

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BN53-AIMB-G5

Company : Shenzhen Huaxinchen Technology Co., Ltd

EUT : AI Smart Glasses With Wi Fi Camera

Model Number : AiMB-G5

Report No. : CTA25120400402

Reviewed By : Eric Wang

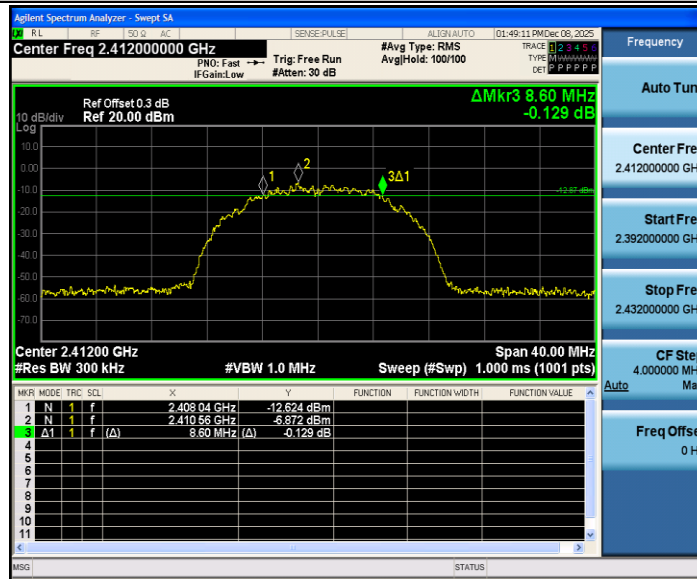
Appendix A: DTS Bandwidth

Test Result

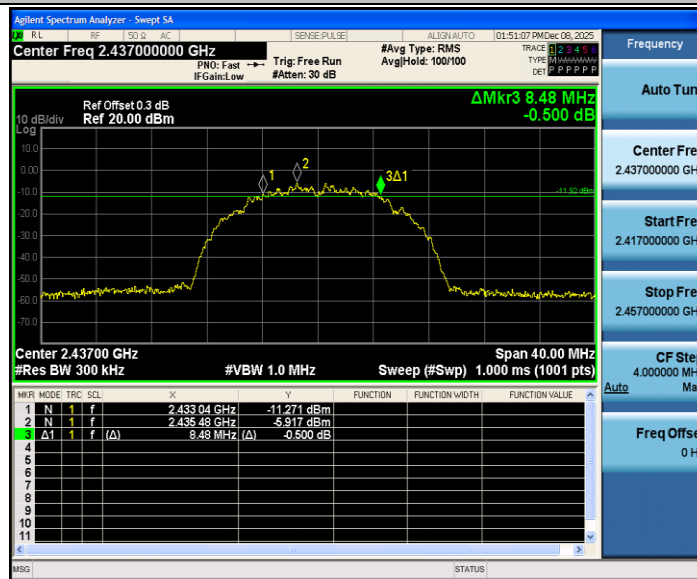
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.600	2408.040	2416.640	0.5	PASS
		2437	8.480	2433.040	2441.520	0.5	PASS
		2462	9.160	2457.440	2466.600	0.5	PASS
11G	Ant1	2412	16.280	2403.960	2420.240	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.400	2420.760	0.5	PASS
		2437	17.240	2428.400	2445.640	0.5	PASS
		2462	17.280	2453.400	2470.680	0.5	PASS

Test Graphs

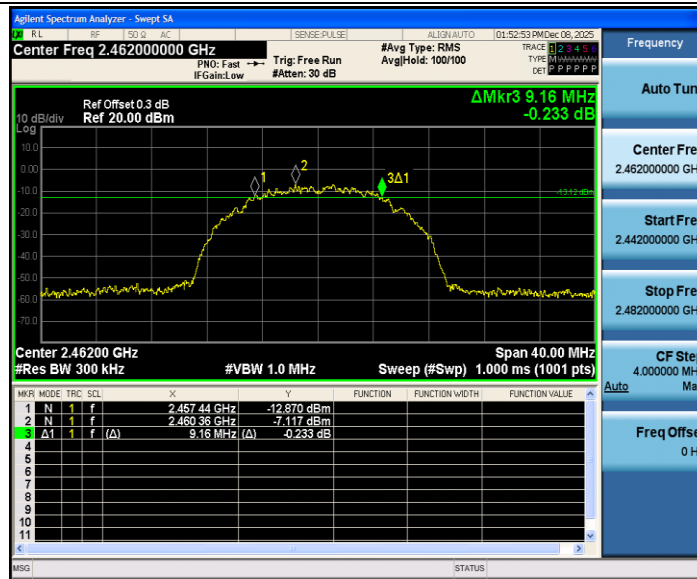
11B_Ant1_2412



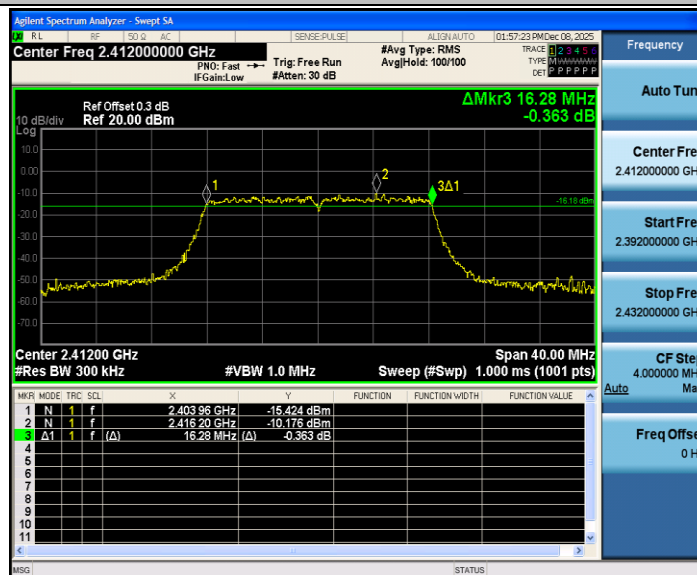
11B_Ant1_2437



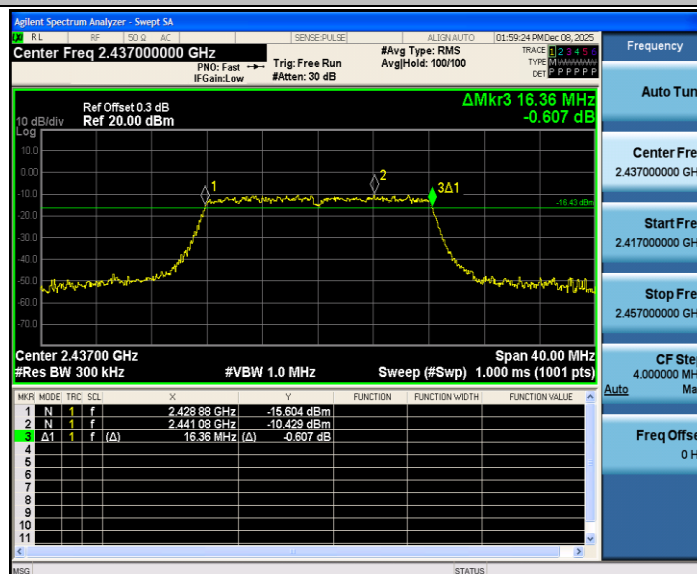
11B_Ant1_2462



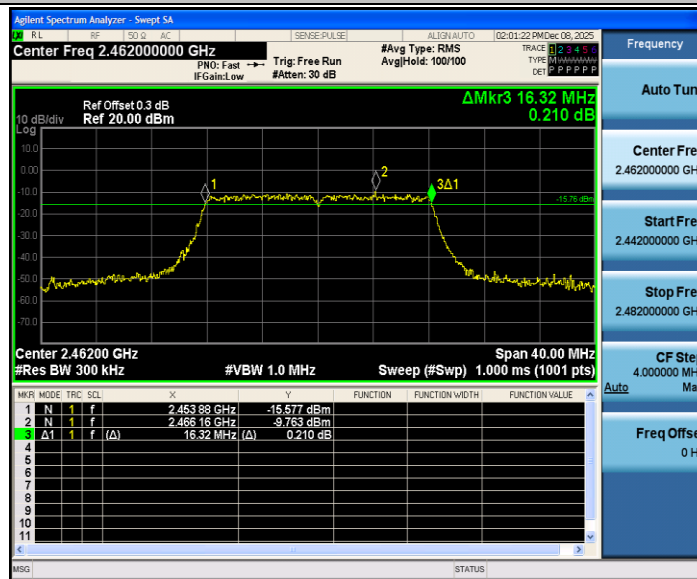
11G_Ant1_2412



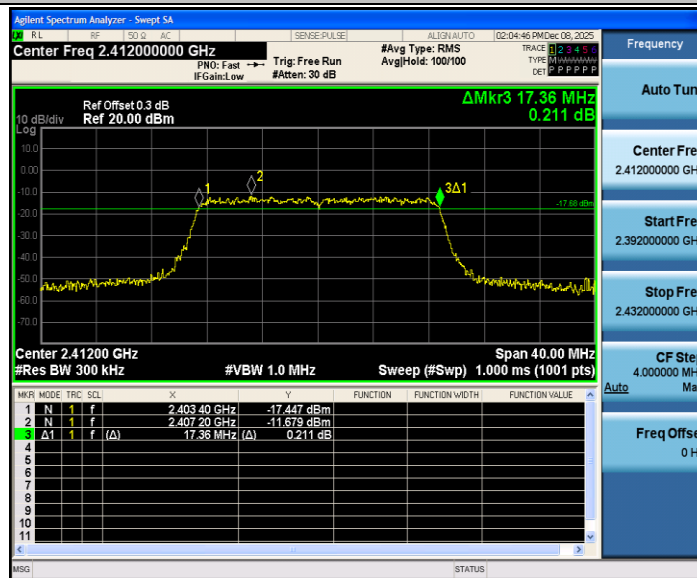
11G_Ant1_2437



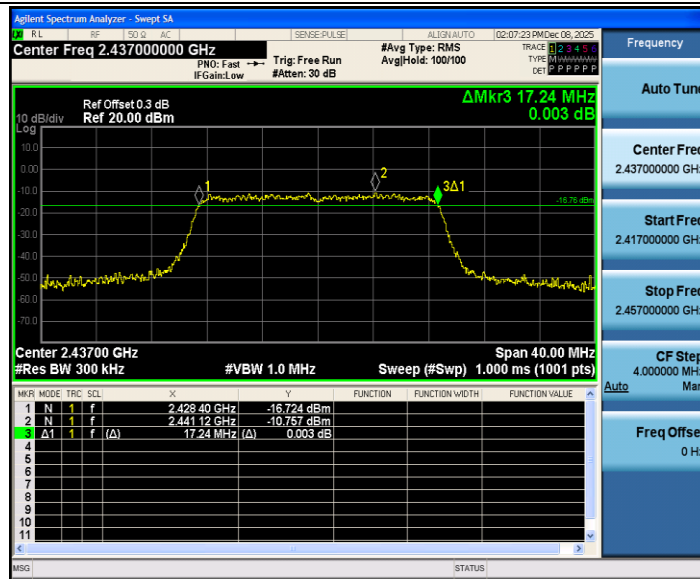
11G_Ant1_2462



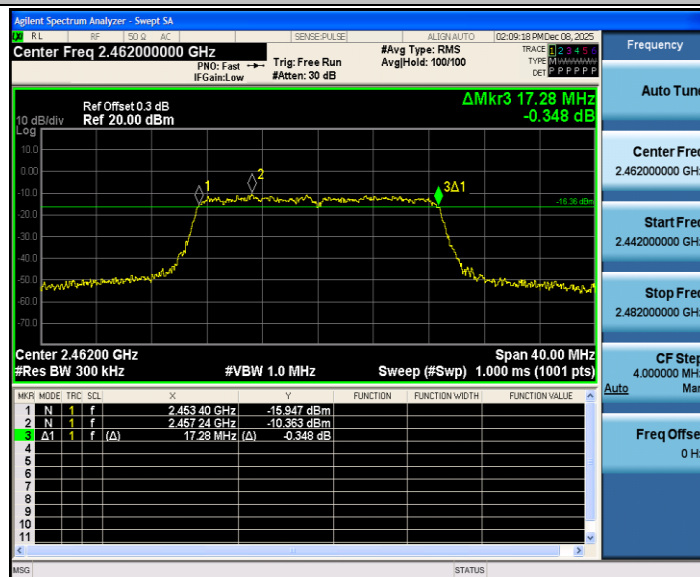
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



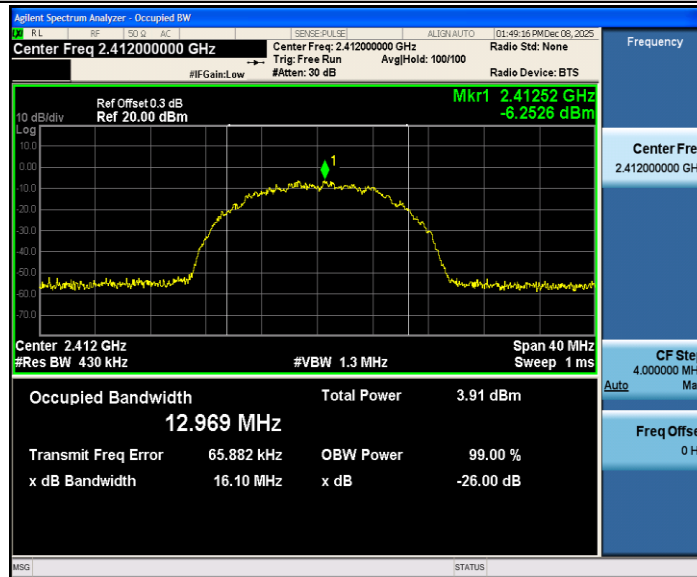
Appendix B: Occupied Channel Bandwidth

Test Result

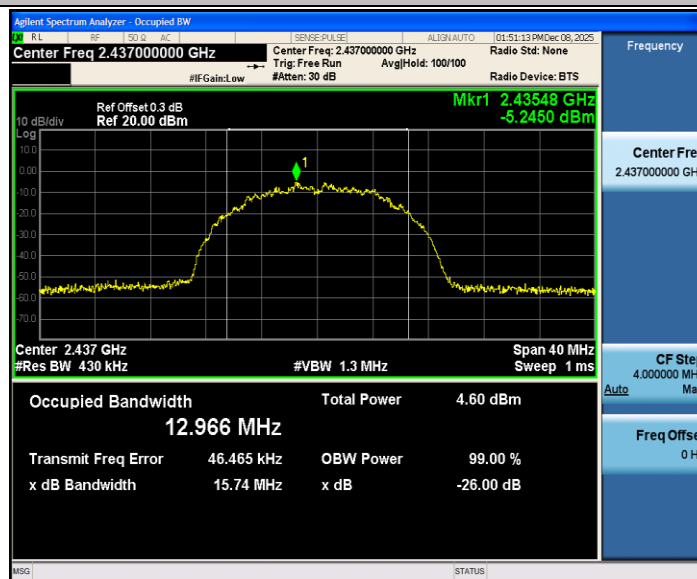
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.969	2405.5814	2418.5504	---	---
		2437	12.966	2430.5635	2443.5295	---	---
		2462	13.006	2455.5128	2468.5188	---	---
11G	Ant1	2412	16.557	2403.7752	2420.3322	---	---
		2437	16.575	2428.7398	2445.3148	---	---
		2462	16.545	2453.7524	2470.2974	---	---
11N20SISO	Ant1	2412	17.454	2403.3347	2420.7887	---	---
		2437	17.466	2428.3094	2445.7754	---	---
		2462	17.449	2453.3195	2470.7685	---	---

Test Graphs

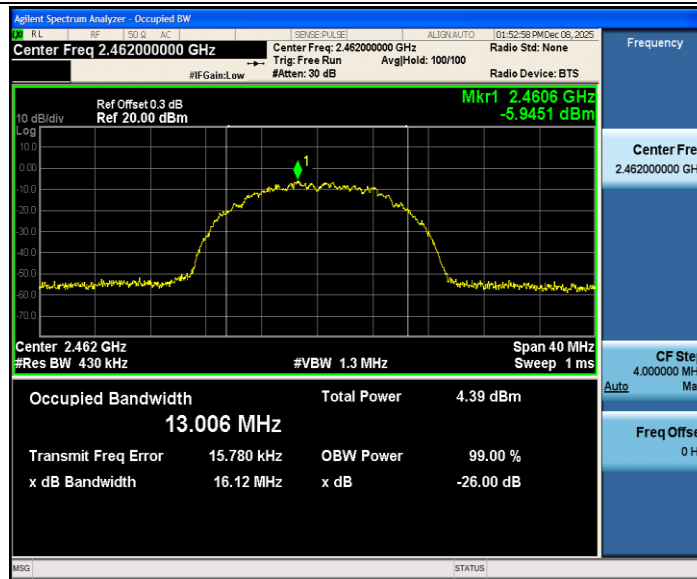
11B_Ant1_2412



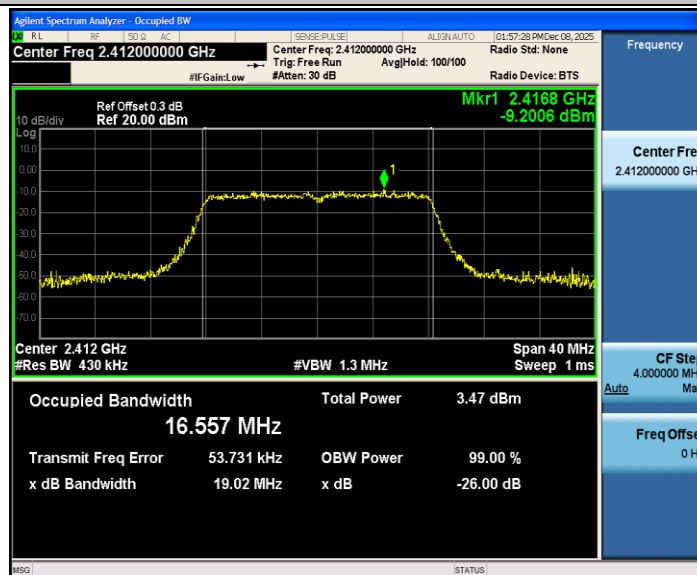
11B_Ant1_2437



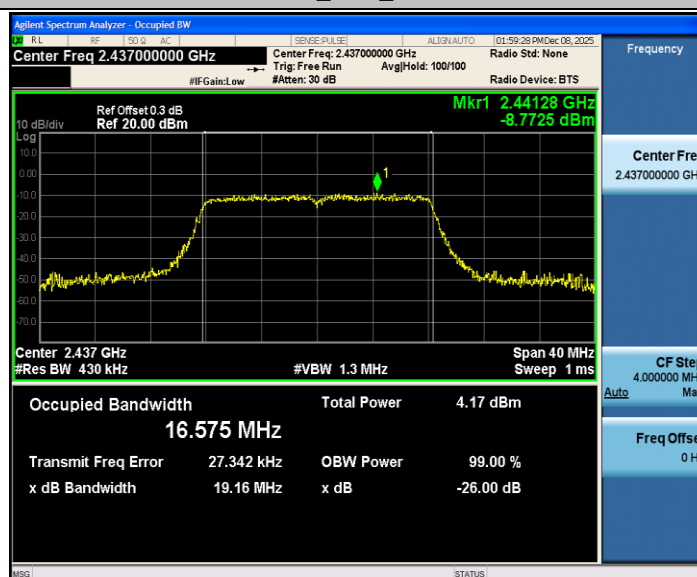
11B_Ant1_2462



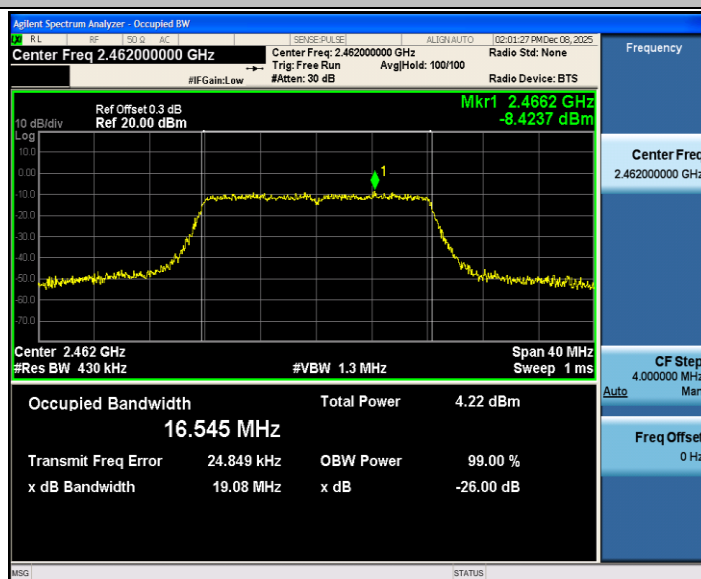
11G_Ant1_2412



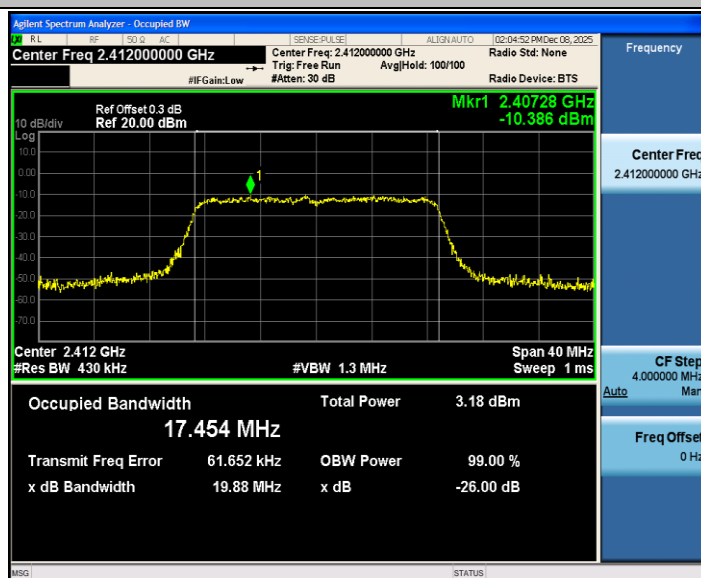
11G_Ant1_2437



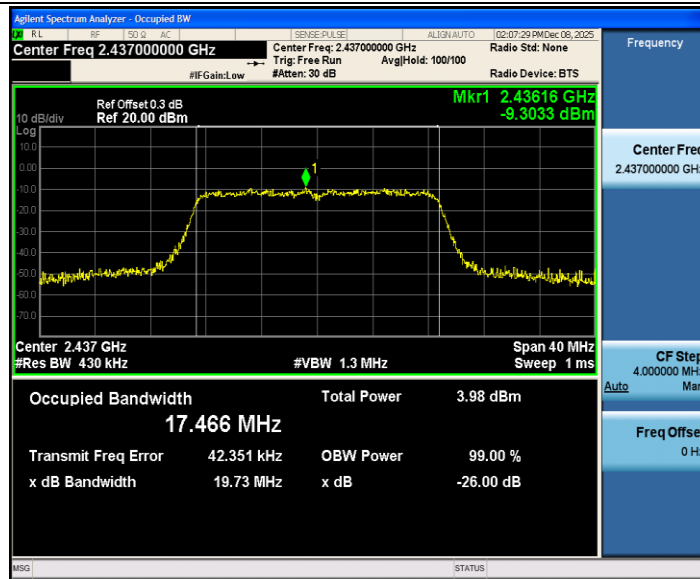
11G_Ant1_2462



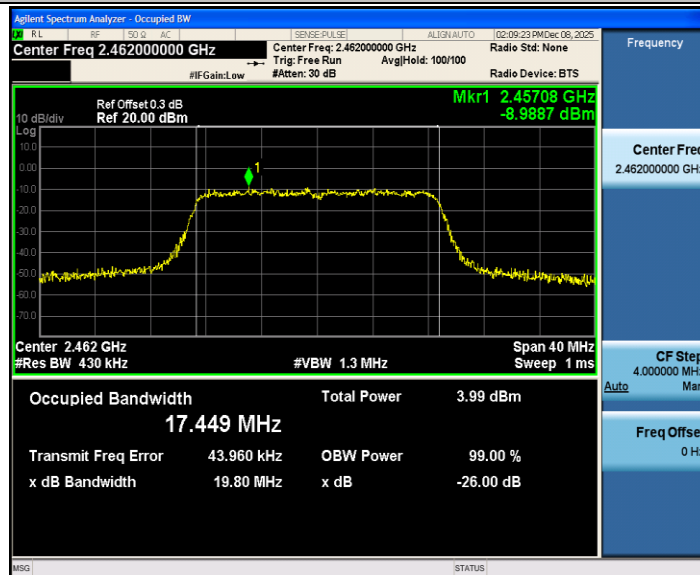
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	3.31	≤30.00	PASS
		2437	3.91	≤30.00	PASS
		2462	4.06	≤30.00	PASS
11G	Ant1	2412	4.25	≤30.00	PASS
		2437	5.05	≤30.00	PASS
		2462	4.98	≤30.00	PASS
11N20SISO	Ant1	2412	4.46	≤30.00	PASS
		2437	5.17	≤30.00	PASS
		2462	5.22	≤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	-25.52	≤8.00	PASS
		2437	-24.75	≤8.00	PASS
		2462	-25.48	≤8.00	PASS
11G	Ant1	2412	-30.14	≤8.00	PASS
		2437	-29.33	≤8.00	PASS
		2462	-29.52	≤8.00	PASS
11N20SISO	Ant1	2412	-30.03	≤8.00	PASS
		2437	-29.03	≤8.00	PASS
		2462	-29.46	≤8.00	PASS

Test Graphs

11B_Ant1_2412



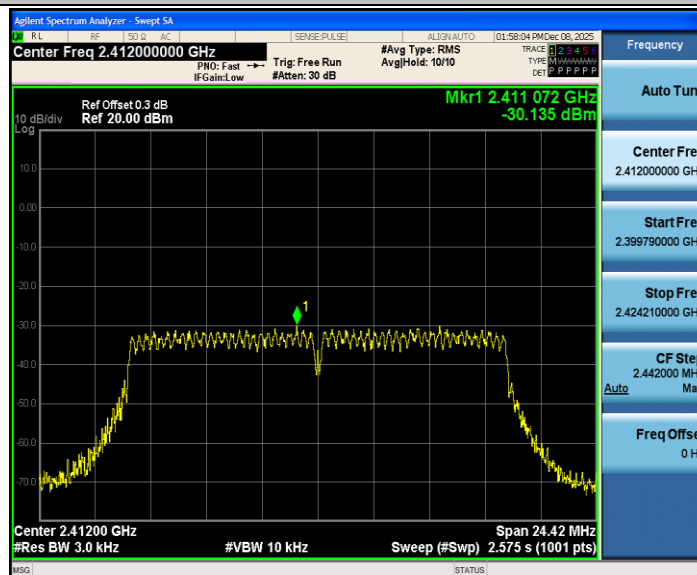
11B_Ant1_2437



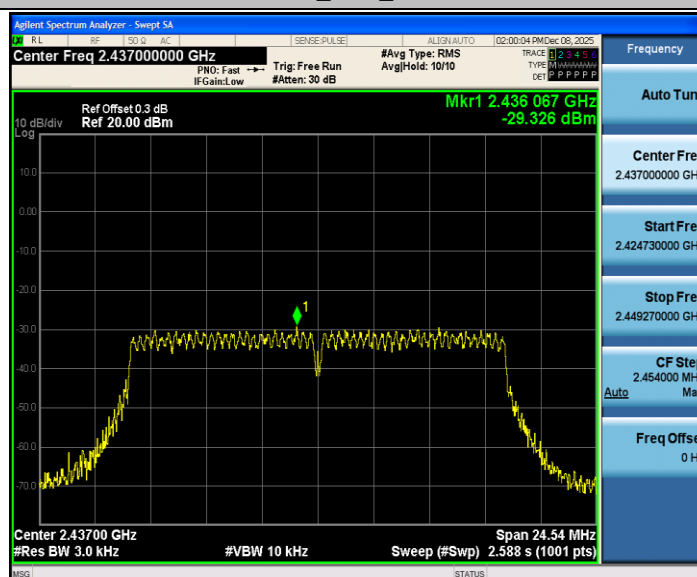
11B_Ant1_2462



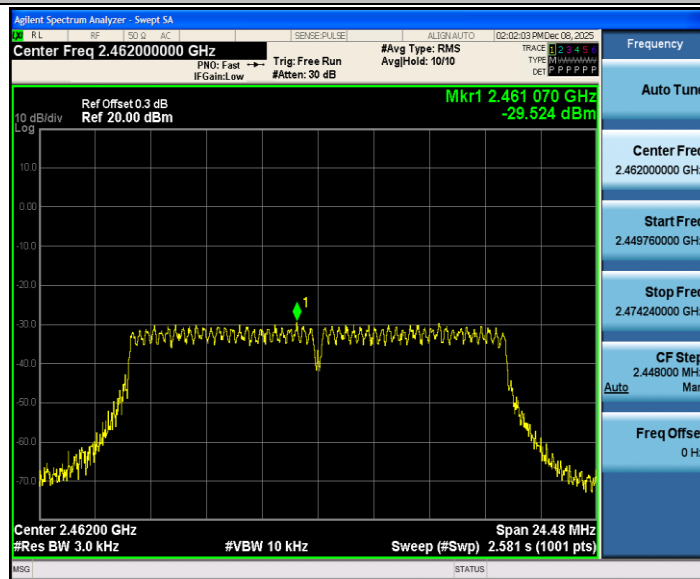
11G_Ant1_2412



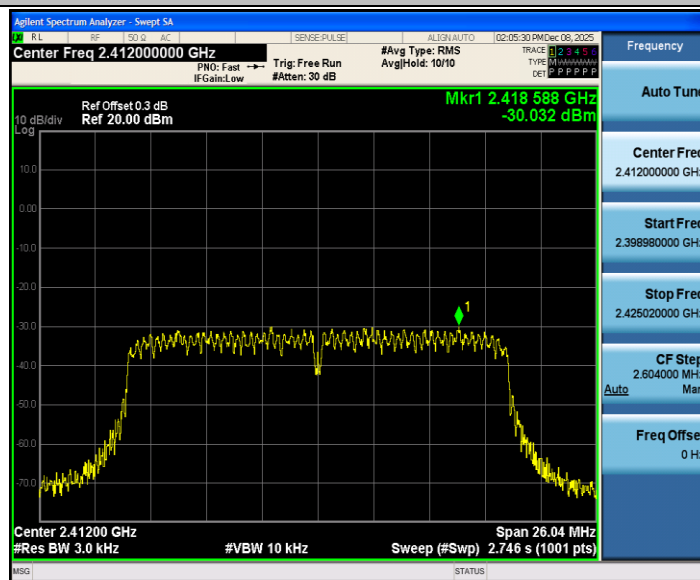
11G_Ant1_2437



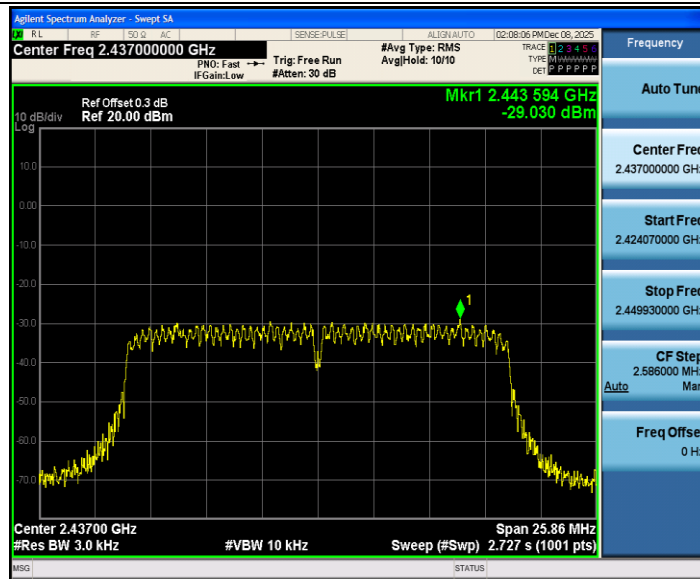
11G_Ant1_2462



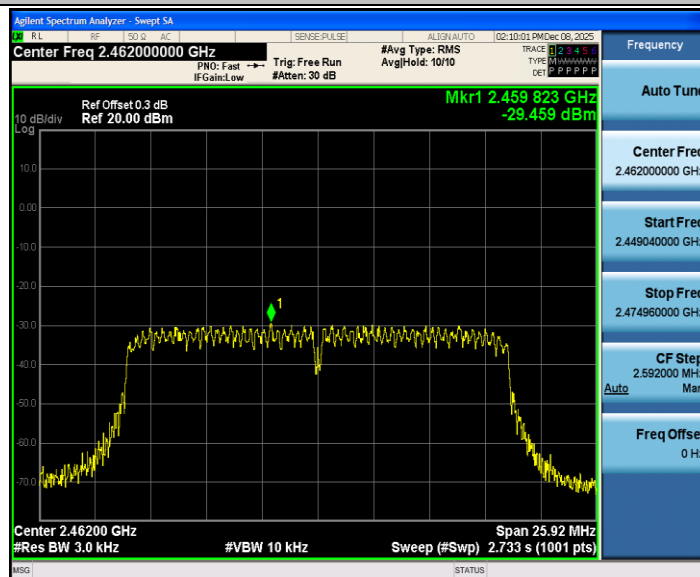
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



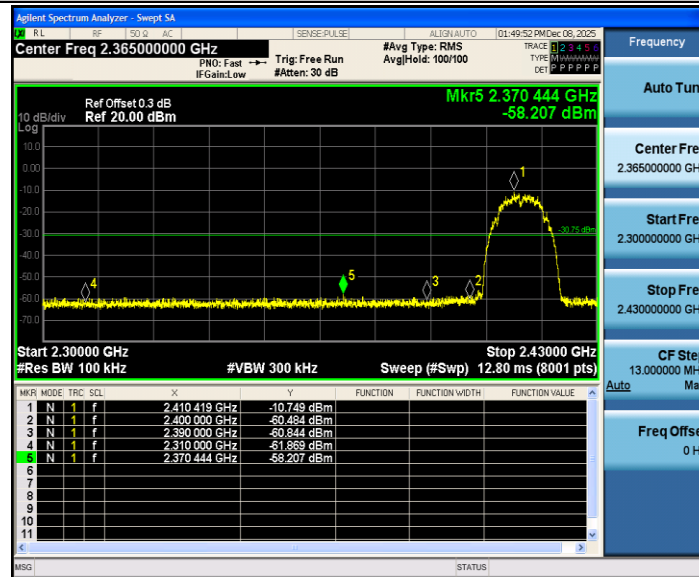
Appendix E: Band edge measurements

Test Result

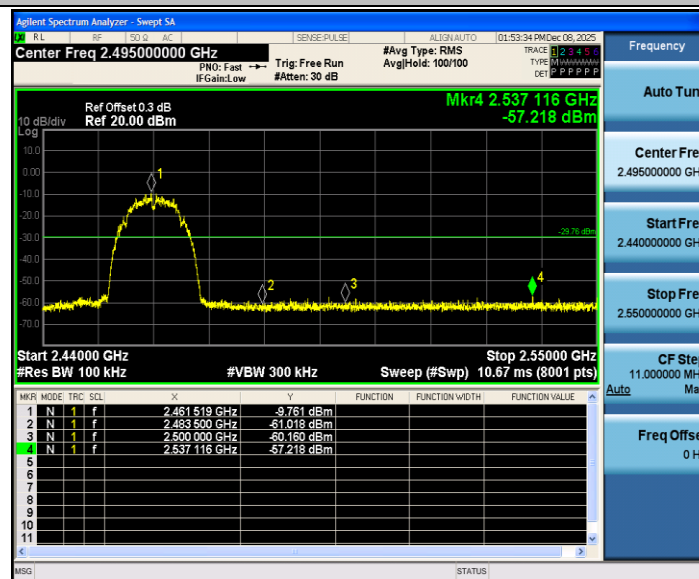
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-10.75	-58.21	≤-30.75	PASS
		High	2462	-9.76	-57.22	≤-29.76	PASS
11G	Ant1	Low	2412	-16.29	-52.83	≤-36.29	PASS
		High	2462	-15.54	-57.55	≤-35.54	PASS
11N20SISO	Ant1	Low	2412	-16.54	-53.48	≤-36.54	PASS
		High	2462	-15.76	-57.43	≤-35.76	PASS

Test Graphs

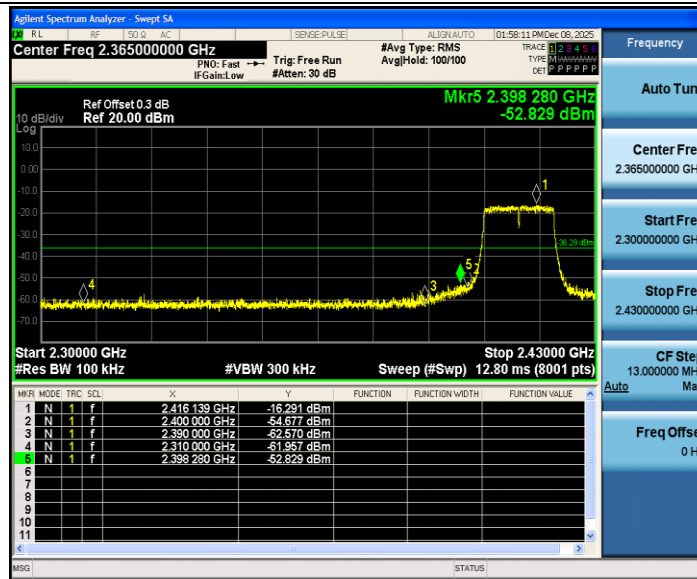
11B_Ant1_Low_2412



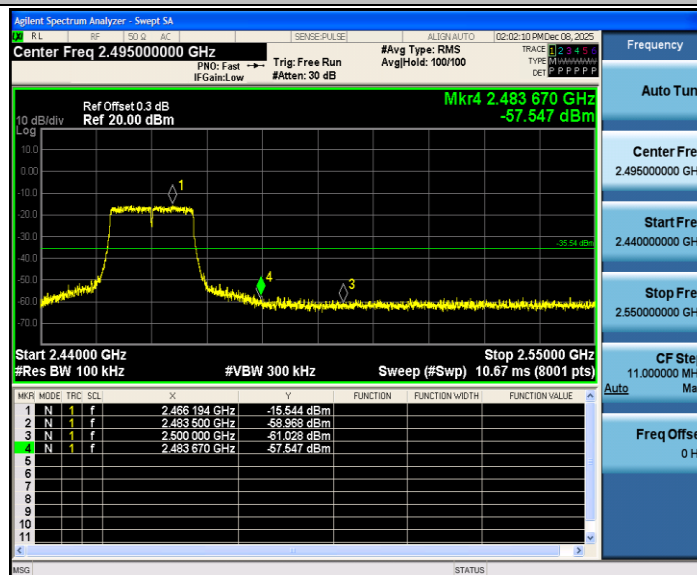
11B_Ant1_High_2462



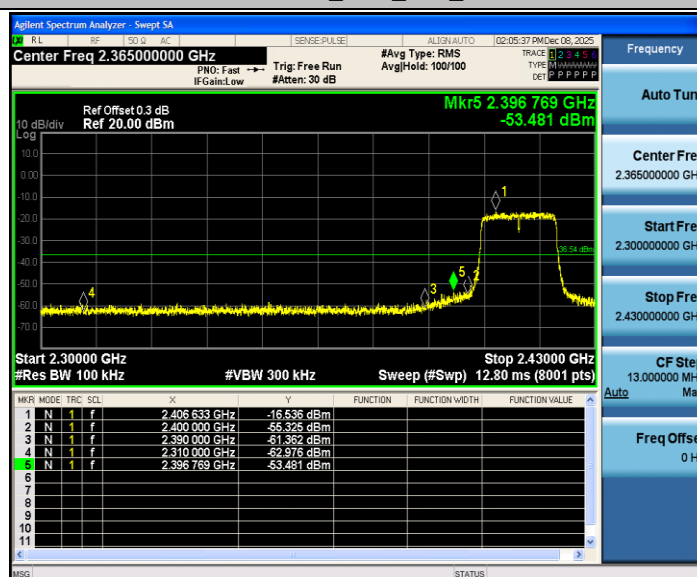
11G_Ant1_Low_2412



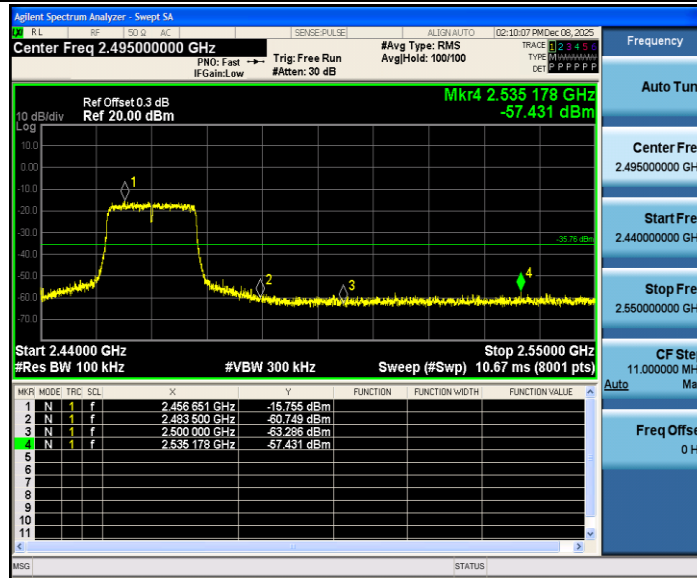
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



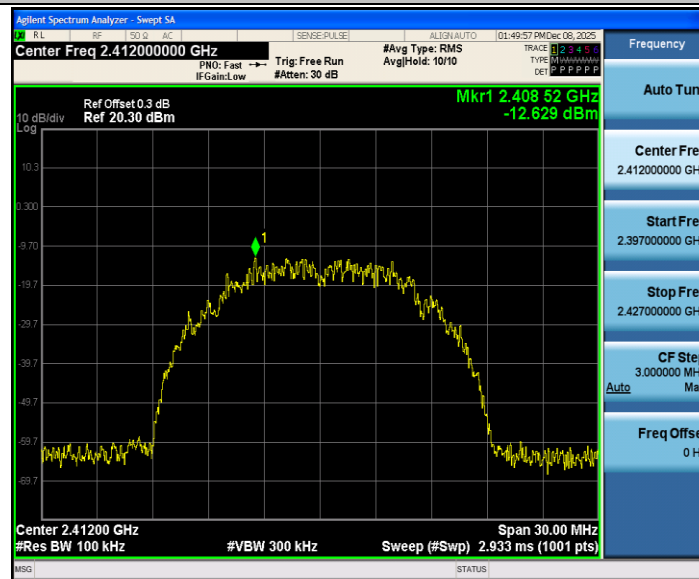
Appendix F: Conducted Spurious Emission

Test Result

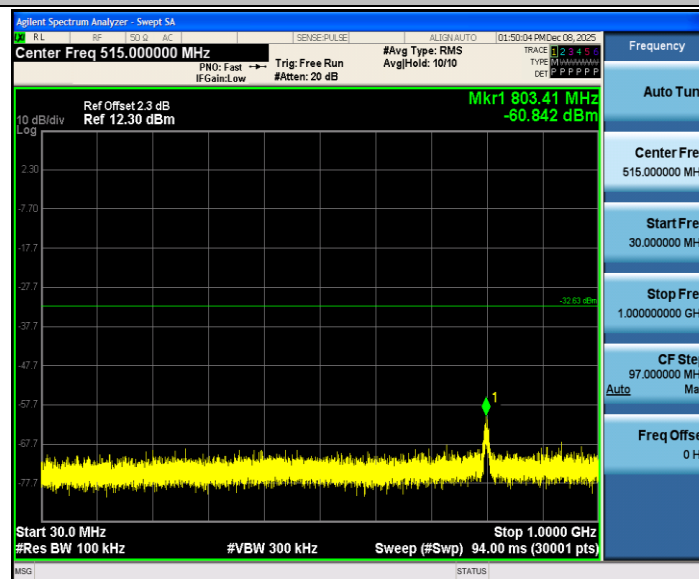
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-12.63	-12.63	---	PASS
			30~1000	-12.63	-60.84	≤-32.63	PASS
			1000~26500	-12.63	-45.16	≤-32.63	PASS
		2437	Reference	-11.93	-11.93	---	PASS
			30~1000	-11.93	-61.72	≤-31.93	PASS
			1000~26500	-11.93	-45.64	≤-31.93	PASS
		2462	Reference	-10.82	-10.82	---	PASS
			30~1000	-10.82	-60.98	≤-30.82	PASS
			1000~26500	-10.82	-46.21	≤-30.82	PASS
11G	Ant1	2412	Reference	-16.91	-16.91	---	PASS
			30~1000	-16.91	-65.13	≤-36.91	PASS
			1000~26500	-16.91	-44.48	≤-36.91	PASS
		2437	Reference	-15.60	-15.60	---	PASS
			30~1000	-15.60	-65.35	≤-35.6	PASS
			1000~26500	-15.60	-45.04	≤-35.6	PASS
		2462	Reference	-16.04	-16.04	---	PASS
			30~1000	-16.04	-64.89	≤-36.04	PASS
			1000~26500	-16.04	-45.59	≤-36.04	PASS
11N20SISO	Ant1	2412	Reference	-16.70	-16.70	---	PASS
			30~1000	-16.70	-65.02	≤-36.7	PASS
			1000~26500	-16.70	-44.63	≤-36.7	PASS
		2437	Reference	-15.86	-15.86	---	PASS
			30~1000	-15.86	-64.26	≤-35.86	PASS
			1000~26500	-15.86	-45.02	≤-35.86	PASS
		2462	Reference	-16.69	-16.69	---	PASS
			30~1000	-16.69	-65.32	≤-36.69	PASS
			1000~26500	-16.69	-45.77	≤-36.69	PASS

Test Graphs

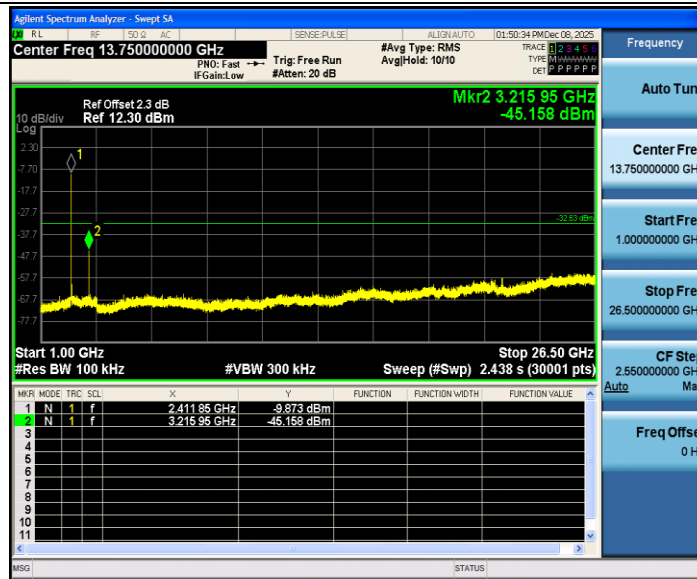
11B_Ant1_2412_0~Reference



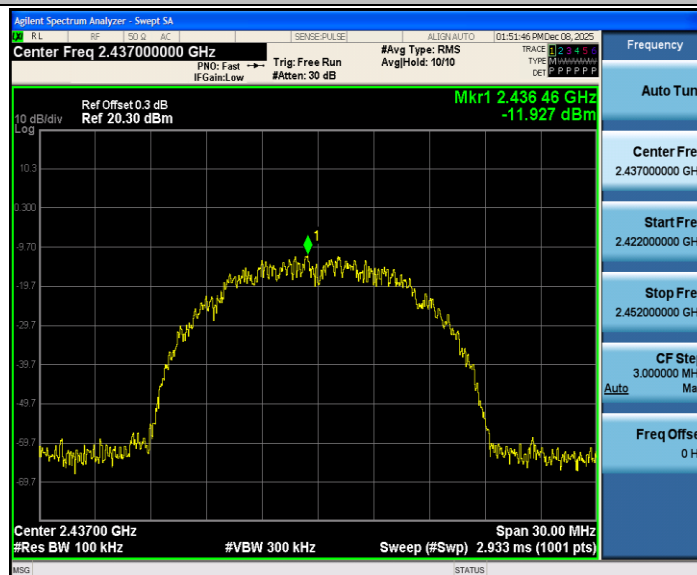
11B_Ant1_2412_30~1000



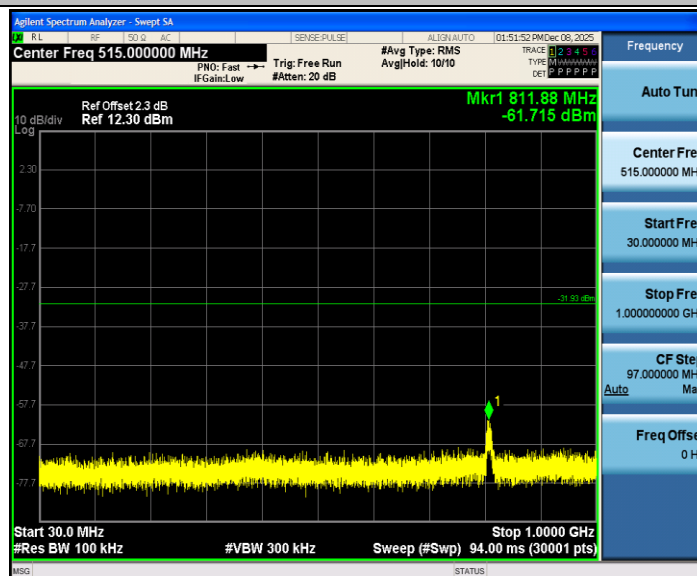
11B_Ant1_2412_1000~26500



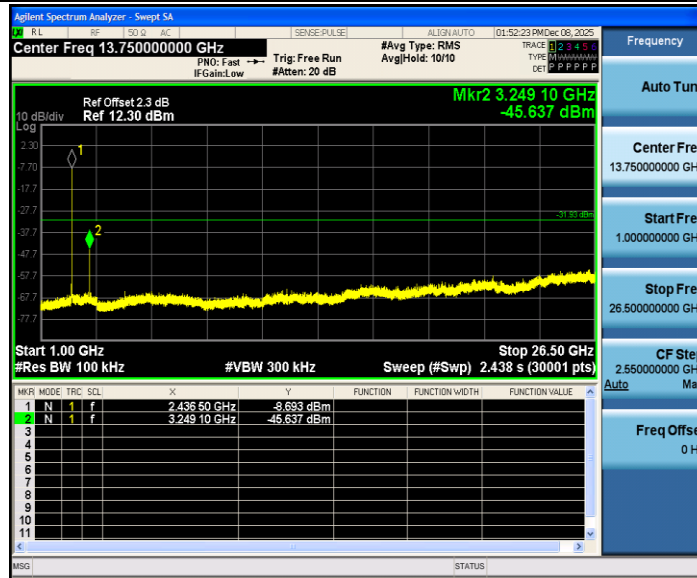
11B_Ant1_2437_0~Reference



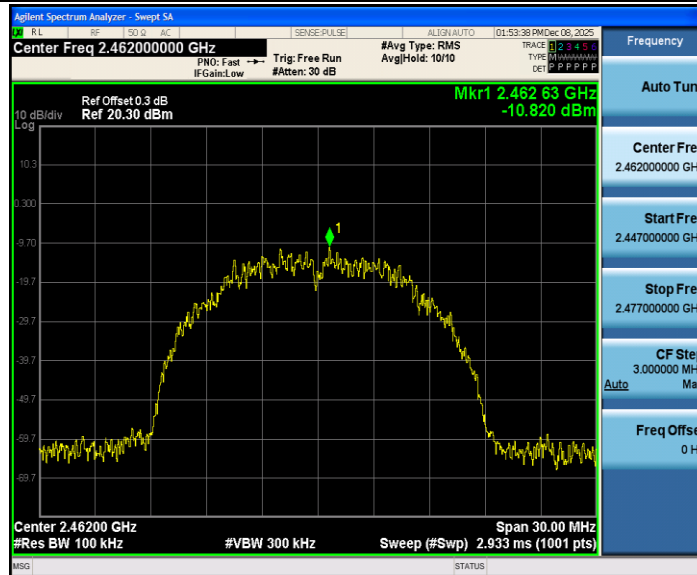
11B_Ant1_2437_30~1000



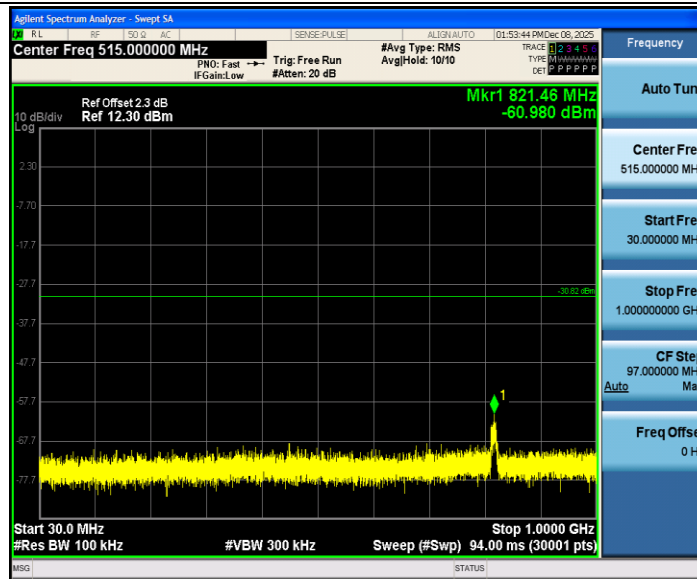
11B_Ant1_2437_1000~26500



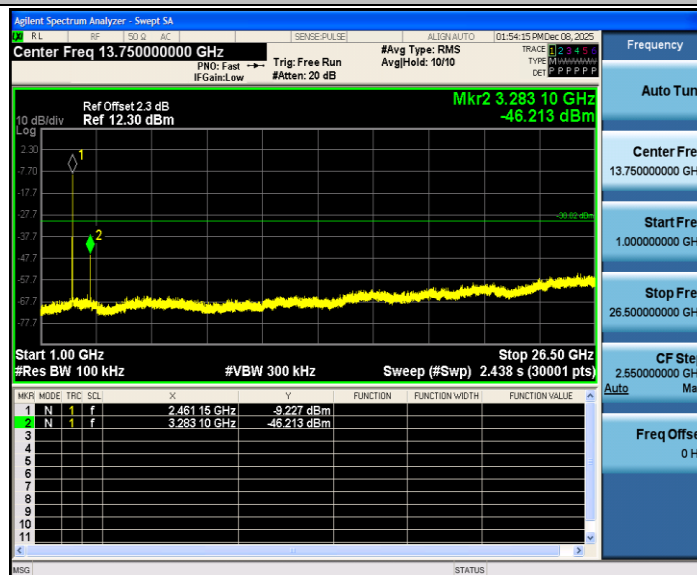
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



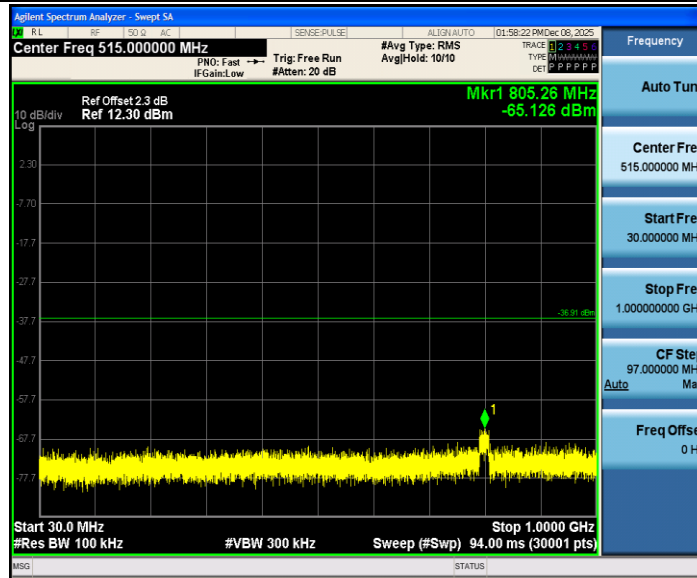
11B_Ant1_2462_1000~26500



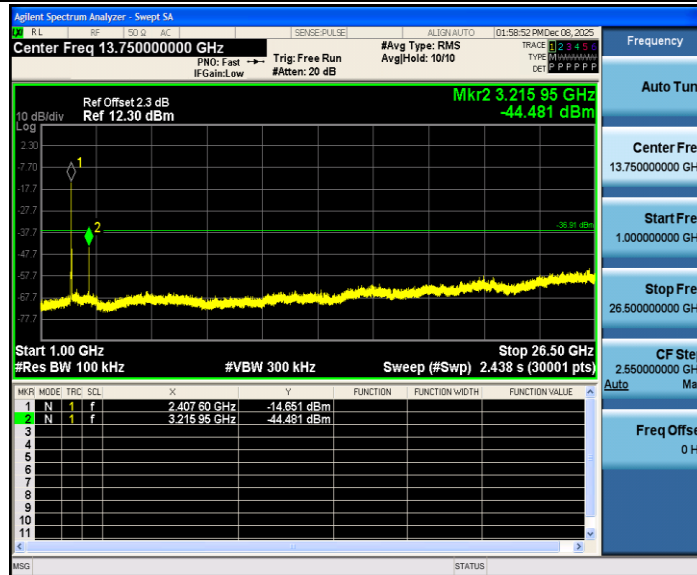
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



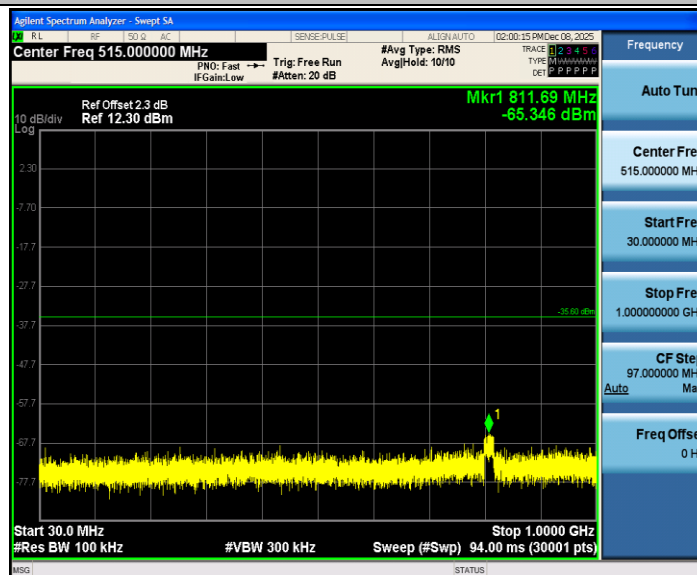
11G_Ant1_2412_1000~26500



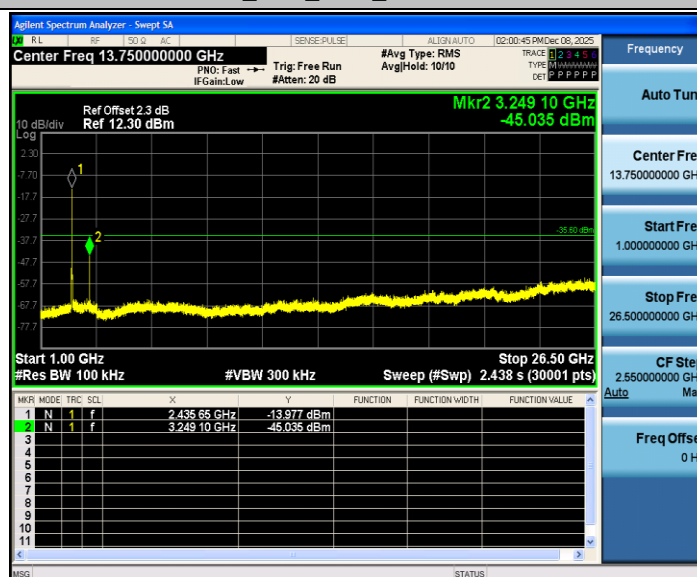
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



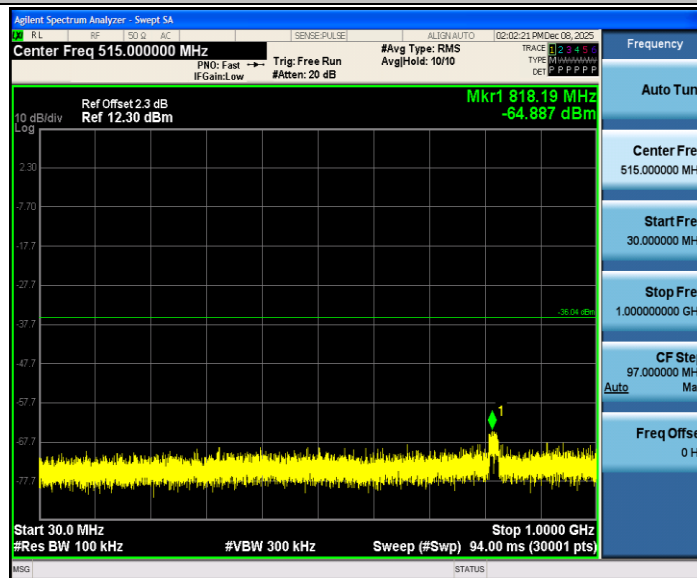
11G_Ant1_2437_1000~26500



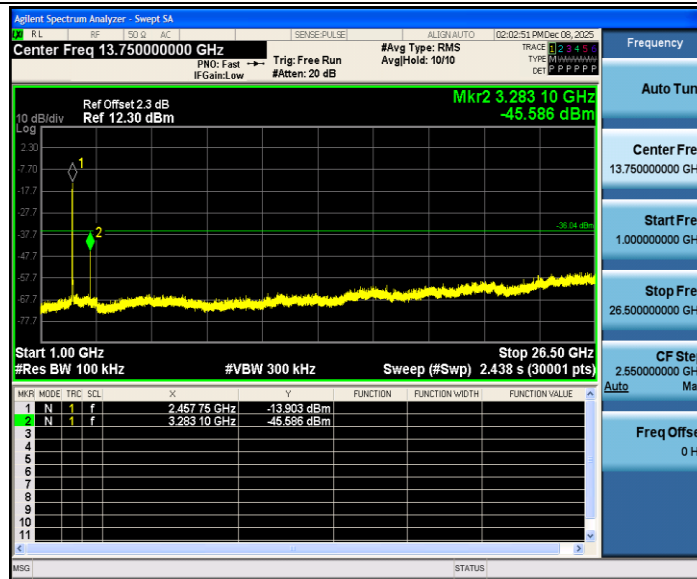
11G_Ant1_2462_0~Reference



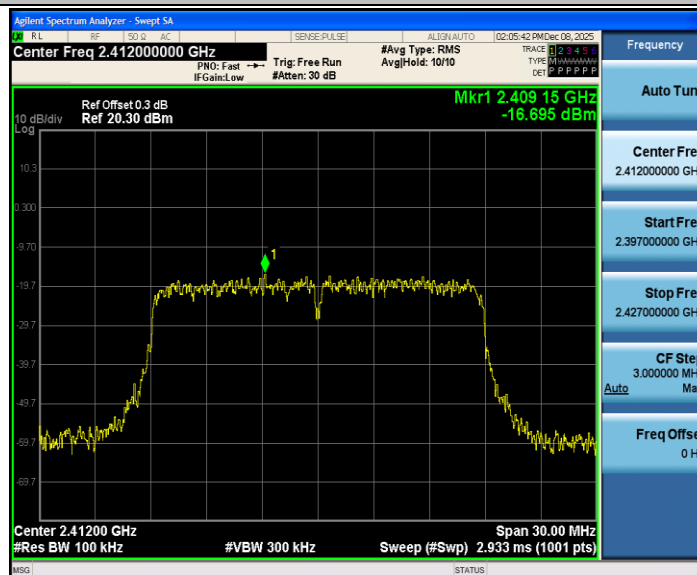
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

