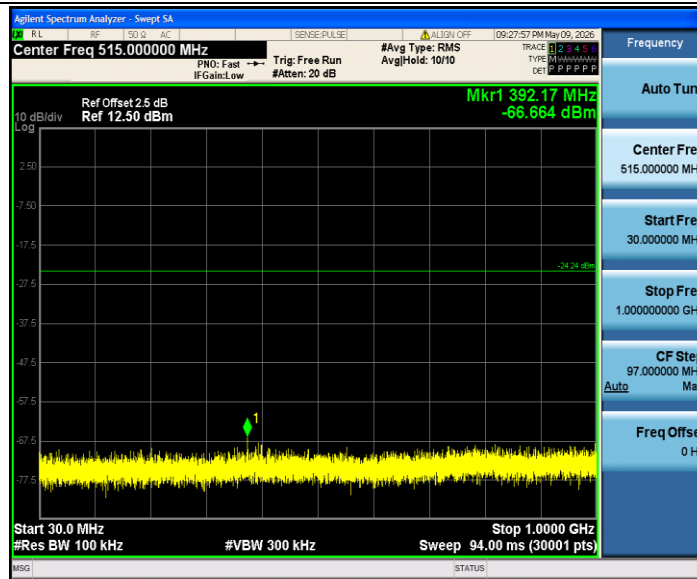
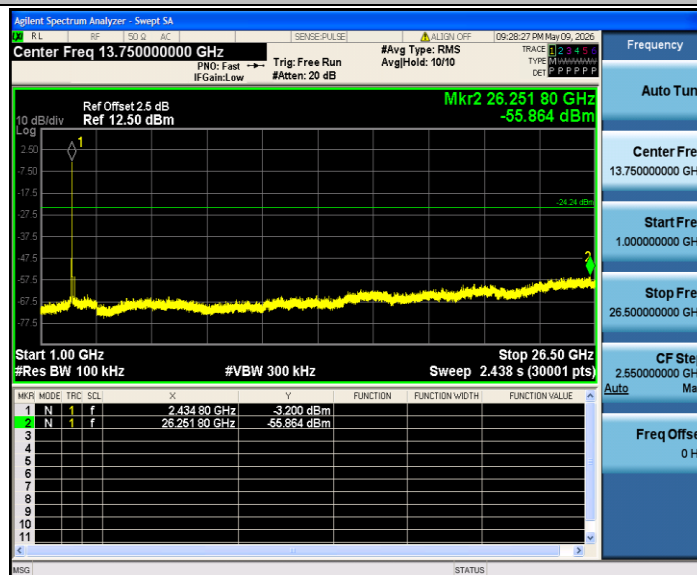
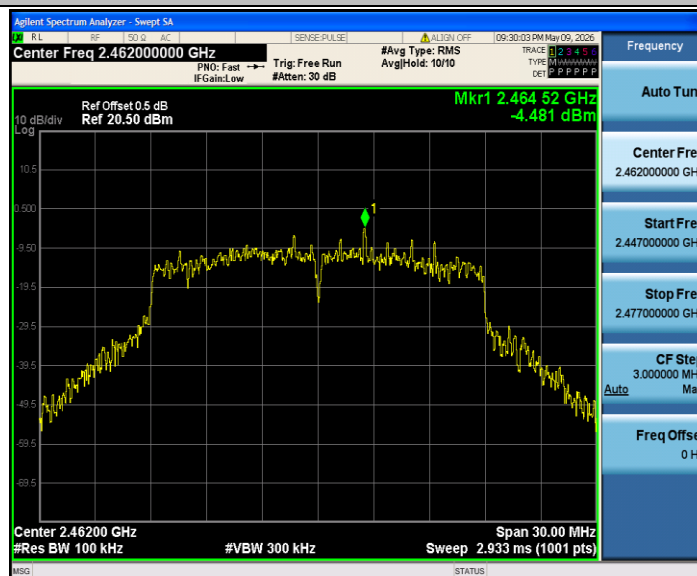




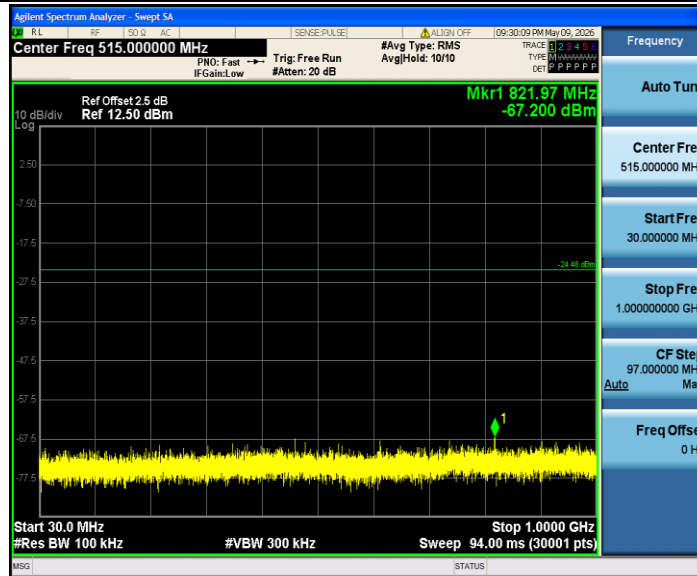
11N20SISO_Ant1_2437_1000~26500



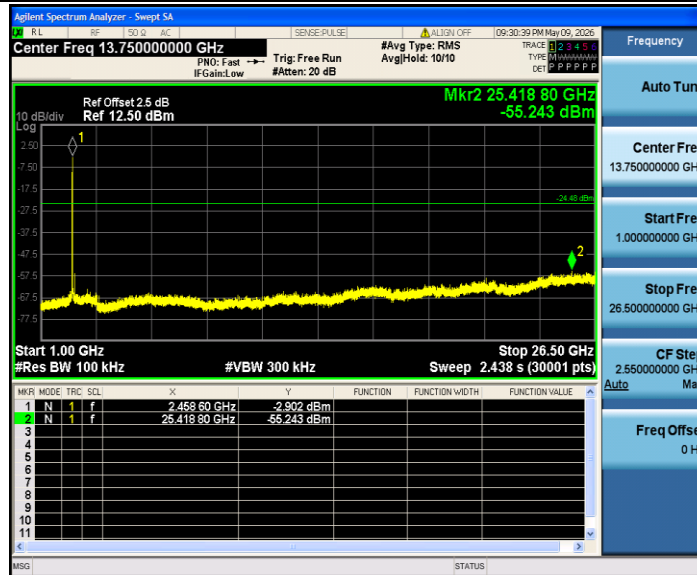
11N20SISO_Ant1_2462_0~Reference



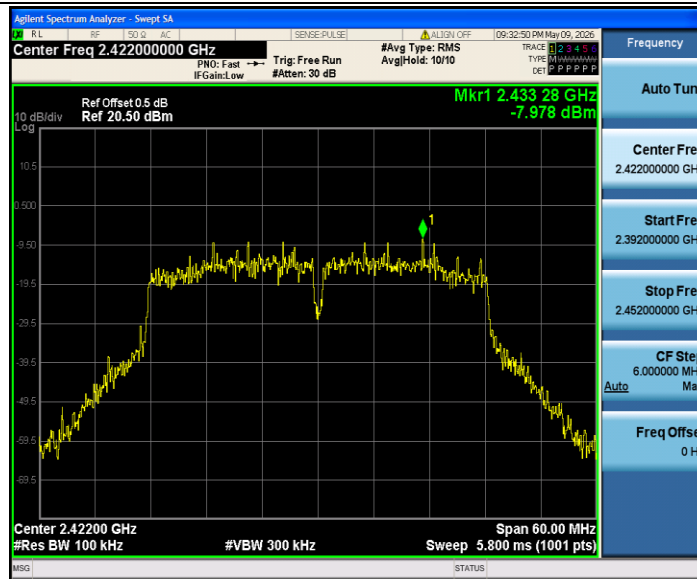
11N20SISO_Ant1_2462_30~1000



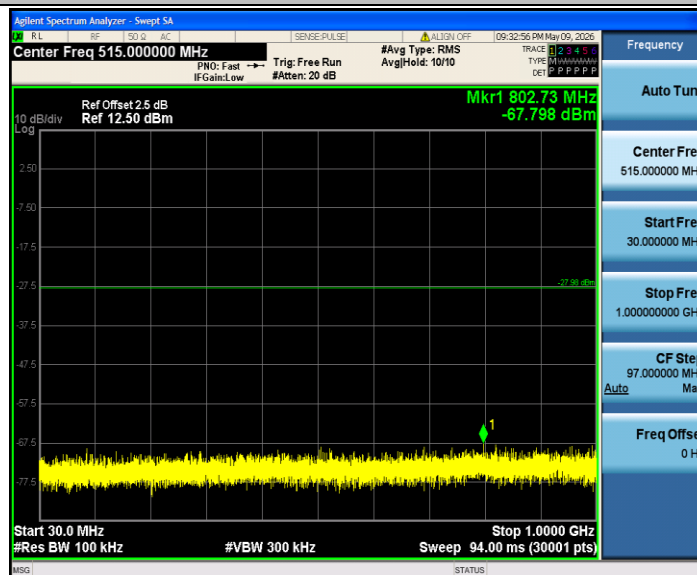
11N20SISO_Ant1_2462_1000~26500



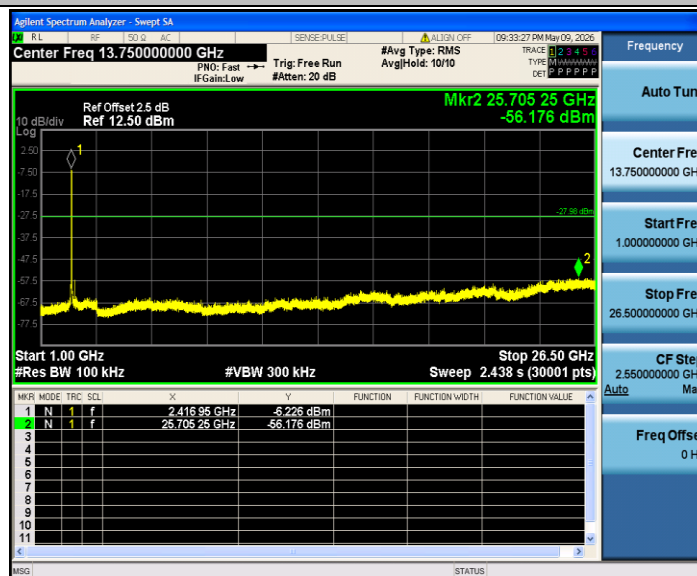
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



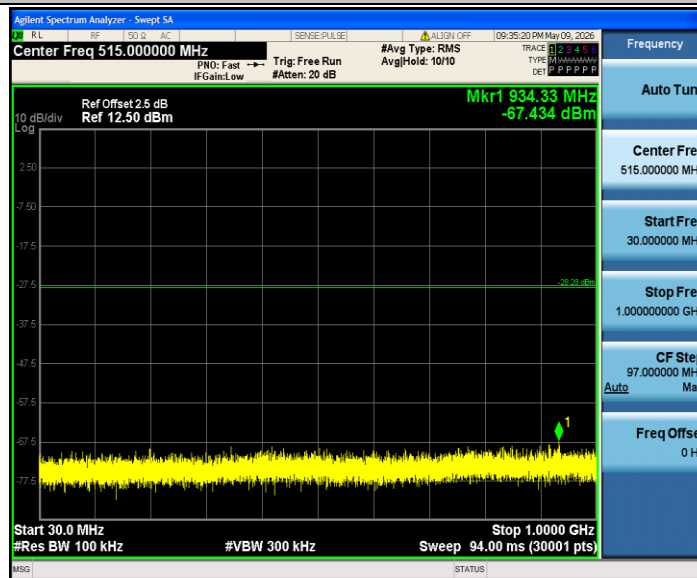
11N40SISO_Ant1_2422_1000~26500



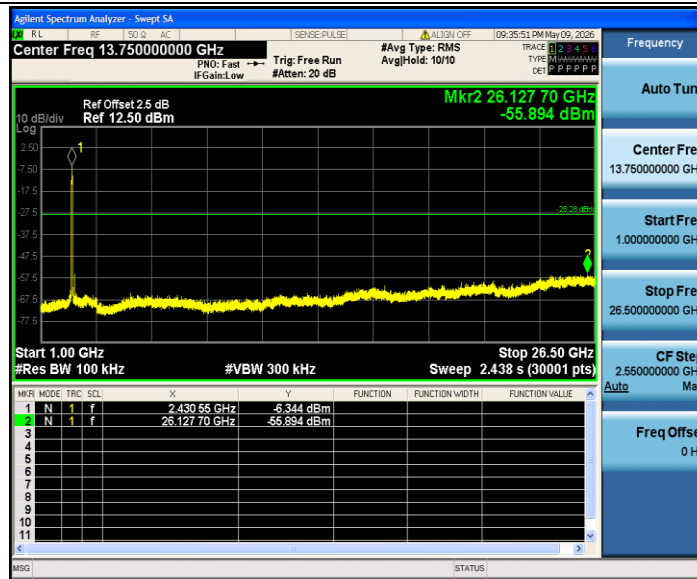
11N40SISO_Ant1_2437_0~Reference



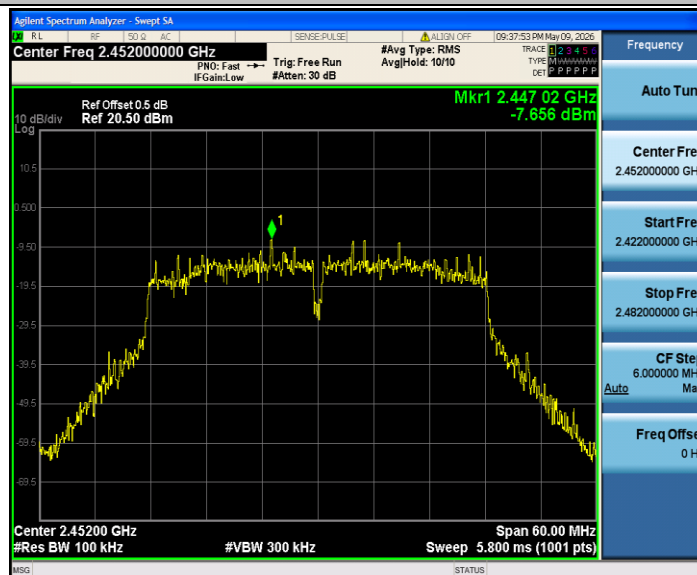
11N40SISO_Ant1_2437_30~1000



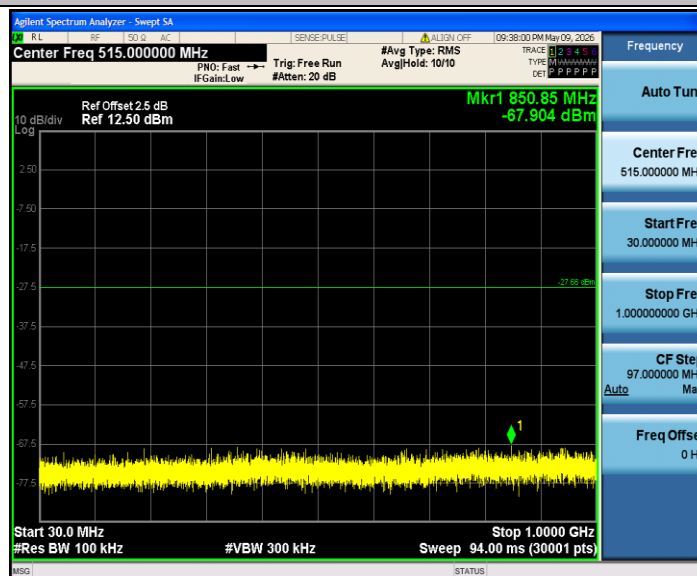
11N40SISO_Ant1_2437_1000~26500



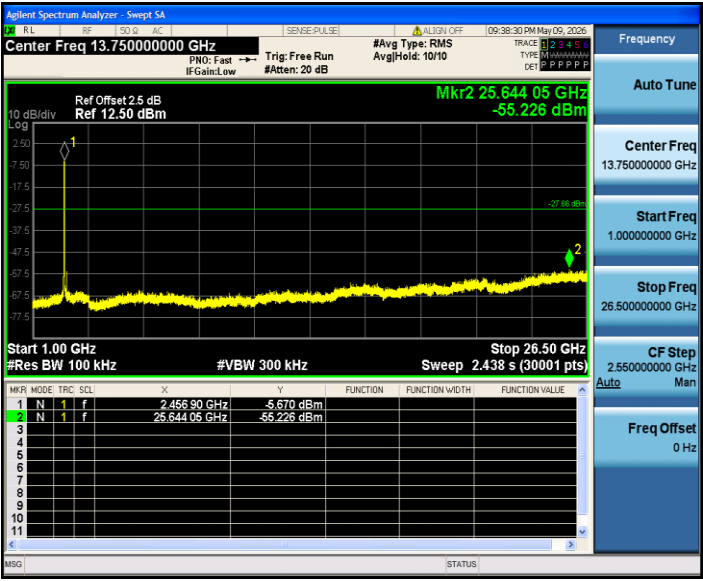
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



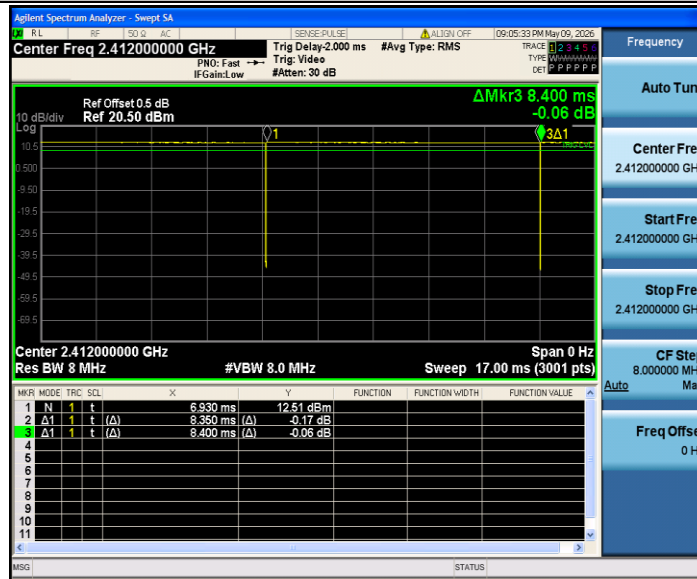
Appendix G: Duty Cycle

Test Result

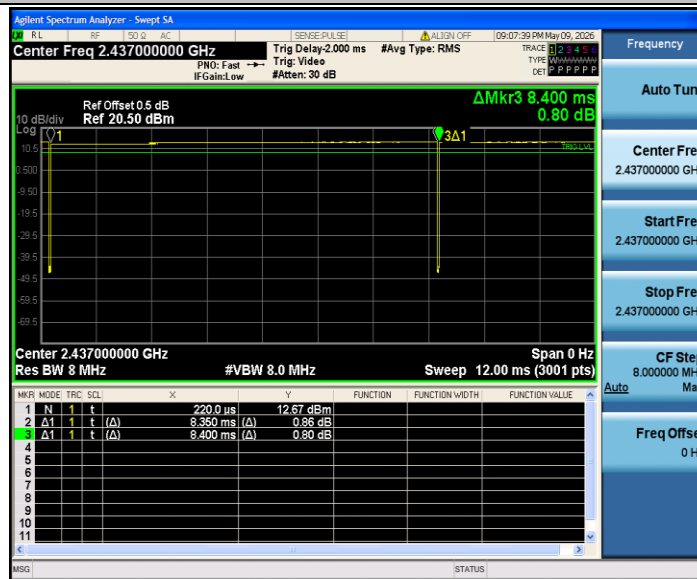
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.35	8.40	99.40	0.03	0.12
		2437	8.35	8.40	99.40	0.03	0.12
		2462	8.35	8.40	99.40	0.03	0.12
11G	Ant1	2412	0.14	0.19	73.68	1.33	7.14
		2437	0.15	0.20	75.00	1.25	6.67
		2462	0.15	0.20	75.00	1.25	6.67
11N20SISO	Ant1	2412	0.18	0.23	78.26	1.06	5.56
		2437	0.18	0.23	78.26	1.06	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	0.23	78.26	1.06	5.56
		2452	0.18	0.22	81.82	0.87	5.56

Test Graphs

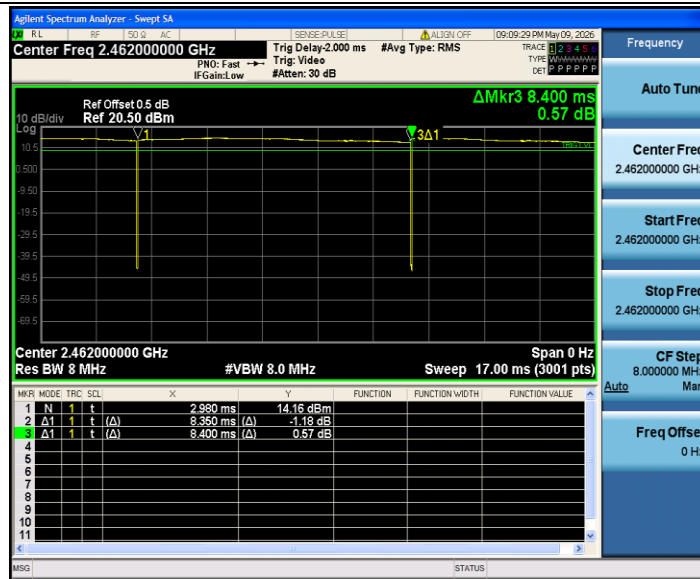
11B_Ant1_2412



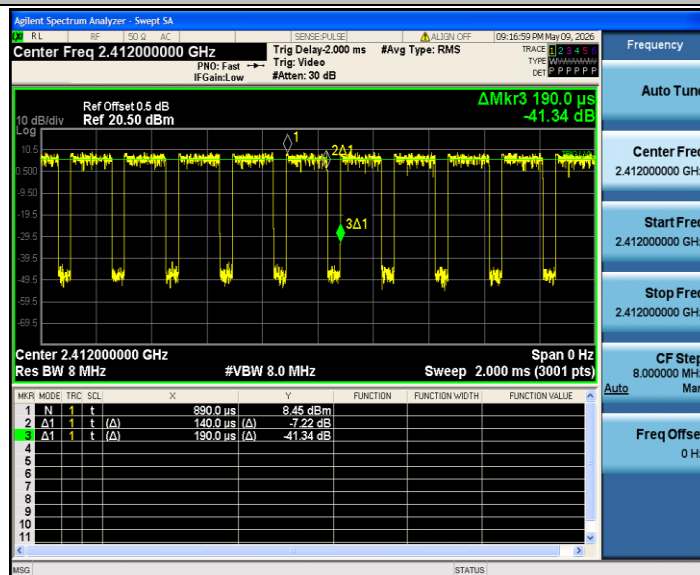
11B_Ant1_2437



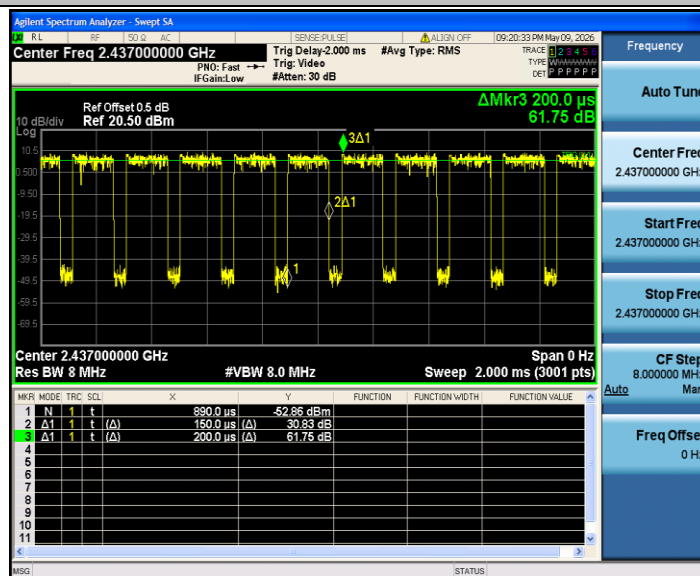
11B_Ant1_2462



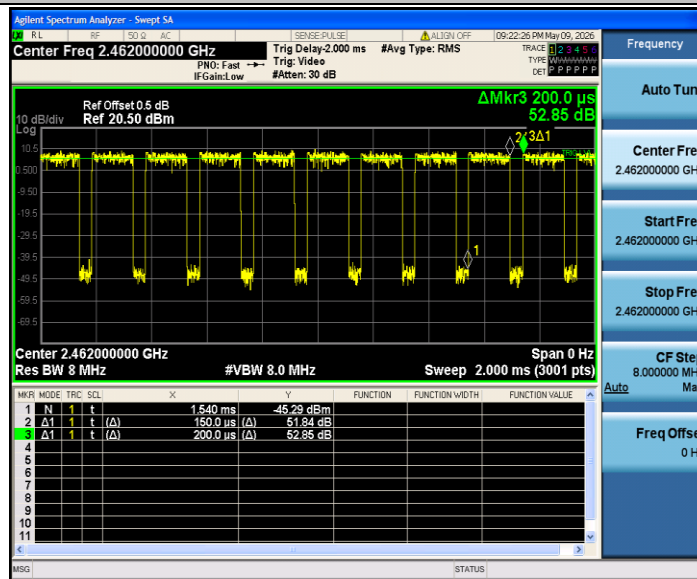
11G_Ant1_2412



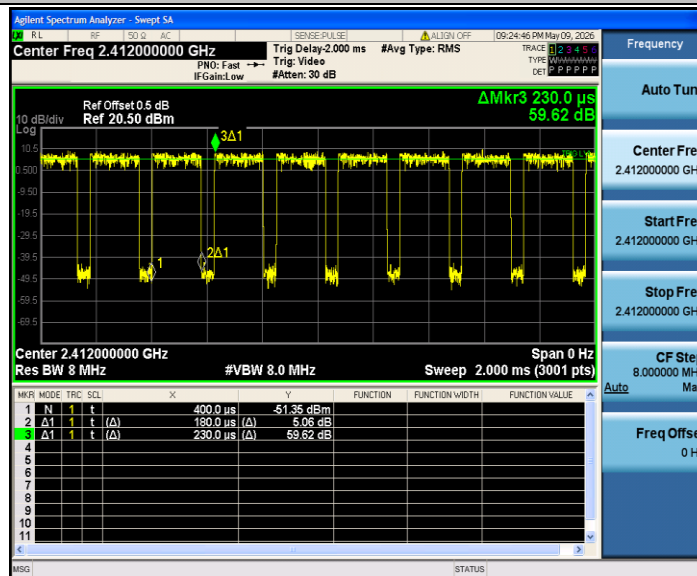
11G_Ant1_2437



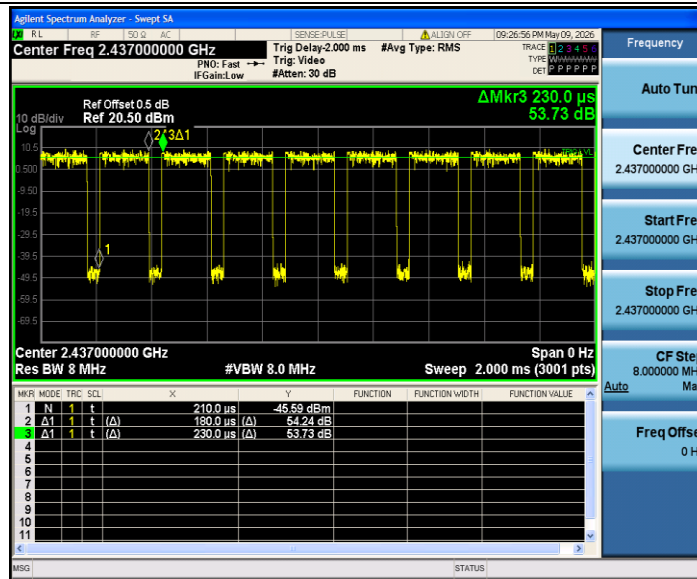
11G_Ant1_2462



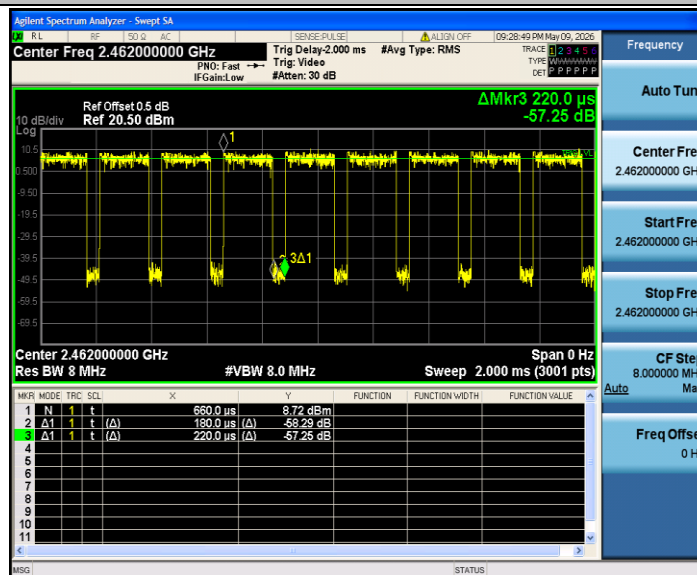
11N20SISO_Ant1_2412



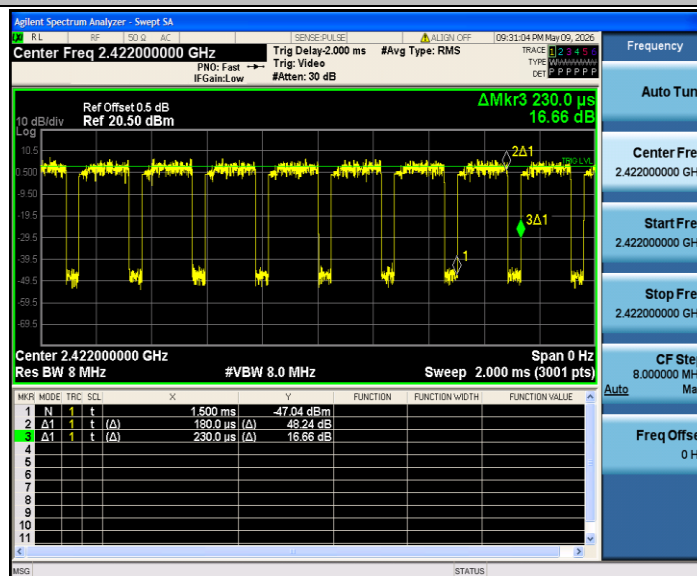
11N20SISO_Ant1_2437



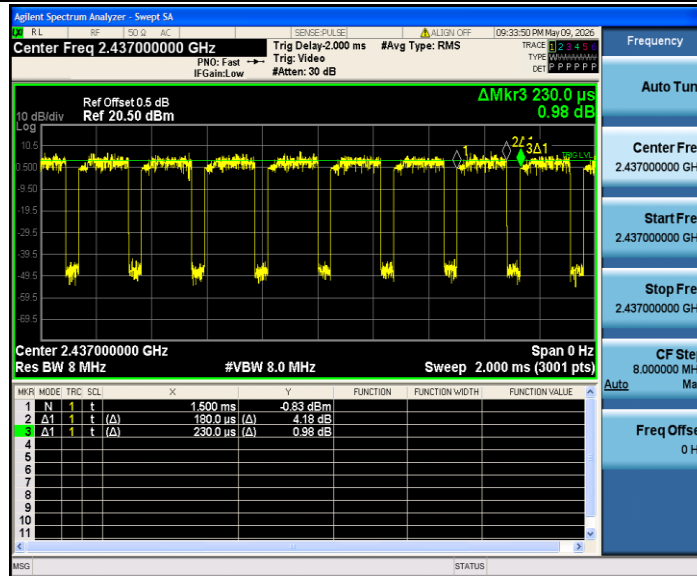
11N20SISO_Ant1_2462



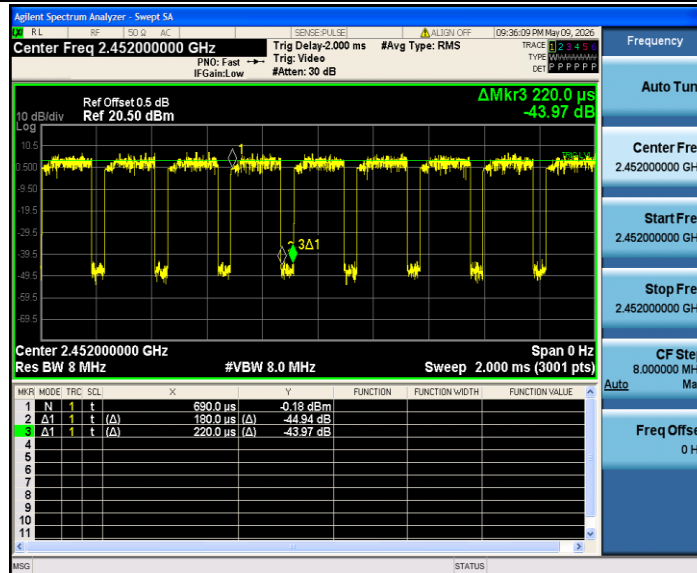
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix H: Emissions in Restricted Bands

Test Result

TestMod e	Antenn a	ChNam e	Frequen cy[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	-59.67	4.74	0.03	40.3	≤54	PASS
				AV	2389.440	-57.9	4.74	0.03	42.07	≤54	PASS
				AV	2390.000	-58.1	4.74	0.03	41.87	≤54	PASS
				Peak	2310.000	-51.62	4.74	0.00	48.32	≤74	PASS
				Peak	2361.750	-48.05	4.74	0.00	51.89	≤74	PASS
				Peak	2390.000	-49.52	4.74	0.00	50.42	≤74	PASS
		High	2462	AV	2483.500	-58.5	4.74	0.03	41.47	≤54	PASS
				AV	2485.980	-57.57	4.74	0.03	42.4	≤54	PASS
				AV	2500.000	-59.07	4.74	0.03	40.9	≤54	PASS
				Peak	2483.500	-49.58	4.74	0.00	50.36	≤74	PASS
				Peak	2485.210	-48.49	4.74	0.00	51.45	≤74	PASS
				Peak	2500.000	-49.21	4.74	0.00	50.73	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-59.78	4.74	1.33	41.49	≤54	PASS
				AV	2376.050	-58.7	4.74	1.33	42.57	≤54	PASS
				AV	2390.000	-59.27	4.74	1.33	42	≤54	PASS
				Peak	2310.000	-52.5	4.74	0.00	47.44	≤74	PASS
				Peak	2388.400	-48.17	4.74	0.00	51.77	≤74	PASS
				Peak	2390.000	-50.58	4.74	0.00	49.36	≤74	PASS
		High	2462	AV	2483.500	-59.2	4.74	1.25	41.99	≤54	PASS
				AV	2493.900	-58.28	4.74	1.25	42.91	≤54	PASS
				AV	2500.000	-58.7	4.74	1.25	42.49	≤54	PASS
				Peak	2483.500	-51.2	4.74	0.00	48.74	≤74	PASS
				Peak	2495.110	-48.28	4.74	0.00	51.66	≤74	PASS
				Peak	2500.000	-50.26	4.74	0.00	49.68	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-60.12	4.74	1.06	40.88	≤54	PASS
				AV	2383.720	-58.58	4.74	1.06	42.42	≤54	PASS
				AV	2390.000	-60.06	4.74	1.06	40.94	≤54	PASS
				Peak	2310.000	-53.18	4.74	0.00	46.76	≤74	PASS
				Peak	2387.360	-48.99	4.74	0.00	50.95	≤74	PASS
				Peak	2390.000	-51.56	4.74	0.00	48.38	≤74	PASS
		High	2462	AV	2483.500	-58.54	4.74	0.87	42.27	≤54	PASS
				AV	2490.270	-58.35	4.74	0.87	42.46	≤54	PASS
				AV	2500.000	-59.12	4.74	0.87	41.69	≤54	PASS
				Peak	2483.500	-50.47	4.74	0.00	49.47	≤74	PASS
				Peak	2489.610	-47.72	4.74	0.00	52.22	≤74	PASS
				Peak	2500.000	-50.79	4.74	0.00	49.15	≤74	PASS

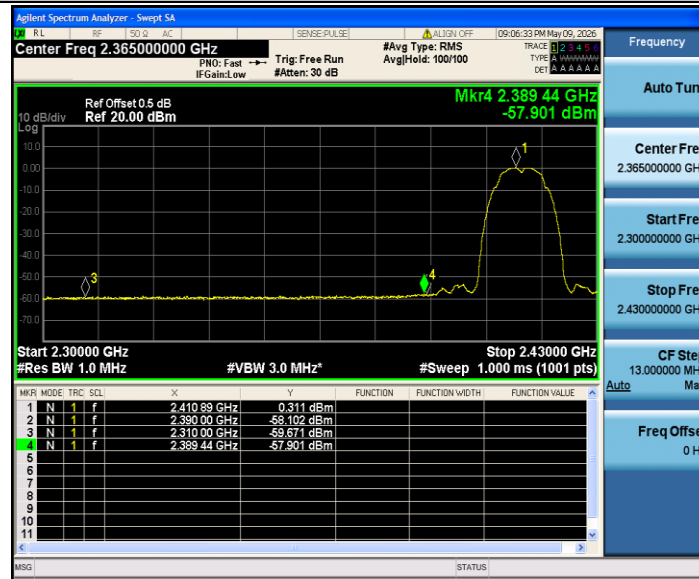
11N40SI SO	Ant1	Low	2422	AV	2310.000	-60.07	4.74	1.06	40.93	≤54	PASS
				AV	2389.850	-57.16	4.74	1.06	43.84	≤54	PASS
				AV	2390.000	-57.5	4.74	1.06	43.5	≤54	PASS
				Peak	2310.000	-52.88	4.74	0.00	47.06	≤74	PASS
				Peak	2387.000	-48.37	4.74	0.00	51.57	≤74	PASS
				Peak	2390.000	-49.06	4.74	0.00	50.88	≤74	PASS
		High	2452	AV	2483.500	-58.64	4.74	0.87	42.17	≤54	PASS
				AV	2486.000	-58	4.74	0.87	42.81	≤54	PASS
				AV	2500.000	-58.98	4.74	0.87	41.83	≤54	PASS
				Peak	2483.500	-49.23	4.74	0.00	50.71	≤74	PASS
				Peak	2484.875	-47.32	4.74	0.00	52.62	≤74	PASS
				Peak	2500.000	-51.16	4.74	0.00	48.78	≤74	PASS

Note:

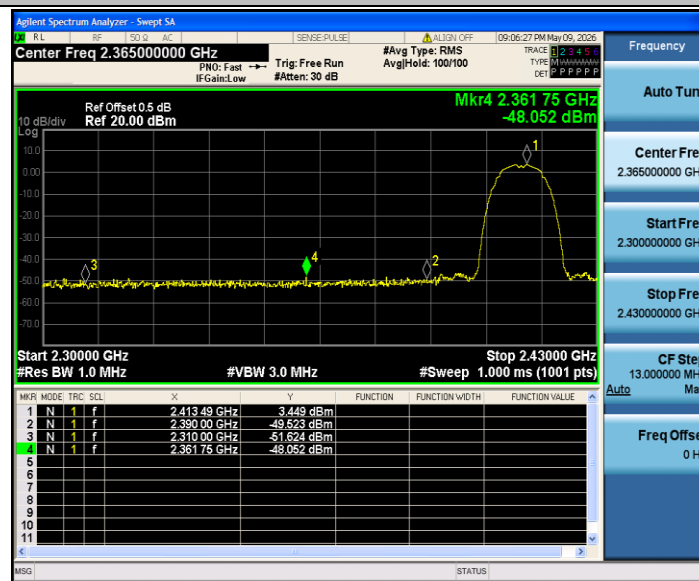
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

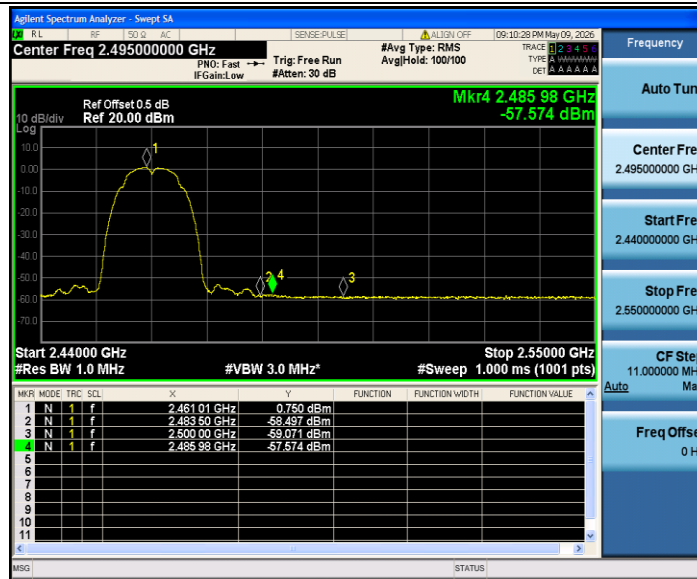
11B_Ant1_Low_2412_AV



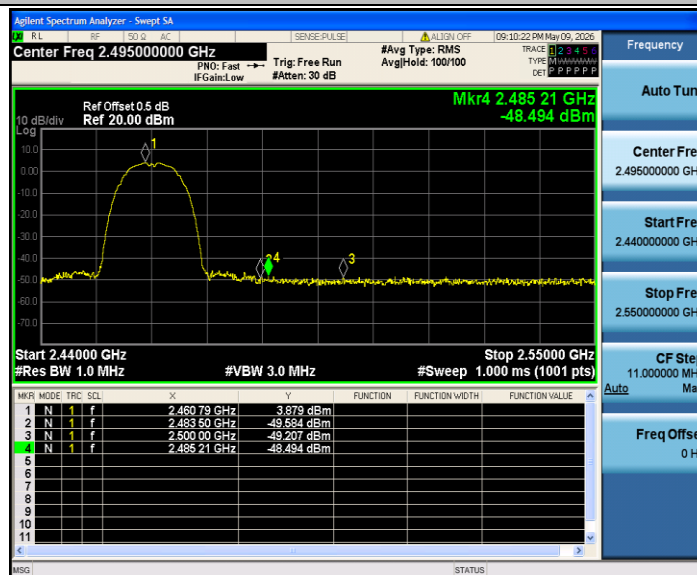
11B_Ant1_Low_2412_Peak



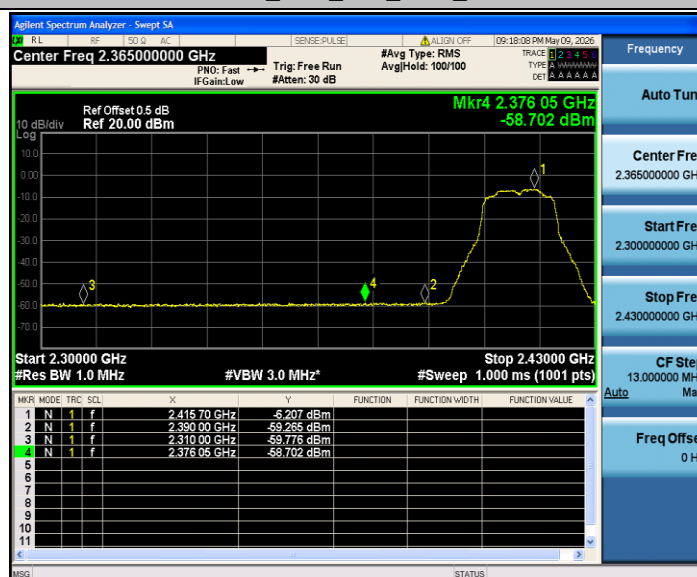
11B_Ant1_High_2462_AV



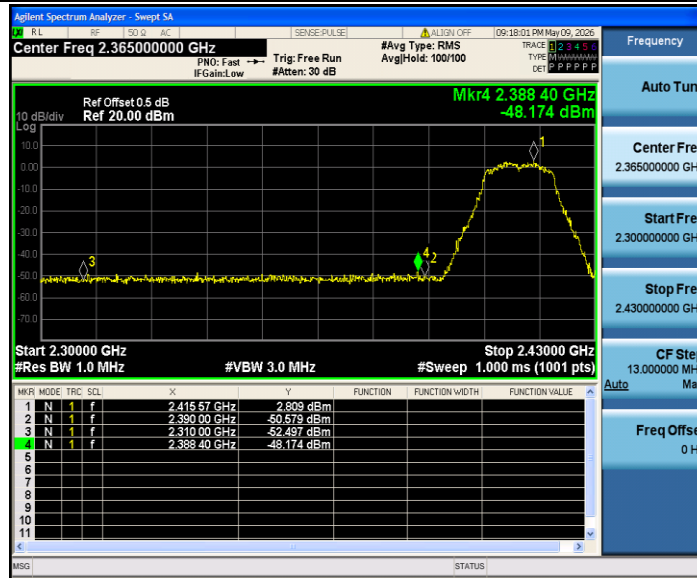
11B_Ant1_High_2462_Peak



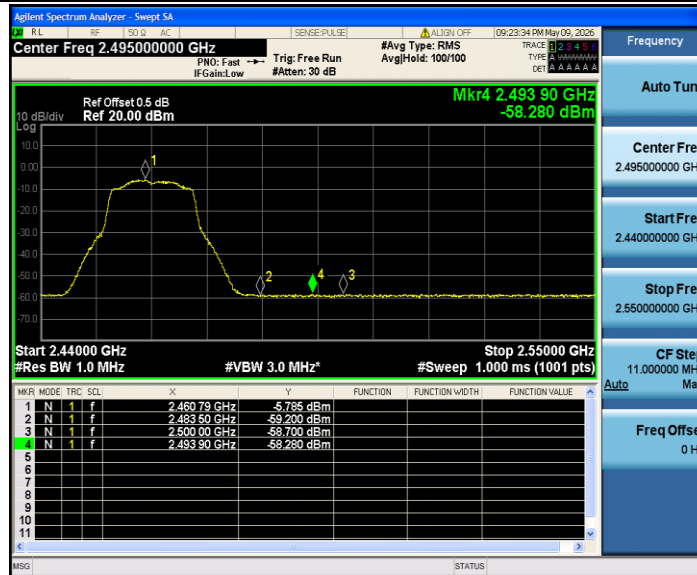
11G_Ant1_Low_2412_AV



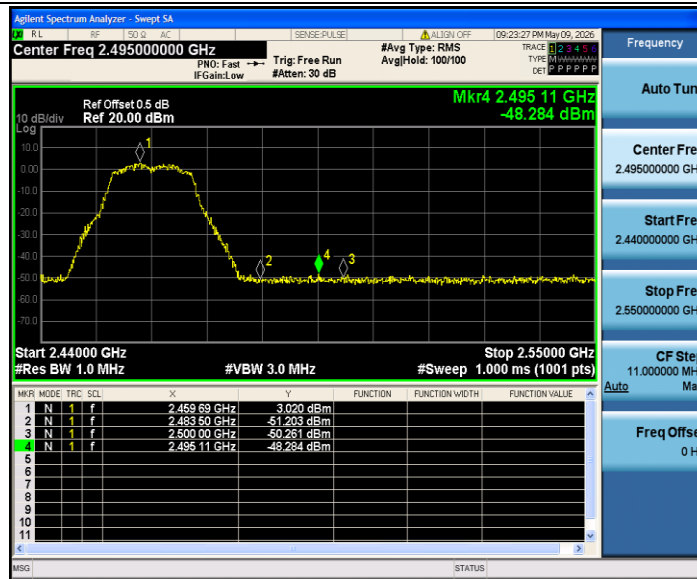
11G_Ant1_Low_2412_Peak



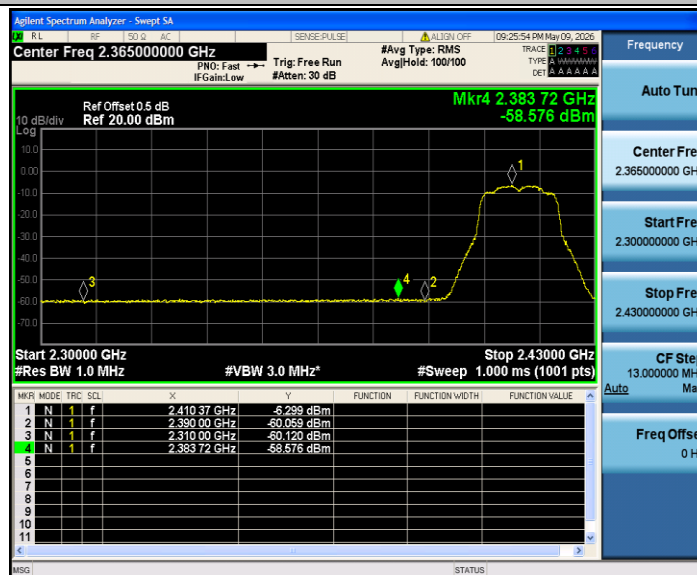
11G_Ant1_High_2462_AV



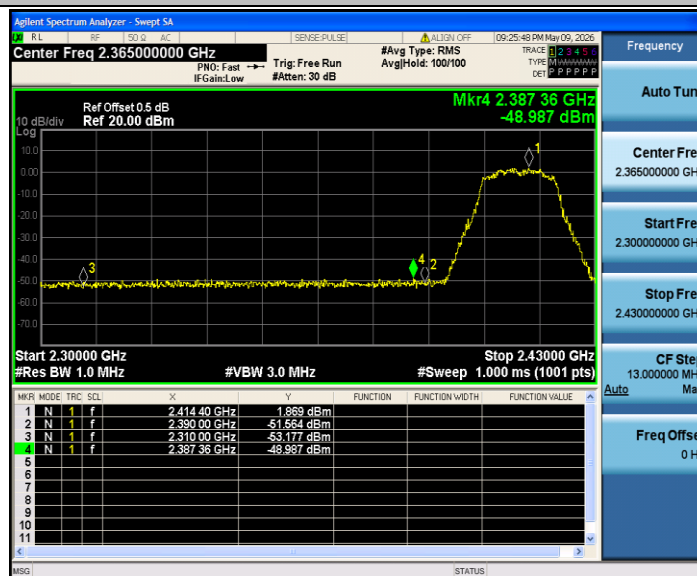
11G_Ant1_High_2462_Peak



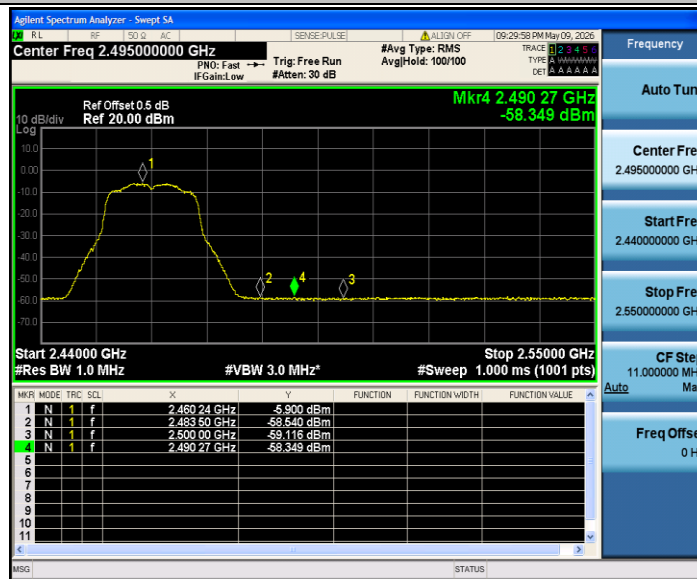
11N20SISO_Ant1_Low_2412_AV



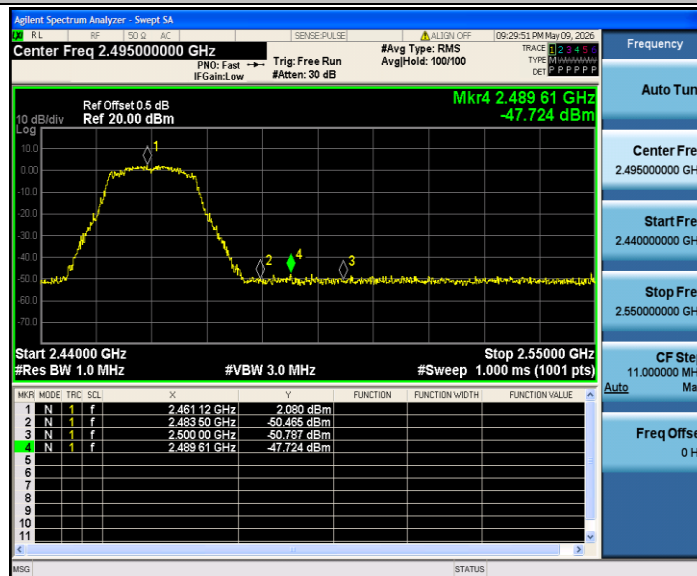
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



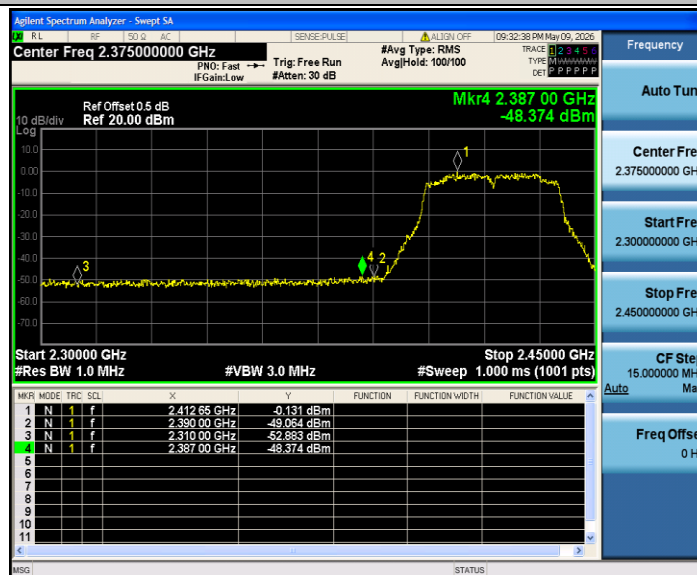
11N20SISO_Ant1_High_2462_Peak



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

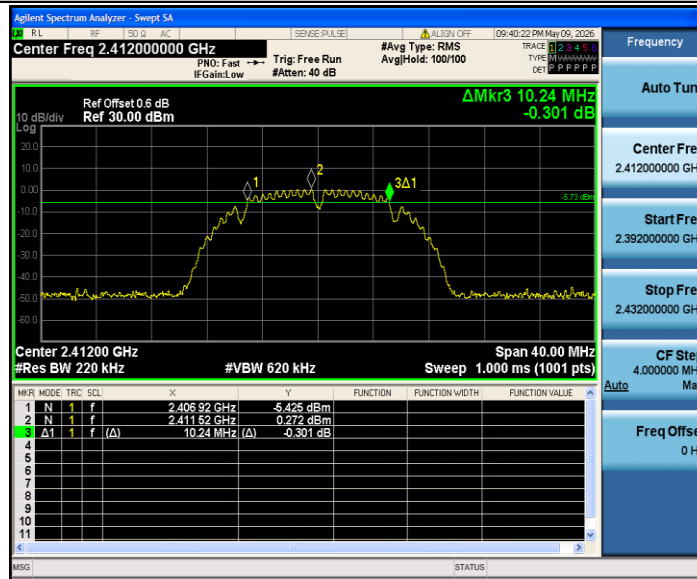
Appendix A: DTS Bandwidth

Test Result

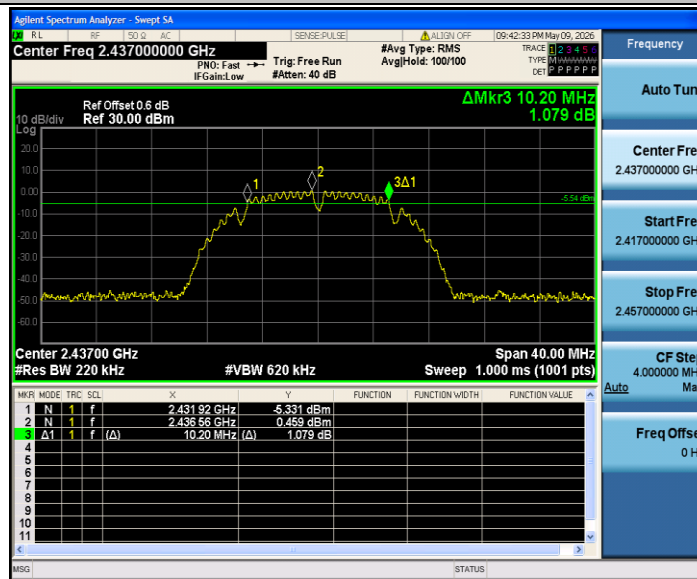
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant2	2412	15.680	2404.080	2419.760	0.5	PASS
		2437	15.640	2429.040	2444.680	0.5	PASS
		2462	15.760	2454.080	2469.840	0.5	PASS
11N20SISO	Ant2	2412	16.960	2403.680	2420.640	0.5	PASS
		2437	17.080	2428.480	2445.560	0.5	PASS
		2462	17.160	2453.440	2470.600	0.5	PASS
11N40SISO	Ant2	2422	35.760	2404.320	2440.080	0.5	PASS
		2437	35.200	2419.640	2454.840	0.5	PASS
		2452	35.680	2434.320	2470.000	0.5	PASS

Test Graphs

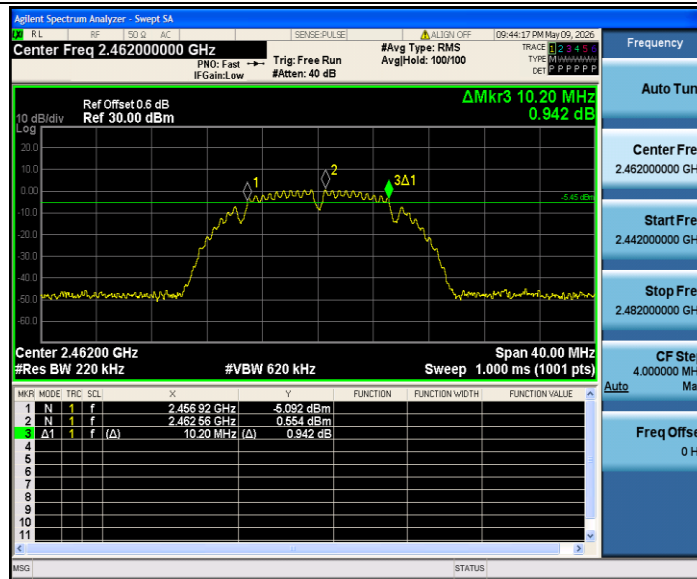
11B_Ant2_2412



11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437



11G_Ant2_2462



11N20SISO_Ant2_2412



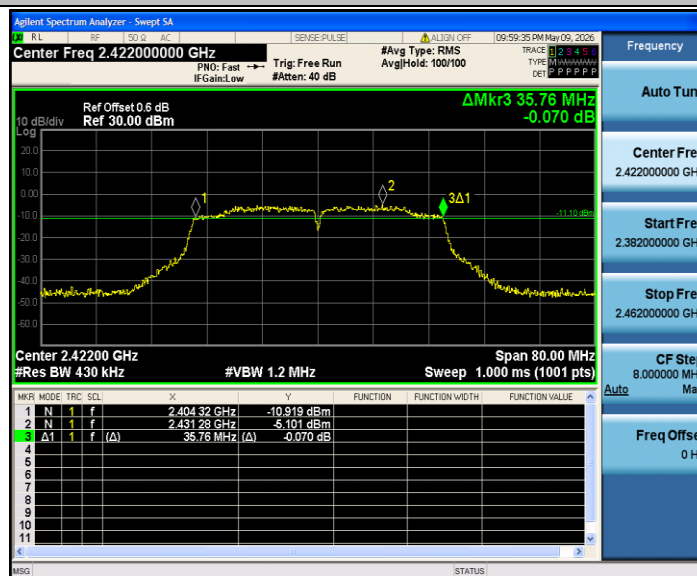
11N20SISO_Ant2_2437



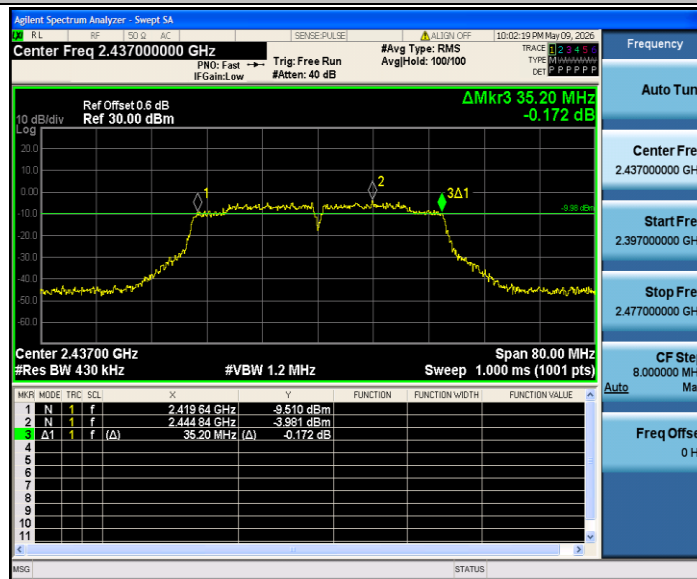
11N20SISO_Ant2_2462



11N40SISO_Ant2_2422



11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



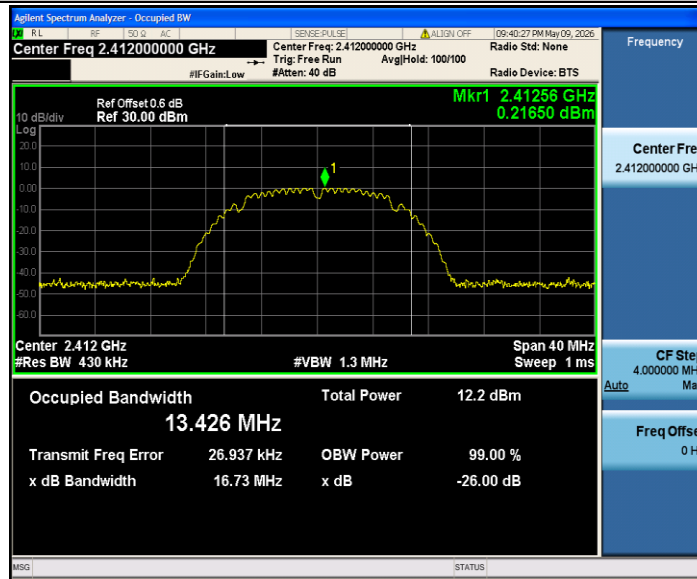
Appendix B: Occupied Channel Bandwidth

Test Result

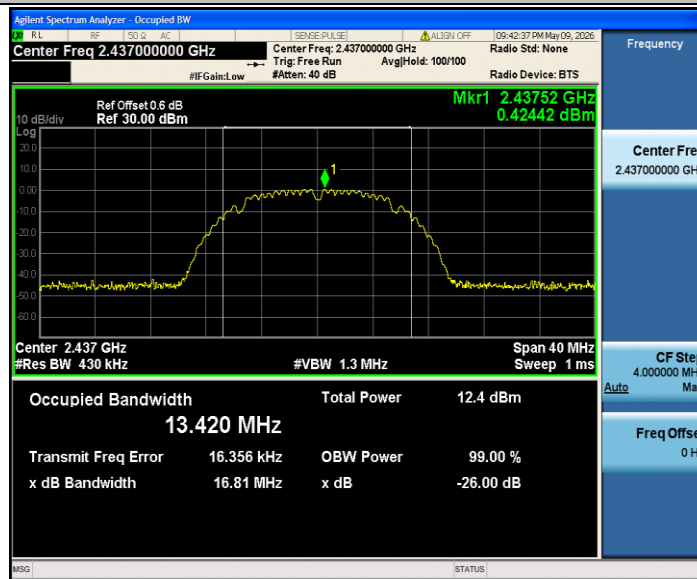
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.426	2405.3139	2418.7399	---	---
		2437	13.420	2430.3064	2443.7264	---	---
		2462	13.431	2455.2986	2468.7296	---	---
11G	Ant2	2412	16.801	2403.6343	2420.4353	---	---
		2437	16.913	2428.5461	2445.4591	---	---
		2462	16.894	2453.6103	2470.5043	---	---
11N20SISO	Ant2	2412	17.861	2403.1048	2420.9658	---	---
		2437	17.855	2428.0801	2445.9351	---	---
		2462	17.869	2453.0785	2470.9475	---	---
11N40SISO	Ant2	2422	36.058	2404.1243	2440.1823	---	---
		2437	36.057	2419.0898	2455.1468	---	---
		2452	36.023	2434.1300	2470.1530	---	---

Test Graphs

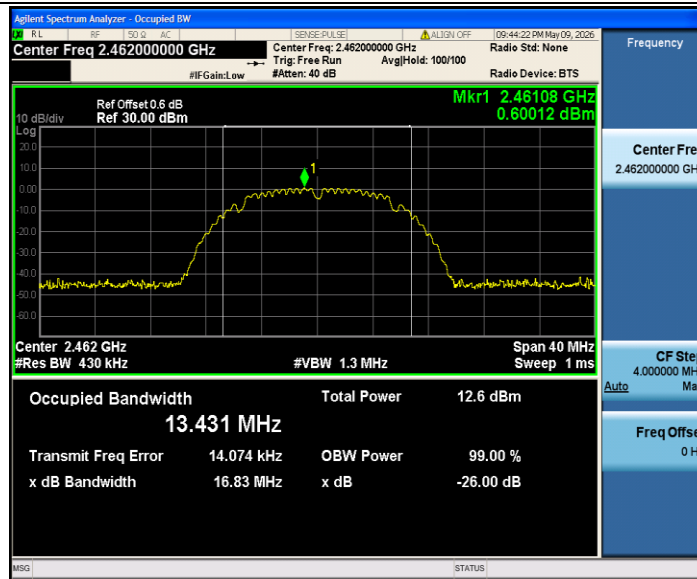
11B_Ant2_2412



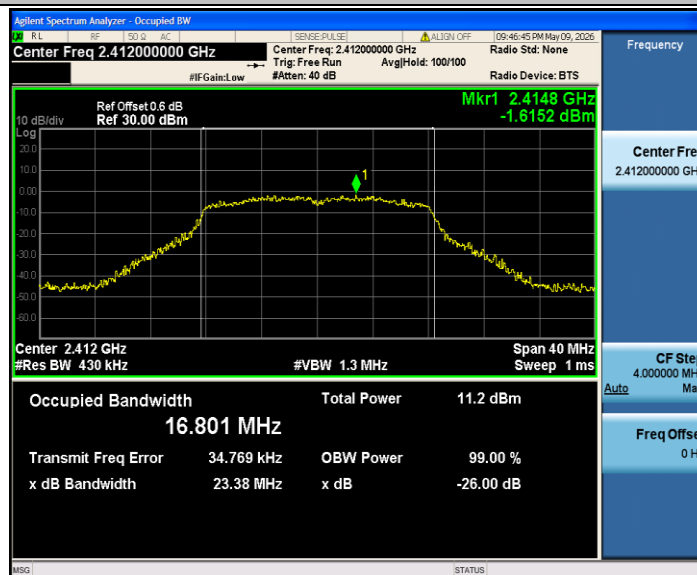
11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437

