

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BF3Z-E12

Company : Shenzhen Taiyang Technology Co., Ltd

EUT : Headphones

Model Number : E12

Report No. : CTA26072401003

Reviewed By : Eric Wang

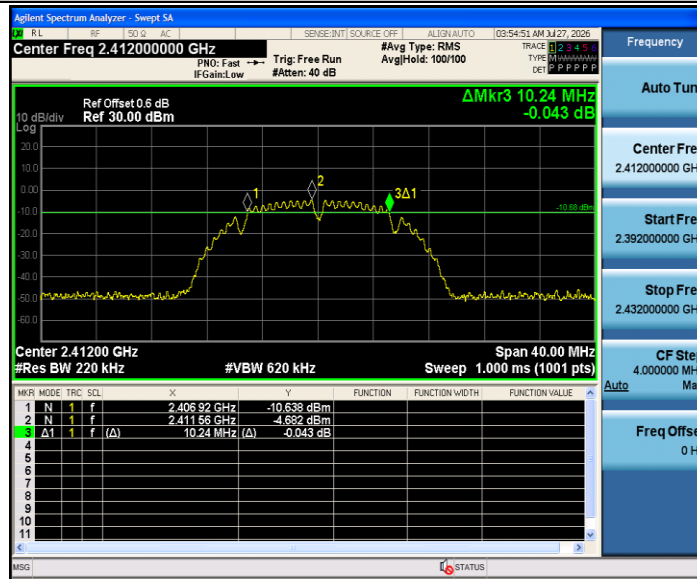
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	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	15.880	2404.000	2419.880	0.5	PASS
		2437	15.640	2429.320	2444.960	0.5	PASS
		2462	15.880	2454.080	2469.960	0.5	PASS
11N20SISO	Ant1	2412	16.640	2403.760	2420.400	0.5	PASS
		2437	17.080	2428.440	2445.520	0.5	PASS
		2462	16.920	2453.680	2470.600	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.280	2419.800	2455.080	0.5	PASS
		2452	34.720	2435.280	2470.000	0.5	PASS

Test Graphs

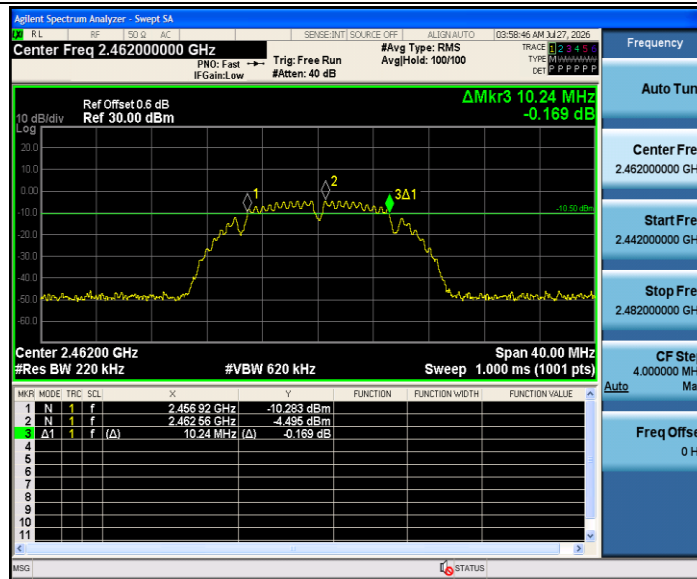
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



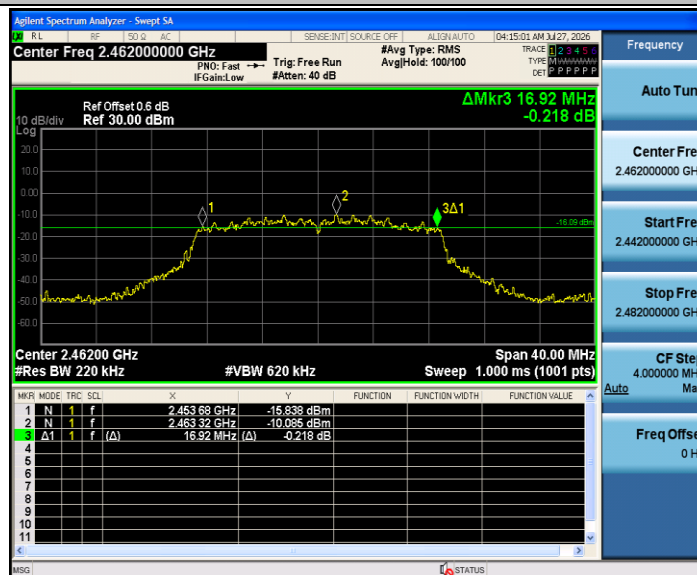
11N20SISO_Ant1_2412



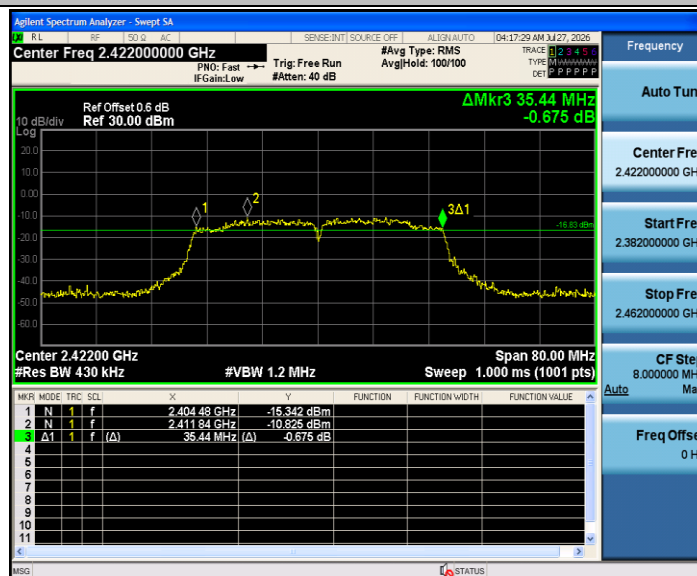
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



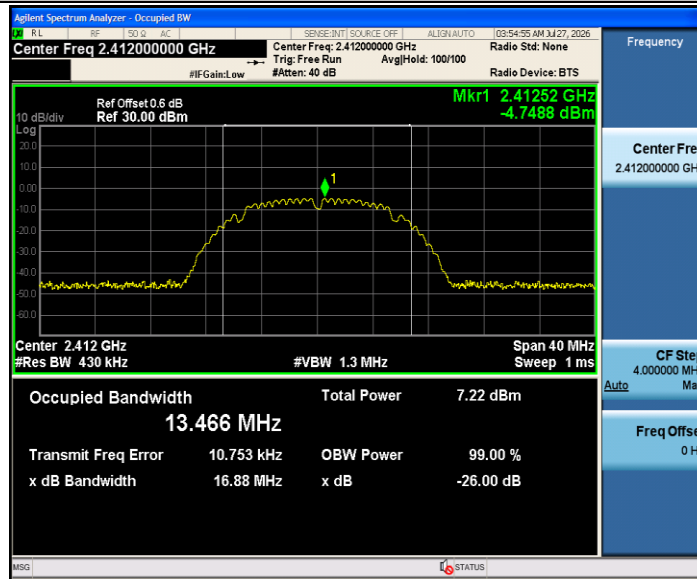
Appendix B: Occupied Channel Bandwidth

Test Result

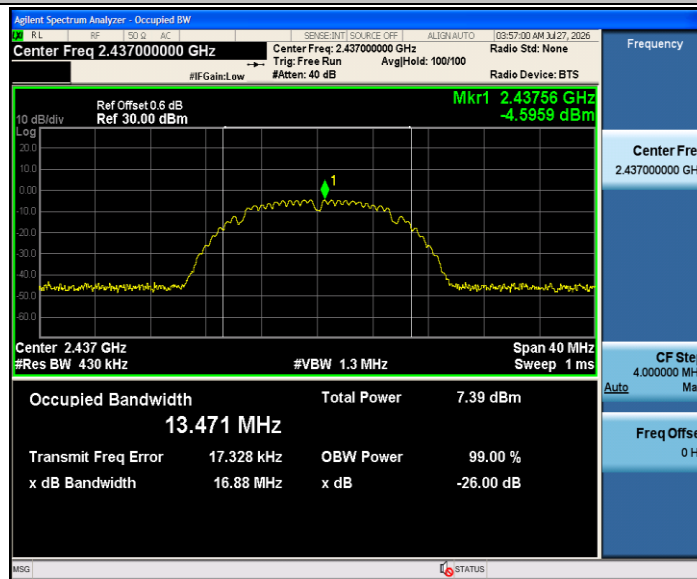
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.466	2405.2778	2418.7438	---	---
		2437	13.471	2430.2818	2443.7528	---	---
		2462	13.453	2455.3061	2468.7591	---	---
11G	Ant1	2412	16.873	2403.6196	2420.4926	---	---
		2437	16.818	2428.6428	2445.4608	---	---
		2462	16.803	2453.6466	2470.4496	---	---
11N20SISO	Ant1	2412	17.886	2403.0879	2420.9739	---	---
		2437	17.876	2428.0764	2445.9524	---	---
		2462	17.925	2453.0359	2470.9609	---	---
11N40SISO	Ant1	2422	36.095	2404.0893	2440.1843	---	---
		2437	36.055	2419.1088	2455.1638	---	---
		2452	36.104	2434.1231	2470.2271	---	---

Test Graphs

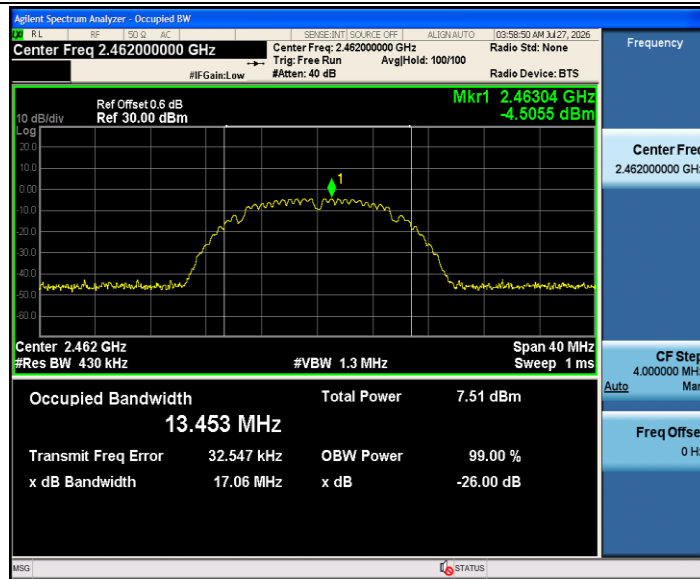
11B_Ant1_2412



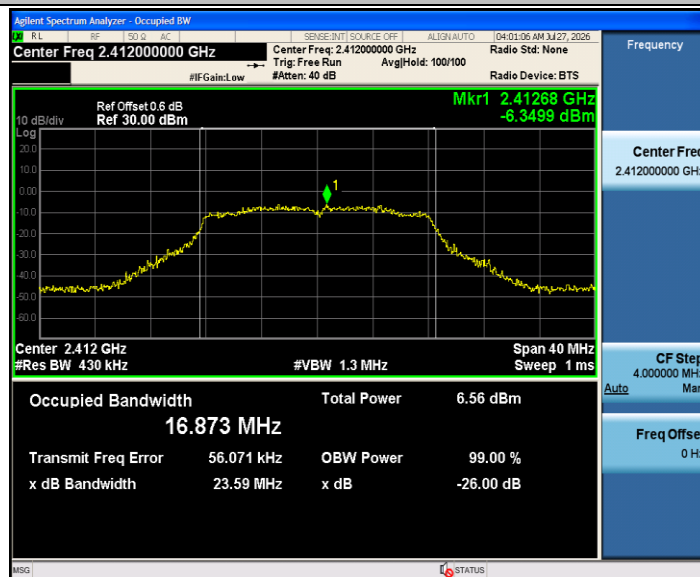
11B_Ant1_2437



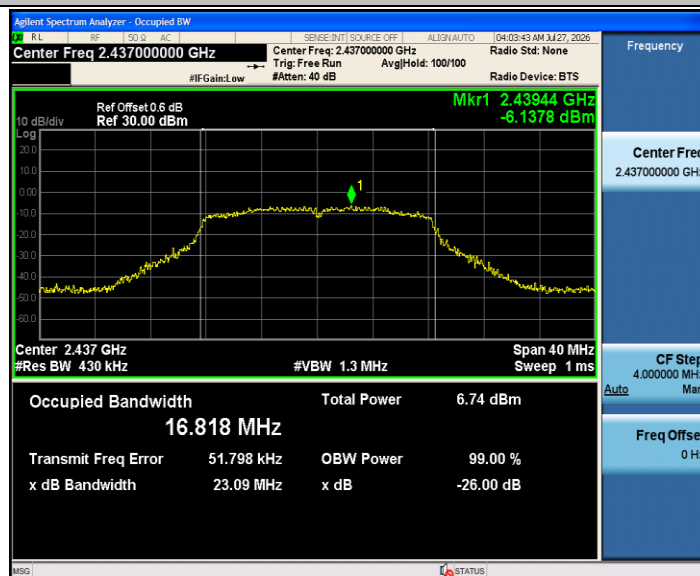
11B_Ant1_2462



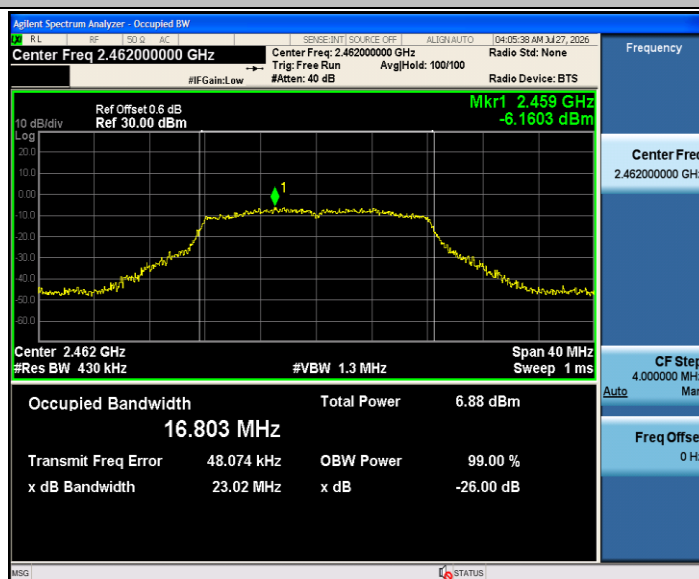
11G_Ant1_2412



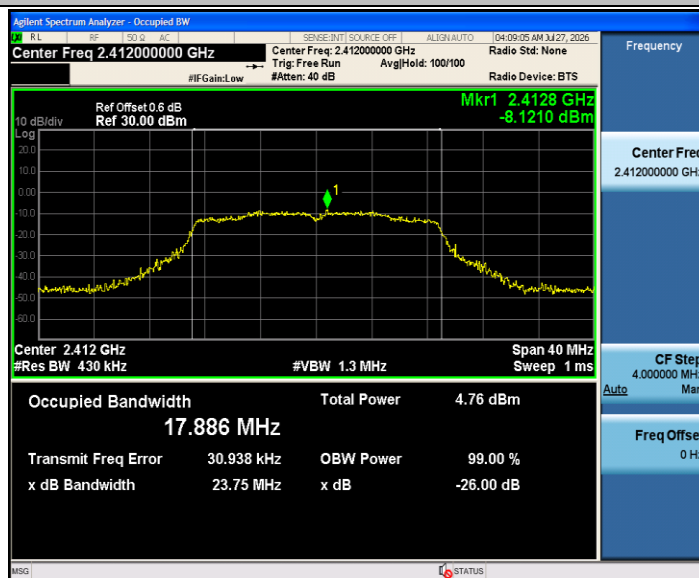
11G_Ant1_2437



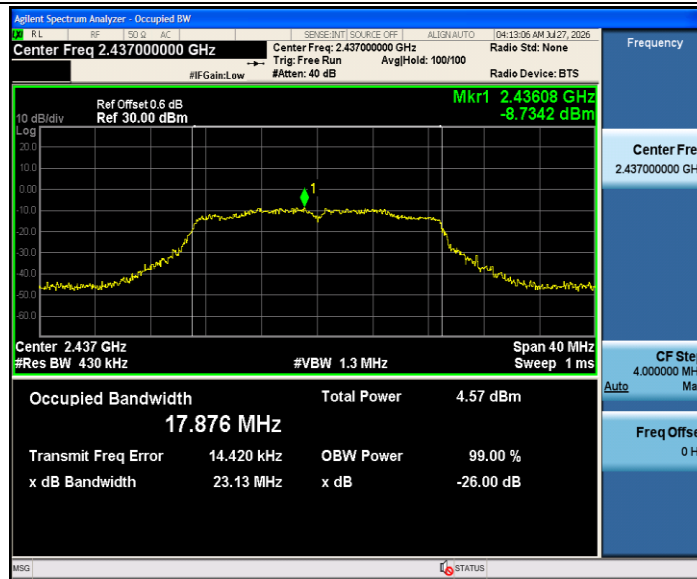
11G_Ant1_2462



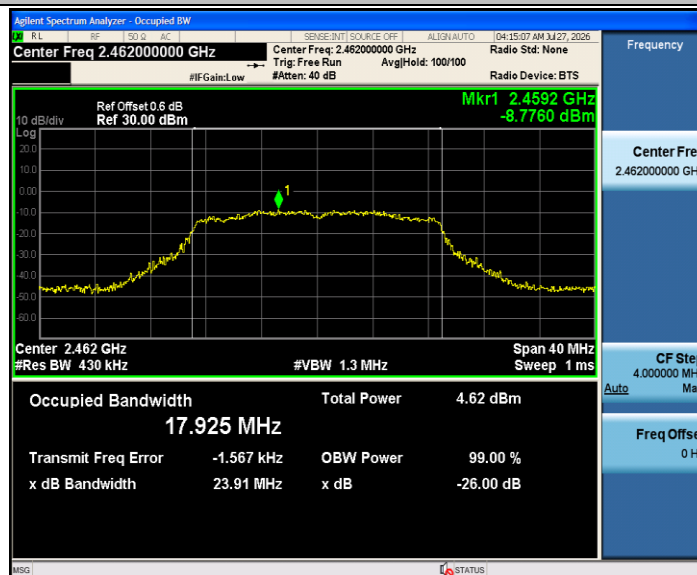
11N20SISO_Ant1_2412



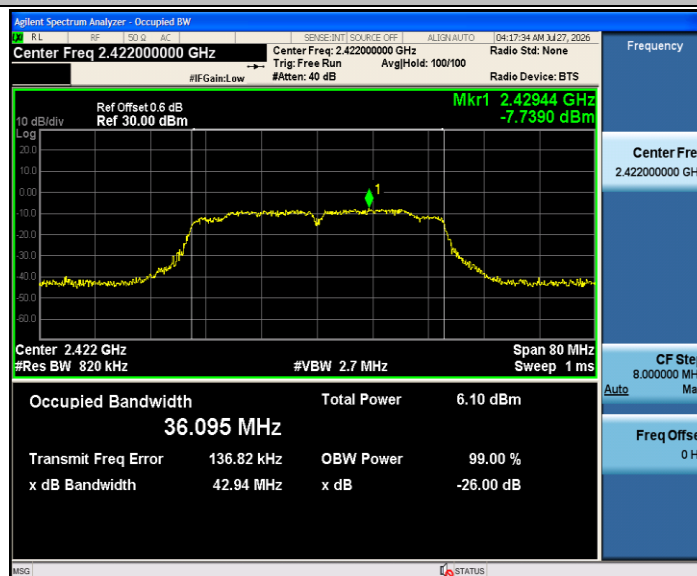
11N20SISO_Ant1_2437



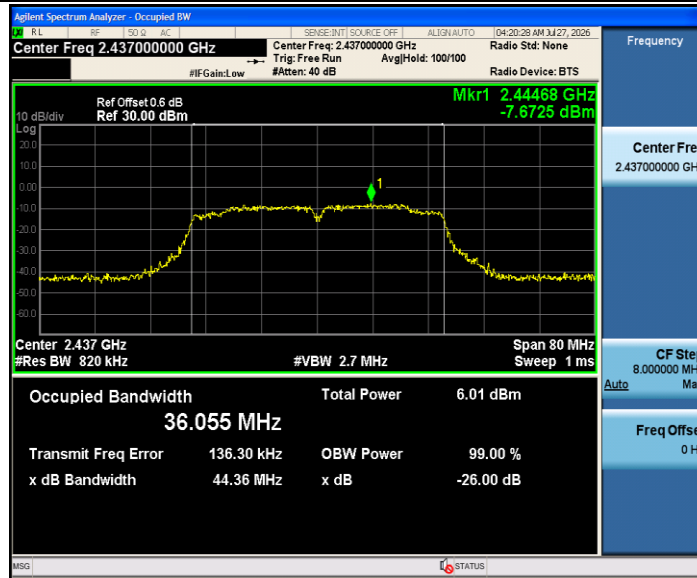
11N20SISO_Ant1_2462



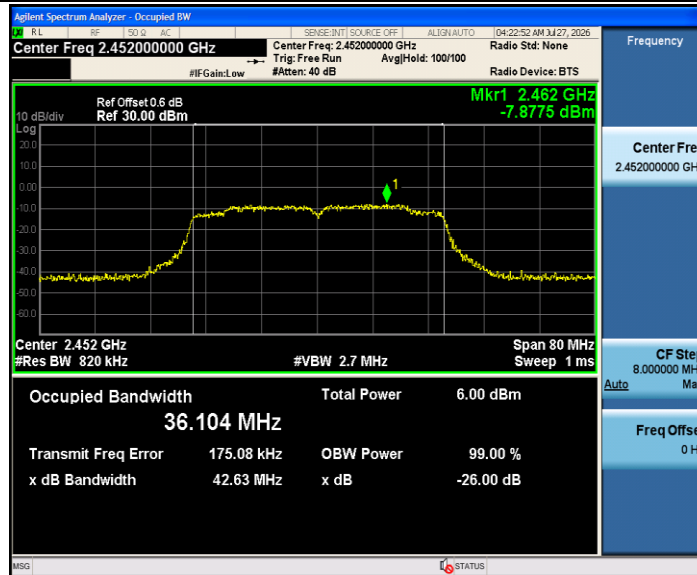
11N40SISO_Ant1_2422



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	6.91	≤30.00	PASS
		2437	7.04	≤30.00	PASS
		2462	7.29	≤30.00	PASS
11G	Ant1	2412	7.36	≤30.00	PASS
		2437	7.84	≤30.00	PASS
		2462	7.92	≤30.00	PASS
11N20SISO	Ant1	2412	5.65	≤30.00	PASS
		2437	5.45	≤30.00	PASS
		2462	5.46	≤30.00	PASS
11N40SISO	Ant1	2422	6.27	≤30.00	PASS
		2437	6.12	≤30.00	PASS
		2452	6.05	≤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	-19.06	≤8.00	PASS
		2437	-19.08	≤8.00	PASS
		2462	-18.48	≤8.00	PASS
11G	Ant1	2412	-23.51	≤8.00	PASS
		2437	-24.25	≤8.00	PASS
		2462	-23.98	≤8.00	PASS
11N20SISO	Ant1	2412	-25.69	≤8.00	PASS
		2437	-25.67	≤8.00	PASS
		2462	-24.40	≤8.00	PASS
11N40SISO	Ant1	2422	-27.84	≤8.00	PASS
		2437	-28.33	≤8.00	PASS
		2452	-27.86	≤8.00	PASS

Test Graphs

11B_Ant1_2412



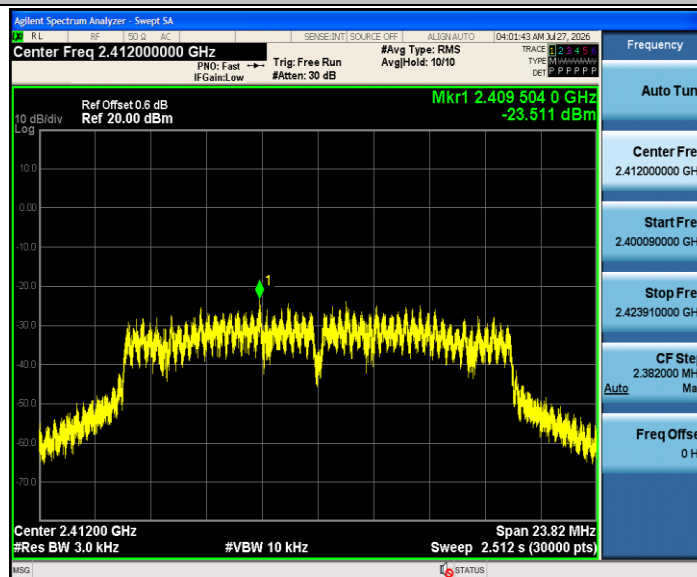
11B_Ant1_2437



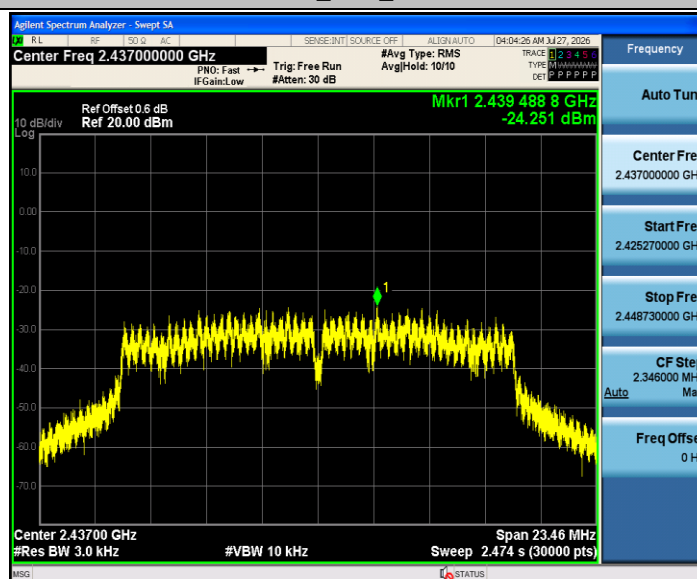
11B_Ant1_2462



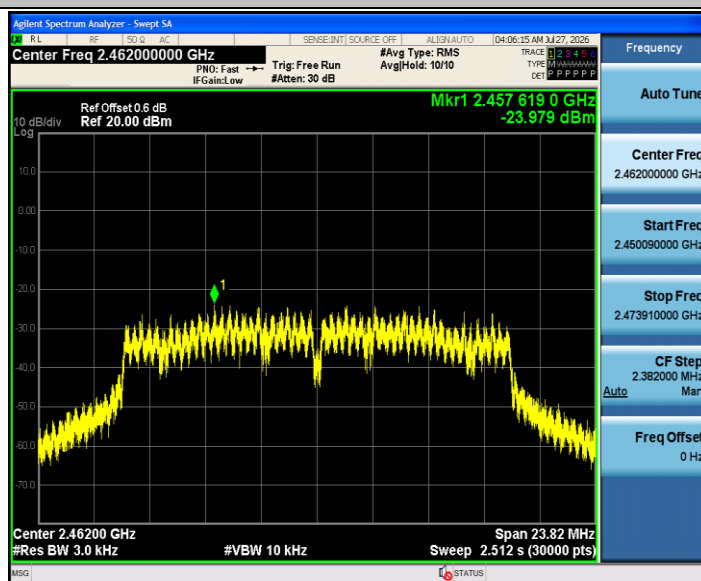
11G_Ant1_2412



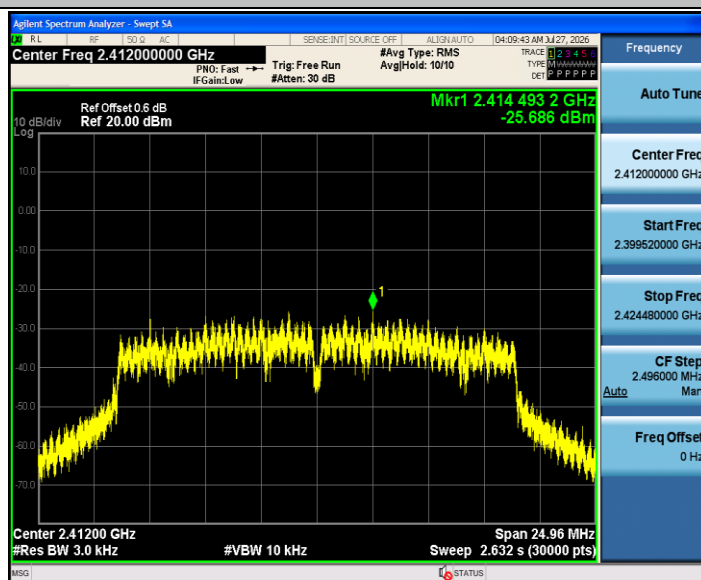
11G_Ant1_2437



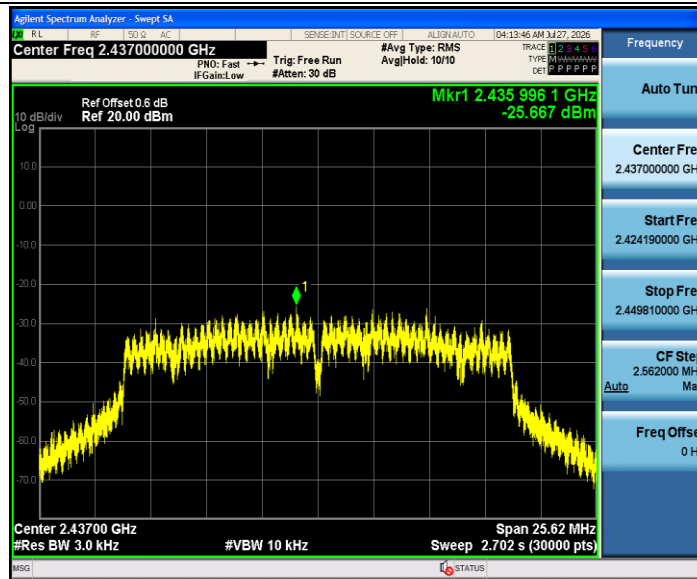
11G_Ant1_2462



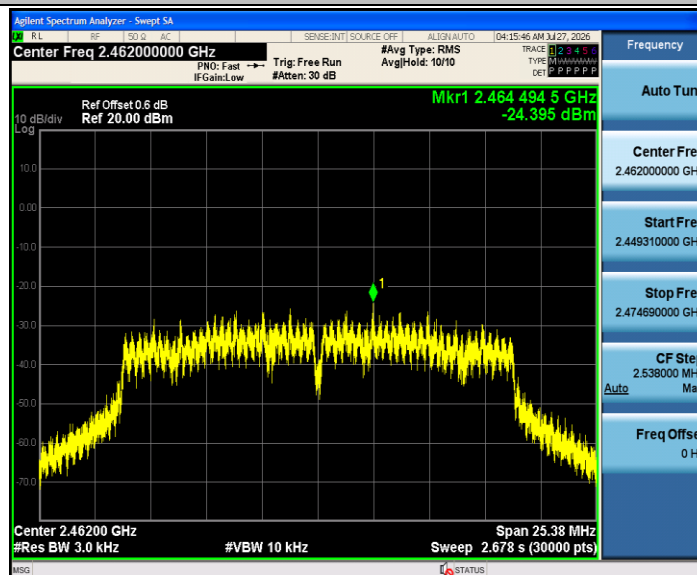
11N20SISO_Ant1_2412



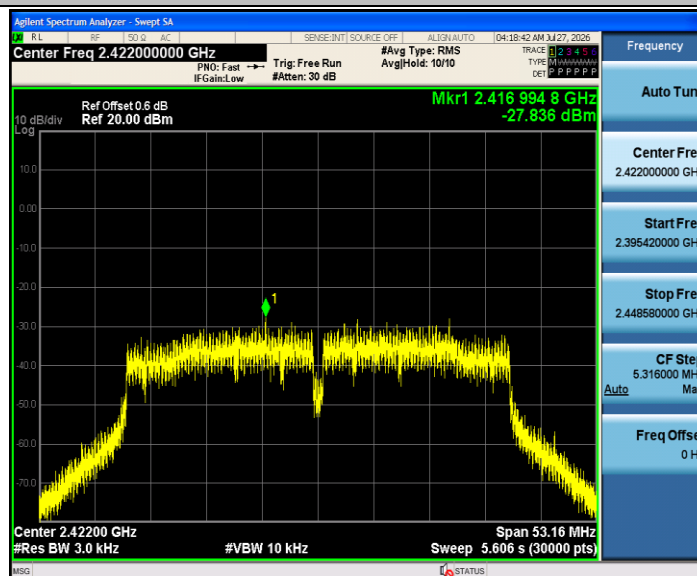
11N20SISO_Ant1_2437



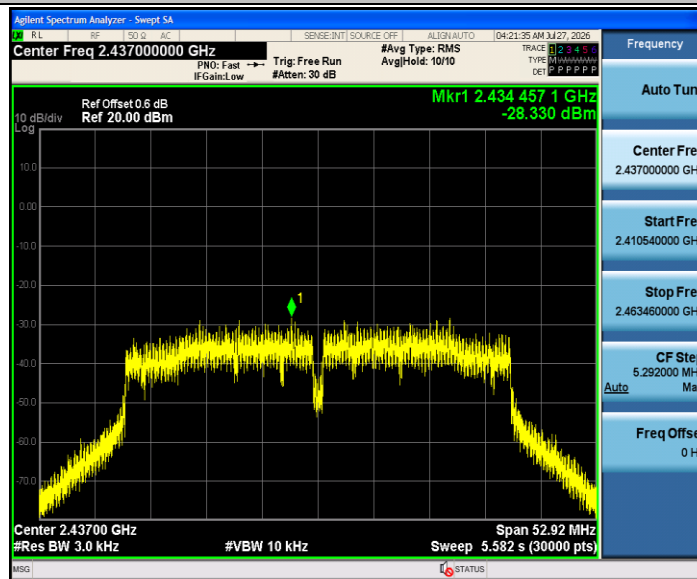
11N20SISO_Ant1_2462



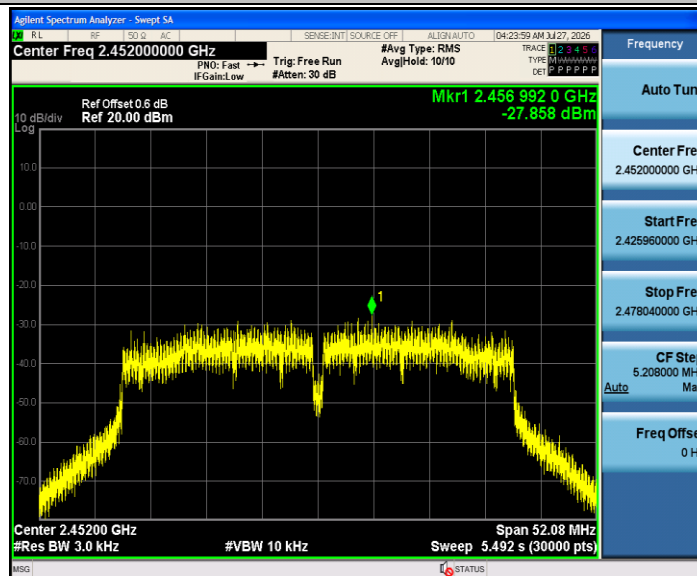
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



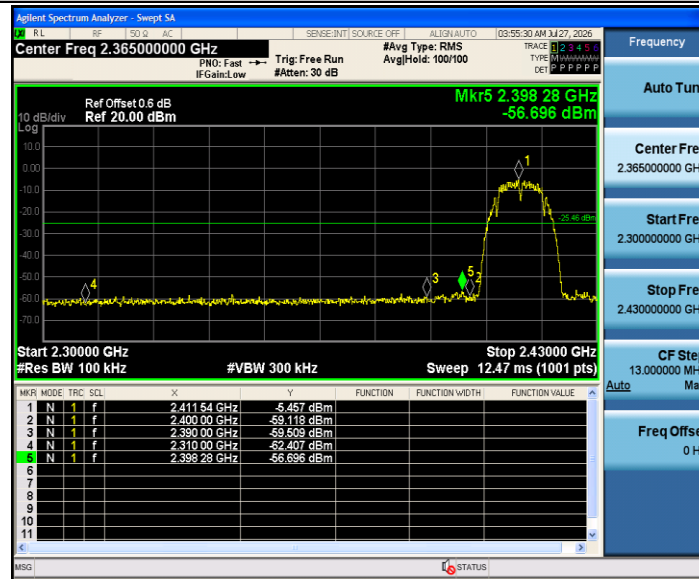
Appendix E: Band edge measurements

Test Result

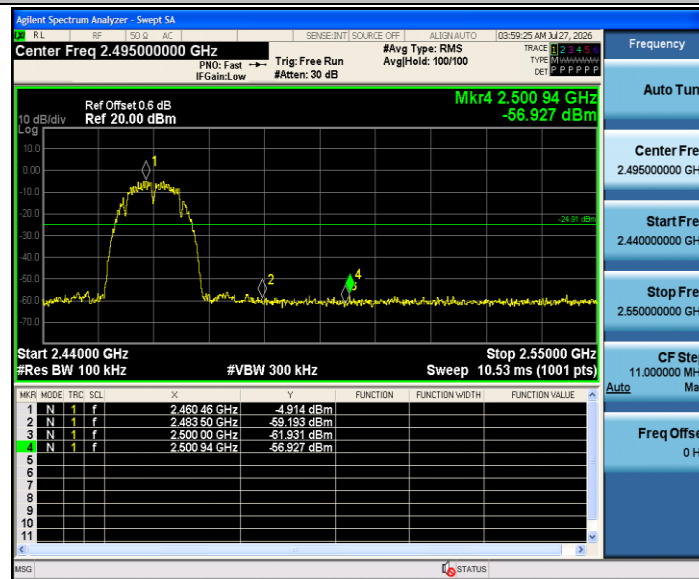
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.46	-56.7	≤-25.46	PASS
		High	2462	-4.91	-56.93	≤-24.91	PASS
11G	Ant1	Low	2412	-8.74	-40.79	≤-28.74	PASS
		High	2462	-8.39	-58.35	≤-28.39	PASS
11N20SISO	Ant1	Low	2412	-10.69	-42.93	≤-30.69	PASS
		High	2462	-10.75	-57.5	≤-30.75	PASS
11N40SISO	Ant1	Low	2422	-13.59	-42.24	≤-33.59	PASS
		High	2452	-13.61	-57.69	≤-33.61	PASS

Test Graphs

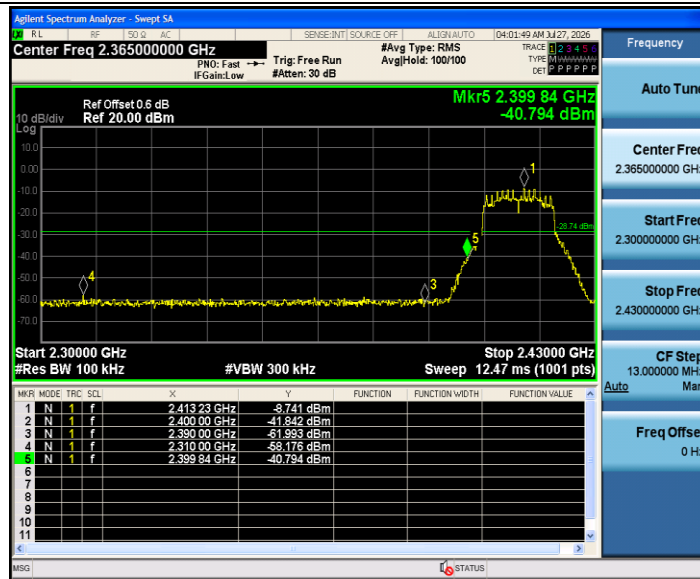
11B_Ant1_Low_2412



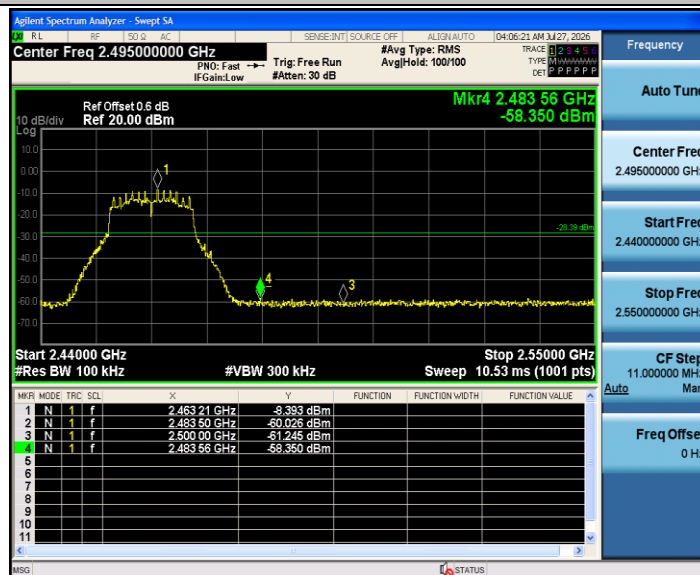
11B_Ant1_High_2462



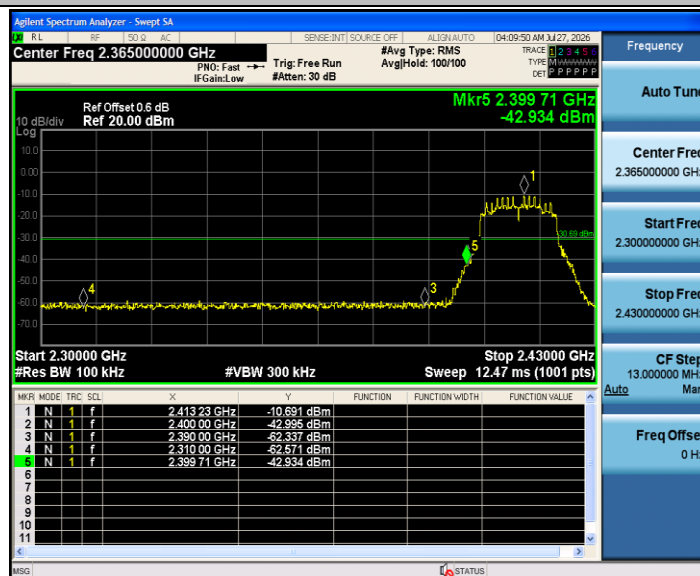
11G_Ant1_Low_2412



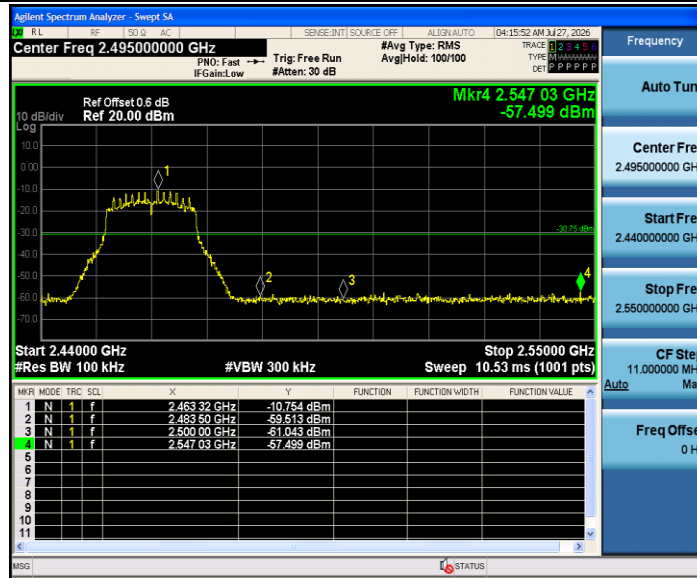
11G_Ant1_High_2462



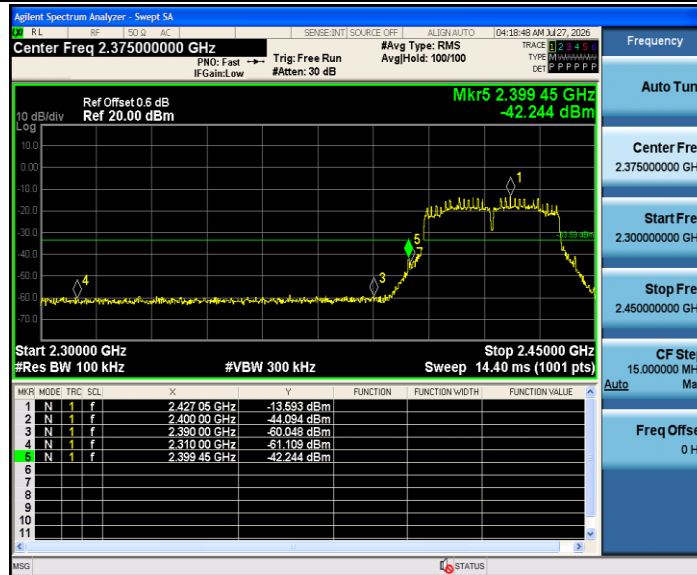
11N20SISO_Ant1_Low_2412



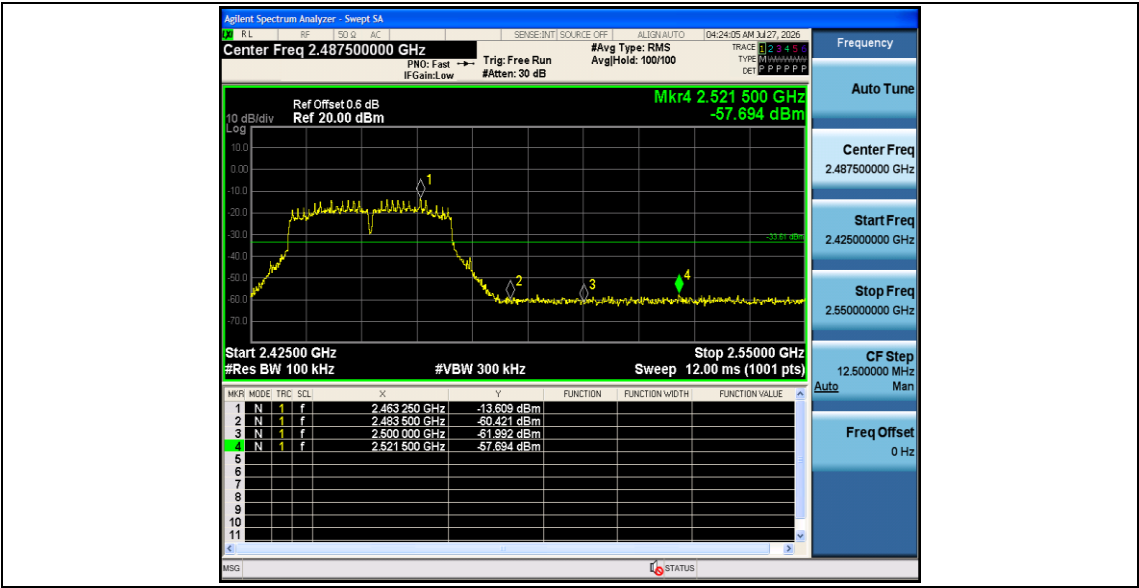
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



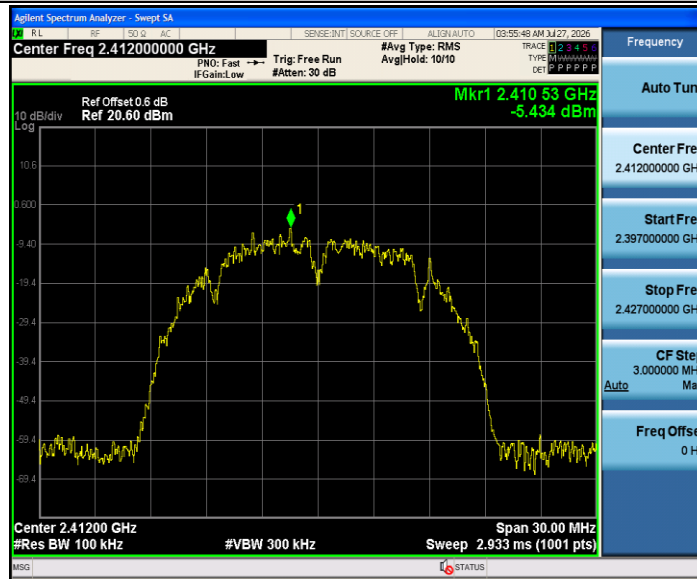
Appendix F: Conducted Spurious Emission

Test Result

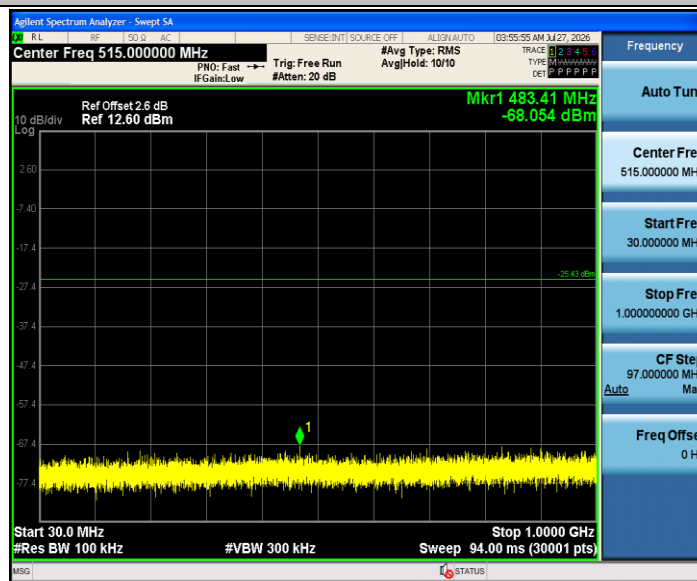
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-68.05	≤-25.43	PASS
			1000~26500	-5.43	-46.72	≤-25.43	PASS
		2437	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-68.24	≤-25.28	PASS
			1000~26500	-5.28	-46.48	≤-25.28	PASS
		2462	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-68.6	≤-24.85	PASS
			1000~26500	-4.85	-45.76	≤-24.85	PASS
11G	Ant1	2412	Reference	-9.76	-9.76	---	PASS
			30~1000	-9.76	-69.23	≤-29.76	PASS
			1000~26500	-9.76	-46.9	≤-29.76	PASS
		2437	Reference	-9.13	-9.13	---	PASS
			30~1000	-9.13	-68.66	≤-29.13	PASS
			1000~26500	-9.13	-46.12	≤-29.13	PASS
		2462	Reference	-8.97	-8.97	---	PASS
			30~1000	-8.97	-68.89	≤-28.97	PASS
			1000~26500	-8.97	-46.1	≤-28.97	PASS
11N20SISO	Ant1	2412	Reference	-11.33	-11.33	---	PASS
			30~1000	-11.33	-68.36	≤-31.33	PASS
			1000~26500	-11.33	-46.45	≤-31.33	PASS
		2437	Reference	-11.86	-11.86	---	PASS
			30~1000	-11.86	-68.75	≤-31.86	PASS
			1000~26500	-11.86	-44.98	≤-31.86	PASS
		2462	Reference	-11.43	-11.43	---	PASS
			30~1000	-11.43	-68.72	≤-31.43	PASS
			1000~26500	-11.43	-46.14	≤-31.43	PASS
11N40SISO	Ant1	2422	Reference	-14.02	-14.02	---	PASS
			30~1000	-14.02	-68.55	≤-34.02	PASS
			1000~26500	-14.02	-46.49	≤-34.02	PASS
		2437	Reference	-14.12	-14.12	---	PASS
			30~1000	-14.12	-68.59	≤-34.12	PASS
			1000~26500	-14.12	-46.39	≤-34.12	PASS
		2452	Reference	-13.96	-13.96	---	PASS
			30~1000	-13.96	-68.69	≤-33.96	PASS
			1000~26500	-13.96	-46.78	≤-33.96	PASS

Test Graphs

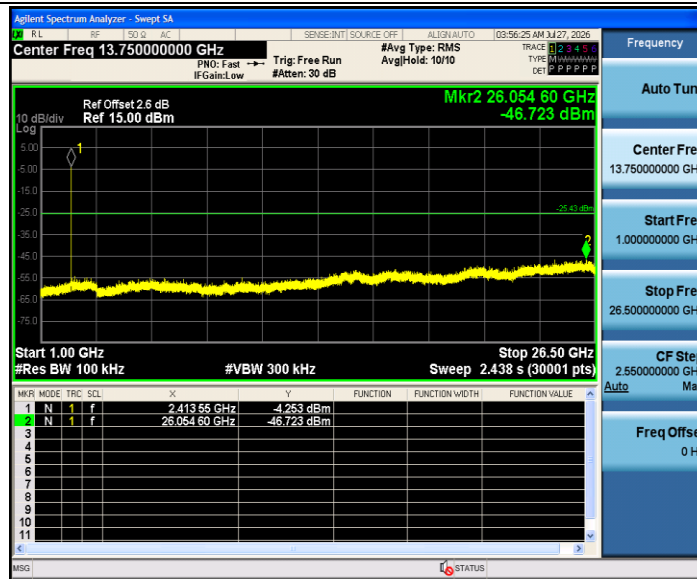
11B_Ant1_2412_0~Reference



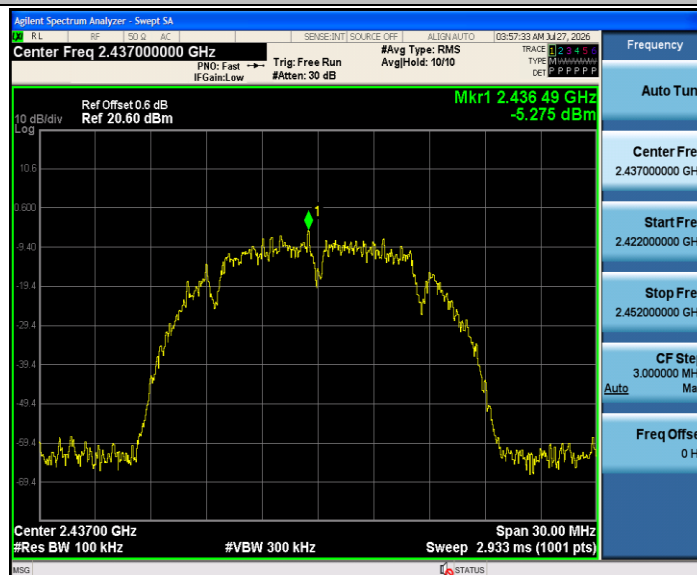
11B_Ant1_2412_30~1000



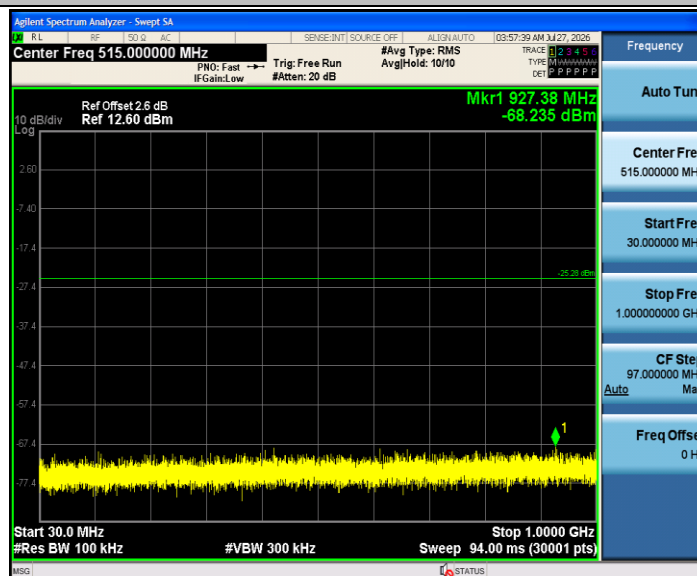
11B_Ant1_2412_1000~26500



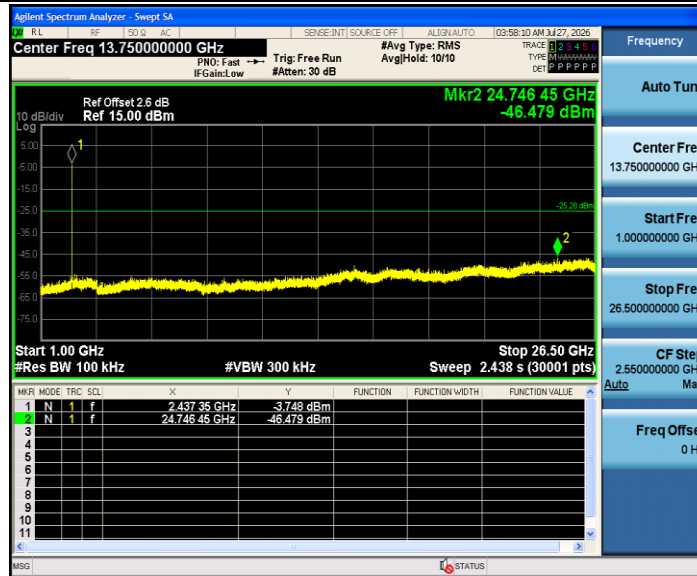
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



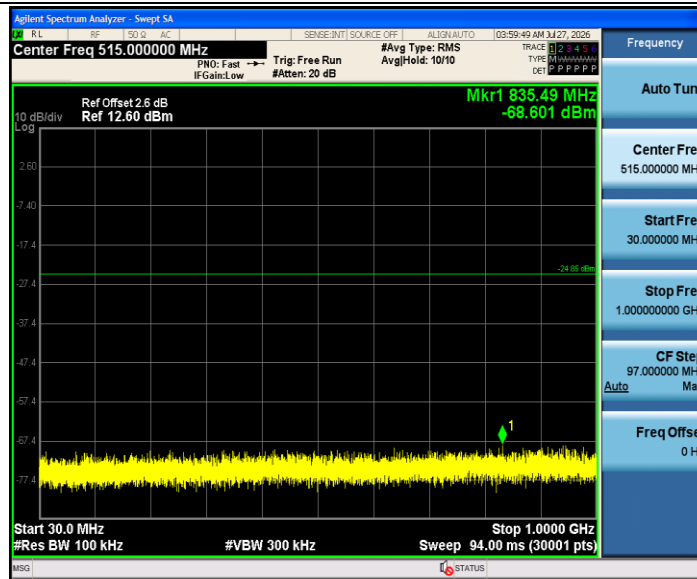
11B_Ant1_2437_1000~26500



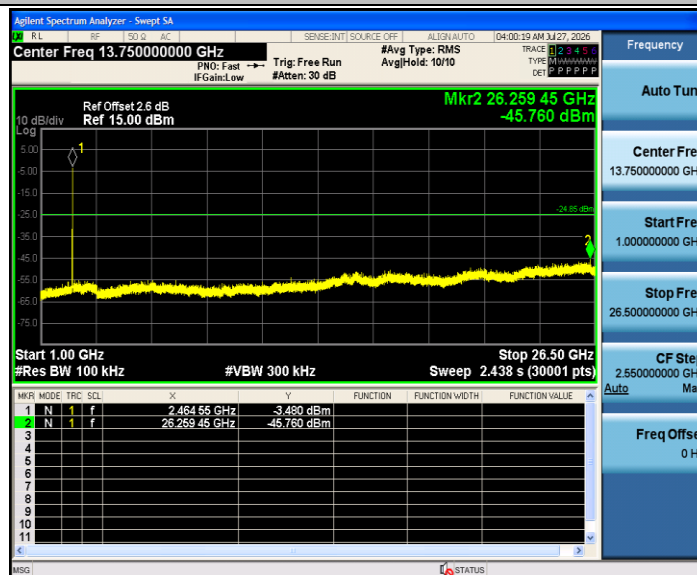
11B_Ant1_2462_0~Reference



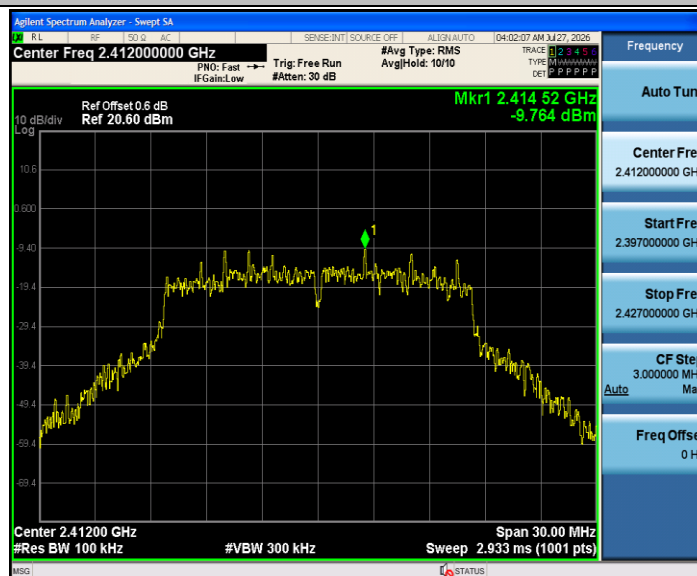
11B_Ant1_2462_30~1000



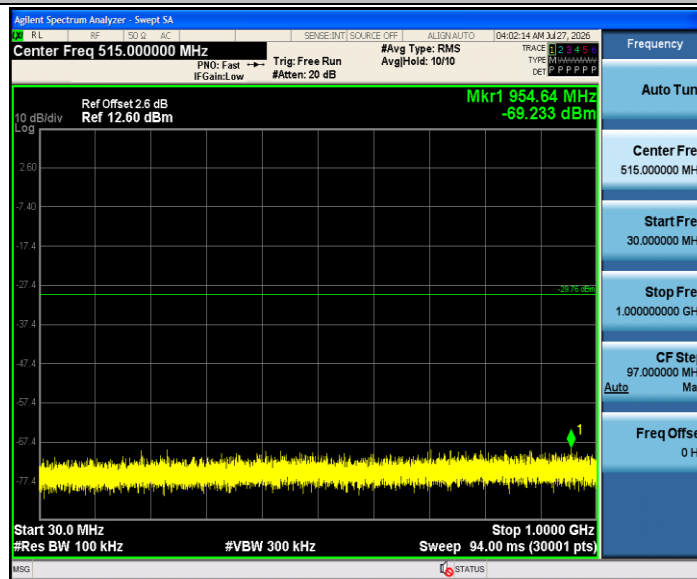
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



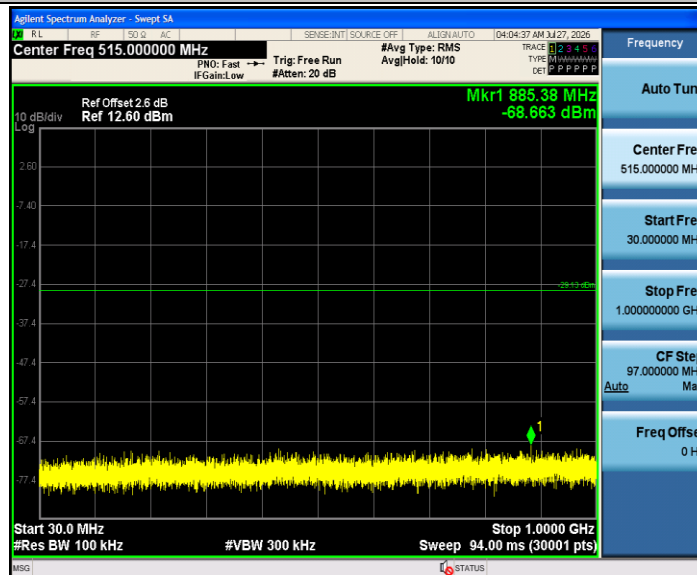
11G_Ant1_2412_1000~26500



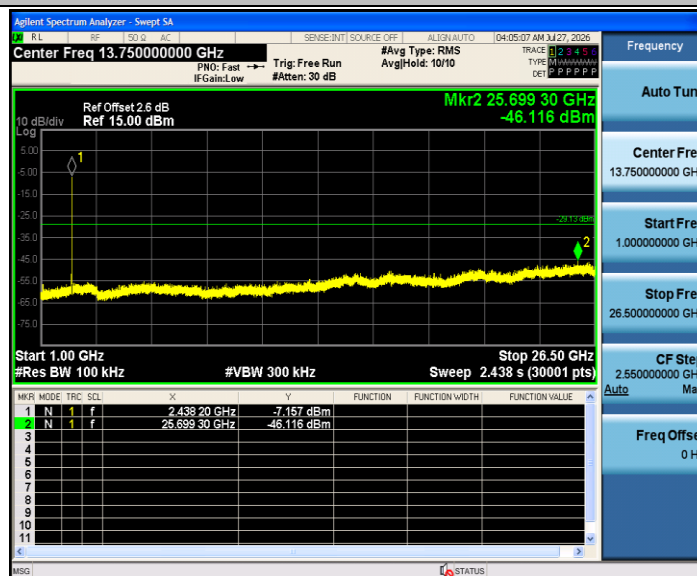
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



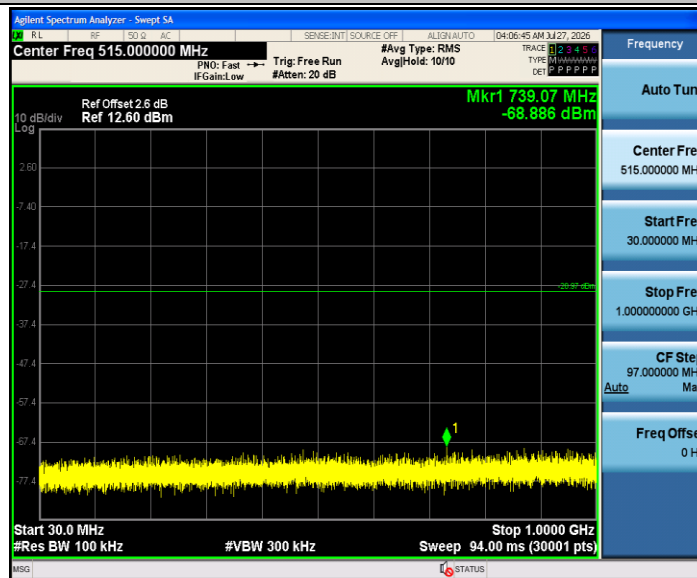
11G_Ant1_2437_1000~26500



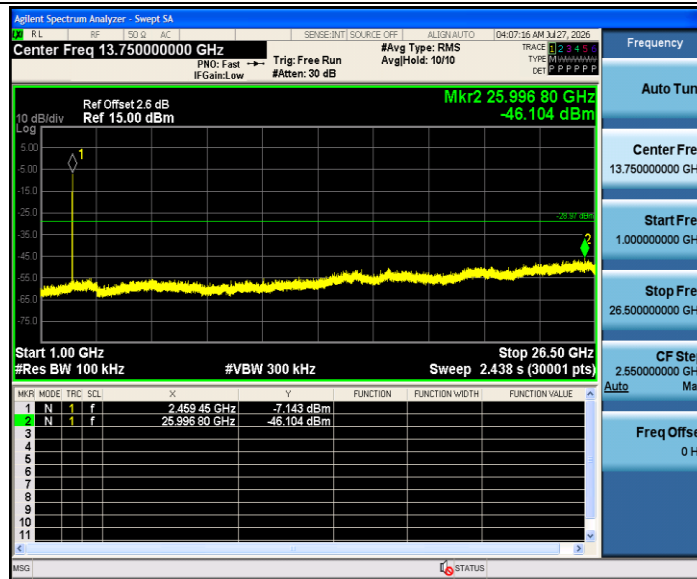
11G_Ant1_2462_0~Reference



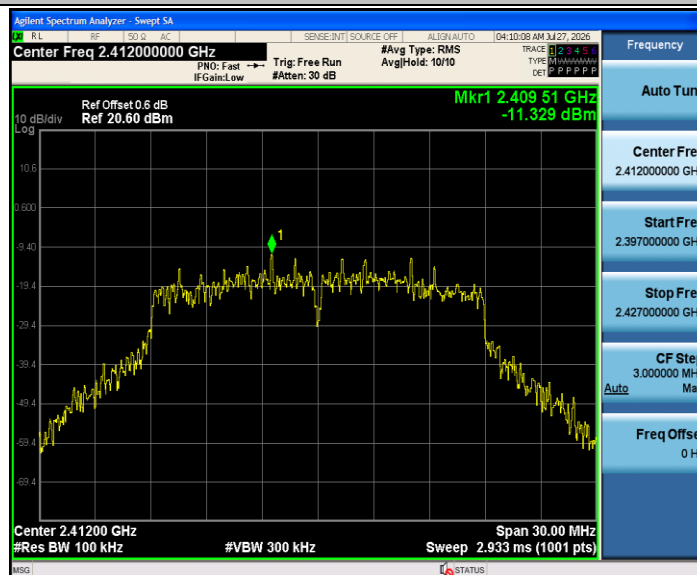
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

