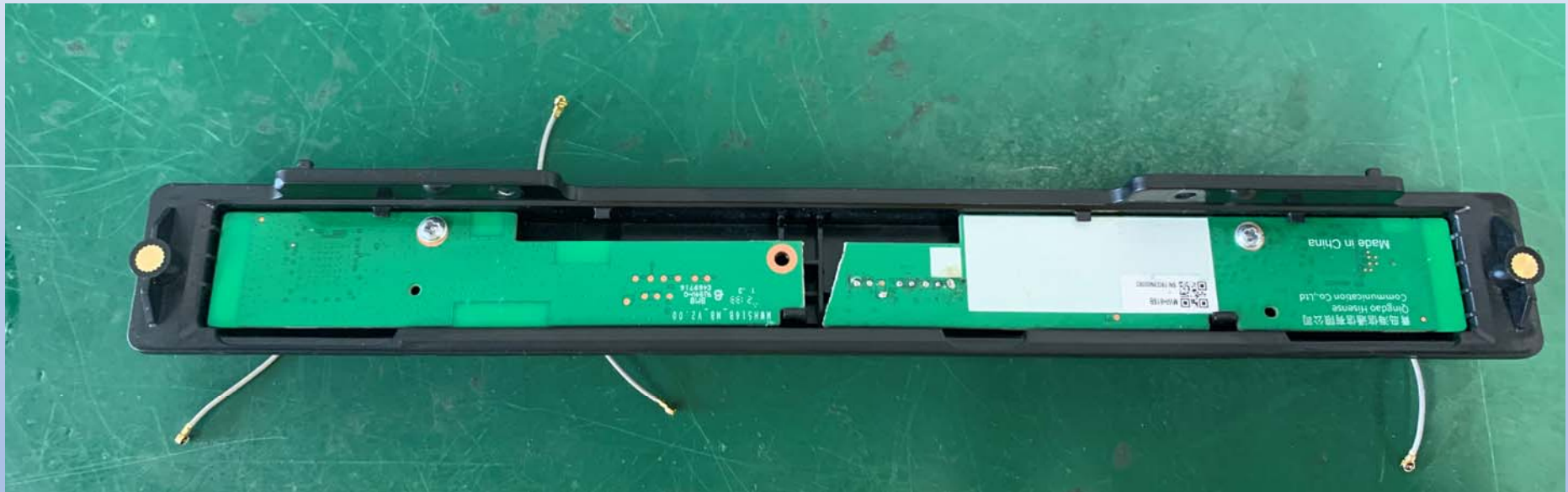




Hanyang Antenna Design Co., Ltd.  
深圳汉阳天线设计有限公司

# 516B ANT Report

2021.10.07

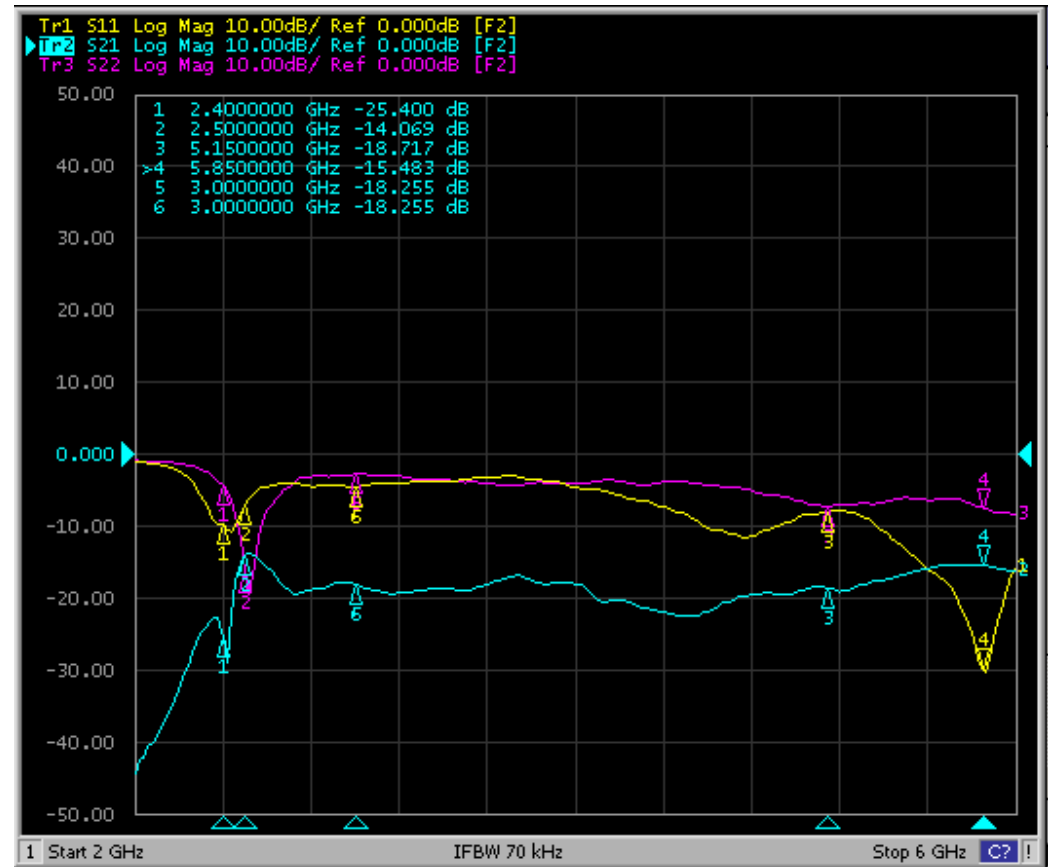




7663BU

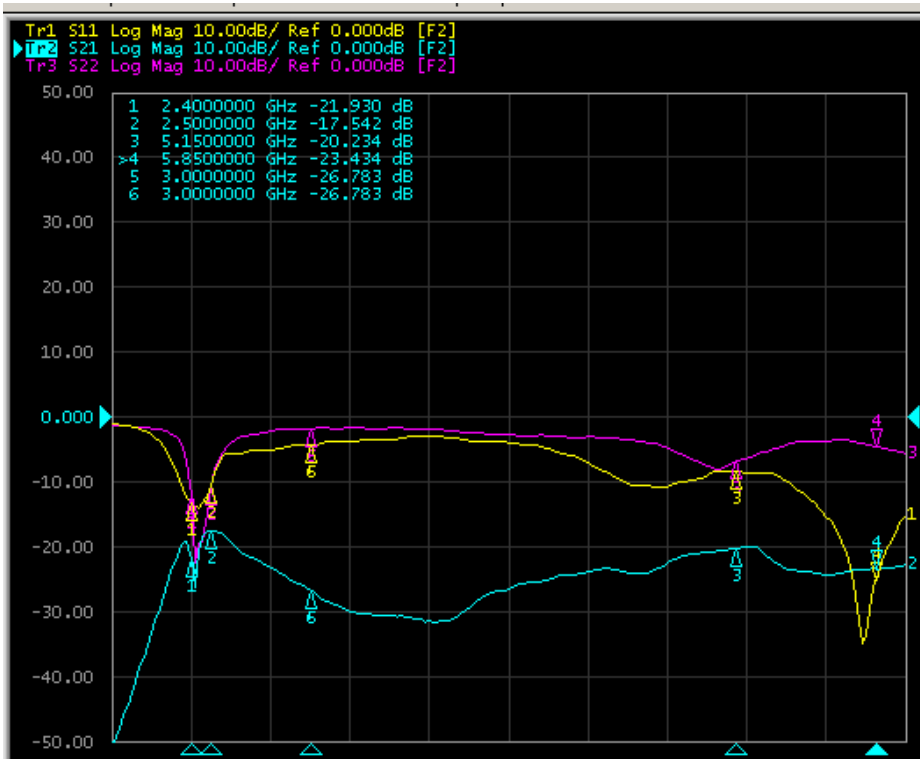


S11 S22 S21



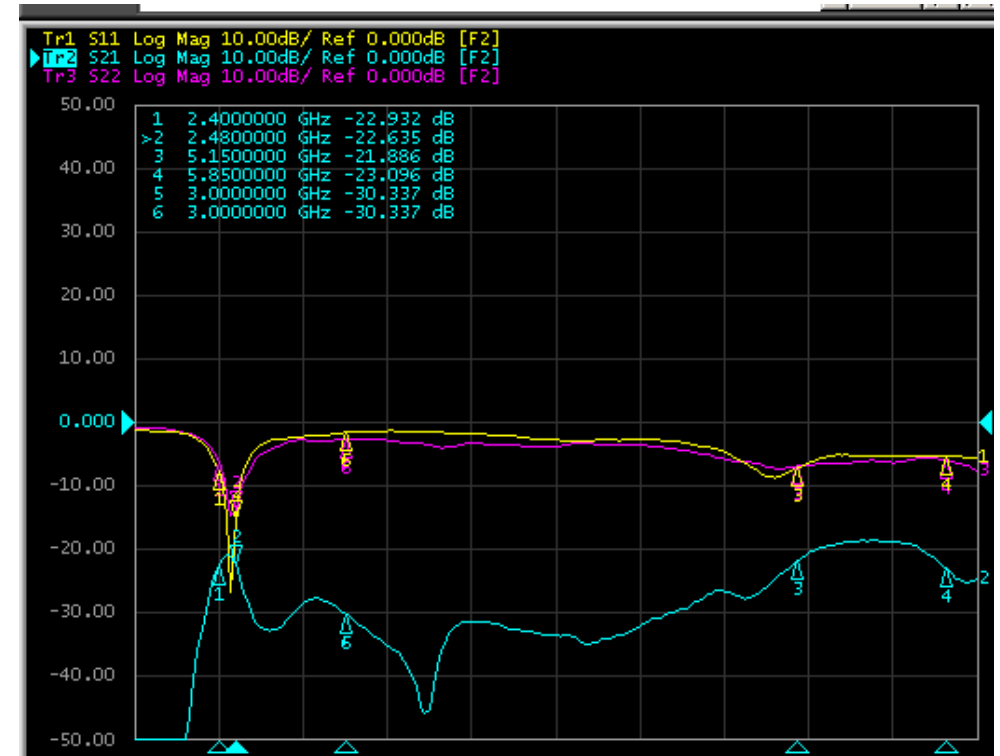
**S33 S13 S23**

**ANT-1(WLAN ANT-1) & ANT-3 (BT ANT)**



**Maximum of S12 => -21.9dB**

**ANT-2(WLAN ANT-2) & ANT-3 (BT ANT)**



**Maximum of S12 => -22.6dB**



## Efficiency\_ANT1\_WiFi1

Frequency	eff_dB	eff-percent
2400	-3.74	42.26
2420	-3.37	46.07
2440	-3.37	45.99
2460	-3.19	47.98
2480	-3.37	46.04
2500	-3.51	44.6

Frequency	eff_dB	eff-percent
5150	-2.43	57.17
5200	-2.79	52.57
5250	-2.83	52.12
5300	-2.92	51.06
5350	-2.65	54.28
5400	-2.76	52.98
5450	-2.64	54.48
5500	-2.67	54.12
5550	-2.77	52.83
5600	-2.67	54.01
5650	-2.72	53.51
5700	-2.7	53.65
5750	-3.27	47.11
5800	-2.77	52.8
5850	-2.95	50.67

Gain:  
ANT1 (WiFi0) : 2.4G :0.3 dBi ; 5G: 0.5dBi;



## Efficiency\_ANT2 \_WiFi2

Frequency	eff_dB	eff-percent
2400	-2.96	50.59
2420	-3.2	47.84
2440	-2.51	56.11
2460	-2.7	53.72
2480	-2.26	59.39
2500	-2.78	52.75

Frequency	eff_dB	eff-percent
5150	-2.1	61.73
5200	-1.98	63.44
5250	-2.2	60.24
5300	-2.03	62.62
5350	-2.21	60.18
5400	-2.31	58.68
5450	-2.36	58.01
5500	-2.31	58.76
5550	-2.28	59.16
5600	-2.42	57.27
5650	-2.51	56.04
5700	-2.54	55.69
5750	-2.6	54.91
5800	-2.67	54.14
5850	-2.76	52.93

Gain:  
ANT2 (WiFi1) : 2.4G : 0.2 dBi; 5G: 0.45 dBi ;



**Efficiency\_ANT3  
\_BT**

**Gain :**  
**BT:-0.5dBi**

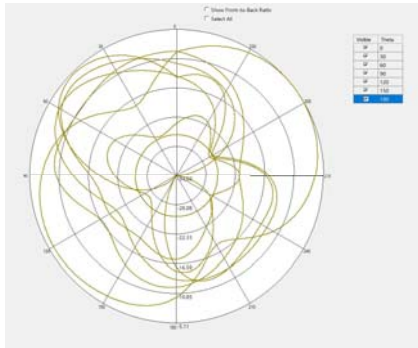
Frequency	eff_dB	eff-percent
2400	-4.88	32.48
2420	-4.48	35.66
2440	-3.98	40.04
2460	-3.81	41.59
2480	-3.94	40.34
2500	-4.15	38.49
2520	-4.33	36.91



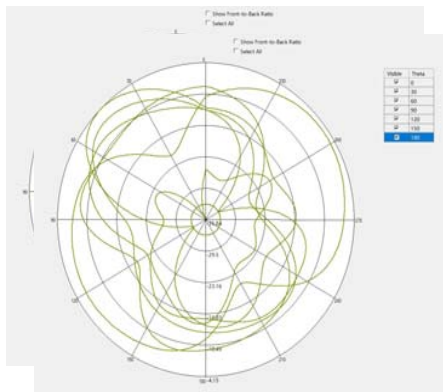


ANT 2

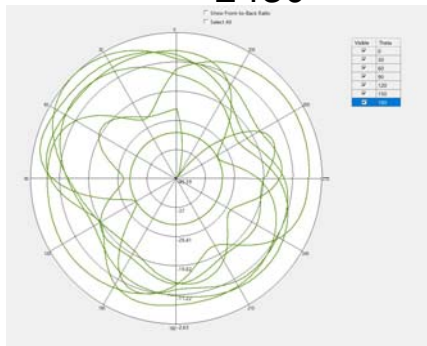
2412



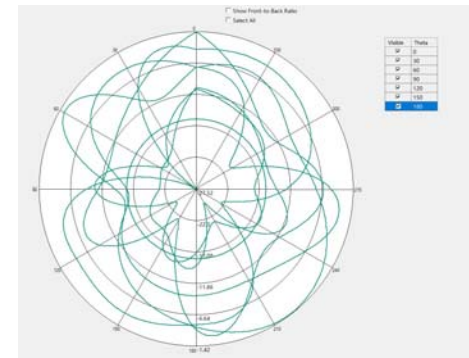
2450



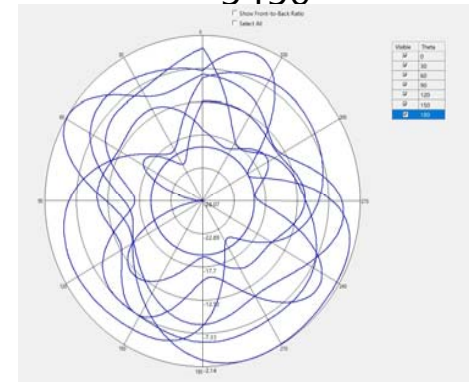
2400



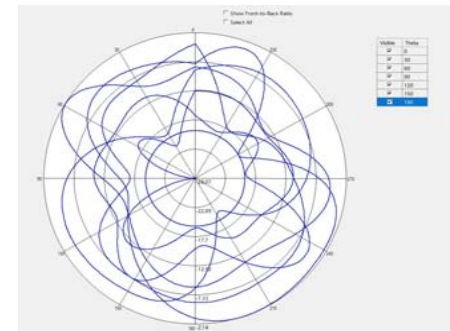
5150



5450

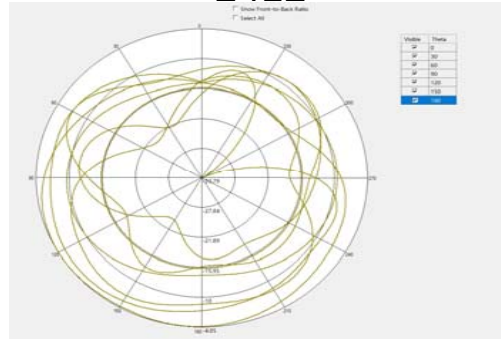


5750

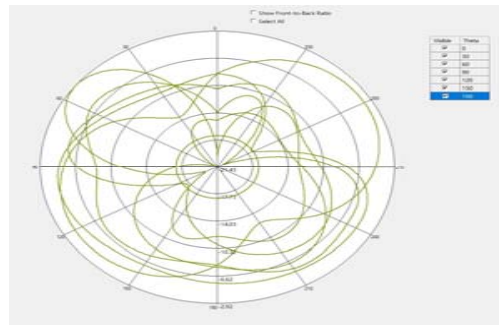


BT

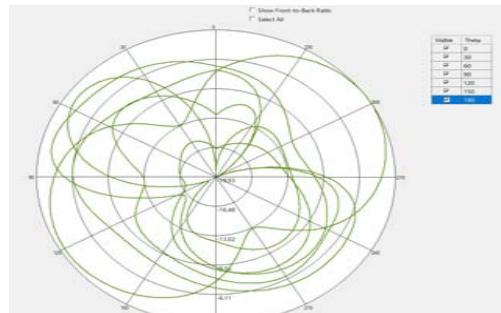
2412



2450



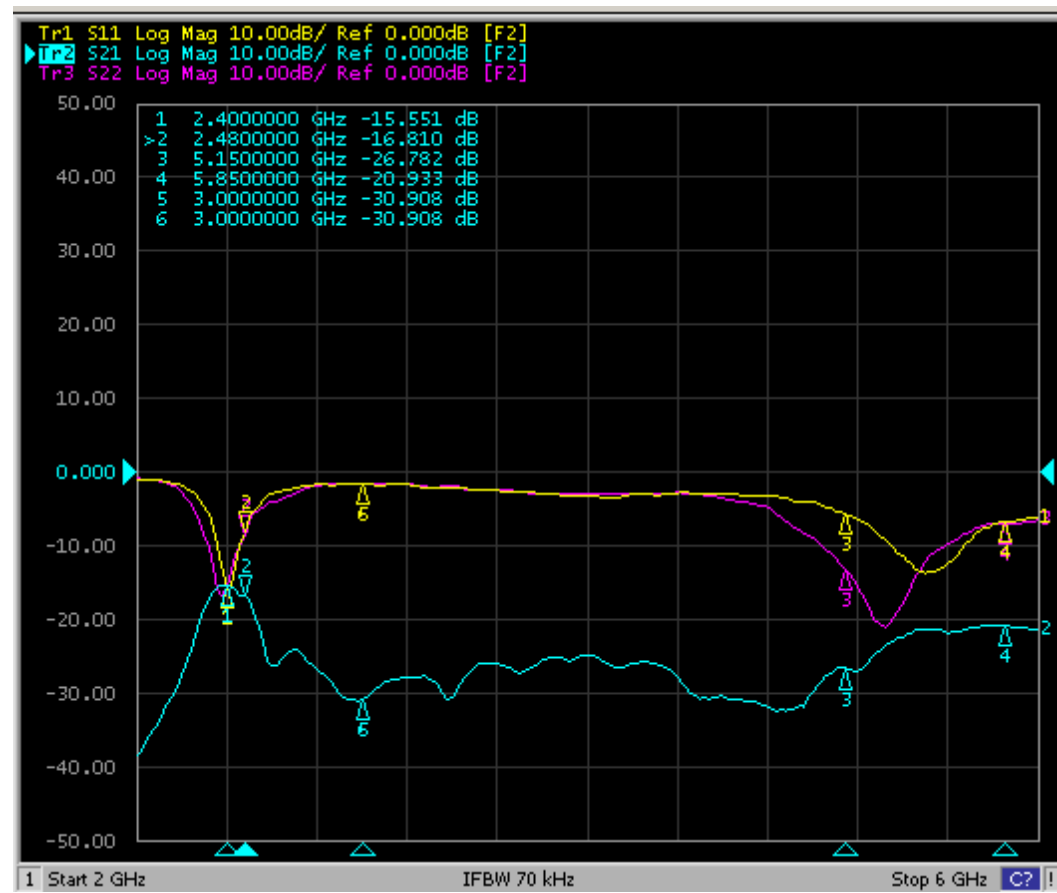
2480





8822CU

S44 S55 S45



天线隔离度大于-15dB



**Efficiency\_ANT4  
\_WiFi1**

Frequency	eff_dB	eff-percent
2400	-3.37	46.07
2420	-3.37	45.99
2440	-3.19	47.98
2460	-3.37	46.04
2480	-3.51	44.6
2500	-3.4	45.69
2520	-3.24	47.47
2540	-3.05	49.59

Frequency	eff_dB	eff-percent
5100	-1.78	66.35
5160	-2.13	61.25
5220	-2.54	55.67
5280	-2.7	53.74
5340	-2.97	50.42
5400	-2.54	55.75
5460	-2.55	55.59
5520	-2.24	59.71
5580	-2.52	55.92
5640	-2.33	58.54
5700	-2.58	55.27
5760	-2.71	53.58
5820	-2.77	52.9
5880	-2.43	57.21

Gain:

ANT3 (WiFi0) : 2.4G :0.2 dBi ; 5G: 0.35dBi;

**Efficiency\_ANT5  
\_WiFi2**

Frequency	eff_dB	eff-percent
2400	-3.02	49.83
2420	-3.56	44.05
2440	-2.94	50.87
2460	-3.43	45.34
2480	-3.2	47.84
2500	-3.41	45.58
2520	-3.24	47.43
2540	-3.33	46.45

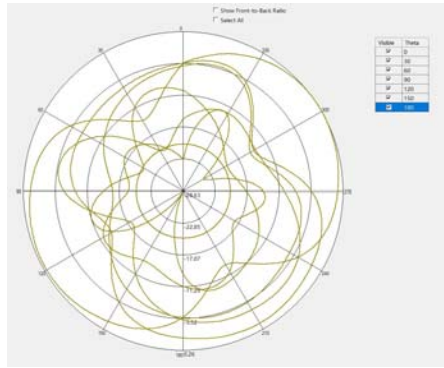
Frequency	eff_dB	eff-percent
5100	-1.39	72.64
5160	-1.52	70.53
5220	-1.63	68.64
5280	-1.71	67.44
5340	-1.84	65.41
5400	-1.47	71.34
5460	-1.55	69.95
5520	-1.17	76.39
5580	-1.48	71.15
5640	-1.41	72.31
5700	-1.7	67.58
5760	-1.77	66.59
5820	-1.74	66.92
5880	-1.21	75.66

Gain:

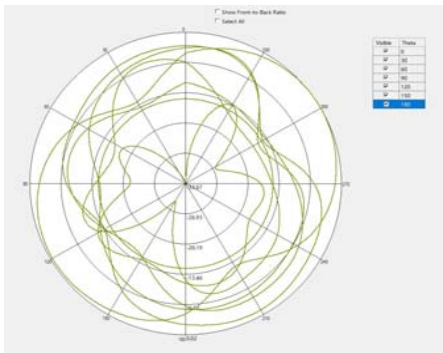
ANT4 (WiFi1) : 2.4G : 0.25 dBi; 5G: 0.4dBi ;

ANT 4

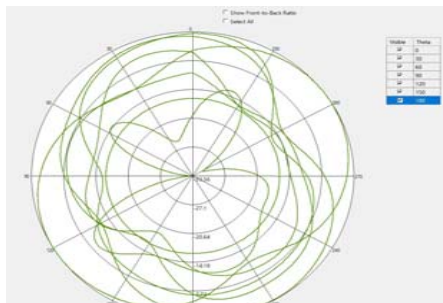
2412



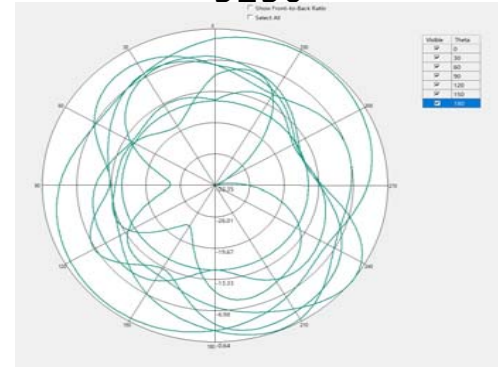
2450



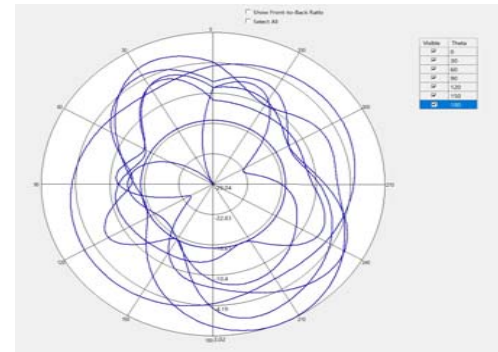
2480



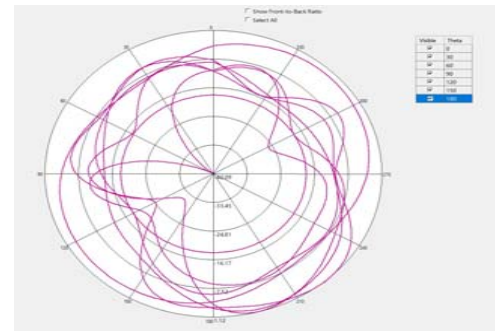
5150



5450



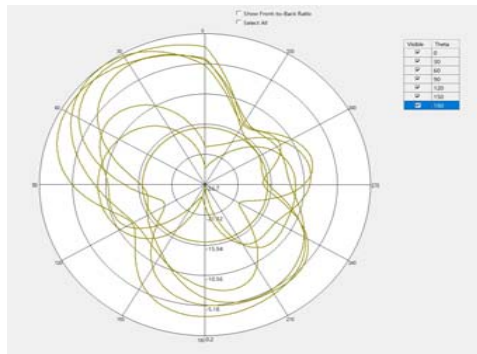
5750



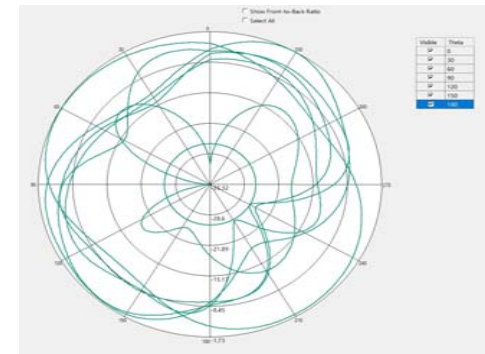


# ANT 5

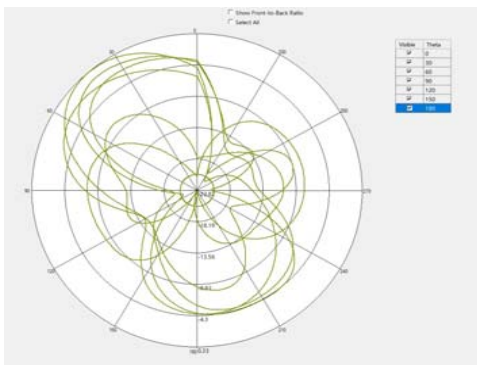
## 2412



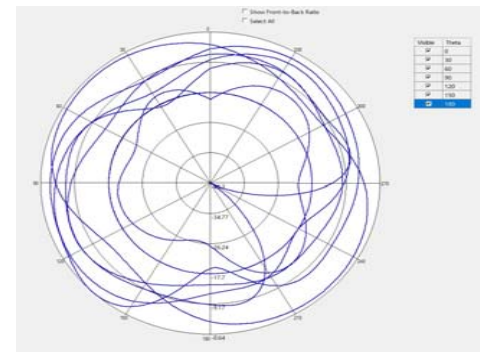
## 5150



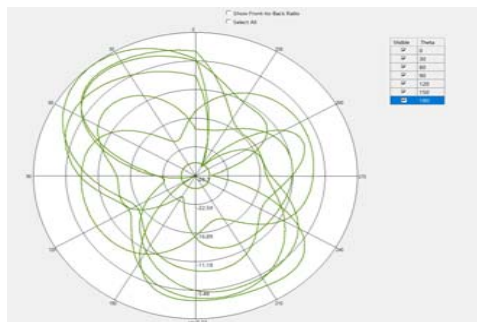
## 2450



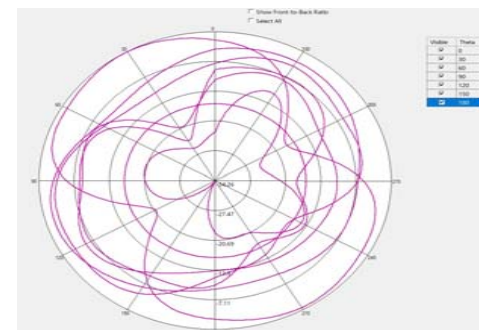
## 5450



## 2480



## 5750





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# Thank You!