

Shenzhen Jiexuntong Wireless Technology Co. LTD

Antenna acknowledgment

Customer name: Baoneng Daktron

Project model: DPXTH

Our company's material number: 20016000006

Antenna specification: On-board antenna

Date of issue: 2023-1-11

Manufacturer acknowledgment column:

Project preparation	RF	structure	approve	Date

Customer acknowledgement column:

confirm	audit	approve	Date

catalogue

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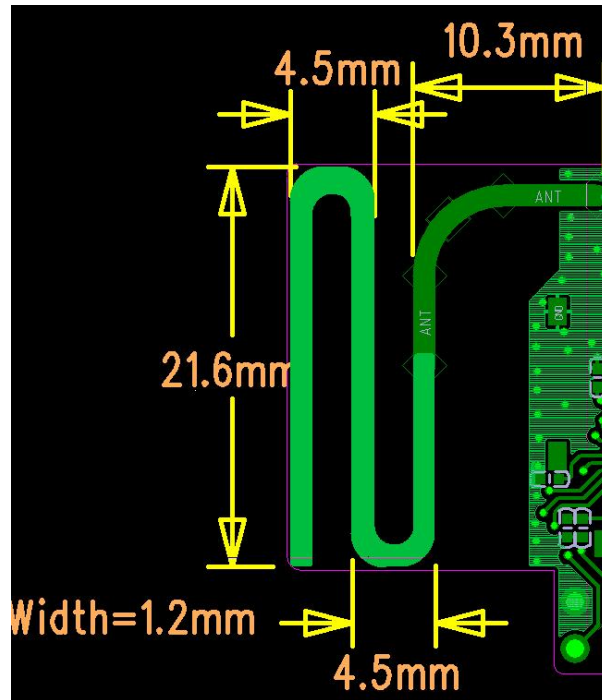
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一、Antenna picture and size



二、Test the environment

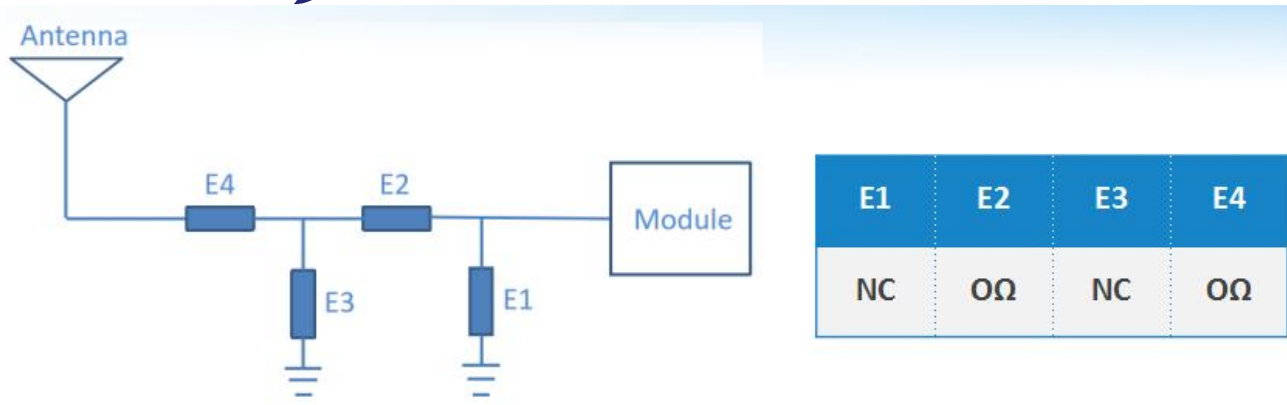
2.1.Environmental treatment

There is no

三、Antenna matching

3.1.Antenna

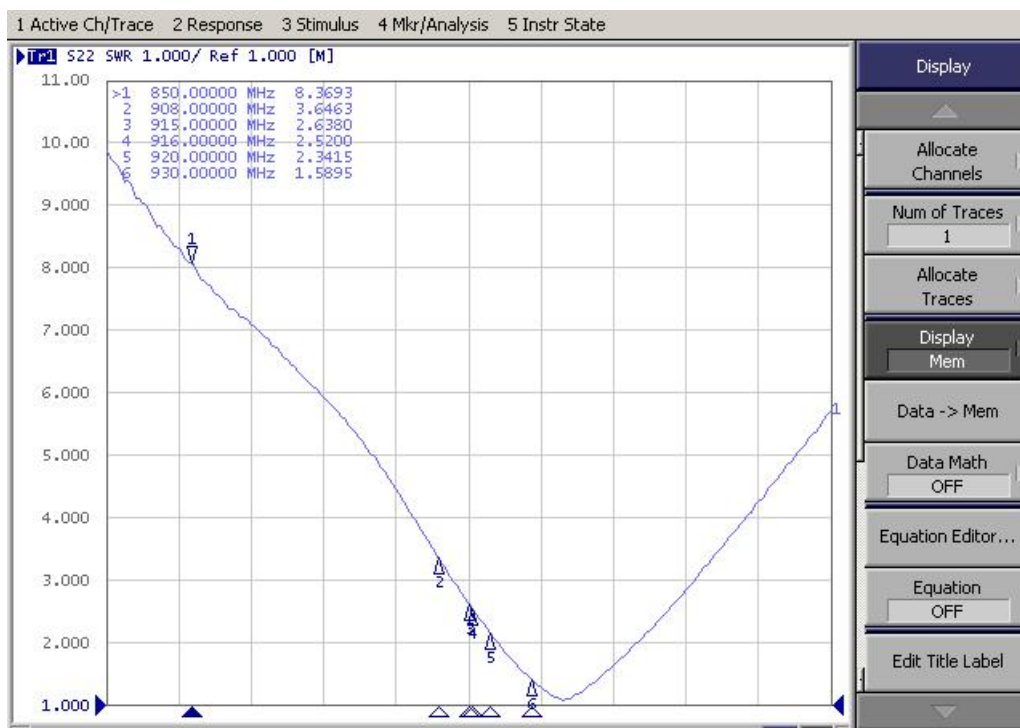
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Our company has not changed the original antenna front-end matching

四、Electrical performance report

VSWR



Frequency (MHz)	850	908	915	916	920	930
VSWR	8.36	3.44	2.63	2.52	2.34	1.58

Passive test data:

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Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
850	-7.23	-10.52	9.61
851	-7.16	-10.43	10.07
852	-7.08	-10.33	10.19
853	-7.01	-10.24	10.30
854	-6.96	-10.07	10.59
855	-6.89	-9.91	10.74
856	-6.81	-9.84	10.92
857	-6.75	-9.59	11.25
858	-6.67	-9.43	11.31
859	-6.58	-9.35	11.49
860	-6.51	-9.24	11.57
Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
861	-6.44	-9.23	11.63
862	-6.38	-9.14	12.15
863	-6.33	-9.11	12.25
864	-6.27	-9.03	12.36
865	-6.32	-8.98	12.54
866	-6.26	-8.93	12.73
867	-6.18	-8.87	12.91
868	-6.13	-8.84	13.17
869	-6.07	-8.80	13.21
870	-5.98	-8.75	13.35
871	-5.93	-8.66	13.46
872	-5.92	-8.64	13.57
873	-5.91	-8.57	13.68
874	-5.89	-8.52	13.83
875	-5.88	-8.51	13.99
876	-5.87	-8.46	14.11
877	-5.86	-8.44	14.23
878	-5.84	-8.42	14.34
879	-5.81	-8.39	14.41
880	-5.78	-8.37	14.50
881	-5.76	-8.35	14.59
882	-5.76	-8.33	14.68
883	-5.74	-8.33	14.70
884	-5.71	-8.33	14.67
885	-5.70	-8.34	14.65
886	-5.69	-8.34	14.64
887	-5.67	-8.34	14.61
888	-5.66	-8.36	14.56
889	-5.64	-8.36	14.64

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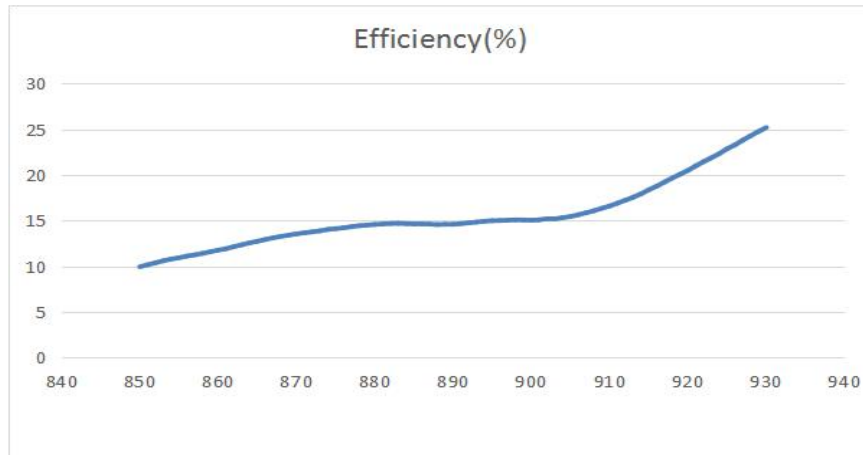
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	890	-5.63	-8.37	14.61
	891	-5.61	-8.33	14.62
	892	-5.59	-8.31	14.75
	893	-5.57	-8.28	14.84
	894	-5.55	-8.25	14.93
	895	-5.53	-8.23	14.99
	896	-5.52	-8.24	15.01
	897	-5.50	-8.23	15.05
	898	-5.49	-8.23	15.08
	899	-5.47	-8.22	15.05
	900	-5.46	-8.21	15.06
	901	-5.45	-8.21	15.09
	902	-5.44	-8.18	15.20
Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	
	903	-5.43	-8.17	15.15
	904	-5.41	-8.14	15.23
	905	-5.39	-8.10	15.35
	906	-5.38	-8.08	15.45
	907	-5.36	-8.03	15.56
	908	-5.35	-7.97	15.68
	909	-5.04	-7.86	15.75
	910	-5.01	-7.81	15.84
	911	-4.99	-7.71	15.91
	912	-4.96	-7.61	16.13
	913	-4.95	-7.55	16.26
	914	-4.93	-7.43	16.33
	915	-4.92	-7.36	17.57
	916	-4.89	-7.27	17.77
	917	-4.82	-7.16	18.22
	918	-4.71	-7.06	19.16
	919	-4.66	-6.97	20.08
	920	-3.80	-6.88	20.30
	921	-3.60	-6.78	20.69
	922	-3.49	-6.69	21.05
	923	-3.40	-6.60	21.38
	924	-3.30	-6.51	22.13
	925	-3.19	-6.41	22.56
	926	-3.12	-6.33	22.89
	927	-3.00	-6.23	23.30
	928	-2.93	-6.15	23.88
	929	-2.84	-6.06	24.05
	930	-2.75	-5.99	24.19

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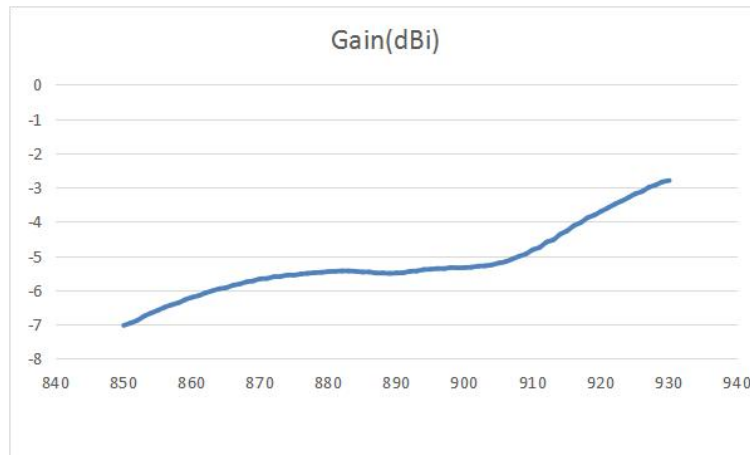


Efficiency line graph:



Frequency (MHz)	850	908	915	916	920	930
Efficiency	9.61	15.68	17.57	17.77	20.3	24.19

Gain line graph:

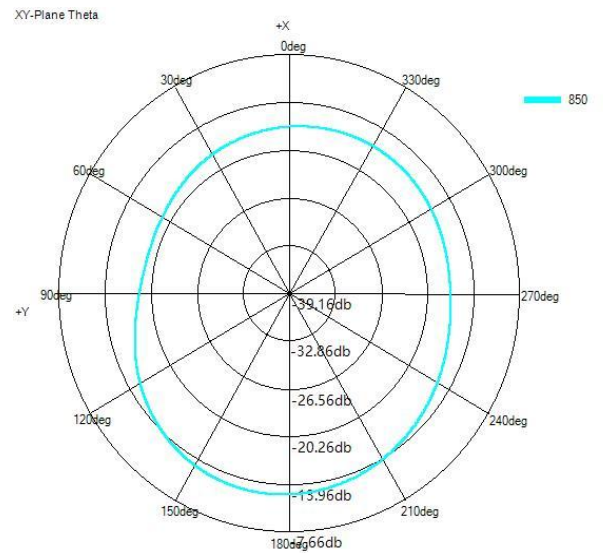
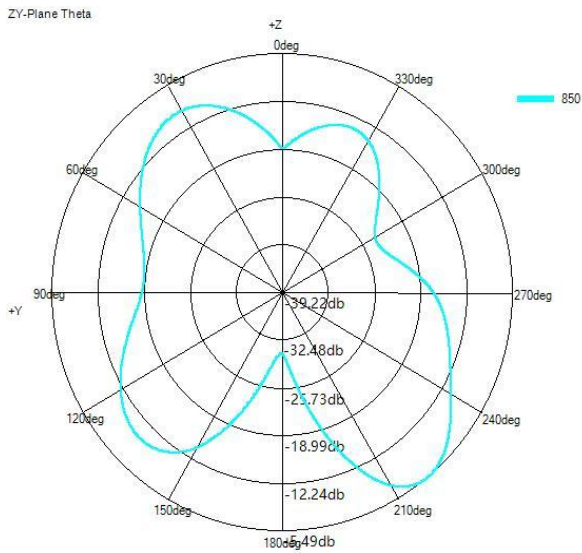
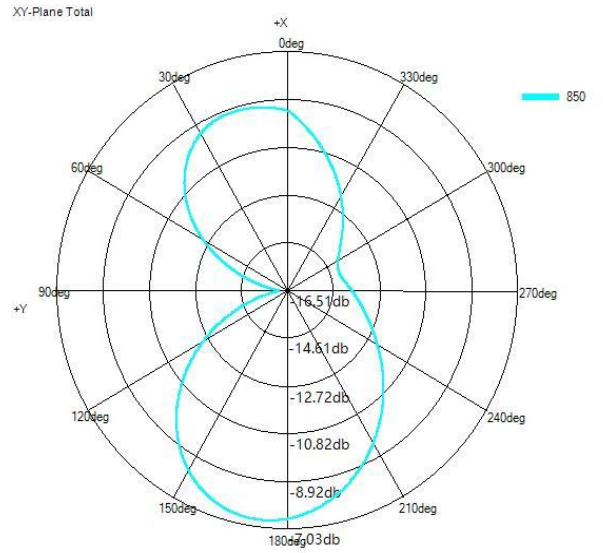
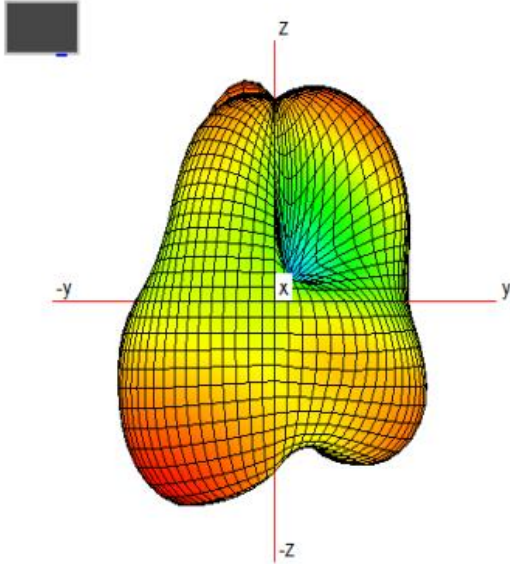


Frequency (MHz)	850	908	915	916	920	930
Gain(dbi)	-7.55	-5.35	-4.92	-4.12	-3.80	-2.75

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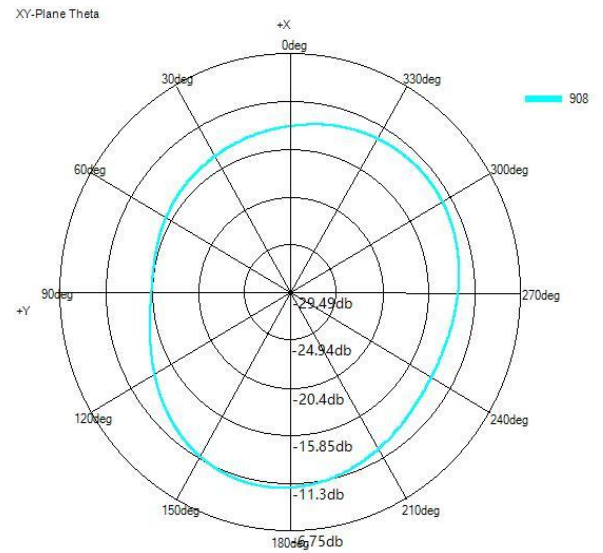
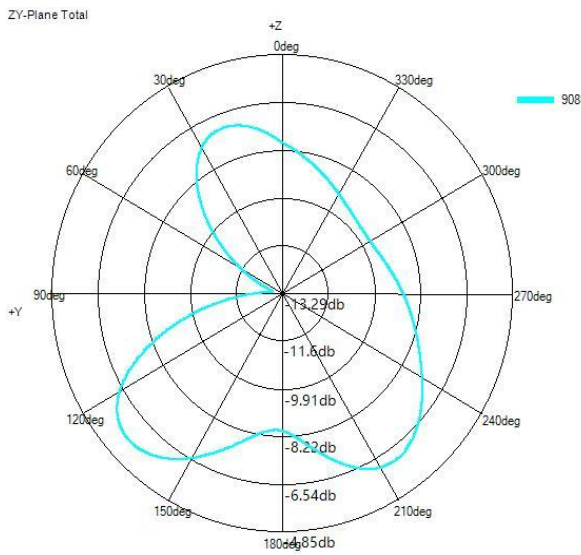
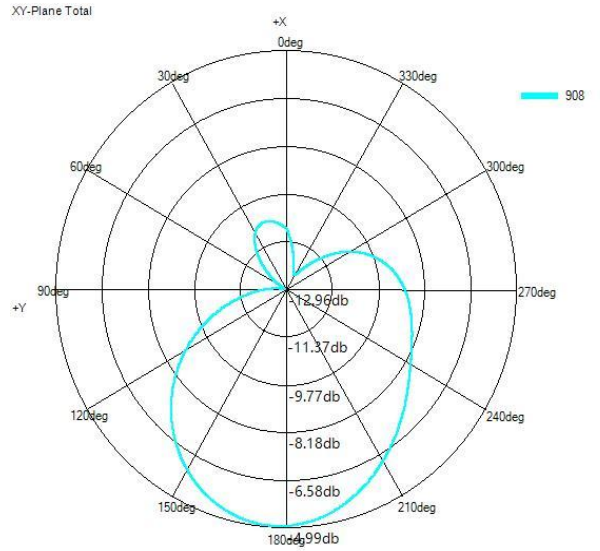
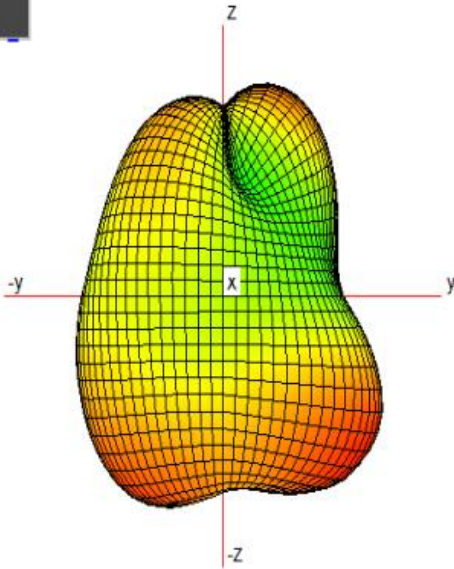
Field pattern diagram:

850MHZ



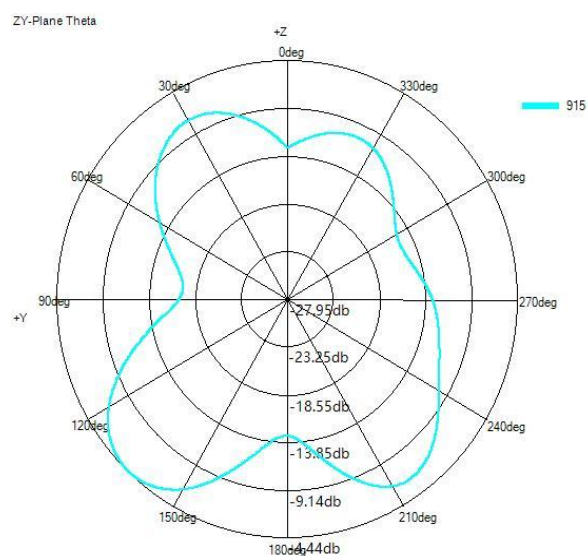
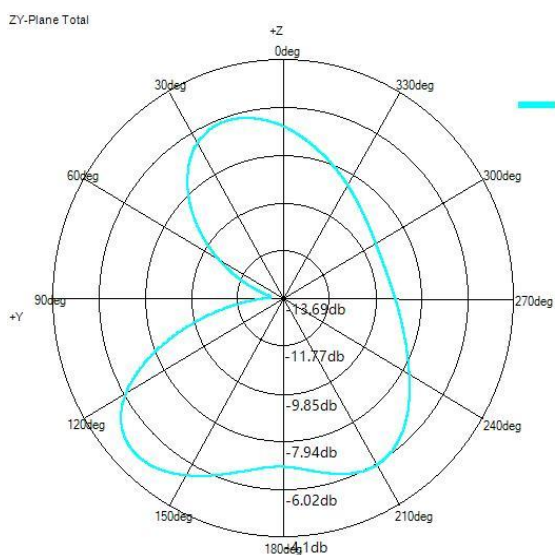
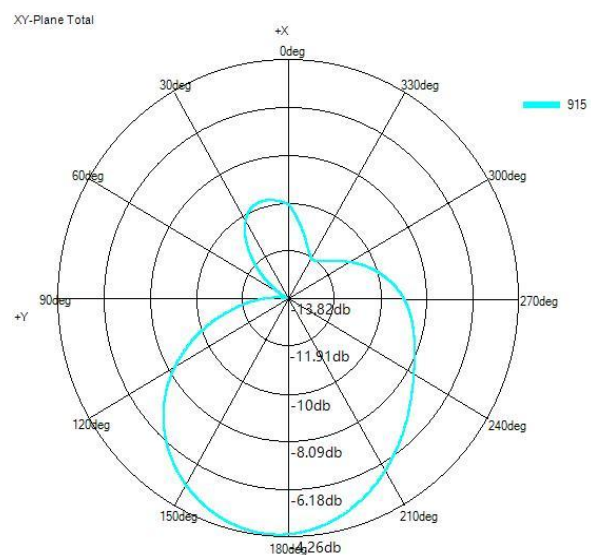
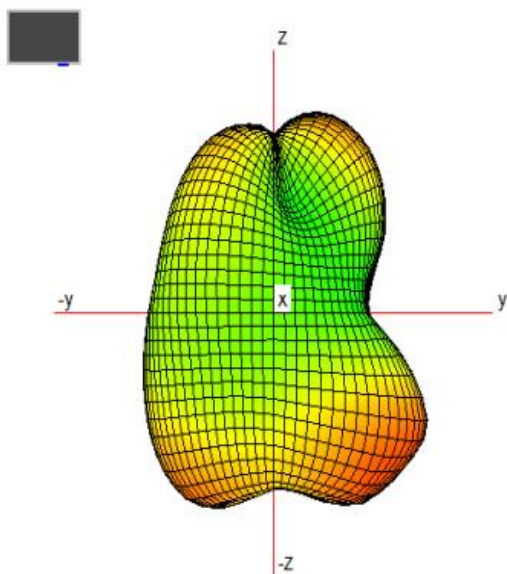
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908MHZ



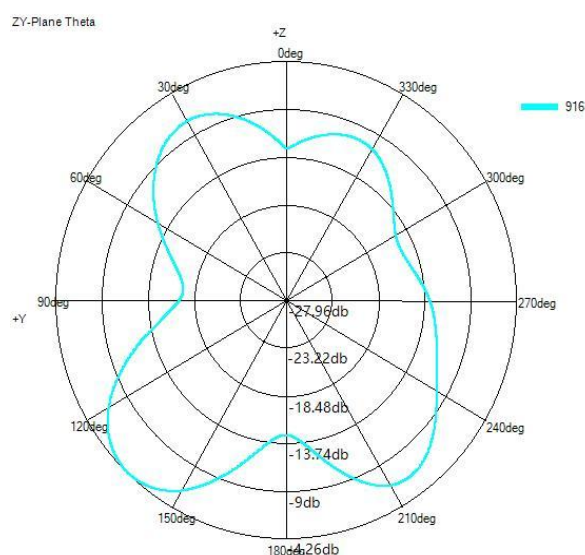
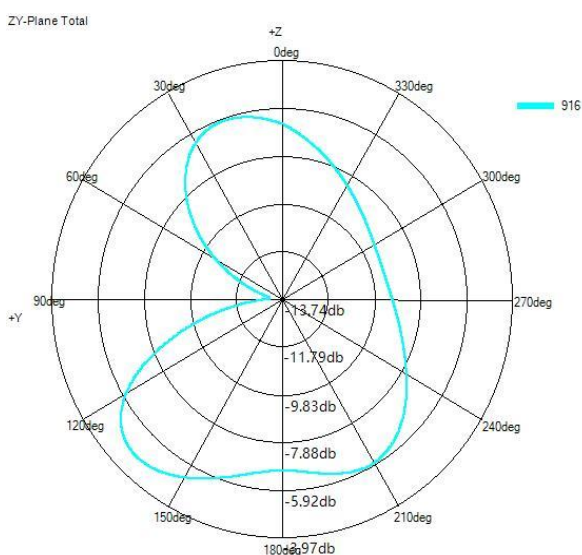
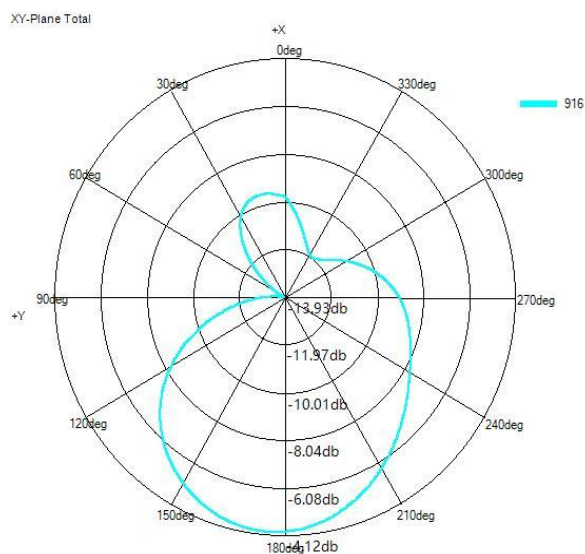
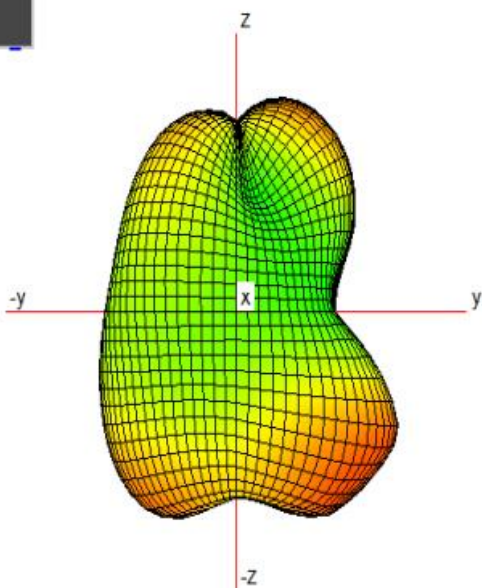
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915MHZ



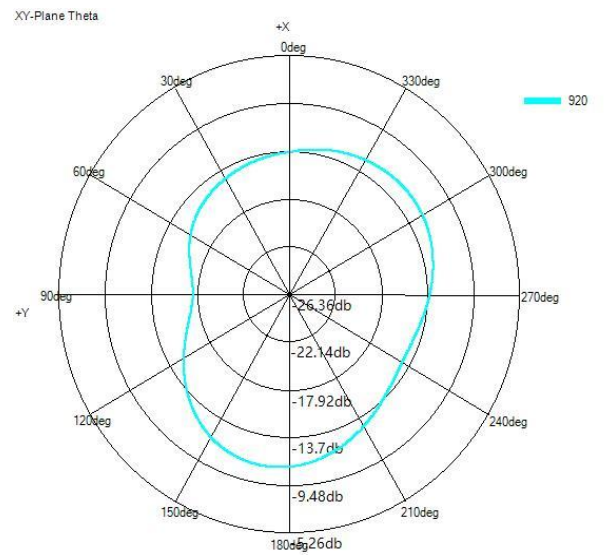
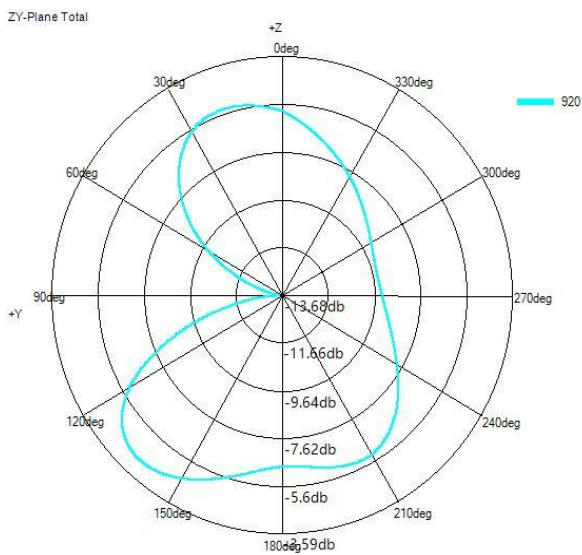
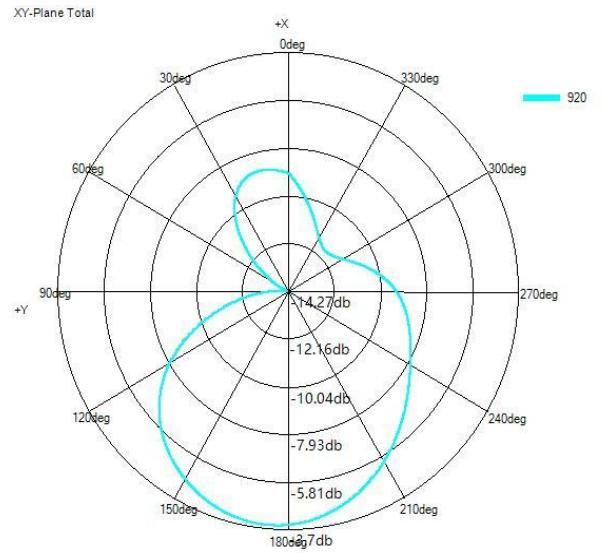
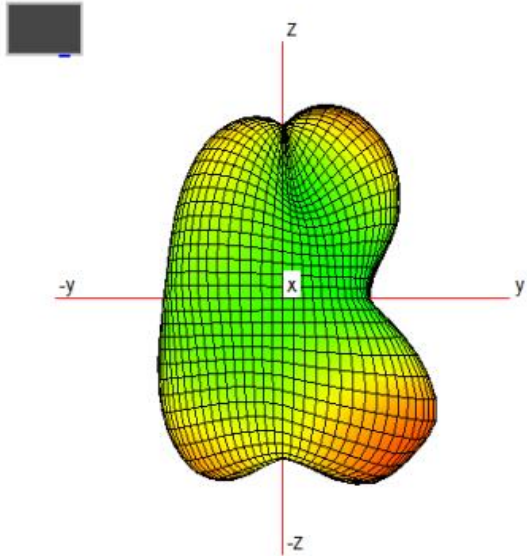
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916MHZ



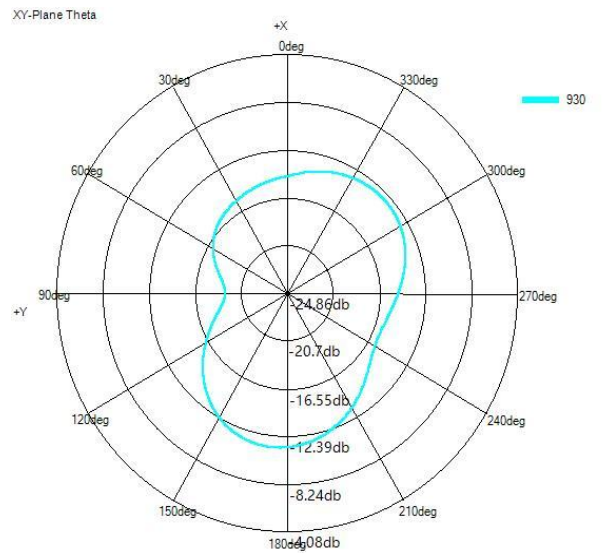
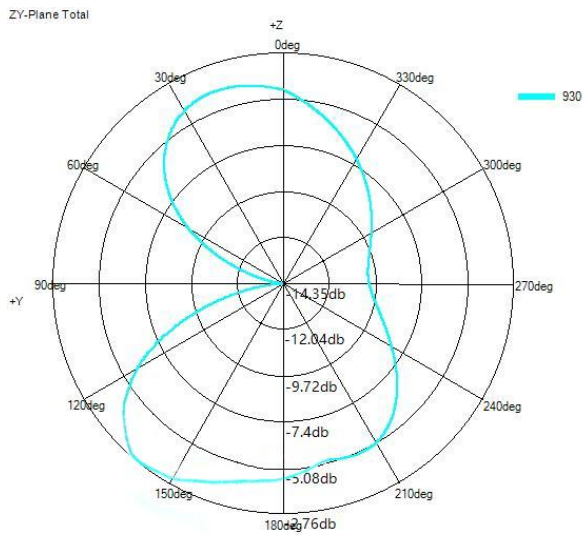
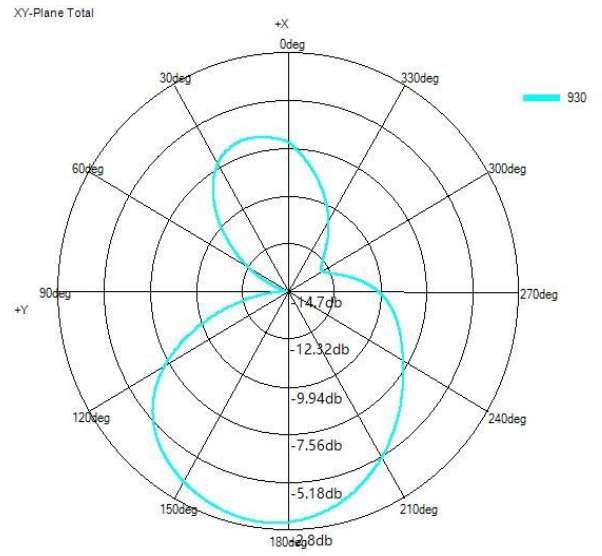
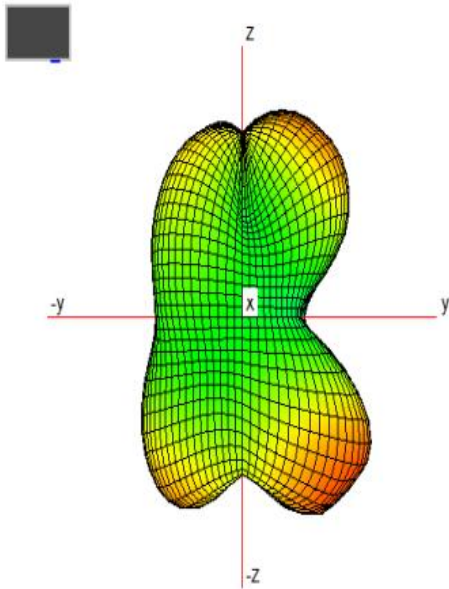
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920MHZ



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930MHZ



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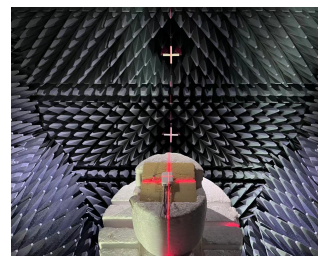
五、Reliability test report

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	<p>Experimental process: Neutral salt spray test was carried out on the hardware on the antenna. In the closed environment of $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, 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.</p>			<p>After the end of the experiment, the surface of the product has no rust, no discoloration, and the coating has no peeling.</p>	PASS
Experiment: Wang Ming			Approved by: Wang Ming		



Antenna testing instrument



Darkroom test environment