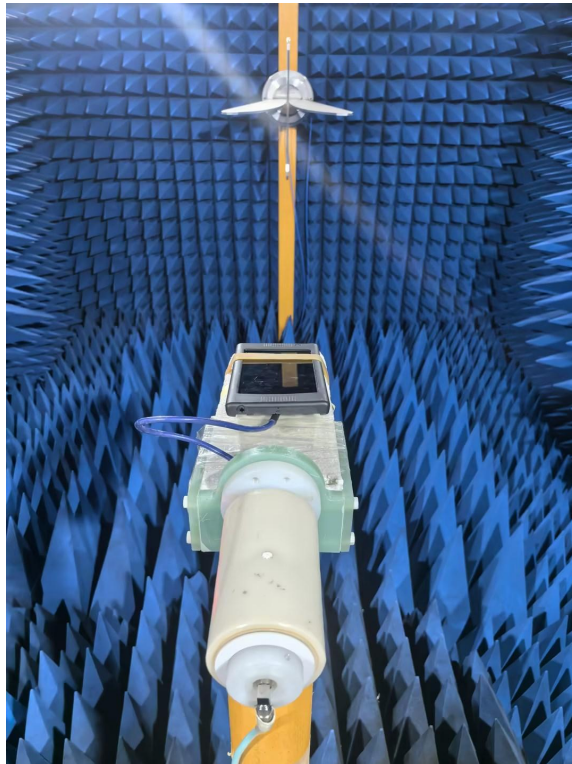


2.4G-2.48G&5G-5.8G ANTENNA REPORT

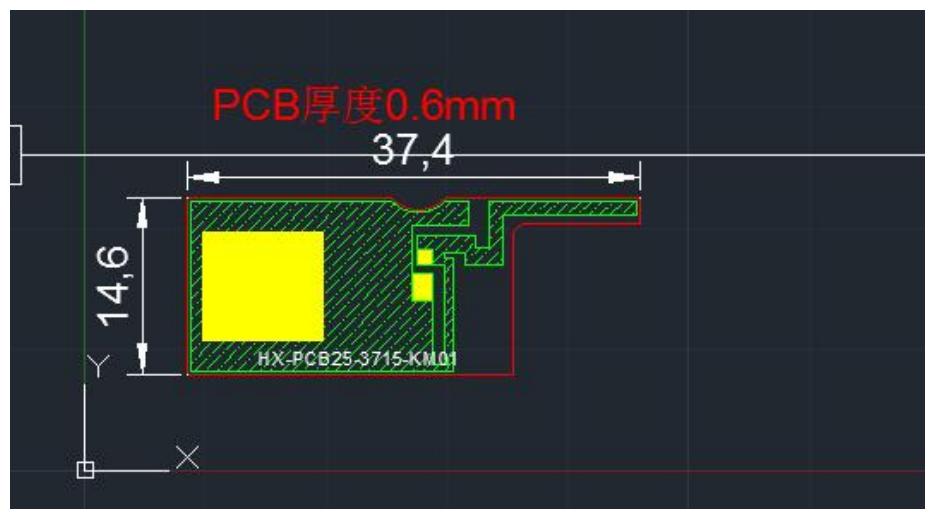
SPECIFICATIONS	
Frequency (MHz)	2400-2480&5000-5800
Peak Gain (dBi)	-0.91 & 1.91
Average Gain (dBi)	>-0.68
VSWR	<3.0 & <6.0
Impedance (Ω)	50
Antenna Type	PCB Dipole antenna
Polarization	Linear
Manufacture	Shenzhen Hongxin Technology Electronics Co., Ltd



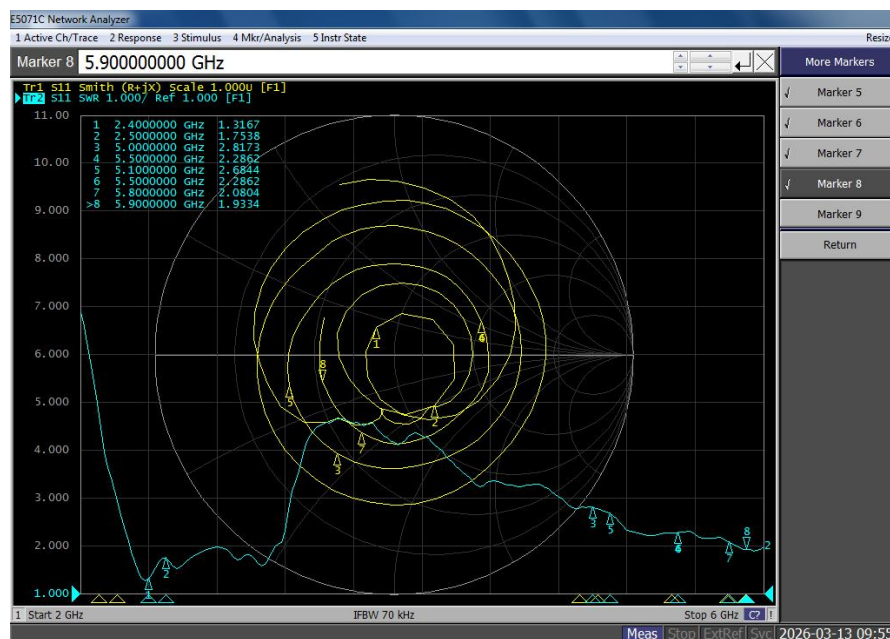
ANTENNA PHOTOSHOW :



ANTENNA SIZE :



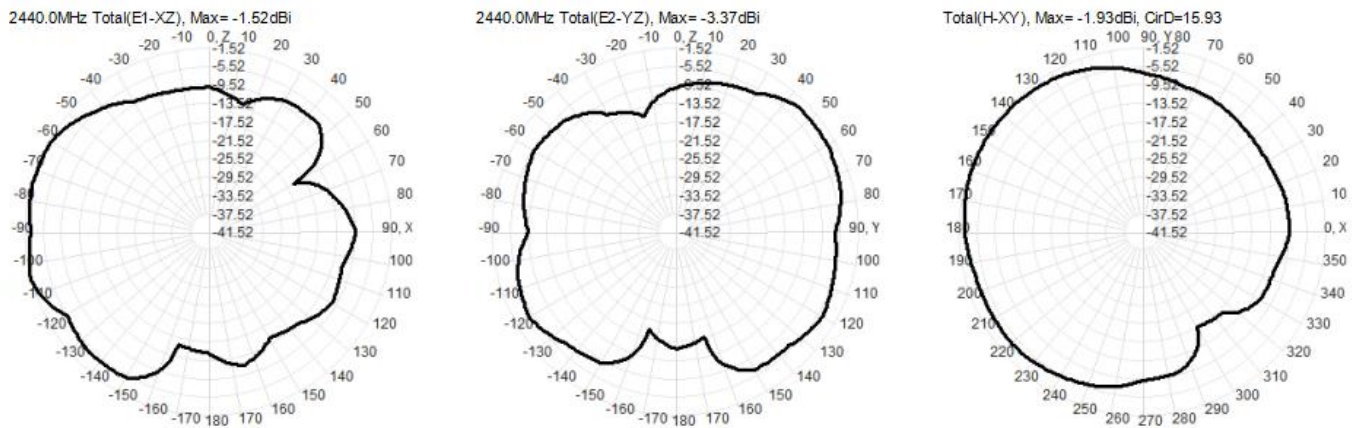
ANTENNA ELECTRIC PARAMETER:



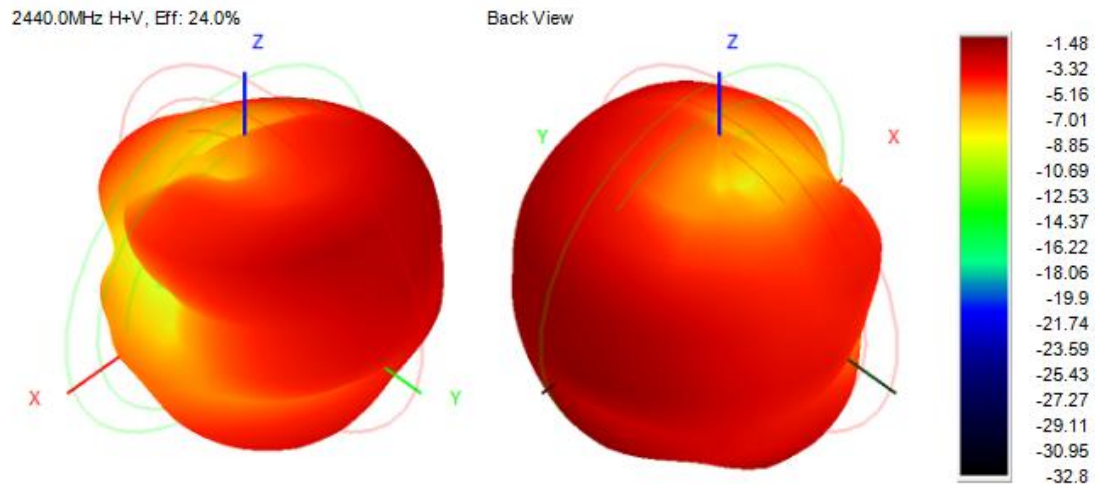
Antenna efficiency and gain:

Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
Efficiency (dBi)	-5.22	-5.42	-5.51	-5.62	-6.19	-6.68	-7.10	-7.42	-7.84
Gain (dBi)	-0.91	-0.97	-1.00	-1.14	-1.48	-1.74	-2.05	-2.30	-2.74
Efficiency (%)	30.04	28.68	28.10	27.42	24.03	21.49	19.49	18.09	16.44
Directivity (dB)	4.32	4.45	4.51	4.48	4.71	4.94	5.05	5.12	5.10
Peak Gain Position (Theta)	60.00	60.00	60.00	60.00	105.00	105.00	105.00	105.00	105.00
Peak Gain Position (Phi)	165.00	165.00	165.00	165.00	165.00	165.00	180.00	180.00	195.00
Efficiency ThetaPol (%)	24.09	23.38	23.30	22.98	20.29	18.02	15.94	13.96	11.64

2440MHz 2D-Theta Pattern



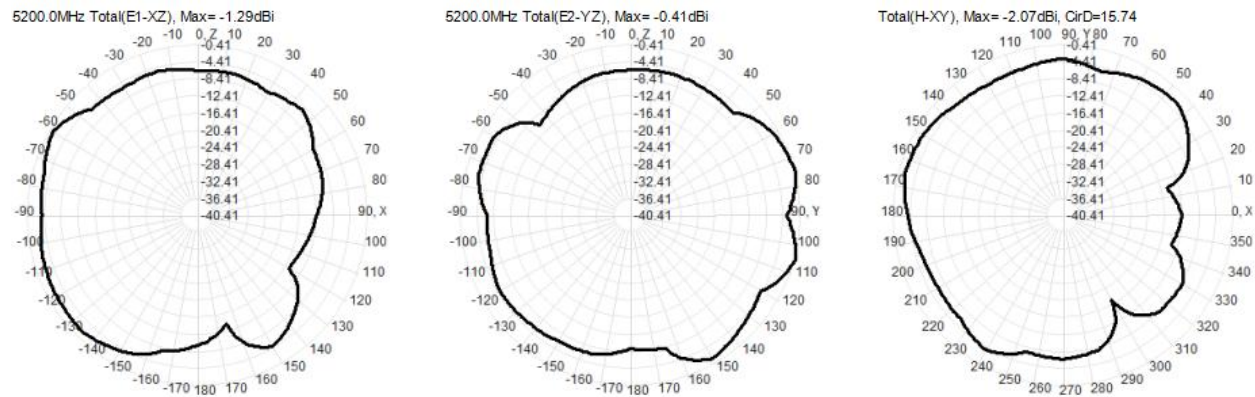
2440MHz 3D-Horizontal Pattern



Frequency ID	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
Frequency (MHz)	5400	5420	5440	5460	5480	5500	5520	5540	5560	5580	5600	5620	5640	5660	5680	5700	5720	5740	5760	5780	5800	5820
Efficiency (dBi)	-4.70	-4.59	-4.63	-4.74	-4.89	-4.91	-4.85	-5.08	-5.05	-5.02	-4.55	-4.54	-4.50	-4.52	-4.49	-4.48	-4.65	-4.41	-4.48	-4.26	-4.18	-3.98
Gain (dBi)	1.05	1.19	1.34	1.42	1.27	1.26	1.43	1.43	1.49	1.56	2.04	1.89	1.75	1.58	1.54	1.42	1.05	1.21	0.94	1.09	1.01	1.25
Efficiency (%)	33.92	34.78	34.40	33.60	32.43	32.31	32.72	31.03	31.29	31.51	35.11	35.17	35.45	35.35	35.59	35.68	34.29	36.21	35.64	37.51	38.15	40.02
Directivity (dB)	5.75	5.78	5.97	6.15	6.16	6.17	6.28	6.52	6.53	6.58	6.59	6.43	6.25	6.09	6.03	5.89	5.70	5.62	5.42	5.35	5.19	5.23
Peak Gain Position (Theta)	150.00	75.00	75.00	75.00	75.00	75.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	75.00

Frequency ID	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Frequency (MHz)	2500	5000	5020	5040	5060	5080	5100	5120	5140	5160	5180	5200	5220	5240	5260	5280	5300	5320	5340	5360	5380
Efficiency (dBi)	-7.80	-5.00	-5.04	-5.22	-5.04	-4.79	-4.74	-4.71	-4.76	-4.57	-4.68	-4.74	-4.72	-4.47	-4.26	-4.36	-4.36	-4.40	-4.44	-4.61	-4.67
Gain (dBi)	-3.05	-0.08	-0.15	-0.29	-0.19	-0.01	0.25	0.32	0.41	0.68	0.74	0.74	1.02	1.51	1.89	1.91	1.88	1.79	1.71	1.33	1.09
Efficiency (%)	16.61	31.61	31.32	30.09	31.34	33.16	33.57	33.81	33.41	34.94	34.03	33.58	33.75	35.76	37.52	36.67	36.67	36.29	35.97	34.62	34.10
Directivity (dB)	4.75	4.92	4.89	4.92	4.85	4.79	4.99	5.03	5.17	5.25	5.42	5.48	5.73	5.97	6.14	6.27	6.23	6.19	6.15	5.94	5.77

5200MHz 2D-Theta Pattern



5200MHz 3D-Horizontal Pattern

