



Dongguan YiJia Electronics Communication Technology Co.,Ltd.

Antenna test report

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Approval : Yin Tao

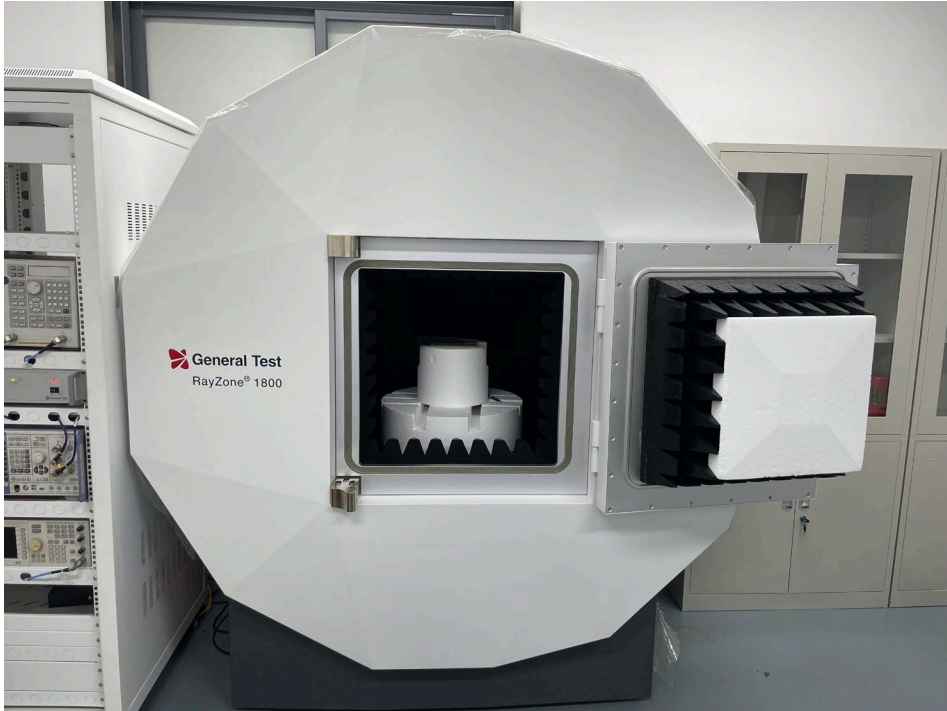
Date : 2025 /08/ 19



Project name	A80S
Name of antenna	FPC
Antenna form	PIFA
Radiate	Omni-directional
Polarization	Line polarization



1. Antenna Passive Test



test equipment list:

Equipment	Manufacturer	Model No	Serial No	Last Cal	Due Date
Metwork Analyzer	Agilent	E5071C	MY46686666	2025/7/15	2026/1/15
Antenna	GTS	Probe antenna12Matrix	NC	2025/4/8	2026/4/8
Chamber	General Test	RayZone ®1800	CT10123480A2258	2025/4/8	2026/4/8



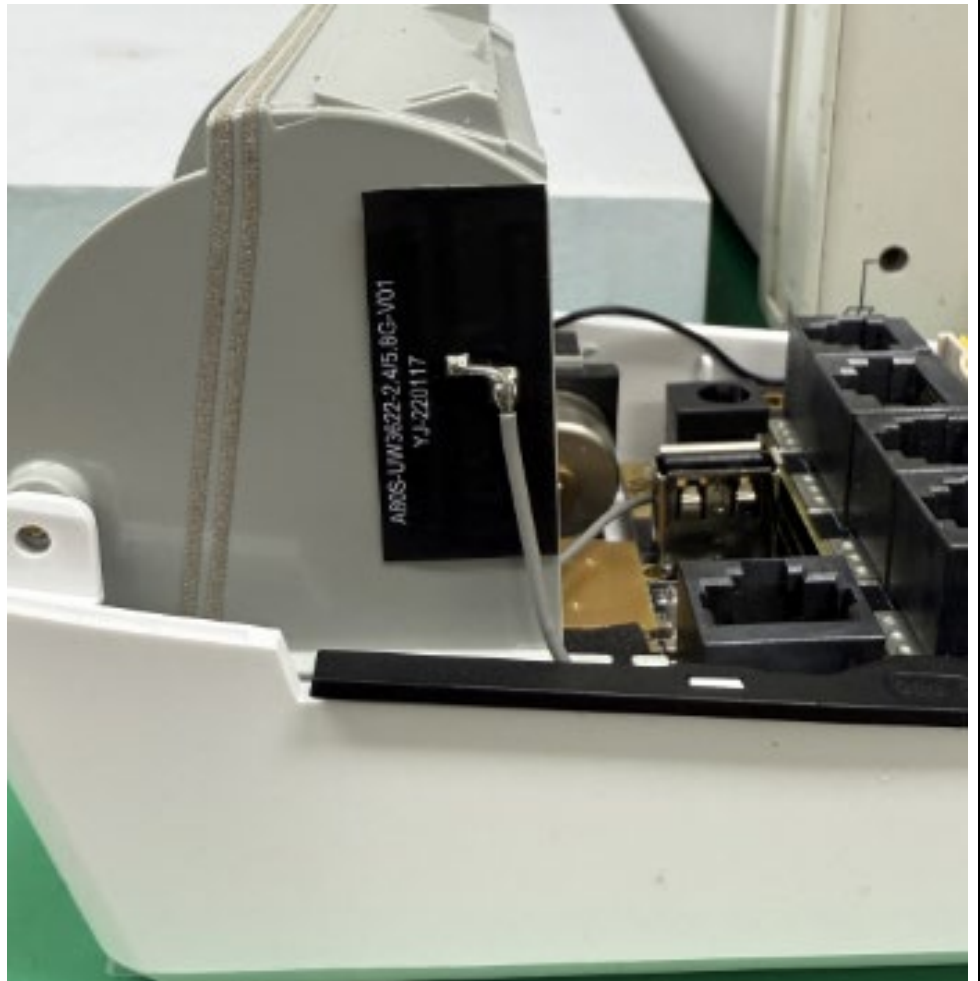
2. Device Profile

<i>Device</i>	please refer to the operation description.
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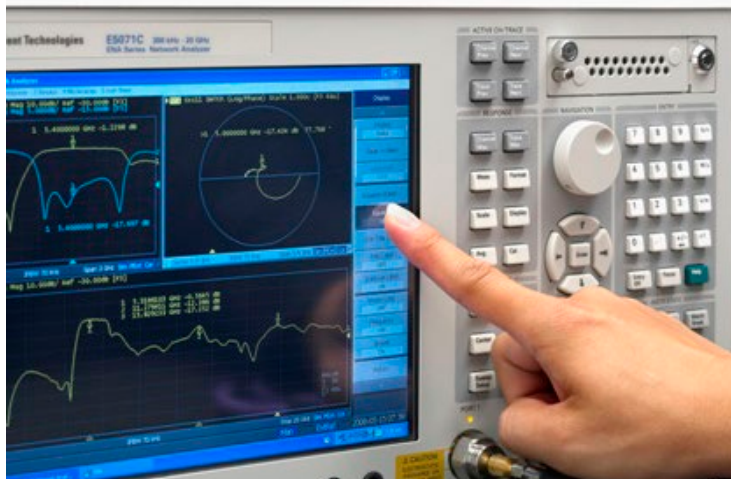
3. WIFI Antenna Test

*WiFi
Antenna*

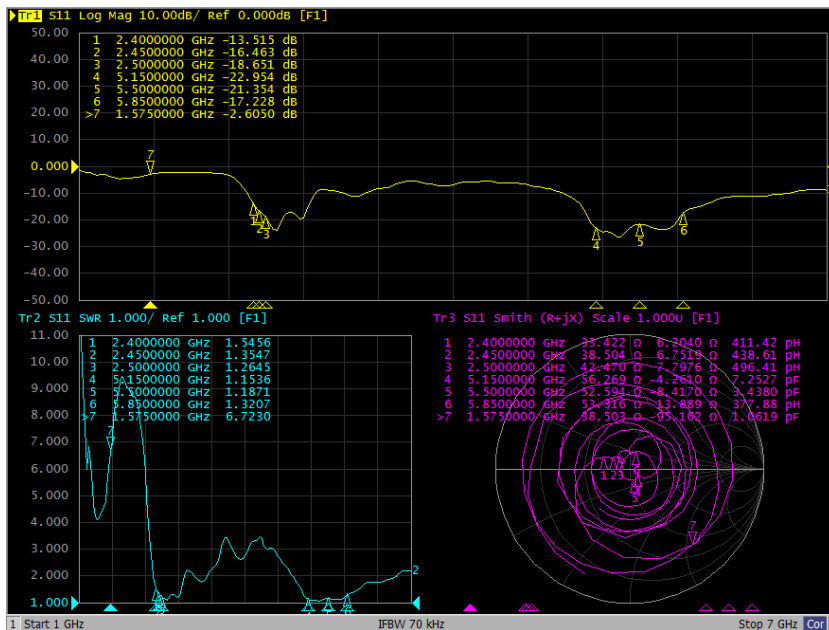




Agilent E5071C



S_{11} Parameter Test //WiFi Antenna



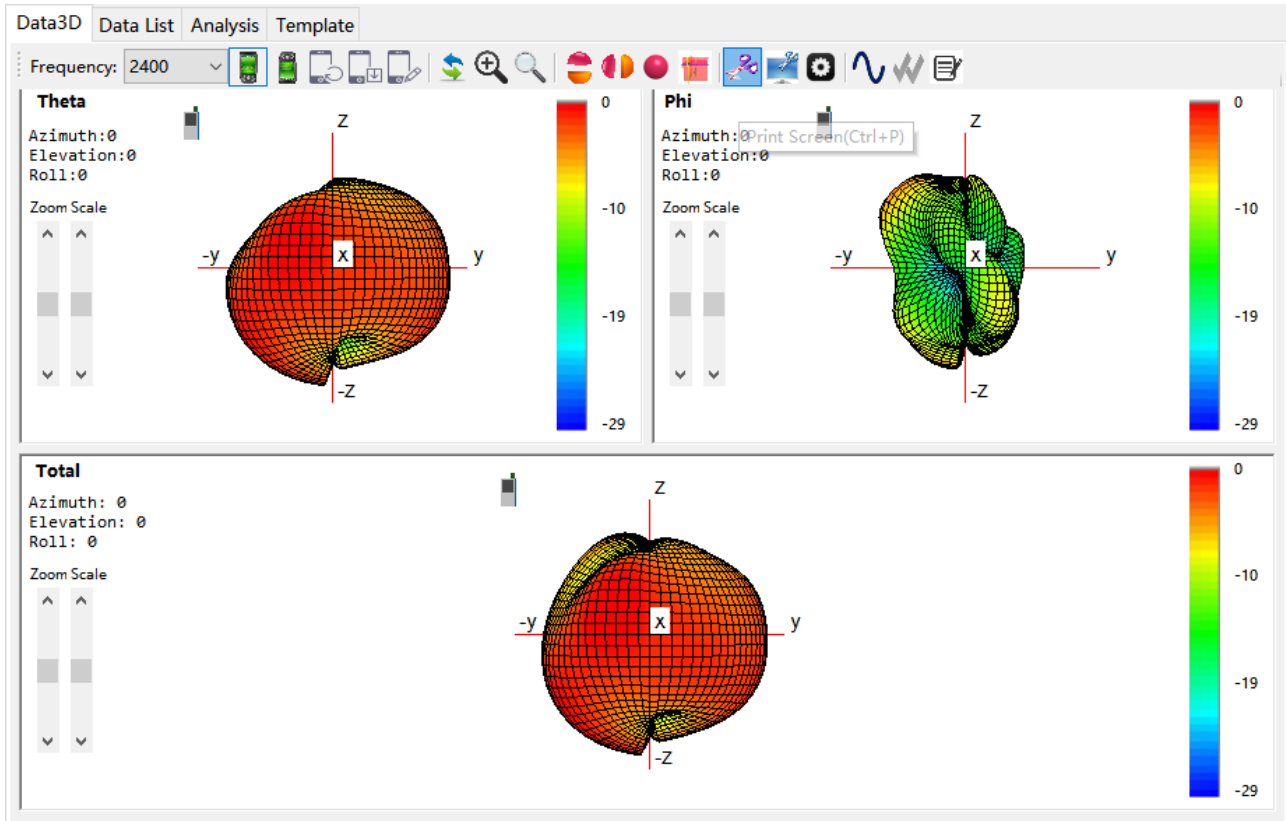


Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	39.77	-4	-0.2
2410	41.17	-3.85	-0.07
2420	42.47	-3.72	0.04
2430	43.07	-3.66	0.12
2440	43.4	-3.63	0.07
2450	43.43	-3.62	0.01
2460	43.45	-3.62	-0.07
2470	44.36	-3.53	0.13
2480	44.56	-3.51	0.3
2490	44.49	-3.52	0.4
2500	45.11	-3.46	0.51

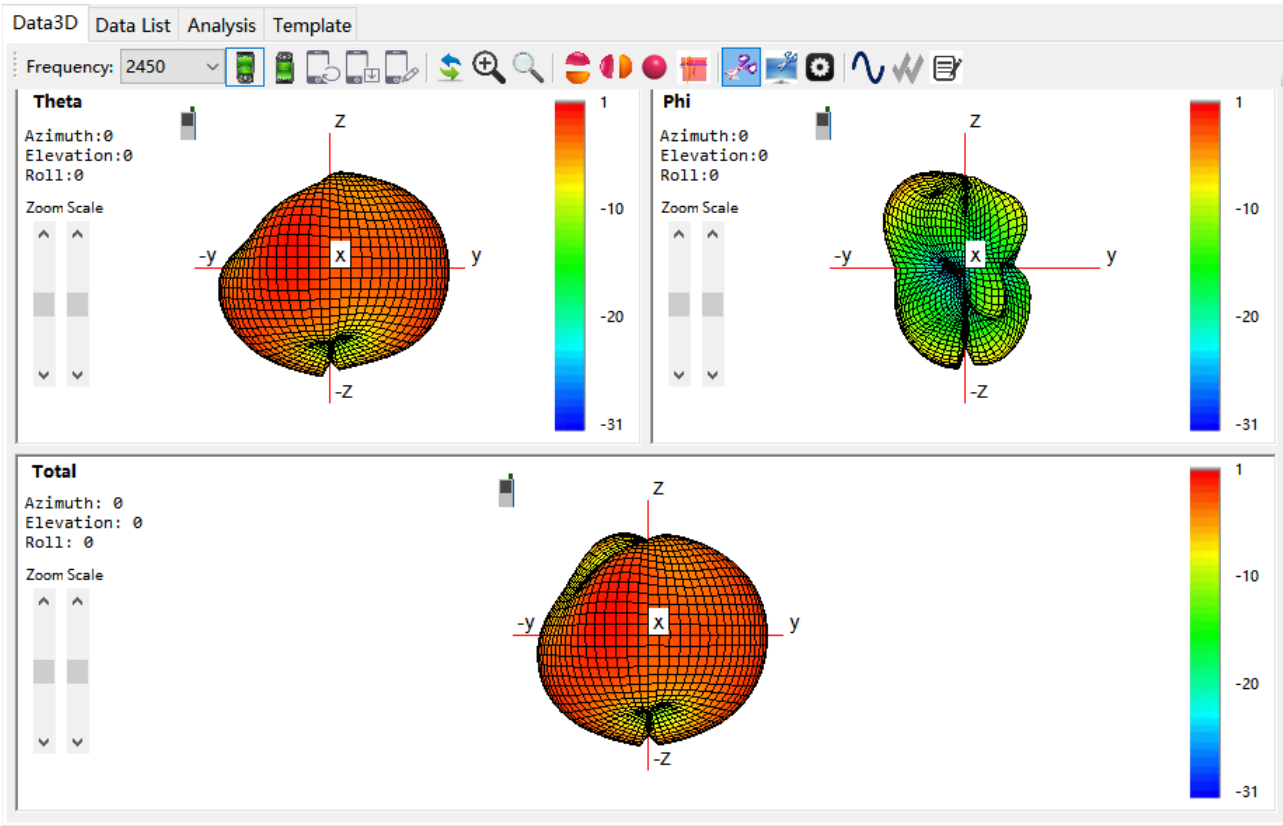


Radiation Pattern For WIFI Antenna(2400MHz)



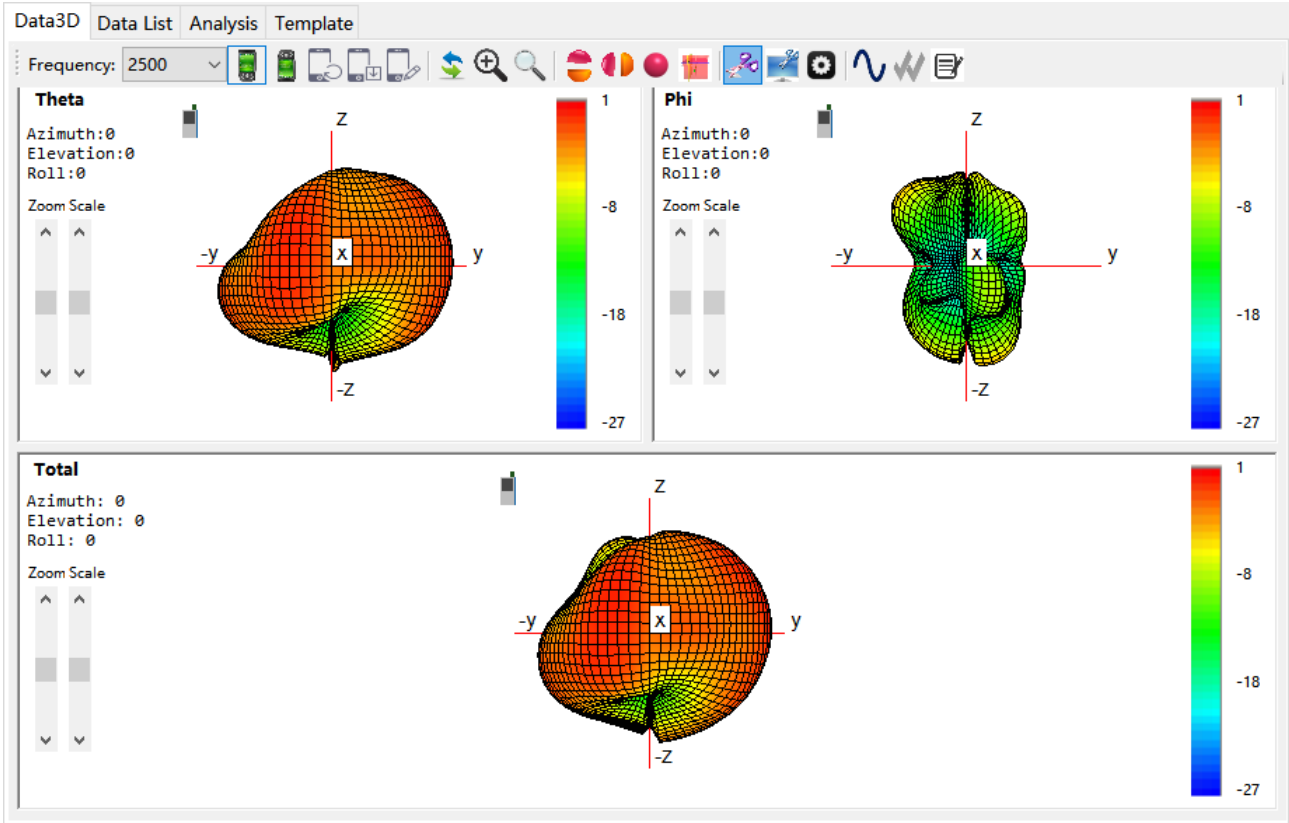


Radiation Pattern For WIFI Antenna(2450MHz)





Radiation Pattern For WIFI Antenna(2500MHz)



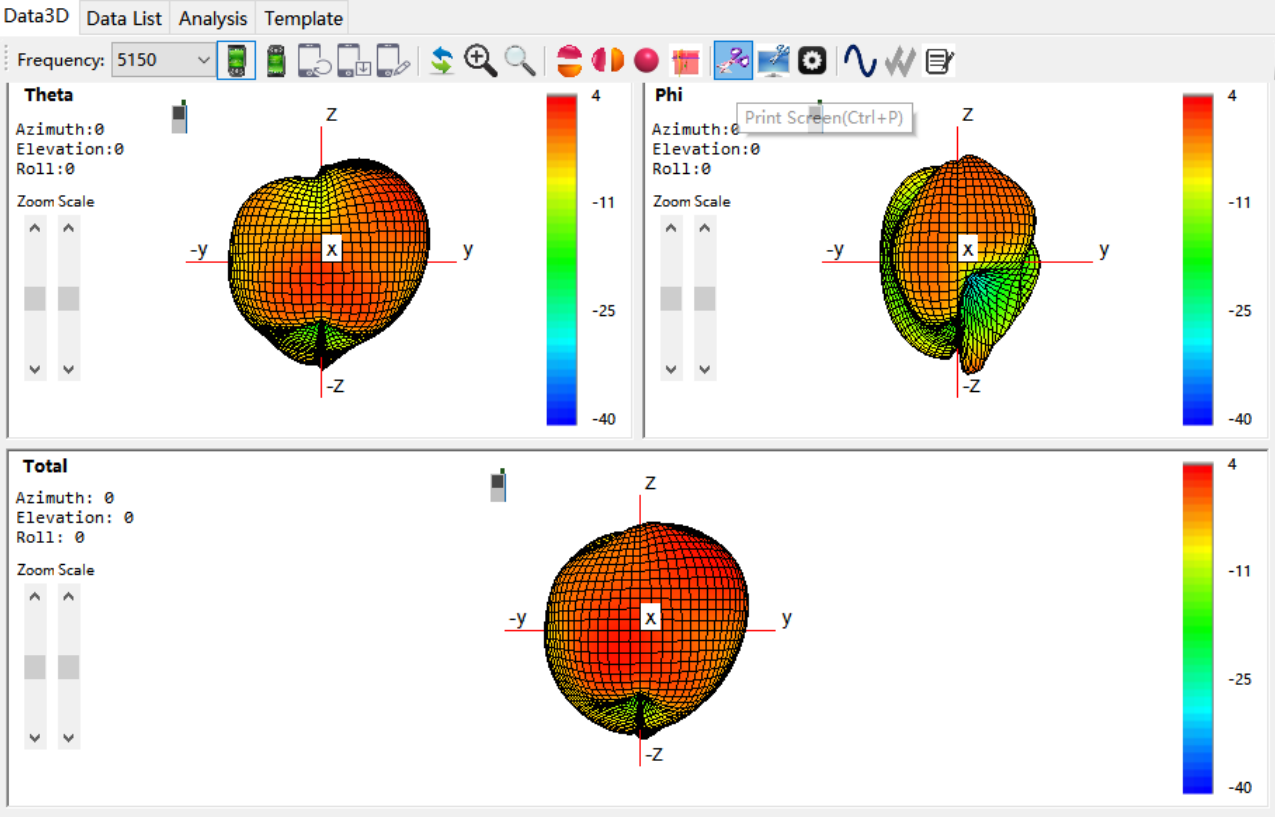


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	57.38	-2.41	3.12
5200	60.66	-2.17	3.28
5250	58.76	-2.31	2.73
5300	56.08	-2.51	2.37
5350	59.84	-2.23	2.6
5400	62.97	-2.01	2.72
5450	66.53	-1.77	2.89
5500	59.63	-2.25	2.38
5550	62.76	-2.02	2.94
5600	65.17	-1.86	3.66
5650	66.39	-1.78	4.08
5700	64.69	-1.89	4
5750	62.04	-2.07	3.72
5800	66.02	-1.8	4
5850	63.88	-1.95	4.26

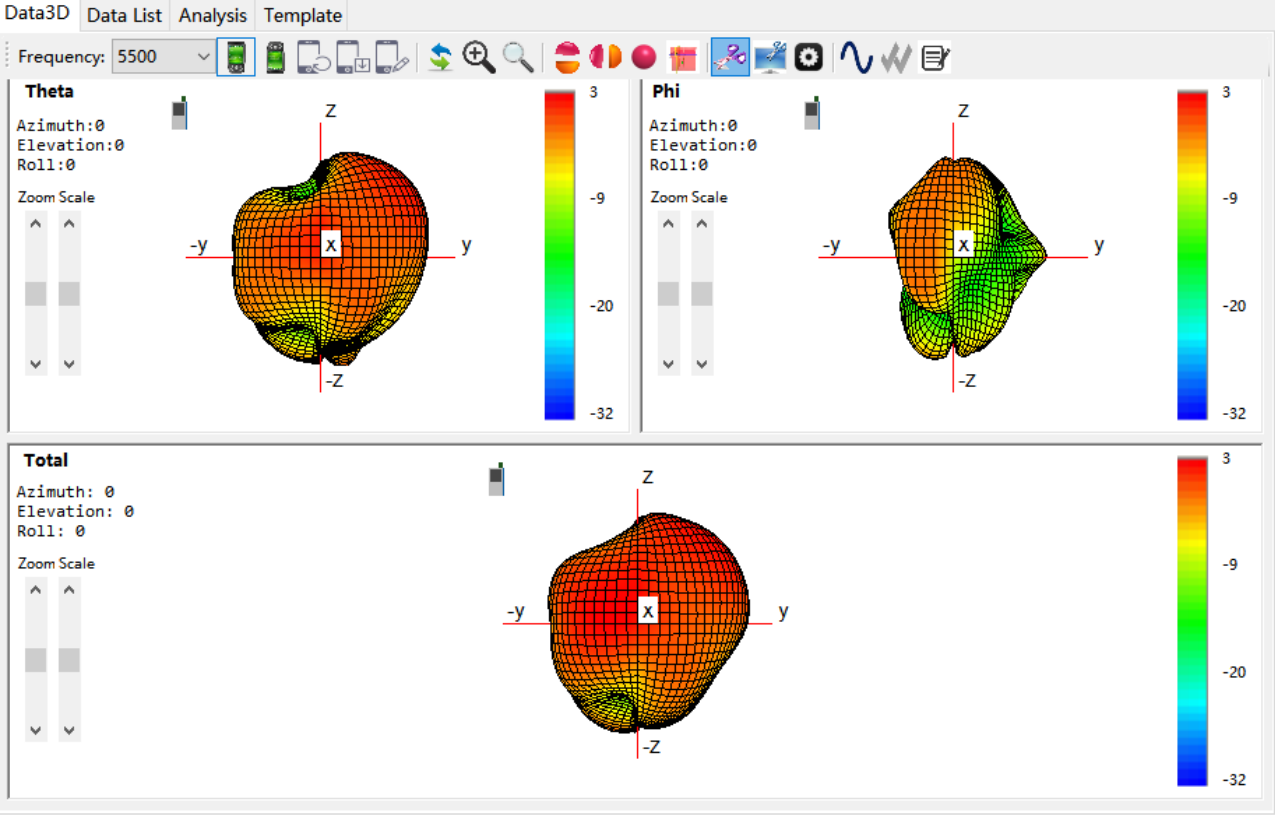


Radiation Pattern For WIFI Antenna(5150MHz)



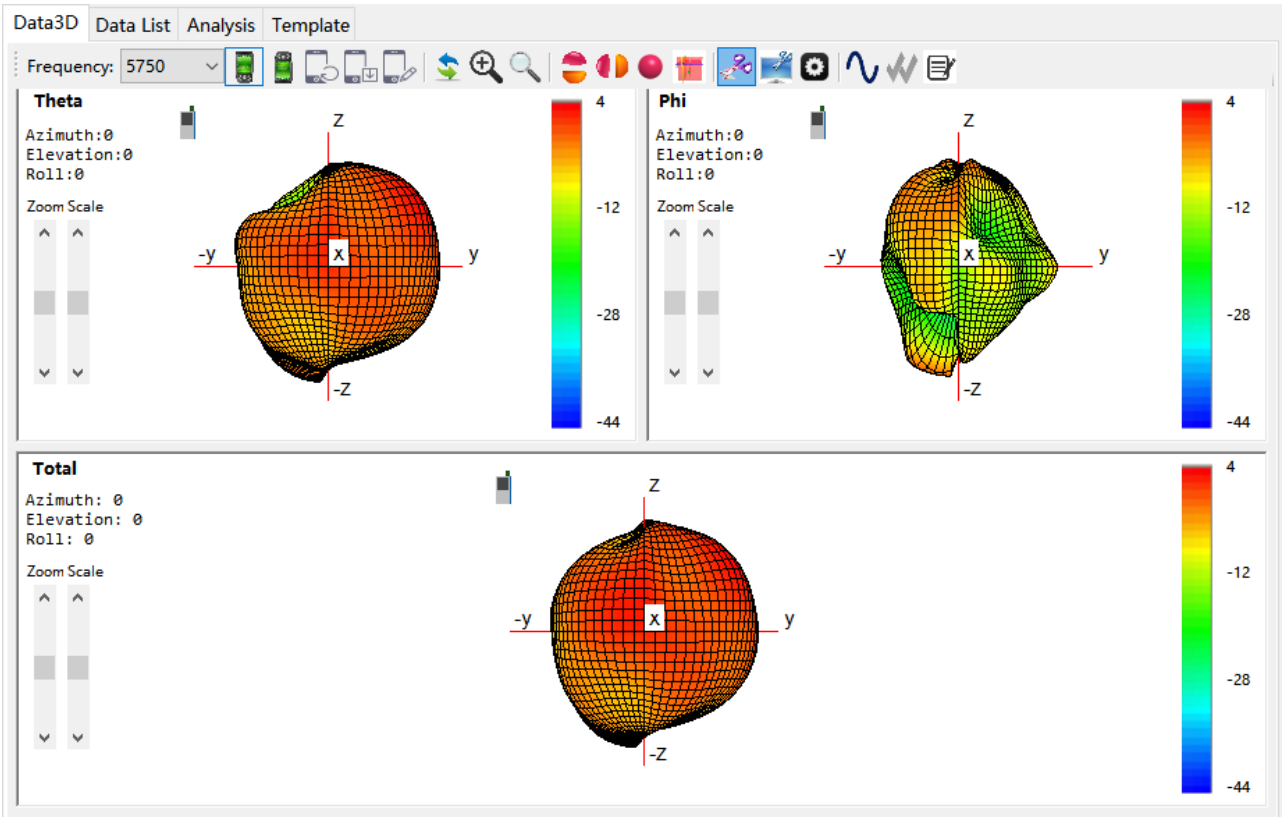


Radiation Pattern For WIFI Antenna(5500MHz)



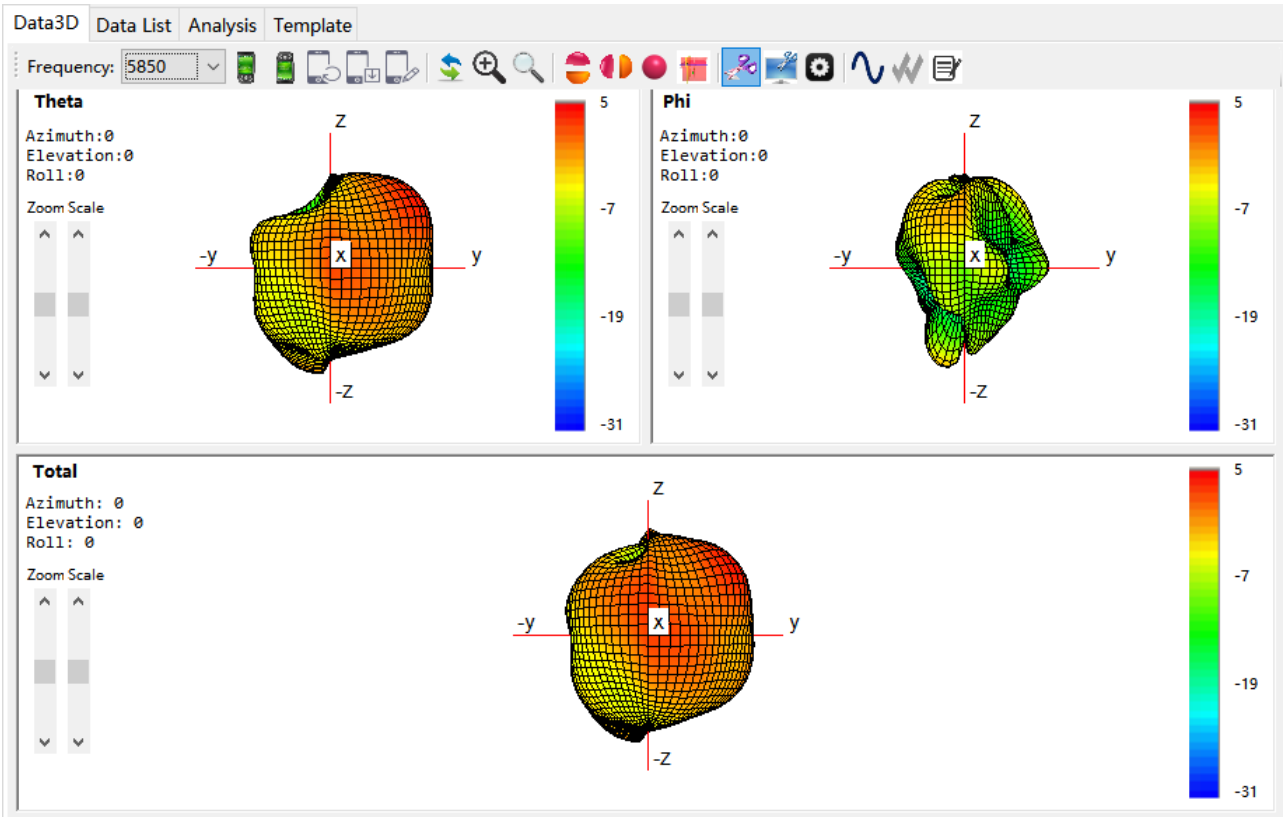


Radiation Pattern For WIFI Antenna(5750MHz)





Radiation Pattern For WIFI Antenna(5850MHz)





4.WiFi Antenna size

