



Electrical Specifications:

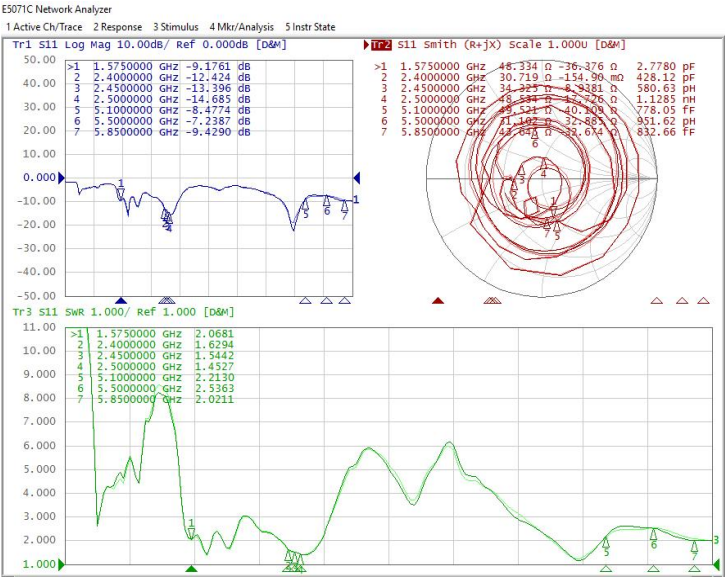
Frequency Band	GPS&WIFI&BT&BLE	The Antenna Material	FPC
Nominal Impedance	50 Ω	Antenna Connection Mode	
VSWR	≤ 3.0	Working Temperature	-40°C ~ +85°C
Peak Gain	1575MHz: 1.66	Keep The Temperature	+19°C ~ +23°C
	2400-2500MHz: 2.04	Polarization	Linear Polarization
	5125-5850MHz: 2.79		

Test Conditions And Methods:

Test Instruments	Test Method	Test Result
7*4*3 microwave darkroom E5071B network analyzer 48 probe test system MT8862 comprehensive tester	1. Assemble the antenna to be tested on the prototype. 2. Put the prototype on the test fixture in a dark room, and conduct comprehensive test with it. Instrument/analyzer connection is established. 3. Test antenna passive data with test software.	Refer to the Test Report

Passive performance test parameters

Frequency (GHz)	1575	
VSWR	2	
Frequency (GHz)	2400	2500
VSWR	1.6	1.45
Frequency (GHz)	5100	5850
VSWR	2.2	2



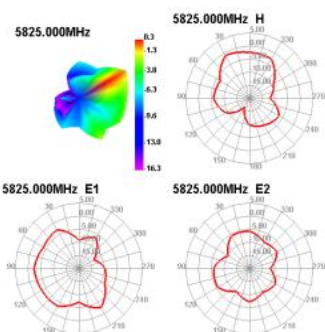
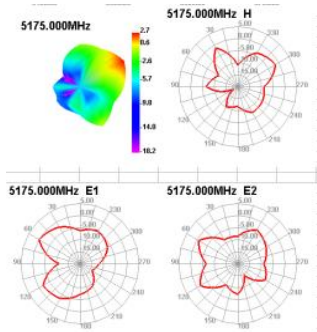
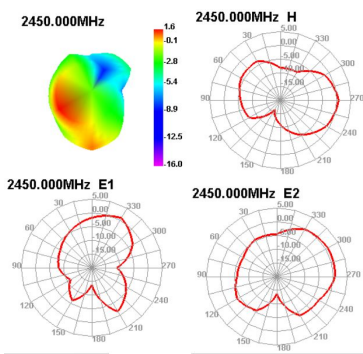
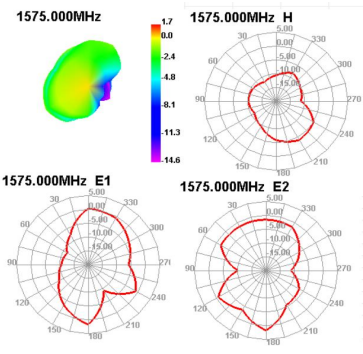
antenna passive data:

Freq (MHz)	Effi (%)	Gain (dBi)
1560	33.16	1.11
1561	33.76	1.21
1562	34.08	1.26
1563	34.11	1.29
1564	33.91	1.27
1565	33.63	1.26
1566	33.38	1.23
1567	33.27	1.24
1568	33.39	1.27
1569	33.72	1.33
1570	34.22	1.41
1571	34.68	1.49
1572	35.08	1.57
1573	35.35	1.62
1574	35.4	1.65
1575	35.28	1.66
1576	35.09	1.66
1577	34.92	1.65
1578	34.85	1.67
1579	34.92	1.7
1580	35.18	1.75

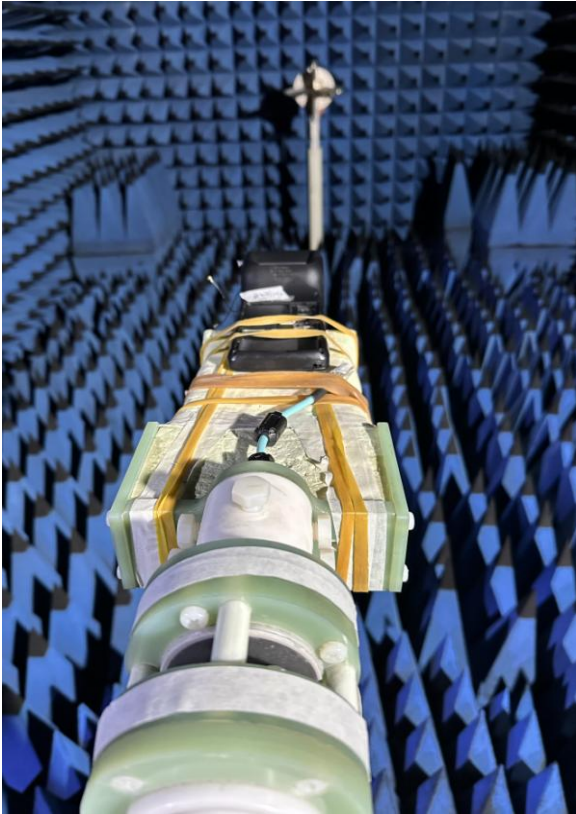
2400	42.01	0.16
2410	42.68	0.42
2420	43.71	0.78
2430	45.59	1.22
2440	46.91	1.42
2450	47.36	1.63
2460	48.48	1.83
2470	49.33	1.97
2480	48.99	1.98
2490	49.18	2.04
2500	48.4	1.81

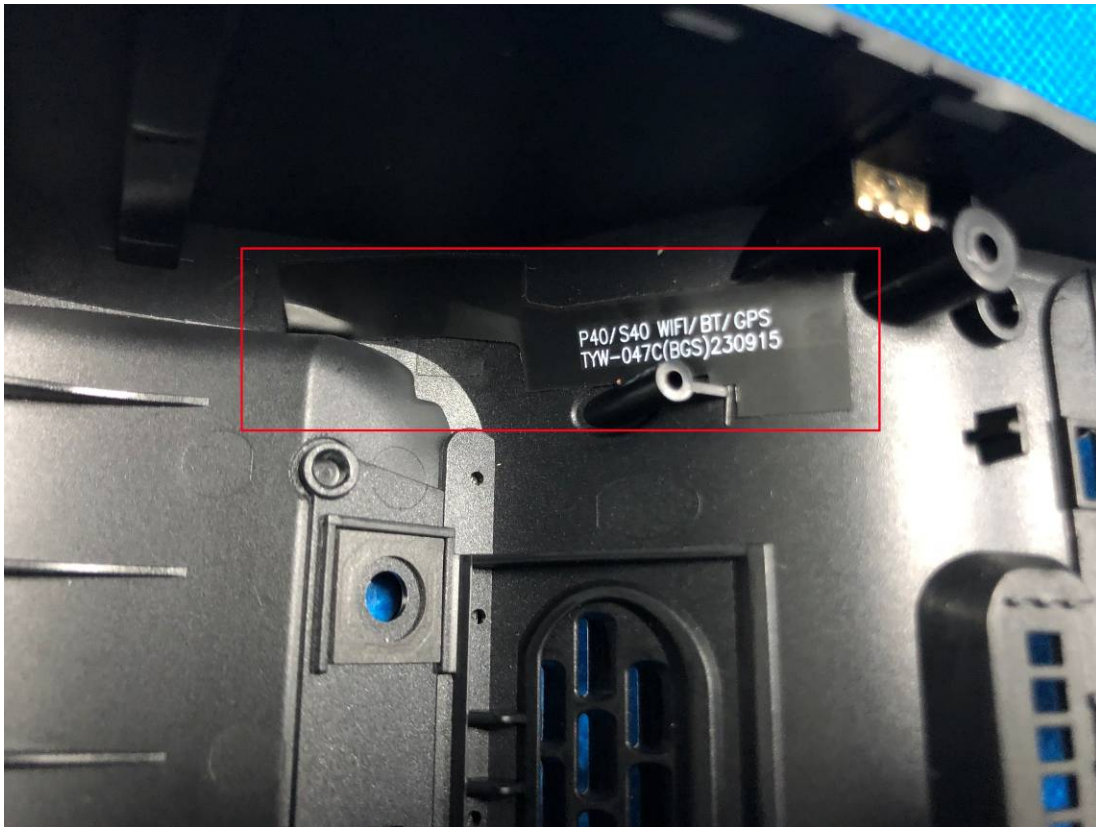
5125	39.84	2.05
5150	38.6	1.57
5175	42.05	2.65
5200	37.26	1.82
5225	41.25	2.62
5250	40.59	2.27
5275	41.35	2.48
5300	42.37	2.49
5325	42.97	2.68
5350	42.51	2.66
5375	45.18	2.79
5400	41.74	2.1
5425	43.14	2.45
5450	43.96	2.42
5475	43.55	2.21
5500	40.54	1.71
5525	35.63	0.53
5550	36.22	0.35
5575	37.18	0.76
5600	38.39	1.05
5625	40.78	1.66
5650	39.23	1.22
5675	40.1	1.44
5700	40.27	1.62
5725	37.55	1.28
5750	35.92	0.99
5775	34.49	0.86
5800	32.1	0.04
5825	33.5	0.34

Directional diagram



Picture of machine





P40/S40 WIFI/BT/GPS
TYW-047C(BGS)230915