SPECIFICATION

深圳市优利麦克科技有限公司

UNIMAXCOMM LTD

ADD:Add: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110

EVOTAB Antenna

Product approval sheet

Applicant	Securus Technologies, LLC	Band	WCDMA/LTE/BT/WIFI 2.4&5G
FCC ID	2AZJPEVOTAB	Colour	Black

Customer check：

Reach requirement of customer：☑OK □NG

Contents

1 General description 3
1.1 information of DUT 3
1.2 Antenna appearing diagram.....4
2 Electrical performance 4
2.1 Passive result.....4
2.11 VSWR BLE antenna 4
2.14 Efficiency &Gain 5
2.2 3D Pattern 5

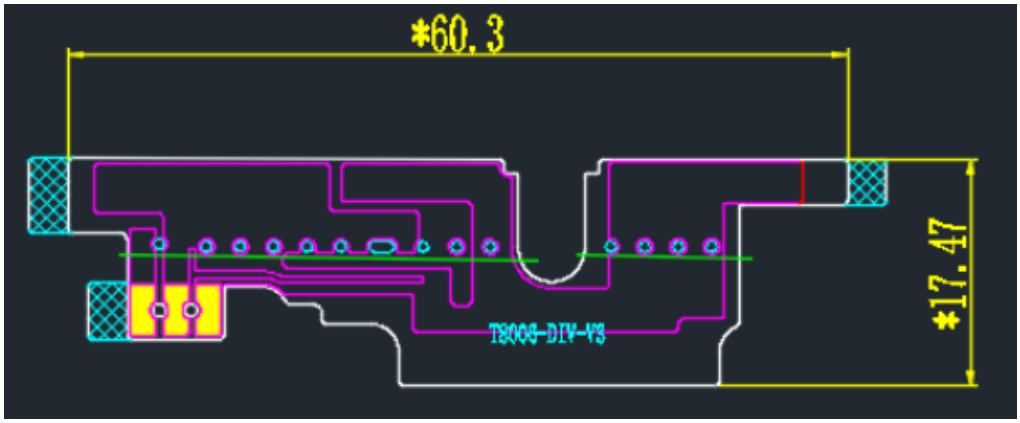
1 General description

1.1 information of DUT

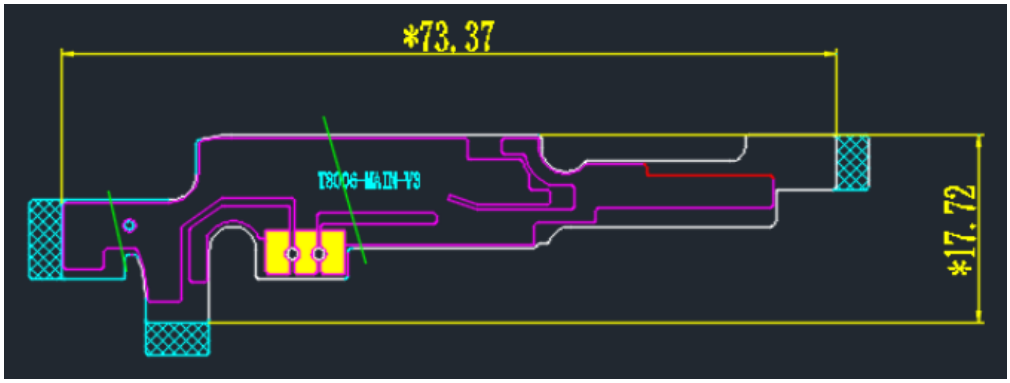
Set Type	Tablet
Dimension	216*137.5*15.7mm
Band	WCDMA B2/4/5; LTE B2/4/5/7/12/13/14/17/18/19/25/26/29/30/41/66/71; BT/WIFI 2.4&5G
Antenna Material	FPC

EUT appearing diagram

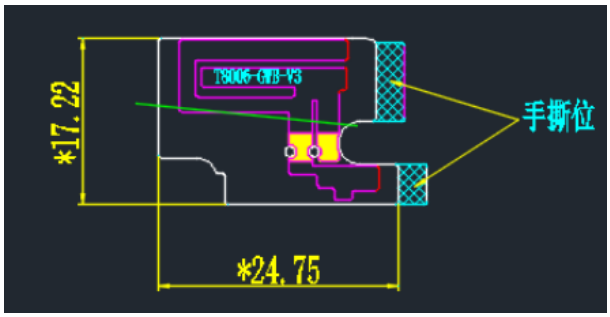
1.2 Antenna appearing diagram



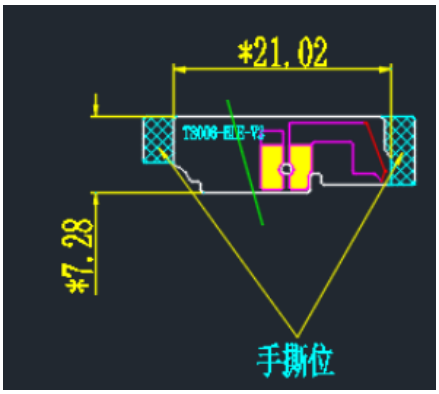
DIV antenna



Main antenna



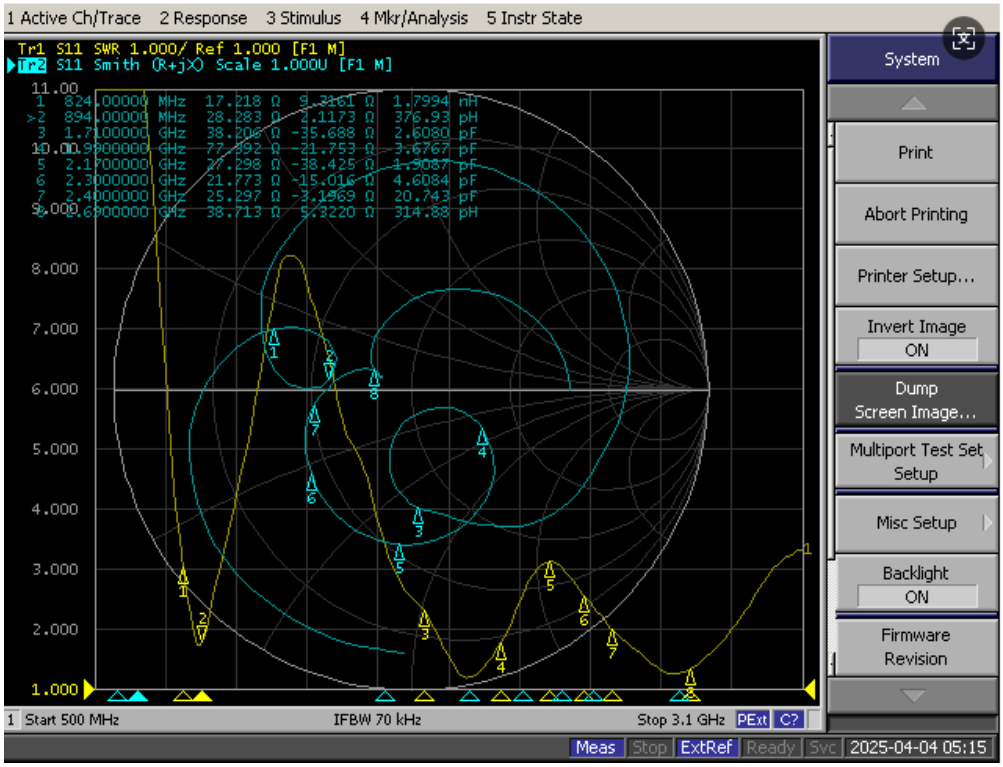
GPS&WIFI antenna



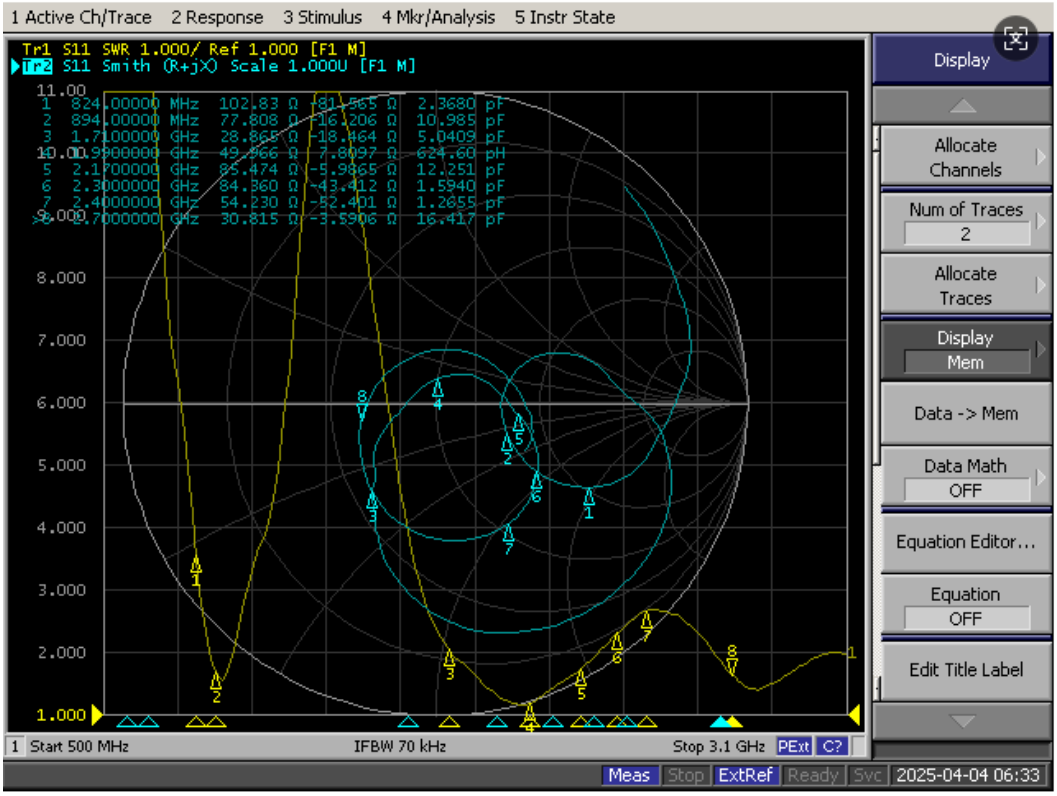
2 Electrical performance

2.1 Passive result

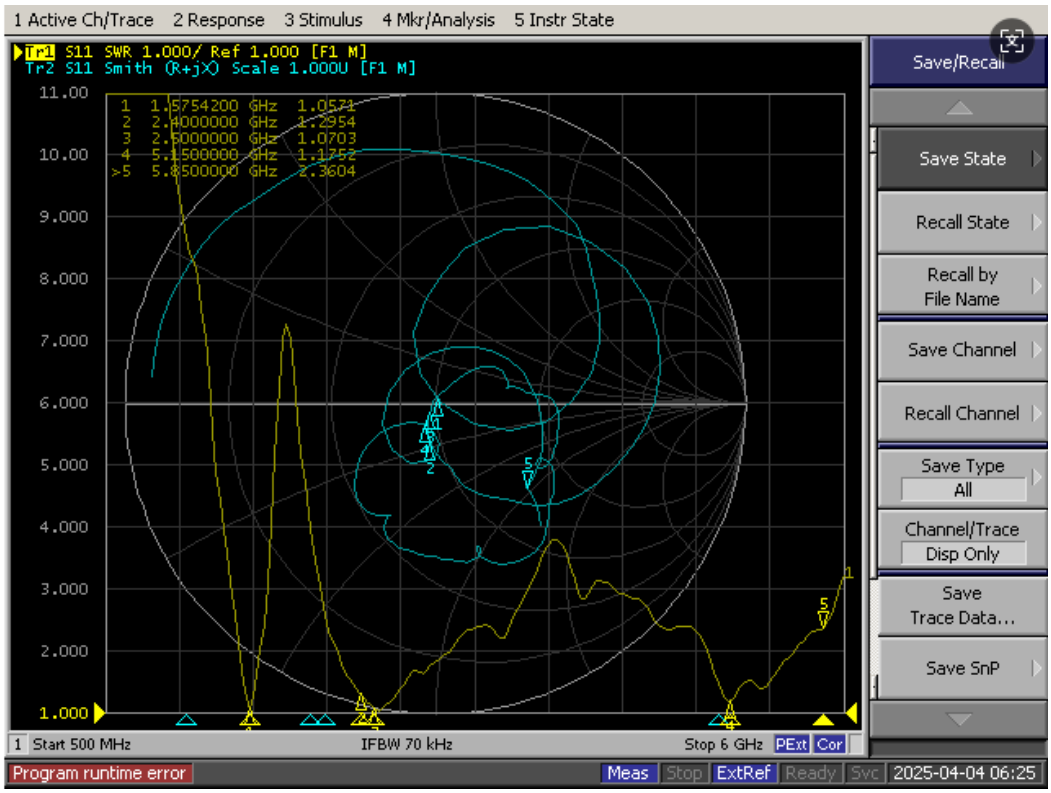
2.11 VSWR Main



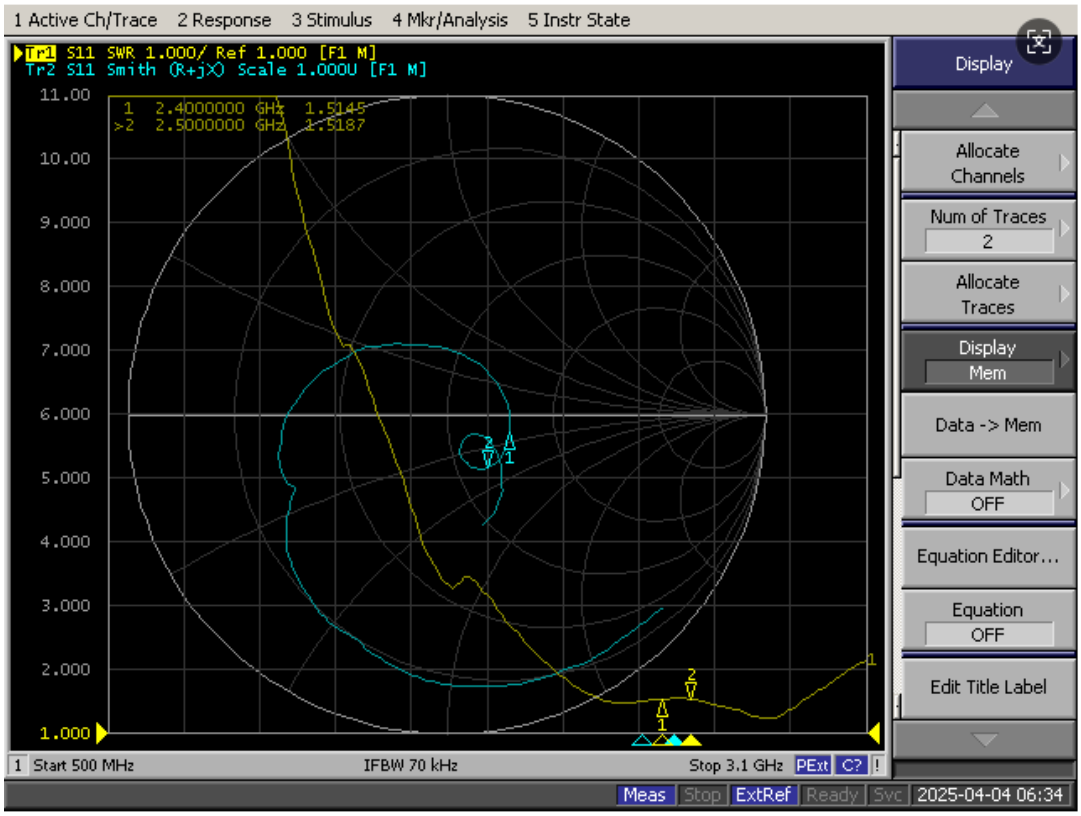
VSWR DIV



VSWR GPS&WIFI



VSWR BLE



2.12 Efficiency &Gain

BLE

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	40.74	-3.9	3.1
2410	41.59	-3.81	3.24
2420	42.36	-3.73	3.23
2430	43.35	-3.63	3.25
2440	43.75	-3.59	3.28
2450	42.95	-3.67	3.36
2460	42.95	-3.67	3.55
2470	43.15	-3.65	3.68
2480	44.16	-3.55	3.13
2490	45.81	-3.39	3.24
2500	46.67	-3.31	3.38

GPS&WIFI

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	59.98	-2.22	3.09	1565	57.68	-2.39	3.99
2410	60.95	-2.15	3.15	1570	62.81	-2.02	4.4
2420	61.24	-2.13	3.32	1575	55.98	-2.52	4.06
2430	62.09	-2.07	3.36	1580	61.24	-2.13	4.49
2440	62.09	-2.07	3.26	1585	54.45	-2.64	4.06

2450	59.84	-2.23	3.27				
2460	59.7	-2.24	3.19				
2470	59.43	-2.26	3.19				
2480	59.29	-2.27	3.27				
2490	59.84	-2.23	3.12				
2500	59.43	-2.26	3.35				
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)				
5160	29.58	-5.29	2.24				
5180	31.41	-5.03	2.3				
5200	31.05	-5.08	2.6				
5220	30.9	-5.1	2.25				
5240	30.41	-5.17	2.27				
5260	33.5	-4.75	2.56				
5280	33.5	-4.75	2.15				
5300	33.96	-4.69	2.29				
5320	34.67	-4.6	2.44				
5340	33.81	-4.71	2.3				
5360	34.36	-4.64	2.36				
5380	33.5	-4.75	2.21				
5400	34.43	-4.63	2.14				
5420	33.88	-4.7	2.5				
5440	33.81	-4.71	2.56				
5460	34.43	-4.63	2.31				
5480	34.28	-4.65	2.02				
5500	35.16	-4.54	1.95				
5520	35.16	-4.54	1.8				
5540	36.06	-4.43	1.96				
5560	36.48	-4.38	2.02				
5580	38.55	-4.14	2.47				
5600	37.84	-4.22	2.53				
5620	36.9	-4.33	2.48				
5640	38.11	-4.19	2.6				
5660	36.64	-4.36	2.47				
5680	36.81	-4.34	2.58				
5700	34.51	-4.62	2.42				
5720	35.73	-4.47	2.58				
5740	34.99	-4.56	2.25				
5760	32.73	-4.85	2.53				
5780	30.27	-5.19	2.3				
5800	31.99	-4.95	2.57				
5820	31.05	-5.08	2.58				
5840	30.13	-5.21	2.56				
5860	28.97	-5.38	2.39				

DIV

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
610	4.08	-13.89	-9.71	760	14.72	-8.32	-2.22
620	5.47	-12.62	-7.79	770	15.24	-8.17	-2.36
630	6.85	-11.64	-6.62	780	17.74	-7.51	-1.89
640	8.95	-10.48	-5.49	790	22.39	-6.5	-0.82
650	11.32	-9.46	-3.36	800	24.21	-6.16	-2.02
660	13.77	-8.61	-1.39	810	25.41	-5.95	-1.49
670	12.5	-9.03	-1.3	820	25.23	-5.98	-1.67
680	10.84	-9.65	-2	830	25.47	-5.94	-1.52
690	11.32	-9.46	-1.63	840	24.83	-6.05	-1.76
700	14.55	-8.37	-0.96	850	24.49	-6.11	-1.81
710	15.14	-8.2	-1.14	860	23.88	-6.22	-1.77
720	12.42	-9.06	-2.26	870	23.07	-6.37	-1.47
730	13.18	-8.8	-3.04	880	22.39	-6.5	-1.54
740	17.74	-7.51	-1.49	890	22.86	-6.41	-1.58
750	16.9	-7.72	-1.75	900	22.59	-6.46	-1.59
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1700	42.27	-3.74	2.91	2220	40.74	-3.9	2.92
1720	48.53	-3.14	3.01	2240	41.78	-3.79	2.69
1740	48.42	-3.15	3.02	2260	43.35	-3.63	2.51
1760	45.92	-3.38	2.41	2280	43.25	-3.64	2.67
1780	46.24	-3.35	2.09	2300	42.66	-3.7	2.92
1800	44.26	-3.54	2.13	2320	43.75	-3.59	3.15
1820	44.87	-3.48	2.41	2340	41.78	-3.79	2.64
1840	44.87	-3.48	2.61	2360	43.25	-3.64	2.61
1860	45.6	-3.41	2.95	2380	45.71	-3.4	2.73
1880	45.08	-3.46	2.98	2400	44.98	-3.47	2.61
1900	45.5	-3.42	2.69	2420	48.08	-3.18	2.98
1920	50.82	-2.94	2.61	2440	47.75	-3.21	3.01
1940	48.19	-3.17	2.1	2460	42.17	-3.75	2.36
1960	42.76	-3.69	1.51	2480	42.95	-3.67	2.72
1980	40.36	-3.94	1.43	2500	44.57	-3.51	2.66
2000	39.81	-4	1.6	2520	44.87	-3.48	2.52
2020	36.31	-4.4	1.34	2540	49.09	-3.09	2.79
2040	38.11	-4.19	2.21	2560	47.75	-3.21	2.68
2060	37.93	-4.21	2.46	2580	48.08	-3.18	3.01
2080	37.58	-4.25	2.34	2600	48.08	-3.18	3.31
2100	38.28	-4.17	2.06	2620	45.92	-3.38	3.03
2120	36.98	-4.32	2.09	2640	43.55	-3.61	2.78
2140	35.48	-4.5	2.13	2660	42.85	-3.68	2.75
2160	40.36	-3.94	2.51	2680	41.21	-3.85	2.82
2180	42.07	-3.76	2.61	2700	40.09	-3.97	2.82
2200	42.27	-3.74	3.01	2220	40.74	-3.9	2.92

Main

B28/B17

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	37.58	-4.25	1.62
710	39.08	-4.08	1.58
720	46.67	-3.31	1.5
730	47.75	-3.21	1.82
740	47.32	-3.25	2.64
750	49.43	-3.06	2.55
760	51.4	-2.89	2.69
770	53.09	-2.75	1.95
780	47.64	-3.22	0.61
790	44.16	-3.55	0.78
800	40.36	-3.94	0.37

B12

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
650	45.06	-3.46	1.52
660	46.81	-3.3	1.52
670	45.95	-3.38	1.29
680	44.82	-3.48	1.18
690	46.08	-3.36	1.48
700	46.53	-3.32	1.31
710	46.65	-3.31	1.24
720	44.4	-3.53	0.9
730	43.65	-3.6	0.67
740	42.28	-3.74	0.38
750	41.28	-3.84	0.4

B71

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
610	24.6	-6.09	-1.5
620	26.61	-5.75	-1.18
630	29.85	-5.25	0.31
640	35.16	-4.54	2.26
650	37.15	-4.3	2.77
660	35.89	-4.45	2.12
670	30.48	-5.16	2.13
680	27.35	-5.63	2.26
690	26.42	-5.78	2.25
700	24.83	-6.05	1.48

B18/19/20/B7

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
810	45.75	-3.4	1.01
820	50.99	-2.93	1.05
830	52.23	-2.82	1.04
840	54.21	-2.66	1.57
850	51.03	-2.92	1.35
860	54.3	-2.65	1.71
870	56.77	-2.46	1.25
880	54.63	-2.63	1.76
2500	52.68	-2.78	3.18
2510	50.84	-2.94	3.59
2520	48.96	-3.1	3.77
2530	50.15	-3	3.89
2540	49.56	-3.05	4.01
2550	49.7	-3.04	3.47
2560	51.57	-2.88	3.69
2570	53.59	-2.71	3.77
2580	51.37	-2.89	3.7
2590	48.23	-3.17	3.26
2600	48.51	-3.14	3.06

B5/26/B2/4/41/66

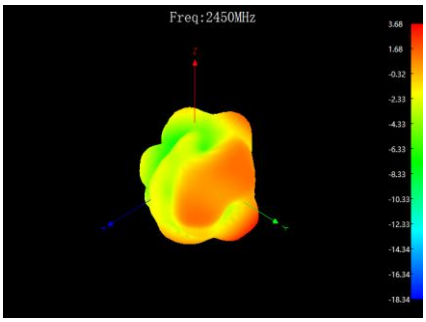
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)				
820	42.36	-3.73	1.05				
830	47.42	-3.24	1.02				
840	52.36	-2.81	1.37				
850	57.54	-2.4	1.27				
860	62.37	-2.05	1.14				
870	64.71	-1.89	1.14				
880	58.88	-2.3	1.37				
890	53.33	-2.73	0.95				
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1700	47.53	-3.23	2.31	2220	39.63	-4.02	2.65
1720	52.97	-2.76	2.25	2240	40.18	-3.96	2.76
1740	55.34	-2.57	2.78	2260	43.35	-3.63	3.06
1760	53.33	-2.73	2.71	2280	40.83	-3.89	2.51
1780	58.08	-2.36	2.55	2300	39.81	-4	2.32

1800	61.09	-2.14	3.47	2320	40.27	-3.95	2.33
1820	61.94	-2.08	3.92	2340	36.48	-4.38	1.83
1840	62.52	-2.04	4.31	2360	39.9	-3.99	2.17
1860	62.37	-2.05	4.14	2380	43.75	-3.59	2.15
1880	60.95	-2.15	4.01	2400	44.77	-3.49	1.77
1900	59.57	-2.25	4.31	2420	48.98	-3.1	2.37
1920	66.37	-1.78	4.11	2440	49.2	-3.08	2.58
1940	62.37	-2.05	4.1	2460	44.87	-3.48	2.51
1960	55.59	-2.55	3.59	2480	47.86	-3.2	3.16
1980	53.7	-2.7	3.51	2500	50.7	-2.95	3.69
2000	51.17	-2.91	3.08	2520	51.76	-2.86	3.89
2020	45.39	-3.43	1.97	2540	56.75	-2.46	3.51
2040	48.53	-3.14	2.24	2560	55.59	-2.55	3.58
2060	46.77	-3.3	1.93	2580	55.72	-2.54	3.99
2080	47.1	-3.27	1.96	2600	57.94	-2.37	3.23
2100	47.75	-3.21	2.25	2620	54.95	-2.6	3.89
2120	42.95	-3.67	1.97	2640	53.46	-2.72	3.72
2140	39.26	-4.06	2.04	2660	54.58	-2.63	3.79
2160	42.07	-3.76	2.52	2680	52.84	-2.77	3.97
2180	41.02	-3.87	2.68	2700	51.52	-2.88	3.23
2200	41.78	-3.79	2.92				

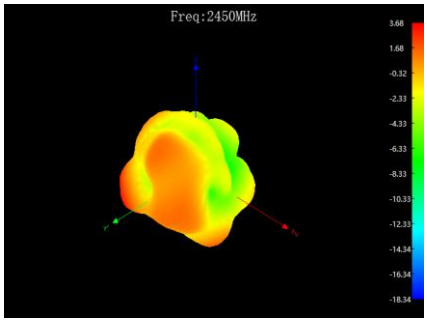
2.2 3D Pattern

BLE

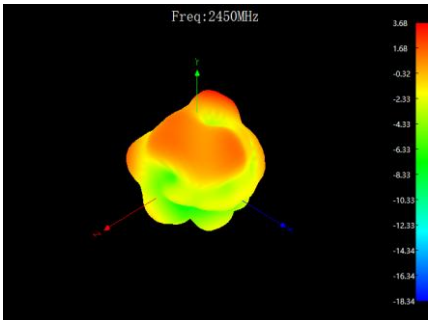
H plane



E1 plane

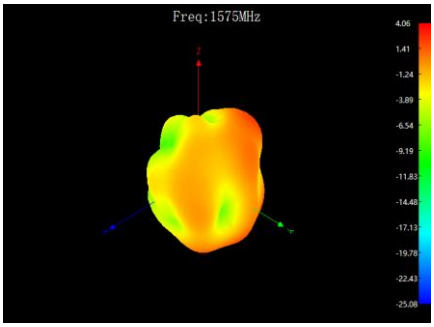


E2 plane

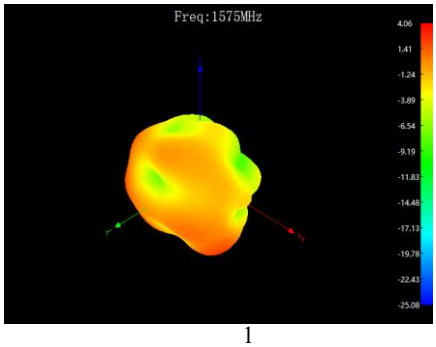


GPS&WIFI

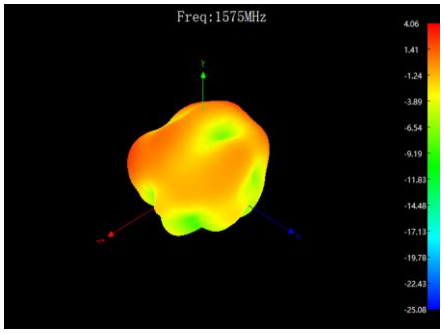
H plane

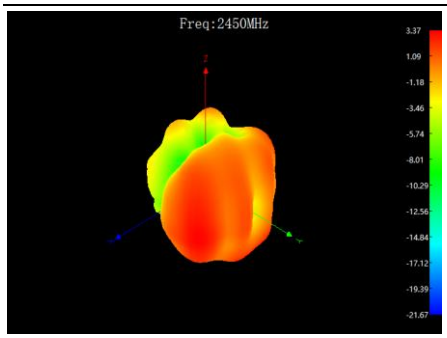


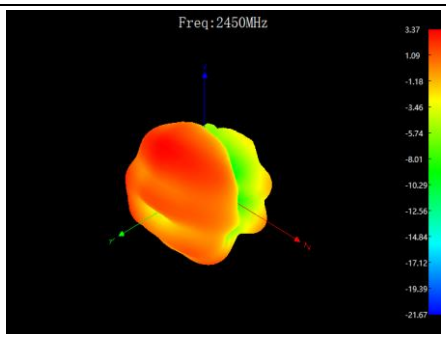
E1 plane

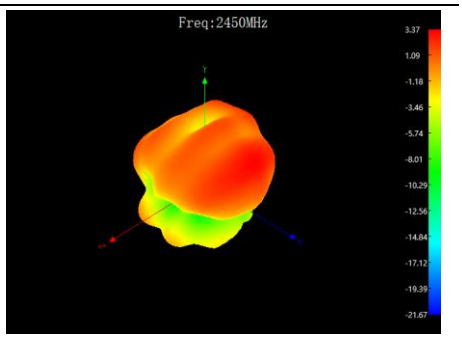


E2 plane

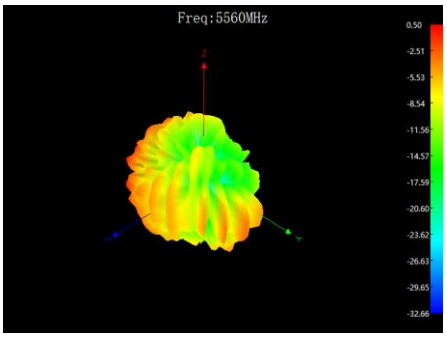


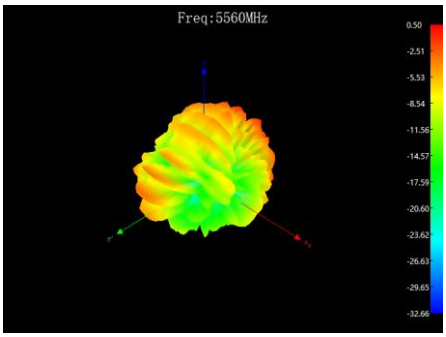


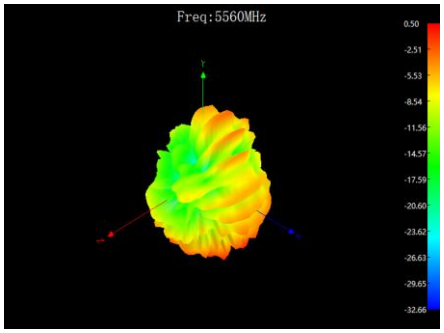




H plane **E1 plane** **E2 plane**

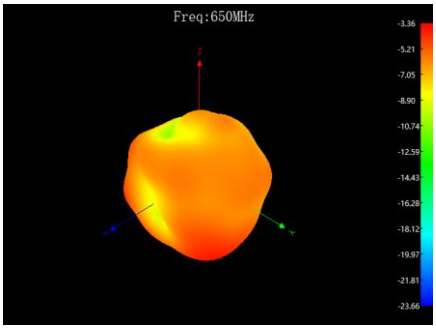


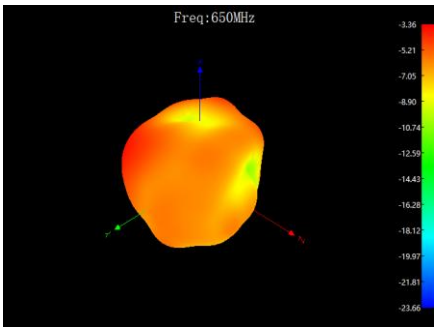


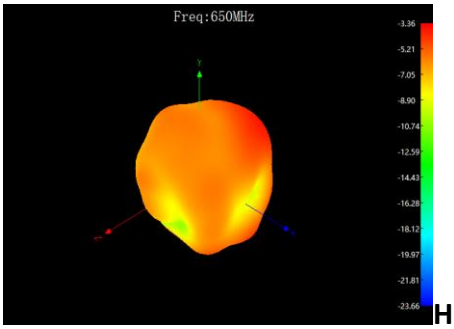


DIV

H plane **E1 plane** **E2 plane**

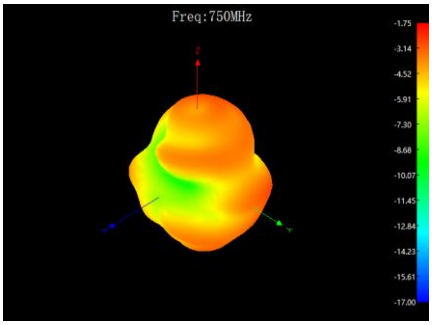


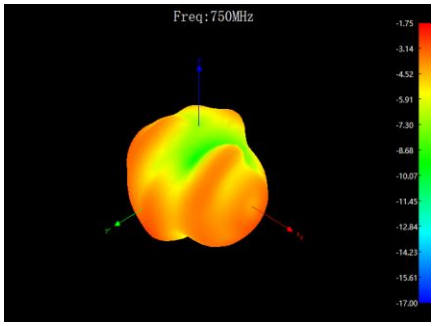


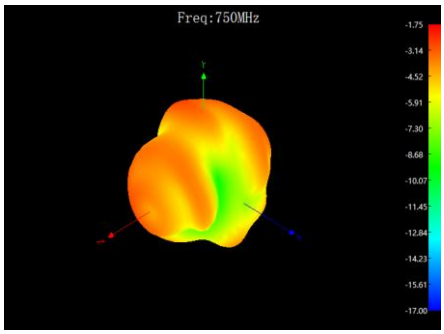


H

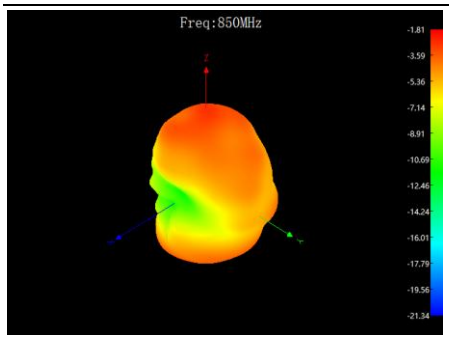
H plane **E1 plane** **E2 plane**

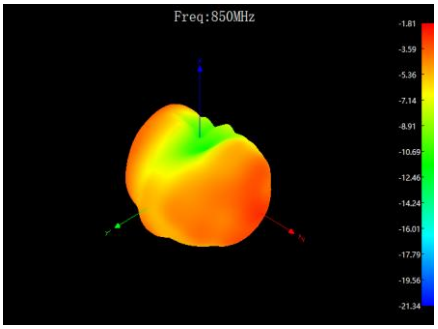


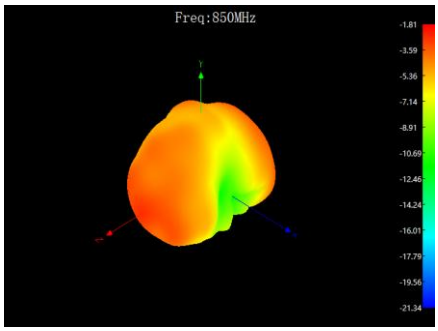




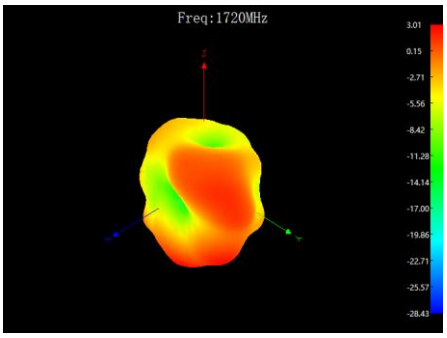
H plane **E1 plane** **E2 plane**

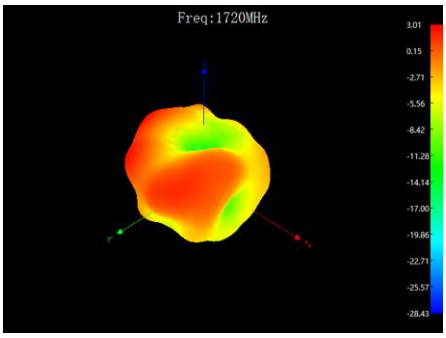


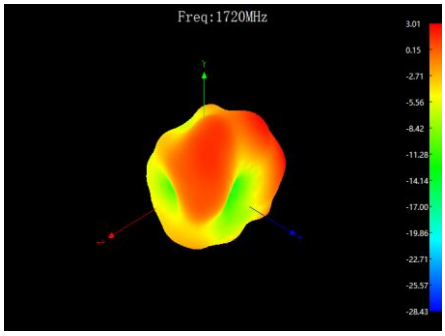




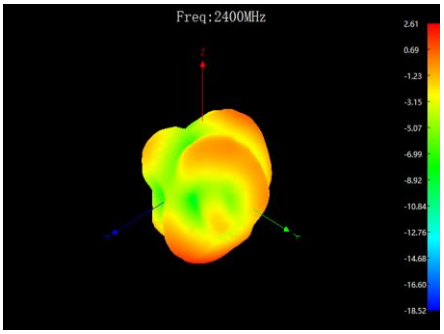
H plane **E1 plane** **E2 plane**

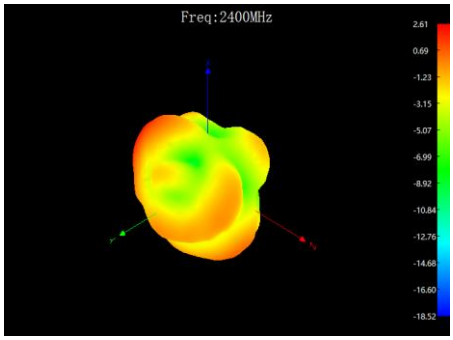


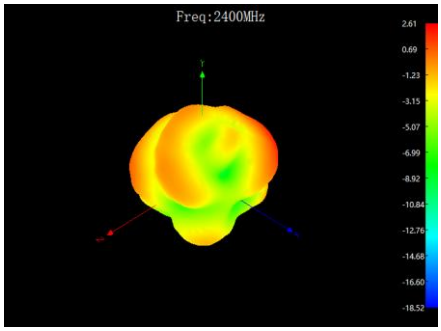




H plane **E1 plane** **E2 plane**

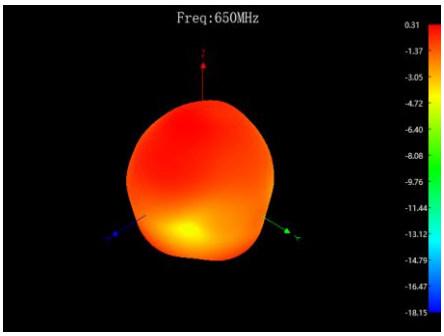


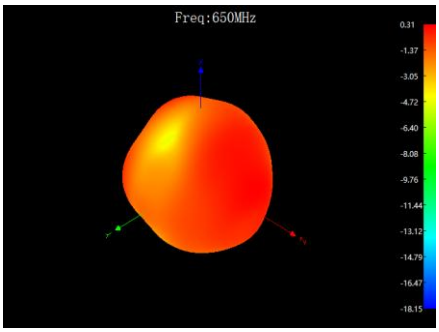


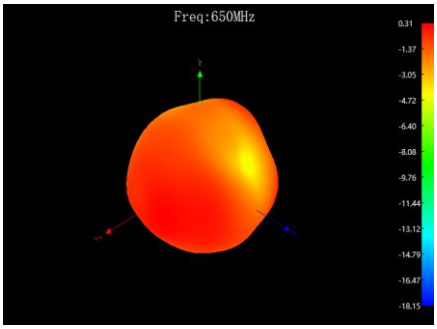


Main

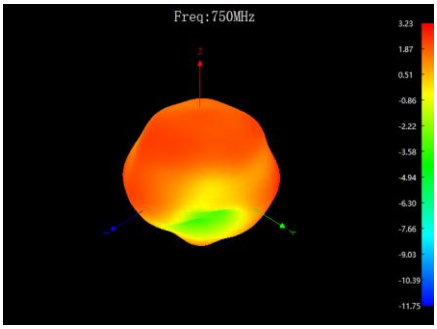
H plane **E1 plane** **E2 plane**

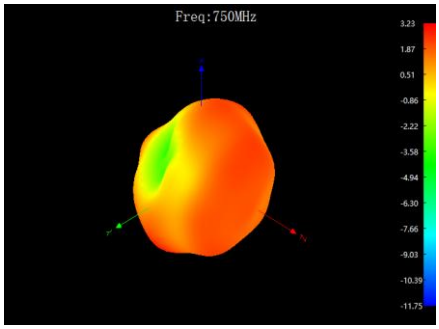


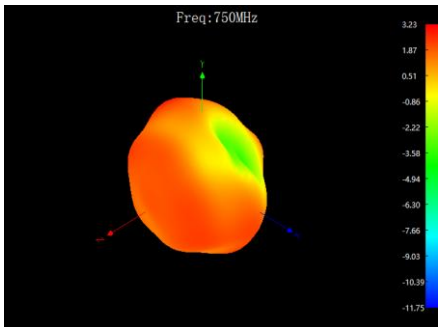




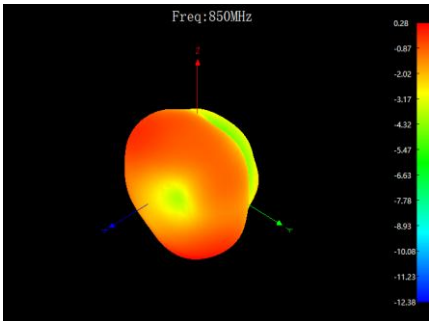
H plane **E1 plane** **E2 plane**



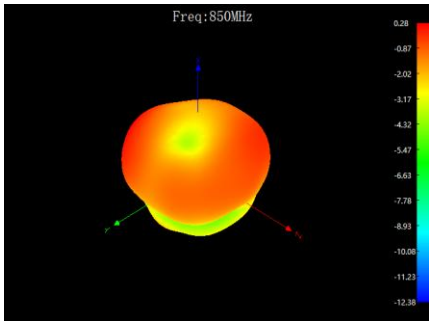




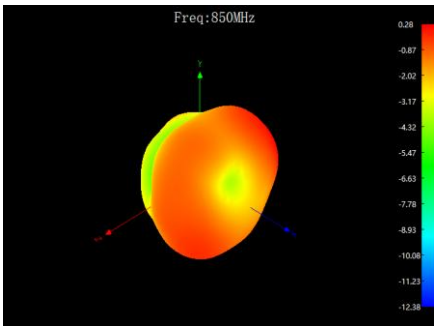
H plane



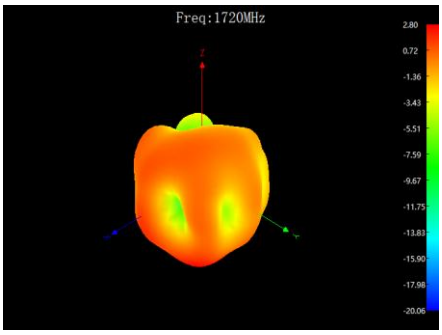
E1 plane



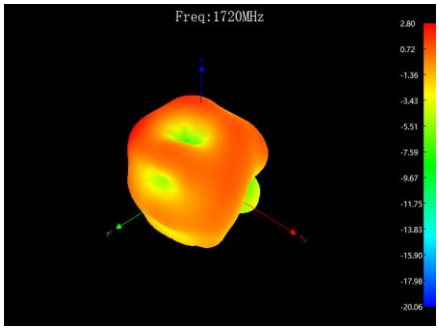
E2 plane



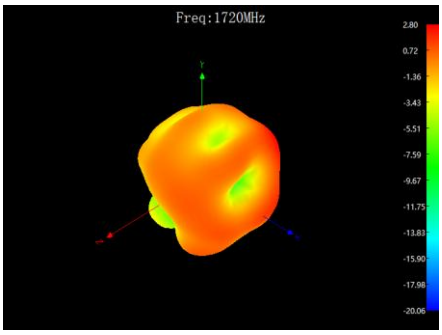
H plane



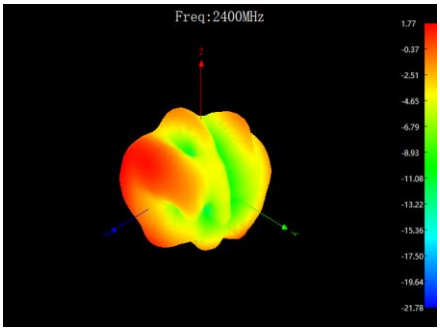
E1 plane



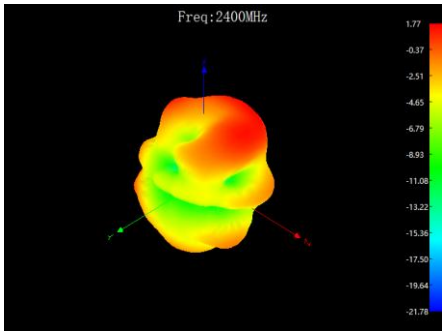
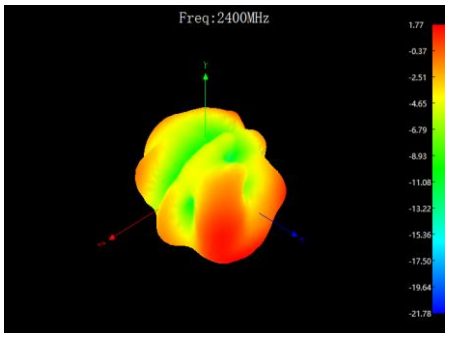
E2 plane



H plane



E1 plane



E2 plane