Appendix Test Data

Report No.:	18220WC30005102	Test Sample No.:	1-2-2
Start Test Date:	2023.1.12	Finish Test Date:	2023.1.13
Test Engineer:	Tony.He	Auditor:	Edward.Pan
Temperature:	24.3℃	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

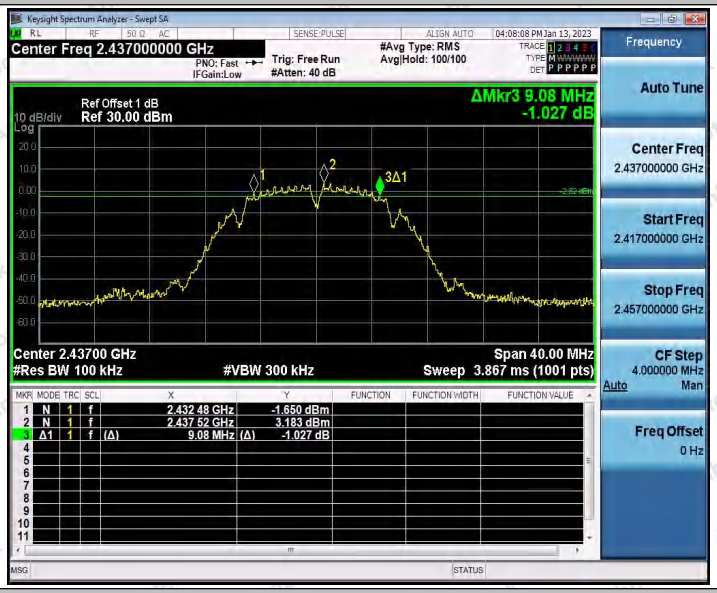
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	≥0.5	PASS
		2437	9.080	2432.480	2441.560	≥0.5	PASS
		2462	8.600	2457.480	2466.080	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
		2437	16.400	2428.800	2445.200	≥0.5	PASS
		2462	16.360	2453.800	2470.160	≥0.5	PASS
11N20	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
		2437	17.600	2428.200	2445.800	≥0.5	PASS
		2462	17.560	2453.200	2470.760	≥0.5	PASS
11N40	Ant1	2422	35.400	2404.300	2439.700	≥0.5	PASS
		2437	35.700	2418.880	2454.580	≥0.5	PASS
		2452	35.700	2433.880	2469.580	≥0.5	PASS

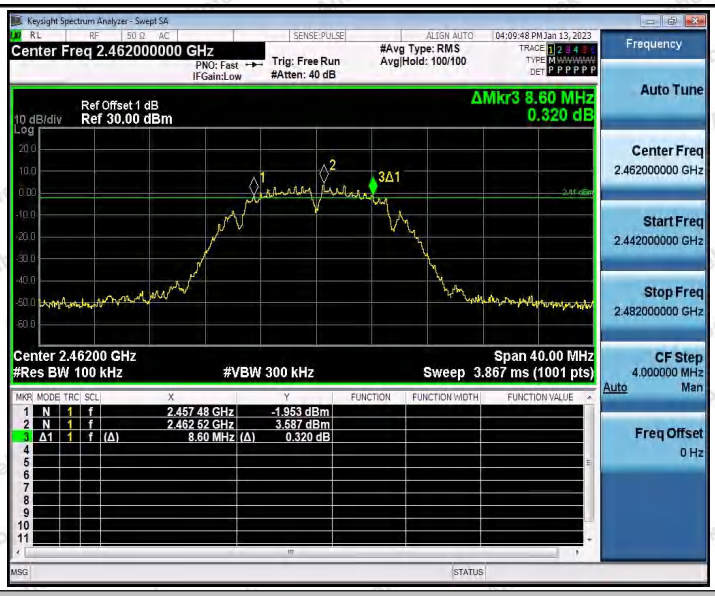
Test Graphs

11B_Ant1_2412

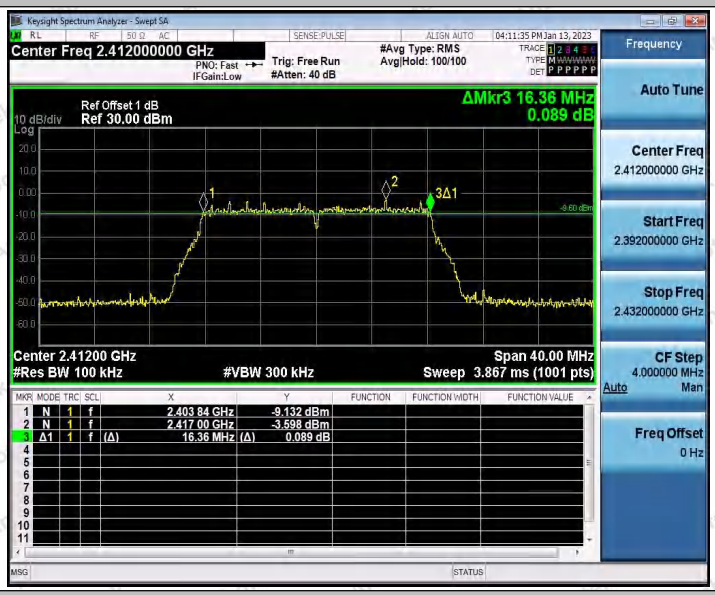
11B_Ant1_2437



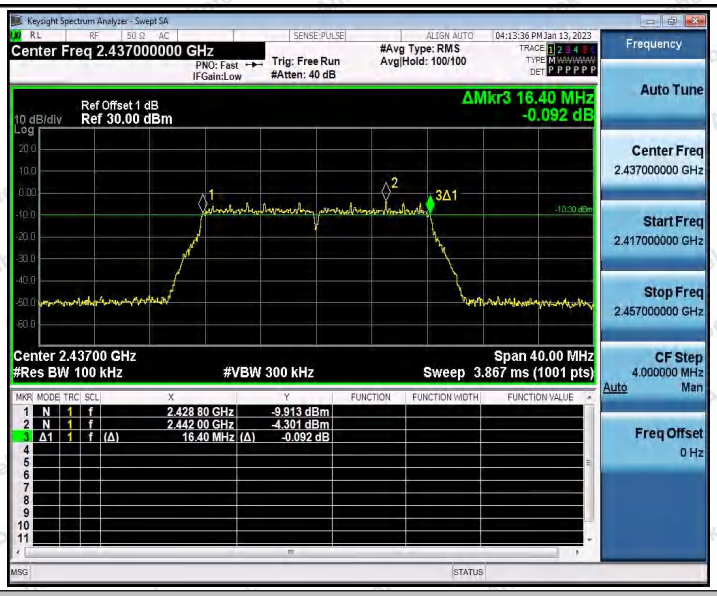
11B_Ant1_2462



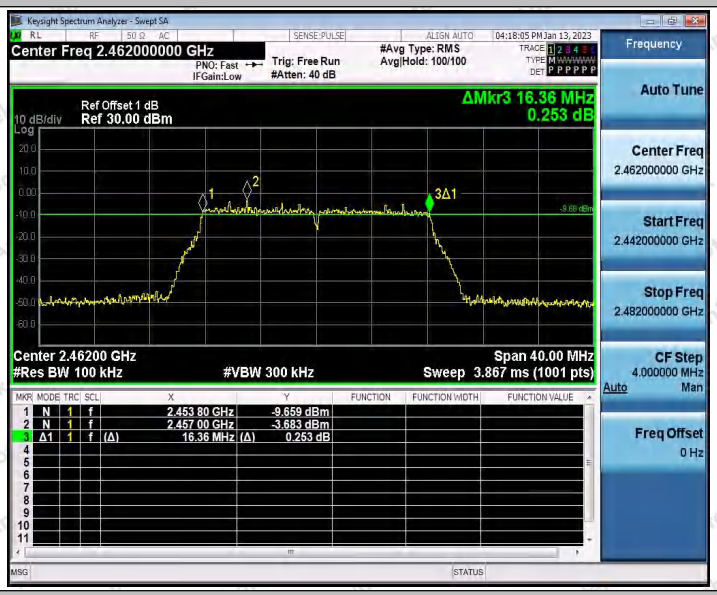
11G_Ant1_2412



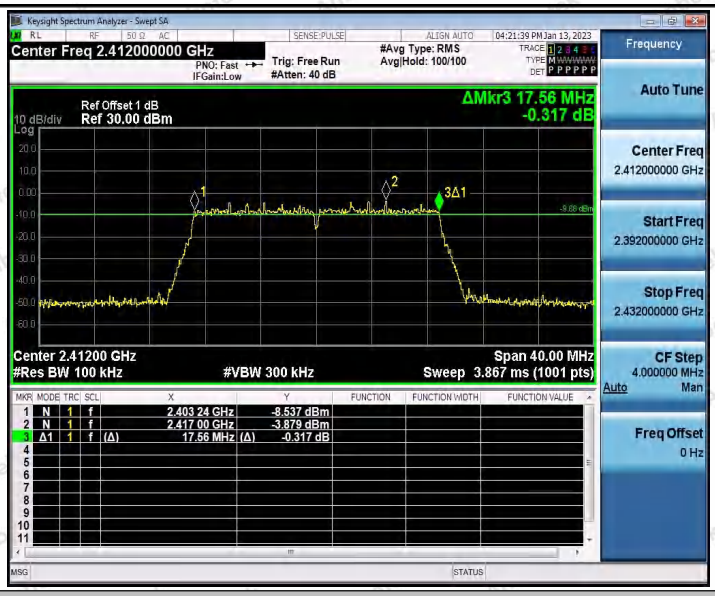
11G_Ant1_2437



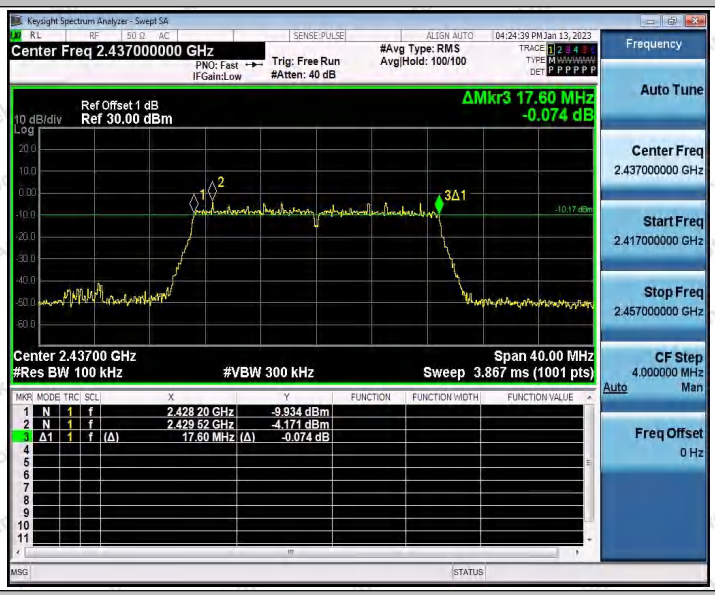
11G_Ant1_2462



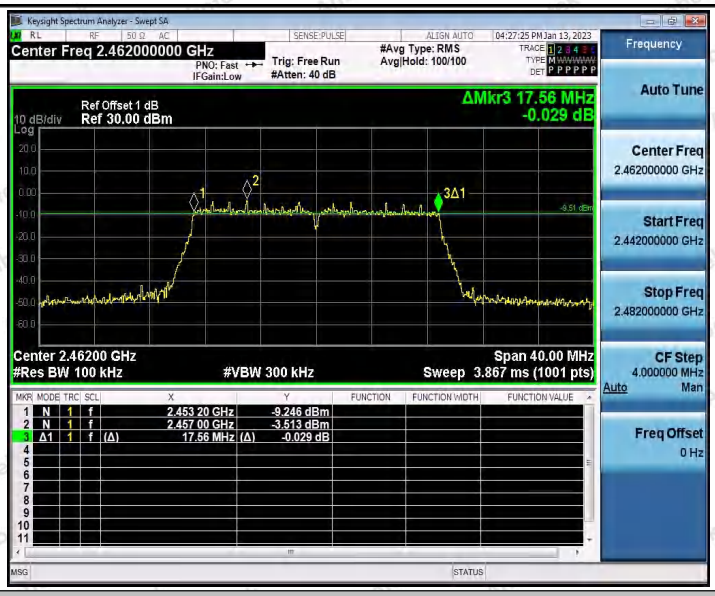
11N20_Ant1_2412



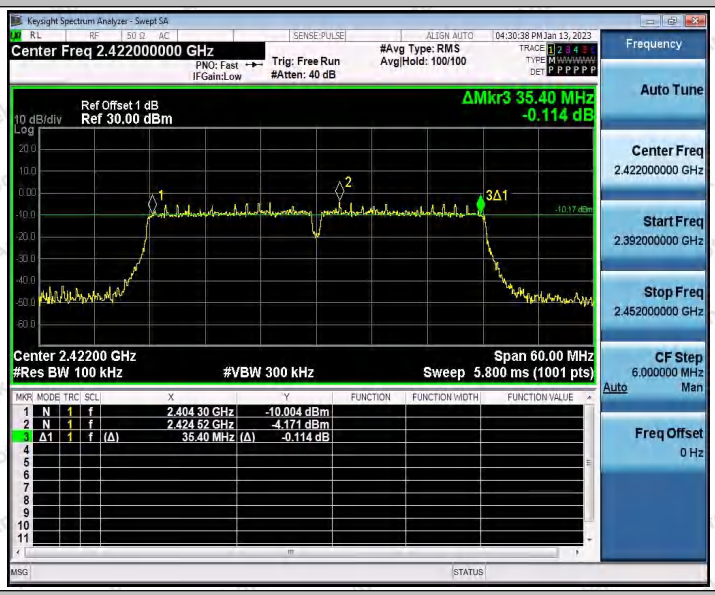
11N20_Ant1_2437



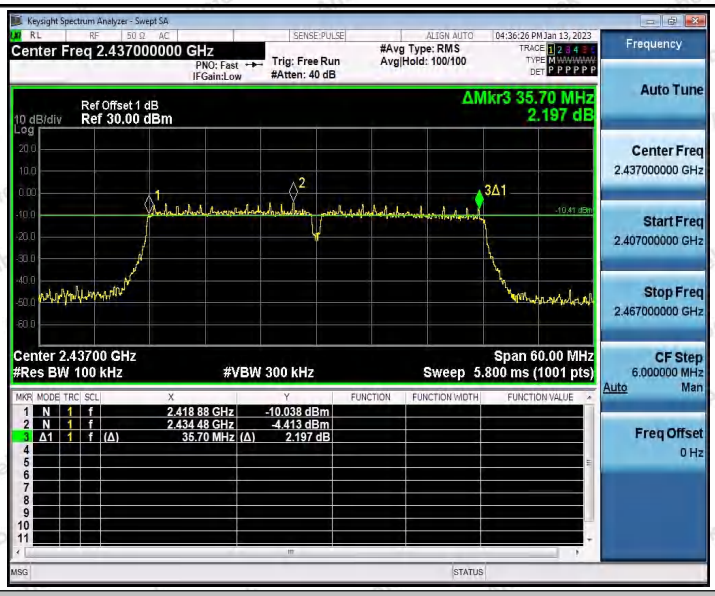
11N20_Ant1_2462



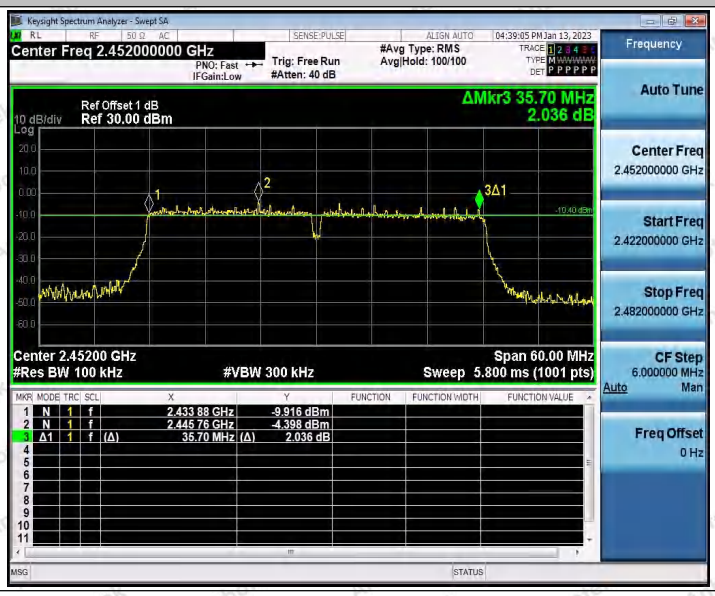
11N40_Ant1_2422



11N40_Ant1_2437



11N40_Ant1_2452



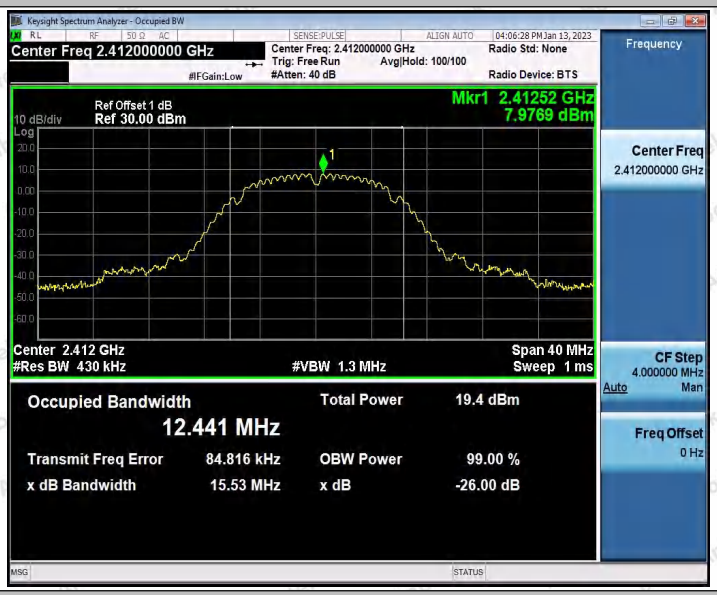
Appendix B: Occupied Channel Bandwidth

Test Result

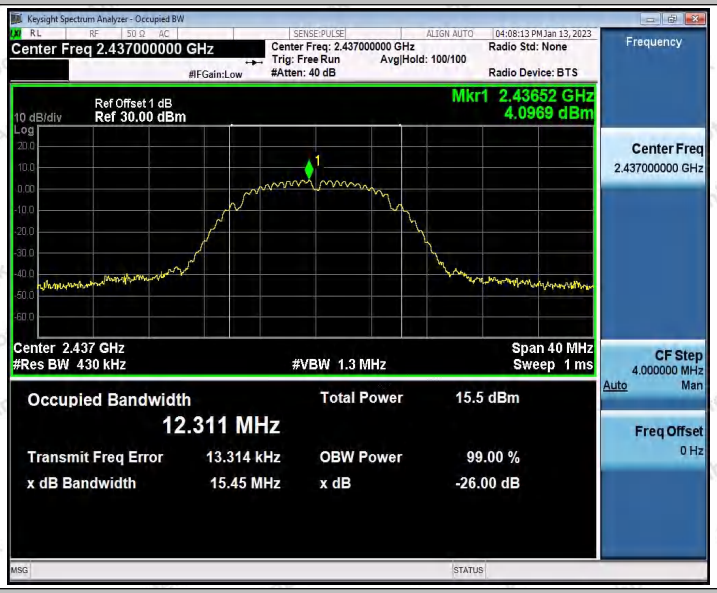
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.441	2405.8643	2418.3053
		2437	12.311	2430.8578	2443.1688
		2462	12.320	2455.8249	2468.1449
11G	Ant1	2412	17.030	2403.5654	2420.5954
		2437	17.030	2428.4706	2445.5006
		2462	17.172	2453.3774	2470.5494
11N20	Ant1	2412	17.949	2403.0752	2421.0242
		2437	17.924	2428.0411	2445.9651
		2462	17.995	2452.9953	2470.9903
11N40	Ant1	2422	36.150	2403.9936	2440.1436
		2437	36.144	2418.9241	2455.0681
		2452	36.165	2433.8765	2470.0415

Test Graphs

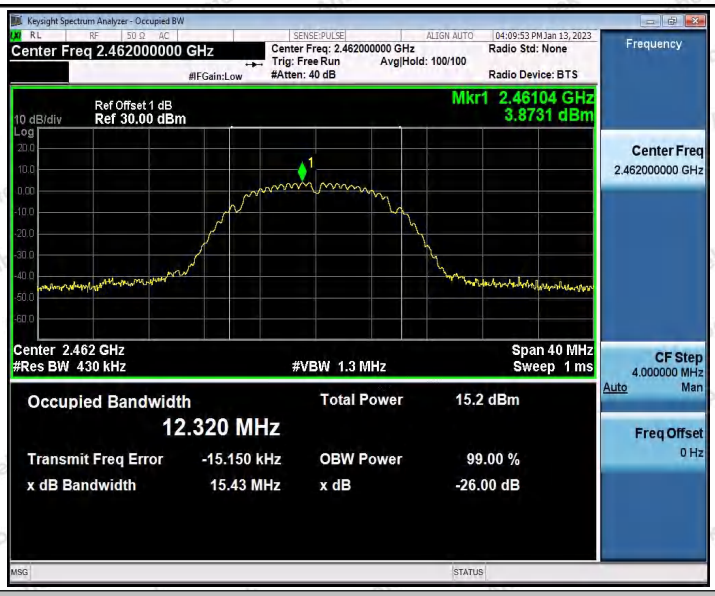
11B_Ant1_2412



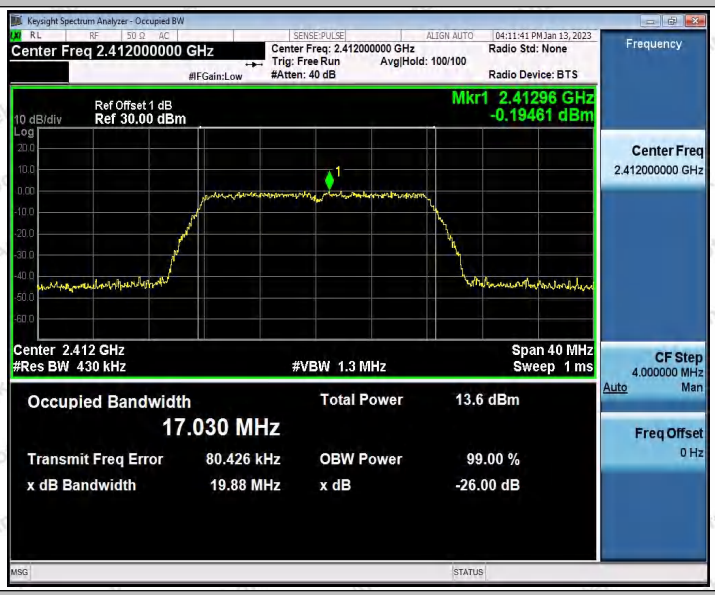
11B_Ant1_2437



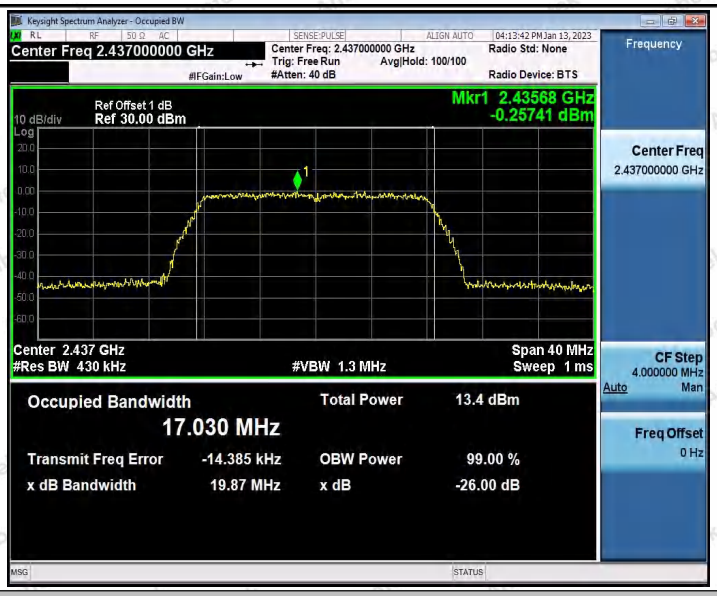
11B_Ant1_2462



11G_Ant1_2412



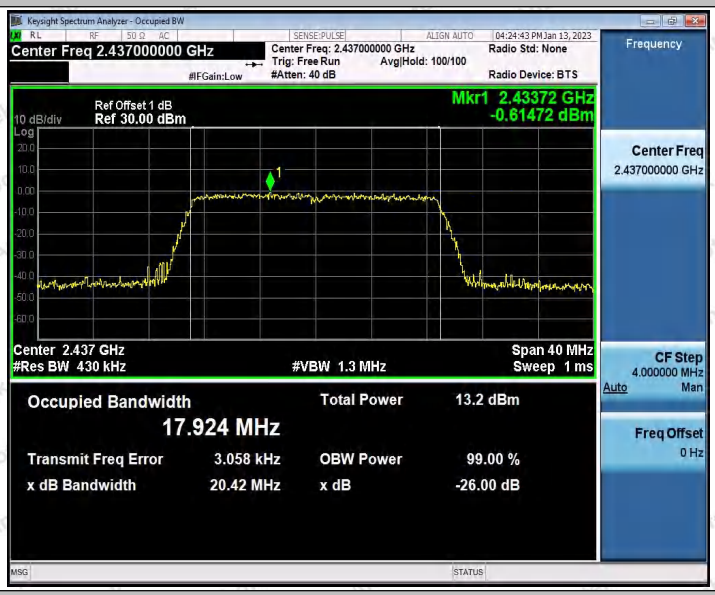
11G_Ant1_2437



11G_Ant1_2462

11N20_Ant1_2412

11N20_Ant1_2437



11N20_Ant1_2462

11N40_Ant1_2422

11N40_Ant1_2437

11N40_Ant1_2452

Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	19.45	≤30.00
		2437	15.50	≤30.00
		2462	15.25	≤30.00
11G	Ant1	2412	14.77	≤30.00
		2437	14.61	≤30.00
		2462	14.66	≤30.00
11N20	Ant1	2412	14.70	≤30.00
		2437	14.43	≤30.00
		2462	14.68	≤30.00
11N40	Ant1	2422	14.54	≤30.00
		2437	14.19	≤30.00
		2452	14.07	≤30.00

Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.5	≤8.00	PASS
		2437	-8.72	≤8.00	PASS
		2462	-7.65	≤8.00	PASS
11G	Ant1	2412	-16.72	≤8.00	PASS
		2437	-17.04	≤8.00	PASS
		2462	-17.28	≤8.00	PASS
11N20	Ant1	2412	-17.91	≤8.00	PASS
		2437	-18.25	≤8.00	PASS
		2462	-17.09	≤8.00	PASS
11N40	Ant1	2422	-17.29	≤8.00	PASS
		2437	-18.48	≤8.00	PASS
		2452	-17.53	≤8.00	PASS

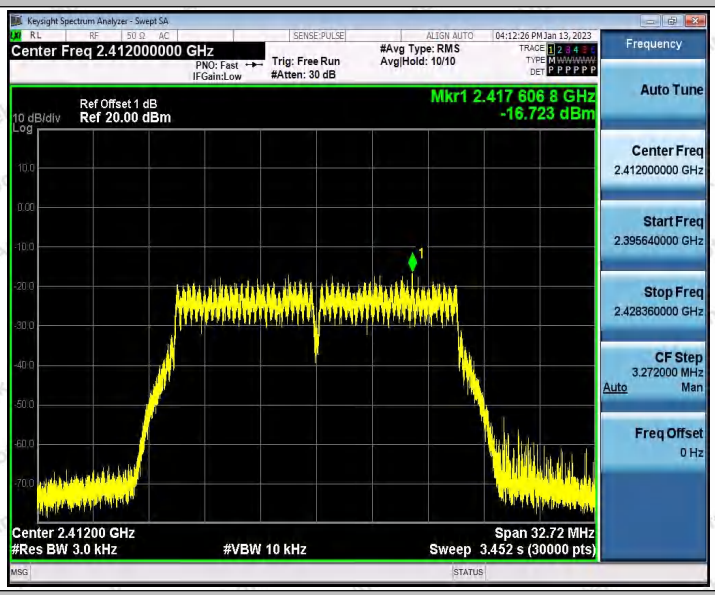
Test Graphs

11B_Ant1_2412

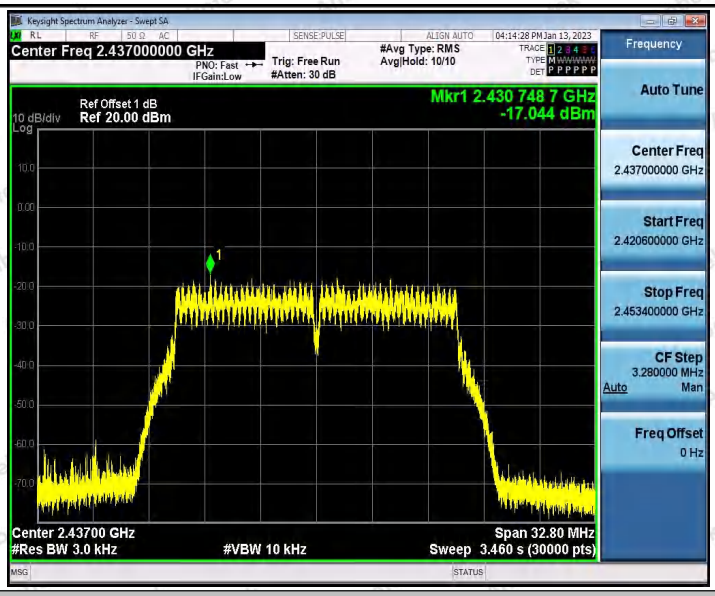
11B_Ant1_2437

11B_Ant1_2462

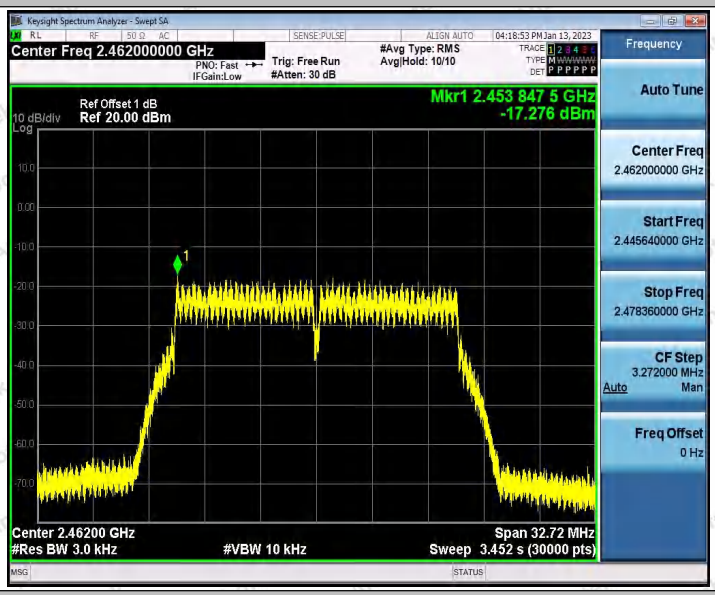
11G_Ant1_2412



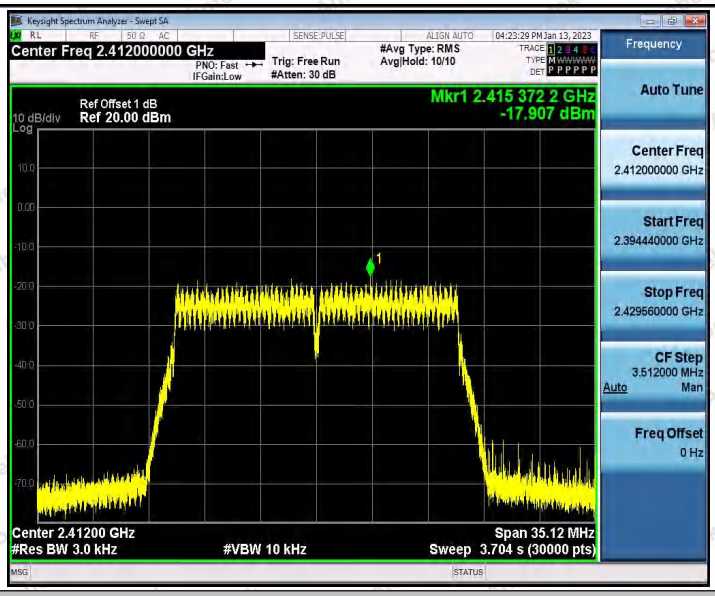
11G_Ant1_2437



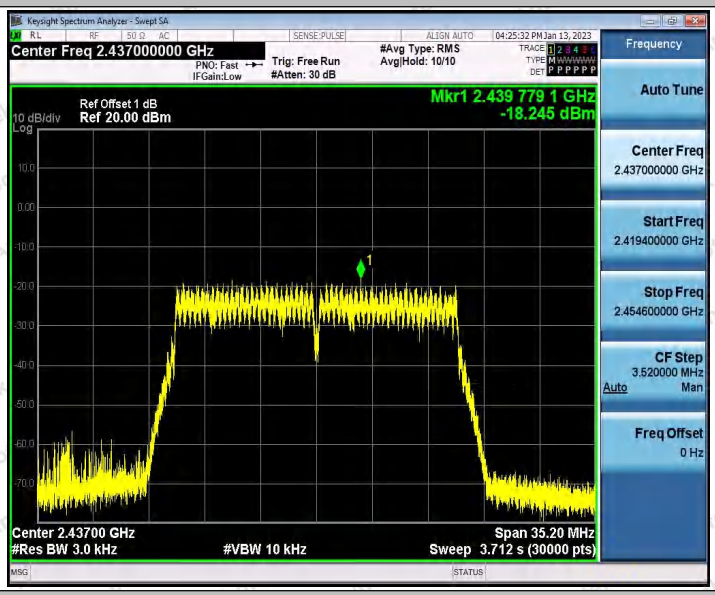
11G_Ant1_2462



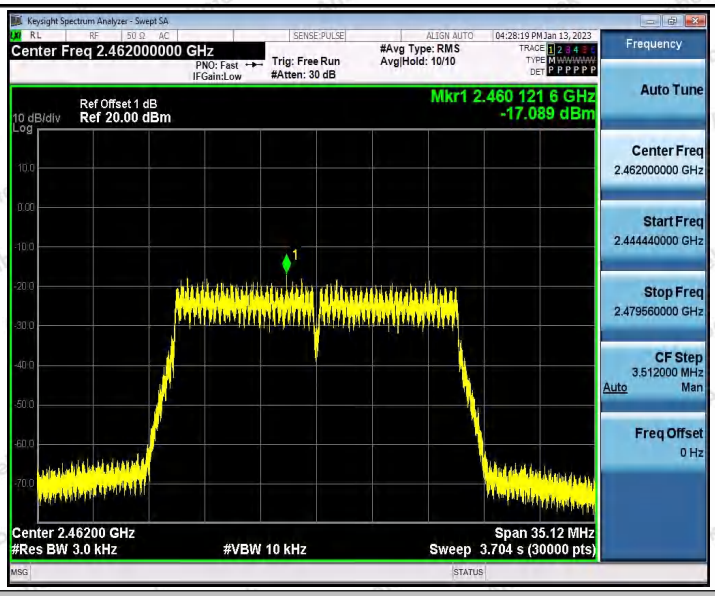
11N20_Ant1_2412



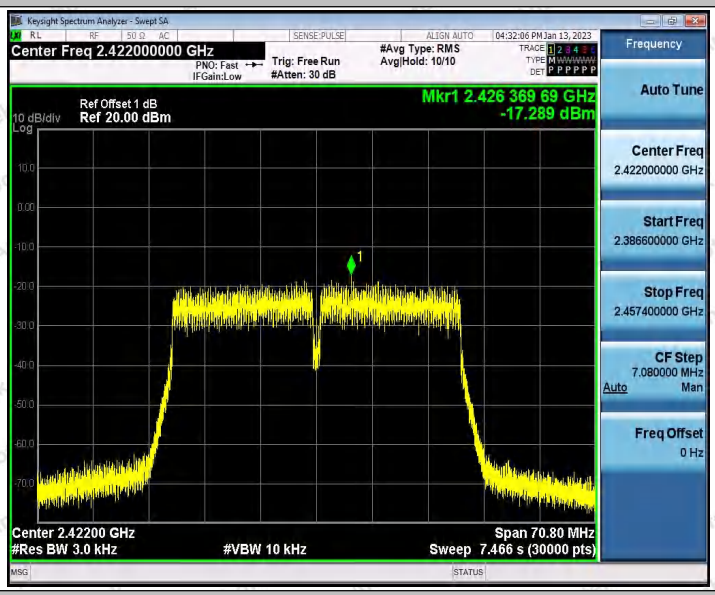
11N20_Ant1_2437



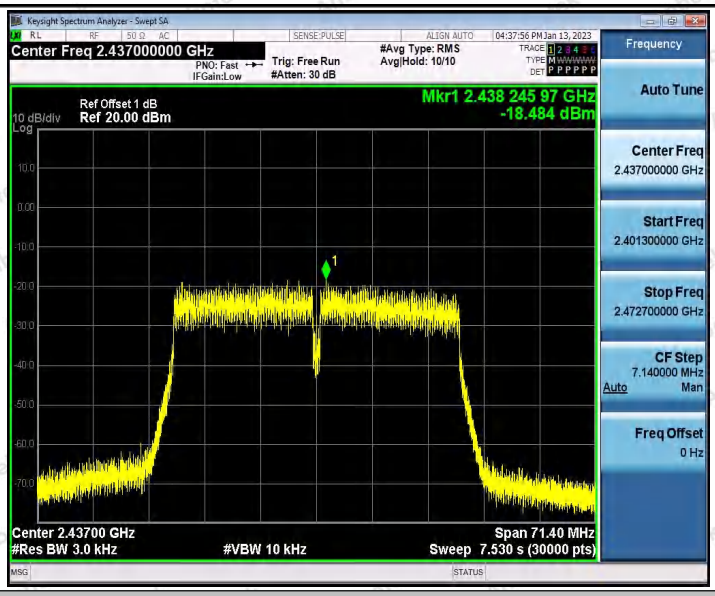
11N20_Ant1_2462



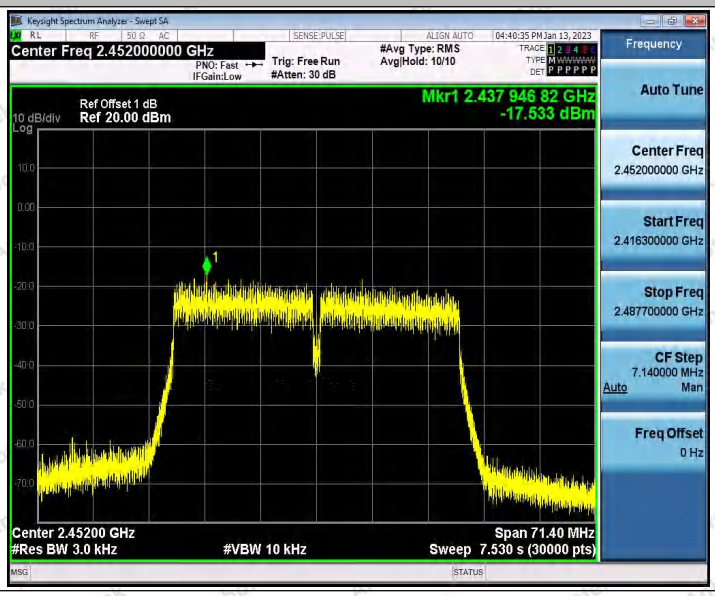
11N40_Ant1_2422



11N40_Ant1_2437



11N40_Ant1_2452



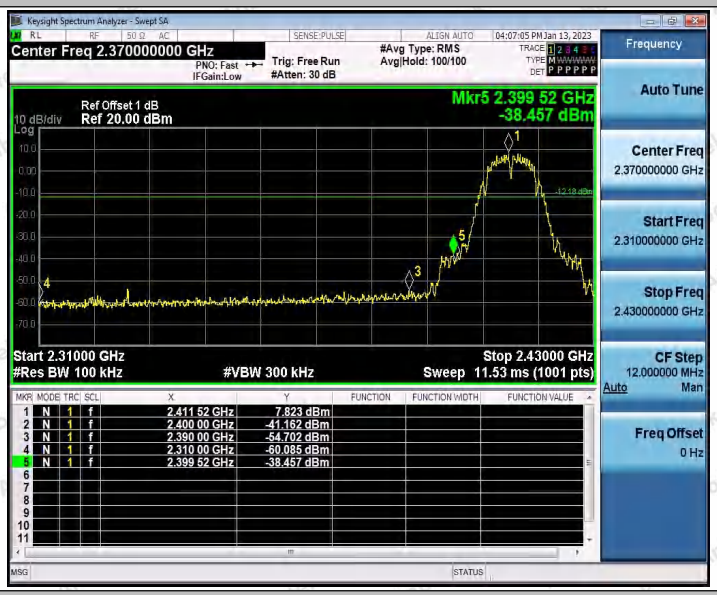
Appendix E: Band edge measurements

Test Result

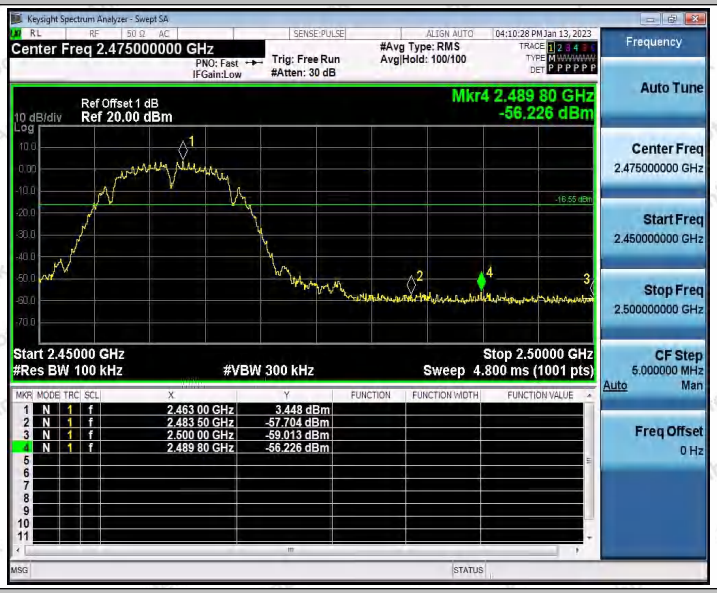
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.82	-38.46	≤-12.18	PASS
		High	2462	3.45	-56.23	≤-16.55	PASS
11G	Ant1	Low	2412	-3.19	-51.57	≤-23.19	PASS
		High	2462	-3.44	-55.36	≤-23.44	PASS
11N20	Ant1	Low	2412	-4.09	-41.75	≤-24.09	PASS
		High	2462	-3.57	-54.99	≤-23.57	PASS
11N40	Ant1	Low	2422	-4.23	-38.89	≤-24.23	PASS
		High	2452	-4.02	-49.3	≤-24.02	PASS

Test Graphs

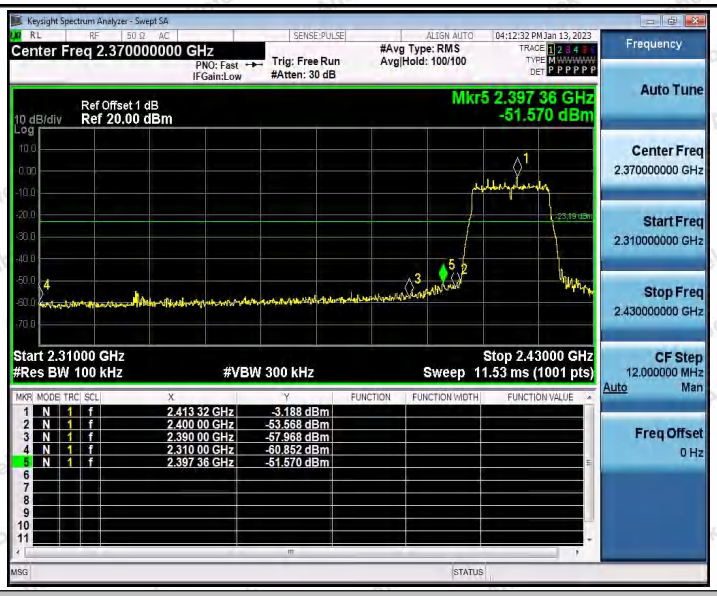
11B_Ant1_Low_2412



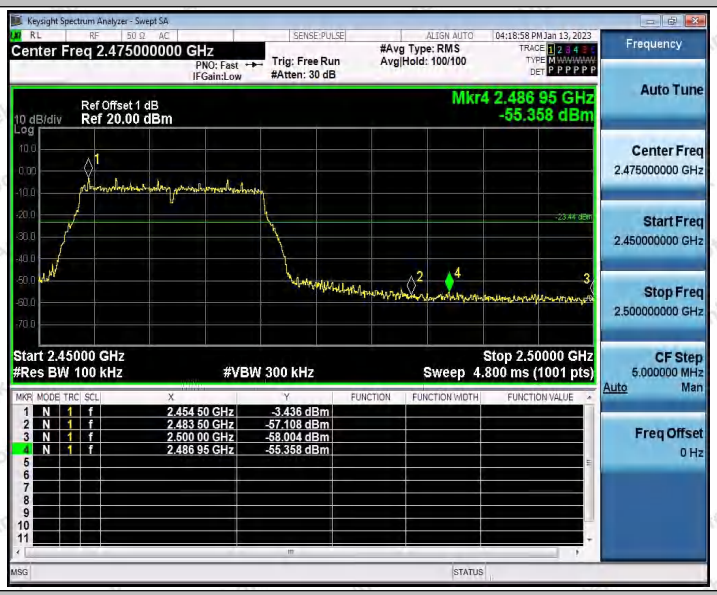
11B_Ant1_High_2462



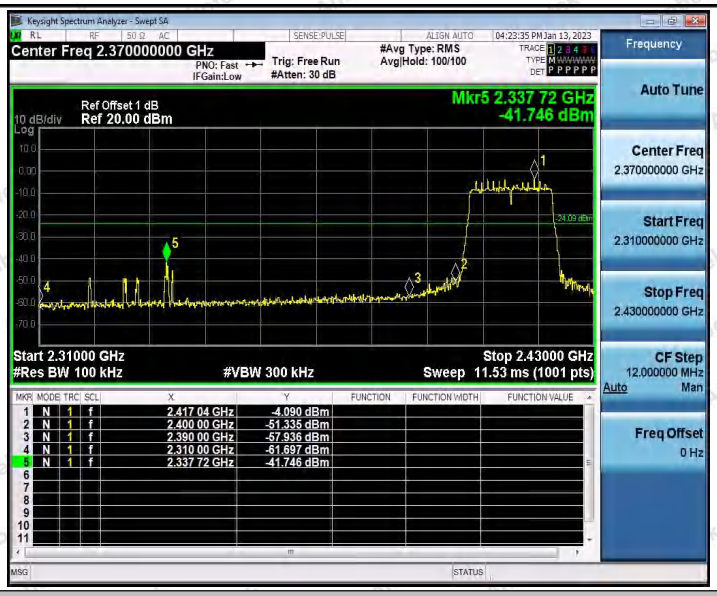
11G_Ant1_Low_2412



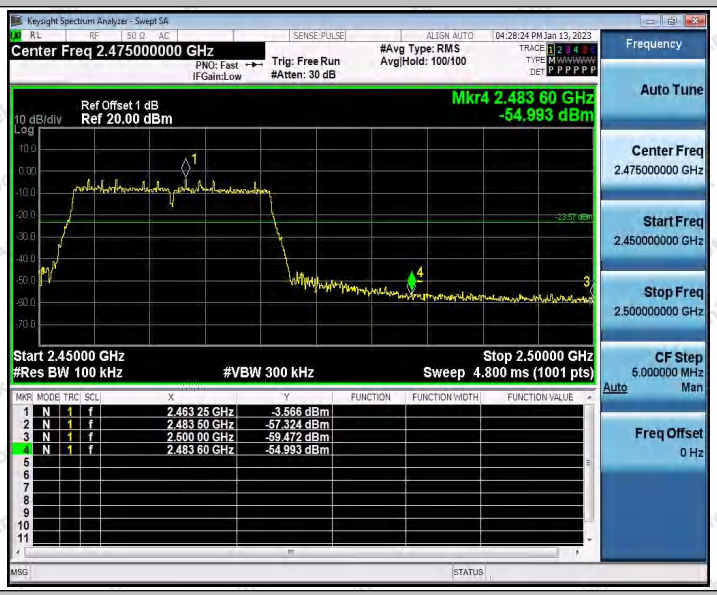
11G_Ant1_High_2462



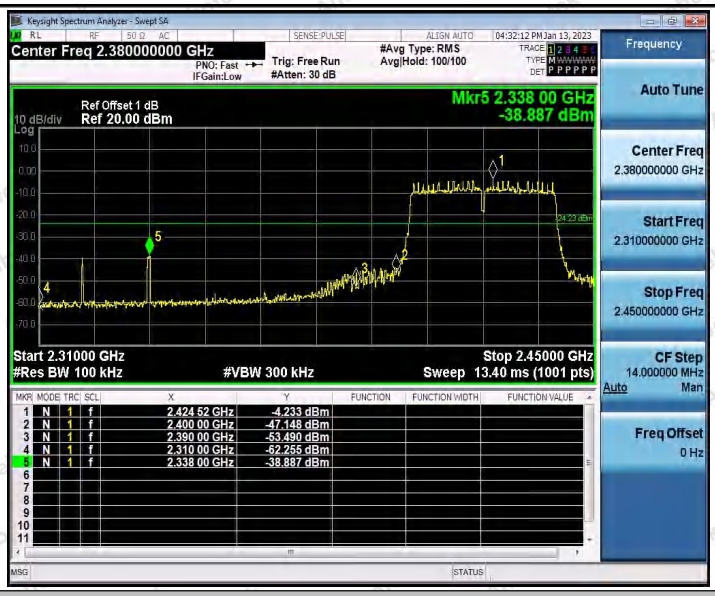
11N20_Ant1_Low_2412



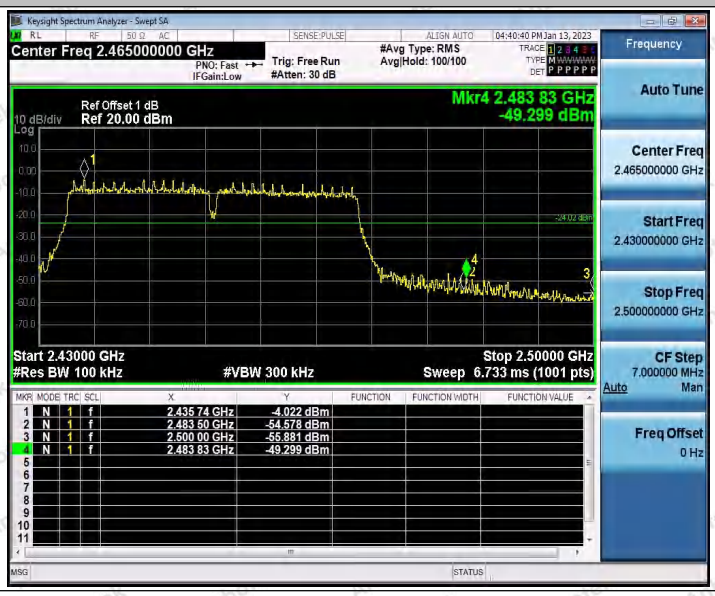
11N20_Ant1_High_2462



11N40_Ant1_Low_2422



11N40_Ant1_High_2452



Appendix F: Conducted Spurious Emission

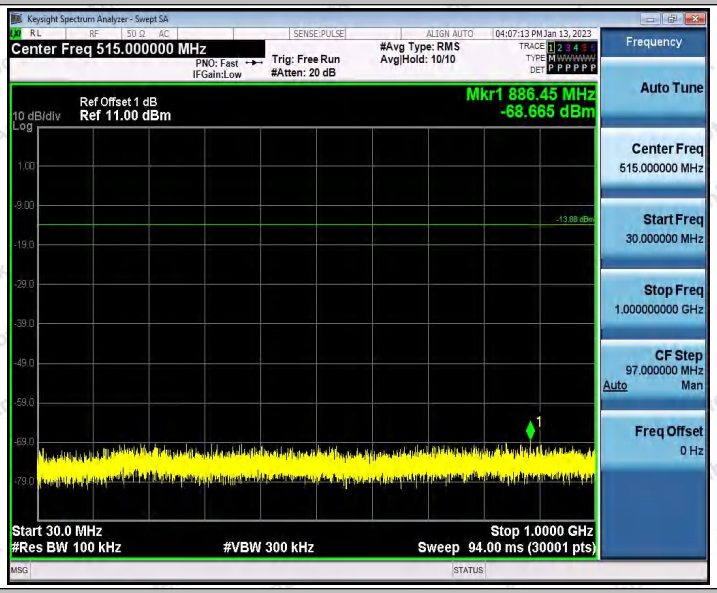
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.12	6.12	---	PASS
			30~1000	6.12	-68.67	≤-13.88	PASS
			1000~26500	6.12	-53.31	≤-13.88	PASS
		2437	Reference	2.45	2.45	---	PASS
			30~1000	2.45	-68.48	≤-17.55	PASS
			1000~26500	2.45	-53.41	≤-17.55	PASS
		2462	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-68.24	≤-17.42	PASS
			1000~26500	2.58	-53.15	≤-17.42	PASS
11G	Ant1	2412	Reference	-6.95	-6.95	---	PASS
			30~1000	-6.95	-69.04	≤-26.95	PASS
			1000~26500	-6.95	-52.74	≤-26.95	PASS
		2437	Reference	-7.34	-7.34	---	PASS
			30~1000	-7.34	-68.79	≤-27.34	PASS
			1000~26500	-7.34	-53.36	≤-27.34	PASS
		2462	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-68.6	≤-24.48	PASS
			1000~26500	-4.48	-49.25	≤-24.48	PASS
11N20	Ant1	2412	Reference	-7.26	-7.26	---	PASS
			30~1000	-7.26	-68.91	≤-27.26	PASS
			1000~26500	-7.26	-44.63	≤-27.26	PASS
		2437	Reference	-3.79	-3.79	---	PASS
			30~1000	-3.79	-69.01	≤-23.79	PASS
			1000~26500	-3.79	-53.22	≤-23.79	PASS
		2462	Reference	-3.84	-3.84	---	PASS
			30~1000	-3.84	-49.39	≤-23.84	PASS
			1000~26500	-3.84	-53.46	≤-23.84	PASS
11N40	Ant1	2422	Reference	-4.82	-4.82	---	PASS
			30~1000	-4.82	-68.67	≤-24.82	PASS
			1000~26500	-4.82	-52.85	≤-24.82	PASS
		2437	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-68.63	≤-25.15	PASS
			1000~26500	-5.15	-53.51	≤-25.15	PASS
		2452	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-68.57	≤-24.67	PASS
			1000~26500	-4.67	-53.12	≤-24.67	PASS

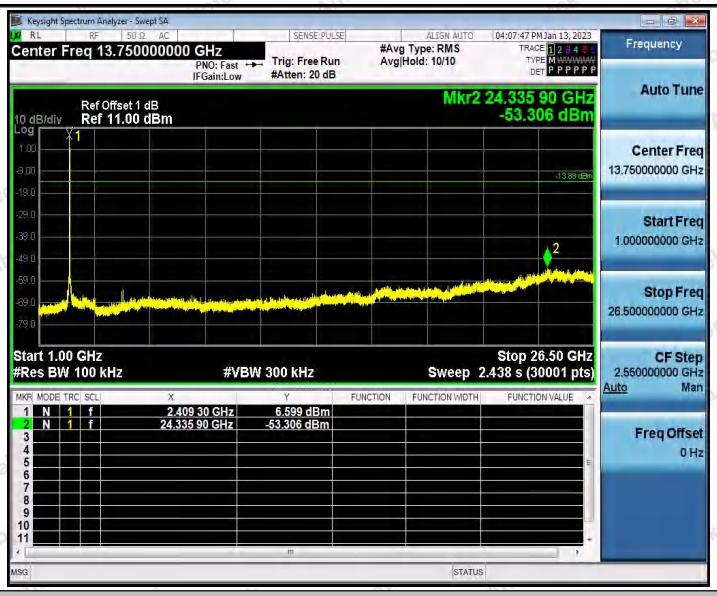
Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000

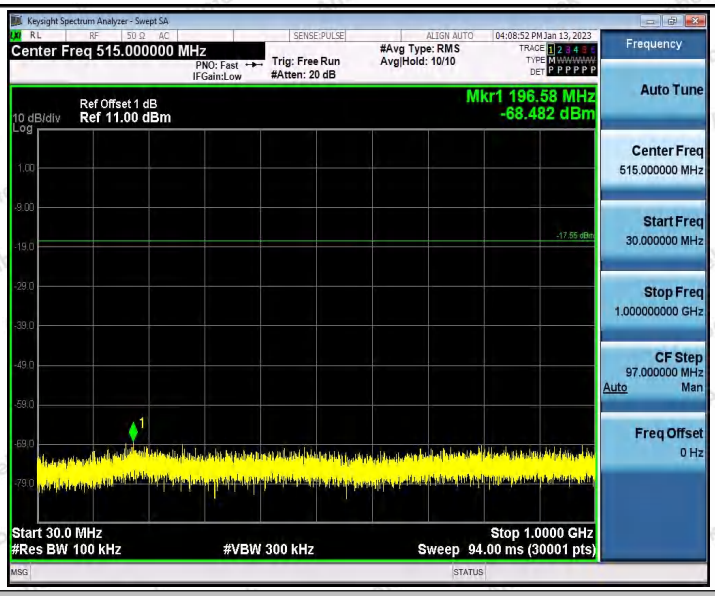


11B_Ant1_2412_1000~26500

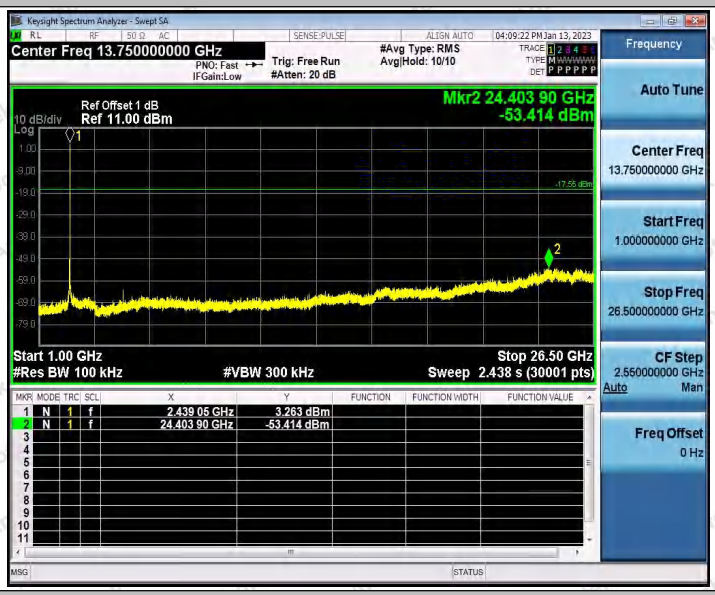


11B_Ant1_2437_0~Reference

11B_Ant1_2437_30~1000

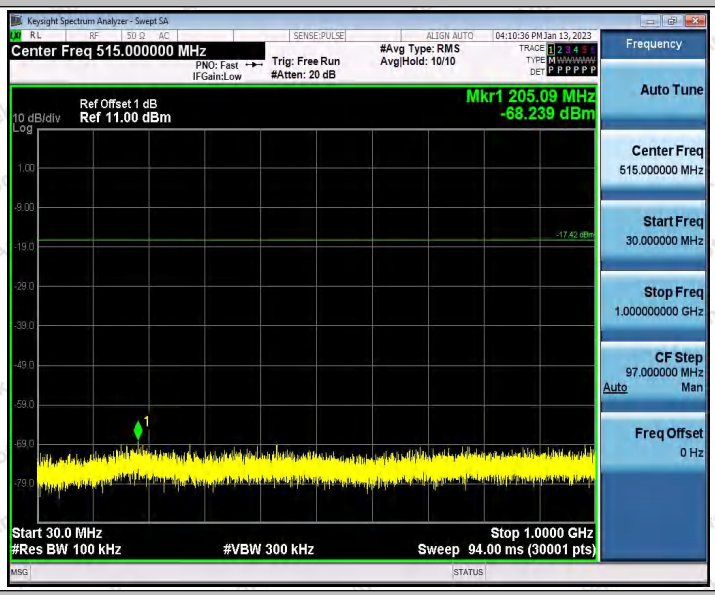


11B_Ant1_2437_1000~26500

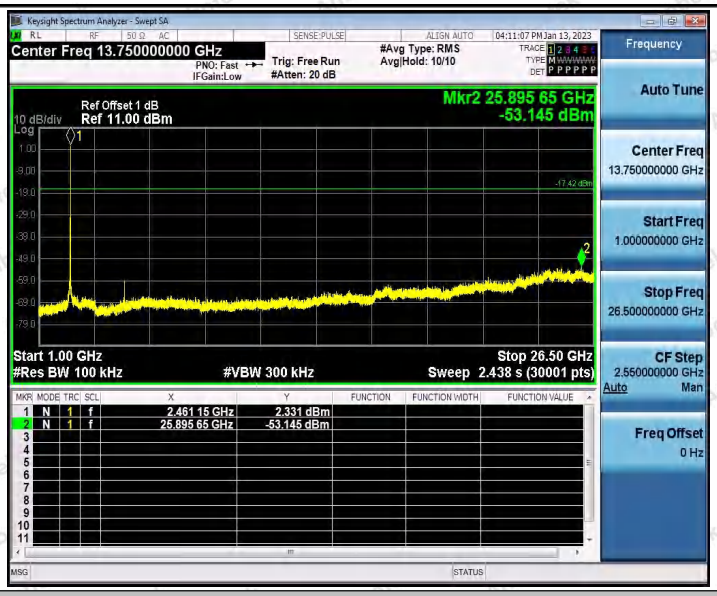


11B_Ant1_2462_0~Reference

11B_Ant1_2462_30~1000

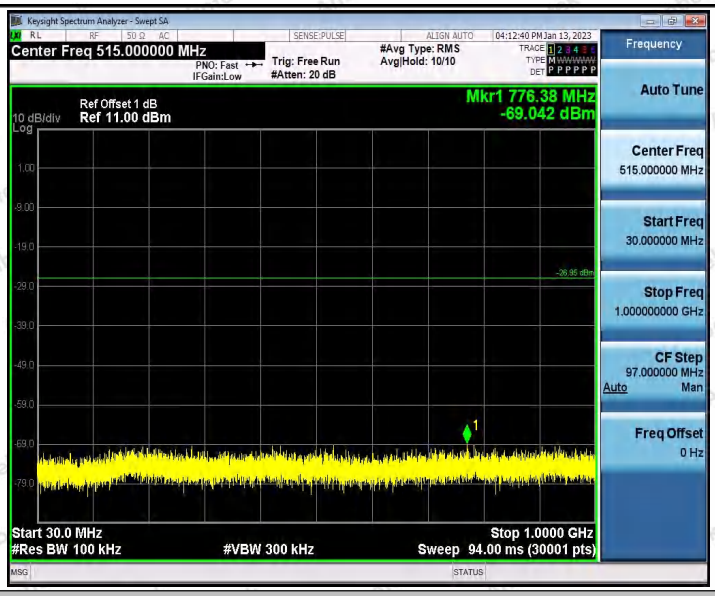


11B_Ant1_2462_1000~26500

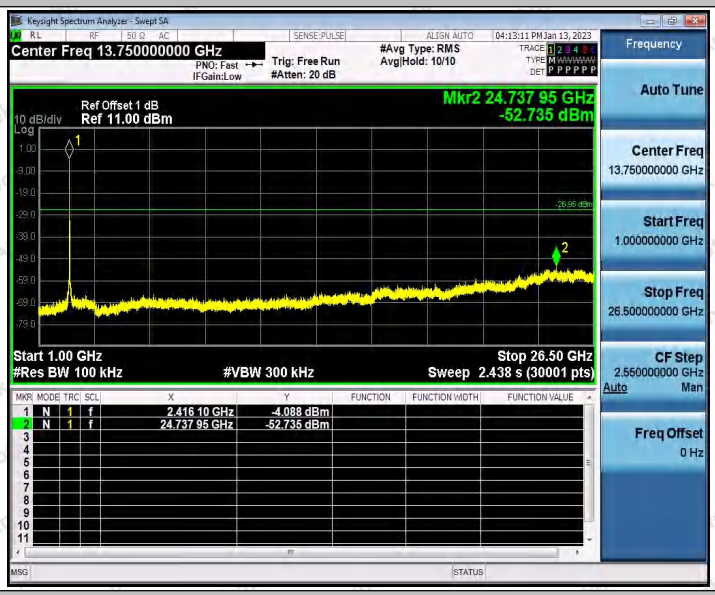


11G_Ant1_2412_0~Reference

11G_Ant1_2412_30~1000

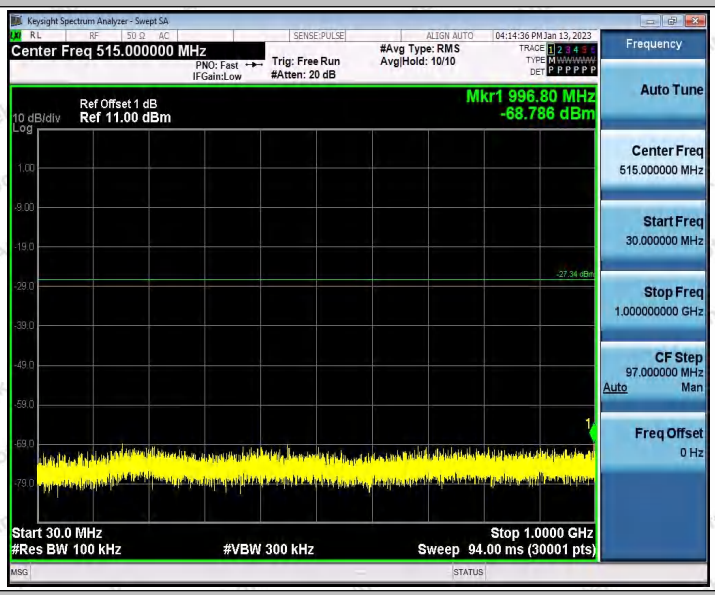


11G_Ant1_2412_1000~26500

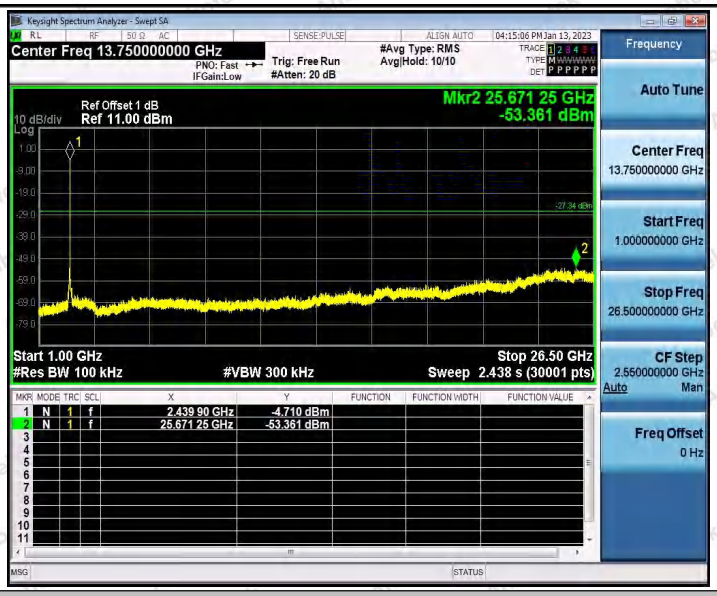


11G_Ant1_2437_0~Reference

11G_Ant1_2437_30~1000

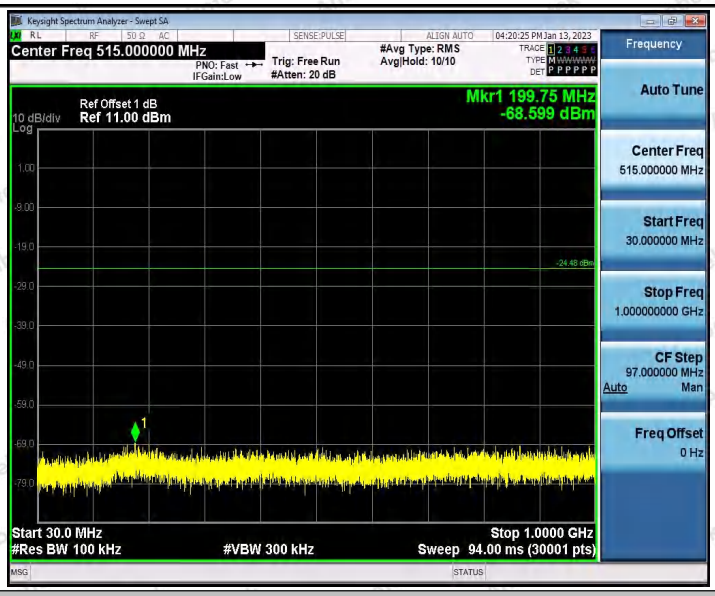


11G_Ant1_2437_1000~26500

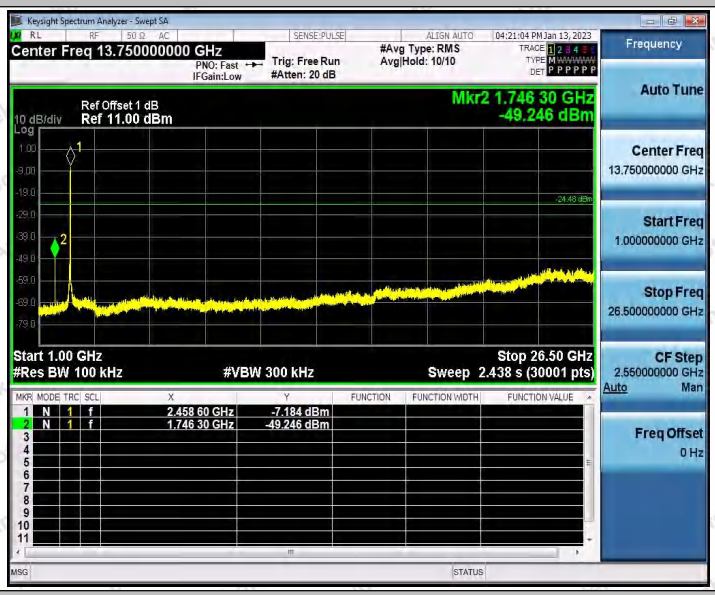


11G_Ant1_2462_0~Reference

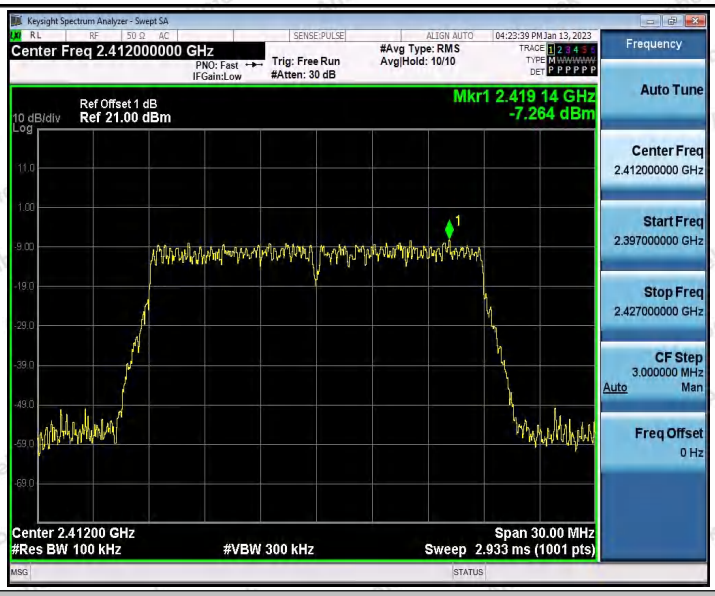
11G_Ant1_2462_30~1000



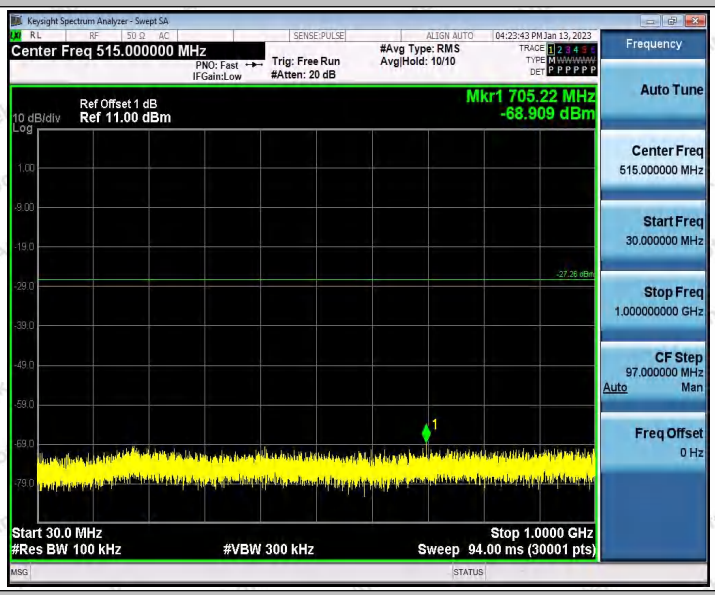
11G_Ant1_2462_1000~26500



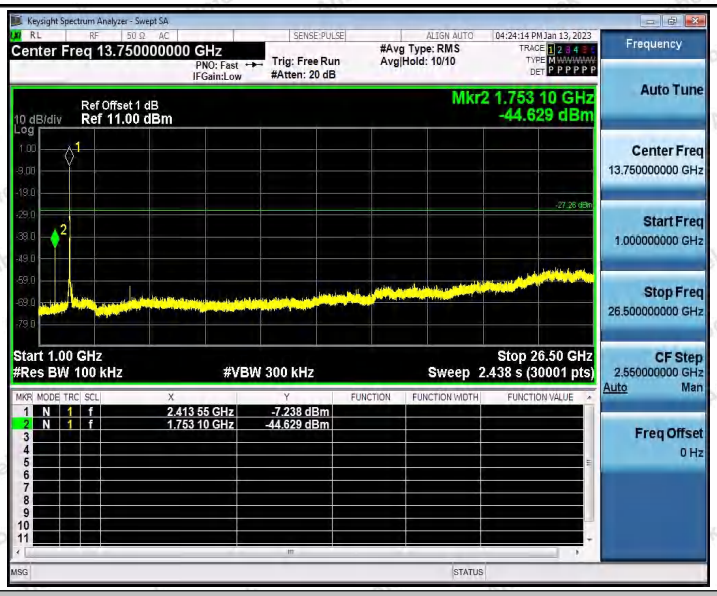
11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000

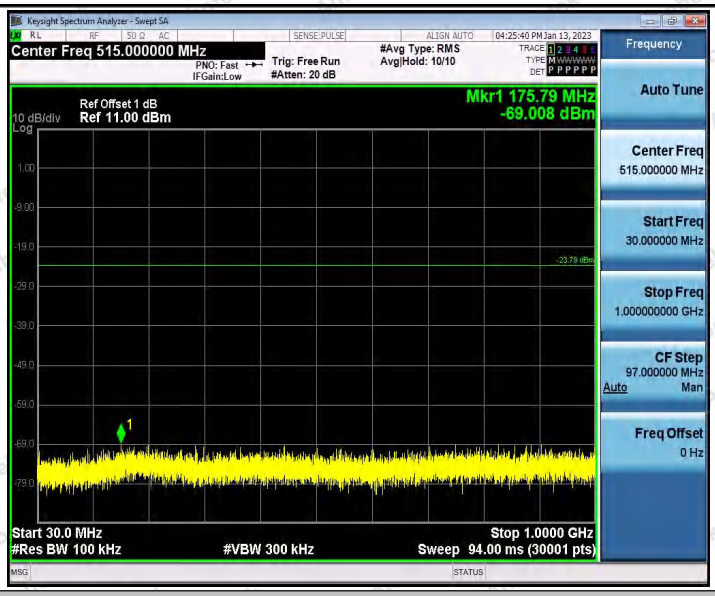


11N20_Ant1_2412_1000~26500

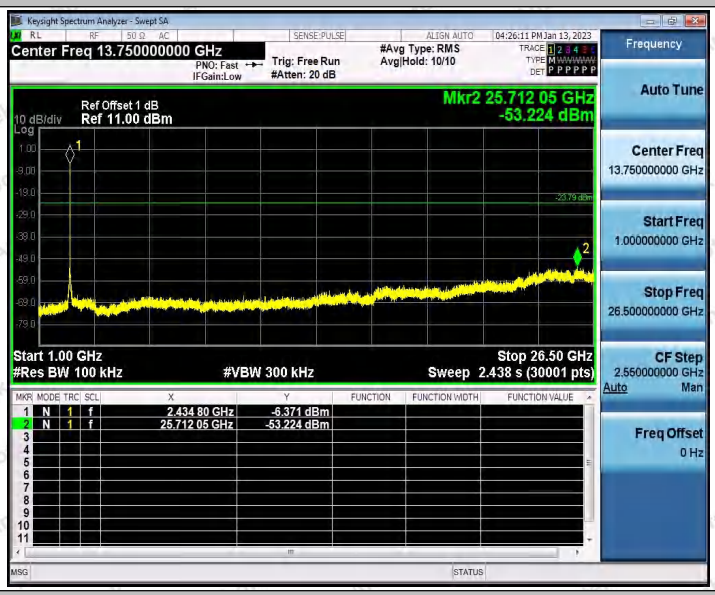


11N20_Ant1_2437_0~Reference

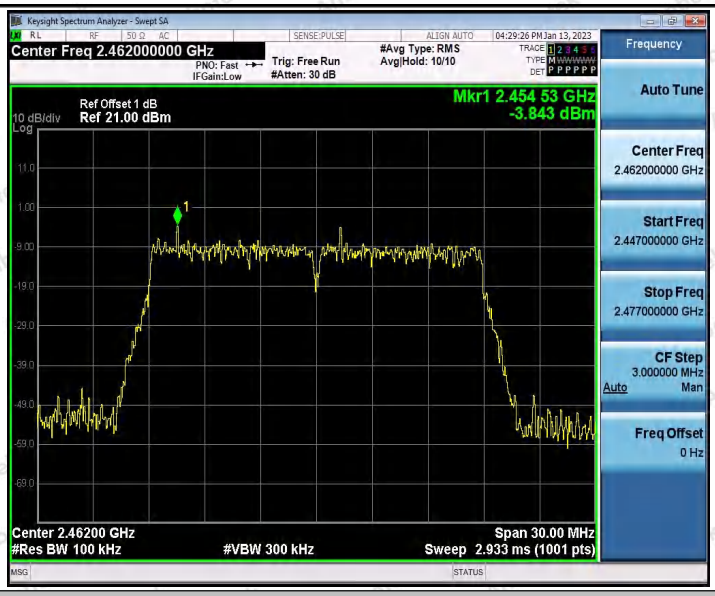
11N20_Ant1_2437_30~1000



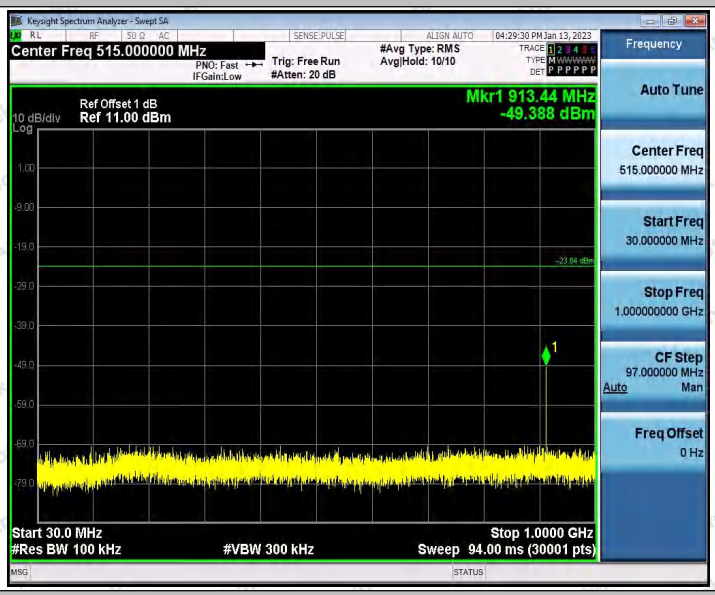
11N20_Ant1_2437_1000~26500



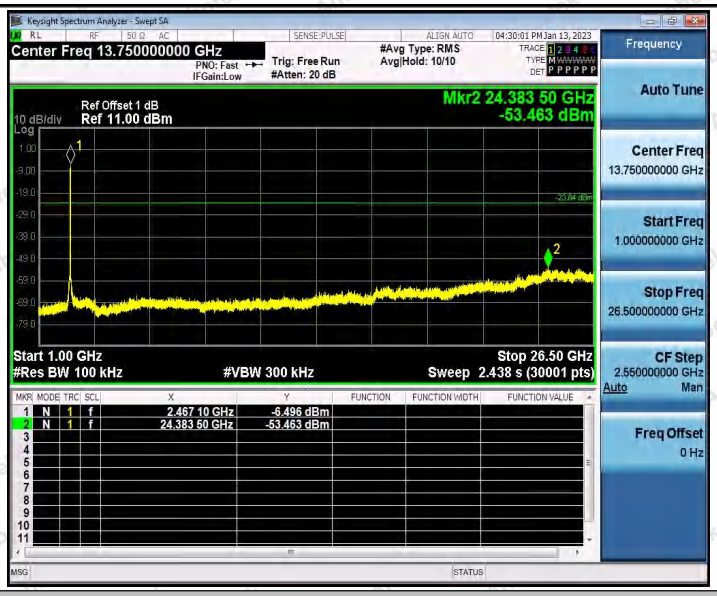
11N20_Ant1_2462_0~Reference



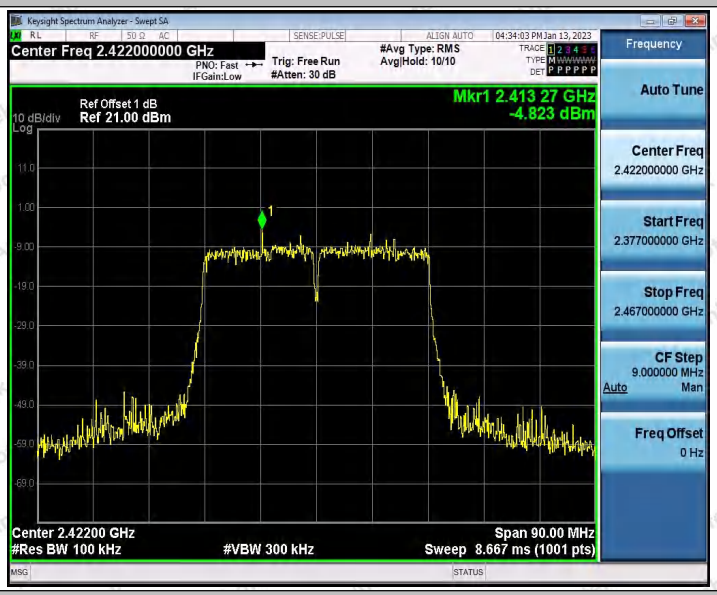
11N20_Ant1_2462_30~1000



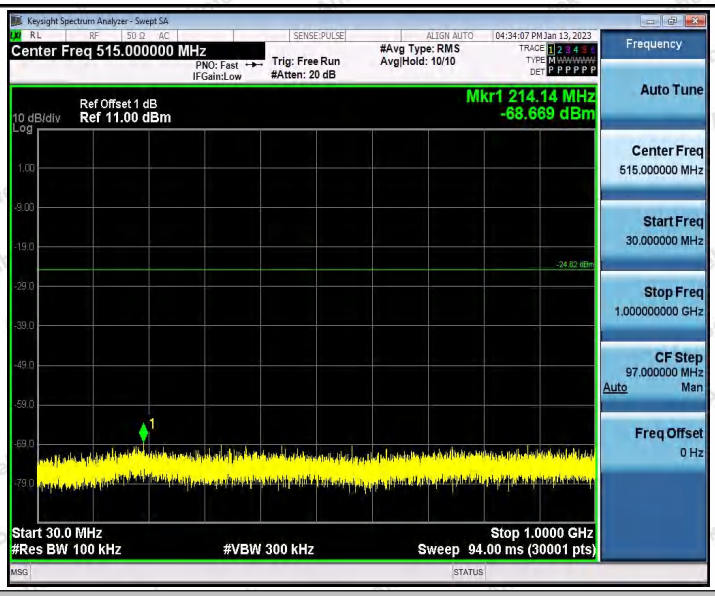
11N20_Ant1_2462_1000~26500



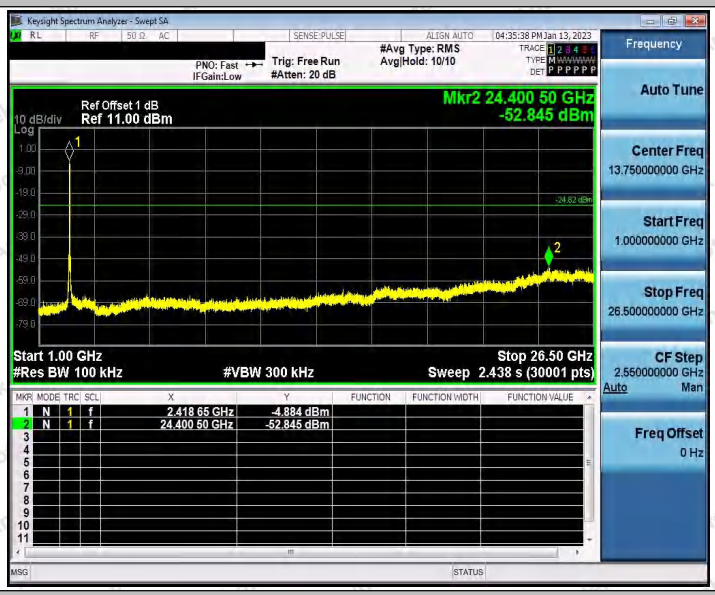
11N40_Ant1_2422_0~Reference



11N40_Ant1_2422_30~1000

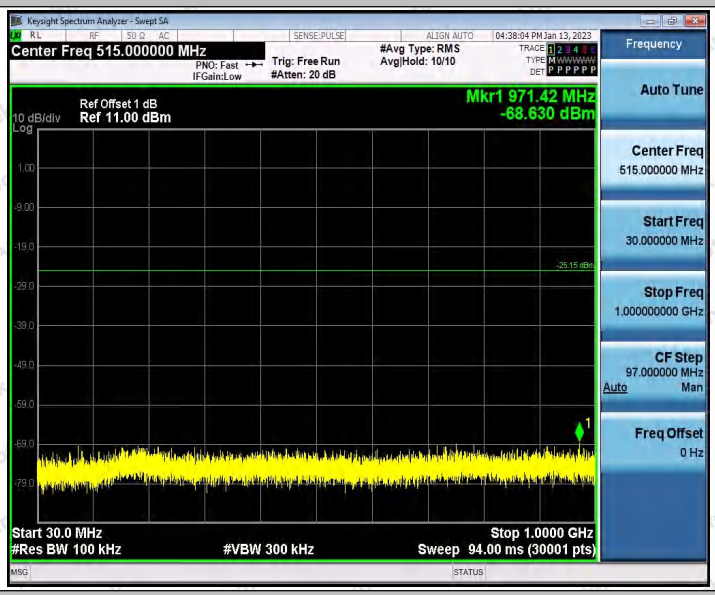


11N40_Ant1_2422_1000~26500

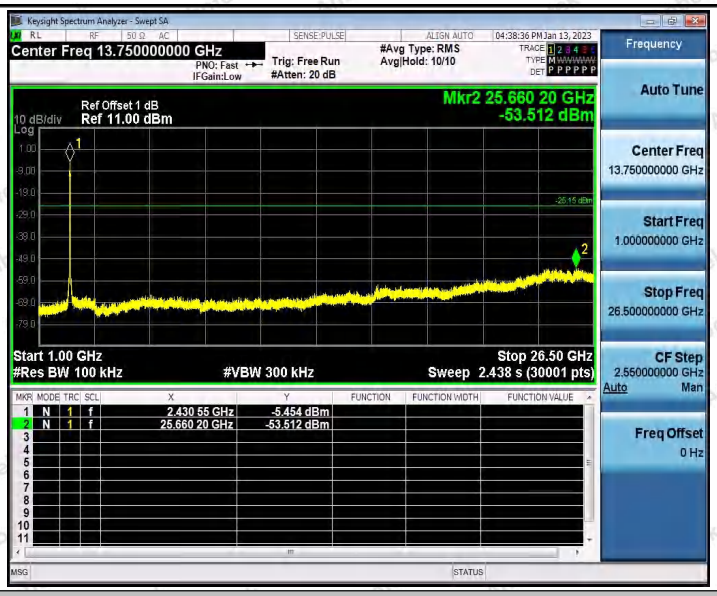


11N40_Ant1_2437_0~Reference

11N40_Ant1_2437_30~1000

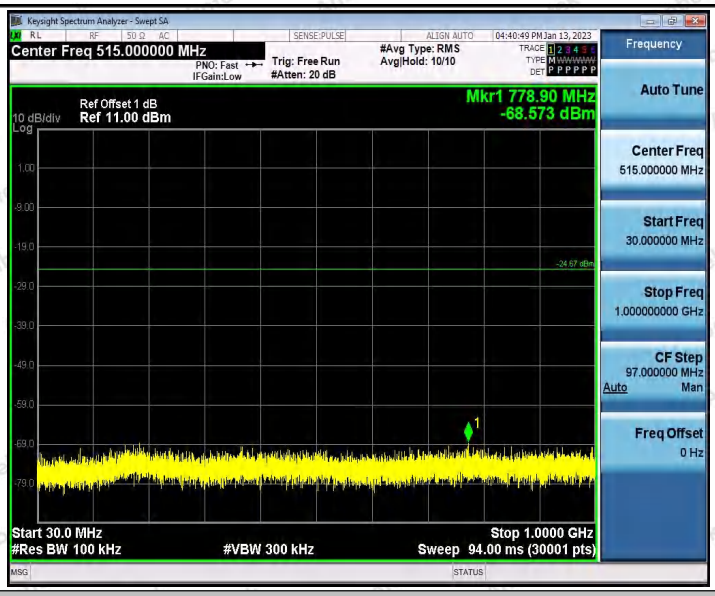


11N40_Ant1_2437_1000~26500

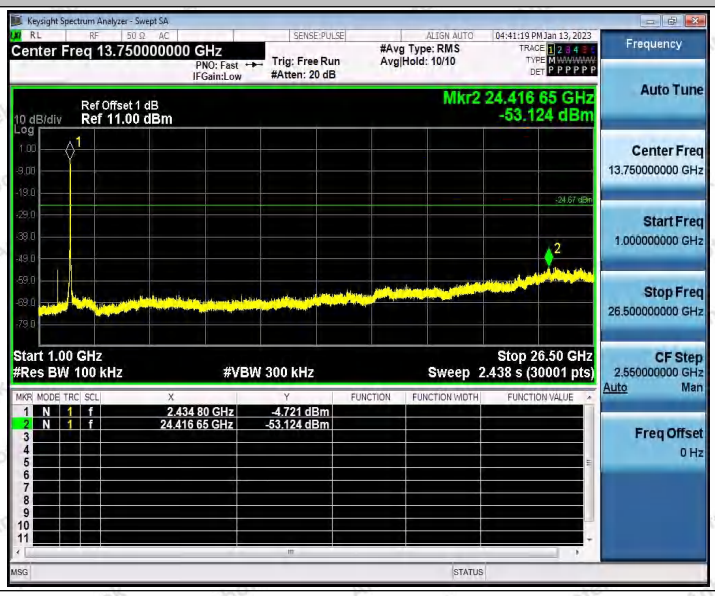


11N40_Ant1_2452_0~Reference

11N40_Ant1_2452_30~1000



11N40_Ant1_2452_1000~26500



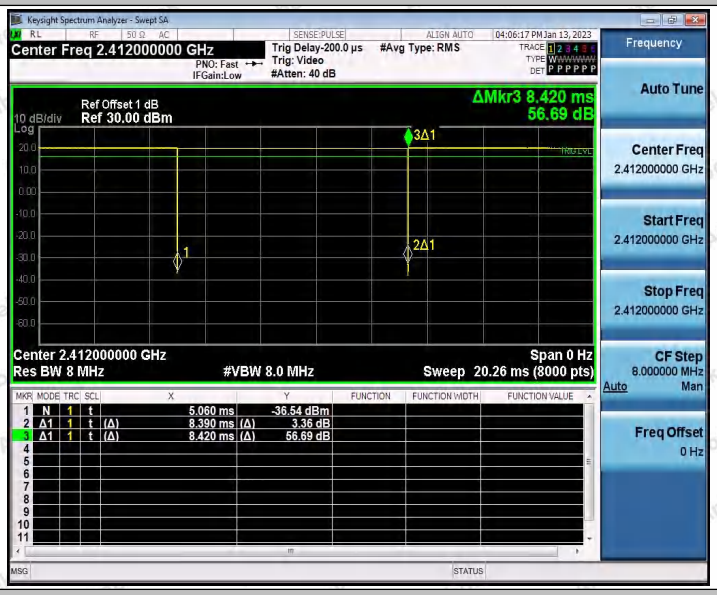
Appendix G: Duty Cycle

Test Result

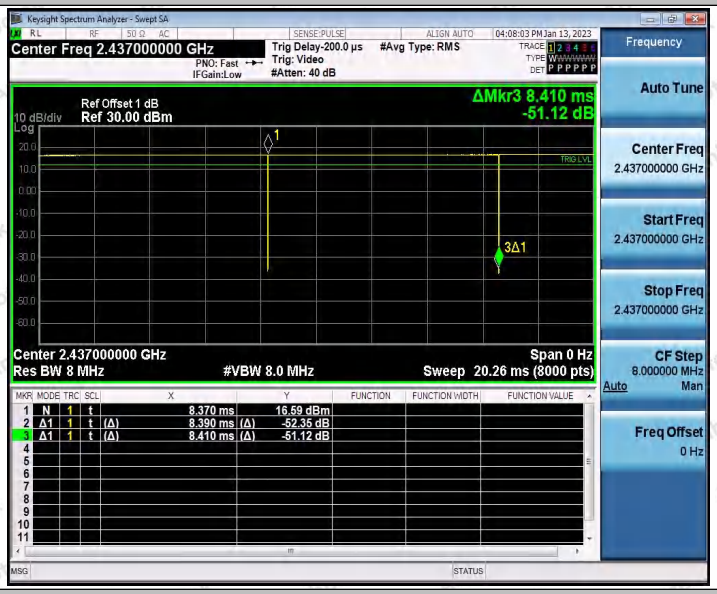
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
		2437	8.39	8.41	99.76	0.01
		2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.42	97.89	0.09
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.43	97.20	0.12
11N20	Ant1	2412	1.30	1.34	97.01	0.13
		2437	1.29	1.33	96.99	0.13
		2462	1.29	1.33	96.99	0.13
11N40	Ant1	2422	0.65	0.68	95.59	0.20
		2437	0.65	0.68	95.59	0.20
		2452	0.65	0.68	95.59	0.20

Test Graphs

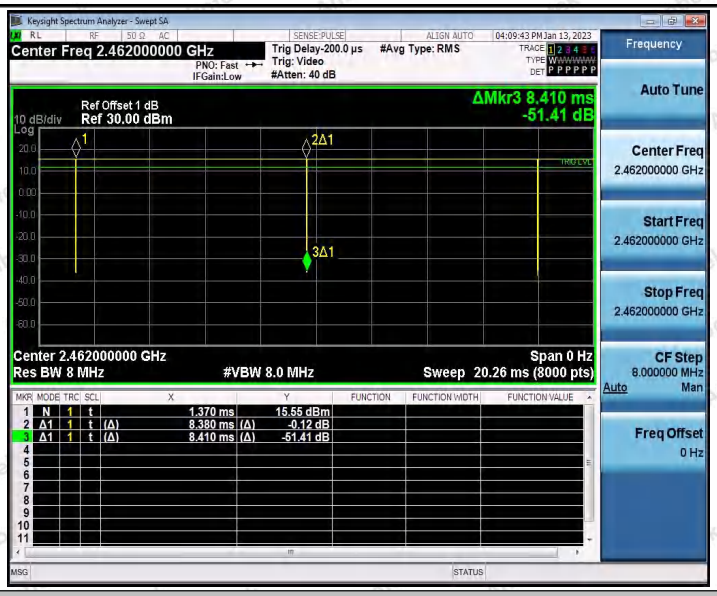
11B_Ant1_2412



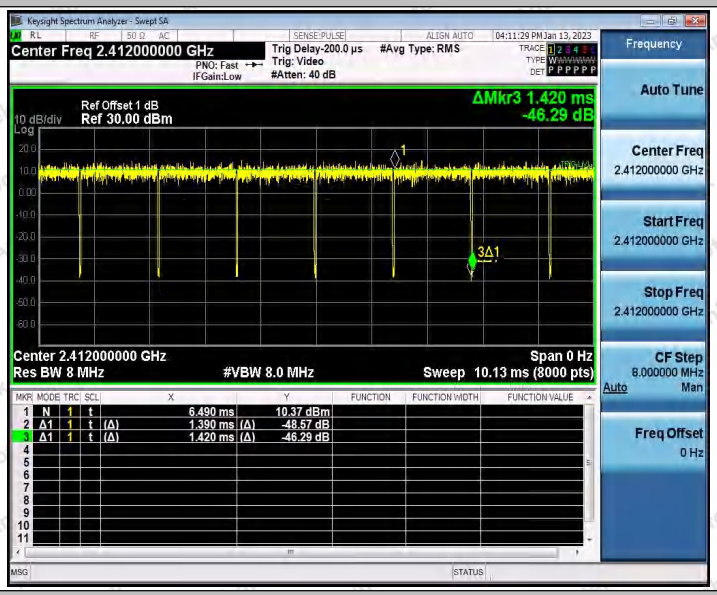
11B_Ant1_2437



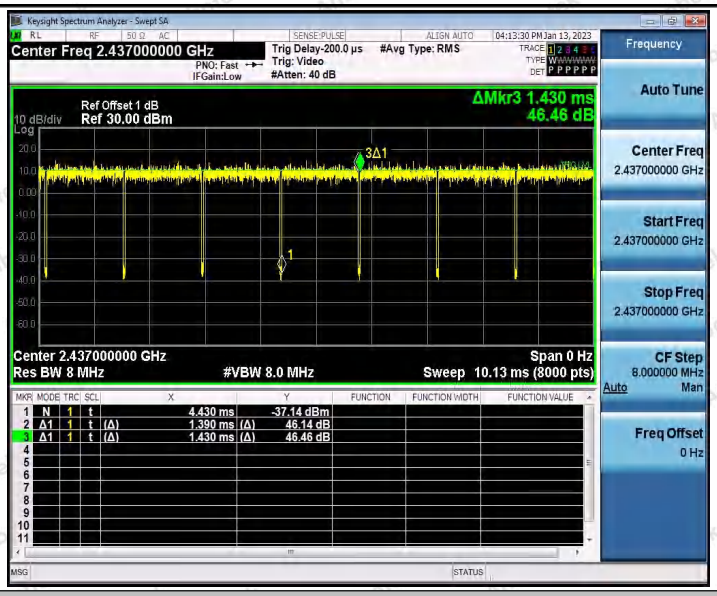
11B_Ant1_2462



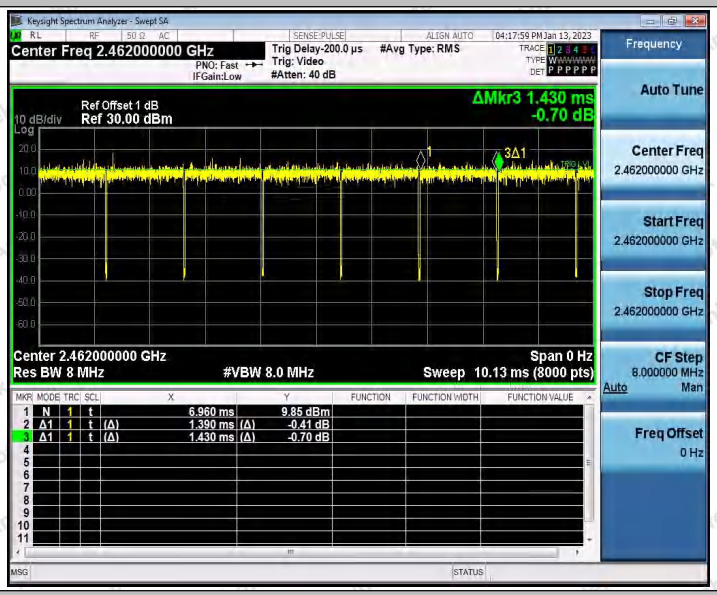
11G_Ant1_2412



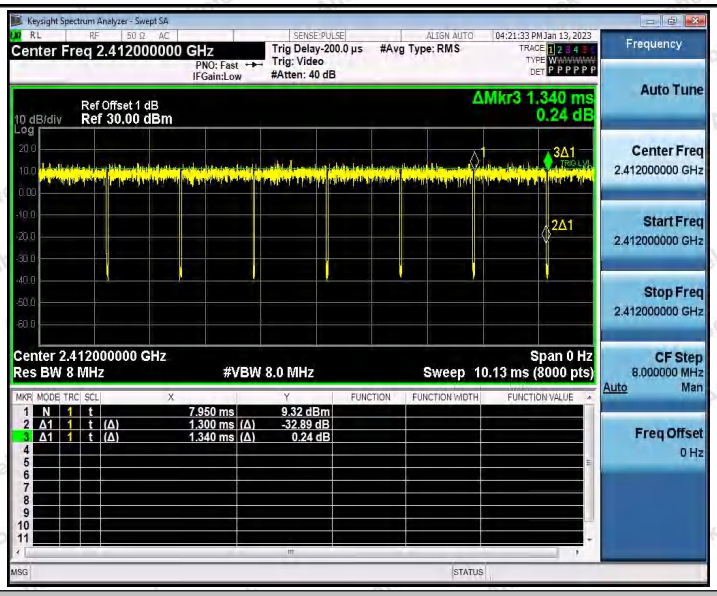
11G_Ant1_2437



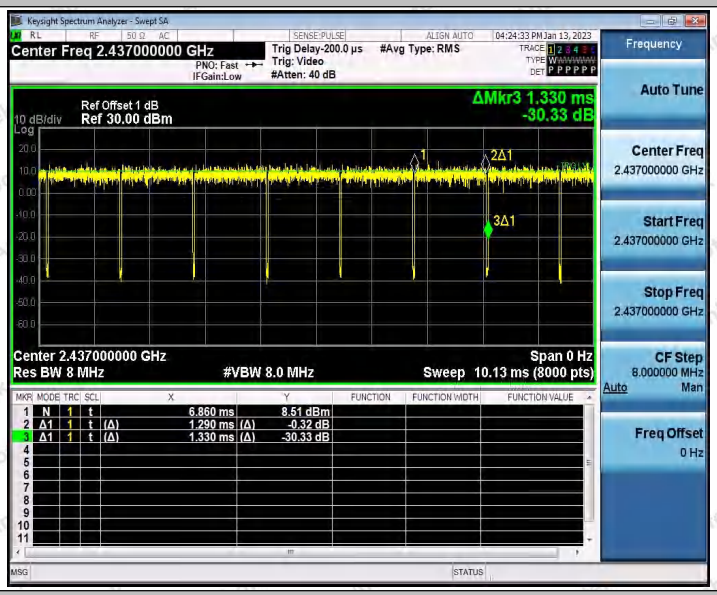
11G_Ant1_2462



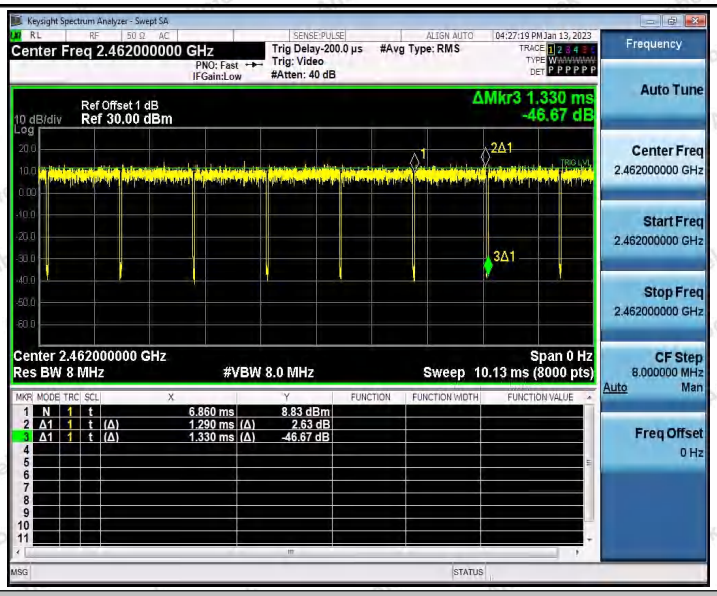
11N20_Ant1_2412



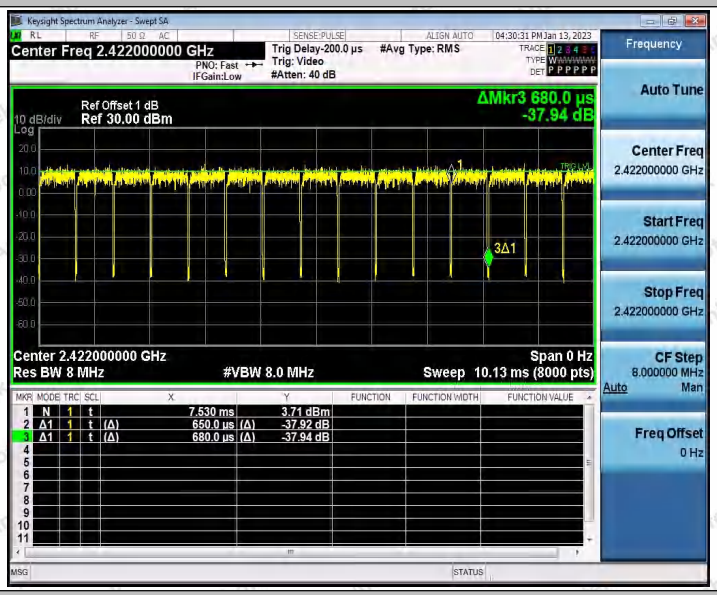
11N20_Ant1_2437



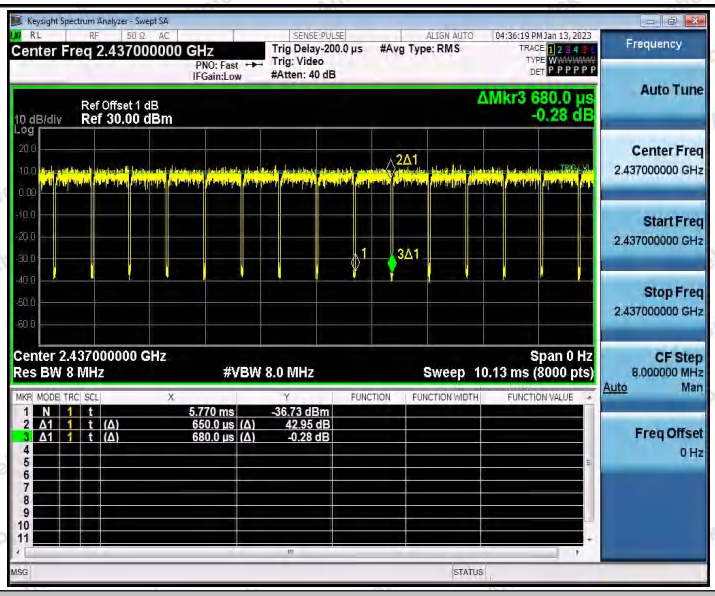
11N20_Ant1_2462



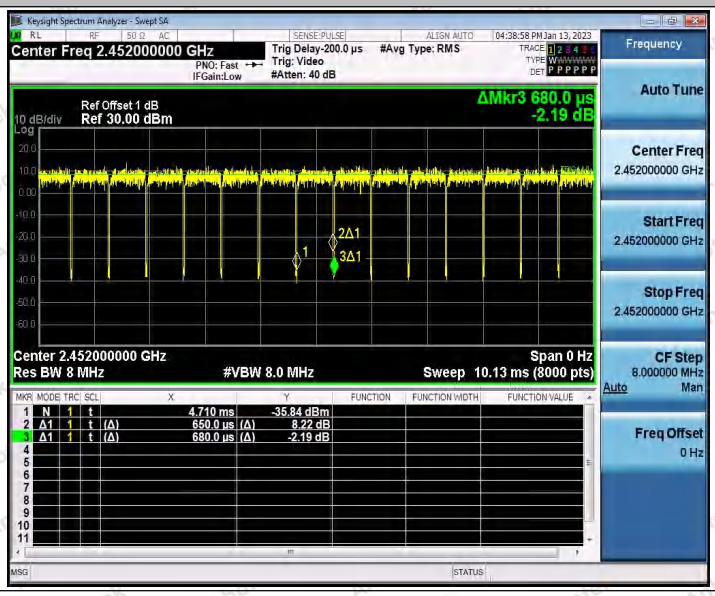
11N40_Ant1_2422



11N40_Ant1_2437



11N40_Ant1_2452



---End---