



Seek Yes Value
Win-Win

Shenzhen Qianmu Communication Technology Co.

Shenzhen Qianmu Communication Technology Co.,Ltd.

Specialized in antenna solutions, design and production

Client Account: Pei Cheng
Item Item: CP20

(Replacement Plate)

Day Period: 2023-
7-10

Edition Version: A1

Radio Frequency: ZHENG LI GUO



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test environment

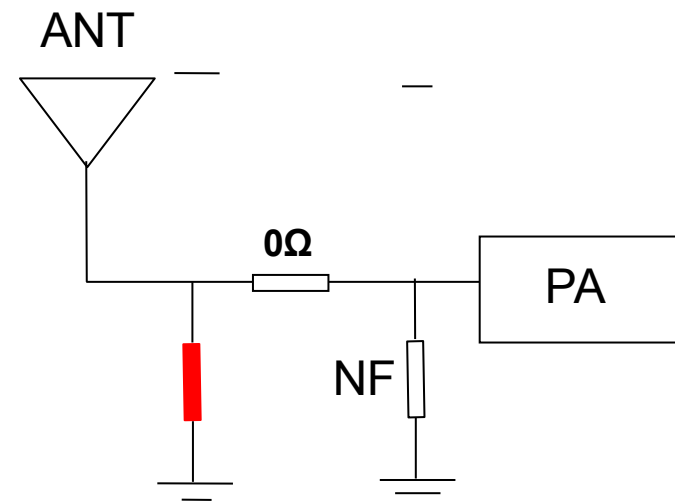
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	Test items	installations
1. S-parameter	1. Return Loss ☒ (Return Loss) 2. Voltage Standing Wave Ratio (VSWR)	Network Analyzer: Agilent E5071B HP 8753D
2. Active testing (Active)	1. Transmit Power (TRP) 2. Receiving Sensitivity (TIS) 3. frequency error 4. Screen off, screen on	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive Tester: Agilent 8960
3. Passive testing (Passive)	1. Antenna Gain 2. Antenna Efficiency	E5515B X 2 StarPoint SP6011 1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network Analyzer: Agilent E5071B HP 8753D



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Matching Circuit- WIFI Antenna



Original matching circuit not changed



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WIFI Antenna 2400-2500Mz Active Data

antenna state	FPC Sample s		
	WIFI2400~2500Mz802.11b 11Mbps		
Channel	1	6	11
TRP	14.11	14.26	14.46
TIS	-80.24	-81.53	-81.17



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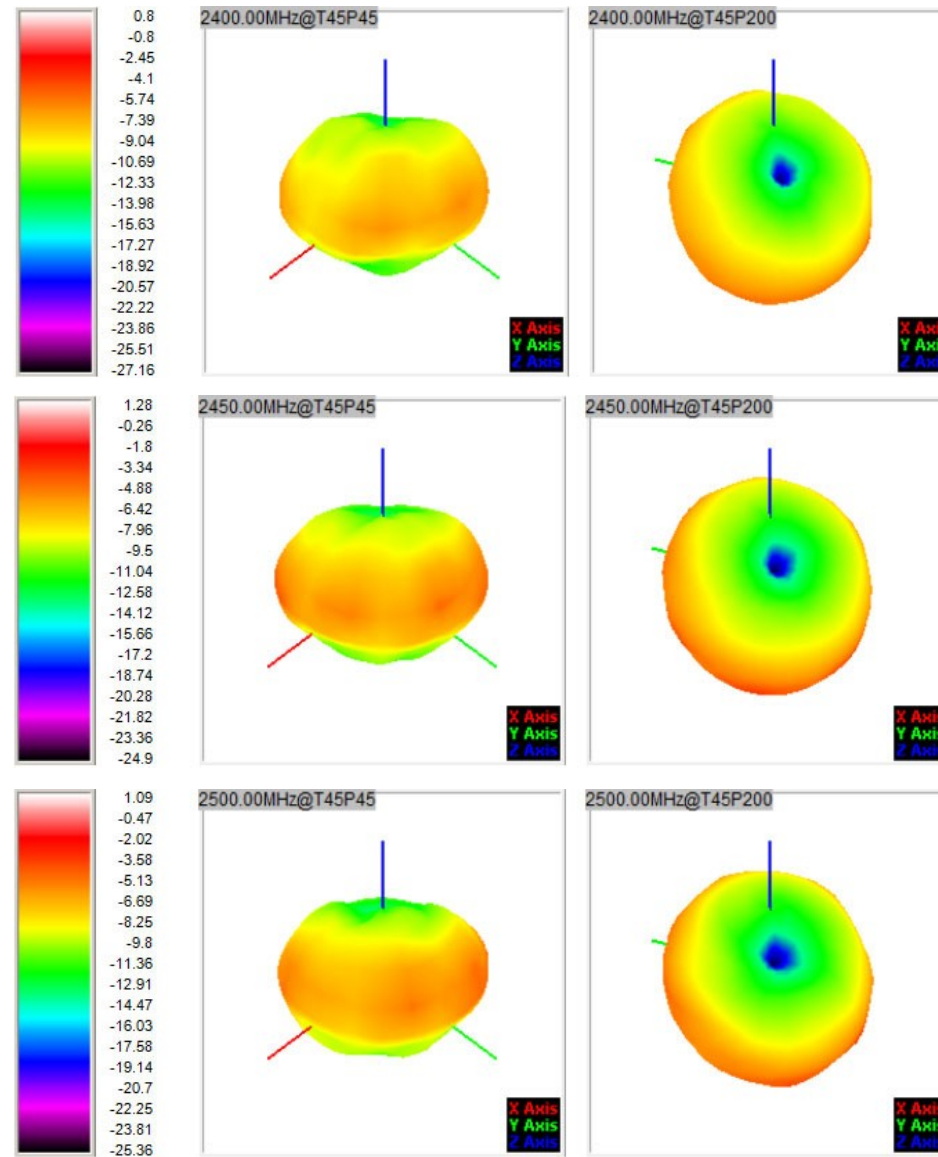
Passive efficiency as well as gain:

FEITUKEJI											
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
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-3.40	-3.44	-3.45	-3.22	-3.19	-2.91	-3.08	-3.30	-3.28	-3.05	-2.93
Peak EIRP (dBm)	0.85	0.79	0.65	1.04	1.08	1.28	1.01	0.91	1.00	1.13	1.09
Directivity (dBi)	4.24	4.23	4.10	4.26	4.27	4.19	4.08	4.21	4.27	4.18	4.02
Efficiency (dB)	-3.40	-3.44	-3.45	-3.22	-3.19	-2.91	-3.08	-3.30	-3.28	-3.05	-2.93
Efficiency (%)	45.80	45.30	45.20	47.60	48.00	51.10	49.30	46.70	47.00	49.50	50.90
Gain (dBi)	0.8	-0.79	-0.65	-1.04	-1.08	-1.28	-1.01	-0.91	-1.00	-1.13	-1.09
NHPRP $\pm\pi/4$ (dBm)	-4.10	-4.13	-4.12	-3.88	-3.83	-3.55	-3.71	-3.93	-3.90	-3.67	-3.55
NHPRP $\pm\pi/6$ (dBm)	-5.18	-5.22	-5.20	-4.96	-4.92	-4.64	-4.80	-5.03	-4.99	-4.75	-4.63
NHPRP $\pm\pi/8$ (dBm)	-6.10	-6.14	-6.13	-5.89	-5.86	-5.59	-5.75	-5.97	-5.92	-5.67	-5.55
Upper Hem. PRP (dBm)	-6.03	-6.08	-6.09	-5.88	-5.86	-5.61	-5.82	-6.11	-6.12	-5.90	-5.75
Lower Hem. PRP (dBm)	-6.81	-6.85	-6.86	-6.61	-6.57	-6.27	-6.37	-6.53	-6.47	-6.24	-6.14
Upper Hem. PRP (%)	24.93	24.64	24.58	25.82	25.94	27.51	26.19	24.48	24.46	25.73	26.63
Lower Hem. PRP (%)	20.83	20.63	20.63	21.82	22.05	23.63	23.07	22.25	22.57	23.78	24.32



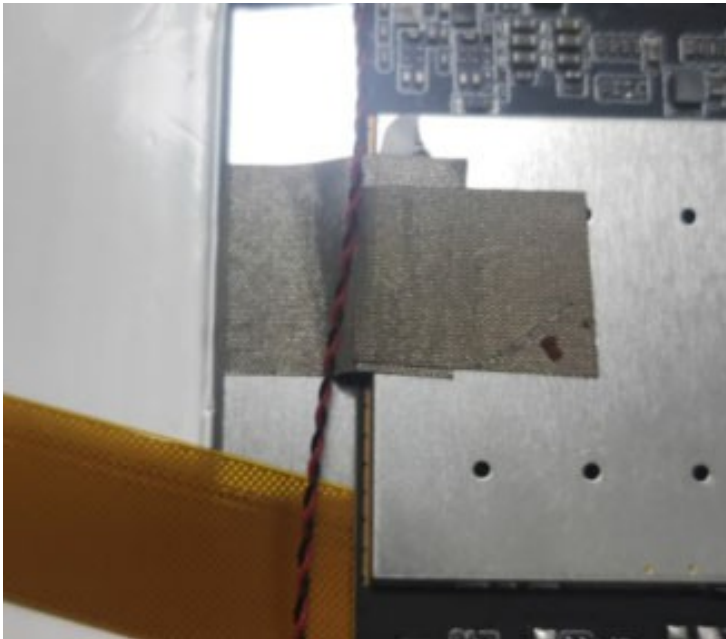
Antenna Apple Diagram

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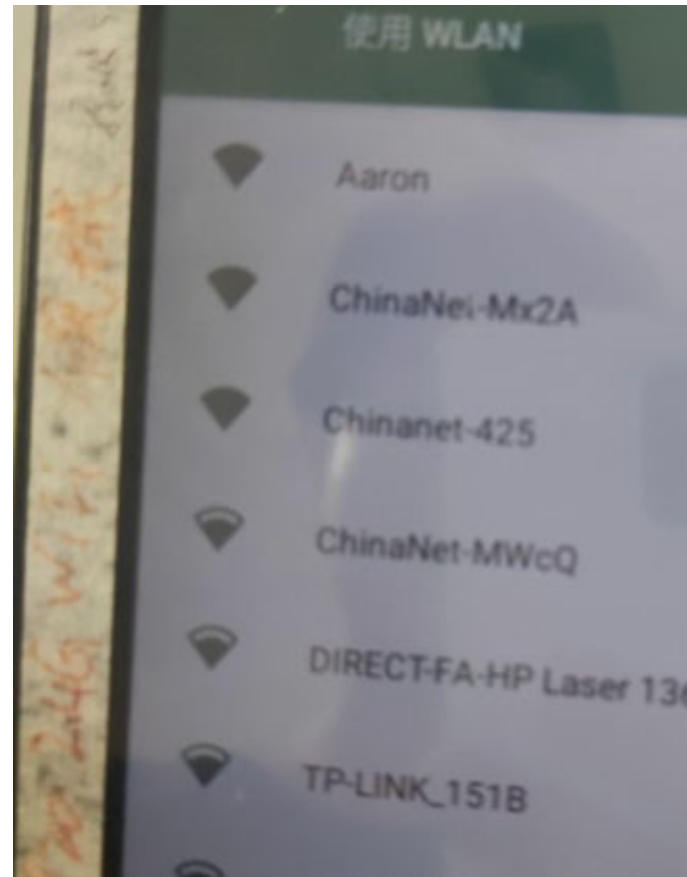
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Here to paste conductive cloth motherboard and screen grounding Antenna copper
leakage area with conductive cloth and screen grounding.



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WIFI actual test chart



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tip

Tip:

First, this data is only for the customer to provide the data generated by the prototype, does not represent the customer's final mass production state;

Second, please carefully confirm the report of the Division I, matching circuit modification and environmental processing instructions;

Third, before mass production, please cooperate with the provision of trial production prototype to our secondary verification; such as the replacement of materials, update software and environmental processing, please inform in advance;

Fourth, if the customer needs a third party to retest, or send customers to test, please go to our company to verify before sending the prototype; to prevent the machine and debugging machine have differences;

Fifth: I do not accept, we debug outside the machine data and miscellaneous implied test data, but can be referred to, except for the certification of the darkroom, such as data differences, everything to the debugging machine prevail to find the reason!

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Thank you!

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