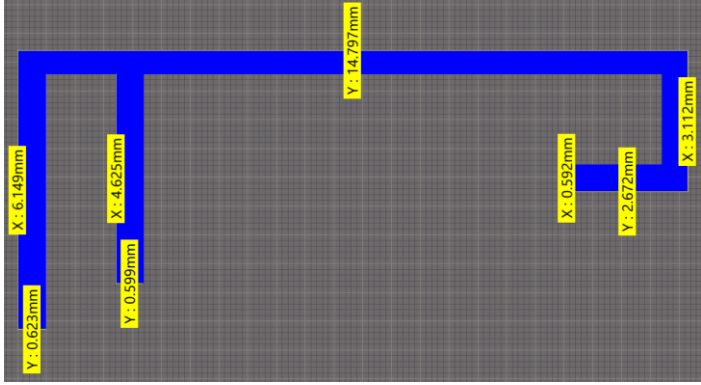
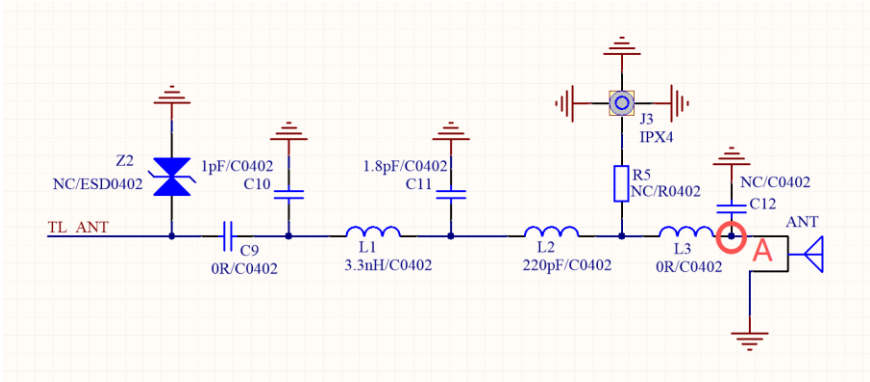
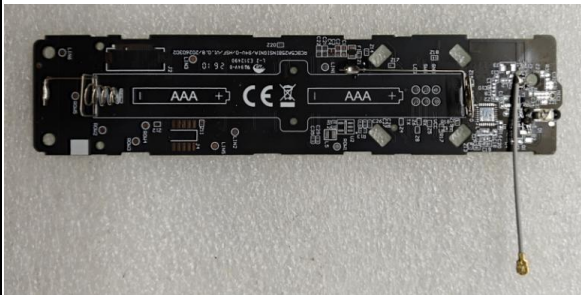
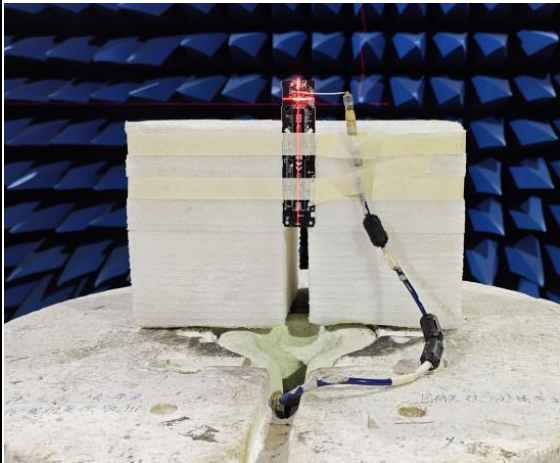
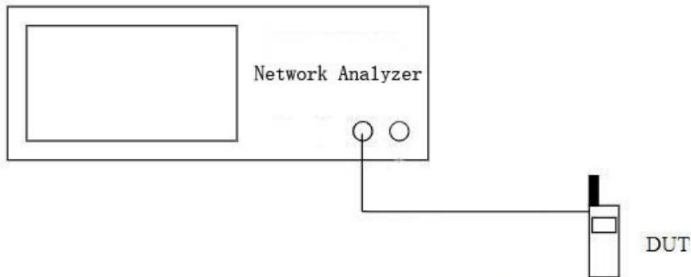
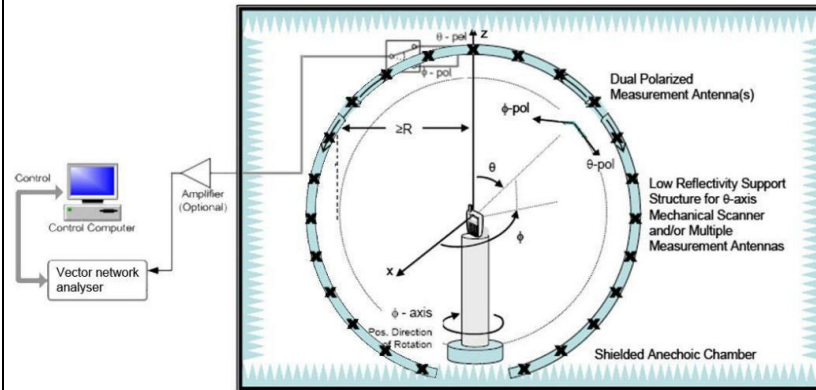


Product Name	PCB On-board Antenna					
Antenna Model	NS-RCFNA-21					
Manufacturer Address	Huizhou Kedisheng Technology Co., Ltd. Hengjiangwei Village Committee, Yihe West Industrial Zone, Boluo County, Huizhou City, Guangdong Province, China					
Antenna Type	Board-printed PCB antenna					
Test Laboratory Name	ZTX SATIMO SG24 Anechoic Chamber					
Test Laboratory Address	No. 34, Shilong Avenue, Shiyan Street, Bao'an District, Shenzhen City, China					
Test Date	March 13, 2026					
Test Engineer	Zhao Feng					
Test Software	Satimo.Spm					
Software Version	1.5.5					
Test standard	IEEE Std 149-2021					
Calibration Equipment	Instrument	Manufacturer	Model	Serial No.	Calibration Date	Calibration Expiry
	Vector Network Analyzer	Keysight	E5071C	MY47002902	2025. 04. 14	2026. 04. 13
	Vector Network Analyzer	Agilent	E5071C	MY46521960	2025. 04. 14	2026. 04. 13
	SG24 Antenna Test System	SATIMO	SG24		2025. 04. 14	2026. 04. 13
Antenna Drawing						
External Antenna Feed Point: A						

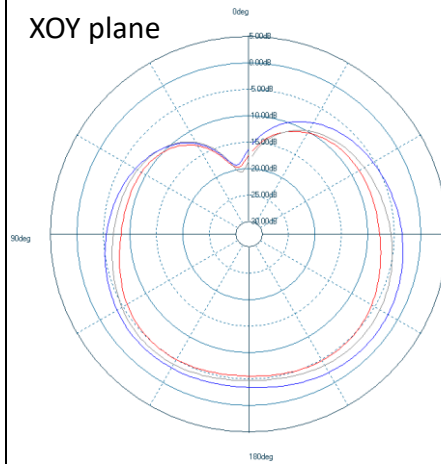
	Antenna efficiency, gain, and pattern measurement:																																																				
Test Setup Photo																																																					
																																																					
Antenna Efficiency & Gain	<table><tr><th>Frequency</th><th colspan="2">Efficiency</th><th>Peak Gain</th></tr><tr><th>Mhz</th><th>%</th><th>dB</th><th>dB</th></tr><tr><td>2400</td><td>66.09</td><td>-1.80</td><td>2.94</td></tr><tr><td>2410</td><td>62.69</td><td>-2.03</td><td>2.75</td></tr><tr><td>2420</td><td>61.22</td><td>-2.13</td><td>2.58</td></tr><tr><td>2430</td><td>61.36</td><td>-2.12</td><td>2.70</td></tr><tr><td>2440</td><td>57.40</td><td>-2.41</td><td>2.39</td></tr><tr><td>2450</td><td>53.97</td><td>-2.68</td><td>2.38</td></tr><tr><td>2460</td><td>48.24</td><td>-3.17</td><td>1.93</td></tr><tr><td>2470</td><td>48.78</td><td>-3.12</td><td>1.75</td></tr><tr><td>2480</td><td>45.72</td><td>-3.40</td><td>1.69</td></tr><tr><td>2490</td><td>44.18</td><td>-3.55</td><td>1.63</td></tr><tr><td>2500</td><td>43.24</td><td>-3.64</td><td>1.45</td></tr></table>	Frequency	Efficiency		Peak Gain	Mhz	%	dB	dB	2400	66.09	-1.80	2.94	2410	62.69	-2.03	2.75	2420	61.22	-2.13	2.58	2430	61.36	-2.12	2.70	2440	57.40	-2.41	2.39	2450	53.97	-2.68	2.38	2460	48.24	-3.17	1.93	2470	48.78	-3.12	1.75	2480	45.72	-3.40	1.69	2490	44.18	-3.55	1.63	2500	43.24	-3.64	1.45
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Test Procedure	S11 parameter measurement: 																																																				

Efficiency, gain, and pattern measurement:

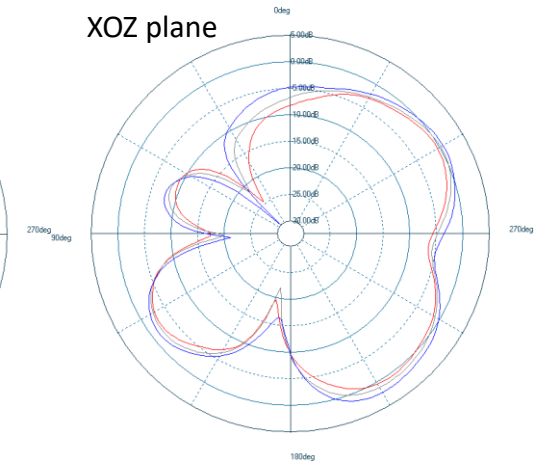


2D or 3D Pattern

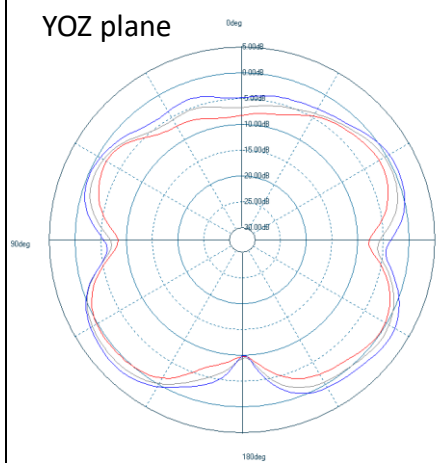
XOY plane



XOZ plane



YOZ plane



2450 MHz 3D radiation pattern

