

Appendix B for BT LE Test Data

Product Name: Magnetic Phone Stand Speaker

Test Model: BT-210M

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

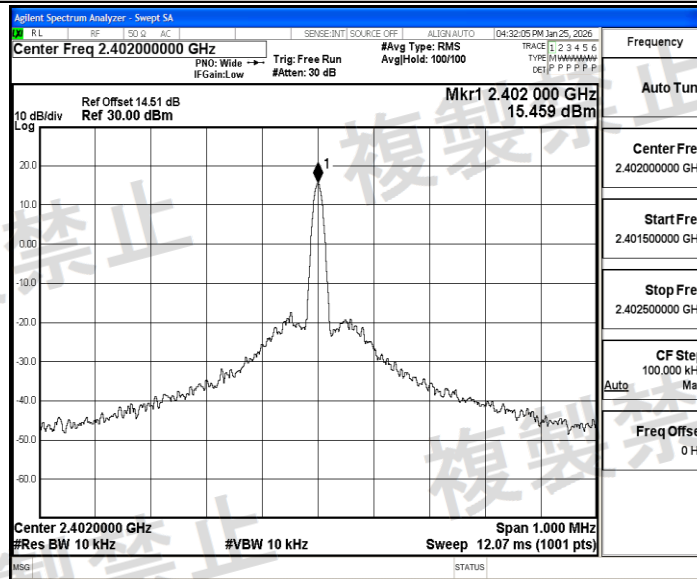
B.1 Frequency Error

Test Result

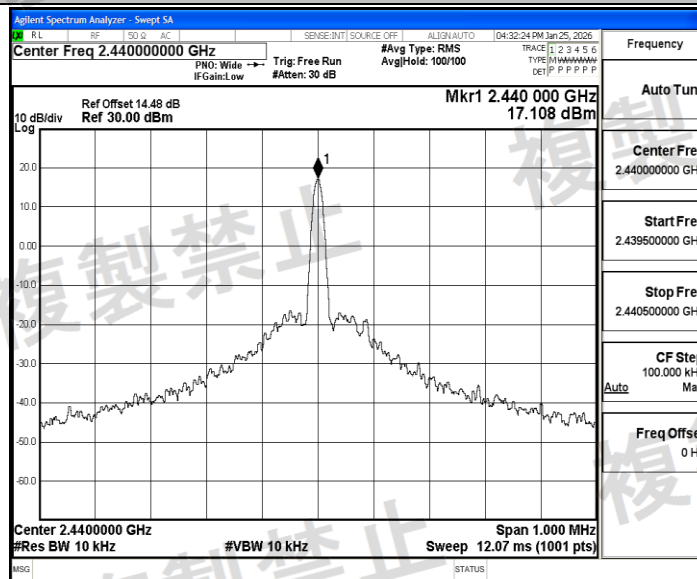
TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2402	0.00000	±50	PASS
			2440	0.00000	±50	PASS
			2480	0.00000	±50	PASS

Test Graphs

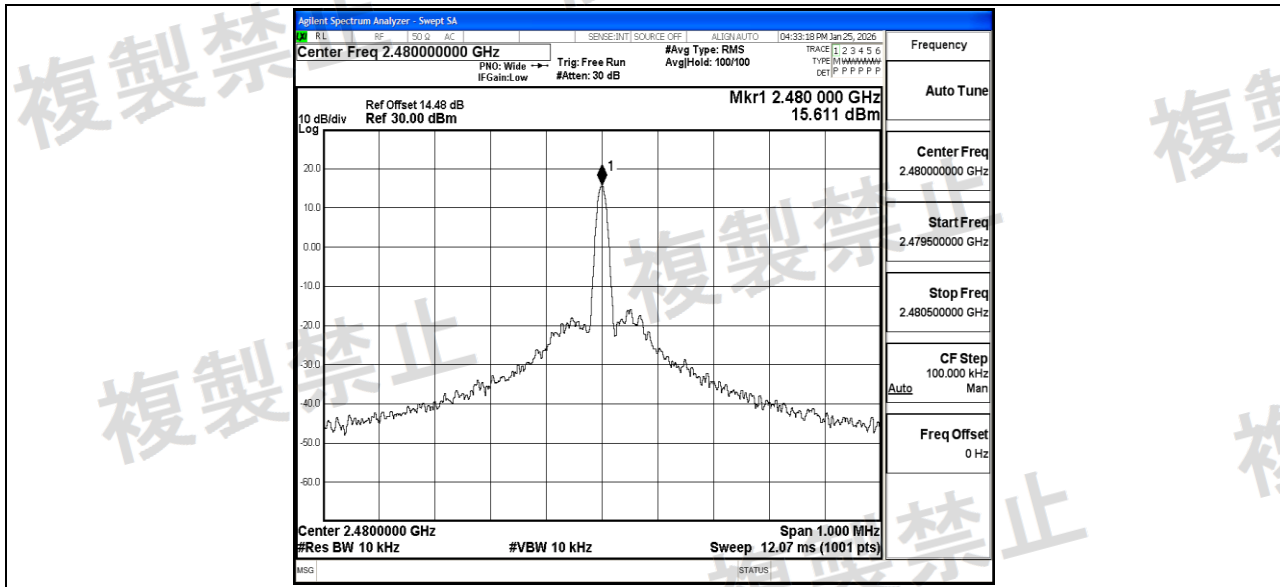
NTNV_Ant1_2402



NTNV_Ant1_2440



NTNV_Ant1_2480



B.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE	Ant1	2402	-0.32	0.9290	≤10	PASS
			2440	-0.14	0.9683	≤10	PASS
			2480	-1.21	0.7568	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE	Ant1	2402	0.9290	1	-7.10	+20	PASS
			2440	0.9683	1	-3.17	+20	PASS
			2480	0.7568	1	-24.32	+20	PASS

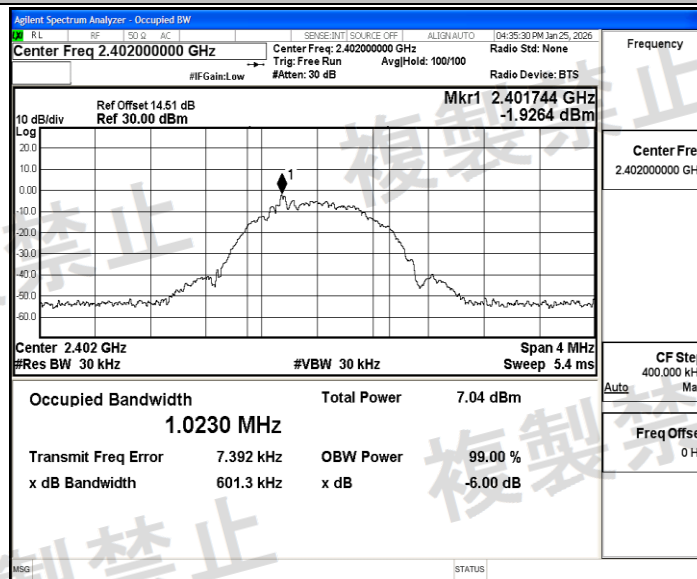
B.3 Occupied Bandwidth

Test Result

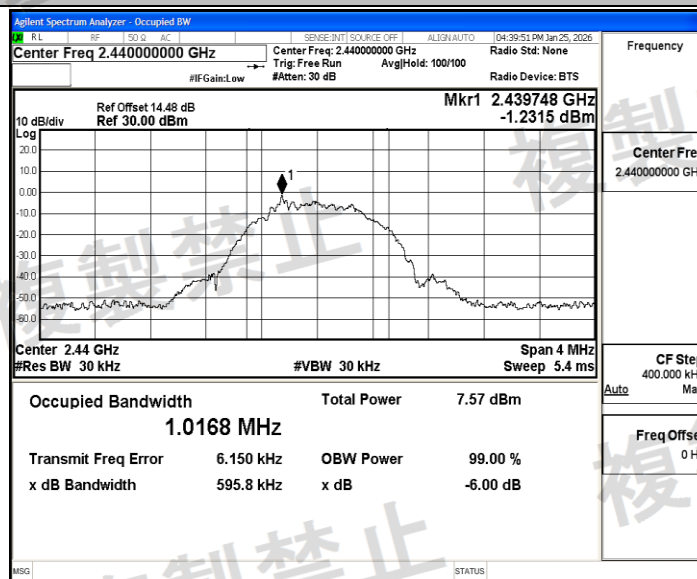
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE	Ant1	2402	1.023	≤26	PASS
			2440	1.017	≤26	PASS
			2480	1.024	≤26	PASS

Test Graphs

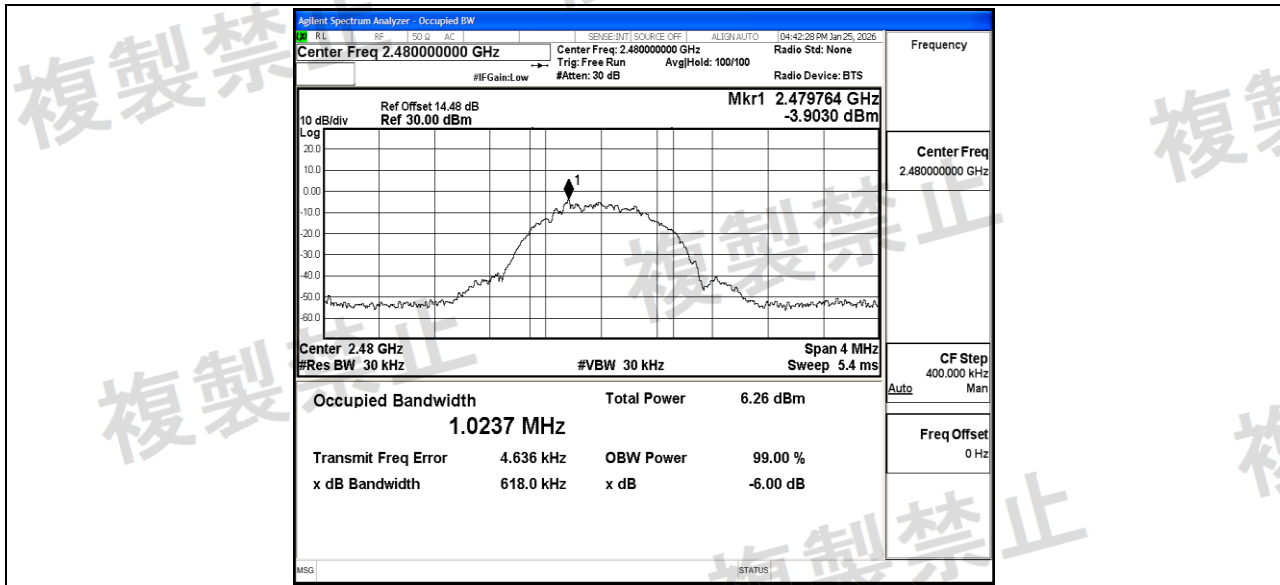
NTNV_BLE_Ant1_2402



NTNV_BLE_Ant1_2440



NTNV_BLE_Ant1_2480

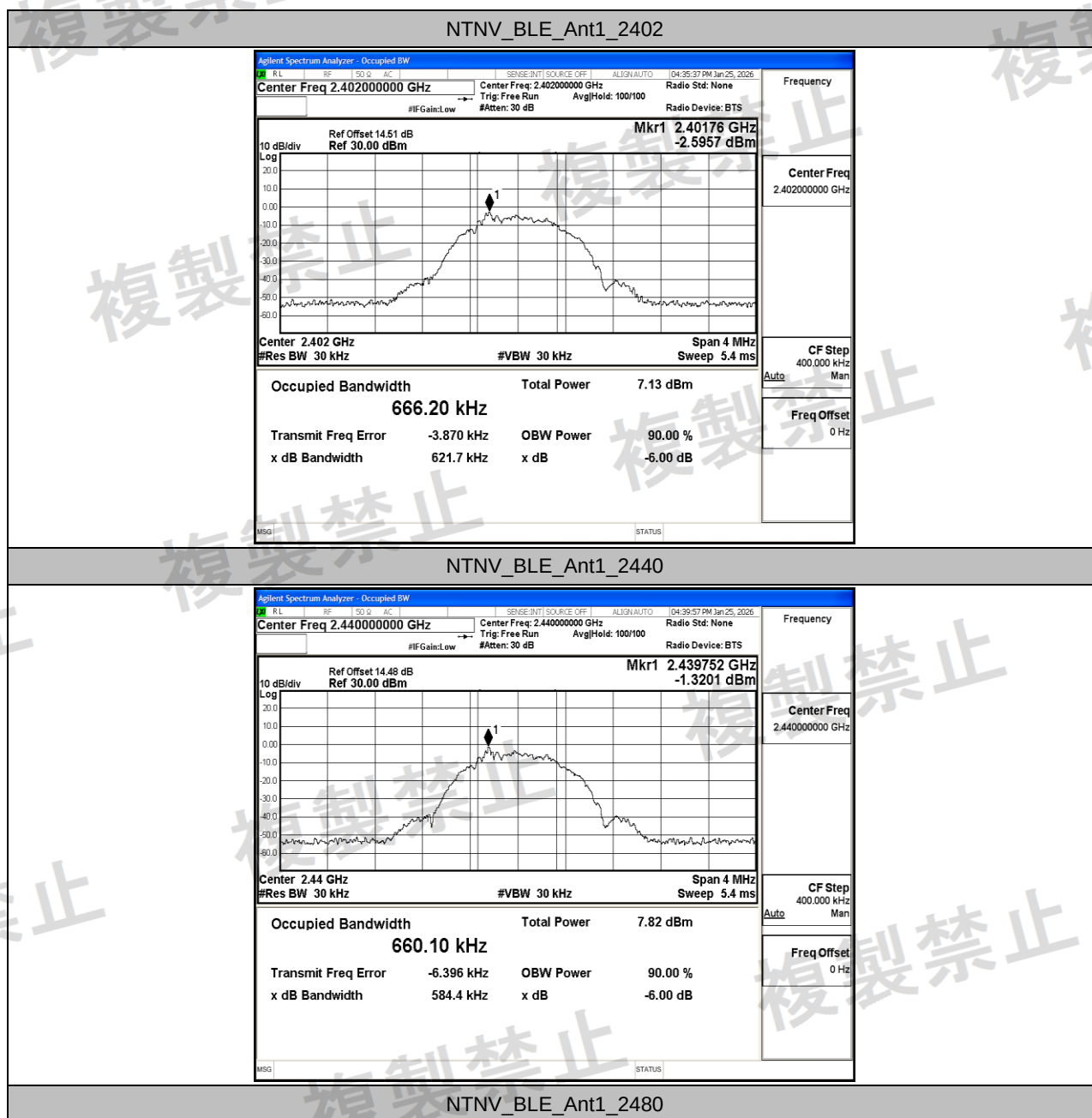


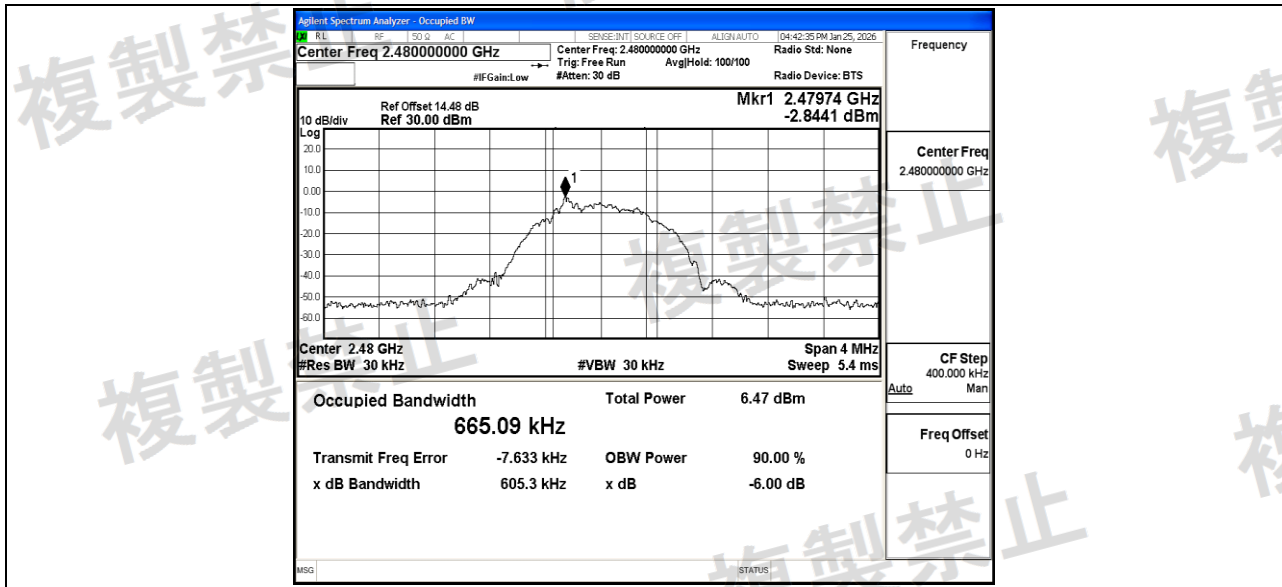
B.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE	Ant1	2402	0.666	---	PASS
			2440	0.660	---	PASS
			2480	0.665	---	PASS

Test Graphs



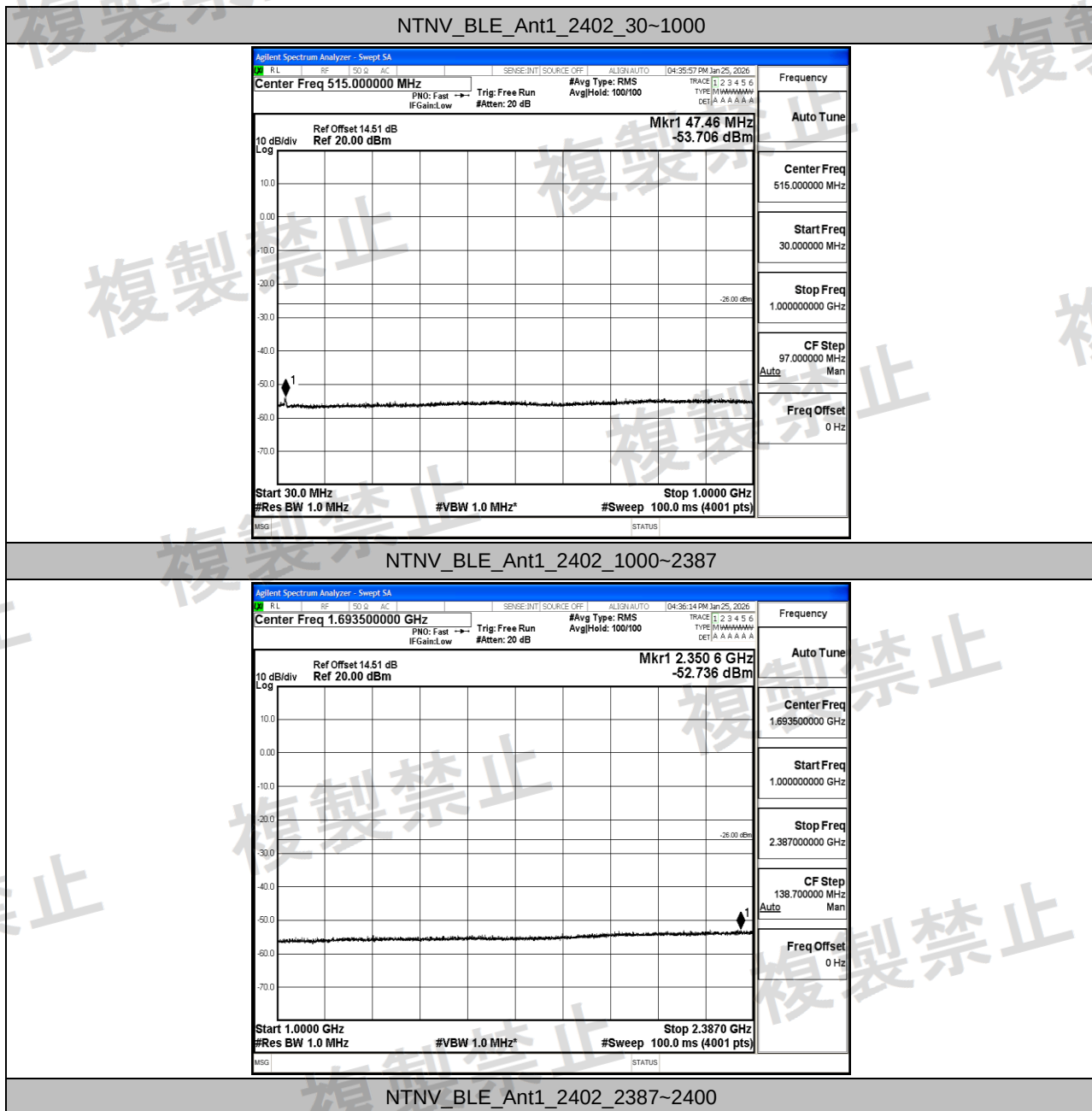


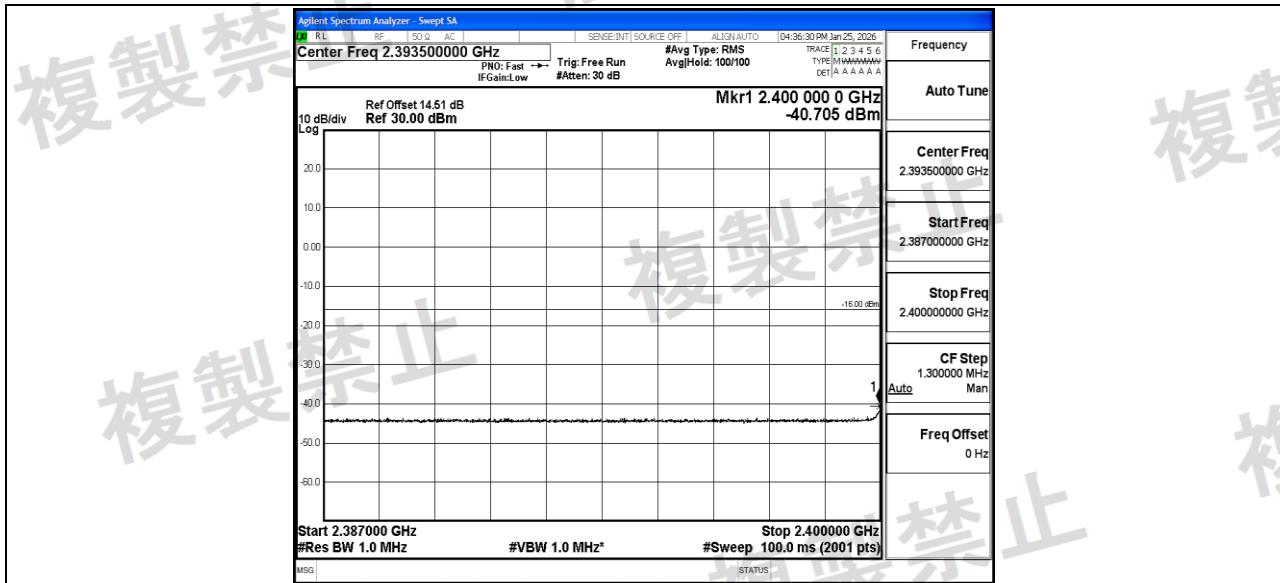
B.5 Spurious Emission of TX

Test Result

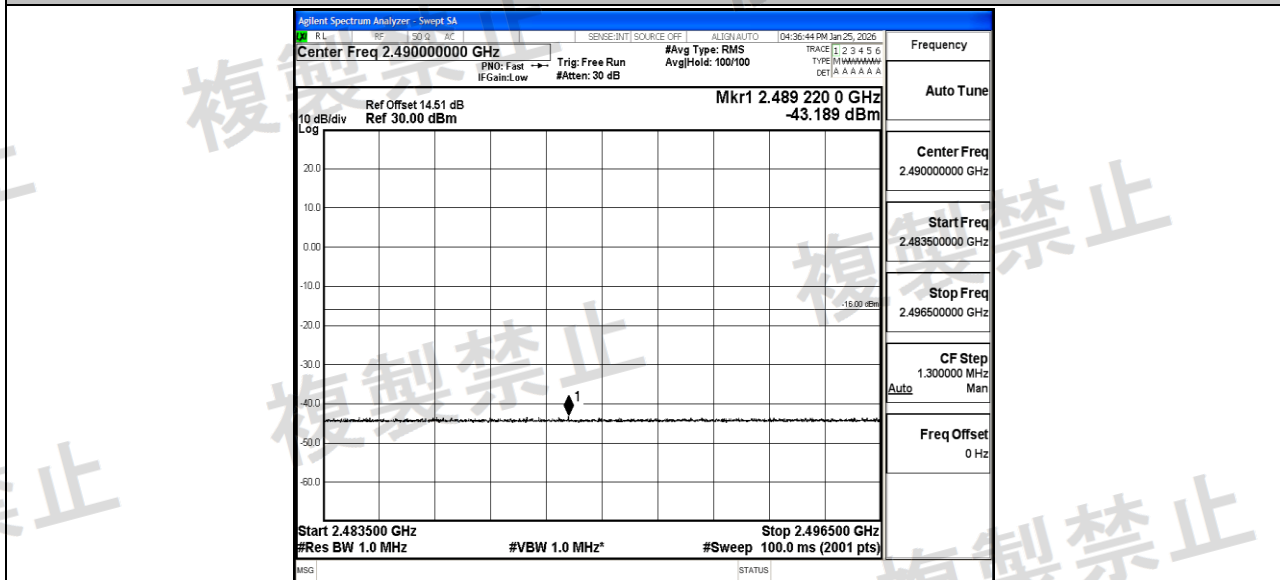
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE	Ant1	2402	30~1000	-53.71	≤-26	0.00426	≤2.5	PASS
				1000~2387	-52.74	≤-26	0.00532	≤2.5	PASS
				2387~2400	-40.71	≤-16	0.08492	≤25	PASS
				2483.5~2496.5	-43.19	≤-16	0.04797	≤25	PASS
				2496.5~13000	-45.32	≤-26	0.02938	≤2.5	PASS
			2440	30~1000	-53.71	≤-26	0.00426	≤2.5	PASS
				1000~2387	-52.92	≤-26	0.00511	≤2.5	PASS
				2387~2400	-43.52	≤-16	0.04446	≤25	PASS
				2483.5~2496.5	-43.26	≤-16	0.04721	≤25	PASS
				2496.5~13000	-44.69	≤-26	0.03396	≤2.5	PASS
			2480	30~1000	-53.79	≤-26	0.00418	≤2.5	PASS
				1000~2387	-52.68	≤-26	0.00540	≤2.5	PASS
				2387~2400	-43.37	≤-16	0.04603	≤25	PASS
				2483.5~2496.5	-43.43	≤-16	0.04539	≤25	PASS
				2496.5~13000	-45.71	≤-26	0.02685	≤2.5	PASS

Test Graphs

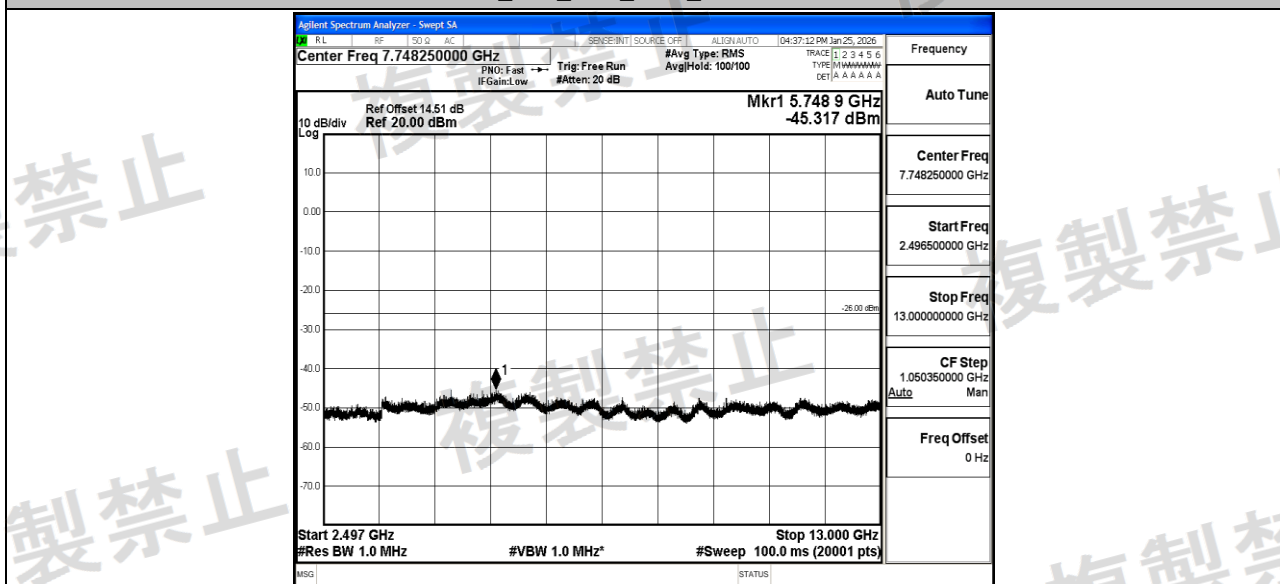




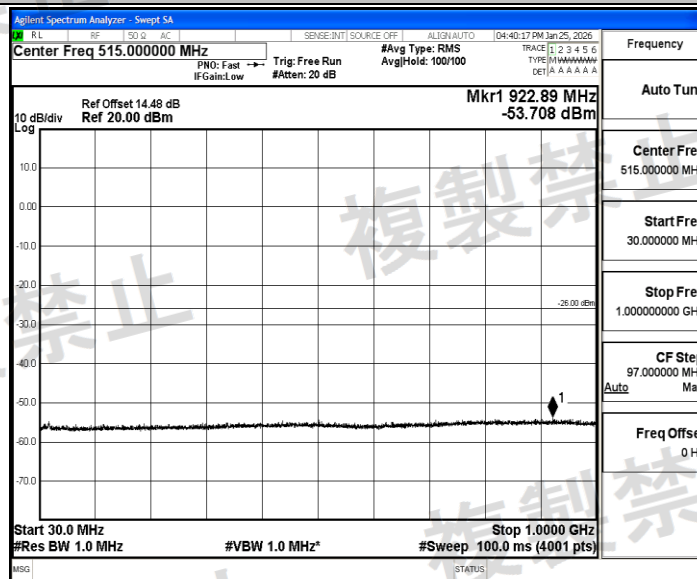
NTNV_BLE_Ant1_2402_2483.5~2496.5



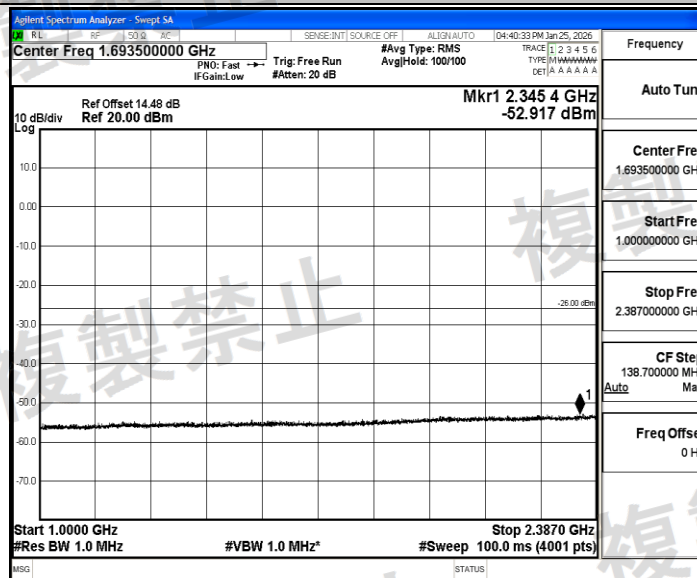
NTNV_BLE_Ant1_2402_2496.5~13000



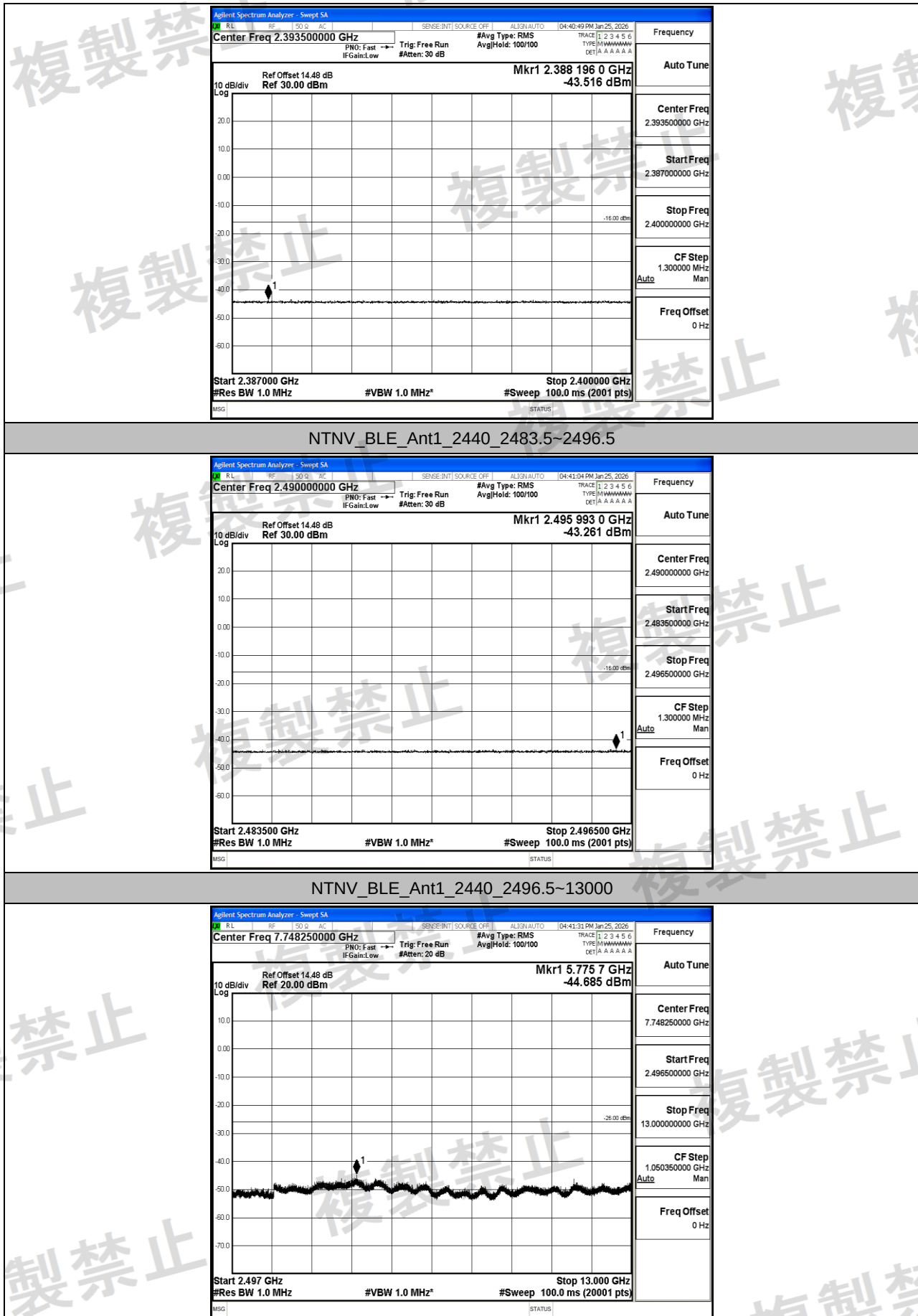
NTNV_BLE_Ant1_2440_30~1000



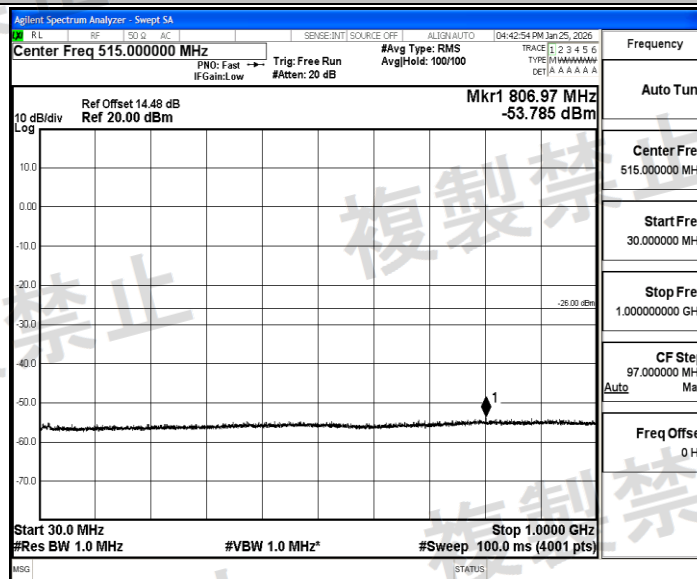
NTNV_BLE_Ant1_2440_1000~2387



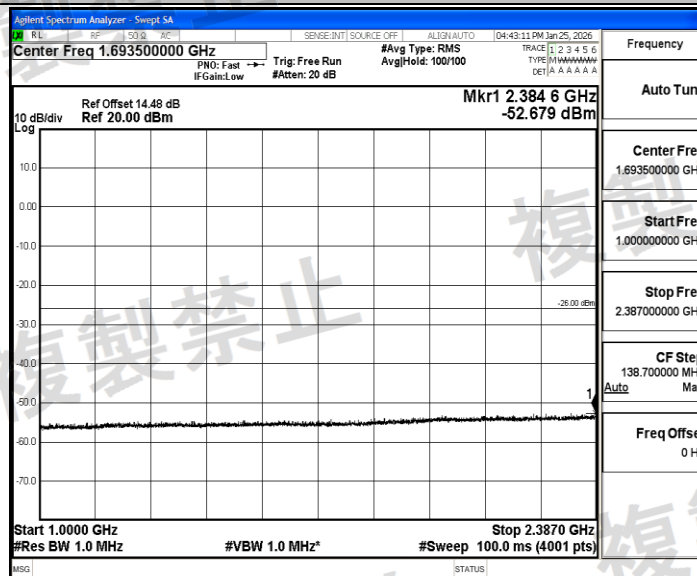
NTNV_BLE_Ant1_2440_2387~2400



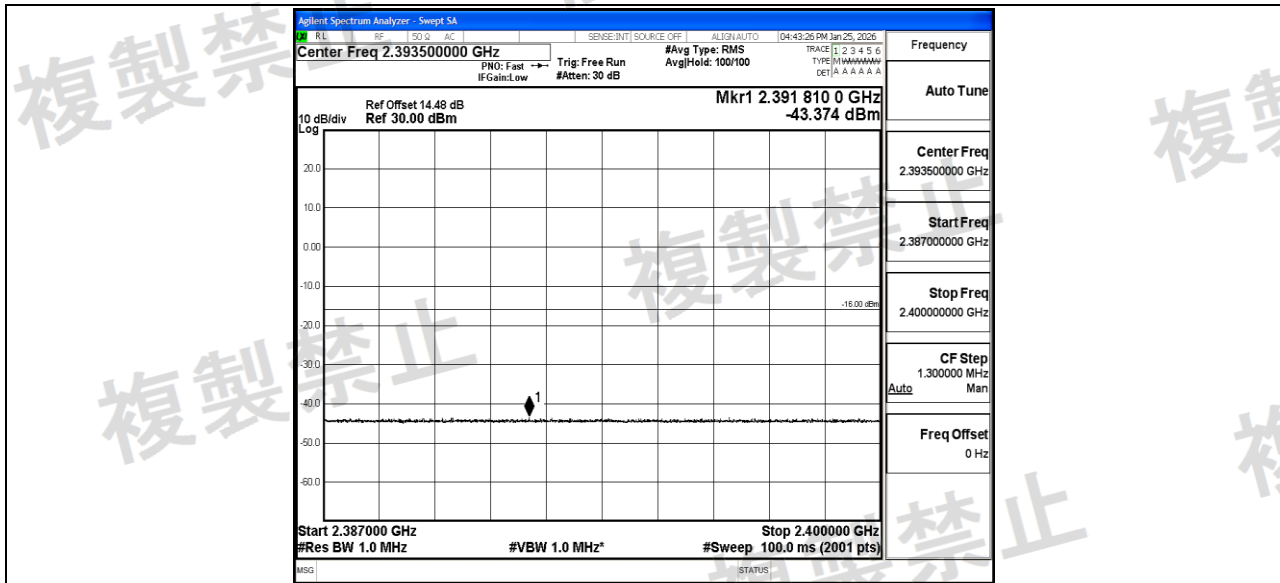
NTNV_BLE_Ant1_2480_30~1000



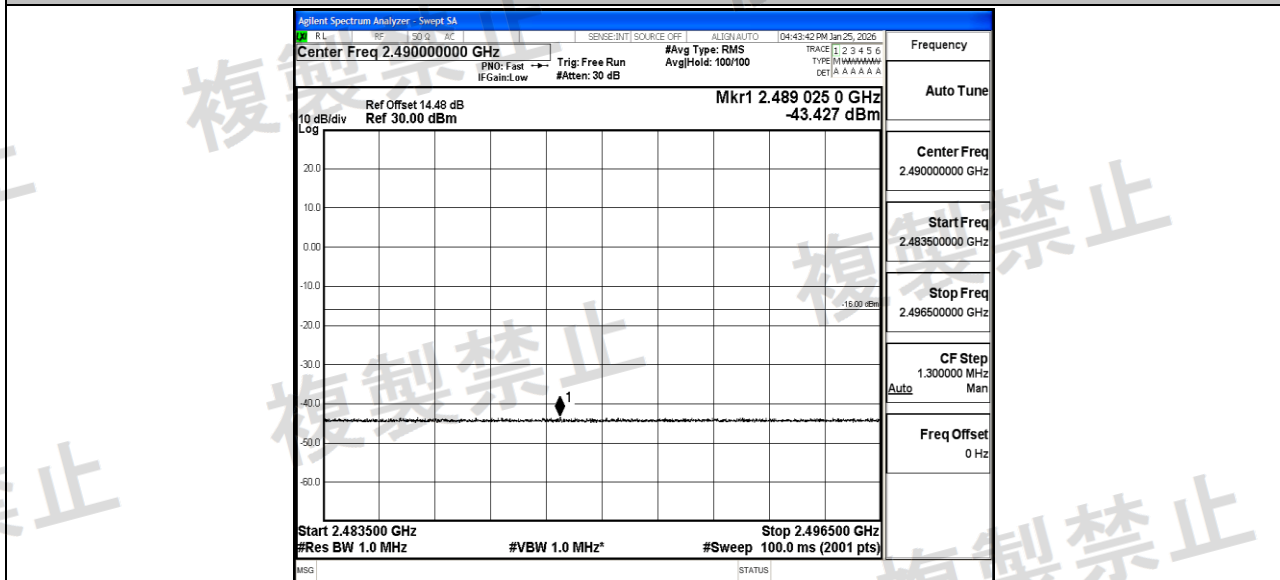
NTNV_BLE_Ant1_2480_1000~2387



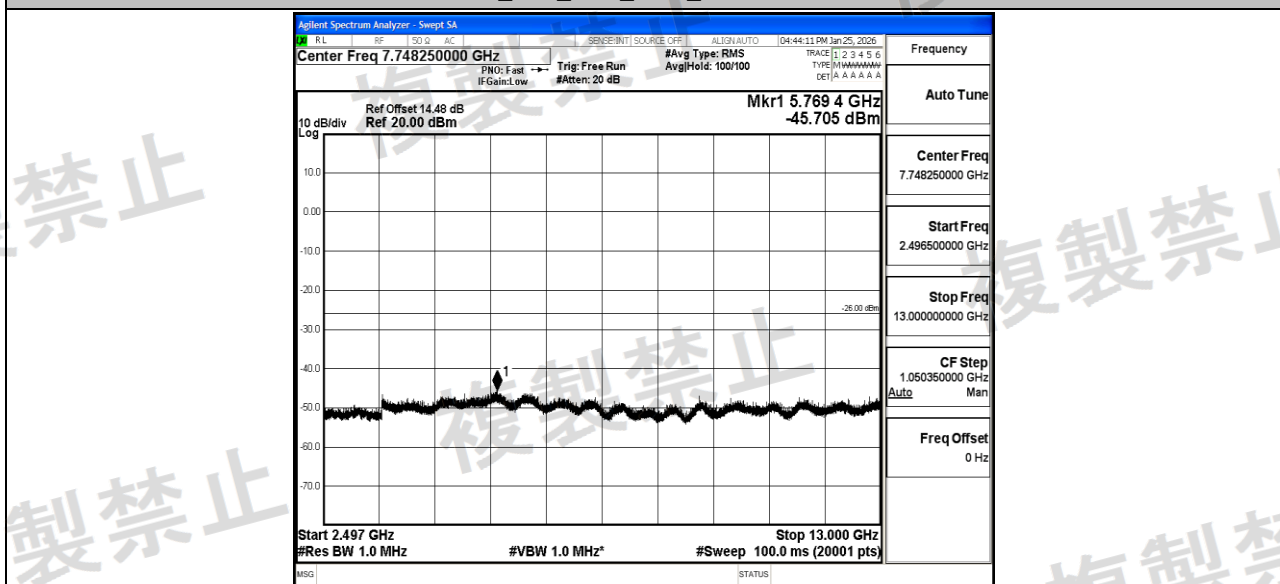
NTNV_BLE_Ant1_2480_2387~2400



NTNV_BLE_Ant1_2480_2483.5~2496.5



NTNV_BLE_Ant1_2480_2496.5~13000



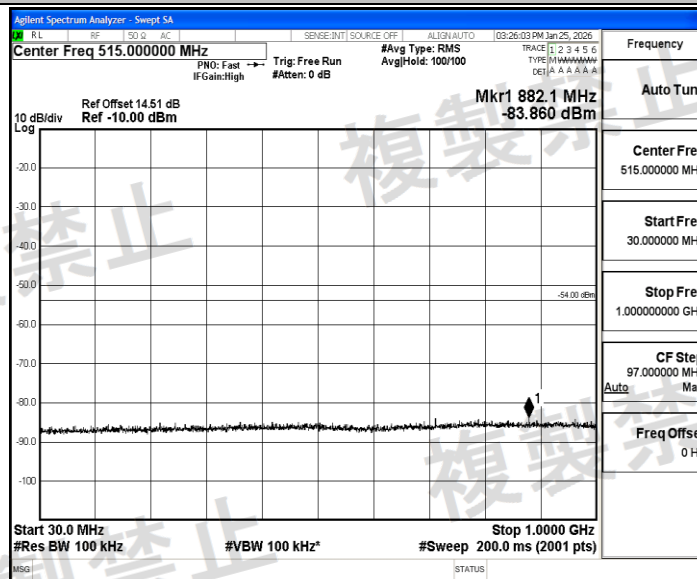
B.6 Spurious Emission of RX

Test Result

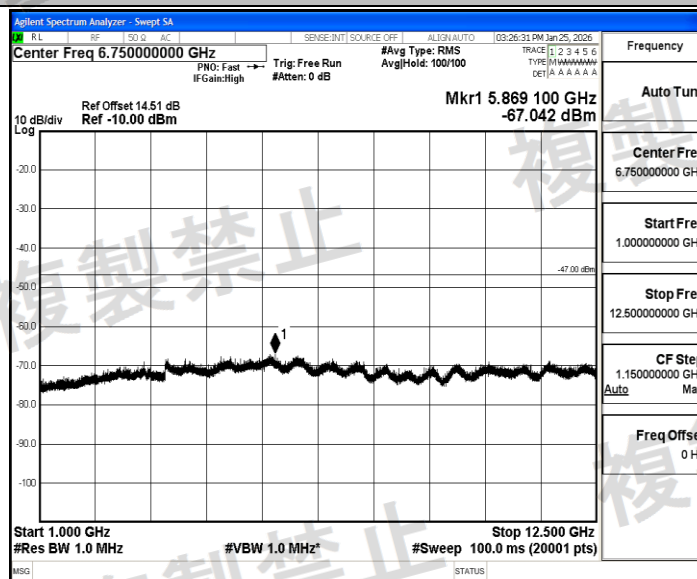
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE	Ant1	2402	30~1000	-83.86	≤-54	0.00411	≤4	PASS
				1000~12500	-67.04	≤-47	0.19770	≤20	PASS
			2440	30~1000	-84.14	≤-54	0.00385	≤4	PASS
				1000~12500	-67.17	≤-47	0.19187	≤20	PASS
			2480	30~1000	-84.32	≤-54	0.00370	≤4	PASS
				1000~12500	-67.27	≤-47	0.18750	≤20	PASS

Test Graphs

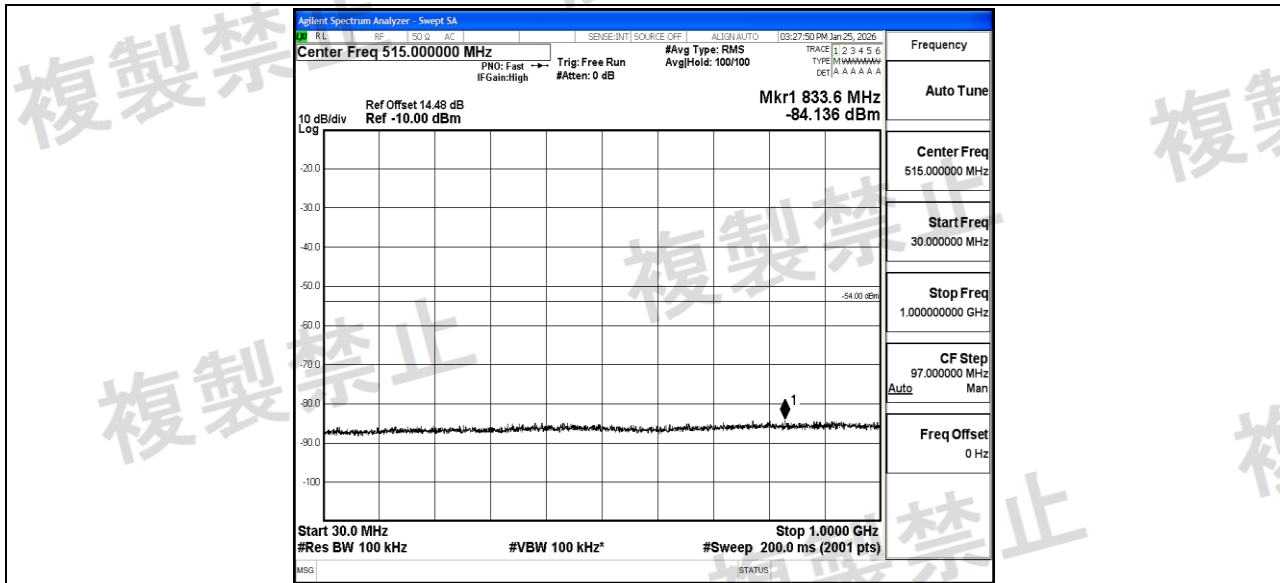
NTNV_BLE_Ant1_2402_30~1000



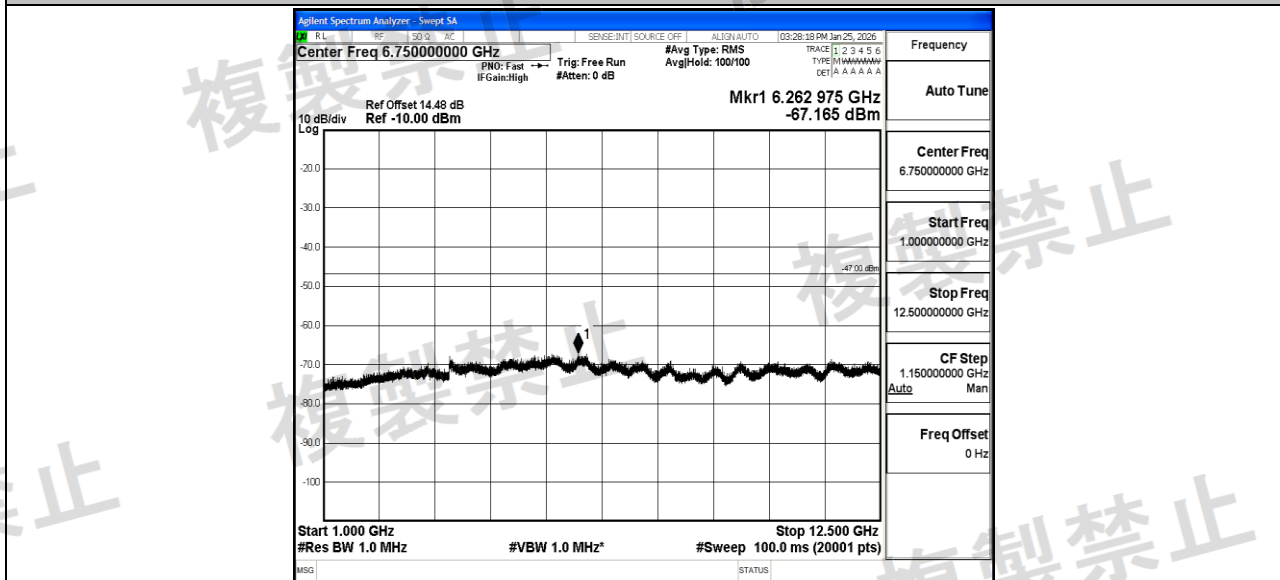
NTNV_BLE_Ant1_2402_1000~12500



NTNV_BLE_Ant1_2440_30~1000



NTNV_BLE_Ant1_2440_1000~12500



NTNV_BLE_Ant1_2480_30~1000

