

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BT48-MS02

Company : Shenzhen Fotorgear Techonolgy Co.,Ltd.

EUT : Wireless display adapter

Model Number : MS02

Report No. : CTA25123000502

Reviewed By : Eric Wang

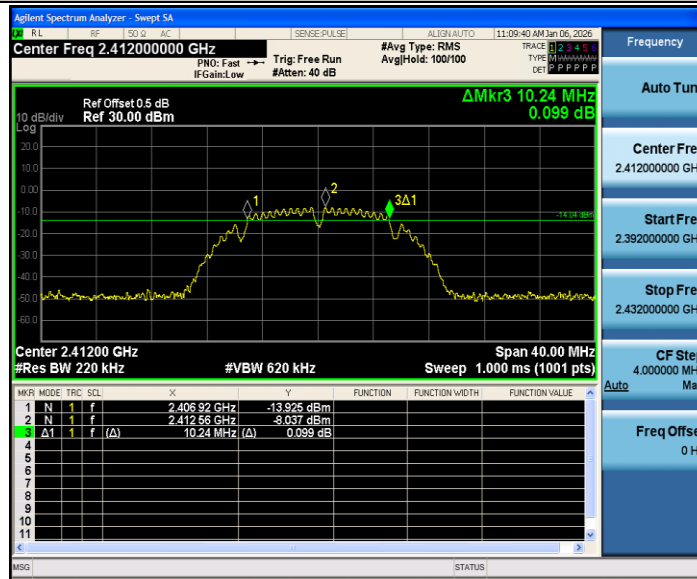
Appendix A: DTS Bandwidth

Test Result

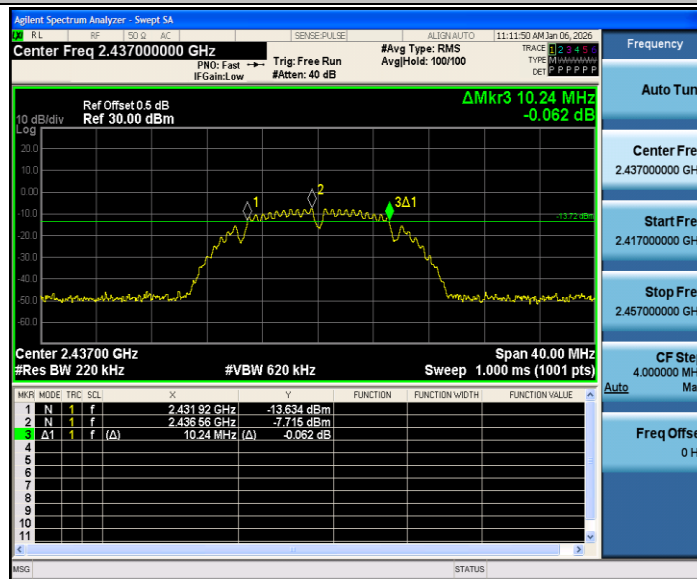
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.920	2404.080	2420.000	0.5	PASS
		2437	15.800	2429.080	2444.880	0.5	PASS
		2462	15.800	2454.040	2469.840	0.5	PASS
11N20SISO	Ant1	2412	16.360	2404.080	2420.440	0.5	PASS
		2437	16.480	2429.040	2445.520	0.5	PASS
		2462	16.560	2453.440	2470.000	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.760	2419.000	2454.760	0.5	PASS
		2452	35.600	2434.400	2470.000	0.5	PASS

Test Graphs

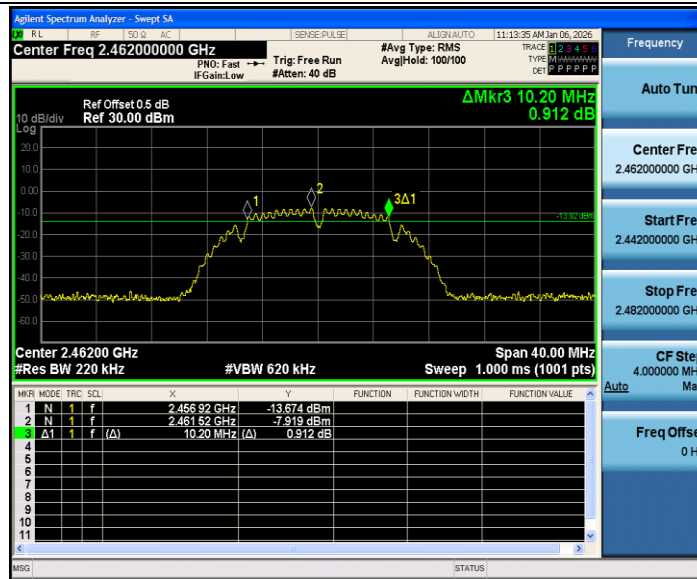
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



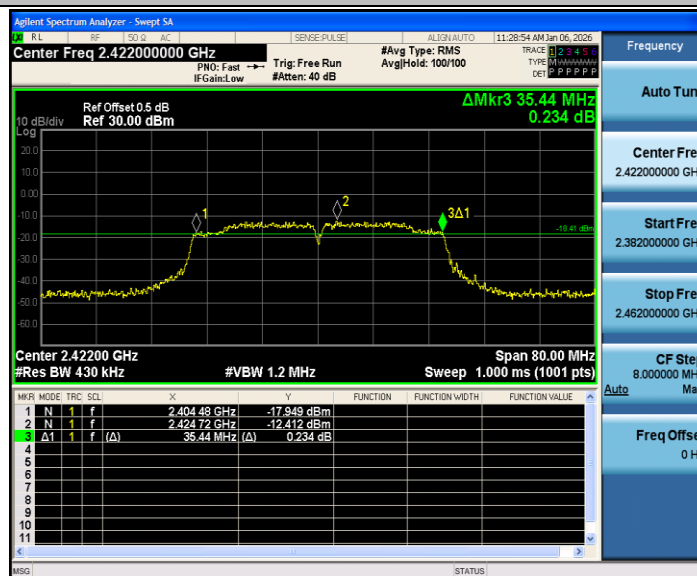
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



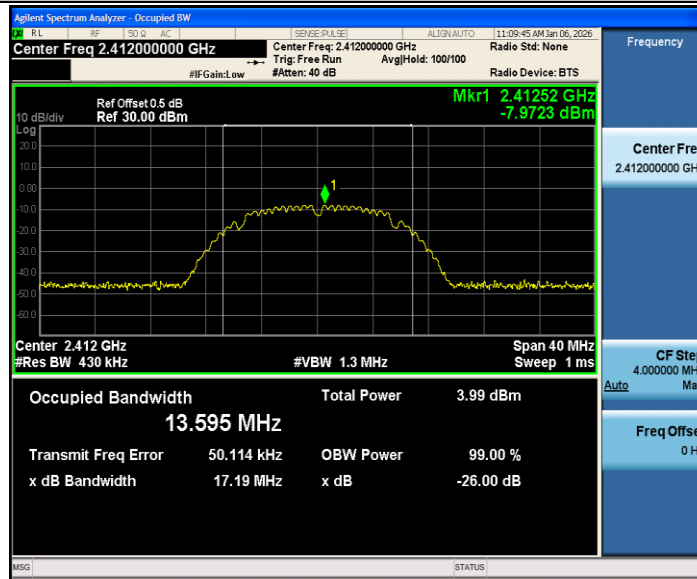
Appendix B: Occupied Channel Bandwidth

Test Result

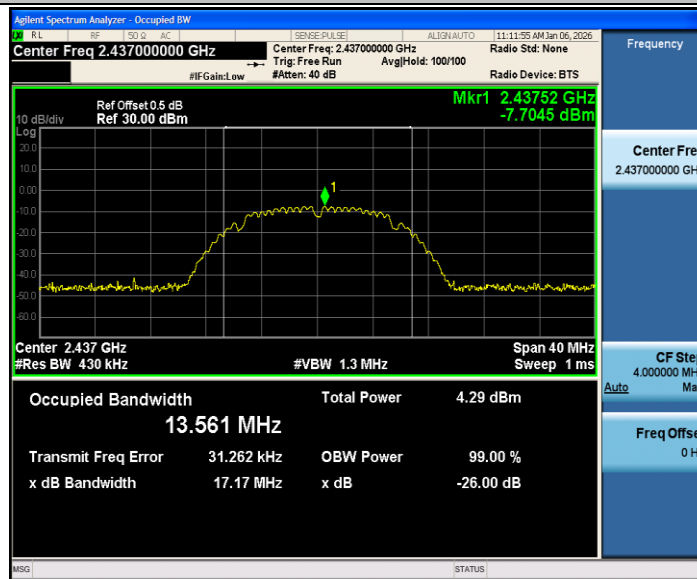
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.595	2405.2526	2418.8476	---	---
		2437	13.561	2430.2508	2443.8118	---	---
		2462	13.577	2455.2279	2468.8049	---	---
11G	Ant1	2412	16.854	2403.6461	2420.5001	---	---
		2437	16.808	2428.6970	2445.5050	---	---
		2462	16.933	2453.5582	2470.4912	---	---
11N20SISO	Ant1	2412	17.954	2403.0862	2421.0402	---	---
		2437	17.912	2428.0584	2445.9704	---	---
		2462	17.997	2453.0362	2471.0332	---	---
11N40SISO	Ant1	2422	36.134	2404.0473	2440.1813	---	---
		2437	36.193	2419.0119	2455.2049	---	---
		2452	36.131	2433.9860	2470.1170	---	---

Test Graphs

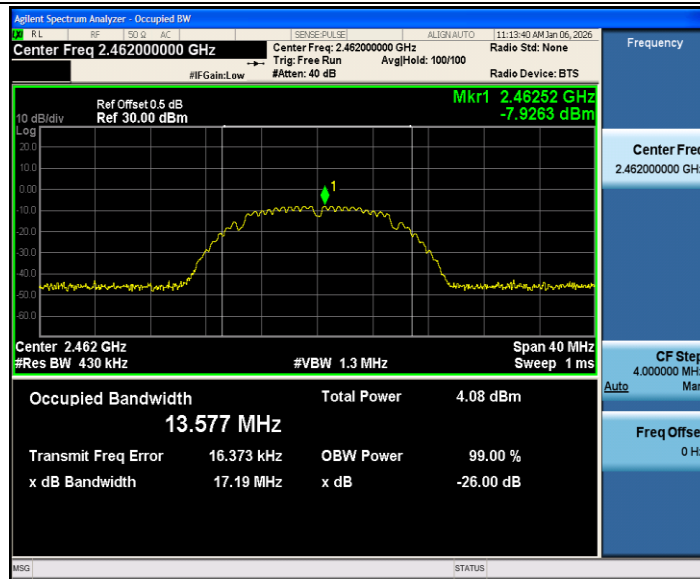
11B_Ant1_2412



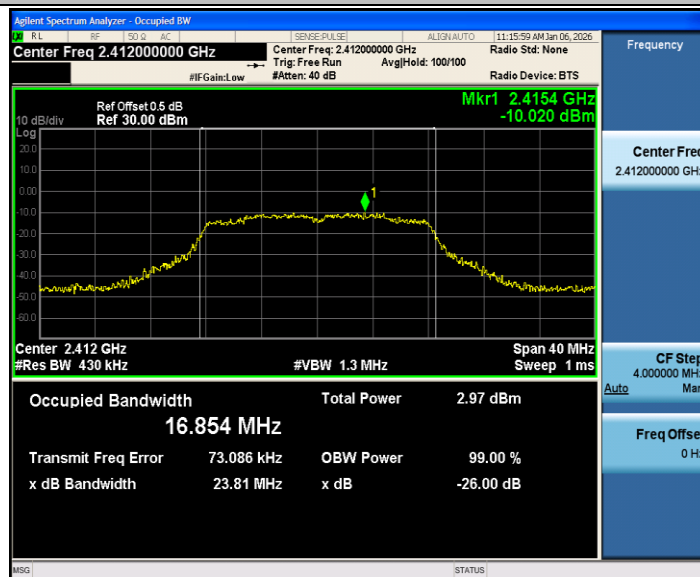
11B_Ant1_2437



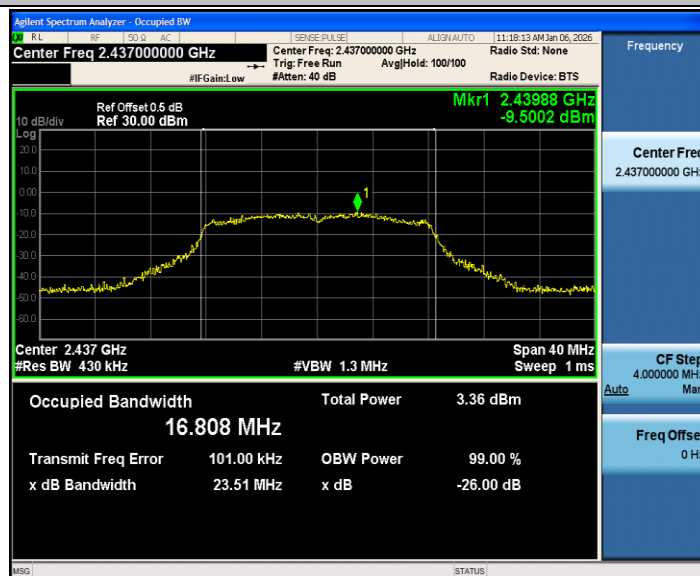
11B_Ant1_2462



11G_Ant1_2412



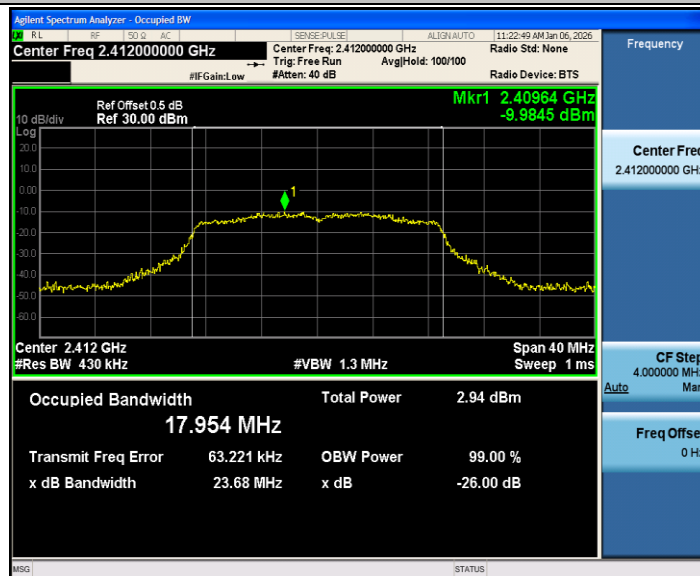
11G_Ant1_2437



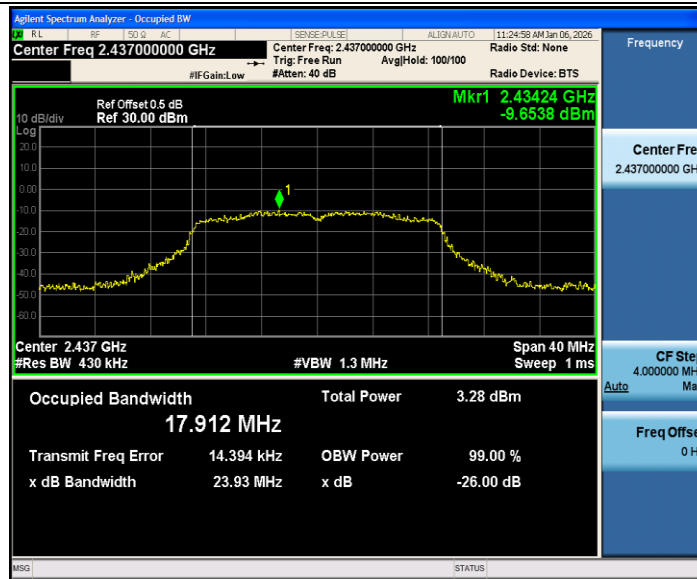
11G_Ant1_2462



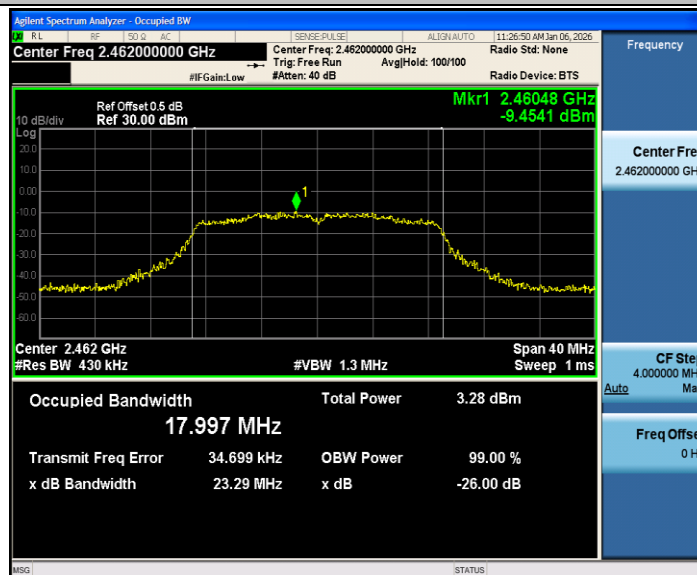
11N20SISO_Ant1_2412



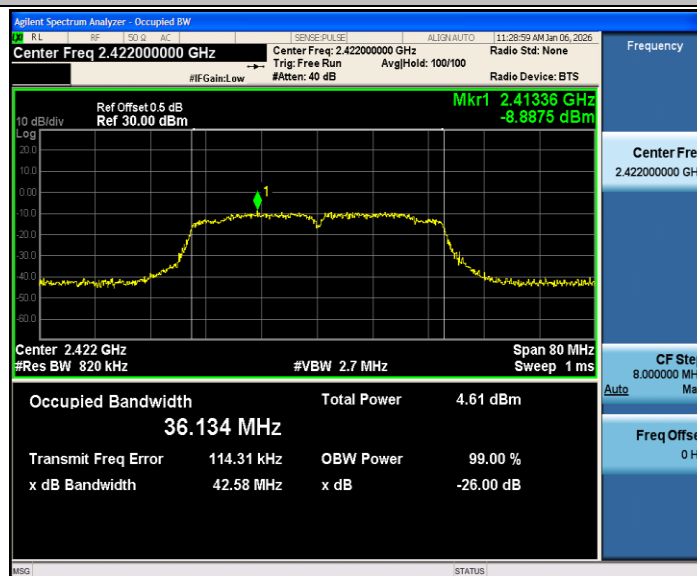
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	3.67	≤30.00	PASS
		2437	3.98	≤30.00	PASS
		2462	3.75	≤30.00	PASS
11G	Ant1	2412	3.97	≤30.00	PASS
		2437	4.25	≤30.00	PASS
		2462	4.17	≤30.00	PASS
11N20SISO	Ant1	2412	3.71	≤30.00	PASS
		2437	4.10	≤30.00	PASS
		2462	4.03	≤30.00	PASS
11N40SISO	Ant1	2422	4.70	≤30.00	PASS
		2437	4.96	≤30.00	PASS
		2452	4.86	≤30.00	PASS

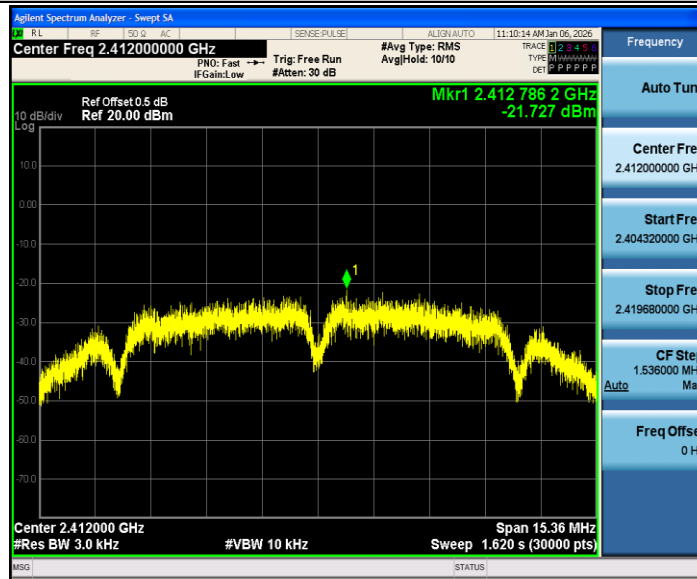
Appendix D: Maximum power spectral density

Test Result

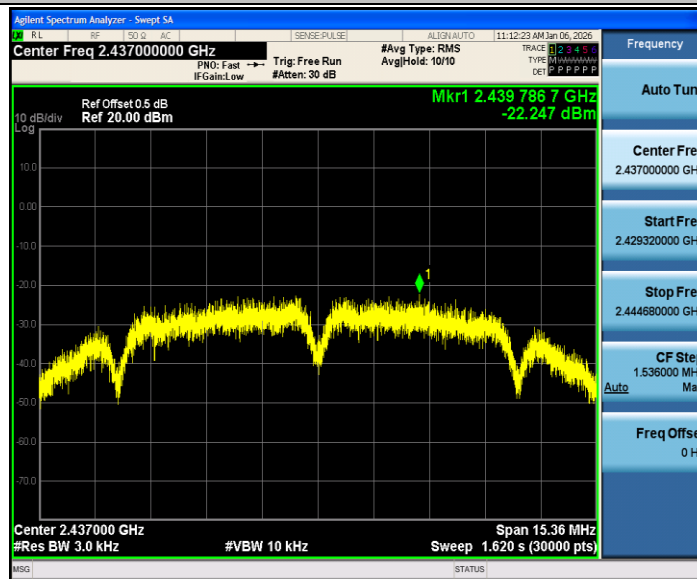
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-21.73	≤8.00	PASS
		2437	-22.25	≤8.00	PASS
		2462	-21.47	≤8.00	PASS
11G	Ant1	2412	-27.59	≤8.00	PASS
		2437	-27.82	≤8.00	PASS
		2462	-27.94	≤8.00	PASS
11N20SISO	Ant1	2412	-27.70	≤8.00	PASS
		2437	-27.44	≤8.00	PASS
		2462	-26.58	≤8.00	PASS
11N40SISO	Ant1	2422	-30.33	≤8.00	PASS
		2437	-30.40	≤8.00	PASS
		2452	-30.59	≤8.00	PASS

Test Graphs

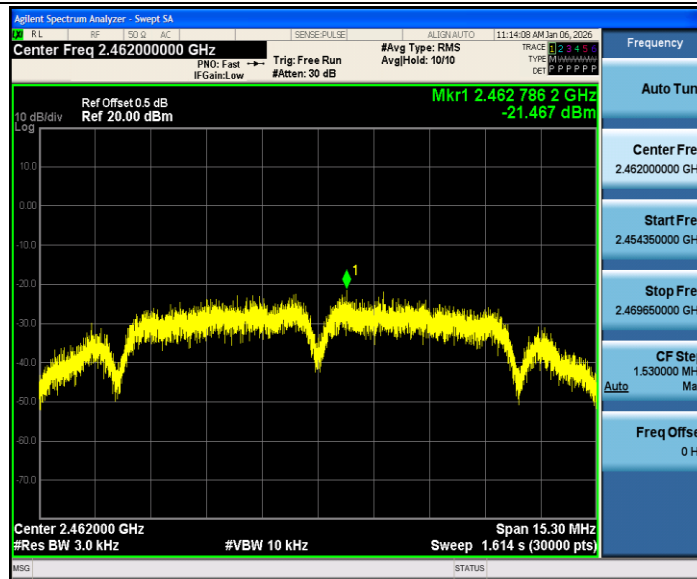
11B_Ant1_2412



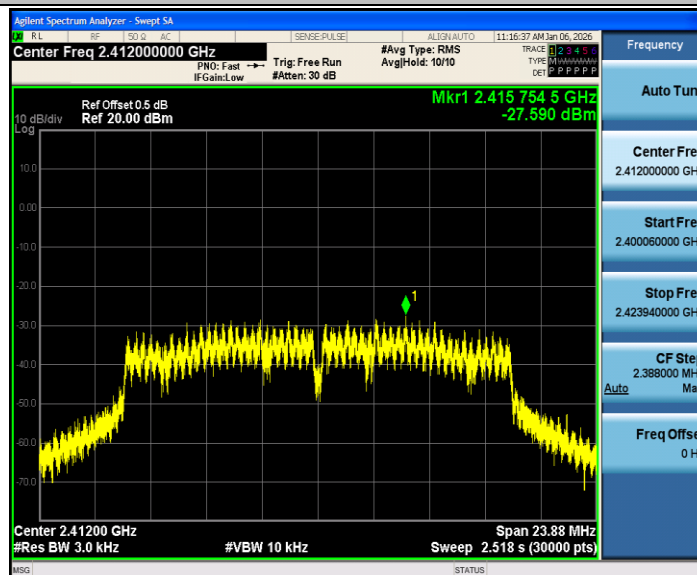
11B_Ant1_2437



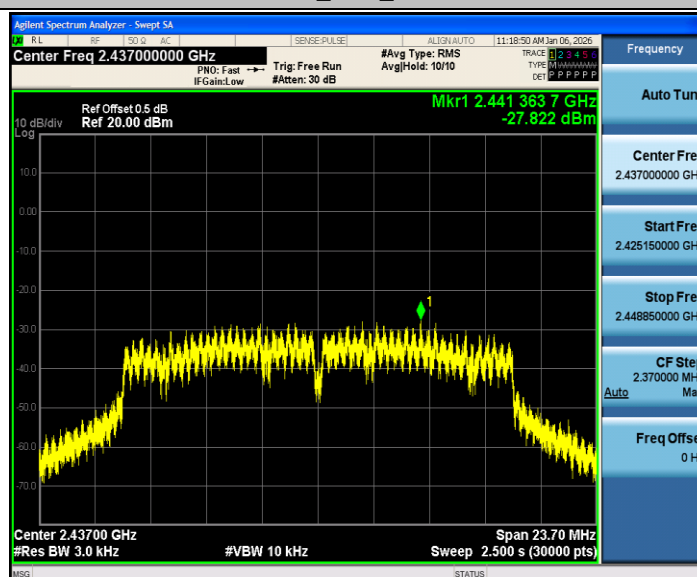
11B_Ant1_2462



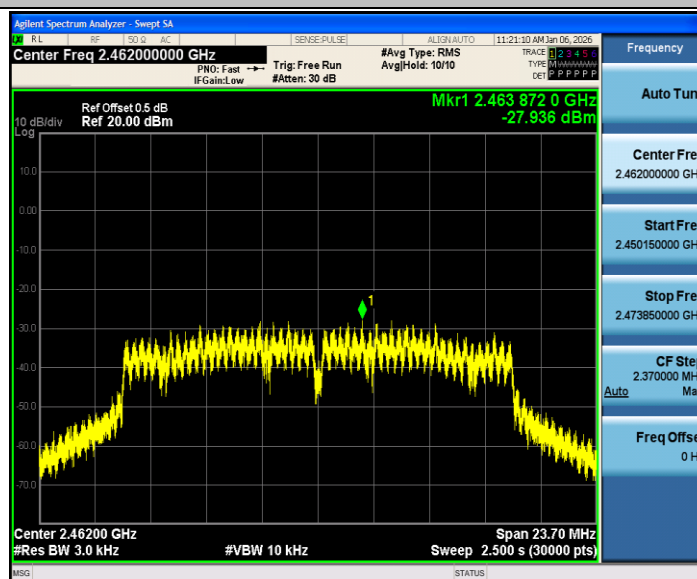
11G_Ant1_2412



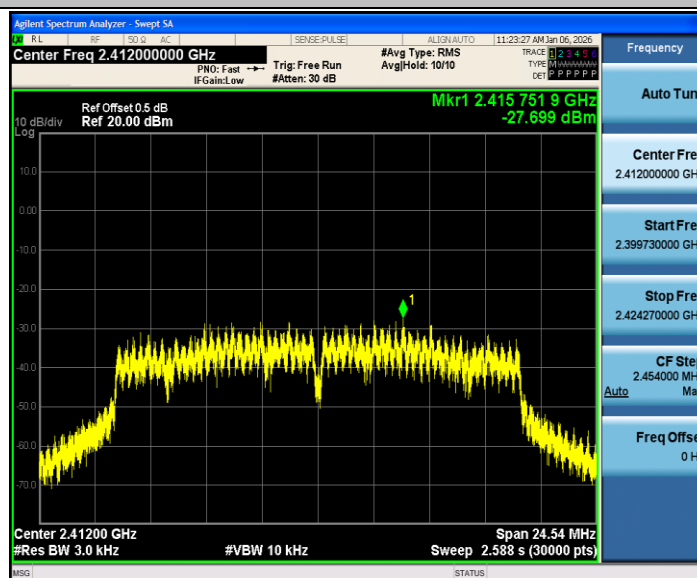
11G_Ant1_2437



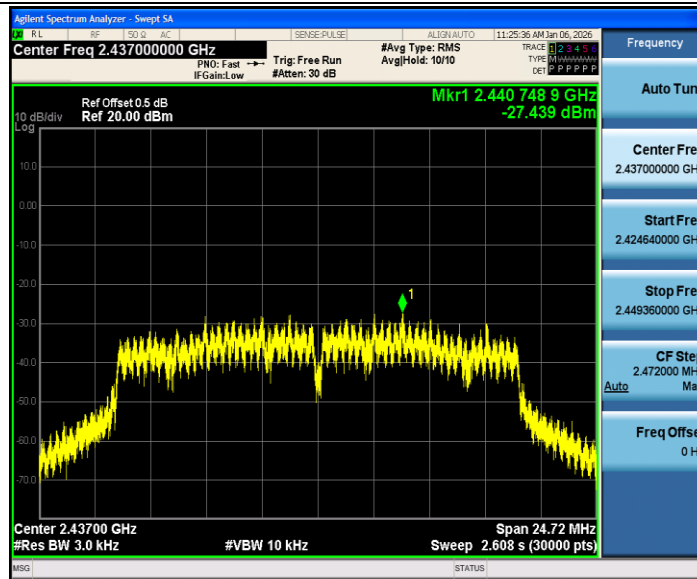
11G_Ant1_2462



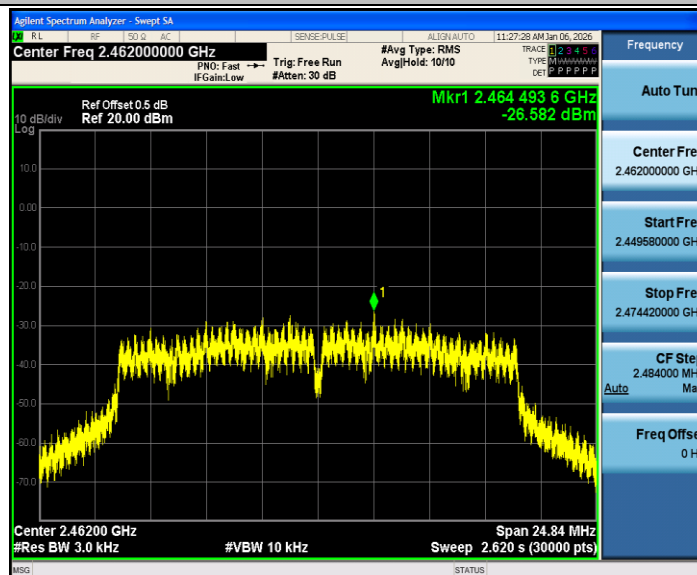
11N20SISO_Ant1_2412



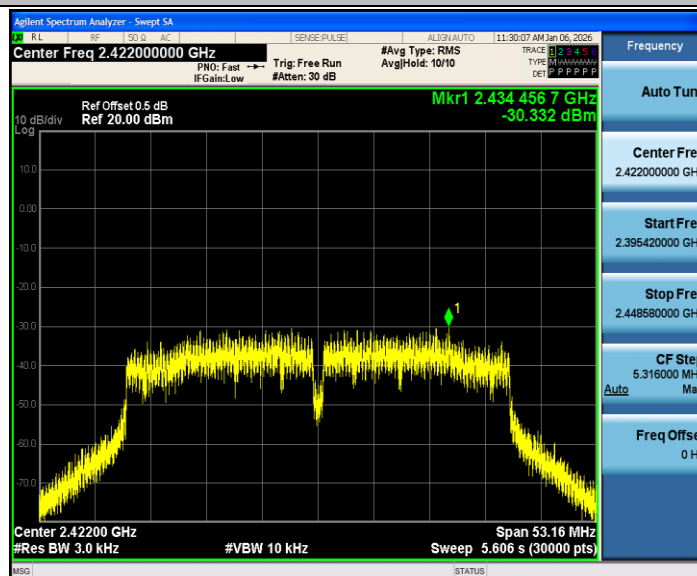
11N20SISO_Ant1_2437



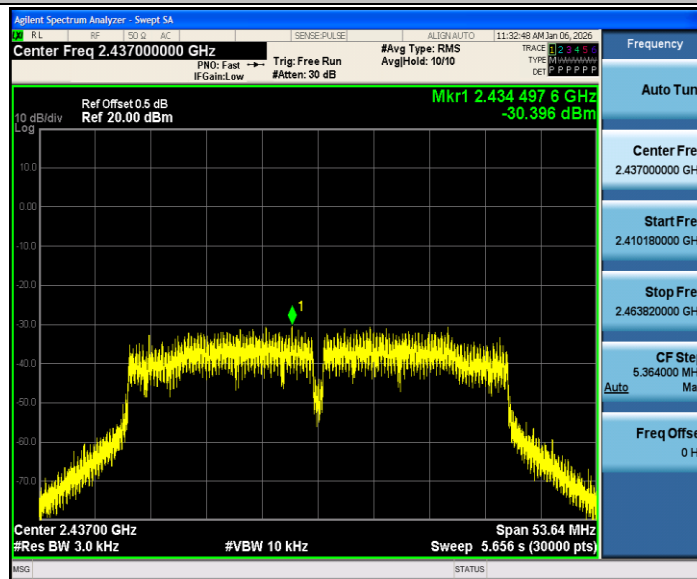
11N20SISO_Ant1_2462



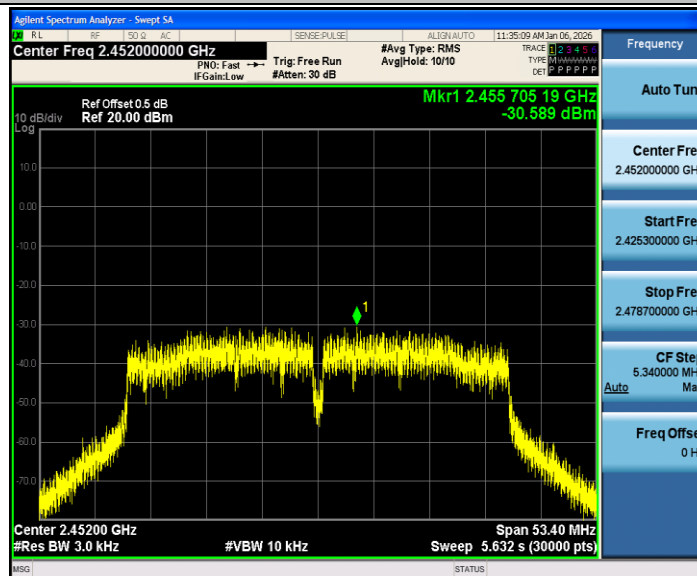
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



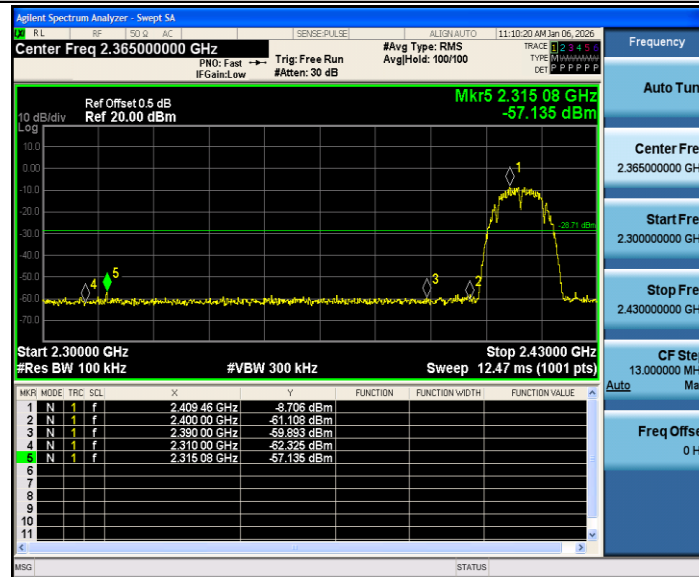
Appendix E: Band edge measurements

Test Result

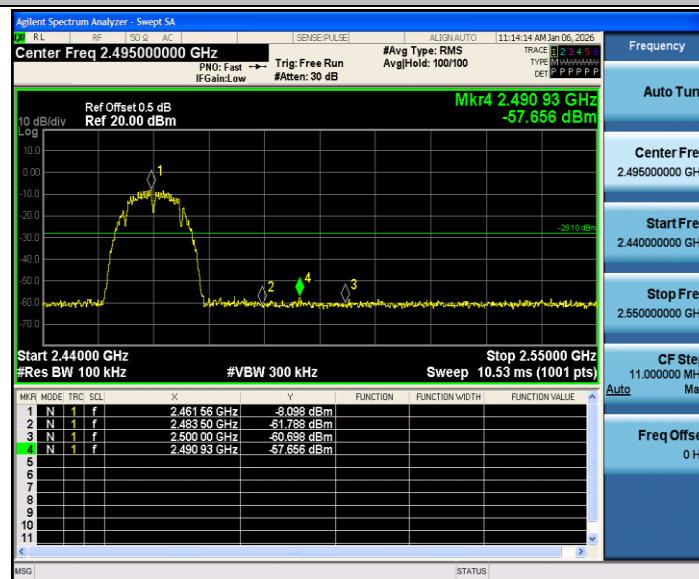
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.71	-57.14	≤ -28.71	PASS
		High	2462	-8.10	-57.66	≤ -28.1	PASS
11G	Ant1	Low	2412	-12.49	-44.57	≤ -32.49	PASS
		High	2462	-12.32	-57.68	≤ -32.32	PASS
11N20SISO	Ant1	Low	2412	-12.73	-44.06	≤ -32.73	PASS
		High	2462	-12.61	-58.34	≤ -32.61	PASS
11N40SISO	Ant1	Low	2422	-15.22	-43	≤ -35.22	PASS
		High	2452	-15.08	-58.52	≤ -35.08	PASS

Test Graphs

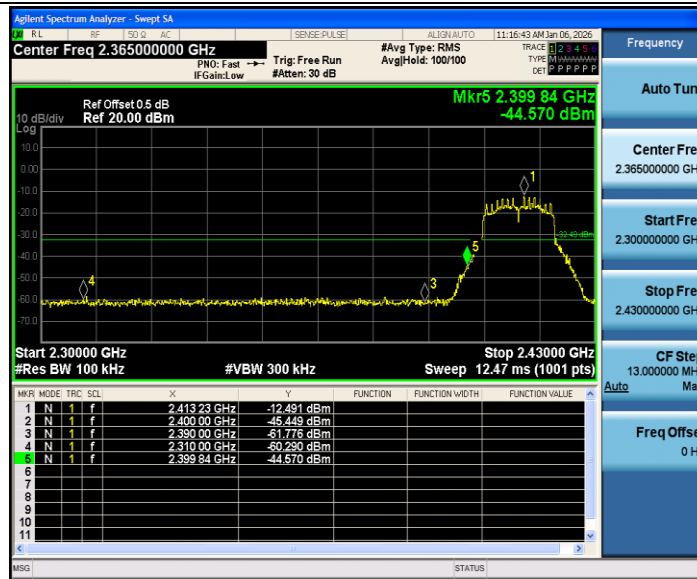
11B_Ant1_Low_2412



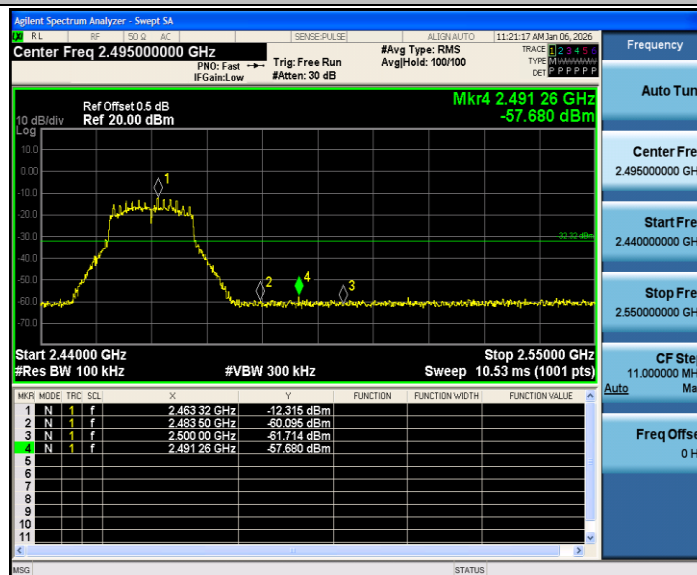
11B_Ant1_High_2462



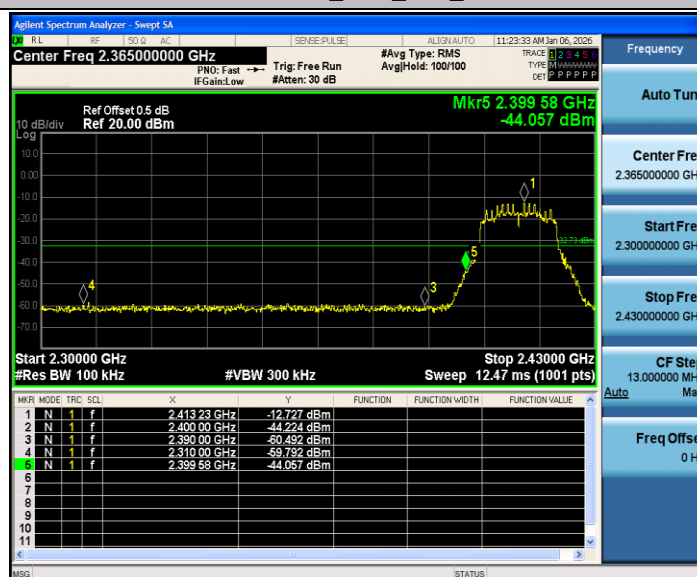
11G_Ant1_Low_2412



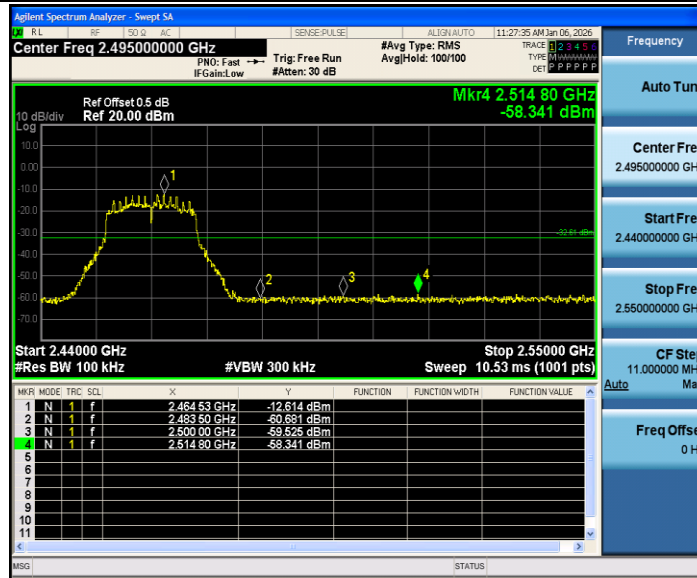
11G_Ant1_High_2462



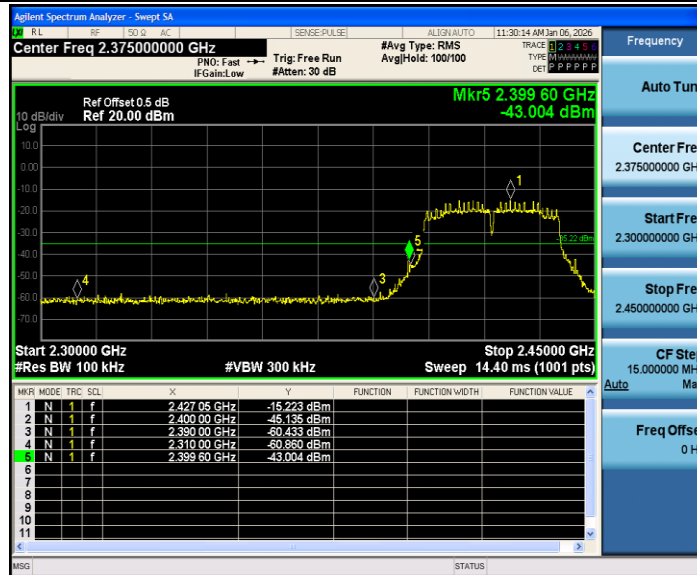
11N20SISO_Ant1_Low_2412



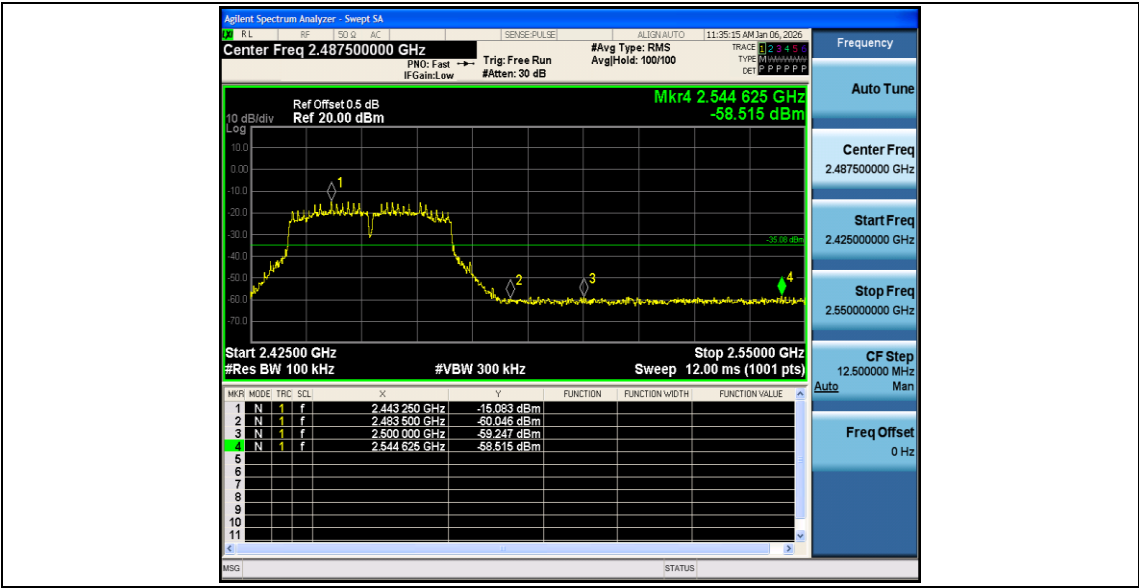
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



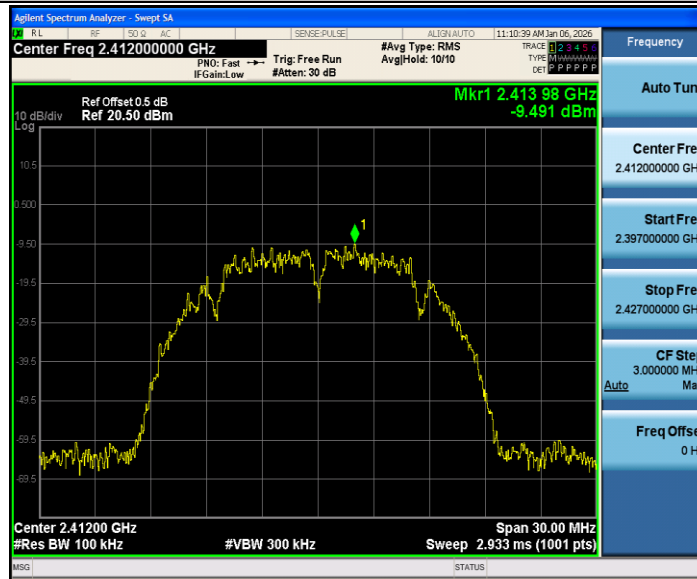
Appendix F: Conducted Spurious Emission

Test Result

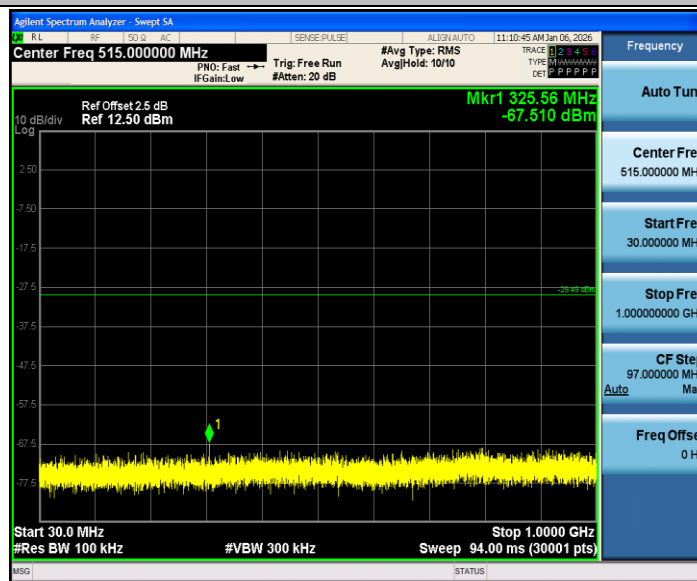
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-9.49	-9.49	---	PASS
			30~1000	-9.49	-67.51	≤-29.49	PASS
			1000~26500	-9.49	-54.94	≤-29.49	PASS
		2437	Reference	-8.54	-8.54	---	PASS
			30~1000	-8.54	-68.28	≤-28.54	PASS
			1000~26500	-8.54	-55.13	≤-28.54	PASS
		2462	Reference	-9.97	-9.97	---	PASS
			30~1000	-9.97	-67.92	≤-29.97	PASS
			1000~26500	-9.97	-54.8	≤-29.97	PASS
11G	Ant1	2412	Reference	-13.16	-13.16	---	PASS
			30~1000	-13.16	-58.4	≤-33.16	PASS
			1000~26500	-13.16	-55.18	≤-33.16	PASS
		2437	Reference	-12.78	-12.78	---	PASS
			30~1000	-12.78	-67.76	≤-32.78	PASS
			1000~26500	-12.78	-54.98	≤-32.78	PASS
		2462	Reference	-13.08	-13.08	---	PASS
			30~1000	-13.08	-68.33	≤-33.08	PASS
			1000~26500	-13.08	-55.12	≤-33.08	PASS
11N20SISO	Ant1	2412	Reference	-13.21	-13.21	---	PASS
			30~1000	-13.21	-68.16	≤-33.21	PASS
			1000~26500	-13.21	-55.31	≤-33.21	PASS
		2437	Reference	-12.46	-12.46	---	PASS
			30~1000	-12.46	-67.98	≤-32.46	PASS
			1000~26500	-12.46	-55.36	≤-32.46	PASS
		2462	Reference	-13.80	-13.80	---	PASS
			30~1000	-13.80	-67.99	≤-33.8	PASS
			1000~26500	-13.80	-54.93	≤-33.8	PASS
11N40SISO	Ant1	2422	Reference	-16.08	-16.08	---	PASS
			30~1000	-16.08	-67.99	≤-36.08	PASS
			1000~26500	-16.08	-55.34	≤-36.08	PASS
		2437	Reference	-16.33	-16.33	---	PASS
			30~1000	-16.33	-68.48	≤-36.33	PASS
			1000~26500	-16.33	-55.75	≤-36.33	PASS
		2452	Reference	-15.07	-15.07	---	PASS
			30~1000	-15.07	-67.62	≤-35.07	PASS
			1000~26500	-15.07	-54.32	≤-35.07	PASS

Test Graphs

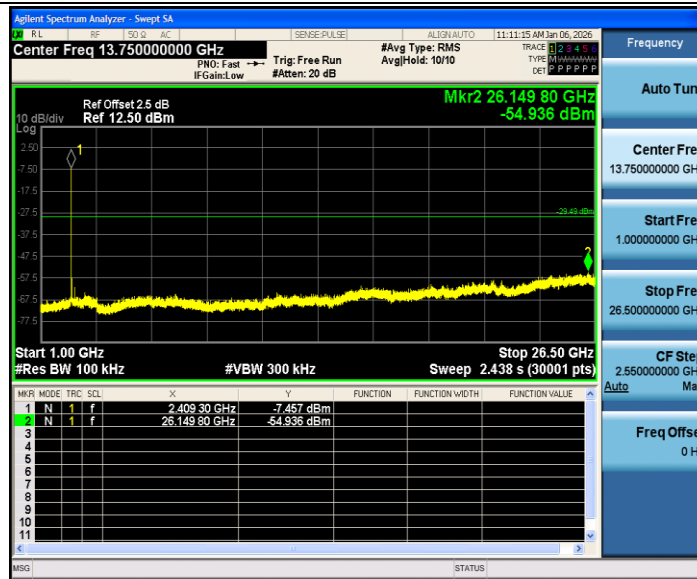
11B_Ant1_2412_0~Reference



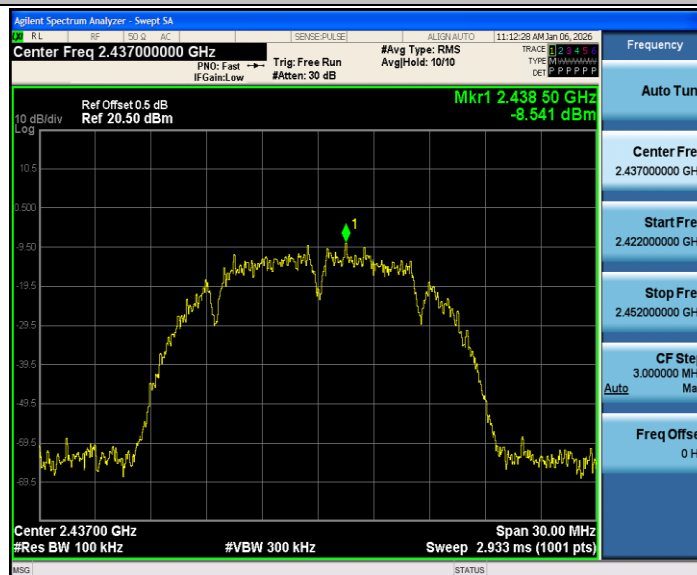
11B_Ant1_2412_30~1000



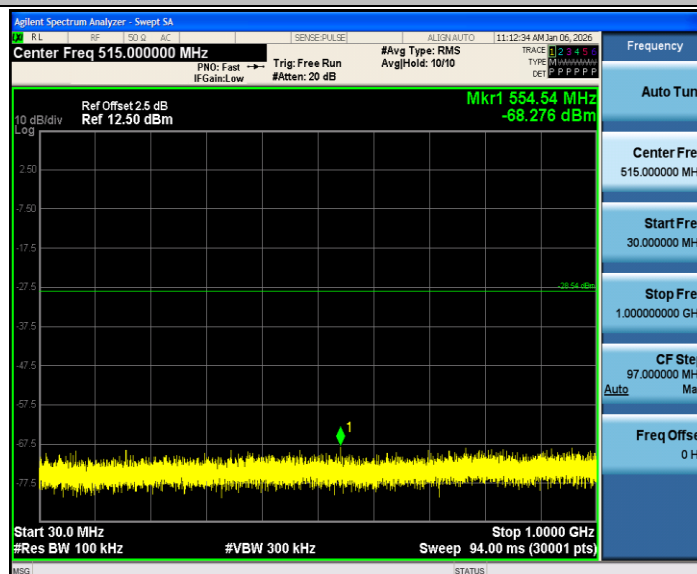
11B_Ant1_2412_1000~26500



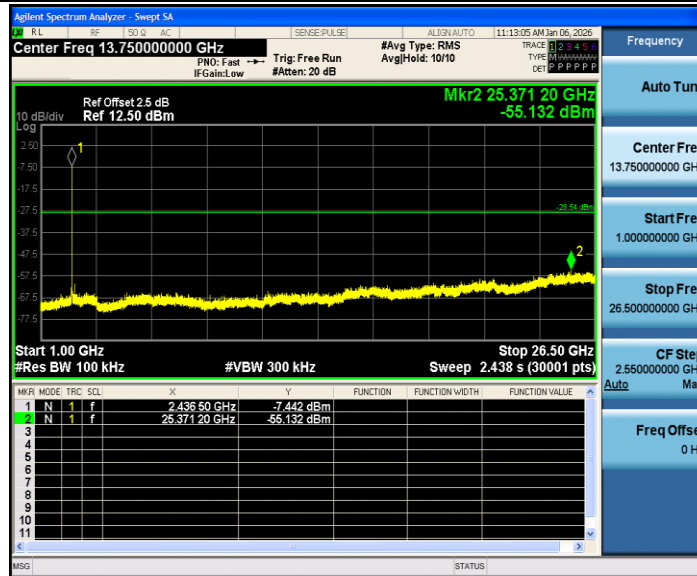
11B_Ant1_2437_0~Reference



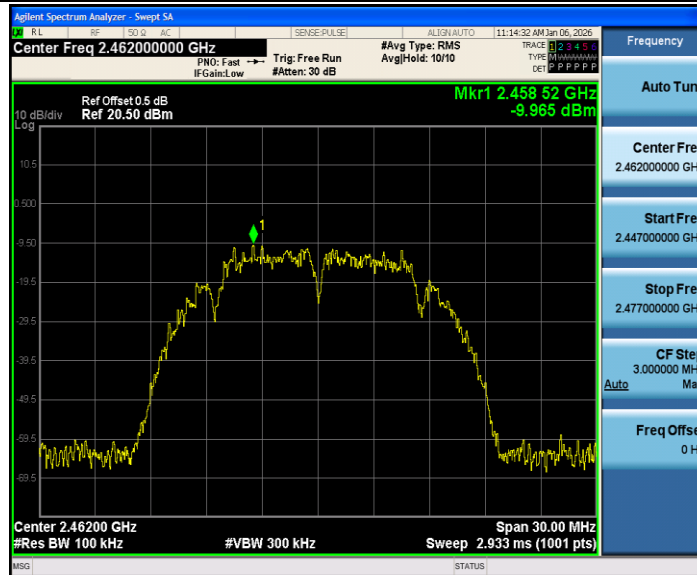
11B_Ant1_2437_30~1000



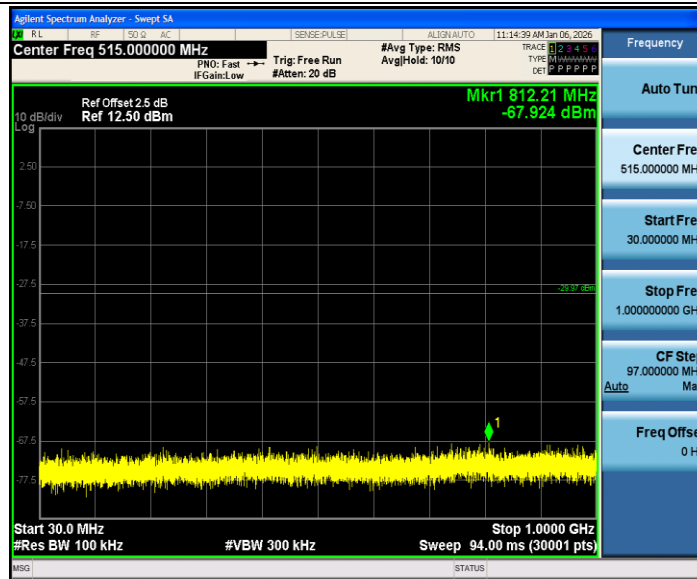
11B_Ant1_2437_1000~26500



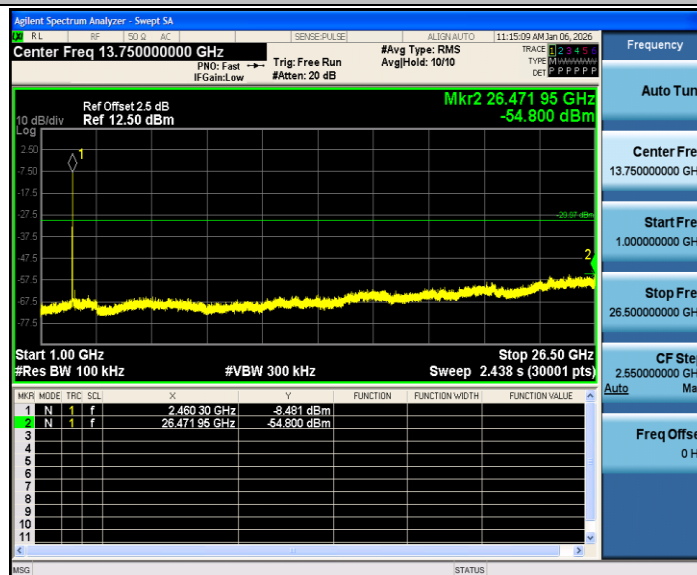
11B_Ant1_2462_0~Reference



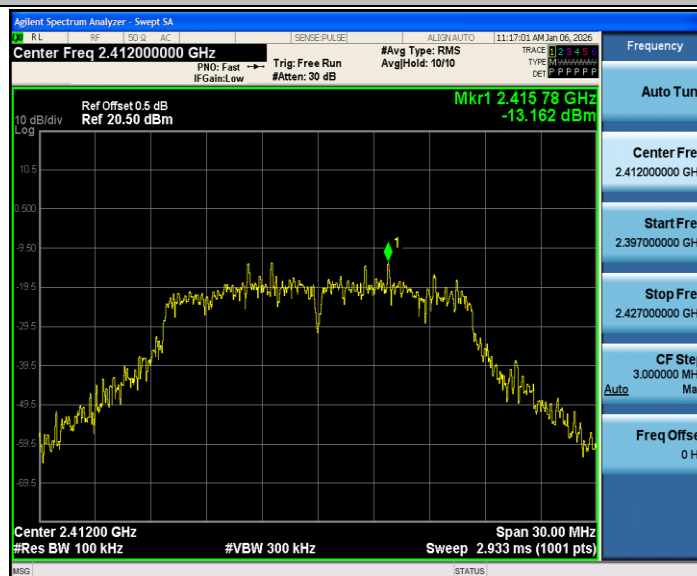
11B_Ant1_2462_30~1000



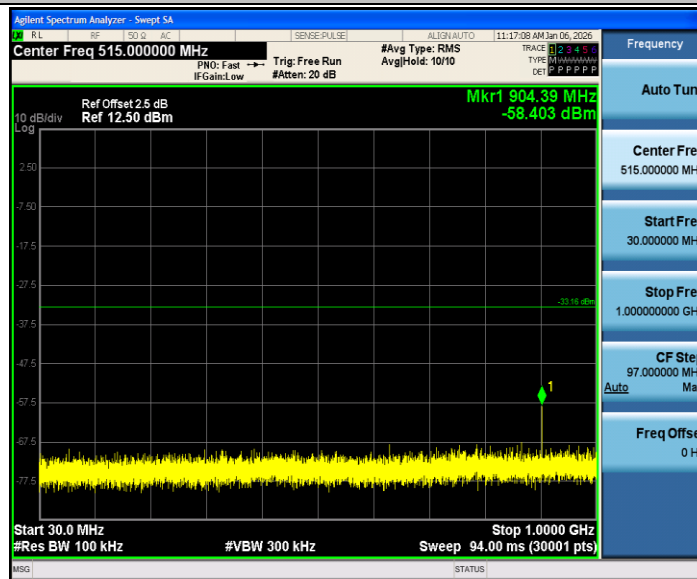
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



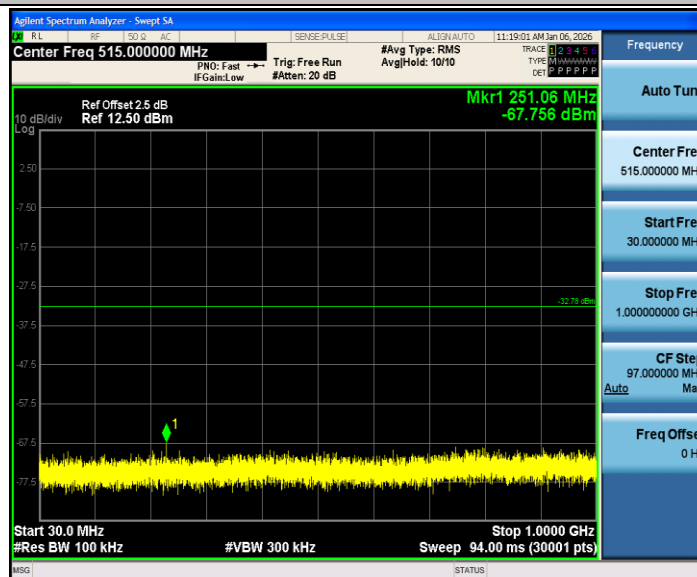
11G_Ant1_2412_1000~26500



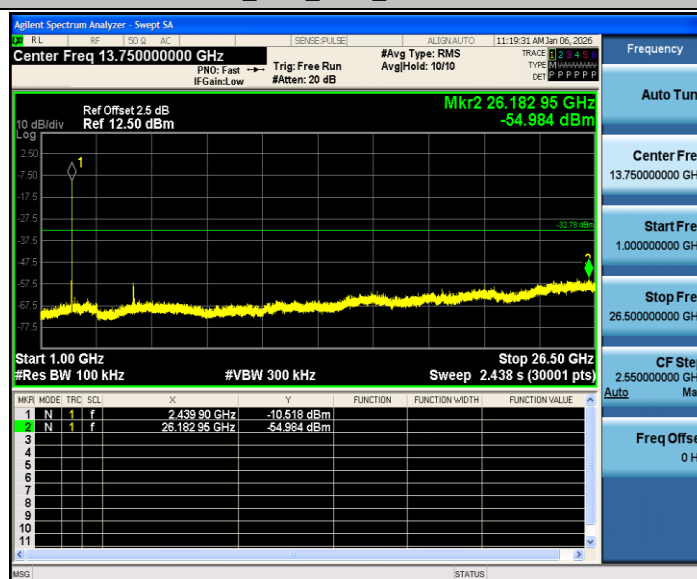
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



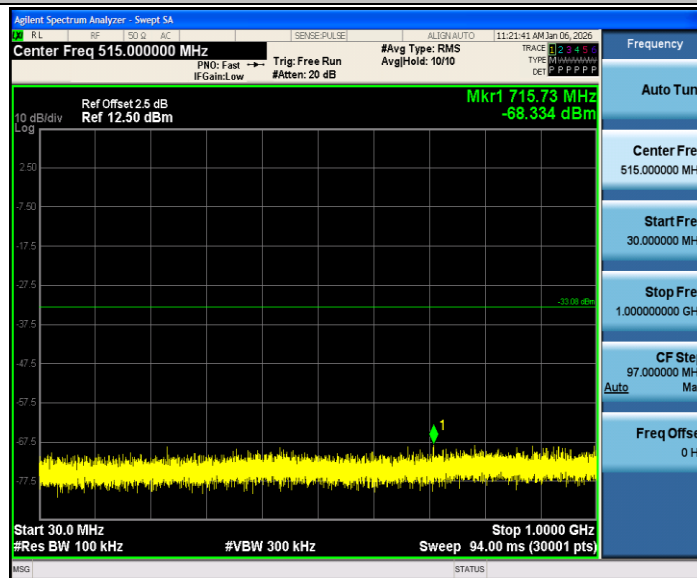
11G_Ant1_2437_1000~26500



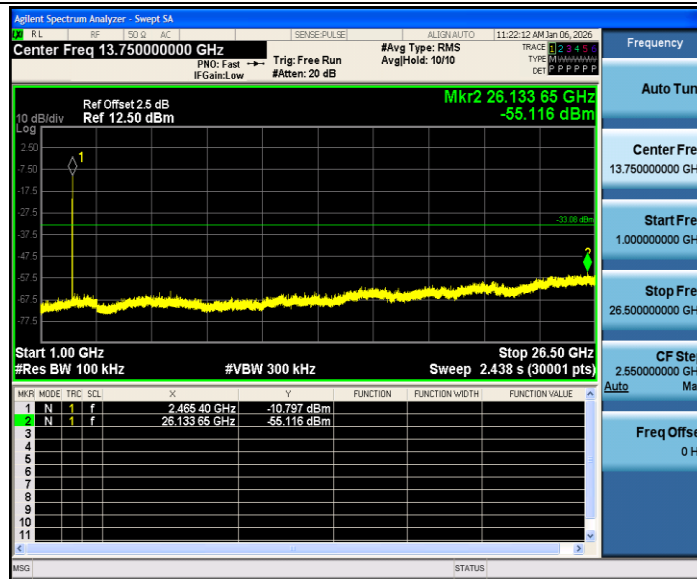
11G_Ant1_2462_0~Reference



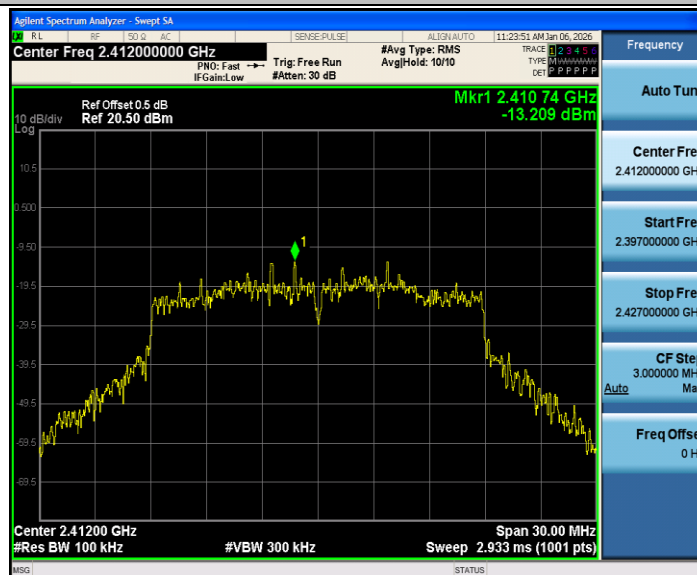
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

