

Qingyuan Qi Sheng Technology Co., Ltd
ANT TEST

list

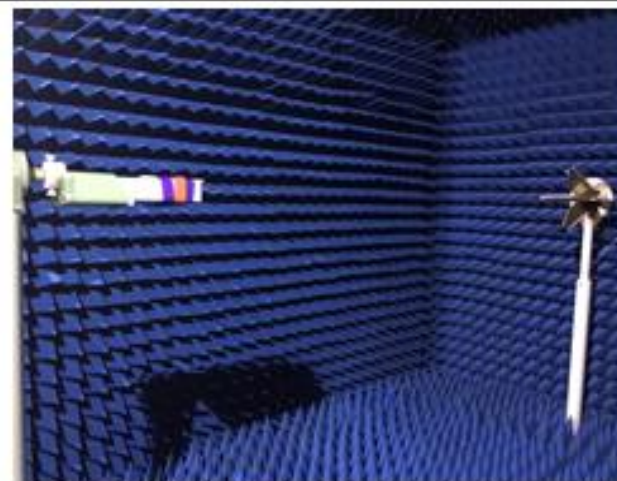
- 1、 testing environment
- 2、 Circuit
- 3、 test data
- 4、 The position of the antenna on the PCB board
- 5、 3D pattern

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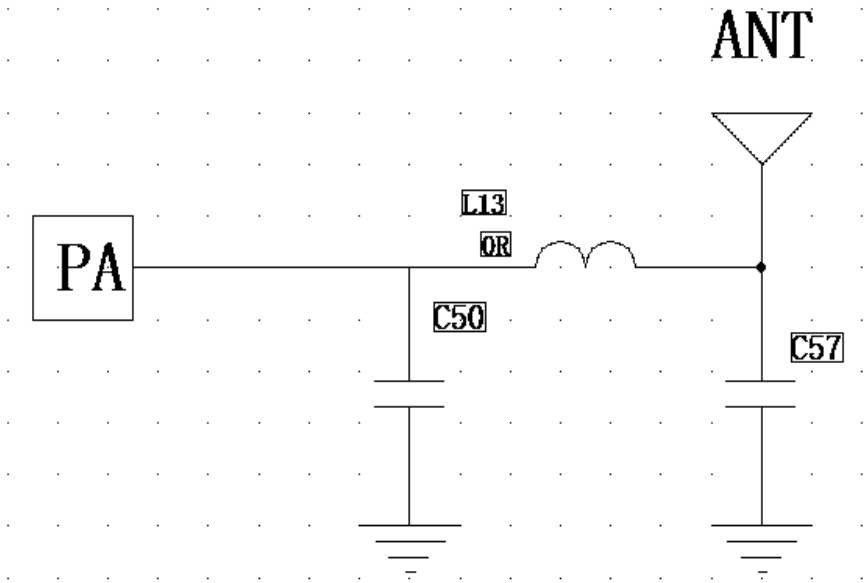
1、 TESTING ENVIRONMENT

	TEST ITEM	Instrument and equipment
1、 S-parameter	1、 Return Loss 2、 Voltage standing wave ratio (VSWR)	Network analysis instrument: Agilent E5071B HP 8753D
2、 Active testing	1、 Transmission power (TRP) 2、 Receiving sensitivity 3、 Frequency error range	1. Testing room: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Network analysis instrument: Agilent 8960 E5515B ×2 StarPoint SP6011
3、 Passive Test	1、 Antenna gain 2、 Efficiency	1. Testing room: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.Network analysis instrument Agilent E5071B HP 8753D

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2、Circuit



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3、Passive efficiency and gain data of antenna

Frequency	1	2	3	4	5	6	7	8	9	10	11
Frequency	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	# #	2480.0	2490.0	2500.0
Point Values											
Ant. Port I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. P	-4.63	-4.76	-4.81	-4.98	-5.05	-5.13	-5.20	# #	-5.60	-5.74	-5.84
Peak EIRP	0.62	0.59	0.56	0.47	0.46	0.50	0.53	# #	0.27	0.16	0.03
Directivity	5.25	5.34	5.37	5.45	5.52	5.63	5.73	5.82	5.87	5.89	5.87
Efficiency	-4.63	-4.76	-4.81	-4.98	-5.05	-5.13	-5.20	# #	-5.60	-5.74	-5.84
Efficiency	34.40	33.50	33.00	31.80	31.20	30.70	30.20	# #	27.60	26.70	26.10
Gain (dBi)	0.62	0.59	0.56	0.47	0.46	0.50	0.53	0.43	0.27	0.16	0.03
NHPRP ±P	-6.13	-6.25	-6.30	-6.44	-6.51	-6.57	-6.62	###	-6.95	-7.05	-7.14
NHPRP ±P	-7.56	-7.68	-7.73	-7.87	-7.93	-7.98	-8.02	###	-8.36	-8.48	-8.59
NHPRP ±P	-8.69	-8.81	-8.88	-9.02	-9.08	-9.11	-9.14	###	-9.48	-9.61	-9.73
Upper Hen	-7.30	-7.43	-7.51	-7.69	-7.78	-7.87	-7.97	###	-8.44	-8.60	-8.68
Lower Hen	-8.01	-8.13	-8.17	-8.31	-8.37	-8.43	-8.47	###	-8.78	-8.90	-9.03
Upper Hen	18.62	18.07	17.76	17.03	16.69	16.32	15.96	###	14.33	13.80	13.55
Lower Hen	15.83	15.38	15.24	14.77	14.54	14.35	14.22	###	13.24	12.89	12.51

5、 3D pattern

