

Acknowledgement

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Tonly Technology Co., Ltd.

PRODUCT NAME: 2.4G Internal antenna L=205mm

CUSTOMER P/N:

Ren Feng P/N: U00T02S000N02719 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Huang Lei	
AUDITOR BY:	Liu Xiaolin	
APPROVED BY:	Yao Dingjun	
DATE:	2023-02-13	

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<i>Item</i>	<i>Description</i>
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五、 -----	Test report
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一、 Change your resume

REV	DATE	Change record
A	2023-02-13	Initial release

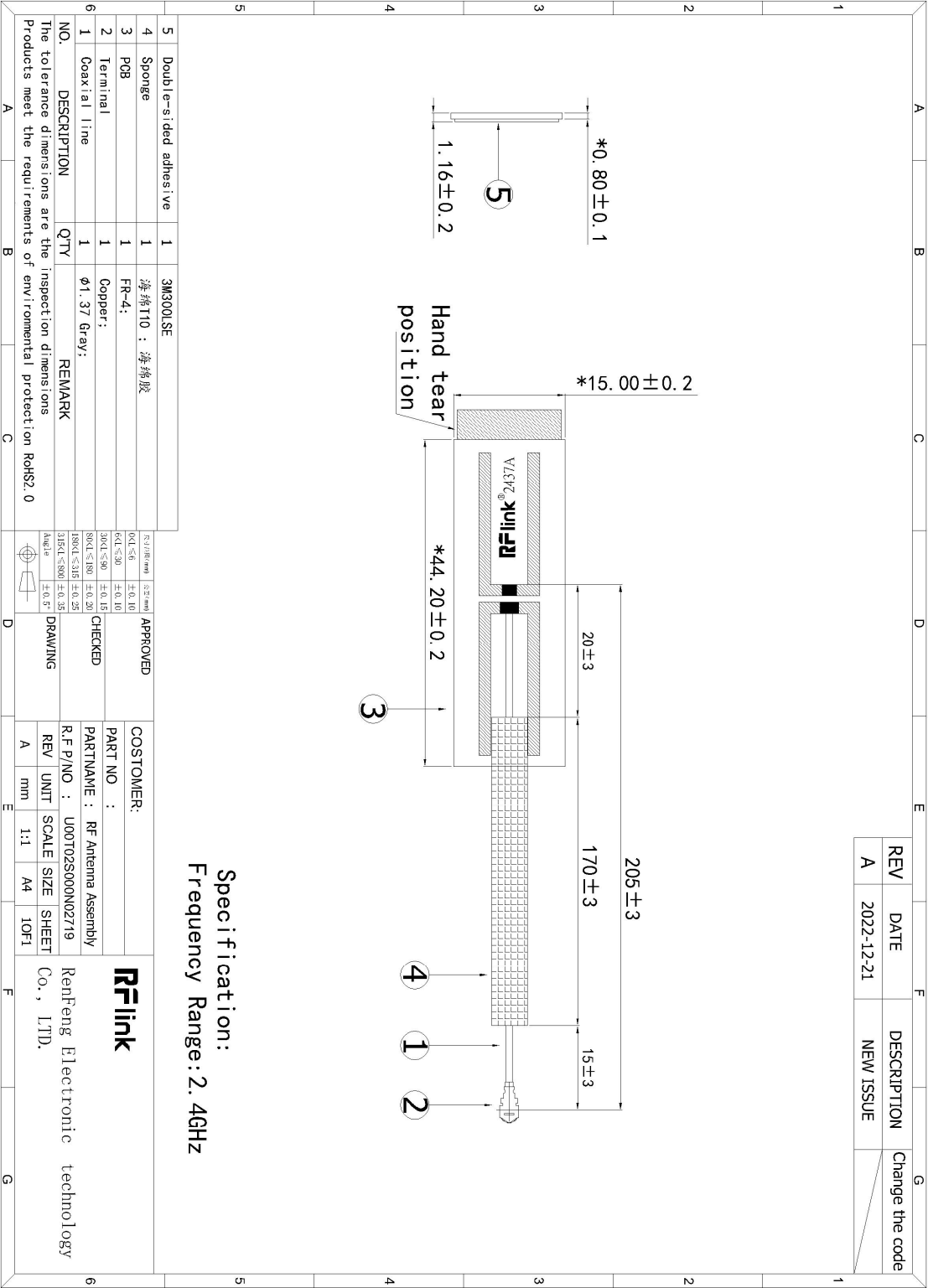
二、 Specification sheet:

Product main technical parameters

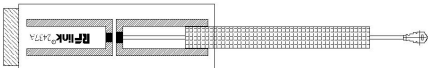
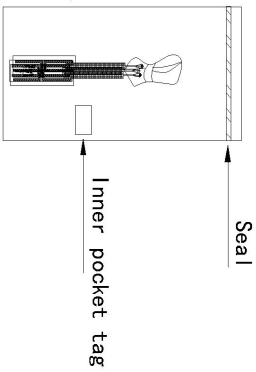
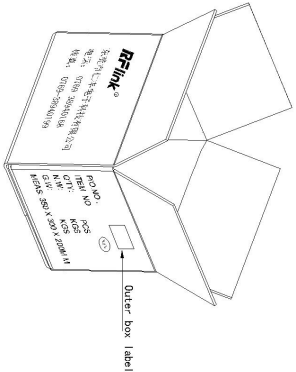
Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500	Frequency Range (MHZ)	2400-2500
Impedance(Ω)	50	Impedance(Ω)	50
Peak Gain(dBi)	2.04	Peak Gain(dBi)	2.04
VSWR	≤ 2.0	VSWR	≤ 2.0
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	Terminal	Connector Type	MHF Plug
Physical Properties		Physical Properties	
Antenna cover	PCB	Antenna cover	FR-4
Operating Temp	-20℃~+70℃	Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+70℃	Storage Temp	-20℃~+70℃

三、 Finished product drawing & packing drawing:

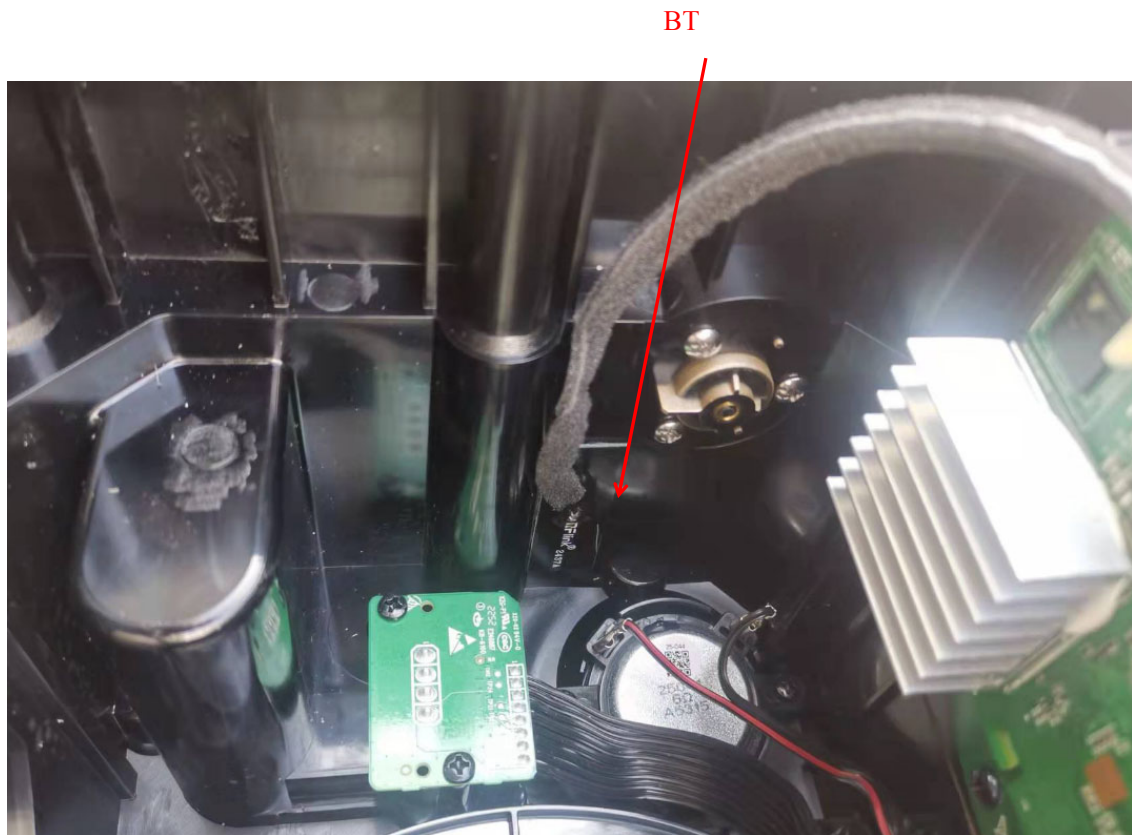
2. 1、 Antenna size diagram



2.2、Packing specification

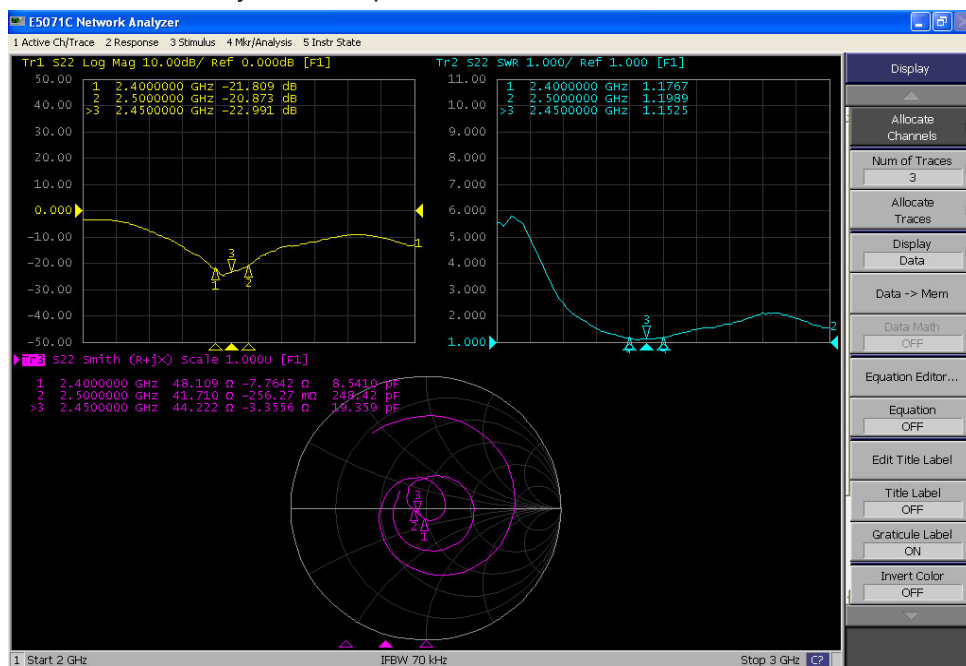
Product packaging				REV		DATE		DESCRIPTION		Change the code																																																																																																																																							
				A		2022-12-21		NEW ISSUE																																																																																																																																									
Individual product																																																																																																																																																	
Packing instructions of inner bag: 1. Each bag contains 100pcs of products. 2. Use a pearl-cotton bag or rubber band to fix the wire 3. Each bag should be labeled accordingly																																																																																																																																																	
Packing instructions of the outer box: 1. RoHS label and 1pc label should be affixed to the outer box. 2. Each box contains 40 bags /4000pcs of products.																																																																																																																																																	
尺寸范围 (mm) 公差 (mm) <table border="1"> <tr><td>0~1.50</td><td>±0.10</td></tr> <tr><td>1.51~3.00</td><td>±0.15</td></tr> <tr><td>3.01~4.50</td><td>±0.20</td></tr> <tr><td>4.51~6.00</td><td>±0.25</td></tr> <tr><td>6.01~7.50</td><td>±0.30</td></tr> <tr><td>7.51~9.00</td><td>±0.35</td></tr> <tr><td>9.01~10.50</td><td>±0.40</td></tr> <tr><td>10.51~12.00</td><td>±0.45</td></tr> <tr><td>12.01~13.50</td><td>±0.50</td></tr> <tr><td>13.51~15.00</td><td>±0.55</td></tr> <tr><td>15.01~16.50</td><td>±0.60</td></tr> <tr><td>16.51~18.00</td><td>±0.65</td></tr> <tr><td>18.01~19.50</td><td>±0.70</td></tr> <tr><td>19.51~21.00</td><td>±0.75</td></tr> <tr><td>21.01~22.50</td><td>±0.80</td></tr> <tr><td>22.51~24.00</td><td>±0.85</td></tr> <tr><td>24.01~25.50</td><td>±0.90</td></tr> <tr><td>25.51~27.00</td><td>±0.95</td></tr> <tr><td>27.01~28.50</td><td>±1.00</td></tr> <tr><td>28.51~30.00</td><td>±1.05</td></tr> <tr><td>30.01~31.50</td><td>±1.10</td></tr> <tr><td>31.51~33.00</td><td>±1.15</td></tr> <tr><td>33.01~34.50</td><td>±1.20</td></tr> <tr><td>34.51~36.00</td><td>±1.25</td></tr> <tr><td>36.01~37.50</td><td>±1.30</td></tr> <tr><td>37.51~39.00</td><td>±1.35</td></tr> <tr><td>39.01~40.50</td><td>±1.40</td></tr> <tr><td>40.51~42.00</td><td>±1.45</td></tr> <tr><td>42.01~43.50</td><td>±1.50</td></tr> <tr><td>43.51~45.00</td><td>±1.55</td></tr> <tr><td>45.01~46.50</td><td>±1.60</td></tr> <tr><td>46.51~48.00</td><td>±1.65</td></tr> <tr><td>48.01~49.50</td><td>±1.70</td></tr> <tr><td>49.51~51.00</td><td>±1.75</td></tr> <tr><td>51.01~52.50</td><td>±1.80</td></tr> <tr><td>52.51~54.00</td><td>±1.85</td></tr> <tr><td>54.01~55.50</td><td>±1.90</td></tr> <tr><td>55.51~57.00</td><td>±1.95</td></tr> <tr><td>57.01~58.50</td><td>±2.00</td></tr> <tr><td>58.51~60.00</td><td>±2.05</td></tr> <tr><td>60.01~61.50</td><td>±2.10</td></tr> <tr><td>61.51~63.00</td><td>±2.15</td></tr> <tr><td>63.01~64.50</td><td>±2.20</td></tr> <tr><td>64.51~66.00</td><td>±2.25</td></tr> <tr><td>66.01~67.50</td><td>±2.30</td></tr> <tr><td>67.51~69.00</td><td>±2.35</td></tr> <tr><td>69.01~70.50</td><td>±2.40</td></tr> <tr><td>70.51~72.00</td><td>±2.45</td></tr> <tr><td>72.01~73.50</td><td>±2.50</td></tr> <tr><td>73.51~75.00</td><td>±2.55</td></tr> <tr><td>75.01~76.50</td><td>±2.60</td></tr> <tr><td>76.51~78.00</td><td>±2.65</td></tr> <tr><td>78.01~79.50</td><td>±2.70</td></tr> <tr><td>79.51~81.00</td><td>±2.75</td></tr> <tr><td>81.01~82.50</td><td>±2.80</td></tr> <tr><td>82.51~84.00</td><td>±2.85</td></tr> <tr><td>84.01~85.50</td><td>±2.90</td></tr> <tr><td>85.51~87.00</td><td>±2.95</td></tr> <tr><td>87.01~88.50</td><td>±3.00</td></tr> <tr><td>88.51~90.00</td><td>±3.05</td></tr> <tr><td>90.01~91.50</td><td>±3.10</td></tr> <tr><td>91.51~93.00</td><td>±3.15</td></tr> <tr><td>93.01~94.50</td><td>±3.20</td></tr> <tr><td>94.51~96.00</td><td>±3.25</td></tr> <tr><td>96.01~97.50</td><td>±3.30</td></tr> <tr><td>97.51~99.00</td><td>±3.35</td></tr> <tr><td>99.01~100.50</td><td>±3.40</td></tr> </table> APPROVED CHECKED DRAWING CUSTOMER: PART NO. : PARTNAME : R.F P/NO. : U00T02S000N02719 REV UNIT SCALE SIZE SHEET IOF1 RF link RenFeng Electronic technology Co., LTD.				0~1.50	±0.10	1.51~3.00	±0.15	3.01~4.50	±0.20	4.51~6.00	±0.25	6.01~7.50	±0.30	7.51~9.00	±0.35	9.01~10.50	±0.40	10.51~12.00	±0.45	12.01~13.50	±0.50	13.51~15.00	±0.55	15.01~16.50	±0.60	16.51~18.00	±0.65	18.01~19.50	±0.70	19.51~21.00	±0.75	21.01~22.50	±0.80	22.51~24.00	±0.85	24.01~25.50	±0.90	25.51~27.00	±0.95	27.01~28.50	±1.00	28.51~30.00	±1.05	30.01~31.50	±1.10	31.51~33.00	±1.15	33.01~34.50	±1.20	34.51~36.00	±1.25	36.01~37.50	±1.30	37.51~39.00	±1.35	39.01~40.50	±1.40	40.51~42.00	±1.45	42.01~43.50	±1.50	43.51~45.00	±1.55	45.01~46.50	±1.60	46.51~48.00	±1.65	48.01~49.50	±1.70	49.51~51.00	±1.75	51.01~52.50	±1.80	52.51~54.00	±1.85	54.01~55.50	±1.90	55.51~57.00	±1.95	57.01~58.50	±2.00	58.51~60.00	±2.05	60.01~61.50	±2.10	61.51~63.00	±2.15	63.01~64.50	±2.20	64.51~66.00	±2.25	66.01~67.50	±2.30	67.51~69.00	±2.35	69.01~70.50	±2.40	70.51~72.00	±2.45	72.01~73.50	±2.50	73.51~75.00	±2.55	75.01~76.50	±2.60	76.51~78.00	±2.65	78.01~79.50	±2.70	79.51~81.00	±2.75	81.01~82.50	±2.80	82.51~84.00	±2.85	84.01~85.50	±2.90	85.51~87.00	±2.95	87.01~88.50	±3.00	88.51~90.00	±3.05	90.01~91.50	±3.10	91.51~93.00	±3.15	93.01~94.50	±3.20	94.51~96.00	±3.25	96.01~97.50	±3.30	97.51~99.00	±3.35	99.01~100.50	±3.40	Outer box packing Inner bag packing PE bag Seal Inner pocket tag Outer box label							
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四、Antenna assembly position:

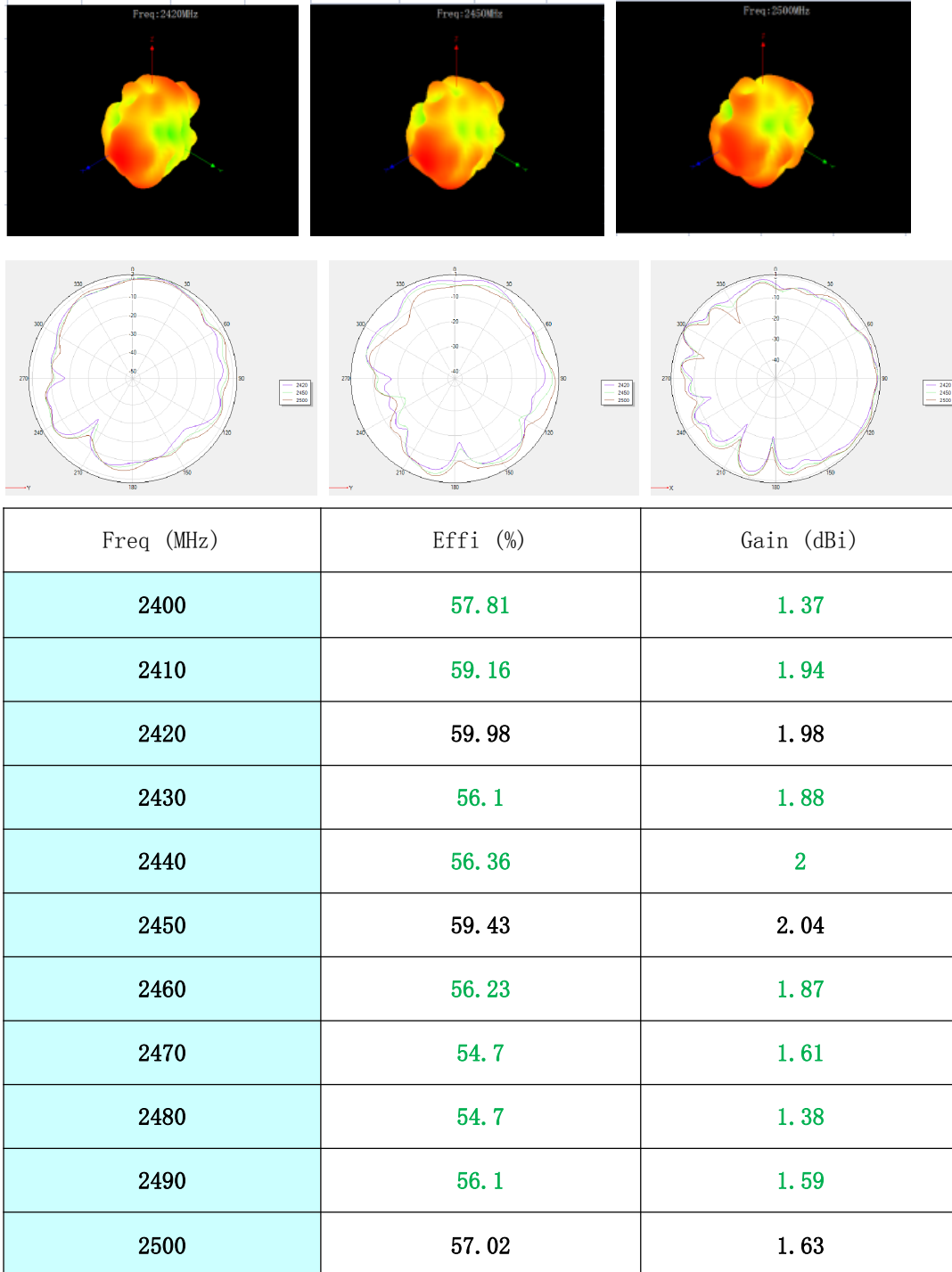


五、Test report

5.1: Network analyzer test report



5.2: Efficiency and gain



六、ROHS/ Raw material list:

Meet RoHS requirements。

Serial number	Name	Material	QTY	Unit	Supplier	UL certification number
1	PCB	FR-4	1	pc	Junyi	/
2	1.37 Coaxial line	Tinning/FEP	1	pc	China Ocean Unicom	/
3	Terminal	Phosphor bronze	1	pc	Kexincheng	/
4	Linear sponge	Sponge T10	1	pc	Pengsheng	/
5	Double-sided adhesive	3M300LSE	1	pc	Pengsheng	/