



Antenna Test Report

Customer : Xiaomi

Project : M79A

Product : Bluetooth Antenna

Date : 2022/11/15



Antenna Test Report

Test Setup for Radiation Pattern Measurement

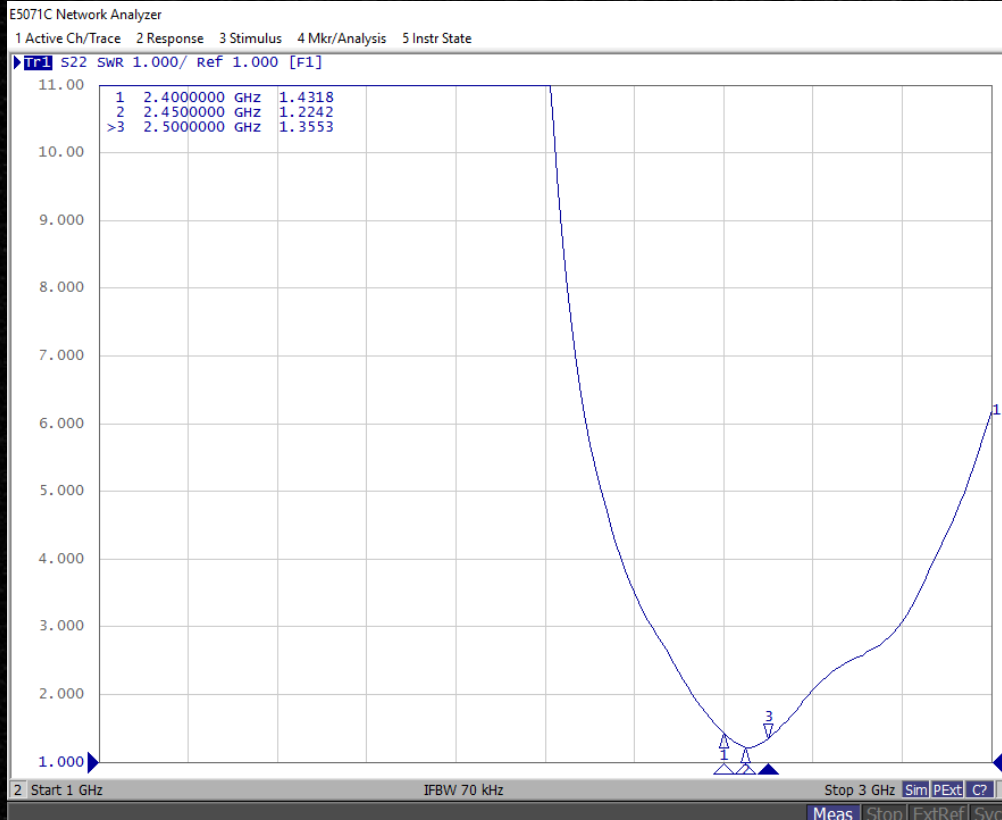


Equipment	Brand	Module Type
Network Analyzer	keysight	5071c (100K-8.5G)
Signal Generator	R&S	CMW500
Signal Generator	Agilent	E4438C
3D Anechoic chamber	General Test	RayZone 2800

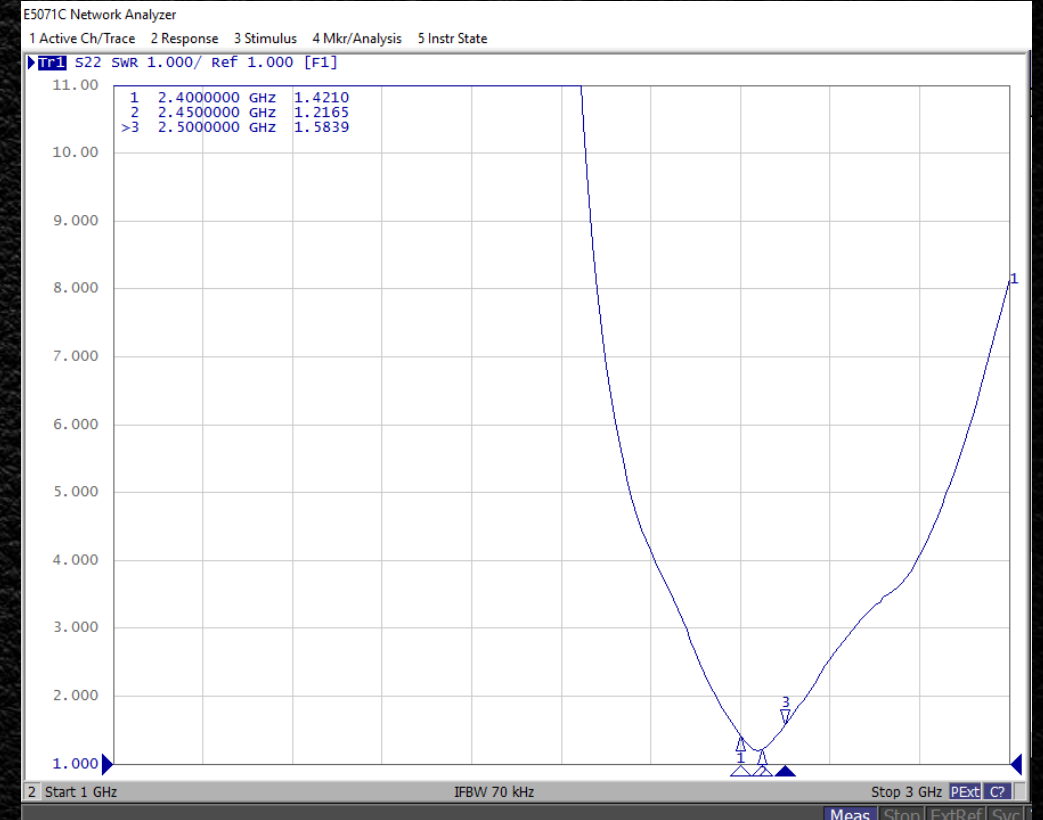


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VSWR Results



	Frequency (MHz)	2400	2450	2500
L	VSWR	1.43	1.22	1.35



	Frequency (MHz)	2400	2450	2500
R	VSWR	1.42	1.21	1.58

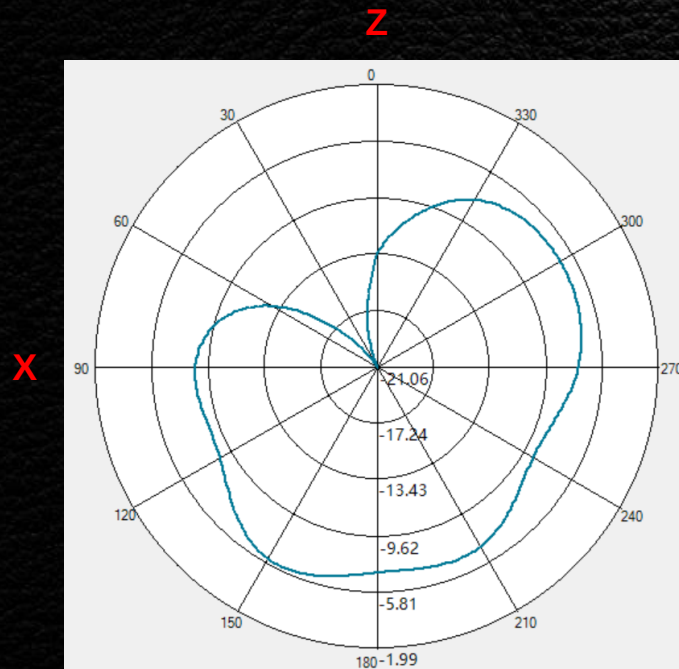


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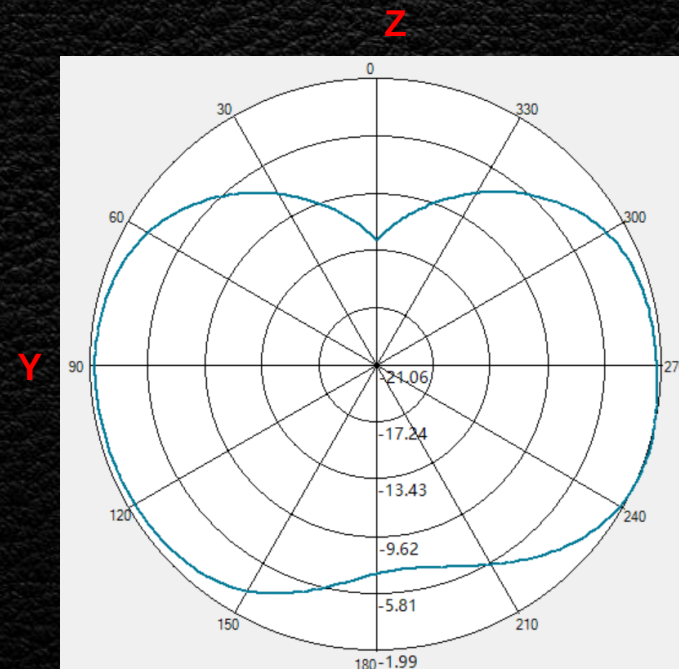
2D Radiation Pattern Results

L @ 2450MHz (Free Space)

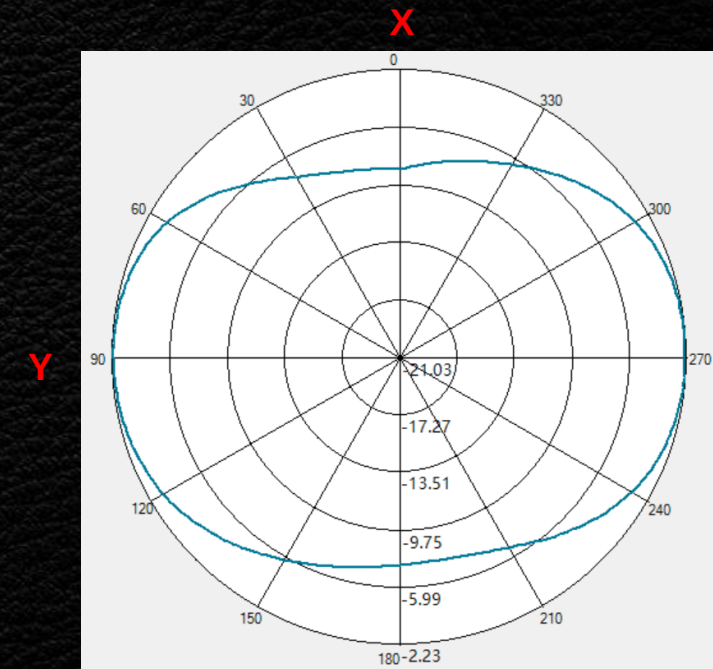
XZ-plane



YZ-plane



XY-plane



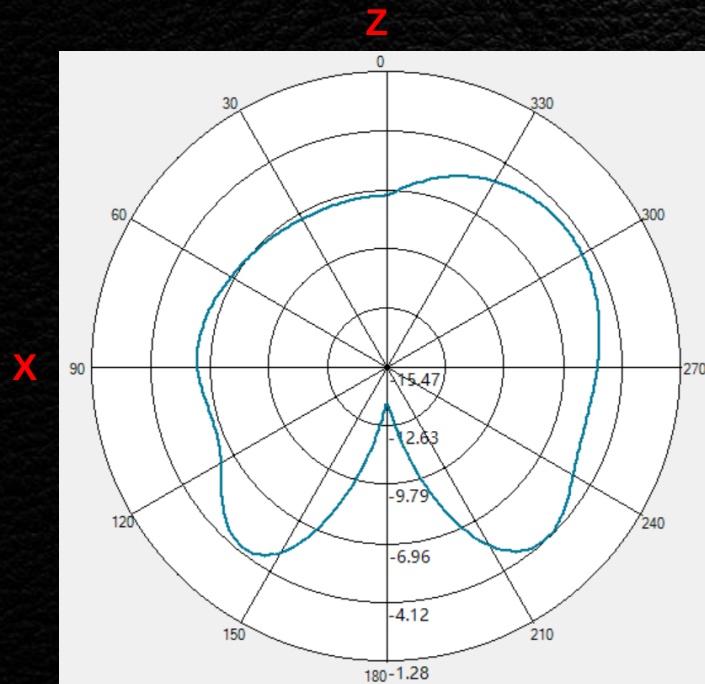


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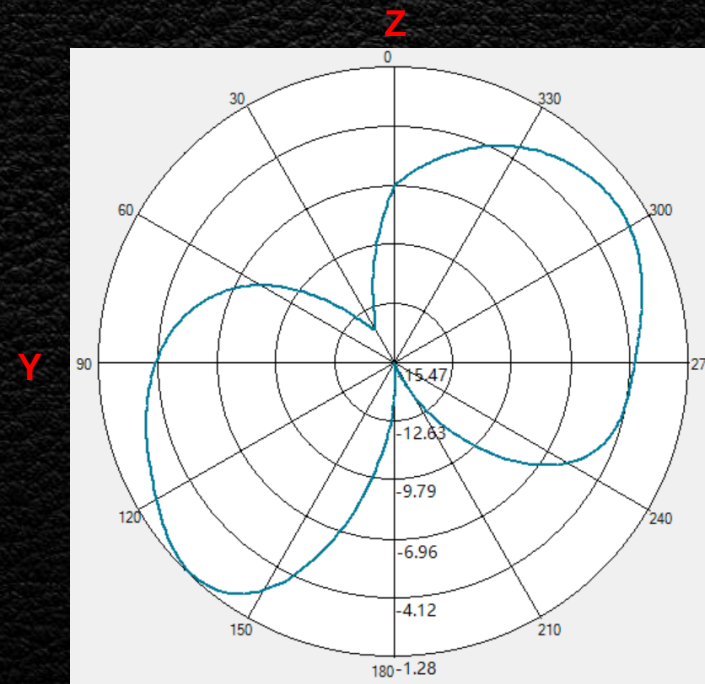
2D Radiation Pattern Results

R @ 2450MHz (Free Space)

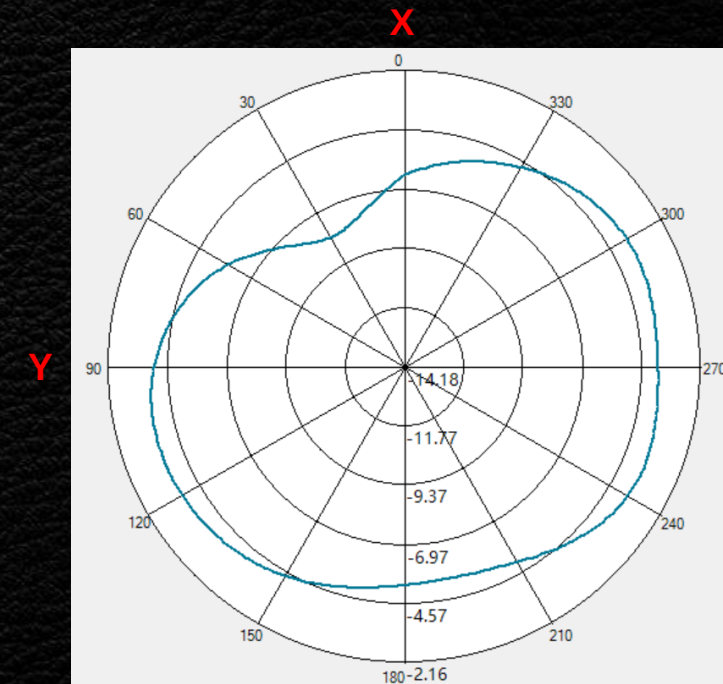
XZ-plane



YZ-plane



XY-plane



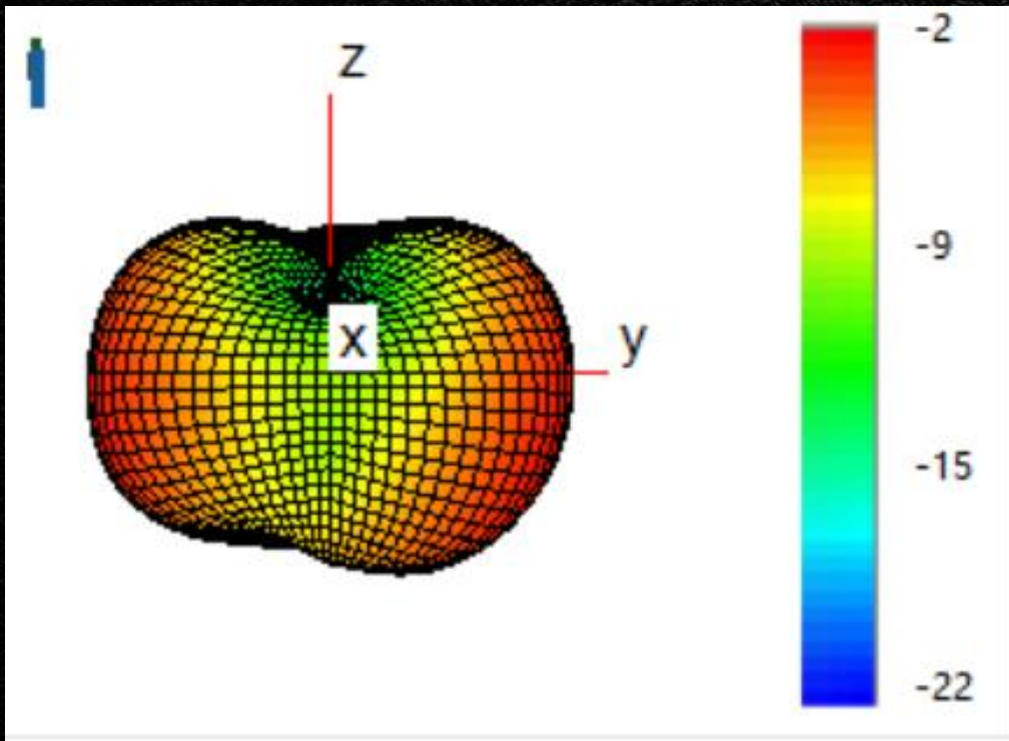


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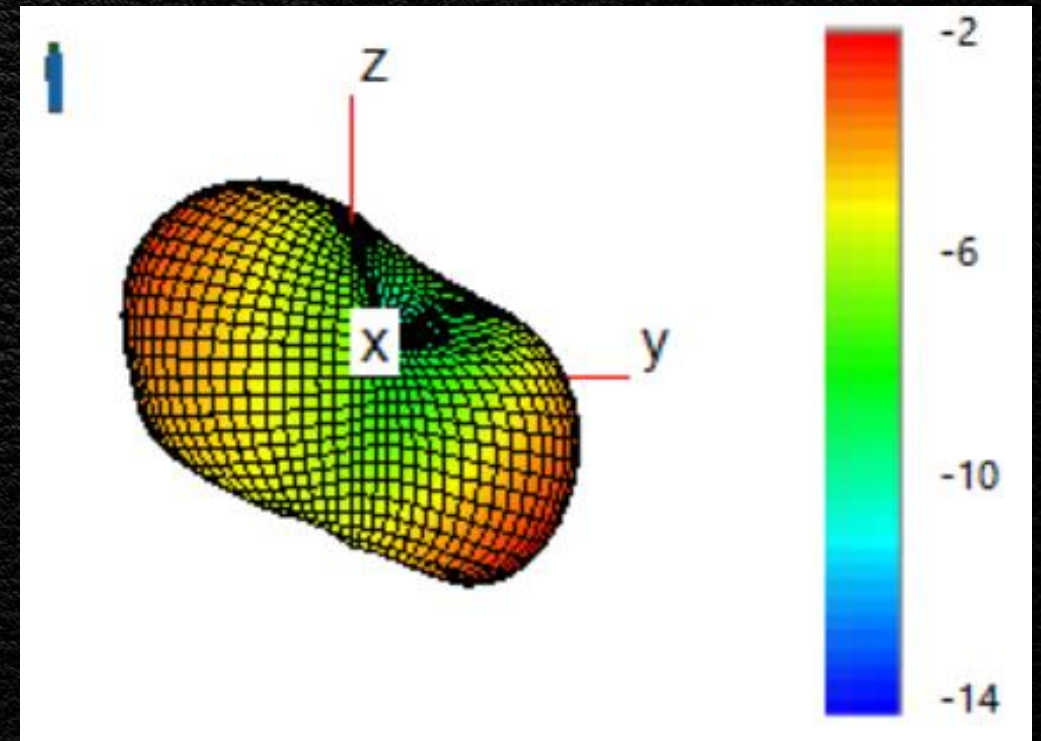
3D Radiation Pattern Results

L&R @2450MHz (Free Space)

L



R





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Results Summary

Gain & Efficiency (Free Space)

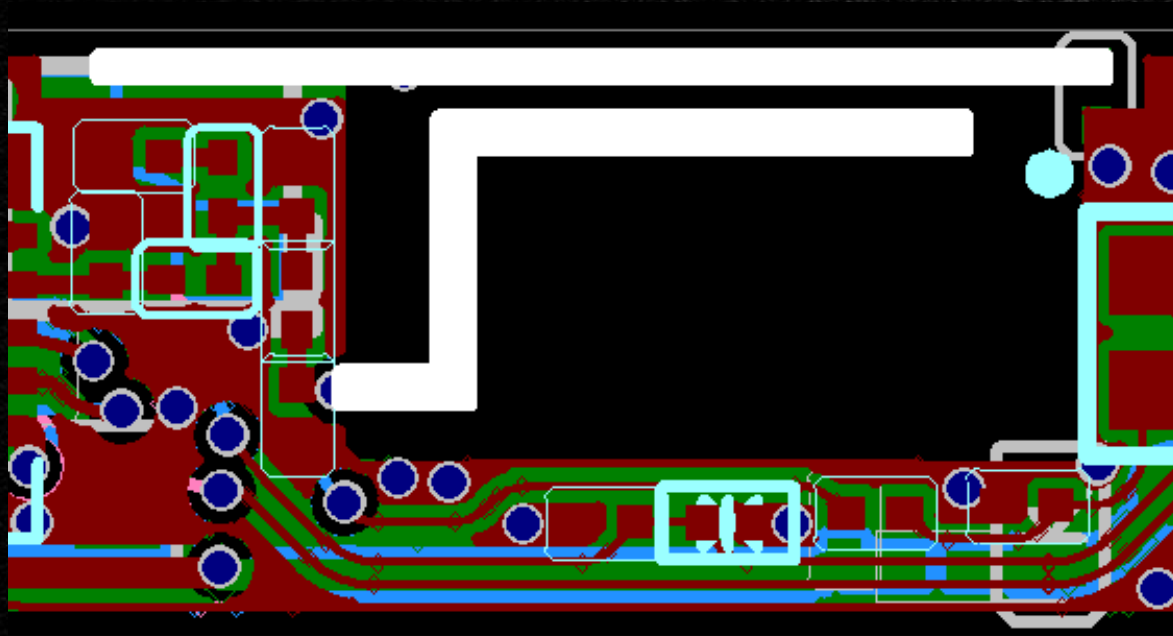
Frequency (MHZ)	L			R		
	Effi(dB)	Effi(%)	Gain(dBi)	Effi(dB)	Effi(%)	Gain(dBi)
2400	-5.5	28.2	-2.2	-5.1	31.2	-2.0
2410	-5.5	28.1	-2.2	-5.1	30.8	-2.0
2420	-5.5	28.2	-2.2	-5.1	30.7	-2.2
2430	-5.5	28.4	-2.2	-5.1	30.9	-2.2
2440	-5.5	28.4	-2.3	-5.1	30.9	-2.3
2450	-5.4	28.6	-1.9	-5.1	31.2	-2.3
2460	-5.5	28.3	-2.3	-5.1	31.2	-2.2
2470	-5.5	28.0	-2.3	-5.1	31.2	-2.1
2480	-5.6	27.8	-2.3	-5.0	31.5	-2.0
2490	-5.6	27.6	-2.2	-5.0	31.6	-1.9
2500	-5.8	26.4	-2.3	-5.1	30.8	-2.0



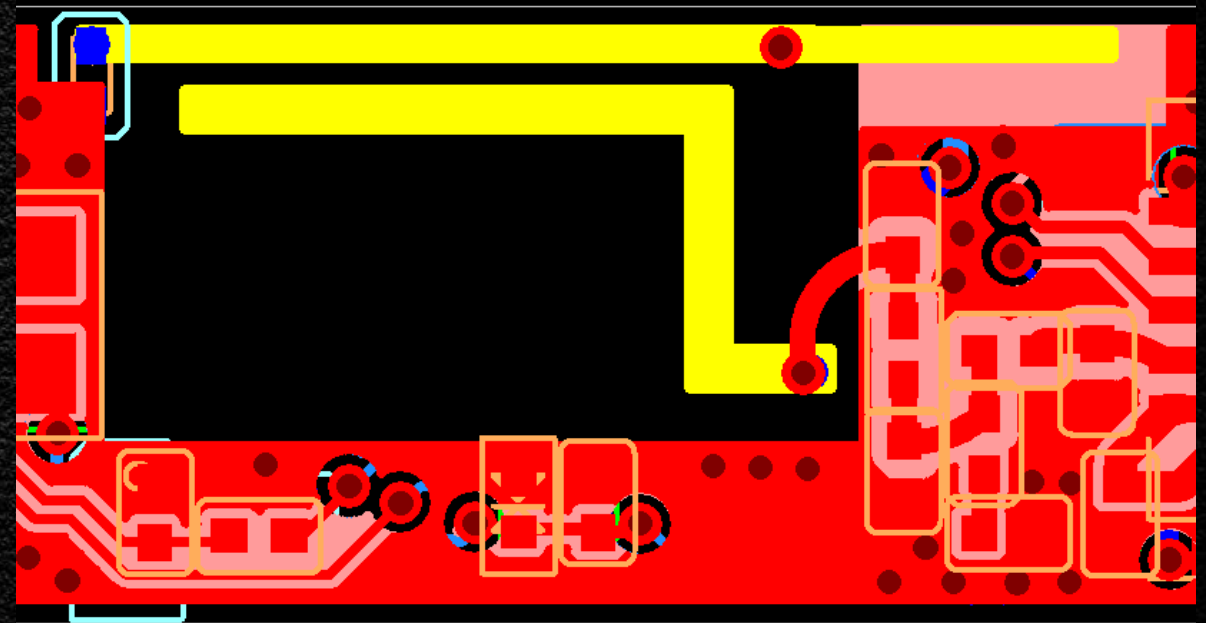
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ANT SIZE

L



R





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THANK YOU !

