

# **WIFI 2.4/5G**

## **antenna test report**

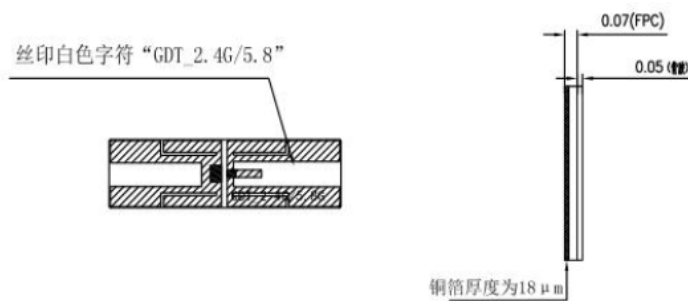
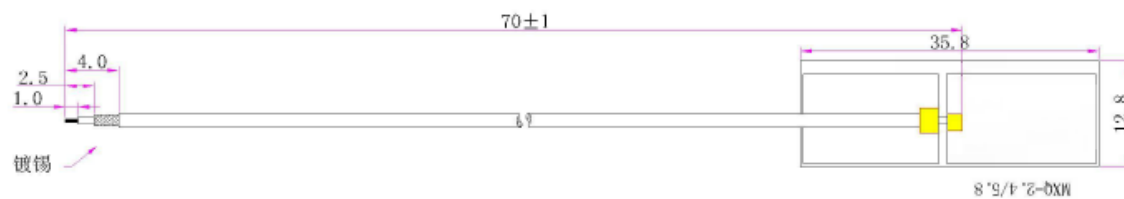
Model: GDT--2PWIFI-120

Manufacturer: Shenzhen Qianfeng Technology Co., Ltd.

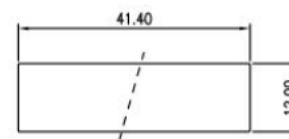
Jeany Ling

Nov. 23, 2022

- Antenna structure mm
- Photo

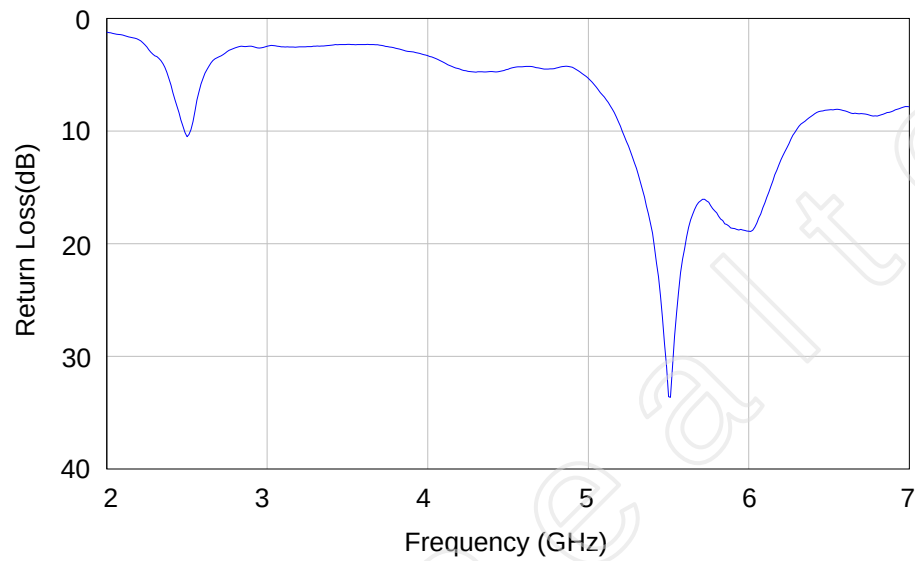


产品正面 (哑光黑色油墨)



产品背面 (背胶)

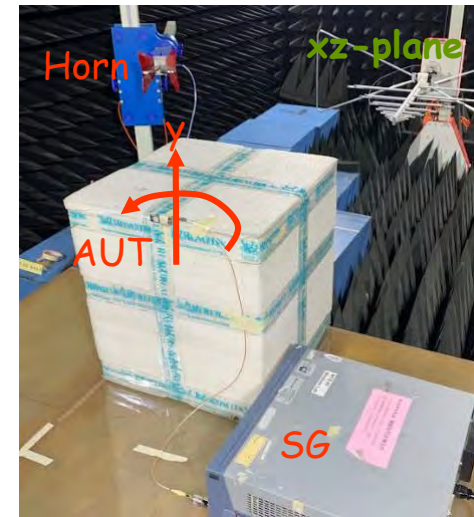
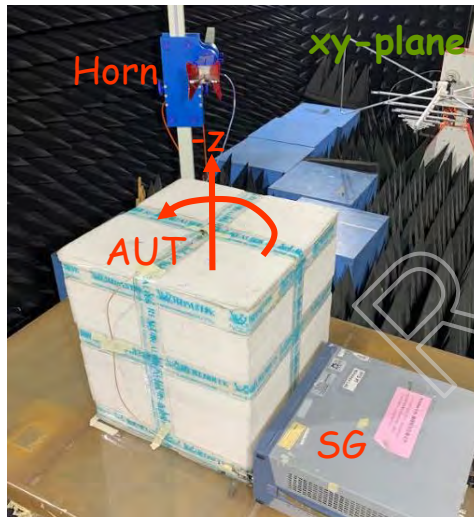
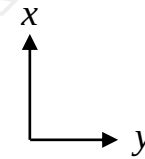
- Return Loss



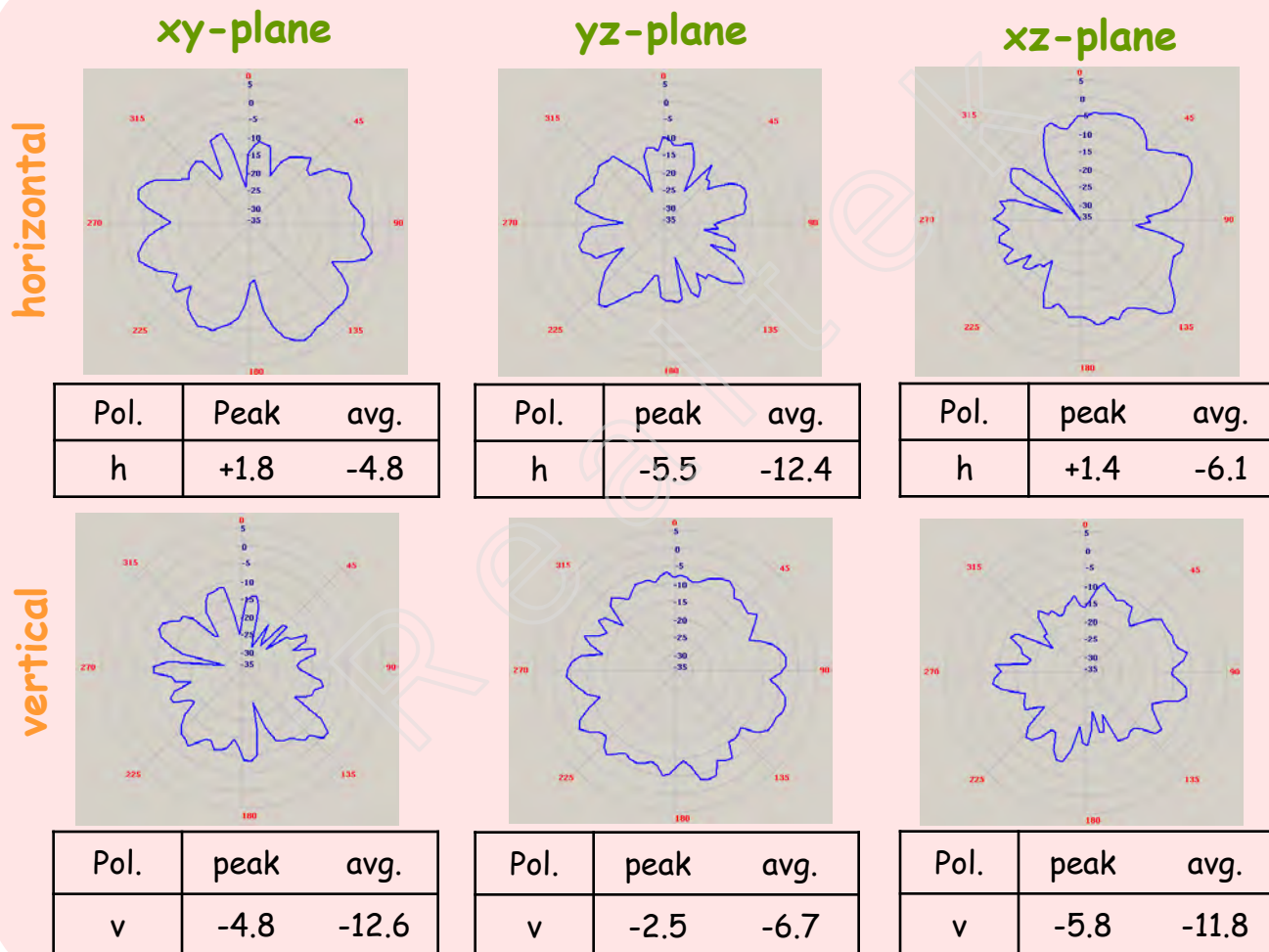
\* C4=C5=NC, L1=0ohm

- **Radiation Patterns**

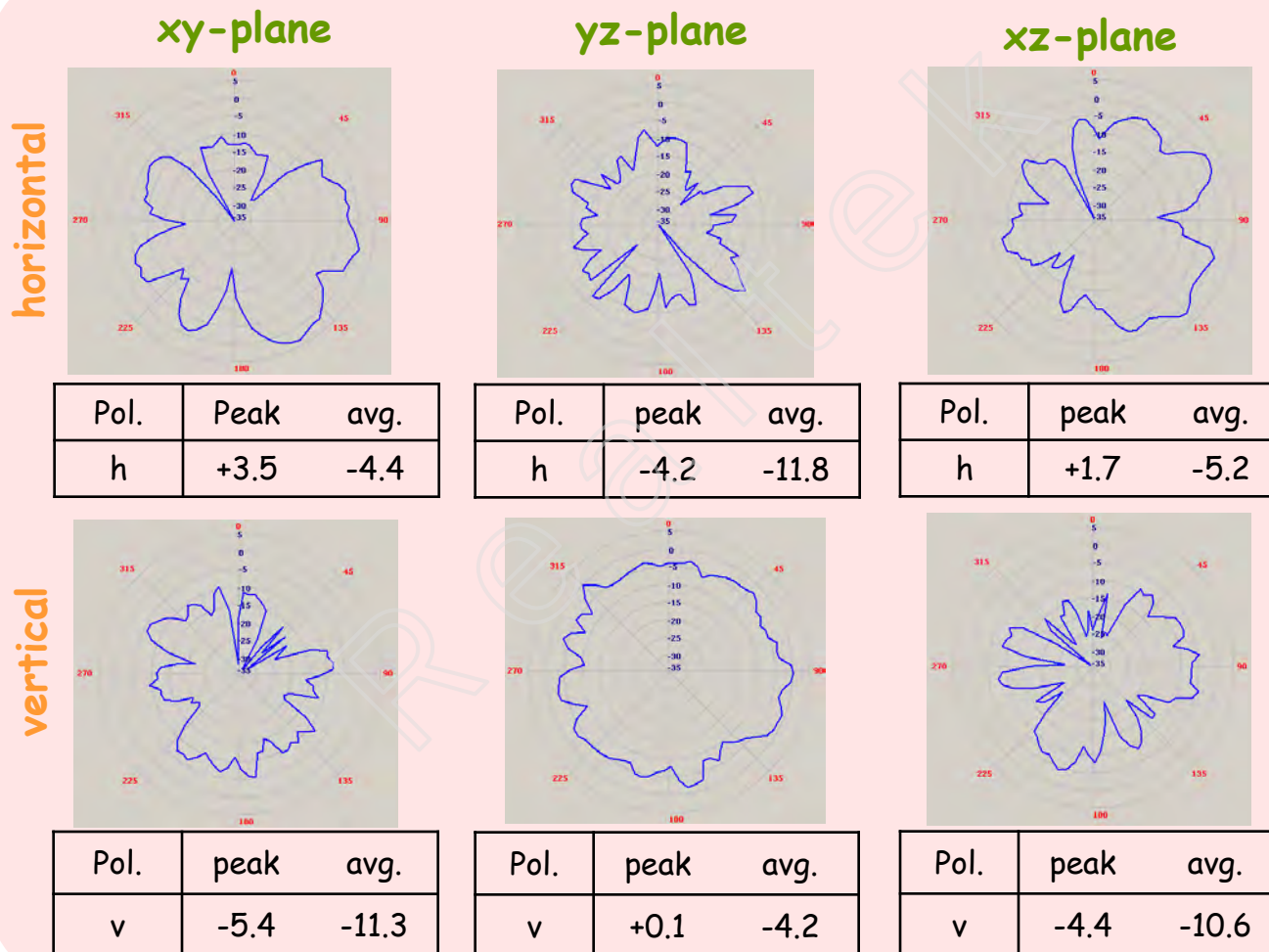
- Frequency : 2400MHz, 2450MHz, 2480MHz, 5150MHz, 5500MHz, 5850MHz and 5925MHz
- Test plane : xy-plane, xz-plane and yz-plane
- Input power : SG 0dBm
- Place: RTK 4F chamber
- Horn h: horizontal polarization
- Horn v: vertical polarization



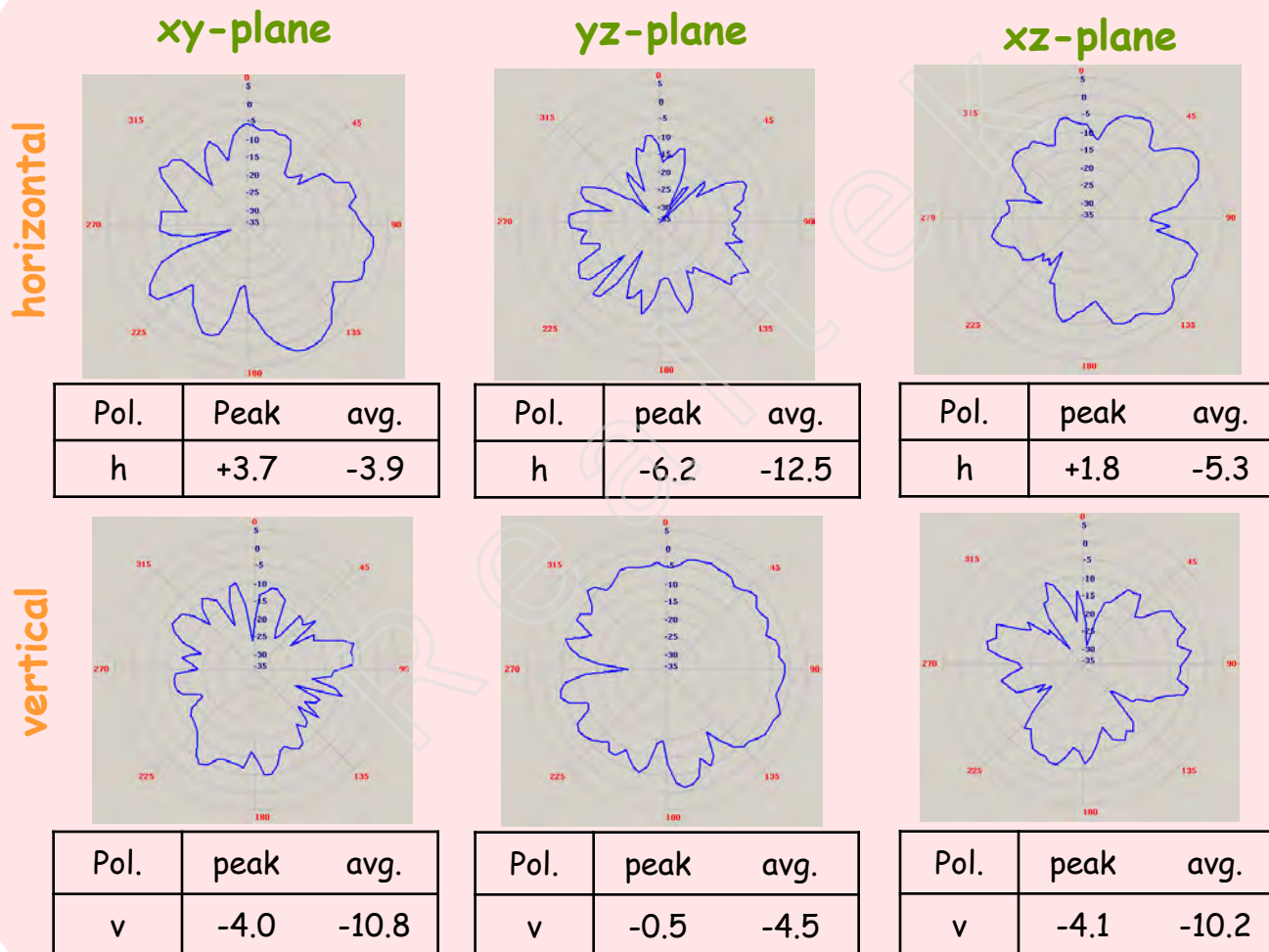
- Radiation Patterns – 2400 MHz



- Radiation Patterns – 2450 MHz

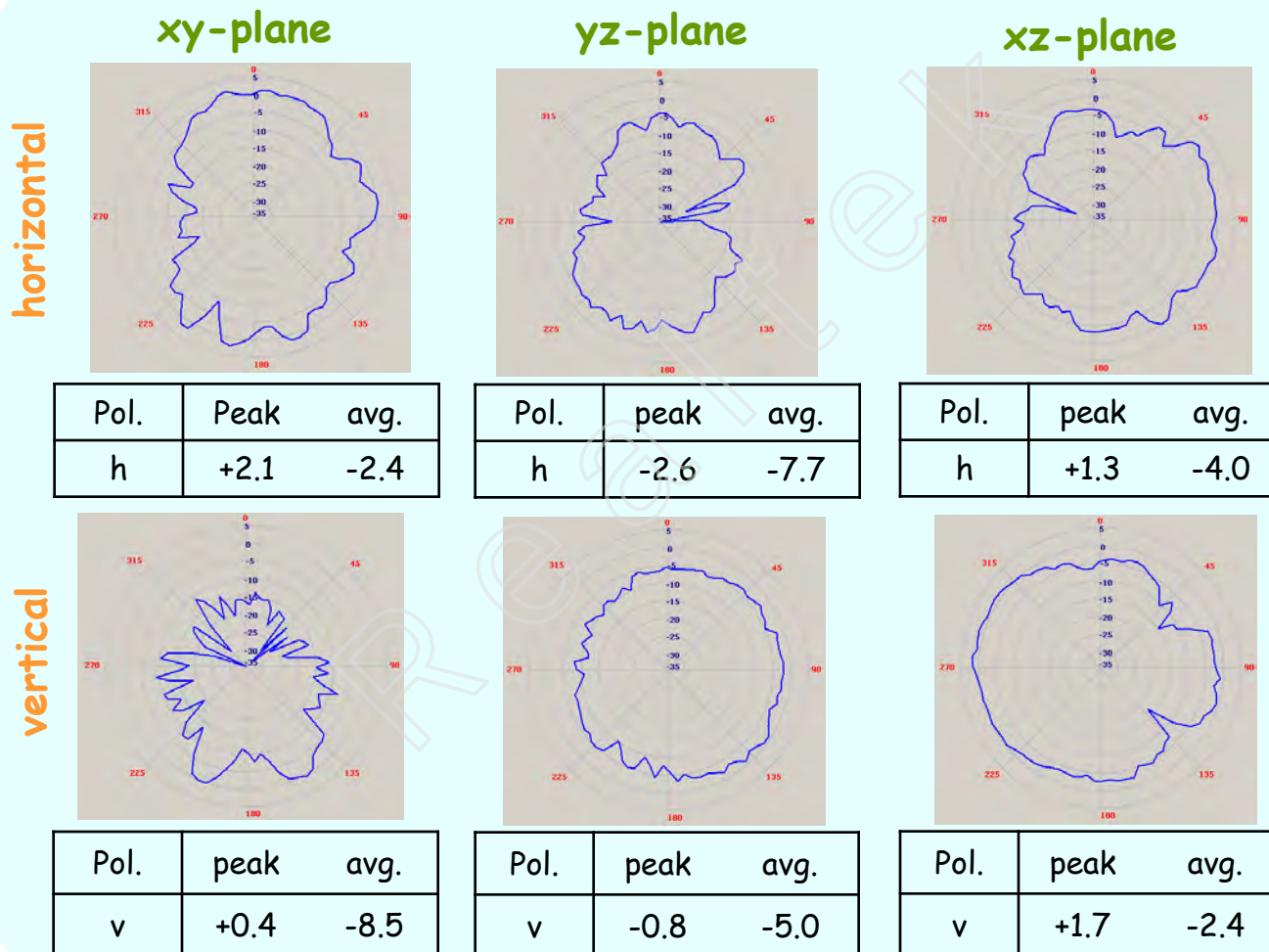


- Radiation Patterns – 2480 MHz





- Radiation Patterns – 5150 MHz

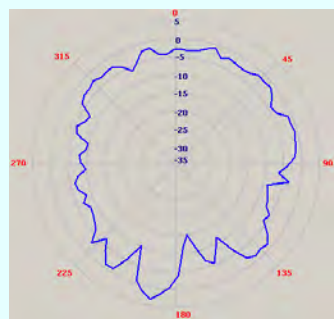




- Radiation Patterns – 5500 MHz

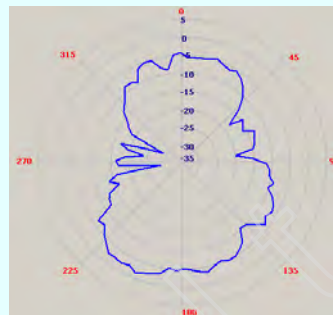
horizontal

xy-plane



| Pol. | Peak | avg. |
|------|------|------|
| h    | +3.1 | -3.6 |

yz-plane



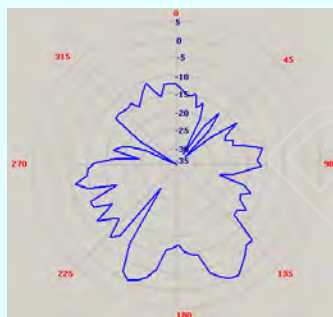
| Pol. | peak | avg. |
|------|------|------|
| h    | -1.6 | -7.3 |

xz-plane

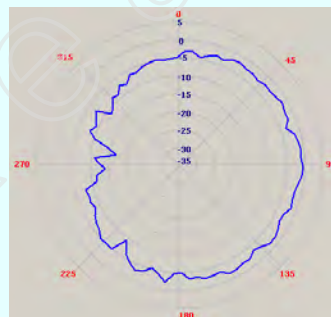


| Pol. | peak | avg. |
|------|------|------|
| h    | +2.6 | -4.0 |

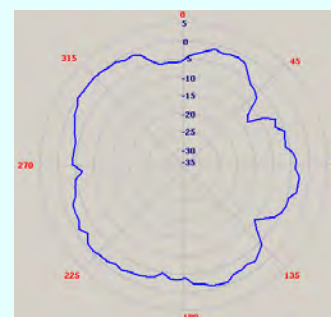
vertical



| Pol. | peak | avg. |
|------|------|------|
| v    | -0.1 | -8.9 |

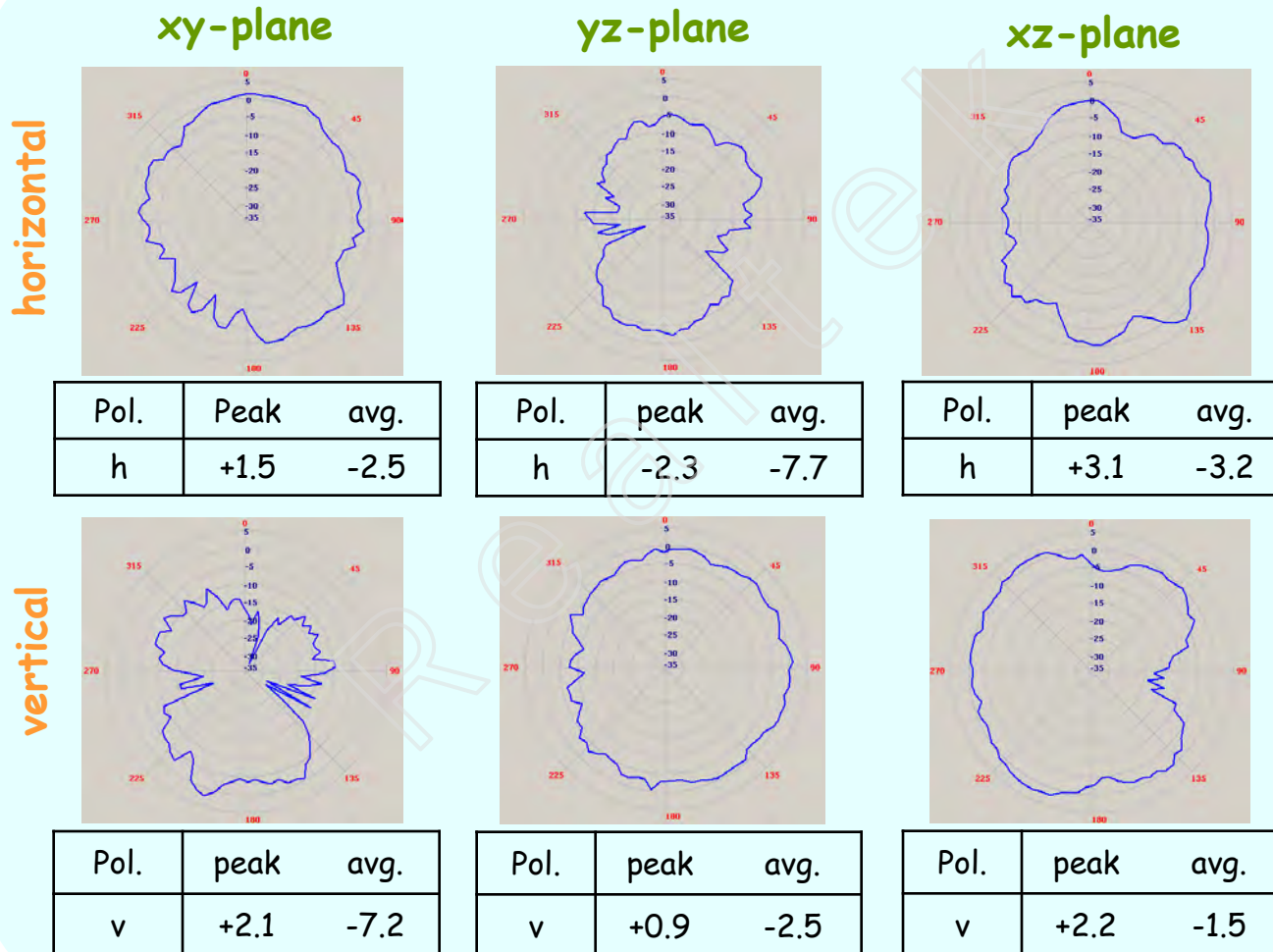


| Pol. | peak | avg. |
|------|------|------|
| v    | -0.6 | -4.1 |

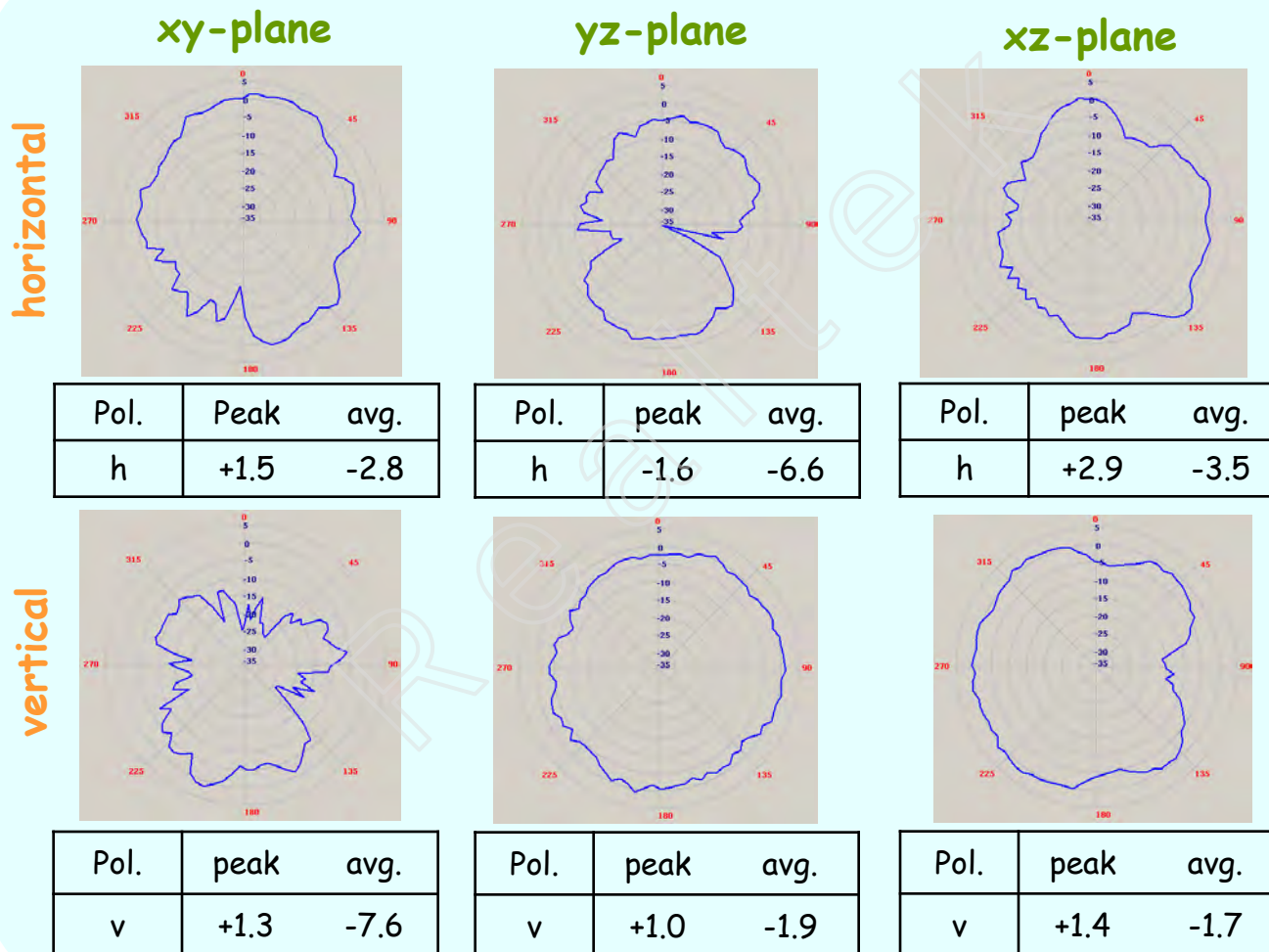


| Pol. | peak | avg. |
|------|------|------|
| v    | -0.1 | -3.1 |

- Radiation Patterns – 5850 MHz



- Radiation Patterns – 5925 MHz



- **Antenna Gain Table**

| Frequency (MHz) | Peak gain (dBi) |
|-----------------|-----------------|
| 2400            | +1.8            |
| 2450            | +3.5            |
| 2480            | +3.7            |

| Frequency (MHz) | Peak gain (dBi) |
|-----------------|-----------------|
| 5150            | +2.1            |
| 5500            | +3.1            |
| 5850            | +3.1            |
| 5925            | +2.9            |

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