

Appendix Test Data

Report No.:	18220WC30265703	Test Sample No.:	1-2-2
Start Test Date:	2023.12.19	Finish Test Date:	2023.12.21
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	23.7°C	Relative Humidity:	40%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	WiFi 0	2412	9.040	2407.480	2416.520	0.5	PASS
	WiFi 1	2412	9.040	2407.480	2416.520	0.5	PASS
	WiFi 0	2437	9.040	2432.480	2441.520	0.5	PASS
	WiFi 1	2437	9.000	2432.480	2441.480	0.5	PASS
	WiFi 0	2462	8.040	2457.960	2466.000	0.5	PASS
	WiFi 1	2462	9.000	2457.480	2466.480	0.5	PASS
11G	WiFi 0	2412	15.080	2404.440	2419.520	0.5	PASS
	WiFi 1	2412	14.480	2404.440	2418.920	0.5	PASS
	WiFi 0	2437	14.920	2429.560	2444.480	0.5	PASS
	WiFi 1	2437	13.840	2430.720	2444.560	0.5	PASS
	WiFi 0	2462	13.560	2455.360	2468.920	0.5	PASS
	WiFi 1	2462	15.040	2454.480	2469.520	0.5	PASS
11N20SISO	WiFi 0	2412	15.080	2404.480	2419.560	0.5	PASS
	WiFi 1	2412	15.080	2404.440	2419.520	0.5	PASS
	WiFi 0	2437	15.040	2429.520	2444.560	0.5	PASS
	WiFi 1	2437	15.040	2429.480	2444.520	0.5	PASS
	WiFi 0	2462	13.800	2455.360	2469.160	0.5	PASS
	WiFi 1	2462	16.360	2454.120	2470.480	0.5	PASS
11N40SISO	WiFi 0	2422	35.040	2404.480	2439.520	0.5	PASS
	WiFi 1	2422	33.760	2404.560	2438.320	0.5	PASS
	WiFi 0	2437	35.040	2419.480	2454.520	0.5	PASS
	WiFi 1	2437	33.840	2420.680	2454.520	0.5	PASS

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	WiFi 0	2452	33.840	2435.680	2469.520	0.5	PASS
	WiFi 1	2452	35.120	2434.480	2469.600	0.5	PASS

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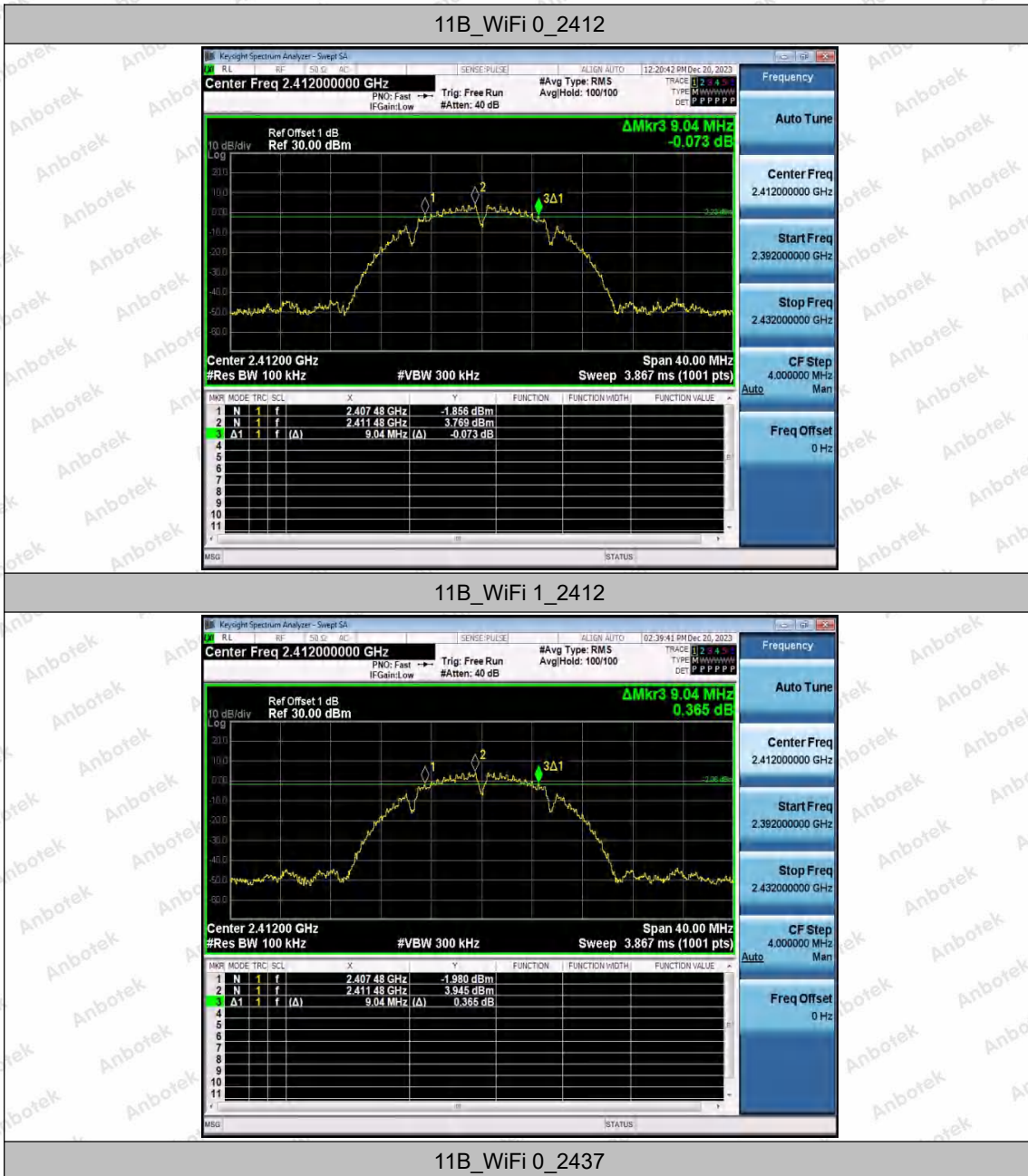
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Test Graphs



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11B_WiFi 1_2437



11B_WiFi 0_2462

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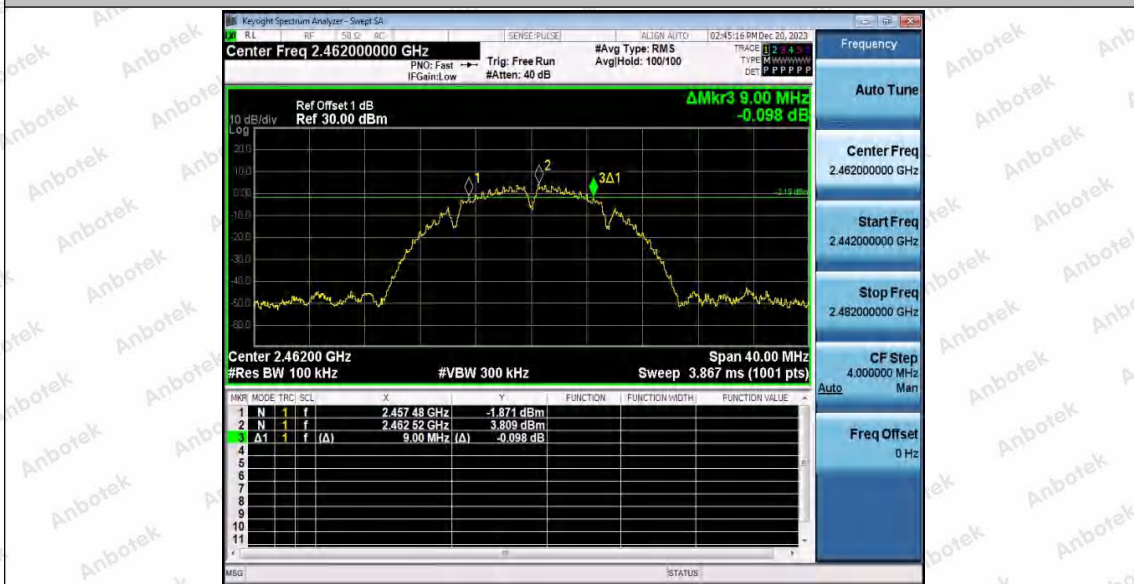
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11B_WiFi 1_2462



11G_WiFi 0_2412

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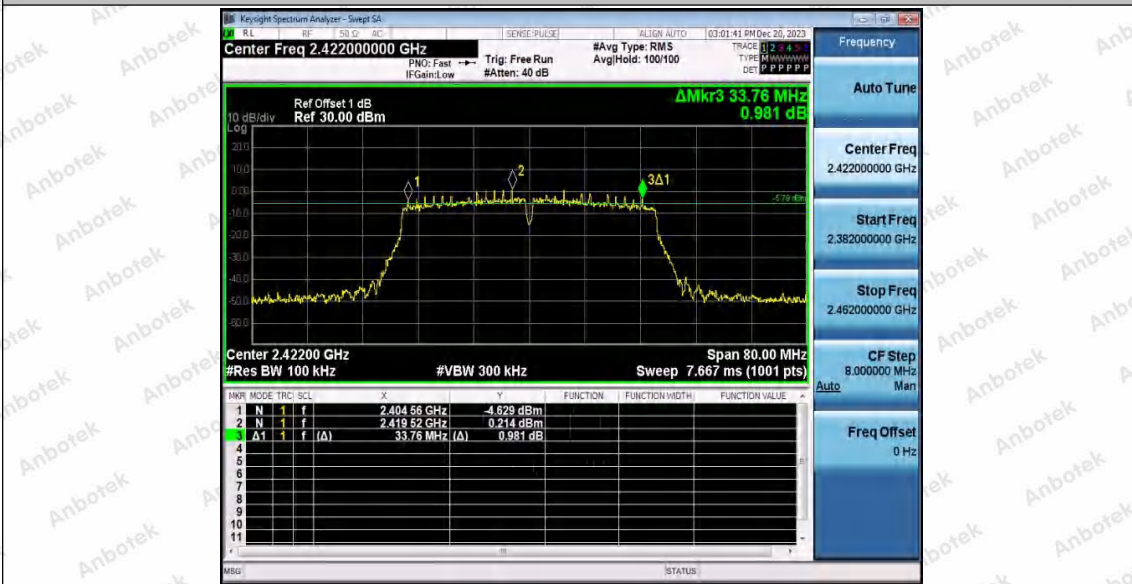
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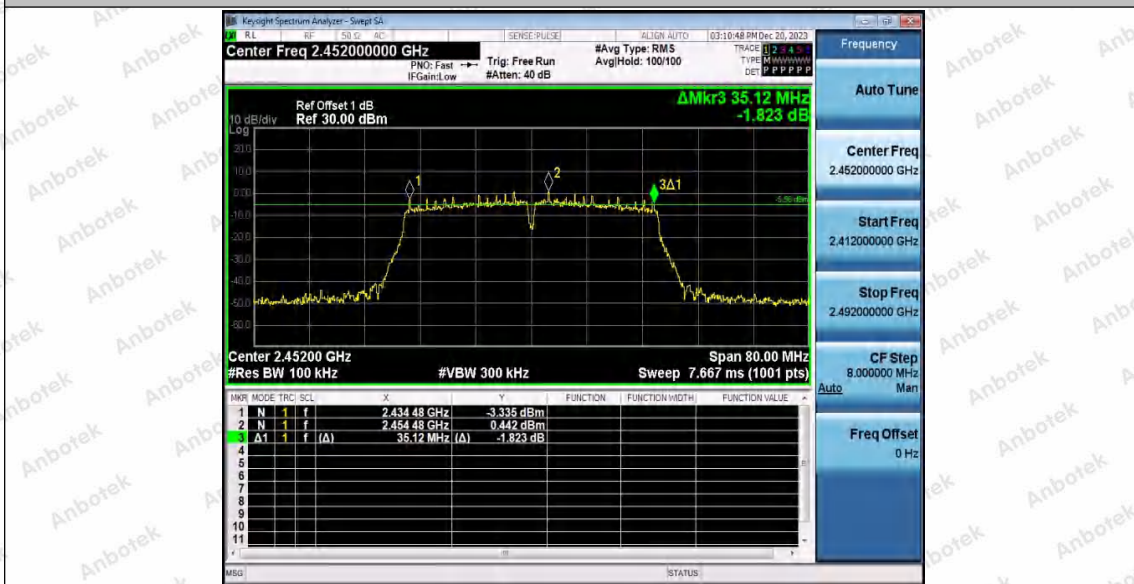
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	WiFi 0	2412	13.290	2405.3774	2418.6674	---	---
	WiFi 1	2412	13.295	2405.3845	2418.6795	---	---
	WiFi 0	2437	13.268	2430.3843	2443.6523	---	---
	WiFi 1	2437	13.285	2430.3743	2443.6593	---	---
	WiFi 0	2462	13.258	2455.3905	2468.6485	---	---
	WiFi 1	2462	13.279	2455.3771	2468.6561	---	---
11G	WiFi 0	2412	16.809	2403.5756	2420.3846	---	---
	WiFi 1	2412	16.782	2403.6228	2420.4048	---	---
	WiFi 0	2437	16.828	2428.5617	2445.3897	---	---
	WiFi 1	2437	16.744	2428.6242	2445.3682	---	---
	WiFi 0	2462	16.852	2453.5300	2470.3820	---	---
	WiFi 1	2462	16.825	2453.5531	2470.3781	---	---
11N20SISO	WiFi 0	2412	17.802	2403.1404	2420.9424	---	---
	WiFi 1	2412	17.794	2403.1137	2420.9077	---	---
	WiFi 0	2437	17.791	2428.1290	2445.9200	---	---
	WiFi 1	2437	17.822	2428.0906	2445.9126	---	---
	WiFi 0	2462	17.793	2453.1184	2470.9114	---	---
	WiFi 1	2462	17.792	2453.1047	2470.8967	---	---
11N40SISO	WiFi 0	2422	36.061	2404.0247	2440.0857	---	---
	WiFi 1	2422	36.113	2403.9824	2440.0954	---	---
	WiFi 0	2437	35.944	2419.0625	2455.0065	---	---
	WiFi 1	2437	35.965	2419.0499	2455.0149	---	---
	WiFi 0	2452	36.071	2434.0193	2470.0903	---	---
	WiFi 1	2452	36.079	2434.0499	2470.1289	---	---
	WiFi 1	2452	36.049	2434.0279	2470.0769	---	---



Test Graphs



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11B_WiFi 0_2462

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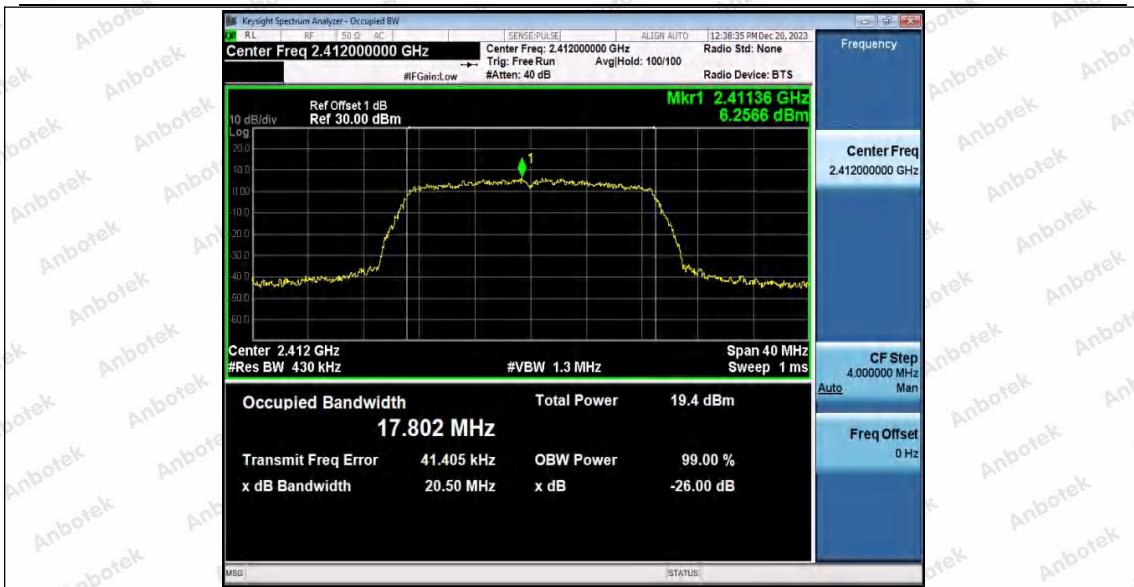
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	WiFi 0	2412	13.00	≤30.00
	WiFi 1	2412	13.20	≤30.00
	WiFi 0	2437	13.08	≤30.00
	WiFi 1	2437	13.36	≤30.00
	WiFi 0	2462	12.89	≤30.00
	WiFi 1	2462	13.06	≤30.00
11G	WiFi 0	2412	13.41	≤30.00
	WiFi 1	2412	13.62	≤30.00
	WiFi 0	2437	13.09	≤30.00
	WiFi 1	2437	13.28	≤30.00
	WiFi 0	2462	13.19	≤30.00
	WiFi 1	2462	13.28	≤30.00
11N20SISO	WiFi 0	2412	13.24	≤30.00
	WiFi 1	2412	13.36	≤30.00
	WiFi 0	2437	12.89	≤30.00
	WiFi 1	2437	13.13	≤30.00
	WiFi 0	2462	12.98	≤30.00
	WiFi 1	2462	13.11	≤30.00
11N40SISO	WiFi 0	2422	13.17	≤30.00
	WiFi 1	2422	13.49	≤30.00
	WiFi 0	2437	13.23	≤30.00
	WiFi 1	2437	13.38	≤30.00
	WiFi 0	2452	13.15	≤30.00
	WiFi 1	2452	13.41	≤30.00

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.

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MIMO:

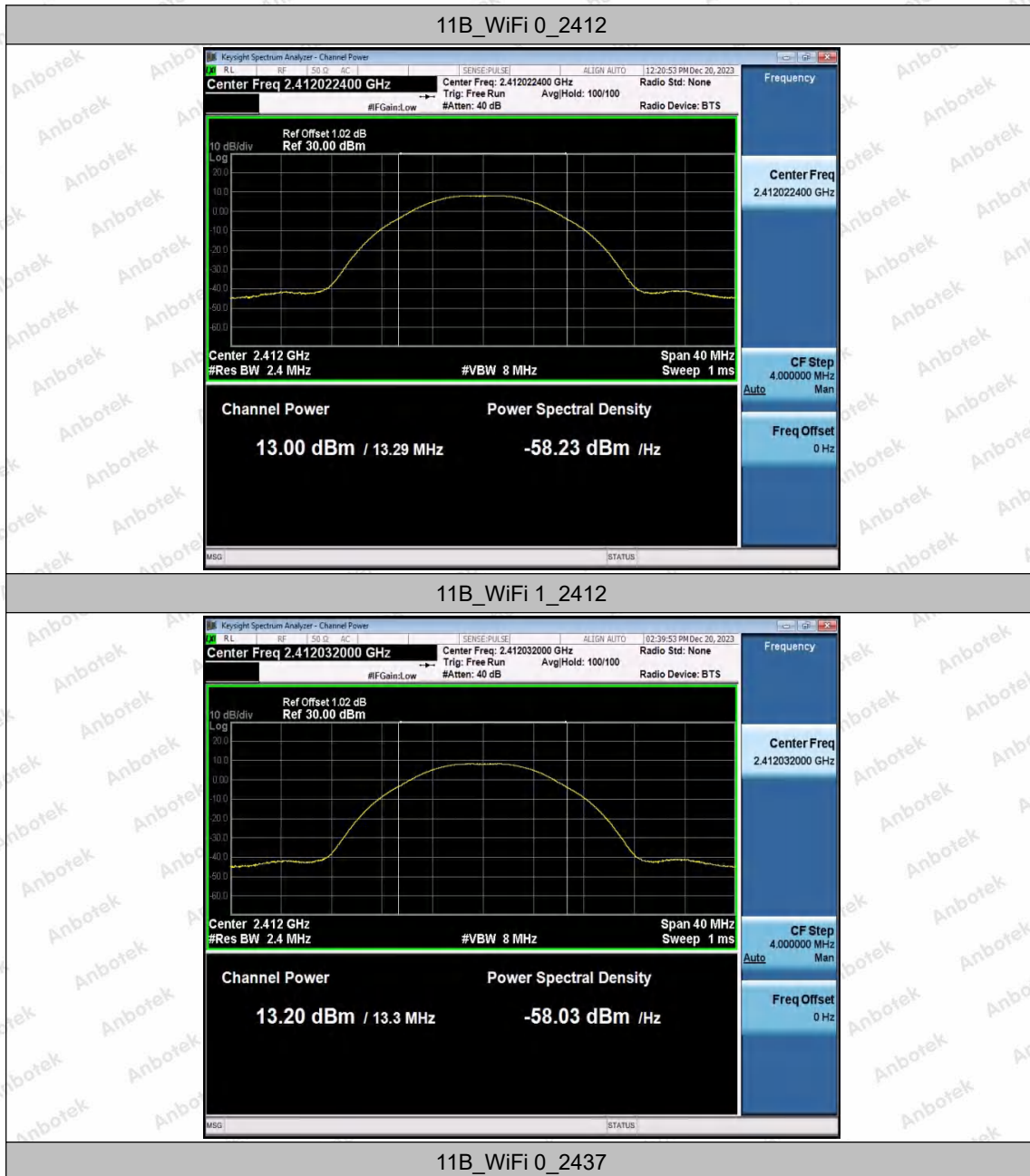
Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Total [dBm]	Limit [dBm]	Verdict
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	WiFi 1	2412	13.36			
	WiFi 0	2437	12.89	16.02	≤30.00	PASS
	WiFi 1	2437	13.13			
	WiFi 0	2462	12.98	16.06	≤30.00	PASS
	WiFi 1	2462	13.11			
11N40MIMO	WiFi 0	2422	13.17	16.34	≤30.00	PASS
	WiFi 1	2422	13.49			
	WiFi 0	2437	13.23	16.32	≤30.00	PASS
	WiFi 1	2437	13.38			
	WiFi 0	2452	13.15	16.29	≤30.00	PASS
	WiFi 1	2452	13.41			

Note:

1. Total (dBm)=10xlog(10^{(WiFi 0 power(dBm)/10)} + 10^{(WiFi 1 power(dBm)/10)})



Test Graphs



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11B_WiFi 0_2462

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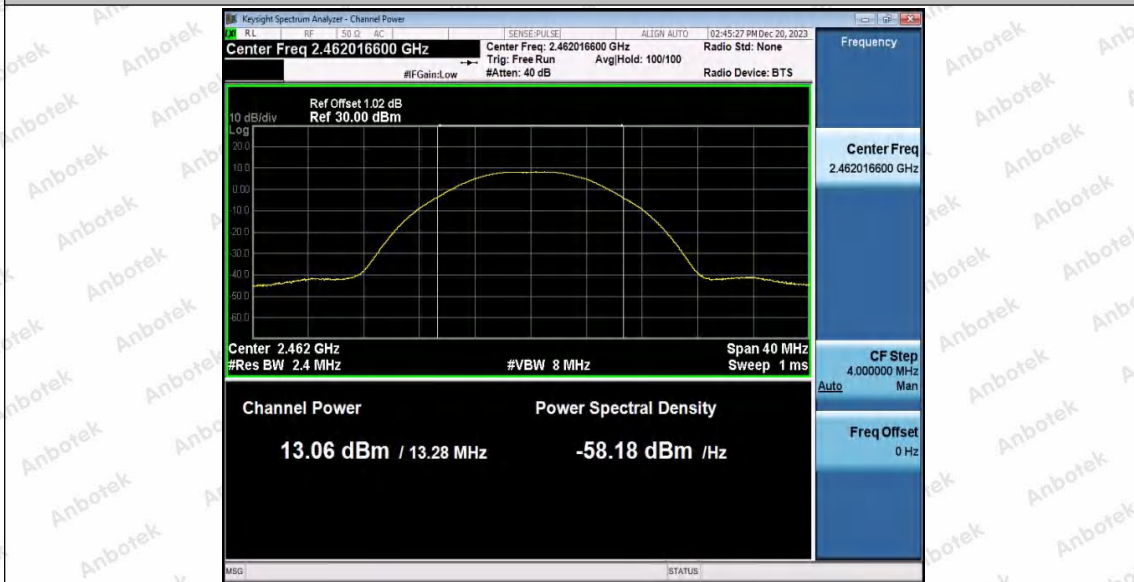
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11B_WiFi 1_2462



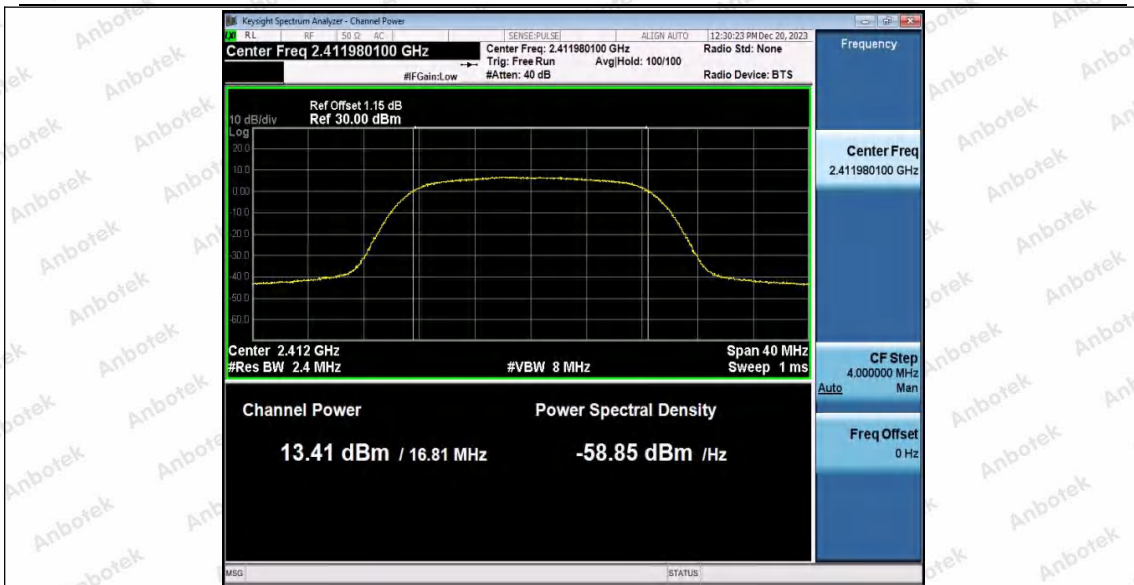
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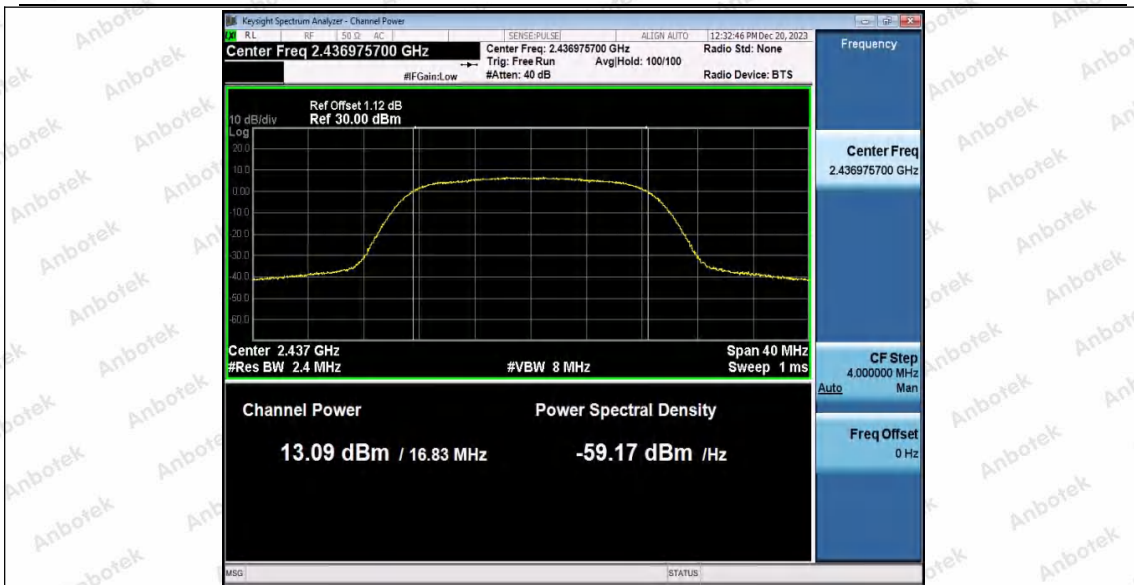


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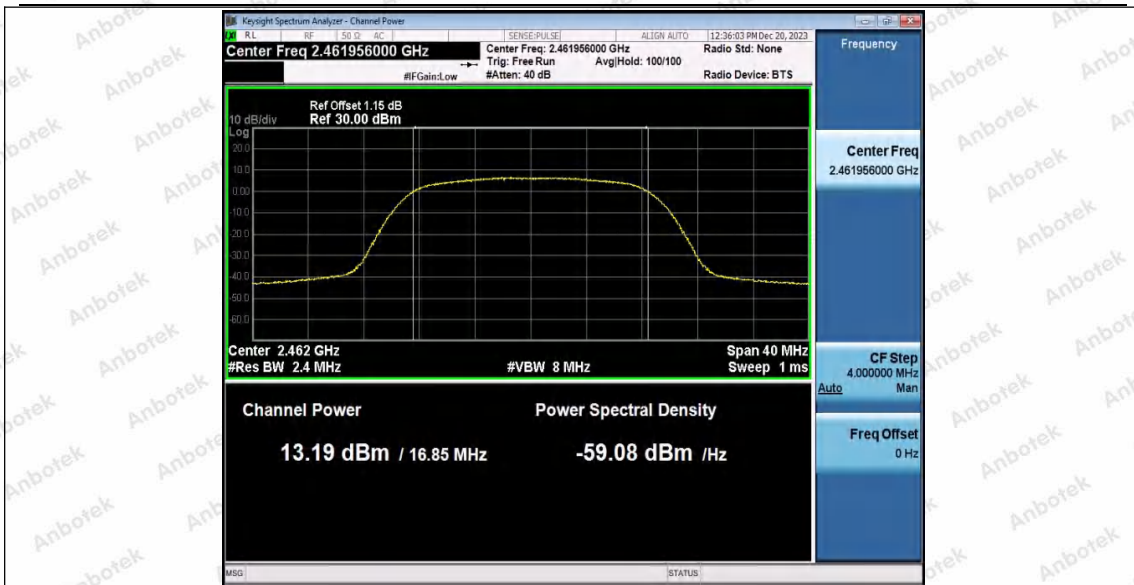
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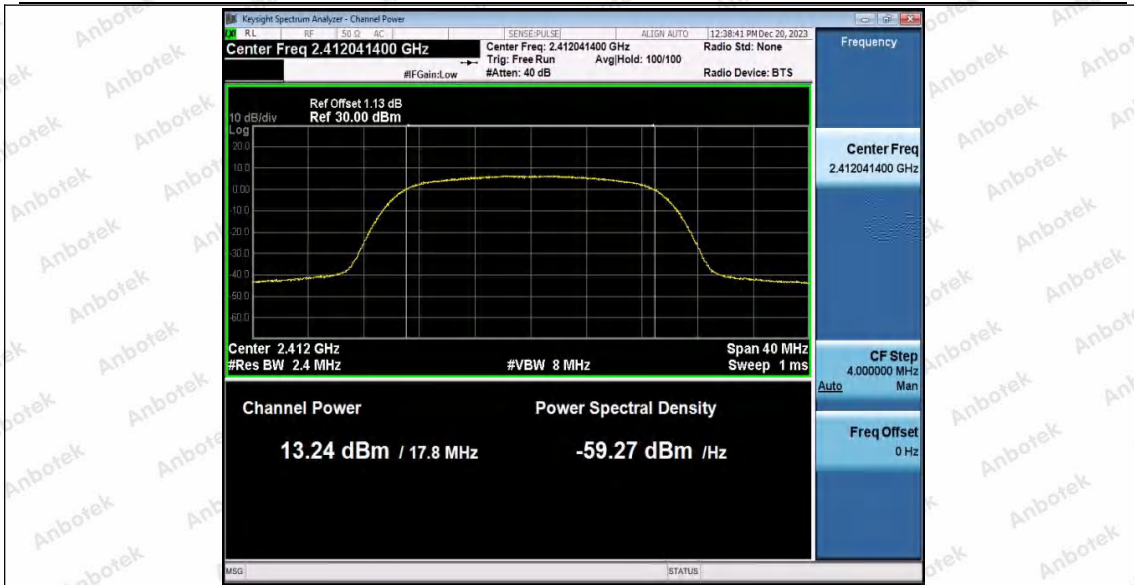
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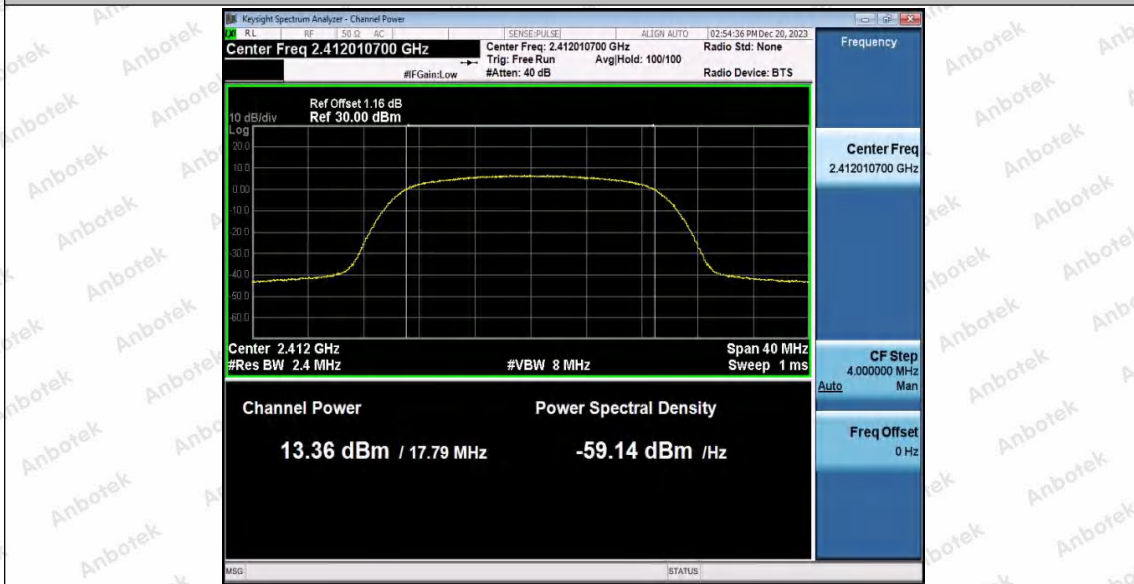
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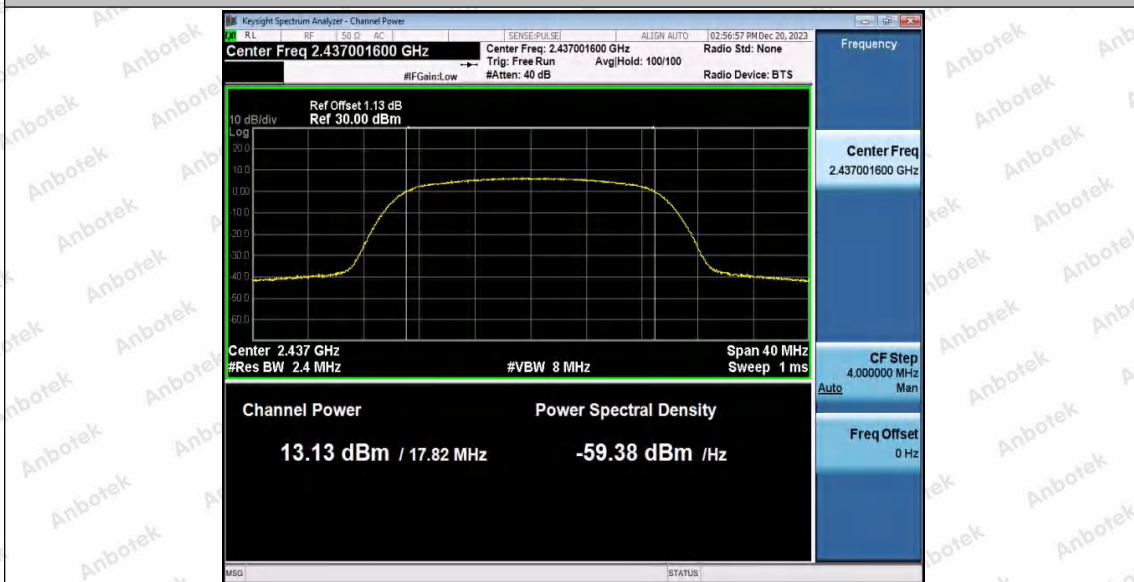
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11N20SISO_WiFi_1_2437



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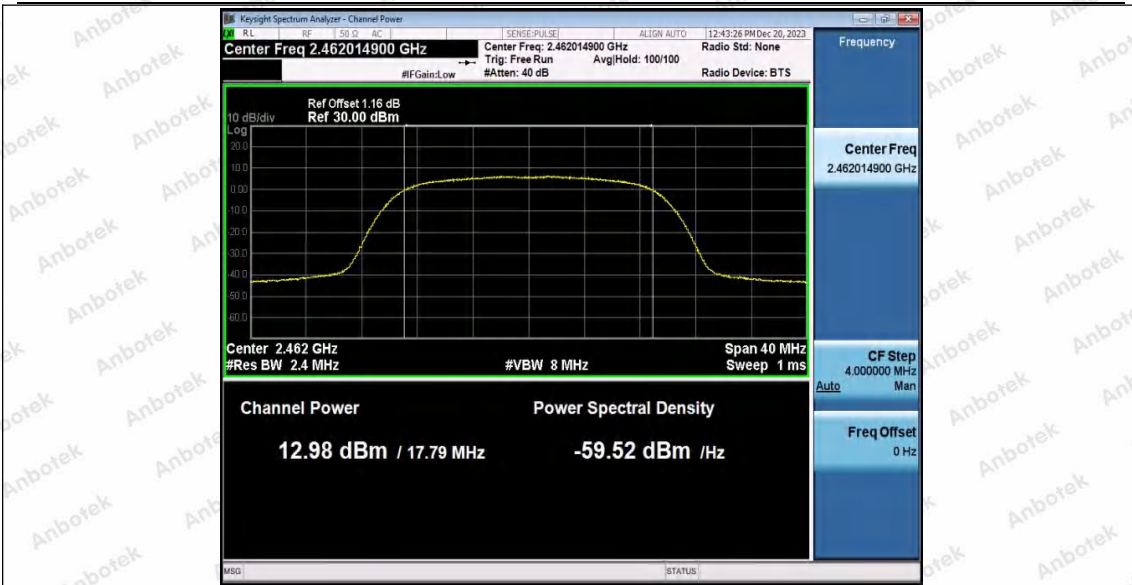
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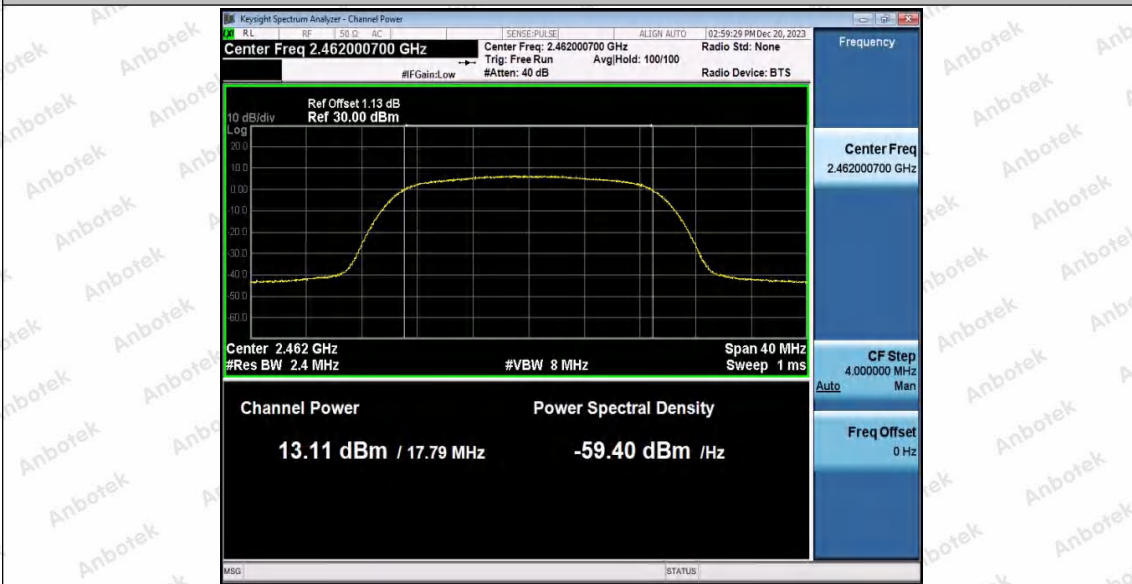


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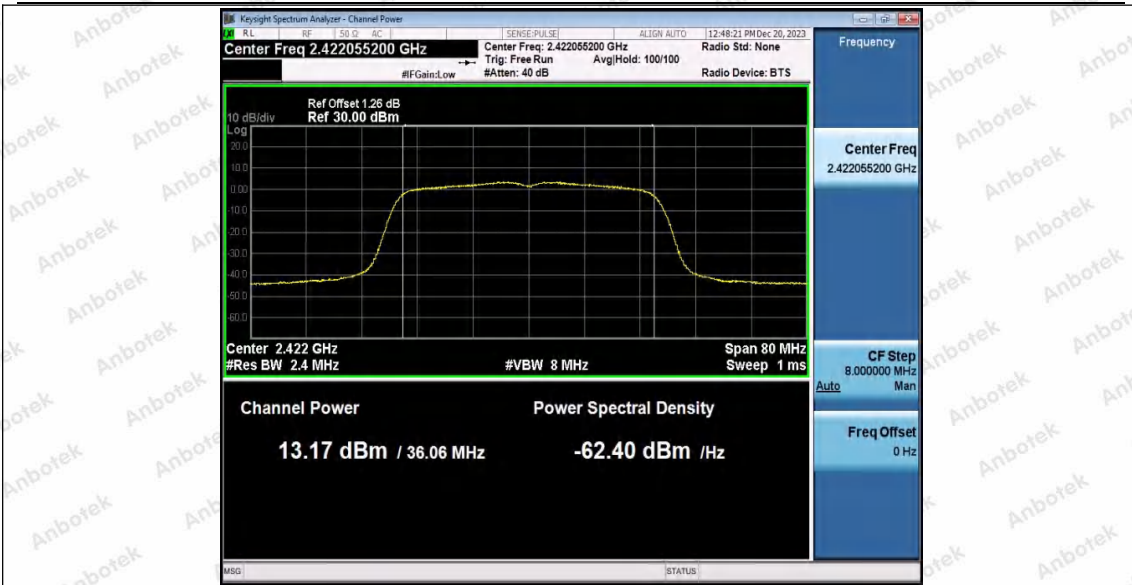
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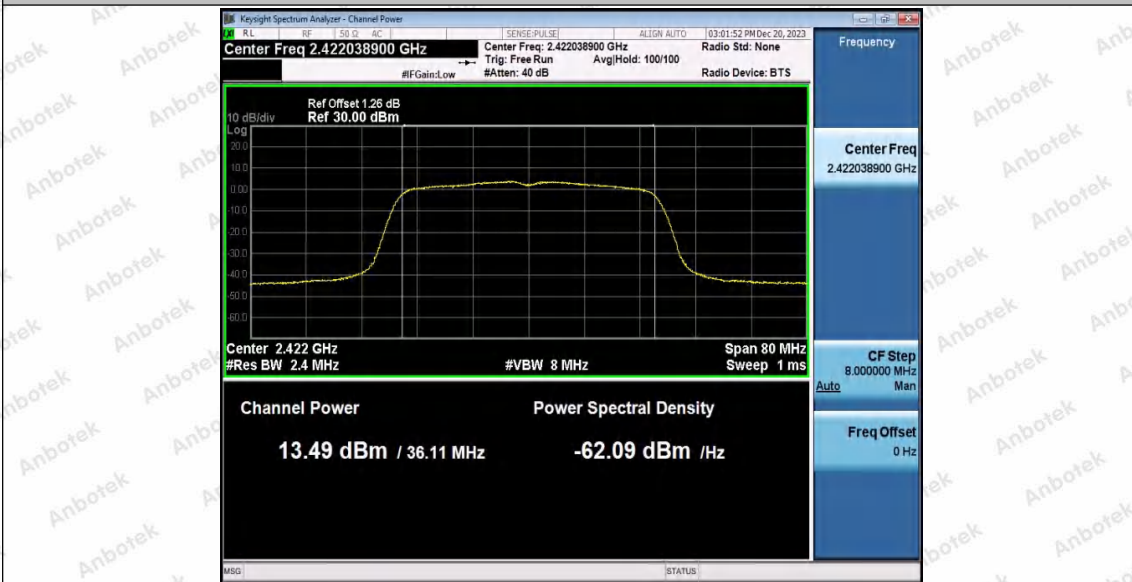
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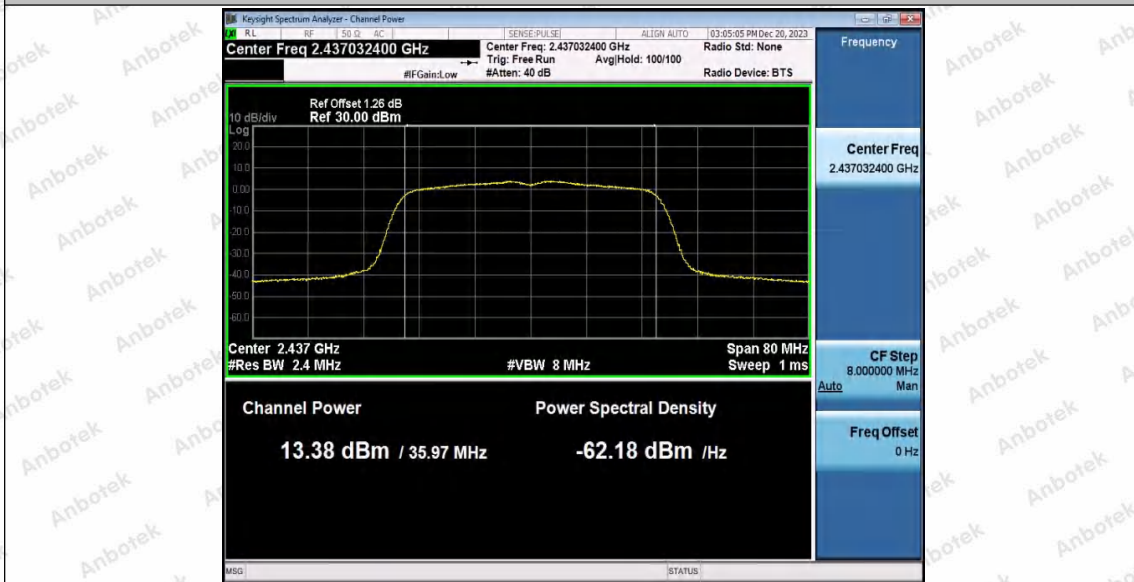
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11N40SISO_WiFi_0_2452

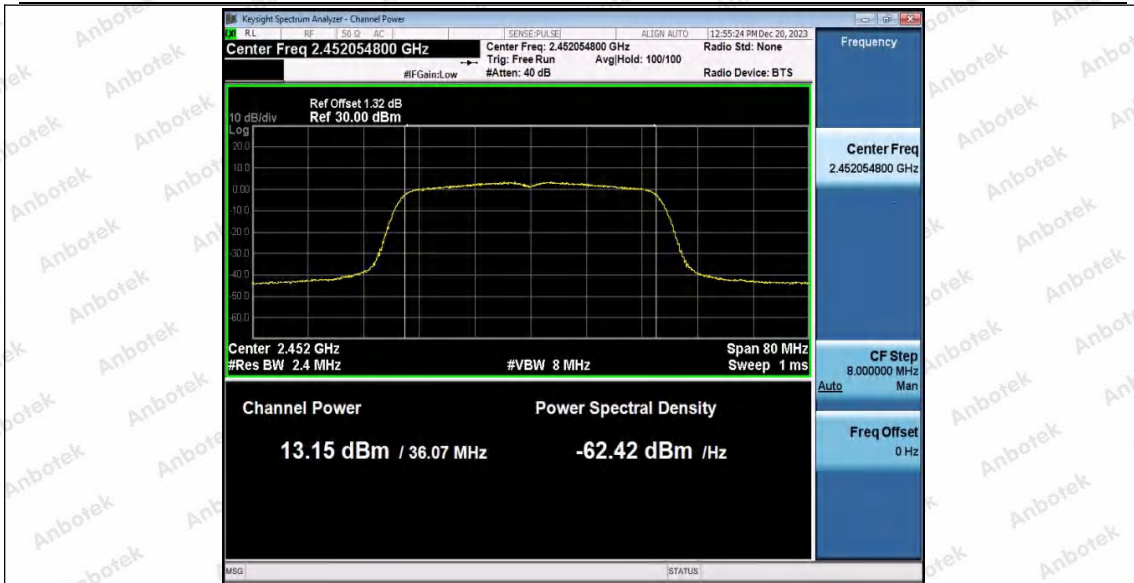
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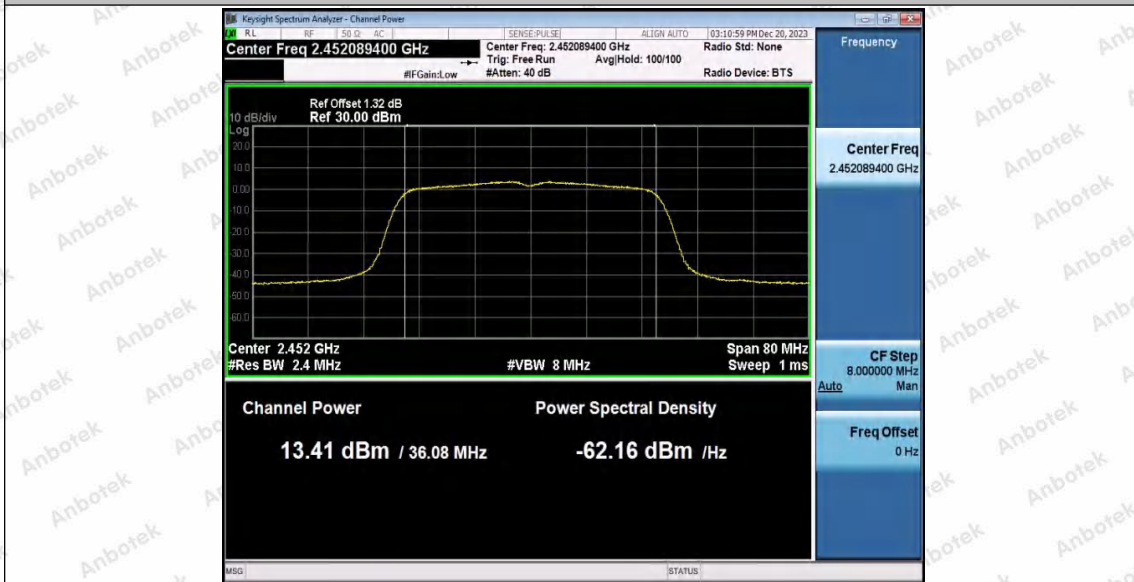


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	WiFi 0	2412	-12.27	≤8.00	PASS
	WiFi 1	2412	-9.86	≤8.00	PASS
	WiFi 0	2437	-17.38	≤8.00	PASS
	WiFi 1	2437	-7.43	≤8.00	PASS
	WiFi 0	2462	-10.22	≤8.00	PASS
	WiFi 1	2462	-8.67	≤8.00	PASS
11G	WiFi 0	2412	-17.5	≤8.00	PASS
	WiFi 1	2412	-17.02	≤8.00	PASS
	WiFi 0	2437	-18.36	≤8.00	PASS
	WiFi 1	2437	-17.26	≤8.00	PASS
	WiFi 0	2462	-17.1	≤8.00	PASS
	WiFi 1	2462	-17.98	≤8.00	PASS
11N20SISO	WiFi 0	2412	-18.11	≤8.00	PASS
	WiFi 1	2412	-17.67	≤8.00	PASS
	WiFi 0	2437	-17.94	≤8.00	PASS
	WiFi 1	2437	-17.35	≤8.00	PASS
	WiFi 0	2462	-18.02	≤8.00	PASS
	WiFi 1	2462	-18.06	≤8.00	PASS
11N40SISO	WiFi 0	2422	-21.17	≤8.00	PASS
	WiFi 1	2422	-20.3	≤8.00	PASS
	WiFi 0	2437	-20.48	≤8.00	PASS
	WiFi 1	2437	-20.3	≤8.00	PASS
	WiFi 0	2452	-20.98	≤8.00	PASS
	WiFi 1	2452	-19.48	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm/3kHz]	Total [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20MIMO	WiFi 0	2412	-18.11	-14.87	≤8.00	PASS
	WiFi 1	2412	-17.67			
	WiFi 0	2437	-17.94	-14.62	≤8.00	PASS
	WiFi 1	2437	-17.35			
	WiFi 0	2462	-18.02	-15.03	≤8.00	PASS
	WiFi 1	2462	-18.06			
11N40MIMO	WiFi 0	2422	-21.17	-17.70	≤8.00	PASS
	WiFi 1	2422	-20.30			
	WiFi 0	2437	-20.48	-17.38	≤8.00	PASS
	WiFi 1	2437	-20.30			
	WiFi 0	2452	-20.98	-17.16	≤8.00	PASS
	WiFi 1	2452	-19.48			

Note:

1. Total (dBm)=10xlog(10^{(WiFi 0 power(dBm)/10)} + 10^{(WiFi 1 power(dBm)/10)})



Test Graphs

11B_WiFi 0_2412



11B_WiFi 1_2412



11B_WiFi 0_2437

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11B_WiFi 1_2437



11B_WiFi 0_2462

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11B_WiFi 1_2462



11G_WiFi 0_2412

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11G_WiFi 1_2412



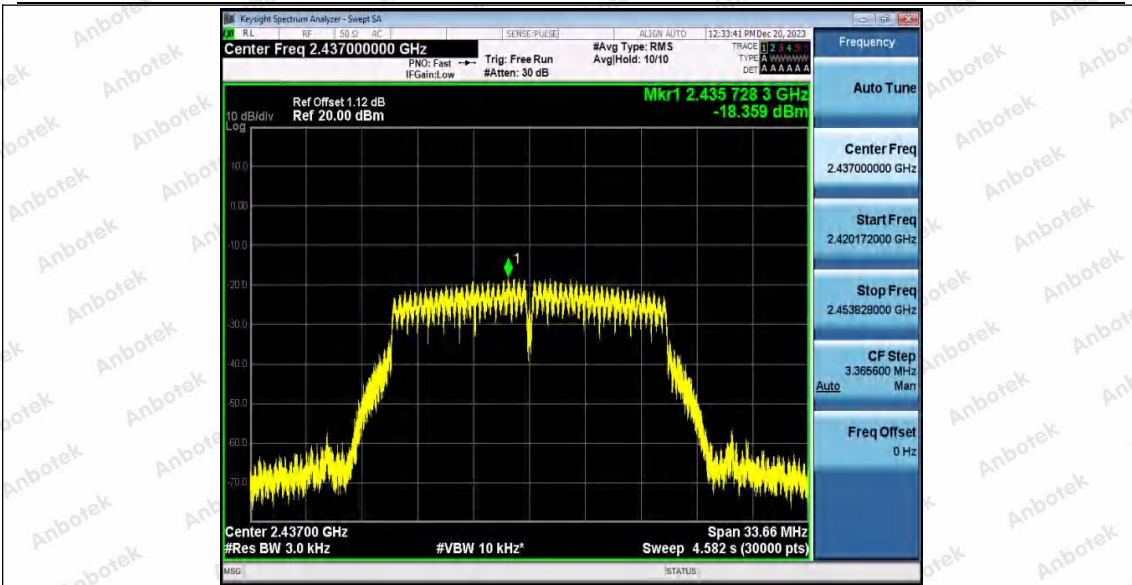
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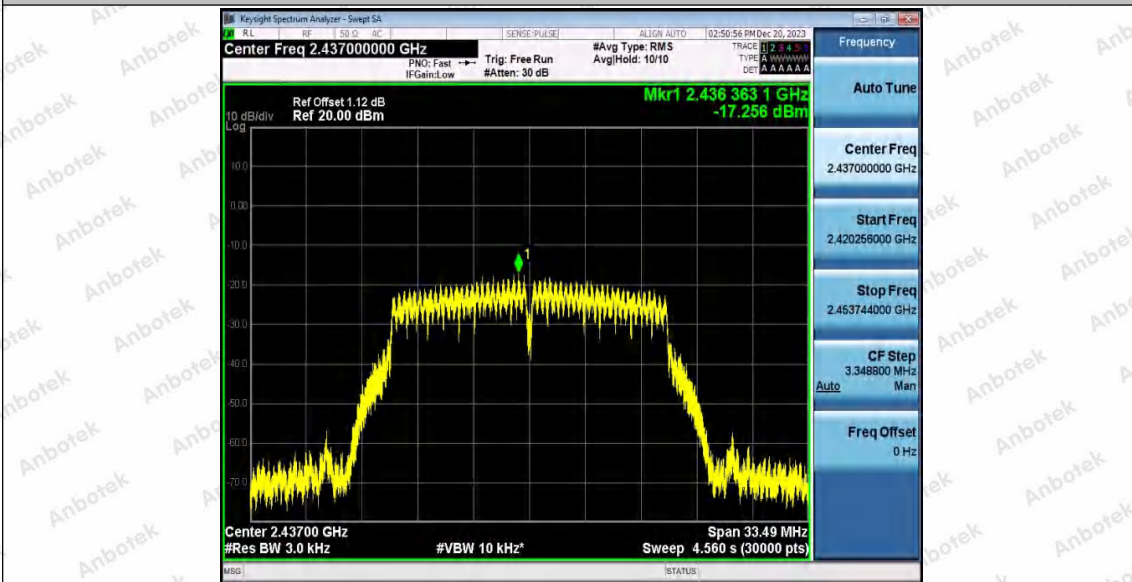
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11G_WiFi 1_2437



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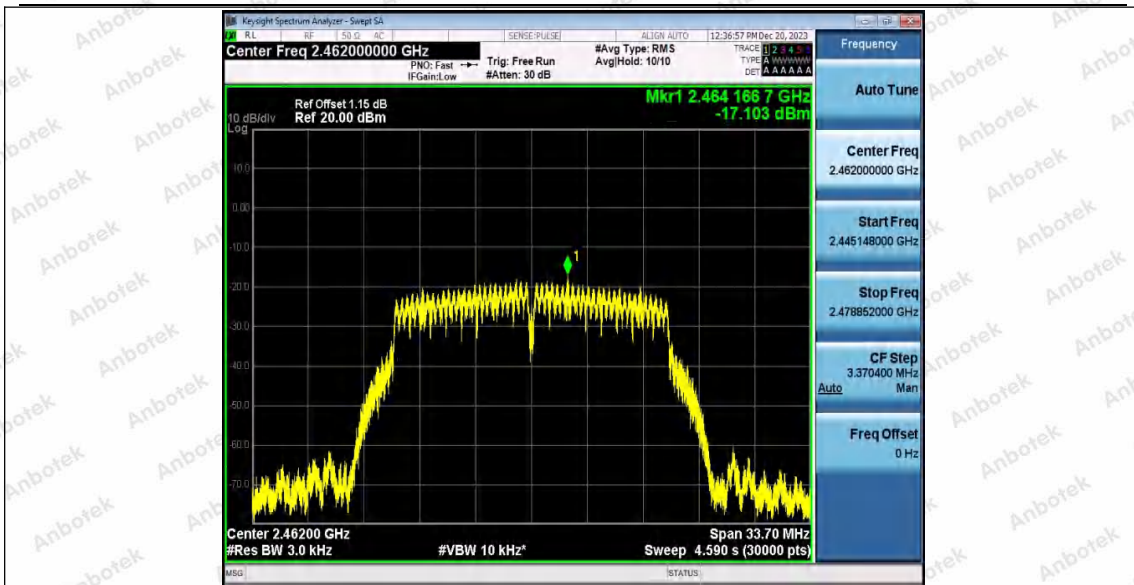
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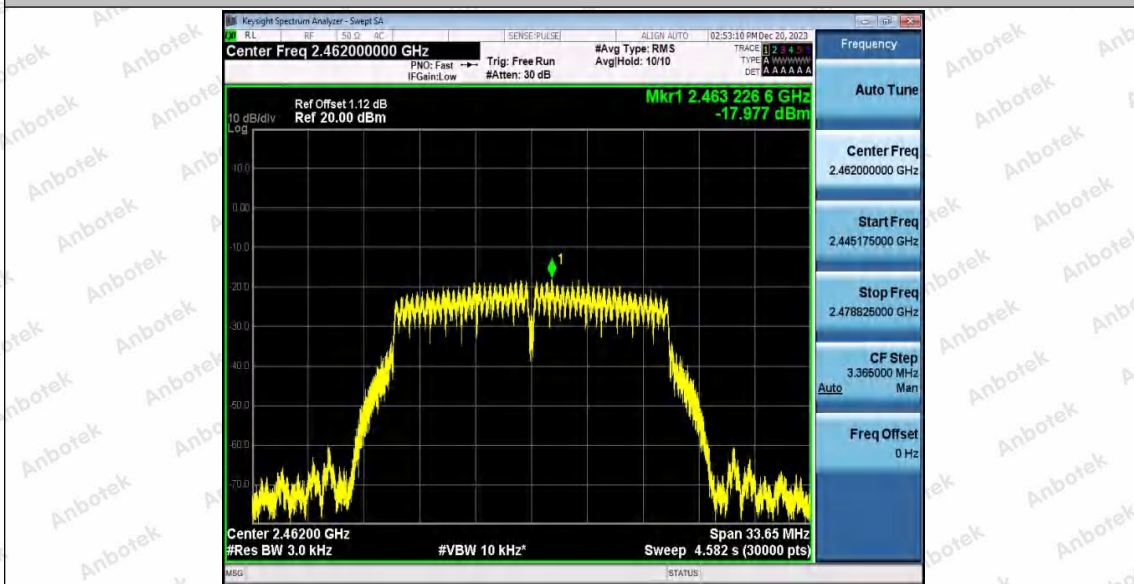


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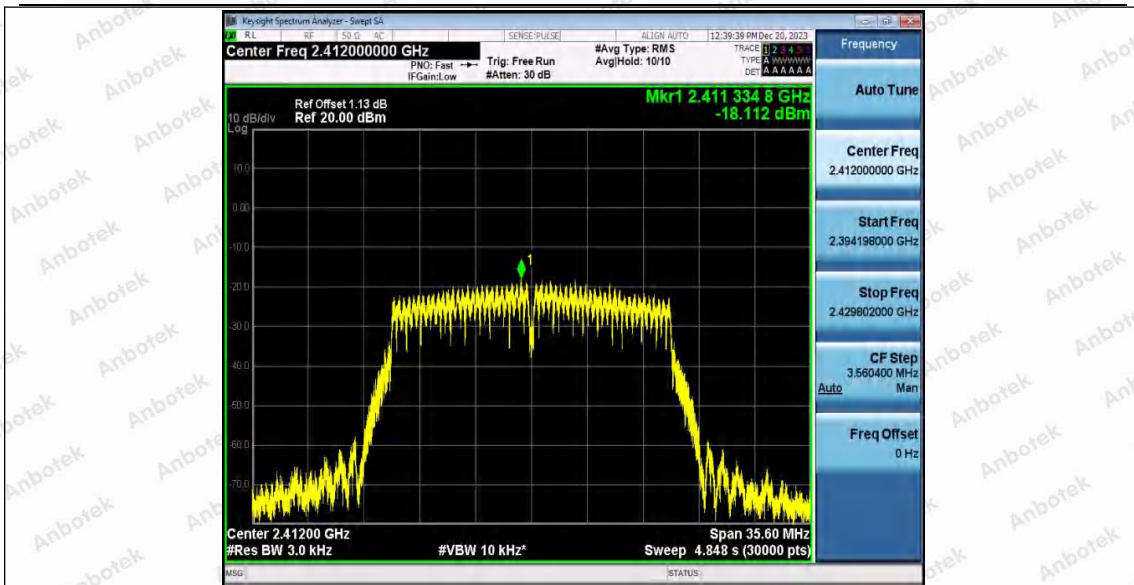
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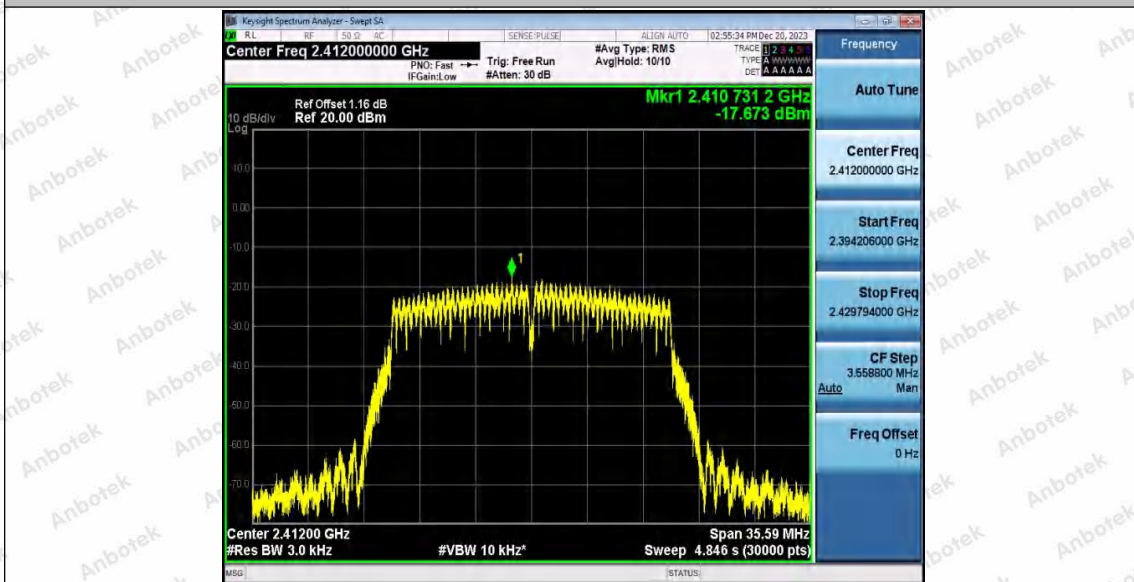
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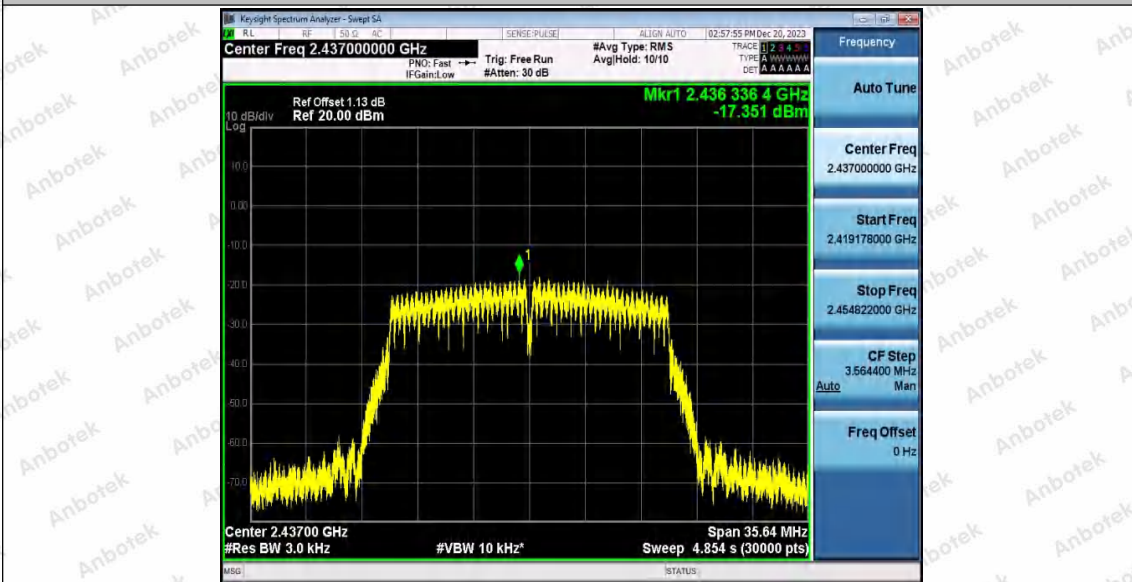
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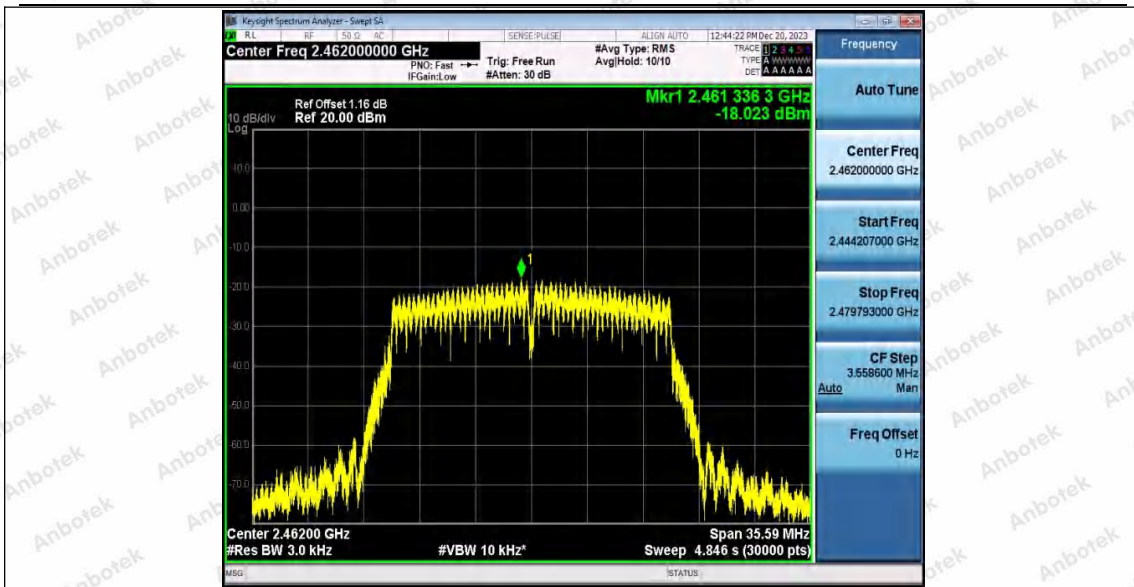
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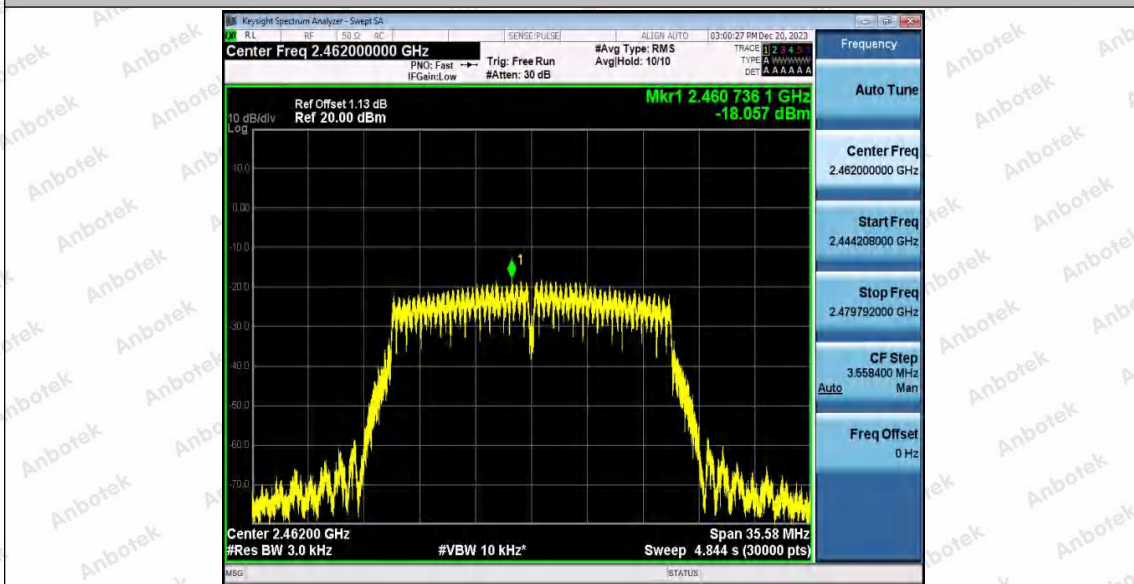
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11N20SISO_WiFi_1_2462



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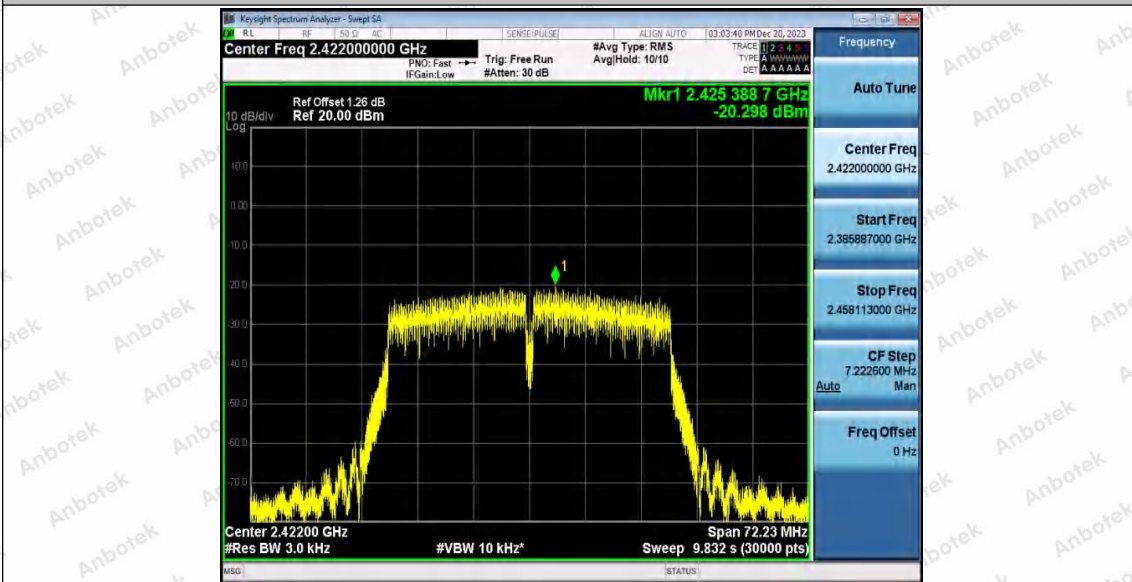
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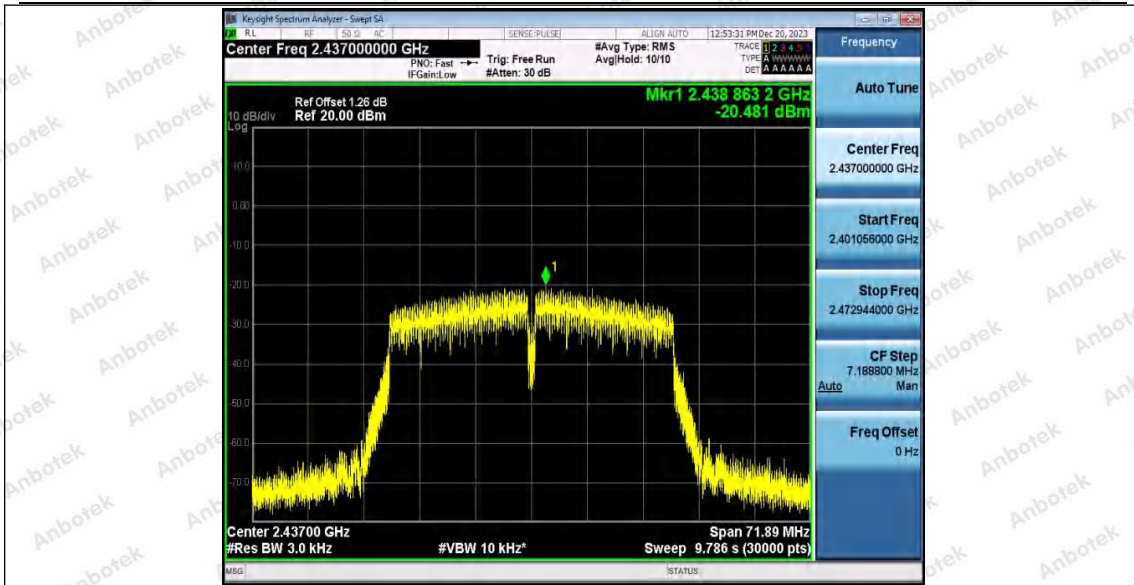
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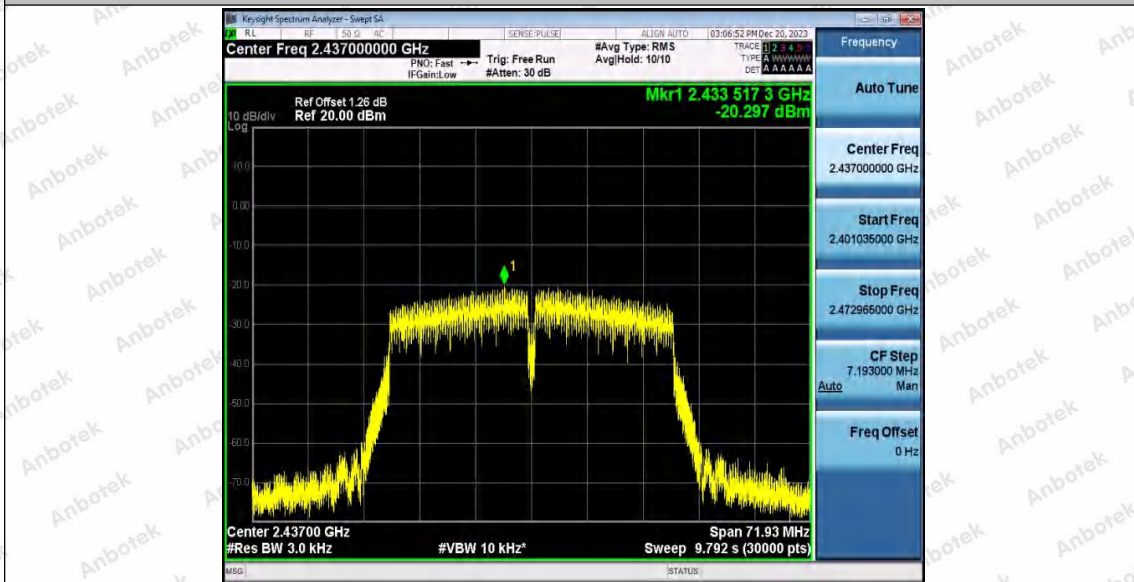
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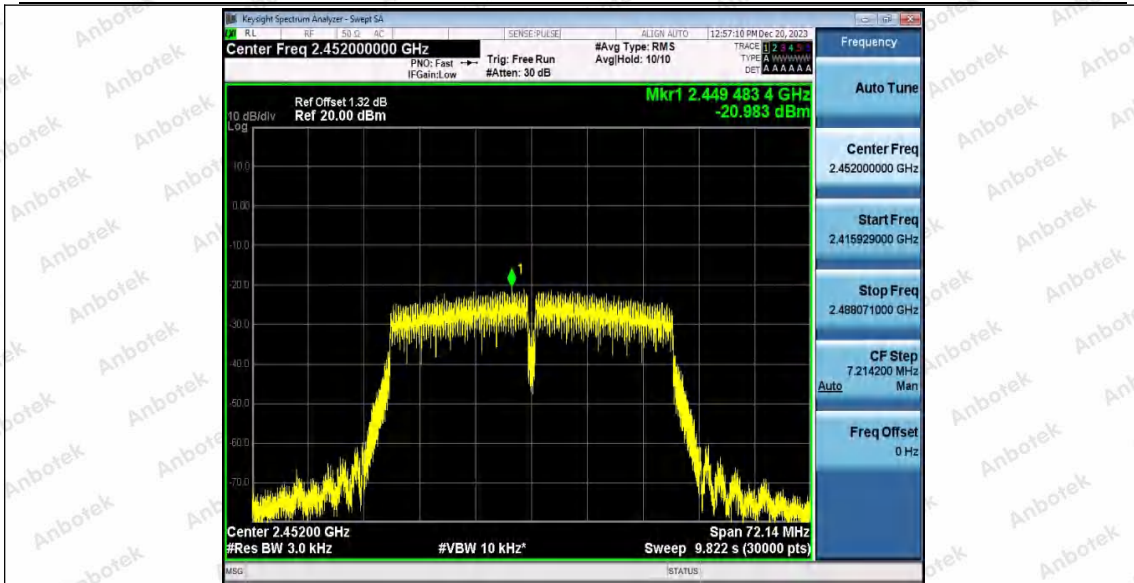
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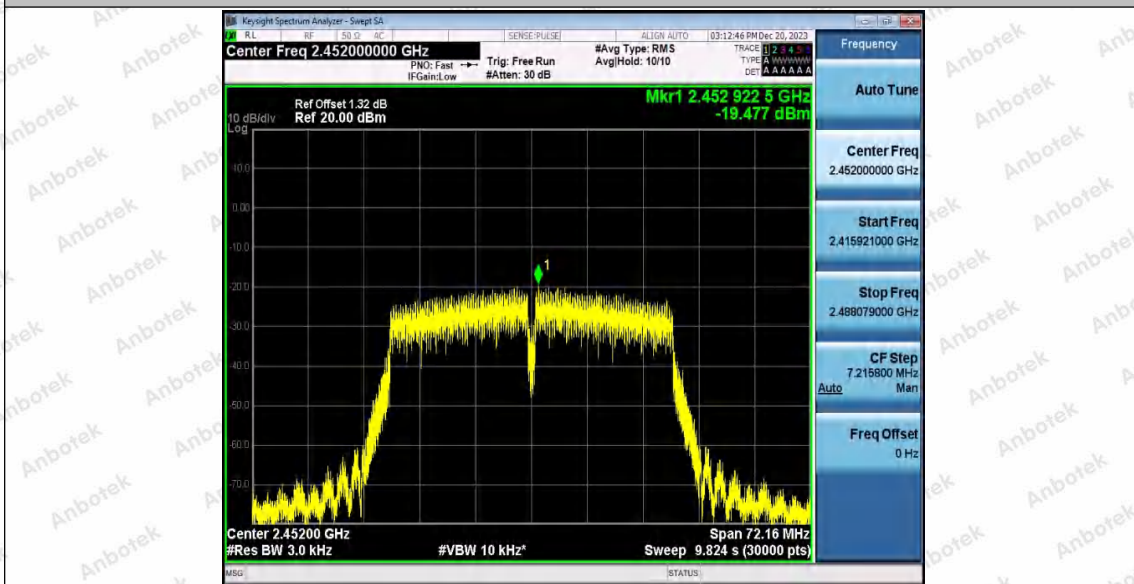
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	WiFi 0	Low	2412	3.77	-45.99	≤-26.23	PASS
	WiFi 1	Low	2412	3.81	-45.31	≤-26.2	PASS
	WiFi 0	High	2462	3.48	-54.84	≤-26.52	PASS
	WiFi 1	High	2462	3.88	-55.68	≤-26.12	PASS
11G	WiFi 0	Low	2412	1.90	-42.23	≤-28.1	PASS
	WiFi 1	Low	2412	3.42	-41.29	≤-26.58	PASS
	WiFi 0	High	2462	2.63	-51.88	≤-27.37	PASS
	WiFi 1	High	2462	2.19	-51.23	≤-27.81	PASS
11N20SISO	WiFi 0	Low	2412	2.67	-43.21	≤-27.33	PASS
	WiFi 1	Low	2412	2.99	-42.41	≤-27.01	PASS
	WiFi 0	High	2462	3.45	-52.12	≤-26.55	PASS
	WiFi 1	High	2462	2.36	-52.15	≤-27.64	PASS
11N40SISO	WiFi 0	Low	2422	0.26	-39.53	≤-29.74	PASS
	WiFi 1	Low	2422	0.43	-39.46	≤-29.57	PASS
	WiFi 0	High	2452	-0.07	-51.04	≤-30.07	PASS
	WiFi 1	High	2452	0.50	-50.6	≤-29.51	PASS

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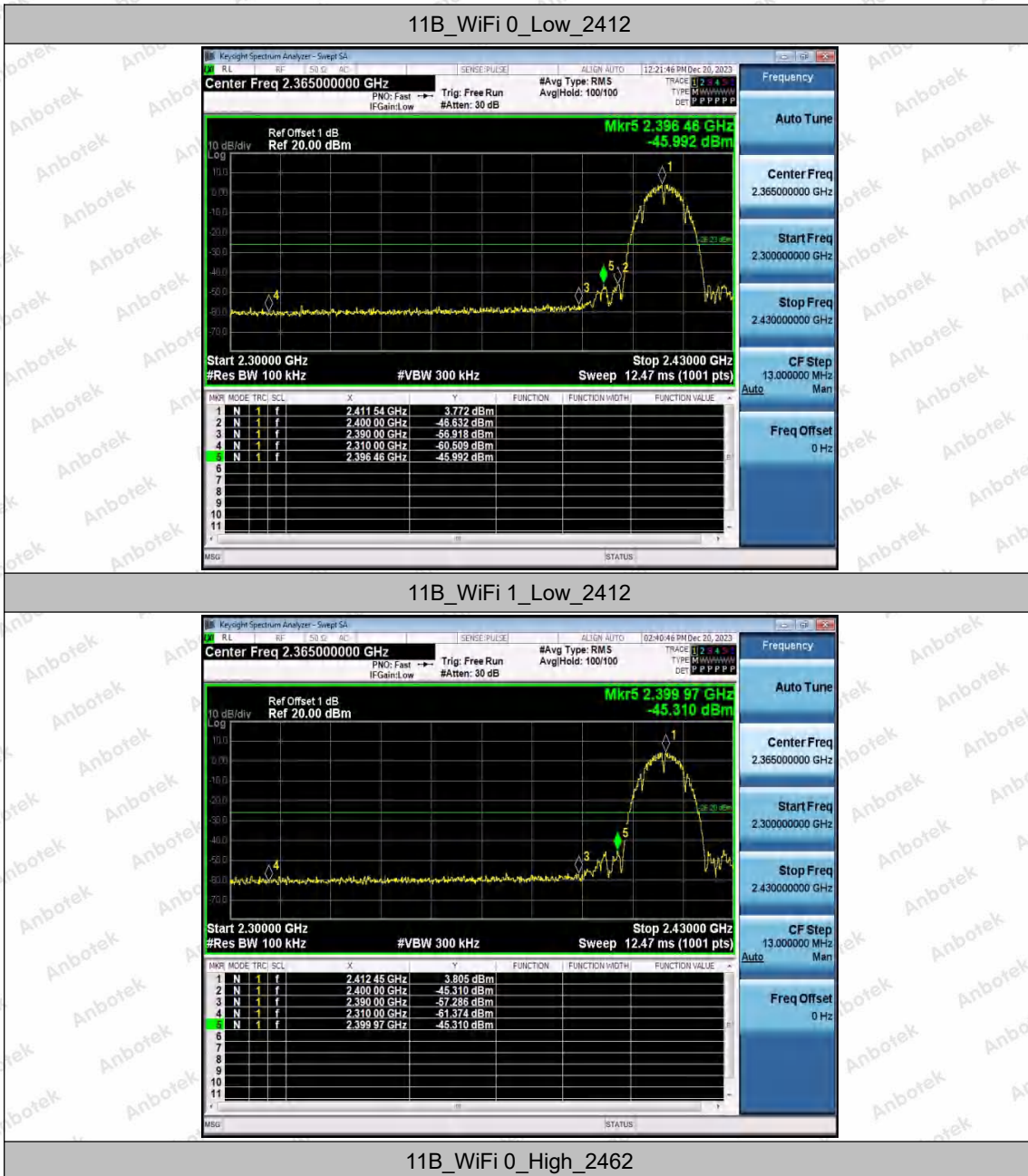
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Test Graphs



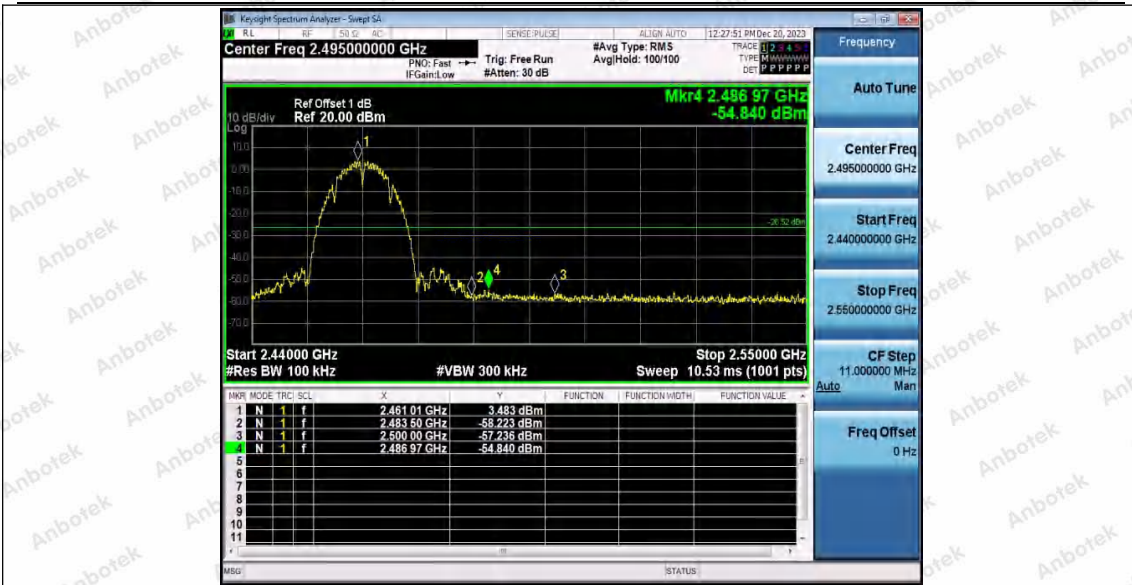
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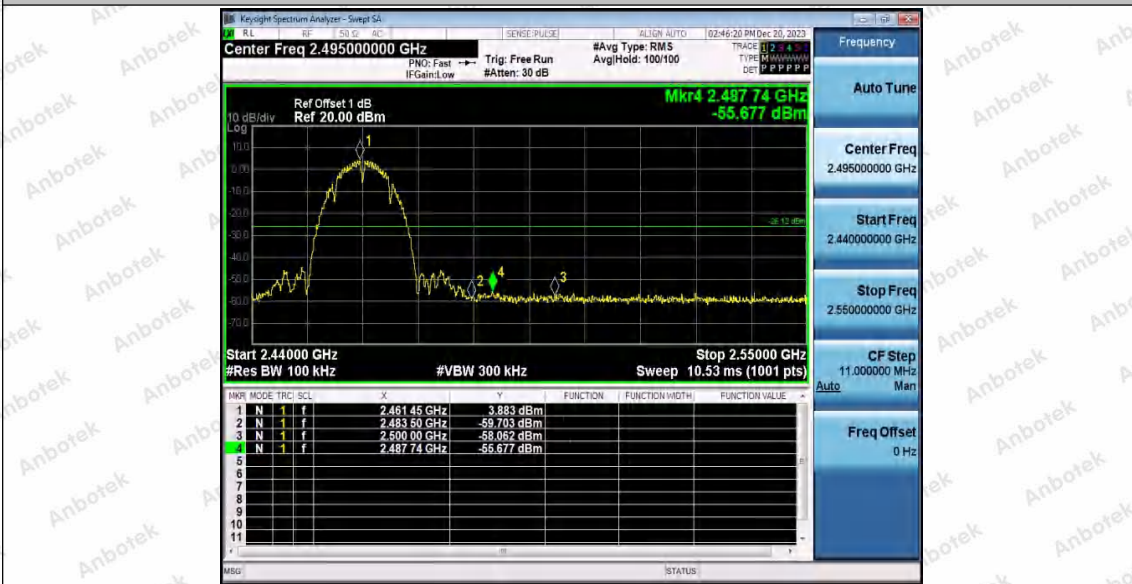
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11B_WiFi 1_High_2462



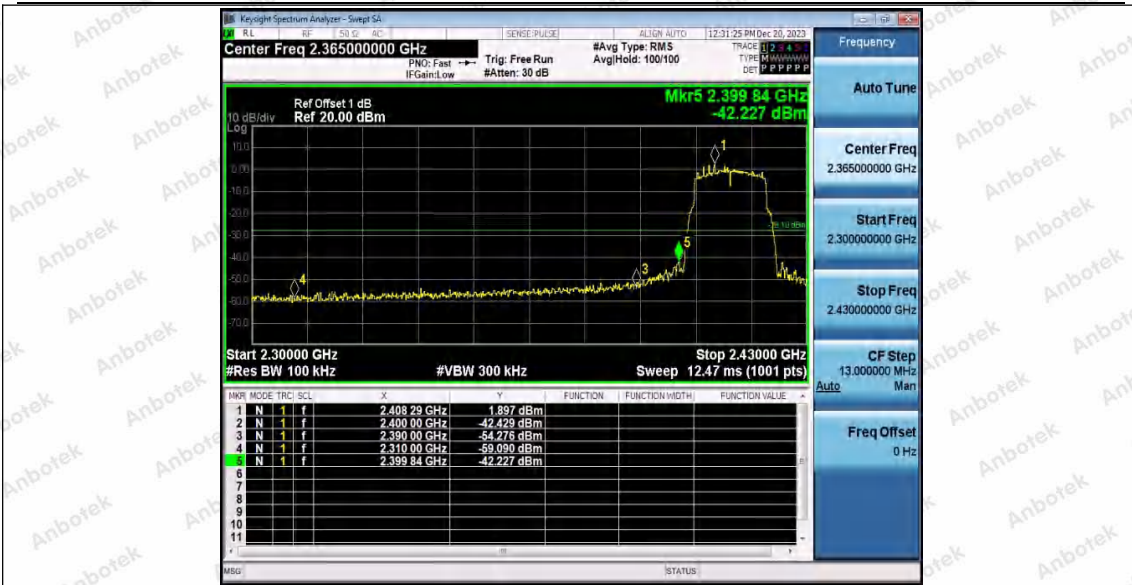
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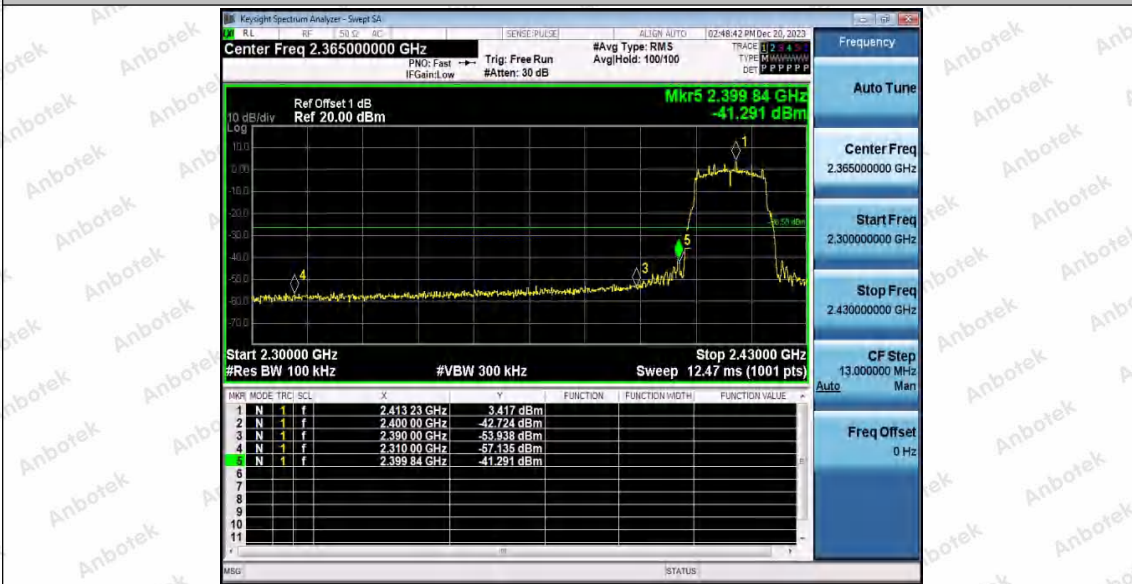
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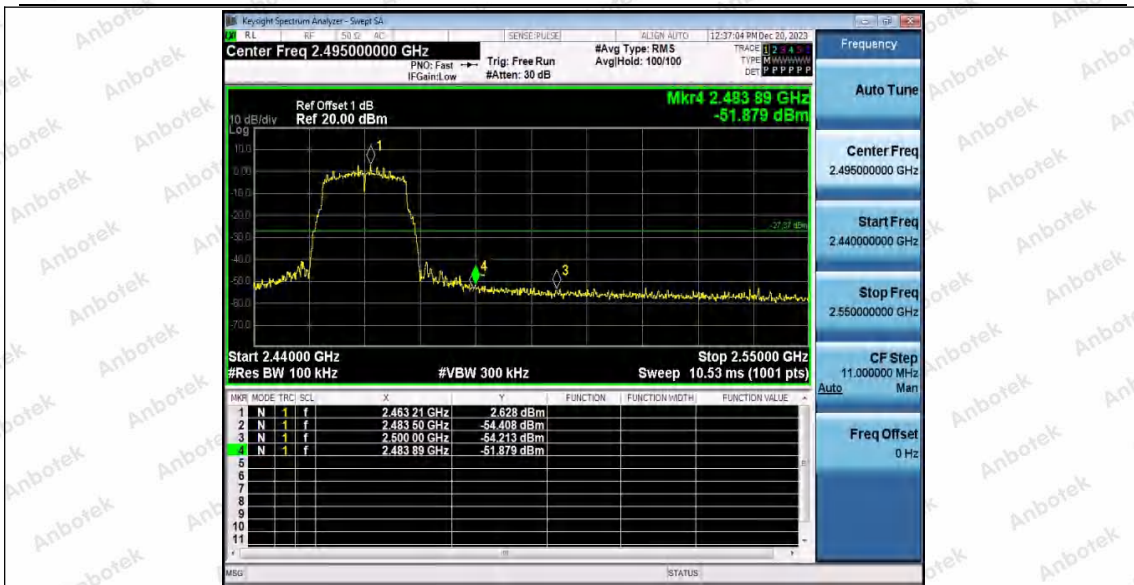
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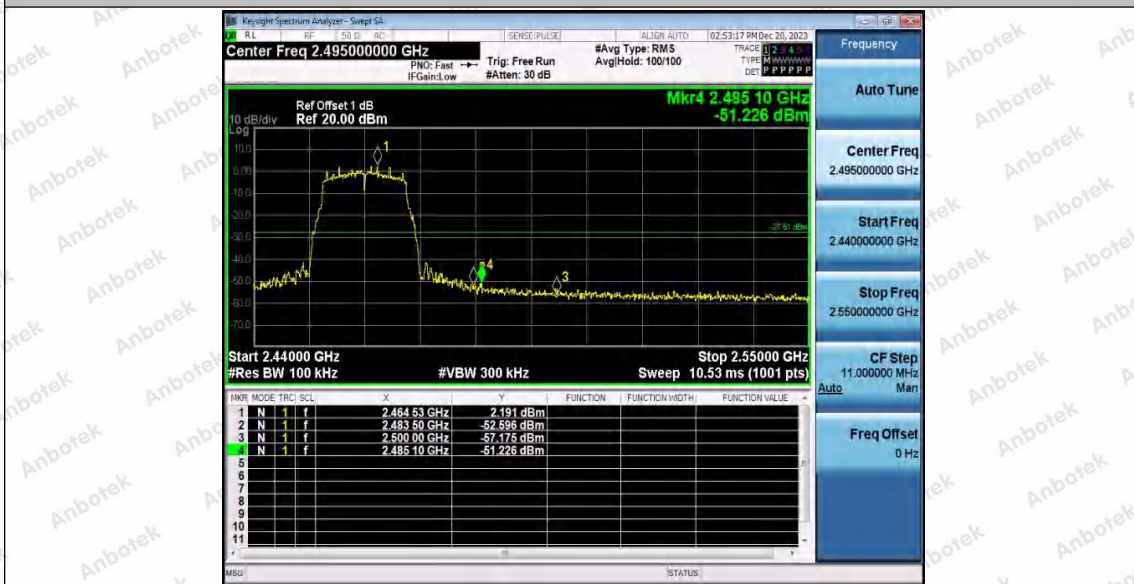
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