

(1)Antenna performance

- 1.This approval sheet supports for MID project. PCB antennas include in this project. This report is for the performance of WIFI&BT antenna.
- 2.Antenna shape size: Meet the requirement of MID
- 3.Antenna band: 2.4GHz~5GHz
- 4.Antenna material: Antenna material meet the requirement of MID
- 5.Adhesive performance: Adhesive performance meet the requirement of MID
- 6.Antenna performance meet the spec below:

Description	2.4GHz~5GHz	Units
VSWR	≤ 2.0	
Average Antenna Gain	≥ -4.5	dB
Feed Impedance	50 ohms	
Operating Temperature	-40 to +85 deg C	
Polarization / Azimuth	Linear / Omni-directional	

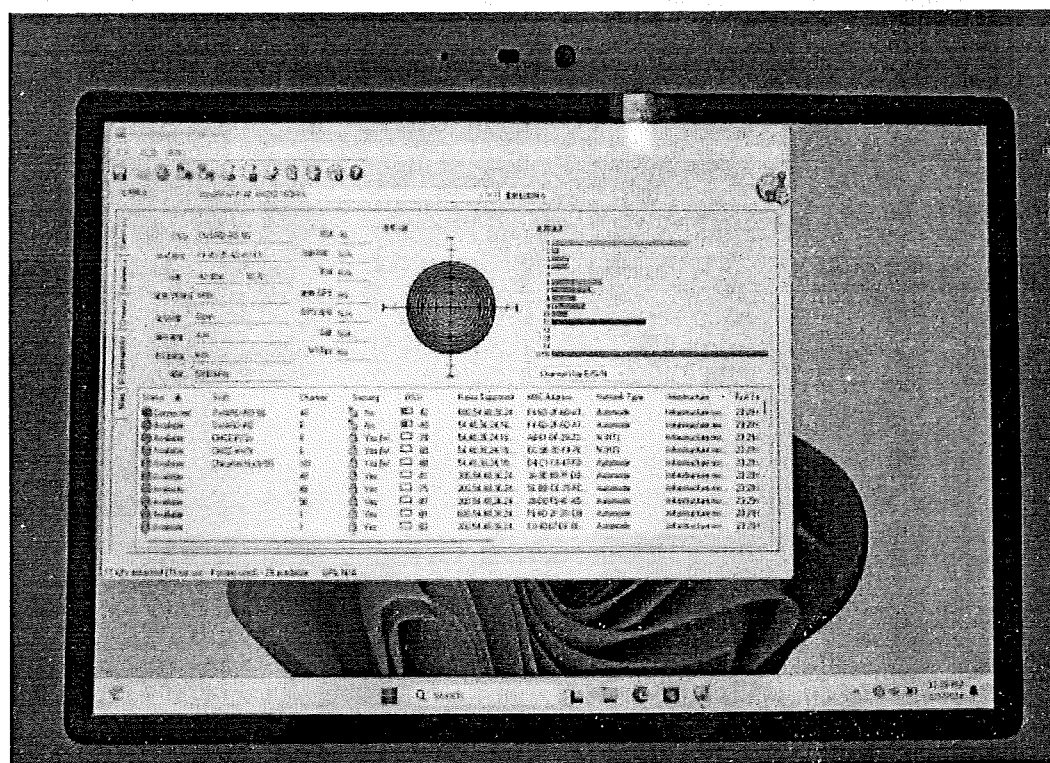
(2)Mechanical Information

Mechanical Dimension	
Cable Length	155mm/black
Description	WIFI&BT antenna
Material	PCB
Coaxial Cable	50 Ω /O. D. 0.81mm
Environmental	
Operation Temperature	-40 to +85 deg C
Storage Temperature	-40 to +85 deg C

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Passive Test For 2.4Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
2400	29.2	-5.35	-0.98	-3.13	17.01	12.189	-0.98	-16.25
2410	27.47	-5.61	-1.4	-3.55	15.839	11.63	-1.4	-16.87
2420	31.76	-4.98	-0.93	-3.08	18.163	13.594	-0.93	-17.66
2430	29.27	-5.34	-1.47	-3.62	16.624	12.644	-1.47	-20.05
2440	27.98	-5.53	-1.81	-3.96	15.763	12.215	-1.81	-21.82
2450	20.72	-6.84	-3.25	-5.4	11.514	9.207	-3.25	-23.43
2460	21	-6.78	-3.17	-5.32	11.459	9.539	-3.17	-20.36
2470	20.12	-6.96	-3.3	-5.45	10.775	9.346	-3.3	-20.47
2480	23.72	-6.25	-2.7	-4.85	12.479	11.245	-2.7	-19.98
2490	24.45	-6.12	-2.52	-4.67	12.577	11.875	-2.52	-17.97
2500	25.73	-5.9	-1.94	-4.09	12.875	12.852	-1.94	-20

Passive Test For 5Gwifi								
Freq	Effi	Effi	Gain	Gain	UHS	DHS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
5000	52.3	-2.81	2.68	0.53	22.924	29.377	2.68	-15.9
5100	50.9	-2.93	2.24	0.09	21.371	29.534	2.24	-13.63
5200	54.99	-2.6	2.41	0.26	22.202	32.786	2.41	-15.57
5300	61.66	-2.1	2.97	0.82	26.235	35.422	2.97	-16.93
5400	56.7	-2.46	2.47	0.32	26.423	30.275	2.47	-17.57
5500	57.51	-2.4	3.27	1.12	26.67	30.836	3.27	-14.98
5600	48.65	-3.13	1.36	-0.79	22.452	26.196	1.36	-14.54
5700	47.17	-3.26	2.42	0.27	25.309	21.856	2.42	-13.16
5800	43.02	-3.66	2.3	0.15	21.97	21.053	2.3	-15.33
5900	34.93	-4.57	2.14	-0.01	16.625	18.303	2.14	-17.36
6000	39.79	-4	2.05	-0.1	16.427	23.36	2.05	-17.81



3D pattern

