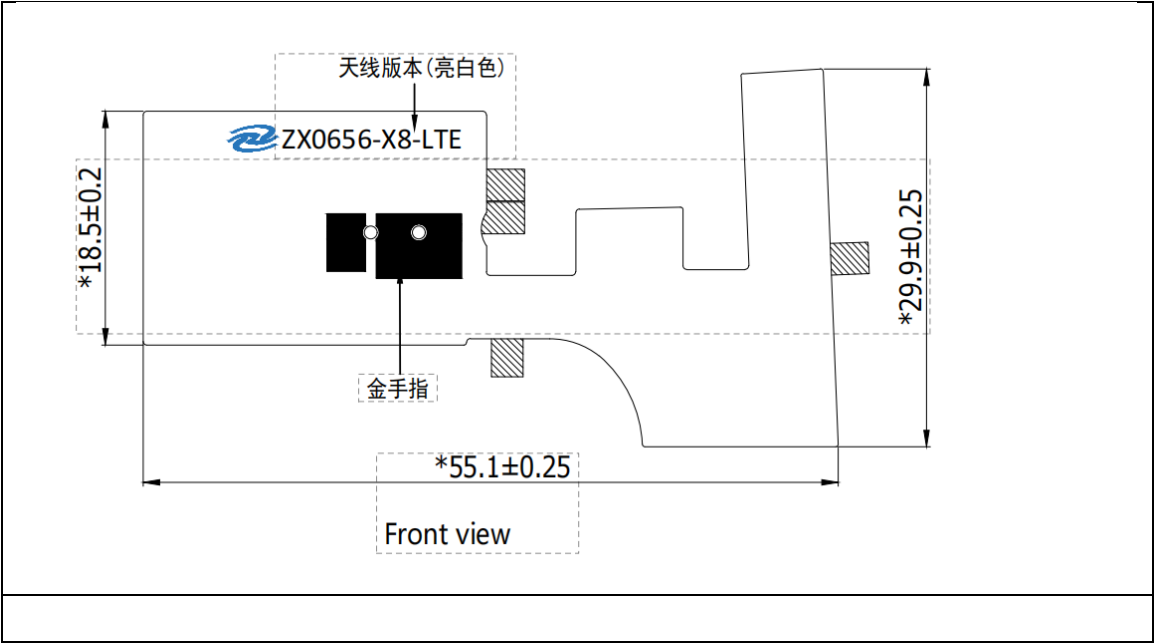


Company Letter Head

Antenna Frequency Range	690MHz-960MHz 1710MHz-2700MHz
Antenna Input Power Limitation	/
Antenna Peak Gain	2.22
Antenna Dimension (LxHxW)	55.1*29.9mm
Manufacturer	Shenzhen Vanpowers Intelligent Technology Co., Ltd
Address	901A9, No. 6, Kangli City, No. 66, Pingji Avenue, Lilang, Nanwan, Longgang, Shenzhen, China

Antenna Photo



Company Letter Head

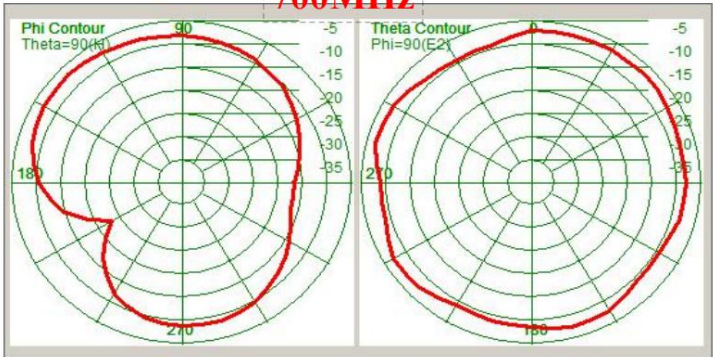
Antenna Pattern/Gain Measurement data/Table:

LTE-Passive Data

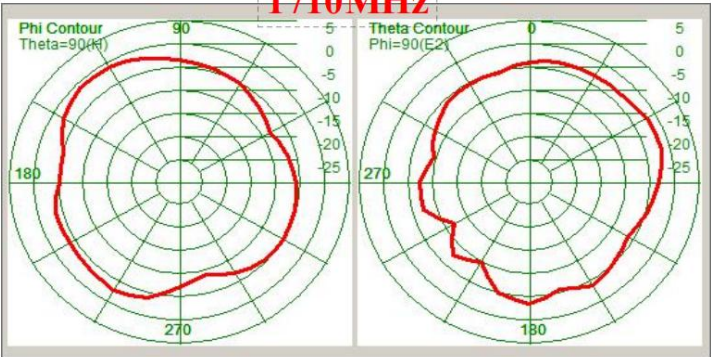
Freq.(MHz)	700	740	780	820	860	900	940	960	1710
Gain(dBi)	-5.74	-6.31	-3.96	-1.11	-1.13	-3.2	-1.4	-1.68	0.06
Eff.%	12.3%	11.3%	19.2%	27.6%	34.1%	24.4%	30.6%	28.8%	38.4%
Freq.(MHz)	1750	1790	1830	1870	1910	1950	1990	2030	2070
Gain(dBi)	0.58	0.61	0.86	0.94	0.96	-0.43	1.43	1.29	1.63
Eff.%	40.1%	42.0%	39.7%	41.9%	39.8%	32.7%	36.5%	35.4%	36.1%
Freq.(MHz)	2110	2150	2170	2300	2400	2500	2600	2700	
Gain(dBi)	2.22	2.24	1.79	0.62	1.12	1.44	0.06	2.06	
Eff.%	43.0%	46.6%	45.6%	38.4%	46.7%	51.2%	37.0%	48.6%	

Radiation patterns:2D

700MHz

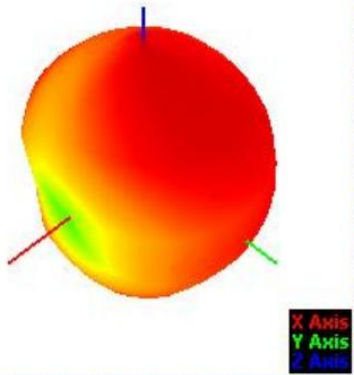


1710MHz

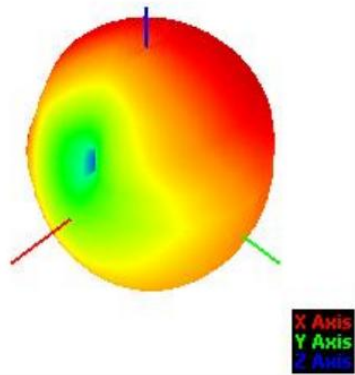


Radiation patterns:3D

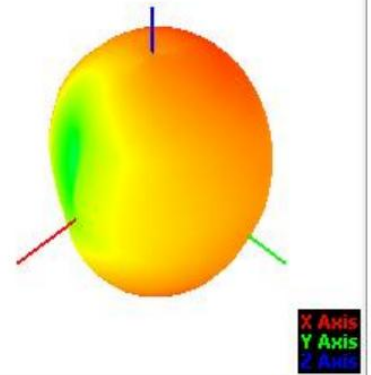
700.00MHz@T45P45



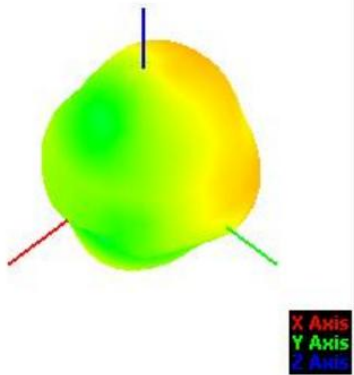
860.00MHz@T45P45



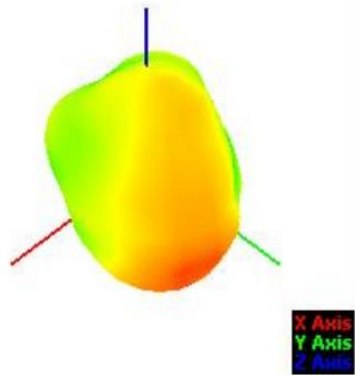
960.00MHz@T45P45



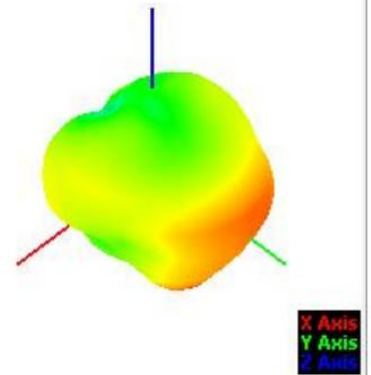
1710.00MHz@T45P45



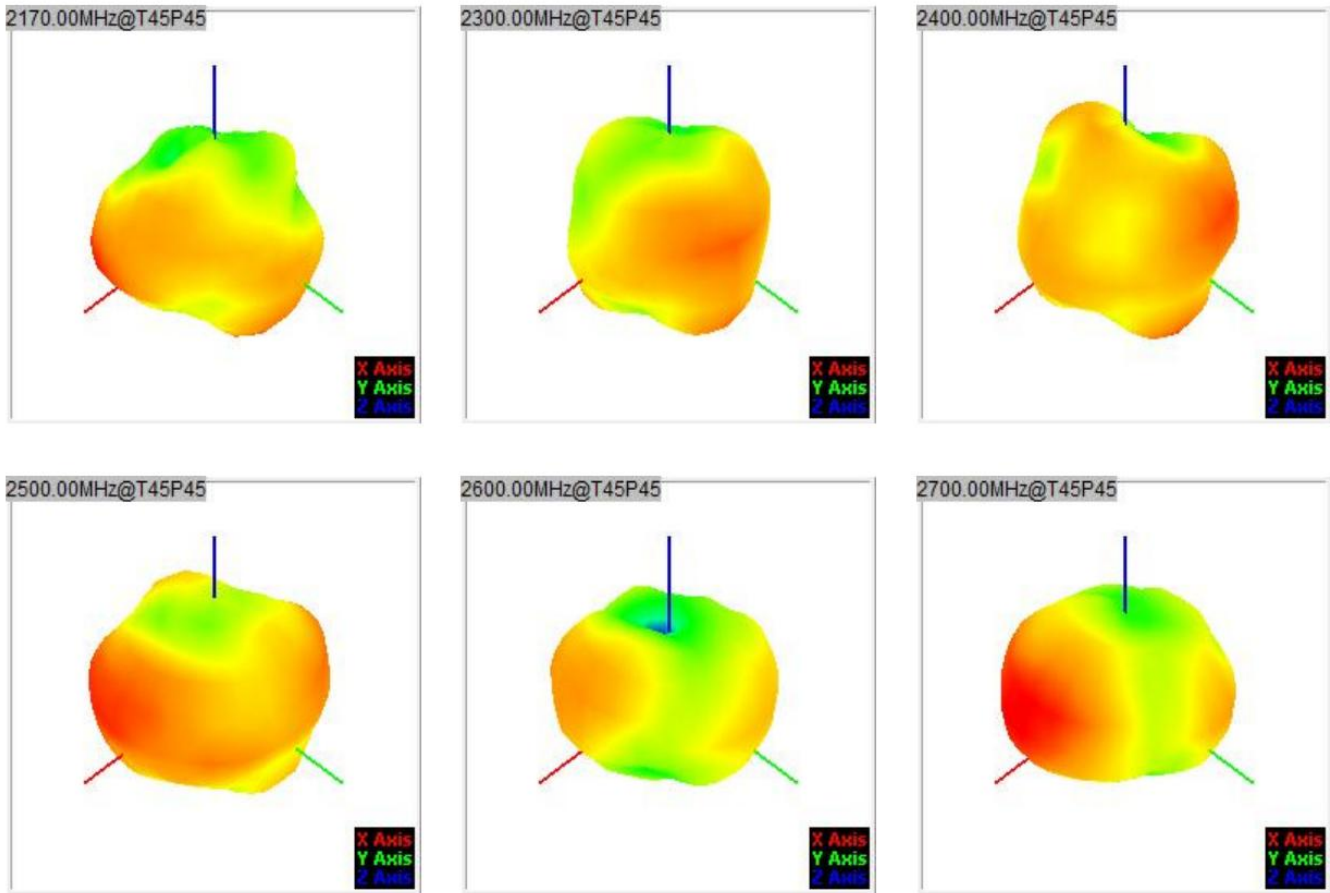
1870.00MHz@T45P45



2070.00MHz@T45P45



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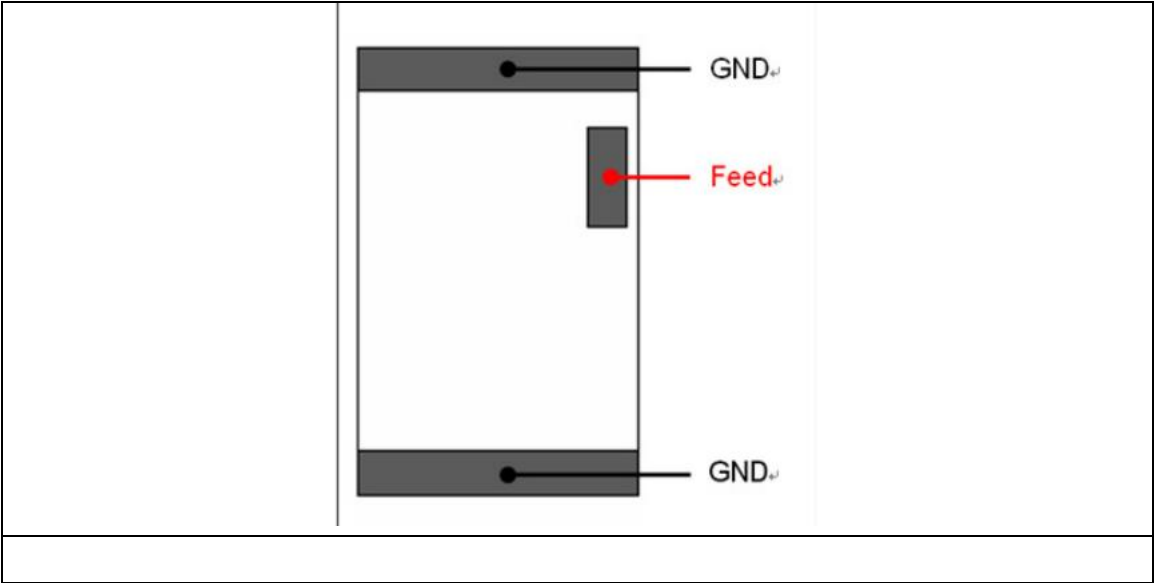


Antenna Pattern/Measurement data

Address	No. 59-12, Lane 9, Dacuoli, Zhunan Town, Miaoli County
Manufacturer	INPAQ Taiwan
Antenna Type	Chip Antenna
Antenna Model	Chip ANTENNA FOR BT
Antenna Part Number	/
Antenna Frequency Range	2400MHz-2500Mhz
Antenna Input Power Limitation	/
Antenna Peak Gain	1.37dBi
Antenna Dimension (LxHxW)	5.2 x 3.7 x 0.7mm

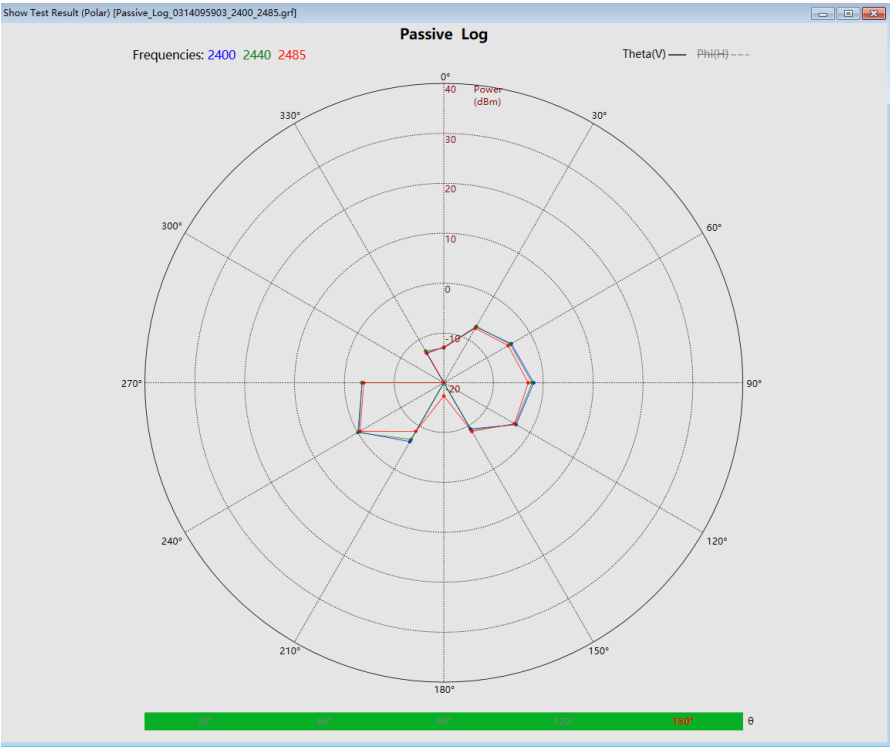
Antenna Photo

Company Letter Head



Antenna Pattern/Gain Measurement data/Table:

Company Letter Head



Pattern Explorer - [D:\GTS DUT\GTS\Passive_Log_0314095903_2400_2485.grf]

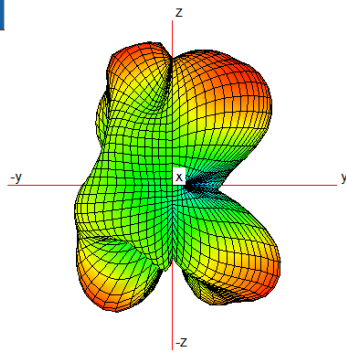
File Window Tools Help

Data3D Data List Analysis Template

Frequency: 2400

Theta
Azimuth: 0
Elevation: 0
Roll: 0

Zoom Scale



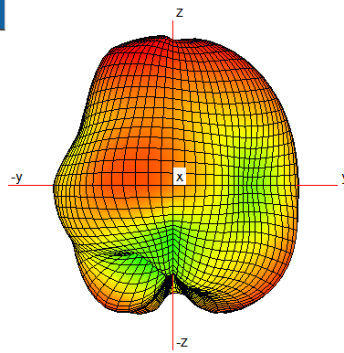
Phi
Azimuth: 0
Elevation: 0
Roll: 0

Zoom Scale



Total
Azimuth: 0
Elevation: 0
Roll: 0

Zoom Scale



Company Letter Head

测试频段	测试频率	Efficiency-DB	Efficiency-%	Gain(dBi)
PASSIVE	2400	-3.35028645	46.23505249	0.763504216
PASSIVE	2405	-3.277505801	47.01640513	0.854552855
PASSIVE	2410	-3.192997586	47.94024414	0.952677933
PASSIVE	2415	-3.118185557	48.77322177	1.008957846
PASSIVE	2420	-3.066255799	49.35991692	1.02358882
PASSIVE	2425	-3.044455321	49.60831407	1.011976728
PASSIVE	2430	-3.012021526	49.98018363	1.048320099
PASSIVE	2435	-2.973494889	50.42553459	1.114210677
PASSIVE	2440	-2.91208115	51.14366951	1.235166758
PASSIVE	2445	-2.829935916	52.12024018	1.351136954
PASSIVE	2450	-2.788919173	52.61481924	1.37253674
PASSIVE	2455	-2.791399076	52.58478377	1.349915934
PASSIVE	2460	-2.856064705	51.80760663	1.310611467
PASSIVE	2465	-2.939003155	50.82760948	1.265987782
PASSIVE	2470	-3.024587457	49.83577935	1.203326788
PASSIVE	2475	-3.057901669	49.45495751	1.171663556
PASSIVE	2480	-3.061831973	49.41022171	1.139964504
PASSIVE	2485	-3.076642641	49.24200591	1.084903289

Antenna Pattern/Measurement data