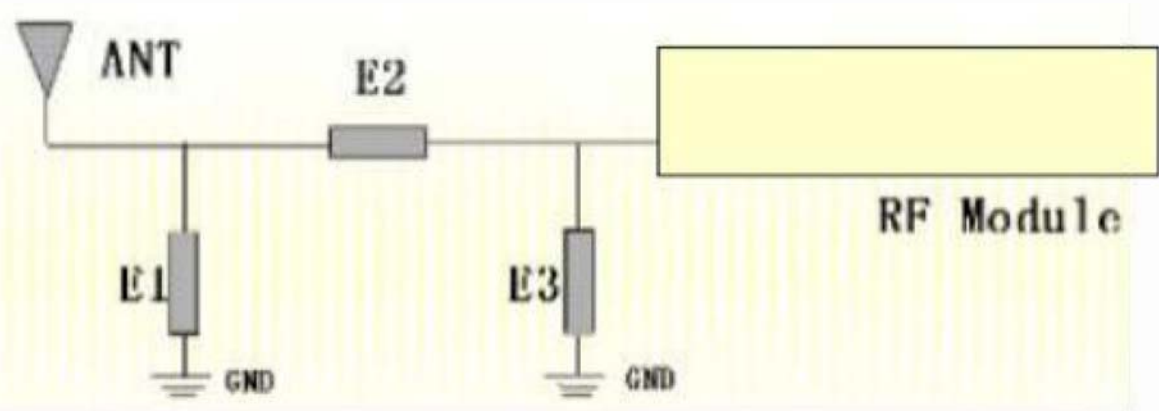


Antenna test report

Project name	
Customer	BYM
test frequency	BT (2.4G)
Antenna material	PVB
Product name	BAND
Material Science	Metal
Testers	liuq ingyun
Consulting phone	
date	2022. 6. 21

Antenna appearance	Antenna circuit matching description		
 尺寸22*0.6mm			
	matching	parameter	
	E1(0402)	10nH	
	E2(0402)	1pF	
	E3(0402)	3.9nH	

Passive antenna test



SWR

frequency	SWR
2400	1.74



Return loss

frequency	Return loss
2400	-11.33db

Passive antenna efficiency test

(antenna 2.4G-3D- benefit)

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

Contrast data diagram of antenna measured (10 meters distance)

