Appendix B for BT LE Test Data

Product Name: Digital Wireless Stereo Headphones

Test Model: RB-C10L

Environmental Conditions

Temperature:	23.4°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

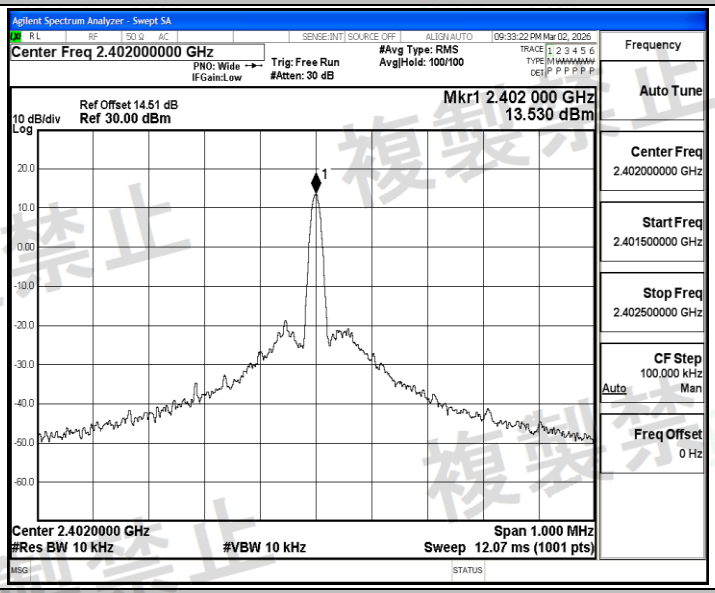
B.1 Frequency Error

Test Result

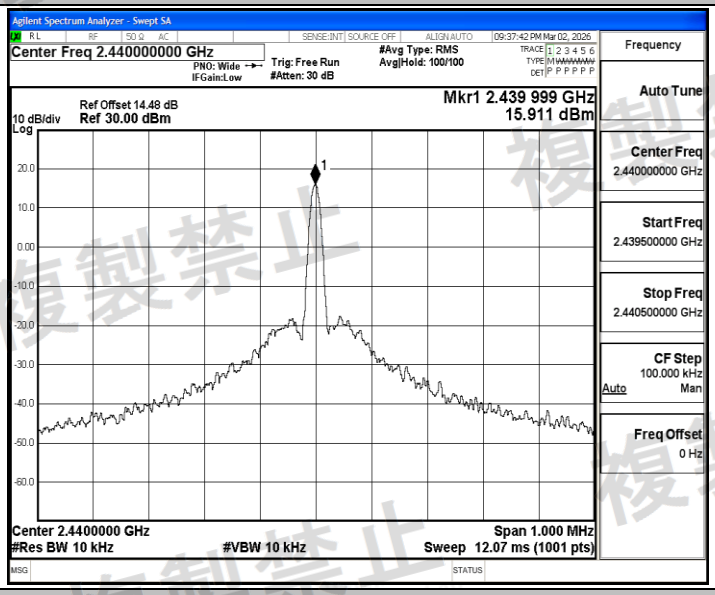
TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	0.00000	±50	PASS
			2440	-0.40984	±50	PASS
			2480	-0.80645	±50	PASS

Test Graphs

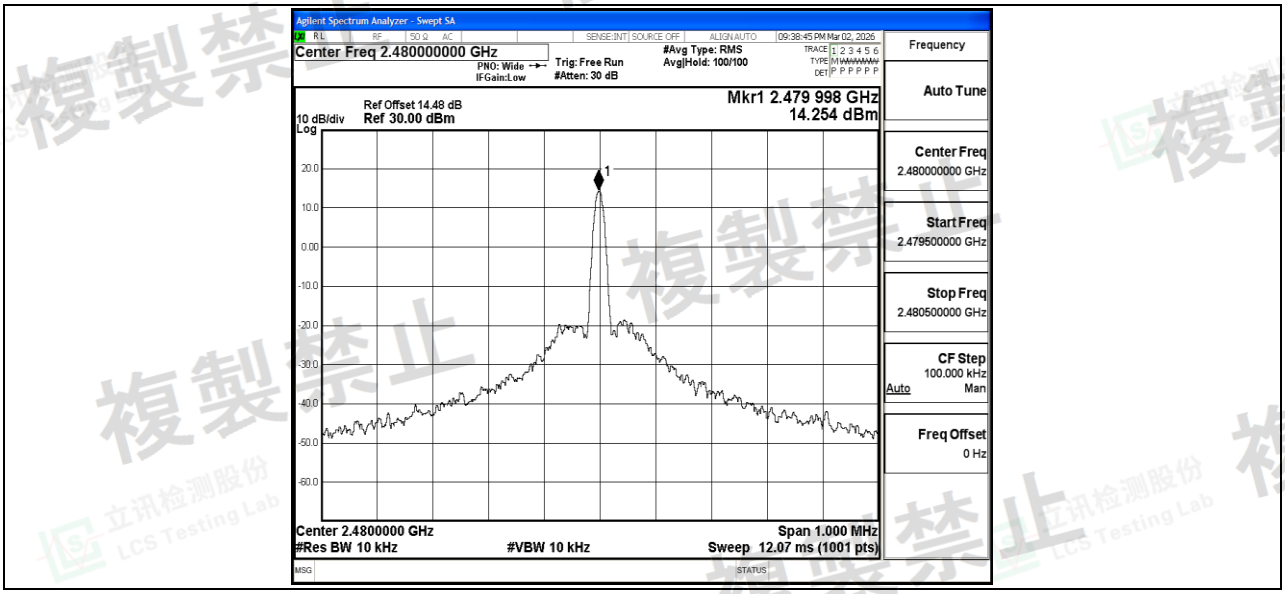
NTNV_ Ant1_2402



NTNV_ Ant1_2440



NTNV_ Ant1_2480


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
09:38:45 PM Mar 02, 2026
Frequency
Auto Tune
Ref Offset 14.48 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 2.479 998 GHz
14.254 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.480000000 GHz
Start Freq
2.479500000 GHz
Stop Freq
2.480500000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Center 2.4800000 GHz
#Res BW 10 kHz
#VBW 10 kHz
Span 1.000 MHz
Sweep 12.07 ms (1001 pts)
MSG
STATUS

B.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	7.10	5.1286	≤10	PASS
			2440	7.52	5.6494	≤10	PASS
			2480	6.87	4.8641	≤10	PASS
NTNV	BLE_2M	Ant1	2402	7.05	5.0699	≤10	PASS
			2440	6.58	4.5499	≤10	PASS
			2480	7.03	5.0466	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	5.1286	5.0	2.57	+20	PASS
			2440	5.6494	5.0	12.99	+20	PASS
			2480	4.8641	5.0	-2.72	+20	PASS
NTNV	BLE_2M	Ant1	2402	5.0699	5.0	1.40	+20	PASS
			2440	4.5499	5.0	-9.00	+20	PASS
			2480	5.0466	5.0	0.93	+20	PASS

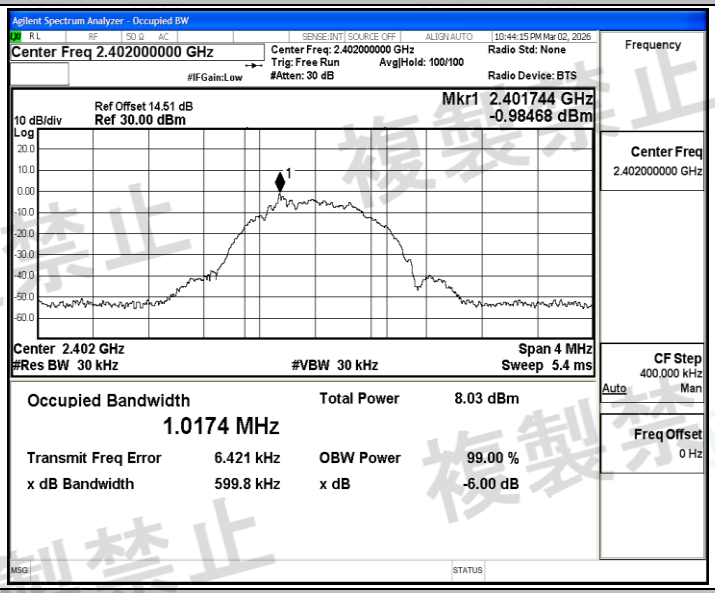
B.3 Occupied Bandwidth

Test Result

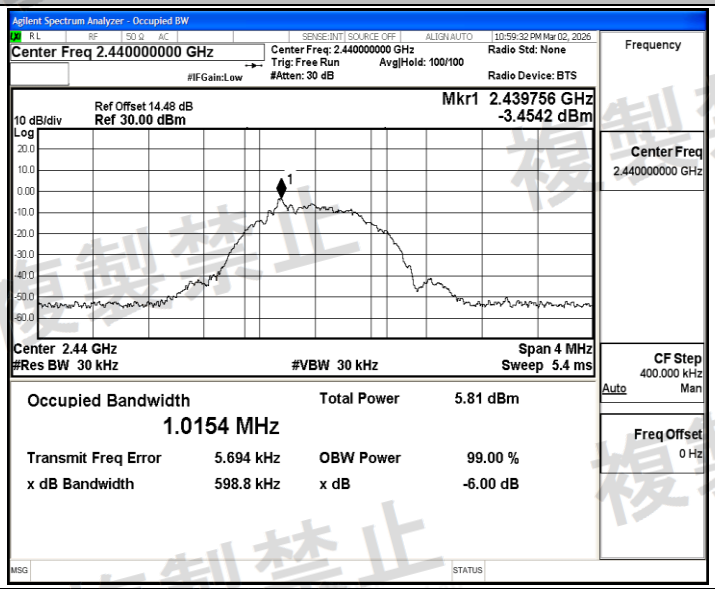
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.017	≤26	PASS
			2440	1.015	≤26	PASS
			2480	1.018	≤26	PASS
	BLE_2M	Ant1	2402	2.022	≤26	PASS
			2440	2.024	≤26	PASS
			2480	2.031	≤26	PASS

Test Graphs

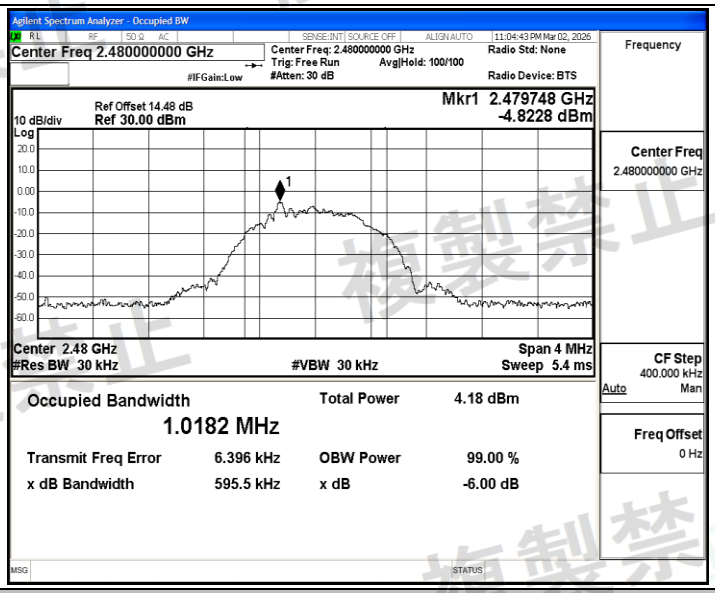
NTNV_BLE_1M_Ant1_2402



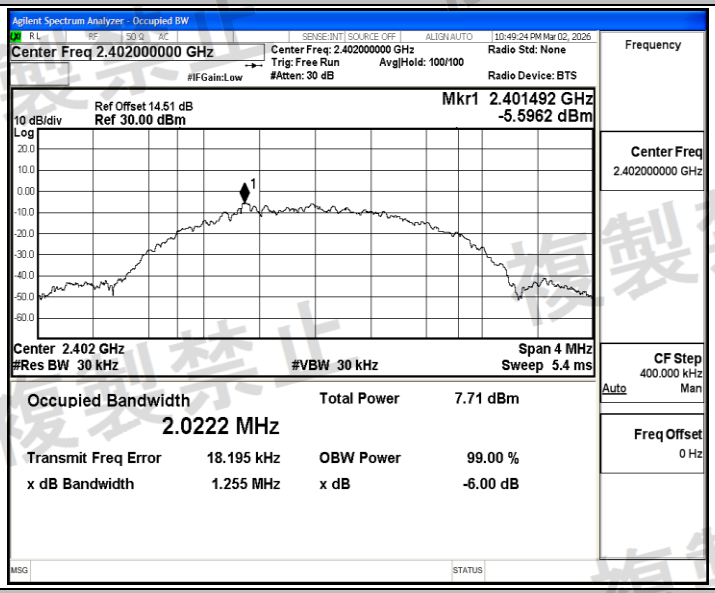
NTNV_BLE_1M_Ant1_2440



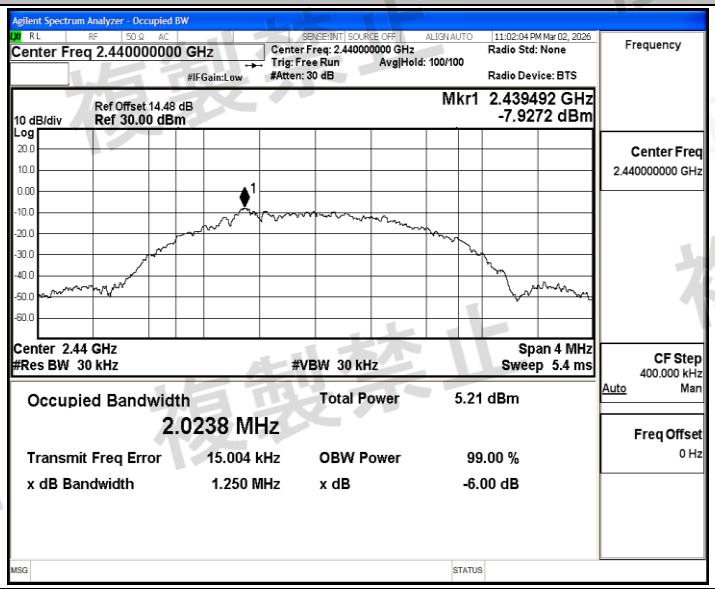
NTNV_BLE_1M_Ant1_2480



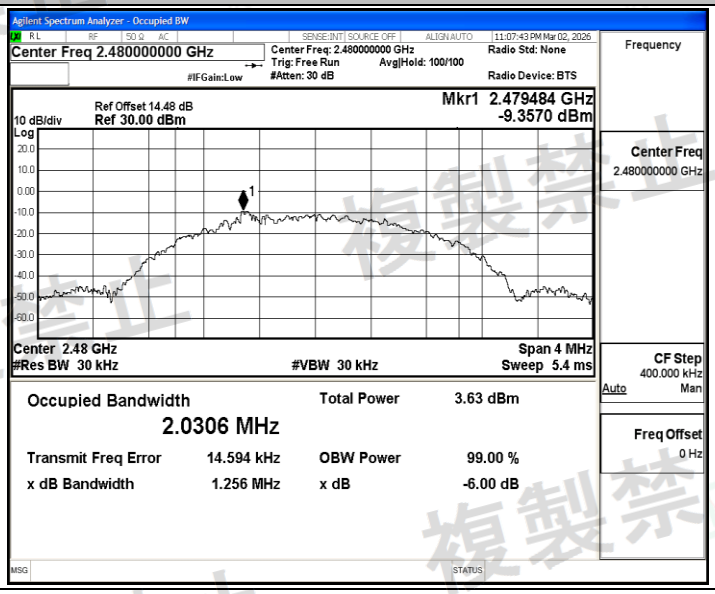
NTNV_BLE_2M_Ant1_2402



NTNV_BLE_2M_Ant1_2440



NTNV_BLE_2M_Ant1_2480



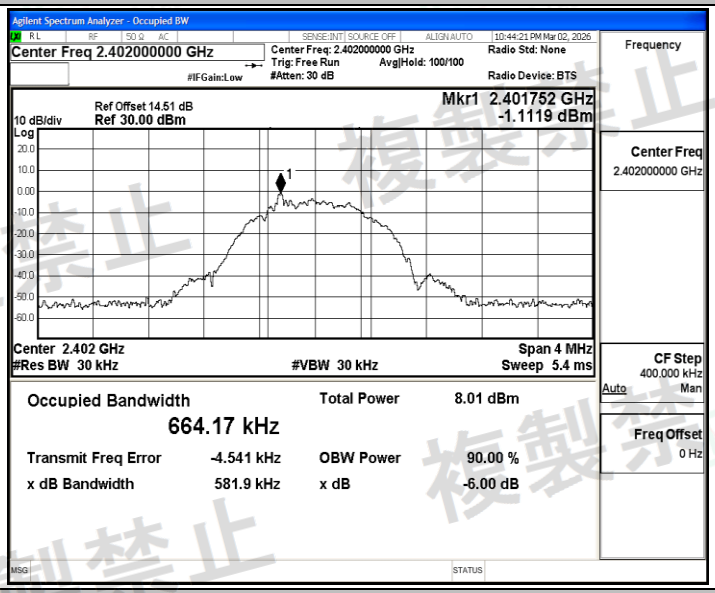
B.4 Spread Bandwidth

Test Result

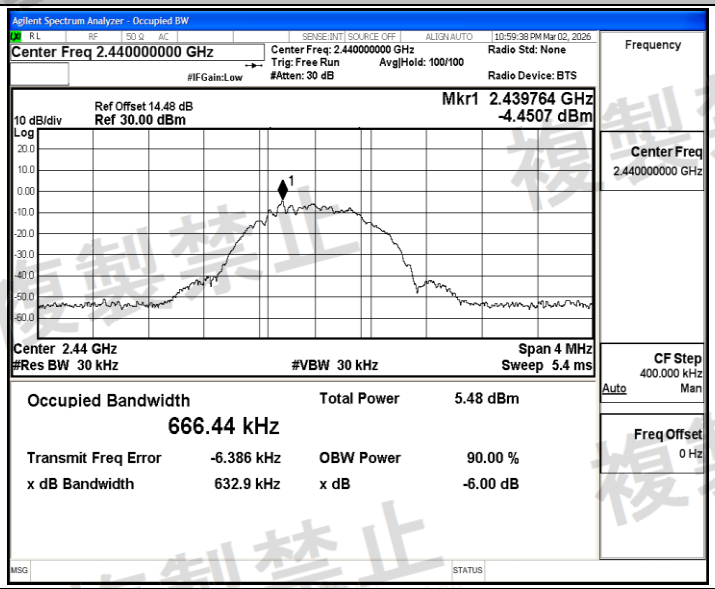
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.664	---	PASS
			2440	0.666	---	PASS
			2480	0.663	---	PASS
	BLE_2M	Ant1	2402	1.334	---	PASS
			2440	1.340	---	PASS
			2480	1.342	---	PASS

Test Graphs

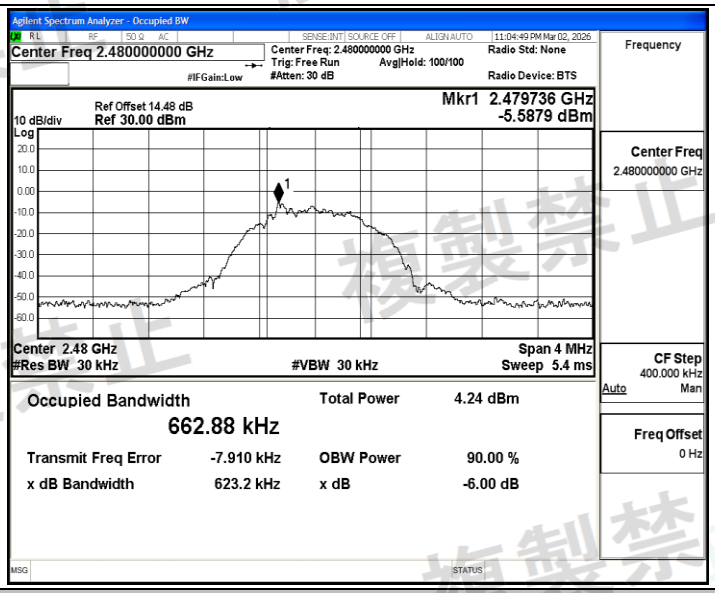
NTNV_BLE_1M_Ant1_2402



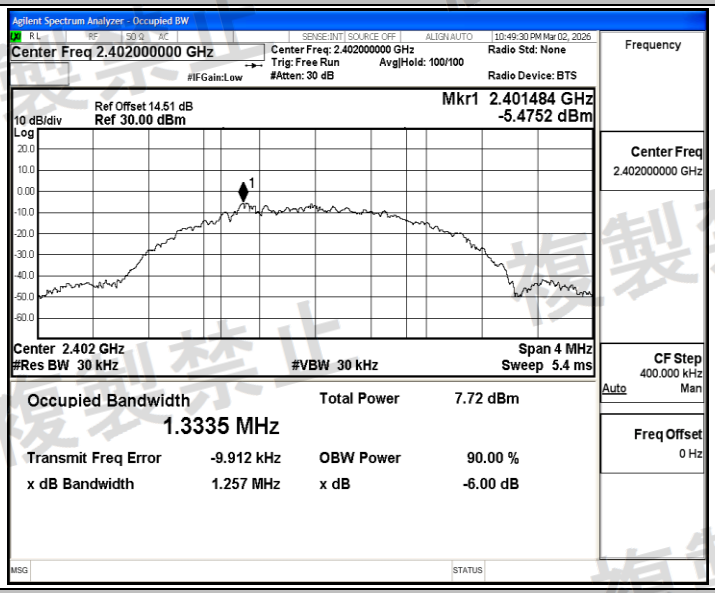
NTNV_BLE_1M_Ant1_2440



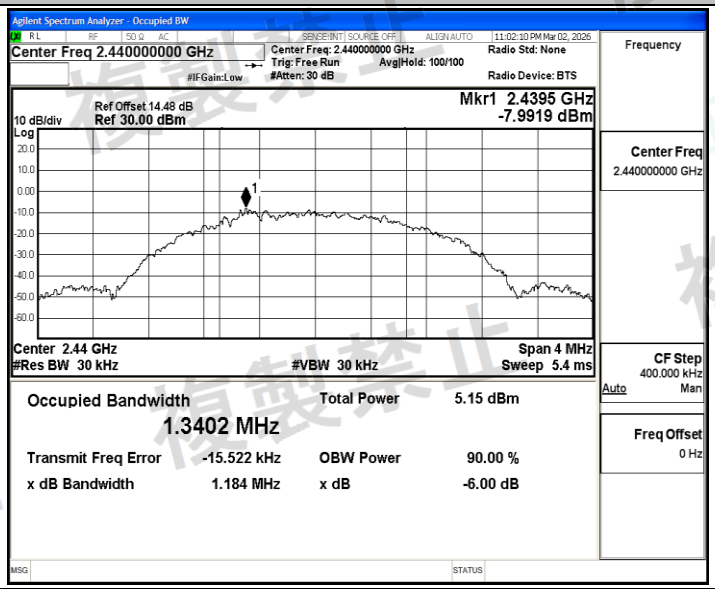
NTNV_BLE_1M_Ant1_2480



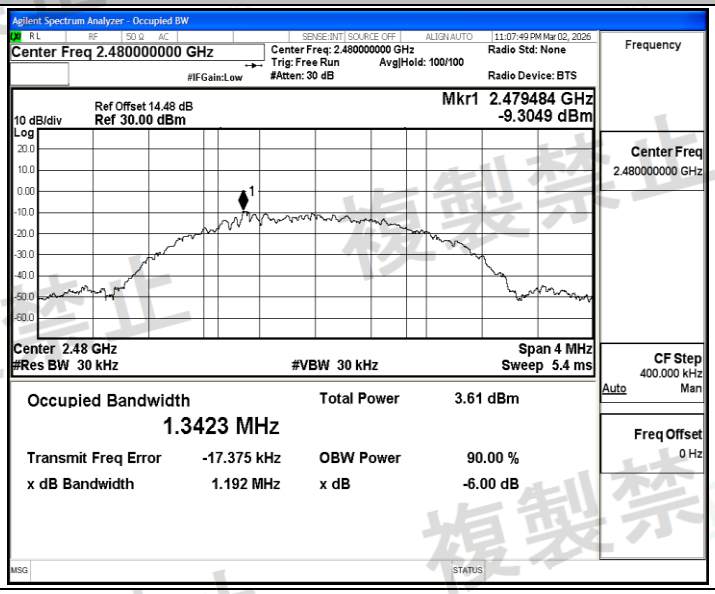
NTNV_BLE_2M_Ant1_2402



NTNV_BLE_2M_Ant1_2440



NTNV_BLE_2M_Ant1_2480



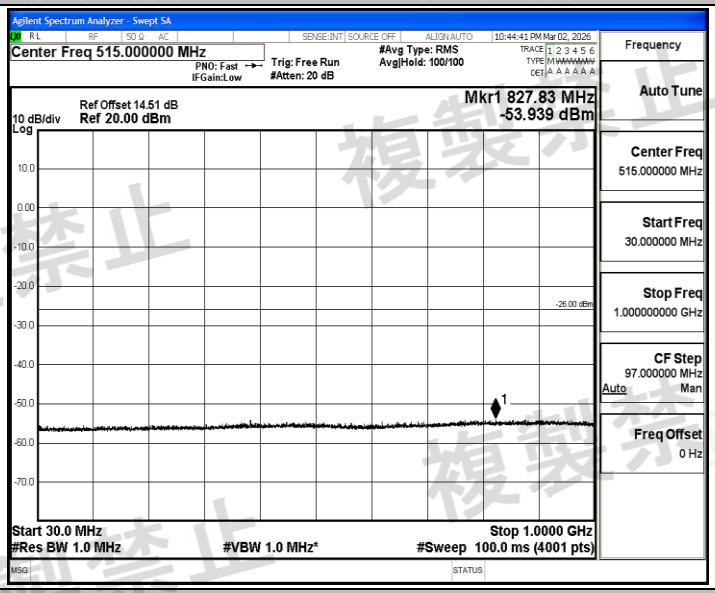
B.5 Spurious Emission of TX

Test Result

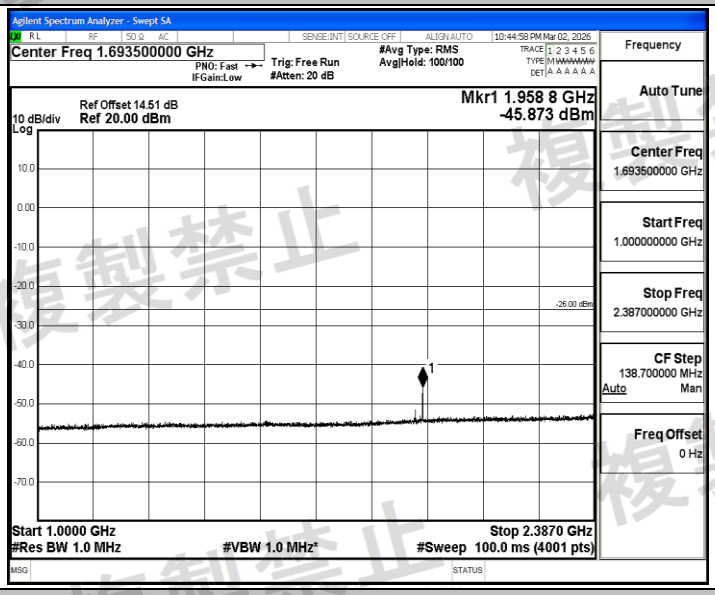
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-53.94	≤-26	0.00404	≤2.5	PASS
				1000~2387	-45.87	≤-26	0.02588	≤2.5	PASS
				2387~2400	-40.08	≤-16	0.09817	≤25	PASS
				2483.5~2496.5	-43.08	≤-16	0.04920	≤25	PASS
				2496.5~13000	-44.97	≤-26	0.03184	≤2.5	PASS
			2440	30~1000	-53.85	≤-26	0.00412	≤2.5	PASS
				1000~2387	-52.77	≤-26	0.00528	≤2.5	PASS
				2387~2400	-43.43	≤-16	0.04539	≤25	PASS
				2483.5~2496.5	-43.35	≤-16	0.04624	≤25	PASS
				2496.5~13000	-45.29	≤-26	0.02958	≤2.5	PASS
			2480	30~1000	-53.79	≤-26	0.00418	≤2.5	PASS
				1000~2387	-52.63	≤-26	0.00546	≤2.5	PASS
				2387~2400	-43.33	≤-16	0.04645	≤25	PASS
				2483.5~2496.5	-43.15	≤-16	0.04842	≤25	PASS
				2496.5~13000	-45.79	≤-26	0.02636	≤2.5	PASS
	BLE_2M	Ant1	2402	30~1000	-53.84	≤-26	0.00413	≤2.5	PASS
				1000~2387	-46.98	≤-26	0.02004	≤2.5	PASS
				2387~2400	-25.92	≤-16	2.55859	≤25	PASS
				2483.5~2496.5	-43.19	≤-16	0.04797	≤25	PASS
				2496.5~13000	-45.11	≤-26	0.03083	≤2.5	PASS
			2440	30~1000	-54.04	≤-26	0.00394	≤2.5	PASS
				1000~2387	-52.45	≤-26	0.00569	≤2.5	PASS
				2387~2400	-43.15	≤-16	0.04842	≤25	PASS
				2483.5~2496.5	-43.29	≤-16	0.04688	≤25	PASS
				2496.5~13000	-45.20	≤-26	0.03020	≤2.5	PASS
			2480	30~1000	-37.62	≤-26	0.17298	≤2.5	PASS
				1000~2387	-52.95	≤-26	0.00507	≤2.5	PASS
				2387~2400	-43.07	≤-16	0.04932	≤25	PASS
				2483.5~2496.5	-43.12	≤-16	0.04875	≤25	PASS
				2496.5~13000	-45.42	≤-26	0.02871	≤2.5	PASS

Test Graphs

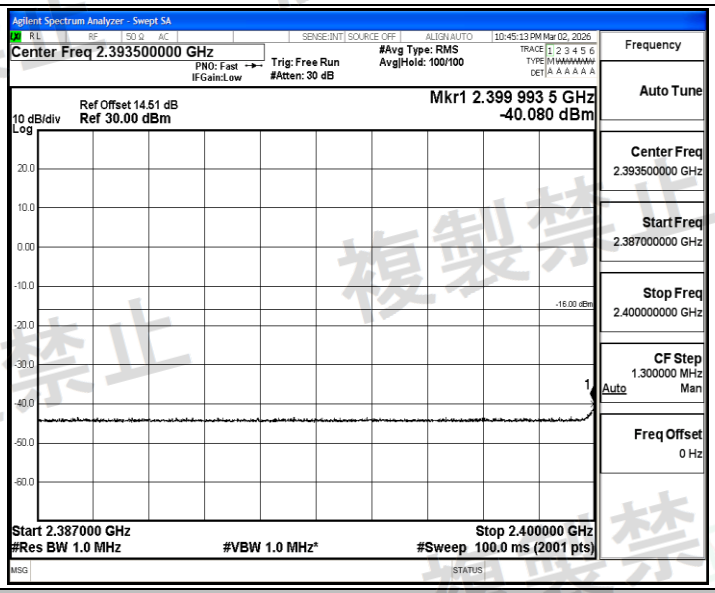
NTNV_BLE_1M_Ant1_2402_30~1000



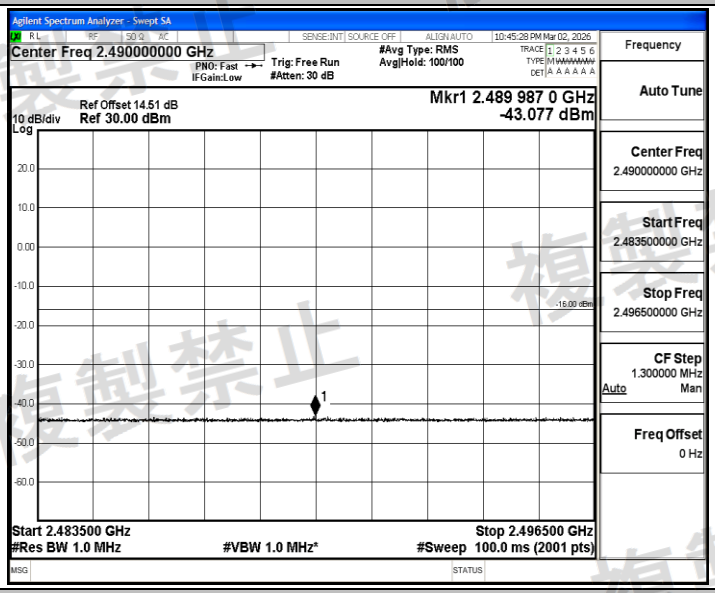
NTNV_BLE_1M_Ant1_2402_1000~2387



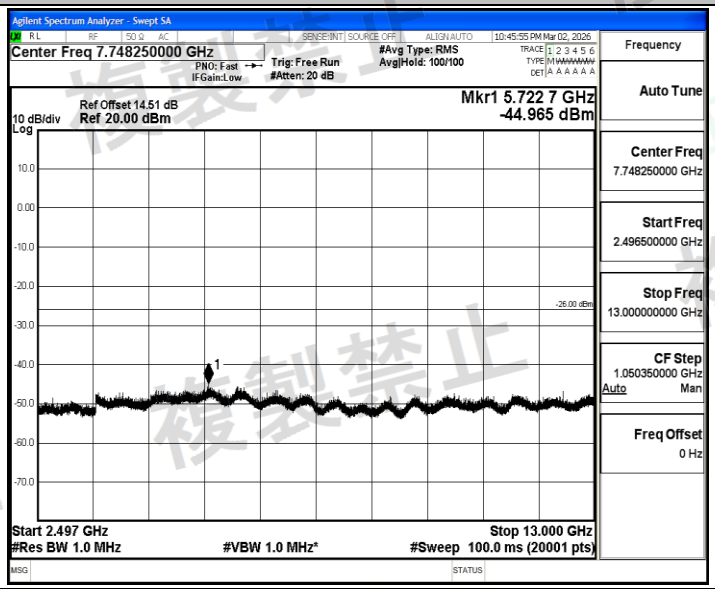
NTNV_BLE_1M_Ant1_2402_2387~2400



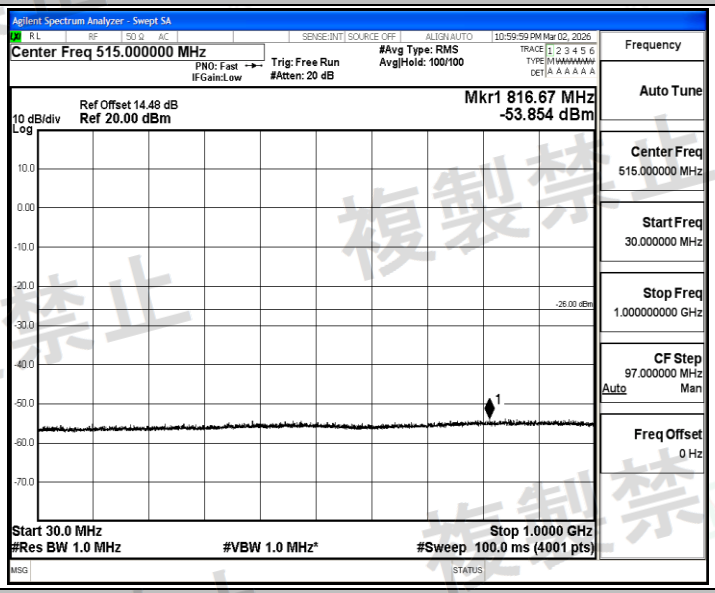
NTNV_BLE_1M_Ant1_2402_2483.5~2496.5



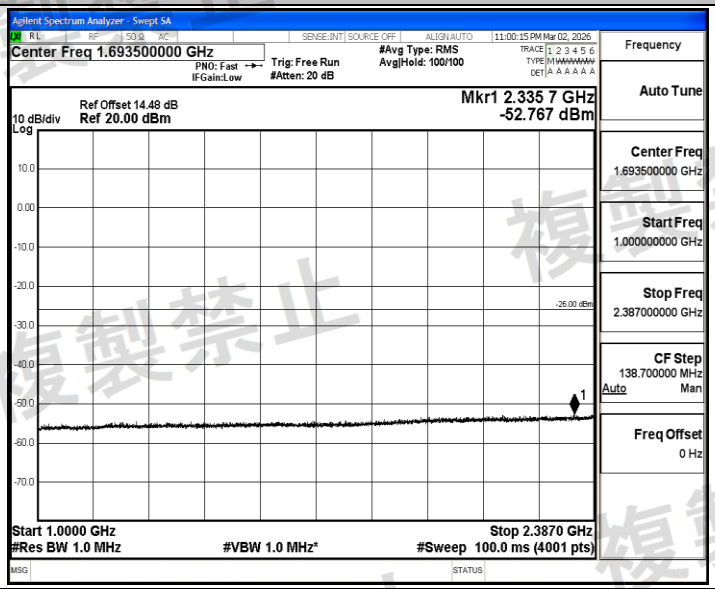
NTNV_BLE_1M_Ant1_2402_2496.5~13000



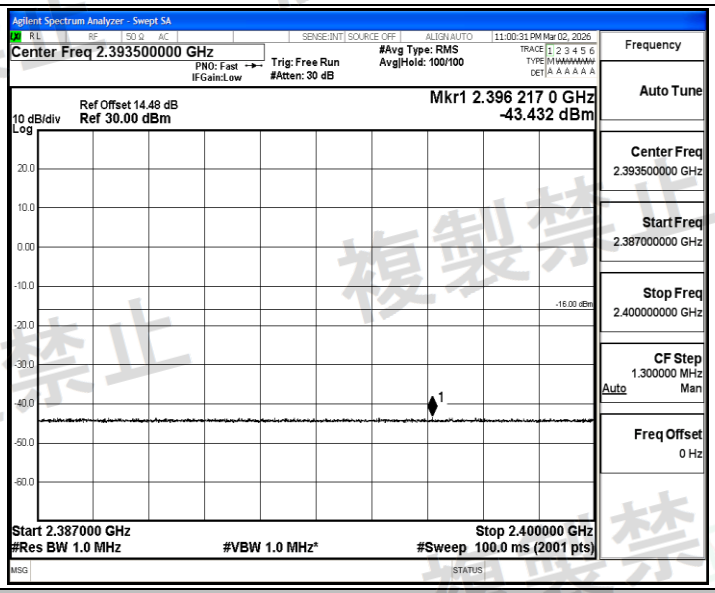
NTNV_BLE_1M_Ant1_2440_30~1000



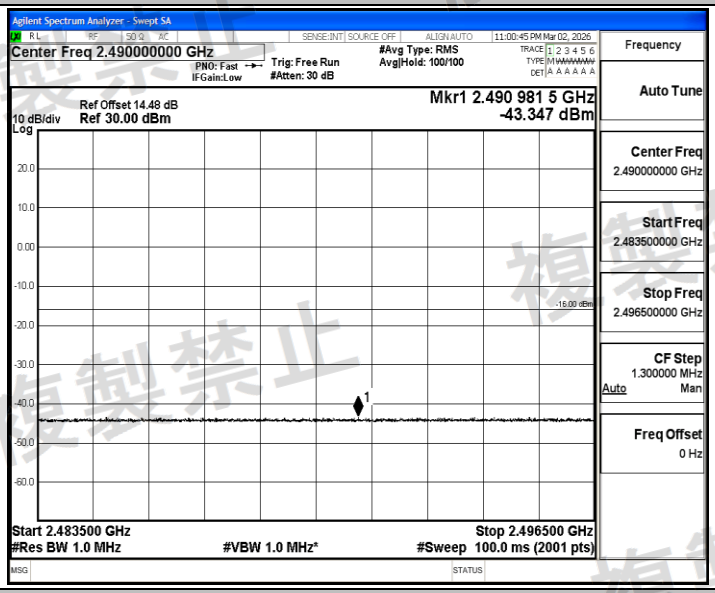
NTNV_BLE_1M_Ant1_2440_1000~2387



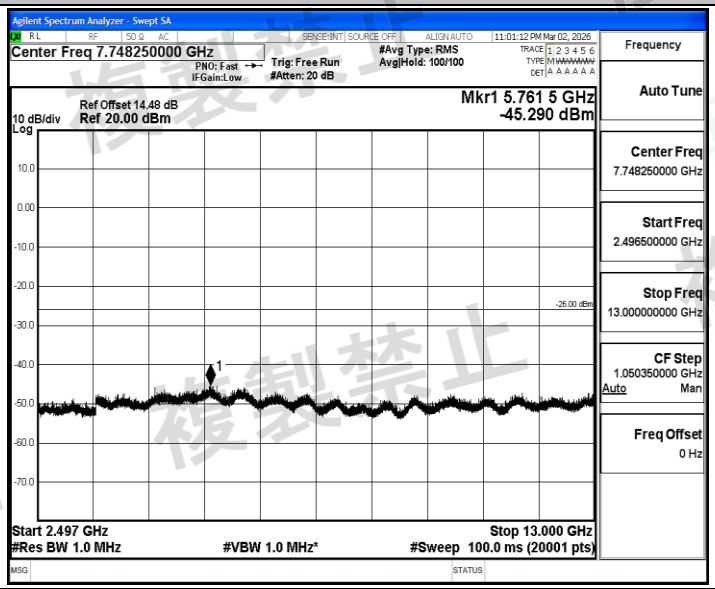
NTNV_BLE_1M_Ant1_2440_2387~2400



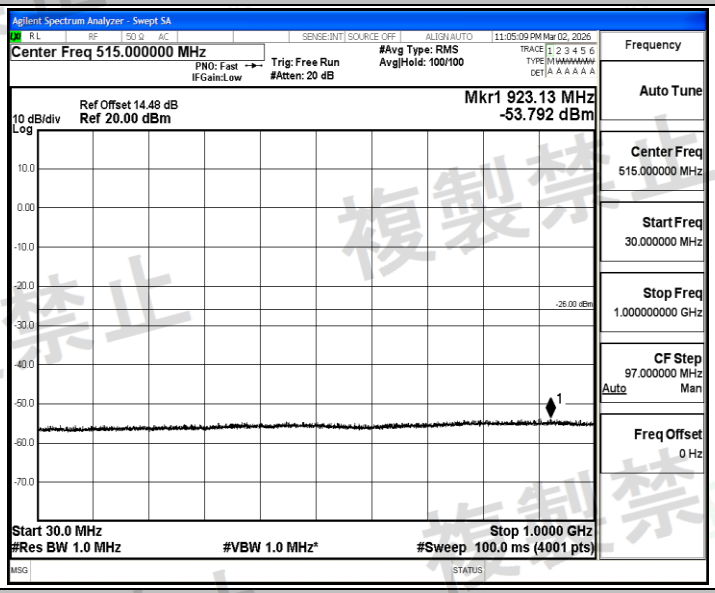
NTNV_BLE_1M_Ant1_2440_2483.5~2496.5



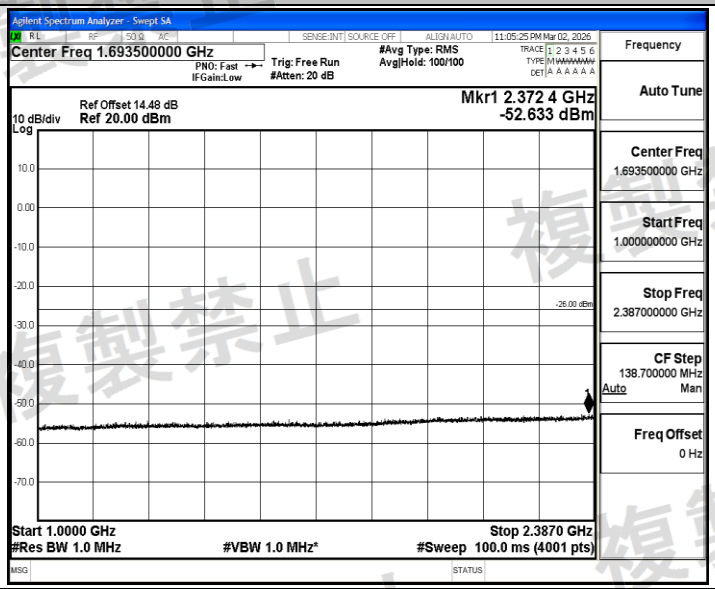
NTNV_BLE_1M_Ant1_2440_2496.5~13000



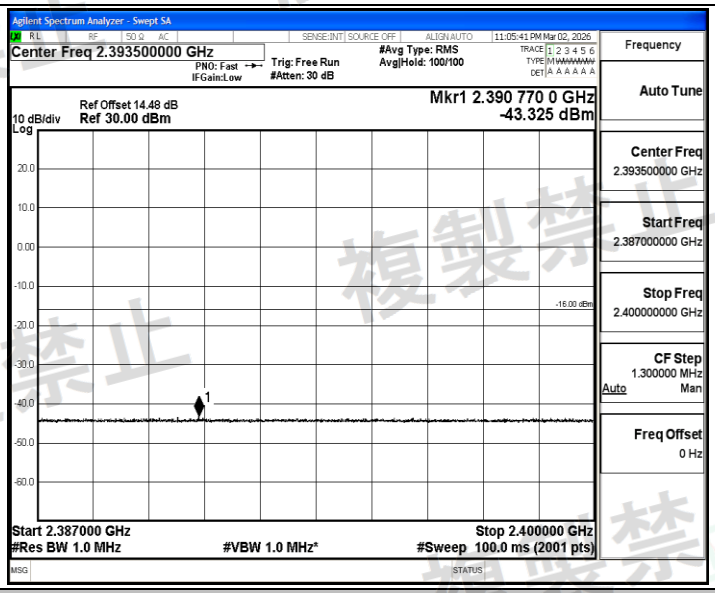
NTNV_BLE_1M_Ant1_2480_30~1000



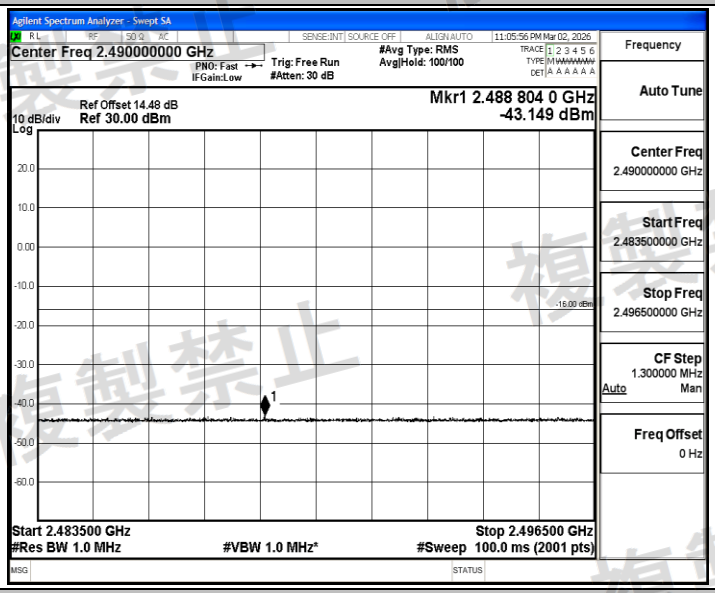
NTNV_BLE_1M_Ant1_2480_1000~2387



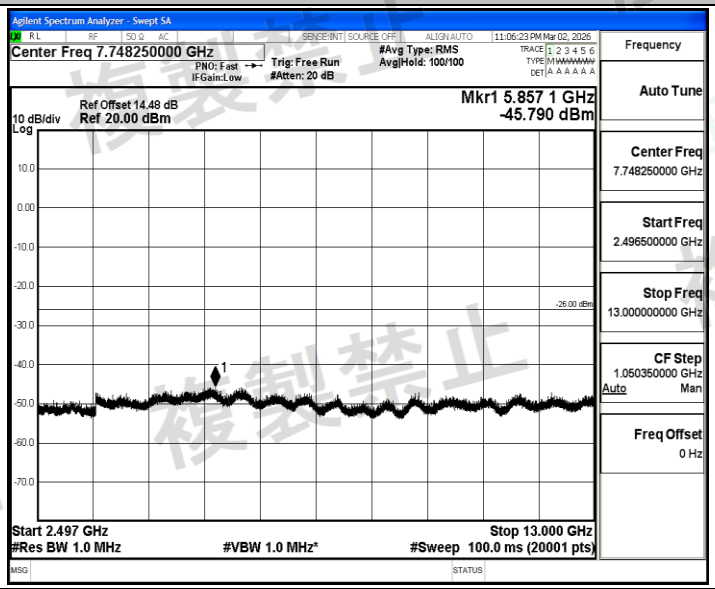
NTNV_BLE_1M_Ant1_2480_2387~2400



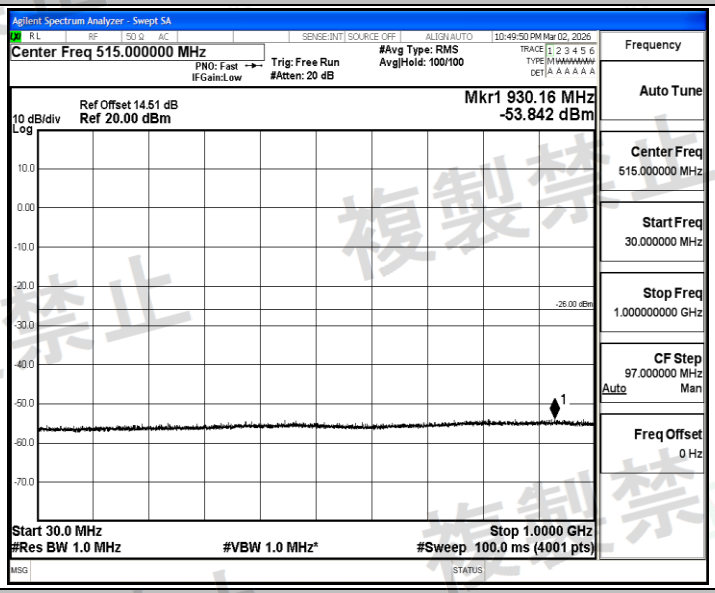
NTNV_BLE_1M_Ant1_2480_2483.5~2496.5



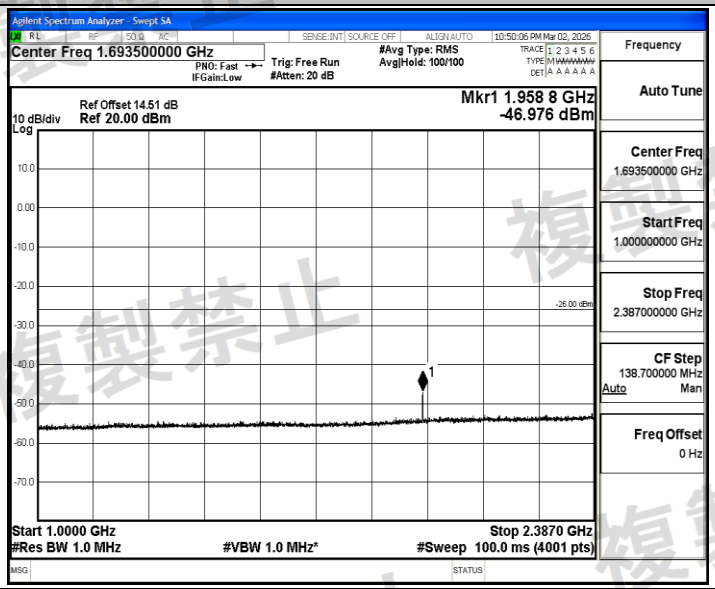
NTNV_BLE_1M_Ant1_2480_2496.5~13000



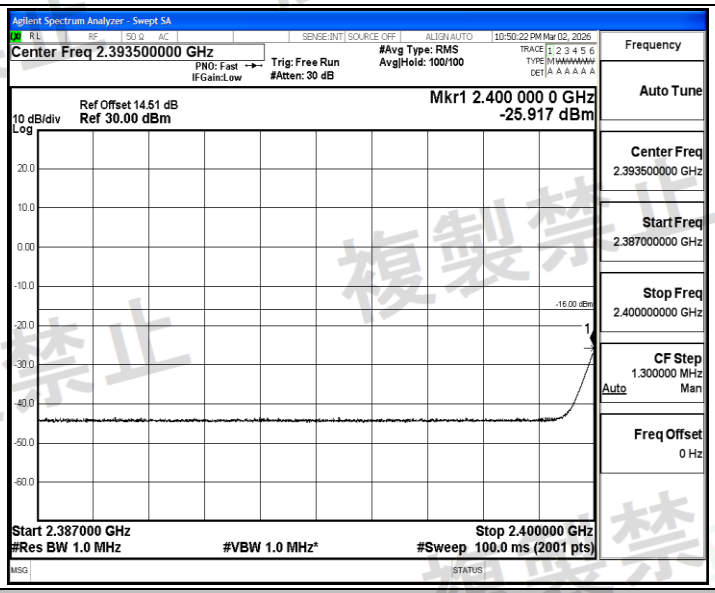
NTNV_BLE_2M_Ant1_2402_30~1000



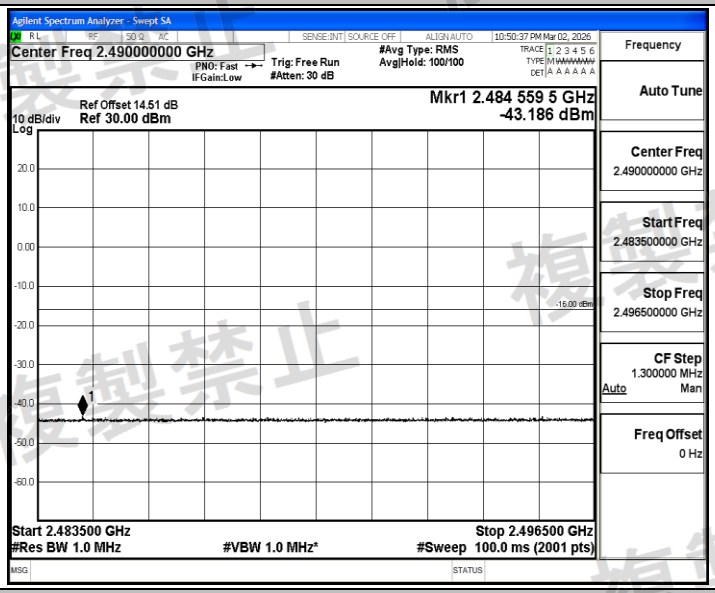
NTNV_BLE_2M_Ant1_2402_1000~2387



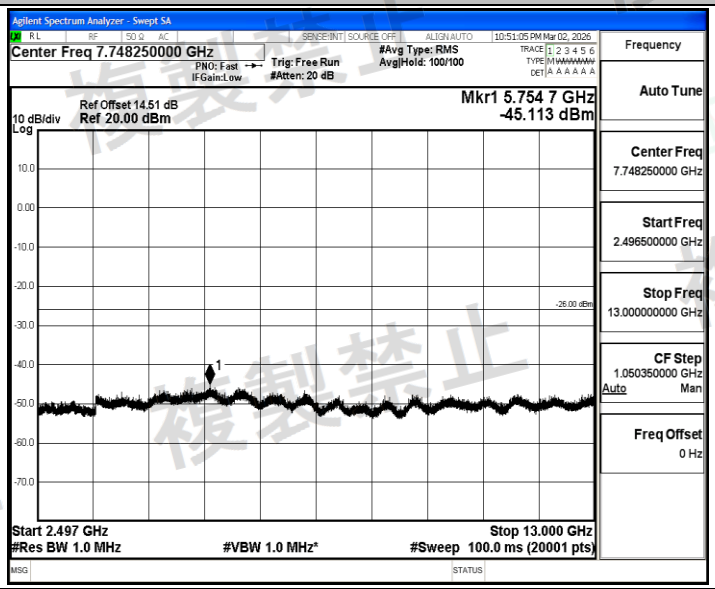
NTNV_BLE_2M_Ant1_2402_2387~2400



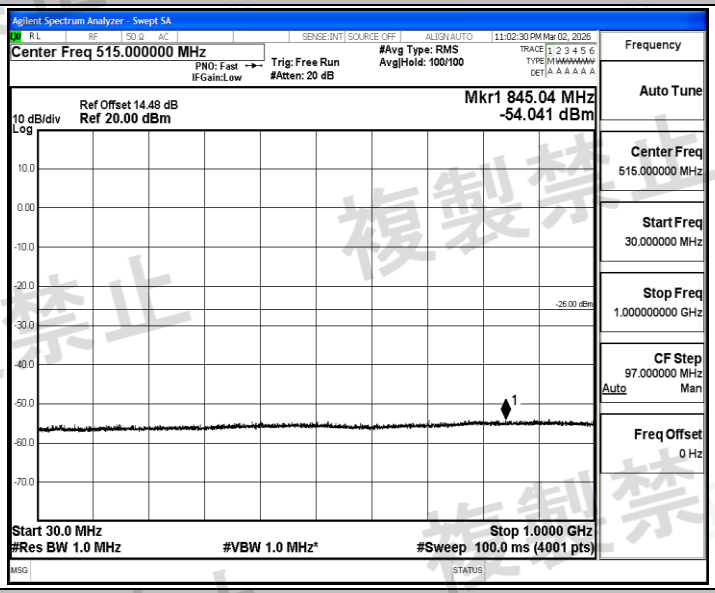
NTNV_BLE_2M_Ant1_2402_2483.5~2496.5



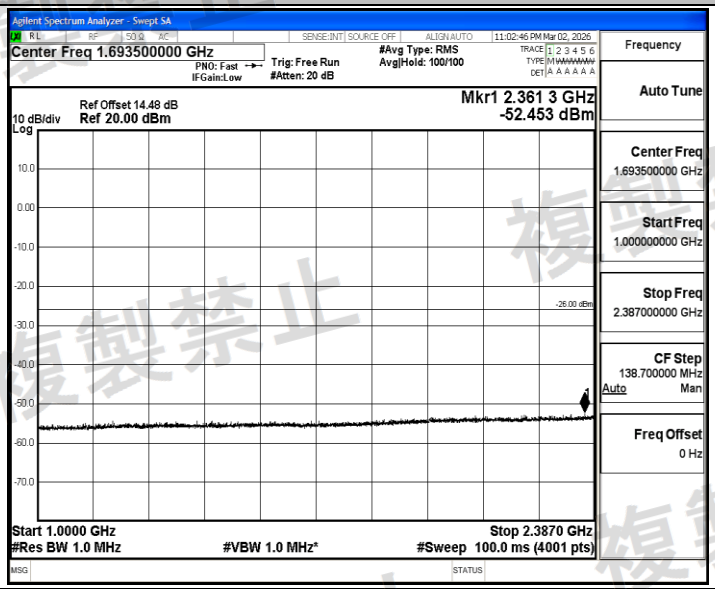
NTNV_BLE_2M_Ant1_2402_2496.5~13000



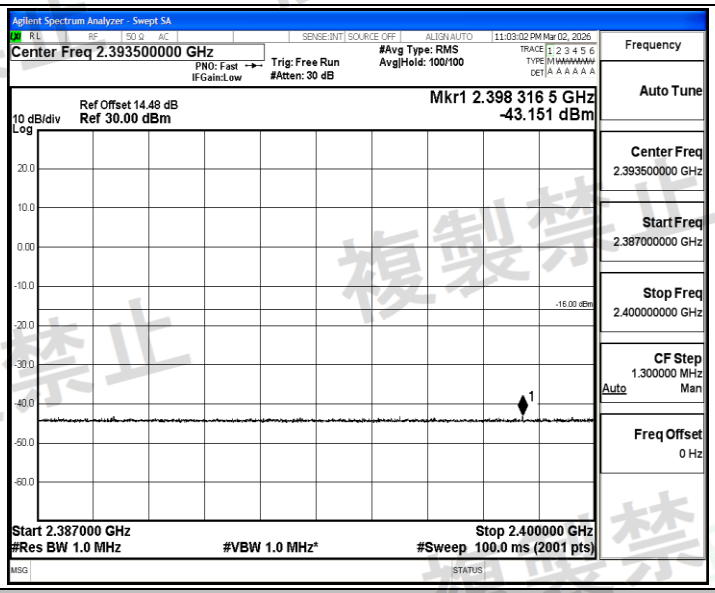
NTNV_BLE_2M_Ant1_2440_30~1000



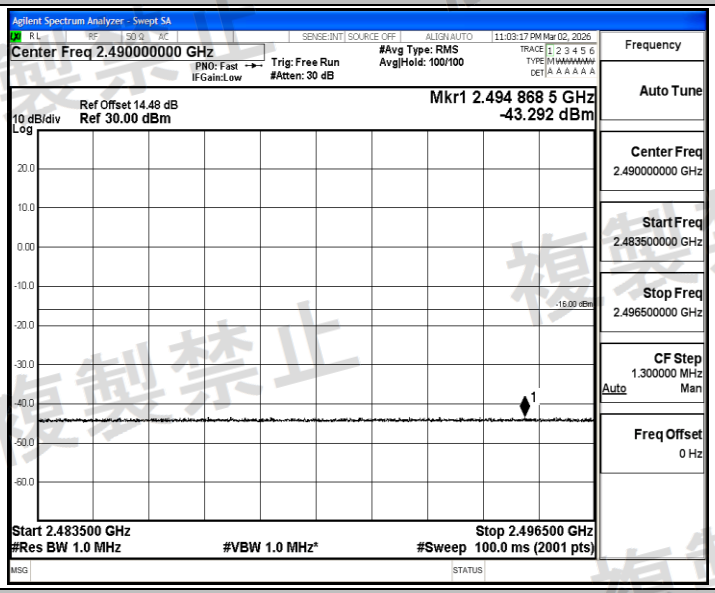
NTNV_BLE_2M_Ant1_2440_1000~2387



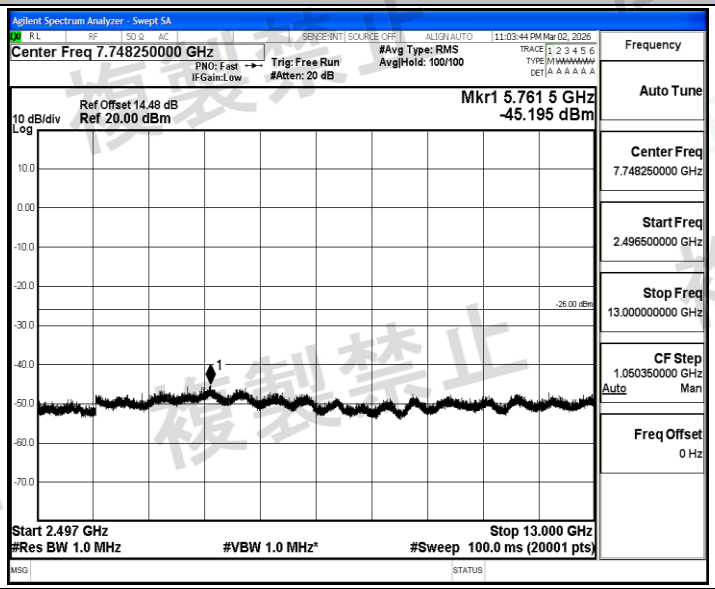
NTNV_BLE_2M_Ant1_2440_2387~2400



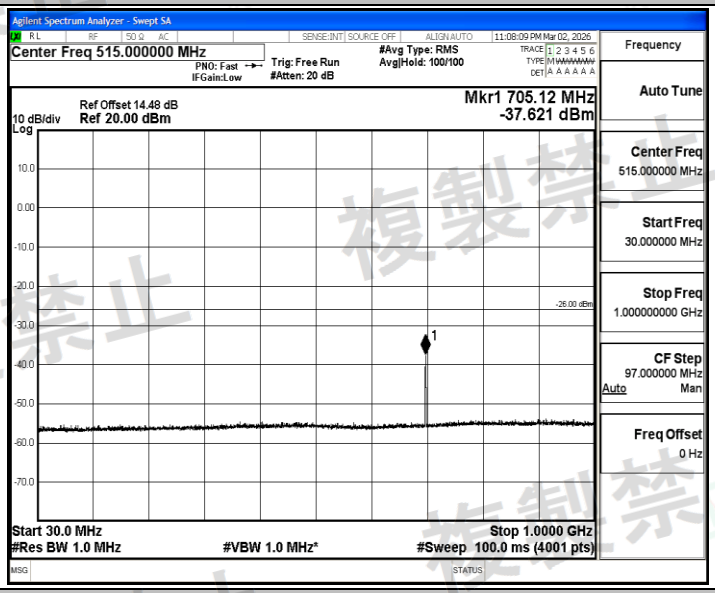
NTNV_BLE_2M_Ant1_2440_2483.5~2496.5



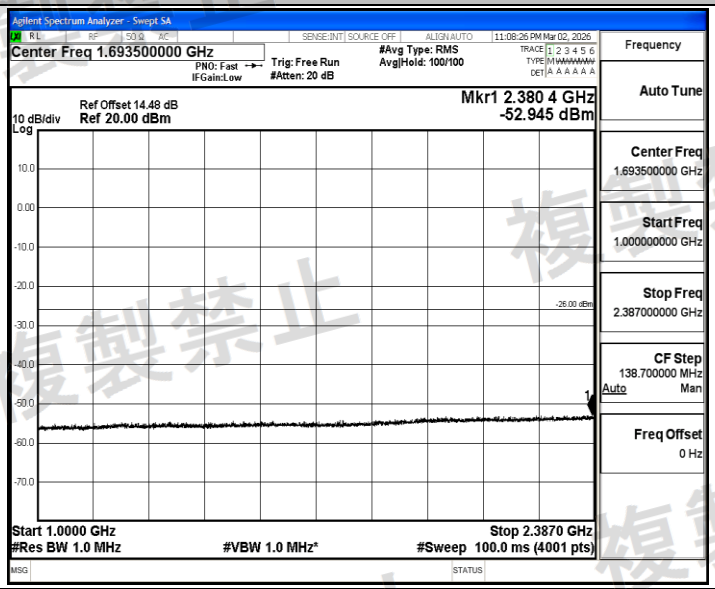
NTNV_BLE_2M_Ant1_2440_2496.5~13000



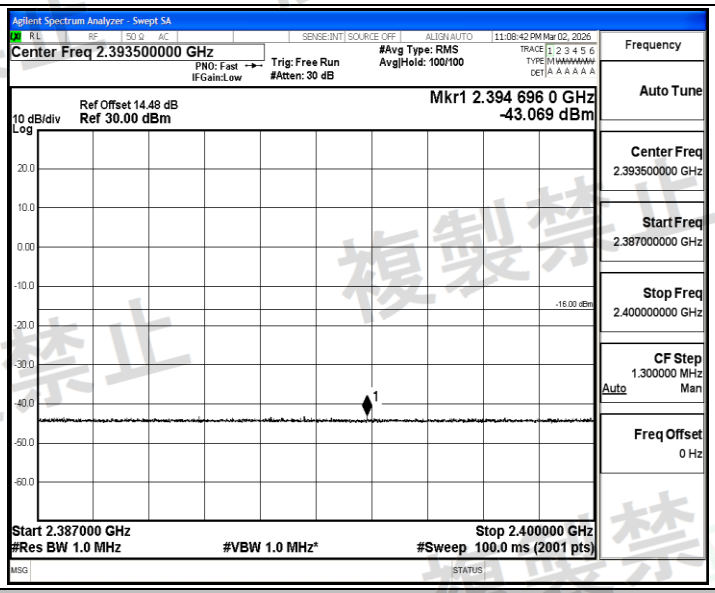
NTNV_BLE_2M_Ant1_2480_30~1000



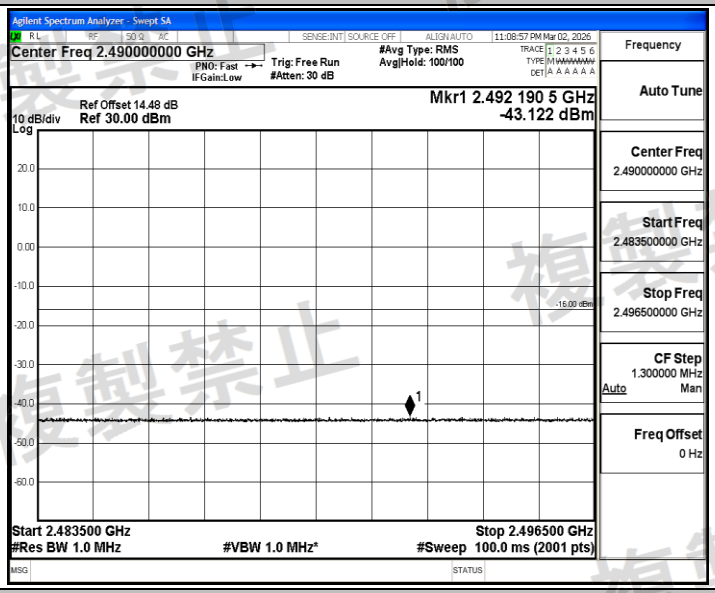
NTNV_BLE_2M_Ant1_2480_1000~2387



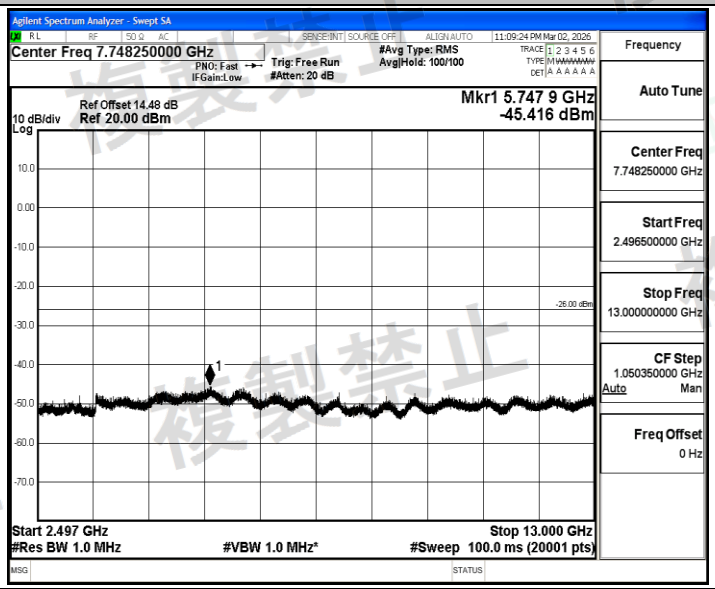
NTNV_BLE_2M_Ant1_2480_2387~2400



NTNV_BLE_2M_Ant1_2480_2483.5~2496.5



NTNV_BLE_2M_Ant1_2480_2496.5~13000



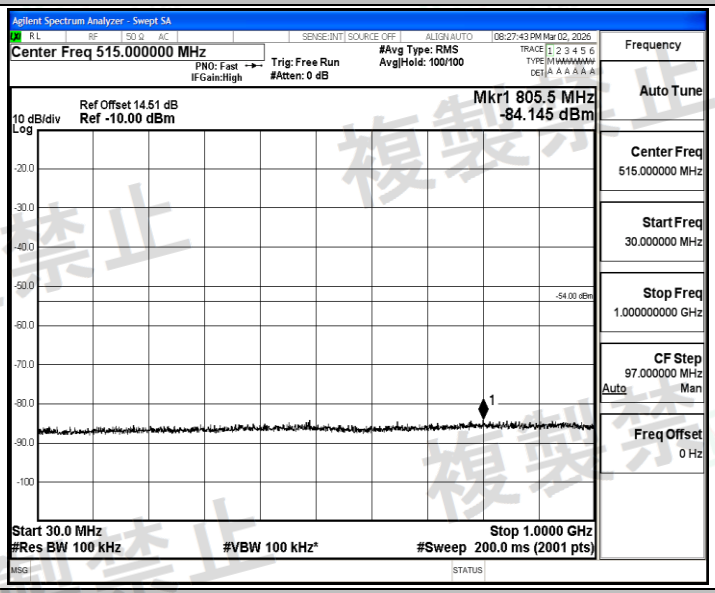
B.6 Spurious Emission of RX

Test Result

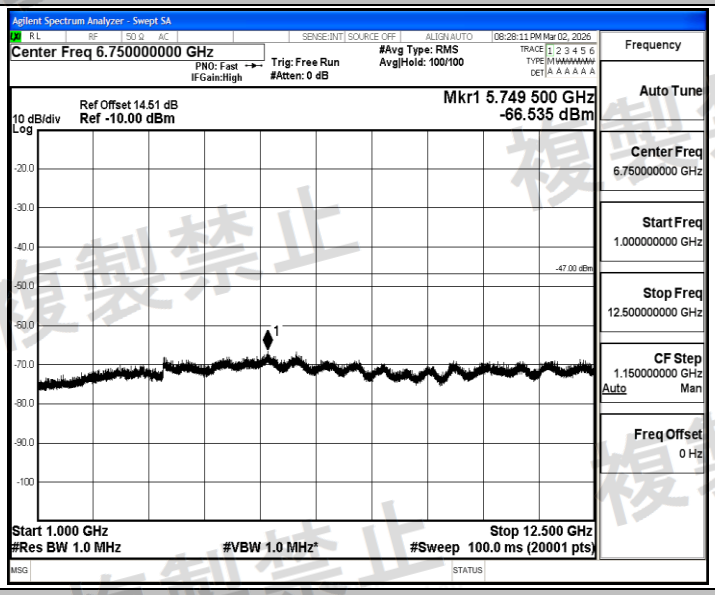
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-84.15	≤-54	0.00385	≤4	PASS
				1000~12500	-66.54	≤-47	0.22182	≤20	PASS
			2440	30~1000	-84.06	≤-54	0.00393	≤4	PASS
				1000~12500	-66.35	≤-47	0.23174	≤20	PASS
			2480	30~1000	-84.01	≤-54	0.00397	≤4	PASS
				1000~12500	-66.87	≤-47	0.20559	≤20	PASS
	BLE_2M	Ant1	2402	30~1000	-84.26	≤-54	0.00375	≤4	PASS
				1000~12500	-66.83	≤-47	0.20749	≤20	PASS
			2440	30~1000	-84.44	≤-54	0.00360	≤4	PASS
				1000~12500	-67.27	≤-47	0.18750	≤20	PASS
			2480	30~1000	-83.95	≤-54	0.00403	≤4	PASS
				1000~12500	-67.02	≤-47	0.19861	≤20	PASS

Test Graphs

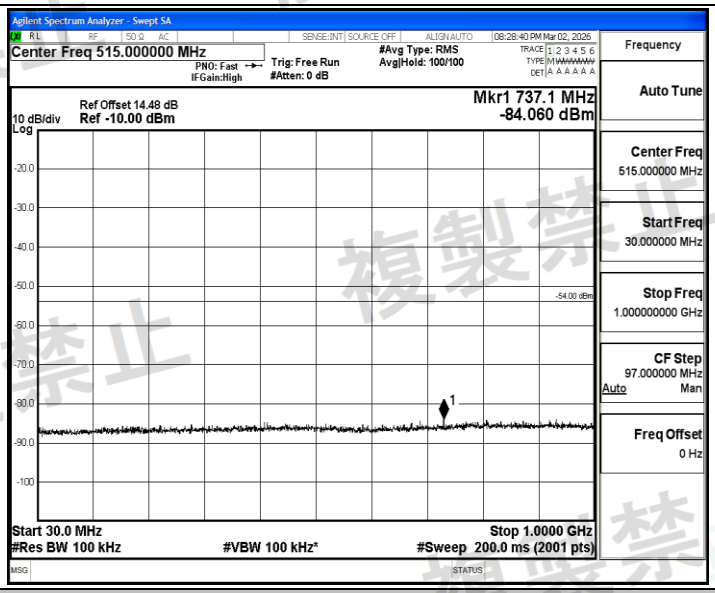
NTNV_BLE_1M_Ant1_2402_30~1000



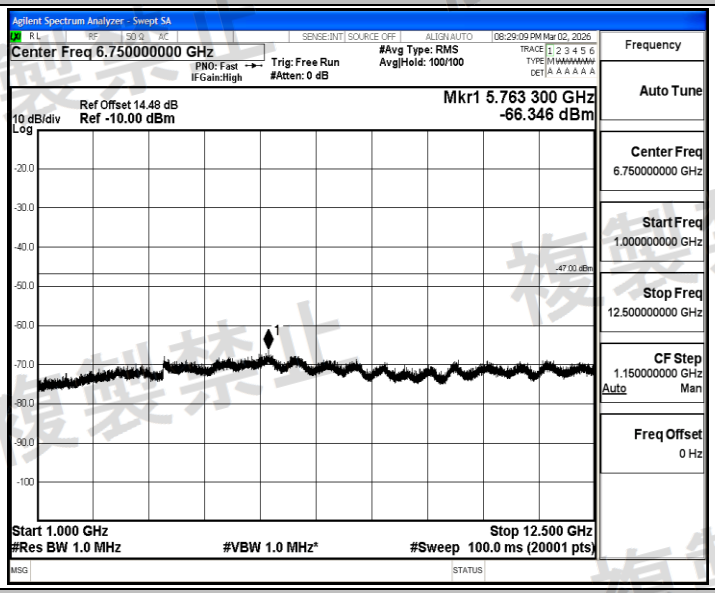
NTNV_BLE_1M_Ant1_2402_1000~12500



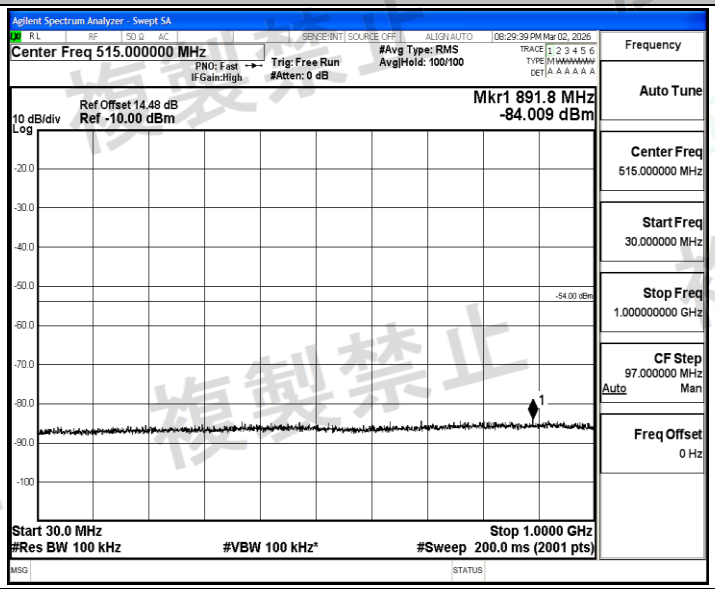
NTNV_BLE_1M_Ant1_2440_30~1000



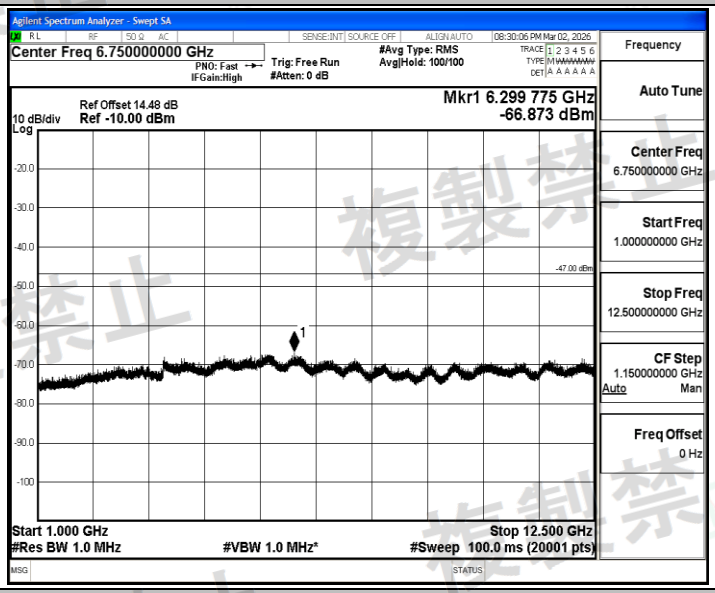
NTNV_BLE_1M_Ant1_2440_1000~12500



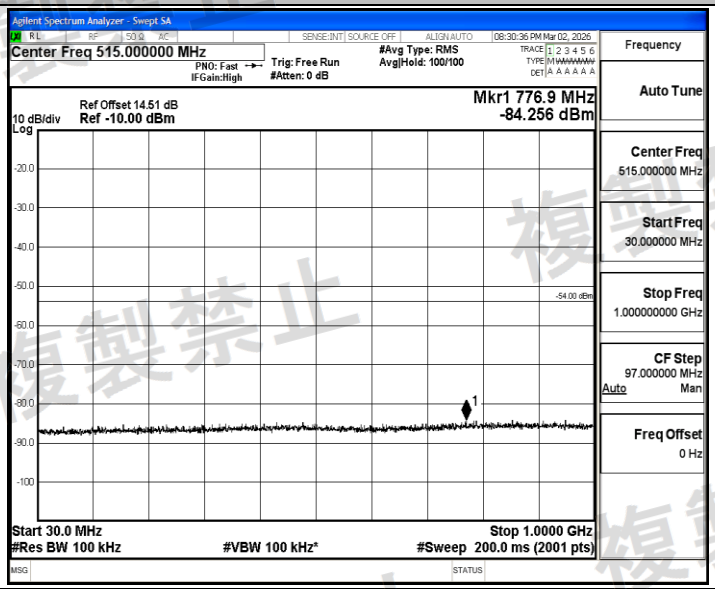
NTNV_BLE_1M_Ant1_2480_30~1000



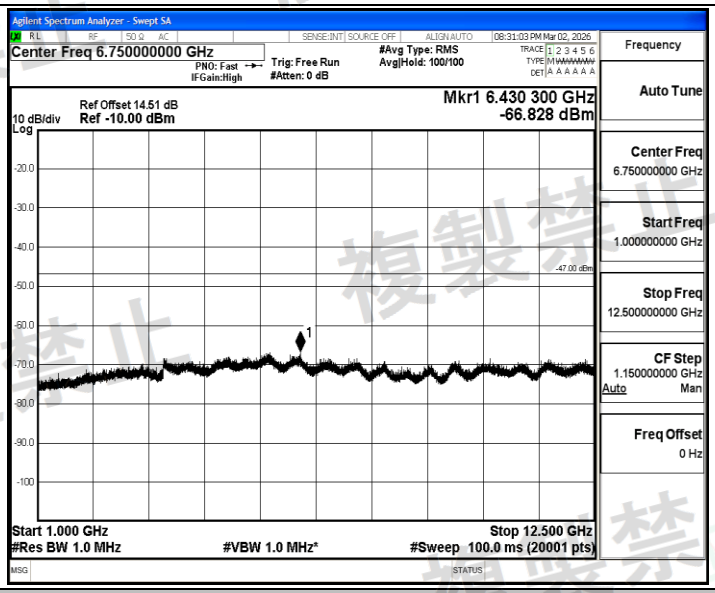
NTNV_BLE_1M_Ant1_2480_1000~12500



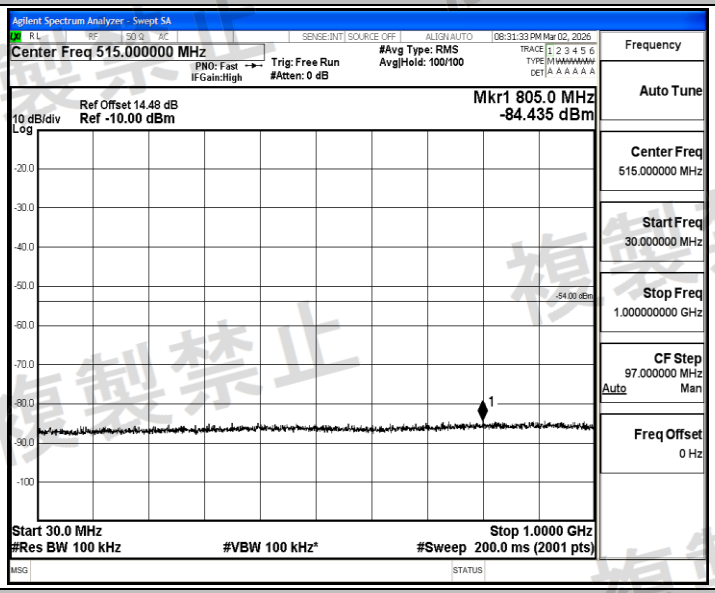
NTNV_BLE_2M_Ant1_2402_30~1000



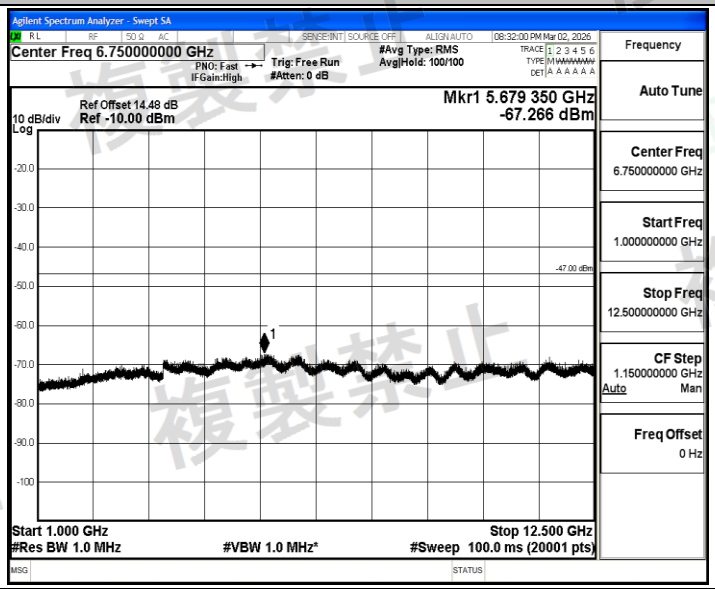
NTNV_BLE_2M_Ant1_2402_1000~12500



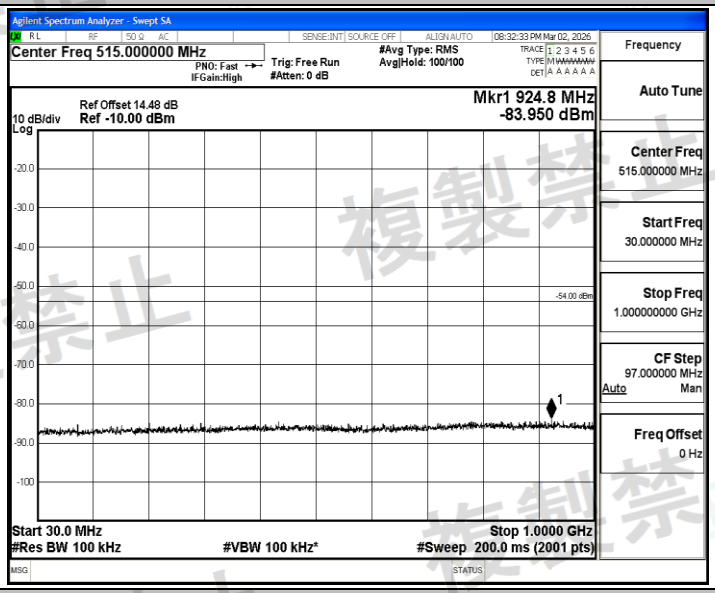
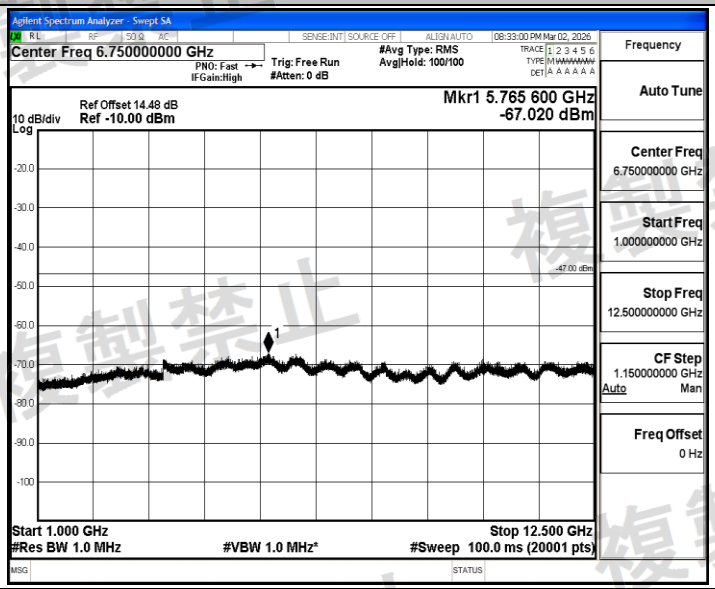
NTNV_BLE_2M_Ant1_2440_30~1000



NTNV_BLE_2M_Ant1_2440_1000~12500



NTNV_BLE_2M_Ant1_2480_30~1000



NTNV_BLE_2M_Ant1_2480_1000~12500