Specification for approval

Customer Name：

Project Name：

Customer Part Number：

ProductName： 2.4G&5.8G Rod Antenna

Category & Part Number： Mold SampleFYT-05 & F12E00020A2

Supplier： Shenzhen Feasycom Co.,LTD

Date： 2019-10-17

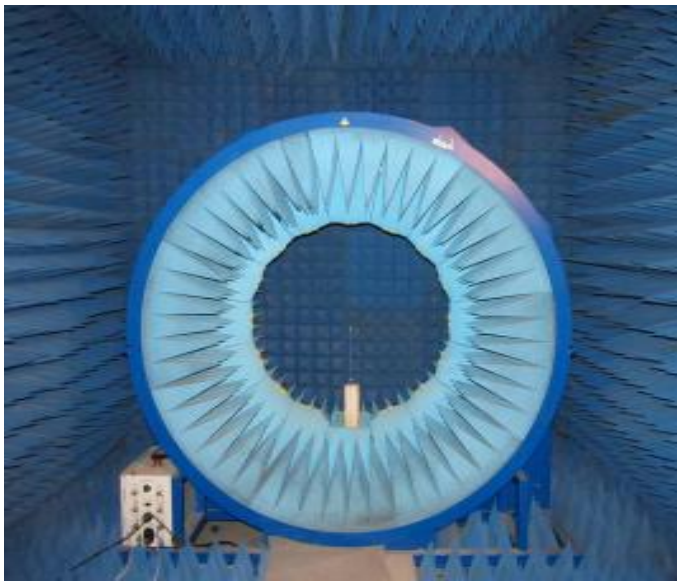
File Version： A

Supplier		Customer	
Compilation		Purchase	
Audit		Project	
Approve		Quality	
☑New Materials ☐Recycle(Number to be recycled:)			
Official seal October 17, 2019		Official seal Year Month Day	

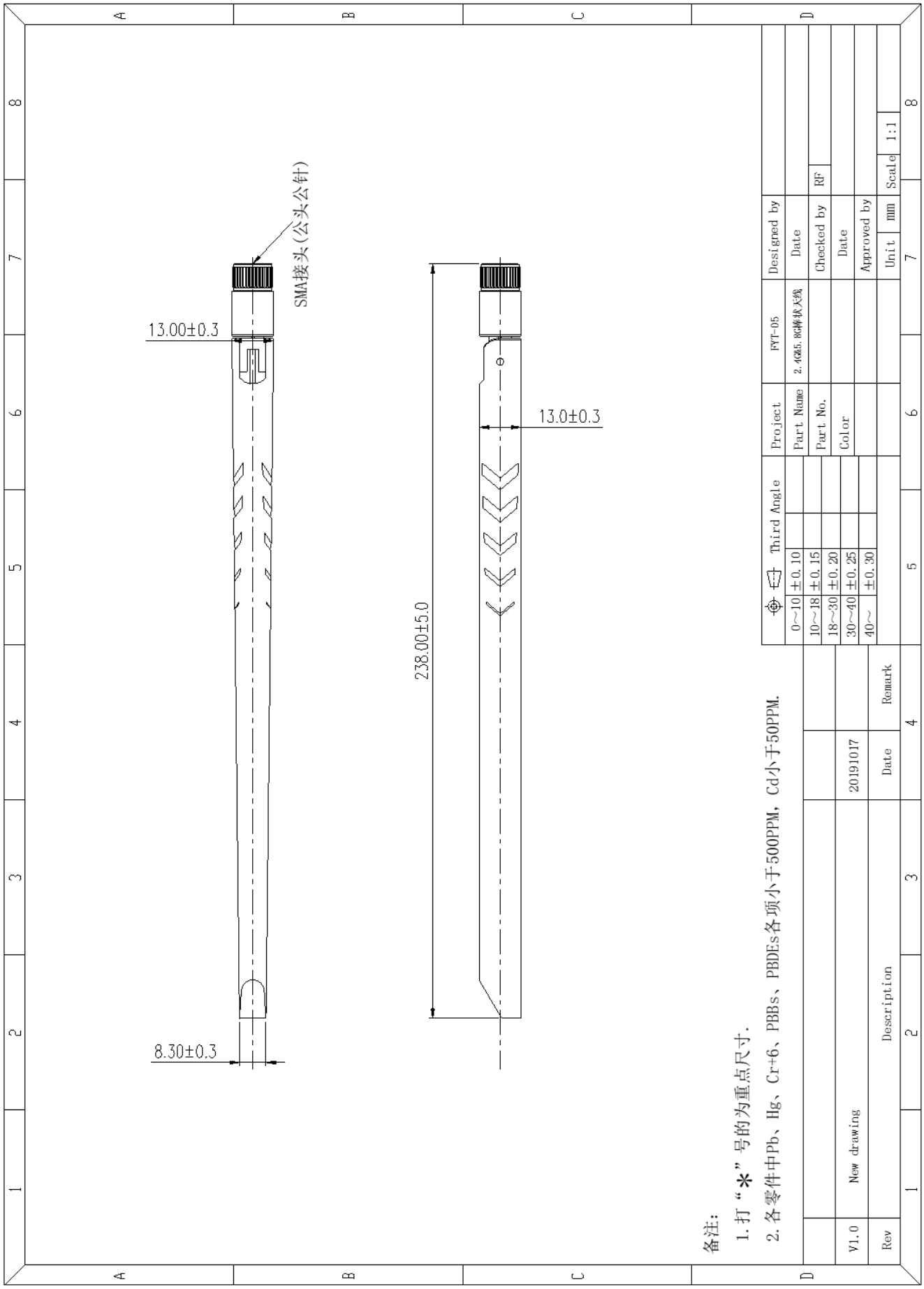
Content

3. Test items and equipment

List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone1800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	



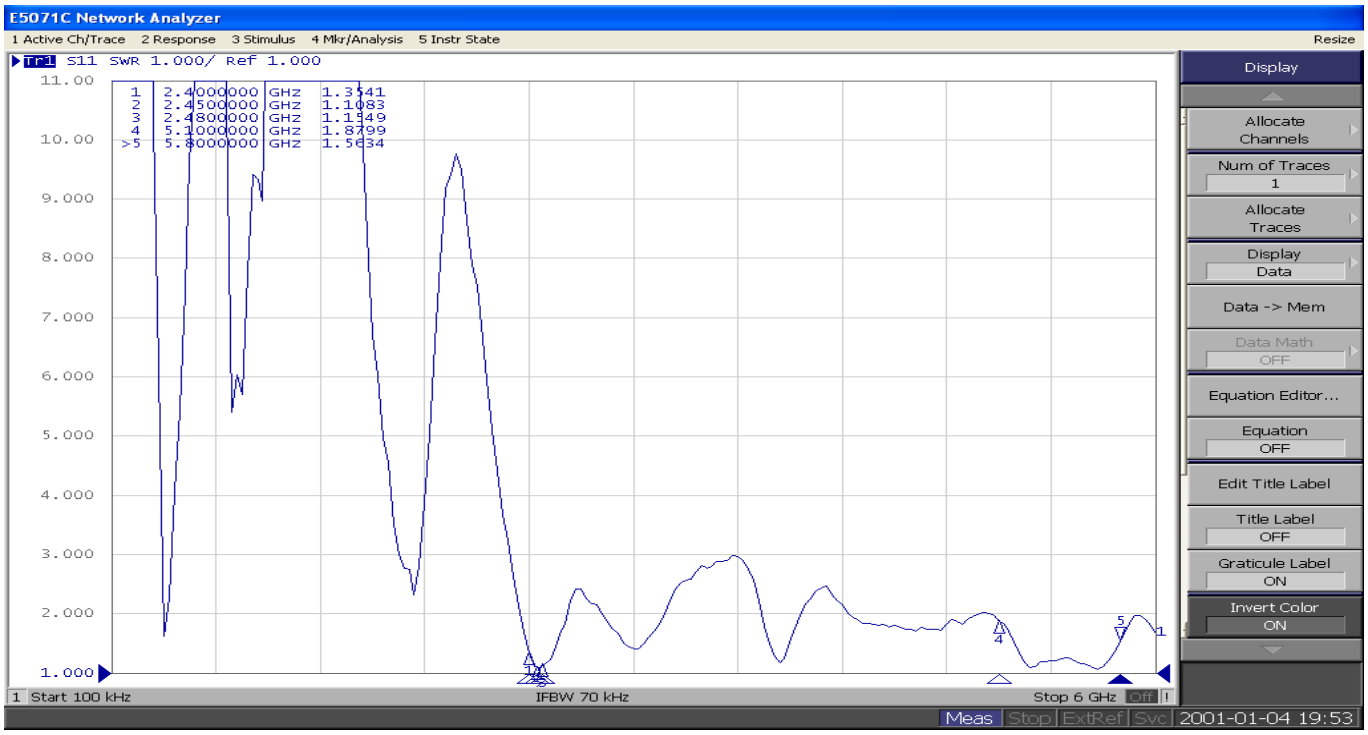
4. Engineering drawings



5. Antenna Test

5.1 Performance Testing

5.1.1 VSWR



5.1.2 Passive test(2.4G)

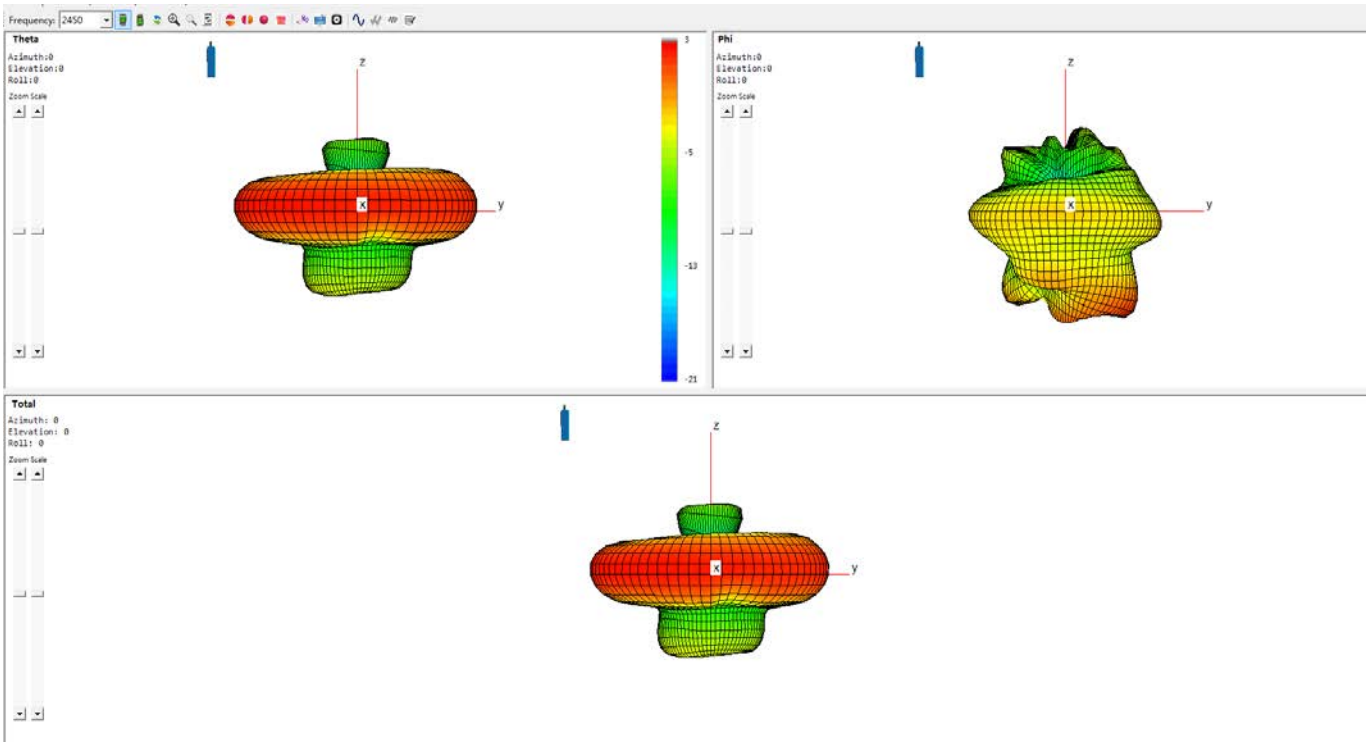
Freq	2350	2360	2370	2380	2390	2400	2410	2420
Gain	1.81	1.87	1.75	2.07	2.21	2.30	2.68	2.73
Efficiency_Pcent	45.95	47.13	46.56	51.25	53.87	54.78	59.05	58.11
Freq	2430	2440	2450	2460	2470	2480	2490	2500
Gain	2.78	2.73	2.71	2.79	2.94	2.87	2.82	2.88
Efficiency_Pcent	57.89	57.83	57.84	59.47	61.21	60.38	60.36	62.03
Freq	2510	2520	2530	2540	2550			
Gain	2.98	2.94	2.91	2.86	2.76			
Efficiency_Pcent	63.16	61.57	59.15	58.38	57.76			

5.1.3 Passive test(5.8G)

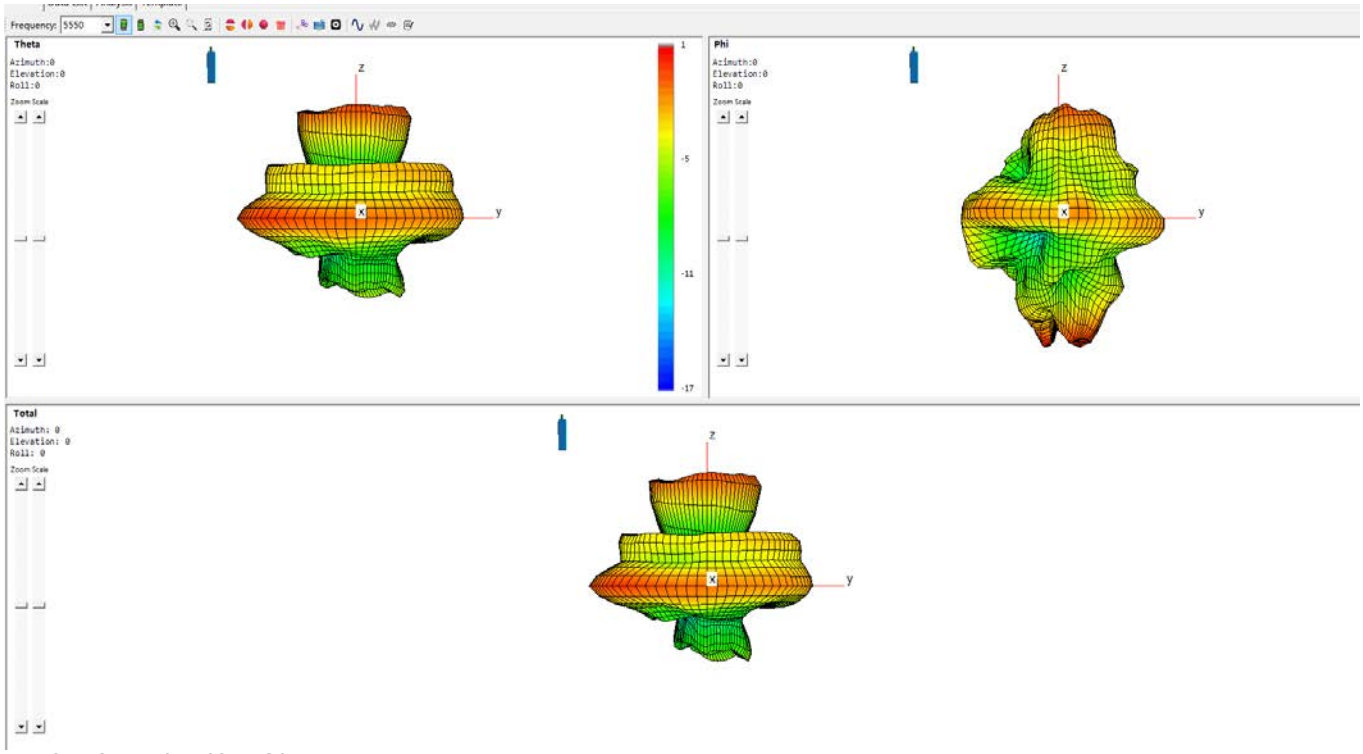
Freq	5000	5010	5020	5030	5040	5050	5060	5070
Gain	-1.08	-0.97	-0.84	-0.78	-0.47	-0.48	-0.46	-0.34
Efficiency_Pcent	42.77	45.11	44.44	45.01	47.62	47.06	46.61	46.75
Freq	5080	5090	5100	5110	5120	5130	5140	5150
Gain	-0.42	-0.39	-0.27	-0.32	0.06	0.12	0.29	0.50
Efficiency_Pcent	46.05	46.16	46.27	45.92	47.02	46.69	45.94	46.05
Freq	5160	5170	5180	5190	5200	5210	5220	5230
Gain	0.30	0.39	0.57	0.92	1.26	1.35	1.17	1.44
Efficiency_Pcent	44.01	43.46	44.20	45.45	47.02	46.45	43.52	43.84

Freq	5240	5250	5260	5270	5280	5290	5300	5310
Gain	1.48	1.92	1.79	1.68	2.05	2.12	2.35	2.18
Efficiency_Pcent	44.23	45.03	43.39	40.79	44.09	44.25	45.89	45.02
Freq	5320	5330	5340	5350	5360	5370	5380	5390
Gain	2.03	1.97	1.73	1.65	1.48	1.26	0.69	0.62
Efficiency_Pcent	44.10	45.48	44.69	45.59	45.43	44.86	42.48	42.37
Freq	5400	5410	5420	5430	5440	5450	5460	5470
Gain	0.62	0.44	0.05	-0.45	-0.68	-0.41	-0.63	-0.55
Efficiency_Pcent	43.38	43.05	39.86	38.13	36.27	37.16	36.33	38.39
Freq	5480	5490	5500	5510	5520	5530	5540	5550
Gain	-0.43	-0.37	-0.56	-0.63	-0.43	-0.40	-0.26	0.22
Efficiency_Pcent	38.66	37.56	36.25	35.36	36.95	36.90	36.57	39.03
Freq	5560	5570	5580	5590	5600	5610	5620	5630
Gain	0.59	0.71	0.84	0.65	0.69	0.58	1.01	1.03
Efficiency_Pcent	39.94	41.10	42.36	41.59	41.35	39.55	40.96	43.34
Freq	5640	5650	5660	5670	5680	5690	5700	5710
Gain	1.04	1.06	1.13	1.47	1.21	0.90	0.81	1.05
Efficiency_Pcent	45.67	46.00	46.37	49.00	46.20	44.67	42.30	43.35
Freq	5720	5730	5740	5750	5760	5770	5780	5790
Gain	1.37	1.47	1.12	1.19	1.57	1.40	1.17	0.96
Efficiency_Pcent	45.59	45.15	40.88	40.32	43.43	42.16	38.94	37.45
Freq	5800	5810	5820	5830	5840	5850	5860	5870
Gain	1.21	1.54	1.89	2.12	2.22	2.06	2.18	2.08
Efficiency_Pcent	39.39	42.33	44.76	47.27	48.44	45.87	46.91	48.23
Freq	5880	5890	5900	5910	5920	5930	5940	5950
Gain	2.05	2.09	1.22	1.19	1.09	0.84	0.74	0.82
Efficiency_Pcent	46.78	46.91	38.98	39.31	39.12	37.89	38.23	38.22
Freq	5960	5970	5980	5990	6000			
Gain	0.72	0.82	0.99	1.19	1.36			
Efficiency_Pcent	36.59	36.92	38.54	39.18	39.74			

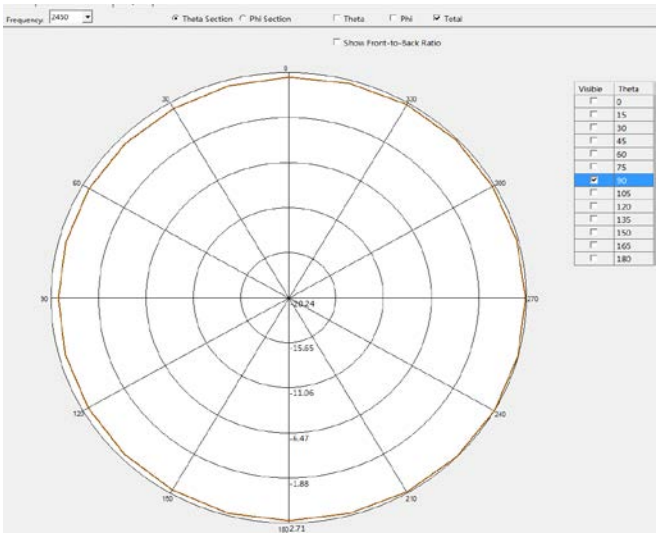
5.1.4 3D Plot(2.4G)

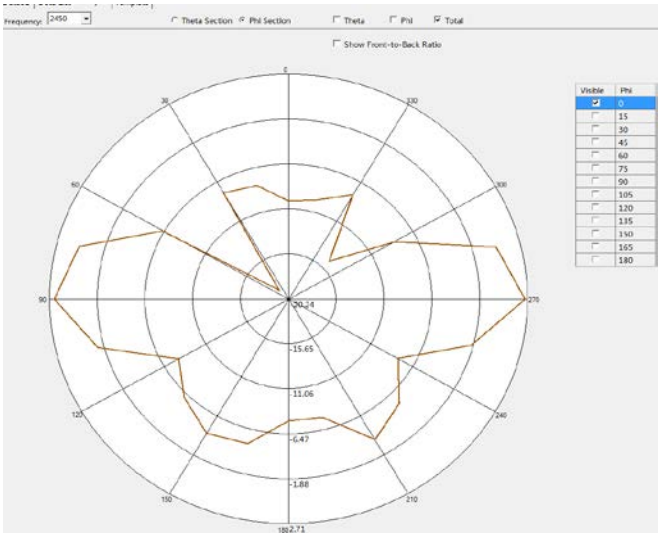


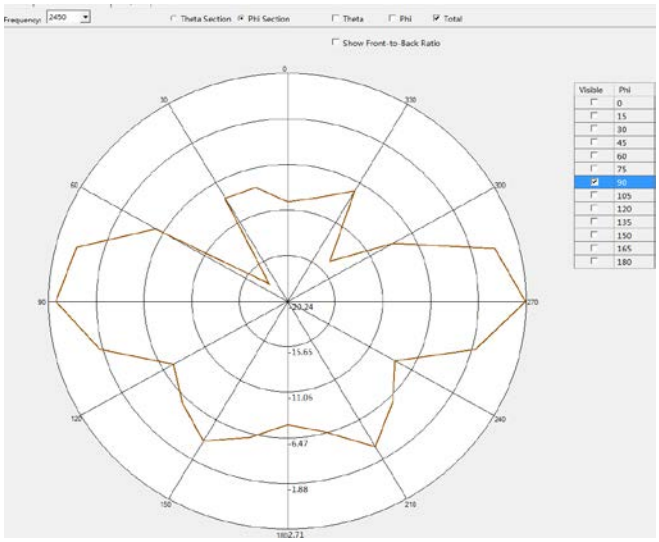
5.1.5 3D Plot(5.8G)



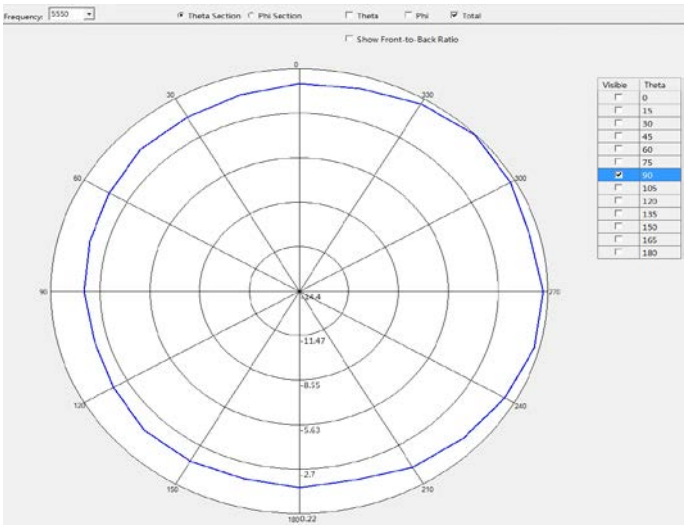
5.1.6 2D Plot(2.4G)

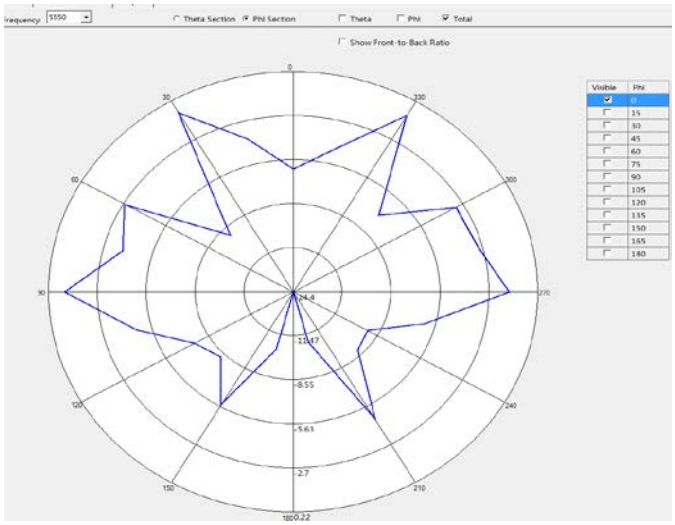


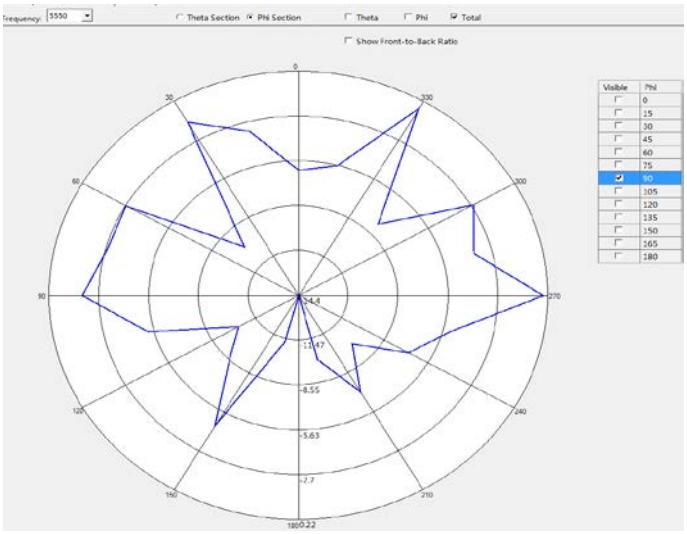




5.1.7 2D Plot(5.8G)







6. Letter of Approval Sample Size Inspection Report

Project Name	FYT-05	Antenna Type	2.4G&5.8G Rod Antenna	Inspection date	2019/10/17
Appearance inspection standards		1. There is no abnormality on the antenna surface.			
Size inspection standards		2. Within the tolerance range required by the drawing			

Code	Inspection items	Specification	Inspection tools	Number of samples	Judgment	illustrate
1	Appearance	As above standard	Visual	6PCS	OK	
2	Size	As shown in the following table	Vernier caliper	6PCS	OK	

Code	Inspection items	Specification	Inspection tools	Test results (including 6 data records of the highest and lowest values)					
				1	2	3	4	5	6
1	Dimensions	238.0±5.0	Caliper	238.03	238.05	238.09	238.04	238.09	238.08
2		13.0±0.3		13.01	13.07	13.05	13.02	13.09	13.08
3									
4									
5									
Remark									

Inspector: 董春玲	Reviewer:陈建尤	Approver: 侯希

7. ROHS test report

Project material name	Material Code	Report test sample name	Testing agency	Detection time	Test report number	Test Conclusion	Remark
FYT-05	F12E00020A2（M1G.0093-R0A）						
Fictitious：董春玲		Reviewer：陈建尤		Date：2019-10-17		Stamping place：	