

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BVLG-ZEN-C50R

Company : Zentron LLC

EUT : Thermal imaging device

Model Number : C50R

Report No. : CTA25121200602

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	15.840	2404.080	2419.920	0.5	PASS
		2437	15.920	2429.080	2445.000	0.5	PASS
		2462	15.960	2454.040	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.880	2403.560	2420.440	0.5	PASS
		2437	15.760	2429.280	2445.040	0.5	PASS
		2462	16.560	2453.480	2470.040	0.5	PASS

Test Graphs

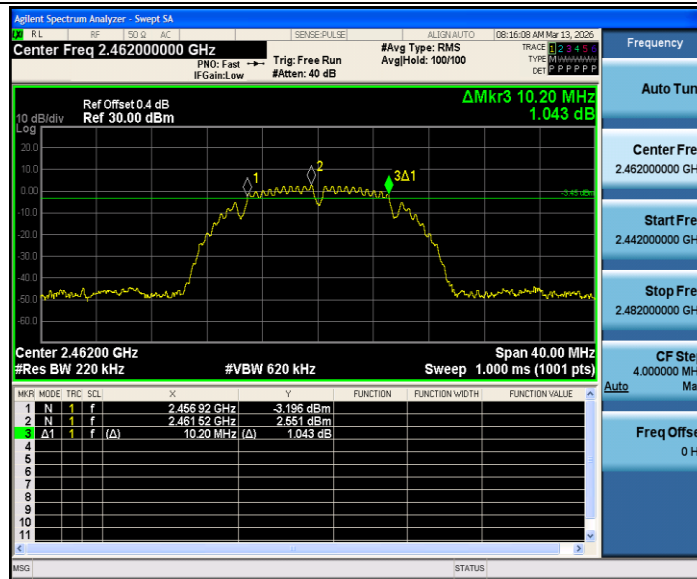
11B_Ant1_2412



11B_Ant1_2437



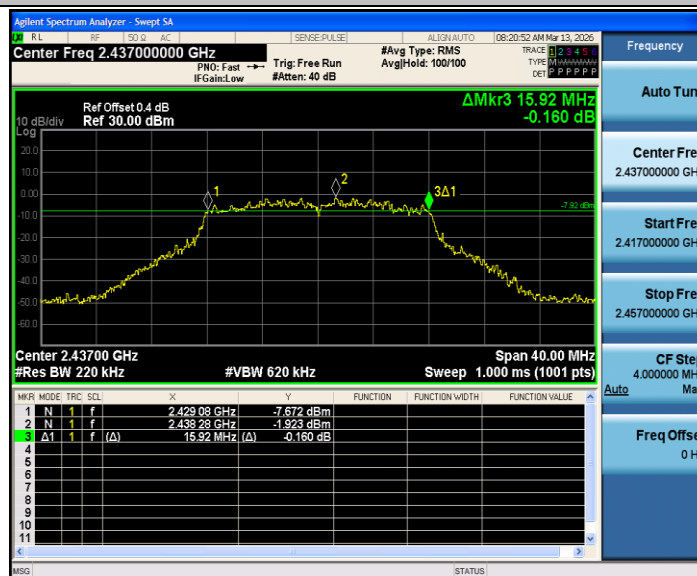
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



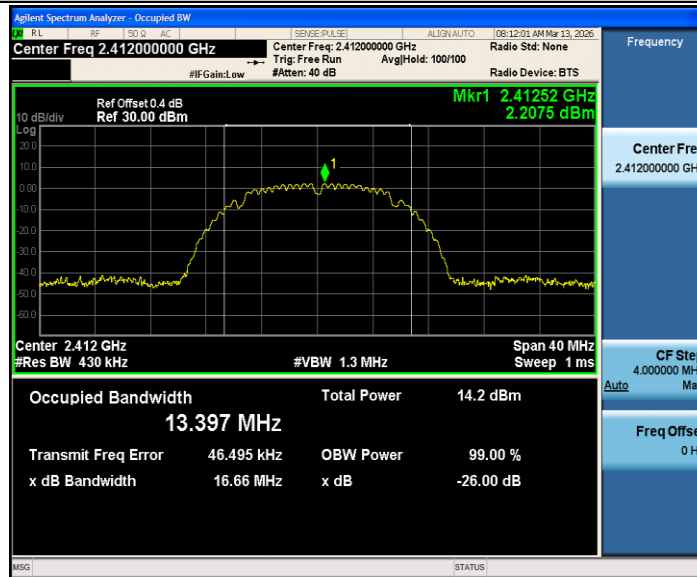
Appendix B: Occupied Channel Bandwidth

Test Result

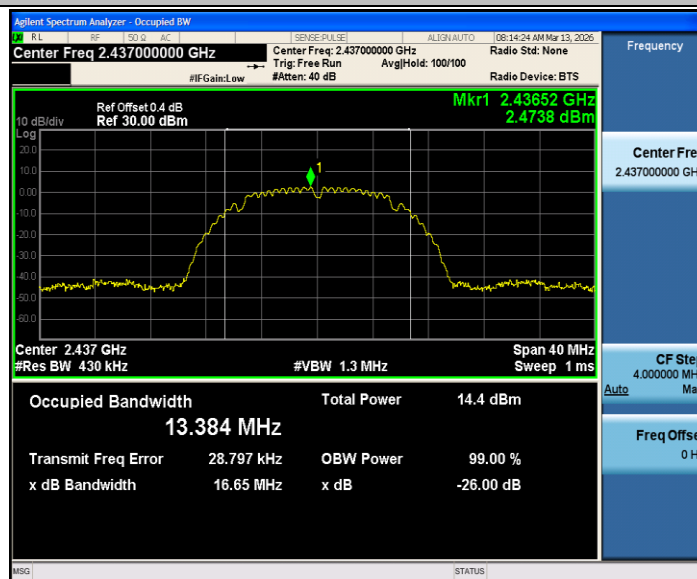
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.397	2405.3480	2418.7450	---	---
		2437	13.384	2430.3368	2443.7208	---	---
		2462	13.413	2455.3078	2468.7208	---	---
11G	Ant1	2412	16.933	2403.5852	2420.5182	---	---
		2437	16.812	2428.6332	2445.4452	---	---
		2462	16.812	2453.6257	2470.4377	---	---
11N20SISO	Ant1	2412	17.883	2403.0963	2420.9793	---	---
		2437	17.856	2428.0927	2445.9487	---	---
		2462	17.875	2453.0696	2470.9446	---	---

Test Graphs

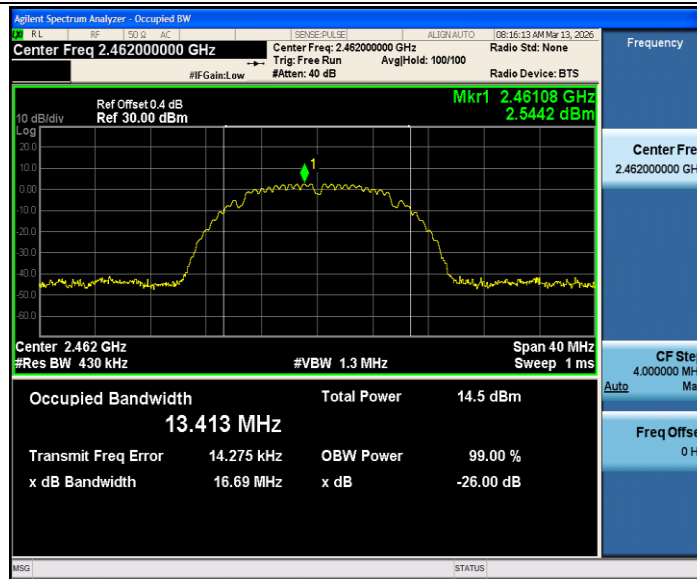
11B_Ant1_2412



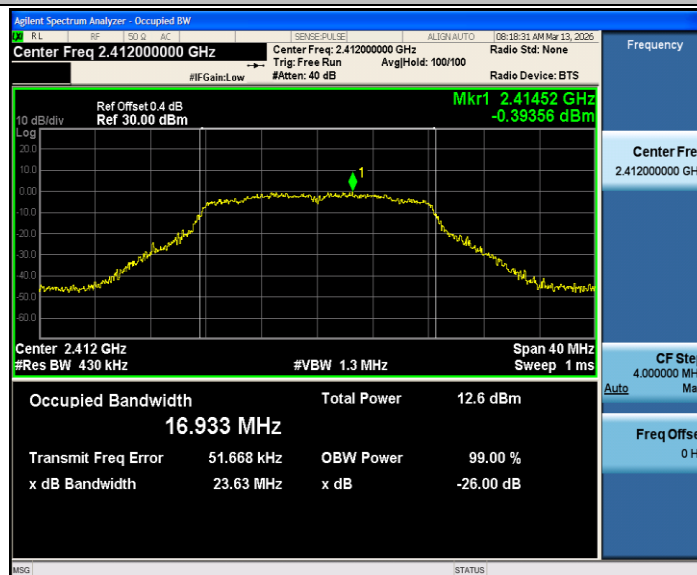
11B_Ant1_2437



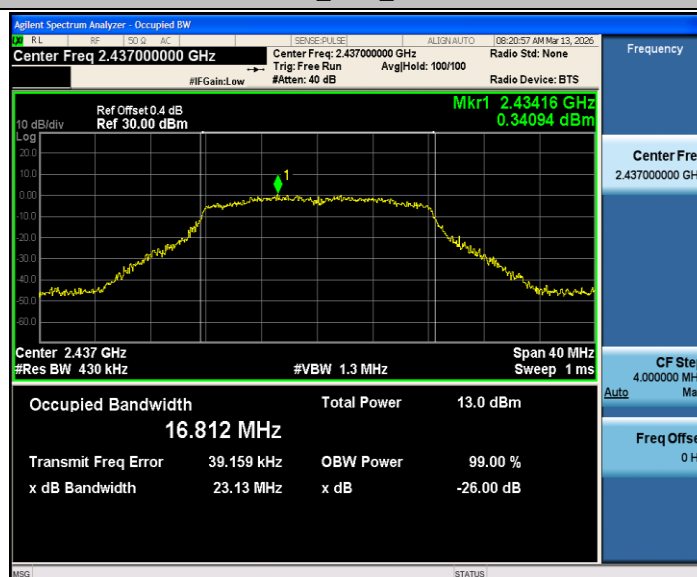
11B_Ant1_2462



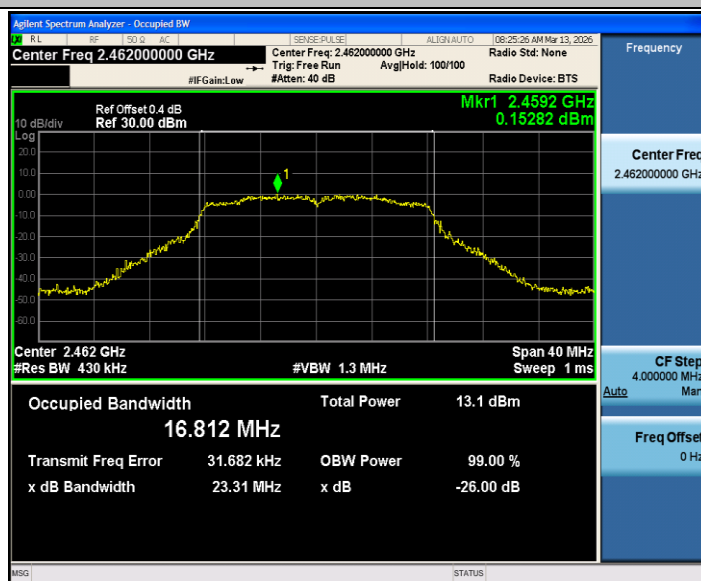
11G_Ant1_2412



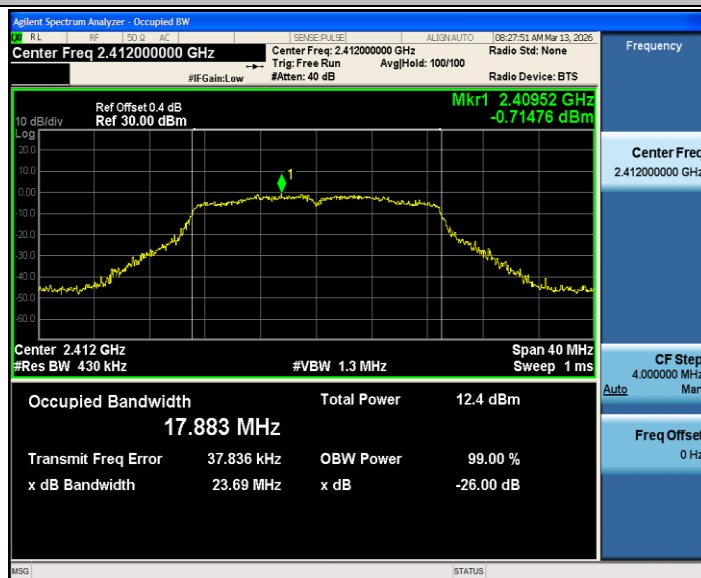
11G_Ant1_2437



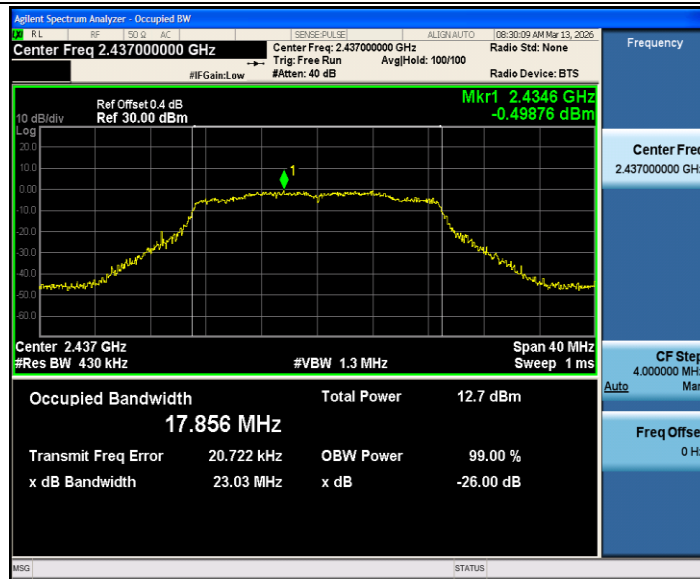
11G_Ant1_2462



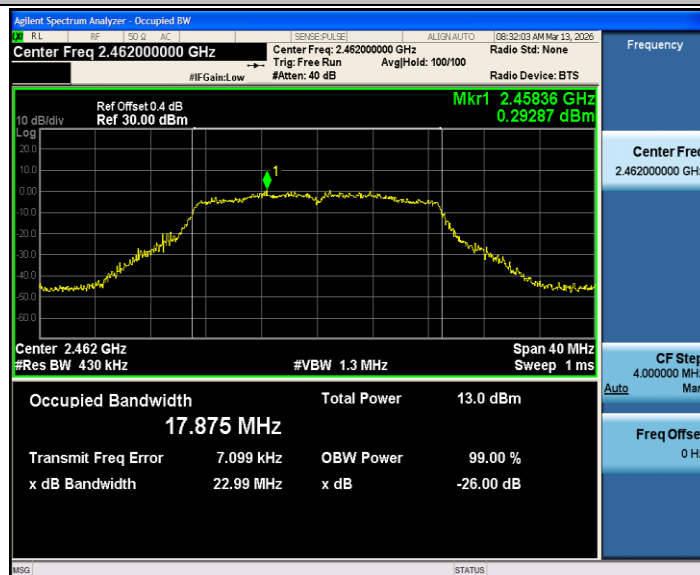
11N20SISO_Ant1_2412



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	13.80	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	14.16	≤30.00	PASS
11G	Ant1	2412	13.54	≤30.00	PASS
		2437	13.82	≤30.00	PASS
		2462	13.98	≤30.00	PASS
11N20SISO	Ant1	2412	13.50	≤30.00	PASS
		2437	13.50	≤30.00	PASS
		2462	13.92	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

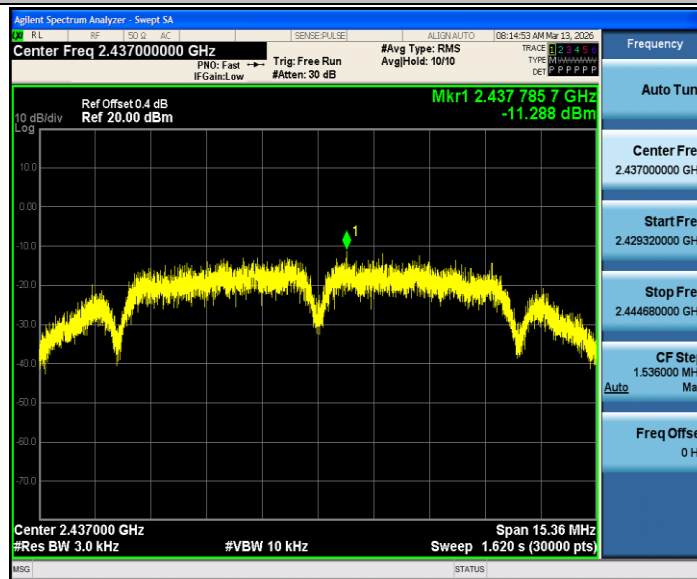
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.56	≤8.00	PASS
		2437	-11.29	≤8.00	PASS
		2462	-11.93	≤8.00	PASS
11G	Ant1	2412	-17.54	≤8.00	PASS
		2437	-17.95	≤8.00	PASS
		2462	-16.77	≤8.00	PASS
11N20SISO	Ant1	2412	-17.57	≤8.00	PASS
		2437	-18.21	≤8.00	PASS
		2462	-17.16	≤8.00	PASS

Test Graphs

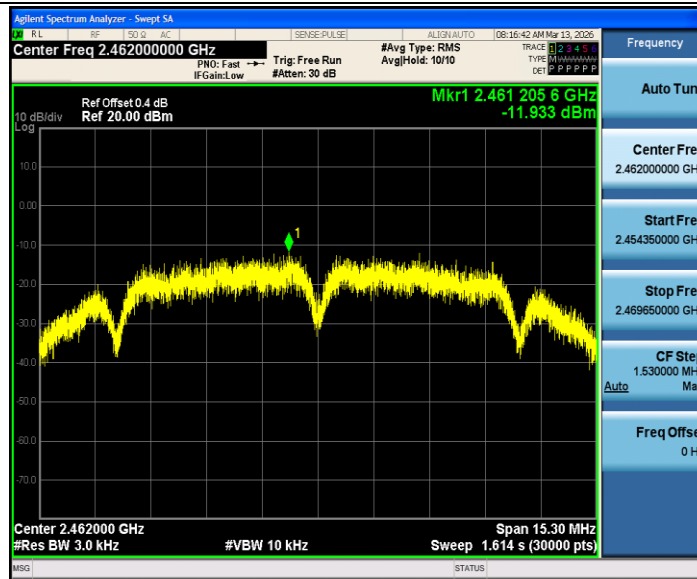
11B_Ant1_2412



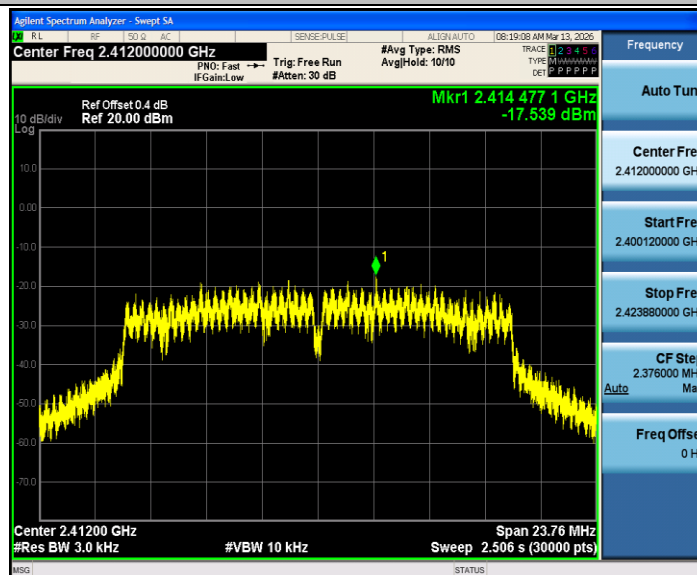
11B_Ant1_2437



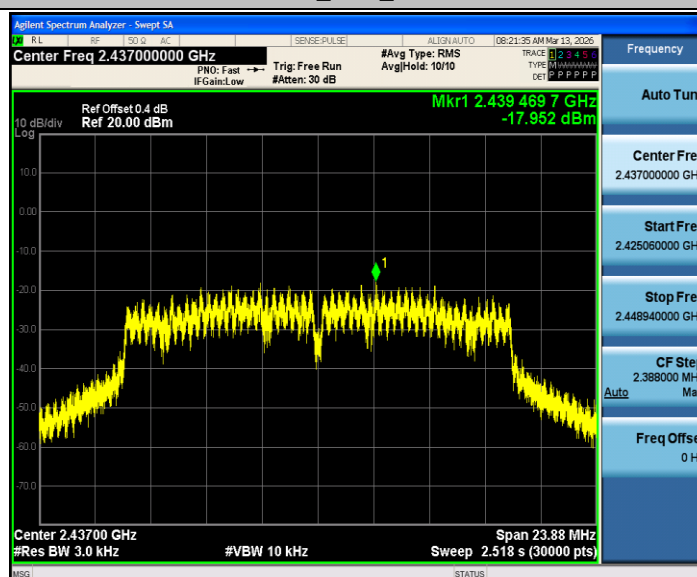
11B_Ant1_2462



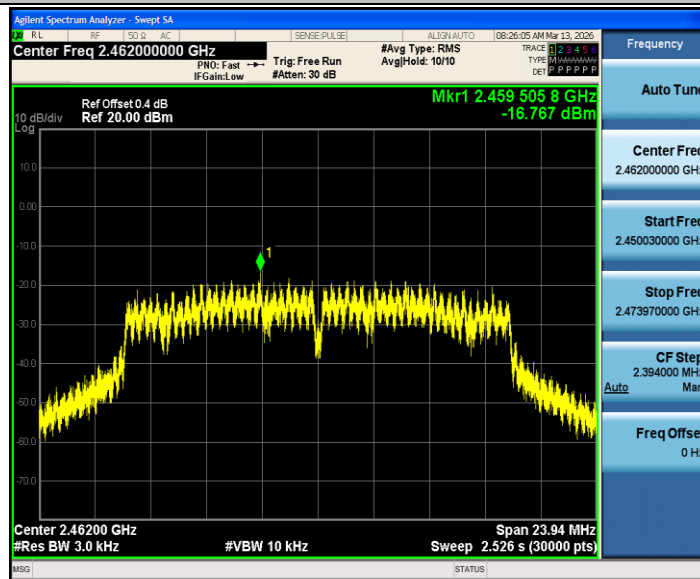
11G_Ant1_2412



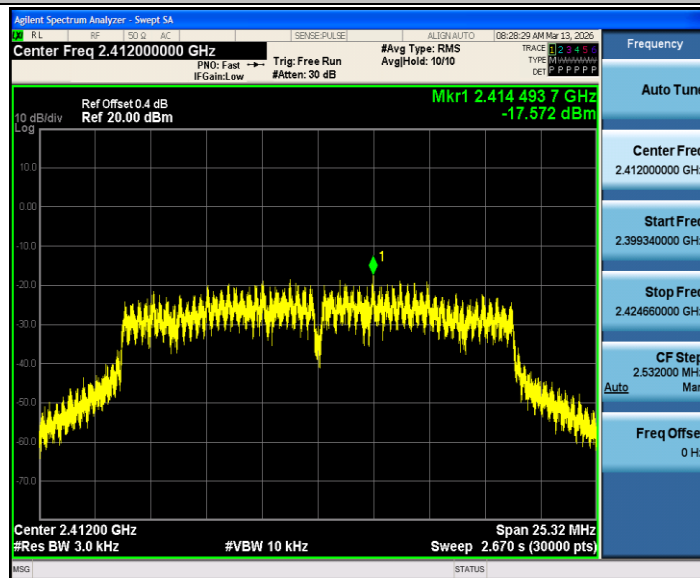
11G_Ant1_2437



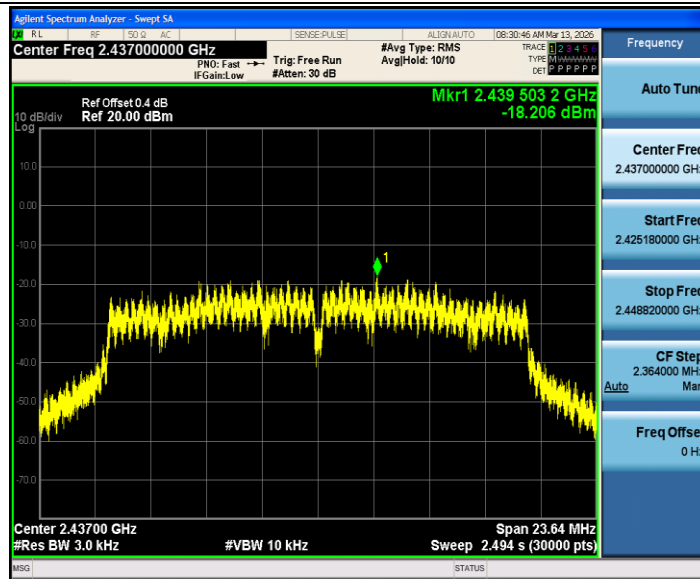
11G_Ant1_2462



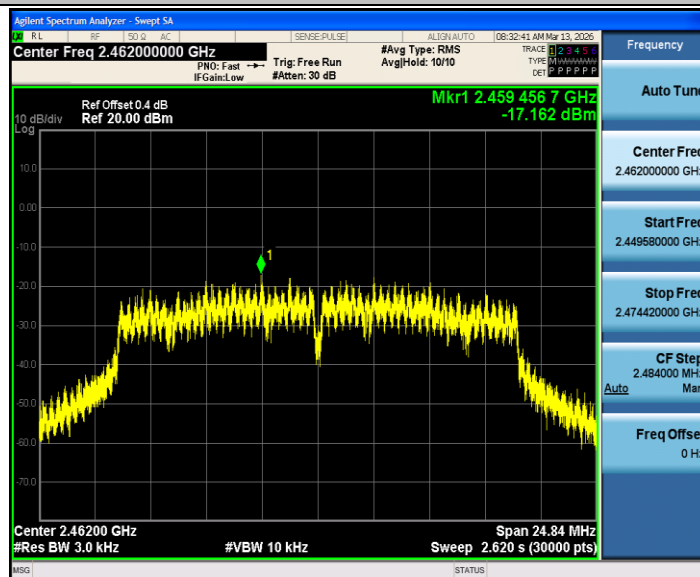
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



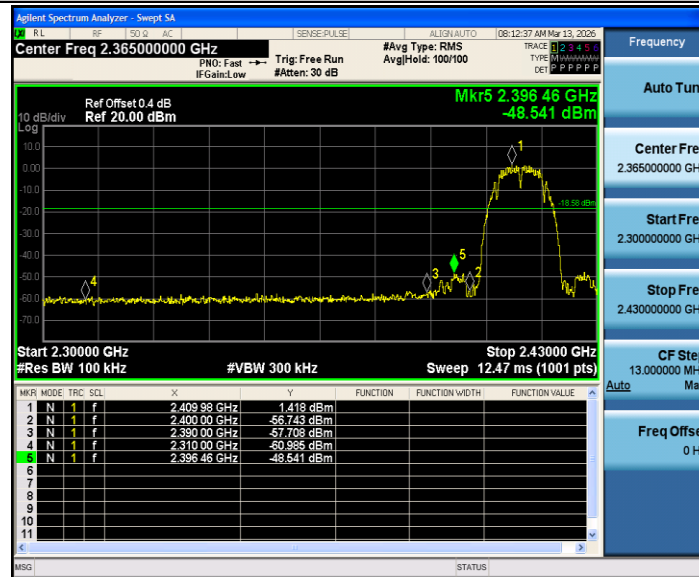
Appendix E: Band edge measurements

Test Result

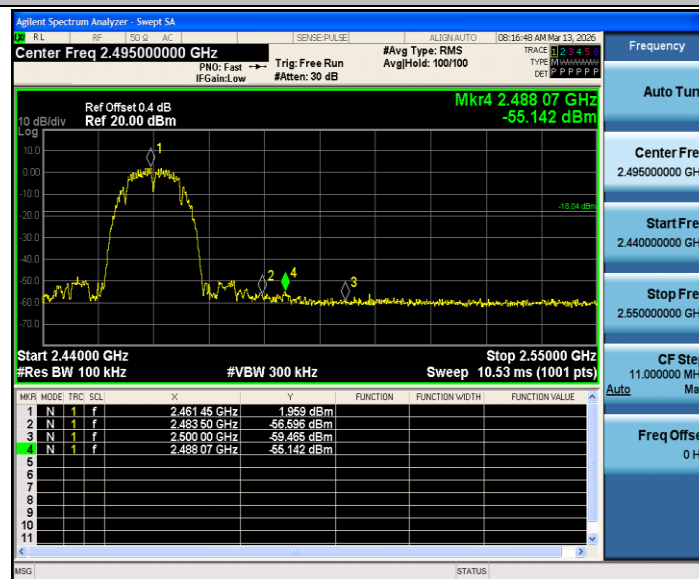
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.42	-48.54	≤-18.58	PASS
		High	2462	1.96	-55.14	≤-18.04	PASS
11G	Ant1	Low	2412	-2.85	-33.28	≤-22.85	PASS
		High	2462	-2.60	-57.78	≤-22.6	PASS
11N20SISO	Ant1	Low	2412	-2.85	-34.83	≤-22.85	PASS
		High	2462	-2.58	-57.08	≤-22.58	PASS

Test Graphs

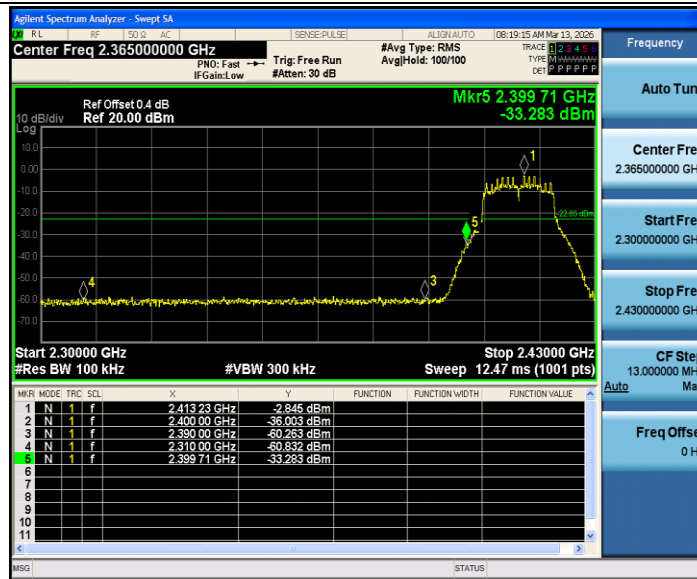
11B_Ant1_Low_2412



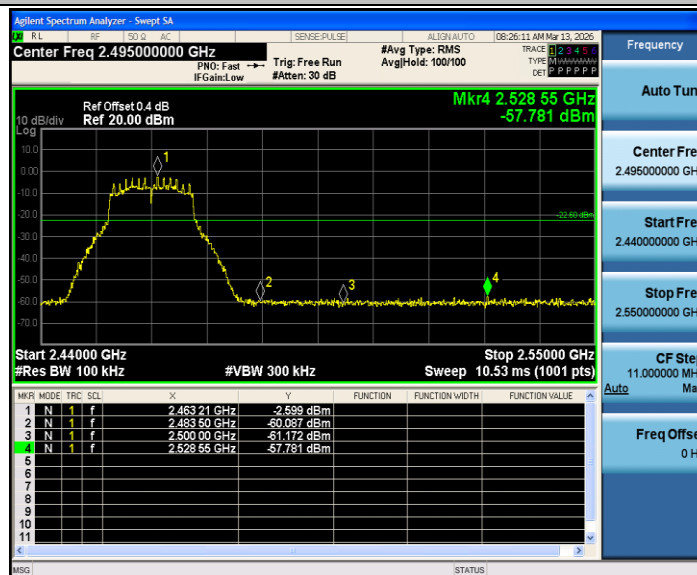
11B_Ant1_High_2462



11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

