

承 认 书

SPECIFICATION FOR APPROVAL

Name:

WIFI/BT 2.4G Antenna

Item No:

TYY-WH-WIFI

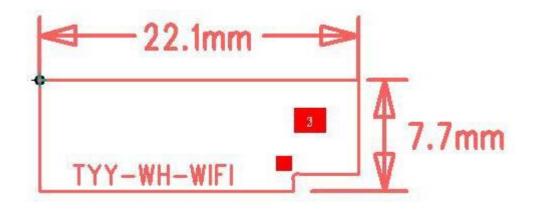
	Customer approve		
MADE	CHECKED	APPROVED	
QIU	Zhiyuan Jiang	Xiaohong Tang	
DATE: 2022.10.7	DATE		



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WIFI Specification

- 1. Specification
- View 1 TYY-WH-WIFI 天线 WIFI 天线



View 2 TYY-WH-WIFI Antenna (length 85+/-2mm)



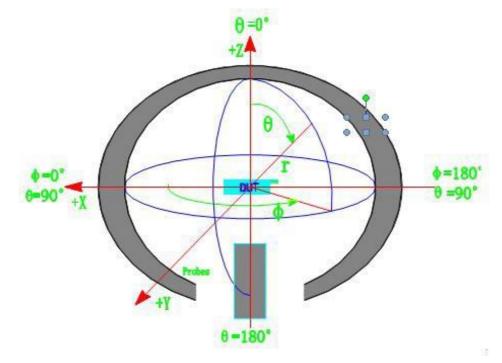
View 3 Drawing of site



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View 4 WIFI Return Loss





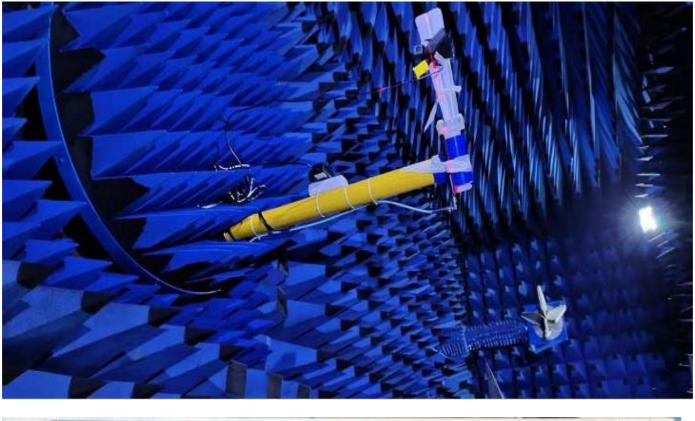
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View 5 OTA Microwave dark chamber test instrument





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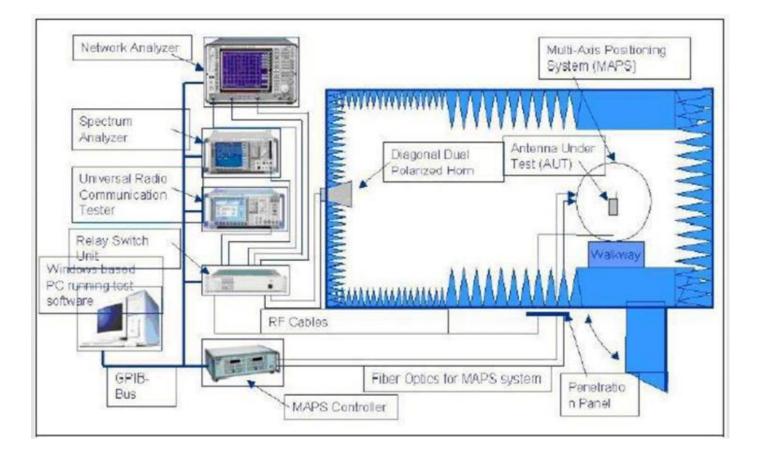




View 6 Testing environment



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2.3 **VSWR** Test

Setup of test 2.3.1.

VSWR The test device in turn is connected to: Agilent E5071B network analyzer ®50 ohm coaxial

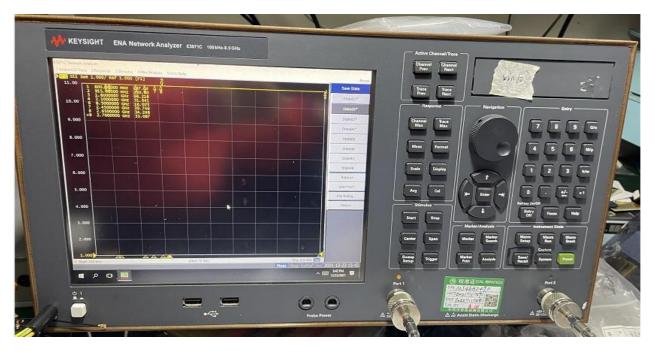
Cable®120mm long copper tube ® test fixture

Treatment of test fixture: A hard cable is used to lead out the SMA-J connector from the 50 ohm test point of the antenna on the tablet PCB, which is connected with the copper tube with a choke, and then connected to other devices in turn.

View 7 Network analyzer 5071C



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View 8 WIFI VSWR



frequency	2400	2500	5700	5800	
(MHz)					
VSWR	1.4	1.1	1.4	1.9	



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View 9 Gain

FETUKELI											
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
Efficiency (dBi)	-1.72	-1.68	-1.52	-1.25	-1.06	-0.83	-0.61	-0.47	-0.64	-0.87	-1.04
Gain (dBi)	2.04	2.10	2.26	2.72	2.68	2.94	3.01	2.88	2.20	1.68	1.56
Efficiency (%)	67.32	67.94	70.50	75.01	78.27	82.59	86.95	89.83	86.21	81.78	78.67
Directivity (dB)	3.76	3.78	3.78	3.97	3.75	3.77	3.62	3.34	2.85	2.55	2.60
Peak Gain Position (Theta)	83.00	82.00	83.00	85.00	88.00	92.00	88.00	93.00	97.00	73.00	75.00
Peak Gain Position (Phi)	30.00	30.00	30.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00
Efficiency ThetaPol (%)	65.57	66.34	69.10	73.67	76.99	81.33	85.58	88.35	84.69	80.22	77.04
Efficiency PhiPol (%)	1.75	1.60	1.40	1.35	1.28	1.26	1.37	1.49	1.51	1.57	1.63
Upper Hem. Efficiency (%)	41.71	41.72	42.46	44.27	45.34	47.06	48.83	50.02	47.88	45.34	43.58
Lower Hem. Efficiency (%)	25.61	26.22	28.05	30.74	32.93	35.53	38.13	39.81	38.33	36.45	35.08

