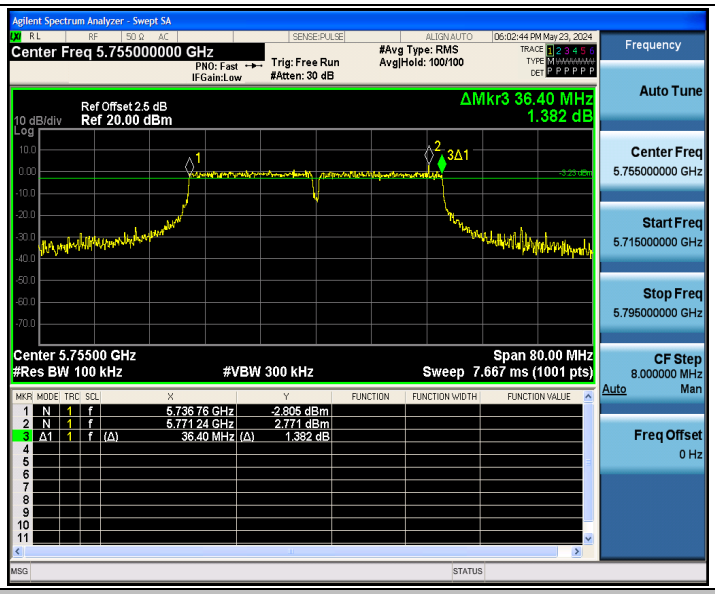

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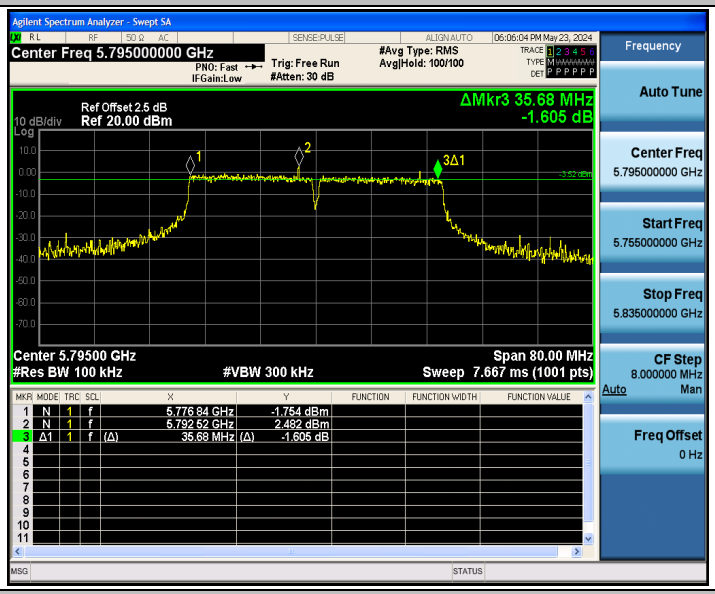

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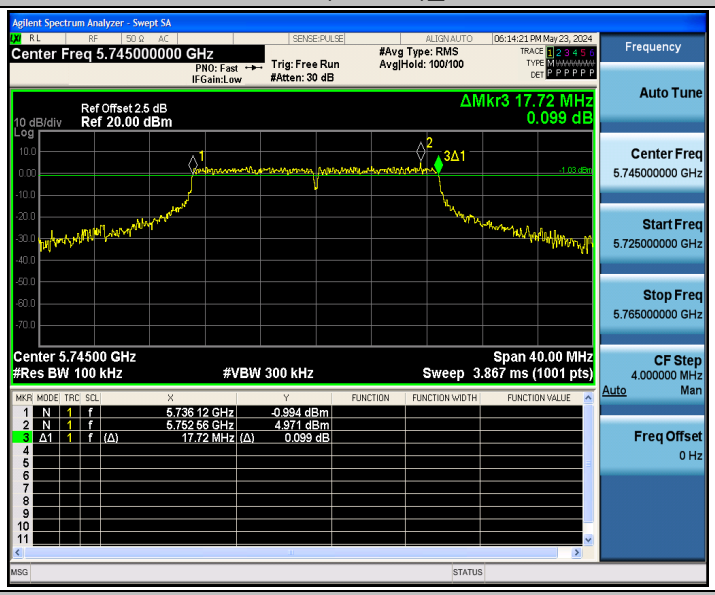

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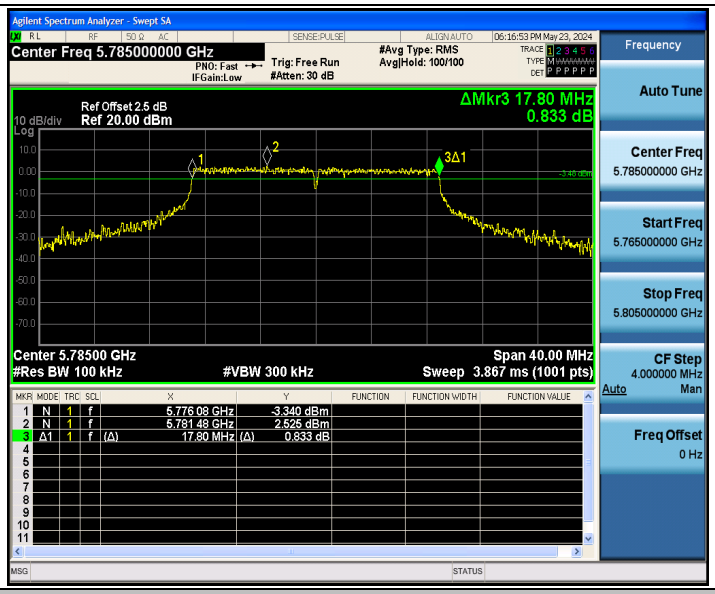

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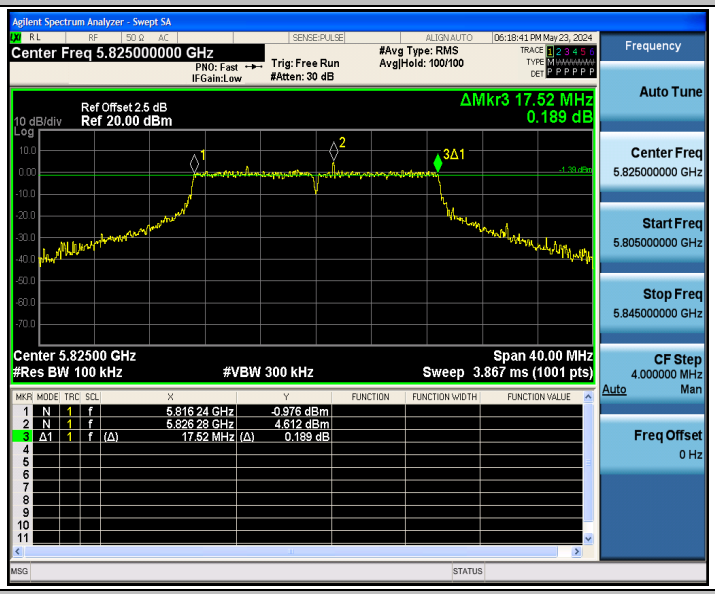

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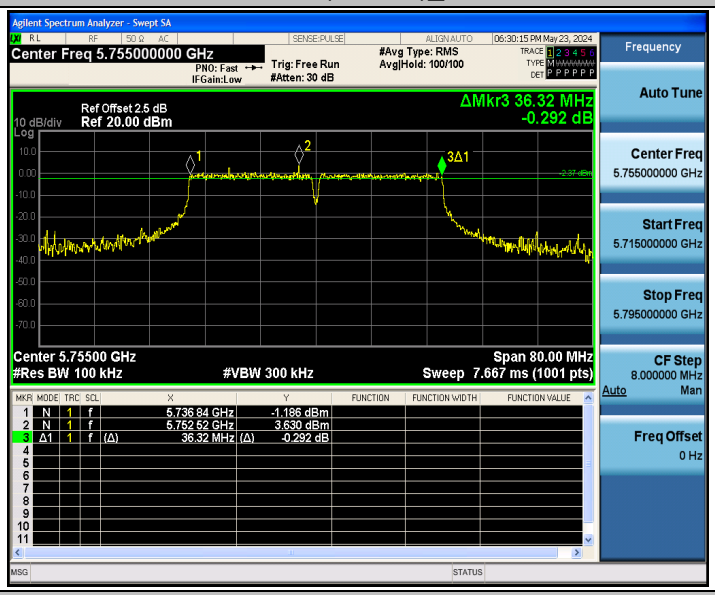

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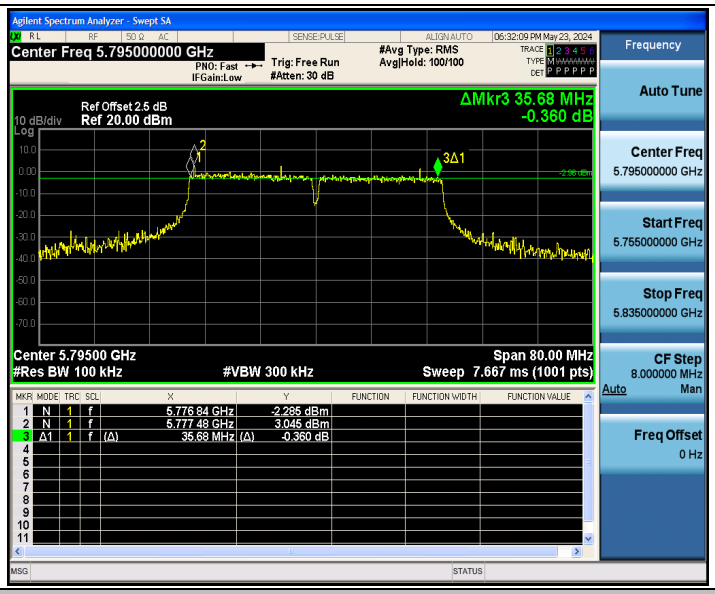

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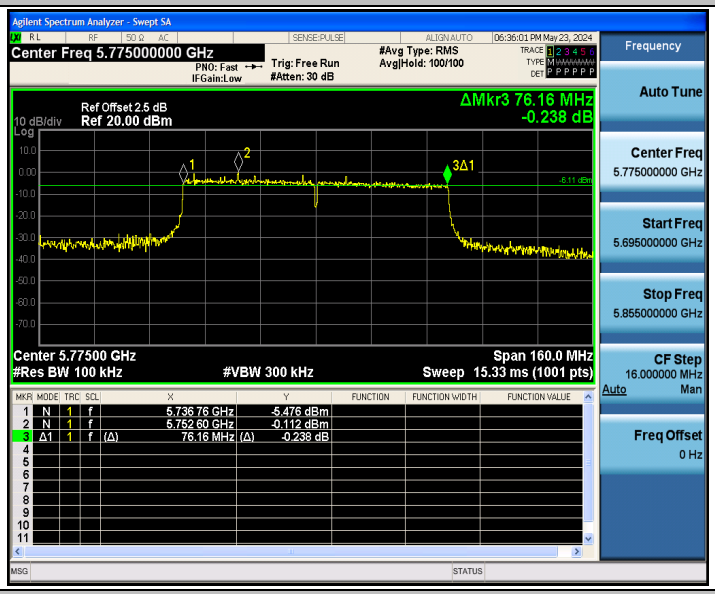

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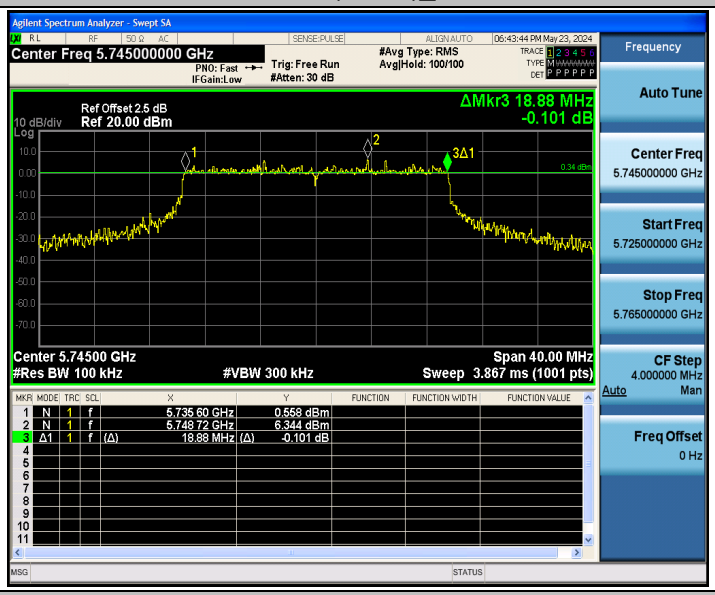

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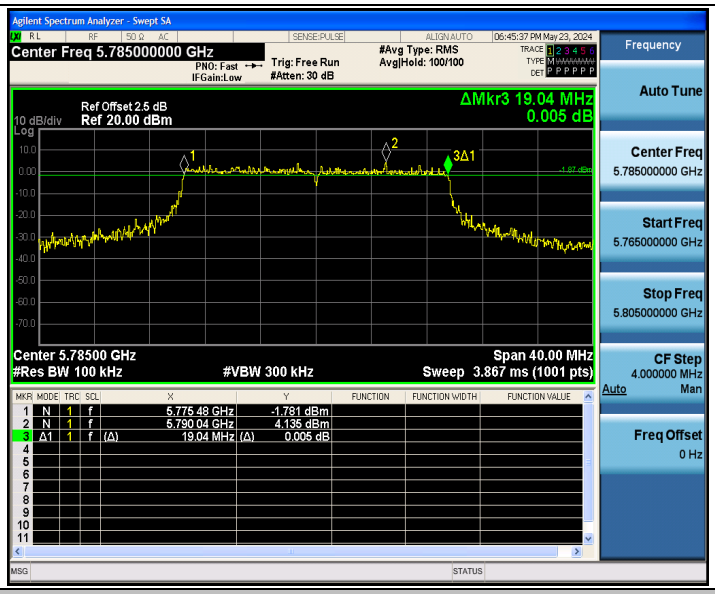

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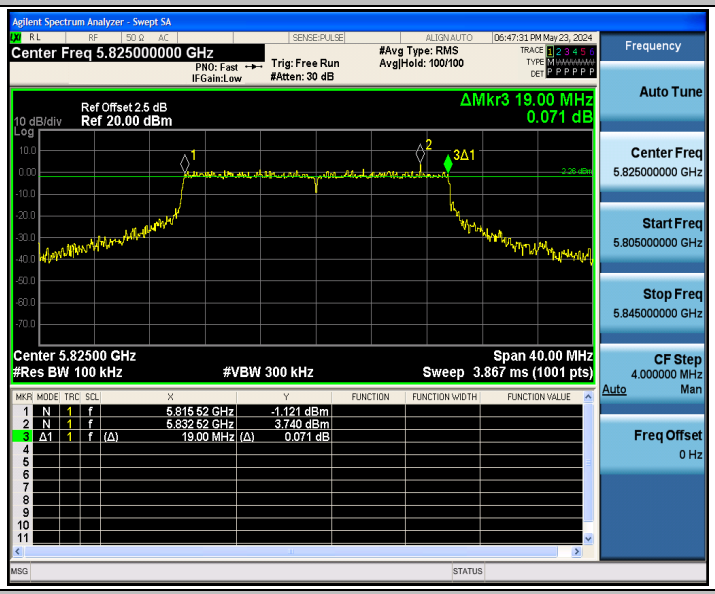

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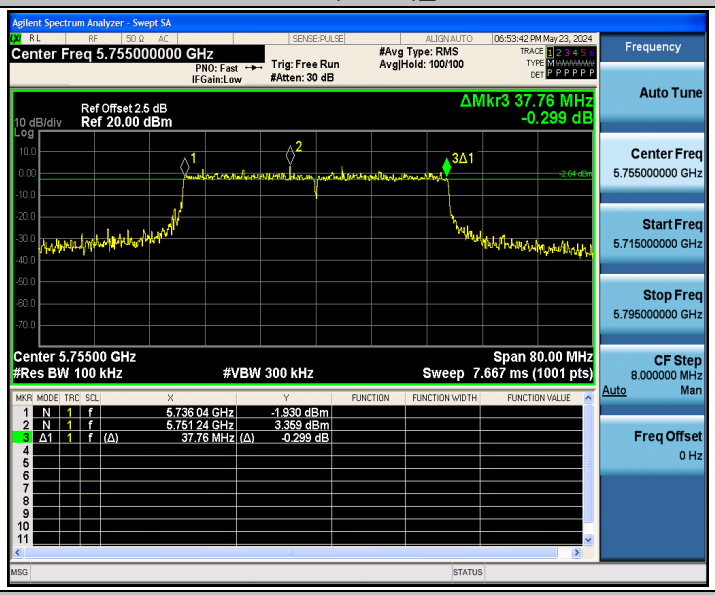

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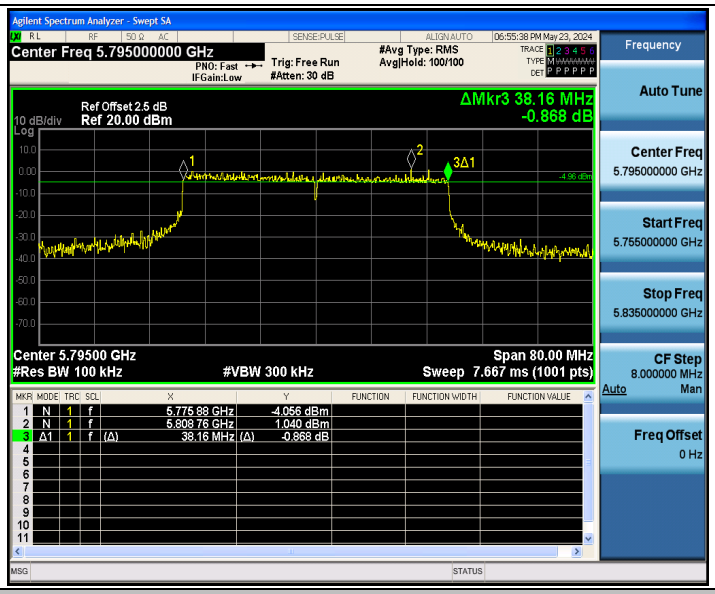

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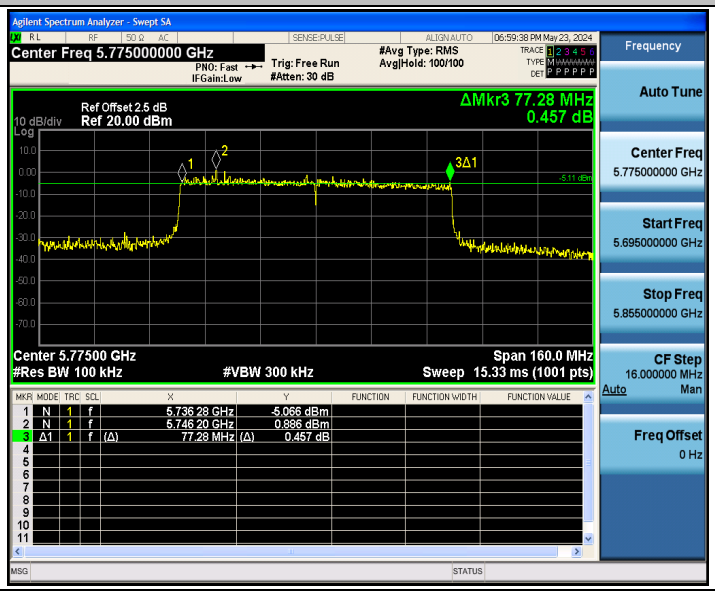


Appendix B: Maximum conducted output power

Test Result

Test Mode	Freq. [MHz]	Result[dBm]	Limit[dBm]	Verdict
802.11a	5180	17.96	<=24	PASS
	5200	18.05	<=24	PASS
	5240	19.03	<=24	PASS
	5745	18.04	<=30	PASS
	5785	16.21	<=30	PASS
	5825	15.96	<=30	PASS
802.11n(HT20)	5180	17.73	<=24	PASS
	5200	17.22	<=24	PASS
	5240	17.84	<=24	PASS
	5745	18.23	<=30	PASS
	5785	17.00	<=30	PASS
	5825	15.54	<=30	PASS
802.11n(HT40)	5190	17.69	<=24	PASS
	5230	18.11	<=24	PASS
	5755	17.63	<=30	PASS
	5795	16.70	<=30	PASS
802.11ac(VHT20)	5180	17.69	<=24	PASS
	5200	17.52	<=24	PASS
	5240	18.09	<=24	PASS
	5745	17.86	<=30	PASS
	5785	17.13	<=30	PASS
	5825	15.63	<=30	PASS
802.11ac(VHT40)	5190	17.65	<=24	PASS
	5230	17.90	<=24	PASS
	5755	17.86	<=30	PASS
	5795	16.70	<=30	PASS
802.11ac(VHT80)	5210	17.91	<=24	PASS
	5775	17.47	<=30	PASS
802.11ax(HE20)	5180	17.74	<=24	PASS
	5200	17.94	<=24	PASS
	5240	18.13	<=24	PASS
	5745	18.31	<=30	PASS
	5785	16.99	<=30	PASS
	5825	15.49	<=30	PASS
802.11ax(HE40)	5190	17.54	<=24	PASS
	5230	17.80	<=24	PASS
	5755	18.69	<=30	PASS
	5795	16.60	<=30	PASS
802.11ax(HE80)	5210	18.05	<=24	PASS
	5775	17.37	<=30	PASS

Note: 1. Test results increased RF cable loss by 2.5dB.

2. The Duty Cycle Factor is compensated in the result.

Appendix C: Maximum power spectral density

Test Result

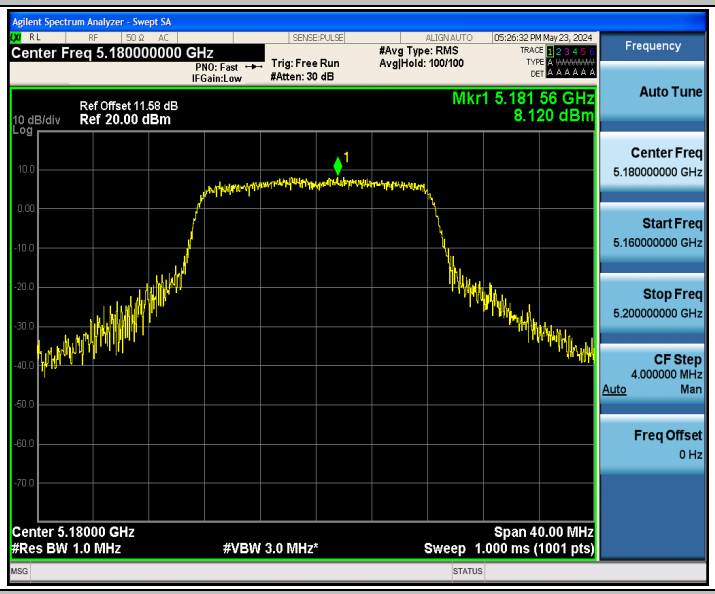
TestMode	Freq. [MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
802.11a	5180	8.12	≤11.00	PASS
	5200	7.22	≤11.00	PASS
	5240	9.03	≤11.00	PASS
	5745	6.58	≤30.00	PASS
	5785	5.07	≤30.00	PASS
	5825	2.80	≤30.00	PASS
802.11n(HT20)	5180	7.03	≤11.00	PASS
	5200	7.47	≤11.00	PASS
	5240	7.55	≤11.00	PASS
	5745	4.35	≤30.00	PASS
	5785	3.40	≤30.00	PASS
	5825	2.16	≤30.00	PASS
802.11n(HT40)	5190	4.21	≤11.00	PASS
	5230	4.04	≤11.00	PASS
	5755	0.61	≤30.00	PASS
	5795	0.54	≤30.00	PASS
802.11ac(VHT20)	5180	7.45	≤11.00	PASS
	5200	7.59	≤11.00	PASS
	5240	7.21	≤11.00	PASS
	5745	4.64	≤30.00	PASS
	5785	2.91	≤30.00	PASS
	5825	1.96	≤30.00	PASS
802.11ac(VHT40)	5190	3.40	≤11.00	PASS
	5230	4.10	≤11.00	PASS
	5755	0.90	≤30.00	PASS
	5795	0.20	≤30.00	PASS
802.11ac(VHT80)	5210	0.55	≤11.00	PASS
	5775	-2.30	≤30.00	PASS
802.11ax(HE20)	5180	6.80	≤11.00	PASS
	5200	6.51	≤11.00	PASS
	5240	8.23	≤11.00	PASS
	5745	5.15	≤30.00	PASS
	5785	4.04	≤30.00	PASS
	5825	2.92	≤30.00	PASS
802.11ax(HE40)	5190	4.45	≤11.00	PASS
	5230	4.17	≤11.00	PASS
	5755	1.63	≤30.00	PASS
	5795	0.05	≤30.00	PASS
802.11ax(HE80)	5210	0.60	≤11.00	PASS
	5775	-1.67	≤30.00	PASS

Note：1. The Result and Limit Unit is dBm/500 kHz in the band 5.725 - 5.85 GHz.

2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

802.11a_5180



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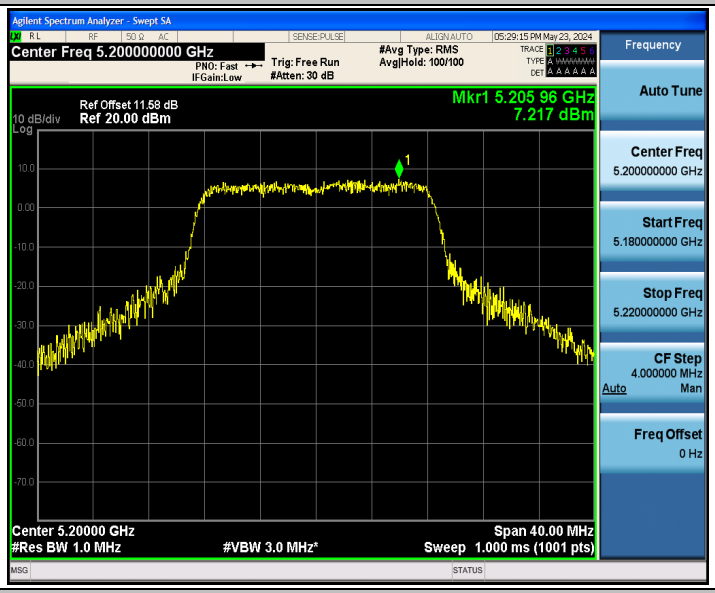

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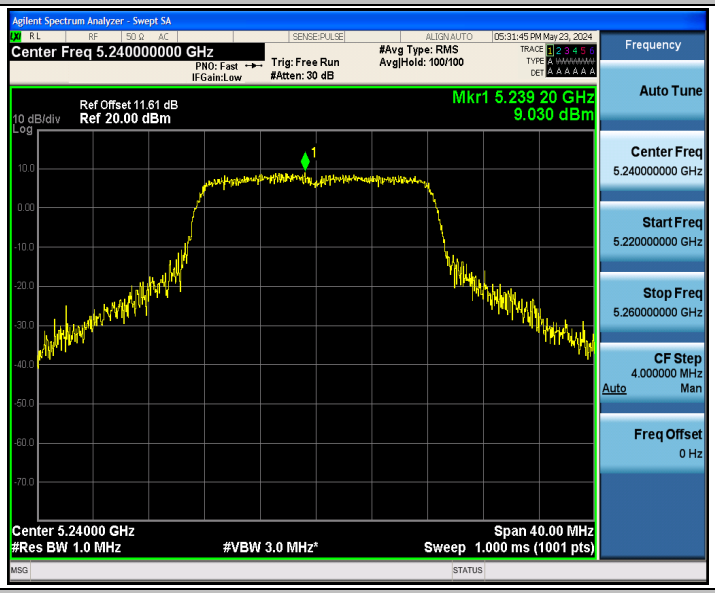

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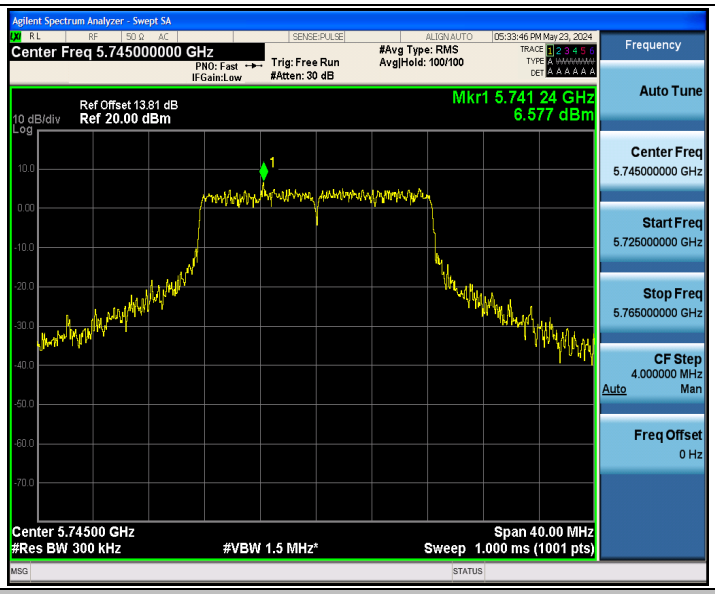

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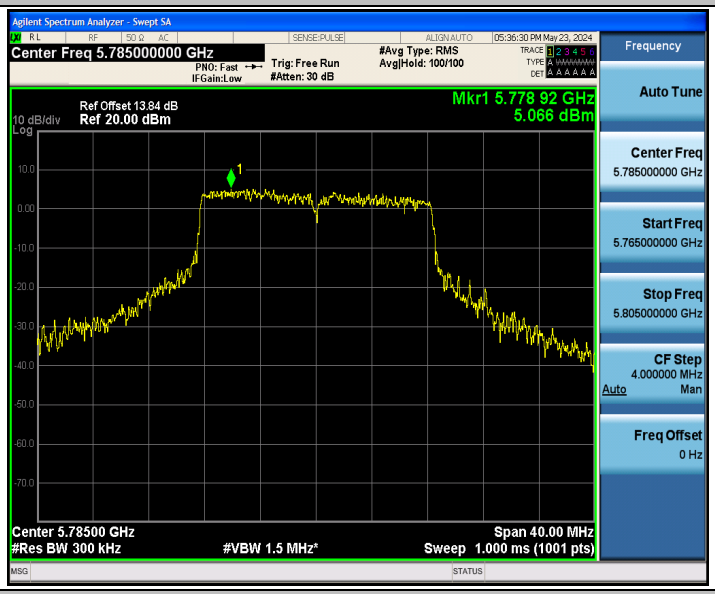

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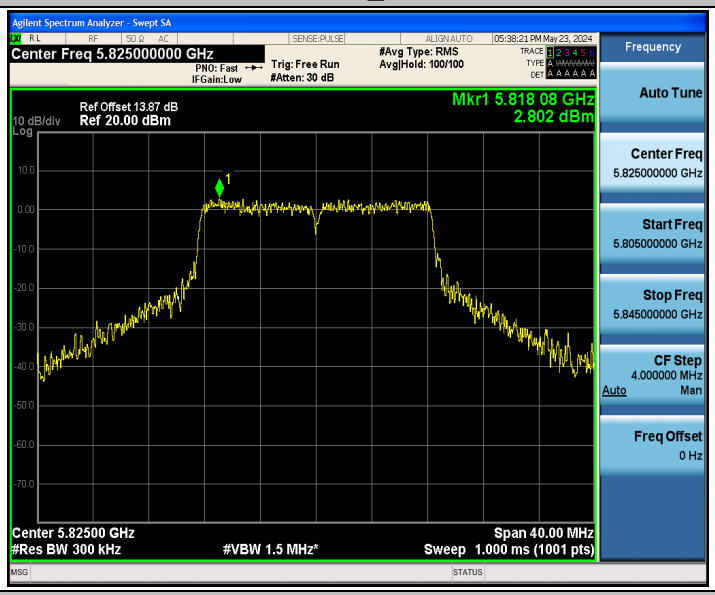

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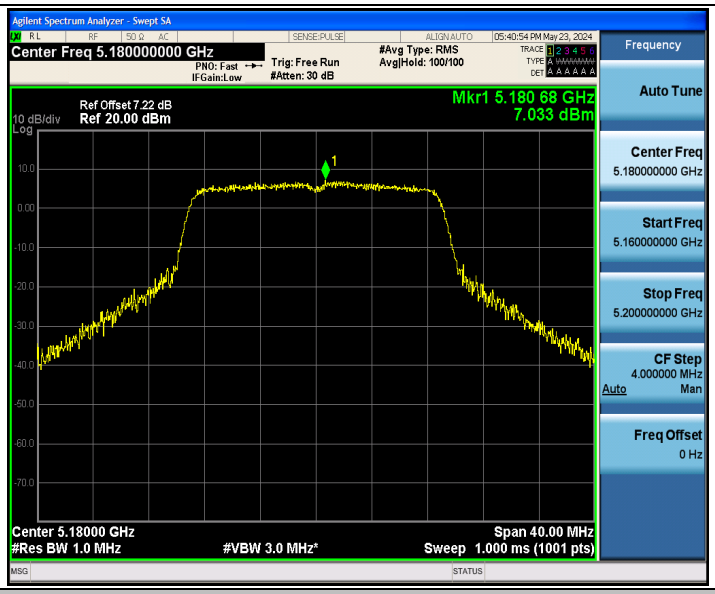

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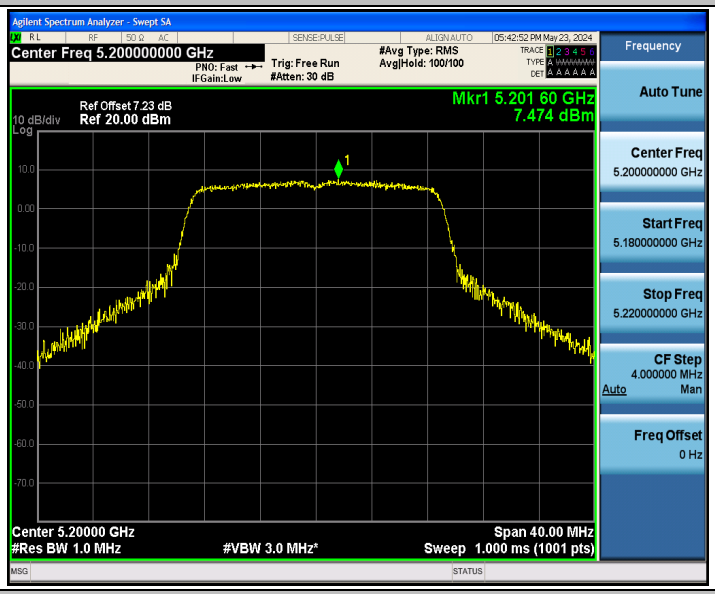

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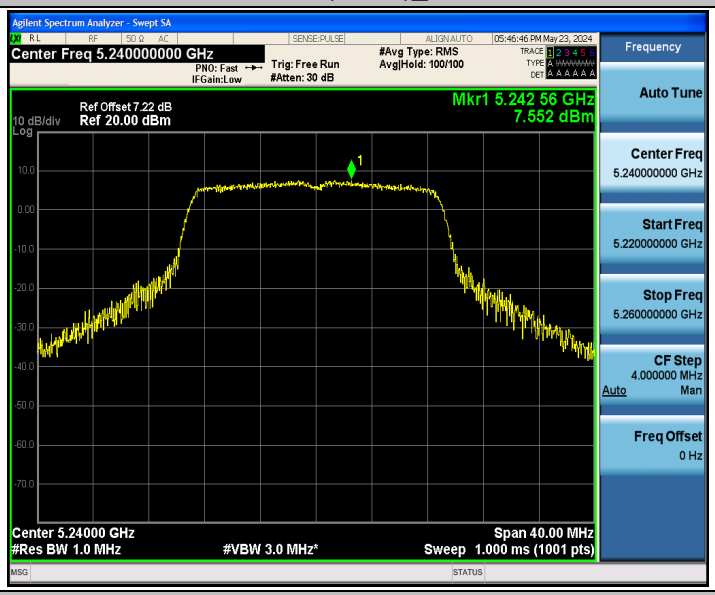

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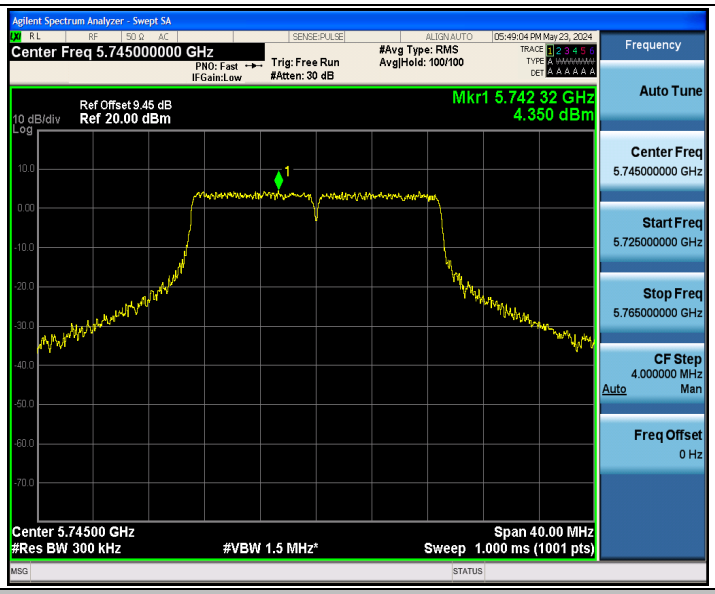

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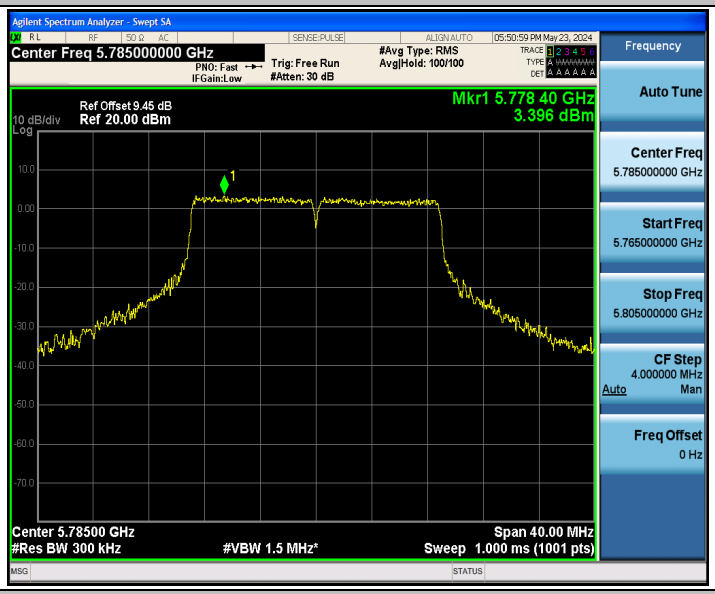

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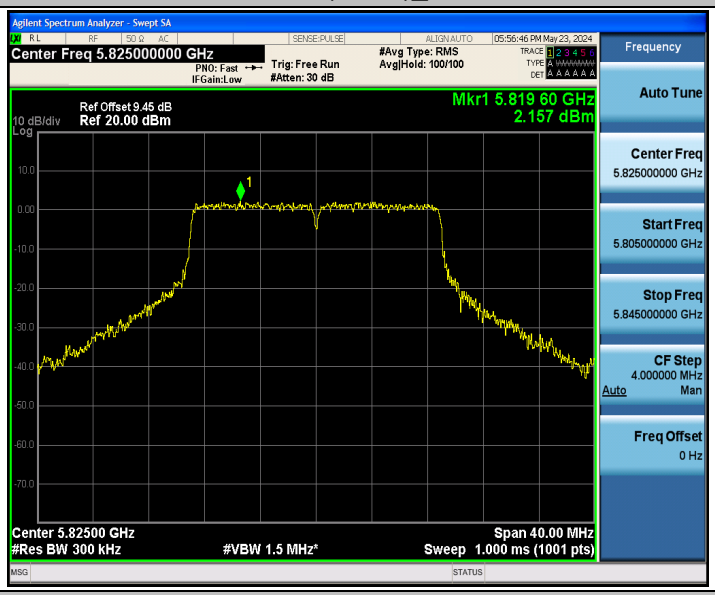

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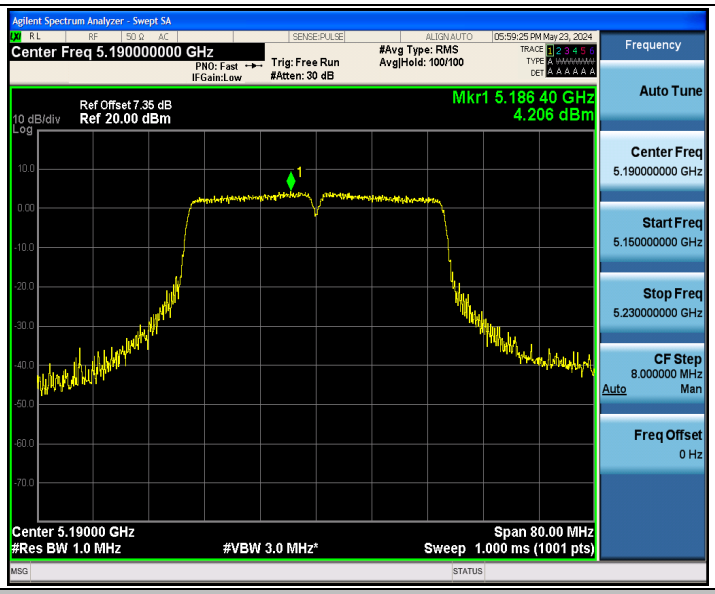

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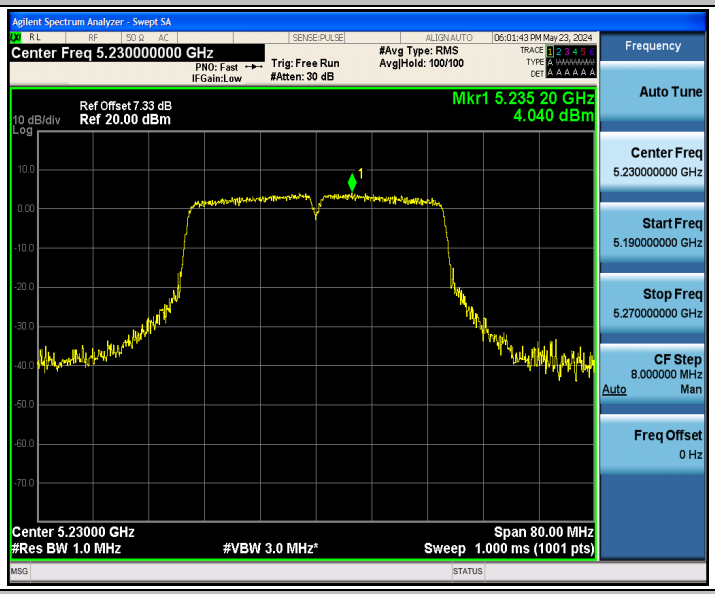

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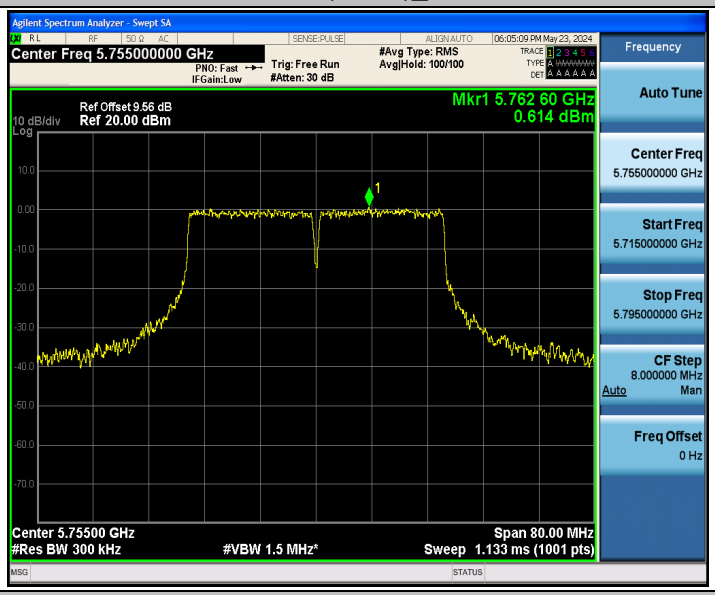

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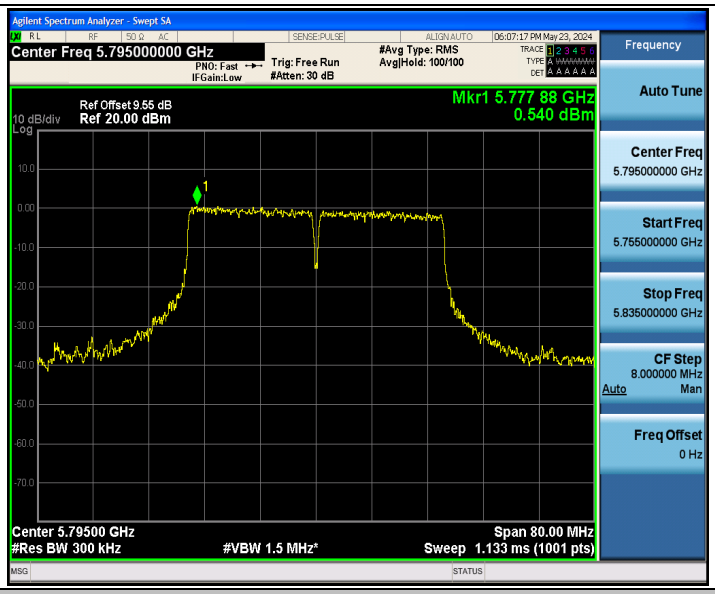

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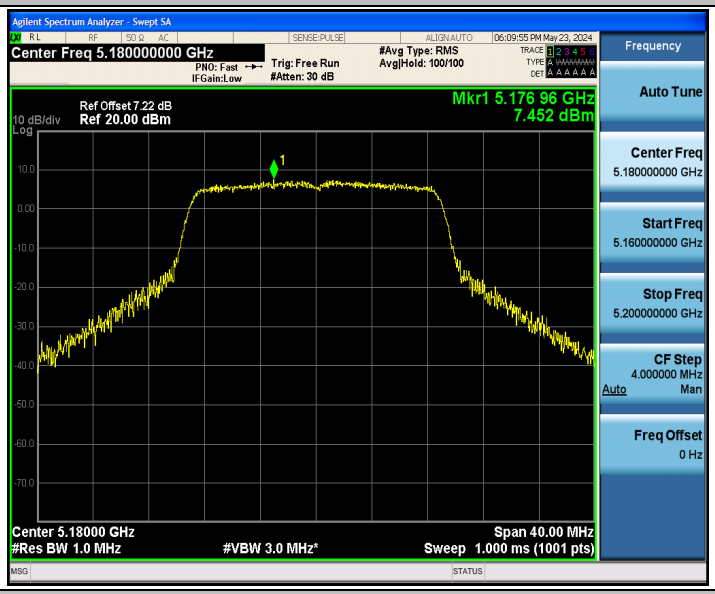

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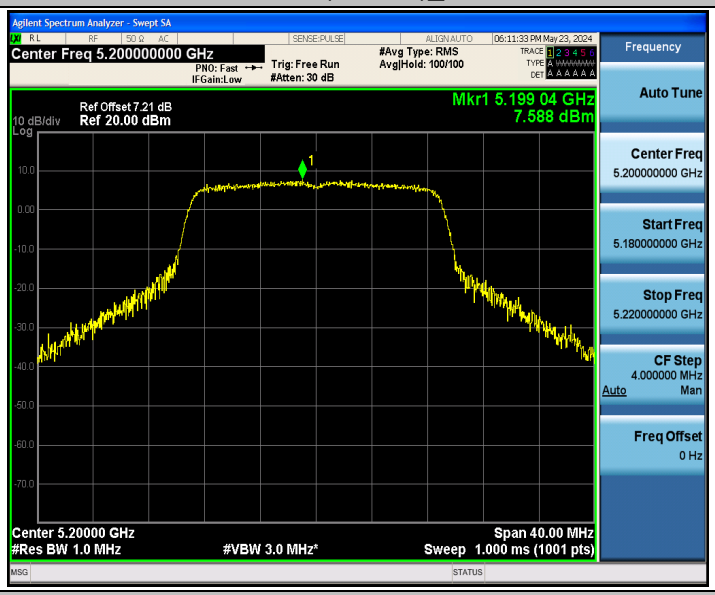

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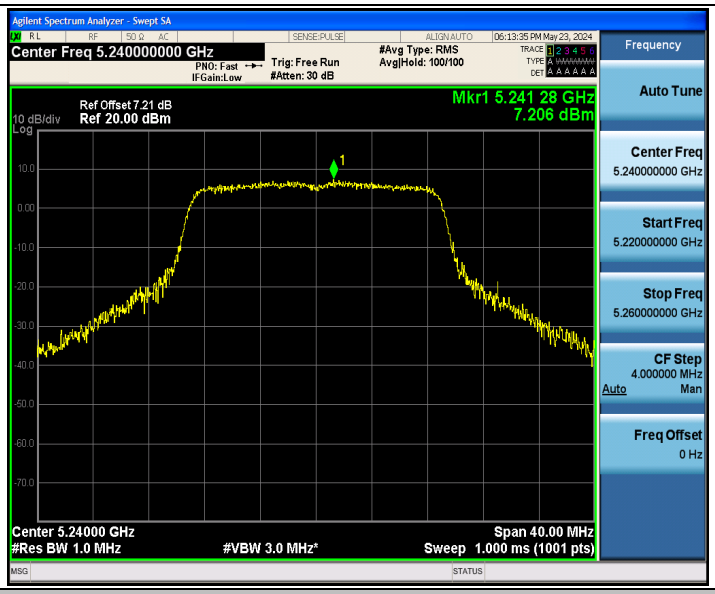

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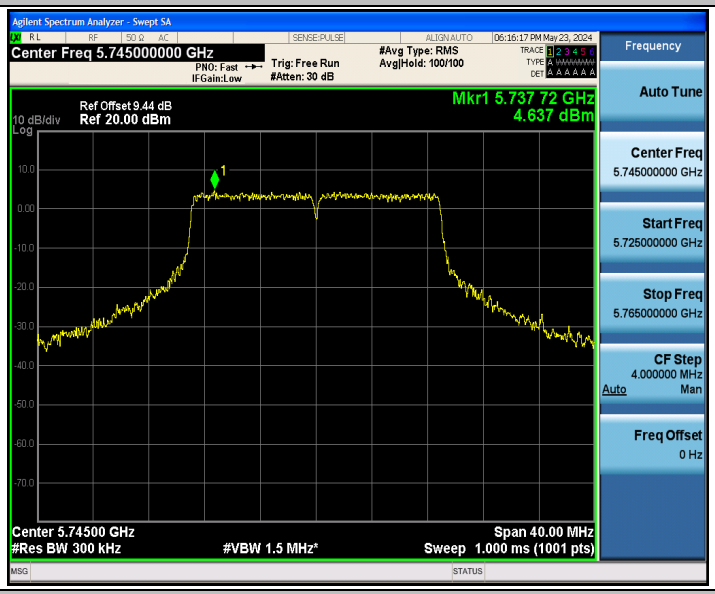

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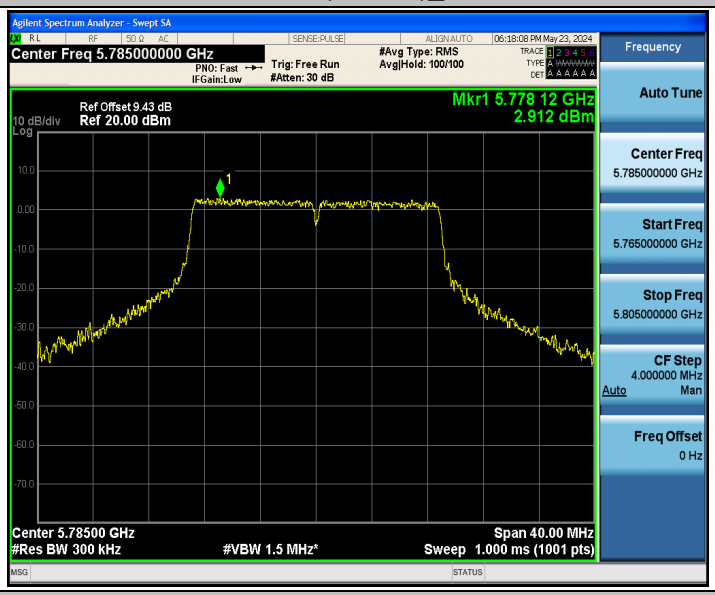

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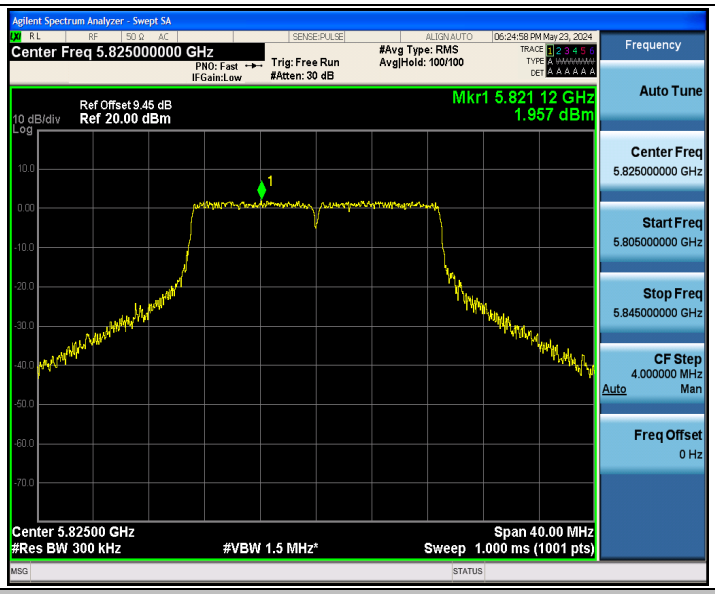

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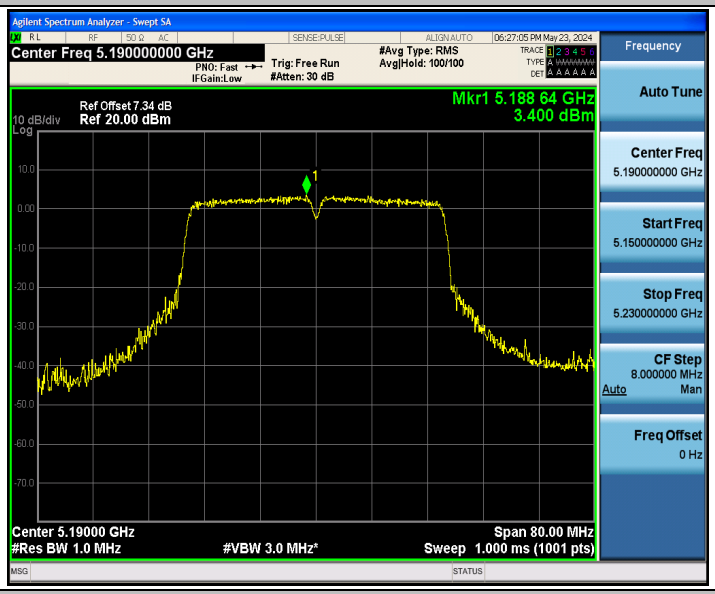

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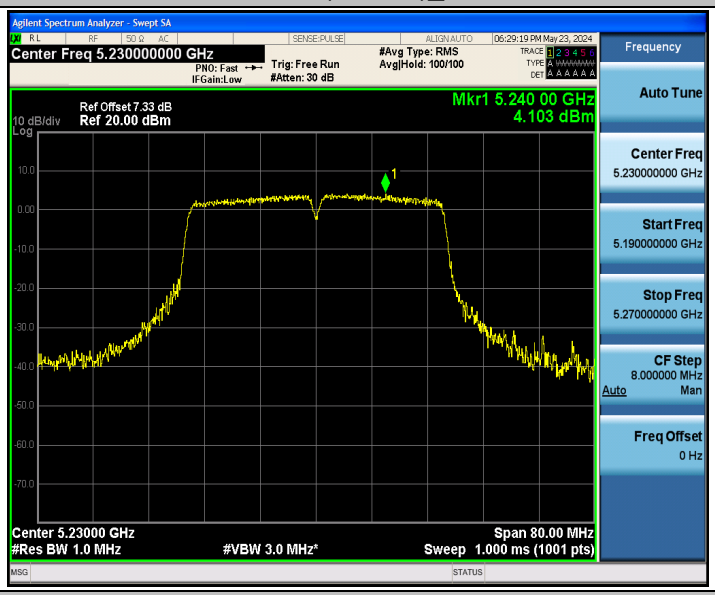

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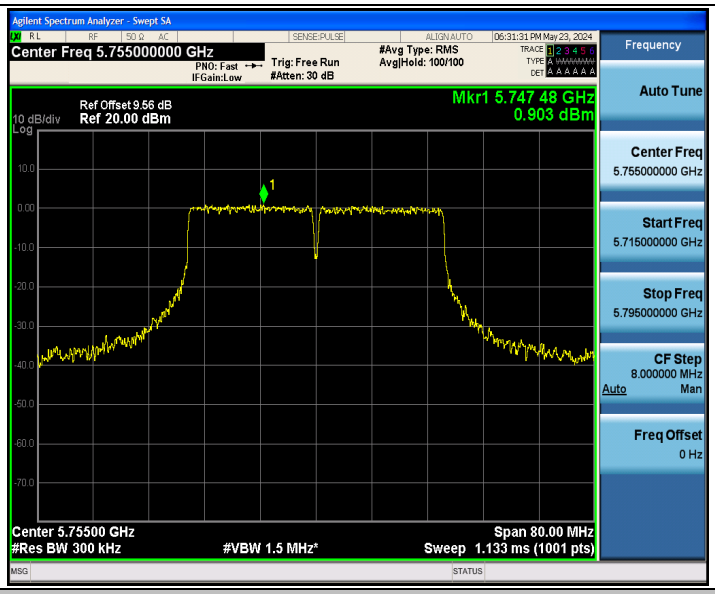

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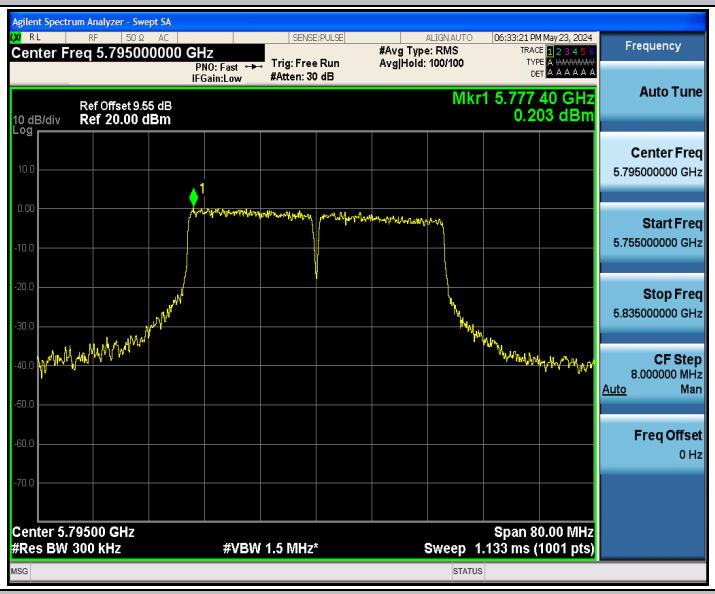

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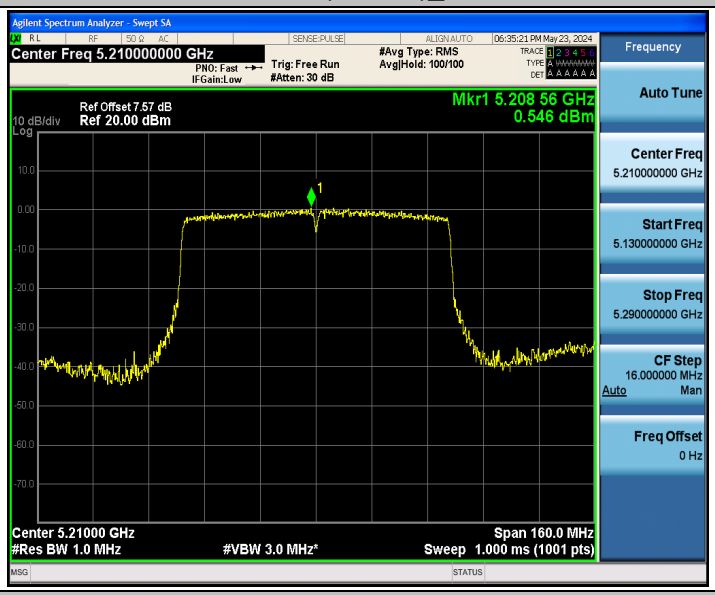

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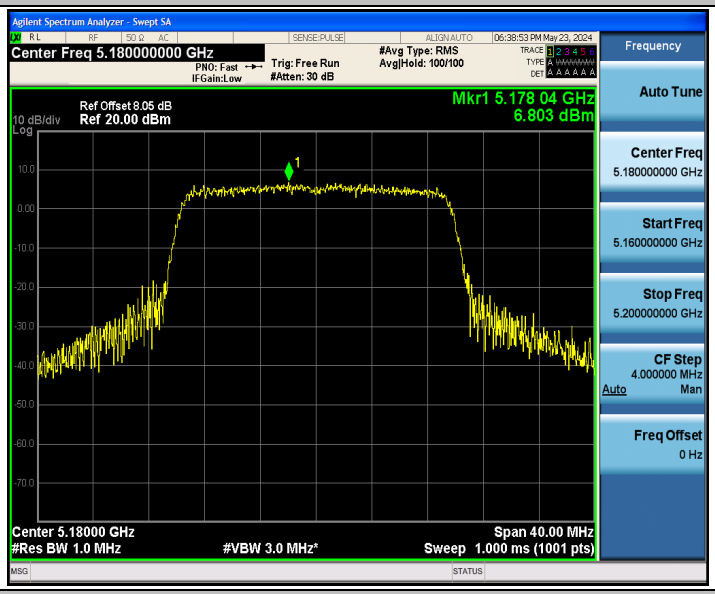
802.11ax(HE20)_5180



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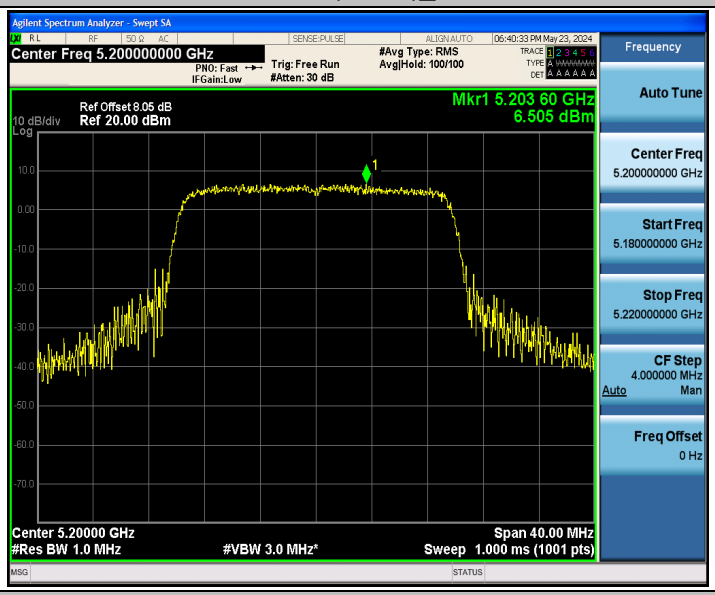
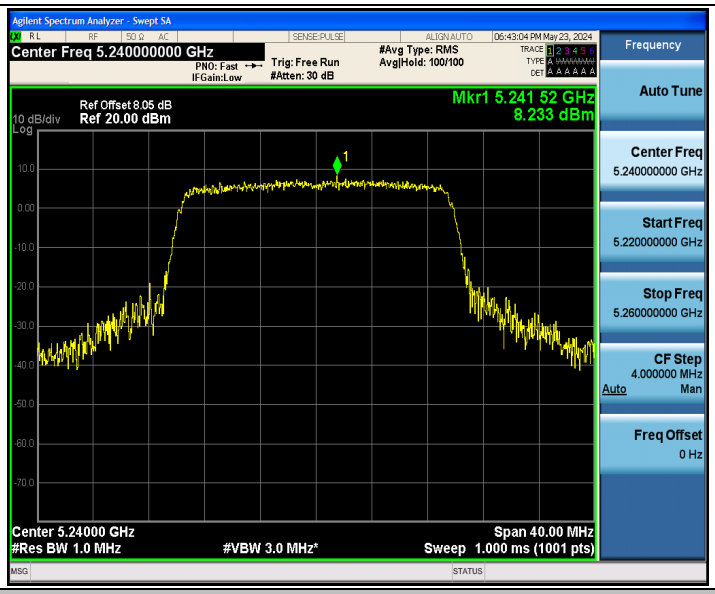
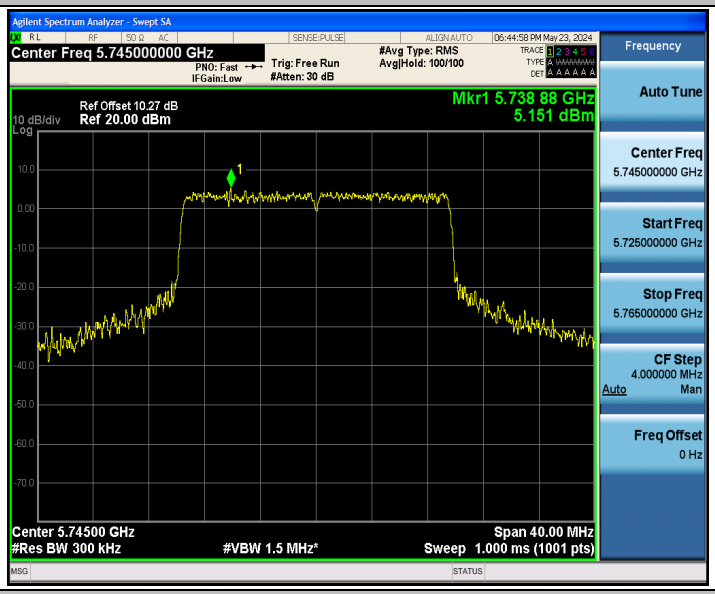


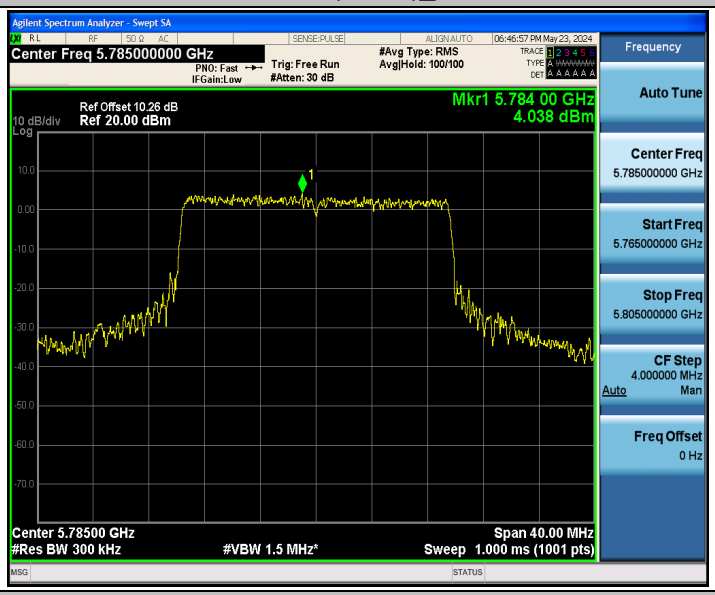
802.11ax(HE20)_5240



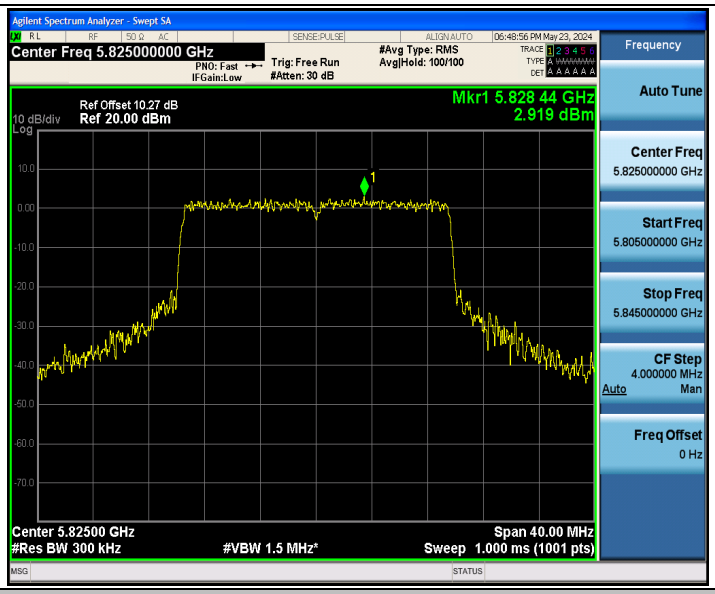
802.11ax(HE20)_5745



802.11ax(HE20)_5785

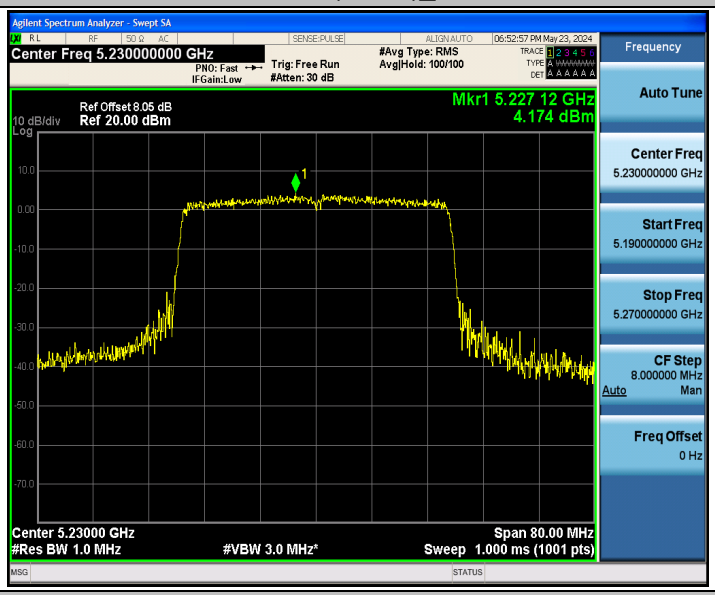


802.11ax(HE20)_5825



802.11ax(HE40)_5190

802.11ax(HE40)_5230



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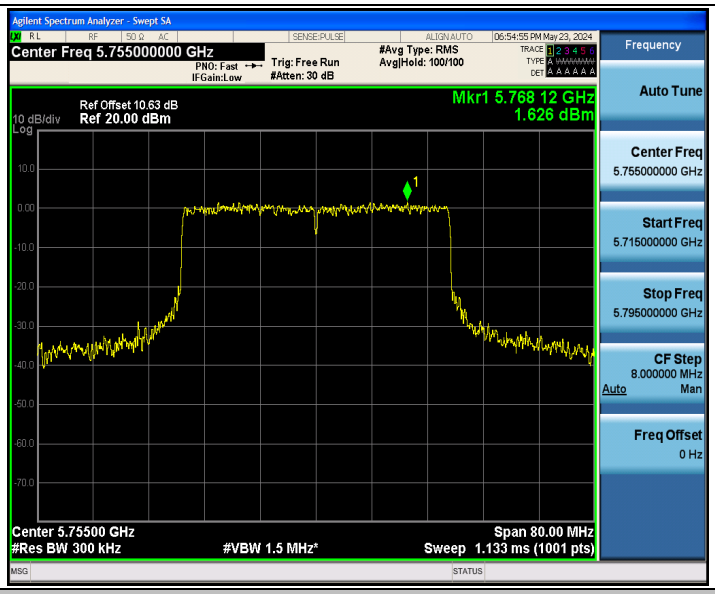
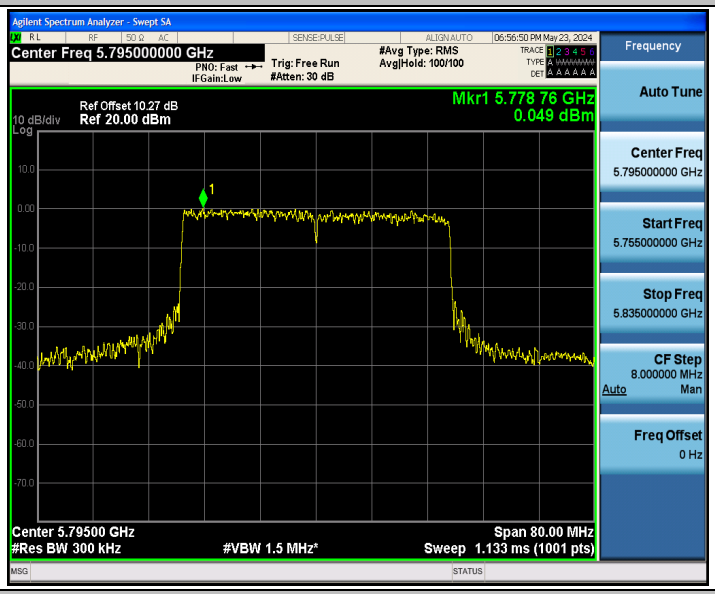
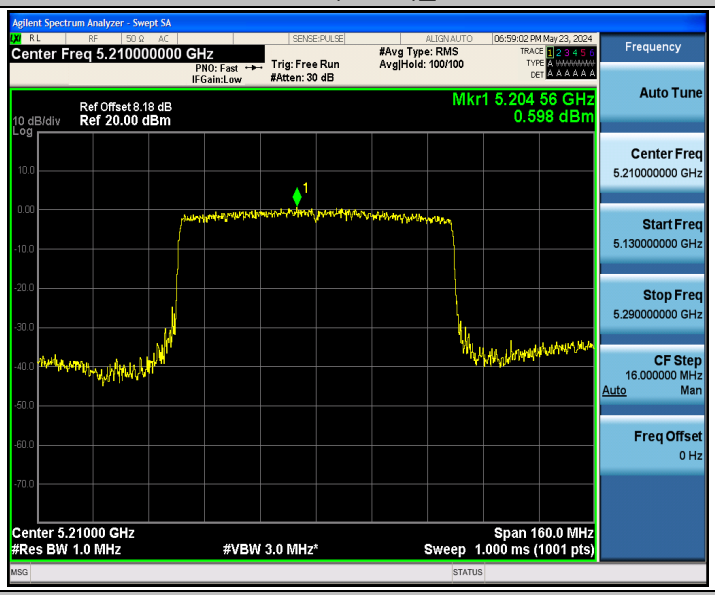


802.11ax(HE40)_5795



802.11ax(HE80)_5210



802.11ax(HE80)_5775

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
07:00:52 PM May 23, 2024
Ref Offset 10.42 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.765 08 GHz
-1.670 dBm
Center 5.77500 GHz
#Res BW 300 kHz
#VBW 1.5 MHz*
Span 160.0 MHz
Sweep 2.200 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.775000000 GHz
Start Freq
5.695000000 GHz
Stop Freq
5.855000000 GHz
CF Step
16.000000 MHz
Auto
Man
Freq Offset
0 Hz

Appendix D: Frequency Stability

Test Result

Voltage							
Test Mode	Freq. [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20MHz	5180	NV	NT	2000.00	0.386100	20	PASS
		LV	NT	2000.00	0.386100	20	PASS
		HV	NT	2000.00	0.386100	20	PASS
	5200	NV	NT	2500.00	0.480769	20	PASS
		LV	NT	3000.00	0.576923	20	PASS
		HV	NT	2500.00	0.480769	20	PASS
	5240	NV	NT	2500.00	0.477099	20	PASS
		LV	NT	2500.00	0.477099	20	PASS
		HV	NT	2500.00	0.477099	20	PASS
	5745	NV	NT	4000.00	0.696258	20	PASS
		LV	NT	3500.00	0.609225	20	PASS
		HV	NT	3500.00	0.609225	20	PASS
	5785	NV	NT	4000.00	0.691443	20	PASS
		LV	NT	3500.00	0.605013	20	PASS
		HV	NT	3500.00	0.605013	20	PASS
	5825	NV	NT	4500.00	0.772532	20	PASS
		LV	NT	4000.00	0.686695	20	PASS
		HV	NT	3500.00	0.600858	20	PASS
40MHz	5190	NV	NT	2000.00	0.385356	20	PASS
		LV	NT	2500.00	0.481696	20	PASS
		HV	NT	2000.00	0.385356	20	PASS
	5230	NV	NT	2500.00	0.478011	20	PASS
		LV	NT	2000.00	0.382409	20	PASS
		HV	NT	2000.00	0.382409	20	PASS
	5755	NV	NT	3000.00	0.521286	20	PASS
		LV	NT	2500.00	0.434405	20	PASS
		HV	NT	2000.00	0.347524	20	PASS
	5795	NV	NT	3000.00	0.517688	20	PASS
		LV	NT	3000.00	0.517688	20	PASS
		HV	NT	2500.00	0.431406	20	PASS
80MHz	5210	NV	NT	2000.00	0.383877	20	PASS
		LV	NT	1500.00	0.287908	20	PASS
		HV	NT	1500.00	0.287908	20	PASS
	5775	NV	NT	2000.00	0.346320	20	PASS
		LV	NT	2000.00	0.346320	20	PASS
		HV	NT	1500.00	0.259740	20	PASS

Temperature							
Test Mode	Freq. [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20MHz	5180	NV	0	2000.00	0.386100	20	PASS
		NV	10	2000.00	0.386100	20	PASS
		NV	20	2000.00	0.386100	20	PASS
		NV	30	2000.00	0.386100	20	PASS
		NV	40	2000.00	0.386100	20	PASS
		NV	45	2000.00	0.386100	20	PASS
	5200	NV	0	2500.00	0.480769	20	PASS
		NV	10	2500.00	0.480769	20	PASS
		NV	20	2500.00	0.480769	20	PASS
		NV	30	2000.00	0.384615	20	PASS
		NV	40	2500.00	0.480769	20	PASS
		NV	45	2000.00	0.384615	20	PASS
	5240	NV	0	2500.00	0.477099	20	PASS
		NV	10	2500.00	0.477099	20	PASS
		NV	20	2500.00	0.477099	20	PASS
		NV	30	2500.00	0.477099	20	PASS
		NV	40	2500.00	0.477099	20	PASS
		NV	45	2500.00	0.477099	20	PASS
	5745	NV	0	3000.00	0.522193	20	PASS
		NV	10	3500.00	0.609225	20	PASS
		NV	20	3000.00	0.522193	20	PASS
		NV	30	3000.00	0.522193	20	PASS
		NV	40	3000.00	0.522193	20	PASS
		NV	45	3000.00	0.522193	20	PASS
	5785	NV	0	3500.00	0.605013	20	PASS
		NV	10	3000.00	0.518583	20	PASS
		NV	20	3000.00	0.518583	20	PASS
		NV	30	3000.00	0.518583	20	PASS
		NV	40	3000.00	0.518583	20	PASS
		NV	45	3000.00	0.518583	20	PASS
	5825	NV	0	3000.00	0.515021	20	PASS
		NV	10	3500.00	0.600858	20	PASS
		NV	20	3000.00	0.515021	20	PASS
		NV	30	3000.00	0.515021	20	PASS
		NV	40	3000.00	0.515021	20	PASS
		NV	45	3000.00	0.515021	20	PASS
40MHz	5190	NV	0	2000.00	0.385356	20	PASS
		NV	10	2000.00	0.385356	20	PASS
		NV	20	2000.00	0.385356	20	PASS
		NV	30	2000.00	0.385356	20	PASS
		NV	40	2000.00	0.385356	20	PASS
		NV	45	2000.00	0.385356	20	PASS
	5230	NV	0	2000.00	0.382409	20	PASS

		NV	10	1500.00	0.286807	20	PASS
		NV	20	1500.00	0.286807	20	PASS
		NV	30	1500.00	0.286807	20	PASS
		NV	40	1500.00	0.286807	20	PASS
		NV	45	1000.00	0.191205	20	PASS
	5755	NV	0	1500.00	0.260643	20	PASS
		NV	10	1000.00	0.173762	20	PASS
		NV	20	1000.00	0.173762	20	PASS
		NV	30	1000.00	0.173762	20	PASS
		NV	40	1000.00	0.173762	20	PASS
		NV	45	1000.00	0.173762	20	PASS
	5795	NV	0	2000.00	0.345125	20	PASS
		NV	10	2000.00	0.345125	20	PASS
		NV	20	2000.00	0.345125	20	PASS
		NV	30	1500.00	0.258844	20	PASS
		NV	40	2000.00	0.345125	20	PASS
		NV	45	2000.00	0.345125	20	PASS
80MHz	5210	NV	0	500.00	0.095969	20	PASS
		NV	10	1000.00	0.191939	20	PASS
		NV	20	500.00	0.095969	20	PASS
		NV	30	500.00	0.095969	20	PASS
		NV	40	500.00	0.095969	20	PASS
		NV	45	500.00	0.095969	20	PASS
	5775	NV	0	1000.00	0.173160	20	PASS
		NV	10	1000.00	0.173160	20	PASS
		NV	20	500.00	0.086580	20	PASS
		NV	30	1000.00	0.173160	20	PASS
		NV	40	500.00	0.086580	20	PASS
		NV	45	500.00	0.086580	20	PASS

Appendix E: Duty Cycle

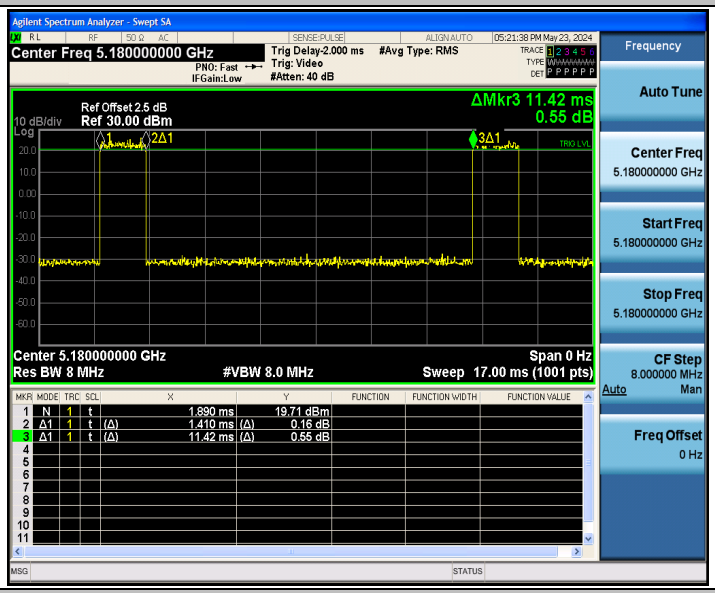
Test Result

Test Mode	Freq. [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle[%]	Duty Cycle Factor	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
802.11a	5180	1.41	11.42	12.35	9.08	0.709	1
	5200	1.41	11.42	12.35	9.08	0.709	1
	5240	1.40	11.41	12.27	9.11	0.714	1
	5745	1.41	11.43	12.34	9.09	0.709	1
	5785	1.40	11.43	12.25	9.12	0.714	1
	5825	1.39	11.42	12.17	9.15	0.719	1
802.11n(HT20)	5180	5.09	15.10	33.71	4.72	0.196	1
	5200	5.08	15.09	33.66	4.73	0.197	1
	5240	5.09	15.10	33.71	4.72	0.196	1
	5745	5.08	15.09	33.66	4.73	0.197	1
	5785	5.08	15.10	33.64	4.73	0.197	1
	5825	5.08	15.11	33.62	4.73	0.197	1
802.11n(HT40)	5190	4.88	14.91	32.73	4.85	0.205	1
	5230	4.91	14.92	32.91	4.83	0.204	1
	5755	4.89	14.91	32.80	4.84	0.204	1
	5795	4.90	14.91	32.86	4.83	0.204	1
802.11ac(VHT20)	5180	5.10	15.12	33.73	4.72	0.196	1
	5200	5.11	15.12	33.80	4.71	0.196	1
	5240	5.11	15.12	33.80	4.71	0.196	1
	5745	5.10	15.12	33.73	4.72	0.196	1
	5785	5.11	15.12	33.80	4.71	0.196	1
	5825	5.08	15.11	33.62	4.73	0.197	1
802.11ac(VHT40)	5190	4.90	14.93	32.82	4.84	0.204	1
	5230	4.90	14.91	32.86	4.83	0.204	1
	5755	4.90	14.93	32.82	4.84	0.204	1
	5795	4.90	14.91	32.86	4.83	0.204	1
802.11ac(VHT80)	5210	4.52	14.54	31.09	5.07	0.221	1
	5775	4.52	14.53	31.11	5.07	0.221	1
802.11ax(HE20)	5180	3.87	13.89	27.86	5.55	0.258	1
	5200	3.87	13.89	27.86	5.55	0.258	1
	5240	3.88	13.91	27.89	5.55	0.258	1
	5745	3.87	13.89	27.86	5.55	0.258	1
	5785	3.88	13.89	27.93	5.54	0.258	1
	5825	3.88	13.91	27.89	5.55	0.258	1
802.11ax(HE40)	5190	3.88	13.89	27.93	5.54	0.258	1
	5230	3.88	13.91	27.89	5.55	0.258	1
	5755	3.87	15.09	25.65	5.91	0.258	1
	5795	3.87	13.88	27.88	5.55	0.258	1
802.11ax(HE80)	5210	3.71	13.72	27.04	5.68	0.270	1

	5775	3.69	13.70	26.93	5.70	0.271	1

Test Graphs

802.11a_5180



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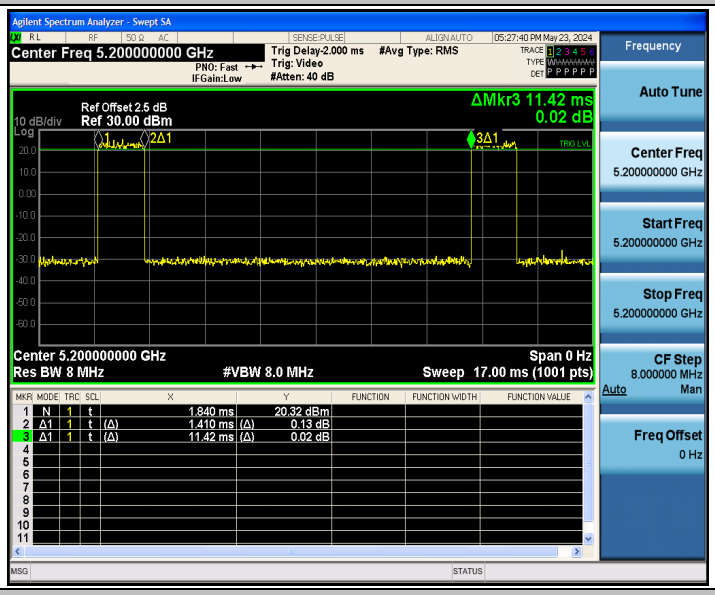

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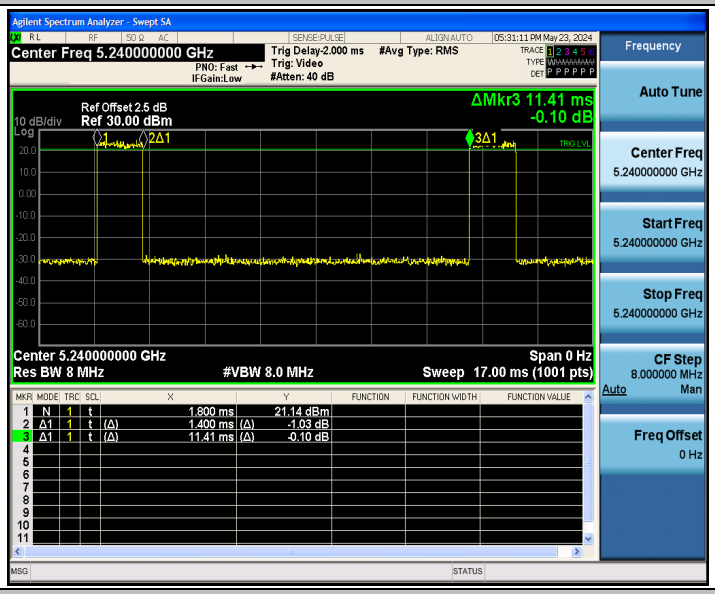
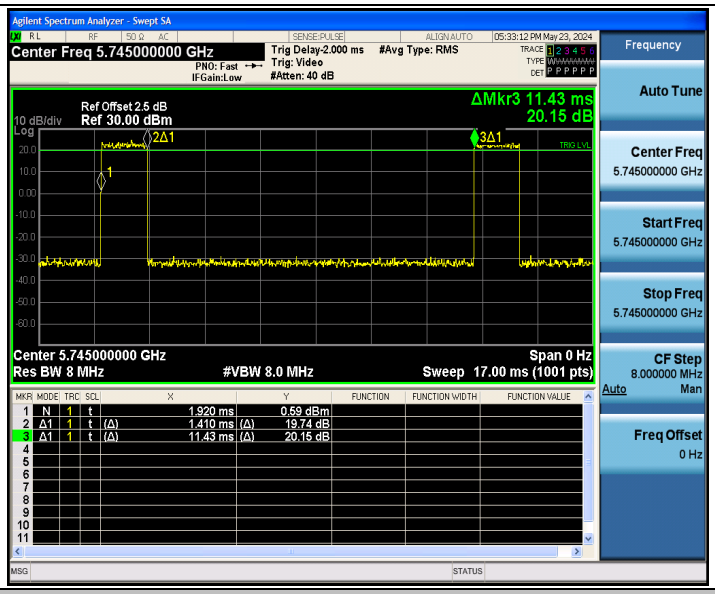
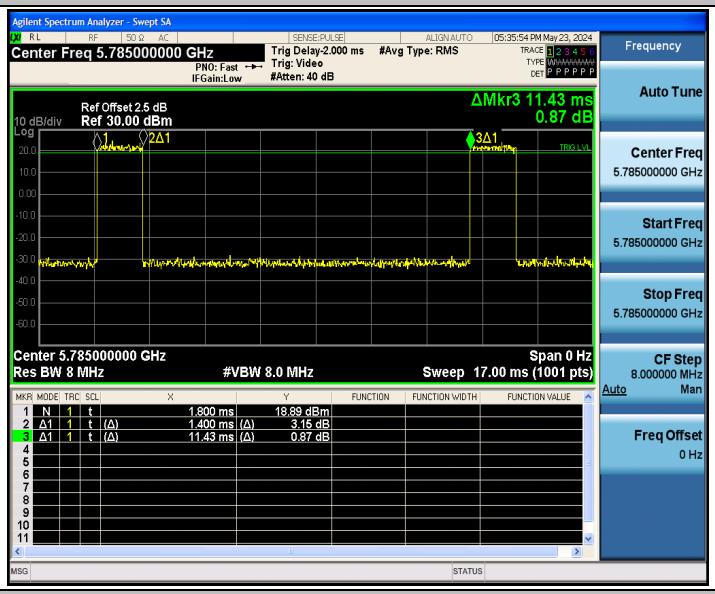


802.11a_5745



802.11a_5785



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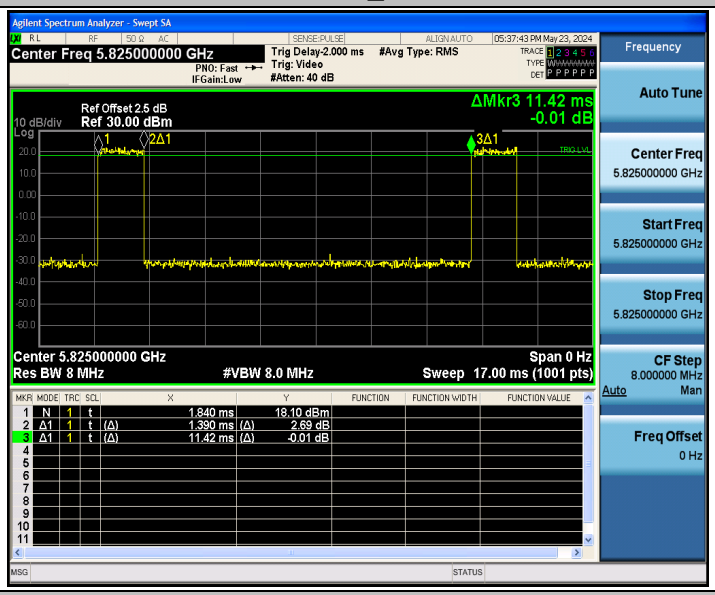
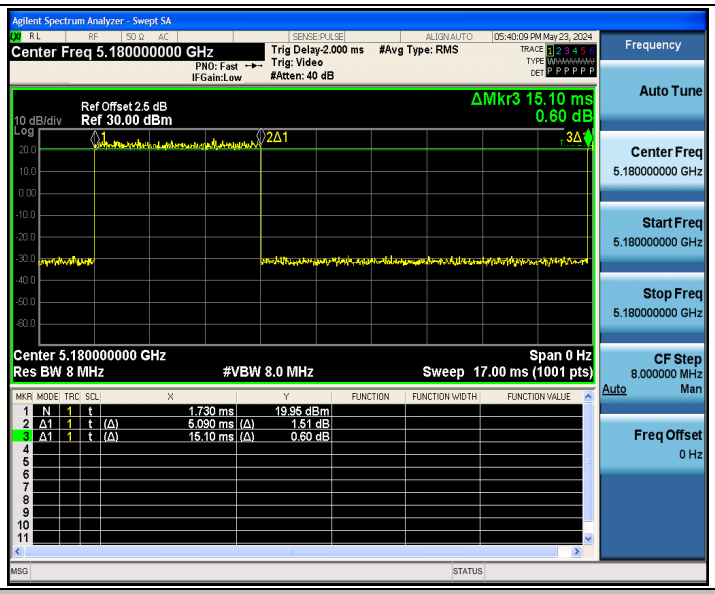


802.11n(HT20)_5180



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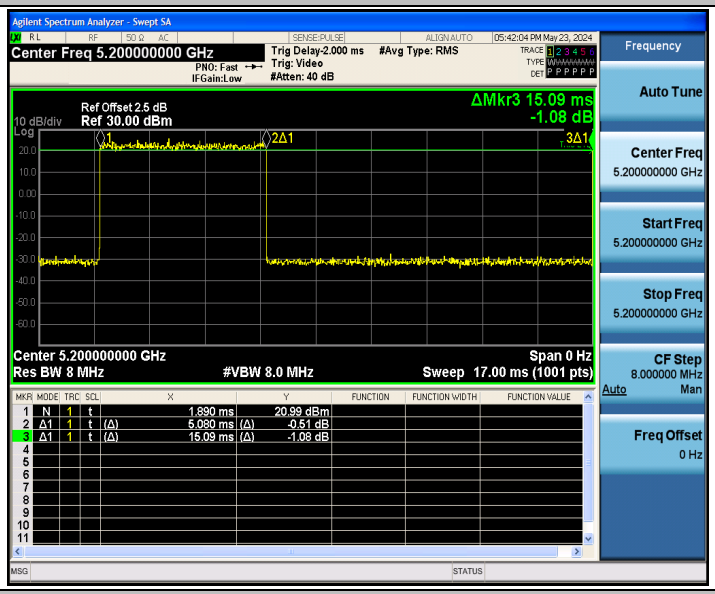

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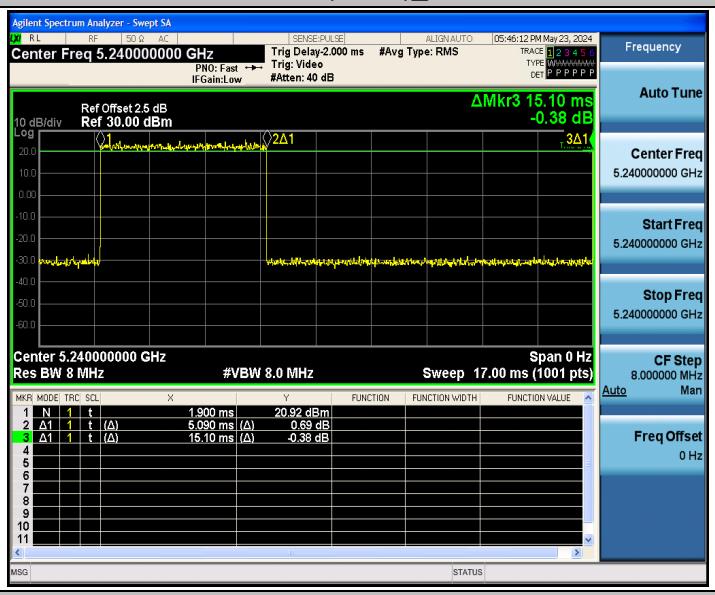
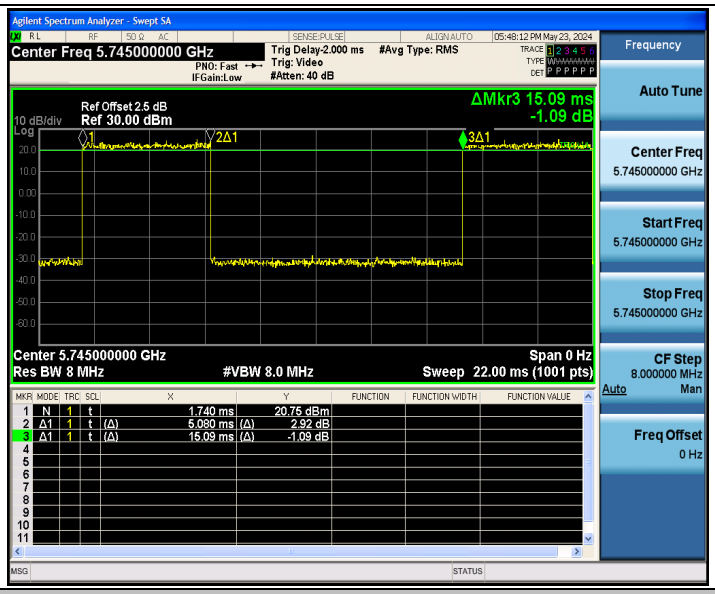


802.11n(HT20)_5745



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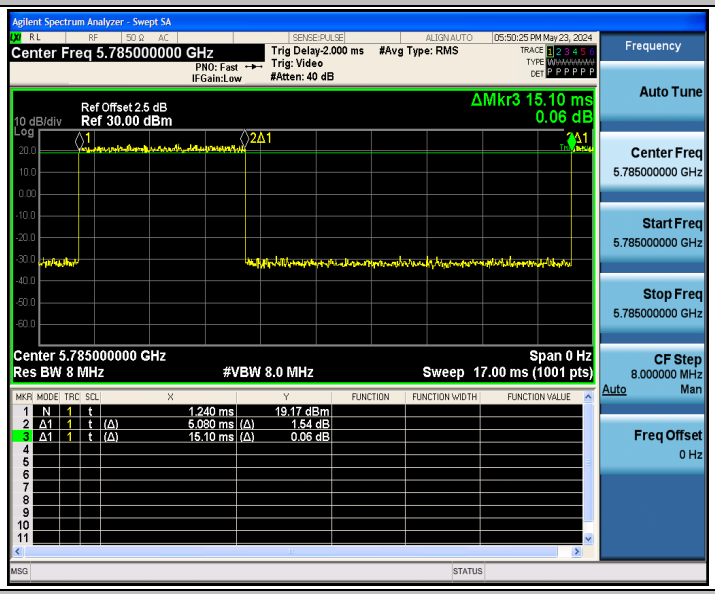
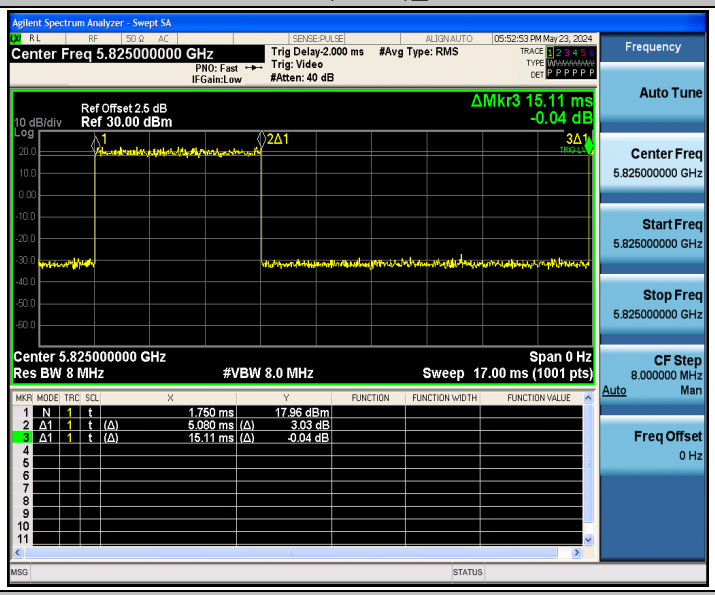
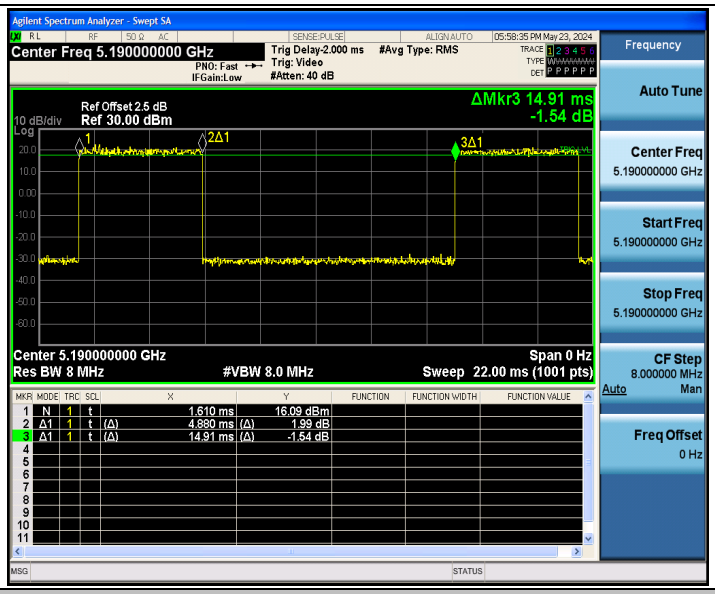


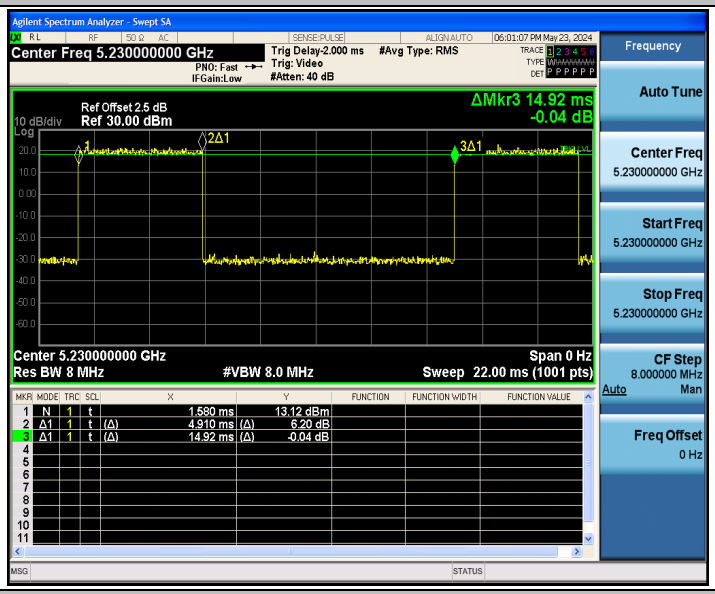
802.11n(HT20)_5825



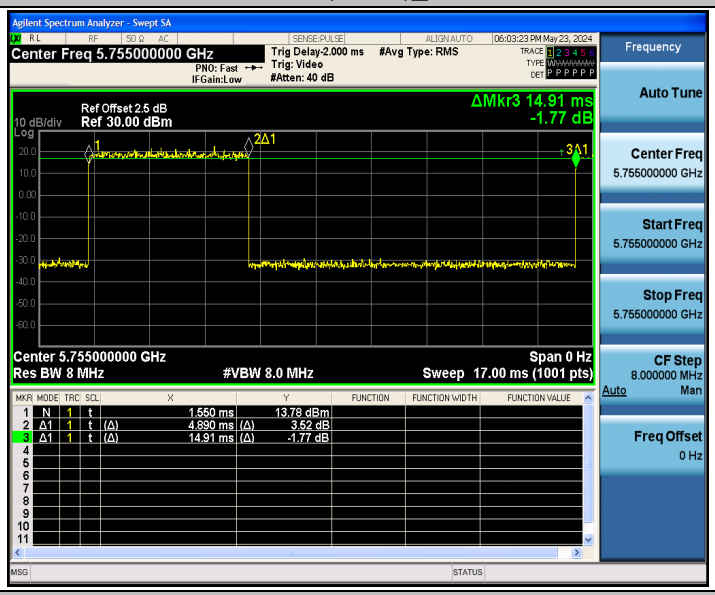
802.11n(HT40)_5190



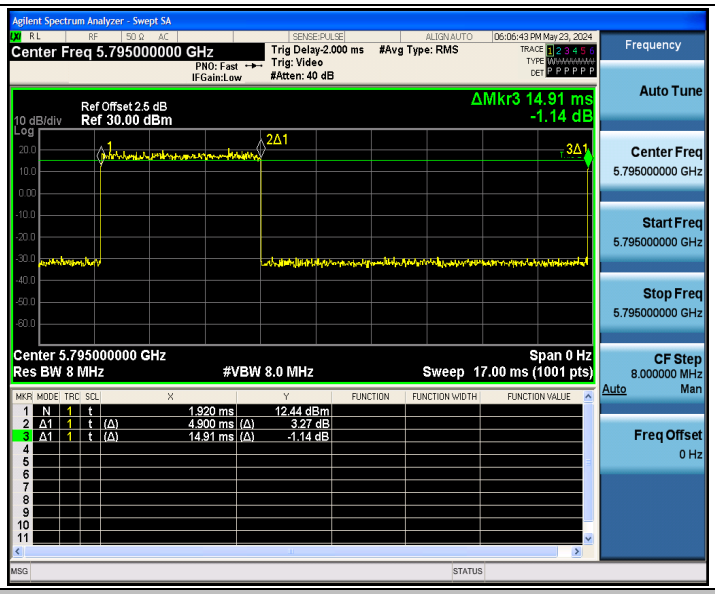
802.11n(HT40)_5230



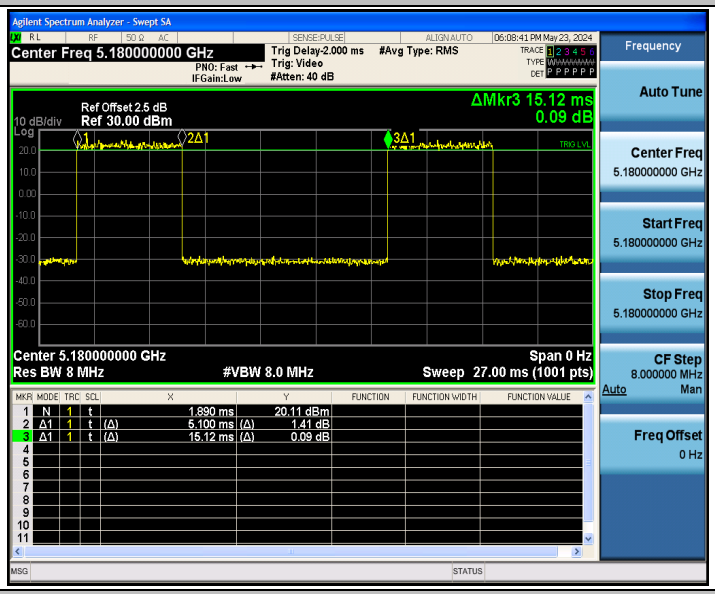
802.11n(HT40)_5755



802.11n(HT40)_5795



802.11ac(VHT20)_5180



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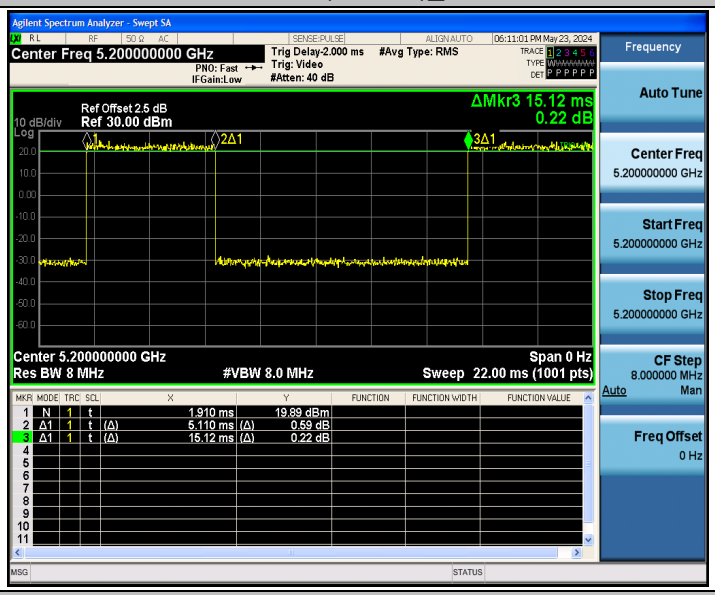

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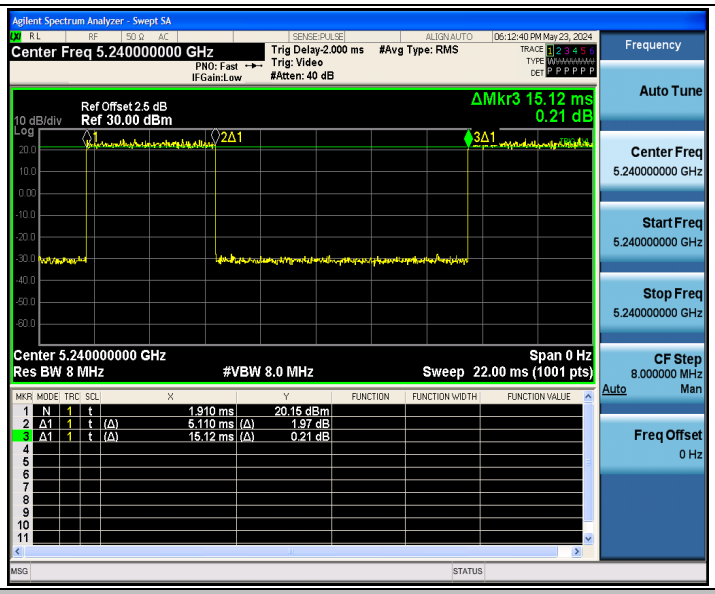

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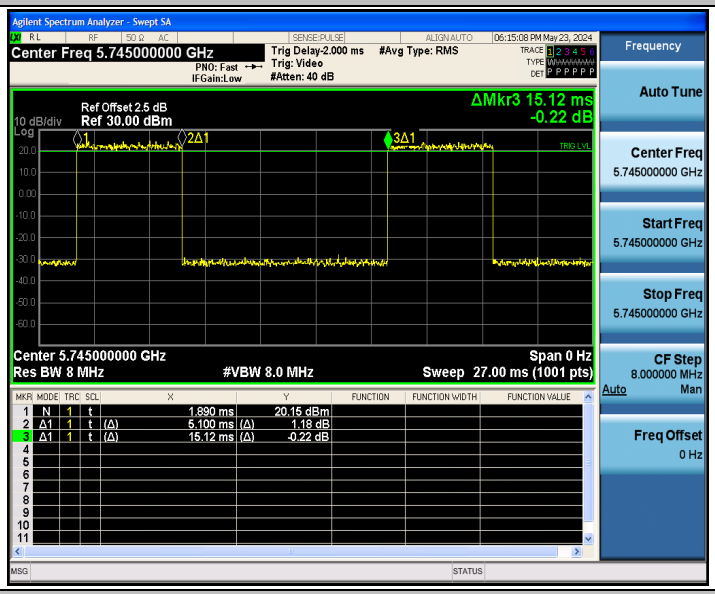

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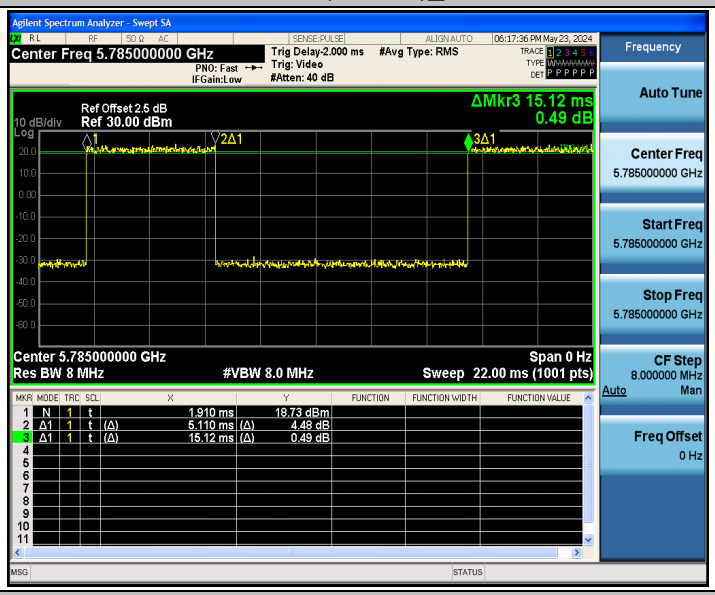

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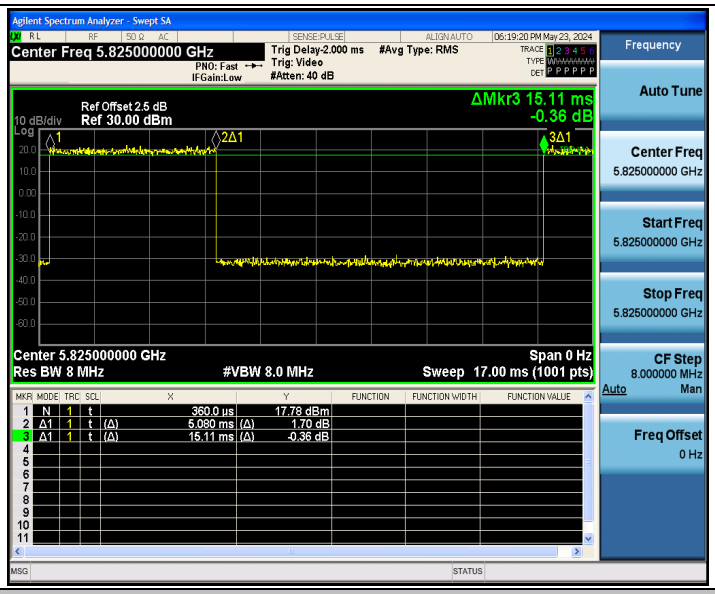

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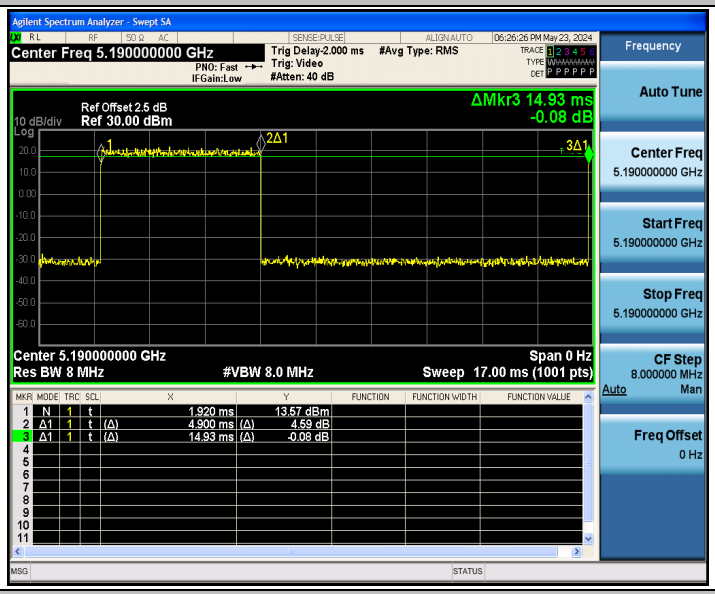

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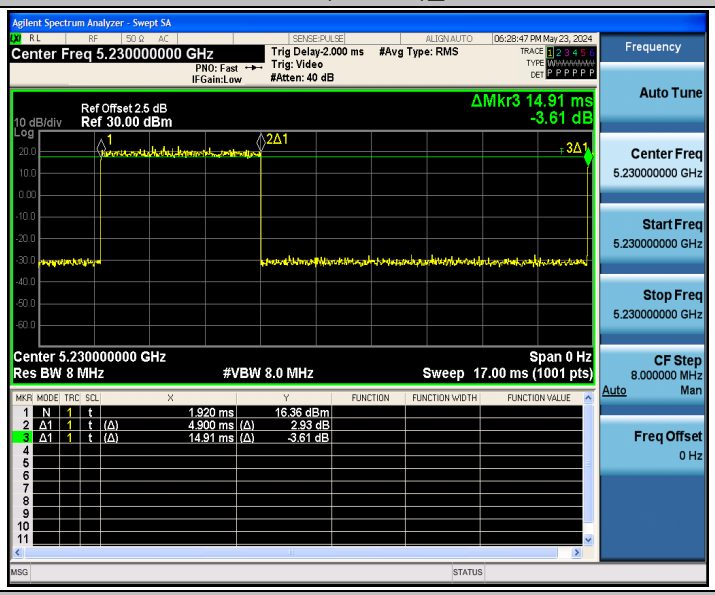

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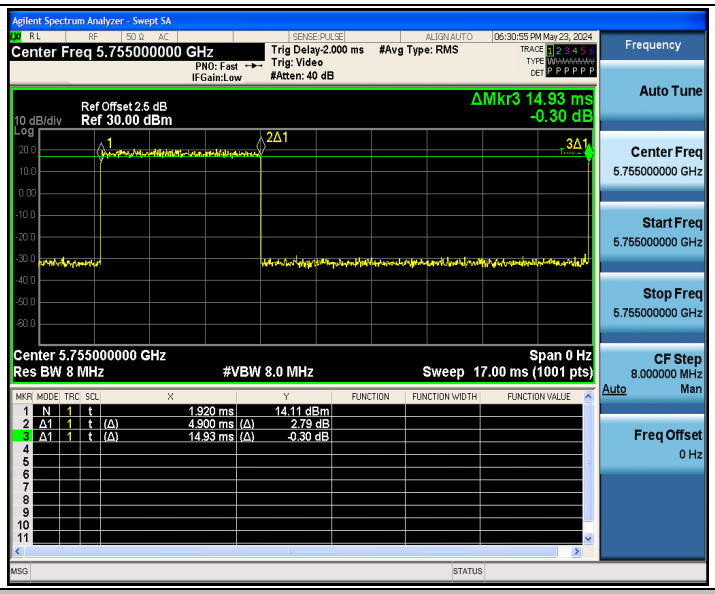

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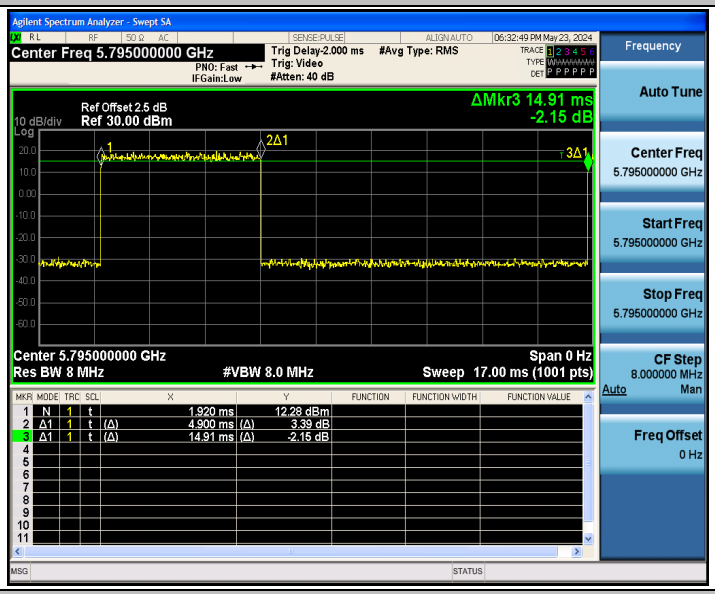

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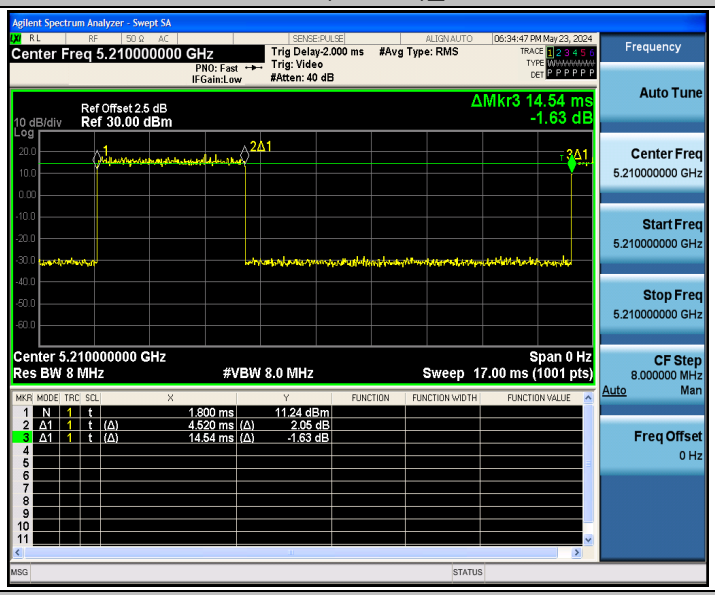

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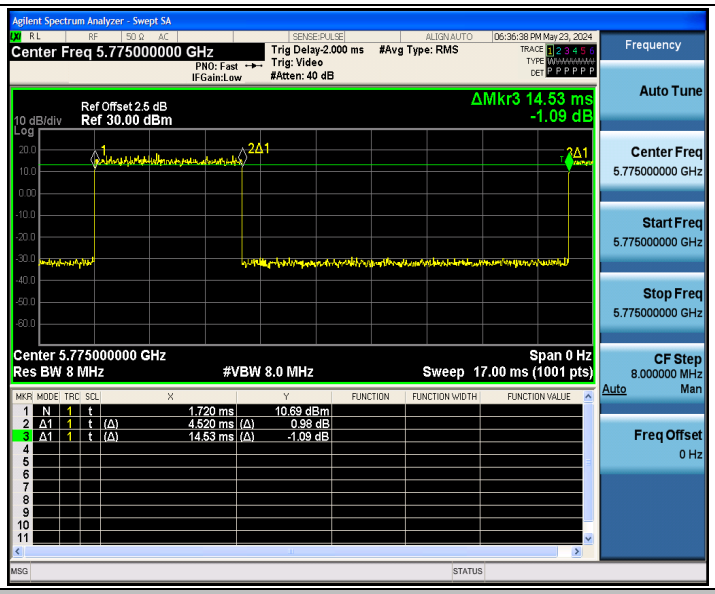

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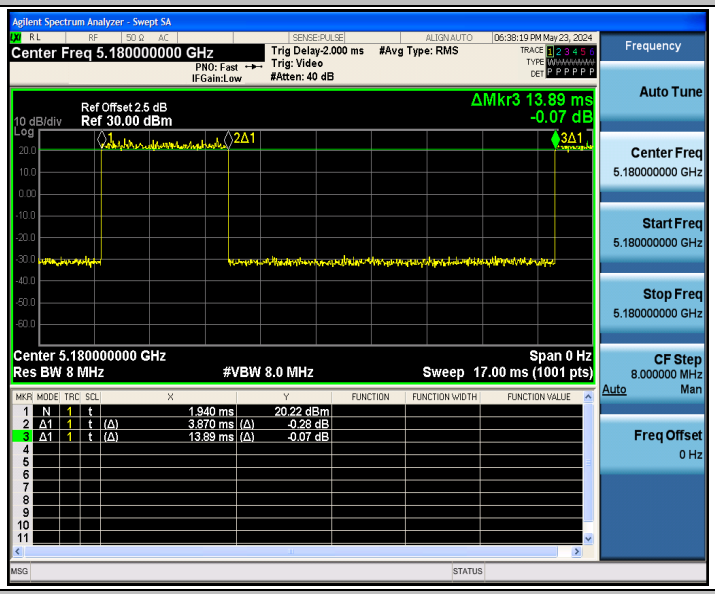

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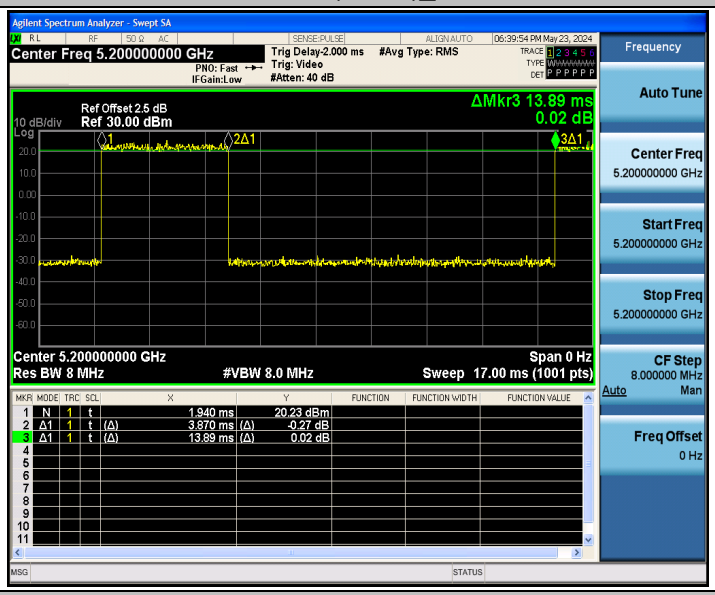

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