

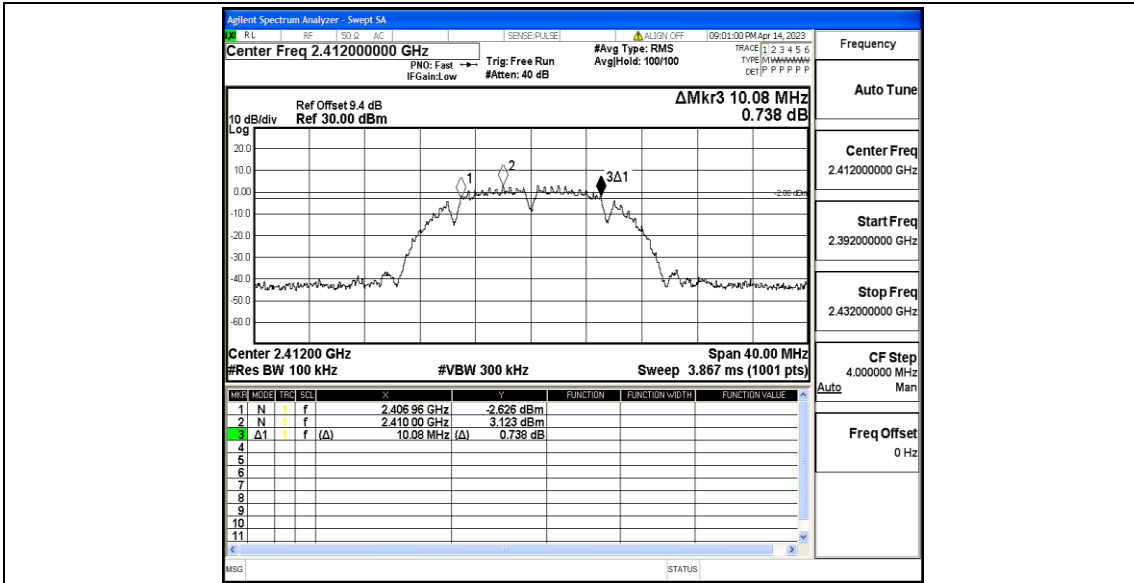
Appendix Test Data for WLAN(2.4G) (Conducted Measurement)**Product Name: NucBox****Trade Mark: GMKtec****Test Model: G1****FCC ID: 2AXUD-G1****Environmental Conditions**

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

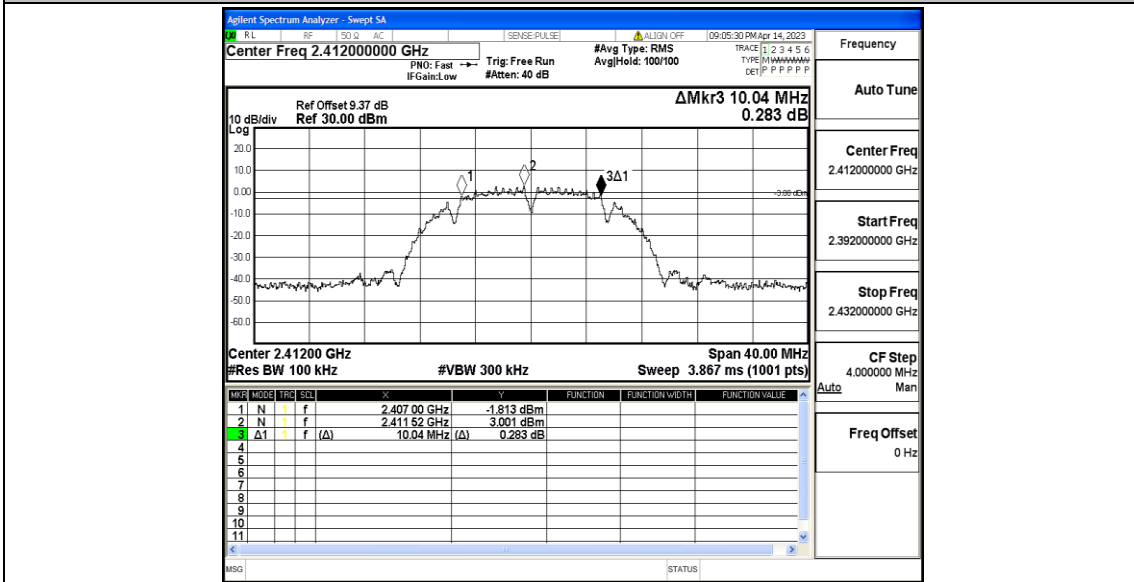
Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
	Ant2	2412	10.040	2407.000	2417.040	0.5	PASS
	Ant1	2437	10.120	2431.920	2442.040	0.5	PASS
	Ant2	2437	11.040	2431.000	2442.040	0.5	PASS
	Ant1	2462	11.080	2456.960	2468.040	0.5	PASS
	Ant2	2462	10.120	2456.960	2467.080	0.5	PASS
11G	Ant1	2412	12.480	2406.400	2418.880	0.5	PASS
	Ant2	2412	13.800	2405.680	2419.480	0.5	PASS
	Ant1	2437	15.920	2428.840	2444.760	0.5	PASS
	Ant2	2437	16.080	2428.840	2444.920	0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
	Ant2	2462	16.320	2453.880	2470.200	0.5	PASS
11N20MIMO	Ant1	2412	17.400	2403.400	2420.800	0.5	PASS
	Ant2	2412	17.400	2403.400	2420.800	0.5	PASS
	Ant1	2437	17.120	2428.240	2445.360	0.5	PASS
	Ant2	2437	17.400	2428.200	2445.600	0.5	PASS
	Ant1	2462	17.080	2453.680	2470.760	0.5	PASS
	Ant2	2462	16.960	2453.840	2470.800	0.5	PASS
11N40MIMO	Ant1	2422	32.560	2406.960	2439.520	0.5	PASS
	Ant2	2422	31.280	2408.240	2439.520	0.5	PASS
	Ant1	2437	35.840	2419.080	2454.920	0.5	PASS
	Ant2	2437	35.840	2419.080	2454.920	0.5	PASS
	Ant1	2452	36.480	2433.760	2470.240	0.5	PASS
	Ant2	2452	36.480	2433.760	2470.240	0.5	PASS

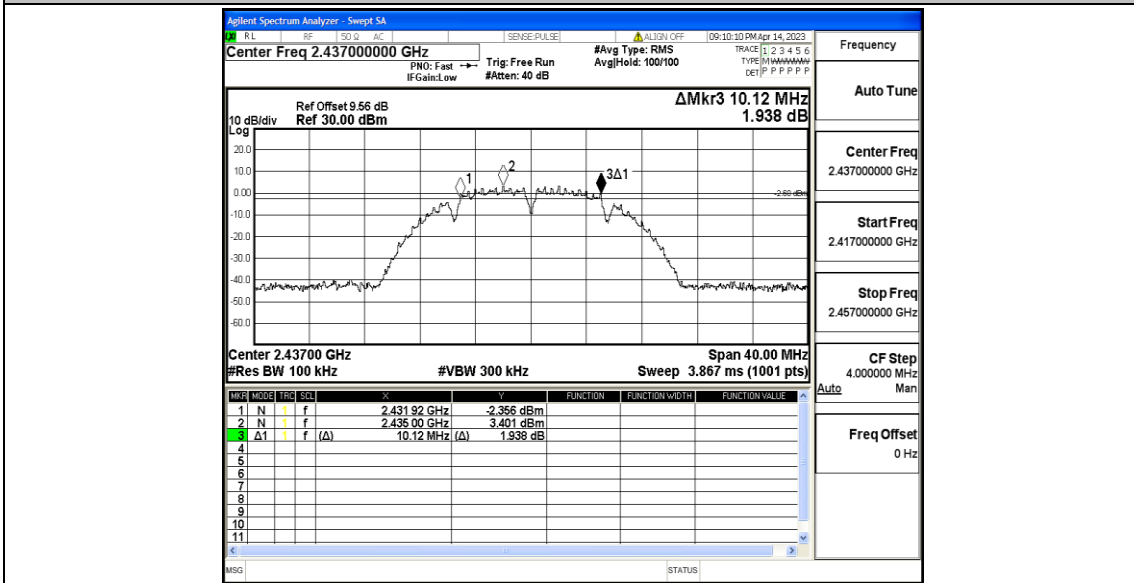
Test Graphs



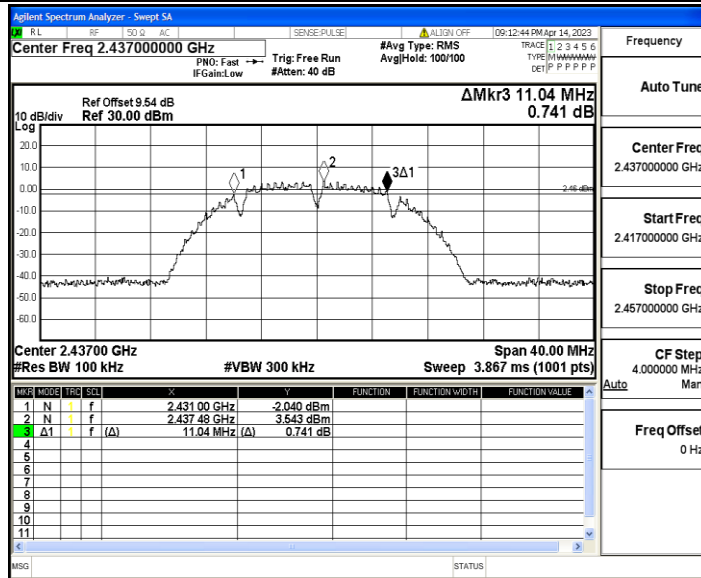
11B_Ant1_2412



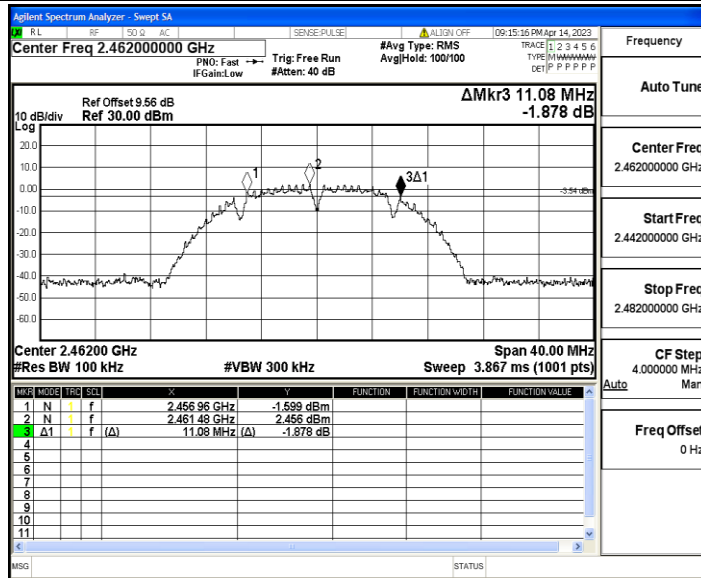
11B_Ant2_2412



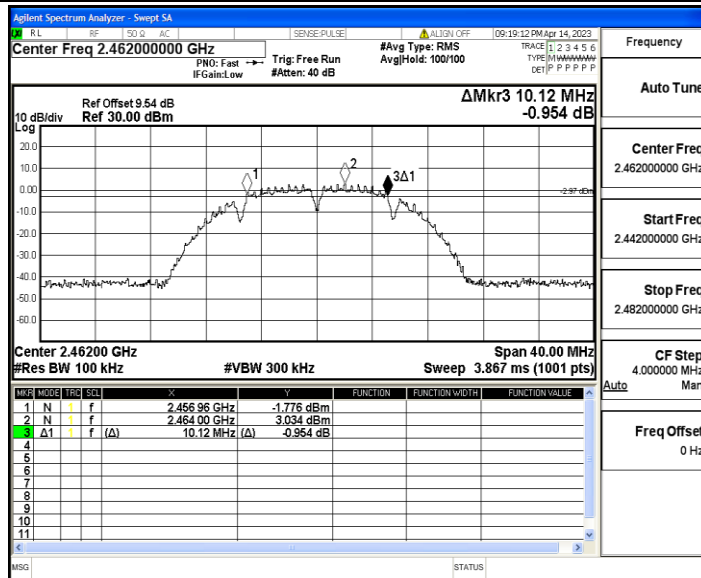
11B_Ant1_2437



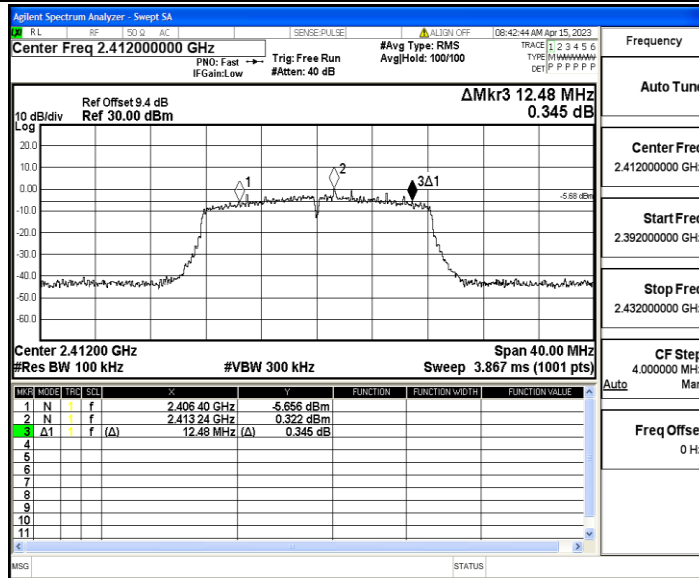
11B_Ant2_2437



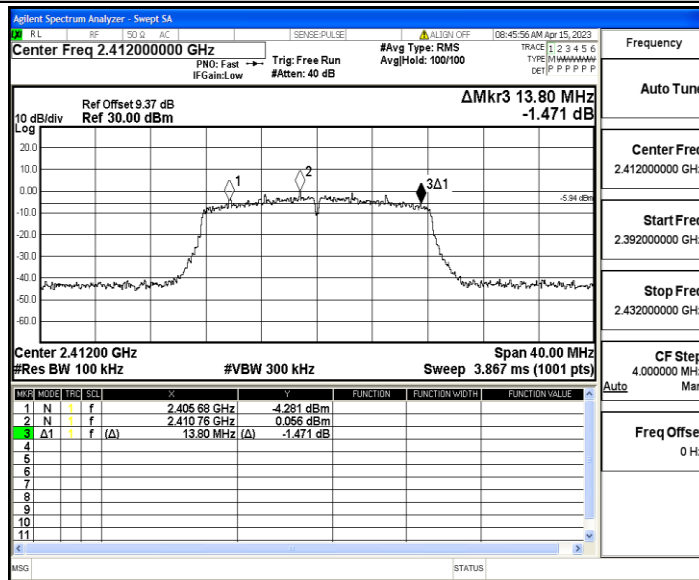
11B_Ant1_2462



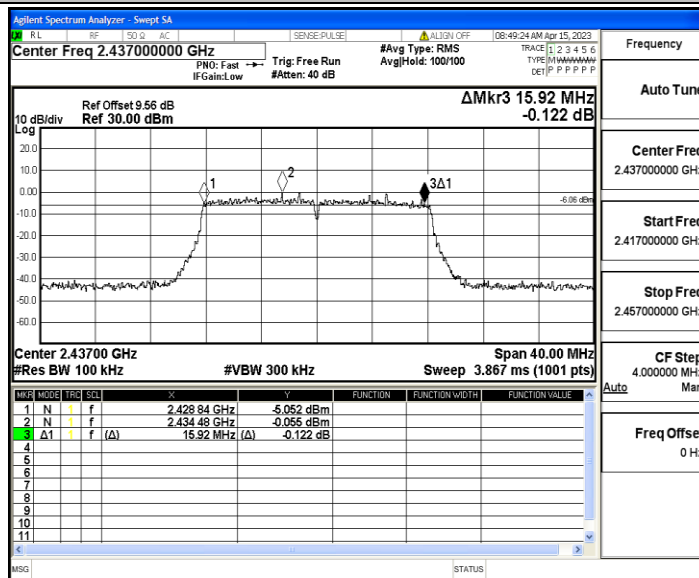
11B_Ant2_2462



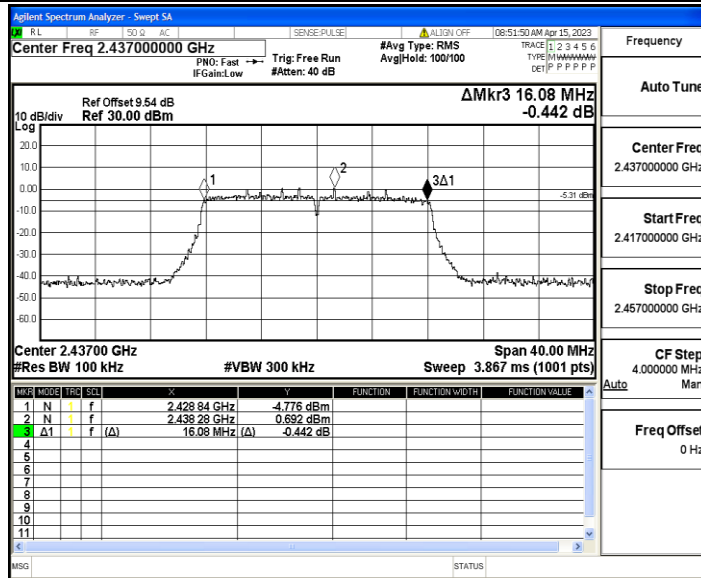
11G_Ant1_2412



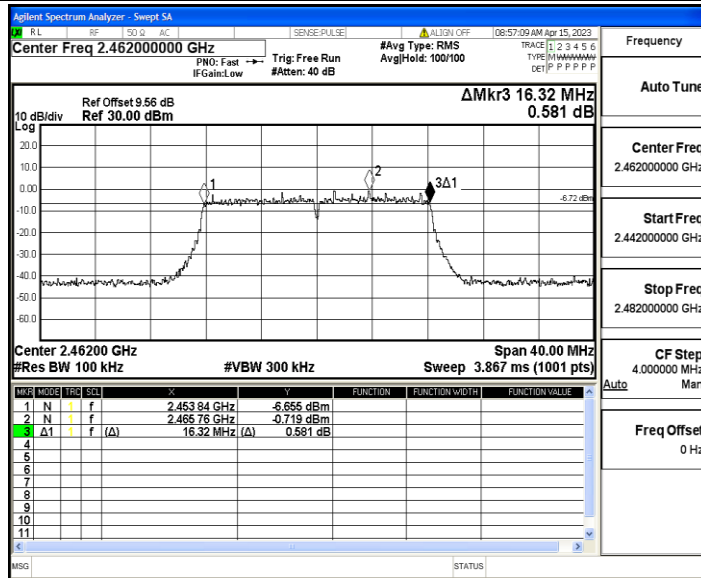
11G_Ant2_2412



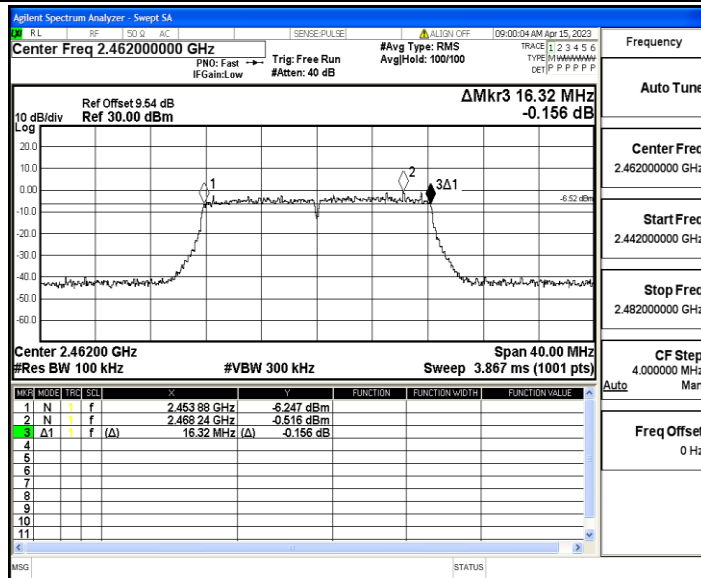
11G_Ant1_2437



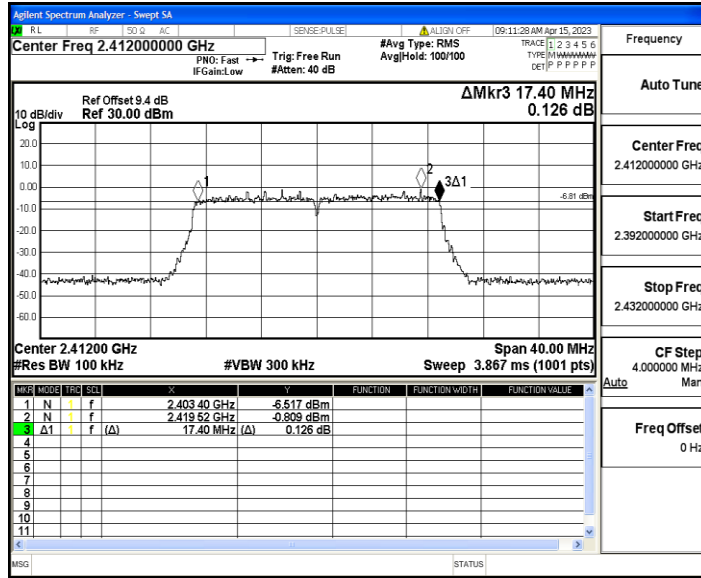
11G_Ant2_2437



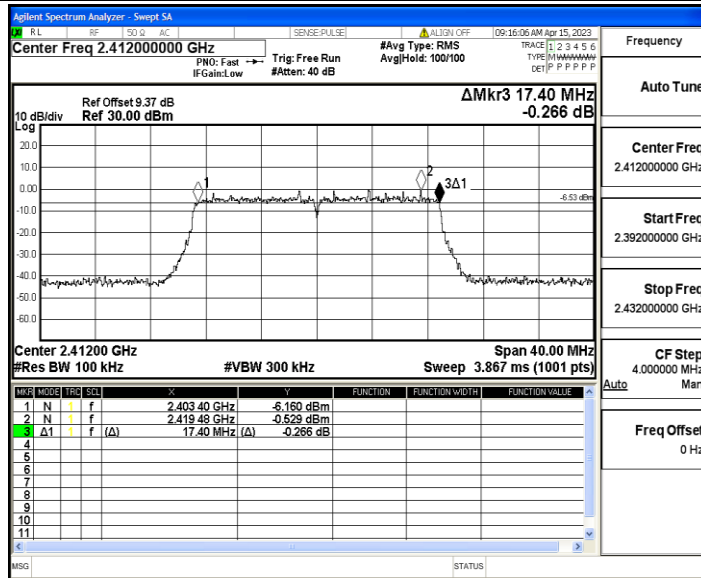
11G_Ant1_2462



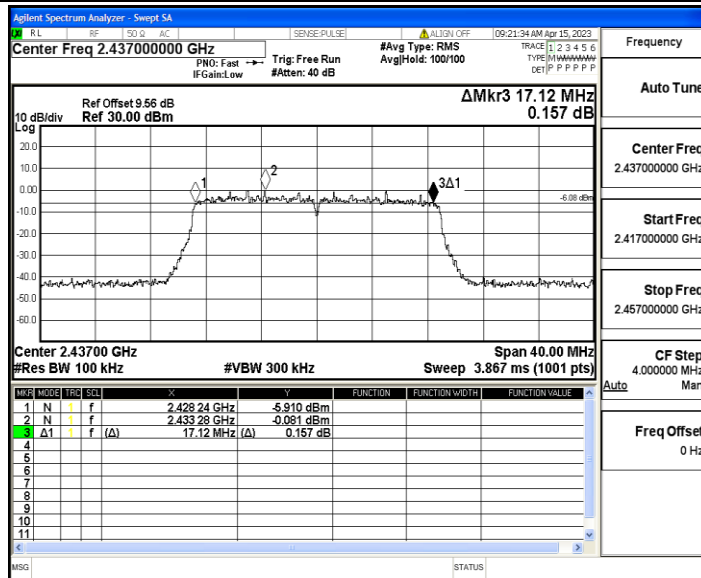
11G_Ant2_2462



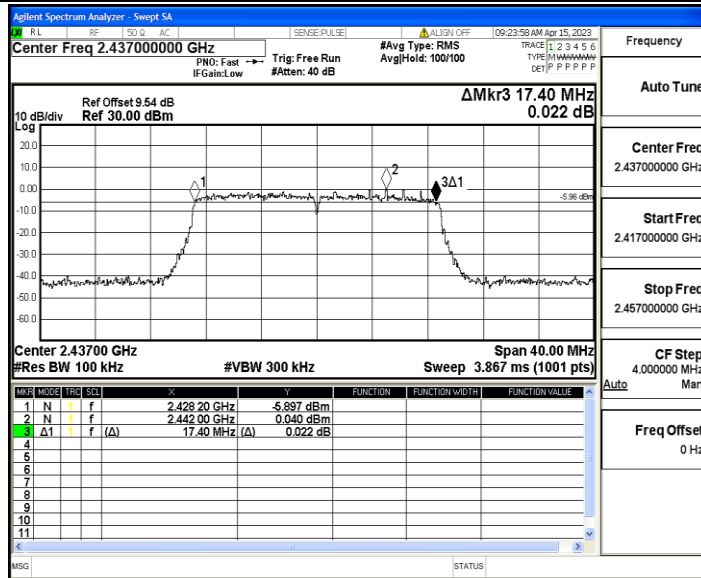
11N20MIMO_Ant1_2412



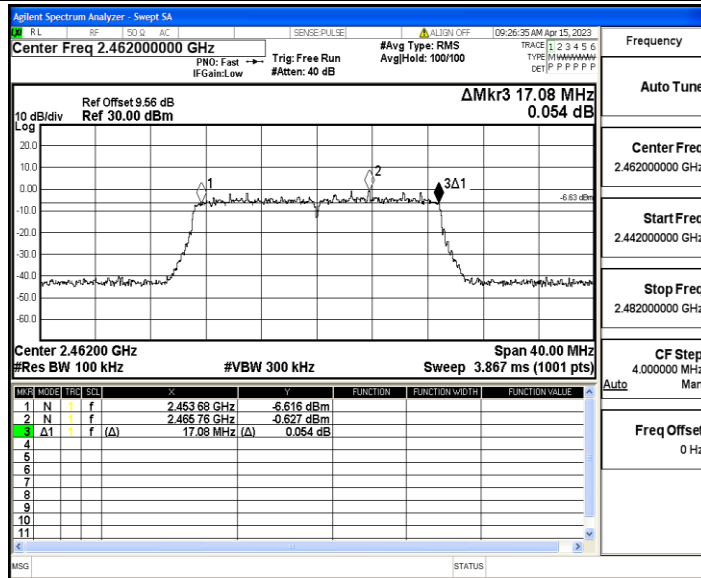
11N20MIMO_Ant2_2412



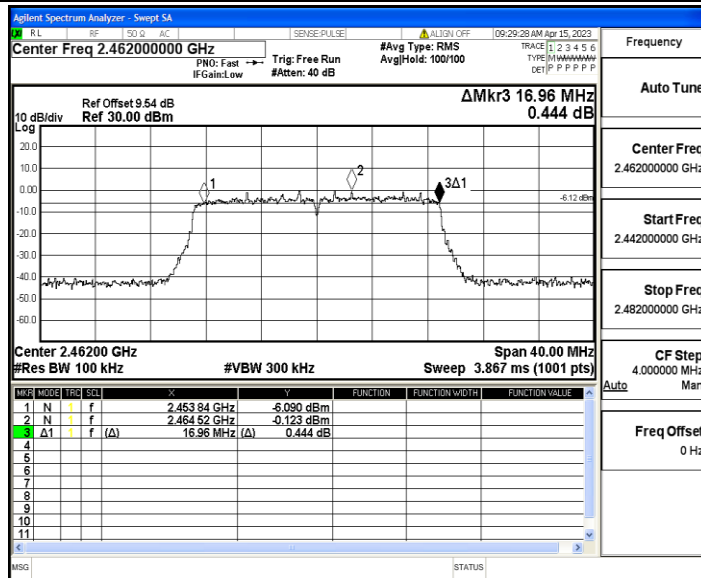
11N20MIMO_Ant1_2437



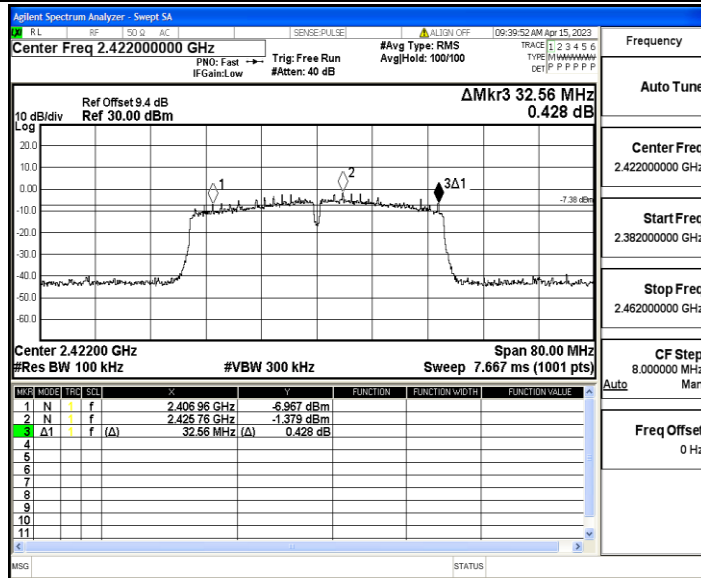
11N20MIMO_Ant2_2437



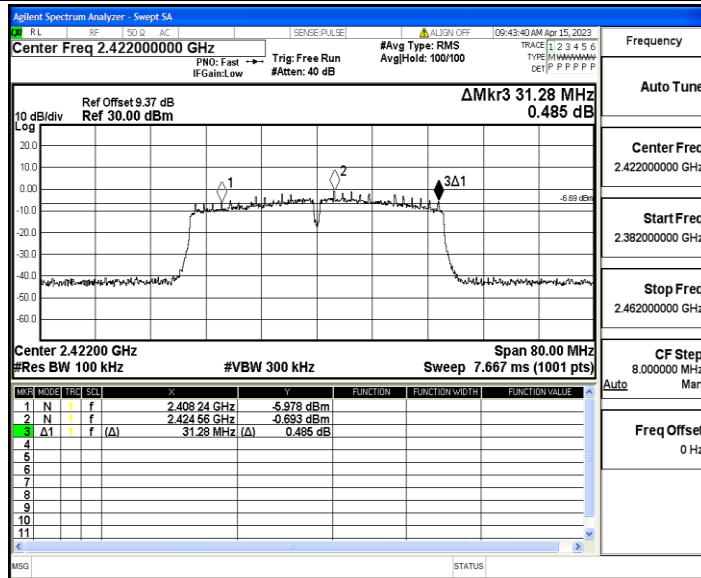
11N20MIMO_Ant1_2462



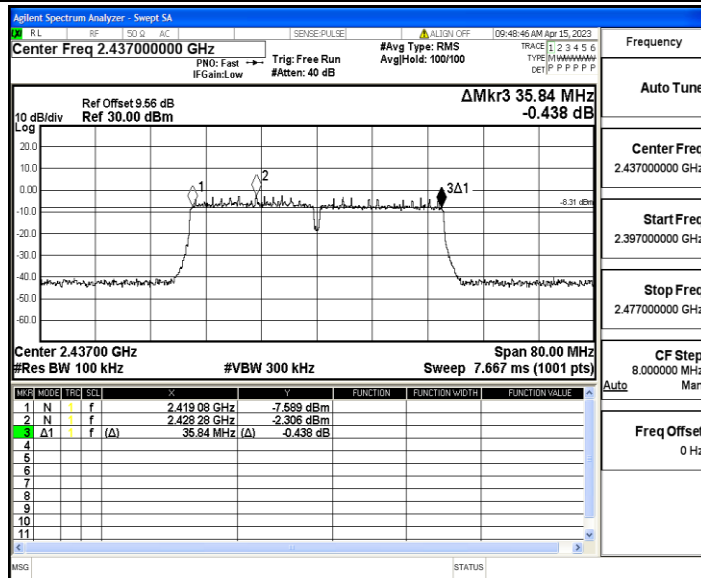
11N20MIMO_Ant2_2462



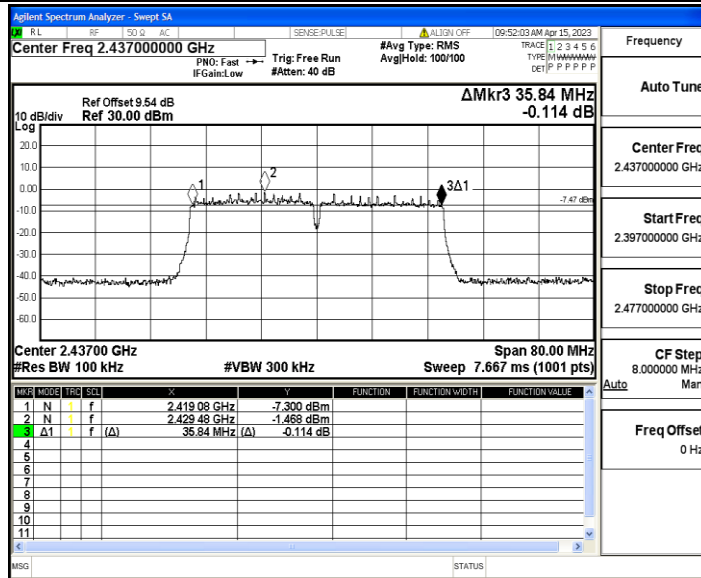
11N40MIMO_Ant1_2422



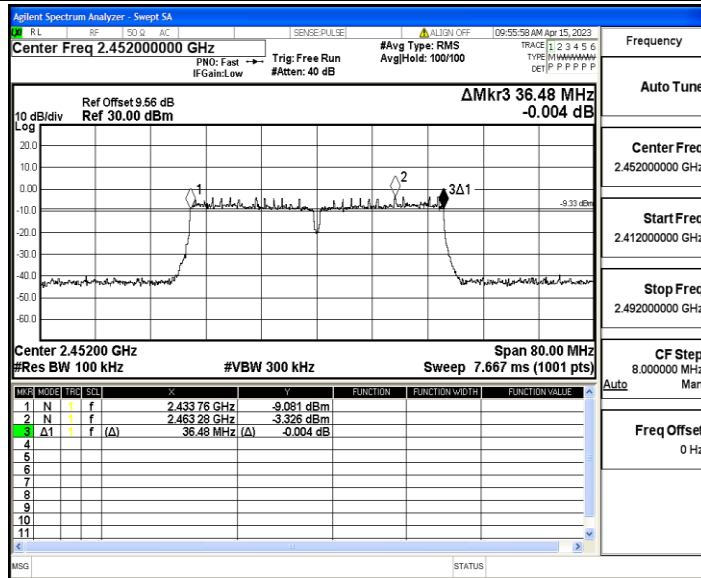
11N40MIMO_Ant2_2422



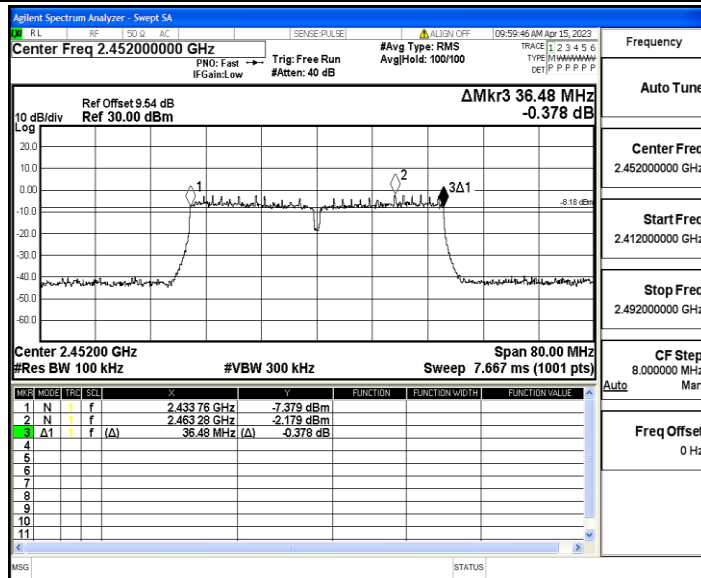
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



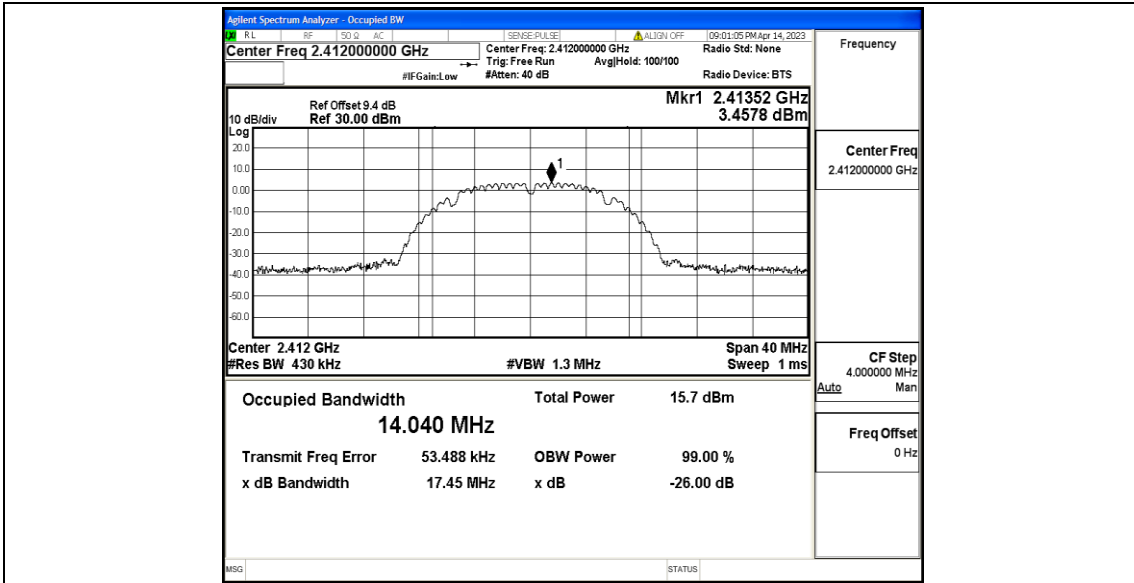
11N40MIMO_Ant2_2452

Appendix B: Occupied Channel Bandwidth

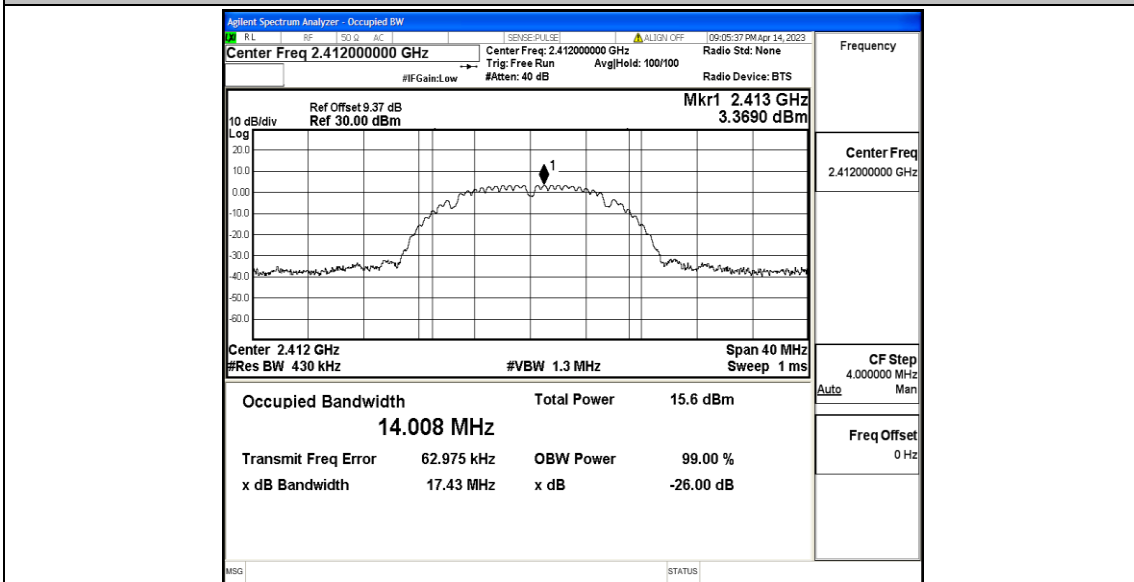
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.040	2405.0335	2419.0735	---	---
	Ant2	2412	14.008	2405.0590	2419.0670	---	---
	Ant1	2437	14.887	2429.4808	2444.3678	---	---
	Ant2	2437	14.860	2429.4800	2444.3400	---	---
	Ant1	2462	14.997	2454.6116	2469.6086	---	---
	Ant2	2462	14.961	2454.6245	2469.5855	---	---
11G	Ant1	2412	16.237	2403.9384	2420.1754	---	---
	Ant2	2412	16.273	2403.9072	2420.1802	---	---
	Ant1	2437	16.461	2428.7635	2445.2245	---	---
	Ant2	2437	16.492	2428.7539	2445.2459	---	---
	Ant1	2462	16.466	2453.8191	2470.2851	---	---
	Ant2	2462	16.516	2453.8207	2470.3367	---	---
11N20MIMO	Ant1	2412	17.643	2403.2335	2420.8765	---	---
	Ant2	2412	17.648	2403.2142	2420.8622	---	---
	Ant1	2437	17.569	2428.1968	2445.7658	---	---
	Ant2	2437	17.573	2428.1970	2445.7700	---	---
	Ant1	2462	17.599	2453.2530	2470.8520	---	---
	Ant2	2462	17.590	2453.2707	2470.8607	---	---
11N40MIMO	Ant1	2422	35.535	2404.3563	2439.8913	---	---
	Ant2	2422	35.584	2404.3182	2439.9022	---	---
	Ant1	2437	36.198	2418.9328	2455.1308	---	---
	Ant2	2437	36.161	2418.9618	2455.1228	---	---
	Ant1	2452	36.317	2433.9264	2470.2434	---	---
	Ant2	2452	36.380	2433.8696	2470.2496	---	---

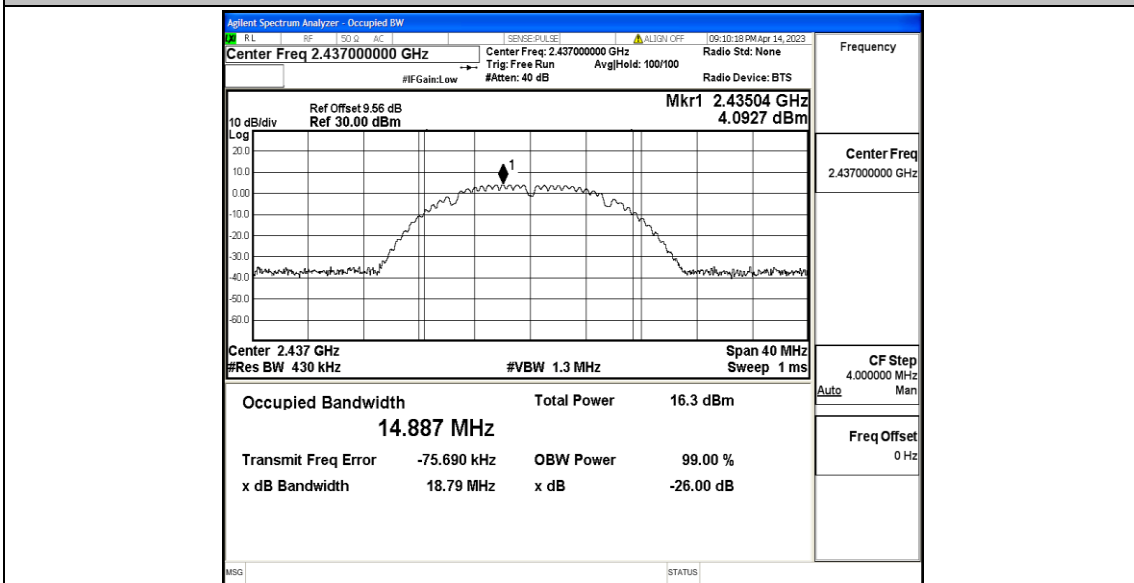
Test Graphs



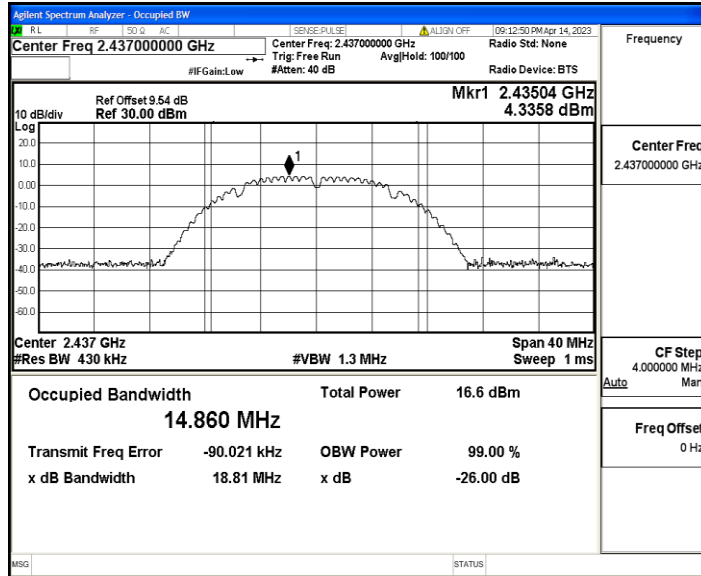
11B_Ant1_2412



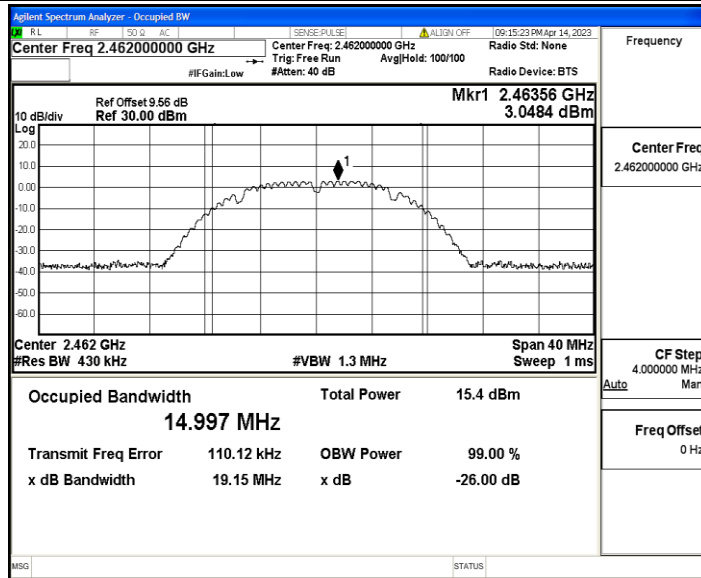
11B_Ant2_2412



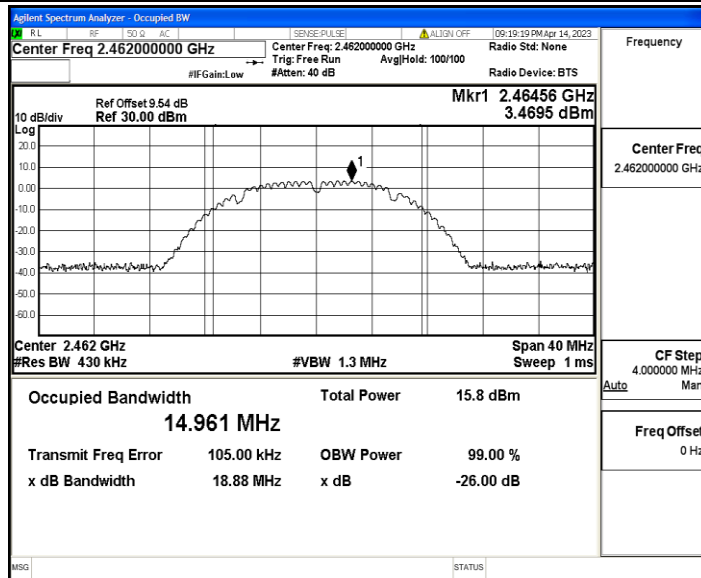
11B_Ant1_2437



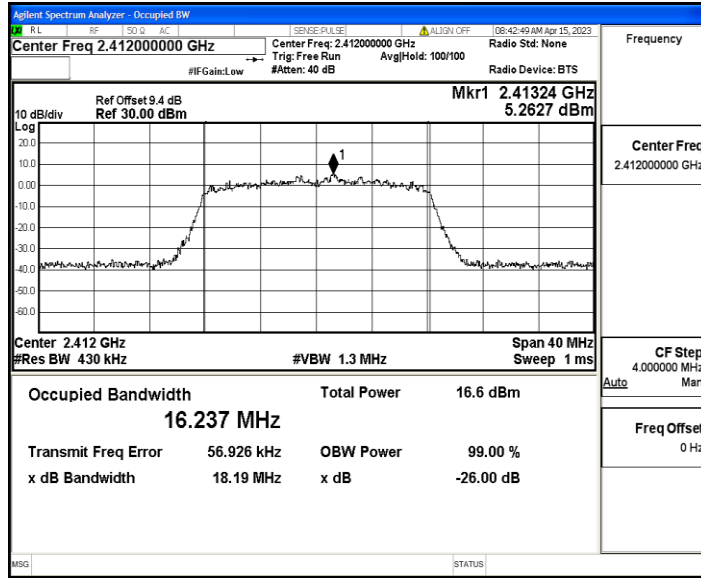
11B_Ant2_2437



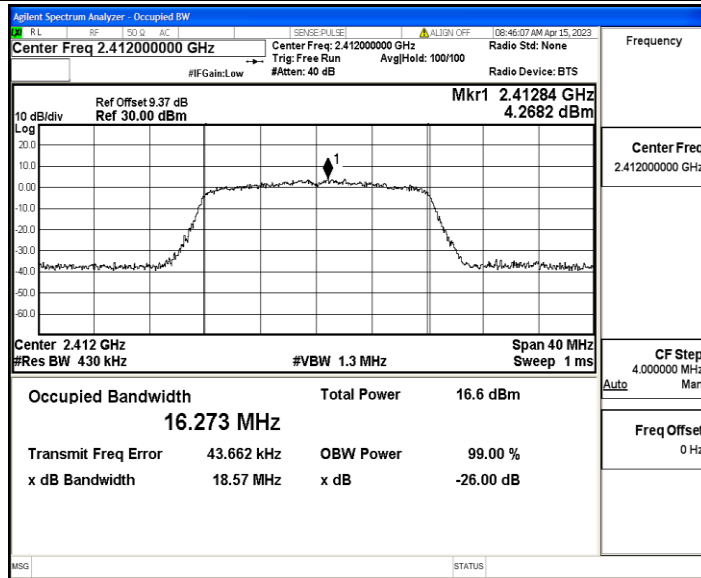
11B_Ant1_2462



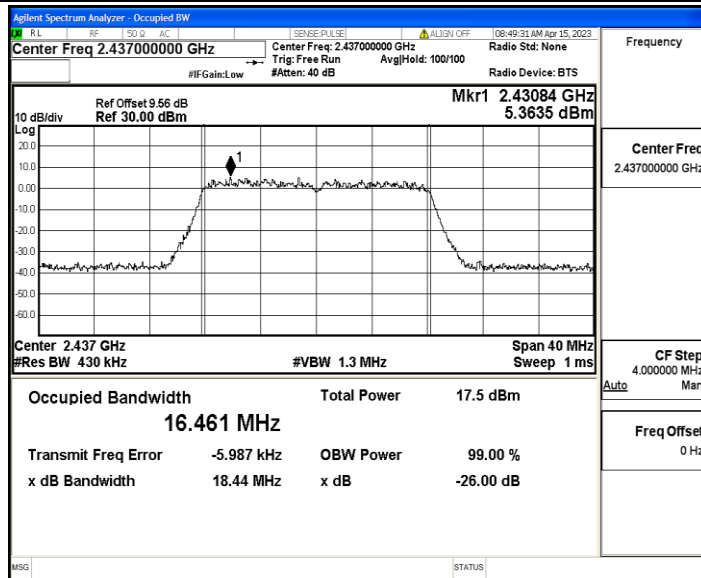
11B_Ant2_2462



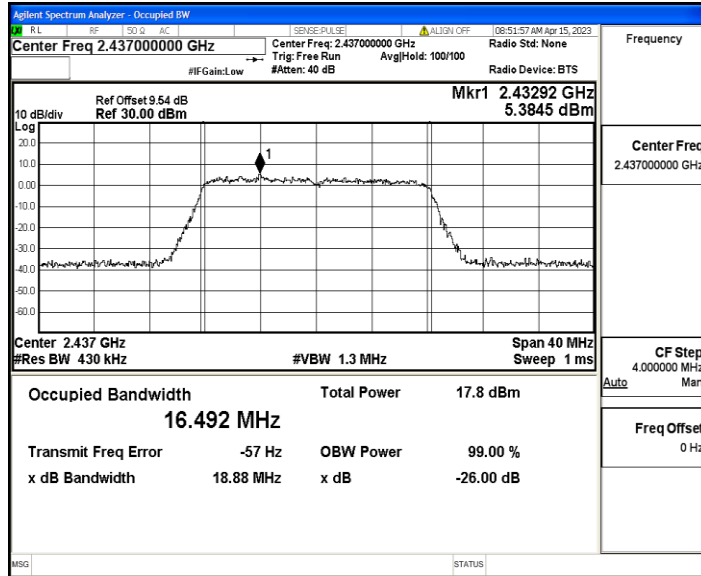
11G_Ant1_2412



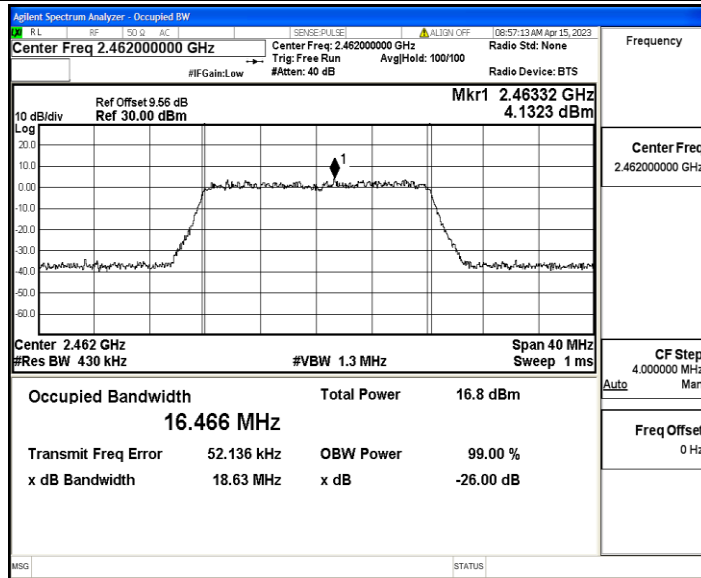
11G_Ant2_2412



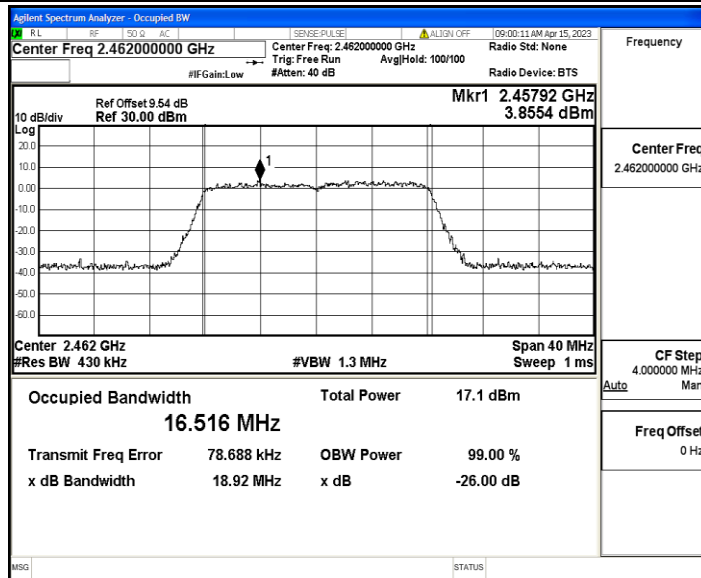
11G_Ant1_2437



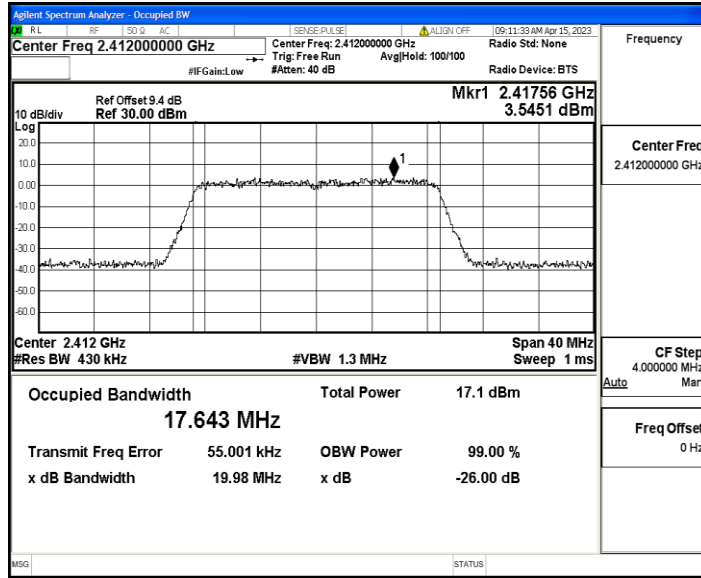
11G_Ant2_2437



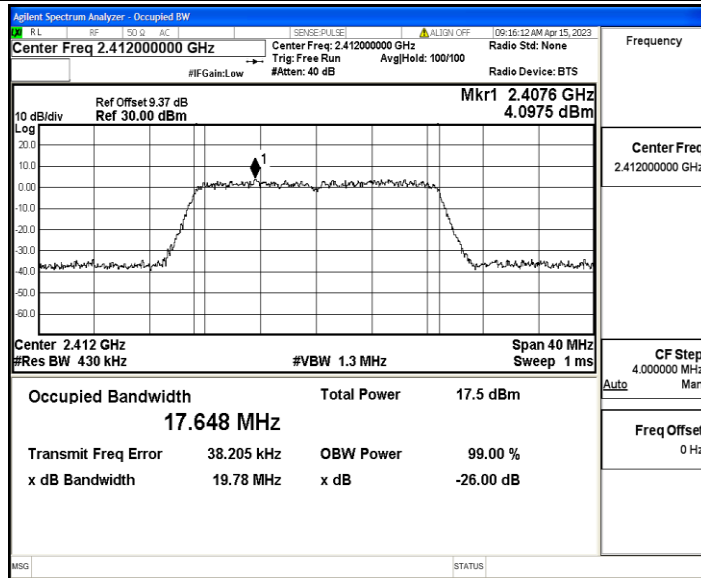
11G_Ant1_2462



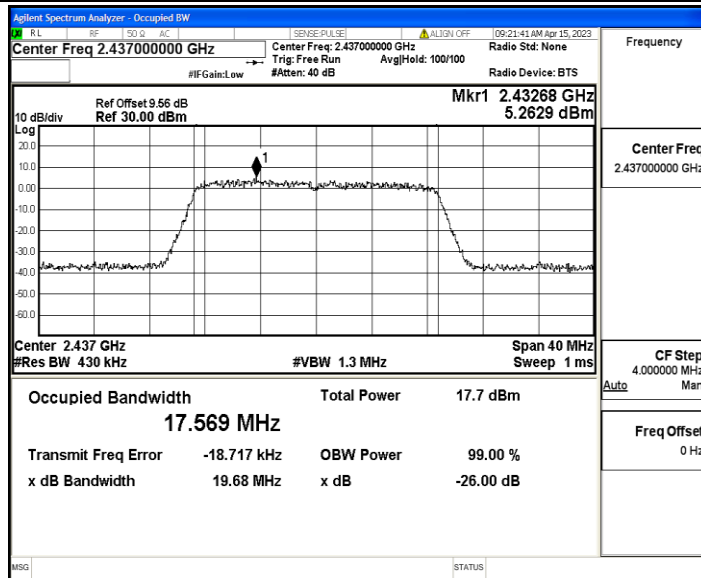
11G_Ant2_2462



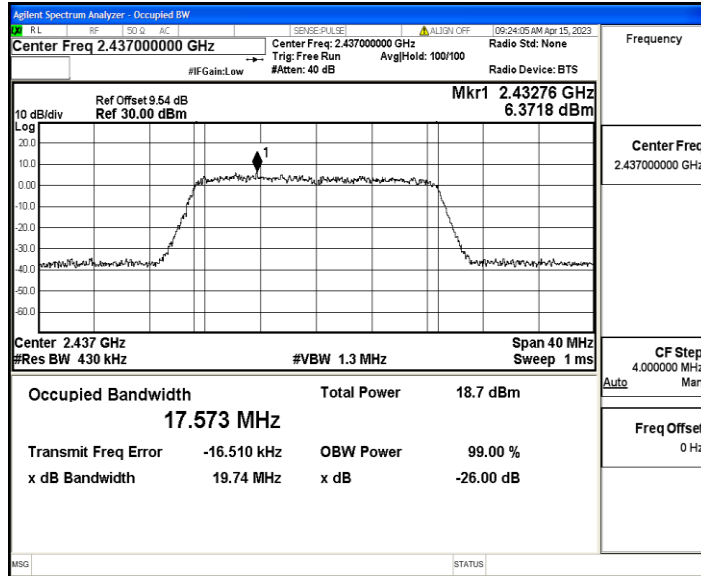
11N20MIMO_Ant1_2412



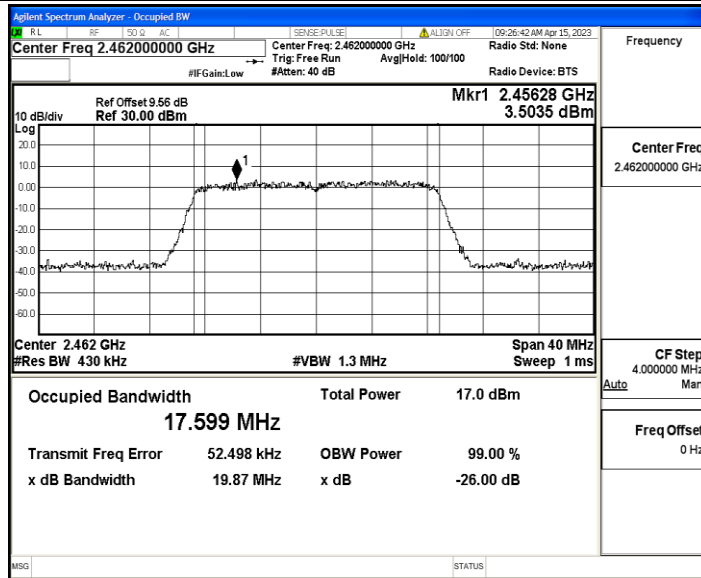
11N20MIMO_Ant2_2412



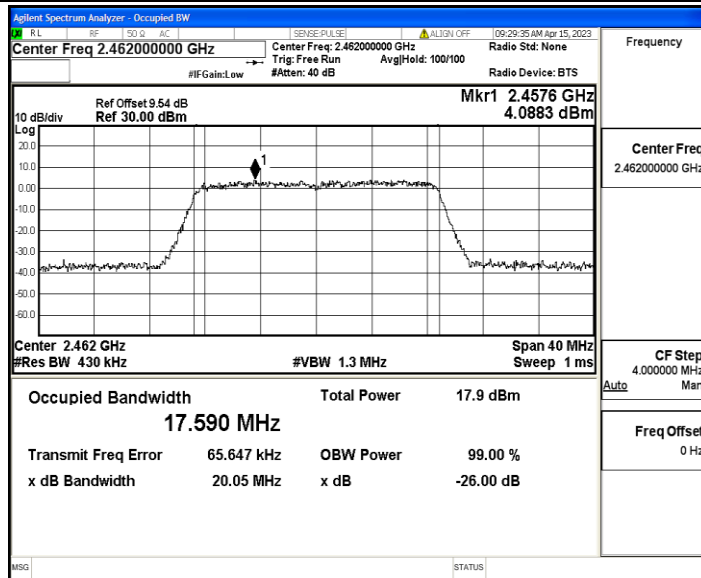
11N20MIMO_Ant1_2437



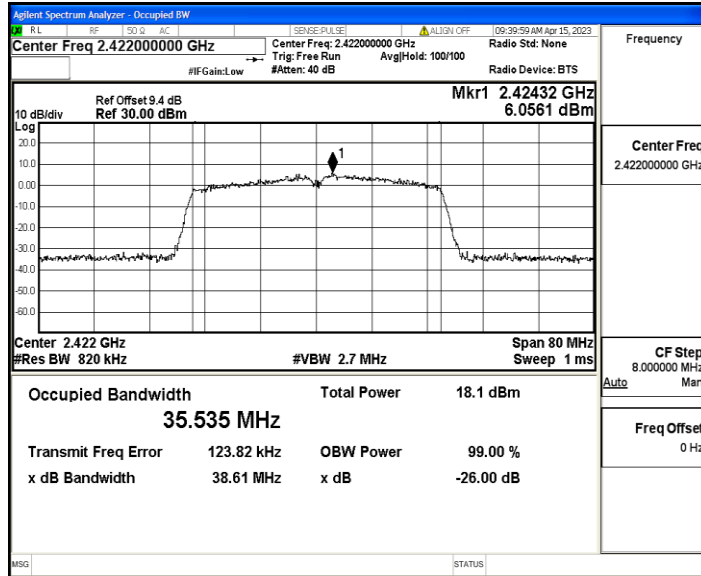
11N20MIMO_Ant2_2437



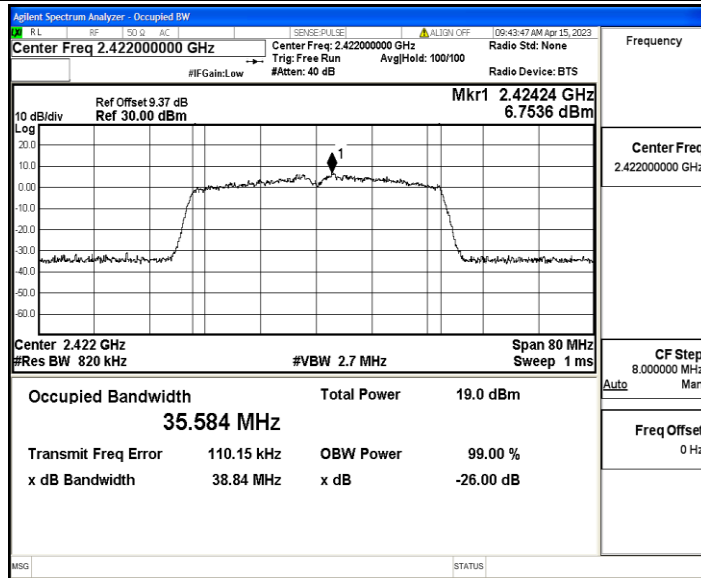
11N20MIMO_Ant1_2462



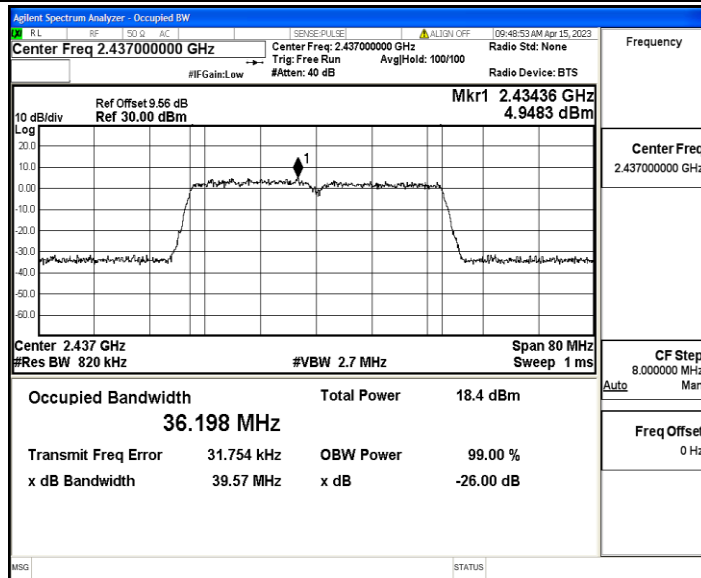
11N20MIMO_Ant2_2462



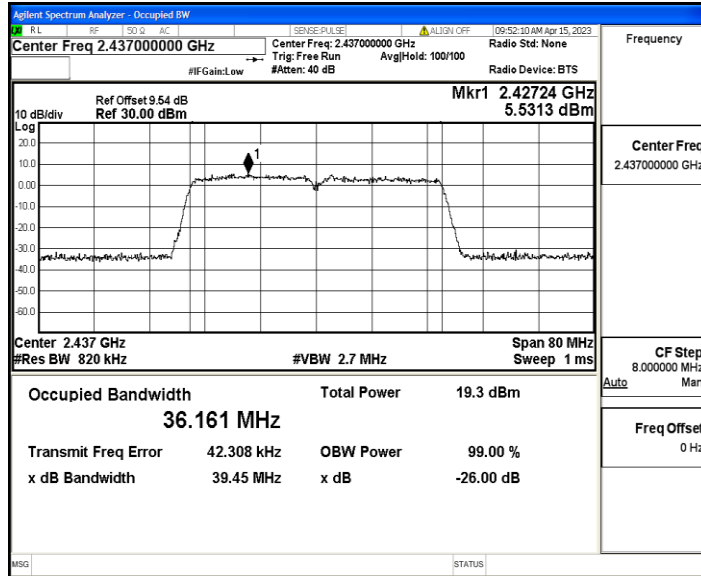
11N40MIMO_Ant1_2422



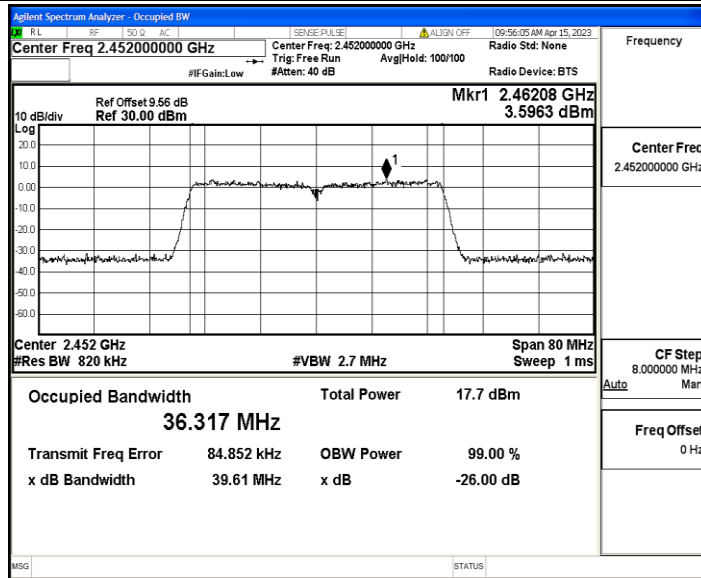
11N40MIMO_Ant2_2422



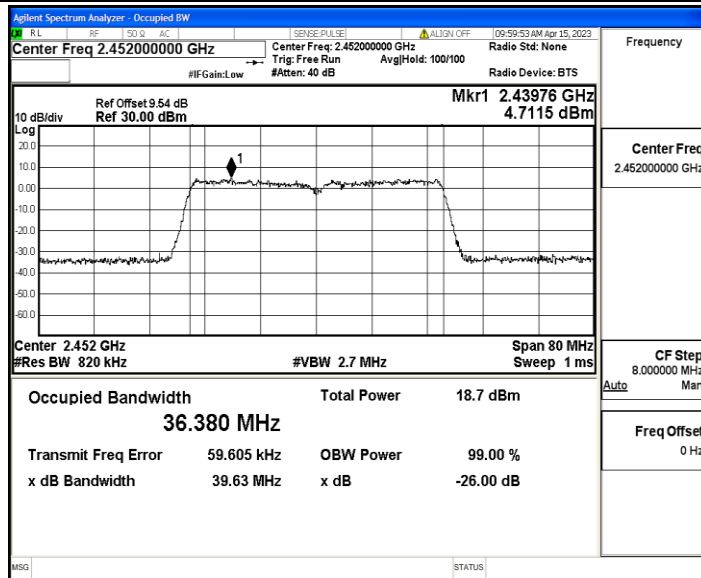
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452

Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	12.62	≤30.00	PASS
	Ant2	2412	12.60	≤30.00	PASS
	Ant1	2437	13.34	≤30.00	PASS
	Ant2	2437	13.48	≤30.00	PASS
	Ant1	2462	12.32	≤30.00	PASS
	Ant2	2462	12.74	≤30.00	PASS
11G	Ant1	2412	10.12	≤30.00	PASS
	Ant2	2412	10.77	≤30.00	PASS
	Ant1	2437	11.05	≤30.00	PASS
	Ant2	2437	11.86	≤30.00	PASS
	Ant1	2462	10.40	≤30.00	PASS
	Ant2	2462	11.20	≤30.00	PASS
11N20MIMO	Ant1	2412	10.47	≤30.00	PASS
	Ant2	2412	10.98	≤30.00	PASS
	total	2412	13.74	≤30.00	PASS
	Ant1	2437	11.11	≤30.00	PASS
	Ant2	2437	12.07	≤30.00	PASS
	total	2437	14.63	≤30.00	PASS
	Ant1	2462	10.30	≤30.00	PASS
	Ant2	2462	11.24	≤30.00	PASS
total	2462	13.81	≤30.00	PASS	
11N40MIMO	Ant1	2422	10.87	≤30.00	PASS
	Ant2	2422	11.72	≤30.00	PASS
	total	2422	14.33	≤30.00	PASS
	Ant1	2437	11.06	≤30.00	PASS
	Ant2	2437	12.19	≤30.00	PASS
	total	2437	14.67	≤30.00	PASS
	Ant1	2452	10.52	≤30.00	PASS
	Ant2	2452	11.70	≤30.00	PASS
	total	2452	14.16	≤30.00	PASS

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

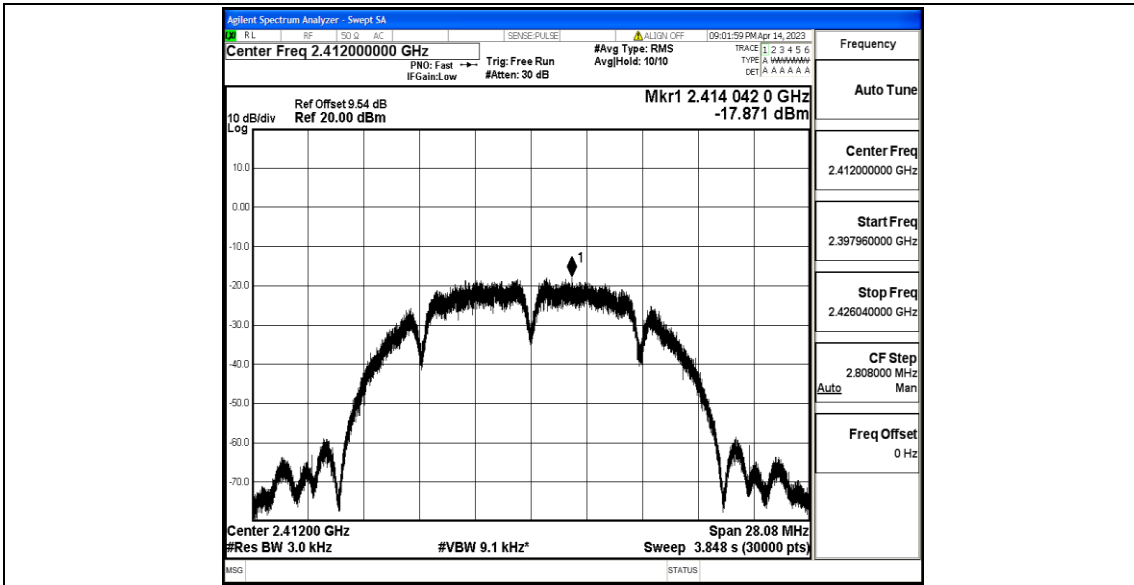
Appendix D: Maximum power spectral density

Test Result

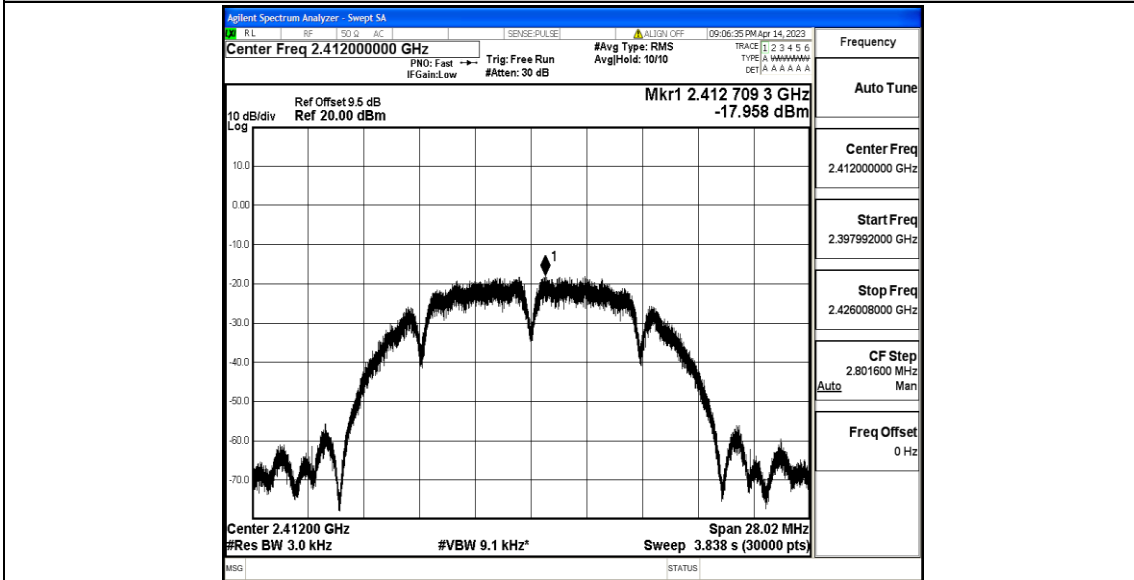
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.87	≤8.00	PASS
	Ant2	2412	-17.96	≤8.00	PASS
	Ant1	2437	-17.06	≤8.00	PASS
	Ant2	2437	-15.27	≤8.00	PASS
	Ant1	2462	-18.12	≤8.00	PASS
	Ant2	2462	-17.28	≤8.00	PASS
11G	Ant1	2412	-20.59	≤8.00	PASS
	Ant2	2412	-19.05	≤8.00	PASS
	Ant1	2437	-19.98	≤8.00	PASS
	Ant2	2437	-18.87	≤8.00	PASS
	Ant1	2462	-21.35	≤8.00	PASS
	Ant2	2462	-20.04	≤8.00	PASS
11N20MIMO	Ant1	2412	-21.65	≤8.00	PASS
	Ant2	2412	-20.36	≤8.00	PASS
	total	2412	-17.95	≤8.00	PASS
	Ant1	2437	-21.3	≤8.00	PASS
	Ant2	2437	-19.26	≤8.00	PASS
	total	2437	-17.15	≤8.00	PASS
	Ant1	2462	-21.48	≤8.00	PASS
	Ant2	2462	-20.61	≤8.00	PASS
	total	2462	-18.01	≤8.00	PASS
11N40MIMO	Ant1	2422	-21.76	≤8.00	PASS
	Ant2	2422	-19.63	≤8.00	PASS
	total	2422	-17.56	≤8.00	PASS
	Ant1	2437	-23.16	≤8.00	PASS
	Ant2	2437	-21.29	≤8.00	PASS
	total	2437	-19.11	≤8.00	PASS
	Ant1	2452	-22.93	≤8.00	PASS
	Ant2	2452	-22.4	≤8.00	PASS
	total	2452	-19.65	≤8.00	PASS

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

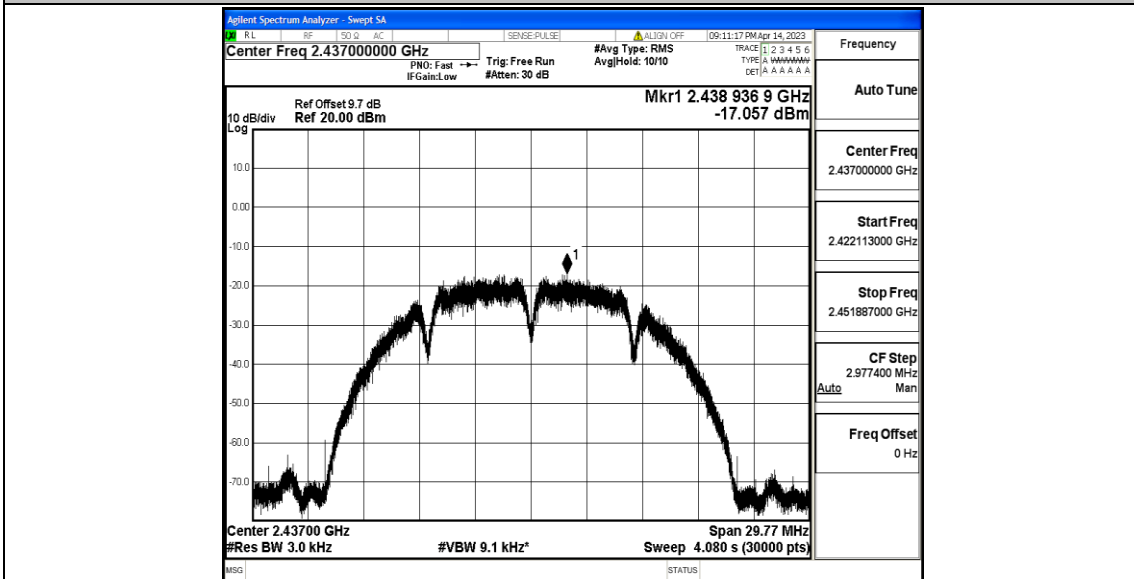
Test Graphs



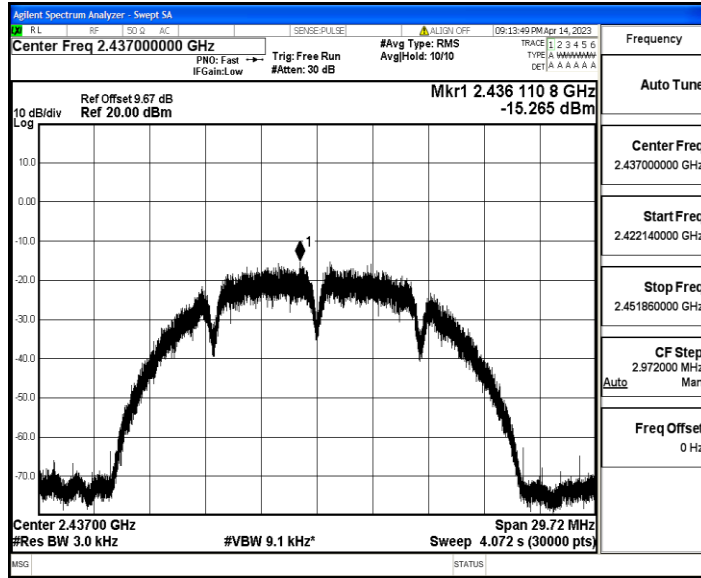
11B_Ant1_2412



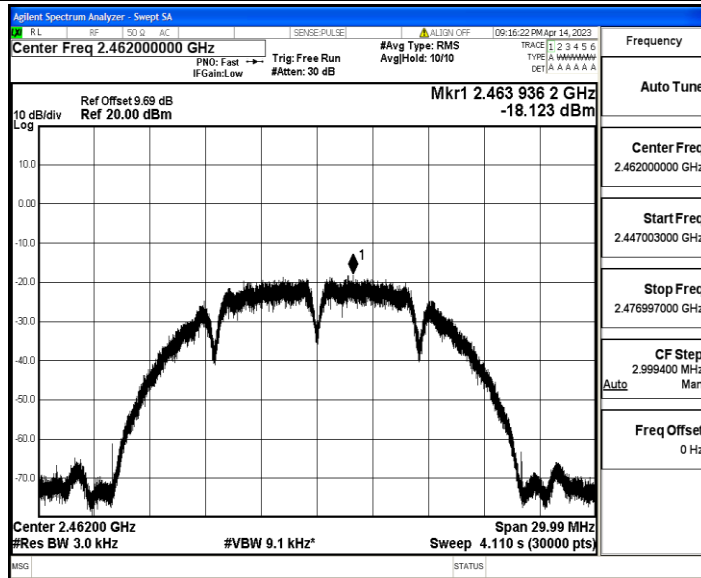
11B_Ant2_2412



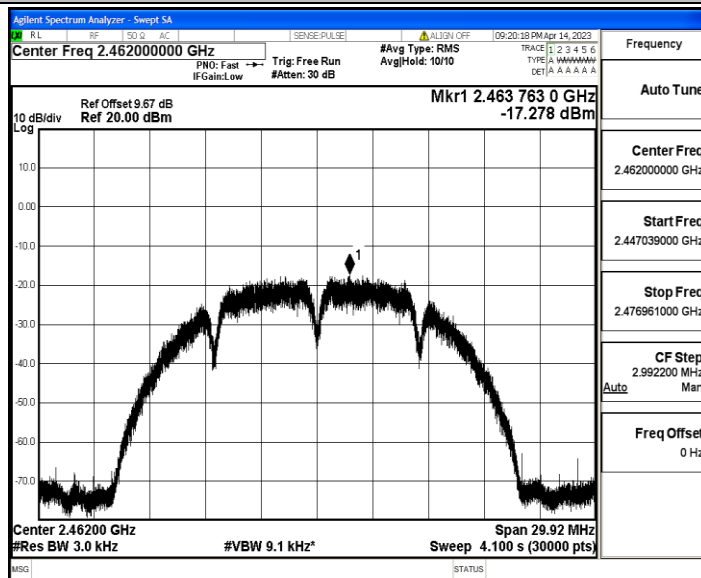
11B_Ant1_2437



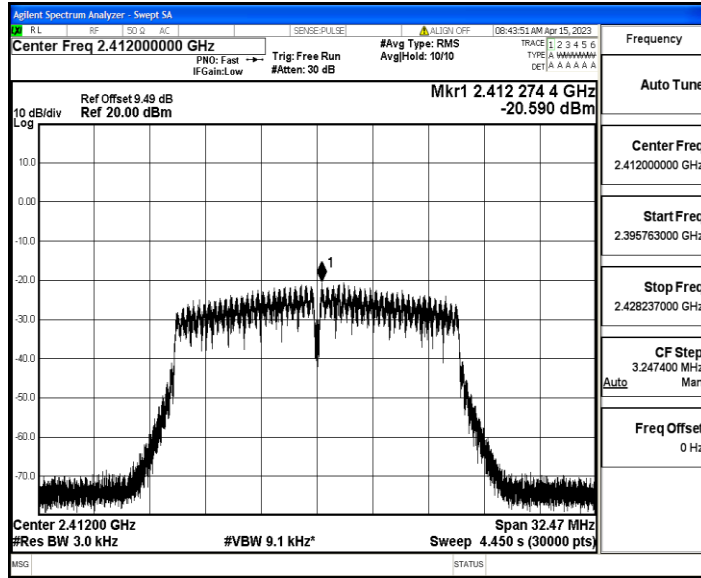
11B_Ant2_2437



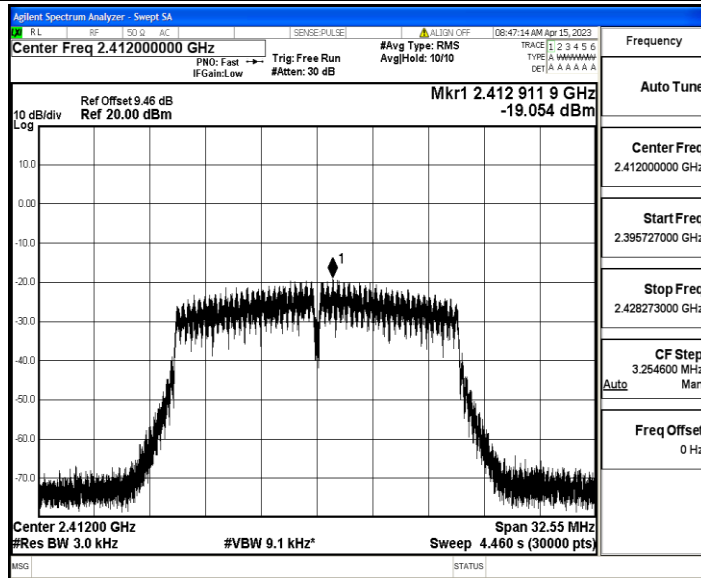
11B_Ant1_2462



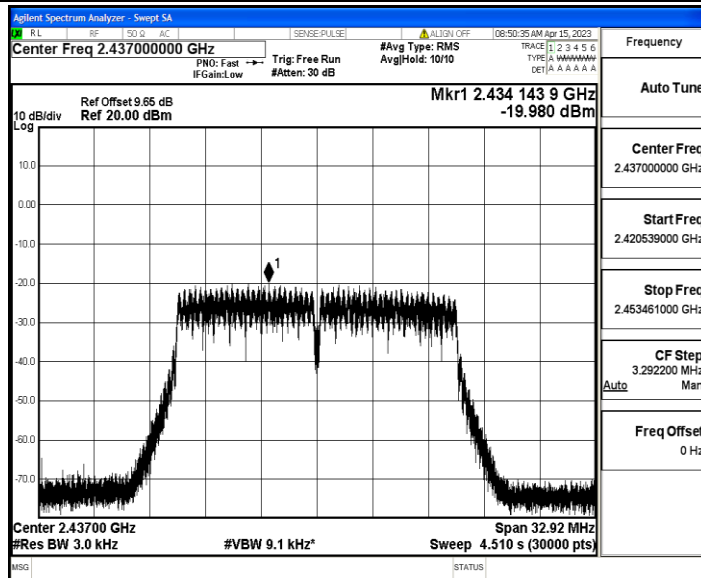
11B_Ant2_2462



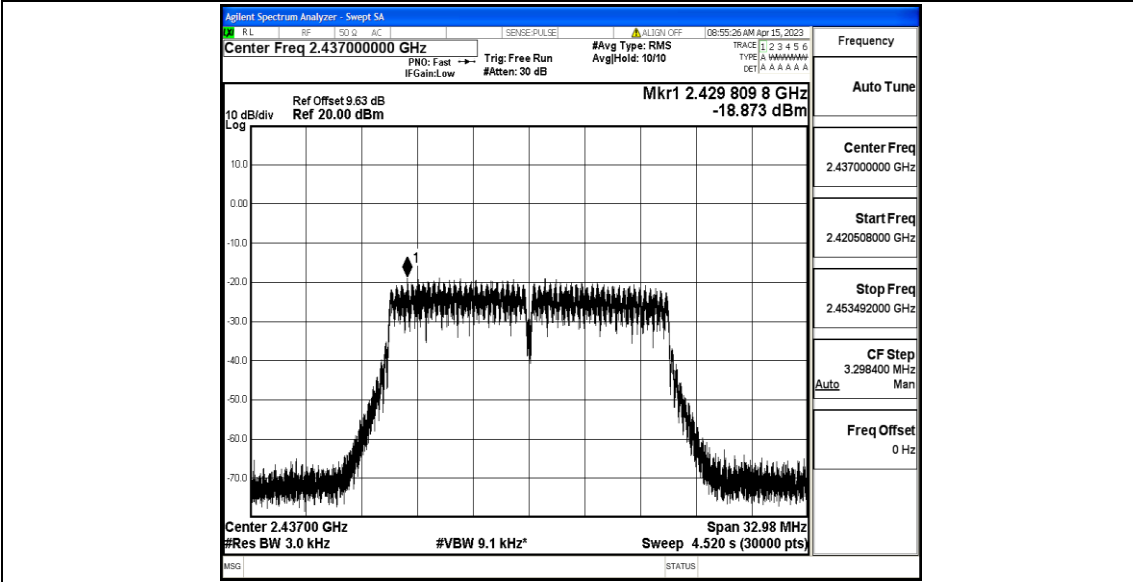
11G_Ant1_2412



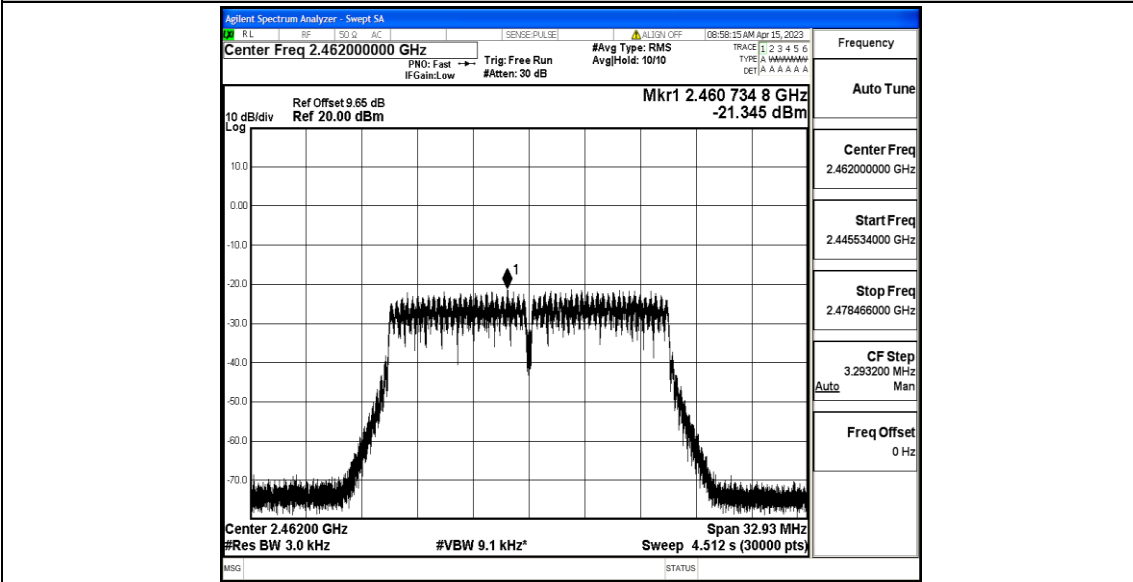
11G_Ant2_2412



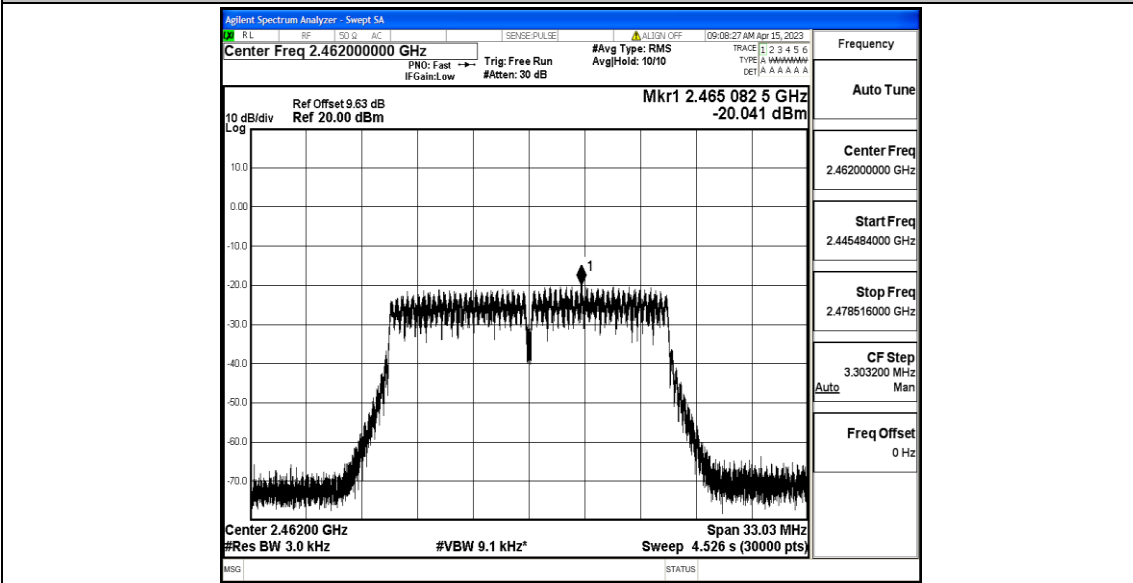
11G_Ant1_2437



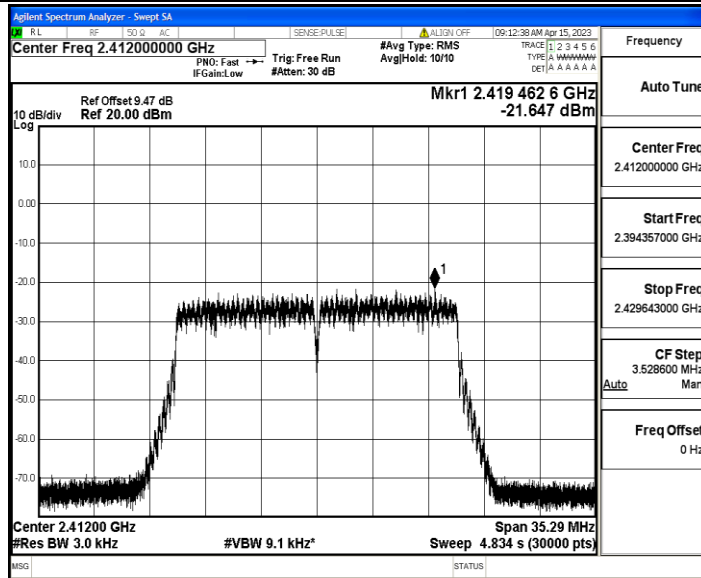
11G_Ant2_2437



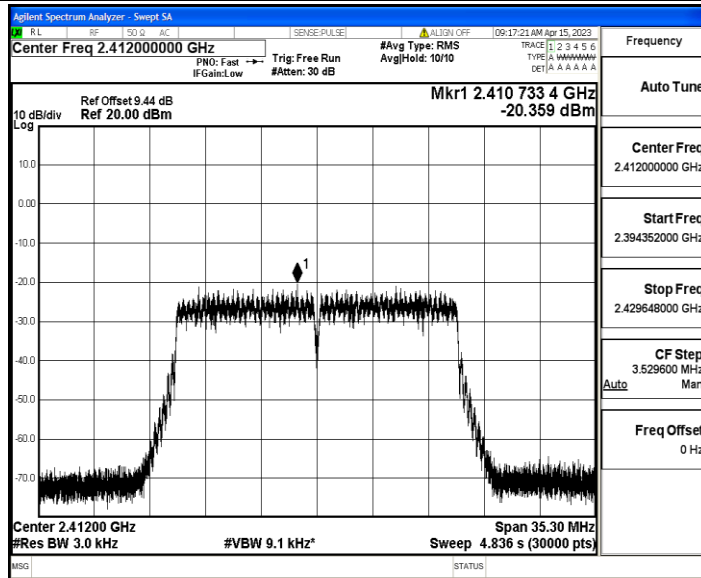
11G_Ant1_2462



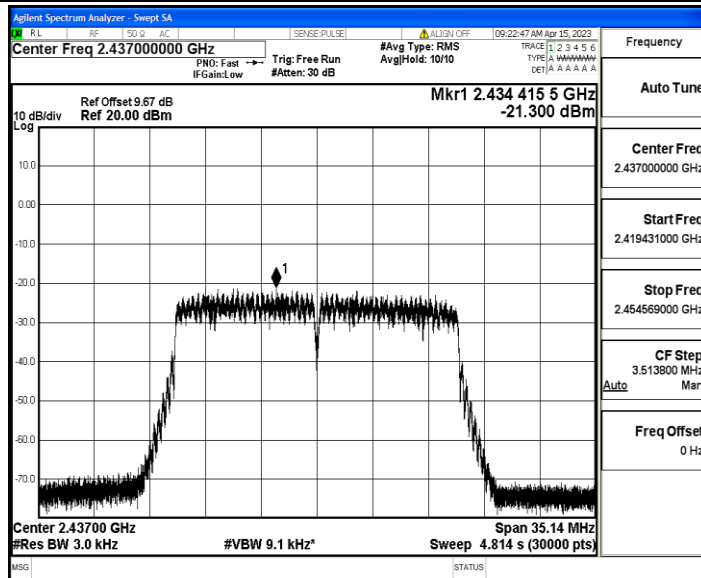
11G_Ant2_2462



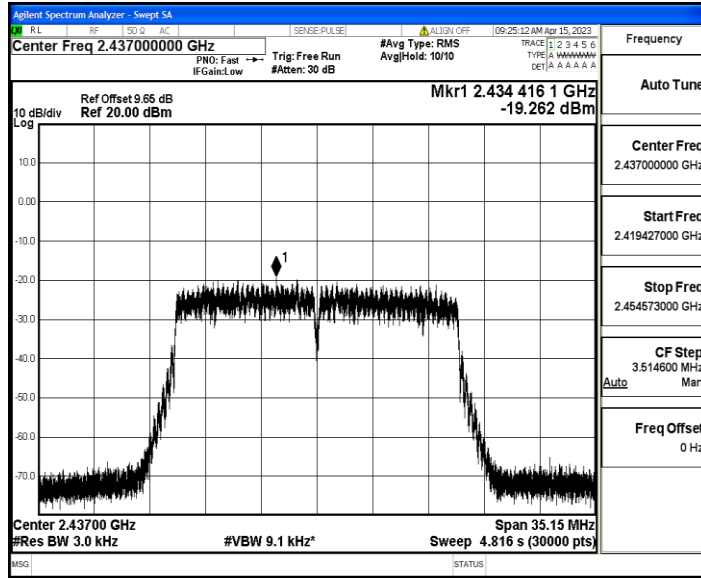
11N20MIMO_Ant1_2412



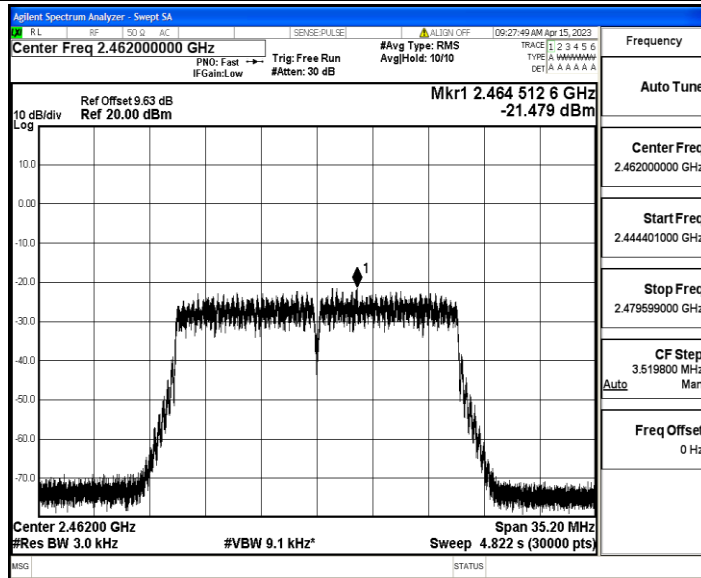
11N20MIMO_Ant2_2412



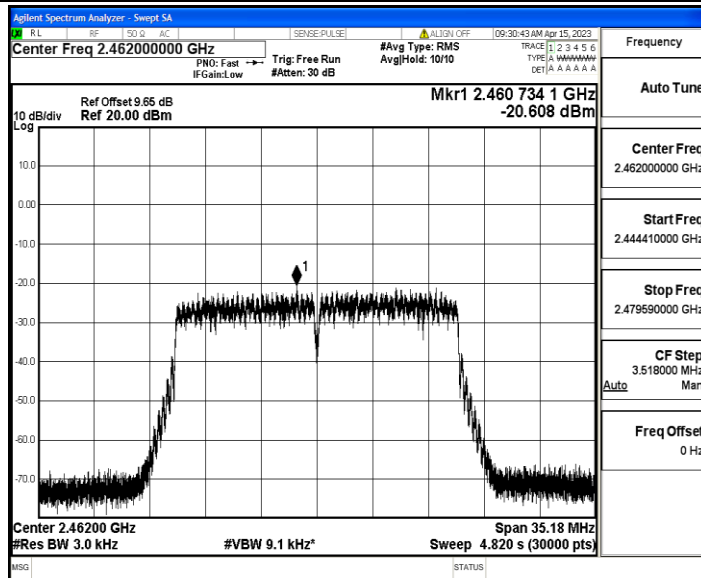
11N20MIMO_Ant1_2437



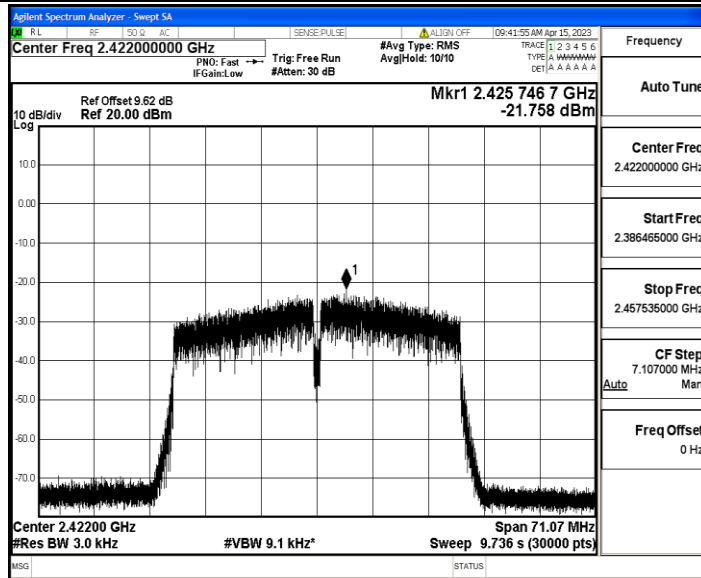
11N20MIMO_Ant2_2437



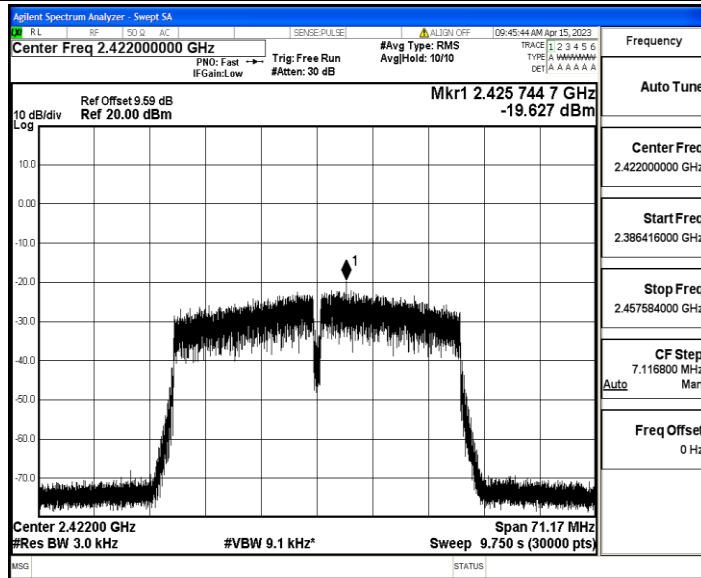
11N20MIMO_Ant1_2462



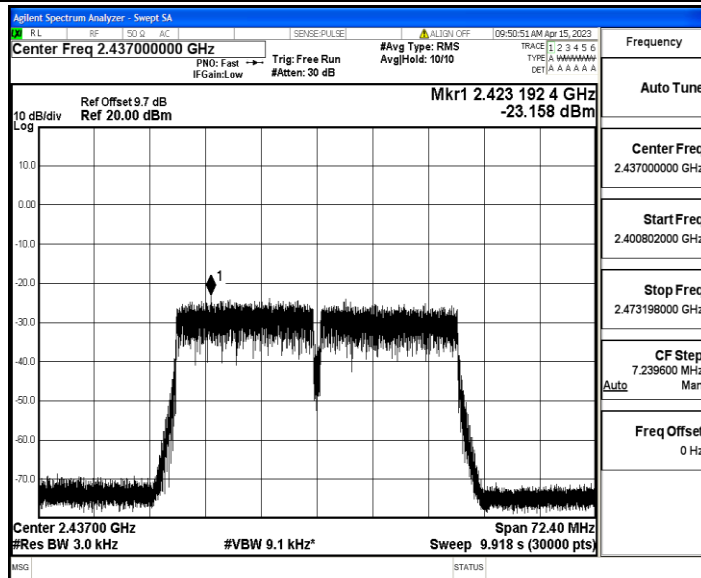
11N20MIMO_Ant2_2462



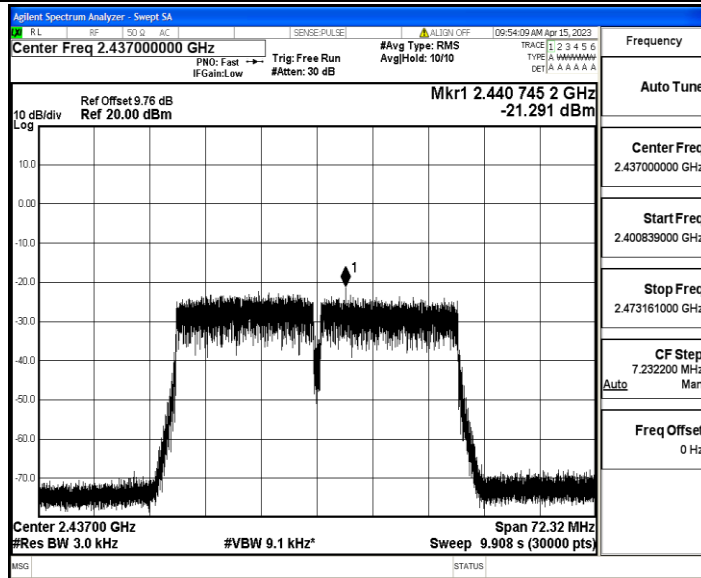
11N40MIMO_Ant1_2422



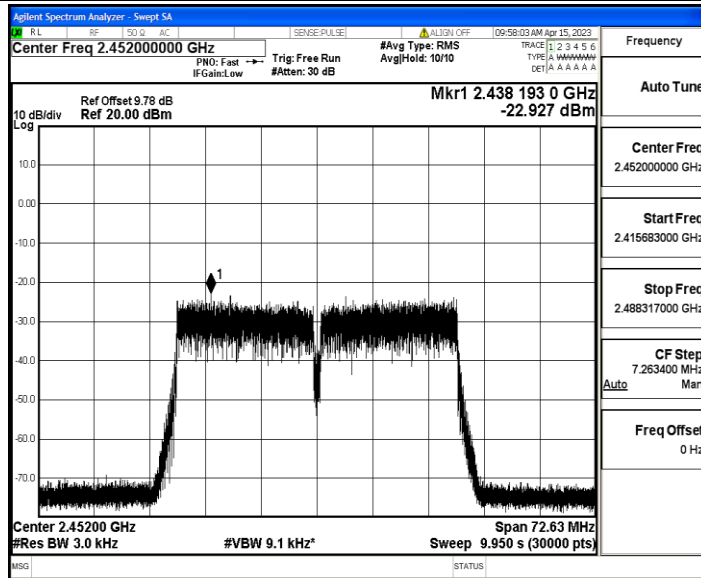
11N40MIMO_Ant2_2422



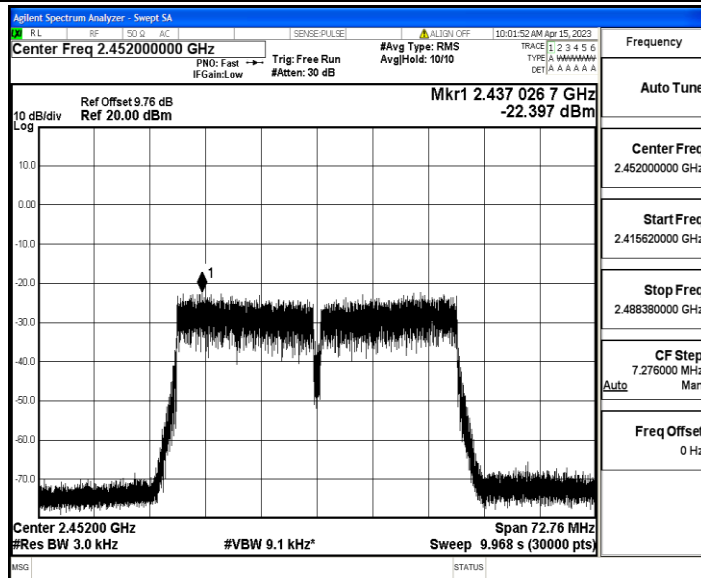
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



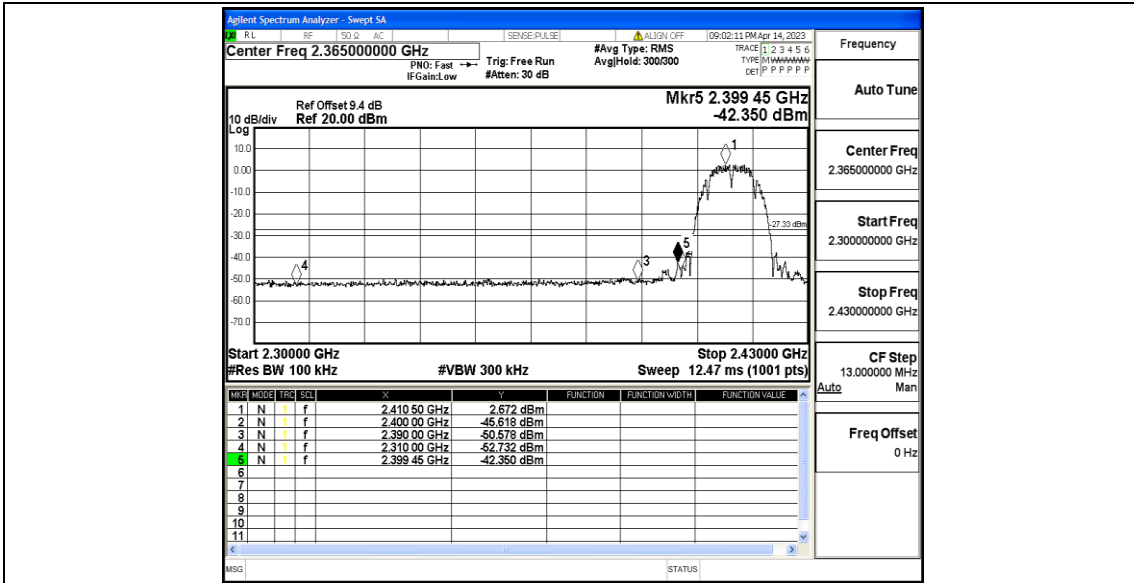
11N40MIMO_Ant2_2452

Appendix E: Band edge measurements

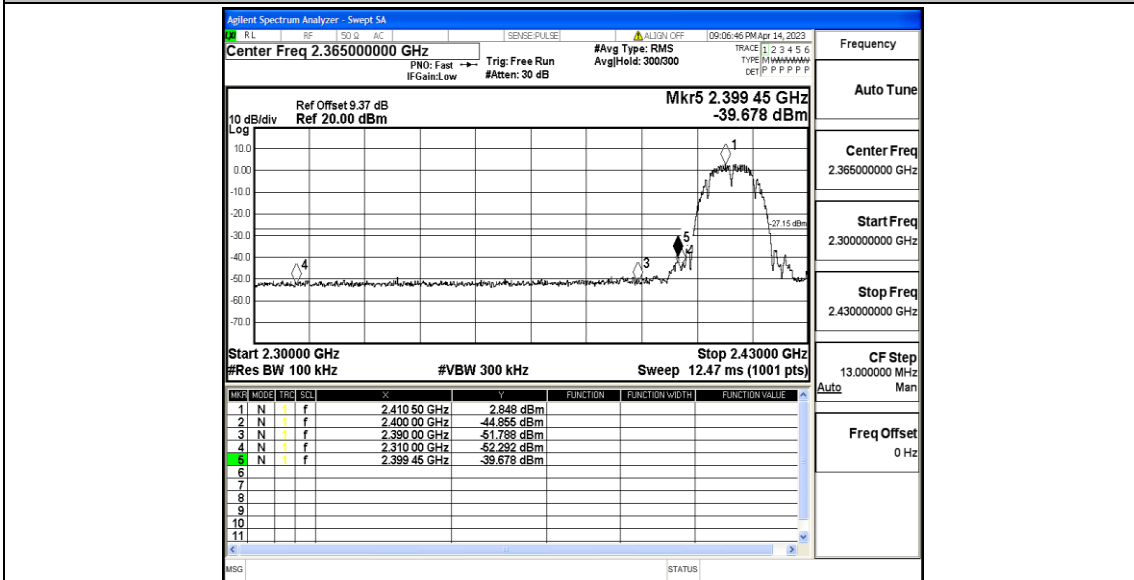
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.67	-42.35	≤-27.33	PASS
	Ant2	Low	2412	2.85	-39.68	≤-27.15	PASS
	Ant1	High	2462	2.71	-47.69	≤-27.29	PASS
	Ant2	High	2462	3.09	-48.75	≤-26.91	PASS
11G	Ant1	Low	2412	0.27	-47.91	≤-29.73	PASS
	Ant2	Low	2412	0.96	-47.47	≤-29.05	PASS
	Ant1	High	2462	-0.70	-48.58	≤-30.7	PASS
	Ant2	High	2462	0.38	-48.44	≤-29.62	PASS
11N20MIMO	Ant1	Low	2412	-0.53	-46.44	≤-30.53	PASS
	Ant2	Low	2412	-0.15	-45.04	≤-30.15	PASS
	Ant1	High	2462	-0.67	-48.85	≤-30.67	PASS
	Ant2	High	2462	0.39	-48.38	≤-29.61	PASS
11N40MIMO	Ant1	Low	2422	-1.66	-45.44	≤-31.66	PASS
	Ant2	Low	2422	-0.69	-44.63	≤-30.69	PASS
	Ant1	High	2452	-3.31	-48.72	≤-33.31	PASS
	Ant2	High	2452	-2.16	-45.44	≤-32.16	PASS

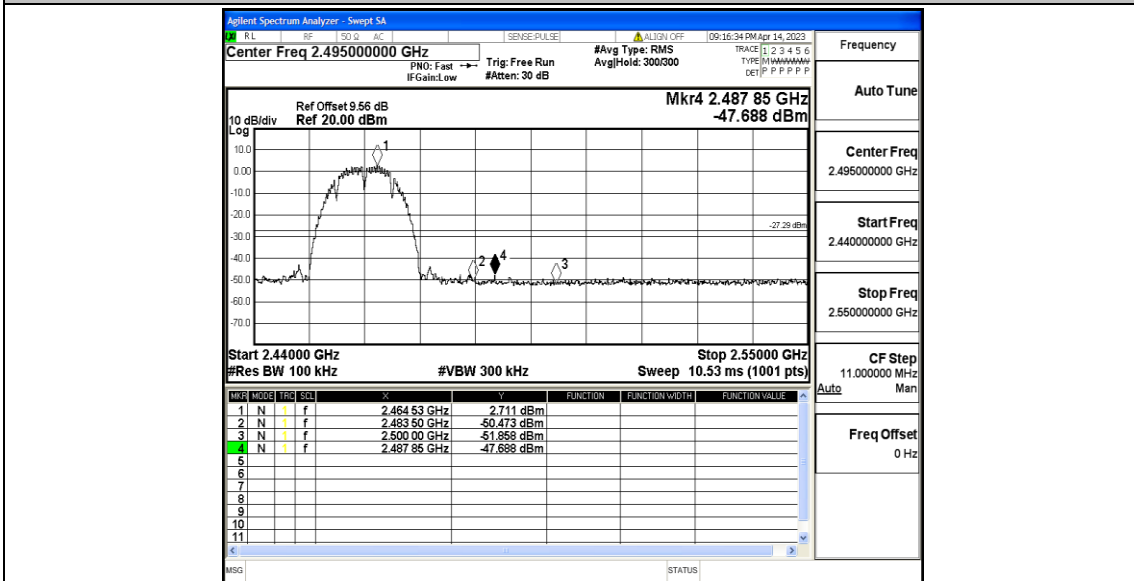
Test Graphs



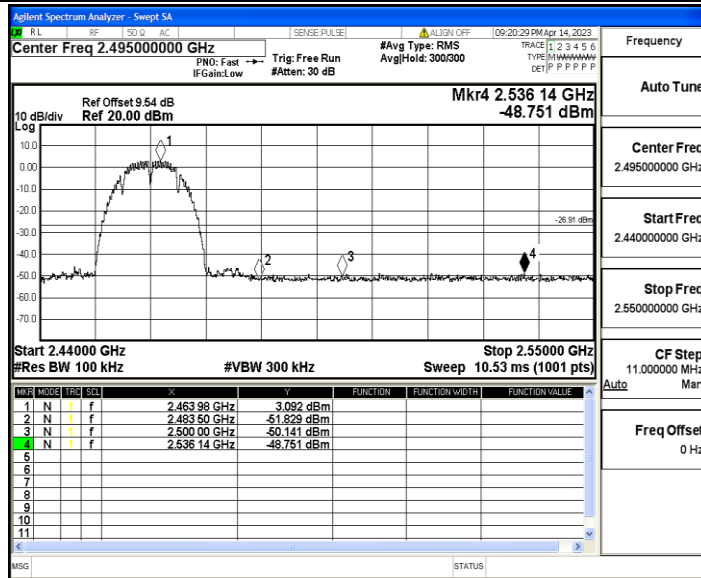
11B_Ant1_Low_2412



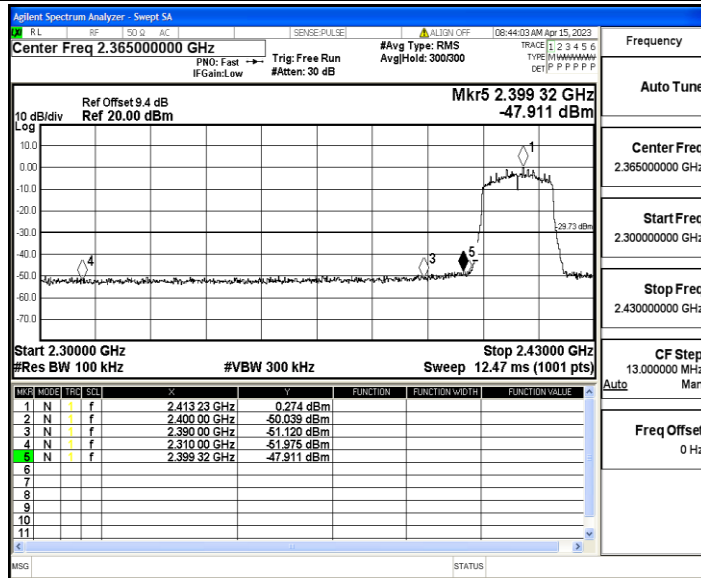
11B_Ant2_Low_2412



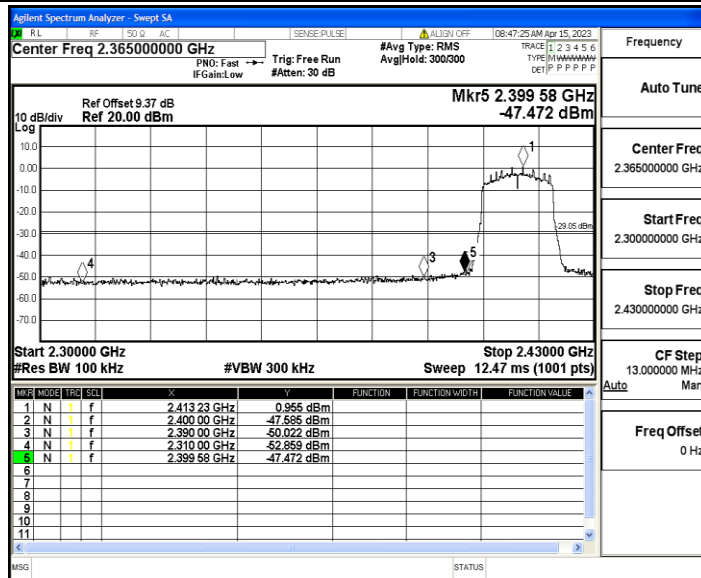
11B_Ant1_High_2462



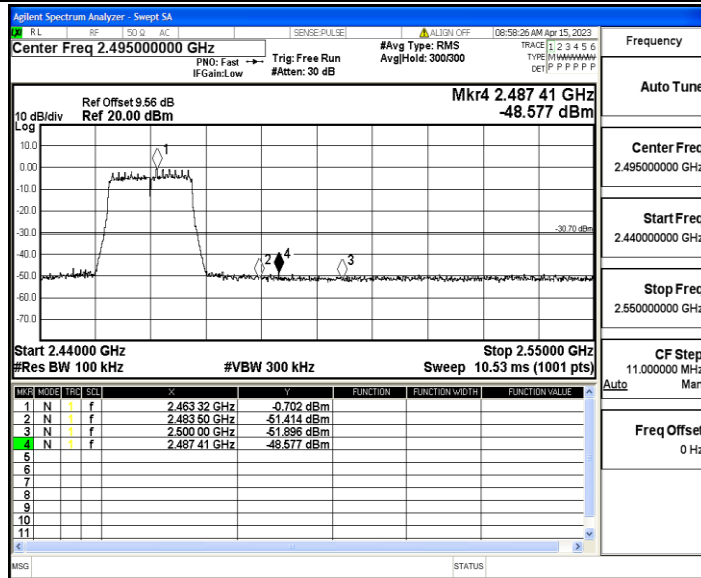
11B_Ant2_High_2462



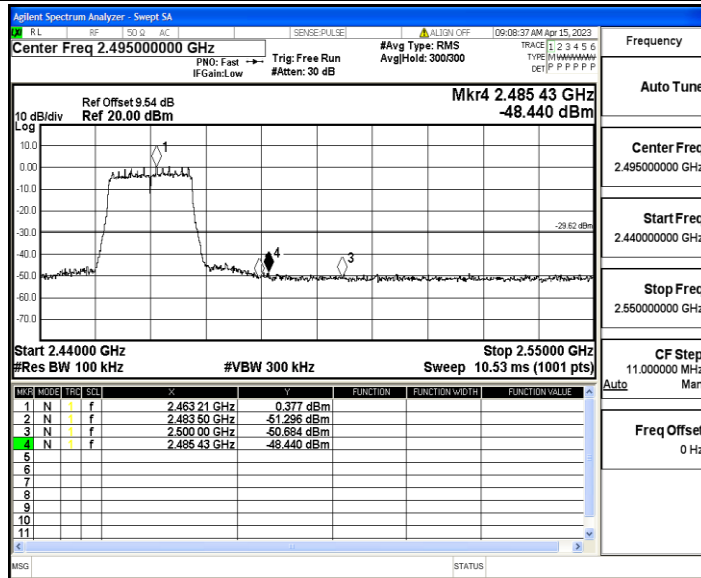
11G_Ant1_Low_2412



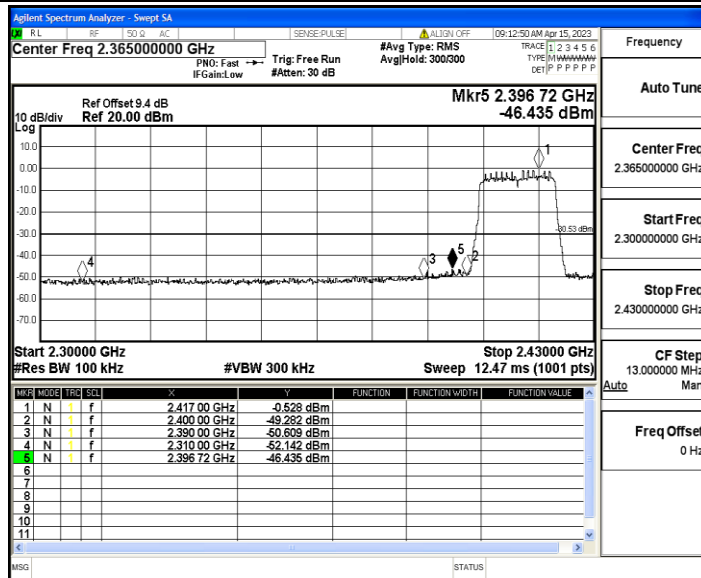
11G_Ant2_Low_2412



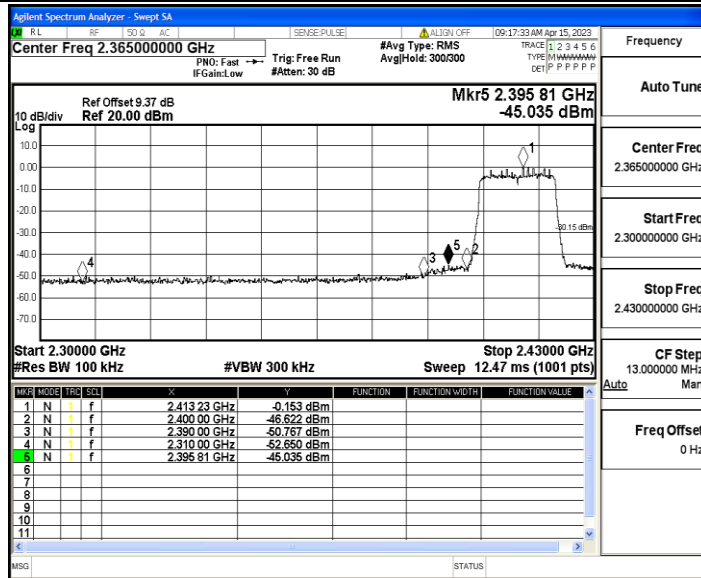
11G_Ant1_High_2462



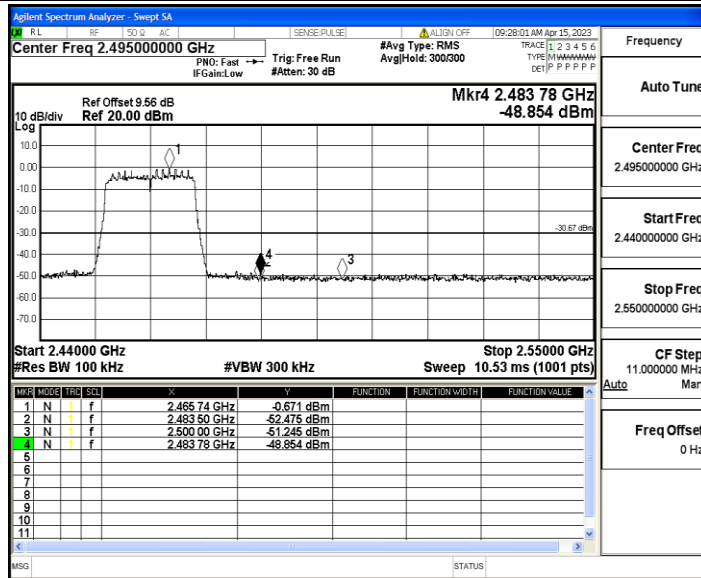
11G_Ant2_High_2462



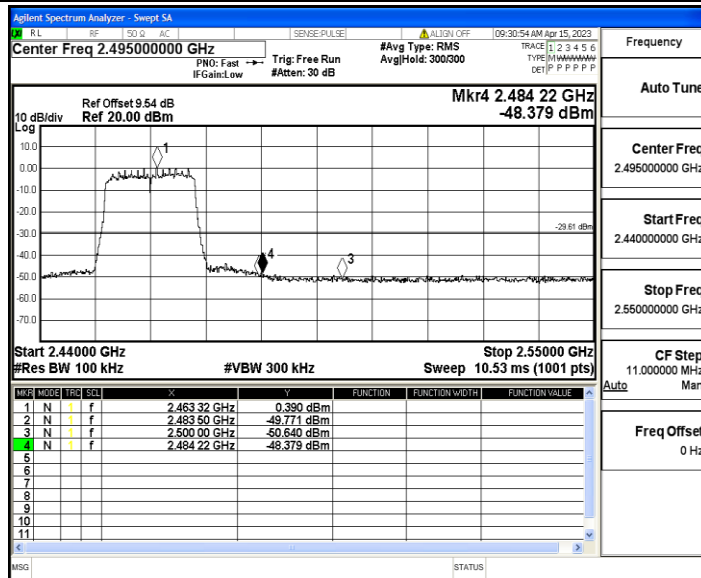
11N20MIMO_Ant1_Low_2412



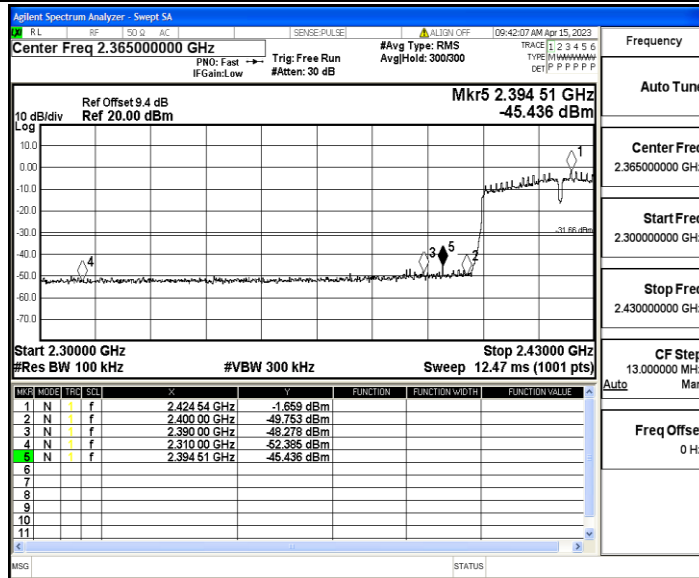
11N20MIMO_Ant2_Low_2412



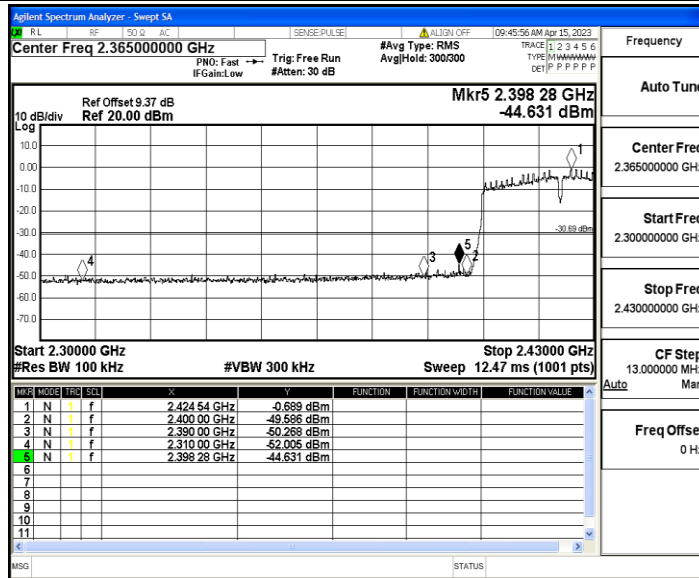
11N20MIMO_Ant1_High_2462



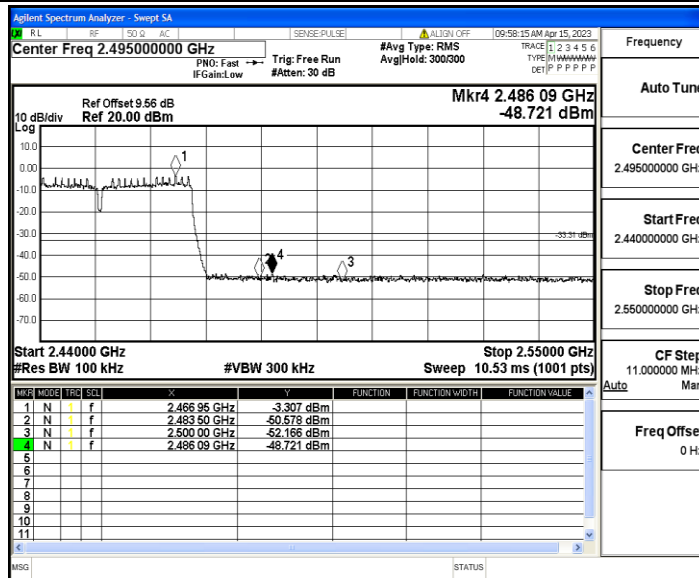
11N20MIMO_Ant2_High_2462



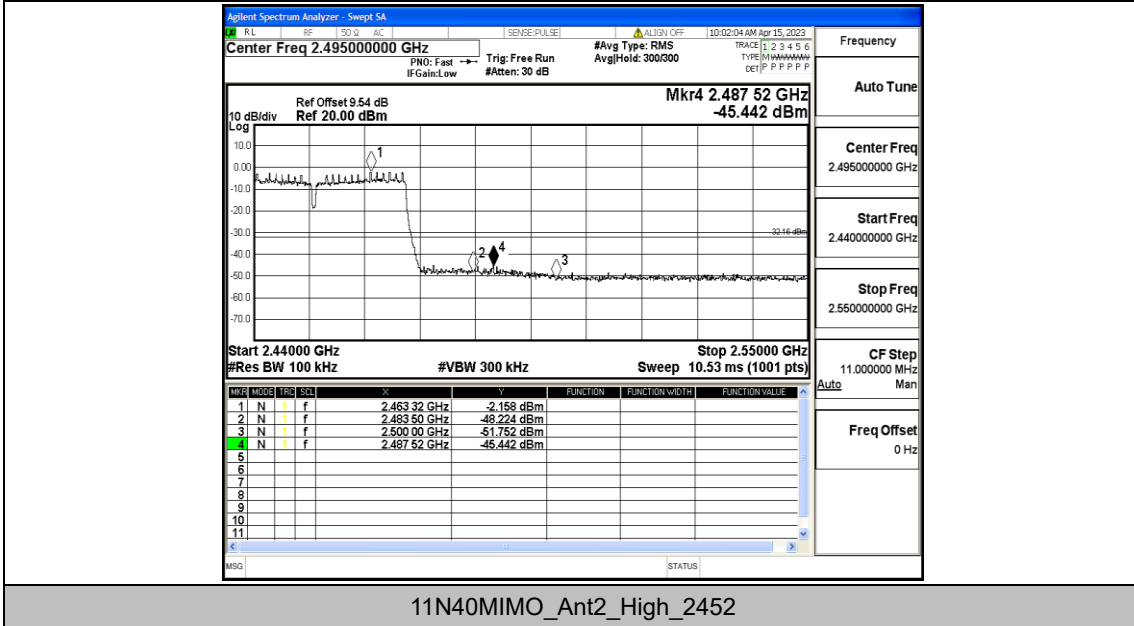
11N40MIMO_Ant1_Low_2422



11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452



11N40MIMO_Ant2_High_2452

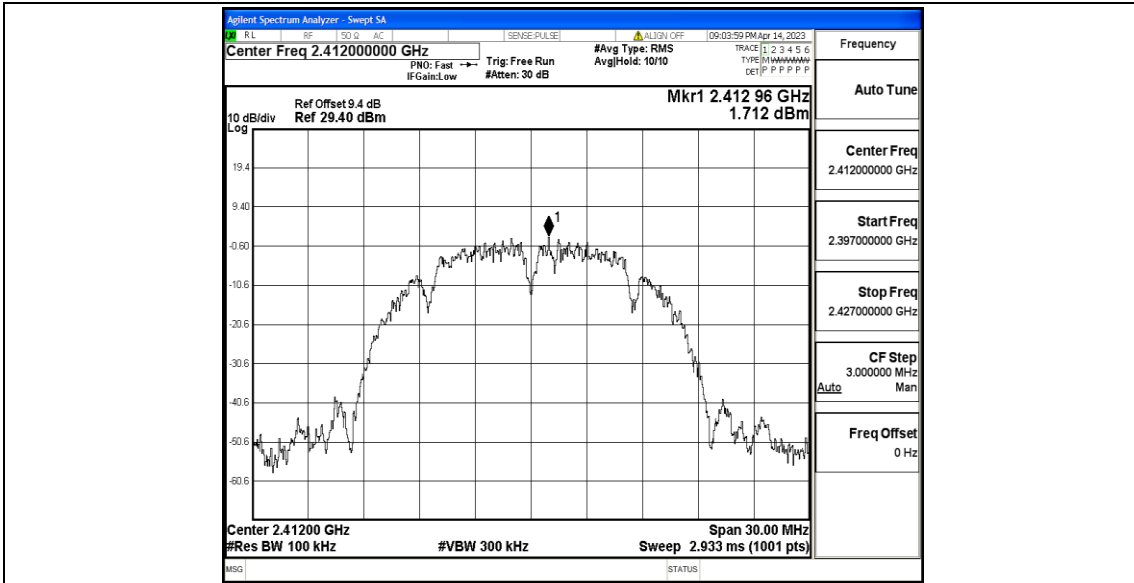
Appendix F: Conducted Spurious Emission

Test Result

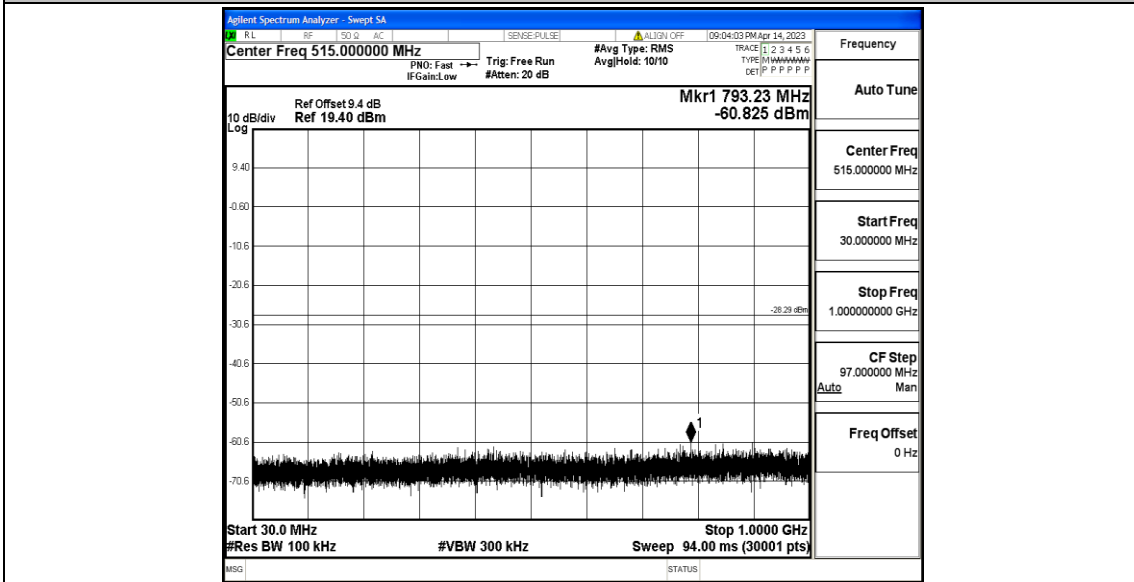
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	Reference	1.71	1.71	---	PASS	
			30~1000	1.71	-60.83	≤-28.29	PASS	
			1000~26500	1.71	-52.46	≤-28.29	PASS	
	Ant2	2412	Reference	2.13	2.13	---	PASS	
			30~1000	2.13	-61.04	≤-27.87	PASS	
			1000~26500	2.13	-51.42	≤-27.87	PASS	
	Ant1	2437	Reference	2.00	2.00	---	PASS	
			30~1000	2.00	-61.02	≤-28	PASS	
			1000~26500	2.00	-51.73	≤-28	PASS	
	Ant2	2437	Reference	2.93	2.93	---	PASS	
			30~1000	2.93	-60.47	≤-27.07	PASS	
			1000~26500	2.93	-51.43	≤-27.07	PASS	
	Ant1	2462	Reference	1.72	1.72	---	PASS	
			30~1000	1.72	-60.19	≤-28.28	PASS	
			1000~26500	1.72	-51.74	≤-28.28	PASS	
	Ant2	2462	Reference	1.30	1.30	---	PASS	
			30~1000	1.30	-61.18	≤-28.7	PASS	
			1000~26500	1.30	-51	≤-28.7	PASS	
	11G	Ant1	2412	Reference	0.28	0.28	---	PASS
				30~1000	0.28	-61.06	≤-29.72	PASS
				1000~26500	0.28	-53.17	≤-29.72	PASS
		Ant2	2412	Reference	-2.71	-2.71	---	PASS
				30~1000	-2.71	-60.83	≤-32.71	PASS
				1000~26500	-2.71	-52.88	≤-32.71	PASS
Ant1		2437	Reference	-2.91	-2.91	---	PASS	
			30~1000	-2.91	-61.1	≤-32.91	PASS	
			1000~26500	-2.91	-52.67	≤-32.91	PASS	
Ant2		2437	Reference	0.67	0.67	---	PASS	
			30~1000	0.67	-61.07	≤-29.33	PASS	
			1000~26500	0.67	-51.82	≤-29.33	PASS	
Ant1		2462	Reference	-3.53	-3.53	---	PASS	
			30~1000	-3.53	-60.62	≤-33.53	PASS	
			1000~26500	-3.53	-51.61	≤-33.53	PASS	
Ant2		2462	Reference	-2.99	-2.99	---	PASS	
			30~1000	-2.99	-60.7	≤-32.99	PASS	
			1000~26500	-2.99	-51.46	≤-32.99	PASS	
11N20MIMO		Ant1	2412	Reference	-0.56	-0.56	---	PASS
				30~1000	-0.56	-60.97	≤-30.56	PASS
				1000~26500	-0.56	-52.3	≤-30.56	PASS
		Ant2	2412	Reference	-0.32	-0.32	---	PASS
				30~1000	-0.32	-61.15	≤-30.32	PASS

	Ant1	2437	1000~26500	-0.32	-51.96	≤-30.32	PASS
			Reference	-2.76	-2.76	---	PASS
			30~1000	-2.76	-61.03	≤-32.76	PASS
	Ant2	2437	1000~26500	-2.76	-52.03	≤-32.76	PASS
			Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-61.26	≤-31.22	PASS
	Ant1	2462	1000~26500	-1.22	-52.03	≤-31.22	PASS
			Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-61.02	≤-33.61	PASS
	Ant2	2462	1000~26500	-3.61	-51.88	≤-33.61	PASS
			Reference	-0.06	-0.06	---	PASS
			30~1000	-0.06	-60.93	≤-30.06	PASS
11N40MIMO	Ant1	2422	1000~26500	-0.06	-51.34	≤-30.06	PASS
			Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-61.09	≤-32.03	PASS
	Ant2	2422	1000~26500	-2.03	-52.18	≤-32.03	PASS
			Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-61.62	≤-32.19	PASS
	Ant1	2437	1000~26500	-2.19	-51.14	≤-32.19	PASS
			Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-60.77	≤-33.54	PASS
	Ant2	2437	1000~26500	-3.54	-51.26	≤-33.54	PASS
			Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-60.9	≤-31.62	PASS
Ant1	2452	1000~26500	-1.62	-51.96	≤-31.62	PASS	
		Reference	-4.64	-4.64	---	PASS	
		30~1000	-4.64	-60.61	≤-34.64	PASS	
Ant2	2452	1000~26500	-4.64	-52.09	≤-34.64	PASS	
		Reference	-3.30	-3.30	---	PASS	
		30~1000	-3.30	-60.19	≤-33.3	PASS	
			1000~26500	-3.30	-52	≤-33.3	PASS

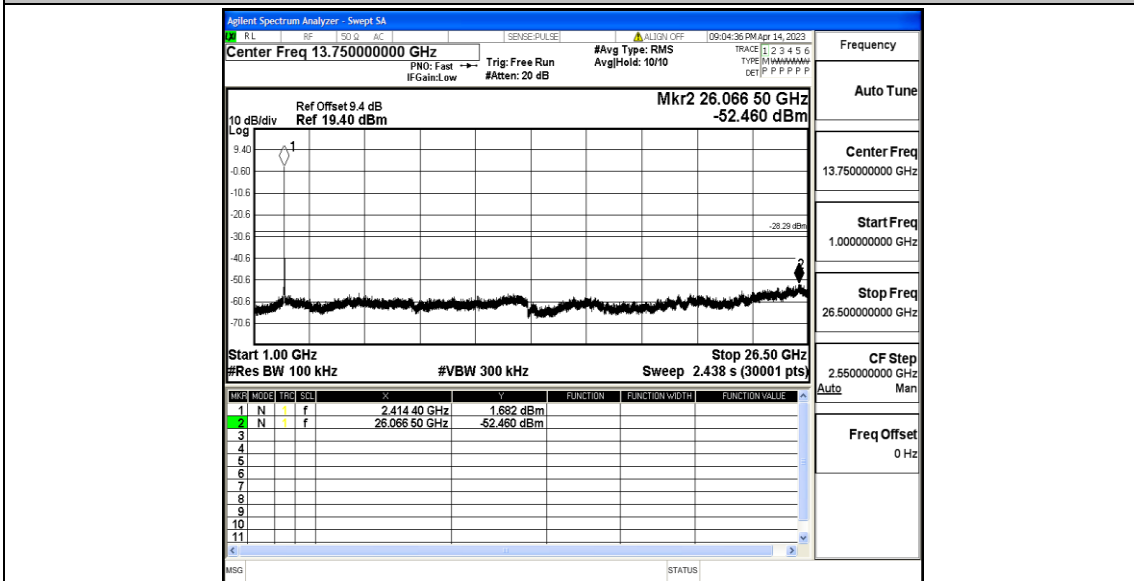
Test Graphs



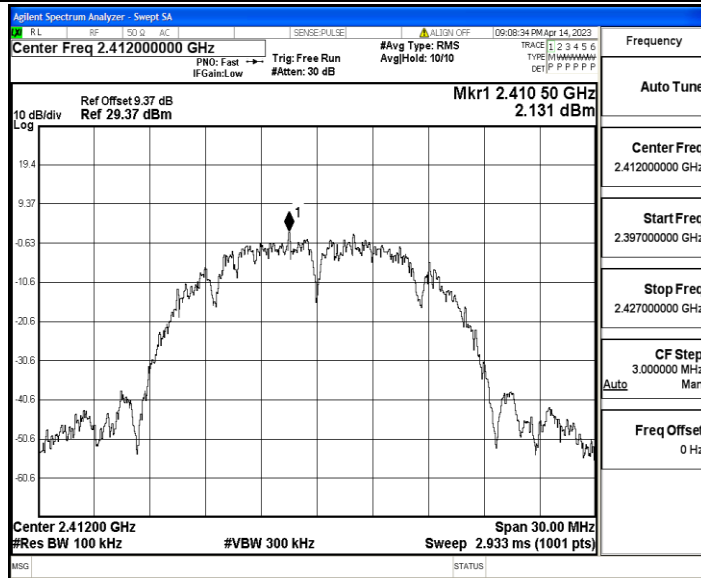
11B_Ant1_2412_0~Reference



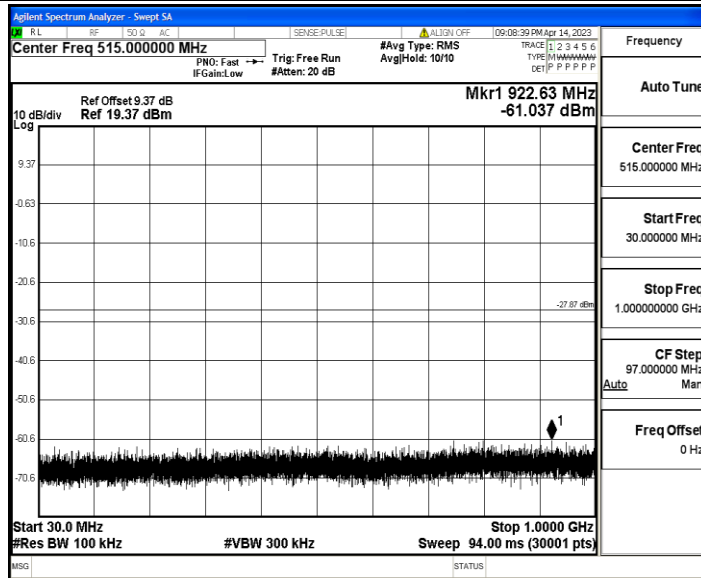
11B_Ant1_2412_30~1000



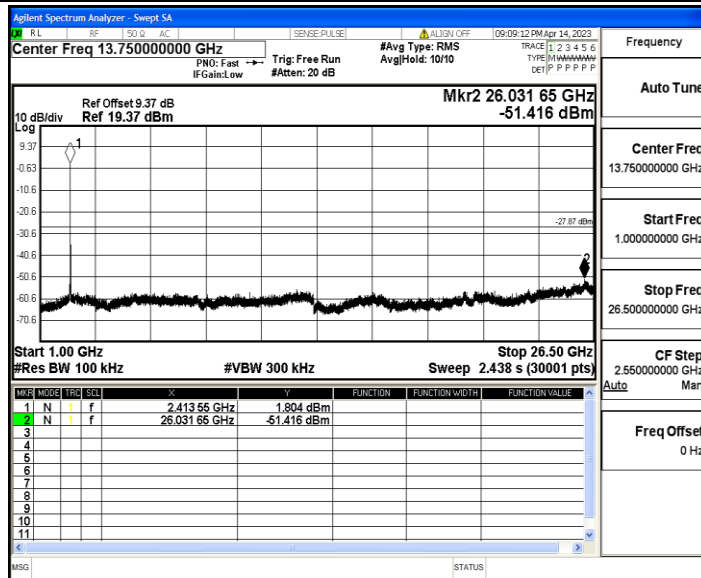
11B_Ant1_2412_1000~26500



11B_Ant2_2412_0~Reference



11B_Ant2_2412_30~1000



11B_Ant2_2412_1000~26500