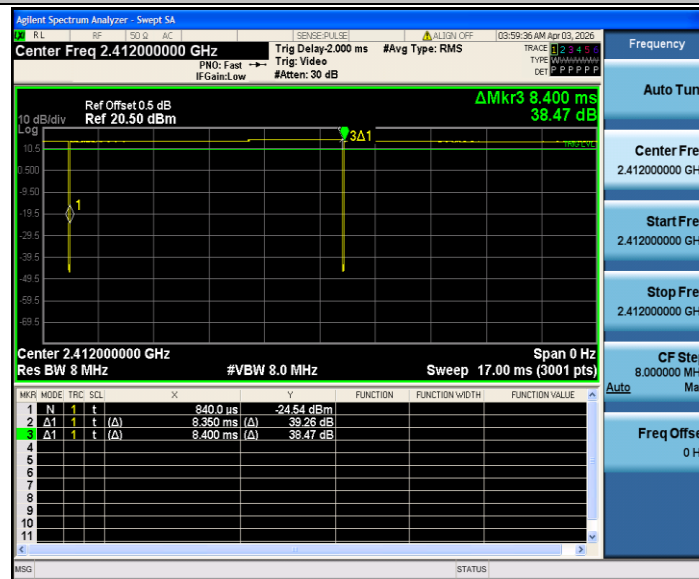
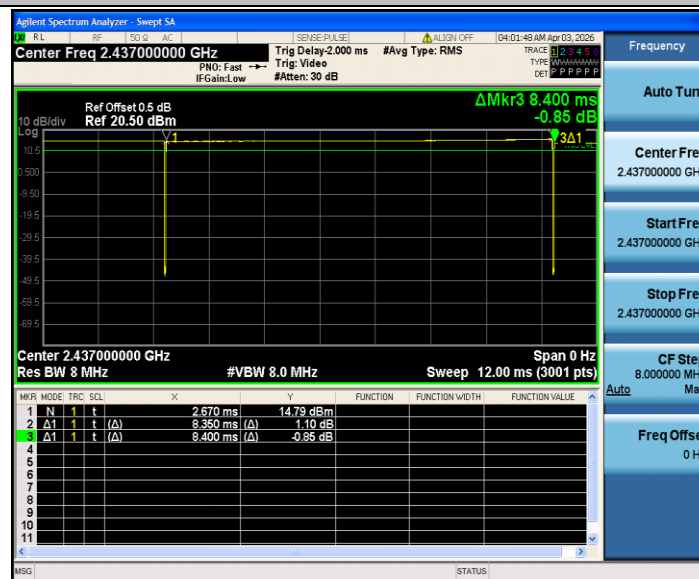


Test Graphs

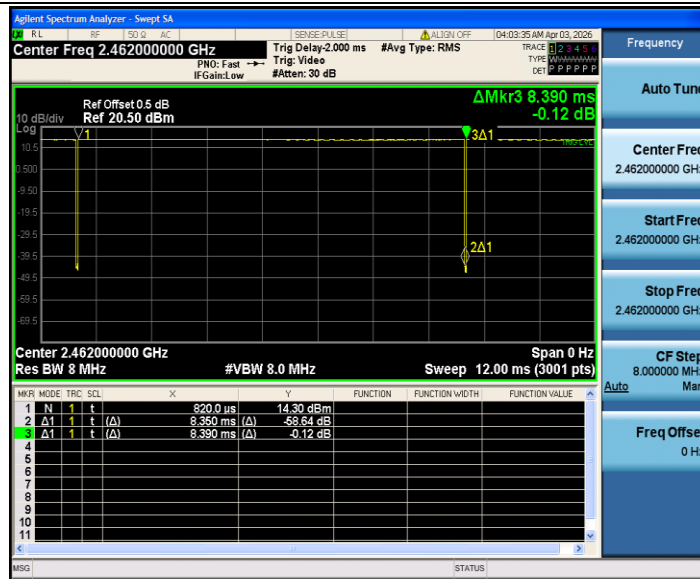
11B_Ant1_2412



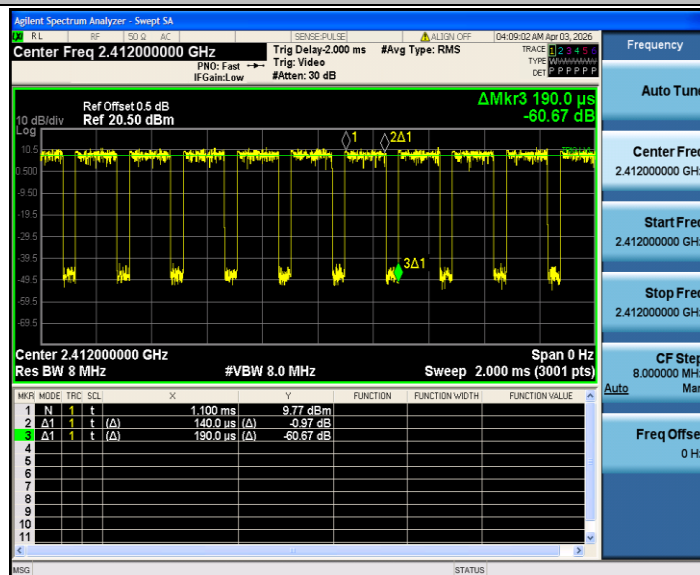
11B_Ant1_2437



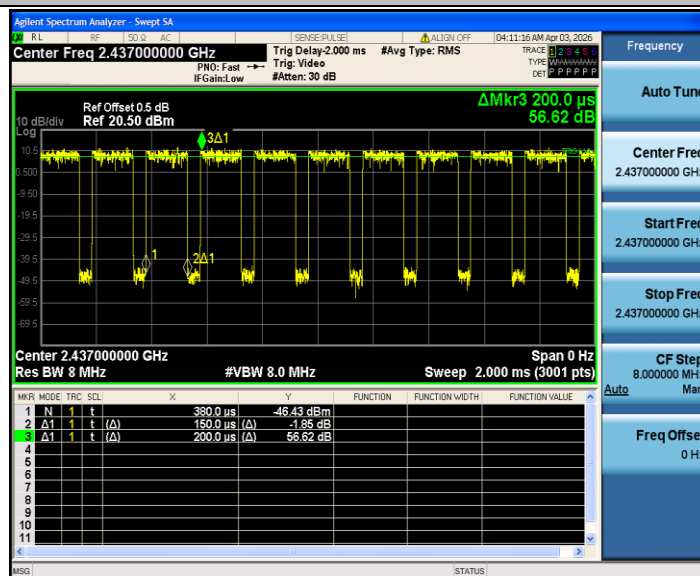
11B_Ant1_2462



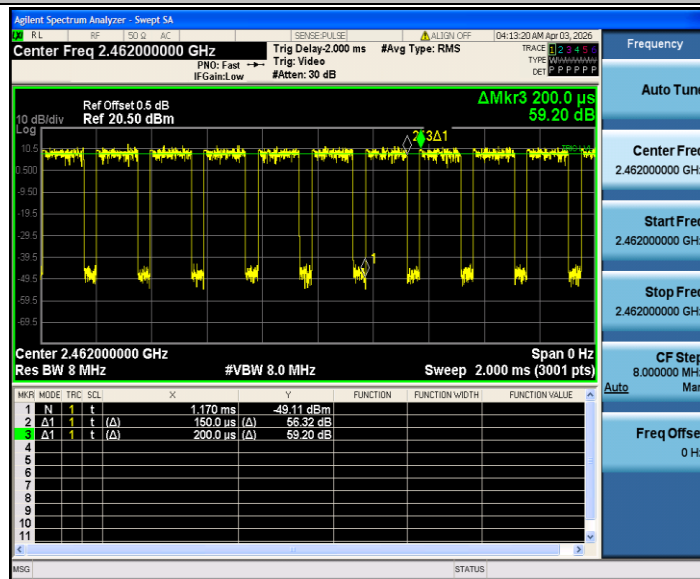
11G_Ant1_2412



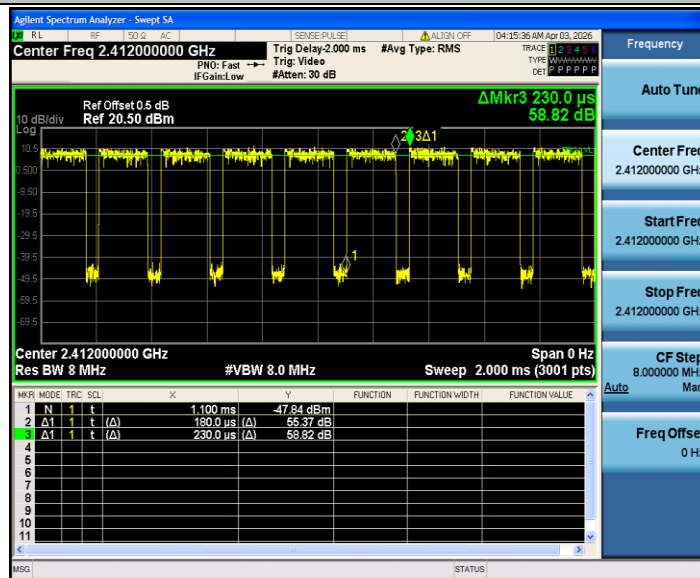
11G_Ant1_2437



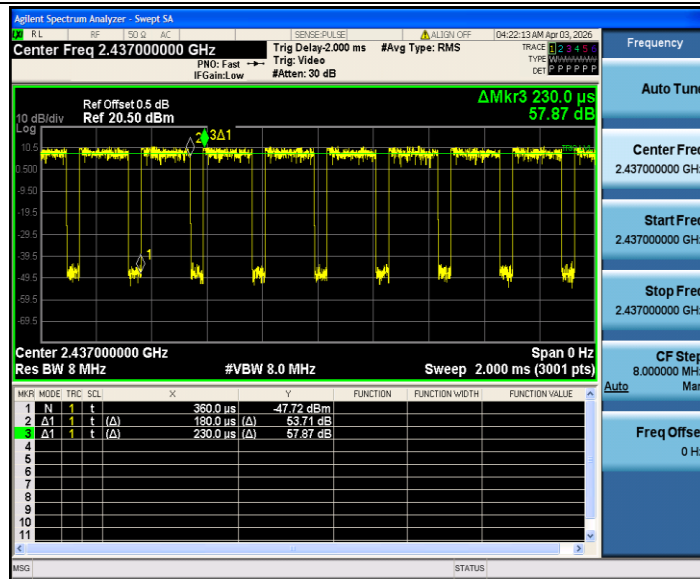
11G_Ant1_2462



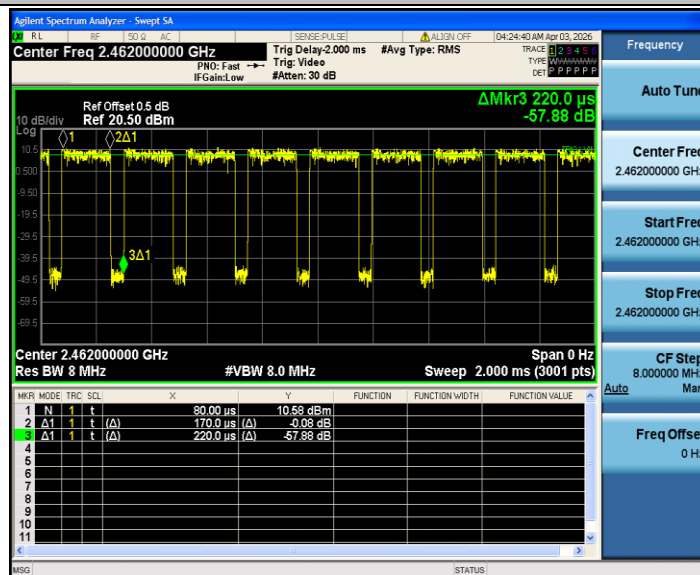
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix H: Emissions in Restricted Bands

Test Result

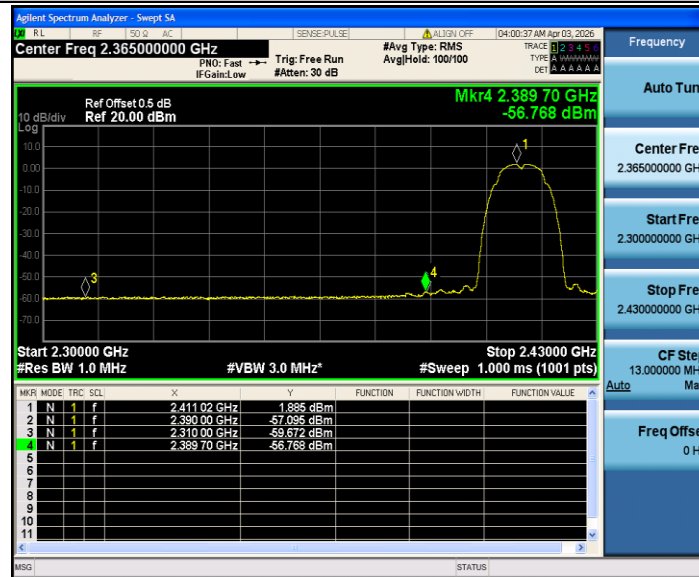
TestMode	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Low	2412	AV	2310.000	-59.67	4.60	0.03	40.16	≤54	PASS
			AV	2389.700	-56.77	4.60	0.03	43.06	≤54	PASS
			AV	2390.000	-57.1	4.60	0.03	42.73	≤54	PASS
			Peak	2310.000	-52.37	4.60	0.00	47.43	≤74	PASS
			Peak	2386.060	-48.19	4.60	0.00	51.61	≤74	PASS
			Peak	2390.000	-49.67	4.60	0.00	50.13	≤74	PASS
	High	2462	AV	2483.500	-58.37	4.60	0.02	41.45	≤54	PASS
			AV	2487.630	-57.62	4.60	0.02	42.2	≤54	PASS
			AV	2500.000	-59.14	4.60	0.02	40.68	≤54	PASS
			Peak	2483.500	-50.29	4.60	0.00	49.51	≤74	PASS
			Peak	2485.650	-48.56	4.60	0.00	51.24	≤74	PASS
			Peak	2500.000	-49.04	4.60	0.00	50.76	≤74	PASS
11G	Low	2412	AV	2310.000	-59.43	4.60	1.33	41.7	≤54	PASS
			AV	2380.990	-58.55	4.60	1.33	42.58	≤54	PASS
			AV	2390.000	-58.8	4.60	1.33	42.33	≤54	PASS
			Peak	2310.000	-52.49	4.60	0.00	47.31	≤74	PASS
			Peak	2352.000	-48.04	4.60	0.00	51.76	≤74	PASS
			Peak	2390.000	-51.87	4.60	0.00	47.93	≤74	PASS
	High	2462	AV	2483.500	-58.42	4.60	1.25	42.63	≤54	PASS
			AV	2483.780	-58.19	4.60	1.25	42.86	≤54	PASS
			AV	2500.000	-59.31	4.60	1.25	41.74	≤54	PASS
			Peak	2483.500	-51.04	4.60	0.00	48.76	≤74	PASS
			Peak	2492.690	-46.67	4.60	0.00	53.13	≤74	PASS
			Peak	2500.000	-50.9	4.60	0.00	48.9	≤74	PASS
11N20SISO	Low	2412	AV	2310.000	-59.65	4.60	1.06	41.21	≤54	PASS
			AV	2364.350	-58.52	4.60	1.06	42.34	≤54	PASS
			AV	2390.000	-59.34	4.60	1.06	41.52	≤54	PASS
			Peak	2310.000	-51.99	4.60	0.00	47.81	≤74	PASS
			Peak	2358.630	-47.49	4.60	0.00	52.31	≤74	PASS
			Peak	2390.000	-50.49	4.60	0.00	49.31	≤74	PASS
	High	2462	AV	2483.500	-58.01	4.60	1.12	42.91	≤54	PASS
			AV	2484.110	-57.94	4.60	1.12	42.98	≤54	PASS
			AV	2500.000	-59.07	4.60	1.12	41.85	≤54	PASS
			Peak	2483.500	-49.71	4.60	0.00	50.09	≤74	PASS
			Peak	2483.560	-48.18	4.60	0.00	51.62	≤74	PASS
			Peak	2500.000	-50.67	4.60	0.00	49.13	≤74	PASS

Note:

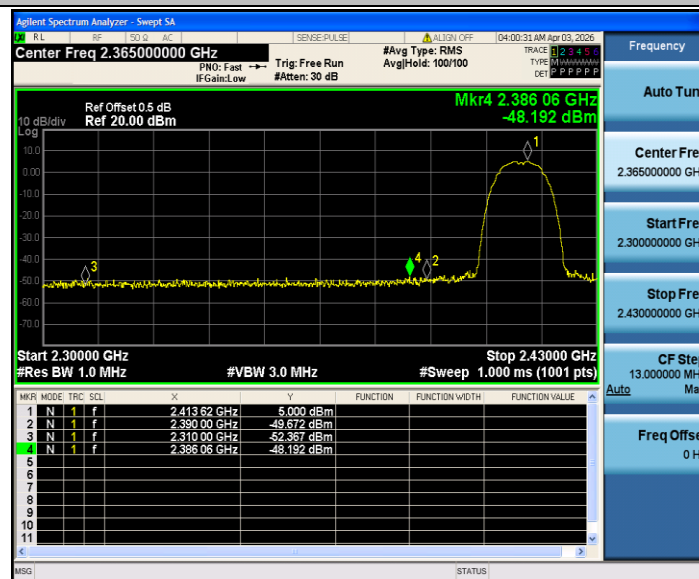
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

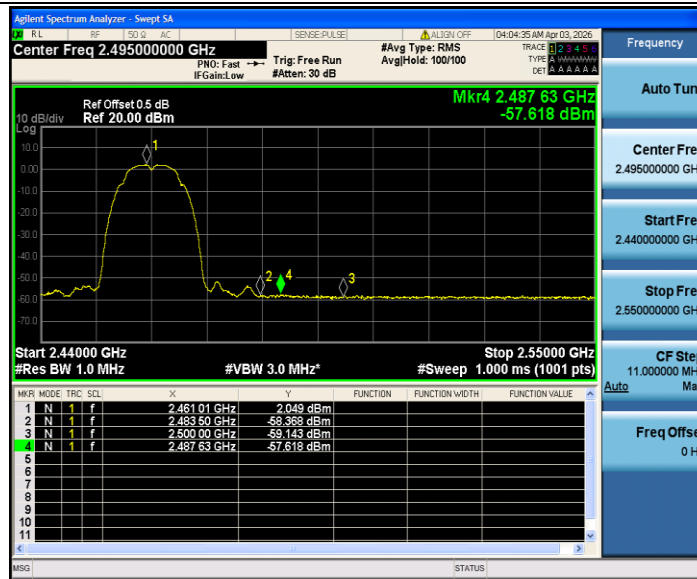
11B_Ant1_Low_2412_AV



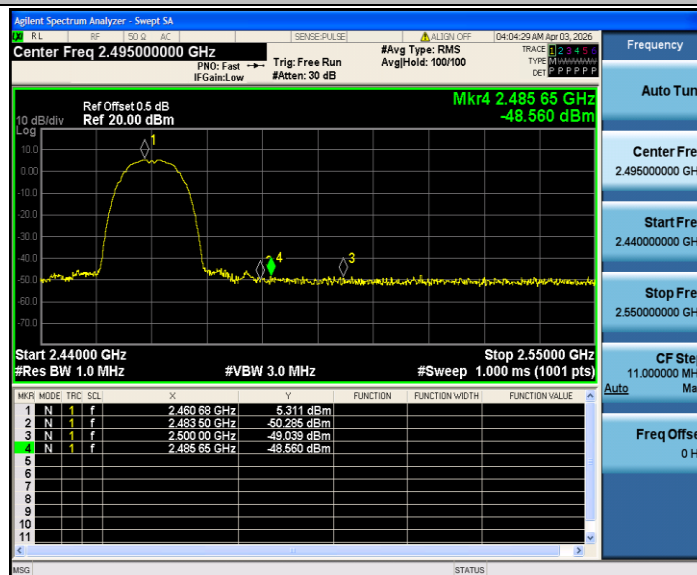
11B_Ant1_Low_2412_Peak



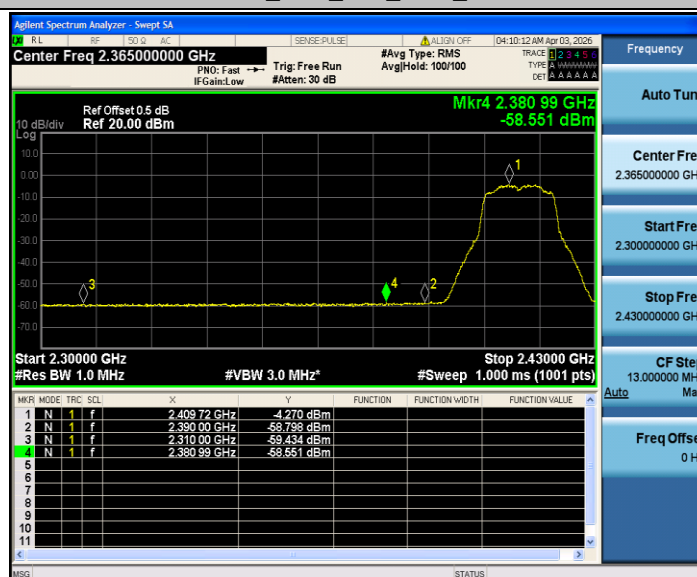
11B_Ant1_High_2462_AV



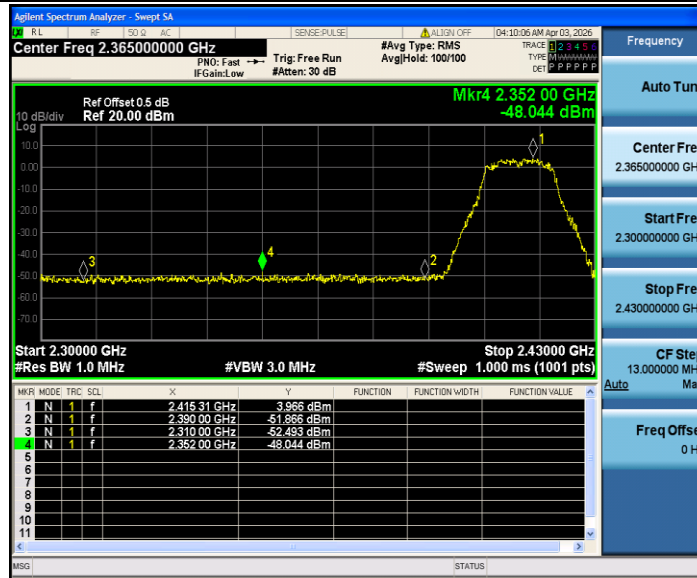
11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV



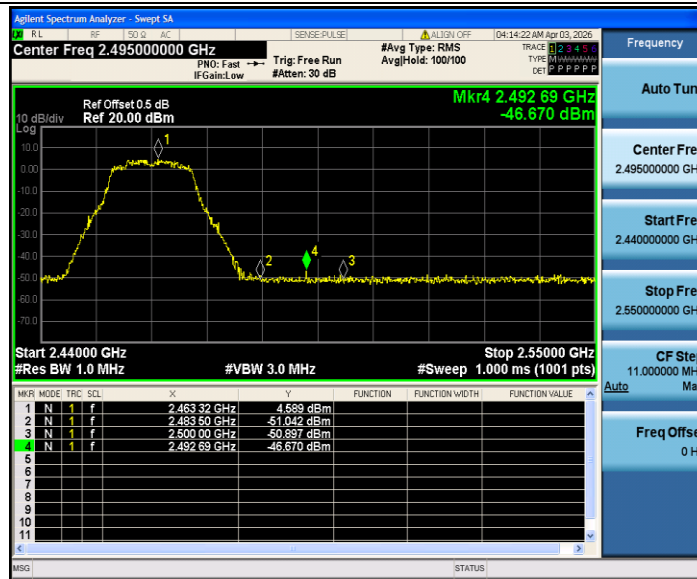
11G_Ant1_Low_2412_Peak



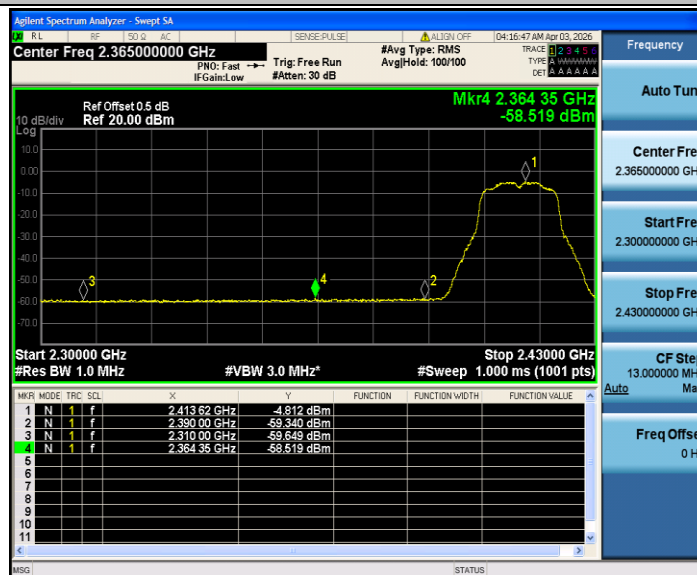
11G_Ant1_High_2462_AV



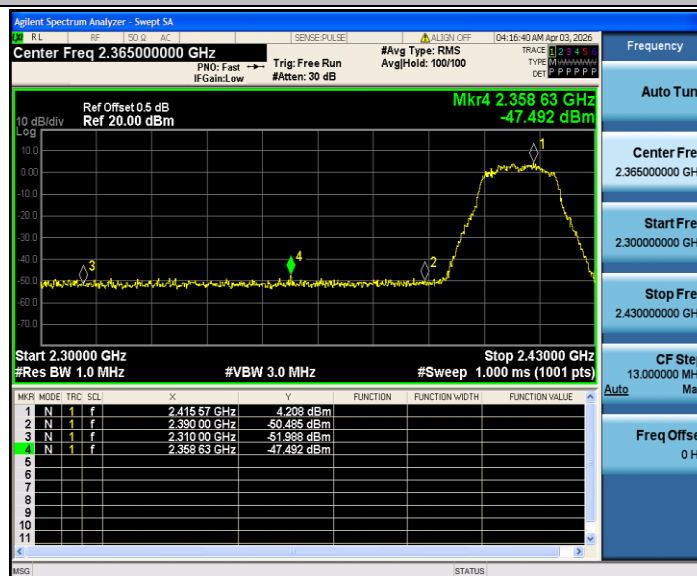
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



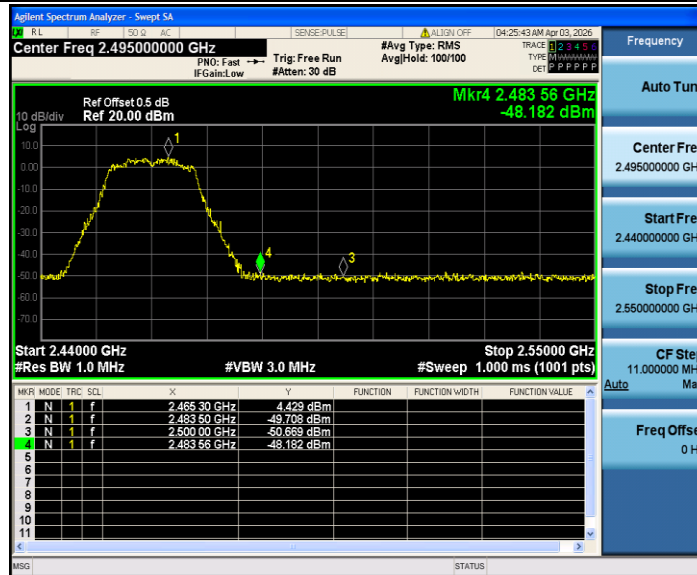
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



Appendix RF Test Data for 2.4GWIFI ANT2

Appendix A: DTS Bandwidth

Test Result

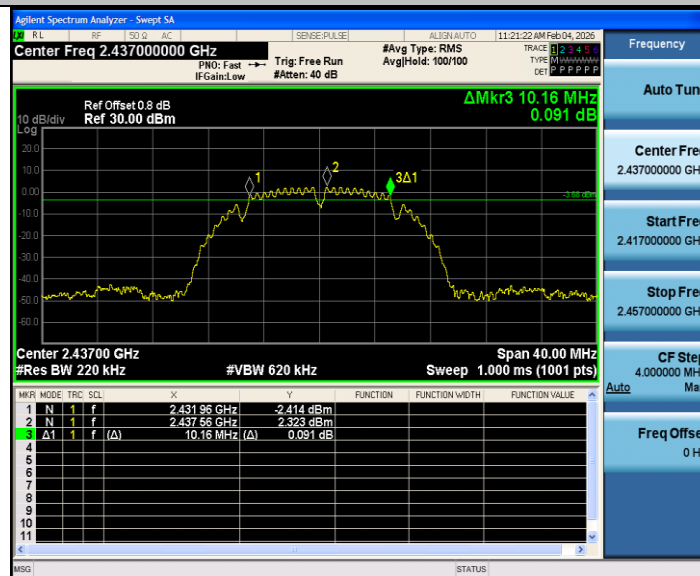
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.160	2431.960	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant2	2412	15.960	2404.040	2420.000	0.5	PASS
		2437	15.760	2429.200	2444.960	0.5	PASS
		2462	15.640	2454.080	2469.720	0.5	PASS
11N20SISO	Ant2	2412	15.920	2404.200	2420.120	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.000	2454.040	2470.040	0.5	PASS

Test Graphs

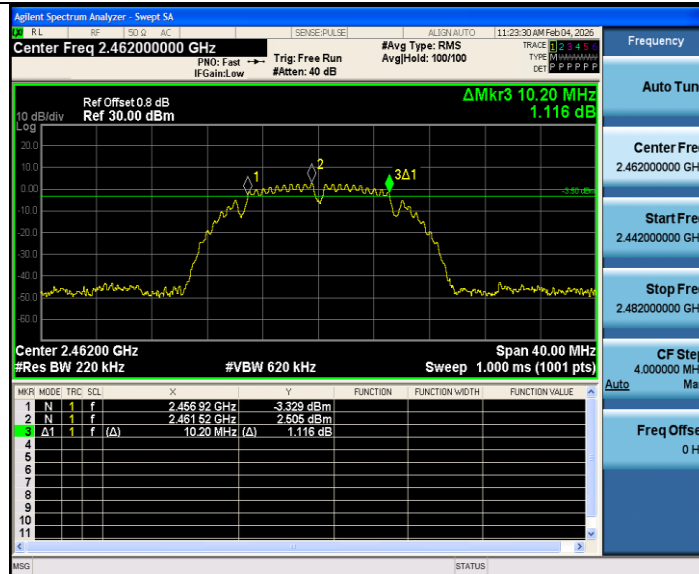
11B_Ant2_2412



11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437



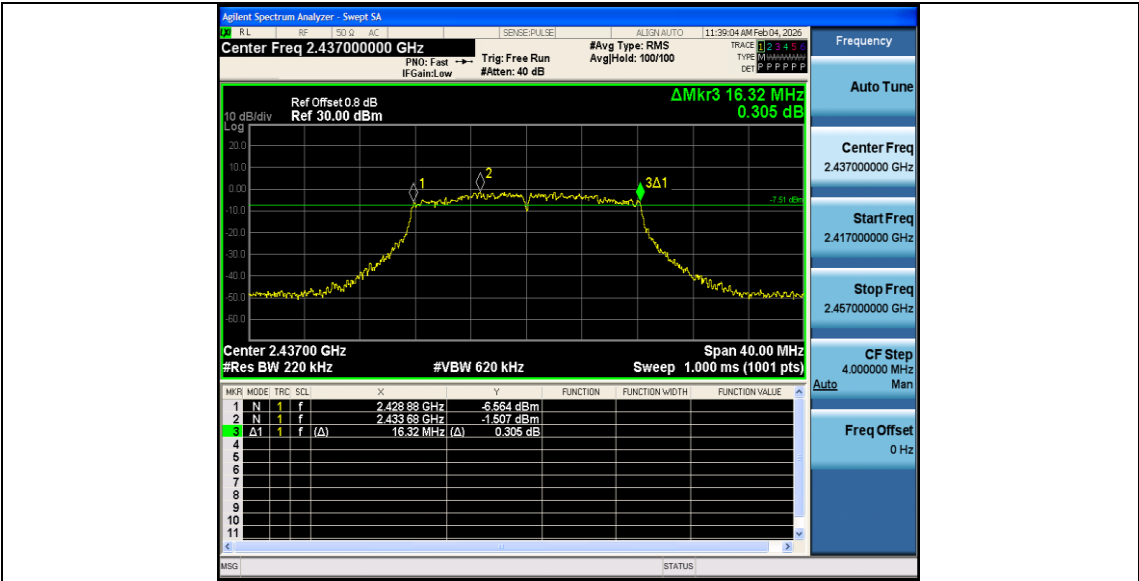
11G_Ant2_2462



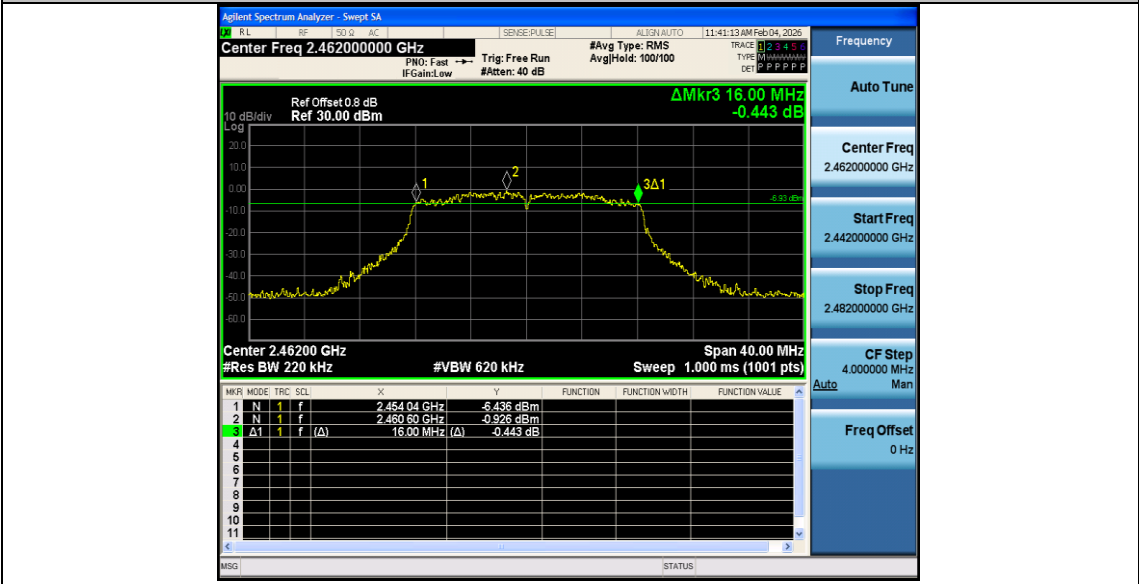
11N20SISO_Ant2_2412



11N20SISO_Ant2_2437



11N20SISO_Ant2_2462



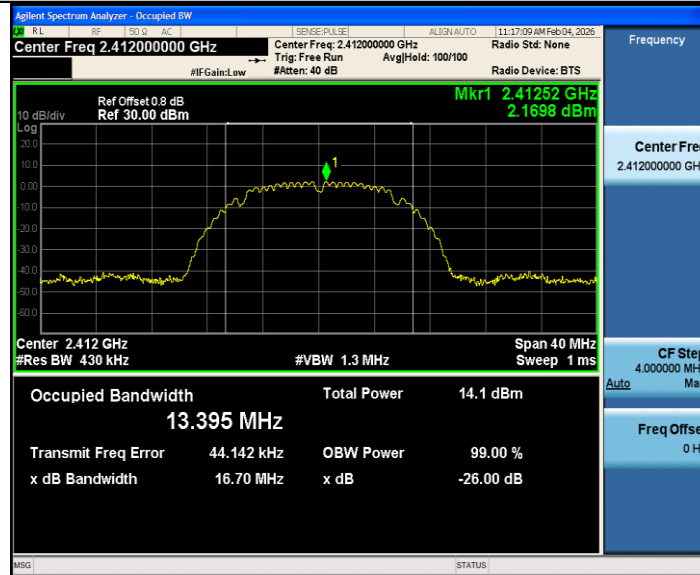
Appendix B: Occupied Channel Bandwidth

Test Result

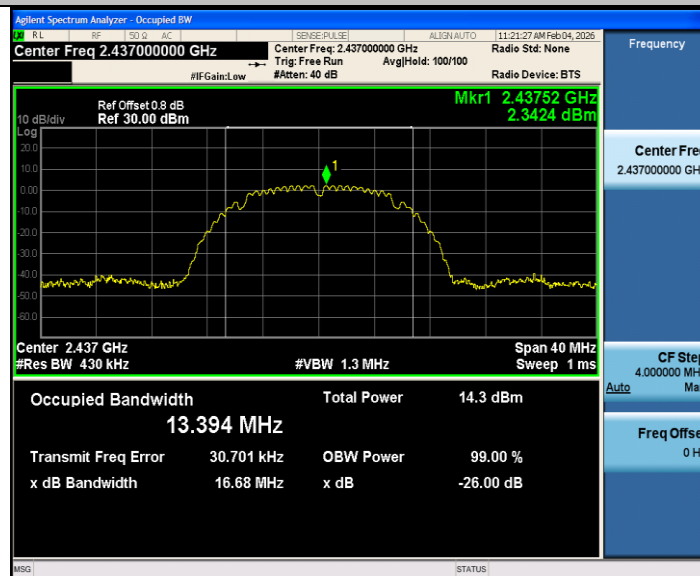
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.395	2405.3466	2418.7416	---	---
		2437	13.394	2430.3337	2443.7277	---	---
		2462	13.409	2455.3079	2468.7169	---	---
11G	Ant2	2412	16.818	2403.6788	2420.4968	---	---
		2437	16.800	2428.6695	2445.4695	---	---
		2462	16.849	2453.5989	2470.4479	---	---
11N20SISO	Ant2	2412	16.526	2403.7713	2420.2973	---	---
		2437	16.598	2428.7131	2445.3111	---	---
		2462	16.522	2453.7710	2470.2930	---	---

Test Graphs

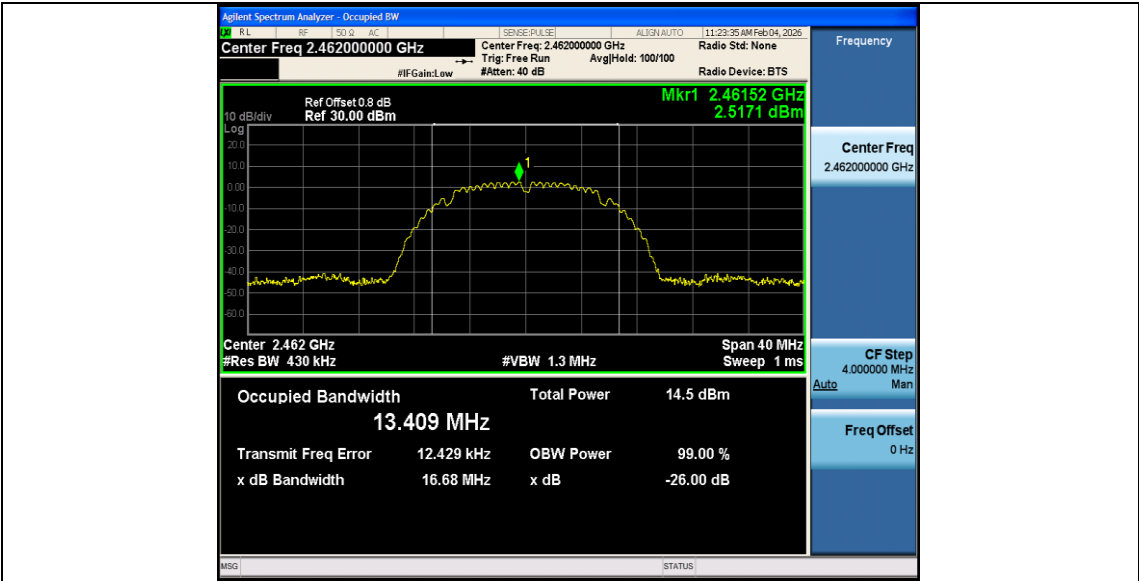
11B_Ant2_2412



11B_Ant2_2437



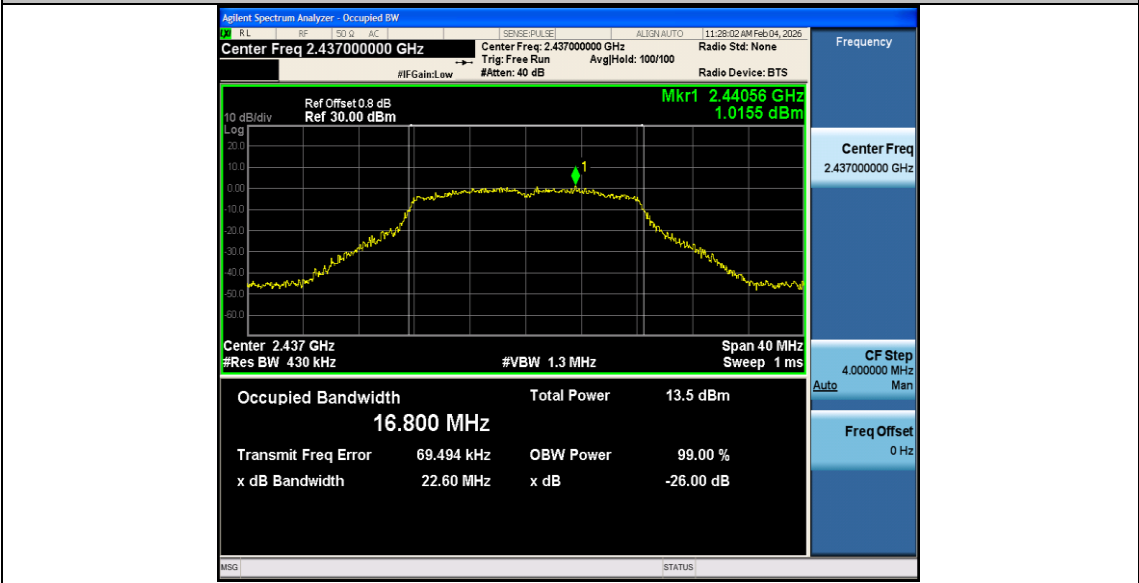
11B_Ant2_2462



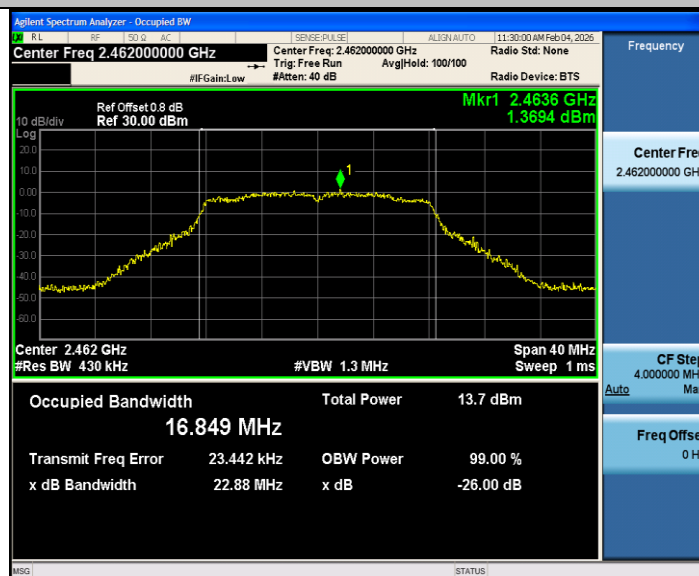
11G_Ant2_2412



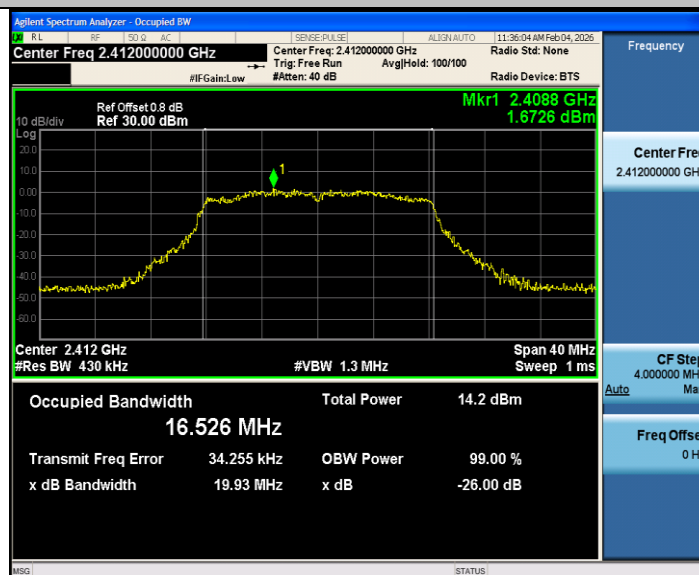
11G_Ant2_2437



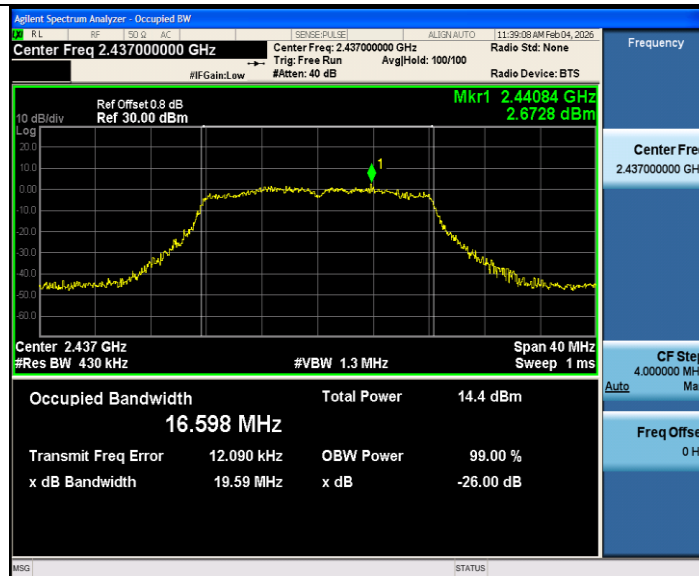
11G_Ant2_2462



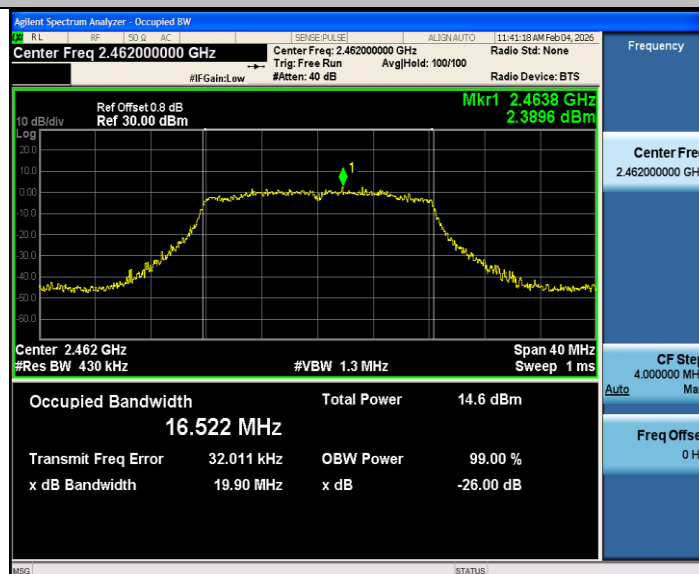
11N20SISO_Ant2_2412



11N20SISO_Ant2_2437



11N20SISO_Ant2_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant2	2412	13.91	≤30.00	PASS
		2437	14.07	≤30.00	PASS
		2462	14.17	≤30.00	PASS
11G	Ant2	2412	14.36	≤30.00	PASS
		2437	14.52	≤30.00	PASS
		2462	14.63	≤30.00	PASS
11N20SISO	Ant2	2412	14.83	≤30.00	PASS
		2437	15.10	≤30.00	PASS
		2462	15.31	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant2	2412	-12.23	≤8.00	PASS
		2437	-11.23	≤8.00	PASS
		2462	-11.63	≤8.00	PASS
11G	Ant2	2412	-17.19	≤8.00	PASS
		2437	-17.19	≤8.00	PASS
		2462	-18.00	≤8.00	PASS
11N20SISO	Ant2	2412	-17.34	≤8.00	PASS
		2437	-16.90	≤8.00	PASS
		2462	-17.00	≤8.00	PASS

Test Graphs

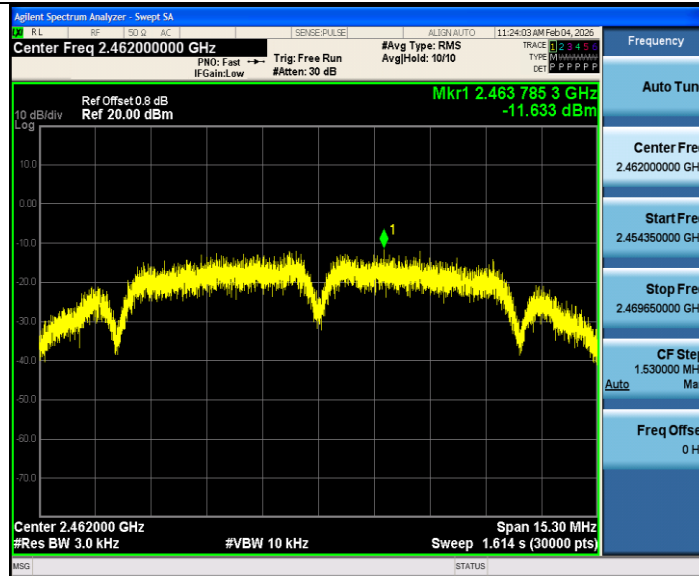
11B_Ant2_2412



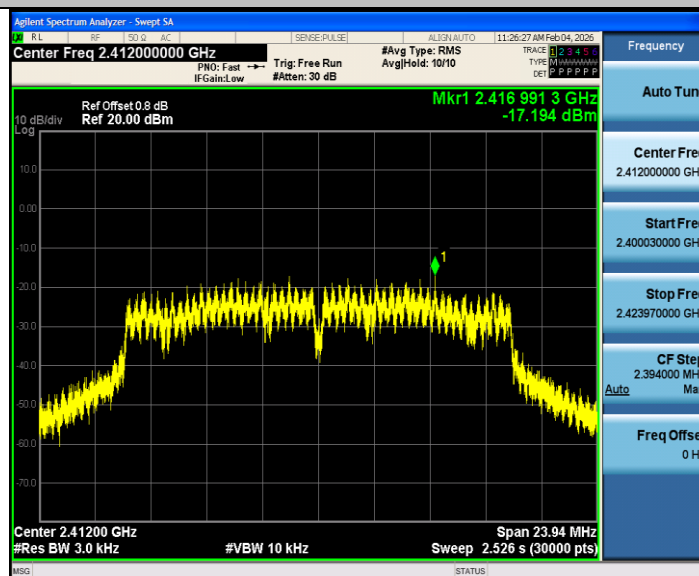
11B_Ant2_2437



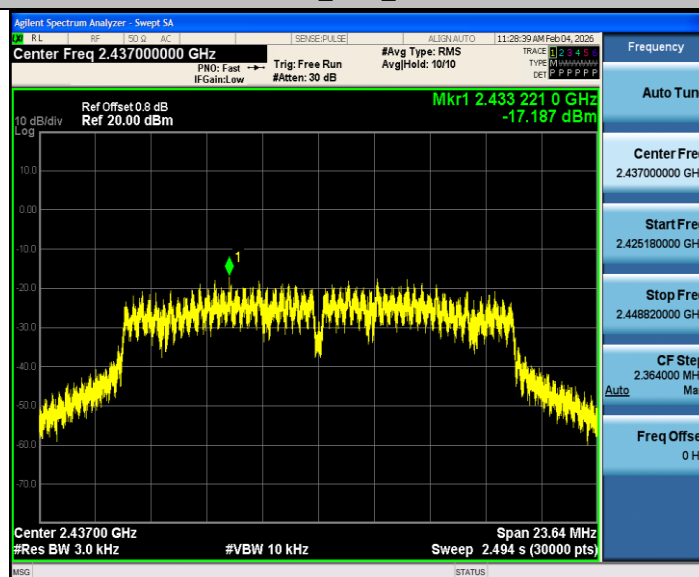
11B_Ant2_2462



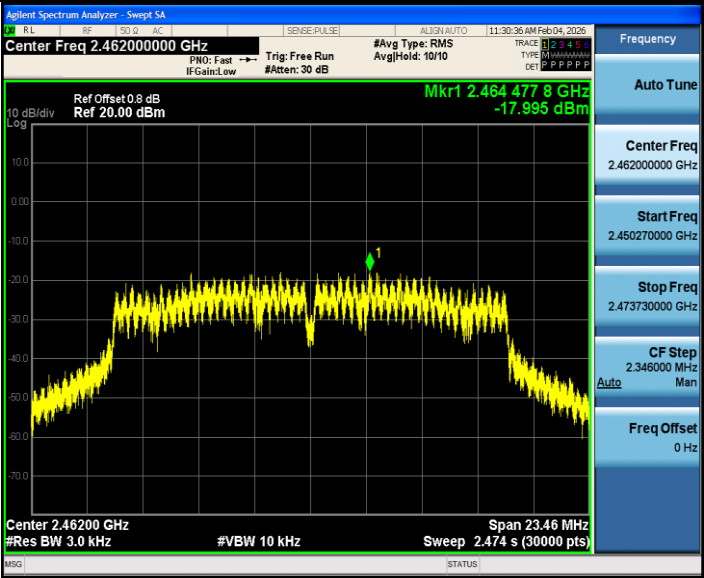
11G_Ant2_2412



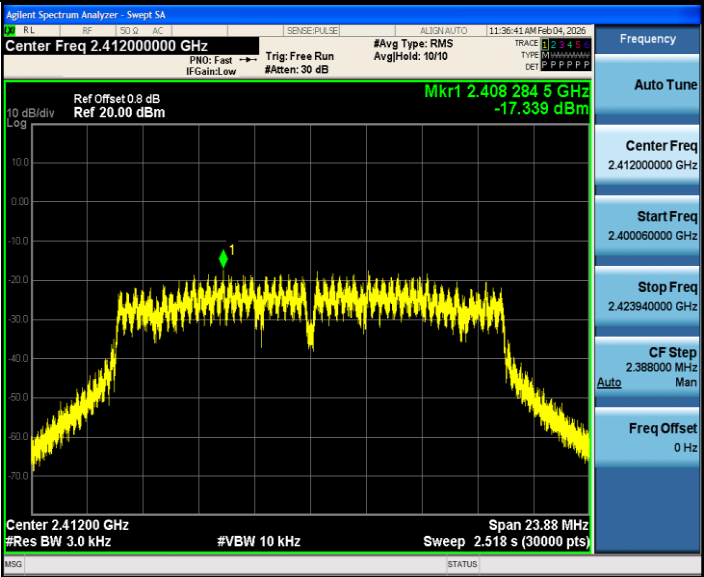
11G_Ant2_2437



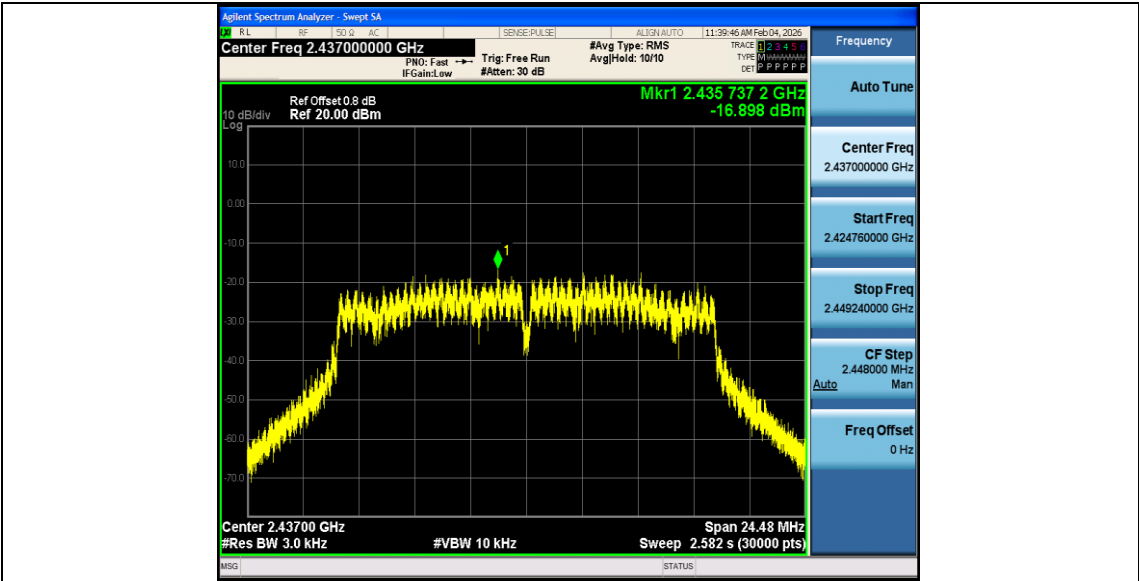
11G_Ant2_2462



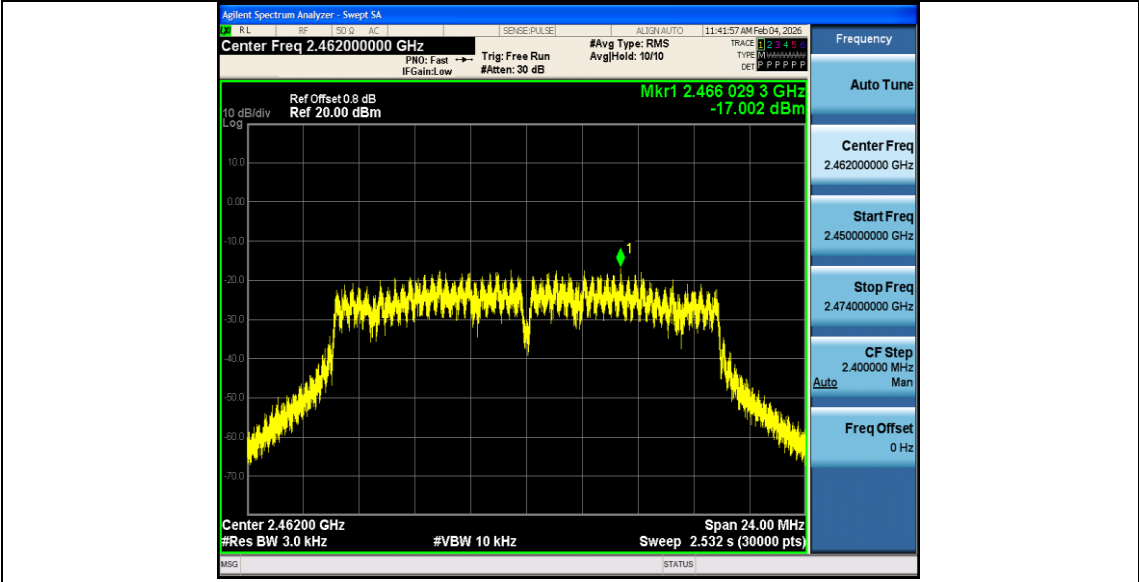
11N20SISO_Ant2_2412



11N20SISO_Ant2_2437



11N20SISO_Ant2_2462



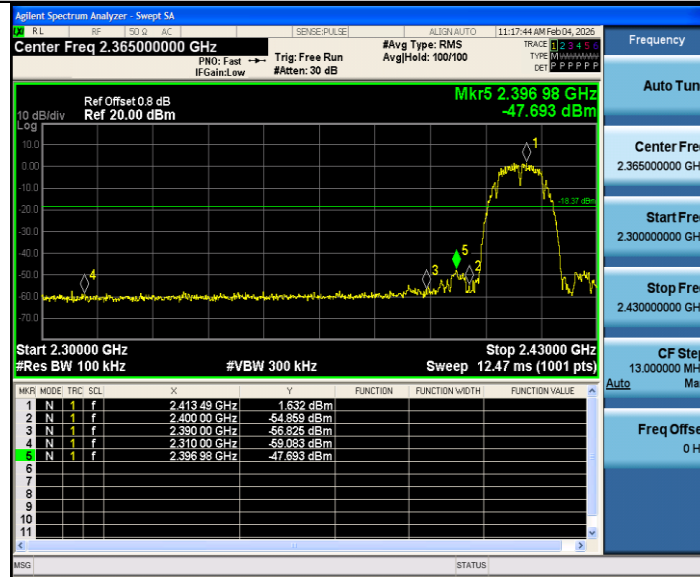
Appendix E: Band edge measurements

Test Result

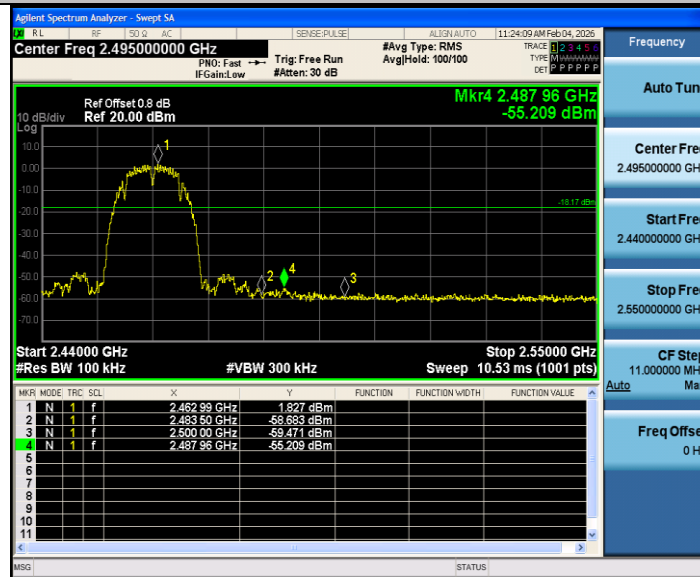
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	Low	2412	1.63	-47.69	≤-18.37	PASS
		High	2462	1.83	-55.21	≤-18.17	PASS
11G	Ant2	Low	2412	-2.24	-32.34	≤-22.24	PASS
		High	2462	-1.87	-57.3	≤-21.87	PASS
11N20SISO	Ant2	Low	2412	-2.58	-40.55	≤-22.58	PASS
		High	2462	-2.29	-57.5	≤-22.29	PASS

Test Graphs

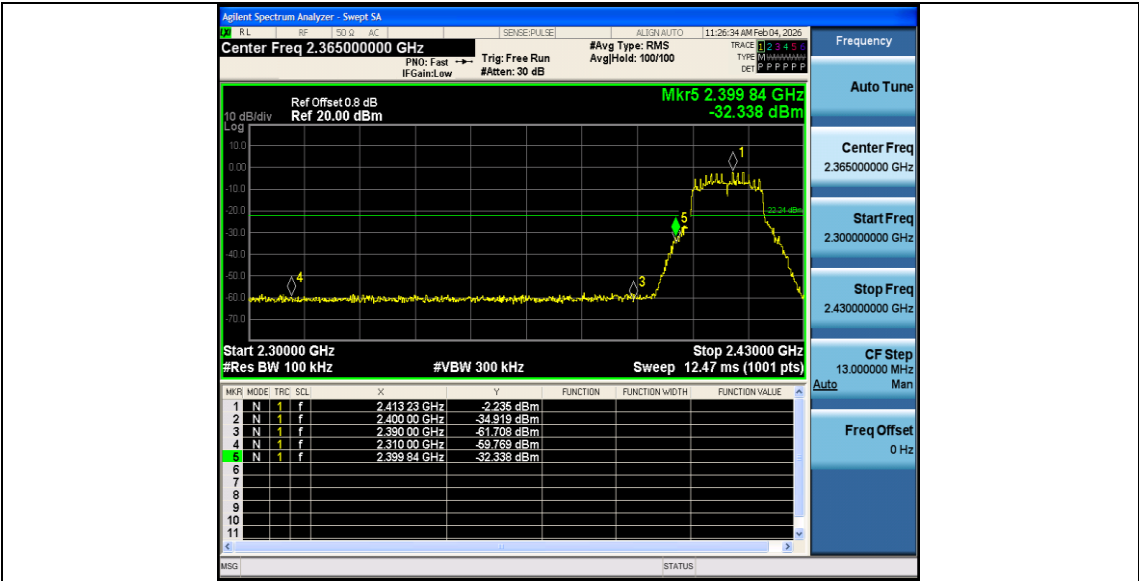
11B_Ant2_Low_2412



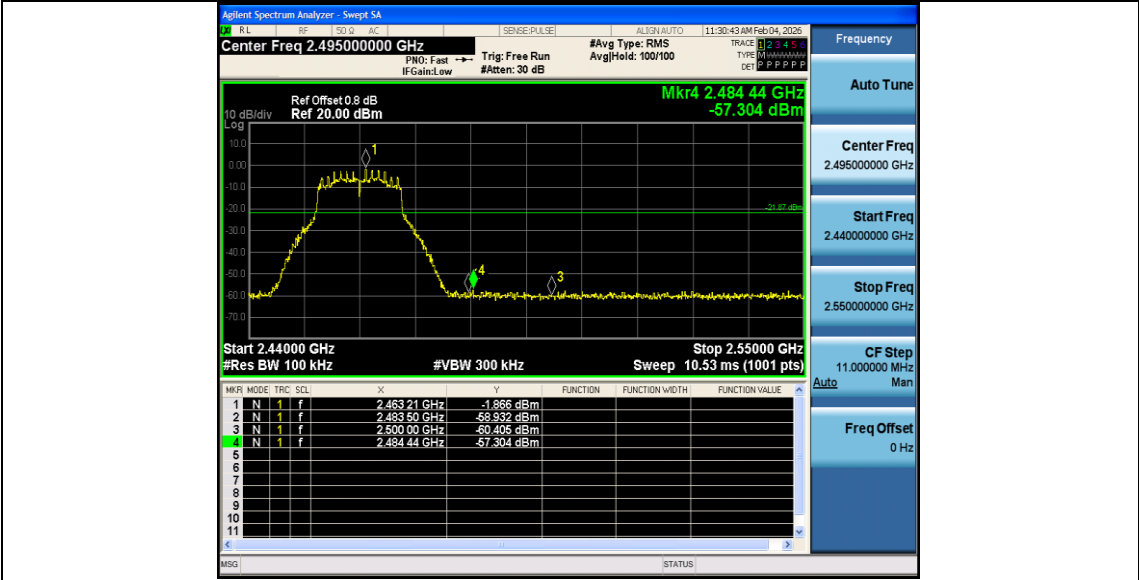
11B_Ant2_High_2462



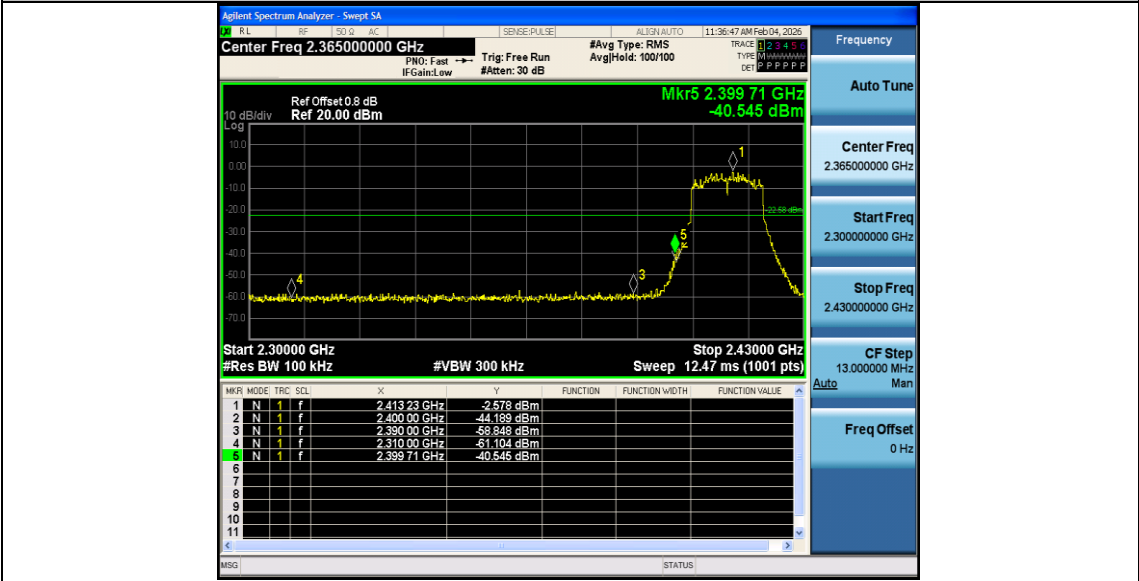
11G_Ant2_Low_2412



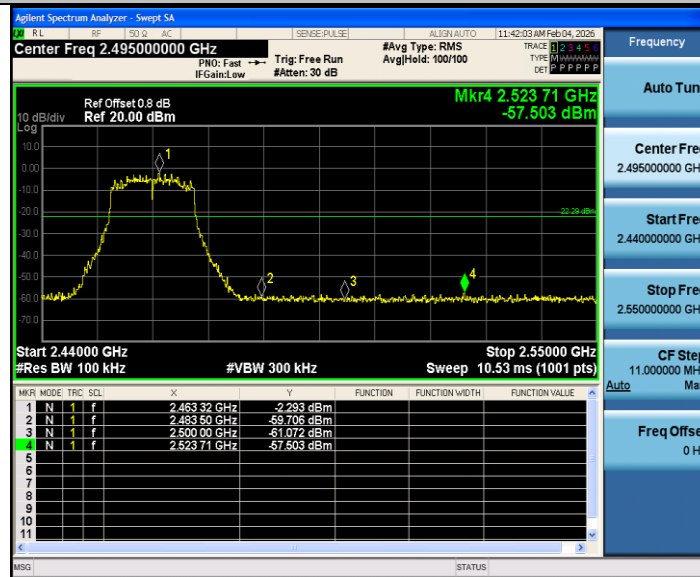
11G_Ant2_High_2462



11N20SISO_Ant2_Low_2412



11N20SISO_Ant2_High_2462



Appendix F: Conducted Spurious Emission

Test Result

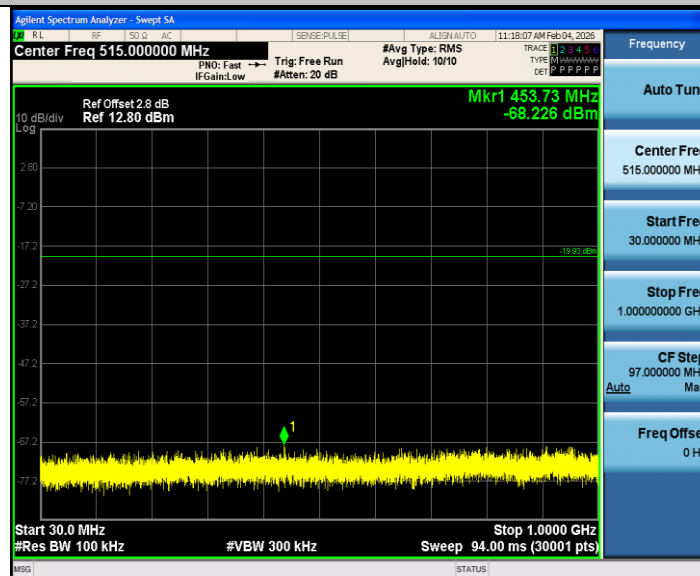
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant2	2412	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-68.23	≤-19.93	PASS
			1000~26500	0.07	-54.65	≤-19.93	PASS
		2437	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-67.42	≤-19.15	PASS
			1000~26500	0.85	-55.23	≤-19.15	PASS
		2462	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-67.59	≤-17.94	PASS
			1000~26500	2.06	-55.13	≤-17.94	PASS
11G	Ant2	2412	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-67.92	≤-22.42	PASS
			1000~26500	-2.42	-54.37	≤-22.42	PASS
		2437	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-66.47	≤-22.88	PASS
			1000~26500	-2.88	-54.19	≤-22.88	PASS
		2462	Reference	-2.70	-2.70	---	PASS
			30~1000	-2.70	-67.47	≤-22.7	PASS
			1000~26500	-2.70	-54.63	≤-22.7	PASS
11N20SISO	Ant2	2412	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-67.69	≤-23.38	PASS
			1000~26500	-3.38	-55.35	≤-23.38	PASS
		2437	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-68.03	≤-22.83	PASS
			1000~26500	-2.83	-54.92	≤-22.83	PASS
		2462	Reference	-2.87	-2.87	---	PASS
			30~1000	-2.87	-67.43	≤-22.87	PASS
			1000~26500	-2.87	-54.83	≤-22.87	PASS

Test Graphs

11B_Ant2_2412_0~Reference



11B_Ant2_2412_30~1000



11B_Ant2_2412_1000~26500