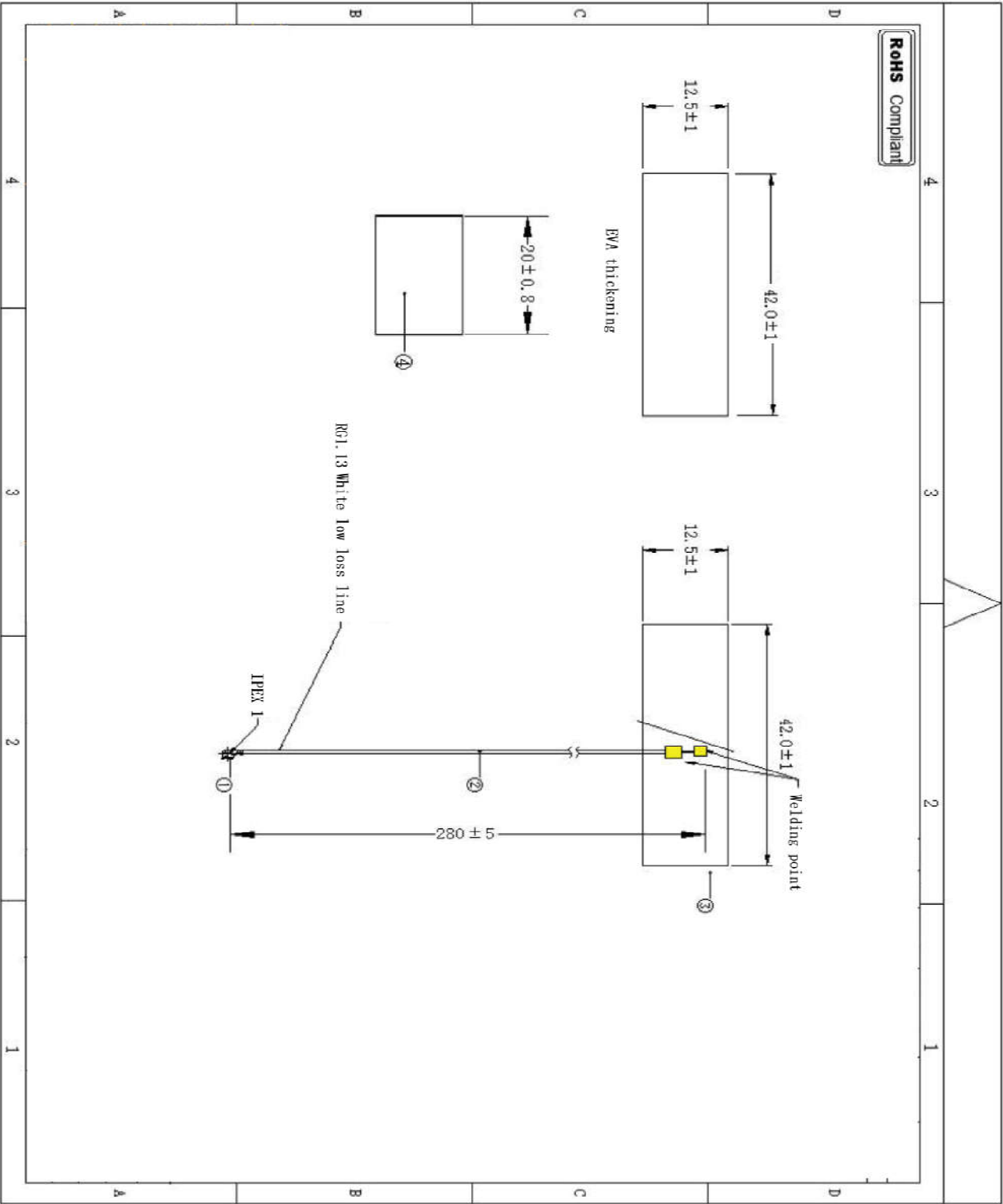
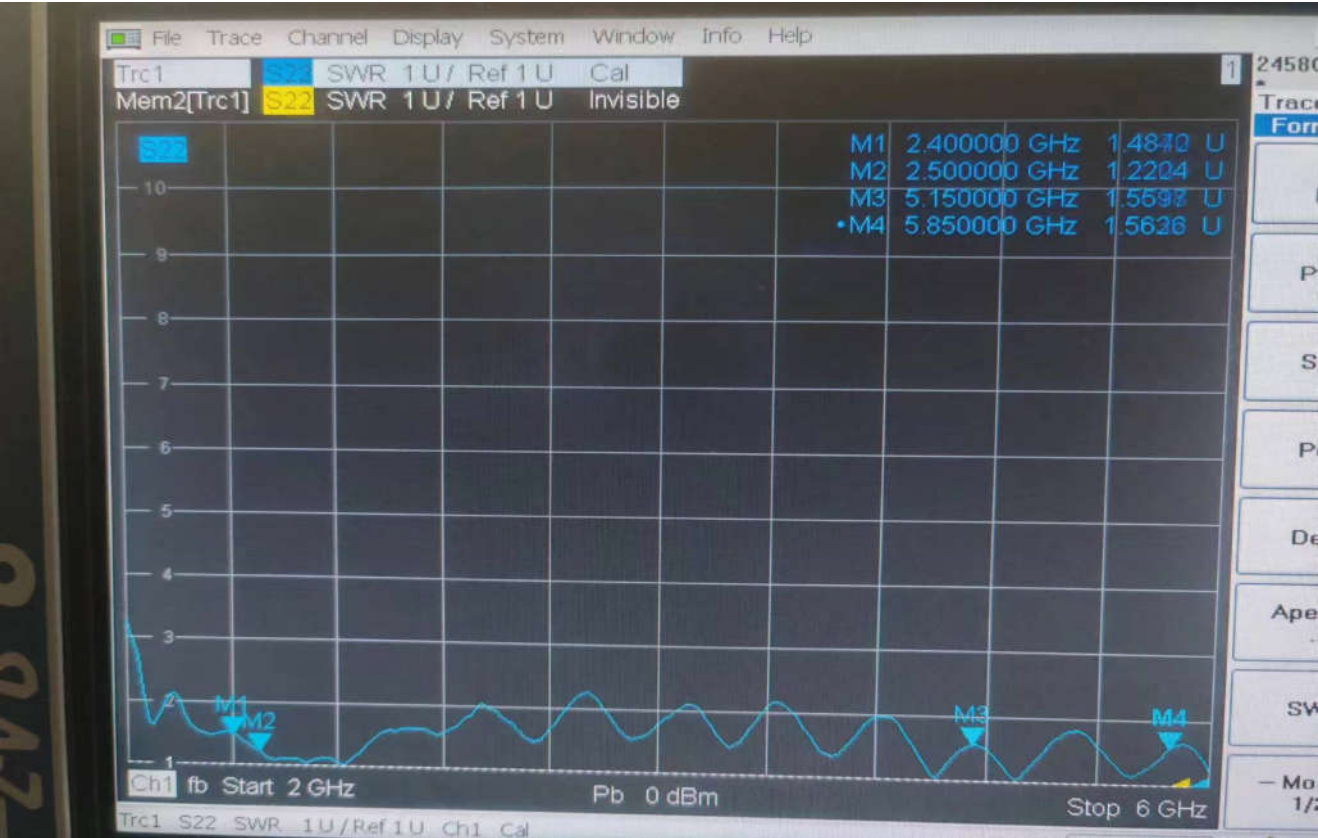


6150-028011-2T000021test report

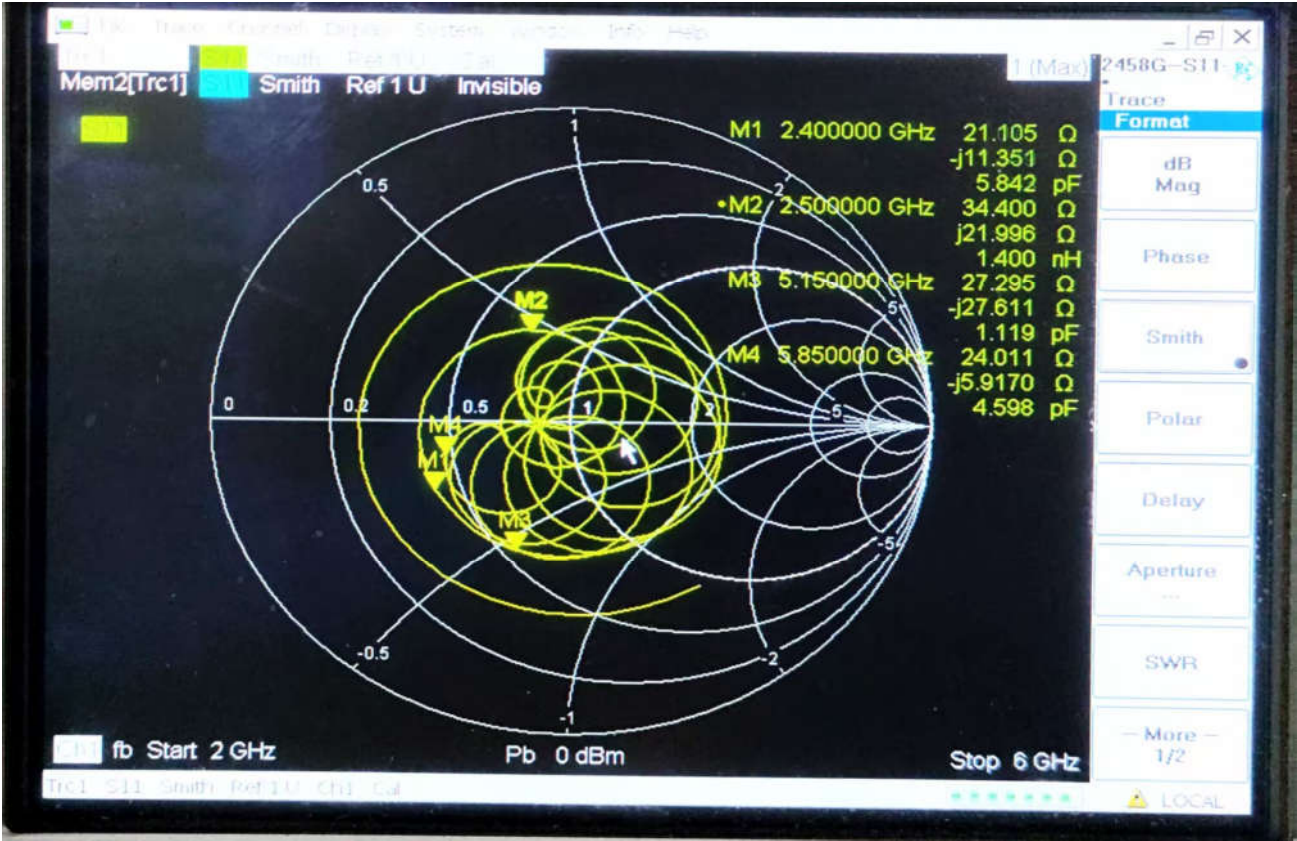
corporate name: Shenzhen Zhaohe Communication Technology Co., Ltd
Address: 2nd Floor, Building 6, No. 25 Wulian Road, Longxi Community, Longgang District, Shenzhen
Product Specification: IPEX 1- 1.13White-FPC-L280 Dual band WIFI Antenna
Product drawings:



Standing wave test diagram (with machine test):



Smith impedance diagram(Individual testing)

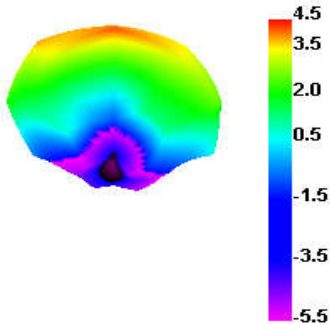


Antenna efficiency and gain test (with machine test)

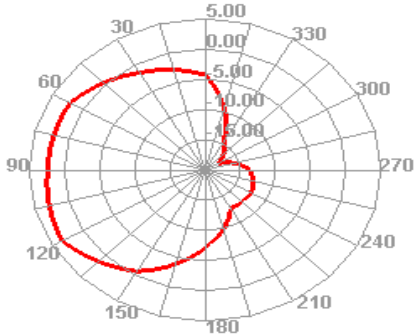
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	49.35	-3.07	4.55
2410	50.39	-2.98	4.85
2420	53.33	-2.73	5.08
2430	55.47	-2.56	5.04
2440	58.75	-2.31	4.97
2450	57.09	-2.43	4.71
2460	59.52	-2.25	4.89
2470	60.77	-2.16	5.05
2480	63.44	-1.98	5.49
2490	67.3	-1.72	5.95
2500	67.41	-1.71	5.93

Antenna radiation pattern(with machine test):

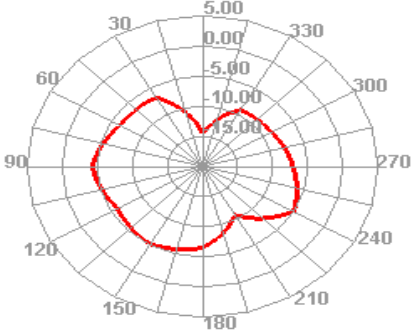
2400.000MHz



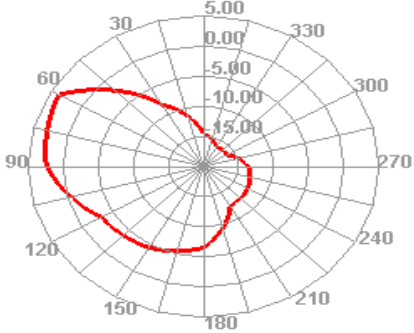
2400.000MHz H



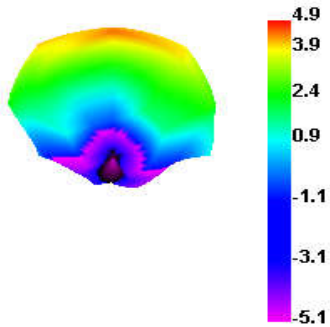
2400.000MHz E1



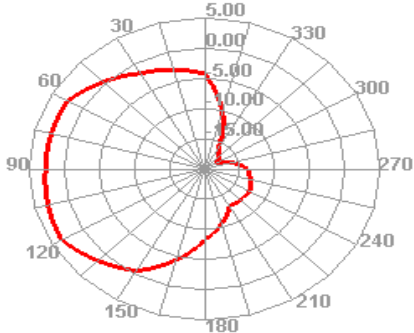
2400.000MHz E2



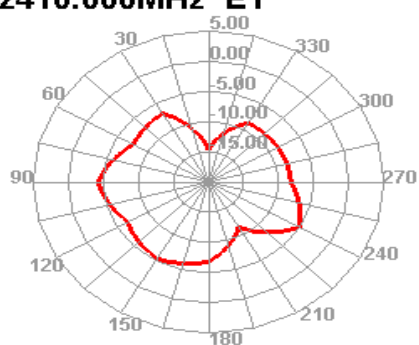
2410.000MHz



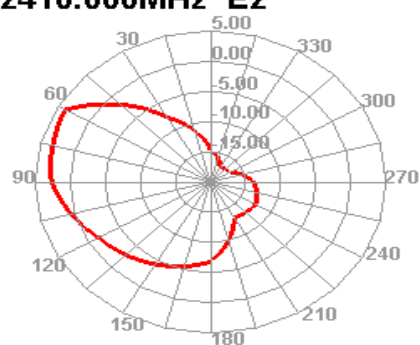
2410.000MHz H



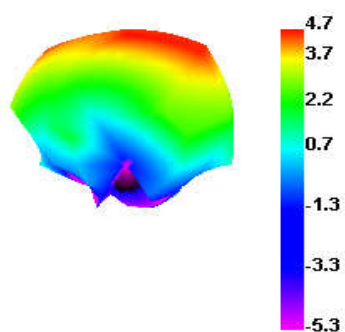
2410.000MHz E1



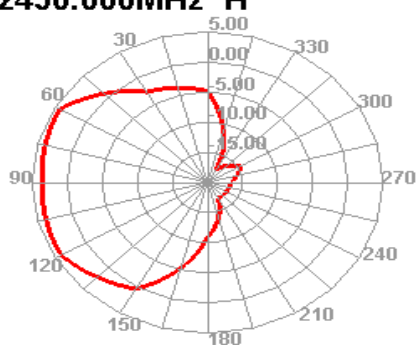
2410.000MHz E2



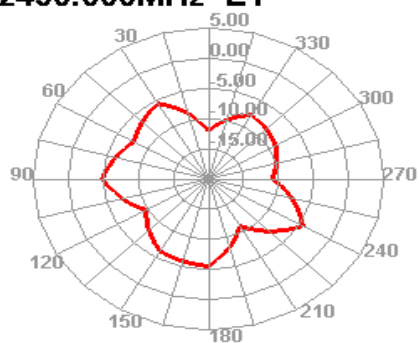
2450.000MHz



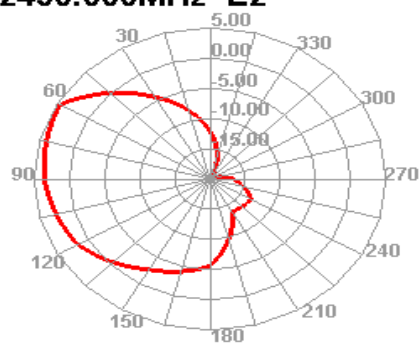
2450.000MHz H



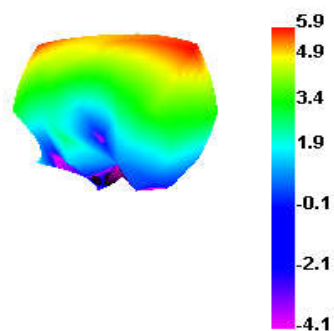
2450.000MHz E1



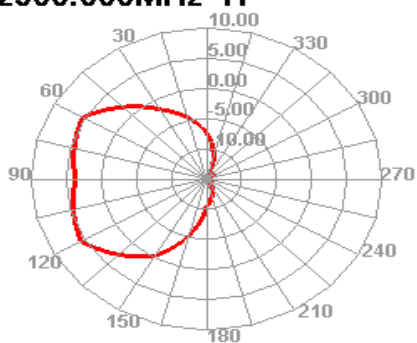
2450.000MHz E2



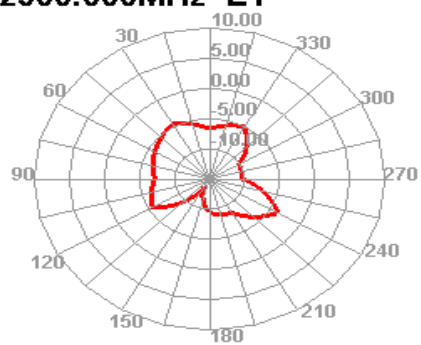
2500.000MHz



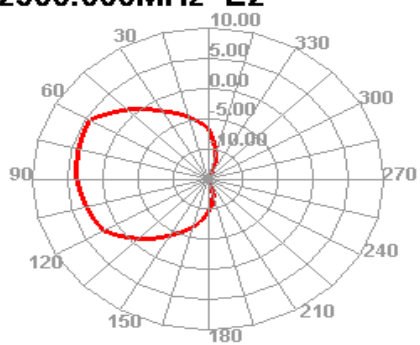
2500.000MHz H



2500.000MHz E1

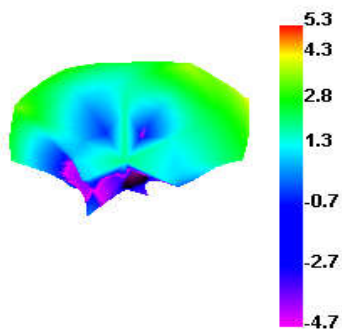


2500.000MHz E2

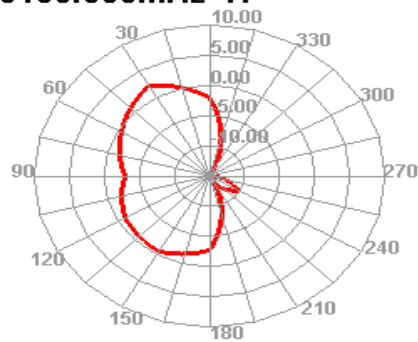


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	47.27	-3.25	5.34
5175	45.8	-3.39	5.21
5200	47.21	-3.26	5.04
5225	48.14	-3.18	4.98
5250	46.89	-3.29	4.85
5275	48.23	-3.17	4.89
5300	48.46	-3.15	4.92
5325	49.09	-3.09	4.92
5350	49.97	-3.01	4.86
5375	49.49	-3.05	4.98
5400	50.83	-2.94	5.22
5425	47.26	-3.25	4.96
5450	45.78	-3.39	4.99
5475	44.5	-3.52	4.6
5500	42.5	-3.72	3.95
5525	40.55	-3.92	3.51
5550	39.81	-4	3.44
5575	38.12	-4.19	3.87
5600	37.65	-4.24	4.46
5625	39.01	-4.09	4.88
5650	40.51	-3.92	5.43
5675	42.72	-3.69	5.79
5700	42.12	-3.76	5.64
5725	44.56	-3.51	5.85
5750	44.9	-3.48	5.75
5775	45.17	-3.45	5.56
5800	44.92	-3.48	5.38
5825	46.2	-3.35	5.27
5850	47.61	-3.22	5.16

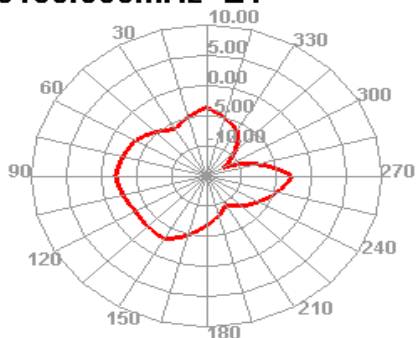
5150.000MHz



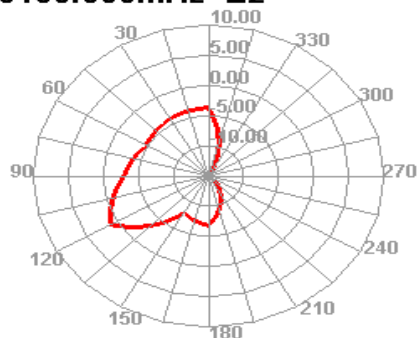
5150.000MHz H



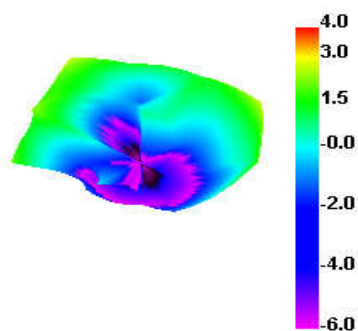
5150.000MHz E1



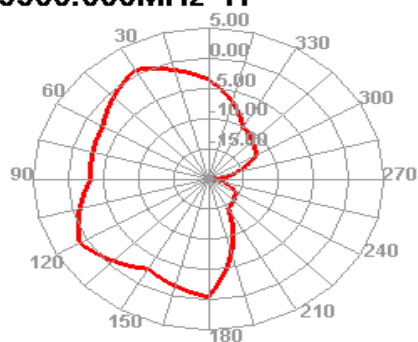
5150.000MHz E2



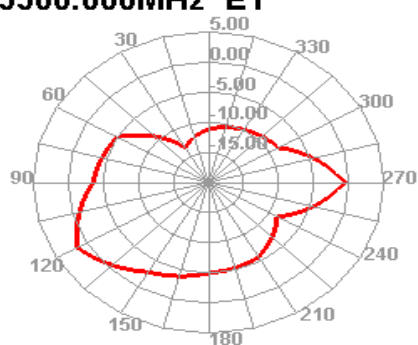
5500.000MHz



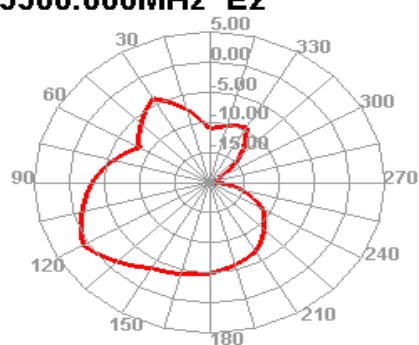
5500.000MHz H



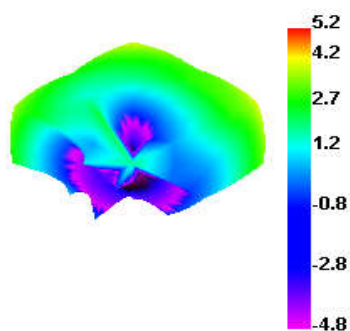
5500.000MHz E1



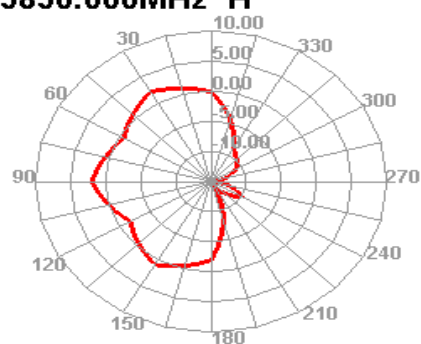
5500.000MHz E2



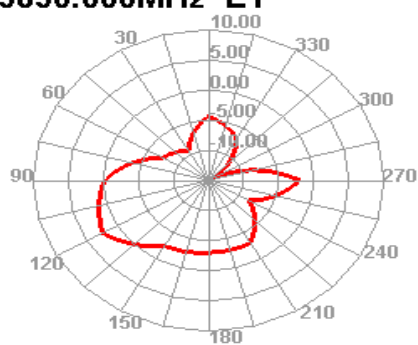
5850.000MHz



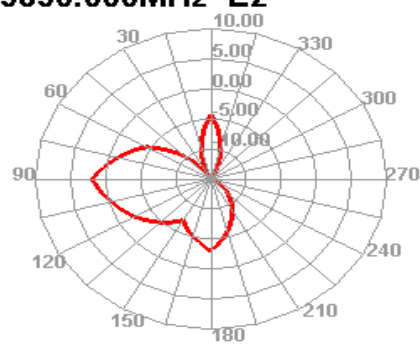
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



TRP and TIS

TX=11Mbps RX=11Mbps WIFI B		
Band		
Channel	Frequency	TRP(dB)
1	2.412 GHz	19.63
7	2.442 GHz	19.36
13	2.472 GHz	20.24
Channel	Frequency	TIS(dB)
1	2.412 GHz	-85.41
7	2.442 GHz	-78.56
13	2.472 GHz	-85.32

TX=54Mbps RX=54Mbps WIFI A		
Band		
Channel	Frequency	TRP(dB)
36	5.18 GHz	19.05
64	5.32GHz	18.39
149	5.745 GHz	18.24
157	5.785 GHz	18.53
Channel	Frequency	TIS(dB)
36	5.18 GHz	-74.9
64	5.32GHz	-75.78
149	5.745 GHz	-74.62
157	5.785 GHz	-74.03