

FCC Appendix RF Test Data for BLE

FCC ID : 2A9JD-Q11

Company : Shenzhen Jingyun Wulian Technology CO.,Ltd

EUT : smart glasses

Model Number : Q11

Report No. : CTA26050901002

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	10.200	2406.920	2417.120	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.960	2404.080	2420.040	0.5	PASS
		2437	15.600	2429.440	2445.040	0.5	PASS
		2462	16.000	2454.040	2470.040	0.5	PASS
11N20SISO	Ant1	2412	16.720	2403.680	2420.400	0.5	PASS
		2437	16.360	2429.120	2445.480	0.5	PASS
		2462	16.480	2453.680	2470.160	0.5	PASS

Test Graphs

11B_Ant1_2412



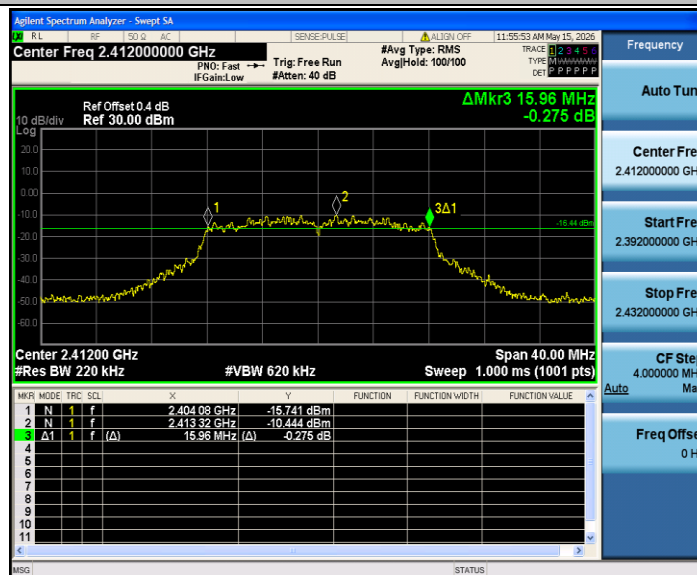
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



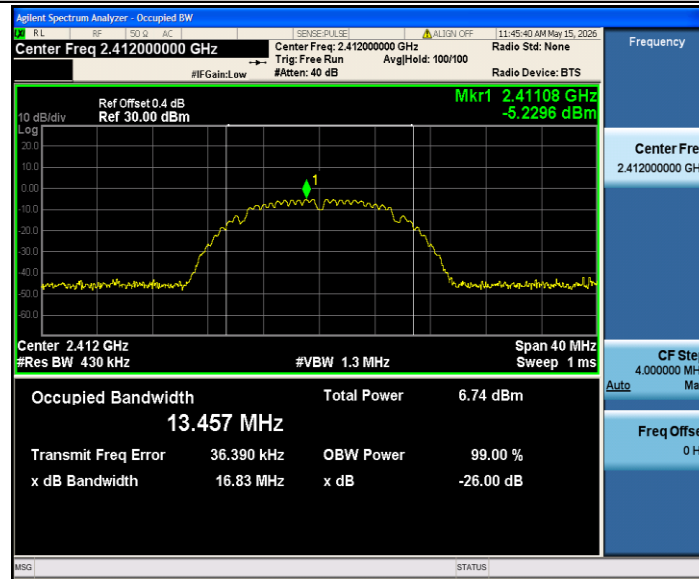
Appendix B: Occupied Channel Bandwidth

Test Result

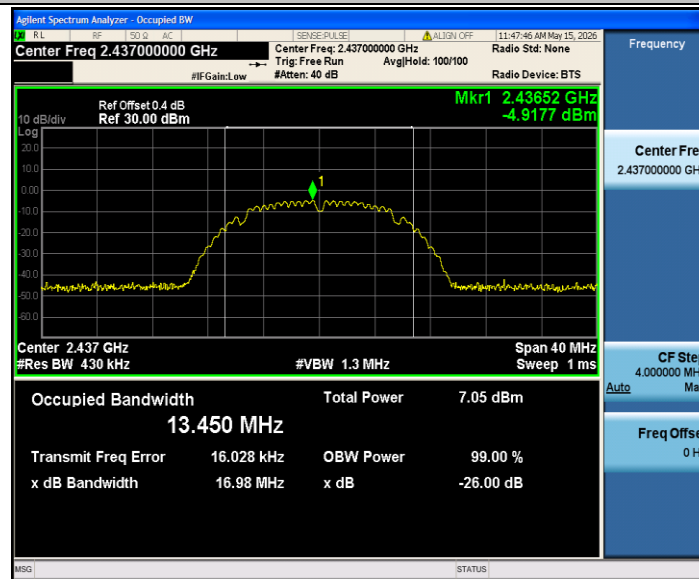
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.457	2405.3079	2418.7649	---	---
		2437	13.450	2430.2910	2443.7410	---	---
		2462	13.471	2455.2717	2468.7427	---	---
11G	Ant1	2412	16.821	2403.6504	2420.4714	---	---
		2437	16.804	2428.6659	2445.4699	---	---
		2462	16.863	2453.6009	2470.4639	---	---
11N20SISO	Ant1	2412	17.901	2403.0704	2420.9714	---	---
		2437	17.932	2428.0260	2445.9580	---	---
		2462	17.982	2453.0231	2471.0051	---	---

Test Graphs

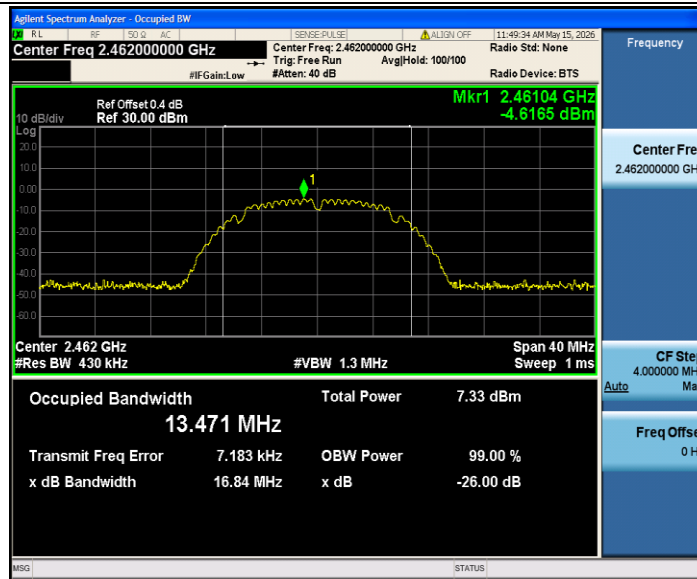
11B_Ant1_2412



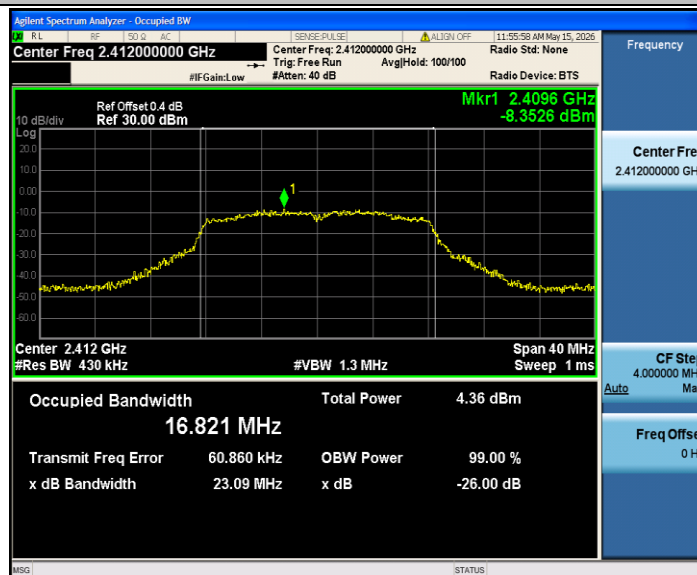
11B_Ant1_2437



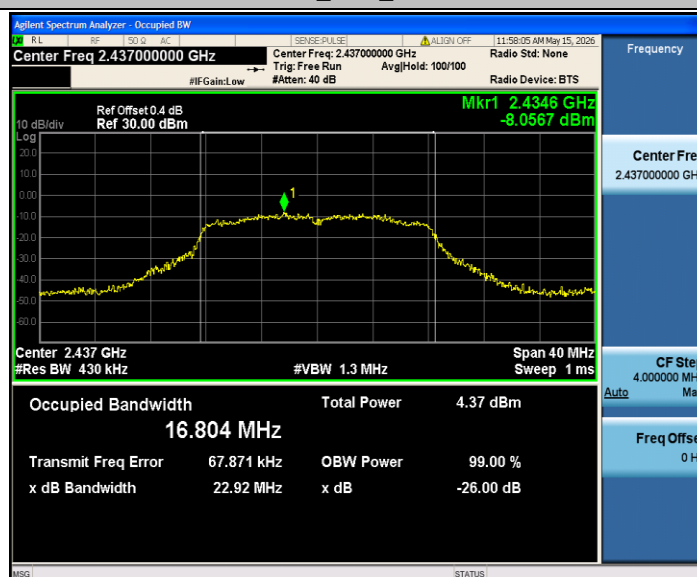
11B_Ant1_2462



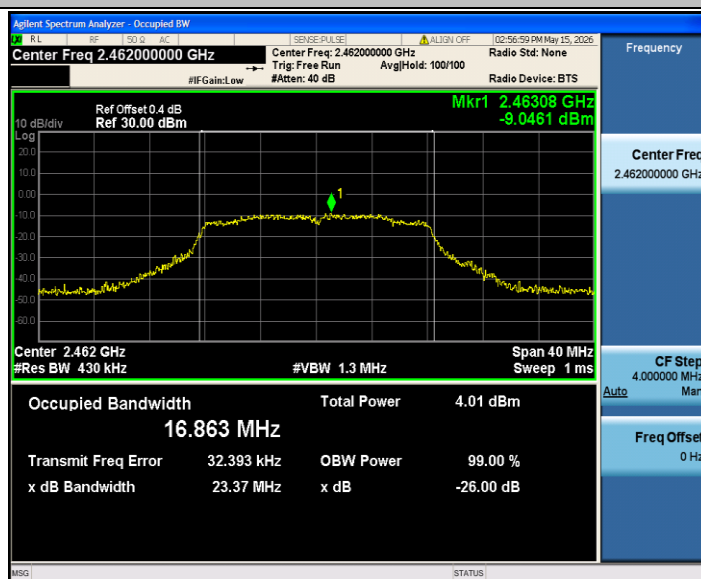
11G_Ant1_2412



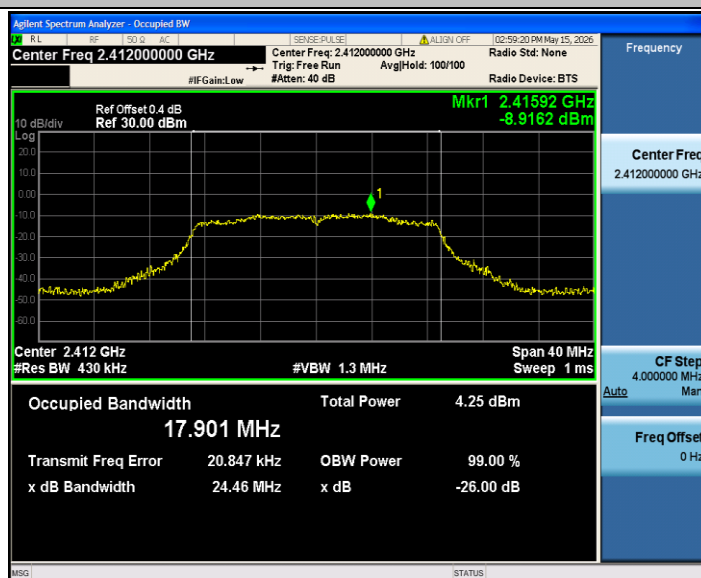
11G_Ant1_2437



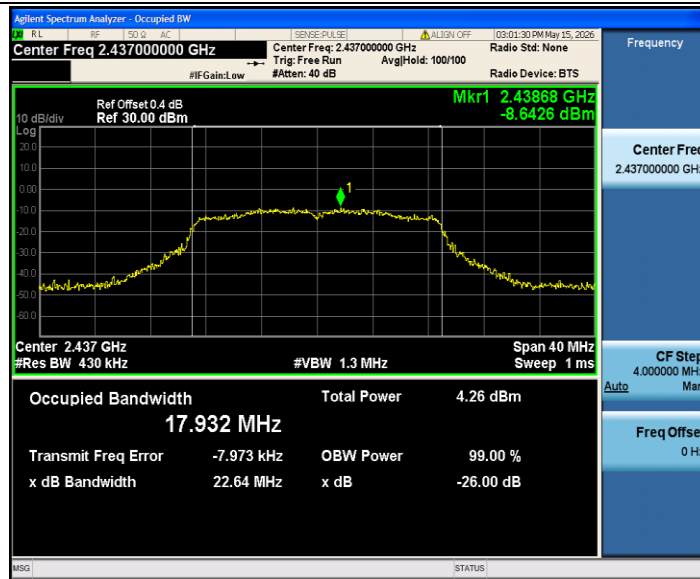
11G_Ant1_2462



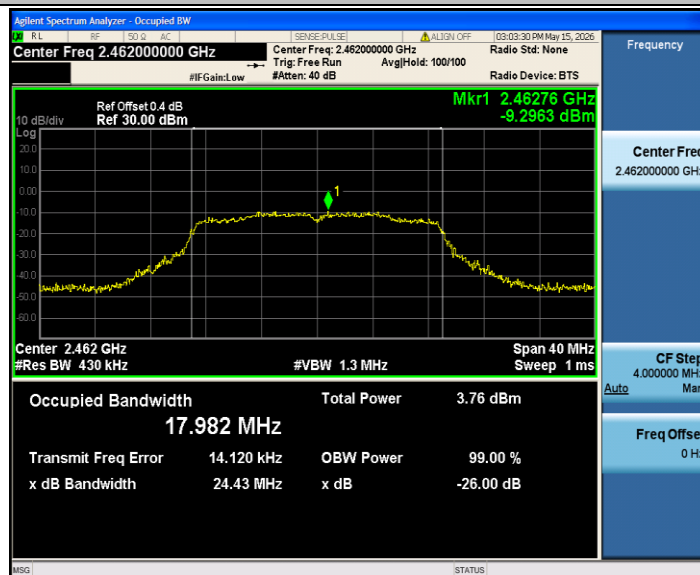
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	6.41	≤30.00	PASS
		2437	6.82	≤30.00	PASS
		2462	6.90	≤30.00	PASS
11G	Ant1	2412	5.31	≤30.00	PASS
		2437	5.15	≤30.00	PASS
		2462	4.86	≤30.00	PASS
11N20SISO	Ant1	2412	5.15	≤30.00	PASS
		2437	5.04	≤30.00	PASS
		2462	4.64	≤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	-20.04	≤8.00	PASS
		2437	-18.53	≤8.00	PASS
		2462	-19.34	≤8.00	PASS
11G	Ant1	2412	-26.39	≤8.00	PASS
		2437	-26.31	≤8.00	PASS
		2462	-26.45	≤8.00	PASS
11N20SISO	Ant1	2412	-24.66	≤8.00	PASS
		2437	-26.86	≤8.00	PASS
		2462	-26.17	≤8.00	PASS

Test Graphs

11B_Ant1_2412



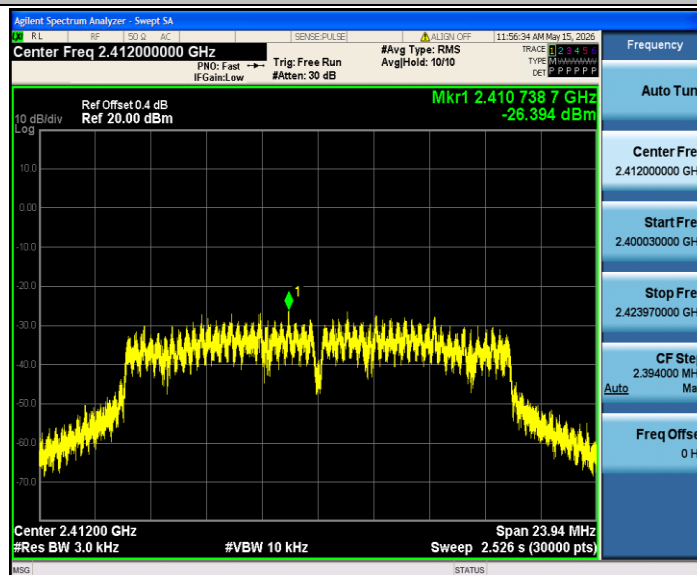
11B_Ant1_2437



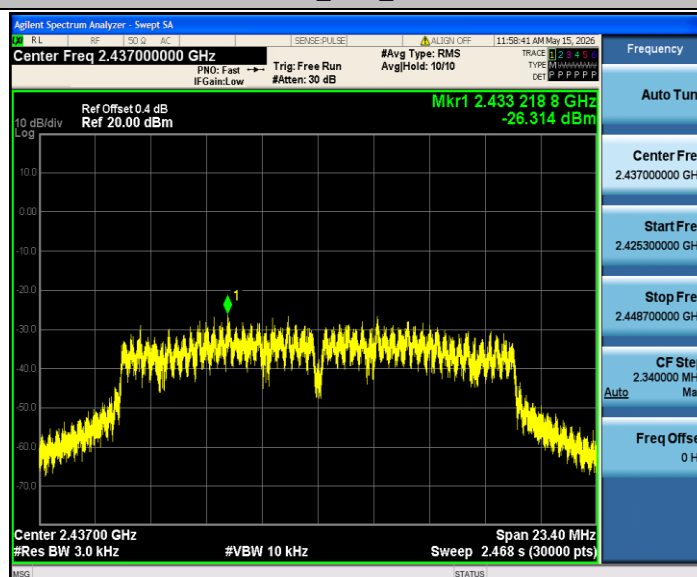
11B_Ant1_2462



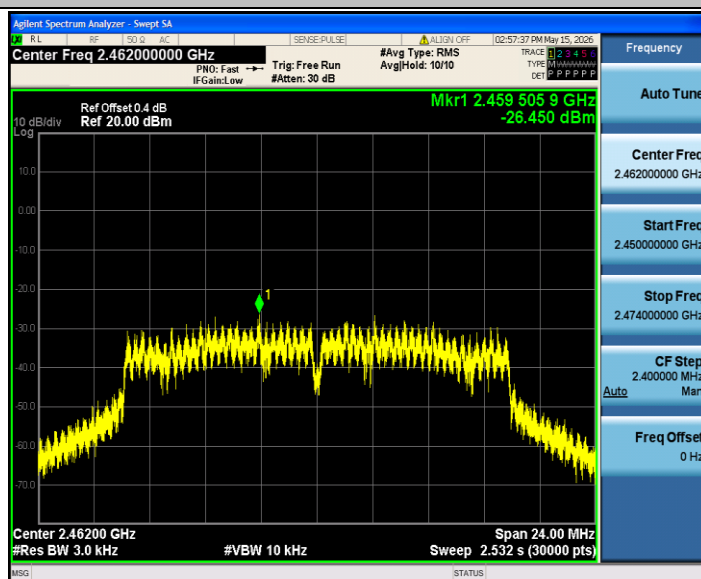
11G_Ant1_2412



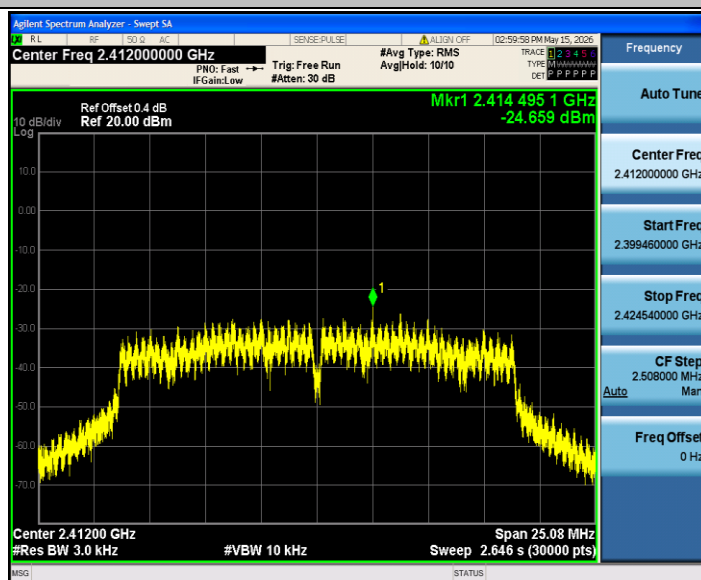
11G_Ant1_2437



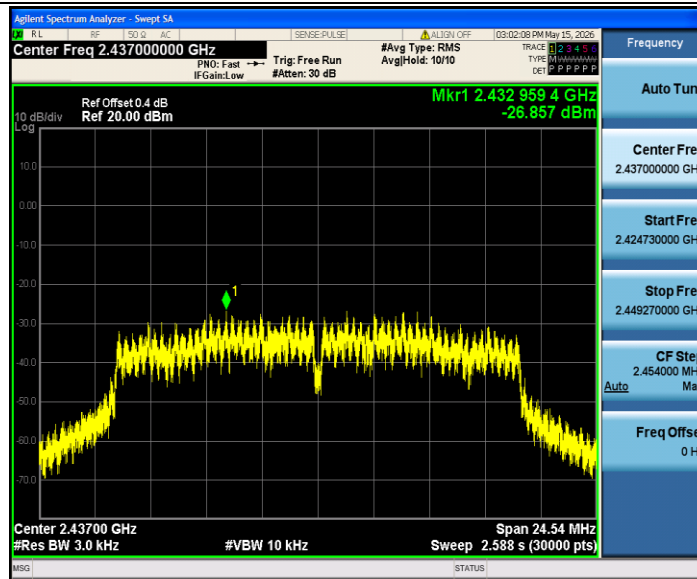
11G_Ant1_2462



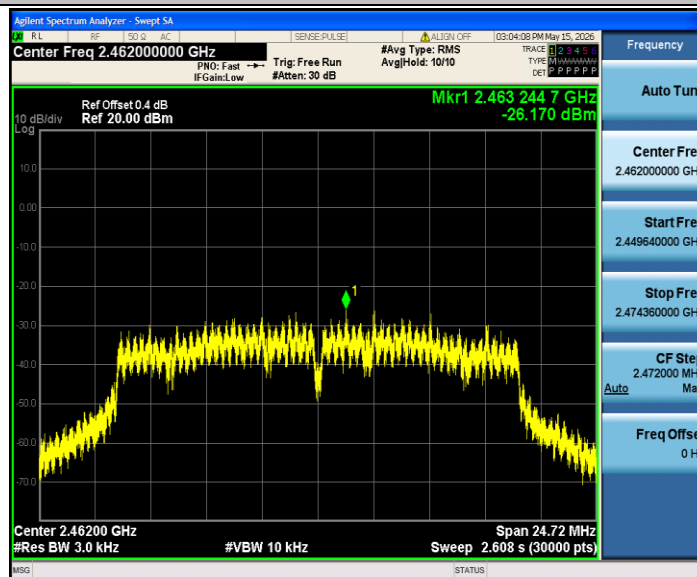
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



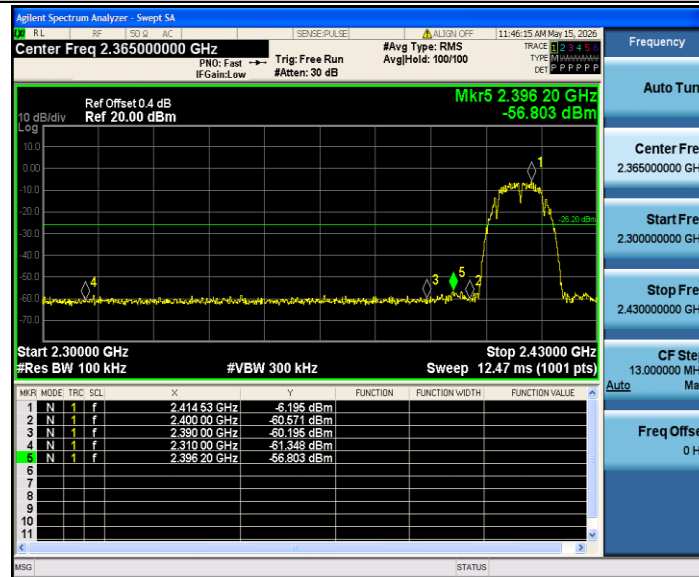
Appendix E: Band edge measurements

Test Result

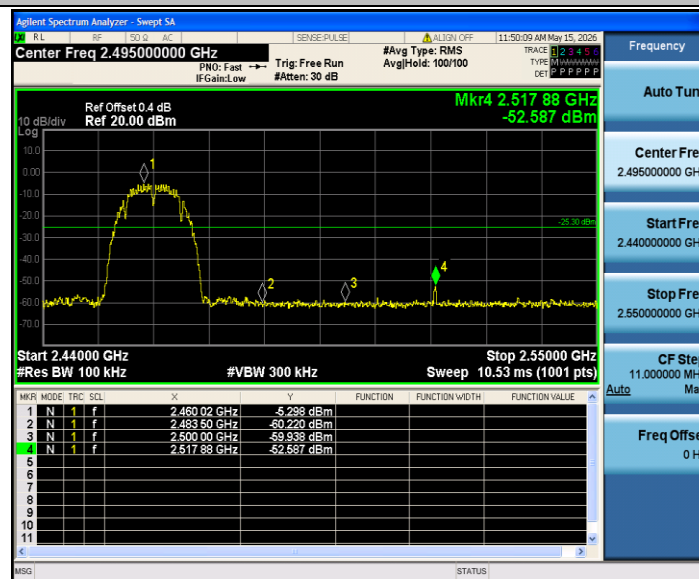
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.20	-56.8	≤-26.2	PASS
		High	2462	-5.30	-52.59	≤-25.3	PASS
11G	Ant1	Low	2412	-11.61	-43.47	≤-31.61	PASS
		High	2462	-11.85	-58.39	≤-31.85	PASS
11N20SISO	Ant1	Low	2412	-11.28	-43.4	≤-31.28	PASS
		High	2462	-11.74	-57.43	≤-31.74	PASS

Test Graphs

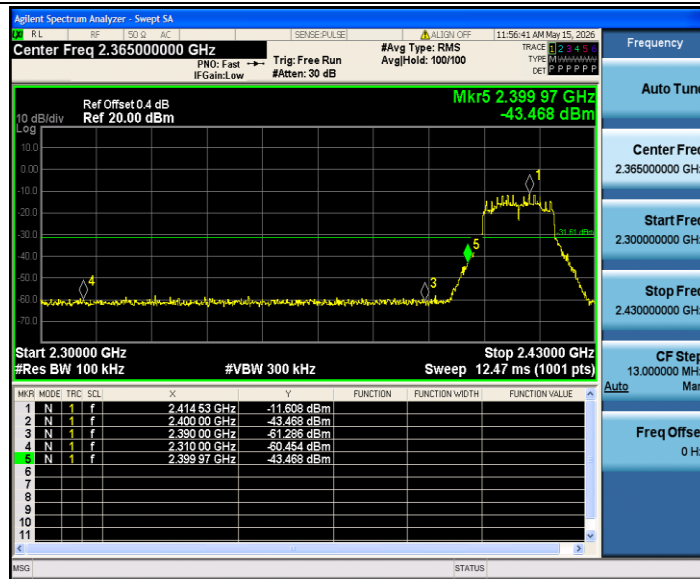
11B_Ant1_Low_2412



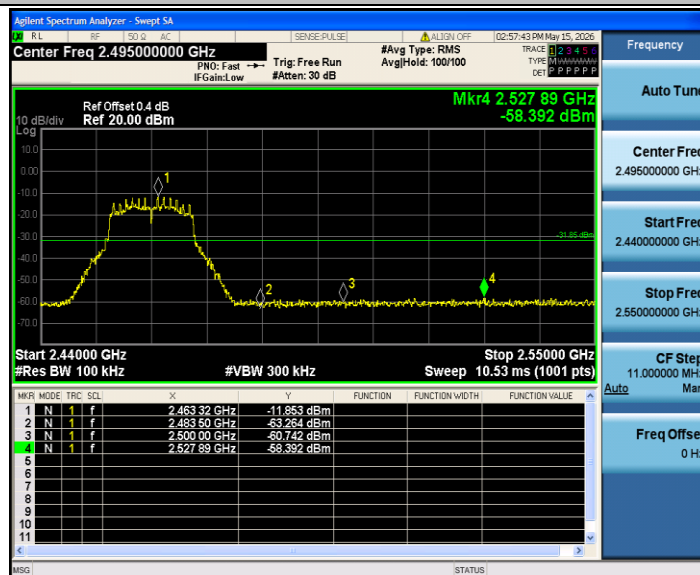
11B_Ant1_High_2462



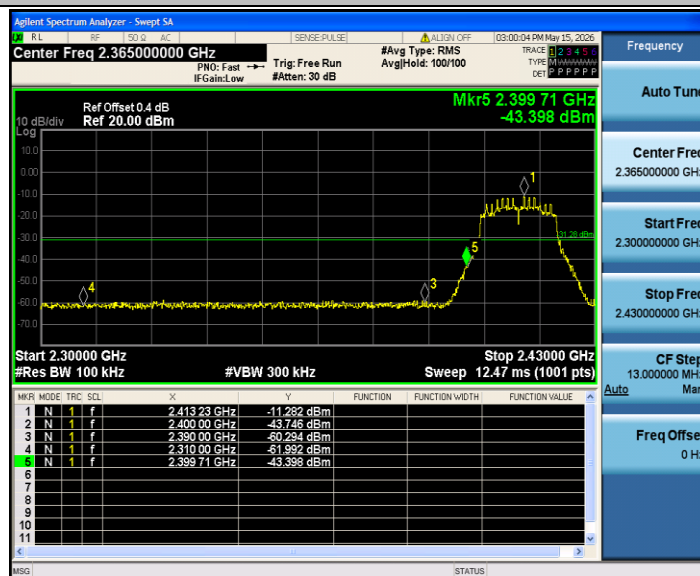
11G_Ant1_Low_2412



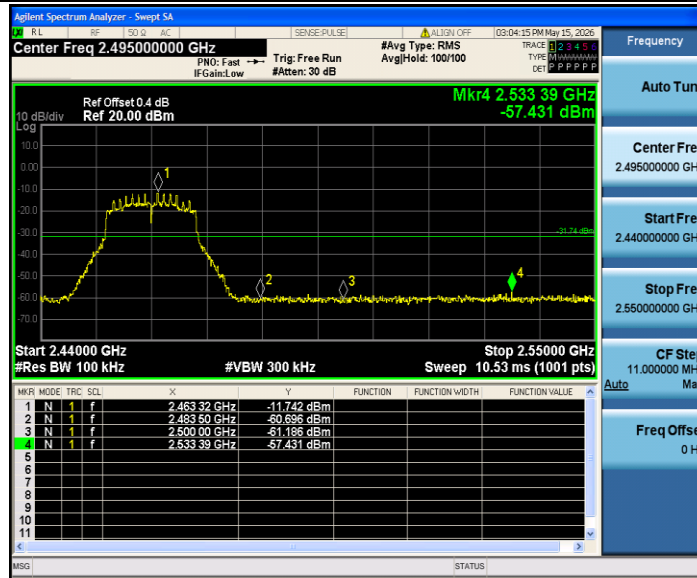
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

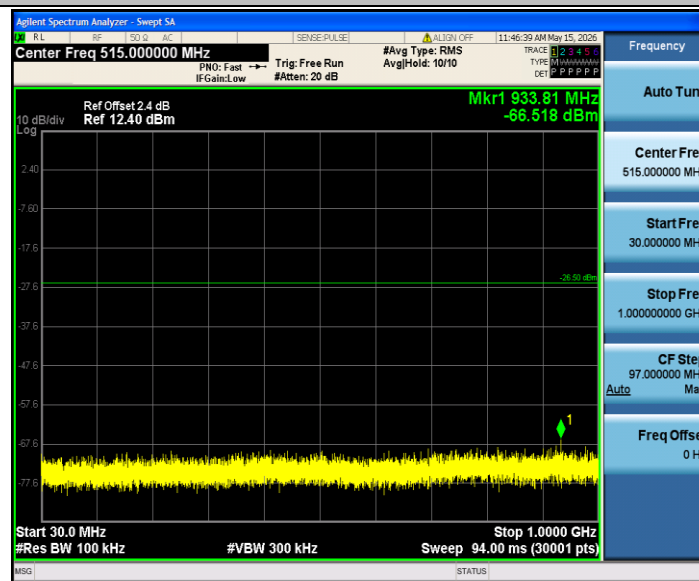
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.50	-6.50	---	PASS
			30~1000	-6.50	-66.52	≤-26.5	PASS
			1000~26500	-6.50	-56.01	≤-26.5	PASS
		2437	Reference	-5.85	-5.85	---	PASS
			30~1000	-5.85	-67.94	≤-25.85	PASS
			1000~26500	-5.85	-55.38	≤-25.85	PASS
		2462	Reference	-5.98	-5.98	---	PASS
			30~1000	-5.98	-68.27	≤-25.98	PASS
			1000~26500	-5.98	-55.54	≤-25.98	PASS
11G	Ant1	2412	Reference	-11.89	-11.89	---	PASS
			30~1000	-11.89	-68.23	≤-31.89	PASS
			1000~26500	-11.89	-55.61	≤-31.89	PASS
		2437	Reference	-11.67	-11.67	---	PASS
			30~1000	-11.67	-66.54	≤-31.67	PASS
			1000~26500	-11.67	-55.83	≤-31.67	PASS
		2462	Reference	-12.06	-12.06	---	PASS
			30~1000	-12.06	-67.32	≤-32.06	PASS
			1000~26500	-12.06	-55.13	≤-32.06	PASS
11N20SISO	Ant1	2412	Reference	-11.26	-11.26	---	PASS
			30~1000	-11.26	-68.46	≤-31.26	PASS
			1000~26500	-11.26	-55.41	≤-31.26	PASS
		2437	Reference	-11.72	-11.72	---	PASS
			30~1000	-11.72	-68.58	≤-31.72	PASS
			1000~26500	-11.72	-55.92	≤-31.72	PASS
		2462	Reference	-12.93	-12.93	---	PASS
			30~1000	-12.93	-67.9	≤-32.93	PASS
			1000~26500	-12.93	-54.19	≤-32.93	PASS

Test Graphs

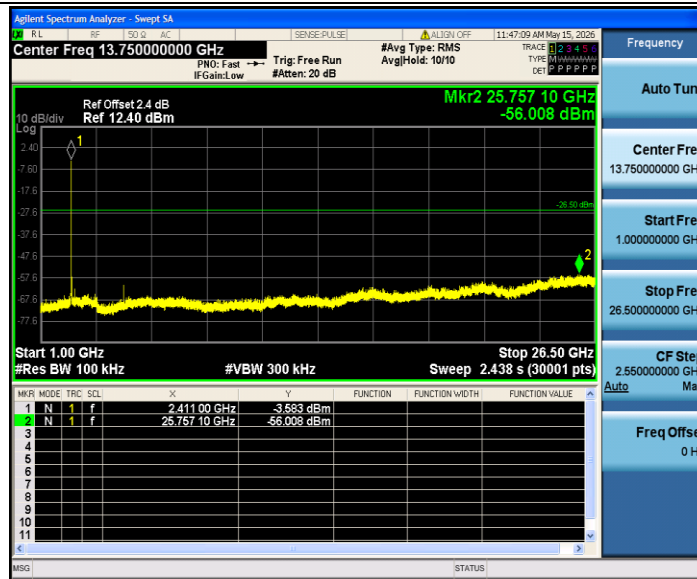
11B_Ant1_2412_0~Reference



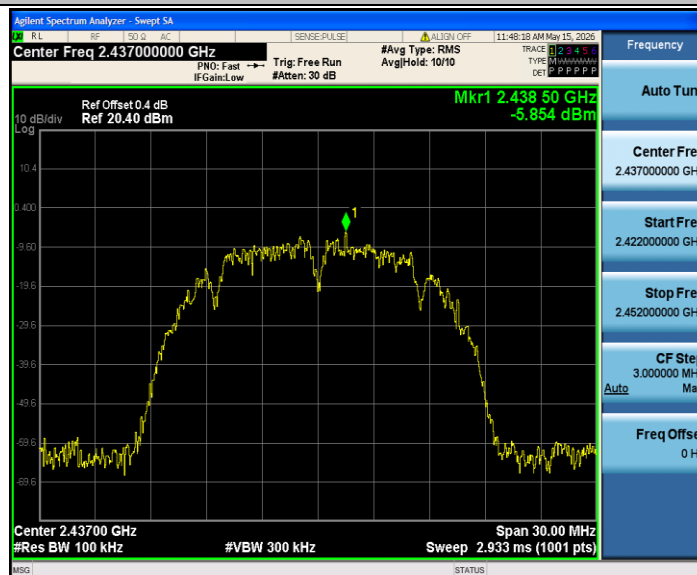
11B_Ant1_2412_30~1000



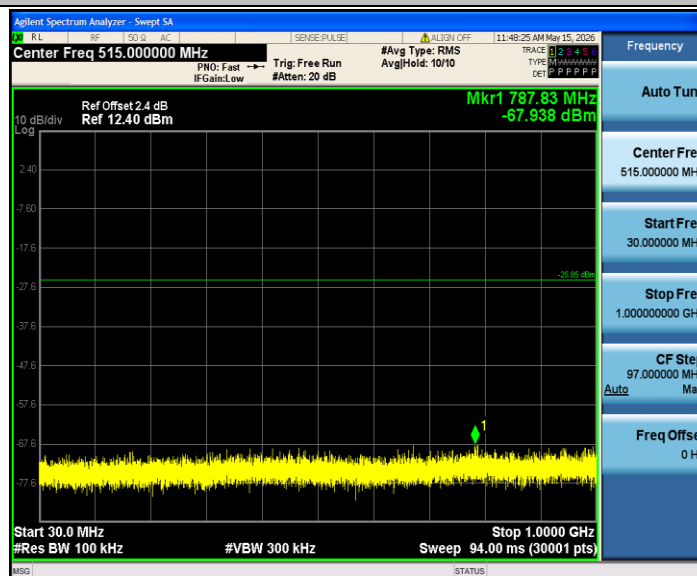
11B_Ant1_2412_1000~26500



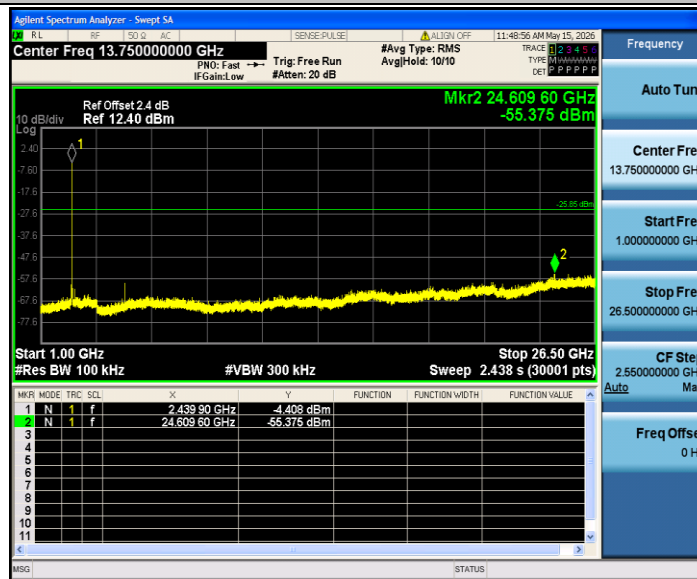
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



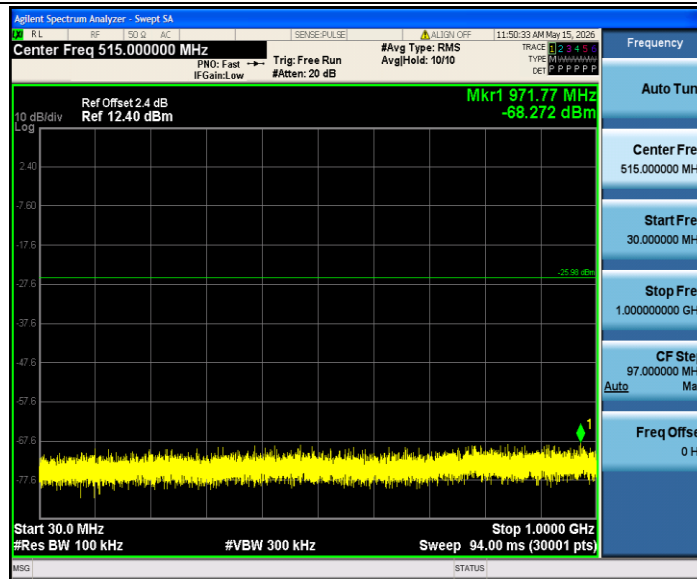
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



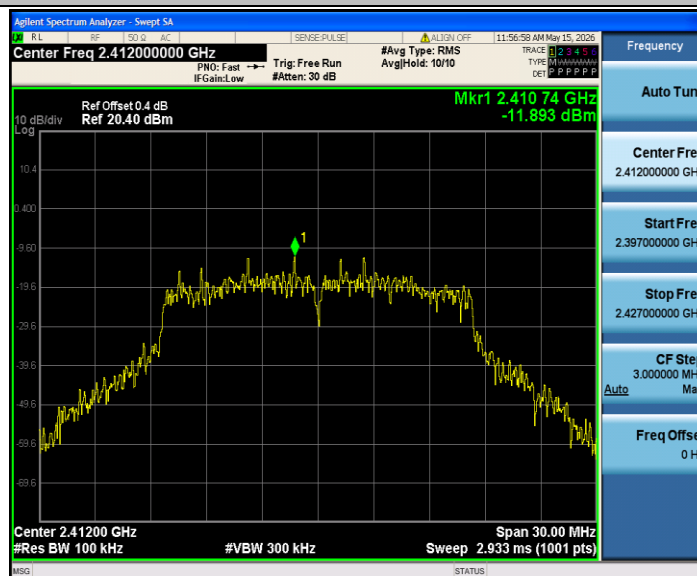
11B_Ant1_2462_30~1000



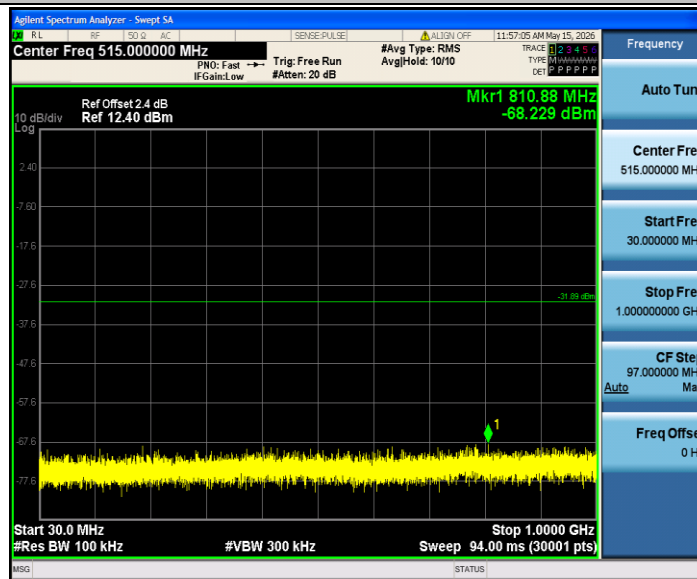
11B_Ant1_2462_1000~26500



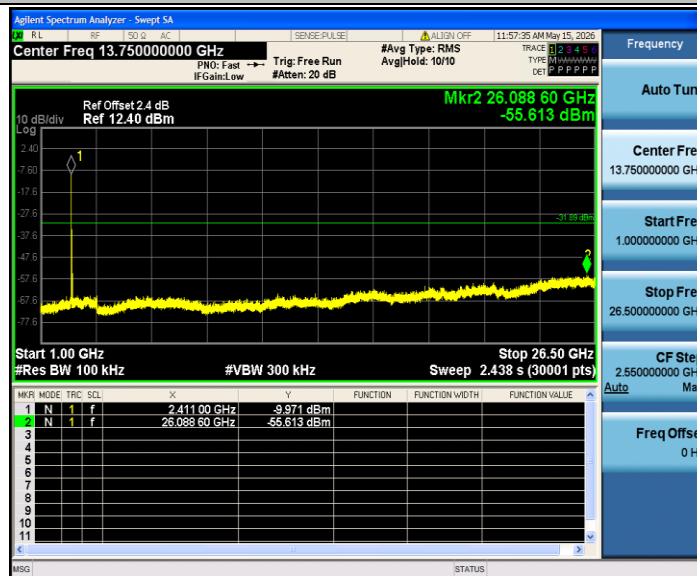
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



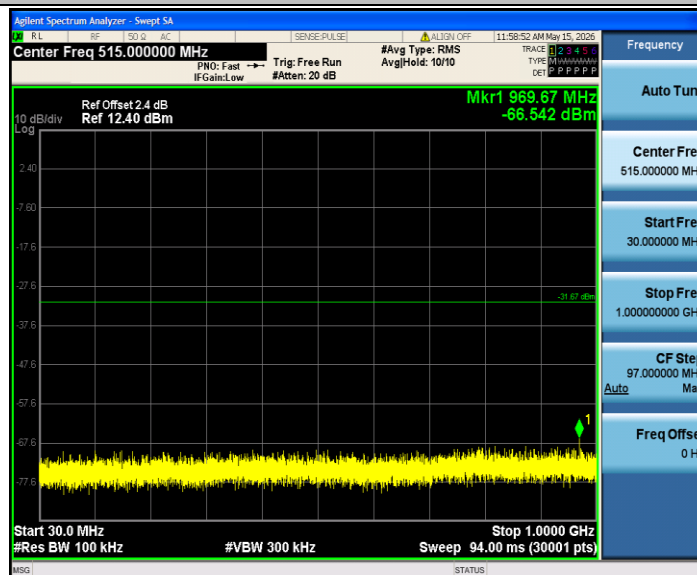
11G_Ant1_2412_1000~26500



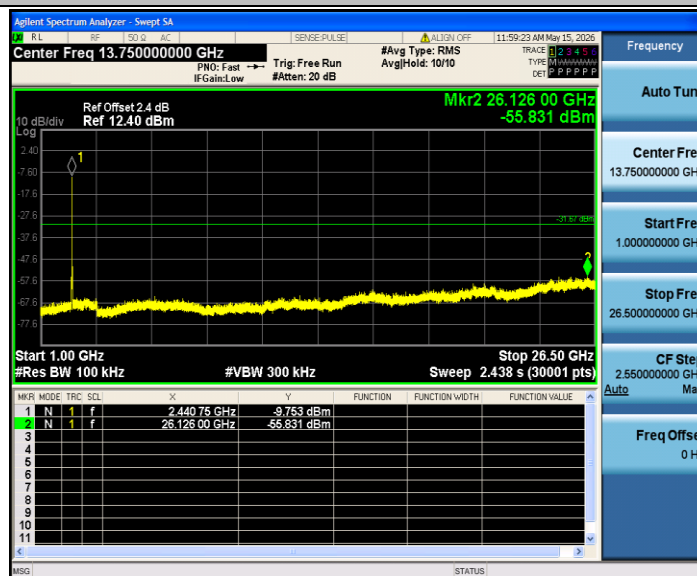
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



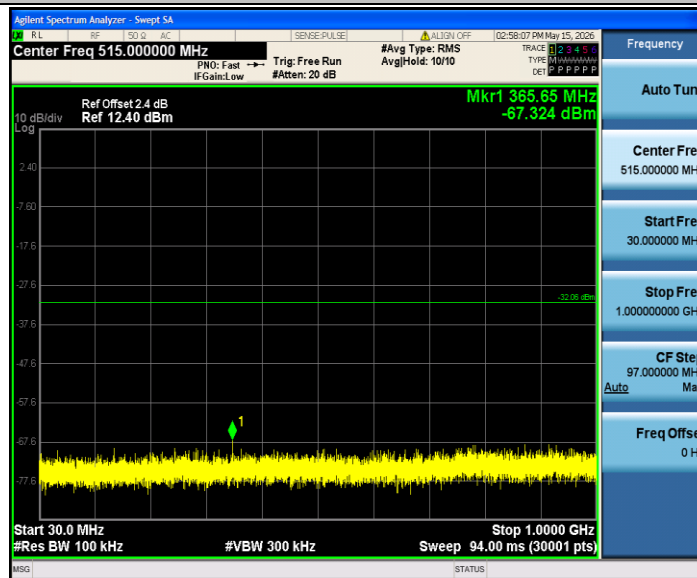
11G_Ant1_2437_1000~26500



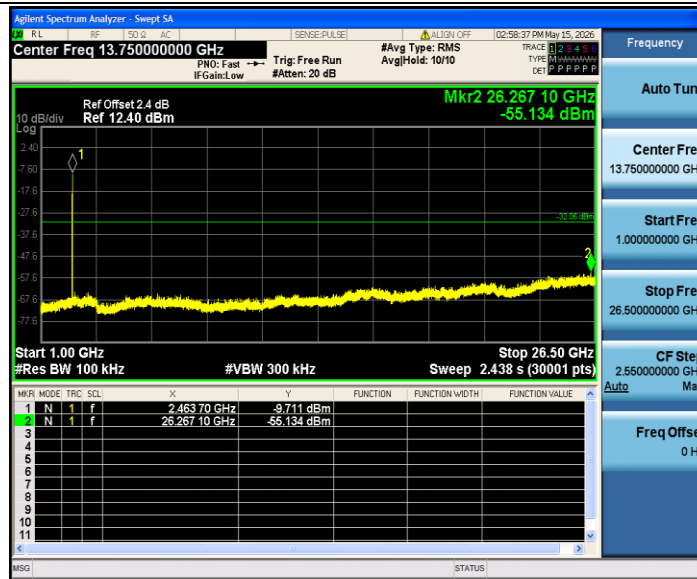
11G_Ant1_2462_0~Reference



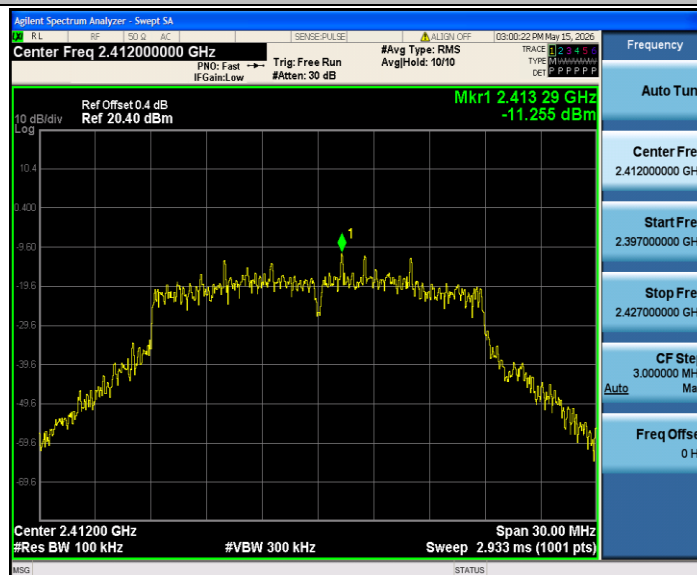
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

