

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A9JD-Q3

Company : Shenzhen Jingyun Wulian Technology CO.,Ltd

EUT : Smart glasses

Model Number : Q3

Report No. : CTA25103001502

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

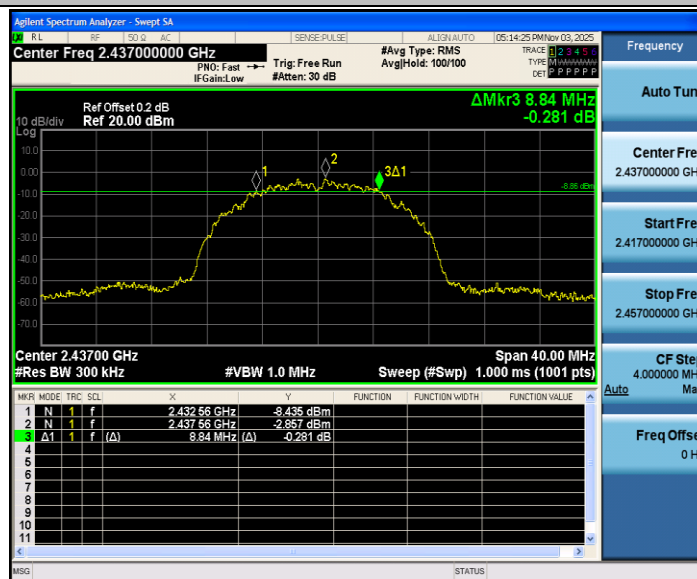
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.800	2407.560	2416.360	0.5	PASS
		2437	8.840	2432.560	2441.400	0.5	PASS
		2462	9.440	2457.000	2466.440	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.440	2453.840	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.320	2428.360	2445.680	0.5	PASS
		2462	17.160	2453.440	2470.600	0.5	PASS
11N40SISO	Ant1	2422	33.520	2405.440	2438.960	0.5	PASS
		2437	33.920	2420.120	2454.040	0.5	PASS
		2452	34.160	2435.040	2469.200	0.5	PASS

Test Graphs

11B_Ant1_2412



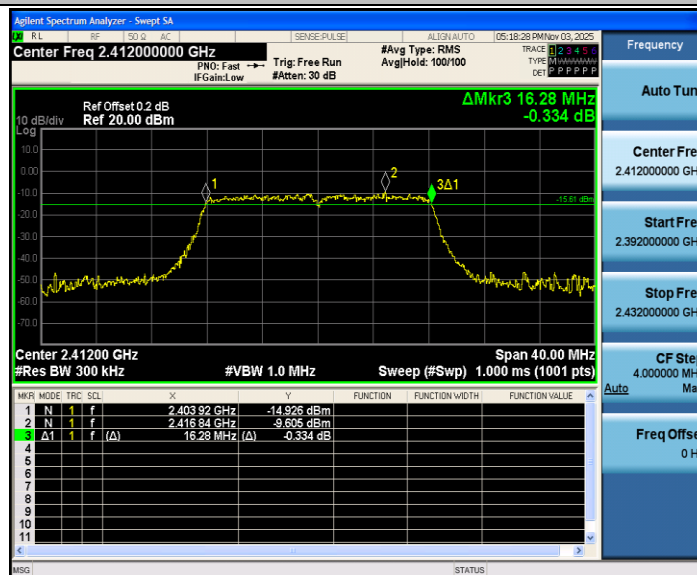
11B_Ant1_2437



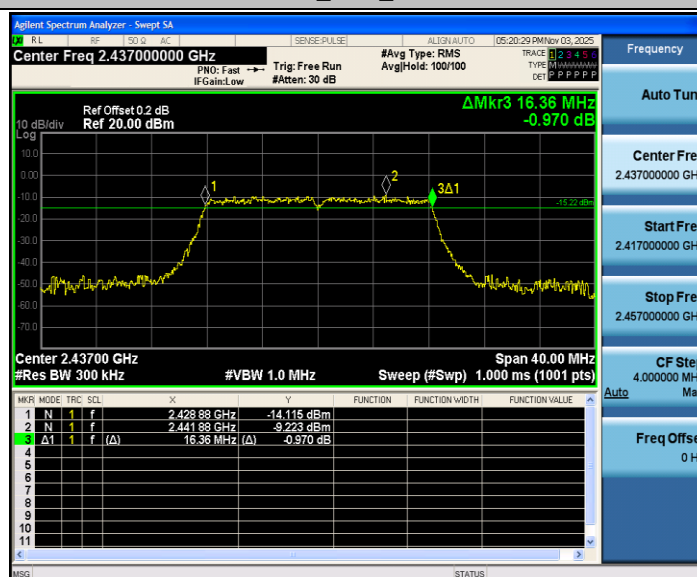
11B_Ant1_2462



11G_Ant1_2412



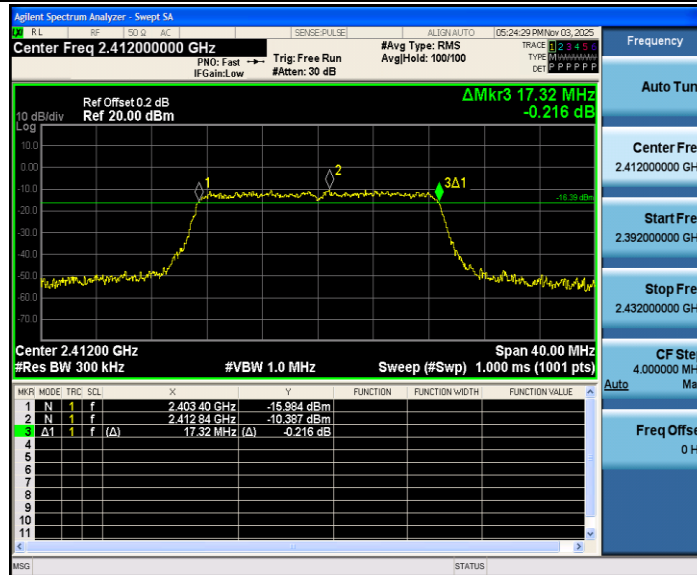
11G_Ant1_2437



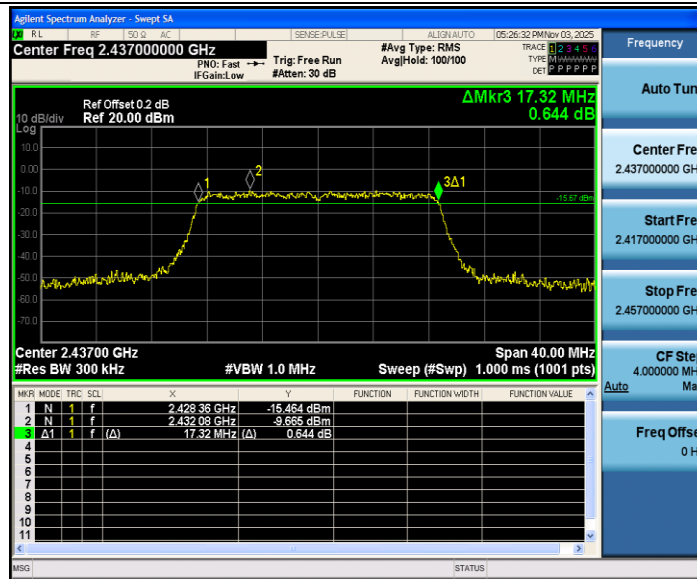
11G_Ant1_2462



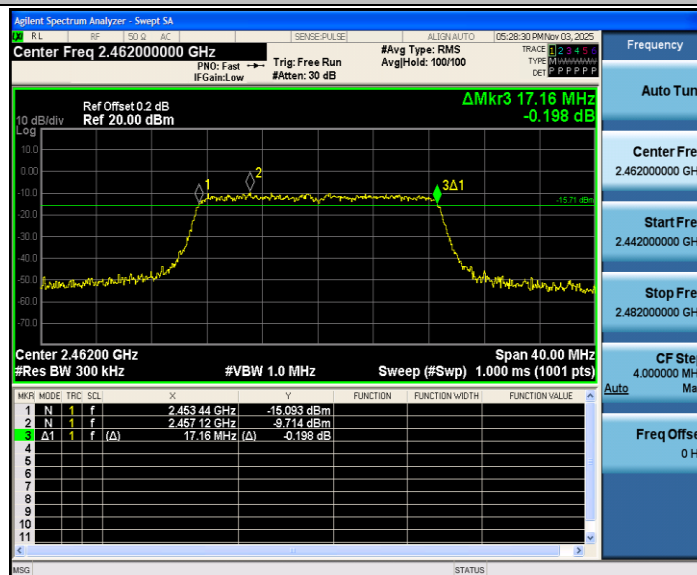
11N20SISO_Ant1_2412



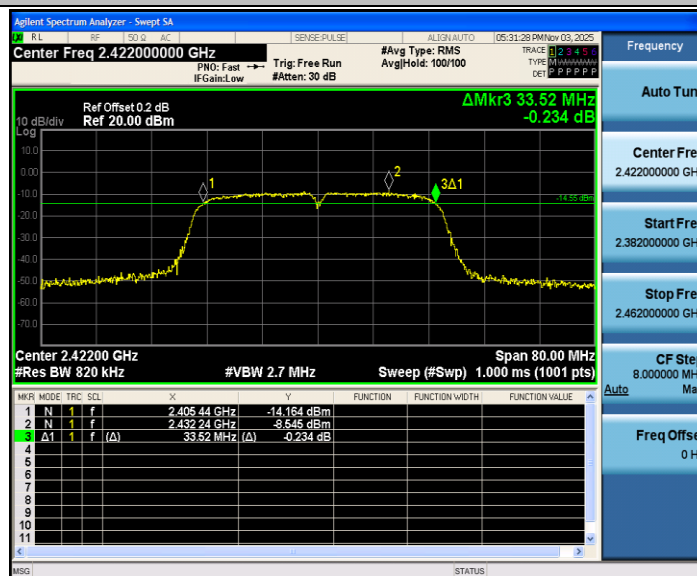
11N20SISO_Ant1_2437



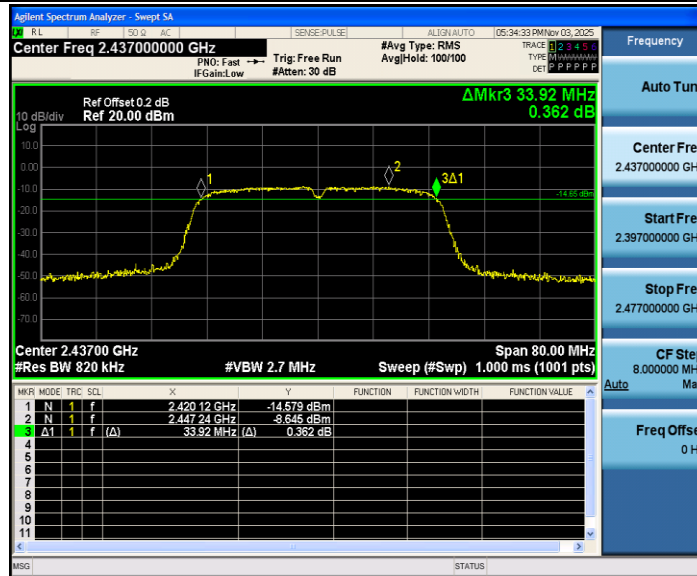
11N20SISO_Ant1_2462



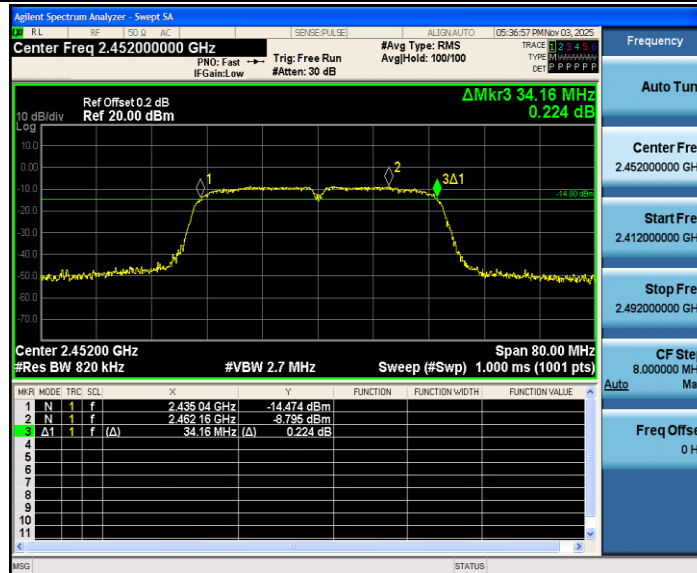
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



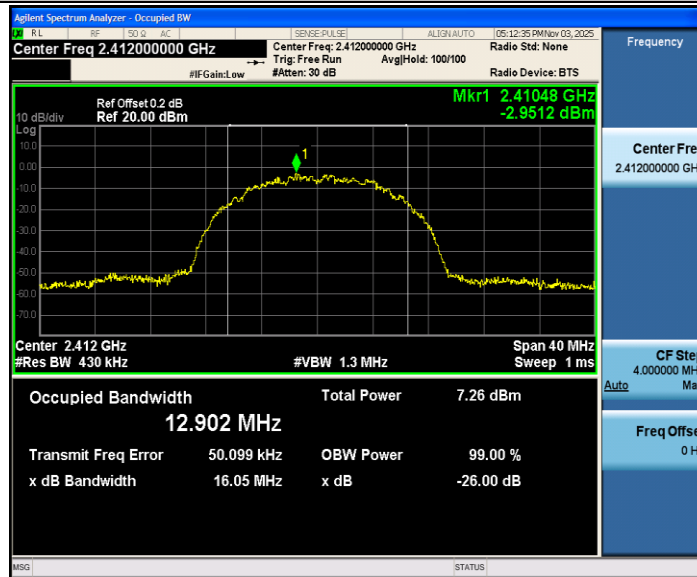
Appendix B: Occupied Channel Bandwidth

Test Result

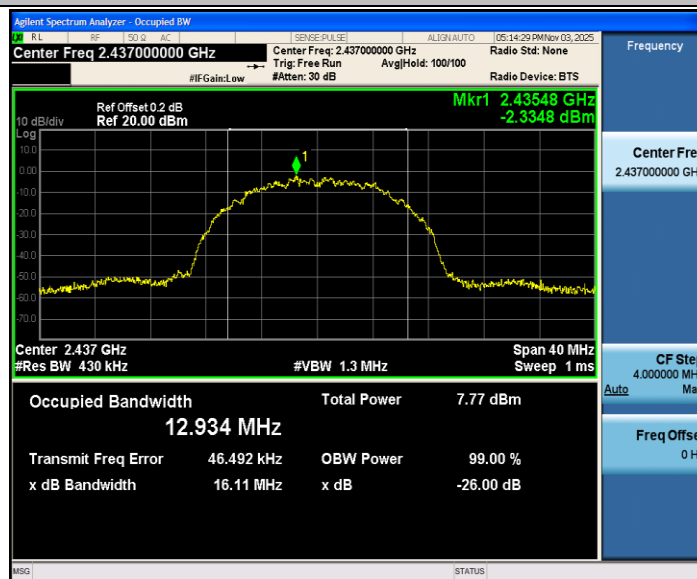
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.902	2405.5991	2418.5011	---	---
		2437	12.934	2430.5795	2443.5135	---	---
		2462	12.950	2455.5308	2468.4808	---	---
11G	Ant1	2412	16.553	2403.7616	2420.3146	---	---
		2437	16.581	2428.7401	2445.3211	---	---
		2462	16.580	2453.7537	2470.3337	---	---
11N20SISO	Ant1	2412	17.457	2403.3250	2420.7820	---	---
		2437	17.450	2428.3109	2445.7609	---	---
		2462	17.436	2453.3107	2470.7467	---	---
11N40SISO	Ant1	2422	34.827	2404.7662	2439.5932	---	---
		2437	34.820	2419.7004	2454.5204	---	---
		2452	34.891	2434.6392	2469.5302	---	---

Test Graphs

11B_Ant1_2412



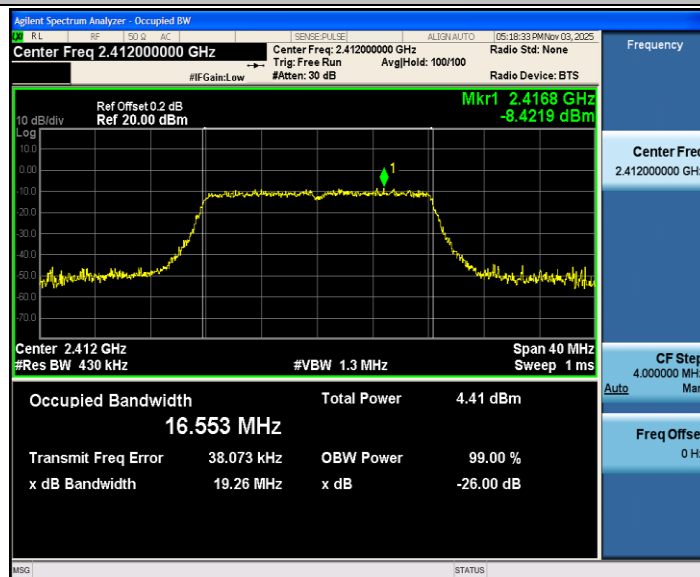
11B_Ant1_2437



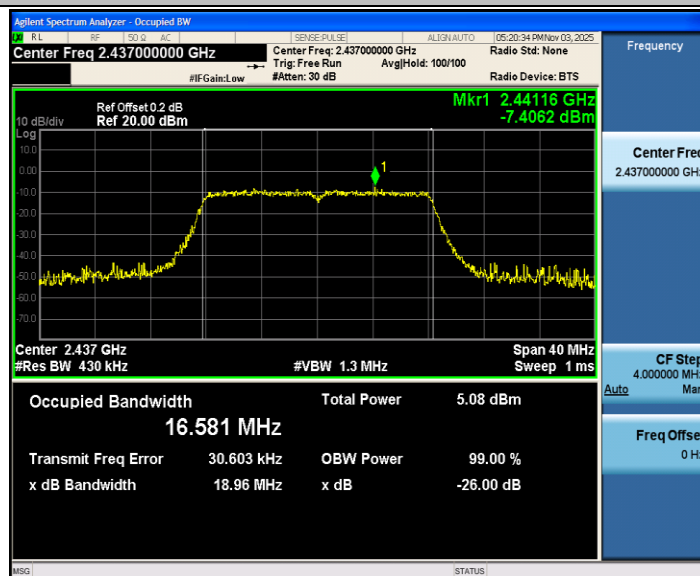
11B_Ant1_2462



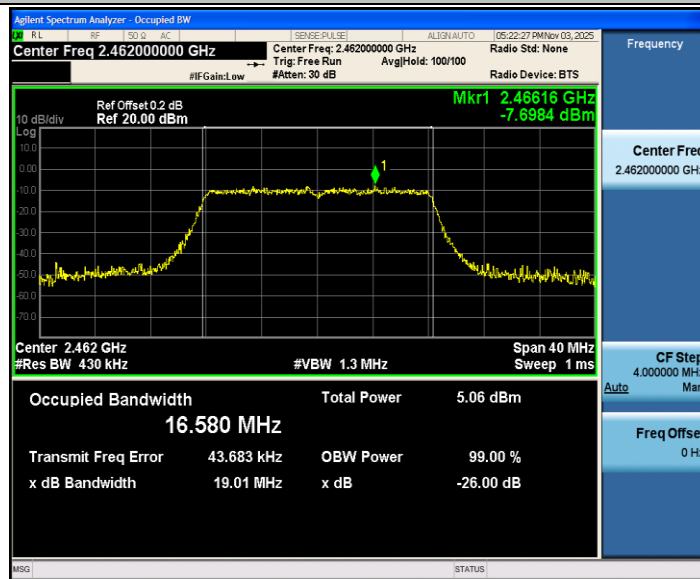
11G_Ant1_2412



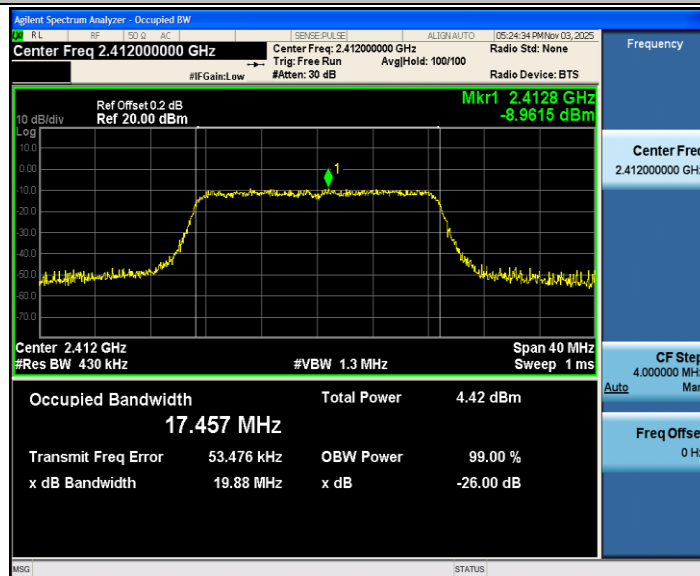
11G_Ant1_2437



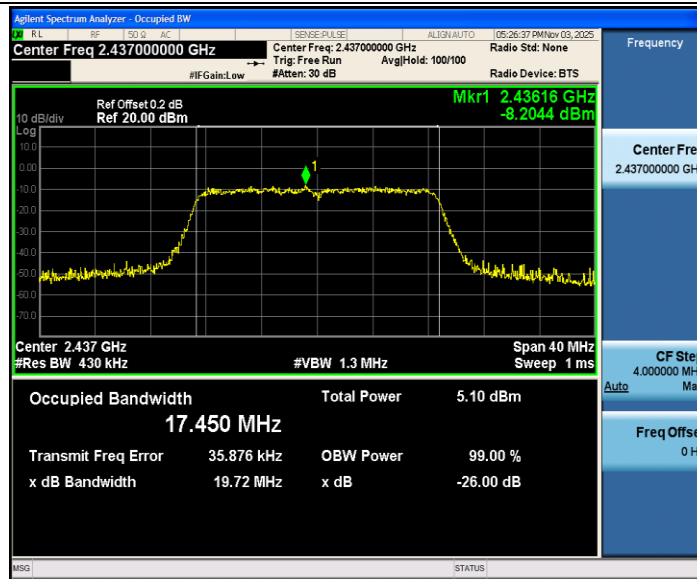
11G_Ant1_2462



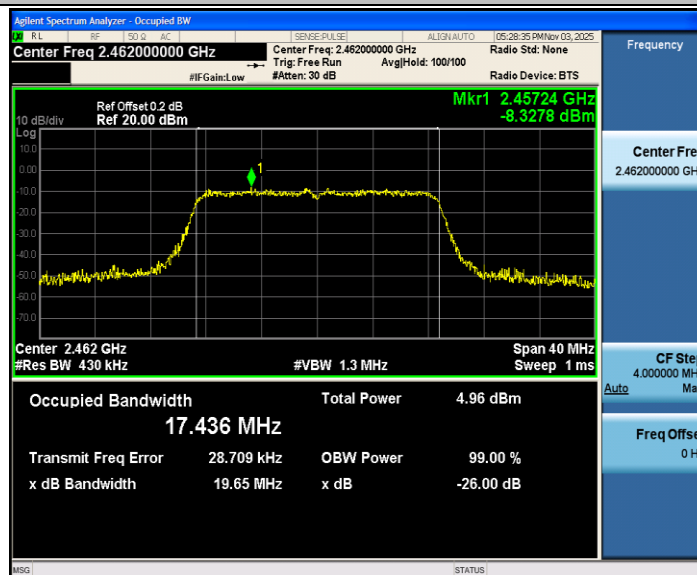
11N20SISO_Ant1_2412



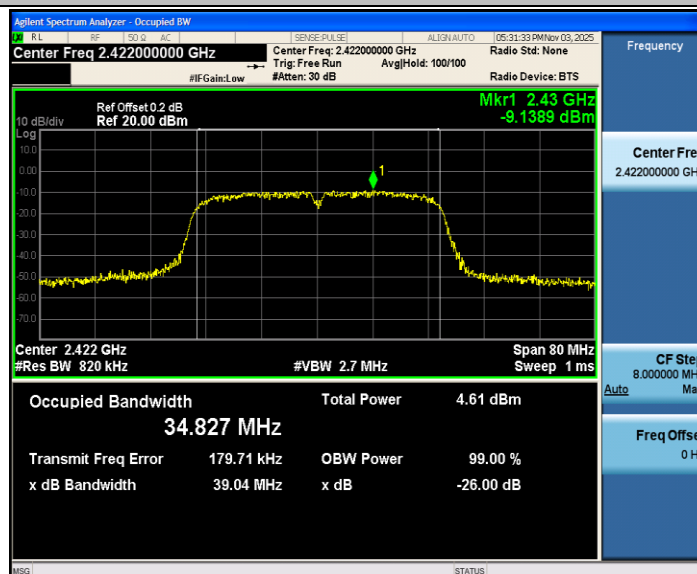
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	6.67	≤30.00	PASS
		2437	7.24	≤30.00	PASS
		2462	7.40	≤30.00	PASS
11G	Ant1	2412	5.32	≤30.00	PASS
		2437	5.96	≤30.00	PASS
		2462	5.83	≤30.00	PASS
11N20SISO	Ant1	2412	5.66	≤30.00	PASS
		2437	6.31	≤30.00	PASS
		2462	6.07	≤30.00	PASS
11N40SISO	Ant1	2422	4.81	≤30.00	PASS
		2437	5.18	≤30.00	PASS
		2452	5.16	≤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	-22.08	≤8.00	PASS
		2437	-21.54	≤8.00	PASS
		2462	-21.46	≤8.00	PASS
11G	Ant1	2412	-29.13	≤8.00	PASS
		2437	-28.55	≤8.00	PASS
		2462	-28.54	≤8.00	PASS
11N20SISO	Ant1	2412	-28.74	≤8.00	PASS
		2437	-28.14	≤8.00	PASS
		2462	-28.27	≤8.00	PASS
11N40SISO	Ant1	2422	-30.16	≤8.00	PASS
		2437	-30.47	≤8.00	PASS
		2452	-29.45	≤8.00	PASS

Test Graphs

11B_Ant1_2412



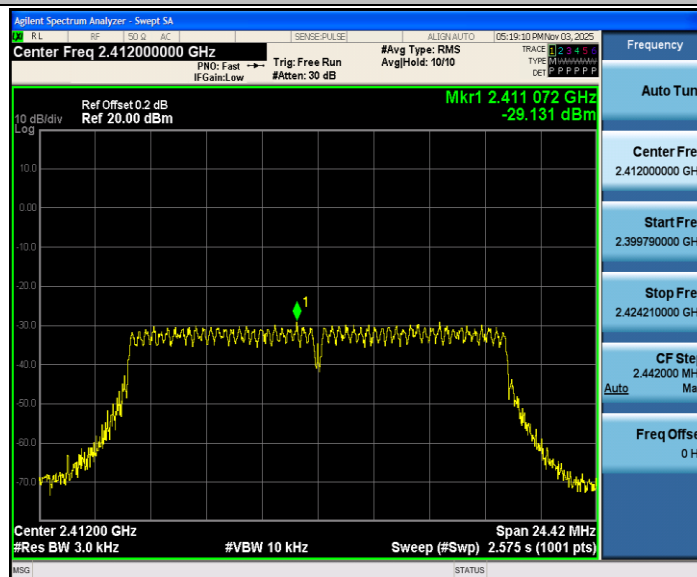
11B_Ant1_2437



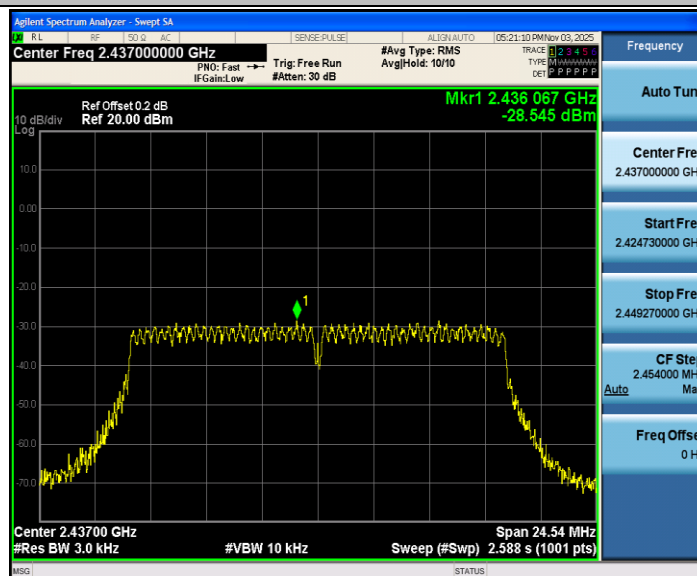
11B_Ant1_2462



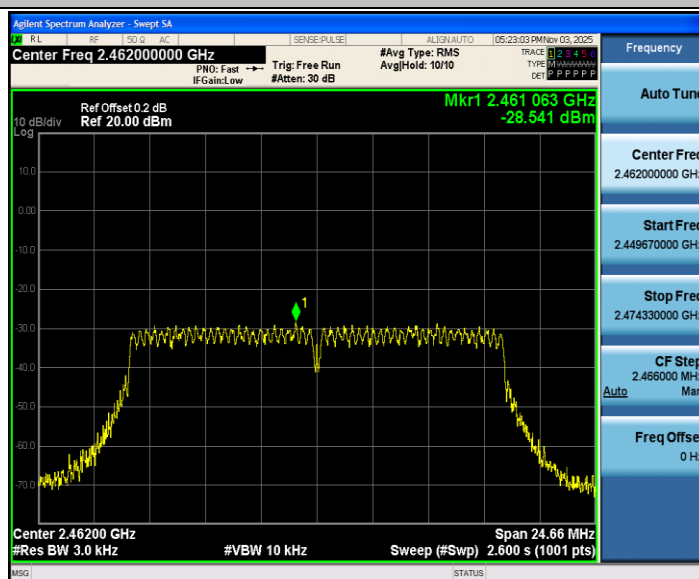
11G_Ant1_2412



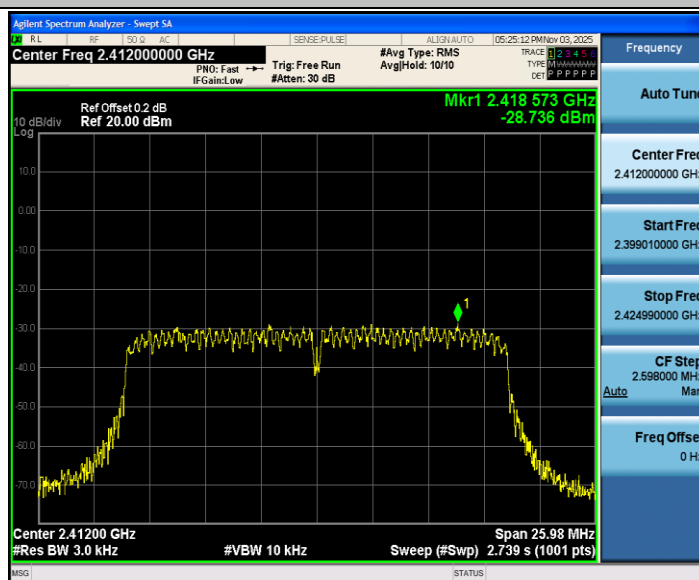
11G_Ant1_2437



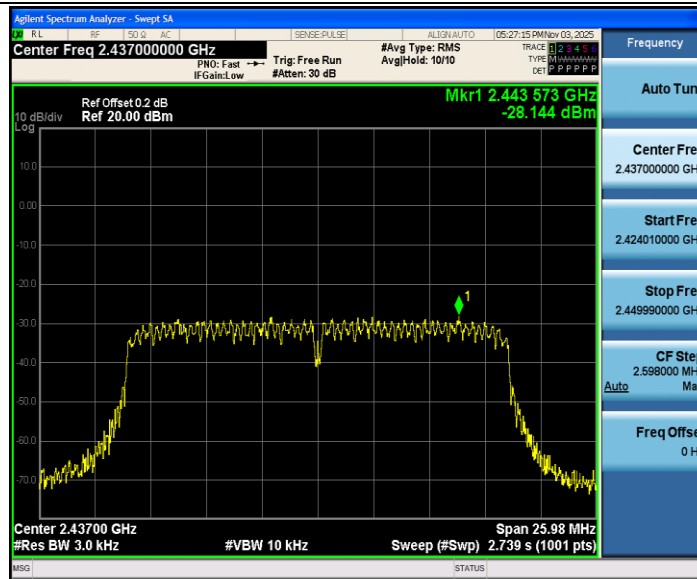
11G_Ant1_2462



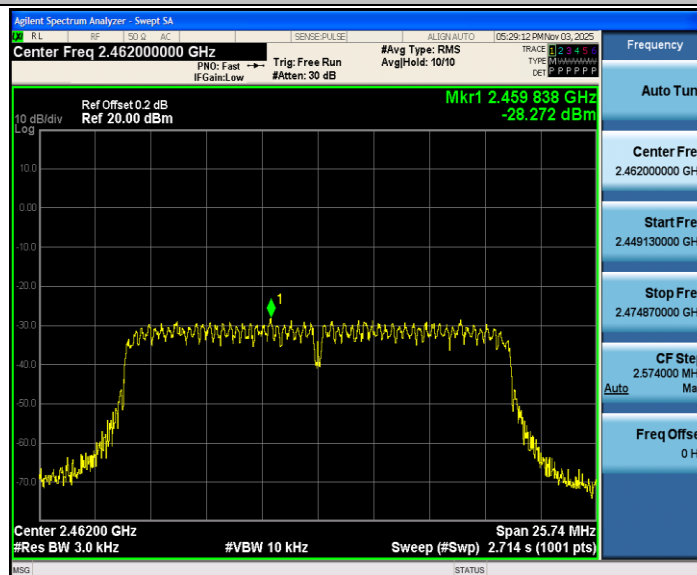
11N20SISO_Ant1_2412



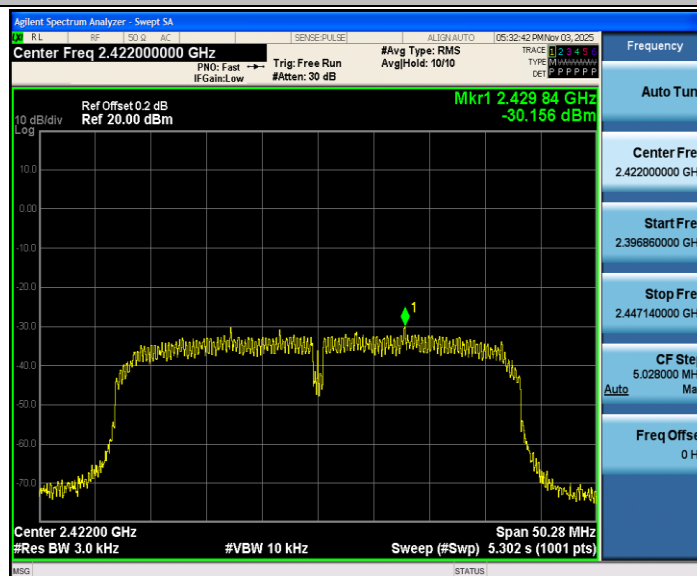
11N20SISO_Ant1_2437



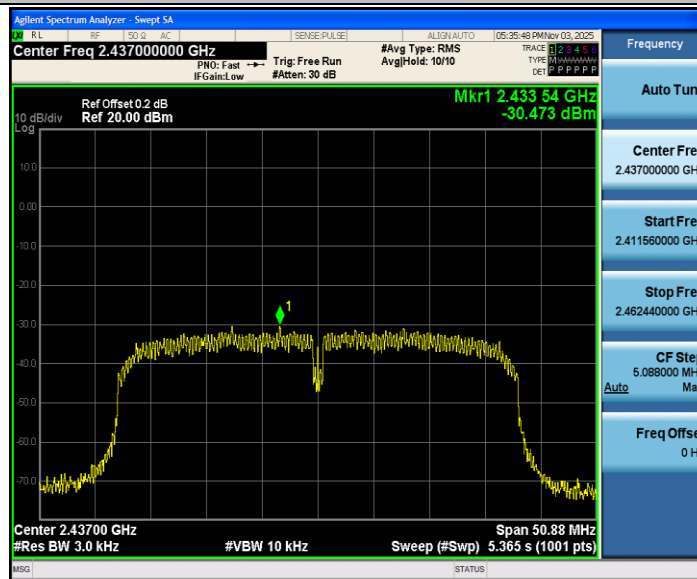
11N20SISO_Ant1_2462



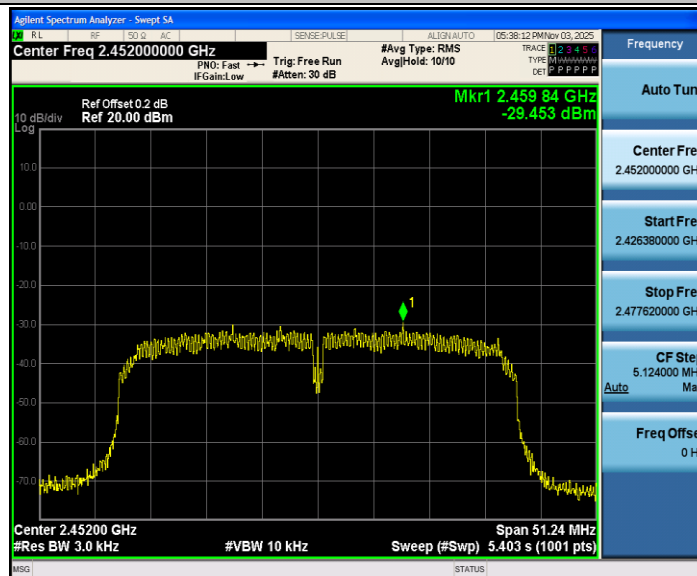
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



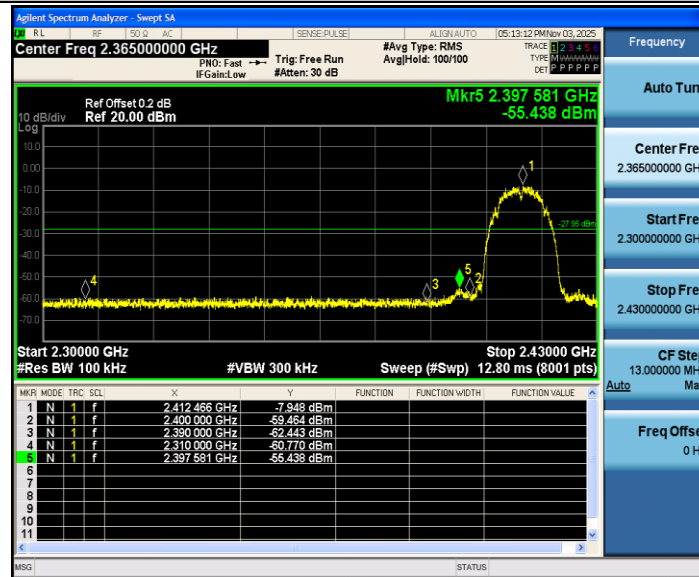
Appendix E: Band edge measurements

Test Result

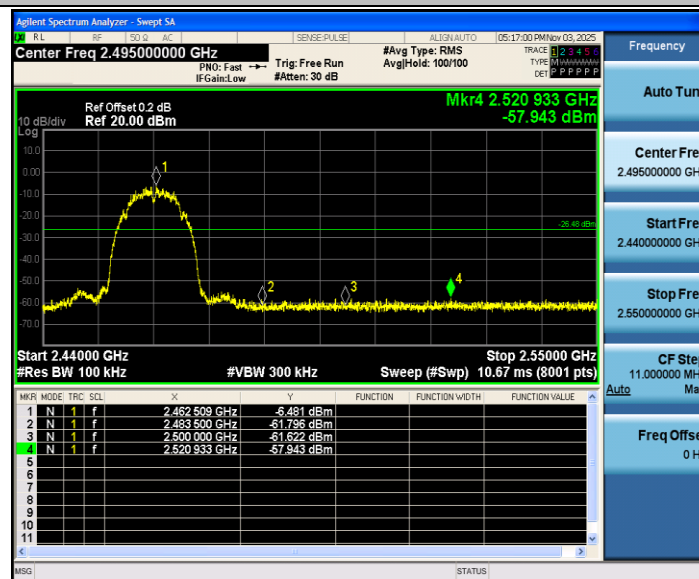
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-7.95	-55.44	≤-27.95	PASS
		High	2462	-6.48	-57.94	≤-26.48	PASS
11G	Ant1	Low	2412	-14.84	-53.02	≤-34.84	PASS
		High	2462	-14.55	-55.69	≤-34.55	PASS
11N20SISO	Ant1	Low	2412	-15.01	-51.62	≤-35.01	PASS
		High	2462	-14.30	-57.17	≤-34.3	PASS
11N40SISO	Ant1	Low	2422	-17.98	-53.72	≤-37.98	PASS
		High	2452	-18.15	-56.7	≤-38.15	PASS

Test Graphs

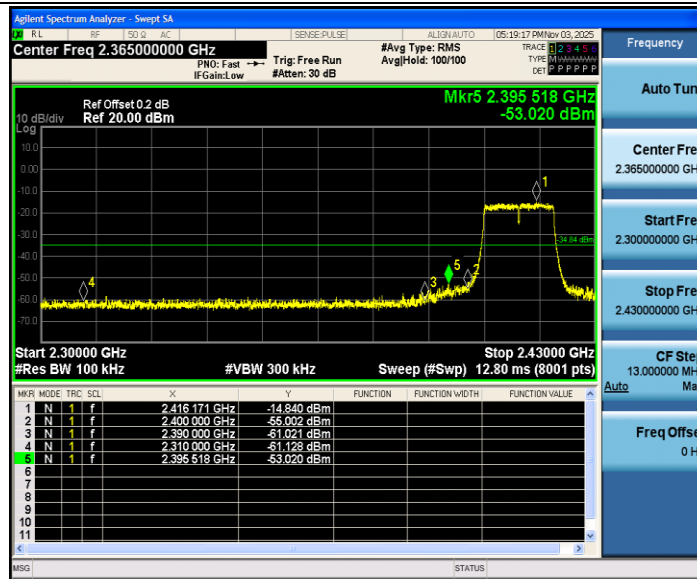
11B_Ant1_Low_2412



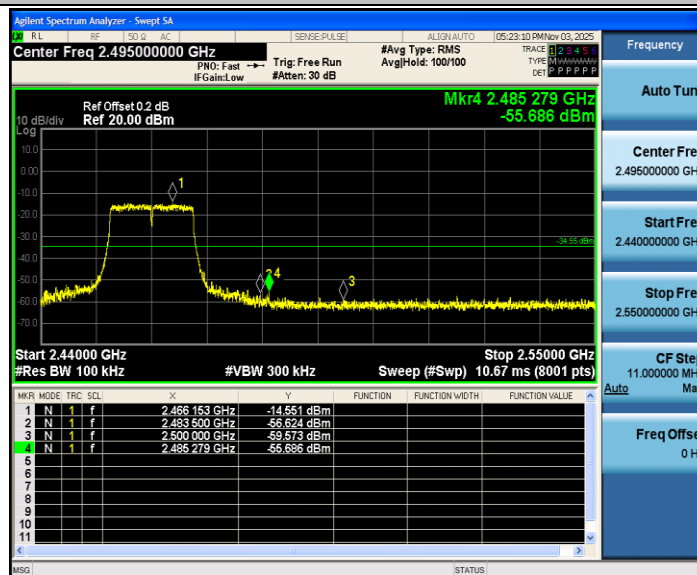
11B_Ant1_High_2462



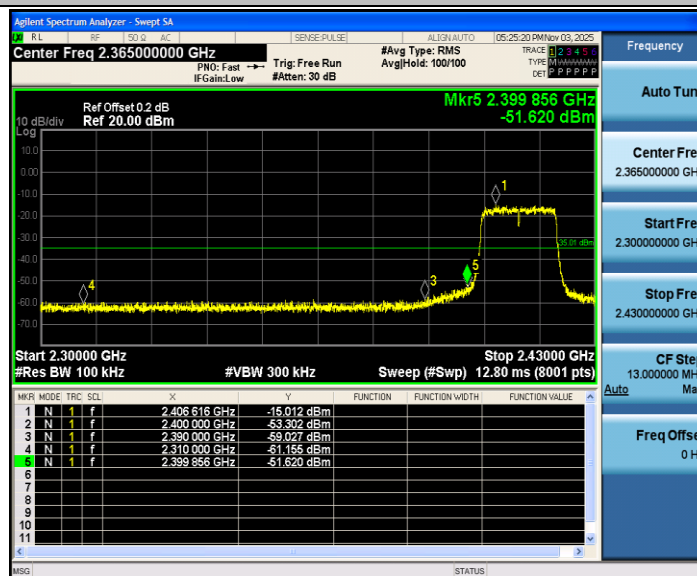
11G_Ant1_Low_2412



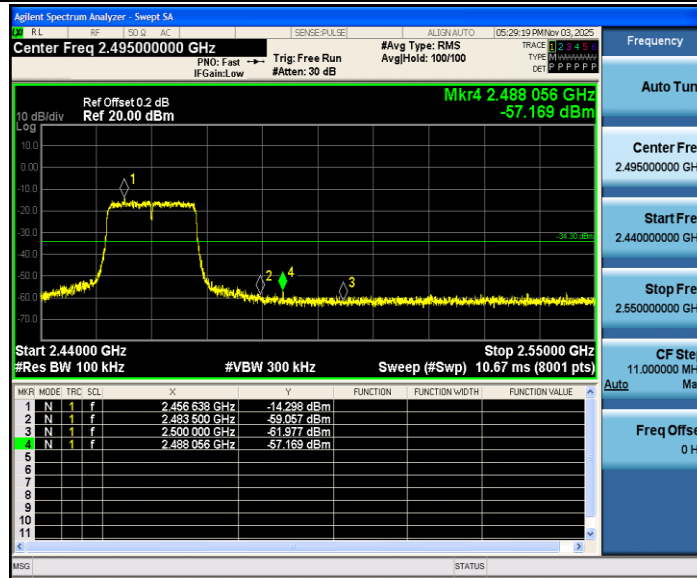
11G_Ant1_High_2462



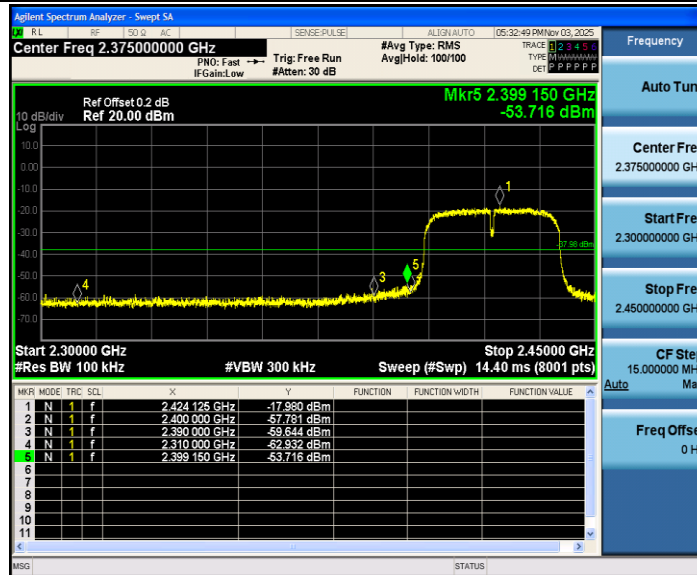
11N20SISO_Ant1_Low_2412



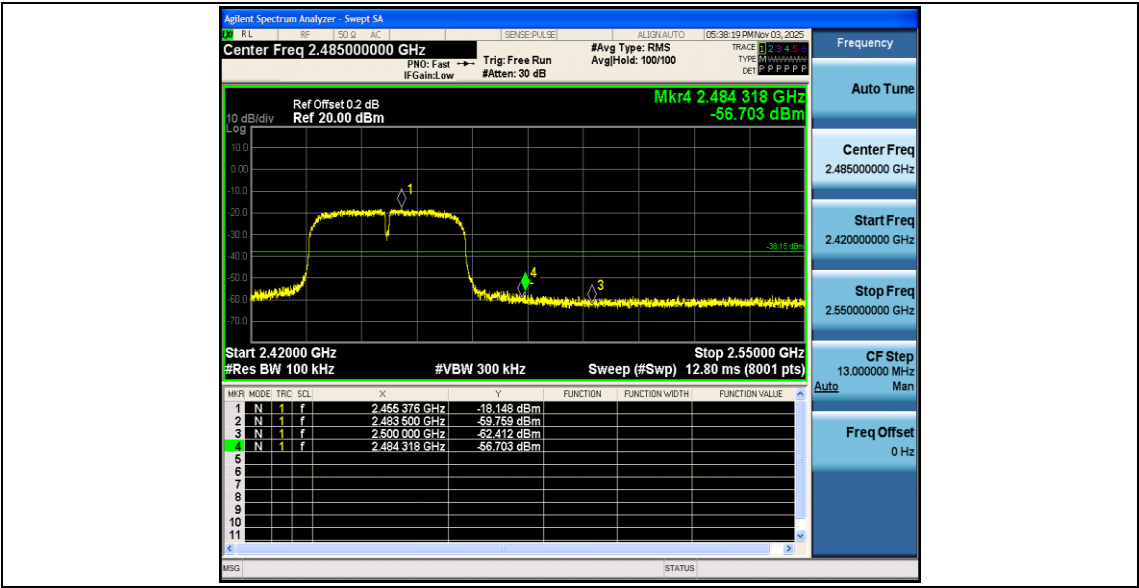
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



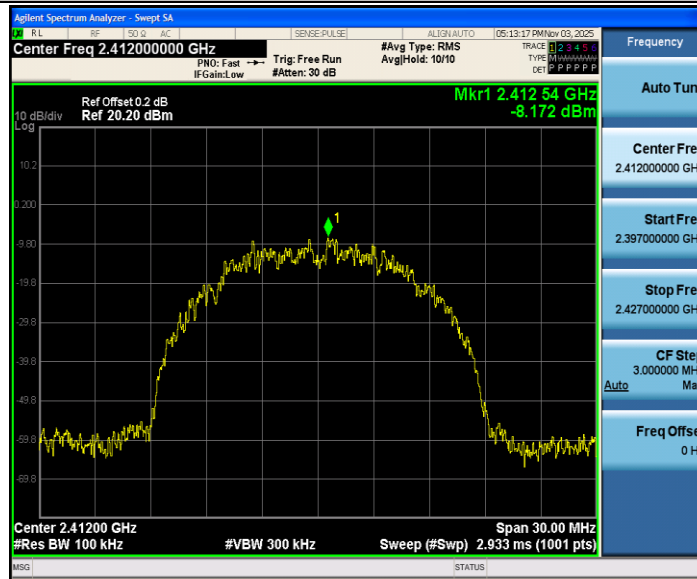
Appendix F: Conducted Spurious Emission

Test Result

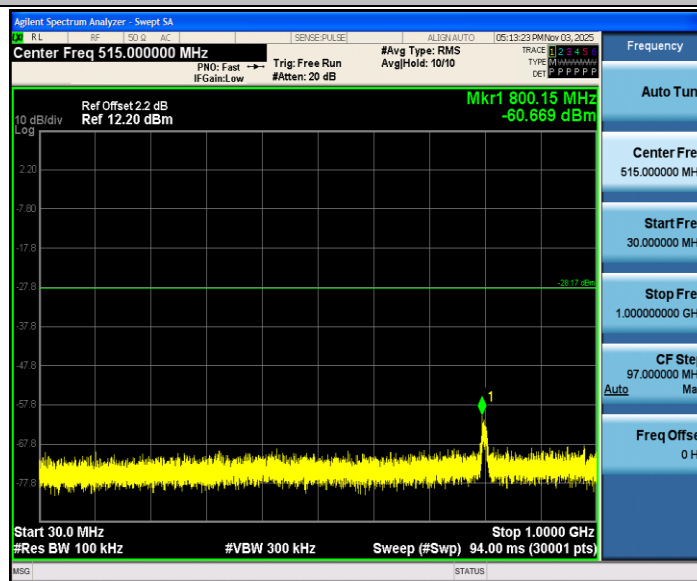
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-8.17	-8.17	---	PASS
			30~1000	-8.17	-60.67	≤-28.17	PASS
			1000~26500	-8.17	-45.86	≤-28.17	PASS
		2437	Reference	-7.74	-7.74	---	PASS
			30~1000	-7.74	-60.35	≤-27.74	PASS
			1000~26500	-7.74	-46.33	≤-27.74	PASS
		2462	Reference	-7.68	-7.68	---	PASS
			30~1000	-7.68	-61.46	≤-27.68	PASS
			1000~26500	-7.68	-46.57	≤-27.68	PASS
11G	Ant1	2412	Reference	-14.86	-14.86	---	PASS
			30~1000	-14.86	-64.29	≤-34.86	PASS
			1000~26500	-14.86	-45.75	≤-34.86	PASS
		2437	Reference	-15.26	-15.26	---	PASS
			30~1000	-15.26	-64.12	≤-35.26	PASS
			1000~26500	-15.26	-46.12	≤-35.26	PASS
		2462	Reference	-15.27	-15.27	---	PASS
			30~1000	-15.27	-63.44	≤-35.27	PASS
			1000~26500	-15.27	-46.62	≤-35.27	PASS
11N20SISO	Ant1	2412	Reference	-15.70	-15.70	---	PASS
			30~1000	-15.70	-64.05	≤-35.7	PASS
			1000~26500	-15.70	-45.74	≤-35.7	PASS
		2437	Reference	-15.09	-15.09	---	PASS
			30~1000	-15.09	-63.86	≤-35.09	PASS
			1000~26500	-15.09	-46.5	≤-35.09	PASS
		2462	Reference	-15.43	-15.43	---	PASS
			30~1000	-15.43	-64.18	≤-35.43	PASS
			1000~26500	-15.43	-46.57	≤-35.43	PASS
11N40SISO	Ant1	2422	Reference	-18.73	-18.73	---	PASS
			30~1000	-18.73	-66.3	≤-38.73	PASS
			1000~26500	-18.73	-45.88	≤-38.73	PASS
		2437	Reference	-18.40	-18.40	---	PASS
			30~1000	-18.40	-66.22	≤-38.4	PASS
			1000~26500	-18.40	-46.13	≤-38.4	PASS
		2452	Reference	-18.75	-18.75	---	PASS
			30~1000	-18.75	-66.49	≤-38.75	PASS
			1000~26500	-18.75	-46.47	≤-38.75	PASS

Test Graphs

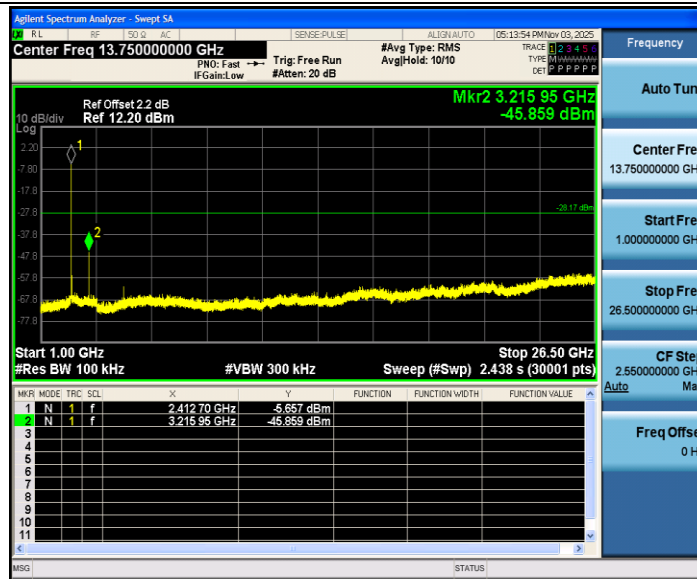
11B_Ant1_2412_0~Reference



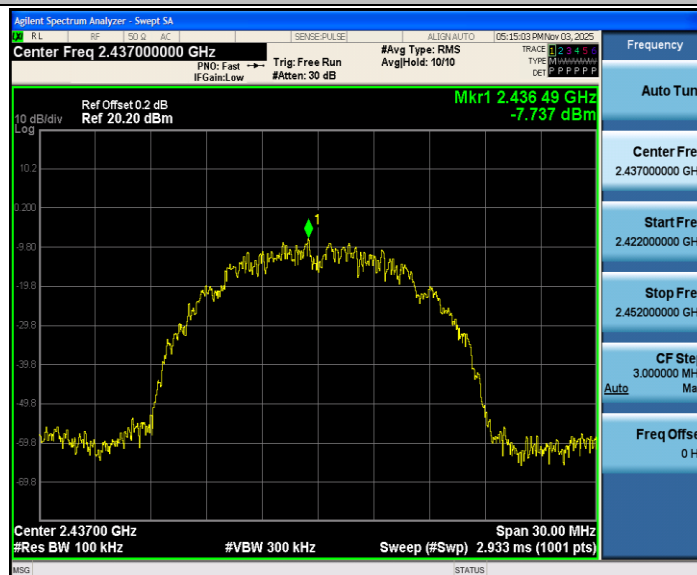
11B_Ant1_2412_30~1000



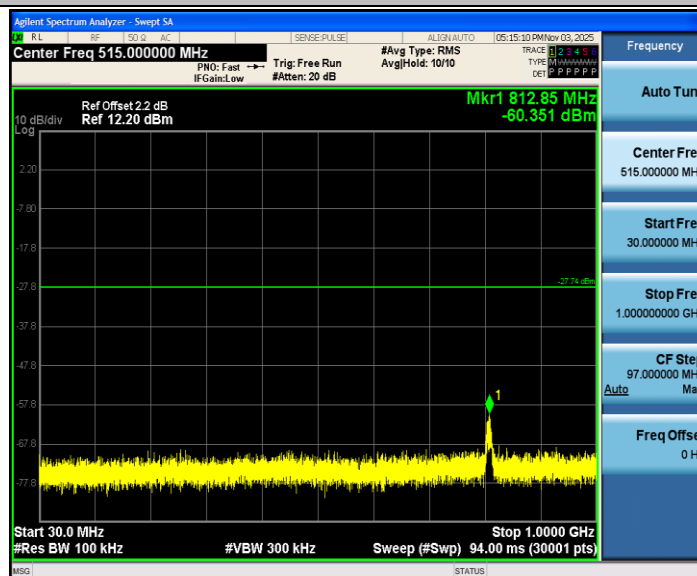
11B_Ant1_2412_1000~26500



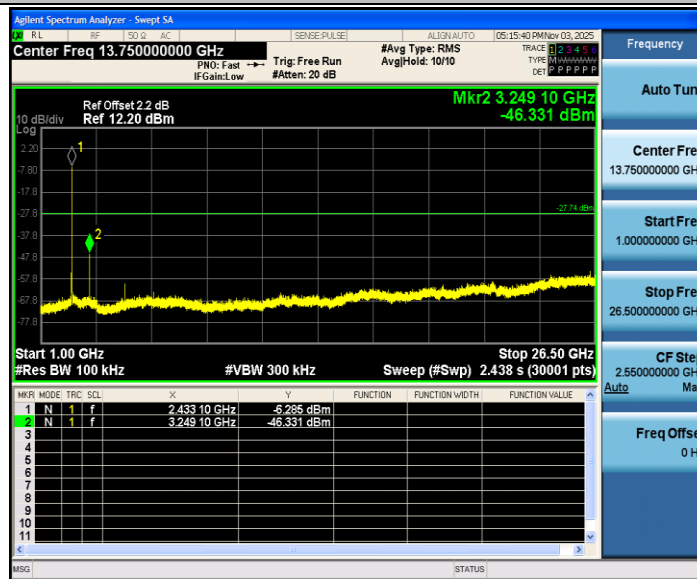
11B_Ant1_2437_0~Reference



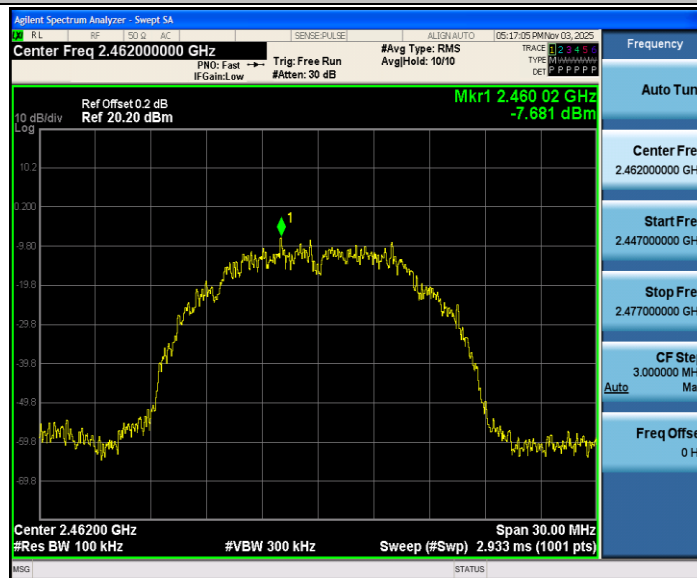
11B_Ant1_2437_30~1000



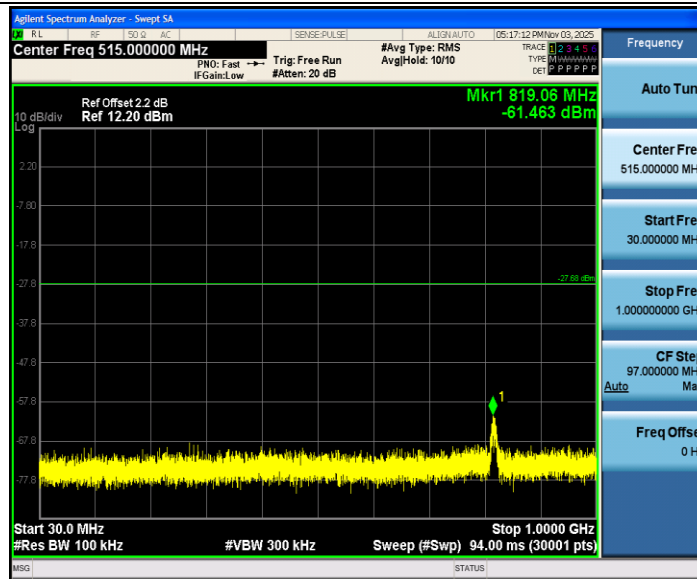
11B_Ant1_2437_1000~26500



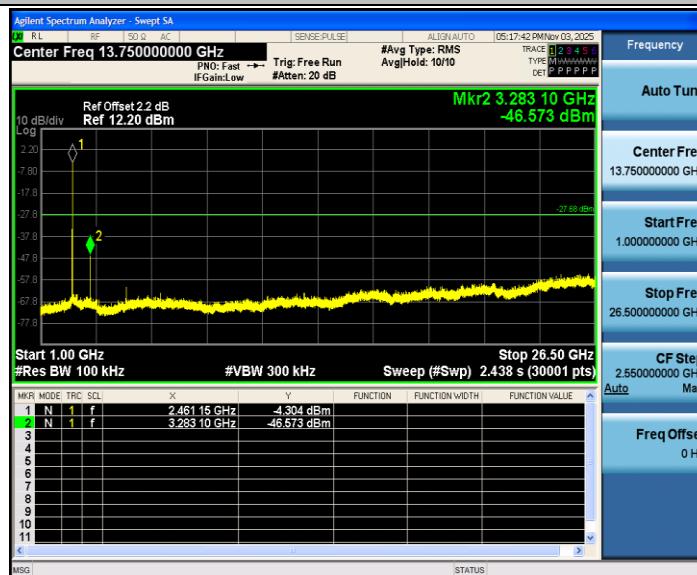
11B_Ant1_2462_0~Reference



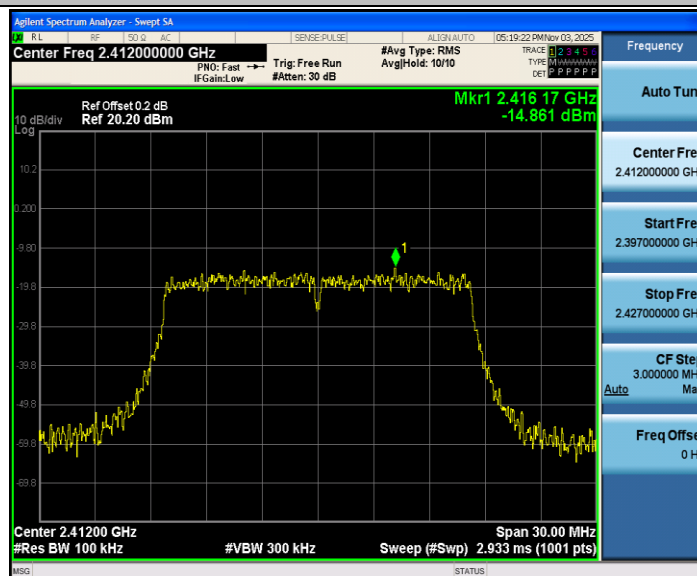
11B_Ant1_2462_30~1000



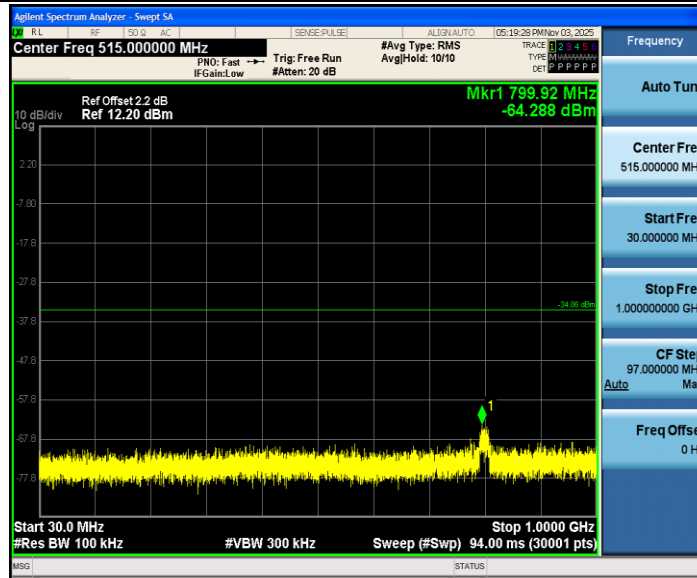
11B_Ant1_2462_1000~26500



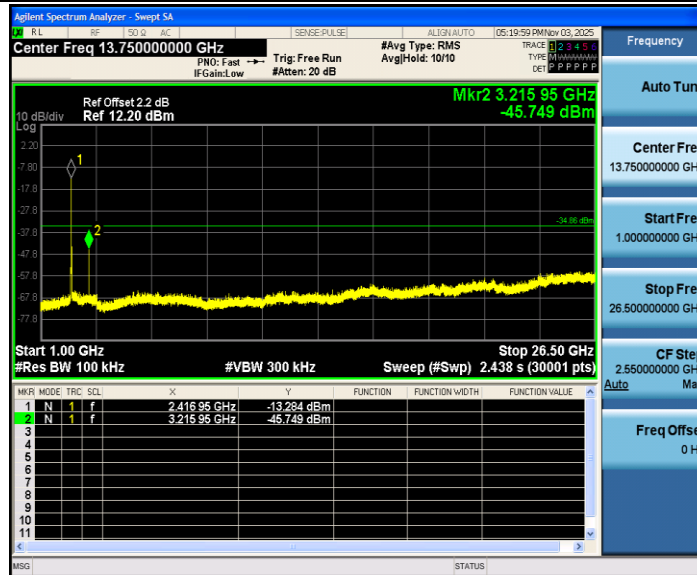
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



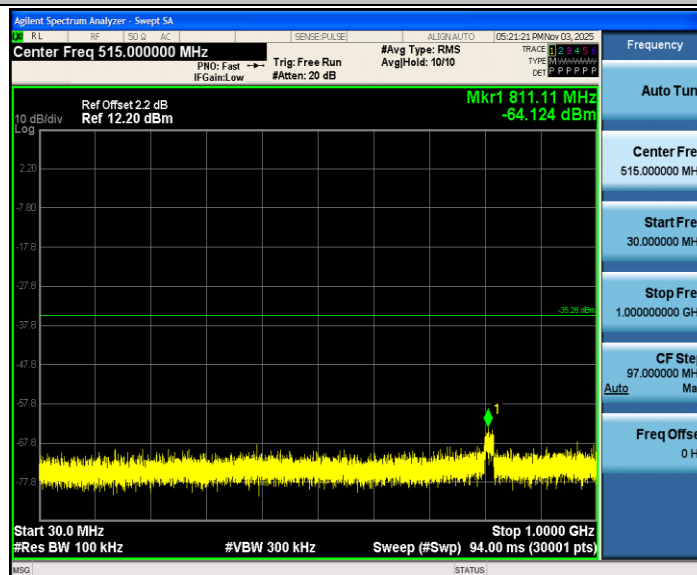
11G_Ant1_2412_1000~26500



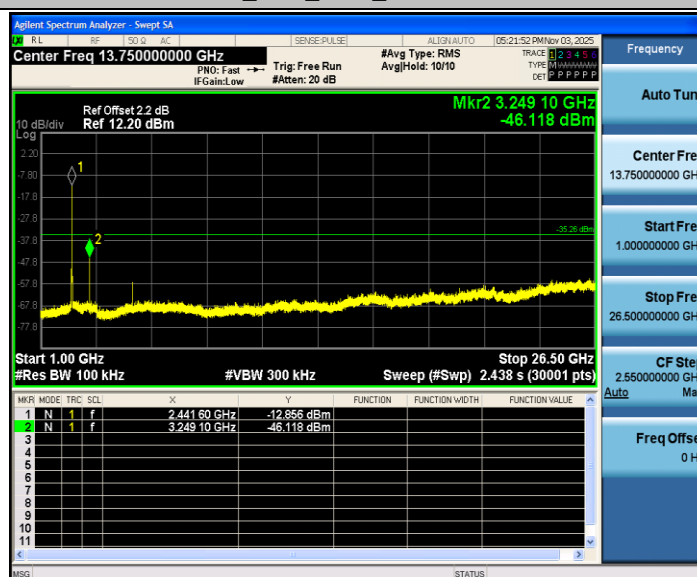
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



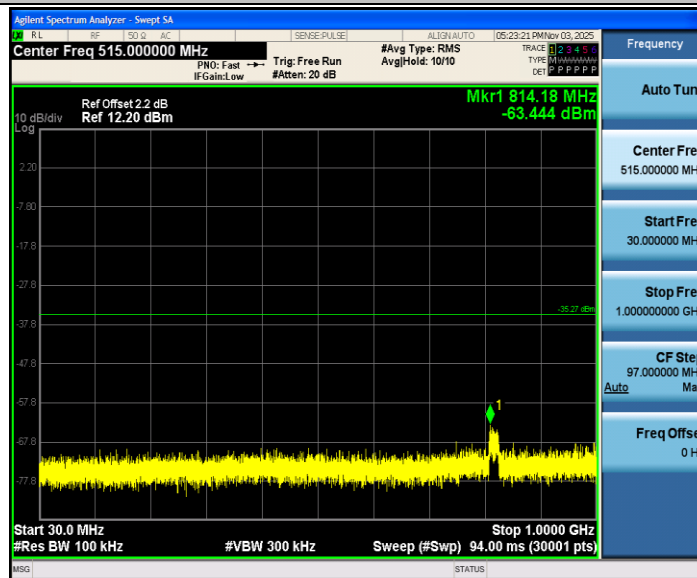
11G_Ant1_2437_1000~26500



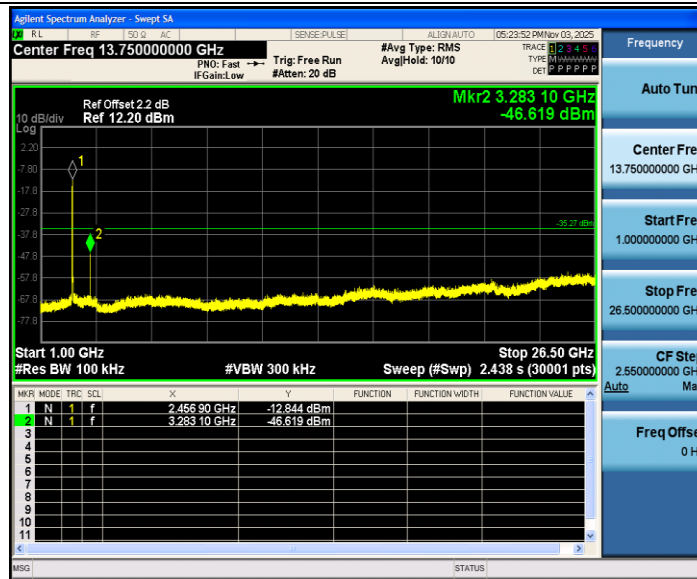
11G_Ant1_2462_0~Reference



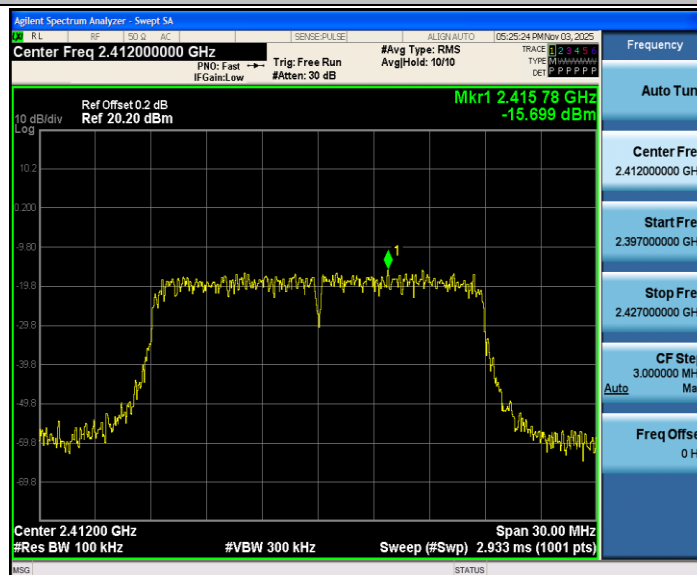
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

