



規格承認書  
Specification for Approval

客 戶： 訊舟  
Customer  
品 名： DUAL BAND DIPOLE ANT 黑 + I-PEX LOW LOSS CABLE/白 + CORE / MSI (驊陞)  
Part name  
料 號： ARY121-0307-003-00  
Part No.  
客戶料號： 1680-00000720-50U  
Customer Part No.  
Rev.(版本): 02  
規 格： 2.4/5G 2.07/4.73dBi ANT=195.5 / L=102mm

| 客戶承認印 CUSTOMER APPROVED BY |       |            |
|----------------------------|-------|------------|
| APPROVAL                   | CHIEF | SUPERVISOR |
|                            |       |            |
| Approval No.               |       |            |
| Model                      |       |            |
| Part No.                   |       |            |

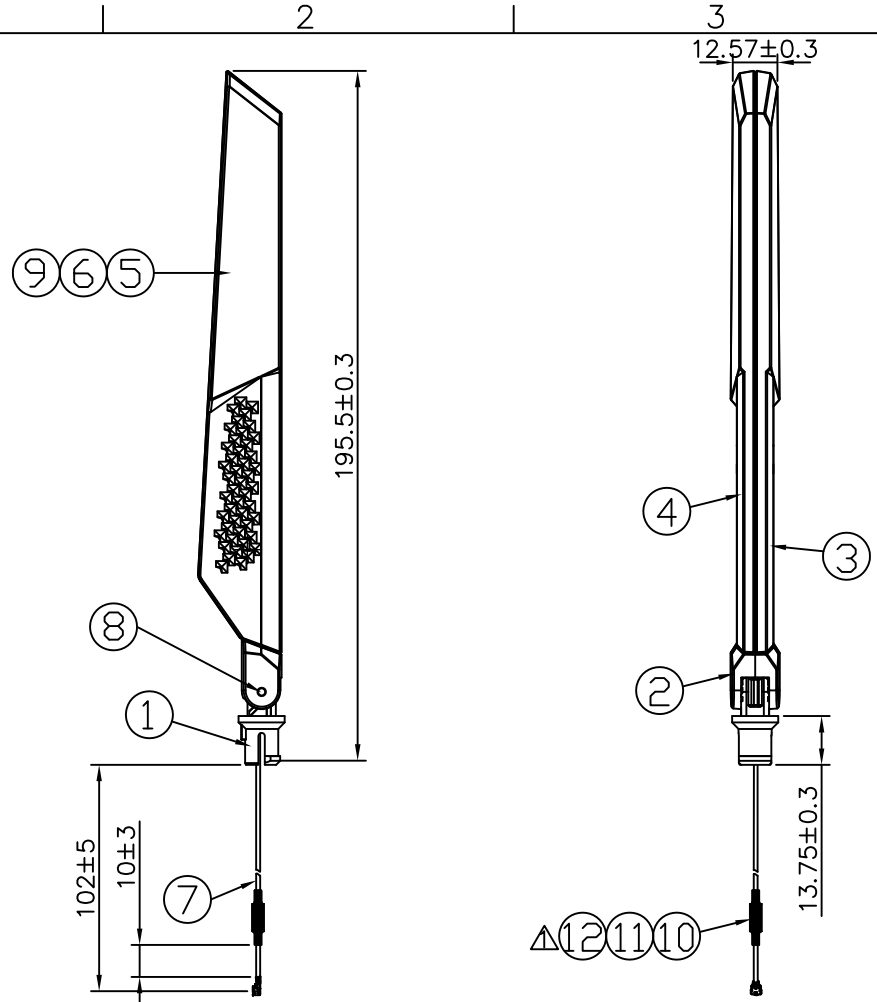
| CHIEF   | SALES | R&D              | DESIGN |
|---|-------|------------------|--------|
| ROX   | Grant | ROX              | REASON |
| Date: 2022/06/22                                    |       | Date: 2022/06/22 |        |
| <b>驊陞科技股份有限公司<br/>WIESON TECHNOLOGIES CO., LTD.</b> |       |                  |        |

表格編號：324012 版本：第四版

RoHS Compliant

| REV | DATE     | DESCRIPTION | NAME |
|-----|----------|-------------|------|
| A1  | 22.03.31 | PROPOSAL    | LIEF |
| A2  | 22.06.20 | △ADD CORE   | LIEF |

A  
B  
C  
D  
E



Note: △  
 1. Frequency: 2.4~2.5GHz:  
 Peak Gain: 2.07dBi(MAX), V.S.W.R.: <2 (with case)  
 Frequency: 5.15~5.85GHz:  
 Peak Gain: 4.73dBi(MAX), V.S.W.R.: <2 (with case)  
 2. Efficiency: >59%(with case)  
 3. Impedance: 50ohm

| NO. | ITEM             | DESCRIPTION   | QTY |
|-----|------------------|---|-----|
| ⑫   | HEAT SHRINK TUBE | COLOR : White , OD4*L20mm   | 1   |
| ⑪   | HEAT SHRINK TUBE | COLOR : Black , OD1.6*L5mm  | 2   |
| ⑩   | CORE             | Magnetic Core OD4.0*ID2.0*L10mm   | 1   |
| ⑨   | HEAT SHRINK TUBE | COLOR : Black   | 1   |
| ⑧   | Fixed Pin        | Fixed Pin , Black Coating   | 2   |
| ⑦   | CABLE            | OD:1.37 , WHITE LOW LOSS COAXIAL CABLE WITH MHF I Plug For 1.37mm Cable | 1   |
| ⑥   | COPPER TUBE-2    | BRASS   | 1   |
| ⑤   | COPPER TUBE-1    | BRASS   | 1   |
| ④   | COVER-2          | COVER , Black   | 1   |
| ③   | COVER-1          | COVER , Black   | 1   |
| ②   | BASE-2           | BASE, Black   | 1   |
| ①   | BASE-1           | BASE, Black   | 1   |

|                                |           |                              |        |
|--------------------------------|-----------|------------------------------|--------|
|                                |           | PART NO.: ARY121-0307-003-00 |        |
| TITLE: Dual Band Antenna(Ant3) |           |                              |        |
| DRAWN BY                       | LIEF(WST) | DRAWING NO.                  |        |
| CHECKED BY                     |           | DRAWING SIZE                 | A4     |
| APPROVED BY                    |           | UNIT                         | mm     |
| SORTING NO.                    | WSC       | PAGE                         | 1 OF 1 |



| ITEM | INDEX                        | PAGE |
|------|------------------------------|------|
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| 2.   | BOM.....                     | 2    |
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| 4.   | WIESON ISO APPROVAL.....     | 14   |

*WIESON*



|     |          |             |           | Approvals   |                |
|-----|----------|-------------|-----------|-------------|----------------|
| Rev | Date     | Description | Edited by | Prepared :  | REASON         |
| 01  | 22.04.18 | ISSUE       | WAH       | Checked :   | JOSN           |
| 02  | 22.06.22 | UPDATE      |           | Approved :  | ROX            |
|     |          |             |           | Issued No : | 02             |
|     |          |             |           | Sheet :     | <b>1 OF 14</b> |
|     |          |             |           |             |                |
|     |          |             |           |             |                |



# WIESON TECHNOLOGIES CO.,LTD

## *BILL OF MATERIAL*

| Cust.    | 訊舟  | TITLE      | RF ANTENNA         |        |     |          |        |
|----------|---|------------|--------------------|--------|-----|----------|--------|
| Cust.P/N |   | WIESON P/N | ARY121-0307-003-00 |        |     |          |        |
| NO.      | DESCRIPTION   | SUPPLIER   | SUPPLIER PART NO.  | UL NO. | AVL | QUANTITY | REMARK |
| 1        | BASE1, Black  | /          | BASE1              | /      |     | PCS      |        |
| 2        | BASE2 Black   | /          | BASE2              | /      |     | PCS      |        |
| 3        | COVER1, Black   | /          | COVER1             | /      |     | PCS      |        |
| 4        | COVER2, Black   | /          | COVER2             |        |     | PCS      |        |
| 5        | COPPER TUBE-1 BRASS   |            | COPPER TUBE        |        |     | PCS      |        |
| 6        | COPPER TUBE-2BRASS  |            | COPPER TUBE        |        |     | PCS      |        |
| 7        | OD:1.37 , WHITE LOW LOSS COAXIAL CABLE WITH MHF I Plug For 1.37mm Cable |            | CABLE              |        |     | MM       |        |
| 8        | Fixed Pin , Black Coating   |            | FIXED PIN          |        |     | PCS      |        |
| 9        | HEAT SHRINK TUBE COLOR : Black  |            | TUBE               |        |     | MM       |        |
| 10       | Magnetic Core OD4.0*ID2.0*L10mm   |            | CORE               |        |     | PCS      |        |
| 11       | TUBE COLOR : Black , OD1.6*L5mm   |            | TUBE               |        |     | MM       |        |
| 12       | TUBE COLOR : Black , OD4*L20mm  |            | TUBE               |        |     | MM       |        |

**APPROVED BY: ROX**

**CHECKD BY: JOSN**

**DESIGNED BY: REASON**



**EDIMAX BR6893MGL**  
**ARY121-0307-003-00 (Ant3)**  
**2GHz(Peak Gain:2.07dBi)**  
**5GHz(Band 1 Peak Gain:4.59dBi 、**  
**Band 2 Peak Gain:4.65dBi)**



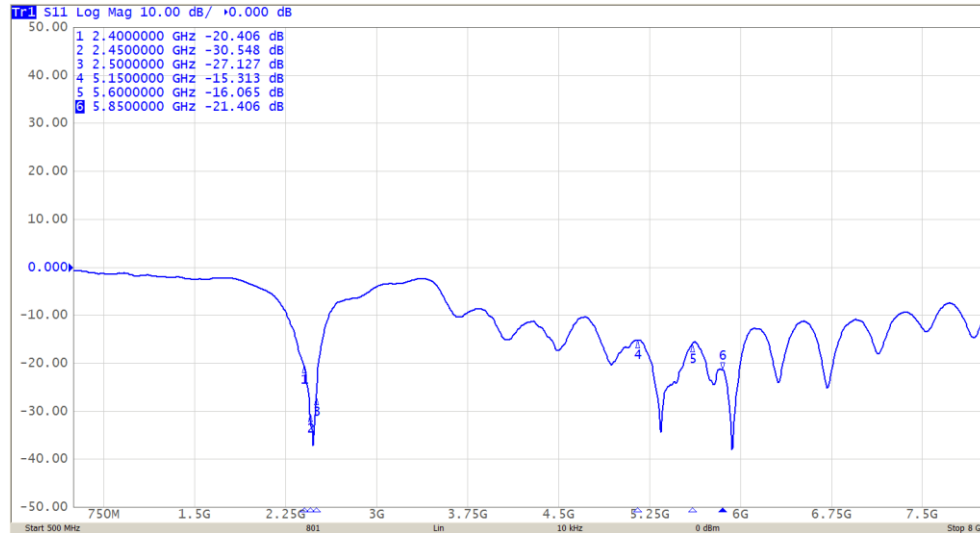
**Engineer : Wade**  
**Report date : 2022/06/13**



# Antenna Specification

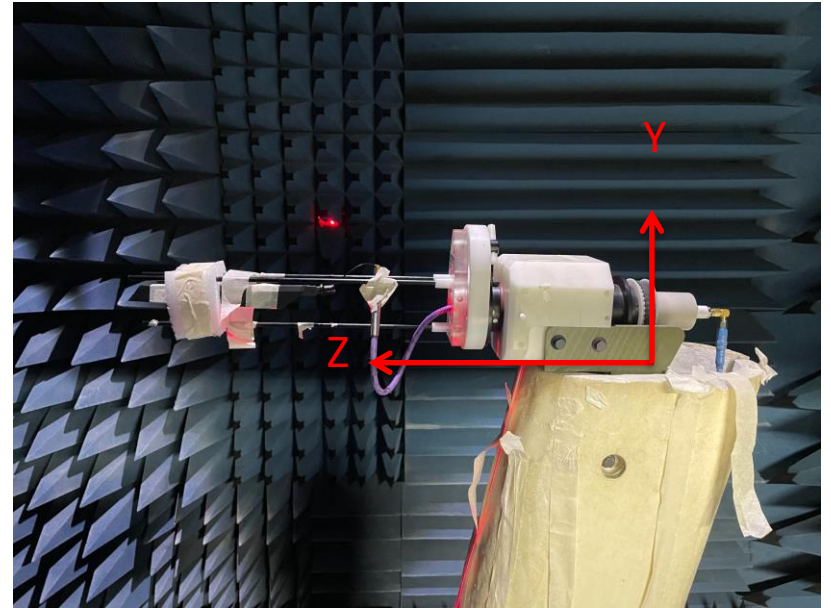
| Ant3                  | Specification    | Specification    |
|-----------------------|------------------|------------------|
| Frequency(GHz)        | 2.4~2.5          | 5.15-5.85        |
| Bandwidth             | 100MHz (Min.)    | 700MHz (Min.)    |
| Return Loss           | 10 dB (Min)      | 10 dB (Min)      |
| Polarization          | Linear           | Linear           |
| Azimuth Bandwidth     | Omni-directional | Omni-directional |
| Peak Gain             | 2.07 dBi (Max)   | 4.73 dBi (Max)   |
| Impedance             | 50Ω              | 50Ω              |
| Material              | Copper tube      | Copper tube      |
| Maximum Power         | 1W               | 1W               |
| V.S.W.R               | 2 : 1            | 2 : 1            |
| Radiation             | Omni directional | Omni directional |
| Efficiency            | >60% (Typical)   | >59% (Typical)   |
| Connector             | MHF I            | MHF I            |
| Cable type            | OD:1.37          | OD:1.37          |
| Operating Temperature | -10~60°C         | -10~60°C         |
| Storage temp          | -10~70°C         | -10~70°C         |

# Return Loss



|           |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|
| Freq(MHz) | 2400  | 2450  | 2500  | 5150  | 5600  | 5850  |
| S11(dB)   | -20.4 | -30.5 | -27.1 | -15.3 | -16.0 | -21.4 |

# Chamber measurement photo





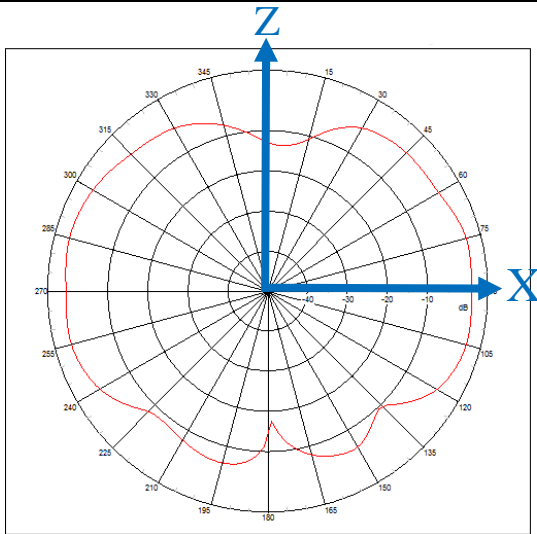
# 3D Gain Total

| Freq(MHz) | Peak Gain(dBi) | 3D-avg Gain(dBi) | Efficiency(%) |
|-----------|----------------|------------------|---------------|
| 2400      | 1.62           | -1.37            | 73            |
| 2450      | 2.07           | -0.92            | 81            |
| 2500      | 1.77           | -1.25            | 75            |
| 5150      | 4.39           | -2.31            | 59            |
| 5250      | 4.59           | -2.03            | 63            |
| 5350      | 4.65           | -1.57            | 70            |
| 5470      | 3.98           | -1.78            | 66            |
| 5600      | 3.99           | -1.51            | 71            |
| 5725      | 3.99           | -1.25            | 75            |
| 5785      | 4.07           | -1.19            | 76            |
| 5850      | 4.73           | -0.4             | 91            |

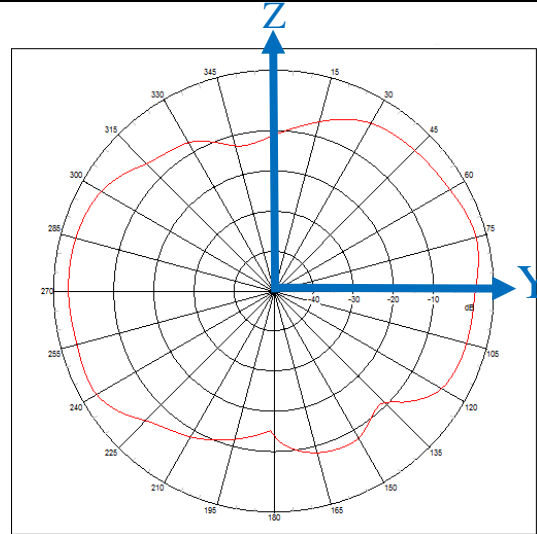
# Antenna Pattern Wieson

Frequency: 2450MHz

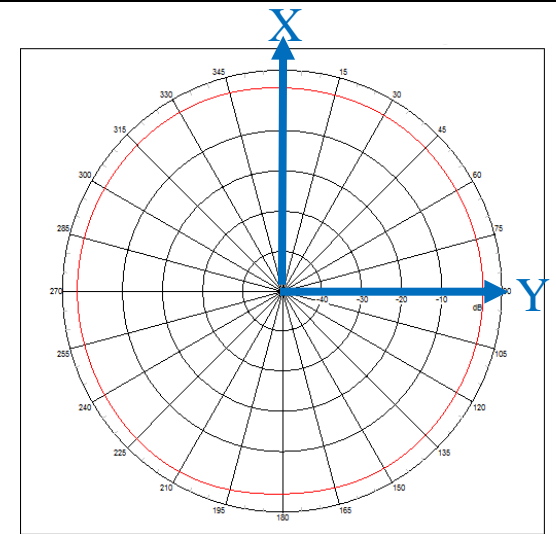
## ZX-plane



## YZ-plane



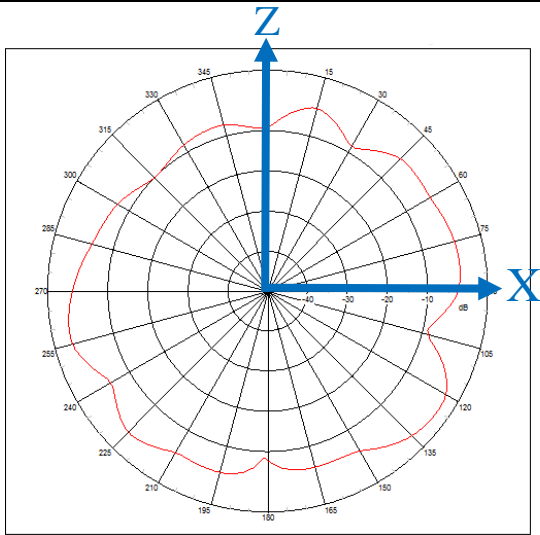
## XY-plane



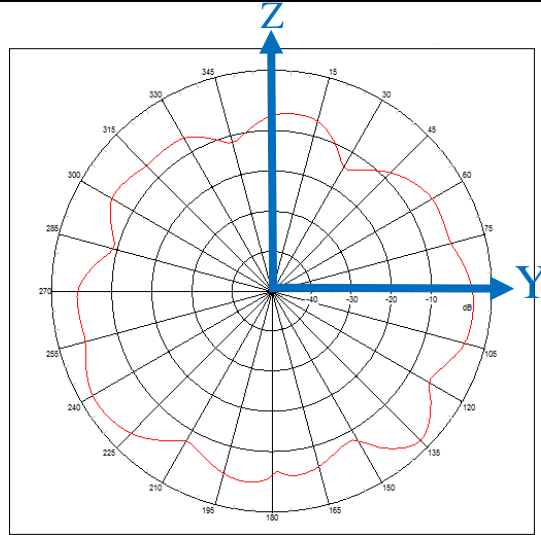
# Antenna Pattern Wieson

Frequency: 5150MHz

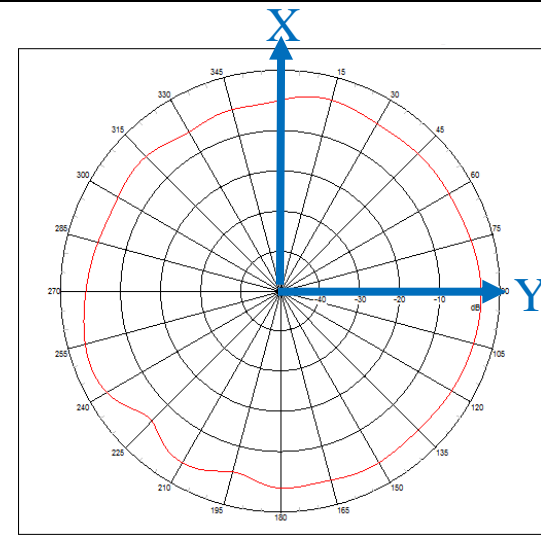
## ZX-plane



## YZ-plane



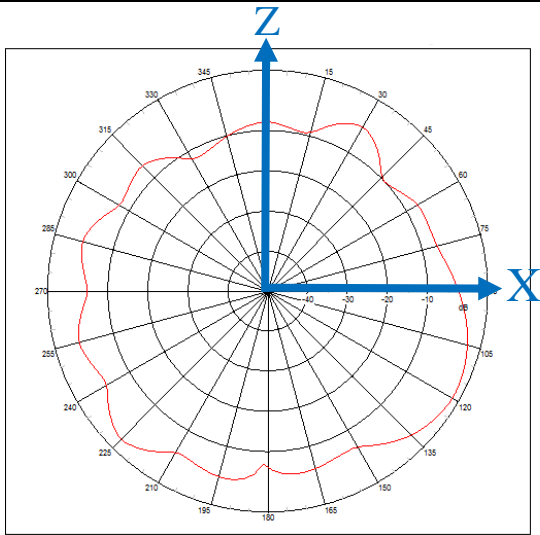
## XY-plane



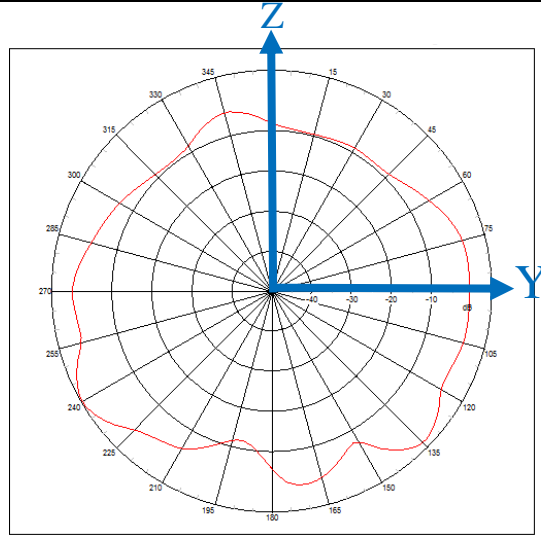
# Antenna Pattern Wieson

Frequency: 5600MHz

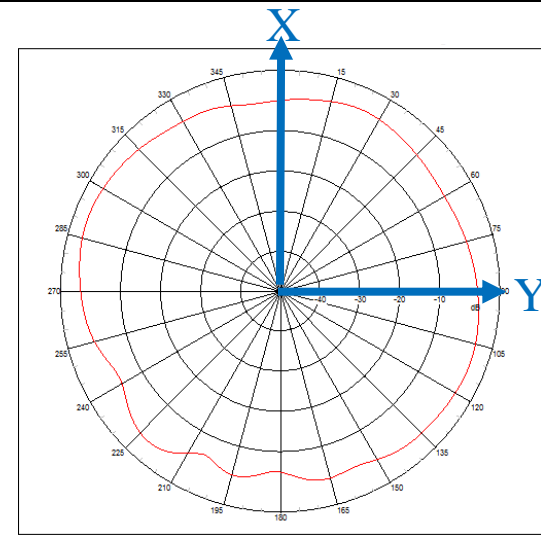
## ZX-plane



## YZ-plane



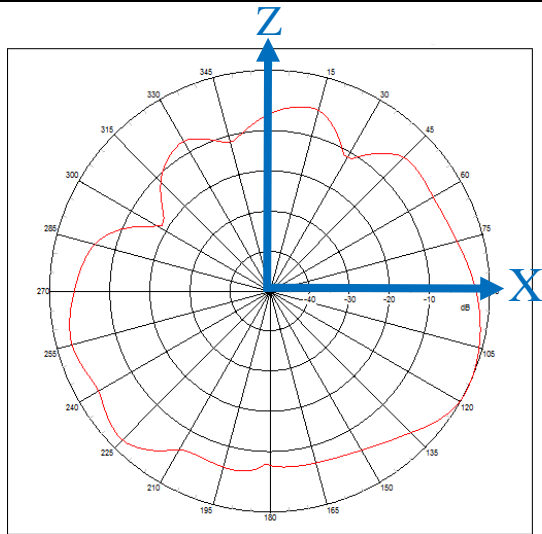
## XY-plane



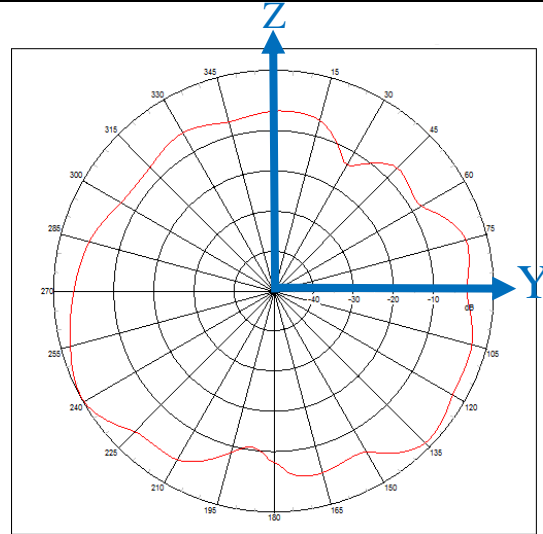
# Antenna Pattern Wieson

Frequency: 5850MHz

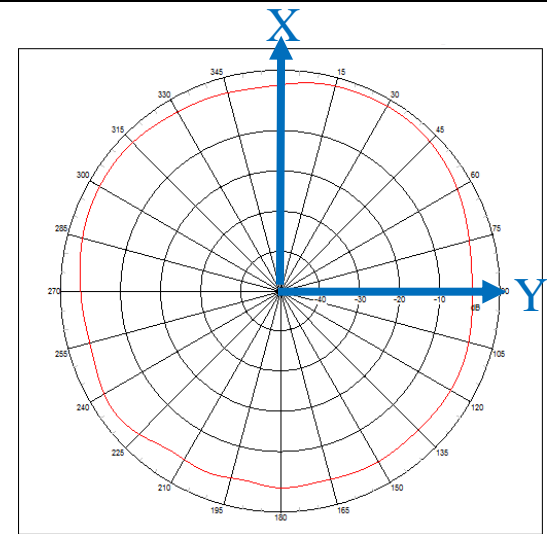
## ZX-plane



## YZ-plane



## XY-plane





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N° 2016/70254.3

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Unified Social Credit Code / Code Crédit Social Unifié / 统一社会信用代码 : 914419006181620014

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pour les activités suivantes :

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**2021-01-18**

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**Managing Director of AFNOR Certification**  
*Directeur Général d'AFNOR Certification*

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