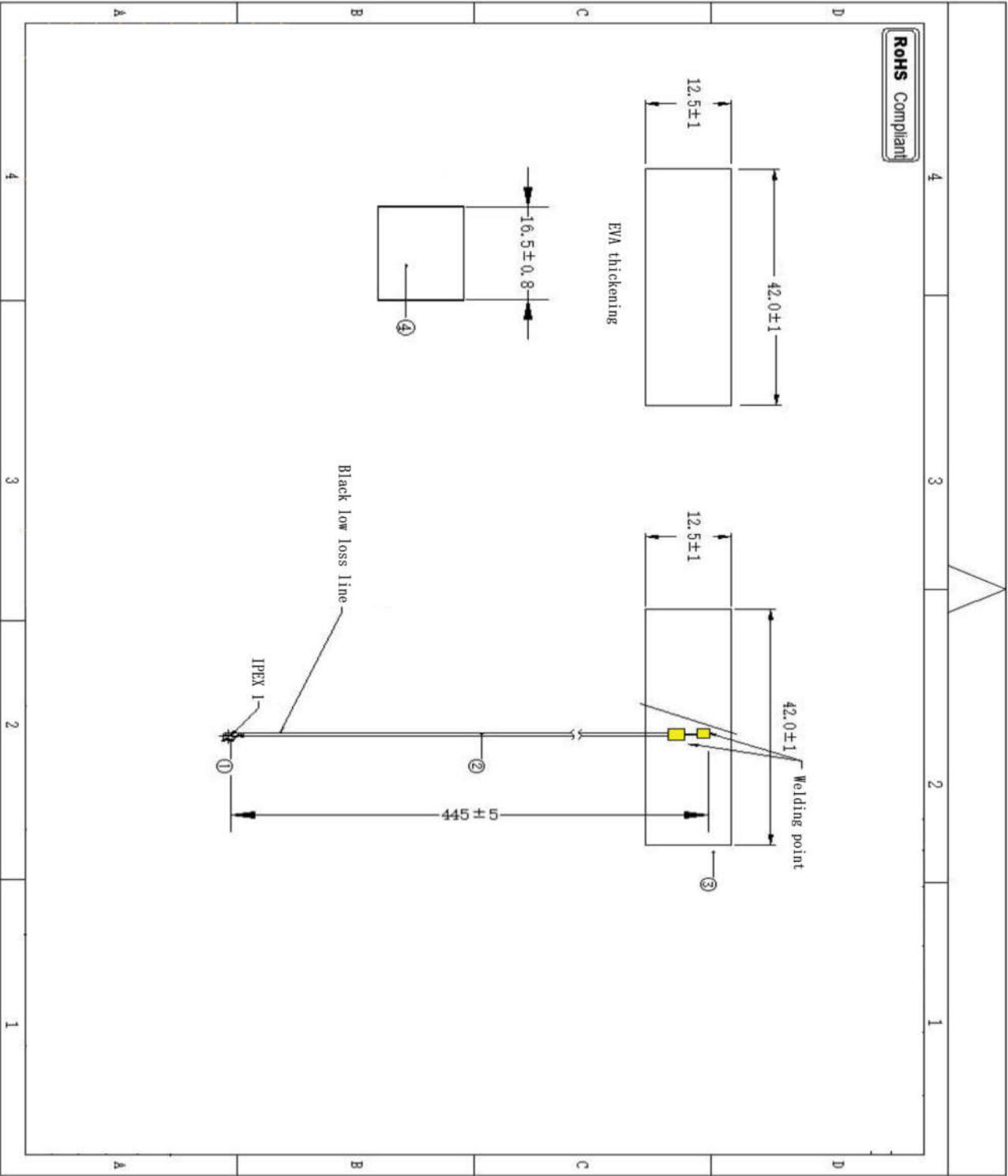
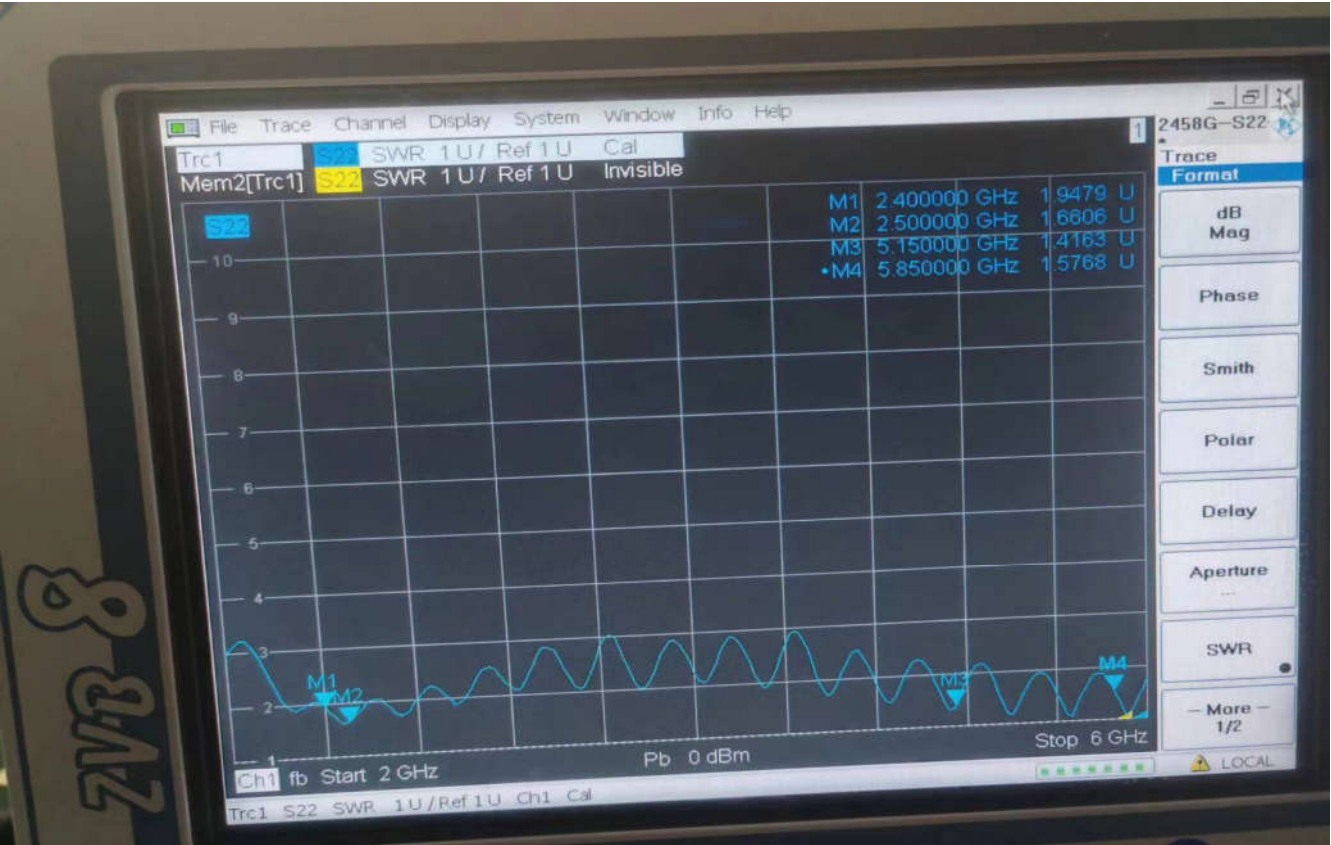


6150-044511-2T000001test report

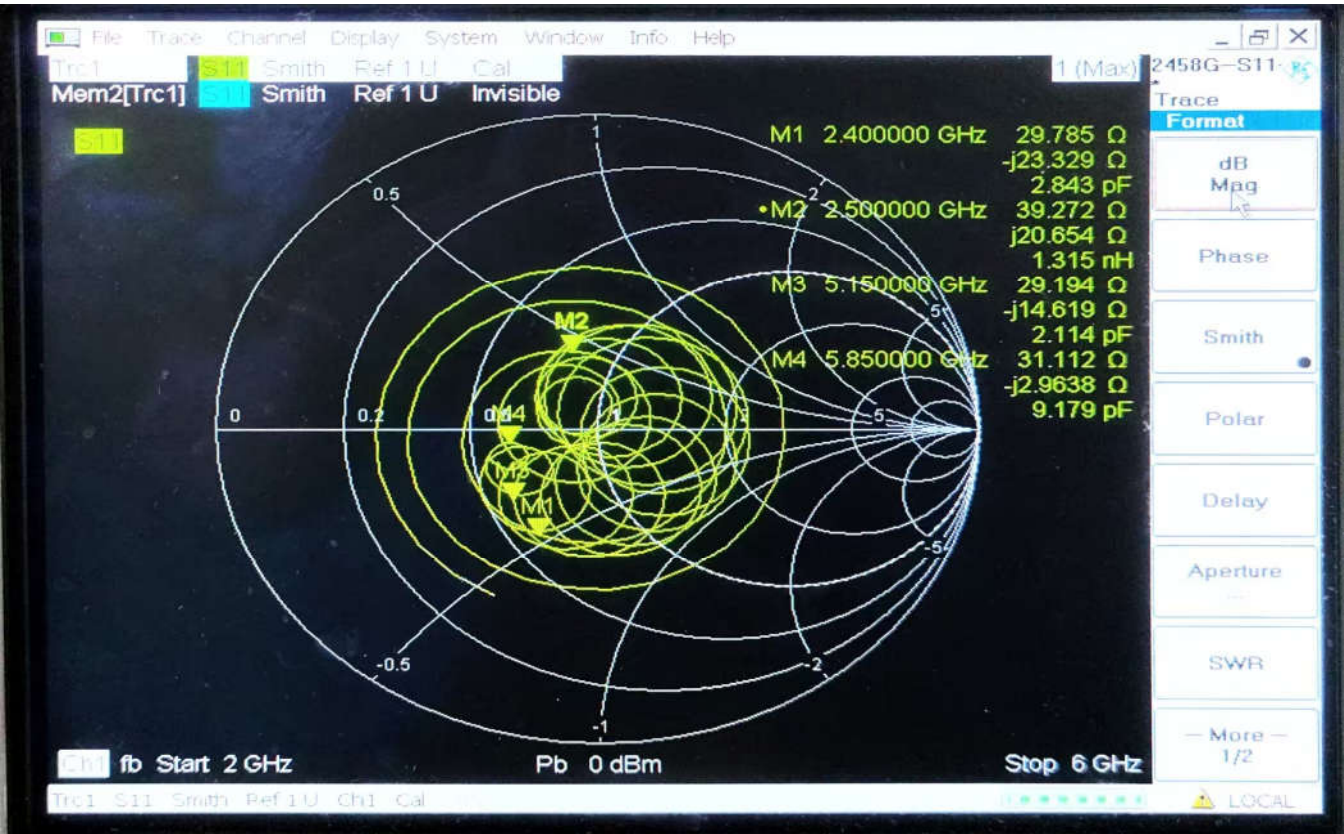
corporate name: Shenzhen Zhaohe Communication Technology Co., Ltd
Address: 2nd Floor, Building 6, No. 25 Wulian Road, Longxi Community, Longgang District, Shenzhen
Product Specification: IPEX 1- 1.13 Black-FPC-L445 Dual band WIFI Antenna
Product drawings:



Standing wave test diagram (with machine test):



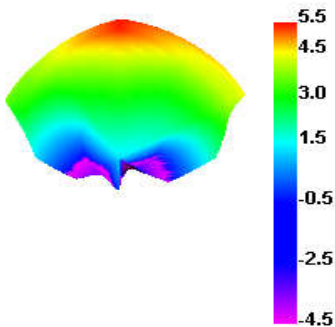
Smith impedance diagram(Individual testing)



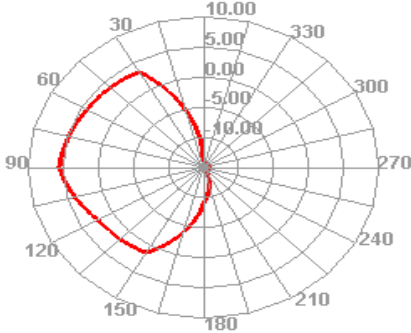
Antenna efficiency and gain test (with machine test)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	65.57	-1.83	5.54
2410	64.61	-1.9	5.48
2420	64.37	-1.91	5.5
2430	64.1	-1.93	5.62
2440	64.62	-1.9	5.79
2450	60.58	-2.18	5.62
2460	60.86	-2.16	5.65
2470	61.02	-2.15	5.62
2480	62.68	-2.03	5.71
2490	65.66	-1.83	5.93
2500	64.23	-1.92	5.77

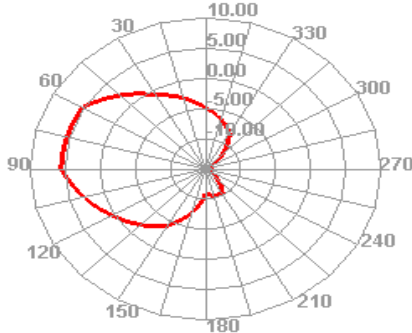
Antenna radiation pattern(with machine test):
2400.000MHz



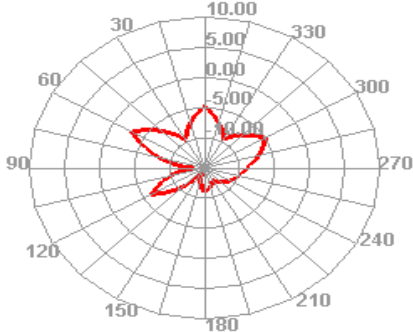
2400.000MHz H



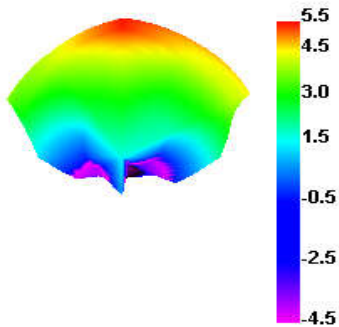
2400.000MHz E2



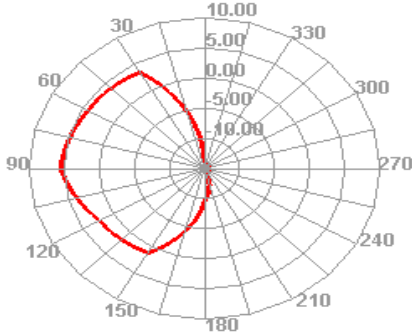
2400.000MHz E1



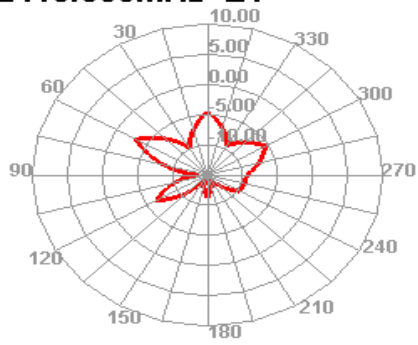
2410.000MHz



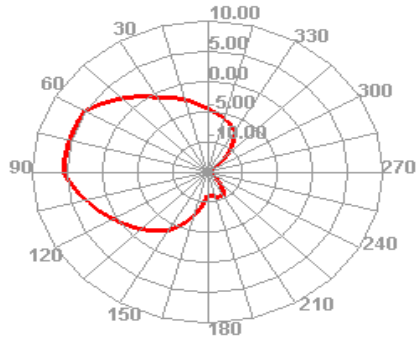
2410.000MHz H



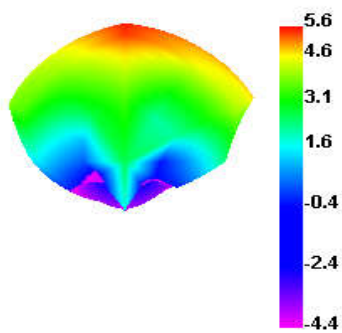
2410.000MHz E1



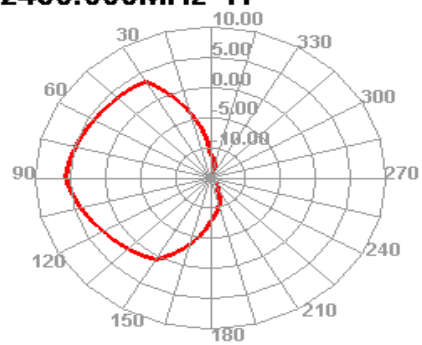
2410.000MHz E2



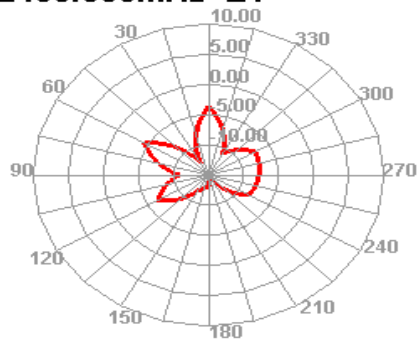
2450.000MHz



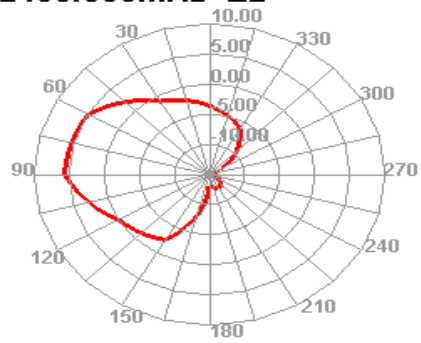
2450.000MHz H



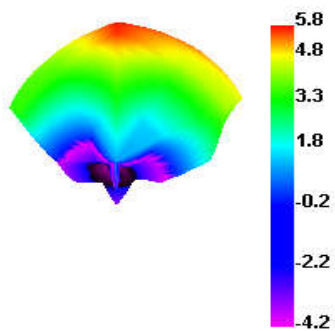
2450.000MHz E1



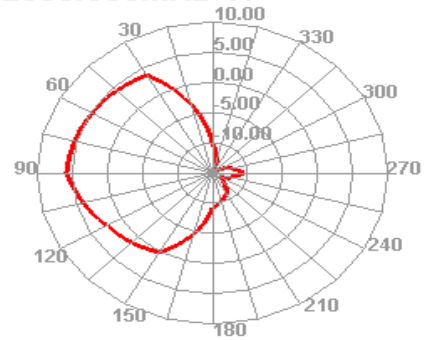
2450.000MHz E2



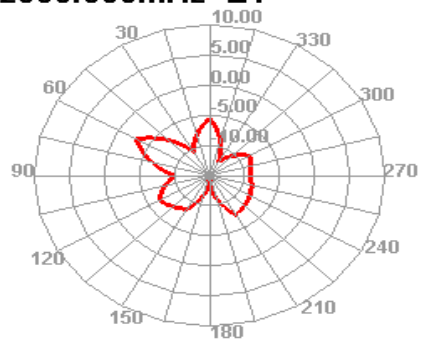
2500.000MHz



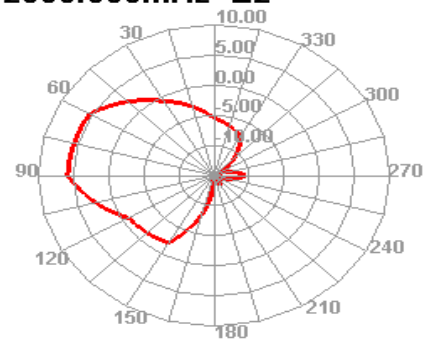
2500.000MHz H



2500.000MHz E1

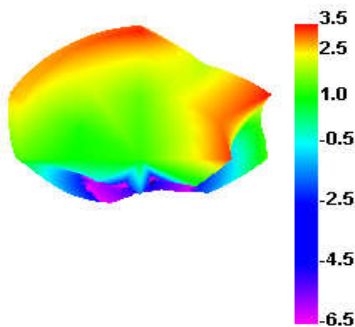


2500.000MHz E2

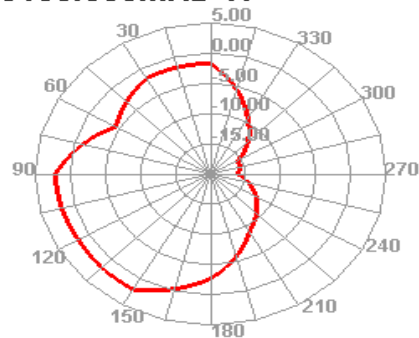


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	51.87	-2.85	3.51
5175	50.11	-3	4
5200	51.21	-2.91	4.55
5225	52.42	-2.8	4.81
5250	52.22	-2.82	4.92
5275	53.55	-2.71	5.14
5300	51.24	-2.9	5.04
5325	50.2	-2.99	5.26
5350	51.09	-2.92	5.75
5375	52.1	-2.83	6.02
5400	54.11	-2.67	6.27
5425	51.33	-2.9	6.17
5450	49.97	-3.01	6.08
5475	48.58	-3.14	6.05
5500	47.72	-3.21	5.91
5525	47.71	-3.21	5.74
5550	49.27	-3.07	5.8
5575	48.5	-3.14	5.69
5600	48.04	-3.18	5.57
5625	48.34	-3.16	5.43
5650	48.06	-3.18	5.3
5675	50.6	-2.96	5.4
5700	50.74	-2.95	5.21
5725	55.37	-2.57	5.46
5750	56.53	-2.48	5.54
5775	56.76	-2.46	5.58
5800	55.86	-2.53	5.71
5825	56.76	-2.46	5.86
5850	57.2	-2.43	5.95

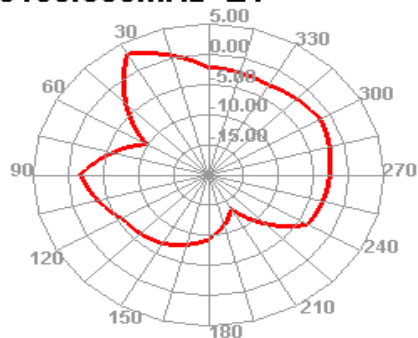
5150.000MHz



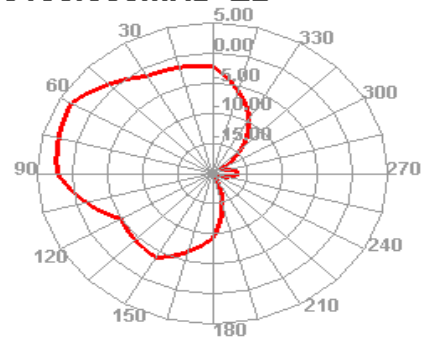
5150.000MHz H



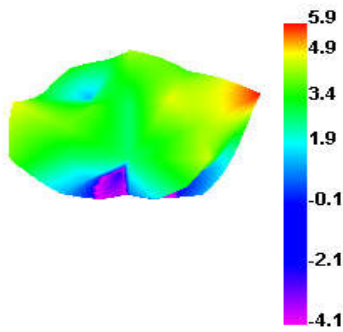
5150.000MHz E1



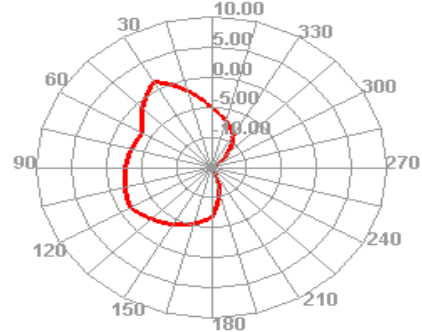
5150.000MHz E2



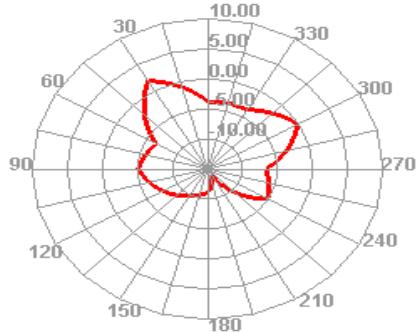
5500.000MHz



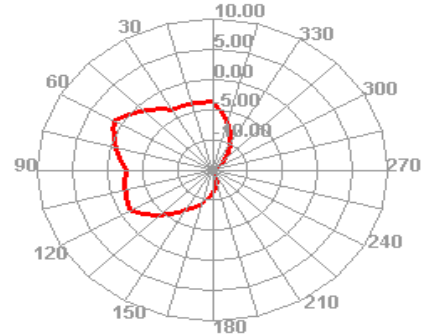
5500.000MHz H



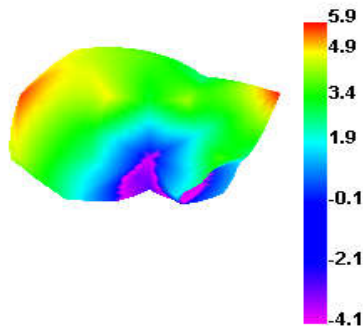
5500.000MHz E1



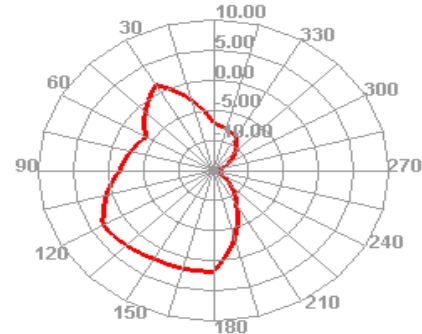
5500.000MHz E2



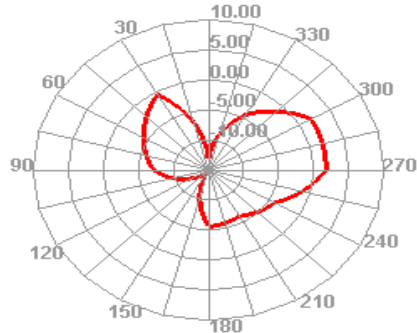
5850.000MHz



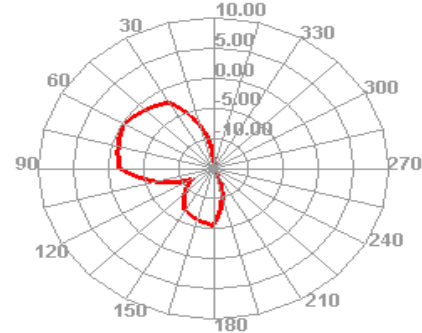
5850.000MHz H



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