

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A68F-LX2

Company : Shenzhen Hingin Technology Co.,Ltd

EUT : LaserPecker LX2

Model Number : LX2

Report No. : CTA25102700801

Reviewed By : Eric Wang

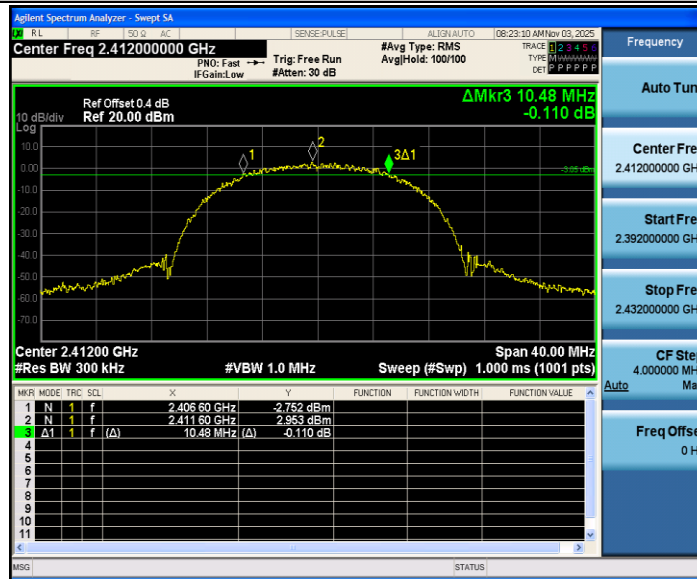
Appendix A: DTS Bandwidth

Test Result

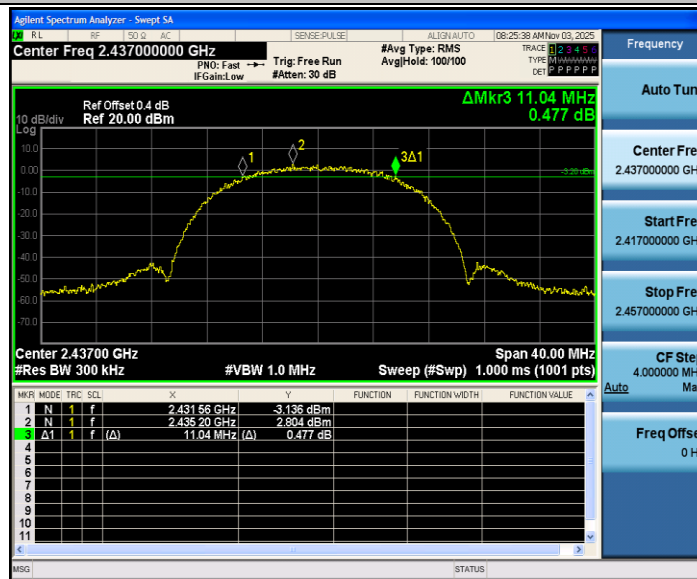
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.480	2406.600	2417.080	0.5	PASS
		2437	11.040	2431.560	2442.600	0.5	PASS
		2462	11.160	2456.480	2467.640	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.240	2453.920	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.400	2428.320	2445.720	0.5	PASS
		2462	17.480	2453.280	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.080	2404.080	2440.160	0.5	PASS
		2437	36.080	2419.000	2455.080	0.5	PASS
		2452	35.920	2434.080	2470.000	0.5	PASS

Test Graphs

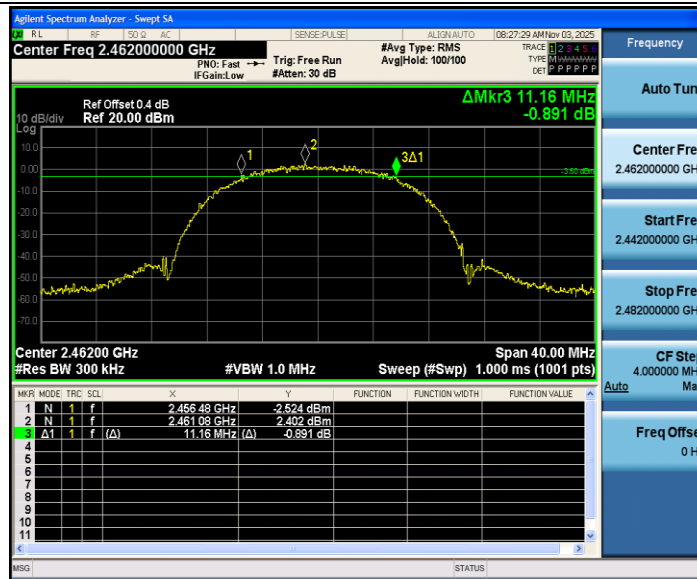
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

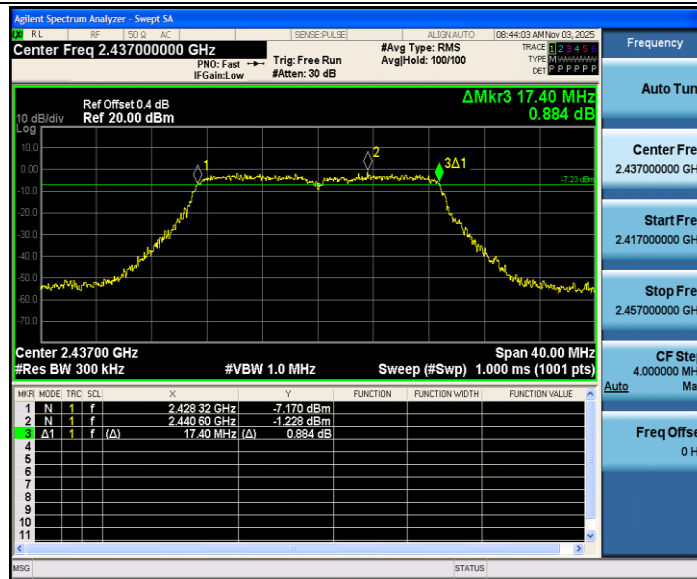


11G_Ant1_2412



11G_Ant1_2437





11N20SISO_Ant1_2462



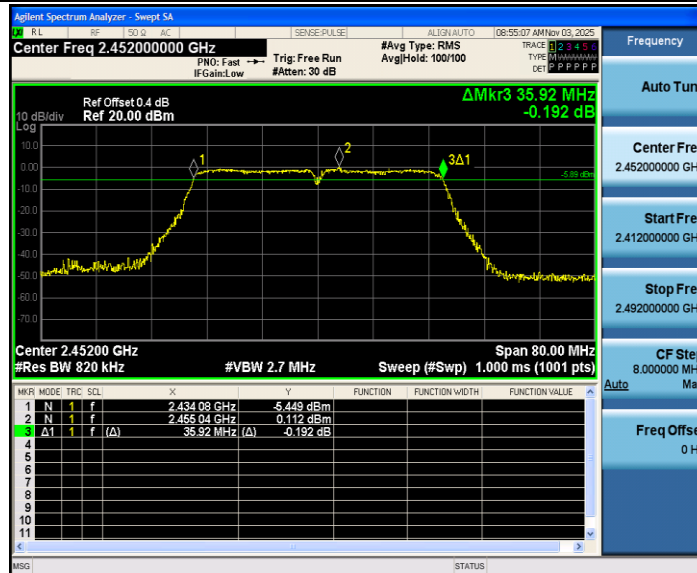
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



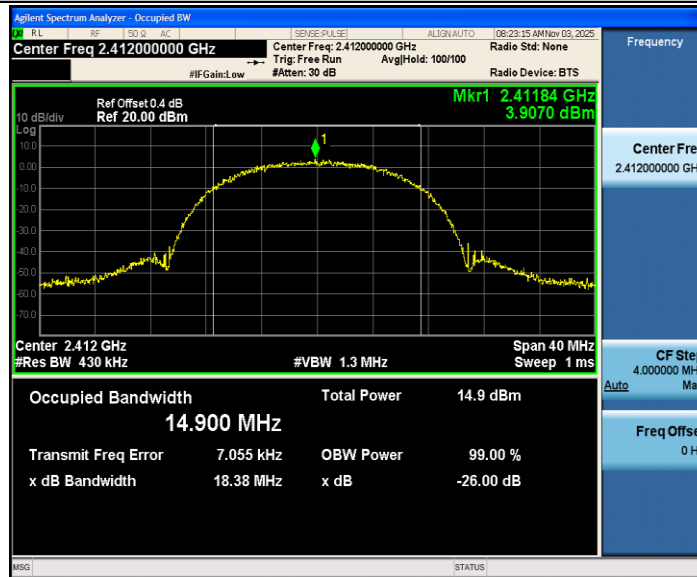
Appendix B: Occupied Channel Bandwidth

Test Result

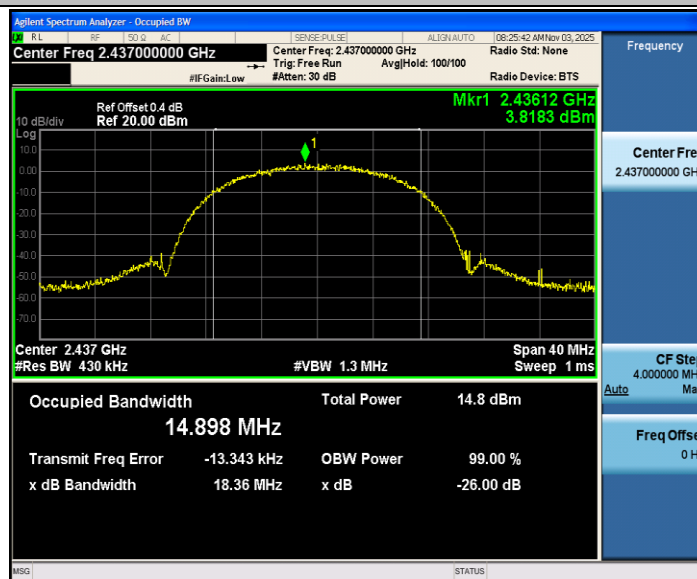
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.900	2404.5571	2419.4571	---	---
		2437	14.898	2429.5377	2444.4357	---	---
		2462	14.860	2454.5508	2469.4108	---	---
11G	Ant1	2412	16.781	2403.6551	2420.4361	---	---
		2437	16.824	2428.6293	2445.4533	---	---
		2462	16.821	2453.6383	2470.4593	---	---
11N20SISO	Ant1	2412	17.881	2403.0702	2420.9512	---	---
		2437	17.781	2428.1516	2445.9326	---	---
		2462	17.847	2453.0828	2470.9298	---	---
11N40SISO	Ant1	2422	36.144	2403.9932	2440.1372	---	---
		2437	36.209	2418.9616	2455.1706	---	---
		2452	36.135	2433.9479	2470.0829	---	---

Test Graphs

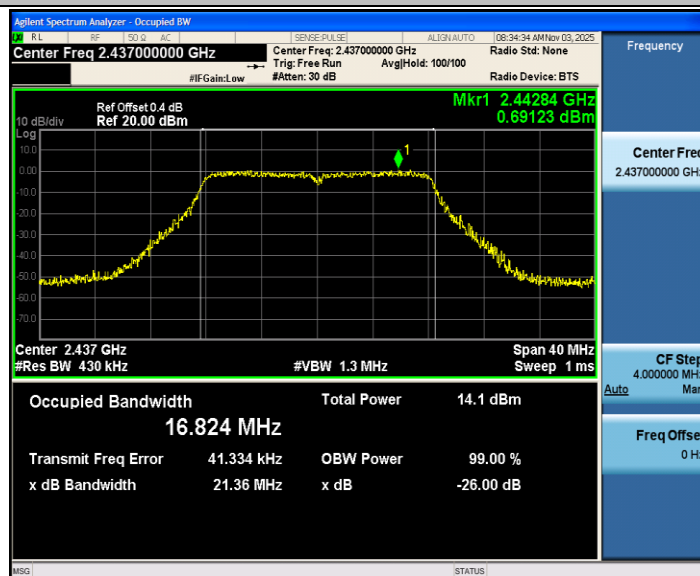
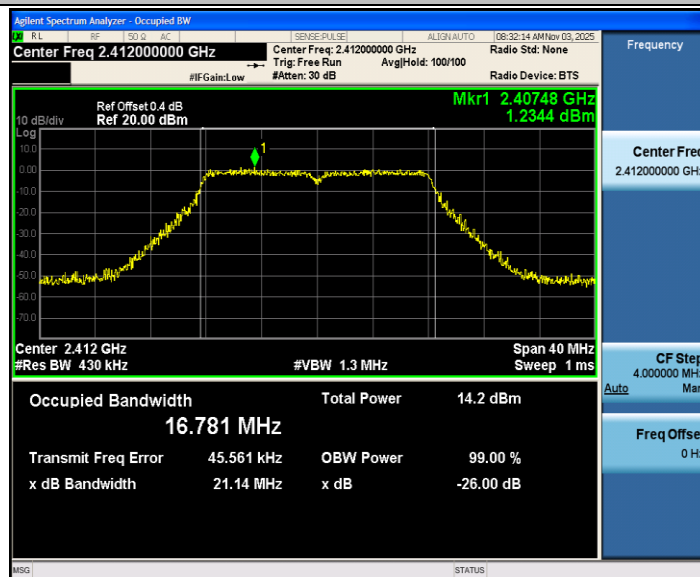
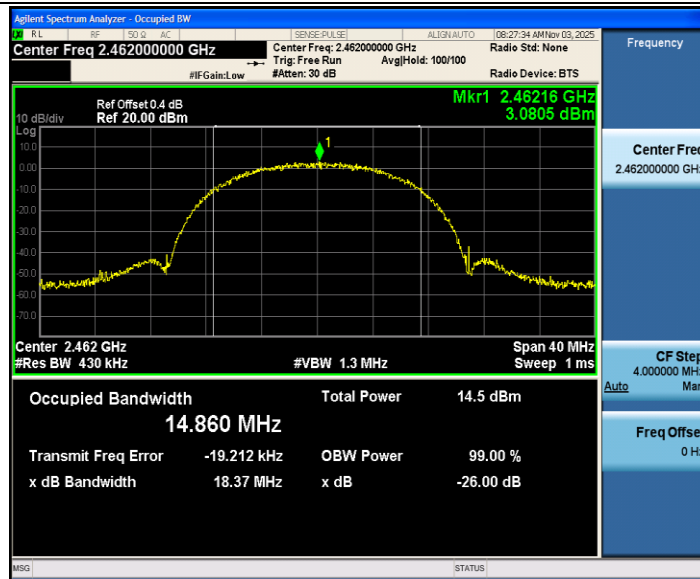
11B_Ant1_2412



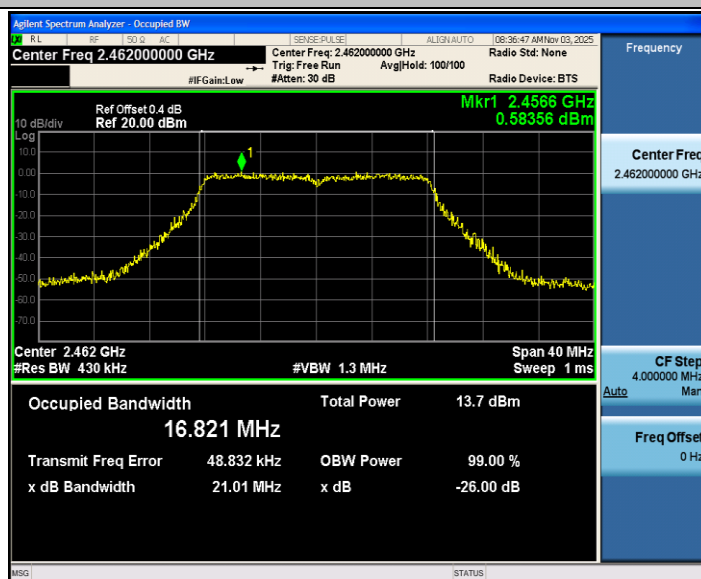
11B_Ant1_2437



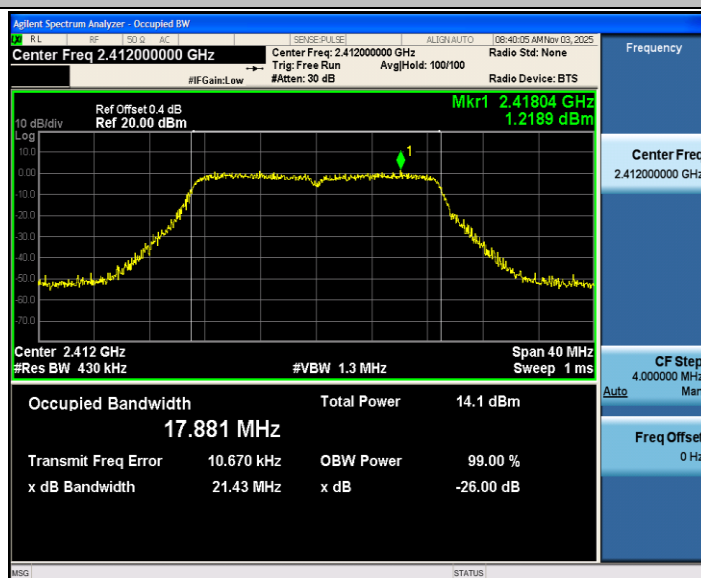
11B_Ant1_2462



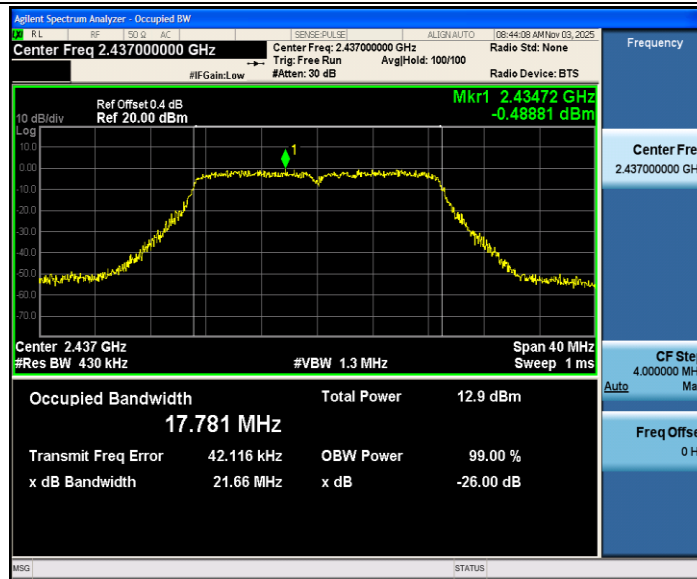
11G_Ant1_2462



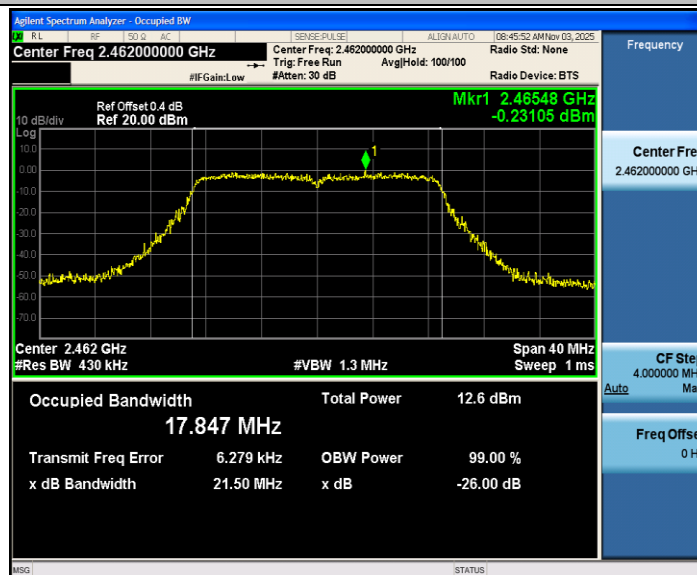
11N20SISO_Ant1_2412



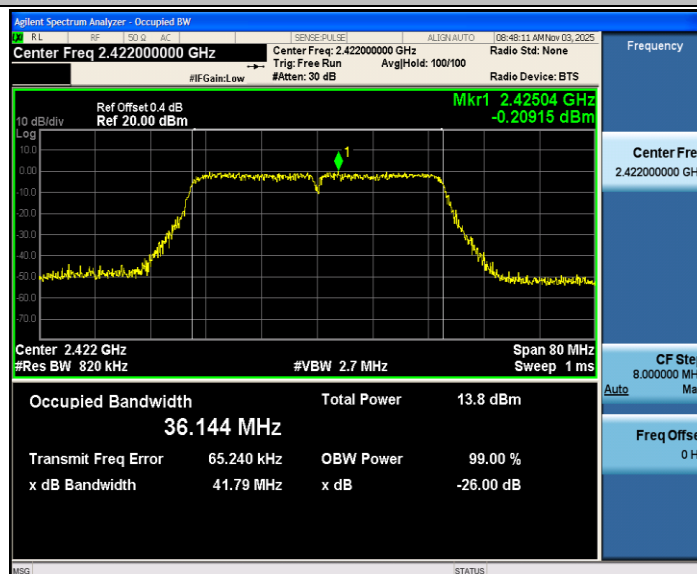
11N20SISO_Ant1_2437



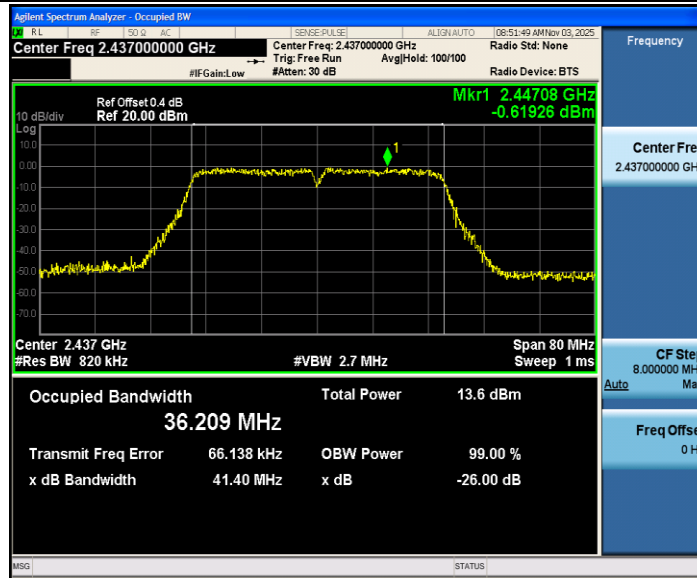
11N20SISO_Ant1_2462



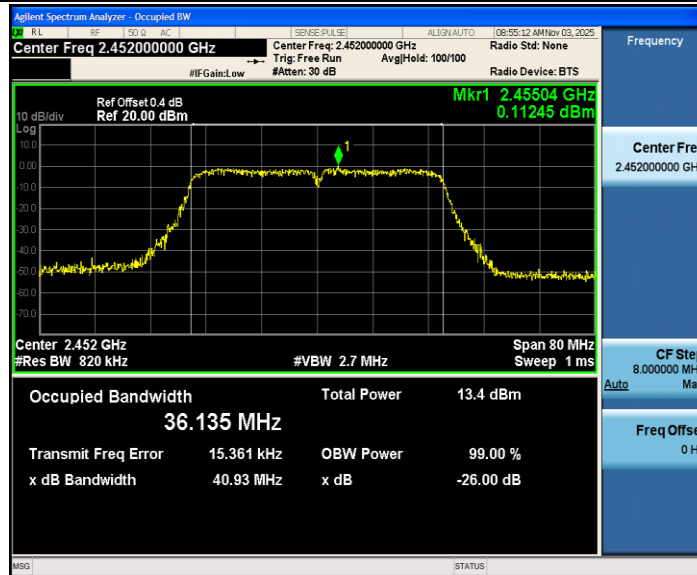
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.09	≤30.00	PASS
		2437	13.95	≤30.00	PASS
		2462	13.71	≤30.00	PASS
11G	Ant1	2412	14.92	≤30.00	PASS
		2437	14.99	≤30.00	PASS
		2462	14.50	≤30.00	PASS
11N20SISO	Ant1	2412	13.91	≤30.00	PASS
		2437	13.96	≤30.00	PASS
		2462	13.57	≤30.00	PASS
11N40SISO	Ant1	2422	14.10	≤30.00	PASS
		2437	13.83	≤30.00	PASS
		2452	13.65	≤30.00	PASS

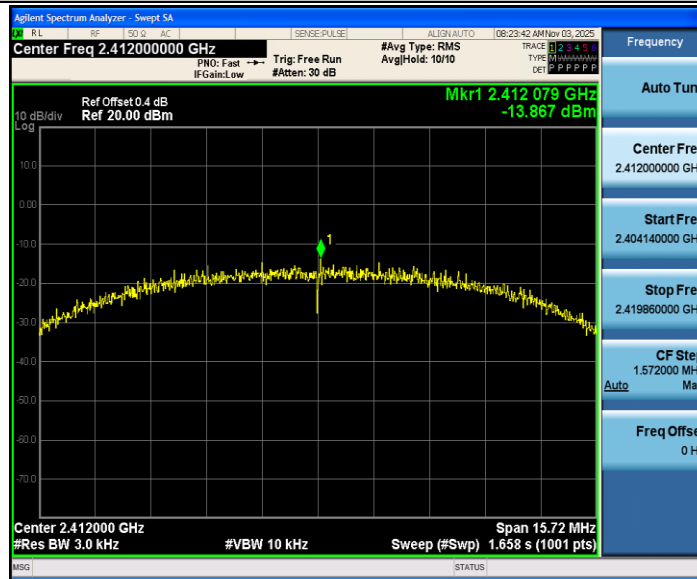
Appendix D: Maximum power spectral density

Test Result

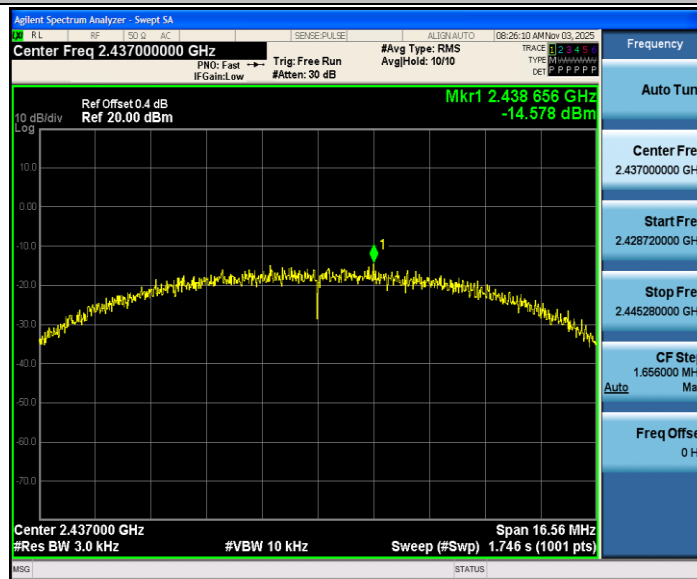
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.87	≤8.00	PASS
		2437	-14.58	≤8.00	PASS
		2462	-14.82	≤8.00	PASS
11G	Ant1	2412	-16.07	≤8.00	PASS
		2437	-16.43	≤8.00	PASS
		2462	-16.38	≤8.00	PASS
11N20SISO	Ant1	2412	-17.34	≤8.00	PASS
		2437	-17.42	≤8.00	PASS
		2462	-17.63	≤8.00	PASS
11N40SISO	Ant1	2422	-20.75	≤8.00	PASS
		2437	-21.18	≤8.00	PASS
		2452	-20.83	≤8.00	PASS

Test Graphs

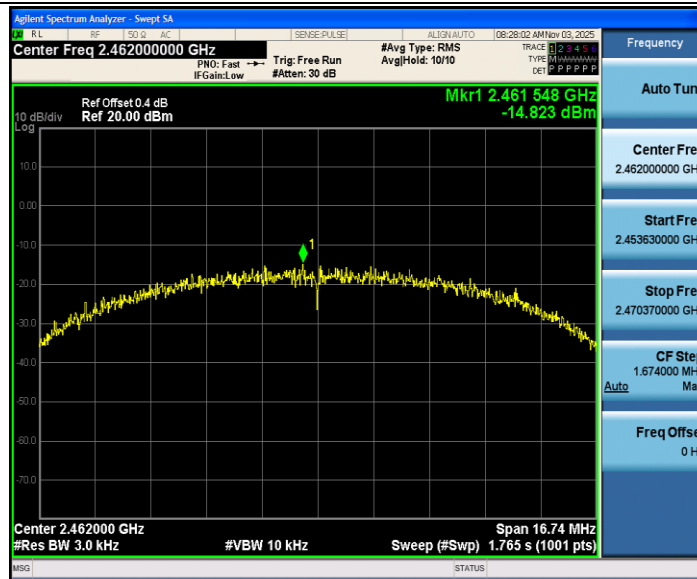
11B_Ant1_2412



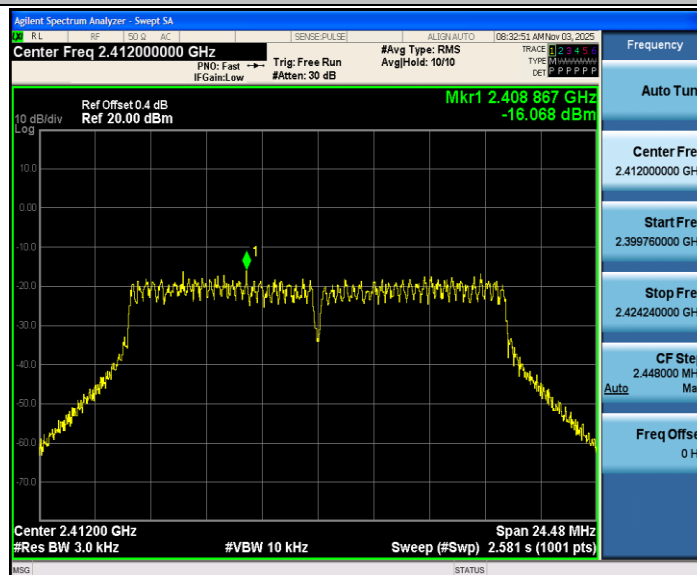
11B_Ant1_2437



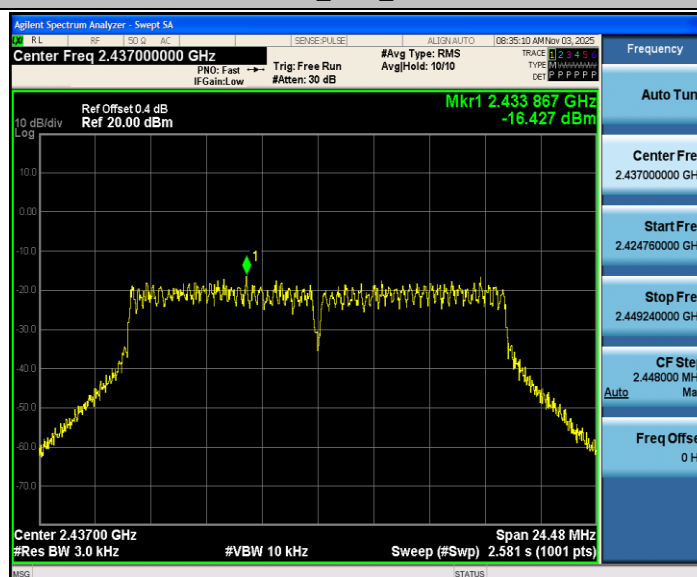
11B_Ant1_2462



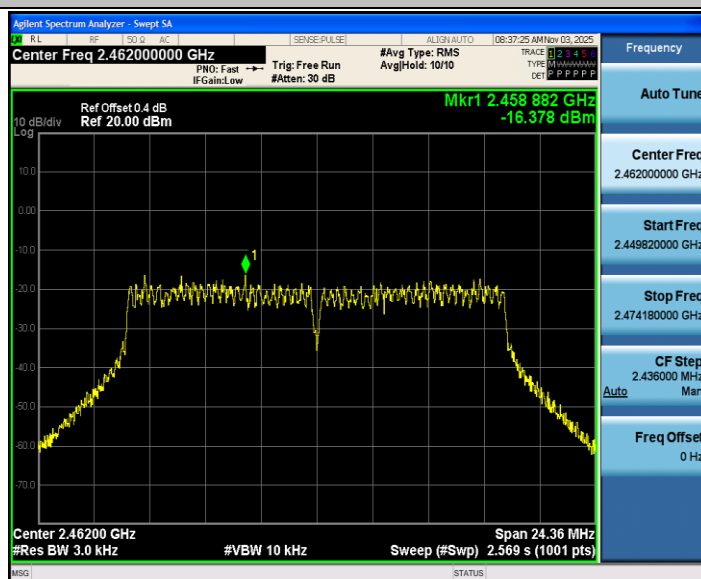
11G_Ant1_2412



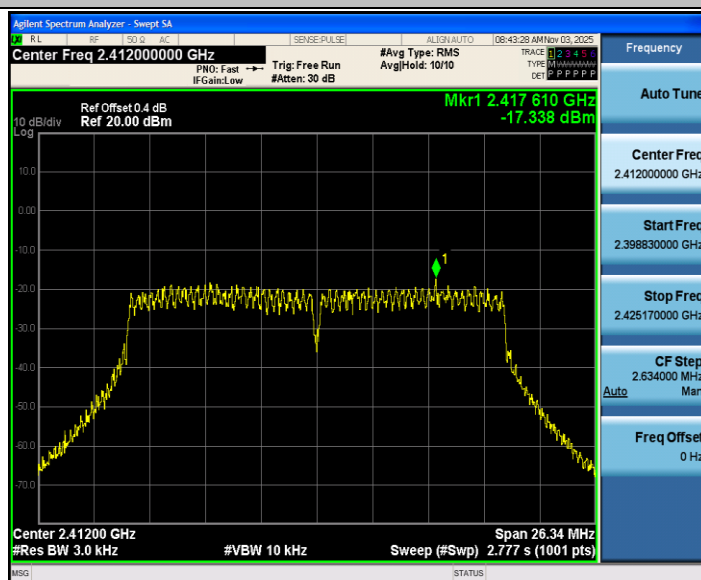
11G_Ant1_2437



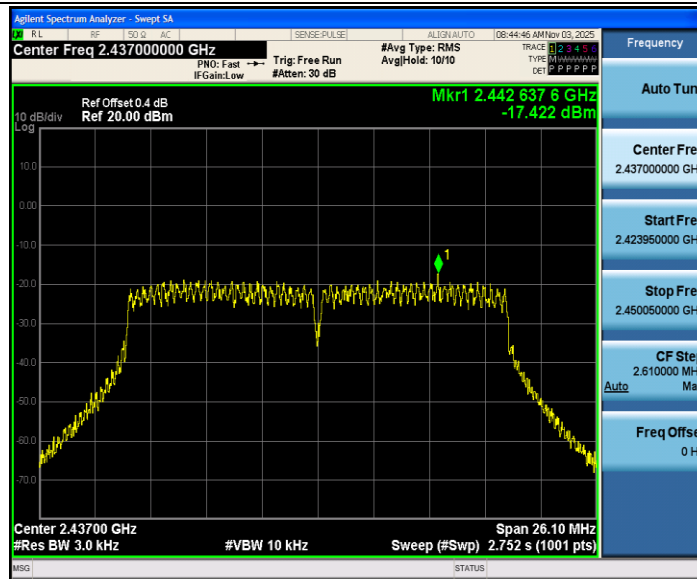
11G_Ant1_2462



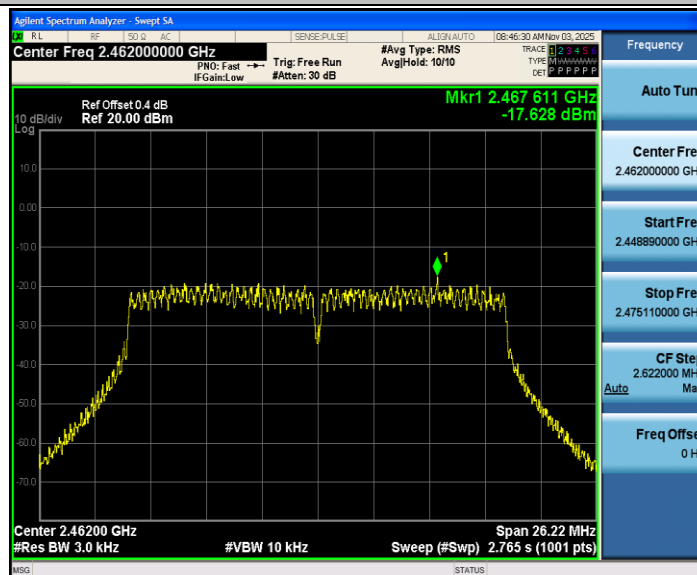
11N20SISO_Ant1_2412



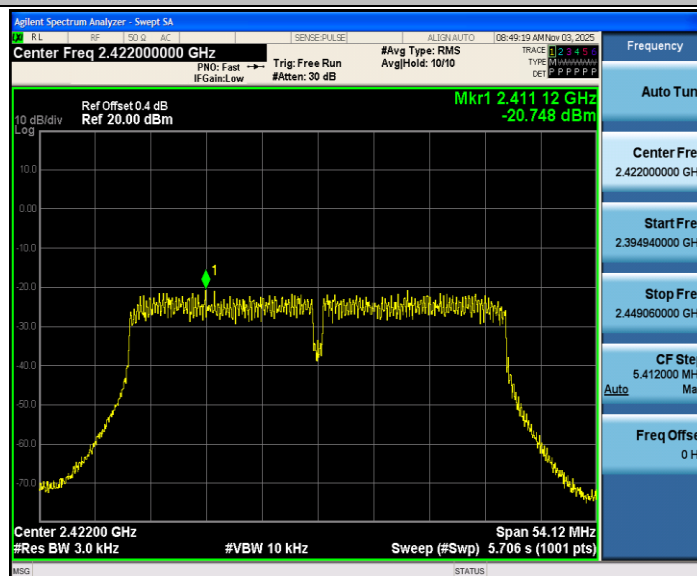
11N20SISO_Ant1_2437



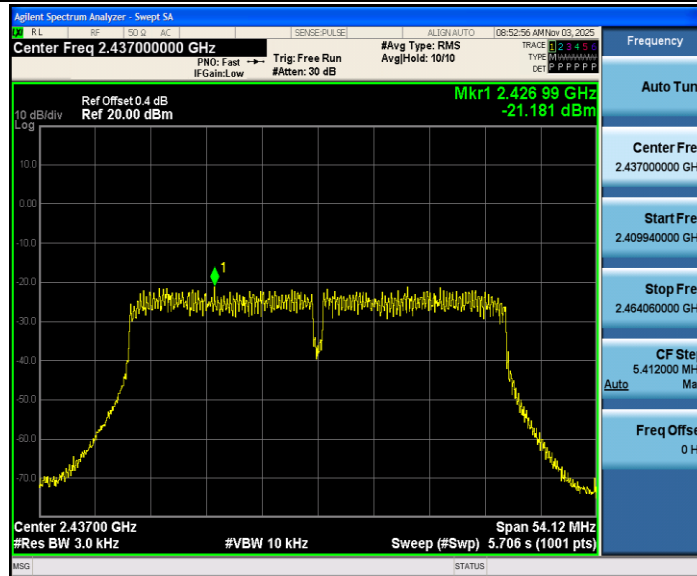
11N20SISO_Ant1_2462



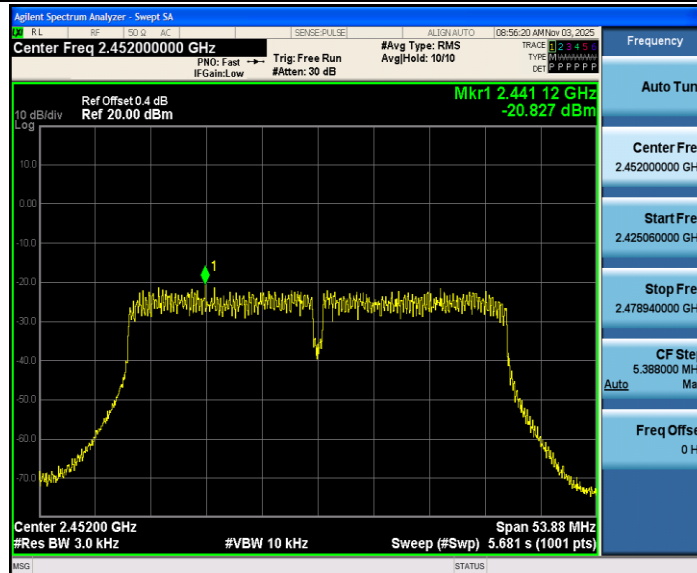
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



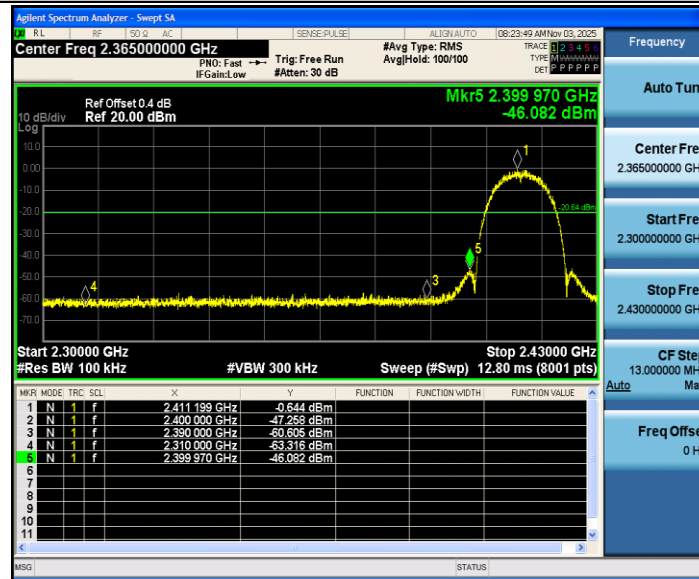
Appendix E: Band edge measurements

Test Result

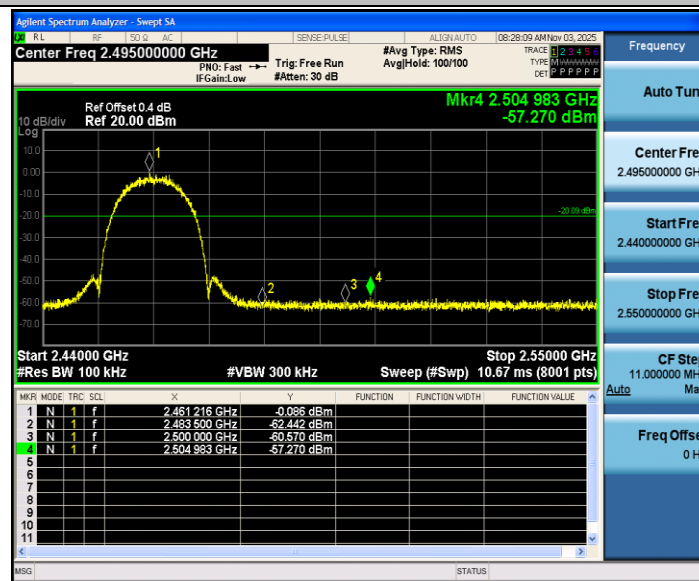
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.64	-46.08	≤-20.64	PASS
		High	2462	-0.09	-57.27	≤-20.09	PASS
11G	Ant1	Low	2412	-2.74	-43.03	≤-22.74	PASS
		High	2462	-3.54	-56.07	≤-23.54	PASS
11N20SISO	Ant1	Low	2412	-2.64	-42.7	≤-22.64	PASS
		High	2462	-4.16	-57.24	≤-24.16	PASS
11N40SISO	Ant1	Low	2422	-6.48	-45.68	≤-26.48	PASS
		High	2452	-6.50	-56.92	≤-26.5	PASS

Test Graphs

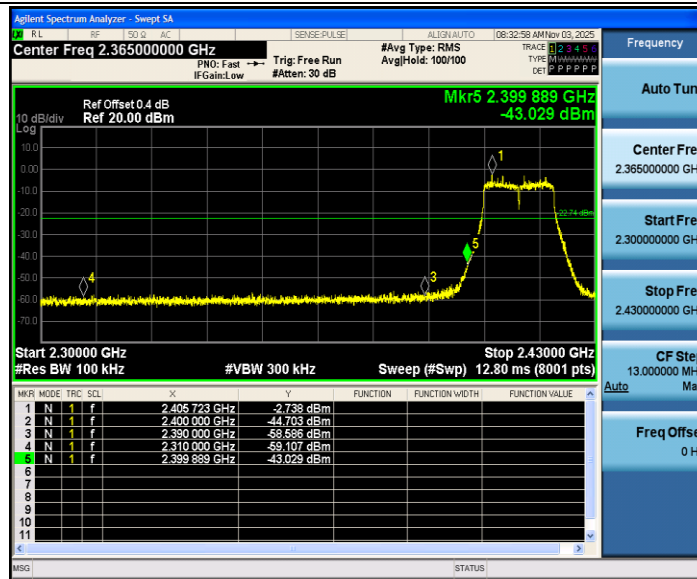
11B_Ant1_Low_2412



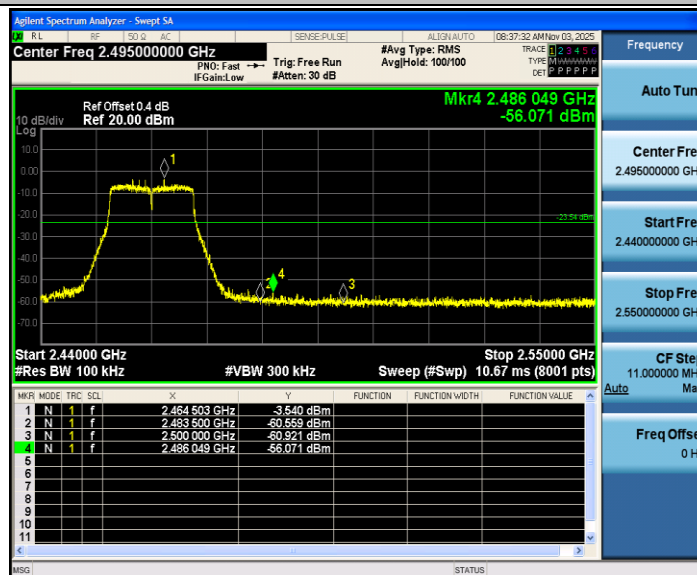
11B_Ant1_High_2462



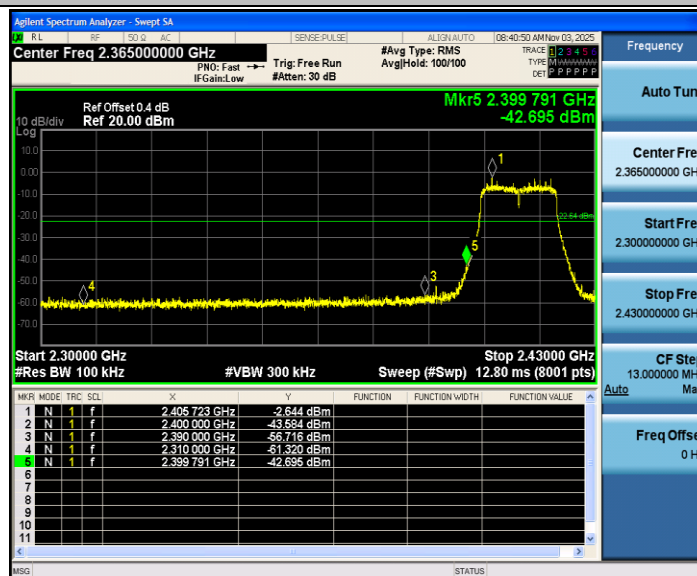
11G_Ant1_Low_2412



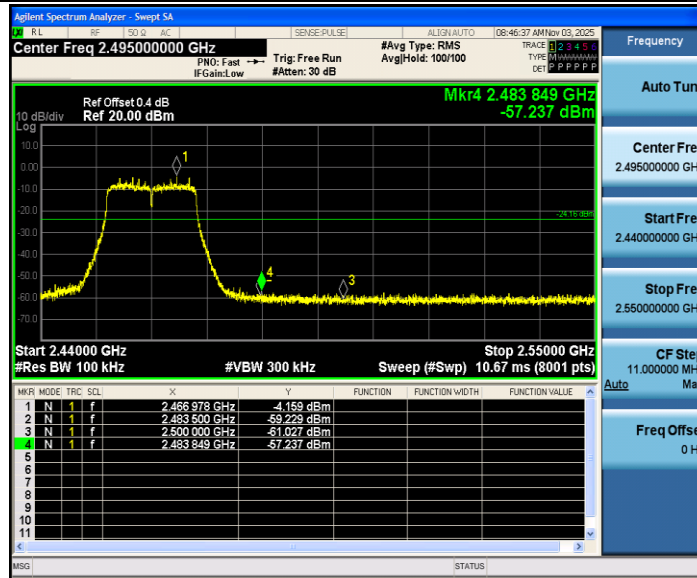
11G_Ant1_High_2462



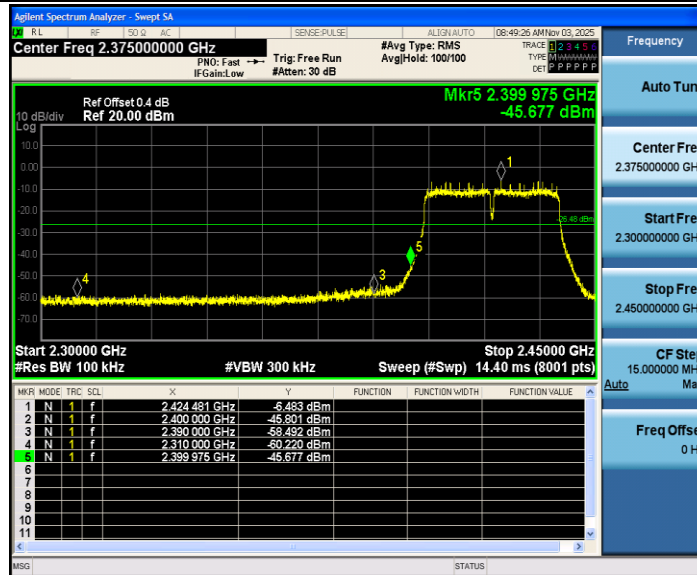
11N20SISO_Ant1_Low_2412



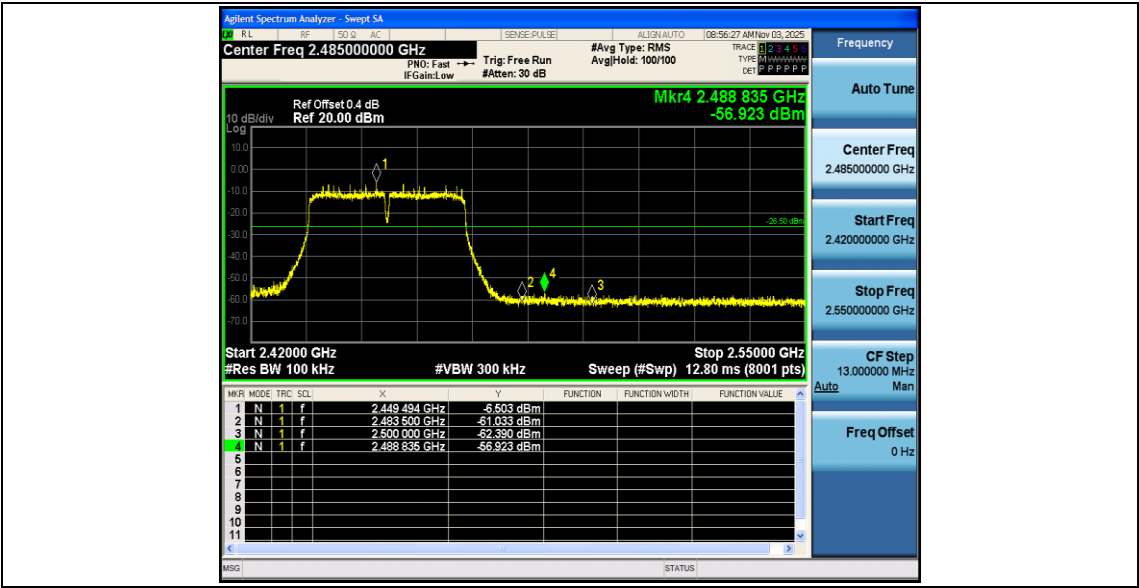
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

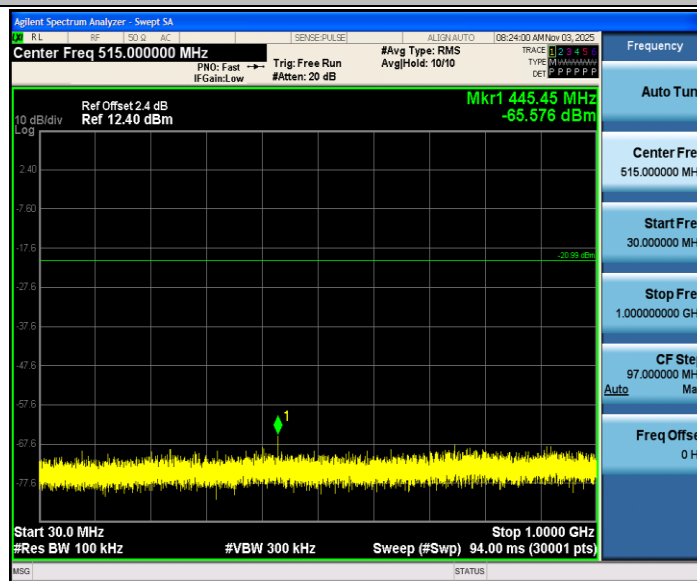
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-65.58	≤-20.99	PASS
			1000~26500	-0.99	-55.72	≤-20.99	PASS
		2437	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-65.67	≤-21.31	PASS
			1000~26500	-1.31	-56.21	≤-21.31	PASS
		2462	Reference	-2.36	-2.36	---	PASS
			30~1000	-2.36	-66.17	≤-22.36	PASS
			1000~26500	-2.36	-54.28	≤-22.36	PASS
11G	Ant1	2412	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-65.7	≤-25.24	PASS
			1000~26500	-5.24	-55.36	≤-25.24	PASS
		2437	Reference	-3.53	-3.53	---	PASS
			30~1000	-3.53	-45.59	≤-23.53	PASS
			1000~26500	-3.53	-54.75	≤-23.53	PASS
		2462	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-65.15	≤-23.19	PASS
			1000~26500	-3.19	-55.6	≤-23.19	PASS
11N20SISO	Ant1	2412	Reference	-5.10	-5.10	---	PASS
			30~1000	-5.10	-65.62	≤-25.1	PASS
			1000~26500	-5.10	-55.2	≤-25.1	PASS
		2437	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-65.63	≤-24.65	PASS
			1000~26500	-4.65	-55.06	≤-24.65	PASS
		2462	Reference	-5.87	-5.87	---	PASS
			30~1000	-5.87	-64.17	≤-25.87	PASS
			1000~26500	-5.87	-55.24	≤-25.87	PASS
11N40SISO	Ant1	2422	Reference	-7.52	-7.52	---	PASS
			30~1000	-7.52	-65.81	≤-27.52	PASS
			1000~26500	-7.52	-54.71	≤-27.52	PASS
		2437	Reference	-8.88	-8.88	---	PASS
			30~1000	-8.88	-65.07	≤-28.88	PASS
			1000~26500	-8.88	-55.08	≤-28.88	PASS
		2452	Reference	-6.49	-6.49	---	PASS
			30~1000	-6.49	-65.81	≤-26.49	PASS
			1000~26500	-6.49	-55.69	≤-26.49	PASS

Test Graphs

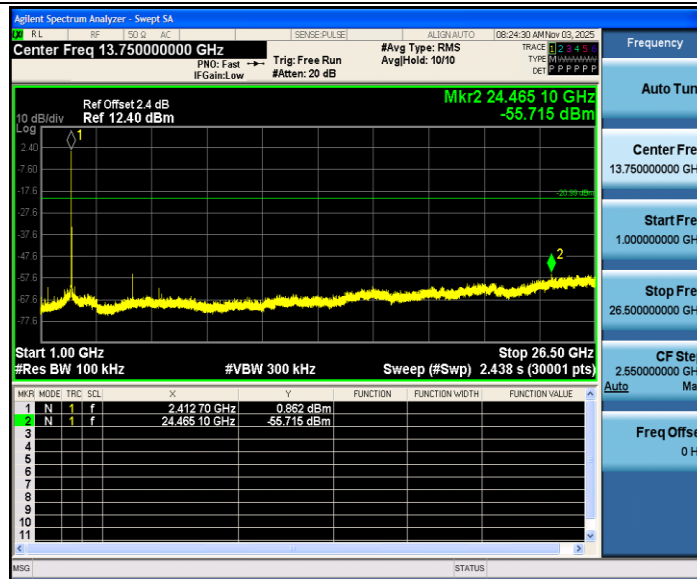
11B_Ant1_2412_0~Reference



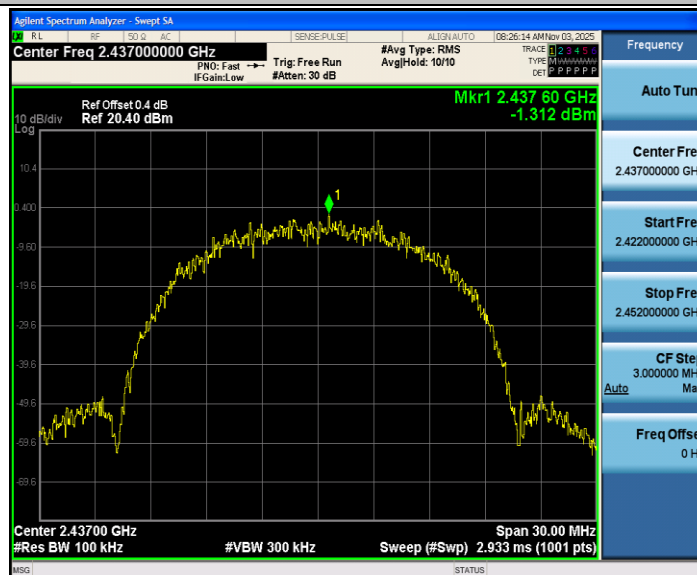
11B_Ant1_2412_30~1000



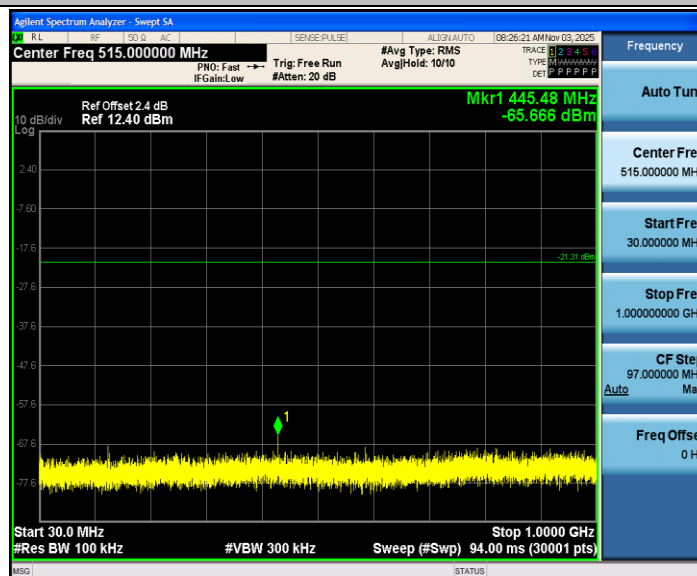
11B_Ant1_2412_1000~26500



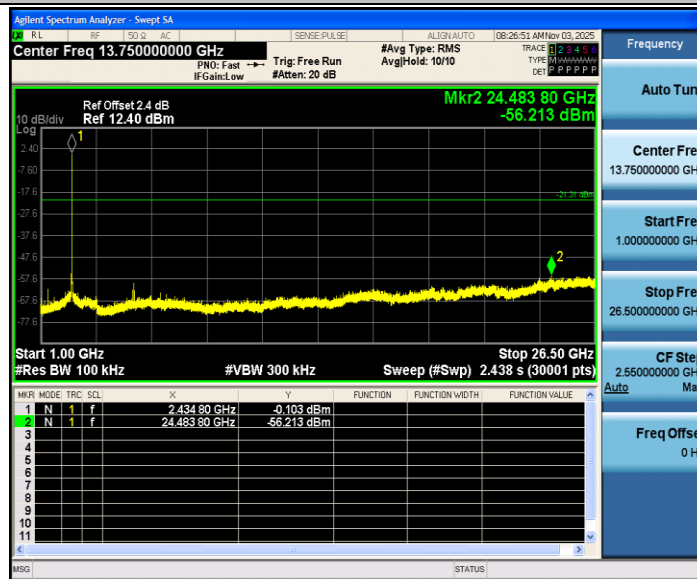
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



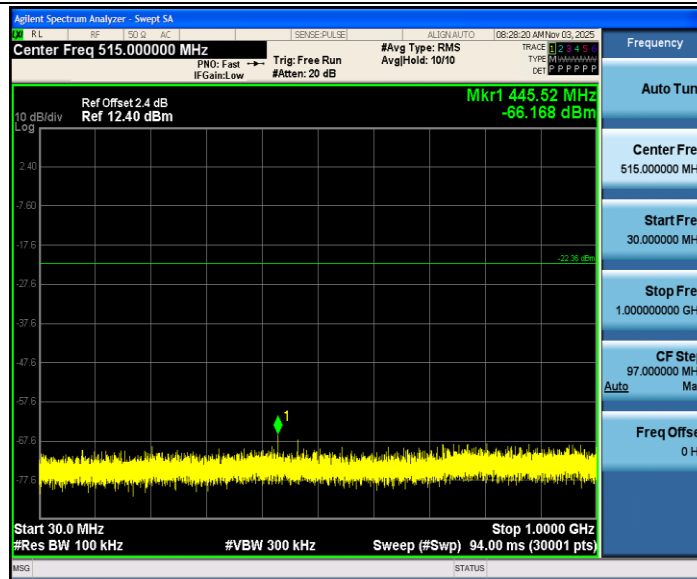
11B_Ant1_2437_1000~26500



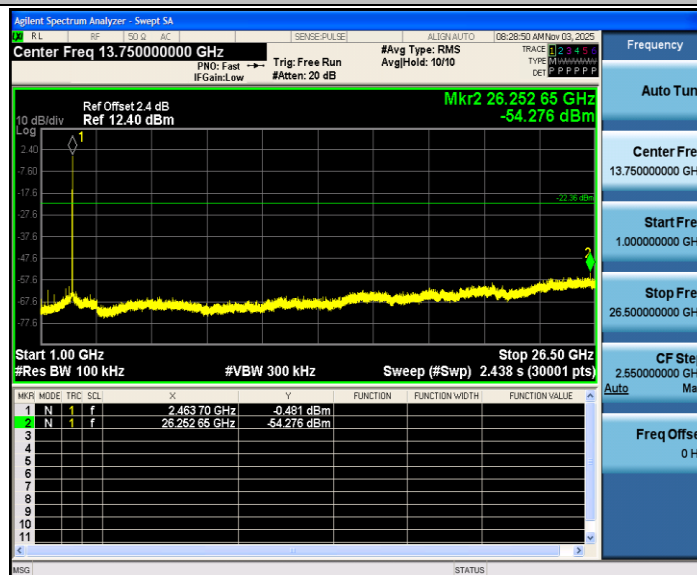
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

