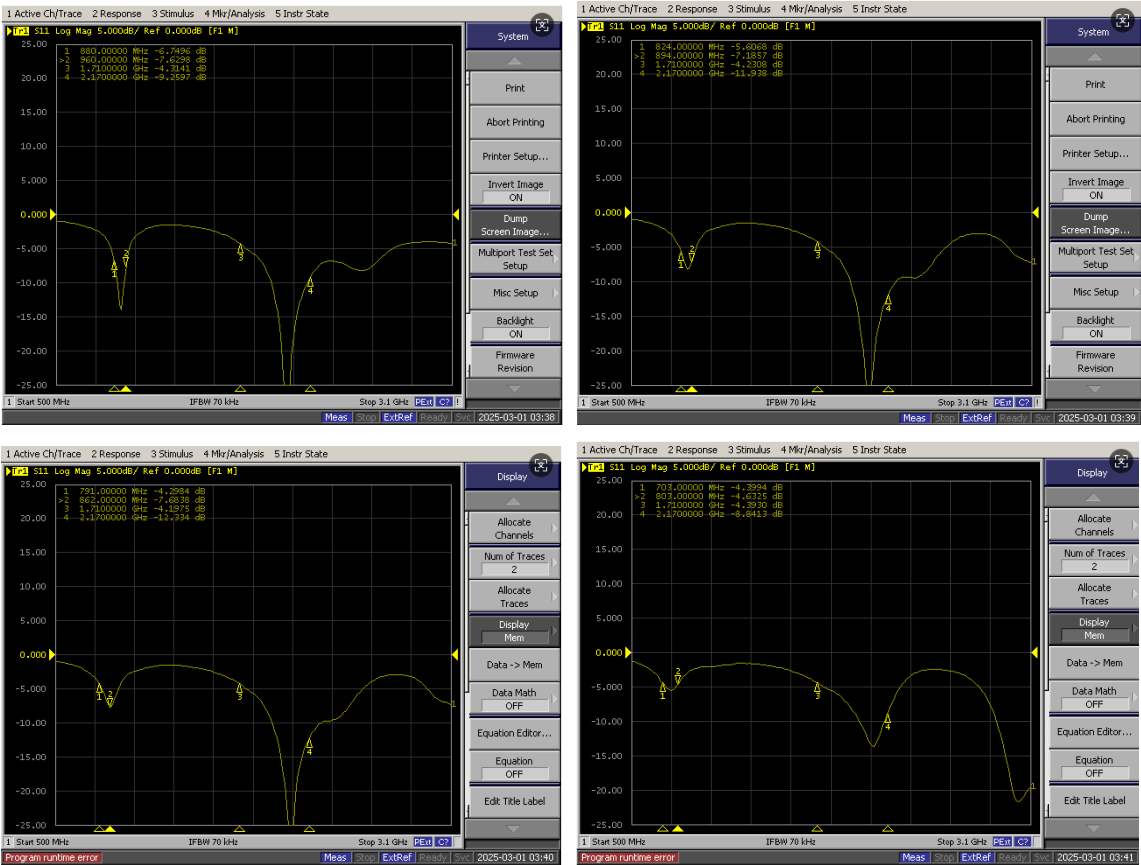


1. Overview

This report contains the basic parameters and performance of the Kai cheng 2558 and 2528 project antenna (version v0.1)

2. antenna Test Data

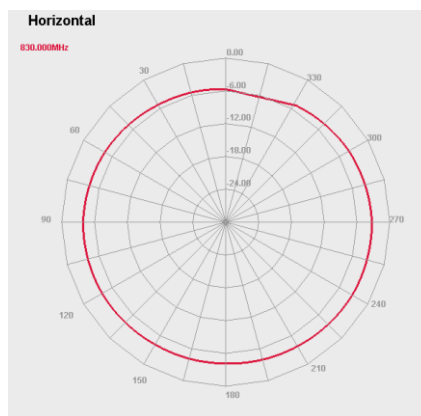
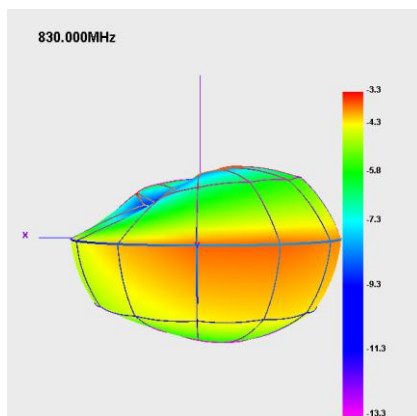
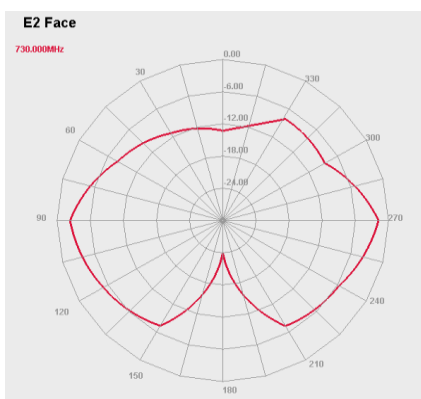
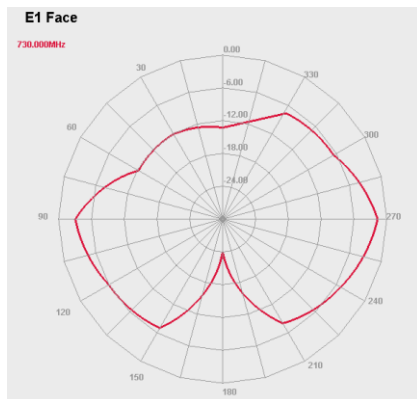
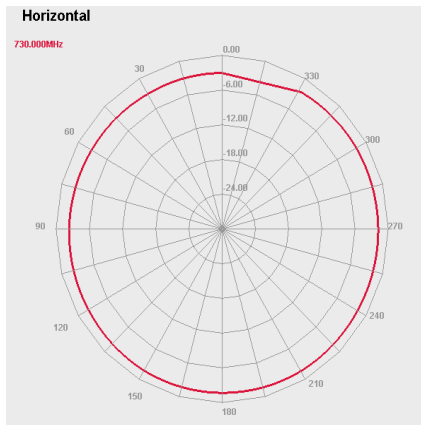
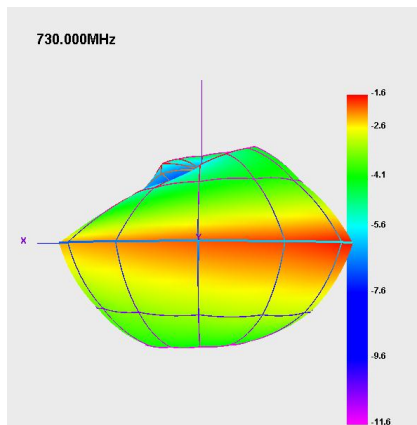
(main antenna)

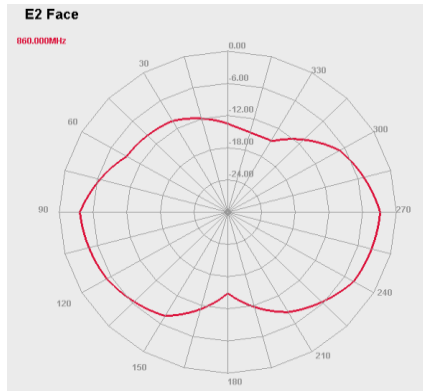
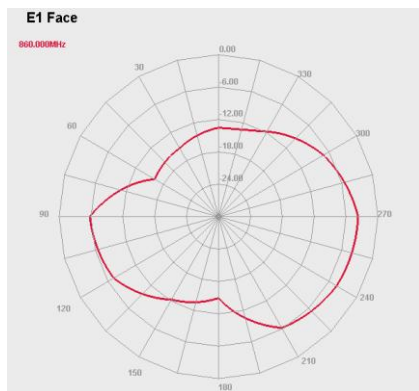
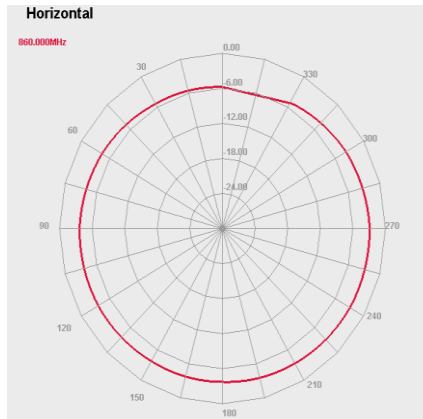
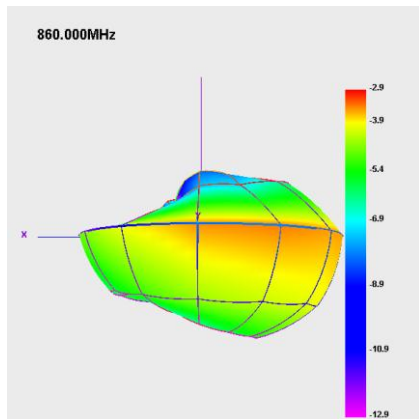
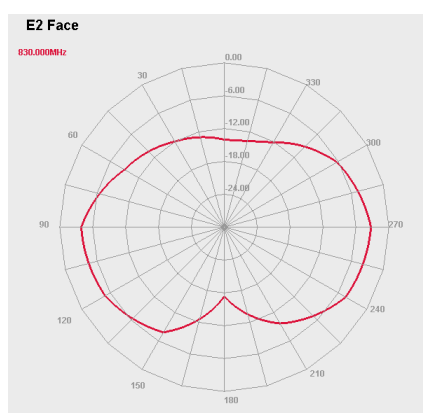
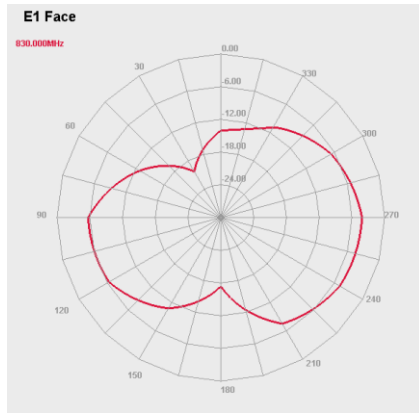


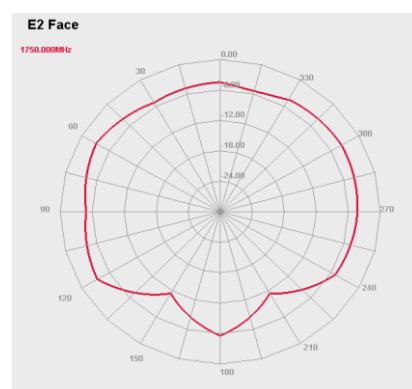
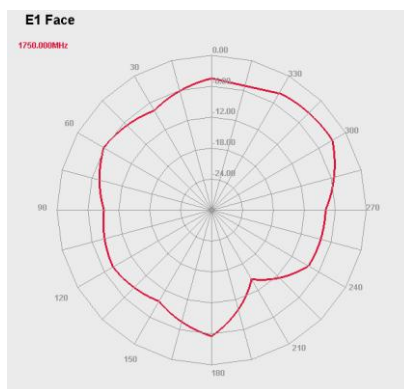
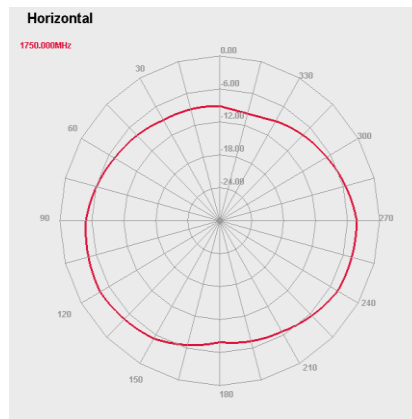
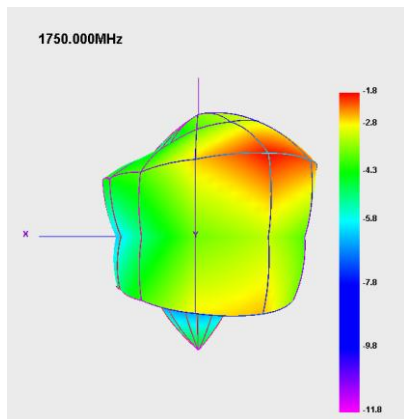
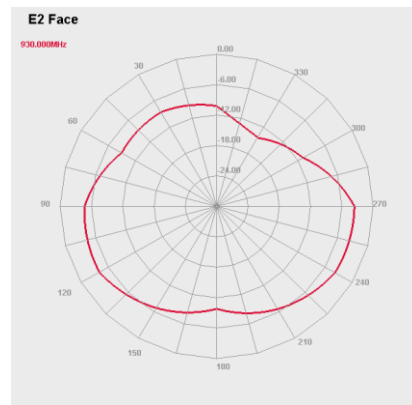
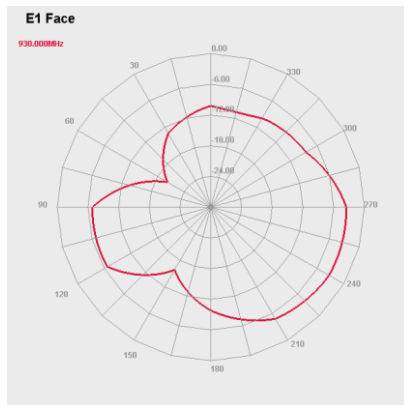
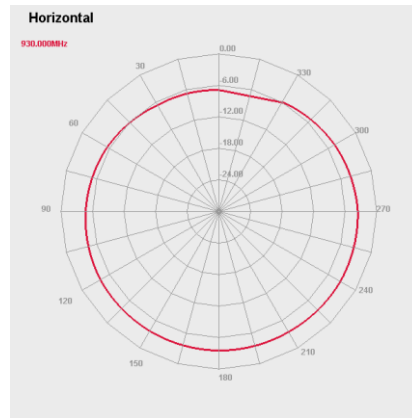
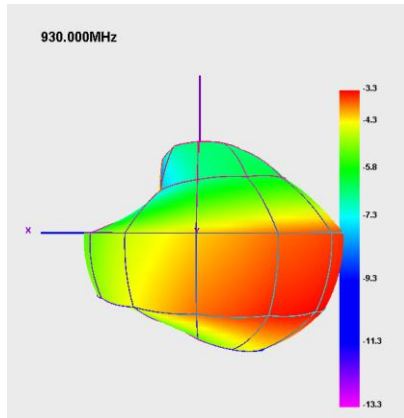
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
880	16.61	-7.8	-4.94	1900	39.48	-4.04	-0.87
890	18.58	-7.31	-4.35	1910	40.42	-3.93	-0.82
900	21.14	-6.75	-3.86	1920	41.04	-3.87	-0.86
910	23.21	-6.34	-3.28	1930	43.55	-3.61	-0.62
920	24.46	-6.11	-3.14	1940	44.36	-3.53	-0.56
930	23.44	-6.3	-3.31	1950	45.85	-3.39	-0.34
940	22.89	-6.4	-3.2	1960	45.91	-3.38	-0.22
950	22.65	-6.45	-2.98	1970	46.67	-3.31	-0.04
960	19.66	-7.06	-3.33	1980	47.68	-3.22	0.14
				1990	48.45	-3.15	0.21
1710	25.06	-6.01	-2.44	2000	47.87	-3.2	0.22
1720	26.75	-5.73	-1.9	2010	47.79	-3.21	0.28
1730	26.76	-5.72	-1.92	2020	45.34	-3.44	0.04
1740	26.73	-5.73	-1.88	2030	44.74	-3.49	-0.12
1750	27.12	-5.67	-1.81	2040	45.26	-3.44	-0.07
1760	27.96	-5.53	-1.87	2050	45.95	-3.38	0
1770	31.81	-4.97	-1.23	2060	49.51	-3.05	0.27
1780	33.59	-4.74	-1.13	2070	51.43	-2.89	0.51
1790	34.13	-4.67	-1.15	2080	47.09	-3.27	0.25
1800	34.64	-4.6	-1.22	2090	45.28	-3.44	0.07
1810	33.87	-4.7	-1.47	2100	43.55	-3.61	0.05
1820	34.02	-4.68	-1.37	2110	36.14	-4.42	-0.47
1830	35.32	-4.52	-1.26	2120	34.17	-4.66	-0.65
1840	35.34	-4.52	-1.3	2130	31.44	-5.02	-0.97
1850	36.44	-4.38	-1.29	2140	30.02	-5.23	-1.22
1860	36.67	-4.36	-1.24	2150	28.57	-5.44	-1.52
1870	36.98	-4.32	-1.16	2160	26.81	-5.72	-1.64
1880	39.19	-4.07	-0.89	2170	25.19	-5.99	-1.86
1890	39.32	-4.05	-0.8				

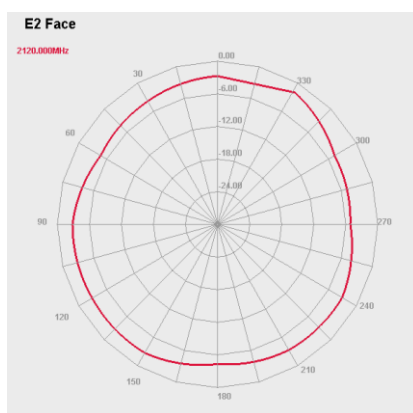
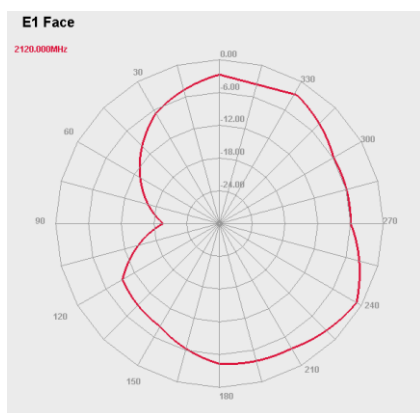
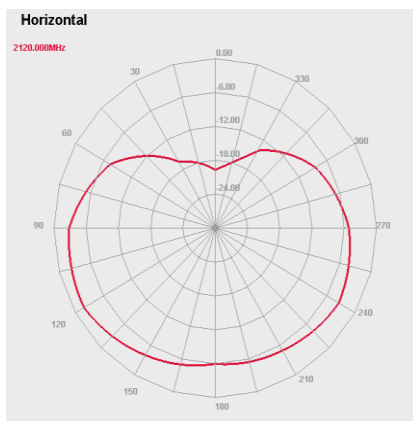
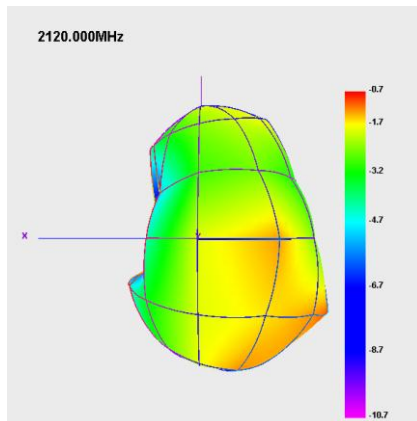
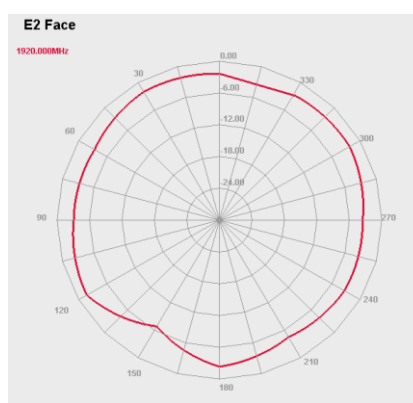
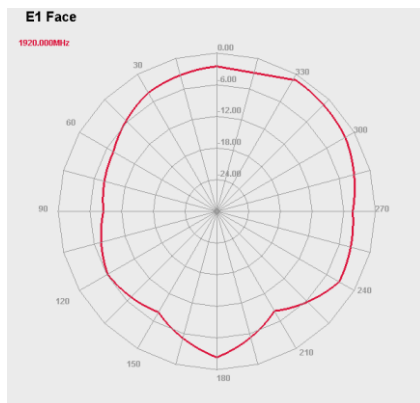
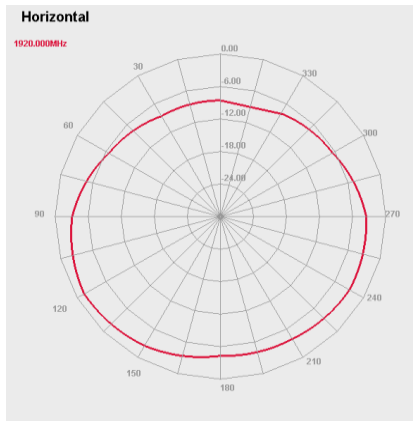
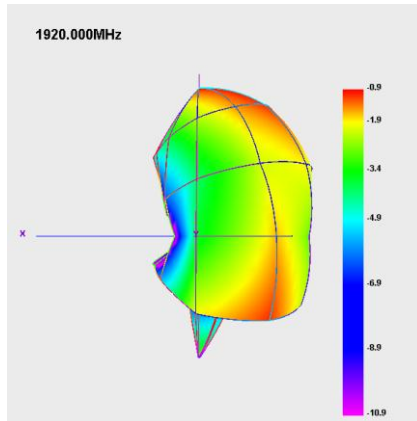
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
820	24.36	-6.13	-3.1
830	22.87	-6.41	-3.22
840	22.41	-6.5	-3.13
850	21.5	-6.68	-3.2
860	23.03	-6.38	-2.89
870	23.32	-6.32	-2.74
880	25.28	-5.97	-2.45
890	25.97	-5.86	-2.18

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	19.96	-7	-3.46
710	24.89	-6.04	-2.33
720	27.3	-5.64	-2.01
730	29.68	-5.28	-1.61
740	30.61	-5.14	-1.64
750	29.49	-5.3	-1.9
760	29.55	-5.29	-1.99
770	26.7	-5.73	-2.56
780	25.08	-6.01	-2.94
790	24.19	-6.16	-3.2
800	24.86	-6.05	-3

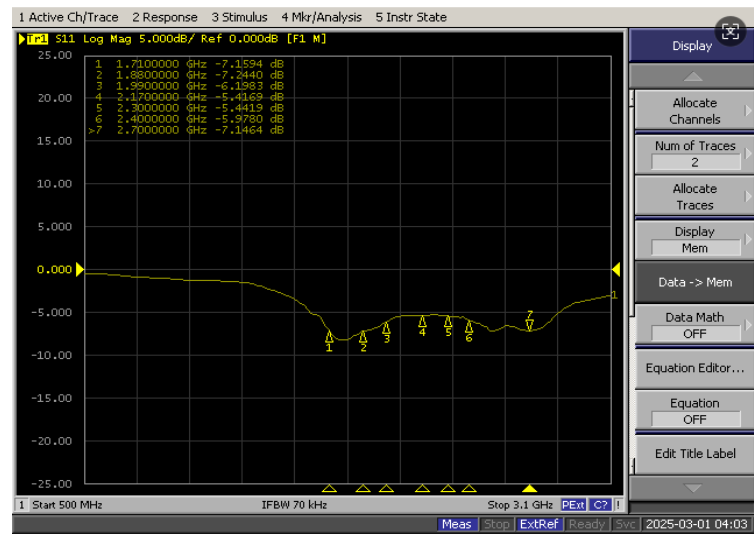




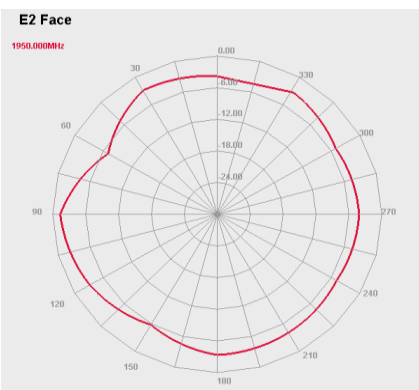
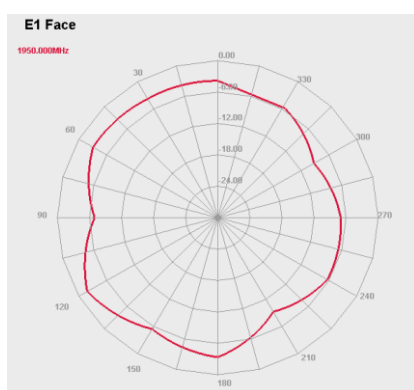
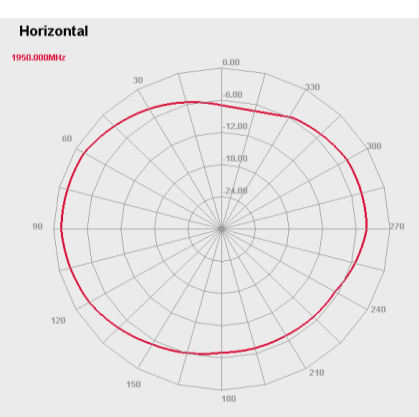
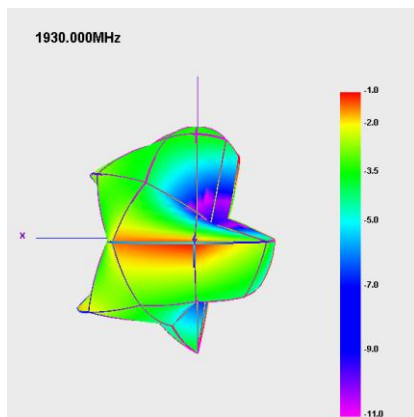
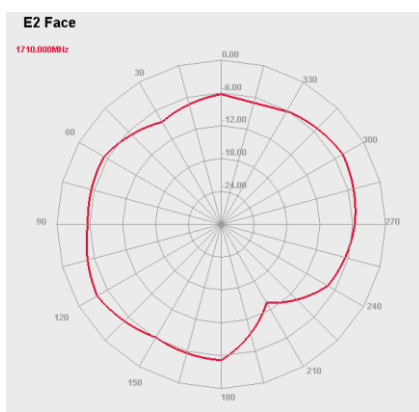
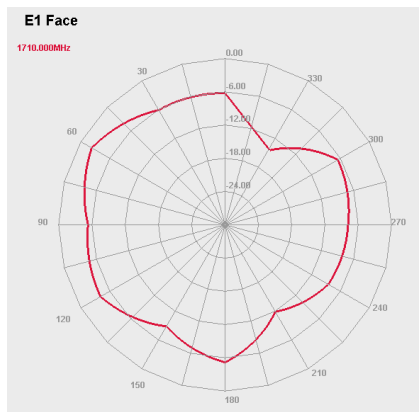
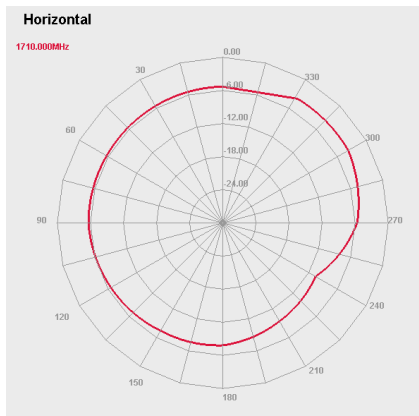
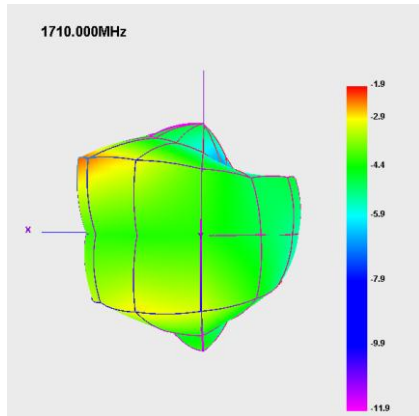


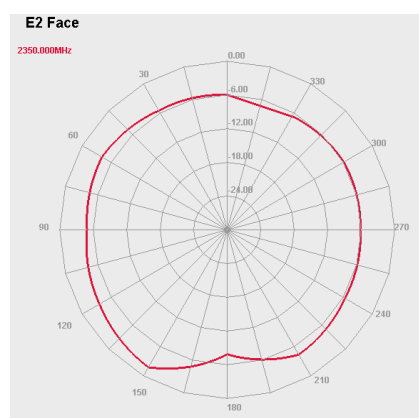
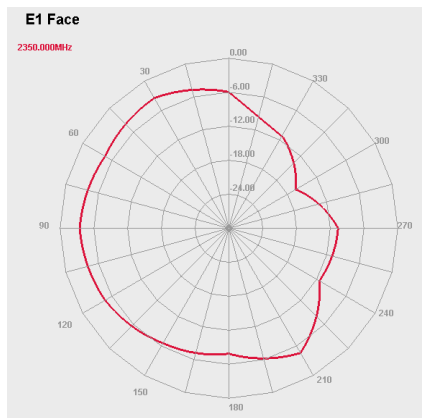
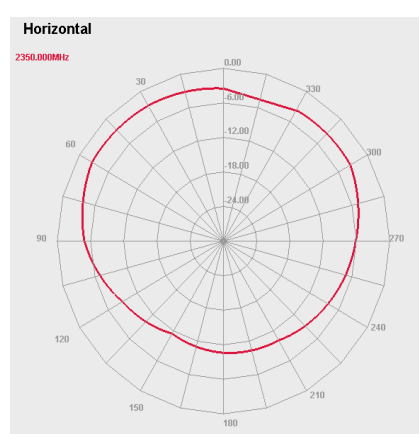
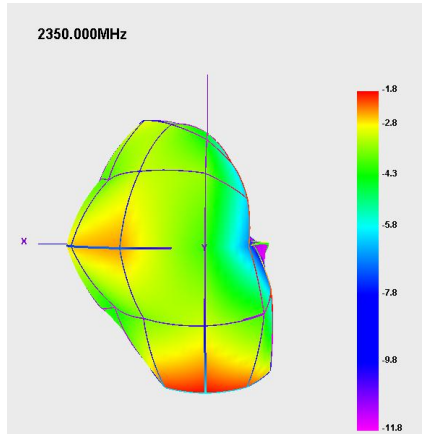
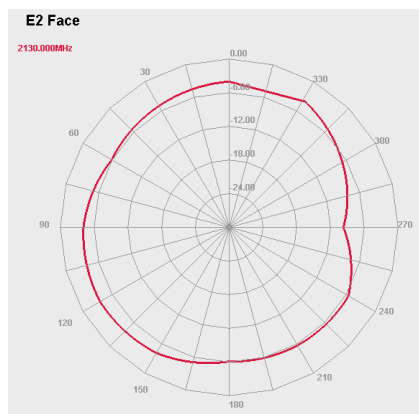
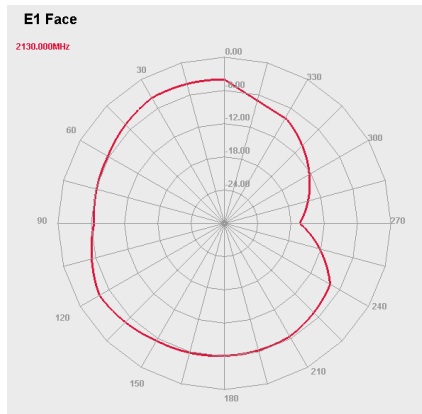
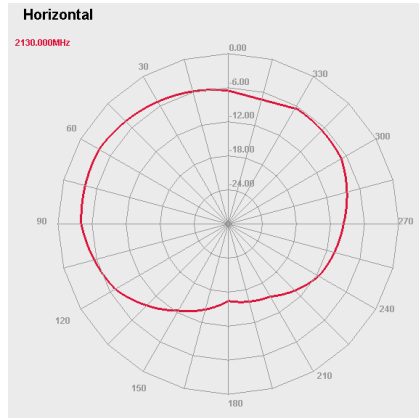
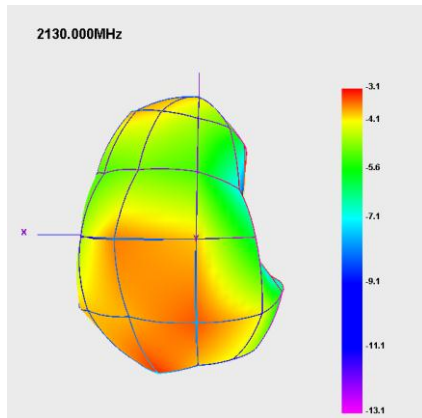


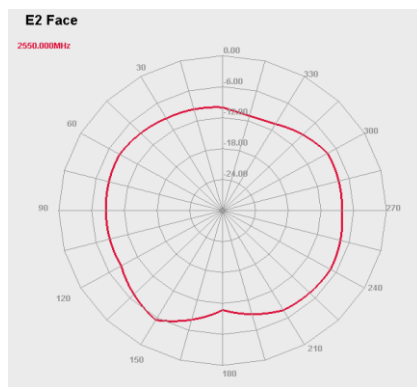
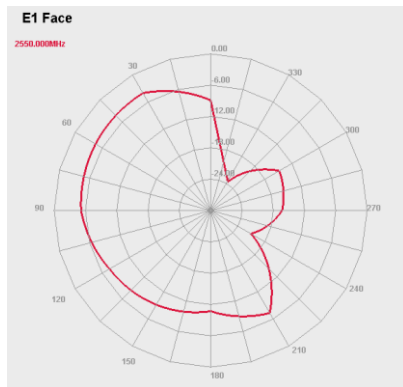
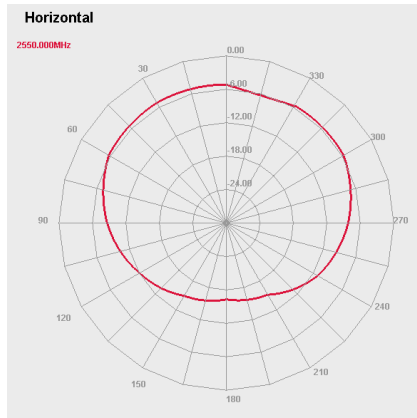
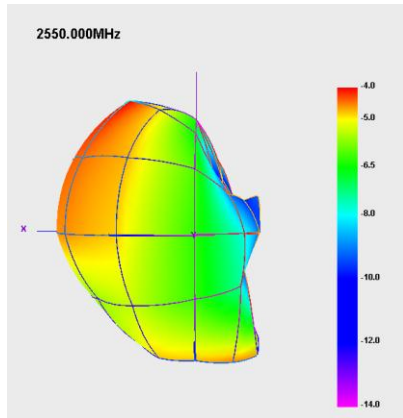
(Diversity Antenna)



Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	25.2	-5.99	-1.87	2140	25.02	-6.02	-2.97
1720	29.26	-5.34	-0.94	2150	23.52	-6.28	-3.36
1730	29.46	-5.31	-1.07	2160	22.16	-6.54	-3.49
1740	29.85	-5.25	-0.83	2170	22.41	-6.5	-3.37
1750	32.88	-4.83	-0.59	2300	23.64	-6.26	-2.82
1760	34.05	-4.68	-0.2	2310	22.73	-6.43	-2.97
1770	37.1	-4.31	0.23	2320	22.68	-6.44	-2.82
1780	36.48	-4.38	0.11	2330	25.15	-5.99	-2.28
1790	34.12	-4.67	-0.33	2340	27.83	-5.55	-1.8
1800	35	-4.56	-0.16	2350	27.95	-5.54	-1.76
1810	36.35	-4.39	-0.07	2360	26.51	-5.77	-2.19
1820	34.83	-4.58	-0.28	2370	22.91	-6.4	-2.36
1830	35.17	-4.54	-0.53	2380	25.54	-5.93	-2.27
1840	32.74	-4.85	-0.94	2390	26.25	-5.81	-1.58
1850	32.18	-4.92	-1.36	2400	27.13	-5.66	-1.49
1860	34.64	-4.6	-1.22	2410	24.88	-6.04	-1.91
1870	35.2	-4.54	-1.45	2420	24.82	-6.05	-2.16
1880	35.19	-4.54	-1.65	2430	24.95	-6.03	-1.96
1890	34.31	-4.65	-1.72	2440	26.53	-5.76	-1.9
1900	33.25	-4.78	-1.81	2450	24.81	-6.05	-2.31
1910	34.58	-4.61	-1.63	2460	24.05	-6.19	-2.64
1920	37.16	-4.3	-1.32	2470	21.2	-6.74	-3.4
1930	37.01	-4.32	-0.96	2480	20.39	-6.91	-3.66
1940	35.93	-4.44	-0.98	2490	19.3	-7.14	-3.77
1950	35	-4.56	-1.37	2500	24.96	-6.03	-2.73
1960	33.89	-4.7	-1.51	2510	21.72	-6.63	-3.37
1970	34.95	-4.57	-1.37	2520	19.35	-7.13	-3.64
1980	34.99	-4.56	-1.53	2530	18.22	-7.39	-3.48
1990	33.36	-4.77	-1.8	2540	16.9	-7.72	-3.76
2000	32.64	-4.86	-2.04	2550	15.76	-8.03	-3.95
2010	30.65	-5.14	-2.13	2560	13.82	-8.59	-4.36
2020	29.14	-5.35	-2.39	2570	12.32	-9.1	-4.99
2030	28.95	-5.38	-2.36	2580	11.07	-9.56	-5.67
2040	27.15	-5.66	-2.44	2590	11.15	-9.53	-5.77
2050	26.48	-5.77	-2.61	2600	11.35	-9.45	-5.66
2060	27.57	-5.6	-2.56	2610	11.63	-9.34	-5.63
2070	29.33	-5.33	-2.71	2620	11.35	-9.45	-5.72
2080	29.98	-5.23	-2.46	2630	12.07	-9.18	-5.57
2090	30.31	-5.18	-2.53	2640	13.99	-8.54	-5.16
2100	28.79	-5.41	-2.75	2650	15.1	-8.21	-4.81
2110	25.72	-5.9	-3.28	2660	14.09	-8.51	-5.02
2120	24.39	-6.13	-3.33	2670	14.33	-8.44	-4.97
2130	24.6	-6.09	-3.09	2680	15.13	-8.2	-5
				2690	15.7	-8.04	-4.98

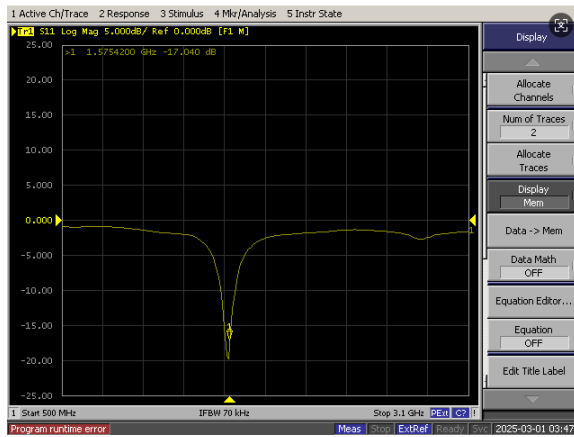






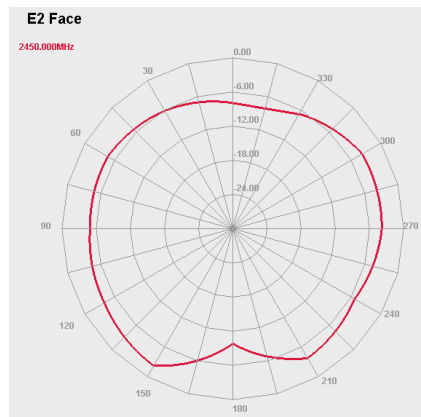
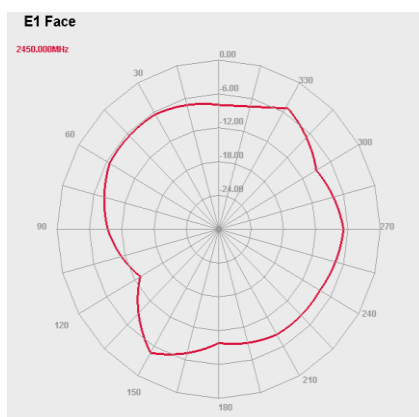
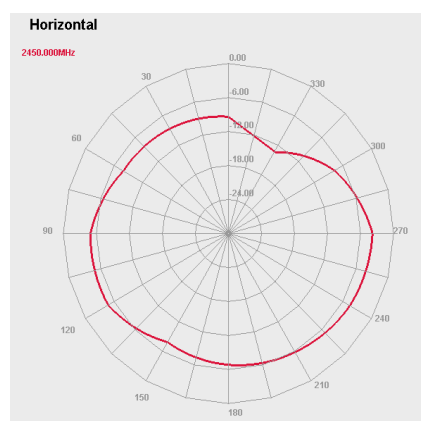
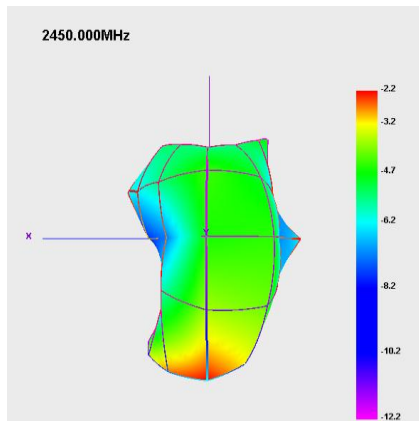
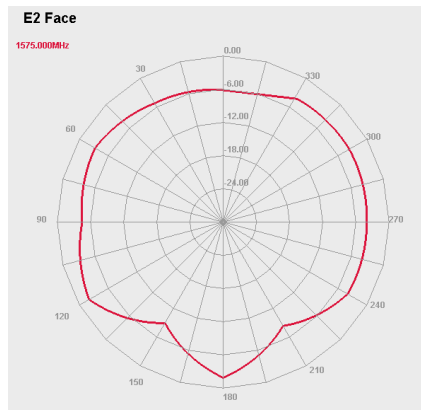
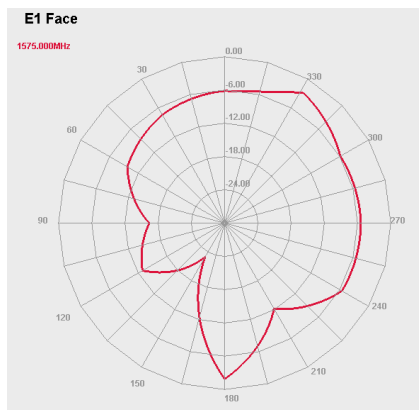
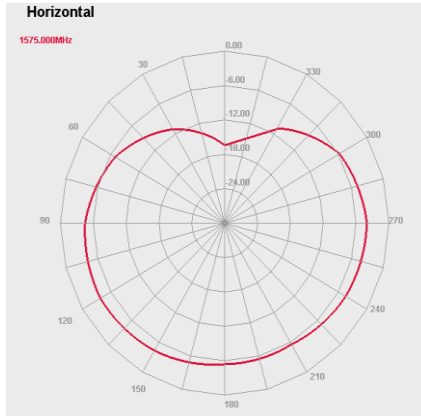
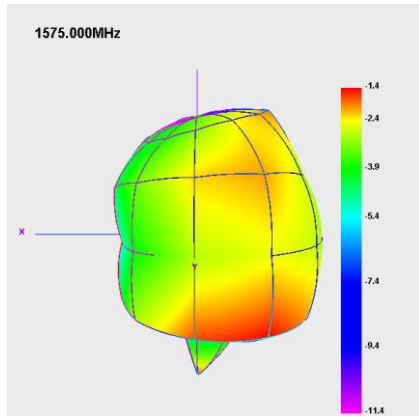
(gps antenna)

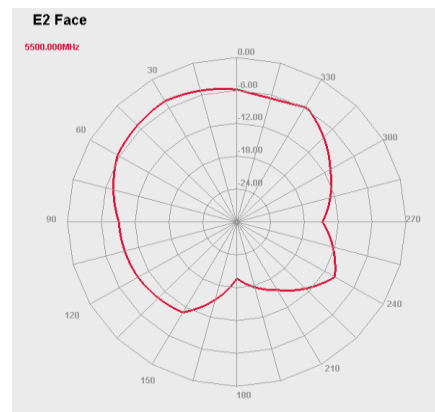
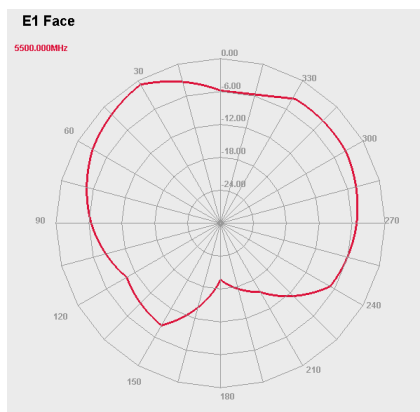
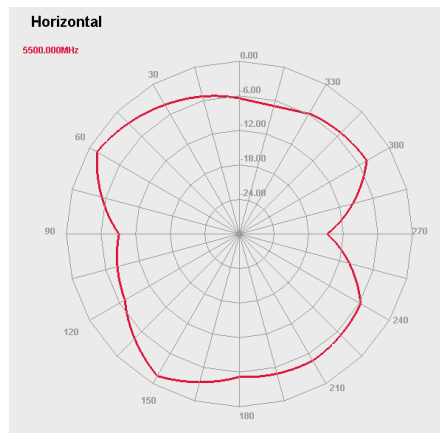
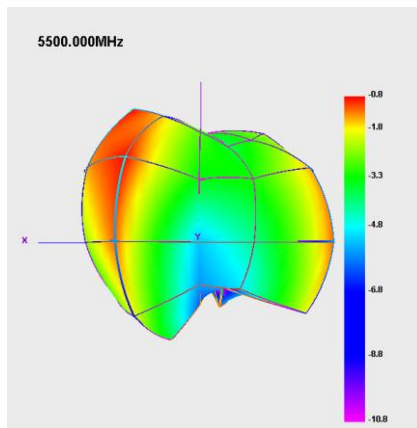
(wifi antenna)



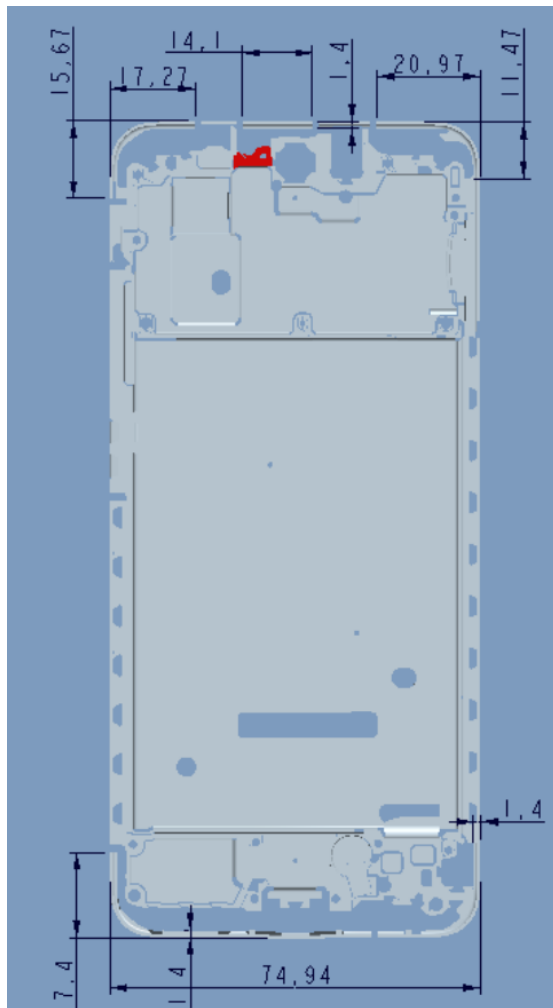
(WiFi/BT antenna)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	14.97	-8.25	-4.66	5440	33.8	-4.71	-0.49
2410	15.09	-8.21	-4.58	5450	33.14	-4.8	-0.81
2420	16.75	-7.76	-3.81	5460	32.11	-4.93	-0.41
2430	19.37	-7.13	-3.04	5470	32.31	-4.91	-0.75
2440	22.34	-6.51	-2.44	5480	30.43	-5.17	-0.92
2450	23.95	-6.21	-2.21	5490	31.66	-4.99	-0.72
2460	25.05	-6.01	-2.13	5500	31.73	-4.99	-0.76
2470	25.09	-6	-2.19	5510	31.79	-4.98	-1.06
2480	25.8	-5.88	-2.23	5520	30.84	-5.11	-1.17
2490	25.93	-5.86	-2.33	5530	31.29	-5.05	-1.2
2500	24.92	-6.04	-2.49	5540	32.49	-4.88	-0.35
				5550	30.69	-5.13	-1.05
5150	27.83	-5.55	-1.01	5560	31.23	-5.05	-0.96
5160	27.2	-5.65	-1.56	5570	30.37	-5.18	-1.13
5170	28.26	-5.49	-0.74	5580	29.92	-5.24	-1.08
5180	26.04	-5.84	-1.9	5590	29.37	-5.32	-1.41
5190	25.55	-5.93	-1.67	5600	29.53	-5.3	-1.39
5200	25.66	-5.91	-2.08	5610	29.03	-5.37	-1.43
5210	25.52	-5.93	-1.25	5620	28.31	-5.48	-1.97
5220	24.33	-6.14	-1.56	5630	27.53	-5.6	-1.83
5230	27.14	-5.66	-0.83	5640	28.23	-5.49	-1.66
5240	25.66	-5.91	-1.83	5650	28.13	-5.51	-1.52
5250	24.91	-6.04	-1.52	5660	27.47	-5.61	-2
5260	26.03	-5.85	-1.42	5670	27.92	-5.54	-2.04
5270	25.52	-5.93	-1.68	5680	28.61	-5.43	-1.78
5280	26.93	-5.7	-1.59	5690	28.22	-5.49	-1.99
5290	25.83	-5.88	-1.32	5700	28.68	-5.42	-1.86
5300	25.85	-5.88	-1.43	5710	27.54	-5.6	-1.06
5310	25.34	-5.96	-1.53	5720	28.28	-5.49	-1.79
5320	27.4	-5.62	-1.21	5730	26.99	-5.69	-1.81
5330	29.36	-5.32	-0.78	5740	27.25	-5.65	-2.04
5340	28.73	-5.42	-0.94	5750	26.51	-5.77	-2.15
5350	29.45	-5.31	-0.77	5760	26.58	-5.75	-1.66
5360	28.9	-5.39	-0.86	5770	25.94	-5.86	-2.11
5370	29.44	-5.31	-0.92	5780	25.26	-5.98	-1.99
5380	30.03	-5.22	-1.13	5790	24.29	-6.15	-1.96
5390	28.32	-5.48	-1.33	5800	22.98	-6.39	-2.02
5400	33.66	-4.73	-0.5	5810	24.99	-6.02	-2
5410	34.82	-4.58	-0.28	5820	24.42	-6.12	-1.98
5420	34.26	-4.65	-0.17	5830	25.09	-6	-2.11
5430	34.16	-4.67	-0.16	5840	25.45	-5.94	-1.24
				5850	24.6	-6.09	-2.49





3. Antenna size



4. Antenna supplier

Company name:

Shenzhen 3Good Wireless Communication Co., Ltd

Company address:

501-508, Jinfulai Building, No. 49-1 Dabao Road, Bao'an District, Shenzhen