

WIFI 2.4/5G

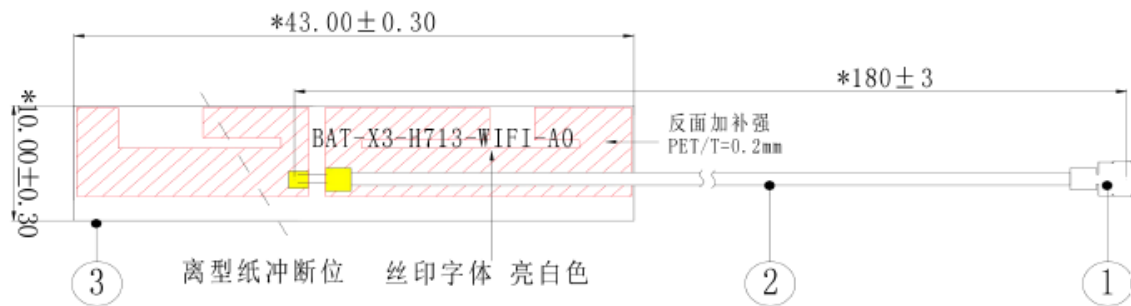
antenna test report

Jeany Ling

Nov. 23, 2022

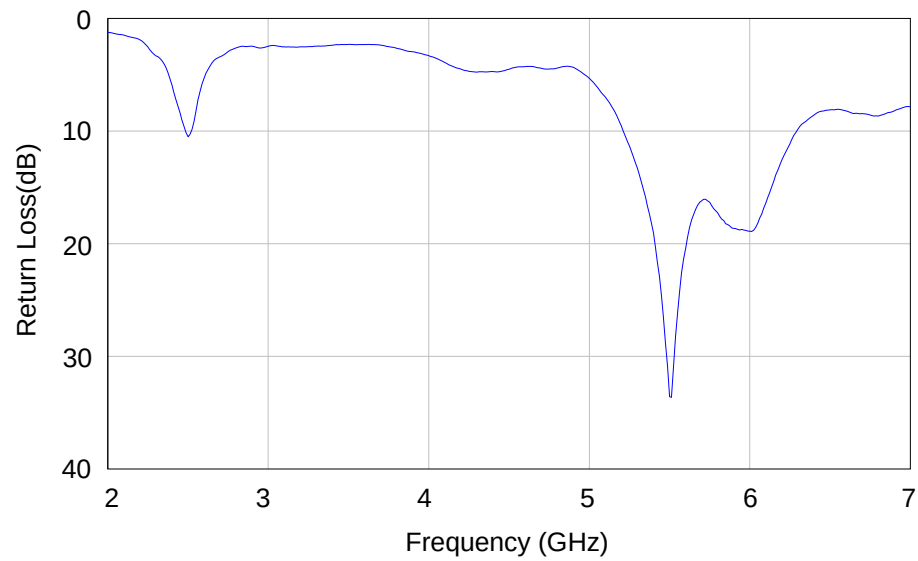
- Antenna structure

- Photo



mm

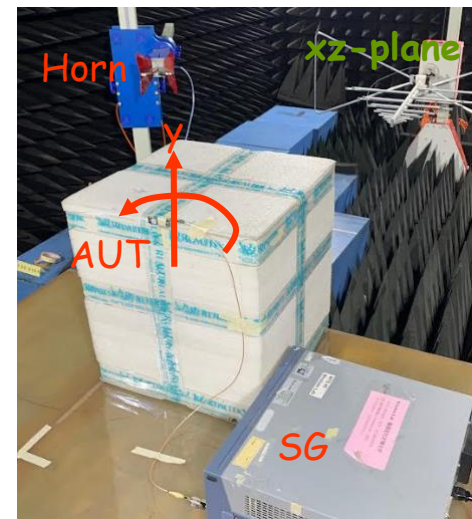
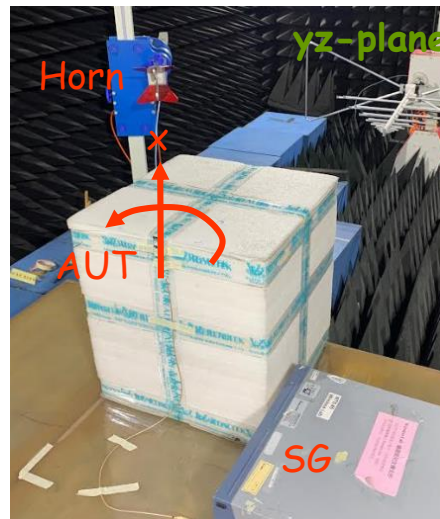
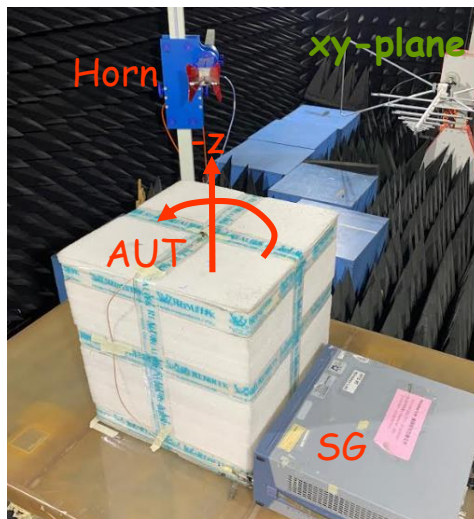
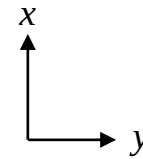
- **Return Loss**



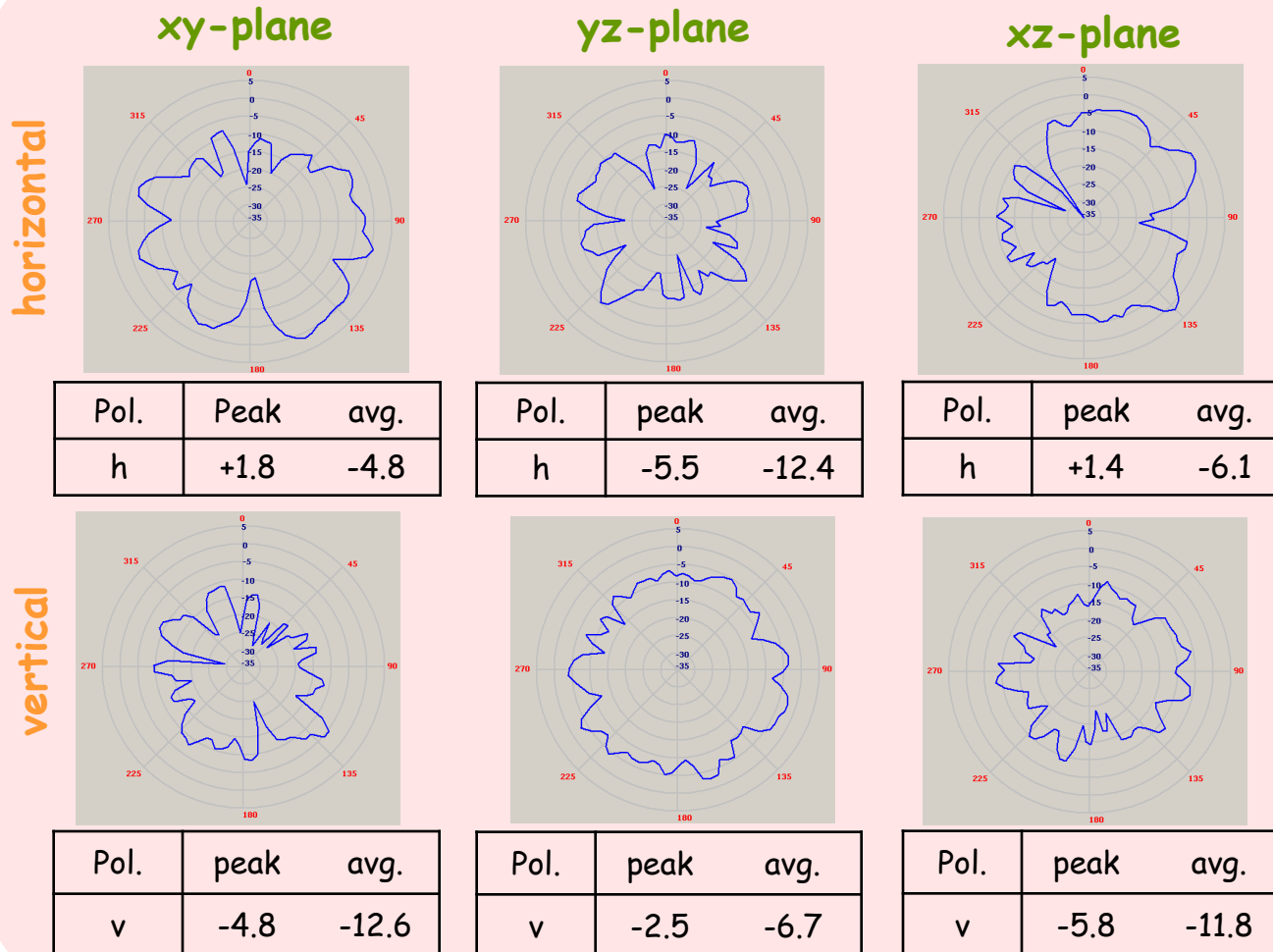
* C4=C5=NC, L1=0ohm

- **Radiation Patterns**

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



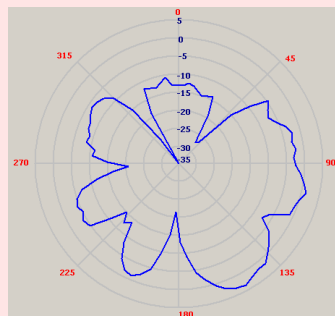
- Radiation Patterns – 2400 MHz



- Radiation Patterns – 2450 MHz

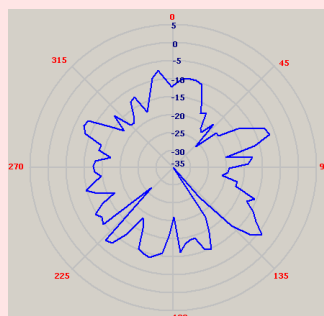
horizontal

xy-plane



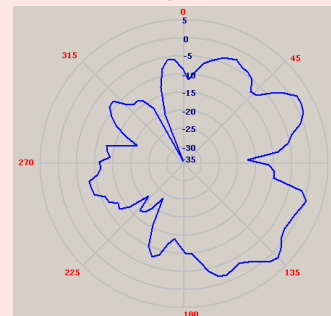
Pol.	Peak	avg.
h	+3.5	-4.4

yz-plane



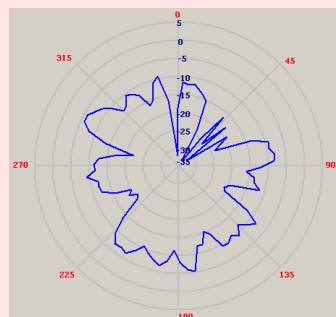
Pol.	peak	avg.
h	-4.2	-11.8

xz-plane

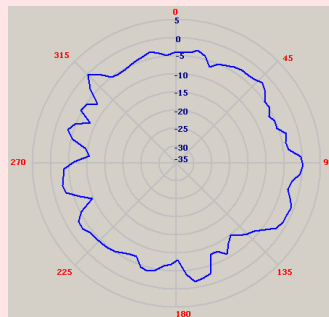


Pol.	peak	avg.
h	+1.7	-5.2

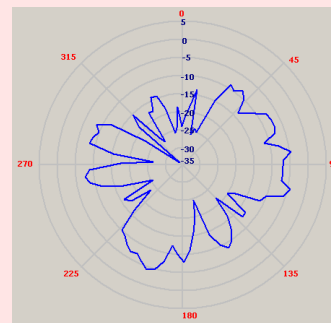
vertical



Pol.	peak	avg.
v	-5.4	-11.3

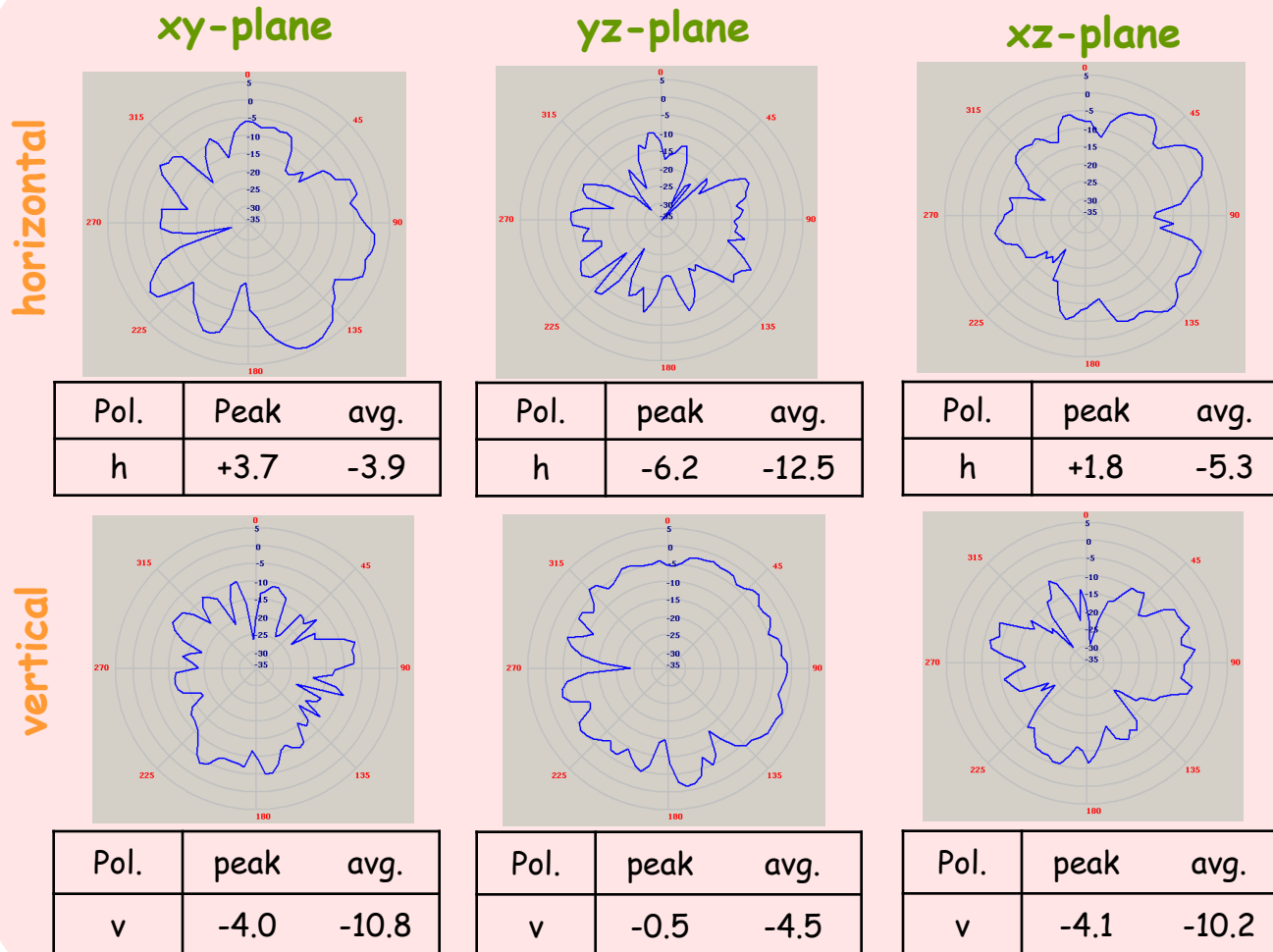


Pol.	peak	avg.
v	+0.1	-4.2

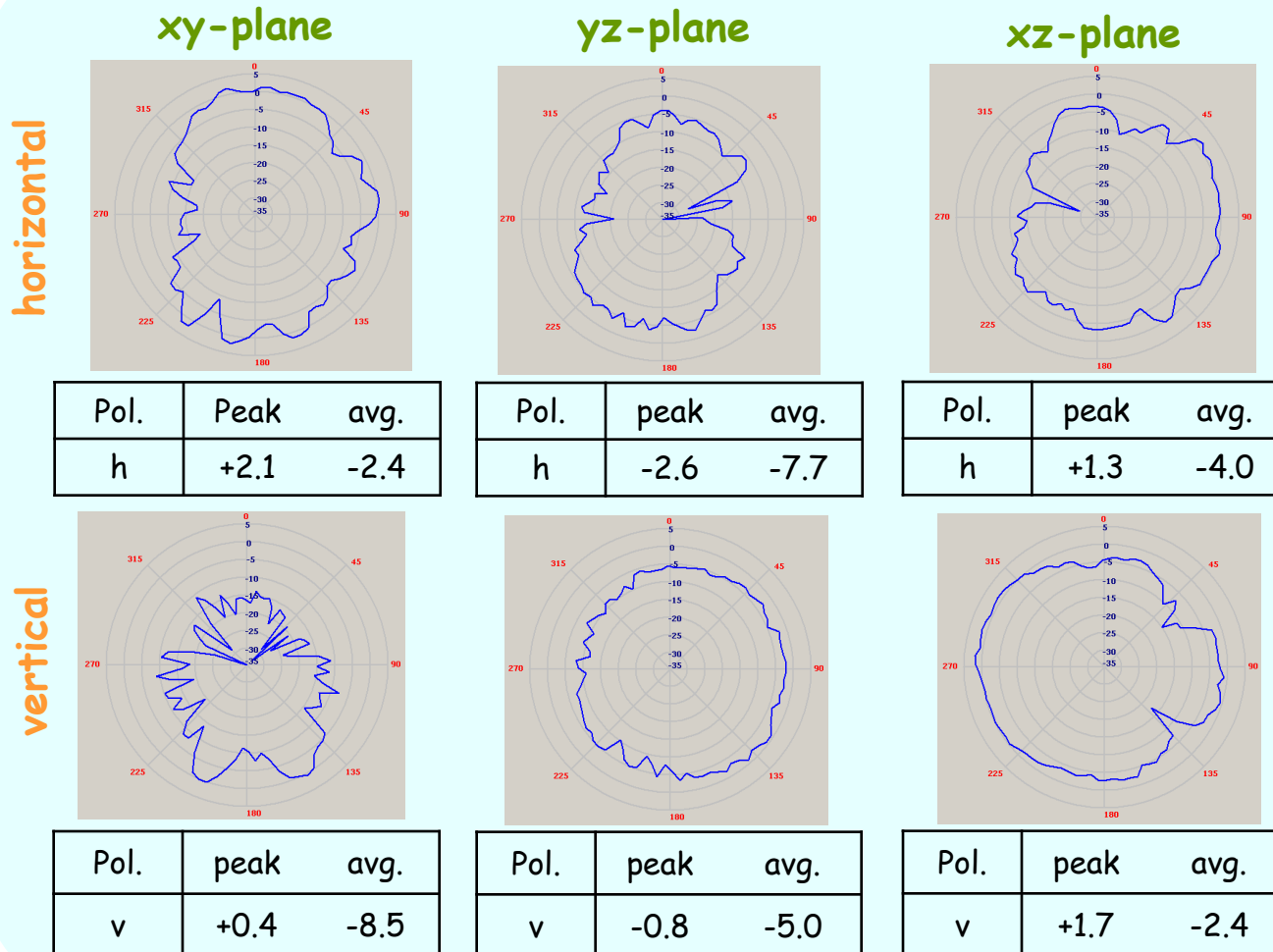


Pol.	peak	avg.
v	-4.4	-10.6

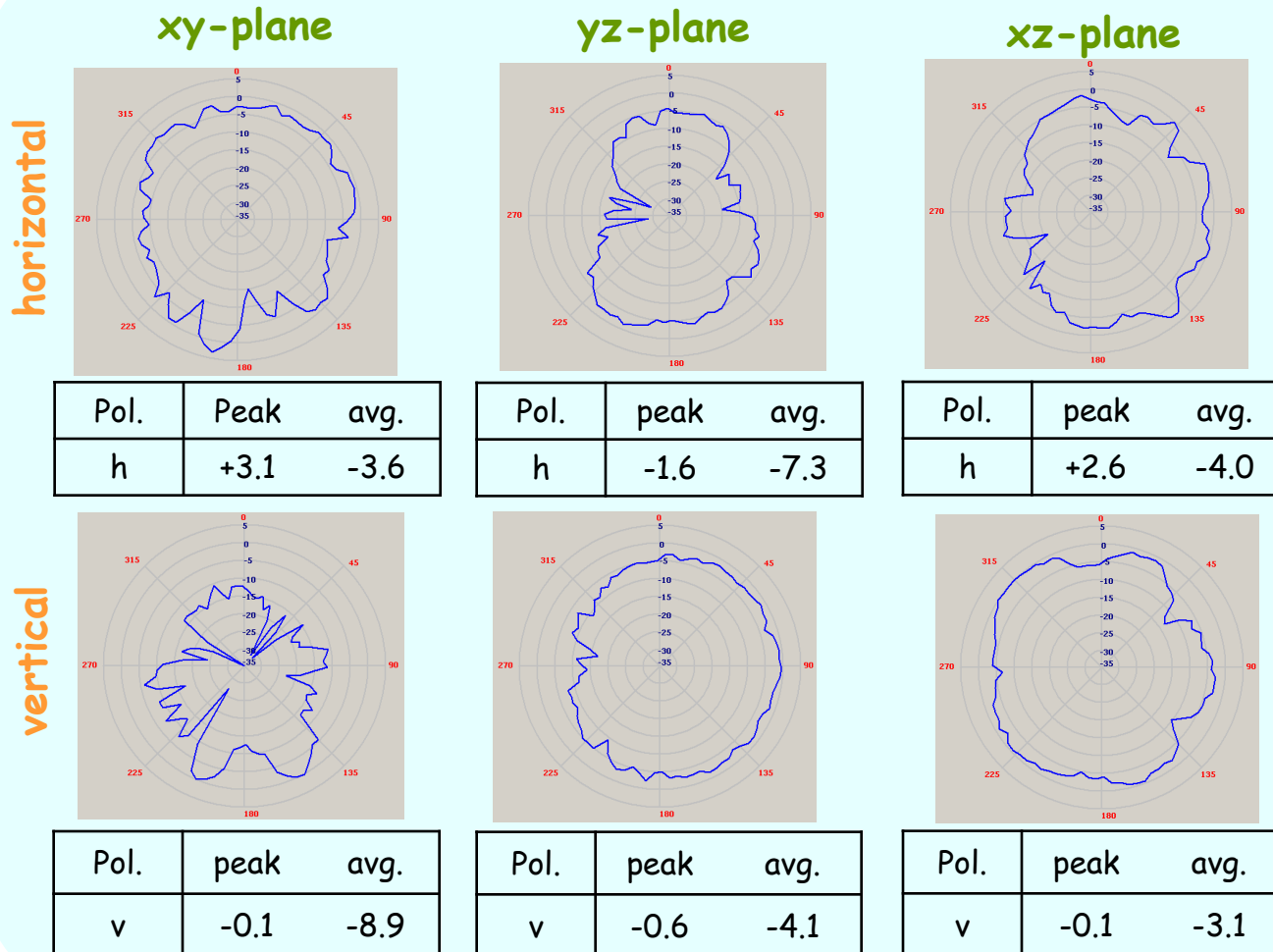
- Radiation Patterns – 2480 MHz



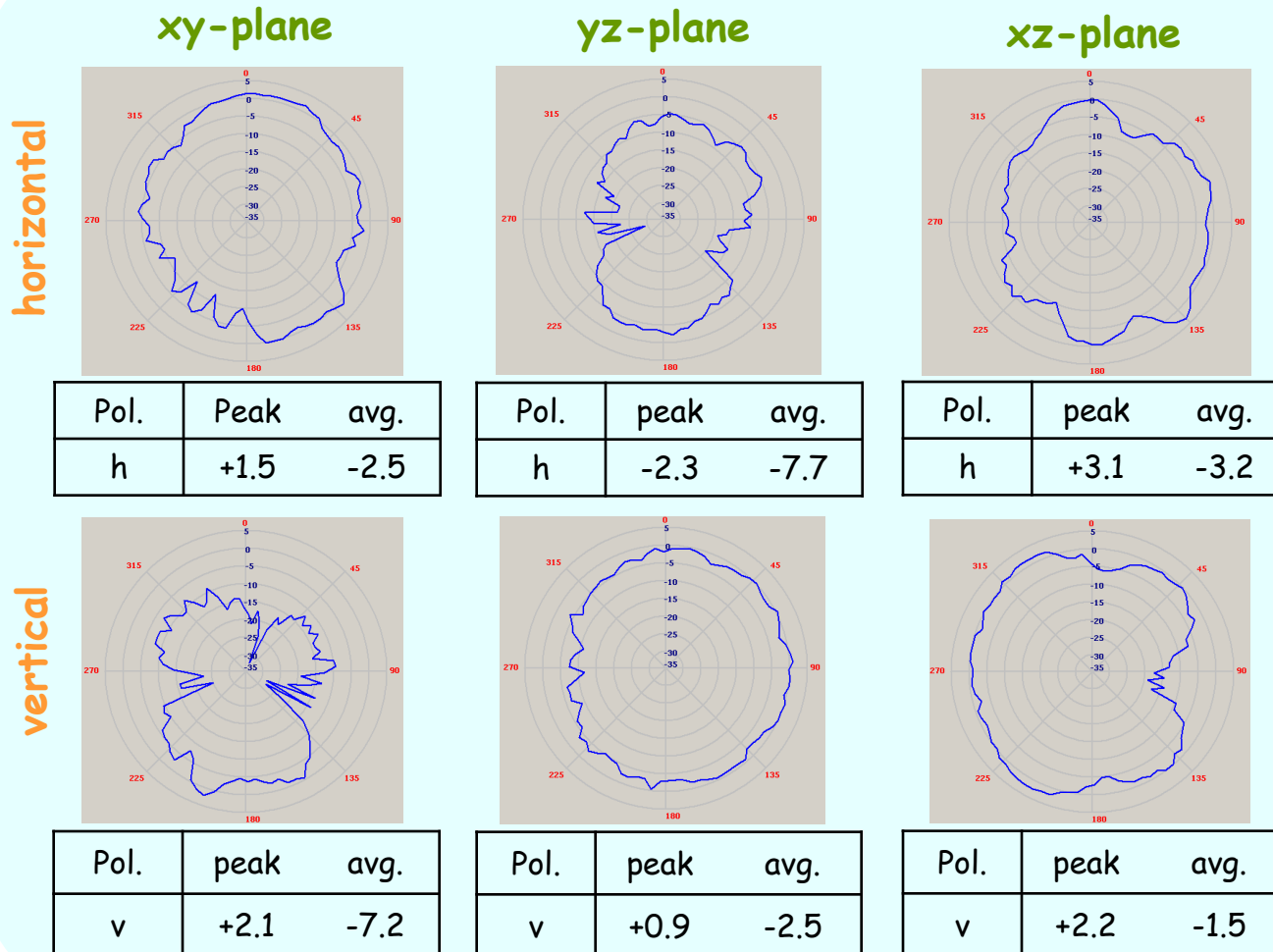
- Radiation Patterns – 5150 MHz



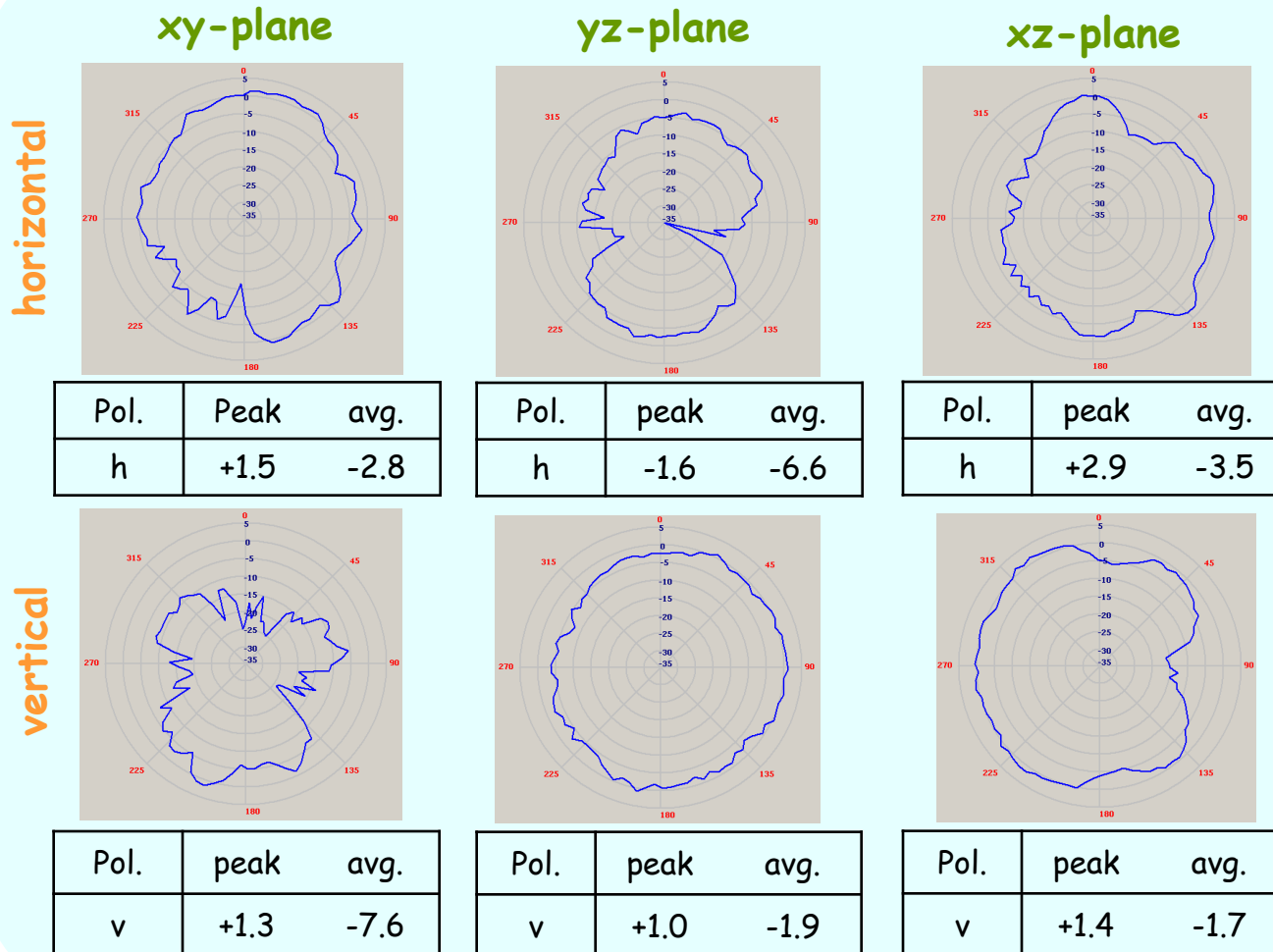
- Radiation Patterns – 5500 MHz



- 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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