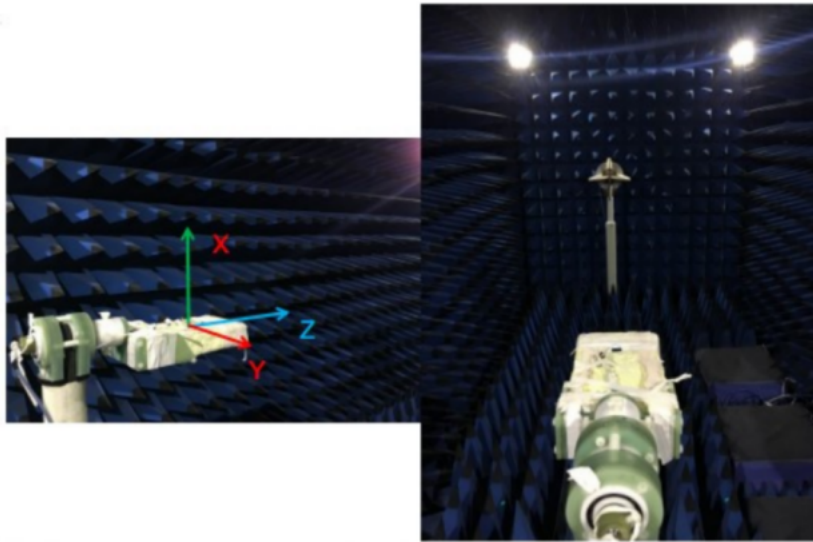


Antenna Report

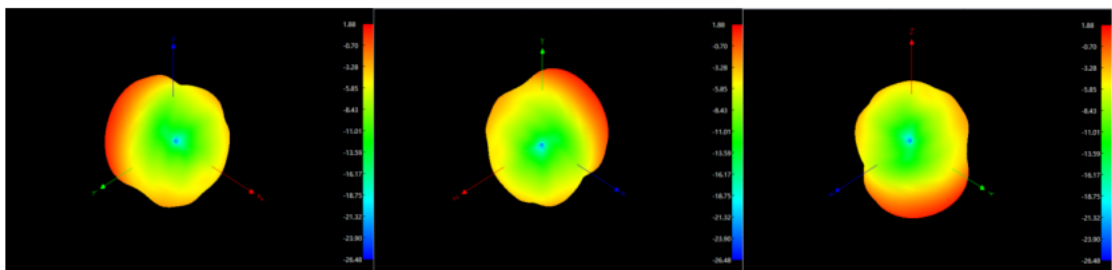
1. Antenna Information

Manufacturer	Hangzhou Tuya Information Technology Co., Ltd
Model	PCB Antenna for module R3L
Type	PCB onBoard
PK Gain	1.88dBi

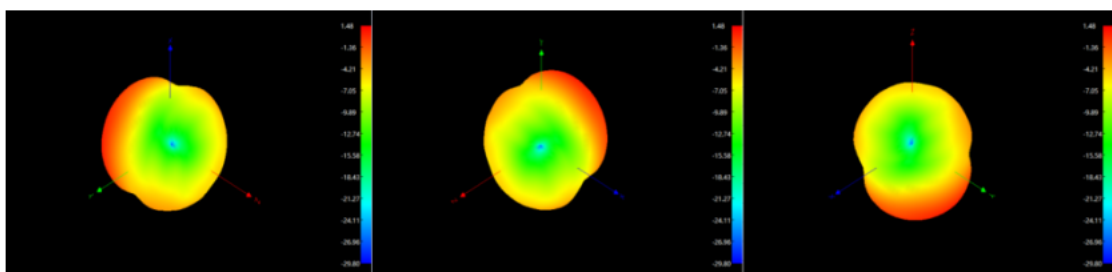
2. Radiation Pattern



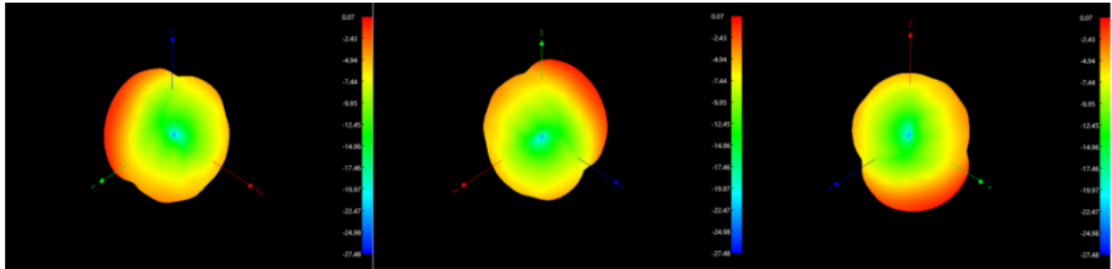
2400MHz



2450MHz

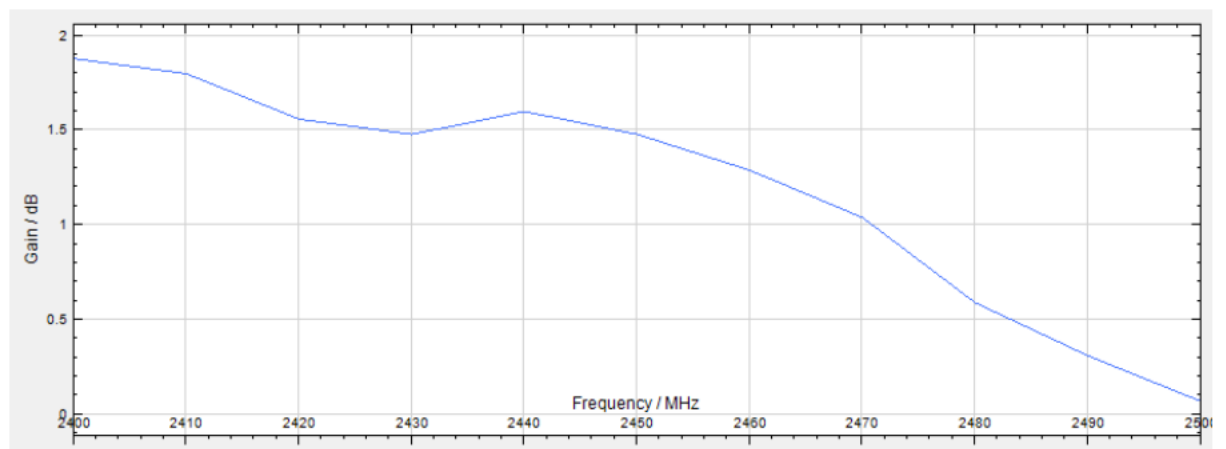


2500MHz



3. Gain table of Antenna

Frequency / MHz	Gain/ dB	Efficiency / %
2400	1.88	46.24
2410	1.8	45.92
2420	1.56	44.57
2430	1.48	44.26
2440	1.6	44.77
2450	1.48	44.26
2460	1.29	41.5
2470	1.04	37.84
2480	0.59	35.32
2490	0.31	32.66
2500	0.07	31.7



4. Antenna Layout & module on the system board

