



RF Test Data

For

Product Name:	Remote Controlled Aircraft
Applicant:	CHIAKI SHOBOU CO., LTD.
Manufacturer:	Shantou Skynor Technologies Co., Ltd.
Model:	SQN-032
Test Engineer:	Zhan
Test Date:	2025-08-18
Report Number:	25CST070127M01

Test Summary

Item	Result
Frequency Error	Pass
Occupied Bandwidth	Pass
Spread Bandwidth	Pass
Antenna Power	Pass
Spurious Emission Intensity	Pass
Secondary Radiated Emission	Pass



1. Frequency Error

1.1 Test Result

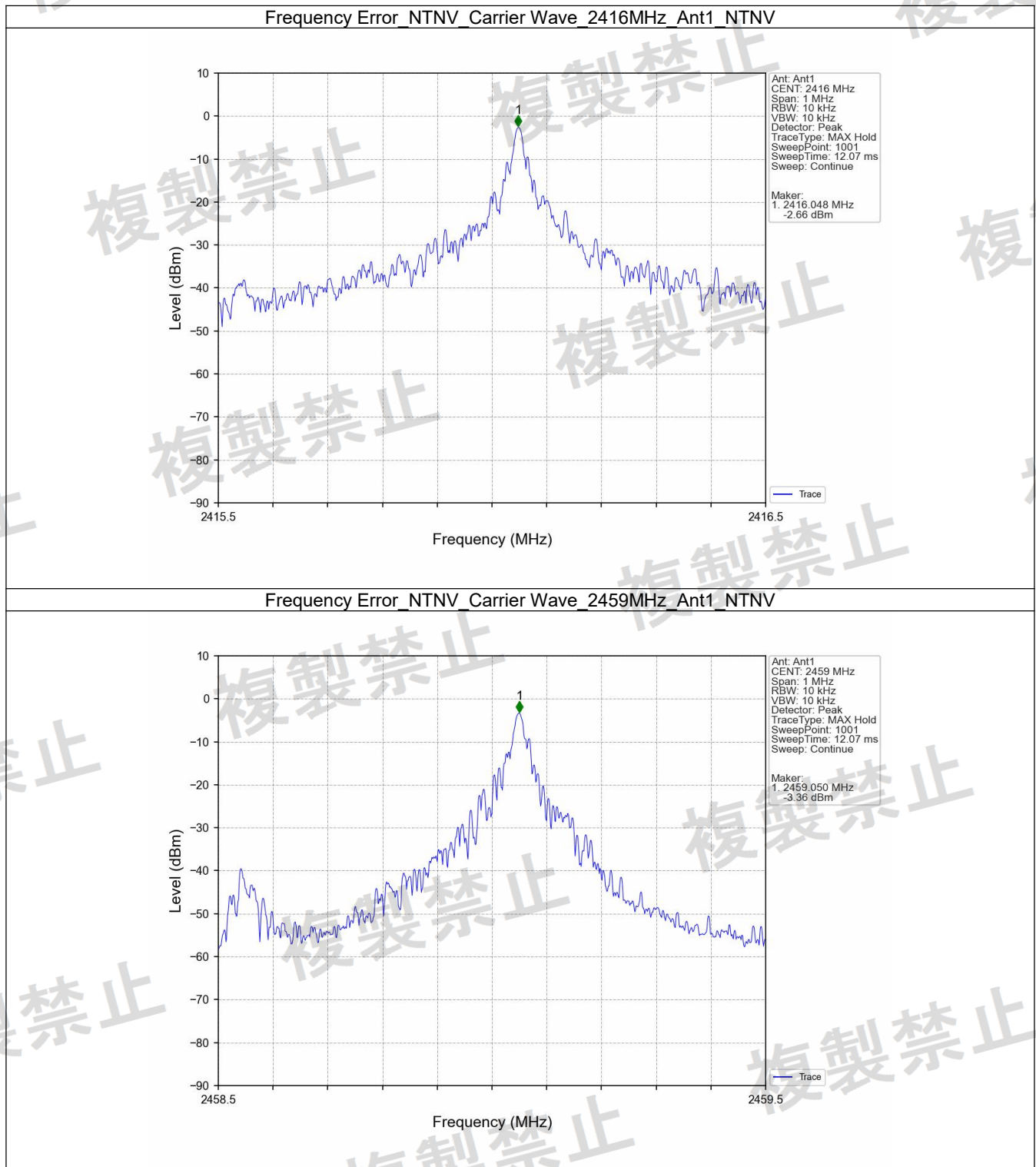
1.1.1 Ant1

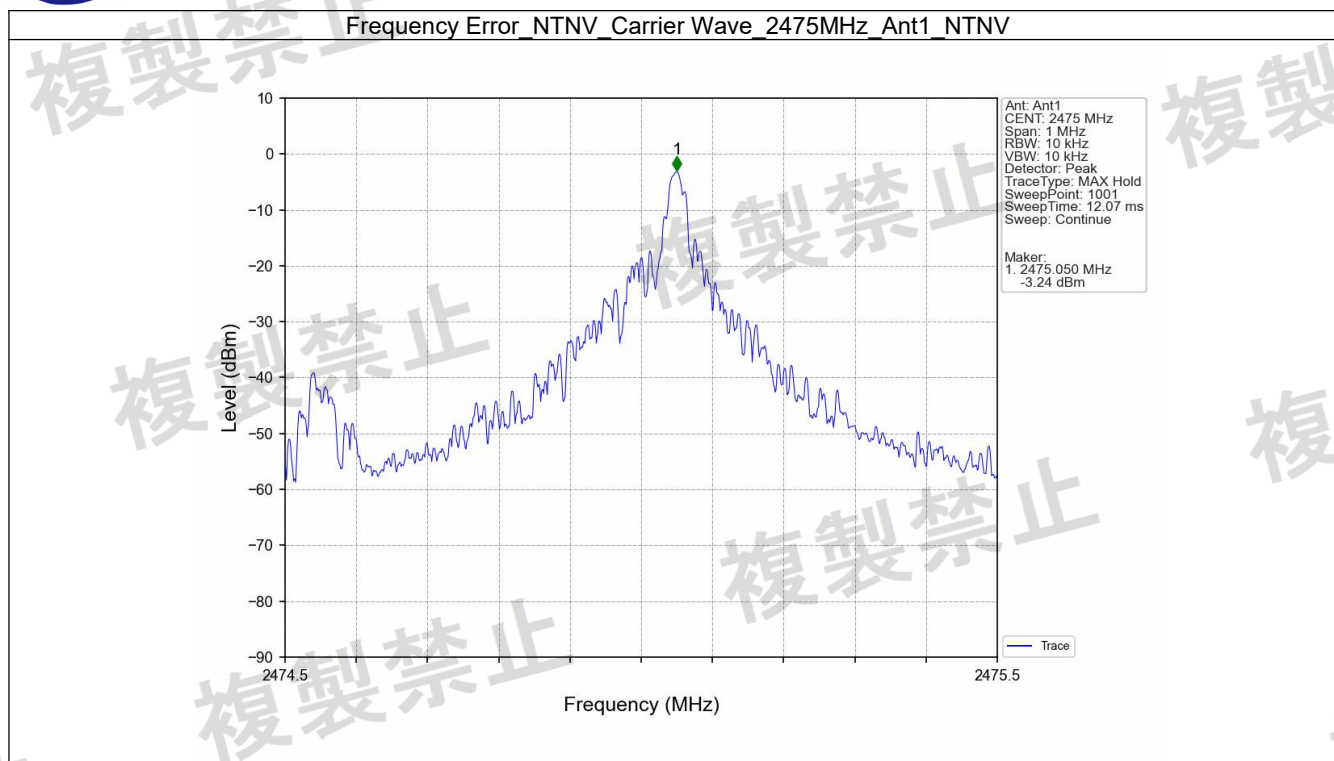
ENV	Mode	TX Type	Frequency (MHz)	Ant1		Verdict
				Measured Frequency (MHz)	Tolerance (ppm) Result Limit	
NTNV	Carrier Wave	SISO	2416	2416.048	19.87 ±50ppm	Pass
			2459	2459.050	20.33 ±50ppm	Pass
			2475	2475.050	20.20 ±50ppm	Pass



1.2 Test Graph

1.2.1 Ant1







2. Occupied Bandwidth

2.1 Test Result

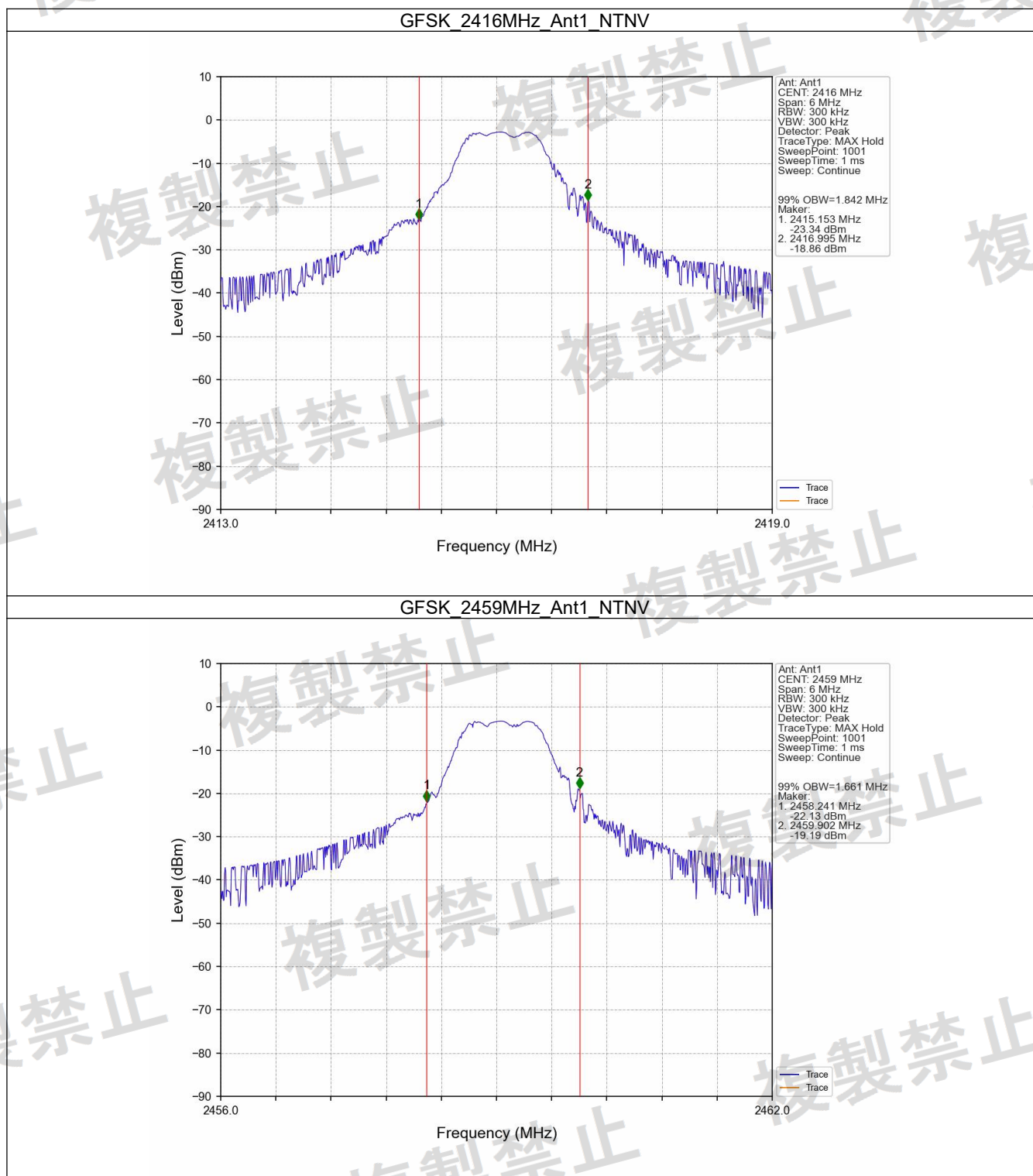
2.1.1 OBW

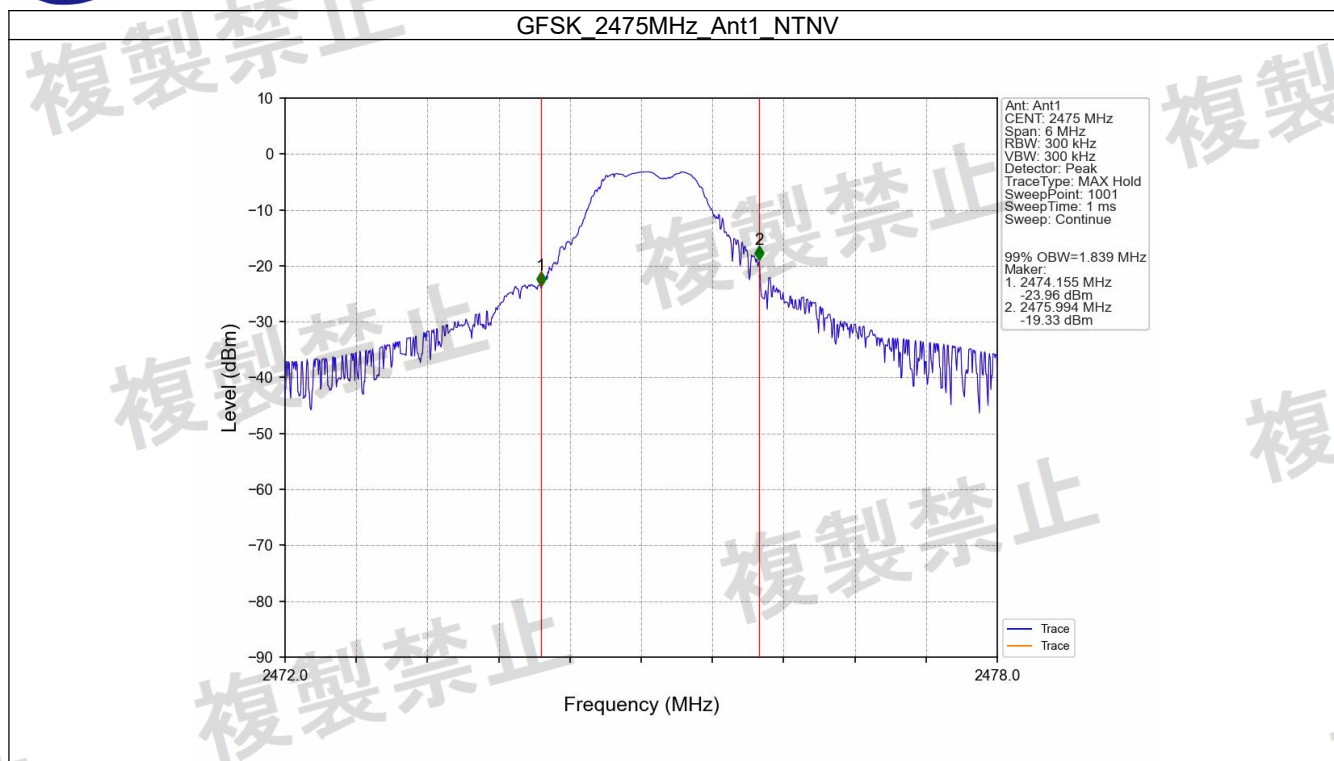
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	GFSK	SISO	2416	1.842	≤ 26	Pass
			2459	1.661	≤ 26	Pass
			2475	1.839	≤ 26	Pass



2.2 Test Graph

2.2.1 OBW







3. Spread Bandwidth

3.1 Test Result

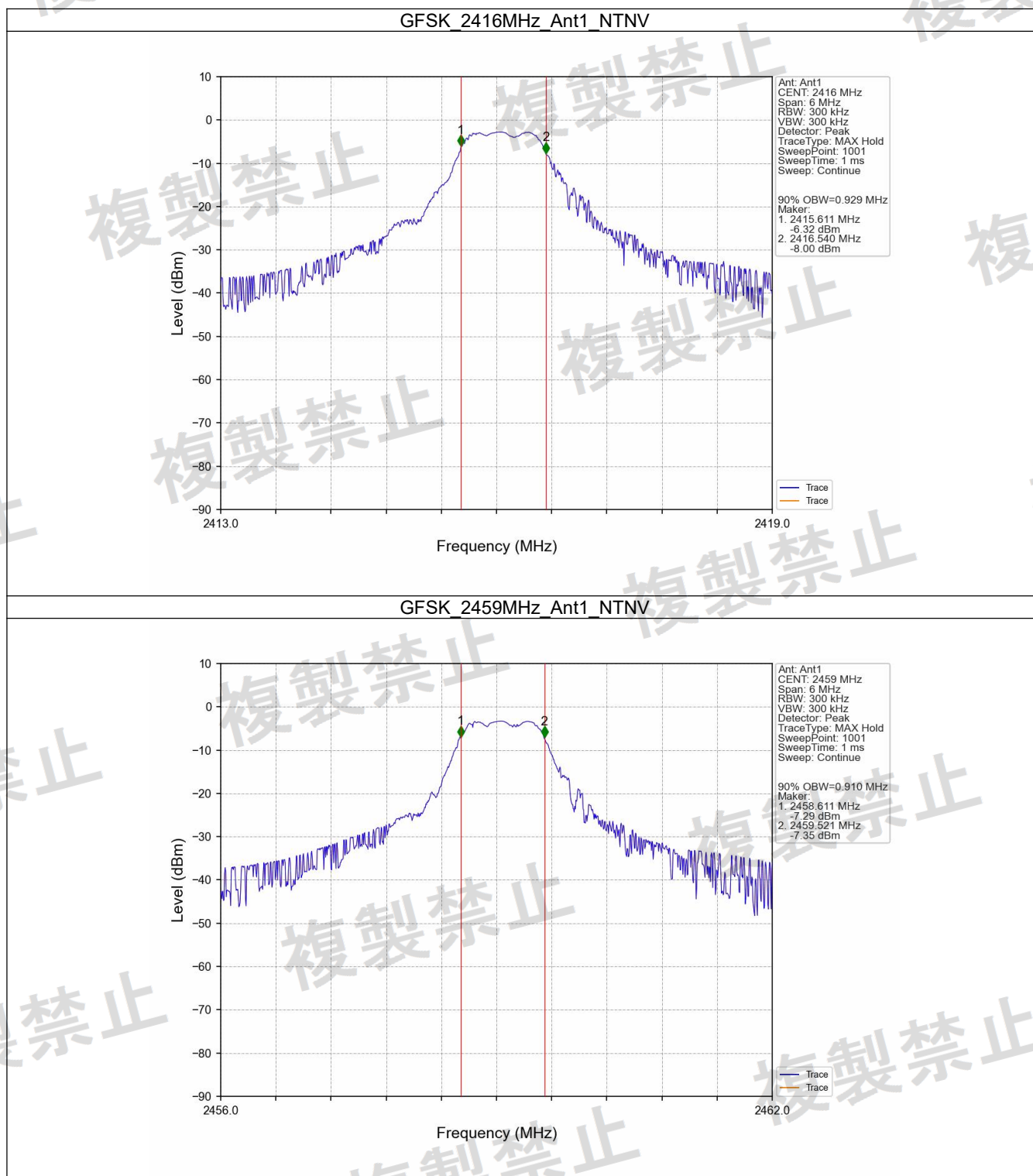
3.1.1 SPBW

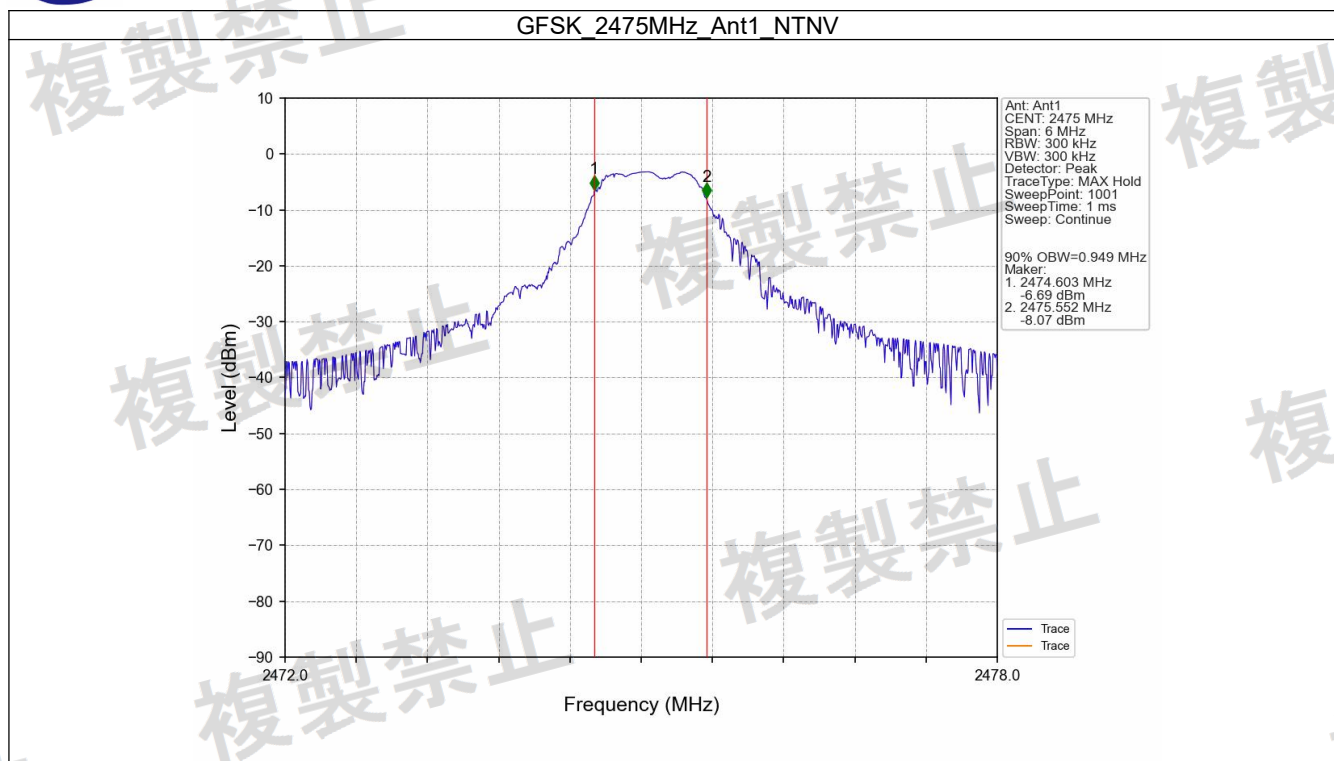
ENV	Mode	TX Type	Frequency (MHz)	Spread Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	GFSK	SISO	2416	0.929	≥ 0.5	Pass
			2459	0.910	≥ 0.5	Pass
			2475	0.949	≥ 0.5	Pass



3.2 Test Graph

3.2.1 SPBW







4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	2416	1	0.424	≤ 10.00	0.420	0.95	20	Pass
			2459	1	0.365	≤ 10.00	0.420	-13.10	20	Pass
			2475	1	0.422	≤ 10.00	0.420	0.48	20	Pass

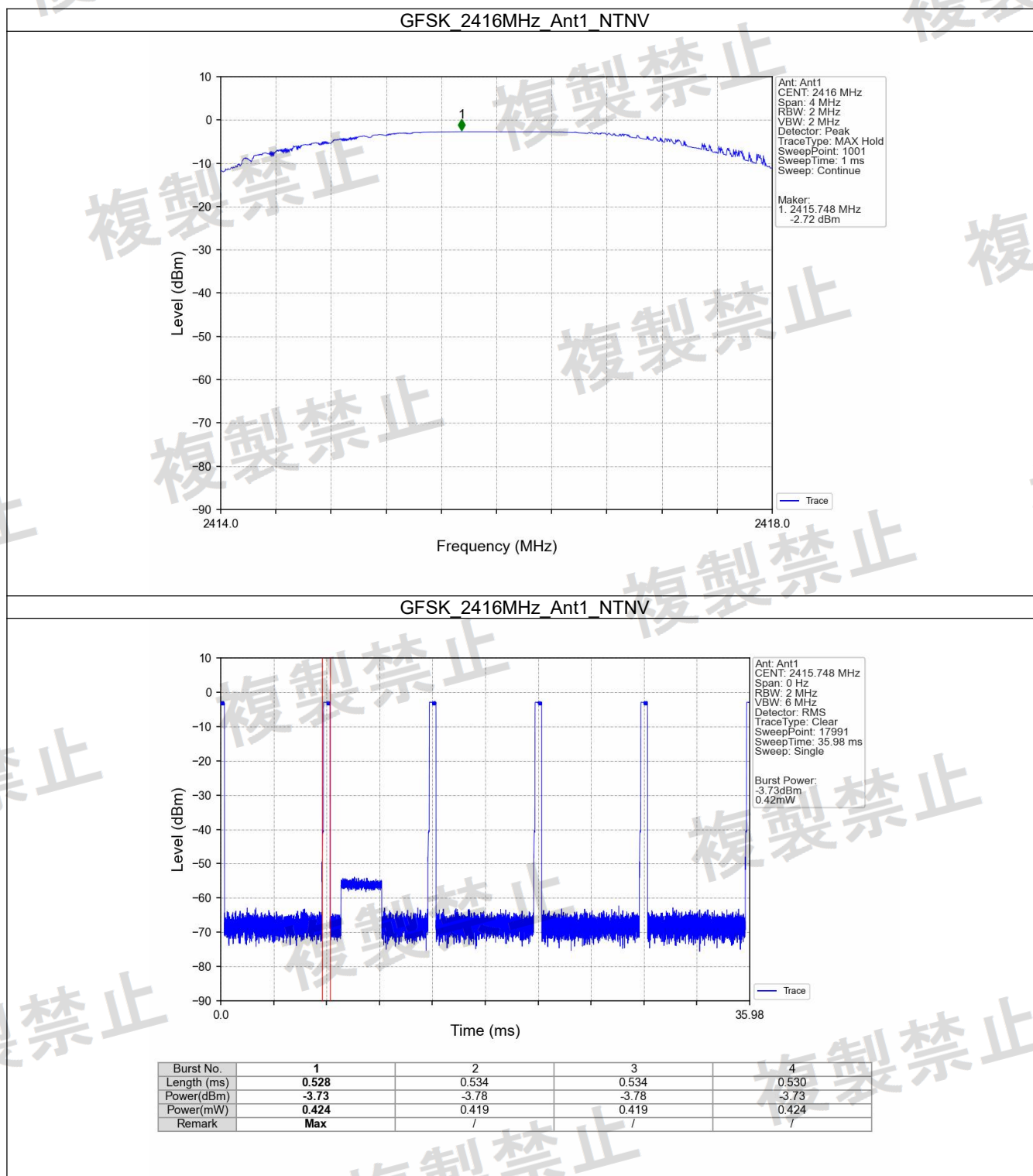
4.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (dBm/MHz)		Verdict
						Result	Limit	
NTNV	GFSK	SISO	2416	1	0.59	-3.13	≤ 12.14	Pass
			2459	1	0.59	-3.79	≤ 12.14	Pass
			2475	1	0.59	-3.16	≤ 12.14	Pass



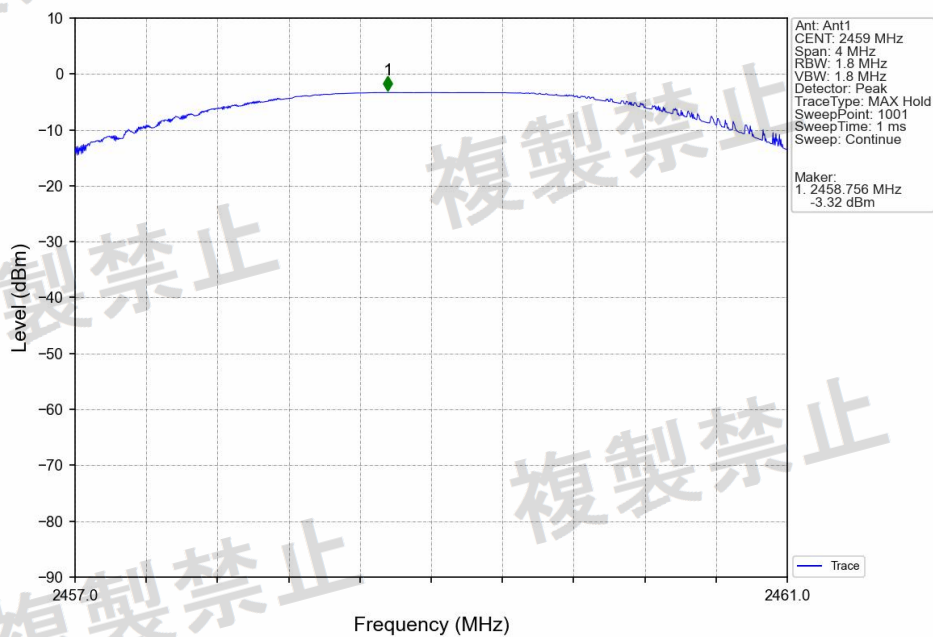
4.2 Test Graph

4.2.1 Power

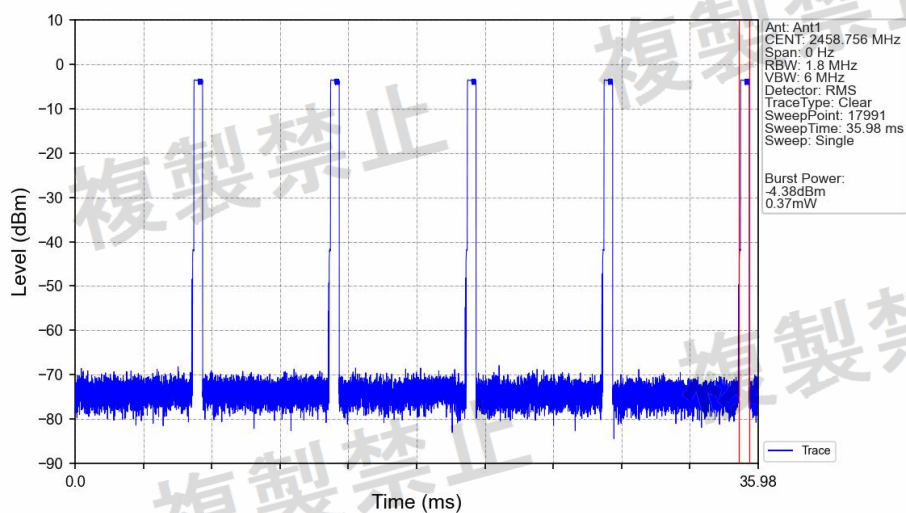




GFSK_2459MHz_Ant1_NTNV



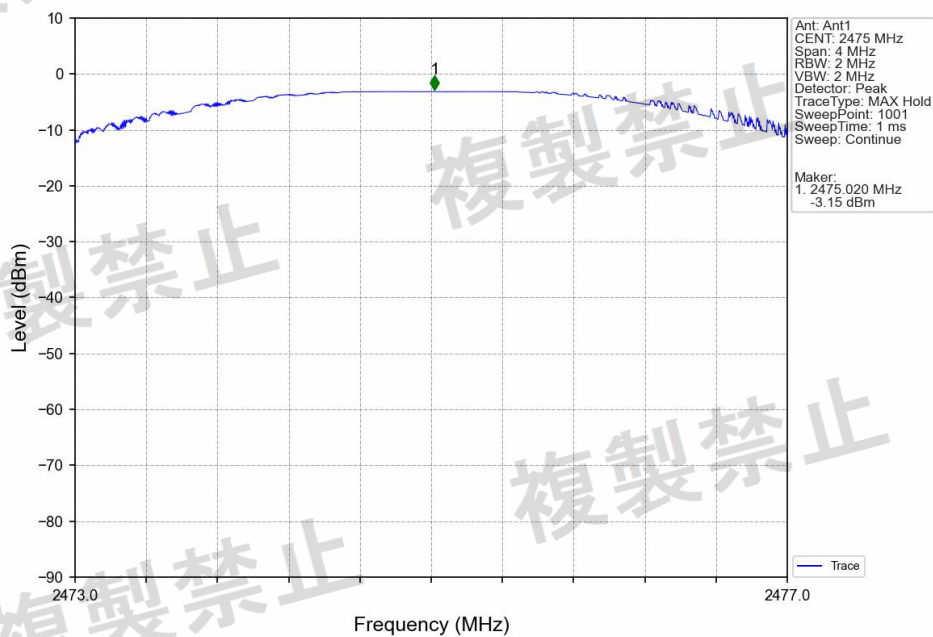
GFSK_2459MHz_Ant1_NTNV



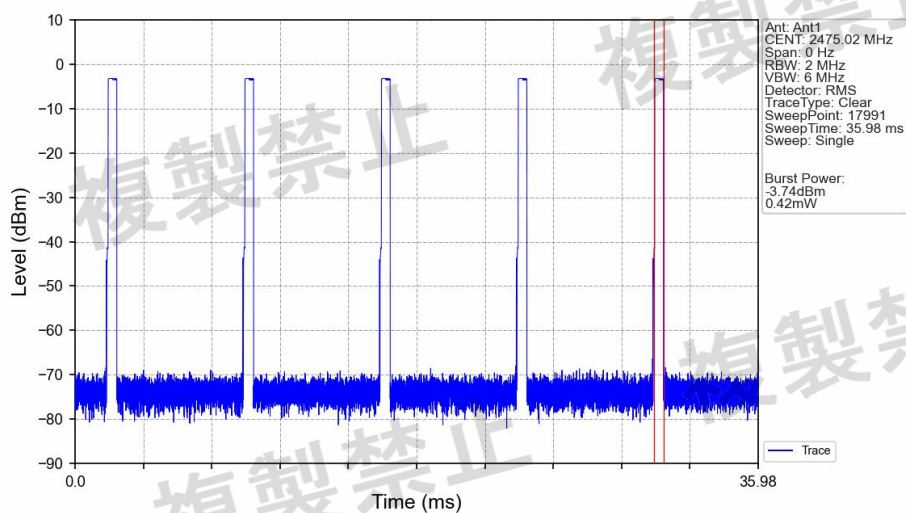
Burst No.	1	2	3	4	5
Length (ms)	0.528	0.528	0.530	0.528	0.528
Power(dBm)	-4.38	-4.40	-4.40	-4.38	-4.38
Power(mW)	0.365	0.363	0.363	0.365	0.365
Remark	/	/	/	/	Max



GFSK_2475MHz_Ant1_NTNV



GFSK_2475MHz_Ant1_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.506	0.508	0.504	0.508	0.504
Power(dBm)	-3.76	-3.78	-3.75	-3.79	-3.74
Power(mW)	0.421	0.418	0.421	0.418	0.422
Remark	/	/	/	/	Max



5. Spurious Emission Intensity

5.1 Test Result

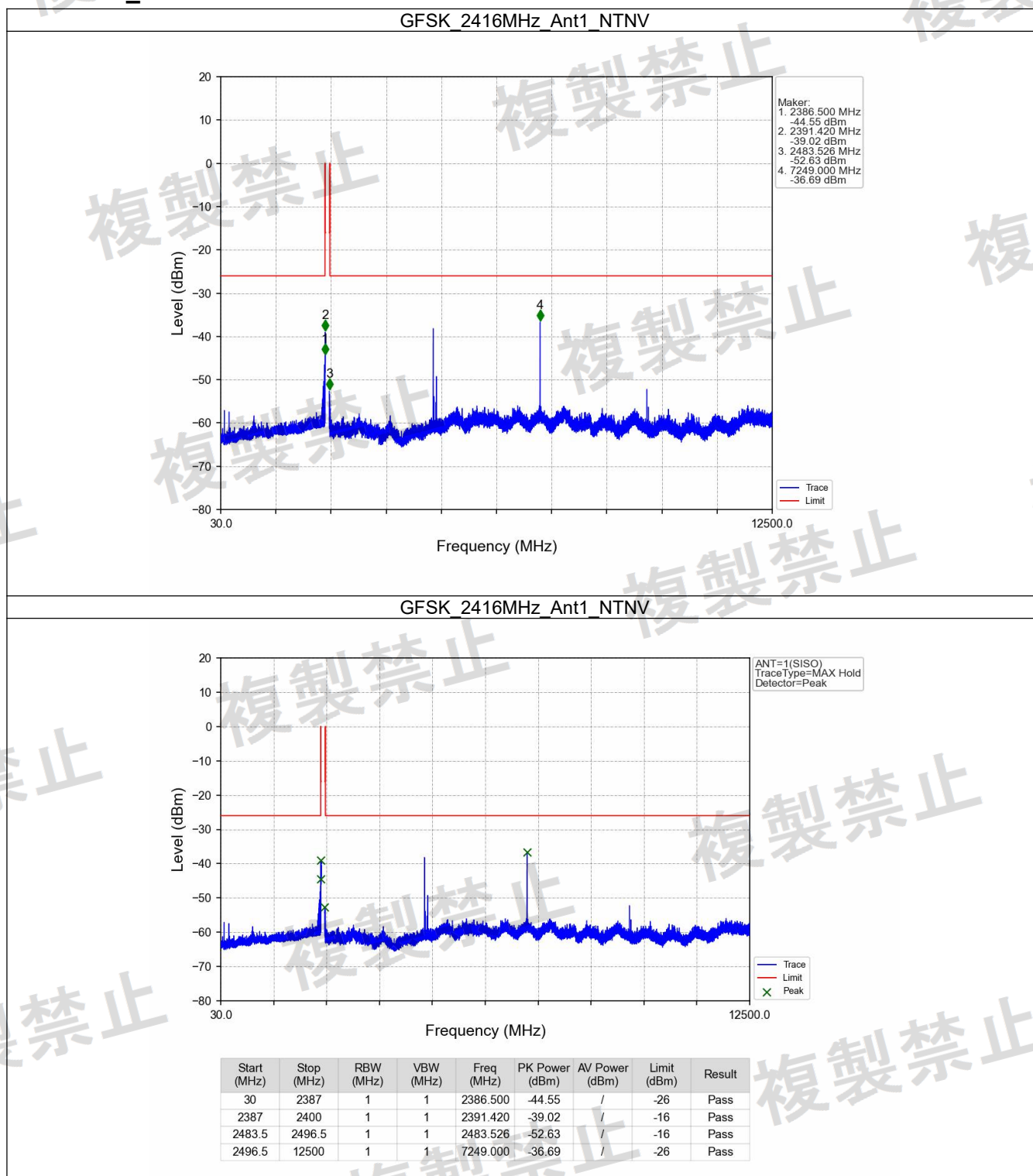
5.1.1 TxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker				Limit (uW /MHz)	Verdict	
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)			AV Power (uW /MHz)
GFSK	SISO	2416	1	30	2387	2386.5	-44.55	0.035	/	/	2.5	Pass
				2387	2400	2391.42	-39.02	0.125	/	/	25	Pass
				2483.5	2496.5	2483.526	-52.63	0.005	/	/	25	Pass
				2496.5	12500	7249	-36.69	0.214	/	/	2.5	Pass
		2459	1	30	2387	2380	-57.00	0.002	/	/	2.5	Pass
				2387	2400	2391.368	-39.56	0.111	/	/	25	Pass
				2483.5	2496.5	2491.339	-40.94	0.081	/	/	25	Pass
				2496.5	12500	4918.5	-36.14	0.243	/	/	2.5	Pass
		2475	1	30	2387	2382	-57.33	0.002	/	/	2.5	Pass
				2387	2400	2399.688	-54.22	0.004	/	/	25	Pass
				2483.5	2496.5	2483.513	-35.17	0.304	/	/	25	Pass
				2496.5	12500	4950	-36.65	0.216	/	/	2.5	Pass



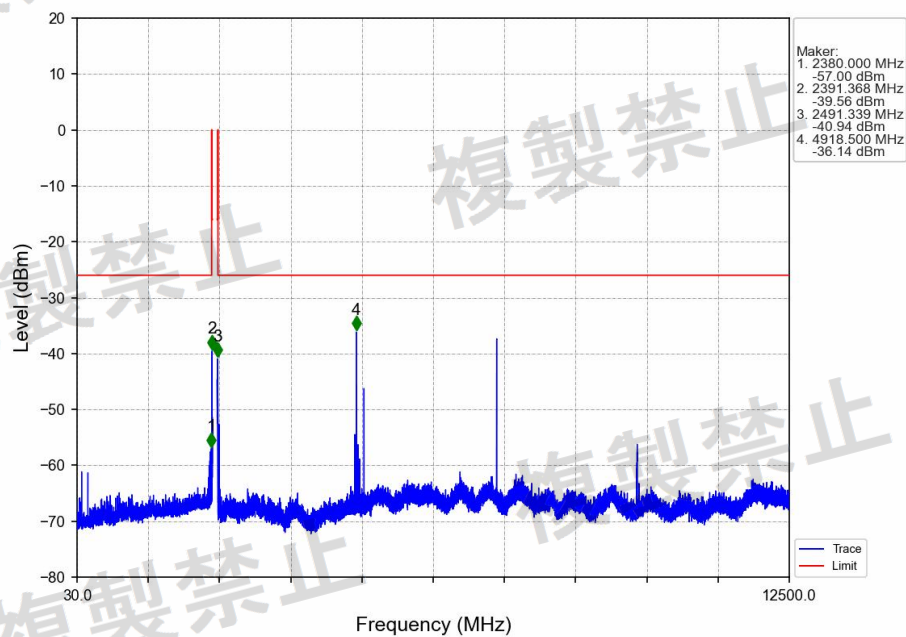
5.2 Test Graph

5.2.1 TxSe_NTNV

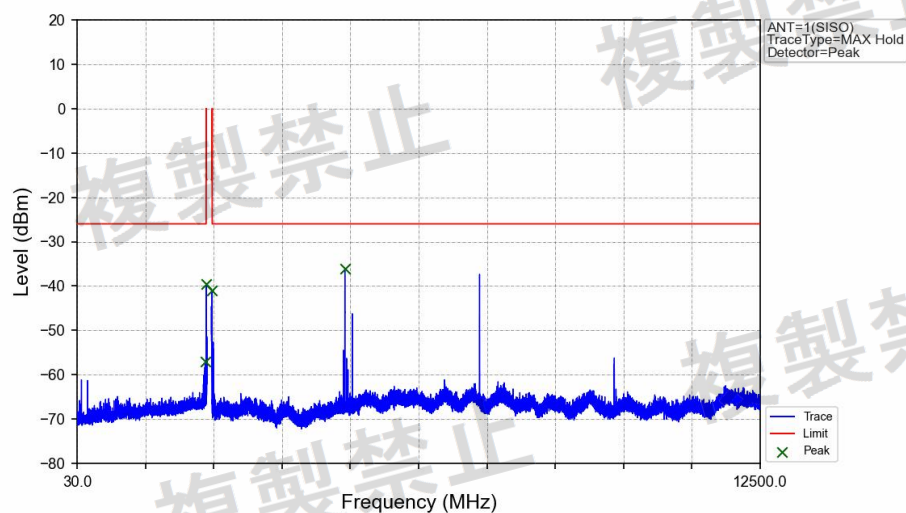




GFSK_2459MHz_Ant1_NTNV



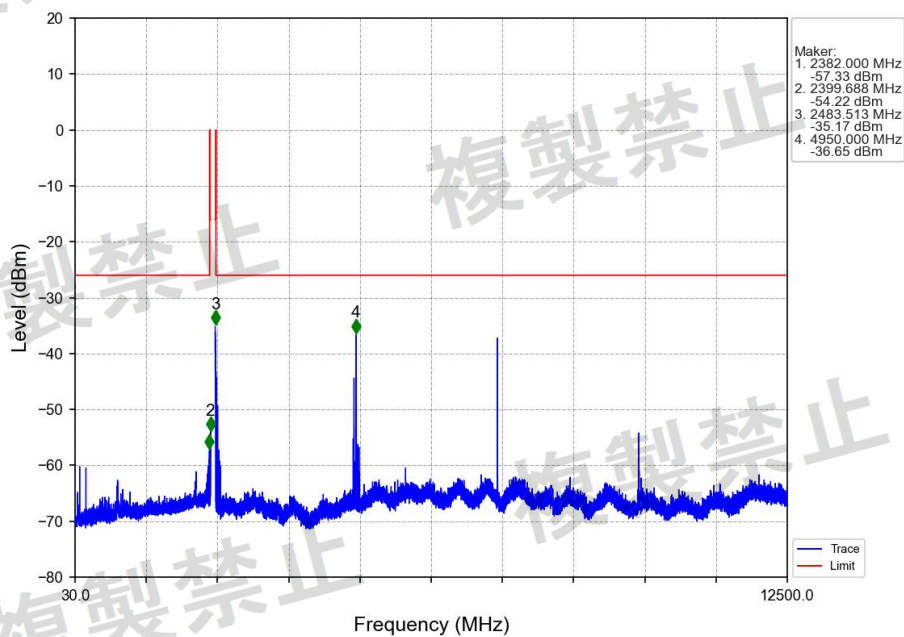
GFSK_2459MHz_Ant1_NTNV



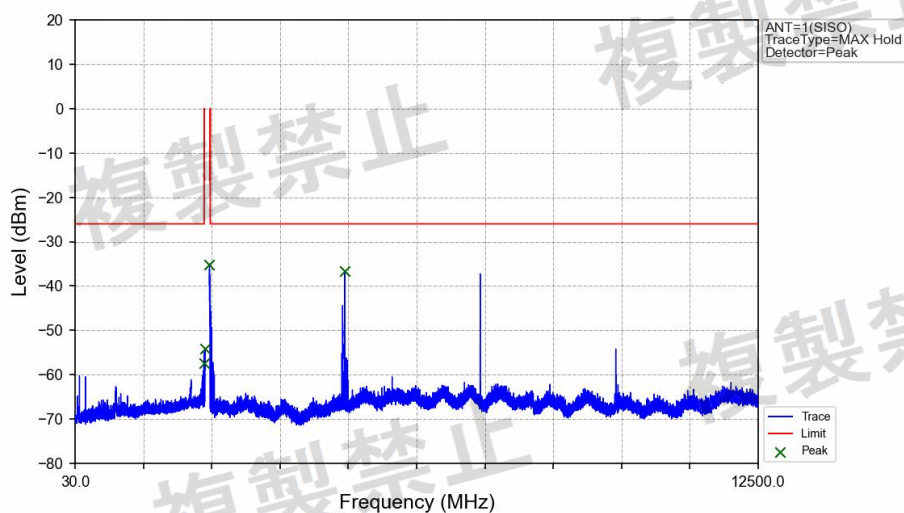
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2380.000	-57.00	/	-26	Pass
2387	2400	1	1	2391.368	-39.56	/	-16	Pass
2483.5	2496.5	1	1	2491.339	-40.94	/	-16	Pass
2496.5	12500	1	1	4918.500	-36.14	/	-26	Pass



GFSK_2475MHz_Ant1_NTNV



GFSK_2475MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2382.000	-57.33	/	-26	Pass
2387	2400	1	1	2399.688	-54.22	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-35.17	/	-16	Pass
2496.5	12500	1	1	4950.000	-36.65	/	-26	Pass



6. Secondary Radiated Emission

6.1 Test Result

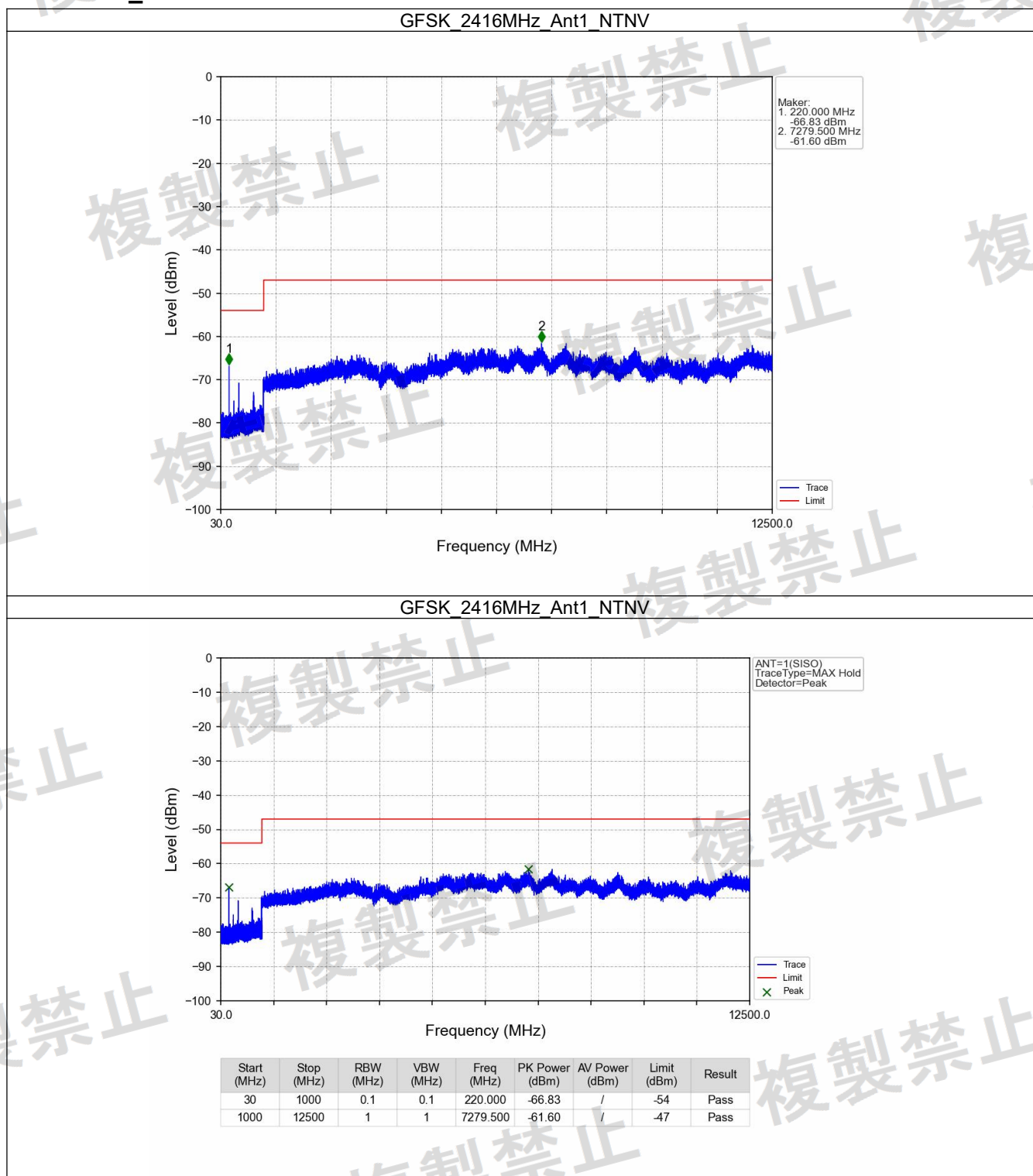
6.1.1 RxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2416	1	30	1000	220	-66.83	0.207	/	/	4	Pass
				1000	12500	7279.5	-61.60	0.692	/	/	20	Pass
		2459	1	30	1000	220	-66.62	0.218	/	/	4	Pass
				1000	12500	7828	-61.74	0.670	/	/	20	Pass
		2475	1	30	1000	220	-66.57	0.220	/	/	4	Pass
				1000	12500	7250	-61.15	0.767	/	/	20	Pass



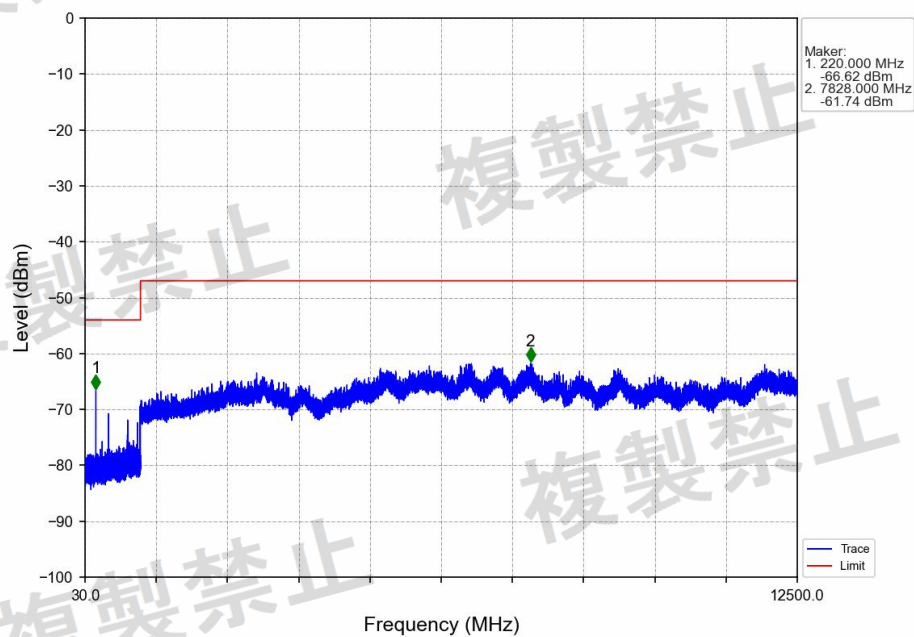
6.2 Test Graph

6.2.1 RxSe_NTNV

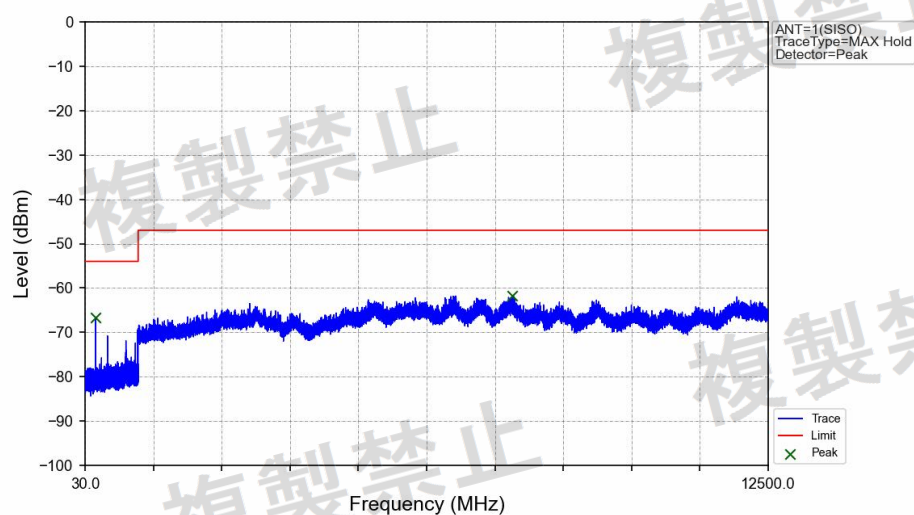




GFSK_2459MHz_Ant1_NTNV



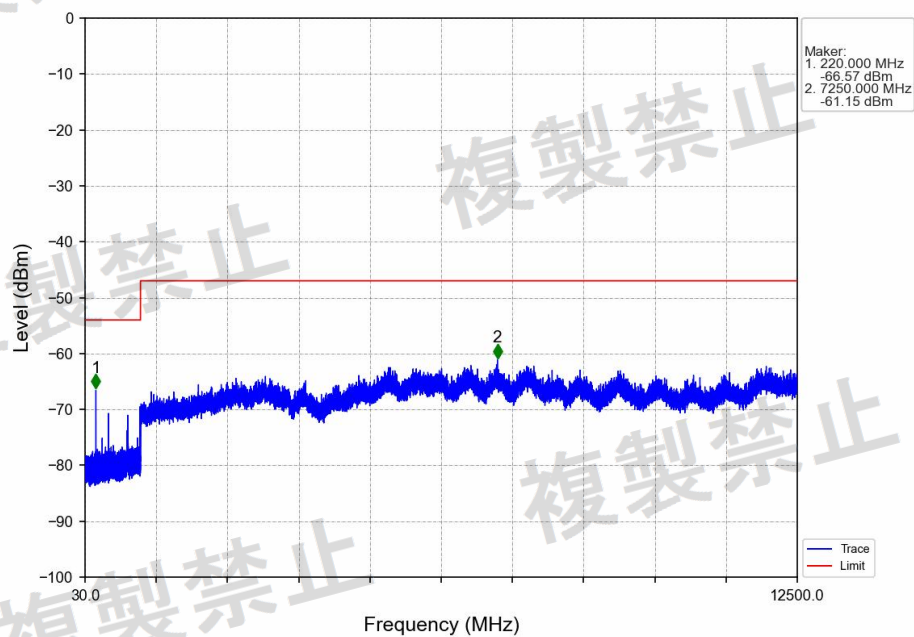
GFSK_2459MHz_Ant1_NTNV



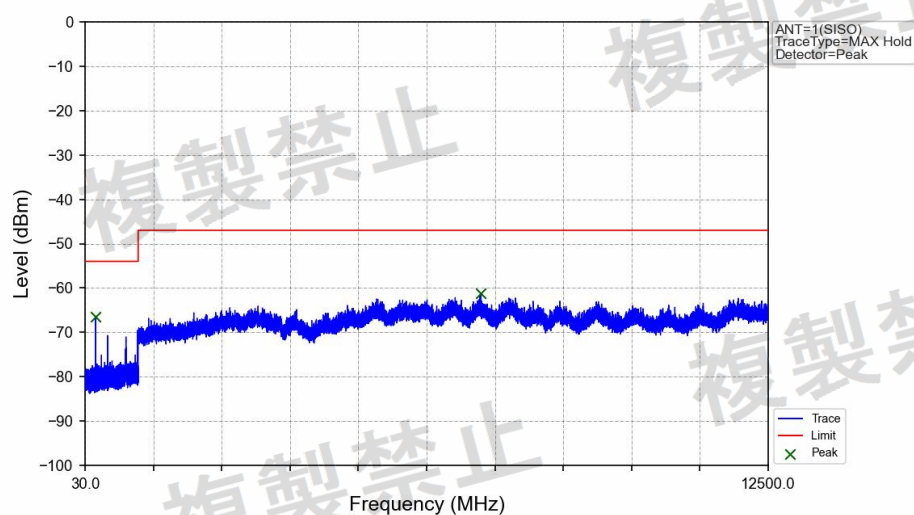
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	220.000	-66.62	/	-54	Pass
1000	12500	1	1	7828.000	-61.74	/	-47	Pass



GFSK_2475MHz_Ant1_NTNV



GFSK_2475MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	220.000	-66.57	/	-54	Pass
1000	12500	1	1	7250.000	-61.15	/	-47	Pass