

Sample Recognition Letter

PROJECT NAME : UHF3025

BAISHUI LAI	ME	RF	QC
Signature	CHENLONG YANG	WANGPING	LIUJIADE
date	20241016	20241016	20241016
CUSTOMER	ME	MD	QC
Signature			
date			

1summary1-2

Project GB10	write: Wang ping	Name : GB10 Sample Recognition Letter
Date: 2024/10/16		
Edition	Examine and rify:	
A	Qinbilin	
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2Name and type of antenna..... 2-2

3Debug settings.....3

3.1 standing wave(VSWR) and Reccho reflection(Return Loss)

3.2 Efficiency and Gain make use of HP8753ES test in the ETS 5m×4m×4m 3D Chamber

3.3(Matching Circuit Description)

4 Effective Radiated Power Summation4

5assumptiondiagram.....5

1Summary

This report is mainly used to describe the 《Baishuilai Electronics》3025 Sample antenna

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recognition letter.

2 Name and type of antenna

MATERIALS	NAME	TYPE
UHF ANTENNA	UHF3025	Ceramic

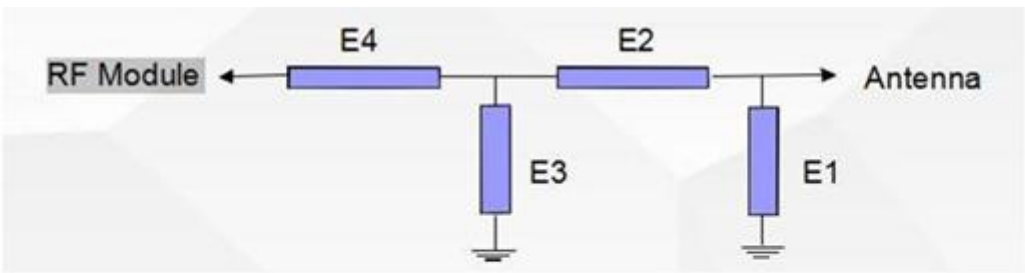
3Debug settings

3.1standing wave(VSWR)and echo reflection(Return Loss)

VSWR is using the HP 8753E connected to the terminal assembly to test, state for free space.

3.2 Efficiency and Gain Tested in the ETS 5m× 4 m× 3 m 3D Chamber using HP8753ES.

3.3Matching Circuit Description Match have no change



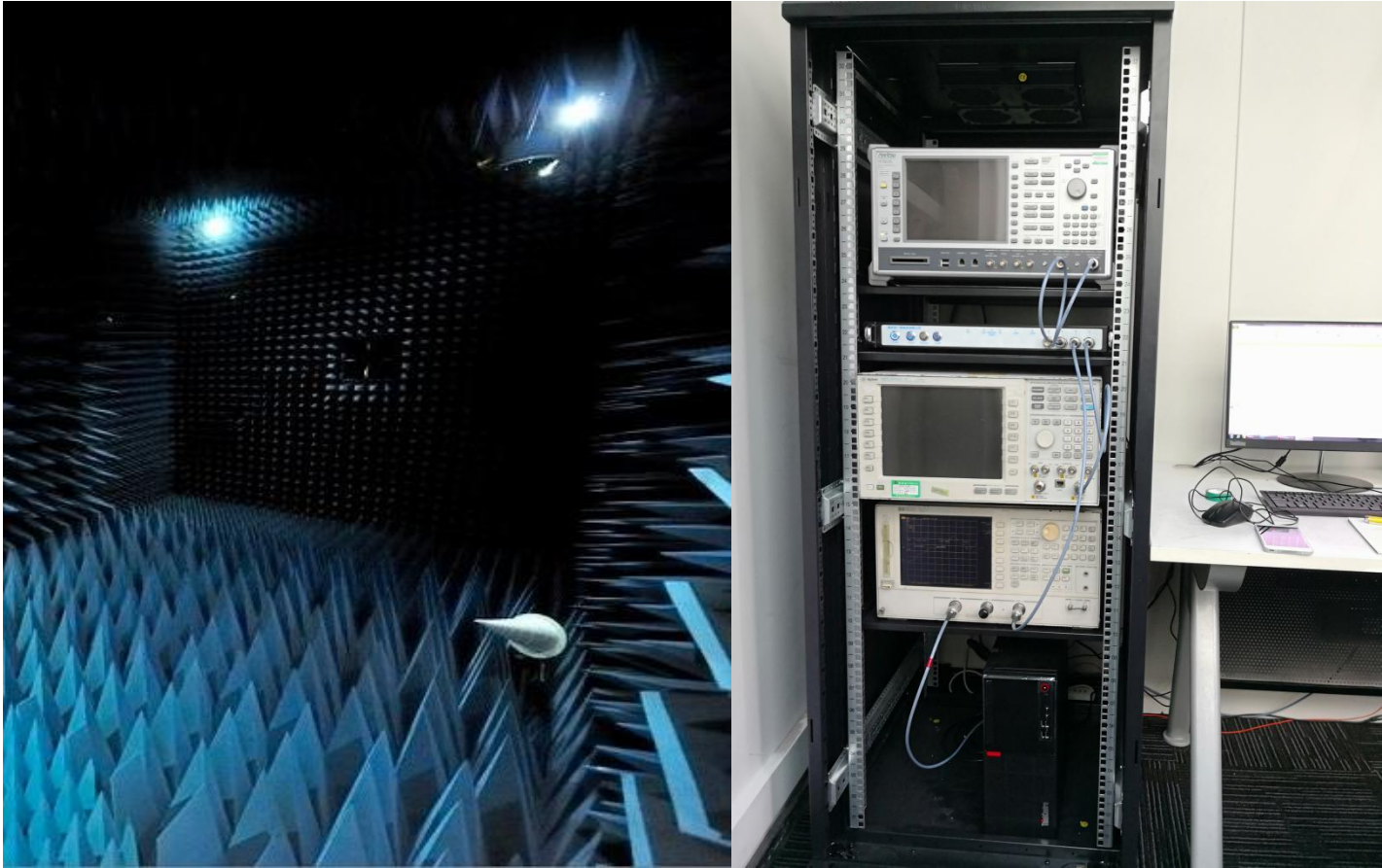
UHF		Element	Value	Press the motherboard original matching circuit is not modified
		E1(0201)		
		E2(0201)		
		E3(0201)		
		E4(0201)		

Test Environment:

Test system: ETS3D Microwave anechoic chamber

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Chamber environment: Temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$; Humidity $50\% \pm 15\%$
Testing Equipment: Agilent 8753ES



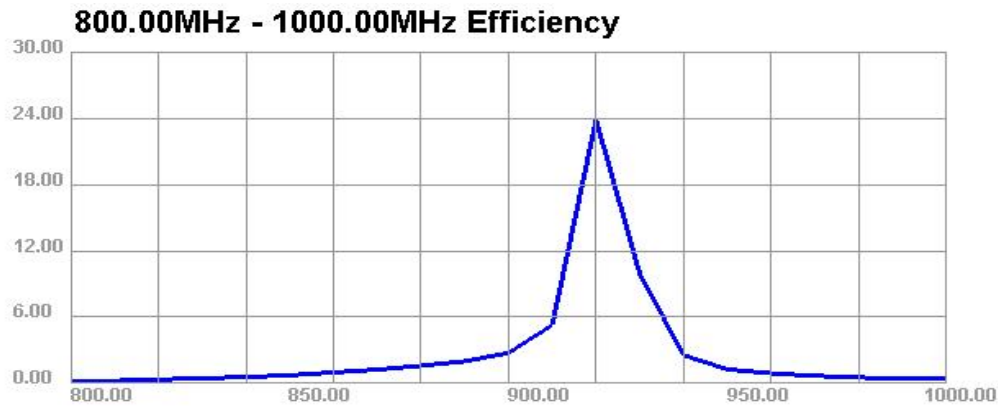
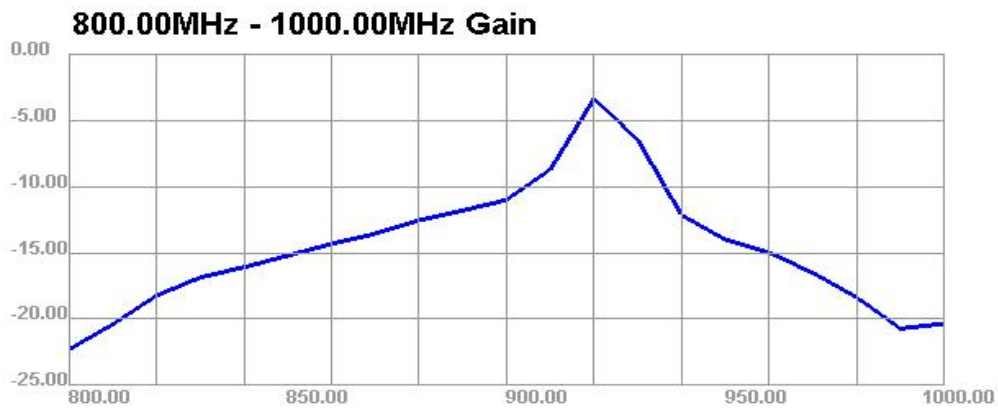
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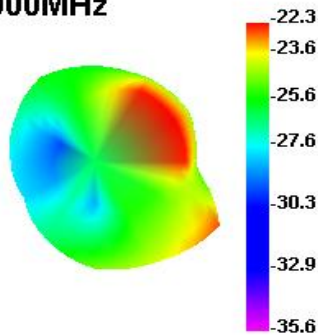
4 Effective Radiated Power And Isotopic Sensitivity Summation

Passive Test For D1										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenu Hor	Attenu Ver
800	0.16	-27.83	-22.29	-24.44	0.112	0.053	-22.29	-35.56	39.43	39.73
810	0.24	-26.14	-20.4	-22.55	0.169	0.075	-20.4	-35.39	39.53	39.91
820	0.36	-24.49	-18.23	-20.38	0.253	0.103	-18.23	-34.64	39.58	39.91
830	0.47	-23.32	-16.85	-19	0.338	0.127	-16.85	-33.46	39.7	40.02
840	0.58	-22.39	-16.08	-18.23	0.417	0.159	-16.08	-31.66	39.93	40.16
850	0.74	-21.3	-15.22	-17.37	0.528	0.213	-15.22	-28.95	40	40.21
860	0.99	-20.03	-14.31	-16.46	0.685	0.307	-14.31	-27.6	40.12	40.28
870	1.25	-19.03	-13.55	-15.7	0.831	0.419	-13.55	-26.22	40.39	40.5
880	1.6	-17.95	-12.55	-14.7	1.036	0.568	-12.55	-24.51	39.98	39.99
890	2	-16.98	-11.8	-13.95	1.268	0.734	-11.8	-23.67	40.1	40.16
900	2.76	-15.58	-11.01	-13.16	1.729	1.035	-11.01	-22.86	39.76	39.76
910	5.28	-12.77	-8.71	-10.86	3.236	2.044	-8.71	-18.6	39.39	39.33
920	23.87	-6.22	-3.37	-5.52	13.06	10.806	-3.37	-11.96	39.29	39.2
930	9.93	-10.03	-6.46	-8.61	6.285	3.645	-6.46	-31.65	38.97	38.98
940	2.55	-15.93	-12.16	-14.31	1.543	1.007	-12.16	-26.79	38.68	38.82
950	1.28	-18.94	-13.99	-16.14	0.779	0.497	-13.99	-30.7	39.25	39.4
960	0.92	-20.37	-14.99	-17.14	0.563	0.354	-14.99	-30.94	39.04	39.13
970	0.68	-21.65	-16.5	-18.65	0.416	0.268	-16.5	-32.12	39.56	39.56
980	0.54	-22.65	-18.35	-20.5	0.323	0.22	-18.35	-35.96	39.84	39.79
990	0.4	-23.99	-20.71	-22.86	0.235	0.164	-20.71	-33.1	39.88	39.86
1000	0.47	-23.29	-20.34	-22.49	0.268	0.2	-20.34	-34.11	41.09	41.14

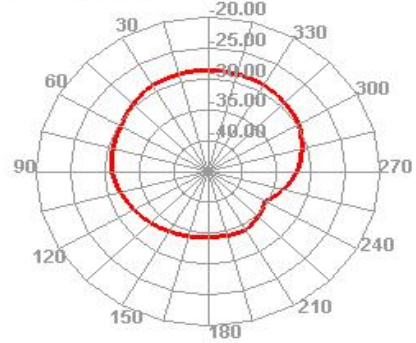
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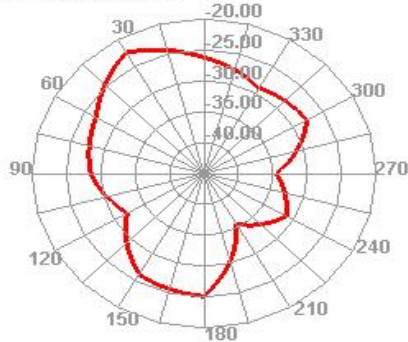
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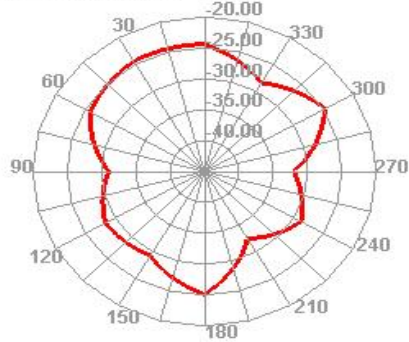
800.000MHz H



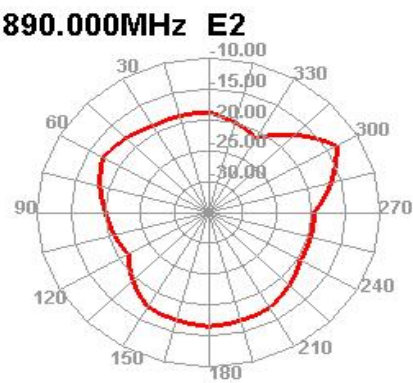
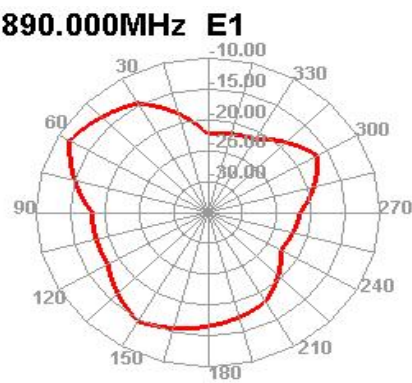
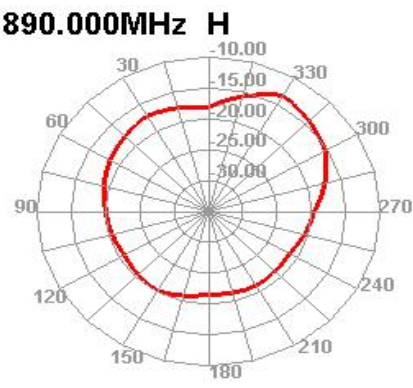
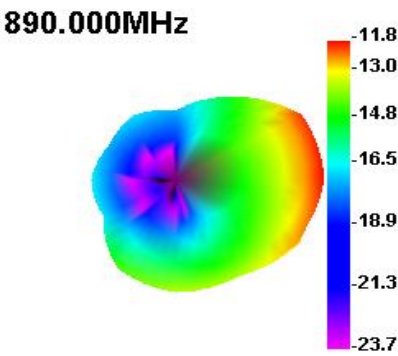
800.000MHz E1



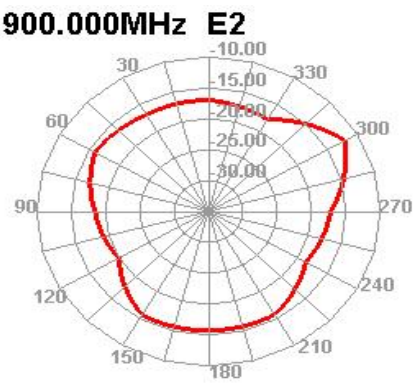
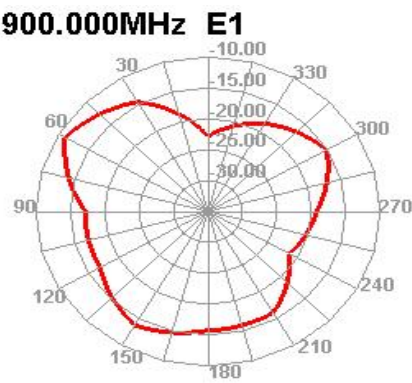
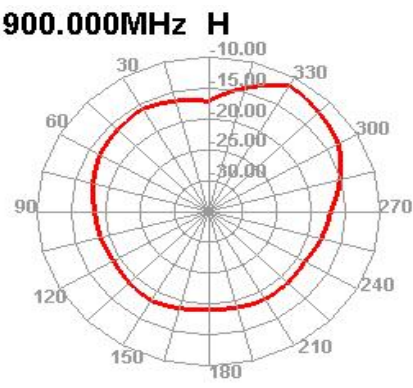
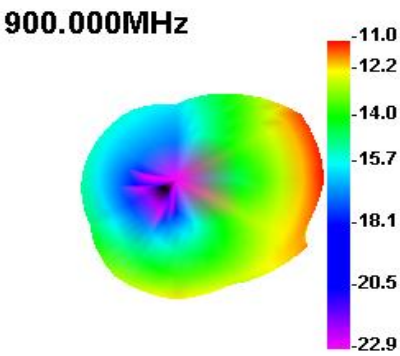
800.000MHz E2



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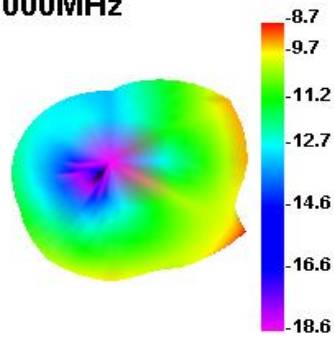


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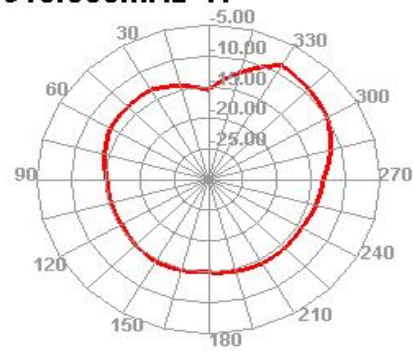


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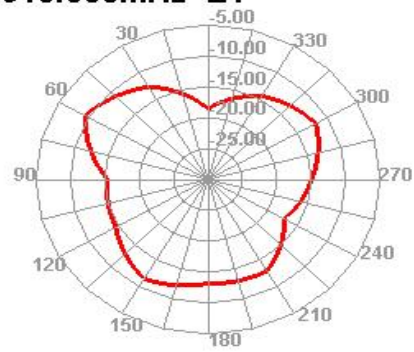
910.000MHz



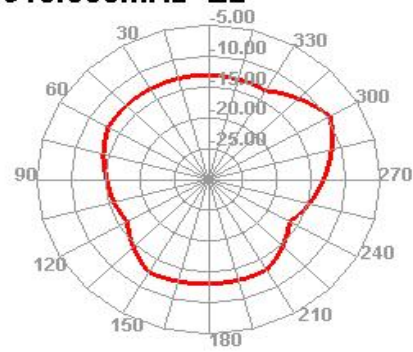
910.000MHz H



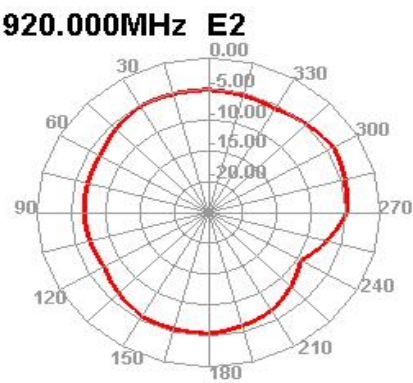
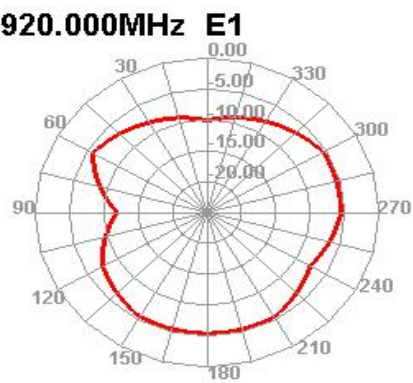
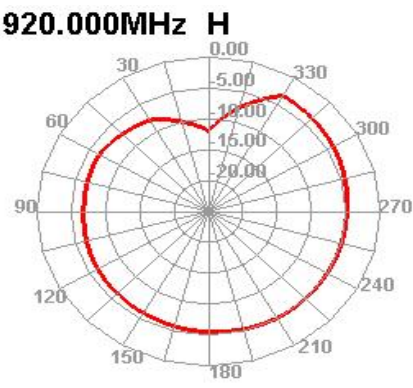
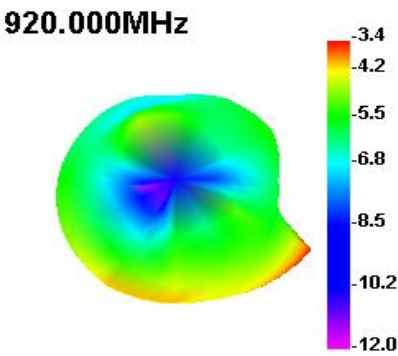
910.000MHz E1



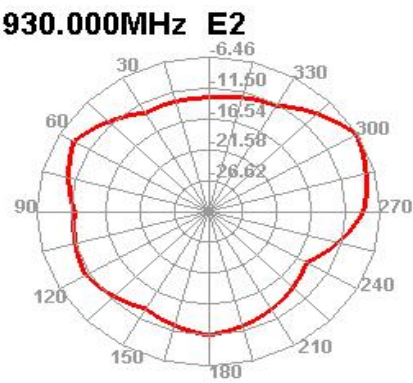
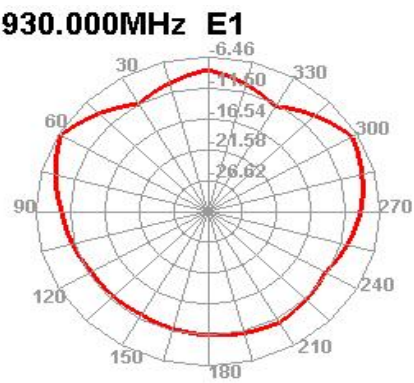
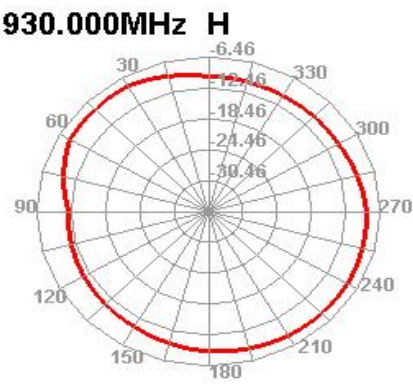
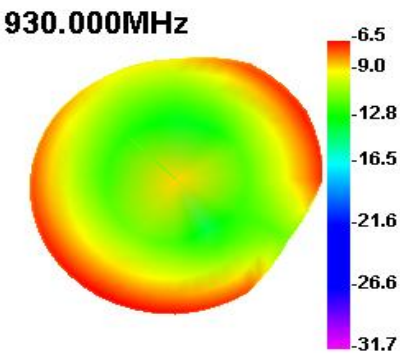
910.000MHz E2



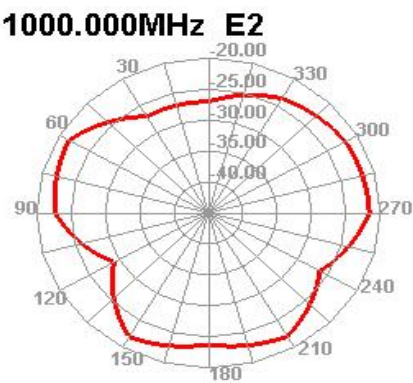
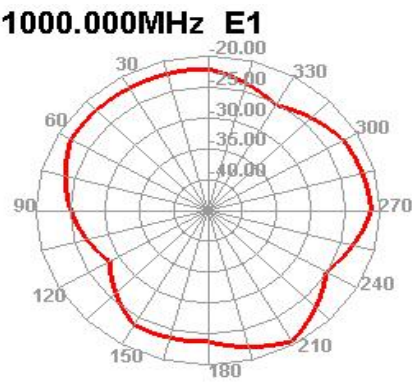
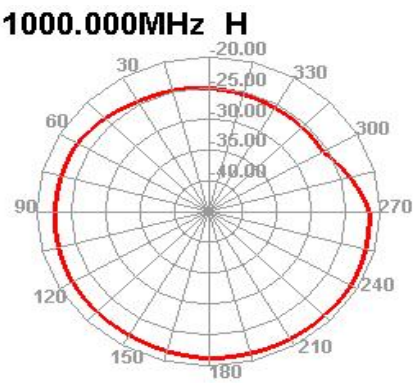
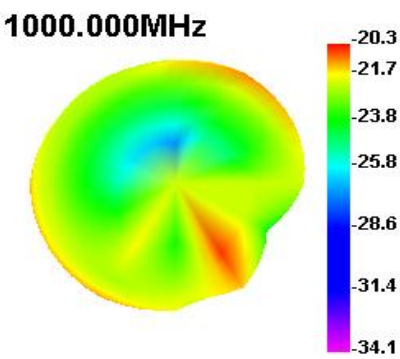
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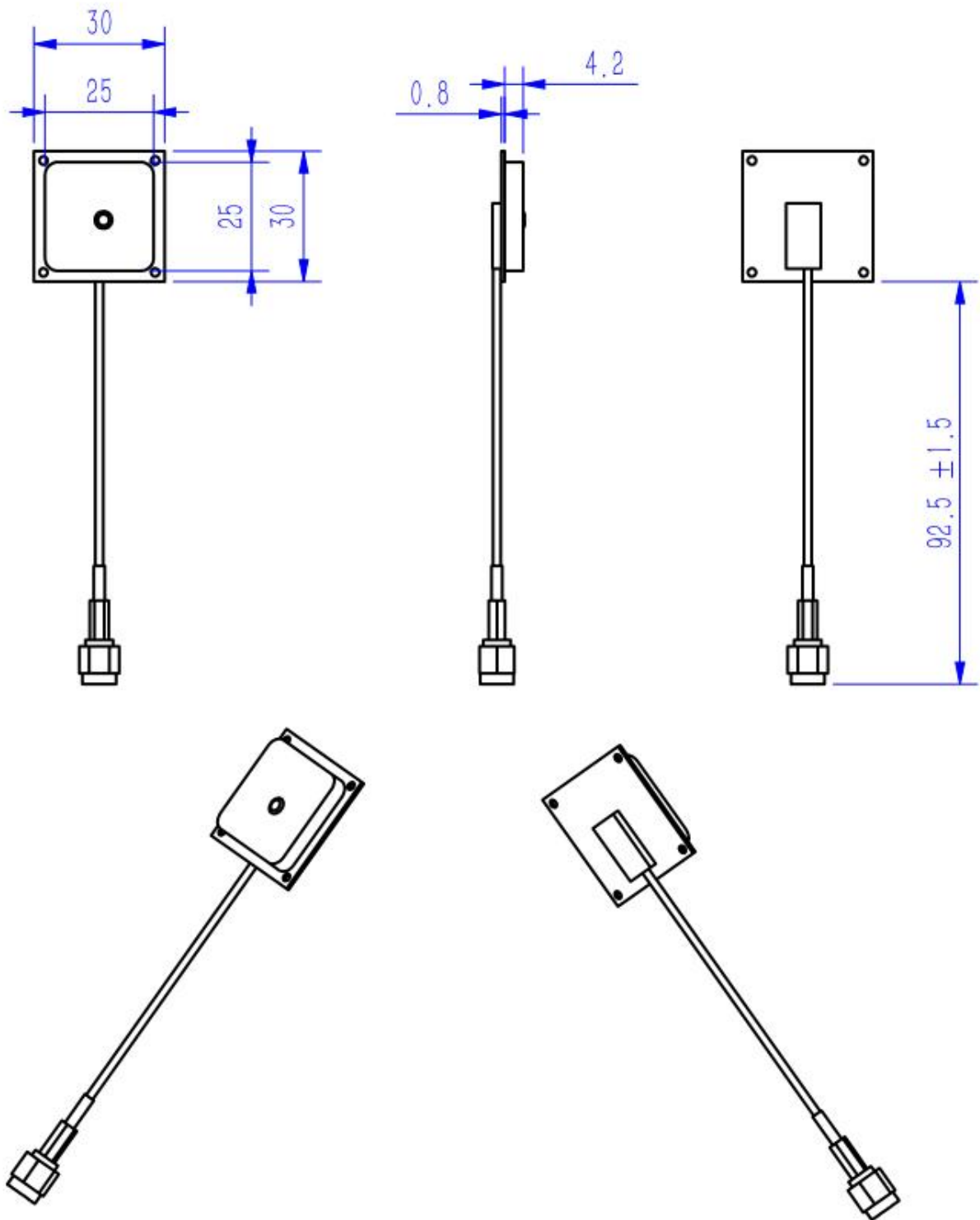
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