



料件承認書



SPECIFICATION FOR APPROVAL

Ver.F9

品名 DIPOLE ANTENNA 2T2R WIFI6E SMA

Part Name

華碩料號 14008-02650600

ASUS P/N

供應商料號 LA9RF059-CS-H

Supplier P/N

提出日期 2021/ 01/ 21

Submitted Date



供應商

LUXSHARE PRECISION LIMITED

工廠地址

TEL: +86-0755-66859588

FAX:

核准	工程部	品管部	承辦業務

1. Revision History

[illegible]

Data Sheet

CUSTOMER: ASUS

MODEL NAME: BABY ANT WIFI 6E

CUSTOMER P/N: 14008-02650600

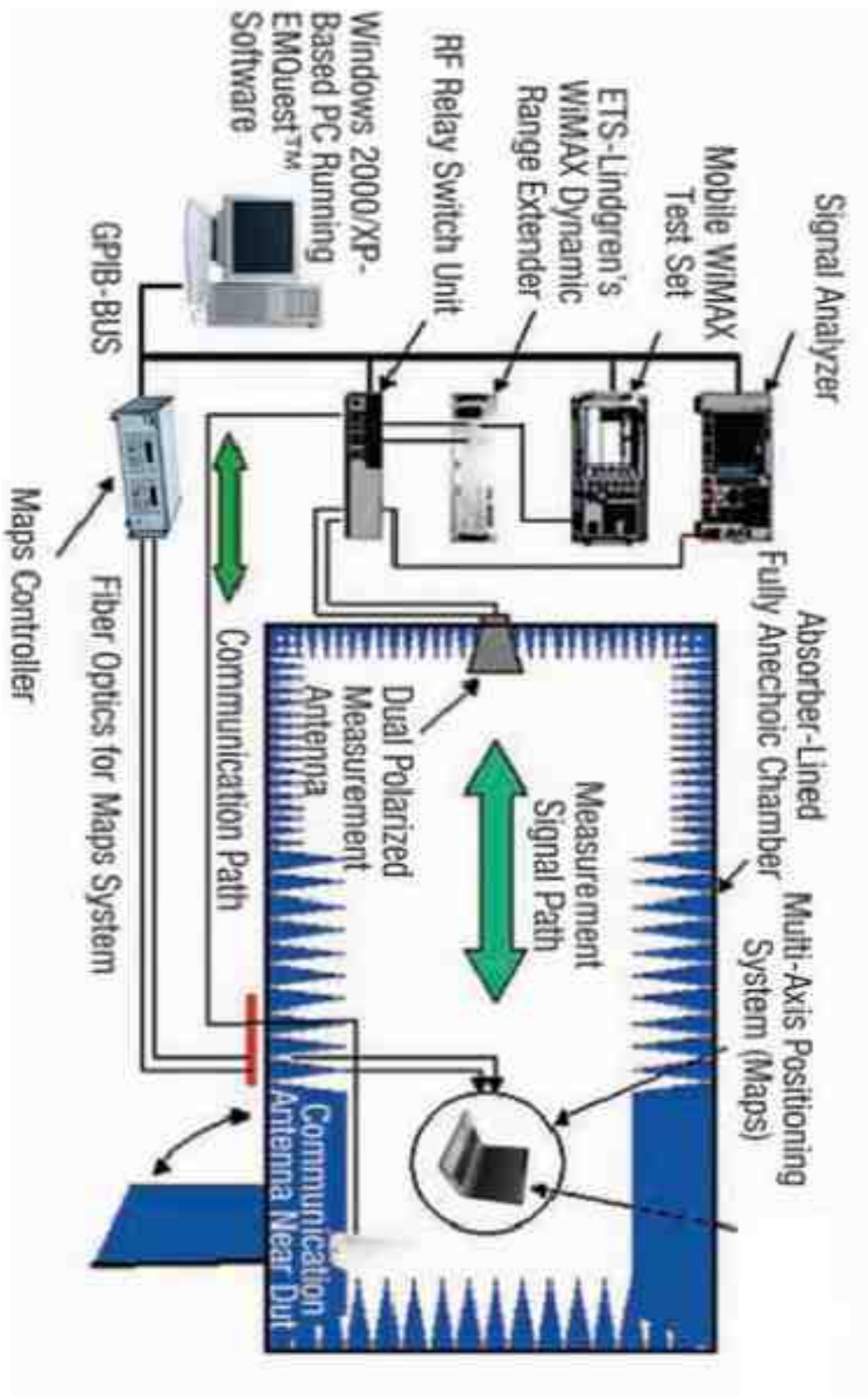
ICT P/N: LA9RF059-CS-H

APPROVED	
MANUFACTURER	CUSTOMER
PREPARED BY:	APPROVED BY:
CHECK BY:	
APPROVED BY:	

Description

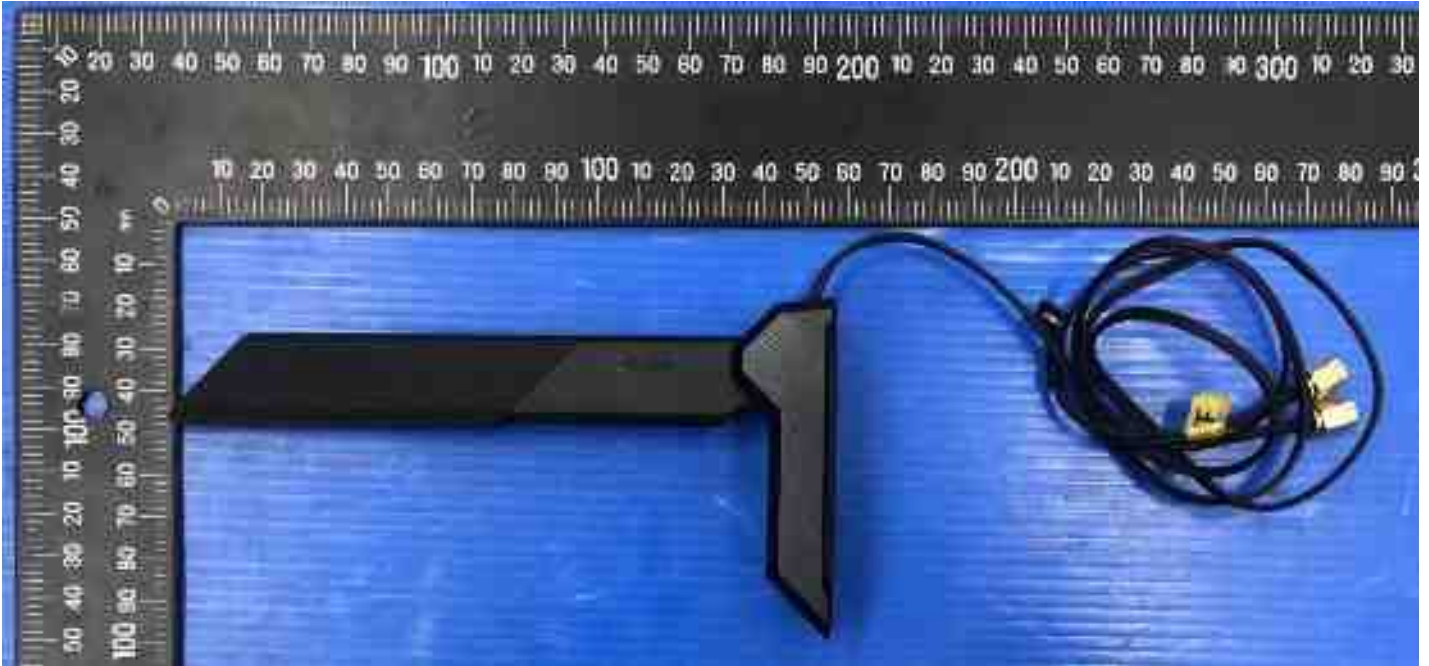
Specifications

Antennas Type	DIPOLE Antenna for WLAN 802.11 a/b/g application		
Connector Type	SMA R/P PLUG		
Cable Type	RF-1.37T/50		
Impedance	50Ω		
Polarization	Linear		
Radiation pattern	Omni-directional		
Frequency Range	WLAN 802.11b/g		2.40~2.50 GHz
	WLAN 802.11a		5.15~5.85 GHz
VSWR	Up Antenna	WLAN 802.11b/g	2.00 Max
		WLAN 802.11a	
	Down Antenna	WLAN 802.11b/g	
		WLAN 802.11a	
Peak gain	Up Antenna	WLAN 802.11b/g	1.23 dBi
		WLAN 802.11a	3.93 dBi
	Down Antenna	WLAN 802.11b/g	-0.1 dBi
		WLAN 802.11a	4.55 dBi
Cable Loss	Up Antenna	WLAN 802.11b/g	1.84 dB
		WLAN 802.11a	4.21 dB
	Down Antenna	WLAN 802.11b/g	1.75 dB
		WLAN 802.11a	3.97 dB
Cable length/Color		WLAN	800mm ,Black



Description

Antenna Picture1



Antenna Picture2



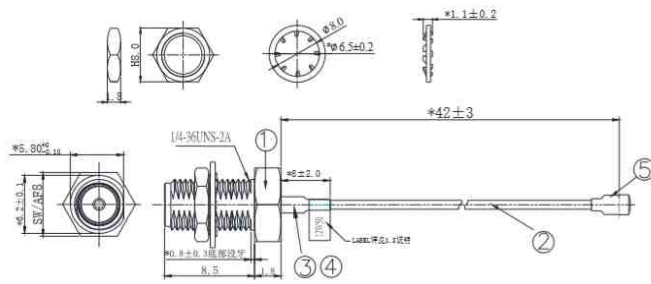
IPEX cable



CNC SMA Jack 0.81 BK 42mm

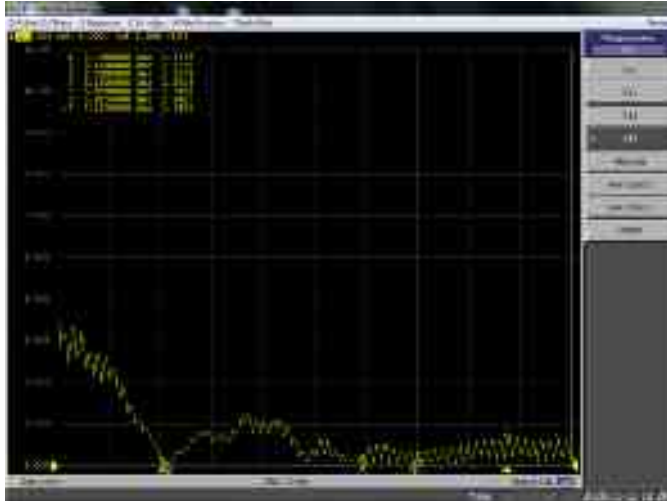
1. Appearance dimension (Unit : mm) :

1.1 尺寸图

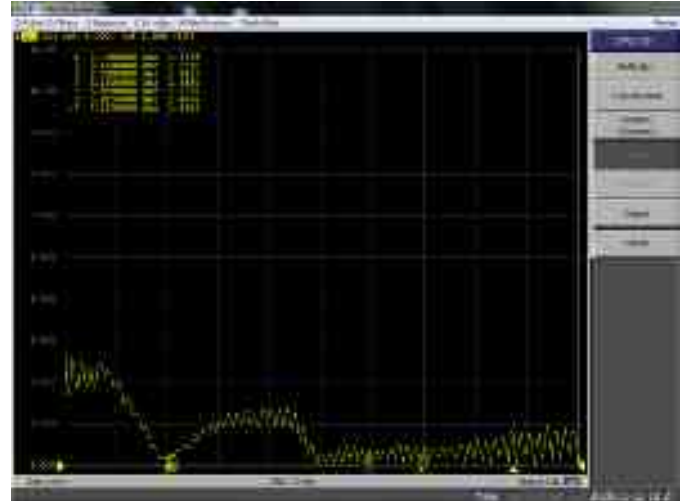


Performance Data

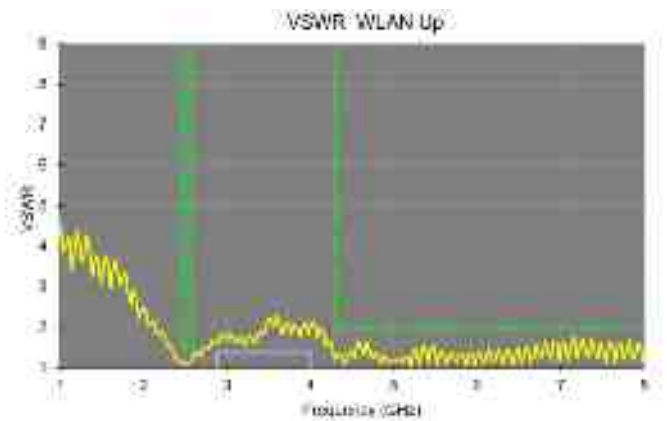
1. VSWR :UP Antenna



Down Antenna



2.SPEC

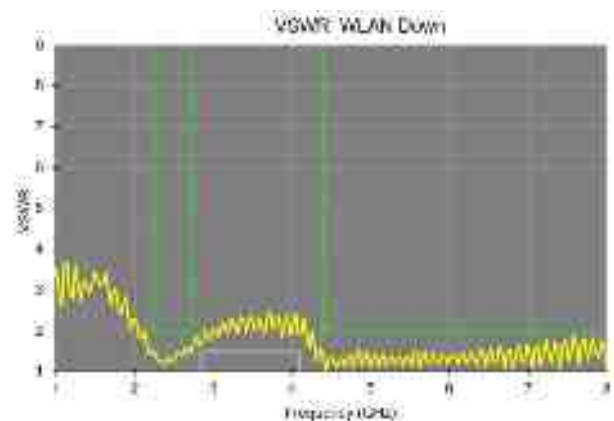


Spec:

2.88 ~ 4.00 GHz > 1.4

2.47 ~ 2.55 GHz < 1.5

4.29 ~ 8.00 GHz < 2.0



Spec:

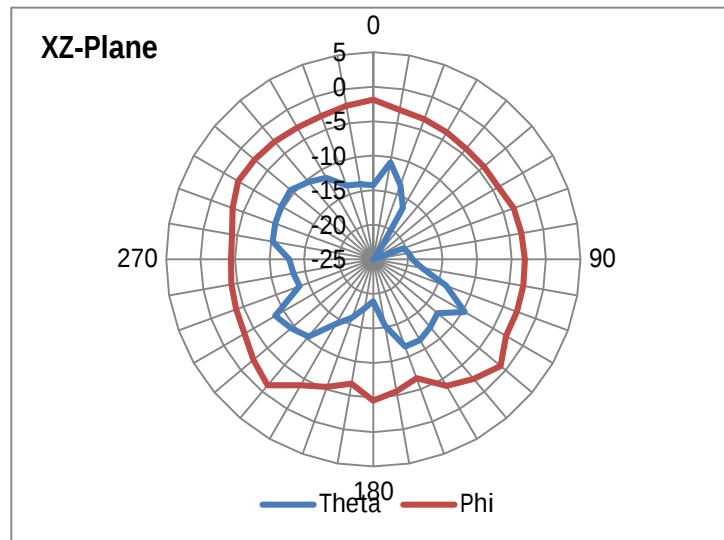
2.84 ~ 4.09 GHz > 1.5

2.25 ~ 2.71 GHz < 2.0

4.40 ~ 8.00 GHz < 2.0

Radiation pattern Up Antenna

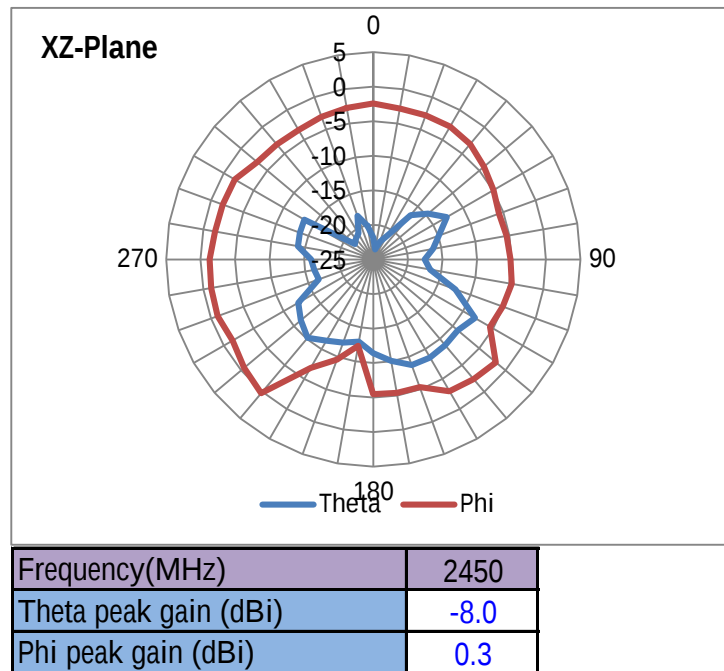
Antenna: 2400MHz



Frequency(MHz)	2400
Theta peak gain (dBi)	-8.6
Phi peak gain (dBi)	-1.0

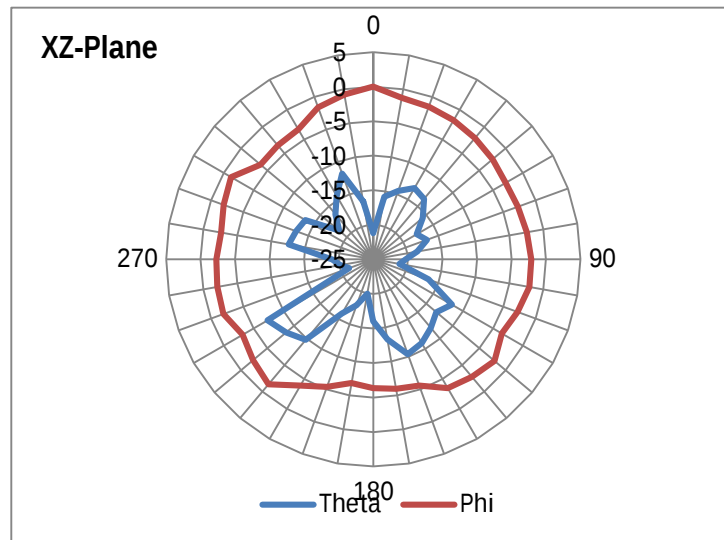
Radiation pattern Up Antenna

Antenna: 2450MHz



Radiation pattern Up Antenna

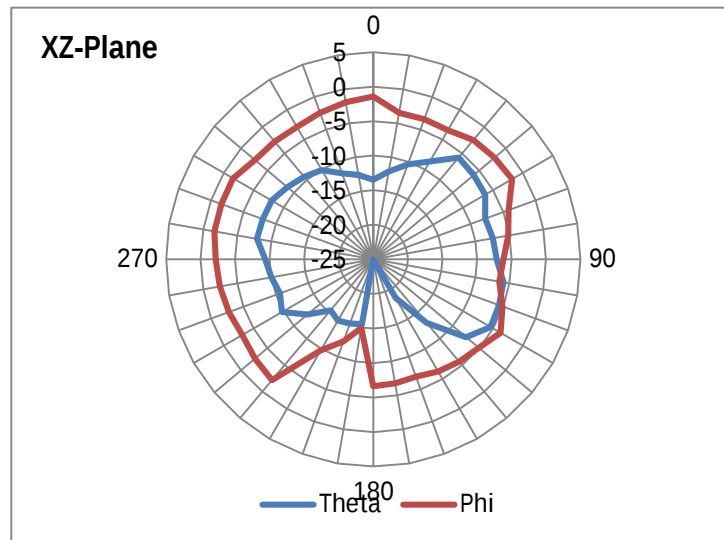
Antenna: 2500MHz



Frequency(MHz)	2500
Theta peak gain (dBi)	-7.3
Phi peak gain (dBi)	0.0

Radiation pattern Up Antenna

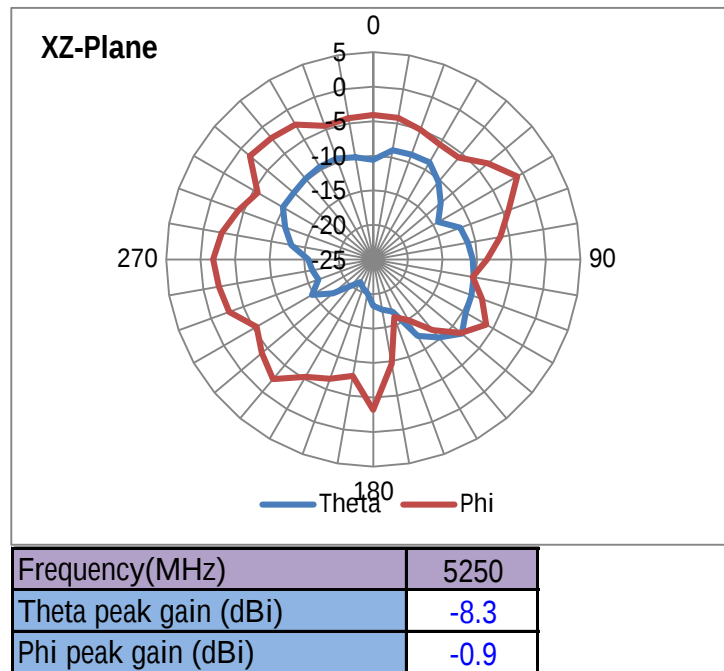
Antenna: 5150MHz



Frequency(MHz)	5150
Theta peak gain (dBi)	-5.4
Phi peak gain (dBi)	-1.5

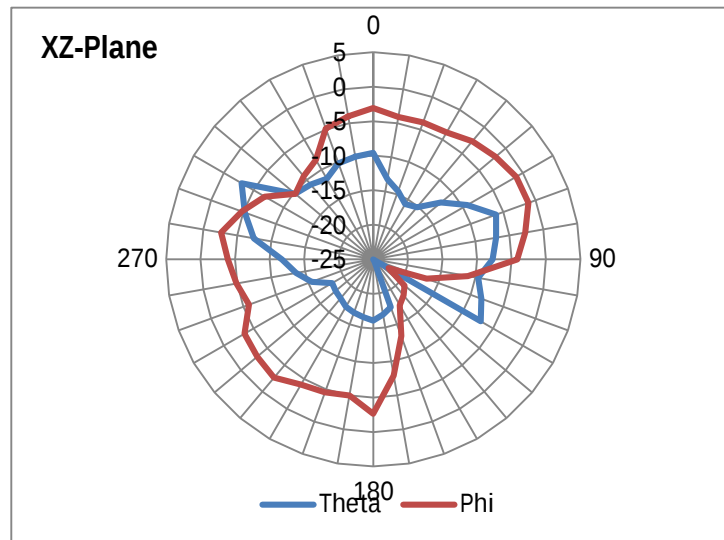
Radiation pattern Up Antenna

Antenna: 5250MHz



Radiation pattern Up Antenna

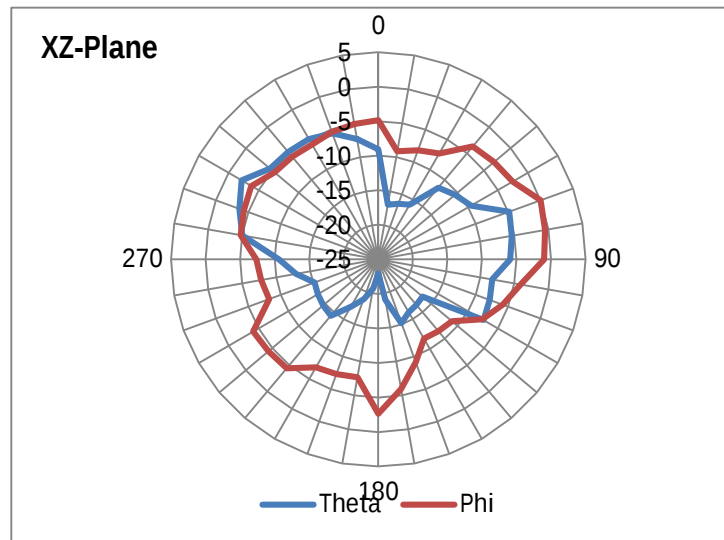
Antenna: 5350MHz



Frequency(MHz)	5350
Theta peak gain (dBi)	-3.0
Phi peak gain (dBi)	-1.1

Radiation pattern Up Antenna

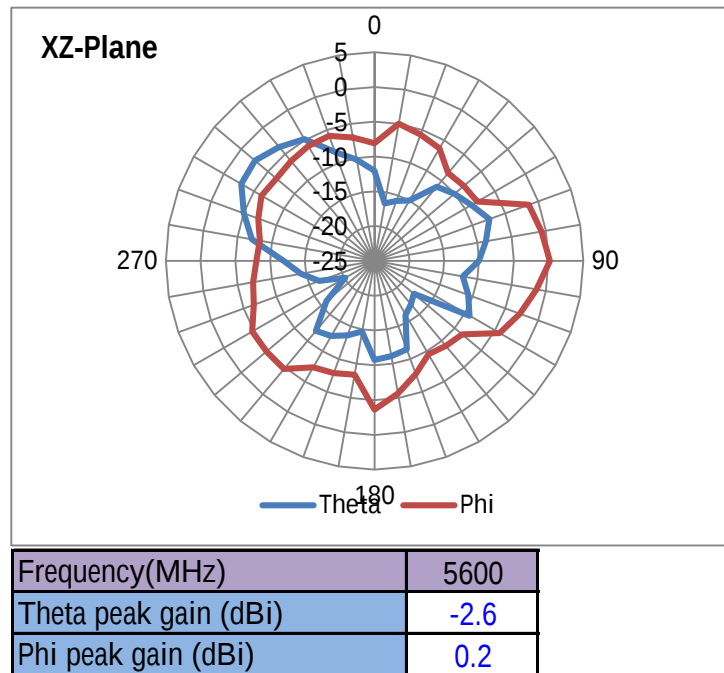
Antenna: 5470MHz



Frequency(MHz)	5470
Theta peak gain (dBi)	-2.2
Phi peak gain (dBi)	0.0

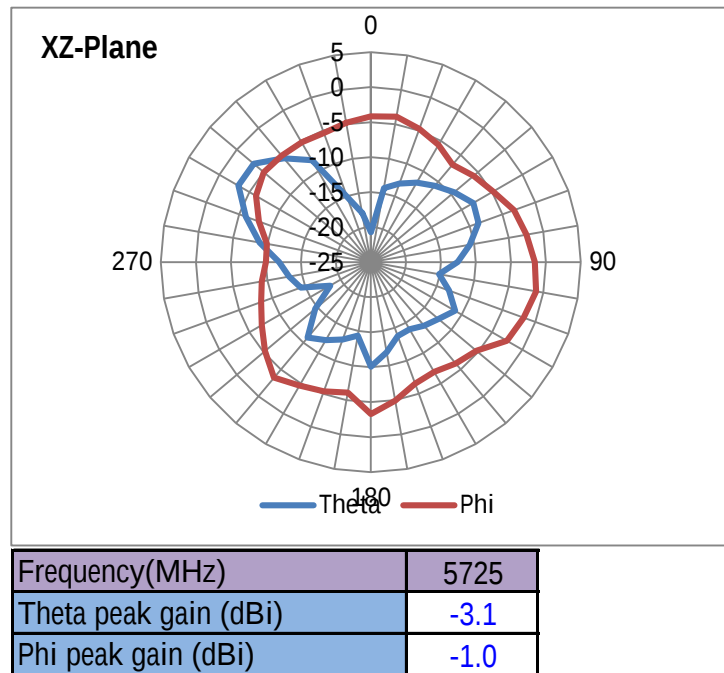
Radiation pattern Up Antenna

Antenna: 5600MHz



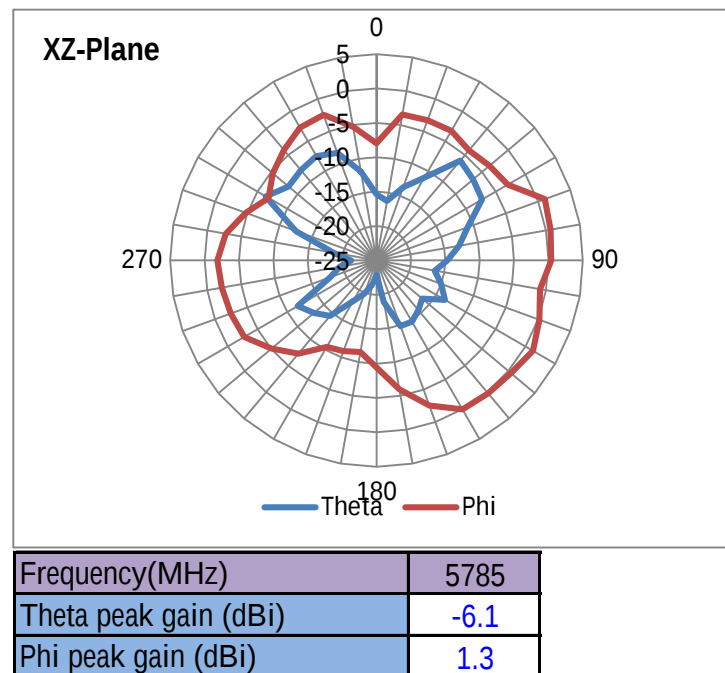
Radiation pattern Up Antenna

Antenna: 5725MHz



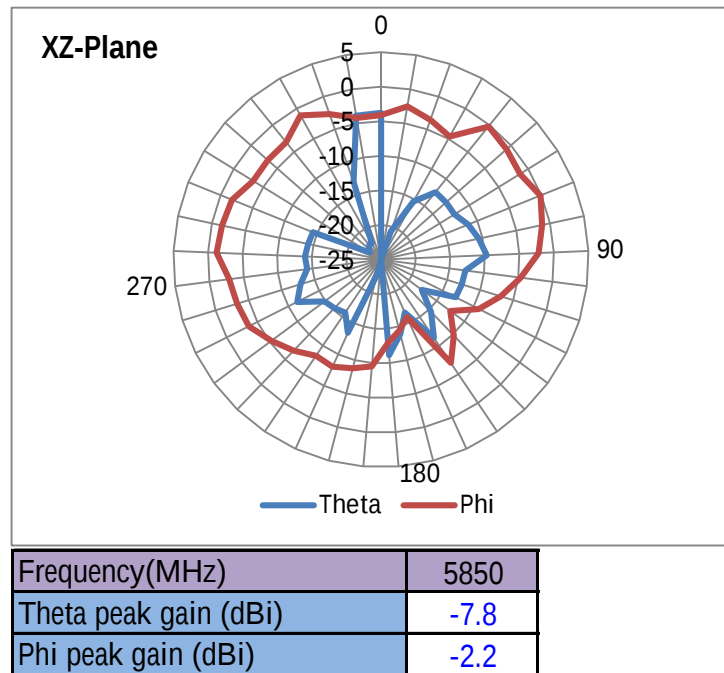
Radiation pattern Up Antenna

Antenna: 5785MHz



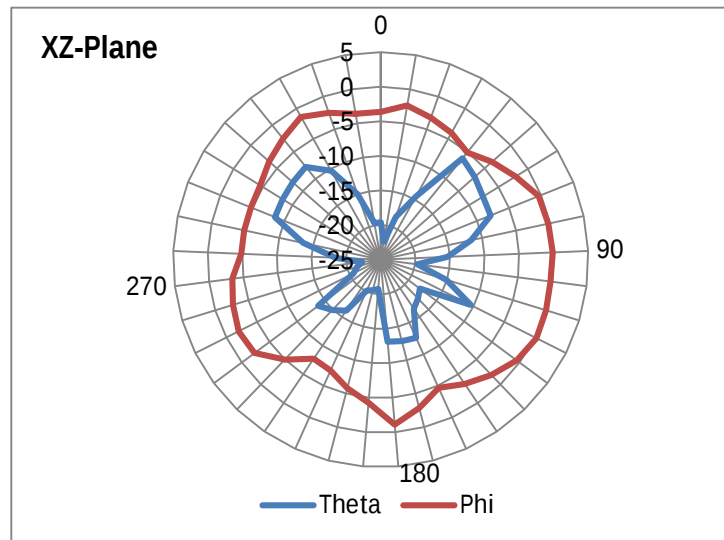
Radiation pattern Up Antenna

Antenna: 5850MHz



Radiation pattern Up Antenna

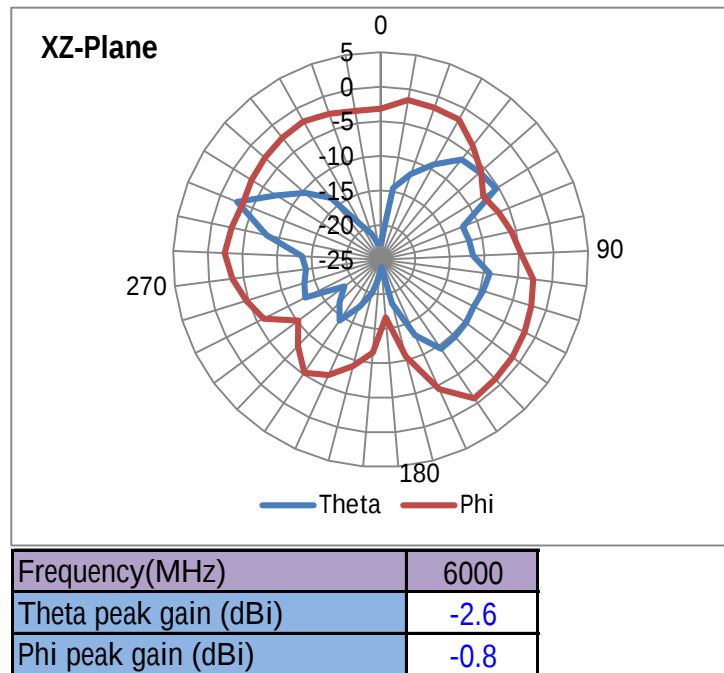
Antenna: 5925MHz



Frequency(MHz)	5925
Theta peak gain (dBi)	-6.2
Phi peak gain (dBi)	0.2

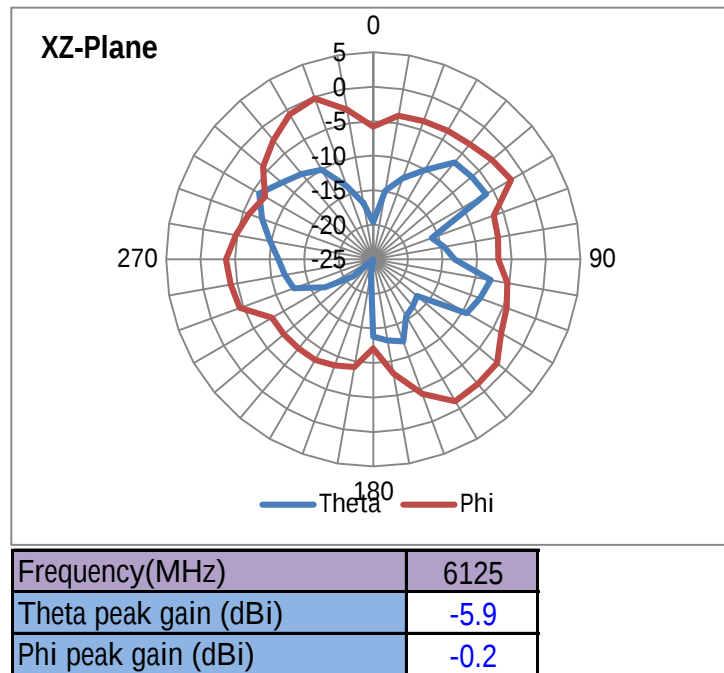
Radiation pattern Up Antenna

Antenna: 6000MHz



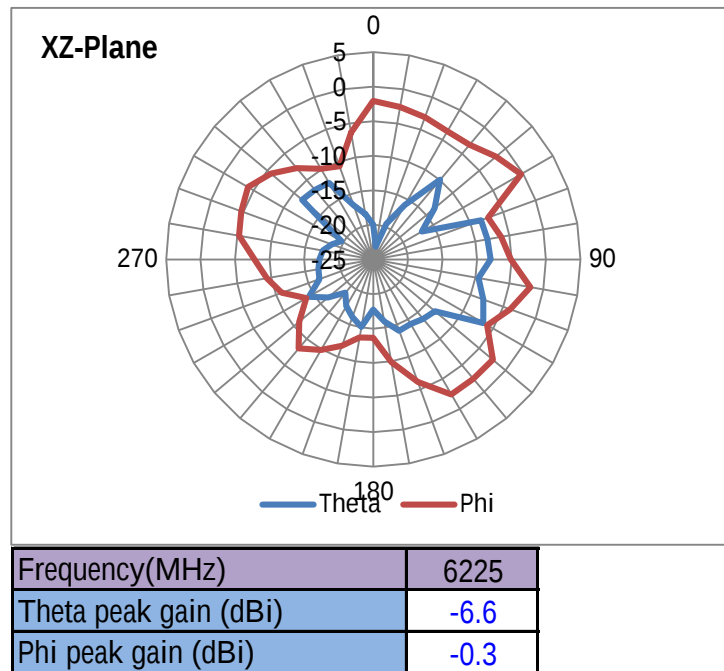
Radiation pattern Up Antenna

Antenna: 6125MHz



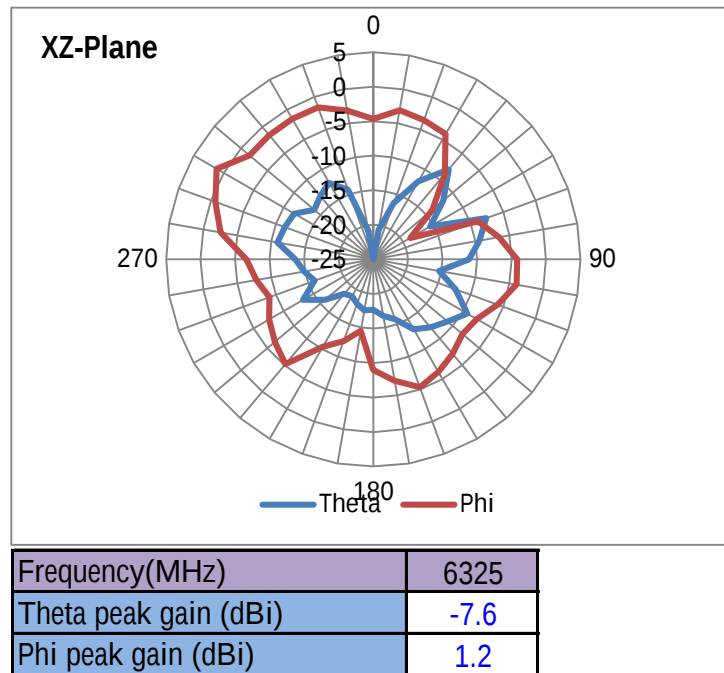
Radiation pattern Up Antenna

Antenna: 6225MHz



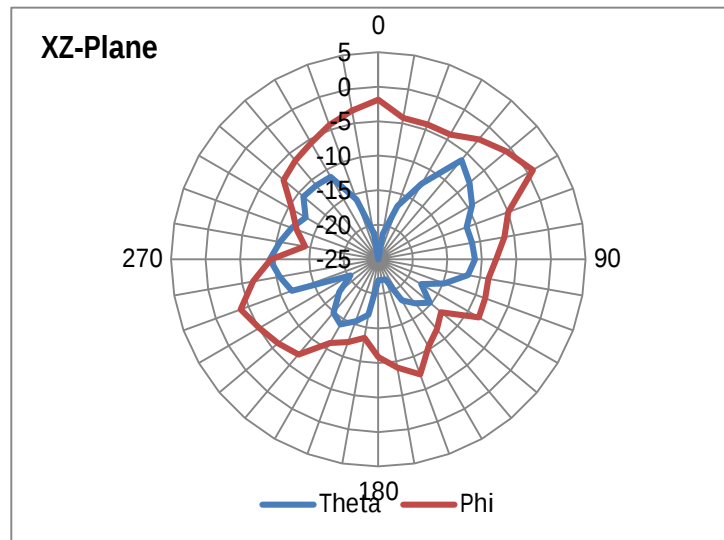
Radiation pattern Up Antenna

Antenna: 6325MHz



Radiation pattern Up Antenna

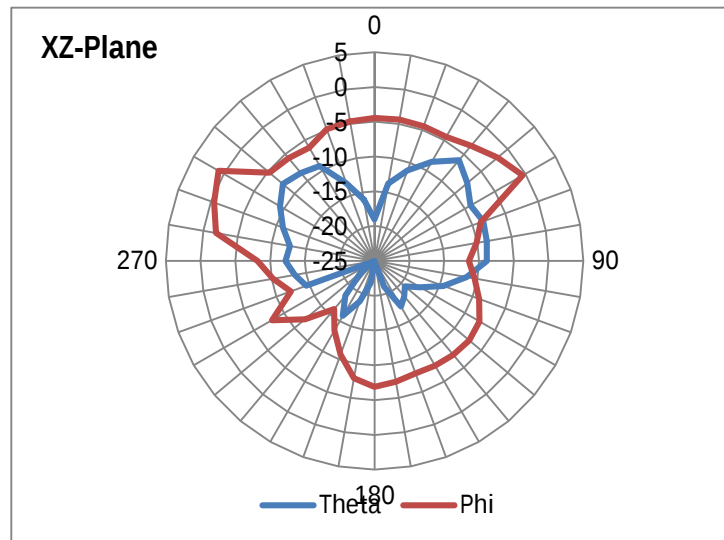
Antenna: 6425MHz



Frequency(MHz)	6425
Theta peak gain (dBi)	-6.3
Phi peak gain (dBi)	0.9

Radiation pattern Up Antenna

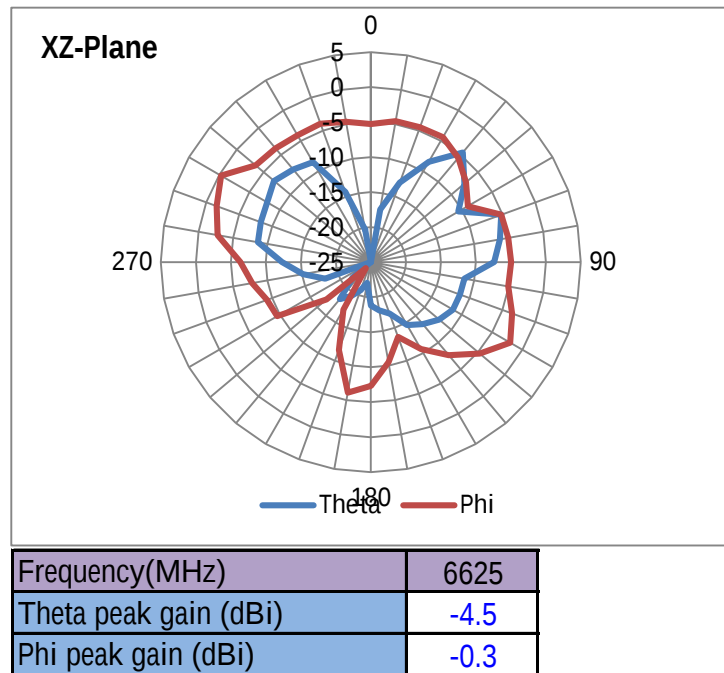
Antenna: 6525MHz



Frequency(MHz)	6525
Theta peak gain (dBi)	-6.1
Phi peak gain (dBi)	0.9

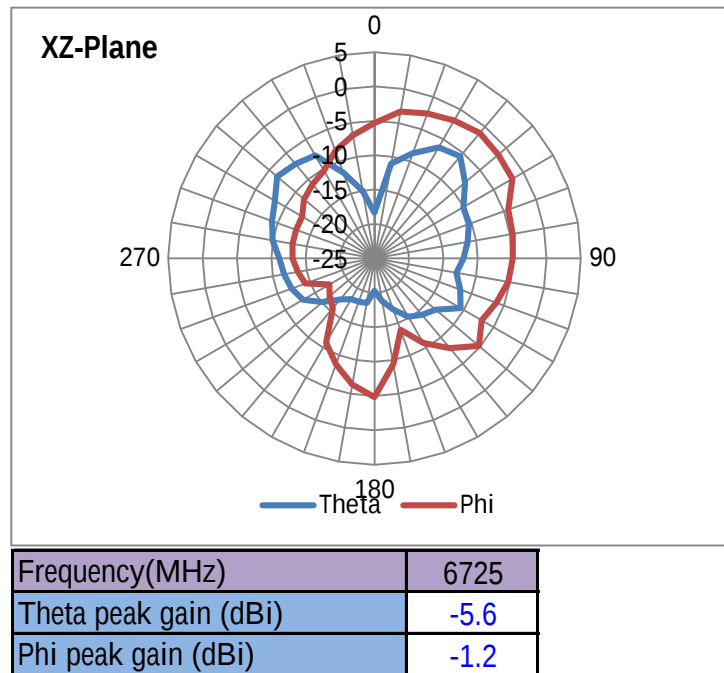
Radiation pattern Up Antenna

Antenna: 6625MHz



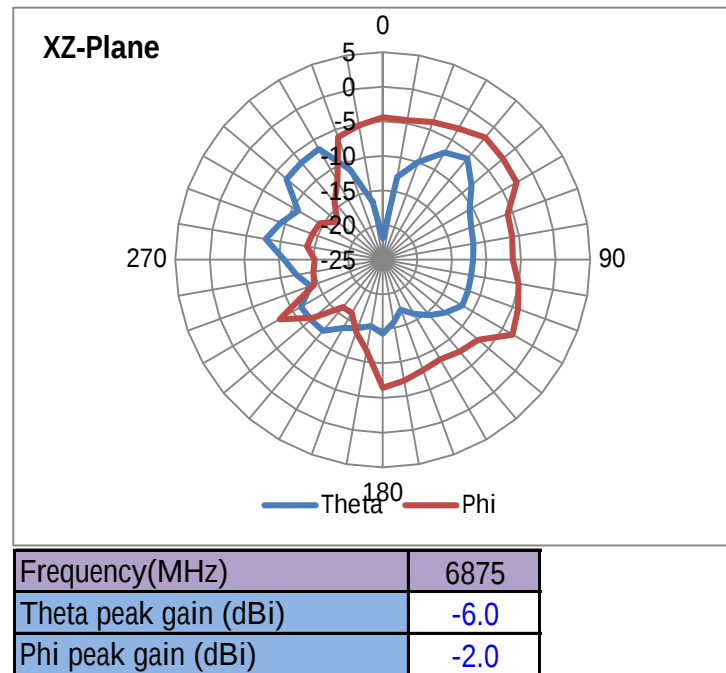
Radiation pattern Up Antenna

Antenna: 6725MHz



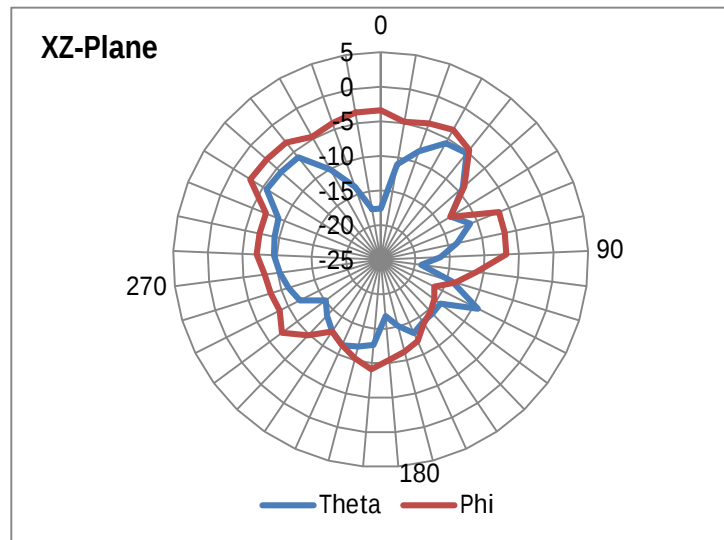
Radiation pattern Up Antenna

Antenna: 6875MHz



Radiation pattern Up Antenna

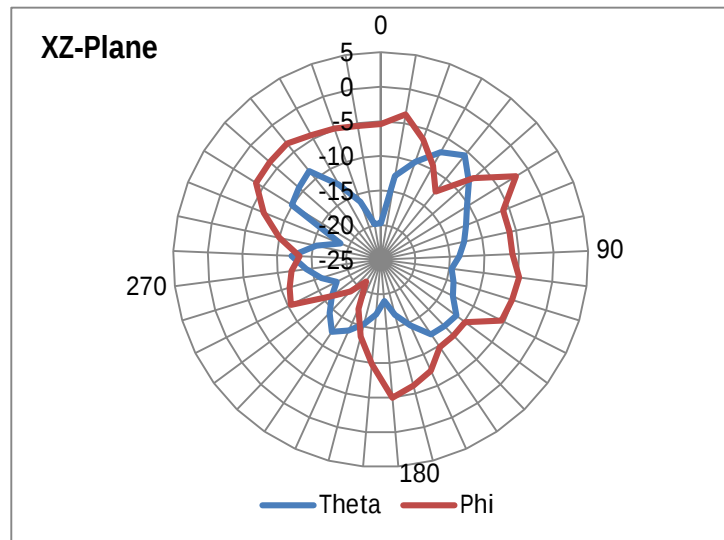
Antenna: 6925MHz



Frequency(MHz)	6925
Theta peak gain (dBi)	-5.2
Phi peak gain (dBi)	-2.9

Radiation pattern Up Antenna

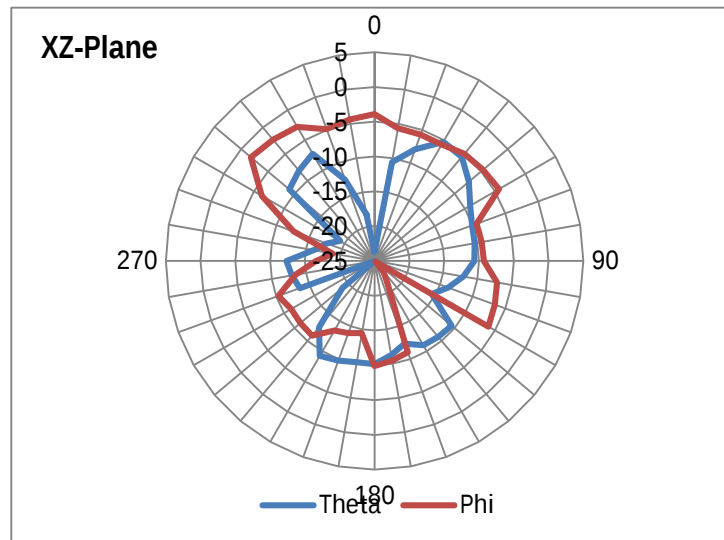
Antenna: 7000MHz



Frequency(MHz)	7000
Theta peak gain (dBi)	-5.6
Phi peak gain (dBi)	-2.0

Radiation pattern Up Antenna

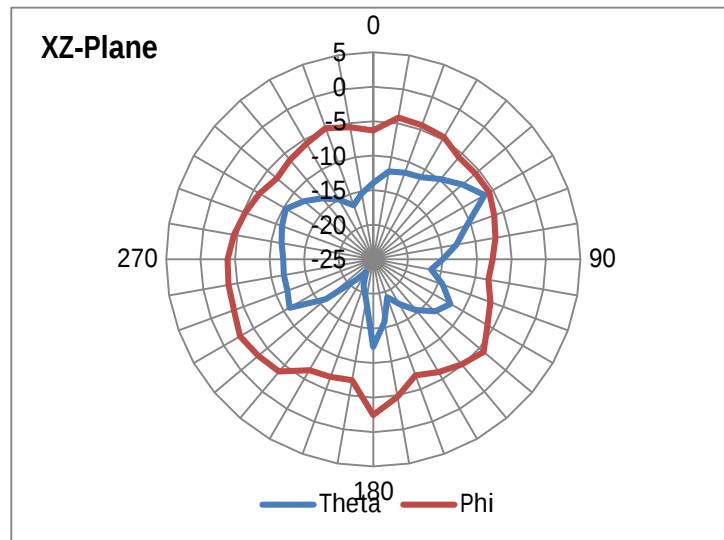
Antenna: 7125MHz



Frequency(MHz)	7125
Theta peak gain (dBi)	-5.3
Phi peak gain (dBi)	-1.8

Radiation pattern Down Antenna

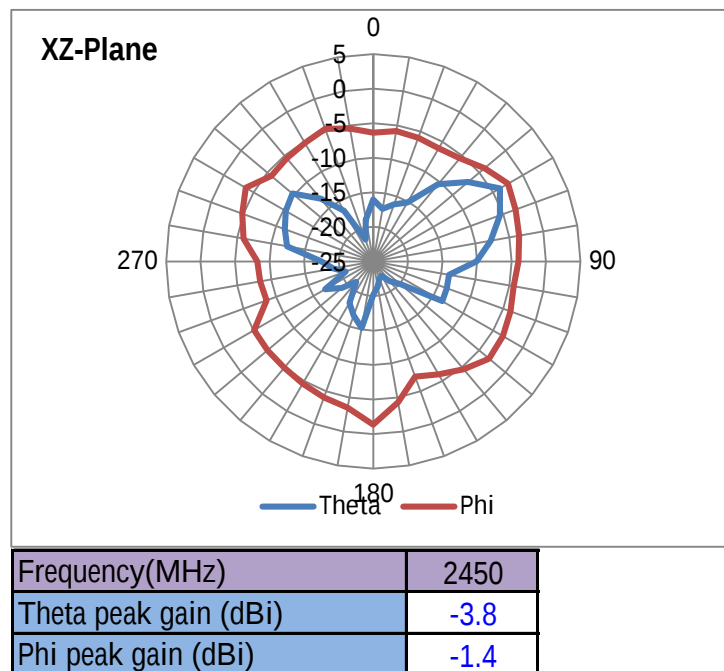
Antenna: 2400MHz



Frequency(MHz)	2400
Theta peak gain (dBi)	-6.4
Phi peak gain (dBi)	-2.5

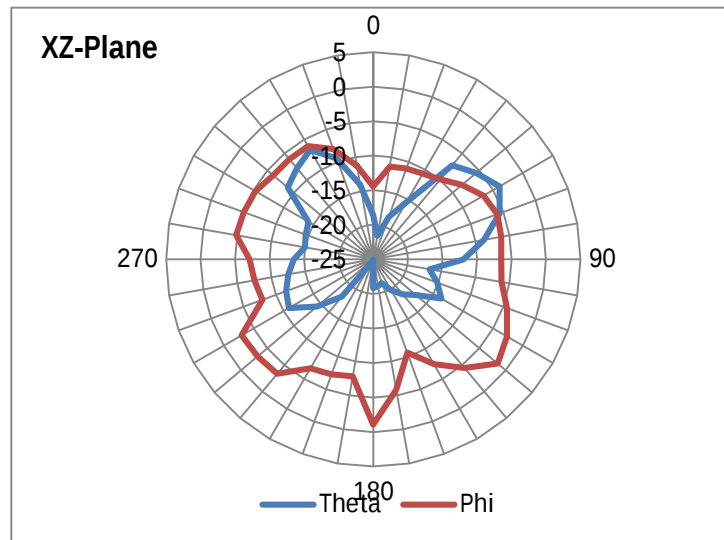
Radiation pattern Down Antenna

Antenna: 2450MHz



Radiation pattern Down Antenna

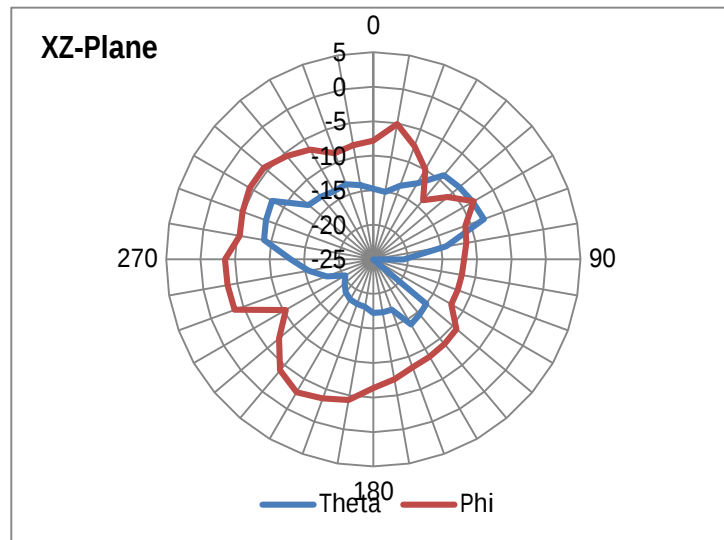
Antenna: 2500MHz



Frequency(MHz)	2500
Theta peak gain (dBi)	-3.9
Phi peak gain (dBi)	-1.1

Radiation pattern Down Antenna

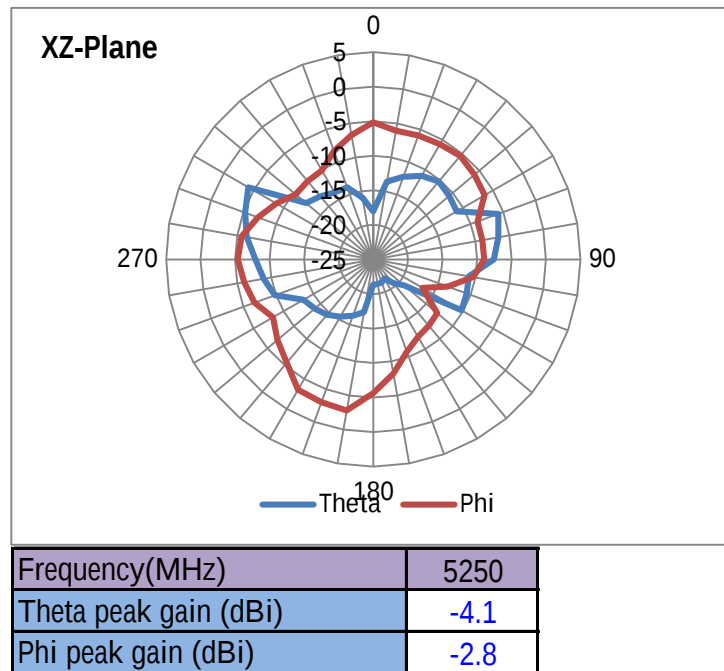
Antenna: 5150MHz



Frequency(MHz)	5150
Theta peak gain (dBi)	-8.0
Phi peak gain (dBi)	-2.8

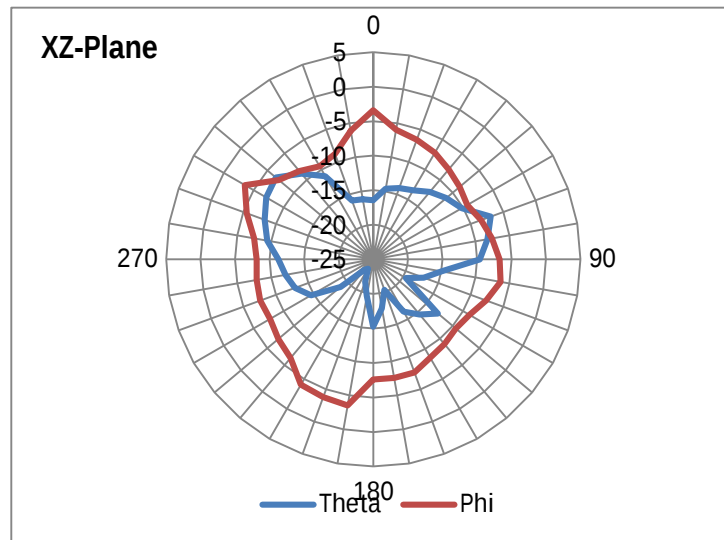
Radiation pattern Down Antenna

Antenna: 5250MHz



Radiation pattern Down Antenna

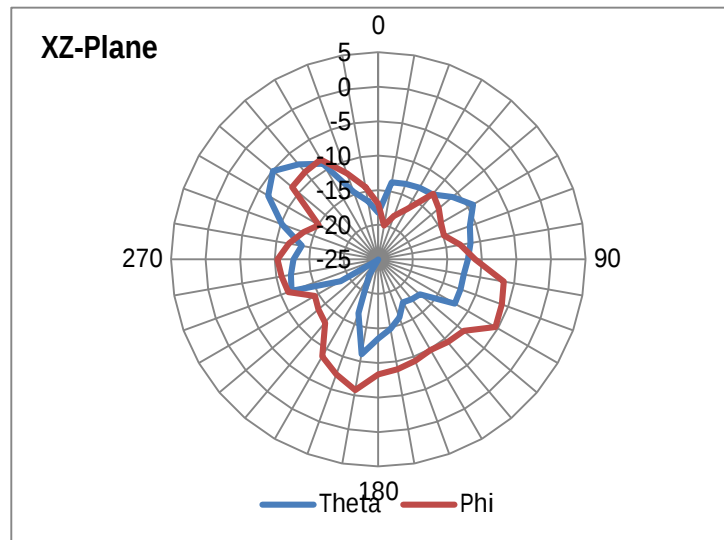
Antenna: 5350MHz



Frequency(MHz)	5350
Theta peak gain (dBi)	-6.6
Phi peak gain (dBi)	-3.4

Radiation pattern Down Antenna

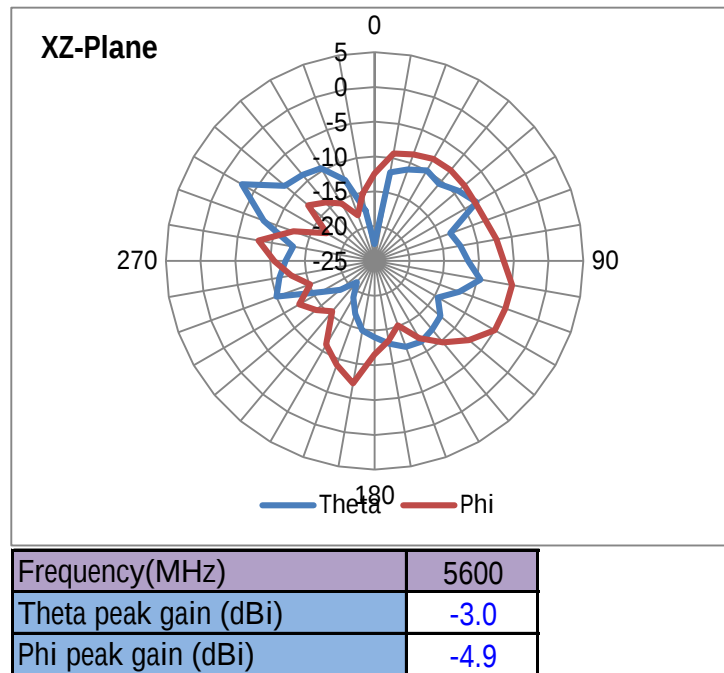
Antenna: 5470MHz



Frequency(MHz)	5470
Theta peak gain (dBi)	-5.1
Phi peak gain (dBi)	-5.4

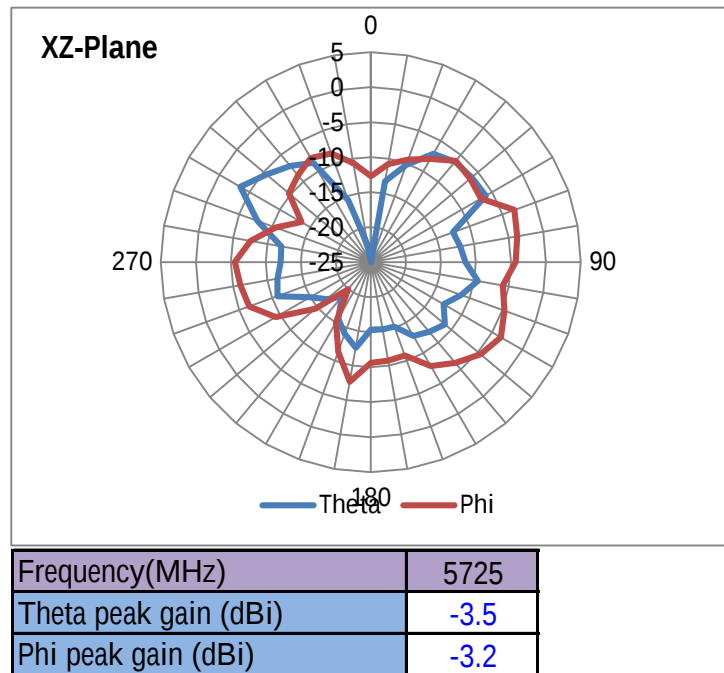
Radiation pattern Down Antenna

Antenna: 5600MHz



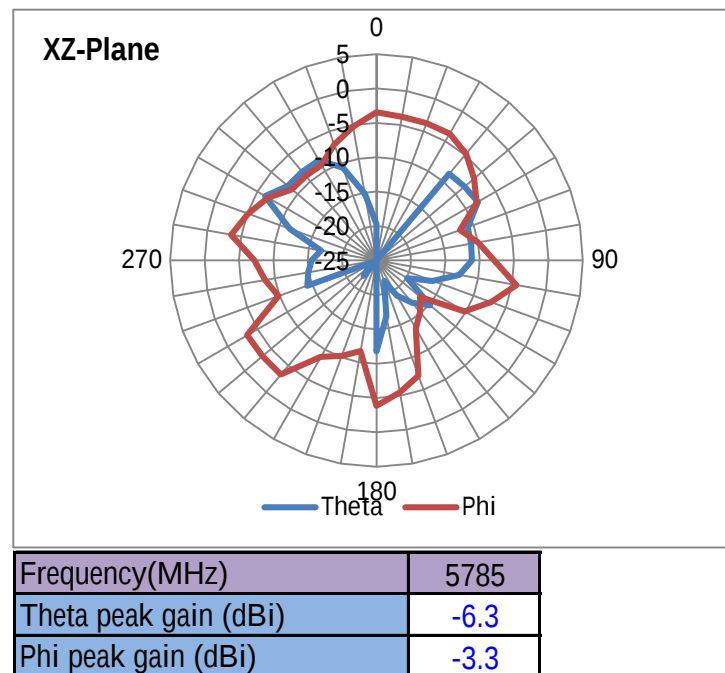
Radiation pattern Down Antenna

Antenna: 5725MHz



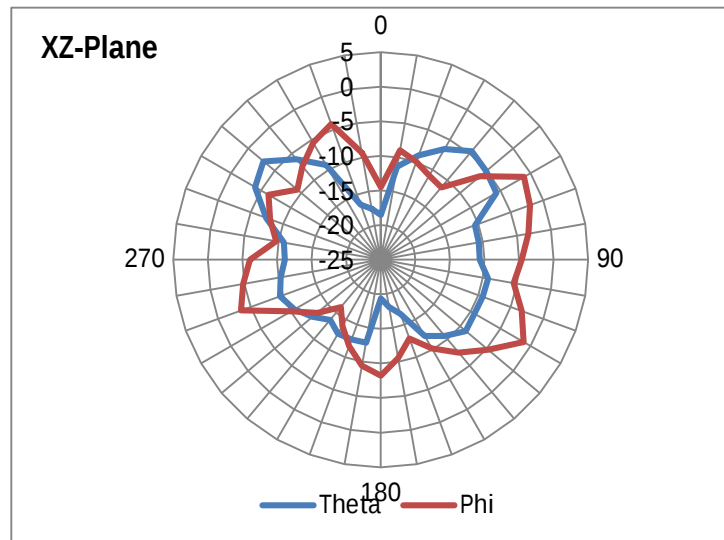
Radiation pattern Down Antenna

Antenna: 5785MHz



Radiation pattern Down Antenna

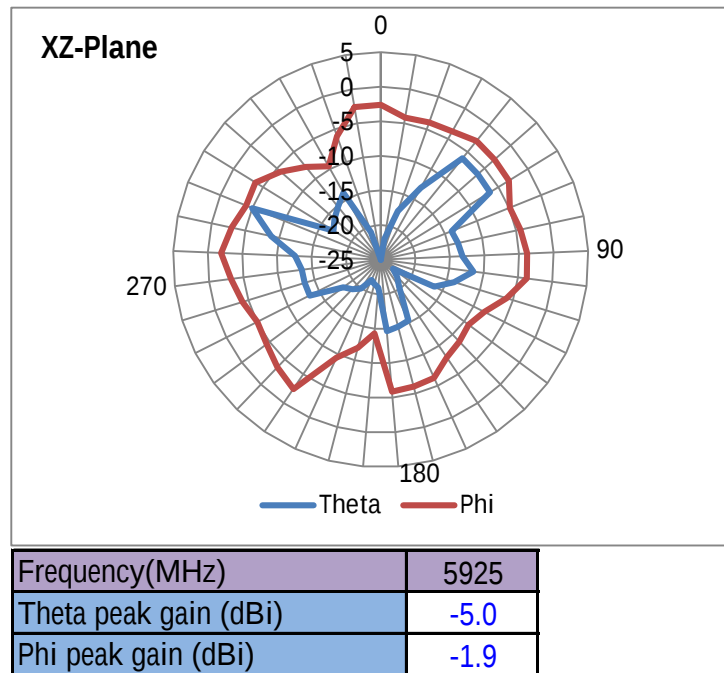
Antenna: 5850MHz



Frequency(MHz)	5850
Theta peak gain (dBi)	-2.9
Phi peak gain (dBi)	-1.1

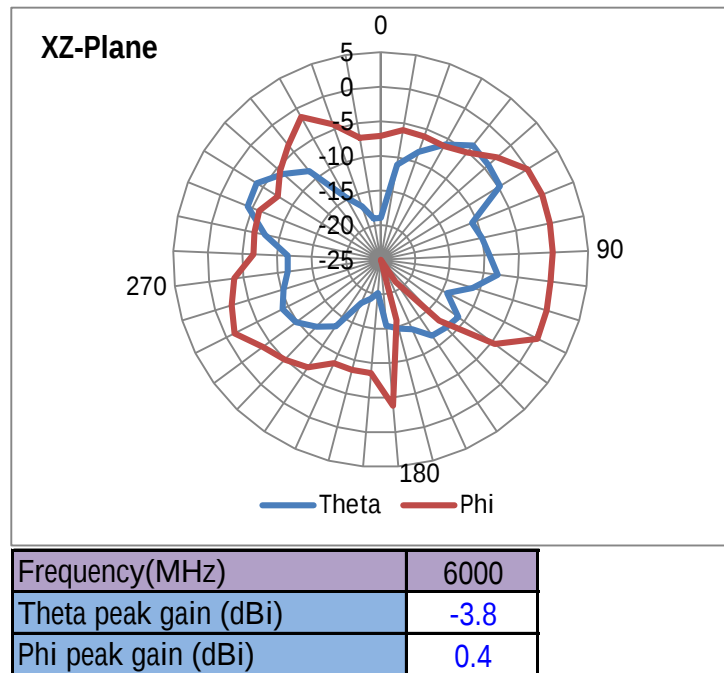
Radiation pattern Down Antenna

Antenna: 5925MHz



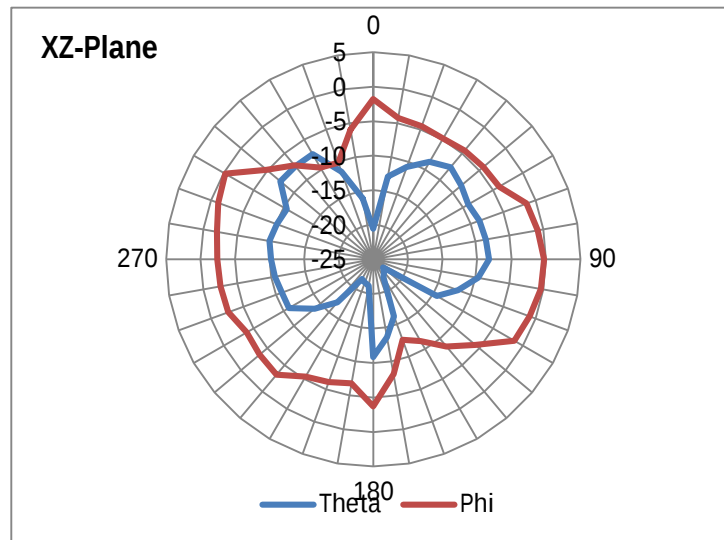
Radiation pattern Down Antenna

Antenna: 6000MHz



Radiation pattern Down Antenna

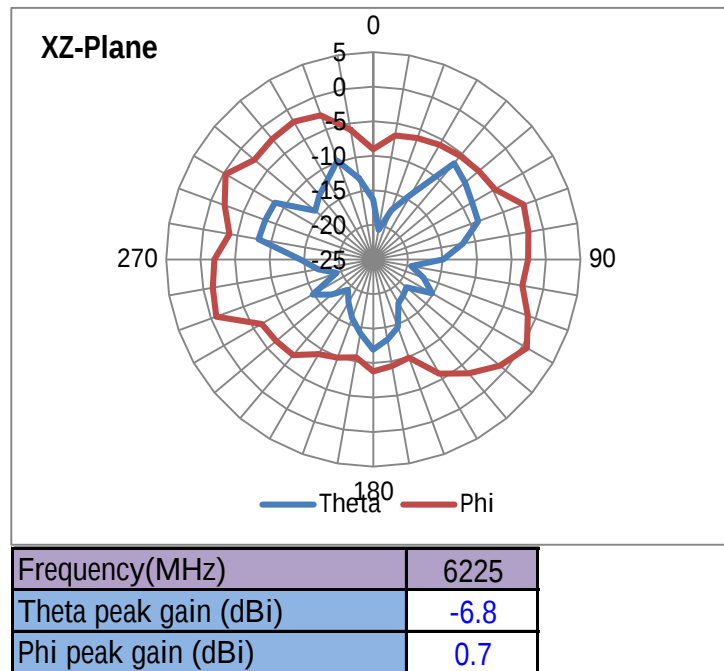
Antenna: 6125MHz



Frequency(MHz)	6125
Theta peak gain (dBi)	-7.4
Phi peak gain (dBi)	-0.2

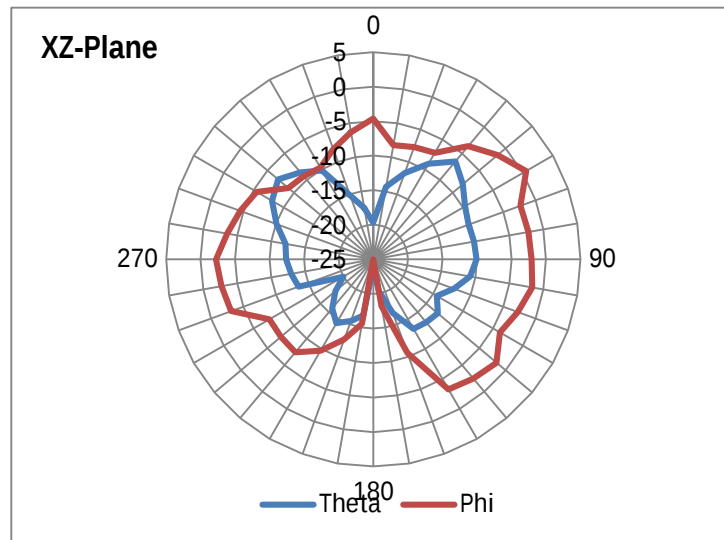
Radiation pattern Down Antenna

Antenna: 6225MHz



Radiation pattern Down Antenna

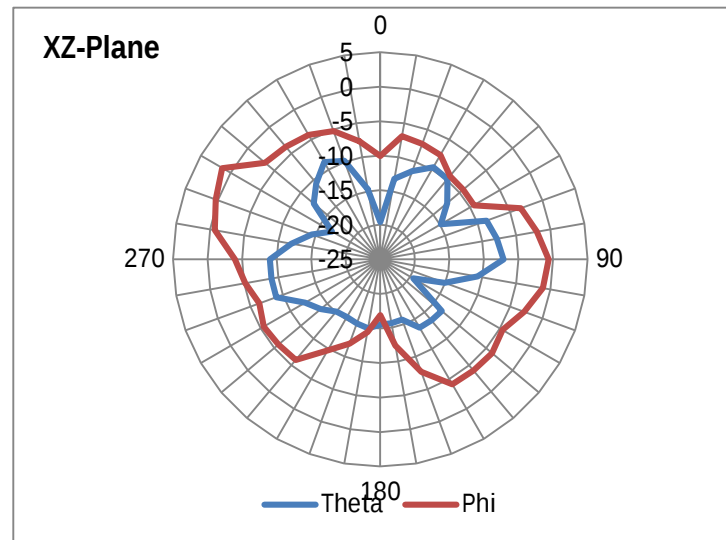
Antenna: 6325MHz



Frequency(MHz)	6325
Theta peak gain (dBi)	-6.5
Phi peak gain (dBi)	0.6

Radiation pattern Down Antenna

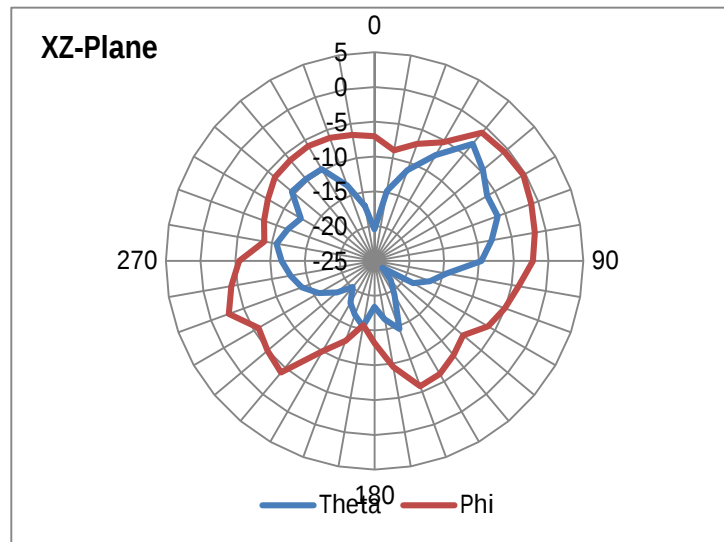
Antenna: 6425MHz



Frequency(MHz)	6425
Theta peak gain (dBi)	-7.1
Phi peak gain (dBi)	1.4

Radiation pattern Down Antenna

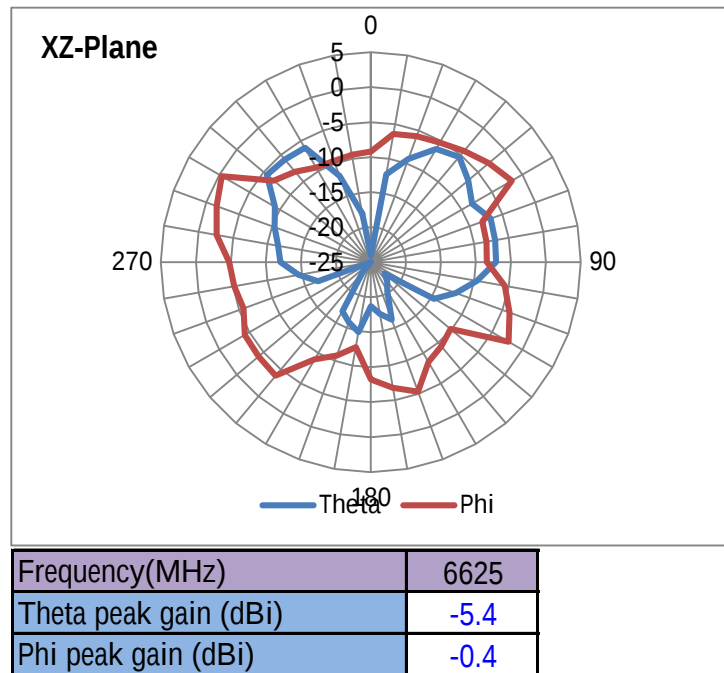
Antenna: 6525MHz



Frequency(MHz)	6525
Theta peak gain (dBi)	-3.1
Phi peak gain (dBi)	-0.3

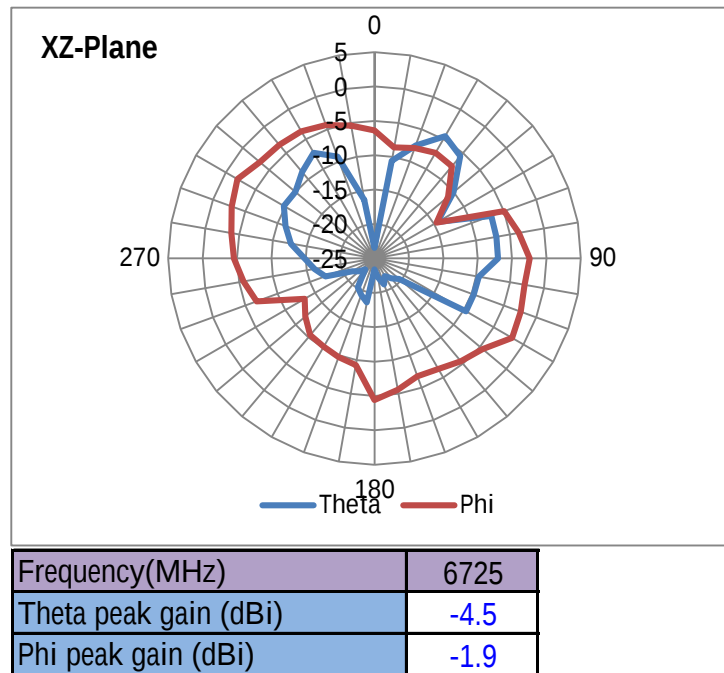
Radiation pattern Down Antenna

Antenna: 6625MHz



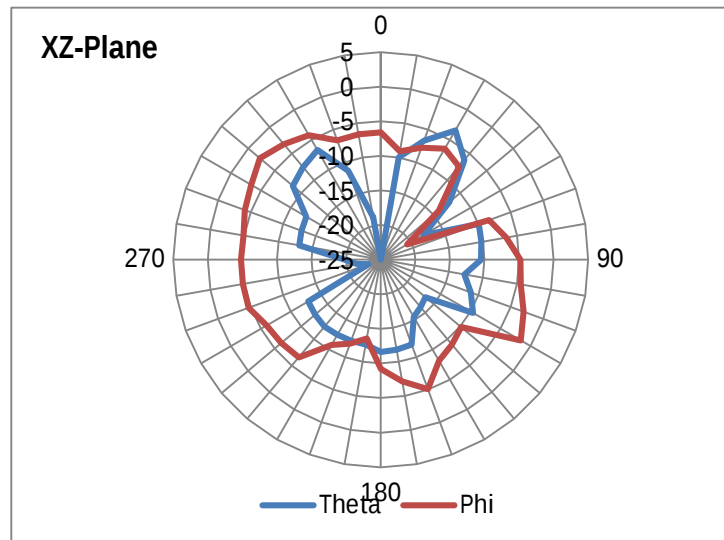
Radiation pattern Down Antenna

Antenna: 6725MHz



Radiation pattern Down Antenna

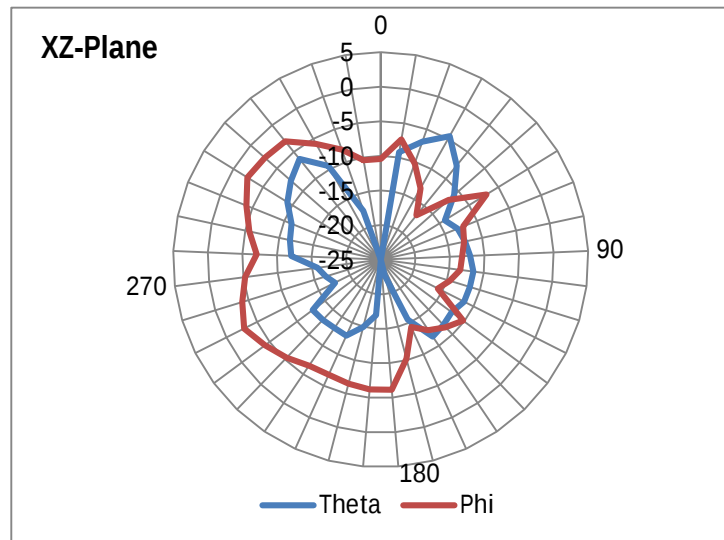
Antenna: 6875MHz



Frequency(MHz)	6875
Theta peak gain (dBi)	-3.4
Phi peak gain (dBi)	-1.6

Radiation pattern Down Antenna

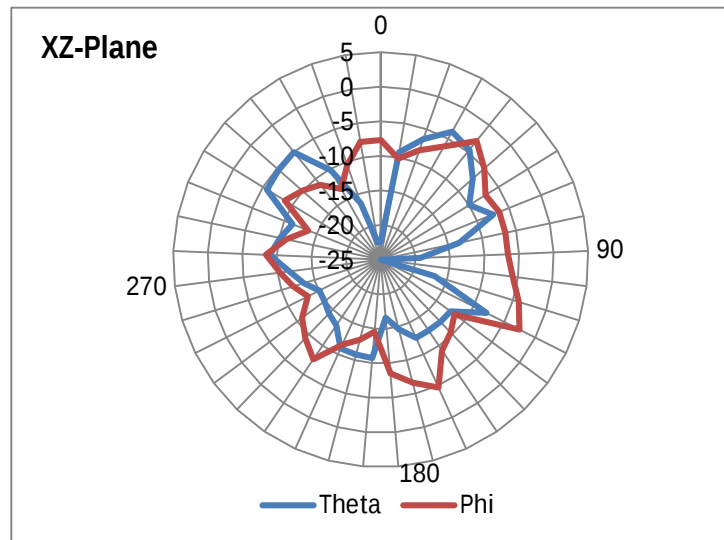
Antenna: 6925MHz



Frequency(MHz)	6925
Theta peak gain (dBi)	-4.6
Phi peak gain (dBi)	-2.4

Radiation pattern Down Antenna

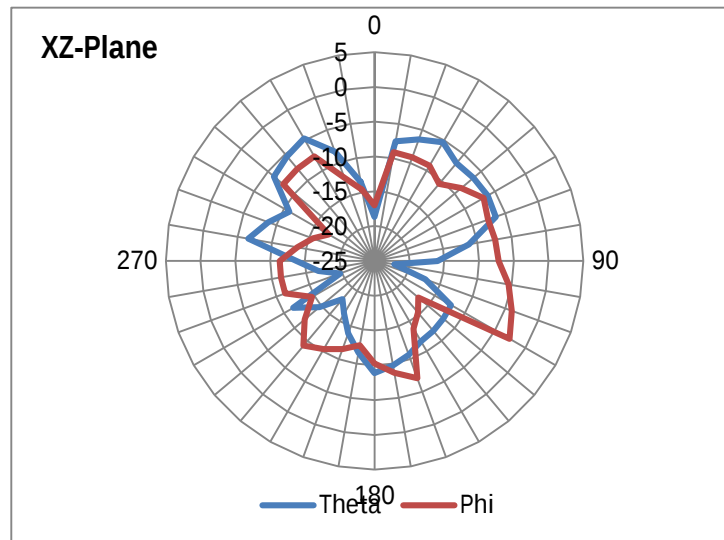
Antenna: 7000MHz



Frequency(MHz)	7000
Theta peak gain (dBi)	-3.8
Phi peak gain (dBi)	-2.5

Radiation pattern Down Antenna

Antenna: 7125MHz



Frequency(MHz)	7125
Theta peak gain (dBi)	-4.7
Phi peak gain (dBi)	-2.6

Up Antenna Gain Table (dBi)

	Peak Gain			Cable Loss (dBi)
Frequency (MHZ)	Vertical (dBi)	Horizontal (dBi)	Efficiency [%]	Loss
2400	-1.0	-8.6	-3.84	1.84
2450	0.3	-8.0	-4.00	1.84
2500	0.0	-7.3	-2.71	1.84
5150	-1.5	-5.4	-4.40	2.85
5250	-0.9	-8.3	-4.33	2.85
5350	-1.1	-3.0	-4.09	2.85
5470	0.0	-2.2	-4.16	2.92
5600	0.2	-2.6	-4.29	2.92
5725	-1.0	-3.1	-4.66	2.92
5785	1.3	-6.1	-3.18	2.94
5850	-0.9	-3.2	-4.08	2.94
5925	0.2	-6.2	-3.62	3.52
6000	-0.8	-2.6	-3.83	3.52
6125	-0.2	-5.9	-3.98	3.52
6225	-0.3	-6.6	-3.89	3.52
6325	1.2	-7.6	-3.78	3.52
6425	0.9	-6.3	-4.55	3.52
6525	0.9	-6.1	-4.01	3.96
6625	-0.3	-4.5	-3.65	3.96

Up Antenna Gain Table (dBi)

	Peak Gain			Cable Loss (dBi)
Frequency (MHZ)	Vertical (dBi)	Horizontal (dBi)	Efficiency [%]	Loss
6725	-1.2	-5.6	-4.44	3.96
6875	-2.0	-6.0	-4.42	3.96
6925	-2.9	-5.2	-4.67	4.21
7000	-2.0	-5.6	-4.88	4.21
7125	-1.8	-5.3	-4.82	4.21

Down Antenna Gain Table (dBi)

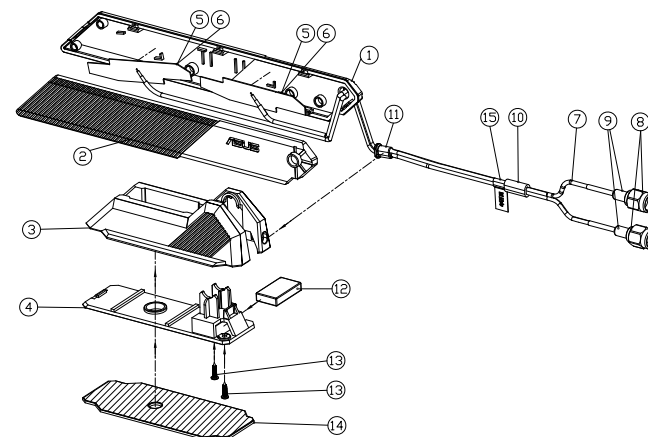
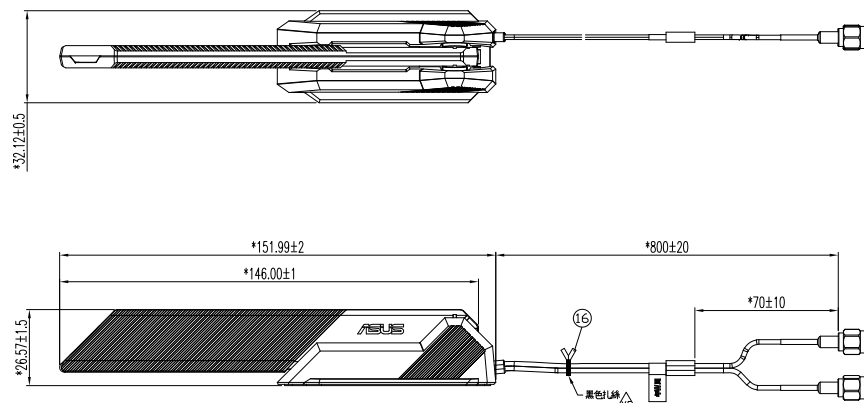
	Peak Gain			Cable Loss (dBi)
Frequency (MHZ)	Vertical (dBi)	Horizontal (dBi)	Efficiency [%]	Loss
2400	-2.5	-6.4	-5.07	1.75
2450	-1.4	-3.8	-4.49	1.75
2500	-1.1	-3.9	-4.38	1.75
5150	-2.8	-8.0	-4.82	2.70
5250	-2.8	-4.1	-4.79	2.70
5350	-3.4	-6.6	-4.96	2.70
5470	-5.4	-5.1	-5.00	2.77
5600	-4.9	-3.0	-4.87	2.77
5725	-3.2	-3.5	-4.93	2.77
5785	-3.3	-6.3	-4.28	2.78
5850	-1.1	-2.9	-4.16	2.78
5925	-1.9	-5.0	-4.03	3.36
6000	0.4	-3.8	-3.54	3.36
6125	-0.2	-7.4	-3.79	3.36
6225	0.7	-6.8	-3.65	3.36
6325	0.6	-6.5	-4.09	3.36
6425	1.4	-7.1	-4.05	3.36
6525	-0.3	-3.1	-3.96	3.72
6625	-0.4	-5.4	-3.92	3.72

Up Antenna Gain Table (dBi)

	Peak Gain			Cable Loss (dBi)
Frequency (MHZ)	Vertical (dBi)	Horizontal (dBi)	Efficiency [%]	Loss
6725	-1.9	-4.5	-3.72	3.72
6875	-1.6	-3.4	-4.07	3.72
6925	-2.4	-4.6	-4.72	3.97
7000	-2.5	-3.8	-4.44	3.97
7125	-2.6	-4.7	-5.18	3.97

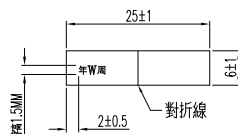
RoHS + HF

REV	DESCRIPTION	DESIGN	DATE
X1	NEW DRAWING	ANDERSON	2020.08.27
X2	NEW RELEASE	REBECCA	2020.10.07
X3	NEW RELEASE	REBECCA	2020.10.12
X4	MODIFY DIMENSION	REBECCA	2020.11.14
X5	ADD ITEM:16 PART	REBECCA	2020.11.18



LABEL

LABEL 標面印字, 黏貼位置如組裝圖
印字內容: 年 W 周, 如20W45;
20—代表年份, 2020
W—代表WEEK
45—代表生產製作所在周, 第45周



16	---	黑色扎絲	COLOR : BLACK	1
15	---	LABEL	25 X 6MM, PAPER : BLACK , WORD : WHITE	1
14	---	RUBBER SPACER +ADHESIVE	T=1.05MM (RUBBER BLACK T=0.9MM + ADHESIVE 3M9448 T=0.15MM)	1
13	---	SCREW	Iron, M1.6 X 0.35 L=7.4 , COLOR: BLACK	2
12	---	MAGNET	10 X 3.65 X 17 ,N35 ND-FE-B, NI 6um (min)	1
11	---	SR 2	SILICONE 7 X 5.35 X 3.95MM , COLOR: BLACK	1
10	---	FIXED RUBBER	SILICONE 10 X 5.3 X 3.55MM , COLOR: BLACK	1
9	---	HEAT SHRINKABLE TUBE	Ø3.5 X 20MM COLOR: BLACK	2
8	---	SMA CONNECTOR	SAM R/P PULG AU 1U" NI 80U" PLATED	2
7	---	DOUBLING CABLE	RF-1.37T/50 (SY137T/50-003(Black)) , BLACK	1
6	---	ADHESIVE(FOR PCB)	3M468MP , T=0.13MM	2
5	---	ANT PCB	L=16MM	2
4	---	BASE COVER	POM M90-44 , COLOR: BLACK	1
3	---	BASE CASE	PC+ABS (TN7000A) COLOR: BLACK	1
2	---	LEFT CASE	PC+ABS (TN7000A) COLOR: BLACK	1
1	---	RIGHT CASE	PC+ABS (TN7000A) COLOR: BLACK	1

ITEM	PART NO	NAME	DESCRIPTION	Q'TY
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備註:

- 1.電氣特性測試 : 100%
- 2.標註公差的尺寸須做重點檢驗(SPC)
- 3.焊接不可有虛焊,假焊,錫尖,汗點等不良
- 4.焊錫表面需均勻且光滑飽滿
- 5.本產品使用原物料及製程必須符合立訊"QW-QA-43"環境管理物質相關規定
- 6.此產品及其附屬包裝材料的均質成份須滿足無鹵管制要求:
Br<900ppm,Cl<900ppm ,Br+Cl<1500ppm

TOLERANCE(UNLESS SPECIFIED)		CUSTOMER P/N: 14008-02650600	LUXSHARE-ICT											
UNIT: mm	TOLERANCE													
~8	± 0.10	APPD: ANDERSON	TITLE: ANT BABY WIFI-6E MARTIN ASSY											
>8~25	± 0.15													
>25~80	± 0.20													
>80~250	± 0.30													
>250	± 0.50	CHKD: REBECCA	PART NO: LA9RF059-CS-H											
ANGEL	TOLERANCE													
~30°	± 0.5°													
>30°~60°	± 1°													
>60°~90°	± 1.5°	DRAW: REBECCA	 <table><tr><th>SCALE</th><th>SHEET</th><th>SIZE</th><th>REV</th></tr><tr><td>1:1</td><td>1/1</td><td>A4</td><td>X5</td></tr></table>				SCALE	SHEET	SIZE	REV	1:1	1/1	A4	X5
SCALE	SHEET						SIZE	REV						
1:1	1/1						A4	X5						
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