
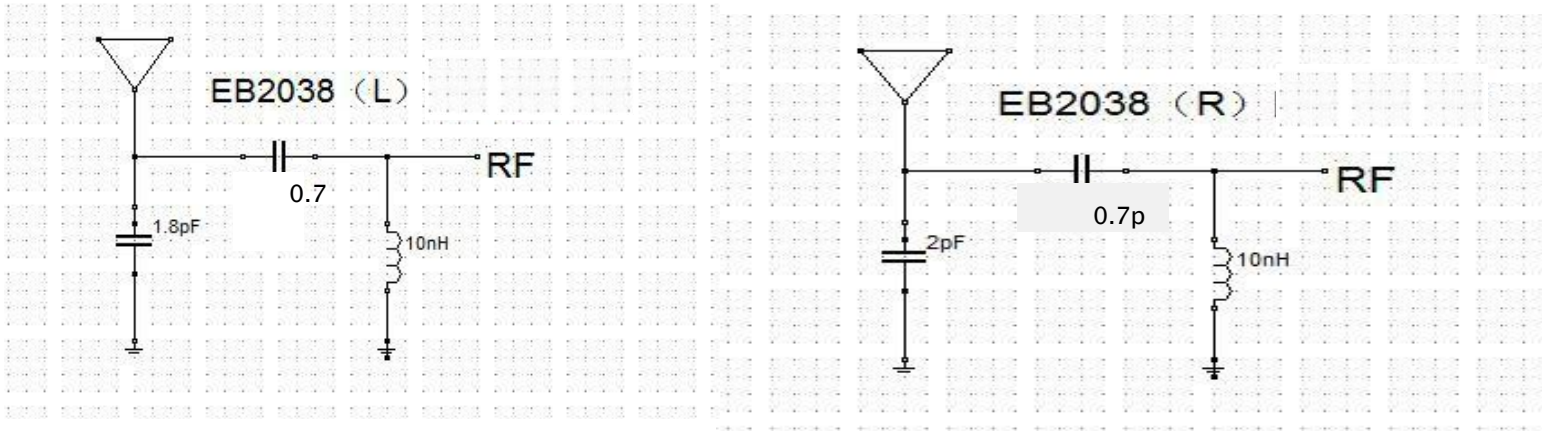




Client/project name	Set science and technology/EB2038		frequency band	BT 2.4G		
Model	V1958-022-A-01		versions	R: A		
Antenna Type:	FPC Antenna					
RF	YouYanLi	notarize	quality	Yu hong	notarize	
construction	He Farong		PM	Bai Fenglian		
date	2022-6-21					
The name of the material	Client Project Name:					
	Customer Project No. :					
customer confirmation						
RF			quality			
construction			PM			
date						
Research and development project customer satisfaction survey (customers please comment on the work of our research and development or PM)						
RF technical personnel	<input type="checkbox"/> satisfaction	<input type="checkbox"/> be basically satisfied	<input type="checkbox"/> dissatisfied			
Structural	<input type="checkbox"/> satisfaction	<input type="checkbox"/> be basically satisfied	<input type="checkbox"/> dissatisfied			
Project Management (PM Managers)	<input type="checkbox"/> satisfaction	<input type="checkbox"/> be basically satisfied	<input type="checkbox"/> dissatisfied			
Suggestion Item Description:						
						

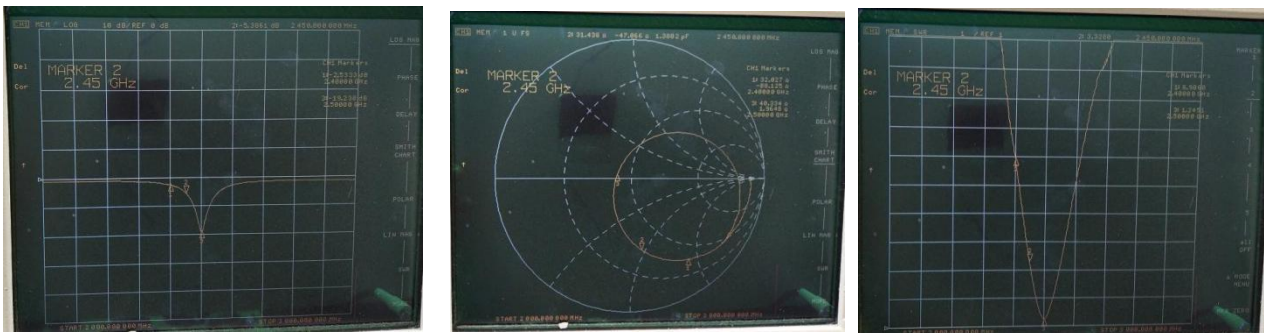
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1、Antenna matching circuit:



2、S11 Test Data:

2.1.1 Antenna back loss/Smith/standing wave ratio diagram (L) :



2.1.2 Antenna backloss/Smith/standing wave ratio diagram (R) :

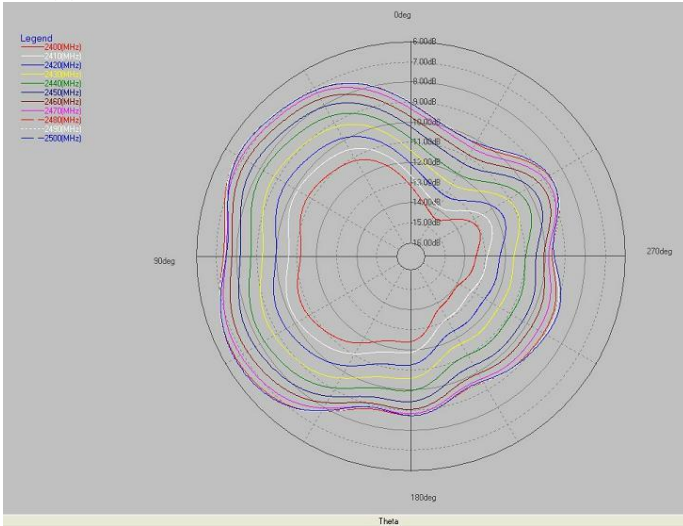


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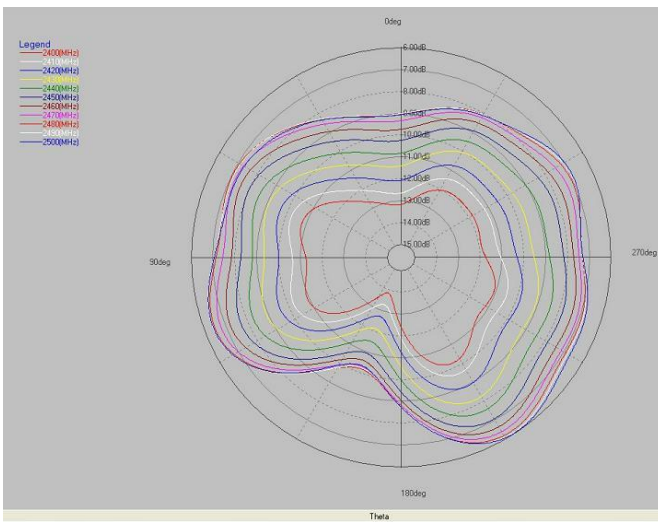
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2.2 2D antenna diagram:

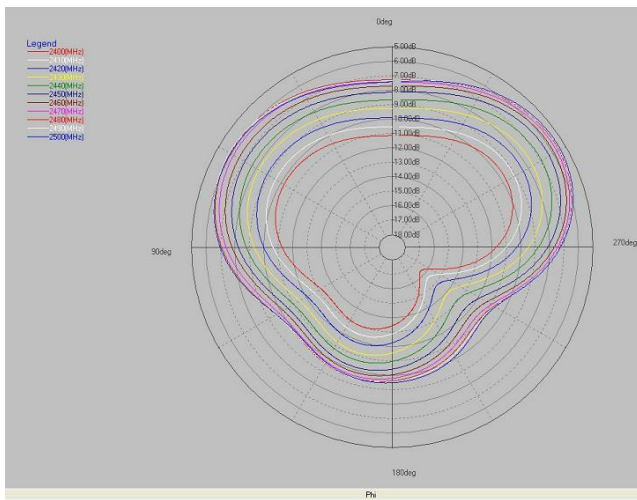
2.2.1 (L) E1 side:



E2 :



H :

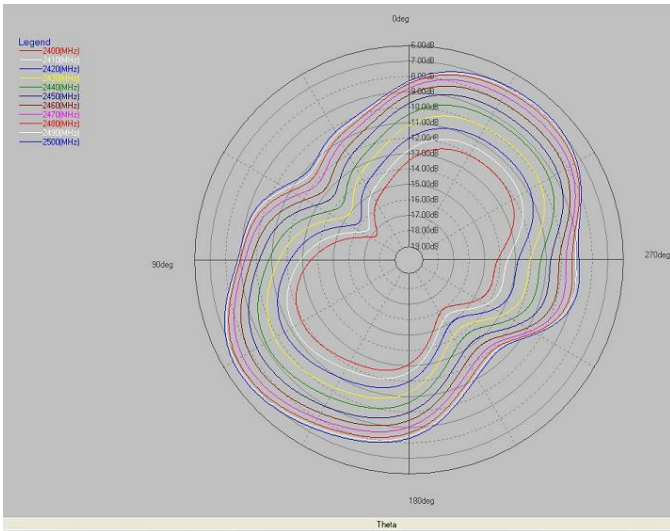


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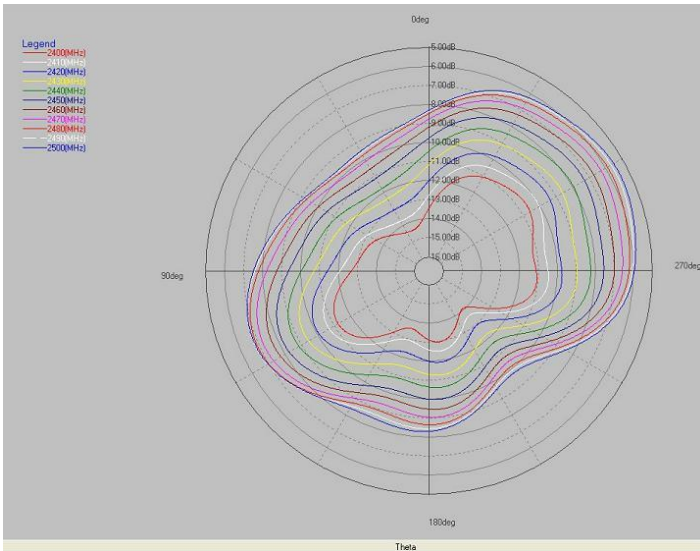
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2.2.2 (R)

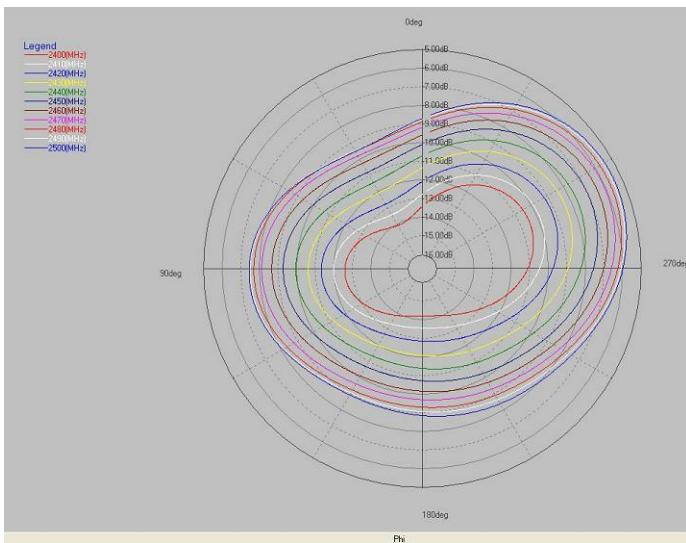
E1 :



E2 :



H :



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2.3 Antenna passive test data

L			
Frequency (MHz)	Efficiency (%)	Efficiency . dB	peak_Gain . dB
2400	7%	-11.83	-9.23
2410	8%	-11.22	-8.65
2420	9%	-10.55	-7.96
2430	10%	-9.85	-7.18
2440	12%	-9.23	-6.47
2450	14%	-8.65	-5.83
2460	15%	-8.21	-5.39
2470	16%	-7.88	-5.13
2480	17%	-7.67	-4.92
2490	17%	-7.63	-4.83
2500	17%	-7.65	-4.71

R			
Frequency (MHz)	Efficiency (%)	Efficiency . dB	peak_Gain . dB
2400	5%	-12.85	-10.37
2410	6%	-12.26	-9.80
2420	7%	-11.60	-9.12
2430	8%	-10.85	-8.35
2440	10%	-10.19	-7.67
2450	11%	-9.54	-7.01
2460	13%	-8.99	-6.48
2470	14%	-8.56	-6.07
2480	15%	-8.21	-5.70
2490	16%	-8.04	-5.45
2500	16%	-7.94	-5.27

3. Active data

	Channel	TRP (DBm)	TIS (DBm)
Left	0	2.47	-85.6
	39	3.91	-87.2
	78	2.41	-85.2
right	0	1.17	-85.2
	39	3.02	-85.4
	78	1.06	-85.0

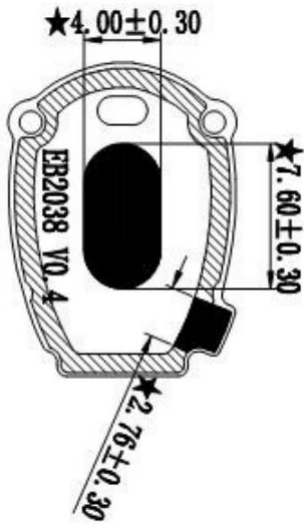
4. Suggestions and Conclusions

This report is based on the antenna electrical performance measured by the HP2038 charging bin project provided by the customer. As can be seen from the above test data, this antenna provides good electrical performance. Weili Valley R & D is looking forward to your confirmation, thank you for your cooperation!

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5、Product drawing



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