

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BTF6-Y07

Company : Shenzhen Woolkom Industry Co.,Ltd

EUT : CAR DASH CAM

Model Number : Y07

Report No. : CTA25112401001

Reviewed By : Eric Wang

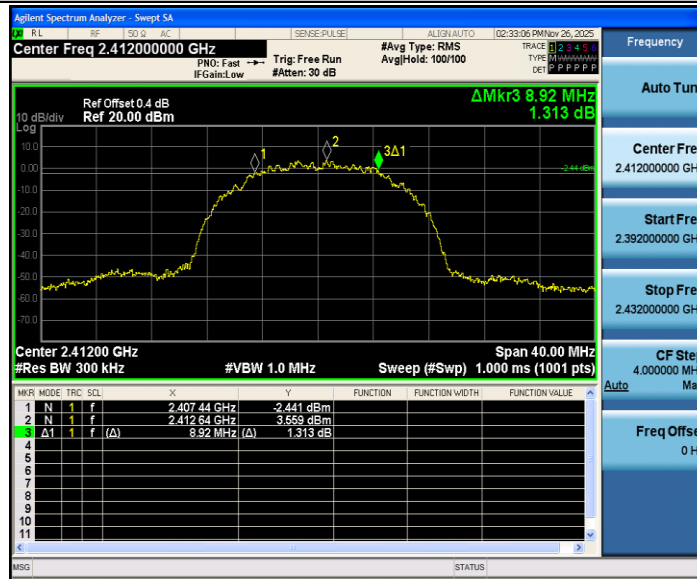
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.920	2407.440	2416.360	0.5	PASS
		2437	8.800	2432.520	2441.320	0.5	PASS
		2462	8.800	2457.520	2466.320	0.5	PASS
11G	Ant1	2412	16.400	2403.880	2420.280	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.240	2453.960	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.440	2420.760	0.5	PASS
		2437	17.280	2428.440	2445.720	0.5	PASS
		2462	17.160	2453.360	2470.520	0.5	PASS
11N40SISO	Ant1	2422	34.320	2405.040	2439.360	0.5	PASS
		2437	34.000	2420.120	2454.120	0.5	PASS
		2452	33.840	2435.200	2469.040	0.5	PASS

Test Graphs

11B_Ant1_2412



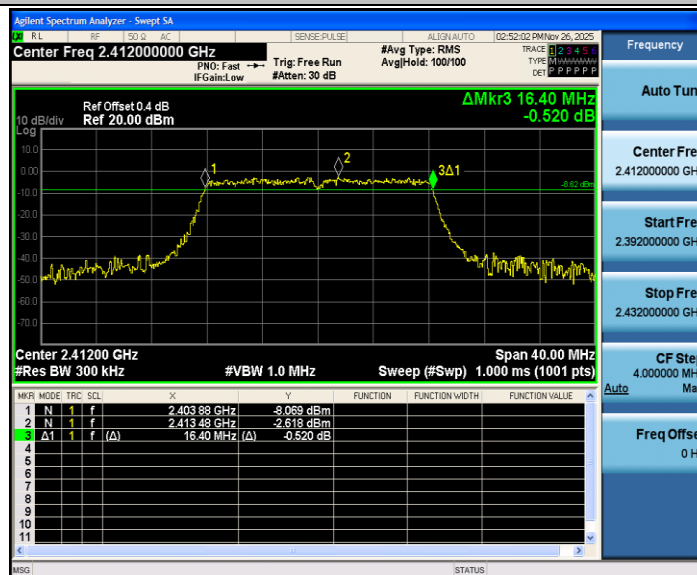
11B_Ant1_2437



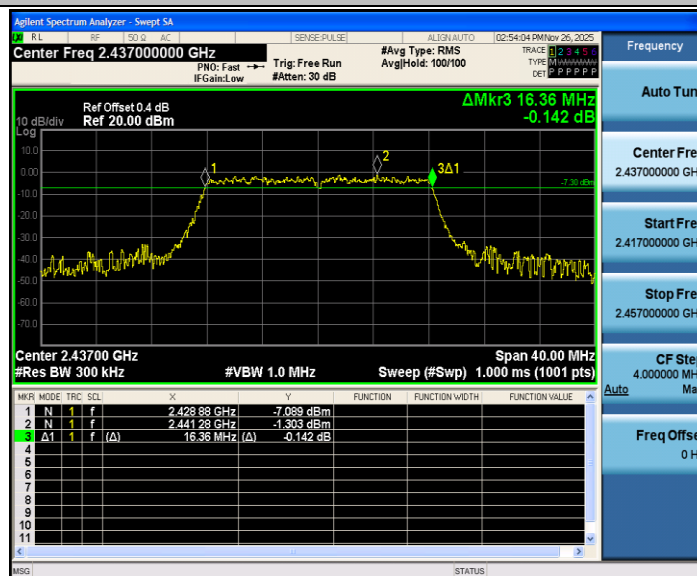
11B_Ant1_2462



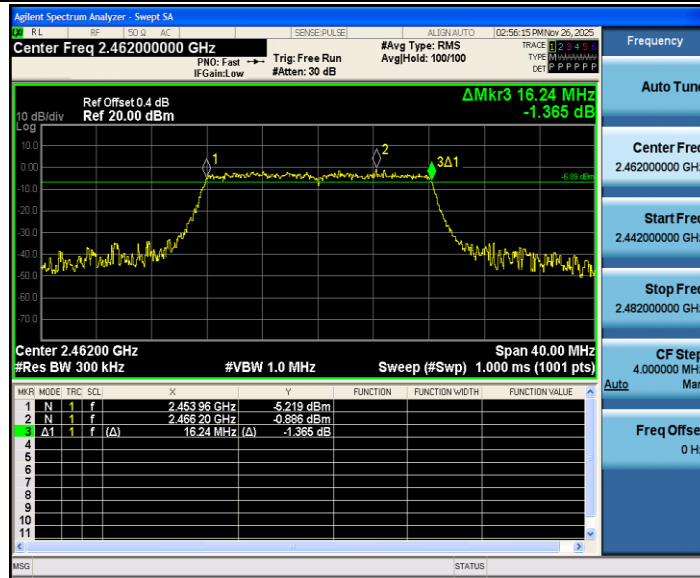
11G_Ant1_2412



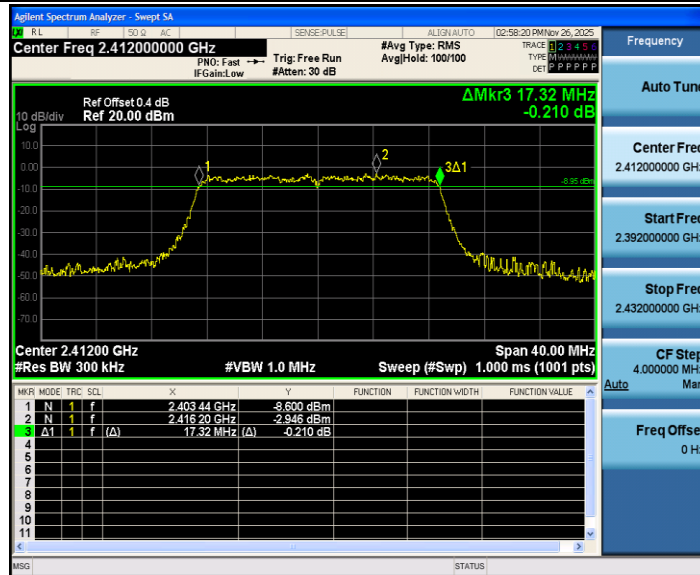
11G_Ant1_2437



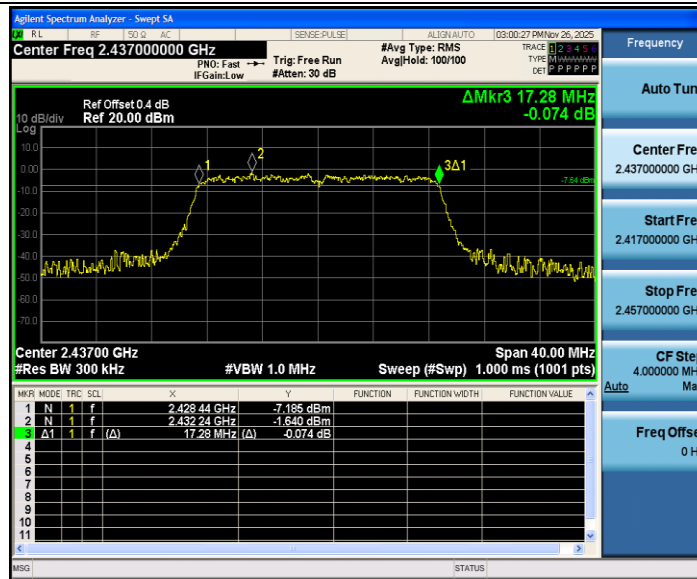
11G_Ant1_2462



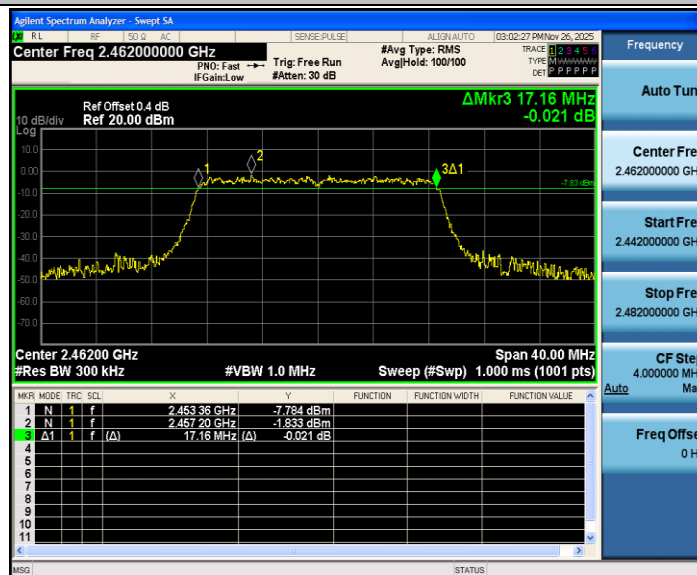
11N20SISO_Ant1_2412



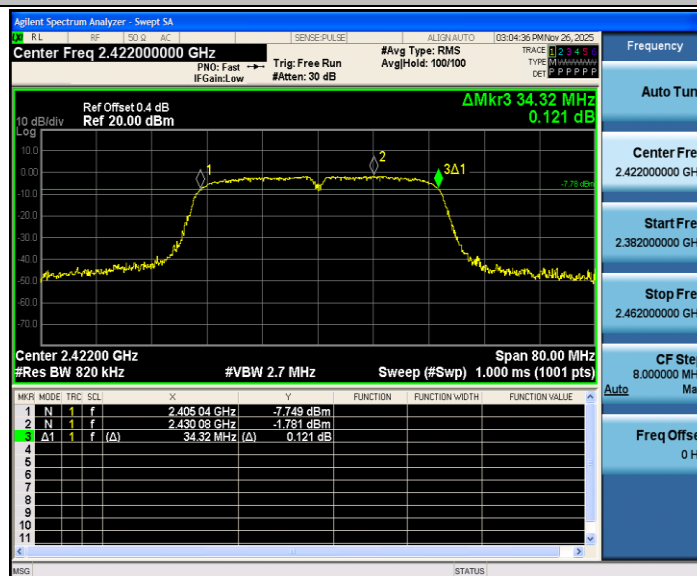
11N20SISO_Ant1_2437



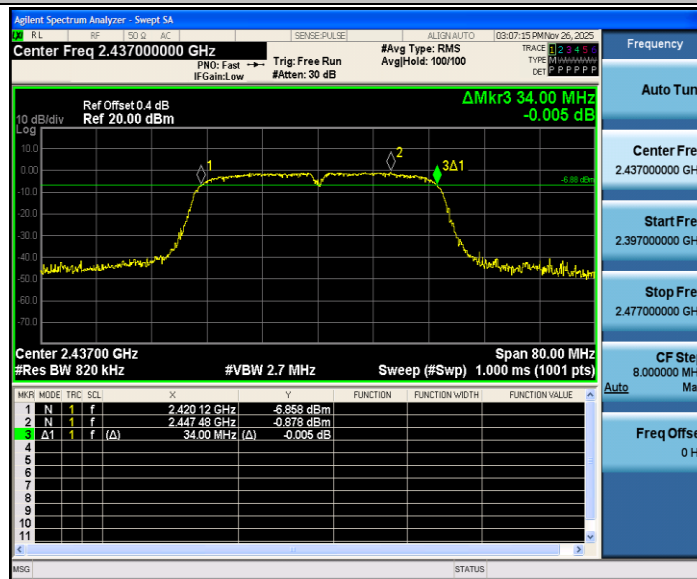
11N20SISO_Ant1_2462



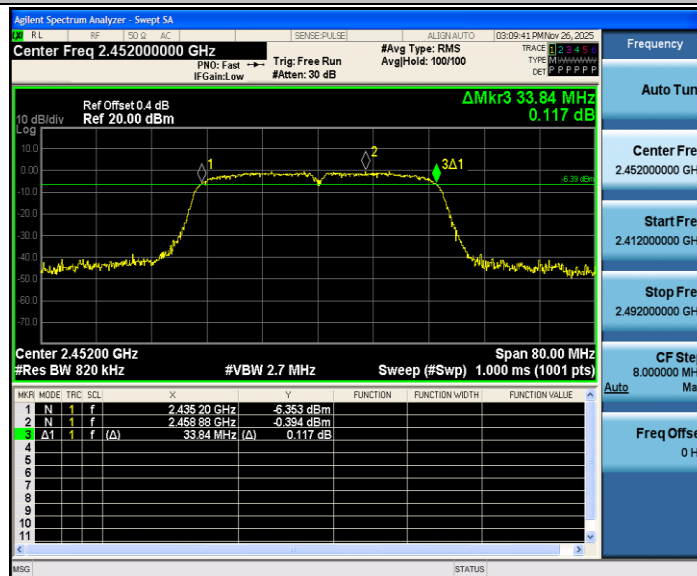
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



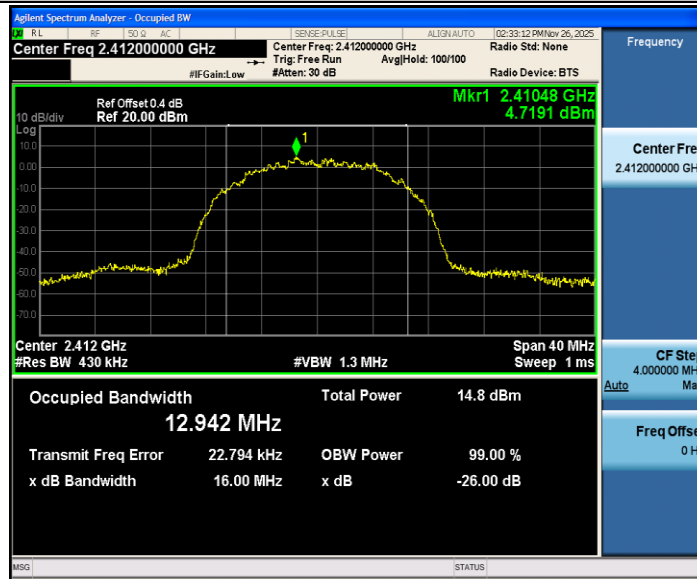
Appendix B: Occupied Channel Bandwidth

Test Result

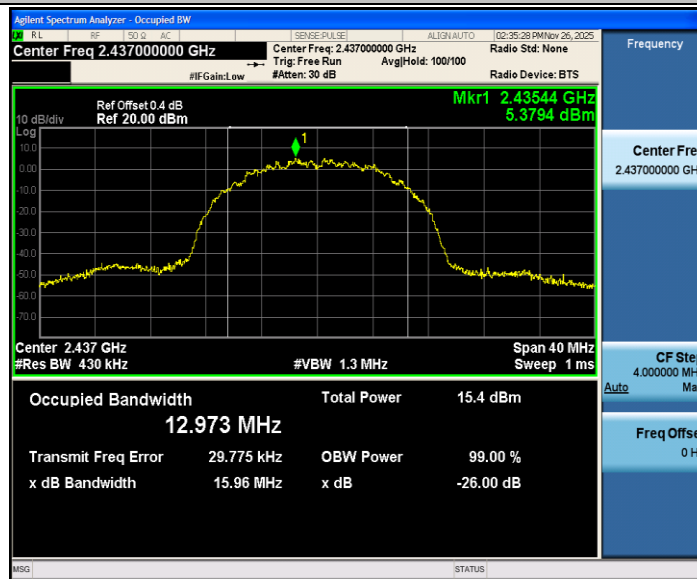
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.942	2405.5518	2418.4938	---	---
		2437	12.973	2430.5433	2443.5163	---	---
		2462	13.000	2455.4935	2468.4935	---	---
11G	Ant1	2412	16.621	2403.7223	2420.3433	---	---
		2437	16.581	2428.7488	2445.3298	---	---
		2462	16.593	2453.7307	2470.3237	---	---
11N20SISO	Ant1	2412	17.460	2403.3219	2420.7819	---	---
		2437	17.429	2428.3286	2445.7576	---	---
		2462	17.462	2453.3057	2470.7677	---	---
11N40SISO	Ant1	2422	34.848	2404.7700	2439.6180	---	---
		2437	34.802	2419.7540	2454.5560	---	---
		2452	34.804	2434.7382	2469.5422	---	---

Test Graphs

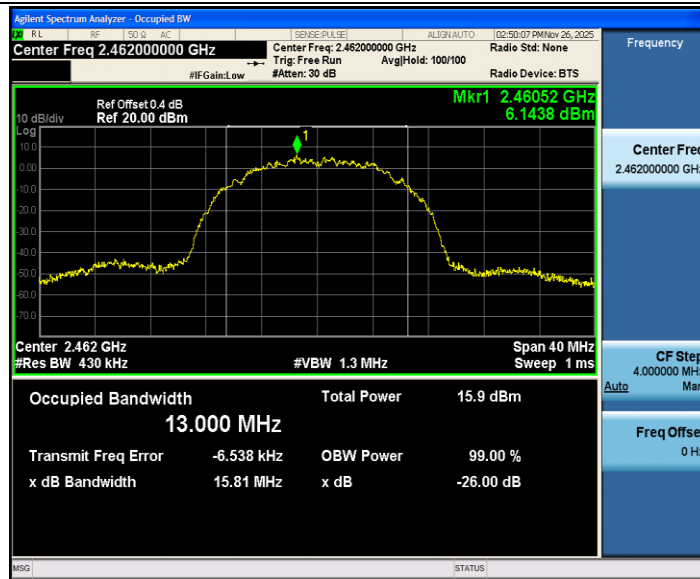
11B_Ant1_2412



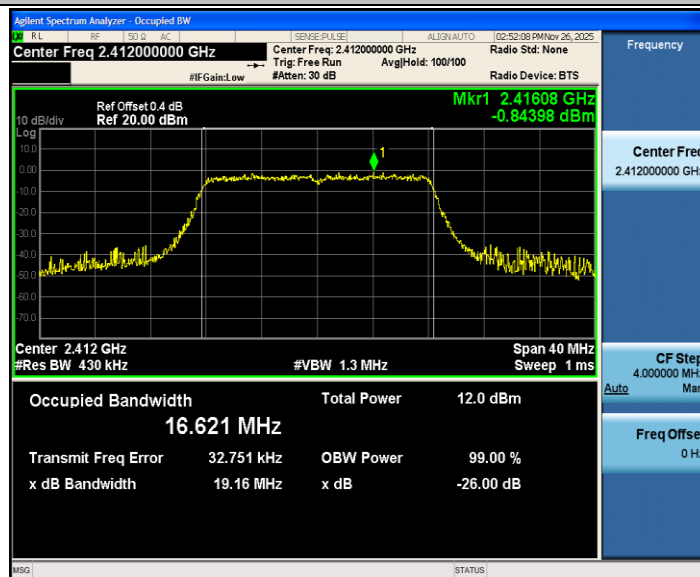
11B_Ant1_2437



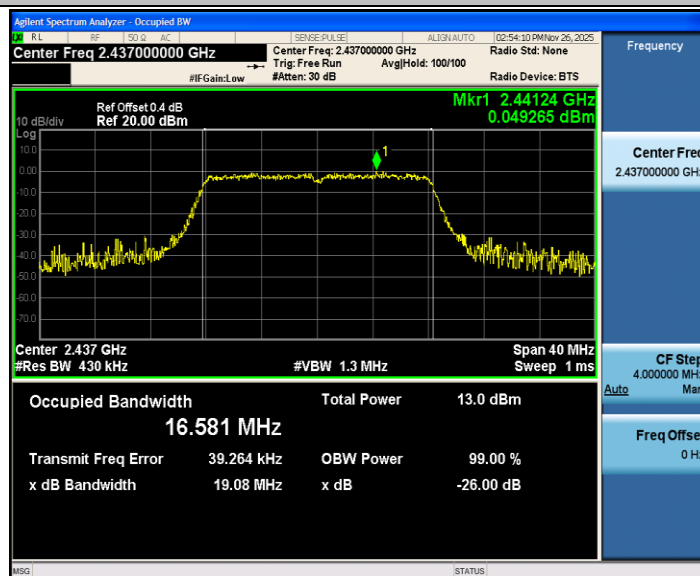
11B_Ant1_2462



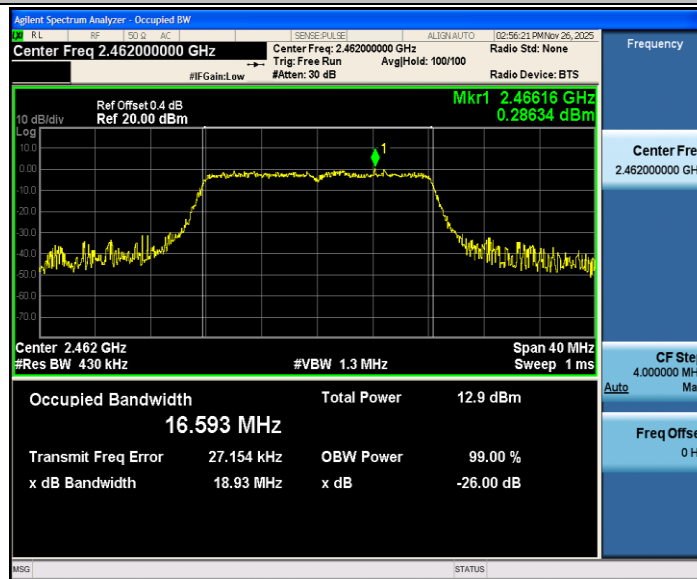
11G_Ant1_2412



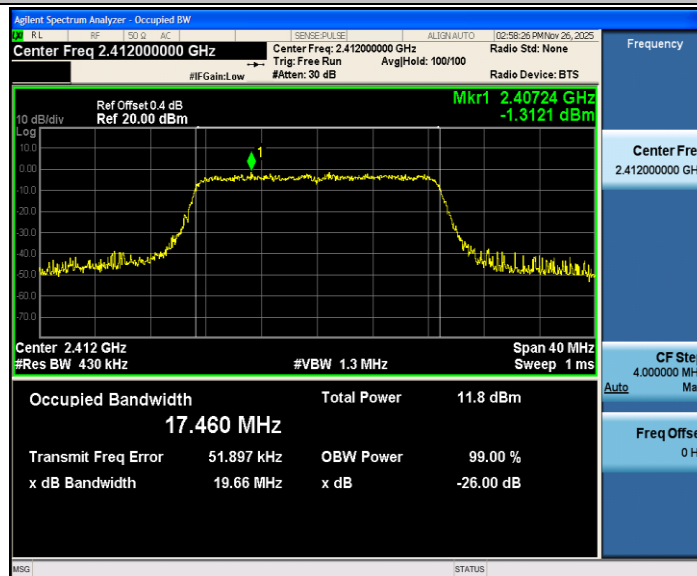
11G_Ant1_2437



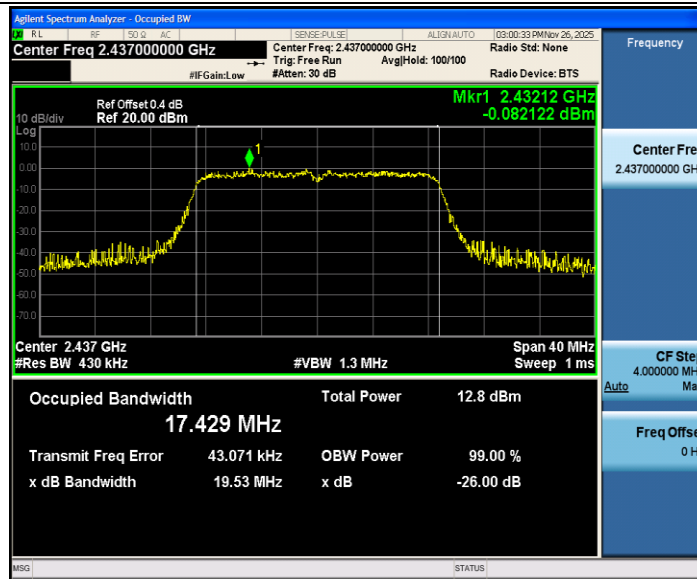
11G_Ant1_2462



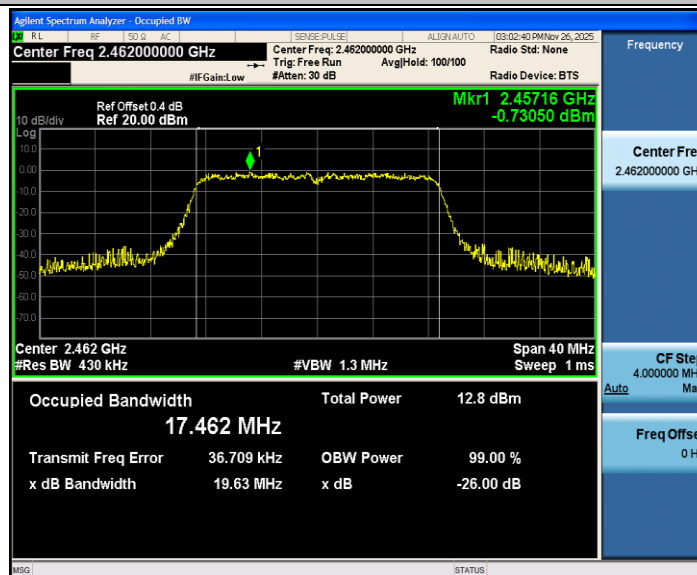
11N20SISO_Ant1_2412



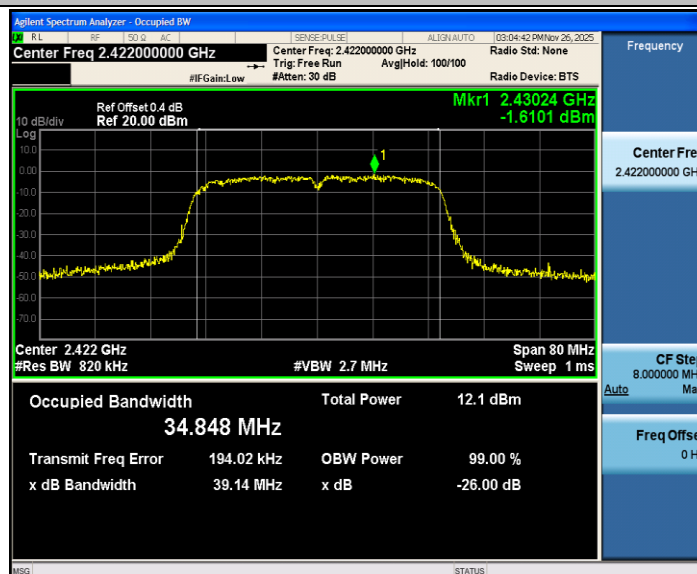
11N20SISO_Ant1_2437



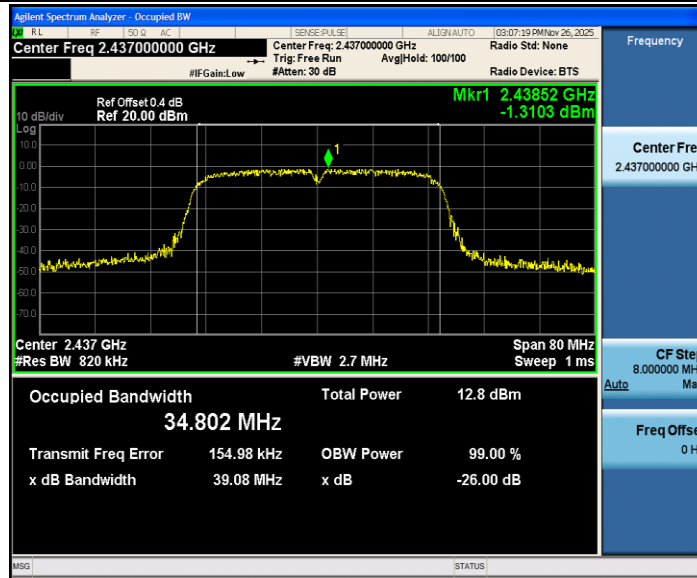
11N20SISO_Ant1_2462



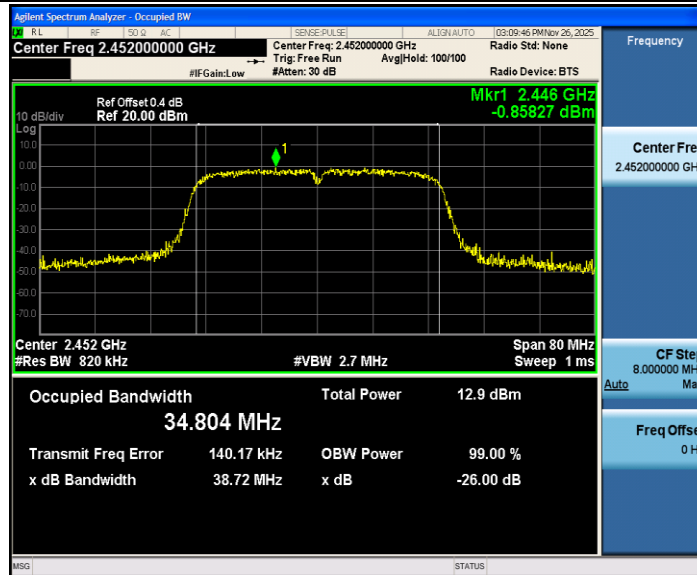
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.26	≤30.00	PASS
		2437	14.90	≤30.00	PASS
		2462	15.32	≤30.00	PASS
11G	Ant1	2412	12.85	≤30.00	PASS
		2437	13.86	≤30.00	PASS
		2462	13.66	≤30.00	PASS
11N20SISO	Ant1	2412	13.01	≤30.00	PASS
		2437	14.08	≤30.00	PASS
		2462	13.88	≤30.00	PASS
11N40SISO	Ant1	2422	12.33	≤30.00	PASS
		2437	13.06	≤30.00	PASS
		2452	13.24	≤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	-15.11	≤8.00	PASS
		2437	-13.92	≤8.00	PASS
		2462	-13.48	≤8.00	PASS
11G	Ant1	2412	-21.64	≤8.00	PASS
		2437	-20.61	≤8.00	PASS
		2462	-20.69	≤8.00	PASS
11N20SISO	Ant1	2412	-21.55	≤8.00	PASS
		2437	-20.15	≤8.00	PASS
		2462	-20.74	≤8.00	PASS
11N40SISO	Ant1	2422	-22.44	≤8.00	PASS
		2437	-21.58	≤8.00	PASS
		2452	-22.33	≤8.00	PASS

Test Graphs

11B_Ant1_2412



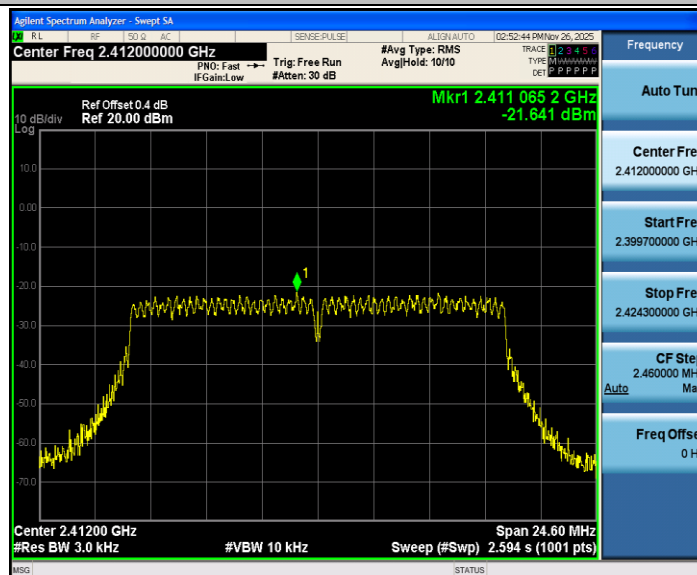
11B_Ant1_2437



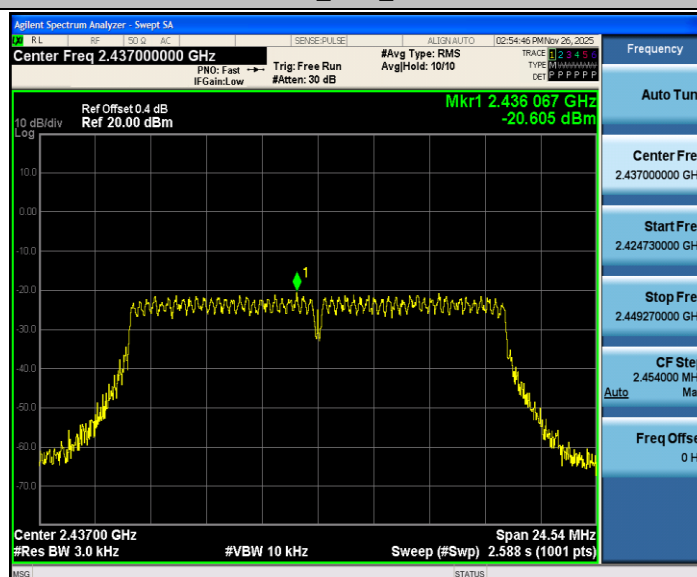
11B_Ant1_2462



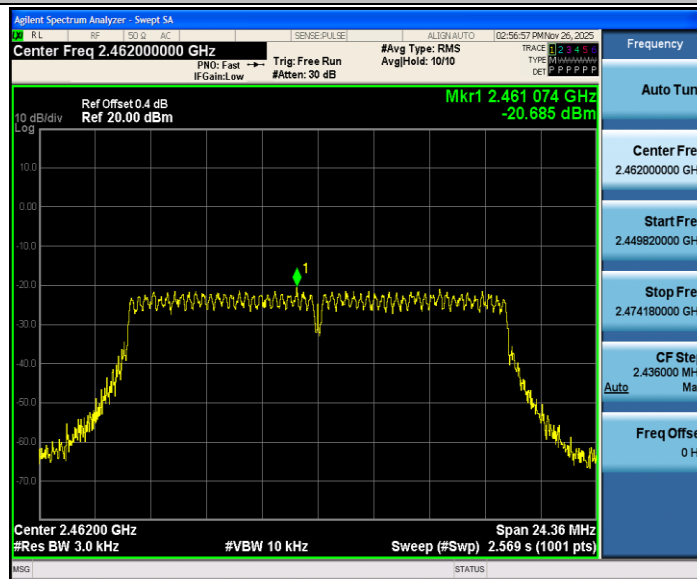
11G_Ant1_2412



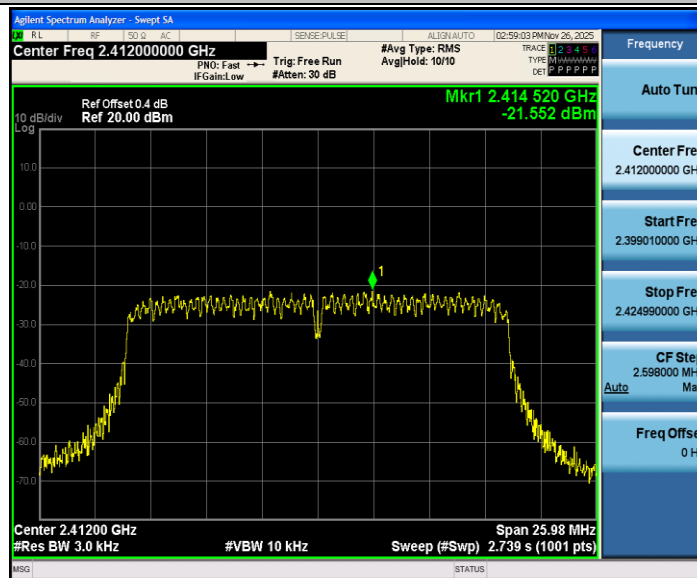
11G_Ant1_2437



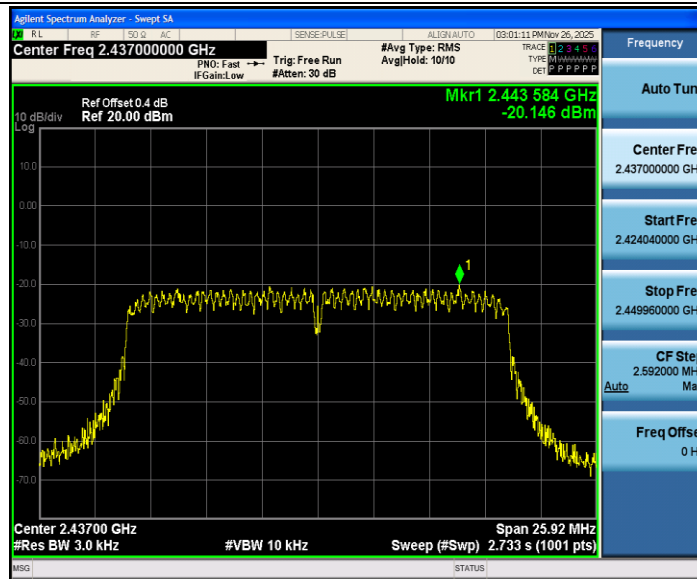
11G_Ant1_2462



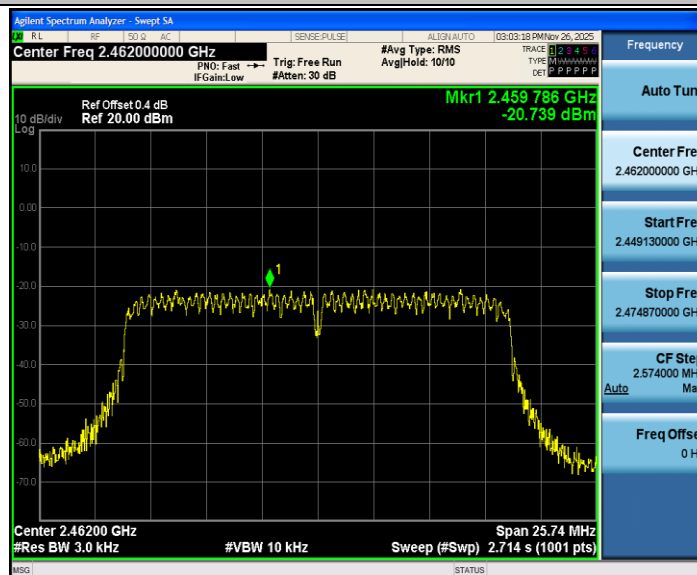
11N20SISO_Ant1_2412



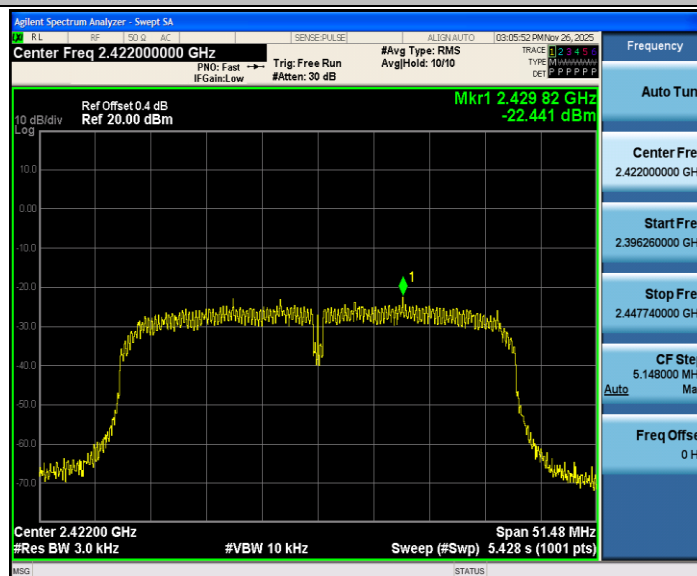
11N20SISO_Ant1_2437



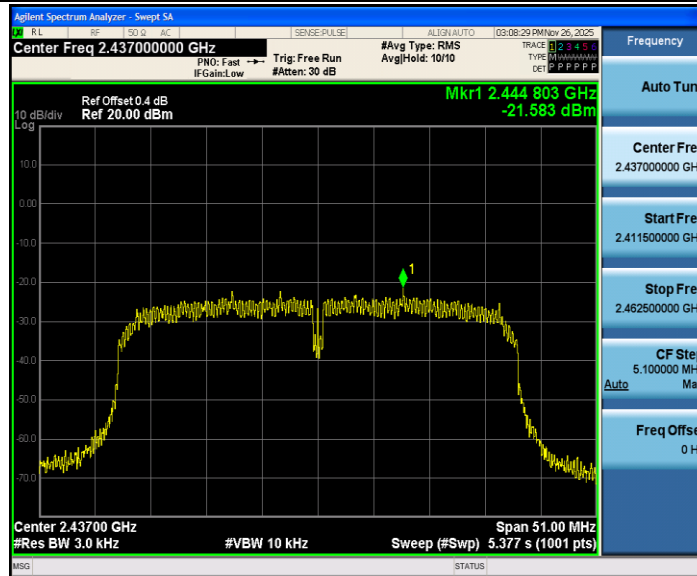
11N20SISO_Ant1_2462



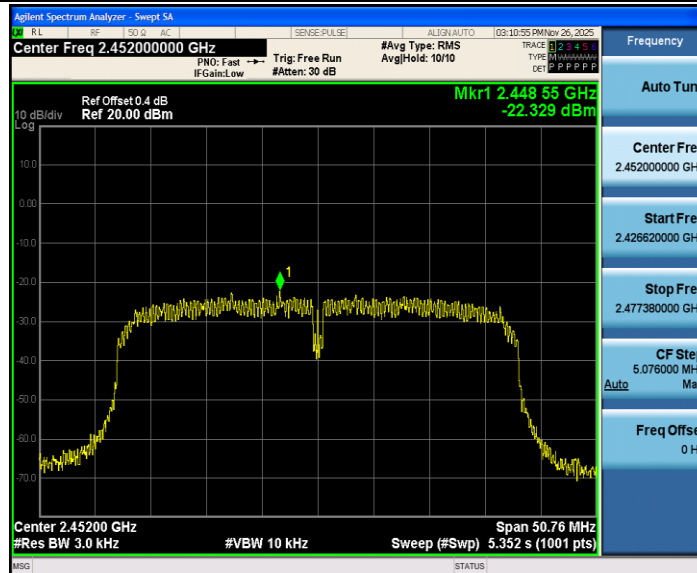
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



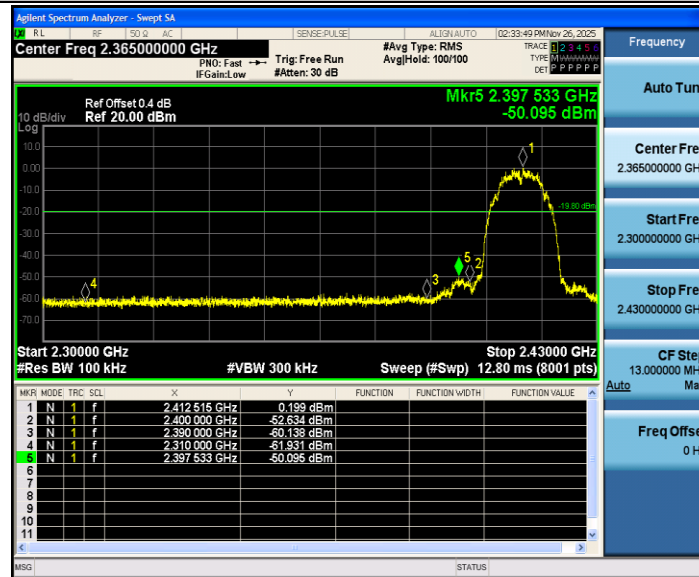
Appendix E: Band edge measurements

Test Result

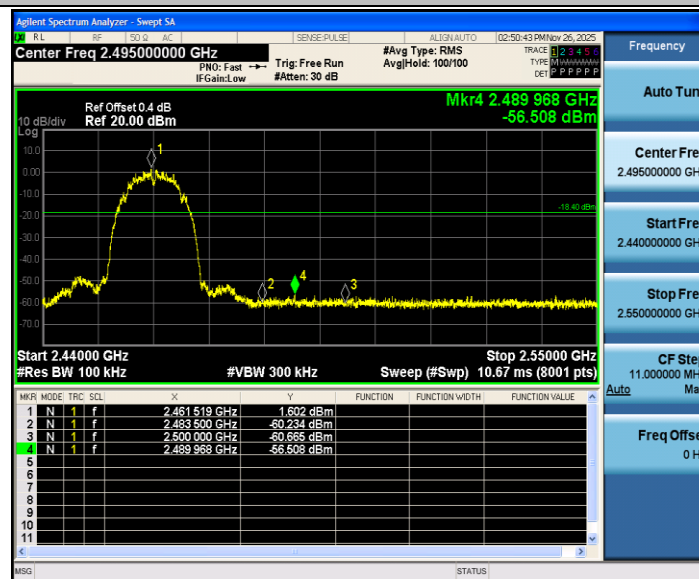
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.20	-50.1	≤-19.8	PASS
		High	2462	1.60	-56.51	≤-18.4	PASS
11G	Ant1	Low	2412	-7.37	-45.84	≤-27.37	PASS
		High	2462	-6.79	-51.94	≤-26.79	PASS
11N20SISO	Ant1	Low	2412	-7.95	-46.49	≤-27.95	PASS
		High	2462	-7.13	-52.96	≤-27.13	PASS
11N40SISO	Ant1	Low	2422	-10.62	-49.28	≤-30.62	PASS
		High	2452	-9.76	-52.96	≤-29.76	PASS

Test Graphs

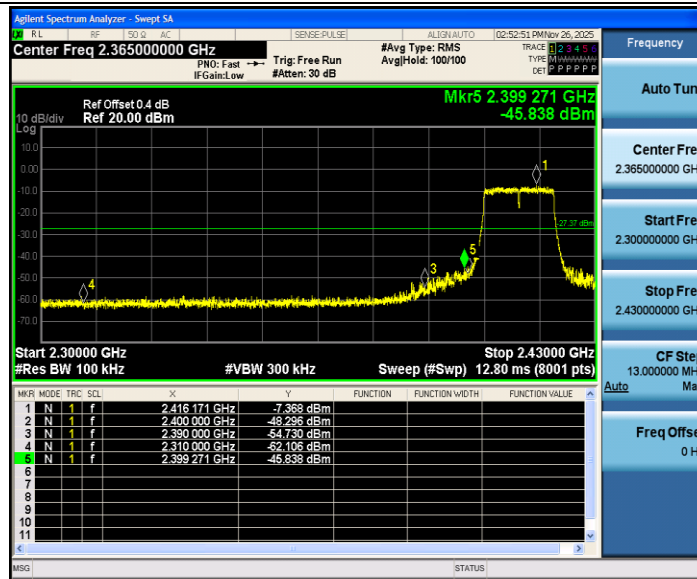
11B_Ant1_Low_2412



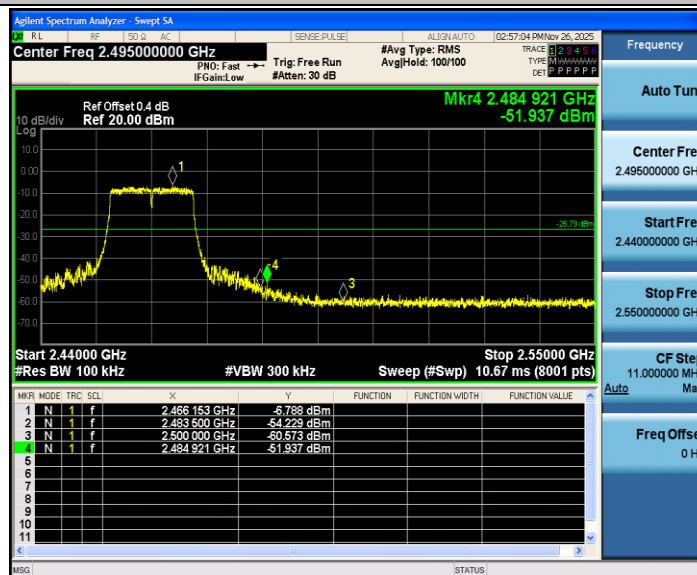
11B_Ant1_High_2462



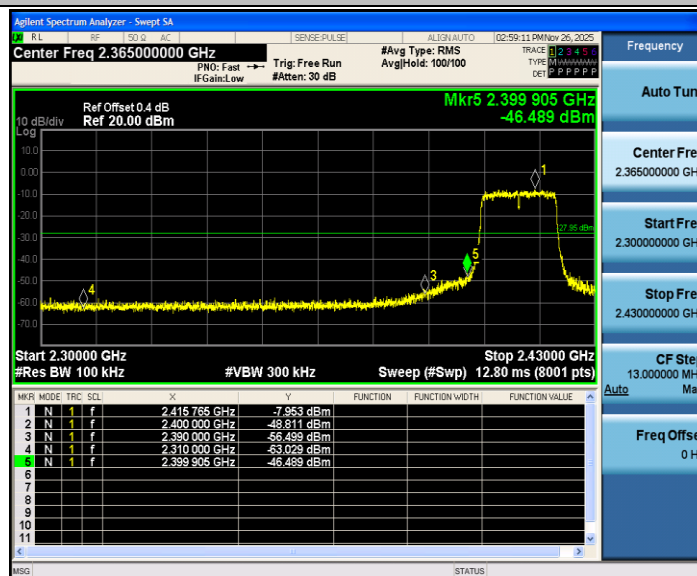
11G_Ant1_Low_2412



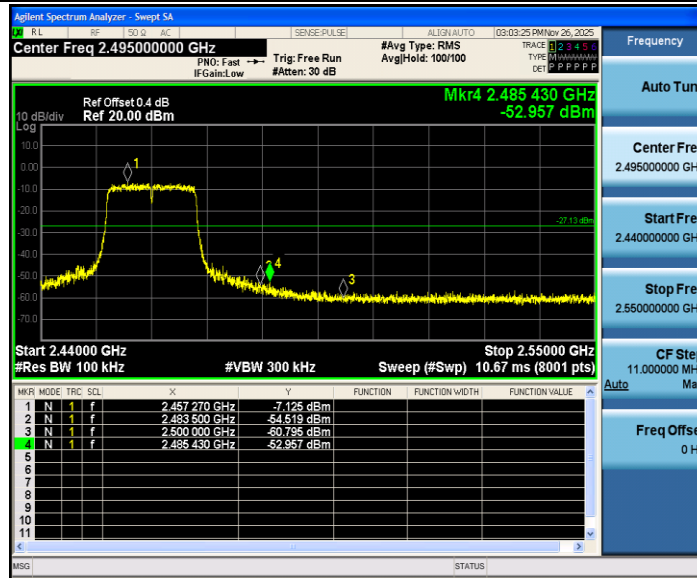
11G_Ant1_High_2462



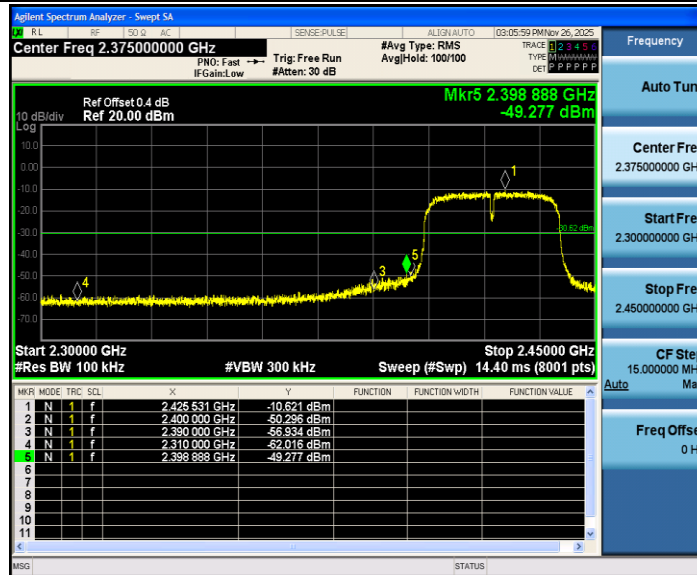
11N20SISO_Ant1_Low_2412



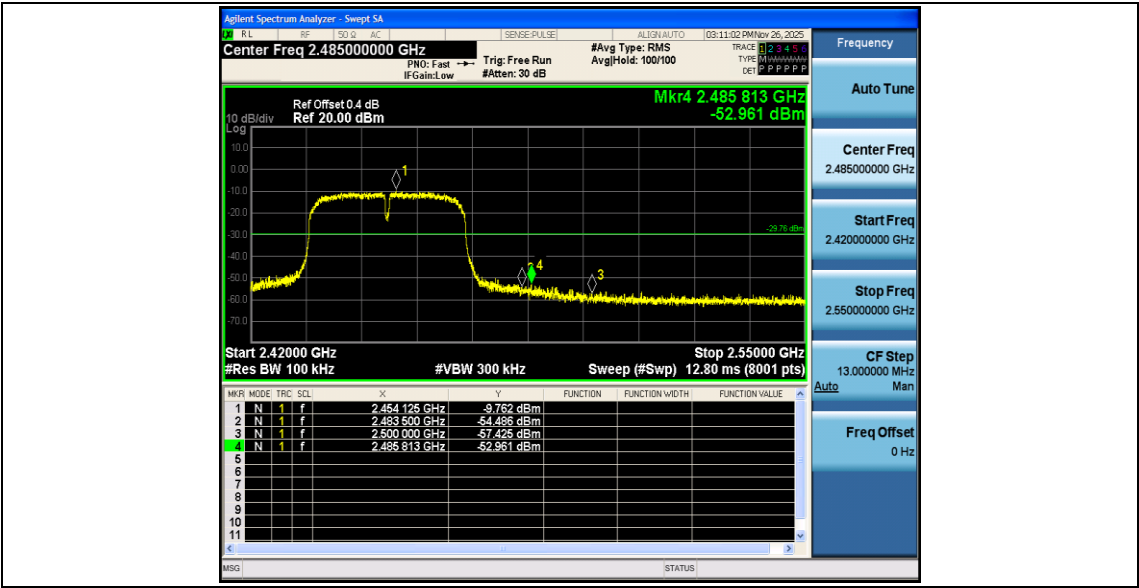
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



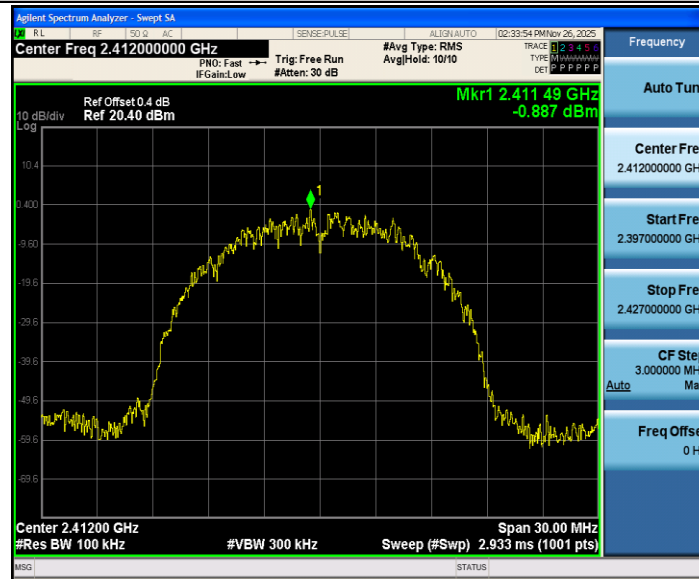
Appendix F: Conducted Spurious Emission

Test Result

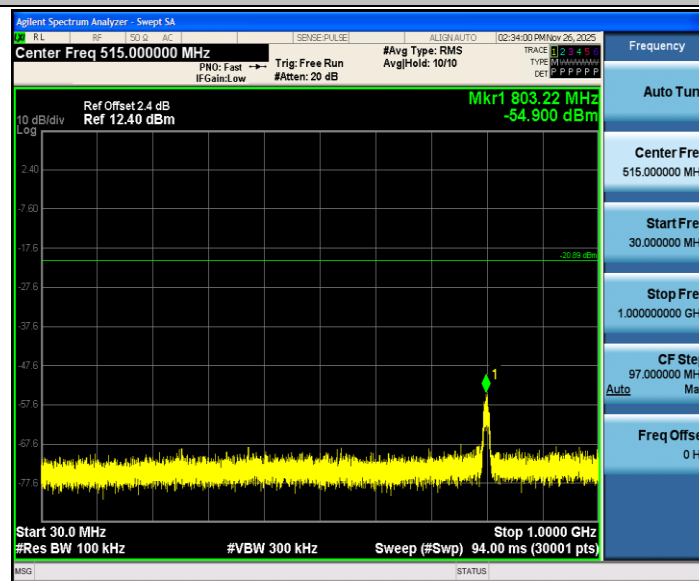
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-54.9	≤-20.89	PASS
			1000~26500	-0.89	-44.39	≤-20.89	PASS
		2437	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-55.07	≤-20.55	PASS
			1000~26500	-0.55	-44.88	≤-20.55	PASS
		2462	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-56.2	≤-20.13	PASS
			1000~26500	-0.13	-45.2	≤-20.13	PASS
11G	Ant1	2412	Reference	-8.06	-8.06	---	PASS
			30~1000	-8.06	-60.31	≤-28.06	PASS
			1000~26500	-8.06	-43.86	≤-28.06	PASS
		2437	Reference	-7.00	-7.00	---	PASS
			30~1000	-7.00	-59.52	≤-27	PASS
			1000~26500	-7.00	-44.51	≤-27	PASS
		2462	Reference	-7.50	-7.50	---	PASS
			30~1000	-7.50	-59.9	≤-27.5	PASS
			1000~26500	-7.50	-44.75	≤-27.5	PASS
11N20SISO	Ant1	2412	Reference	-8.45	-8.45	---	PASS
			30~1000	-8.45	-59.57	≤-28.45	PASS
			1000~26500	-8.45	-43.9	≤-28.45	PASS
		2437	Reference	-7.71	-7.71	---	PASS
			30~1000	-7.71	-59.65	≤-27.71	PASS
			1000~26500	-7.71	-44.21	≤-27.71	PASS
		2462	Reference	-7.19	-7.19	---	PASS
			30~1000	-7.19	-60.06	≤-27.19	PASS
			1000~26500	-7.19	-44.82	≤-27.19	PASS
11N40SISO	Ant1	2422	Reference	-11.18	-11.18	---	PASS
			30~1000	-11.18	-55.77	≤-31.18	PASS
			1000~26500	-11.18	-44.01	≤-31.18	PASS
		2437	Reference	-10.54	-10.54	---	PASS
			30~1000	-10.54	-61.59	≤-30.54	PASS
			1000~26500	-10.54	-44.31	≤-30.54	PASS
		2452	Reference	-10.48	-10.48	---	PASS
			30~1000	-10.48	-62.92	≤-30.48	PASS
			1000~26500	-10.48	-44.78	≤-30.48	PASS

Test Graphs

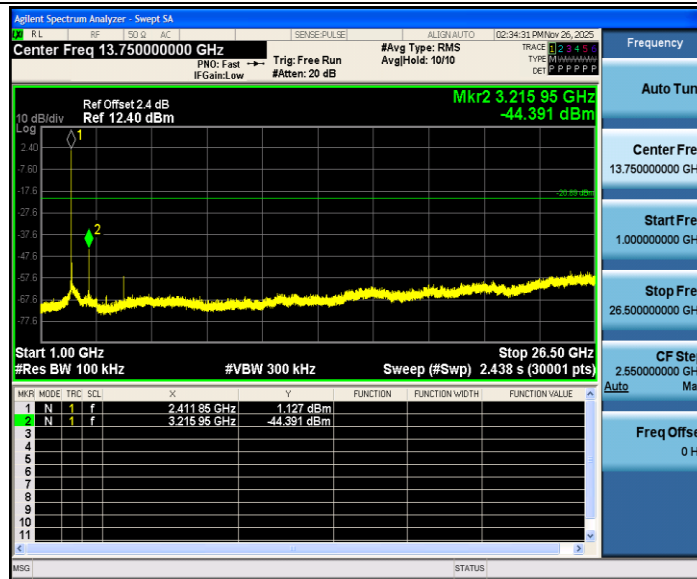
11B_Ant1_2412_0~Reference



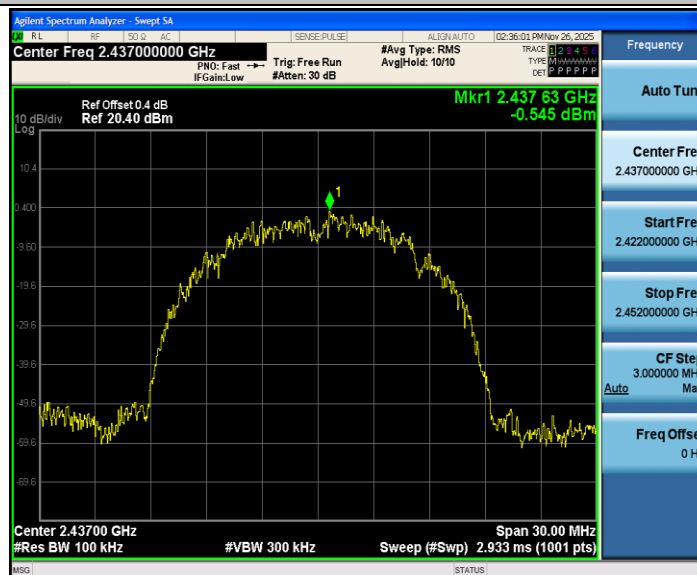
11B_Ant1_2412_30~1000



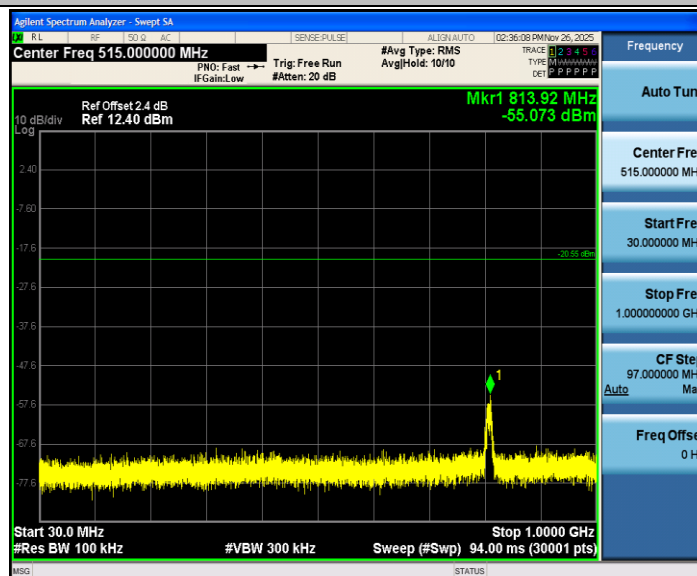
11B_Ant1_2412_1000~26500



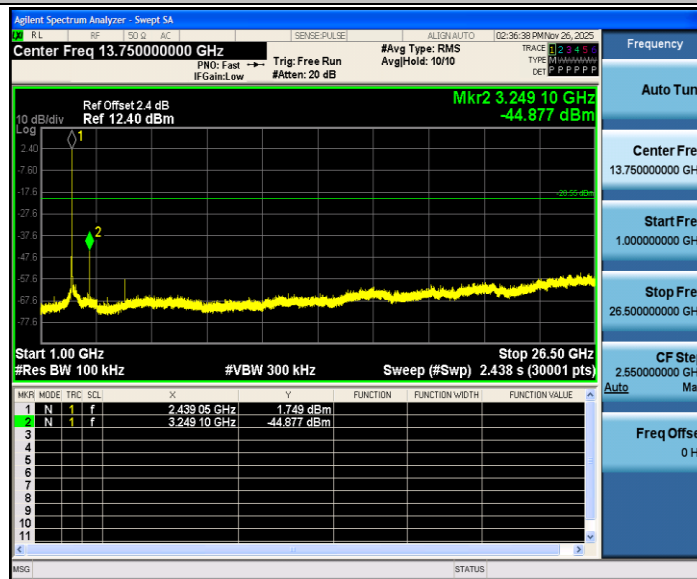
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



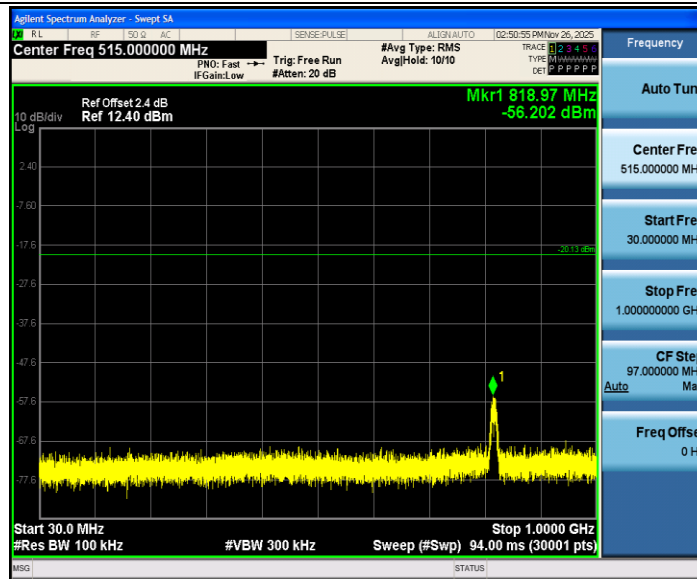
11B_Ant1_2437_1000~26500



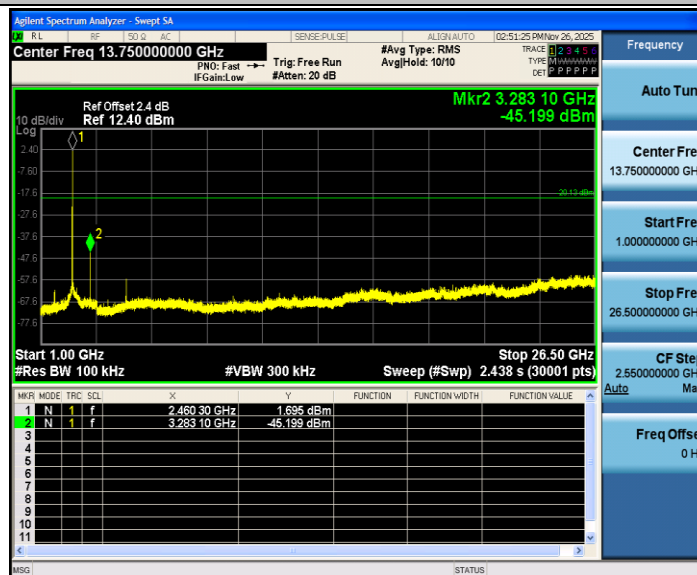
11B_Ant1_2462_0~Reference



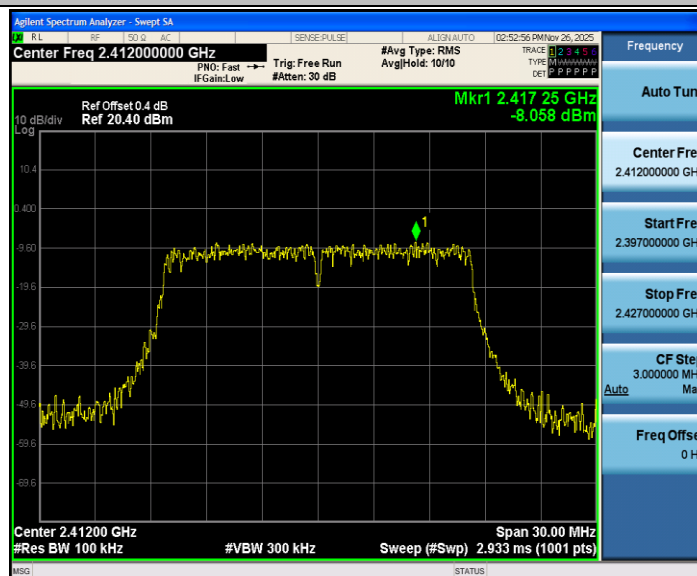
11B_Ant1_2462_30~1000



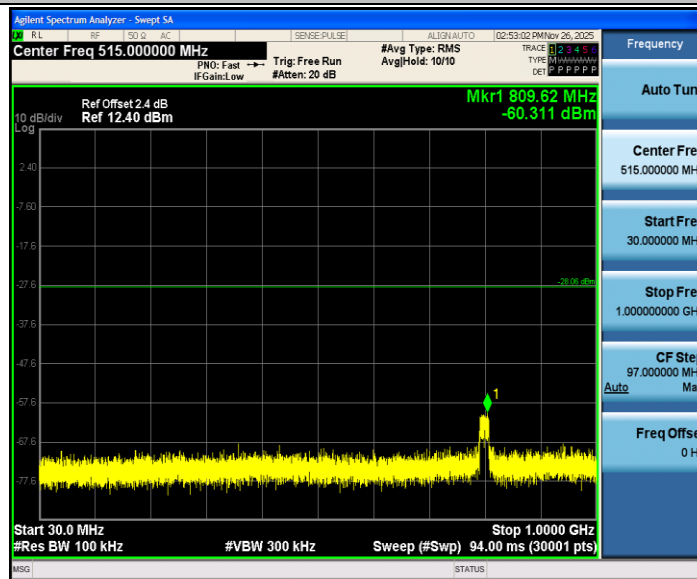
11B_Ant1_2462_1000~26500



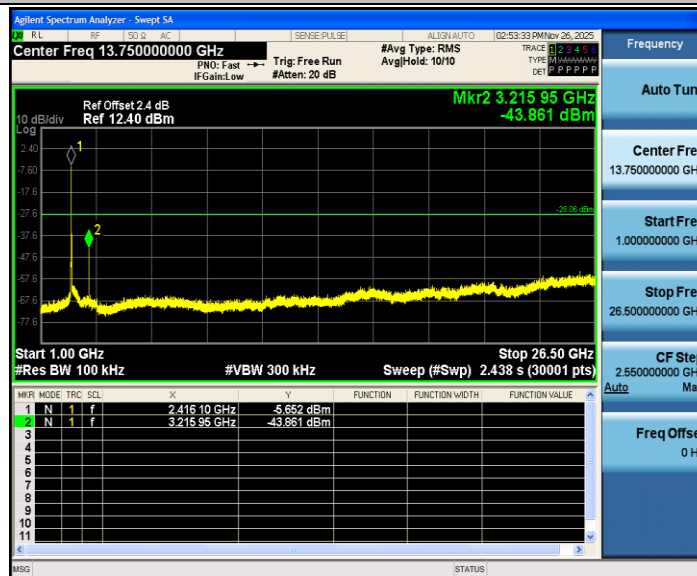
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



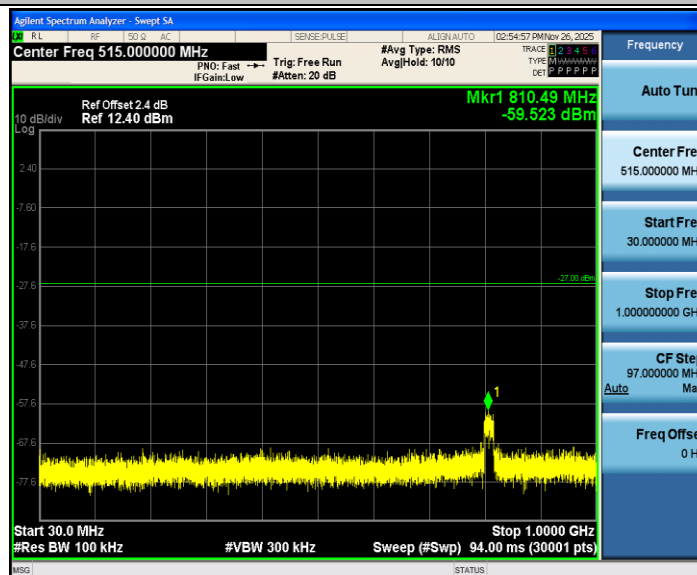
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

