

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BU3T-DY-H3

Company : DEYEEROBOT(SHENZHEN) CO., LTD.

EUT : COMFORTABLE MASSAGE ROBOT

Model Number : DY-H3

Report No. : CTA26012900901

Reviewed By : Eric Wang

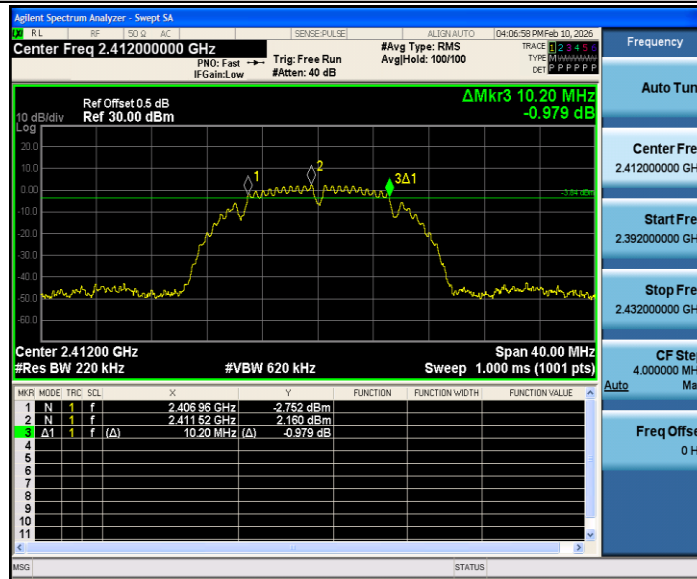
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.960	2417.160	0.5	PASS
		2437	10.200	2431.960	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.720	2404.280	2420.000	0.5	PASS
		2437	15.840	2429.160	2445.000	0.5	PASS
		2462	15.680	2454.360	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.520	2420.600	0.5	PASS
		2437	16.760	2428.440	2445.200	0.5	PASS
		2462	16.960	2453.600	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.160	2439.760	0.5	PASS
		2437	35.600	2419.480	2455.080	0.5	PASS
		2452	36.000	2434.000	2470.000	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



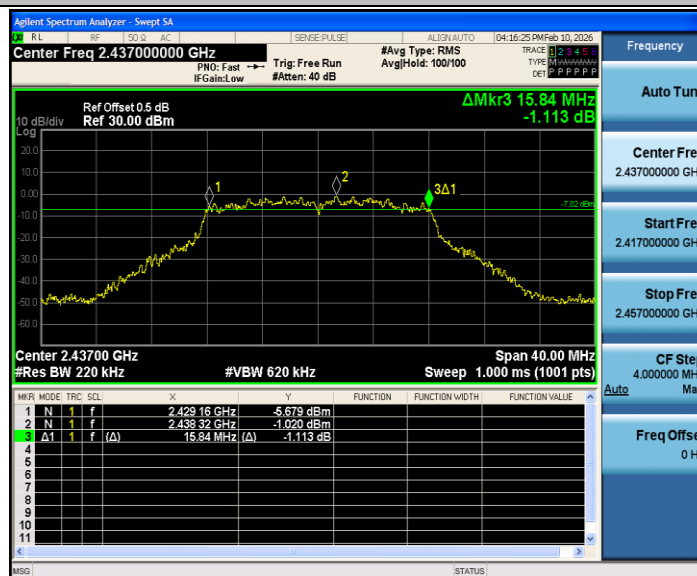
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



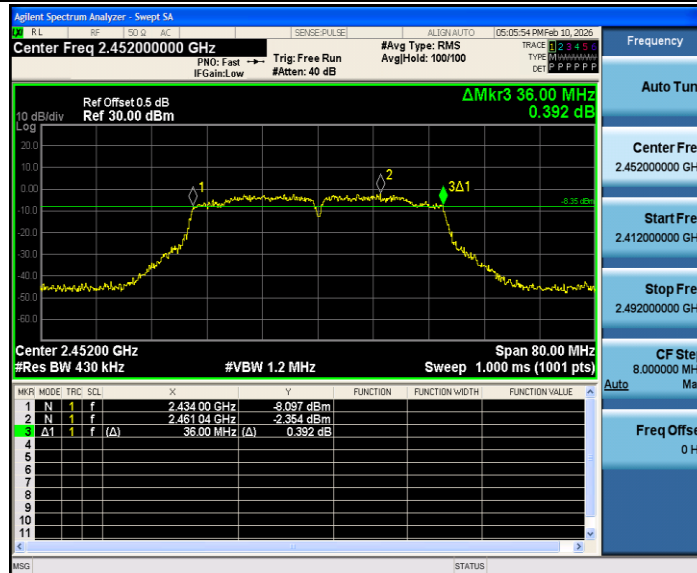
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



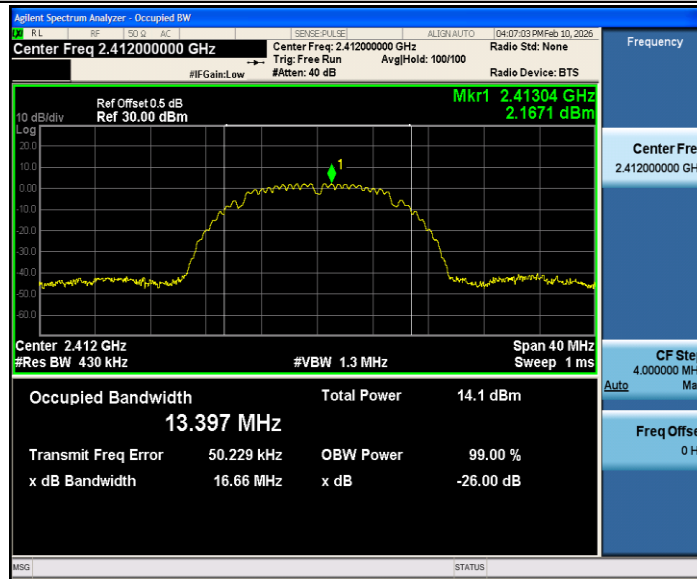
Appendix B: Occupied Channel Bandwidth

Test Result

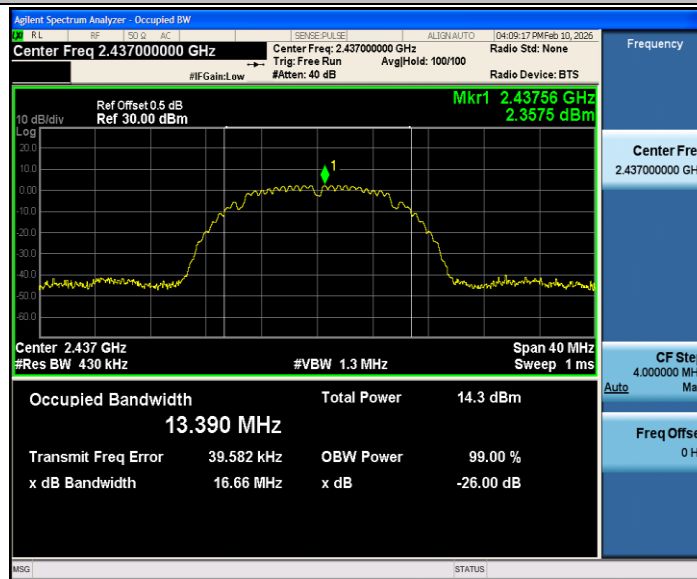
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.397	2405.3517	2418.7487	---	---
		2437	13.390	2430.3446	2443.7346	---	---
		2462	13.400	2455.3181	2468.7181	---	---
11G	Ant1	2412	16.788	2403.6896	2420.4776	---	---
		2437	16.806	2428.6679	2445.4739	---	---
		2462	16.826	2453.6179	2470.4439	---	---
11N20SISO	Ant1	2412	17.909	2403.0952	2421.0042	---	---
		2437	17.858	2428.0869	2445.9449	---	---
		2462	17.851	2453.1060	2470.9570	---	---
11N40SISO	Ant1	2422	36.006	2404.0804	2440.0864	---	---
		2437	35.992	2419.0682	2455.0602	---	---
		2452	36.058	2434.0211	2470.0791	---	---

Test Graphs

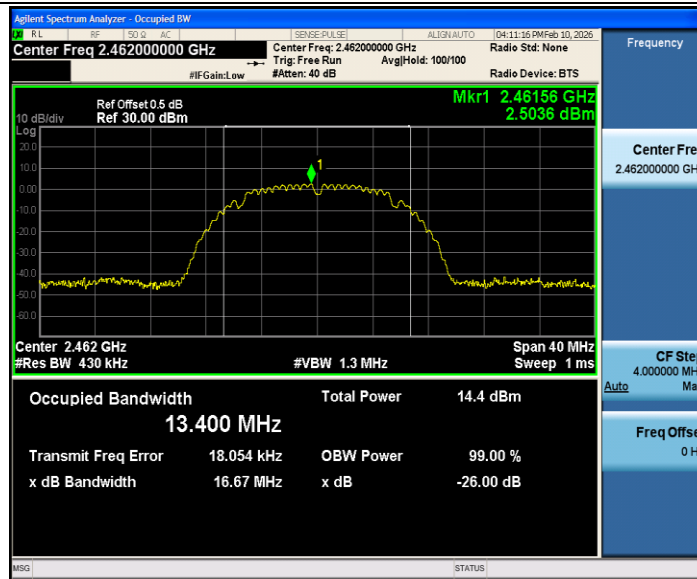
11B_Ant1_2412



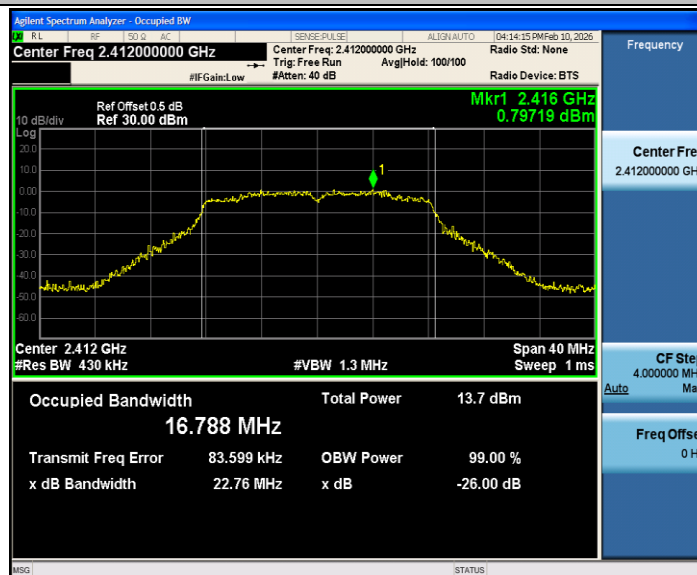
11B_Ant1_2437



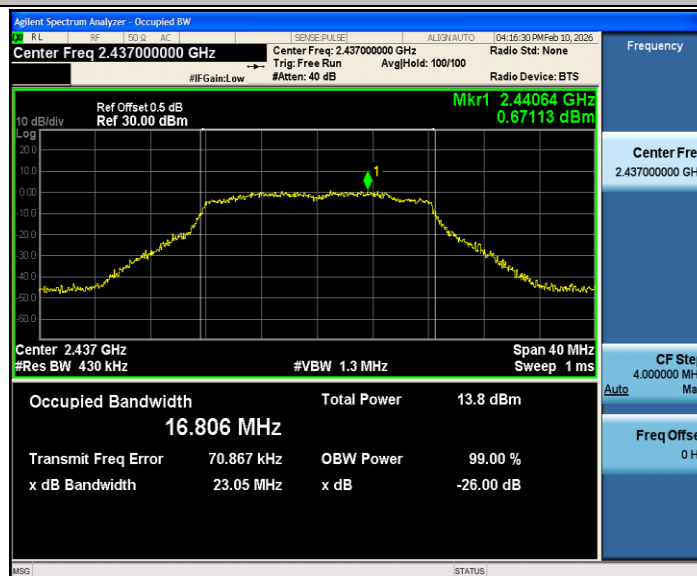
11B_Ant1_2462



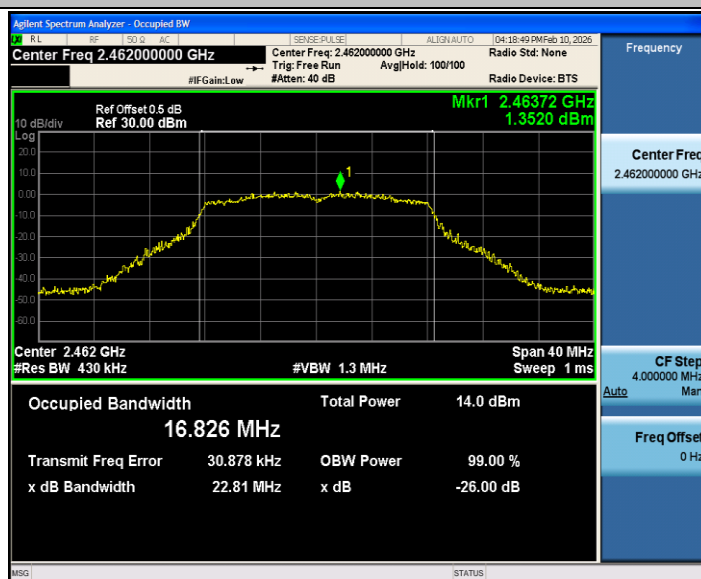
11G_Ant1_2412



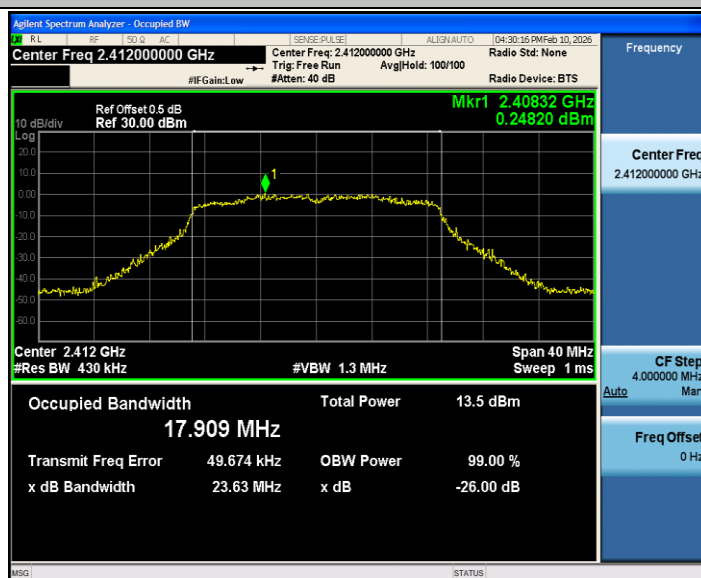
11G_Ant1_2437



11G_Ant1_2462



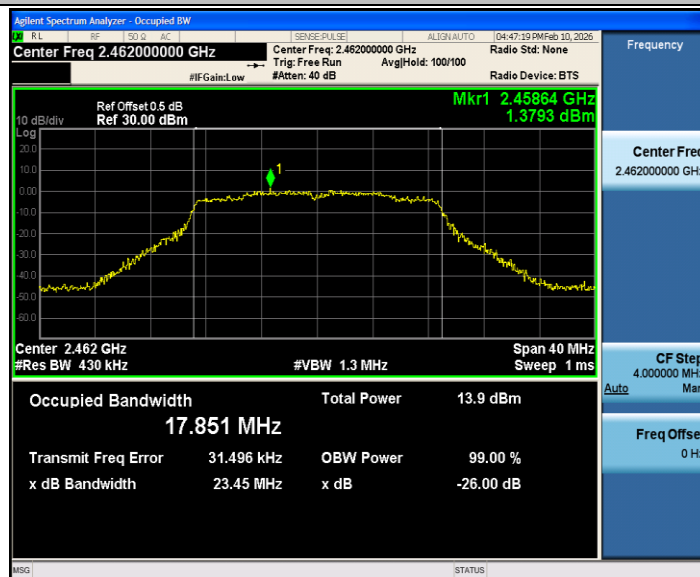
11N20SISO_Ant1_2412



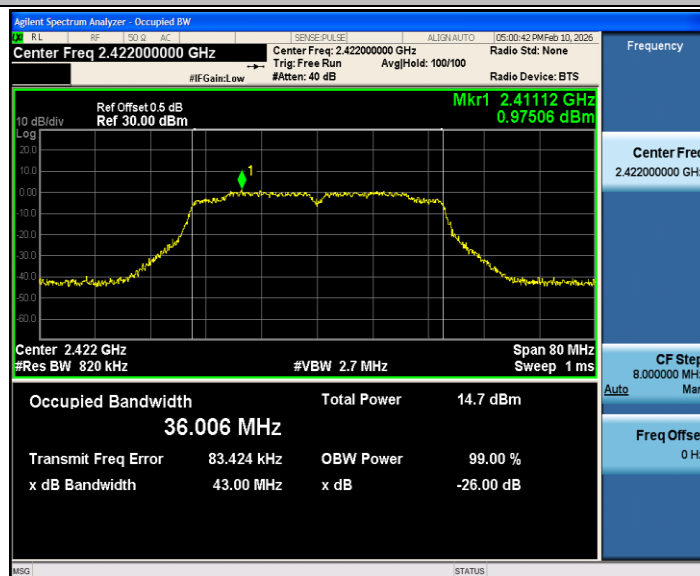
11N20SISO_Ant1_2437



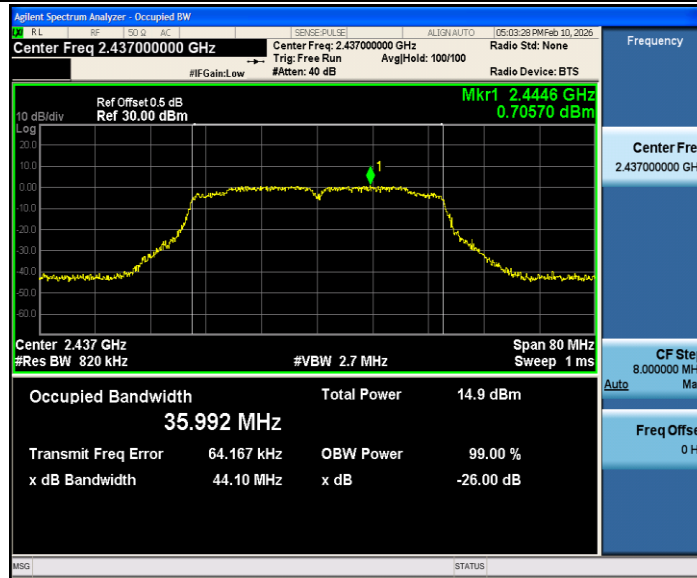
11N20SISO_Ant1_2462



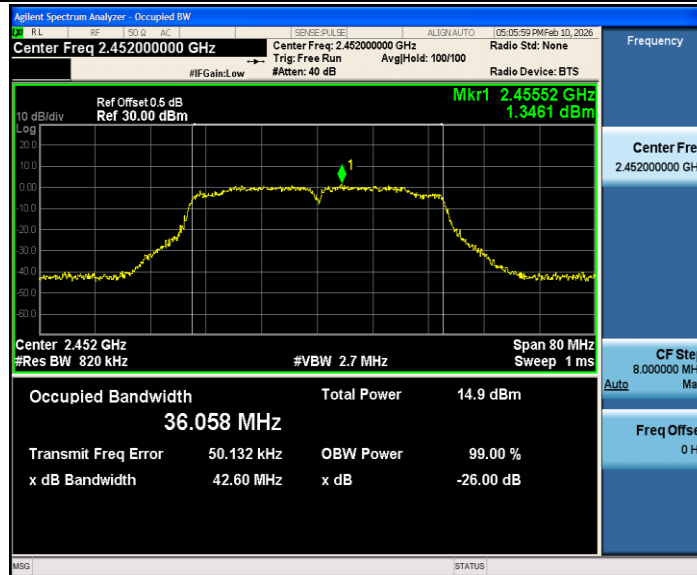
11N40SISO_Ant1_2422



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	13.80	≤30.00	PASS
		2437	14.07	≤30.00	PASS
		2462	14.17	≤30.00	PASS
11G	Ant1	2412	14.45	≤30.00	PASS
		2437	14.72	≤30.00	PASS
		2462	14.83	≤30.00	PASS
11N20SISO	Ant1	2412	14.46	≤30.00	PASS
		2437	14.56	≤30.00	PASS
		2462	14.80	≤30.00	PASS
11N40SISO	Ant1	2422	14.80	≤30.00	PASS
		2437	15.06	≤30.00	PASS
		2452	15.06	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

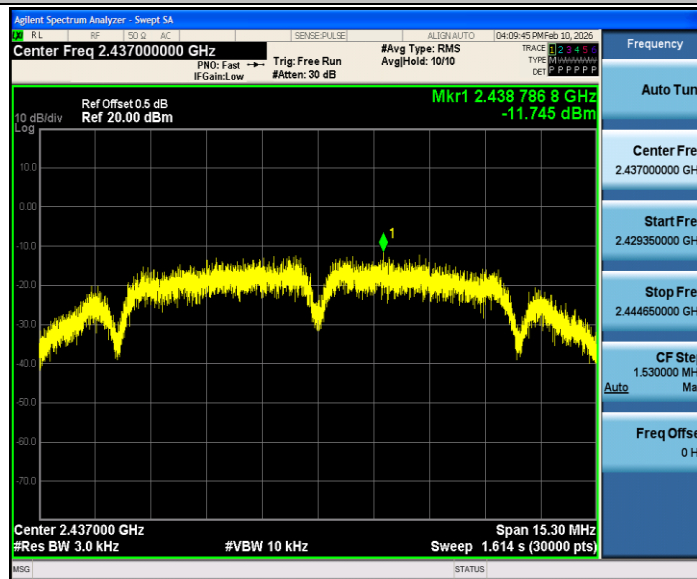
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.43	≤8.00	PASS
		2437	-11.75	≤8.00	PASS
		2462	-11.10	≤8.00	PASS
11G	Ant1	2412	-17.16	≤8.00	PASS
		2437	-17.20	≤8.00	PASS
		2462	-17.09	≤8.00	PASS
11N20SISO	Ant1	2412	-17.27	≤8.00	PASS
		2437	-16.91	≤8.00	PASS
		2462	-17.10	≤8.00	PASS
11N40SISO	Ant1	2422	-20.49	≤8.00	PASS
		2437	-20.08	≤8.00	PASS
		2452	-18.59	≤8.00	PASS

Test Graphs

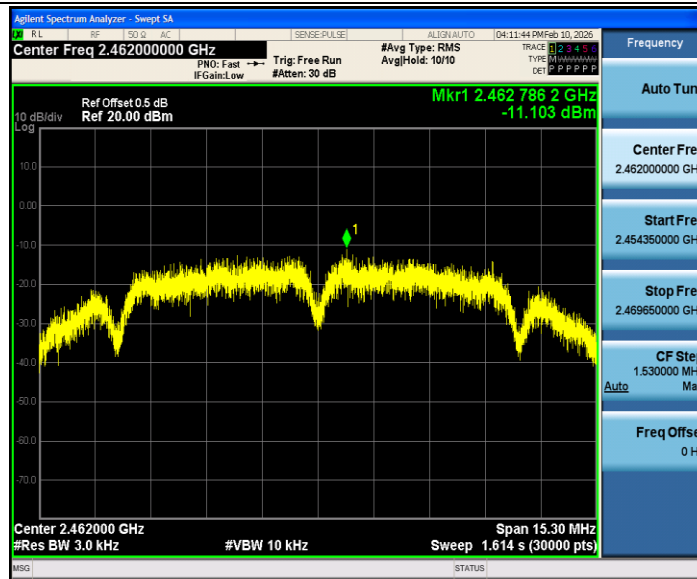
11B_Ant1_2412



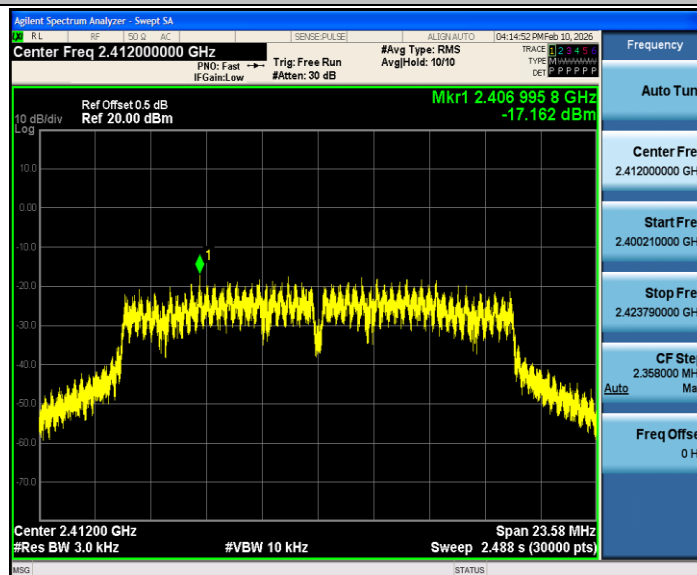
11B_Ant1_2437



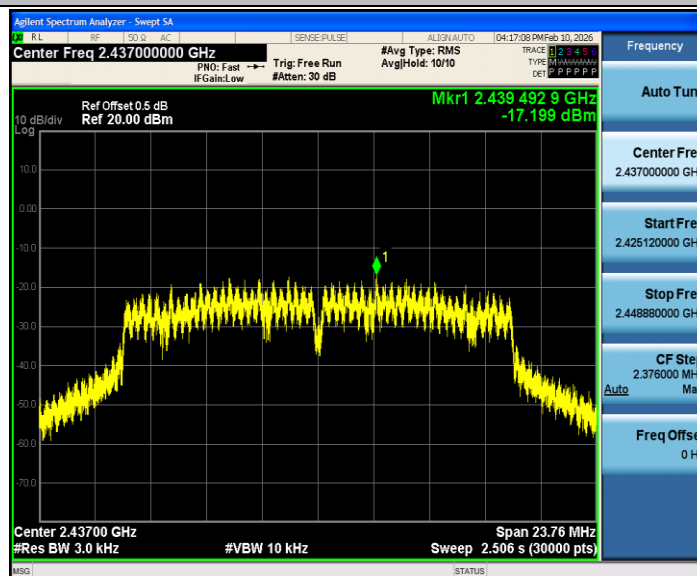
11B_Ant1_2462



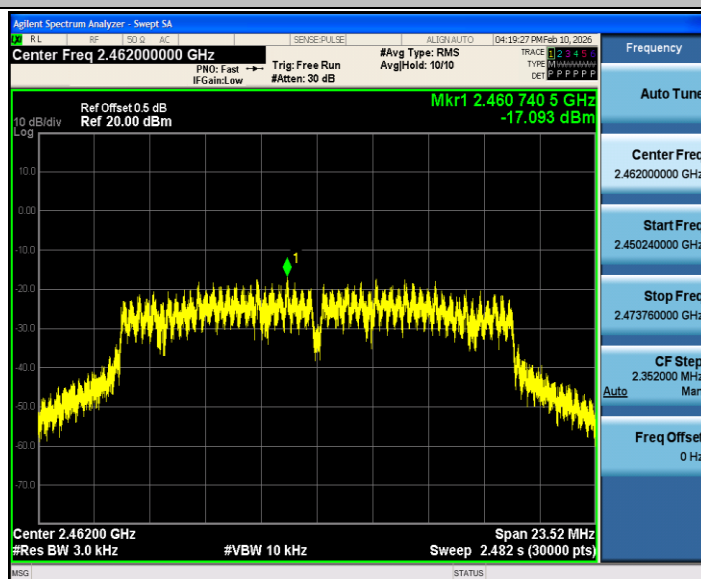
11G_Ant1_2412



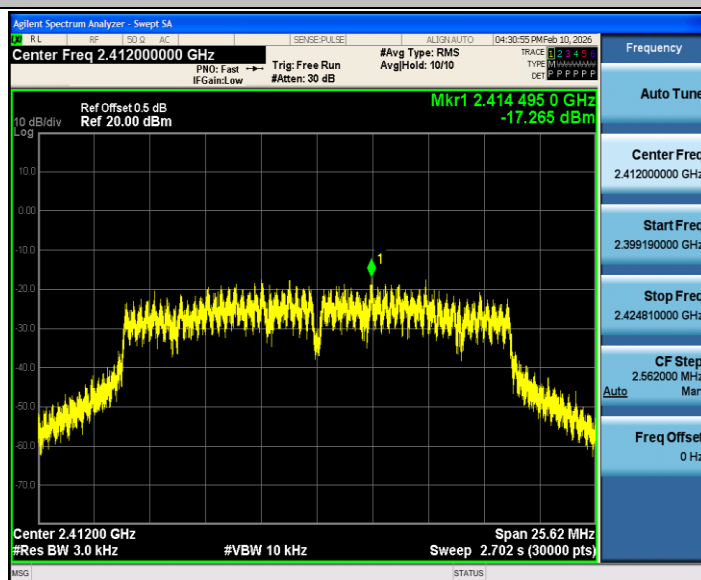
11G_Ant1_2437



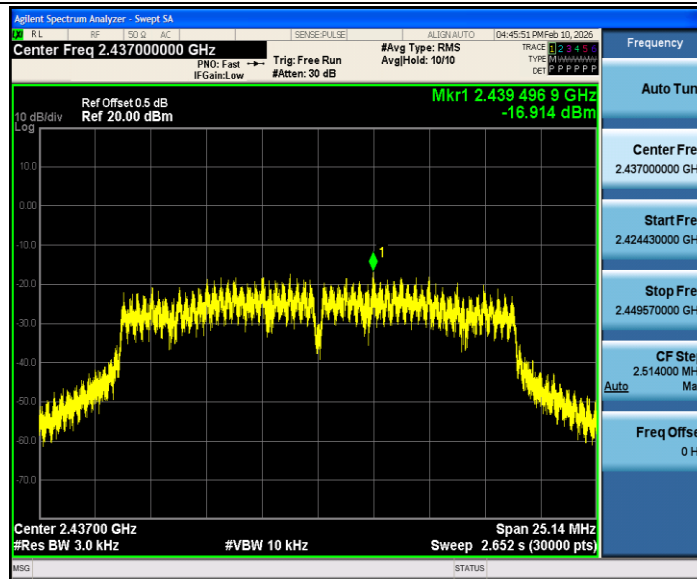
11G_Ant1_2462



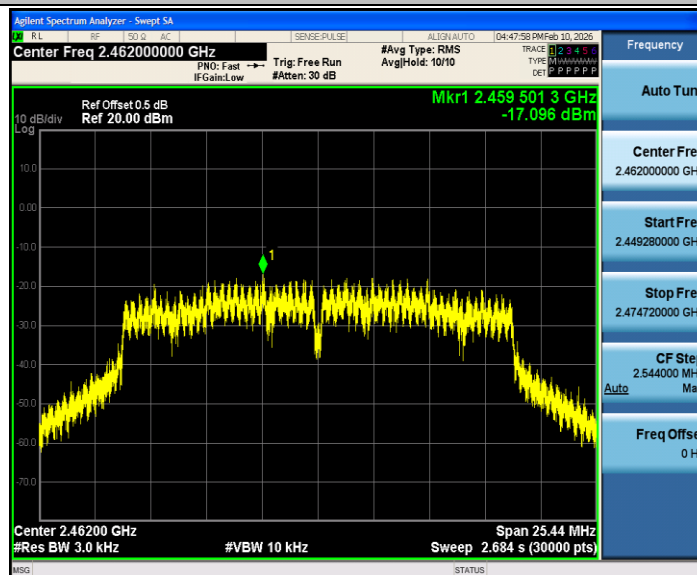
11N20SISO_Ant1_2412



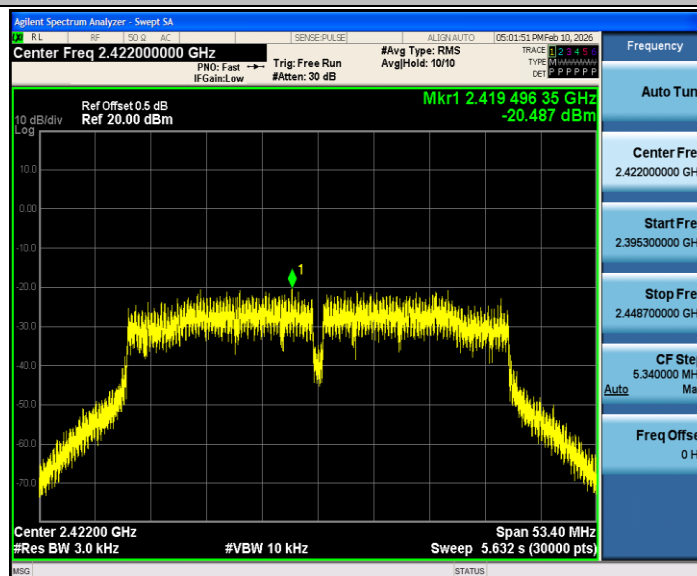
11N20SISO_Ant1_2437



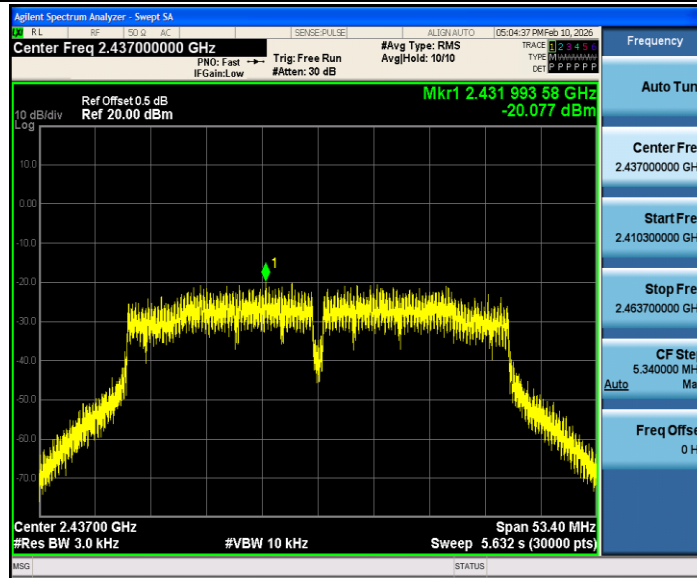
11N20SISO_Ant1_2462



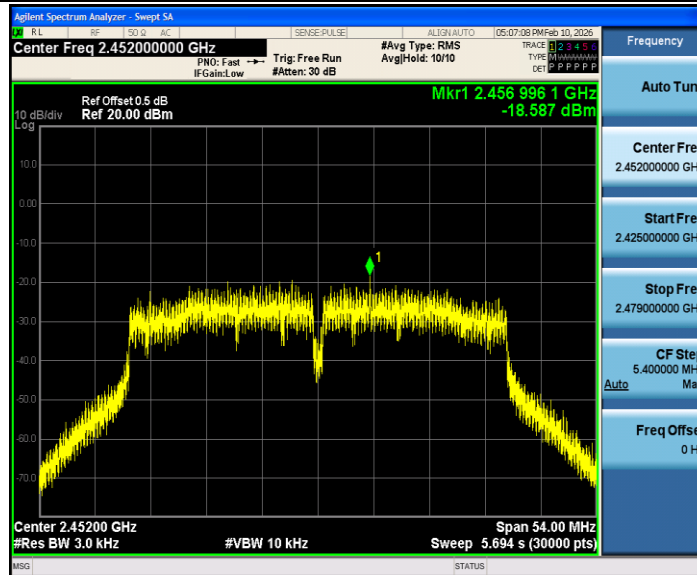
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



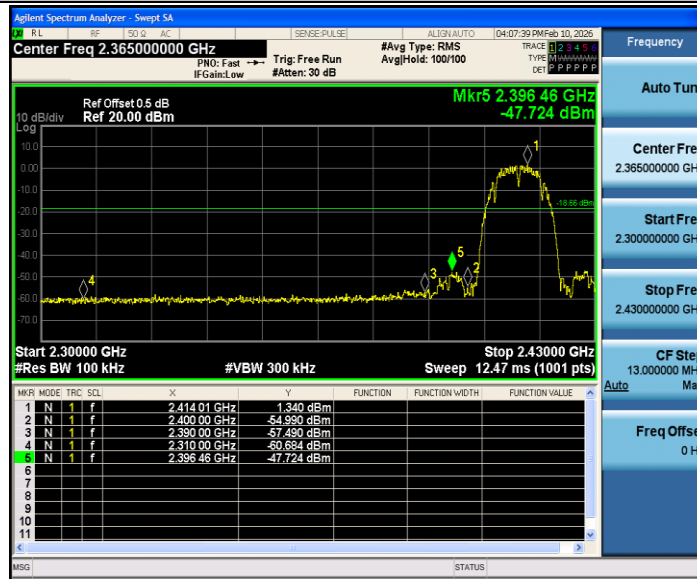
Appendix E: Band edge measurements

Test Result

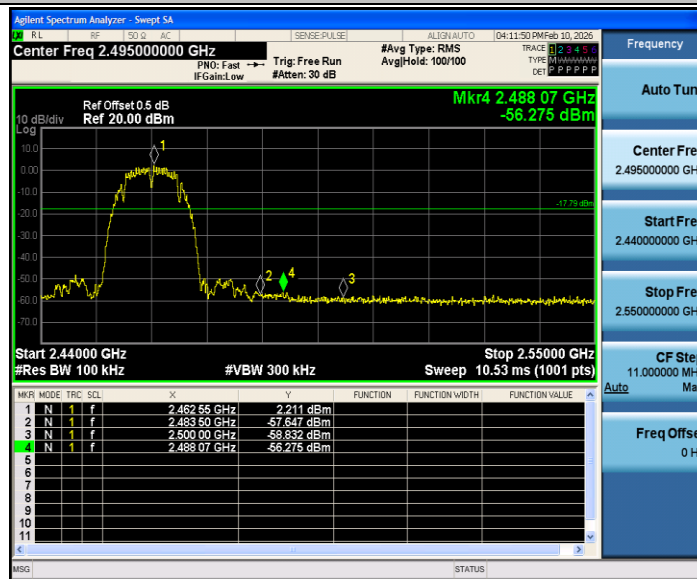
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.34	-47.72	≤-18.66	PASS
		High	2462	2.21	-56.28	≤-17.79	PASS
11G	Ant1	Low	2412	-1.90	-32.6	≤-21.9	PASS
		High	2462	-1.58	-57.3	≤-21.58	PASS
11N20SISO	Ant1	Low	2412	-2.14	-32.86	≤-22.14	PASS
		High	2462	-1.63	-57.75	≤-21.63	PASS
11N40SISO	Ant1	Low	2422	-5.14	-32.93	≤-25.14	PASS
		High	2452	-4.89	-56.54	≤-24.89	PASS

Test Graphs

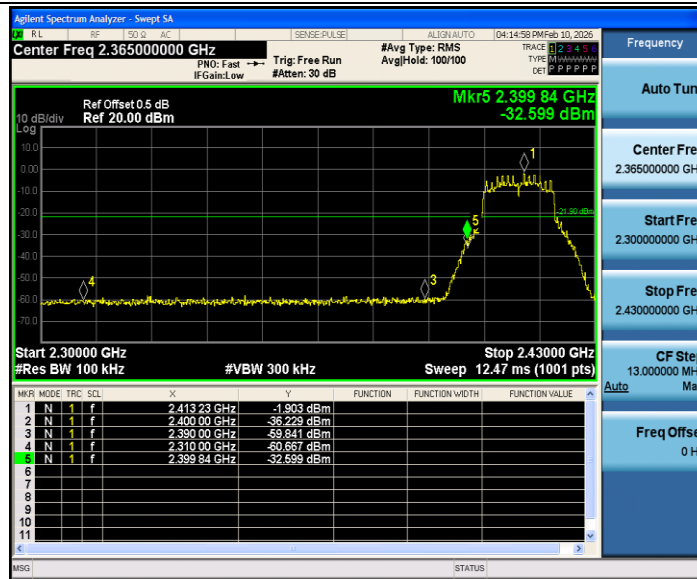
11B_Ant1_Low_2412



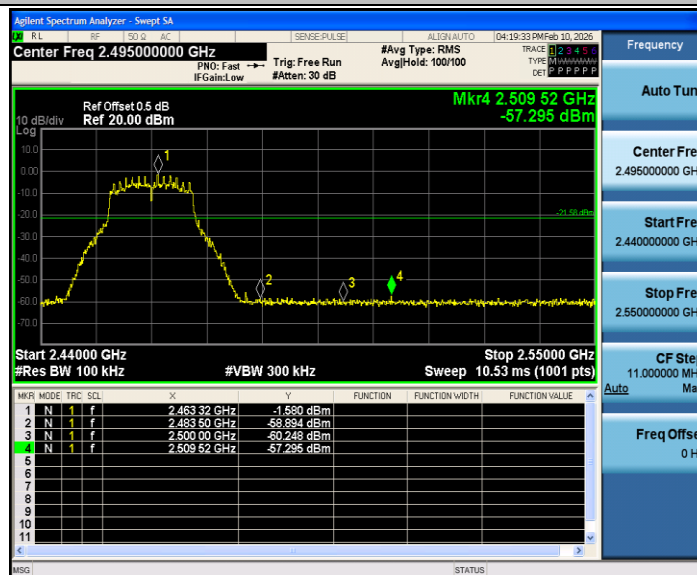
11B_Ant1_High_2462



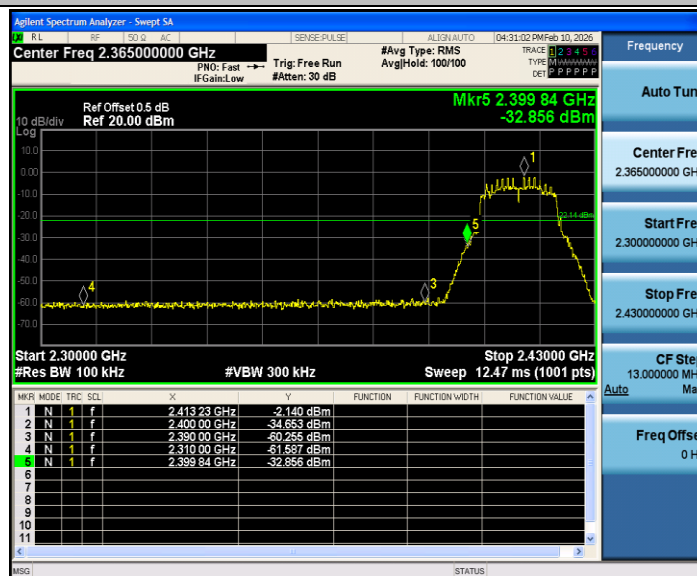
11G_Ant1_Low_2412



11G_Ant1_High_2462



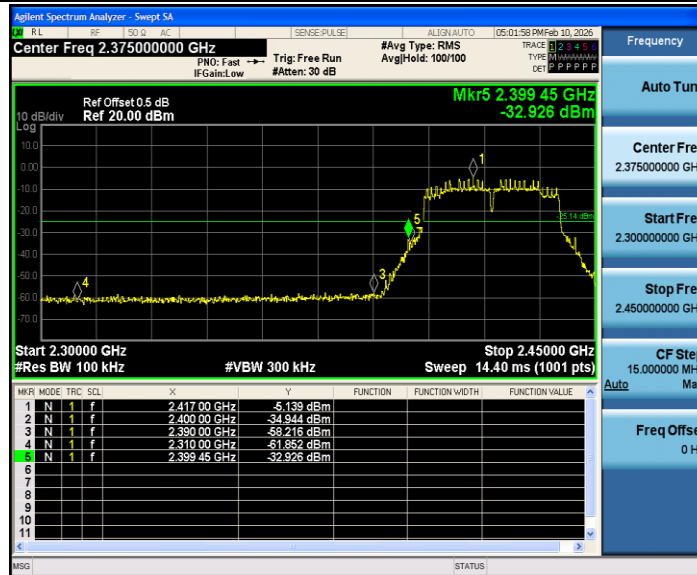
11N20SISO_Ant1_Low_2412



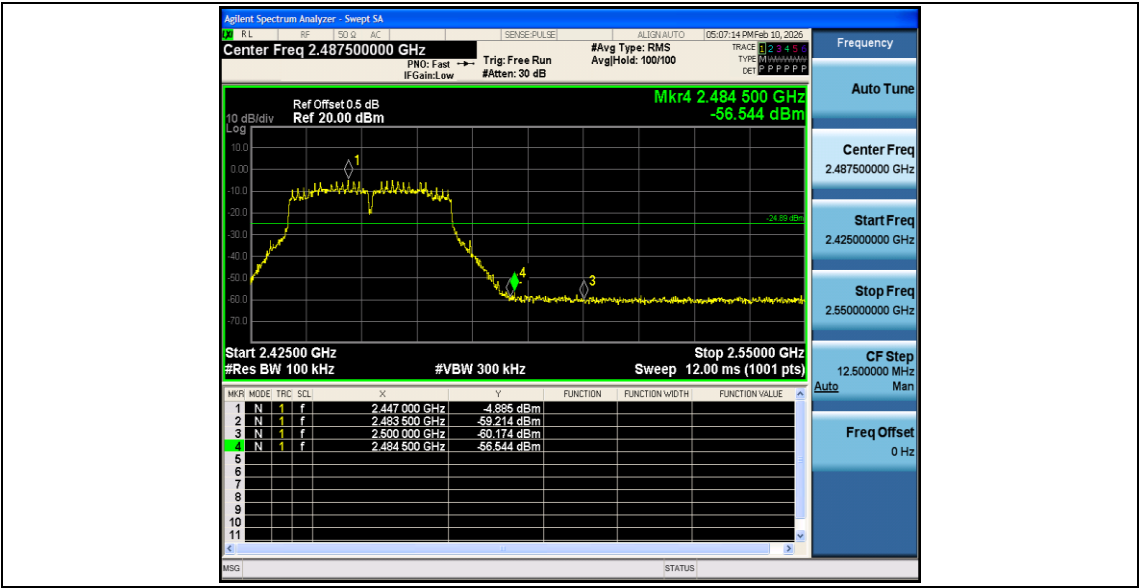
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

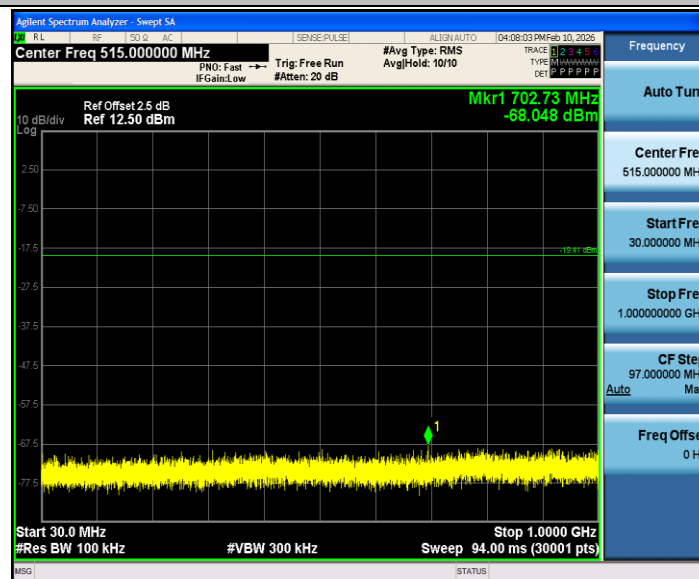
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-68.05	≤-19.41	PASS
			1000~26500	0.59	-55.25	≤-19.41	PASS
		2437	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-67.84	≤-18.87	PASS
			1000~26500	1.13	-54.53	≤-18.87	PASS
		2462	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-68.18	≤-18.17	PASS
			1000~26500	1.83	-54.95	≤-18.17	PASS
11G	Ant1	2412	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-68.07	≤-22.3	PASS
			1000~26500	-2.30	-51.33	≤-22.3	PASS
		2437	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-67.82	≤-22.4	PASS
			1000~26500	-2.40	-55.61	≤-22.4	PASS
		2462	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-67.48	≤-21.92	PASS
			1000~26500	-1.92	-54.76	≤-21.92	PASS
11N20SISO	Ant1	2412	Reference	-1.94	-1.94	---	PASS
			30~1000	-1.94	-67.42	≤-21.94	PASS
			1000~26500	-1.94	-54.6	≤-21.94	PASS
		2437	Reference	-2.48	-2.48	---	PASS
			30~1000	-2.48	-67.79	≤-22.48	PASS
			1000~26500	-2.48	-55.17	≤-22.48	PASS
		2462	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-67.54	≤-21.88	PASS
			1000~26500	-1.88	-54.87	≤-21.88	PASS
11N40SISO	Ant1	2422	Reference	-5.63	-5.63	---	PASS
			30~1000	-5.63	-68.02	≤-25.63	PASS
			1000~26500	-5.63	-54.86	≤-25.63	PASS
		2437	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-67.63	≤-25.47	PASS
			1000~26500	-5.47	-55.1	≤-25.47	PASS
		2452	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-67.99	≤-25.15	PASS
			1000~26500	-5.15	-55.16	≤-25.15	PASS

Test Graphs

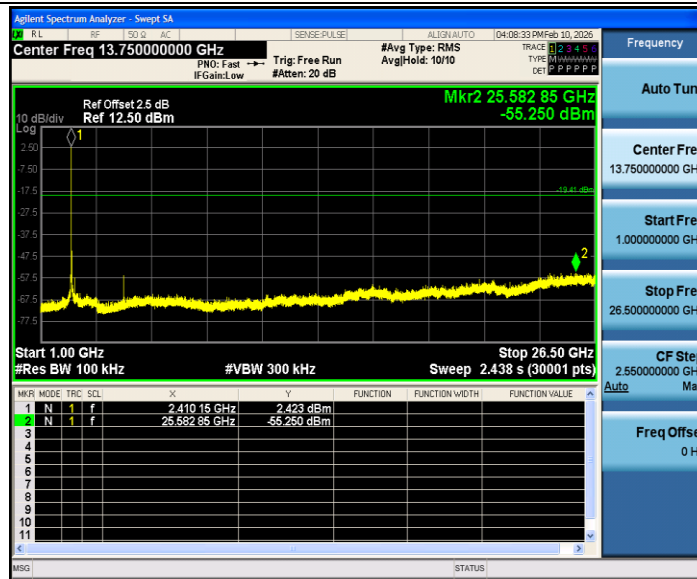
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



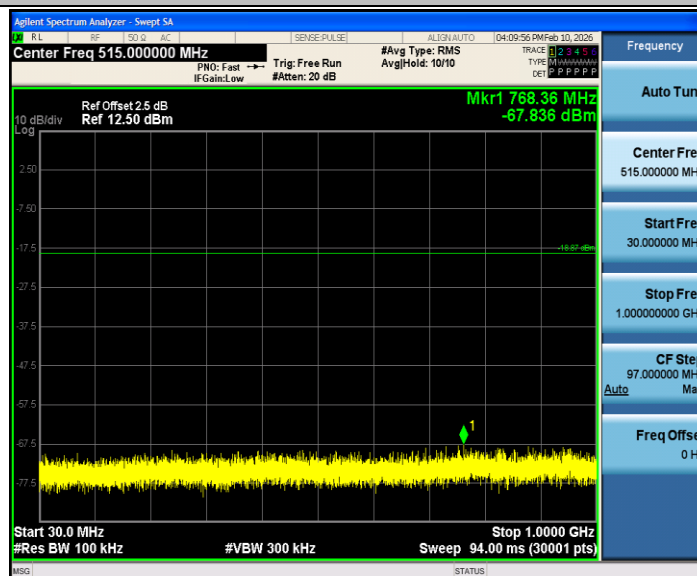
11B_Ant1_2412_1000~26500



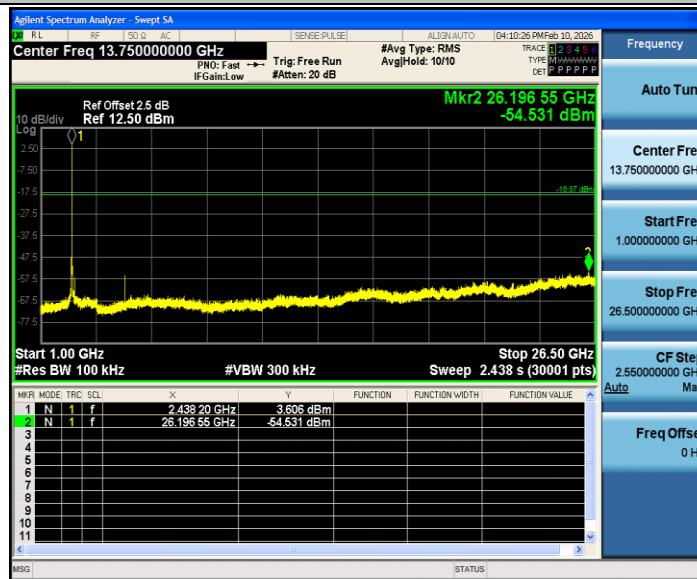
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



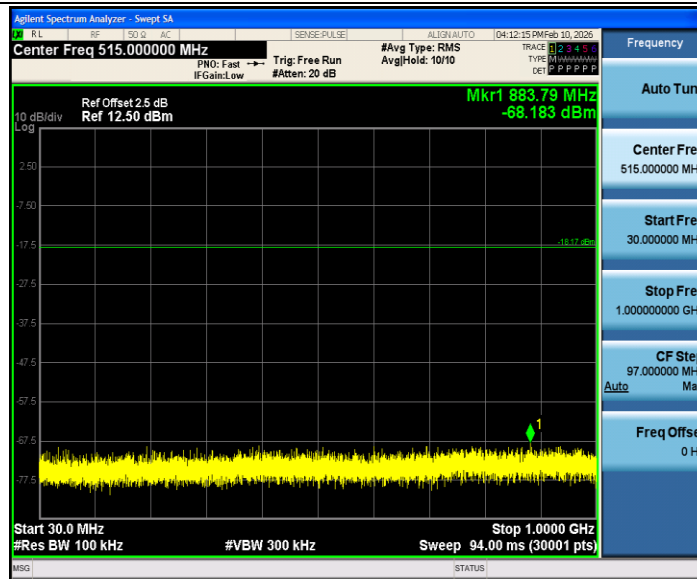
11B_Ant1_2437_1000~26500



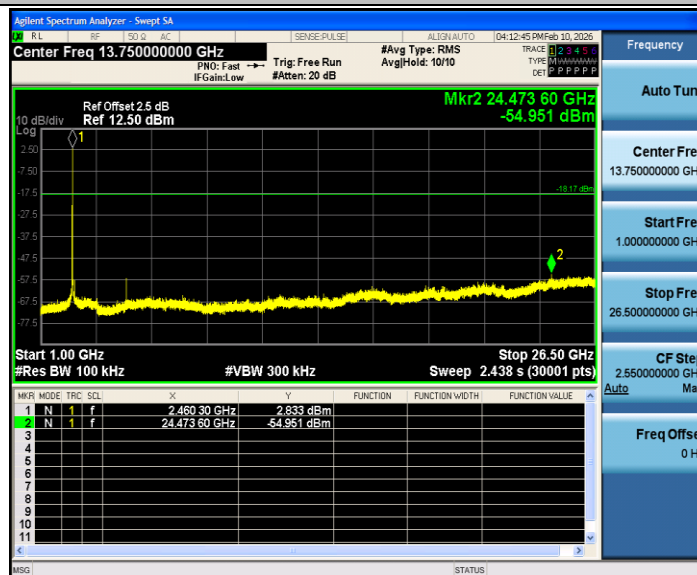
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



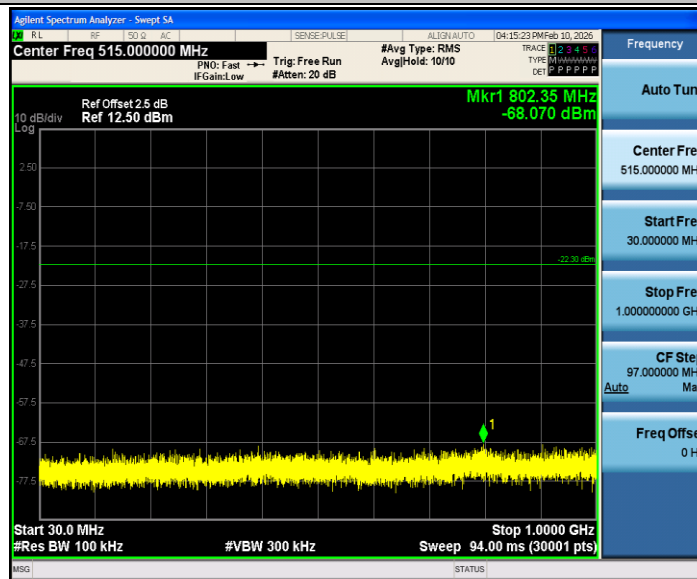
11B_Ant1_2462_1000~26500



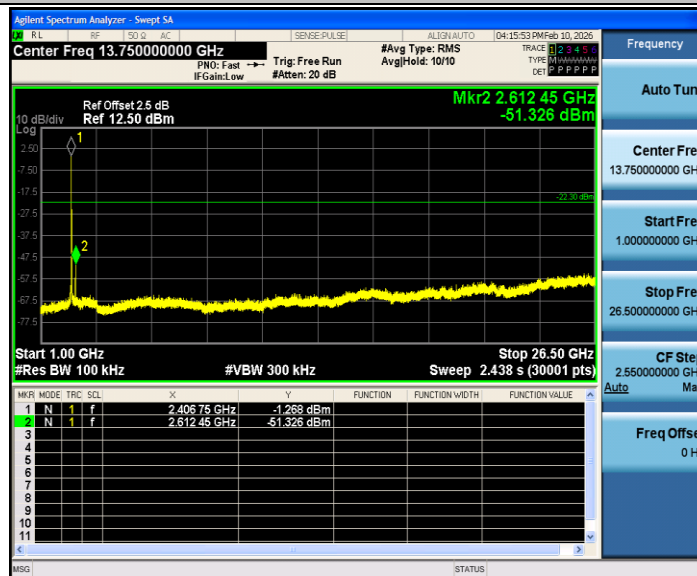
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



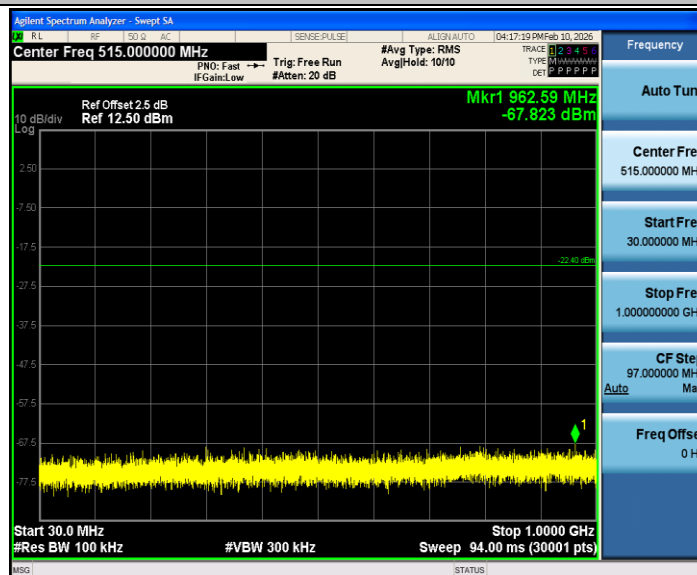
11G_Ant1_2412_1000~26500



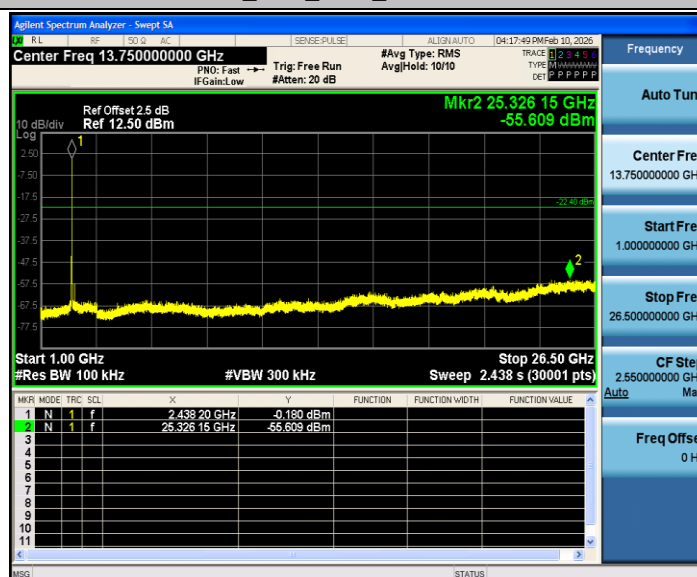
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



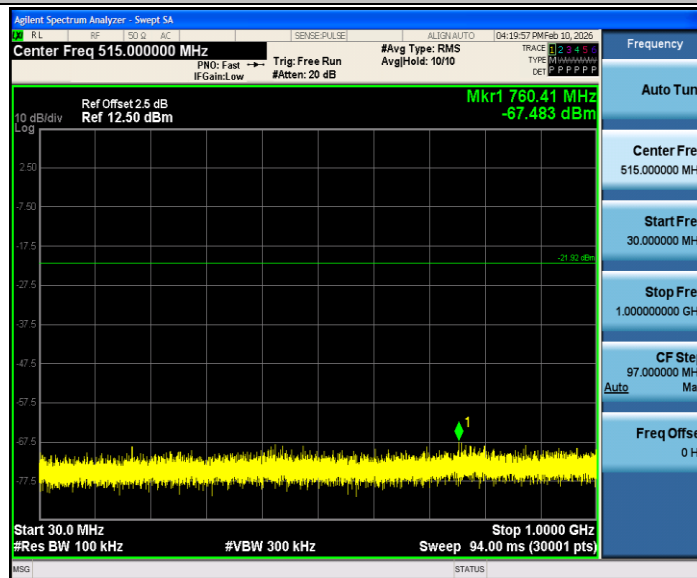
11G_Ant1_2437_1000~26500



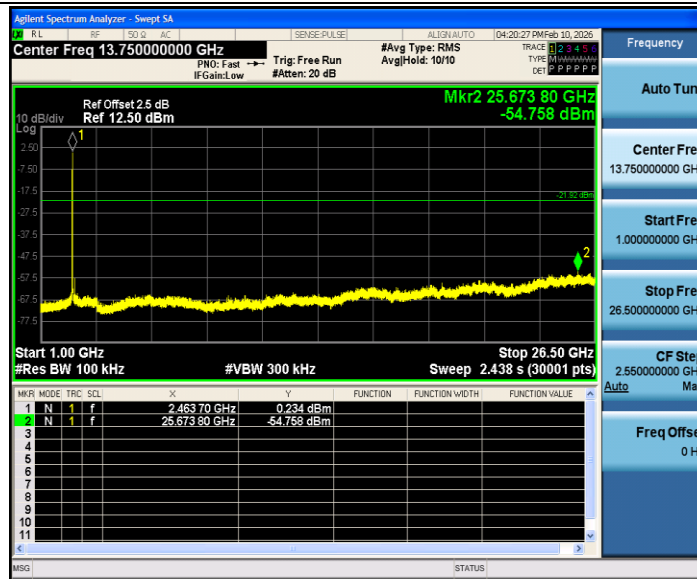
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

