



深圳云里物里科技股份有限公司
产品天线测试报告 (The Antenna Test Report)

Y-YB-CR-115

V001

密级: 绝密 /confidentiality

Antenna Coding: YJC-6N090-B15

Antenna Type: FPC Antenna

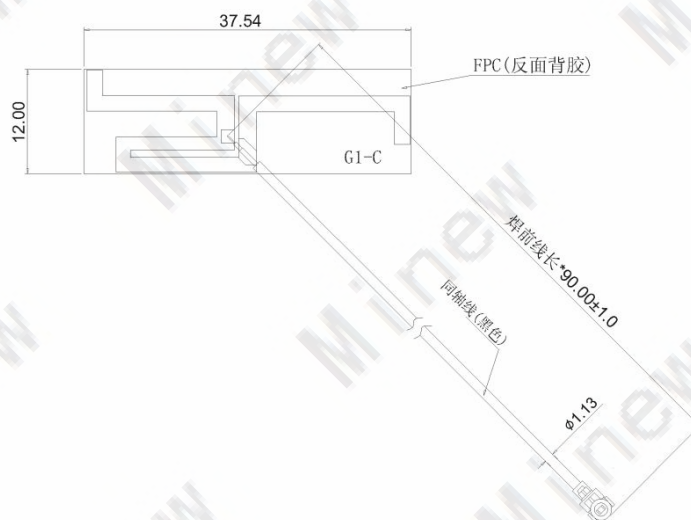
Model of the DUT: G1-E

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

1、Technical Specification

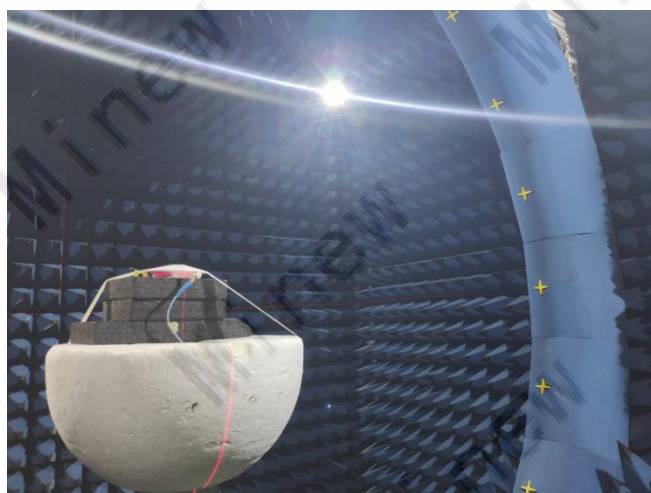
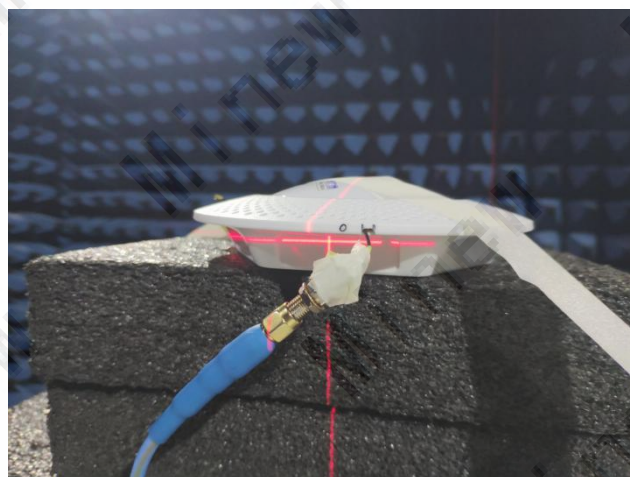
Electrical Specifications	
Frequency Range (MHz)	2402-2480
Input Impedance (Ω)	50
Return Loss (dB)	WIFI: <-10 BLE0: <-10 BLE1: <-10 BLE2: <-10
VSWR	WIFI: <2 BLE0: <2 BLE1: <2 BLE2: <2
Peak Gain (dBi)	WIFI: 7.95 BLE0: 4.70 BLE1: 4.91 BLE2: 5.06
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	37.54*12
Radiator	Cuprum

2、The shape and size of the antenna



3、 The result of the test

3.1 Test Environment



3.2 Gain and Efficiency

EUT Type	G1-E-6101		
Note	WIFI		
Frequency	E Total. dB(dBi)	Efficiency()	Peak Gain
2400MHz	6.94	76%	7.95411
2402MHz	6.93	76%	
2404MHz	6.91	76%	
2406MHz	6.96	77%	
2408MHz	7.00	77%	
2410MHz	7.02	77%	
2412MHz	6.95	78%	
2414MHz	7.00	78%	
2416MHz	7.02	78%	
2418MHz	7.06	78%	
2420MHz	7.09	78%	
2422MHz	7.17	78%	
2424MHz	7.25	79%	
2426MHz	7.24	79%	
2428MHz	7.30	79%	
2430MHz	7.36	79%	
2432MHz	7.41	80%	
2434MHz	7.47	80%	
2436MHz	7.50	80%	
2438MHz	7.54	80%	
2440MHz	7.58	81%	
2442MHz	7.59	81%	
2444MHz	7.59	81%	
2446MHz	7.60	81%	
2448MHz	7.59	81%	
2450MHz	7.58	81%	
2452MHz	7.56	81%	
2454MHz	7.55	81%	
2456MHz	7.59	81%	
2458MHz	7.59	81%	
2460MHz	7.58	80%	
2462MHz	7.61	80%	
2464MHz	7.66	81%	
2466MHz	7.70	81%	
2468MHz	7.75	82%	
2470MHz	7.78	82%	
2472MHz	7.83	82%	
2474MHz	7.89	83%	
2476MHz	7.92	84%	
2478MHz	7.93	84%	
2480MHz	7.95	84%	

WiFi



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Note	BLE 0		
Frequency	E Total. dB(dBi)	Efficiency()	Peak Gain
2400MHz	4.36	71%	4.69702
2402MHz	4.37	71%	
2404MHz	4.36	72%	
2406MHz	4.38	72%	
2408MHz	4.42	73%	
2410MHz	4.44	73%	
2412MHz	4.43	74%	
2414MHz	4.42	74%	
2416MHz	4.42	74%	
2418MHz	4.41	74%	
2420MHz	4.37	73%	
2422MHz	4.38	74%	
2424MHz	4.40	75%	
2426MHz	4.41	75%	
2428MHz	4.42	76%	
2430MHz	4.41	76%	
2432MHz	4.41	77%	
2434MHz	4.46	78%	
2436MHz	4.44	79%	
2438MHz	4.47	79%	
2440MHz	4.54	80%	
2442MHz	4.60	81%	
2444MHz	4.63	81%	
2446MHz	4.56	81%	
2448MHz	4.58	82%	
2450MHz	4.59	82%	
2452MHz	4.56	82%	
2454MHz	4.53	82%	
2456MHz	4.60	82%	
2458MHz	4.58	83%	
2460MHz	4.51	82%	
2462MHz	4.45	82%	
2464MHz	4.45	82%	
2466MHz	4.58	83%	
2468MHz	4.54	84%	
2470MHz	4.51	84%	
2472MHz	4.53	84%	
2474MHz	4.58	85%	
2476MHz	4.63	86%	
2478MHz	4.66	86%	
2480MHz	4.70	86%	

BLE0

EUT Type	G1-E-6101		
Note	BLE 1		
Frequency	E Total. dB(dBi)	Efficiency()	Peak Gain
2400MHz	4.60	73%	4.91336
2402MHz	4.63	73%	
2404MHz	4.64	74%	
2406MHz	4.61	74%	
2408MHz	4.64	75%	
2410MHz	4.66	76%	
2412MHz	4.65	76%	
2414MHz	4.65	76%	
2416MHz	4.59	76%	
2418MHz	4.59	76%	
2420MHz	4.53	76%	
2422MHz	4.54	76%	
2424MHz	4.58	77%	
2426MHz	4.70	78%	
2428MHz	4.68	78%	
2430MHz	4.68	78%	
2432MHz	4.74	79%	
2434MHz	4.79	80%	
2436MHz	4.75	81%	
2438MHz	4.77	81%	
2440MHz	4.84	82%	
2442MHz	4.89	82%	
2444MHz	4.91	83%	
2446MHz	4.83	82%	
2448MHz	4.84	83%	
2450MHz	4.84	83%	
2452MHz	4.82	83%	
2454MHz	4.79	83%	
2456MHz	4.83	83%	
2458MHz	4.81	83%	
2460MHz	4.75	83%	
2462MHz	4.69	83%	
2464MHz	4.69	83%	
2466MHz	4.80	84%	
2468MHz	4.78	85%	
2470MHz	4.74	85%	
2472MHz	4.75	85%	
2474MHz	4.80	86%	
2476MHz	4.90	87%	
2478MHz	4.90	87%	
2480MHz	4.91	87%	

BLE1



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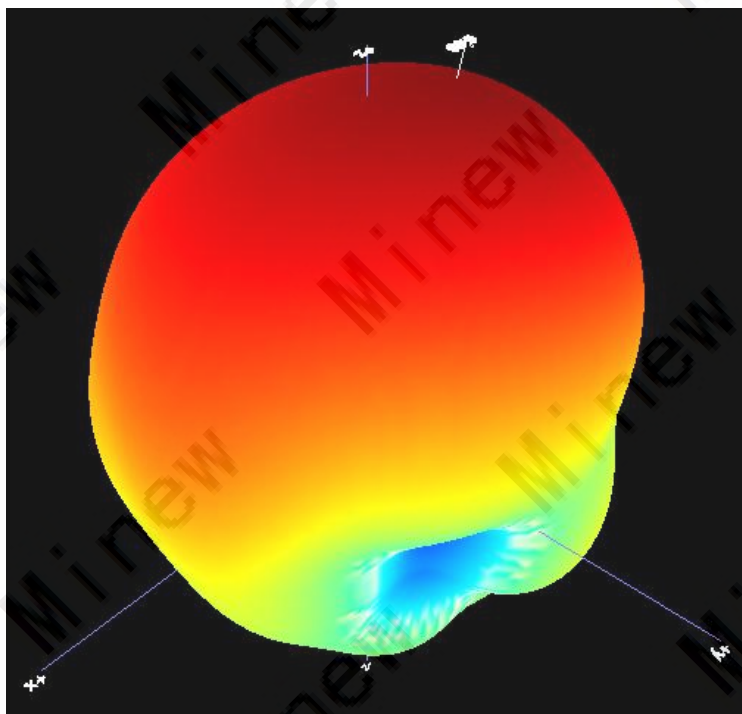
密级: 绝密 /confidentiality

EUT Type	G1-E-6101		
Note	BLE 2		
Frequency	E Total. dB(dBi)	Efficiency()	Peak Gain
2400MHz	4.83	75%	5.06417
2402MHz	4.84	75%	
2404MHz	4.82	76%	
2406MHz	4.78	76%	
2408MHz	4.80	77%	
2410MHz	4.79	77%	
2412MHz	4.77	78%	
2414MHz	4.75	78%	
2416MHz	4.68	78%	
2418MHz	4.65	78%	
2420MHz	4.58	77%	
2422MHz	4.56	78%	
2424MHz	4.58	78%	
2426MHz	4.67	78%	
2428MHz	4.63	79%	
2430MHz	4.61	79%	
2432MHz	4.64	79%	
2434MHz	4.66	79%	
2436MHz	4.59	80%	
2438MHz	4.58	80%	
2440MHz	4.62	81%	
2442MHz	4.64	81%	
2444MHz	4.62	81%	
2446MHz	4.59	81%	
2448MHz	4.62	81%	
2450MHz	4.67	81%	
2452MHz	4.70	81%	
2454MHz	4.71	80%	
2456MHz	4.70	81%	
2458MHz	4.73	81%	
2460MHz	4.75	80%	
2462MHz	4.76	80%	
2464MHz	4.76	80%	
2466MHz	4.81	81%	
2468MHz	4.85	82%	
2470MHz	4.85	82%	
2472MHz	4.85	82%	
2474MHz	4.89	83%	
2476MHz	5.02	83%	
2478MHz	5.04	84%	
2480MHz	5.06	84%	

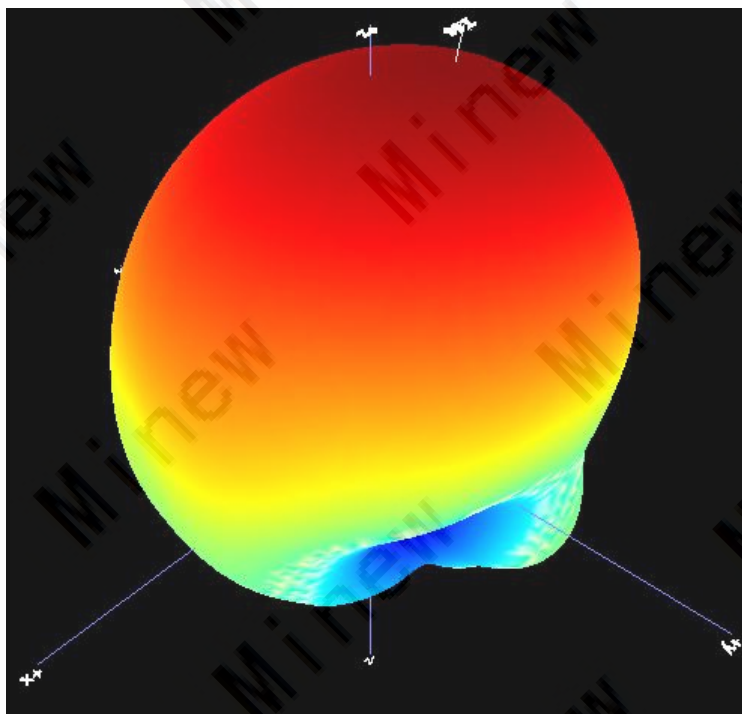
BLE2

3.3 3D Polar Plot

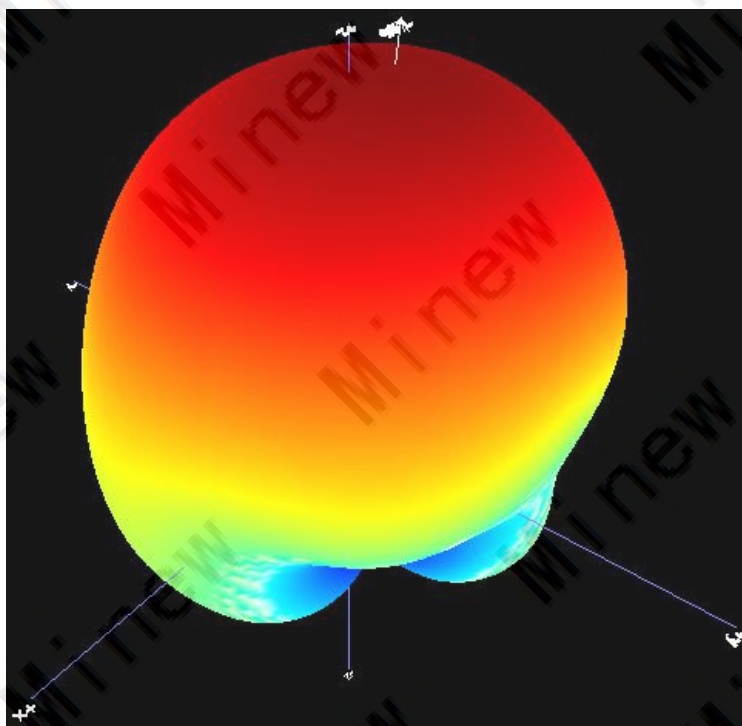
3.3.1 WiFi



2402MHz

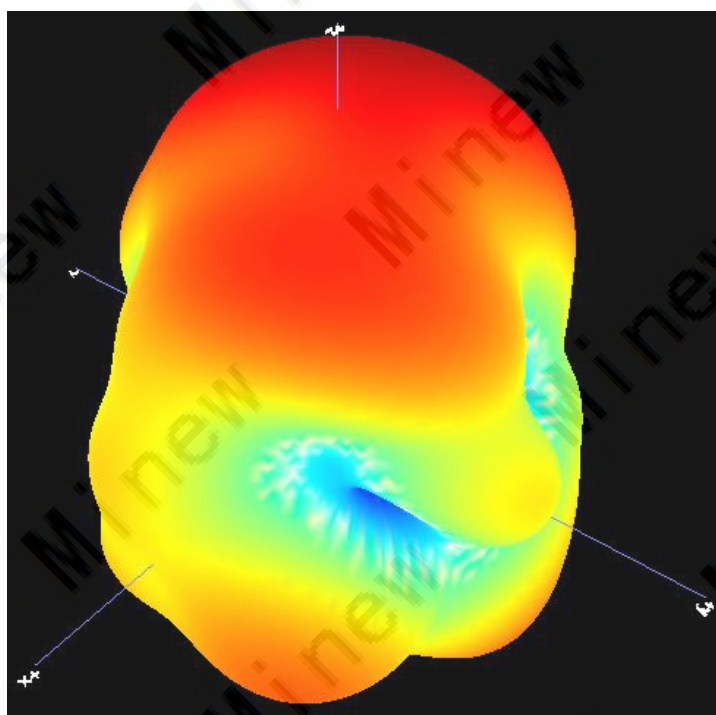


2440MHz

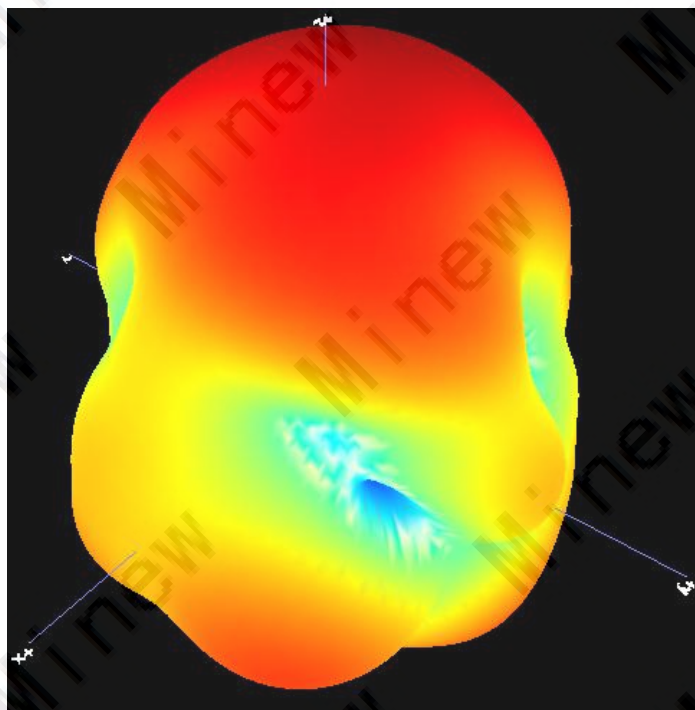


2480MHz

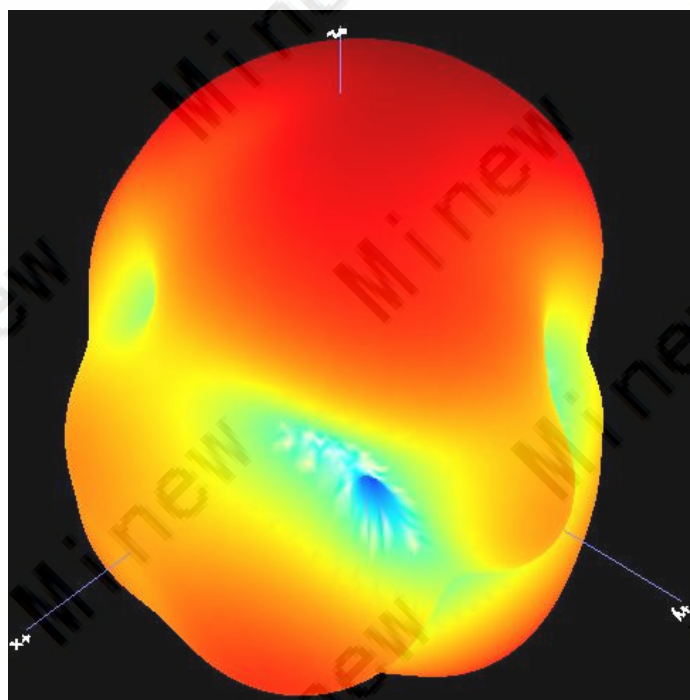
3.3.2 BLE0



2402MHz

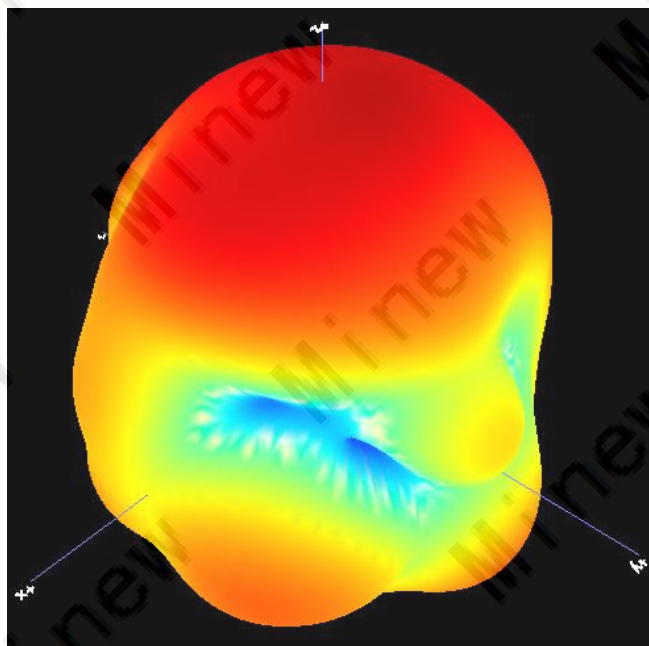


2440MHz

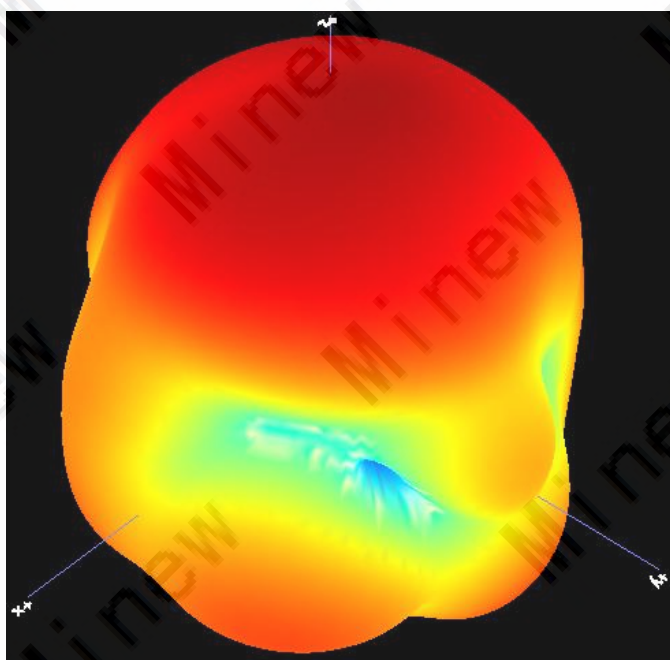


2480MHz

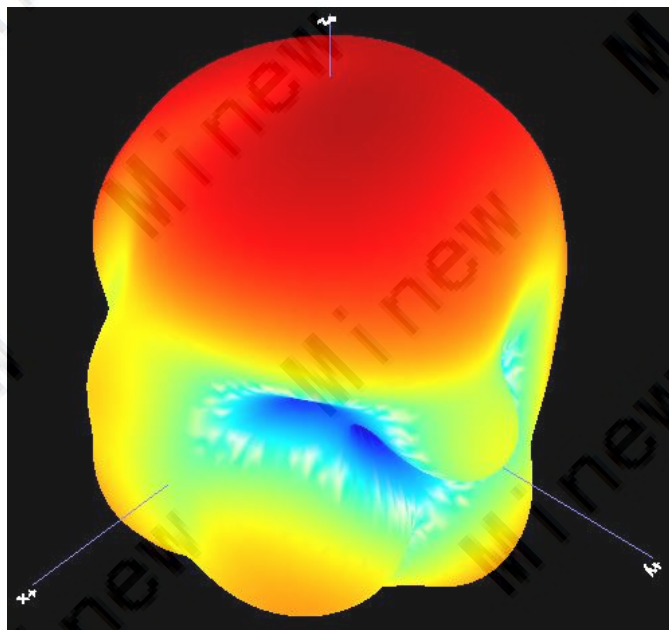
3.3.3 BLE1



2402MHz

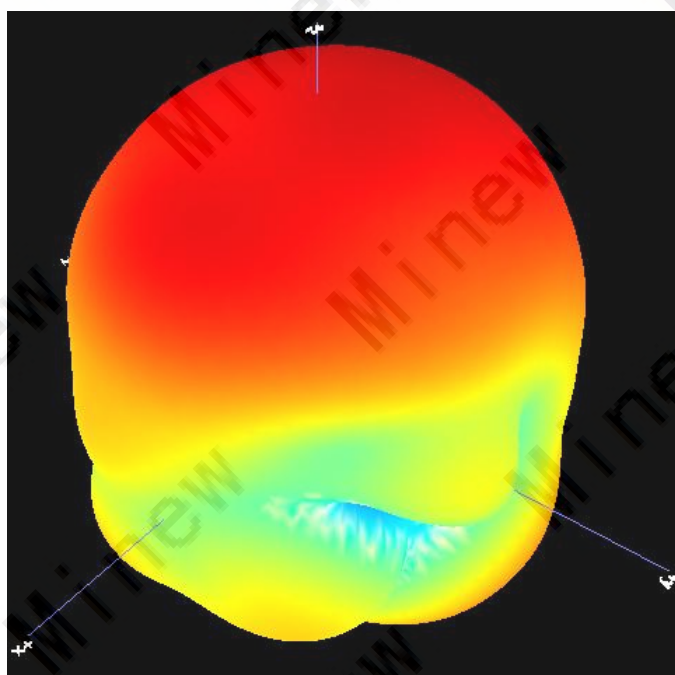


2440MHz

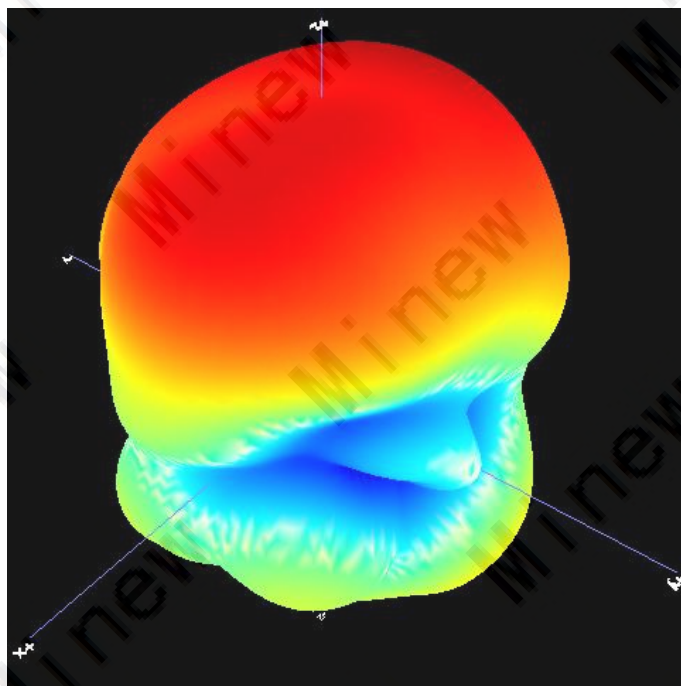


2480MHz

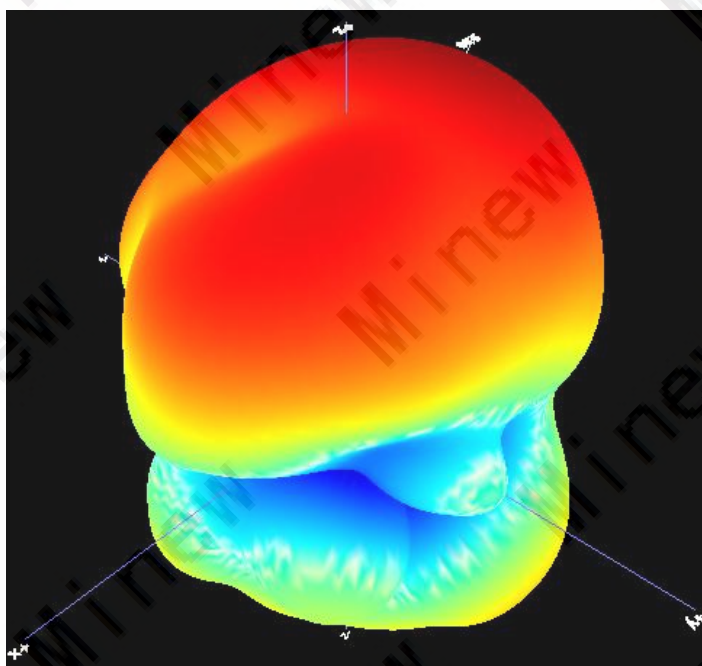
3.3.4 BLE2



2402MHz



2440MHz

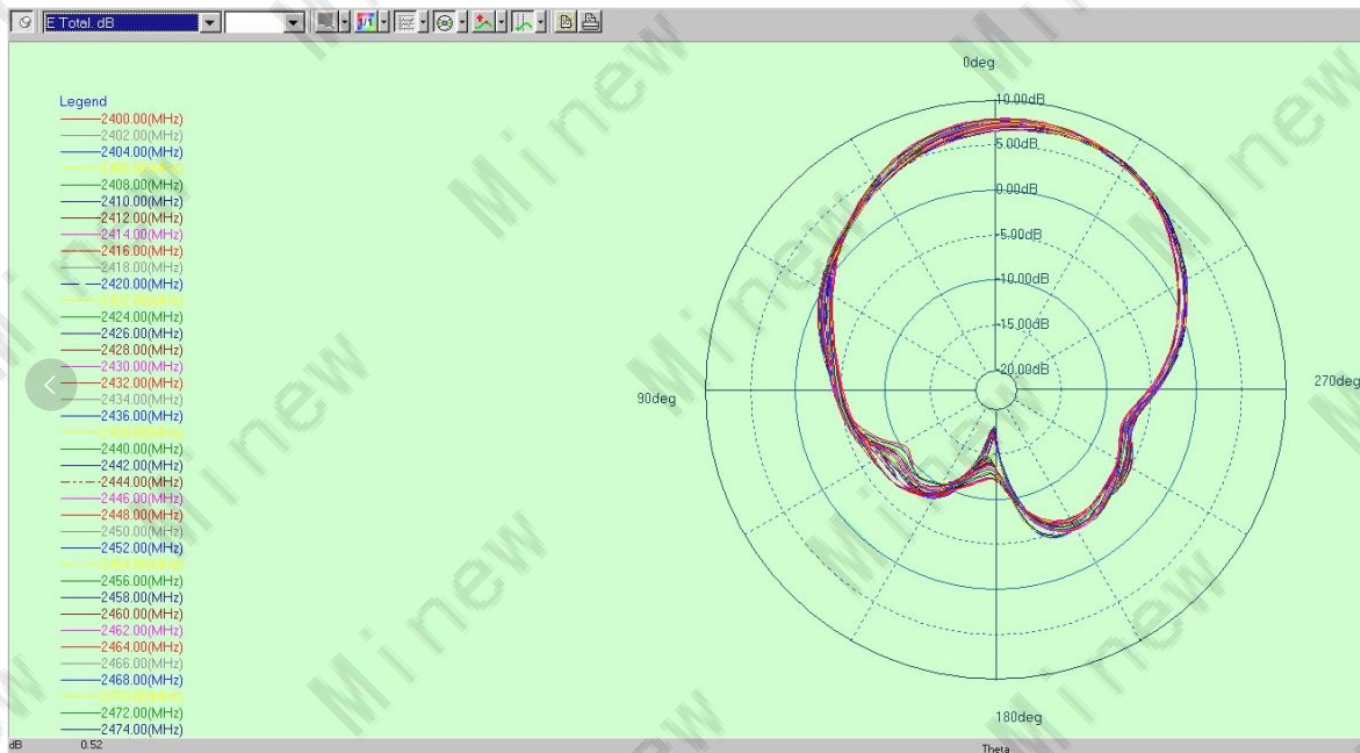


2480MHz

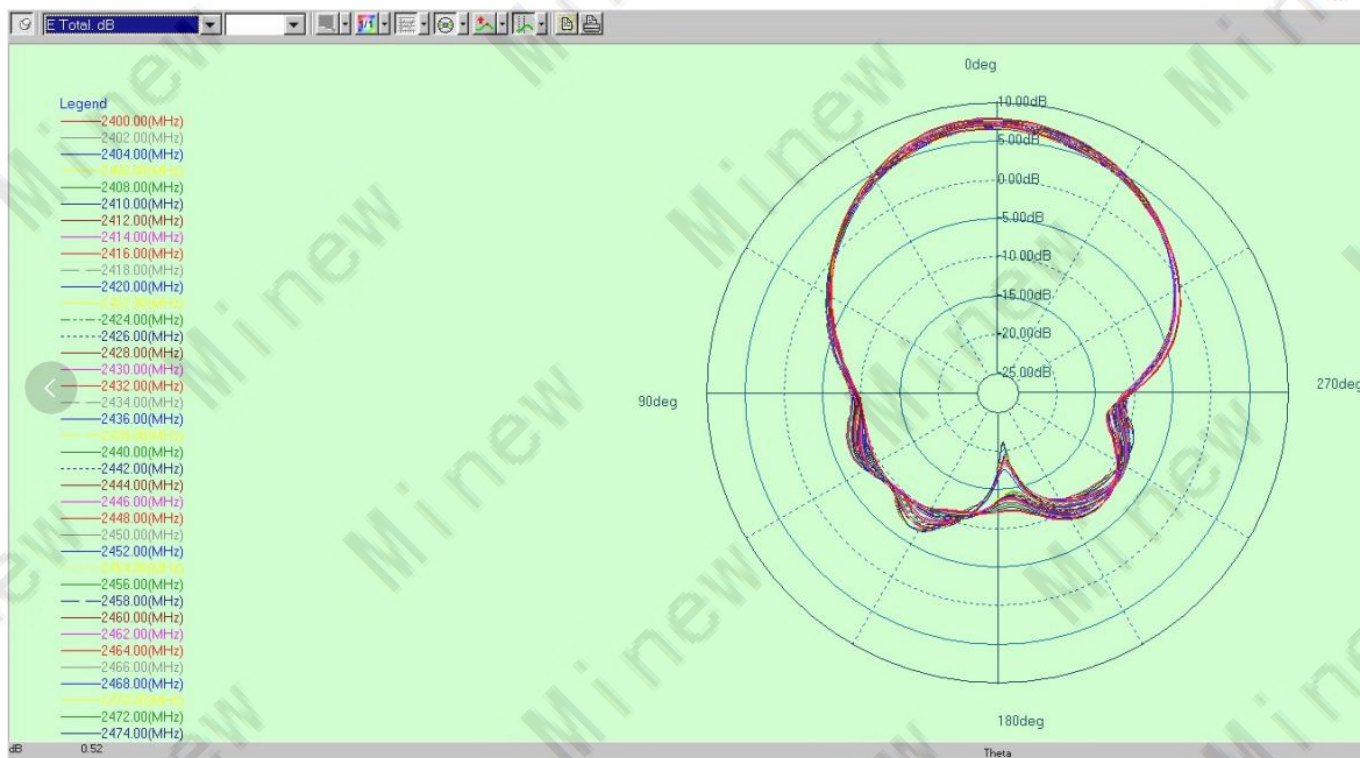
3.4 2D Radiation Pattern

3.4.1 WiFi

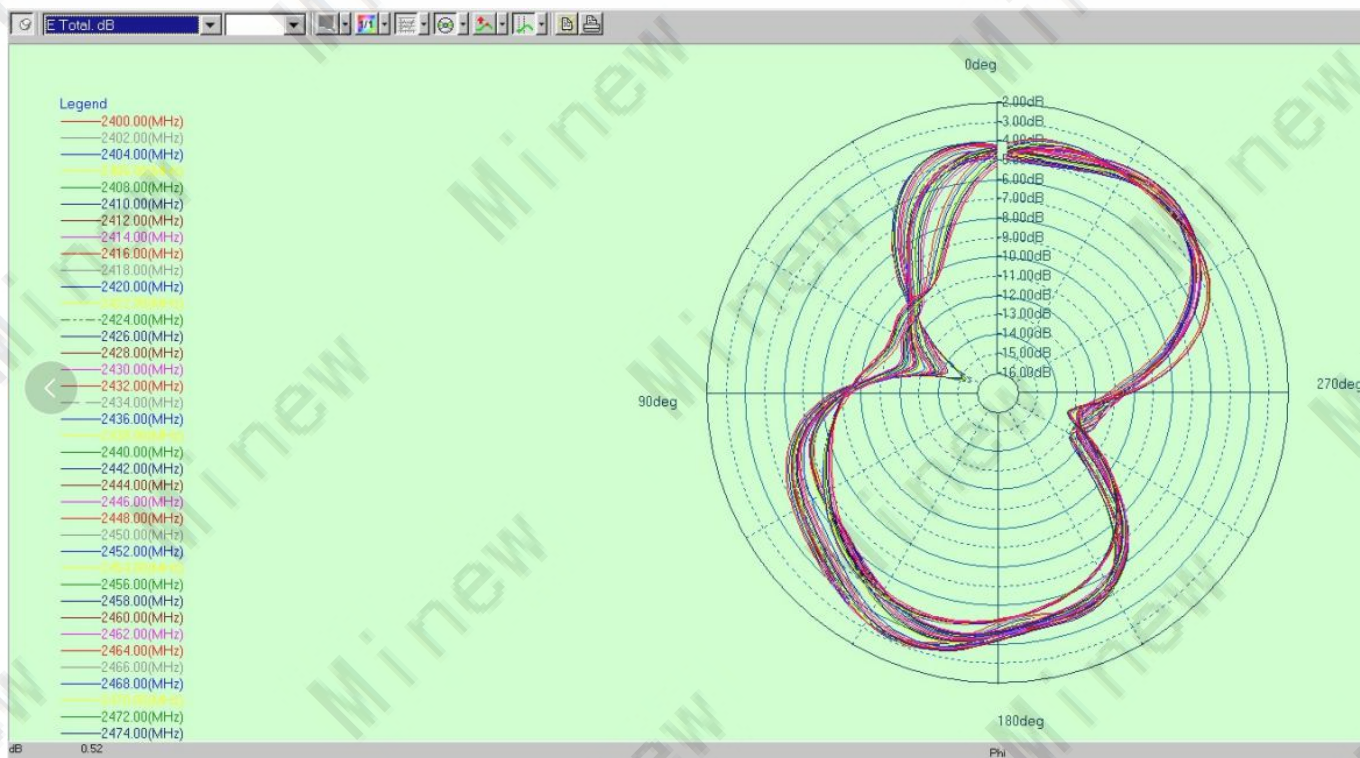
(1) E1, XZ Plane, $\phi=0$



(2) E2, YZ Plane, $\phi=90^\circ$

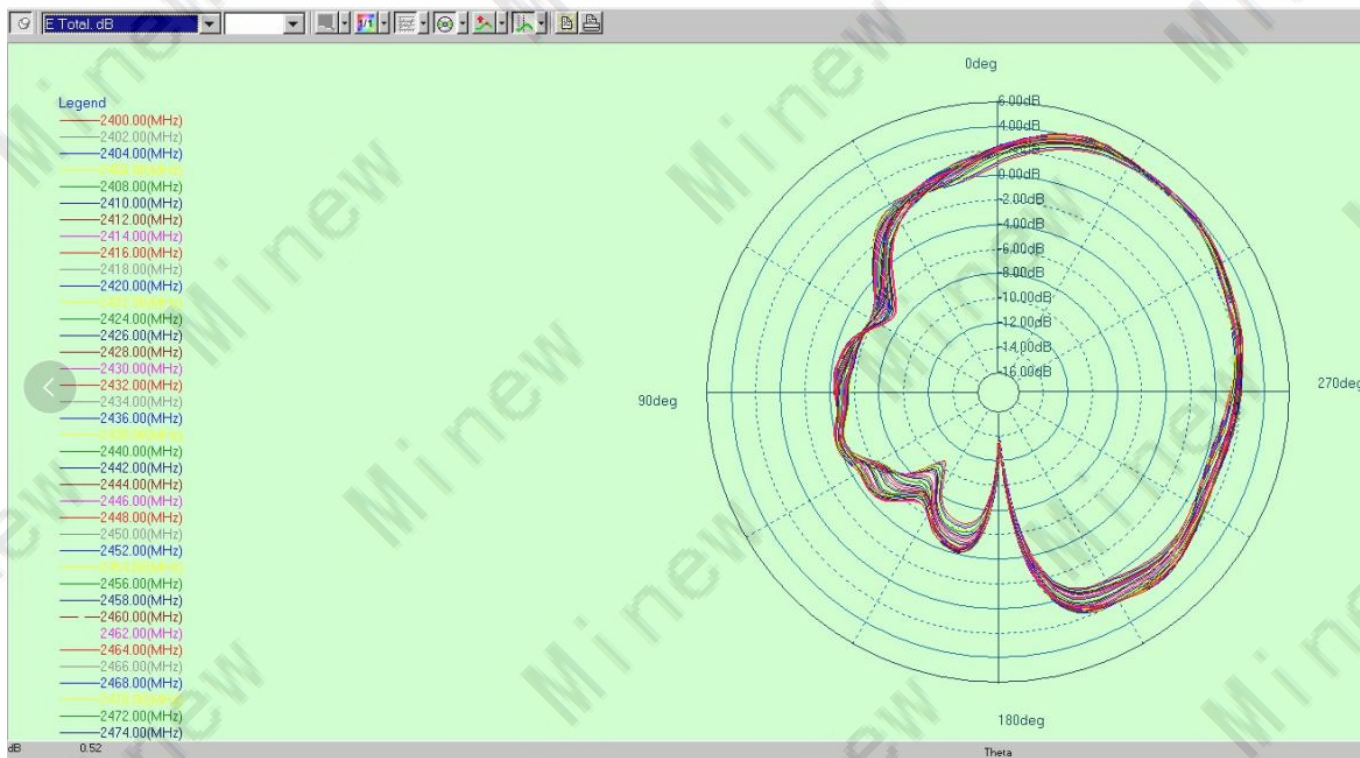


(3) H, XY plane, $\theta=90^\circ$

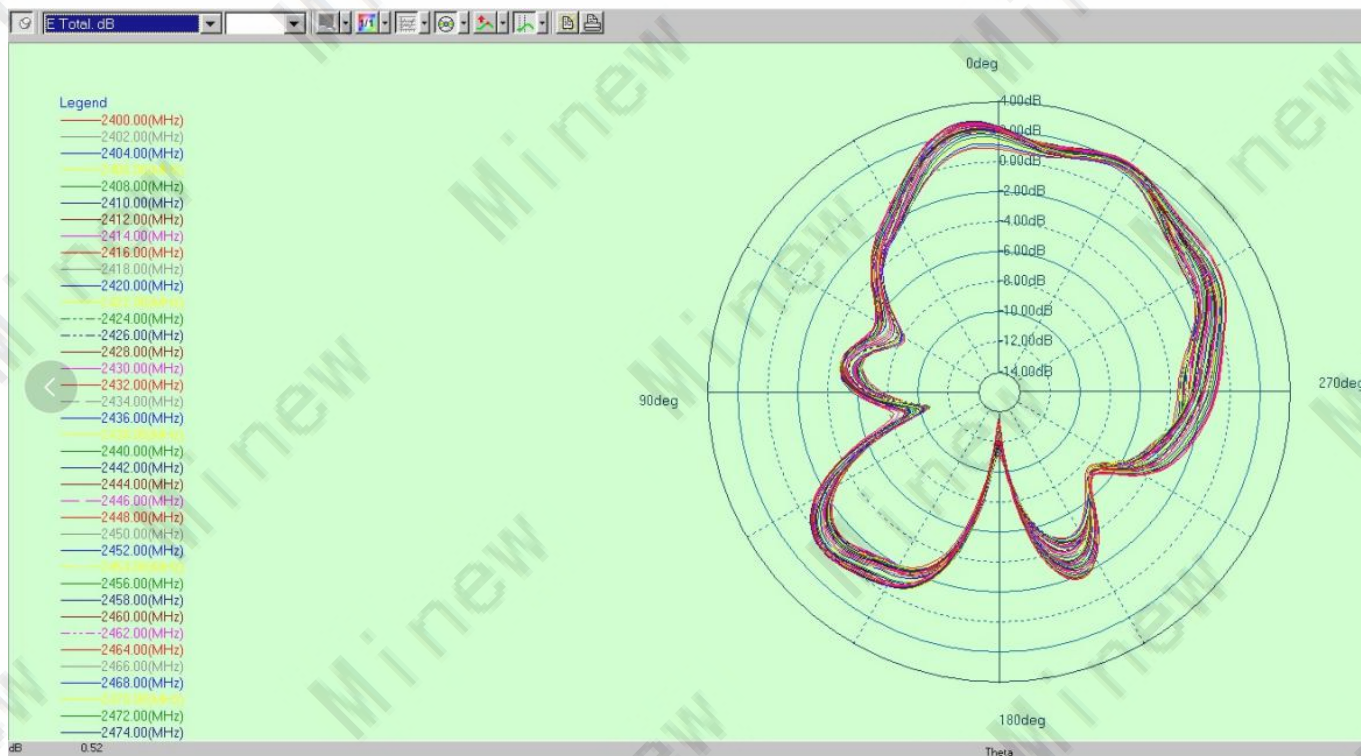


3.4.2 BLE0

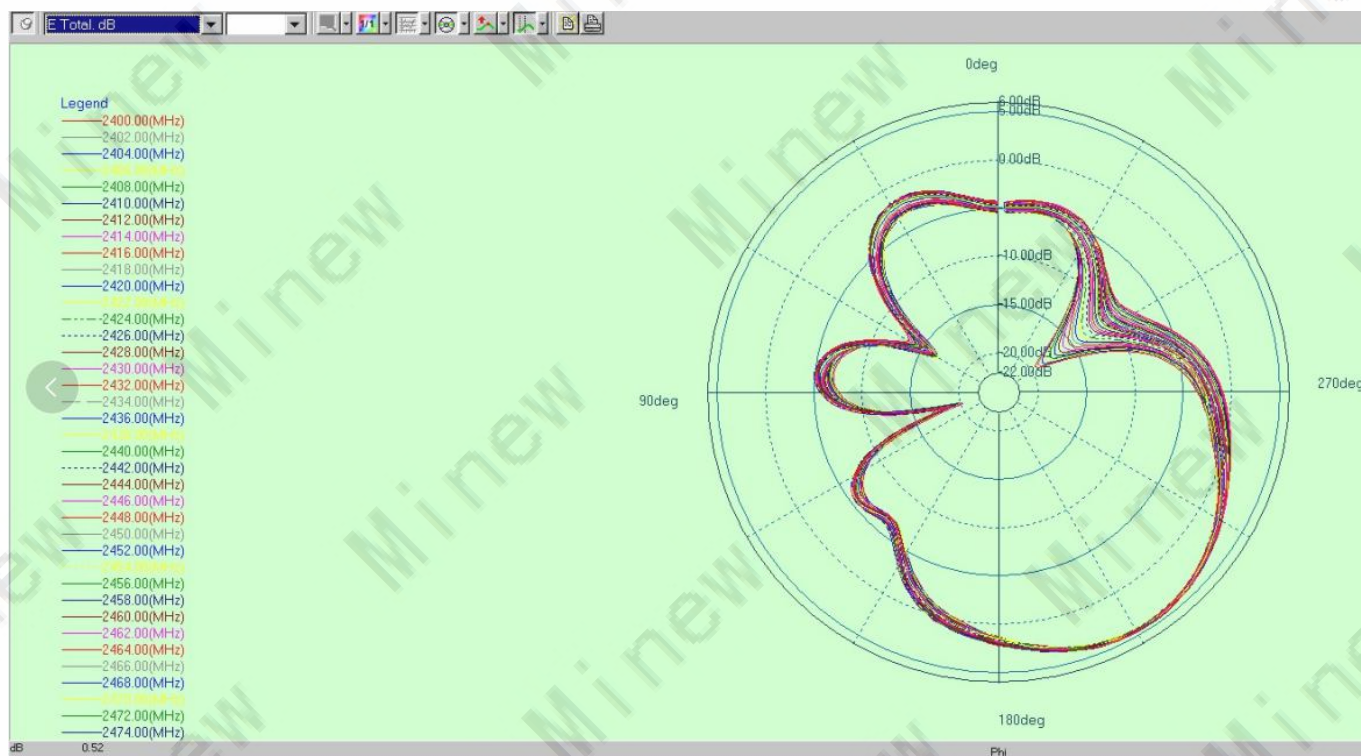
(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, phi=90°

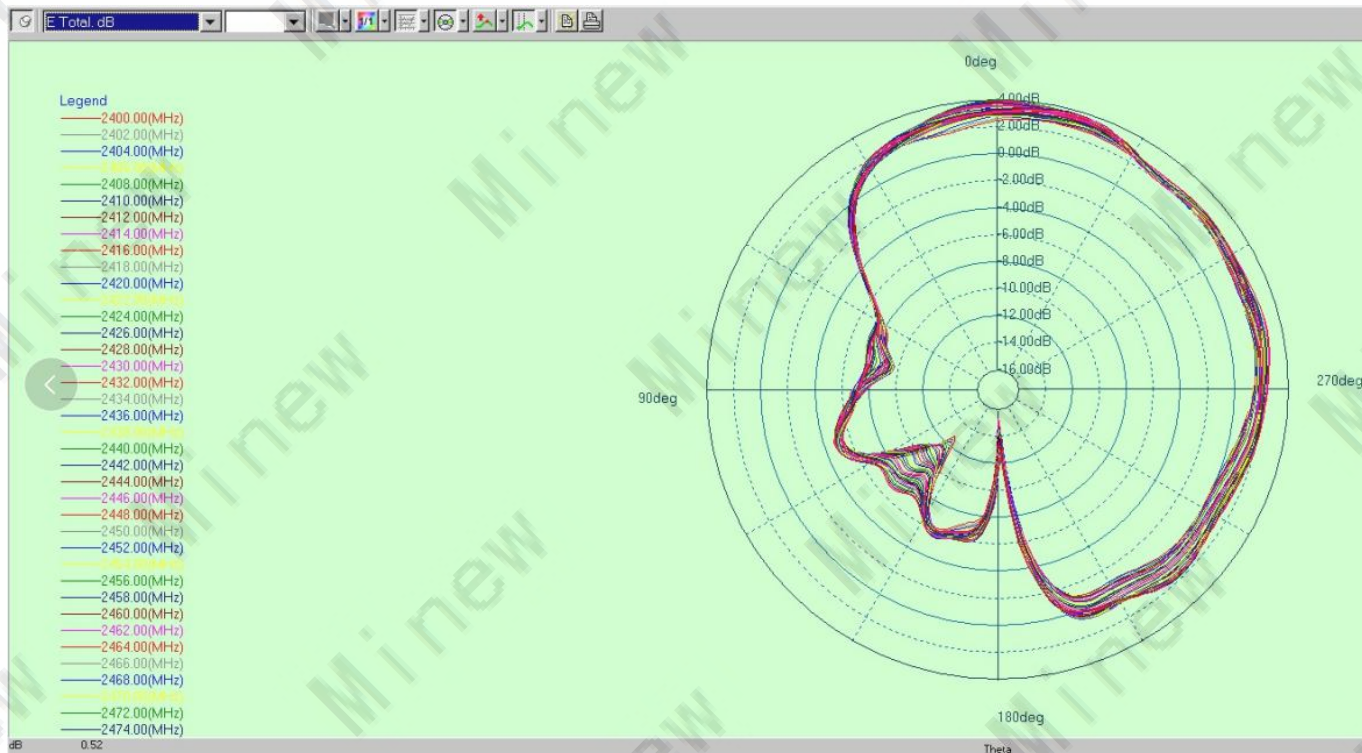


(3) H , XY plane, theta=90°

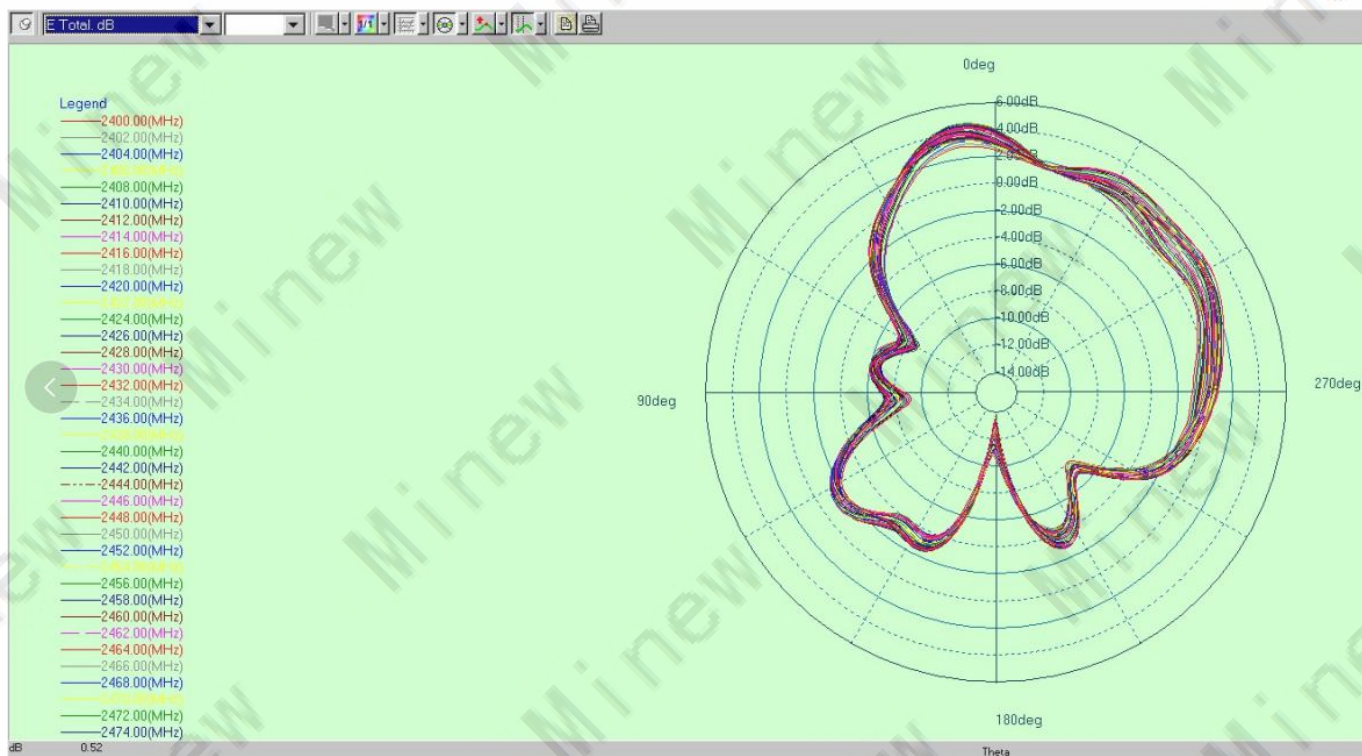


3.4.3 BLE1

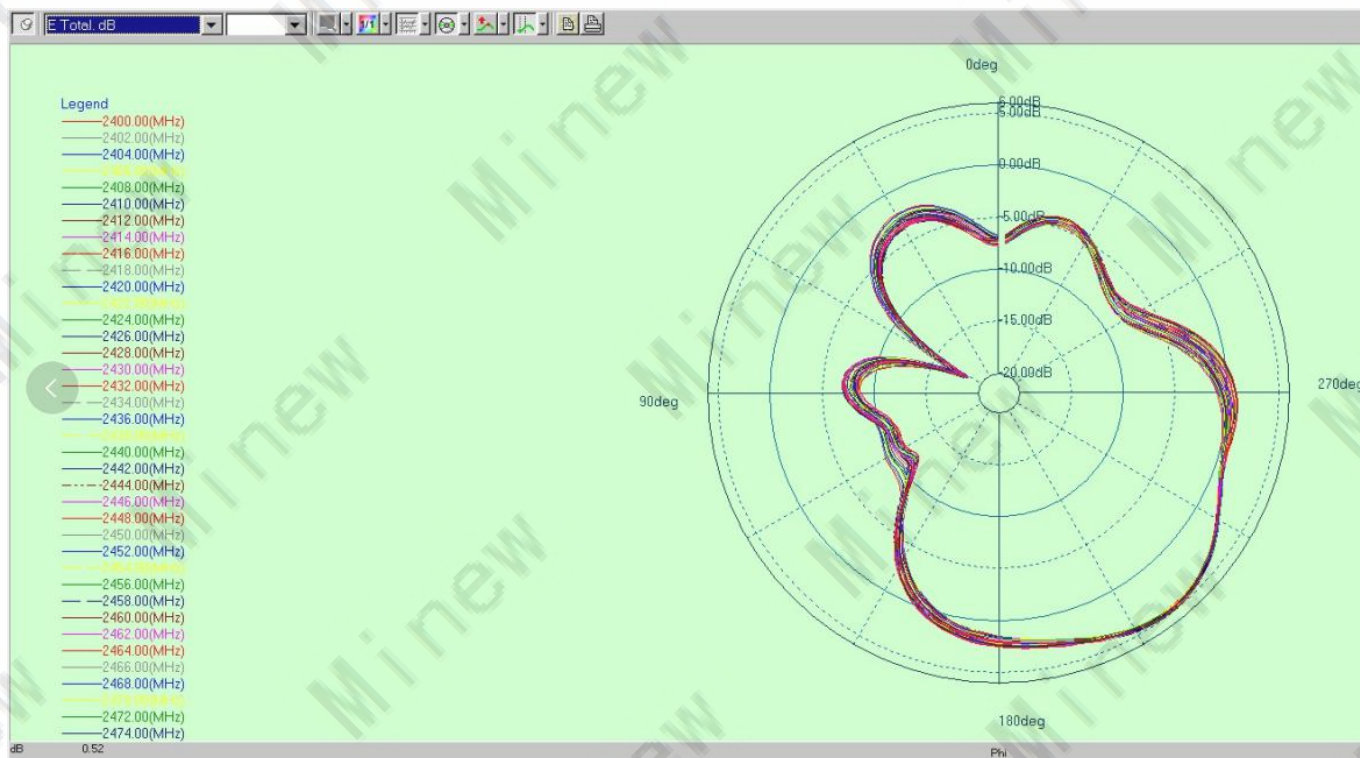
(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, $\phi=90^\circ$

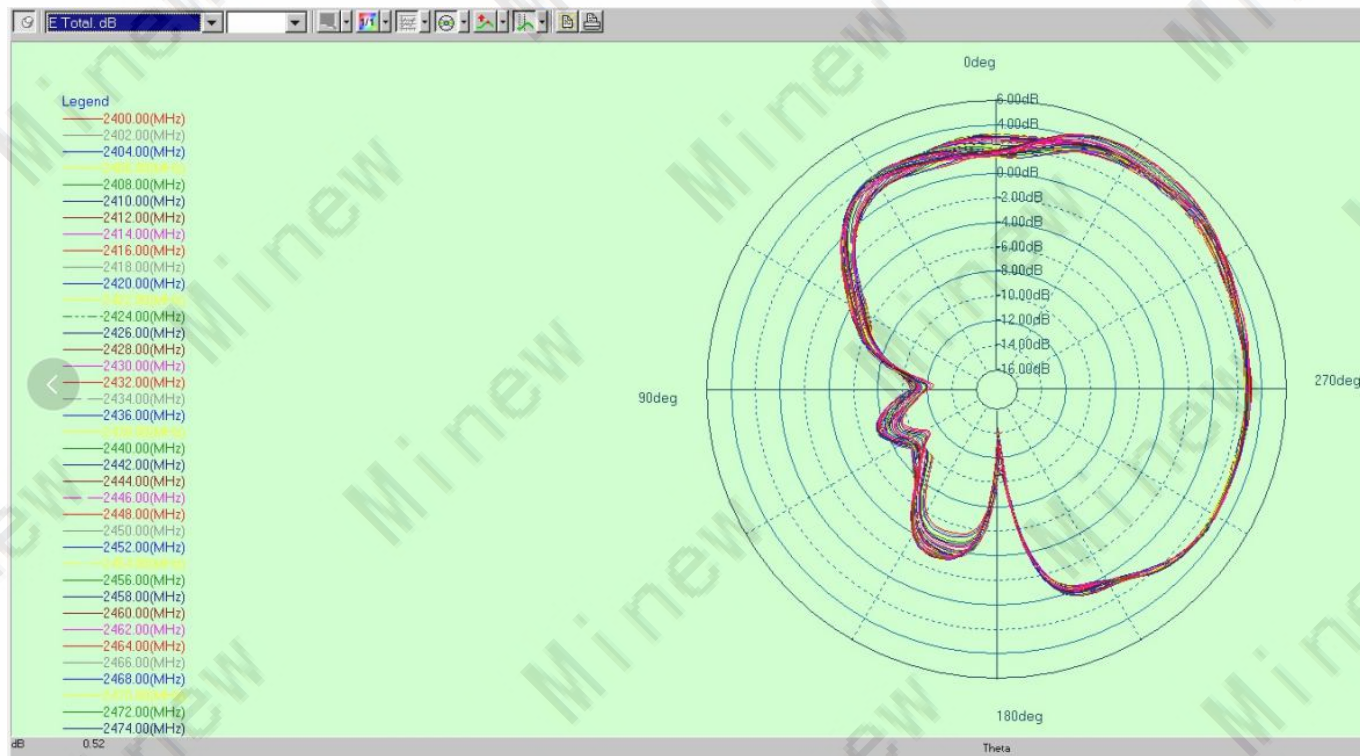


(3) H, XY plane, $\theta=90^\circ$

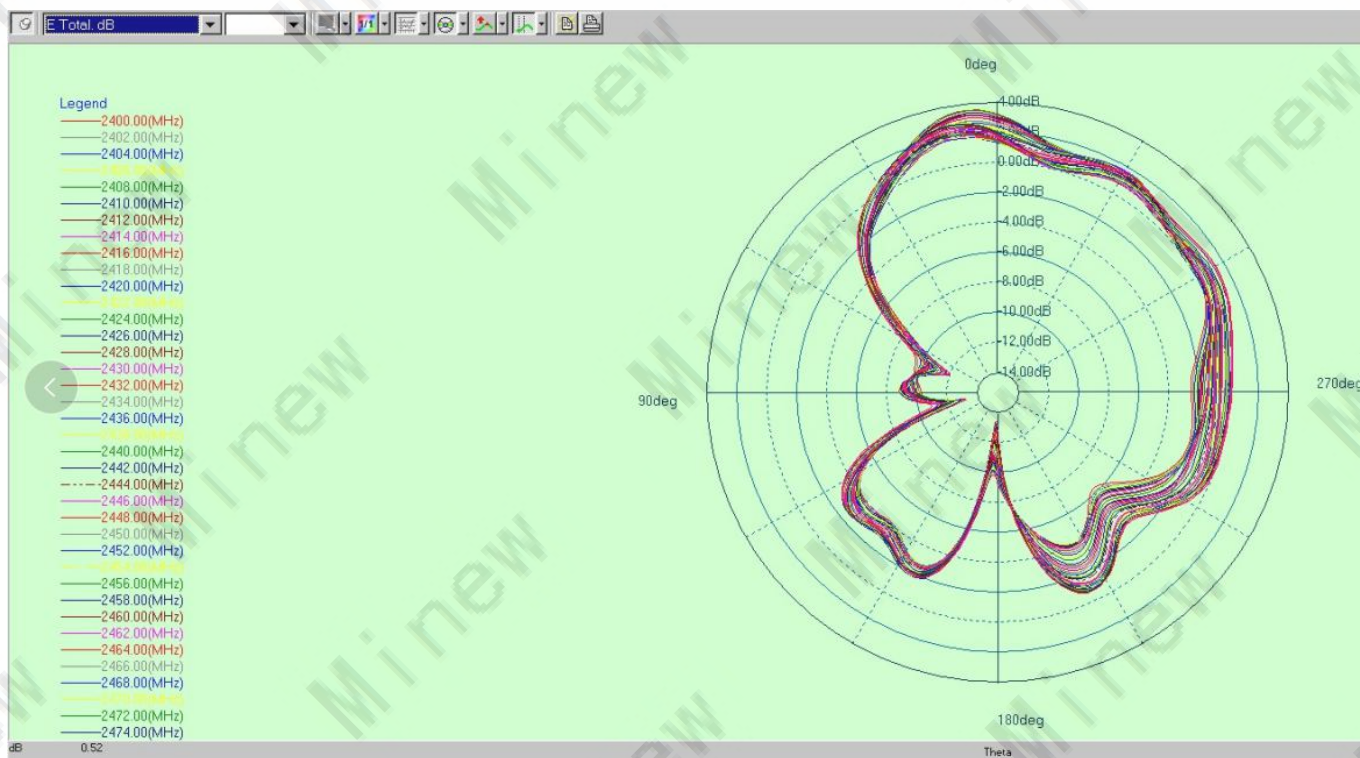


3.4.4 BLE2

(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, phi=90°



(3) H , XY plane, theta=90°

