

Appendix Test Data

Report No:	18220WC30257602 (module RTL873IBU)	Test Sample NO:	1-2-2
Start Test Date:	2023.12.17	Finish Test Date:	2023.12.18
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: 6dB Occupy Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
802.11g	Ant1	2412	15.000	2404.520	2419.520	0.5	PASS
		2437	13.040	2430.480	2443.520	0.5	PASS
		2462	14.160	2455.400	2469.560	0.5	PASS
802.11n(HT20) SISO	Ant1	2412	13.800	2404.520	2418.320	0.5	PASS
		2437	15.640	2429.160	2444.800	0.5	PASS
		2462	15.040	2454.560	2469.600	0.5	PASS



Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

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802.11g_Ant1_2412



802.11g_Ant1_2437



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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

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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
802.11b	Ant1	2412	13.934	2405.0649	2418.9989	---	---
		2437	13.992	2430.0192	2444.0112	---	---
		2462	13.917	2455.0587	2468.9757	---	---
802.11g	Ant1	2412	16.479	2403.8309	2420.3099	---	---
		2437	16.492	2428.8133	2445.3053	---	---
		2462	16.478	2453.8075	2470.2855	---	---
802.11n(HT20) SISO	Ant1	2412	17.530	2403.2802	2420.8102	---	---
		2437	17.564	2428.2521	2445.8161	---	---
		2462	17.554	2453.2728	2470.8268	---	---



Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

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802.11g_Ant1_2412



802.11g_Ant1_2437



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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

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802.11n(HT20) SISO_Ant1_2462



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
802.11b	Ant1	2412	14.54	≤30.00
		2437	14.64	≤30.00
		2462	14.52	≤30.00
802.11g	Ant1	2412	14.16	≤30.00
		2437	14.33	≤30.00
		2462	13.61	≤30.00
802.11n(HT20) SISO	Ant1	2412	14.01	≤30.00
		2437	14.07	≤30.00
		2462	13.29	≤30.00

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

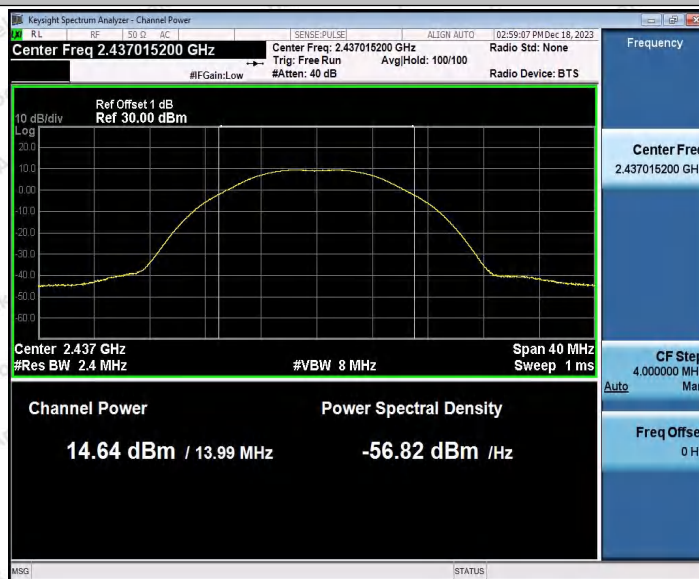


Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

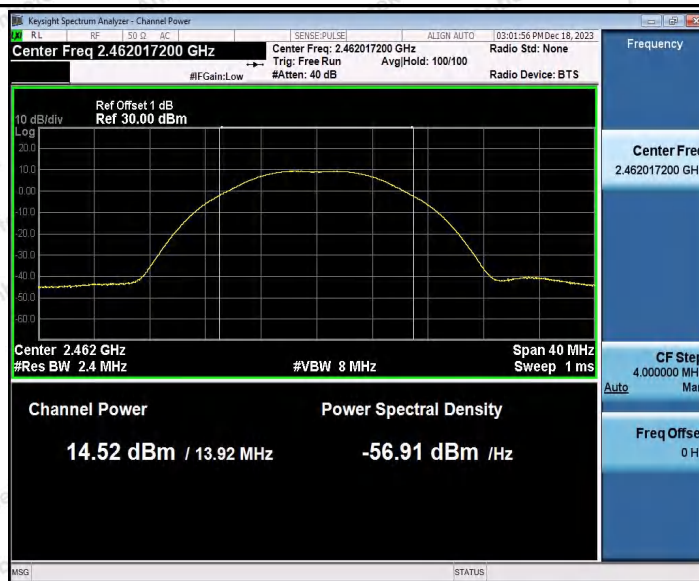
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802.11g_Ant1_2412



802.11g_Ant1_2437



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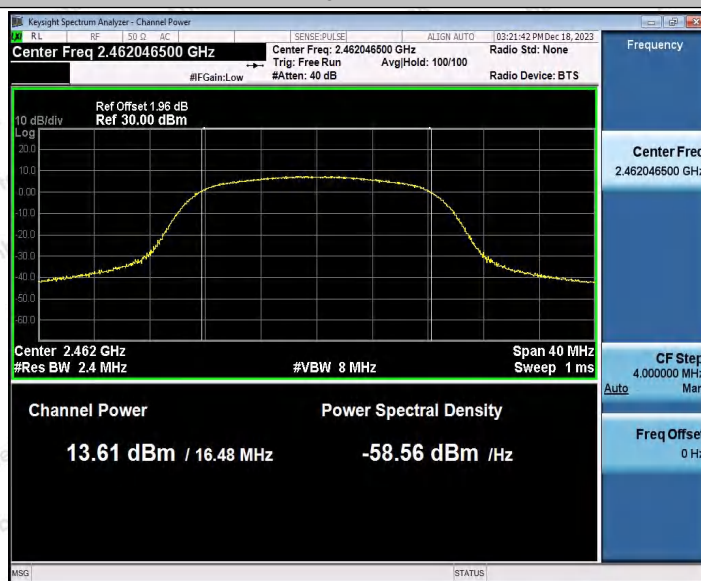
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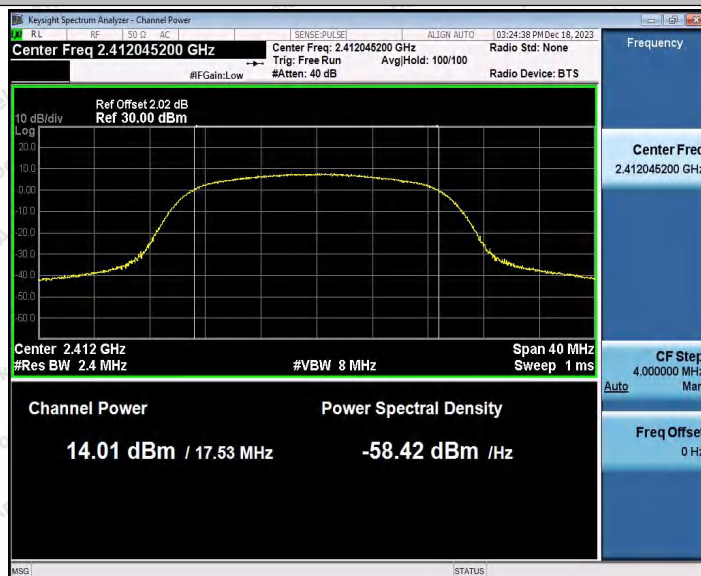
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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

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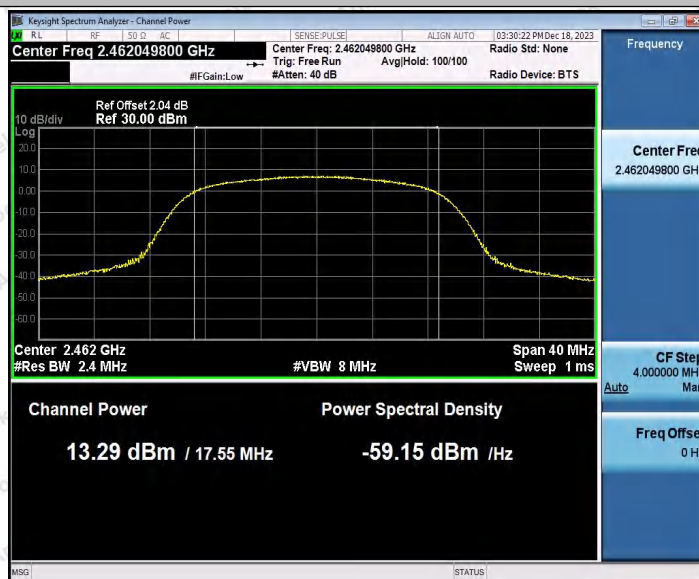


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802.11n(HT20) SISO_Ant1_2462



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Appendix D: power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
802.11b	Ant1	2412	-15.40	≤8.00	PASS
		2437	-14.92	≤8.00	PASS
		2462	-15.43	≤8.00	PASS
802.11g	Ant1	2412	-13.47	≤8.00	PASS
		2437	-14.74	≤8.00	PASS
		2462	-15.59	≤8.00	PASS
802.11n(HT20) SISO	Ant1	2412	-13.56	≤8.00	PASS
		2437	-14.77	≤8.00	PASS
		2462	-16.11	≤8.00	PASS



Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

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802.11g_Ant1_2412



802.11g_Ant1_2437



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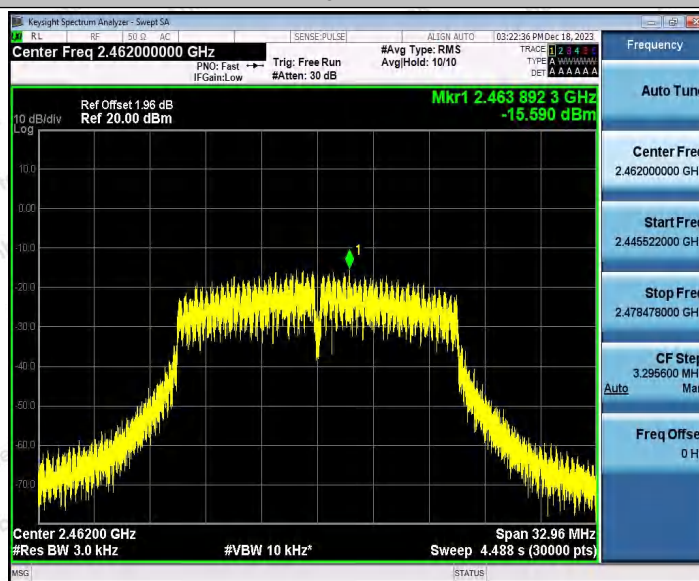
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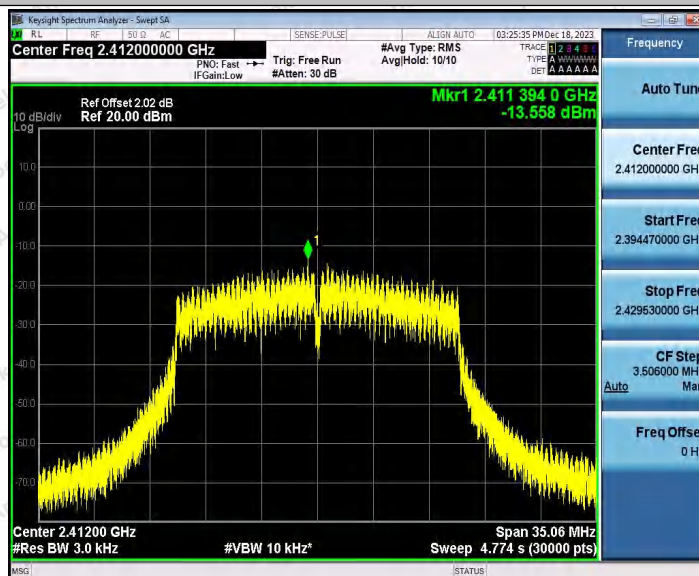
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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

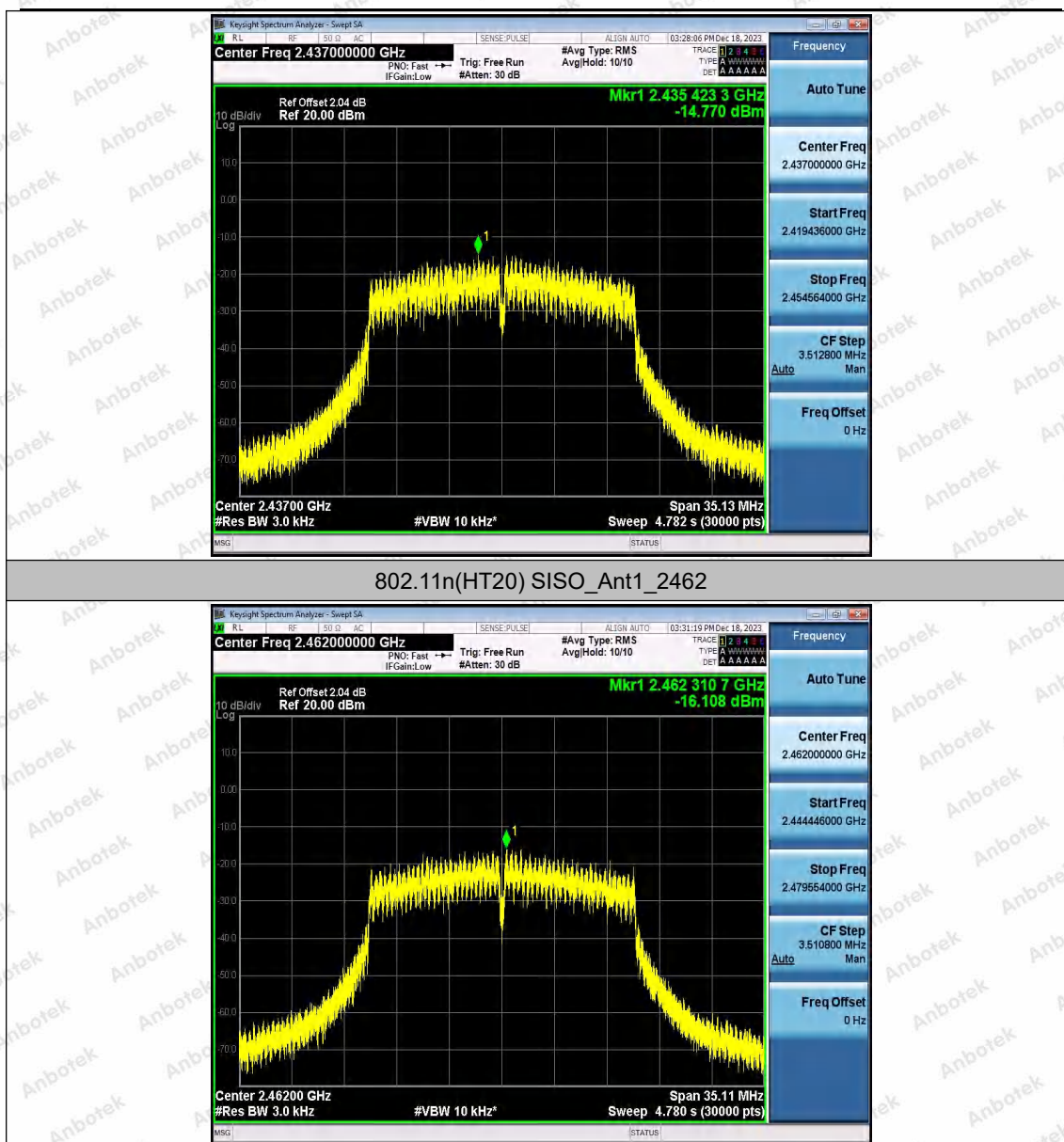
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Appendix E: Band edge measurements

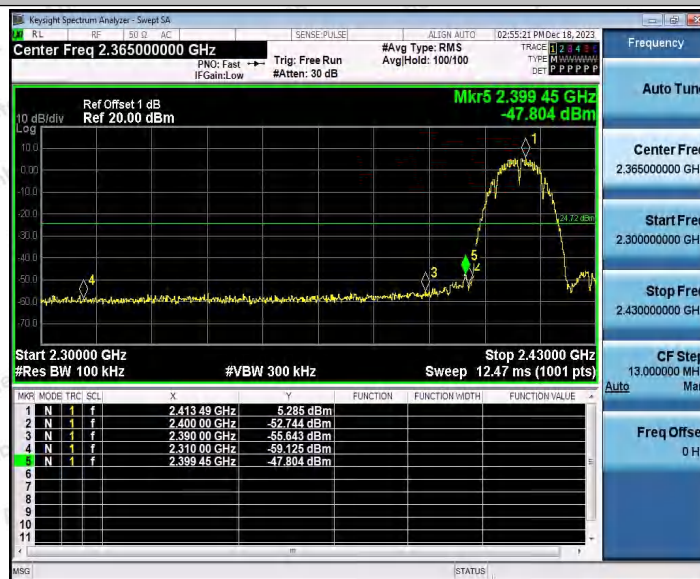
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	-5.29	-47.80	≤-24.72	PASS
		High	2462	-5.51	-54.98	≤-24.49	PASS
802.11g	Ant1	Low	2412	-1.83	-36.76	≤-28.18	PASS
		High	2462	-3.21	-51.69	≤-26.79	PASS
802.11n(HT20) SISO	Ant1	Low	2412	-3.08	-36.64	≤-26.93	PASS
		High	2462	-2.24	-50.90	≤-27.76	PASS

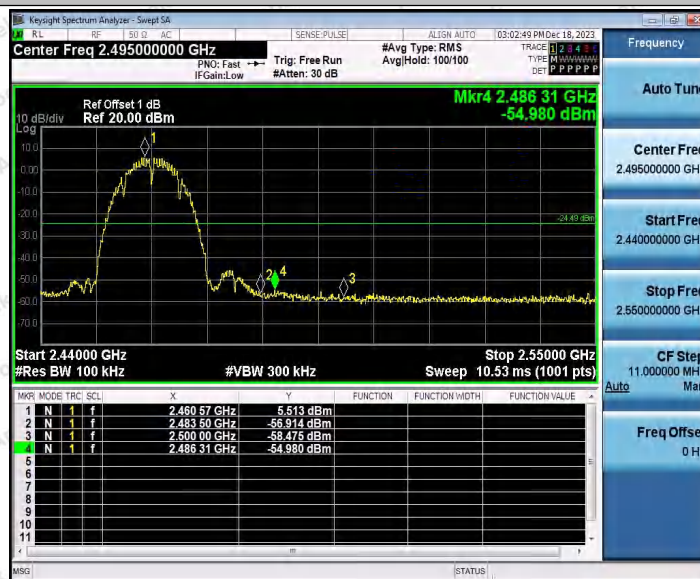


Test Graphs

802.11b_Ant1_Low_2412



802.11b_Ant1_High_2462



802.11g_Ant1_Low_2412

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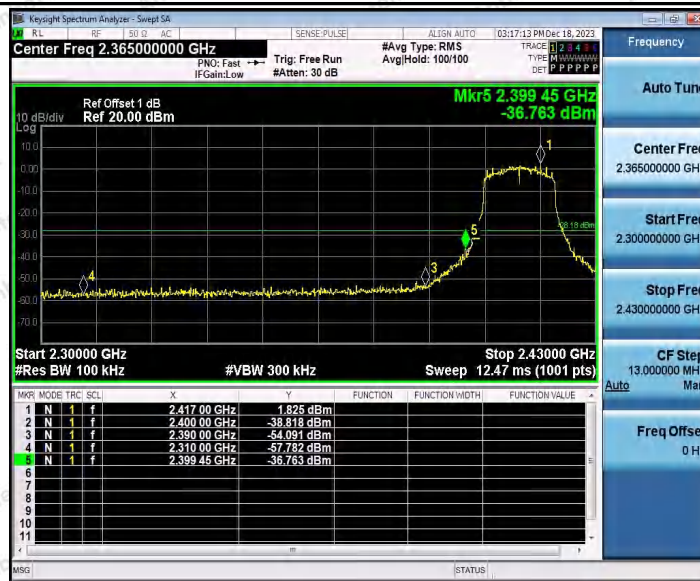


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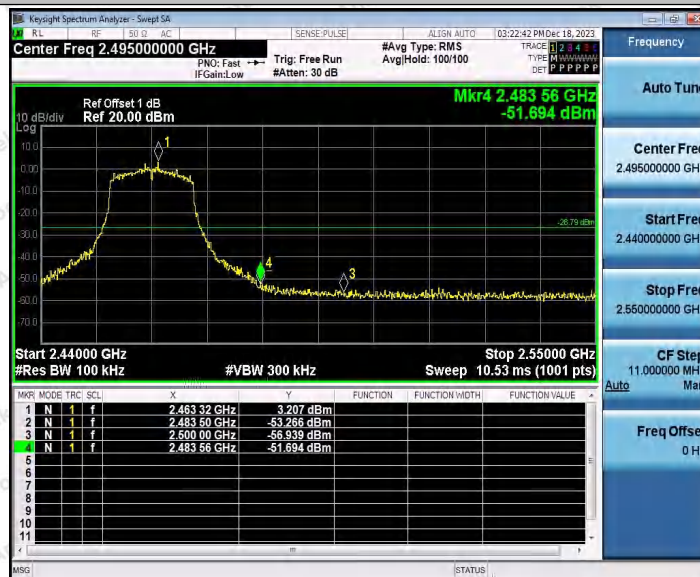
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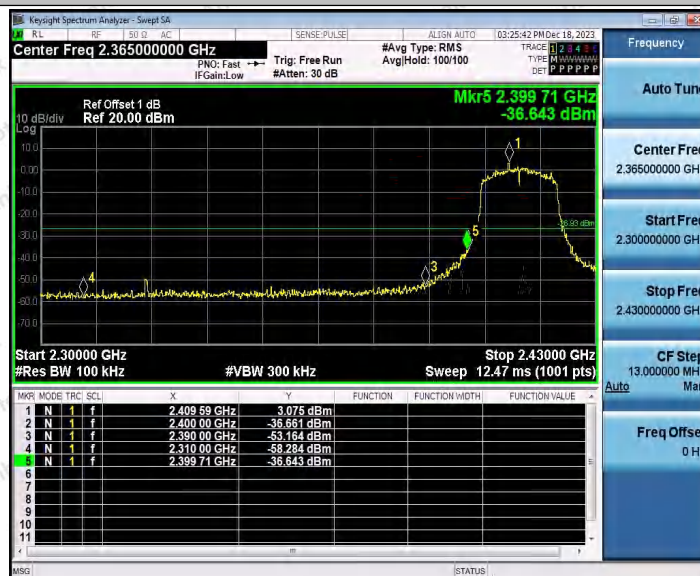




802.11g_Ant1_High_2462



802.11n(HT20) SISO_Ant1_Low_2412



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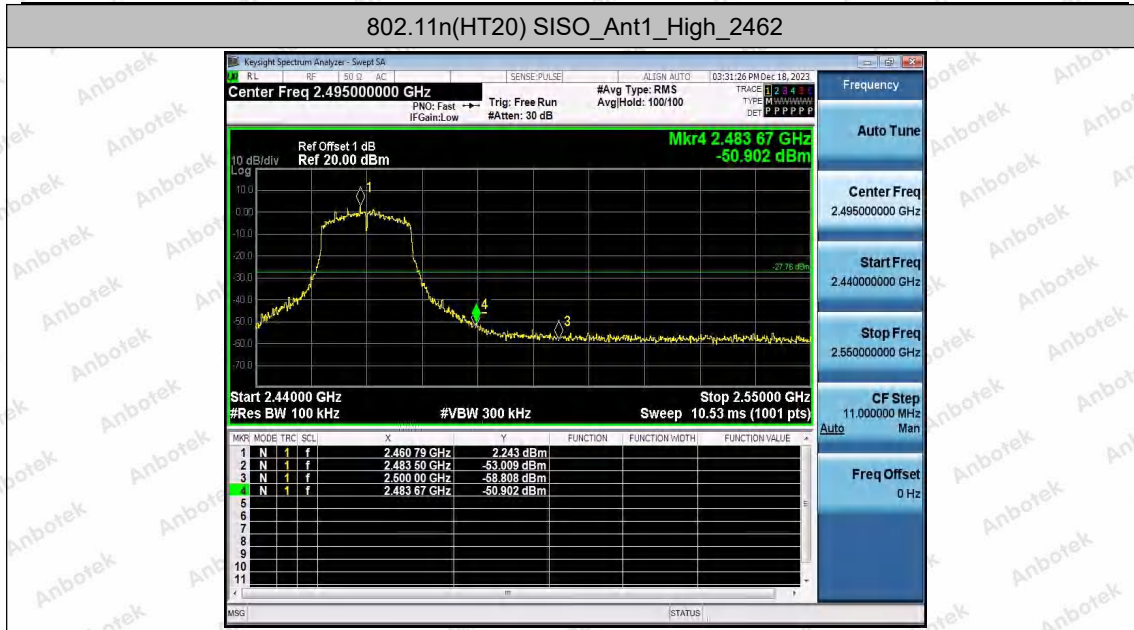


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	Reference	4.78	4.78	---	PASS
			30~1000	4.78	-62.77	≤-25.22	PASS
			1000~26500	4.78	-49.58	≤-25.22	PASS
		2437	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-63.43	≤-24.68	PASS
			1000~26500	5.32	-51.68	≤-24.68	PASS
		2462	Reference	4.24	4.24	---	PASS
			30~1000	4.24	-63.41	≤-25.76	PASS
			1000~26500	4.24	-47.96	≤-25.76	PASS
802.11g	Ant1	2412	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-61.87	≤-29.35	PASS
			1000~26500	0.65	-53.05	≤-29.35	PASS
		2437	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-61.21	≤-28.83	PASS
			1000~26500	1.17	-52.47	≤-28.83	PASS
		2462	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-62.11	≤-26.71	PASS
			1000~26500	3.29	-51.70	≤-26.71	PASS
802.11n(HT20) SISO	Ant1	2412	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-61.97	≤-28.09	PASS
			1000~26500	1.91	-52.94	≤-28.09	PASS
		2437	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-60.94	≤-27.88	PASS
			1000~26500	2.12	-52.74	≤-27.88	PASS
		2462	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-61.21	≤-30.16	PASS
			1000~26500	-0.16	-51.64	≤-30.16	PASS



Test Graphs

802.11b_Ant1_2412_0~Reference



802.11b_Ant1_2412_30~1000



802.11b_Ant1_2412_1000~26500

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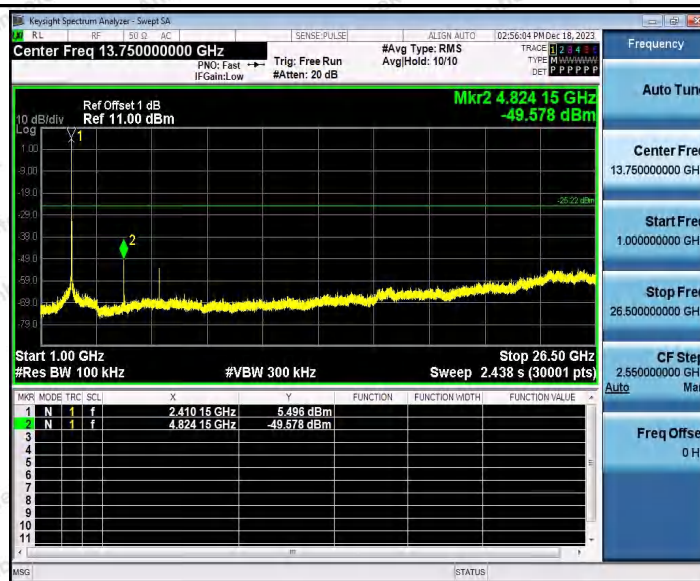


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802.11b_Ant1_2437_0~Reference



802.11b_Ant1_2437_30~1000



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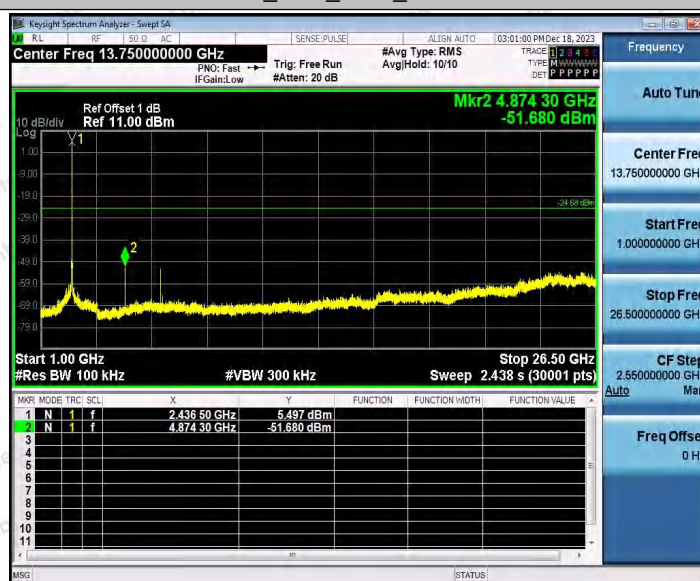
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802.11b_Ant1_2437_1000~26500



802.11b_Ant1_2462_0~Reference



802.11b_Ant1_2462_30~1000

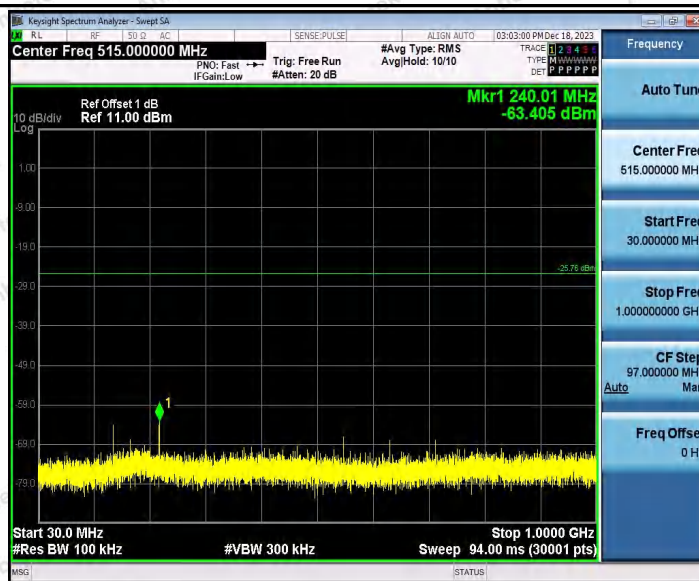
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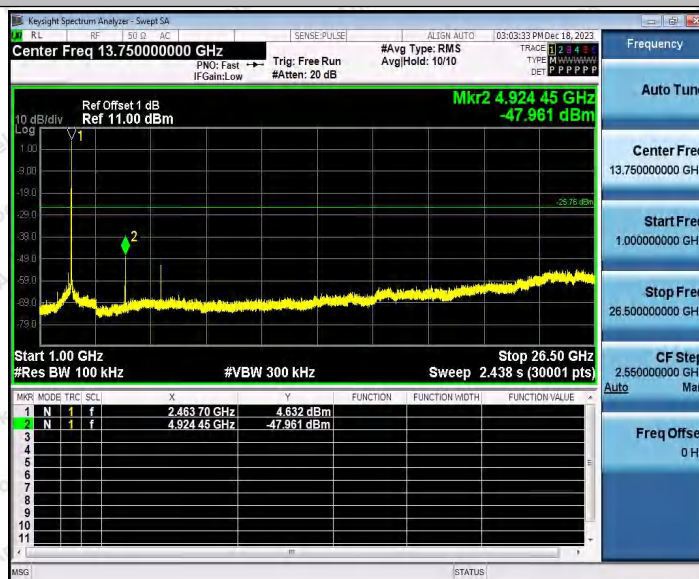


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802.11b_Ant1_2462_1000~26500



802.11g_Ant1_2412_0~Reference



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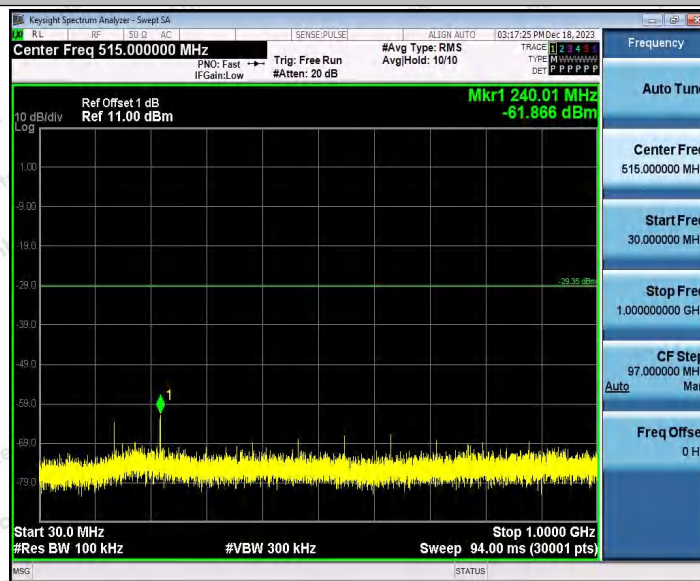
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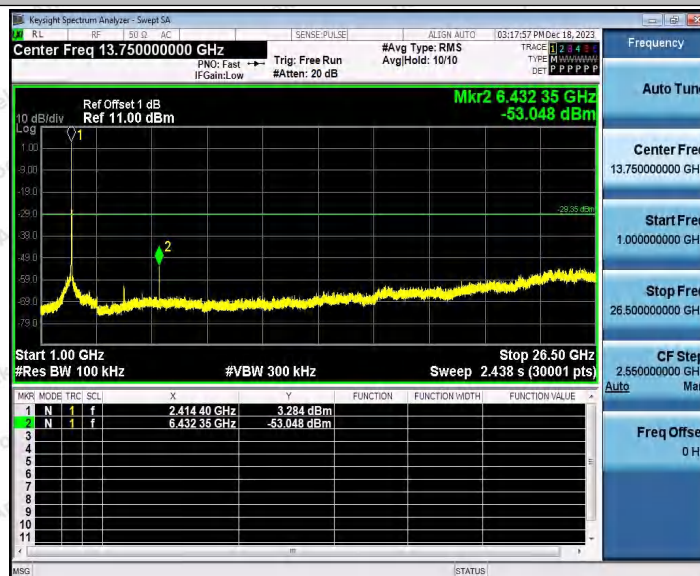
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802.11g_Ant1_2412_30~1000



802.11g_Ant1_2412_1000~26500



802.11g_Ant1_2437_0~Reference

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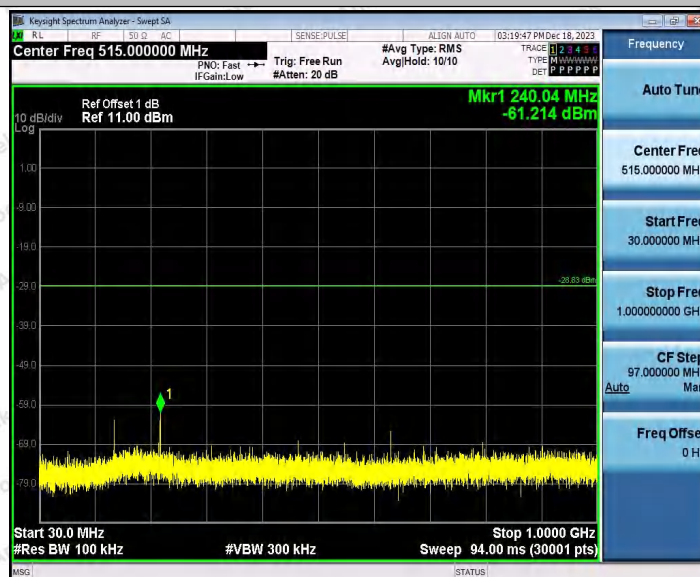


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802.11g_Ant1_2437_30~1000



802.11g_Ant1_2437_1000~26500



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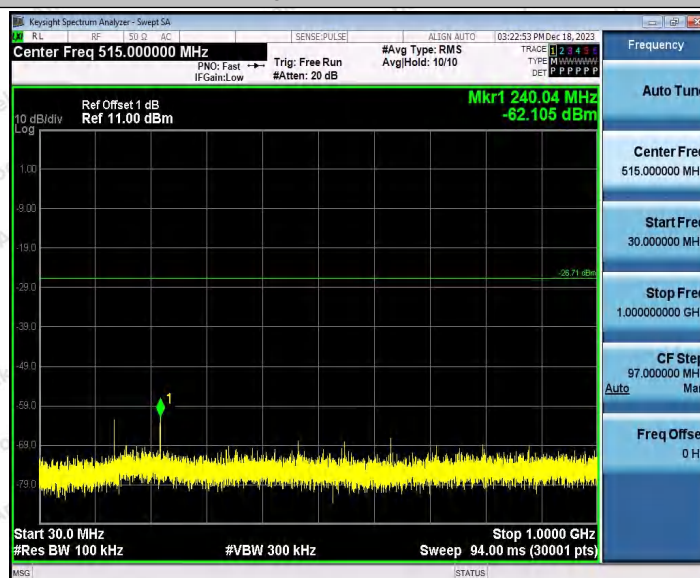
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802.11g_Ant1_2462_0~Reference



802.11g_Ant1_2462_30~1000



802.11g_Ant1_2462_1000~26500

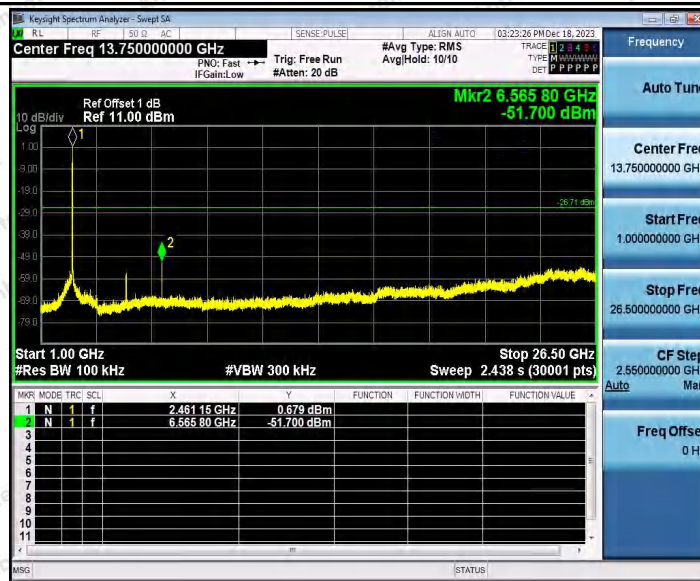
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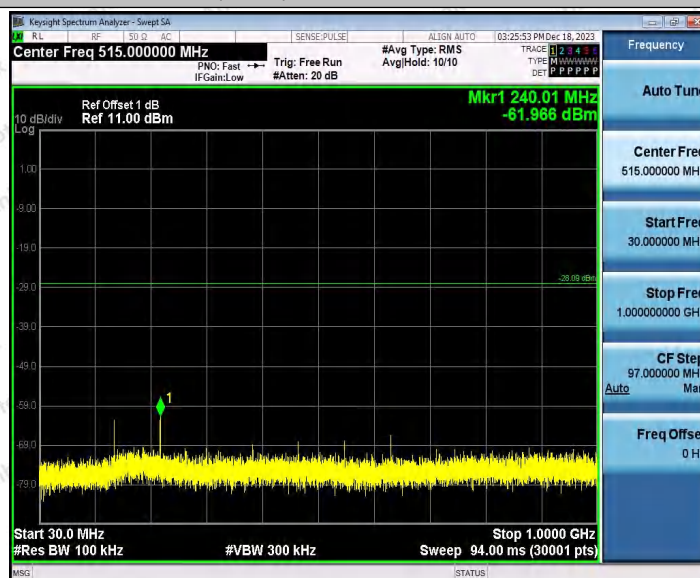




802.11n(HT20) SISO_Ant1_2412_0~Reference



802.11n(HT20) SISO_Ant1_2412_30~1000



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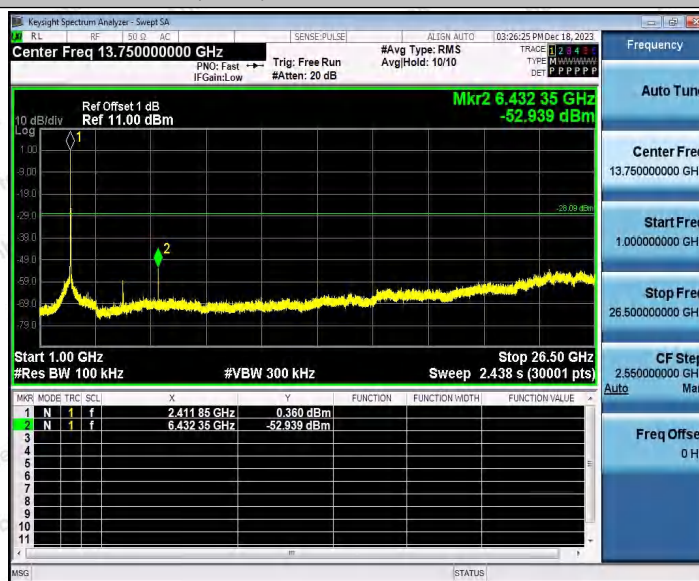
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802.11n(HT20) SISO_Ant1_2412_1000~26500



802.11n(HT20) SISO_Ant1_2437_0~Reference



802.11n(HT20) SISO_Ant1_2437_30~1000

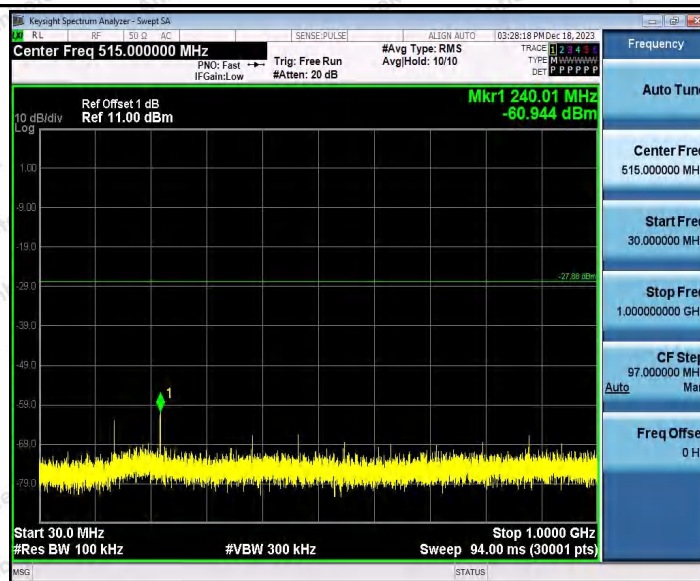
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802.11n(HT20) SISO_Ant1_2437_1000~26500



802.11n(HT20) SISO_Ant1_2462_0~Reference



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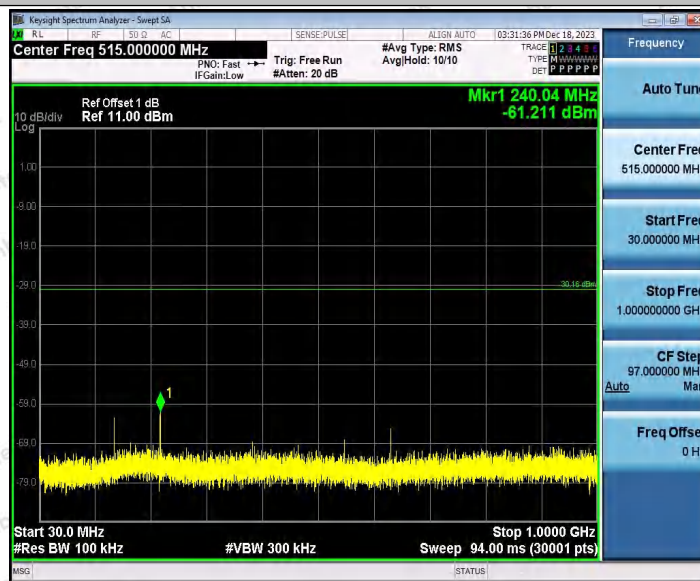
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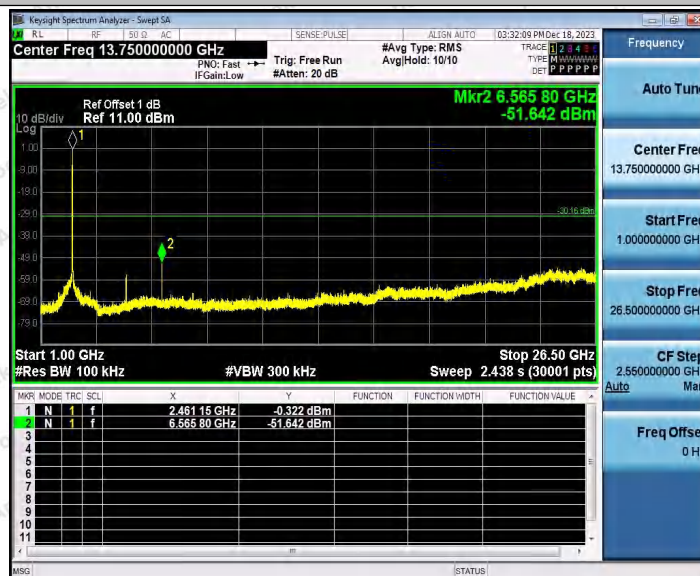
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802.11n(HT20) SISO_Ant1_2462_30~1000



802.11n(HT20) SISO_Ant1_2462_1000~26500



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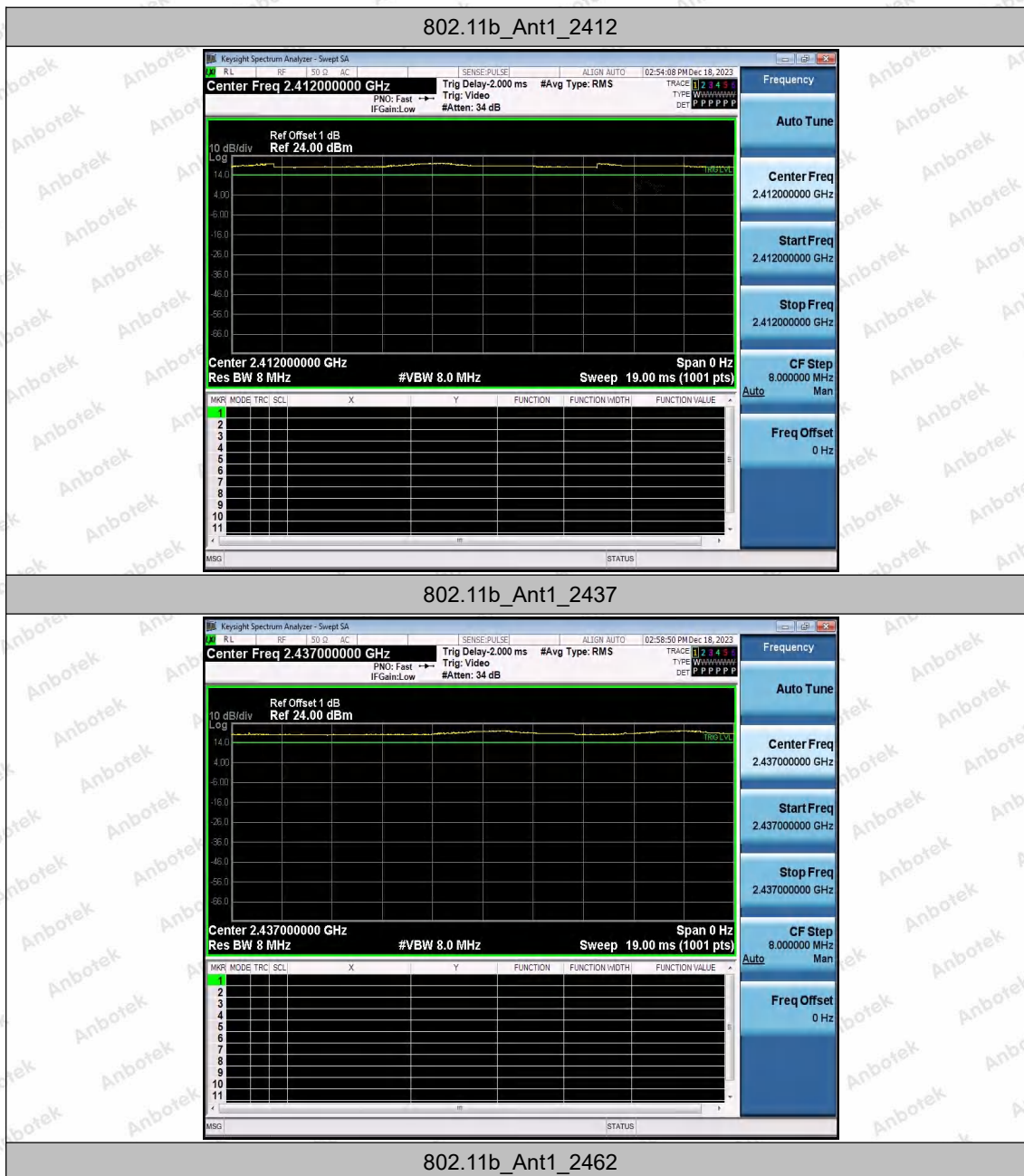
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
802.11b	Ant1	2412	19.00	19.00	100.00	0.00
		2437	19.00	19.00	100.00	0.00
		2462	19.00	19.00	100.00	0.00
802.11g	Ant1	2412	2.02	2.53	79.84	0.98
		2437	2.02	2.53	79.84	0.98
		2462	2.03	2.53	80.24	0.96
802.11n(HT20) SISO	Ant1	2412	1.89	2.39	79.08	1.02
		2437	1.88	2.39	78.66	1.04
		2462	1.88	2.39	78.66	1.04



Test Graphs



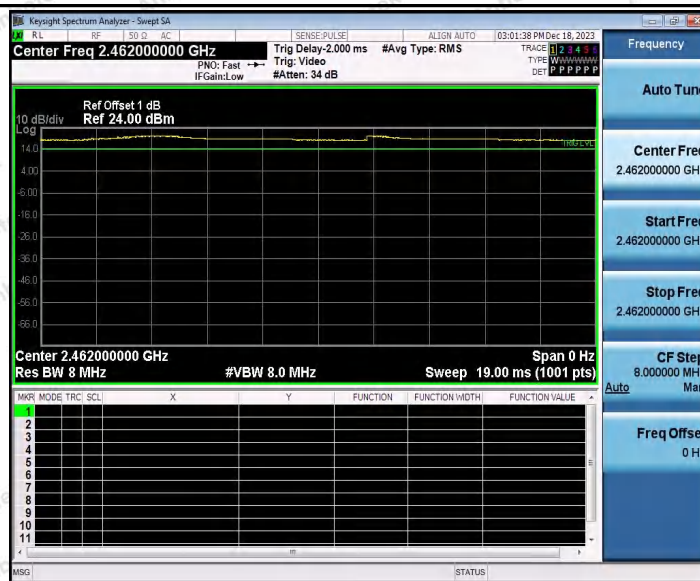
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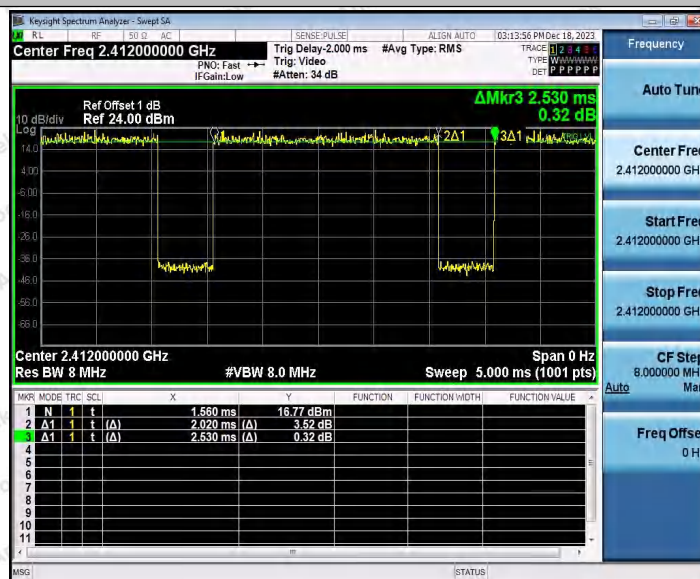


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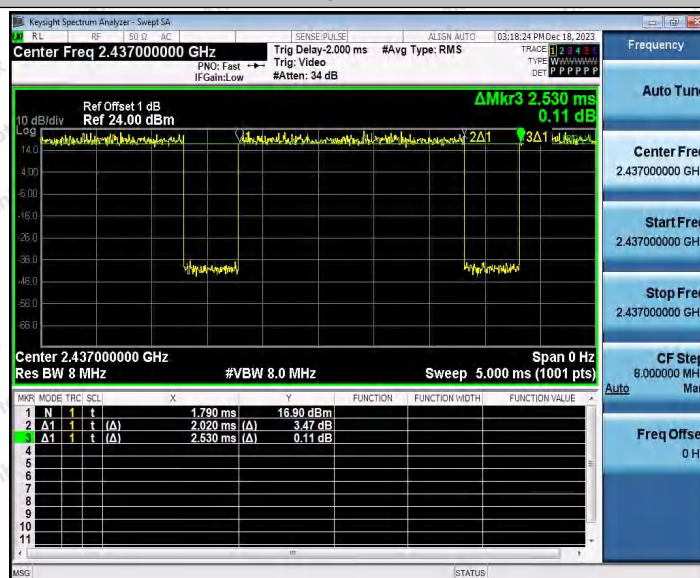




802.11g_Ant1_2412



802.11g_Ant1_2437



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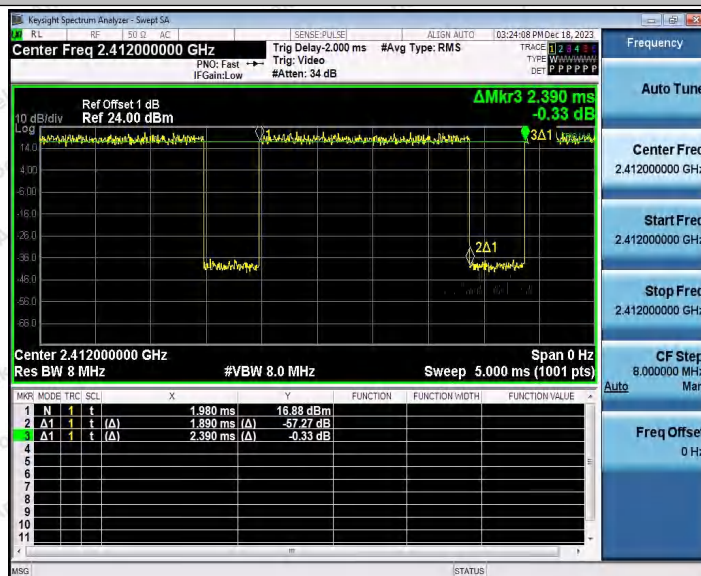
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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

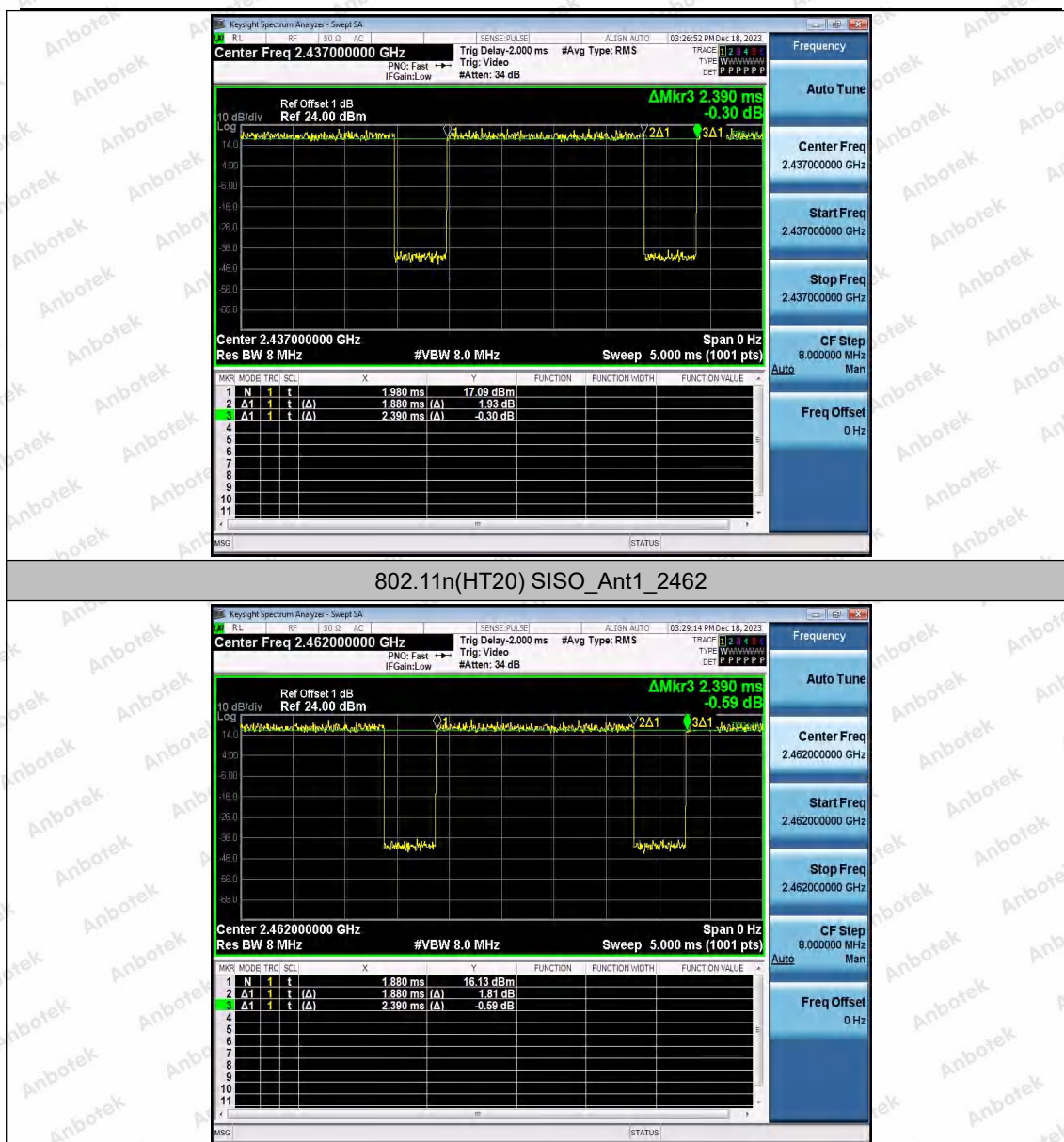
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