

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2ATDT-007

Company : Shenzhen Hengxin Weiye Digital Co., LTD.

EUT : Toy walkie-talkie

Model Number : 007

Report No. : CTA25112701601

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	8.200	2408.160	2416.360	0.5	PASS
		2437	8.840	2432.520	2441.360	0.5	PASS
		2462	8.760	2457.560	2466.320	0.5	PASS
11G	Ant1	2412	16.360	2403.880	2420.240	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.400	2420.640	0.5	PASS
		2437	17.320	2428.400	2445.720	0.5	PASS
		2462	17.080	2453.400	2470.480	0.5	PASS

Test Graphs

11B_Ant1_2412



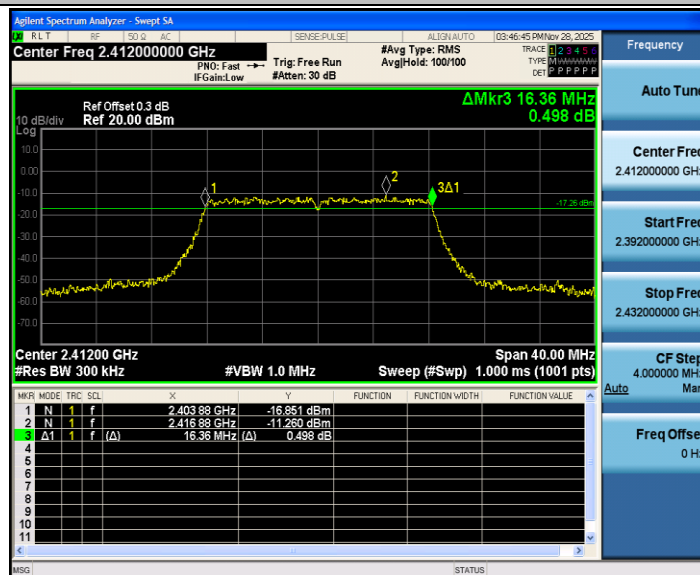
11B_Ant1_2437



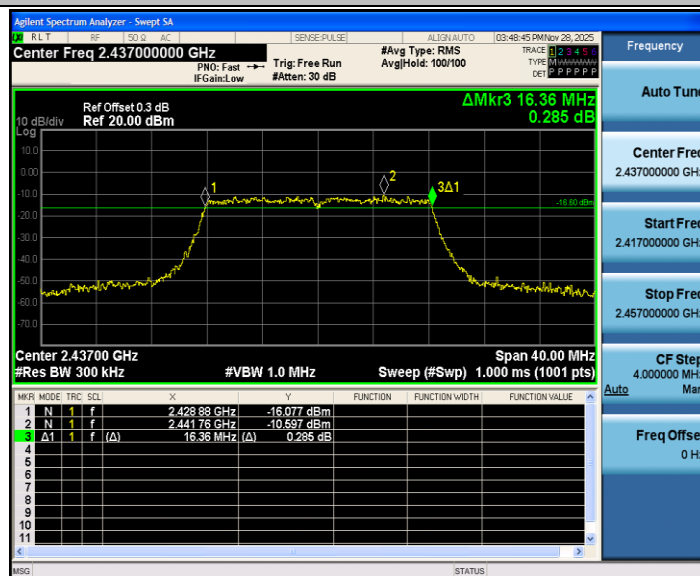
11B_Ant1_2462



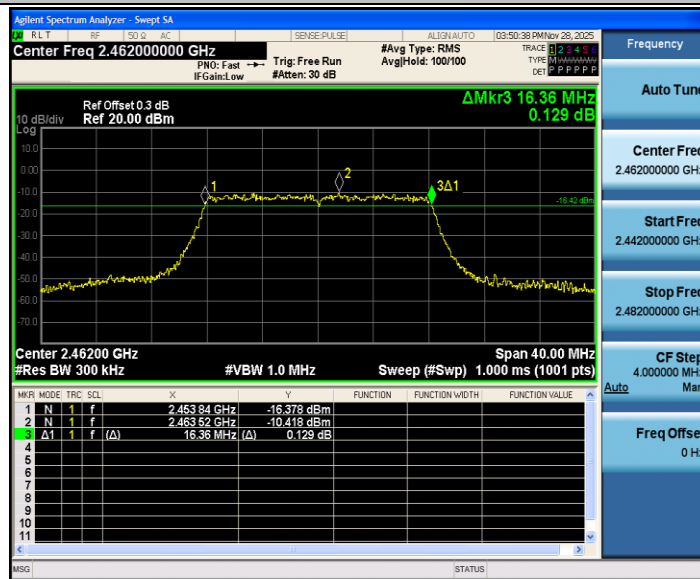
11G_Ant1_2412



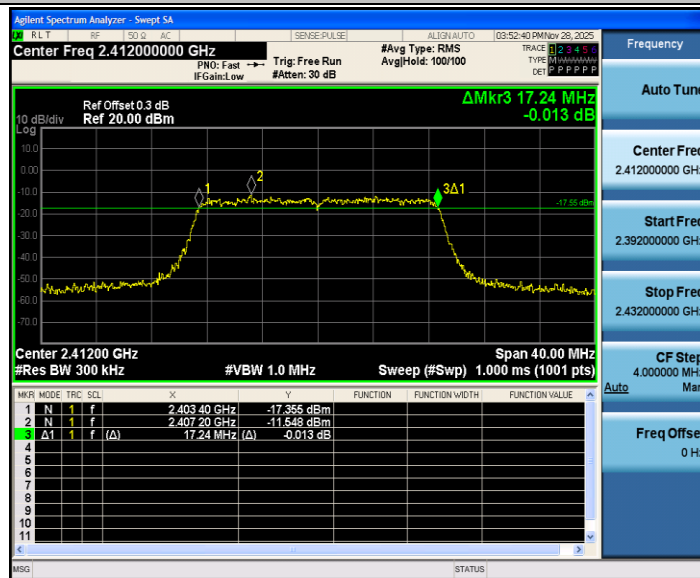
11G_Ant1_2437



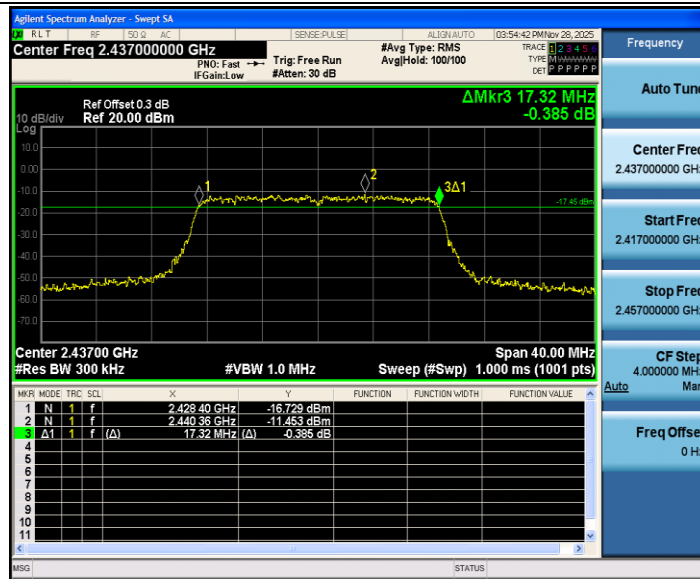
11G_Ant1_2462



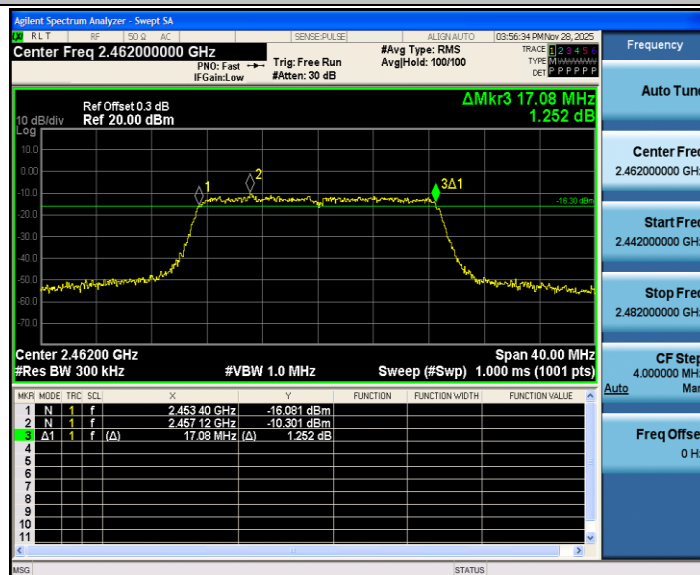
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



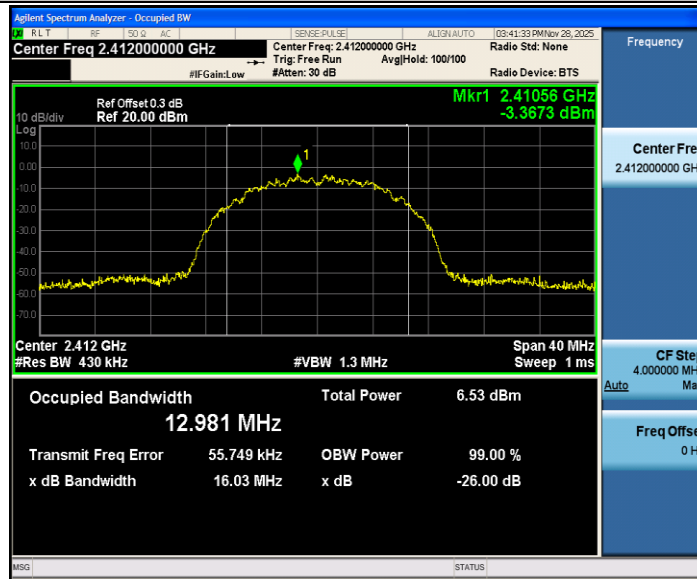
Appendix B: Occupied Channel Bandwidth

Test Result

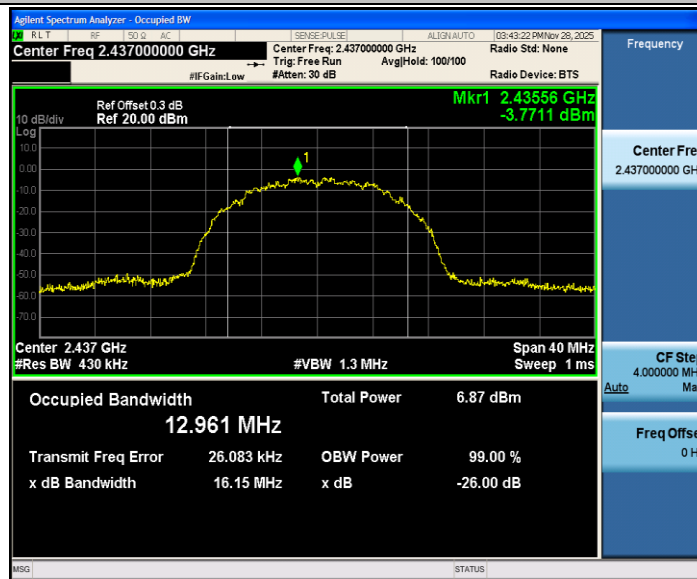
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.981	2405.5653	2418.5463	---	---
		2437	12.961	2430.5456	2443.5066	---	---
		2462	12.979	2455.5041	2468.4831	---	---
11G	Ant1	2412	16.585	2403.7503	2420.3353	---	---
		2437	16.604	2428.7342	2445.3382	---	---
		2462	16.569	2453.7538	2470.3228	---	---
11N20SISO	Ant1	2412	17.438	2403.3339	2420.7719	---	---
		2437	17.455	2428.3252	2445.7802	---	---
		2462	17.492	2453.2867	2470.7787	---	---

Test Graphs

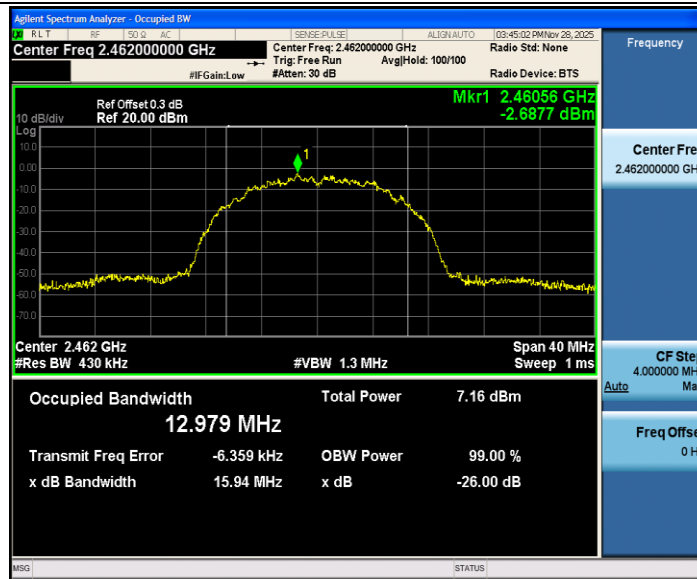
11B_Ant1_2412



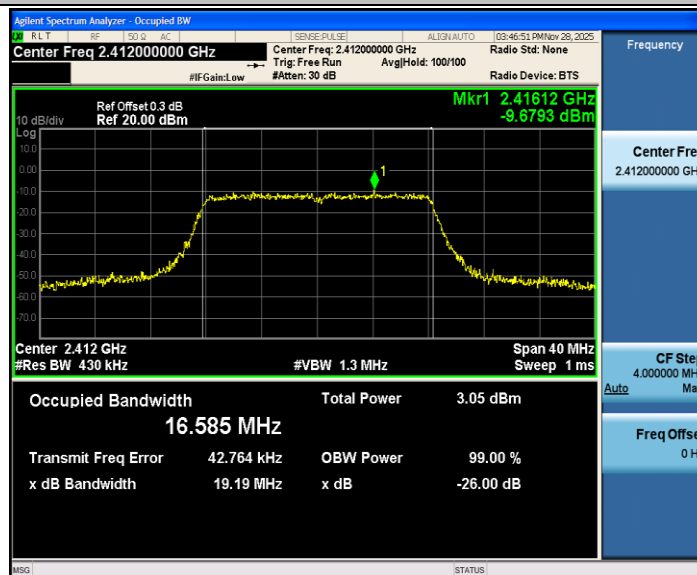
11B_Ant1_2437



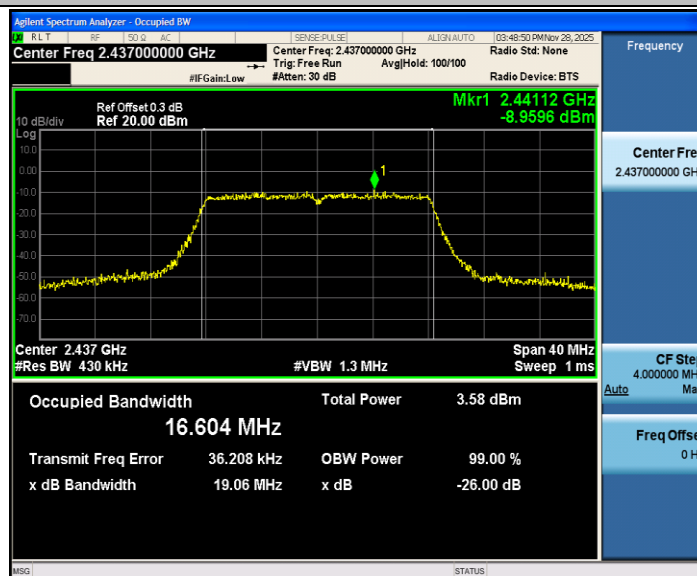
11B_Ant1_2462



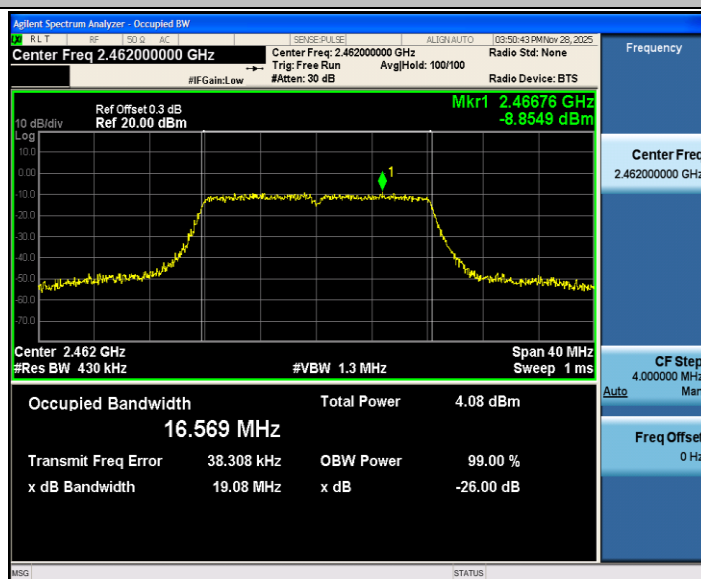
11G_Ant1_2412



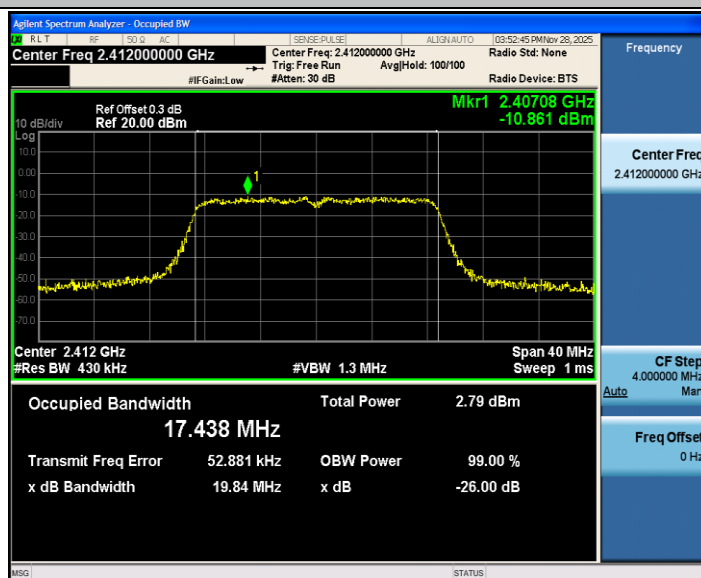
11G_Ant1_2437



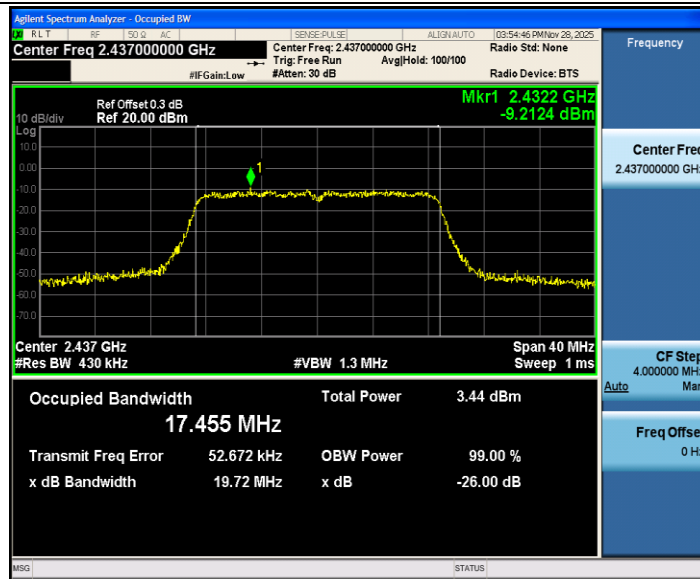
11G_Ant1_2462



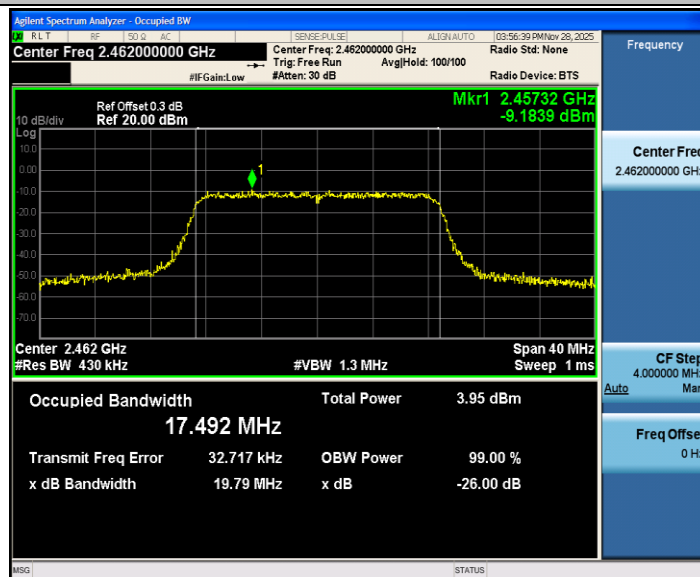
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	5.86	≤30.00	PASS
		2437	6.41	≤30.00	PASS
		2462	6.61	≤30.00	PASS
11G	Ant1	2412	3.86	≤30.00	PASS
		2437	4.46	≤30.00	PASS
		2462	4.90	≤30.00	PASS
11N20SISO	Ant1	2412	4.12	≤30.00	PASS
		2437	4.62	≤30.00	PASS
		2462	5.16	≤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	-23.26	≤8.00	PASS
		2437	-22.50	≤8.00	PASS
		2462	-22.27	≤8.00	PASS
11G	Ant1	2412	-30.50	≤8.00	PASS
		2437	-29.90	≤8.00	PASS
		2462	-29.54	≤8.00	PASS
11N20SISO	Ant1	2412	-30.69	≤8.00	PASS
		2437	-29.73	≤8.00	PASS
		2462	-29.40	≤8.00	PASS

Test Graphs

11B_Ant1_2412



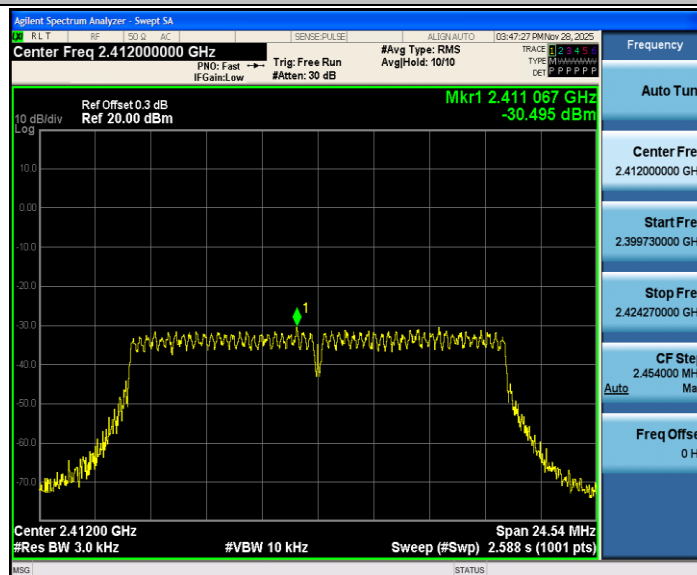
11B_Ant1_2437



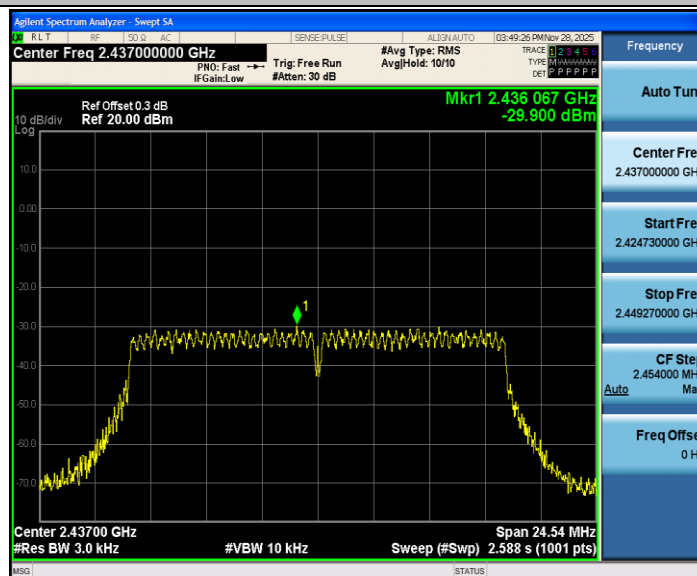
11B_Ant1_2462



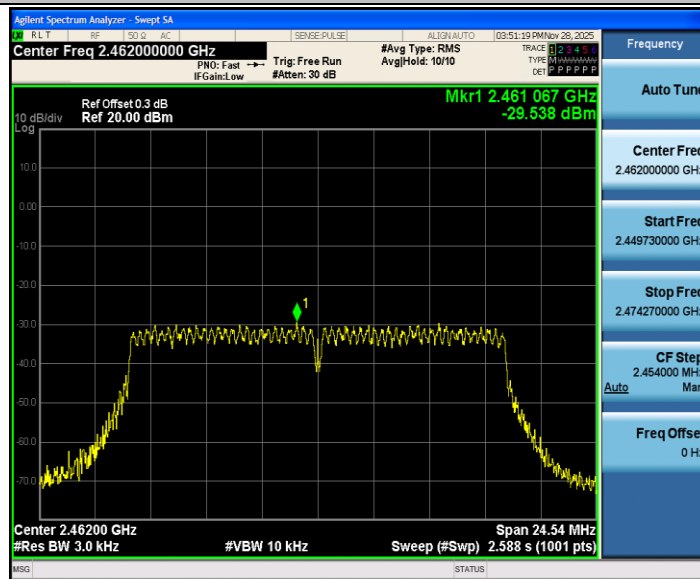
11G_Ant1_2412



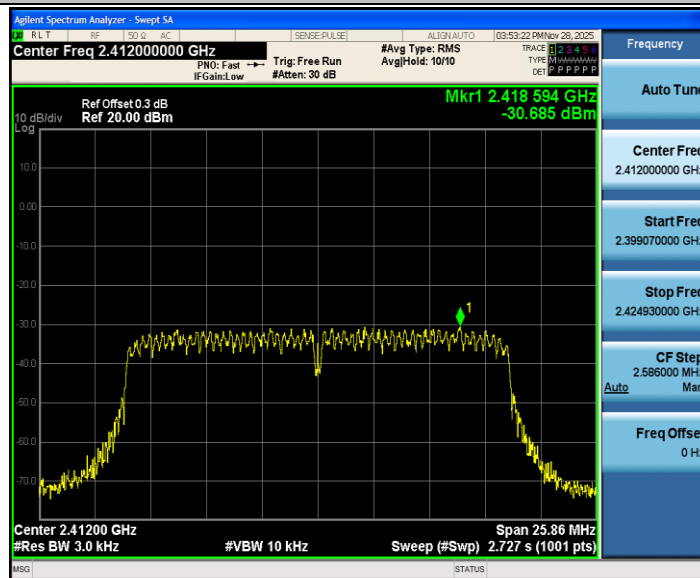
11G_Ant1_2437



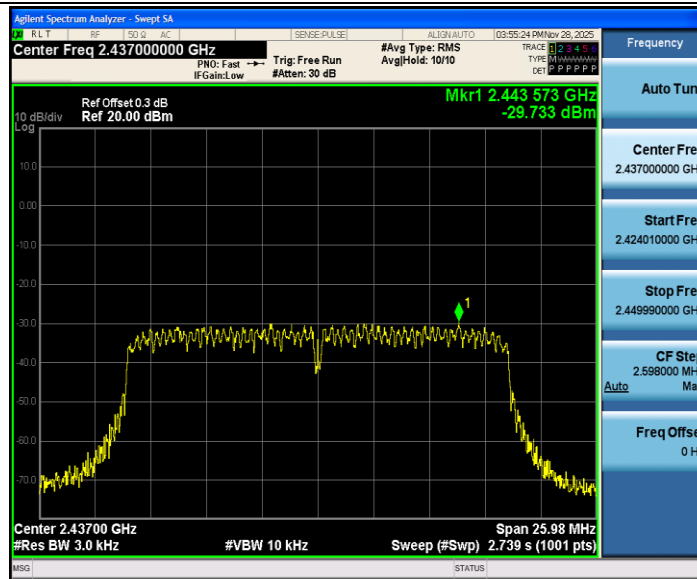
11G_Ant1_2462



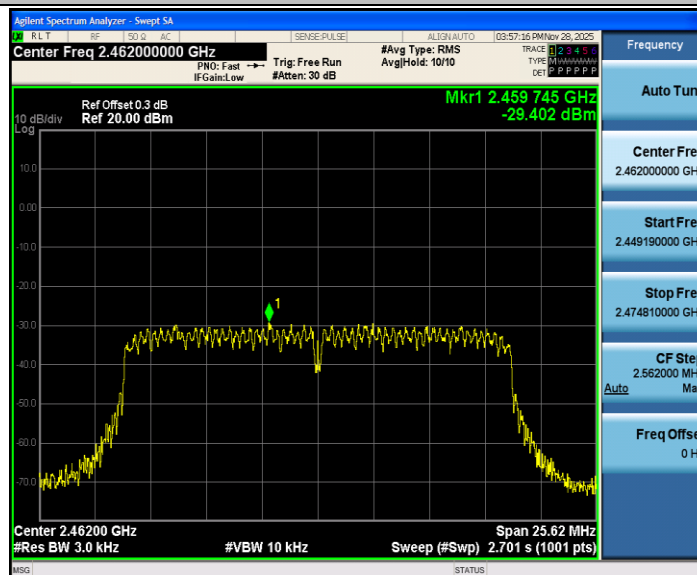
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



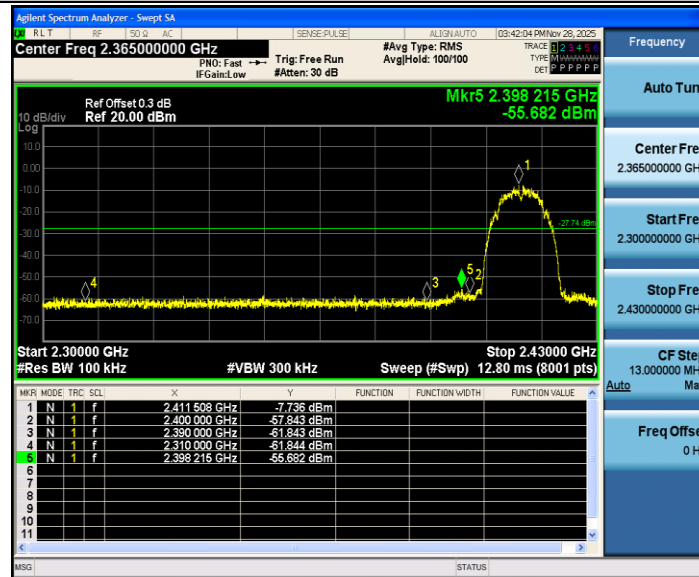
Appendix E: Band edge measurements

Test Result

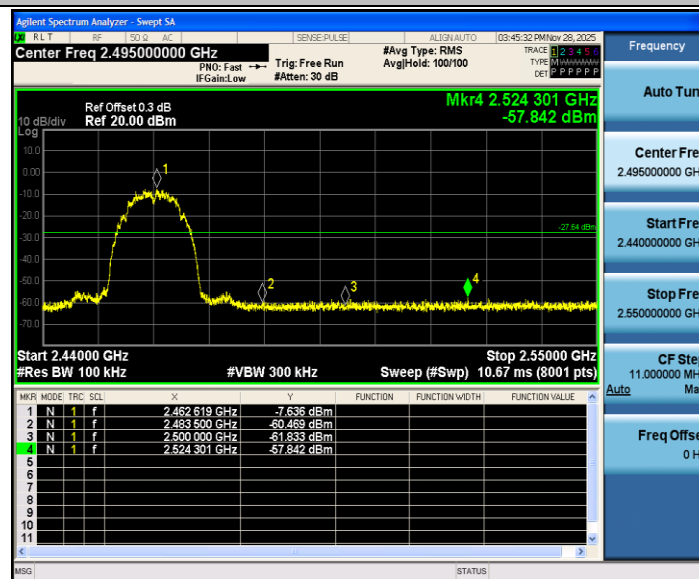
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-7.74	-55.68	≤-27.74	PASS
		High	2462	-7.64	-57.84	≤-27.64	PASS
11G	Ant1	Low	2412	-16.26	-54.37	≤-36.26	PASS
		High	2462	-15.72	-58.24	≤-35.72	PASS
11N20SISO	Ant1	Low	2412	-16.57	-54.99	≤-36.57	PASS
		High	2462	-15.34	-58.23	≤-35.34	PASS

Test Graphs

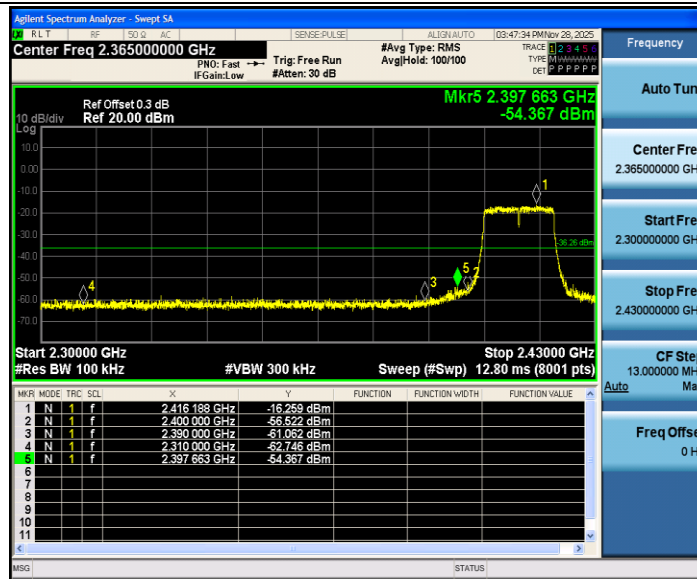
11B_Ant1_Low_2412



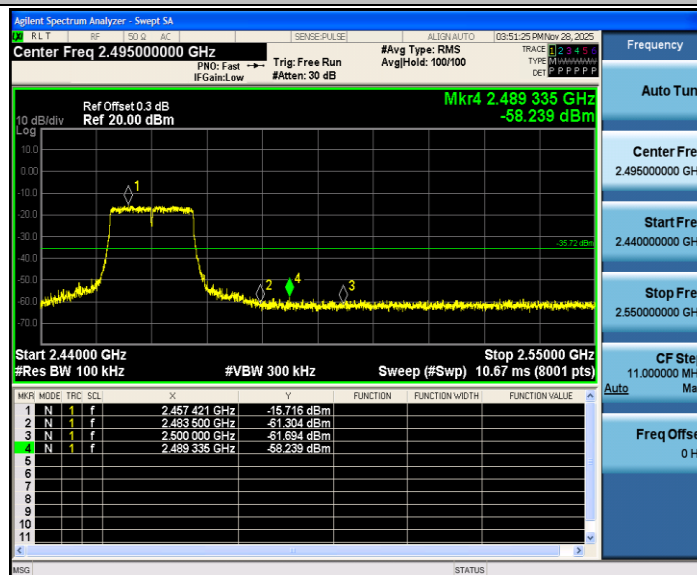
11B_Ant1_High_2462



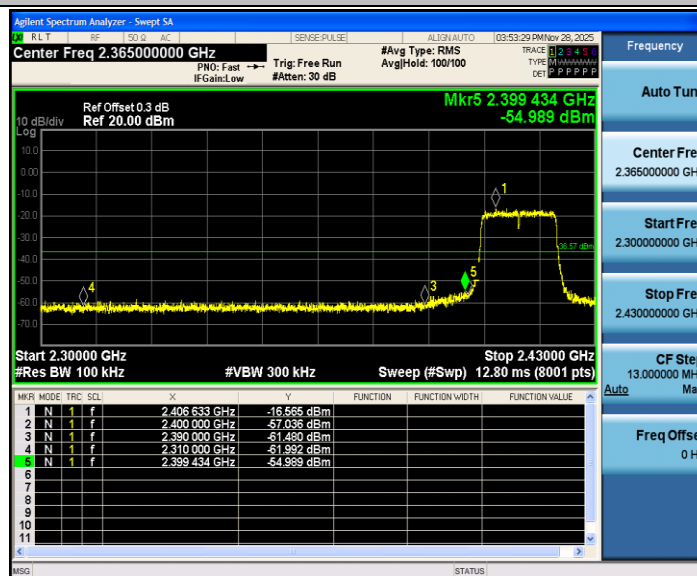
11G_Ant1_Low_2412



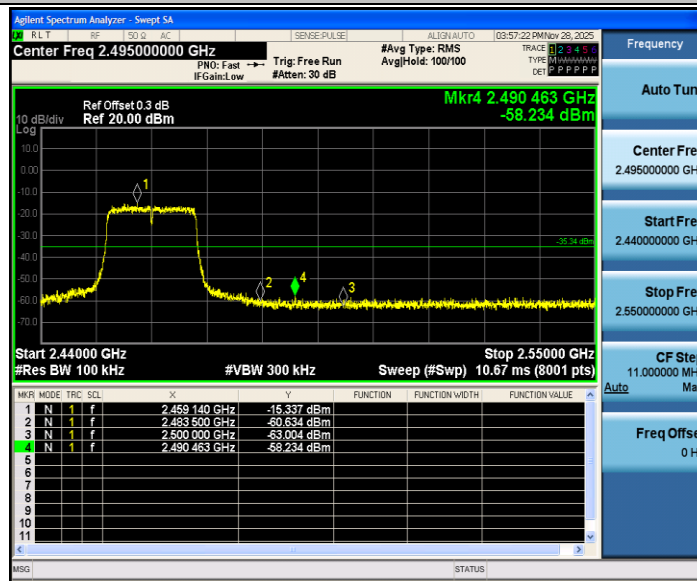
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



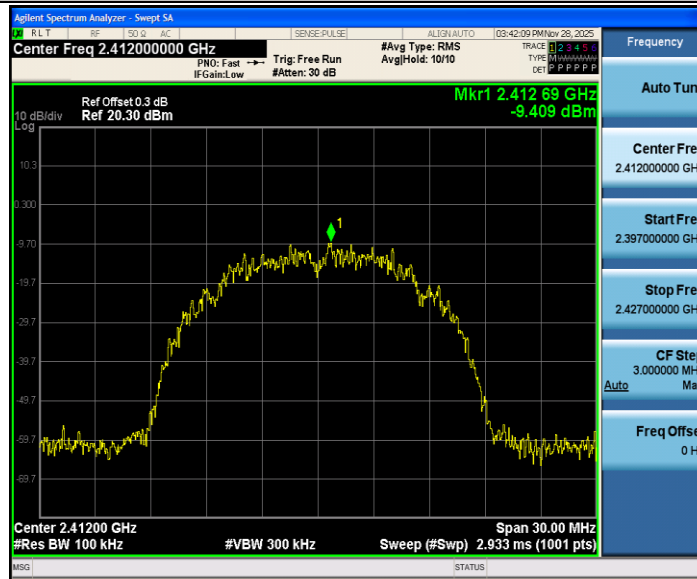
Appendix F: Conducted Spurious Emission

Test Result

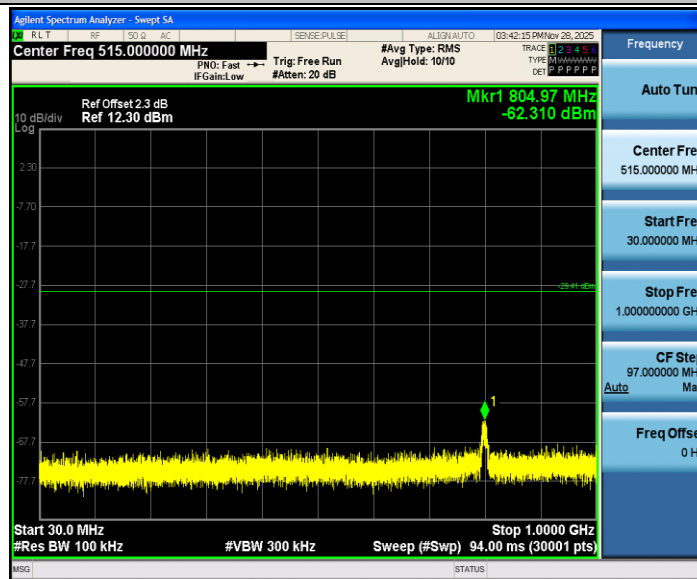
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-9.41	-9.41	---	PASS
			30~1000	-9.41	-62.31	≤-29.41	PASS
			1000~26500	-9.41	-44.5	≤-29.41	PASS
		2437	Reference	-7.64	-7.64	---	PASS
			30~1000	-7.64	-60.86	≤-27.64	PASS
			1000~26500	-7.64	-44.99	≤-27.64	PASS
		2462	Reference	-7.70	-7.70	---	PASS
			30~1000	-7.70	-59.88	≤-27.7	PASS
			1000~26500	-7.70	-45.73	≤-27.7	PASS
11G	Ant1	2412	Reference	-17.11	-17.11	---	PASS
			30~1000	-17.11	-64.27	≤-37.11	PASS
			1000~26500	-17.11	-44.64	≤-37.11	PASS
		2437	Reference	-16.42	-16.42	---	PASS
			30~1000	-16.42	-64.22	≤-36.42	PASS
			1000~26500	-16.42	-45.05	≤-36.42	PASS
		2462	Reference	-16.02	-16.02	---	PASS
			30~1000	-16.02	-64.5	≤-36.02	PASS
			1000~26500	-16.02	-45.78	≤-36.02	PASS
11N20SISO	Ant1	2412	Reference	-17.78	-17.78	---	PASS
			30~1000	-17.78	-64.68	≤-37.78	PASS
			1000~26500	-17.78	-44.71	≤-37.78	PASS
		2437	Reference	-15.90	-15.90	---	PASS
			30~1000	-15.90	-65.34	≤-35.9	PASS
			1000~26500	-15.90	-45.18	≤-35.9	PASS
		2462	Reference	-16.16	-16.16	---	PASS
			30~1000	-16.16	-64.89	≤-36.16	PASS
			1000~26500	-16.16	-45.59	≤-36.16	PASS

Test Graphs

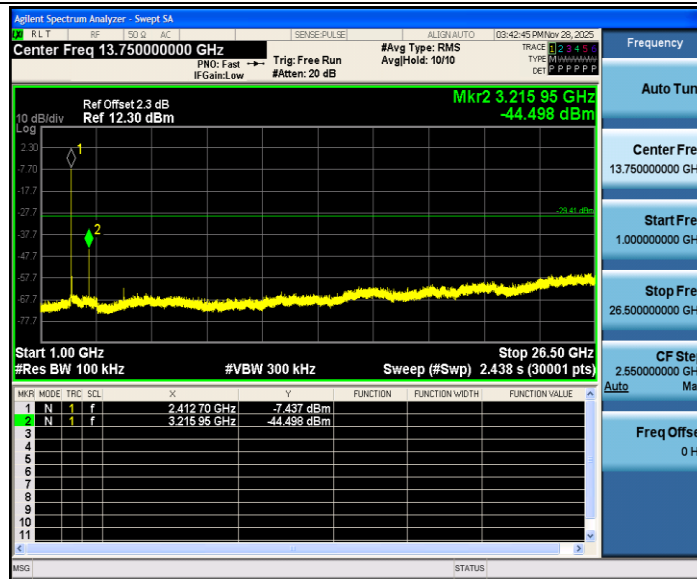
11B_Ant1_2412_0~Reference



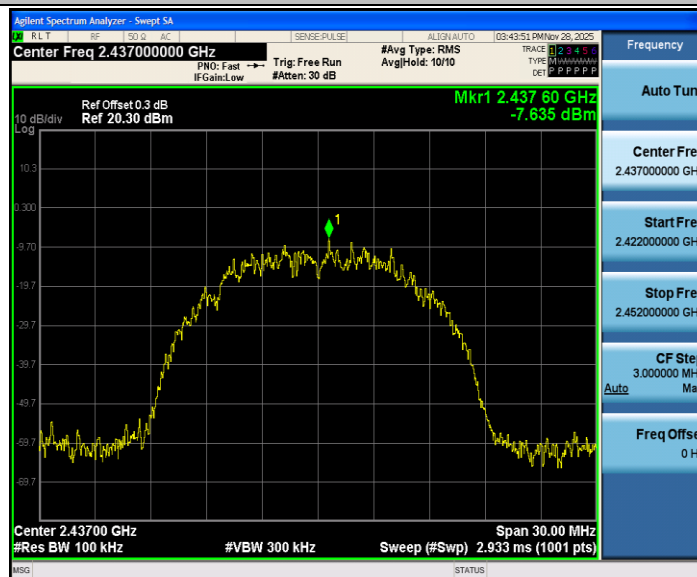
11B_Ant1_2412_30~1000



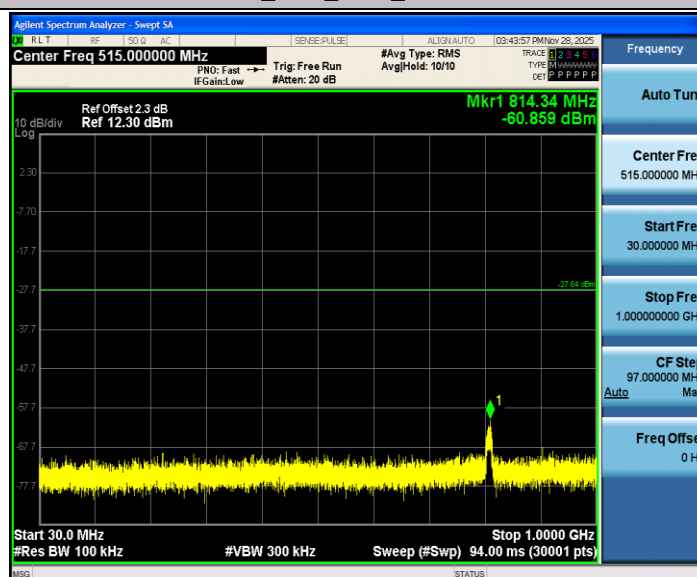
11B_Ant1_2412_1000~26500



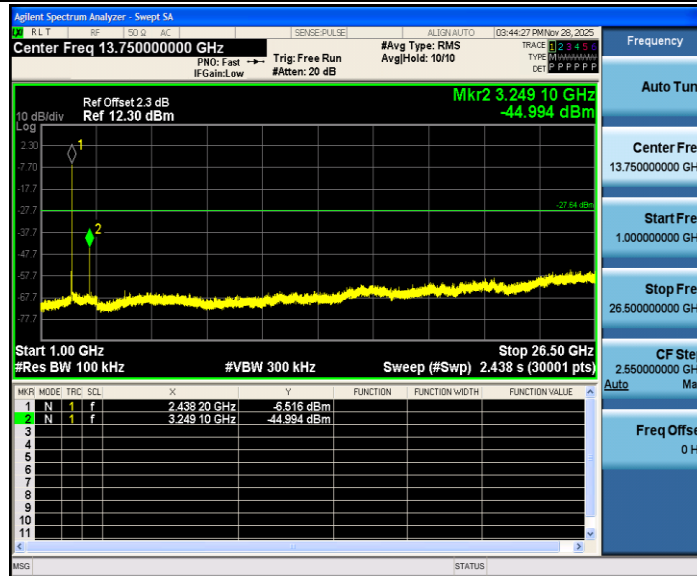
11B_Ant1_2437_0~Reference



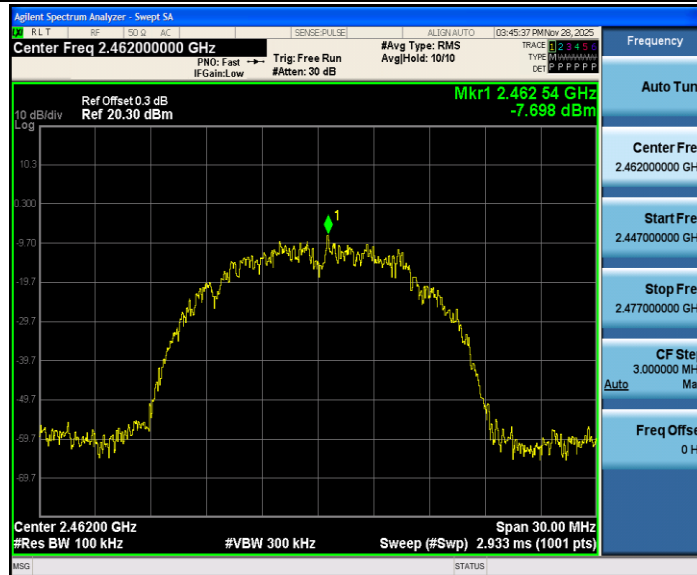
11B_Ant1_2437_30~1000



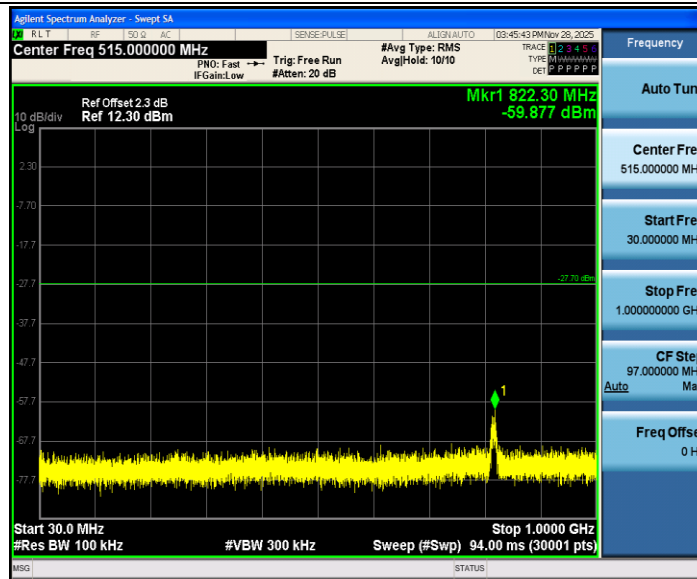
11B_Ant1_2437_1000~26500



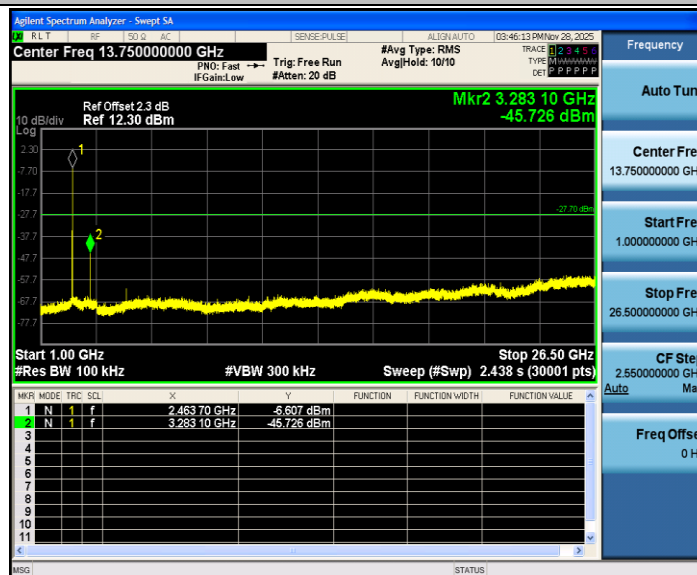
11B_Ant1_2462_0~Reference



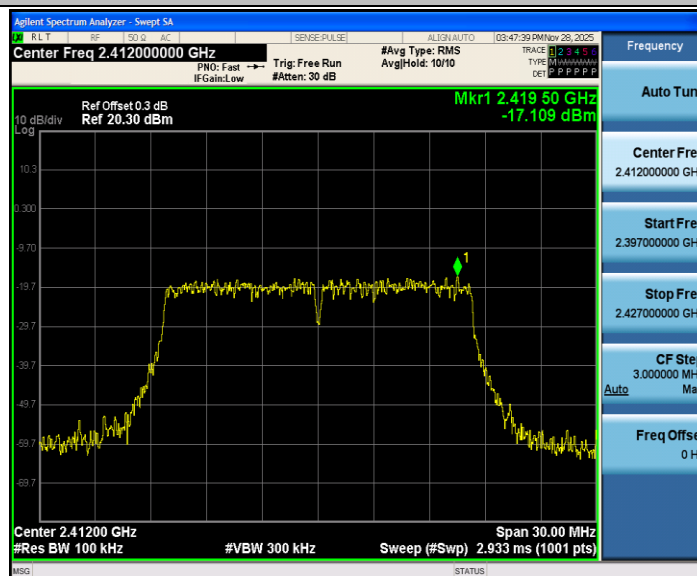
11B_Ant1_2462_30~1000



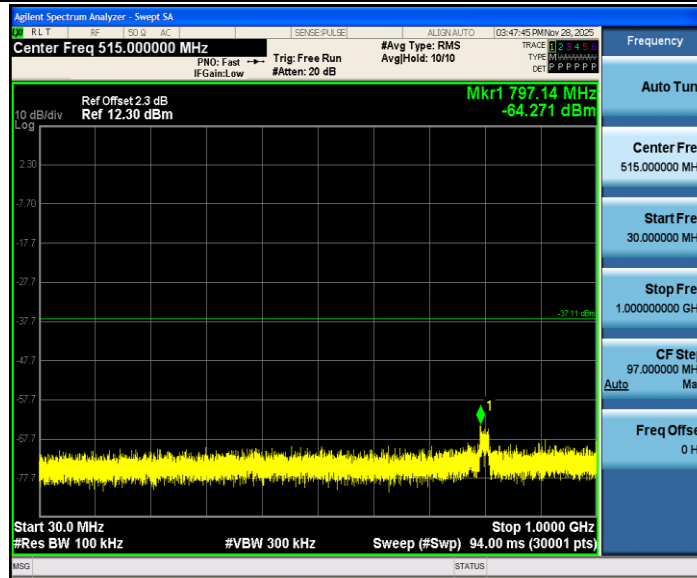
11B_Ant1_2462_1000~26500



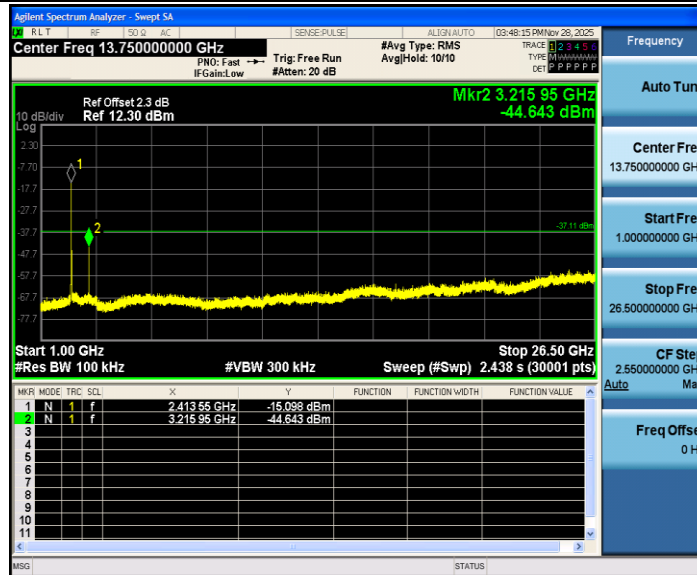
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



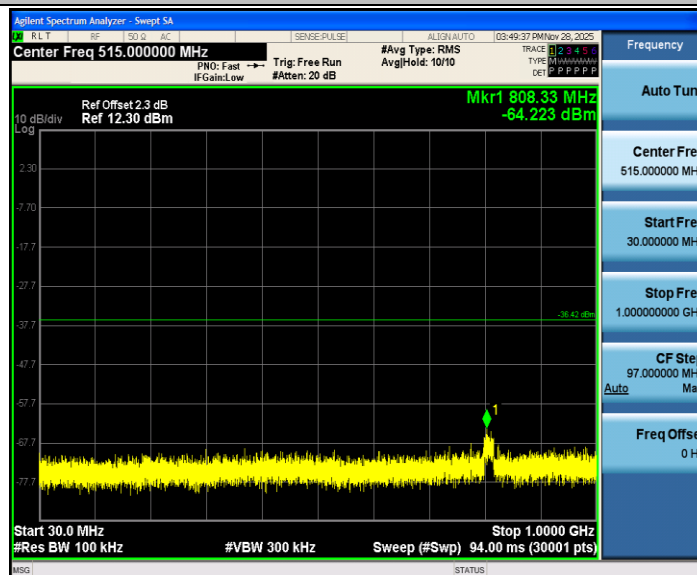
11G_Ant1_2412_1000~26500



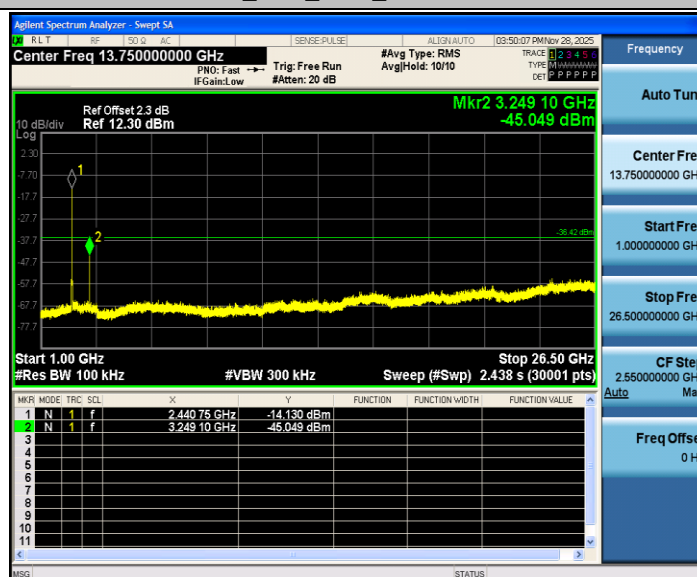
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



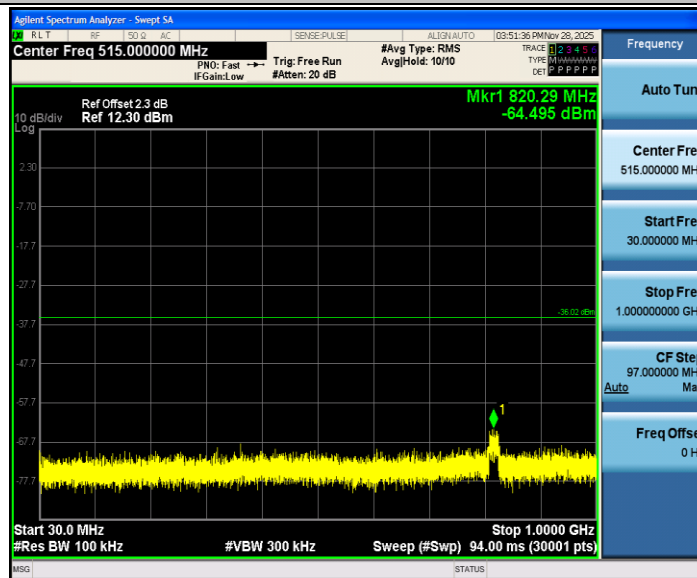
11G_Ant1_2437_1000~26500



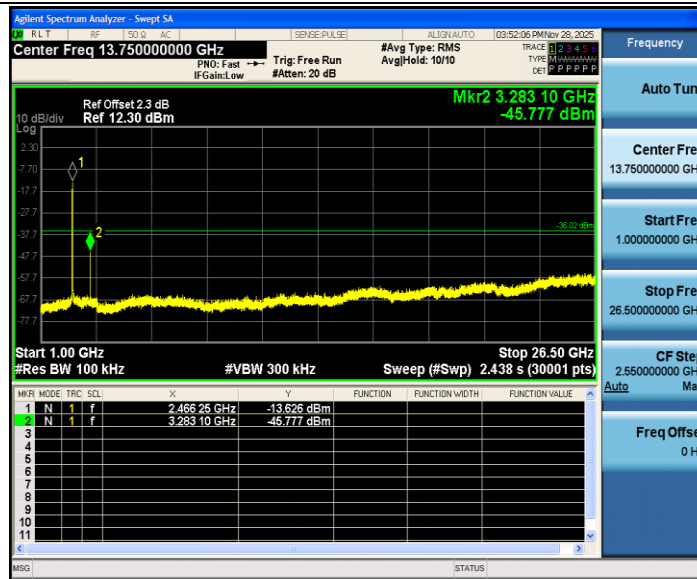
11G_Ant1_2462_0~Reference



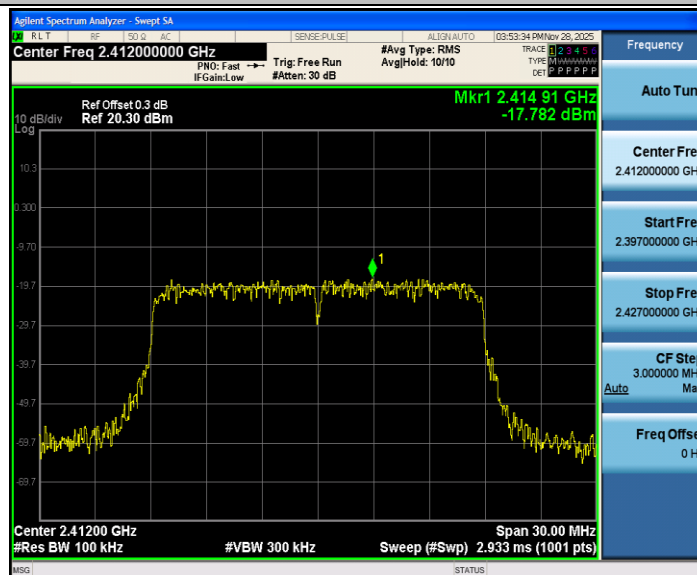
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

