

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BO26-WG-06

Company : Dongguan waogao Electrical Technology Co., Ltd.

EUT : Air aromatherapy purifier

Model Number : WG-06

Report No. : CTA25091900801

Reviewed By : Eric Wang

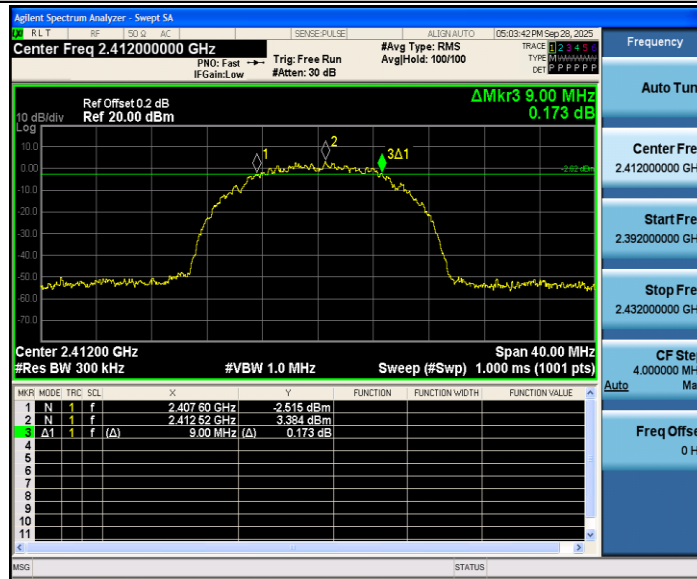
Appendix A: DTS Bandwidth

Test Result

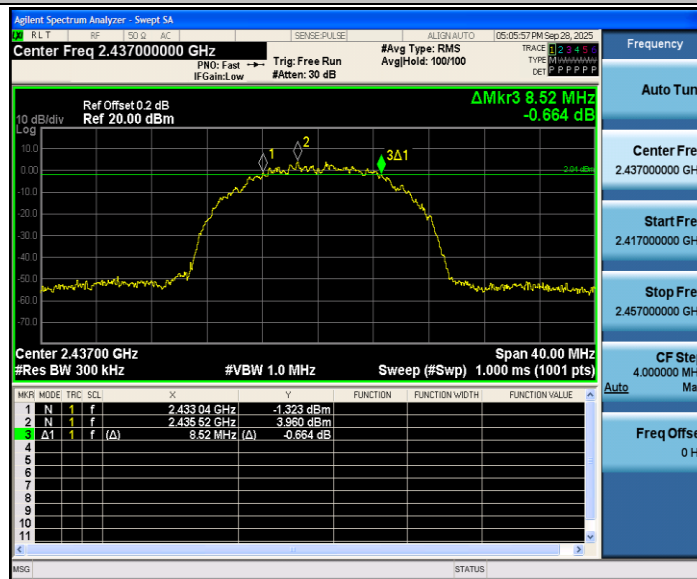
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.600	2416.600	0.5	PASS
		2437	8.520	2433.040	2441.560	0.5	PASS
		2462	8.280	2458.000	2466.280	0.5	PASS
11G	Ant1	2412	16.440	2403.840	2420.280	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.400	2453.840	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.360	2420.640	0.5	PASS
		2437	17.160	2428.440	2445.600	0.5	PASS
		2462	17.360	2453.360	2470.720	0.5	PASS
11N40SISO	Ant1	2422	33.920	2405.200	2439.120	0.5	PASS
		2437	33.920	2420.280	2454.200	0.5	PASS
		2452	33.680	2435.360	2469.040	0.5	PASS

Test Graphs

11B_Ant1_2412



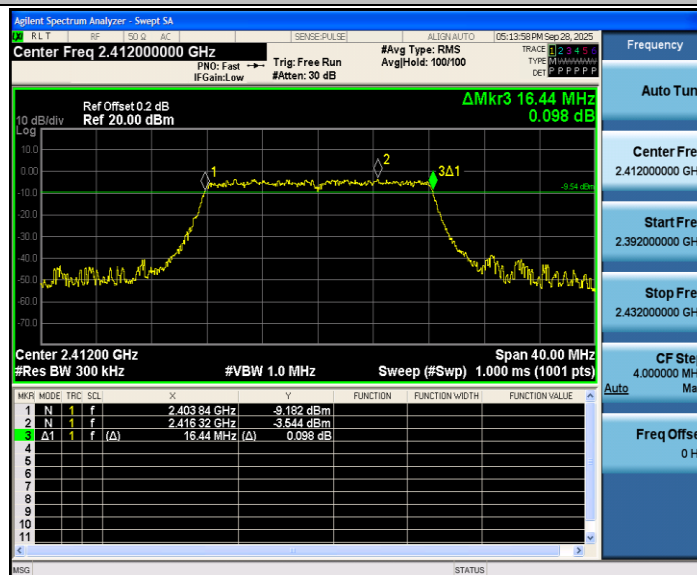
11B_Ant1_2437



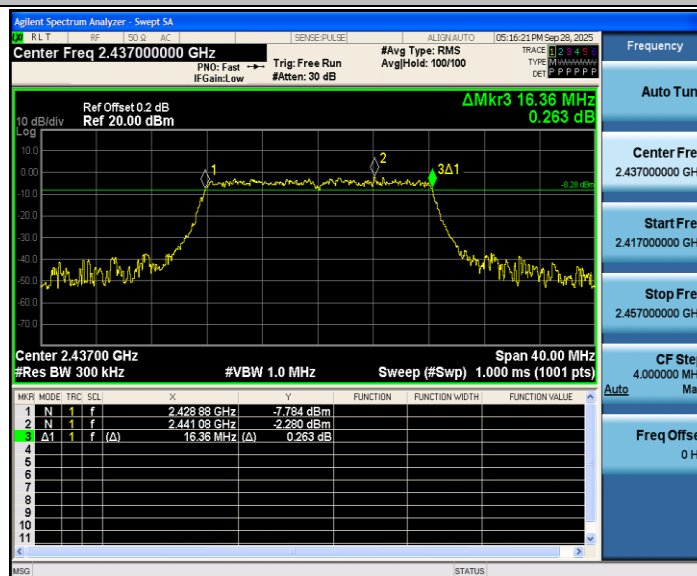
11B_Ant1_2462

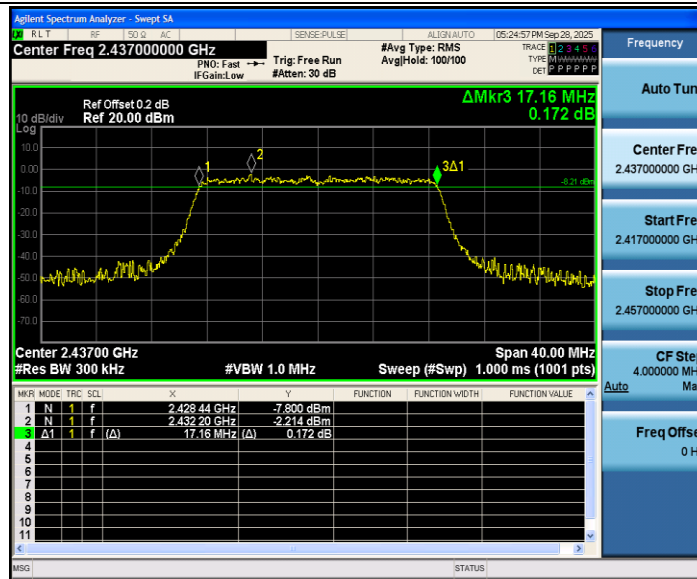


11G_Ant1_2412

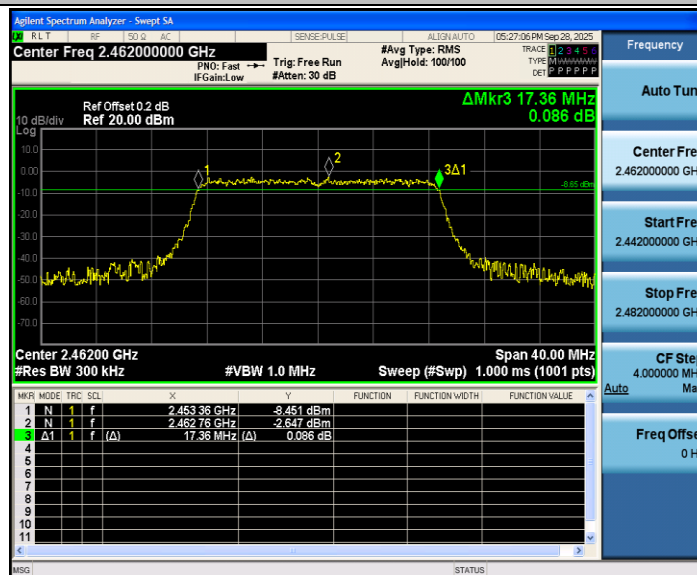


11G_Ant1_2437

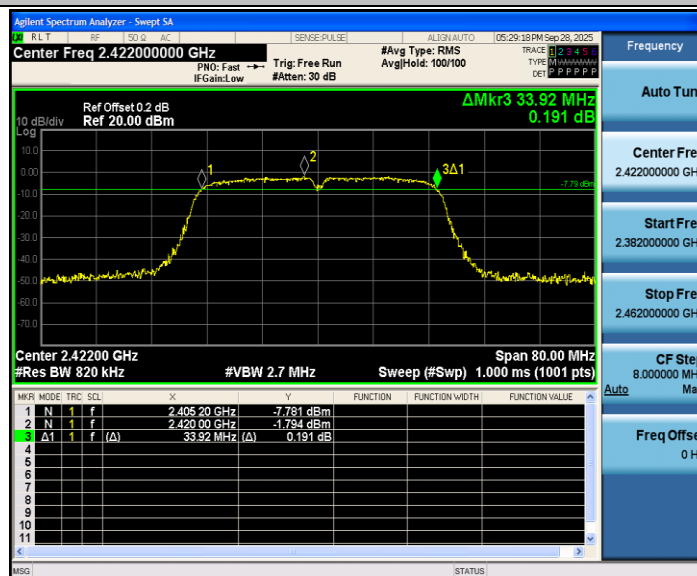




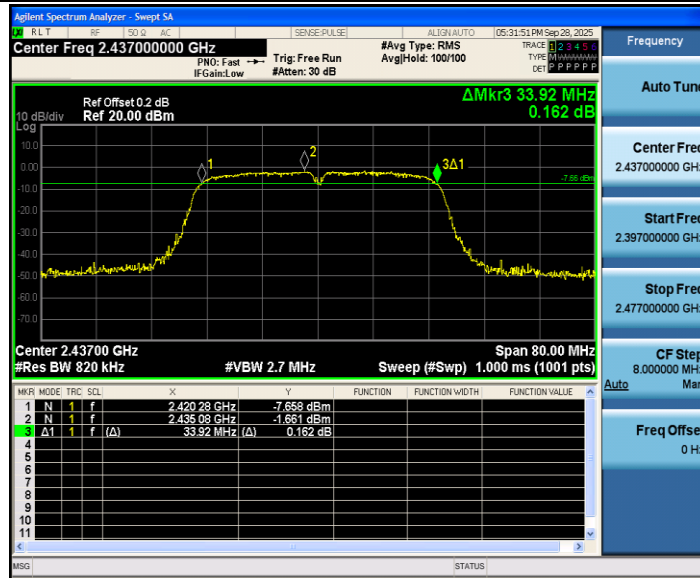
11N20SISO_Ant1_2462



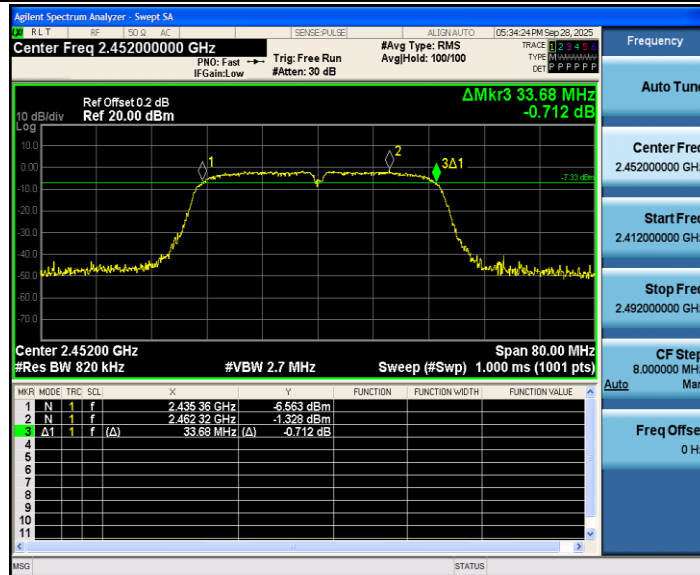
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



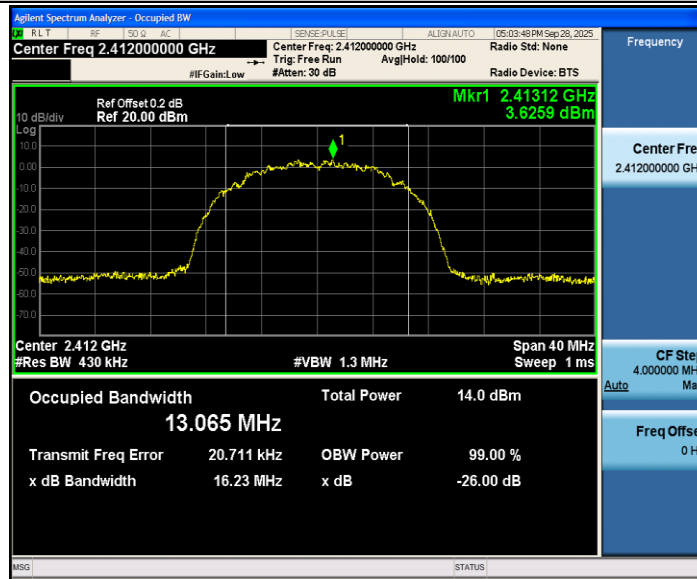
Appendix B: Occupied Channel Bandwidth

Test Result

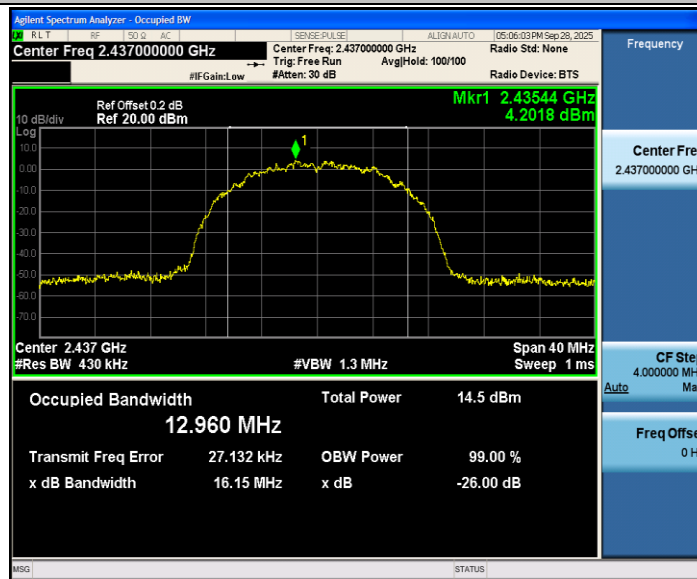
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.065	2405.4882	2418.5532	---	---
		2437	12.960	2430.5471	2443.5071	---	---
		2462	13.040	2455.4673	2468.5073	---	---
11G	Ant1	2412	16.543	2403.7757	2420.3187	---	---
		2437	16.572	2428.7522	2445.3242	---	---
		2462	16.529	2453.7676	2470.2966	---	---
11N20SISO	Ant1	2412	17.438	2403.3259	2420.7639	---	---
		2437	17.442	2428.3101	2445.7521	---	---
		2462	17.417	2453.3146	2470.7316	---	---
11N40SISO	Ant1	2422	34.789	2404.7639	2439.5529	---	---
		2437	34.791	2419.7273	2454.5183	---	---
		2452	34.795	2434.7013	2469.4963	---	---

Test Graphs

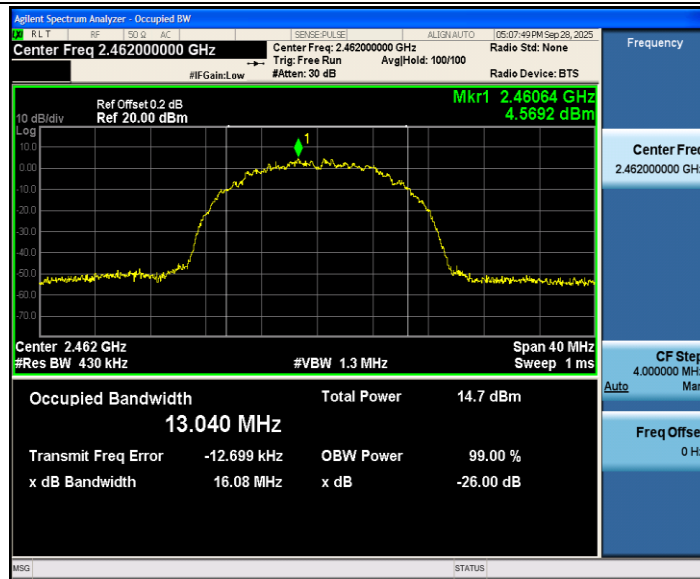
11B_Ant1_2412



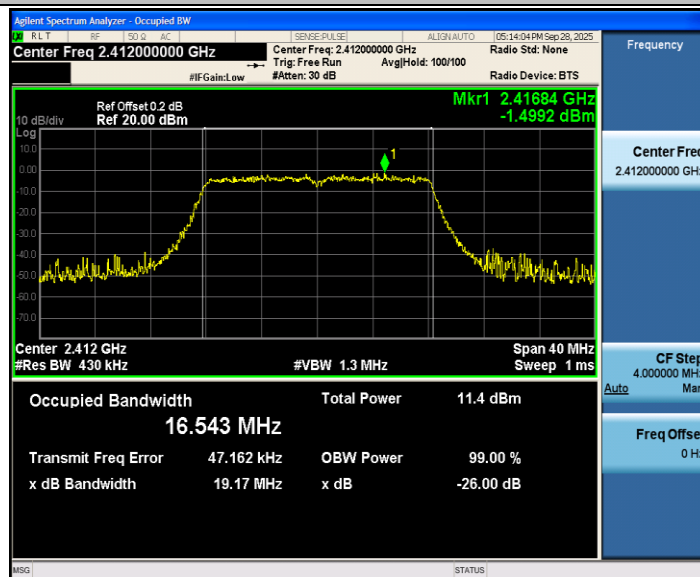
11B_Ant1_2437



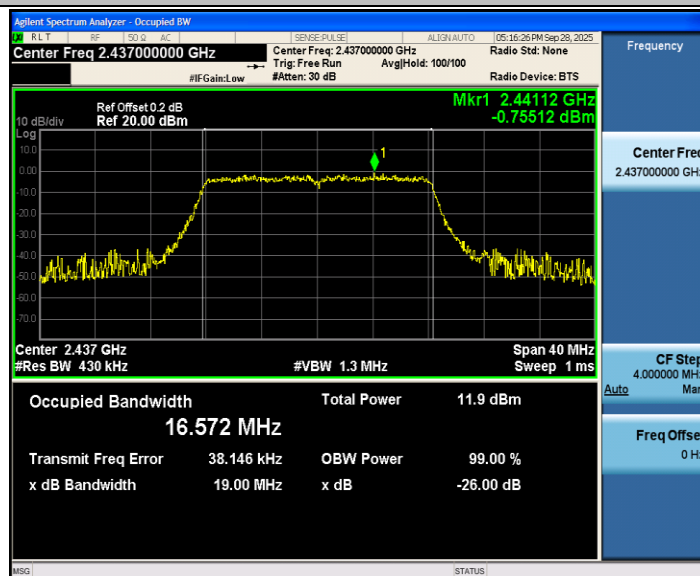
11B_Ant1_2462



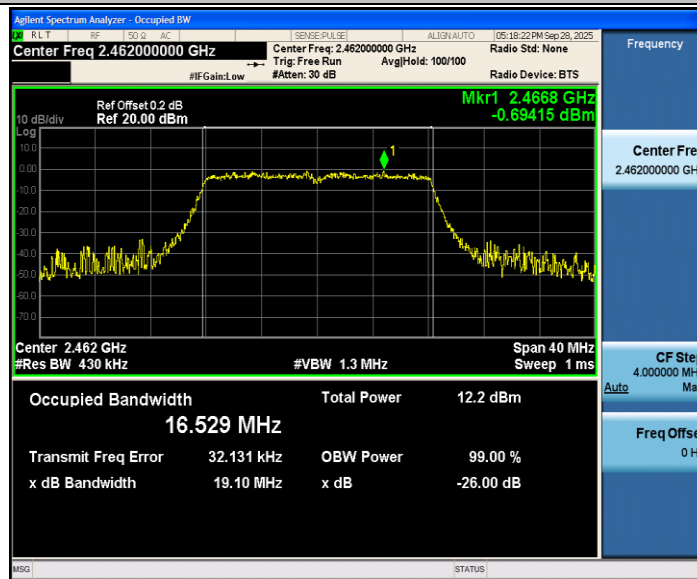
11G_Ant1_2412



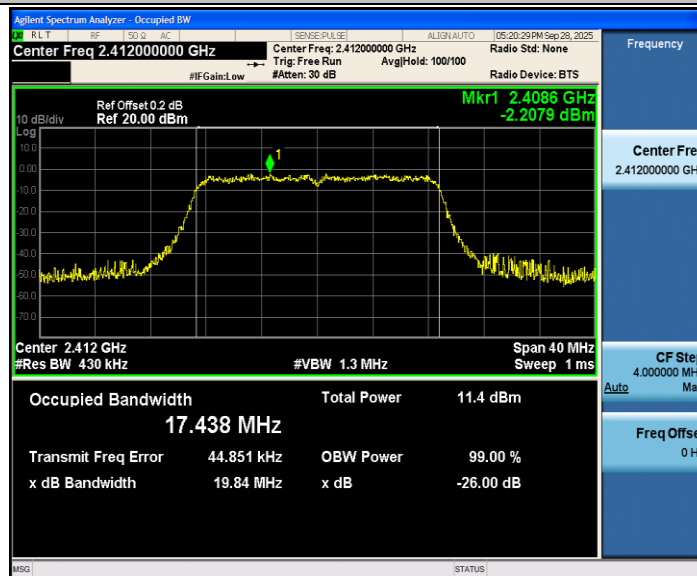
11G_Ant1_2437



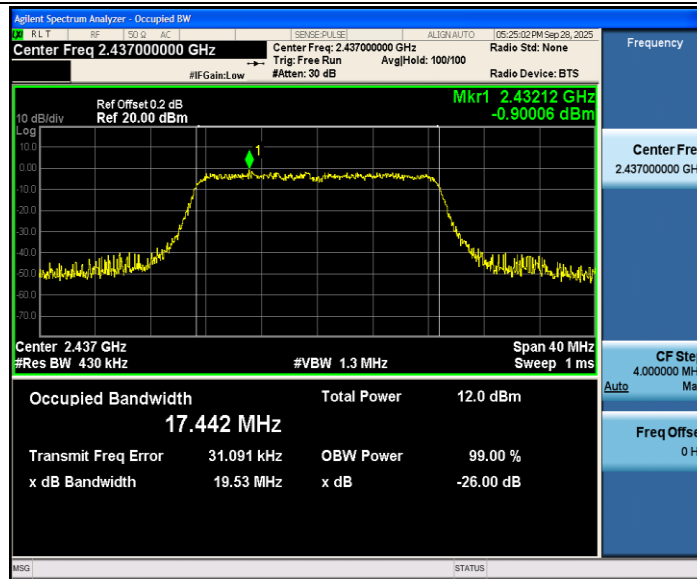
11G_Ant1_2462



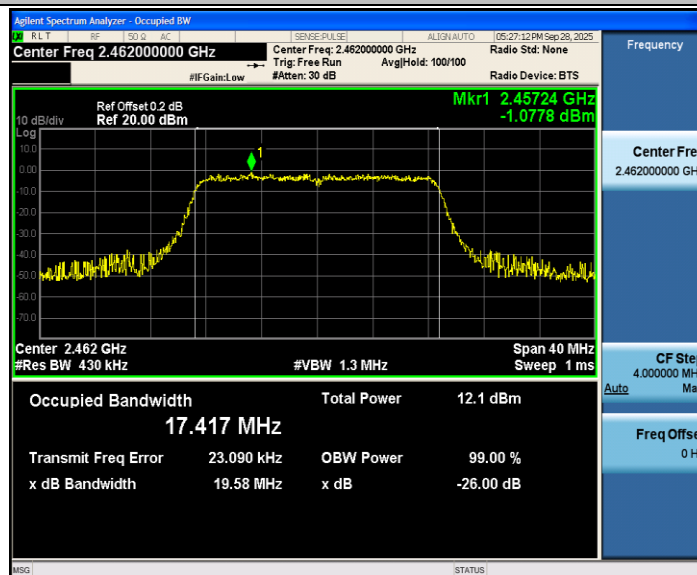
11N20SISO_Ant1_2412



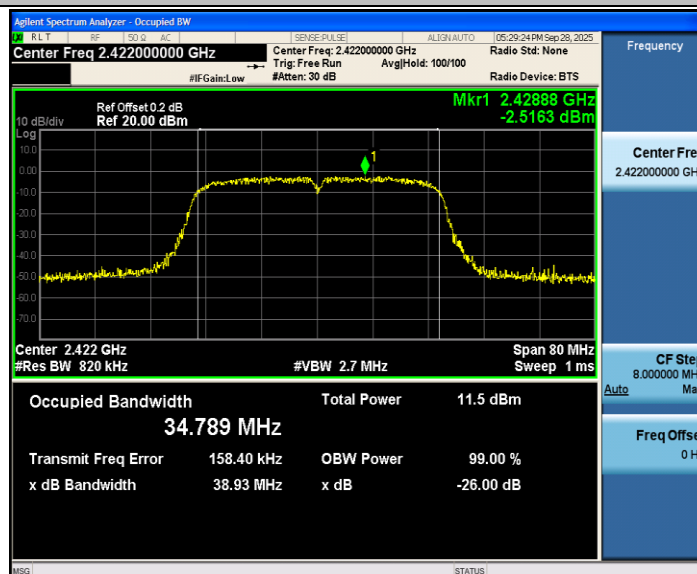
11N20SISO_Ant1_2437



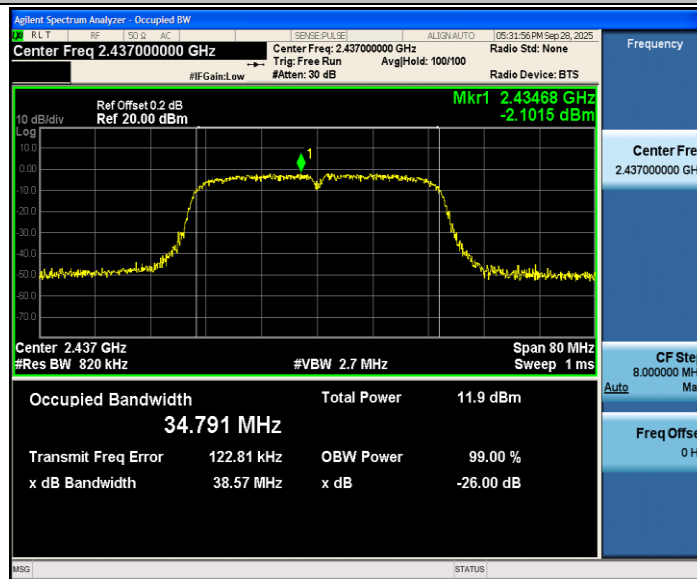
11N20SISO_Ant1_2462



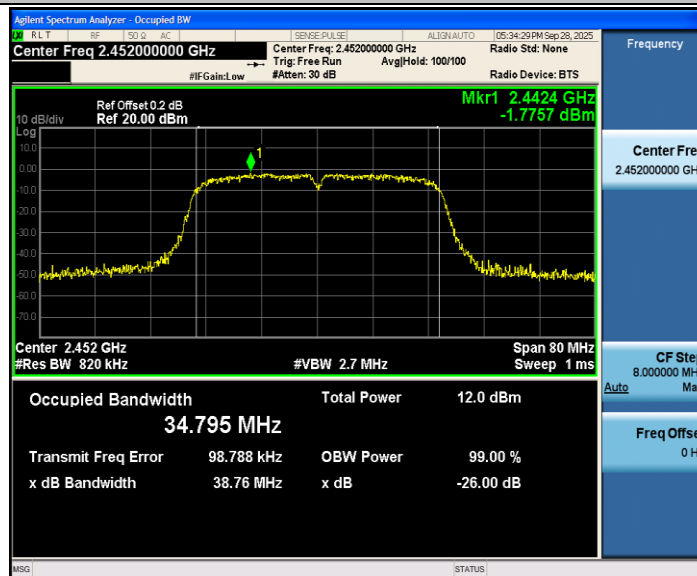
11N40SISO_Ant1_2422



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	13.72	≤30.00	PASS
		2437	13.92	≤30.00	PASS
		2462	14.10	≤30.00	PASS
11G	Ant1	2412	12.25	≤30.00	PASS
		2437	12.93	≤30.00	PASS
		2462	12.98	≤30.00	PASS
11N20SISO	Ant1	2412	12.51	≤30.00	PASS
		2437	13.26	≤30.00	PASS
		2462	13.29	≤30.00	PASS
11N40SISO	Ant1	2422	11.83	≤30.00	PASS
		2437	12.07	≤30.00	PASS
		2452	12.20	≤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	-15.13	≤8.00	PASS
		2437	-14.74	≤8.00	PASS
		2462	-14.45	≤8.00	PASS
11G	Ant1	2412	-22.18	≤8.00	PASS
		2437	-21.70	≤8.00	PASS
		2462	-21.40	≤8.00	PASS
11N20SISO	Ant1	2412	-21.98	≤8.00	PASS
		2437	-21.33	≤8.00	PASS
		2462	-21.18	≤8.00	PASS
11N40SISO	Ant1	2422	-23.09	≤8.00	PASS
		2437	-23.13	≤8.00	PASS
		2452	-23.42	≤8.00	PASS

Test Graphs

11B_Ant1_2412



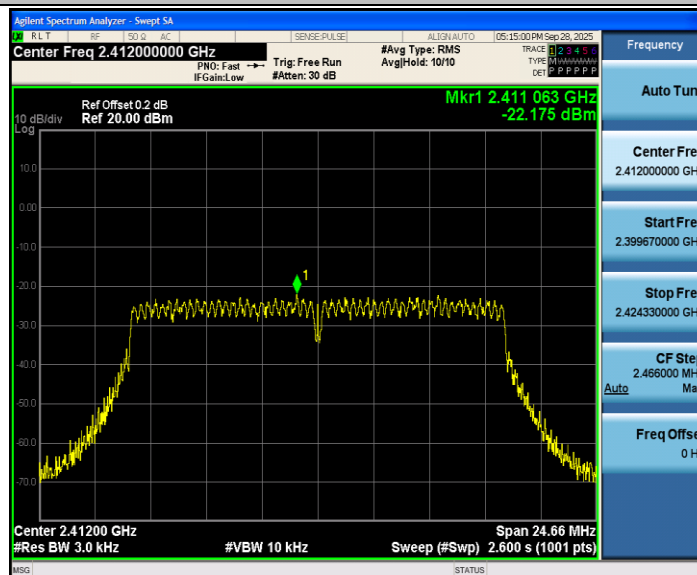
11B_Ant1_2437



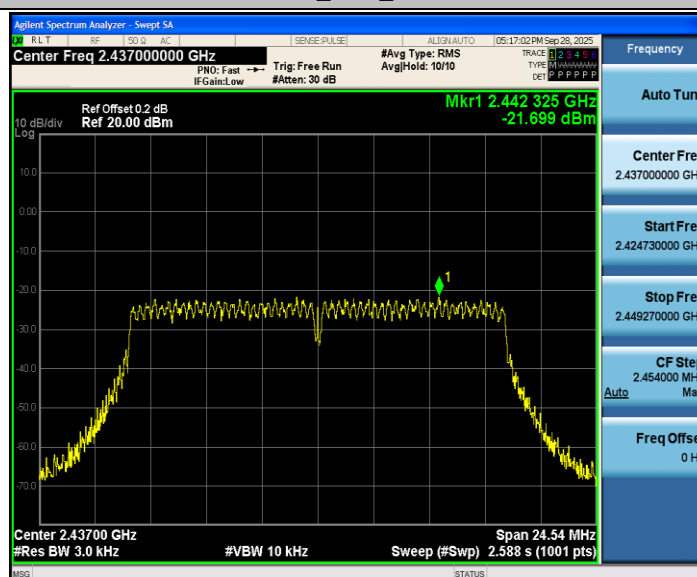
11B_Ant1_2462



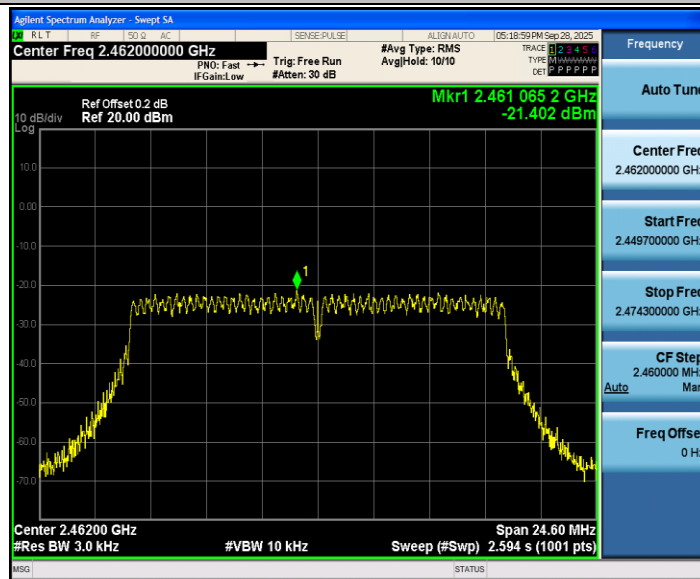
11G_Ant1_2412



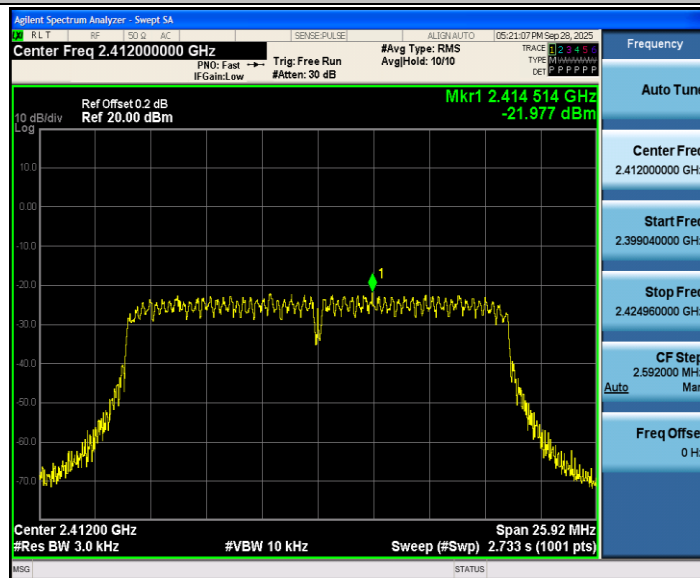
11G_Ant1_2437



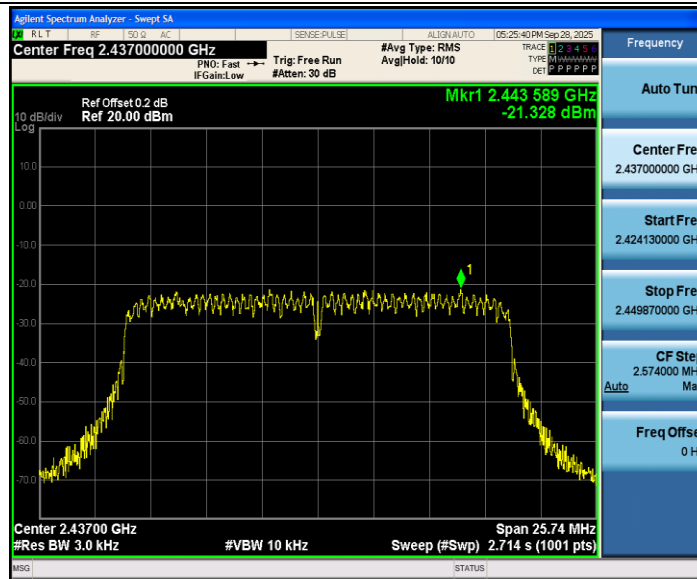
11G_Ant1_2462



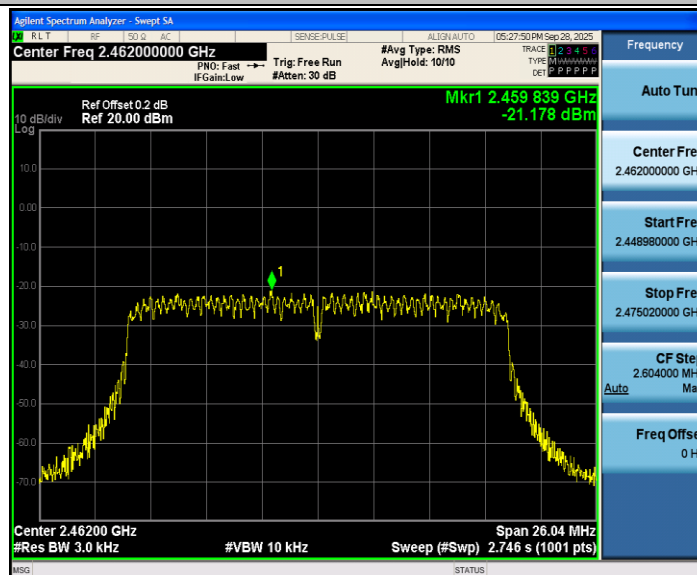
11N20SISO_Ant1_2412



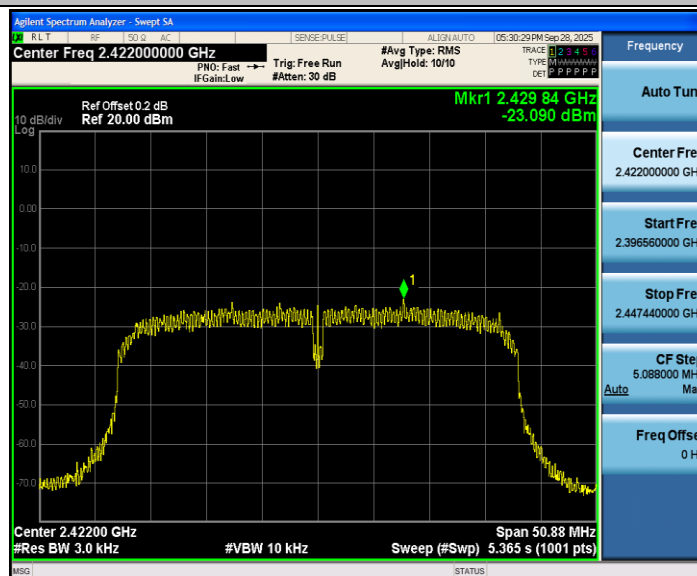
11N20SISO_Ant1_2437



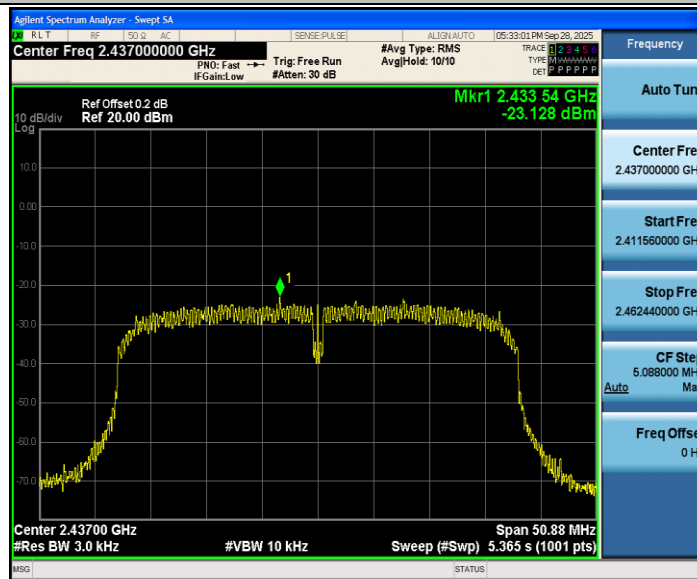
11N20SISO_Ant1_2462



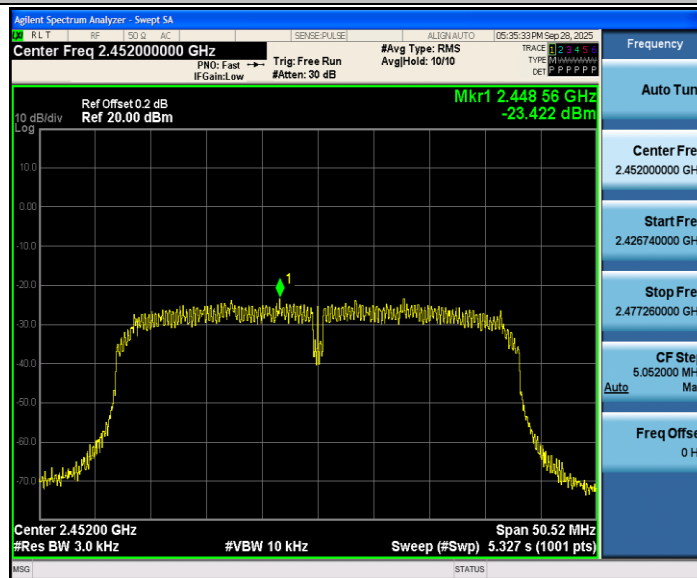
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



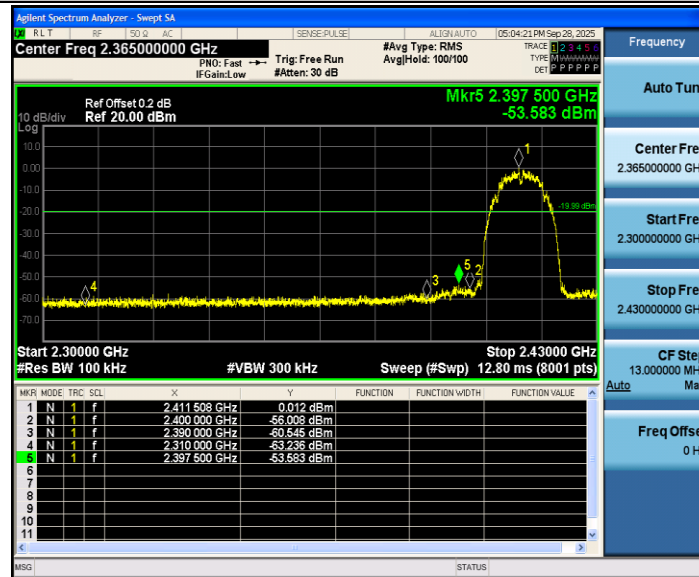
Appendix E: Band edge measurements

Test Result

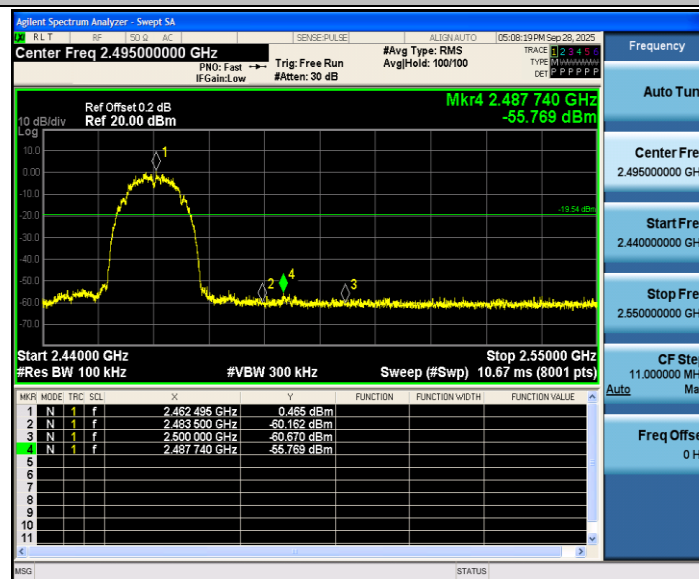
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.01	-53.58	≤-19.99	PASS
		High	2462	0.47	-55.77	≤-19.54	PASS
11G	Ant1	Low	2412	-7.98	-47.99	≤-27.98	PASS
		High	2462	-7.35	-52.66	≤-27.35	PASS
11N20SISO	Ant1	Low	2412	-8.52	-50.47	≤-28.52	PASS
		High	2462	-6.97	-54.95	≤-26.97	PASS
11N40SISO	Ant1	Low	2422	-10.89	-52.34	≤-30.89	PASS
		High	2452	-10.69	-53.18	≤-30.69	PASS

Test Graphs

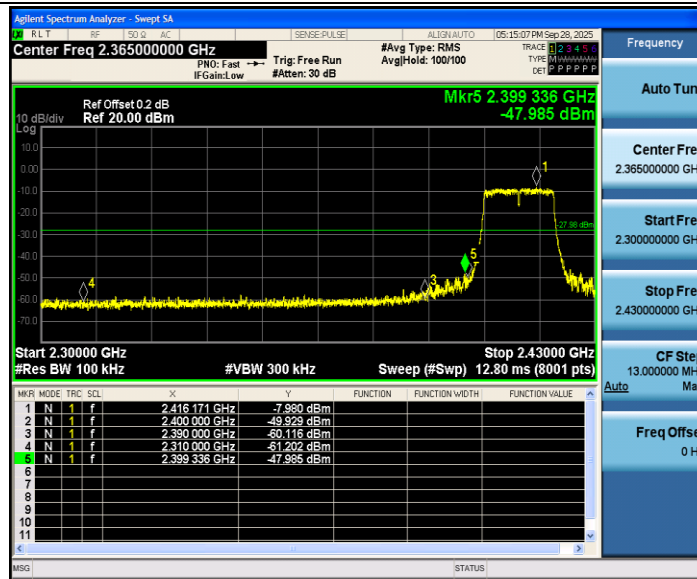
11B_Ant1_Low_2412



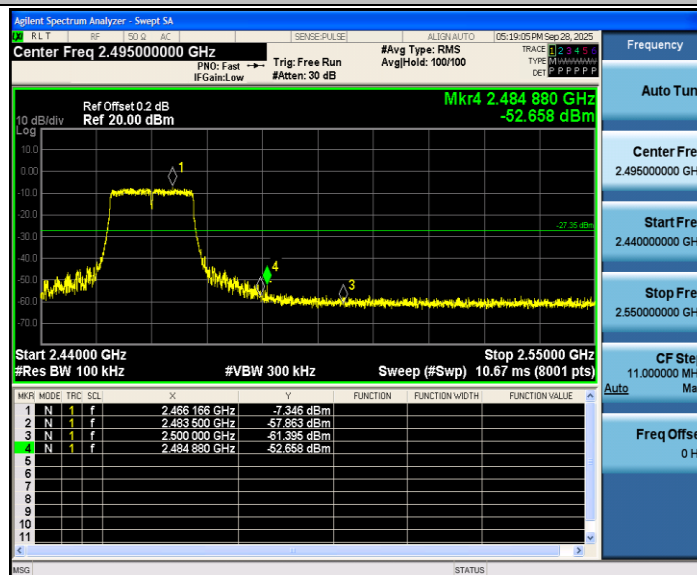
11B_Ant1_High_2462



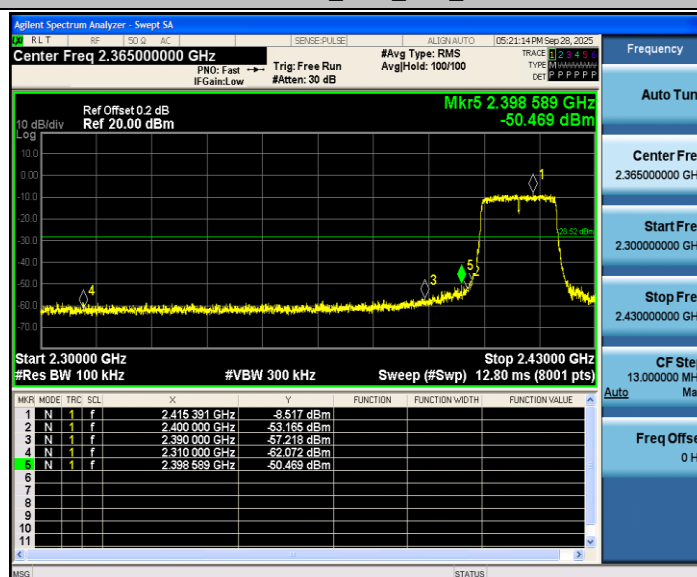
11G_Ant1_Low_2412



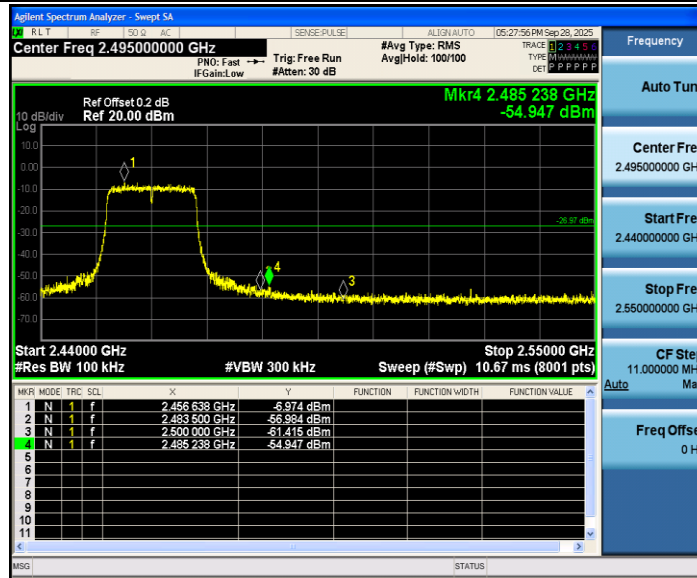
11G_Ant1_High_2462



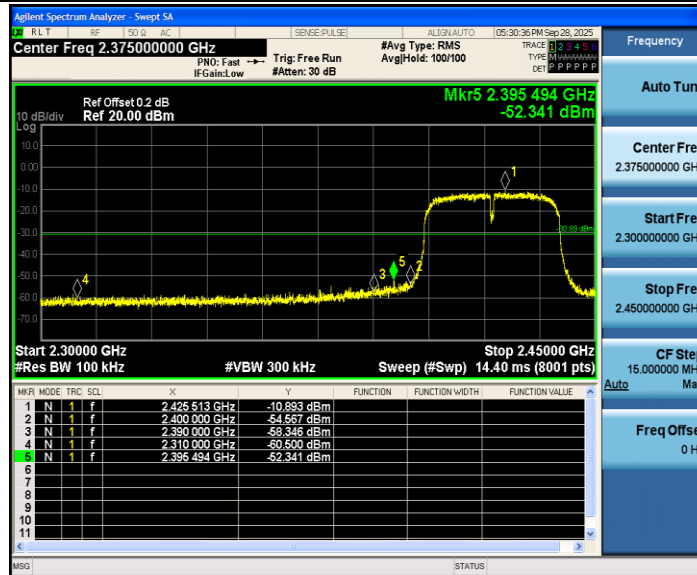
11N20SISO_Ant1_Low_2412



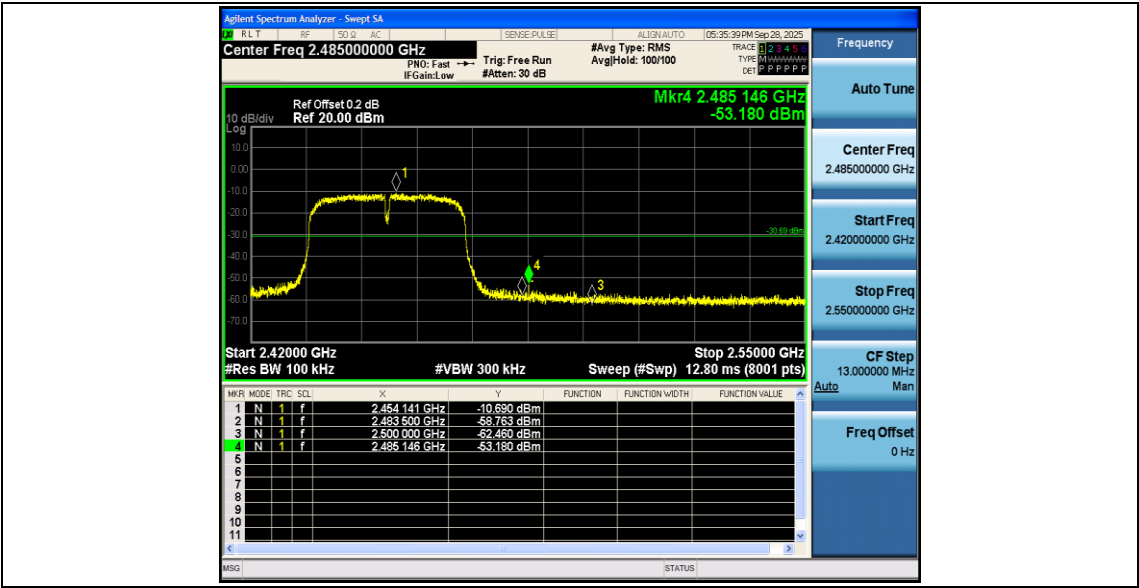
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



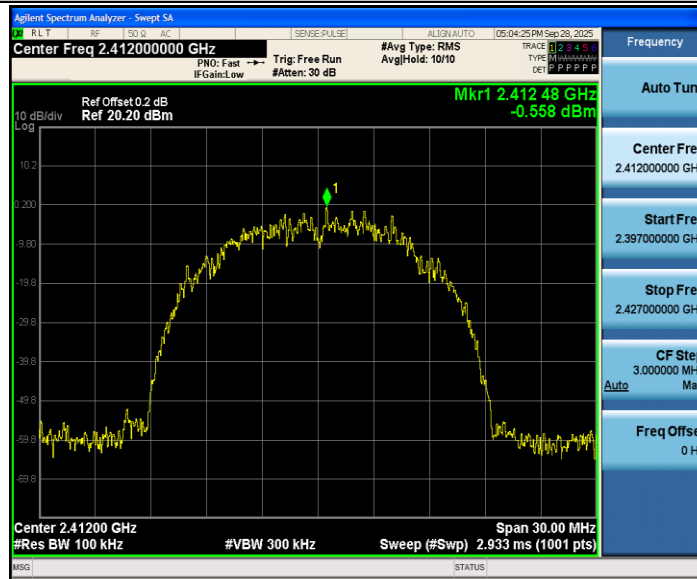
Appendix F: Conducted Spurious Emission

Test Result

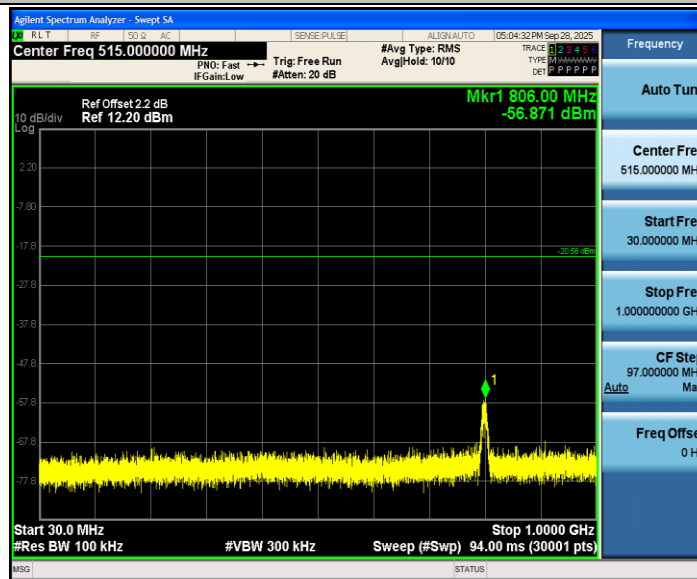
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-56.87	≤-20.56	PASS
			1000~26500	-0.56	-44.48	≤-20.56	PASS
		2437	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-56.44	≤-21.08	PASS
			1000~26500	-1.08	-44.89	≤-21.08	PASS
		2462	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-56.76	≤-20.62	PASS
			1000~26500	-0.62	-45.29	≤-20.62	PASS
11G	Ant1	2412	Reference	-8.58	-8.58	---	PASS
			30~1000	-8.58	-60.37	≤-28.58	PASS
			1000~26500	-8.58	-43.91	≤-28.58	PASS
		2437	Reference	-8.13	-8.13	---	PASS
			30~1000	-8.13	-60.66	≤-28.13	PASS
			1000~26500	-8.13	-44.29	≤-28.13	PASS
		2462	Reference	-7.41	-7.41	---	PASS
			30~1000	-7.41	-60.5	≤-27.41	PASS
			1000~26500	-7.41	-44.96	≤-27.41	PASS
11N20SISO	Ant1	2412	Reference	-8.52	-8.52	---	PASS
			30~1000	-8.52	-60.59	≤-28.52	PASS
			1000~26500	-8.52	-43.87	≤-28.52	PASS
		2437	Reference	-7.28	-7.28	---	PASS
			30~1000	-7.28	-60.55	≤-27.28	PASS
			1000~26500	-7.28	-44.28	≤-27.28	PASS
		2462	Reference	-7.95	-7.95	---	PASS
			30~1000	-7.95	-59.66	≤-27.95	PASS
			1000~26500	-7.95	-44.88	≤-27.95	PASS
11N40SISO	Ant1	2422	Reference	-11.28	-11.28	---	PASS
			30~1000	-11.28	-63.61	≤-31.28	PASS
			1000~26500	-11.28	-44.02	≤-31.28	PASS
		2437	Reference	-11.17	-11.17	---	PASS
			30~1000	-11.17	-62.82	≤-31.17	PASS
			1000~26500	-11.17	-44.25	≤-31.17	PASS
		2452	Reference	-11.32	-11.32	---	PASS
			30~1000	-11.32	-62.66	≤-31.32	PASS
			1000~26500	-11.32	-44.61	≤-31.32	PASS

Test Graphs

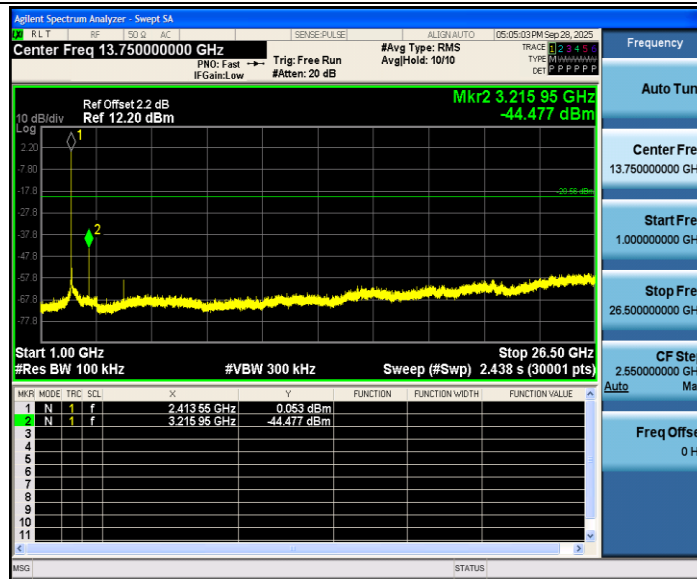
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



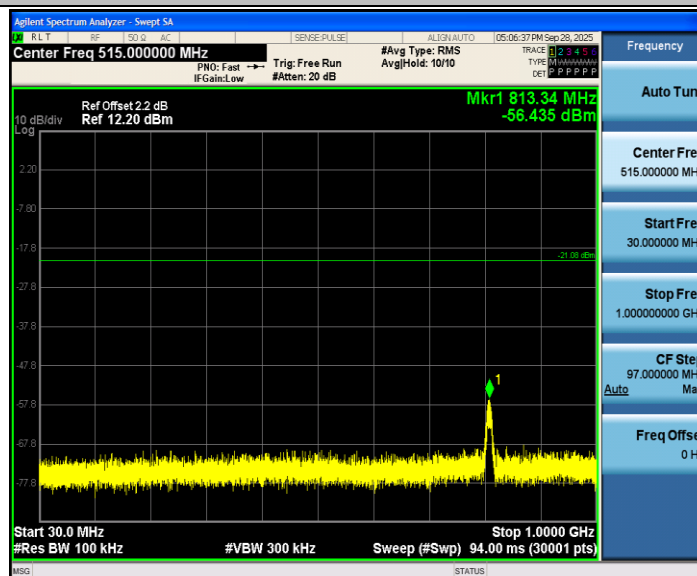
11B_Ant1_2412_1000~26500



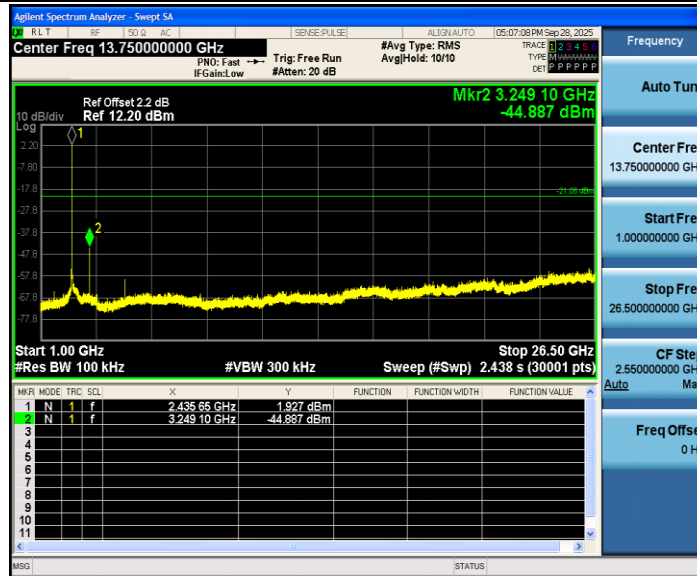
11B_Ant1_2437_0~Reference



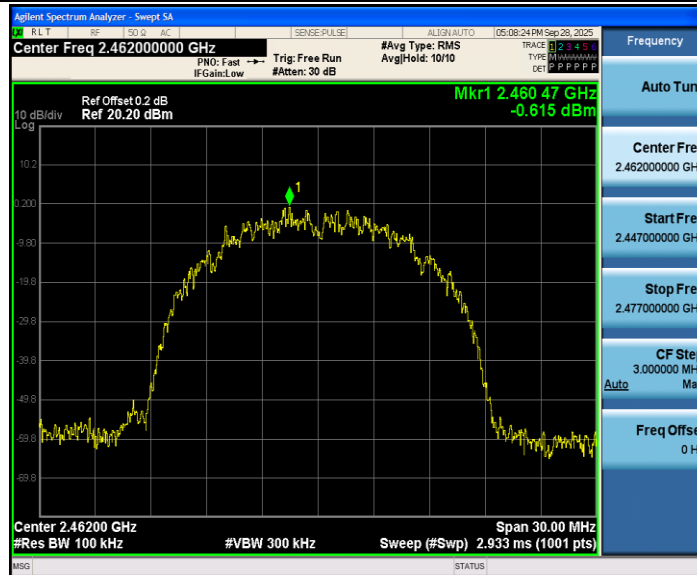
11B_Ant1_2437_30~1000



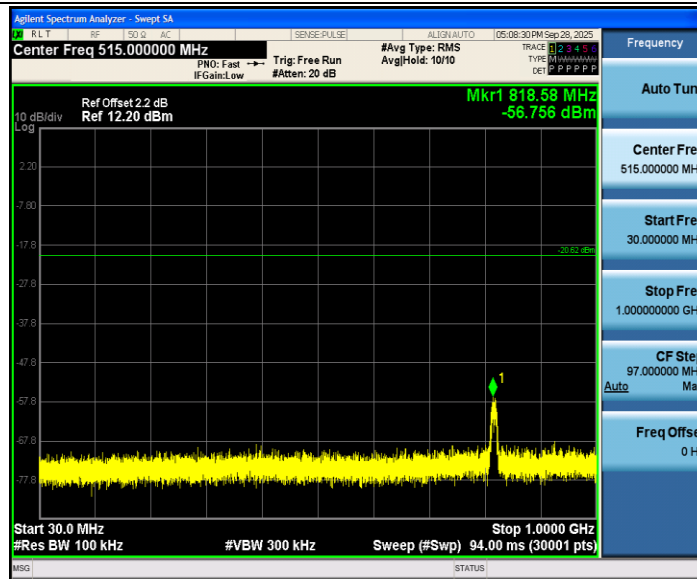
11B_Ant1_2437_1000~26500



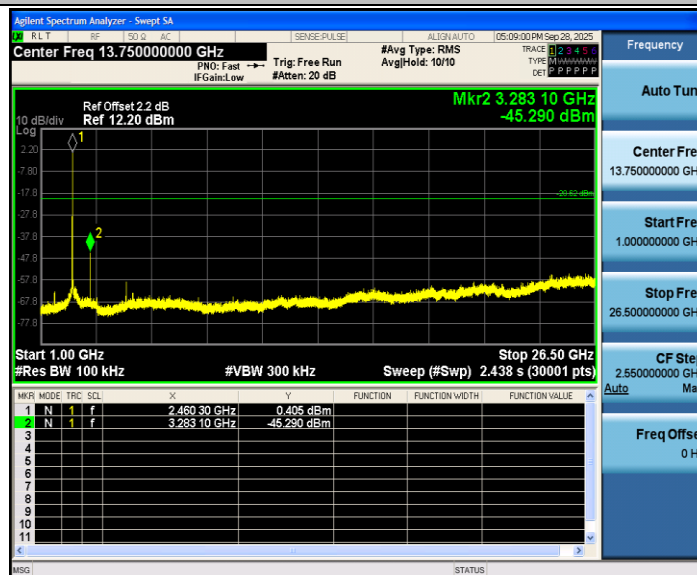
11B_Ant1_2462_0~Reference



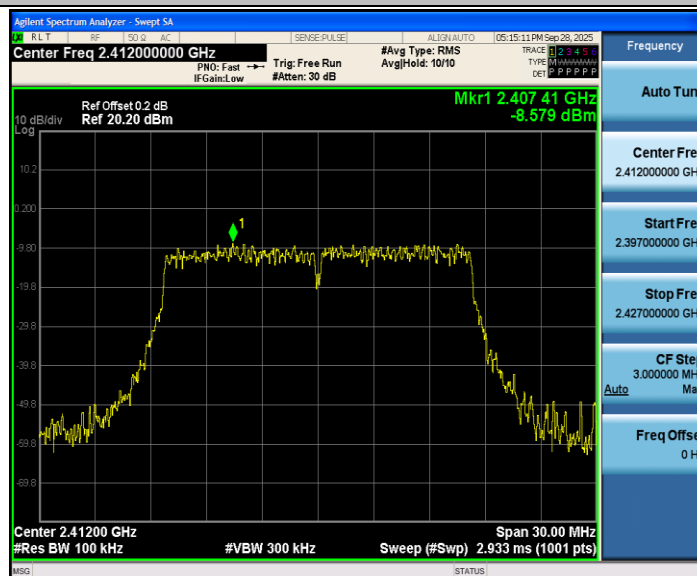
11B_Ant1_2462_30~1000



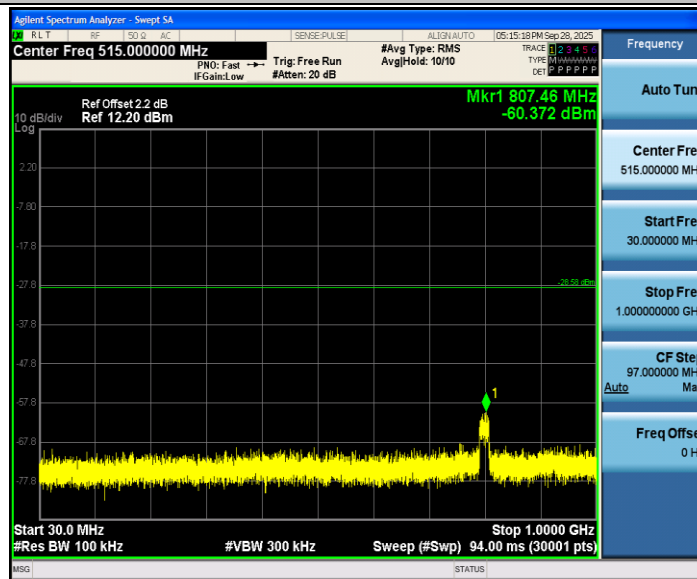
11B_Ant1_2462_1000~26500



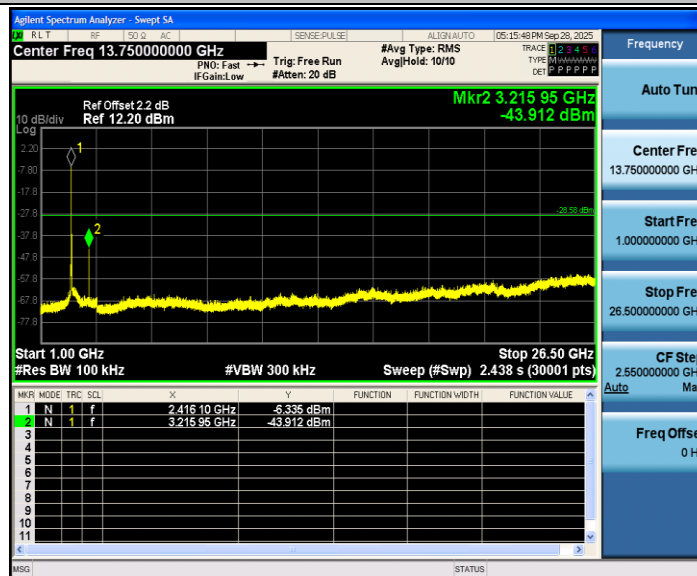
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



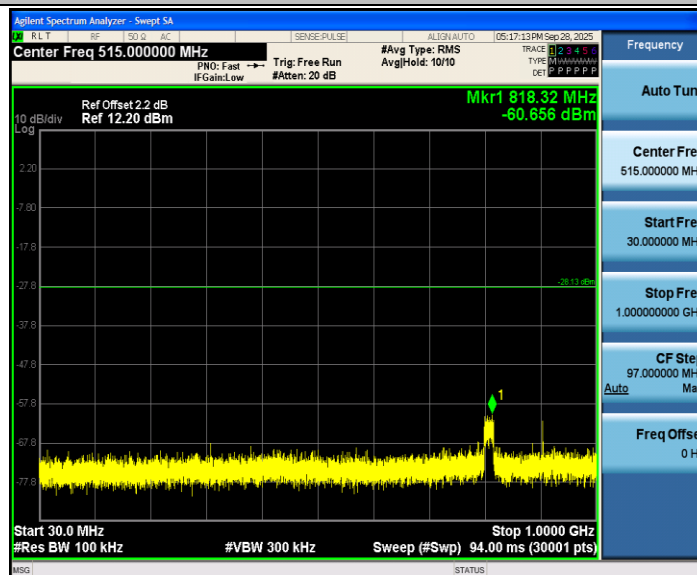
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

