



D2431 Antenna Report

2025.07.21



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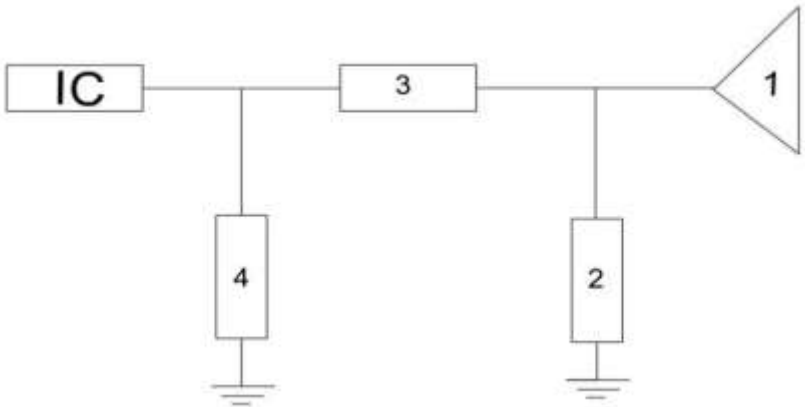


Conducted Data

Channel	Transmission Power	Sensitivity
CH0	10.63	-95
CH39	10.76	-95
CH78	10.18	-95



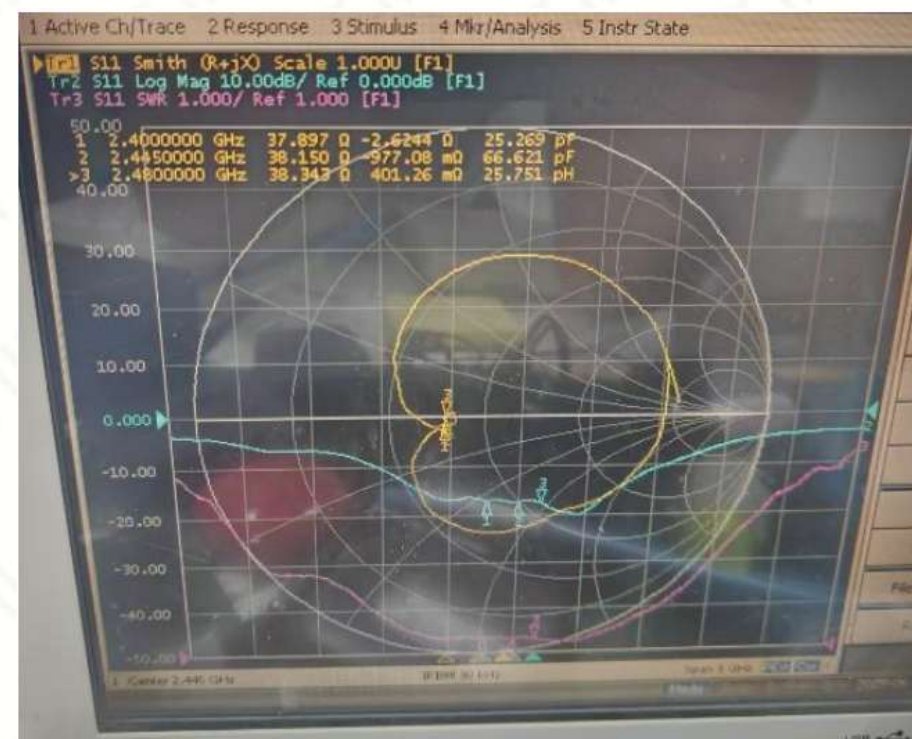
Matching Parameters



SN	Model	Specifications	Manufacturer	Part Number	Tolerance
1	Antenna		Ying feng	S2B4BB1F1B00073	
2	NC				
3	Capacitance	10PF/0402	Murata		±0.1PF
4	Capacitance	0.75PF/0402	Murata		±0.1PF



Antenna S-parameters



Return Loss

2.4GHz	-16.74
2.45GHz	-16.34
2.48GHz	-19.03

Impedance

2.4GHz	37.89Ω
2.45GHz	38.15Ω
2.48GHz	38.34Ω



Antenna S-parameters



Voltage Standing Wave Ratio

2.4GHz	1.36
2.45GHz	1.31
2.48GHz	1.28

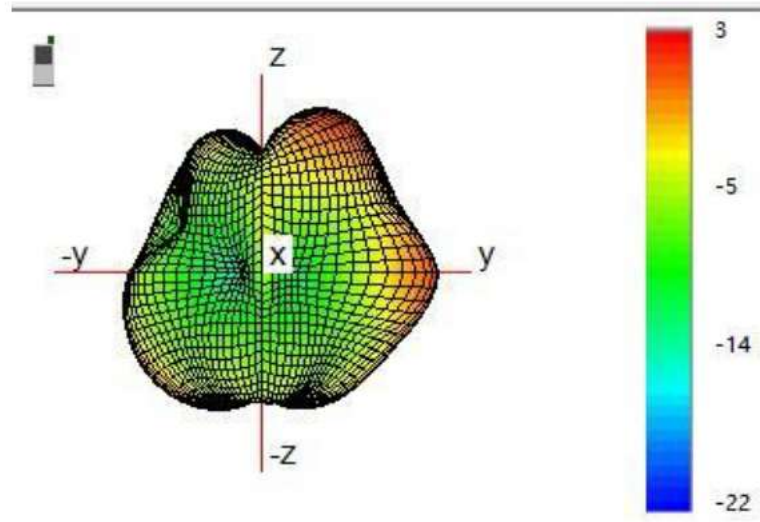
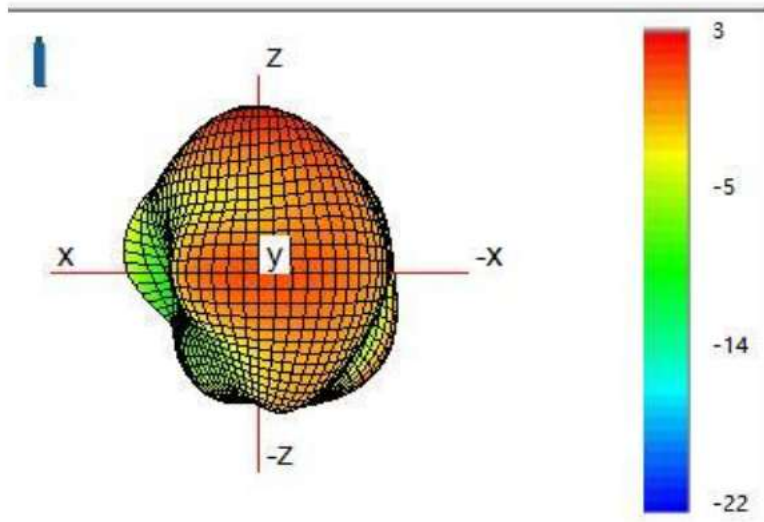
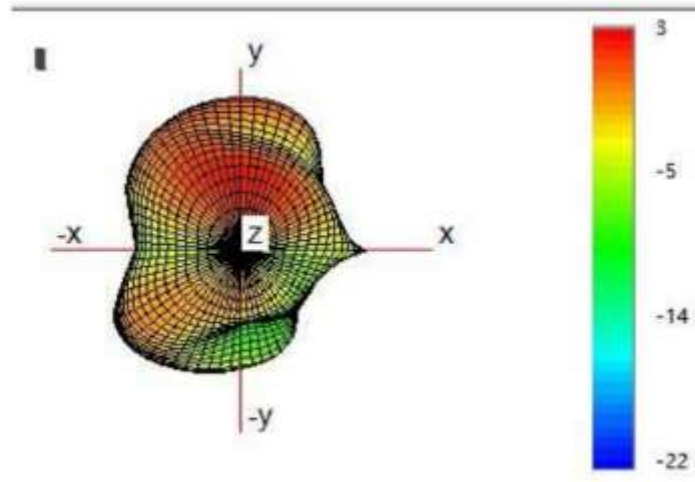
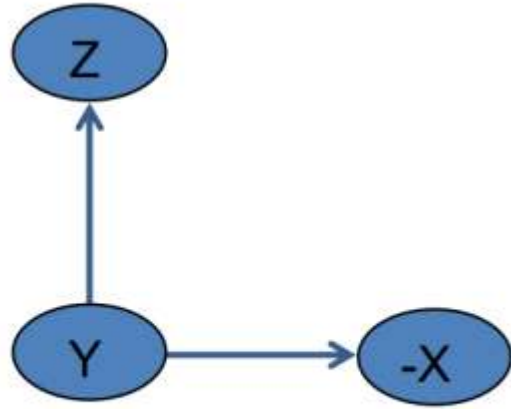


Antenna Efficiency

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.891436035	-2.686289933	53.87298092
2410	1.917054408	-2.739913239	53.21188896
2420	1.951252668	-2.886460884	51.44627224
2430	1.963241273	-2.958419603	50.6008765
2440	2.269397246	-2.850271591	51.87675961
2450	2.37623767	-2.902581038	51.2556678
2460	2.216909779	-3.14004684	48.52832662
2470	2.441830963	-3.046854464	49.58091686
2480	2.668553914	-2.913469761	51.12731947
2490	2.668080556	-2.998897653	50.13144635
2500	2.747343141	-2.997918097	50.14275483

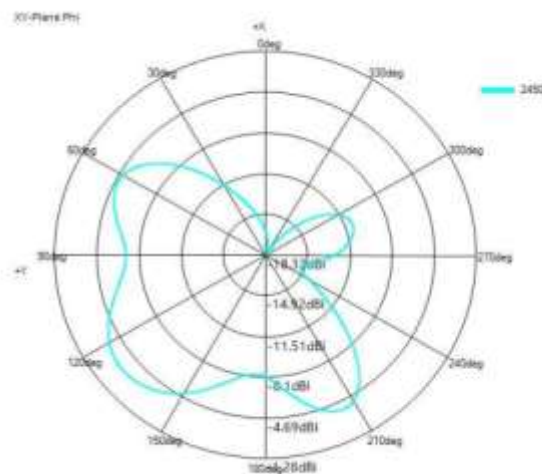
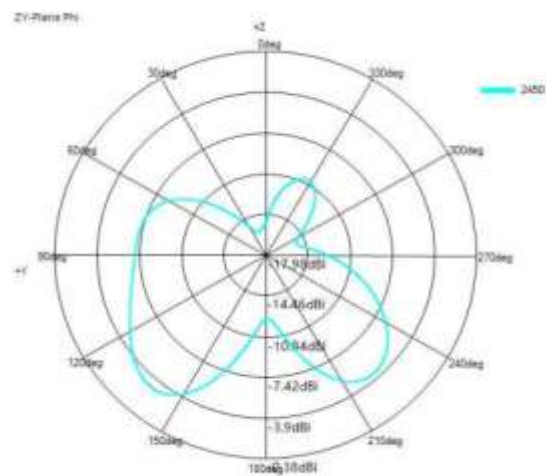
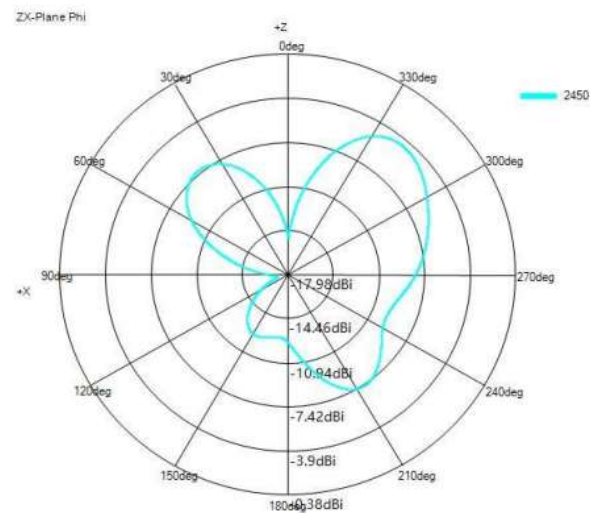
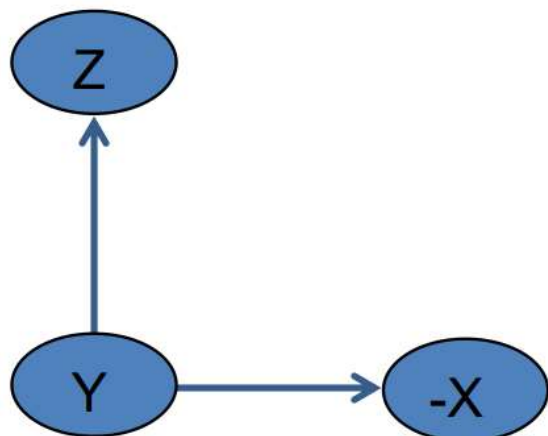


Free-field Passive Field Pattern





Passive 2D Radiation Pattern



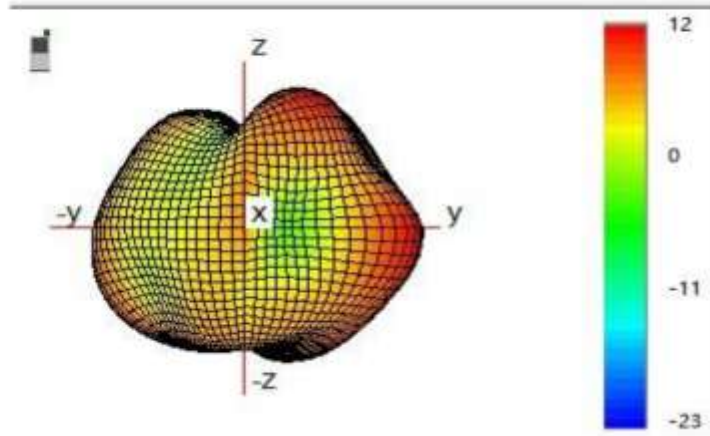
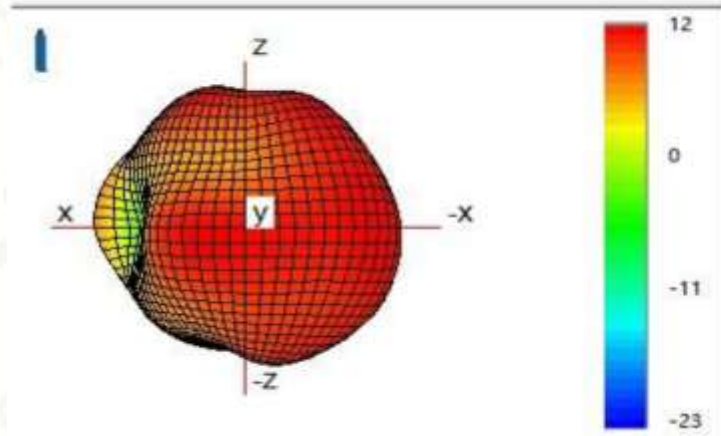
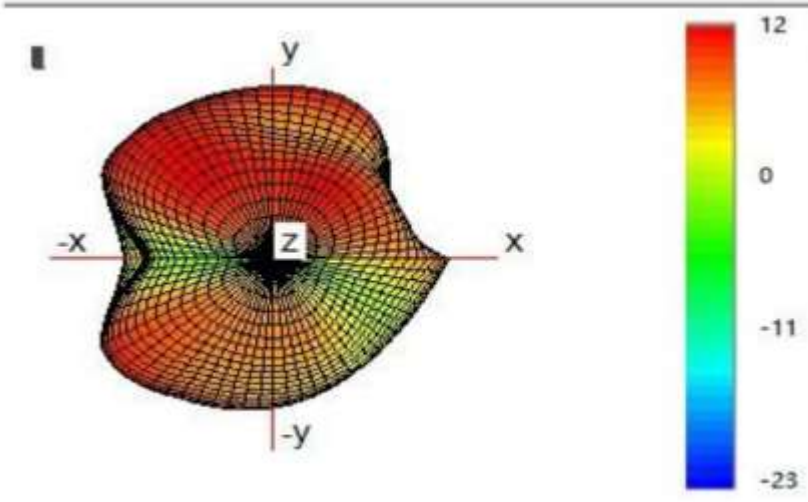
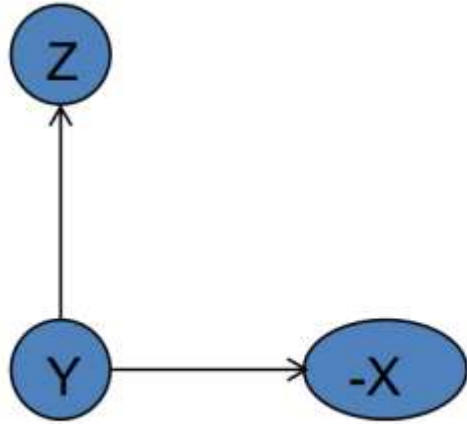


OTA Date

Channel	TRP(dBm)	TIS(dBm)
CH0	8.05	-93.35
CH39	8.1	-93.49
CH78	8.06	-93.39

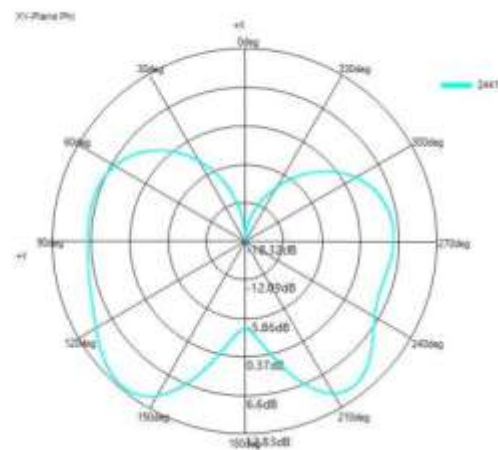
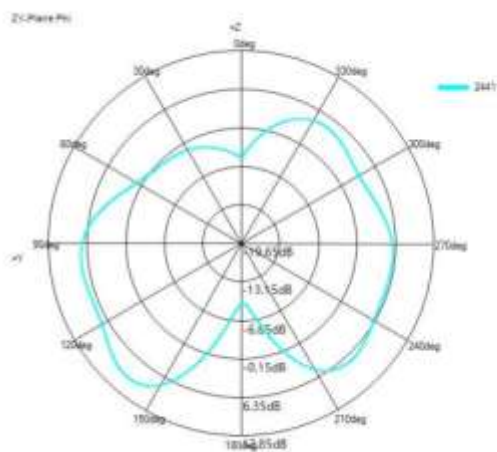
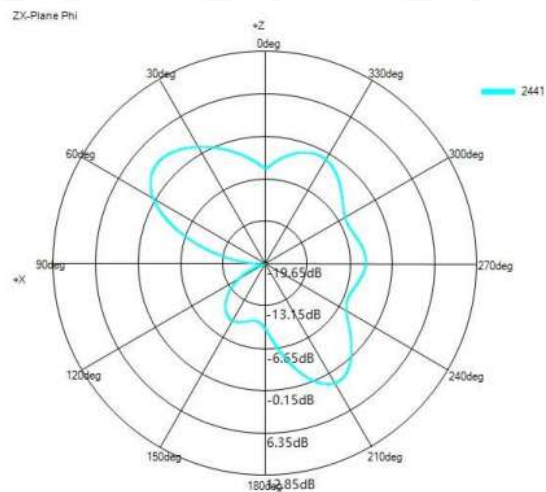
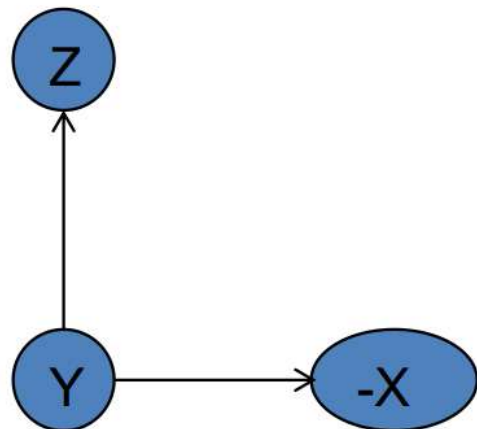


Active 3D Radiation Pattern





Active 2D Radiation Pattern



Let the best sound come from Minami

Thank you!

Minami Acoustics Limited

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