Approval sheet

ZoomSmart project	A1005 ANT0
ZoomSmart P/N	0101020351
Supplier name	Suzhou Huimi Communication Technology Co., Ltd
Supplier P/N	HM0237-ANT0
Sample signing date	

Function ☐	Drawing ☐	Measurement report ☐	Material report ☐	Reliability test report ☐	Packing ☐
Supplier	Producer	ME	RF	BD	QC
ZoomSmart	ME	RF	PD	PM	QC

Note: heads of departments must manually sign for confirmation

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1. Summary

This is the ANT0 antenna approval sheet

Working band :

699-960MHz，1710-2690MHz，3300-3800MHz，4400-5000MHz

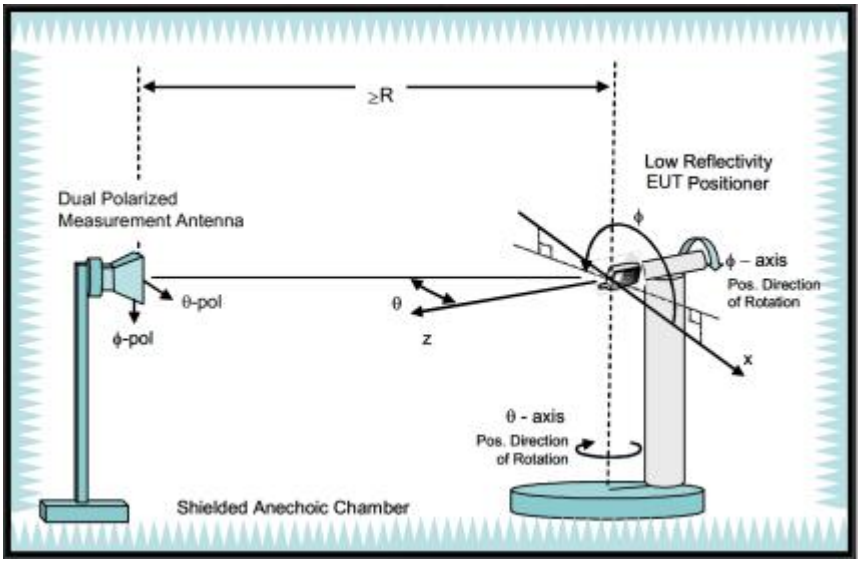
2. Antenna Structure

FPC+cable

3.Device Conditions

Picture 1 A1005 mobile phone photo

4.Test Environment



Picture 2 Test Environment photo

5.Antenna Test Results

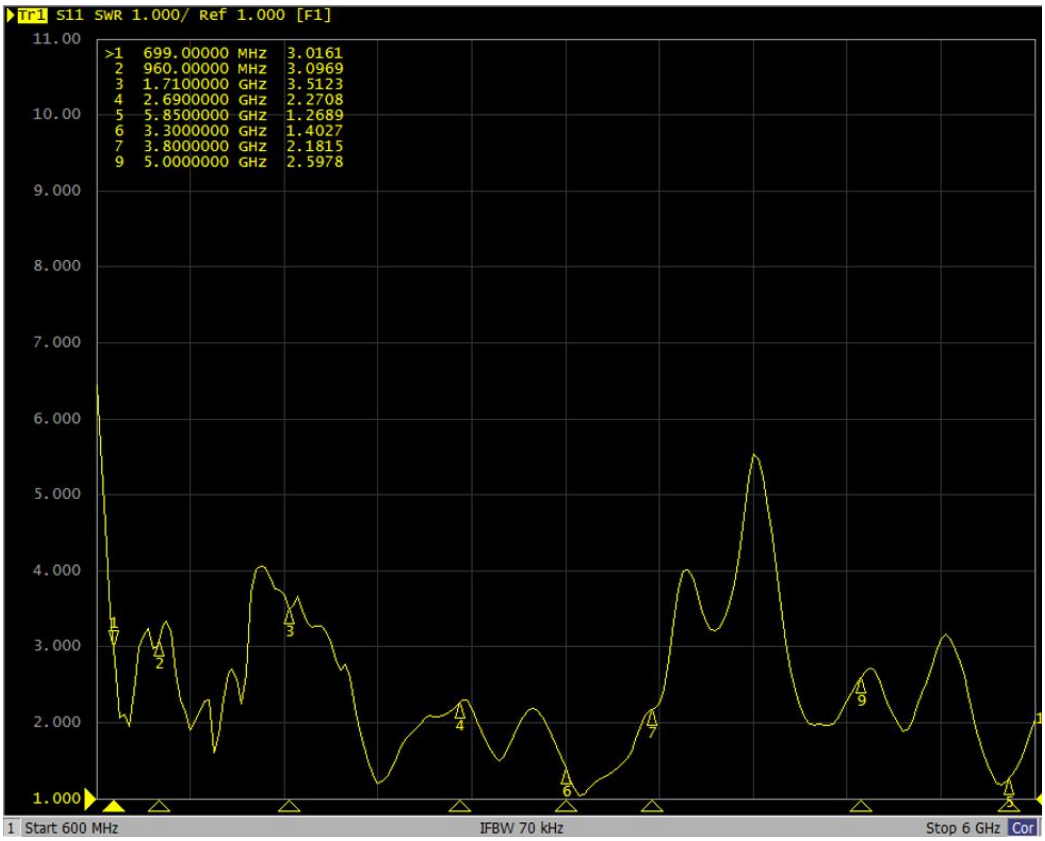
5.1 Antenna Photos

Picture 3 ANT0 antenna photograph

5.2 Antenna Matching

No matching

5.3 Passive VSWR



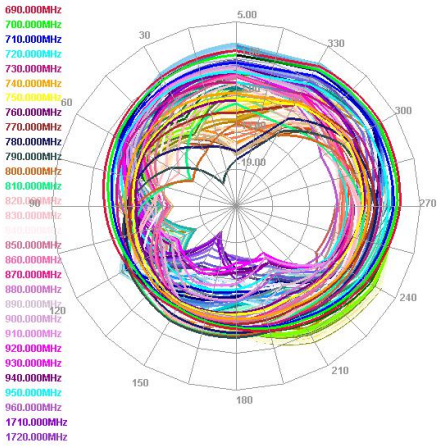
Picture 4 ANT0 antenna VSWR

5.4 Passive Efficiency

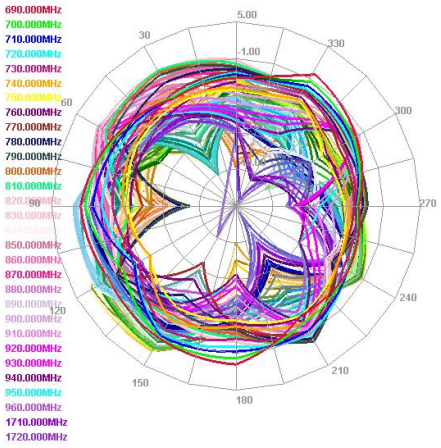
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
690	62.05	2.23	1890	34.48	0.36	2350	52.95	3.29	3500	48.38	3.07
700	54.46	1.78	1900	34	0	2360	51.18	3.25	3520	51.96	3.58
710	48.83	0.9	1910	34.05	0.26	2370	53.82	3.57	3540	50.95	3.88
720	45.11	0.88	1920	41.79	1.28	2380	51.04	3.52	3560	53.36	4.3
730	36.97	-0.09	1930	46.1	1.83	2390	44.73	3.02	3580	48.5	4.24
740	25.77	-2.05	1940	45.77	1.9	2400	42.68	2.95	3600	46.8	4.28
750	21.76	-3.33	1950	42.92	1.7	2410	40.6	2.81	3620	40.11	3.58
760	23.1	-2.2	1960	46.61	1.97	2420	41.44	3.01	3640	45.32	3.7
770	32.98	-1.06	1970	43.2	1.37	2430	39.86	2.96	3660	40.29	2.41
780	39.46	0.18	1980	43.43	1.31	2440	37.11	2.8	3680	39.34	1.46
790	45.85	0.66	1990	45.76	1.6	2450	38.15	2.93	3700	33.64	0.21
800	45.51	0.21	2000	40.03	0.96	2460	38.25	2.88	3720	32.64	0.32
810	46.72	0.45	2010	38.47	0.91	2470	37.25	2.55	3740	28.27	-0.15
820	44.53	0.2	2020	33.79	0.47	2480	38.55	2.49	3760	29.73	0.1
830	50.74	0.91	2030	30.28	0.08	2490	35.47	1.84	3780	25.64	-0.91
840	48.15	0.98	2040	30.81	0.41	2500	35.89	1.93	3800	24.55	-1.49
850	46.98	0.98	2050	31.66	0.67	2510	39.39	2.44	4400	22.85	-0.67
860	51.22	1.33	2060	31.78	0.77	2520	42	2.81	4420	21.65	-0.71
870	53.41	1.66	2070	34.07	0.91	2530	45.76	3.26	4440	26.08	0.33
880	48.87	1.4	2080	36.41	1.02	2540	44.77	3.26	4460	21.98	-0.48
890	57.09	2.24	2090	38.54	1.11	2550	37.97	2.64	4480	25.14	0.34
900	52.34	1.91	2100	40.81	1.35	2560	36.67	2.56	4500	26.29	0.52
910	48.45	1.63	2110	41.93	1.54	2570	35.99	2.51	4540	29.57	0.85
920	46.26	1.48	2120	45.43	1.91	2580	36.01	2.39	4560	31.52	0.68
930	44.37	1.38	2130	47.12	1.89	2590	42.38	2.94	4580	32.77	0.82
940	37.73	0.84	2140	45.43	1.84	2600	40.8	2.68	4600	39.57	1.31
950	38.85	1.09	2150	47.6	2.35	2610	38.27	2.28	4620	34.91	0.74
960	34.97	0.9	2160	51.68	2.96	2620	39.4	2.35	4640	39.29	1.6
1710	17.33	-2.21	2170	55.54	3.43	2630	41.2	2.49	4660	38.07	1.26
1720	16.71	-2.3	2180	54.82	3.46	2640	36.62	1.9	4680	33.14	0.54
1730	17.66	-2.02	2190	52.8	3.28	2650	40.56	2.2	4700	36.66	1.29
1740	17.14	-2.09	2200	53.24	3.28	2660	41.18	2	4720	32.05	0.57
1750	17.77	-1.96	2210	54.75	3.28	2670	44.18	2.4	4740	30.17	0.68
1760	20.82	-1.23	2220	52.75	2.98	2680	49.19	2.99	4760	33.74	1.43
1770	25.28	-0.4	2230	51.94	2.76	2690	50.02	3.23	4780	33.67	1.54
1780	26.12	-0.37	2240	52.75	2.66	2700	47.12	2.93	4800	38.01	1.94
1790	29.06	0	2250	54.54	2.83	3300	61.88	4.39	4820	38.82	1.88
1800	31.5	0.28	2260	53.54	2.53	3320	66.31	4.61	4840	38.71	2.03
1810	31.99	0.41	2270	54.71	2.17	3340	63.24	3.84	4860	39.57	2.02
1820	34.72	0.84	2280	58.68	2.45	3360	67.96	3.41	4880	40.93	2.08
1830	35.82	0.99	2290	59.53	2.35	3380	69.26	3.22	4900	41.3	2.26
1840	37.78	1.26	2300	57.34	2.07	3400	73.44	3.9	4920	39.33	2.29
1850	39.97	1.59	2310	56.55	2.34	3420	72.67	4.09	4940	40.65	2.62
1860	29.32	0.26	2320	55.81	2.57	3440	61.75	3.47	4960	41.32	2.71
1870	32.25	0.6	2330	56.99	3.01	3460	47.28	2.48	4980	41.86	2.7
1880	36.5	0.9	2340	55.57	3.3	3480	44.77	2.56	5000	43.78	3.1

5.5 Radiation Pattern

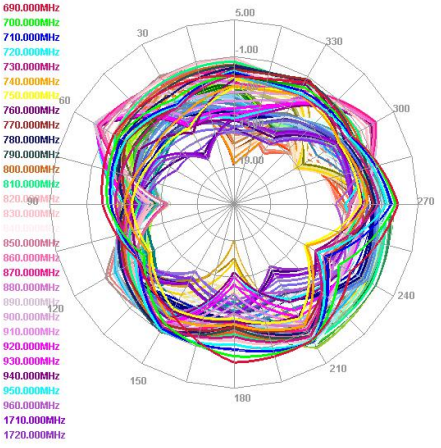
Horizontal



E1 Face



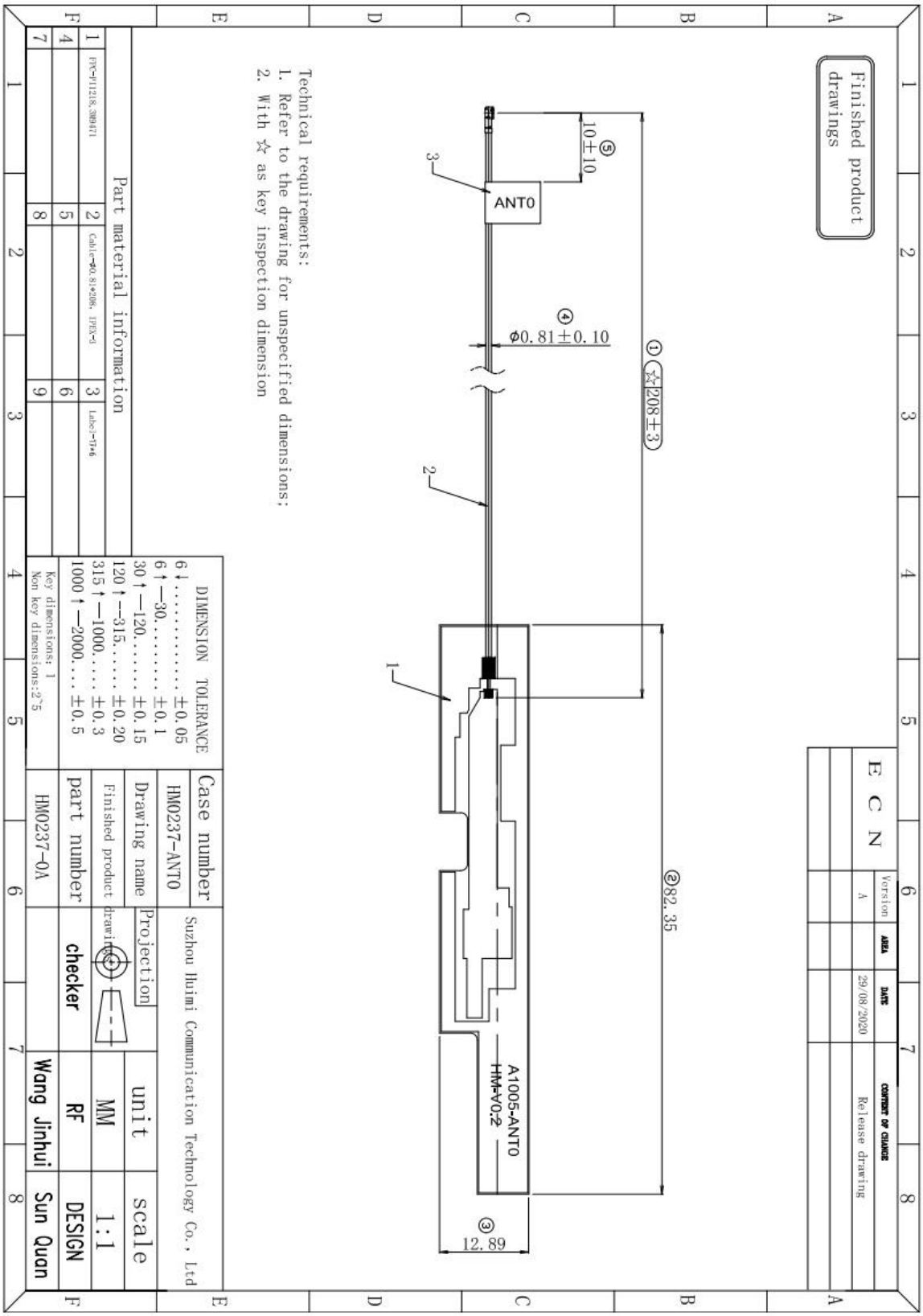
E2 Face



5.6 OTA Test Result

BAND	CH	TRP	TIS	BAND	CH	TRP	TIS
B1	18050	18.02		B28	27260	16.11	
	18300	18.11			27435	16.35	
	18550	17.96	-93.52		27610	16.59	-92.56
B2	18650	18.11		B34	36250	17.89	
	18900	18.32			36275	18.11	
	19150	18.45	-93.12		36300	17.98	-94.12
B3	19250	17.69		B38	37850	17.65	
	19575	17.55			38000	18.11	
	19900	17.48	-92.12		38150	18.01	-93.23
B4	20000	17.66		B39	38350	18.56	
	20175	17.7			38450	18.69	
	20350	18.01	-92.68		38550	18.74	-92.11
B5	20450	16.52		B40	38750	18.25	
	20525	17.02			39150	17.8	
	20600	17.11	-92.77		39550	17.78	-91.36
B7	20800	18.11		B41	39750	18.11	
	21100	18.02			40620	17.65	
	21400	17.86	-93.52		41490	17.59	-92.56
B8	21500	17.74		N77-100M	620000	17.11	
	21625	17.68			650000	17.02	
	21750	17.11	-91.52		680000	17.06	-85.23
B12	23060	16.55		N78-100M	623334	17.52	
	23095	16.23			636666	17.53	
	23130	16.25	-90.65		650000	17.35	-84.89
B20	24200	17.11		N79-100M	696668	17.5	
	24300	17.32			713334	17.85	
	24400	17.25	-91.45		730000	18.01	-85.33

6. Mechanical Drawings



7. Dimension Report

Suzhou Huimi Communication Technology Co., Ltd
Dimension Report

Customer			ZoomSmart			Project Name		A1005		version umber		A	
Supplier P/N			HM0237			ANT Name		ANT0		Date		2022/3/11	
No	Nature	NOMINAL	tolerance		Inspection Method	Sample Number						OK/NG	Remarks
			+TOL	-TOL		1	2	3	4	5			
1	*	208.00	3	3		207.00	207.50	208.00	208.00	208.50		OK	
2		82.35	0.2	0.2		82.46	82.39	82.41	82.43	82.44		OK	
3		12.89	0.2	0.2		13.01	13.05	12.99	12.93	13.02		OK	
4		0.81	0.1	0.1		0.81	0.81	0.81	0.81	0.81		OK	
5		10.00	10	10		15.00	15.00	15.00	15.00	15.00		OK	