

Appendix C: Test Results of 2.4GHz Wi-Fi

APPENDIX C: TEST RESULTS OF 2.4GHZ WI-FI.....	1
APPENDIX C.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY.....	2
APPENDIX C.2: TEST RESULTS OF 6DB BANDWIDTH.....	15
APPENDIX C.3: TEST RESULTS OF 99% BANDWIDTH.....	28
APPENDIX C.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH.....	35
<i>Band Edge</i>	35
<i>Conducted Spurious Emission</i>	40
APPENDIX C.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	59
30MHz - 1GHz.....	59
30MHz - 1GHz for co-location.....	61
1GHz - 18GHz.....	65
1GHz - 18GHz for co-location.....	89
APPENDIX C.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	97

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

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	2.26	≤8.00	PASS
	Ant2	2412	1.09	≤8.00	PASS
	total	---	---	---	---
	Ant1	2437	3.21	≤8.00	PASS
	Ant2	2437	2.43	≤8.00	PASS
	total	---	---	---	---
	Ant1	2462	2.54	≤8.00	PASS
	Ant2	2462	2.26	≤8.00	PASS
	total	---	---	---	---
11G-CDD	Ant1	2412	-0.22	≤8.00	PASS
	Ant2	2412	-2.44	≤8.00	PASS
	total	---	---	---	---
	Ant1	2437	-1.12	≤8.00	PASS
	Ant2	2437	-1.71	≤8.00	PASS
	total	---	---	---	---
	Ant1	2462	-2.3	≤8.00	PASS
	Ant2	2462	-2.99	≤8.00	PASS
	total	---	---	---	---
11N20MIMO	Ant1	2412	-2.77	≤8.00	PASS
	Ant2	2412	-1.98	≤8.00	PASS
	total	2412	0.65	≤8.00	PASS
	Ant1	2437	-1.48	≤8.00	PASS
	Ant2	2437	-0.96	≤8.00	PASS
	total	2437	1.80	≤8.00	PASS
	Ant1	2462	-1.56	≤8.00	PASS
	Ant2	2462	-0.12	≤8.00	PASS
	total	2462	2.23	≤8.00	PASS
11N40MIMO	Ant1	2422	-8.81	≤8.00	PASS
	Ant2	2422	-7.97	≤8.00	PASS
	total	2422	-5.36	≤8.00	PASS
	Ant1	2437	-3.91	≤8.00	PASS
	Ant2	2437	-2.67	≤8.00	PASS
	total	2437	-0.24	≤8.00	PASS
	Ant1	2452	-9.44	≤8.00	PASS
	Ant2	2452	-7.55	≤8.00	PASS
	total	2452	-5.38	≤8.00	PASS
11AX20MIMO	Ant1	2412	-3.07	≤8.00	PASS
	Ant2	2412	-3.33	≤8.00	PASS
	total	2412	-0.19	≤8.00	PASS
	Ant1	2437	-2.74	≤8.00	PASS
	Ant2	2437	-1.93	≤8.00	PASS
	total	2437	0.69	≤8.00	PASS
	Ant1	2462	-2.56	≤8.00	PASS
	Ant2	2462	-1.11	≤8.00	PASS
	total	2462	1.24	≤8.00	PASS
11AX40MIMO	Ant1	2422	-10.14	≤8.00	PASS
	Ant2	2422	-8.84	≤8.00	PASS
	total	2422	-6.43	≤8.00	PASS
	Ant1	2437	-5.29	≤8.00	PASS
	Ant2	2437	-5.18	≤8.00	PASS
	total	2437	-2.22	≤8.00	PASS
	Ant1	2452	-10.04	≤8.00	PASS
	Ant2	2452	-8.9	≤8.00	PASS
	total	2452	-6.42	≤8.00	PASS

11B-CDD Ant1 2412



11B-CDD Ant2 2412



11B-CDD Ant1 2437



11B-CDD Ant2 2437



11B-CDD Ant1 2462



11B-CDD Ant2 2462



11G-CDD Ant1 2412



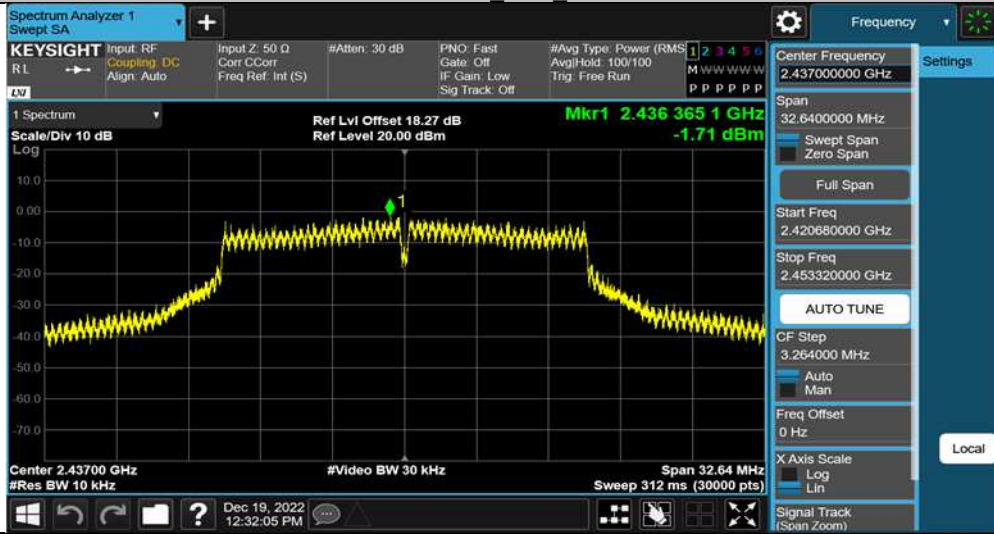
11G-CDD Ant2 2412



11G-CDD Ant1 2437



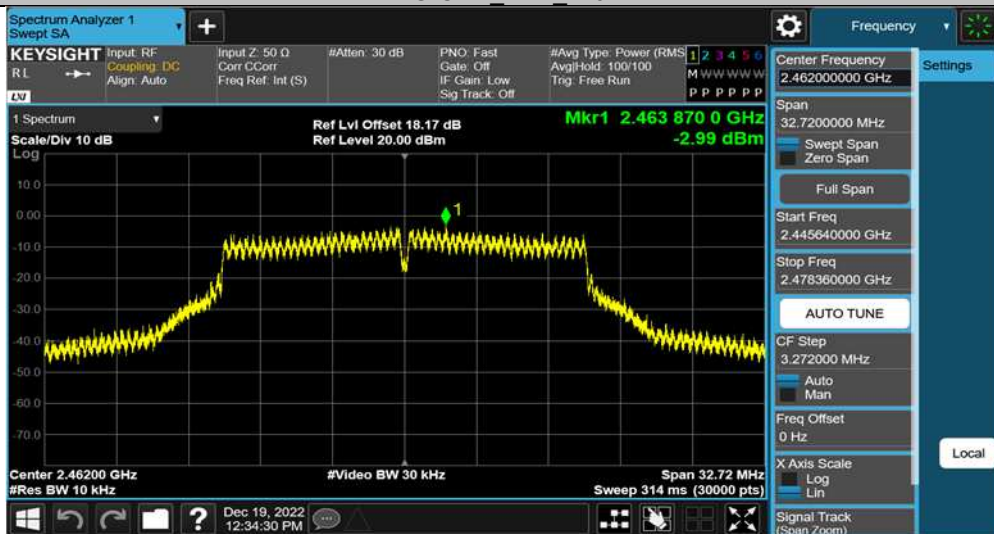
11G-CDD Ant2 2437



11G-CDD Ant1 2462



11G-CDD Ant2 2462



11N20MIMO Ant1 2412



11N20MIMO Ant2 2412



11N20MIMO Ant1 2437



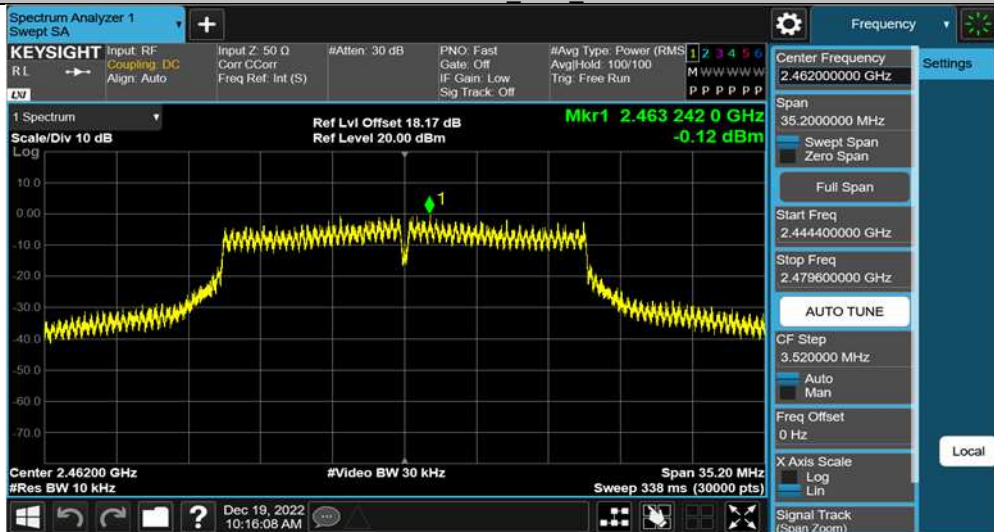
11N20MIMO_Ant2_2437



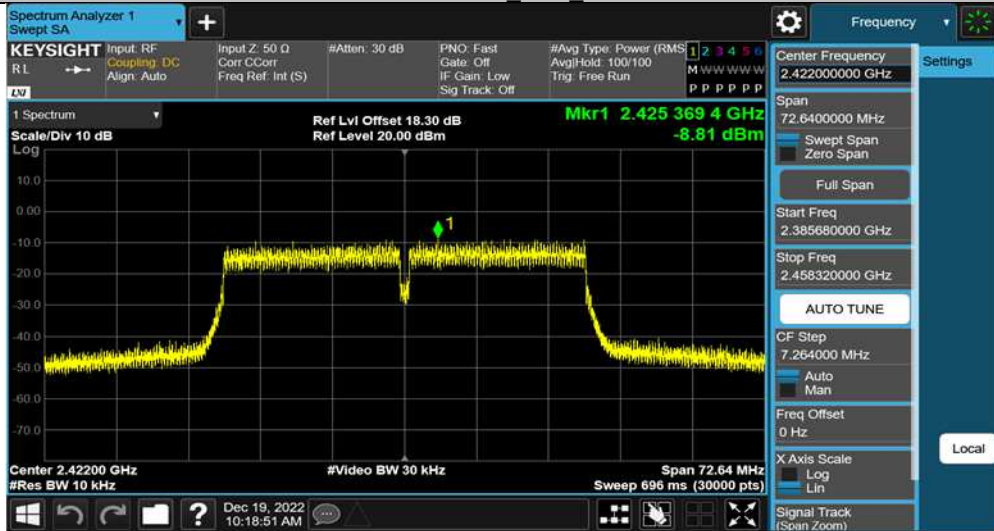
11N20MIMO_Ant1_2462



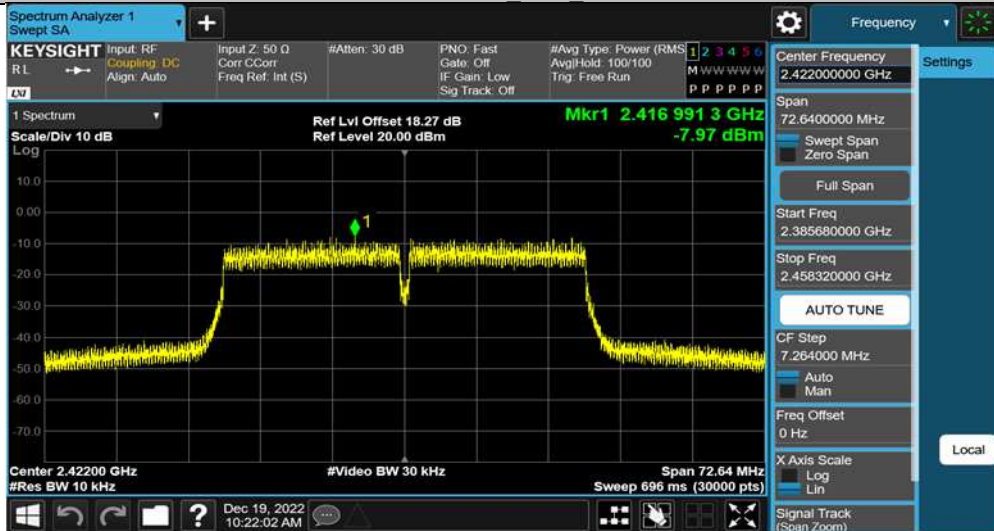
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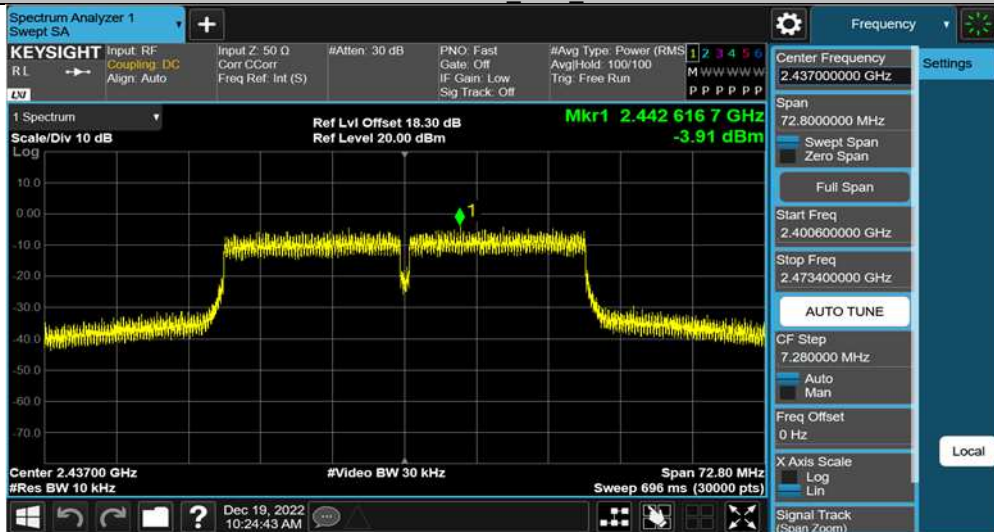
11N40MIMO Ant1 2422



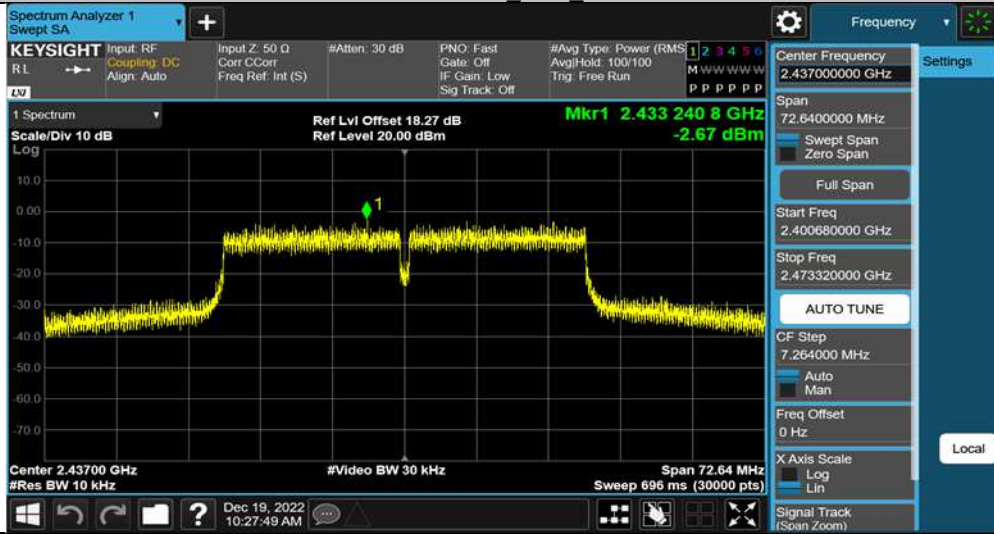
11N40MIMO Ant2 2422



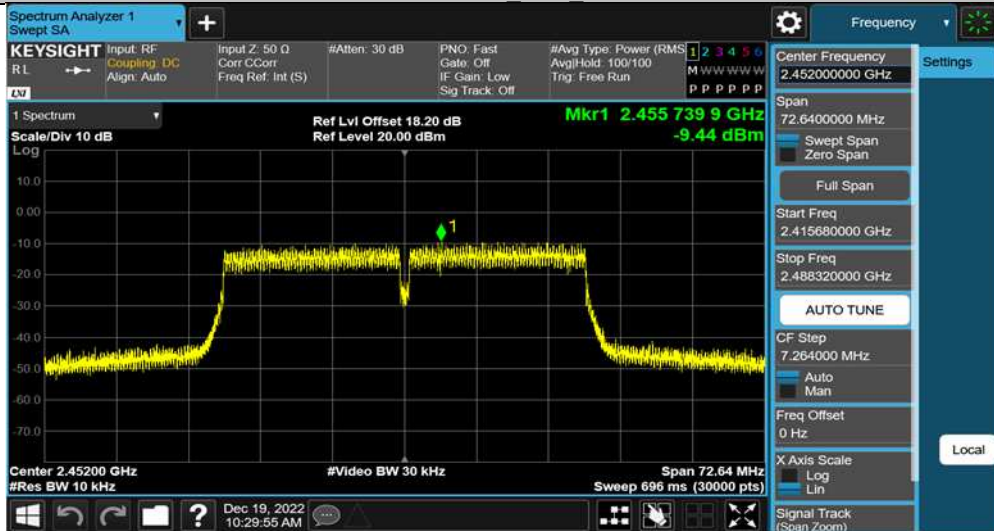
11N40MIMO Ant1 2437



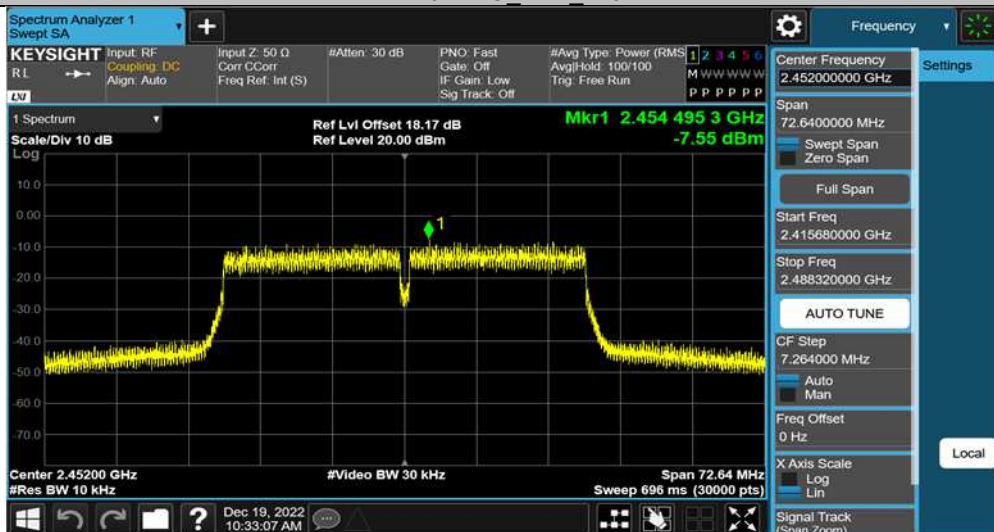
11N40MIMO_Ant2_2437



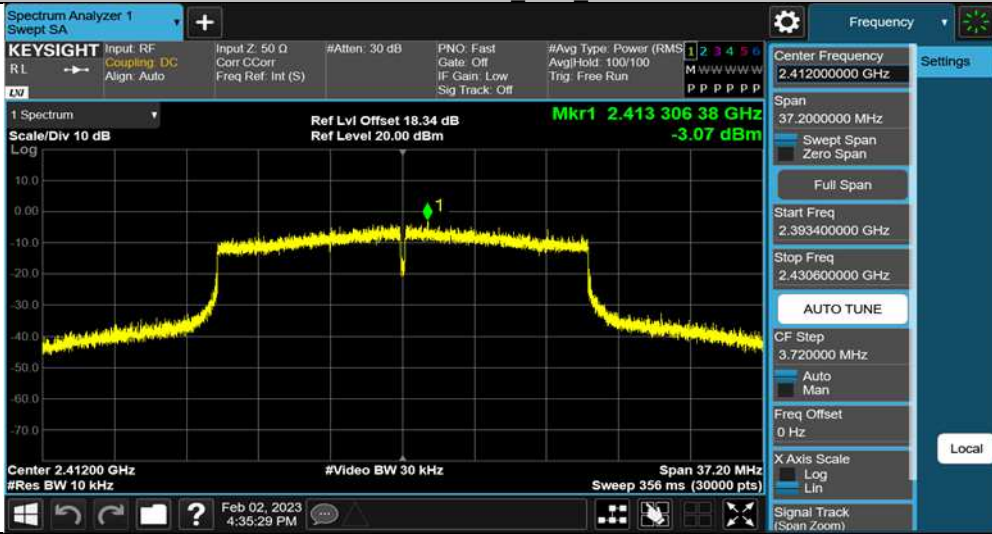
11N40MIMO_Ant1_2452



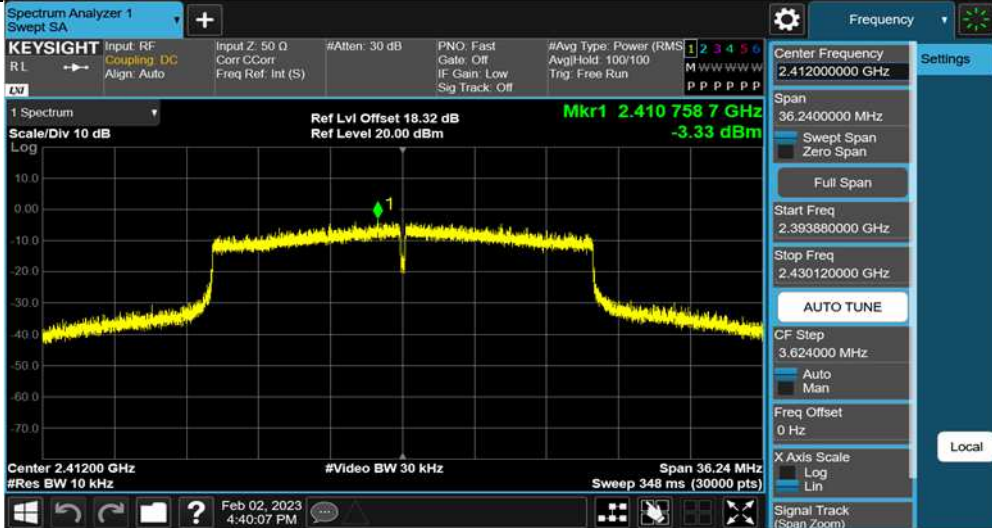
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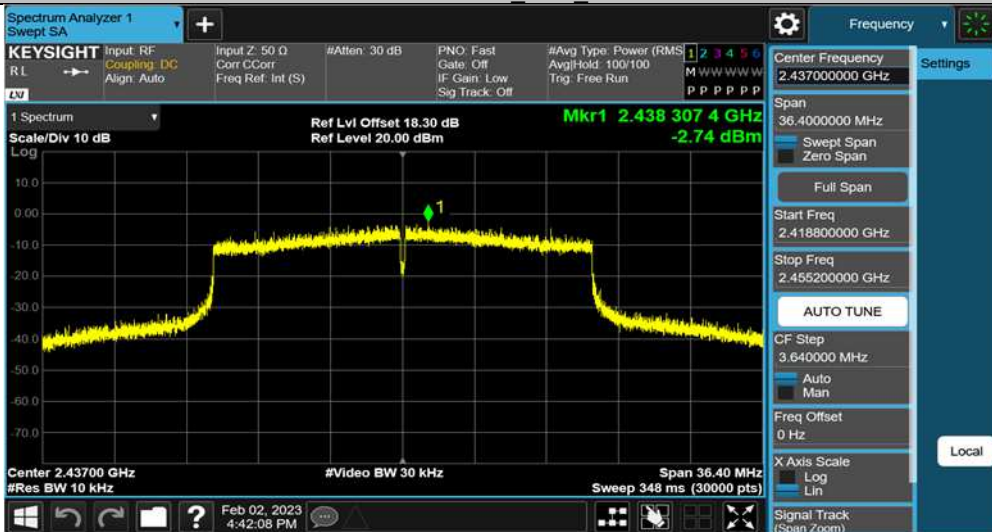
11AX20MIMO_Ant1_2412



11AX20MIMO_Ant2_2412



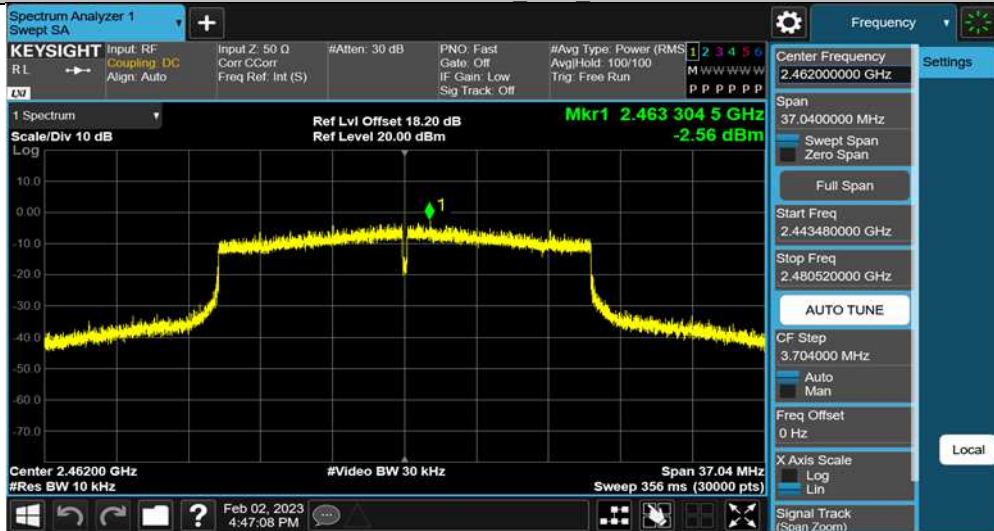
11AX20MIMO_Ant1_2437



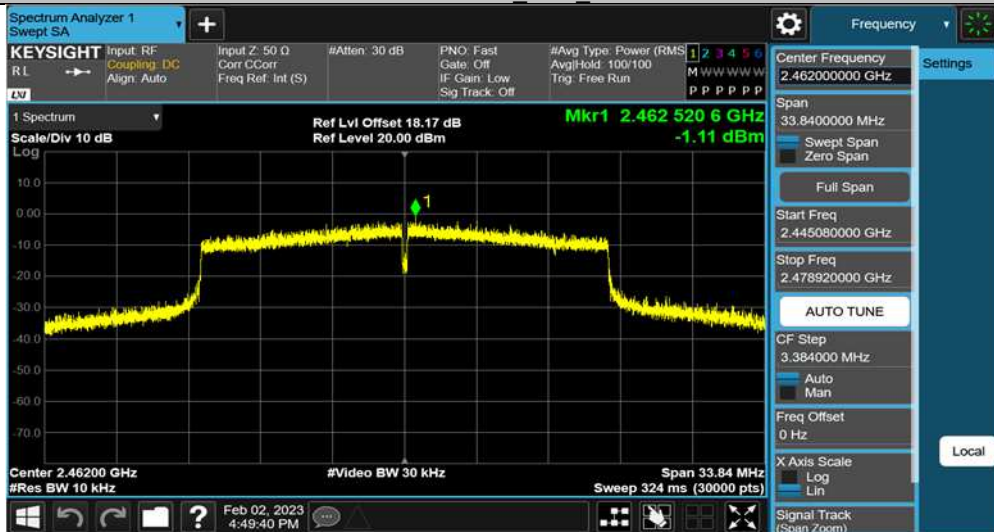
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11AX20MIMO_Ant1_2462



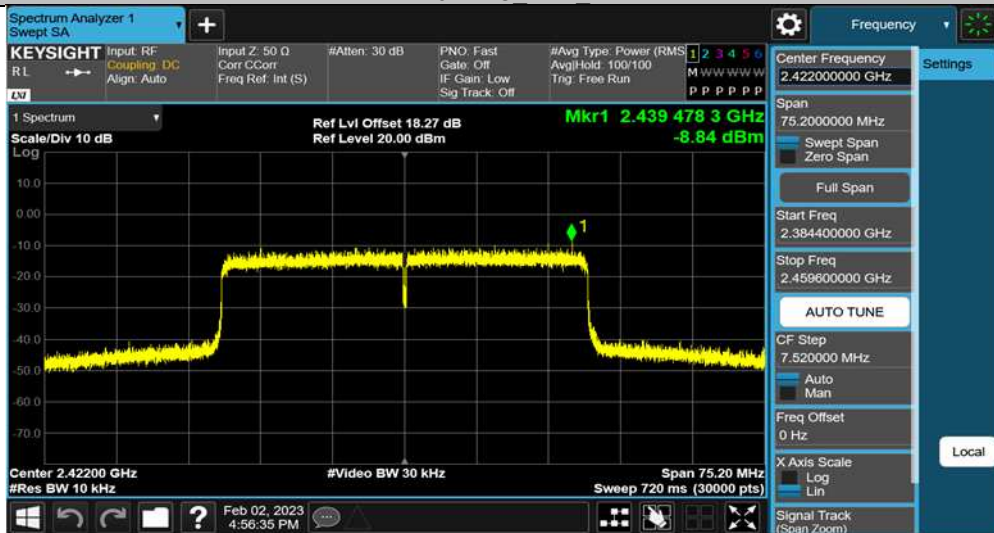
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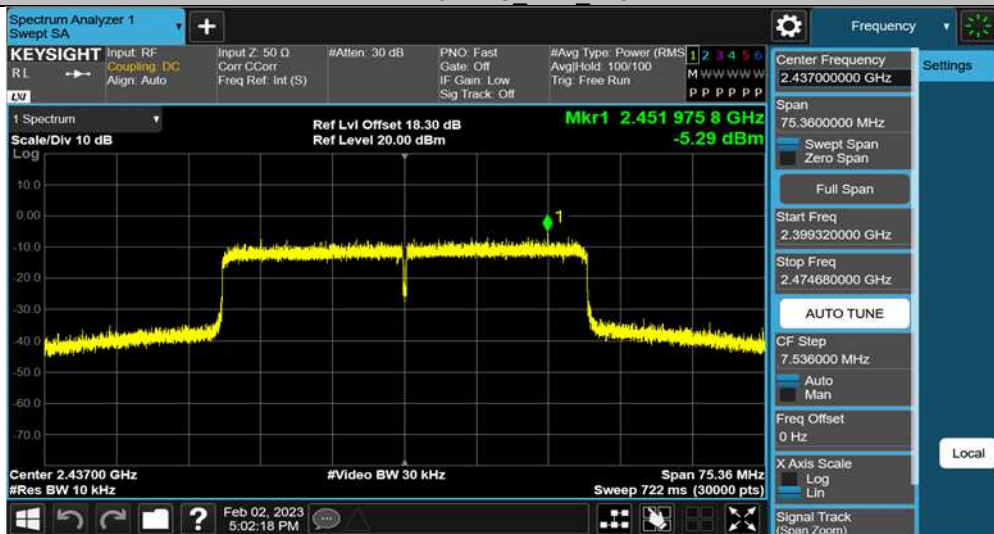
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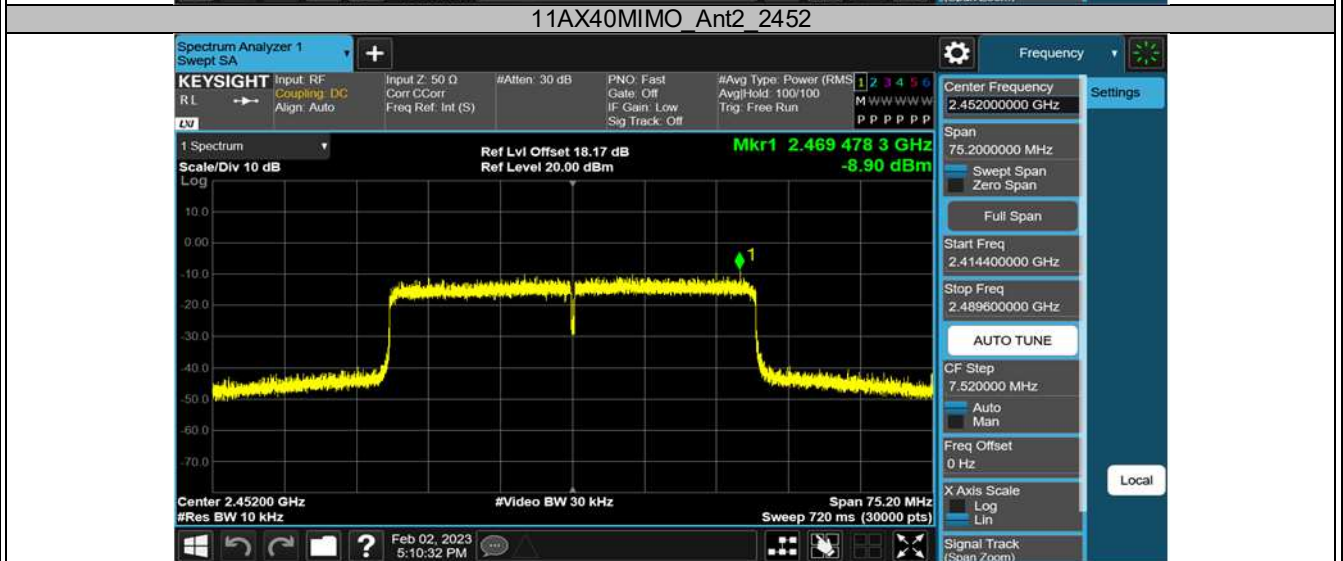
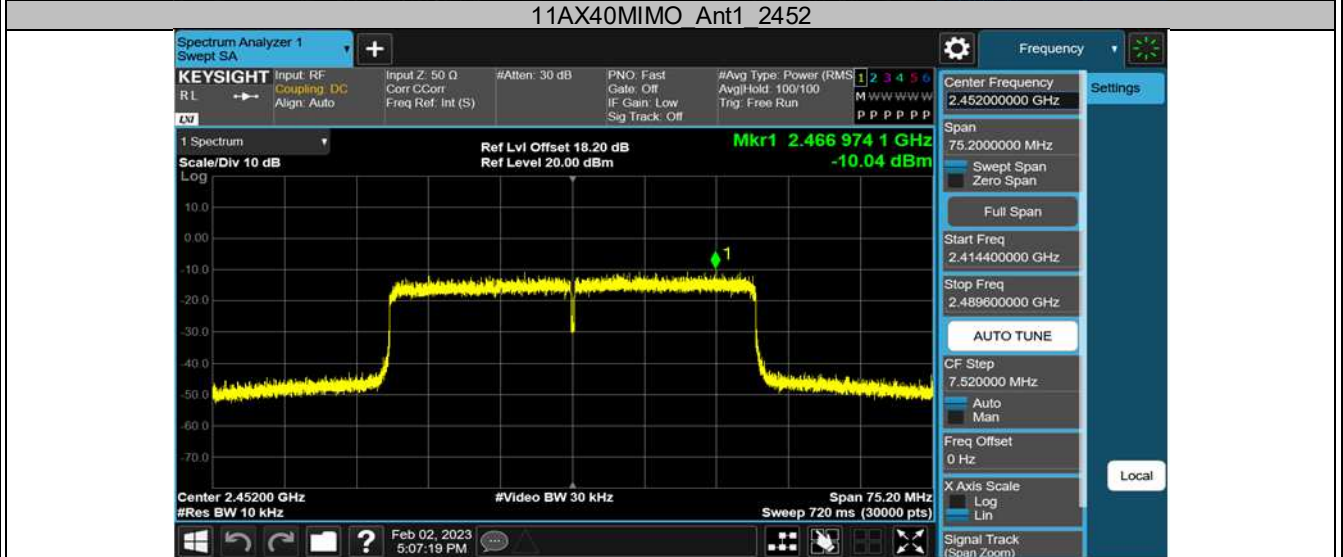


11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437





Appendix C.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	7.080	2408.480	2415.560	0.5	PASS
	Ant2	2412	6.600	2408.960	2415.560	0.5	PASS
	Ant1	2437	8.080	2432.960	2441.040	0.5	PASS
	Ant2	2437	8.080	2432.960	2441.040	0.5	PASS
	Ant1	2462	8.520	2457.960	2466.480	0.5	PASS
	Ant2	2462	6.640	2458.920	2465.560	0.5	PASS
11G-CDD	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant2	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
	Ant2	2462	16.360	2453.840	2470.200	0.5	PASS
11N20MIMO	Ant1	2412	17.120	2403.640	2420.760	0.5	PASS
	Ant2	2412	17.560	2403.200	2420.760	0.5	PASS
	Ant1	2437	17.320	2428.440	2445.760	0.5	PASS
	Ant2	2437	17.560	2428.200	2445.760	0.5	PASS
	Ant1	2462	17.560	2453.200	2470.760	0.5	PASS
	Ant2	2462	17.600	2453.200	2470.800	0.5	PASS
11N40MIMO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
	Ant2	2422	36.320	2403.840	2440.160	0.5	PASS
	Ant1	2437	36.400	2418.840	2455.240	0.5	PASS
	Ant2	2437	36.320	2418.840	2455.160	0.5	PASS
	Ant1	2452	36.320	2433.840	2470.160	0.5	PASS
	Ant2	2452	36.320	2433.840	2470.160	0.5	PASS
11AX20MIMO	Ant1	2412	18.600	2402.640	2421.240	0.5	PASS
	Ant2	2412	18.120	2403.200	2421.320	0.5	PASS
	Ant1	2437	18.200	2428.280	2446.480	0.5	PASS
	Ant2	2437	18.160	2428.200	2446.360	0.5	PASS
	Ant1	2462	18.520	2452.880	2471.400	0.5	PASS
	Ant2	2462	16.920	2454.440	2471.360	0.5	PASS
11AX40MIMO	Ant1	2422	37.600	2403.200	2440.800	0.5	PASS
	Ant2	2422	37.600	2403.200	2440.800	0.5	PASS
	Ant1	2437	37.680	2418.200	2455.880	0.5	PASS
	Ant2	2437	37.520	2418.200	2455.720	0.5	PASS
	Ant1	2452	37.600	2433.200	2470.800	0.5	PASS
	Ant2	2452	37.600	2433.200	2470.800	0.5	PASS

11B-CDD Ant1 2412



11B-CDD Ant2 2412



11B-CDD Ant1 2437



11B-CDD Ant2_2437



11B-CDD Ant1_2462



11B-CDD Ant2_2462



11G-CDD Ant1 2412



11G-CDD Ant2 2412



11G-CDD Ant1 2437



11G-CDD Ant2_2437



11G-CDD Ant1_2462



11G-CDD Ant2_2462



11N20MIMO Ant1 2412



11N20MIMO Ant2 2412



11N20MIMO Ant1 2437



11N20MIMO Ant2 2437



11N20MIMO Ant1 2462



11N20MIMO Ant2 2462



11N40MIMO Ant1 2422



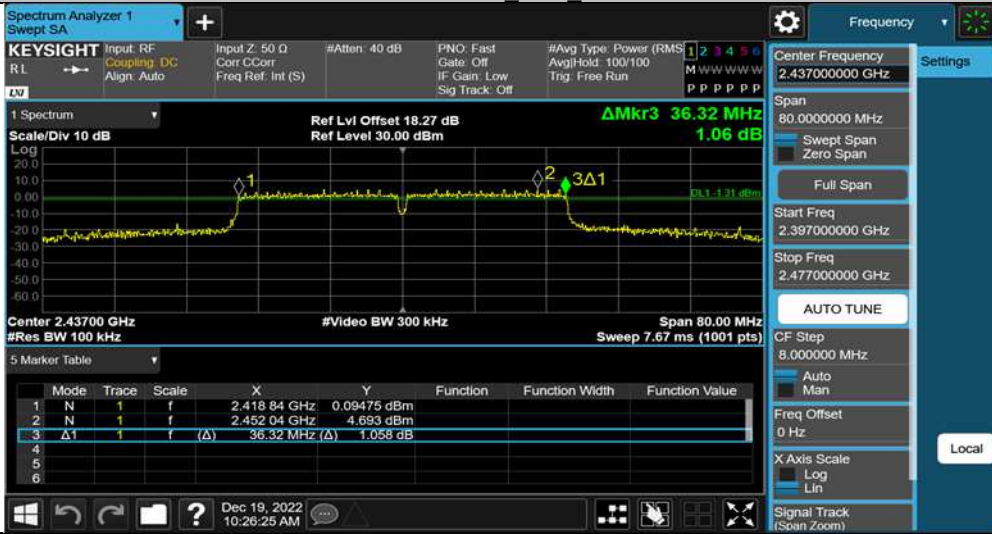
11N40MIMO Ant2 2422



11N40MIMO Ant1 2437



11N40MIMO Ant2 2437



11N40MIMO Ant1 2452



11N40MIMO Ant2 2452



11AX20MIMO_Ant1_2412



11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437





11AX40MIMO_Ant1_2422



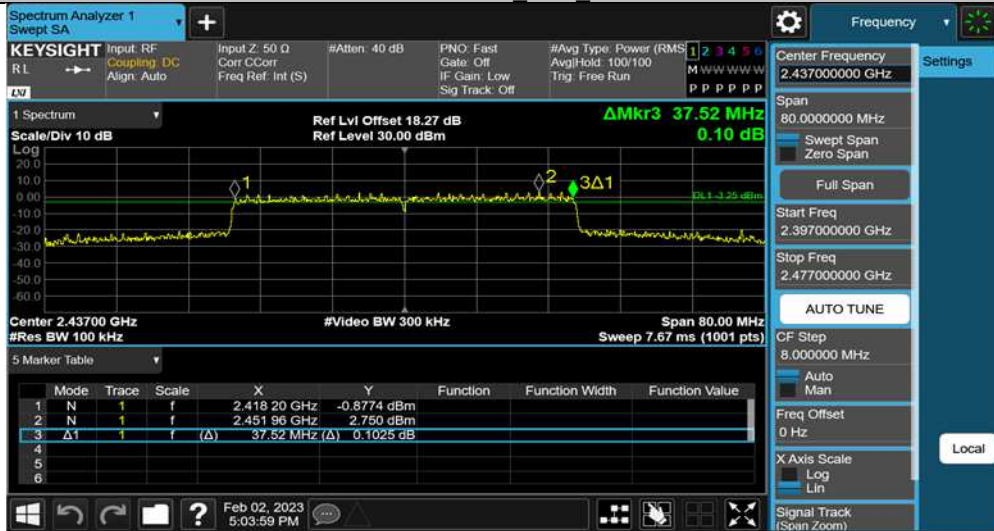
11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



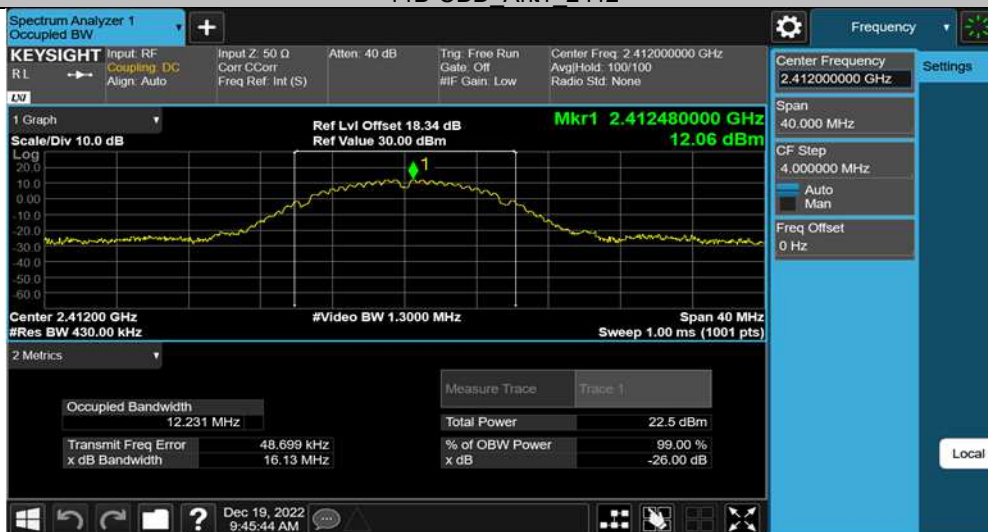
11AX40MIMO_Ant2_2452



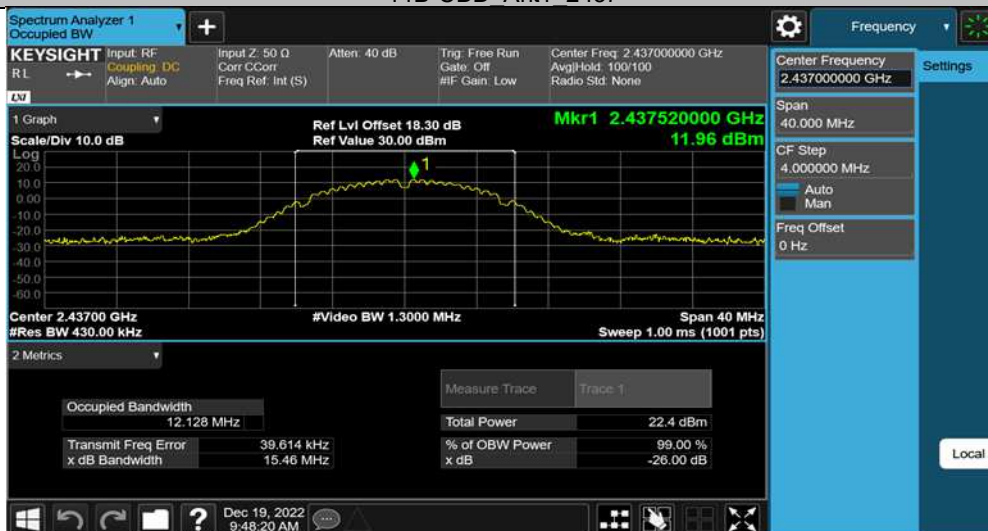
Appendix C.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	12.231	2405.9332	2418.1642	---	PASS
		2437	12.128	2430.9756	2443.1036	---	PASS
		2462	12.066	2456.0081	2468.0741	---	PASS
11G-CDD	Ant1	2412	17.277	2403.4223	2420.6993	---	PASS
		2437	17.475	2428.3587	2445.8337	---	PASS
		2462	17.296	2453.3829	2470.6789	---	PASS
11N20MIMO	Ant1	2412	18.318	2402.8971	2421.2151	---	PASS
		2437	18.361	2427.8716	2446.2326	---	PASS
		2462	18.355	2452.8802	2471.2352	---	PASS
11N40MIMO	Ant1	2422	36.718	2403.7591	2440.4771	---	PASS
		2437	37.035	2418.5935	2455.6285	---	PASS
		2452	36.744	2433.7205	2470.4645	---	PASS
11AX20MIMO	Ant1	2412	19.033	2402.5167	2421.5497	---	PASS
		2437	19.082	2427.5296	2446.6116	---	PASS
		2462	19.059	2452.5037	2471.5627	---	PASS
11AX40MIMO	Ant1	2422	37.829	2403.2063	2441.0353	---	PASS
		2437	37.833	2418.1444	2455.9774	---	PASS
		2452	37.729	2433.2276	2470.9566	---	PASS

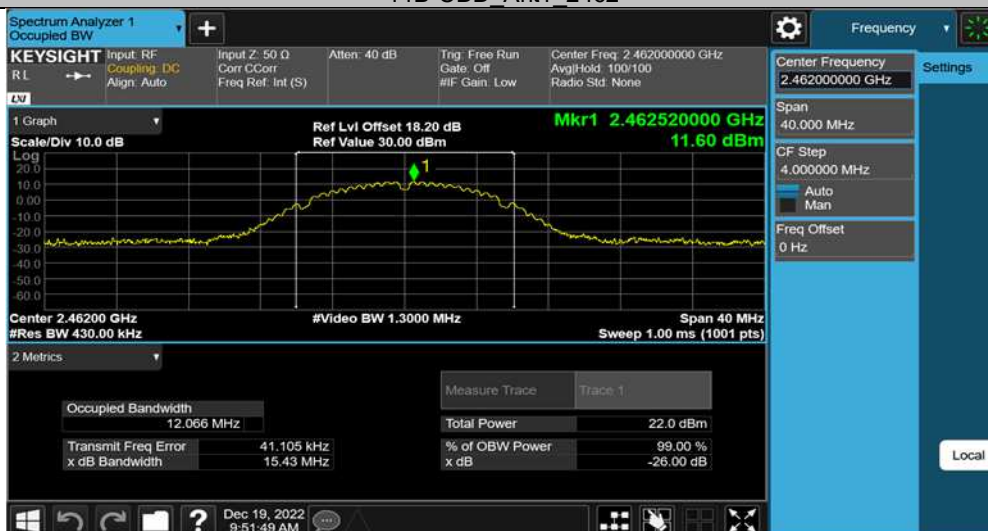
11B-CDD Ant1 2412



11B-CDD Ant1 2437



11B-CDD Ant1 2462



11G-CDD Ant1 2412



11G-CDD Ant1 2437



11G-CDD Ant1 2462



11N20MIMO Ant1 2412



11N20MIMO Ant1 2437



11N20MIMO Ant1 2462



11N40MIMO Ant1 2422



11N40MIMO Ant1 2437



11N40MIMO Ant1 2452



11AX20MIMO_Ant1_2412



11AX20MIMO_Ant1_2437



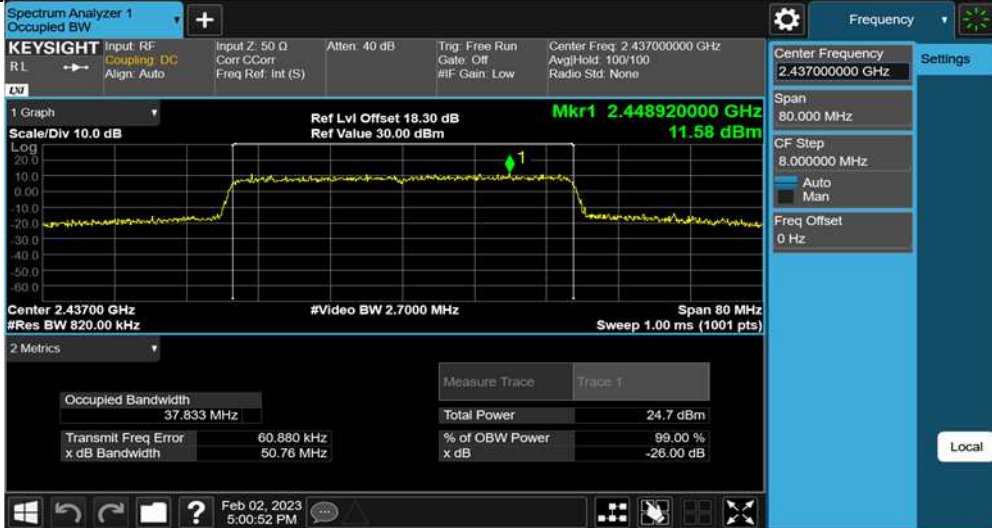
11AX20MIMO_Ant1_2462



11AX40MIMO_Ant1_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant1_2452



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

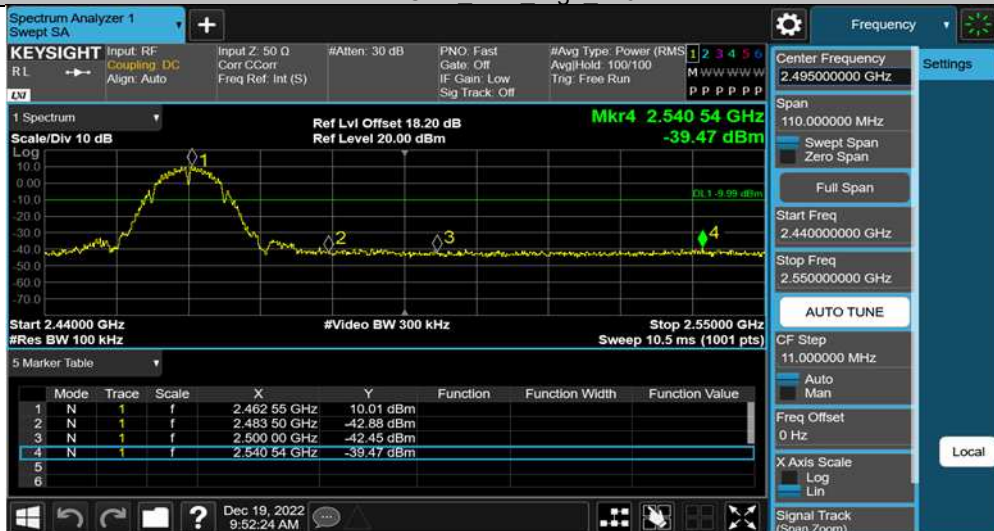
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	11.02	-32.9	≤-8.98	PASS
		High	2462	10.01	-39.47	≤-9.99	PASS
11G-CDD	Ant1	Low	2412	5.58	-25.1	≤-14.42	PASS
		High	2462	3.44	-39.34	≤-16.56	PASS
11N20MIMO	Ant1	Low	2412	5.61	-24.34	≤-14.39	PASS
		High	2462	4.98	-33.39	≤-15.02	PASS
11N40MIMO	Ant1	Low	2422	-0.86	-32.7	≤-20.86	PASS
		High	2452	-1.25	-32.48	≤-21.25	PASS
11AX20MIMO	Ant1	Low	2412	4.95	-25.31	≤-15.05	PASS
		High	2462	5.16	-32.36	≤-14.84	PASS
11AX40MIMO	Ant1	Low	2422	-1.67	-33.89	≤-21.67	PASS
		High	2452	-1.72	-33.03	≤-21.72	PASS

11B-CDD Ant1 Low 2412



11B-CDD Ant1 High 2462



11G-CDD Ant1 Low 2412



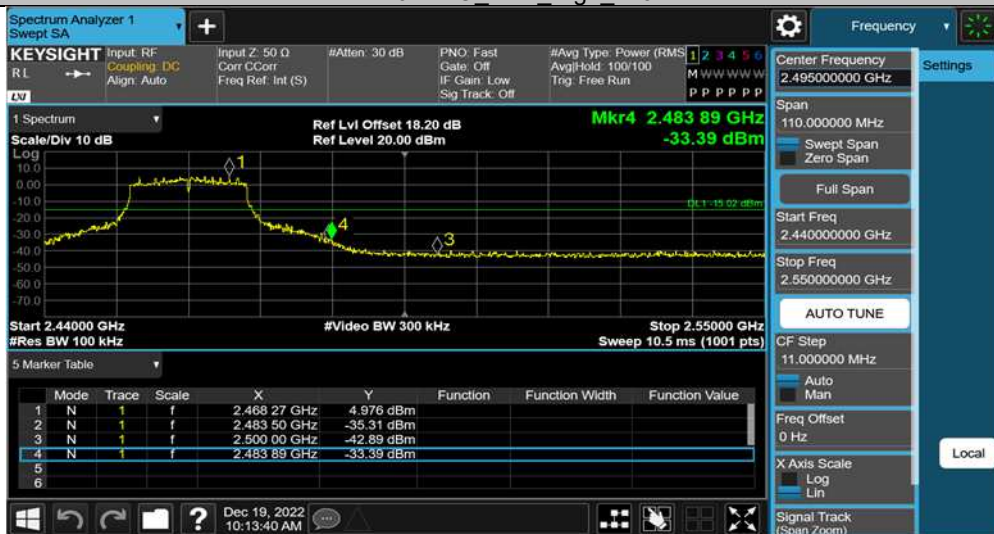
11G-CDD Ant1 High 2462



11N20MIMO Ant1 Low 2412



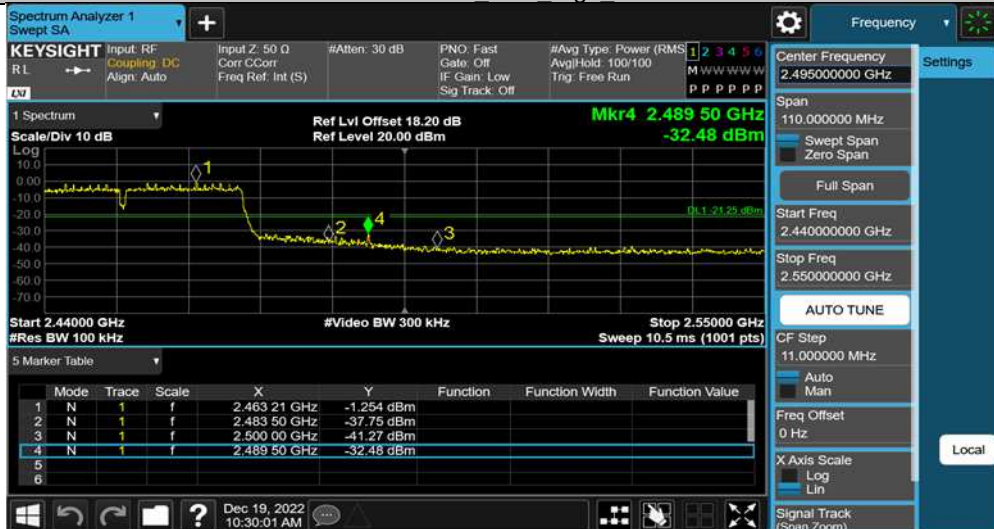
11N20MIMO Ant1 High 2462



11N40MIMO Ant1 Low 2422



11N40MIMO Ant1 High 2452



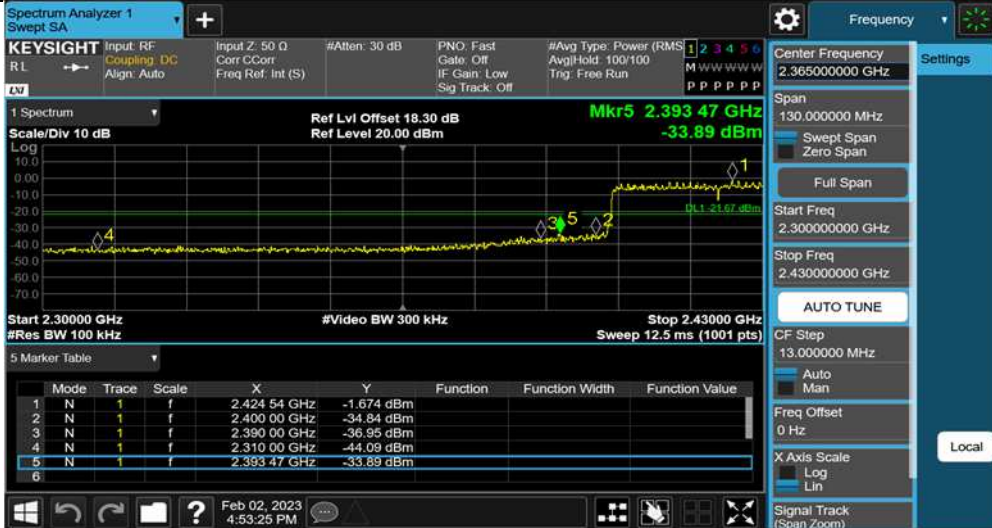
11AX20MIMO Ant1 Low 2412



11AX20MIMO Ant1 High 2462



11AX40MIMO Ant1 Low 2422



11AX40MIMO Ant1 High 2452



Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	Reference	9.53	9.53	---	PASS
			30~1000	9.53	-42.38	≤-20.47	PASS
			1000~26500	9.53	-32.51	≤-20.47	PASS
		2437	Reference	9.59	9.59	---	PASS
			30~1000	9.59	-42.05	≤-20.41	PASS
			1000~26500	9.59	-32.5	≤-20.41	PASS
		2462	Reference	8.07	8.07	---	PASS
			30~1000	8.07	-41.41	≤-21.93	PASS
			1000~26500	8.07	-32.31	≤-21.93	PASS
11G-CDD	Ant1	2412	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-42.16	≤-26.1	PASS
			1000~26500	3.90	-32.3	≤-26.1	PASS
		2437	Reference	4.06	4.06	---	PASS
			30~1000	4.06	-41.85	≤-25.94	PASS
			1000~26500	4.06	-32.23	≤-25.94	PASS
		2462	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-42	≤-28.1	PASS
			1000~26500	1.90	-32.67	≤-28.1	PASS
11N20MIMO	Ant1	2412	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-41.91	≤-25.31	PASS
			1000~26500	4.69	-32.89	≤-25.31	PASS
		2437	Reference	5.81	5.81	---	PASS
			30~1000	5.81	-41.58	≤-24.19	PASS
			1000~26500	5.81	-32.68	≤-24.19	PASS
		2462	Reference	4.52	4.52	---	PASS
			30~1000	4.52	-41.98	≤-25.48	PASS
			1000~26500	4.52	-33.19	≤-25.48	PASS
11N40MIMO	Ant1	2422	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-42.06	≤-31.75	PASS
			1000~26500	-1.75	-32.53	≤-31.75	PASS
		2437	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-42.28	≤-27.3	PASS
			1000~26500	2.70	-31.97	≤-27.3	PASS
		2452	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-42.07	≤-31.1	PASS
			1000~26500	-1.10	-32.77	≤-31.1	PASS
11AX20MIMO	Ant1	2412	Reference	4.55	4.55	---	PASS
			30~1000	4.55	-41.56	≤-15.45	PASS
			1000~26500	4.55	-32.77	≤-15.45	PASS
		2437	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-42.01	≤-15.43	PASS
			1000~26500	4.57	-32.2	≤-15.43	PASS
		2462	Reference	2.21	2.21	---	PASS
			30~1000	2.21	-41.21	≤-17.79	PASS
			1000~26500	2.21	-32.21	≤-17.79	PASS
11AX40MIMO	Ant1	2422	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-41.84	≤-22.11	PASS
			1000~26500	-2.11	-32.35	≤-22.11	PASS
		2437	Reference	1.60	1.60	---	PASS
			30~1000	1.60	-41.44	≤-18.4	PASS
			1000~26500	1.60	-32.5	≤-18.4	PASS
		2452	Reference	-2.79	-2.79	---	PASS
			30~1000	-2.79	-41.41	≤-22.79	PASS
			1000~26500	-2.79	-32.39	≤-22.79	PASS

11B-CDD Ant1_2412_0~Reference



11B-CDD Ant1_2412_30~1000



11B-CDD Ant1_2412_1000~26500



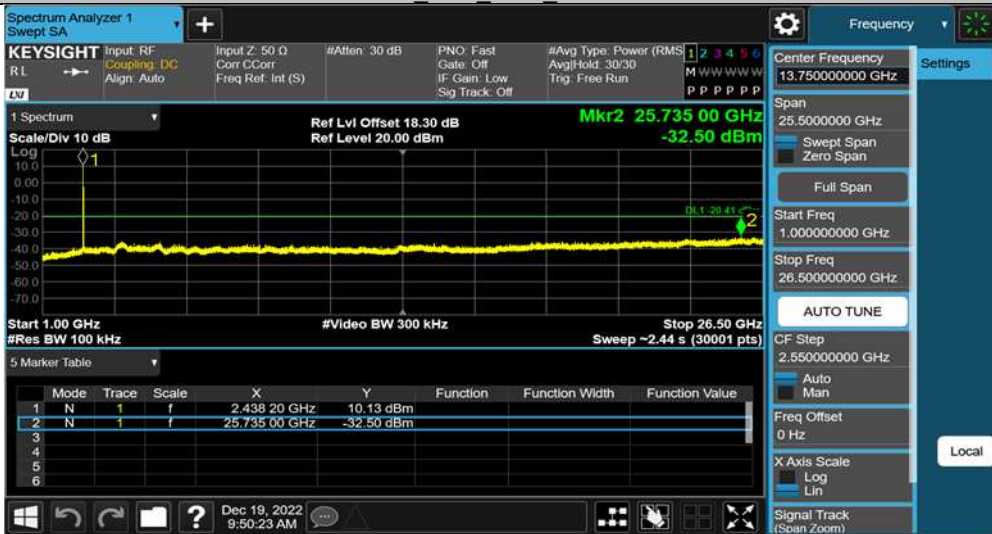
11B-CDD Ant1_2437_0~Reference



11B-CDD Ant1_2437_30~1000



11B-CDD Ant1_2437_1000~26500



11B-CDD Ant1_2462_0~Reference



11B-CDD Ant1_2462_30~1000



11B-CDD Ant1_2462_1000~26500

