



AUDEN COMMUNICATIONS&MULTIMEDIA
TECHNO (KUNSHAN) CO.LTD

Product Specification

Customer/Project	GD506 Main	Frequency Band	WCDMA Band: 2/4/5 LTE Band: 2/4/5/12/13/25/26/66		
Auden P/N	AUKE3483	Version	R:A		
Design	Jiahao zhu	Quality		Confirm by	
Mechanical design	Dong wang	PM			
Date	202209-05				
Customer Project /SCT P/N	Customer Project: GD506-Main				
	Type specification:				
	SCT P/N: 140050100157				
Customer Confirmation					
Auden					
Research and Development project Customer Satisfaction Survey					
RF	☐ Satisfactory	☐ Basic satisfaction	☐ Not satisfied		
ME	☐ Satisfactory	☐ Basic satisfaction	☐ Not satisfied		
PM	☐ Satisfactory	☐ Basic satisfaction	☐ Not satisfied		
Recommendation note:					

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1、Product Specifications

Frequency Band:WCDMA Band: 2/4/5 LTE Band: 2/4/5/12/13/25/26/66。

2、Electrical Performance

2.1 Gain Test

2.1.1 Test Results

Efficiency and Gain								
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi		Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
700	-5.04	31.33	-2.95		1950	-3.54	44.26	0.6
710	-4.35	36.73	-2.33		1970	-3.76	42.07	-0.18
720	-4.56	34.99	-2.96		1990	-3.94	40.36	-1.3
730	-4.01	39.72	-2.39		2010	-3.63	43.35	-0.23
740	-3.88	40.93	-2.62		2030	-3.69	42.76	-0.45
750	-3.65	43.15	-2.16		2050	-3.19	47.97	-0.27
760	-4.04	39.45	-2.76		2070	-3.31	46.67	-0.55
770	-3.74	42.27	-2.51		2090	-2.98	50.35	-0.12
780	-3.58	43.85	-2.23		2110	-3.18	48.08	-0.43
790	-3.21	47.75	-2.01		2130	-3.2	47.86	-0.23
800	-3.7	42.66	-3.25		2150	-3.31	46.67	-0.13
810	-3.35	46.24	-3.01		2170	-3.42	45.5	0.24
820	-3.39	45.81	-2.61		2190	-3.36	46.13	0.73
830	-3.53	44.36	-2.28		2210	-3.51	44.57	0.61
840	-3.94	40.36	-3.57		2230	-3.52	44.46	0.19
850	-3.97	40.09	-3.49		2250	-3.68	42.85	-0.34
860	-4.35	36.73	-3.33		2270	-3.79	41.78	-0.34
870	-5.11	30.83	-3.88		2290	-3.64	43.25	0.09
880	-6.67	21.53	-6.37		2310	-3.52	44.46	0.48
890	-8.54	14	-8.32		2330	-3.28	46.99	1.12
900	-10.72	8.47	-10.56		2350	-3.66	43.05	0.8
910	-11.32	7.38	-10.44		2370	-3.95	40.27	0.67
920	-10.63	8.65	-9.35		2390	-4.62	34.51	0.13
930	-9.64	10.86	-8.01		2410	-5.37	29.04	-1.49
940	-9.36	11.59	-7.11		2430	-4.17	38.28	-0.25
950	-9.53	11.14	-6.64		2450	-4.83	32.89	-0.77
960	-10.55	8.81	-7.35		2470	-4.82	32.96	0.94
1710	-2.47	56.62	1.24		2490	-4.99	31.7	0.93
1730	-2.34	58.34	1.1		2510	-4.48	35.65	1.34
1750	-2.55	55.59	0.65		2530	-4.28	37.33	1.07
1770	-2.29	59.02	0.85		2550	-3.97	40.09	1.38
1790	-2.53	55.85	0.55		2570	-3.74	42.27	1.1
1810	-2.26	59.43	1.36		2590	-3.59	43.75	0.95
1830	-2.48	56.49	1.32		2610	-3.27	47.1	0.92
1850	-2.4	57.54	2.06		2630	-3.16	48.31	0.48
1870	-2.61	54.83	1.83		2650	-3.11	48.87	0.55
1890	-2.83	52.12	1.98	2670	-3.02	49.89	0.86	
1910	-3.02	49.89	1.53	2690	-3.2	47.86	0.54	
1930	-3.27	47.1	1.03					

2.1.2 OTA

B2	18650	19.65	650	-94.75
	18900	20.34	900	-95.14
	19150	19.77	1150	-96.21
B4	20000	20.33	2000	-96.51
	20175	20.05	2175	-97.52
	20350	19.27	2350	-96.58
B5	20450	20.5	2450	-96.83
	20525	20.37	2525	-96.59
	20600	18.46	2600	-96.51
B12	23060	18.25	5060	-97.04
	23095	20.46	5095	-97.42
	23130	17.29	5130	-96.36
B13				
	23230	21.36	5230	-93.58
B25	26090	20	8090	-94.63
	26365	20.79	8365	-94.89
	26640	19.86	8640	-95.99
B26	26740	19.73	8740	-96.42
	26865	20.39	8865	-96.84
	26990	16.97	8990	-96.52
B66	132022	20.34	66486	-96.75
	132322	20.57	66786	-96.92
	132622	19.74	67086	-97.26

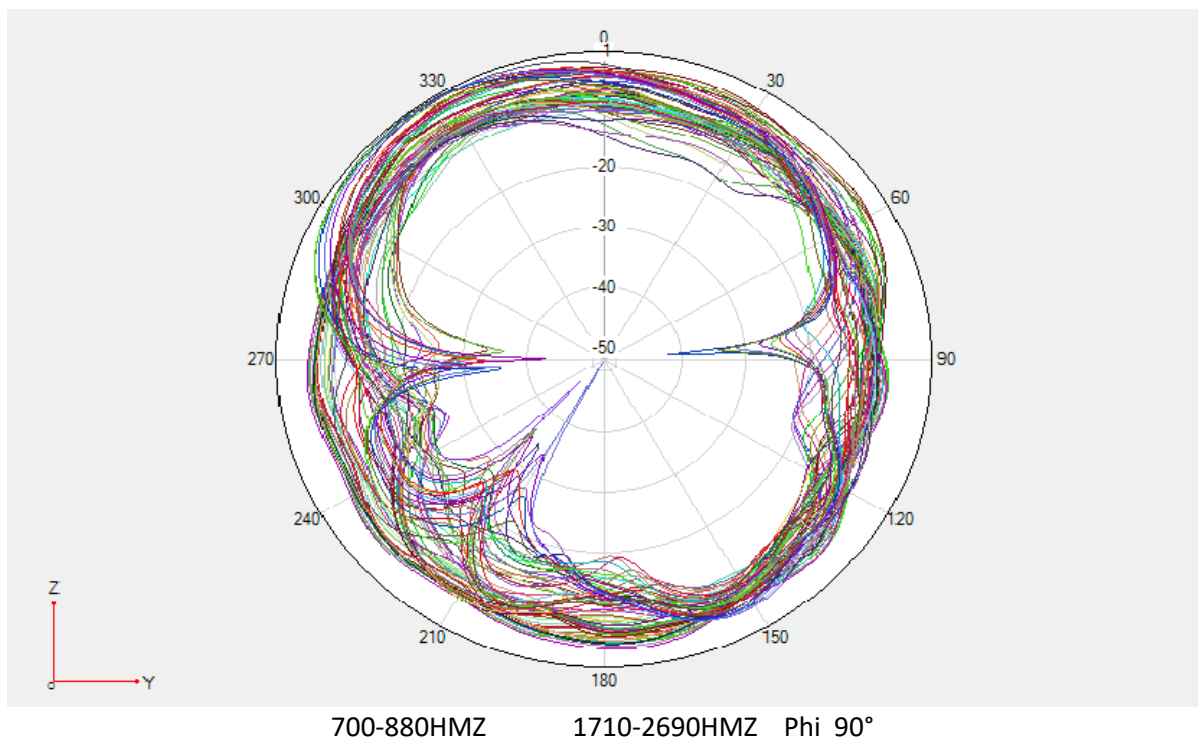
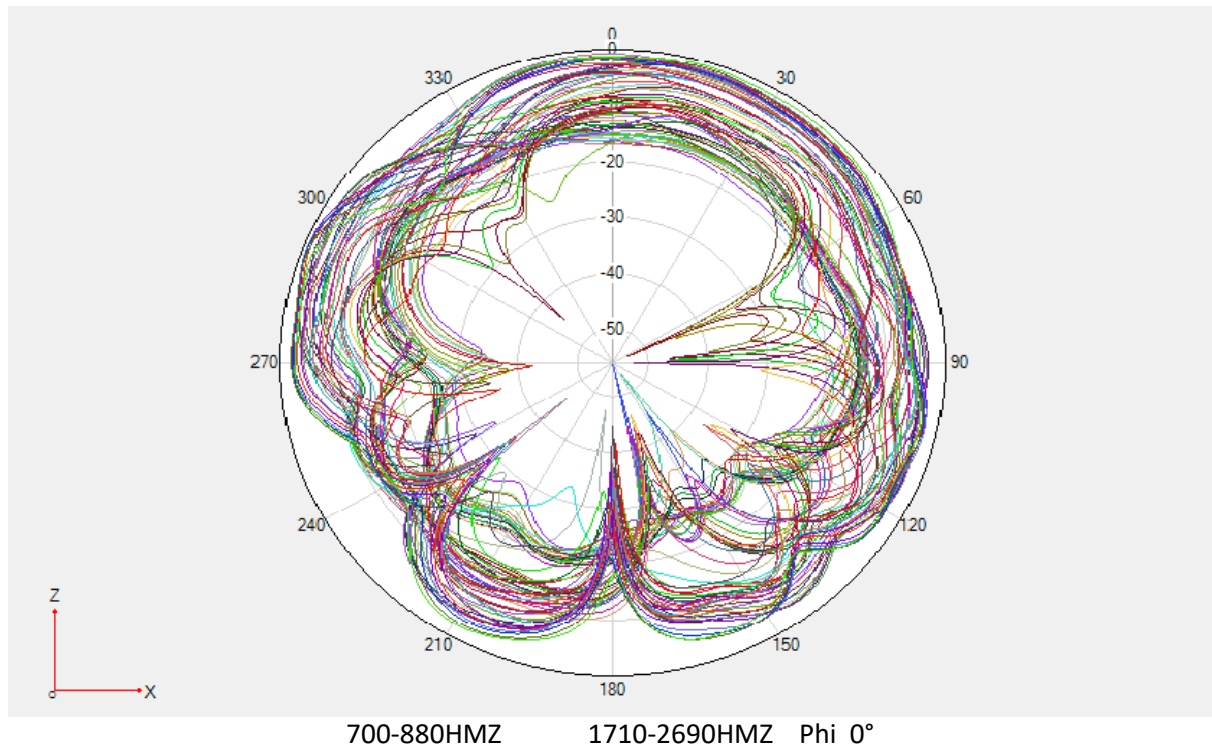
3、Annex

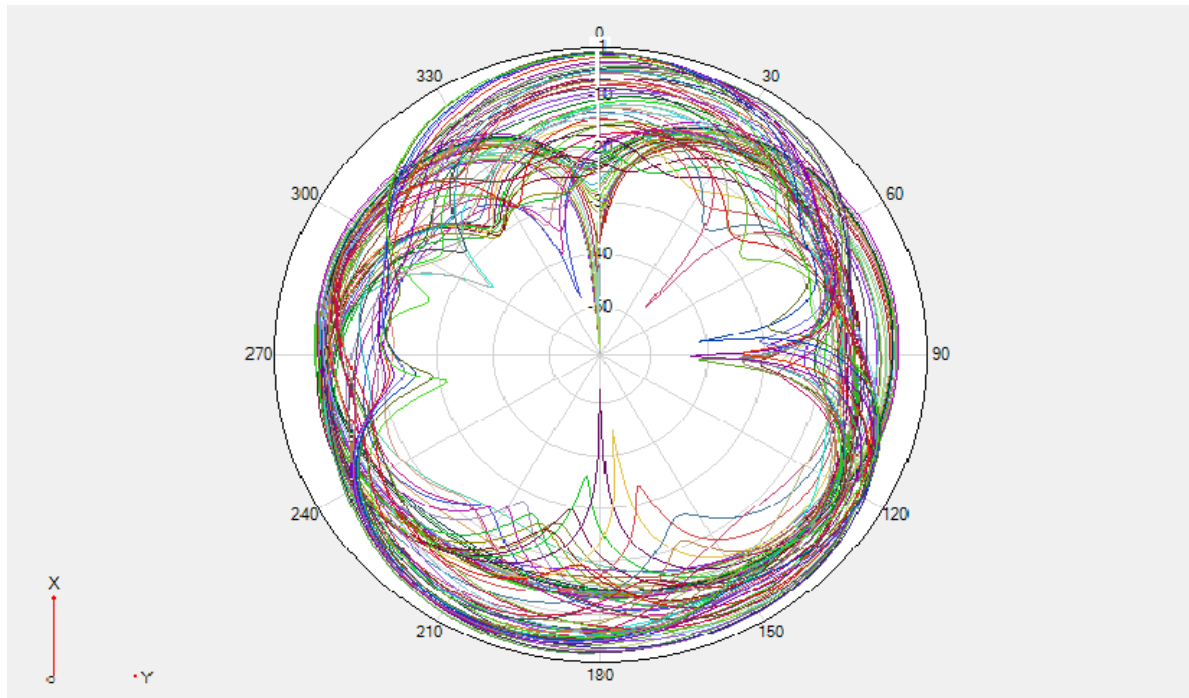
3.1 VSWR



GD506 MAIN VSWR

3.2 Antenna Pattern





700-880HMZ 1710-2690HMZ Theta90°

4、 Antenna structure diagram

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