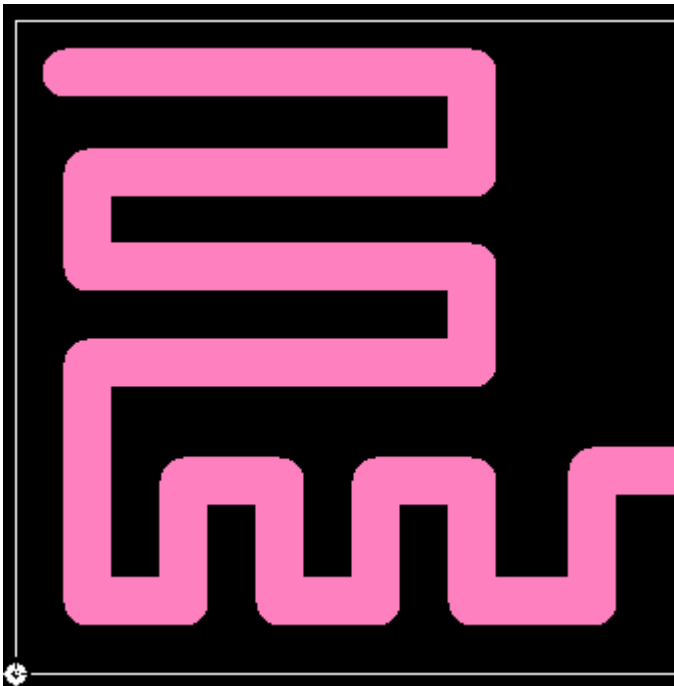


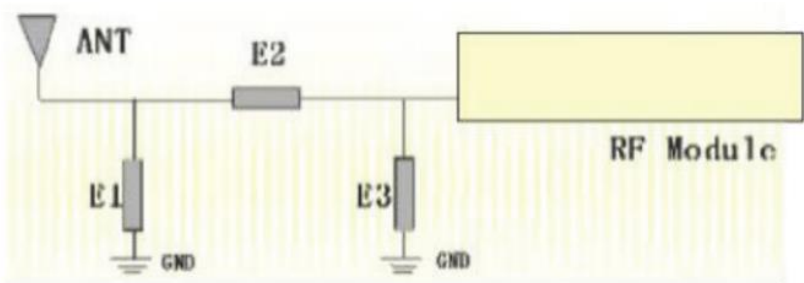
Antenna test report

Project name	
Customer	BYM
test frequency	BT (2.4G)
Antenna material	PVB
Product name	BAND
Material Science	Metal
Testers	Lim Ingyun
Consulting phone	
date	2023. 6. 21

Antenna appearance (total length: 31mm)



Antenna circuit matching description



matching	parameter	
E1(0402)	10nH	
E2(0402)	1pF	
E3(0402)	3.9nH	

SWR and Return loss

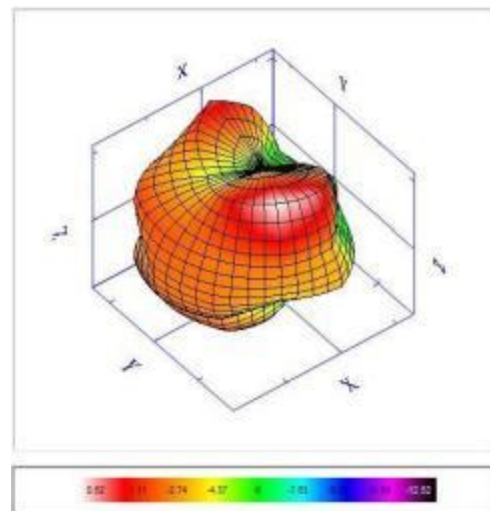
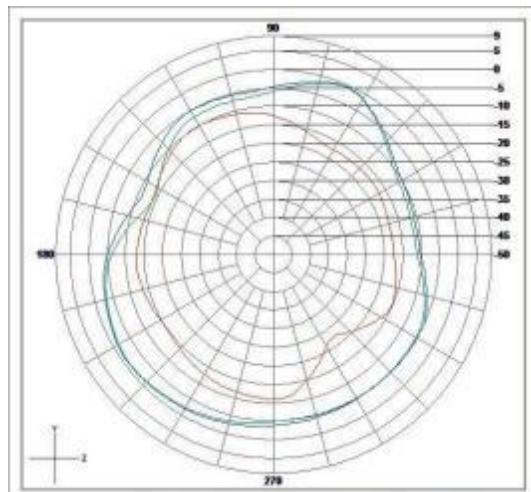
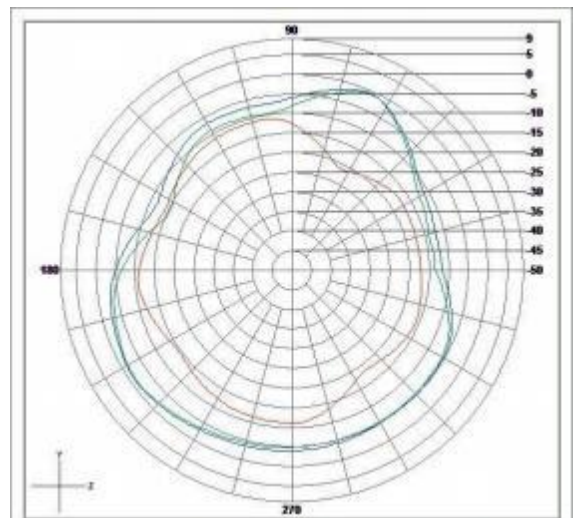
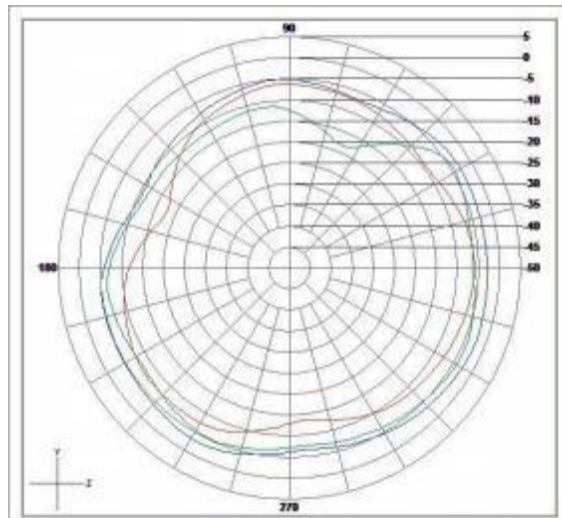


SWR



Return loss

Radiation Pattern



Antenna efficiency and Gain

FEITUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-5.10	-5.11	-5.30	-5.48	-5.58	-5.57	-5.56	-5.46	-5.49	-5.41	-5.10
Peak EIRP (dBm)	-0.88	-0.84	-1.02	-1.11	-1.23	-1.17	-1.08	-0.94	-0.86	-0.81	-0.48
Directivity (dBi)	4.22	4.27	4.29	4.37	4.35	4.40	4.47	4.52	4.64	4.60	4.62
Efficiency (dB)	-5.10	-5.11	-5.30	-5.48	-5.58	-5.57	-5.56	-5.46	-5.49	-5.41	-5.10
Efficiency (%)	30.90	30.90	29.50	28.30	27.70	27.70	27.80	28.50	28.20	28.80	30.90
Gain (dBi)	-0.88	-0.84	-1.02	-1.11	-1.23	-1.17	-1.08	-0.94	-0.86	-0.81	-0.48
NHPRP \pm Pi/4 (dBm)	-6.23	-6.23	-6.48	-6.63	-6.72	-6.65	-6.49	-6.27	-6.26	-6.17	-5.91
NHPRP \pm Pi/6 (dBm)	-7.63	-7.63	-7.88	-8.03	-8.13	-8.06	-7.91	-7.68	-7.68	-7.60	-7.34
NHPRP \pm Pi/8 (dBm)	-9.72	-9.73	-9.95	-10.13	-10.22	-10.16	-10.02	-9.80	-9.81	-9.74	-9.49
Upper Hem. PRP (dBm)	-8.90	-8.92	-9.12	-9.30	-9.40	-9.41	-9.41	-9.35	-9.41	-9.34	-9.05
Lower Hem. PRP (dBm)	-7.44	-7.44	-7.63	-7.81	-7.91	-7.88	-7.86	-7.74	-7.75	-7.66	-7.35
Upper Hem. PRP (%)	12.88	12.83	12.24	11.75	11.48	11.45	11.44	11.62	11.46	11.64	12.45
Lower Hem. PRP (%)	18.02	18.03	17.25	16.54	16.20	16.29	16.39	16.84	16.78	17.12	18.42