



Shenzhen Jiexuntong Wireless Technology Co. LTD

Antenna acknowledgment

Customer name: Baoneng Daktron

Project model: DPXTH

Our company's material number: 20016000004

Antenna specification: Spring antenna

Date of issue: 2023-1-9

Manufacturer acknowledgment column:

Project preparation	RF	structure	approve	Date

Customer acknowledgement column:

confirm	audit	approve	Date



Acknowledgement of change of resume

version	Date	Change description	remarks
R/A	2023-1-9	First edition	



catalogue

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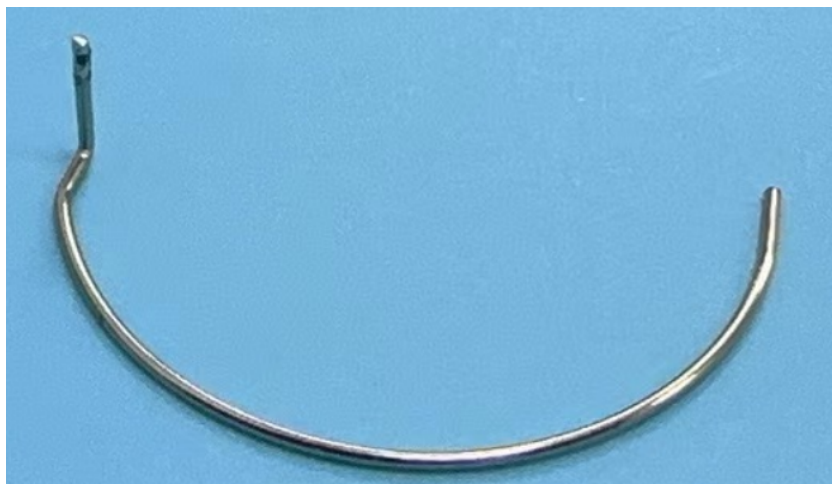
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一、Antenna picture



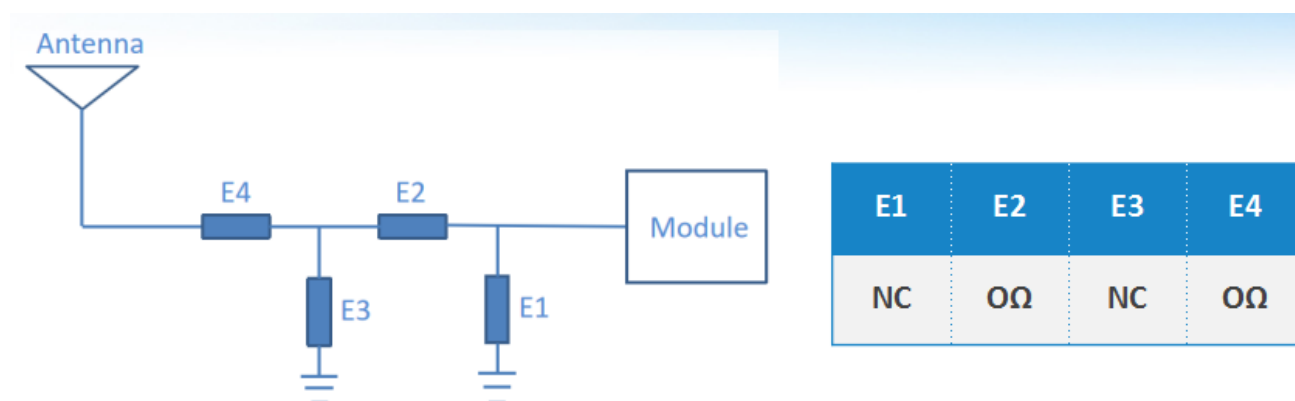
二、Test the environment

2.1.Environmental treatment

There is no

三、Antenna matching

3.1.Antenna

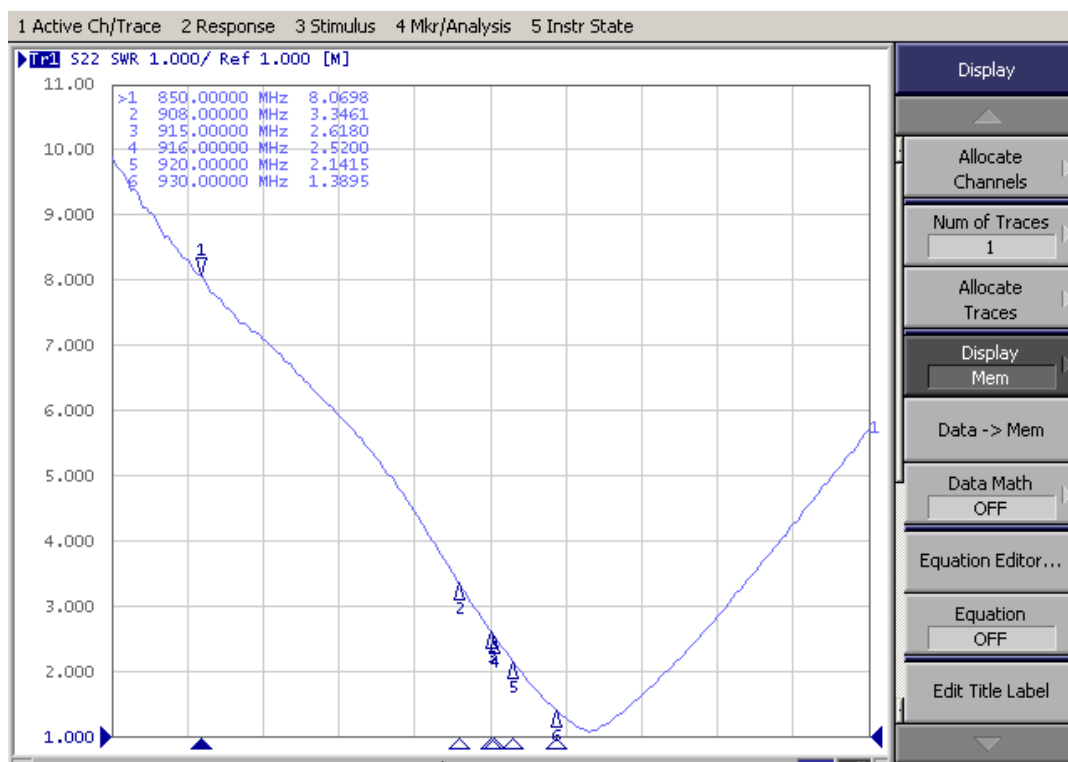


Our company has not changed the original antenna front-end matching

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四、Electrical performance report

VSWR



Frequency (MHz)	850	908	915	916	920	930
VSWR	8.06	3.34	2.61	2.52	2.14	1.38

Passive test data:

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
850	-7.03	-10.02	9.95
851	-6.96	-9.93	10.17
852	-6.88	-9.83	10.39
853	-6.76	-9.74	10.60
854	-6.67	-9.67	10.79
855	-6.59	-9.61	10.94
856	-6.50	-9.54	11.12
857	-6.43	-9.49	11.25
858	-6.37	-9.43	11.41
859	-6.28	-9.36	11.59
860	-6.21	-9.29	11.77

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Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
861	-6.16	-9.23	11.93
862	-6.08	-9.15	12.15
863	-6.02	-9.08	12.35
864	-5.96	-9.01	12.56
865	-5.93	-8.95	12.74
866	-5.86	-8.89	12.93
867	-5.82	-8.82	13.11
868	-5.76	-8.77	13.27
869	-5.73	-8.72	13.41
870	-5.67	-8.68	13.55
871	-5.66	-8.65	13.66
872	-5.61	-8.61	13.77
873	-5.60	-8.58	13.88
874	-5.56	-8.53	14.03
875	-5.56	-8.50	14.12
876	-5.53	-8.47	14.21
877	-5.51	-8.44	14.33
878	-5.49	-8.41	14.44
879	-5.48	-8.38	14.51
880	-5.46	-8.36	14.58
881	-5.45	-8.35	14.63
882	-5.44	-8.33	14.68
883	-5.44	-8.33	14.70
884	-5.45	-8.34	14.67
885	-5.47	-8.34	14.64
886	-5.47	-8.35	14.64
887	-5.50	-8.35	14.62
888	-5.50	-8.37	14.57
889	-5.51	-8.36	14.60
890	-5.50	-8.36	14.60
891	-5.49	-8.33	14.67
892	-5.45	-8.31	14.75
893	-5.44	-8.29	14.84
894	-5.40	-8.26	14.93
895	-5.39	-8.24	14.99
896	-5.37	-8.24	15.01
897	-5.37	-8.23	15.05
898	-5.34	-8.22	15.08
899	-5.35	-8.22	15.07
900	-5.34	-8.22	15.05
901	-5.33	-8.21	15.09
902	-5.30	-8.18	15.20

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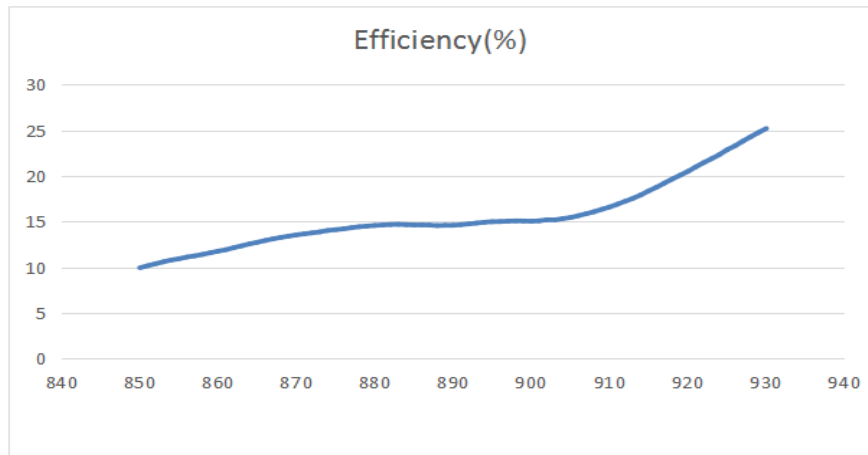
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Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
903	-5.29	-8.18	15.20
904	-5.26	-8.14	15.33
905	-5.21	-8.11	15.45
906	-5.17	-8.05	15.65
907	-5.09	-8.00	15.86
908	-5.01	-7.94	16.08
909	-4.94	-7.86	16.35
910	-4.82	-7.80	16.60
911	-4.75	-7.72	16.91
912	-4.60	-7.64	17.23
913	-4.53	-7.55	17.56
914	-4.37	-7.47	17.93
915	-4.27	-7.36	18.37
916	-4.12	-7.27	18.77
917	-4.03	-7.16	19.22
918	-3.89	-7.06	19.66
919	-3.81	-6.97	20.08
920	-3.70	-6.88	20.50
921	-3.60	-6.78	20.99
922	-3.49	-6.69	21.45
923	-3.40	-6.60	21.88
924	-3.30	-6.51	22.33
925	-3.19	-6.41	22.86
926	-3.12	-6.33	23.29
927	-3.00	-6.23	23.80
928	-2.93	-6.15	24.28
929	-2.84	-6.06	24.75
930	-2.80	-5.99	25.19

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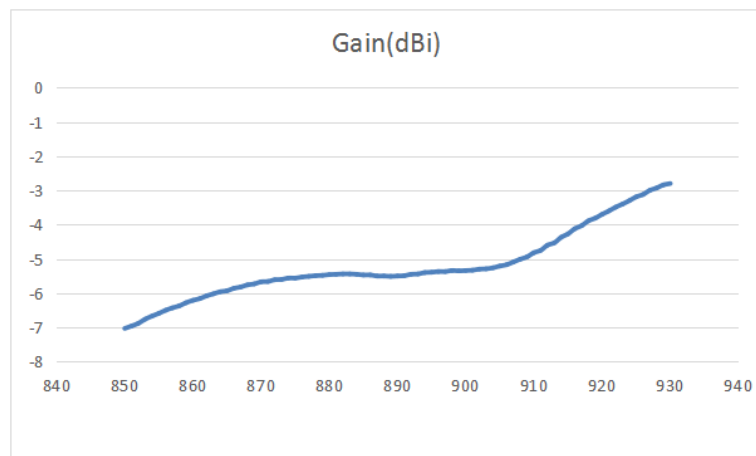


Efficiency line graph:



Frequency (MHz)	850	908	915	916	920	930
Efficiency	9.95	16.08	18.37	18.77	20.5	25.19

Gain line graph:

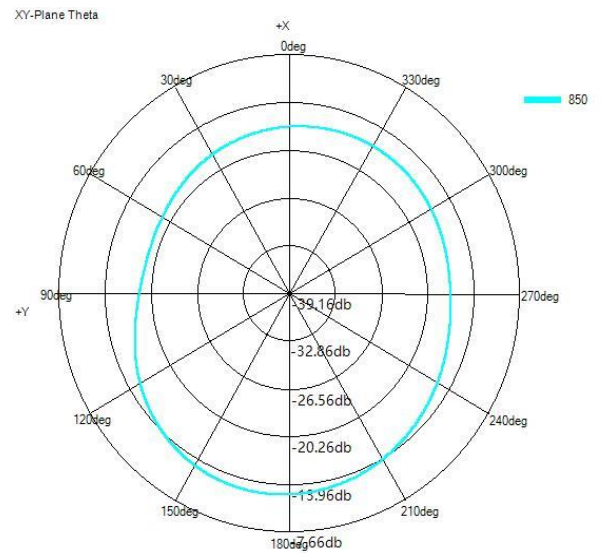
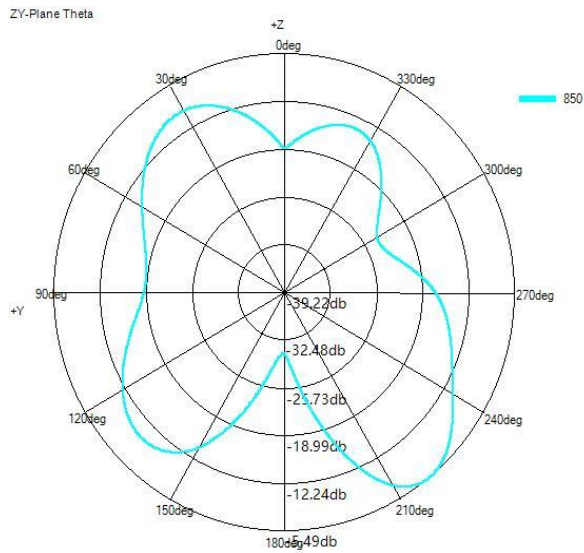
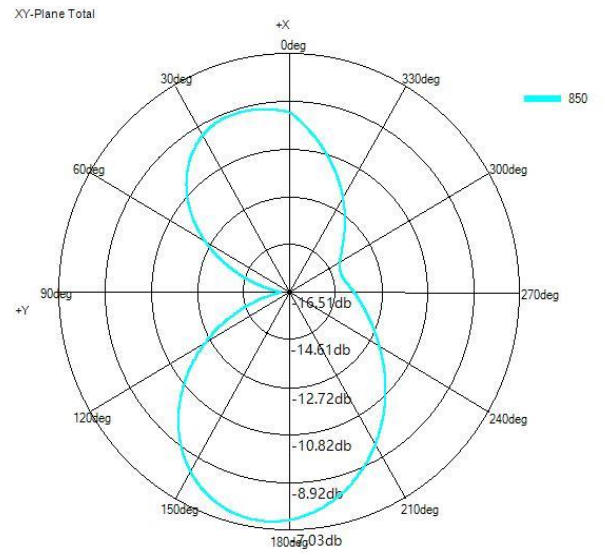
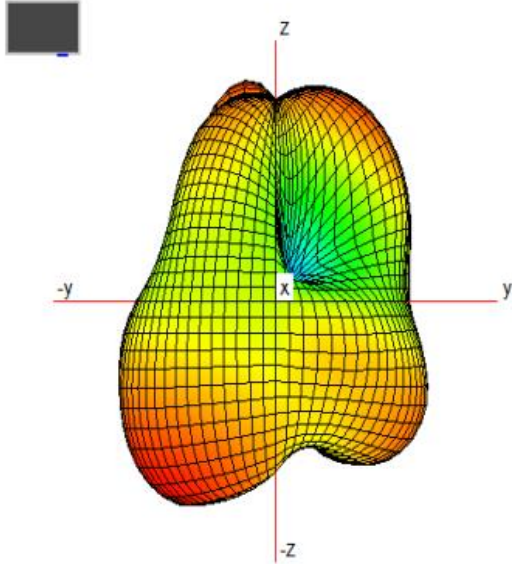


Frequency (MHz)	850	908	915	916	920	930
Gain(dbi)	-7.03	-5.01	-4.27	-4.12	-3.7	-2.8

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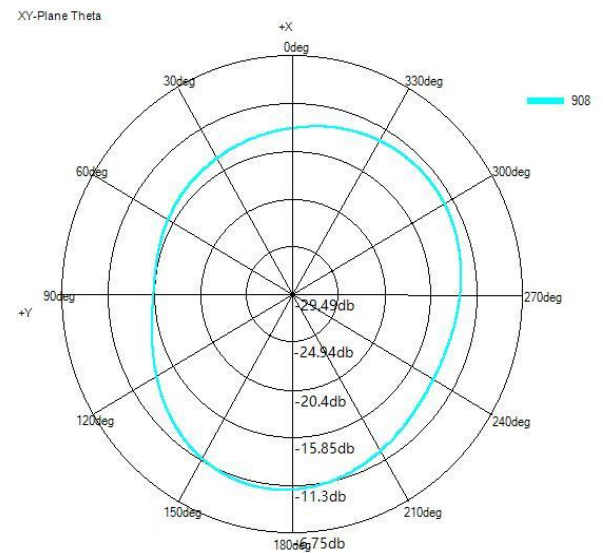
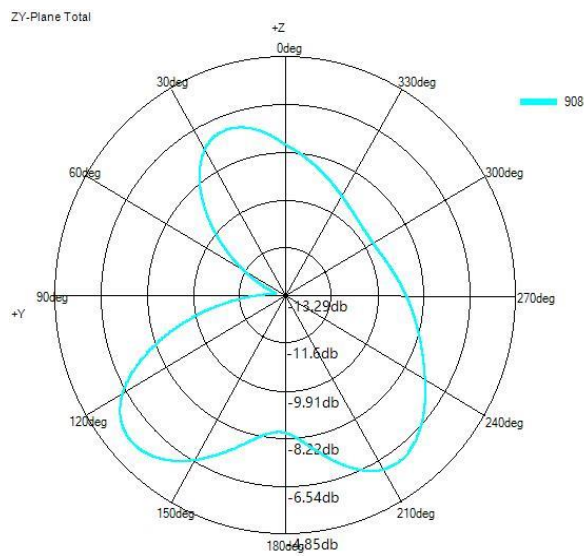
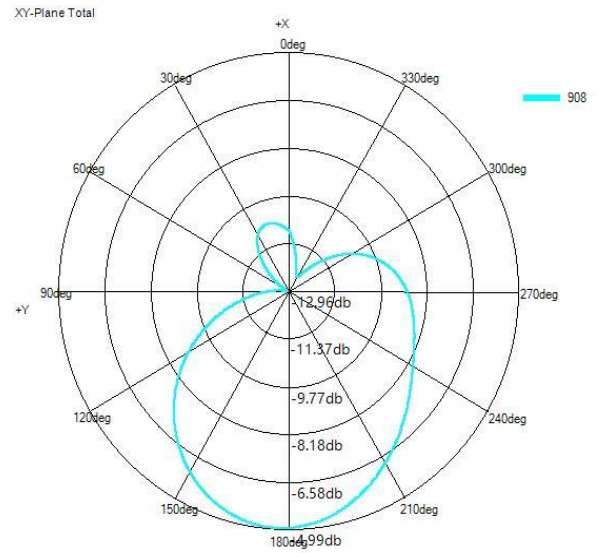
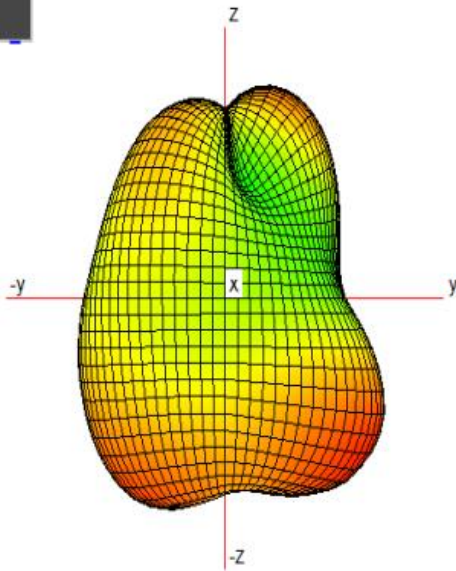
Field pattern diagram:

850MHZ



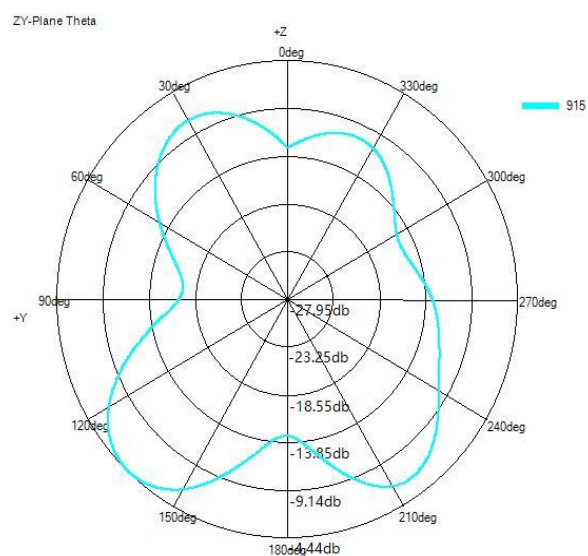
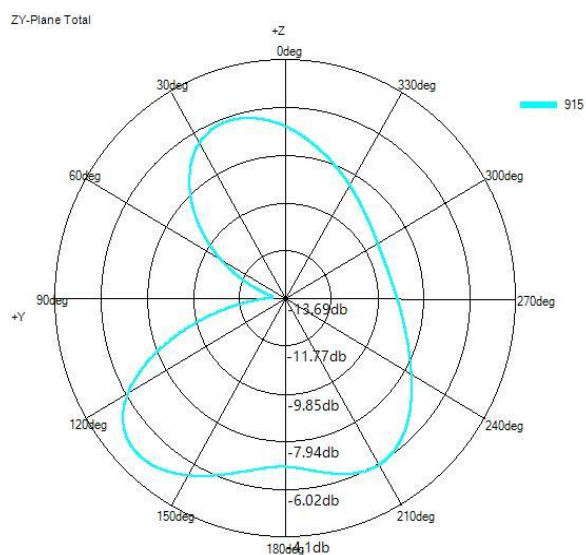
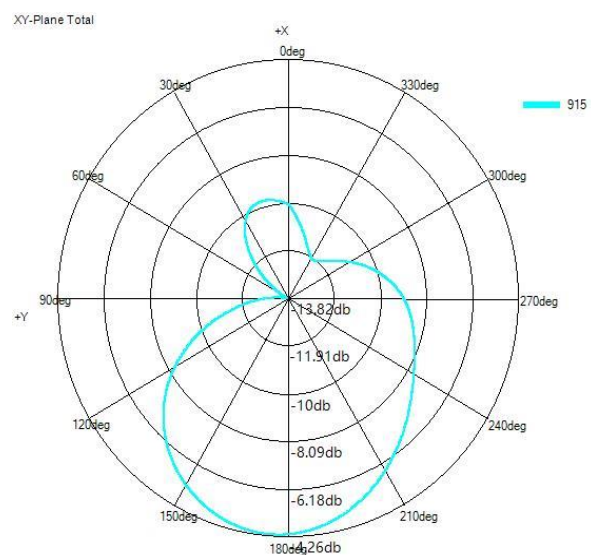
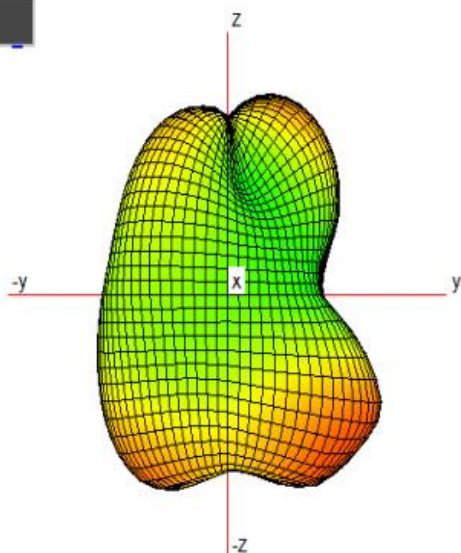
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908MHZ



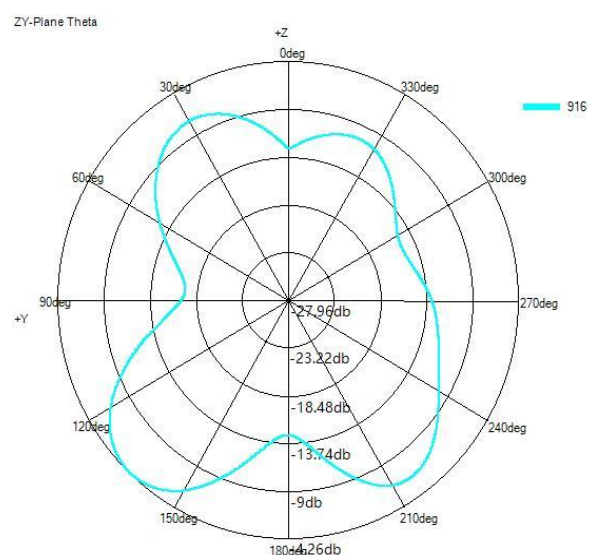
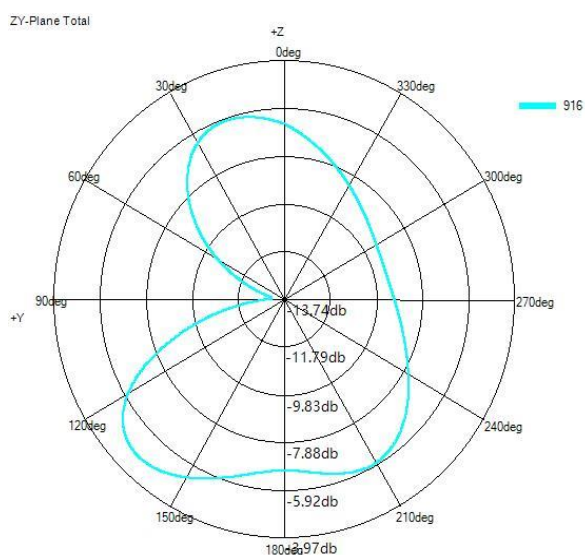
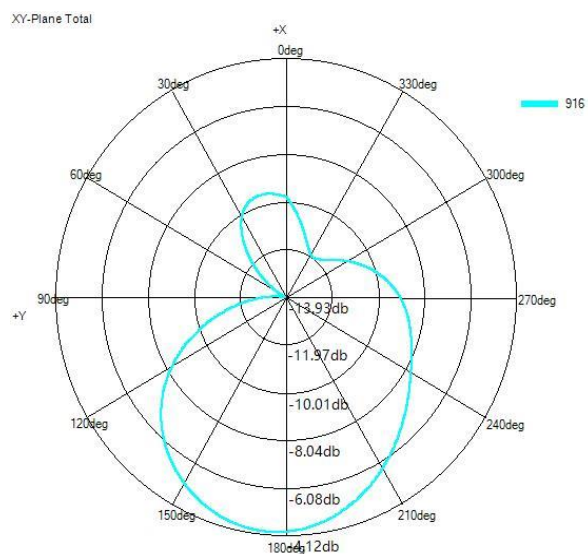
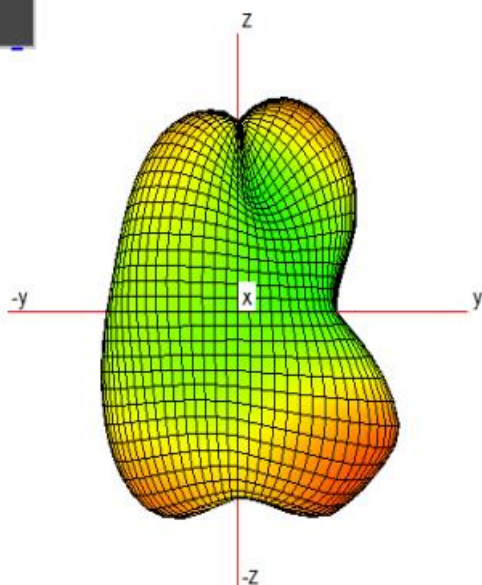
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915MHZ



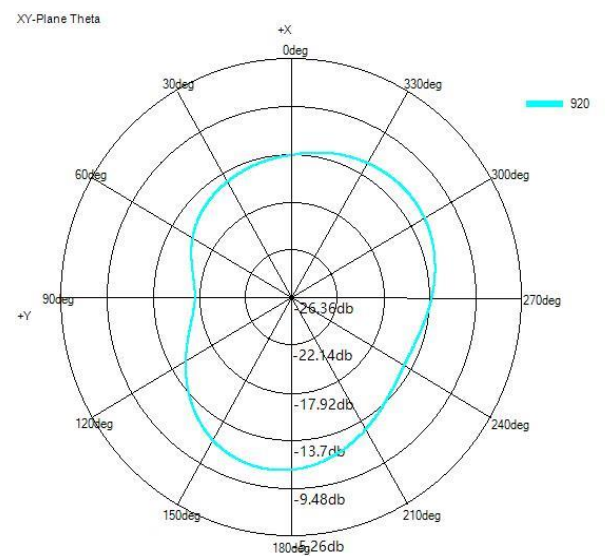
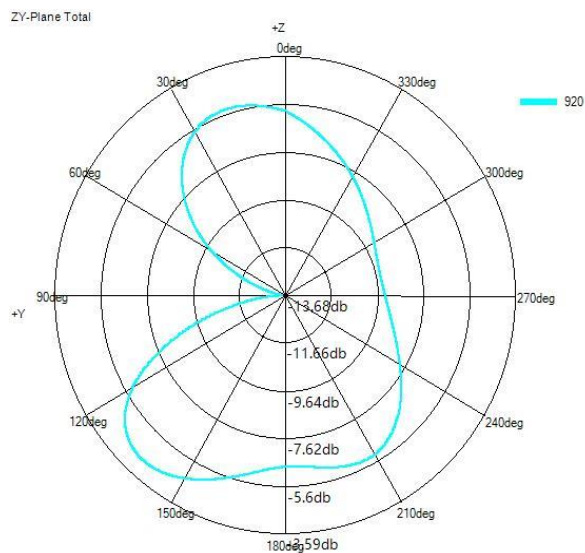
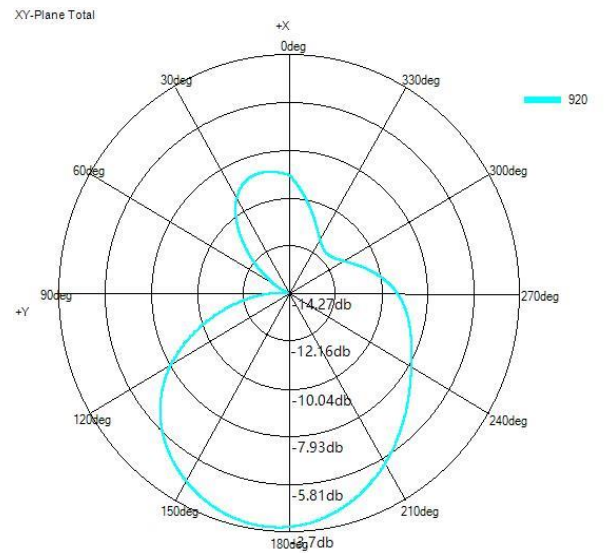
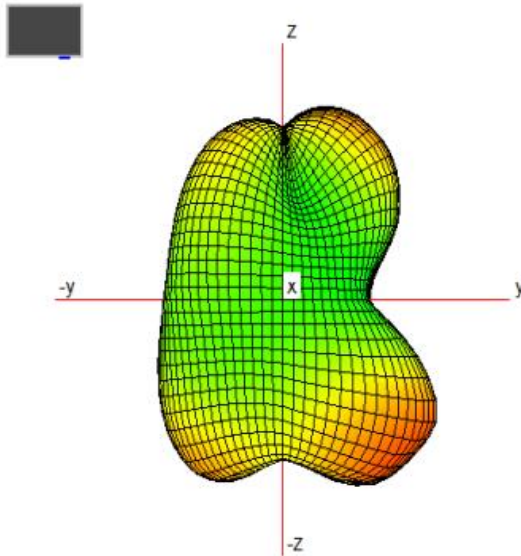
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916MHZ



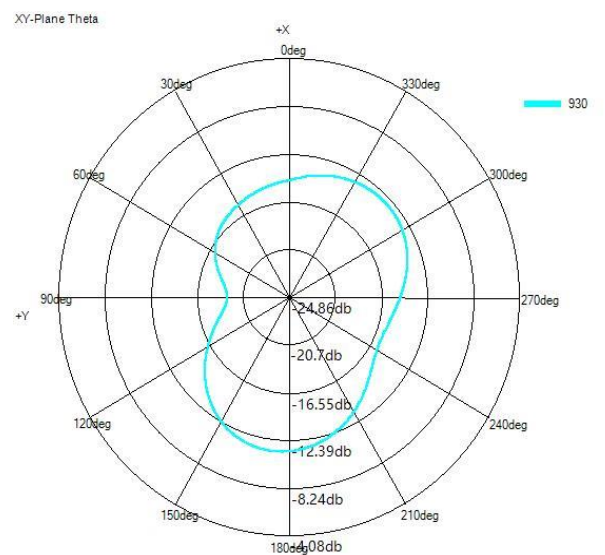
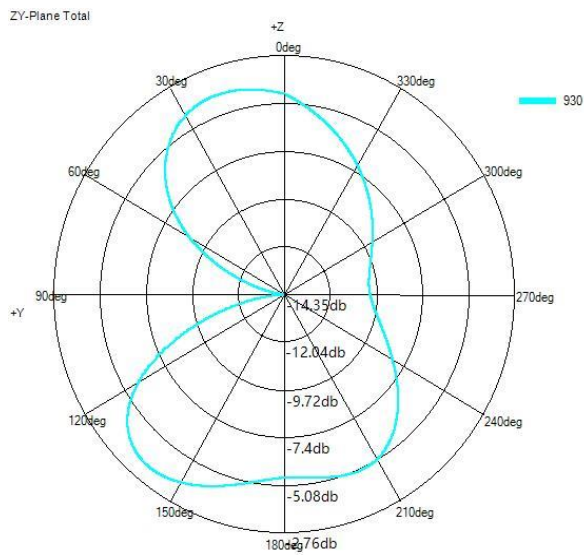
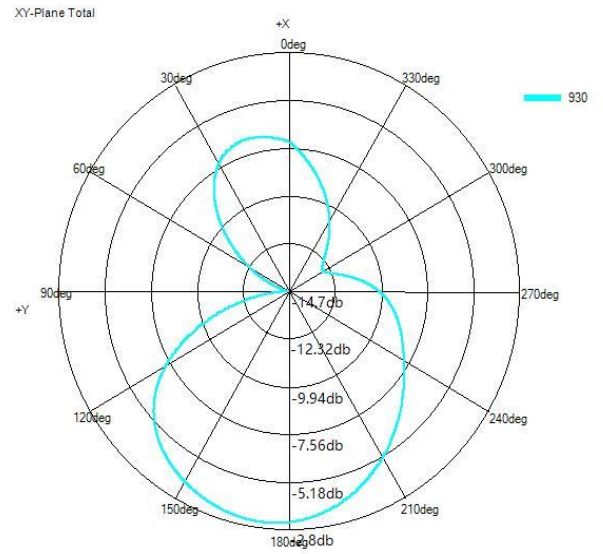
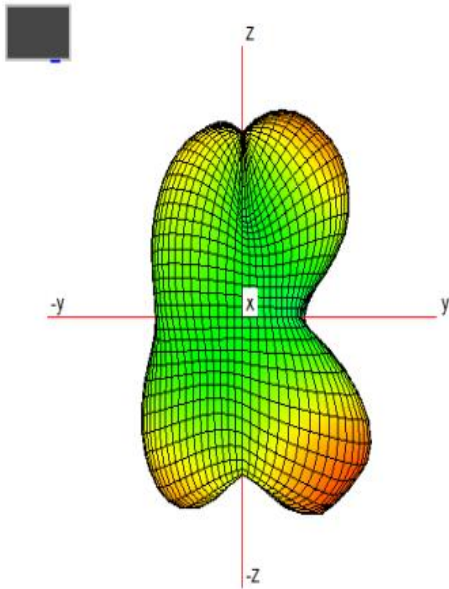
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920MHZ



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930MHZ



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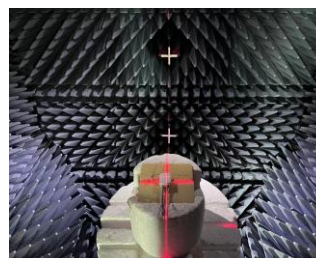
五、Reliability test report

5.1.Salt spray test report

Guest house	Baoneng Daktron	Part name	DPXTH	Date of completion	2022.12.27
Test item	Test requirement			Measured result	evaluation
Neutral salt spray test	Experimental process: Neutral salt spray test was carried out on the hardware on the antenna. In the closed environment of $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$, humidity $> 85\%$, PH value within the range of 6.5-7.2, $5\% \pm 1\%$ NaCl solution was used. After continuous 24h brine spray, the surface of the product should be free from corrosion, discoloration, and coating peeling.			After the end of the experiment, the surface of the product has no rust, no discoloration, and the coating has no peeling.	PASS
Experiment: Wang Ming			Approved by: Wang Ming		

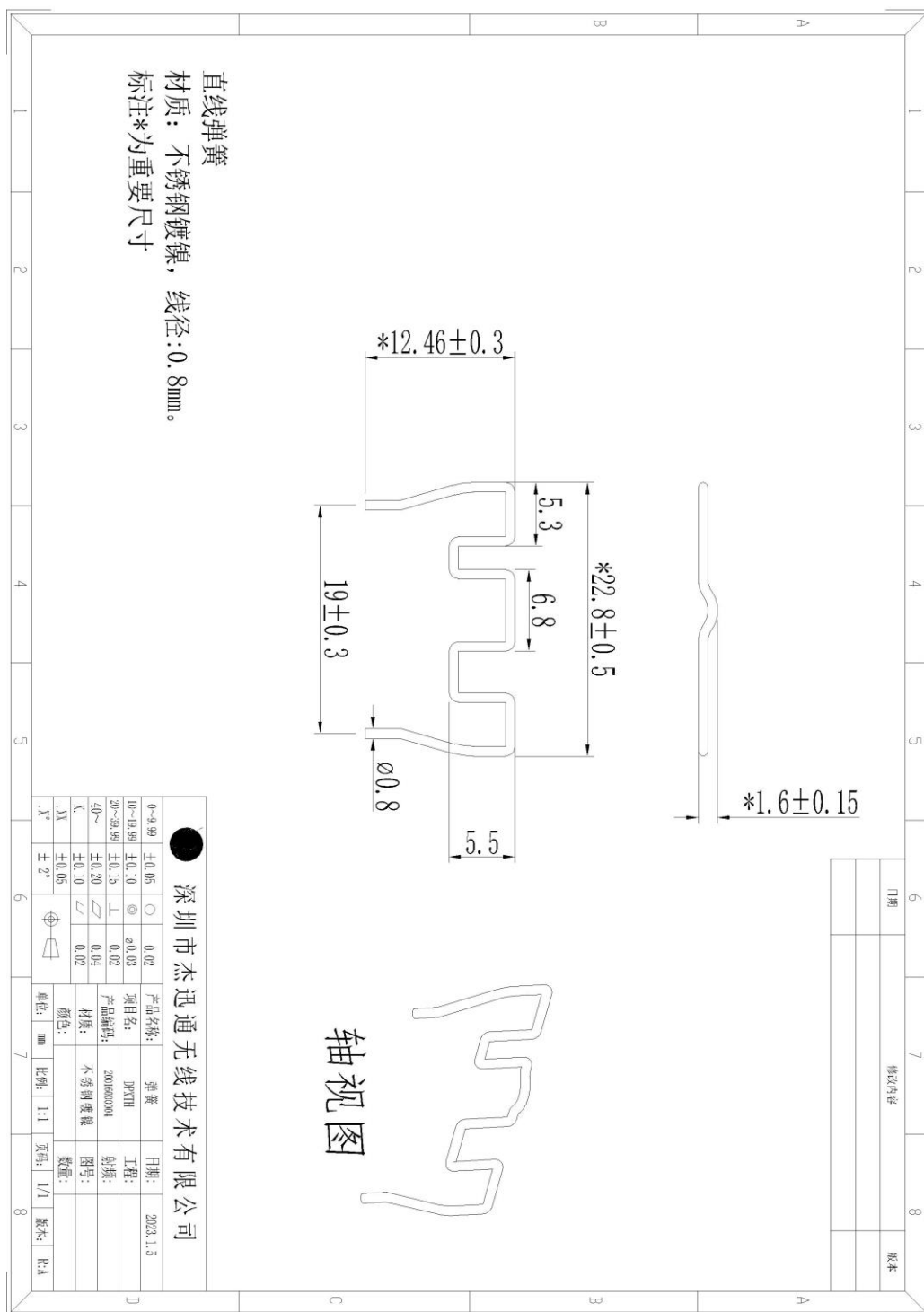


Antenna testing instrument



Darkroom test environment

六. Engineering drawing



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