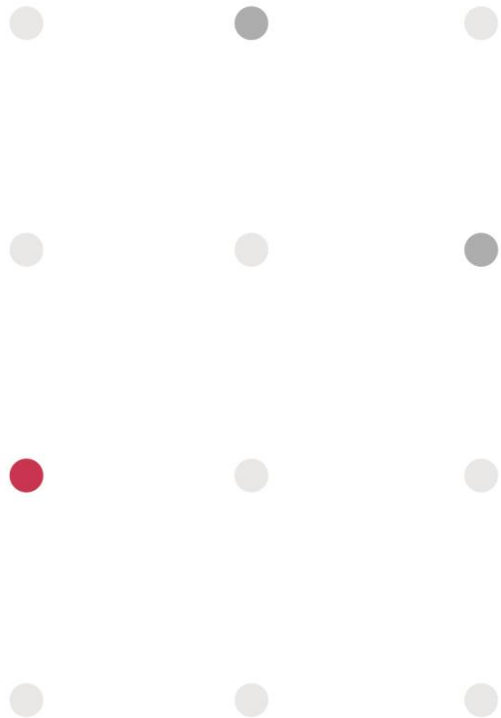


PSA

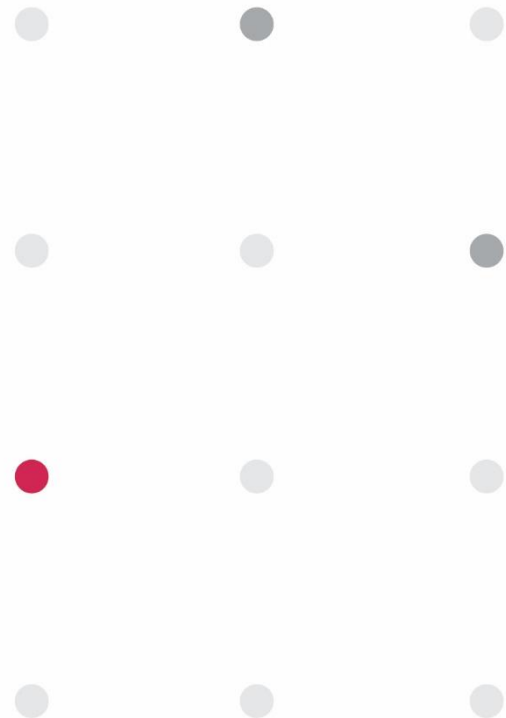
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



70ma i DR5400 Antenna Test Report

Presented by
Li_Wang, R&D

Checked by
Jack_tang, R&D

Last updated in 05. 16, 2025

INPAQ Technology Co., Ltd.

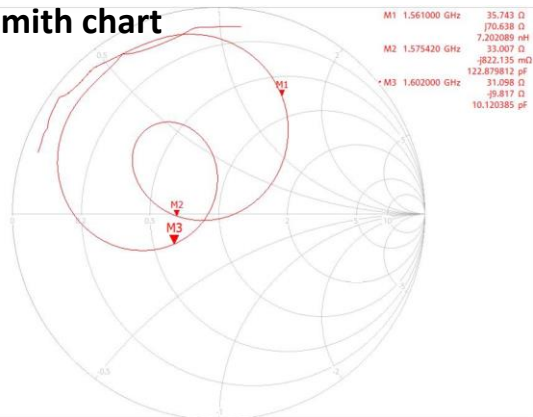
Version	Date	STATUS
A0	2025.05.16	初次调试

GNSS ANTENNA PLACEMENT & OVERVIEW



GNSS ANTENNA PASSIVE PERFORMANCE

Smith chart



Return loss



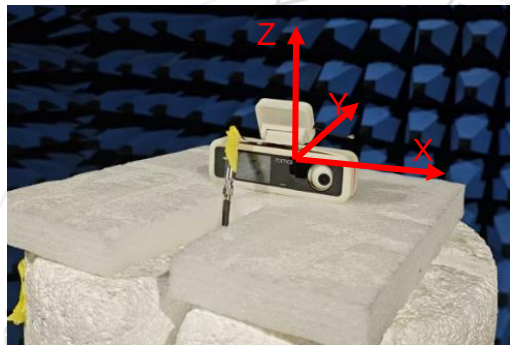
Peak Gain & Efficiency

Frequency (MHz)	Peak Gain(dB)	EFF(%)	上半球效率	右旋效率
1558	-2.30	22.32	14.11	13.85
1559	-1.91	24.40	15.43	15.05
1560	-1.49	26.88	17.01	16.48
1561	-1.08	29.64	18.77	18.05
1562	-0.67	32.67	20.71	19.76
1563	-0.29	35.96	22.82	21.60
1564	0.08	39.43	25.04	23.53
1573	1.14	54.13	34.26	30.39
1574	1.06	53.89	34.10	29.98
1575	0.95	53.40	33.81	29.43
1575.42	0.90	52.91	33.41	29.10
1576	0.88	52.37	33.09	28.65
1577	0.84	51.37	32.51	27.84
1578	0.78	50.27	31.86	27.00
1599	0.64	52.04	32.90	31.78
1600	0.59	51.55	32.42	32.27
1601	0.45	50.14	31.36	32.14
1602	0.19	47.70	29.66	31.28
1603	-0.20	44.38	27.43	29.73
1604	-0.68	40.43	24.84	27.62
1605	-1.24	36.19	22.10	25.17

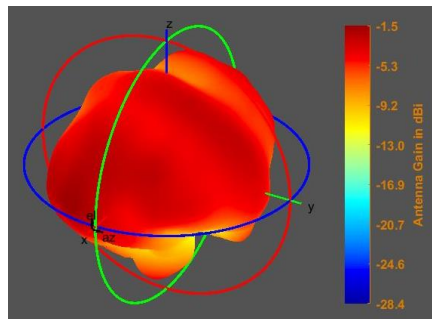
GNSS ANTENNA PASSIVE PERFORMANCE

Antenna Radiation Pattern

测试环境

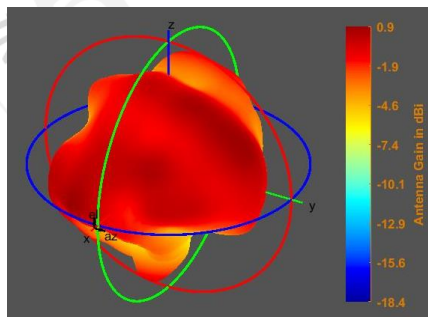


@1561MHz

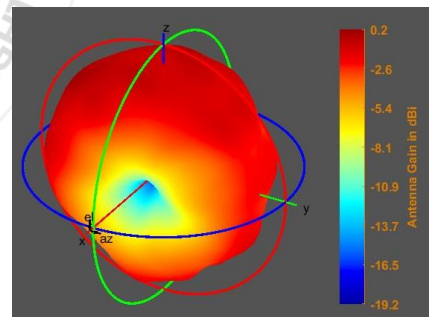


PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.

@1575.42MHz



@1602MHz



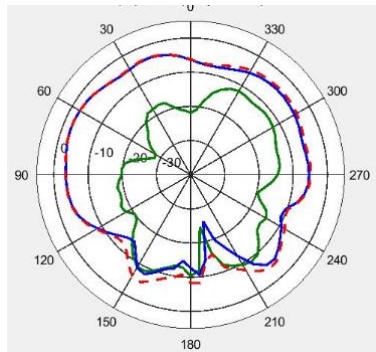
WE CONNECT WE PROTECT **PSA**

GNSS ANTENNA PASSIVE PERFORMANCE

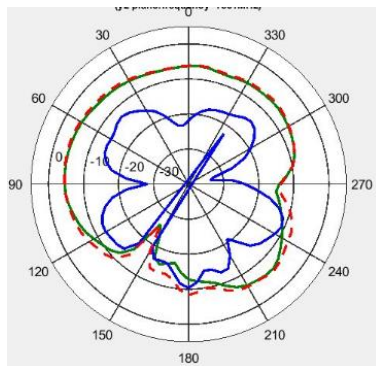
Antenna Radiation Pattern

@1561MHz

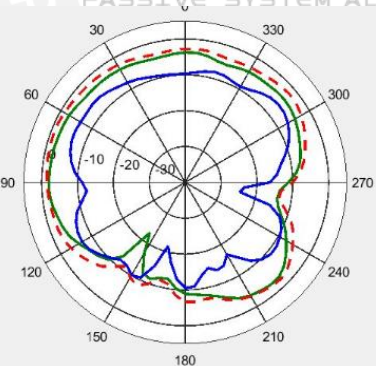
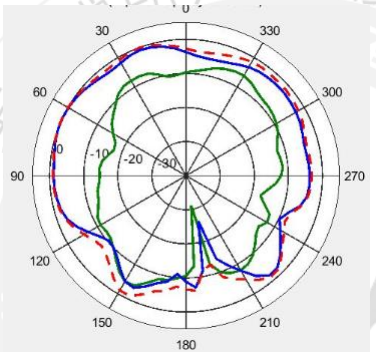
XZ



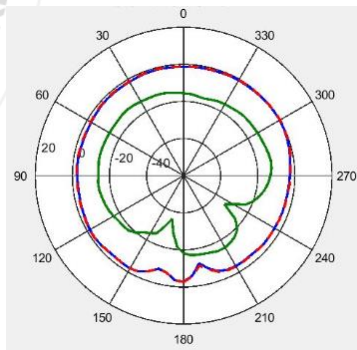
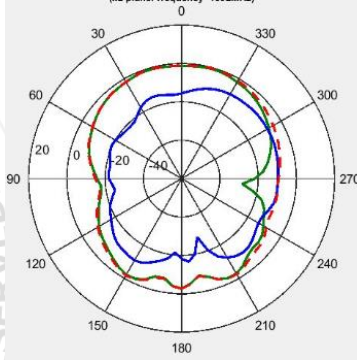
YZ



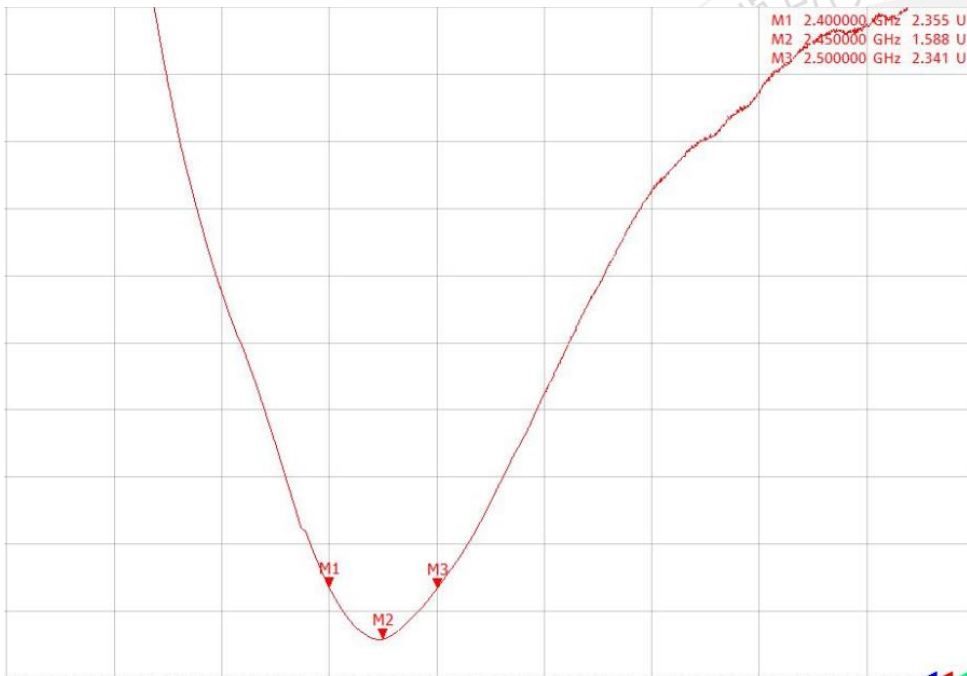
@1575.42MHz



@1602MHz



BT ANTENNA PASSIVE PERFORMANCE

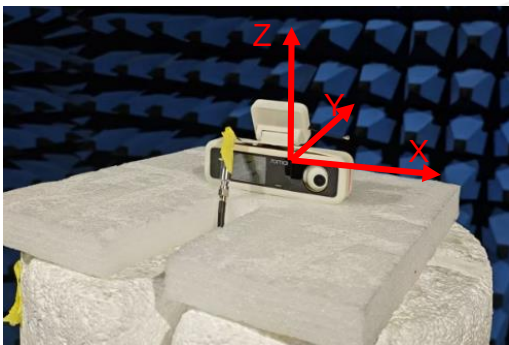


Peak Gain & Efficiency

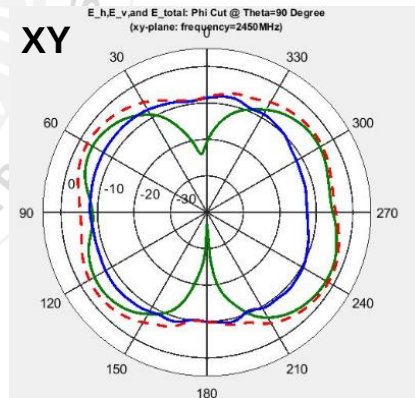
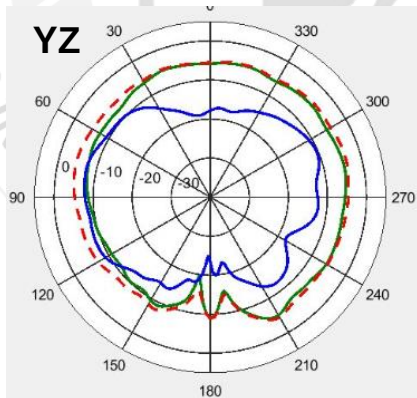
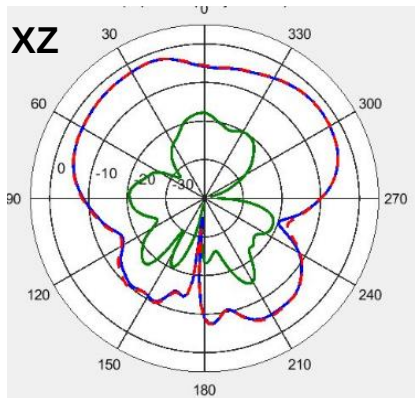
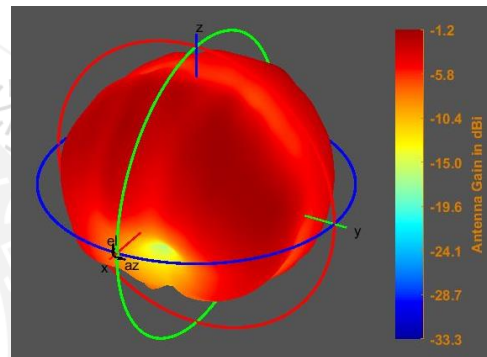
Frequency (MHz)	Peak Gain(dB)	EFF(%)
2400	-2.18	30.35
2410	-1.70	32.14
2420	-1.16	36.22
2430	-1.14	37.13
2440	-1.27	36.28
2450	-1.24	37.16
2460	-1.13	37.27
2470	-1.08	38.42
2480	-1.17	36.63
2490	-1.28	35.22
2500	-1.39	32.32

Antenna Radiation Pattern

测试环境



@2.45GHz



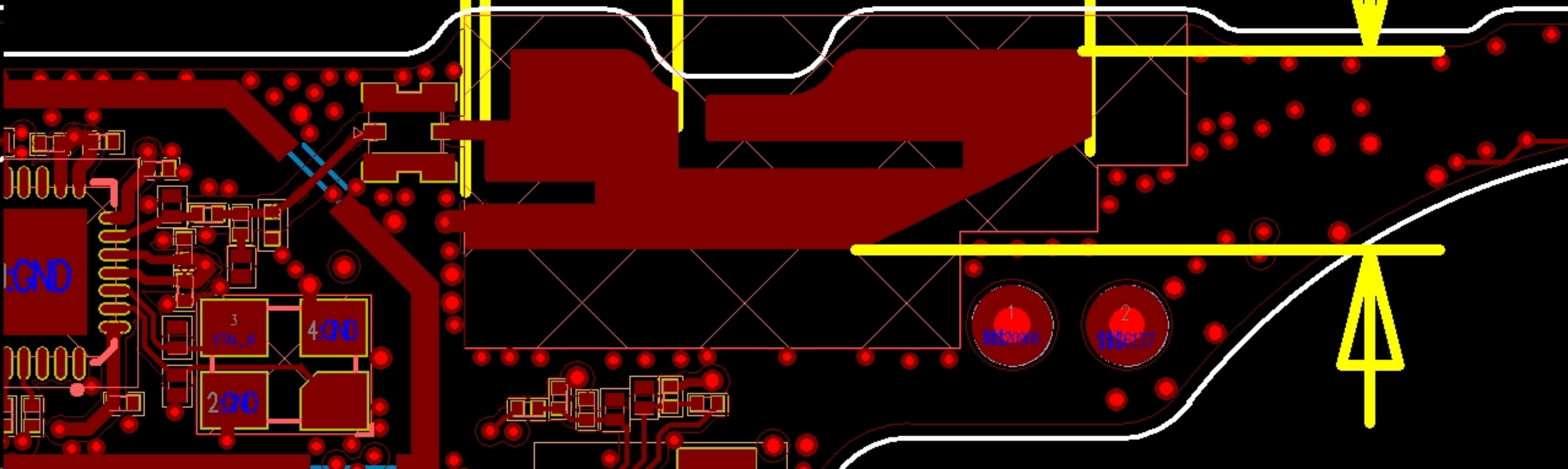
4.3mm



13.8mm



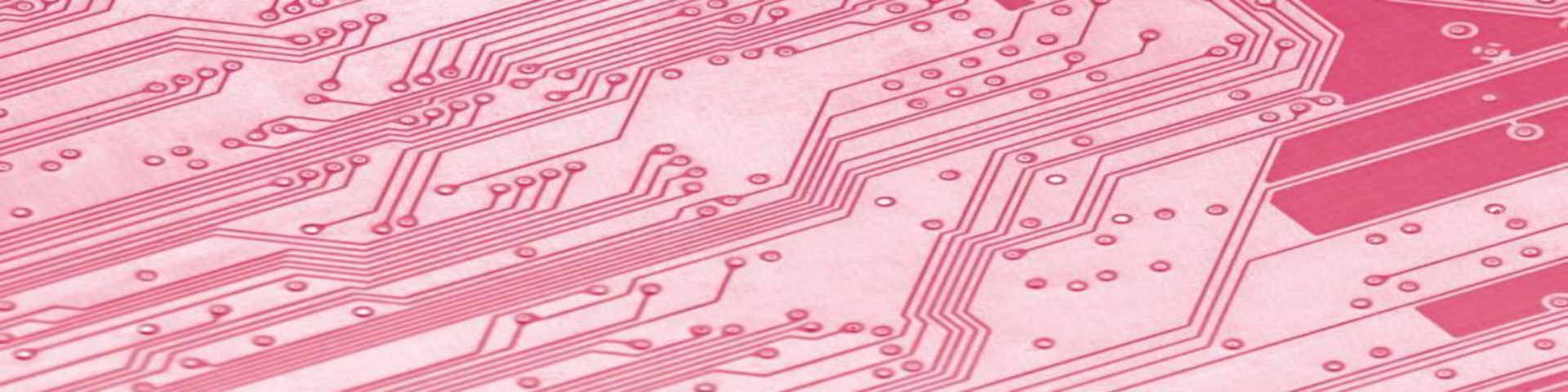
4.4mm



- GNSS无源测试数据

Frequency (MHz)	Peak Gain(dB)	Efficiency(%)	上半球效率	右旋效率
1561	-1.08	29.64	18.77	18.05
1575.42	0.90	52.91	33.41	29.10
1602	0.19	47.70	29.66	31.28

- BT天线平均效率约为35%



Title for Image (above image could be replaced)

Content Details

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.

Thank you

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