

Shenzhen jiashengjia Technology Co., Ltd

Antenna Test Report



日期：2022年4月15日

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1.Introduction to project debugging

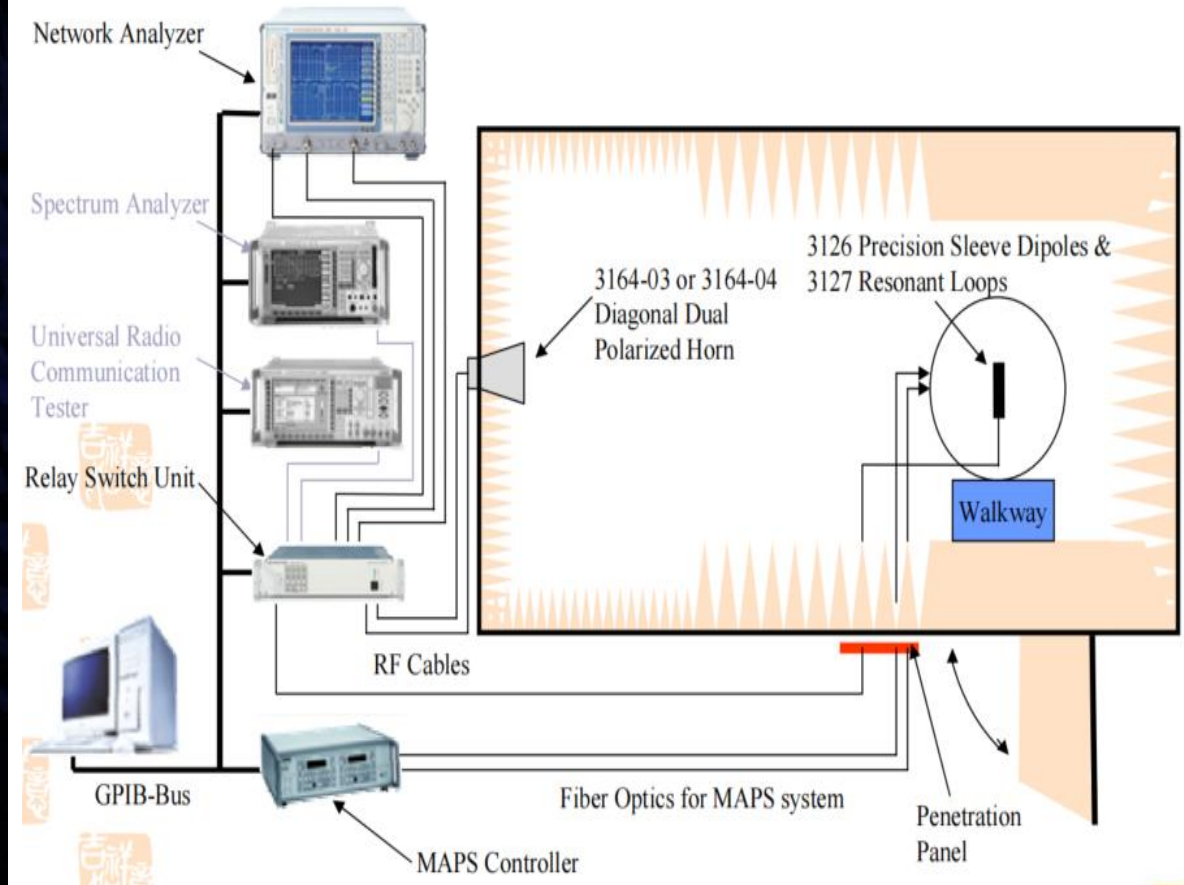
Client name		组创		Project name		P21353	
Machine type		对讲机		Antenna material		FPC+Cable	
Antenna generalization	Main antenna	Antenna band		Antenna state	Antenna region	Antenna form	Whether the antenna configuration is changed
	Other antennas	Bluetooth antenna	2.4GHz-2.5GHz	sample			否

2.Contact information for project leader

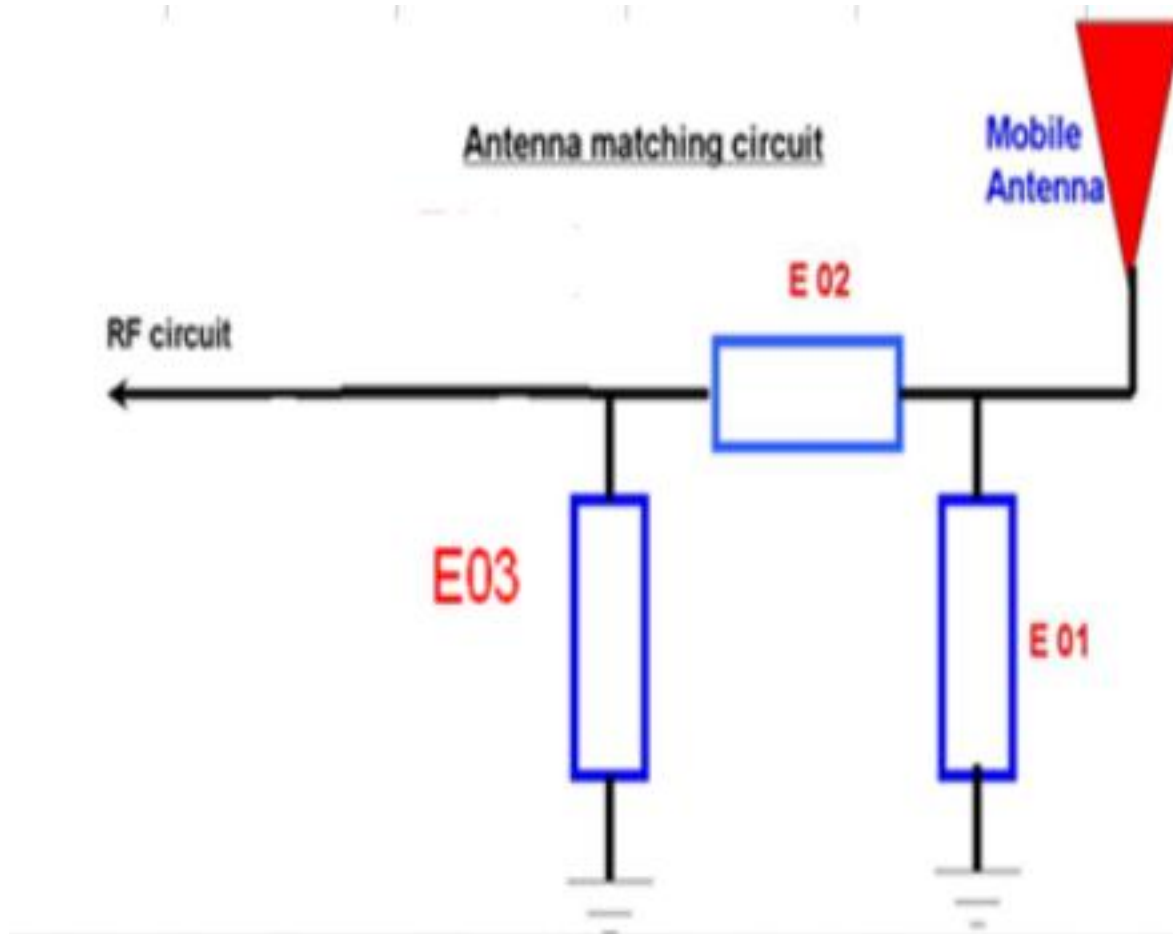
Sales engineer	Wu Sheng	15013792335	1587676069@qq.com

3. Test environment

Integrated measuring instrument	CMW500
darkroom	Atenlab M3
Test engineer	易伟
temperature	25°C
humidness	65% (RH)



4. Antenna matching circuit

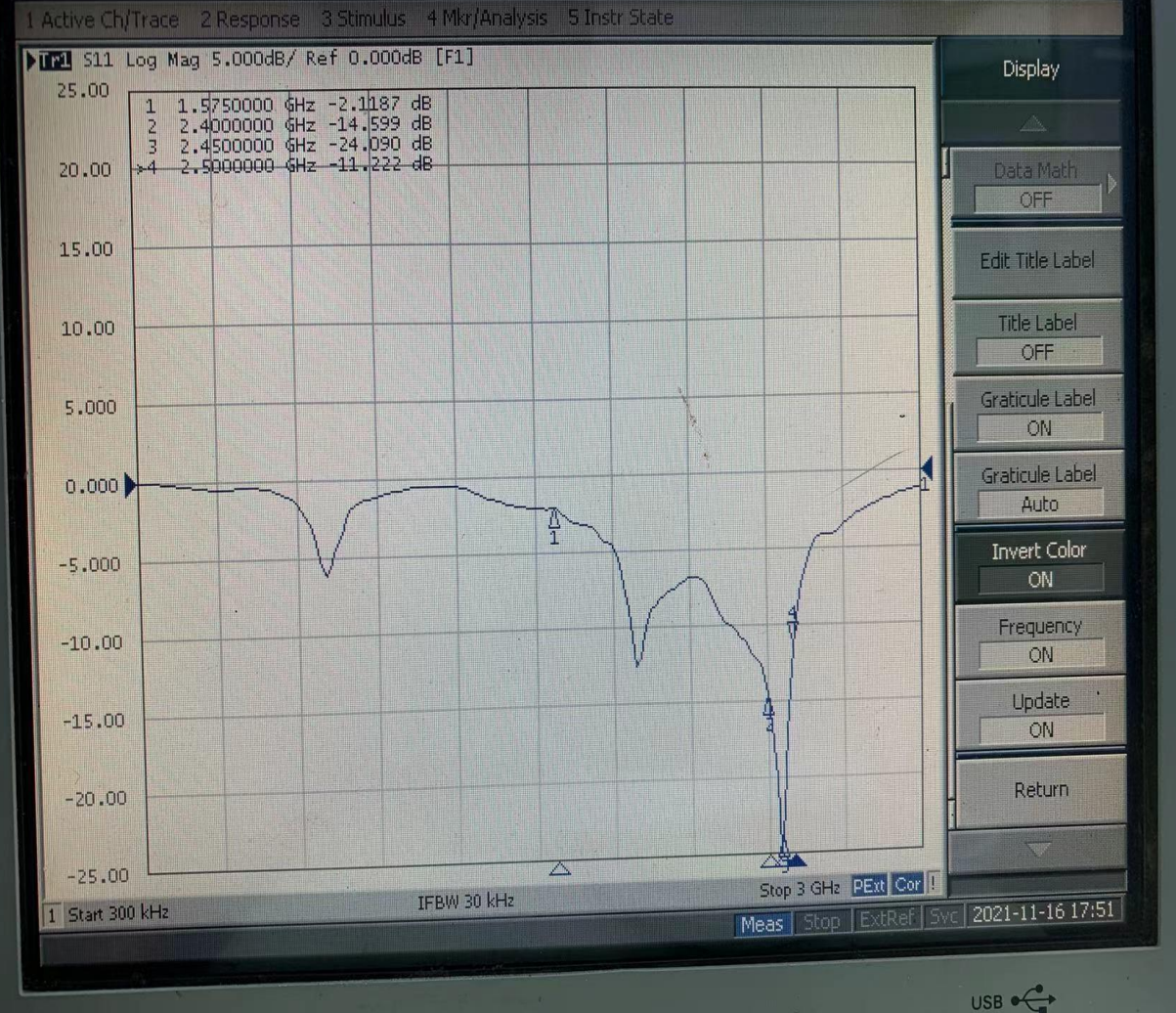
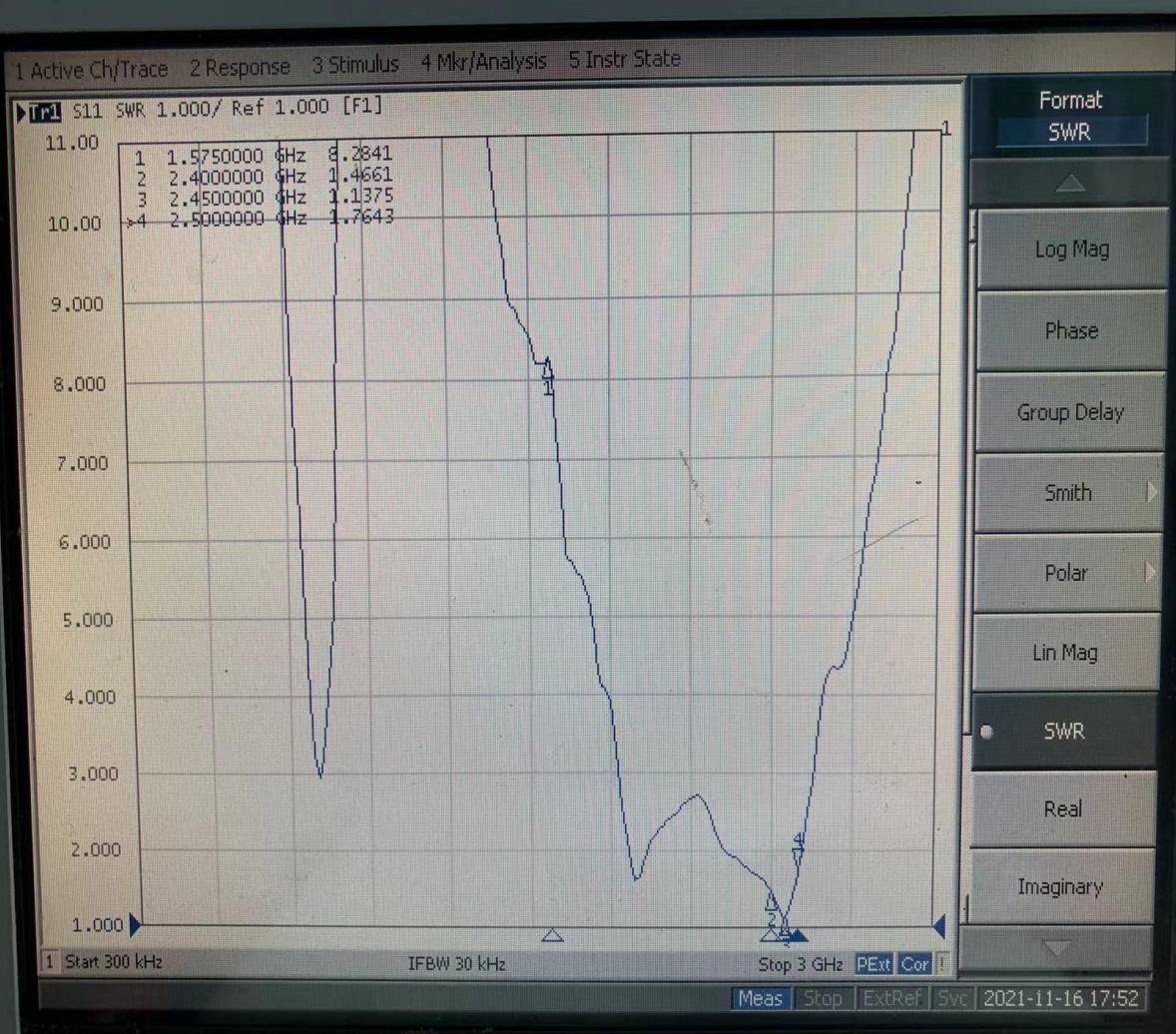


E01	
E02	
E03	

OTA Passive test data(P21353-1)

Passive Test For 2.4G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	42.92	-3.67	2.39
2410	41.65	-3.8	2.45
2420	43.18	-3.65	2.75
2430	45.75	-3.40	2.63
2440	44.06	-3.56	2.53
2450	42.19	-3.75	2.87
2460	43.33	-3.63	2.49
2470	48.67	-3.13	2.33
2480	45.93	-3.38	2.19
2490	41.46	-3.82	2.32
2500	40.58	-3.92	1.83

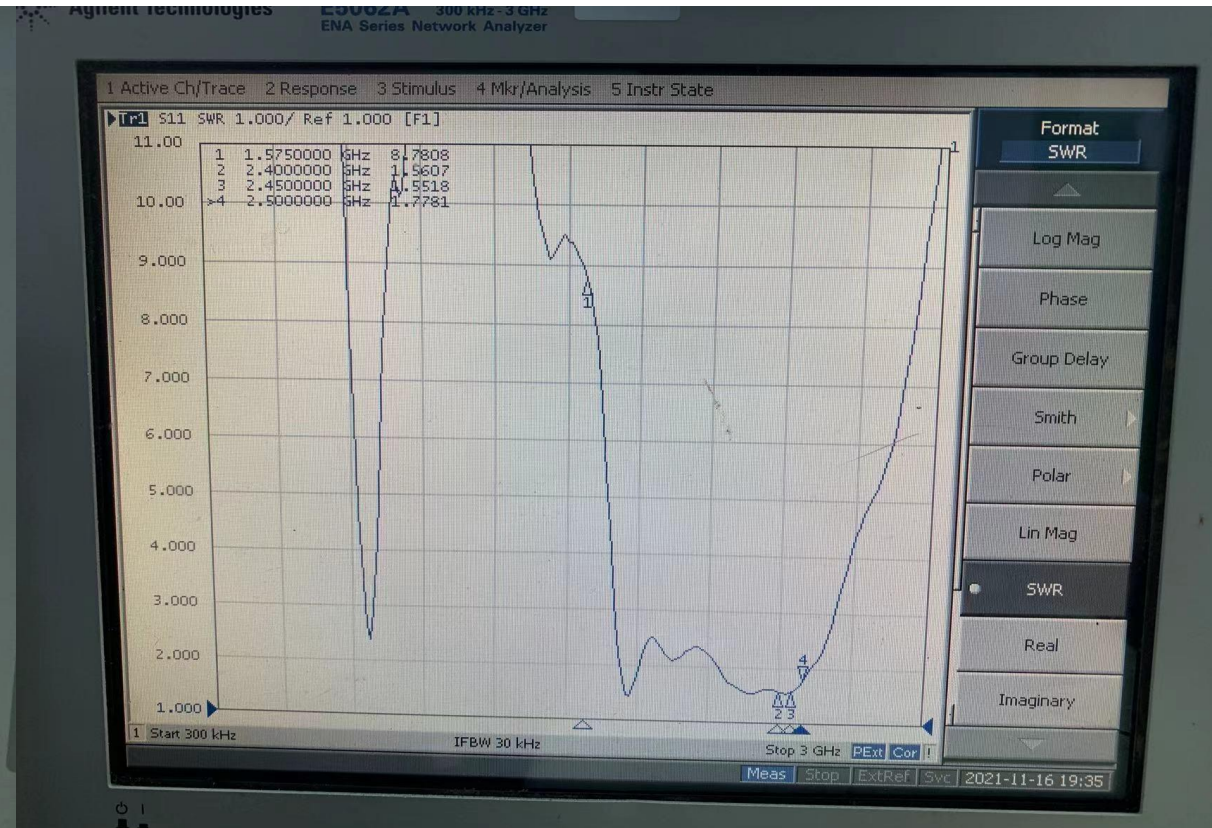
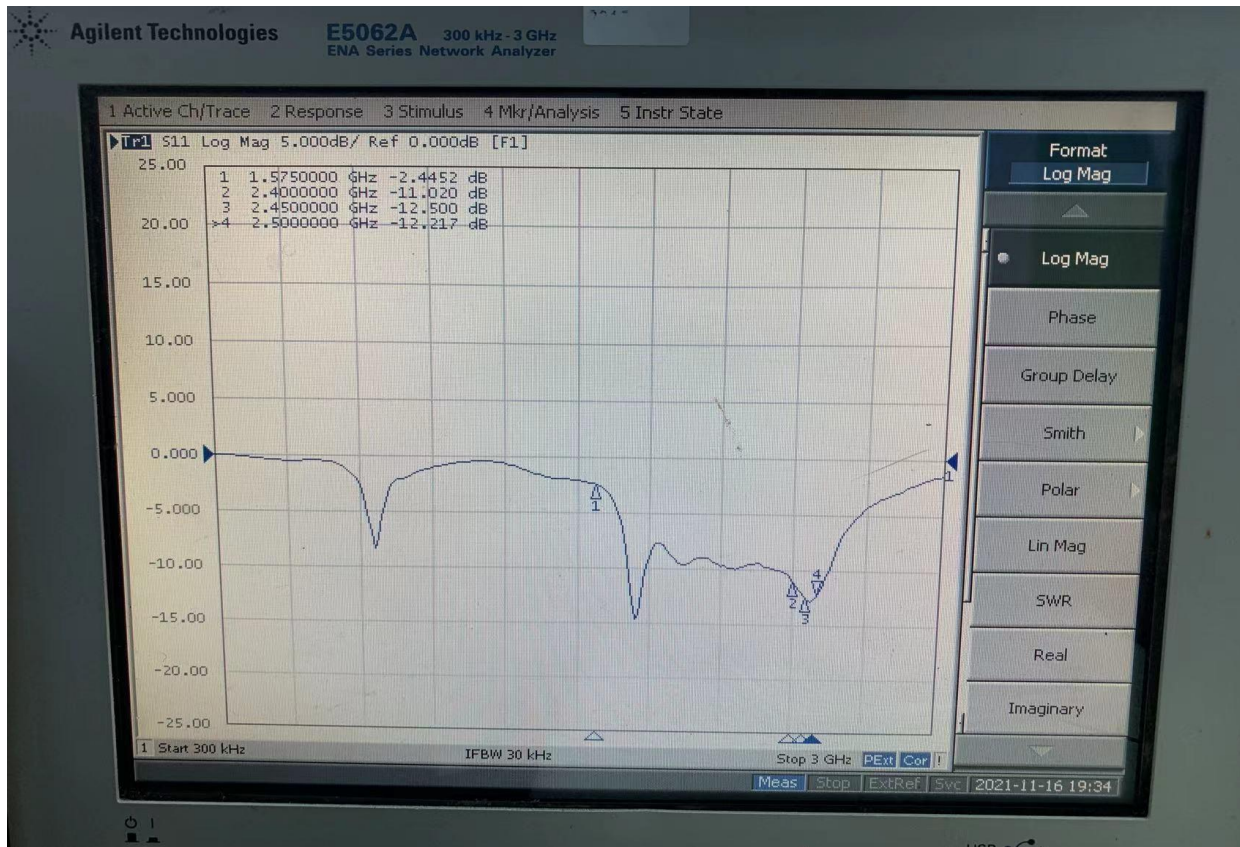
Antenna passive loss and standing wave(P21353-1)



OTA Passive test data(P21353-2)

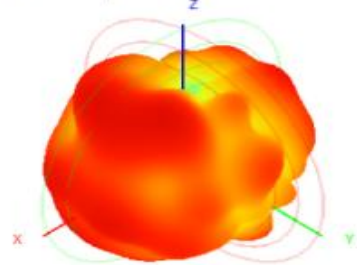
Passive Test For 2.4G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	42.73	-3.69	0.87
2410	41.35	-3.84	0.55
2420	44.66	-3.5	0.9
2430	44.07	-3.56	0.93
2440	43.34	-3.63	1.01
2450	46.64	-3.31	1.64
2460	42.99	-3.67	1.46
2470	42.91	-3.67	1.5
2480	43.99	-3.57	1.49
2490	46.02	-3.37	1.5
2500	43.45	-3.62	1

Antenna passive loss and standing wave(P21353-2)

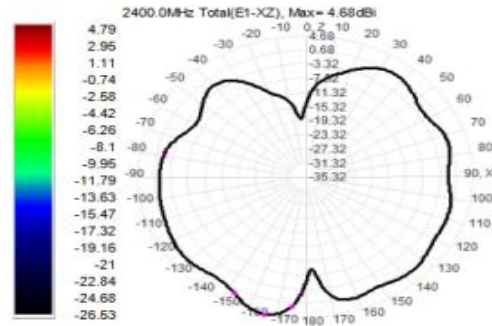
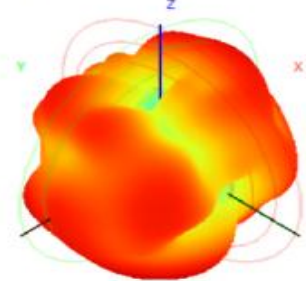


Antenna pattern(P21353)

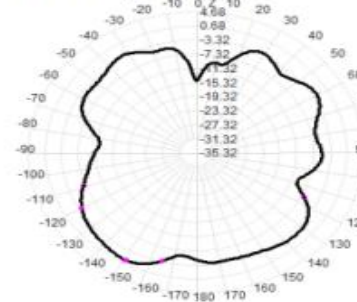
2400.0MHz H+V, Eff: 64.8%



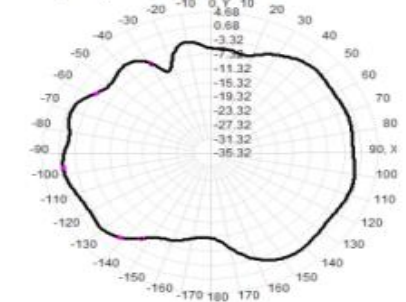
Back View



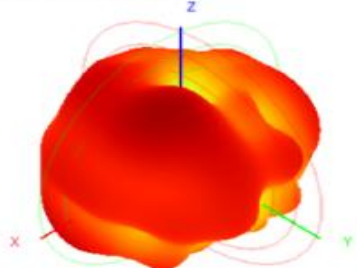
2400.0MHz Total(E2-YZ), Max=-0.68dBi



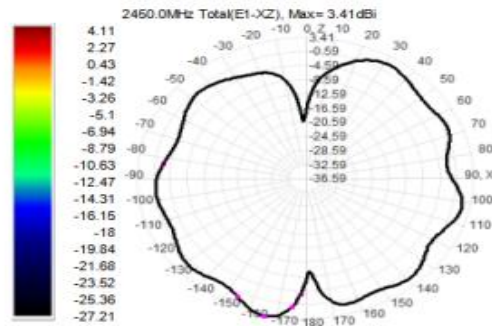
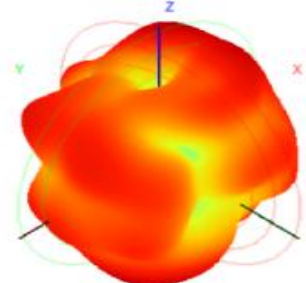
Total(H+V), Max=-0.12dBi, CrD=11.15



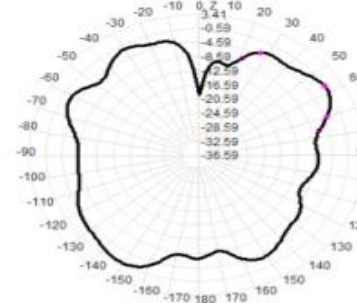
2450.0MHz H+V, Eff: 61.4%



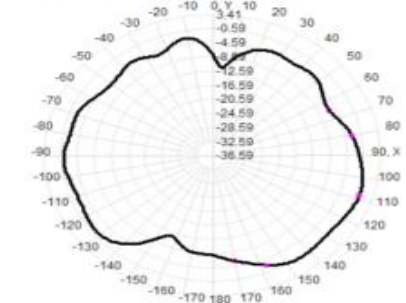
Back View



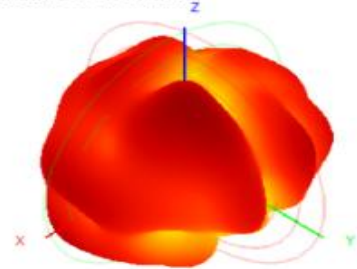
2450.0MHz Total(E2-YZ), Max=-0.64dBi



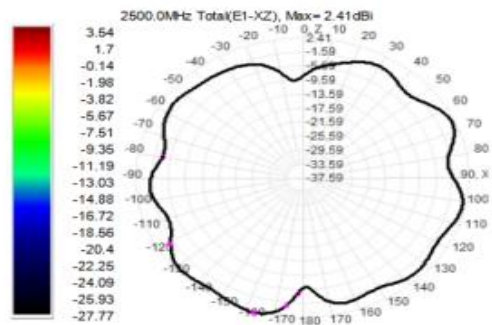
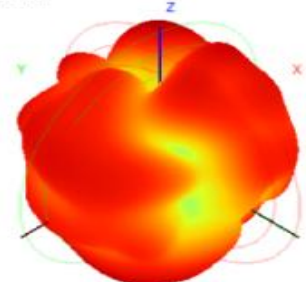
Total(H+V), Max=-0.11dBi, CrD=11.77



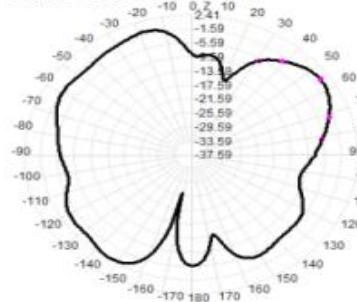
2500.0MHz H+V, Eff: 62.4%



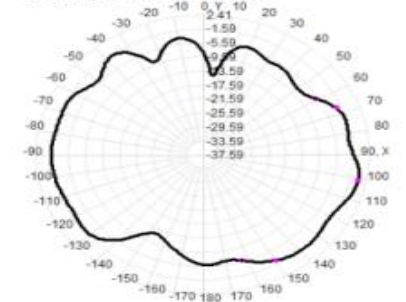
Back View



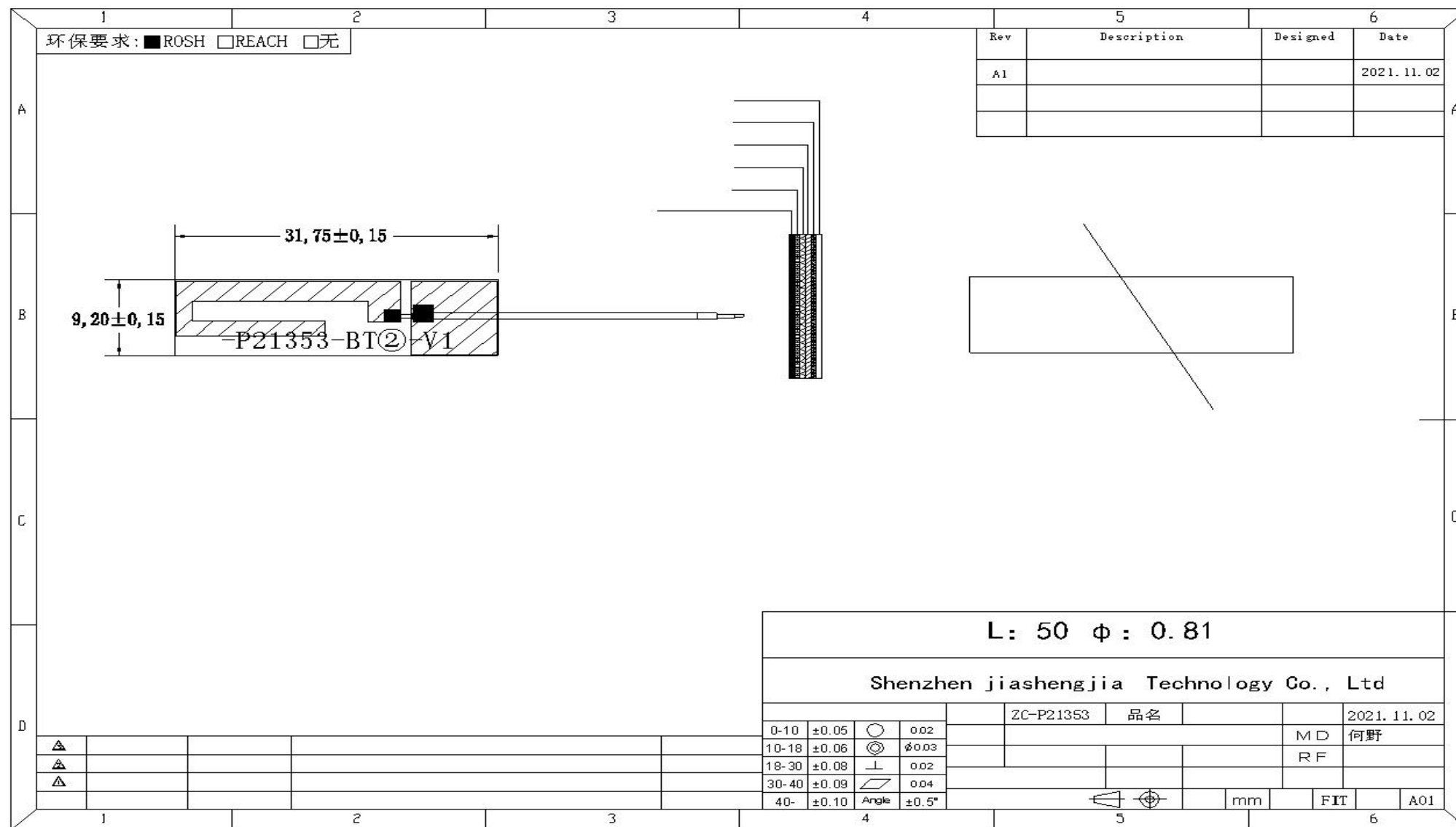
2500.0MHz Total(E2-YZ), Max= 0.01dBi



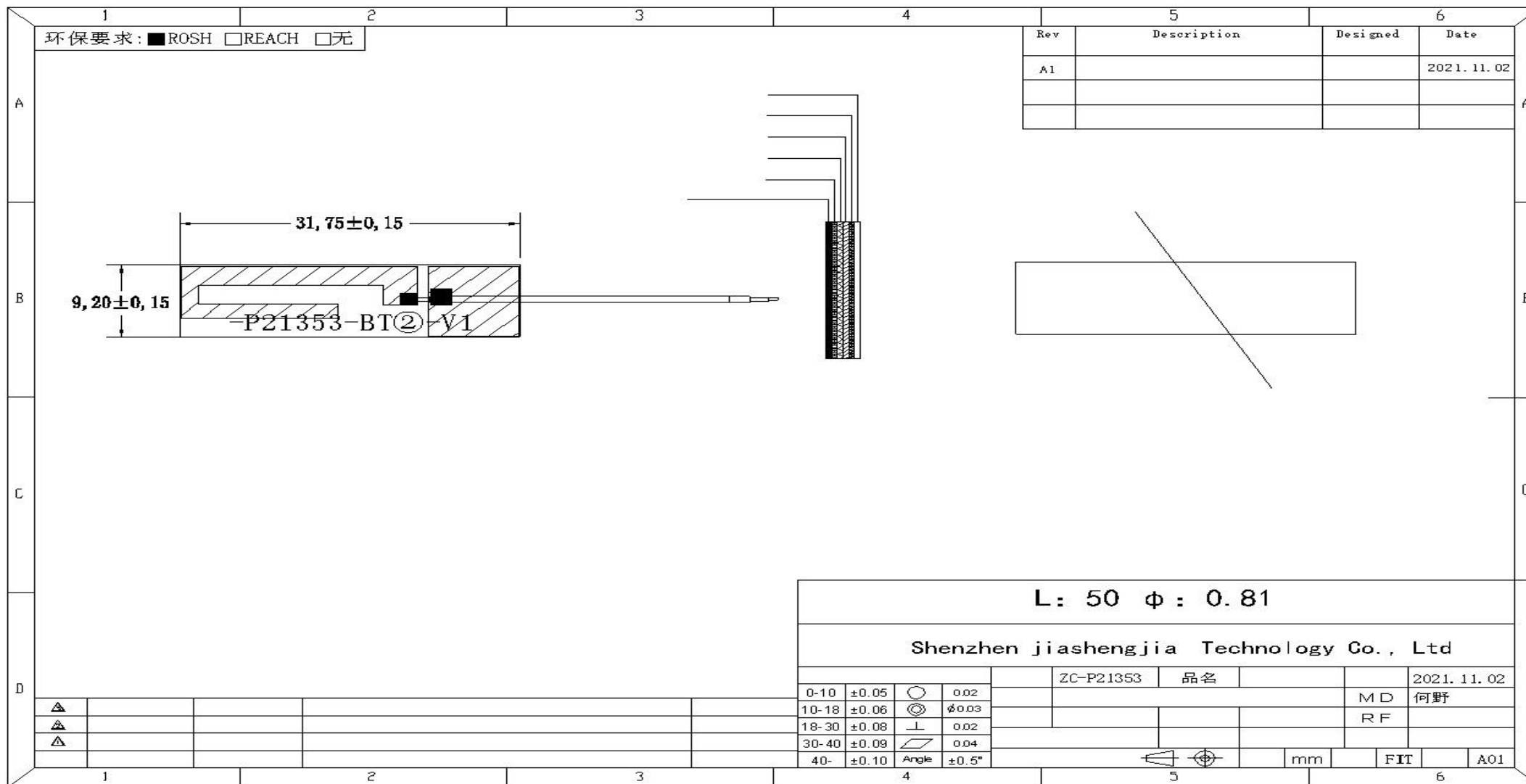
Total(H+V), Max= 0.11dBi, CrD=14.97



Antenna size specification(P21353-1)



Antenna size specification(P21353-2)



THANK YOU



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