

Appendix Test Data

Report No.:	1812C50098612501	Test Sample No.:	1-2-2
Start Test Date:	2025-03-20	Finish Test Date:	2025-05-15
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23°C	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: Frequency_Error

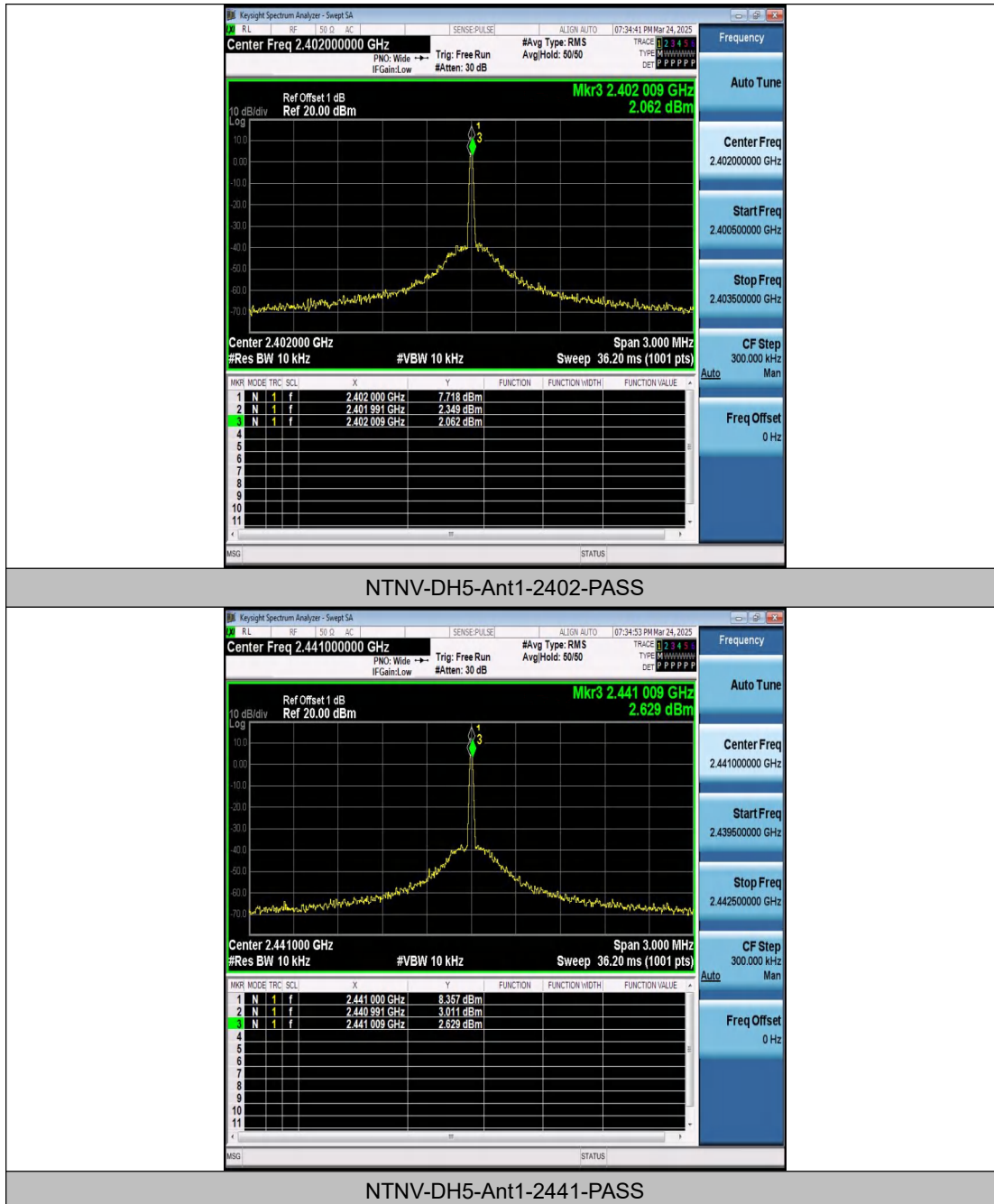
Test Result

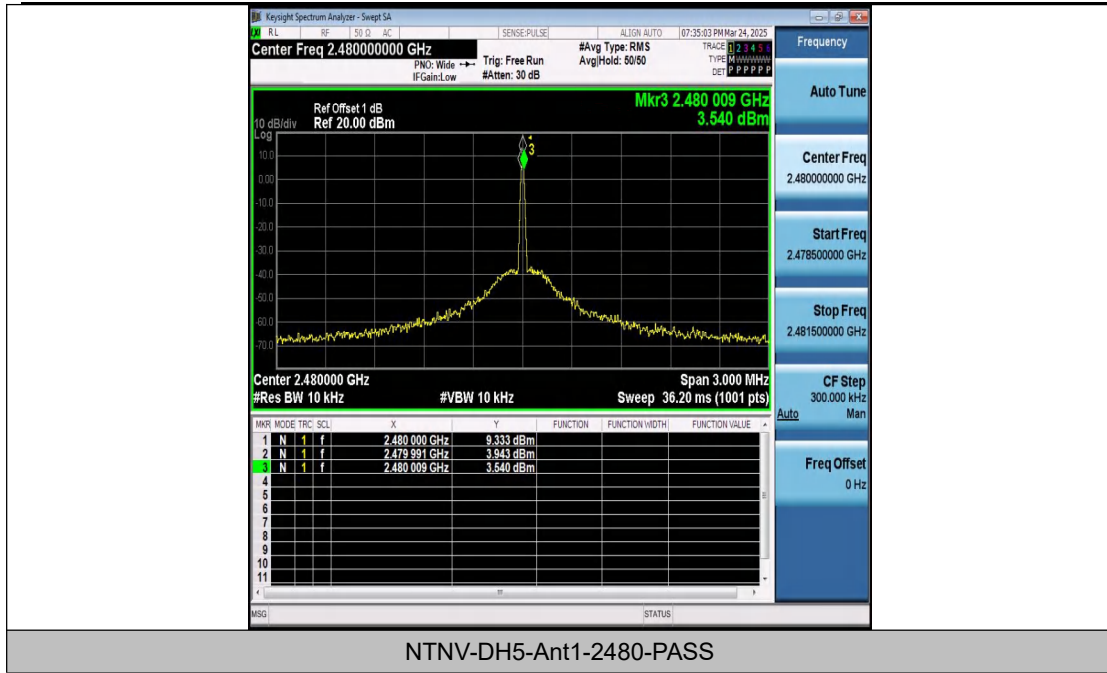
Test Condition	Test Mode	Antenna	Frequency [MHz]	Center Freq. [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	DH5	Ant1	2402	2402	0.00000	±50	PASS
NTNV	DH5	Ant1	2441	2441	0.00000	±50	PASS
NTNV	DH5	Ant1	2480	2480	0.00000	±50	PASS

Note: Result[ppm]= (Center Freq.[MHz] - Frequency[MHz])/ Frequency[MHz]*1000000



Test Graphs





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Appendix B: Antenna Power

Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Result (mW)	Spread Bandwidth (MHz)	Result [mW/MHz]	Limit [mW/MHz]	Verdict
NTNV	DH5	Ant1	Hop	17.0	50.119	71.448	0.7015	≤3	PASS
NTNV	2DH5	Ant1	Hop	17.5	56.234	71.144	0.7904	≤3	PASS
NTNV	3DH5	Ant1	Hop	17.4	54.954	71.832	0.7650	≤3	PASS

Note: $\text{Result(mW/MHz)} = 10^{(\text{Test Result(dBm/MHz)}/10)}$

Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [mW/MHz]	Rated Power [mW/MHz]	Result [%]	Limit [%]	Verdict
NTNV	DH5	Ant1	Hop	0.7015	2	-64.93	+20	PASS
NTNV	2DH5	Ant1	Hop	0.7904	2	-60.48	+20	PASS
NTNV	3DH5	Ant1	Hop	0.7650	2	-61.75	+20	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Power [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
NTNV	DH5	Ant1	Hop	-1.53	1.85	≤6.91	PASS
NTNV	2DH5	Ant1	Hop	-1.02	2.37	≤6.91	PASS
NTNV	3DH5	Ant1	Hop	-1.17	2.21	≤6.91	PASS

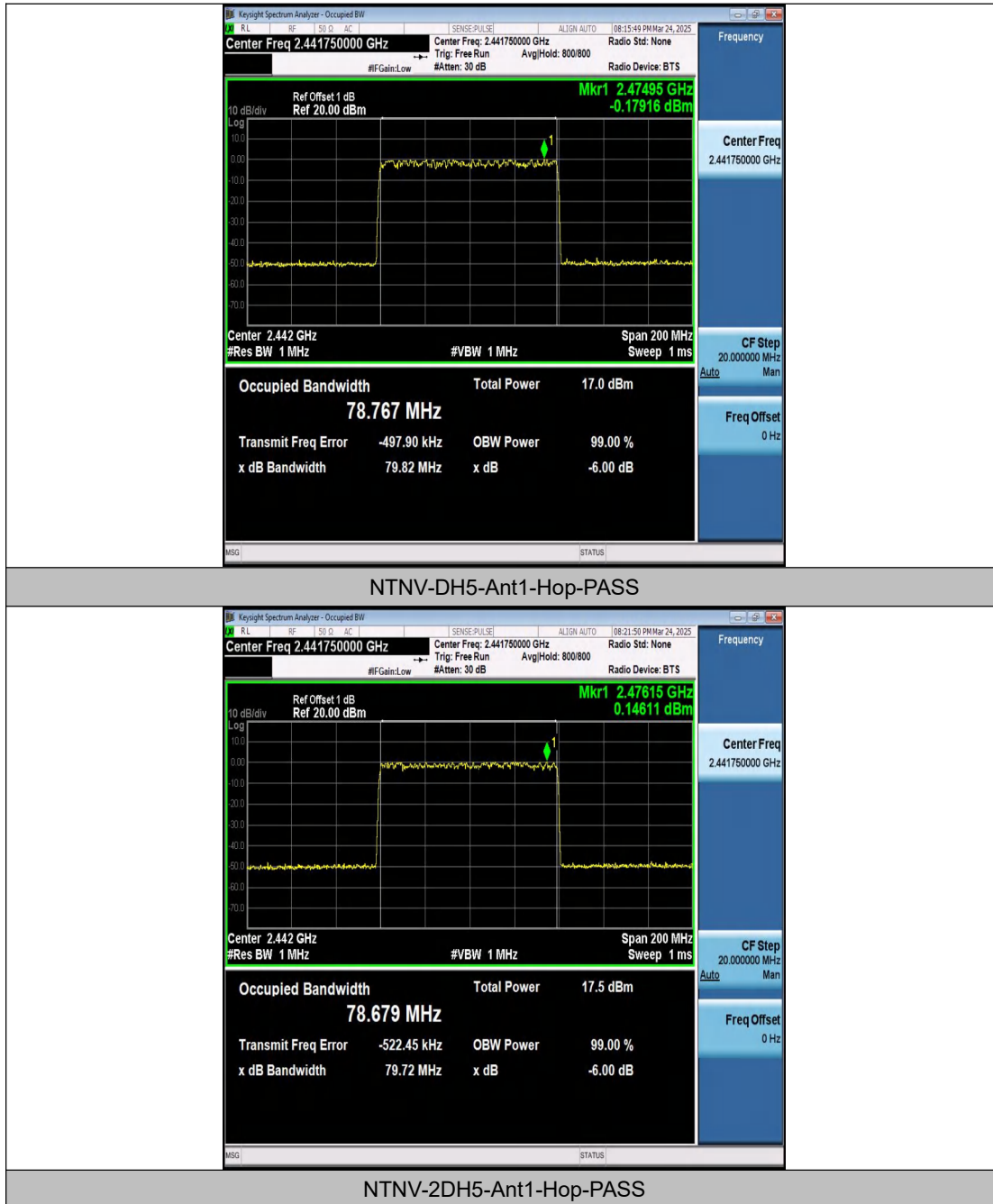
Note:

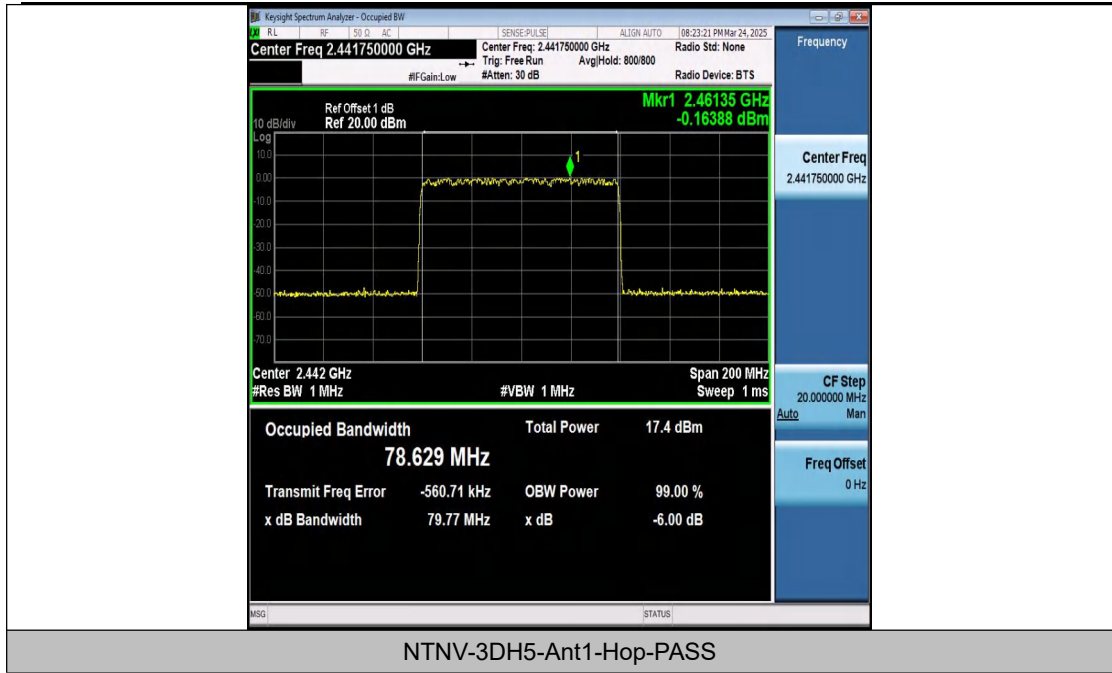
$\text{Result(dBm/MHz)} = 10 \log(\text{Power (mW/MHz)})$

$\text{EIRP(dBm/MHz)} = \text{Result(dBm/MHz)} + \text{Gain(dBi)}$



Test Graphs





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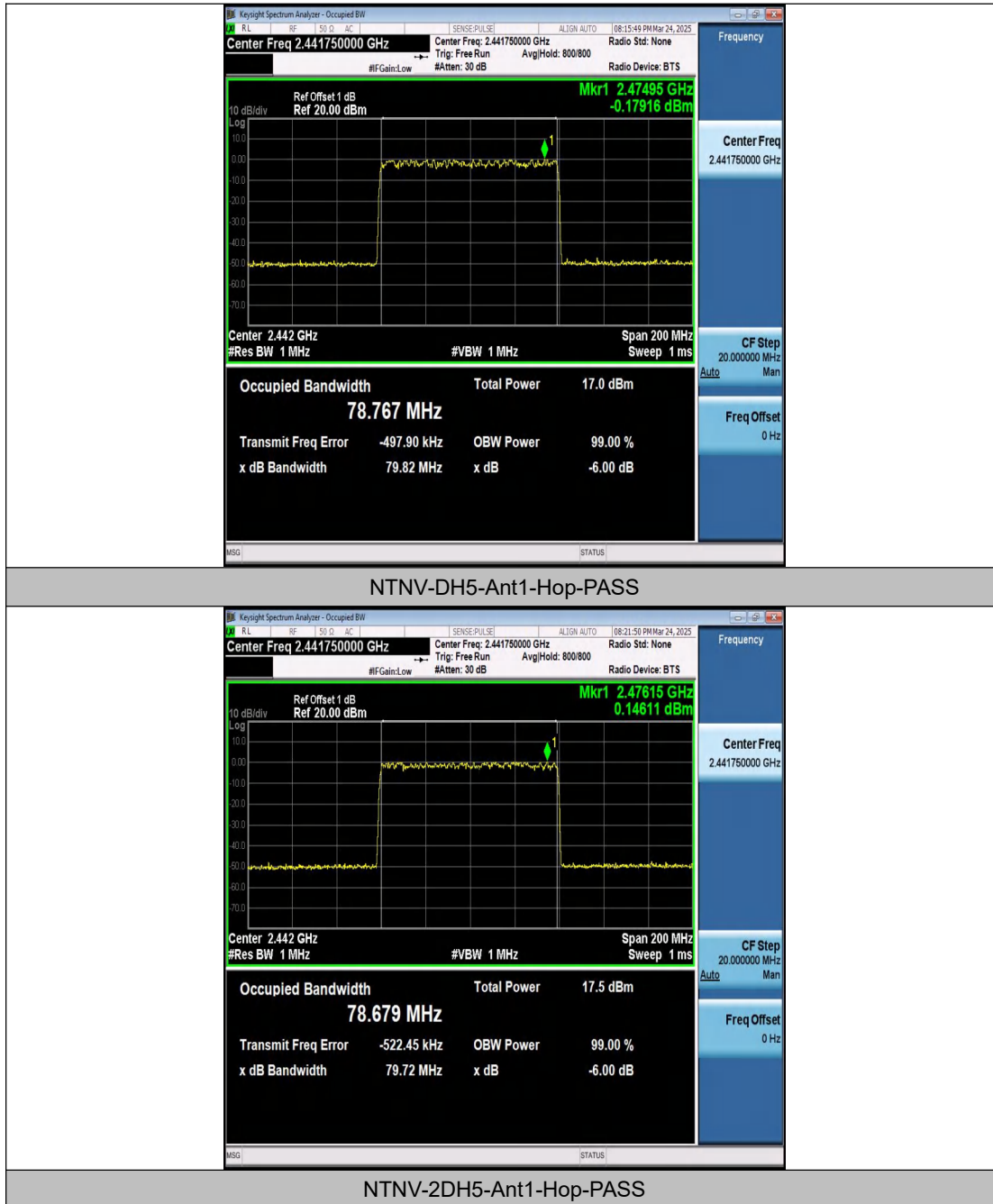
Appendix C: Occupied Bandwidth

Test Result

Test Condition	Test Mode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.767	≤83.5	PASS
NTNV	2DH5	Ant1	Hop	78.679	≤83.5	PASS
NTNV	3DH5	Ant1	Hop	78.629	≤83.5	PASS



Test Graphs



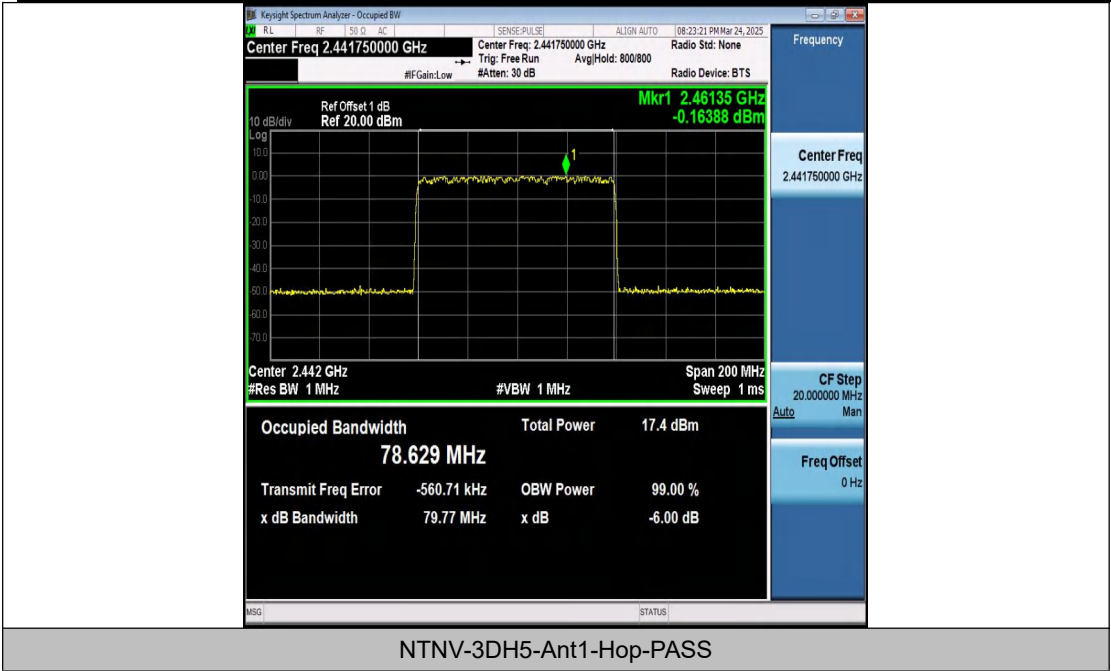
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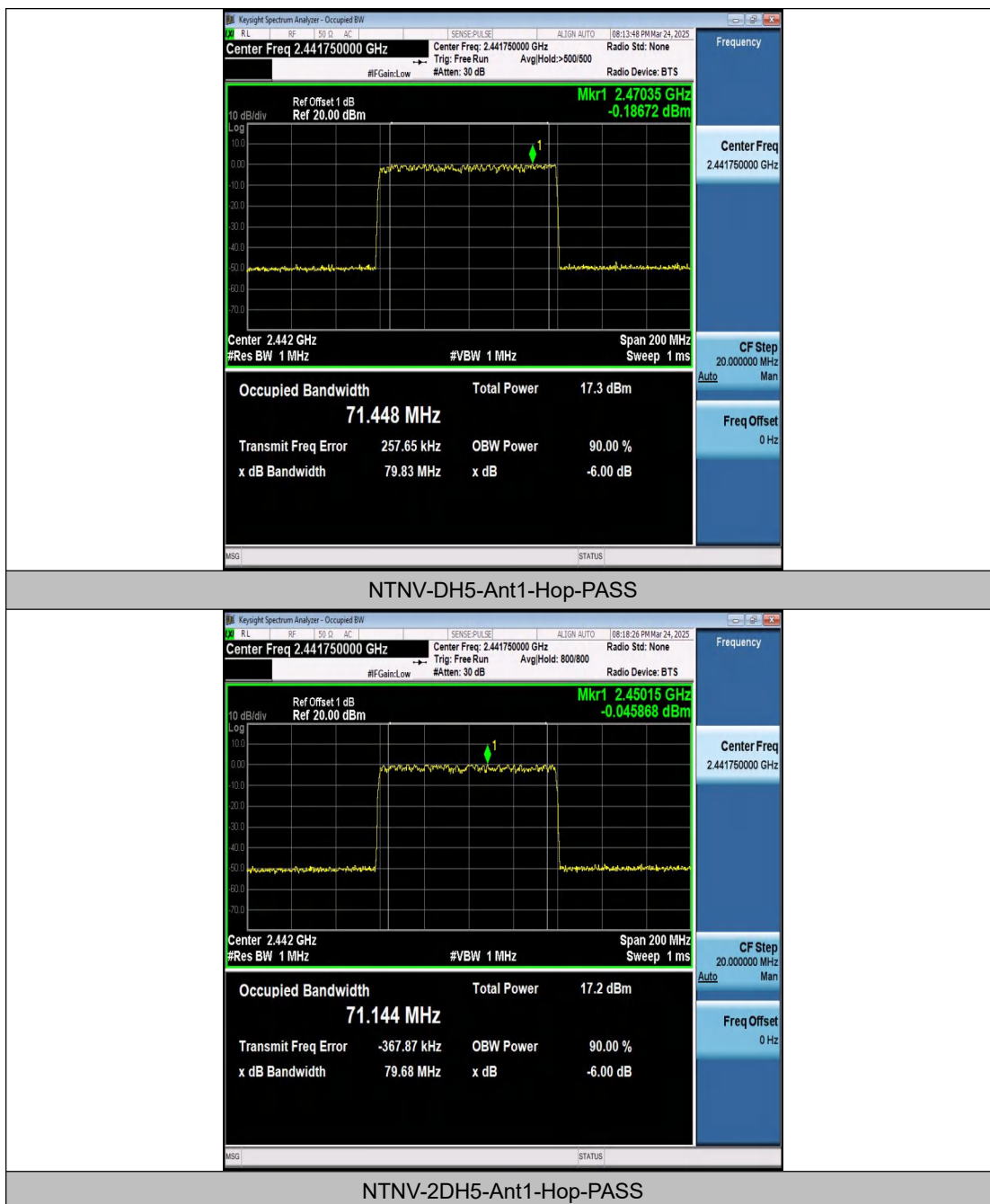
Appendix D: Spread Bandwidth

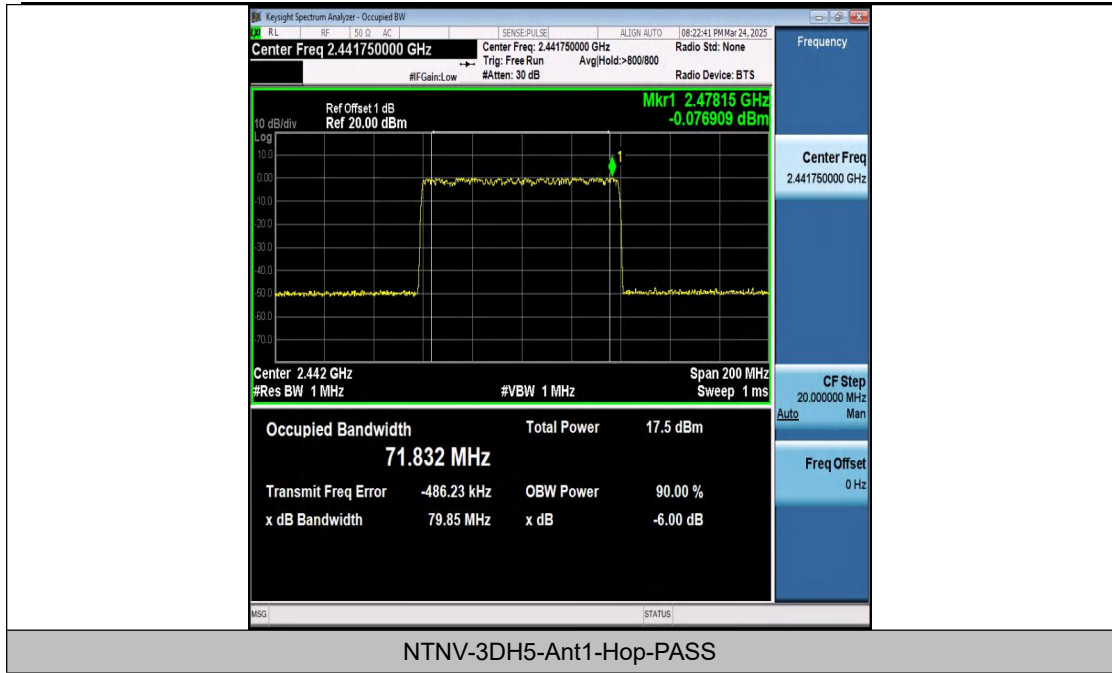
Test Result

Test Condition	Test Mode	Antenna	Frequency[MHz]	Result [MHz]
NTNV	DH5	Ant1	Hop	71.448
NTNV	2DH5	Ant1	Hop	71.144
NTNV	3DH5	Ant1	Hop	71.832



Test Graphs





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Appendix E: Spurious Emission of TX

Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	DH5	Ant1	2402	30~1000	199.75	-58.84	≤-26	0.00131	≤2.5	PASS
NTNV	DH5	Ant1	2402	1000~2387	2380.07	-57.15	≤-26	0.00193	≤2.5	PASS
NTNV	DH5	Ant1	2402	2387~2400	2400.00	-44.90	≤-16	0.03236	≤25	PASS
NTNV	DH5	Ant1	2402	2483.5~2496.5	2492.61	-56.99	≤-16	0.00200	≤25	PASS
NTNV	DH5	Ant1	2402	2496.5~13000	5741.03	-53.71	≤-26	0.00426	≤2.5	PASS
NTNV	DH5	Ant1	2441	30~1000	190.78	-57.74	≤-26	0.00168	≤2.5	PASS
NTNV	DH5	Ant1	2441	1000~2387	2354.75	-57.25	≤-26	0.00188	≤2.5	PASS
NTNV	DH5	Ant1	2441	2387~2400	2400.00	-56.57	≤-16	0.00220	≤25	PASS
NTNV	DH5	Ant1	2441	2483.5~2496.5	2491.37	-56.09	≤-16	0.00246	≤25	PASS
NTNV	DH5	Ant1	2441	2496.5~13000	12130.31	-55.61	≤-26	0.00275	≤2.5	PASS
NTNV	DH5	Ant1	2480	30~1000	767.44	-58.57	≤-26	0.00139	≤2.5	PASS
NTNV	DH5	Ant1	2480	1000~2387	1825.61	-57.15	≤-26	0.00193	≤2.5	PASS
NTNV	DH5	Ant1	2480	2387~2400	2399.34	-56.20	≤-16	0.00240	≤25	PASS
NTNV	DH5	Ant1	2480	2483.5~2496.5	2485.83	-54.50	≤-16	0.00355	≤25	PASS
NTNV	DH5	Ant1	2480	2496.5~13000	12892.86	-56.21	≤-26	0.00239	≤2.5	PASS
NTNV	2DH5	Ant1	2402	30~1000	206.54	-58.41	≤-26	0.00144	≤2.5	PASS
NTNV	2DH5	Ant1	2402	1000~2387	1903.28	-56.37	≤-26	0.00231	≤2.5	PASS
NTNV	2DH5	Ant1	2402	2387~2400	2400.00	-34.54	≤-16	0.35156	≤25	PASS
NTNV	2DH5	Ant1	2402	2483.5~2496.5	2489.71	-56.92	≤-16	0.00203	≤25	PASS
NTNV	2DH5	Ant1	2402	2496.5~13000	6093.95	-56.33	≤-26	0.00233	≤2.5	PASS
NTNV	2DH5	Ant1	2441	30~1000	195.14	-58.39	≤-26	0.00145	≤2.5	PASS
NTNV	2DH5	Ant1	2441	1000~2387	1739.27	-55.96	≤-26	0.00254	≤2.5	PASS
NTNV	2DH5	Ant1	2441	2387~2400	2390.10	-57.26	≤-16	0.00188	≤25	PASS
NTNV	2DH5	Ant1	2441	2483.5~2496.5	2495.06	-56.87	≤-16	0.00206	≤25	PASS
NTNV	2DH5	Ant1	2441	2496.5~13000	12252.15	-55.85	≤-26	0.00260	≤2.5	PASS
NTNV	2DH5	Ant1	2480	30~1000	217.94	-57.73	≤-26	0.00169	≤2.5	PASS
NTNV	2DH5	Ant1	2480	1000~2387	2176.52	-57.19	≤-26	0.00191	≤2.5	PASS
NTNV	2DH5	Ant1	2480	2387~2400	2390.80	-56.95	≤-16	0.00202	≤25	PASS
NTNV	2DH5	Ant1	2480	2483.5~2496.5	2484.15	-55.88	≤-16	0.00258	≤25	PASS
NTNV	2DH5	Ant1	2480	2496.5~13000	5738.93	-56.17	≤-26	0.00242	≤2.5	PASS
NTNV	3DH5	Ant1	2402	30~1000	232.00	-58.41	≤-26	0.00144	≤2.5	PASS
NTNV	3DH5	Ant1	2402	1000~2387	2291.99	-57.50	≤-26	0.00178	≤2.5	PASS
NTNV	3DH5	Ant1	2402	2387~2400	2400.00	-34.28	≤-16	0.37325	≤25	PASS
NTNV	3DH5	Ant1	2402	2483.5~2496.5	2493.71	-56.85	≤-16	0.00207	≤25	PASS
NTNV	3DH5	Ant1	2402	2496.5~13000	11777.39	-55.41	≤-26	0.00288	≤2.5	PASS
NTNV	3DH5	Ant1	2441	30~1000	207.03	-58.08	≤-26	0.00156	≤2.5	PASS

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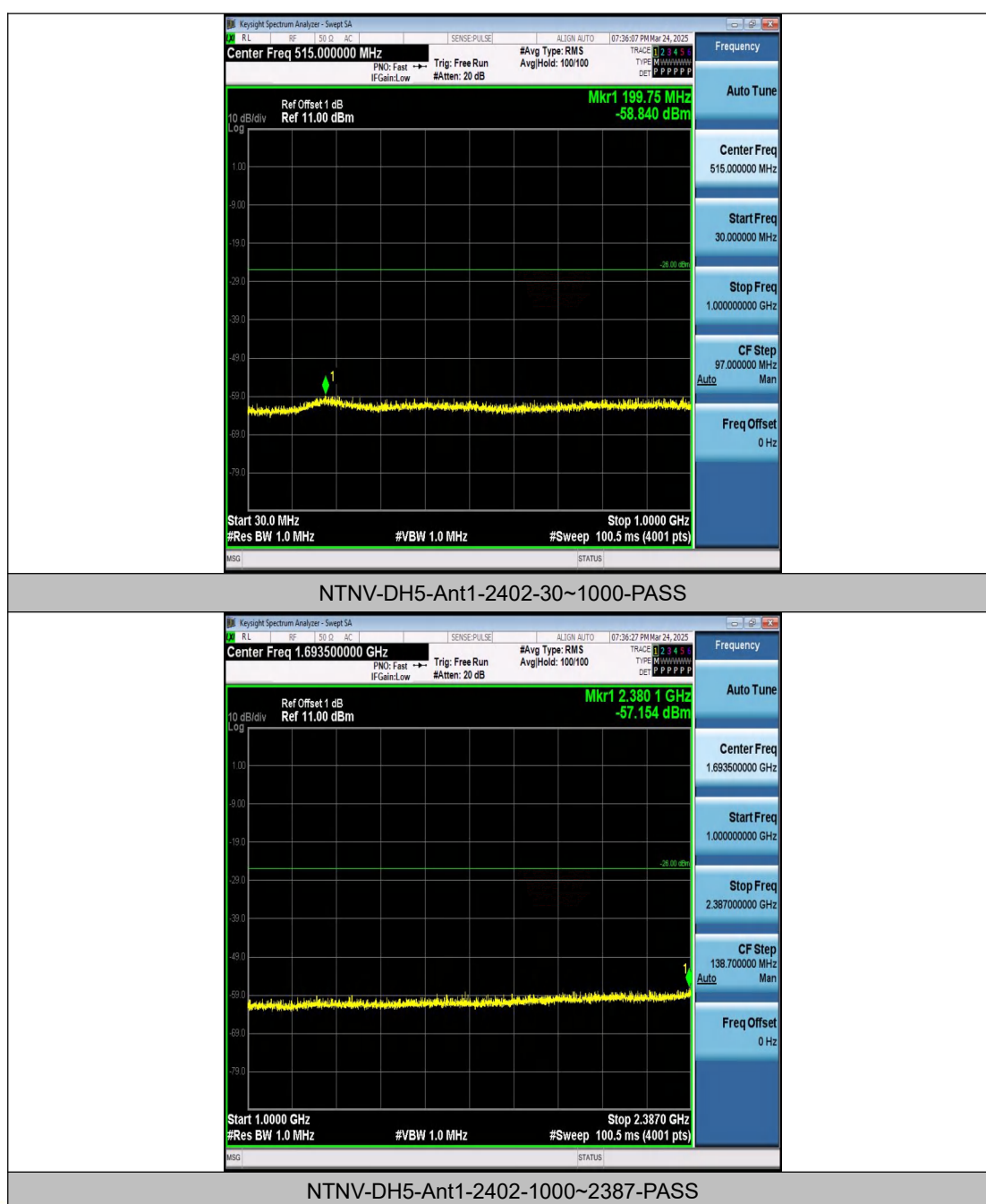


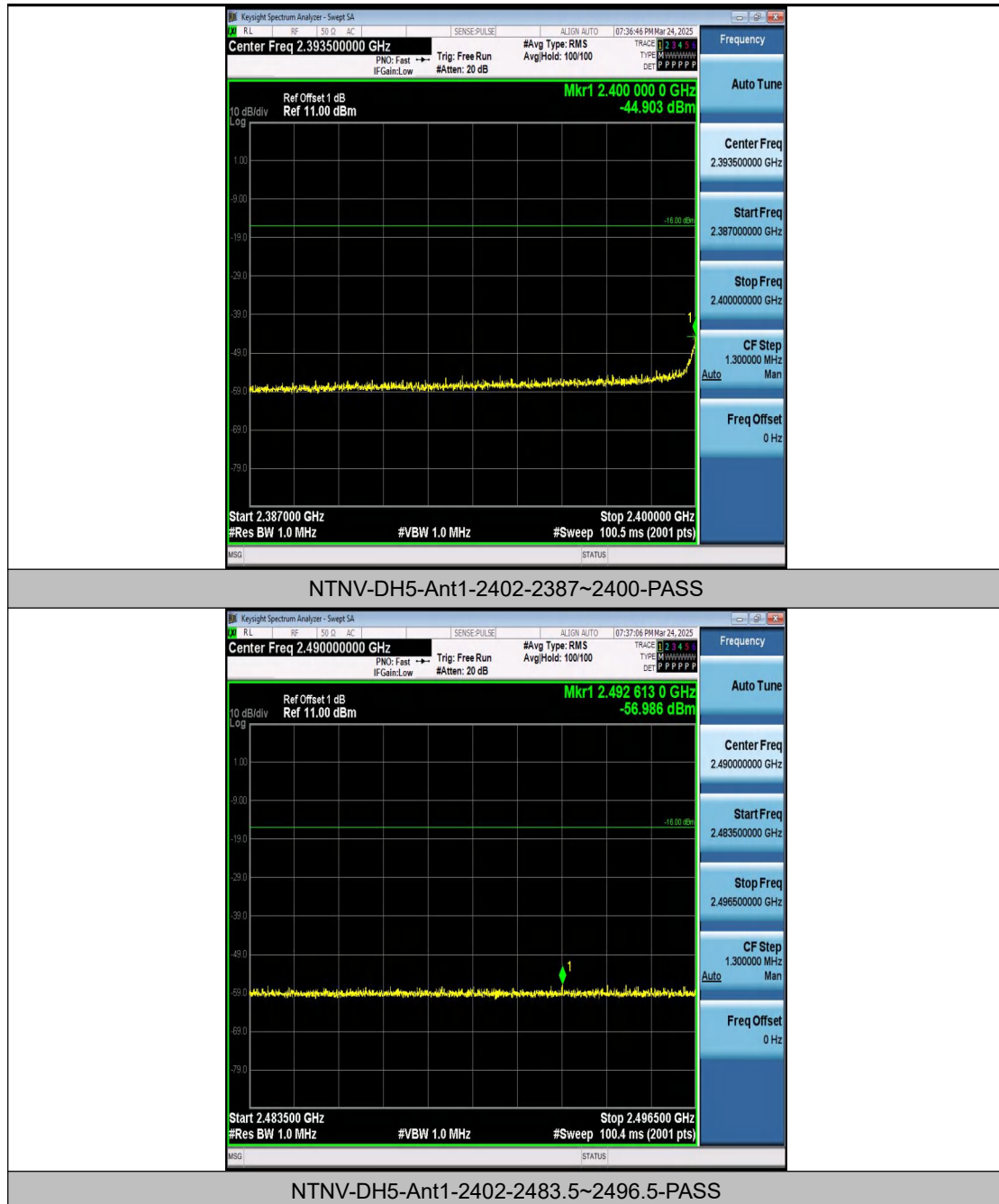
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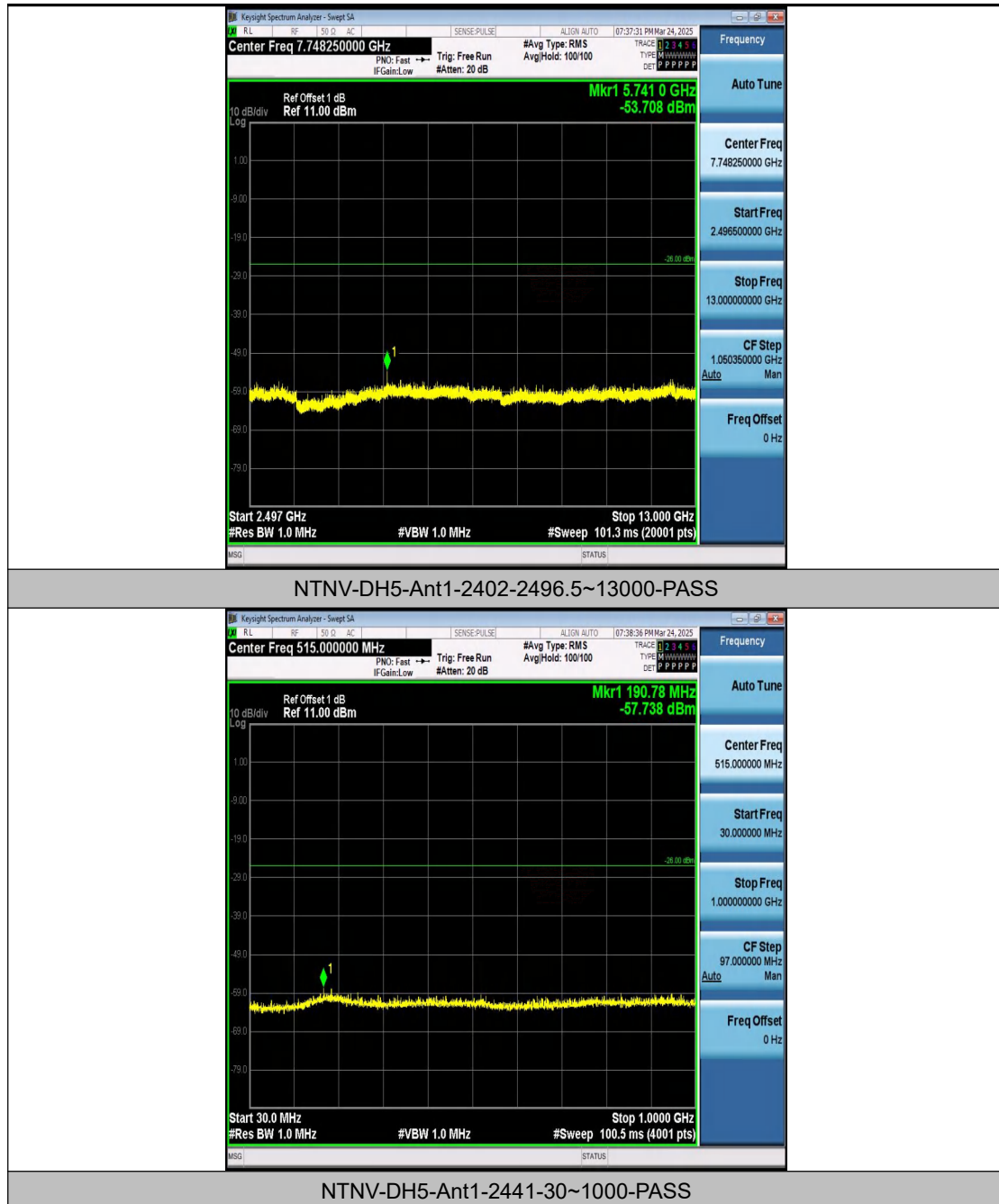


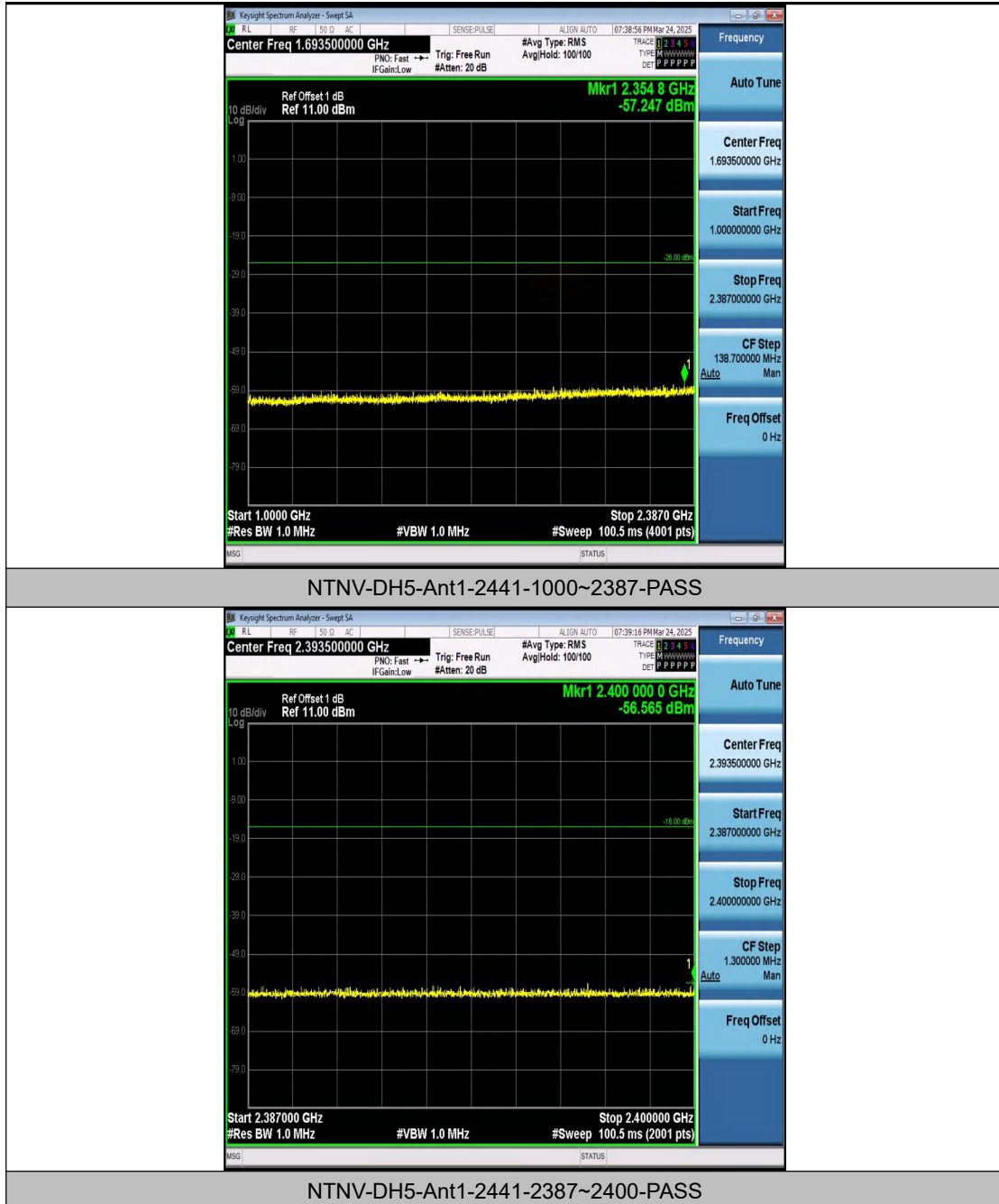
NTNV	3DH5	Ant1	2441	1000~2387	2374.52	-57.29	≤-26	0.00187	≤2.5	PASS
NTNV	3DH5	Ant1	2441	2387~2400	2389.87	-57.56	≤-16	0.00175	≤25	PASS
NTNV	3DH5	Ant1	2441	2483.5~2496.5	2487.80	-56.86	≤-16	0.00206	≤25	PASS
NTNV	3DH5	Ant1	2441	2496.5~13000	5737.35	-54.44	≤-26	0.00360	≤2.5	PASS
NTNV	3DH5	Ant1	2480	30~1000	473.53	-58.37	≤-26	0.00146	≤2.5	PASS
NTNV	3DH5	Ant1	2480	1000~2387	2348.16	-57.16	≤-26	0.00192	≤2.5	PASS
NTNV	3DH5	Ant1	2480	2387~2400	2388.39	-57.12	≤-16	0.00194	≤25	PASS
NTNV	3DH5	Ant1	2480	2483.5~2496.5	2484.72	-56.17	≤-16	0.00242	≤25	PASS
NTNV	3DH5	Ant1	2480	2496.5~13000	3154.02	-56.31	≤-26	0.00234	≤2.5	PASS

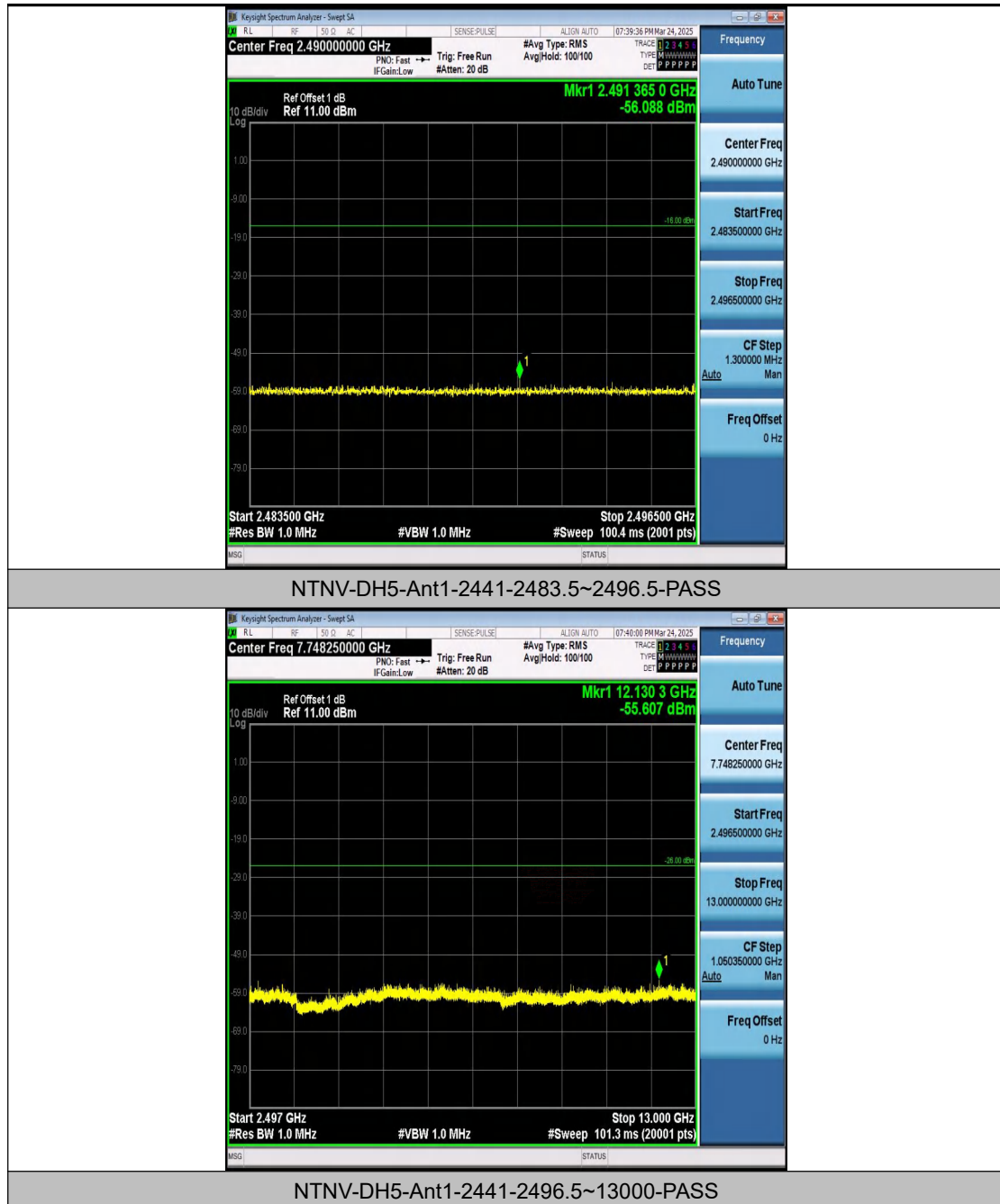
Test Graphs

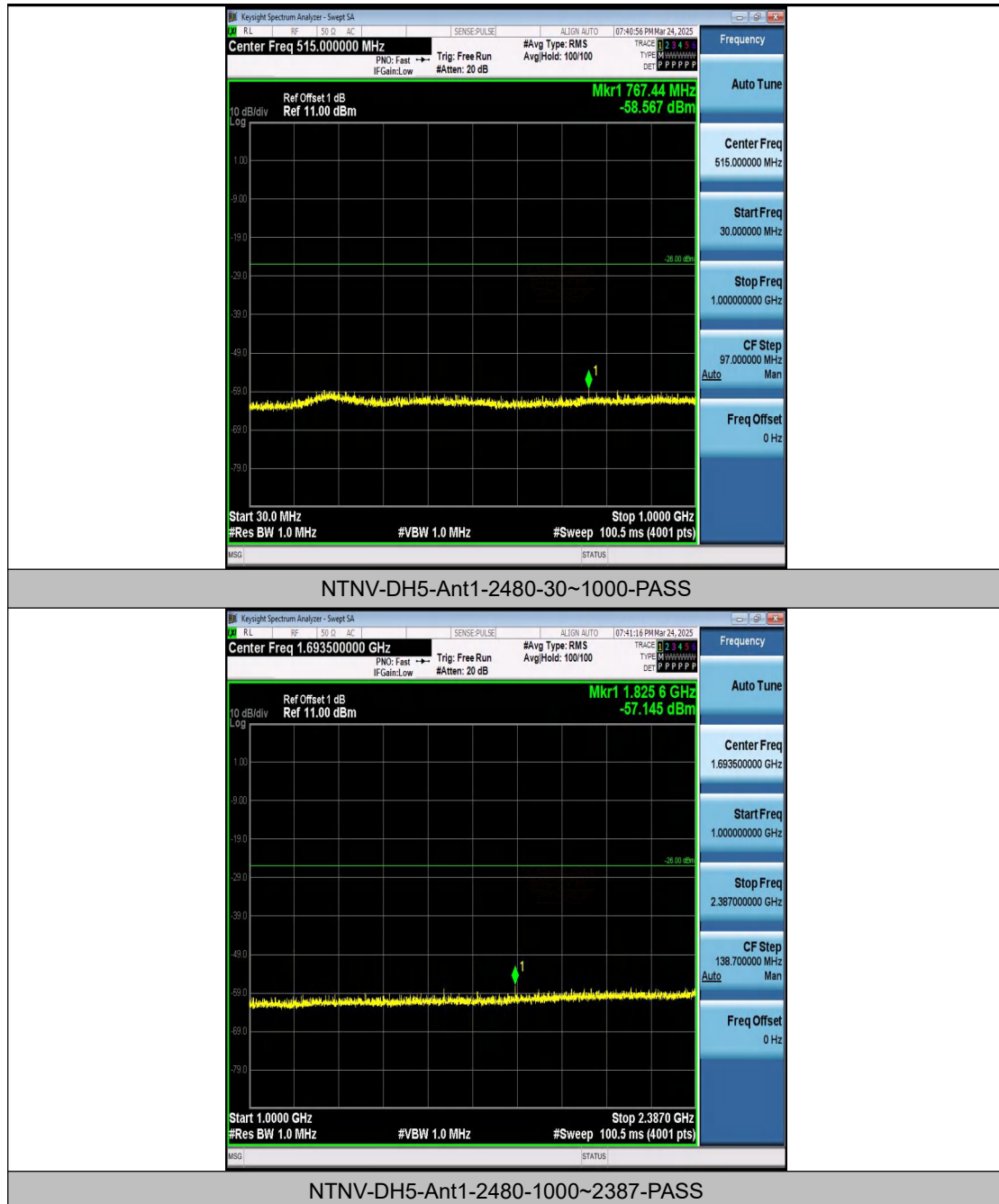


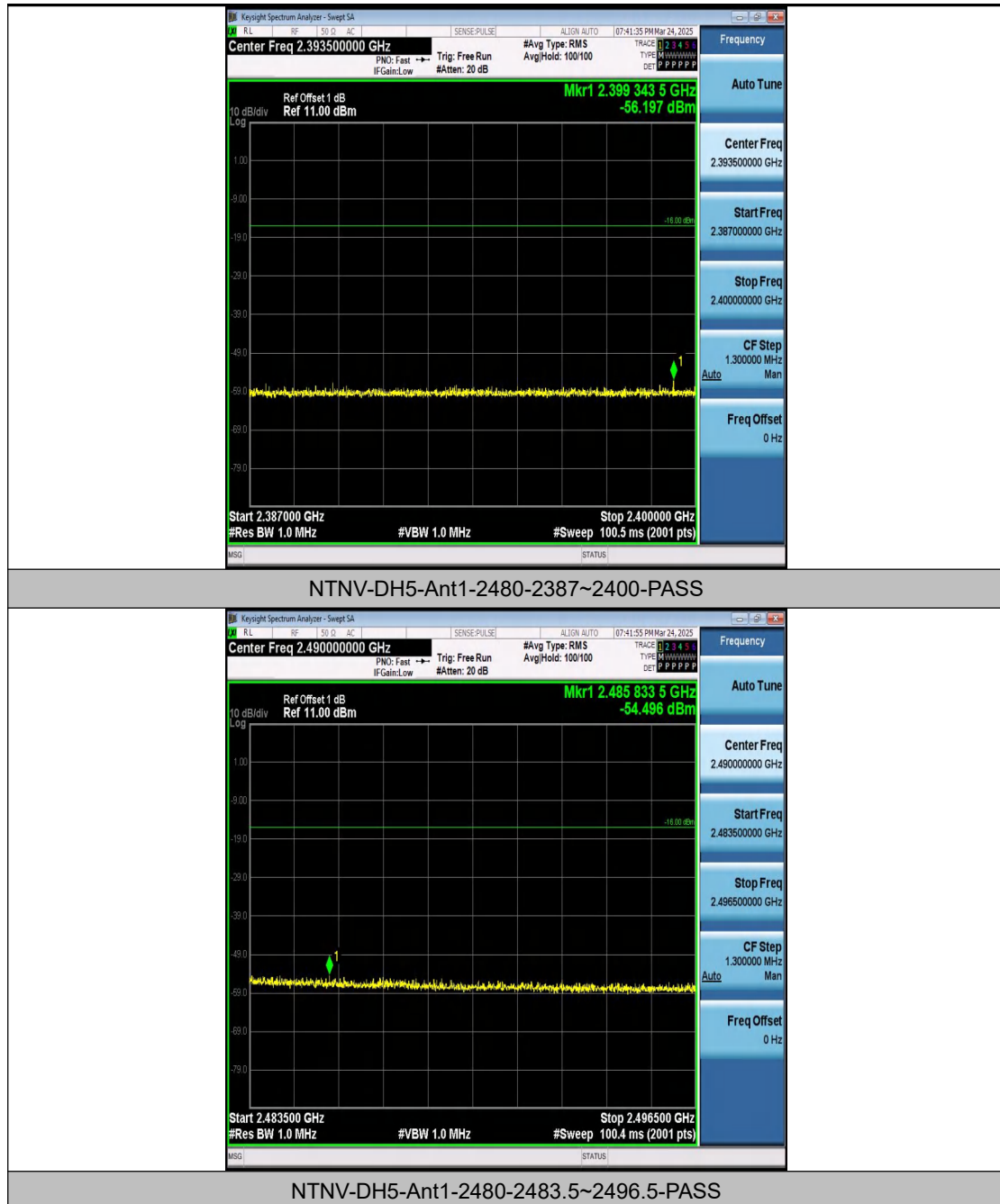


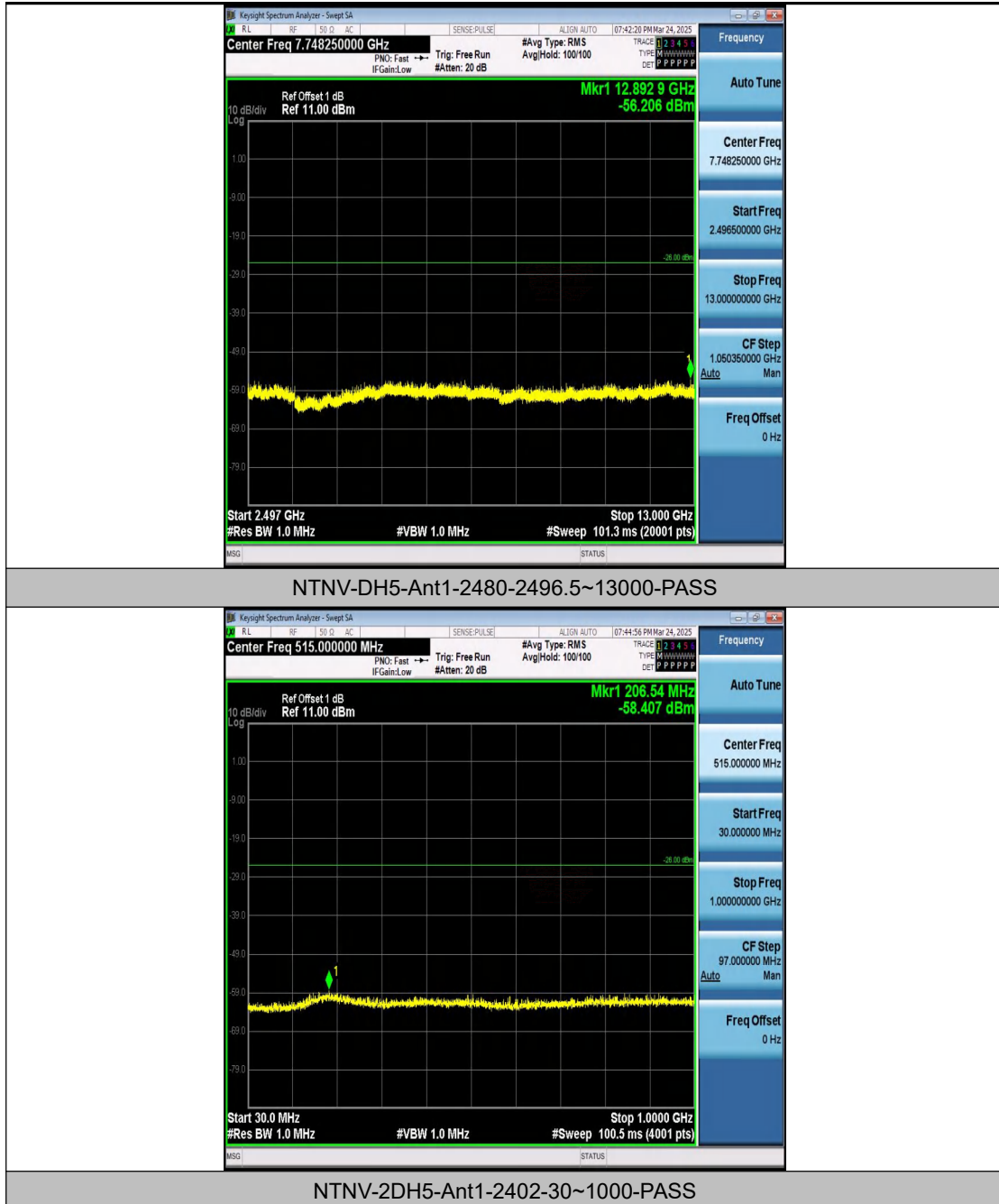


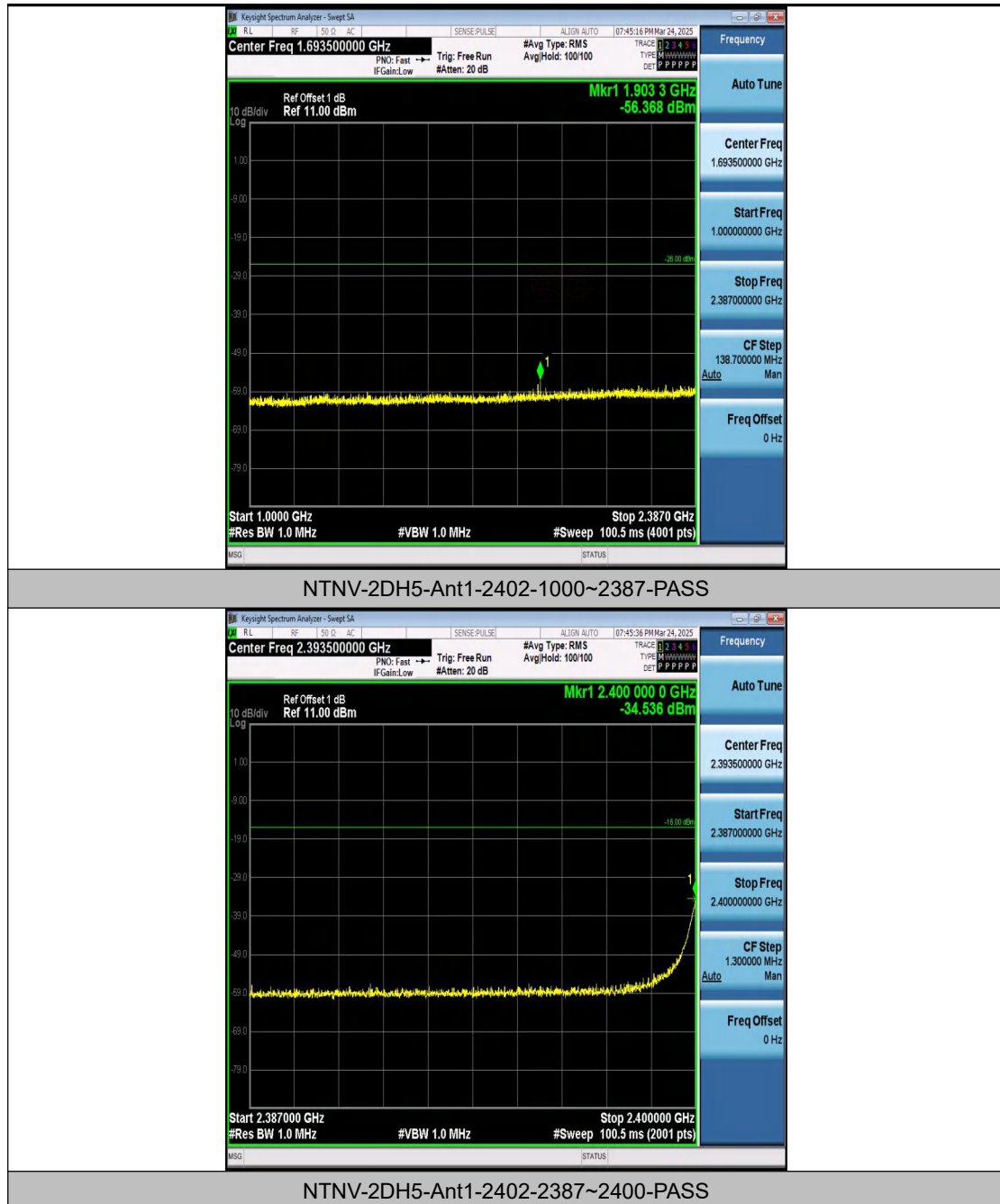


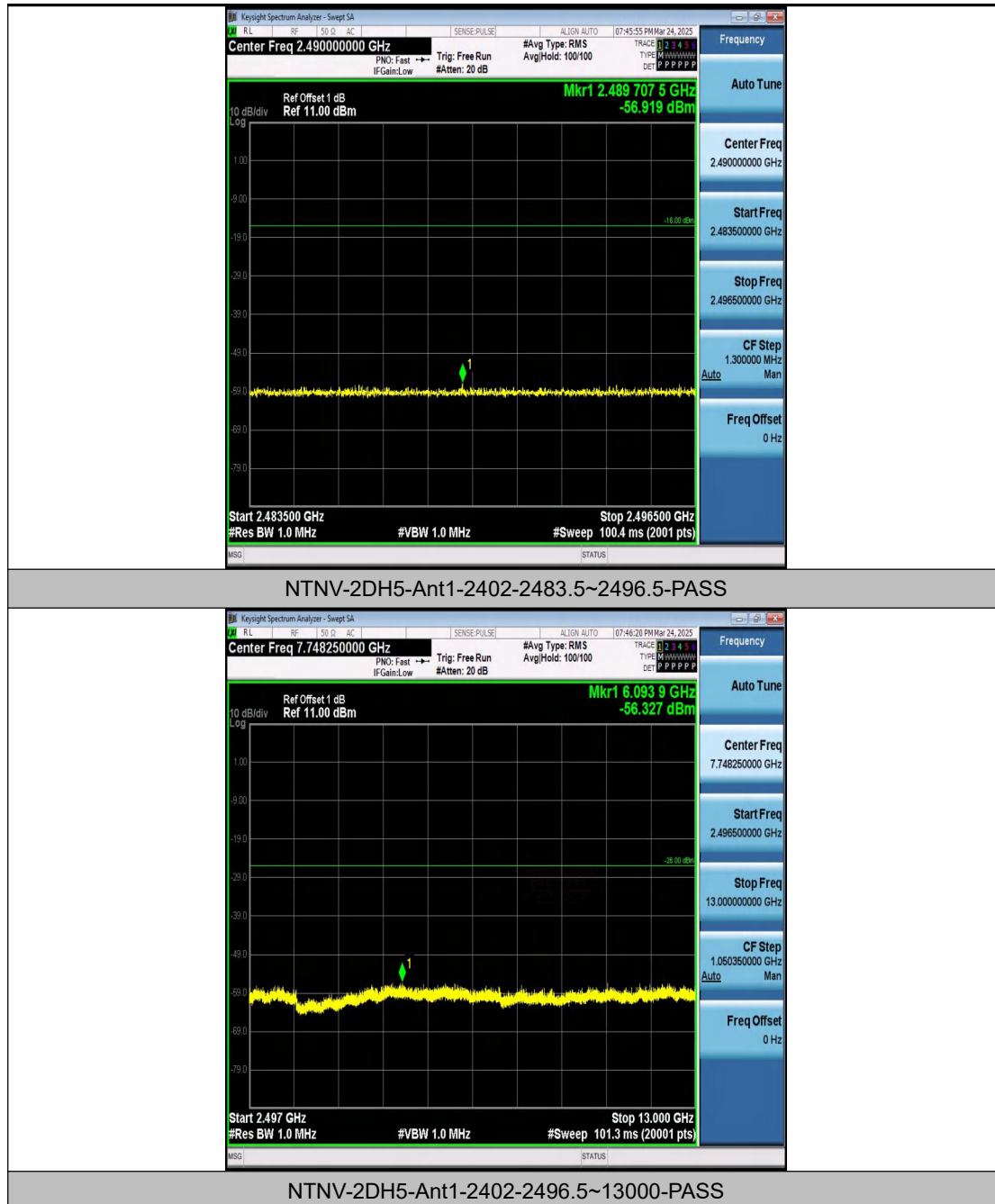


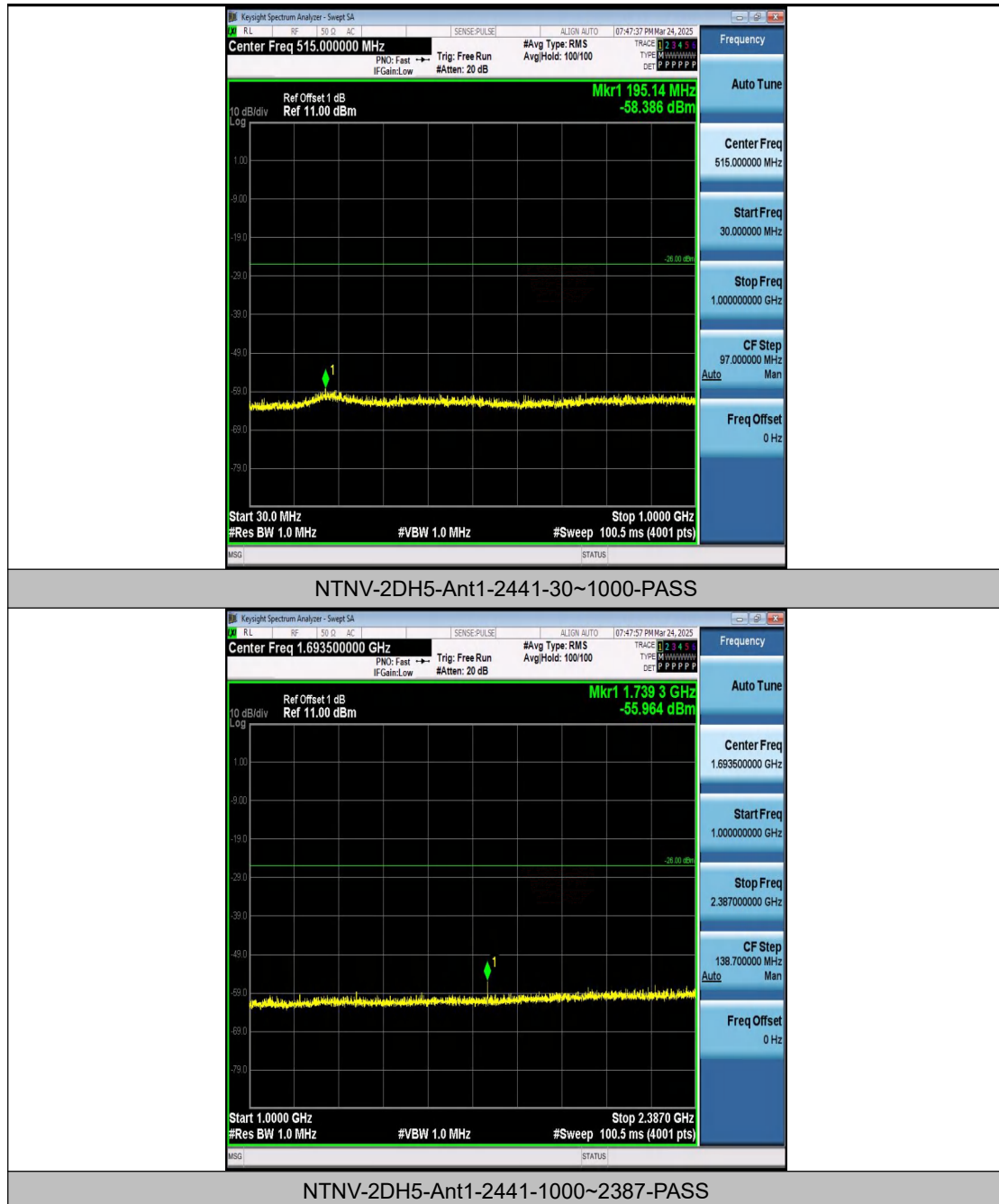


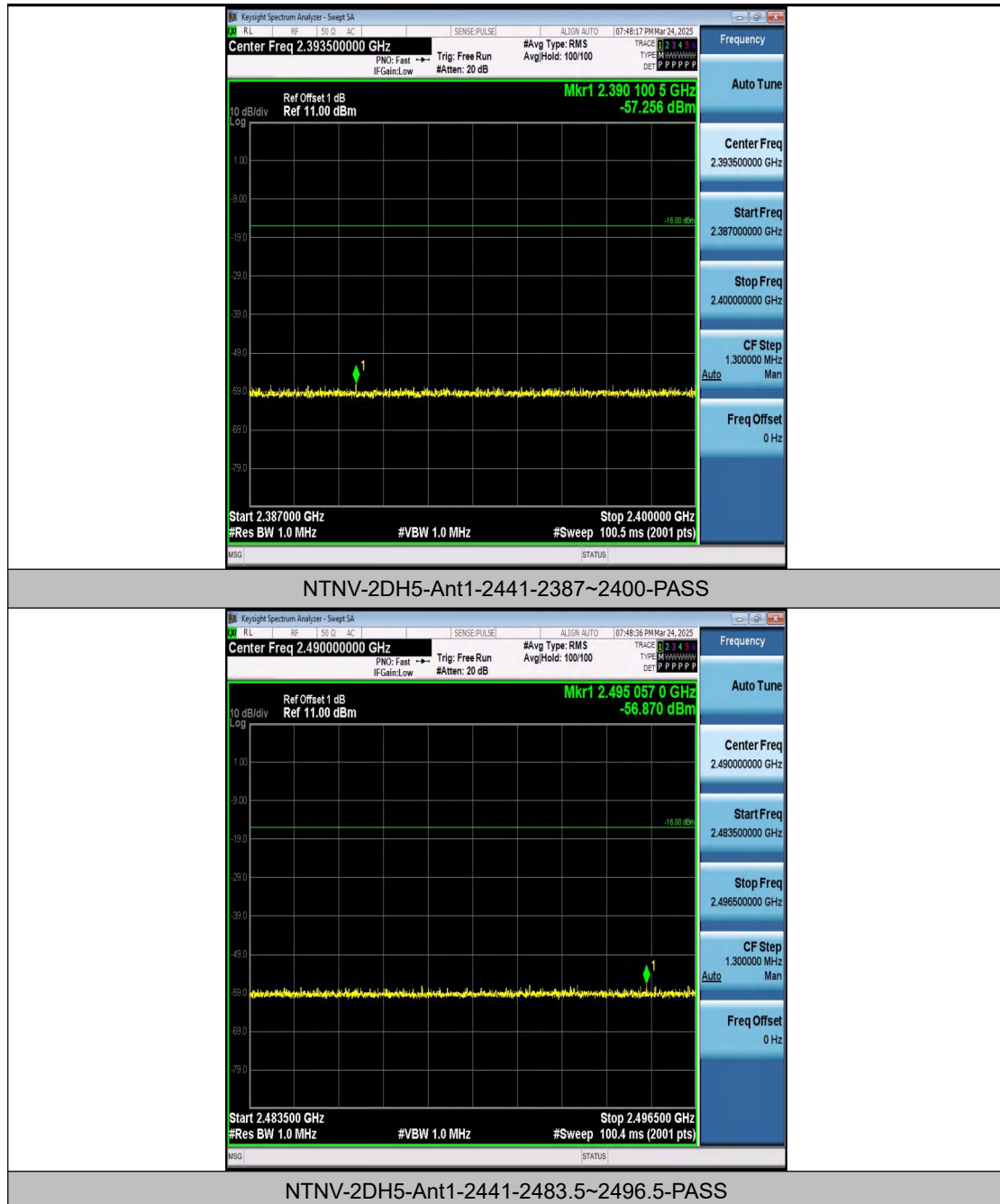


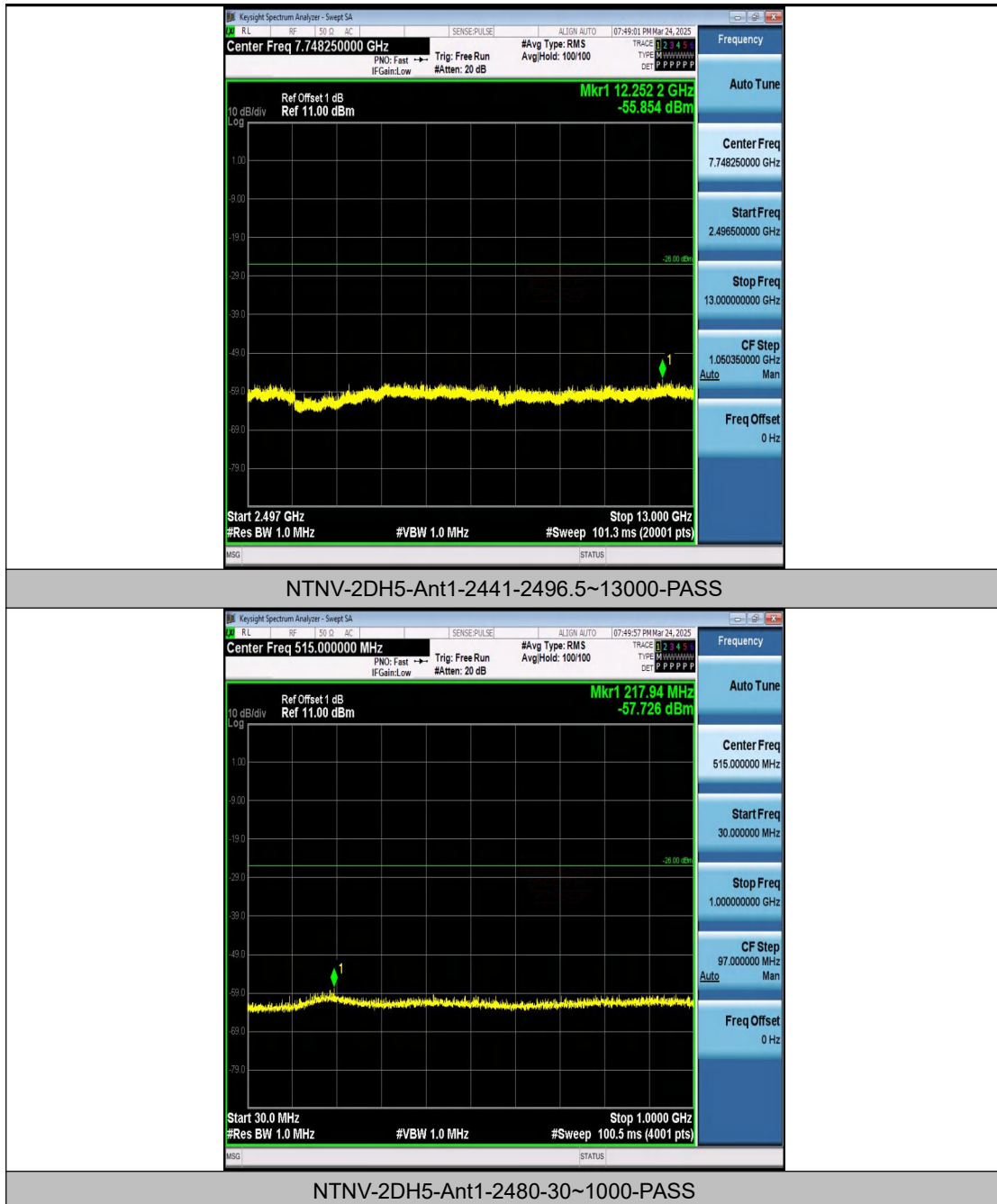


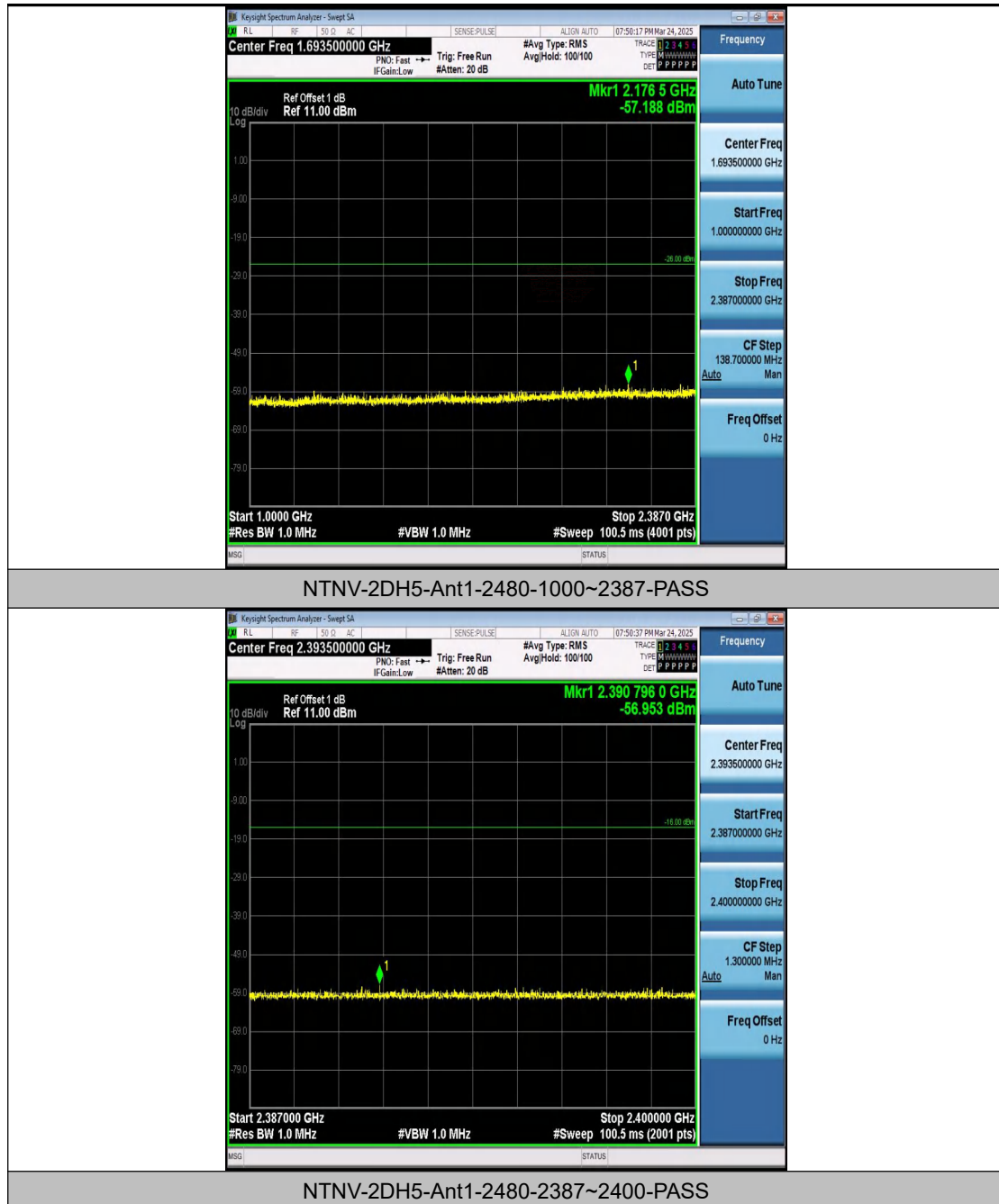


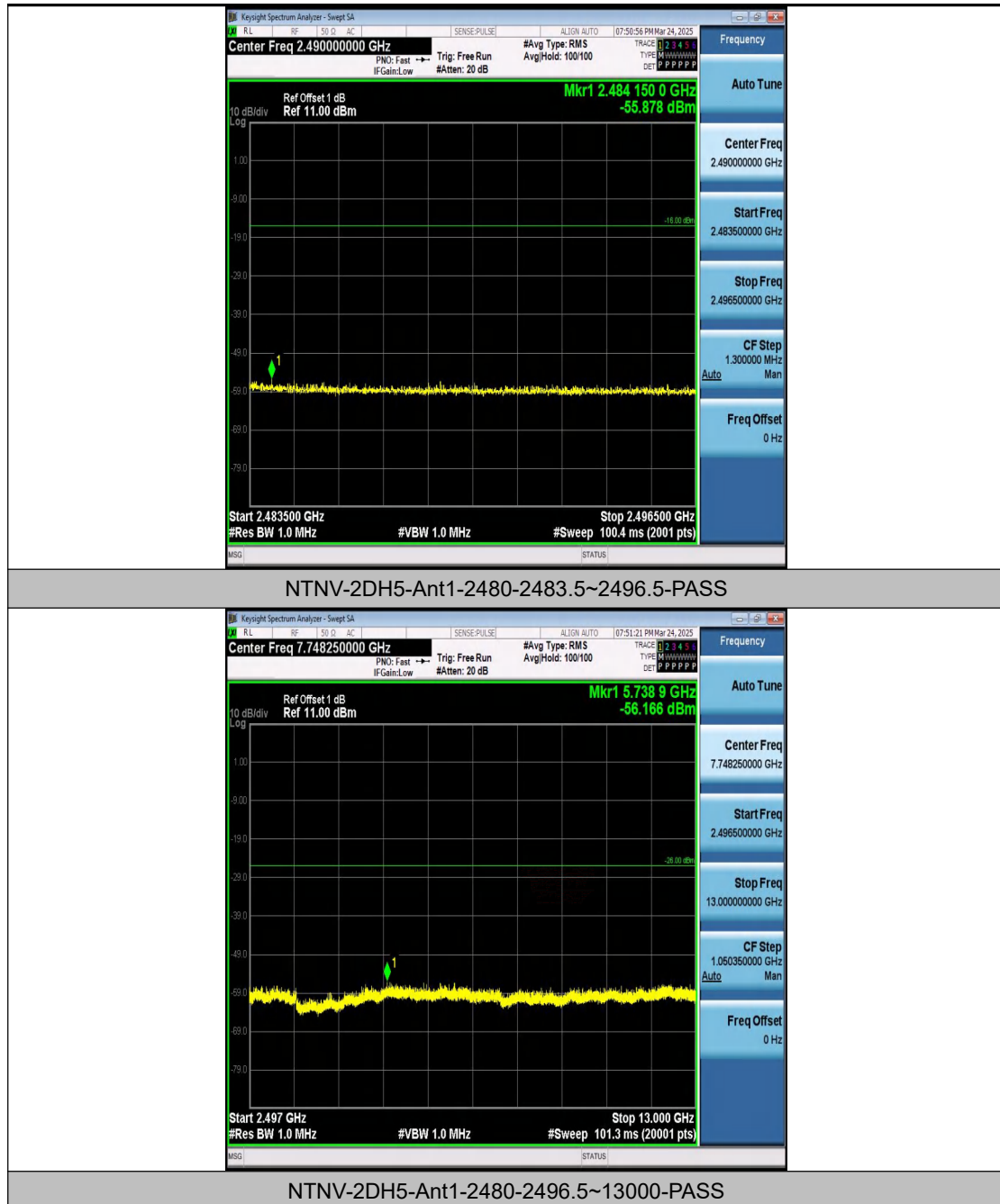


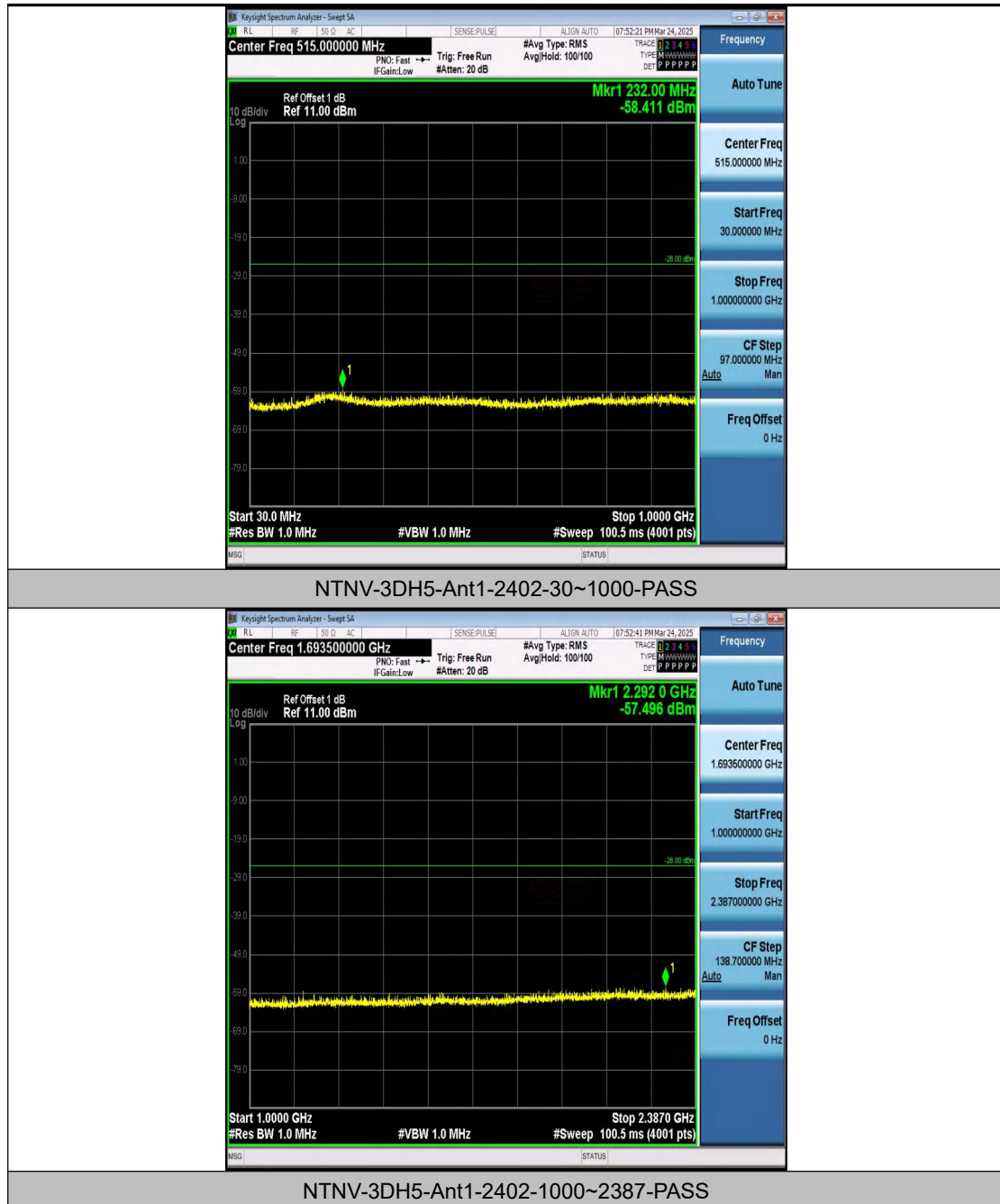


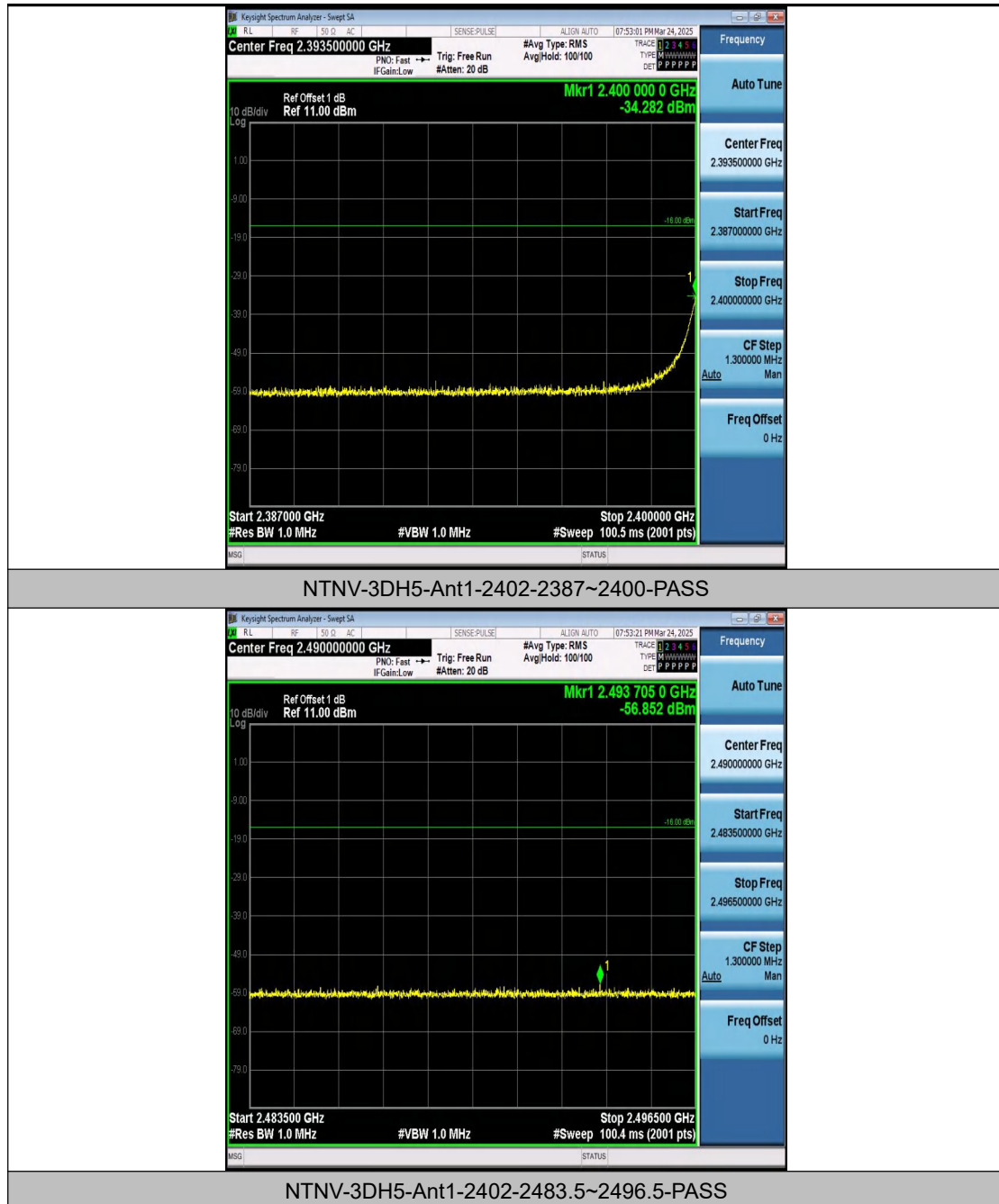


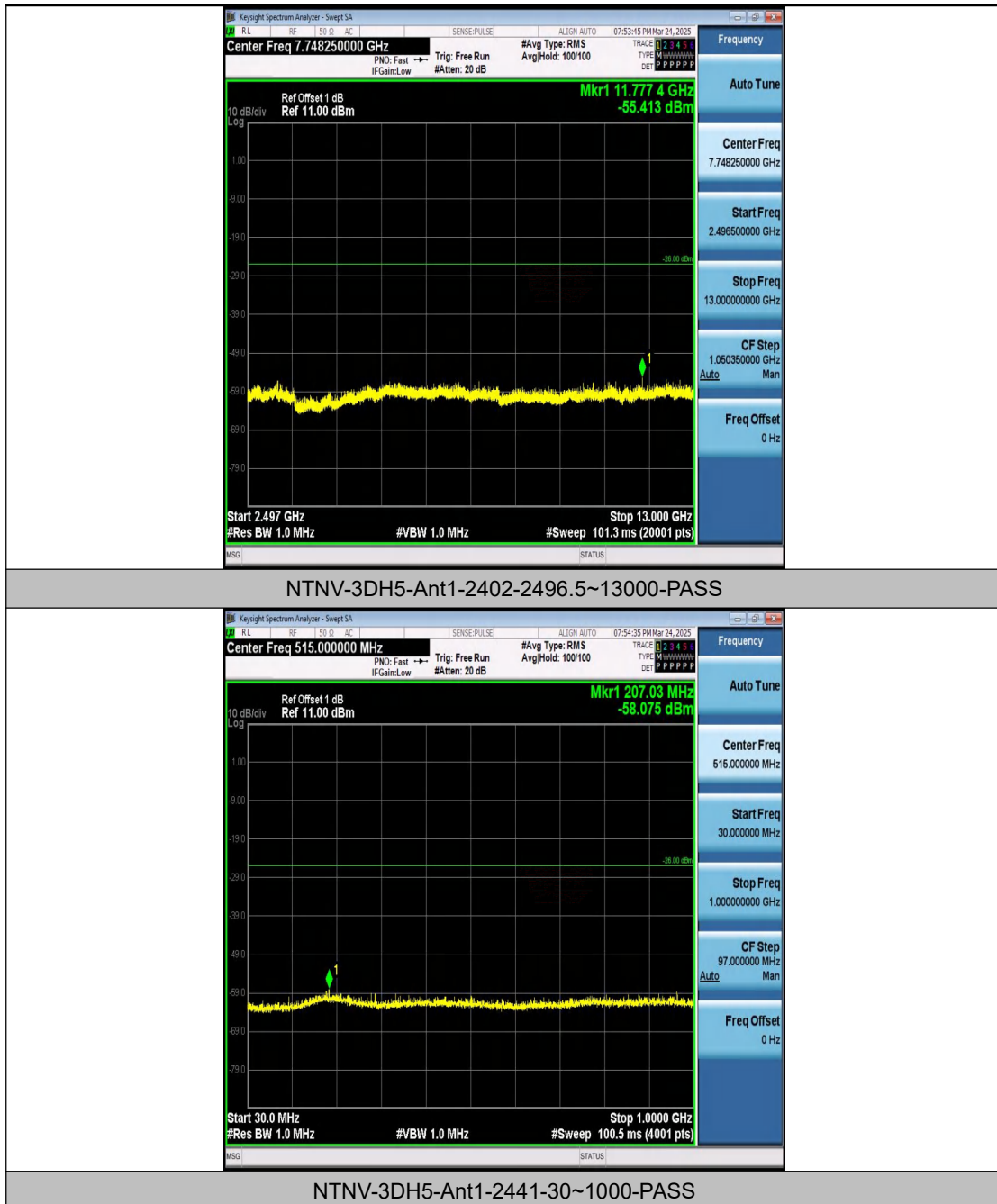


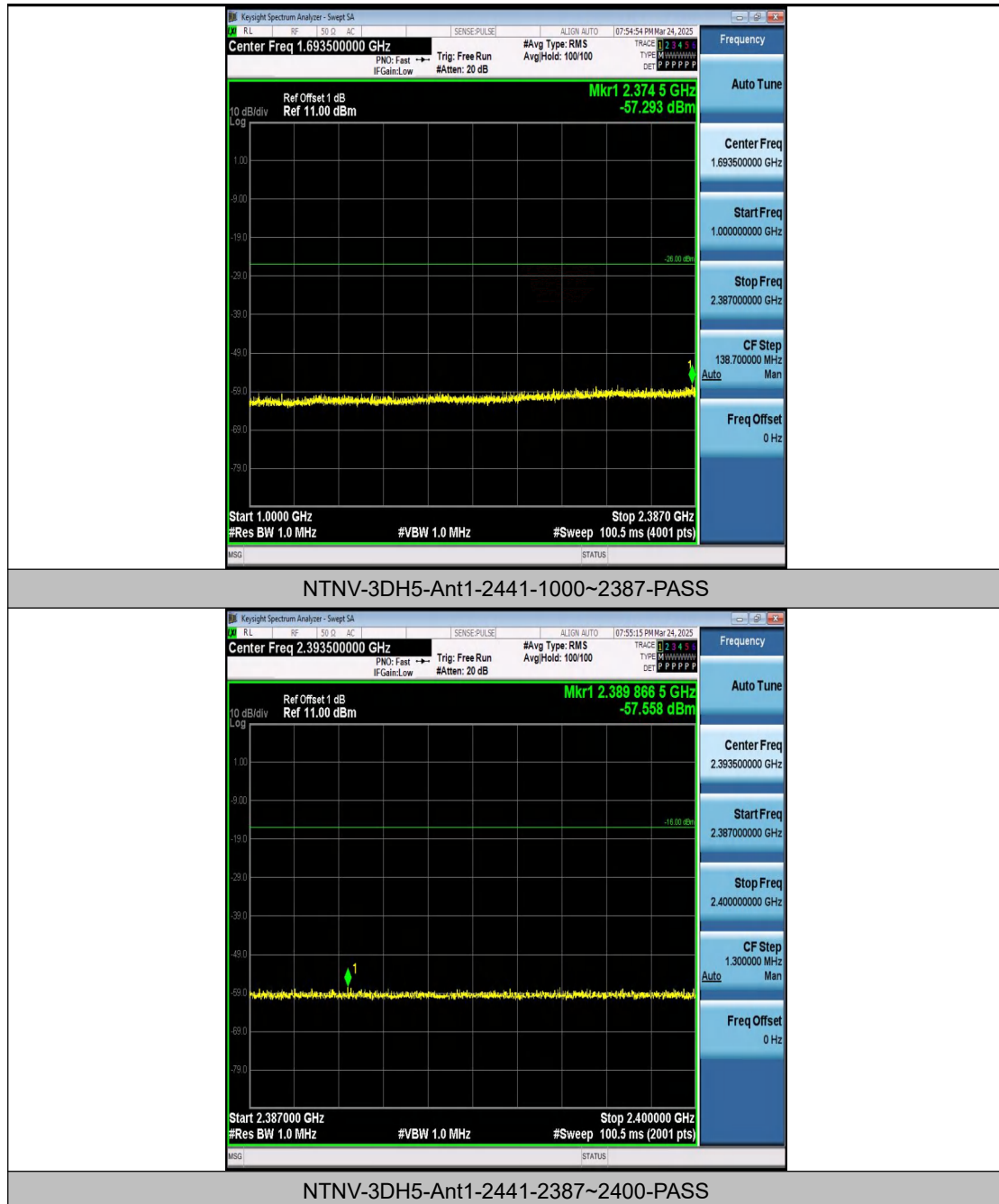


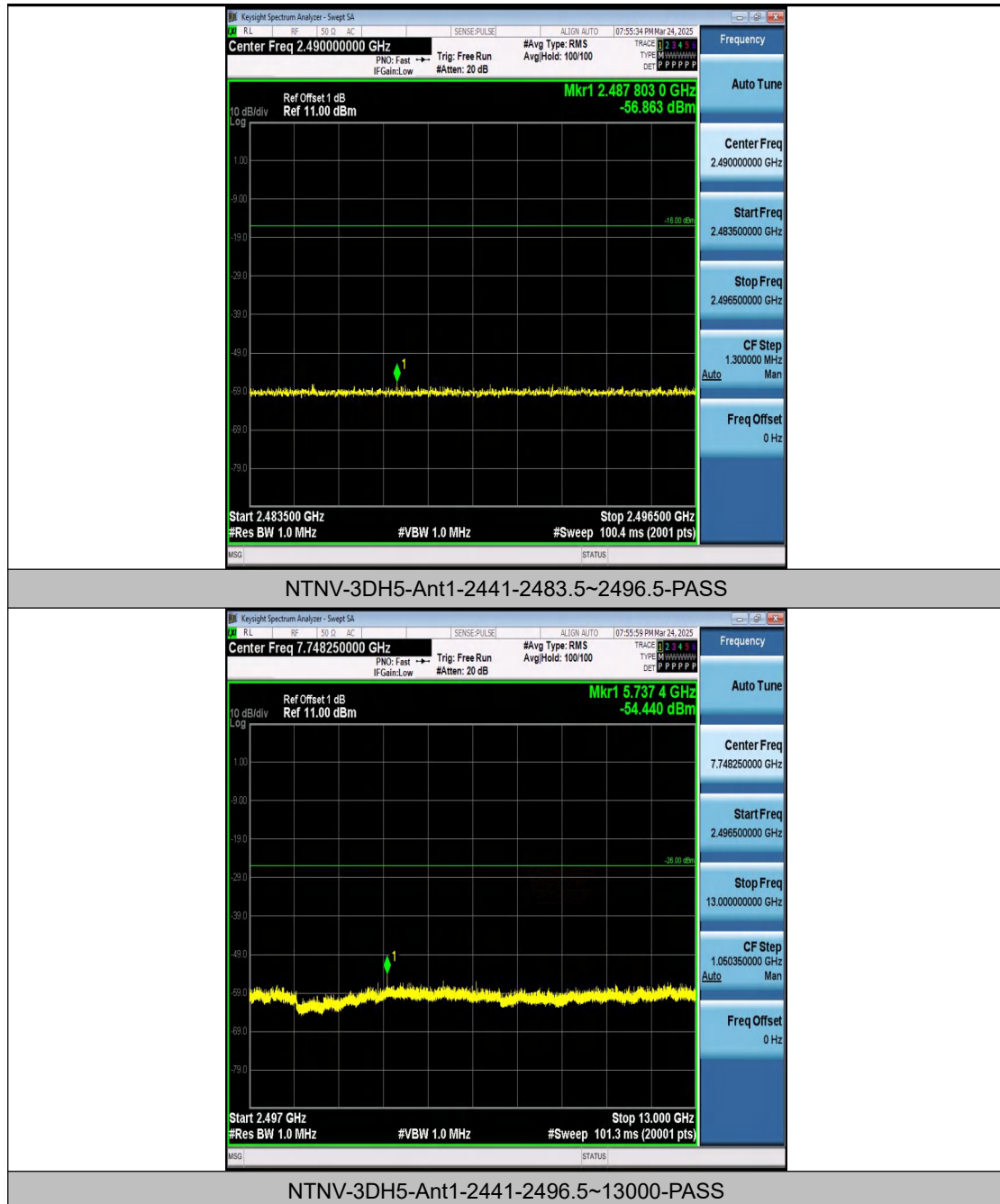


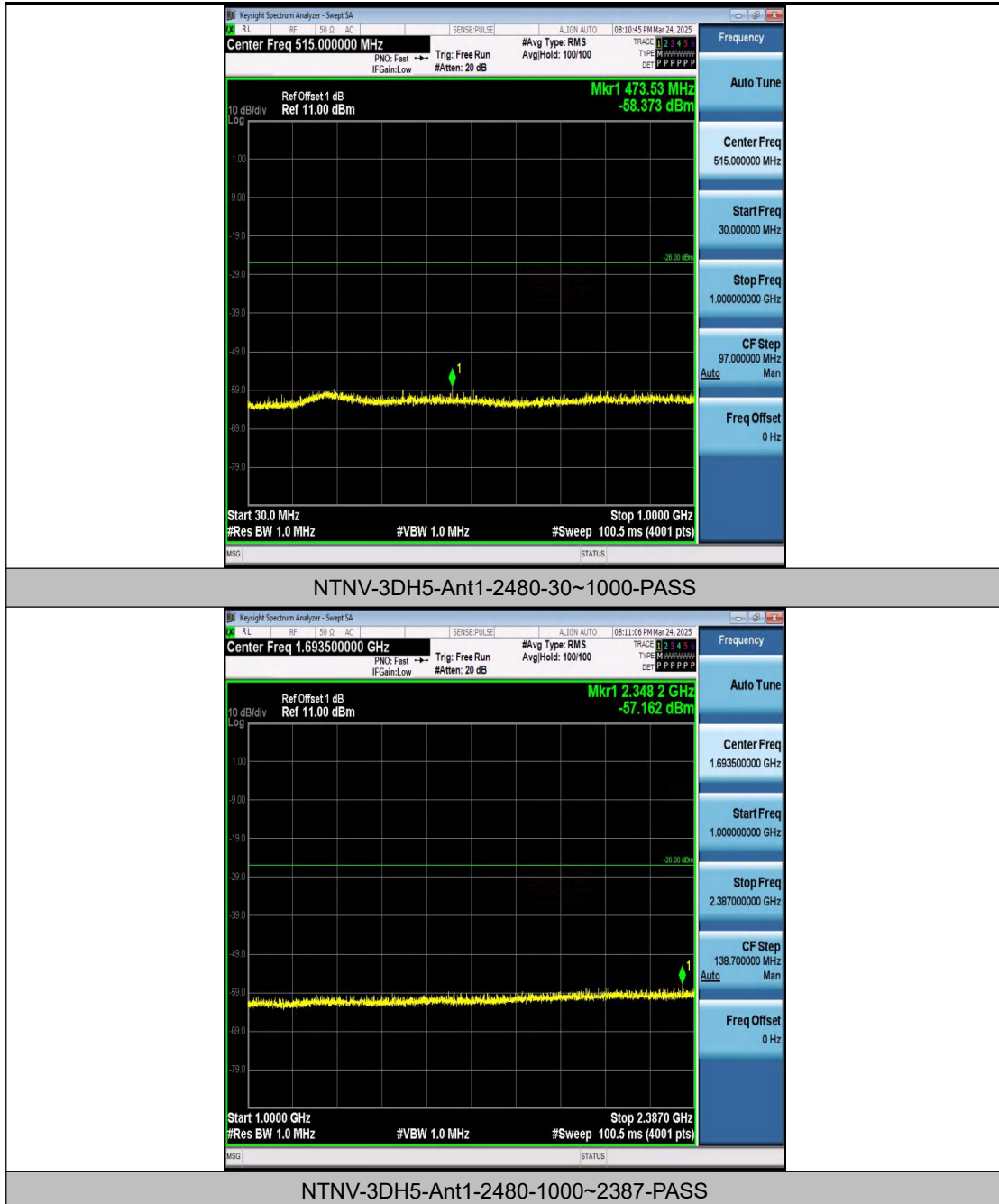


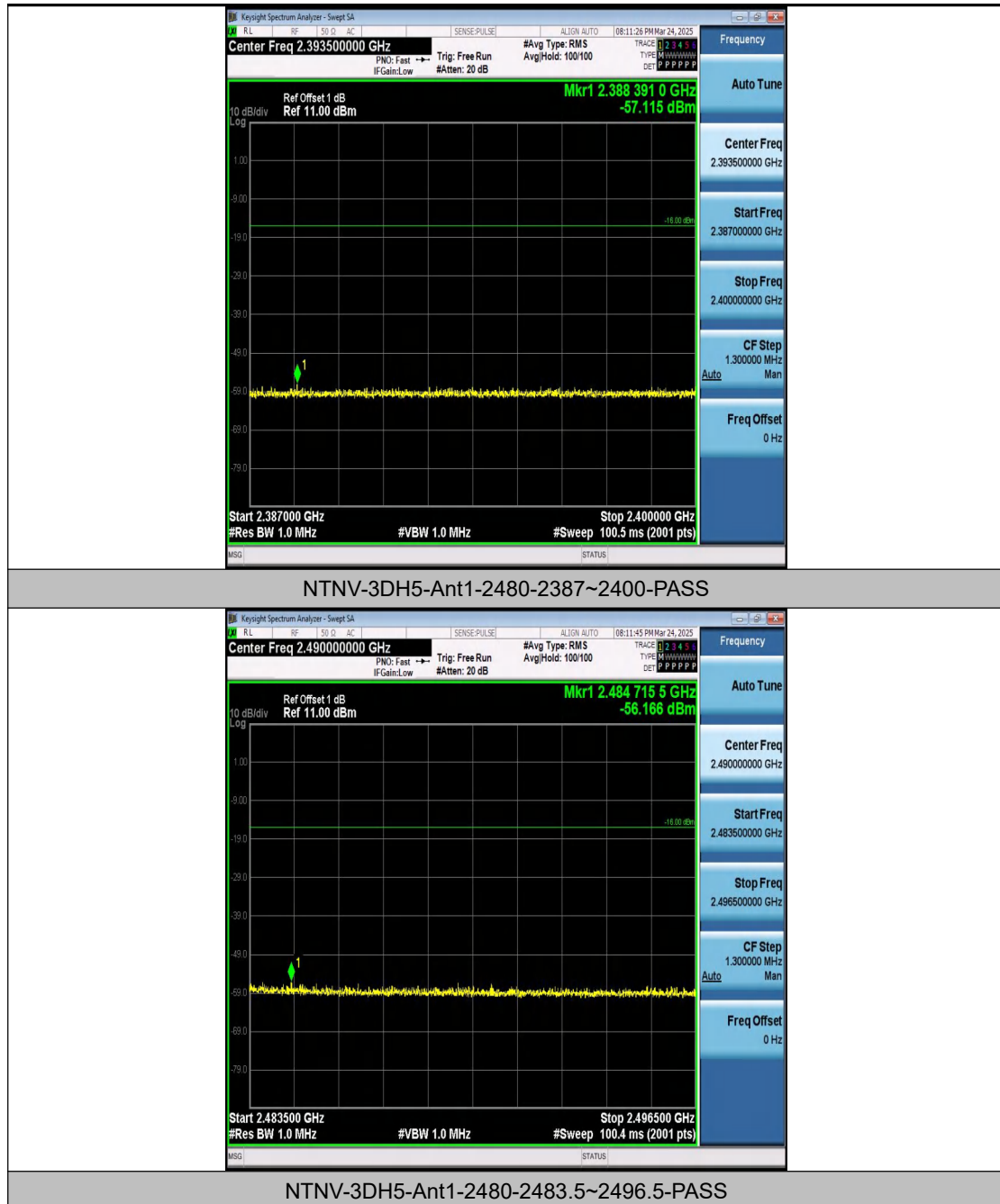


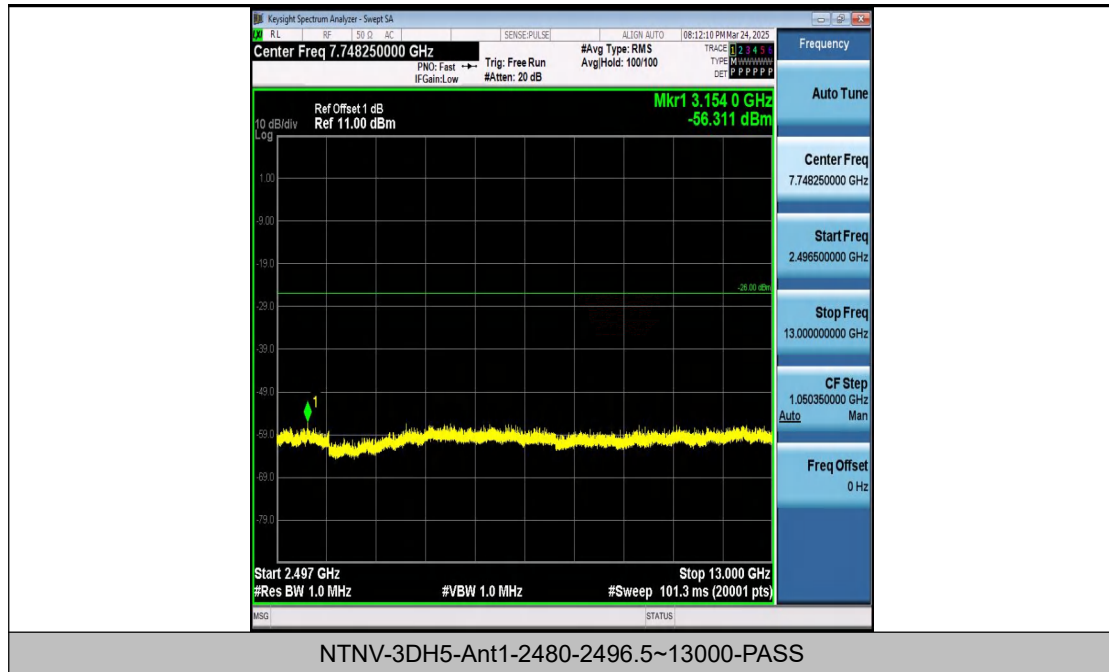












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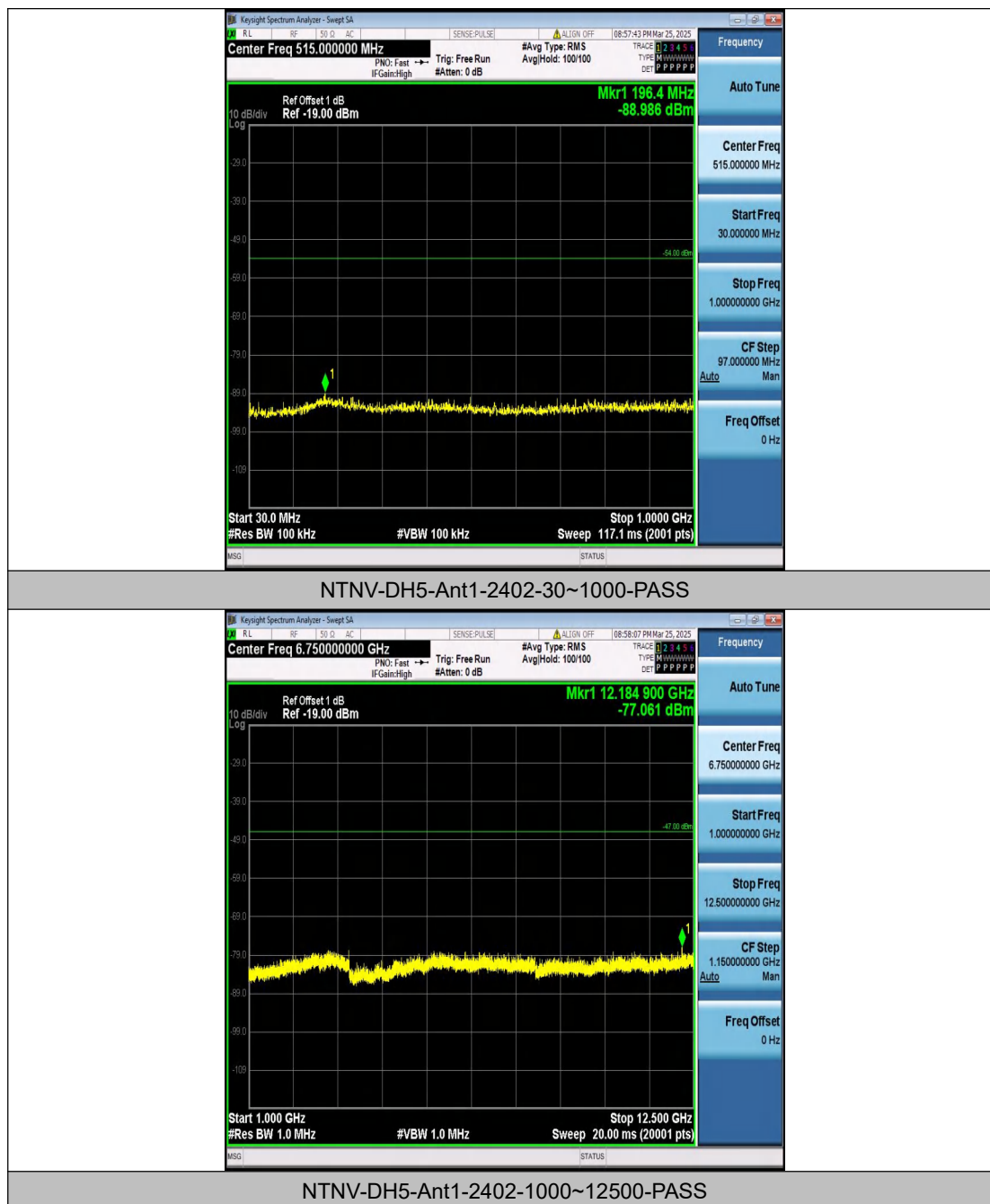
Appendix F: Spurious Emission of RX

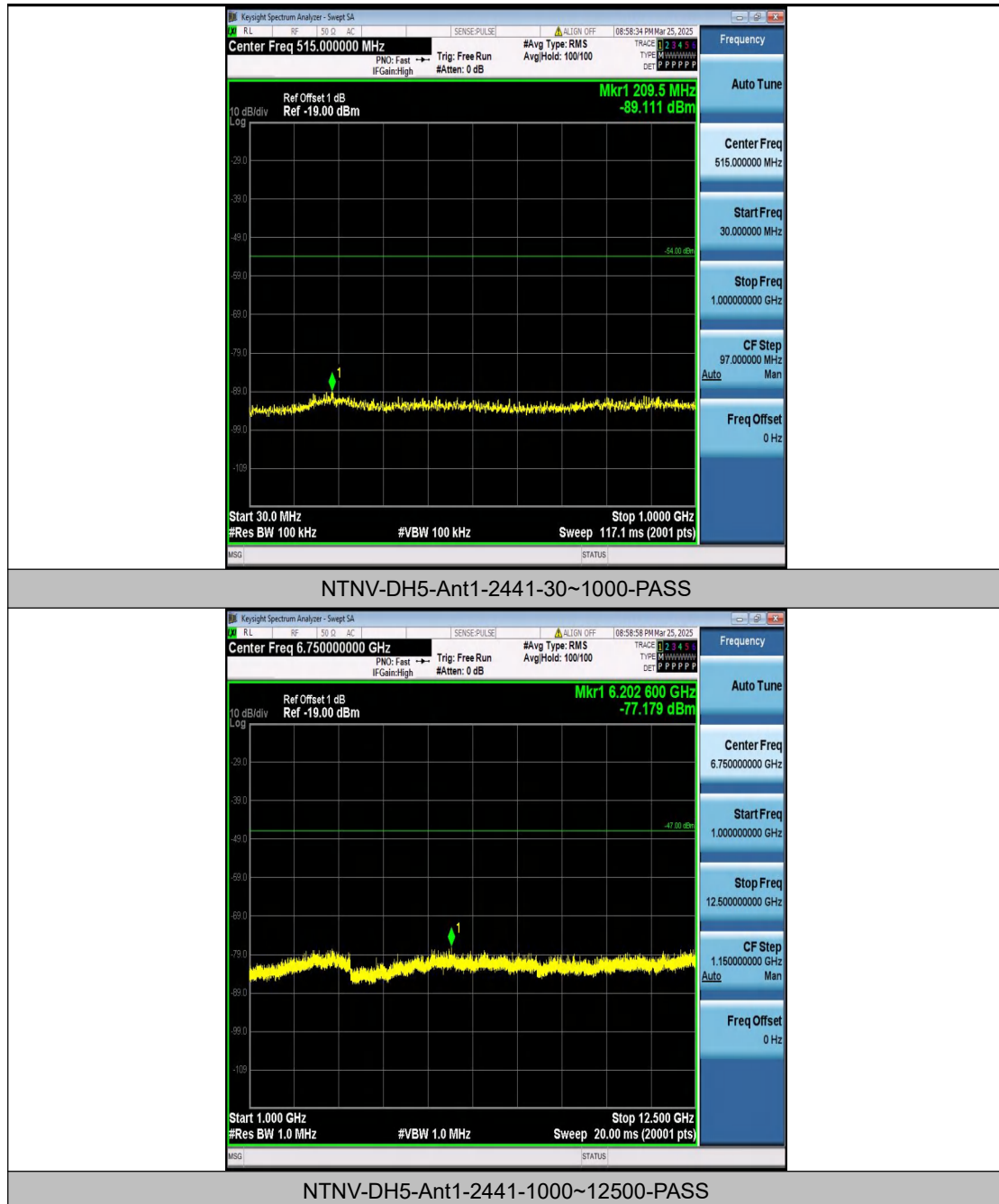
Test Result

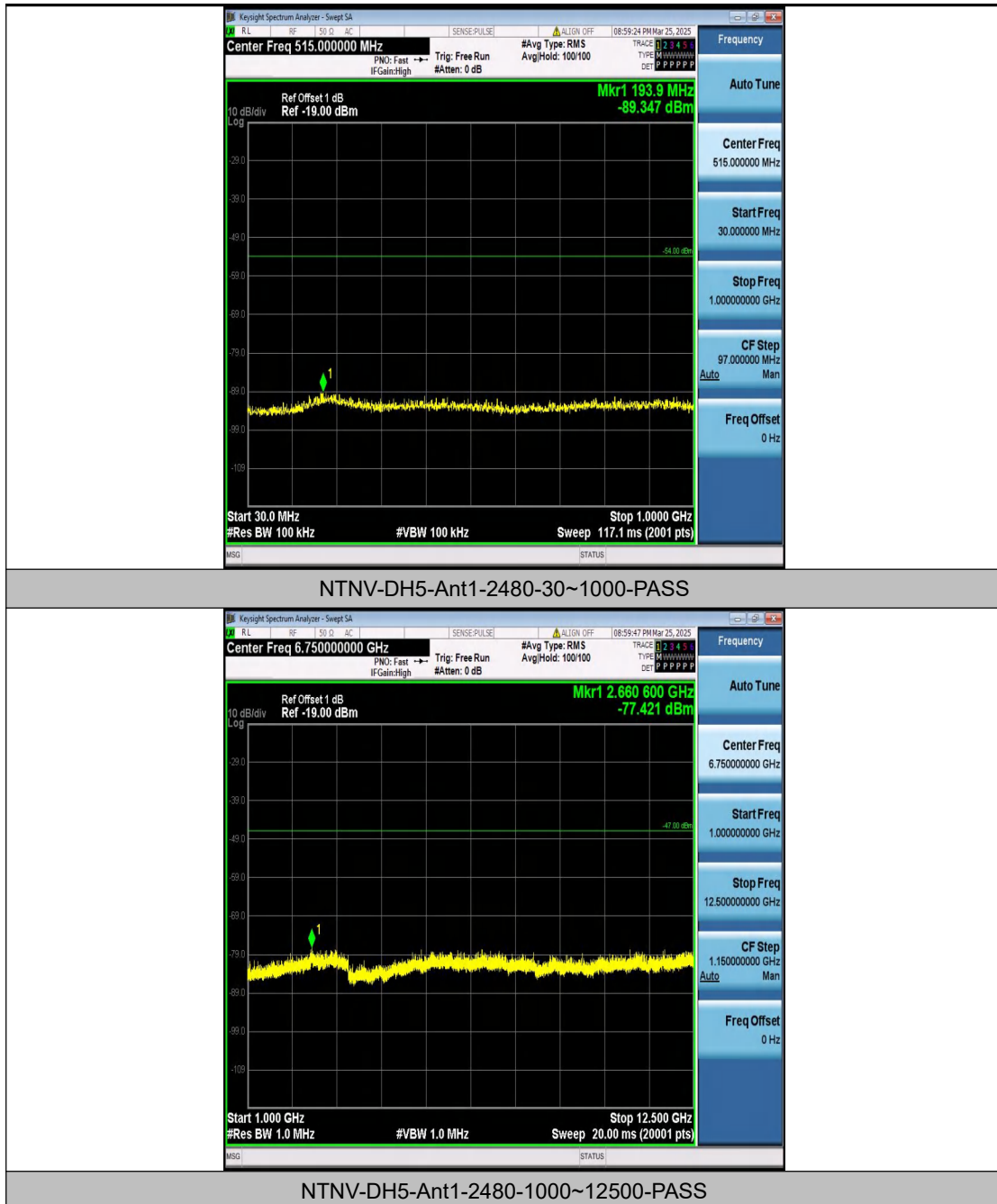
Test Condition	Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	196.36	-88.99	≤-54	0.00126	≤4	PASS
NTNV	DH5	Ant1	2402	1000~12500	12184.90	-77.06	≤-47	0.01968	≤20	PASS
NTNV	DH5	Ant1	2441	30~1000	209.45	-89.11	≤-54	0.00123	≤4	PASS
NTNV	DH5	Ant1	2441	1000~12500	6202.60	-77.18	≤-47	0.01914	≤20	PASS
NTNV	DH5	Ant1	2480	30~1000	193.93	-89.35	≤-54	0.00116	≤4	PASS
NTNV	DH5	Ant1	2480	1000~12500	2660.60	-77.42	≤-47	0.01811	≤20	PASS
NTNV	2DH5	Ant1	2402	30~1000	193.45	-88.59	≤-54	0.00138	≤4	PASS
NTNV	2DH5	Ant1	2402	1000~12500	6091.05	-77.38	≤-47	0.01828	≤20	PASS
NTNV	2DH5	Ant1	2441	30~1000	226.91	-89.56	≤-54	0.00111	≤4	PASS
NTNV	2DH5	Ant1	2441	1000~12500	11991.70	-76.73	≤-47	0.02123	≤20	PASS
NTNV	2DH5	Ant1	2480	30~1000	208.48	-89.12	≤-54	0.00122	≤4	PASS
NTNV	2DH5	Ant1	2480	1000~12500	12146.38	-77.36	≤-47	0.01837	≤20	PASS
NTNV	3DH5	Ant1	2402	30~1000	218.18	-89.43	≤-54	0.00114	≤4	PASS
NTNV	3DH5	Ant1	2402	1000~12500	3226.40	-77.27	≤-47	0.01875	≤20	PASS
NTNV	3DH5	Ant1	2441	30~1000	213.33	-89.31	≤-54	0.00117	≤4	PASS
NTNV	3DH5	Ant1	2441	1000~12500	7001.85	-76.65	≤-47	0.02163	≤20	PASS
NTNV	3DH5	Ant1	2480	30~1000	189.08	-89.11	≤-54	0.00123	≤4	PASS
NTNV	3DH5	Ant1	2480	1000~12500	2666.35	-77.62	≤-47	0.01730	≤20	PASS

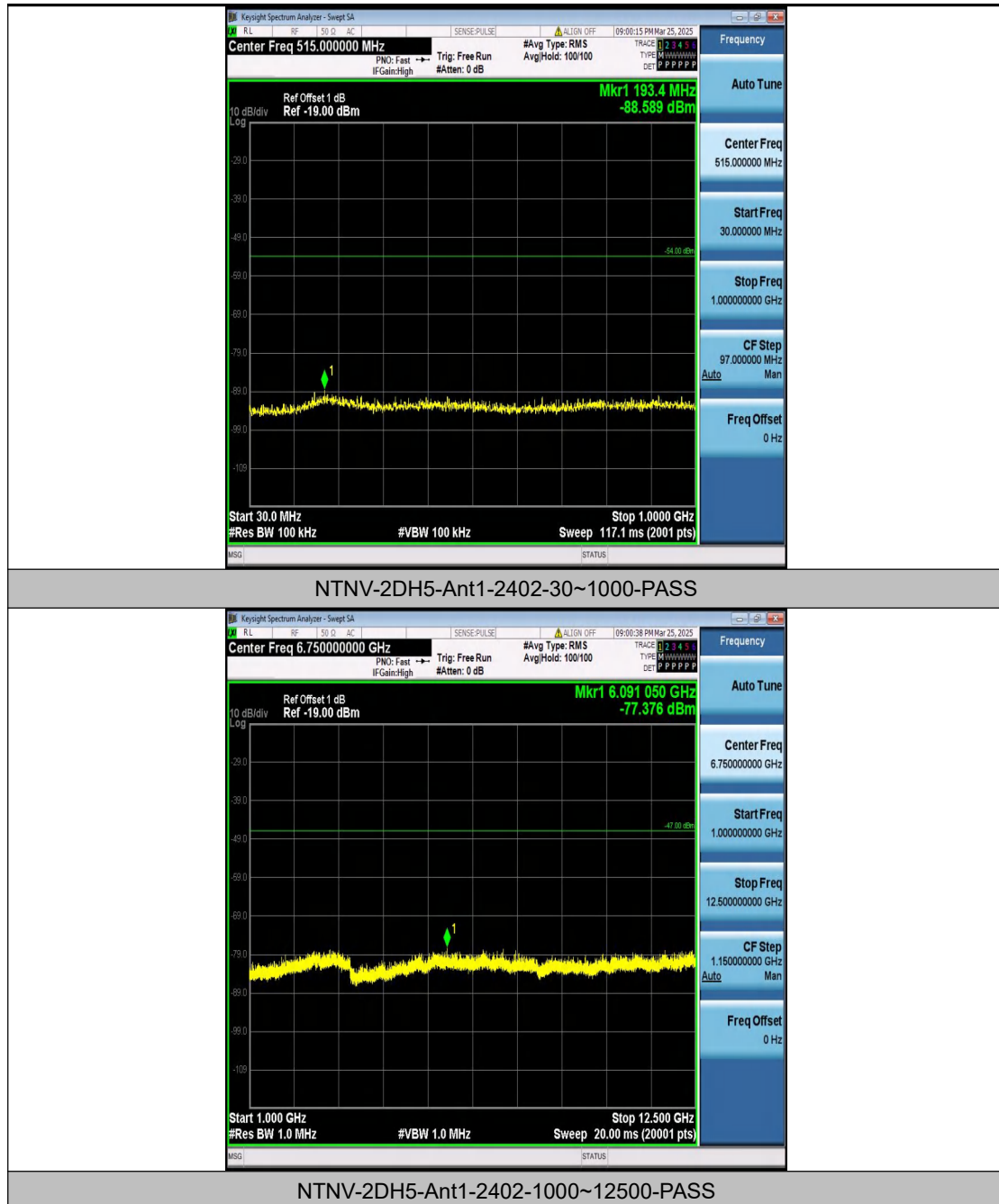


Test Graphs







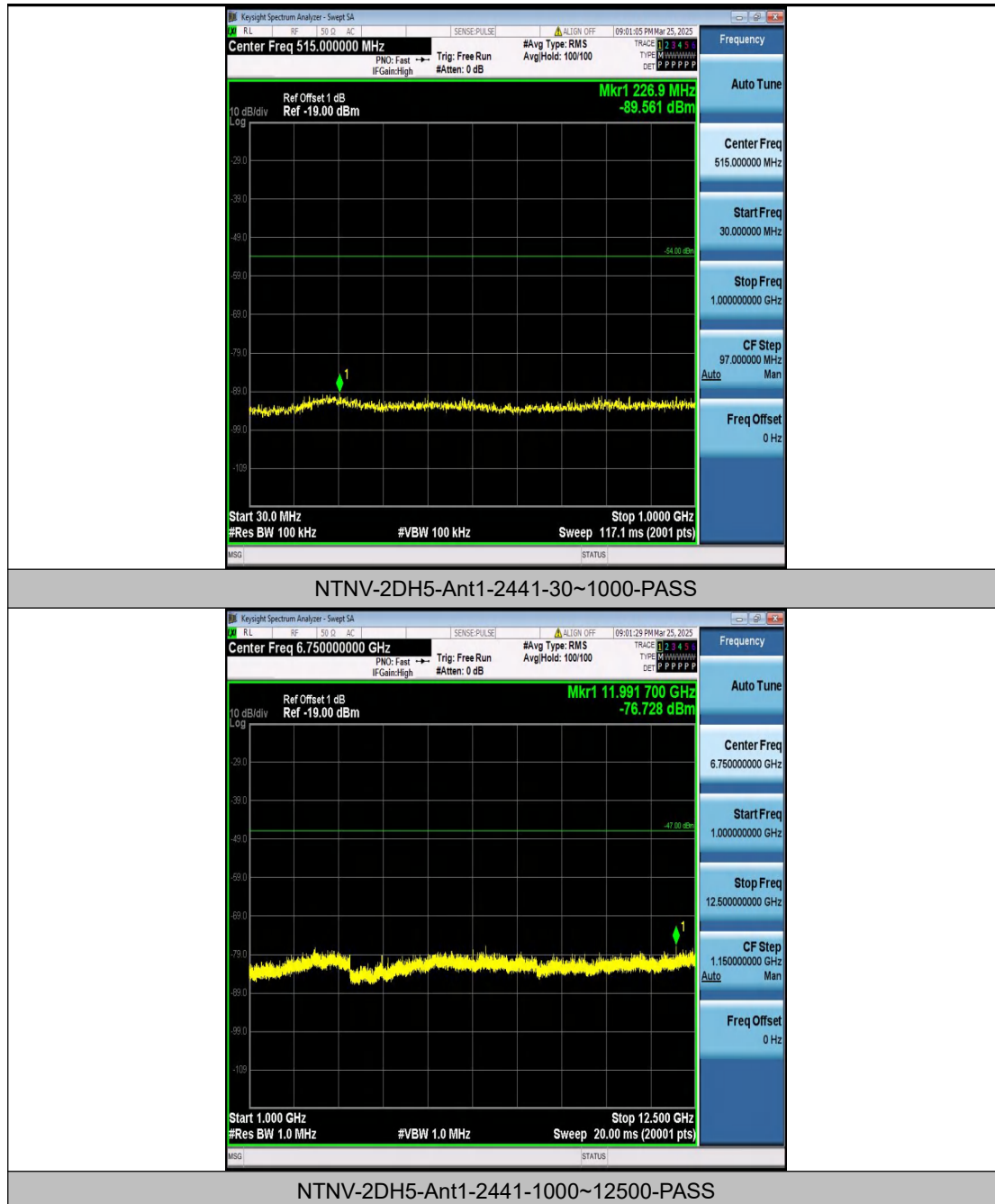


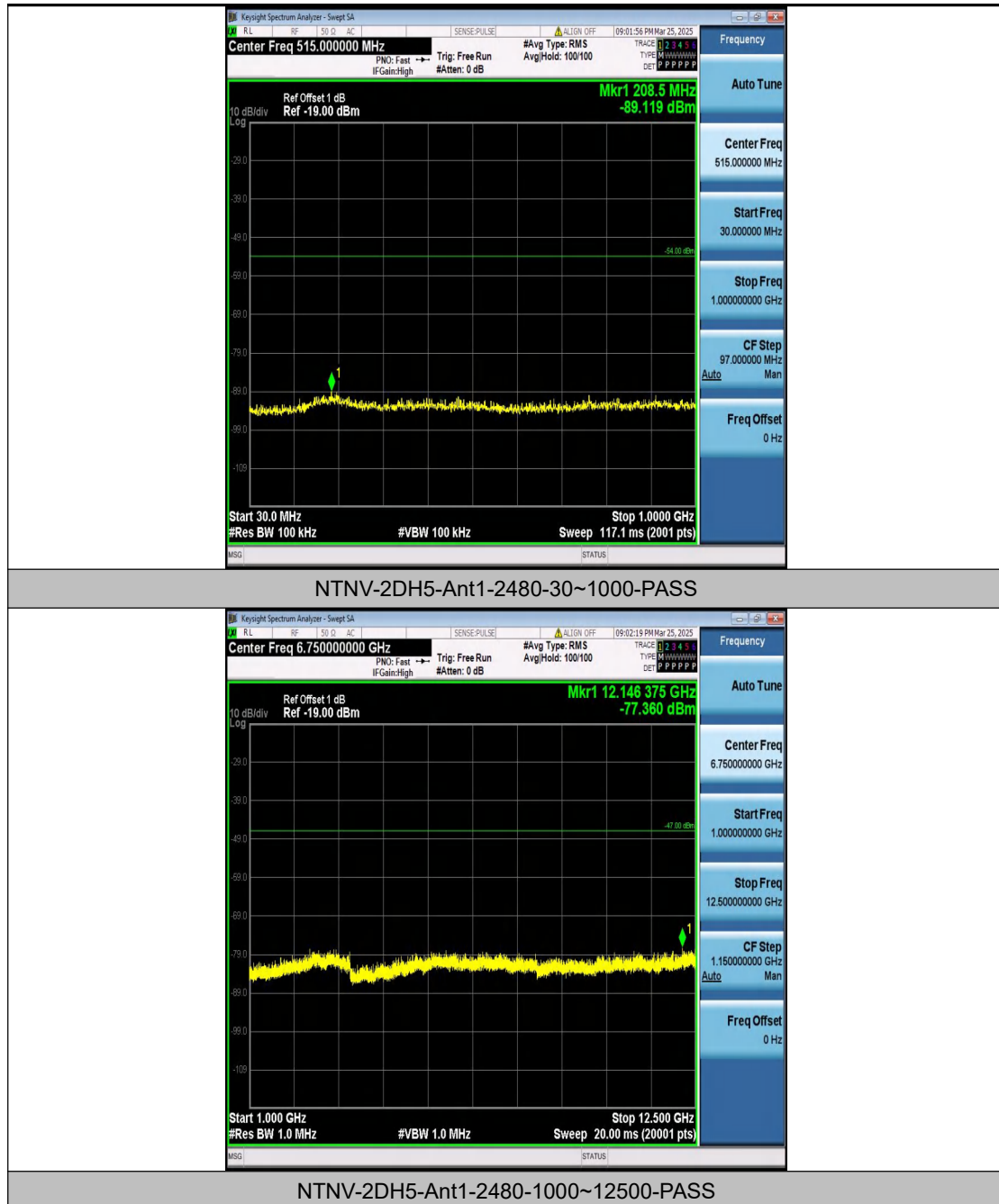
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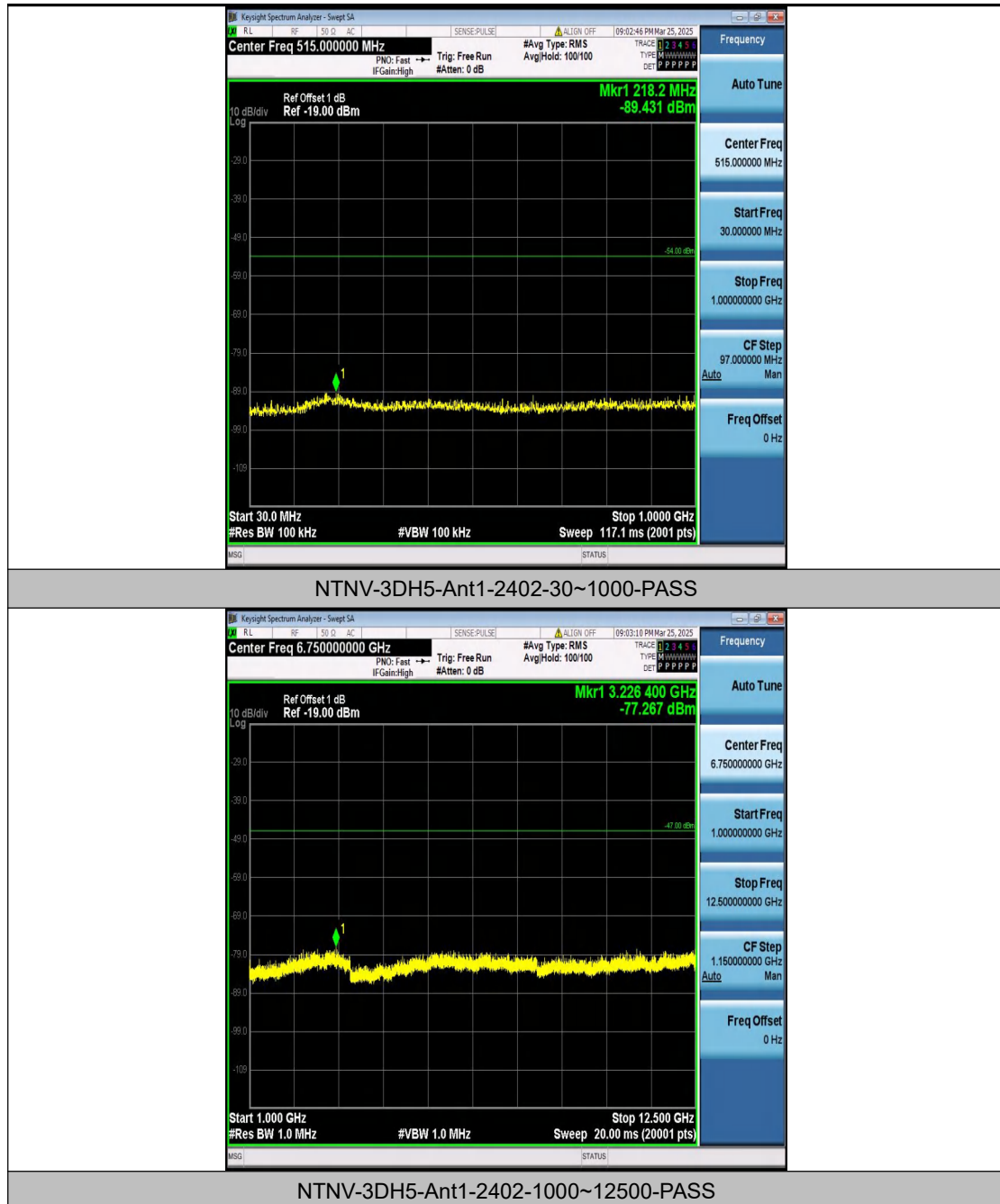
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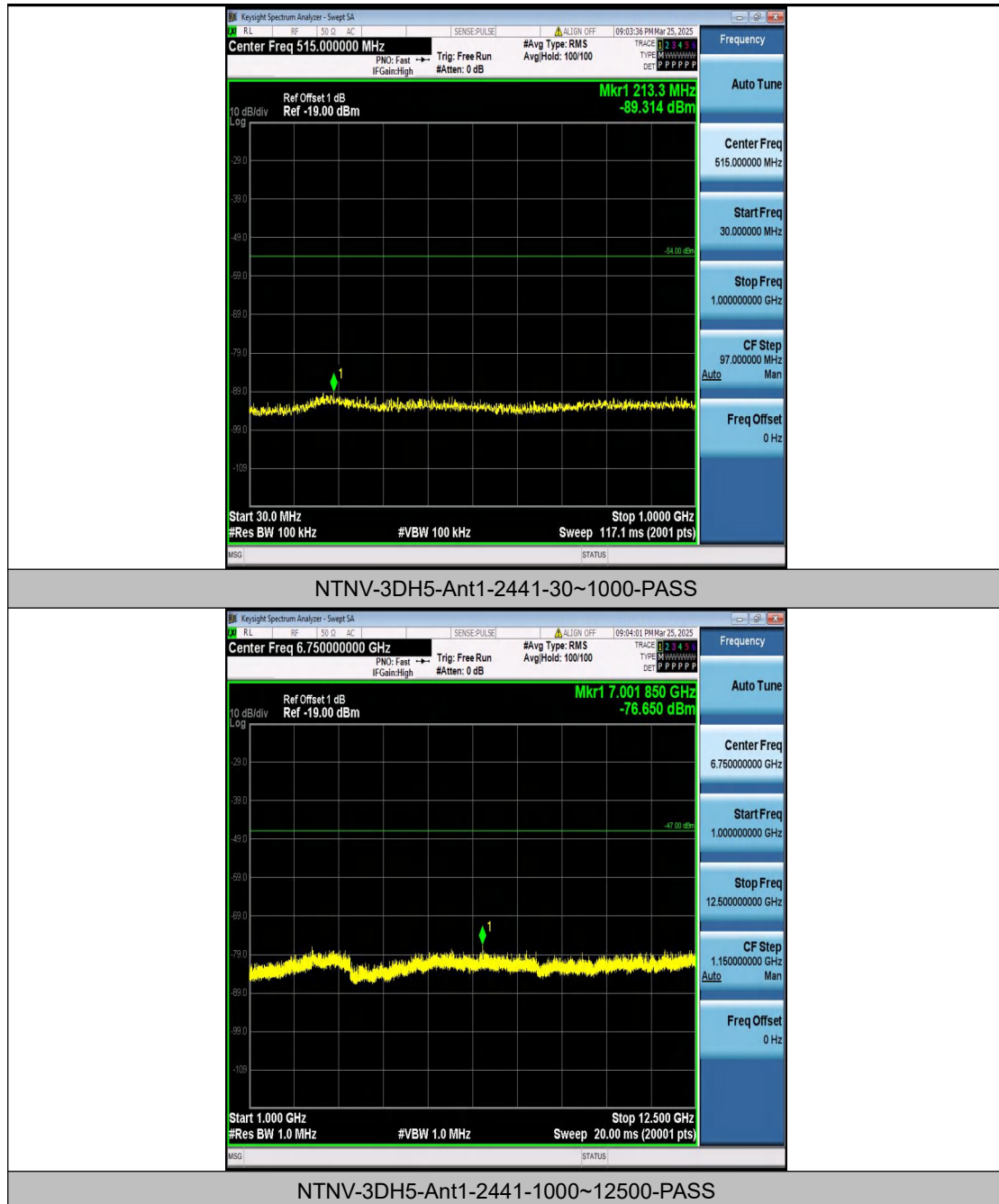


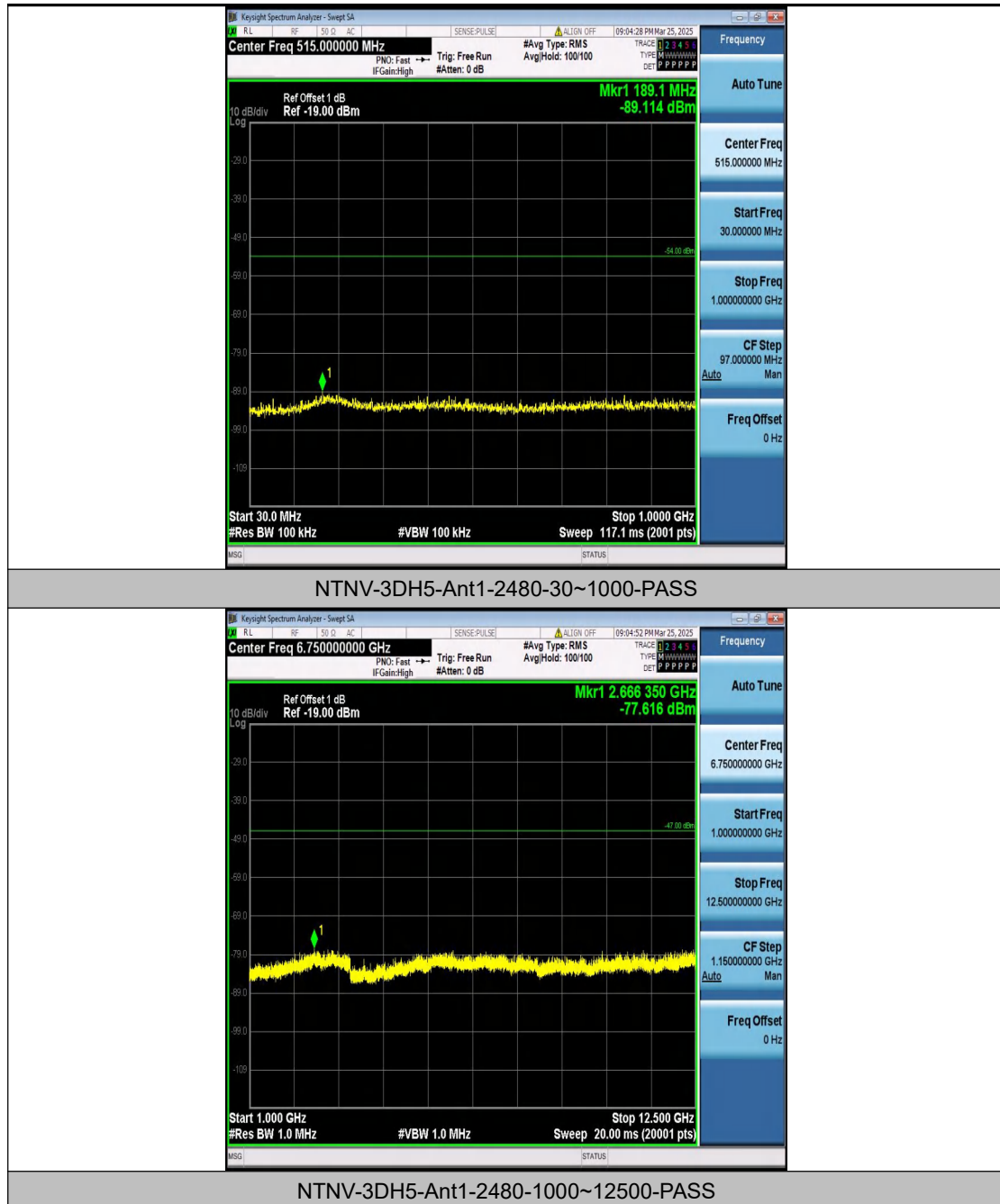
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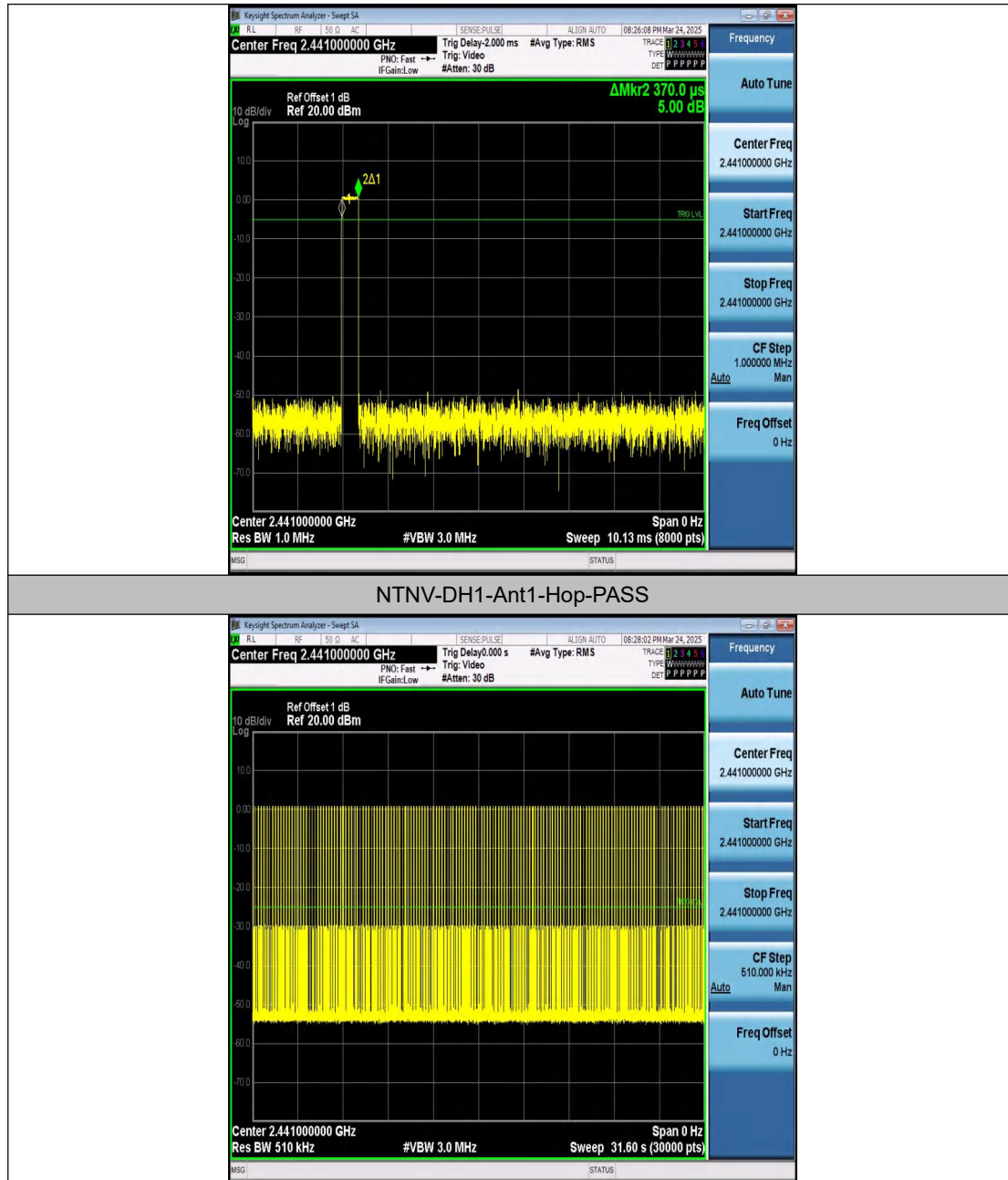
Appendix G: Dwell Time

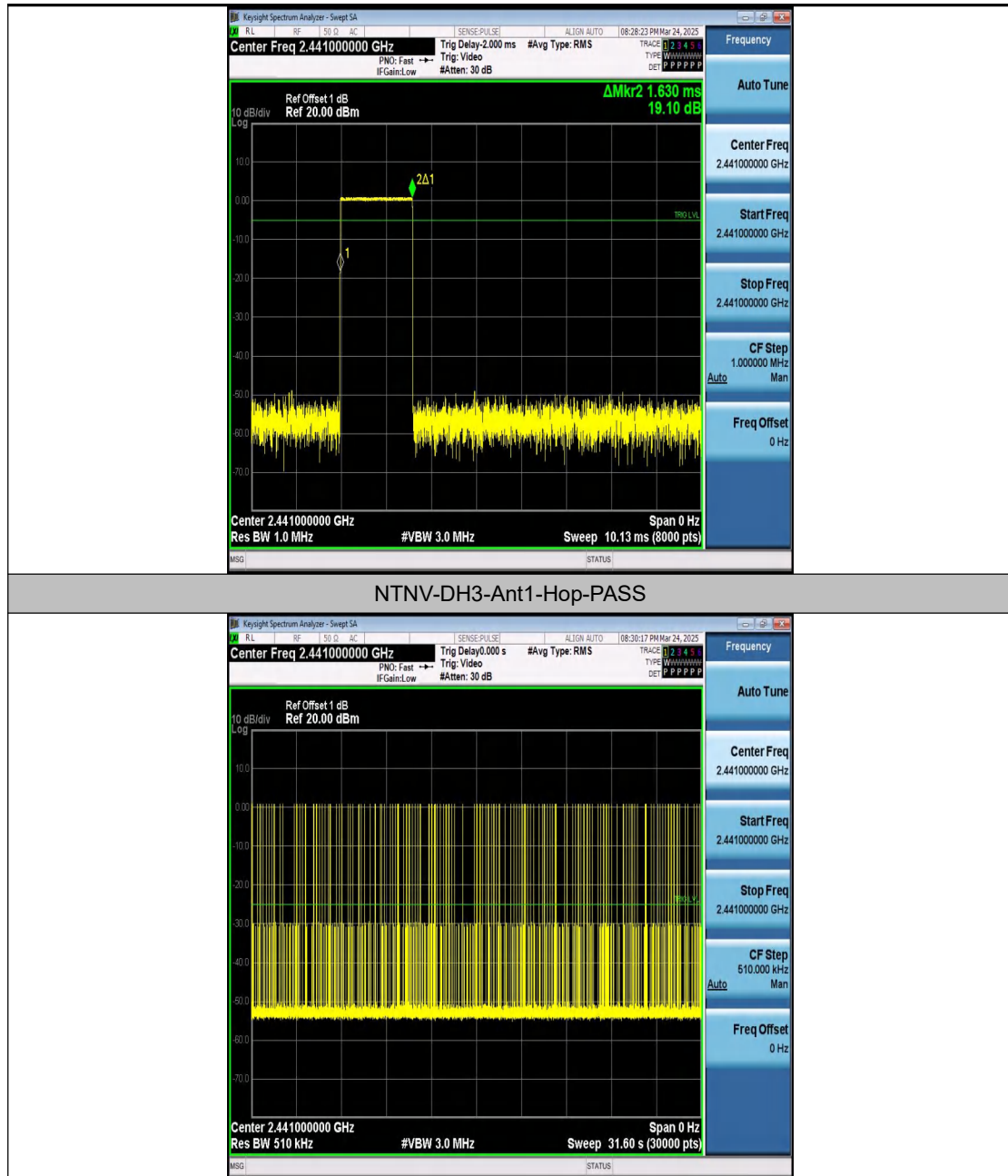
Test Result

Test Condition	Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH1	Ant1	Hop	0.37	317	0.117	≤0.4	PASS
NTNV	DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
NTNV	DH5	Ant1	Hop	2.88	105	0.302	≤0.4	PASS
NTNV	2DH1	Ant1	Hop	0.38	317	0.12	≤0.4	PASS
NTNV	2DH3	Ant1	Hop	1.63	161	0.262	≤0.4	PASS
NTNV	2DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
NTNV	3DH1	Ant1	Hop	0.38	317	0.12	≤0.4	PASS
NTNV	3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
NTNV	3DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS



Test Graphs



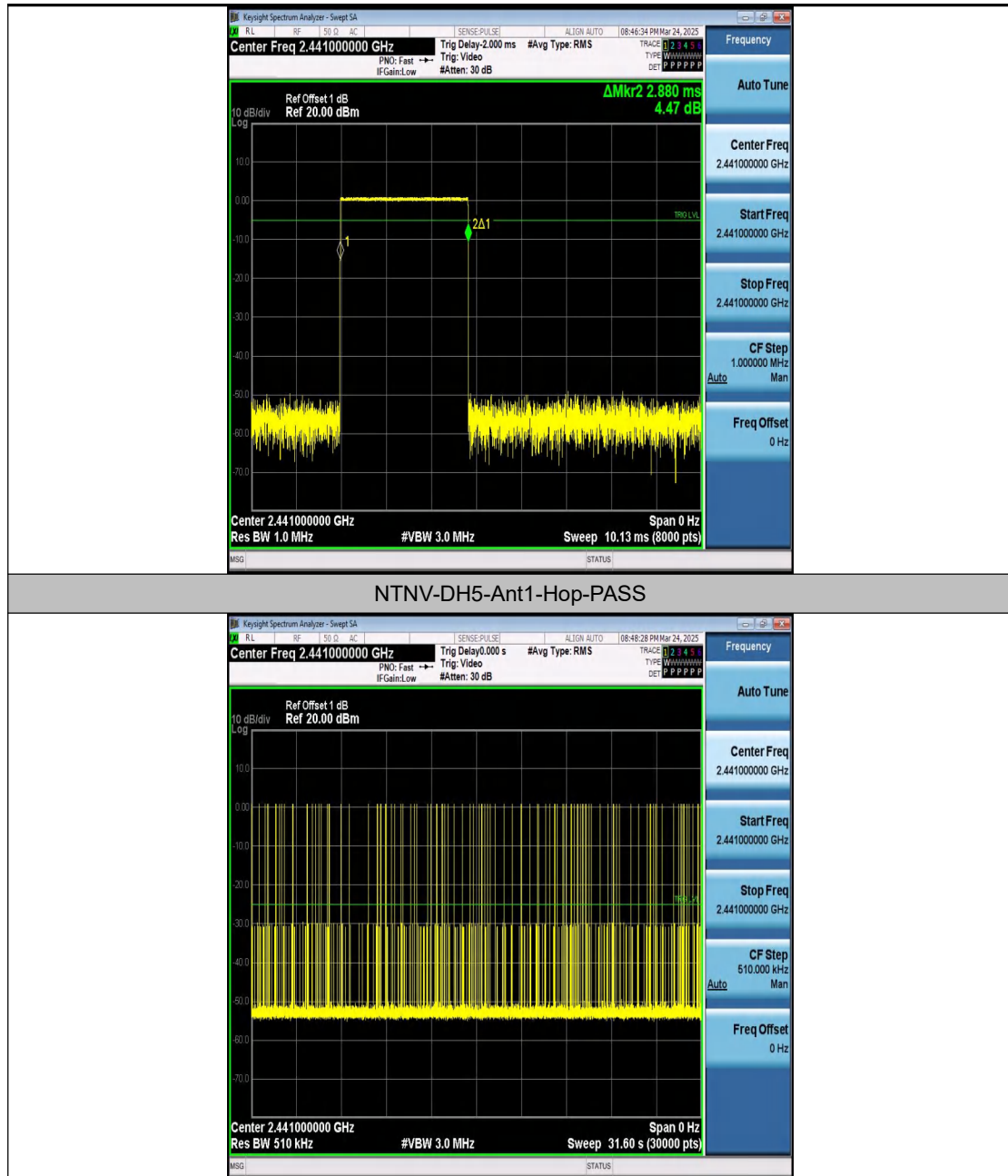


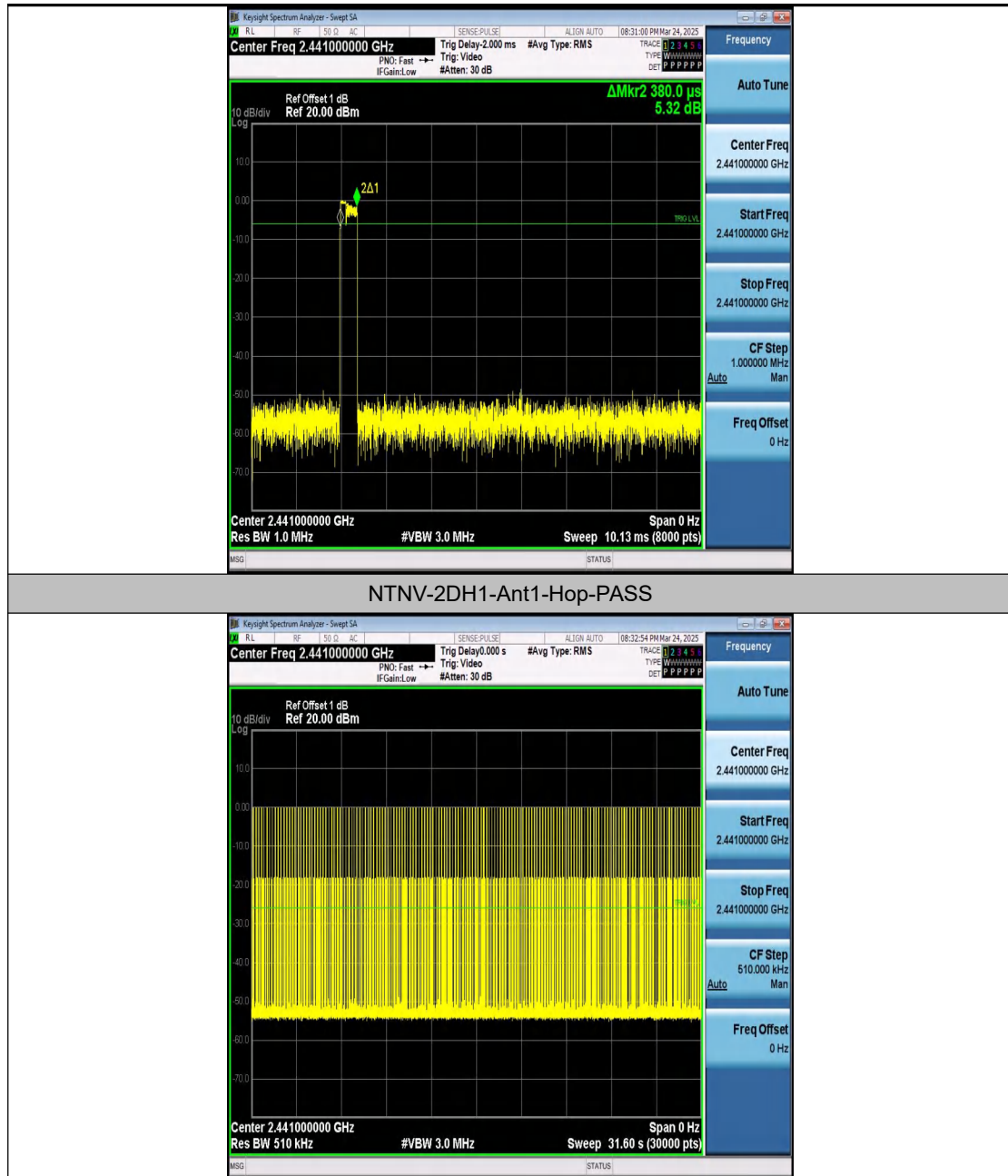
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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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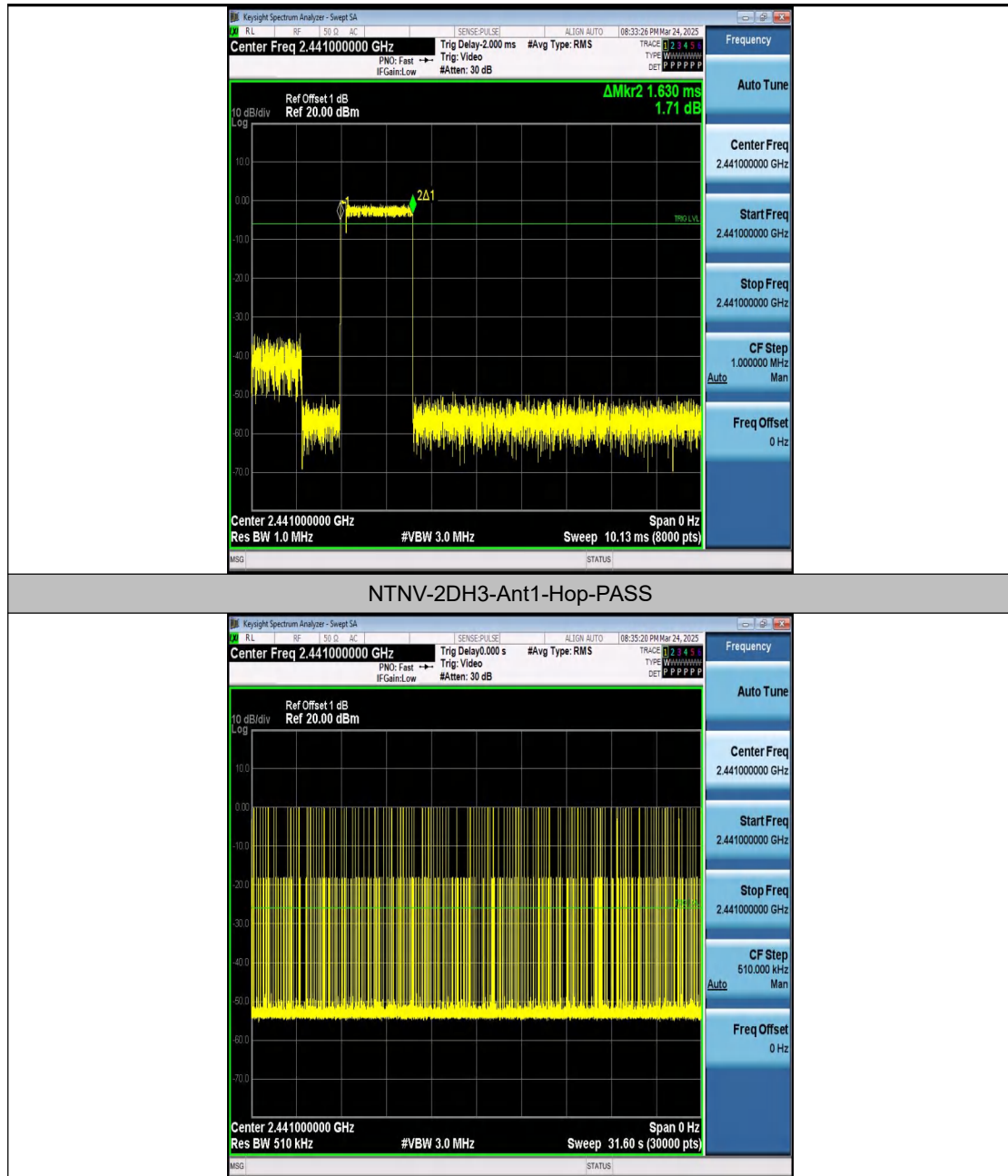
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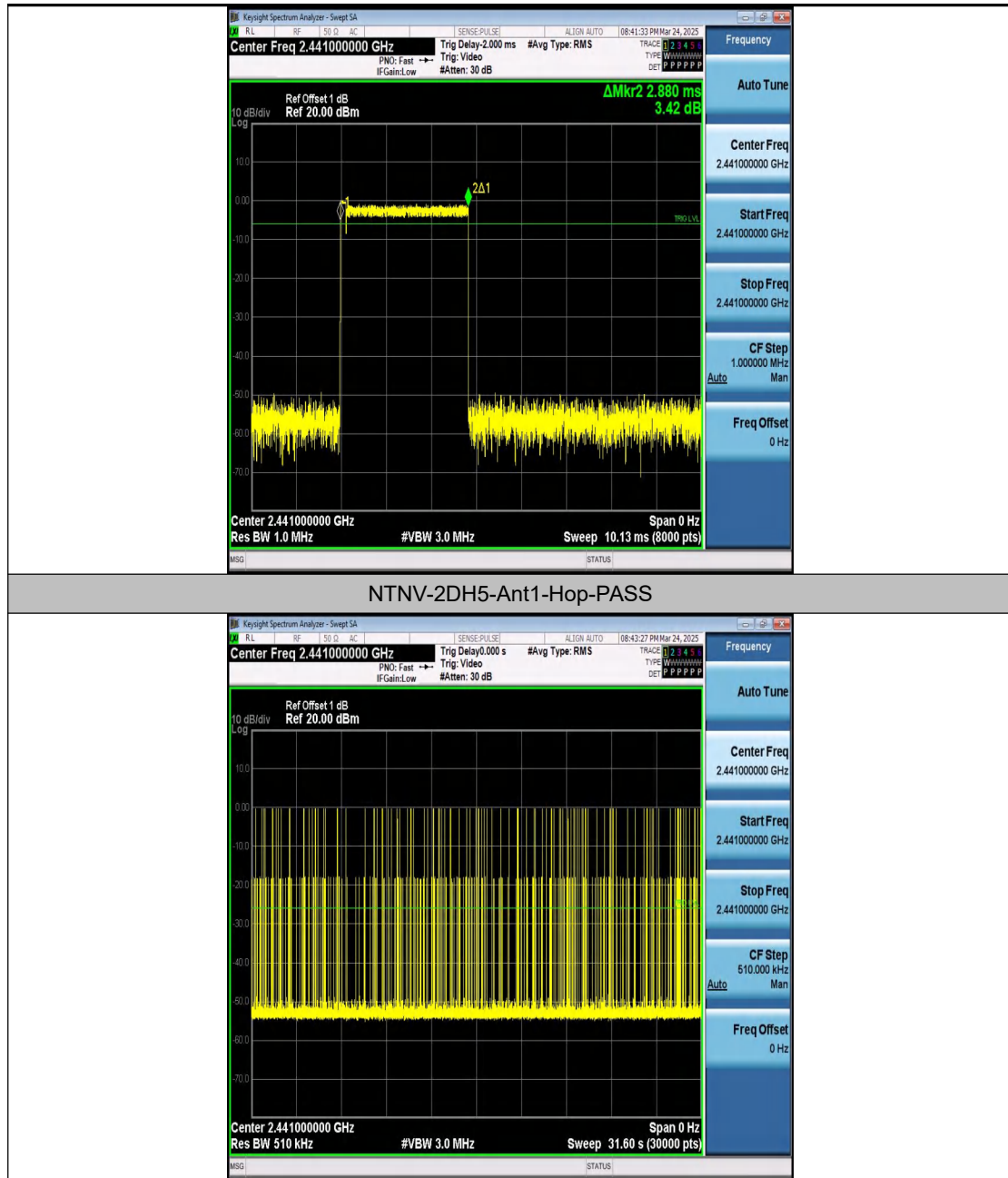
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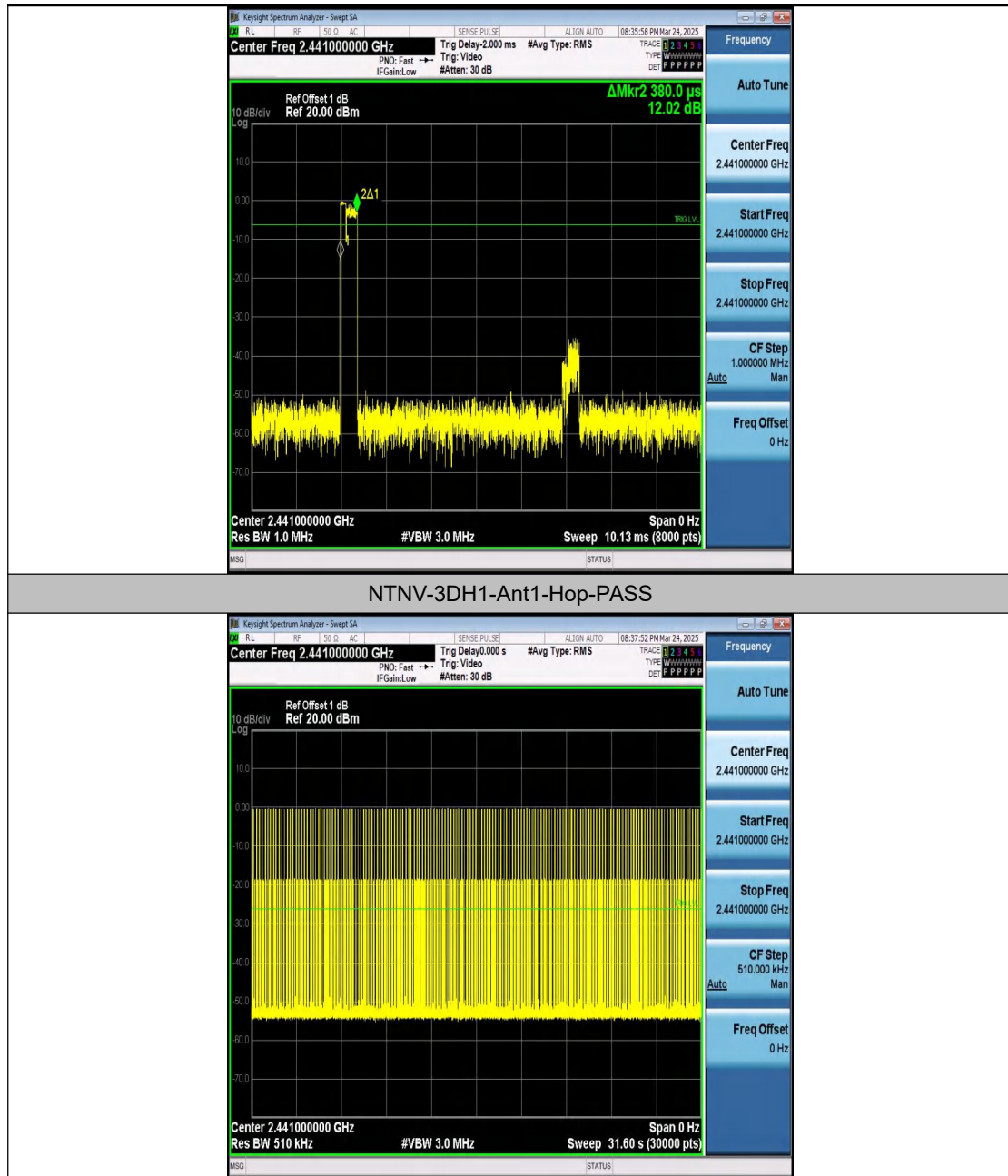
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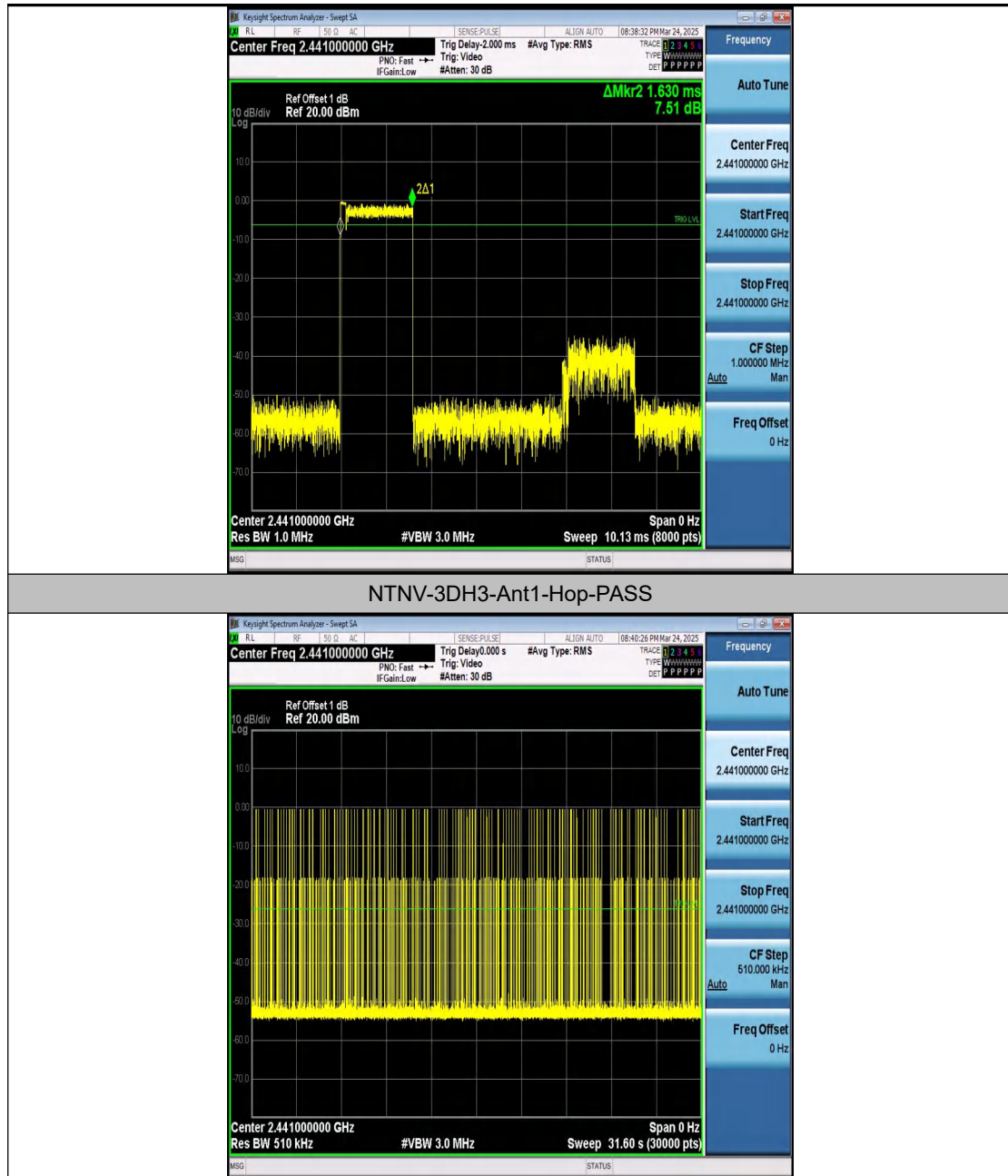
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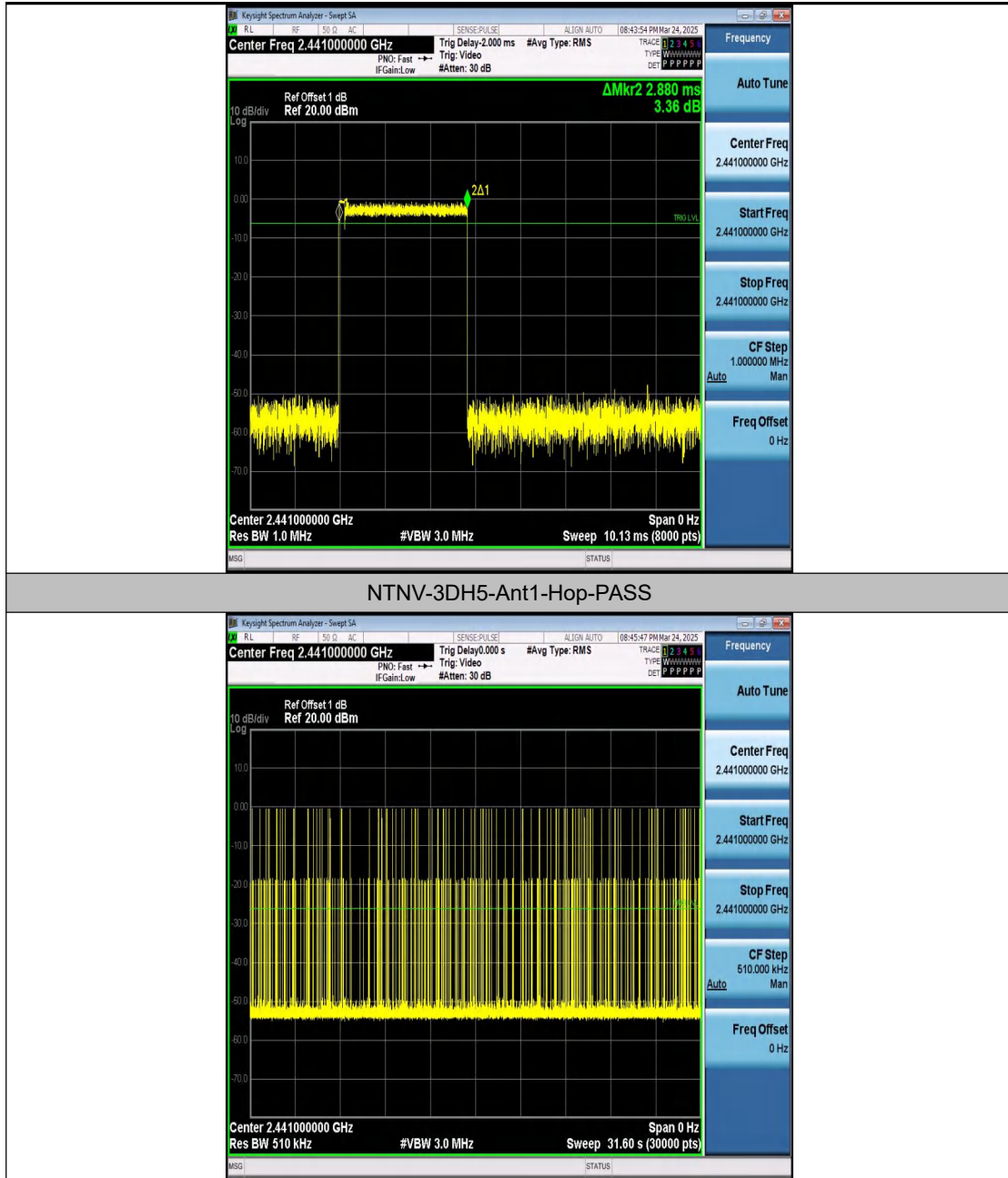
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