

Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: 4K Set Top Box

Trade Mark: Homatics

Test Model: SX6BHET

FCC ID: 2AOVU-SX6BHET

Environmental Conditions

Temperature:	23.4℃
Relative Humidity:	49%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

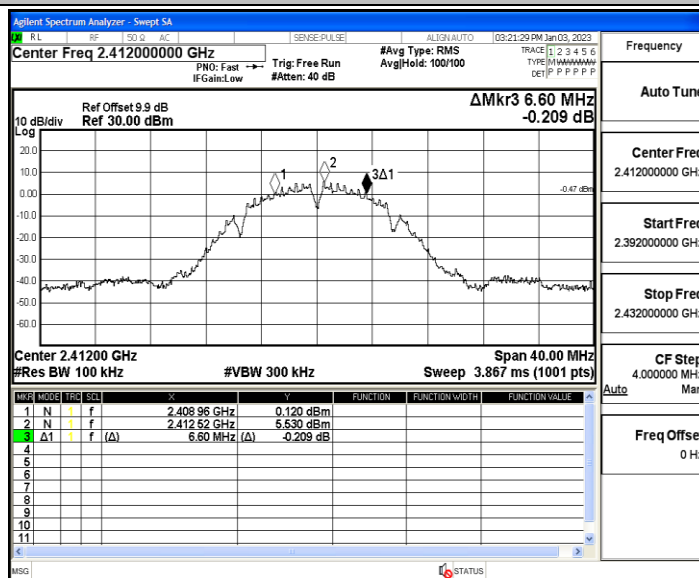
Appendix A: DTS Bandwidth

Test Result

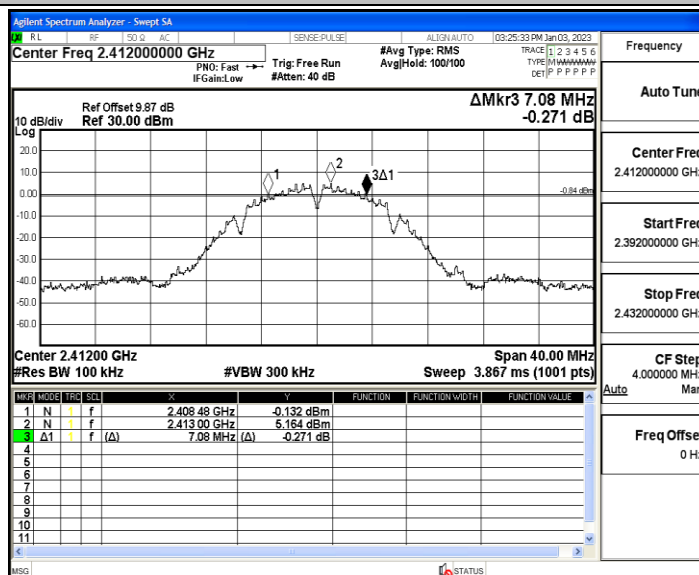
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	6.600	2408.960	2415.560	0.5	PASS
	Ant2	2412	7.080	2408.480	2415.560	0.5	PASS
	Ant1	2437	8.080	2432.960	2441.040	0.5	PASS
	Ant2	2437	7.560	2433.440	2441.000	0.5	PASS
	Ant1	2462	7.520	2458.480	2466.000	0.5	PASS
	Ant2	2462	7.560	2458.480	2466.040	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant1	2437	16.280	2428.880	2445.160	0.5	PASS
	Ant2	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant1	2462	16.360	2453.840	2470.200	0.5	PASS
	Ant2	2462	16.400	2453.840	2470.240	0.5	PASS
11N20MIMO	Ant1	2412	17.720	2403.160	2420.880	0.5	PASS
	Ant2	2412	17.760	2403.120	2420.880	0.5	PASS
	Ant1	2437	17.720	2428.160	2445.880	0.5	PASS
	Ant2	2437	17.720	2428.160	2445.880	0.5	PASS
	Ant1	2462	17.720	2453.160	2470.880	0.5	PASS
	Ant2	2462	17.680	2453.160	2470.840	0.5	PASS
11AX20MIMO	Ant1	2412	19.040	2402.520	2421.560	0.5	PASS
	Ant2	2412	19.080	2402.480	2421.560	0.5	PASS
	Ant1	2437	19.000	2427.520	2446.520	0.5	PASS
	Ant2	2437	18.960	2427.560	2446.520	0.5	PASS
	Ant1	2462	19.040	2452.480	2471.520	0.5	PASS
	Ant2	2462	19.120	2452.440	2471.560	0.5	PASS

Test Graphs

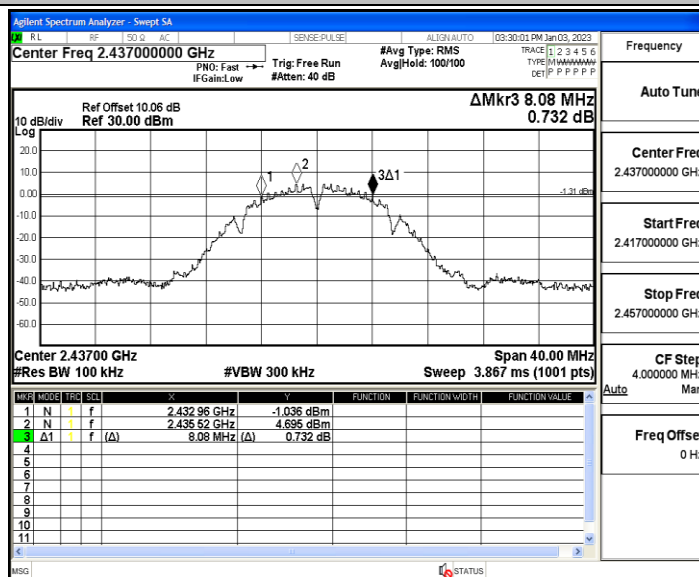
11B_Ant1_2412



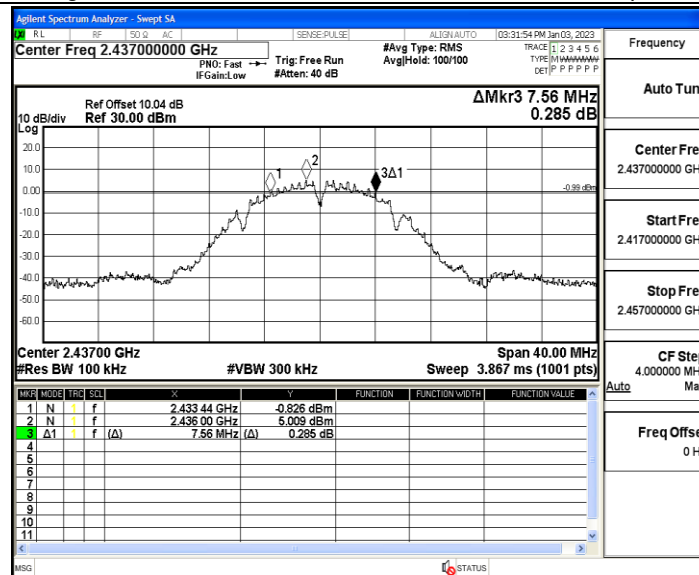
11B_Ant2_2412



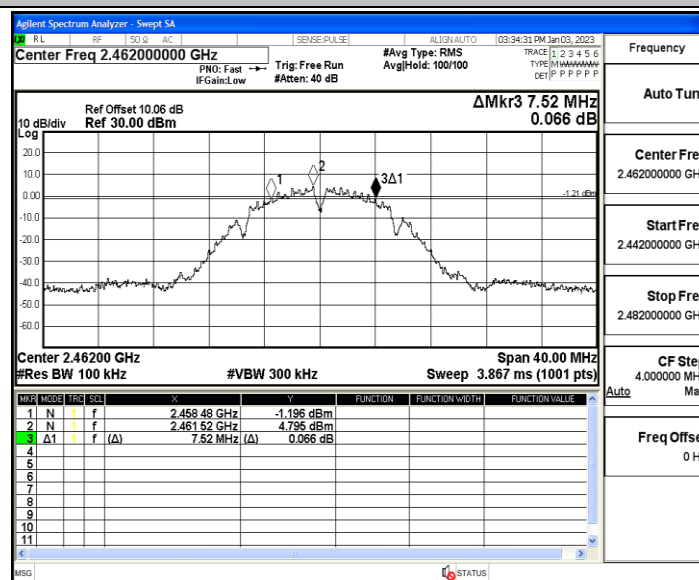
11B_Ant1_2437



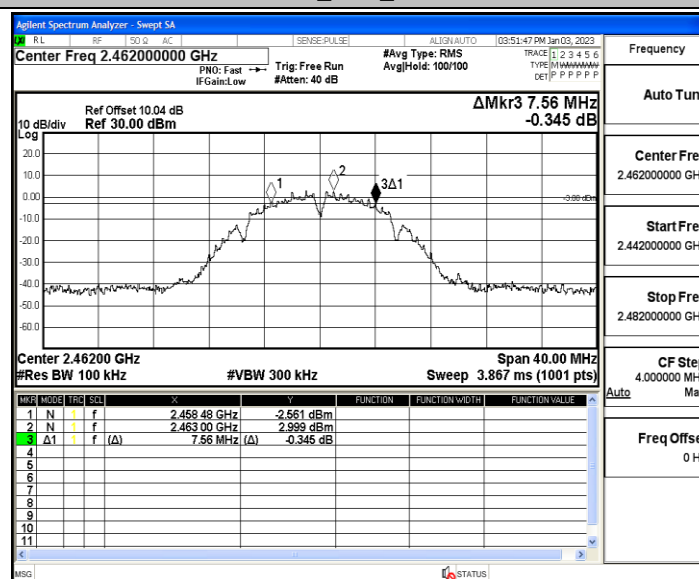
11B_Ant2_2437



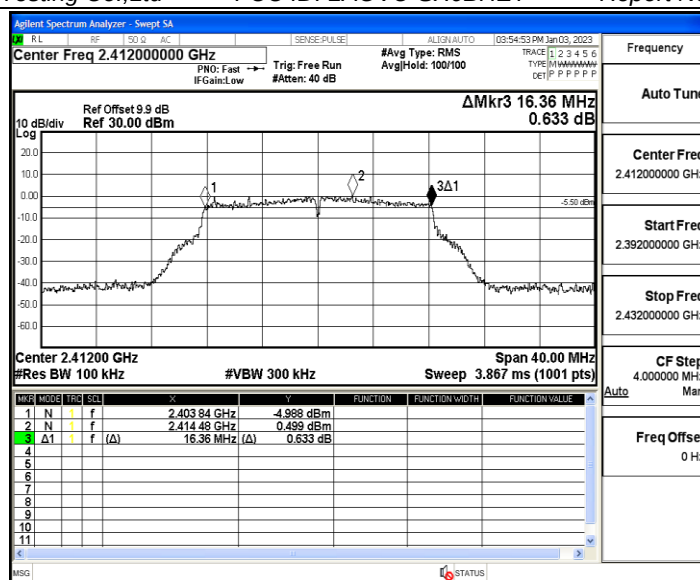
11B_Ant1_2462



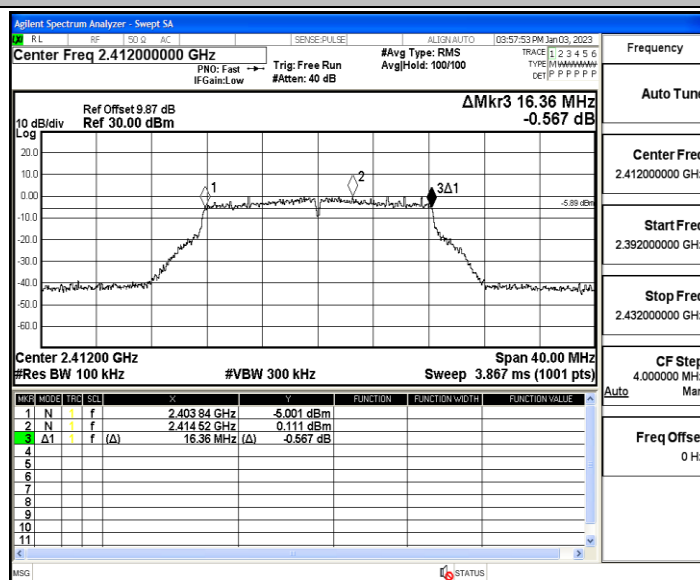
11B_Ant2_2462



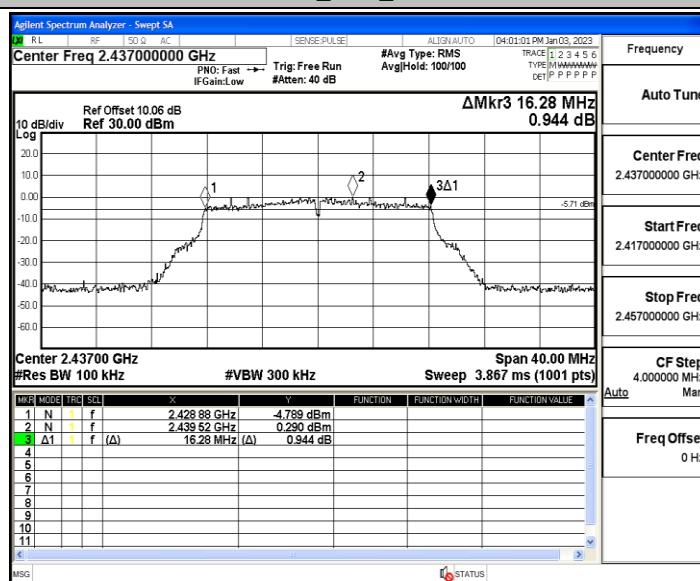
11G_Ant1_2412



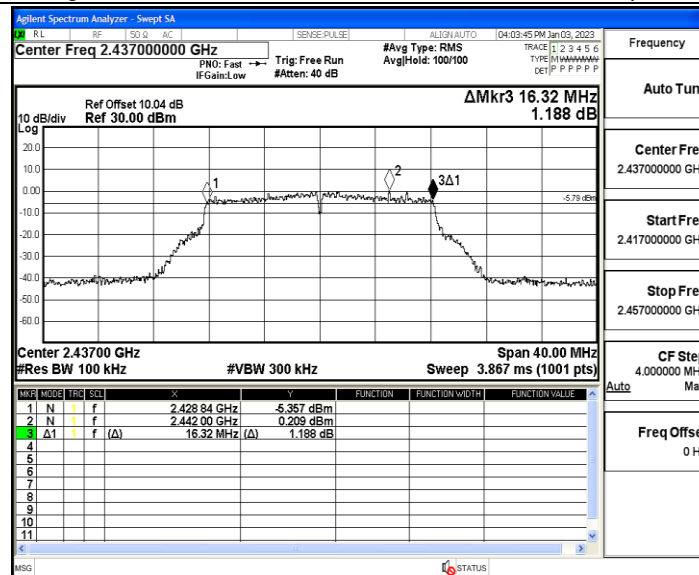
11G_Ant2_2412



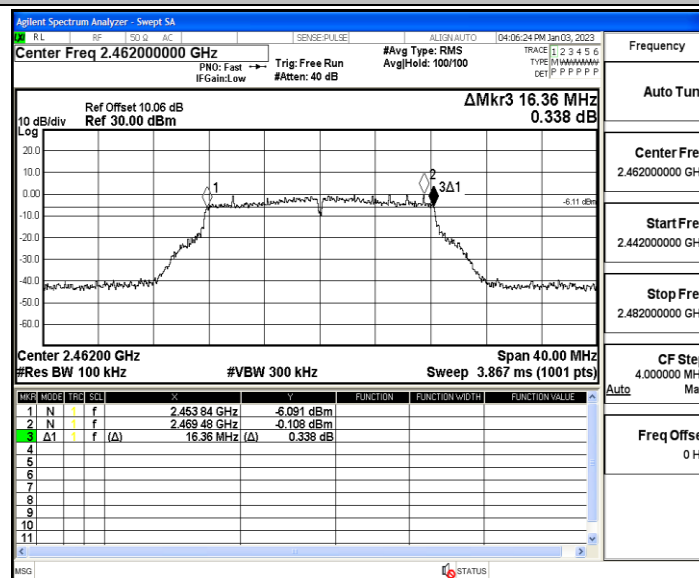
11G_Ant1_2437



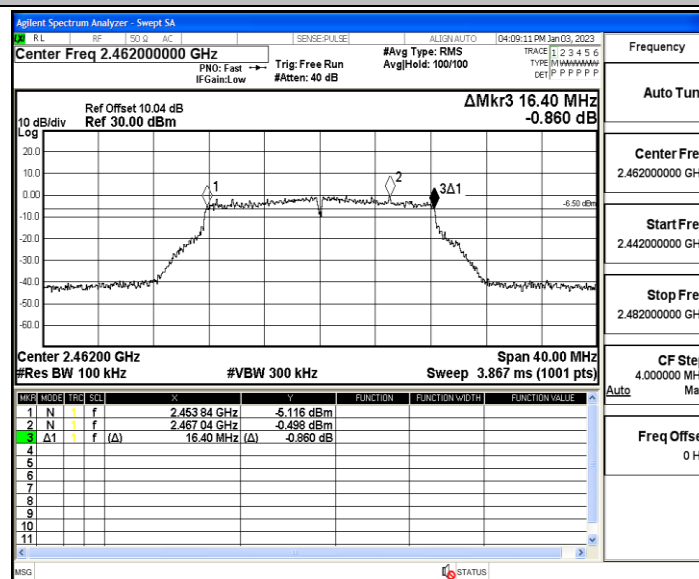
11G_Ant2_2437



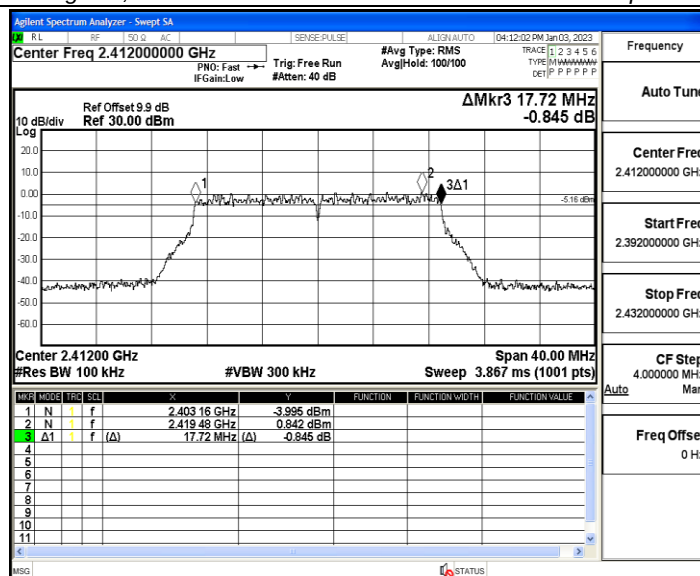
11G_Ant1_2462



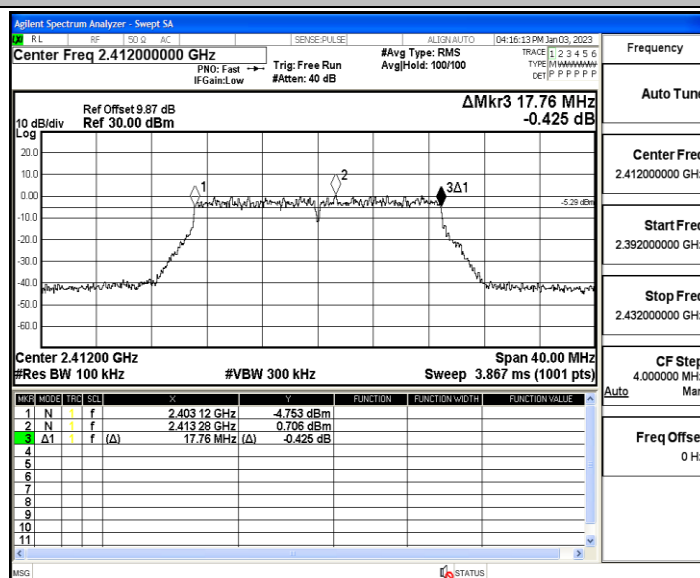
11G_Ant2_2462



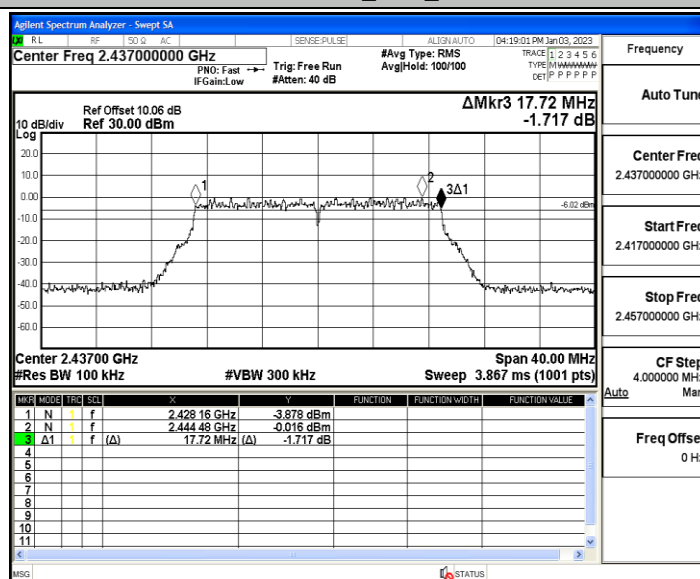
11N20MIMO_Ant1_2412



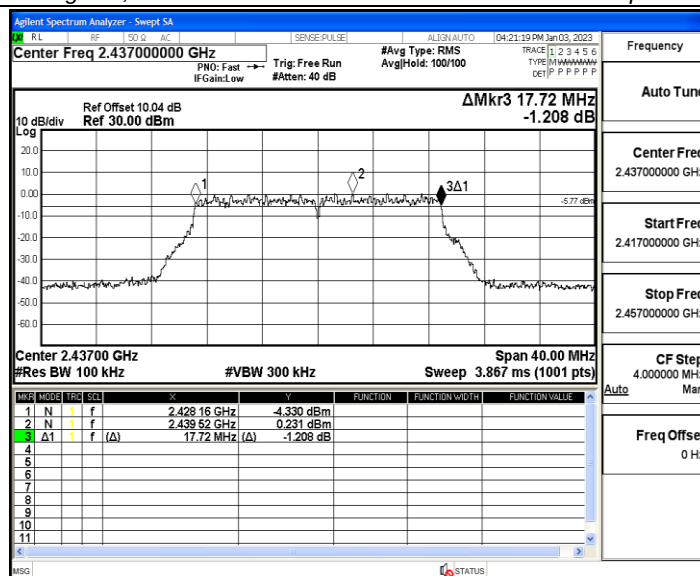
11N20MIMO_Ant2_2412



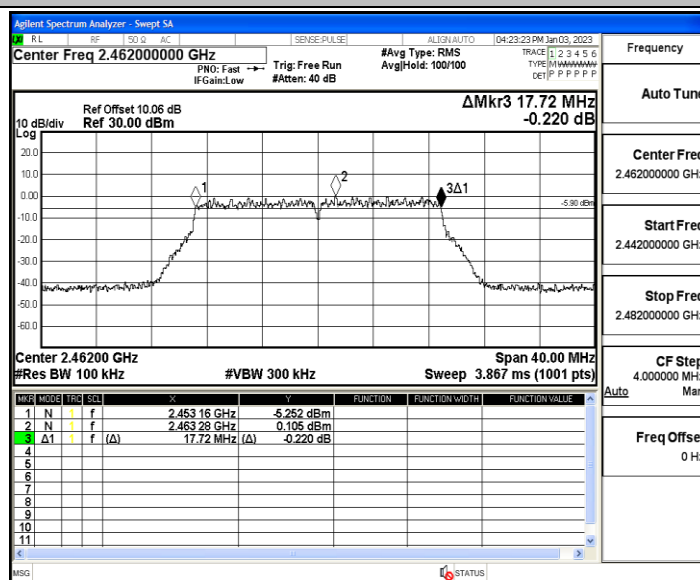
11N20MIMO_Ant1_2437



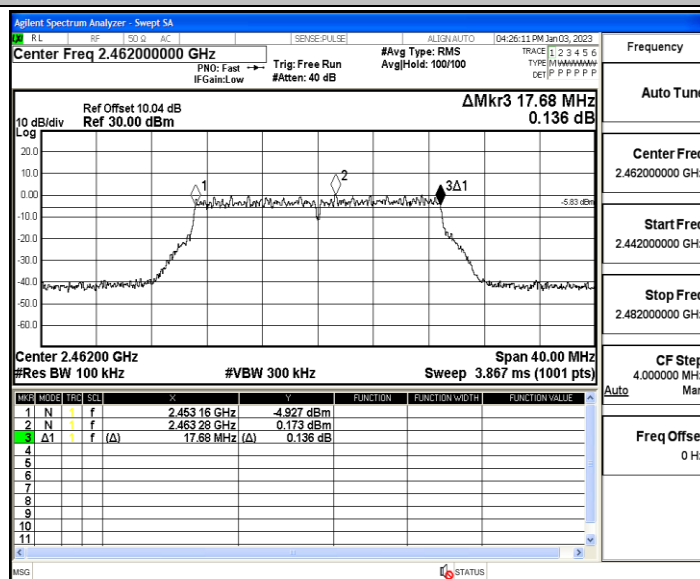
11N20MIMO_Ant2_2437



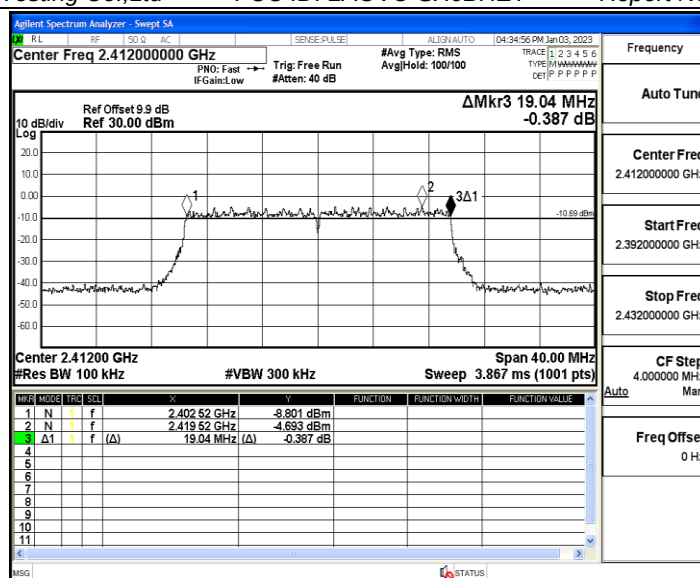
11N20MIMO_Ant1_2462



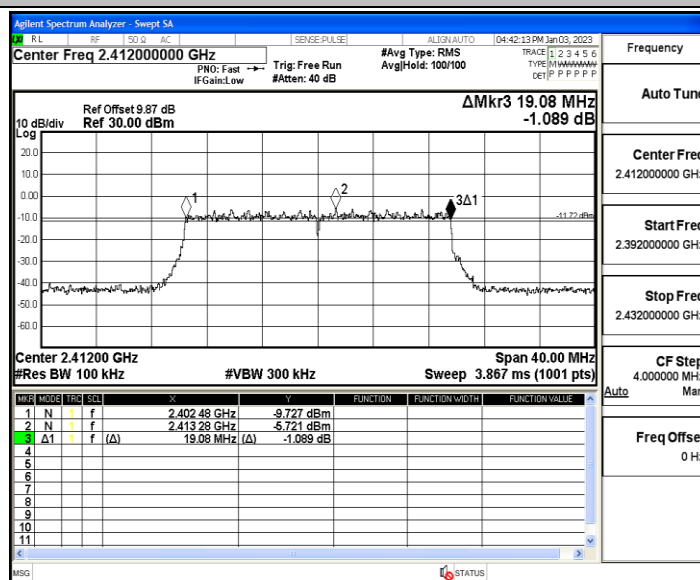
11N20MIMO_Ant2_2462



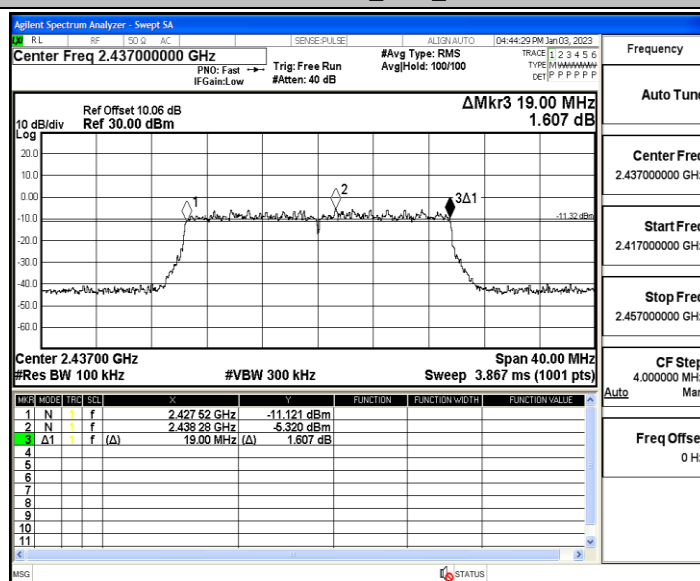
11AX20MIMO_Ant1_2412



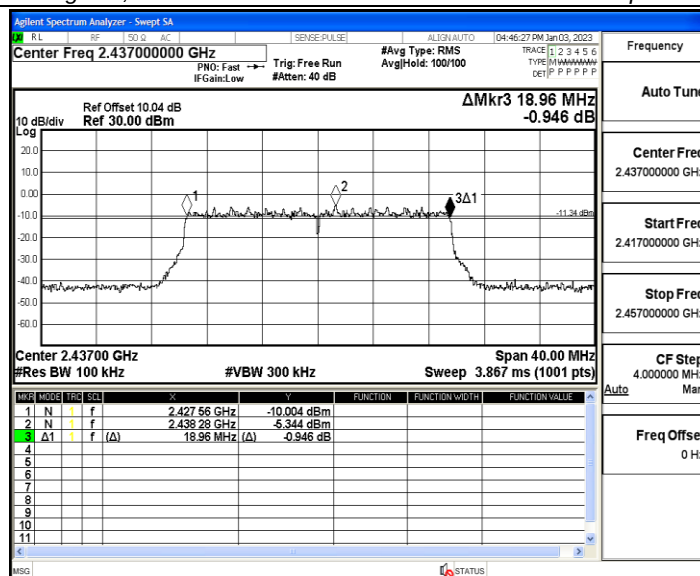
11AX20MIMO_Ant2_2412



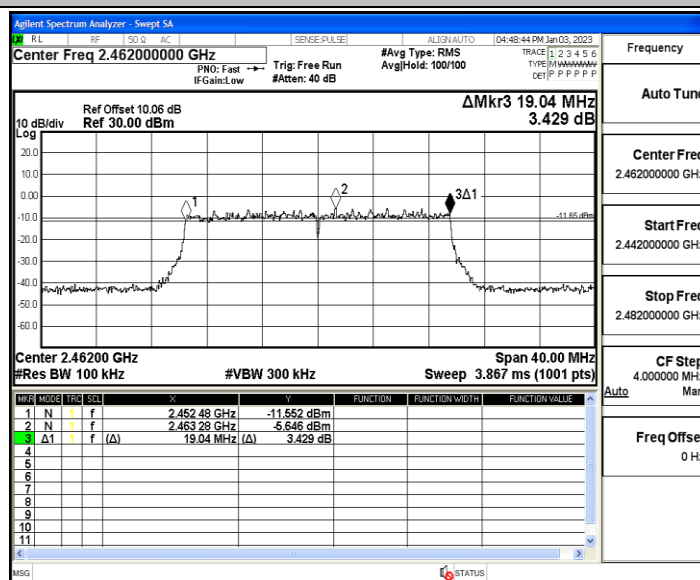
11AX20MIMO_Ant1_2437



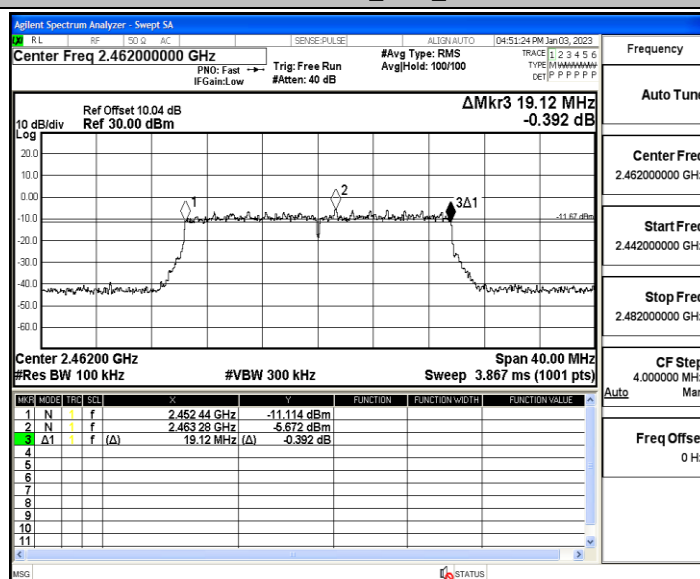
11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



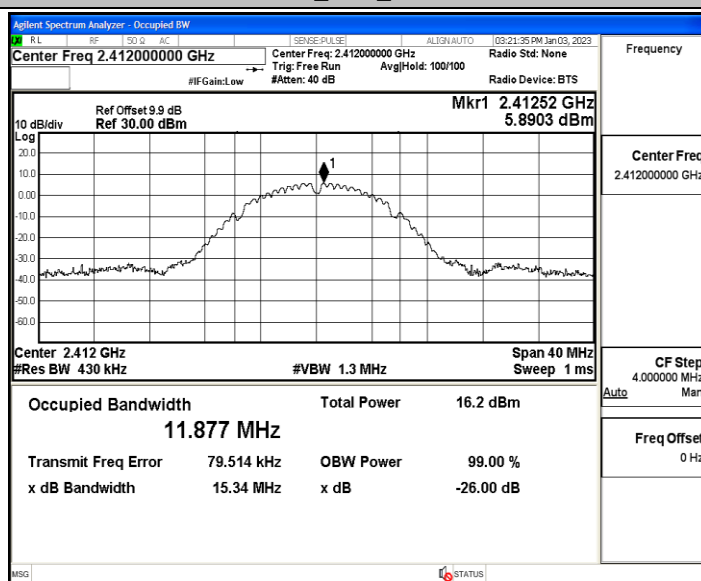
Appendix B: Occupied Channel Bandwidth

Test Result

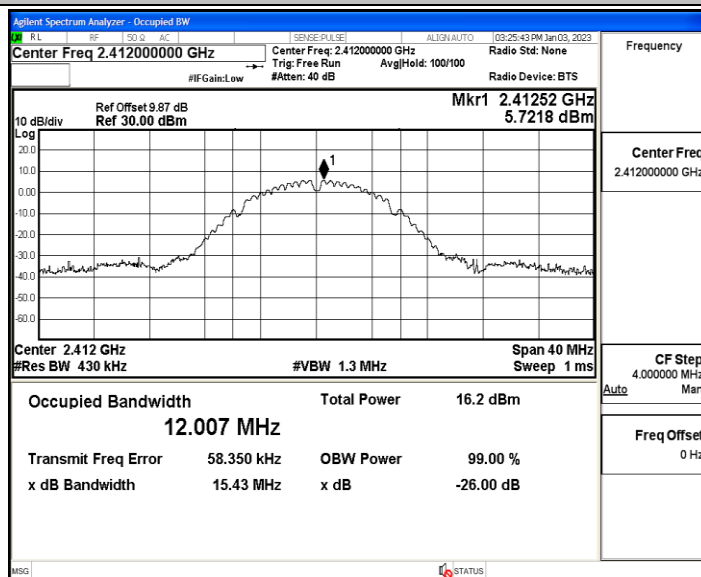
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.877	2406.1410	2418.0180	---	---
	Ant2	2412	12.007	2406.0549	2418.0619	---	---
	Ant1	2437	11.897	2431.1184	2443.0154	---	---
	Ant2	2437	12.010	2431.0501	2443.0601	---	---
	Ant1	2462	11.924	2456.1271	2468.0511	---	---
	Ant2	2462	11.932	2456.1108	2468.0428	---	---
11G	Ant1	2412	17.144	2403.4926	2420.6366	---	---
	Ant2	2412	17.150	2403.4581	2420.6081	---	---
	Ant1	2437	17.133	2428.5268	2445.6598	---	---
	Ant2	2437	17.276	2428.4167	2445.6927	---	---
	Ant1	2462	17.175	2453.4796	2470.6546	---	---
	Ant2	2462	17.226	2453.4301	2470.6561	---	---
11N20MIMO	Ant1	2412	18.193	2403.0033	2421.1963	---	---
	Ant2	2412	18.095	2403.0145	2421.1095	---	---
	Ant1	2437	18.169	2427.9880	2446.1570	---	---
	Ant2	2437	18.172	2427.9643	2446.1363	---	---
	Ant1	2462	18.132	2453.0150	2471.1470	---	---
	Ant2	2462	18.159	2452.9983	2471.1573	---	---
11AX20MIMO	Ant1	2412	19.165	2402.4387	2421.6037	---	---
	Ant2	2412	19.107	2402.5109	2421.6179	---	---
	Ant1	2437	19.136	2427.4924	2446.6284	---	---
	Ant2	2437	19.143	2427.4576	2446.6006	---	---
	Ant1	2462	19.143	2452.4865	2471.6295	---	---
	Ant2	2462	19.219	2452.4577	2471.6767	---	---

Test Graphs

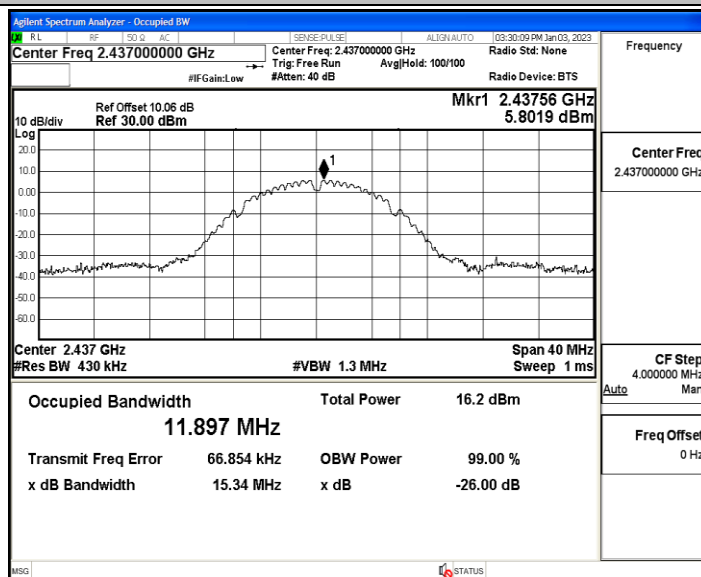
11B_Ant1_2412



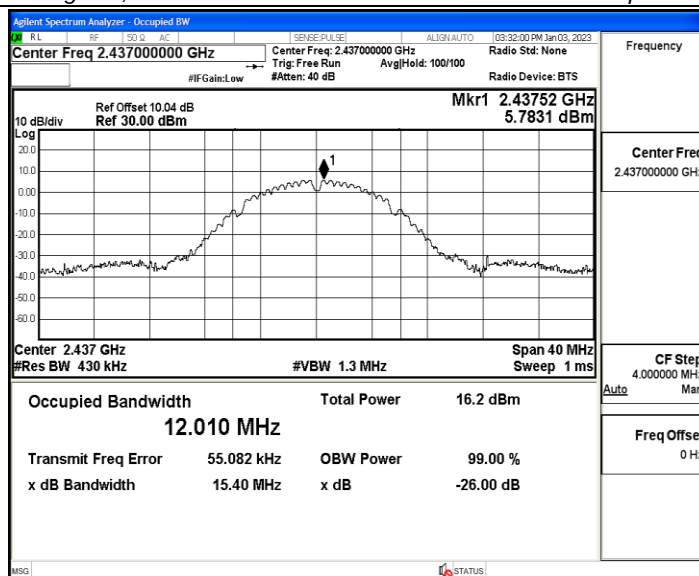
11B_Ant2_2412



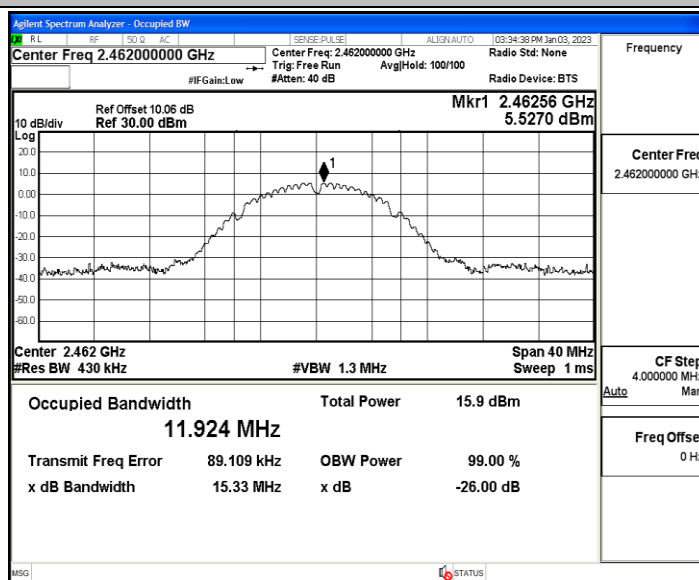
11B_Ant1_2437



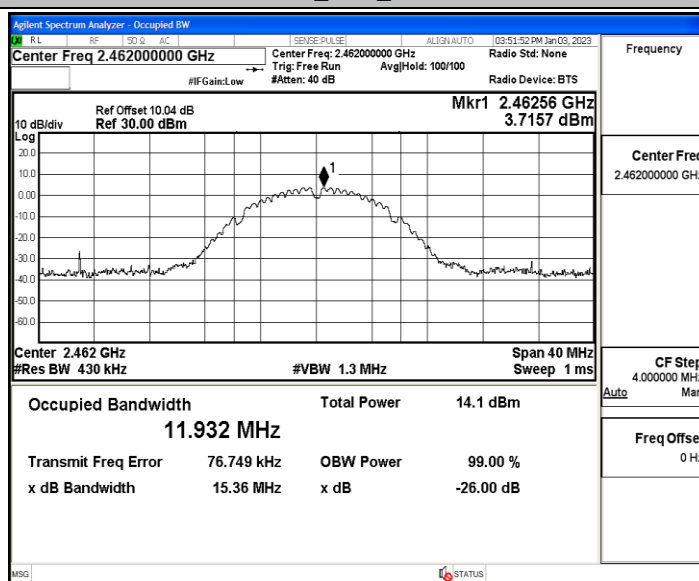
11B_Ant2_2437



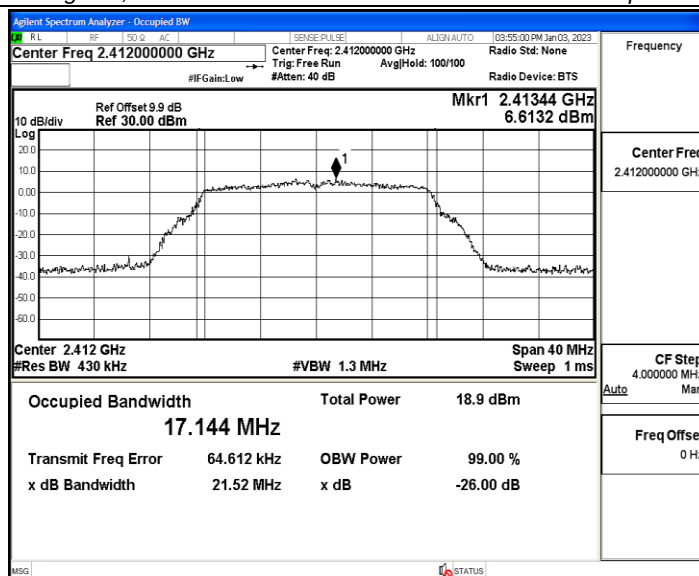
11B_Ant1_2462



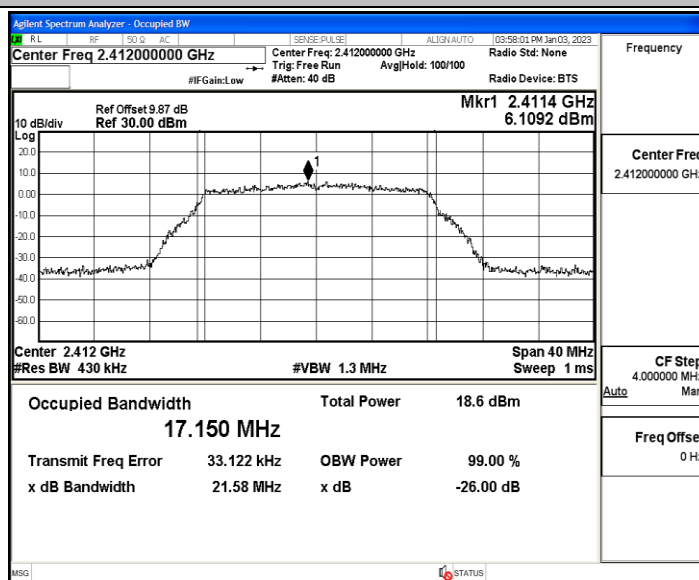
11B_Ant2_2462



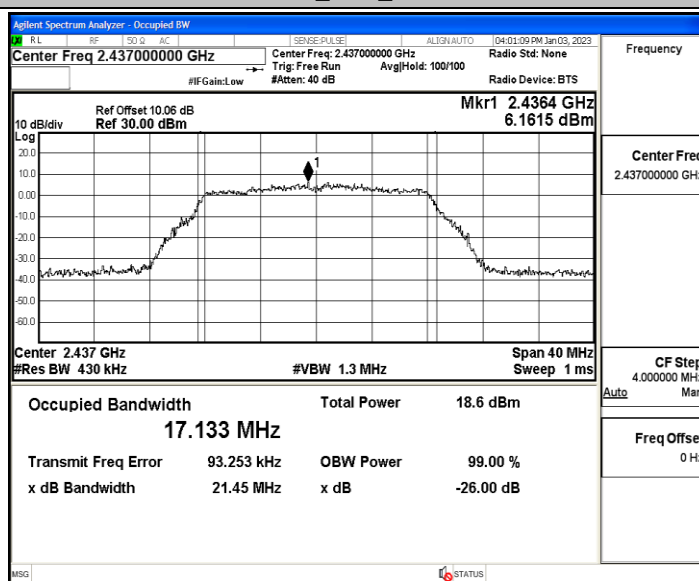
11G_Ant1_2412



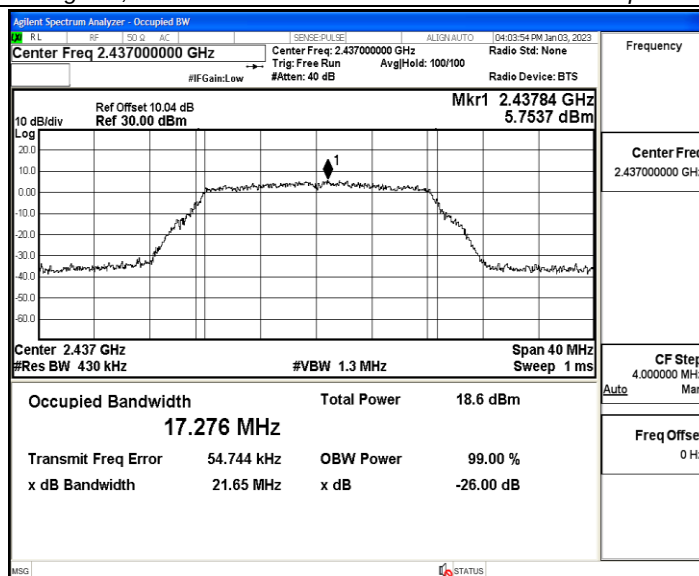
11G_Ant2_2412



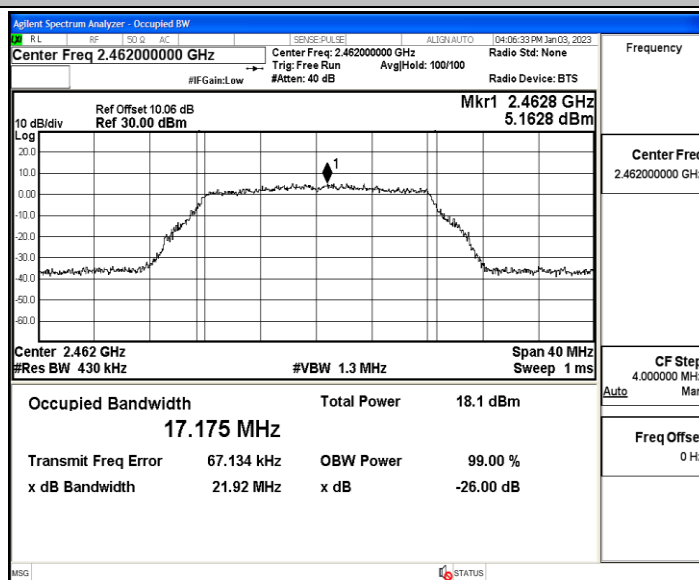
11G_Ant1_2437



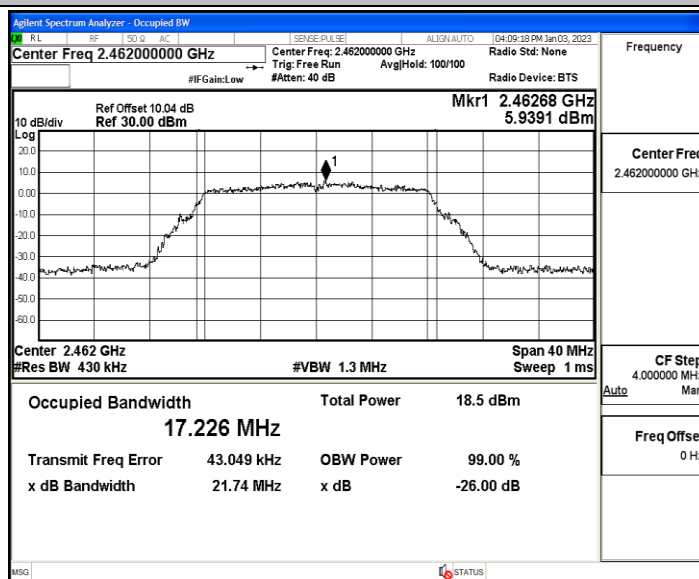
11G_Ant2_2437



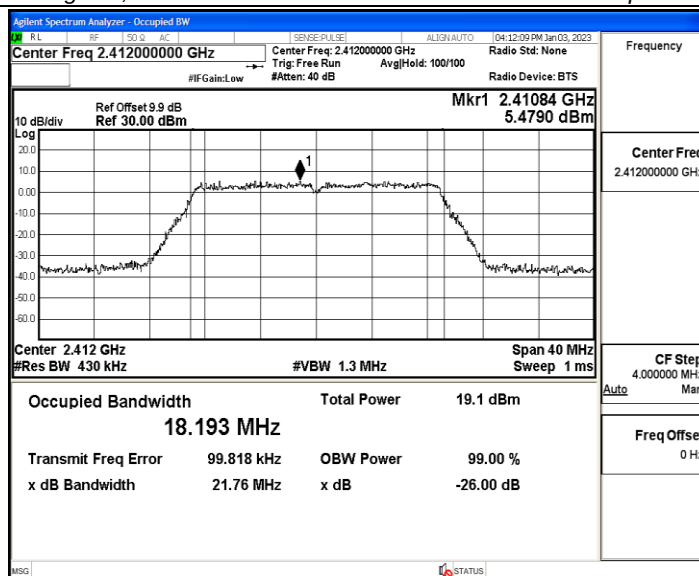
11G_Ant1_2462



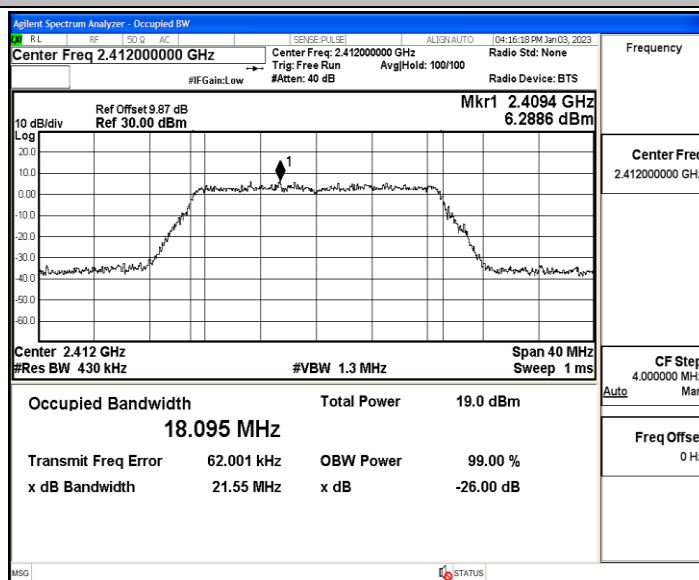
11G_Ant2_2462



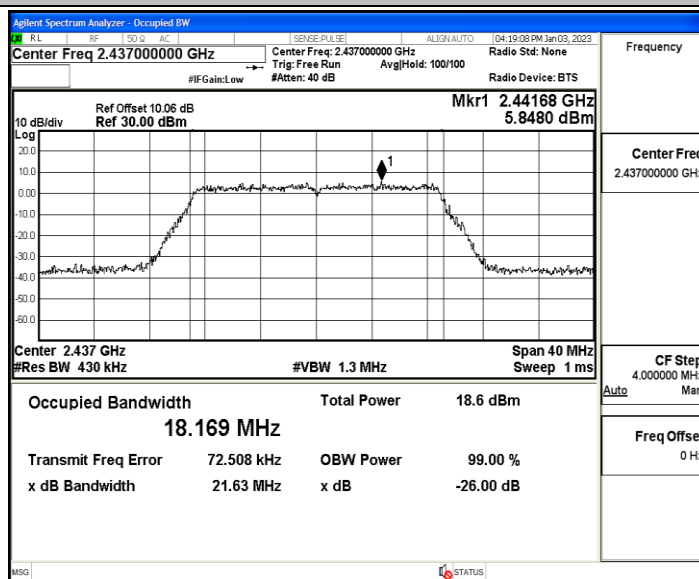
11N20MIMO_Ant1_2412



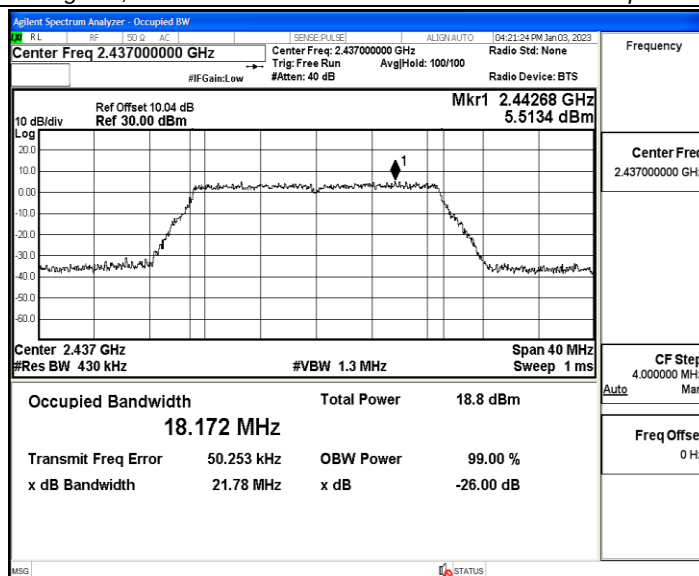
11N20MIMO_Ant2_2412



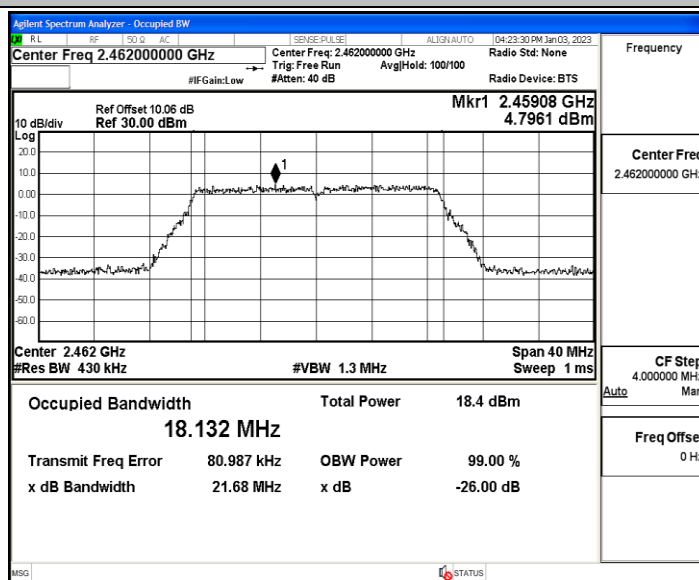
11N20MIMO_Ant1_2437



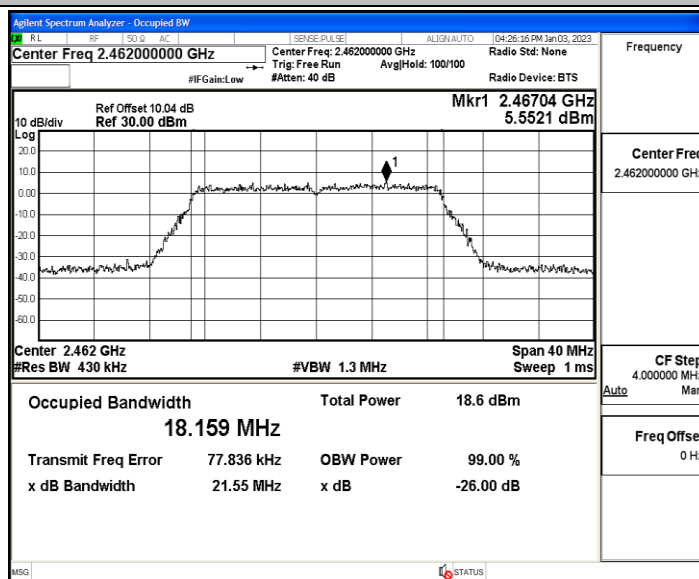
11N20MIMO_Ant2_2437



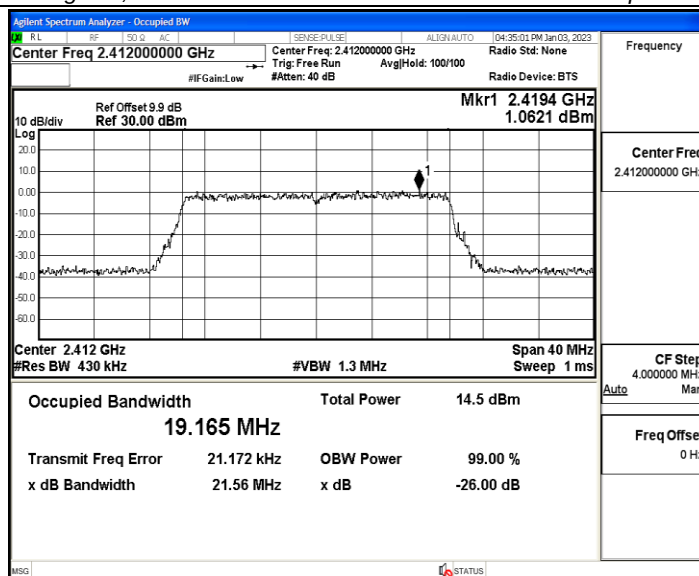
11N20MIMO_Ant1_2462



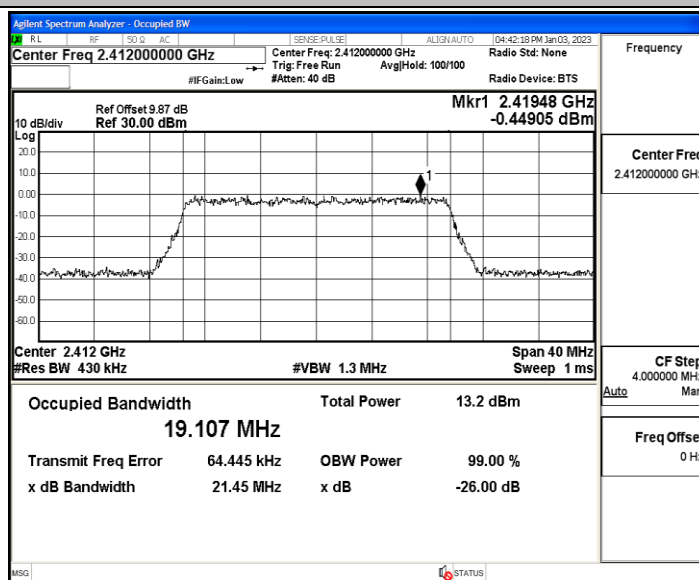
11N20MIMO_Ant2_2462



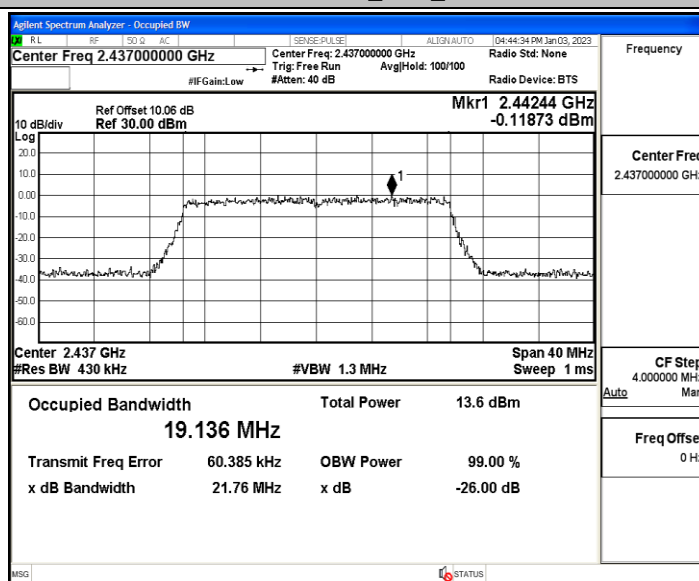
11AX20MIMO_Ant1_2412



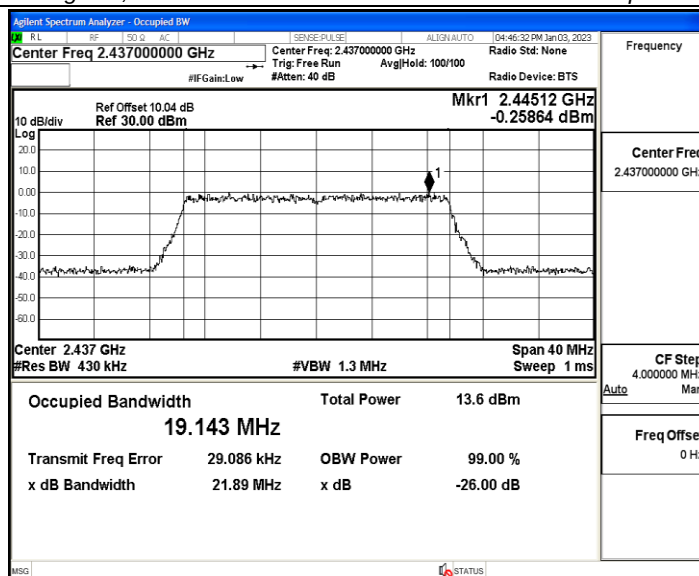
11AX20MIMO_Ant2_2412



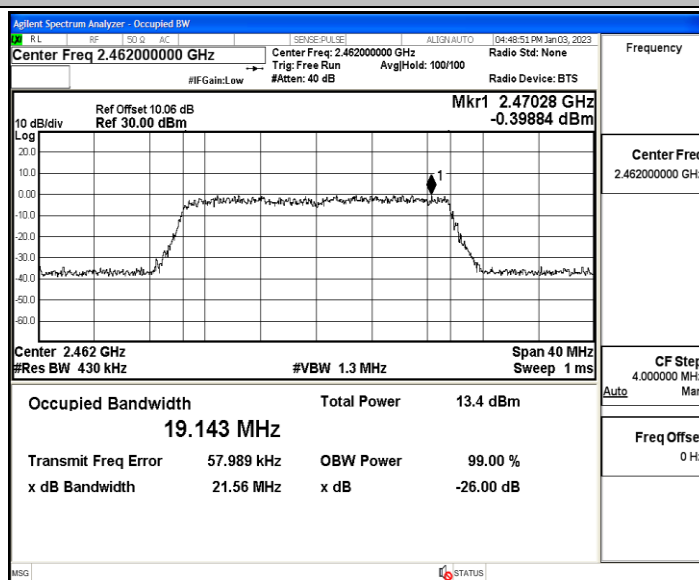
11AX20MIMO_Ant1_2437



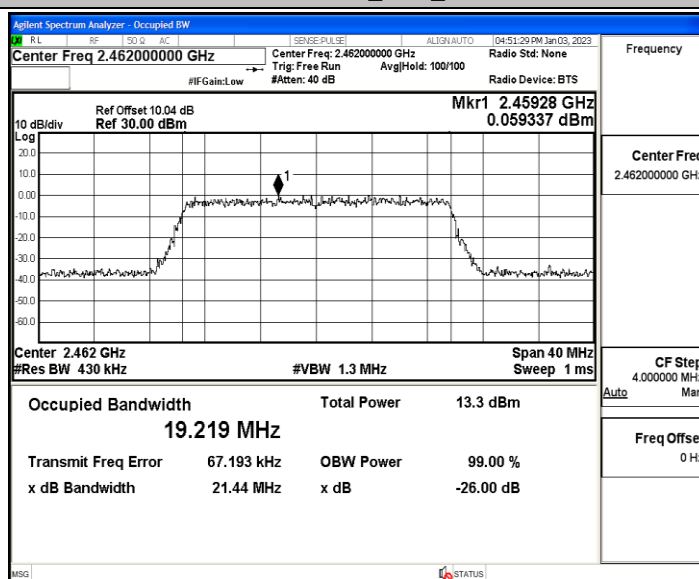
11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.27	≤30.00	PASS
	Ant2	2412	13.15	≤30.00	PASS
	Ant1	2437	13.08	≤30.00	PASS
	Ant2	2437	13.22	≤30.00	PASS
	Ant1	2462	12.89	≤30.00	PASS
	Ant2	2462	11.09	≤30.00	PASS
11G	Ant1	2412	12.96	≤30.00	PASS
	Ant2	2412	12.68	≤30.00	PASS
	Ant1	2437	12.60	≤30.00	PASS
	Ant2	2437	12.62	≤30.00	PASS
	Ant1	2462	12.07	≤30.00	PASS
	Ant2	2462	12.50	≤30.00	PASS
11N20MIMO	Ant1	2412	12.85	≤30.00	PASS
	Ant2	2412	12.66	≤30.00	PASS
	total	2412	15.77	≤29.28	PASS
	Ant1	2437	12.34	≤30.00	PASS
	Ant2	2437	12.57	≤30.00	PASS
	total	2437	15.47	≤29.28	PASS
	Ant1	2462	12.13	≤30.00	PASS
	Ant2	2462	12.34	≤30.00	PASS
	total	2462	15.25	≤29.28	PASS
11AX20MIMO	Ant1	2412	15.07	≤30.00	PASS
	Ant2	2412	13.75	≤30.00	PASS
	total	2412	17.47	≤29.28	PASS
	Ant1	2437	14.07	≤30.00	PASS
	Ant2	2437	14.04	≤30.00	PASS
	total	2437	17.07	≤29.28	PASS
	Ant1	2462	13.89	≤30.00	PASS
	Ant2	2462	13.71	≤30.00	PASS
	total	2462	16.81	≤29.28	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix D: Maximum power spectral density

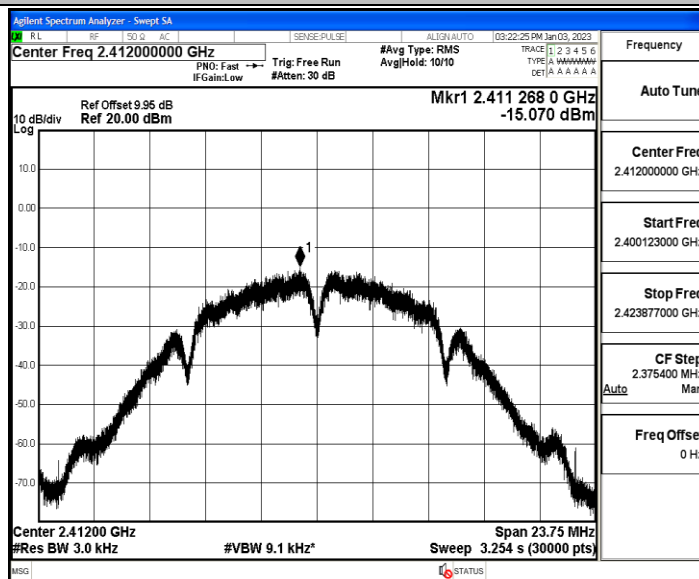
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.07	≤8.00	PASS
	Ant2	2412	-15.48	≤8.00	PASS
	Ant1	2437	-15.59	≤8.00	PASS
	Ant2	2437	-15.21	≤8.00	PASS
	Ant1	2462	-15.43	≤8.00	PASS
	Ant2	2462	-17.62	≤8.00	PASS
11G	Ant1	2412	-17.53	≤8.00	PASS
	Ant2	2412	-18.02	≤8.00	PASS
	Ant1	2437	-18.54	≤8.00	PASS
	Ant2	2437	-18	≤8.00	PASS
	Ant1	2462	-18.2	≤8.00	PASS
	Ant2	2462	-17.7	≤8.00	PASS
11N20MIMO	Ant1	2412	-16.93	≤8.00	PASS
	Ant2	2412	-16.85	≤8.00	PASS
	total	2412	-13.88	≤7.28	PASS
	Ant1	2437	-17.93	≤8.00	PASS
	Ant2	2437	-17.08	≤8.00	PASS
	total	2437	-14.47	≤7.28	PASS
	Ant1	2462	-17.05	≤8.00	PASS
	Ant2	2462	-17.12	≤8.00	PASS
	total	2462	-14.07	≤7.28	PASS
11AX20MIMO	Ant1	2412	-12.75	≤8.00	PASS
	Ant2	2412	-14.14	≤8.00	PASS
	total	2412	-10.38	≤7.28	PASS
	Ant1	2437	-13.63	≤8.00	PASS
	Ant2	2437	-13.69	≤8.00	PASS
	total	2437	-10.65	≤7.28	PASS
	Ant1	2462	-14.1	≤8.00	PASS
	Ant2	2462	-13.83	≤8.00	PASS
	total	2462	-10.95	≤7.28	PASS

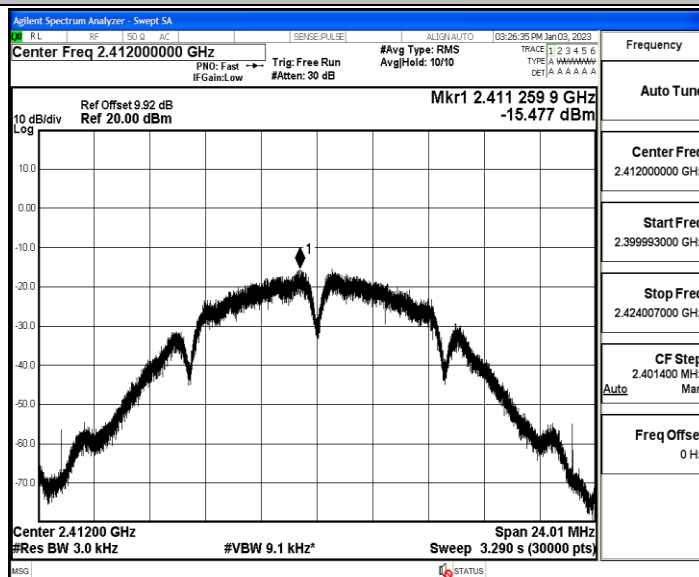
Note: The Duty Cycle Factor is compensated in the test result.

Test Graphs

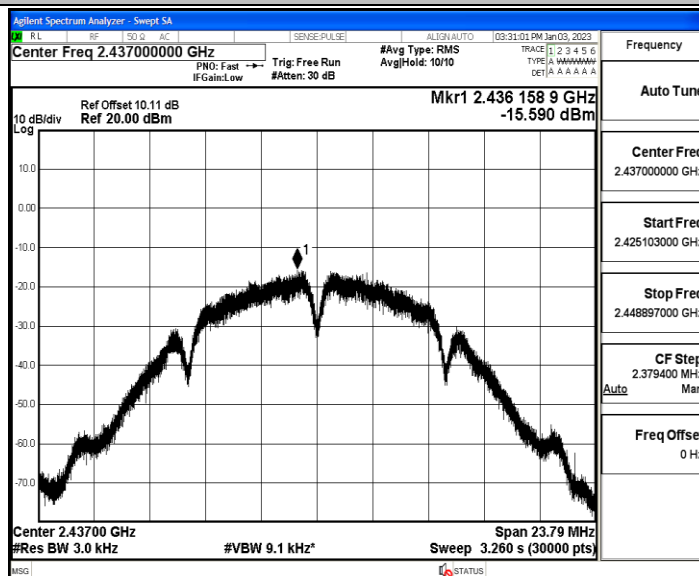
11B_Ant1_2412



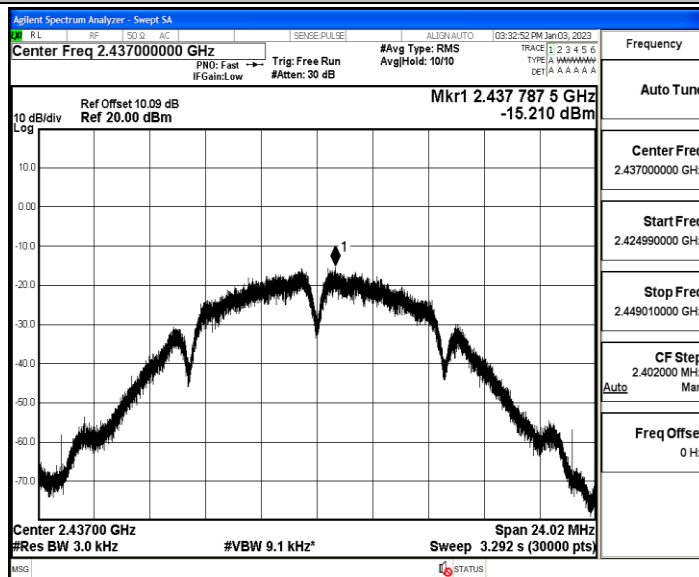
11B_Ant2_2412



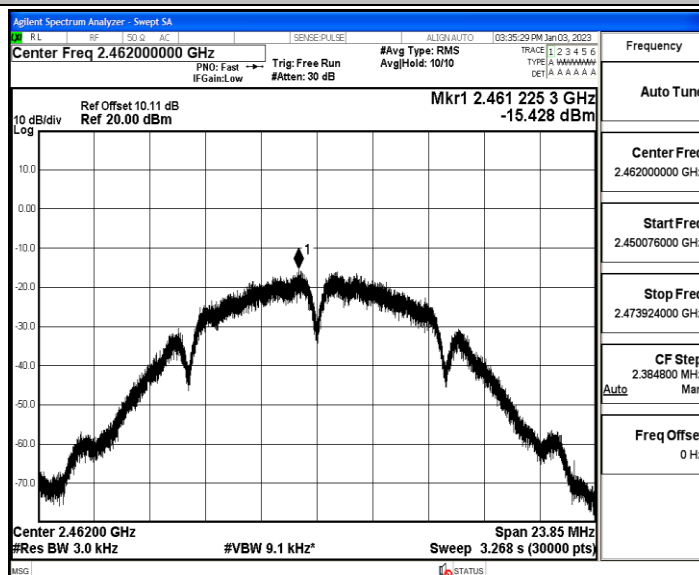
11B_Ant1_2437



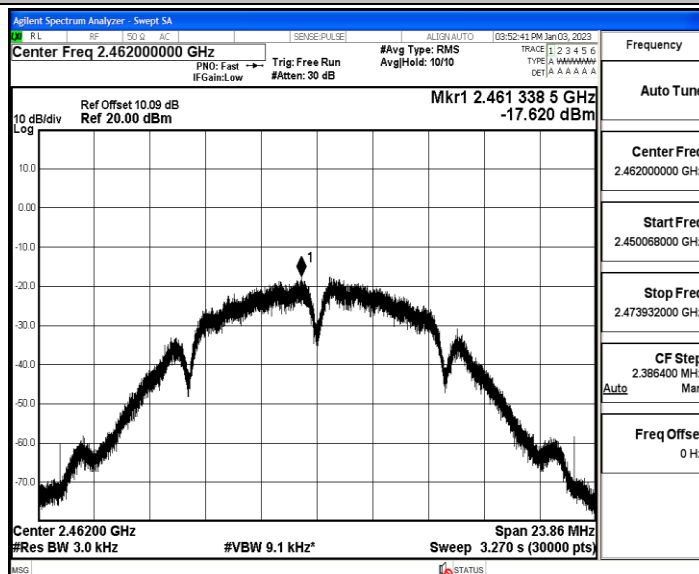
11B_Ant2_2437



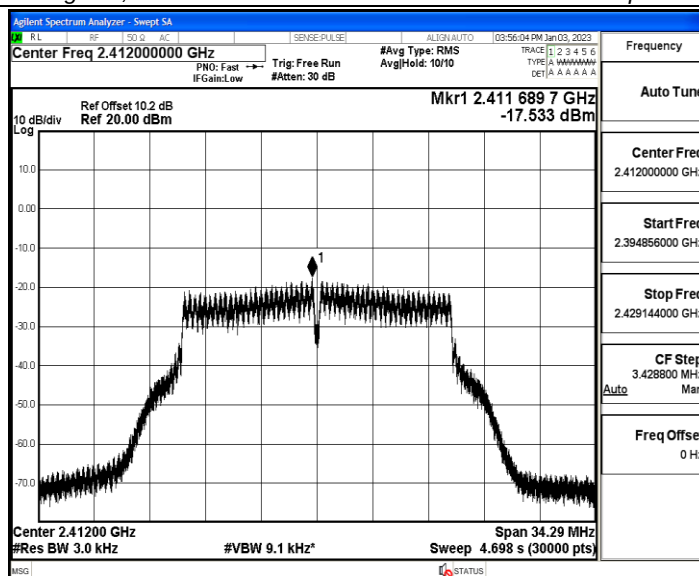
11B_Ant1_2462



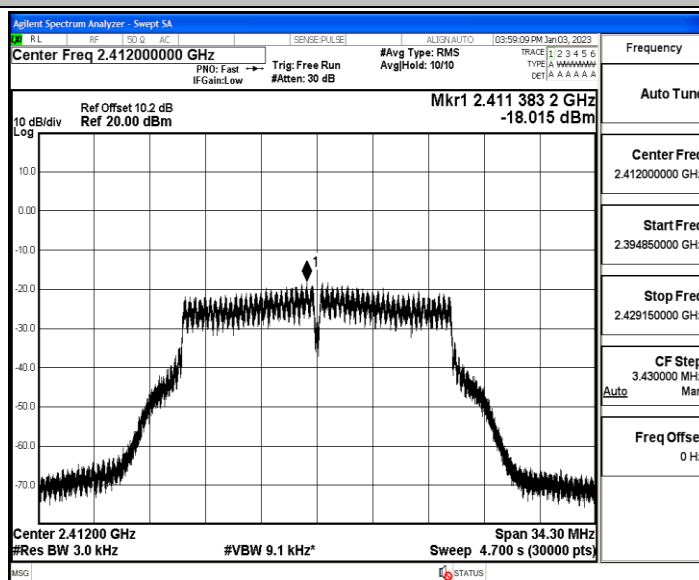
11B_Ant2_2462



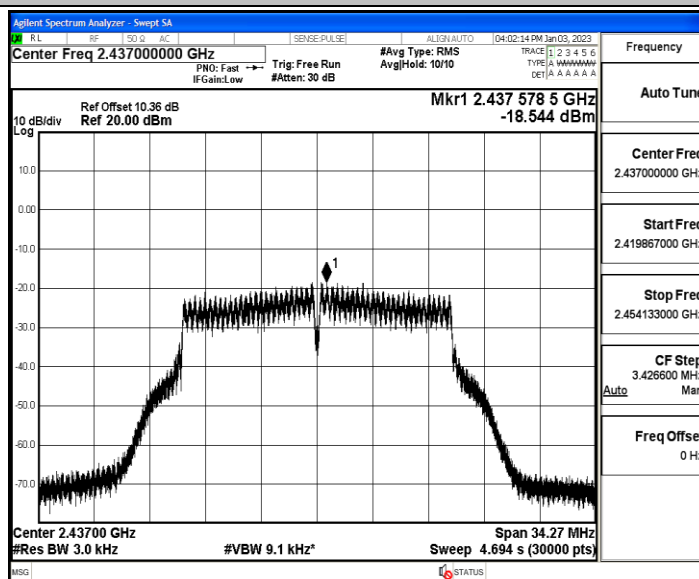
11G_Ant1_2412



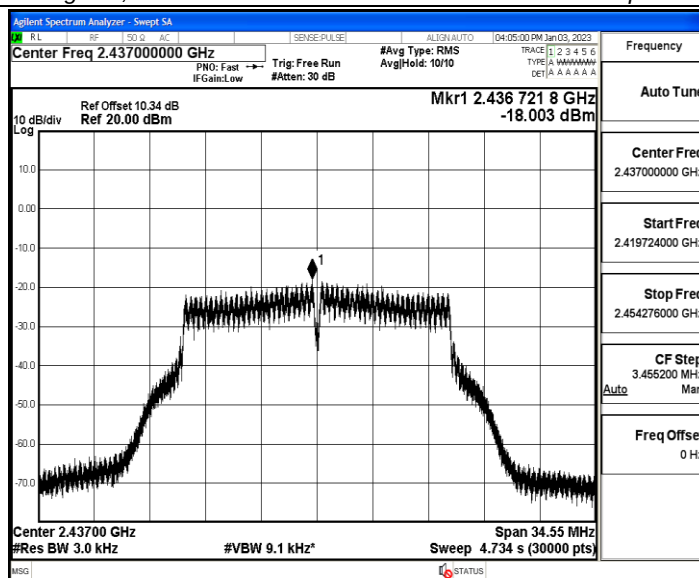
11G_Ant2_2412



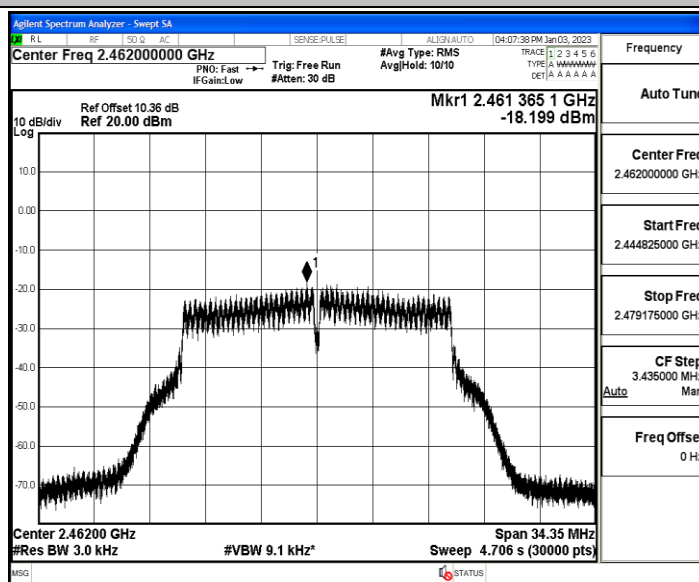
11G_Ant1_2437



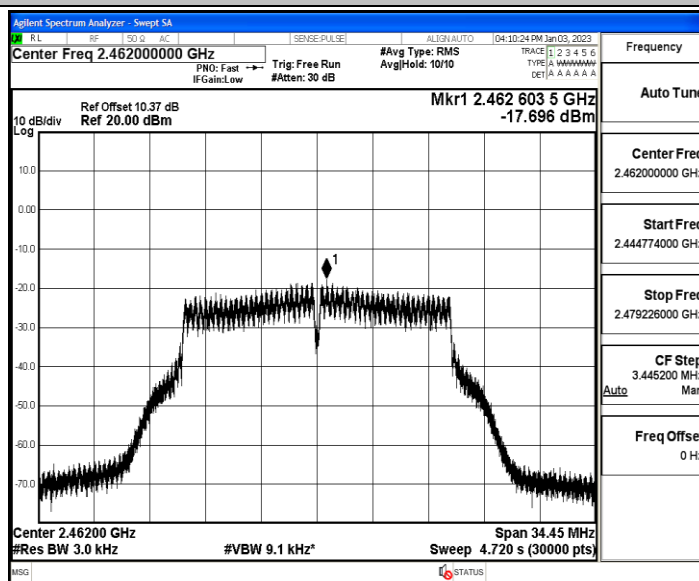
11G_Ant2_2437



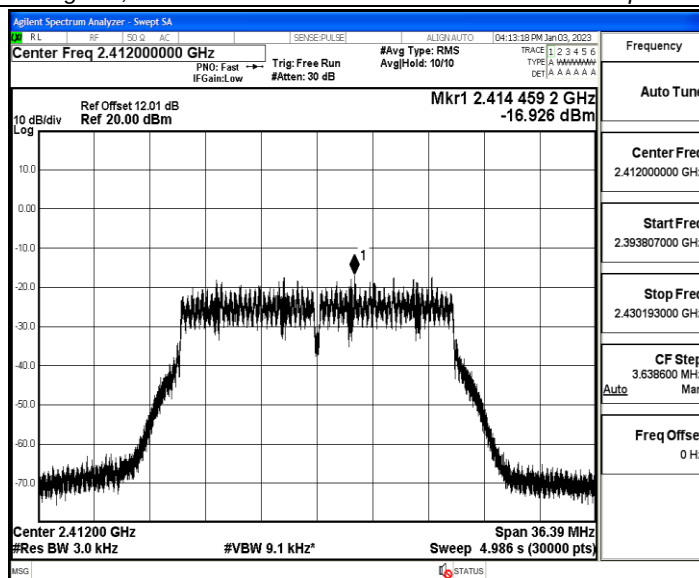
11G_Ant1_2462



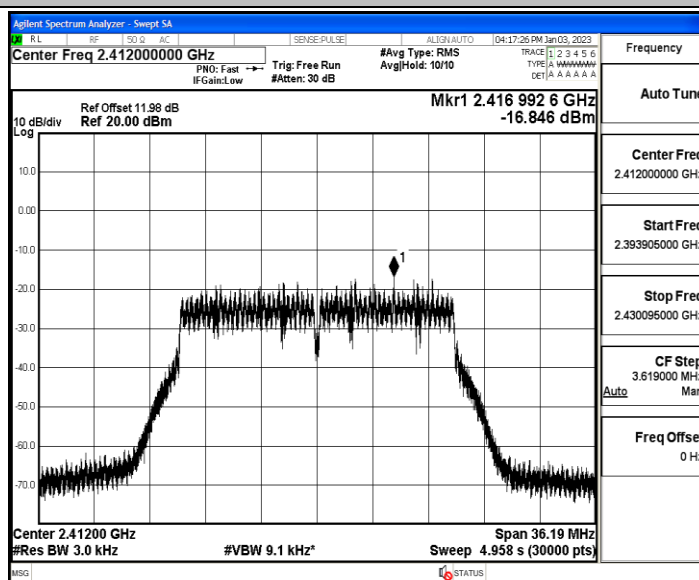
11G_Ant2_2462



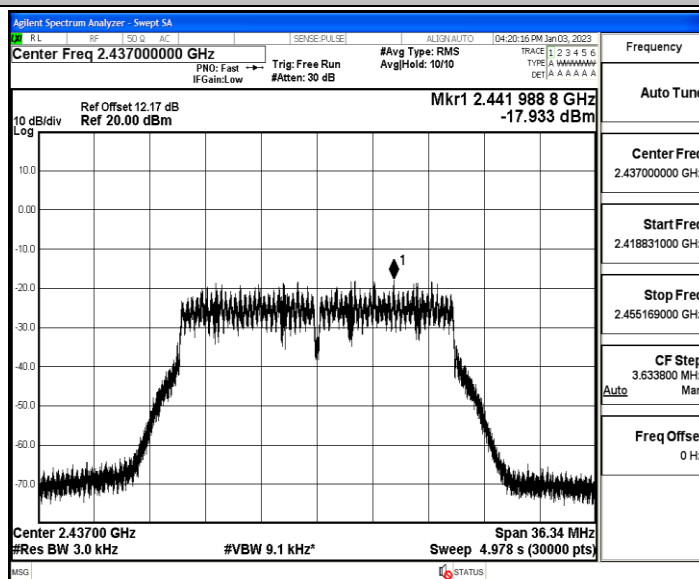
11N20MIMO_Ant1_2412



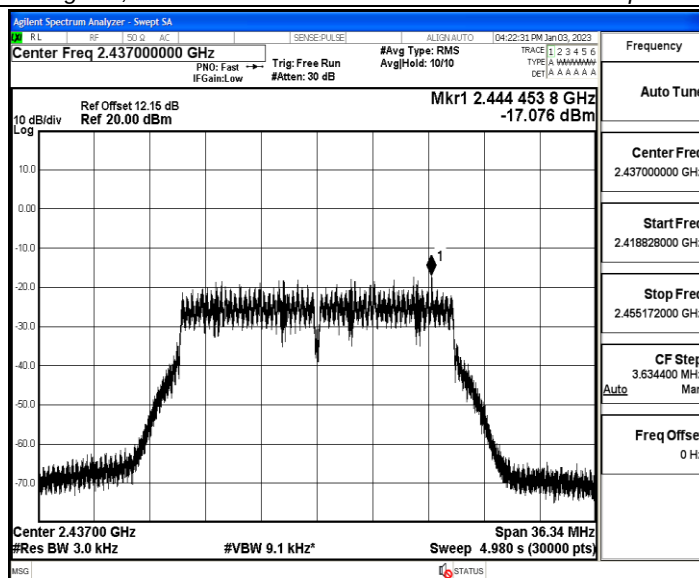
11N20MIMO Ant2 2412



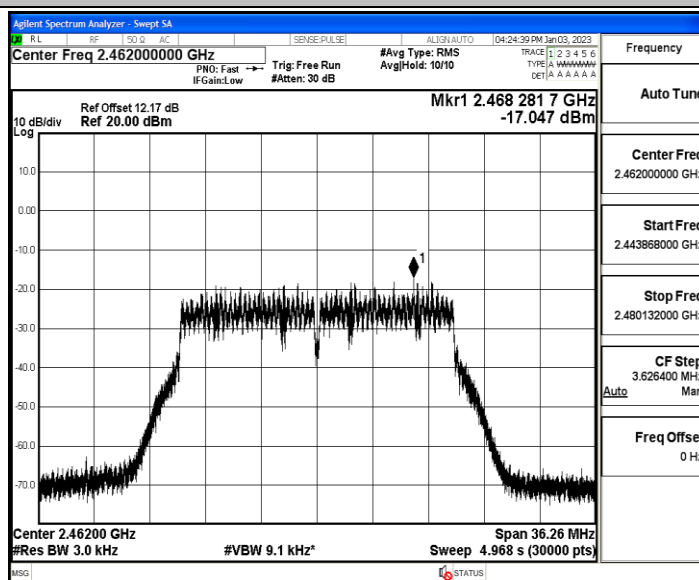
11N20MIMO Ant1 2437



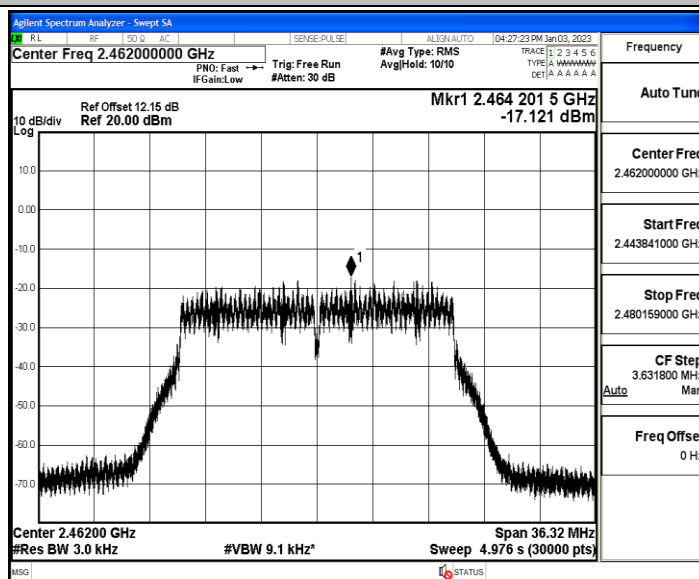
11N20MIMO Ant2 2437



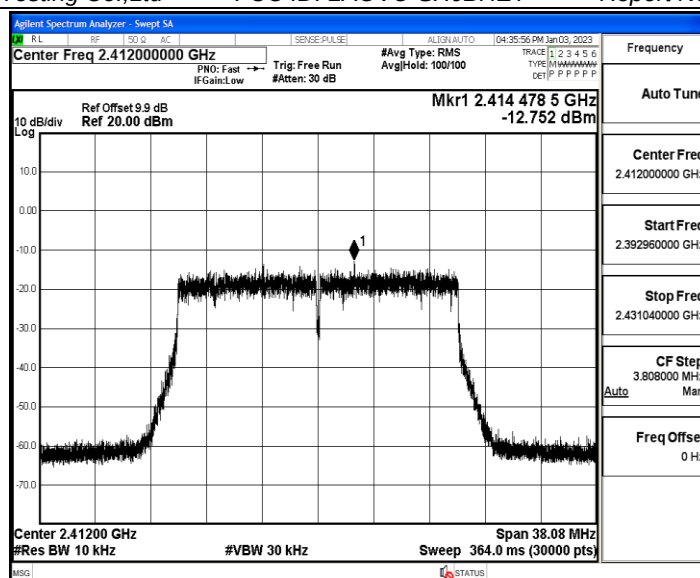
11N20MIMO_Ant1_2462



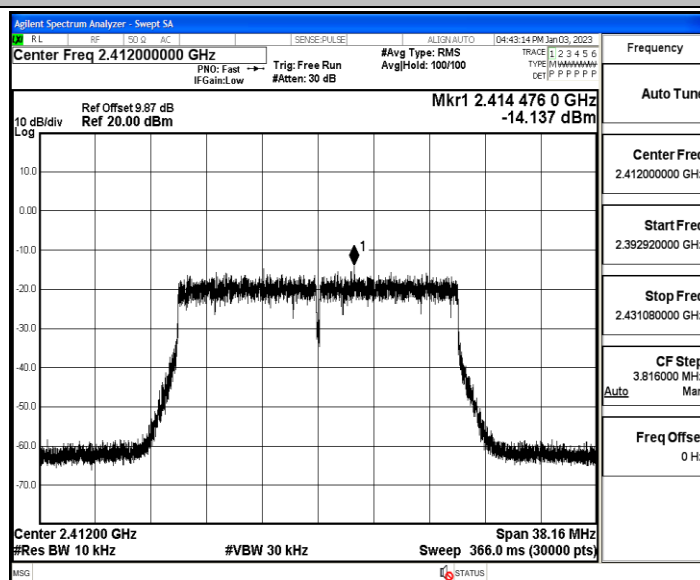
11N20MIMO_Ant2_2462



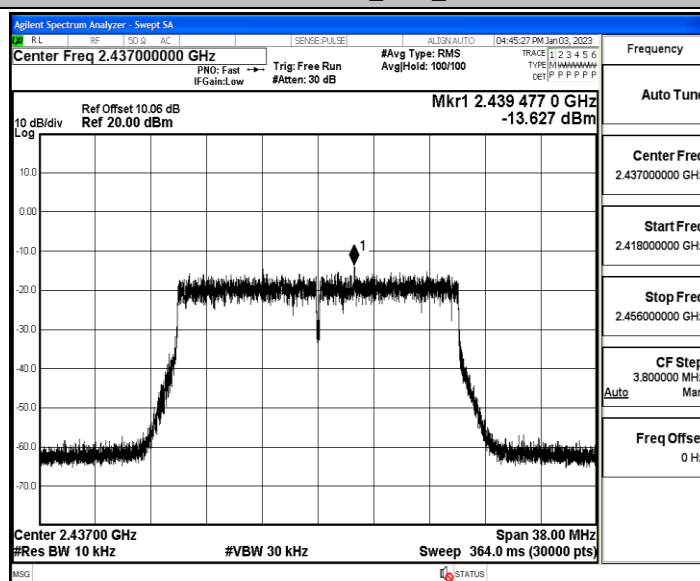
11AX20MIMO_Ant1_2412



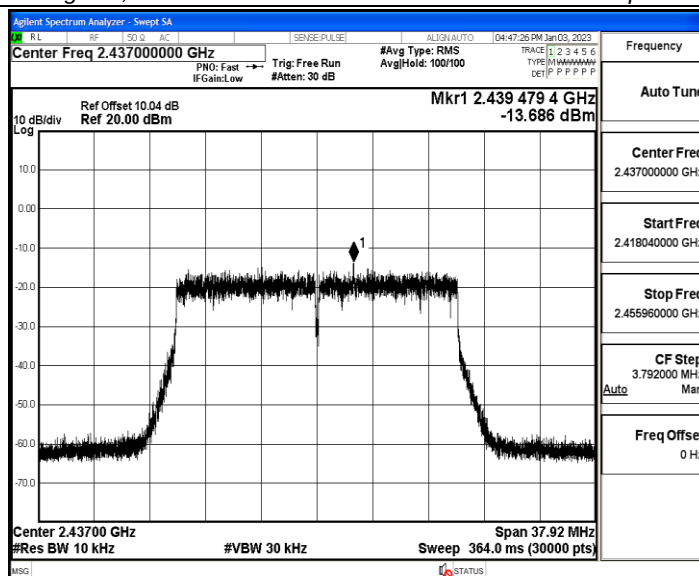
11AX20MIMO_Ant2_2412



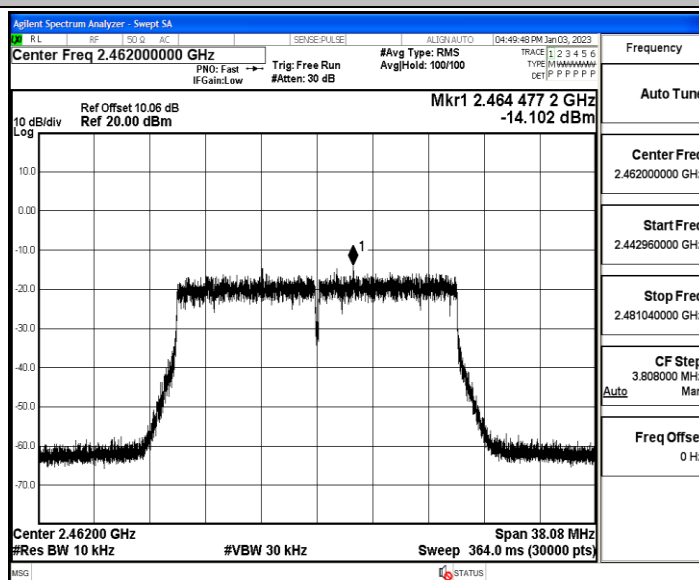
11AX20MIMO_Ant1_2437



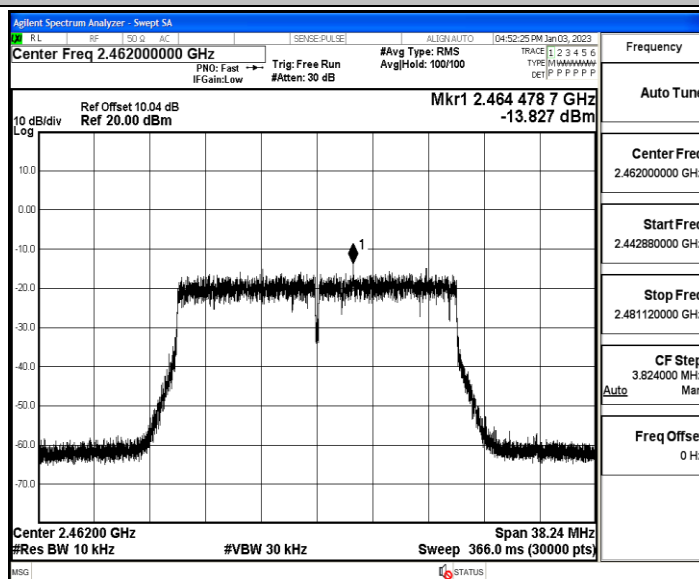
11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



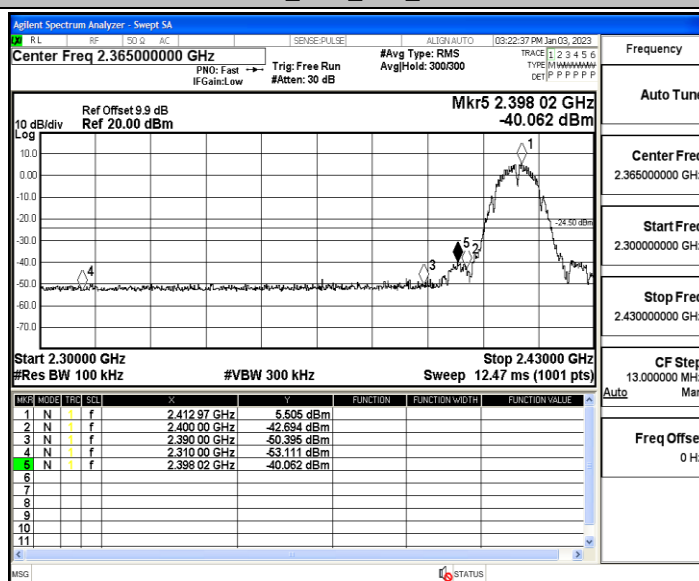
Appendix E: Band edge measurements

Test Result

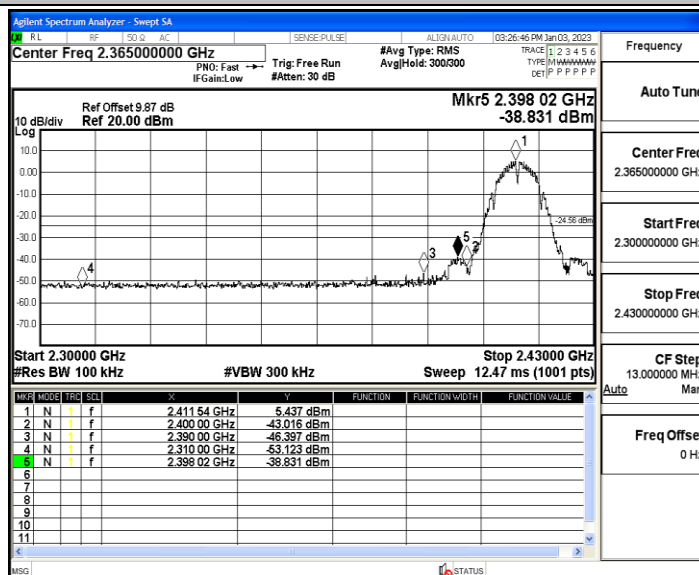
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.51	-40.06	≤ -24.5	PASS
	Ant2	Low	2412	5.44	-38.83	≤ -24.56	PASS
	Ant1	High	2462	5.32	-45.48	≤ -24.68	PASS
	Ant2	High	2462	2.97	-43.67	≤ -27.03	PASS
11G	Ant1	Low	2412	1.11	-39.71	≤ -28.89	PASS
	Ant2	Low	2412	0.28	-39.64	≤ -29.72	PASS
	Ant1	High	2462	0.34	-47.79	≤ -29.66	PASS
	Ant2	High	2462	0.51	-47.01	≤ -29.49	PASS
11N20MIMO	Ant1	Low	2412	0.89	-38.61	≤ -29.11	PASS
	Ant2	Low	2412	0.67	-39.67	≤ -29.34	PASS
	Ant1	High	2462	0.20	-47.78	≤ -29.8	PASS
	Ant2	High	2462	0.42	-46.8	≤ -29.58	PASS
11AX20MIMO	Ant1	Low	2412	-4.40	-47.46	≤ -24.4	PASS
	Ant2	Low	2412	-5.66	-46.26	≤ -25.66	PASS
	Ant1	High	2462	-5.48	-48.29	≤ -25.48	PASS
	Ant2	High	2462	-5.61	-48.22	≤ -25.61	PASS

Test Graphs

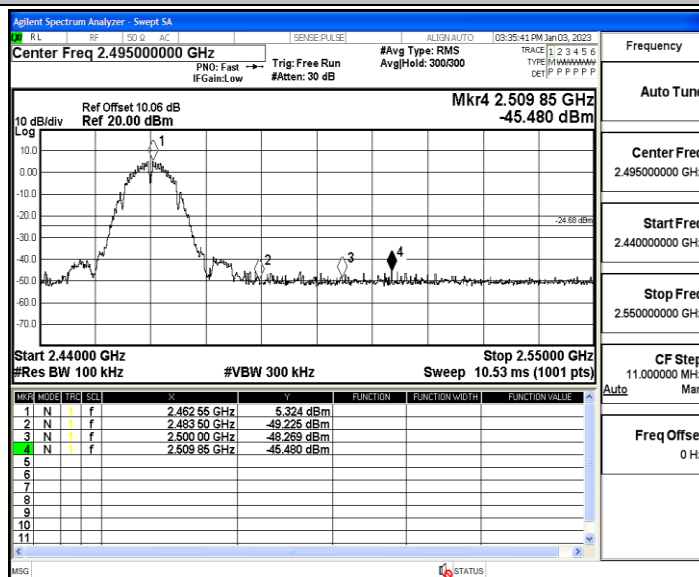
11B_Ant1_Low_2412



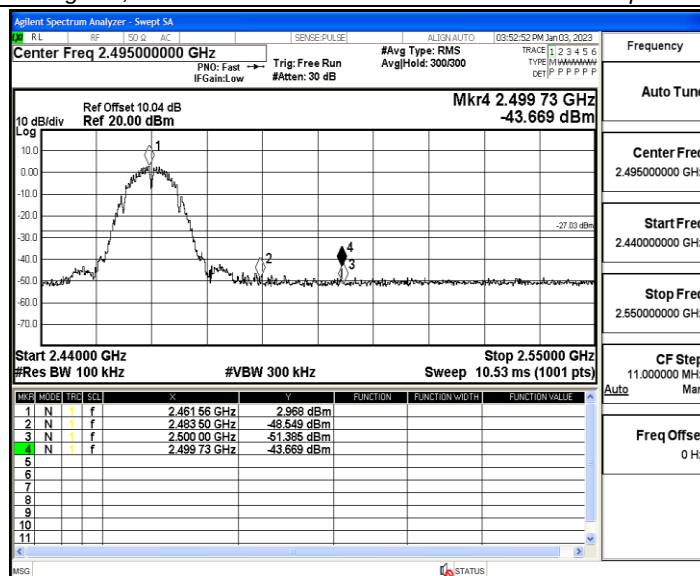
11B_Ant2_Low_2412



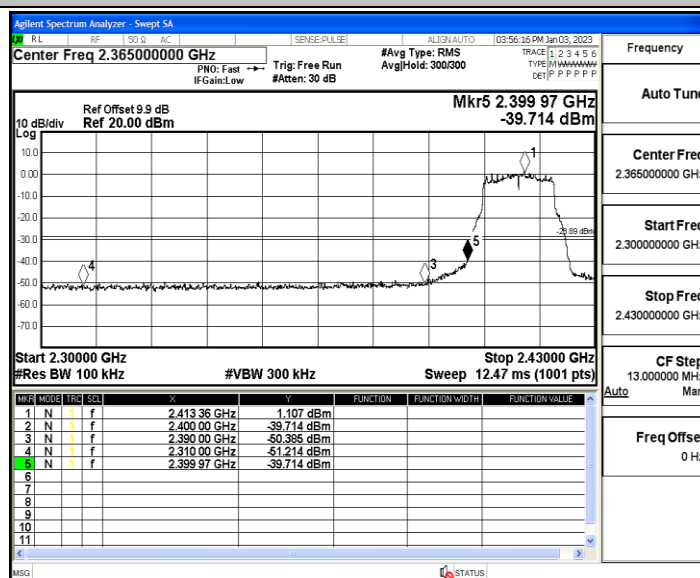
11B_Ant1_High_2462



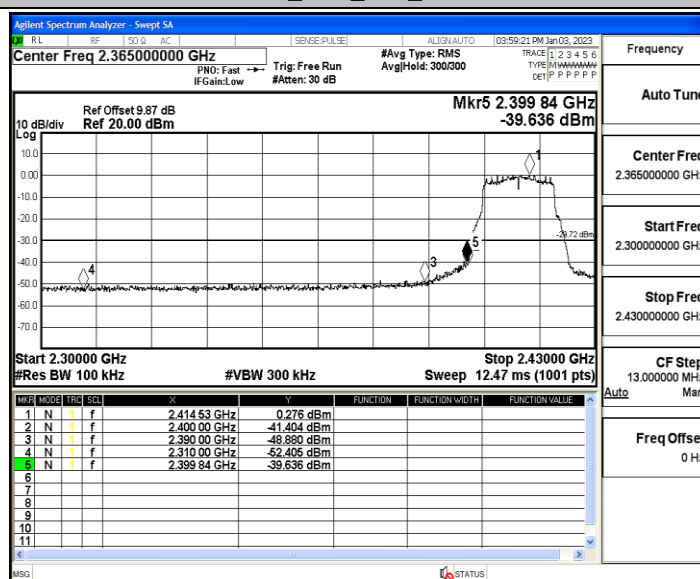
11B_Ant2_High_2462



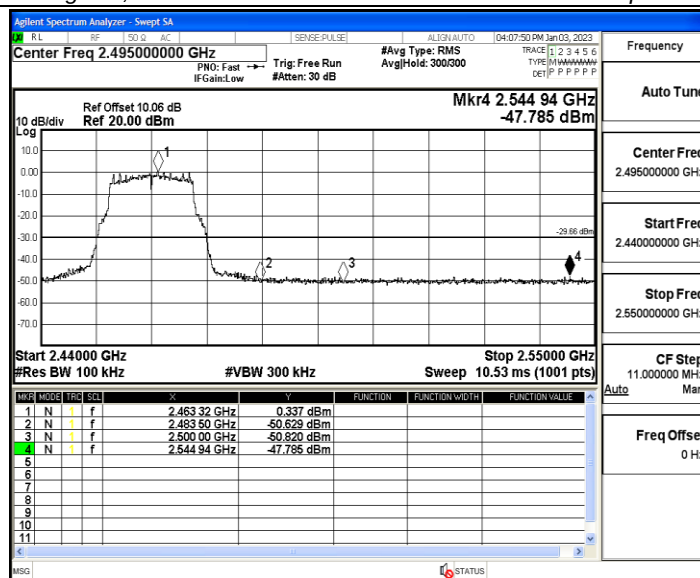
11G_Ant1_Low_2412



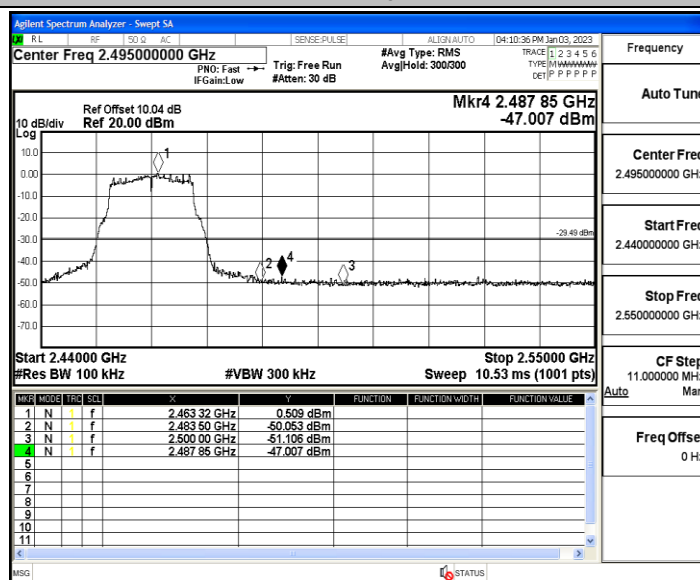
11G_Ant2_Low_2412



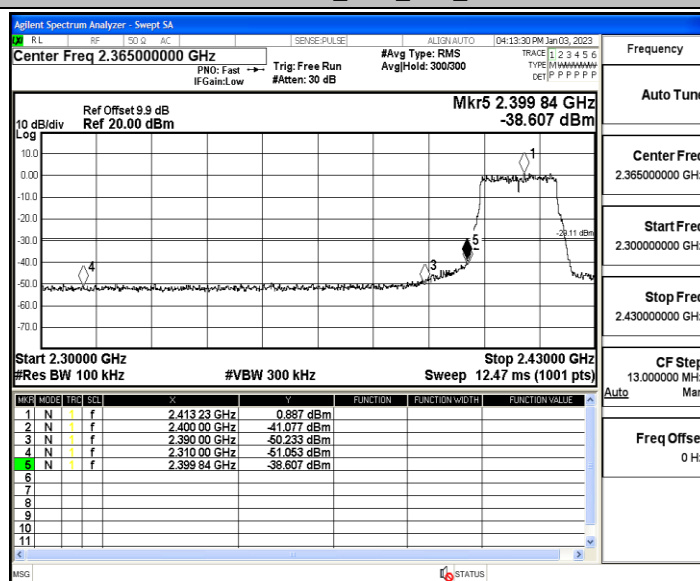
11G_Ant1_High_2462



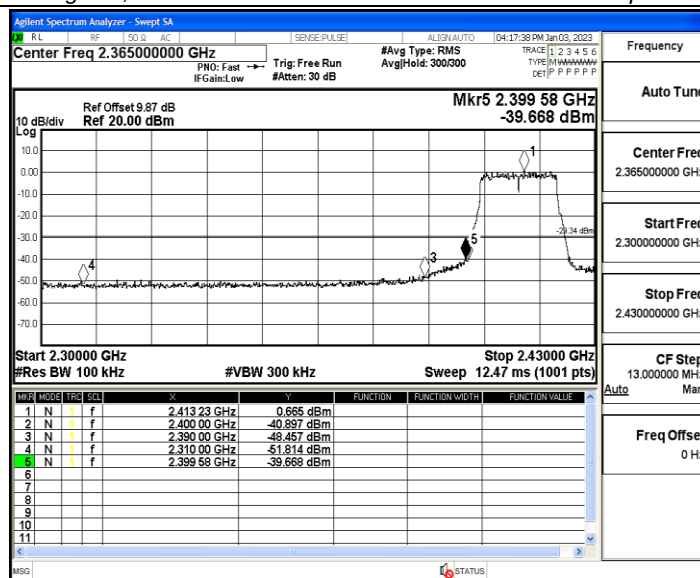
11G_Ant2_High_2462



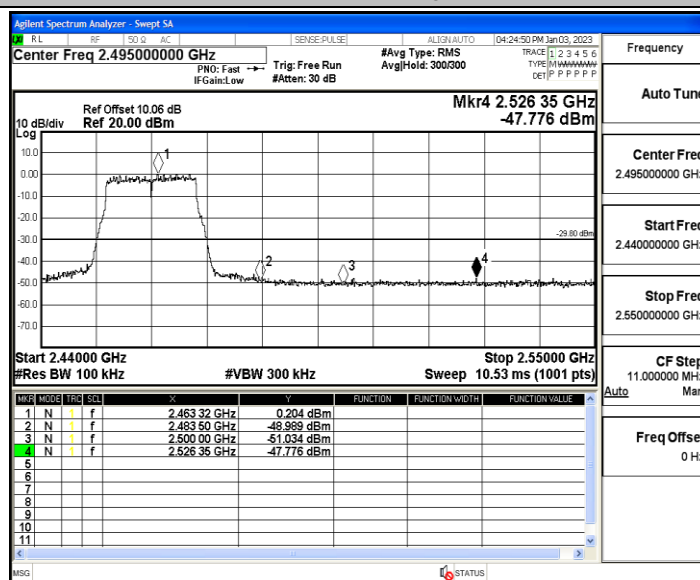
11N20MIMO_Ant1_Low_2412



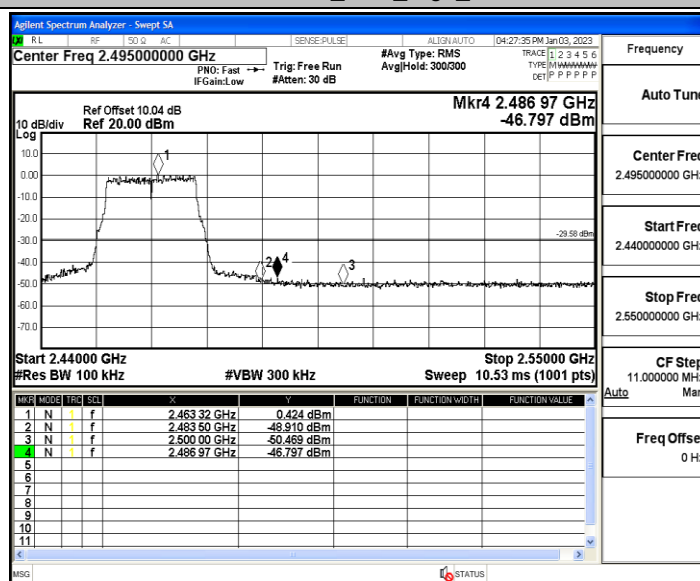
11N20MIMO_Ant2_Low_2412



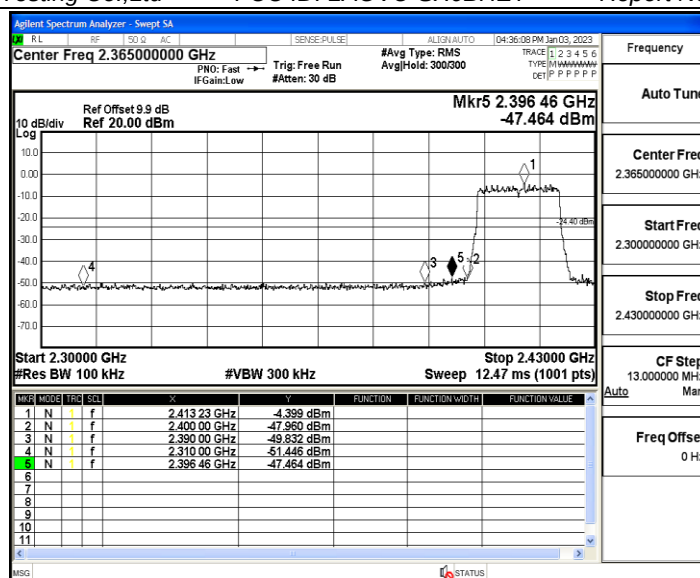
11N20MIMO_Ant1_High_2462



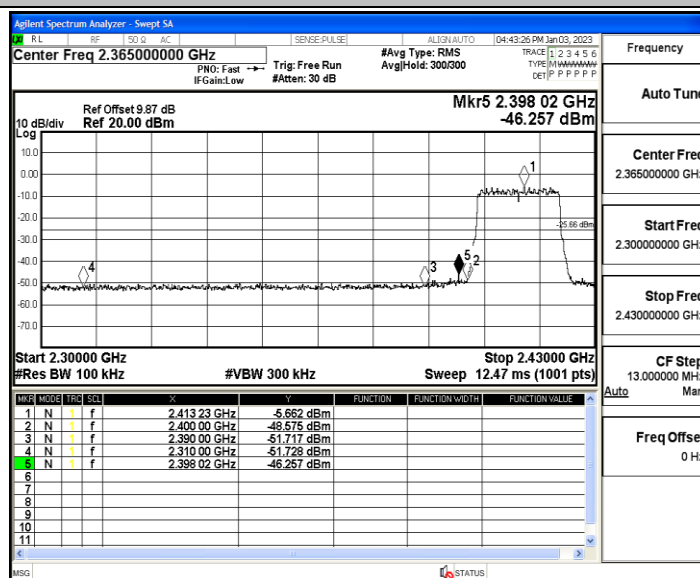
11N20MIMO_Ant2_High_2462



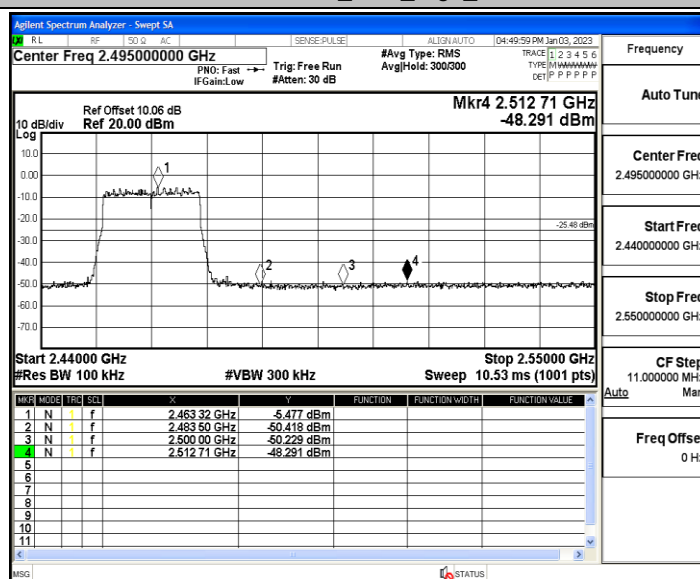
11AX20MIMO_Ant1_Low_2412



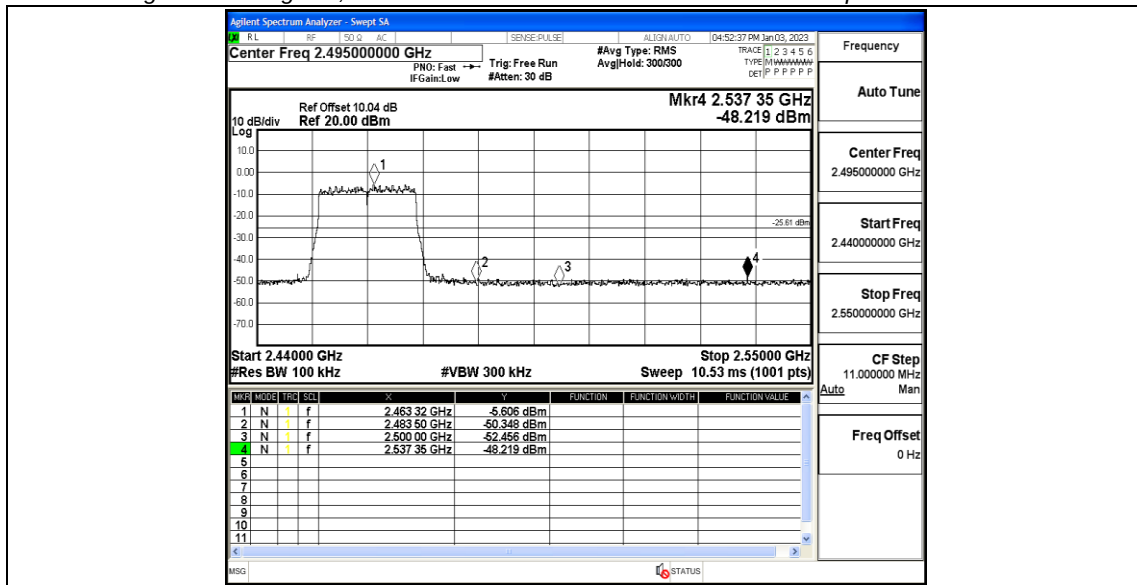
11AX20MIMO_Ant2_Low_2412



11AX20MIMO_Ant1_High_2462



11AX20MIMO_Ant2_High_2462



Appendix F: Conducted Spurious Emission

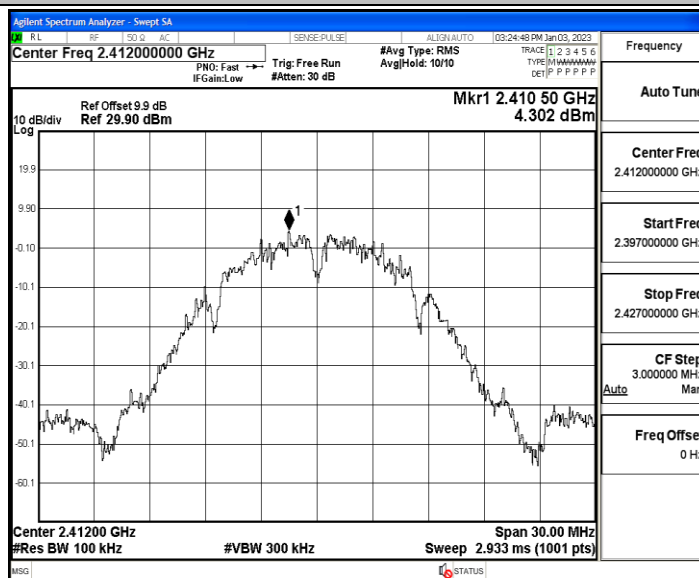
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.30	4.30	---	PASS
			30~1000	4.30	-60.47	≤-25.7	PASS
			1000~26500	4.30	-50.71	≤-25.7	PASS
	Ant2	2412	Reference	3.24	3.24	---	PASS
			30~1000	3.24	-61.05	≤-26.76	PASS
			1000~26500	3.24	-51.4	≤-26.76	PASS
	Ant1	2437	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-60.64	≤-26.52	PASS
			1000~26500	3.48	-49.38	≤-26.52	PASS
	Ant2	2437	Reference	5.10	5.10	---	PASS
			30~1000	5.10	-60.42	≤-24.9	PASS
			1000~26500	5.10	-50.87	≤-24.9	PASS
	Ant1	2462	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-60.02	≤-25.51	PASS
			1000~26500	4.49	-50.45	≤-25.51	PASS
	Ant2	2462	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-60.57	≤-27.04	PASS
			1000~26500	2.96	-51.33	≤-27.04	PASS
11G	Ant1	2412	Reference	-0.08	-0.08	---	PASS
			30~1000	-0.08	-60.57	≤-30.08	PASS
			1000~26500	-0.08	-51.19	≤-30.08	PASS
	Ant2	2412	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-61.06	≤-31.3	PASS
			1000~26500	-1.30	-50.81	≤-31.3	PASS
	Ant1	2437	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-60.52	≤-31.03	PASS
			1000~26500	-1.03	-50.77	≤-31.03	PASS
	Ant2	2437	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-60.52	≤-30.58	PASS
			1000~26500	-0.58	-51.66	≤-30.58	PASS
	Ant1	2462	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-59.55	≤-31.32	PASS
			1000~26500	-1.32	-49.52	≤-31.32	PASS
	Ant2	2462	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-60.77	≤-30.42	PASS
			1000~26500	-0.42	-50.84	≤-30.42	PASS
11N20MIMO	Ant1	2412	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-61.49	≤-29.43	PASS
			1000~26500	0.57	-51.75	≤-29.43	PASS
	Ant2	2412	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-60.97	≤-30.17	PASS

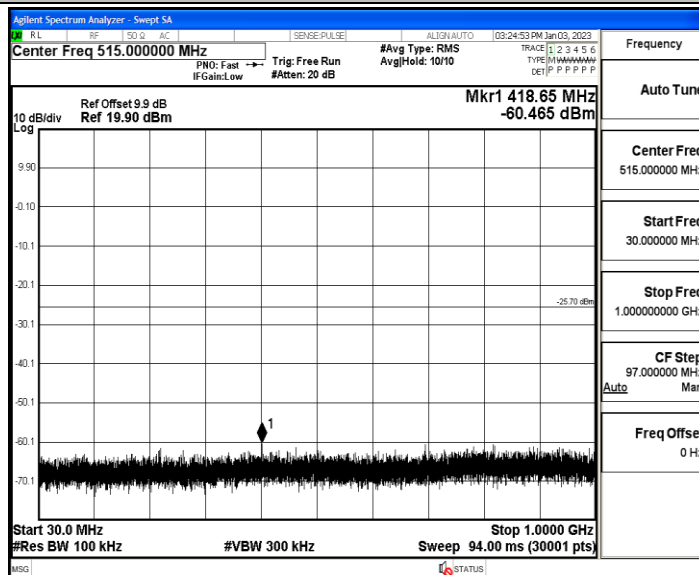
	Ant1	2437	1000~26500	-0.17	-49.63	≤ -30.17	PASS
			Reference	0.09	0.09	---	PASS
			30~1000	0.09	-60.39	≤ -29.91	PASS
			1000~26500	0.09	-48.78	≤ -29.91	PASS
	Ant2	2437	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-60.53	≤ -30.52	PASS
			1000~26500	-0.52	-50.58	≤ -30.52	PASS
	Ant1	2462	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-60.81	≤ -30.18	PASS
			1000~26500	-0.18	-51.04	≤ -30.18	PASS
	Ant2	2462	Reference	0.11	0.11	---	PASS
			30~1000	0.11	-60.82	≤ -29.89	PASS
			1000~26500	0.11	-50.56	≤ -29.89	PASS
11AX20MIMO	Ant1	2412	Reference	-5.39	-5.39	---	PASS
			30~1000	-5.39	-59.42	≤ -25.39	PASS
			1000~26500	-5.39	-50.79	≤ -25.39	PASS
	Ant2	2412	Reference	-6.22	-6.22	---	PASS
			30~1000	-6.22	-59.99	≤ -26.22	PASS
			1000~26500	-6.22	-50.28	≤ -26.22	PASS
	Ant1	2437	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-60.64	≤ -25.64	PASS
			1000~26500	-5.64	-51.13	≤ -25.64	PASS
	Ant2	2437	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-60.67	≤ -26	PASS
			1000~26500	-6.00	-50.2	≤ -26	PASS
	Ant1	2462	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-60.49	≤ -25.71	PASS
			1000~26500	-5.71	-50.75	≤ -25.71	PASS
	Ant2	2462	Reference	-6.44	-6.44	---	PASS
			30~1000	-6.44	-60.69	≤ -26.44	PASS
			1000~26500	-6.44	-51.1	≤ -26.44	PASS

Test Graphs

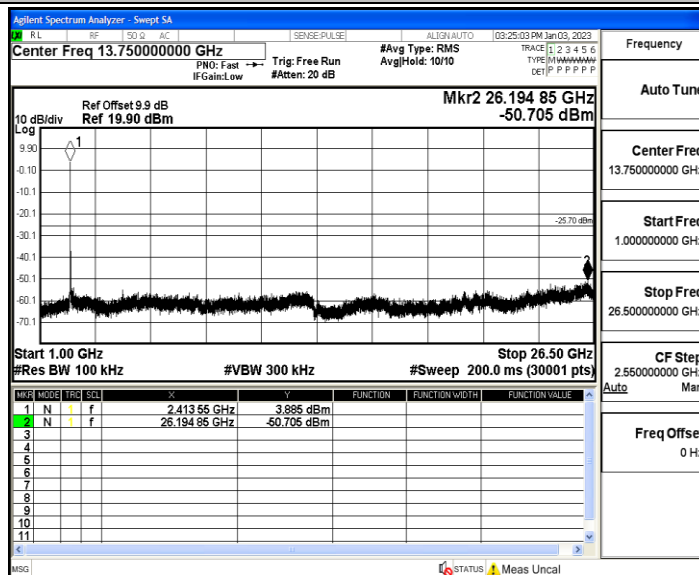
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant2_2412_0~Reference