

Appendix A: Test Results of 2.4GHz Wi-Fi

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Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.08	≤8.00	PASS
		2437	-6.36	≤8.00	PASS
		2462	-7.01	≤8.00	PASS
11G	Ant1	2412	-10.96	≤8.00	PASS
		2437	-10.89	≤8.00	PASS
		2462	-11.43	≤8.00	PASS
11N20SISO	Ant1	2412	-11.33	≤8.00	PASS
		2437	-10.64	≤8.00	PASS
		2462	-11.43	≤8.00	PASS
11N40SISO	Ant1	2422	-14.48	≤8.00	PASS
		2437	-14.17	≤8.00	PASS
		2452	-14.50	≤8.00	PASS

11B_Ant1_2412



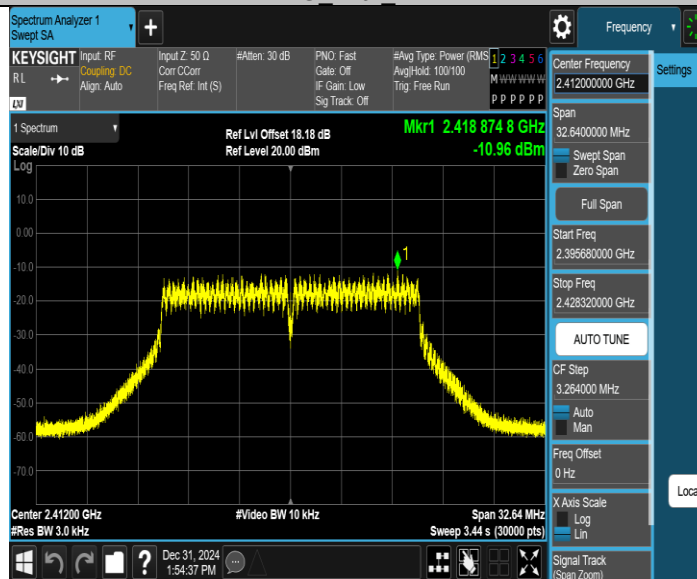
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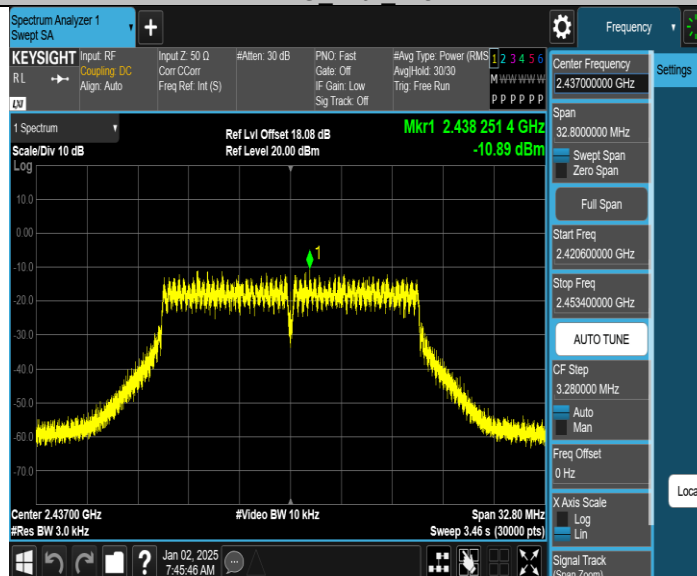
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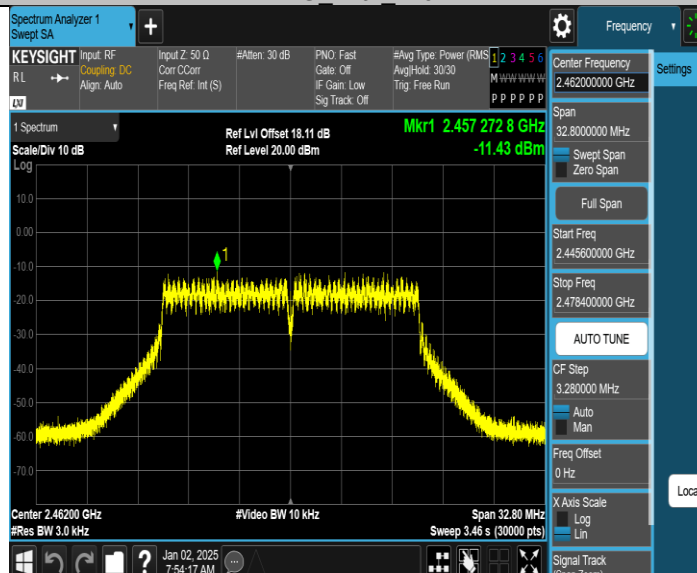
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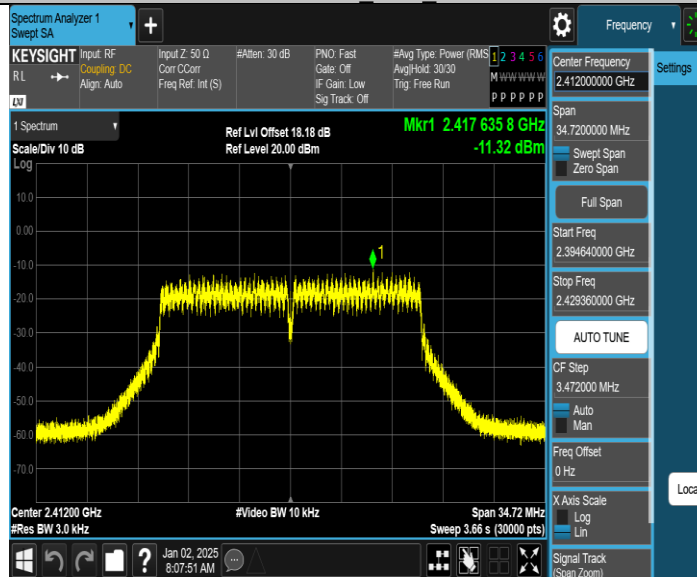
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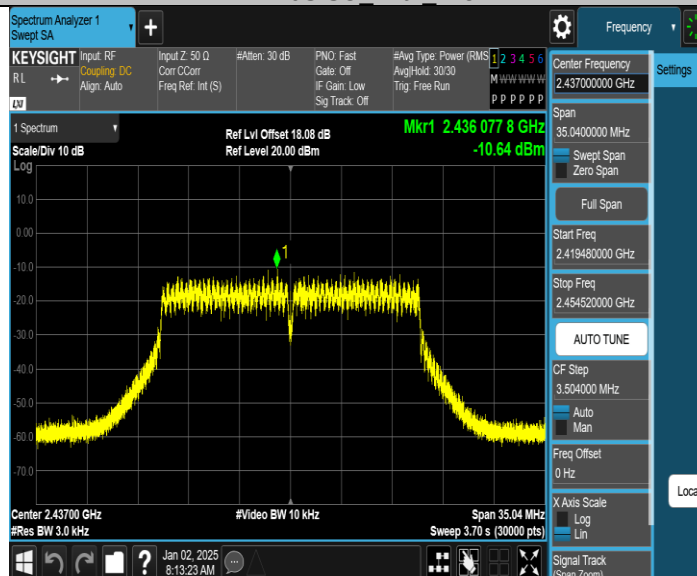
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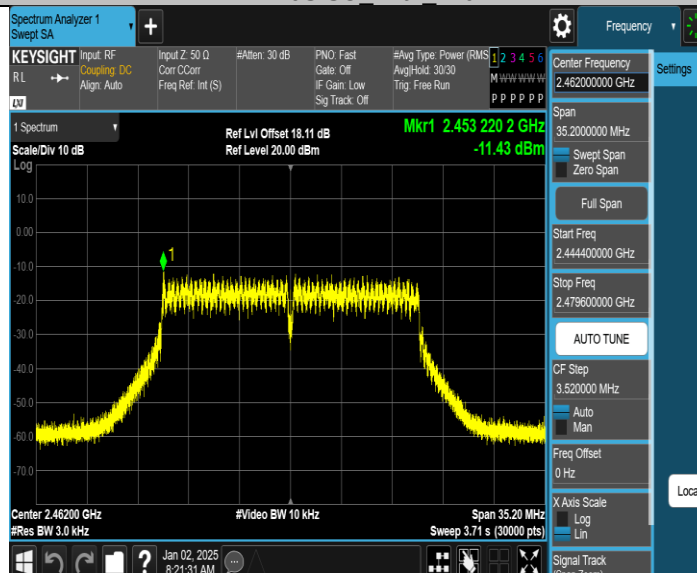
11N20SISO Ant1 2412



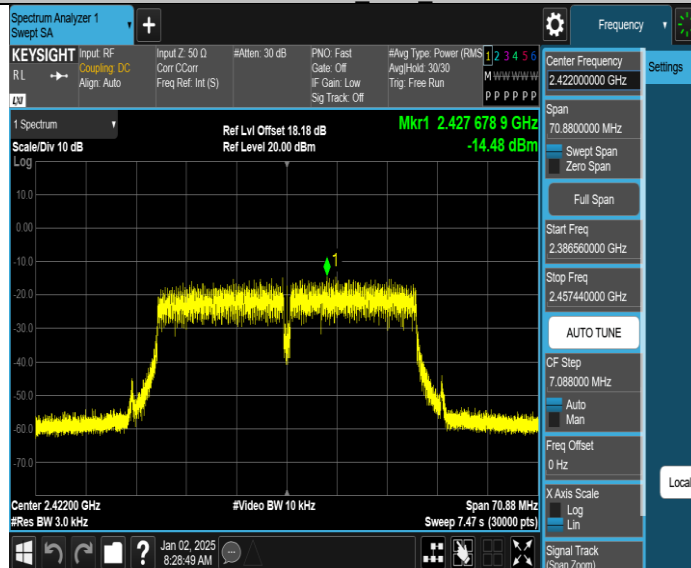
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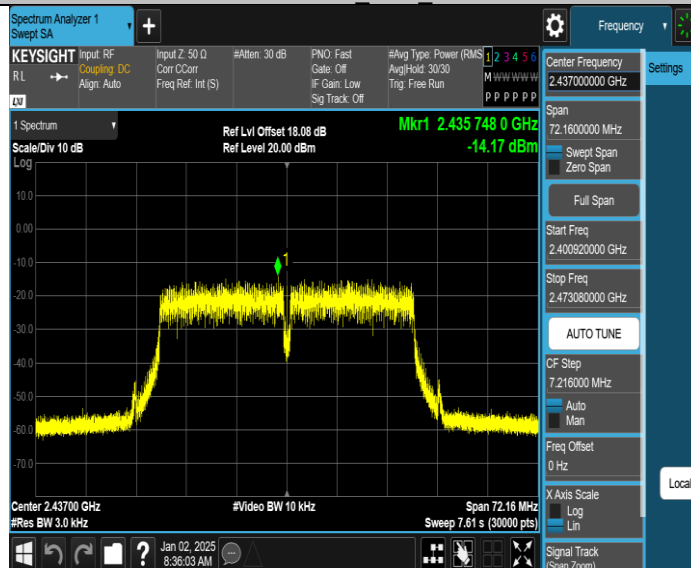
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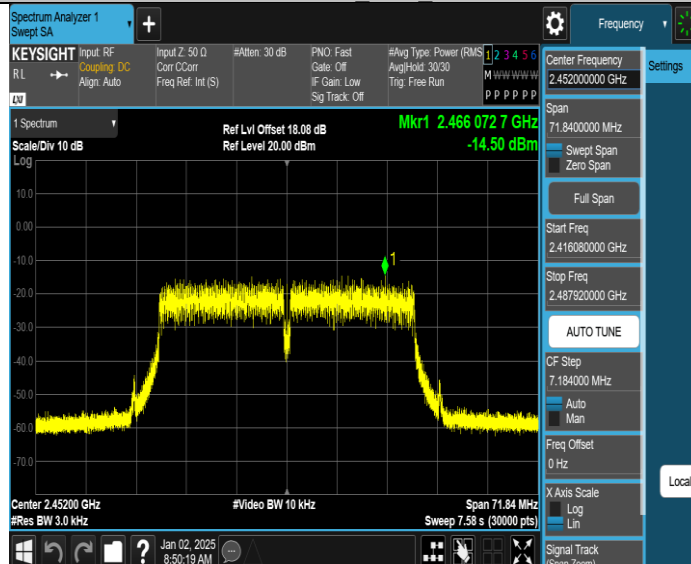
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.480	2408.480	2415.960	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	7.560	2457.480	2465.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.440	2420.800	0.5	PASS
		2437	17.520	2428.240	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	36.080	2419.080	2455.160	0.5	PASS
		2452	35.920	2433.840	2469.760	0.5	PASS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO Ant1 2412



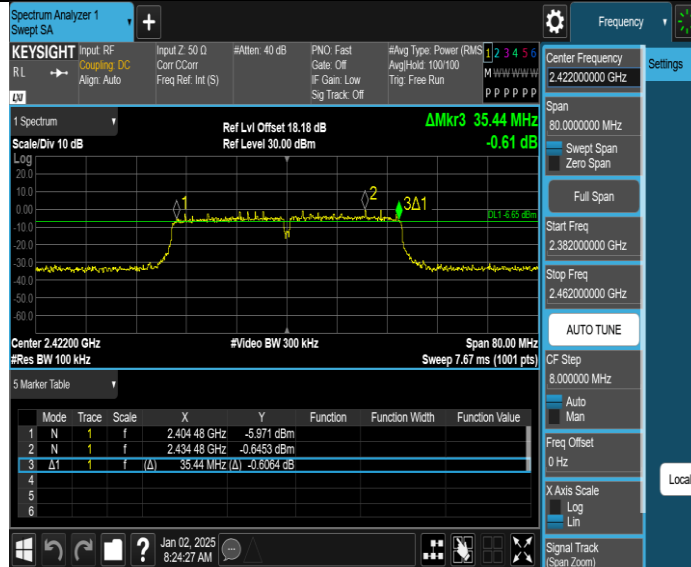
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11N20SISO Ant1 2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437



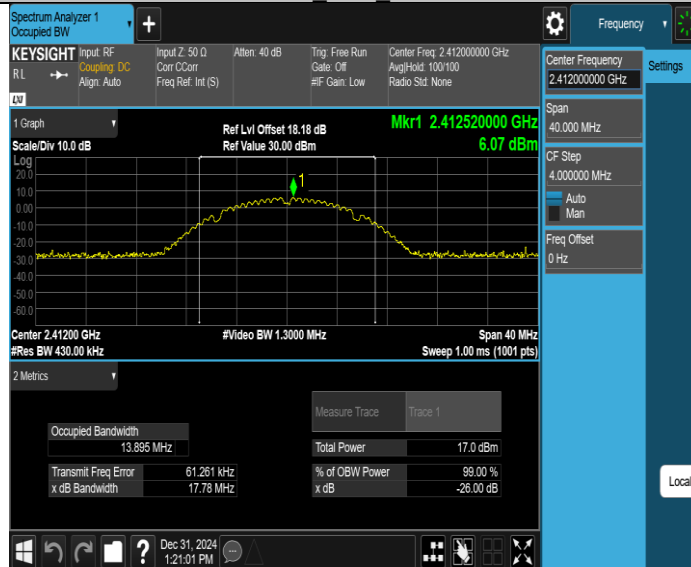
11N40SISO Ant1 2452



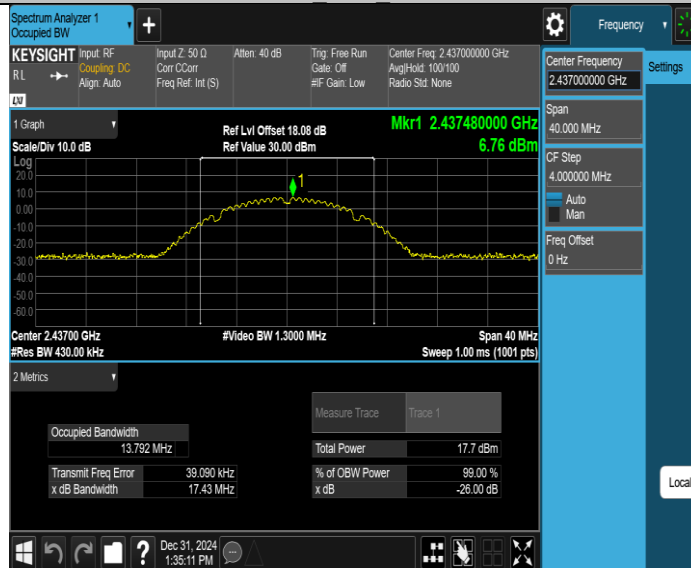
Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.895	2405.1138	2419.0088	---	PASS
		2437	13.792	2430.1431	2443.9351	---	PASS
		2462	13.782	2455.0869	2468.8689	---	PASS
11G	Ant1	2412	17.050	2403.5181	2420.5681	---	PASS
		2437	17.097	2428.4239	2445.5209	---	PASS
		2462	17.148	2453.4186	2470.5666	---	PASS
11N20SISO	Ant1	2412	18.101	2403.0183	2421.1193	---	PASS
		2437	18.012	2427.9854	2445.9974	---	PASS
		2462	18.086	2452.9441	2471.0301	---	PASS
11N40SISO	Ant1	2422	36.429	2403.8727	2440.3017	---	PASS
		2437	36.505	2418.8296	2455.3346	---	PASS
		2452	36.422	2433.7864	2470.2084	---	PASS

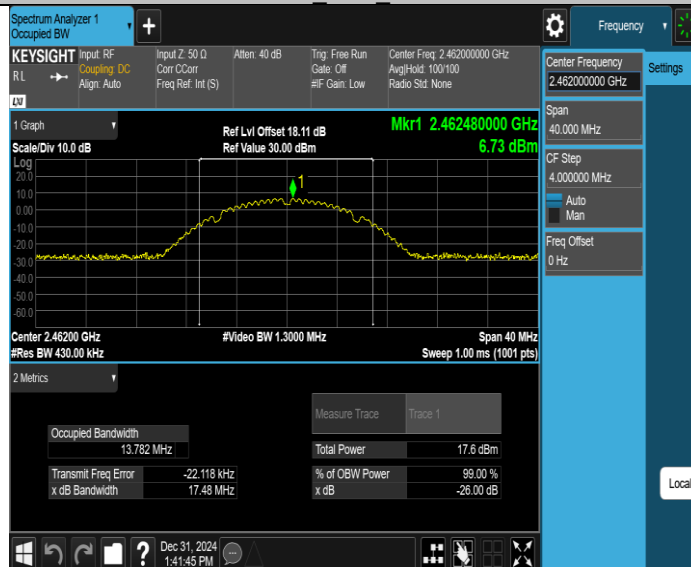
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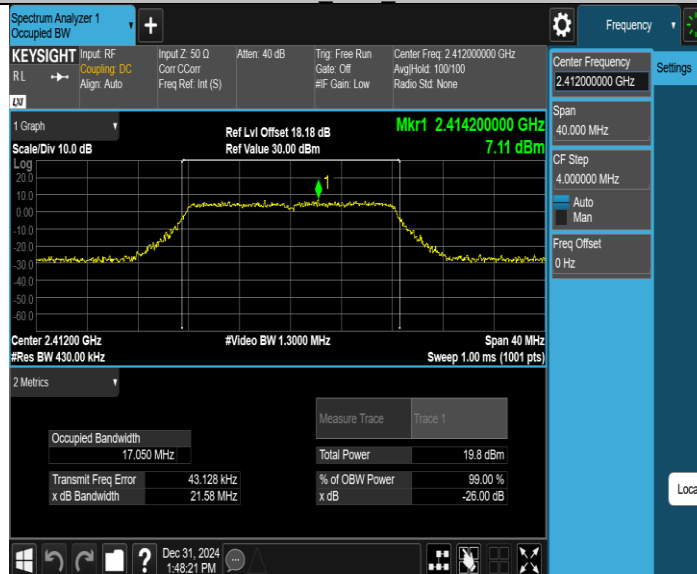
11B_Ant1_2437



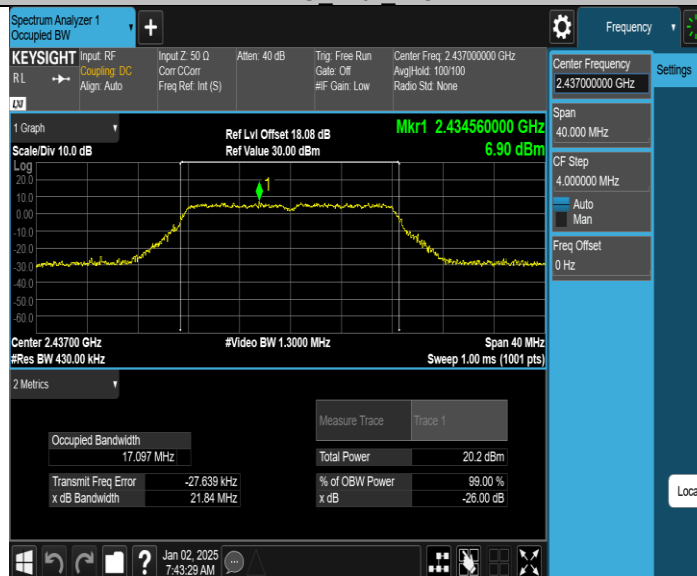
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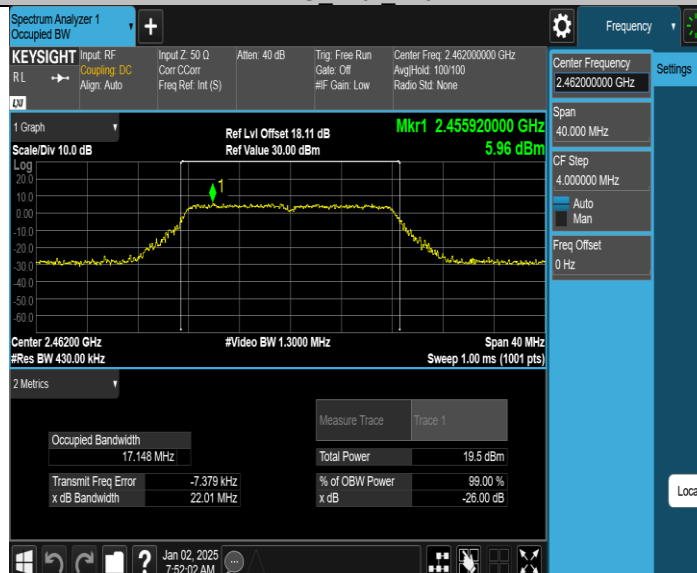
11G_Ant1_2412



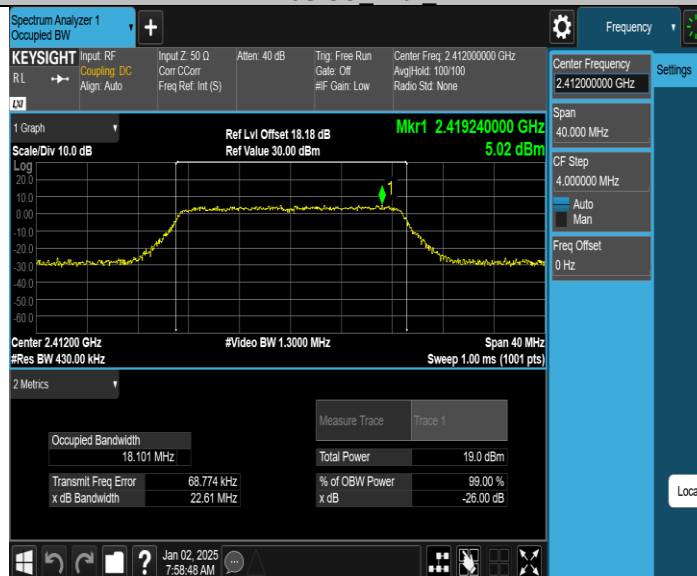
11G_Ant1_2437



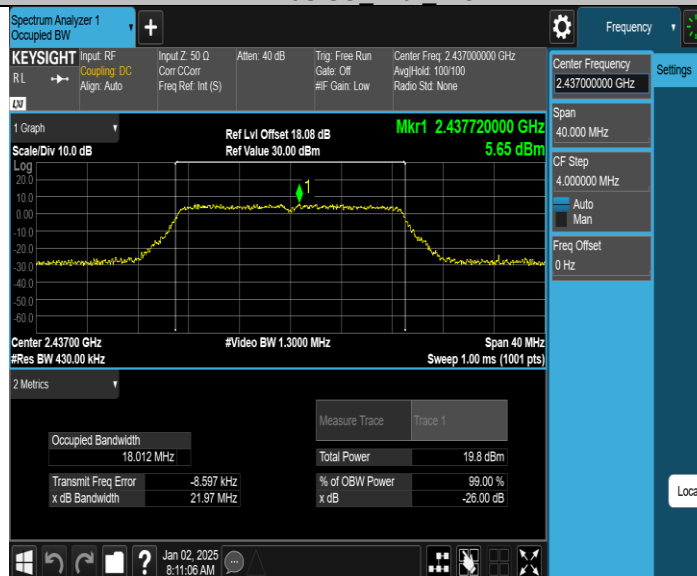
11G_Ant1_2462



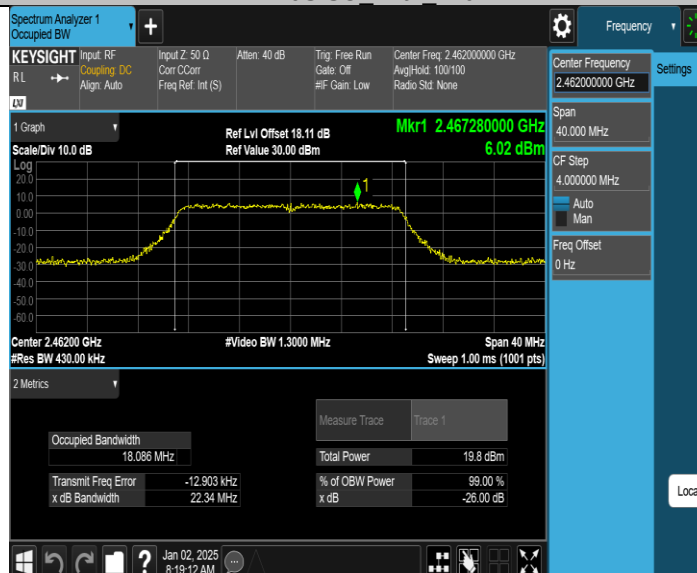
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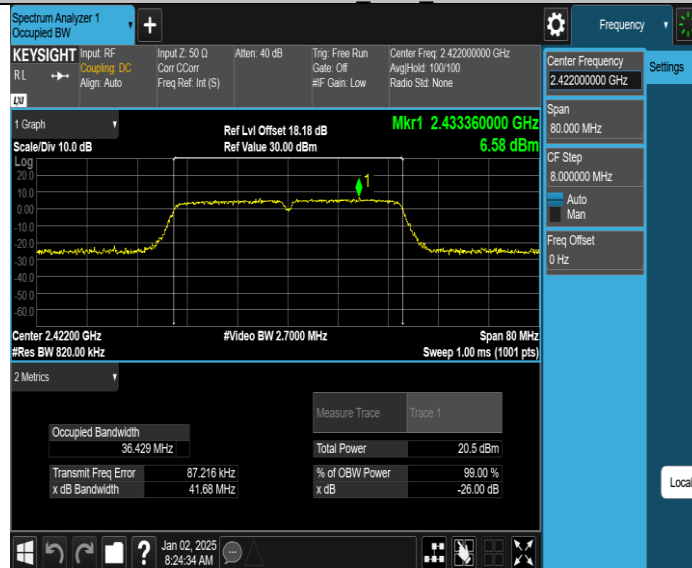
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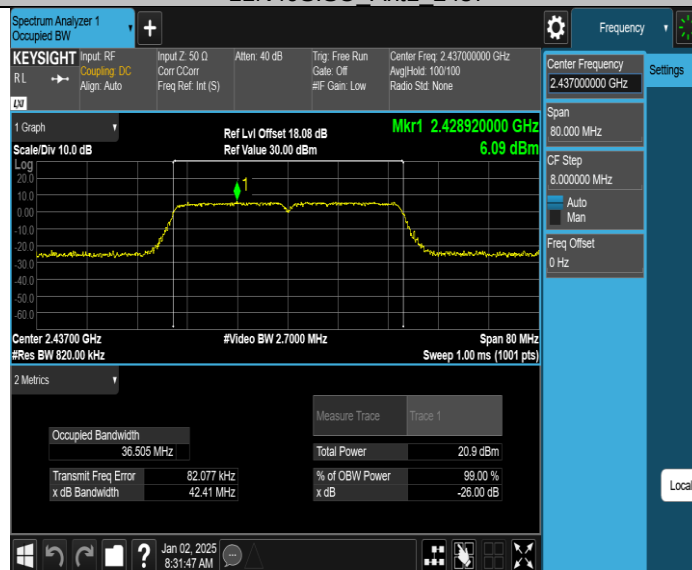
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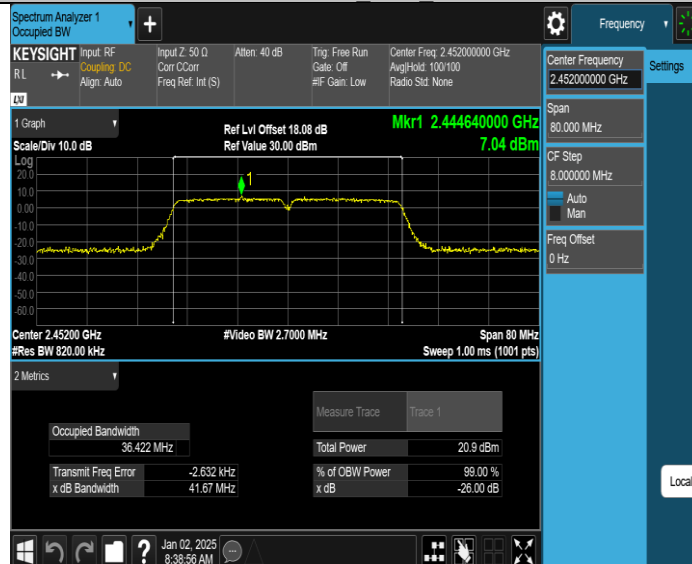
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452

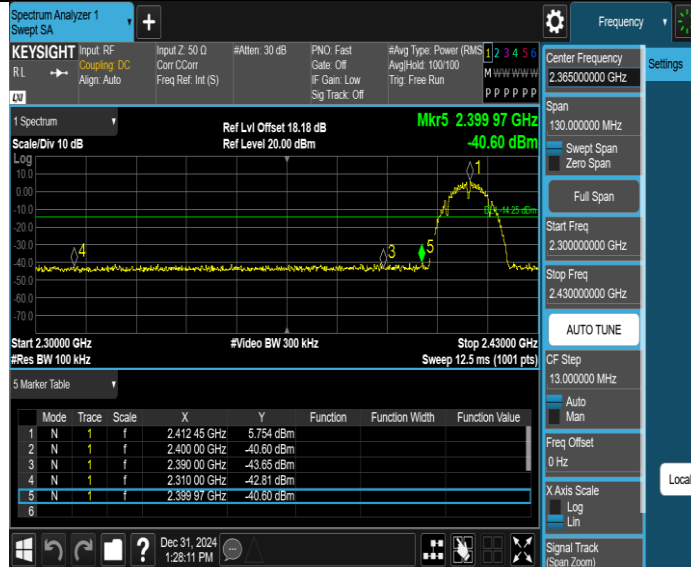


Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

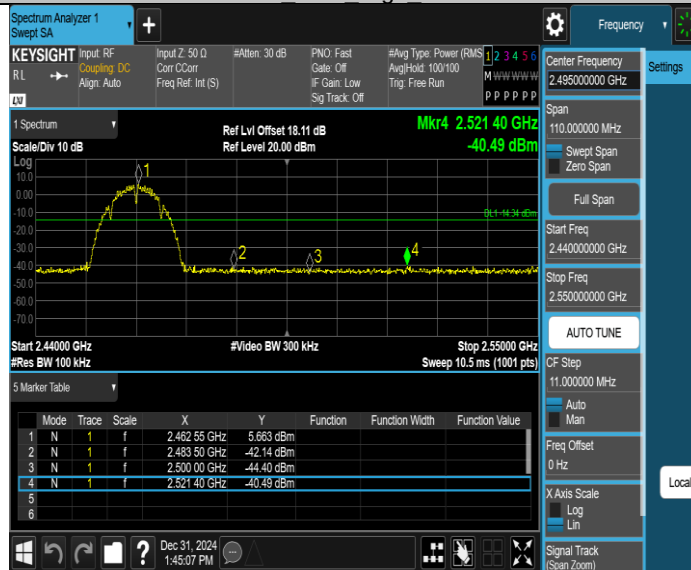
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.75	-40.6	≤-14.25	PASS
		High	2462	5.66	-40.49	≤-14.34	PASS
11G	Ant1	Low	2412	1.86	-37.41	≤-18.14	PASS
		High	2462	1.98	-39.96	≤-18.03	PASS
11N20SISO	Ant1	Low	2412	2.09	-37.18	≤-17.91	PASS
		High	2462	2.46	-40.28	≤-17.54	PASS
11N40SISO	Ant1	Low	2422	-0.30	-35.95	≤-20.3	PASS
		High	2452	-1.01	-39.1	≤-21.01	PASS

11B Ant1 Low 2412



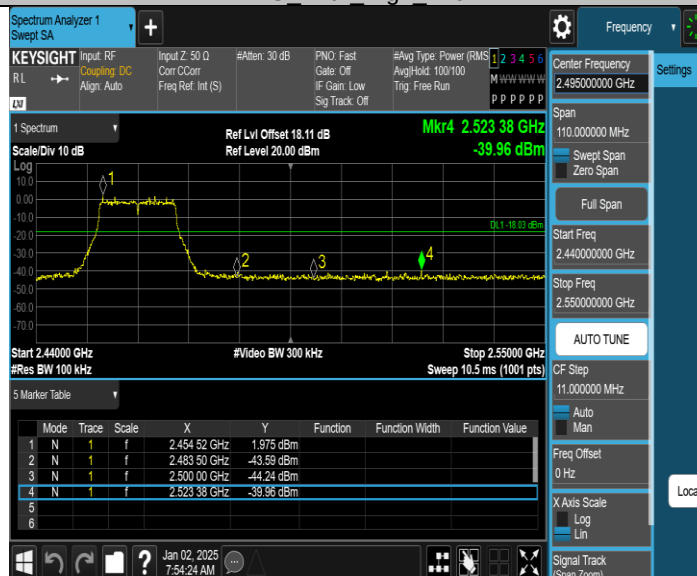
11B Ant1 High 2462



11G Ant1 Low 2412



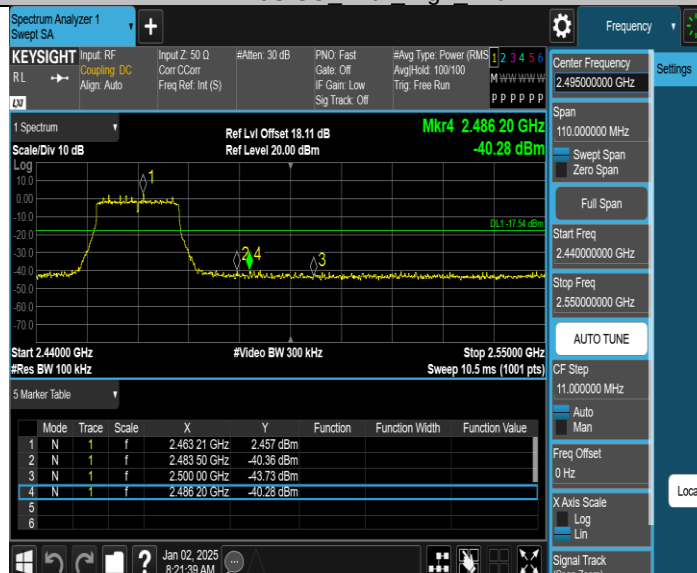
11G_Ant1_High_2462



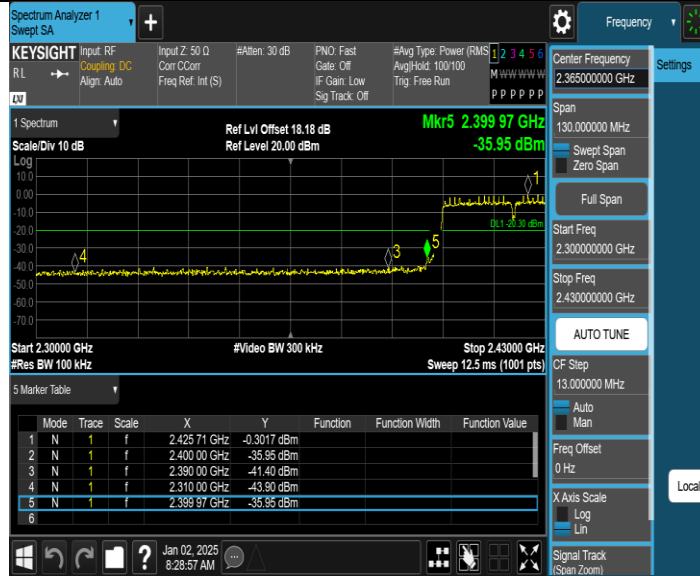
11N20SISO_Ant1_Low_2412



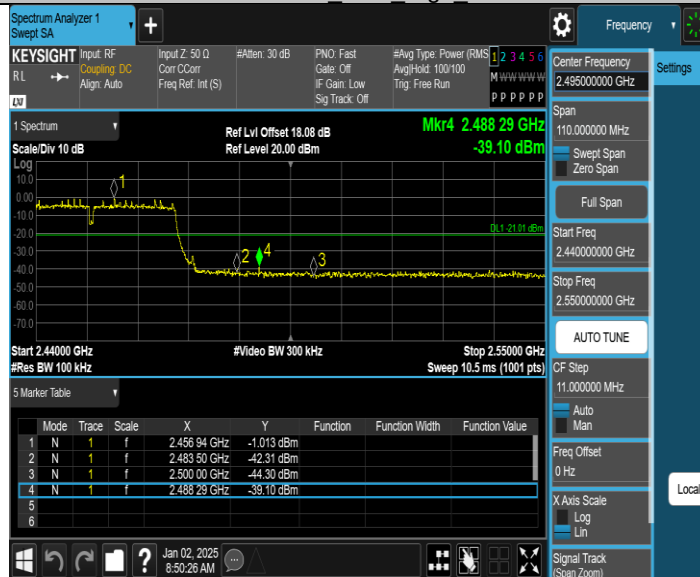
11N20SISO_Ant1_High_2462



11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452



Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.01	5.01	---	PASS
			30~1000	5.01	-42.12	≤-14.99	PASS
			1000~26500	5.01	-32.88	≤-14.99	PASS
		2437	Reference	4.96	4.96	---	PASS
			30~1000	4.96	-42.69	≤-15.04	PASS
			1000~26500	4.96	-32.54	≤-15.04	PASS
		2462	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-42.27	≤-14.8	PASS
			1000~26500	5.20	-32.93	≤-14.8	PASS
11G	Ant1	2412	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-42.16	≤-20.64	PASS
			1000~26500	-0.64	-32.69	≤-20.64	PASS
		2437	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-41.8	≤-19.35	PASS
			1000~26500	0.65	-34.76	≤-19.35	PASS
		2462	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-42.3	≤-20.64	PASS
			1000~26500	-0.64	-33.52	≤-20.64	PASS
11N20SISO	Ant1	2412	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-41.25	≤-19.66	PASS
			1000~26500	0.34	-32.43	≤-19.66	PASS
		2437	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-42.27	≤-21.02	PASS
			1000~26500	-1.02	-32.96	≤-21.02	PASS
		2462	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-41.96	≤-18.19	PASS
			1000~26500	1.81	-31.79	≤-18.19	PASS
11N40SISO	Ant1	2422	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-42.06	≤-21.96	PASS
			1000~26500	-1.96	-32.65	≤-21.96	PASS
		2437	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-42.03	≤-20.49	PASS
			1000~26500	-0.49	-32.34	≤-20.49	PASS
		2452	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-41.74	≤-24	PASS
			1000~26500	-4.00	-32.72	≤-24	PASS

11B_Ant1_2412_0-Reference



11B_Ant1_2412_30-1000



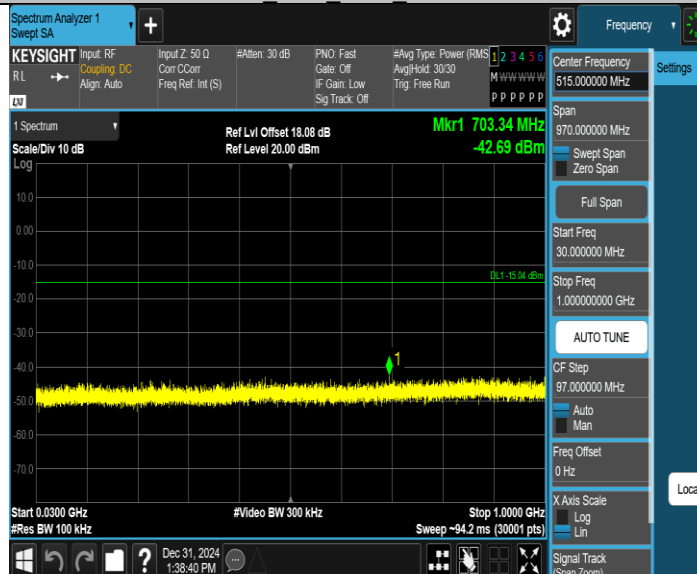
11B_Ant1_2412_1000-26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



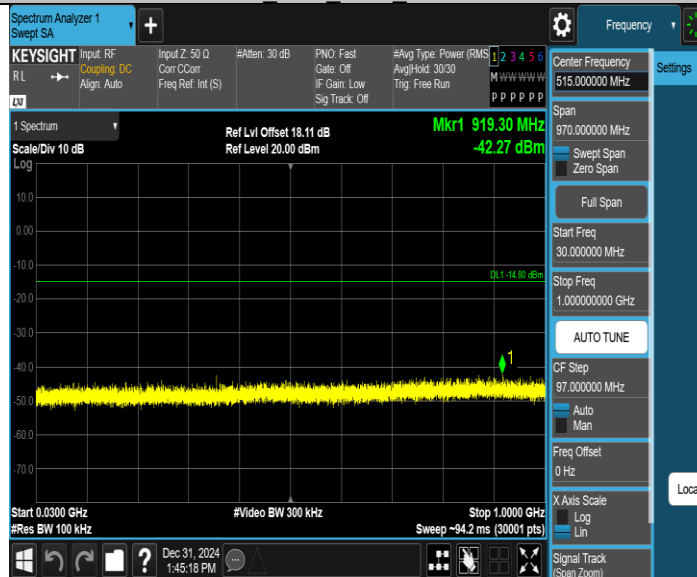
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0-Reference



11B_Ant1_2462_30-1000



11B_Ant1_2462_1000-26500

