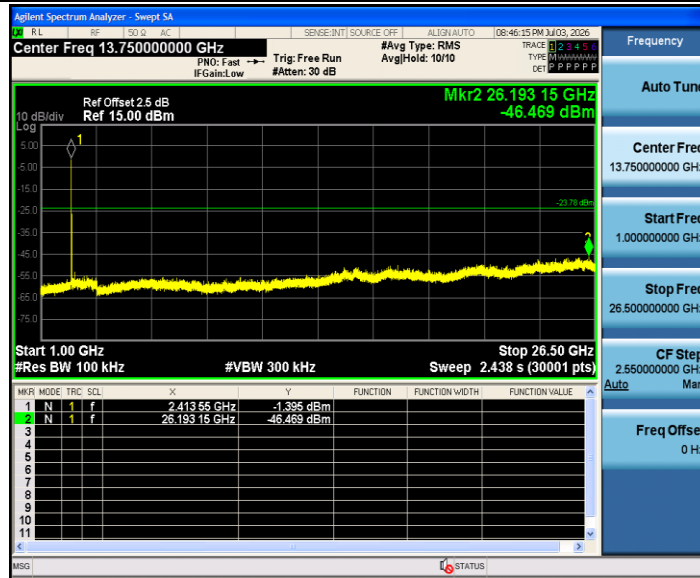


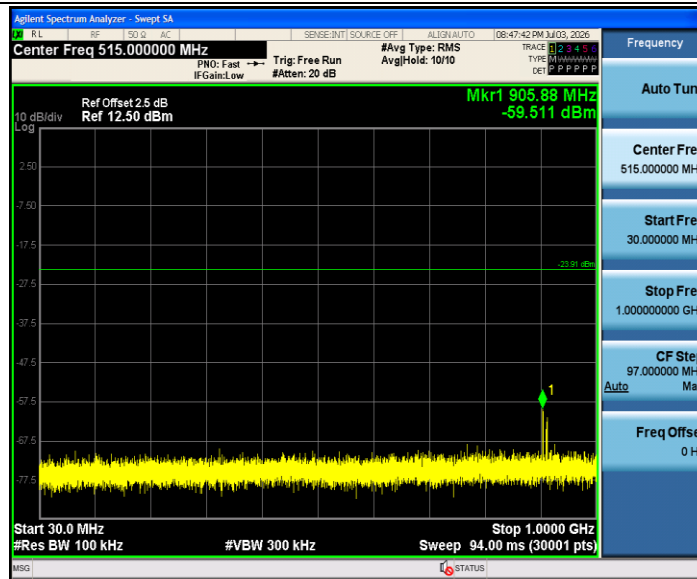
11N20SISO_Ant1_2412_1000~26500



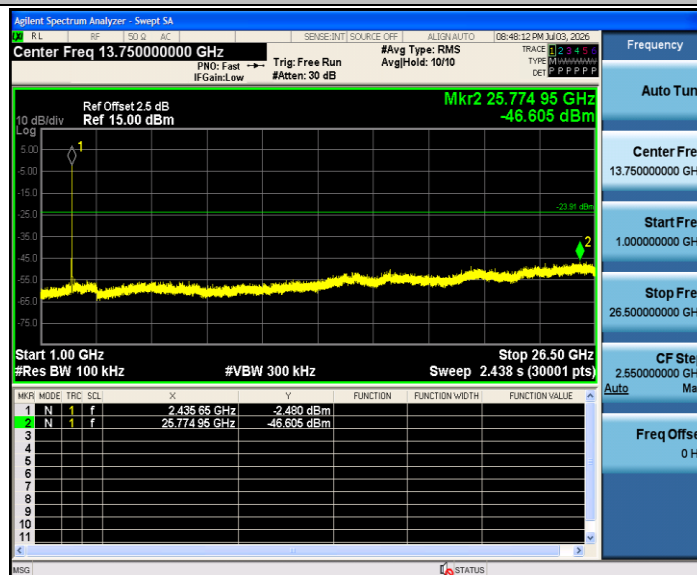
11N20SISO_Ant1_2437_0~Reference



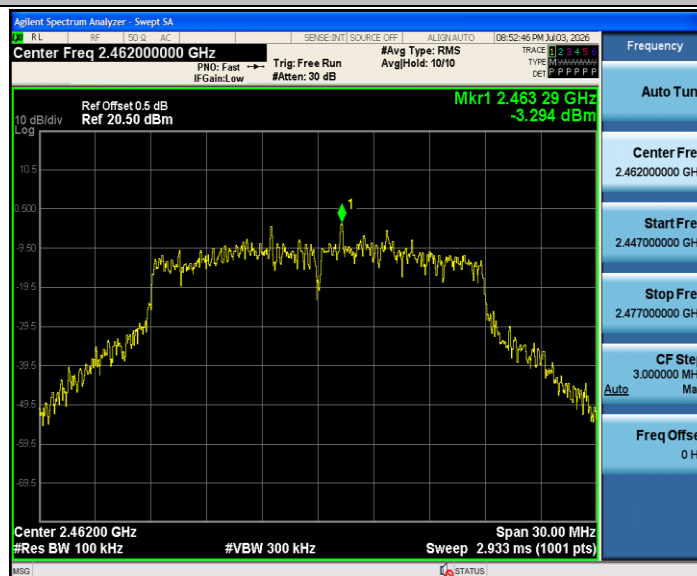
11N20SISO_Ant1_2437_30~1000



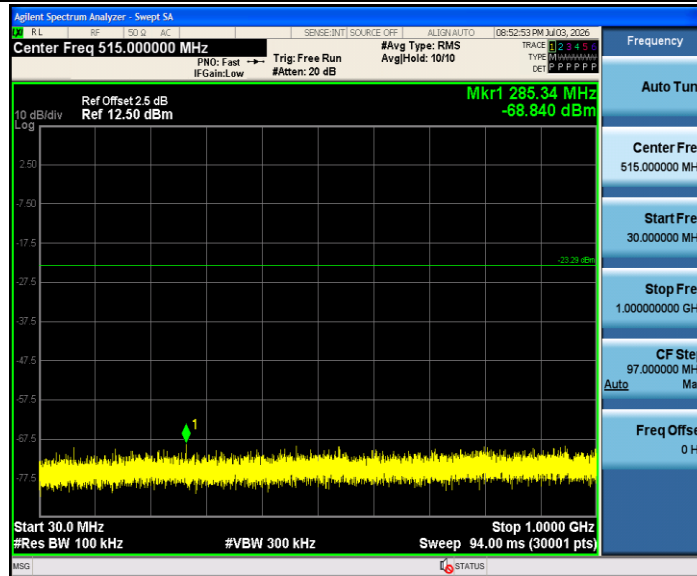
11N20SISO_Ant1_2437_1000~26500



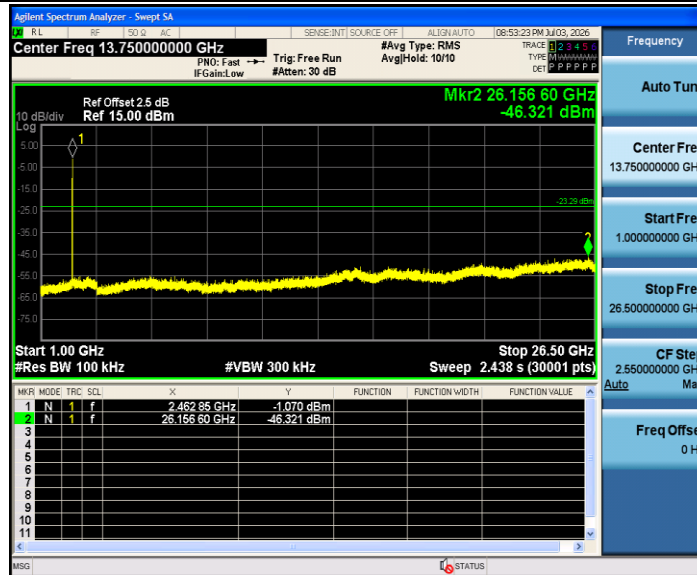
11N20SISO_Ant1_2462_0~Reference



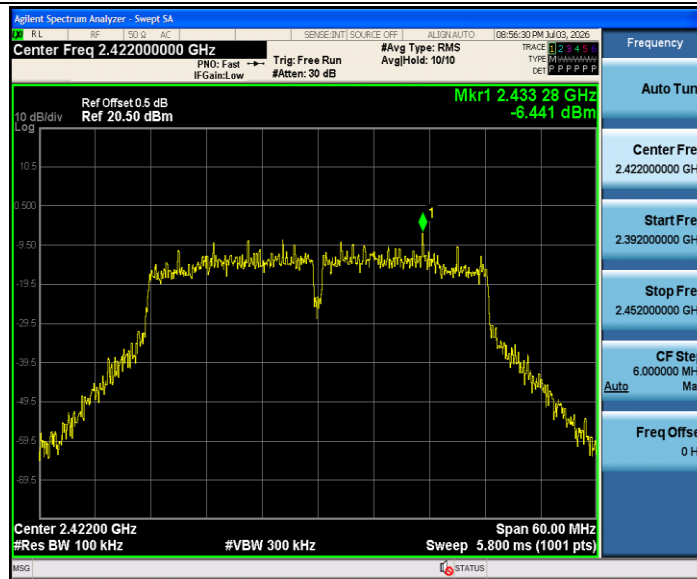
11N20SISO_Ant1_2462_30~1000



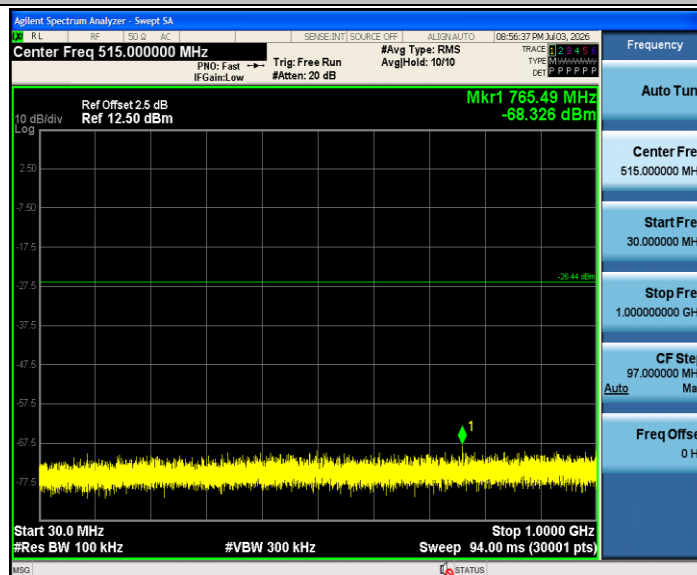
11N20SISO_Ant1_2462_1000~26500



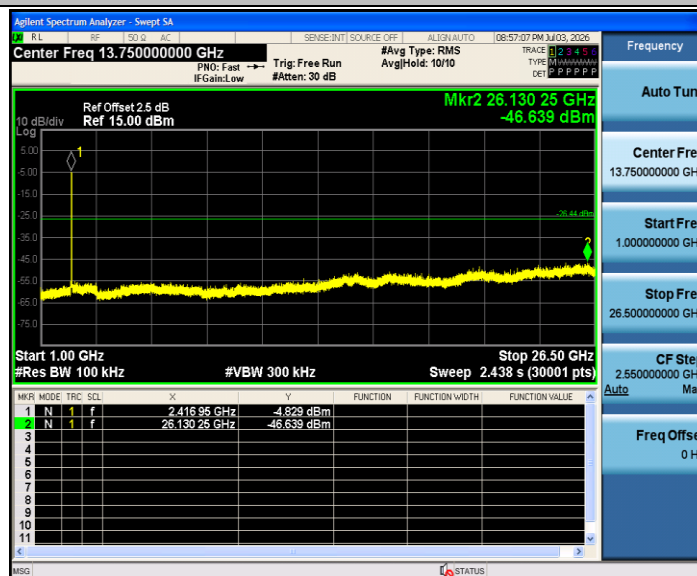
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



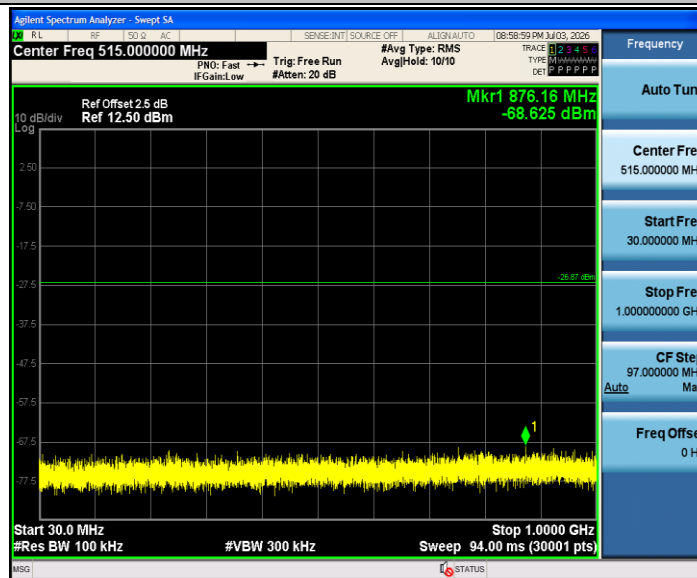
11N40SISO_Ant1_2422_1000~26500



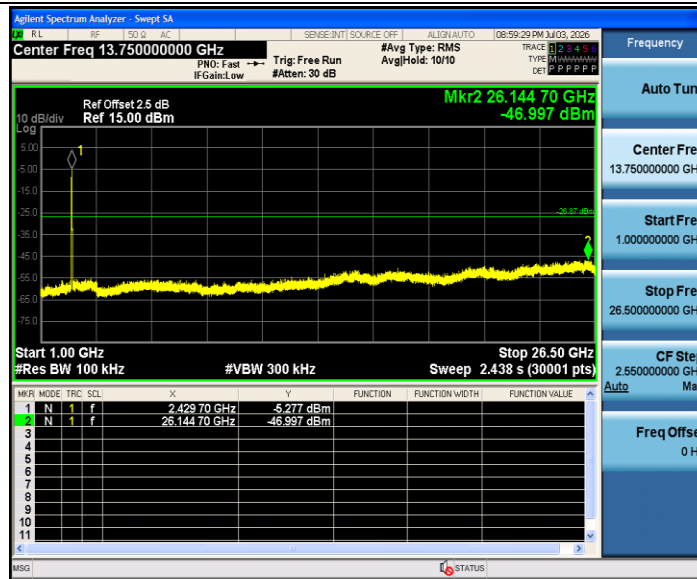
11N40SISO_Ant1_2437_0~Reference



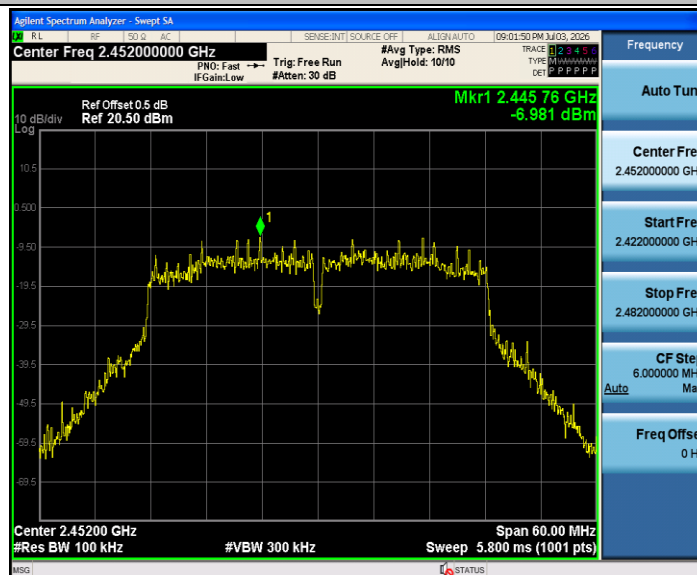
11N40SISO_Ant1_2437_30~1000



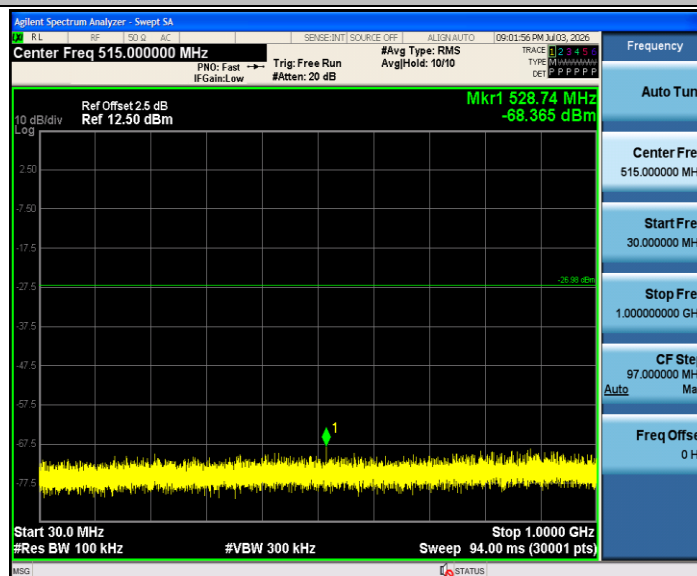
11N40SISO_Ant1_2437_1000~26500



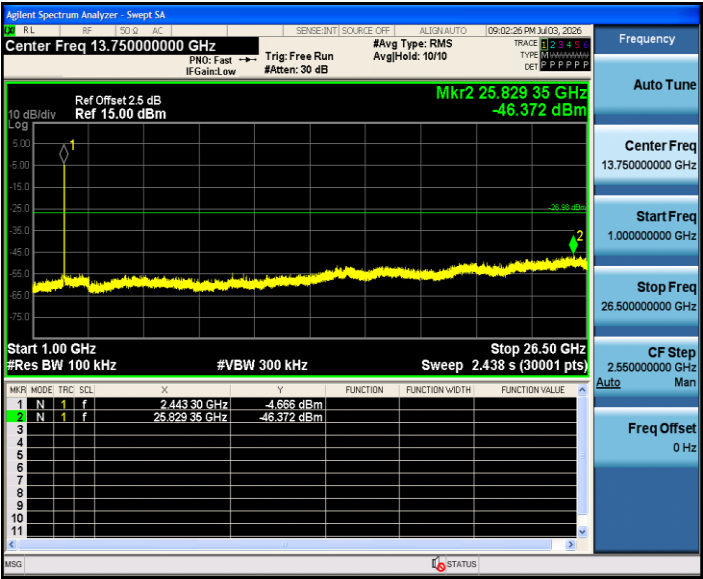
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



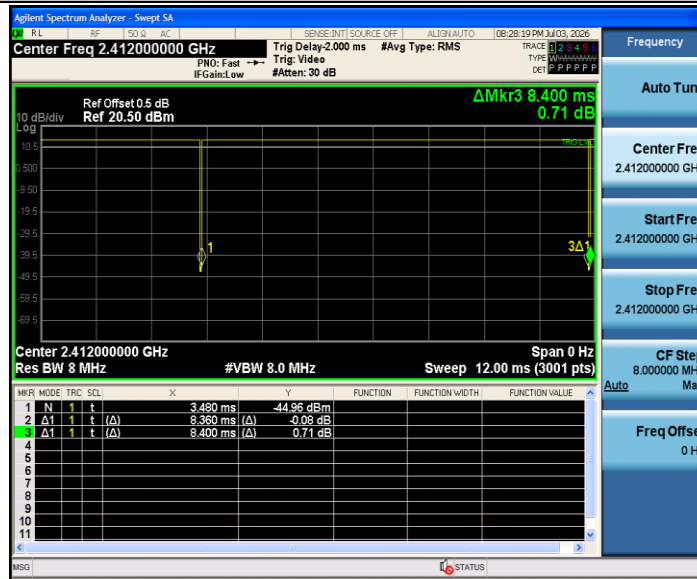
Appendix G: Duty Cycle

Test Result

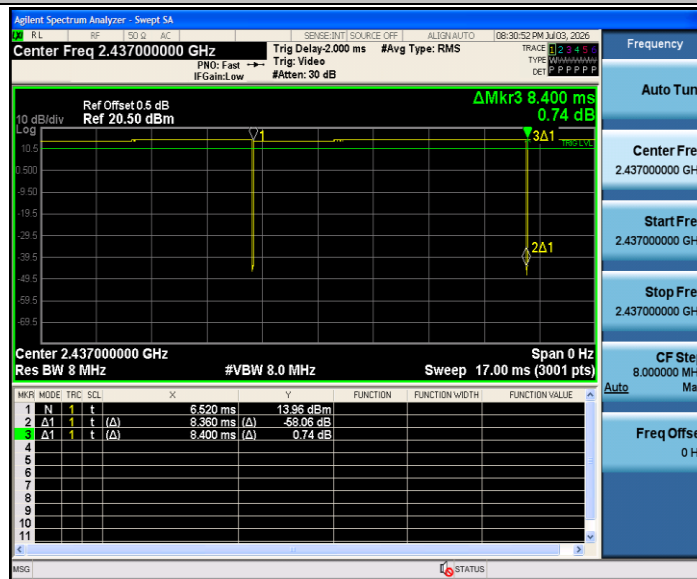
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.36	8.40	99.52	0.02	0.12
		2437	8.36	8.40	99.52	0.02	0.12
		2462	8.35	8.39	99.52	0.02	0.12
11G	Ant1	2412	0.15	0.20	75.00	1.25	6.67
		2437	0.15	0.20	75.00	1.25	6.67
		2462	0.14	0.19	73.68	1.33	7.14
11N20SISO	Ant1	2412	0.17	0.22	77.27	1.12	5.88
		2437	0.18	0.22	81.82	0.87	5.56
		2462	0.18	0.22	81.82	0.87	5.56
11N40SISO	Ant1	2422	0.18	0.23	78.26	1.06	5.56
		2437	0.18	0.22	81.82	0.87	5.56
		2452	0.18	0.23	78.26	1.06	5.56

Test Graphs

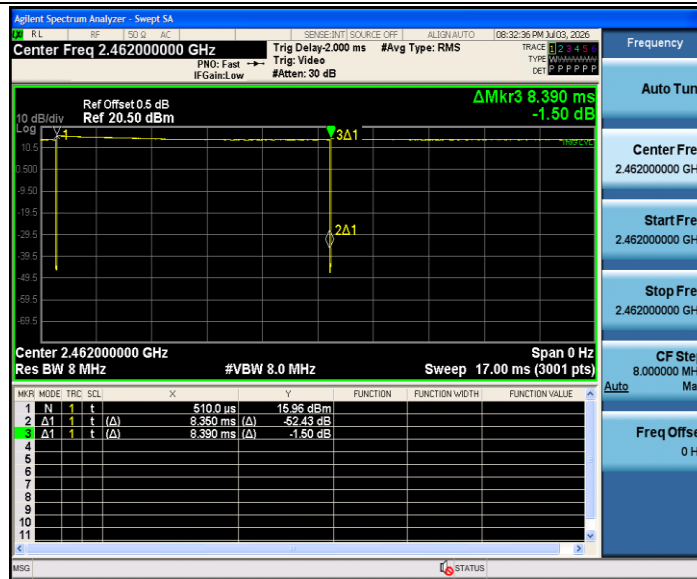
11B_Ant1_2412



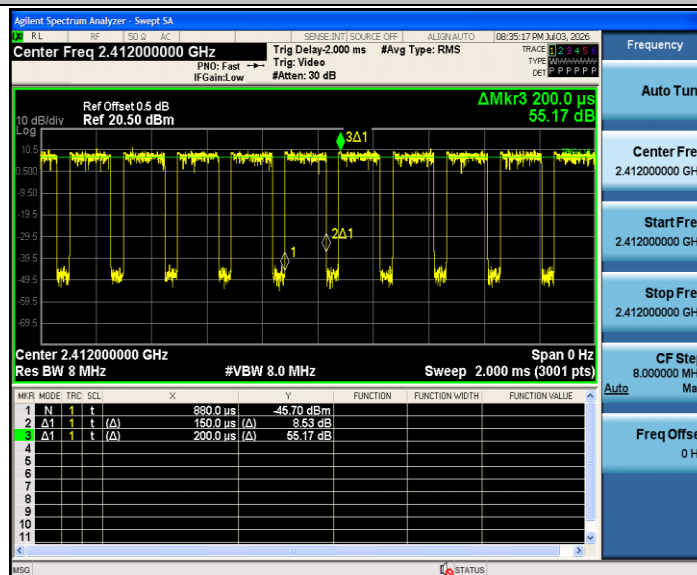
11B_Ant1_2437



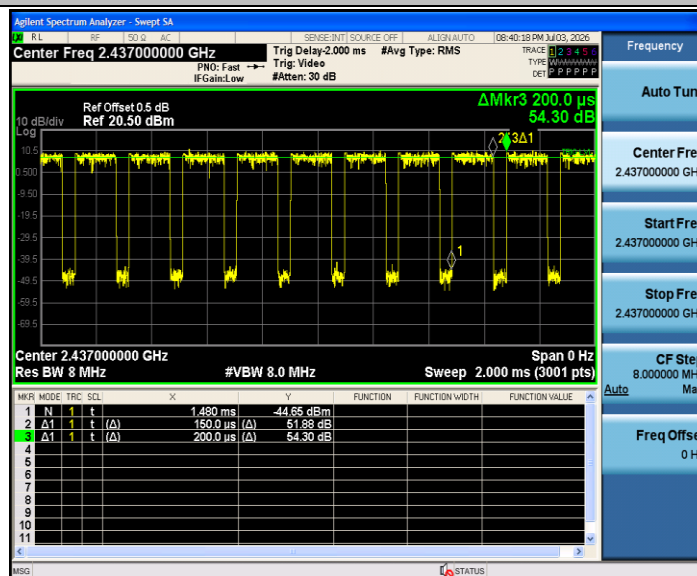
11B_Ant1_2462



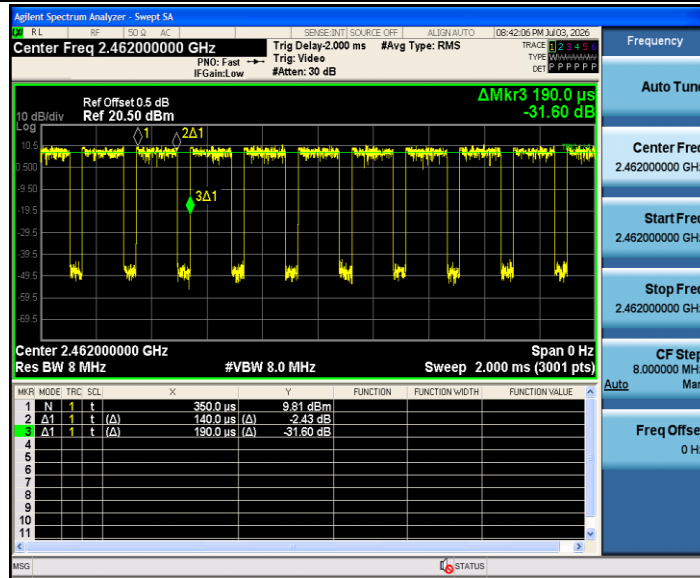
11G_Ant1_2412



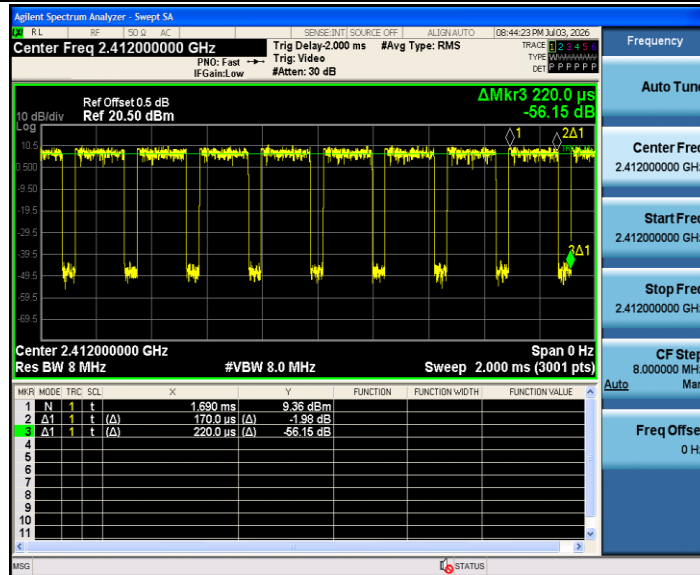
11G_Ant1_2437



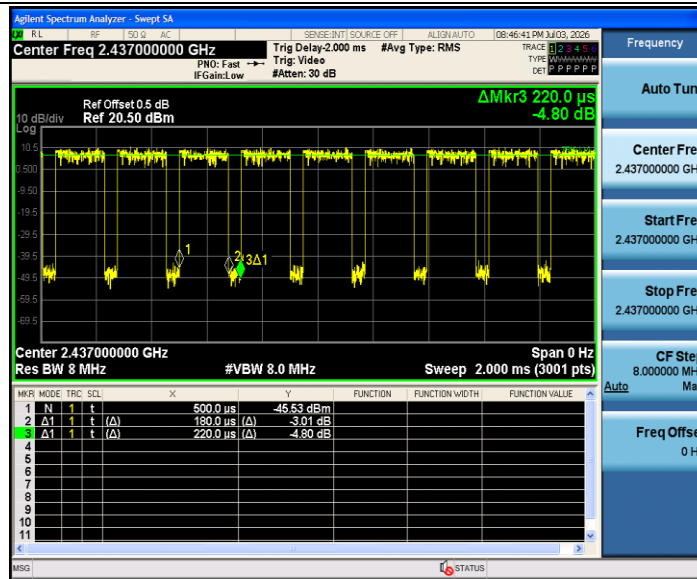
11G_Ant1_2462



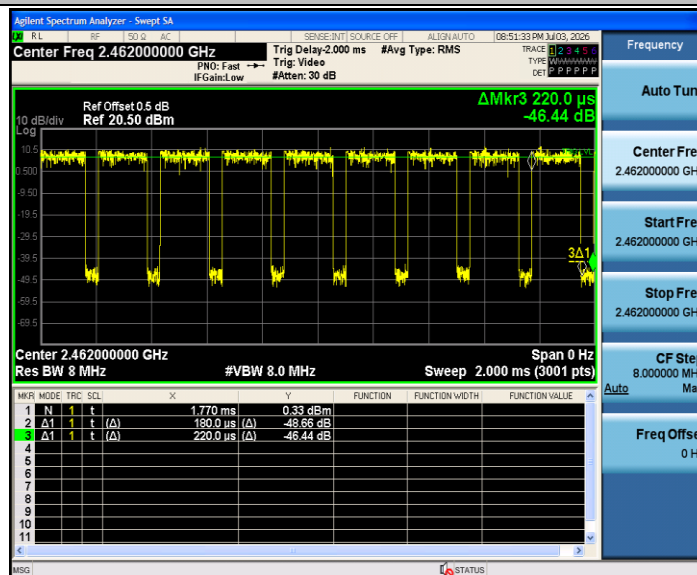
11N20SISO_Ant1_2412



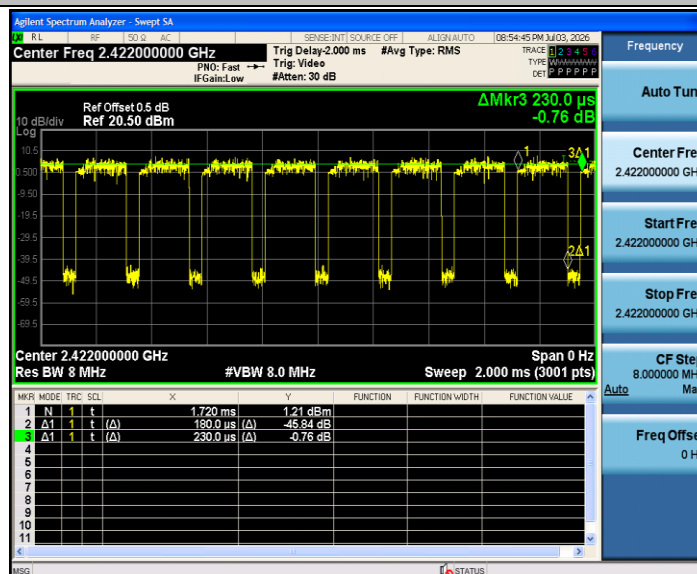
11N20SISO_Ant1_2437



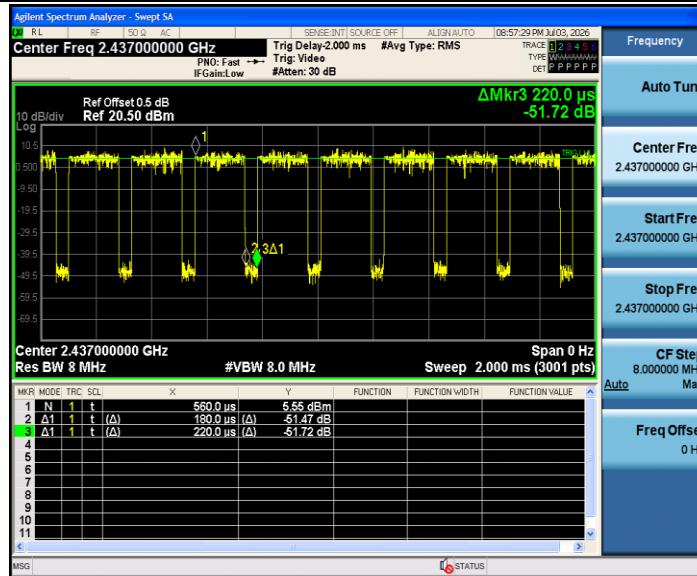
11N20SISO_Ant1_2462



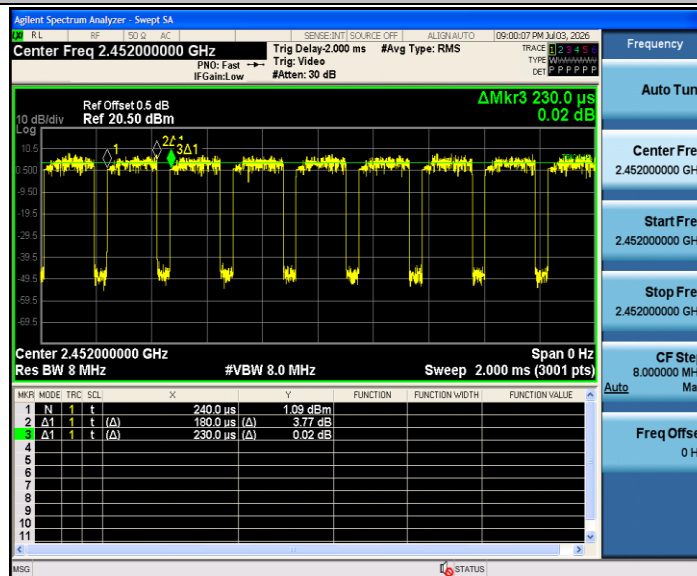
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix H: Emissions in Restricted Bands

Test Result

TestMod e	Antenn a	ChNam e	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-60.02	2.00	0.02	37.20	≤54	PASS
				AV	2386.190	-51.58	2.00	0.02	45.64	≤54	PASS
				AV	2390.000	-55.58	2.00	0.02	41.64	≤54	PASS
				Peak	2310.000	-52.58	2.00	0.00	44.62	≤74	PASS
				Peak	2386.060	-45.19	2.00	0.00	52.01	≤74	PASS
				Peak	2390.000	-47.3	2.00	0.00	49.90	≤74	PASS
		High	2462	AV	2483.500	-53.28	2.00	0.02	43.94	≤54	PASS
				AV	2488.070	-51.93	2.00	0.02	45.29	≤54	PASS
				AV	2500.000	-58.18	2.00	0.02	39.04	≤54	PASS
				Peak	2483.500	-47.42	2.00	0.00	49.78	≤74	PASS
				Peak	2488.070	-43.77	2.00	0.00	53.43	≤74	PASS
				Peak	2500.000	-49.46	2.00	0.00	47.74	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-60.16	2.00	1.25	38.29	≤54	PASS
				AV	2384.500	-58.89	2.00	1.25	39.56	≤54	PASS
				AV	2390.000	-59.35	2.00	1.25	39.10	≤54	PASS
				Peak	2310.000	-50.04	2.00	0.00	47.16	≤74	PASS
				Peak	2360.970	-49.27	2.00	0.00	47.93	≤74	PASS
				Peak	2390.000	-50.87	2.00	0.00	46.33	≤74	PASS
		High	2462	AV	2483.500	-59.38	2.00	1.33	39.15	≤54	PASS
				AV	2484.550	-58.48	2.00	1.33	40.05	≤54	PASS
				AV	2500.000	-59.28	2.00	1.33	39.25	≤54	PASS
				Peak	2483.500	-50.58	2.00	0.00	46.62	≤74	PASS
				Peak	2484.220	-49.18	2.00	0.00	48.02	≤74	PASS
				Peak	2500.000	-50.2	2.00	0.00	47.00	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-60.37	2.00	1.12	37.95	≤54	PASS
				AV	2389.050	-58.7	2.00	1.12	39.62	≤54	PASS
				AV	2390.000	-59.73	2.00	1.12	38.59	≤54	PASS
				Peak	2310.000	-52.43	2.00	0.00	44.77	≤74	PASS
				Peak	2377.480	-48.74	2.00	0.00	48.46	≤74	PASS
				Peak	2390.000	-50.68	2.00	0.00	46.52	≤74	PASS
		High	2462	AV	2483.500	-59.11	2.00	0.87	38.96	≤54	PASS
				AV	2492.030	-58.33	2.00	0.87	39.74	≤54	PASS
				AV	2500.000	-59.62	2.00	0.87	38.45	≤54	PASS
				Peak	2483.500	-51.36	2.00	0.00	45.84	≤74	PASS
				Peak	2485.320	-49.23	2.00	0.00	47.97	≤74	PASS
				Peak	2500.000	-51.48	2.00	0.00	45.72	≤74	PASS

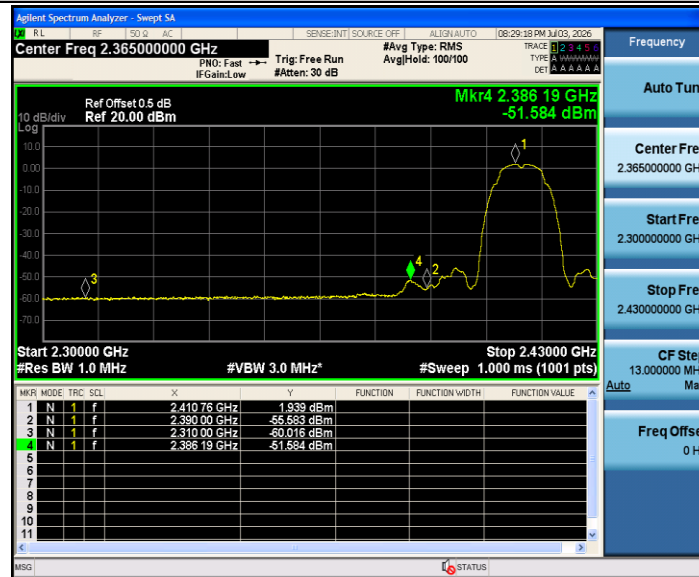
11N40SI SO	Ant1	Low	2422	AV	2310.000	-60.53	2.00	1.06	37.73	≤54	PASS
				AV	2386.250	-58.13	2.00	1.06	40.13	≤54	PASS
				AV	2390.000	-58.65	2.00	1.06	39.61	≤54	PASS
				Peak	2310.000	-52.56	2.00	0.00	44.64	≤74	PASS
				Peak	2387.750	-47.4	2.00	0.00	49.80	≤74	PASS
				Peak	2390.000	-48.33	2.00	0.00	48.87	≤74	PASS
		High	2452	AV	2483.500	-58.24	2.00	1.06	40.02	≤54	PASS
				AV	2483.875	-58.07	2.00	1.06	40.19	≤54	PASS
				AV	2500.000	-58.02	2.00	1.06	40.24	≤54	PASS
				Peak	2483.500	-49.53	2.00	0.00	47.67	≤74	PASS
				Peak	2486.250	-48.05	2.00	0.00	49.15	≤74	PASS
				Peak	2500.000	-52.18	2.00	0.00	45.02	≤74	PASS

Note:

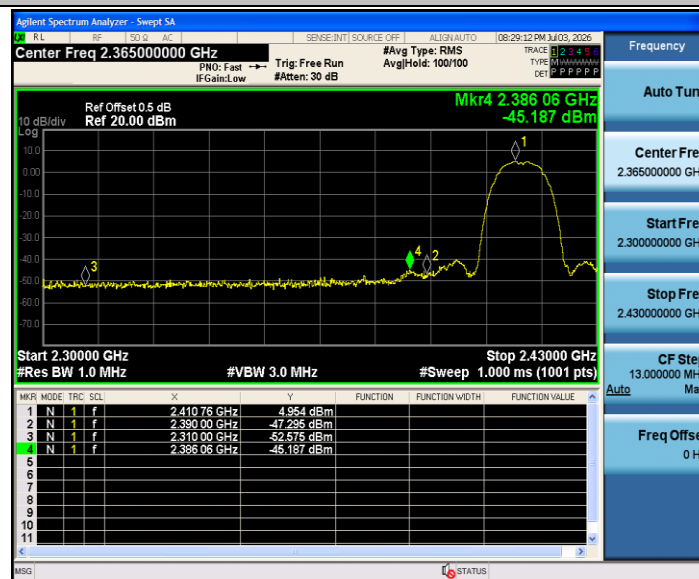
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

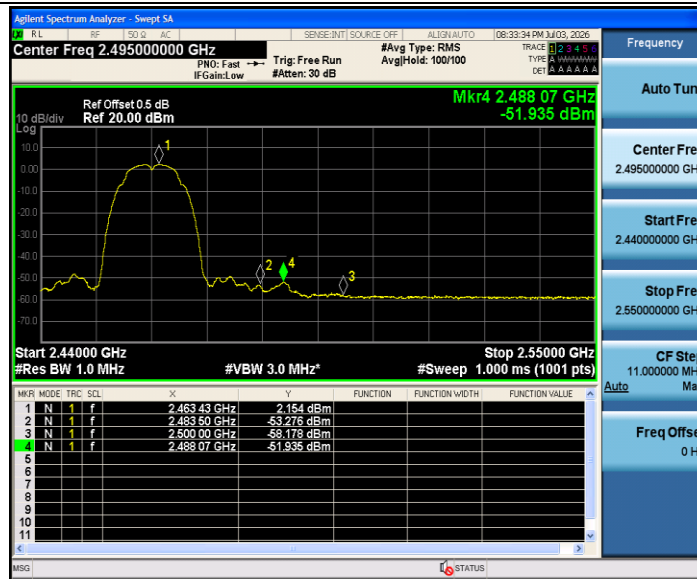
11B_Ant1_Low_2412_AV



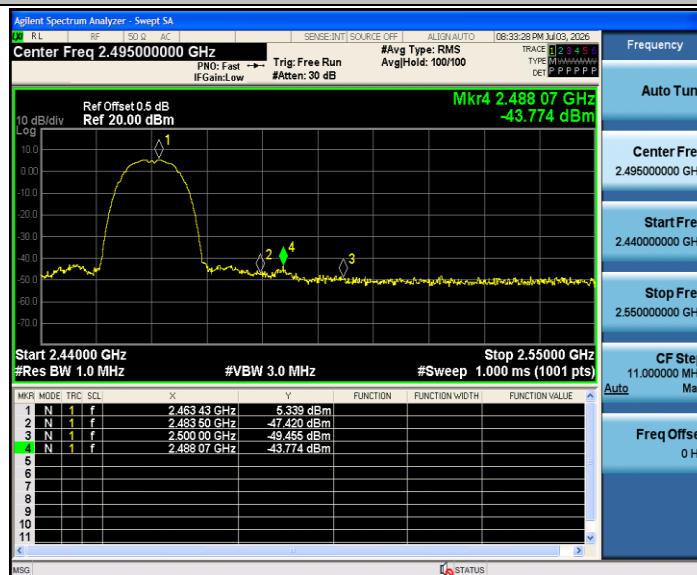
11B_Ant1_Low_2412_Peak



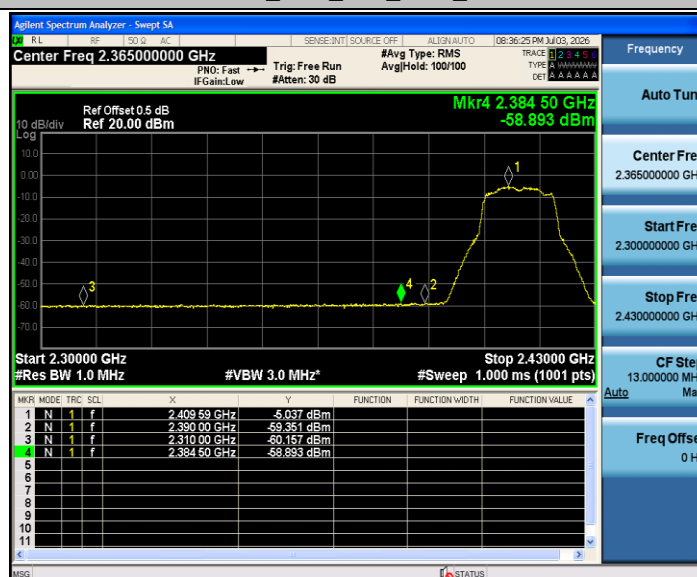
11B_Ant1_High_2462_AV



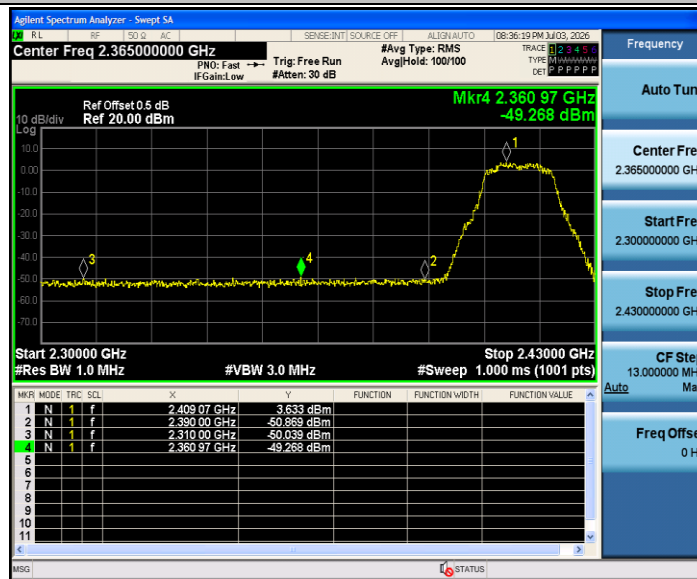
11B_Ant1_High_2462_Peak



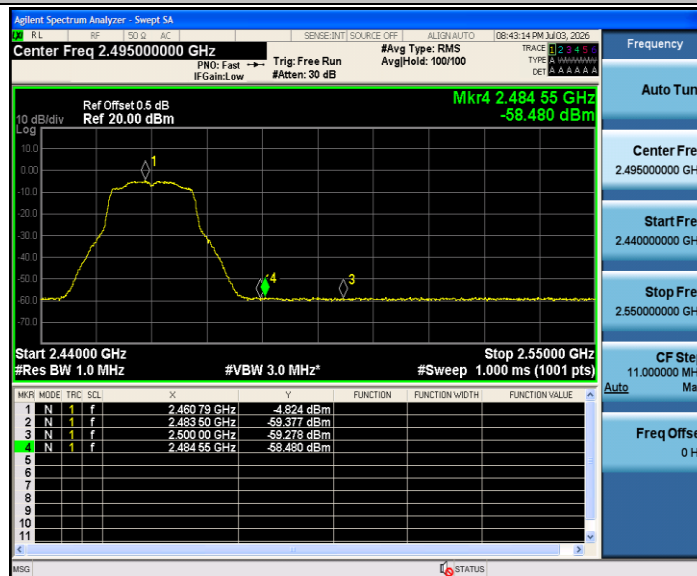
11G_Ant1_Low_2412_AV



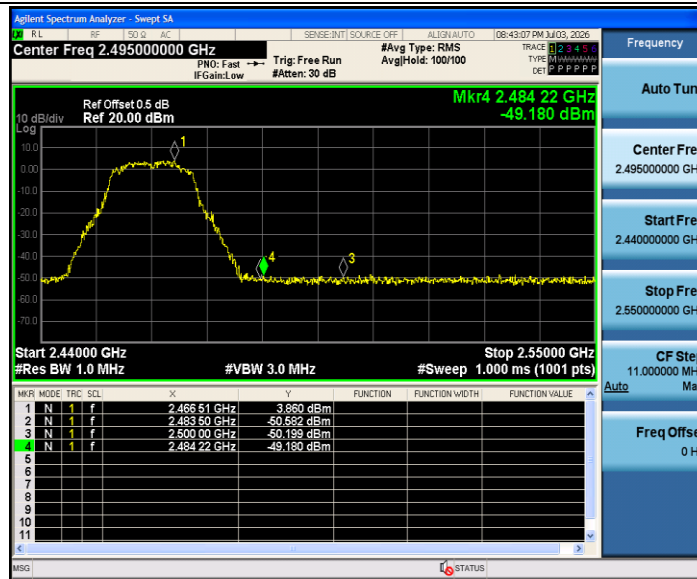
11G_Ant1_Low_2412_Peak



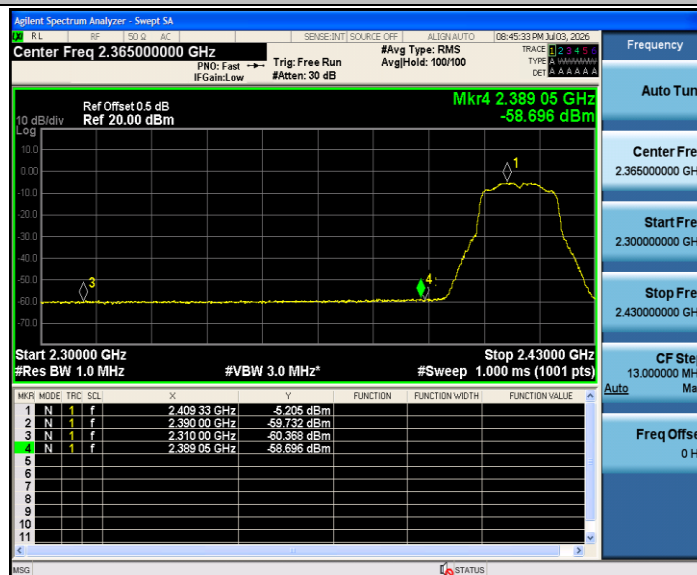
11G_Ant1_High_2462_AV



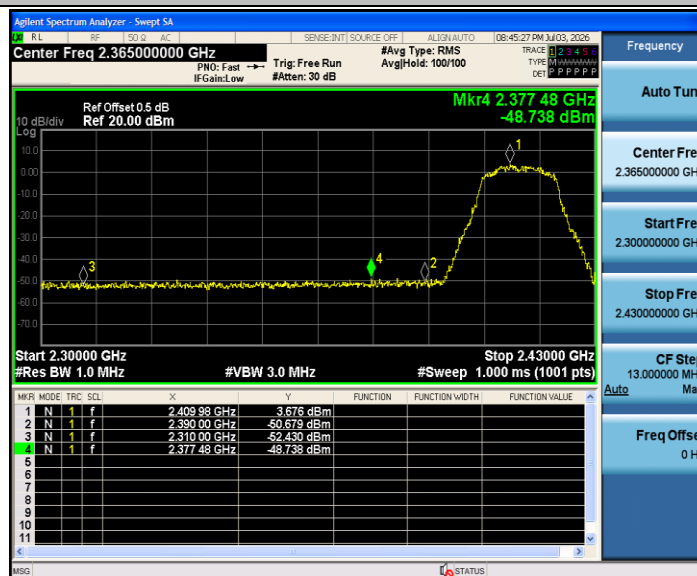
11G_Ant1_High_2462_Peak



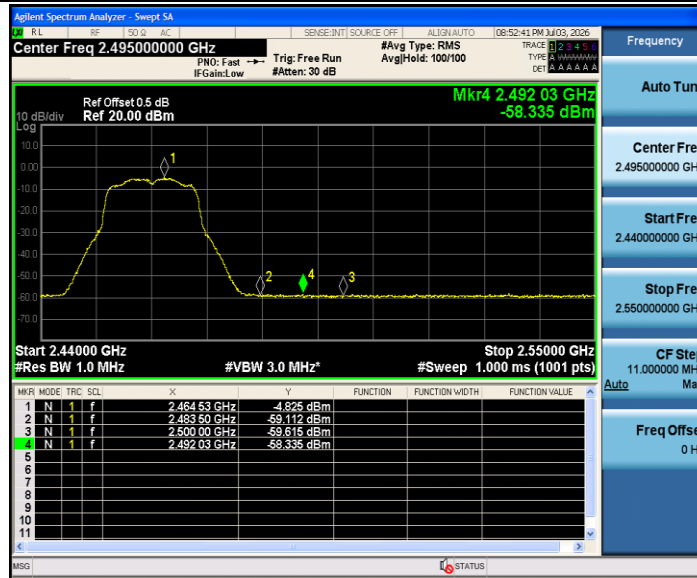
11N20SISO_Ant1_Low_2412_AV



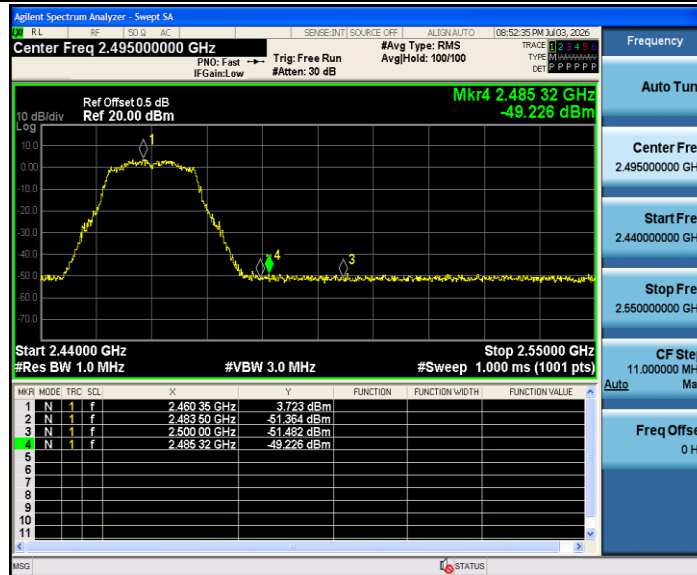
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



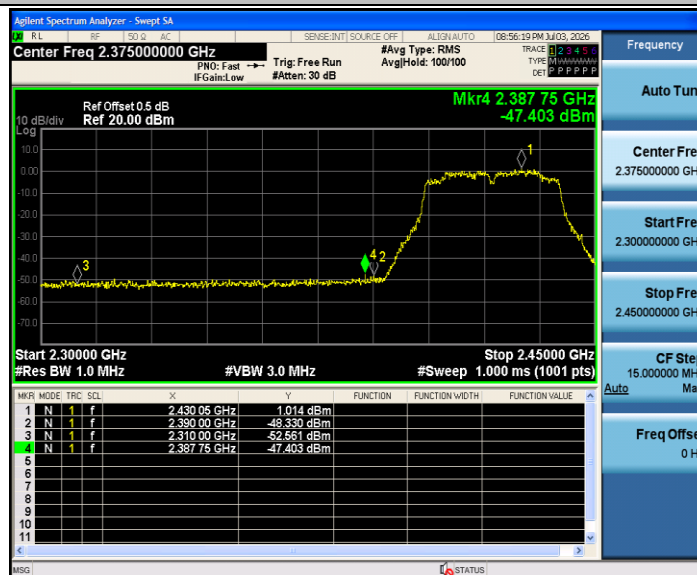
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



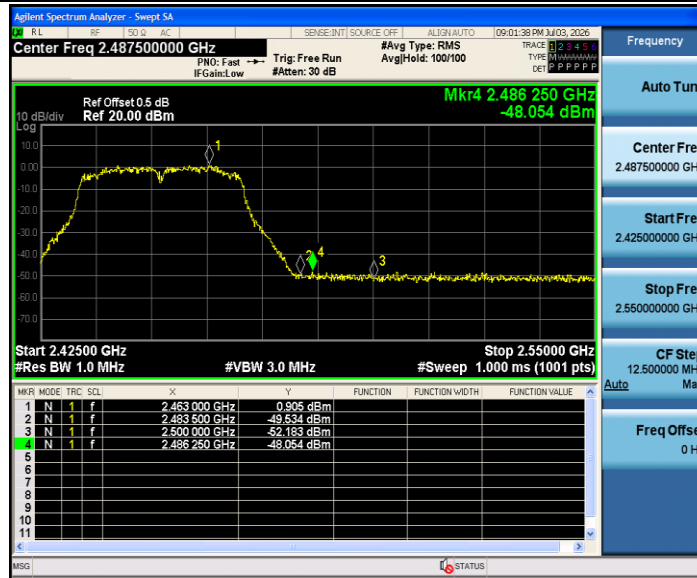
11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak



FCC Appendix RF Test Data for 2.4GWIFI Antenna 2

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	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant2	2412	15.920	2404.000	2419.920	0.5	PASS
		2437	15.720	2429.280	2445.000	0.5	PASS
		2462	16.000	2454.000	2470.000	0.5	PASS
11N20SISO	Ant2	2412	16.280	2404.080	2420.360	0.5	PASS
		2437	16.640	2428.440	2445.080	0.5	PASS
		2462	16.600	2453.960	2470.560	0.5	PASS
11N40SISO	Ant2	2422	35.600	2404.560	2440.160	0.5	PASS
		2437	35.520	2419.480	2455.000	0.5	PASS
		2452	35.280	2434.640	2469.920	0.5	PASS

Test Graphs

11B_Ant2_2412



11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437

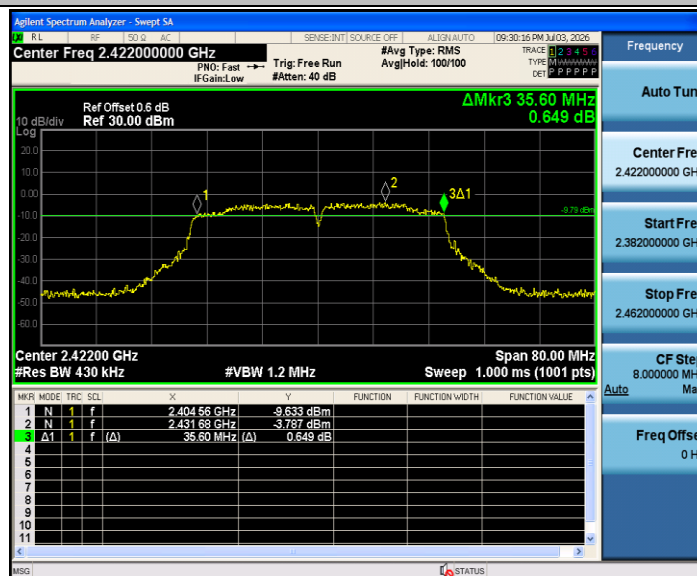




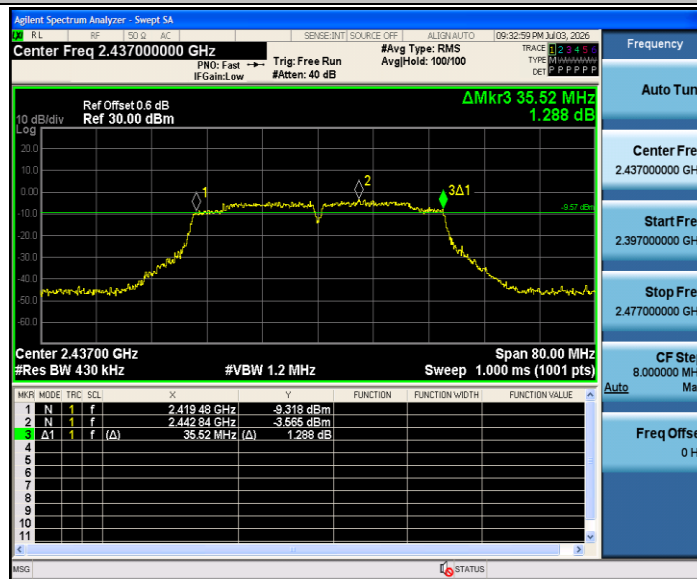
11N20SISO_Ant2_2462



11N40SISO_Ant2_2422



11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



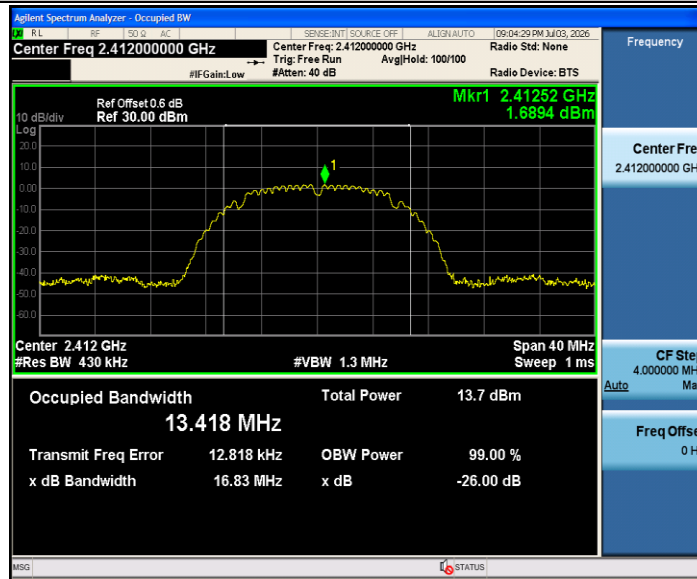
Appendix B: Occupied Channel Bandwidth

Test Result

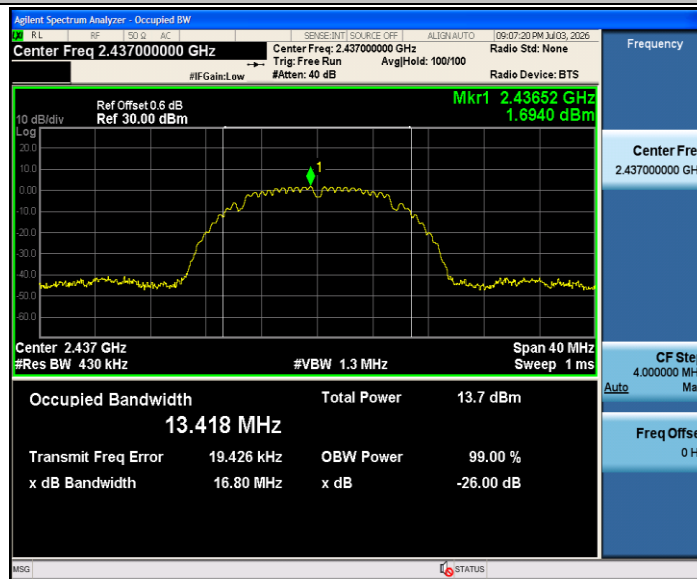
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.418	2405.3038	2418.7218	---	---
		2437	13.418	2430.3104	2443.7284	---	---
		2462	13.406	2455.3264	2468.7324	---	---
11G	Ant2	2412	16.847	2403.6051	2420.4521	---	---
		2437	16.739	2428.6721	2445.4111	---	---
		2462	16.840	2453.6120	2470.4520	---	---
11N20SISO	Ant2	2412	17.895	2403.0676	2420.9626	---	---
		2437	17.816	2428.1348	2445.9508	---	---
		2462	17.847	2453.1251	2470.9721	---	---
11N40SISO	Ant2	2422	36.062	2404.1290	2440.1910	---	---
		2437	36.022	2419.1506	2455.1726	---	---
		2452	36.068	2434.1309	2470.1989	---	---

Test Graphs

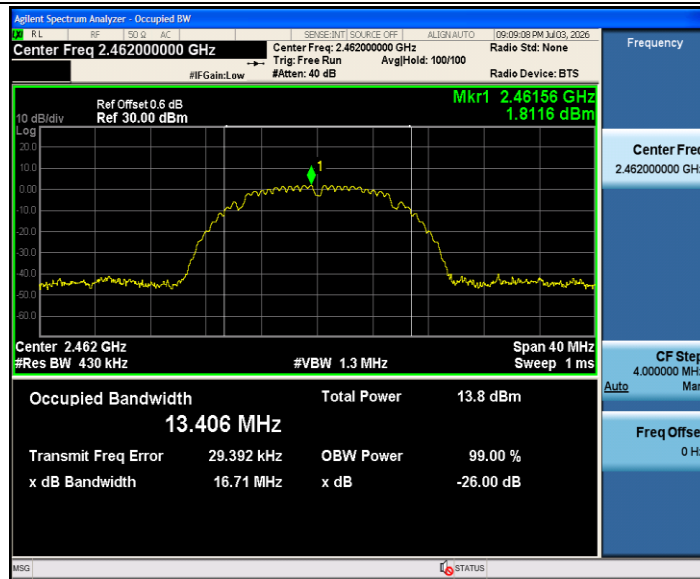
11B_Ant2_2412



11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437

