

Data Sheet

CUSTOMER: ASUS

MODEL NAME: B7402

CUSTOMER P/N: 14008-04680100

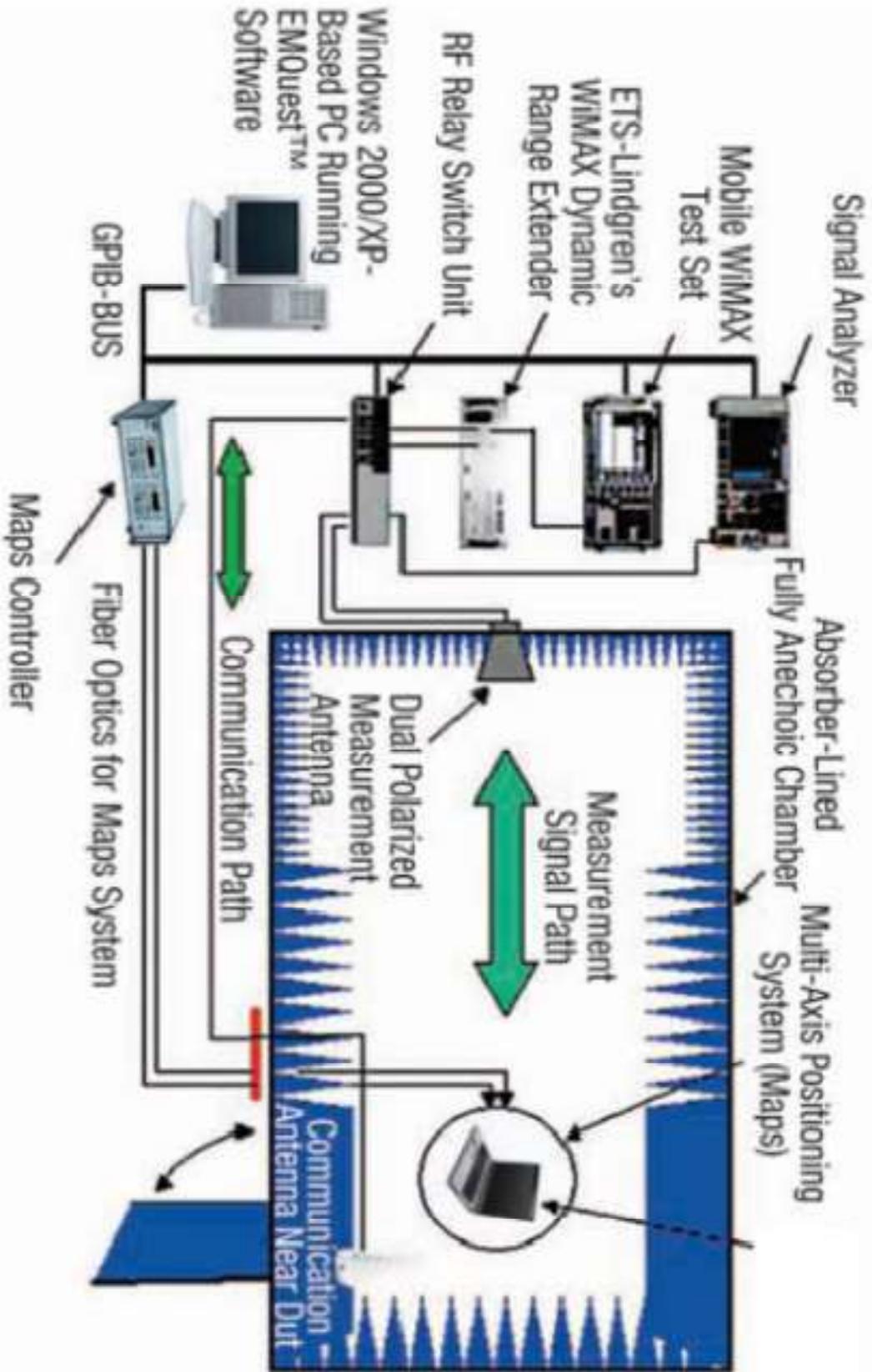
ICT P/N: LA9RF344-CS-H

APPROVED	
MANUFACTURER	CUSTOMER
<i>PREPARED BY:</i>	<i>APPROVED BY:</i>
<i>CHECK BY:</i>	
<i>APPROVED BY:</i>	

Description

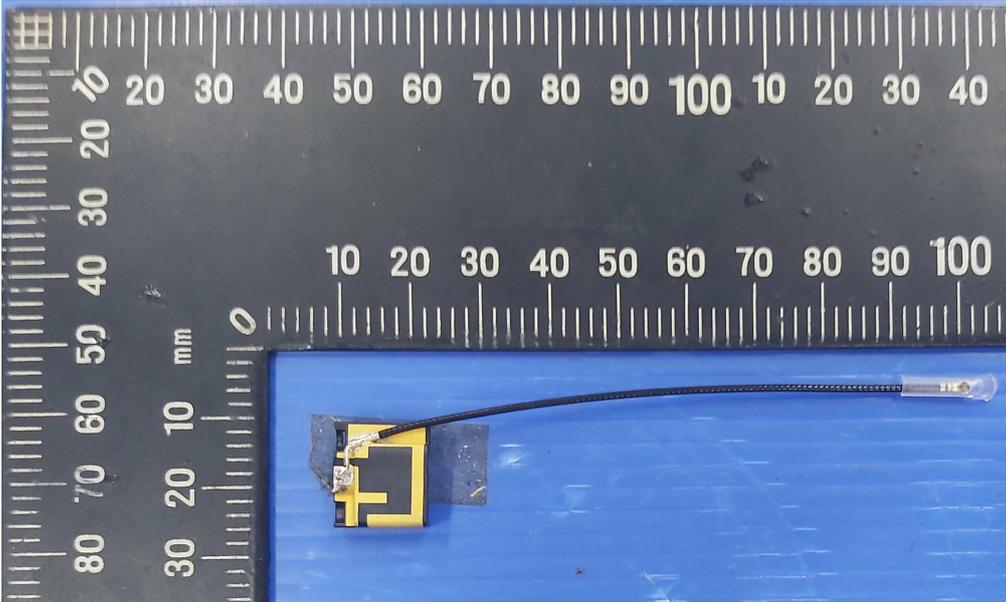
Specifications

Antennas Type	PIFA Antenna for Wi-Fi application	
Connector Type	IPEX-4 Connector for 1.13 cable	
Cable Type	LOW LOSS 1.13 RF Cable	
Impedance	50Ω	
Polarization	Linear	
Radiation pattern	Omni-directional	
VSWR	2.40~2.50 GHz	5.00 Max
	5.15~5.85 GHz	
	5.925~7.125 GHz	
Peak gain	2.40~2.50 GHz	2.12 dBi
	5.15~5.85 GHz	3.59 dBi
	5.925~7.125 GHz	4.62 dBi
Cable Loss	2.40~2.50 GHz	0.20 dB
	5.15~5.85 GHz	0.31 dB
	5.925~7.125 GHz	0.32 dB
Cable length/Color	WLAN MAIN	80.5mm , Black

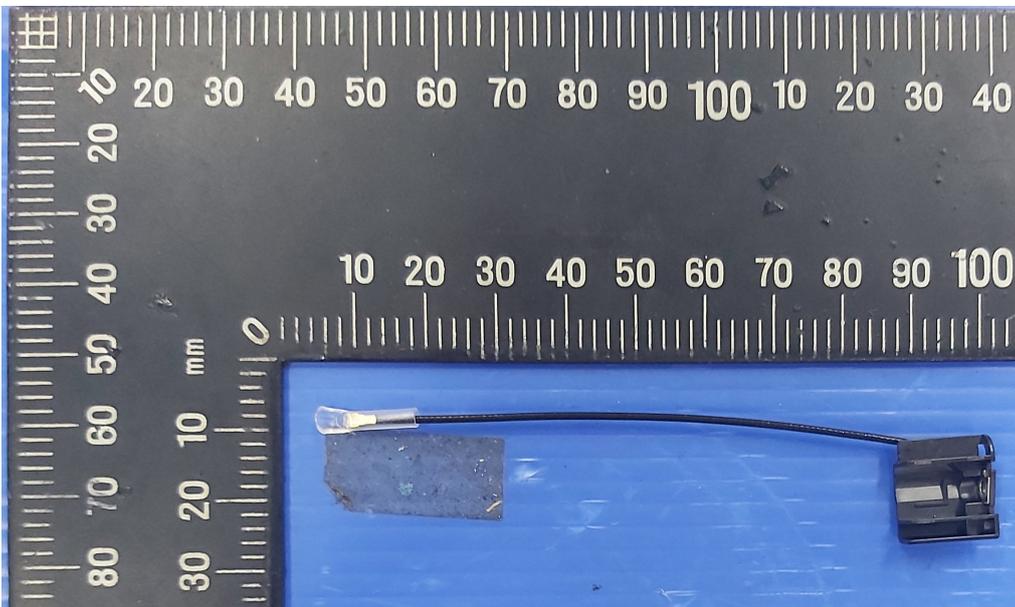


Description

Antenna Picture1

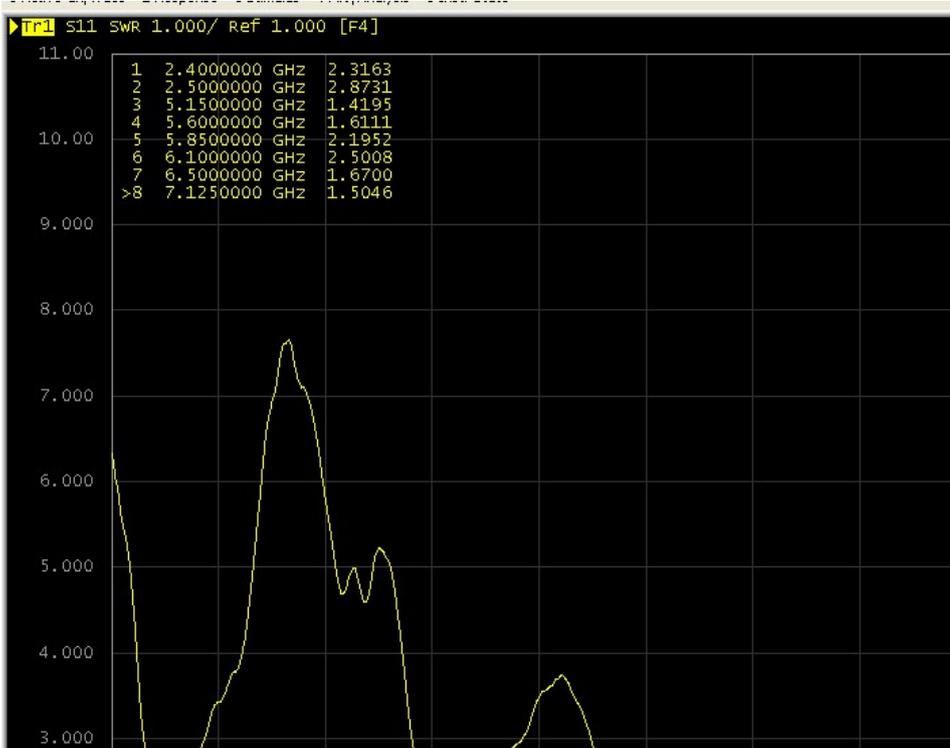


Antenna Picture2

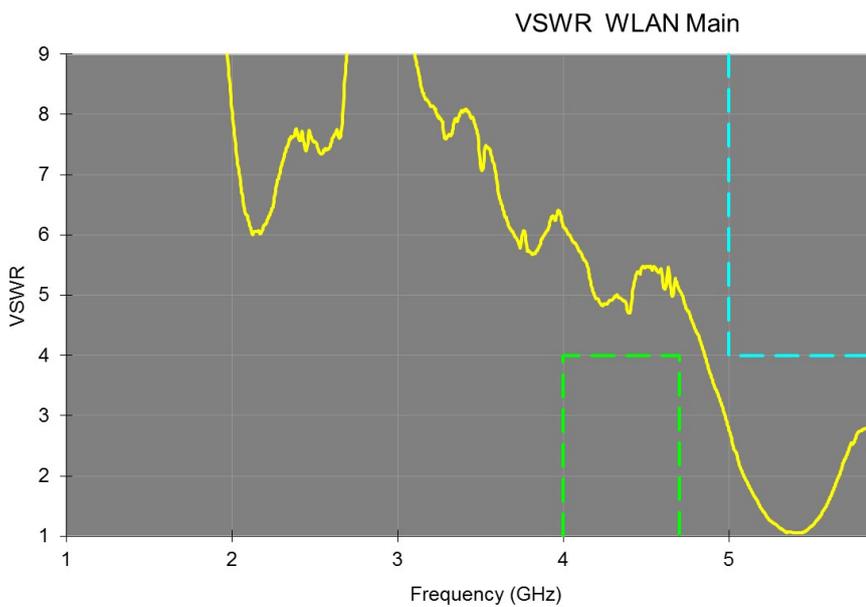


Performance Data

1. VSWR



2. SPEC



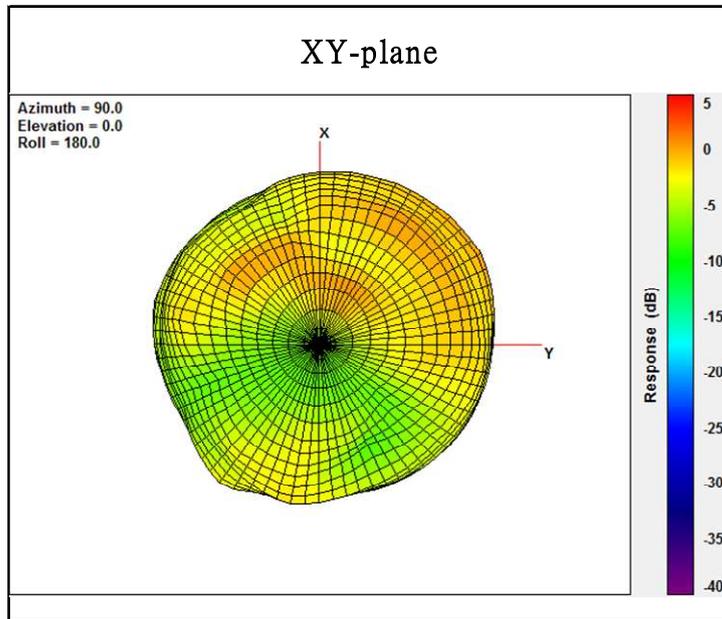
Spec:

4.00 ~ 4.70 GHz > 4

5.00 ~ 6.00 GHz < 4

Radiation pattern open mode

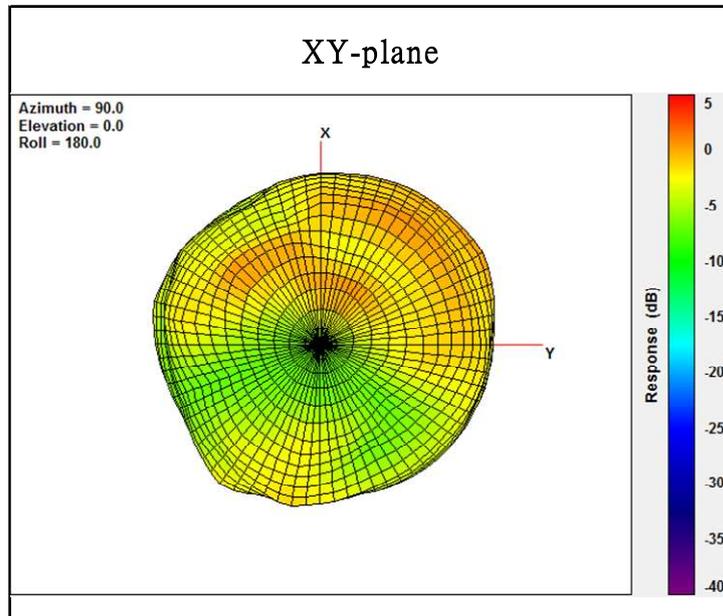
Antenna: 2400MHz



Center Frequency	2400 MHz
Three-dimensional (dBi) peak	1.21

Radiation pattern open mode

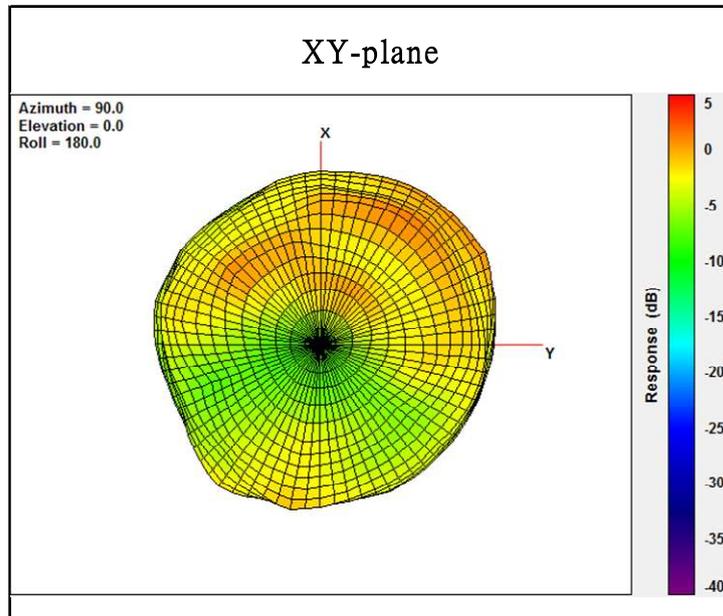
Antenna: 2412MHz



Center Frequency	2412 MHz
Three-dimensional (dBi) peak	1.29

Radiation pattern open mode

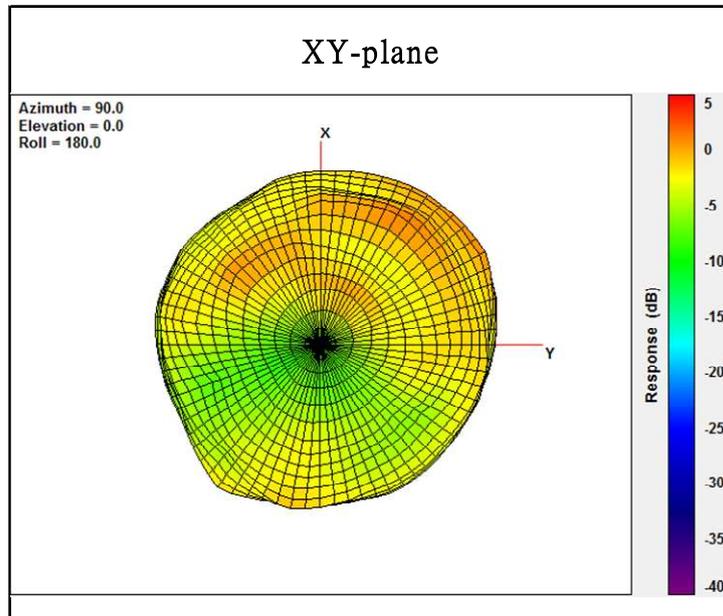
Antenna: 2437MHz



Center Frequency	2437 MHz
Three-dimensional (dBi) peak	1.75

Radiation pattern open mode

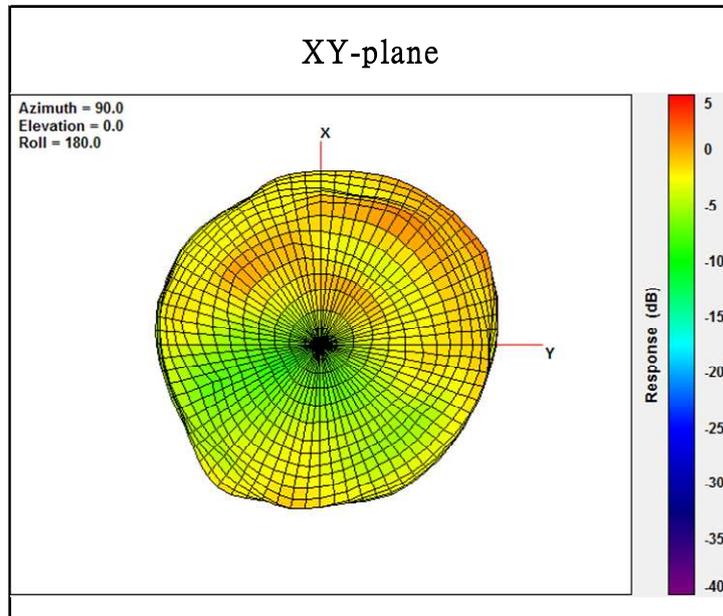
Antenna: 2450MHz



Center Frequency	2450 MHz
Three-dimensional (dBi) peak	1.83

Radiation pattern open mode

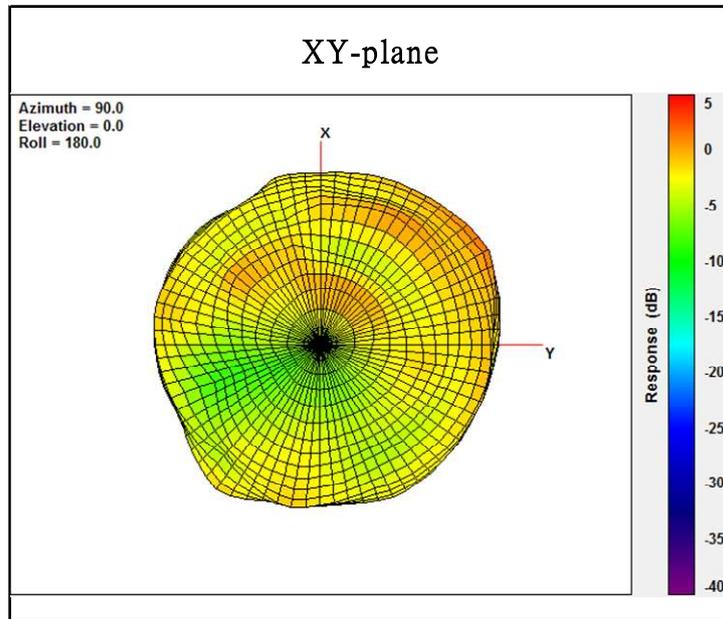
Antenna: 2462MHz



Center Frequency	2462 MHz
Three-dimensional (dBi) peak	1.70

Radiation pattern open mode

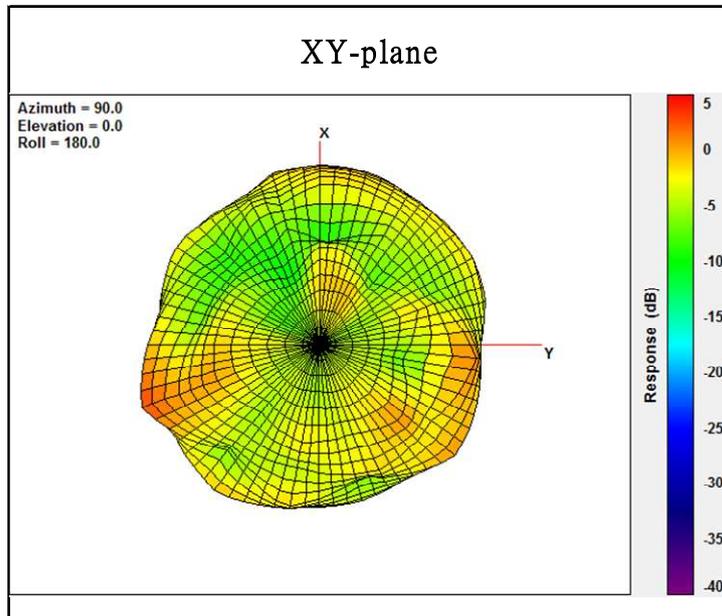
Antenna: 2500MHz



Center Frequency	2500 MHz
Three-dimensional (dBi) peak	2.12

Radiation pattern open mode

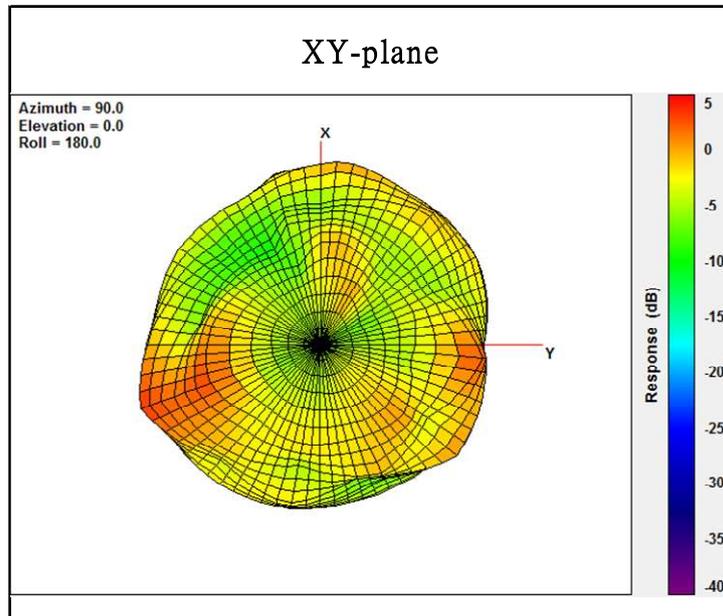
Antenna: 5150MHz



Center Frequency	5150 MHz
Three-dimensional (dBi) peak	3.48

Radiation pattern open mode

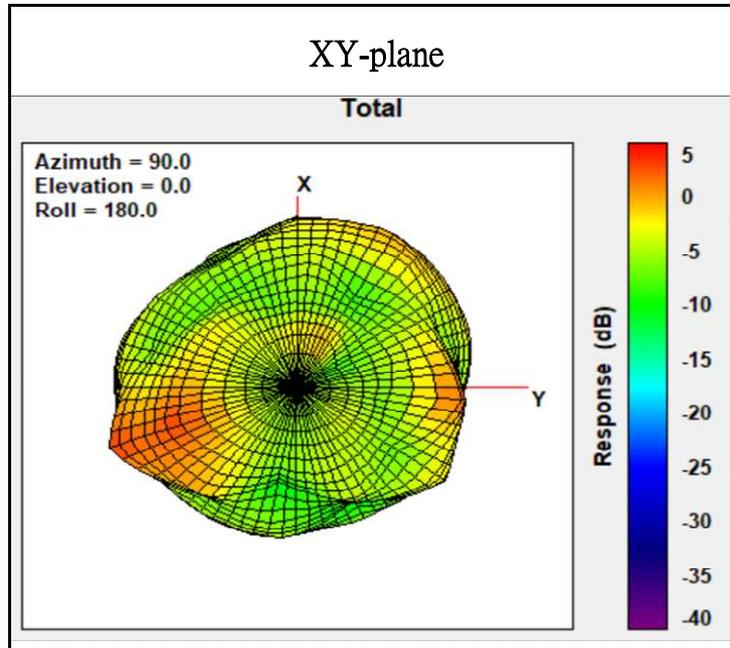
Antenna: 5250MHz



Center Frequency	5250 MHz
Three-dimensional (dBi) peak	3.14

Radiation pattern open mode

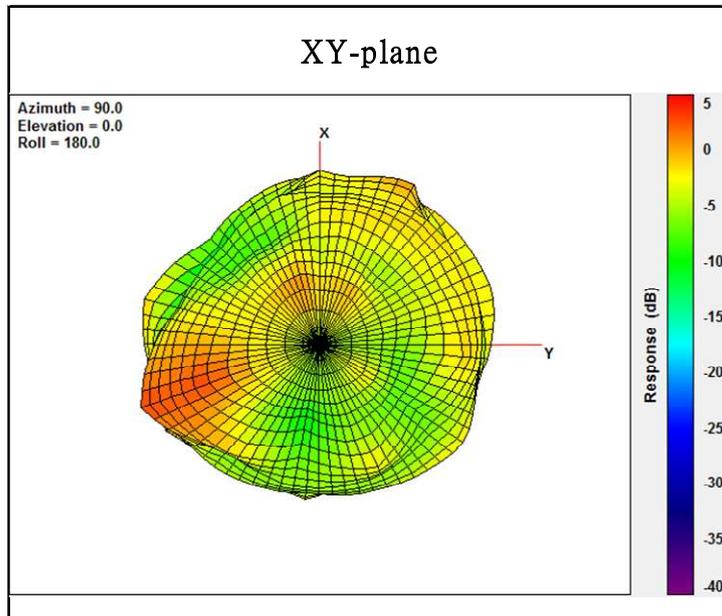
Antenna: 5350MHz



Center Frequency	5350 MHz
Three-dimensional (dBi) peak	3.57

Radiation pattern open mode

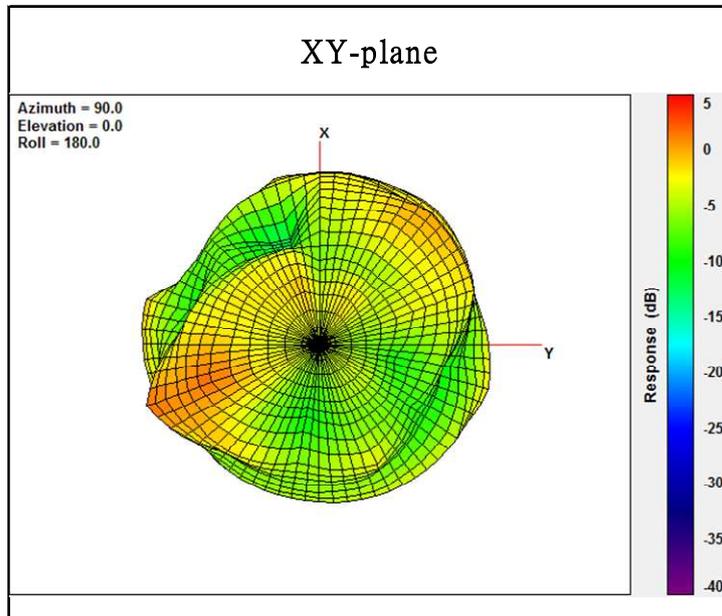
Antenna: 5470MHz



Center Frequency	5470 MHz
Three-dimensional (dBi) peak	3.56

Radiation pattern open mode

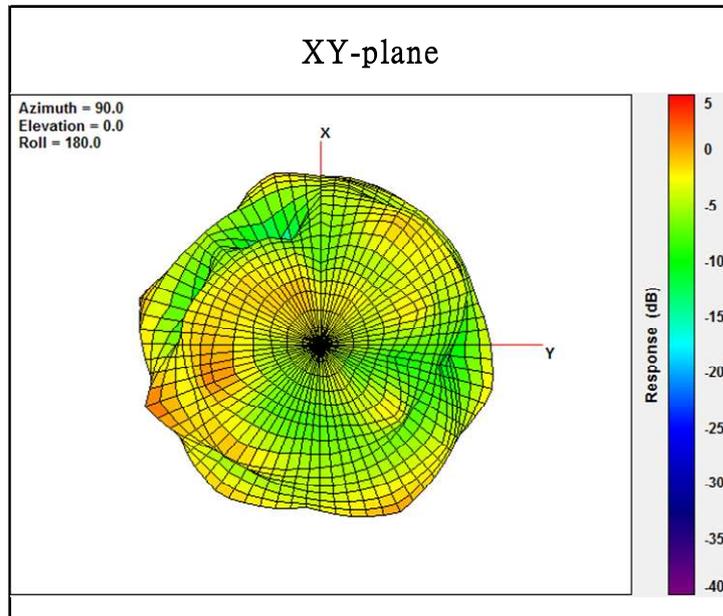
Antenna: 5600MHz



Center Frequency	5600 MHz
Three-dimensional (dBi) peak	2.52

Radiation pattern open mode

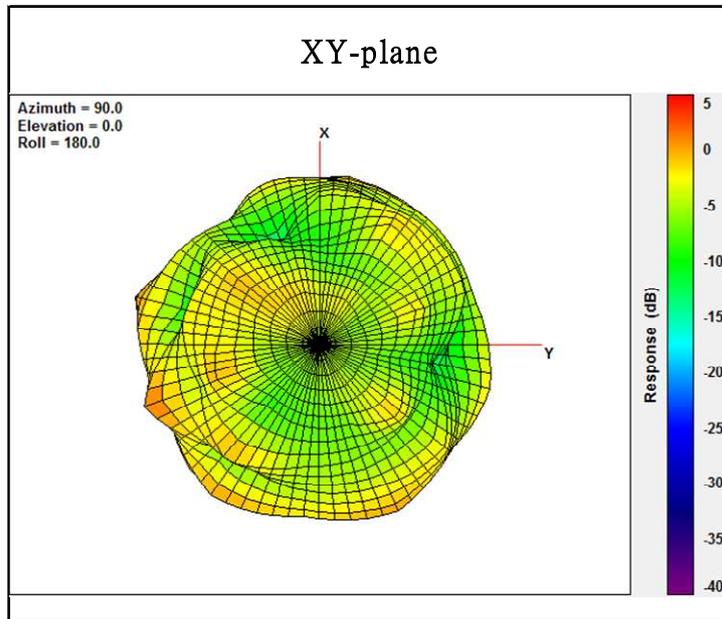
Antenna: 5725MHz



Center Frequency	5725 MHz
Three-dimensional (dBi) peak	3.03

Radiation pattern open mode

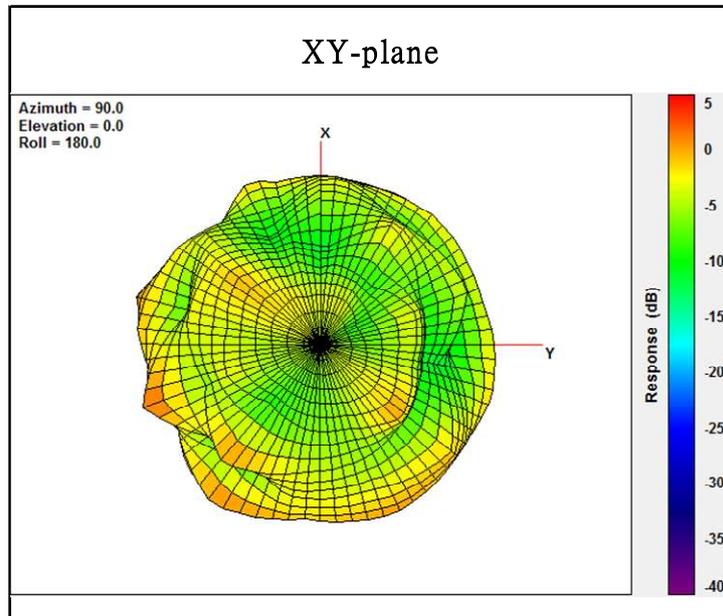
Antenna: 5785MHz



Center Frequency	5785 MHz
Three-dimensional (dBi) peak	2.98

Radiation pattern open mode

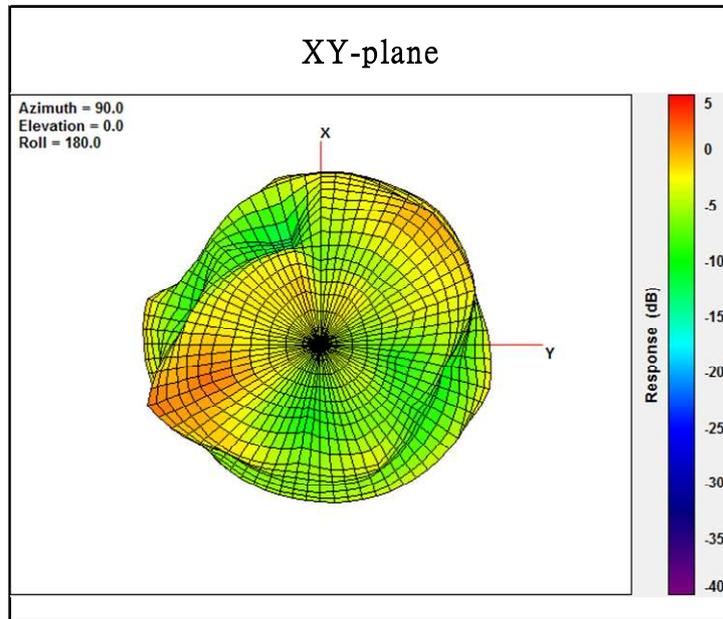
Antenna: 5850MHz



Center Frequency	5850 MHz
Three-dimensional (dBi) peak	3.59

Radiation pattern open mode

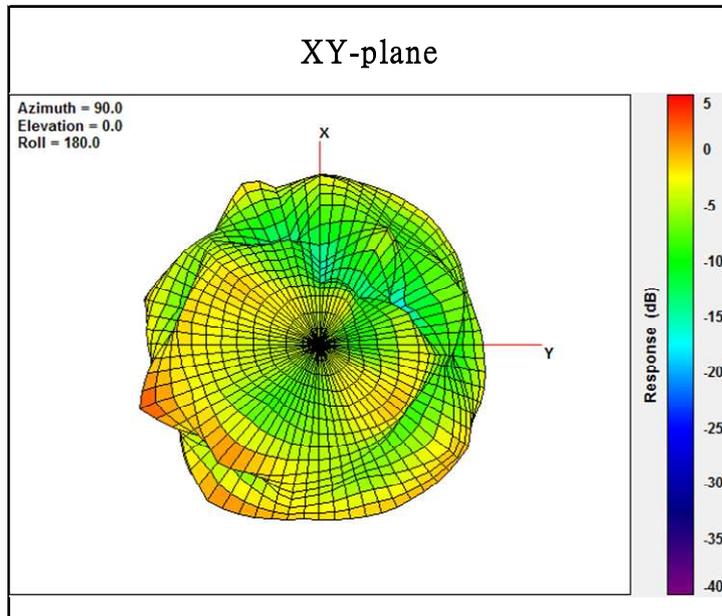
Antenna: 5895MHz



Center Frequency	5895 MHz
Three-dimensional (dBi) peak	2.52

Radiation pattern open mode

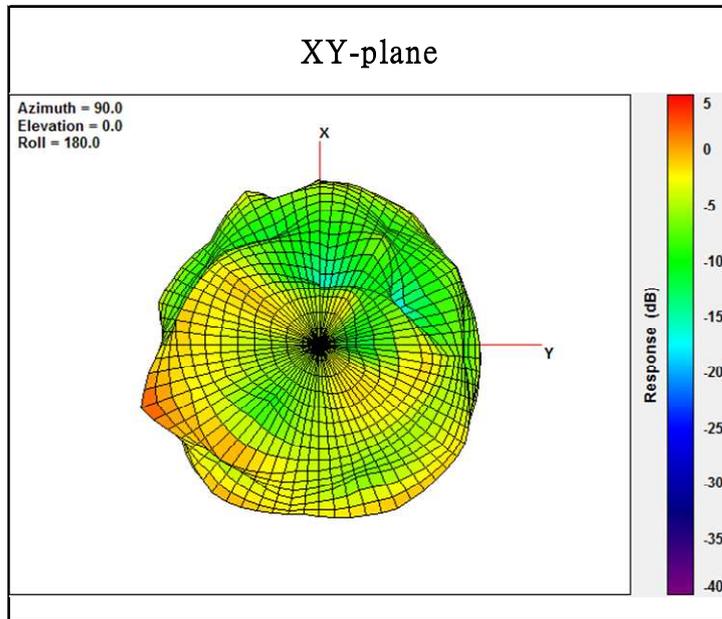
Antenna: 5925MHz



Center Frequency	5925 MHz
Three-dimensional (dBi) peak	4.13

Radiation pattern open mode

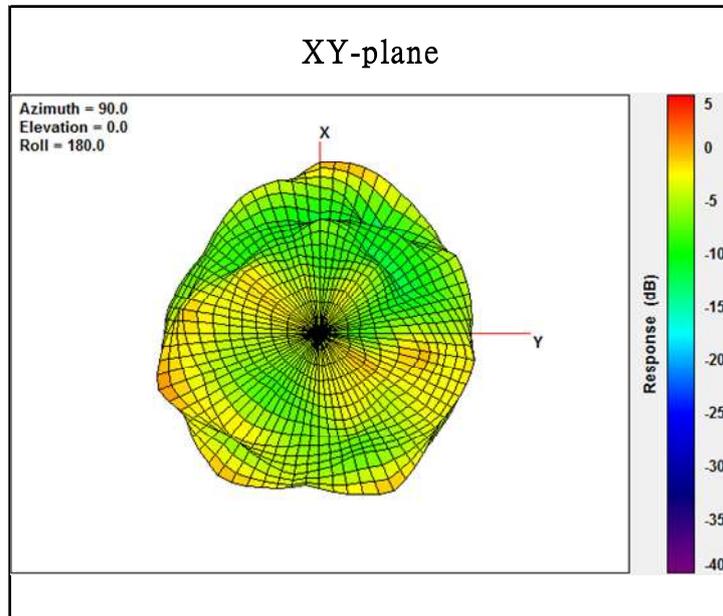
Antenna: 6000MHz



Center Frequency	6000 MHz
Three-dimensional (dBi) peak	3.69

Radiation pattern open mode

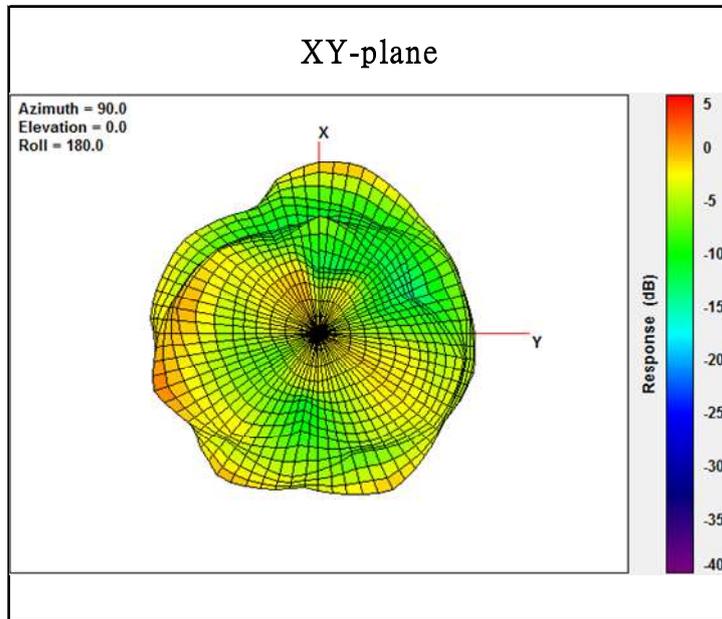
Antenna: 6125MHz



Center Frequency	6125 MHz
Three-dimensional (dBi) peak	1.82

Radiation pattern open mode

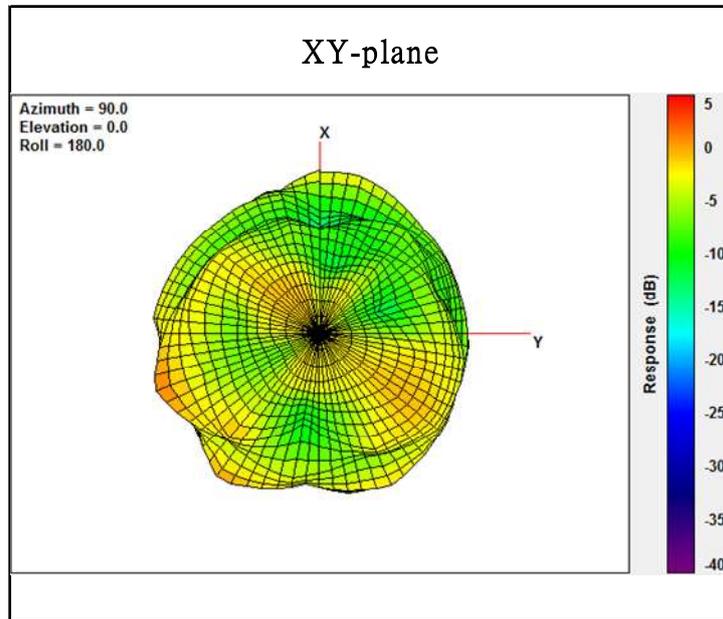
Antenna: 6225MHz



Center Frequency	6225 MHz
Three-dimensional (dBi) peak	2.50

Radiation pattern open mode

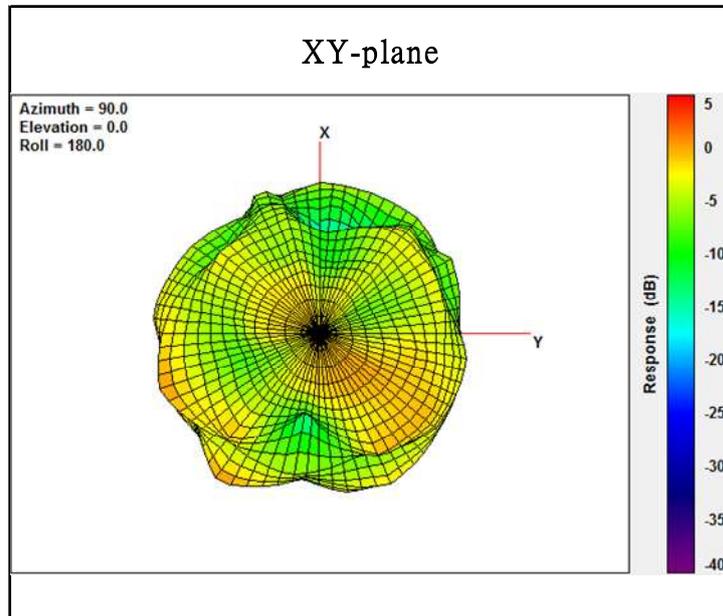
Antenna: 6325MHz



Center Frequency	6325 MHz
Three-dimensional (dBi) peak	2.37

Radiation pattern open mode

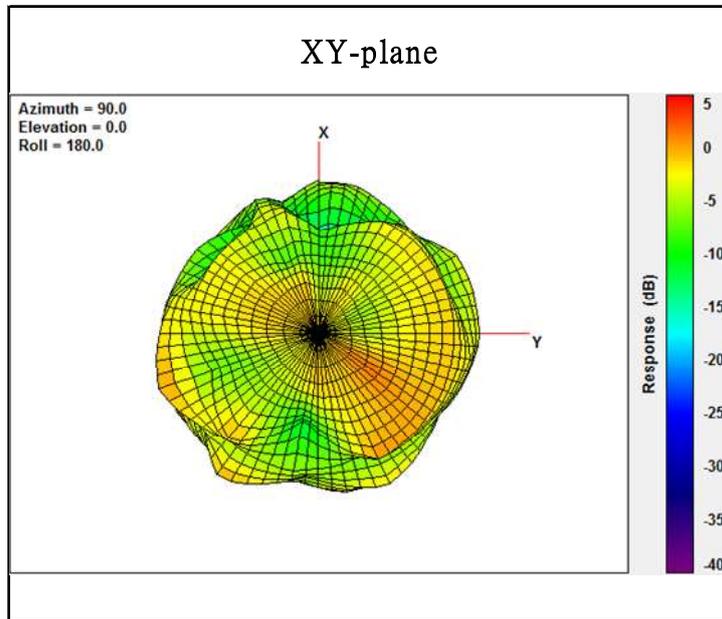
Antenna: 6425MHz



Center Frequency	6425 MHz
Three-dimensional (dBi) peak	1.86

Radiation pattern open mode

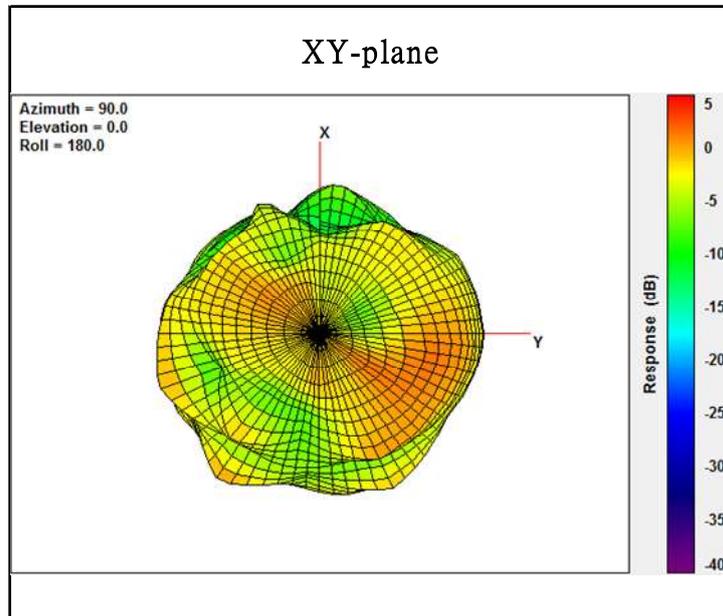
Antenna: 6525MHz



Center Frequency	6525 MHz
Three-dimensional (dBi) peak	1.97

Radiation pattern open mode

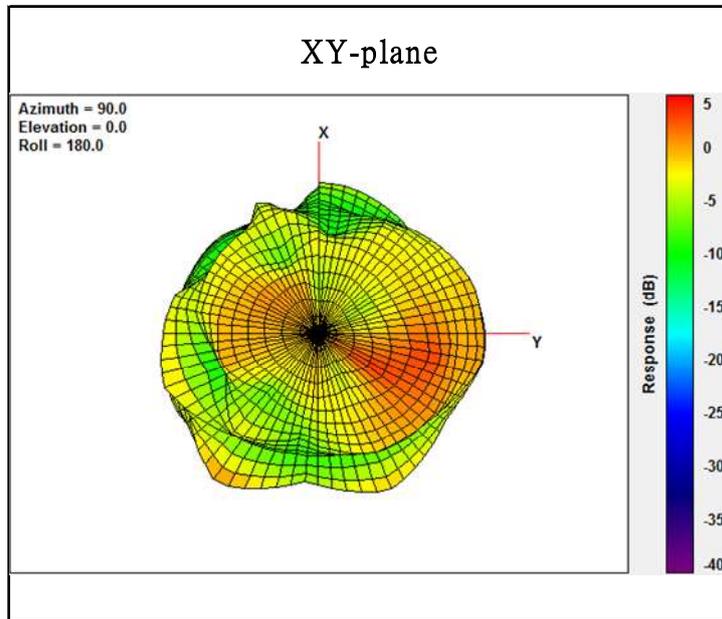
Antenna: 6625MHz



Center Frequency	6625 MHz
Three-dimensional (dBi) peak	2.10

Radiation pattern open mode

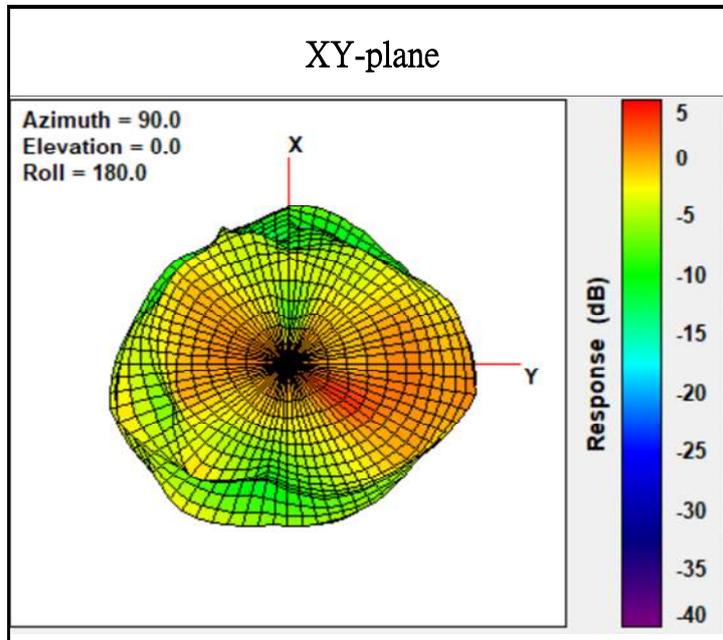
Antenna: 6725MHz



Center Frequency	6725 MHz
Three-dimensional (dBi) peak	3.91

Radiation pattern open mode

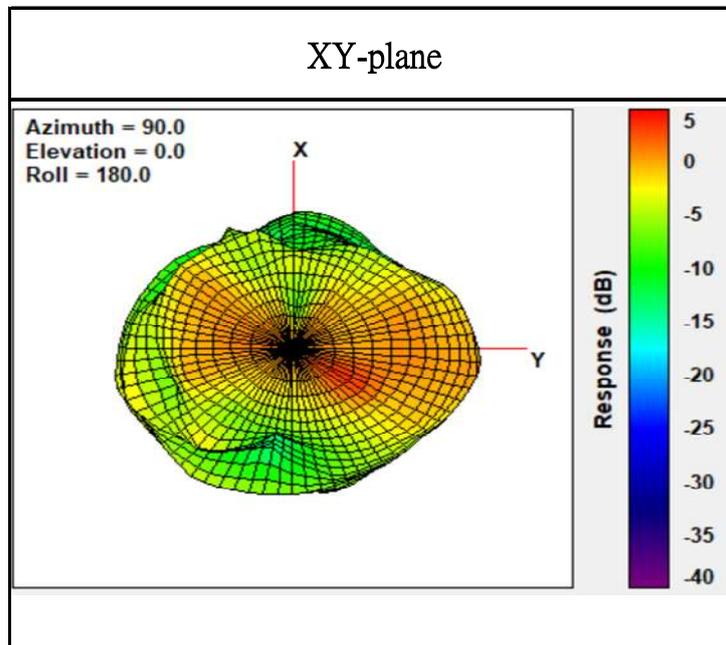
Antenna: 6875MHz



Center Frequency	6875 MHz
Three-dimensional (dBi) peak	4.47

Radiation pattern open mode

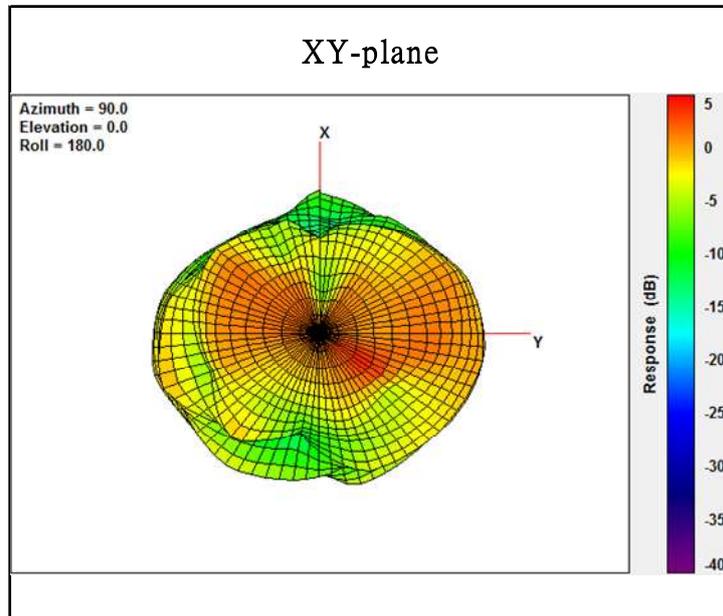
Antenna: 6925MHz



Center Frequency	6925 MHz
Three-dimensional (dBi) peak	4.31

Radiation pattern open mode

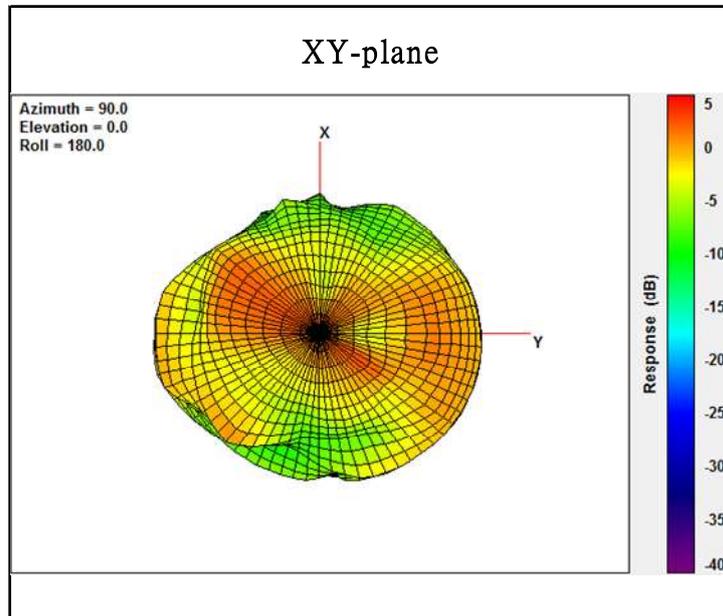
Antenna: 7000MHz



Center Frequency	7000 MHz
Three-dimensional (dBi) peak	4.62

Radiation pattern open mode

Antenna: 7125MHz



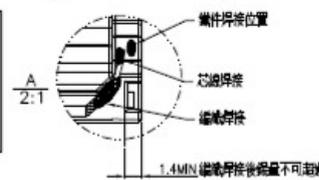
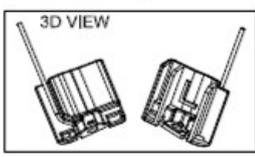
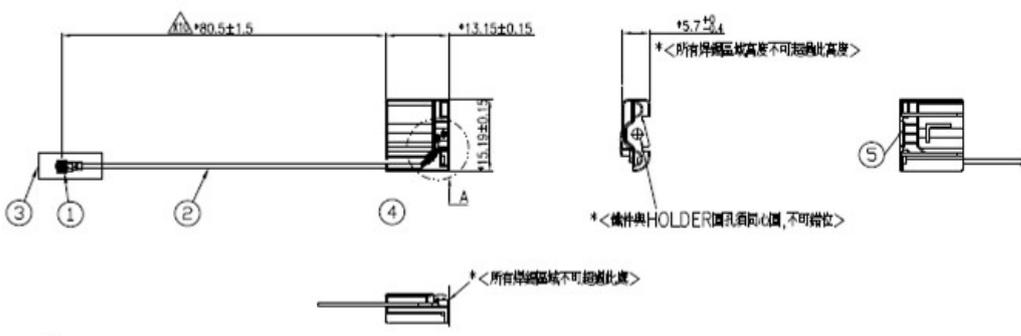
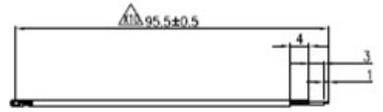
Center Frequency	7125 MHz
Three-dimensional (dBi) peak	3.08

Open Mode Gain Table (dBi)

	3D Peak Gain	3D Gain	Cable Loss
Frequency (MHZ)	Total (dBi)	Efficiency [%]	Loss (dBi)
2400	1.21	45.57	0.19
2412	1.29	46.38	0.19
2437	1.75	48.69	0.19
2450	1.83	49.58	0.20
2462	1.70	50.89	0.20
2500	2.12	52.56	0.20
5150	3.48	46.20	0.29
5250	3.14	52.69	0.30
5350	3.57	52.75	0.30
5470	3.56	45.34	0.30
5600	2.52	40.94	0.30
5725	3.03	46.07	0.31
5785	2.98	47.34	0.31
5850	3.59	51.13	0.31
5895	2.52	41.95	0.31
5925	4.13	48.04	0.31
6000	3.69	41.39	0.31
6125	1.82	36.47	0.31
6225	2.50	37.80	0.32

	3D Peak Gain	3D Gain	Cable Loss
Frequency (MHZ)	Total (dBi)	Efficiency [%]	Loss (dBi)
6325	2.37	37.19	0.32
6425	1.86	37.61	0.32
6525	1.97	37.97	0.32
6625	2.10	41.04	0.32
6725	3.91	38.82	0.32
6875	4.47	39.84	0.32
6925	4.31	35.78	0.32
7000	4.62	36.72	0.32
7125	3.08	36.58	0.32

Assembly Drawing

RoHS + HF		3D VIEW				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DESIGN</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>X1</td><td>NEW DRAWING</td><td>REBECCA</td><td>2020.12.29</td></tr> <tr><td>X2</td><td>WOOFY CABLE OD & CONNECTOR TYPE & H.S TUBE OD</td><td>REBECCA</td><td>2021.01.18</td></tr> <tr><td>X3</td><td>W/Holder & W/Tube</td><td>REBECCA</td><td>2021.02.23</td></tr> <tr><td>X4</td><td>W/Holder & W/Tube</td><td>REBECCA</td><td>2021.04.13</td></tr> <tr><td>X5</td><td>WOOFY CABLE LENGTH</td><td>REBECCA</td><td>2021.04.23</td></tr> <tr><td>X6</td><td>WOOFY CABLE OD & REMOVE H.S TUBE</td><td>REBECCA</td><td>2021.05.06</td></tr> <tr><td>X7</td><td>WOOFY CABLE OD & ADD H.S TUBE</td><td>REBECCA</td><td>2021.05.07</td></tr> <tr><td>X8</td><td>WOOFY CABLE LENGTH: DC & REMOVE H.S TUBE</td><td>REBECCA</td><td>2021.05.10</td></tr> <tr><td>X9</td><td>WOOFY CABLE LENGTH</td><td>REBECCA</td><td>2021.06.24</td></tr> <tr><td>X10</td><td>WOOFY CABLE LENGTH</td><td>REBECCA</td><td>2021.07.02</td></tr> </tbody> </table>		REV	DESCRIPTION	DESIGN	DATE	X1	NEW DRAWING	REBECCA	2020.12.29	X2	WOOFY CABLE OD & CONNECTOR TYPE & H.S TUBE OD	REBECCA	2021.01.18	X3	W/Holder & W/Tube	REBECCA	2021.02.23	X4	W/Holder & W/Tube	REBECCA	2021.04.13	X5	WOOFY CABLE LENGTH	REBECCA	2021.04.23	X6	WOOFY CABLE OD & REMOVE H.S TUBE	REBECCA	2021.05.06	X7	WOOFY CABLE OD & ADD H.S TUBE	REBECCA	2021.05.07	X8	WOOFY CABLE LENGTH: DC & REMOVE H.S TUBE	REBECCA	2021.05.10	X9	WOOFY CABLE LENGTH	REBECCA	2021.06.24	X10	WOOFY CABLE LENGTH	REBECCA	2021.07.02																																							
REV	DESCRIPTION	DESIGN	DATE																																																																																							
X1	NEW DRAWING	REBECCA	2020.12.29																																																																																							
X2	WOOFY CABLE OD & CONNECTOR TYPE & H.S TUBE OD	REBECCA	2021.01.18																																																																																							
X3	W/Holder & W/Tube	REBECCA	2021.02.23																																																																																							
X4	W/Holder & W/Tube	REBECCA	2021.04.13																																																																																							
X5	WOOFY CABLE LENGTH	REBECCA	2021.04.23																																																																																							
X6	WOOFY CABLE OD & REMOVE H.S TUBE	REBECCA	2021.05.06																																																																																							
X7	WOOFY CABLE OD & ADD H.S TUBE	REBECCA	2021.05.07																																																																																							
X8	WOOFY CABLE LENGTH: DC & REMOVE H.S TUBE	REBECCA	2021.05.10																																																																																							
X9	WOOFY CABLE LENGTH	REBECCA	2021.06.24																																																																																							
X10	WOOFY CABLE LENGTH	REBECCA	2021.07.02																																																																																							
						<p>備註:</p> <ol style="list-style-type: none"> 1. 電氣特性必須100%測試以及標註 * 的尺寸須做重點檢驗(SPC) 2. 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 3. 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 4. 所有浮接處錫膏不可超出PCB及零件外,且焊接不可有假焊,錐尖,汗點等不良 																																																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">5</td> <td style="width: 15%;">---</td> <td style="width: 20%;">STAMPING</td> <td style="width: 45%;">SUS430, L5 x W4.94 x H0.3mm</td> <td style="width: 10%; text-align: center;">1</td> </tr> <tr> <td>4</td> <td>---</td> <td>HOLDER</td> <td>MEP XANTAR, L05 3730, COLOR: BLACK</td> <td style="text-align: center;">1</td> </tr> <tr> <td>3</td> <td>---</td> <td>TRANSPARENT TUBE</td> <td>L=10MM</td> <td style="text-align: center;">1</td> </tr> <tr> <td>2</td> <td>---</td> <td>CABLE</td> <td>Ø1A, 1.13MM SINGLE ENDED COAXIAL LOW LOSS CABLE (COLOR: BLACK)</td> <td style="text-align: center;">1</td> </tr> <tr> <td>1</td> <td>---</td> <td>CONNECTOR</td> <td>RFEX 20265-0018-13 FOR CABLE Ø1A, 1.13MM PLUS CONNECTOR AND EQUIVALENT (SPEEDTECH CRP115)</td> <td style="text-align: center;">1</td> </tr> </table>		5	---	STAMPING	SUS430, L5 x W4.94 x H0.3mm	1	4	---	HOLDER	MEP XANTAR, L05 3730, COLOR: BLACK	1	3	---	TRANSPARENT TUBE	L=10MM	1	2	---	CABLE	Ø1A, 1.13MM SINGLE ENDED COAXIAL LOW LOSS CABLE (COLOR: BLACK)	1	1	---	CONNECTOR	RFEX 20265-0018-13 FOR CABLE Ø1A, 1.13MM PLUS CONNECTOR AND EQUIVALENT (SPEEDTECH CRP115)	1	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">DIMENSIONS (mm)</th> </tr> <tr> <th>UNIT</th> <th>TOLERANCE</th> </tr> </thead> <tbody> <tr><td>mm</td><td>± 0.10</td></tr> <tr><td>mm</td><td>± 0.15</td></tr> <tr><td>mm</td><td>± 0.20</td></tr> <tr><td>mm</td><td>± 0.30</td></tr> <tr><td>mm</td><td>± 0.40</td></tr> <tr><td>mm</td><td>± 0.50</td></tr> <tr><td>mm</td><td>± 0.60</td></tr> <tr><td>mm</td><td>± 0.70</td></tr> <tr><td>mm</td><td>± 0.80</td></tr> <tr><td>mm</td><td>± 0.90</td></tr> <tr><td>mm</td><td>± 1.00</td></tr> <tr><td>mm</td><td>± 1.20</td></tr> <tr><td>mm</td><td>± 1.50</td></tr> <tr><td>mm</td><td>± 2.00</td></tr> <tr><td>mm</td><td>± 2.50</td></tr> <tr><td>mm</td><td>± 3.00</td></tr> <tr><td>mm</td><td>± 4.00</td></tr> <tr><td>mm</td><td>± 5.00</td></tr> <tr><td>mm</td><td>± 6.00</td></tr> <tr><td>mm</td><td>± 8.00</td></tr> <tr><td>mm</td><td>± 10.00</td></tr> </tbody> </table>		DIMENSIONS (mm)		UNIT	TOLERANCE	mm	± 0.10	mm	± 0.15	mm	± 0.20	mm	± 0.30	mm	± 0.40	mm	± 0.50	mm	± 0.60	mm	± 0.70	mm	± 0.80	mm	± 0.90	mm	± 1.00	mm	± 1.20	mm	± 1.50	mm	± 2.00	mm	± 2.50	mm	± 3.00	mm	± 4.00	mm	± 5.00	mm	± 6.00	mm	± 8.00	mm	± 10.00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CUSTOMER P/N: 14008-04880100</td> <td style="width: 70%; text-align: center;">LUXSHARE-ICT</td> </tr> <tr> <td>APPO: ANDERSON</td> <td>TITLE: 07402 L-THINSE ANTENNA . ASM</td> </tr> <tr> <td>CHK'D: REBECCA</td> <td>PART NO: LHM244-CS-H</td> </tr> <tr> <td>DRAW: REBECCA</td> <td>SCALE: 1/1</td> </tr> <tr> <td></td> <td>SHEET: 1/1</td> </tr> <tr> <td></td> <td>SIZE: A3</td> </tr> <tr> <td></td> <td>REV: X10</td> </tr> </table>		CUSTOMER P/N: 14008-04880100	LUXSHARE-ICT	APPO: ANDERSON	TITLE: 07402 L-THINSE ANTENNA . ASM	CHK'D: REBECCA	PART NO: LHM244-CS-H	DRAW: REBECCA	SCALE: 1/1		SHEET: 1/1		SIZE: A3		REV: X10
5	---	STAMPING	SUS430, L5 x W4.94 x H0.3mm	1																																																																																						
4	---	HOLDER	MEP XANTAR, L05 3730, COLOR: BLACK	1																																																																																						
3	---	TRANSPARENT TUBE	L=10MM	1																																																																																						
2	---	CABLE	Ø1A, 1.13MM SINGLE ENDED COAXIAL LOW LOSS CABLE (COLOR: BLACK)	1																																																																																						
1	---	CONNECTOR	RFEX 20265-0018-13 FOR CABLE Ø1A, 1.13MM PLUS CONNECTOR AND EQUIVALENT (SPEEDTECH CRP115)	1																																																																																						
DIMENSIONS (mm)																																																																																										
UNIT	TOLERANCE																																																																																									
mm	± 0.10																																																																																									
mm	± 0.15																																																																																									
mm	± 0.20																																																																																									
mm	± 0.30																																																																																									
mm	± 0.40																																																																																									
mm	± 0.50																																																																																									
mm	± 0.60																																																																																									
mm	± 0.70																																																																																									
mm	± 0.80																																																																																									
mm	± 0.90																																																																																									
mm	± 1.00																																																																																									
mm	± 1.20																																																																																									
mm	± 1.50																																																																																									
mm	± 2.00																																																																																									
mm	± 2.50																																																																																									
mm	± 3.00																																																																																									
mm	± 4.00																																																																																									
mm	± 5.00																																																																																									
mm	± 6.00																																																																																									
mm	± 8.00																																																																																									
mm	± 10.00																																																																																									
CUSTOMER P/N: 14008-04880100	LUXSHARE-ICT																																																																																									
APPO: ANDERSON	TITLE: 07402 L-THINSE ANTENNA . ASM																																																																																									
CHK'D: REBECCA	PART NO: LHM244-CS-H																																																																																									
DRAW: REBECCA	SCALE: 1/1																																																																																									
	SHEET: 1/1																																																																																									
	SIZE: A3																																																																																									
	REV: X10																																																																																									
REV	PART NO	NAME	DESCRIPTION	QTY																																																																																						
1	2	3	4	5	6	7	8																																																																																			