

APPROVAL SHEET

Dipole ANTENNA

2 / 6 GHz Working Frequency

P/N: RFDPA112110IMLB701

Customer : _____
Customer 's Part No. : _____
Approval No. : _____
Issue Date : _____

品名：RFDPA112110IMLB701

1. Explanation of part number :


RF	DPA	1121	10	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°C ~ +65°C

Gain table

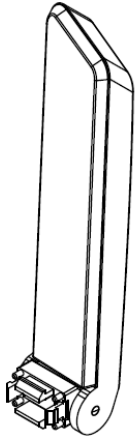
2.4G		6G	
freq	ANT1	freq	ANT1
2400000000	2.047	5925000000	2.416
2450000000	1.681	6225000000	1.789
2500000000	1.696	6525000000	2.327
		6825000000	2.39
		7125000000	1.712

1UNLESS 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 : 詹惠雯	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DESIGNED BY : 夏振恩	APPROVED BY : 陳振榮		
TITLE : RFDPA112110IMLB701		DOCUMENT NO.	ENS070024560-000821109439
			SPEC REV. A0

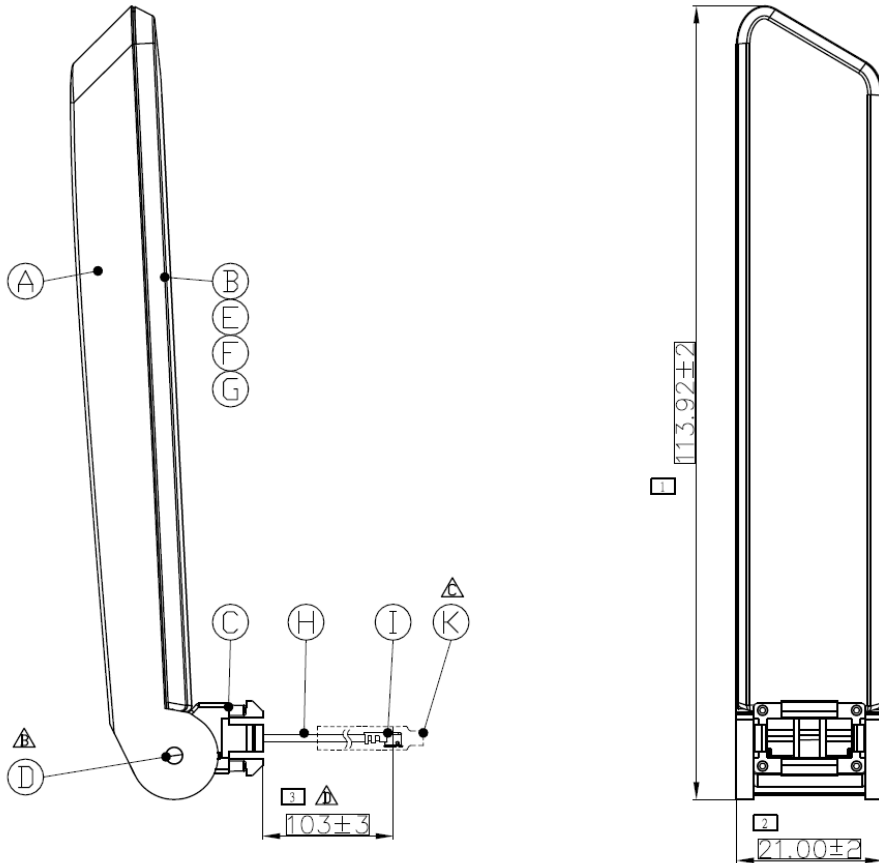
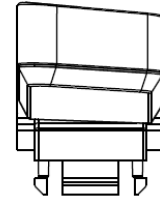
3. Drawing :

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	Safe Shesth	L20mm;Transparent	1	



1UNLESS 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 : 詹惠雯
 DESIGNED BY : 夏振恩 APPROVED BY : 陳振榮

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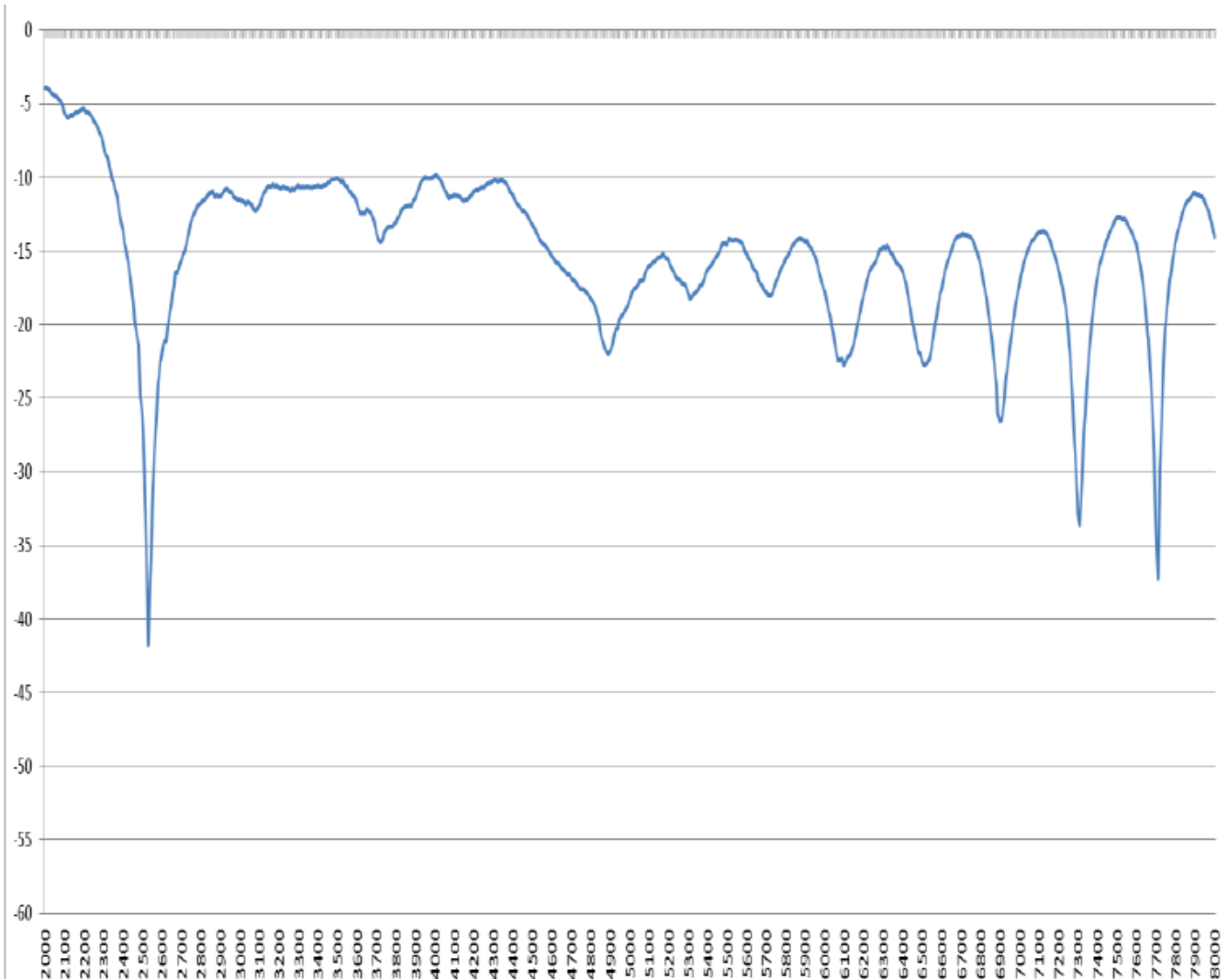
SPEC REV. A0


4. Performance Report :

Test Report

ELECTRICAL CHARACTERISTICS

Return Loss




1UNLESS 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.
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		Frequency (GHz)		
		2.4	2.45	2.5
ANT-1	ReturnLoss (dB)	-13.421	-17.992	-26.102

		Frequency (GHz)		
		5.92	6.22	6.52
ANT-1	ReturnLoss (dB)	-14.643	-16.905	-22.659

		Frequency (GHz)	
		6.82	7.12
ANT-1	ReturnLoss (dB)	-17.574	-13.713

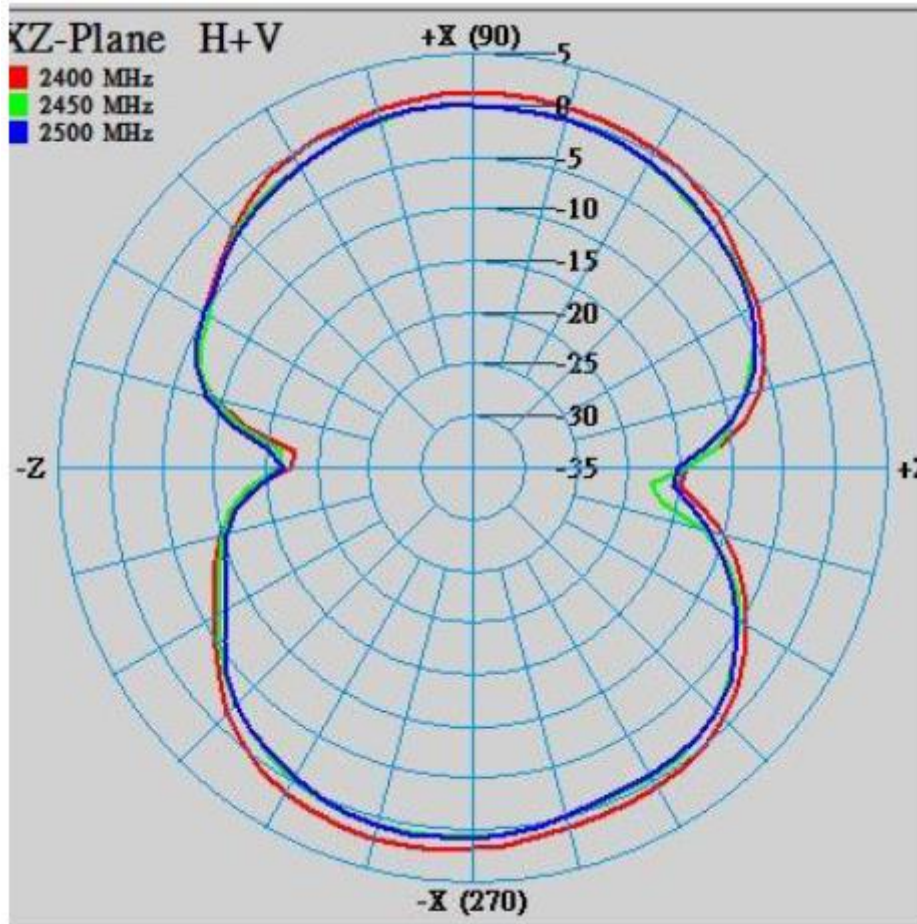
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RADIATION PATTERN

2 GHz

X-Z Plane
Phi=0.00deg

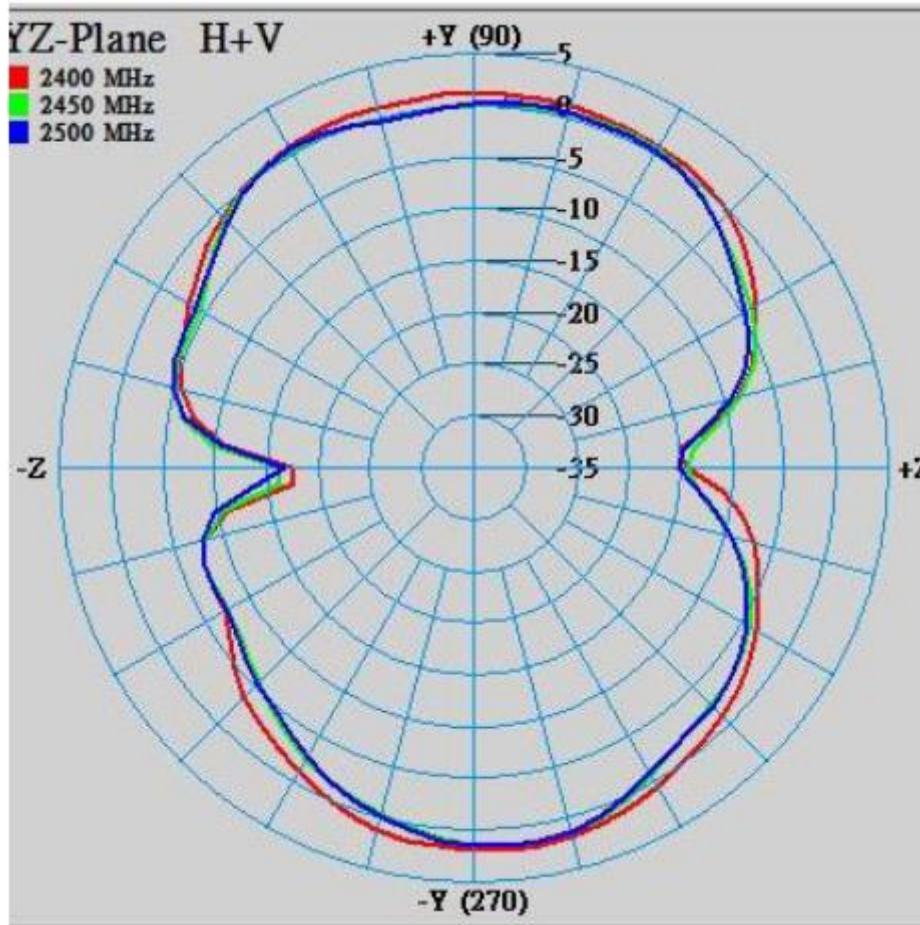
Gain . dB




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Y-Z Plane
Phi=90.00deg

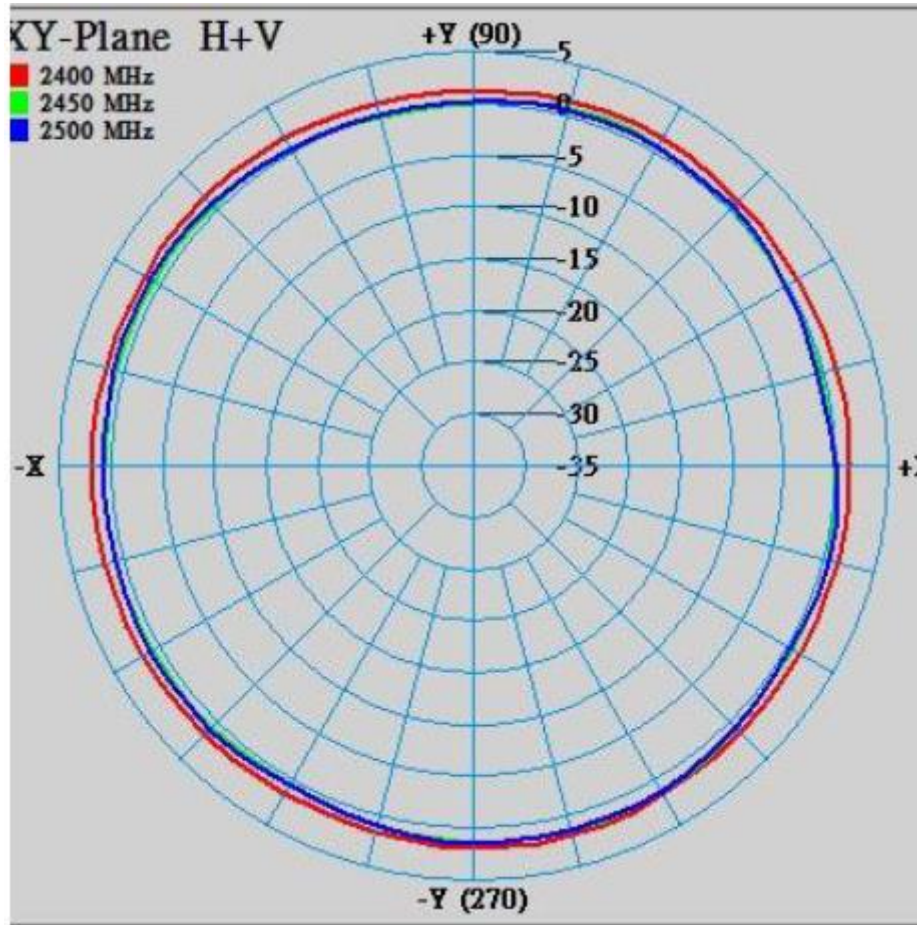
Gain . dB




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X-Y Plane
Theta=90.00deg

Gain . dB



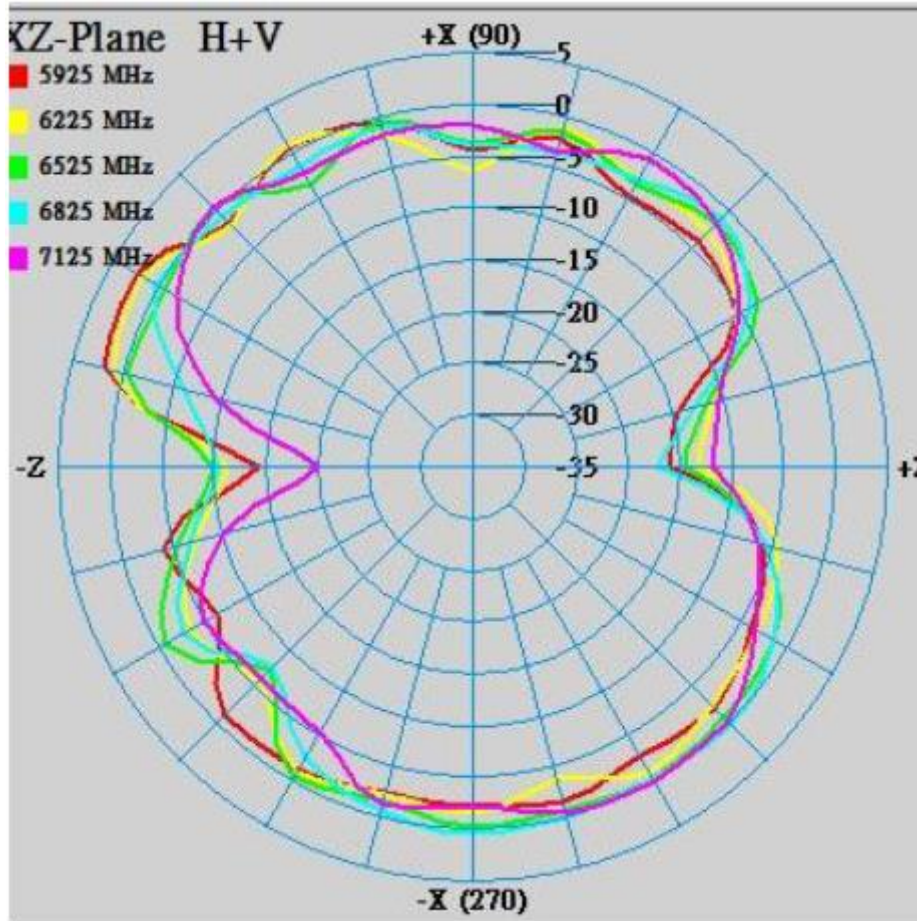
Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	2.047	-1.382	2.002	-1.291	1.938	1.508
2450	0.814	-2.491	1.681	-2.126	1.411	0.554
2500	0.882	-2.502	1.696	-2.161	1.501	0.606


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6 GHz

X-Z Plane
Phi=0.00deg

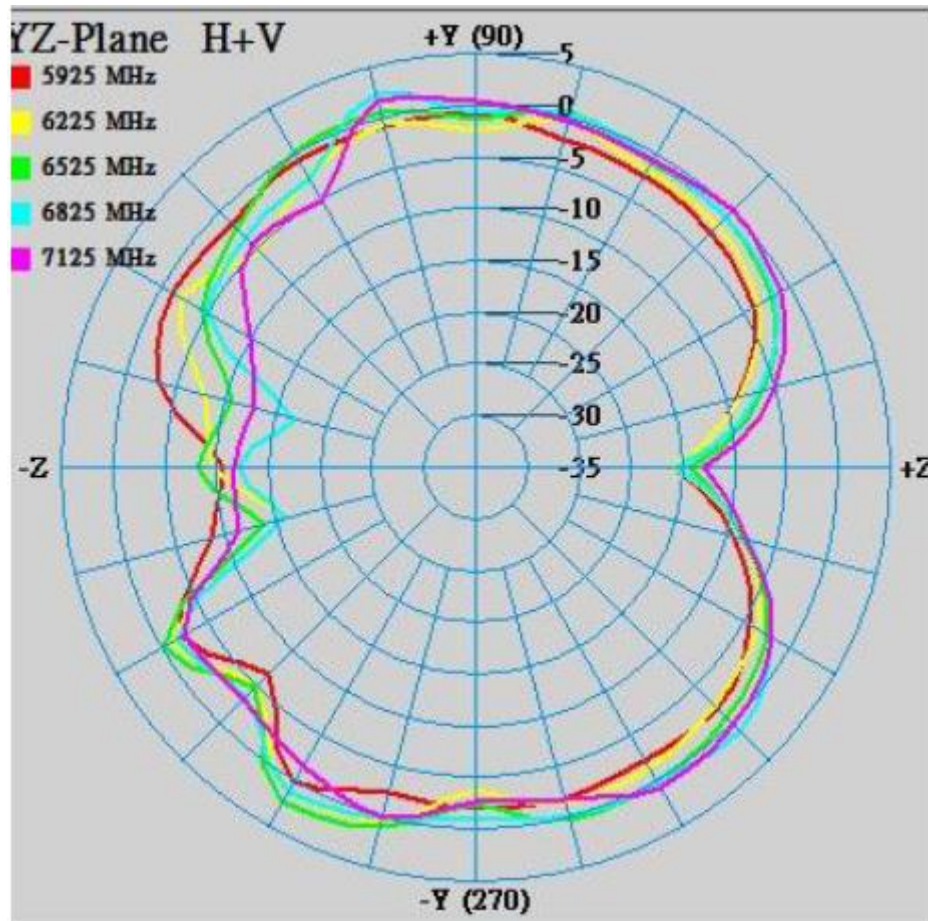
Gain . dB




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Y-Z Plane
Phi=90.00deg

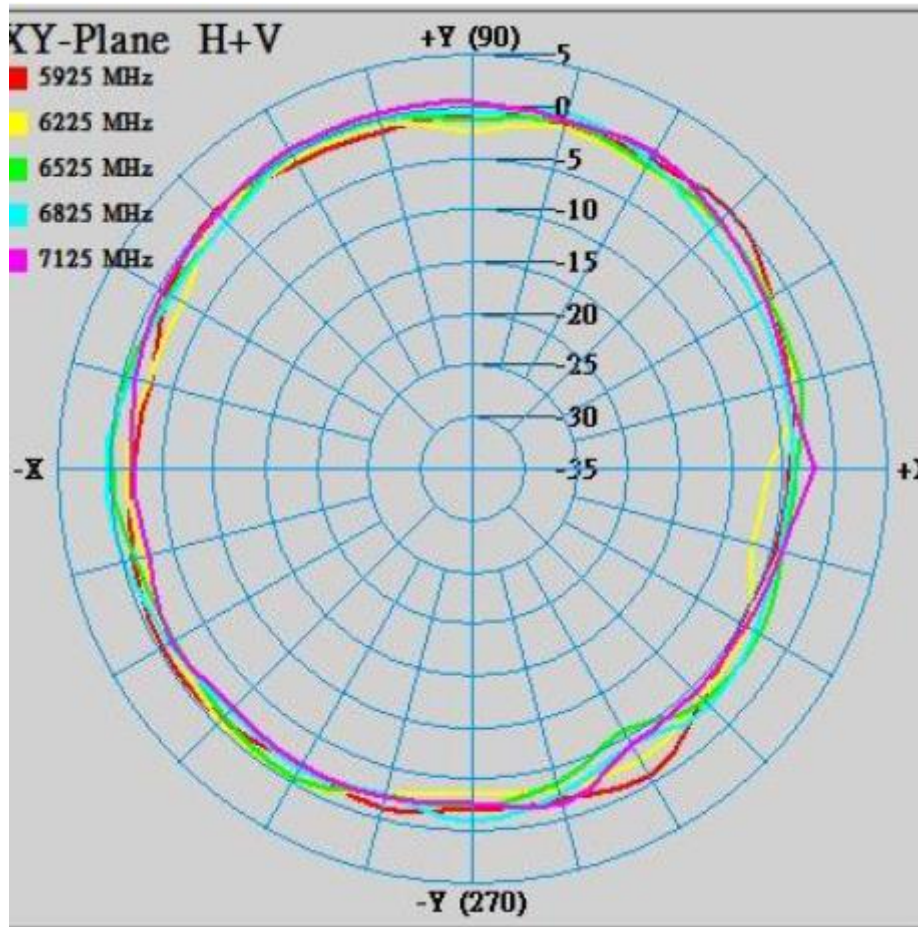
Gain . dB




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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	2.416	-2.413	0.037	-2.936	0.265	-1.558
6225	1.789	-2.544	1.241	-2.850	-0.343	-2.102
6525	0.564	-2.163	2.327	-1.735	0.173	-1.645
6825	0.490	-2.460	2.390	-1.775	0.580	-1.565
7125	0.453	-3.039	1.712	-2.238	0.554	-1.573

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