

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BQZB-G1668-01

Company : Shenzhen GPD Technology Co., Ltd.

EUT : Micro Computer

Model Number : G1668-01

Report No. : CTA26070200303

Reviewed By : Eric Wang

Appendix RF Test Data for 2.4GWIFI ANT1

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	10.160	2431.960	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.400	2404.280	2419.680	0.5	PASS
		2437	15.880	2429.120	2445.000	0.5	PASS
		2462	15.240	2454.600	2469.840	0.5	PASS
11N20SISO	Ant1	2412	16.840	2403.680	2420.520	0.5	PASS
		2437	16.640	2428.720	2445.360	0.5	PASS
		2462	17.000	2453.400	2470.400	0.5	PASS
11N40SISO	Ant1	2422	33.760	2405.840	2439.600	0.5	PASS
		2437	35.760	2419.320	2455.080	0.5	PASS
		2452	35.920	2434.160	2470.080	0.5	PASS

Test Graphs

11B_Ant1_2412



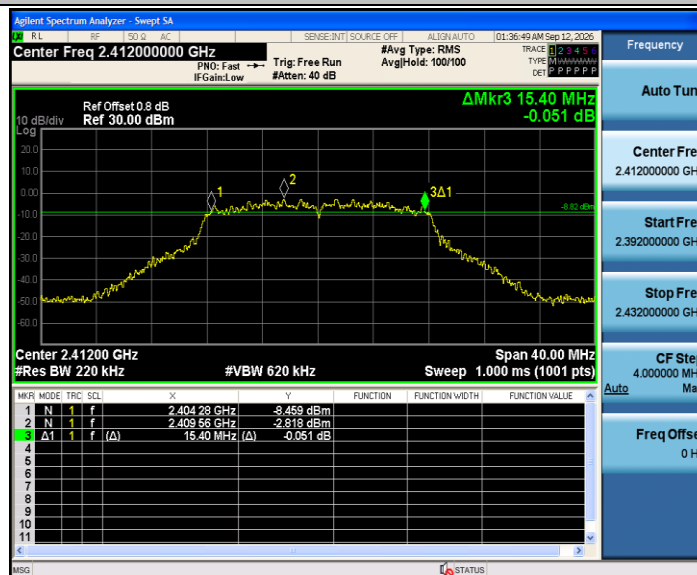
11B_Ant1_2437



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



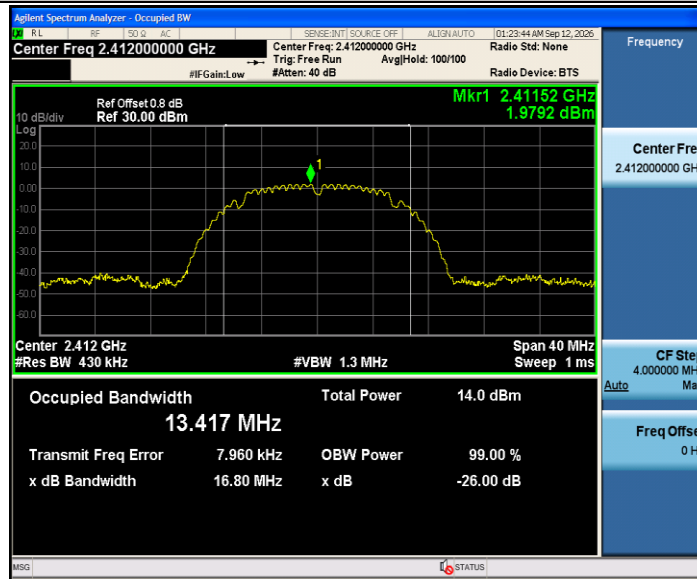
Appendix B: Occupied Channel Bandwidth

Test Result

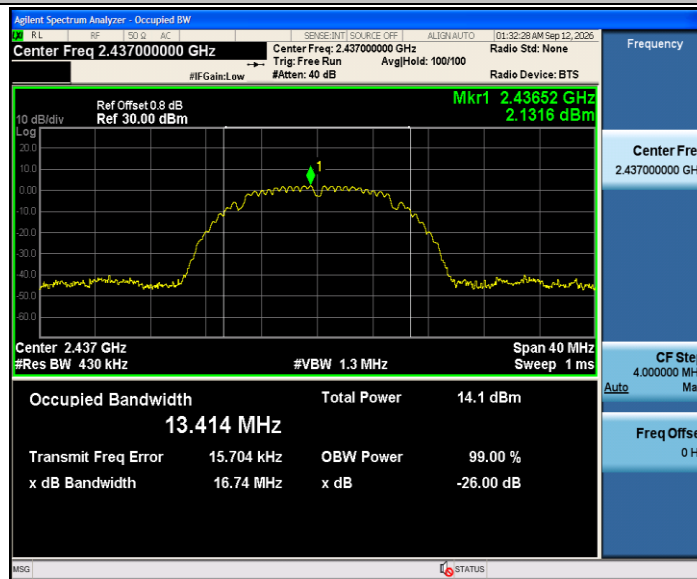
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.417	2405.2995	2418.7165	---	---
		2437	13.414	2430.3087	2443.7227	---	---
		2462	13.415	2455.3178	2468.7328	---	---
11G	Ant1	2412	16.840	2403.6022	2420.4422	---	---
		2437	16.807	2428.6574	2445.4644	---	---
		2462	16.869	2453.5905	2470.4595	---	---
11N20SISO	Ant1	2412	17.861	2403.1059	2420.9669	---	---
		2437	17.884	2428.0534	2445.9374	---	---
		2462	17.876	2453.1243	2471.0003	---	---
11N40SISO	Ant1	2422	36.053	2404.0986	2440.1516	---	---
		2437	36.065	2419.0997	2455.1647	---	---
		2452	36.037	2434.1246	2470.1616	---	---

Test Graphs

11B_Ant1_2412



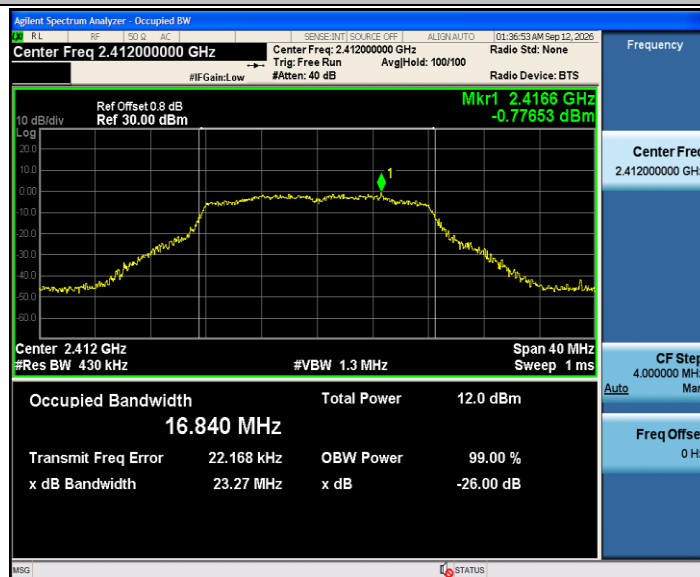
11B_Ant1_2437



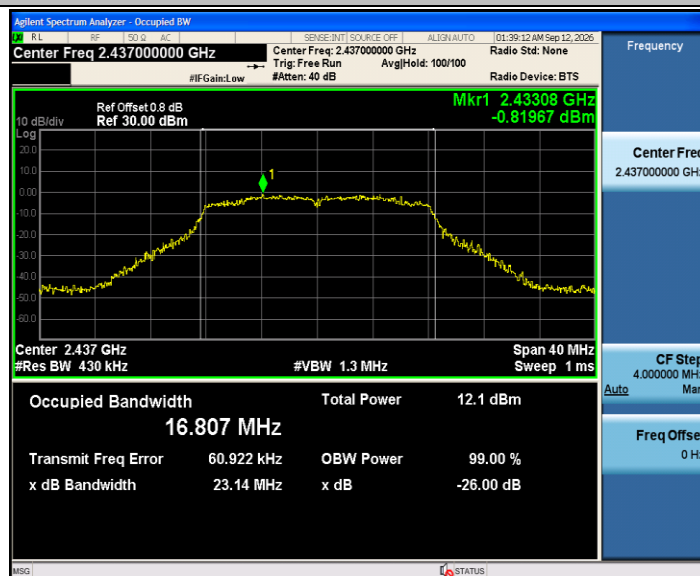
11B_Ant1_2462



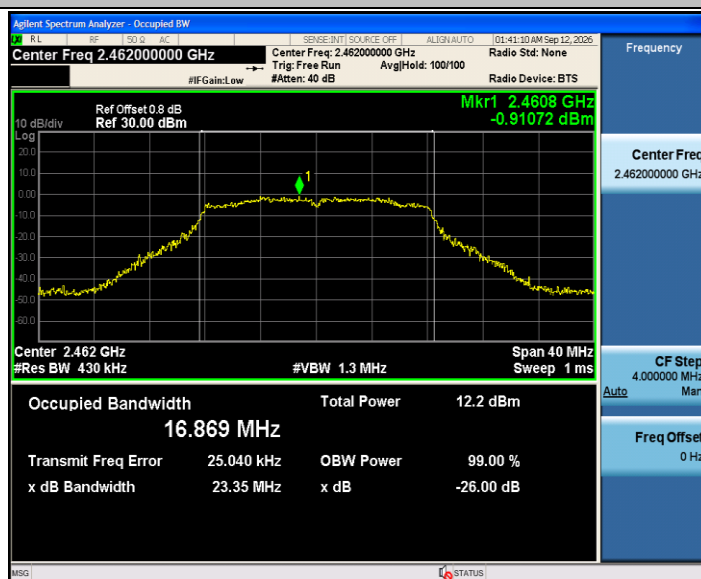
11G_Ant1_2412



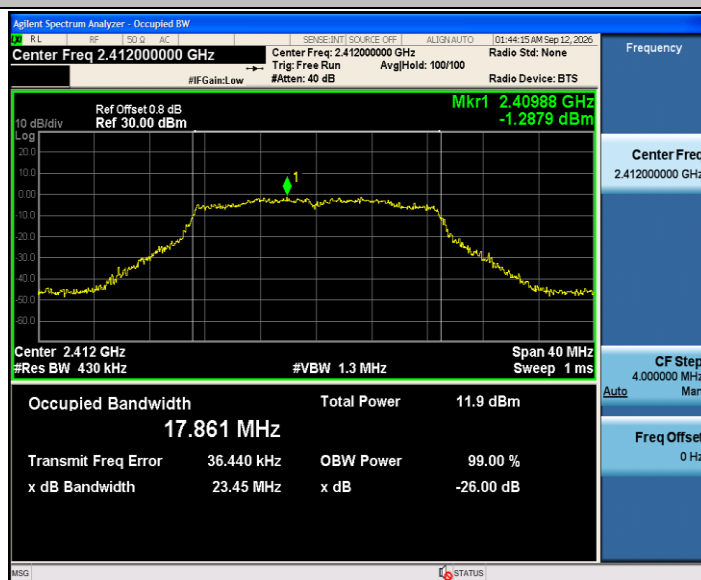
11G_Ant1_2437



11G_Ant1_2462



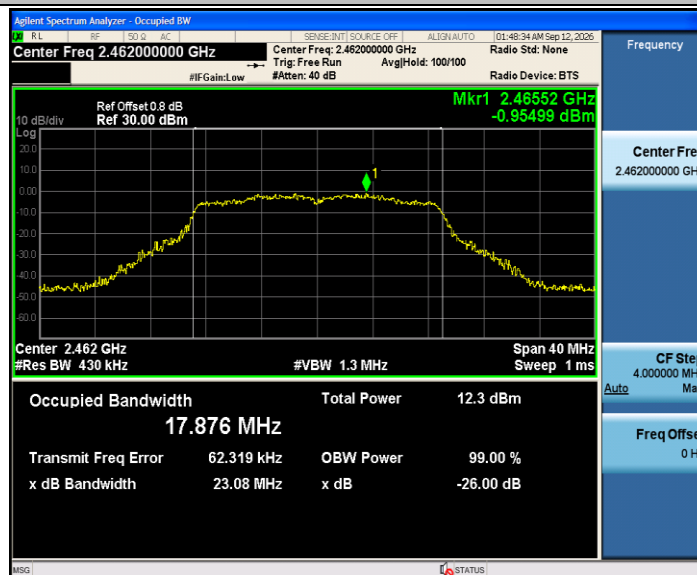
11N20SISO_Ant1_2412



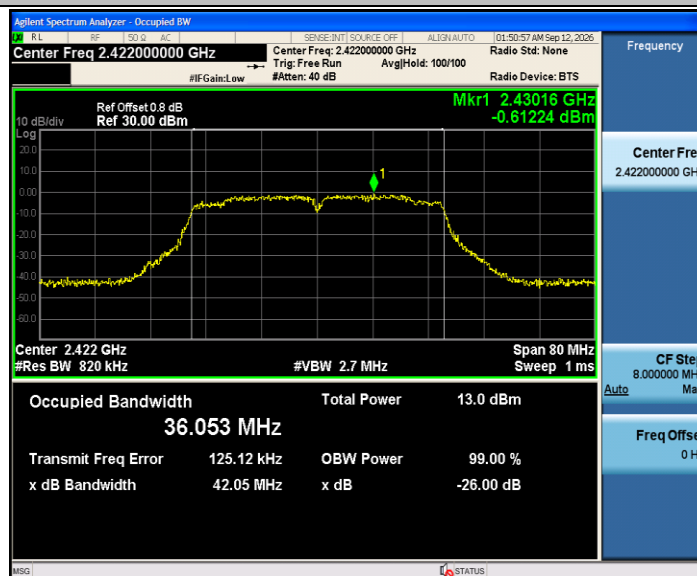
11N20SISO_Ant1_2437



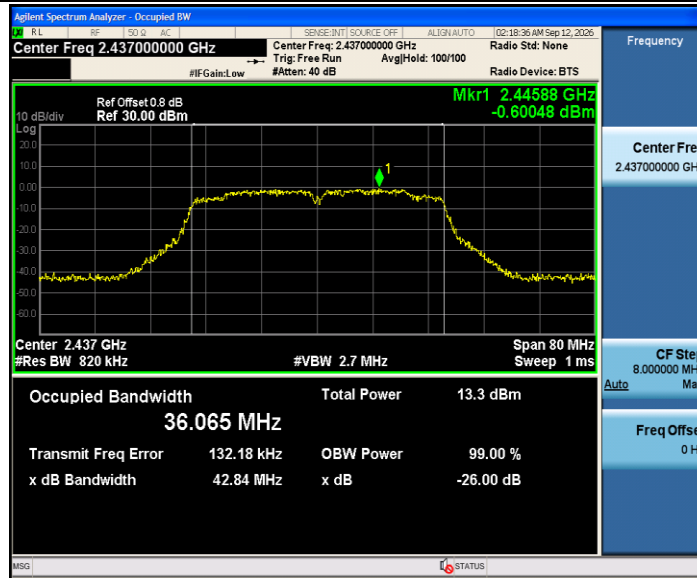
11N20SISO_Ant1_2462



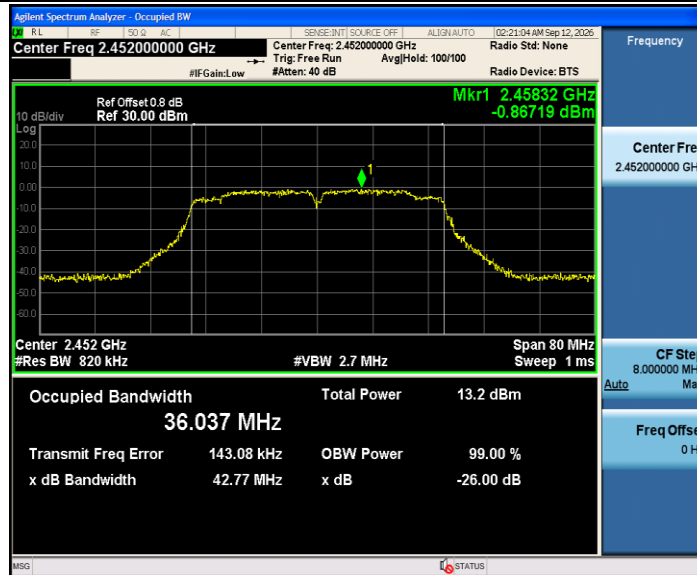
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.65	≤30.00	PASS
		2437	13.78	≤30.00	PASS
		2462	13.92	≤30.00	PASS
11G	Ant1	2412	12.84	≤30.00	PASS
		2437	13.13	≤30.00	PASS
		2462	13.20	≤30.00	PASS
11N20SISO	Ant1	2412	12.76	≤30.00	PASS
		2437	12.91	≤30.00	PASS
		2462	13.13	≤30.00	PASS
11N40SISO	Ant1	2422	13.04	≤30.00	PASS
		2437	13.44	≤30.00	PASS
		2452	13.35	≤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	-12.46	≤8.00	PASS
		2437	-11.44	≤8.00	PASS
		2462	-11.25	≤8.00	PASS
11G	Ant1	2412	-18.86	≤8.00	PASS
		2437	-18.26	≤8.00	PASS
		2462	-18.07	≤8.00	PASS
11N20SISO	Ant1	2412	-18.06	≤8.00	PASS
		2437	-19.41	≤8.00	PASS
		2462	-17.03	≤8.00	PASS
11N40SISO	Ant1	2422	-20.91	≤8.00	PASS
		2437	-20.26	≤8.00	PASS
		2452	-20.88	≤8.00	PASS

Test Graphs

11B_Ant1_2412



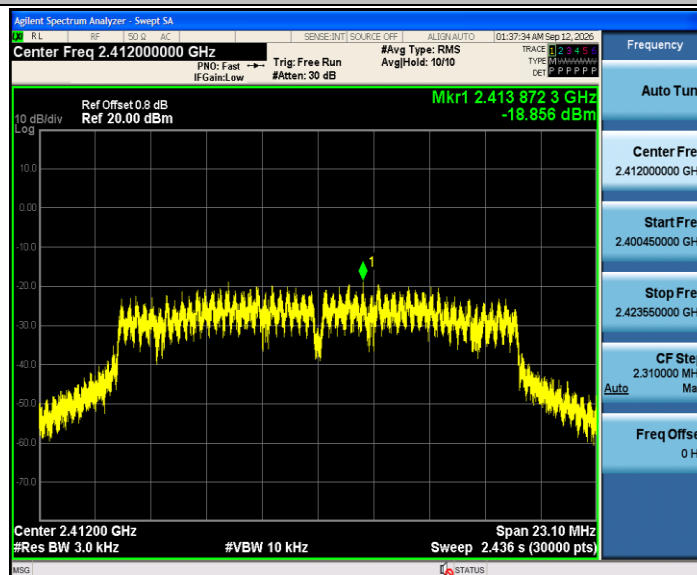
11B_Ant1_2437



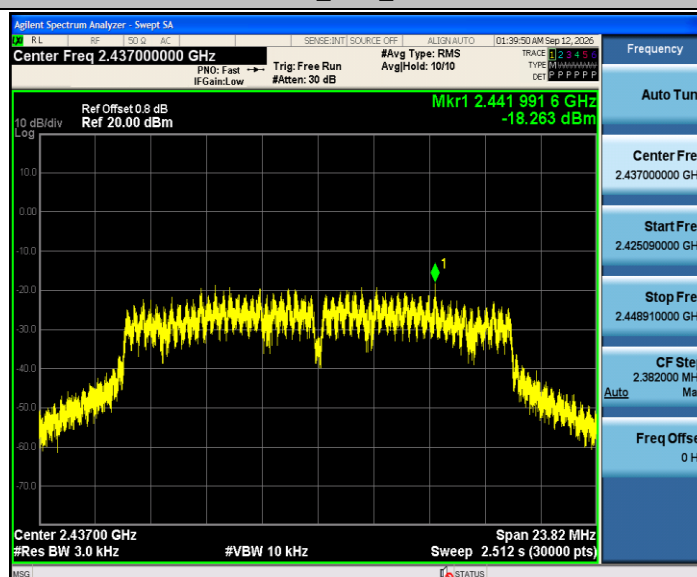
11B_Ant1_2462



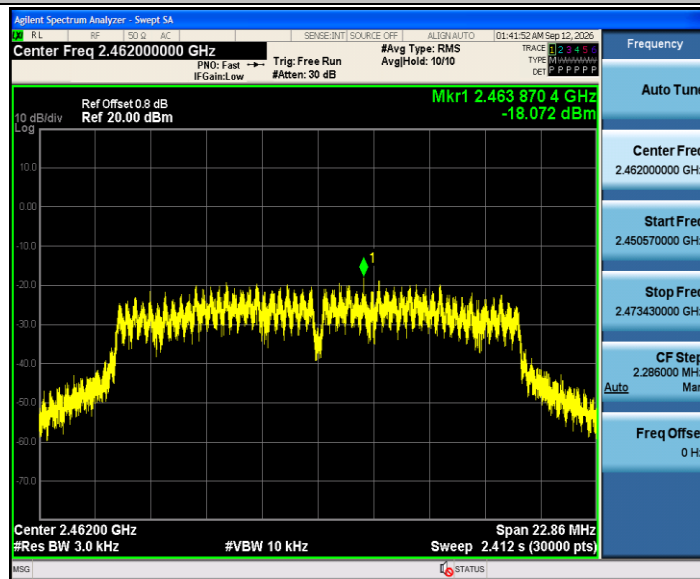
11G_Ant1_2412



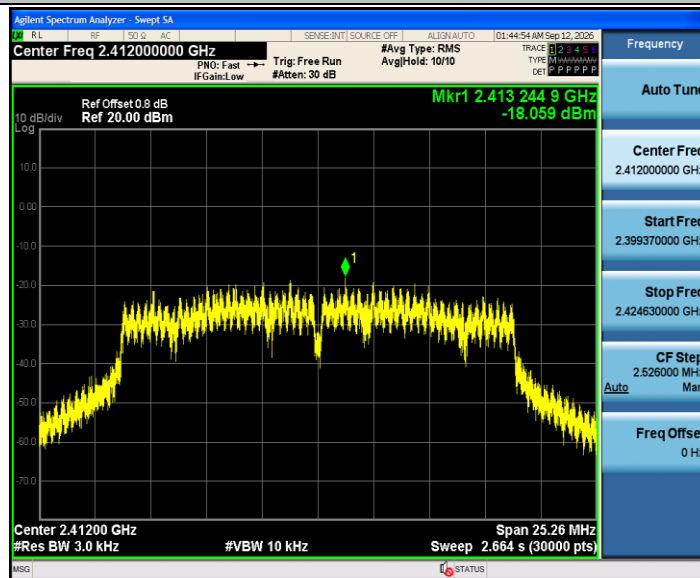
11G_Ant1_2437



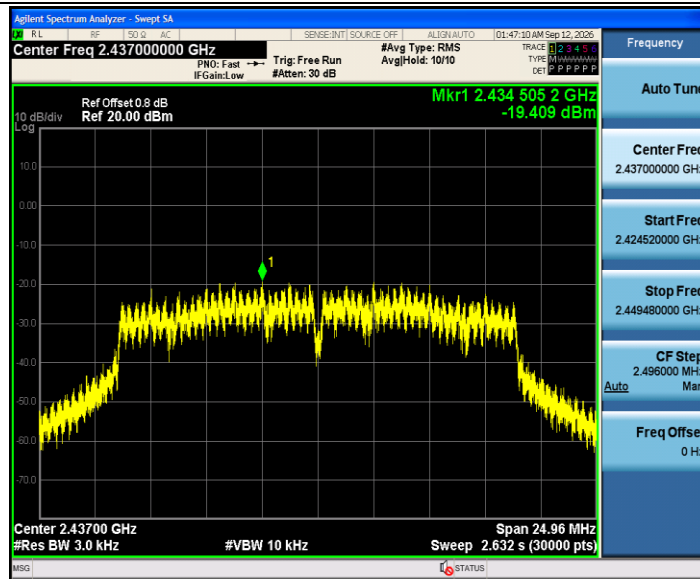
11G_Ant1_2462



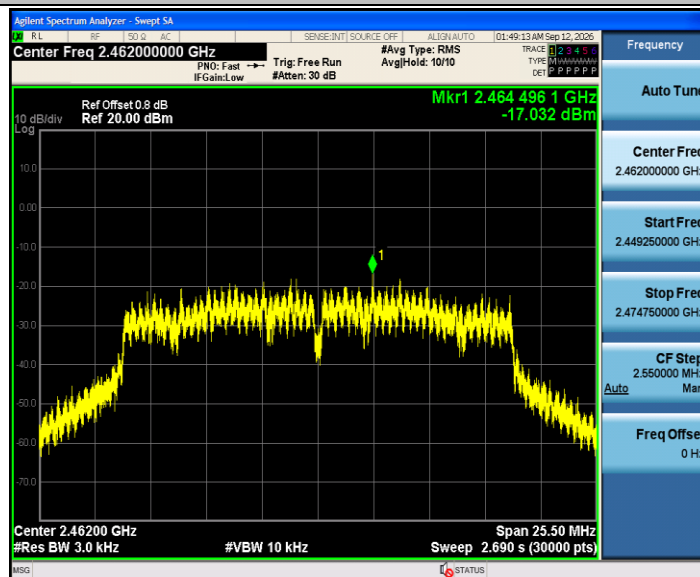
11N20SISO_Ant1_2412



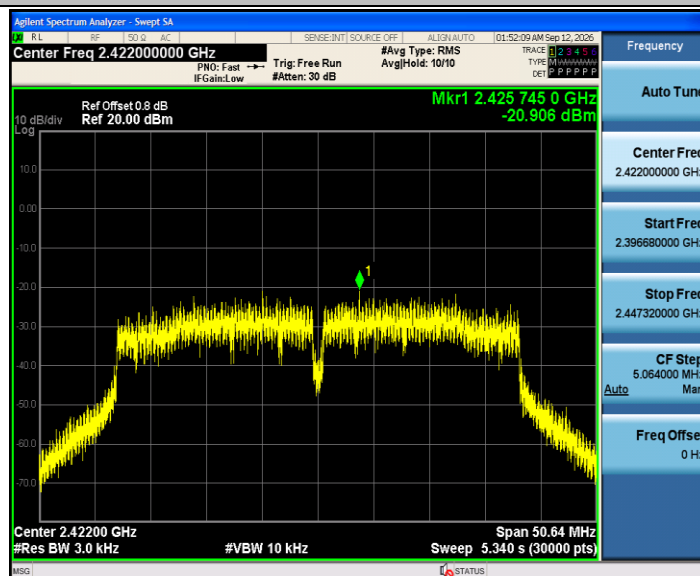
11N20SISO_Ant1_2437



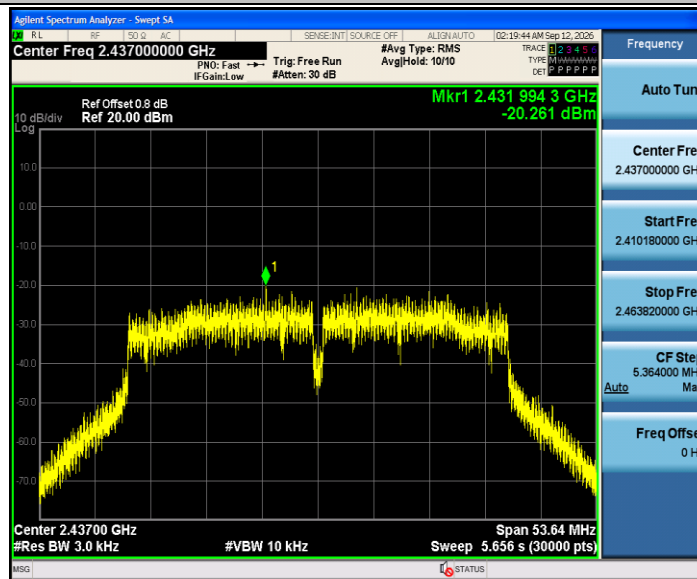
11N20SISO_Ant1_2462



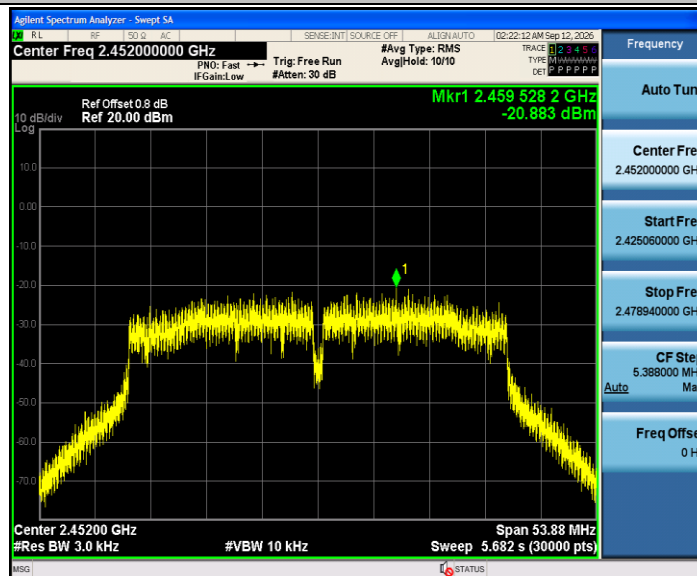
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



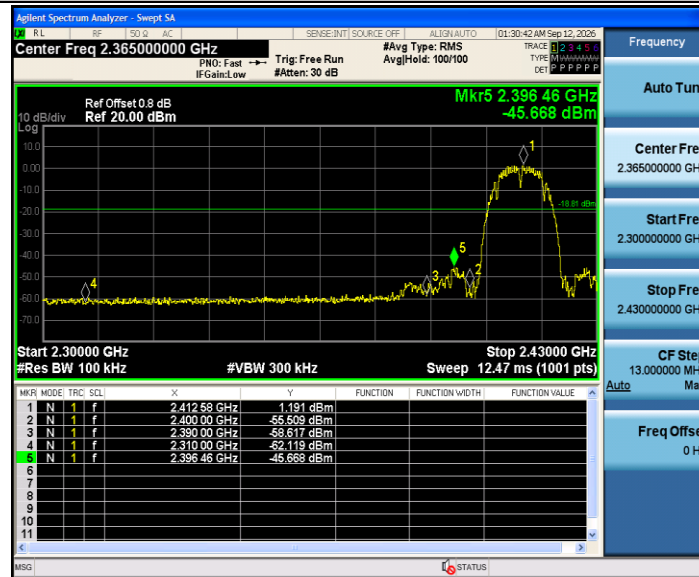
Appendix E: Band edge measurements

Test Result

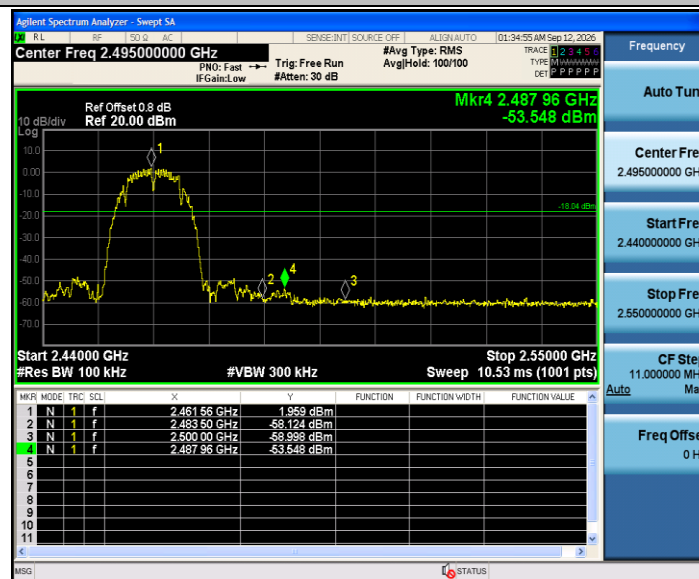
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.19	-45.67	≤-18.81	PASS
		High	2462	1.96	-53.55	≤-18.04	PASS
11G	Ant1	Low	2412	-3.65	-35.19	≤-23.65	PASS
		High	2462	-3.51	-57.8	≤-23.51	PASS
11N20SISO	Ant1	Low	2412	-3.88	-35.1	≤-23.88	PASS
		High	2462	-3.06	-57.87	≤-23.06	PASS
11N40SISO	Ant1	Low	2422	-6.81	-35.04	≤-26.81	PASS
		High	2452	-6.49	-56.79	≤-26.49	PASS

Test Graphs

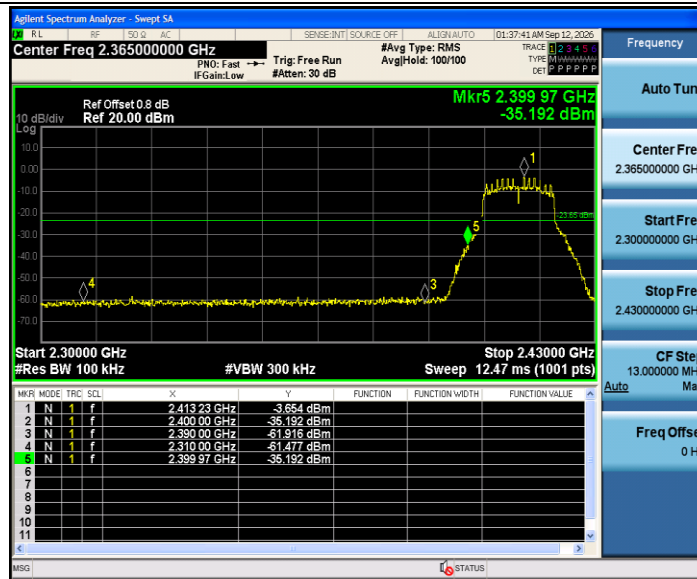
11B_Ant1_Low_2412



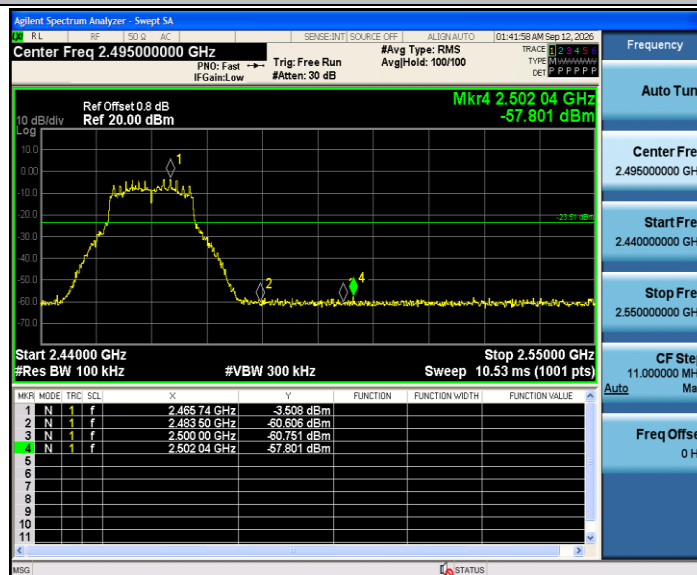
11B_Ant1_High_2462



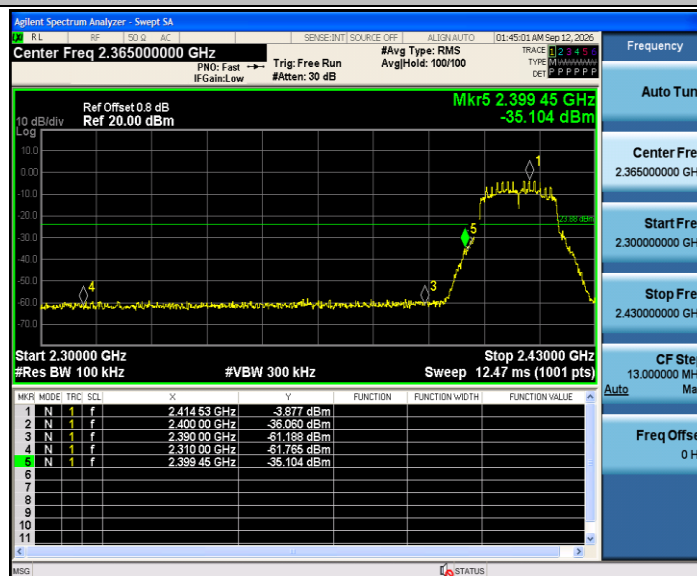
11G_Ant1_Low_2412



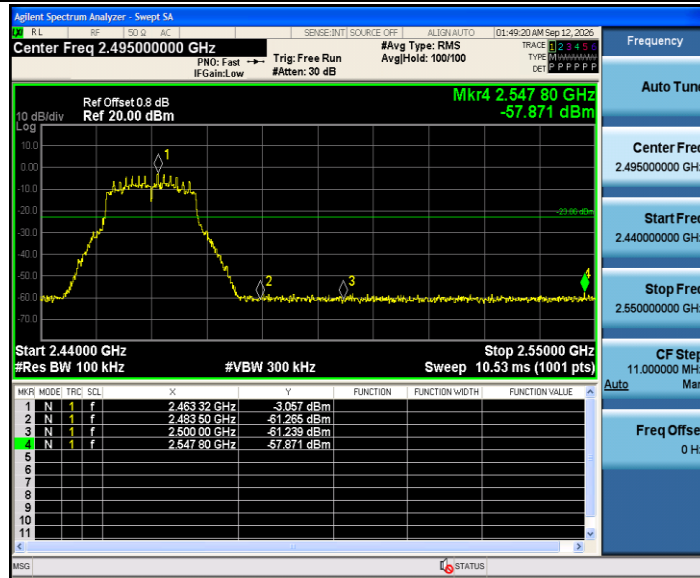
11G_Ant1_High_2462



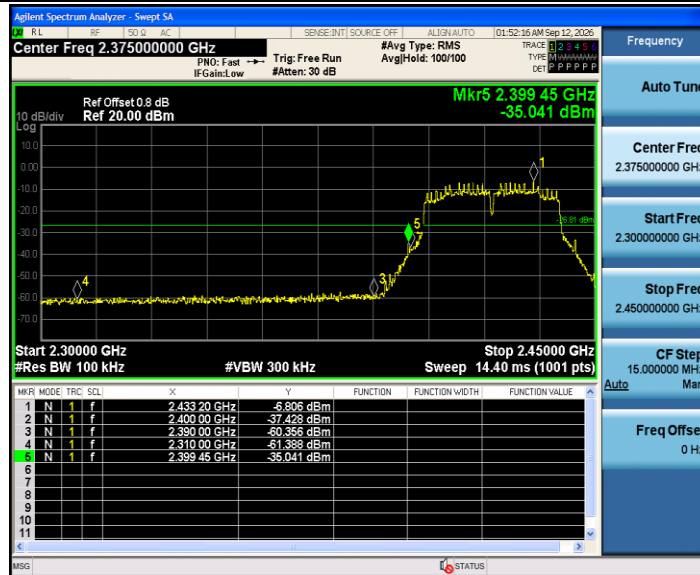
11N20SISO_Ant1_Low_2412



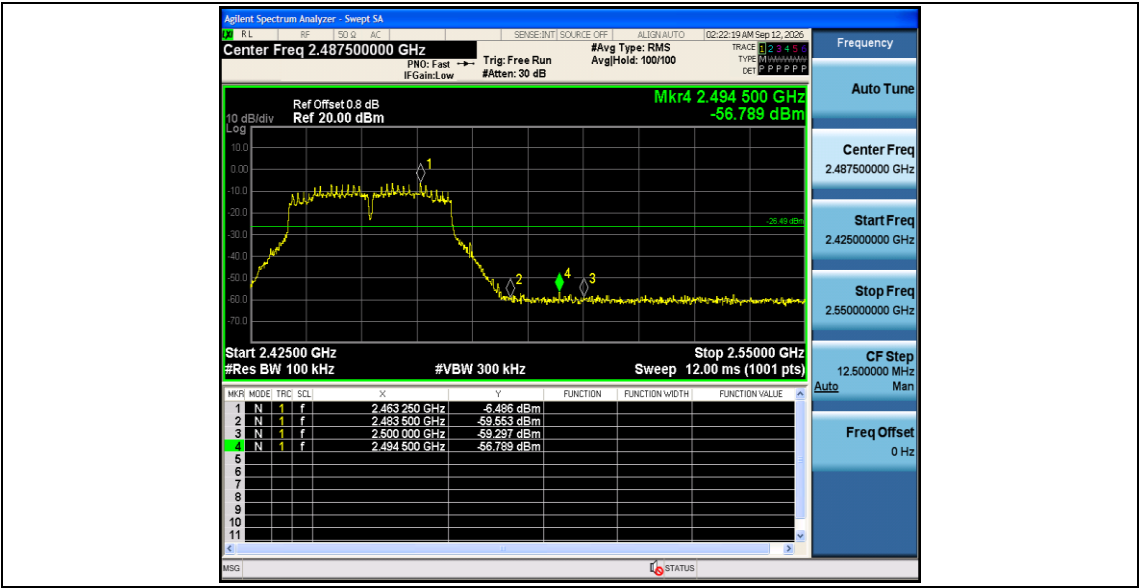
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

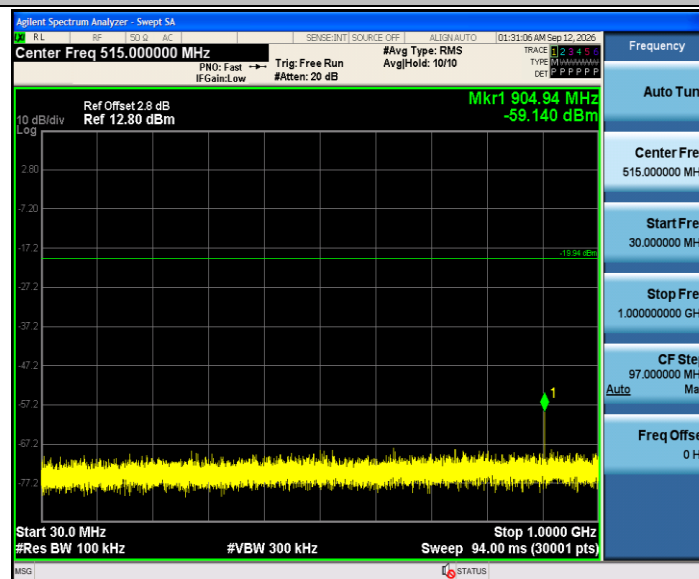
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-59.14	≤-19.94	PASS
			1000~26500	0.06	-46.44	≤-19.94	PASS
		2437	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-68.56	≤-19.01	PASS
			1000~26500	0.99	-46.2	≤-19.01	PASS
		2462	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-67.61	≤-18.19	PASS
			1000~26500	1.81	-46	≤-18.19	PASS
11G	Ant1	2412	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-68.44	≤-24.77	PASS
			1000~26500	-4.77	-46.23	≤-24.77	PASS
		2437	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-67.42	≤-23.41	PASS
			1000~26500	-3.41	-46.49	≤-23.41	PASS
		2462	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-64.5	≤-23.58	PASS
			1000~26500	-3.58	-46.89	≤-23.58	PASS
11N20SISO	Ant1	2412	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-68.16	≤-24.13	PASS
			1000~26500	-4.13	-45.52	≤-24.13	PASS
		2437	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-67.56	≤-24.11	PASS
			1000~26500	-4.11	-46.35	≤-24.11	PASS
		2462	Reference	-3.13	-3.13	---	PASS
			30~1000	-3.13	-68.17	≤-23.13	PASS
			1000~26500	-3.13	-46.27	≤-23.13	PASS
11N40SISO	Ant1	2422	Reference	-7.14	-7.14	---	PASS
			30~1000	-7.14	-68.24	≤-27.14	PASS
			1000~26500	-7.14	-46.3	≤-27.14	PASS
		2437	Reference	-7.04	-7.04	---	PASS
			30~1000	-7.04	-67.46	≤-27.04	PASS
			1000~26500	-7.04	-46.15	≤-27.04	PASS
		2452	Reference	-6.54	-6.54	---	PASS
			30~1000	-6.54	-68.21	≤-26.54	PASS
			1000~26500	-6.54	-46.37	≤-26.54	PASS

Test Graphs

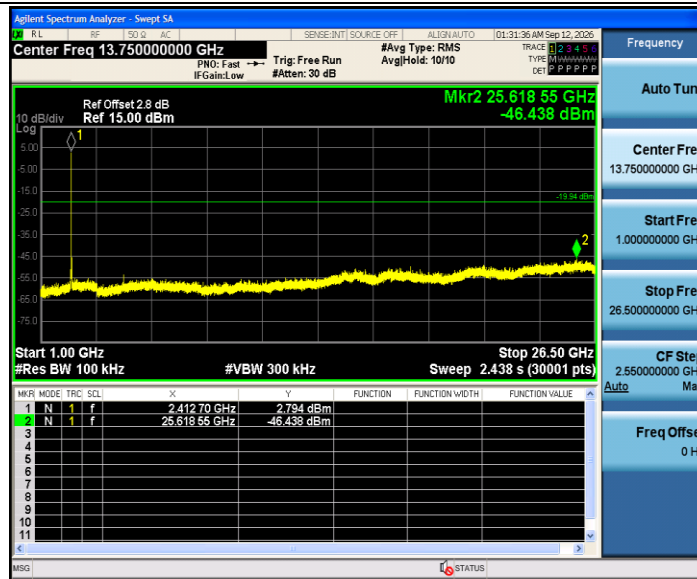
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



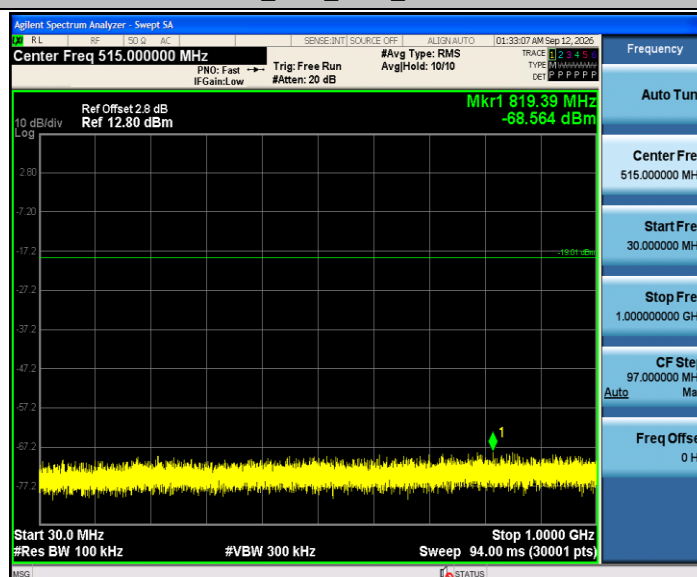
11B_Ant1_2412_1000~26500



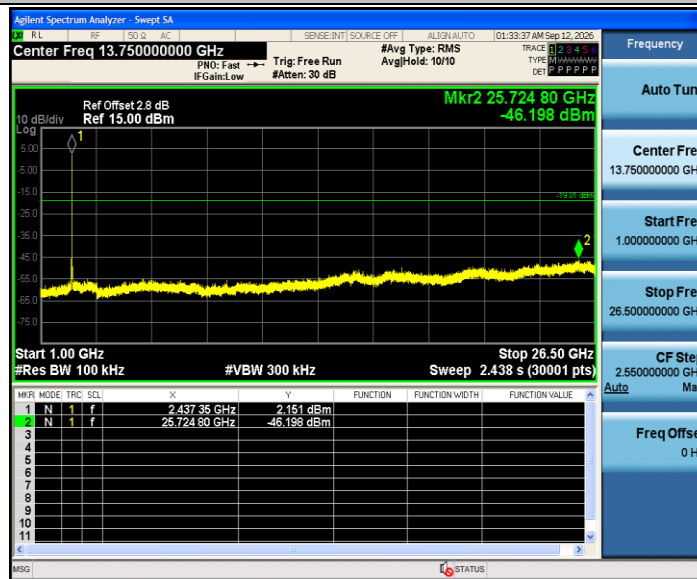
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



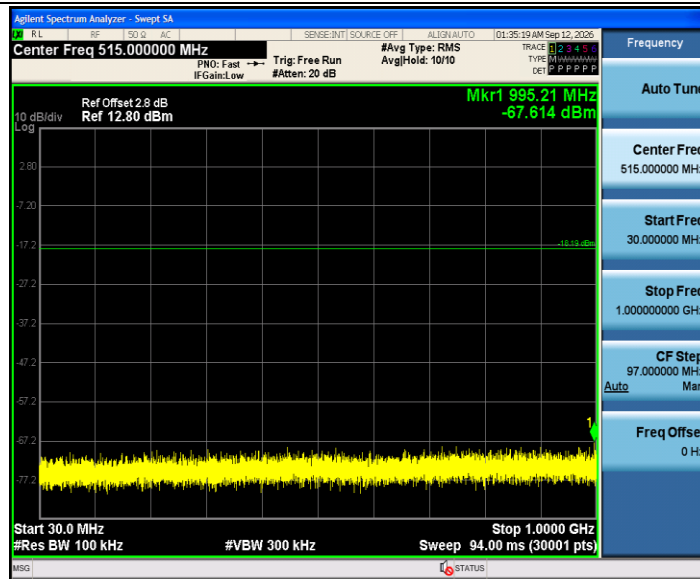
11B_Ant1_2437_1000~26500



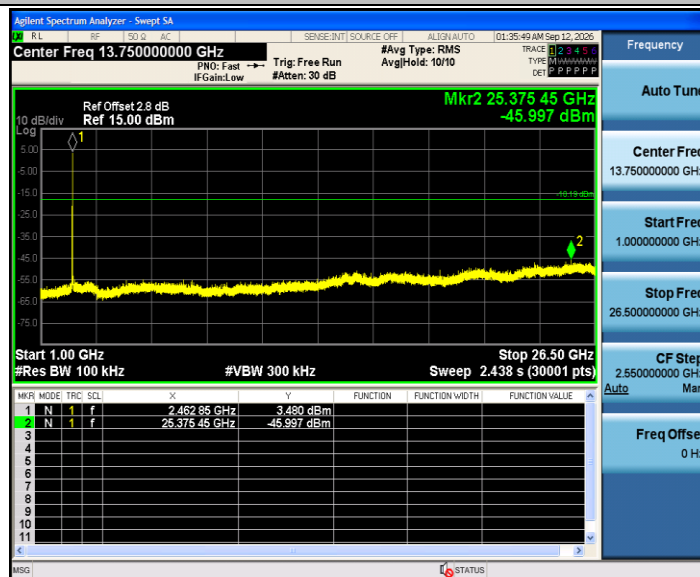
11B_Ant1_2462_0~Reference



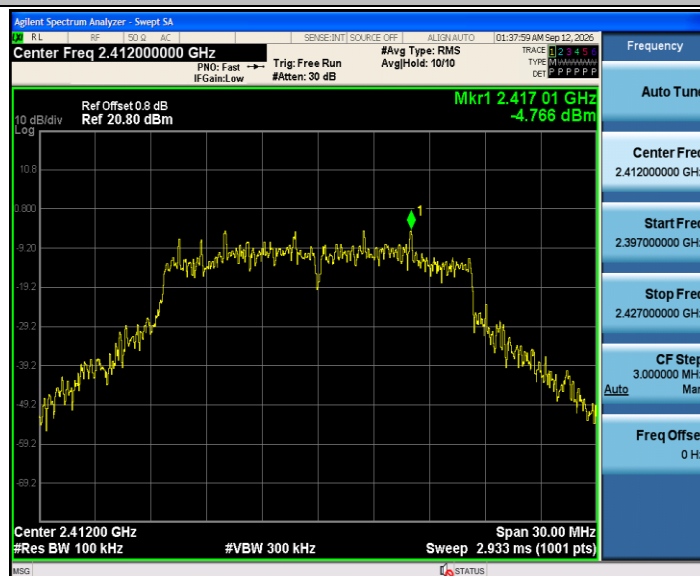
11B_Ant1_2462_30~1000



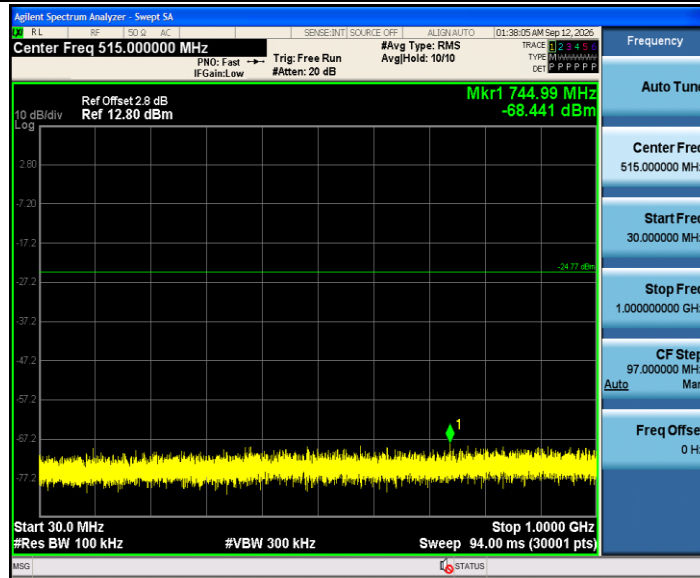
11B_Ant1_2462_1000~26500



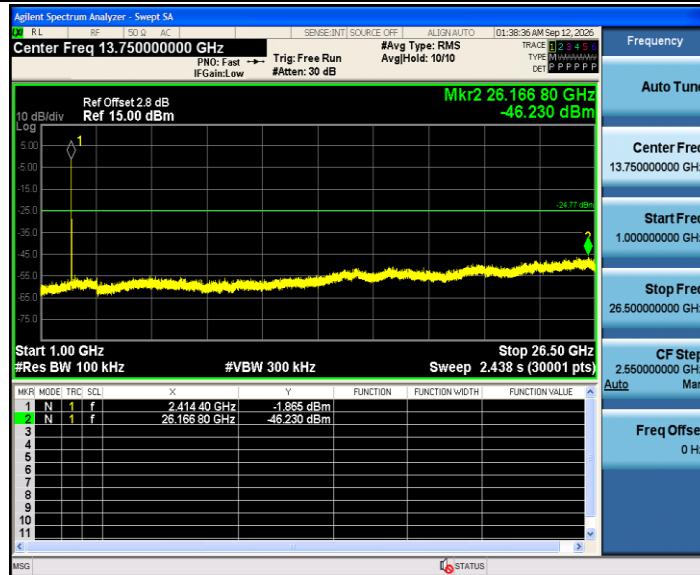
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



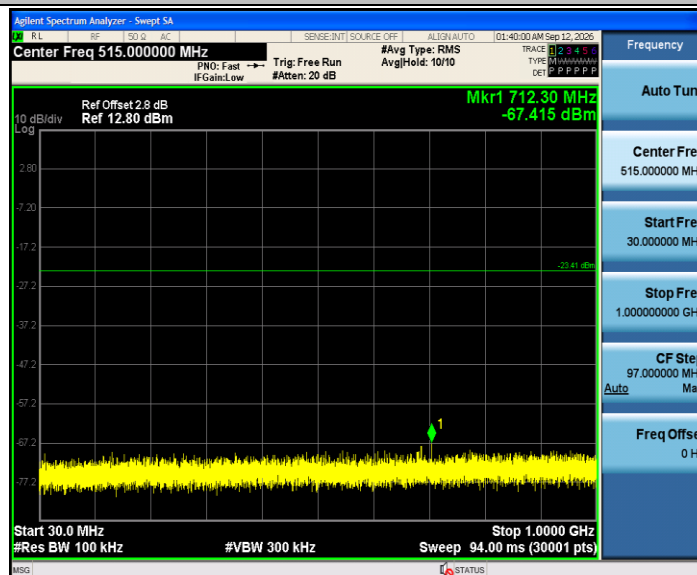
11G_Ant1_2412_1000~26500



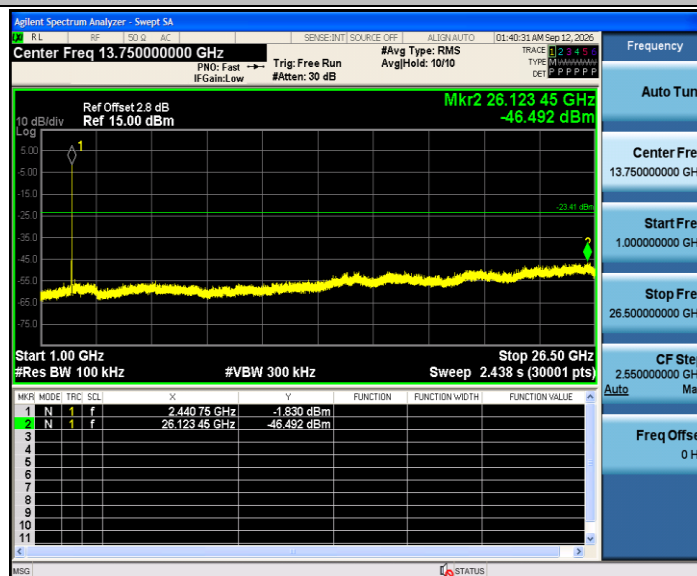
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



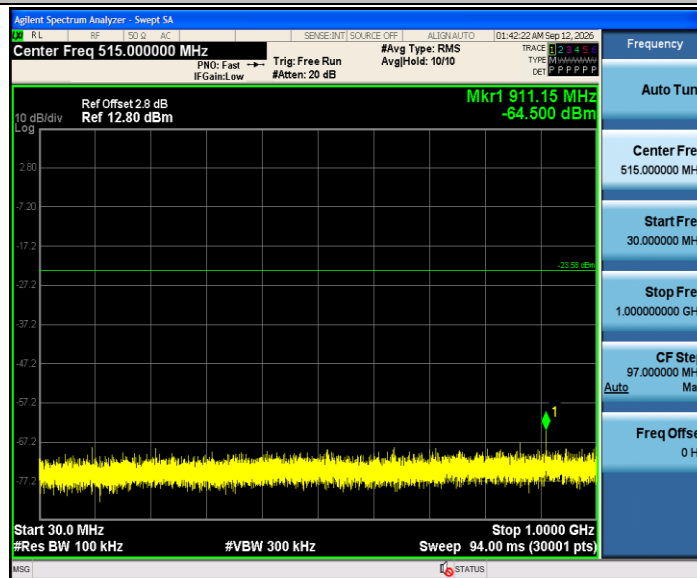
11G_Ant1_2437_1000~26500



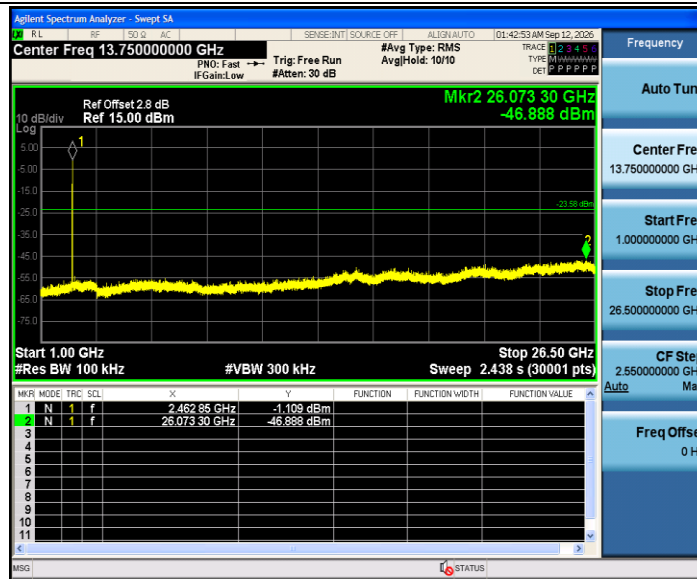
11G_Ant1_2462_0~Reference



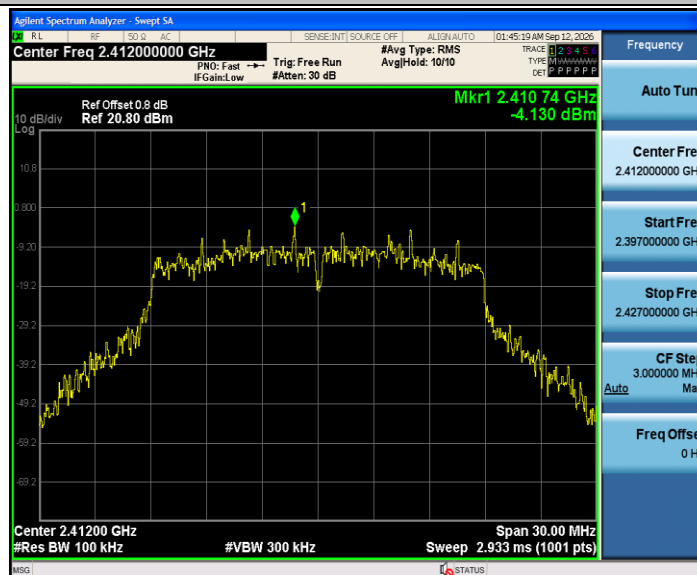
11G_Ant1_2462_30~1000



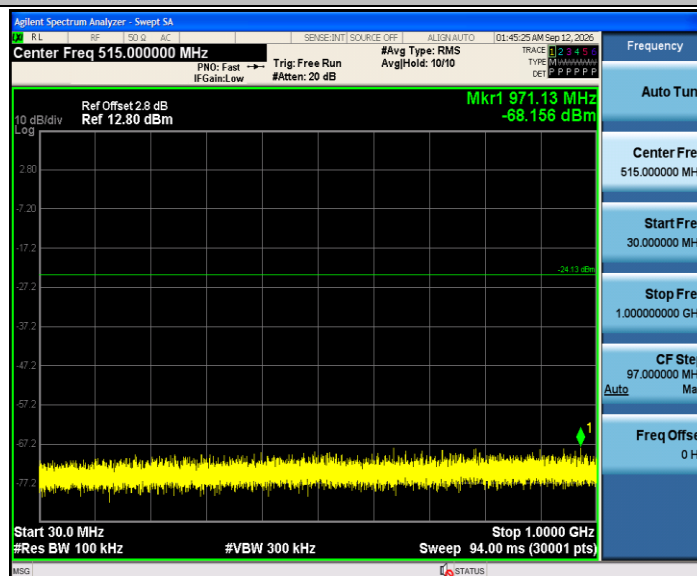
11G_Ant1_2462_1000~26500



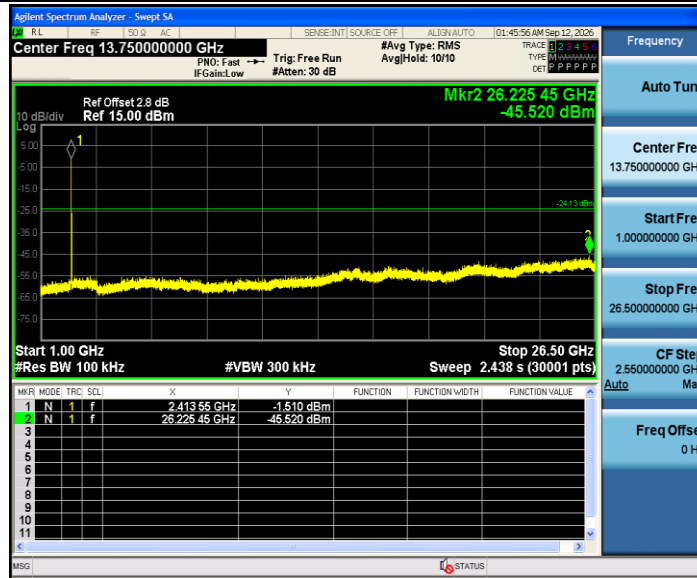
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000