

Manufacturer: SunnywayTechnology (China)Co., Ltd.

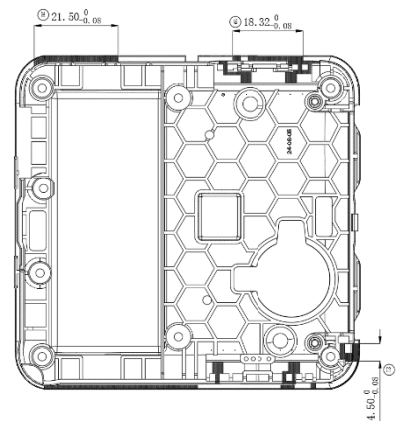
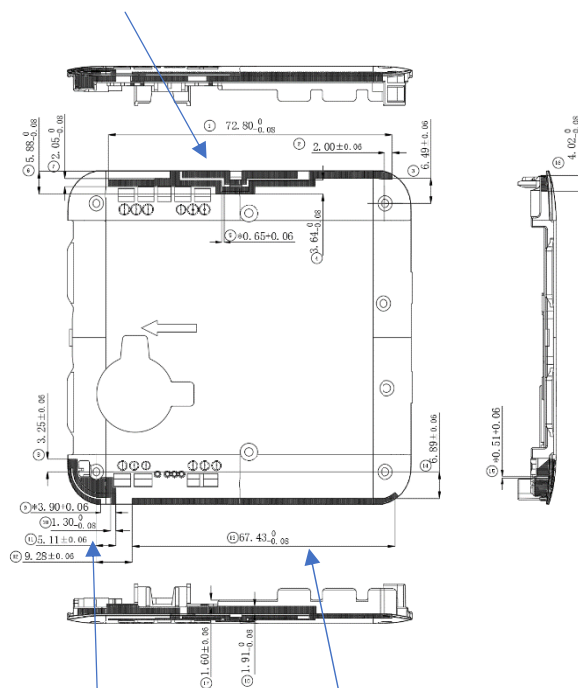
Address:Floor 6, Building 5, Nam Tai Inno Park, Guangming
District, Shenzhen

MAIN antenna model : XGD-N62-MAIN-LDS

DIV antenna model : XGD-N62-DIV-LDS

BWG antenna model : XGD-N62-GWB-LDS

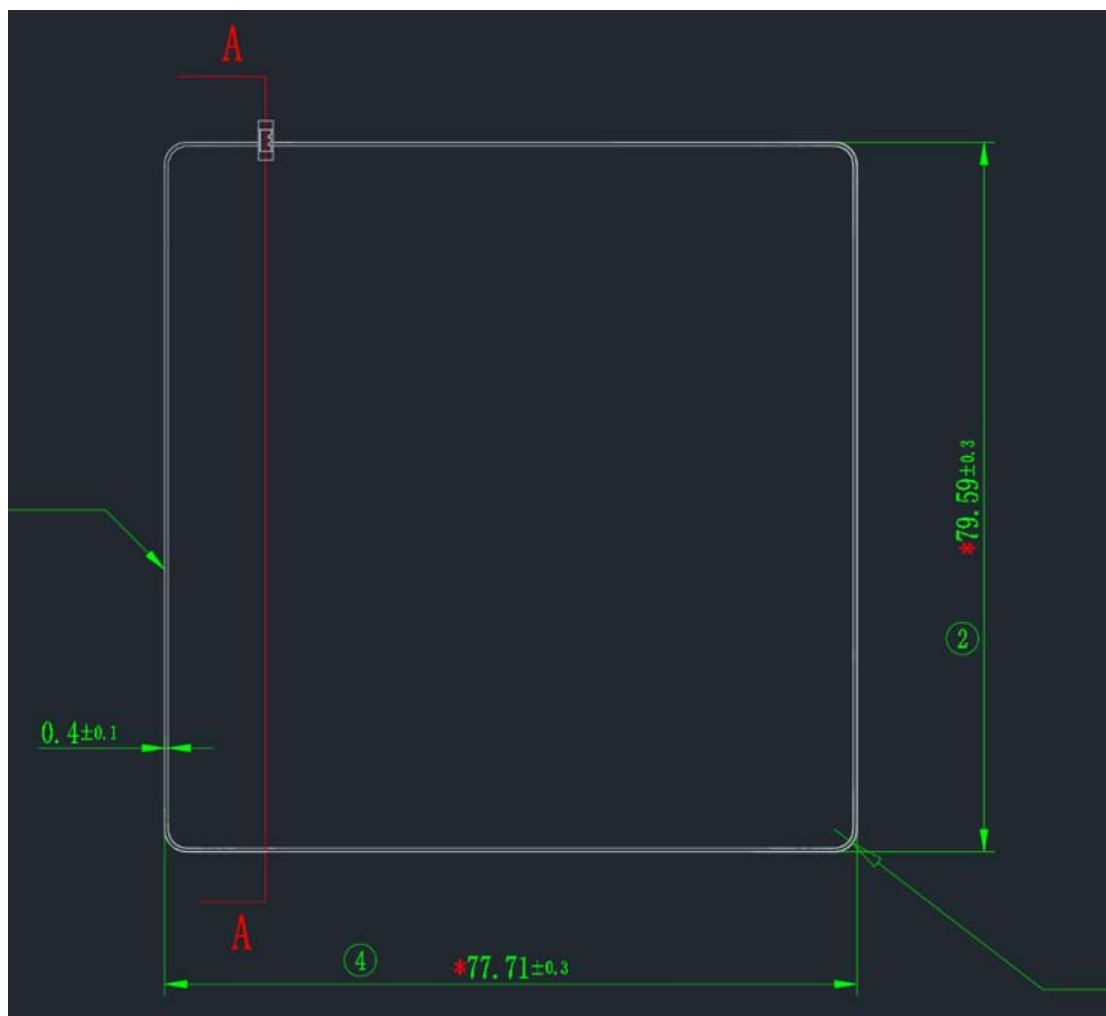
MAIN-ANT



3in1-ANT

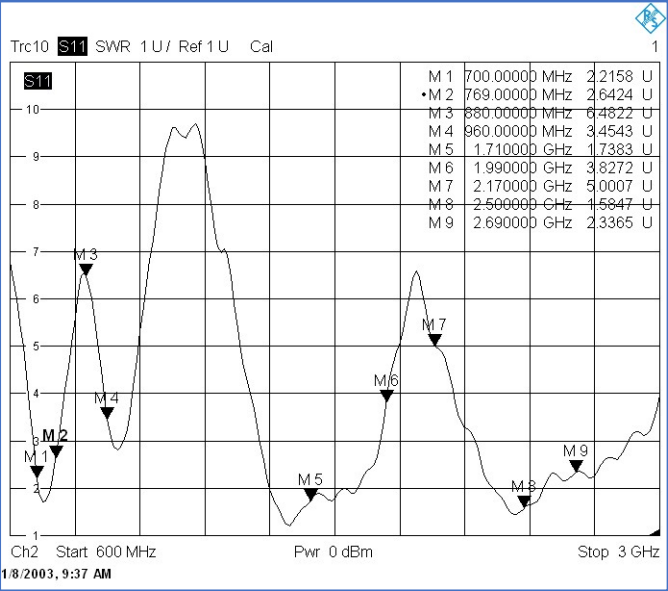
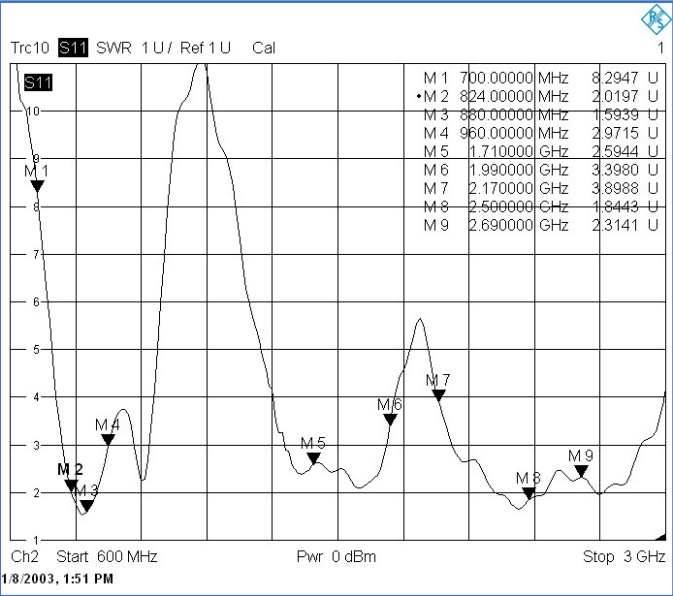
DIV-ANT

NFC-ANT



一、MAIN antenna

1、Passive performance test parameters



2、antenna passive data :

Frequency/ Mhz	Efficiency / %	MaxGain/ dBi	Frequency/ Mhz	Efficiency / %	MaxGain/ dBi	Frequency/ Mhz	Efficiency / %	MaxGain/ dBi
700	16.75	-3.47	1710	21.94	-2.33	2250	22.34	-1.44
710	17.22	-3.22	1730	23.07	-2.27	2270	22.34	-2.04
720	16.78	-3.75	1750	24.59	-2.22	2290	23.33	-2.07
730	16.64	-4.63	1770	24.5	-2.65	2310	24.27	-1.78
740	16.53	-4.76	1790	24.91	-3.02	2330	25.29	-1.57
750	15.21	-5.21	1810	24.77	-2.29	2350	27.04	-1.31
760	14.14	-5.68	1830	26.09	-2.23	2370	27.48	-1.35
770	13.18	-6.91	1850	26.53	-1.83	2390	28.31	-0.84
780	12.8	-7.14	1870	27.49	-2.15	2410	29.79	-0.96
790	12.45	-7.37	1890	27.39	-2.02	2430	31.12	-0.79
800	16.94	-5.44	1910	28.12	-1.46	2450	33.57	-0.37
810	18.07	-4.91	1930	27.96	-1.64	2470	36.14	0.38
820	19.59	-4.52	1950	27.75	-1.98	2490	37.5	0.6
830	19.5	-4.44	1970	27.86	-2.09	2510	38.55	0.62
840	19.91	-4.31	1990	26.58	-2.24	2530	38.19	-0.06
850	19.77	-4.15	2010	24.82	-2.8	2550	37.93	0.12
860	21.09	-3.63	2030	22.82	-3.79	2570	37.15	0.59
870	21.53	-3.65	2050	21.41	-5.07	2590	37.15	0.68
880	22.49	-3.59	2070	21.63	-5.88	2610	35.73	0.56
890	22.39	-3.87	2090	22.5	-5.48	2630	35.16	0.57
900	23.12	-4.03	2110	21.87	-4.09	2650	33.19	0.32
910	22.96	-4.22	2130	22.91	-1.75	2670	31.84	-0.08
920	22.75	-4.35	2150	24.72	-2.39	2690	30.13	-0.16
930	22.86	-4.4	2170	25.84	-2.54			
940	21.58	-4.54	2190	27.23	-1.8			
950	19.82	-4.9	2210	27.65	-1.5			
960	17.82	-5.38	2230	28.99	-1.16			

3、 Directional diagram

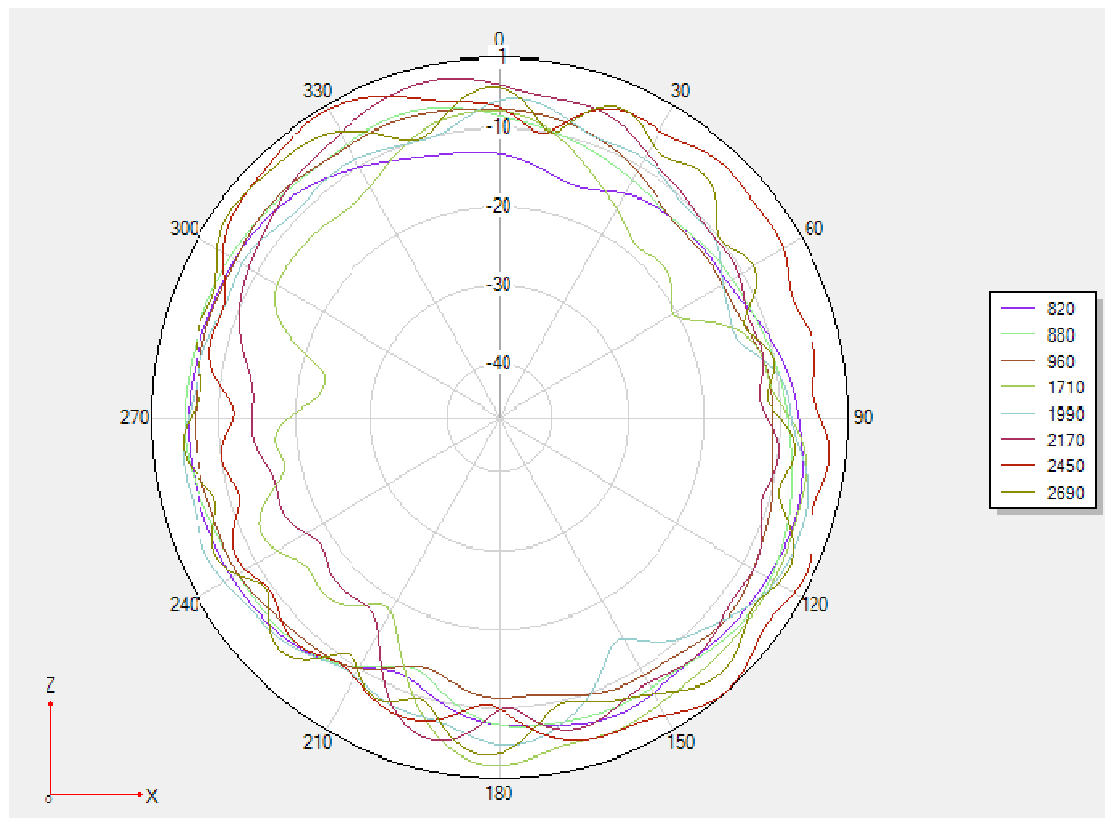


chart1Phi 0 2D

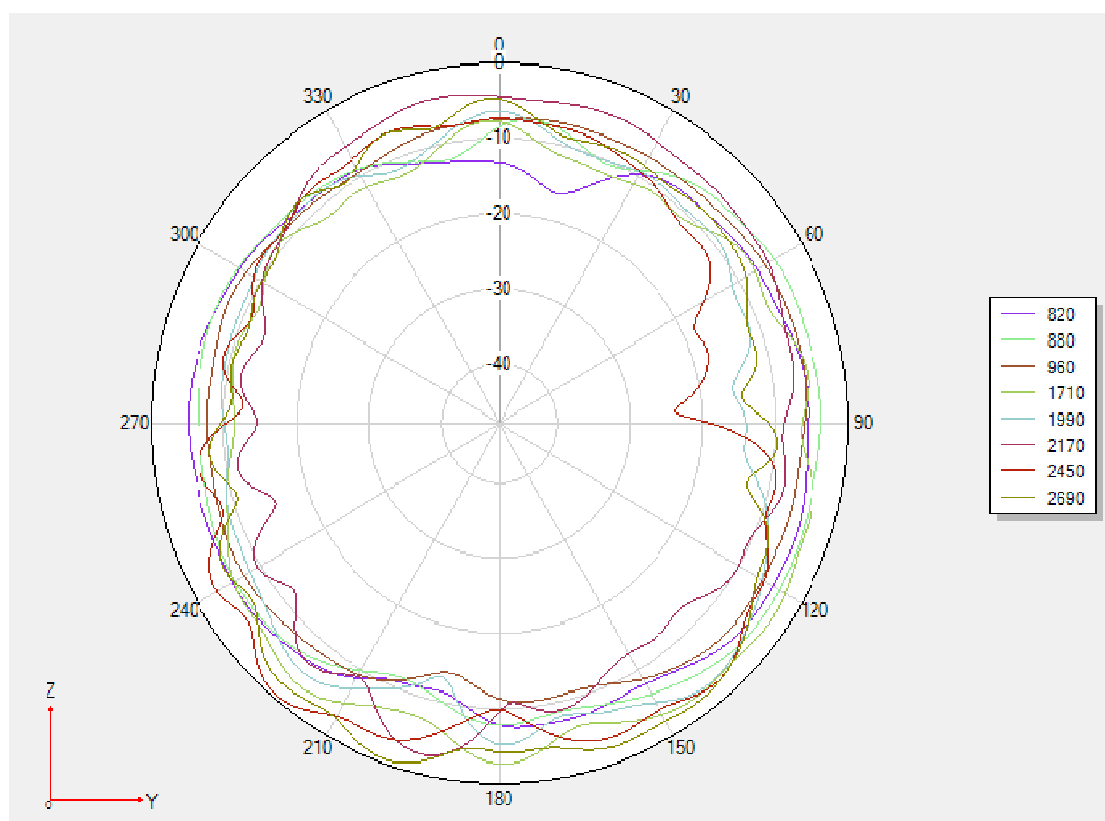


chart2Phi 90 2D

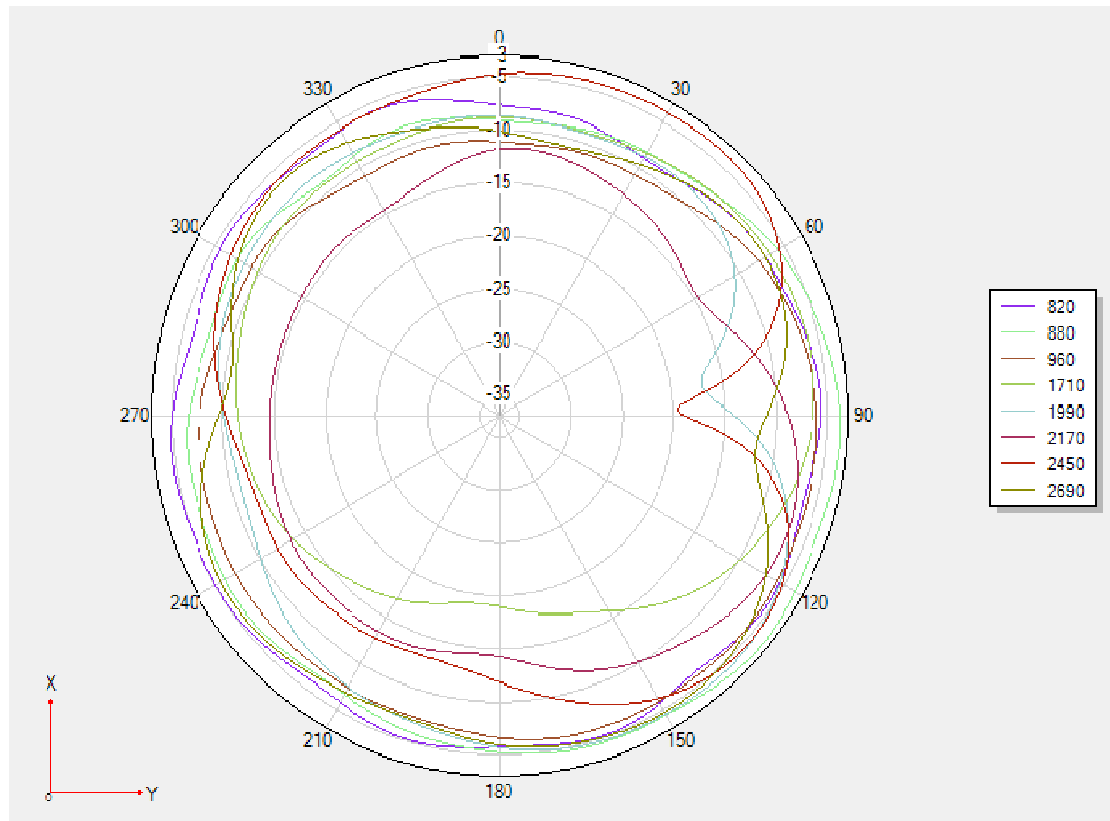


chart3Theta 90 2D

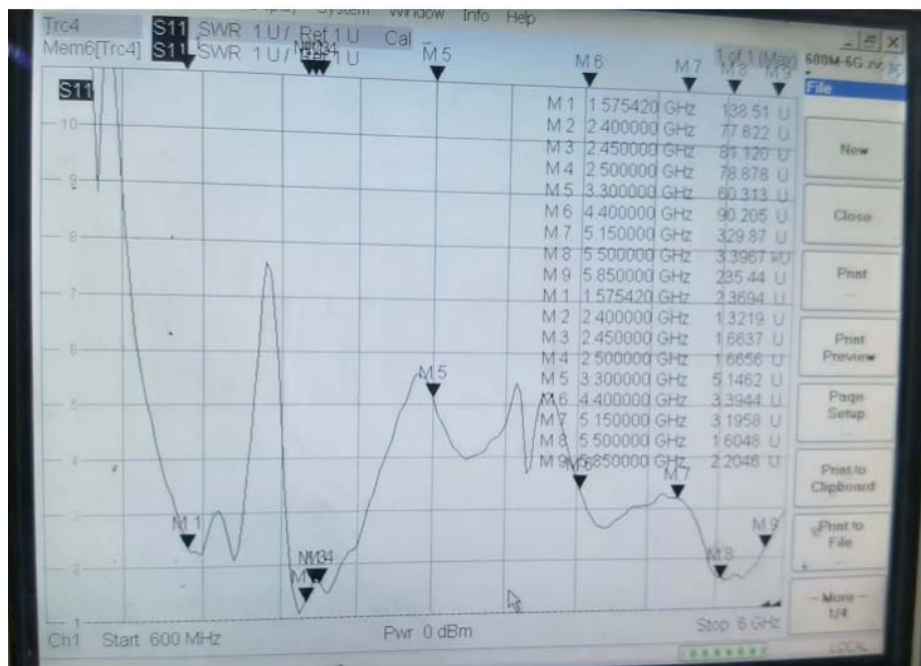
4、antenna OTA data :

Measurement	Band	Channel	Total-灭屏	Measurement	Band	Channel	Total-灭屏
TRP	GPRS850	128	27.42	TRP	WCDMA_B1	9612	17.58
TRP	GPRS850	190	27.72	TRP	WCDMA_B1	9750	17.53
TRP	GPRS850	251	27.11	TRP	WCDMA_B1	9888	16.78
TIS(RSSI)	GPRS850	251	-108.12	TIS(RSSI)	WCDMA_B1	10838	-103.41
TRP	GPRS900	975	27.77	TRP	WCDMA_B2	9262	16.25
TRP	GPRS900	38	28.32	TRP	WCDMA_B2	9400	16.3
TRP	GPRS900	124	28.19	TRP	WCDMA_B2	9538	16.19
TIS(RSSI)	GPRS900	124	-107.72	TIS(RSSI)	WCDMA_B2	9938	-102.92
TRP	GPRS1800	512	24.58	TRP	WCDMA_B5	4132	19.1
TRP	GPRS1800	699	24.01	TRP	WCDMA_B5	4183	18.77
TRP	GPRS1800	885	24.33	TRP	WCDMA_B5	4233	18.68
TIS(RSSI)	GPRS1800	885	-105.4	TIS(RSSI)	WCDMA_B5	4458	-102.2
TRP	GPRS1900	512	24.61	TRP	WCDMA_B8	2712	19.65
TRP	GPRS1900	661	24.13	TRP	WCDMA_B8	2787	18.56
TRP	GPRS1900	810	23.52	TRP	WCDMA_B8	2863	19.47

TIS(RSSI)	GPRS1900	810	-103.76	TIS(RSSI)	WCDMA_B8	3088	-104.87
Measurement	Band	Channel	Total-灭屏	Measurement	Band	Channel	Total-灭屏
TRP	FDD_B1(10MHz)	18050	17.29	TRP	FDD_B8(10MHz)	21500	18.83
TRP	FDD_B1(10MHz)	18300	17.18	TRP	FDD_B8(10MHz)	21625	18.96
TRP	FDD_B1(10MHz)	18550	17.58	TRP	FDD_B8(10MHz)	21750	18.27
TIS(RSSI)	FDD_B1(10MHz)	550	-91.62	TIS(RSSI)	FDD_B8(10MHz)	3750	-90.35
TRP	FDD_B2(10MHz)	18650	17.76	TRP	FDD_B20(10MHz)	24200	18.03
TRP	FDD_B2(10MHz)	18900	17.82	TRP	FDD_B20(10MHz)	24300	18.05
TRP	FDD_B2(10MHz)	19150	17.71	TRP	FDD_B20(10MHz)	24400	18.42
TIS(RSSI)	FDD_B2(10MHz)	1150	-92.1	TIS(RSSI)	FDD_B20(10MHz)	6400	-89.17
TRP	FDD_B3(10MHz)	19250	18.66	TRP	FDD_B28(10MHz)	27260	16.19
TRP	FDD_B3(10MHz)	19575	19.78	TRP	FDD_B28(10MHz)	27435	17.76
TRP	FDD_B3(10MHz)	19900	20.48	TRP	FDD_B28(10MHz)	27610	16.37
TIS(RSSI)	FDD_B3(10MHz)	1900	-93.73	TIS(RSSI)	FDD_B28(10MHz)	9610	-89.43
TRP	FDD_B4(10MHz)	20000	18.33	TRP	TDD_B38(20MHz)	37850	19.25
TRP	FDD_B4(10MHz)	20175	18.34	TRP	TDD_B38(20MHz)	38000	19.28
TRP	FDD_B4(10MHz)	20350	18.67	TRP	TDD_B38(20MHz)	38150	18.56
TIS(RSSI)	FDD_B4(10MHz)	2350	-91.95	TIS(RSSI)	TDD_B38(20MHz)	38150	-91.21
TRP	FDD_B5(10MHz)	20450	18.59	TRP	TDD_B40(20MHz)	38750	17.1
TRP	FDD_B5(10MHz)	20525	18.76	TRP	TDD_B40(20MHz)	39150	17.56
TRP	FDD_B5(10MHz)	20600	19.79	TRP	TDD_B40(20MHz)	39550	18.25
TIS(RSSI)	FDD_B5(10MHz)	2600	-92.52	TIS(RSSI)	TDD_B40(20MHz)	39550	-91.92
TRP	FDD_B7(10MHz)	20800	19.35	TRP	TDD_B41(20MHz)	39750	19.71
TRP	FDD_B7(10MHz)	21100	18.83	TRP	TDD_B41(20MHz)	40620	18.58
TRP	FDD_B7(10MHz)	21400	18.73	TRP	TDD_B41(20MHz)	41490	18.31
TIS(RSSI)	FDD_B7(10MHz)	3400	-94.52	TIS(RSSI)	TDD_B41(20MHz)	41490	-92.84

二、BWG antenna

1、Passive performance test parameters



2、antenna passive data :

Frequency/ Mhz	Efficiency / %	MaxGain/ dBi	Frequency/ Mhz	Efficiency / %	MaxGain/ dBi	Frequency/ Mhz	Efficiency / %	MaxGain/ dBi
1550	34.03	-4.22	2400	40.09	-0.18	5150	38.41	1.61
1555	33.61	-4.25	2410	41.13	0.04	5200	36.18	1.39
1560	33.8	-4.14	2420	40.7	0.05	5250	36.41	1.36
1565	34.19	-4.06	2430	41.23	0.18	5300	34.96	1.01
1570	34.52	-4.05	2440	42.39	0.51	5350	32.94	0.83
1575	34.79	-4.13	2450	43.82	0.83	5400	33.21	1.51
1580	34.19	-4.42	2460	43.88	0.98	5450	33.87	1.95
1585	33.77	-4.65	2470	44.38	1.06	5500	33.87	2.15
1590	33.9	-4.69	2480	45.29	1.26	5550	34	2.11
1595	33.46	-4.74	2490	46	1.38	5600	31.97	1
1600	33.52	-4.59	2500	45.64	1.45	5650	31.51	0.03
1605	34.52	-4.12				5700	31.75	-0.41
1610	34.83	-3.97				5750	30.84	-1.2
1615	35	-3.53				5800	29.98	-1.82
1620	35.38	-3.07				5850	30.47	-1.76
1625	35.17	-2.91						
1630	35.28	-2.74						
1635	35.63	-2.56						
1640	35.31	-2.62						
1645	35.78	-2.6						
1650	36.22	-2.66						

3、Directional diagram

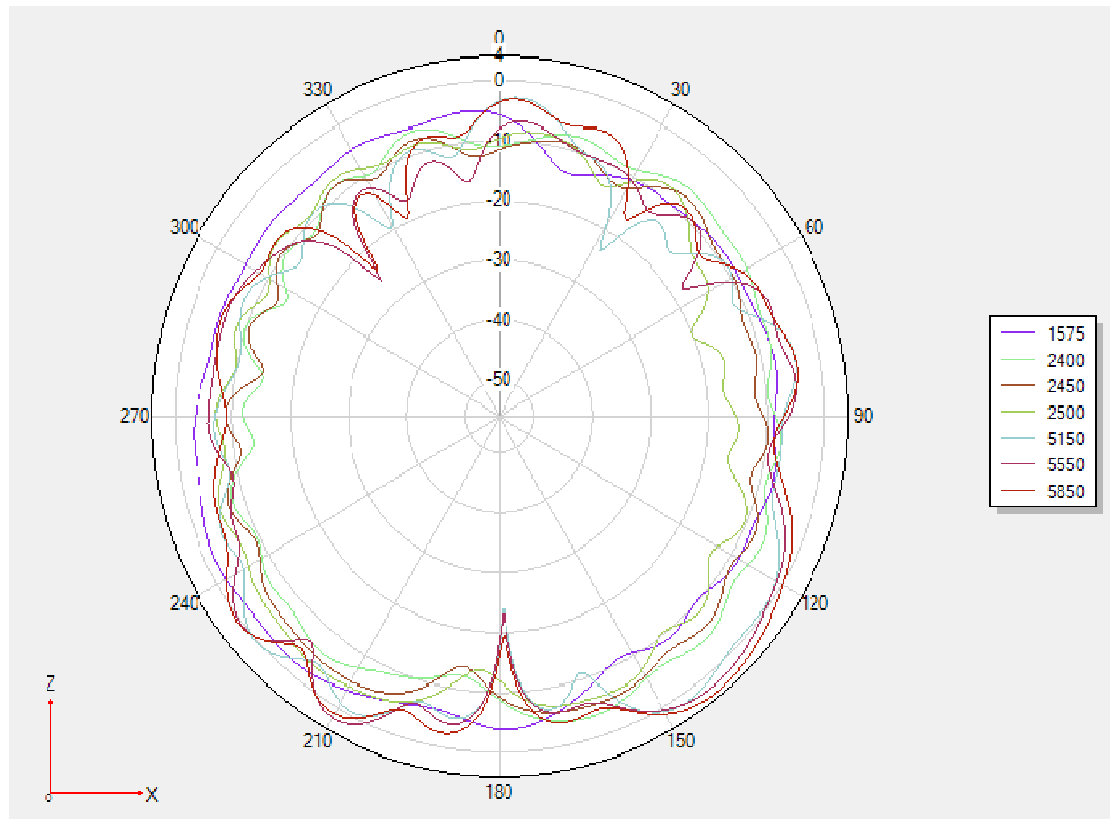


chart4Phi 0 2D chart

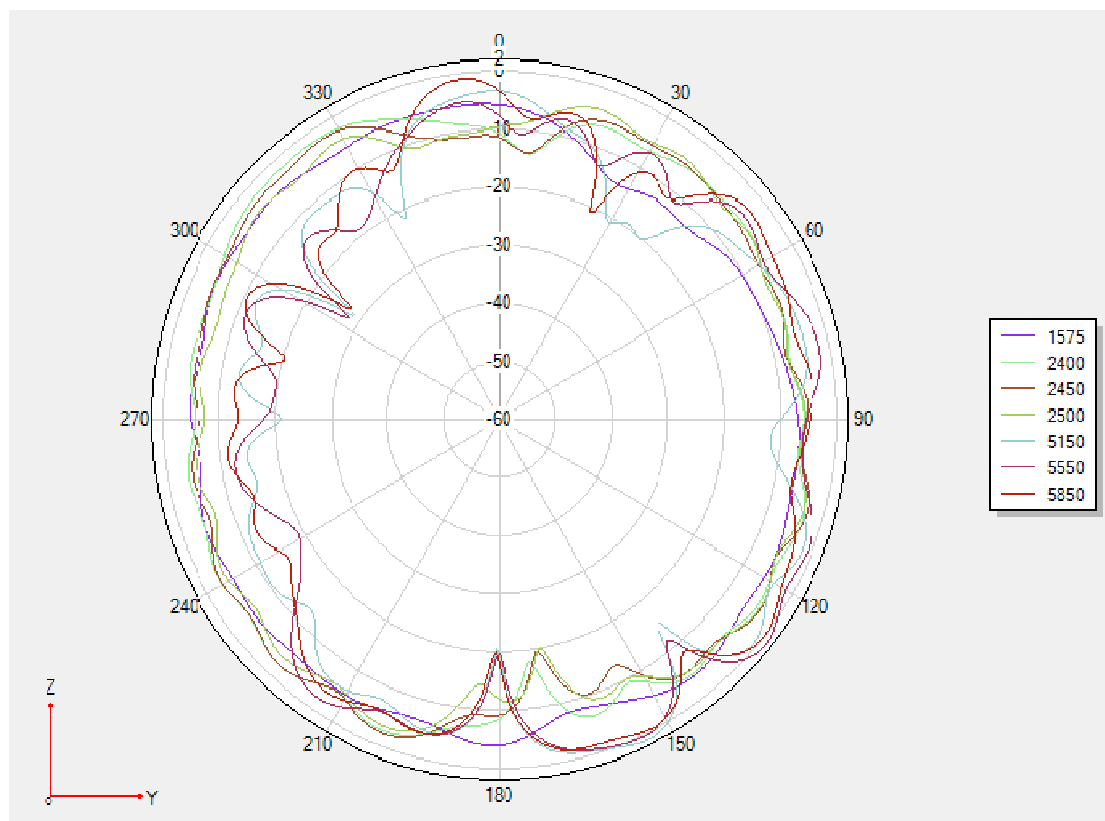


chart5Phi 90 2D chart

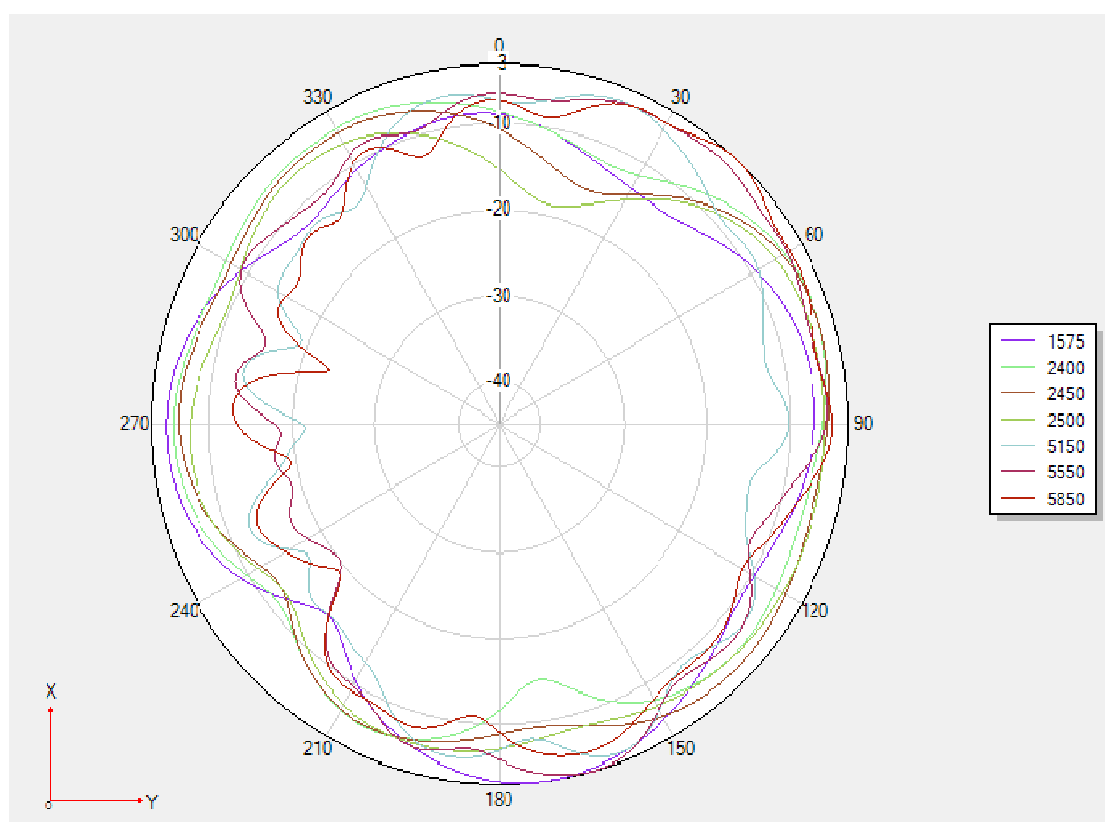


chart6Theta 90 2D chart

4、 antenna OTA data :

WIFI OTA

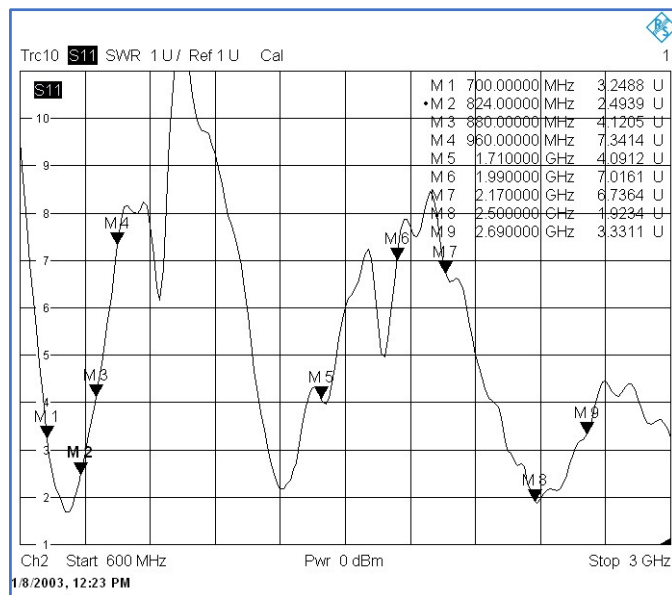
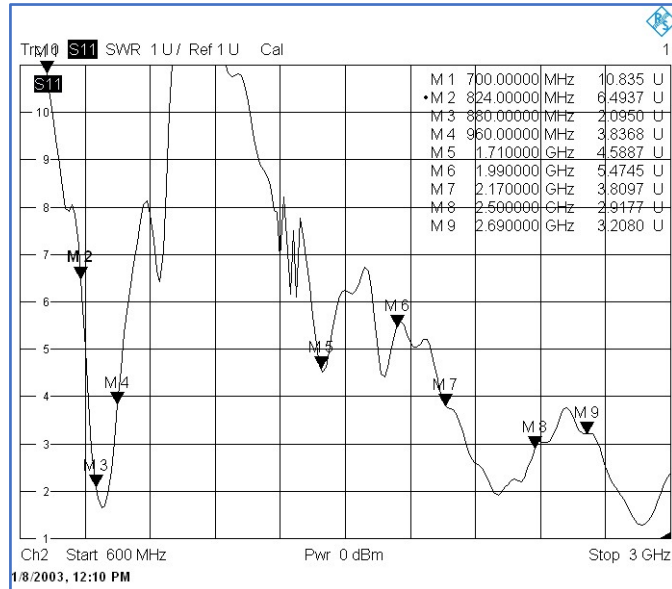
Measurement	Band	Channel	Total
TRP	WIFI_B (1M)	1	12.33
TRP	WIFI_B (1M)	6	12.3
TRP	WIFI_B (1M)	11	12.37
TIS(EIRP)	WIFI_B (11M)	11	-80.19
TRP	WIFI_G (6M)	1	8.62
TRP	WIFI_G (6M)	6	9.66
TRP	WIFI_G (6M)	11	10.28
TIS(EIRP)	WIFI_G (54M)	11	-68.05
TRP	WIFI_N_ISM (6.5M)	1	8.69
TRP	WIFI_N_ISM (6.5M)	6	10.94
TRP	WIFI_N_ISM (6.5M)	11	9.6
TIS(EIRP)	WIFI_N_ISM (65M)	11	-64.32
TRP	WIFI_A (6M)	36	11.9
TRP	WIFI_A (6M)	149	10.97
TRP	WIFI_A (6M)	165	10.58
TIS(EIRP)	WIFI_A (54M)	165	-71.49
TRP	WIFI_N_UNII (6.5M)	36	10.31
TRP	WIFI_N_UNII (6.5M)	149	9.58
TRP	WIFI_N_UNII (6.5M)	165	9.33
TIS(EIRP)	WIFI_N_UNII (65M)	165	-68.22

GPS Data



三、DIV antenna

1、Passive performance test parameters



2、 antenna passive data :

Frequen cy/Mhz	Efficien cy / %	MaxGa in/dBi	Frequen cy/Mhz	Efficien cy / %	MaxGa in/dBi	Frequen cy/Mhz	Efficien cy / %	MaxGa in/dBi
700	11.67	-2.92	1710	17.27	-5.05	2250	20.67	-3.56
710	11.17	-3.26	1730	17.59	-4.96	2270	20.6	-3.72
720	10.4	-3.84	1750	16.22	-5.29	2290	21.11	-3.57
730	11.04	-3.95	1770	14.1	-6.56	2310	21.41	-3.78
740	12.53	-3.49	1790	12.16	-7.59	2330	21.98	-3.98
750	13.06	-3.48	1810	10.93	-7.68	2350	22.5	-3.34
760	13.61	-3.53	1830	10.38	-7.19	2370	22.95	-2.46
770	13.77	-3.89	1850	10.13	-7.19	2390	22.74	-3.09
780	14.42	-3.81	1870	10.36	-6.88	2410	22.66	-2.72
790	16.9	-2.62	1890	10.94	-6.44	2430	22.34	-2.9
800	18.2	-3.91	1910	11.59	-6.64	2450	23.11	-2.04
810	7.13	-7.2	1930	13.13	-5.7	2470	23.03	-2.22
820	9.46	-5.5	1950	13.57	-5.76	2490	22.62	-2.29
830	11.69	-4.36	1970	12.29	-6.6	2510	22.66	-2.03
840	14.59	-3.45	1990	12.71	-6.78	2530	23.07	-1.72
850	16.79	-2.61	2010	13.75	-6.4	2550	22.7	-1.71
860	19.05	-2.23	2030	14.1	-6.26	2570	22.3	-1.73
870	20.09	-2	2050	14.93	-5.26	2590	22.66	-1.79
880	21.28	-1.63	2070	15.91	-4.84	2610	22.14	-2.36
890	20.7	-1.88	2090	16.32	-5.06	2630	22.62	-2.62
900	21.28	-2.22	2110	17.27	-5.04	2650	23.07	-2.32
910	20.8	-2.26	2130	18.74	-2.52	2670	23.75	-1.9
920	19.91	-2.31	2150	19.39	-3.51	2690	24.54	-1.38
930	19.68	-2.09	2170	20.35	-3.94			
940	18.16	-2.56	2190	20.96	-3.52			
950	16.37	-3.4	2210	20.07	-3.74			
960	14.55	-4.58	2230	20.24	-3.68			

3、Directional diagram

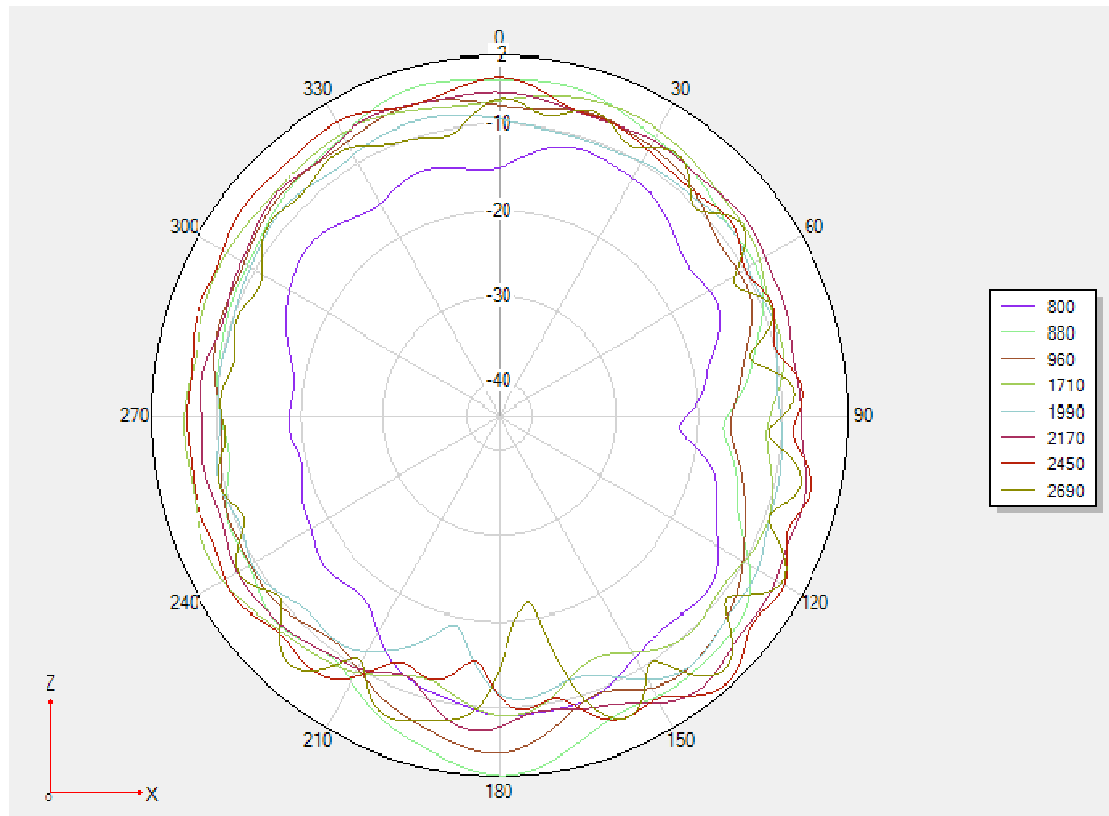


chart 7Phi 0 2D chart

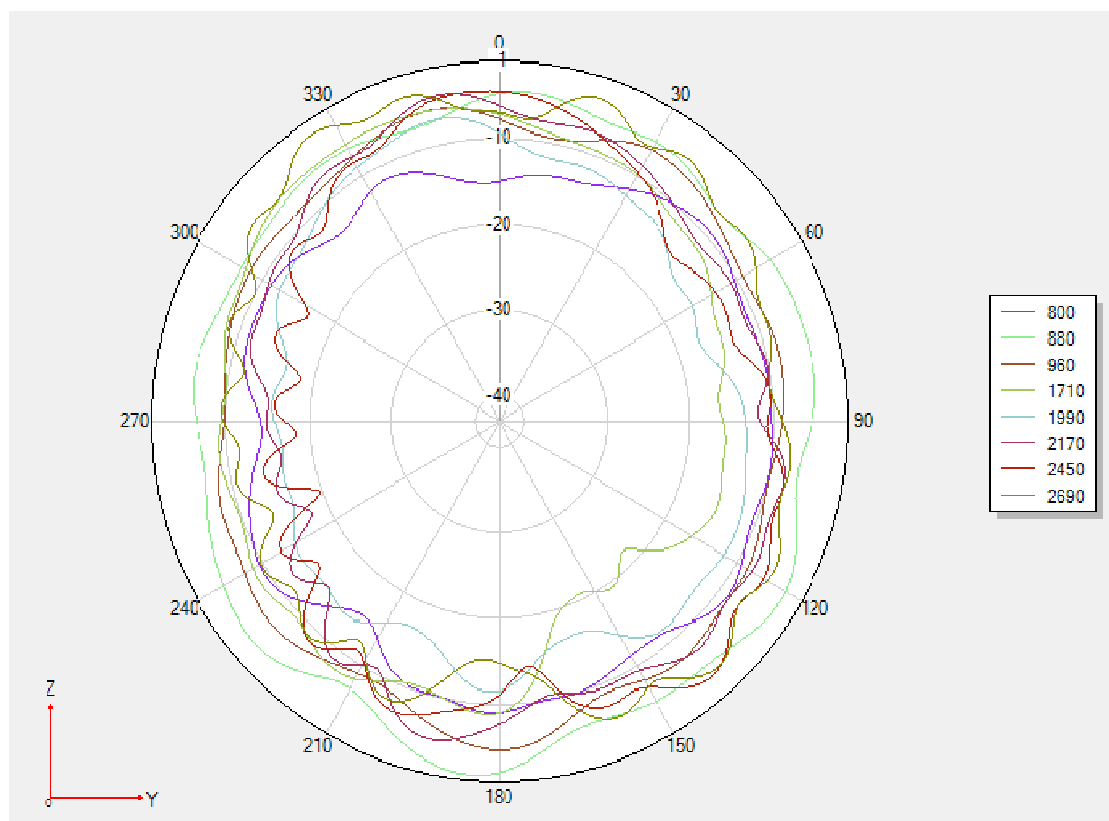


chart 8Phi 90 2D chart

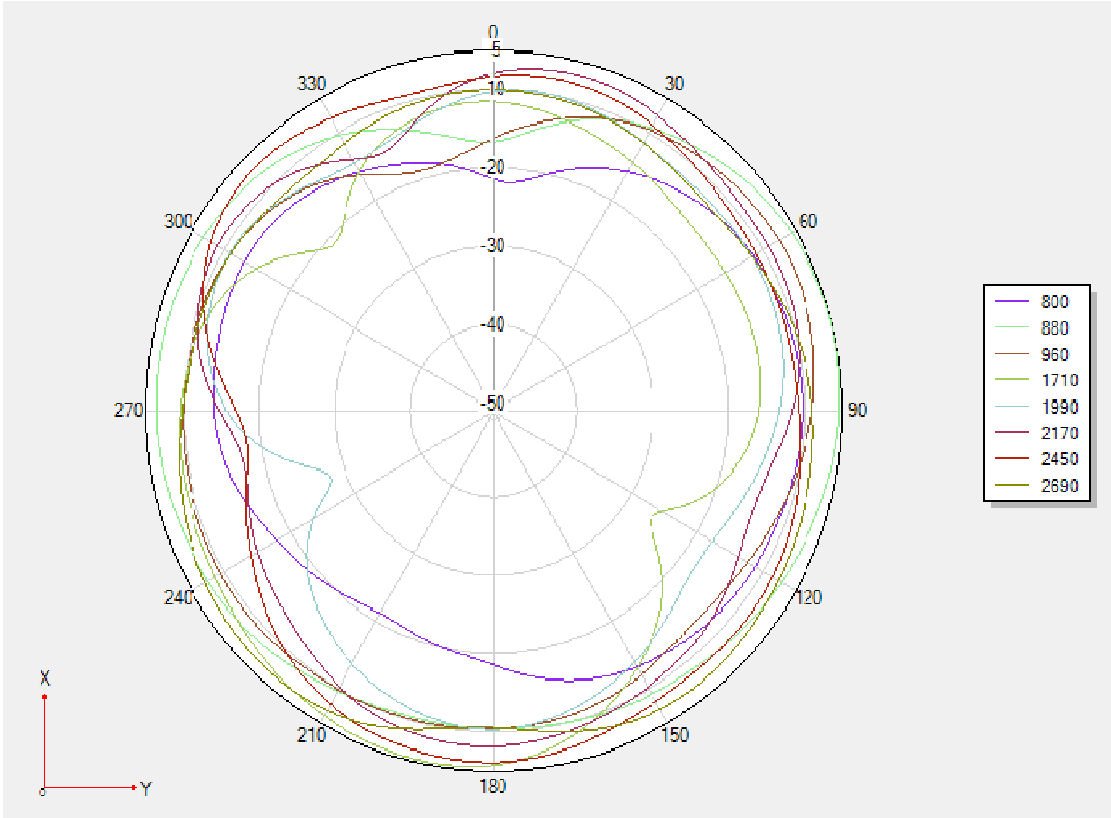


chart 9Theta 90 2D chart