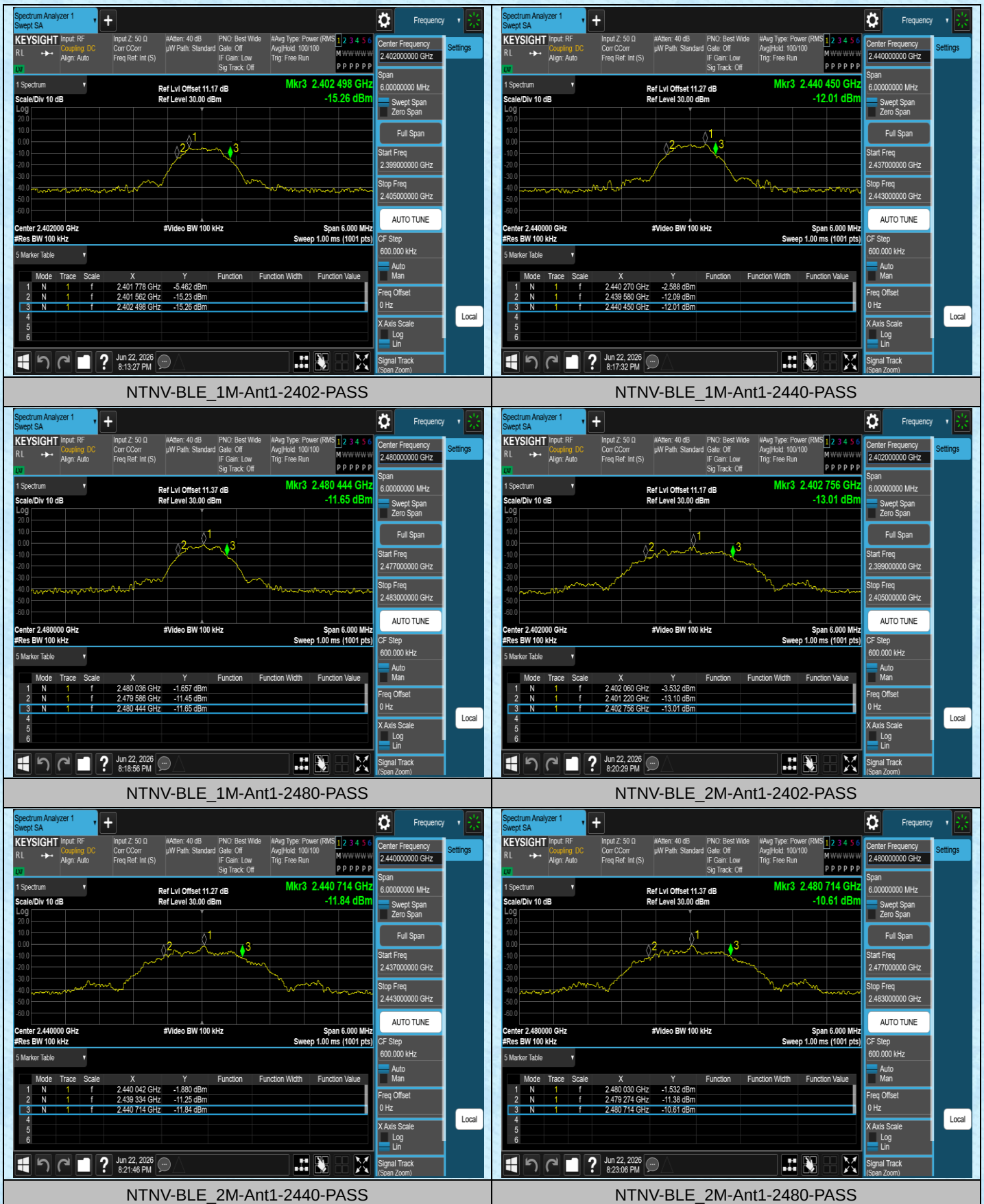


AppendixA: Frequency Error

Test Result

Test Condition	Test Mode	Antenna	Center Freq[MHz]	Frequency [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	2402.03	12.48959	±50	PASS
NTNV	BLE_1M	Ant1	2440	2440.015	6.14754	±50	PASS
NTNV	BLE_1M	Ant1	2480	2480.015	6.04839	±50	PASS
NTNV	BLE_2M	Ant1	2402	2401.988	-4.99584	±50	PASS
NTNV	BLE_2M	Ant1	2440	2440.024	9.83607	±50	PASS
NTNV	BLE_2M	Ant1	2480	2479.994	-2.41936	±50	PASS

Test Graphs



AppendixB: AntennaPower

Test Result

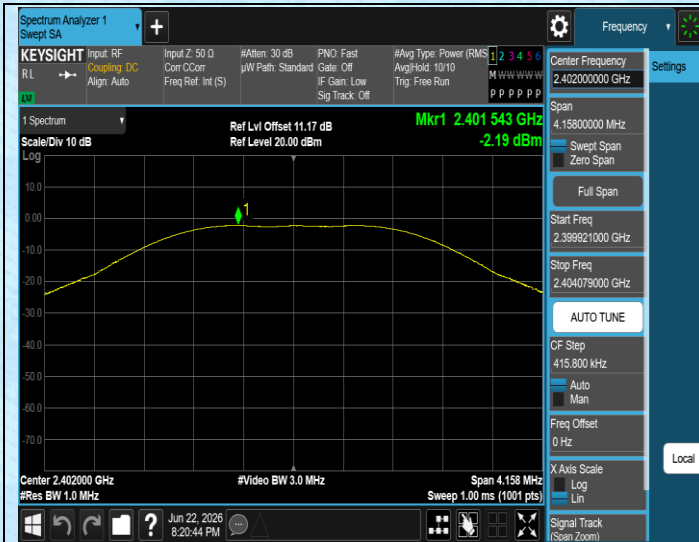
Test Condition	Test Mode	Antenna	Freq[MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	-3.22	0.4764	≤10	PASS
NTNV	BLE_1M	Ant1	2440	-2.67	0.5408	≤10	PASS
NTNV	BLE_1M	Ant1	2480	-2.33	0.5848	≤10	PASS
NTNV	BLE_2M	Ant1	2402	-4.27	0.3741	≤10	PASS
NTNV	BLE_2M	Ant1	2440	-3.85	0.4121	≤10	PASS
NTNV	BLE_2M	Ant1	2480	-3.52	0.4446	≤10	PASS

Test Condition	Test Mode	Antenna	Freq [MHz]	Power [mW]	Rated Power [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant1	2402	0.4764	0.5	-4.72	+20	PASS
NTNV	BLE_1M	Ant1	2440	0.5408	0.5	8.16	+20	PASS
NTNV	BLE_1M	Ant1	2480	0.5848	0.5	16.96	+20	PASS
NTNV	BLE_2M	Ant1	2402	0.3741	0.5	-25.18	+20	PASS
NTNV	BLE_2M	Ant1	2440	0.4121	0.5	-17.58	+20	PASS
NTNV	BLE_2M	Ant1	2480	0.4446	0.5	-11.08	+20	PASS

Test Condition	Test Mode	Antenna	Freq [MHz]	Result [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
NTNV	BLE_1M	Ant1	2402	-3.22	0.32	≤12.14	PASS
NTNV	BLE_1M	Ant1	2440	-2.67	0.87	≤12.14	PASS
NTNV	BLE_1M	Ant1	2480	-2.33	1.21	≤12.14	PASS
NTNV	BLE_2M	Ant1	2402	-4.27	-0.73	≤12.14	PASS
NTNV	BLE_2M	Ant1	2440	-3.85	-0.31	≤12.14	PASS
NTNV	BLE_2M	Ant1	2480	-3.52	0.02	≤12.14	PASS

Test Graphs





NTNV-BLE_2M-Ant1-2402-PASS



NTNV-BLE_2M-Ant1-2402-PASS



NTNV-BLE_2M-Ant1-2440-PASS



NTNV-BLE_2M-Ant1-2440-PASS



NTNV-BLE_2M-Ant1-2480-PASS

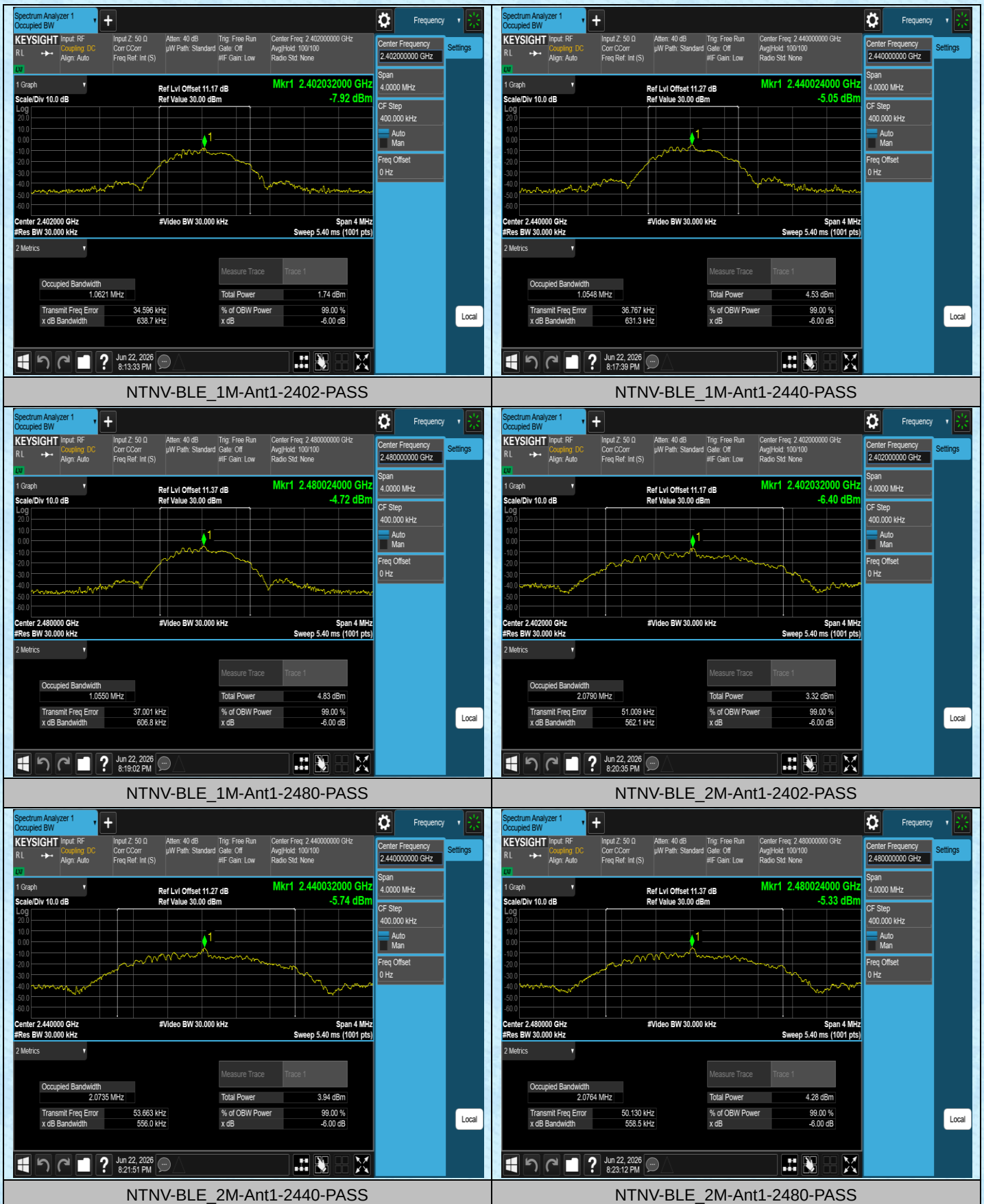


NTNV-BLE_2M-Ant1-2480-PASS

AppendixC: Occupied Bandwidth**Test Result**

Test Condition	Test Mode	Antenna	Freq[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.062	≤26	PASS
NTNV	BLE_1M	Ant1	2440	1.055	≤26	PASS
NTNV	BLE_1M	Ant1	2480	1.055	≤26	PASS
NTNV	BLE_2M	Ant1	2402	2.079	≤26	PASS
NTNV	BLE_2M	Ant1	2440	2.074	≤26	PASS
NTNV	BLE_2M	Ant1	2480	2.076	≤26	PASS

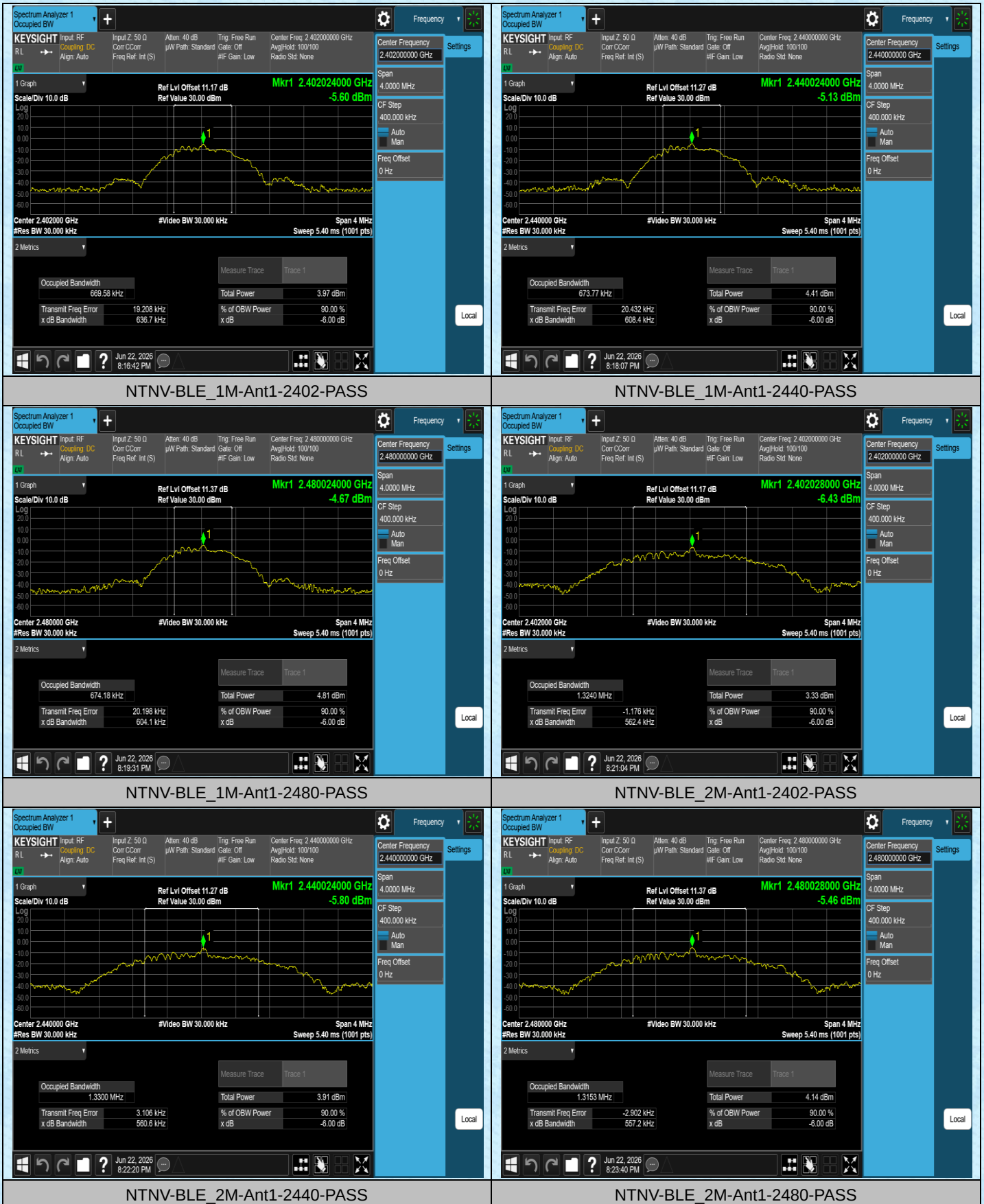
Test Graphs



AppendixD: Spread Bandwidth**Test Result**

Test Condition	Test Mode	Antenna	Freq[MHz]	Result [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.670	PASS
NTNV	BLE_1M	Ant1	2440	0.674	PASS
NTNV	BLE_1M	Ant1	2480	0.674	PASS
NTNV	BLE_2M	Ant1	2402	1.324	PASS
NTNV	BLE_2M	Ant1	2440	1.330	PASS
NTNV	BLE_2M	Ant1	2480	1.315	PASS

Test Graphs

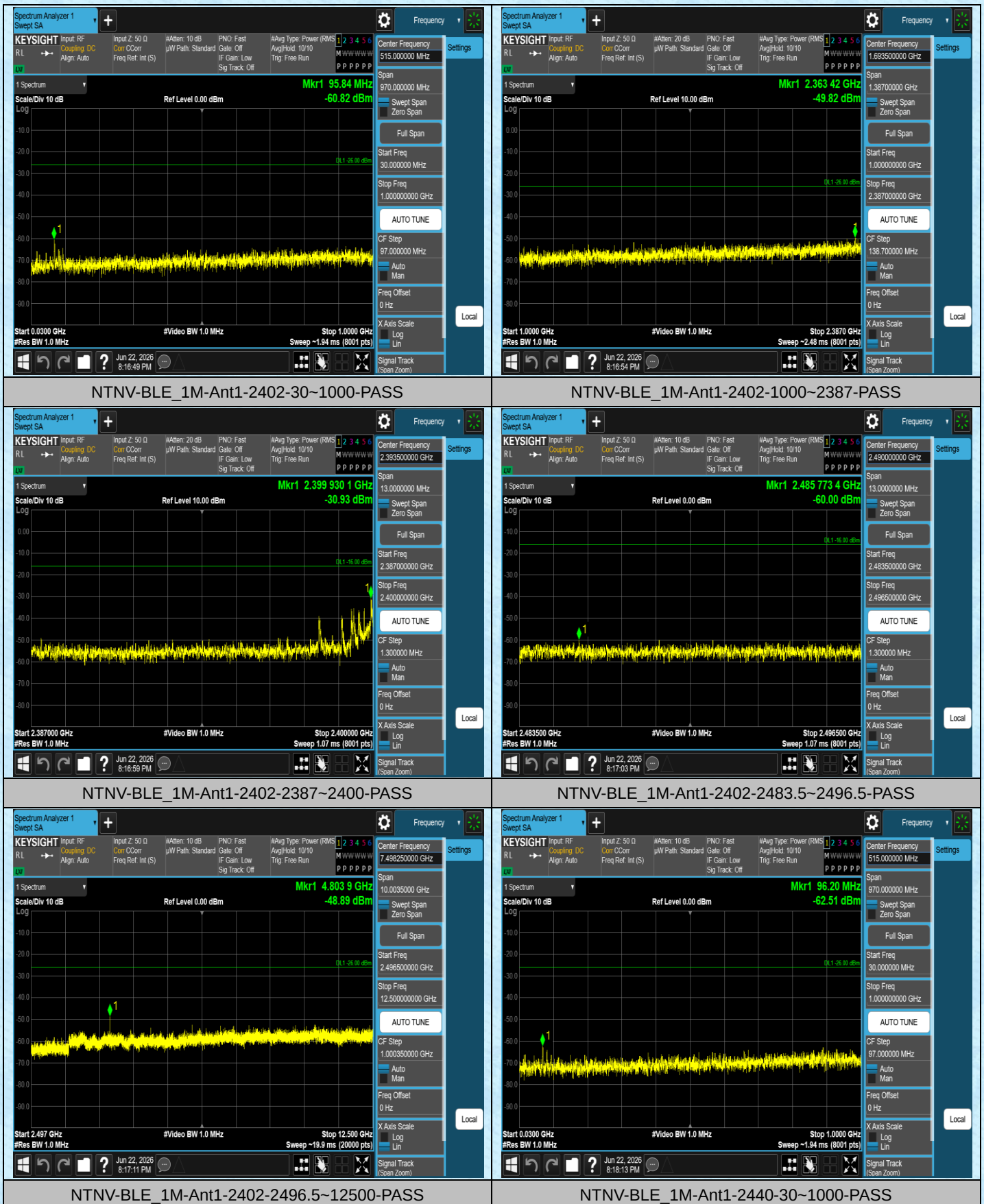


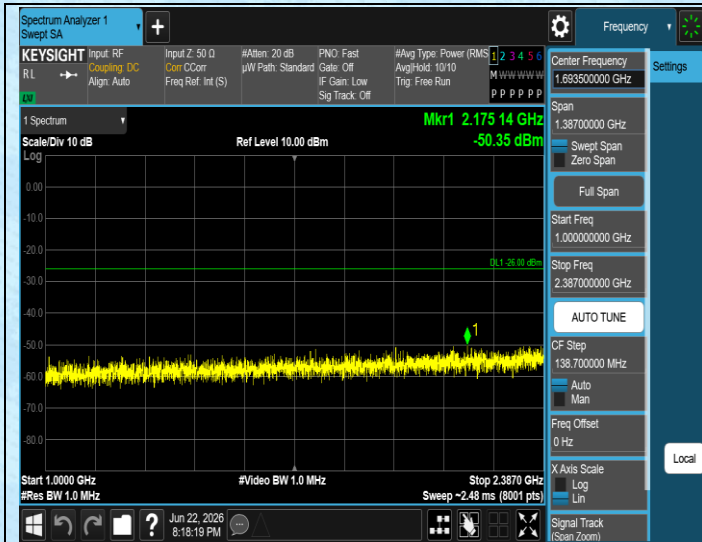
AppendixE:Spurious Emission of TX

Test Result

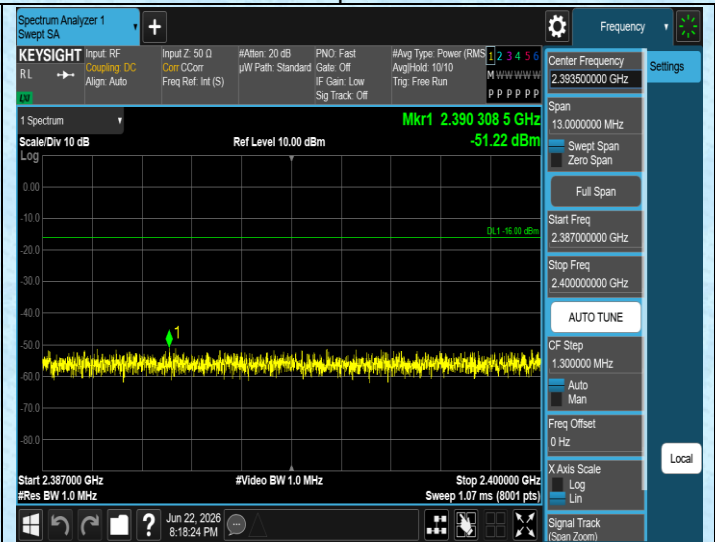
Test Condition	Test Mode	Antenna	Freq[MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	95.84	-60.82	≤-26	0.00083	≤2.5	PASS
NTNV	BLE_1M	Ant1	2402	1000~2387	2363.42	-49.82	≤-26	0.01042	≤2.5	PASS
NTNV	BLE_1M	Ant1	2402	2387~2400	2399.93	-30.93	≤-16	0.80724	≤25	PASS
NTNV	BLE_1M	Ant1	2402	2483.5~2496.5	2485.77	-60.00	≤-16	0.00100	≤25	PASS
NTNV	BLE_1M	Ant1	2402	2496.5~12500	4803.92	-48.89	≤-26	0.01291	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	30~1000	96.20	-62.51	≤-26	0.00056	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	1000~2387	2175.14	-50.35	≤-26	0.00923	≤2.5	PASS
NTNV	BLE_1M	Ant1	2440	2387~2400	2390.31	-51.22	≤-16	0.00755	≤25	PASS
NTNV	BLE_1M	Ant1	2440	2483.5~2496.5	2490.79	-59.56	≤-16	0.00111	≤25	PASS
NTNV	BLE_1M	Ant1	2440	2496.5~12500	4880.45	-49.95	≤-26	0.01012	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	95.84	-62.28	≤-26	0.00059	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	1000~2387	2149.48	-50.30	≤-26	0.00933	≤2.5	PASS
NTNV	BLE_1M	Ant1	2480	2387~2400	2394.18	-50.29	≤-16	0.00935	≤25	PASS
NTNV	BLE_1M	Ant1	2480	2483.5~2496.5	2484.55	-42.42	≤-16	0.05728	≤25	PASS
NTNV	BLE_1M	Ant1	2480	2496.5~12500	9919.47	-50.62	≤-26	0.00867	≤2.5	PASS
NTNV	BLE_2M	Ant1	2402	30~1000	108.09	-62.40	≤-26	0.00058	≤2.5	PASS
NTNV	BLE_2M	Ant1	2402	1000~2387	2333.25	-49.60	≤-26	0.01096	≤2.5	PASS
NTNV	BLE_2M	Ant1	2402	2387~2400	2399.98	-24.86	≤-16	3.26588	≤25	PASS
NTNV	BLE_2M	Ant1	2402	2483.5~2496.5	2486.01	-59.56	≤-16	0.00111	≤25	PASS
NTNV	BLE_2M	Ant1	2402	2496.5~12500	4802.92	-49.78	≤-26	0.01052	≤2.5	PASS
NTNV	BLE_2M	Ant1	2440	30~1000	96.08	-62.56	≤-26	0.00055	≤2.5	PASS
NTNV	BLE_2M	Ant1	2440	1000~2387	2387.00	-50.05	≤-26	0.00989	≤2.5	PASS
NTNV	BLE_2M	Ant1	2440	2387~2400	2391.32	-49.12	≤-16	0.01225	≤25	PASS
NTNV	BLE_2M	Ant1	2440	2483.5~2496.5	2485.98	-59.73	≤-16	0.00106	≤25	PASS
NTNV	BLE_2M	Ant1	2440	2496.5~12500	4878.95	-50.98	≤-26	0.00798	≤2.5	PASS
NTNV	BLE_2M	Ant1	2480	30~1000	108.09	-63.05	≤-26	0.00050	≤2.5	PASS
NTNV	BLE_2M	Ant1	2480	1000~2387	2279.51	-50.01	≤-26	0.00998	≤2.5	PASS
NTNV	BLE_2M	Ant1	2480	2387~2400	2393.20	-49.86	≤-16	0.01033	≤25	PASS
NTNV	BLE_2M	Ant1	2480	2483.5~2496.5	2483.52	-40.80	≤-16	0.08318	≤25	PASS
NTNV	BLE_2M	Ant1	2480	2496.5~12500	12402.46	-49.74	≤-26	0.01062	≤2.5	PASS

Test Graphs





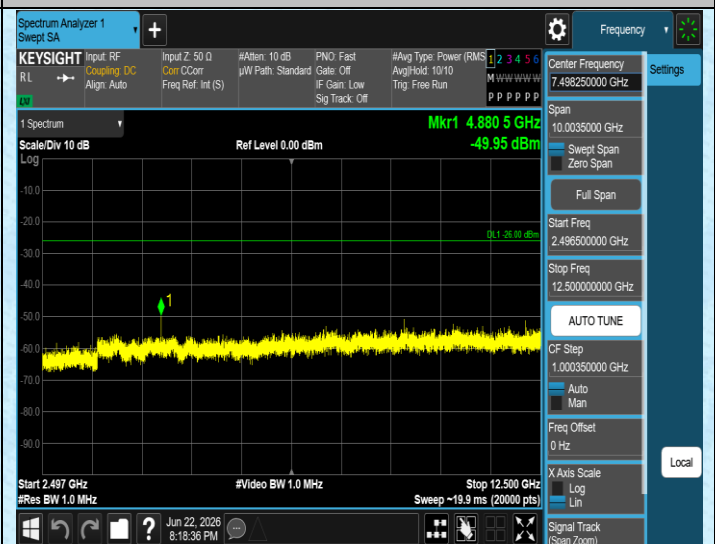
NTNV-BLE_1M-Ant1-2440-1000~2387-PASS



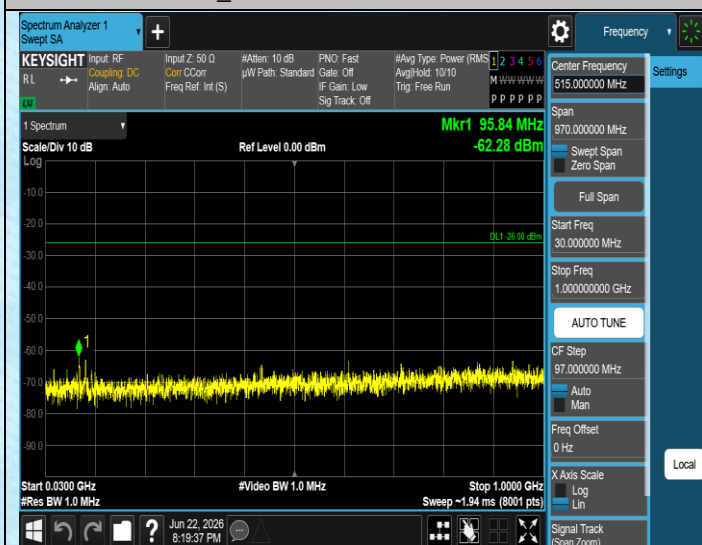
NTNV-BLE_1M-Ant1-2440-2387~2400-PASS



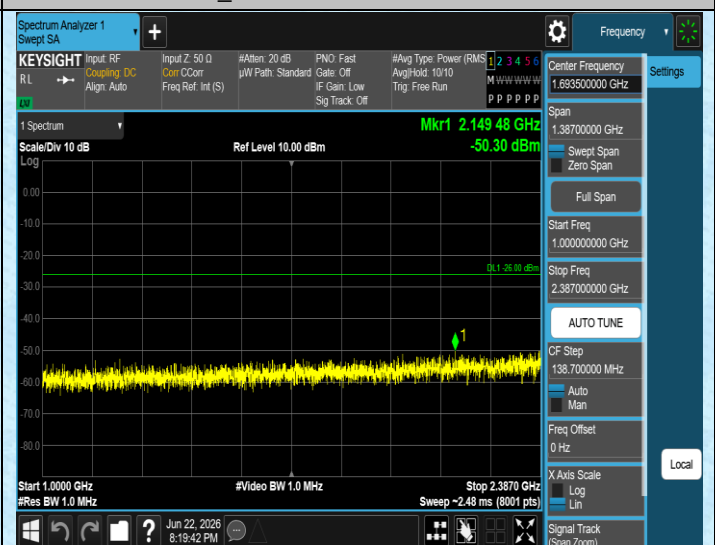
NTNV-BLE_1M-Ant1-2440-2483.5~2496.5-PASS



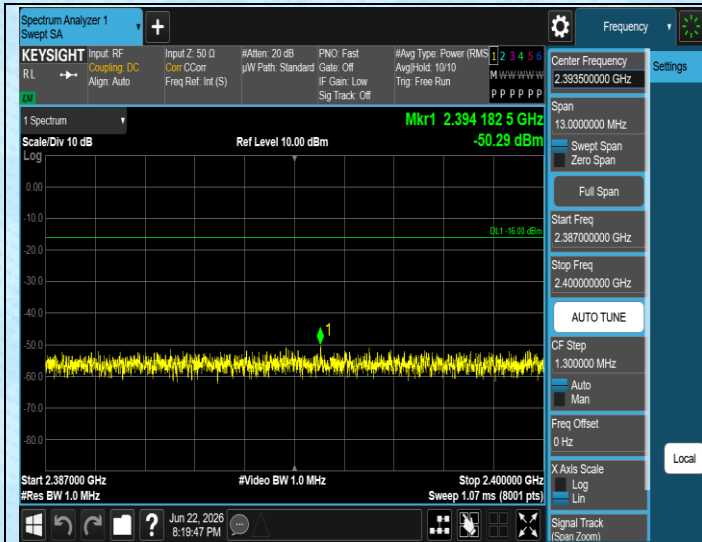
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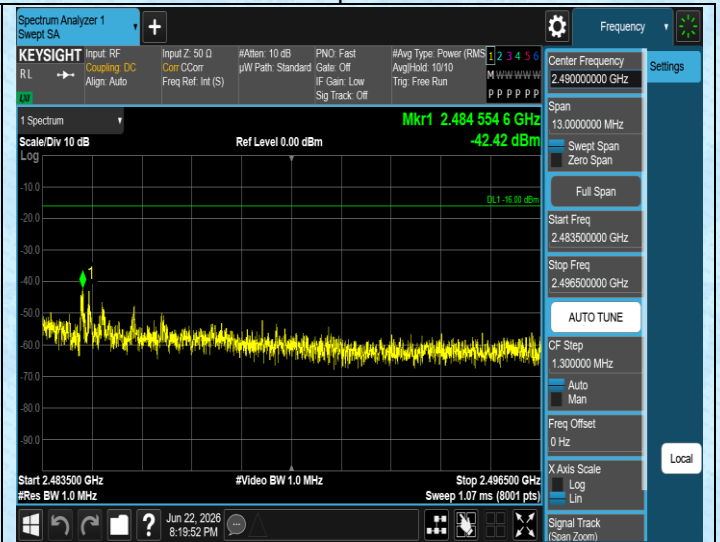
NTNV-BLE_1M-Ant1-2480-30~1000-PASS



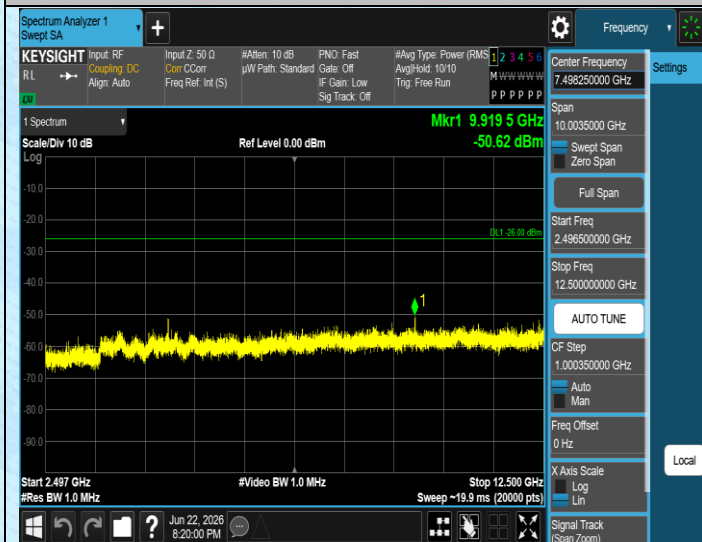
NTNV-BLE_1M-Ant1-2480-1000~2387-PASS



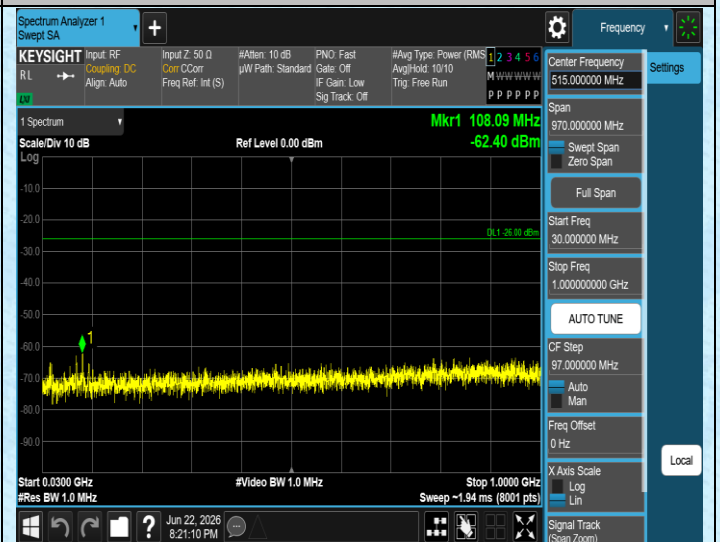
NTNV-BLE_1M-Ant1-2480-2387~2400-PASS



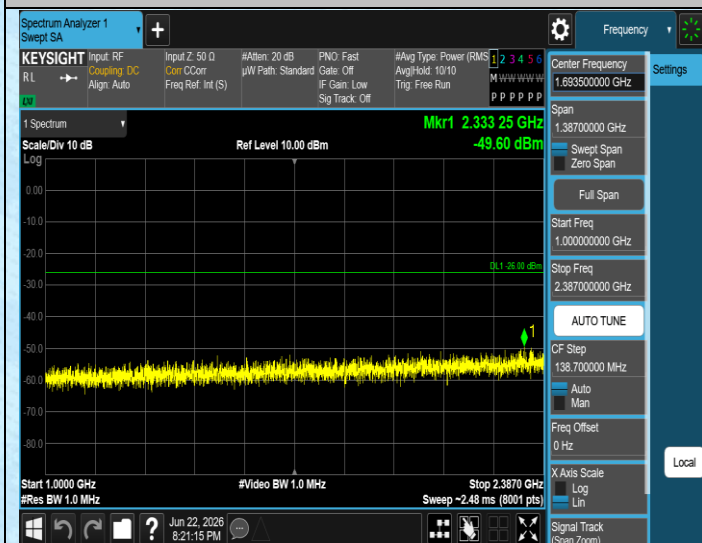
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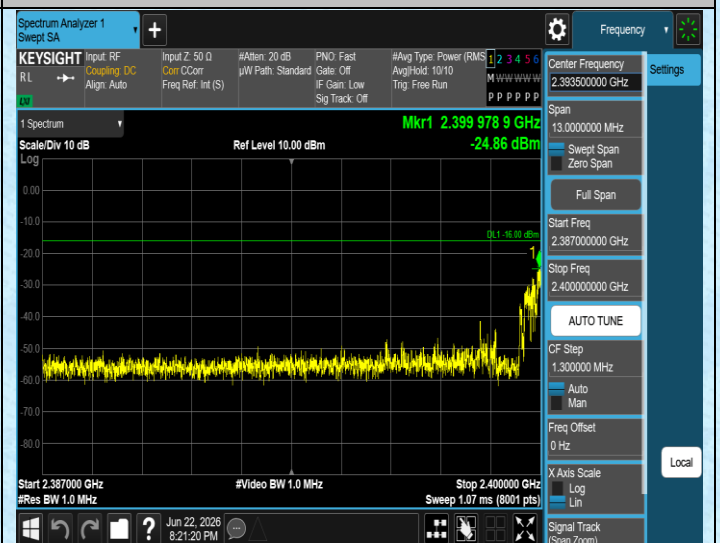
NTNV-BLE_1M-Ant1-2480-2496.5~12500-PASS



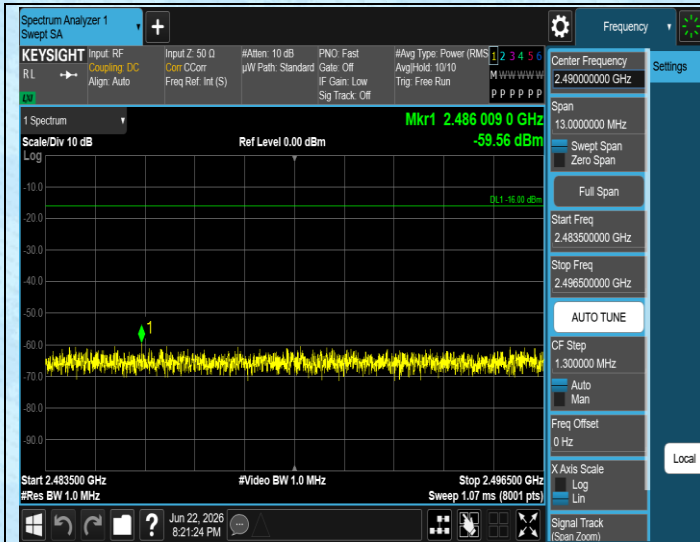
NTNV-BLE_2M-Ant1-2402-30~1000-PASS



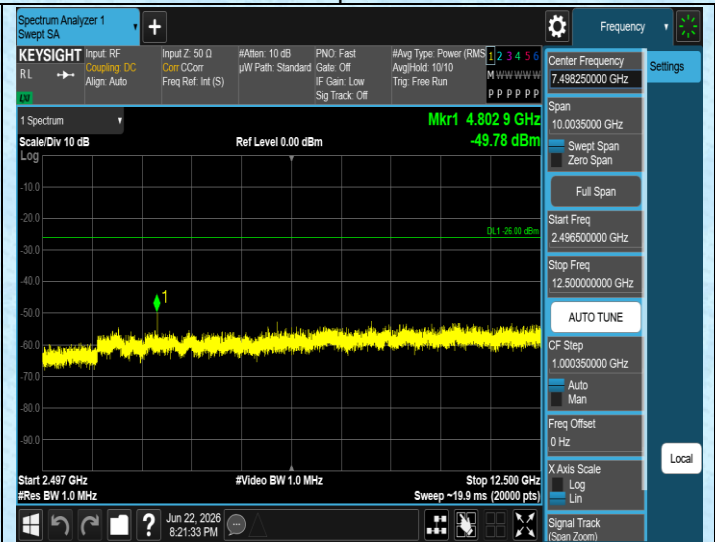
NTNV-BLE_2M-Ant1-2402-1000~2387-PASS



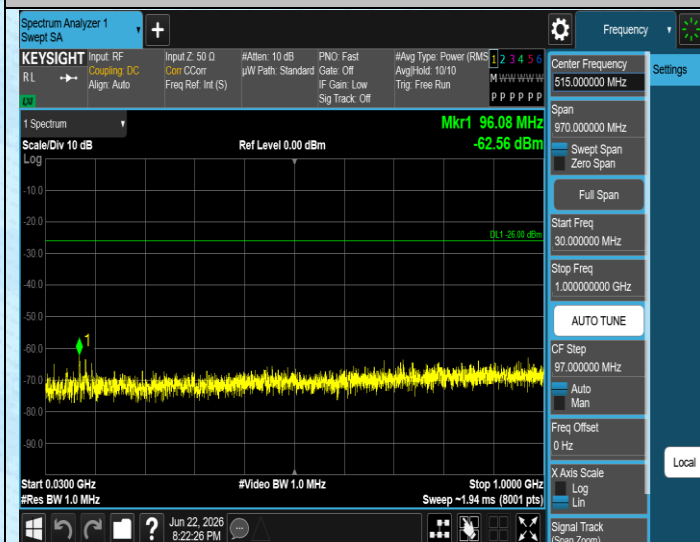
NTNV-BLE_2M-Ant1-2402-2387~2400-PASS



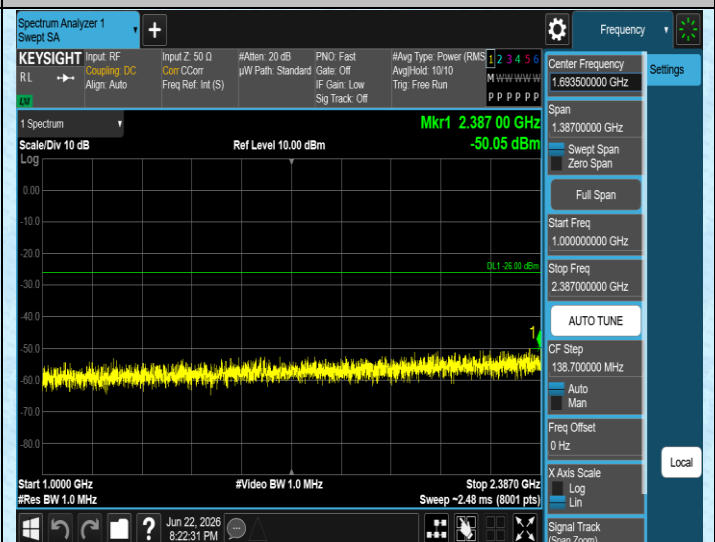
NTNV-BLE_2M-Ant1-2402-2483.5~2496.5-PASS



NTNV-BLE_2M-Ant1-2402-2496.5~12500-PASS



NTNV-BLE_2M-Ant1-2440-30~1000-PASS



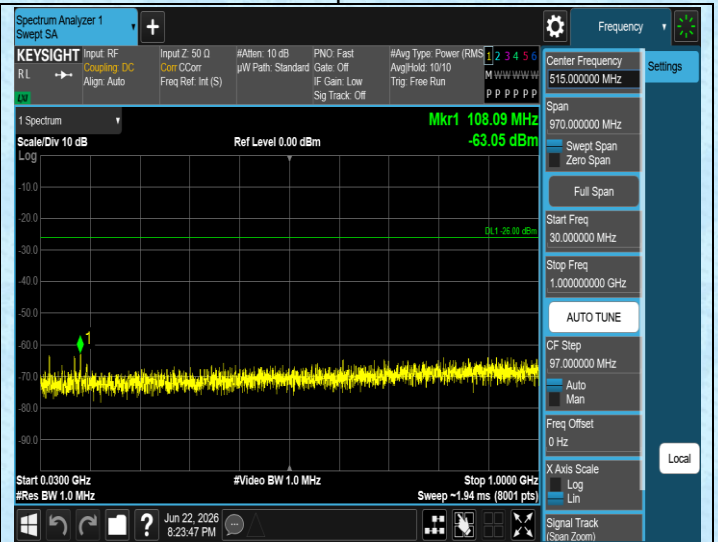
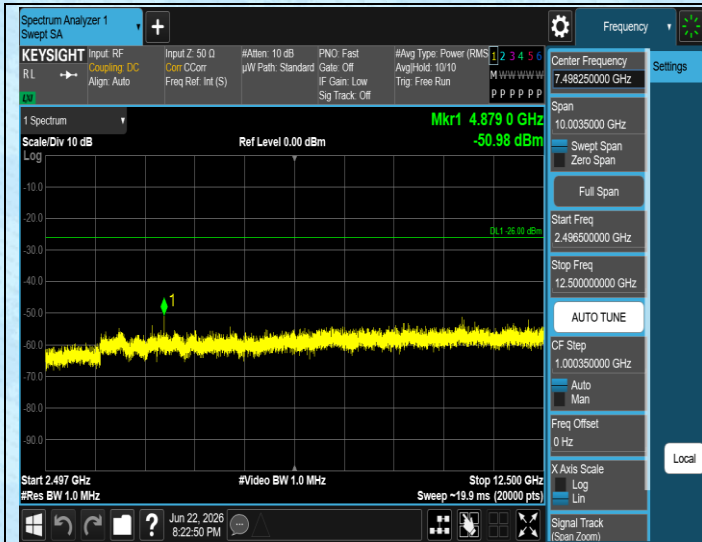
NTNV-BLE_2M-Ant1-2440-1000~2387-PASS



NTNV-BLE_2M-Ant1-2440-2387~2400-PASS

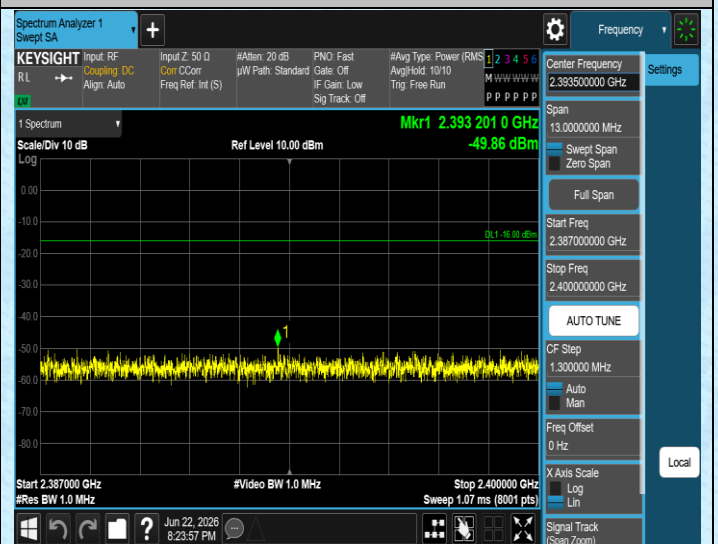
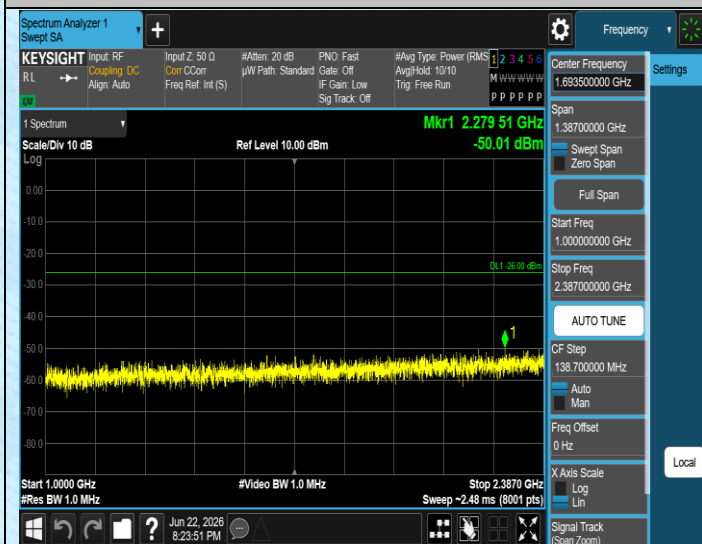


NTNV-BLE_2M-Ant1-2440-2483.5~2496.5-PASS



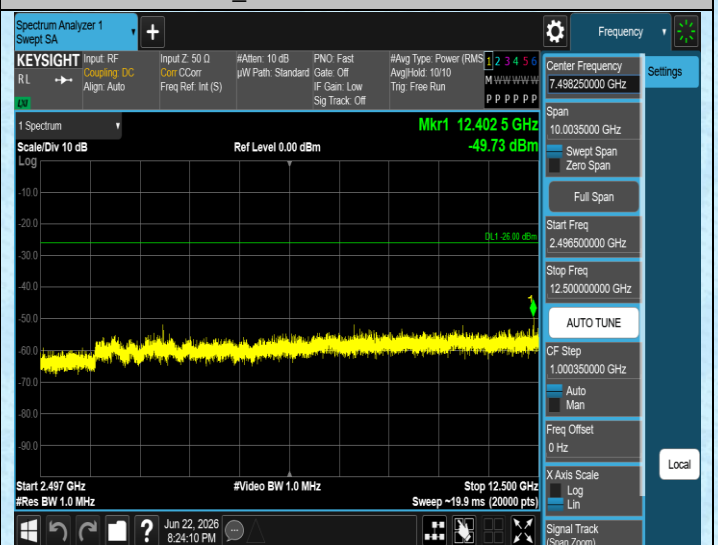
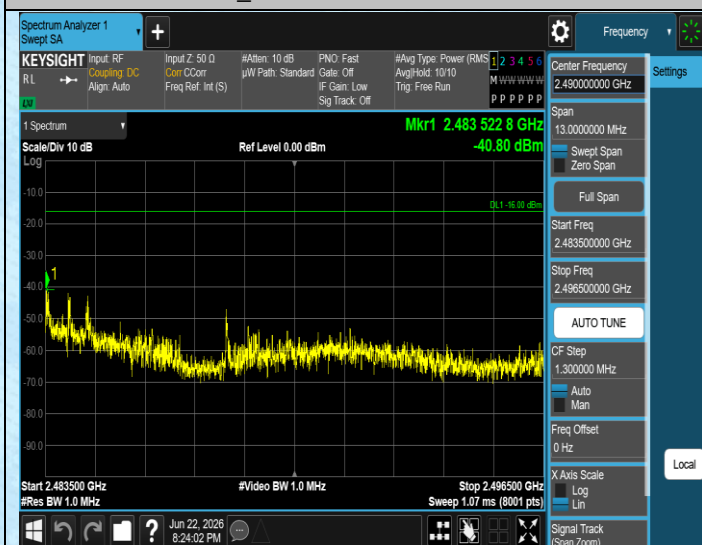
NTNV-BLE_2M-Ant1-2440-2496.5~12500-PASS

NTNV-BLE_2M-Ant1-2480-30~1000-PASS



NTNV-BLE_2M-Ant1-2480-1000~2387-PASS

NTNV-BLE_2M-Ant1-2480-2387~2400-PASS



NTNV-BLE_2M-Ant1-2480-2483.5~2496.5-PASS

NTNV-BLE_2M-Ant1-2480-2496.5~12500-PASS

AppendixF:Spurious Emission of RX

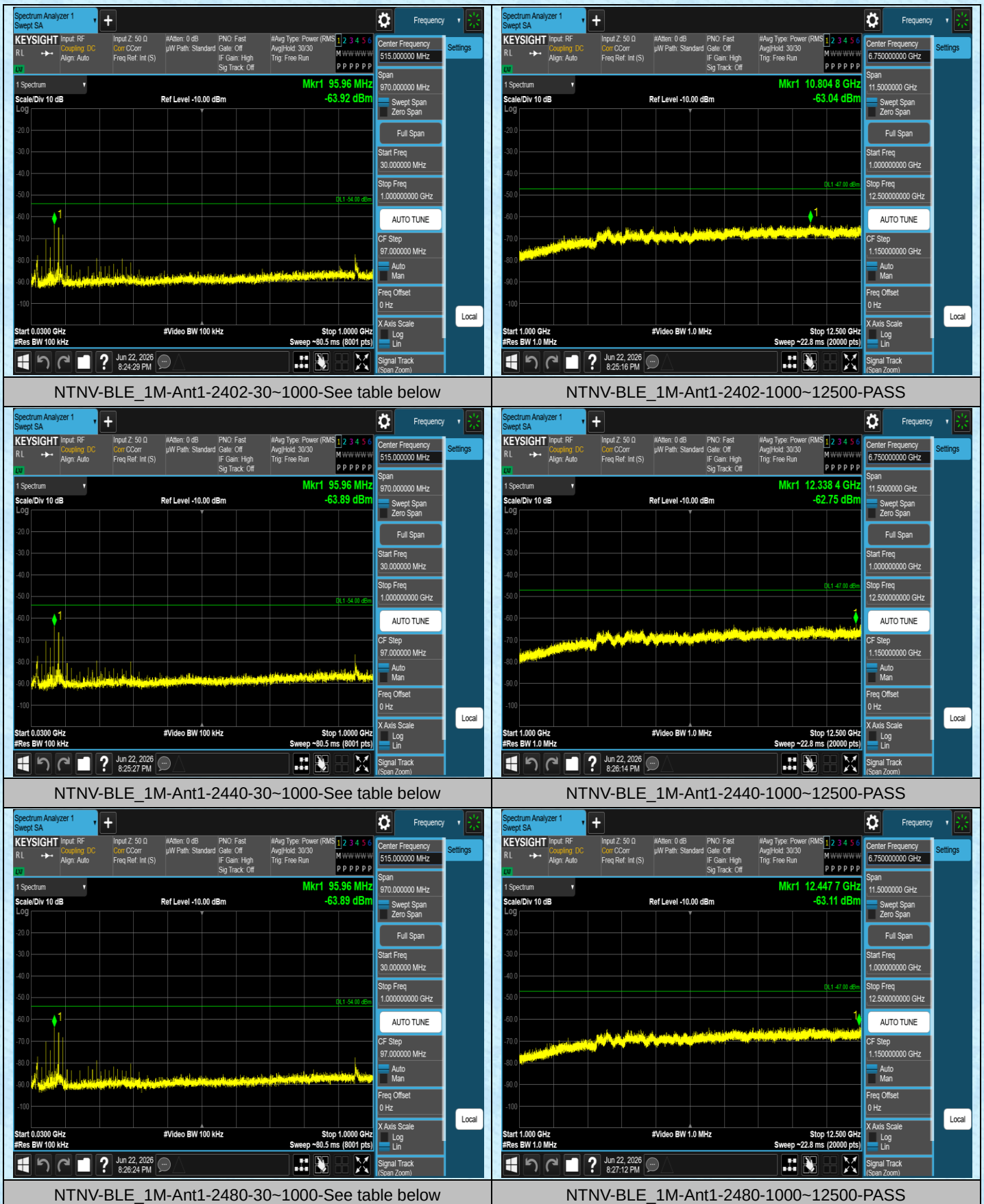
Test Result

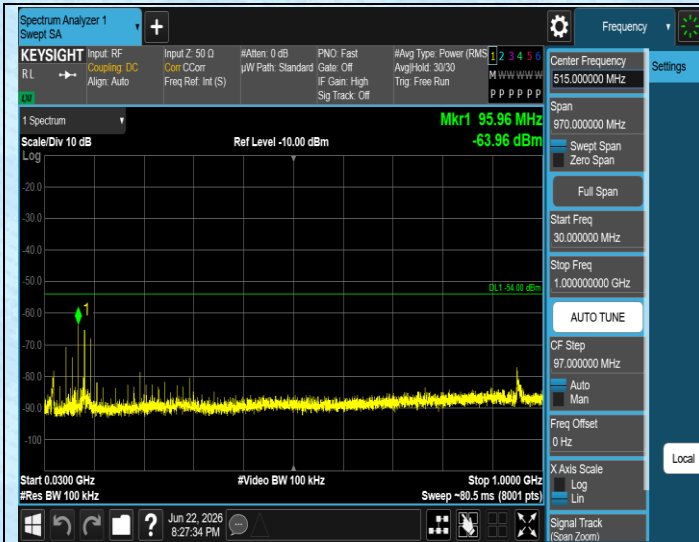
Test Condition	Test Mode	Antenna	Freq[MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	95.96	-63.92	≤-54	0.40551	≤4	See table below
NTNV	BLE_1M	Ant1	2402	1000~12500	10804.82	-63.04	≤-47	0.49659	≤20	PASS
NTNV	BLE_1M	Ant1	2440	30~1000	95.96	-63.90	≤-54	0.40738	≤4	See table below
NTNV	BLE_1M	Ant1	2440	1000~12500	12338.42	-62.75	≤-47	0.53088	≤20	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	95.96	-63.89	≤-54	0.40832	≤4	See table below
NTNV	BLE_1M	Ant1	2480	1000~12500	12447.67	-63.11	≤-47	0.48865	≤20	PASS
NTNV	BLE_2M	Ant1	2402	30~1000	95.96	-63.96	≤-54	0.40179	≤4	See table below
NTNV	BLE_2M	Ant1	2402	1000~12500	10808.84	-62.63	≤-47	0.54576	≤20	PASS
NTNV	BLE_2M	Ant1	2440	30~1000	95.96	-64.23	≤-54	0.37757	≤4	PASS
NTNV	BLE_2M	Ant1	2440	1000~12500	11824.92	-63.30	≤-47	0.46774	≤20	PASS
NTNV	BLE_2M	Ant1	2480	30~1000	95.96	-63.84	≤-54	0.41305	≤4	See table below
NTNV	BLE_2M	Ant1	2480	1000~12500	10188.96	-63.16	≤-47	0.48306	≤20	PASS

Test Result_Step2

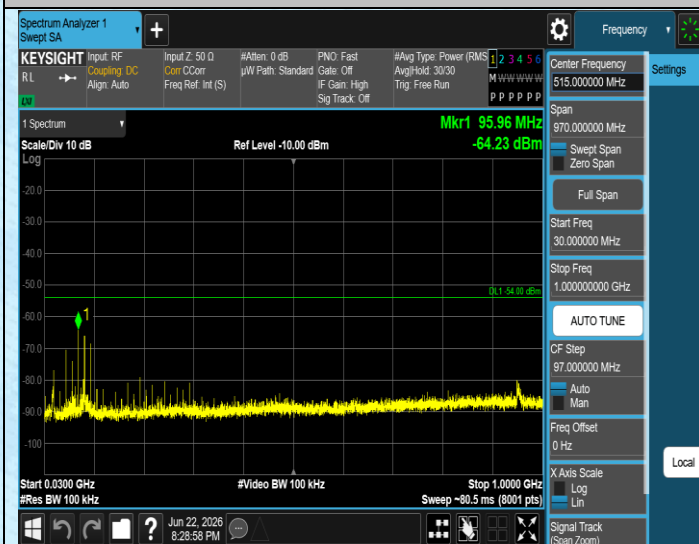
Test Condition	Test Mode	Antenna	Freq[MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	96.01	-98.40	≤-54	0.00014	≤4	PASS
NTNV	BLE_1M	Ant1	2440	30~1000	96.01	-98.51	≤-54	0.00014	≤4	PASS
NTNV	BLE_1M	Ant1	2480	30~1000	96.01	-98.44	≤-54	0.00014	≤4	PASS
NTNV	BLE_2M	Ant1	2402	30~1000	96.01	-98.57	≤-54	0.00014	≤4	PASS
NTNV	BLE_2M	Ant1	2480	30~1000	96.01	-98.43	≤-54	0.00014	≤4	PASS

Test Graphs

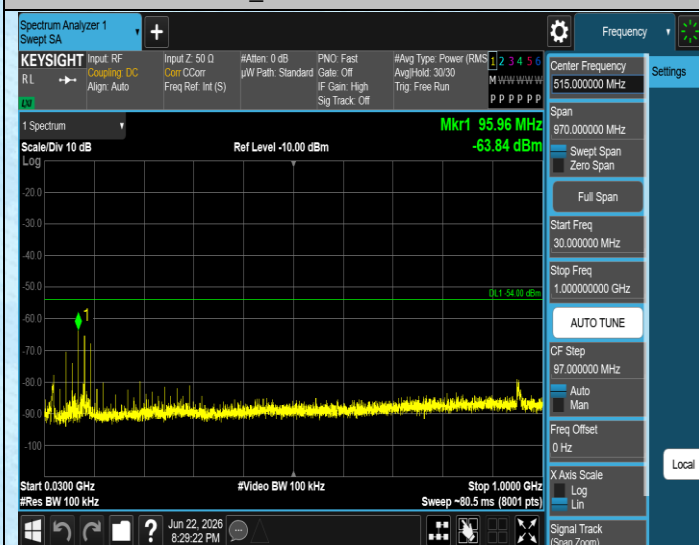




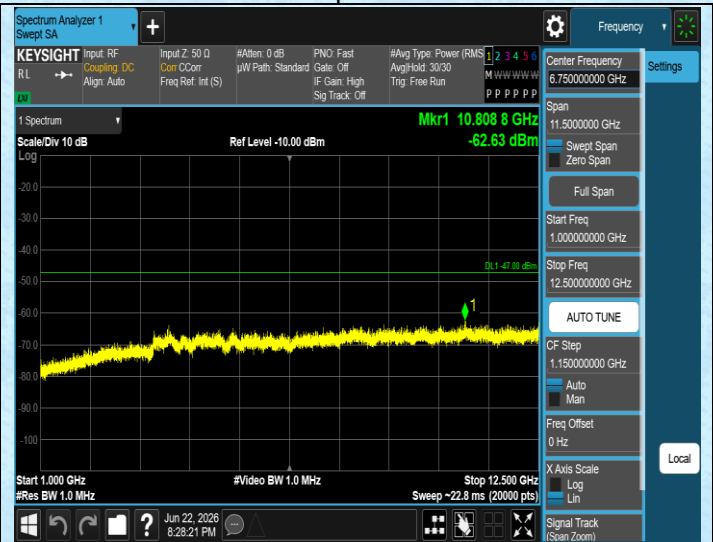
NTNV-BLE_2M-Ant1-2402-30~1000-See table below



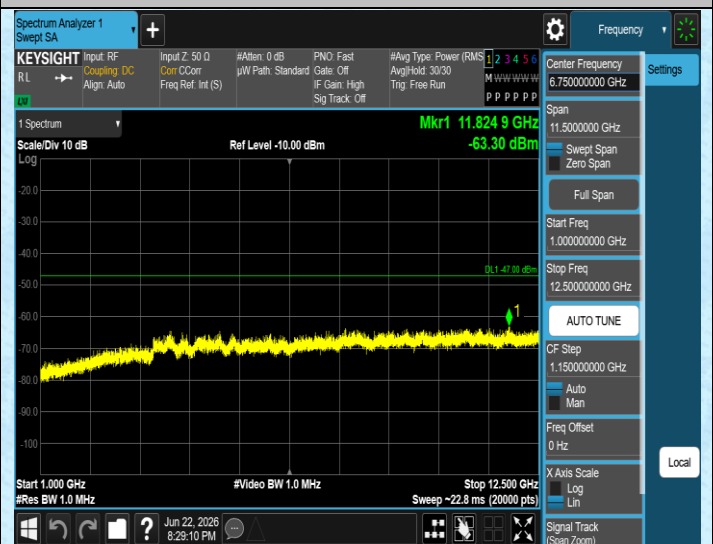
NTNV-BLE_2M-Ant1-2440-30~1000-PASS



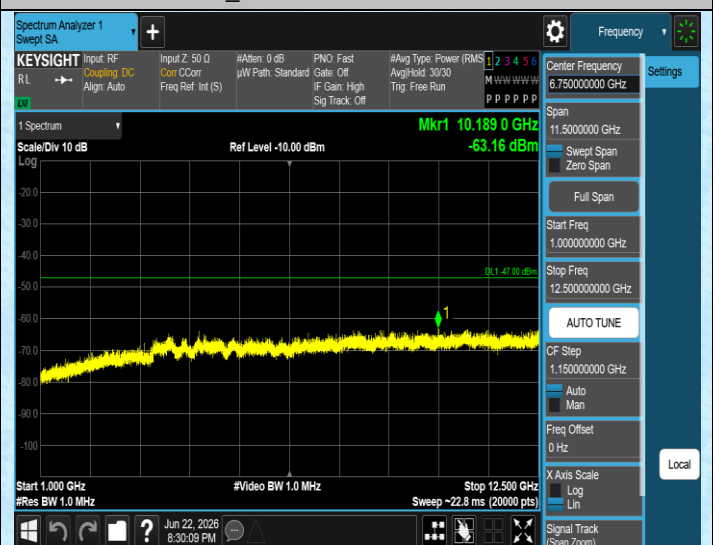
NTNV-BLE_2M-Ant1-2480-30~1000-See table below



NTNV-BLE_2M-Ant1-2402-1000~12500-PASS

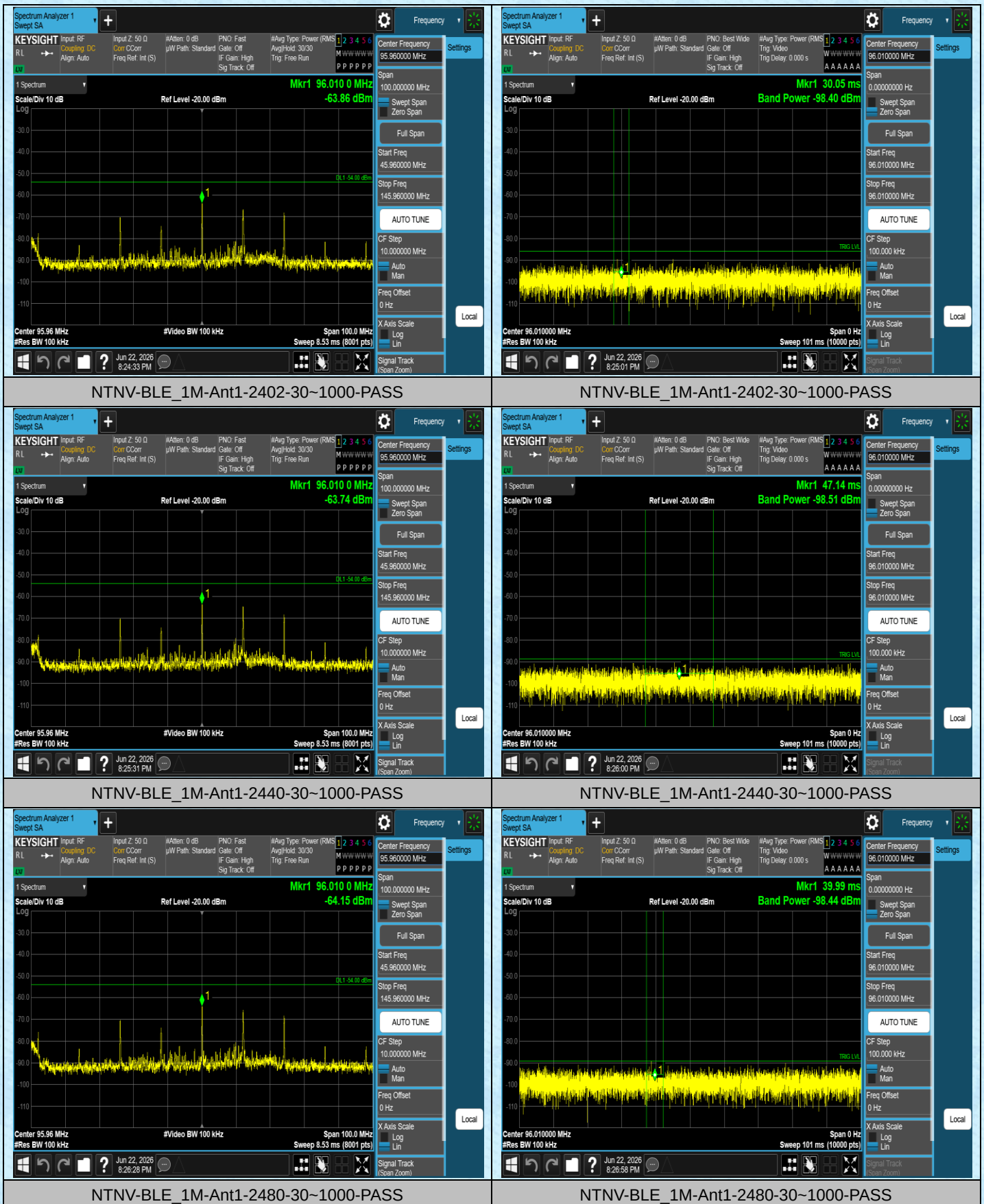


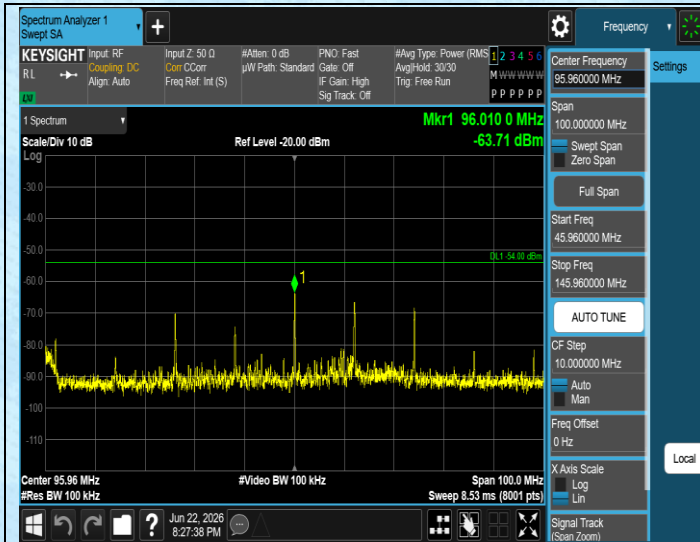
NTNV-BLE_2M-Ant1-2440-1000~12500-PASS



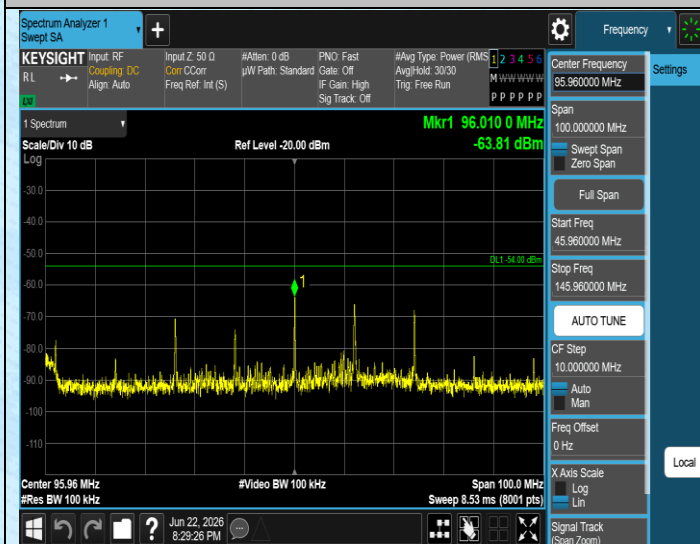
NTNV-BLE_2M-Ant1-2480-1000~12500-PASS

Test Graphs_Step2

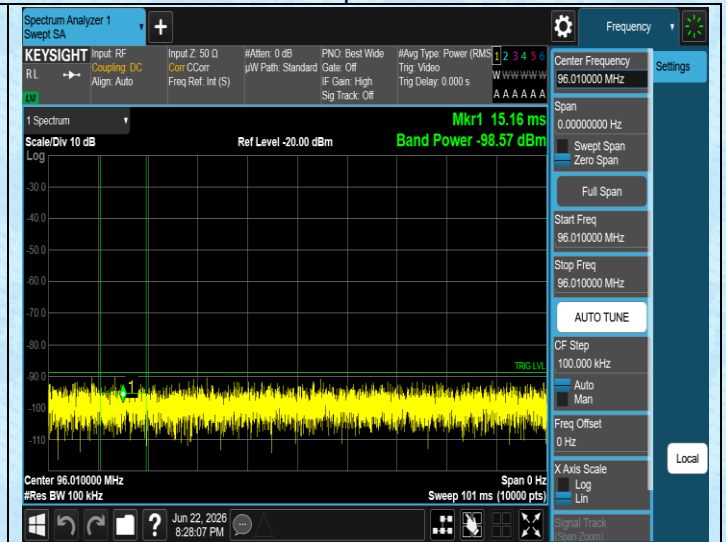




NTNV-BLE_2M-Ant1-2402-30~1000-PASS



NTNV-BLE_2M-Ant1-2480-30~1000-PASS



NTNV-BLE_2M-Ant1-2402-30~1000-PASS



NTNV-BLE_2M-Ant1-2480-30~1000-PASS

-----End-----