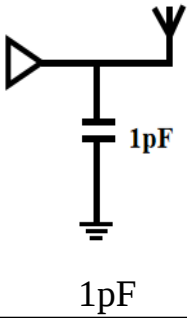
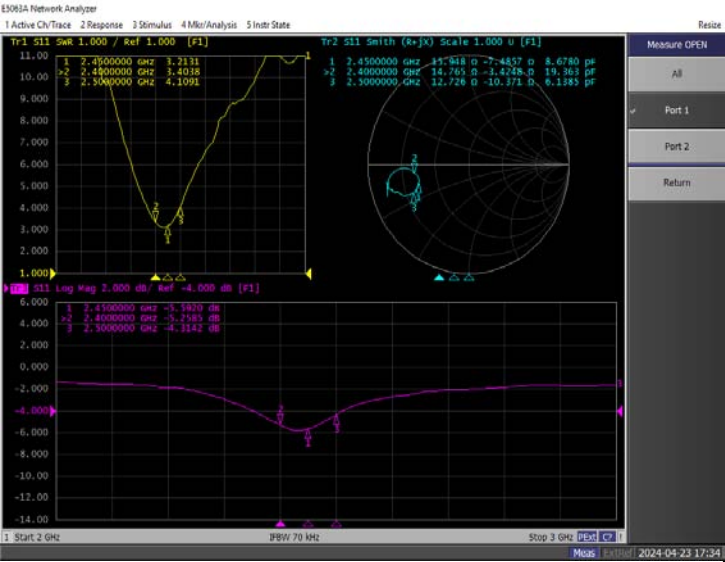
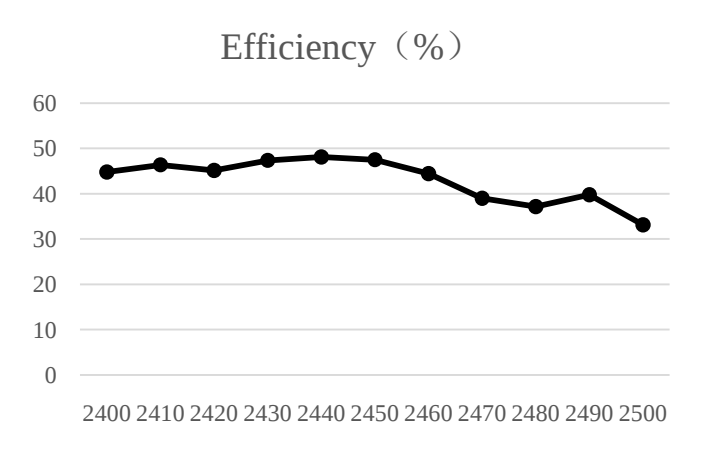
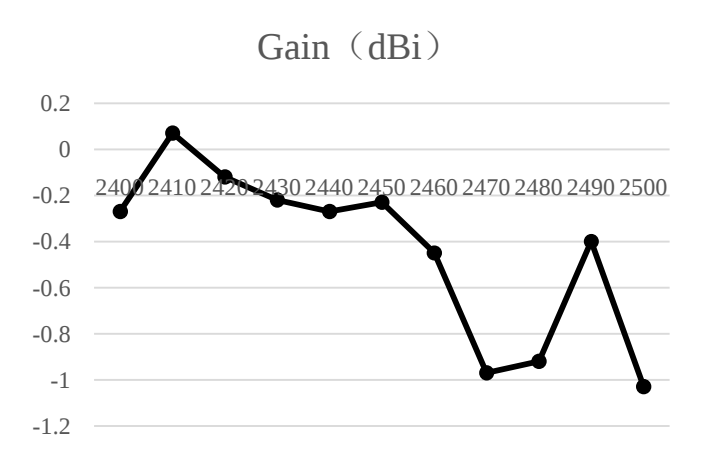


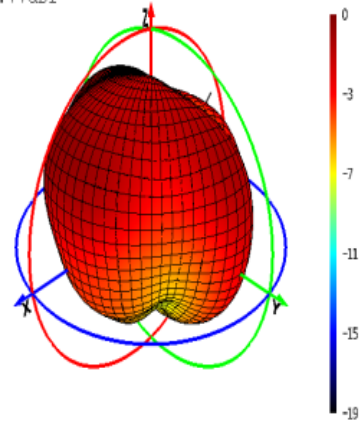
Manufacturer: Xiamen Milesight IoT Co., Ltd.
Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China
Model: VS125-2.4G WiFi

ANT		2.4G WiFi
	appearance	
	antenna board	
	antenna size	30×13×1 mm ³
building-out circuit		

impedance characteristic	 The screenshot shows the E5092A Network Analyzer interface. The top plot is a Smith chart for S11, with a yellow trace showing a resonance at approximately 2.45 GHz. The bottom plot is a Log Mag plot for S11, showing a deep null at the same frequency. The right sidebar contains measurement options for Port 1, Port 2, and Return.																								
efficiency	Efficiency (%)  This line graph shows the efficiency of the device across a frequency range from 2400 MHz to 2500 MHz. The efficiency starts at approximately 45% at 2400 MHz, peaks at about 48% around 2440 MHz, and then generally decreases to about 33% at 2500 MHz. <table border="1"><thead><tr><th>Freq (MHz)</th><th>Efficiency (%)</th></tr></thead><tbody><tr><td>2400</td><td>45</td></tr><tr><td>2410</td><td>46</td></tr><tr><td>2420</td><td>45</td></tr><tr><td>2430</td><td>47</td></tr><tr><td>2440</td><td>48</td></tr><tr><td>2450</td><td>47</td></tr><tr><td>2460</td><td>44</td></tr><tr><td>2470</td><td>39</td></tr><tr><td>2480</td><td>37</td></tr><tr><td>2490</td><td>40</td></tr><tr><td>2500</td><td>33</td></tr></tbody></table>	Freq (MHz)	Efficiency (%)	2400	45	2410	46	2420	45	2430	47	2440	48	2450	47	2460	44	2470	39	2480	37	2490	40	2500	33
Freq (MHz)	Efficiency (%)																								
2400	45																								
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2450	47																								
2460	44																								
2470	39																								
2480	37																								
2490	40																								
2500	33																								
gain	Gain (dBi)  This line graph shows the gain of the device across the same frequency range. The gain starts at -0.3 dBi at 2400 MHz, peaks at 0.1 dBi at 2410 MHz, and then generally decreases, reaching a minimum of -1.1 dBi at 2470 MHz, before rising to -0.4 dBi at 2490 MHz and dropping again to -1.1 dBi at 2500 MHz. <table border="1"><thead><tr><th>Freq (MHz)</th><th>Gain (dBi)</th></tr></thead><tbody><tr><td>2400</td><td>-0.3</td></tr><tr><td>2410</td><td>0.1</td></tr><tr><td>2420</td><td>-0.1</td></tr><tr><td>2430</td><td>-0.2</td></tr><tr><td>2440</td><td>-0.3</td></tr><tr><td>2450</td><td>-0.2</td></tr><tr><td>2460</td><td>-0.5</td></tr><tr><td>2470</td><td>-1.1</td></tr><tr><td>2480</td><td>-0.9</td></tr><tr><td>2490</td><td>-0.4</td></tr><tr><td>2500</td><td>-1.1</td></tr></tbody></table>	Freq (MHz)	Gain (dBi)	2400	-0.3	2410	0.1	2420	-0.1	2430	-0.2	2440	-0.3	2450	-0.2	2460	-0.5	2470	-1.1	2480	-0.9	2490	-0.4	2500	-1.1
Freq (MHz)	Gain (dBi)																								
2400	-0.3																								
2410	0.1																								
2420	-0.1																								
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2440	-0.3																								
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2460	-0.5																								
2470	-1.1																								
2480	-0.9																								
2490	-0.4																								
2500	-1.1																								
	Freq=2450MHz																								

directional diagram

MAX:-0.23dBi
MIN:-19.77dBi



2.4G WiFi	Frequency ID	1	2	3	4	5	6	7	8	9	10	11
	Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Gain (dBi)	-0.27	0.07	-0.12	-0.22	-0.27	-0.23	-0.45	-0.97	-0.92	-0.4	-1.03
	Efficiency (dB)	-3.49	-3.34	-3.46	-3.24	-3.18	-3.23	-3.52	-4.09	-4.3	-4	-4.8
	Efficiency (%)	44.78	46.38	45.13	47.37	48.12	47.5	44.44	38.99	37.18	39.78	33.14