

APPROVAL SHEET

Dipole ANTENNA

2 / 6 GHz Working Frequency

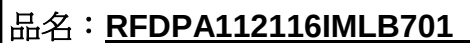
P/N: RFDPA112116IMLB701

Customer :

Customer 's Part No. :

Approval No. :

Issue Date :



History List

PAGE 1 OF 12

品名：RFDPA112116IMLB701

1. Explanation of part number：

RF	DPA	1121	16	I	M	L	B	7	01
Type Code	Product Code	Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1410 Length 143.8mm, Width 10mm	2 digits for cable length e.g.: 00 None Cable	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:∅ 0.81 3:∅ 1.13 6:RG316 7:∅ 1.37 8:RG178	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2 / 6 GHz
VSWR	< 1.67
Return loss	< -12 dB
Operation Temperature	-20℃ ~ +65℃

Gain table

		6G	
		freq	ANT2
2.4G	freq	5925000000	1.818
	ANT2	6225000000	1.787
	2400000000	6525000000	1.828
	2450000000	6825000000	1.195
	2500000000	7125000000	2.291

UNLESS OTHER SPECIFIED TOLERANCES ON：
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE：N/A

UNIT：mm

DRAWN BY：邱瑩鈺

CHECKED BY：詹惠愛

DESIGNED BY：夏振恩

APPROVED BY：陳振榮

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TITLE：RFDPA112116IMLB701

DOCUMENT
NO.

ENS070024570-000821109448

SPEC REV.
A0

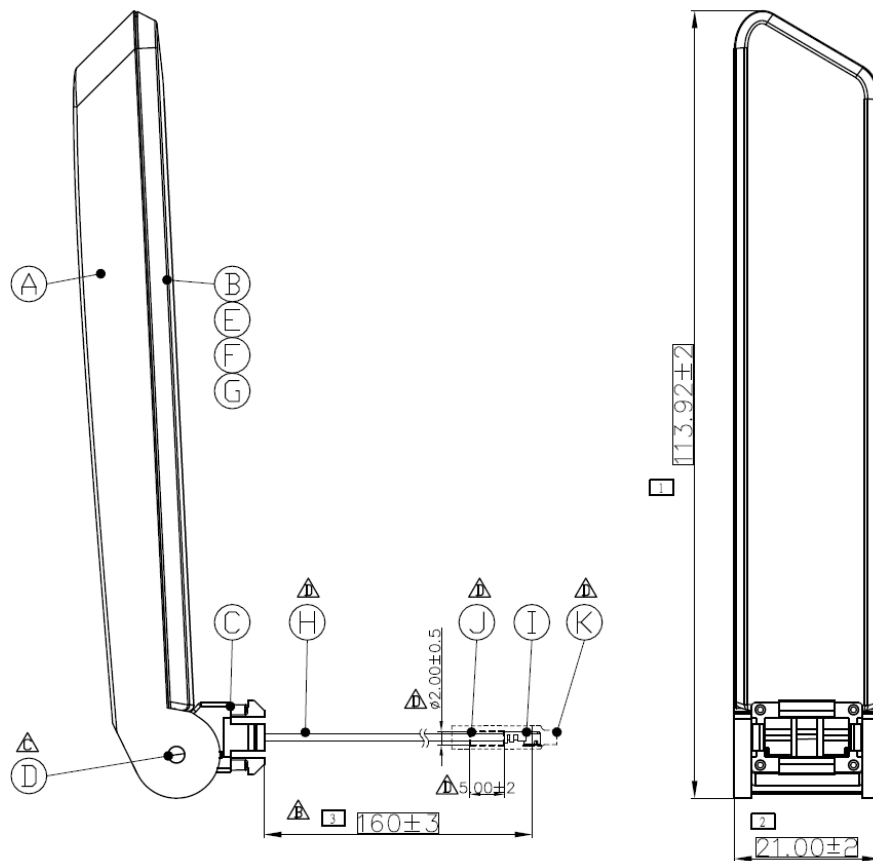
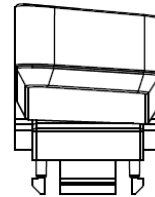
3. Drawing :

ELECTRICAL

Frequency : 2 / 6 GHz



NO	DESCRIPTION	DESCRIPTION ; MAT'L ; Color	QTY	REMARK
A	Antenna Cover-1	ABS ; Black	1	
B	Antenna Cover-2	ABS ; Black	1	
C	Antenna Base	PC+PBT ; Black	1	
D	Rivet	△ Brass ; Black	2	
E	Up Brass Tube	Brass	1	
F	Down Brass Tube	Brass	1	
G	Heat Shrink Tube	Black	1	
H	Cable	(Ø1.37) ; Black △	1	
I	Connector	IPEX ; Gold	1	721215007739
△ J	Heat Shrink Tube	Red	1	
△ K	Safe Sheth	L20mm;Transparent	1	



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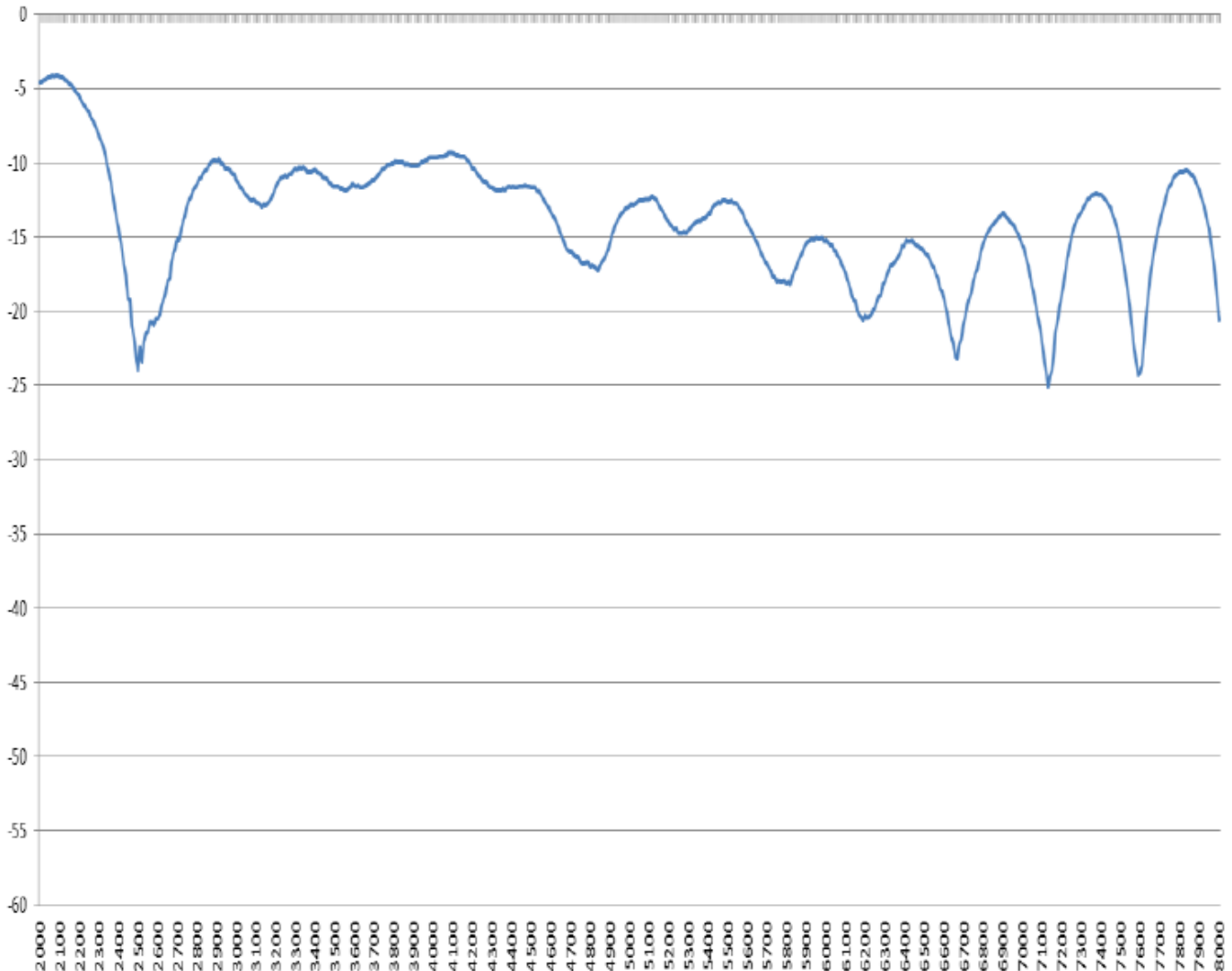
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4. Performance Report :

Test Report

■ ELECTRICAL CHARACTERISTICS

Return Loss



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		Frequency (GHz)		
		2.4	2.45	2.5
ANT-2	ReturnLoss (dB)	-14.363	-19.127	-23.944

		Frequency (GHz)		
		5.92	6.22	6.52
ANT-2	ReturnLoss (dB)	-15.232	-20.378	-16.220

		Frequency (GHz)	
		6.82	7.12
ANT-2	ReturnLoss (dB)	-14.789	-24.060

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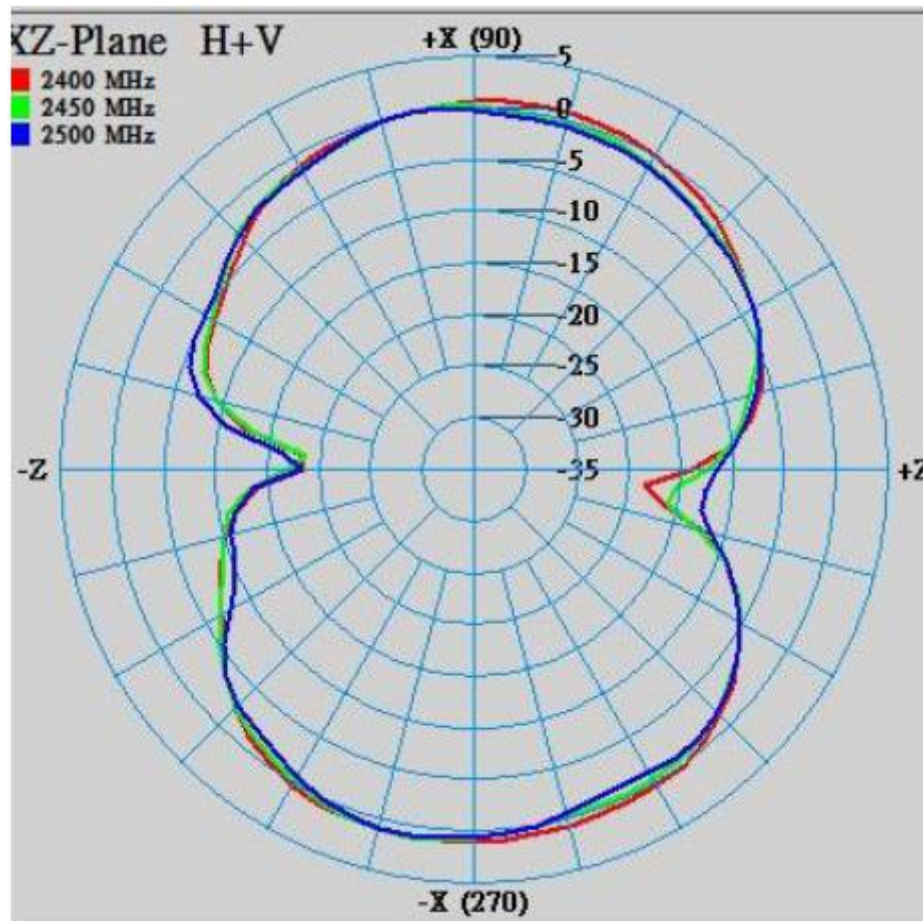
RADIATION PATTERN

2 GHz

X-Z Plane

Phi=0.00deg

Gain . dB



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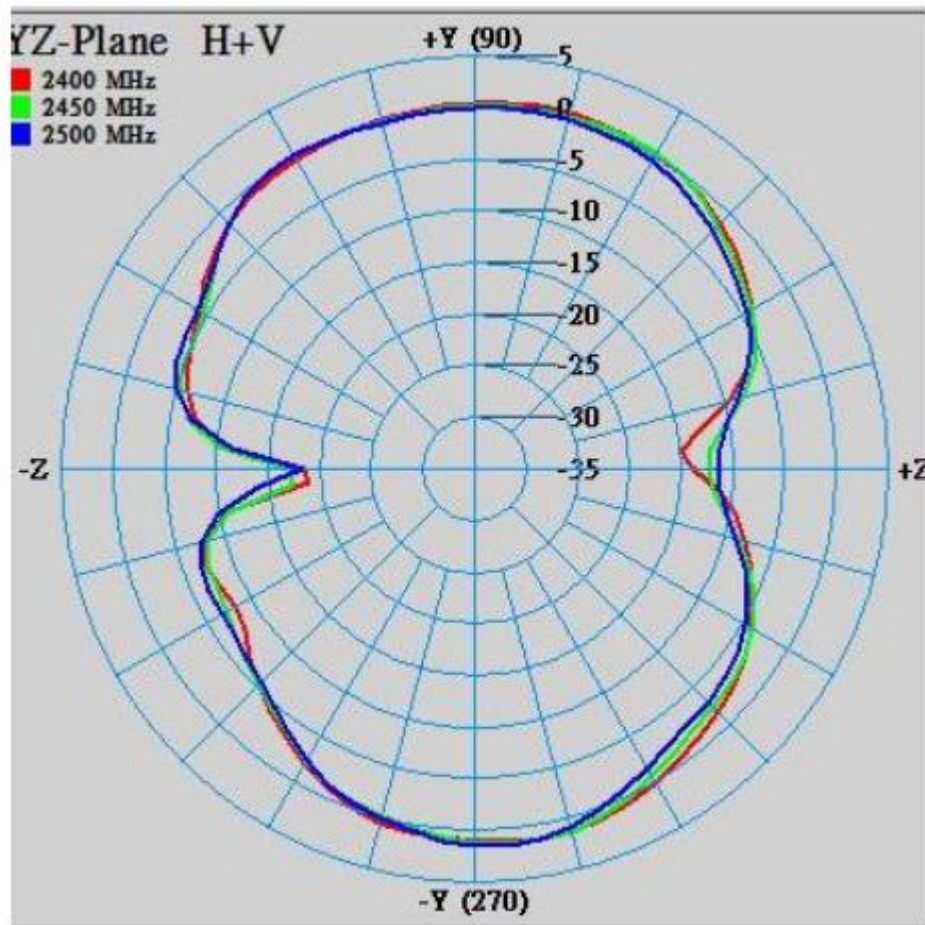
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SPEC REV.
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Y-Z Plane

Phi=90.00deg

Gain . dB



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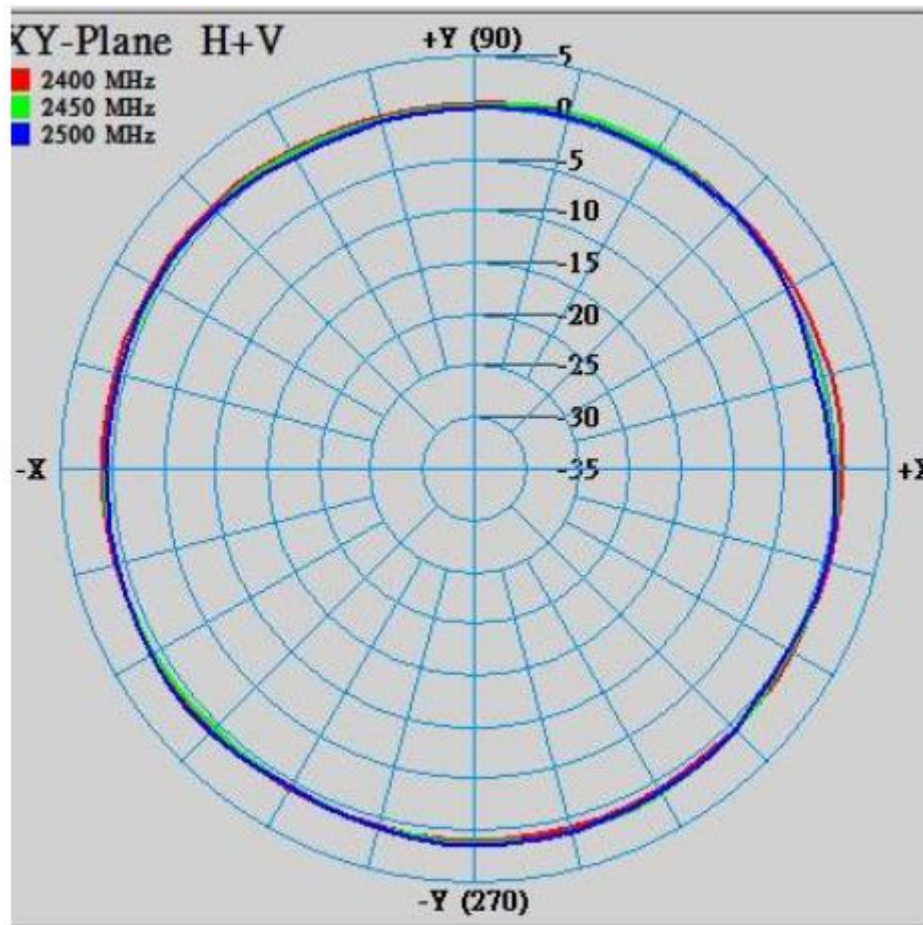
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SPEC REV.
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X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.025	-2.022	1.565	-2.046	1.021	0.716
2450	1.087	-2.444	1.476	-2.163	1.319	0.543
2500	0.924	-2.619	1.602	-2.373	1.509	0.493

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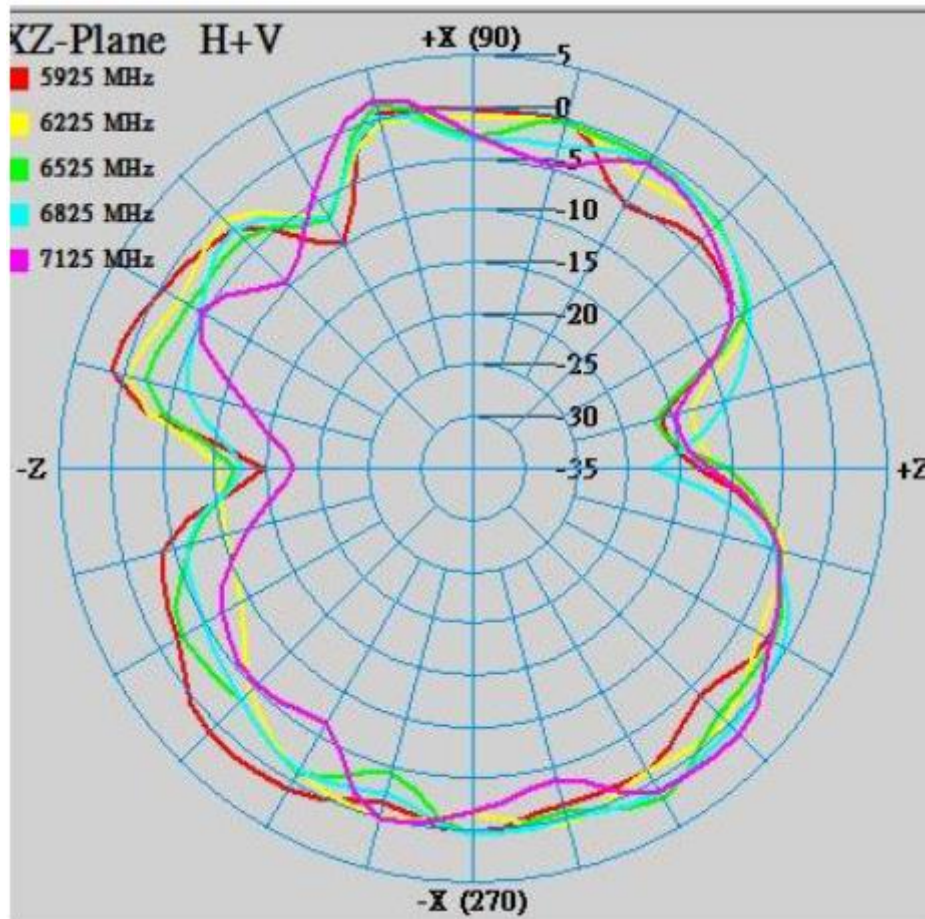
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SPEC REV.
A0

6 GHz

X-Z Plane
Phi=0.00deg

Gain . dB



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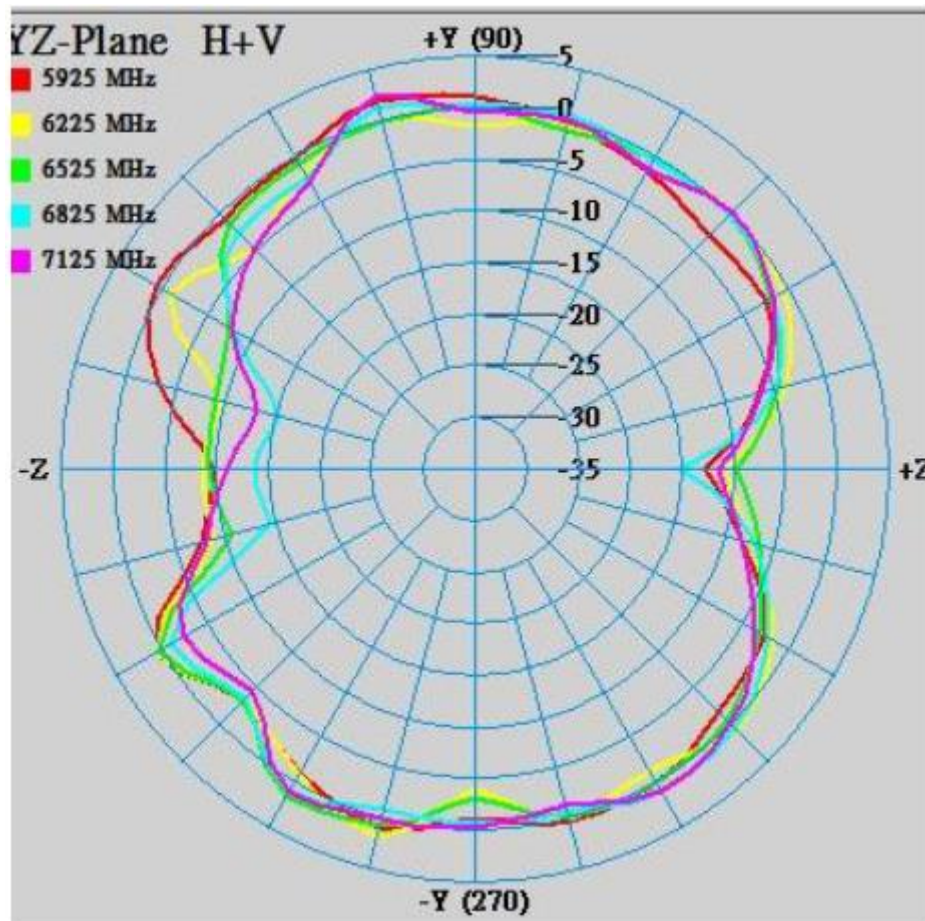
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Y-Z Plane
Phi=90.00deg

Gain . dB



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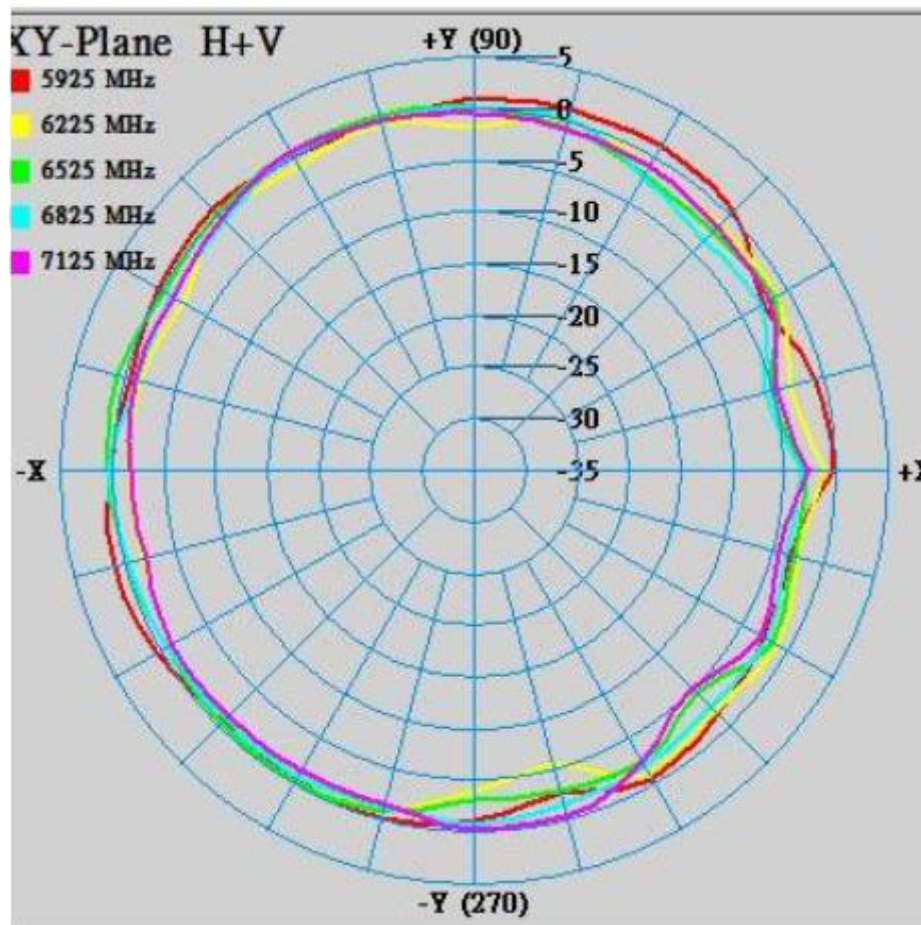
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X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5925	1.206	-1.975	1.818	-1.414	1.187	-0.325
6225	0.479	-2.496	1.787	-1.759	0.069	-1.446
6525	1.828	-2.262	1.425	-1.81	0.697	-1.106
6825	1.006	-2.494	1.195	-1.763	0.396	-1.343
7125	1.956	-3.175	2.291	-1.954	0.442	-1.519

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