

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BS82-WT09

Company : Shenzhen Yamaxtech Co.,Ltd

EUT : Children Video Walkie Talkie

Model Number : WT09

Report No. : CTA26081400601

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	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.920	2404.040	2419.960	0.5	PASS
		2437	15.480	2429.320	2444.800	0.5	PASS
		2462	15.640	2454.120	2469.760	0.5	PASS
11N20SISO	Ant1	2412	16.440	2403.960	2420.400	0.5	PASS
		2437	16.360	2429.040	2445.400	0.5	PASS
		2462	17.160	2453.440	2470.600	0.5	PASS

Test Graphs

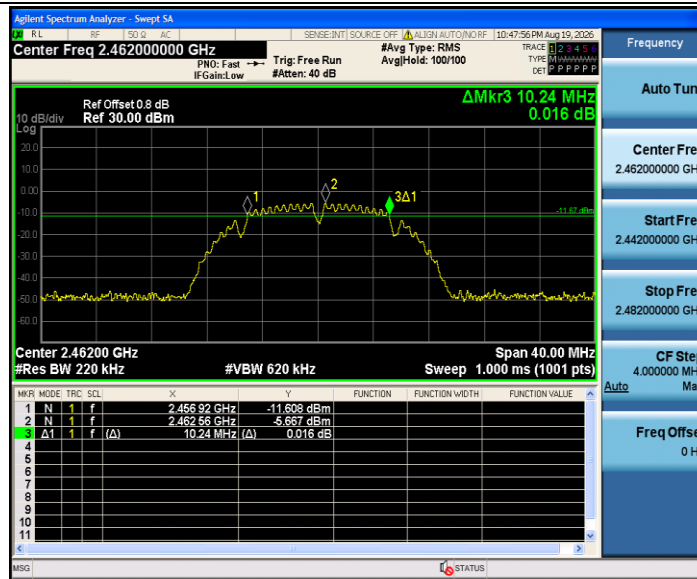
11B_Ant1_2412



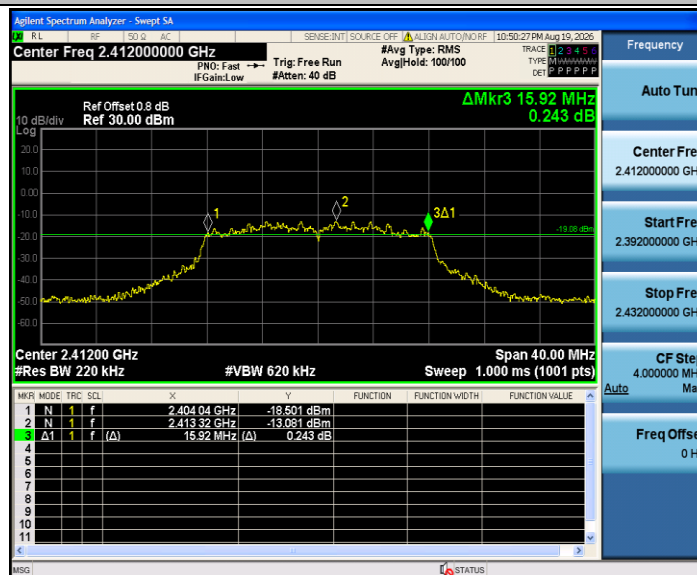
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



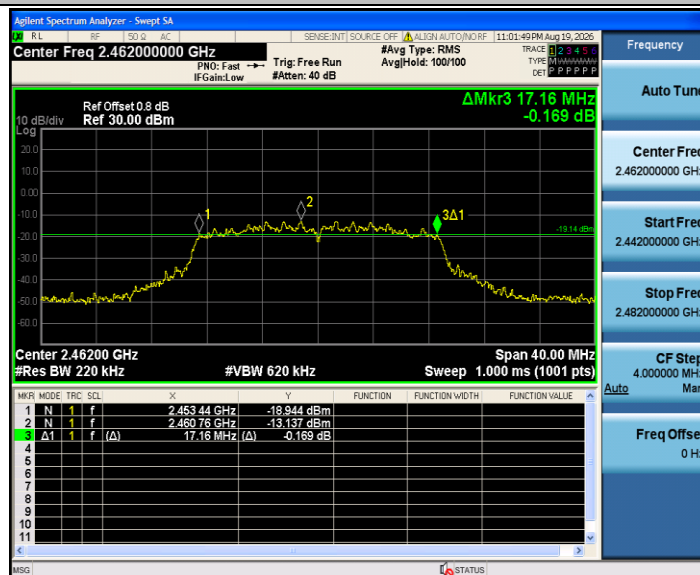
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



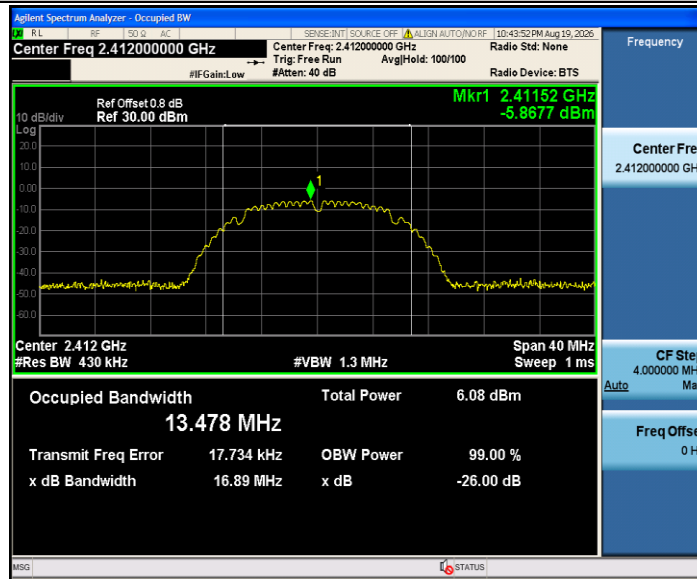
Appendix B: Occupied Channel Bandwidth

Test Result

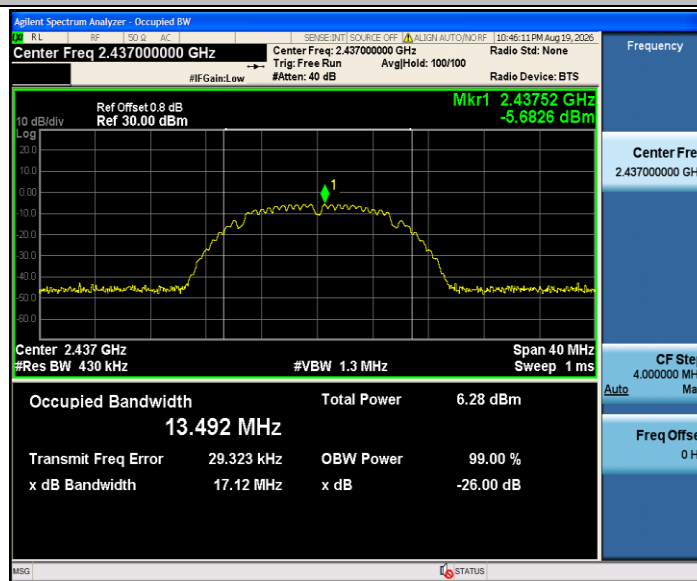
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.478	2405.2787	2418.7567	---	---
		2437	13.492	2430.2833	2443.7753	---	---
		2462	13.485	2455.2932	2468.7782	---	---
11G	Ant1	2412	16.925	2403.5576	2420.4826	---	---
		2437	16.909	2428.6283	2445.5373	---	---
		2462	16.917	2453.5982	2470.5152	---	---
11N20SISO	Ant1	2412	18.023	2403.0020	2421.0250	---	---
		2437	18.070	2427.9721	2446.0421	---	---
		2462	18.004	2453.0447	2471.0487	---	---

Test Graphs

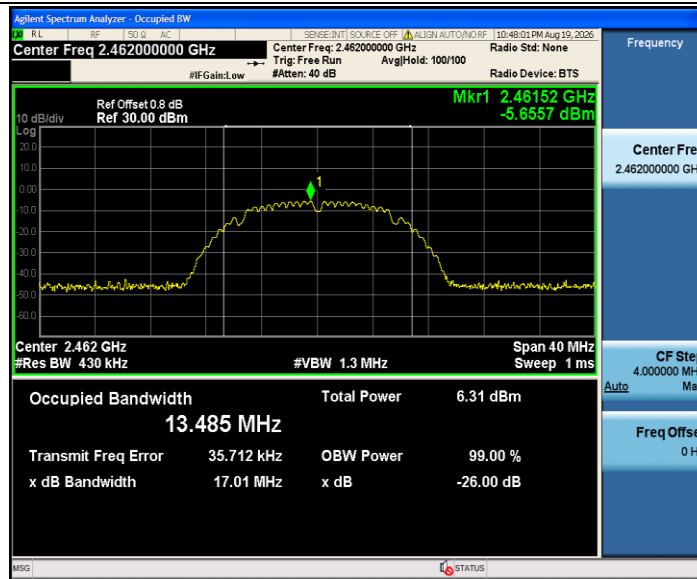
11B_Ant1_2412



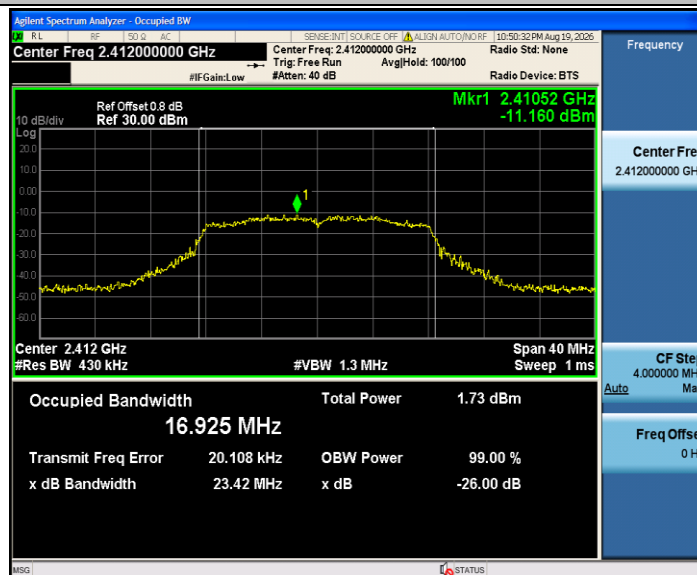
11B_Ant1_2437



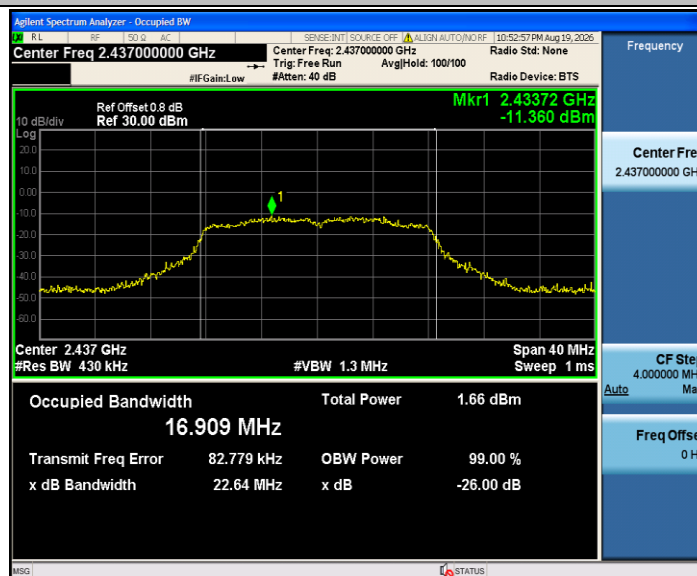
11B_Ant1_2462



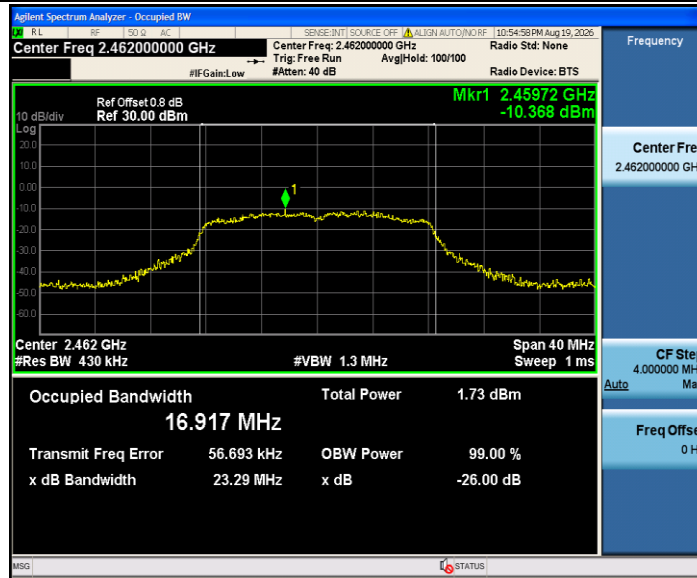
11G_Ant1_2412



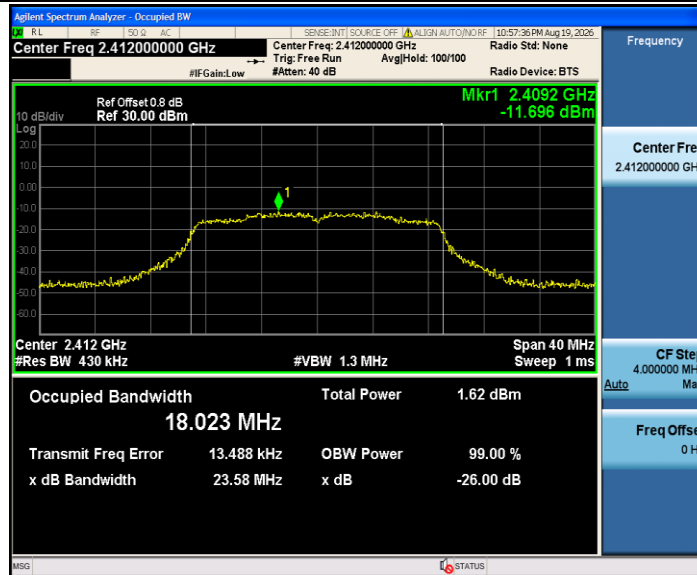
11G_Ant1_2437



11G_Ant1_2462



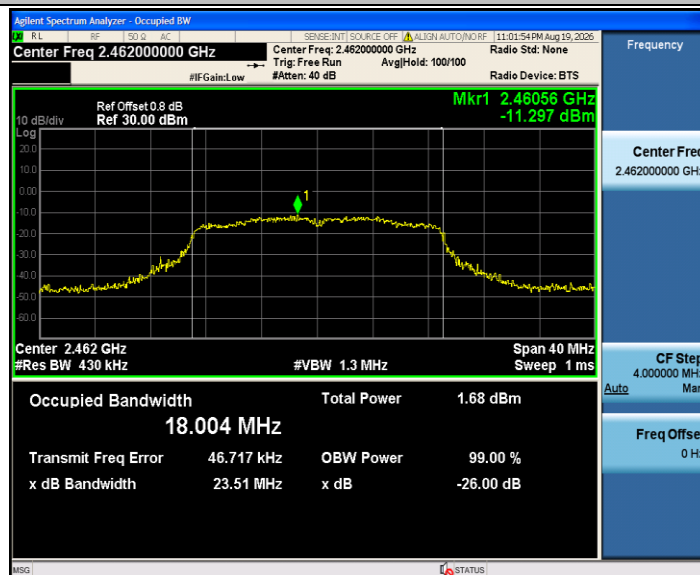
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	5.72	≤30.00	PASS
		2437	5.86	≤30.00	PASS
		2462	5.96	≤30.00	PASS
11G	Ant1	2412	2.66	≤30.00	PASS
		2437	2.50	≤30.00	PASS
		2462	2.64	≤30.00	PASS
11N20SISO	Ant1	2412	2.48	≤30.00	PASS
		2437	2.33	≤30.00	PASS
		2462	2.55	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

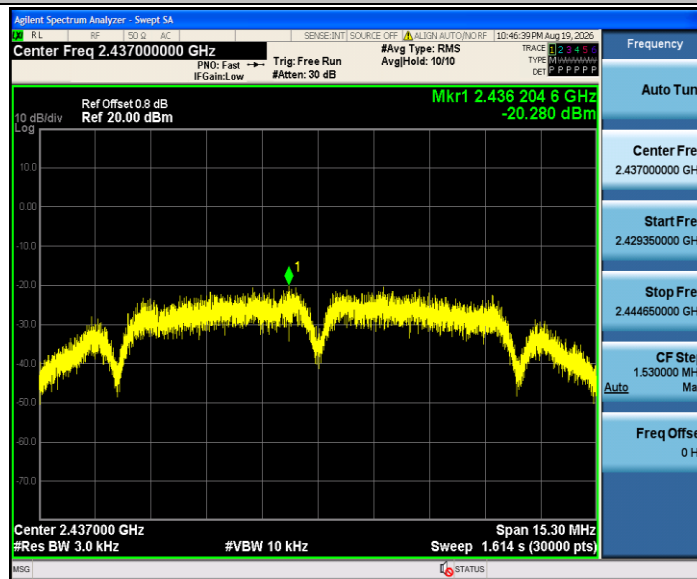
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-20.27	≤8.00	PASS
		2437	-20.28	≤8.00	PASS
		2462	-20.06	≤8.00	PASS
11G	Ant1	2412	-29.23	≤8.00	PASS
		2437	-28.65	≤8.00	PASS
		2462	-29.63	≤8.00	PASS
11N20SISO	Ant1	2412	-28.22	≤8.00	PASS
		2437	-29.18	≤8.00	PASS
		2462	-28.43	≤8.00	PASS

Test Graphs

11B_Ant1_2412



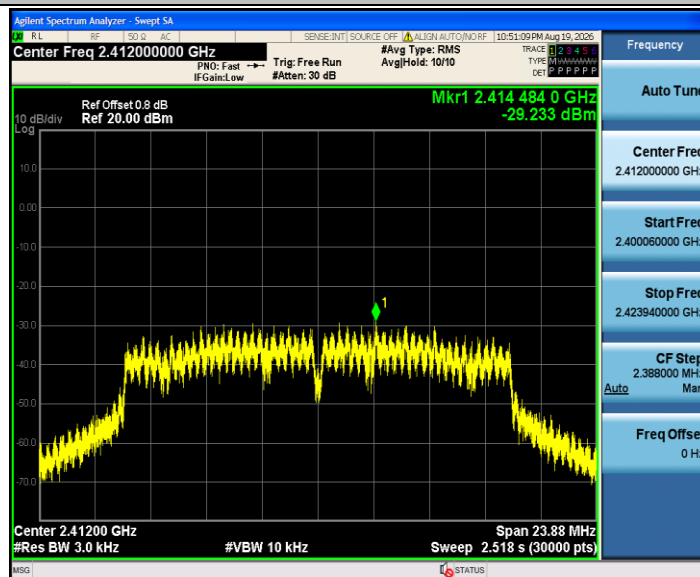
11B_Ant1_2437



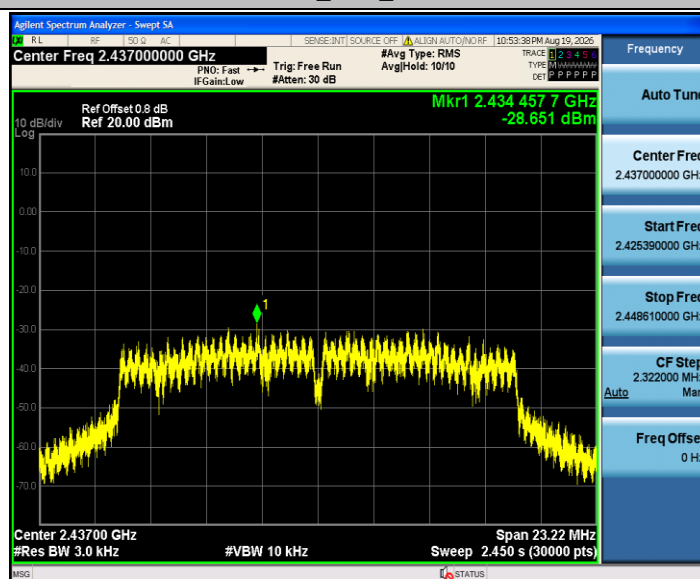
11B_Ant1_2462



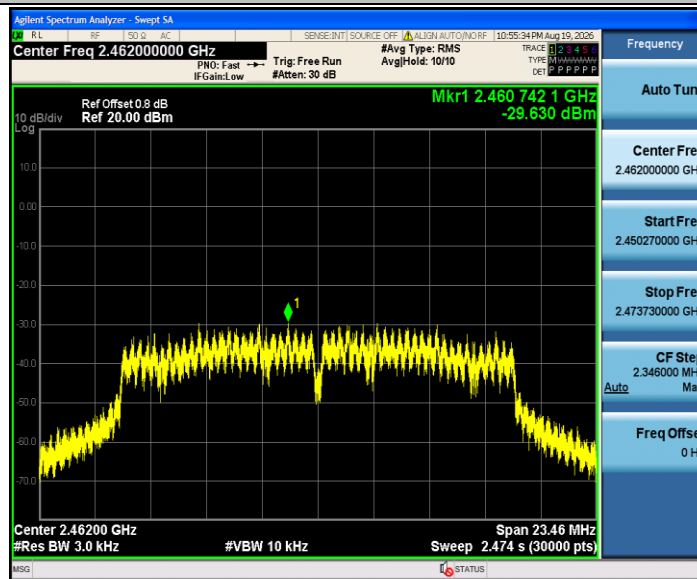
11G_Ant1_2412



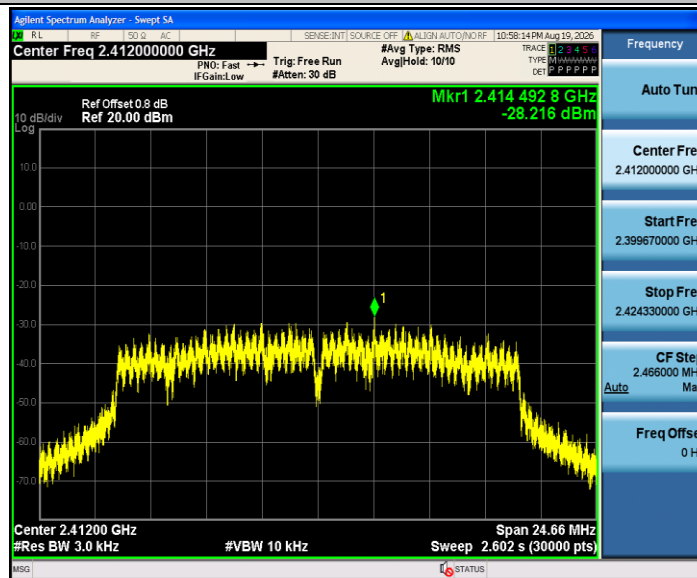
11G_Ant1_2437



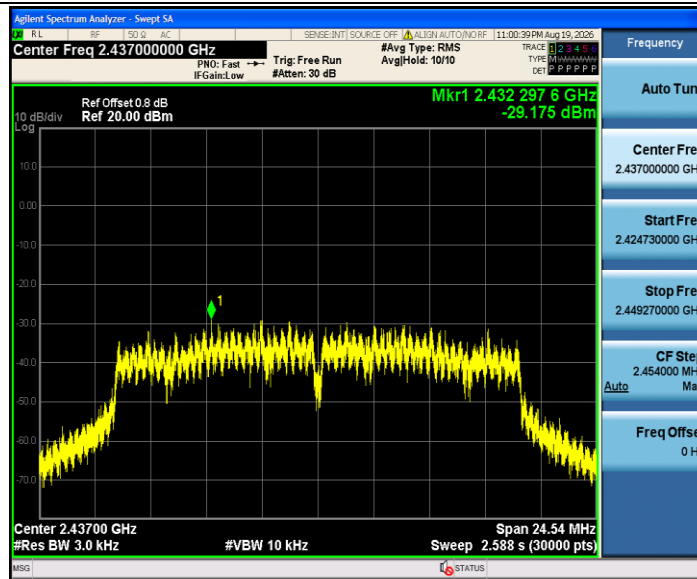
11G_Ant1_2462



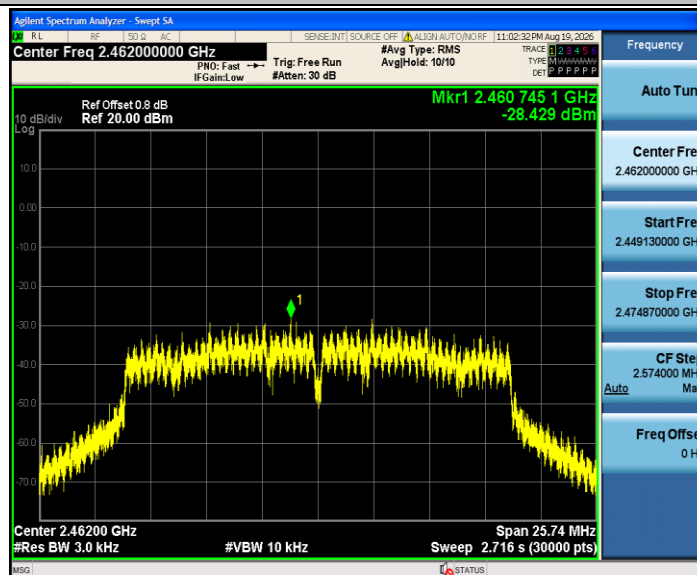
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



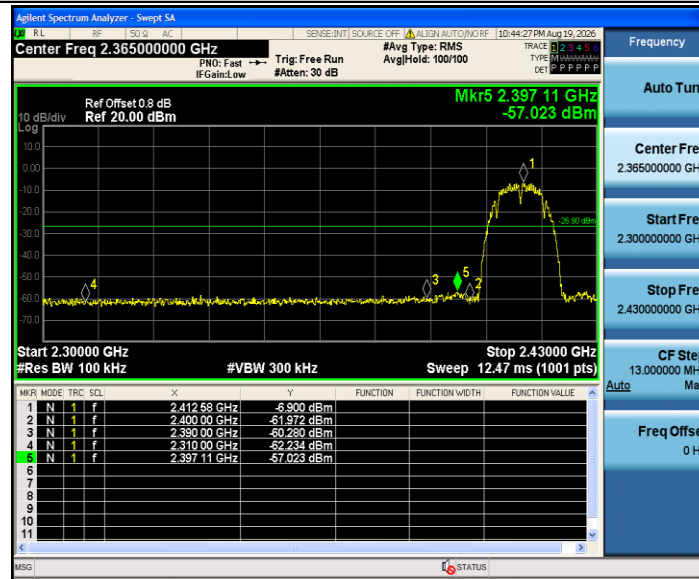
Appendix E: Band edge measurements

Test Result

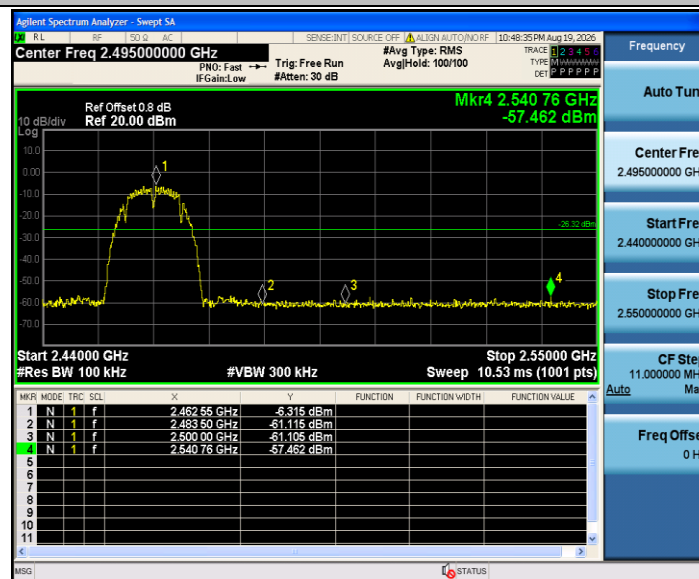
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.90	-57.02	≤-26.9	PASS
		High	2462	-6.32	-57.46	≤-26.32	PASS
11G	Ant1	Low	2412	-13.81	-45.94	≤-33.81	PASS
		High	2462	-13.78	-57.81	≤-33.78	PASS
11N20SISO	Ant1	Low	2412	-14.20	-44.63	≤-34.2	PASS
		High	2462	-14.14	-58.06	≤-34.14	PASS

Test Graphs

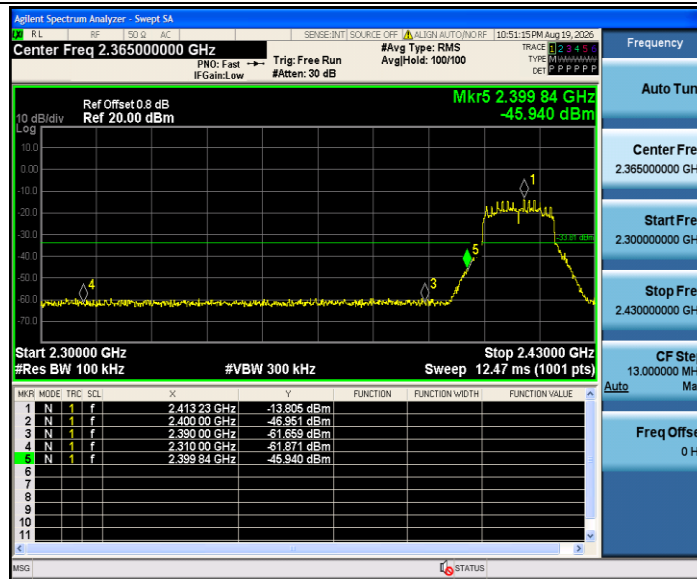
11B_Ant1_Low_2412



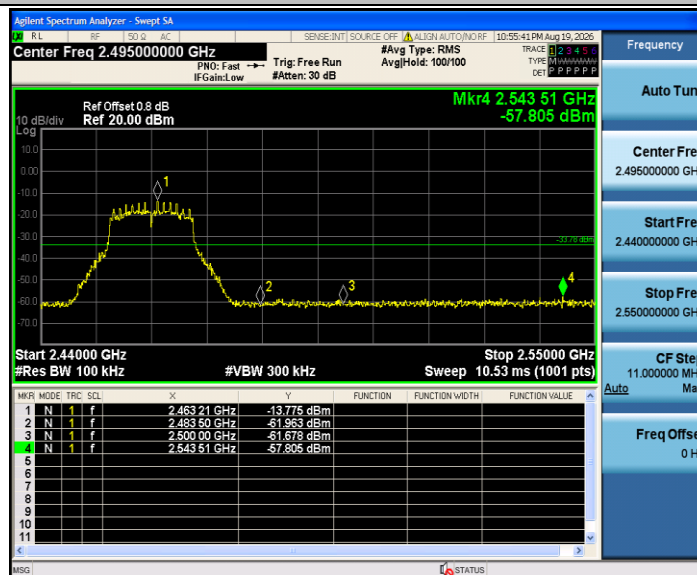
11B_Ant1_High_2462



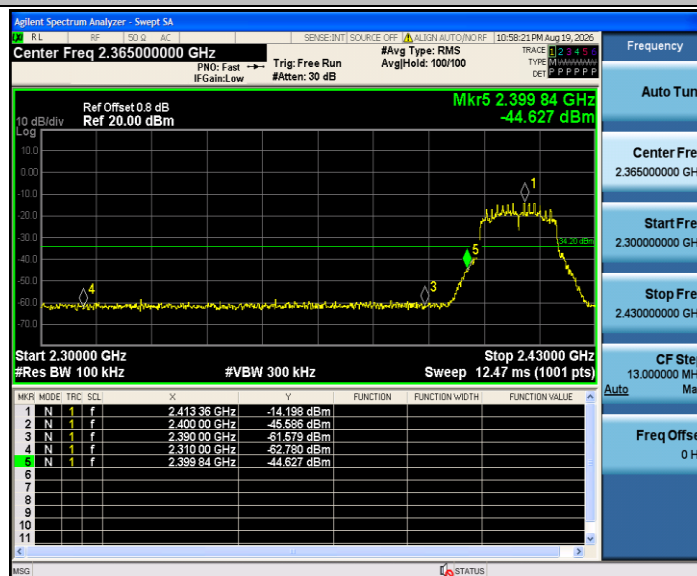
11G_Ant1_Low_2412



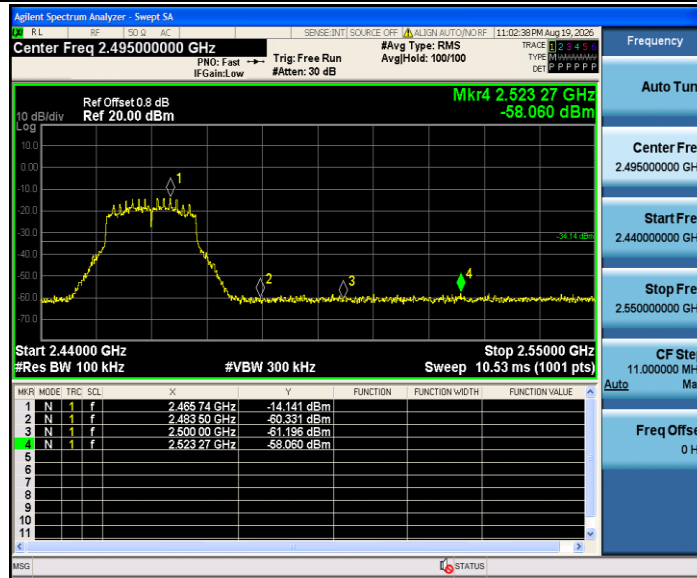
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

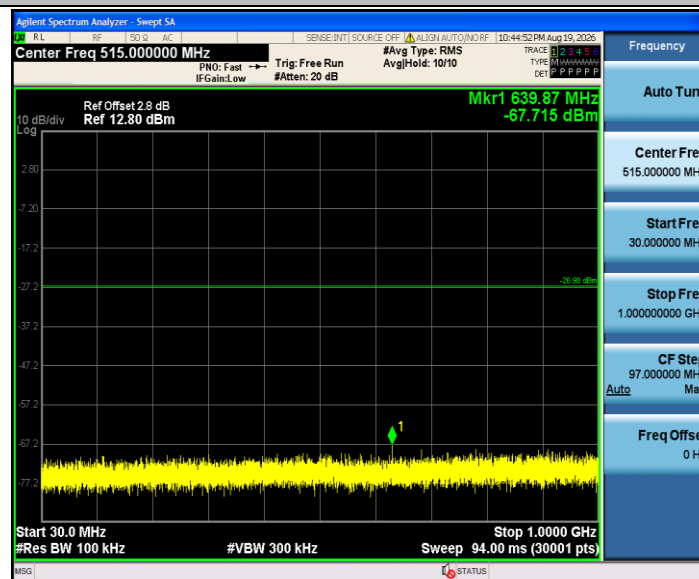
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.98	-6.98	---	PASS
			30~1000	-6.98	-67.72	≤-26.98	PASS
			1000~26500	-6.98	-46.62	≤-26.98	PASS
		2437	Reference	-7.29	-7.29	---	PASS
			30~1000	-7.29	-67.71	≤-27.29	PASS
			1000~26500	-7.29	-46.86	≤-27.29	PASS
		2462	Reference	-6.66	-6.66	---	PASS
			30~1000	-6.66	-68	≤-26.66	PASS
			1000~26500	-6.66	-47.1	≤-26.66	PASS
11G	Ant1	2412	Reference	-14.61	-14.61	---	PASS
			30~1000	-14.61	-66.83	≤-34.61	PASS
			1000~26500	-14.61	-46.32	≤-34.61	PASS
		2437	Reference	-15.13	-15.13	---	PASS
			30~1000	-15.13	-68.69	≤-35.13	PASS
			1000~26500	-15.13	-46.38	≤-35.13	PASS
		2462	Reference	-14.13	-14.13	---	PASS
			30~1000	-14.13	-68.07	≤-34.13	PASS
			1000~26500	-14.13	-46.44	≤-34.13	PASS
11N20SISO	Ant1	2412	Reference	-14.43	-14.43	---	PASS
			30~1000	-14.43	-68.3	≤-34.43	PASS
			1000~26500	-14.43	-45.85	≤-34.43	PASS
		2437	Reference	-14.70	-14.70	---	PASS
			30~1000	-14.70	-68.64	≤-34.7	PASS
			1000~26500	-14.70	-46.13	≤-34.7	PASS
		2462	Reference	-14.37	-14.37	---	PASS
			30~1000	-14.37	-67.88	≤-34.37	PASS
			1000~26500	-14.37	-46.68	≤-34.37	PASS

Test Graphs

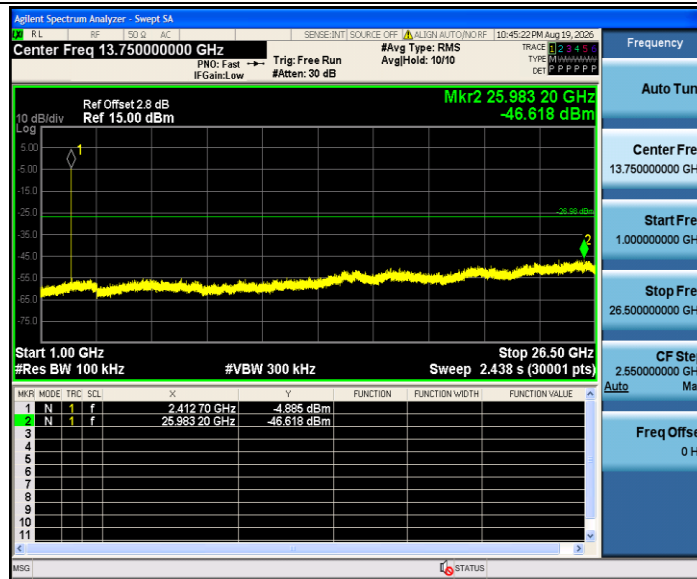
11B_Ant1_2412_0~Reference



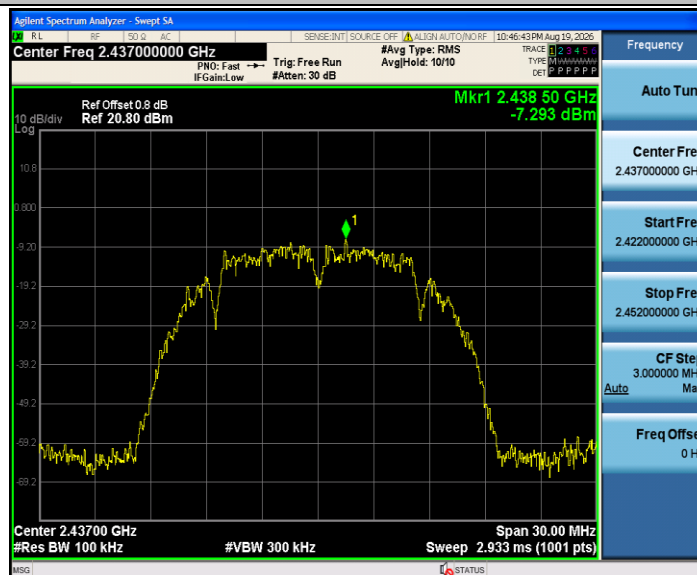
11B_Ant1_2412_30~1000



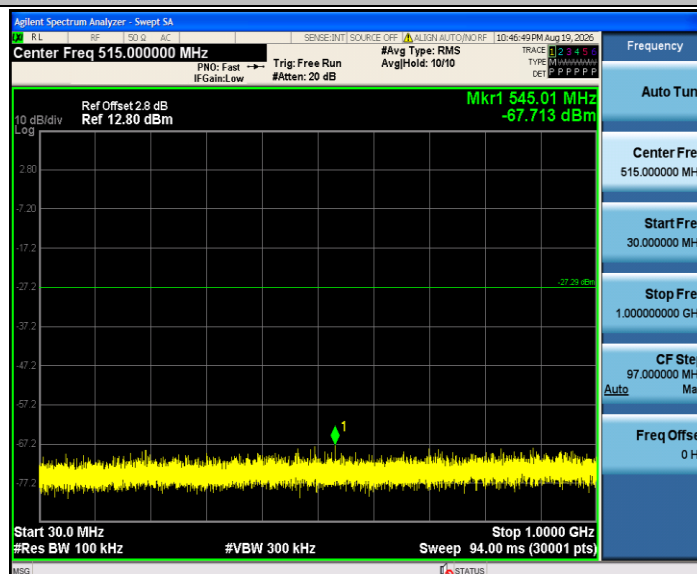
11B_Ant1_2412_1000~26500



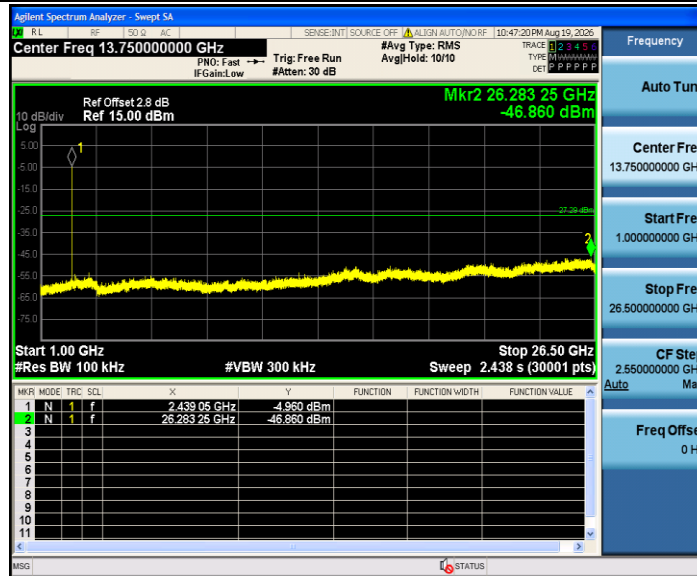
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



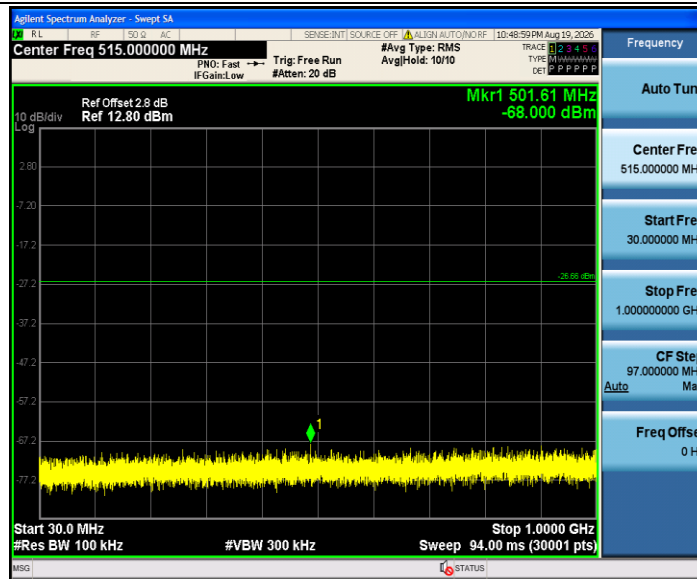
11B_Ant1_2437_1000~26500



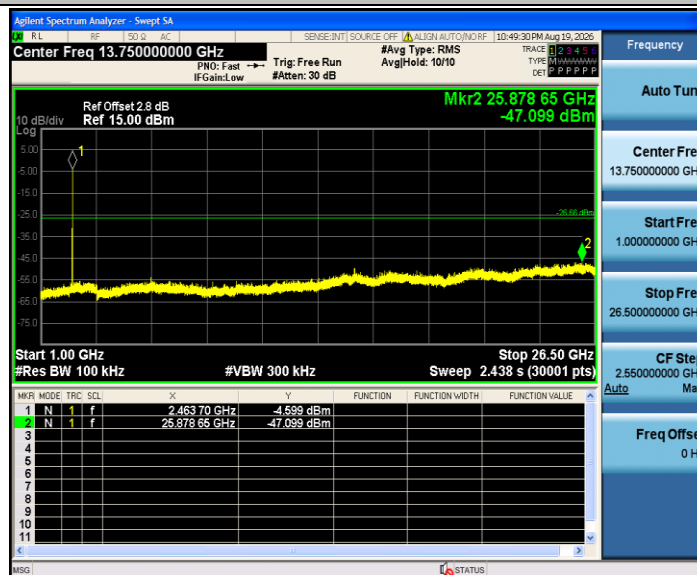
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



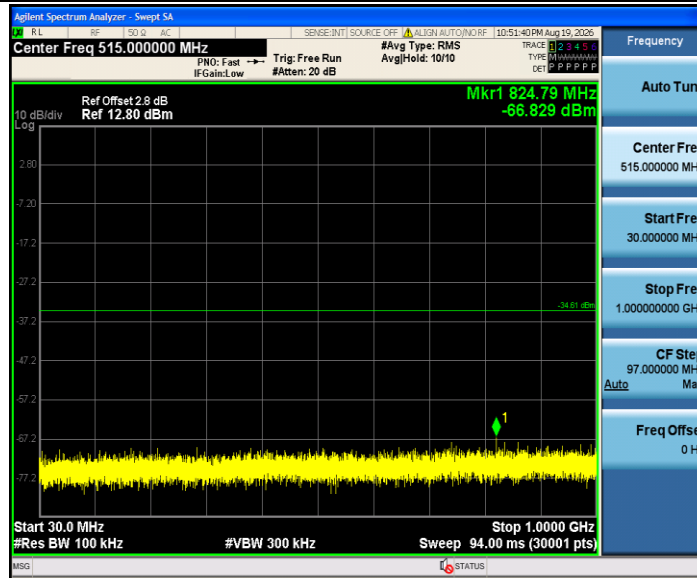
11B_Ant1_2462_1000~26500



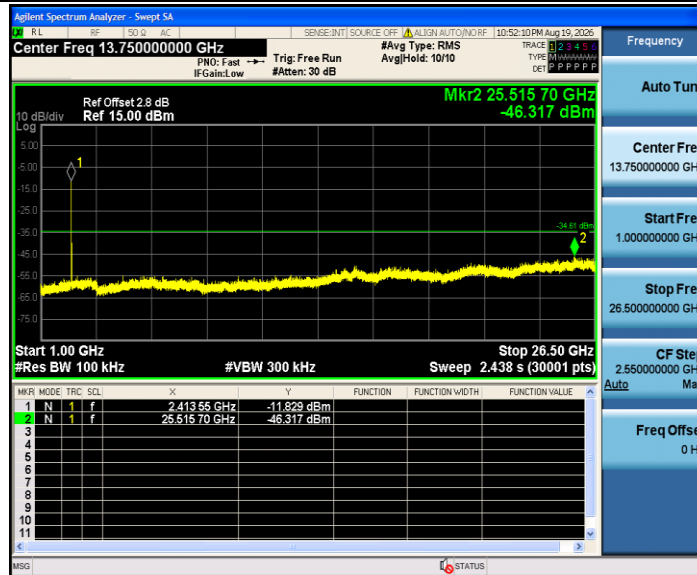
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



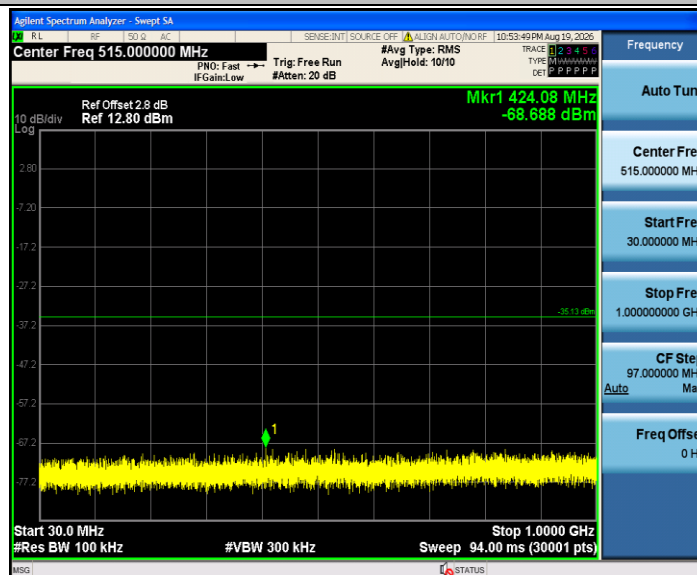
11G_Ant1_2412_1000~26500



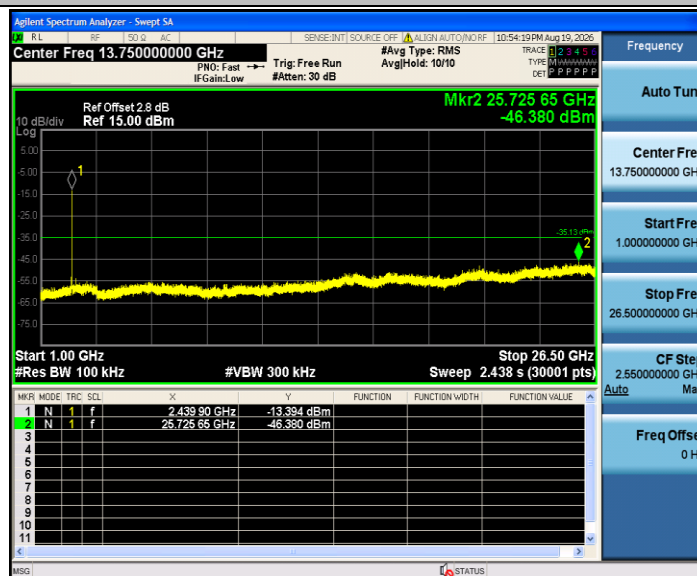
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



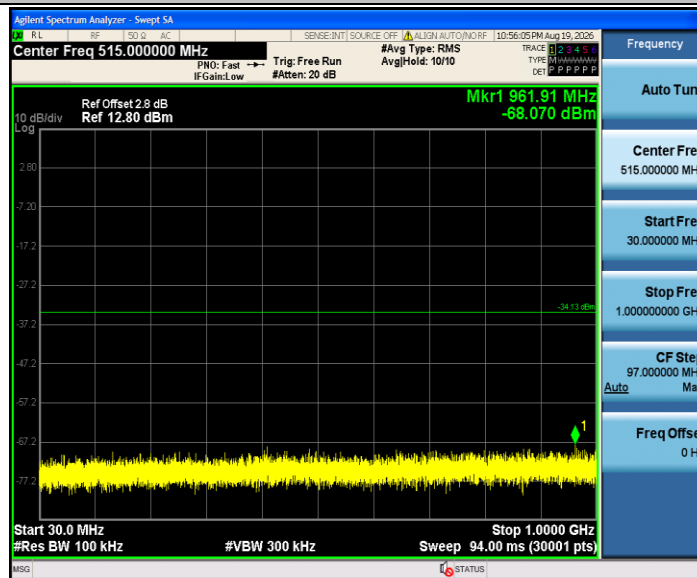
11G_Ant1_2437_1000~26500



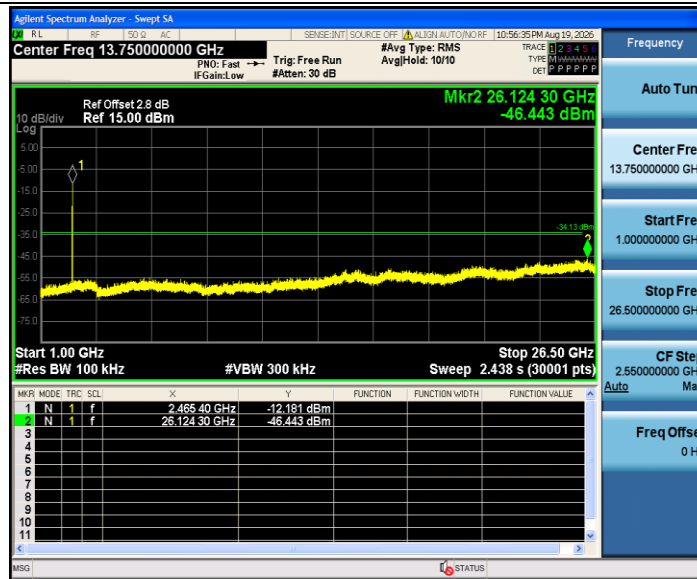
11G_Ant1_2462_0~Reference



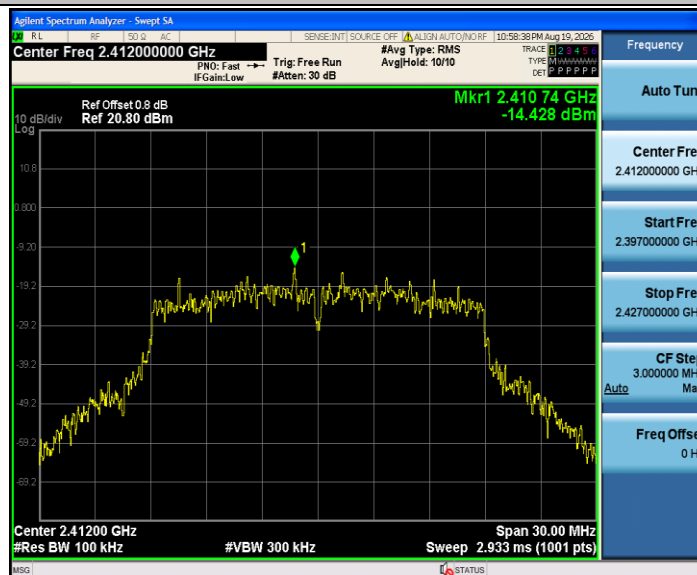
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

