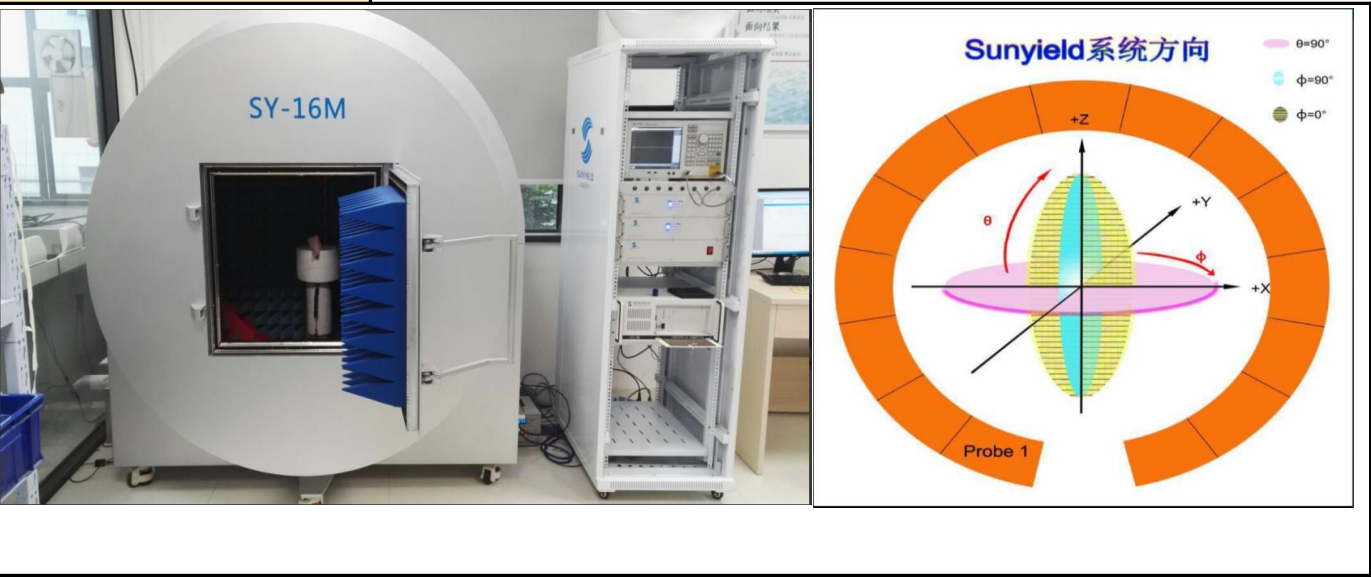


Test Environment

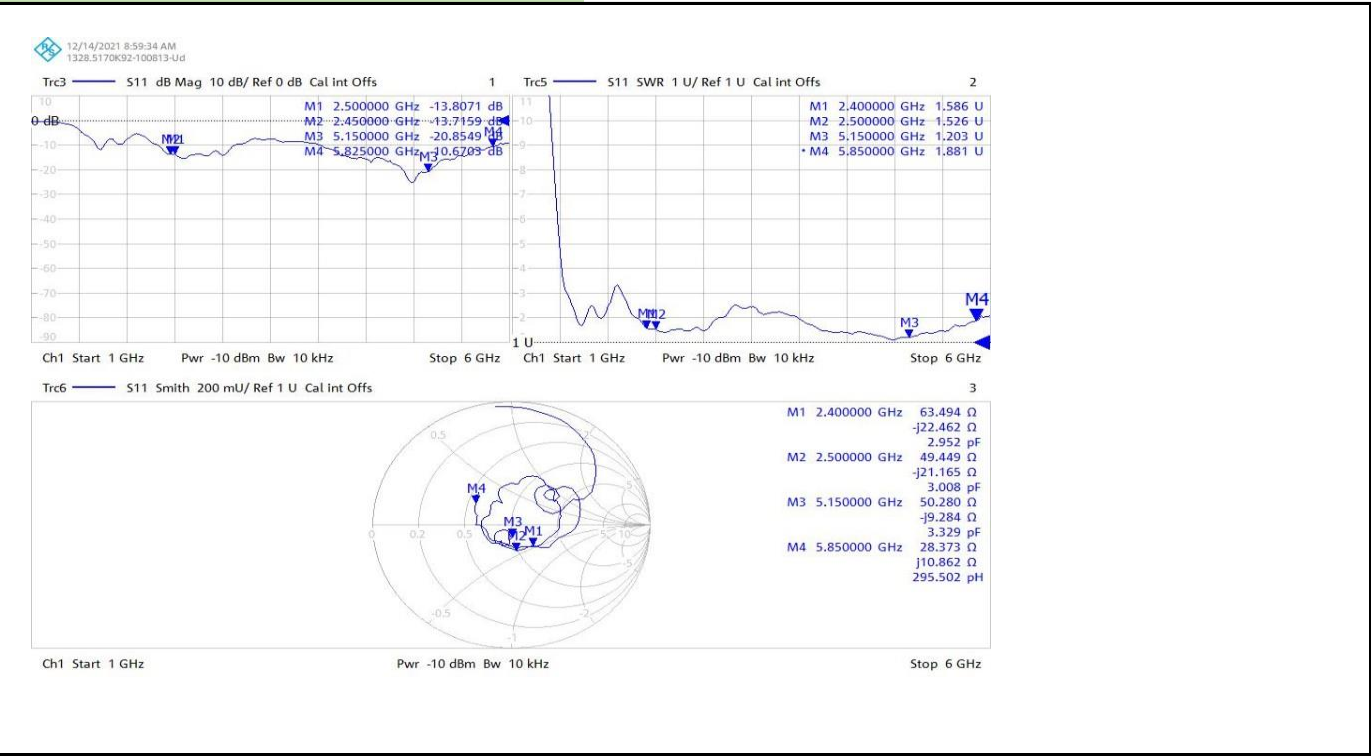
SY-16M Test System



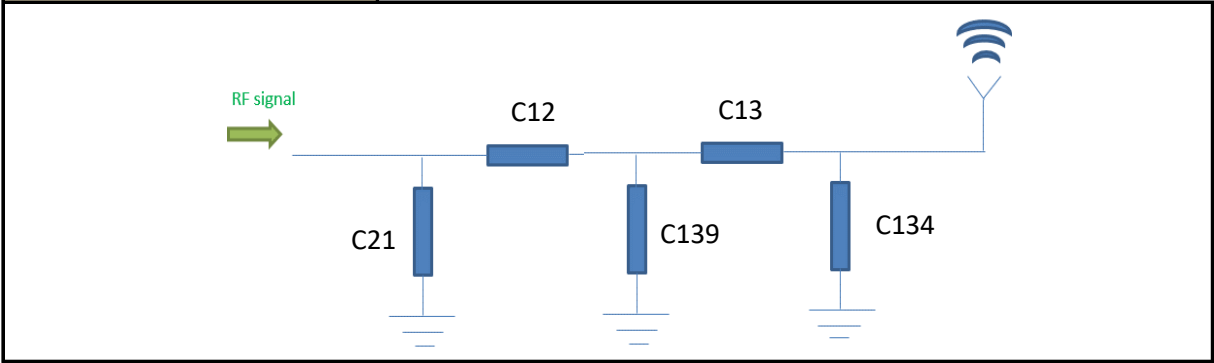
WiFi Left Test Result

VNA Data

VSWR & Return Loss & Smith Chart



Antenna Matching

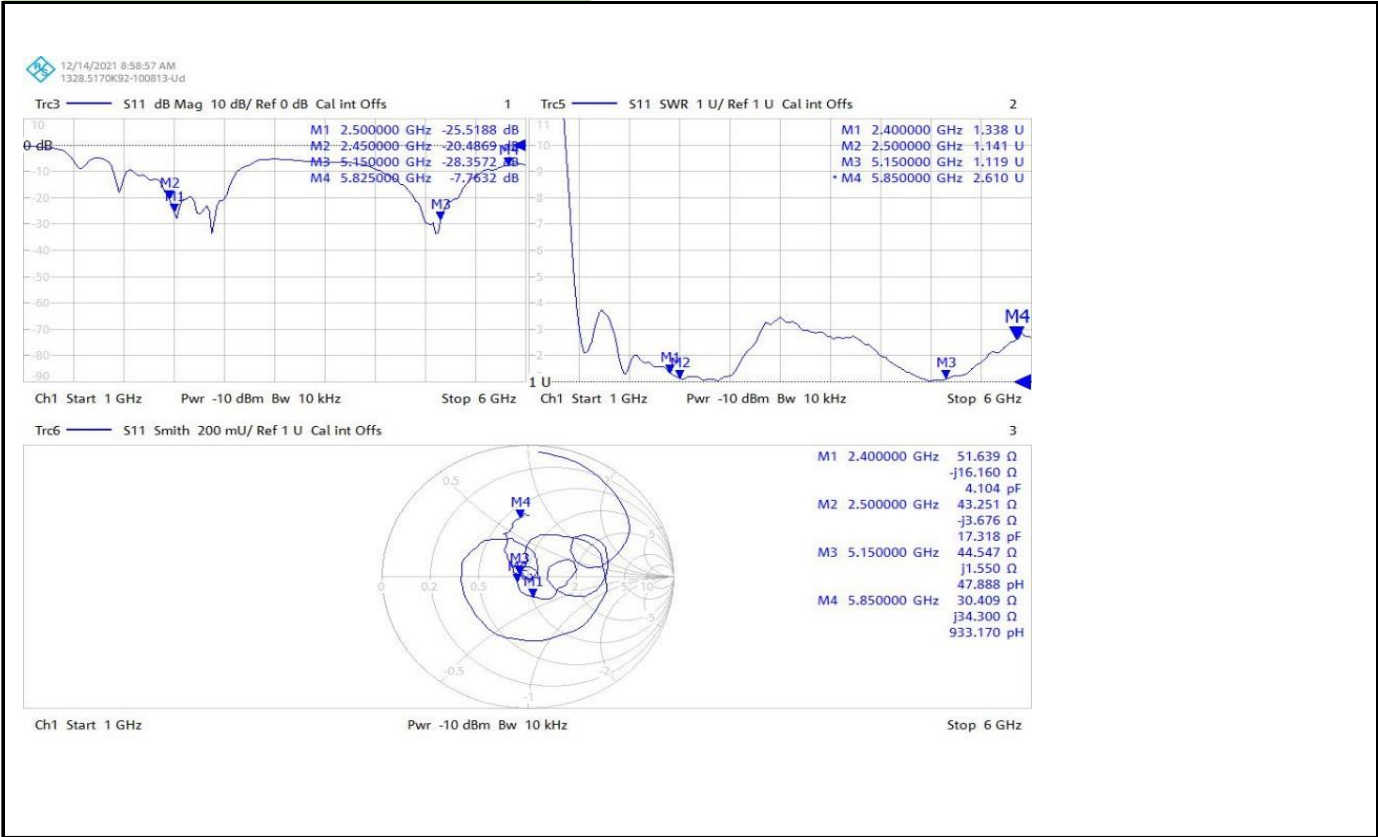


Item num.	C134	C13	C139	C12	C21
Value	NP	0Ω	NP	0Ω	2.7nH
Metrial ID	-	-	-	-	2.023E+09
Comment	NC: no component NP: no pad				

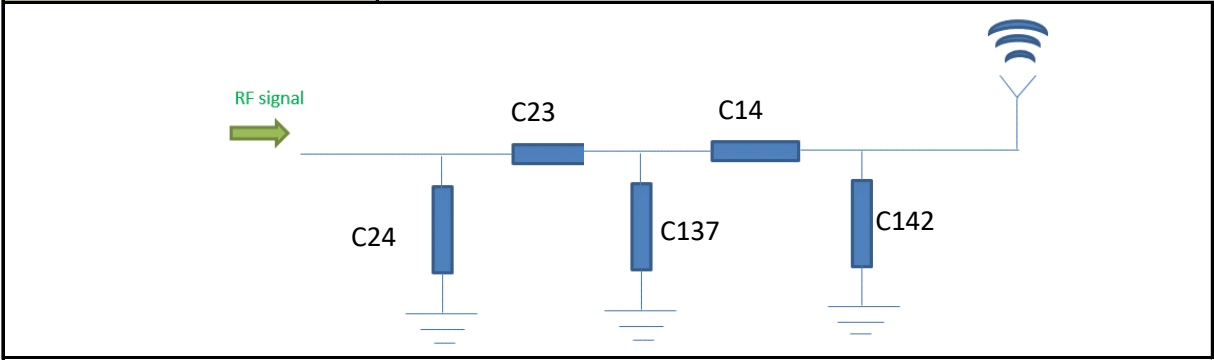
WiFi Right Test Result

VNA Data

VSWR & Return Loss & Smith Chart



Antenna Matching

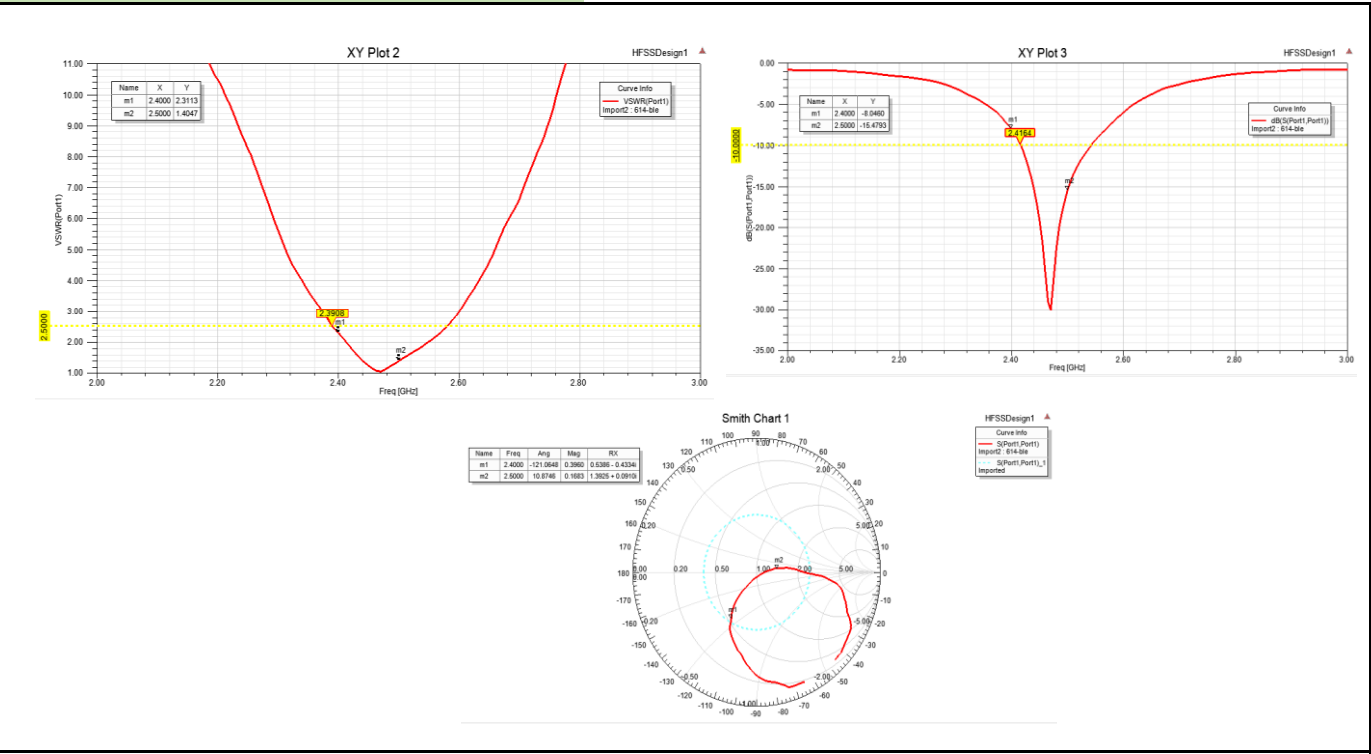


Item num.	C134	C13	C139	C12	C24
Value	NP	0Ω	NP	0Ω	2.7nH
Metrial ID	-	-	-	-	2.023E+09
Comment	NC: no component NP: no pad				

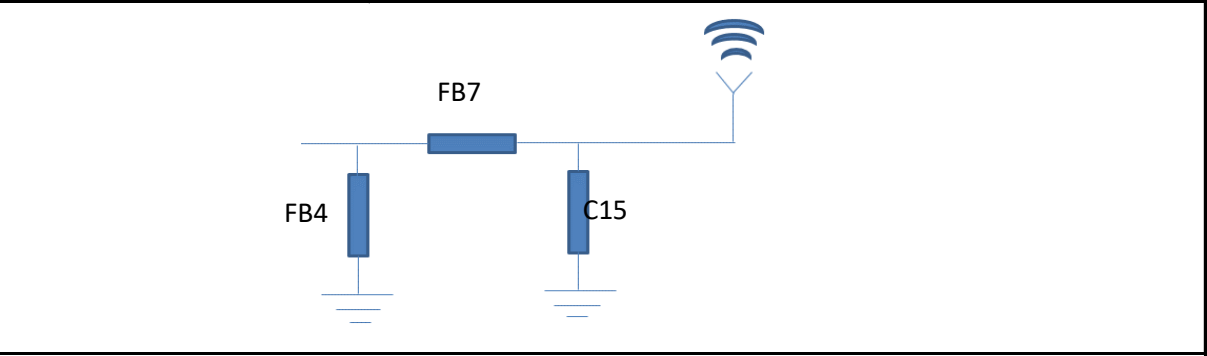
BLE Test Result

VNA Data

VSWR & Return Loss & Smith Chart

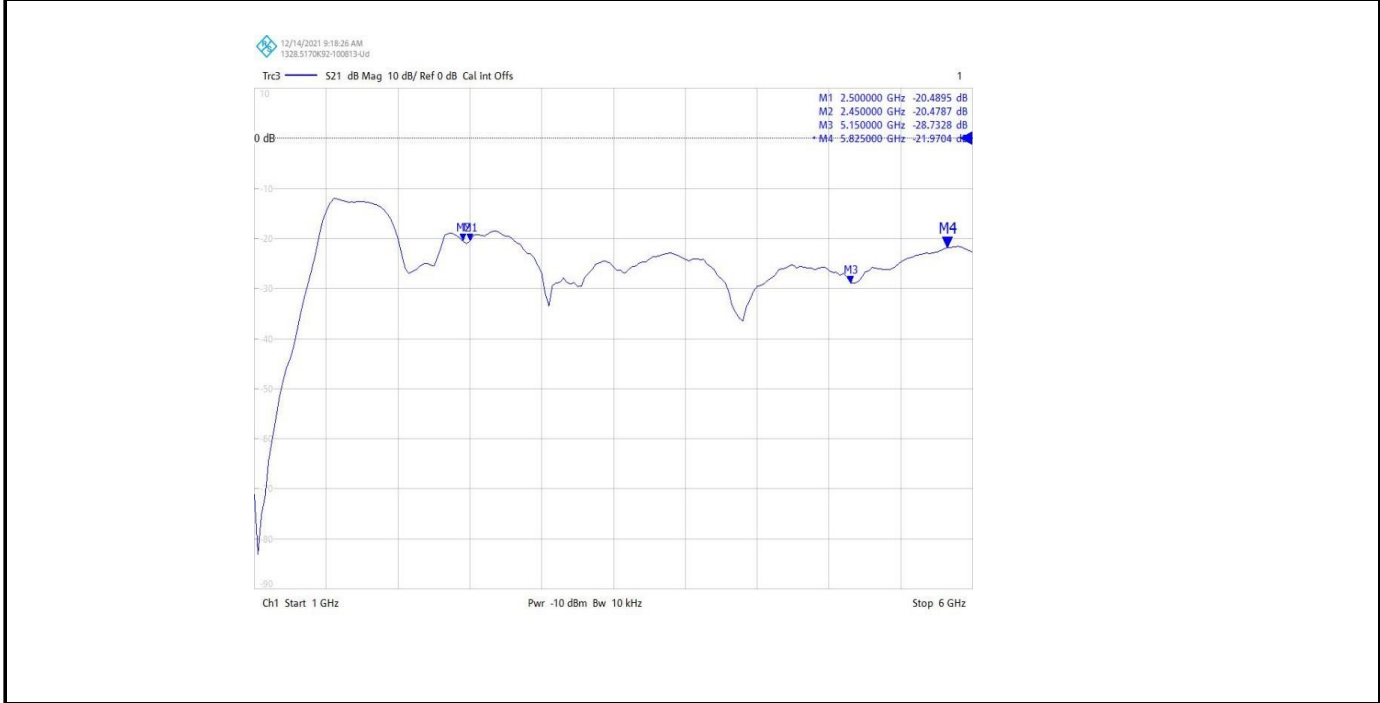


Antenna Matching

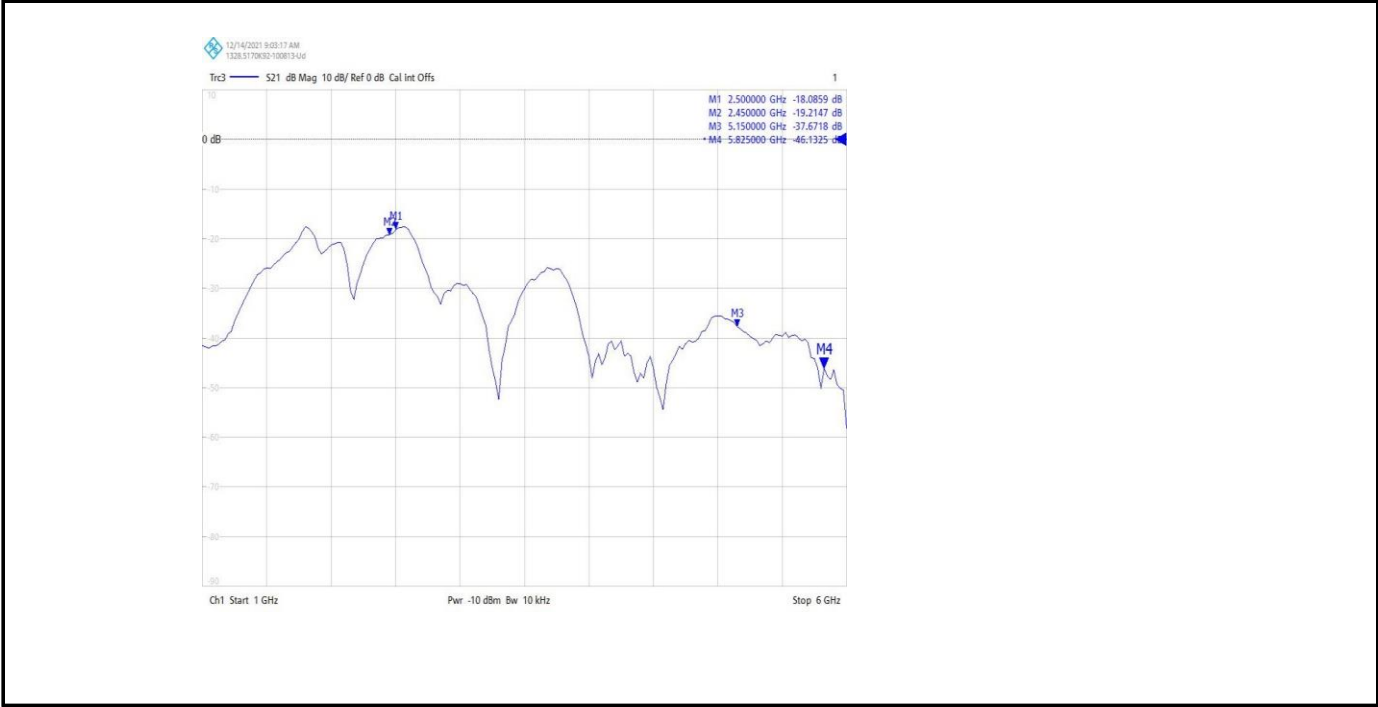


Item num.	C15	FB7	FB4		
Value	NP	0.8pF	NP		
Metrial ID	-	2020310424	2020310198	-	
Comment	NC: no component NP: no pad				

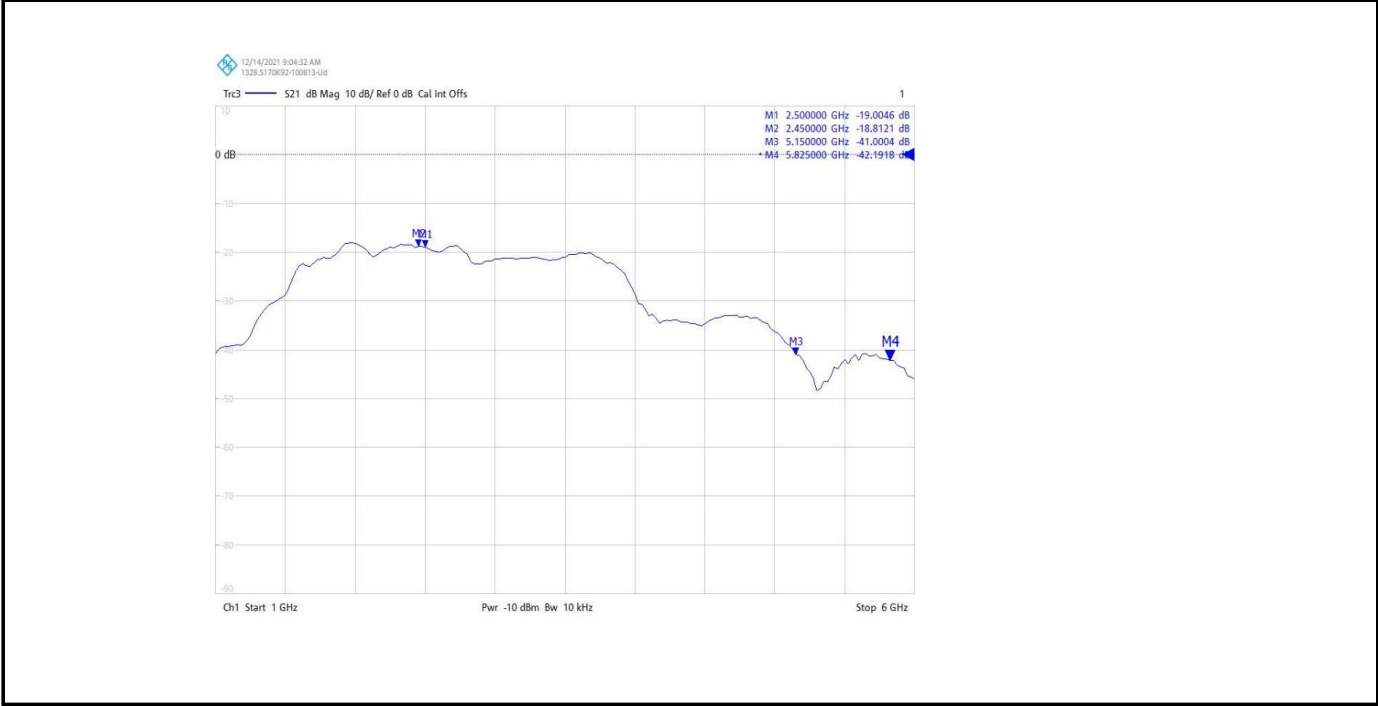
WiFi Left & WiFi Right Isolation



WiFi Left & BLE Isolation



WiFi Right & BLE Isolation

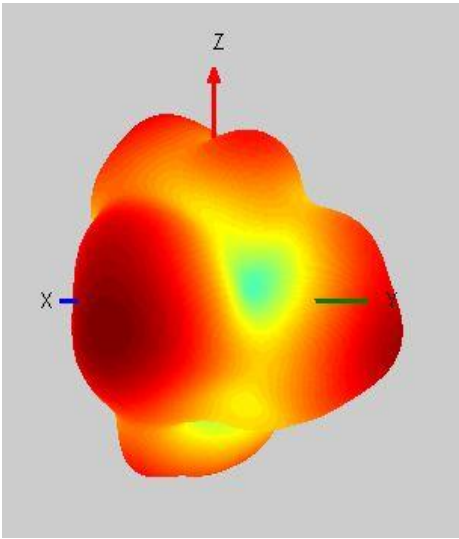


Chamber Data

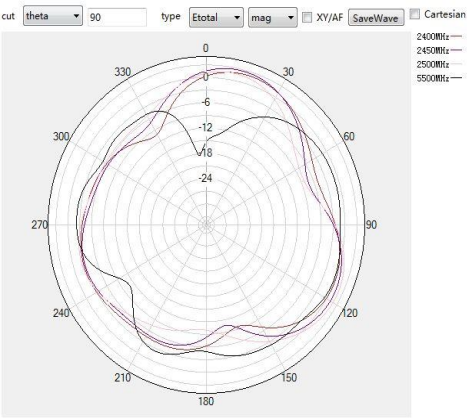
Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	2.21	-2.81	52.36
2410	2.43	-2.76	52.97
2420	2.54	-2.63	54.58
2440	2.63	-2.60	54.95
2450	2.79	-2.45	56.89
2460	2.87	-2.37	57.94
2470	2.58	-2.54	55.72
2480	2.42	-2.62	54.70
2490	2.26	-2.59	55.08
2500	2.54	-2.41	57.41
MIN	2.21	-2.81	52.36
Max	2.87	-2.37	57.94
AVG	2.53	-2.58	55.26

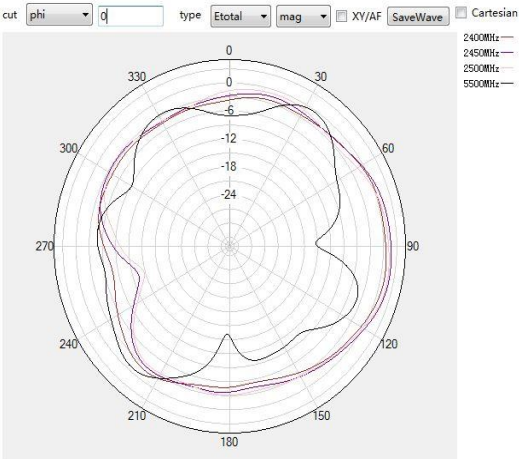
3D



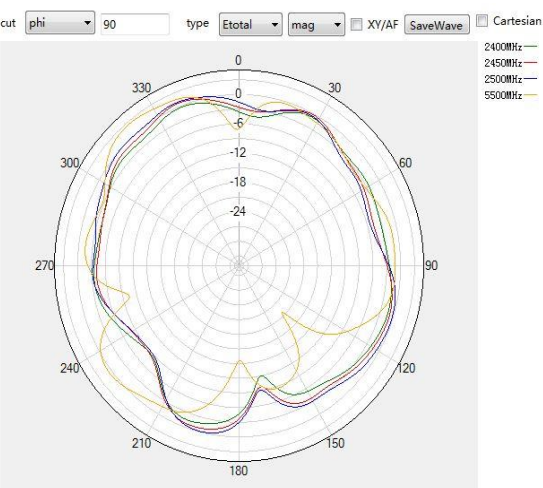
$\theta = 90^\circ$ (XY Plane)



$\phi = 0^\circ$ (XZ Plane)



$\phi = 90^\circ$ (YZ Plane)

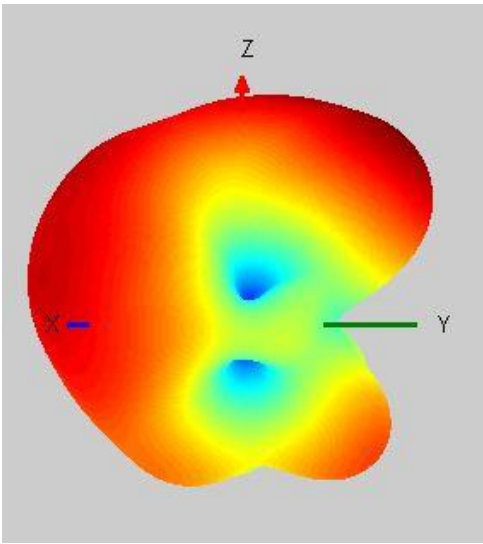


Chamber Data

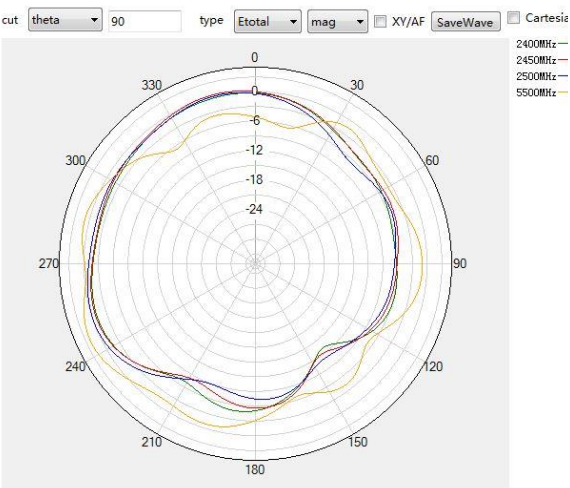
Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.15	-2.90	51.30%
2410	1.11	-2.88	51.52%
2420	1.31	-2.77	52.82%
2430	1.37	-2.80	52.46%
2440	1.62	-2.69	53.85%
2450	1.95	-2.59	55.13%
2460	2.04	-2.76	53.03%
2470	2.05	-2.91	51.19%
2480	2.13	-2.93	50.97%
2490	2.33	-2.75	53.03%
2500	2.39	-2.67	54.04%
MIN	1.11	-2.93	51%
Max	2.39	-2.59	55.13%
AVG	1.77	-2.79	52.67%

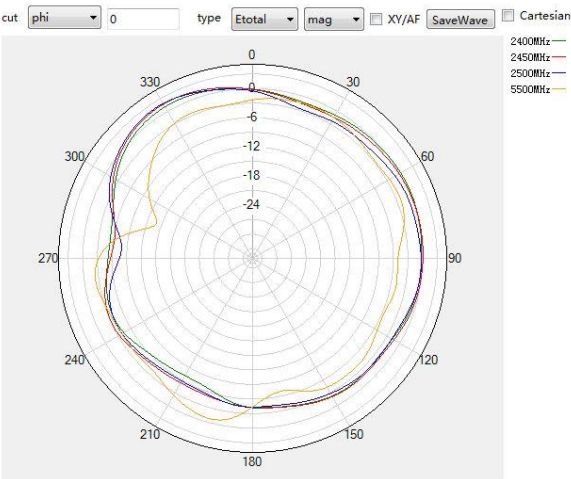
3D



$\theta = 90^\circ$ (XY Plane)



$\phi = 0^\circ$ (XZ Plane)



$\phi = 90^\circ$ (YZ Plane)

