

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BV7A-V06

Company : SMARTCORE TECHNOLOGIES LIMITED

EUT : Intelligent glasses

Model Number : V06

Report No. : CTA26050700402

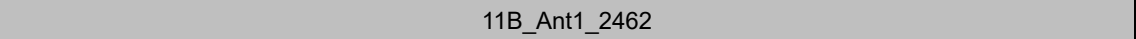
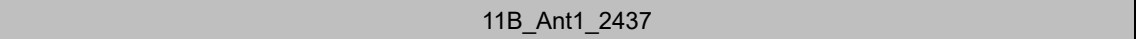
Reviewed By : Eric Wang

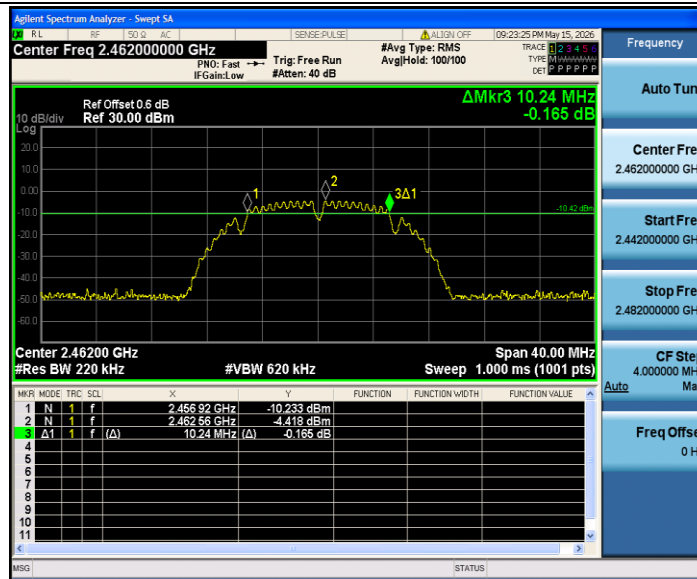
Appendix A: DTS Bandwidth

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	16.000	2404.000	2420.000	0.5	PASS
		2437	15.600	2429.240	2444.840	0.5	PASS
		2462	15.600	2454.040	2469.640	0.5	PASS
11N20SISO	Ant1	2412	16.720	2403.680	2420.400	0.5	PASS
		2437	16.840	2428.520	2445.360	0.5	PASS
		2462	16.760	2453.880	2470.640	0.5	PASS

11B_Ant1_2412





11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



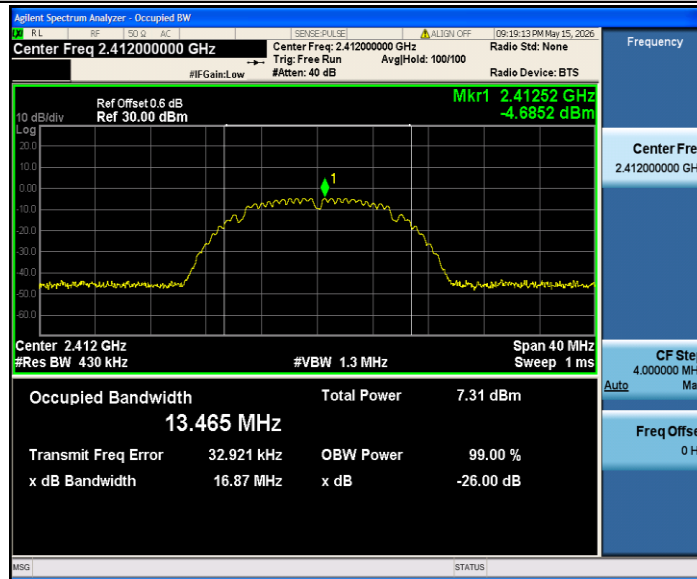
Appendix B: Occupied Channel Bandwidth

Test Result

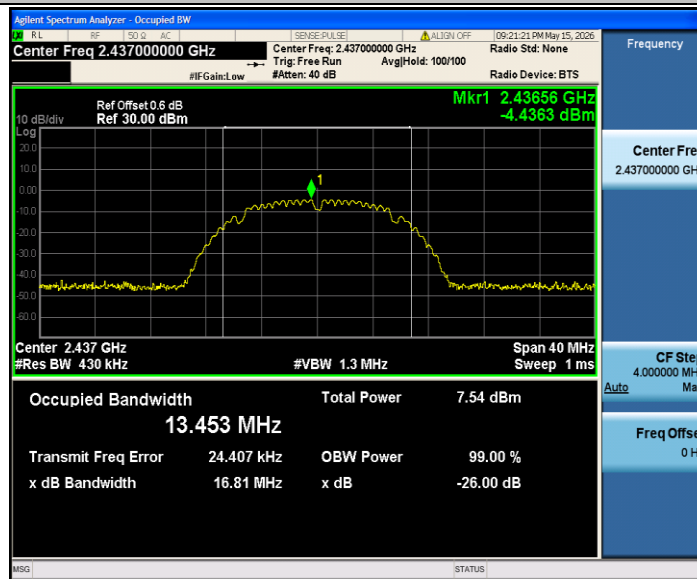
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.465	2405.3004	2418.7654	---	---
		2437	13.453	2430.2979	2443.7509	---	---
		2462	13.464	2455.2871	2468.7511	---	---
11G	Ant1	2412	16.818	2403.5890	2420.4070	---	---
		2437	16.889	2428.6206	2445.5096	---	---
		2462	16.876	2453.6472	2470.5232	---	---
11N20SISO	Ant1	2412	17.870	2403.1171	2420.9871	---	---
		2437	17.897	2428.0400	2445.9370	---	---
		2462	18.014	2452.9903	2471.0043	---	---

Test Graphs

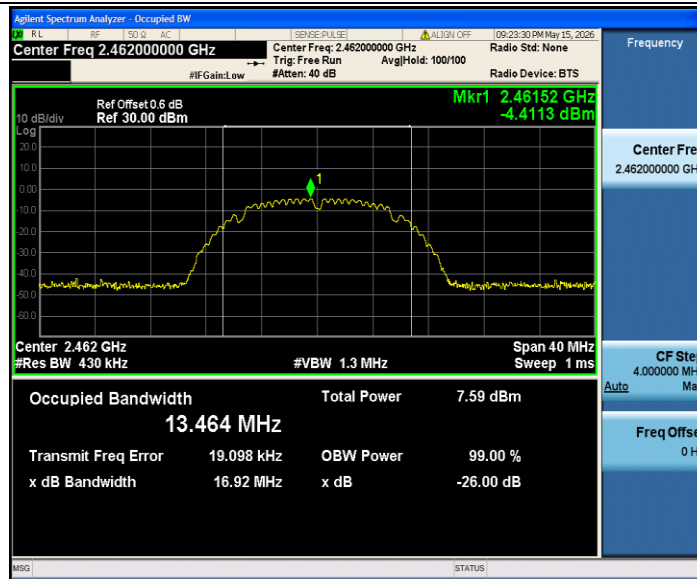
11B_Ant1_2412



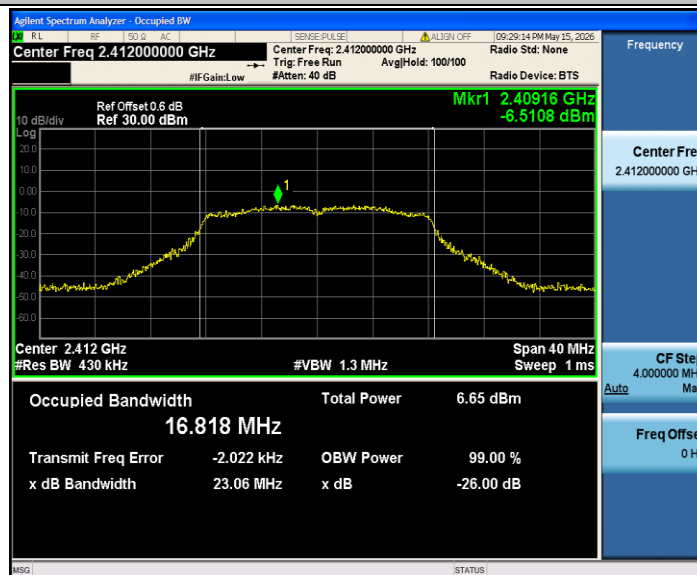
11B_Ant1_2437



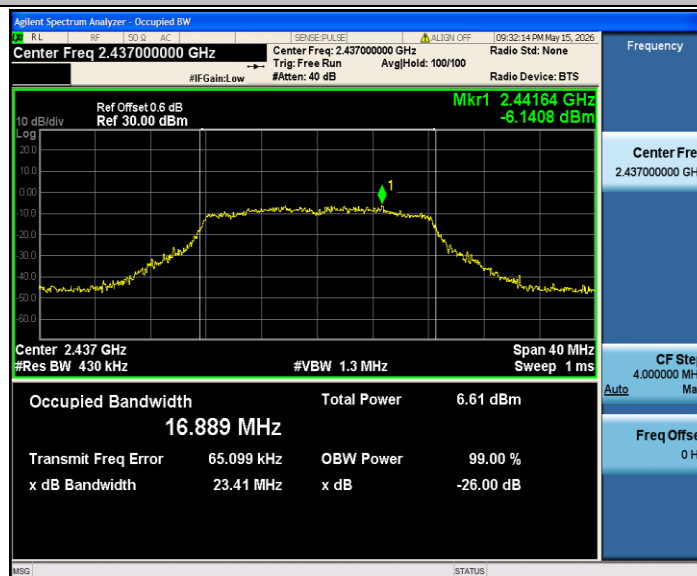
11B_Ant1_2462



11G_Ant1_2412



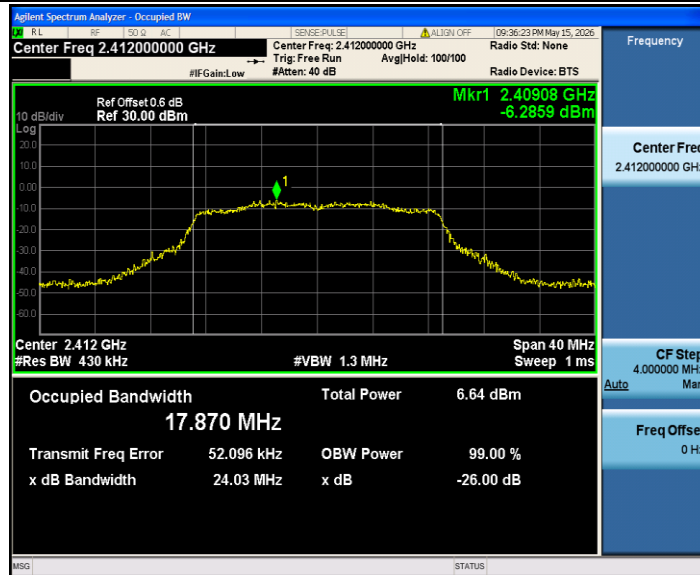
11G_Ant1_2437



11G_Ant1_2462



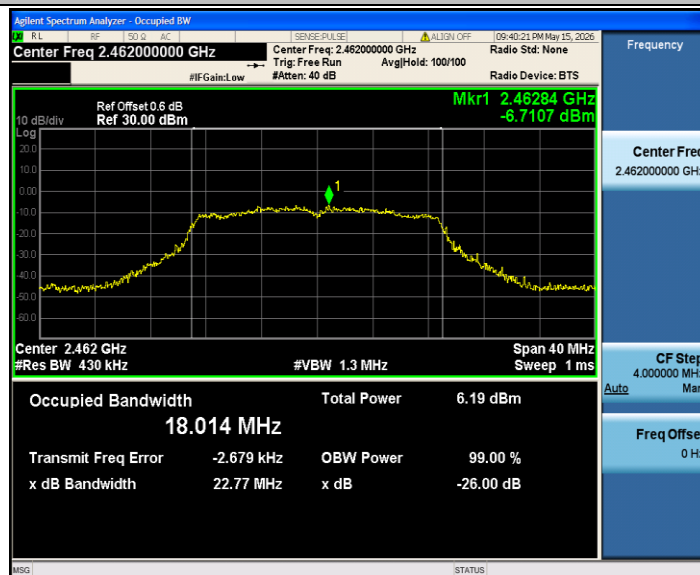
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	6.82	≤30.00	PASS
		2437	7.18	≤30.00	PASS
		2462	7.27	≤30.00	PASS
11G	Ant1	2412	7.61	≤30.00	PASS
		2437	7.47	≤30.00	PASS
		2462	7.14	≤30.00	PASS
11N20SISO	Ant1	2412	7.46	≤30.00	PASS
		2437	7.38	≤30.00	PASS
		2462	7.05	≤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	-19.30	≤8.00	PASS
		2437	-18.88	≤8.00	PASS
		2462	-18.89	≤8.00	PASS
11G	Ant1	2412	-24.06	≤8.00	PASS
		2437	-24.36	≤8.00	PASS
		2462	-24.31	≤8.00	PASS
11N20SISO	Ant1	2412	-24.34	≤8.00	PASS
		2437	-23.24	≤8.00	PASS
		2462	-24.71	≤8.00	PASS

Test Graphs

11B_Ant1_2412



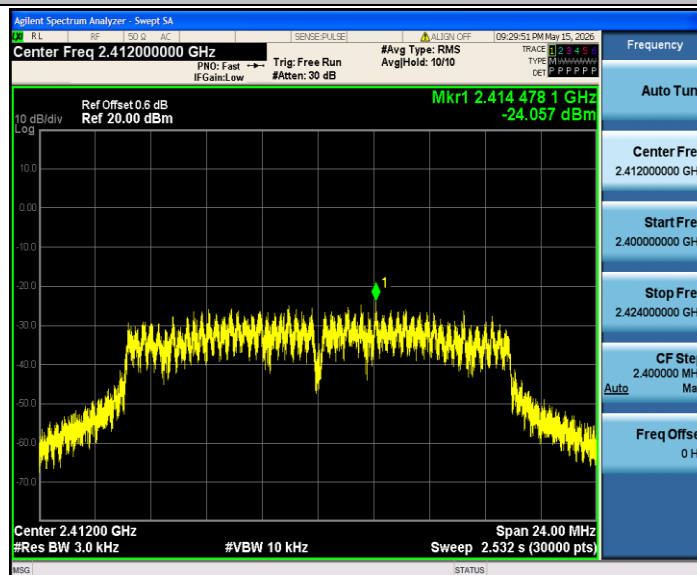
11B_Ant1_2437



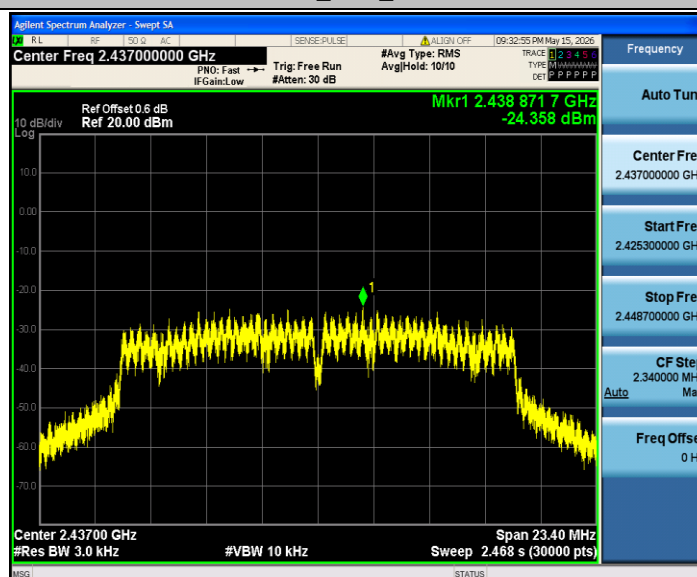
11B_Ant1_2462



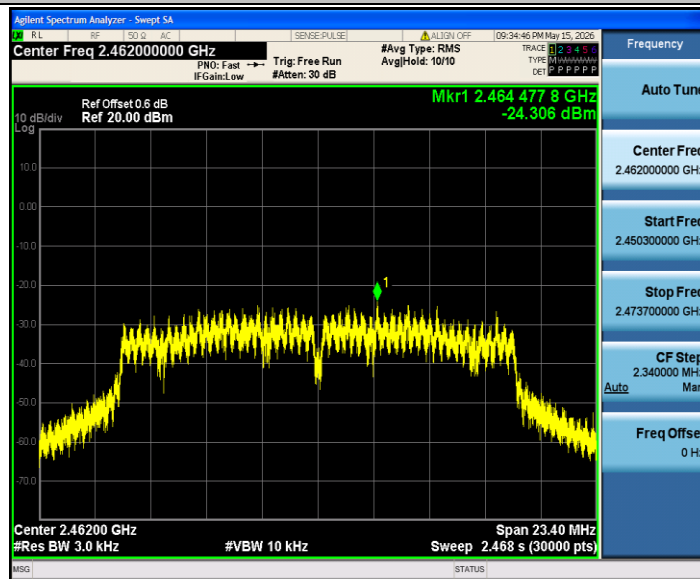
11G_Ant1_2412



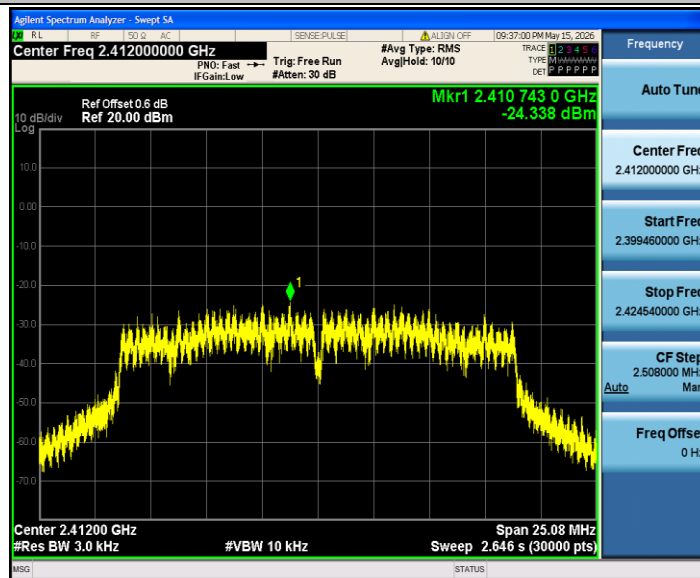
11G_Ant1_2437



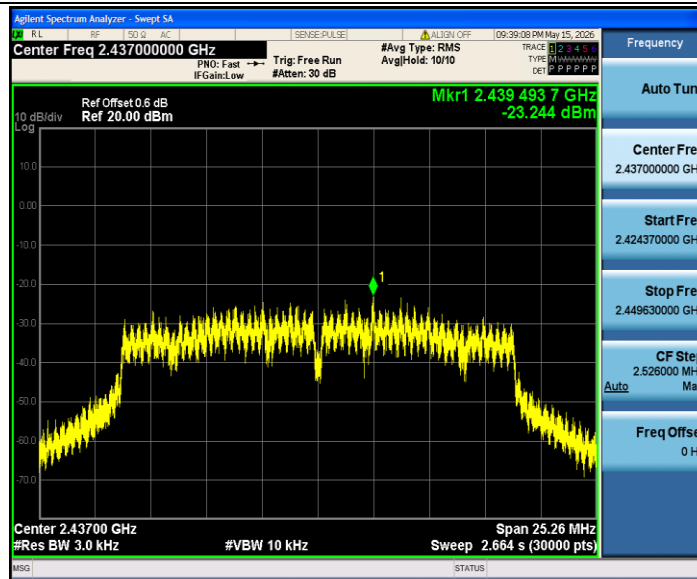
11G_Ant1_2462



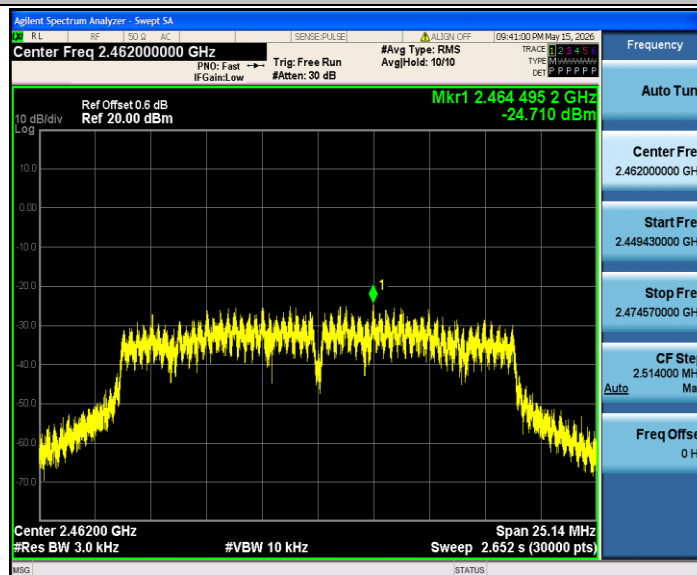
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



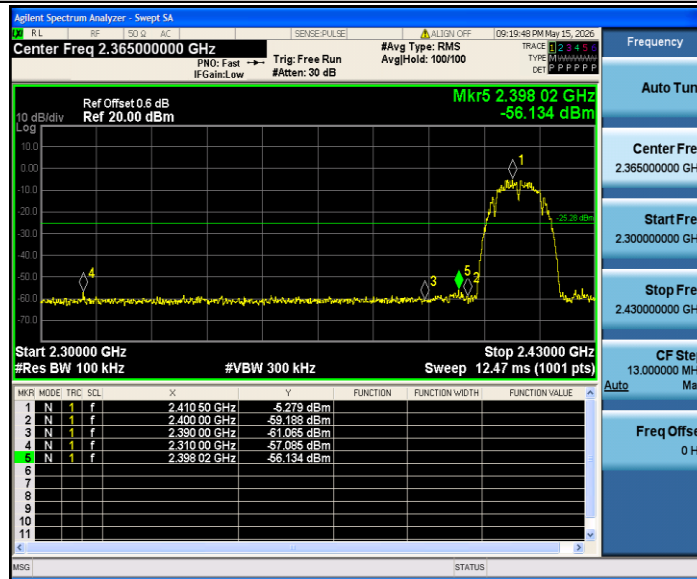
Appendix E: Band edge measurements

Test Result

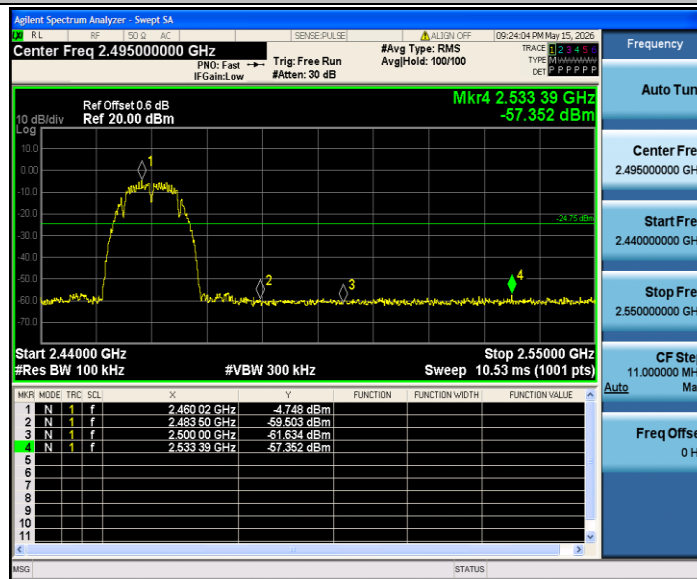
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.28	-56.13	≤-25.28	PASS
		High	2462	-4.75	-57.35	≤-24.75	PASS
11G	Ant1	Low	2412	-9.03	-38.74	≤-29.03	PASS
		High	2462	-9.28	-57.46	≤-29.28	PASS
11N20SISO	Ant1	Low	2412	-8.93	-39.96	≤-28.93	PASS
		High	2462	-9.27	-57.38	≤-29.27	PASS

Test Graphs

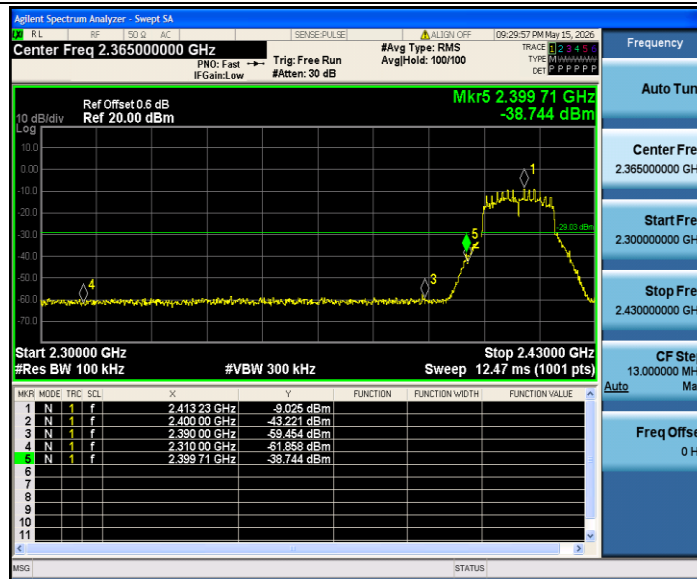
11B_Ant1_Low_2412



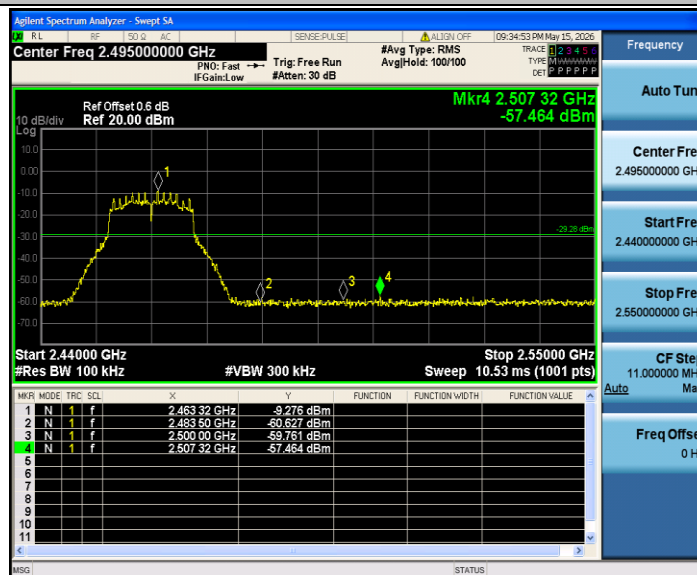
11B_Ant1_High_2462



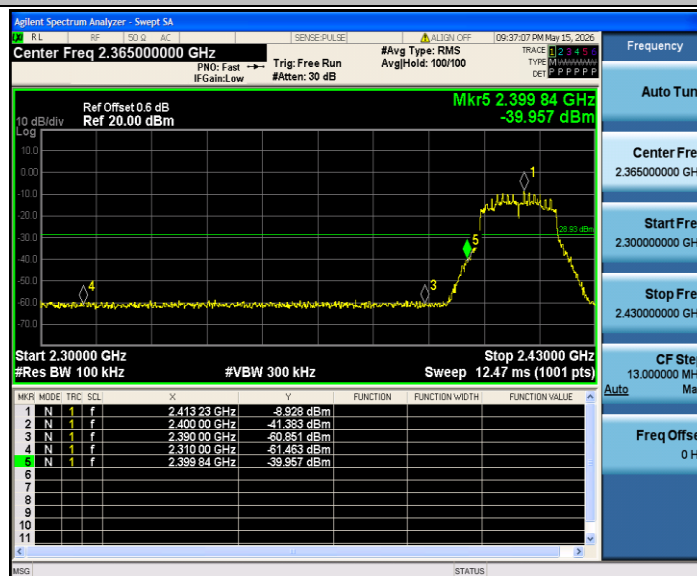
11G_Ant1_Low_2412



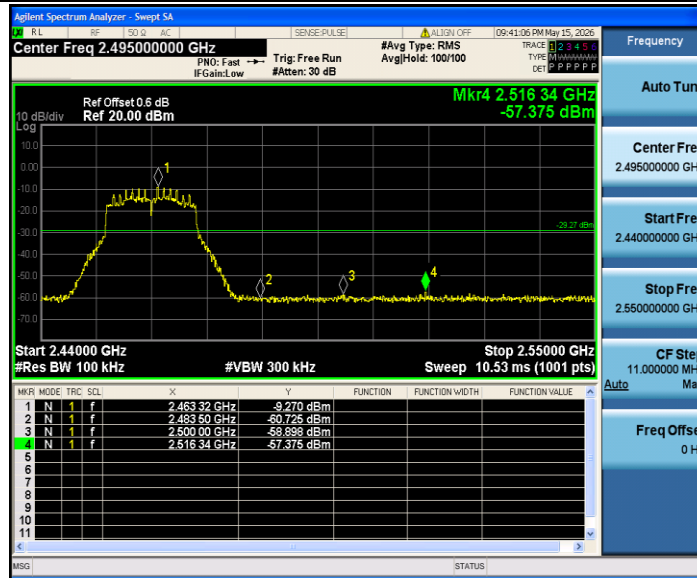
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

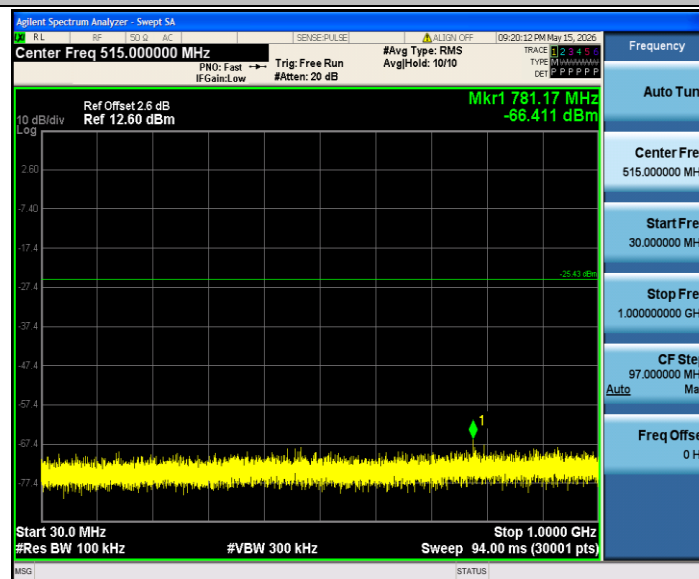
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-66.41	≤-25.43	PASS
			1000~26500	-5.43	-55.84	≤-25.43	PASS
		2437	Reference	-5.83	-5.83	---	PASS
			30~1000	-5.83	-67.04	≤-25.83	PASS
			1000~26500	-5.83	-55.76	≤-25.83	PASS
		2462	Reference	-5.92	-5.92	---	PASS
			30~1000	-5.92	-66.28	≤-25.92	PASS
			1000~26500	-5.92	-55.17	≤-25.92	PASS
11G	Ant1	2412	Reference	-8.93	-8.93	---	PASS
			30~1000	-8.93	-67.67	≤-28.93	PASS
			1000~26500	-8.93	-55.7	≤-28.93	PASS
		2437	Reference	-9.60	-9.60	---	PASS
			30~1000	-9.60	-67.45	≤-29.6	PASS
			1000~26500	-9.60	-55.86	≤-29.6	PASS
		2462	Reference	-10.69	-10.69	---	PASS
			30~1000	-10.69	-67.45	≤-30.69	PASS
			1000~26500	-10.69	-54.8	≤-30.69	PASS
11N20SISO	Ant1	2412	Reference	-9.24	-9.24	---	PASS
			30~1000	-9.24	-68.11	≤-29.24	PASS
			1000~26500	-9.24	-55.46	≤-29.24	PASS
		2437	Reference	-9.58	-9.58	---	PASS
			30~1000	-9.58	-67.39	≤-29.58	PASS
			1000~26500	-9.58	-55.5	≤-29.58	PASS
		2462	Reference	-9.28	-9.28	---	PASS
			30~1000	-9.28	-68.21	≤-29.28	PASS
			1000~26500	-9.28	-54.72	≤-29.28	PASS

Test Graphs

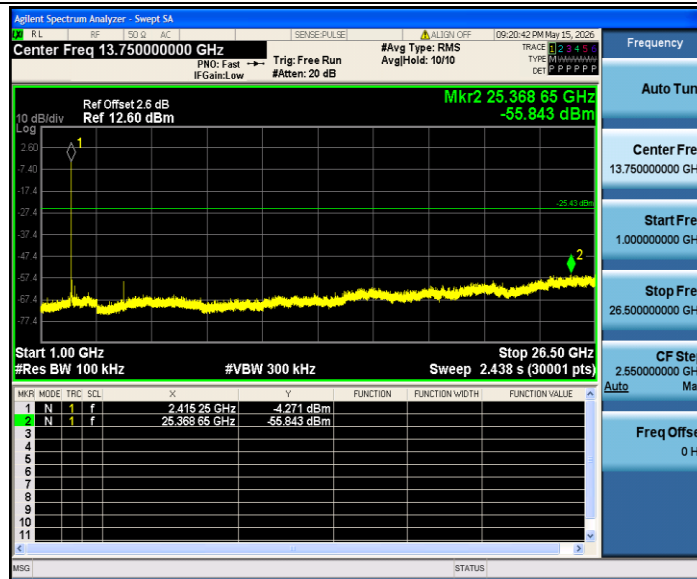
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



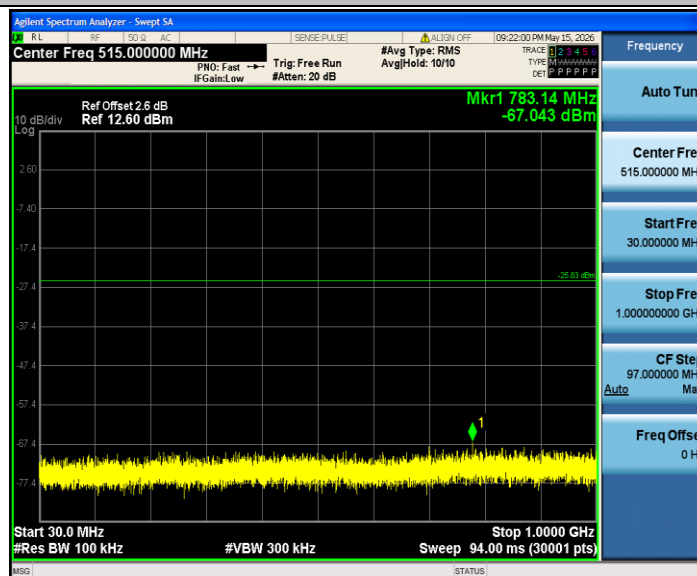
11B_Ant1_2412_1000~26500



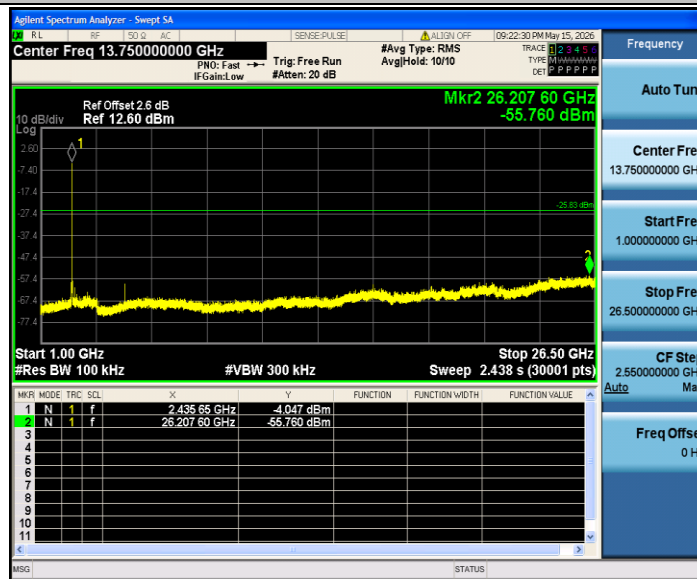
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



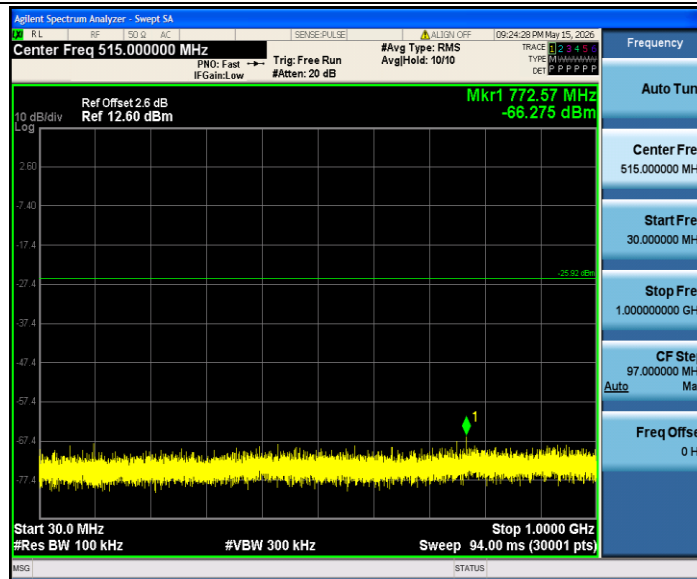
11B_Ant1_2437_1000~26500



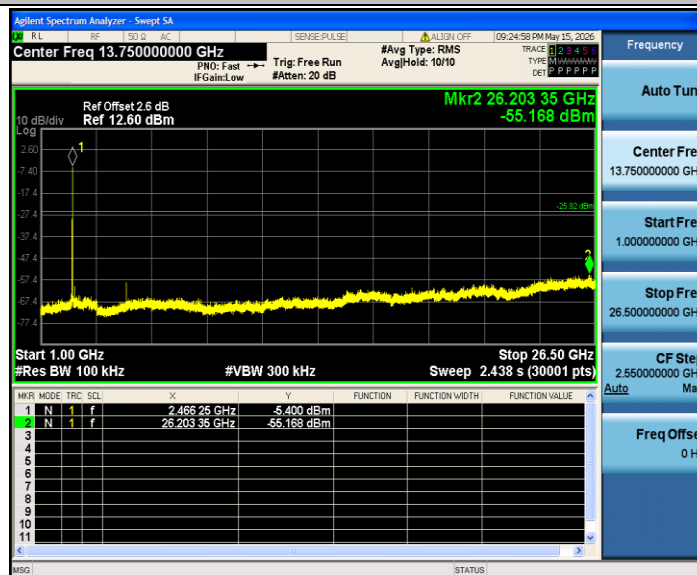
11B_Ant1_2462_0~Reference



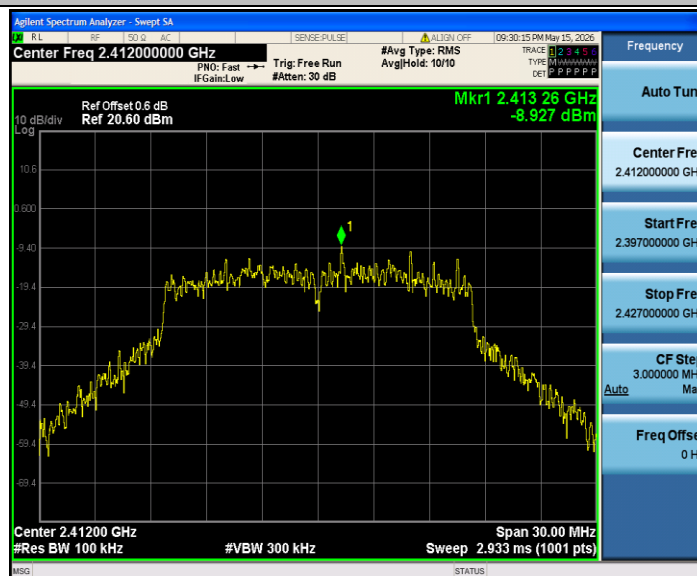
11B_Ant1_2462_30~1000



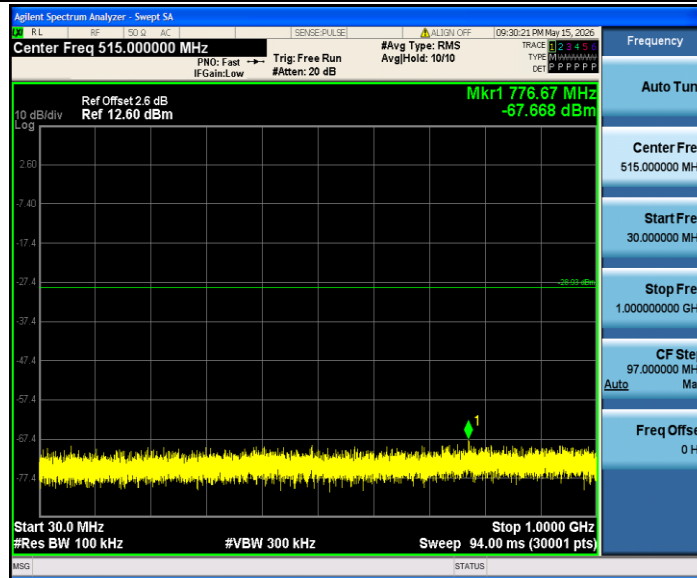
11B_Ant1_2462_1000~26500



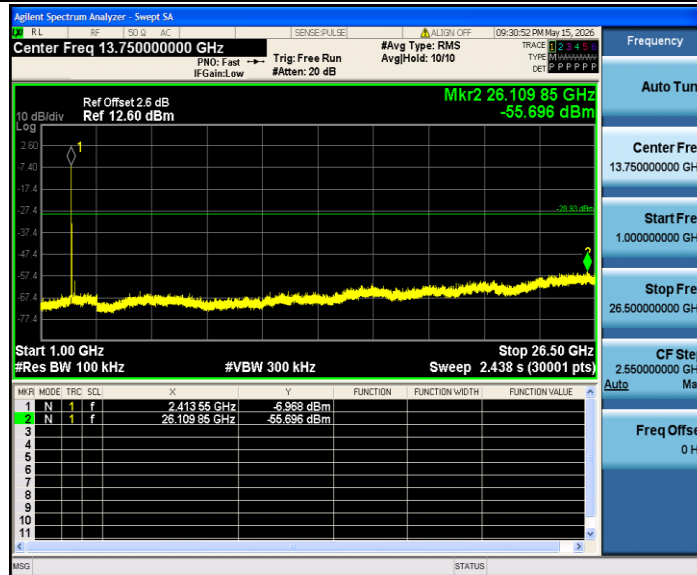
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



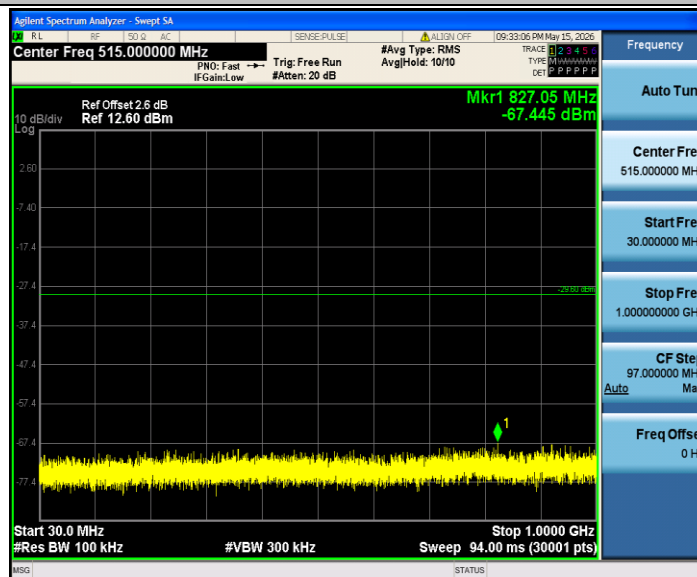
11G_Ant1_2412_1000~26500



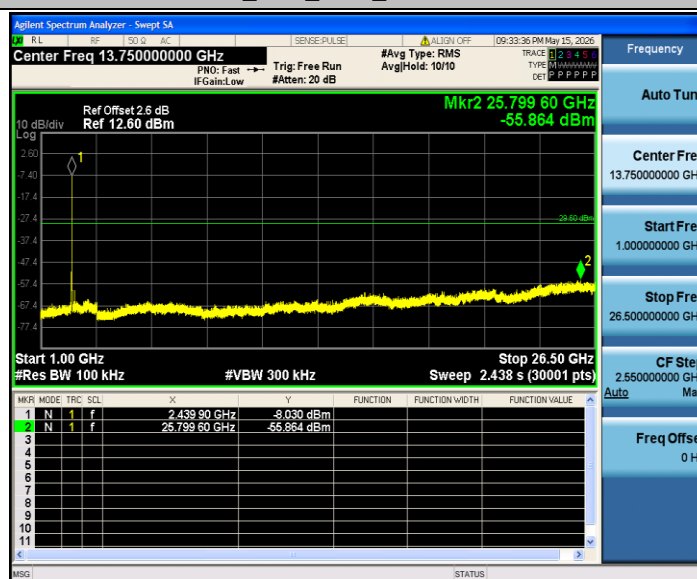
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



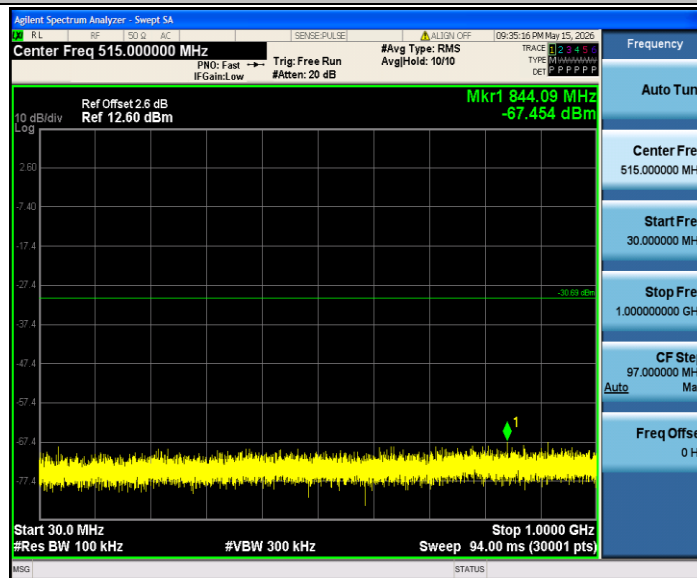
11G_Ant1_2437_1000~26500



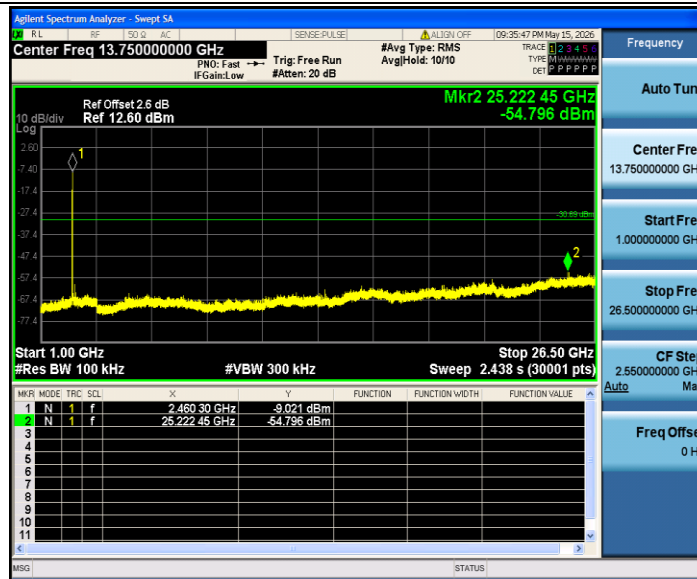
11G_Ant1_2462_0~Reference



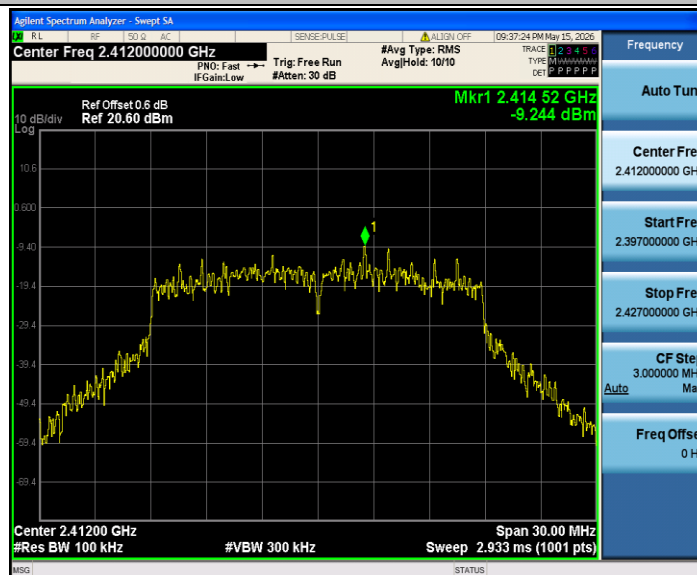
11G_Ant1_2462_30~1000



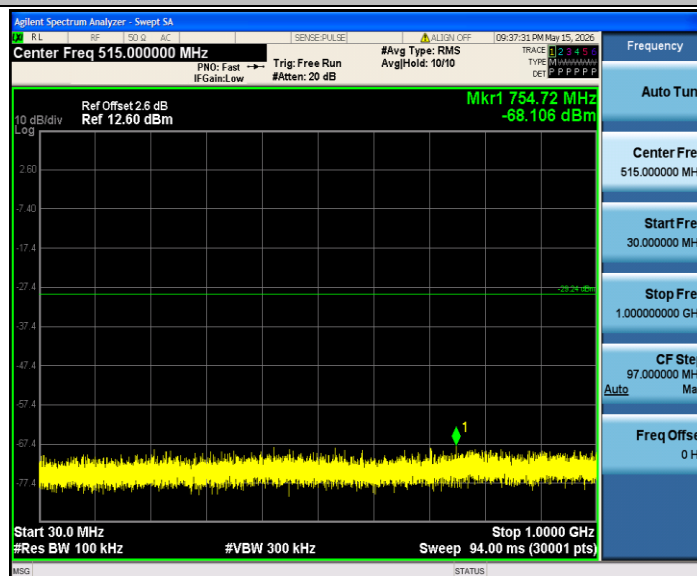
11G_Ant1_2462_1000~26500



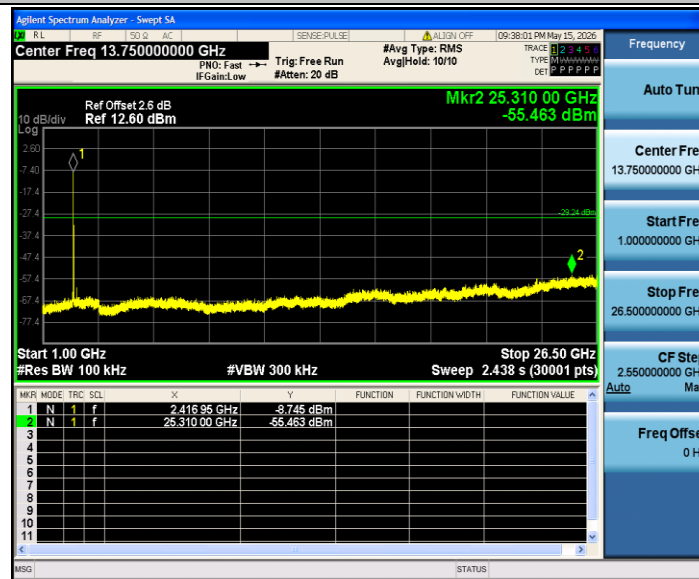
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



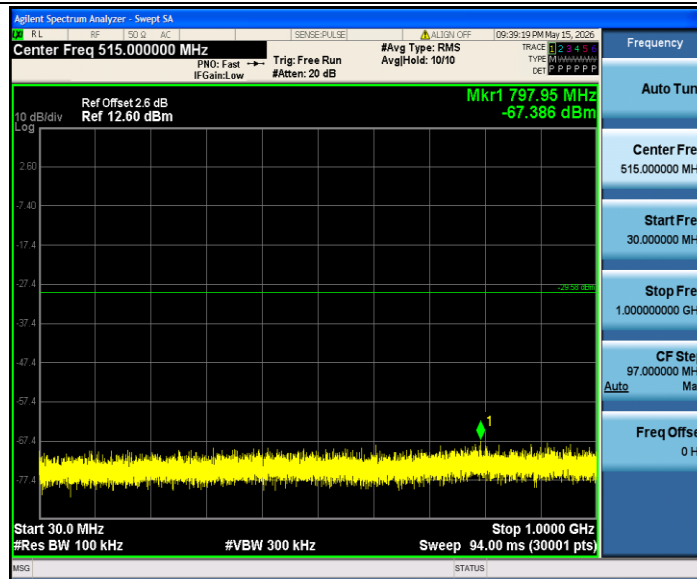
11N20SISO_Ant1_2412_1000~26500



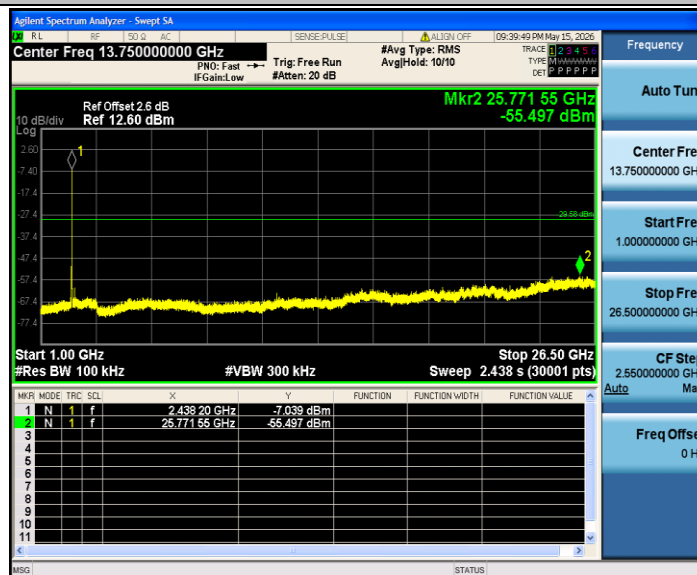
11N20SISO_Ant1_2437_0~Reference



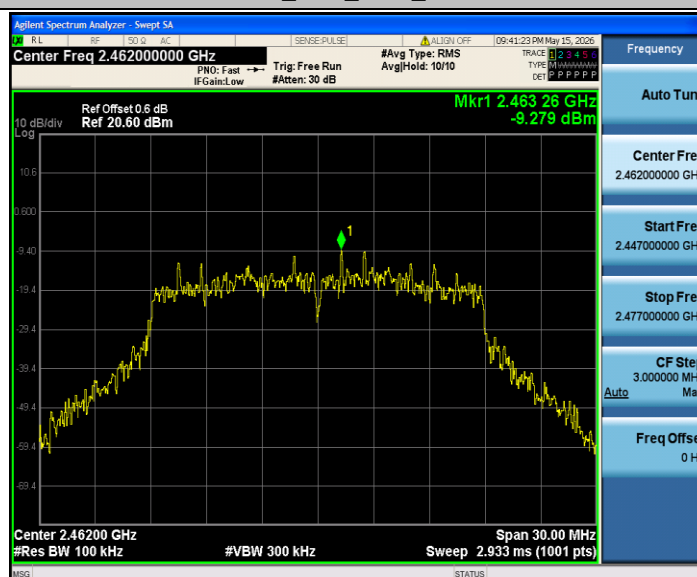
11N20SISO_Ant1_2437_30~1000



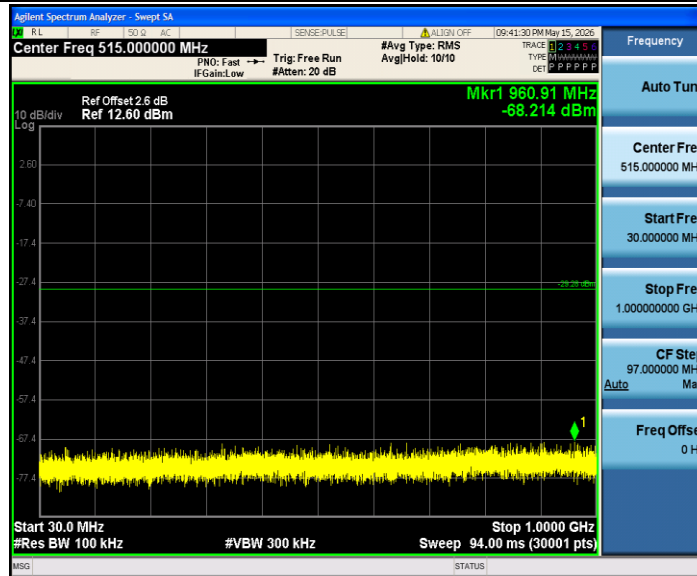
11N20SISO_Ant1_2437_1000~26500



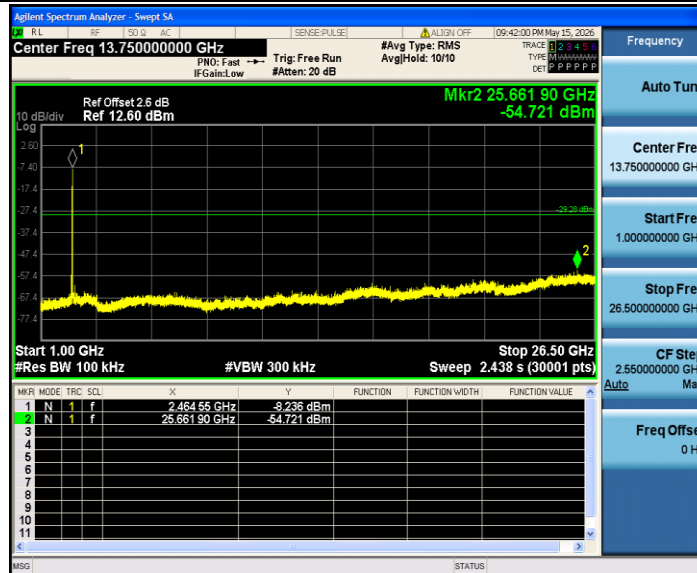
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.35	8.40	99.40	0.03	0.12
		2437	8.36	8.40	99.52	0.02	0.12
		2462	8.35	8.39	99.52	0.02	0.12
11G	Ant1	2412	0.15	0.19	78.95	1.03	6.67
		2437	0.15	0.20	75.00	1.25	6.67
		2462	0.15	0.19	78.95	1.03	6.67
11N20SISO	Ant1	2412	0.17	0.22	77.27	1.12	5.88
		2437	0.17	0.22	77.27	1.12	5.88
		2462	0.18	0.22	81.82	0.87	5.56