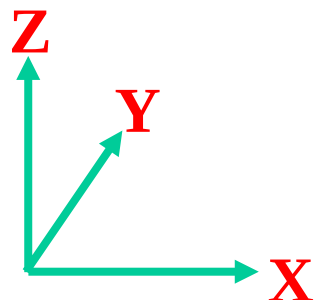
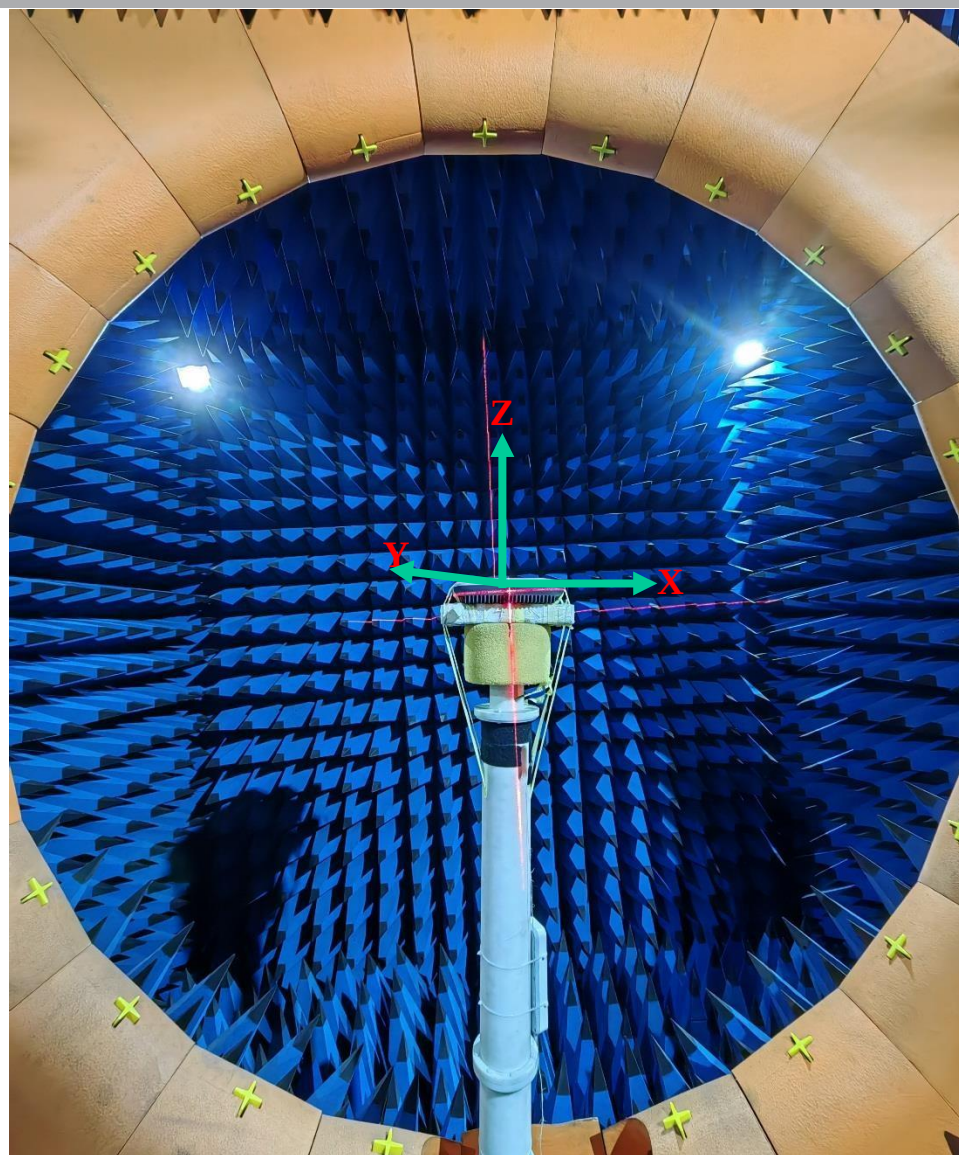


Outline

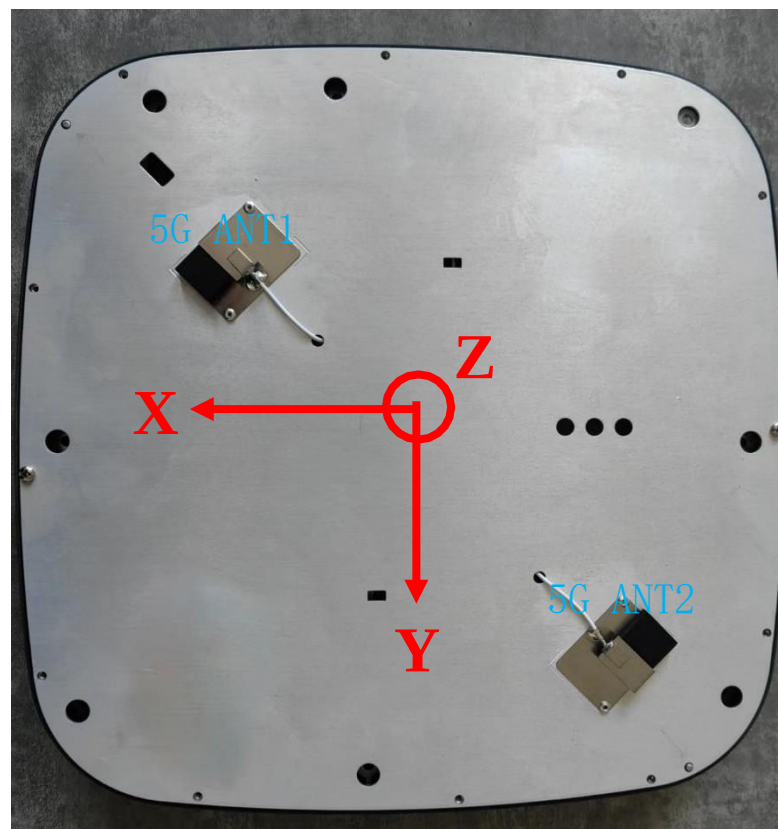
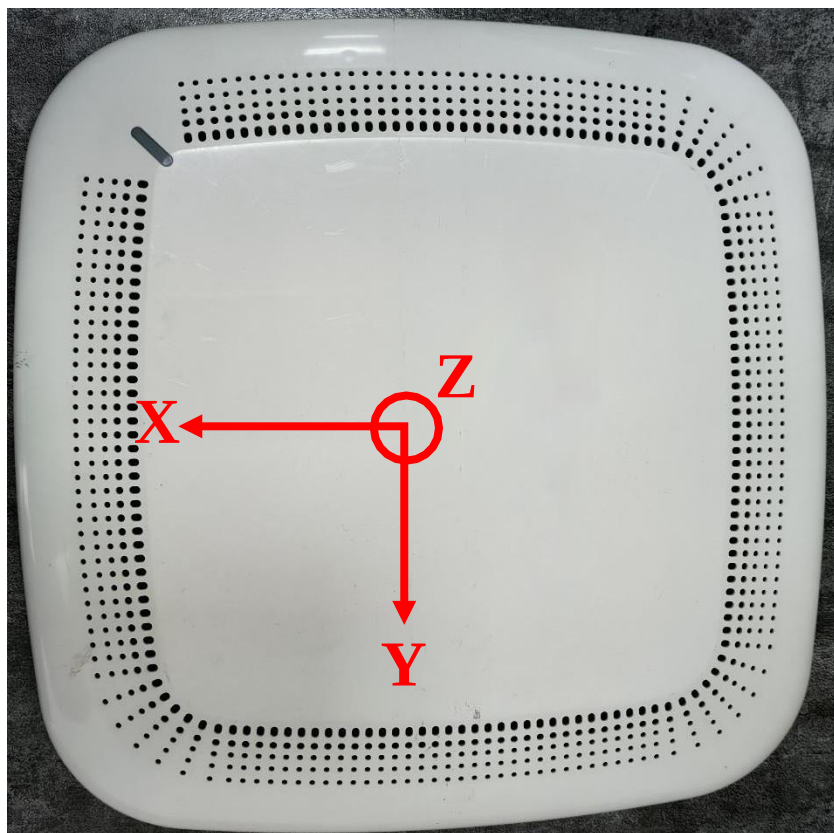
1. Benchmark
2. S-Parameters(**VSWR&isolation**)
3. Antenna Efficiency & Peak Gain
4. Radiation patterns
5. Summary

Customer: 剑桥
Project : S280
Designer: Lvcf
Date: 2024/01/04

1. Benchmark

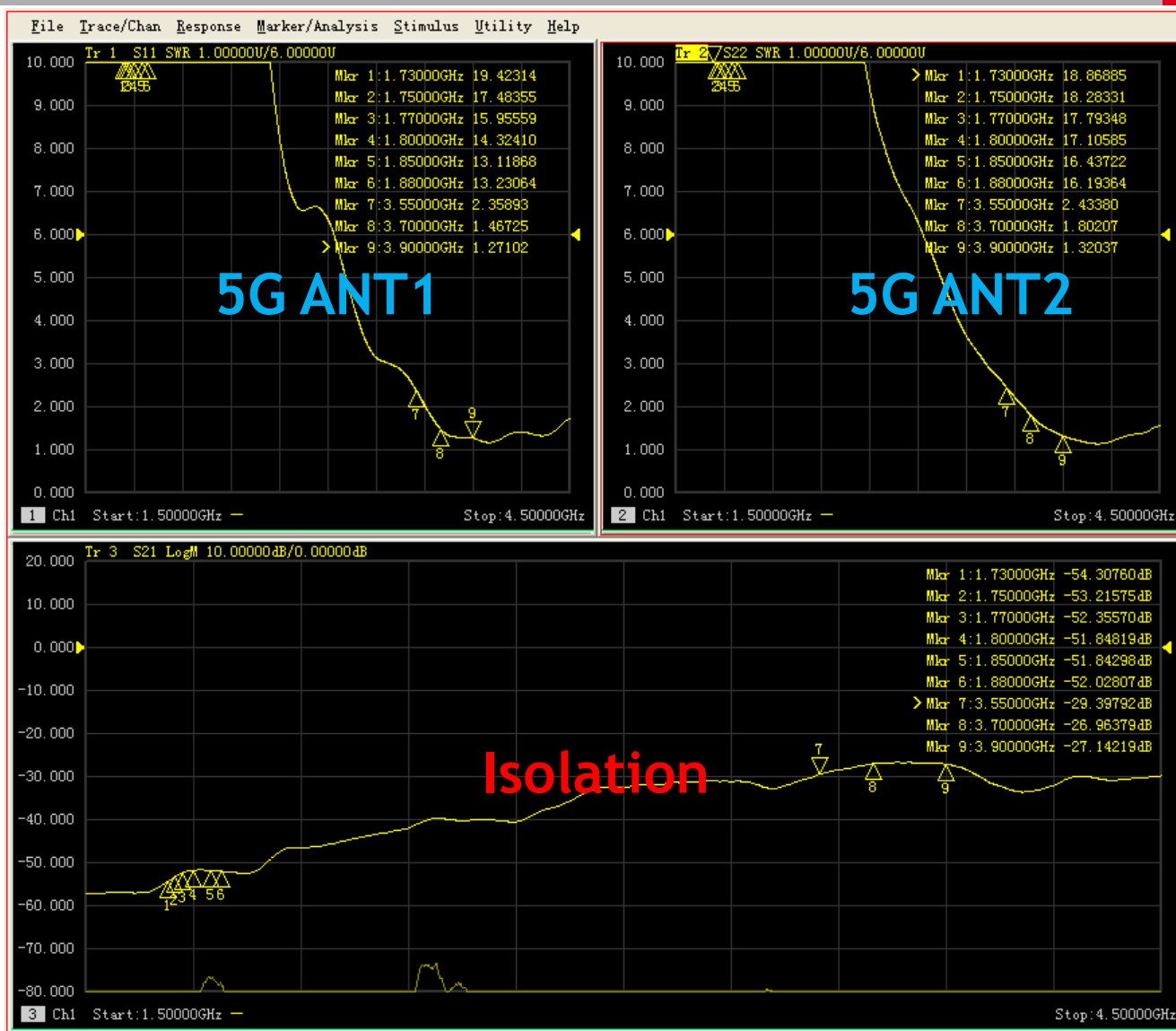


1. Benchmark

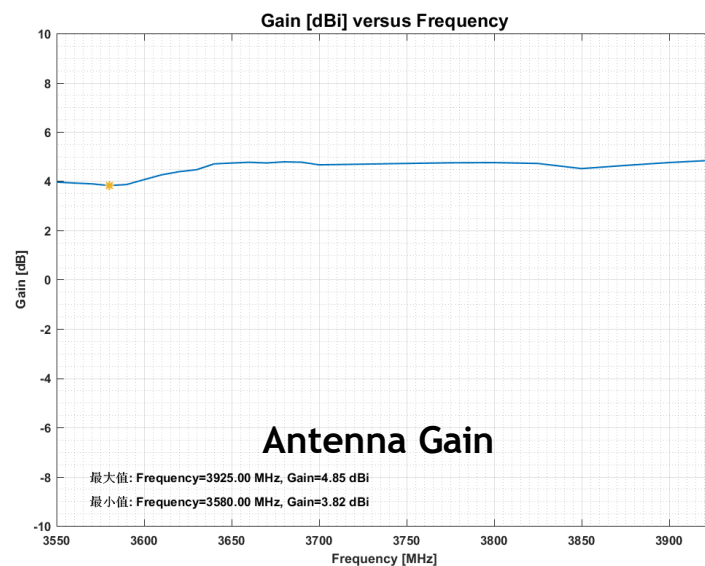
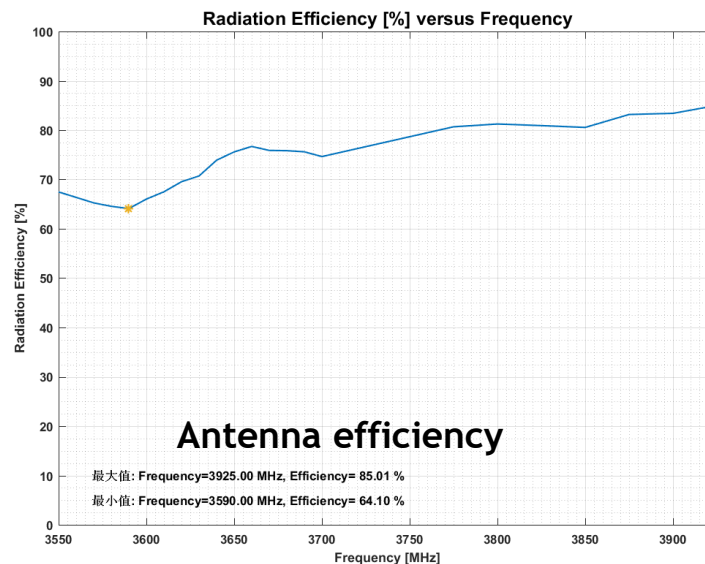


5G ANT1/ANT2: 3550~3700 MHz

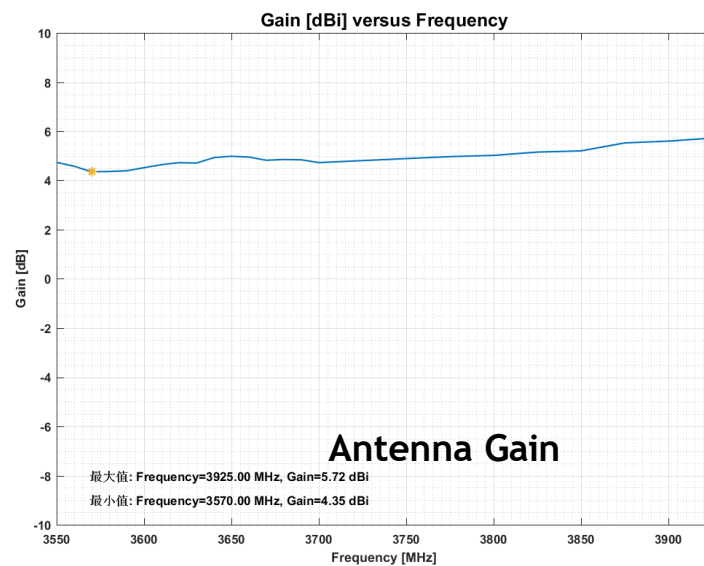
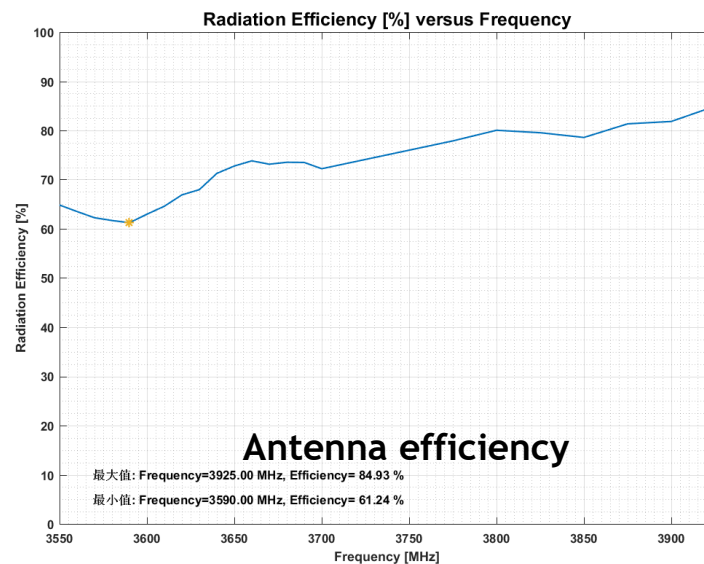
2. S-Parameters(5G ANT1、5G ANT2)



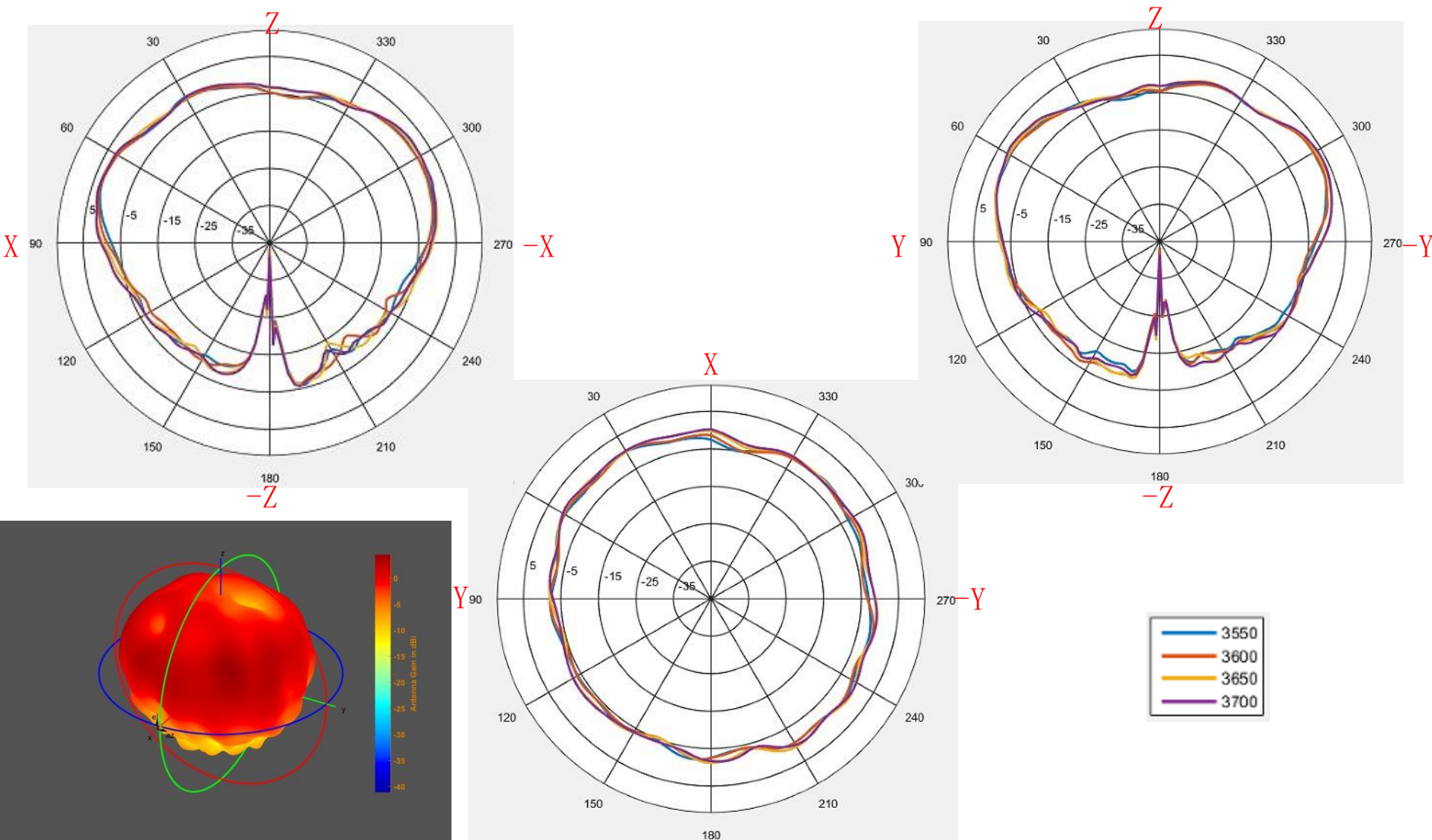
3. Antenna Efficiency&Peak Gain (5G ANT1)



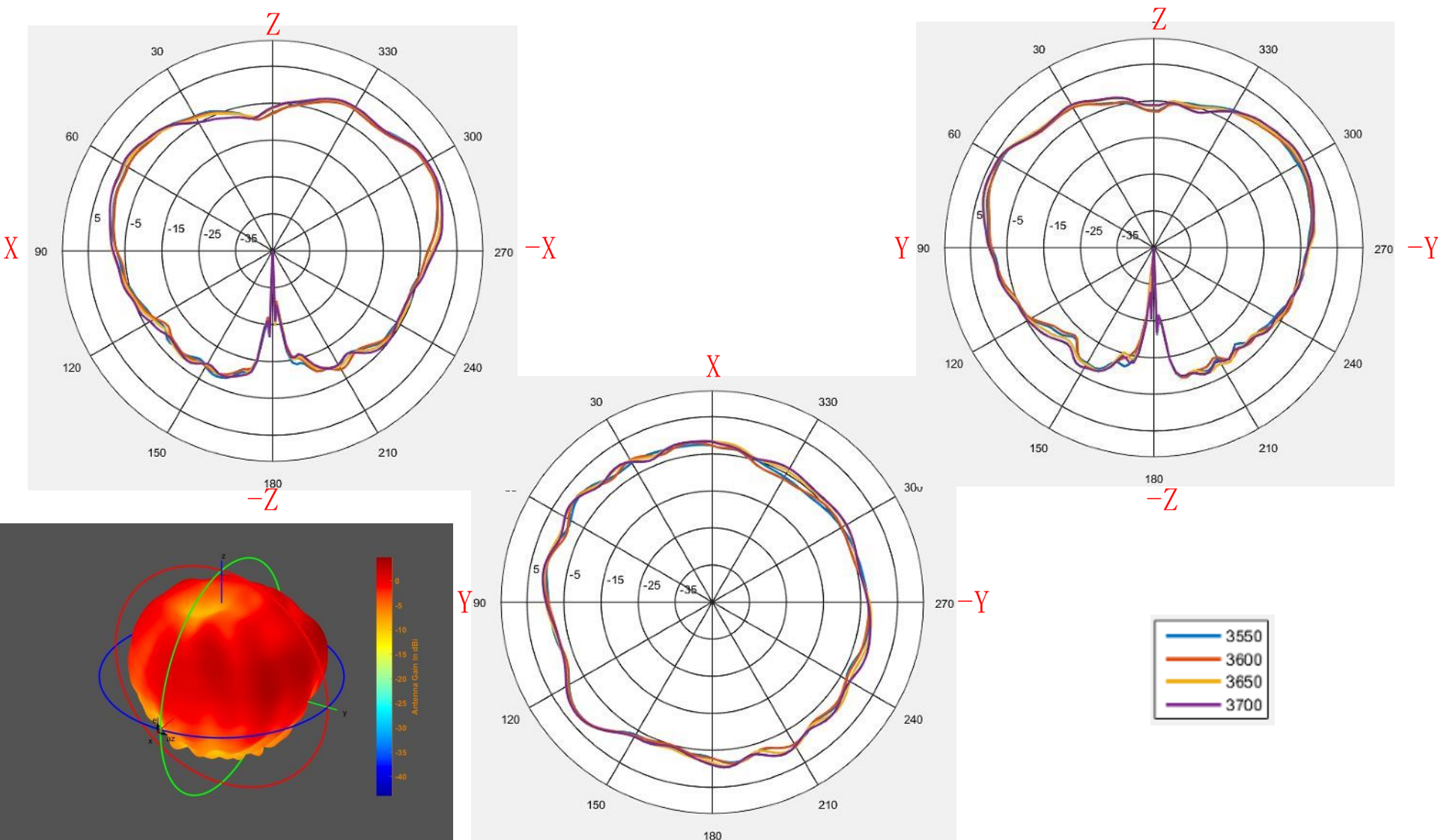
3. Antenna Efficiency&Peak Gain (5G ANT2)



4. Radiation patterns (5G ANT 1 3550~3700MHz)



4. Radiation patterns (5G ANT 2 3550~3700MHz)



5. Summary

1.Data:

Antenna PeakGain&Efficiency

Item	Frequency(MHz)	3550	3560	3570	3580	3590	3600	3610	3620	3625	3630	3640	3650	3660	3670	3680	3690	3700
5G ANT1	PeakGain(dBi)	3.96	3.92	3.89	3.82	3.86	4.06	4.26	4.39	4.13	4.47	4.70	4.74	4.77	4.74	4.78	4.77	4.66
	Efficiency(%)	67.47	66.37	65.25	64.56	64.10	66.02	67.50	69.54	67.87	70.71	73.91	75.59	76.69	75.89	75.84	75.60	74.64
	HPBW@phi=0°	32.77	33.01	35.34	39.52	37.78	35.89	34.98	37.32	56.83	41.02	42.30	42.23	41.75	40.76	39.52	39.57	39.88
	HPBW@phi=90°	39.52	38.05	36.18	36.27	36.79	37.37	37.69	38.04	36.63	38.15	38.60	38.96	38.57	38.36	37.86	37.56	36.75
5G ANT2	PeakGain(dBi)	4.73	4.58	4.35	4.36	4.39	4.52	4.64	4.74	4.72	4.71	4.93	4.98	4.95	4.82	4.85	4.84	4.73
	Efficiency(%)	64.83	63.51	62.25	61.69	61.24	62.97	64.60	64.34	66.89	67.97	71.27	72.77	73.82	73.14	73.53	73.49	72.21
	HPBW@phi=0°	35.90	35.60	33.99	33.54	33.86	34.82	35.73	33.60	35.61	35.47	36.08	36.61	36.71	36.82	37.00	37.39	37.66
	HPBW@phi=90°	39.86	38.47	36.78	36.15	35.81	31.37	32.08	34.34	36.54	37.69	37.66	36.92	35.14	33.60	33.86	34.17	34.56