

Appendix A: Test Results of 2.4GHz Wi-Fi for Module AP6275PR3

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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	-4.25	≤8.00	PASS
	Ant2	2412	-3.2	≤8.00	PASS
	Ant1	2437	-3.39	≤8.00	PASS
	Ant2	2437	-2.74	≤8.00	PASS
	Ant1	2462	-4.33	≤8.00	PASS
	Ant2	2462	-4.07	≤8.00	PASS
11G	Ant1	2412	-6.1	≤8.00	PASS
	Ant2	2412	-6.72	≤8.00	PASS
	Ant1	2437	-5.66	≤8.00	PASS
	Ant2	2437	-6.5	≤8.00	PASS
	Ant1	2462	-5.66	≤8.00	PASS
	Ant2	2462	-5.83	≤8.00	PASS
11N20MIMO	Ant1	2412	-9.26	≤8.00	PASS
	Ant2	2412	-8.87	≤8.00	PASS
	total	2412	-6.05	≤8.00	PASS
	Ant1	2437	-8.34	≤8.00	PASS
	Ant2	2437	-8.26	≤8.00	PASS
	total	2437	-5.29	≤8.00	PASS
	Ant1	2462	-9.24	≤8.00	PASS
	Ant2	2462	-7.68	≤8.00	PASS
	total	2462	-5.38	≤8.00	PASS
11AX20MIMO	Ant1	2412	-9.95	≤8.00	PASS
	Ant2	2412	-9.07	≤8.00	PASS
	total	2412	-6.48	≤8.00	PASS
	Ant1	2437	-9.19	≤8.00	PASS
	Ant2	2437	-8.8	≤8.00	PASS
	total	2437	-5.98	≤8.00	PASS
	Ant1	2462	-9.09	≤8.00	PASS
	Ant2	2462	-9.13	≤8.00	PASS
	total	2462	-6.10	≤8.00	PASS

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B_Ant2_2437

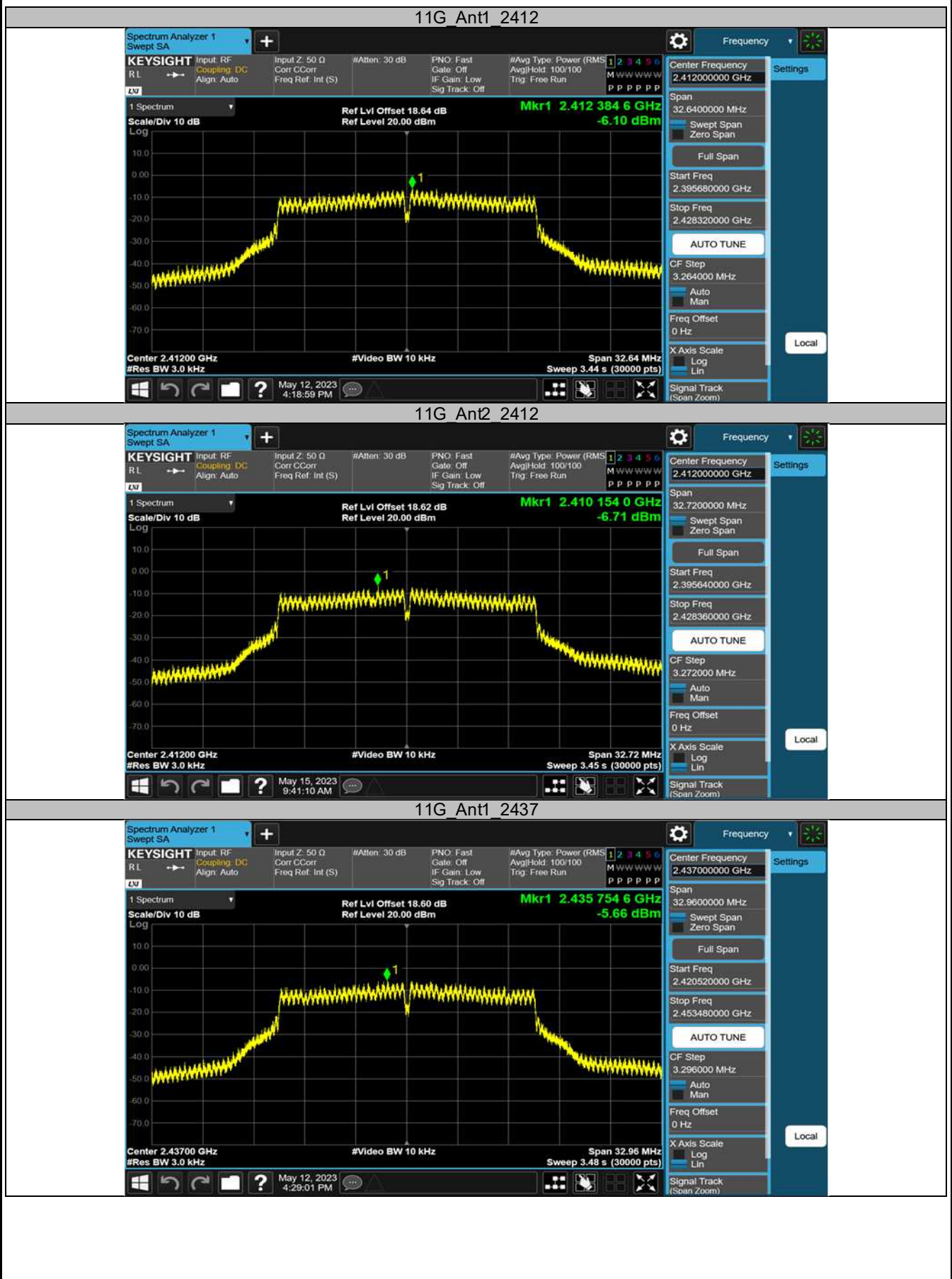


11B_Ant1_2462

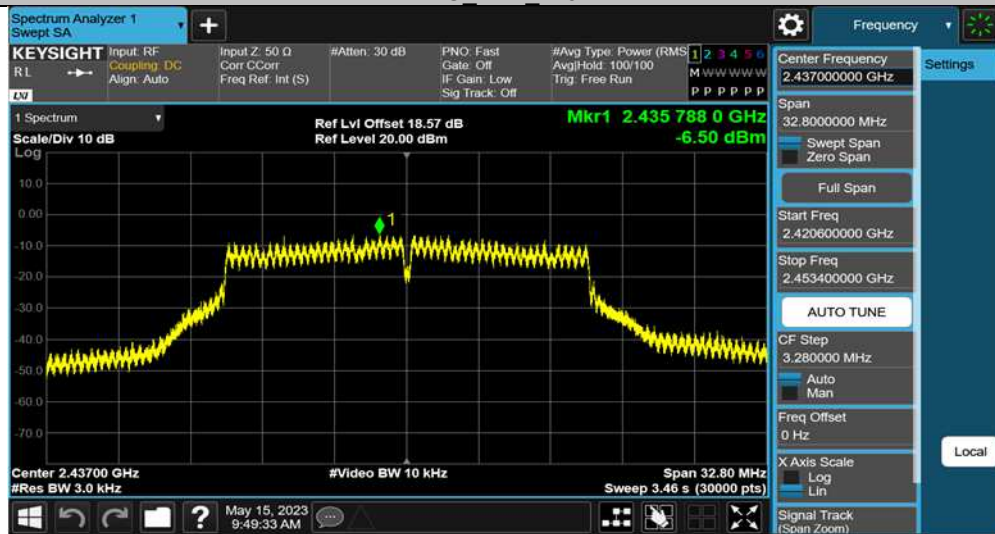


11B_Ant2_2462





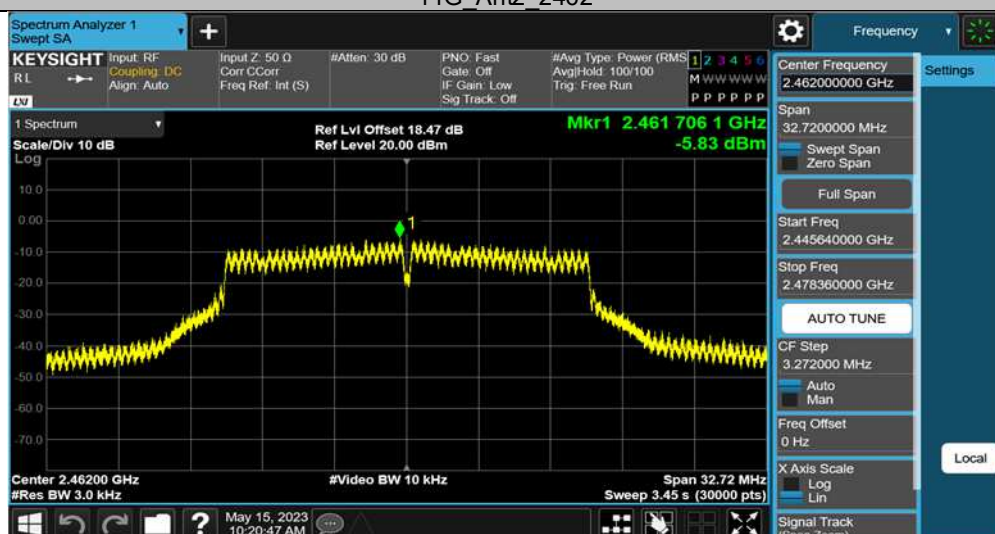
11G_Ant2_2437



11G_Ant1_2462



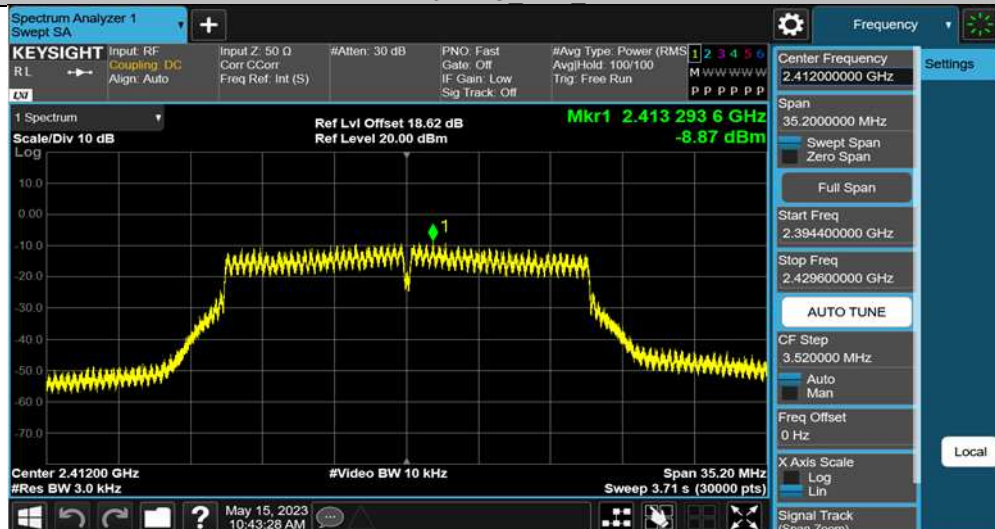
11G_Ant2_2462



11N20MIMO_Ant1_2412



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



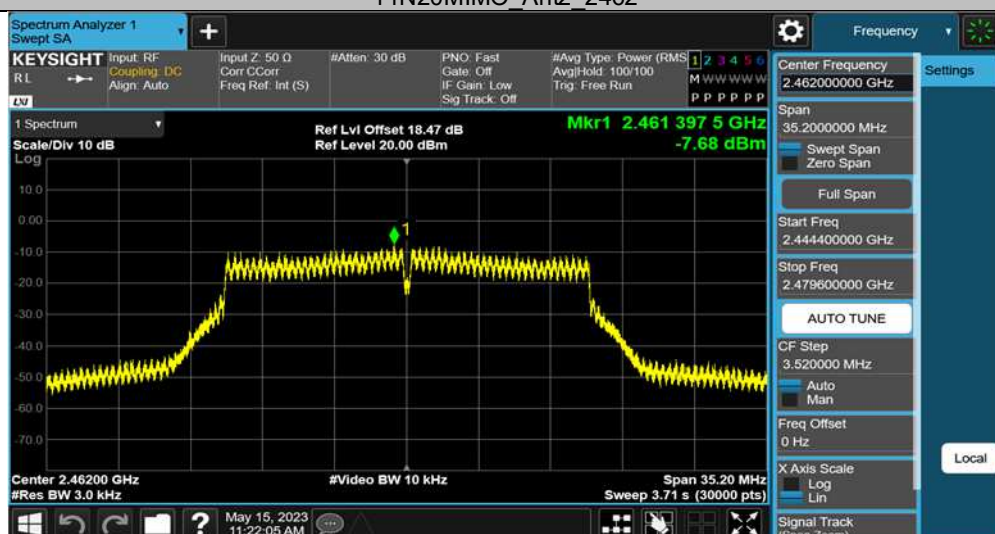
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11N20MIMO_Ant1_2462

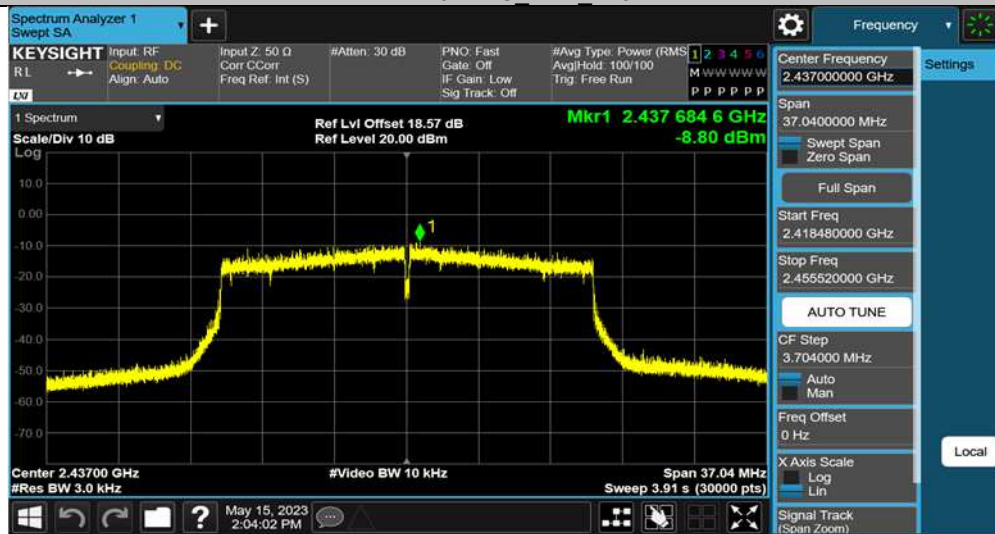


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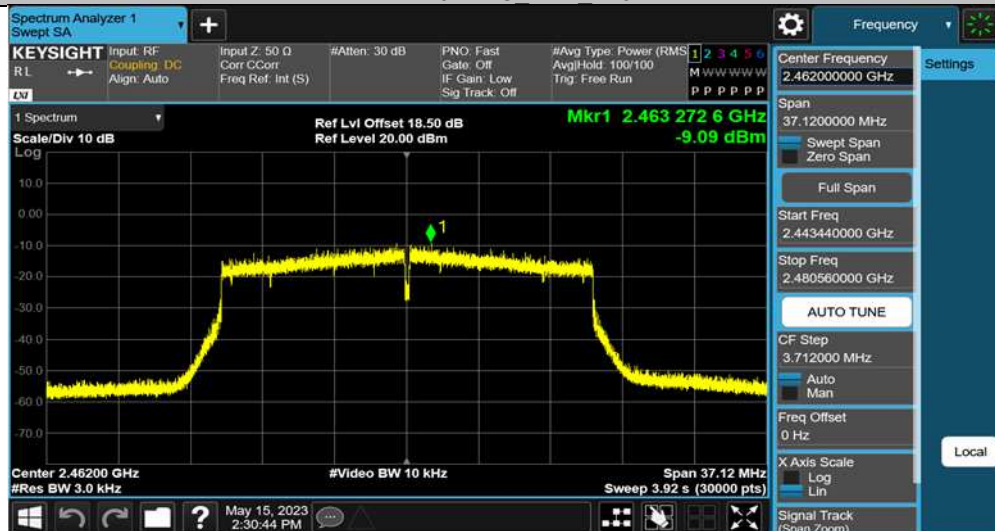




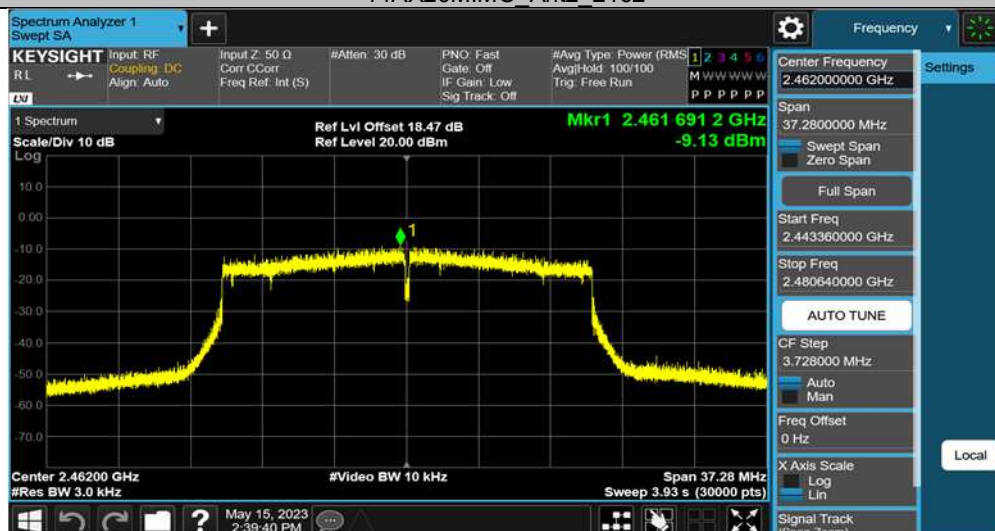
11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



Appendix A.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.040	2408.520	2415.560	0.5	PASS
	Ant2	2412	6.520	2408.520	2415.040	0.5	PASS
	Ant1	2437	8.040	2433.000	2441.040	0.5	PASS
	Ant2	2437	7.040	2433.560	2440.600	0.5	PASS
	Ant1	2462	7.000	2458.560	2465.560	0.5	PASS
	Ant2	2462	6.600	2458.960	2465.560	0.5	PASS
11G	Ant1	2412	16.320	2403.880	2420.200	0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant1	2437	16.480	2428.760	2445.240	0.5	PASS
	Ant2	2437	16.400	2428.800	2445.200	0.5	PASS
	Ant1	2462	16.360	2453.840	2470.200	0.5	PASS
	Ant2	2462	16.360	2453.840	2470.200	0.5	PASS
11N20MIMO	Ant1	2412	17.320	2403.480	2420.800	0.5	PASS
	Ant2	2412	17.600	2403.200	2420.800	0.5	PASS
	Ant1	2437	17.560	2428.240	2445.800	0.5	PASS
	Ant2	2437	17.560	2428.240	2445.800	0.5	PASS
	Ant1	2462	17.600	2453.240	2470.840	0.5	PASS
	Ant2	2462	17.600	2453.240	2470.840	0.5	PASS
11AX20MIMO	Ant1	2412	18.240	2402.920	2421.160	0.5	PASS
	Ant2	2412	18.600	2402.680	2421.280	0.5	PASS
	Ant1	2437	18.720	2427.760	2446.480	0.5	PASS
	Ant2	2437	18.520	2427.680	2446.200	0.5	PASS
	Ant1	2462	18.560	2452.800	2471.360	0.5	PASS
	Ant2	2462	18.640	2452.640	2471.280	0.5	PASS

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437



11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



11N20MIMO_Ant2_2437



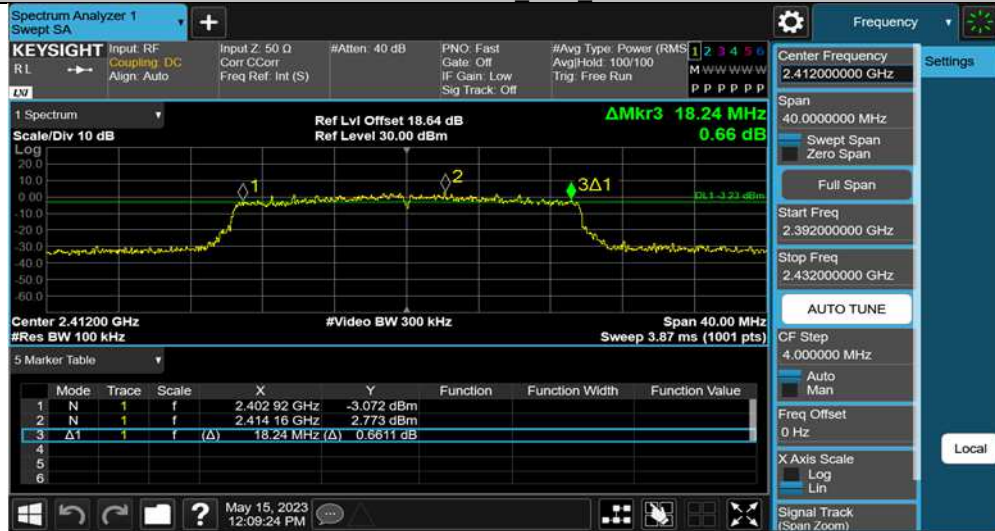
11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



11AX20MIMO_Ant1_2412



11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



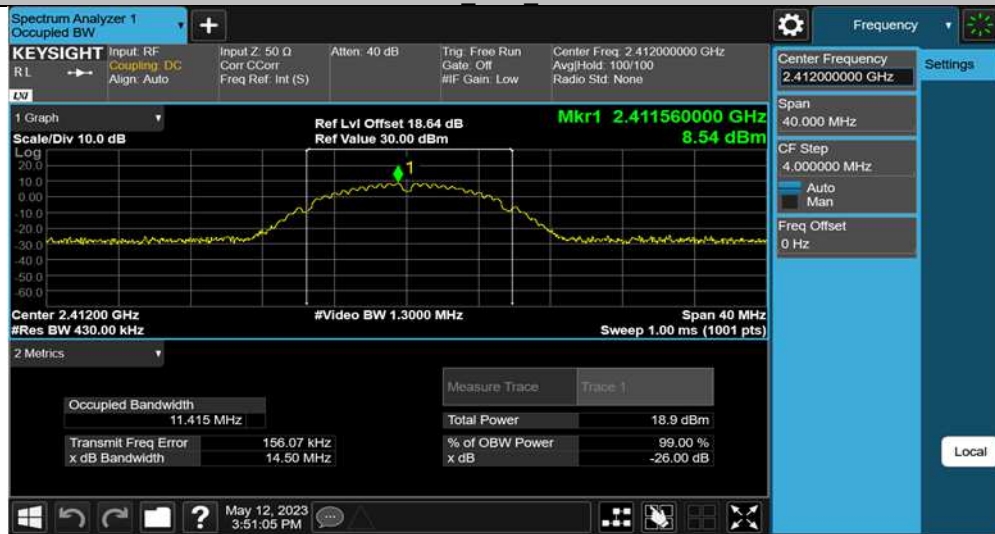
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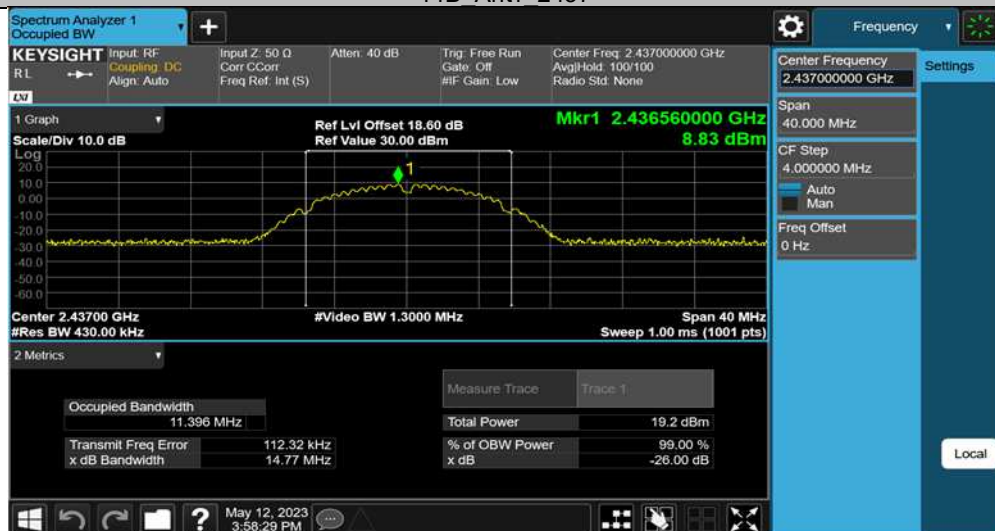
Appendix A.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.415	2406.4486	2417.8636	---	PASS
		2437	11.396	2431.4143	2442.8103	---	PASS
		2462	11.273	2456.4716	2467.7446	---	PASS
11G	Ant1	2412	17.283	2403.4786	2420.7616	---	PASS
		2437	17.281	2428.4164	2445.6974	---	PASS
		2462	17.177	2453.4289	2470.6059	---	PASS
11N20MIMO	Ant1	2412	18.274	2402.9292	2421.2032	---	PASS
		2437	18.299	2427.8828	2446.1818	---	PASS
		2462	18.280	2452.8960	2471.1760	---	PASS
11AX20MIMO	Ant1	2412	18.983	2402.5608	2421.5438	---	PASS
		2437	19.027	2427.5462	2446.5732	---	PASS
		2462	18.976	2452.5436	2471.5196	---	PASS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



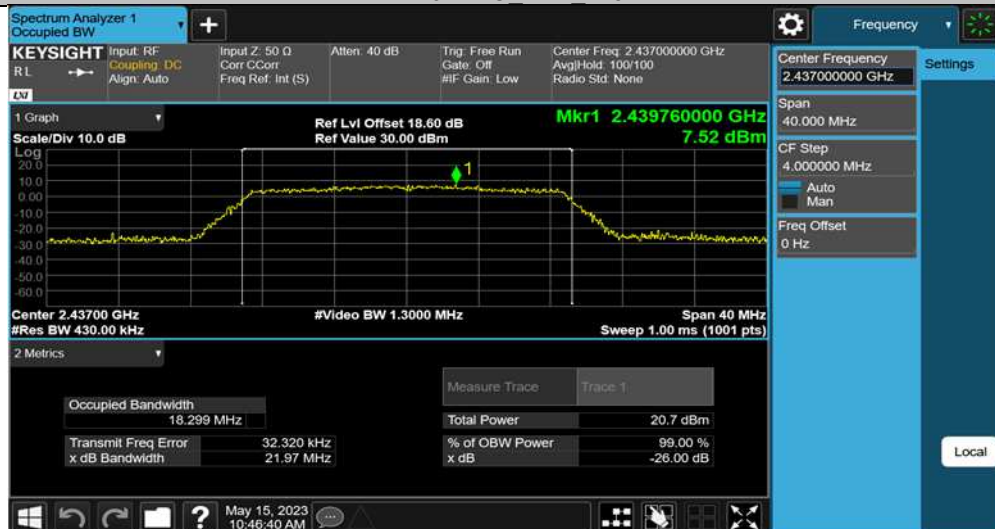
11G_Ant1_2462



11N20MIMO_Ant1_2412



11N20MIMO_Ant1_2437



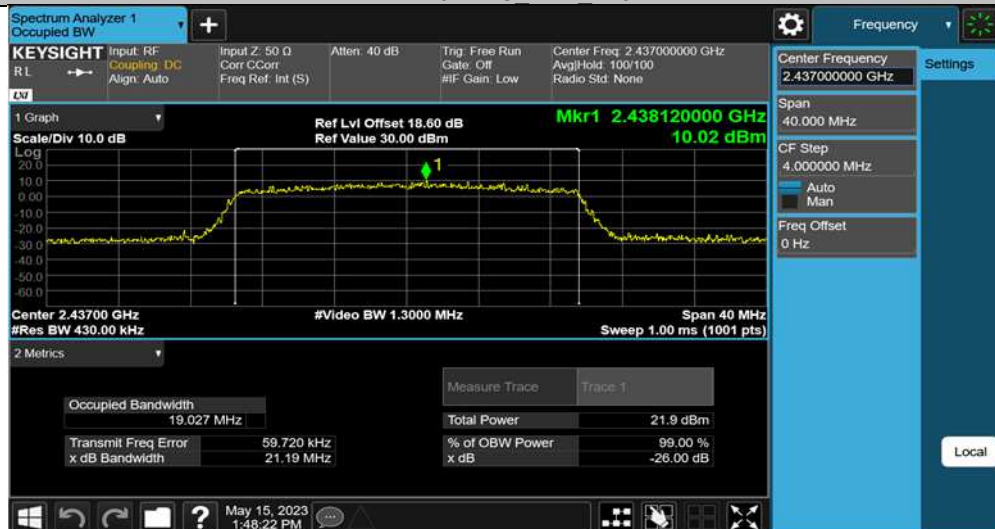
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11AX20MIMO_Ant1_2412



11AX20MIMO_Ant1_2437



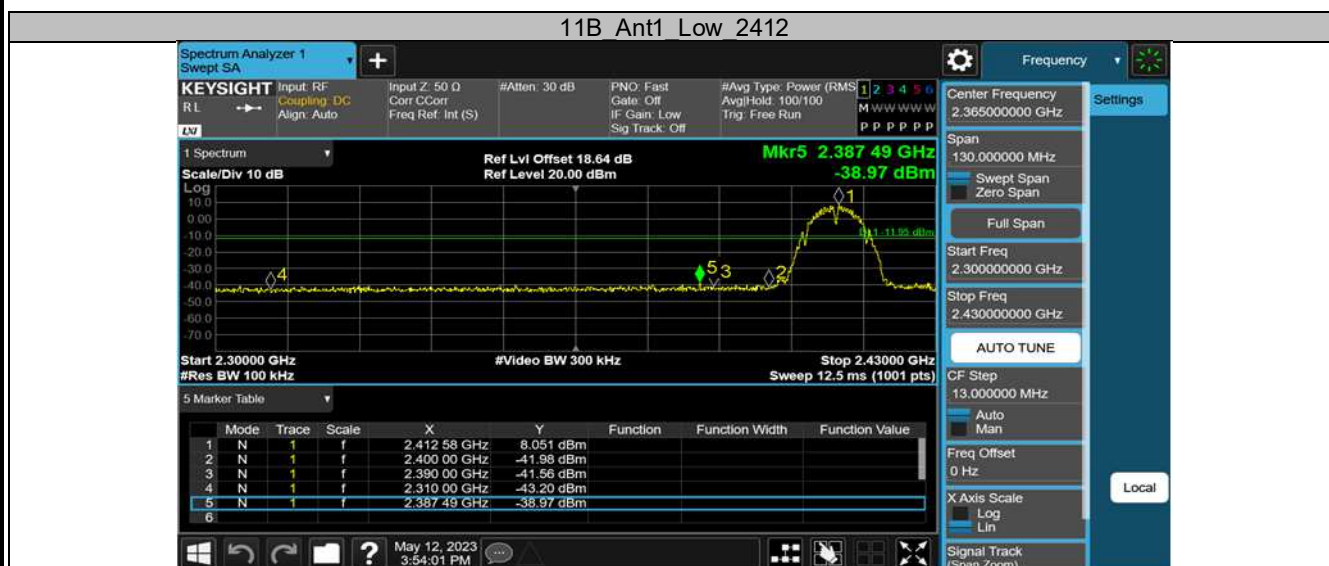
11AX20MIMO_Ant1_2462



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	8.05	-38.97	≤-11.95	PASS
		High	2462	9.06	-39.62	≤-10.94	PASS
11G	Ant1	Low	2412	5.40	-26.51	≤-14.6	PASS
		High	2462	5.18	-33.86	≤-14.82	PASS
11N20MIMO	Ant1	Low	2412	1.55	-32.2	≤-18.45	PASS
		High	2462	1.84	-39.92	≤-18.16	PASS
11AX20MIMO	Ant1	Low	2412	2.69	-33.69	≤-17.31	PASS
		High	2462	2.47	-39.4	≤-17.53	PASS



11G Ant1 Low 2412



11G Ant1 High 2462



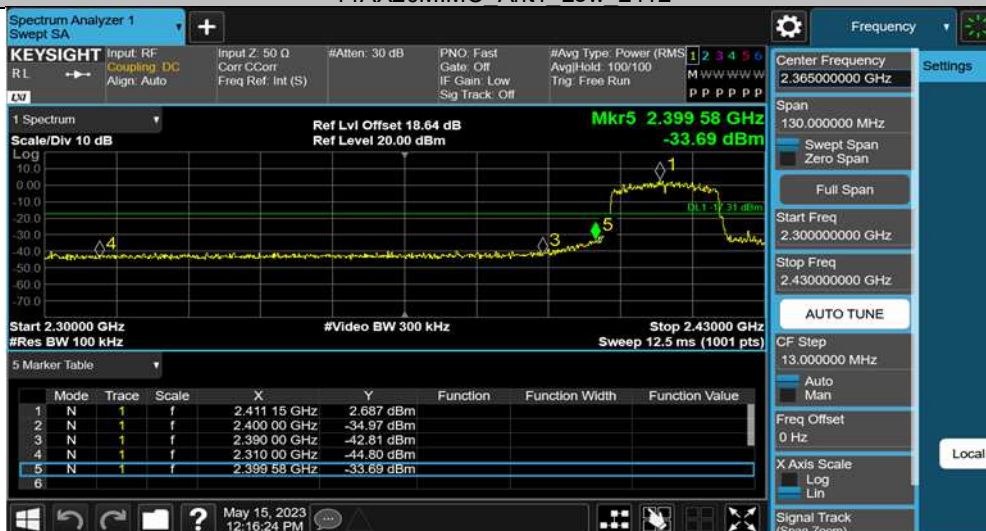
11N20MIMO Ant1 Low 2412



11N20MIMO Ant1 High 2462



11AX20MIMO Ant1 Low 2412



11AX20MIMO Ant1 High 2462



Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.12	7.12	---	PASS
			30~1000	7.12	-41.16	≤-12.88	PASS
			1000~26500	7.12	-31.56	≤-12.88	PASS
		2437	Reference	6.45	6.45	---	PASS
			30~1000	6.45	-40.07	≤-13.55	PASS
			1000~26500	6.45	-32.07	≤-13.55	PASS
		2462	Reference	7.94	7.94	---	PASS
			30~1000	7.94	-41.14	≤-12.06	PASS
			1000~26500	7.94	-31.71	≤-12.06	PASS
11G	Ant1	2412	Reference	4.38	4.38	---	PASS
			30~1000	4.38	-40.95	≤-15.62	PASS
			1000~26500	4.38	-31.01	≤-15.62	PASS
		2437	Reference	5.10	5.10	---	PASS
			30~1000	5.10	-40.62	≤-14.9	PASS
			1000~26500	5.10	-30.79	≤-14.9	PASS
		2462	Reference	4.43	4.43	---	PASS
			30~1000	4.43	-41.07	≤-15.57	PASS
			1000~26500	4.43	-31.85	≤-15.57	PASS
11N20MIMO	Ant1	2412	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-41.51	≤-19.57	PASS
			1000~26500	0.43	-32.17	≤-19.57	PASS
		2437	Reference	1.22	1.22	---	PASS
			30~1000	1.22	-40.98	≤-18.78	PASS
			1000~26500	1.22	-33.04	≤-18.78	PASS
		2462	Reference	0.50	0.50	---	PASS
			30~1000	0.50	-41.02	≤-19.5	PASS
			1000~26500	0.50	-32.27	≤-19.5	PASS
11AX20MIMO	Ant1	2412	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-41.32	≤-20.02	PASS
			1000~26500	-0.02	-32.2	≤-20.02	PASS
		2437	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-41.83	≤-18.43	PASS
			1000~26500	1.57	-32.19	≤-18.43	PASS
		2462	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-41.62	≤-17.72	PASS
			1000~26500	2.28	-32.57	≤-17.72	PASS

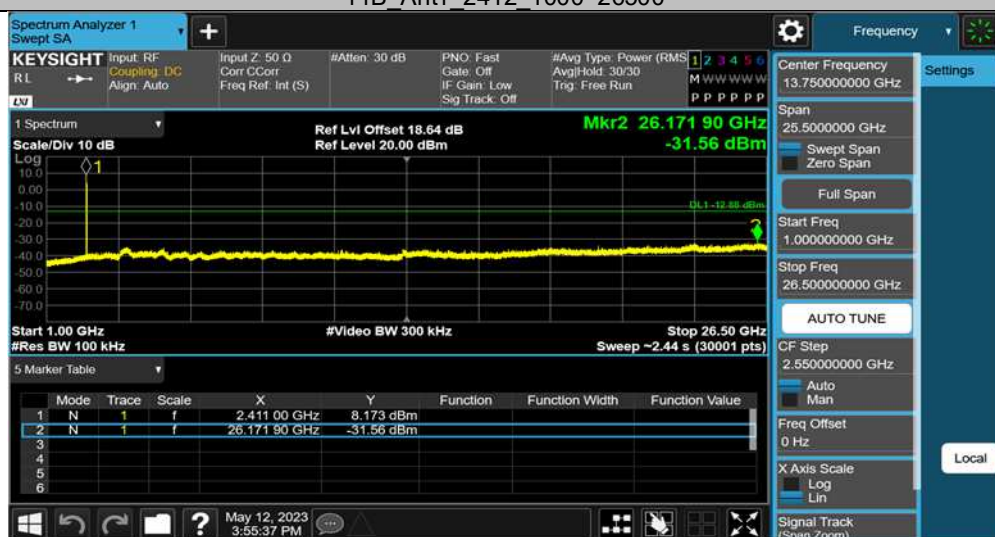
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



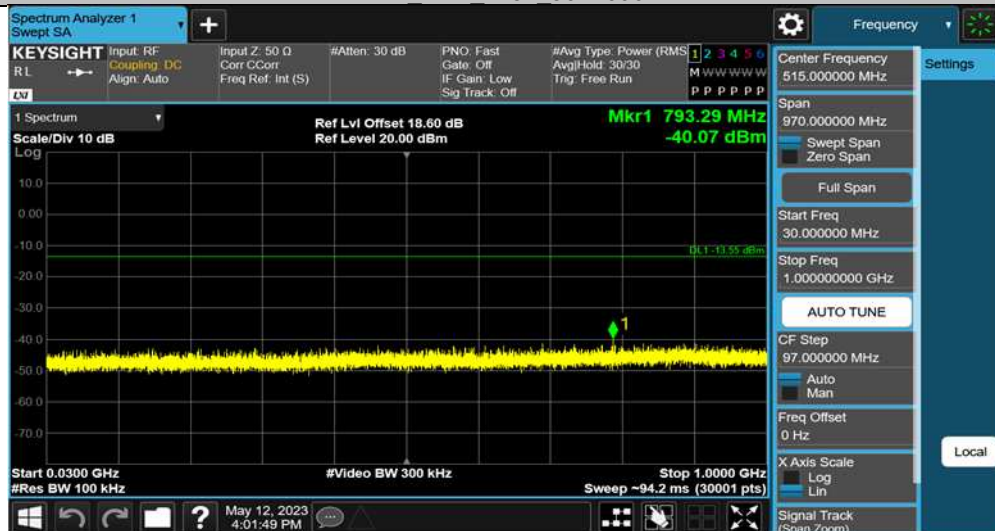
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500

