



# [RTL8821CS] module antenna test report

Jeany Ling

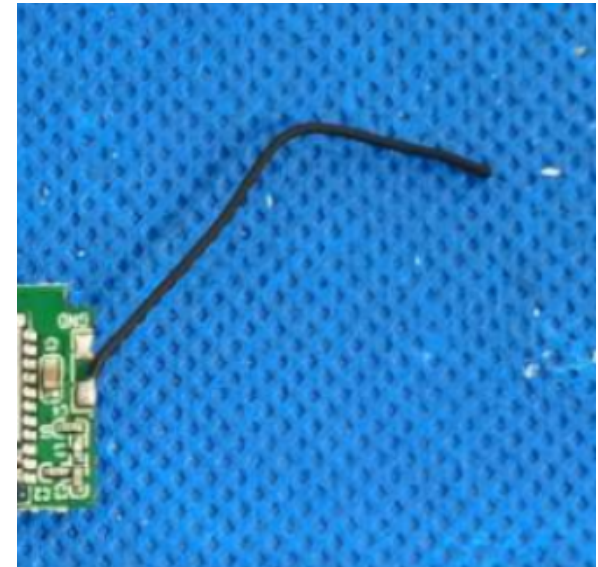
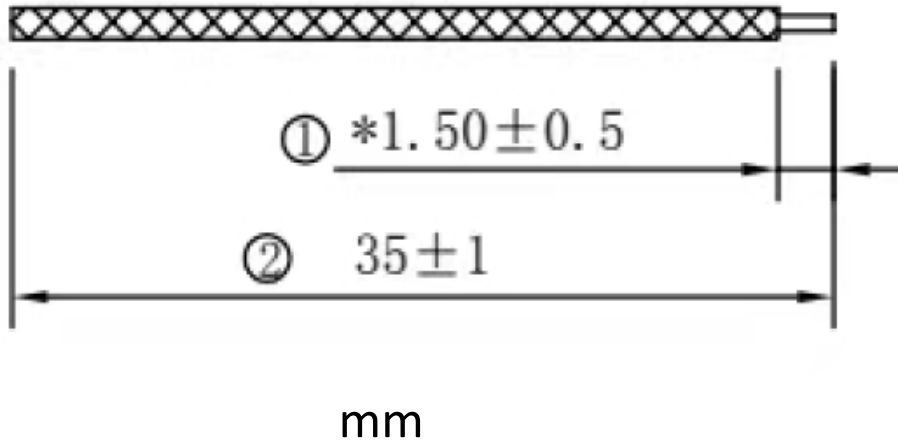
Nov. 23, 2022





# [RTL8821CS] module antenna test report

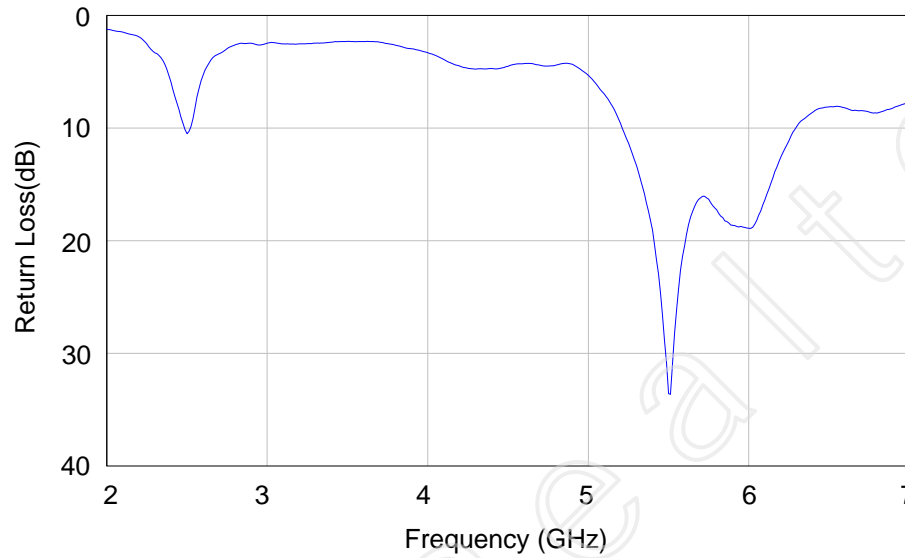
- Antenna structure
- Photo





# [RTL8821CS] module antenna test report

- Return Loss



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

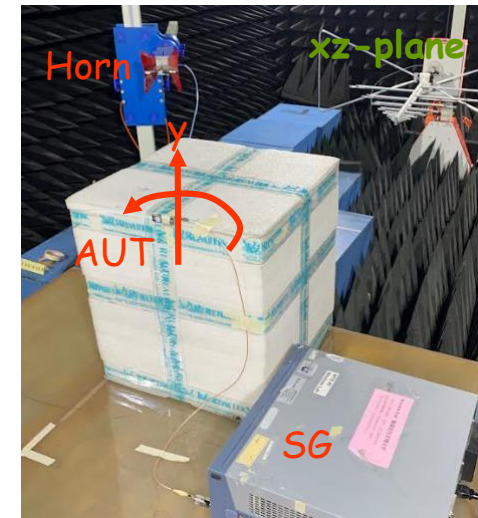
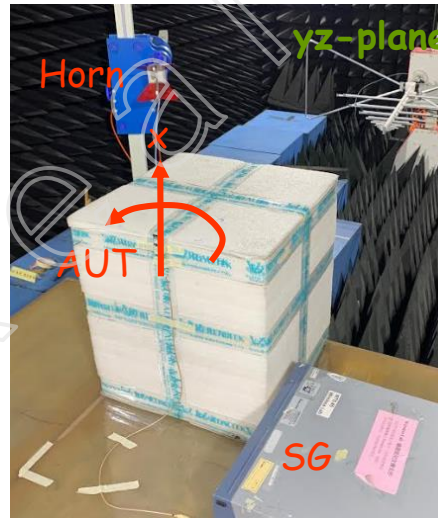
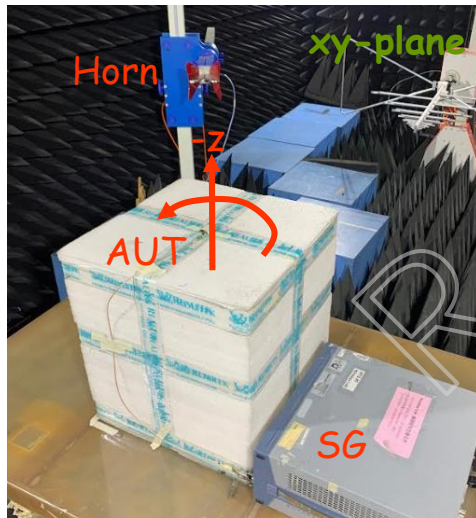
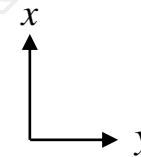




# [RTL8821CS] module antenna test report

## • 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

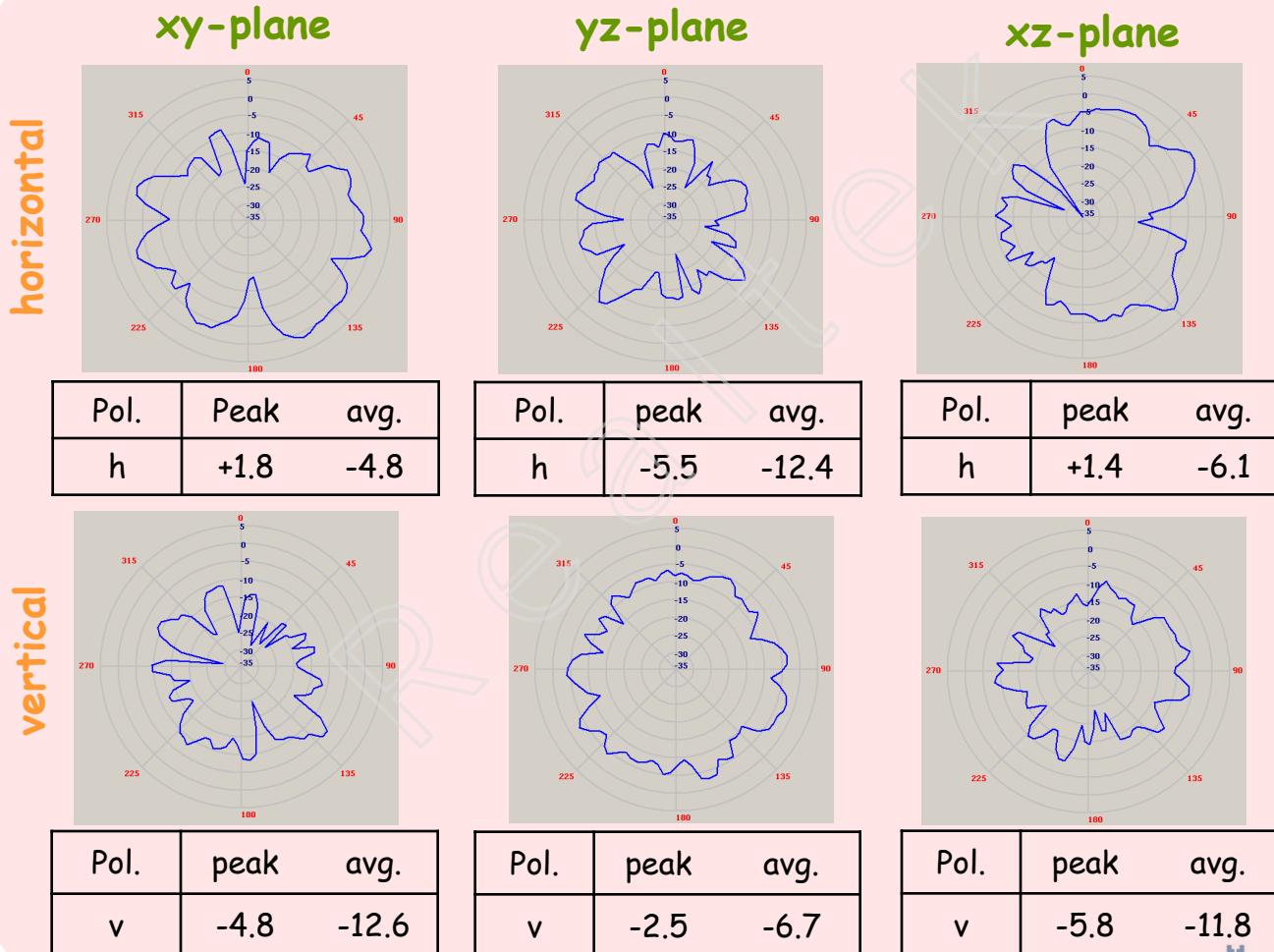






# [RTL8821CS] module antenna test report

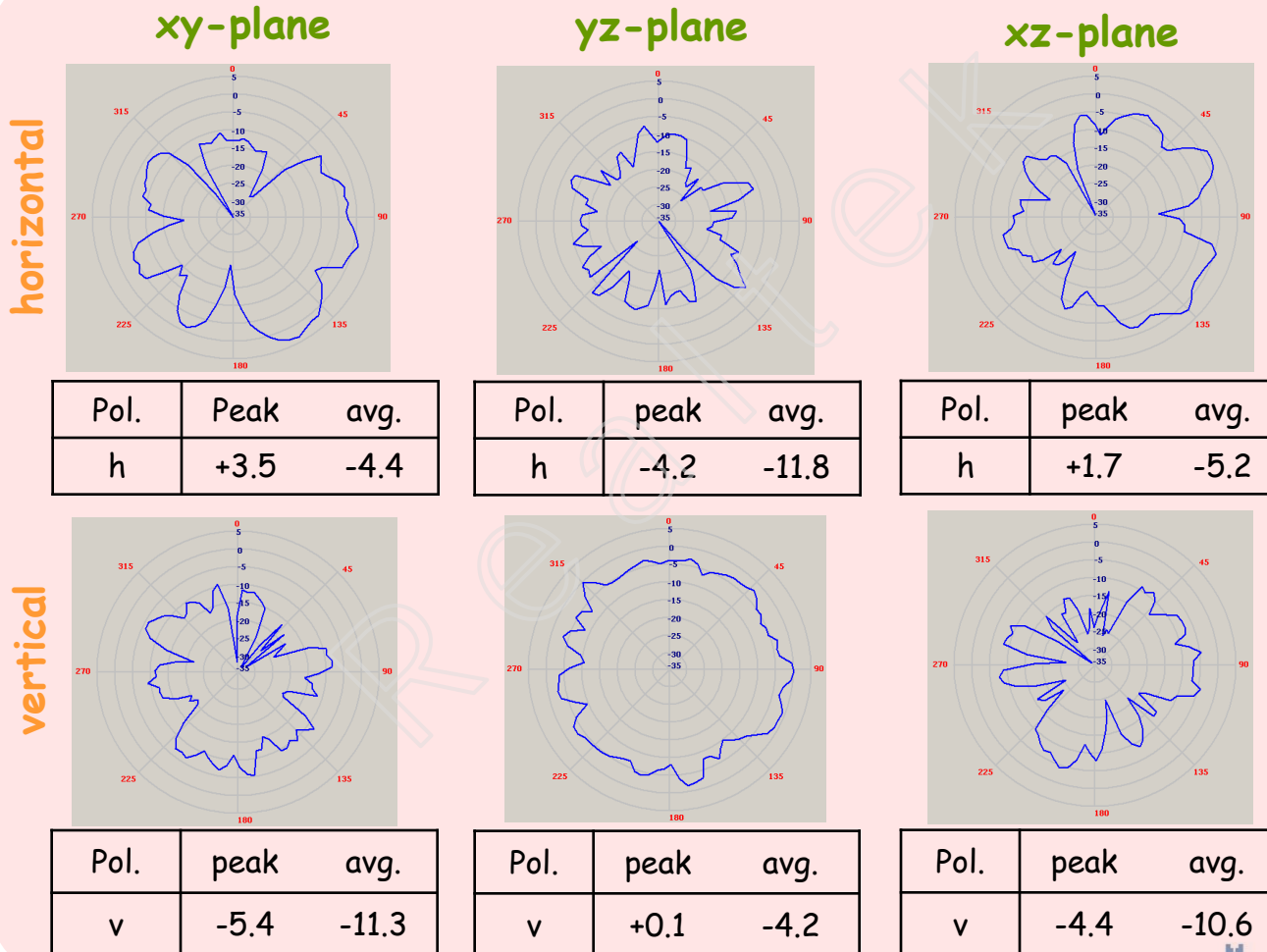
- Radiation Patterns – 2400 MHz





# [RTL8821CS] module antenna test report

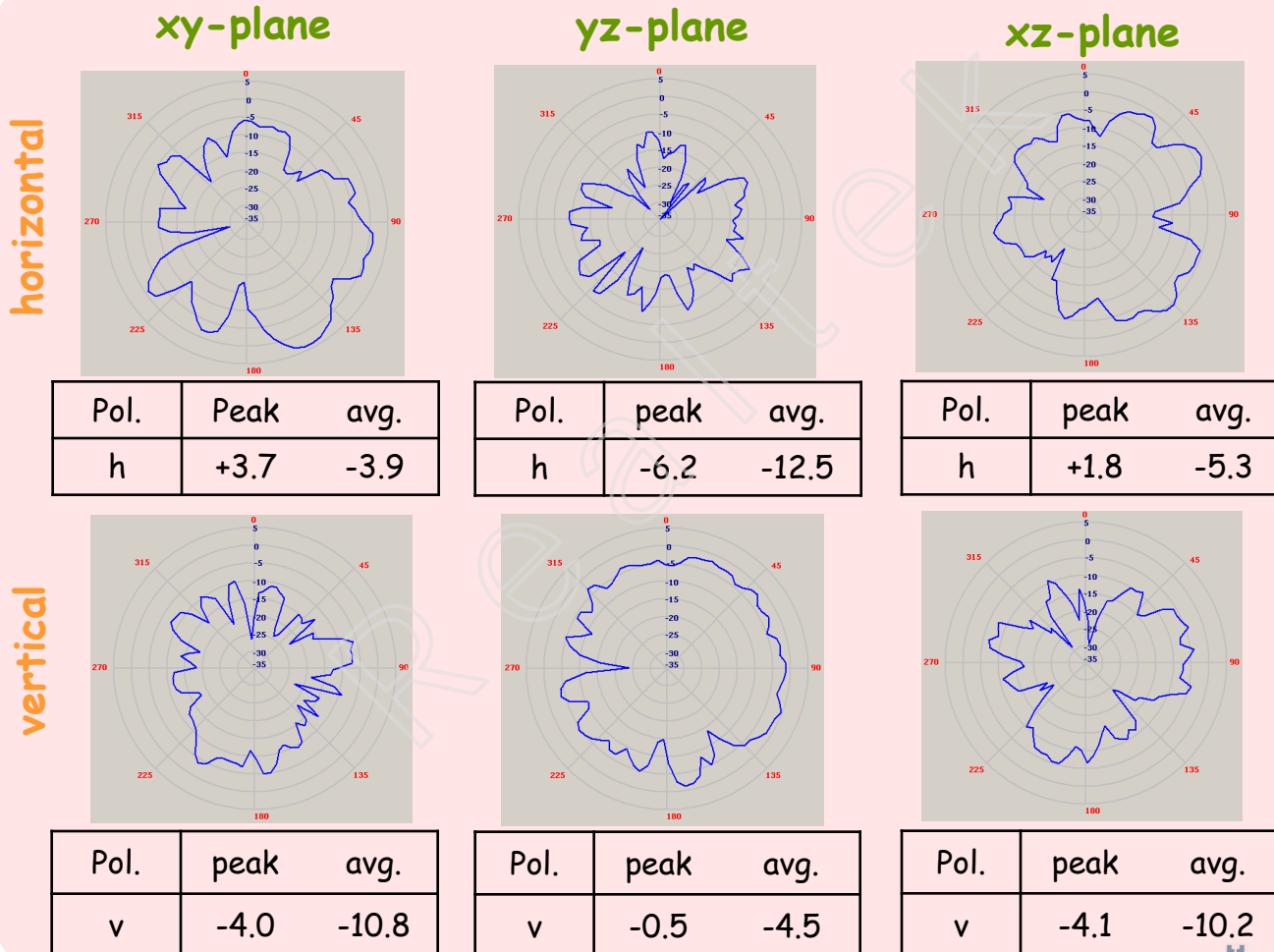
- Radiation Patterns – 2450 MHz





# [RTL8821CS] module antenna test report

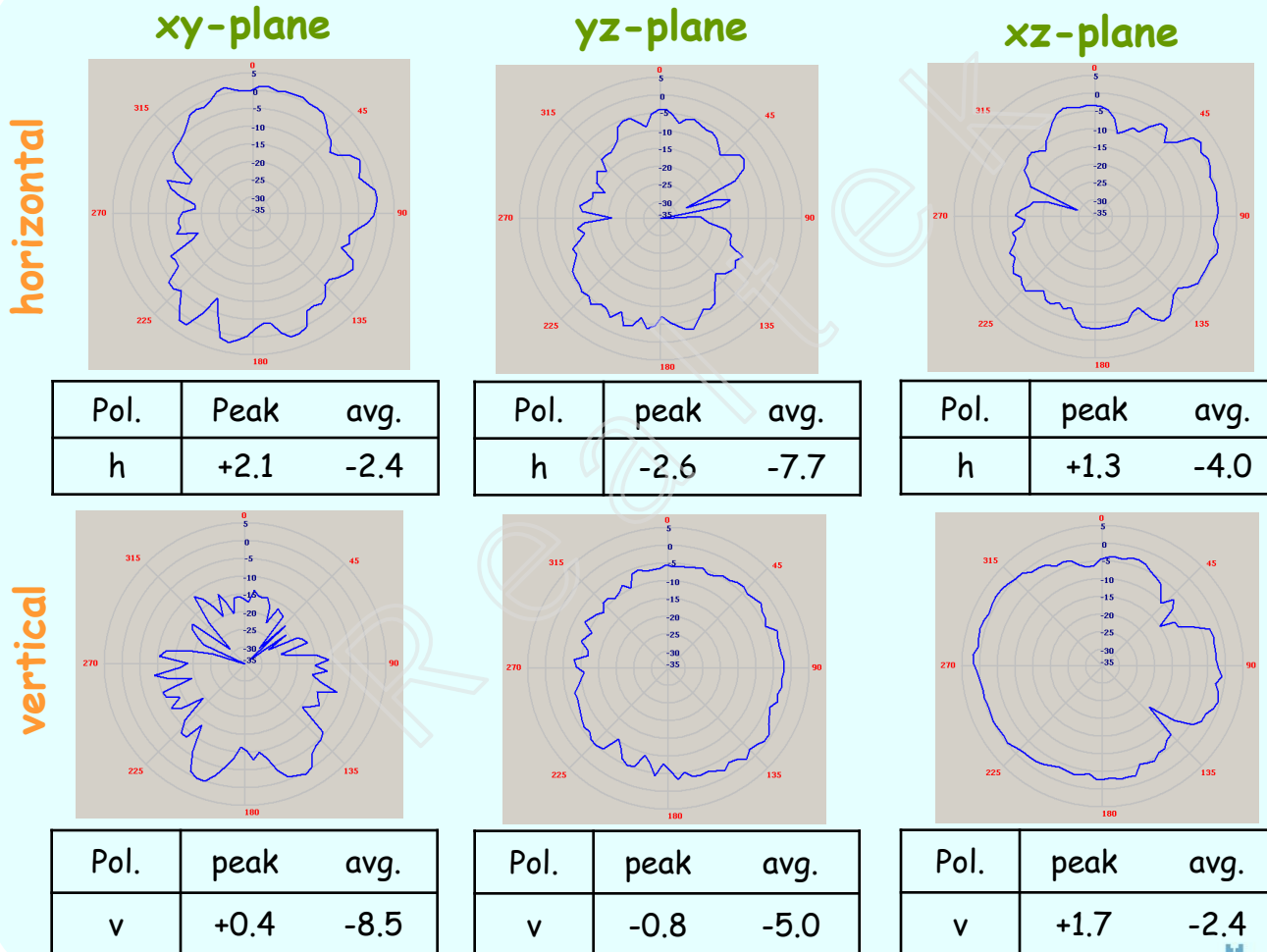
- Radiation Patterns – 2480 MHz





# [RTL8821CS] module antenna test report

- Radiation Patterns – 5150 MHz

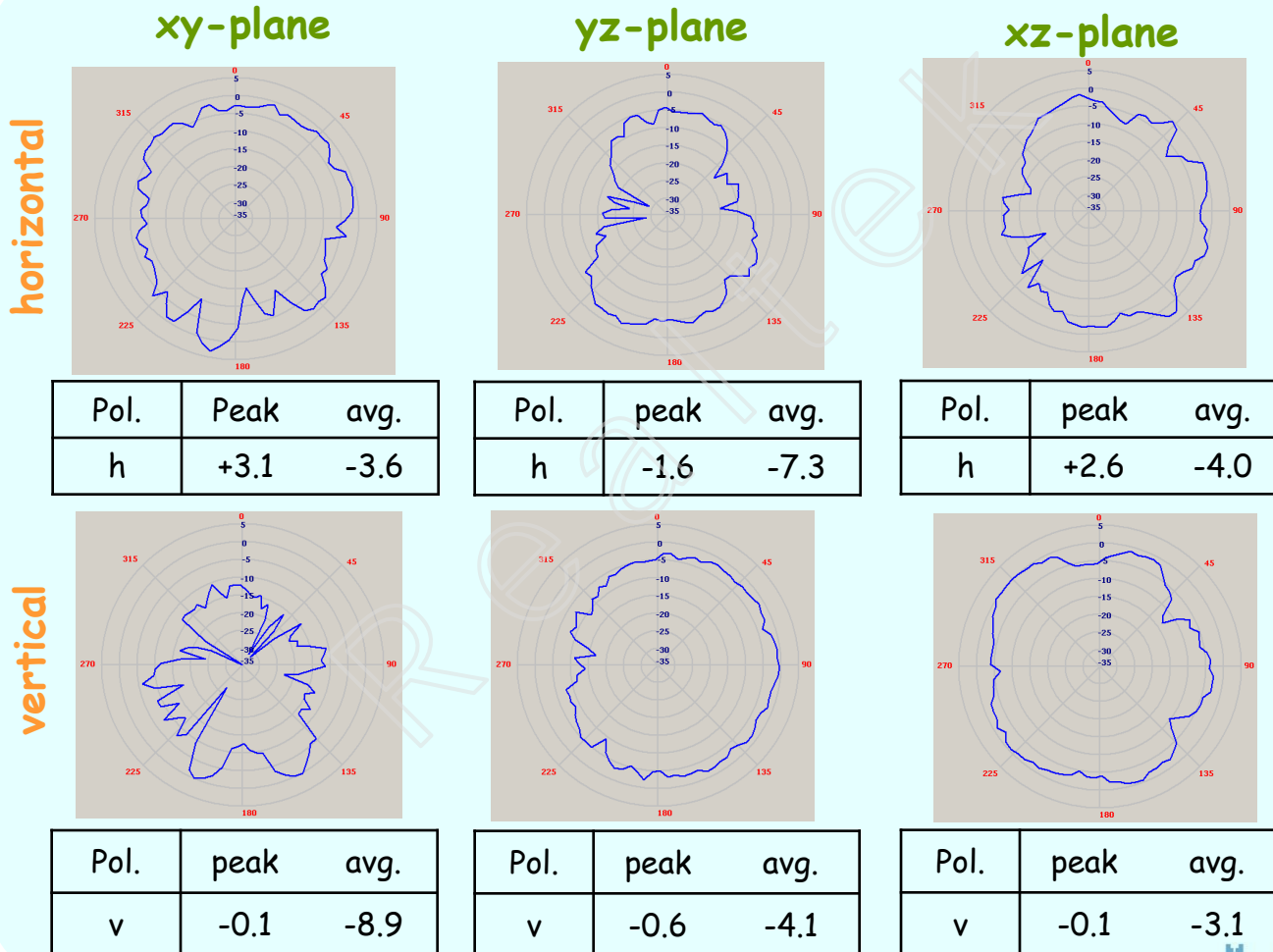






# [RTL8821CS] module antenna test report

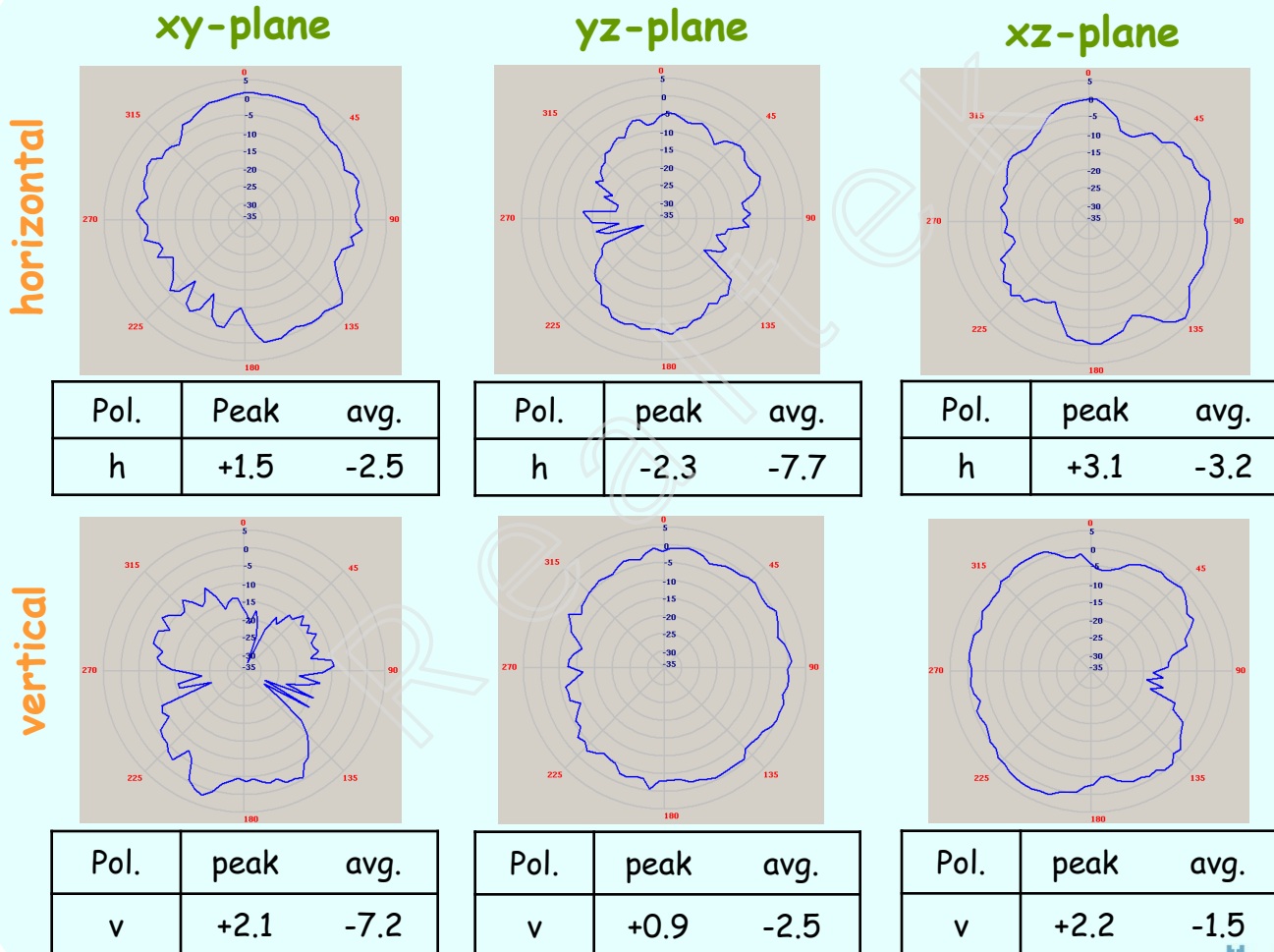
- Radiation Patterns – 5500 MHz





# [RTL8821CS] module antenna test report

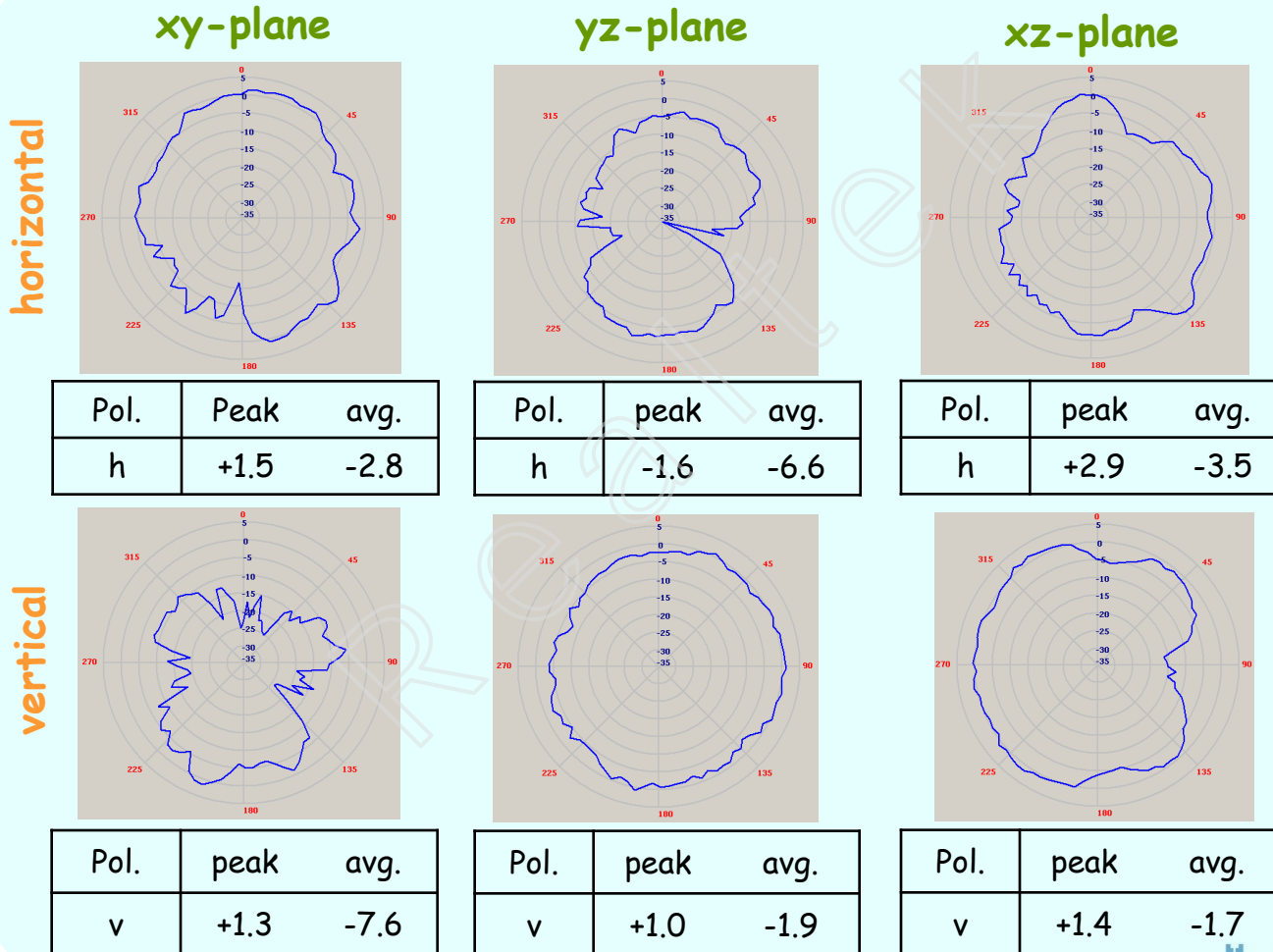
- Radiation Patterns – 5850 MHz





# [RTL8821CS] module antenna test report

- Radiation Patterns – 5925 MHz





# [RTL8821CS] module antenna test report

- 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

Realtek Semiconductor (Shenzhen) Co., LTD  
Zone B, 3rd Floor, Building A3, Shenzhen Digital Technology Park, Gaoxin Nanqi Road,  
Nanshan District, Shenzhen City, Guangdong Province

