

Case No. : <u>GTS20250510010-2-01</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH,	
Test Date: <u>2025.6.10</u>	Test Engineer: <u>Evan ouyang</u>

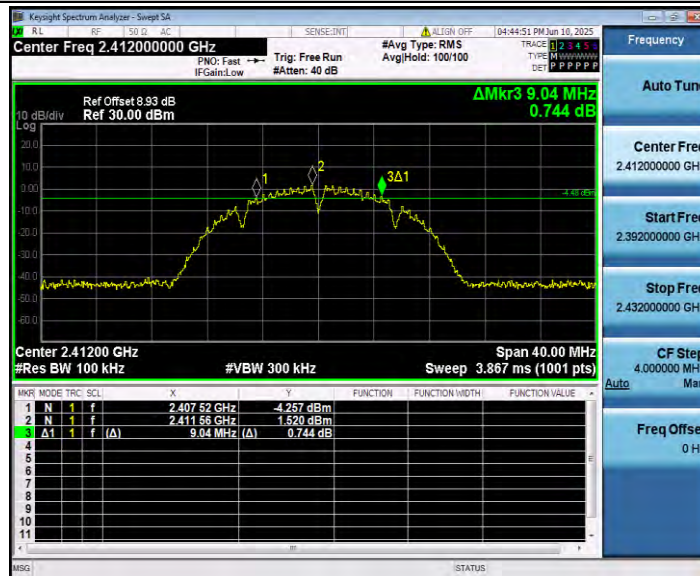
Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.520	2416.560	0.5	PASS
		2437	9.000	2432.520	2441.520	0.5	PASS
		2462	9.080	2457.520	2466.600	0.5	PASS
11G	Ant1	2412	16.560	2403.760	2420.320	0.5	PASS
		2437	16.520	2428.800	2445.320	0.5	PASS
		2462	16.520	2453.800	2470.320	0.5	PASS
11N20SISO	Ant1	2412	17.800	2403.160	2420.960	0.5	PASS
		2437	17.800	2428.160	2445.960	0.5	PASS
		2462	17.680	2453.200	2470.880	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



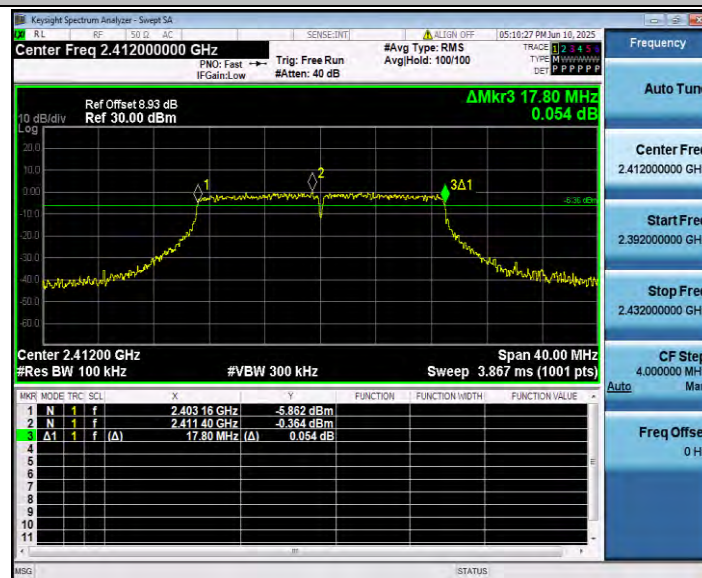
11G_Ant1_2437



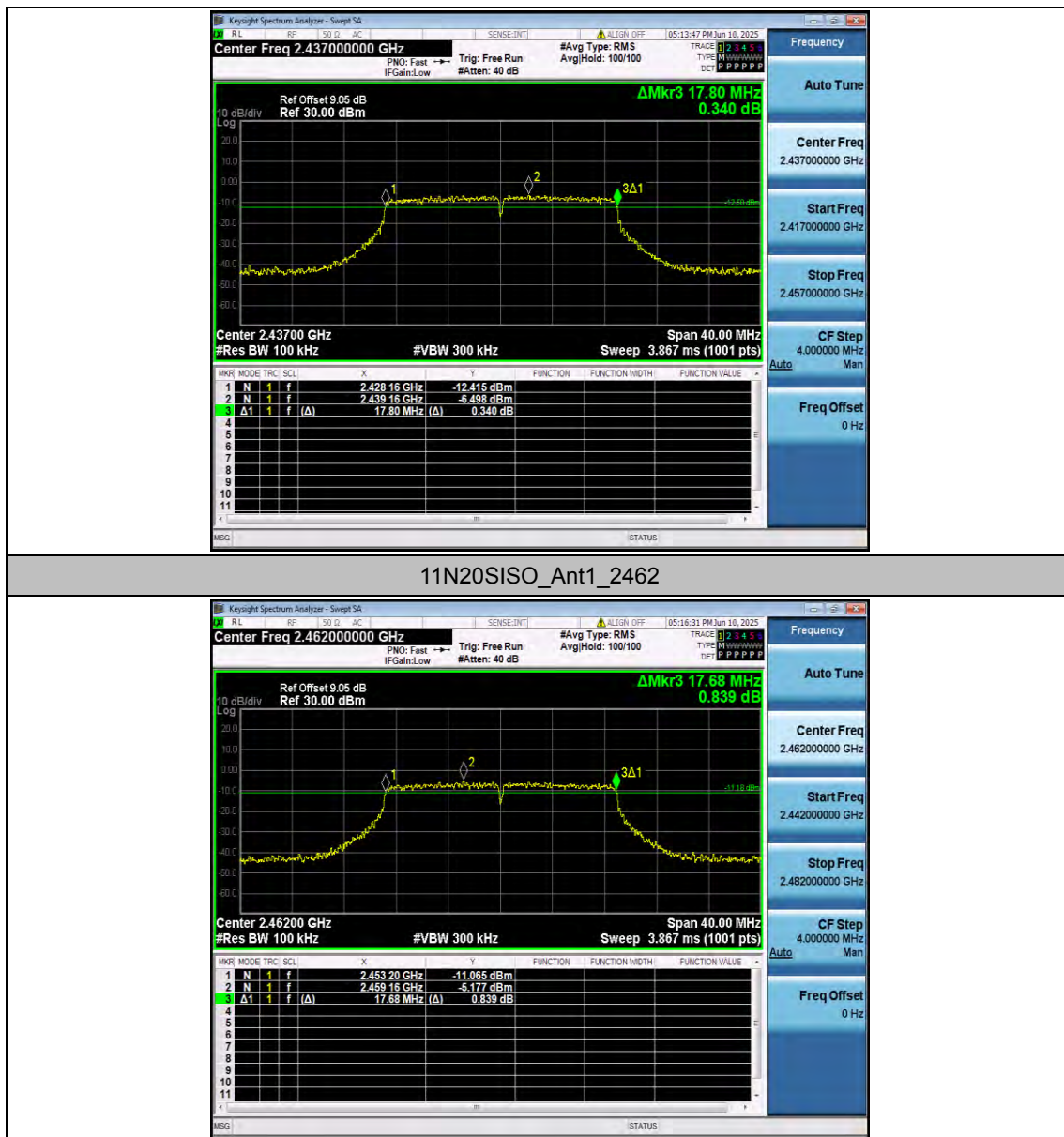
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

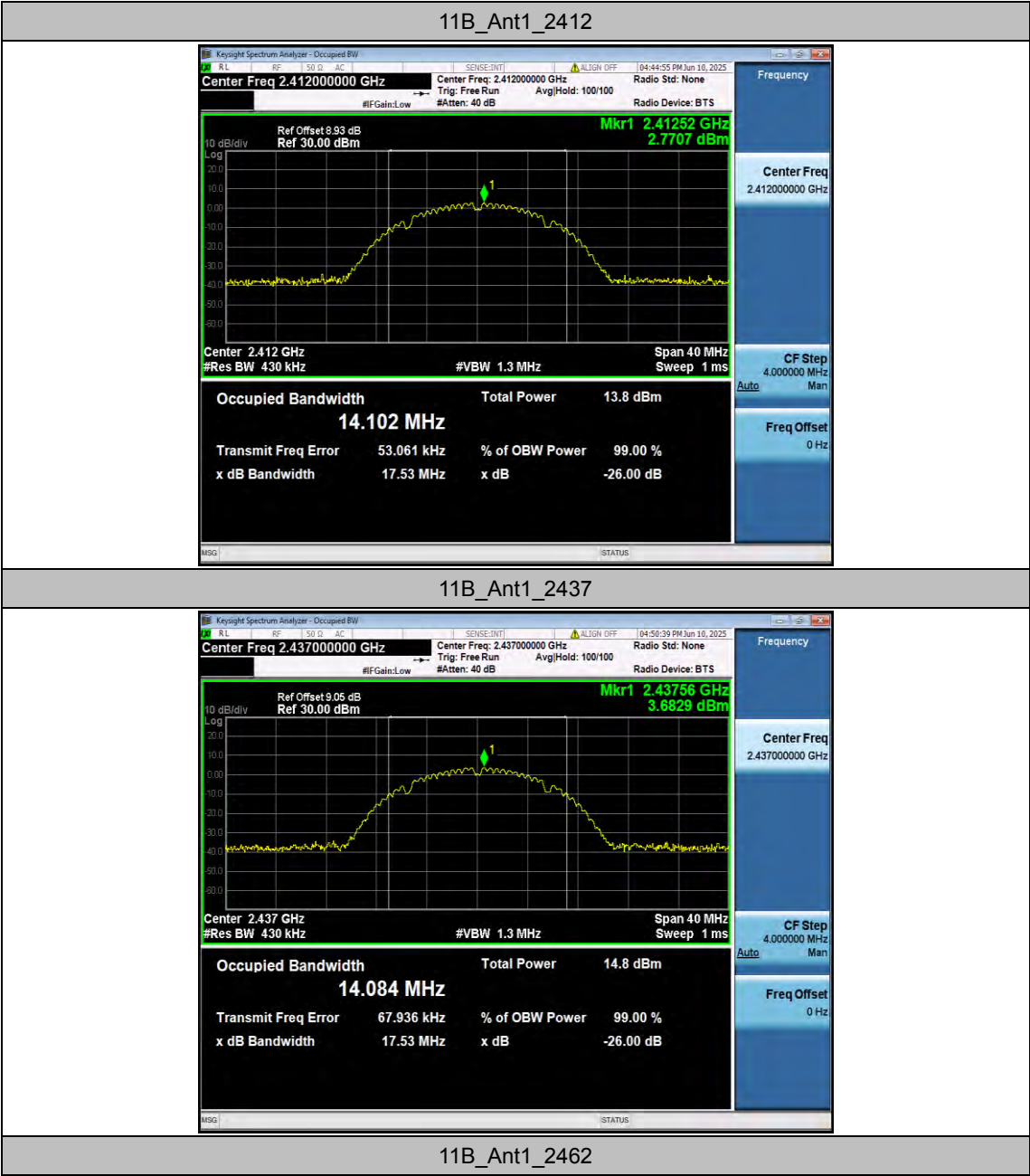


Appendix A.2: Occupied Channel Bandwidth

Test Result

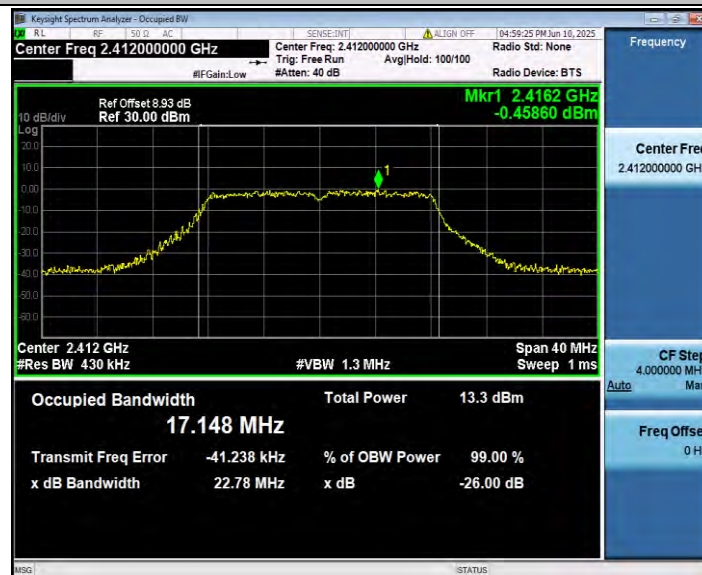
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.102	2405.0021	2419.1041	---	---
		2437	14.084	2430.0259	2444.1099	---	---
		2462	14.064	2455.0127	2469.0767	---	---
11G	Ant1	2412	17.148	2403.3848	2420.5328	---	---
		2437	17.100	2428.4534	2445.5534	---	---
		2462	17.118	2453.3834	2470.5014	---	---
11N20SISO	Ant1	2412	18.240	2402.9184	2421.1584	---	---
		2437	18.129	2428.0295	2446.1585	---	---
		2462	18.168	2452.9479	2471.1159	---	---

Test Graphs

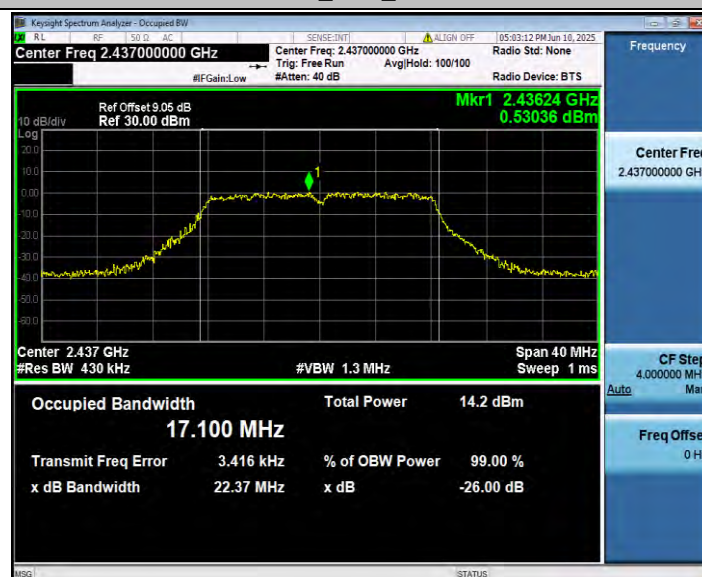




11G_Ant1_2412



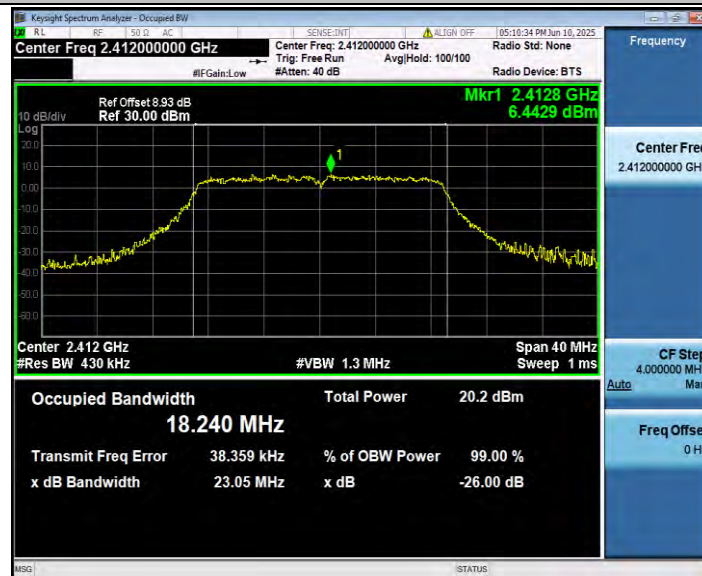
11G_Ant1_2437



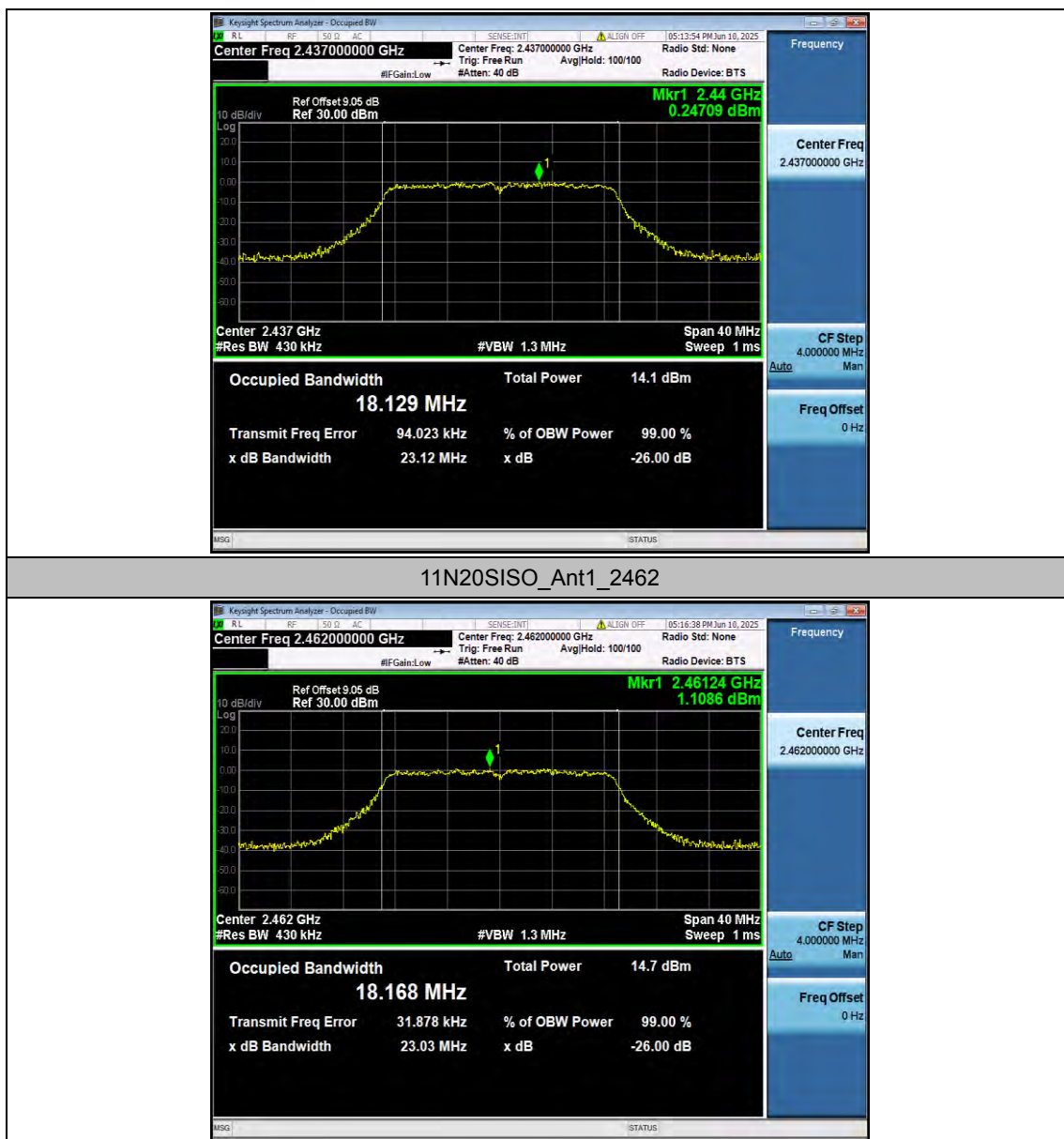
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.3: Maximum conducted output power

Test Result -CHP

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.93	≤30.00	PASS
		2437	17.89	≤30.00	PASS
		2462	17.46	≤30.00	PASS
11G	Ant1	2412	17.35	≤30.00	PASS
		2437	17.31	≤30.00	PASS
		2462	17.83	≤30.00	PASS
11N20SISO	Ant1	2412	17.44	≤30.00	PASS
		2437	17.42	≤30.00	PASS
		2462	17.07	≤30.00	PASS

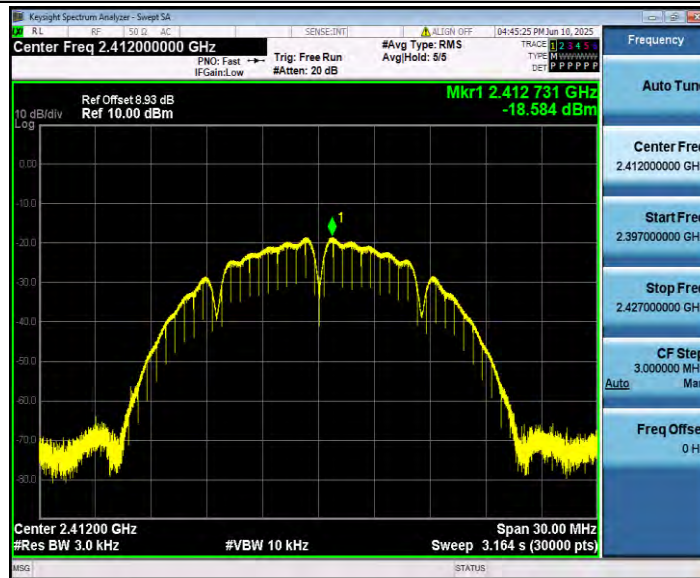
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.58	≤8.00	PASS
		2437	-17.63	≤8.00	PASS
		2462	-17.04	≤8.00	PASS
11G	Ant1	2412	-21.14	≤8.00	PASS
		2437	-20.40	≤8.00	PASS
		2462	-19.50	≤8.00	PASS
11N20SISO	Ant1	2412	-14.18	≤8.00	PASS
		2437	-20.07	≤8.00	PASS
		2462	-19.44	≤8.00	PASS

Test Graphs

11B_Ant1_2412



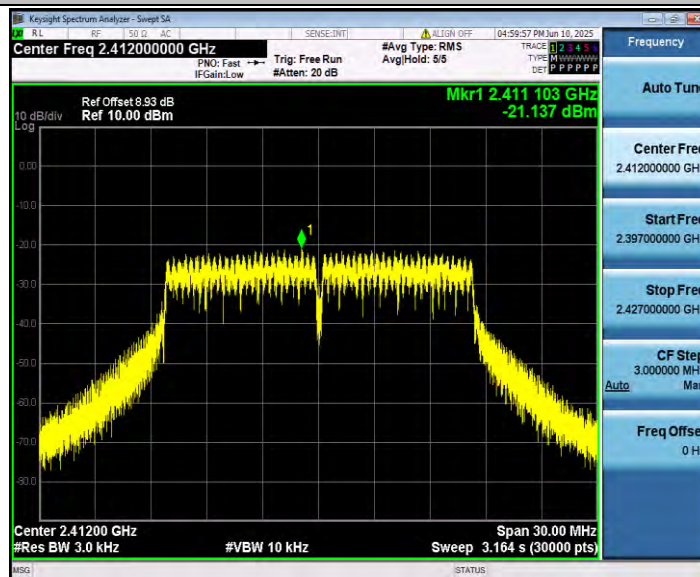
11B_Ant1_2437



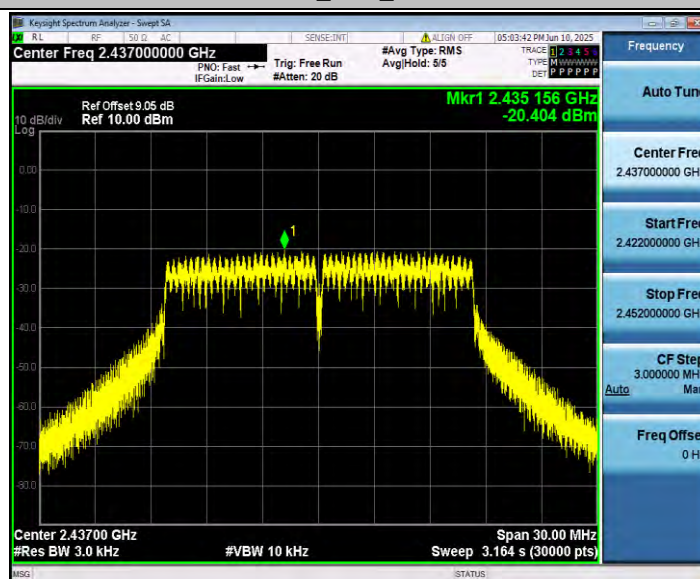
11B_Ant1_2462



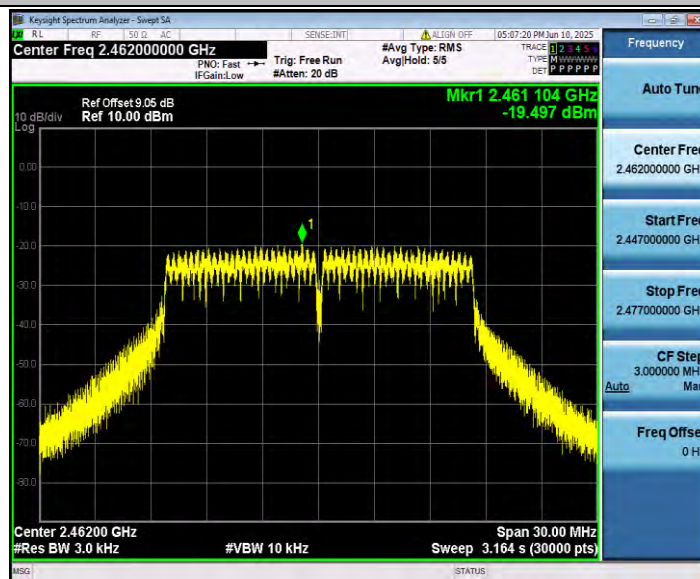
11G_Ant1_2412



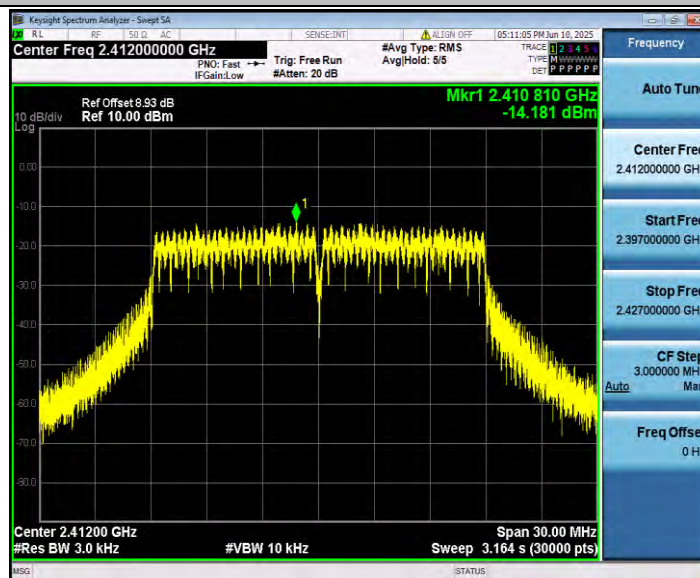
11G_Ant1_2437



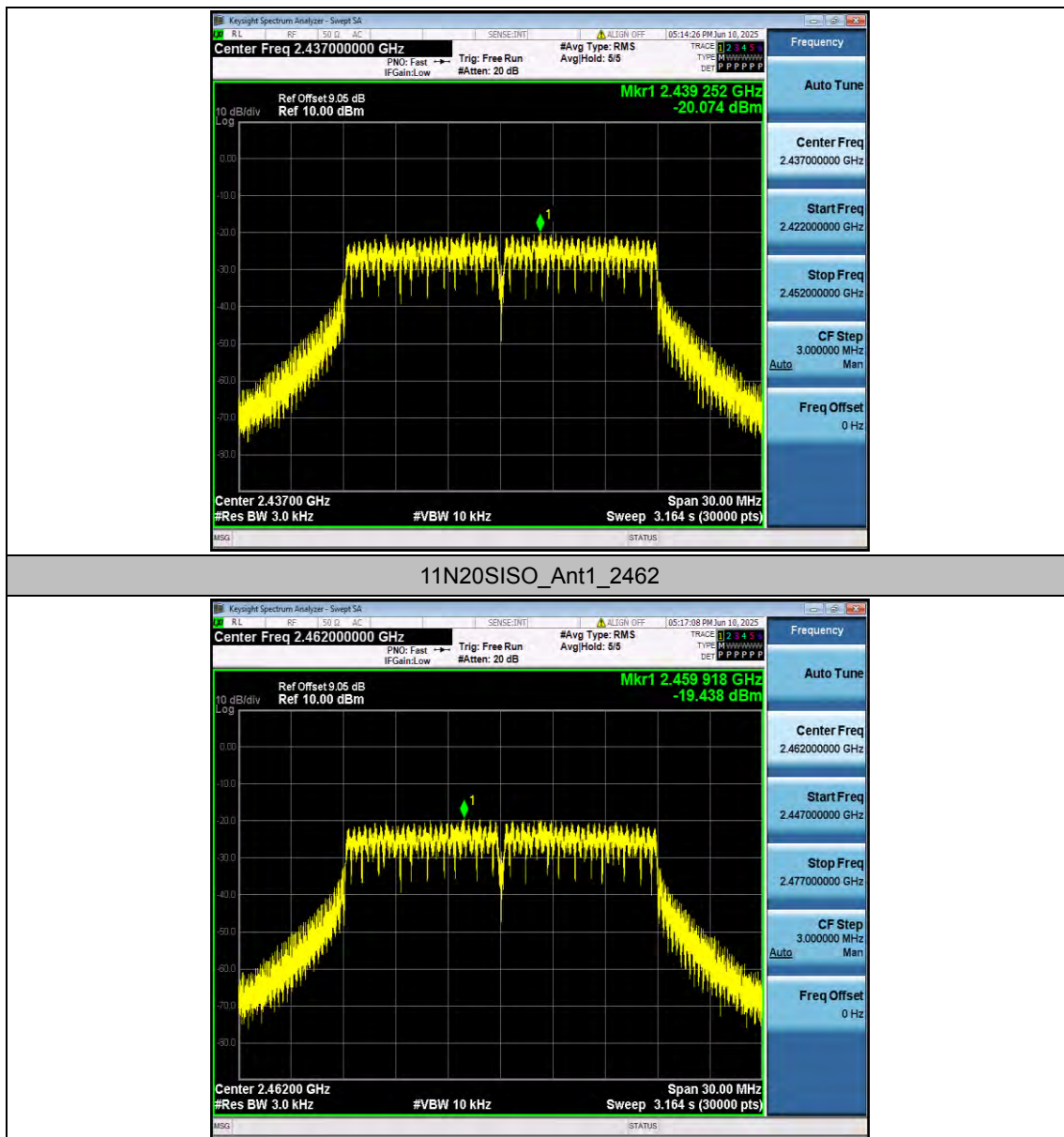
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

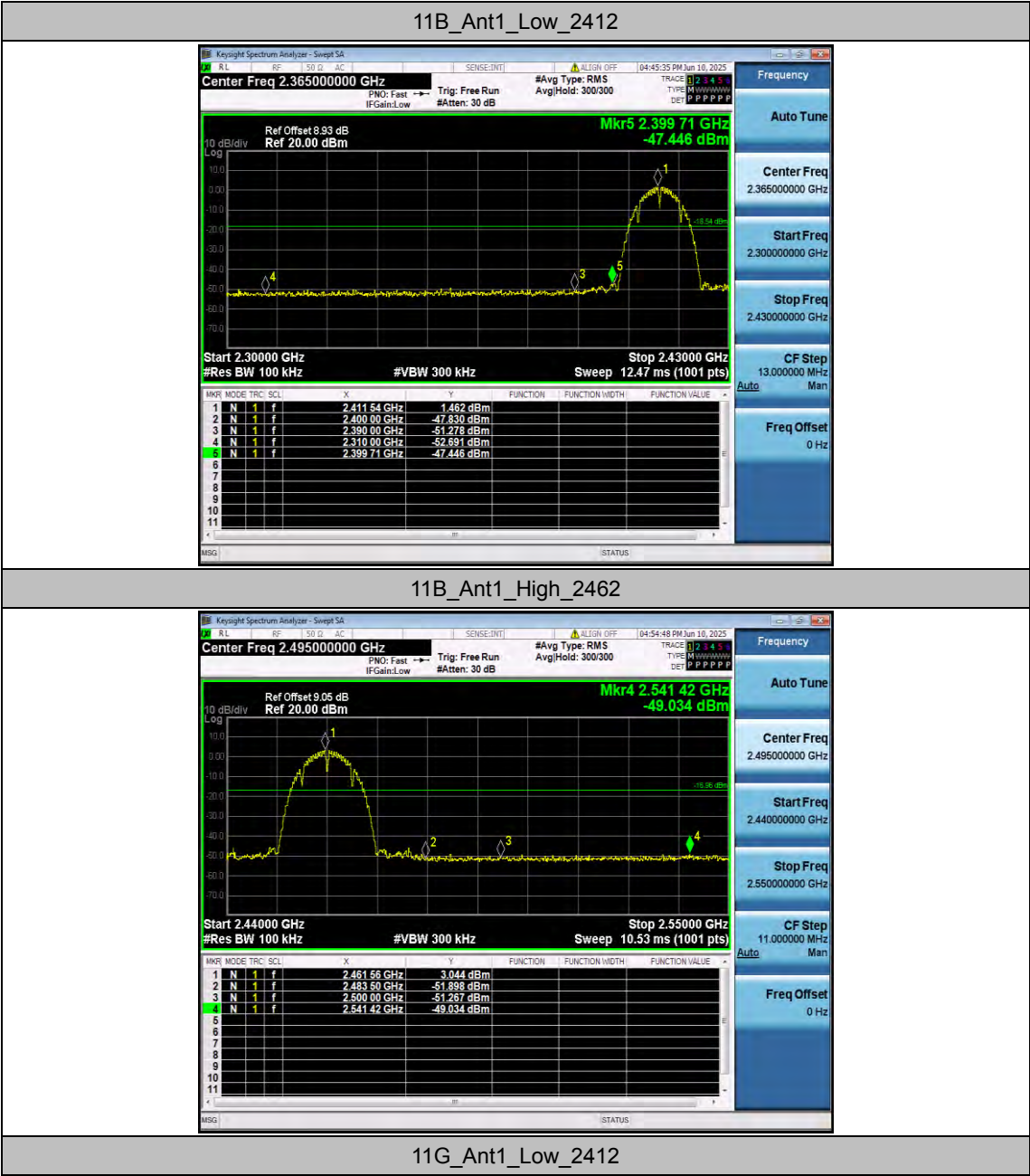


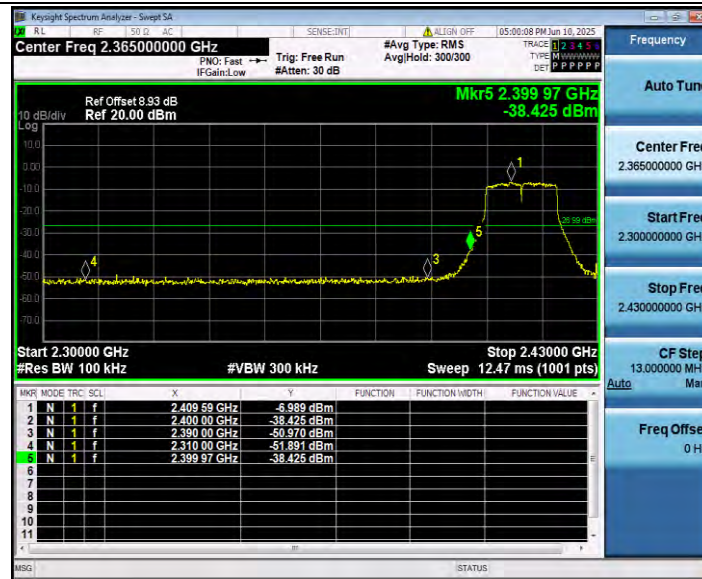
Appendix A.5: Band edge measurements

Test Result

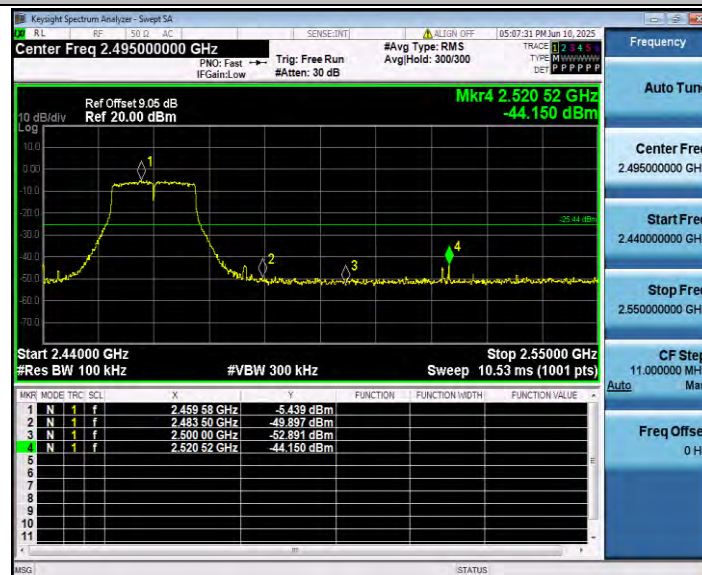
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.46	-47.45	≤ -18.54	PASS
		High	2462	3.04	-49.03	≤ -16.96	PASS
11G	Ant1	Low	2412	-6.99	-38.43	≤ -26.99	PASS
		High	2462	-5.44	-44.15	≤ -25.44	PASS
11N20SISO	Ant1	Low	2412	-0.20	-31.02	≤ -20.2	PASS
		High	2462	-5.09	-48.99	≤ -25.09	PASS

Test Graphs

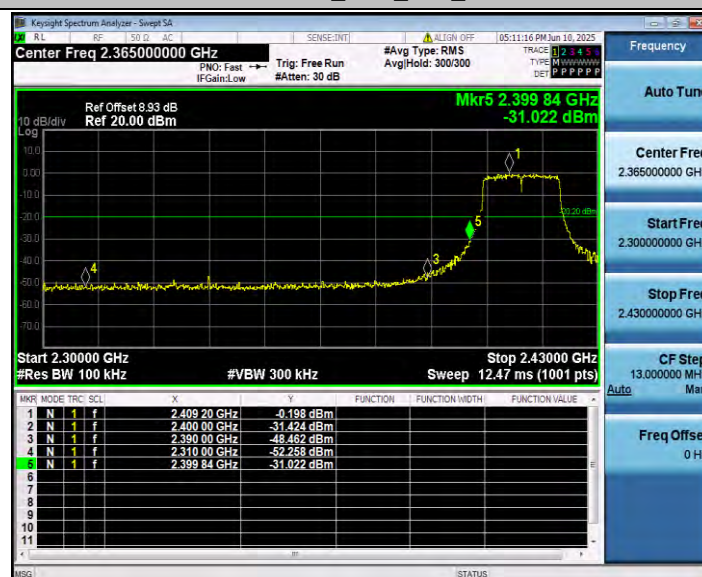


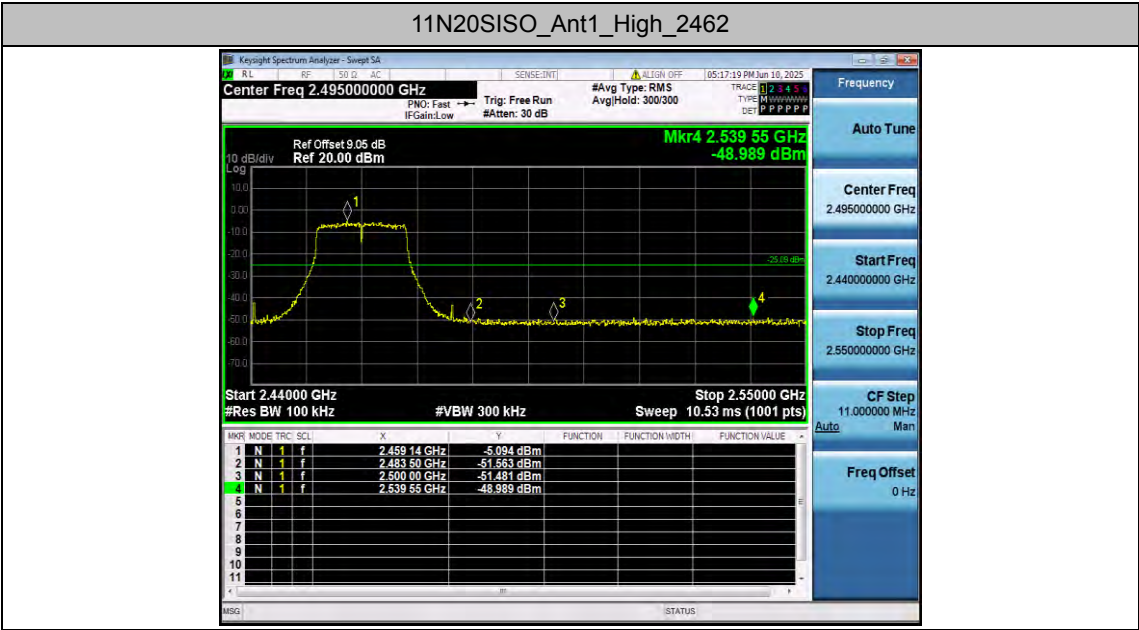


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



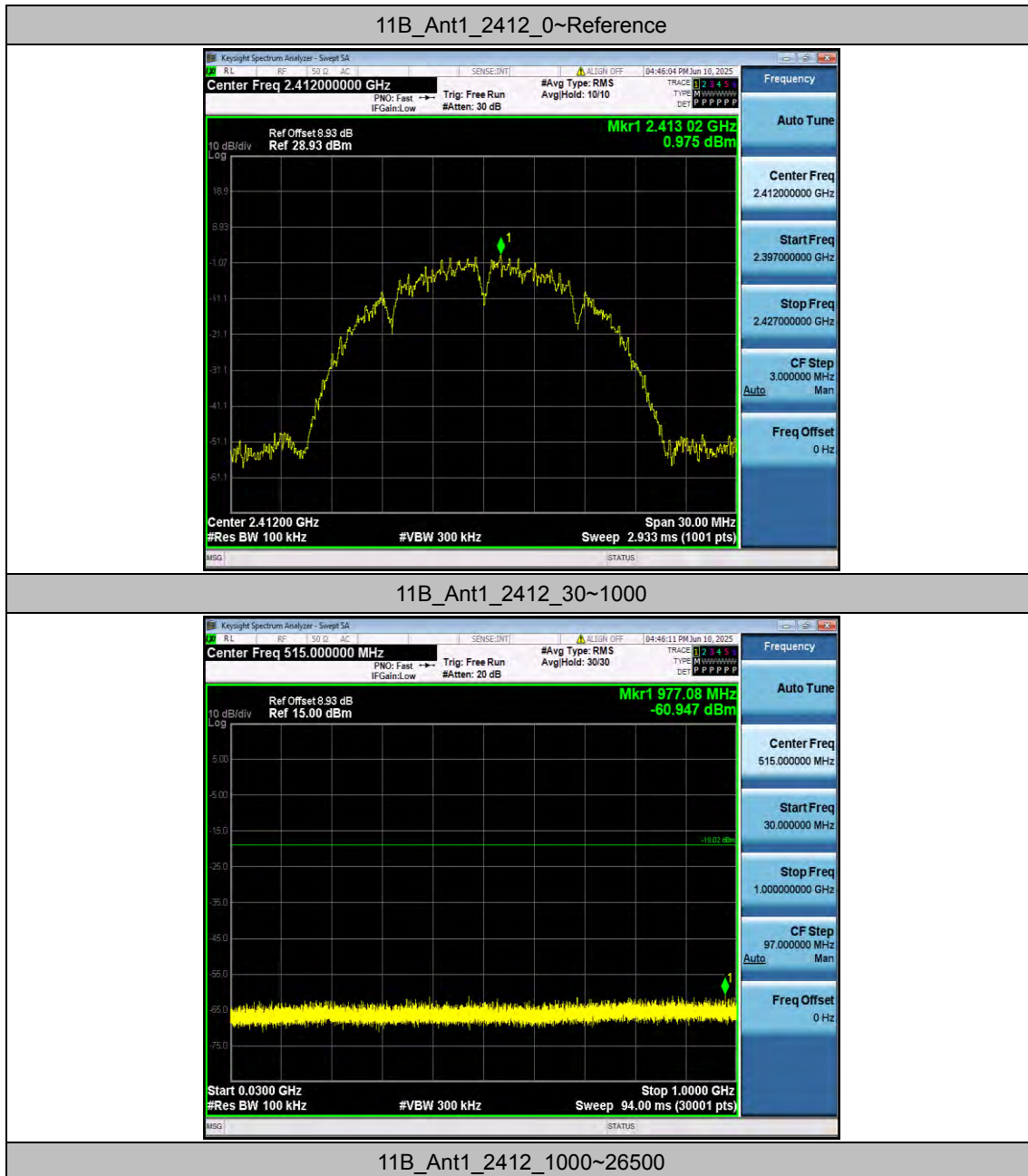


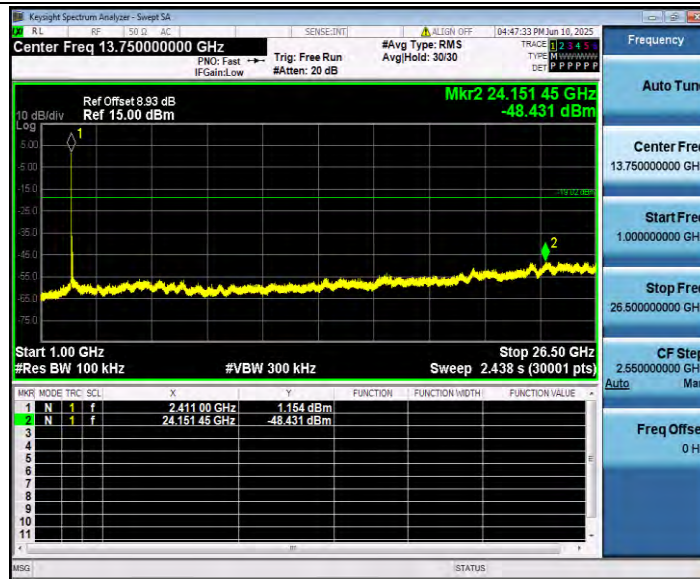
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-60.95	≤ -19.02	PASS
			1000~26500	0.98	-48.43	≤ -19.02	PASS
		2437	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-60.53	≤ -17.66	PASS
			1000~26500	2.34	-46.57	≤ -17.66	PASS
		2462	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-60.25	≤ -17.26	PASS
			1000~26500	2.74	-32.55	≤ -17.26	PASS
11G	Ant1	2412	Reference	-7.22	-7.22	---	PASS
			30~1000	-7.22	-61.1	≤ -27.22	PASS
			1000~26500	-7.22	-33.88	≤ -27.22	PASS
		2437	Reference	-6.57	-6.57	---	PASS
			30~1000	-6.57	-60.65	≤ -26.57	PASS
			1000~26500	-6.57	-46.12	≤ -26.57	PASS
		2462	Reference	-5.77	-5.77	---	PASS
			30~1000	-5.77	-60.17	≤ -25.77	PASS
			1000~26500	-5.77	-48.02	≤ -25.77	PASS
11N20SISO	Ant1	2412	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-60.83	≤ -21.23	PASS
			1000~26500	-1.23	-48.11	≤ -21.23	PASS
		2437	Reference	-7.02	-7.02	---	PASS
			30~1000	-7.02	-60.52	≤ -27.02	PASS
			1000~26500	-7.02	-47.58	≤ -27.02	PASS
		2462	Reference	-5.83	-5.83	---	PASS
			30~1000	-5.83	-61.11	≤ -25.83	PASS
			1000~26500	-5.83	-47.18	≤ -25.83	PASS

Test Graphs

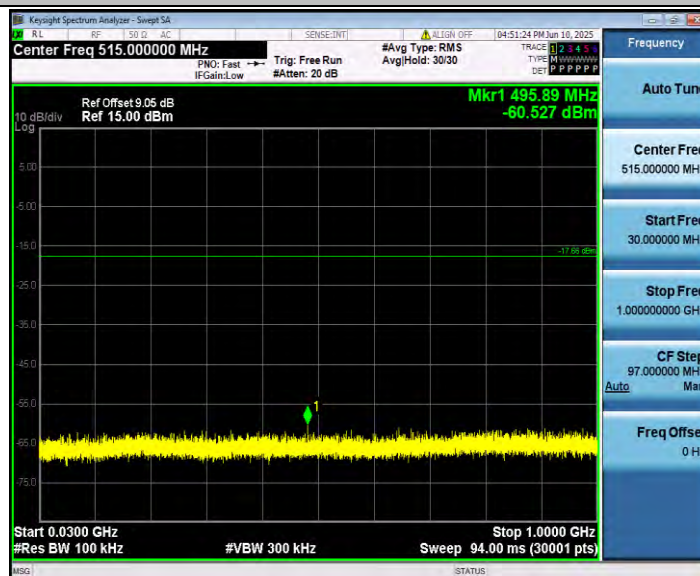




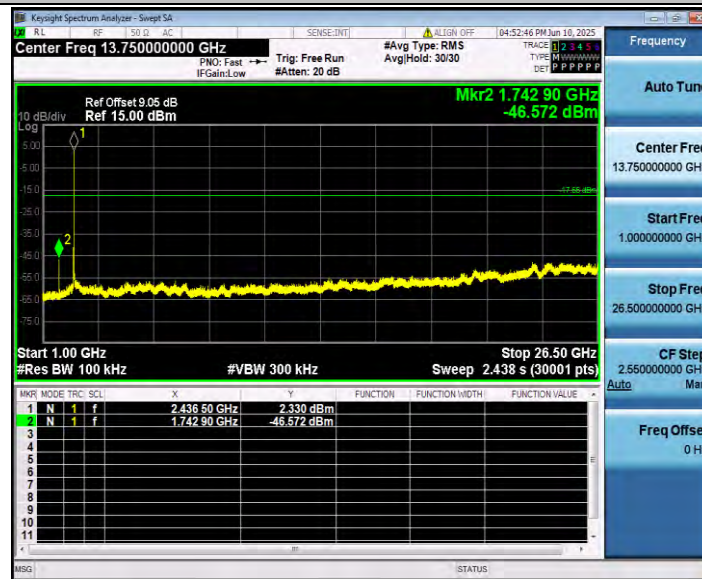
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



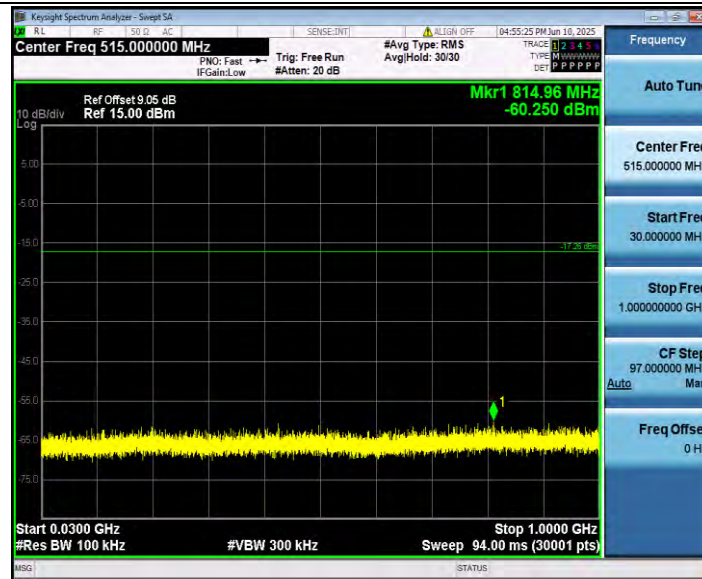
11B_Ant1_2437_1000~26500



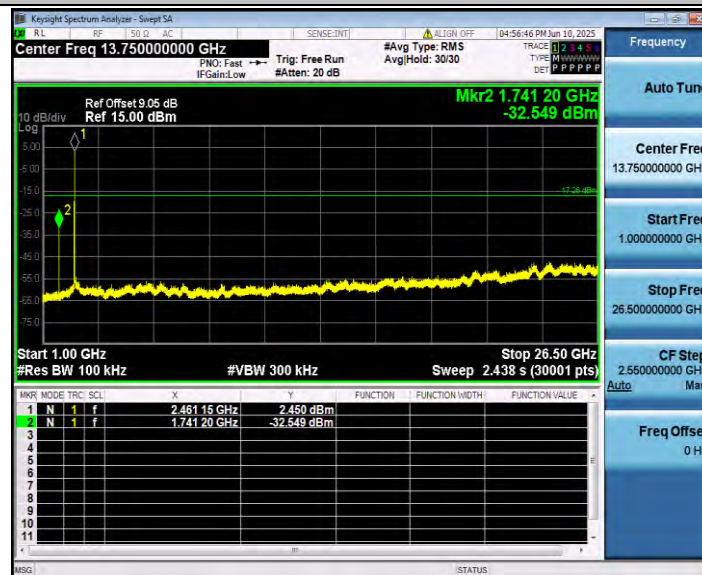
11B_Ant1_2462_0~Reference



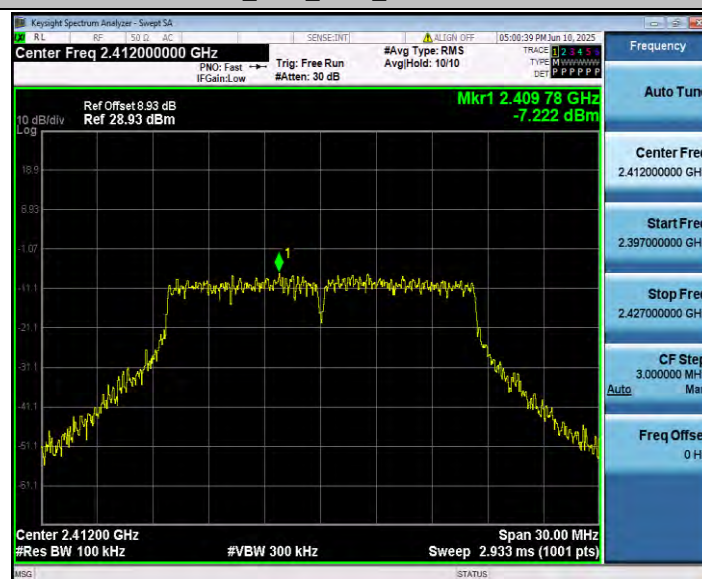
11B_Ant1_2462_30~1000



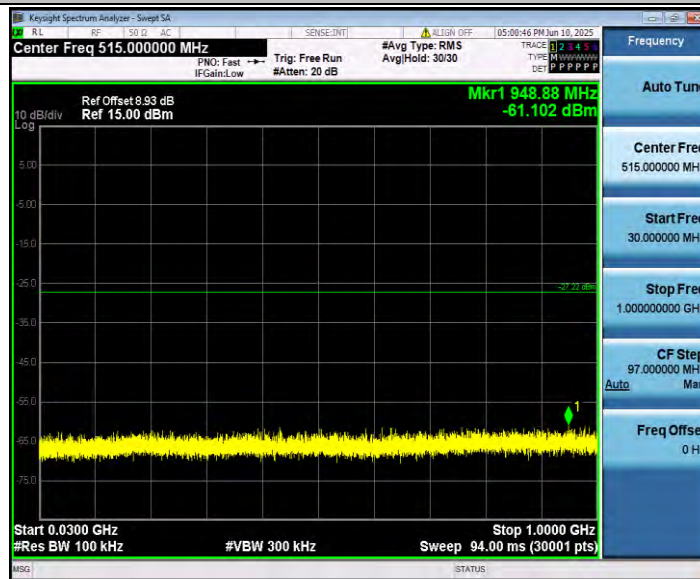
11B_Ant1_2462_1000~26500



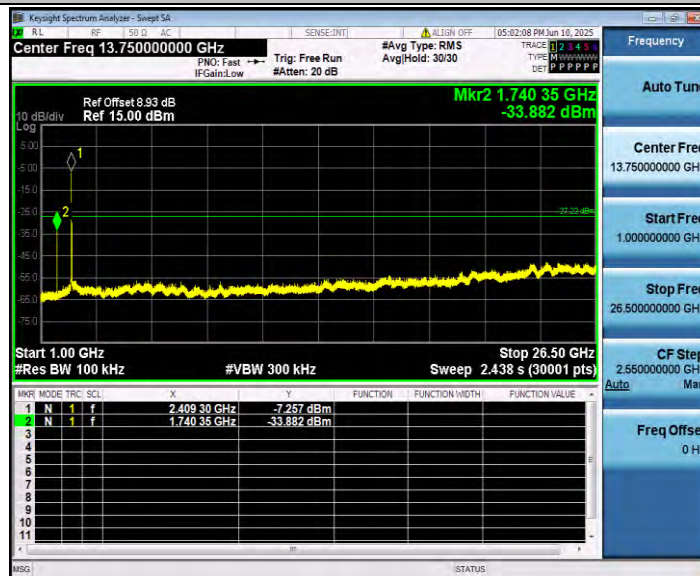
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



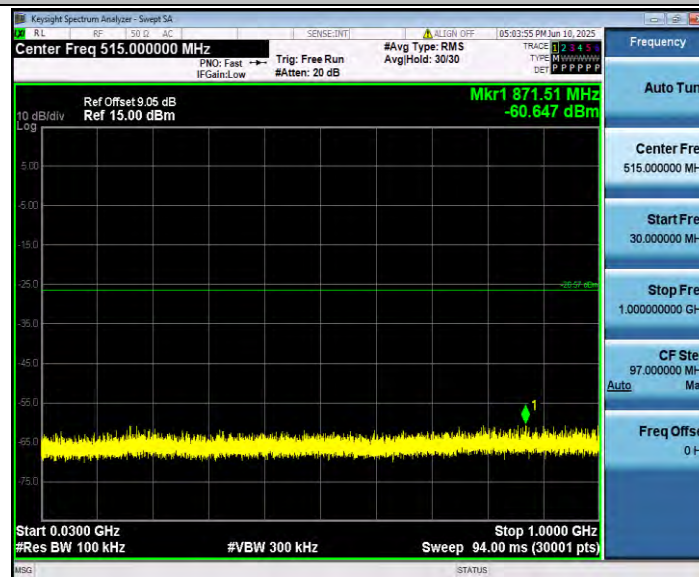
11G_Ant1_2412_1000~26500



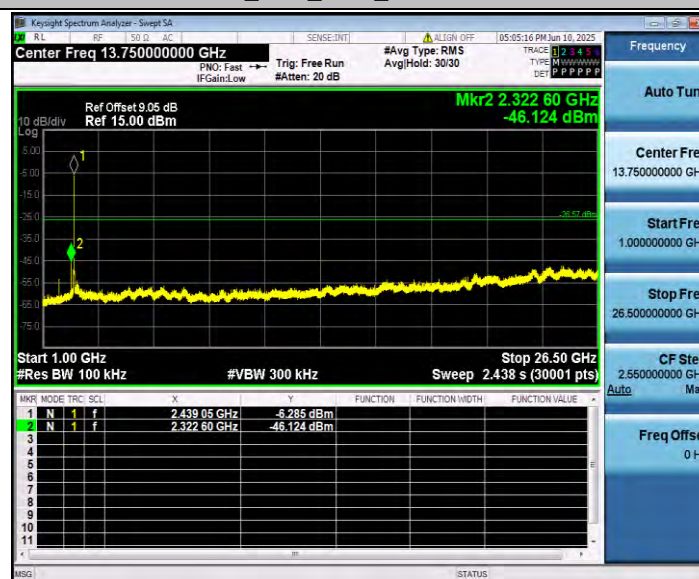
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



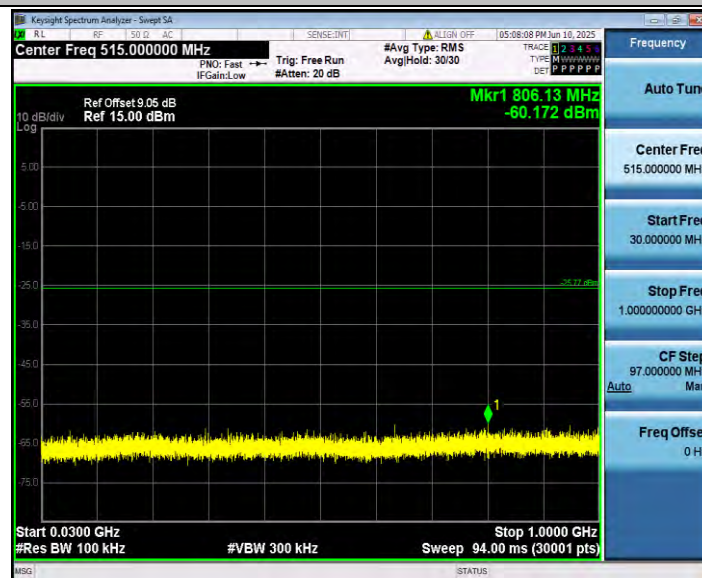
11G_Ant1_2437_1000~26500



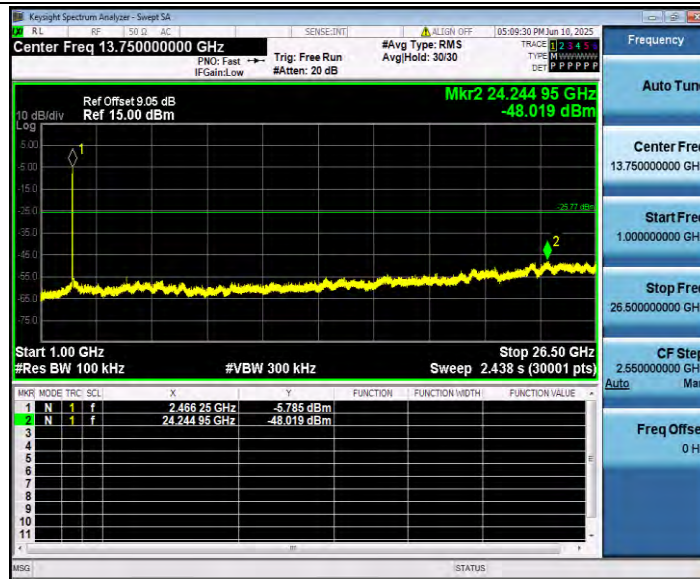
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



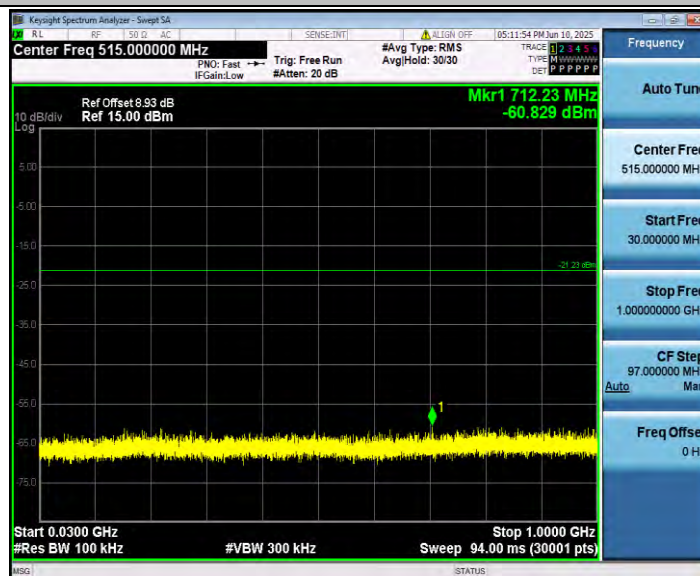
11G_Ant1_2462_1000~26500



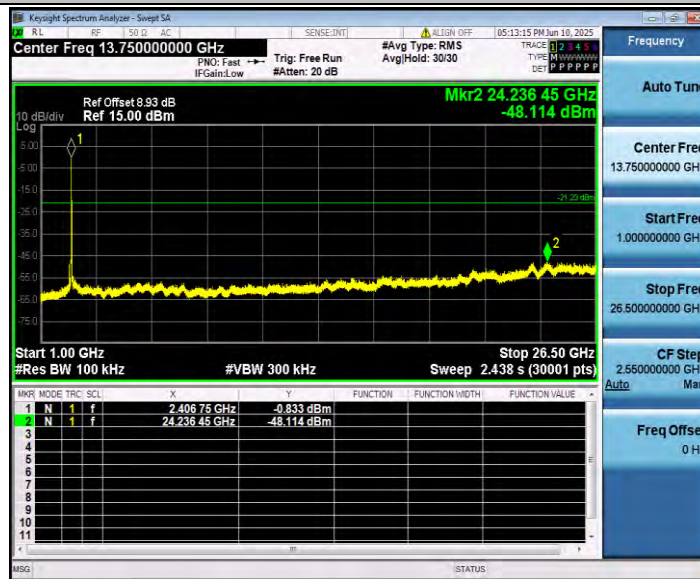
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



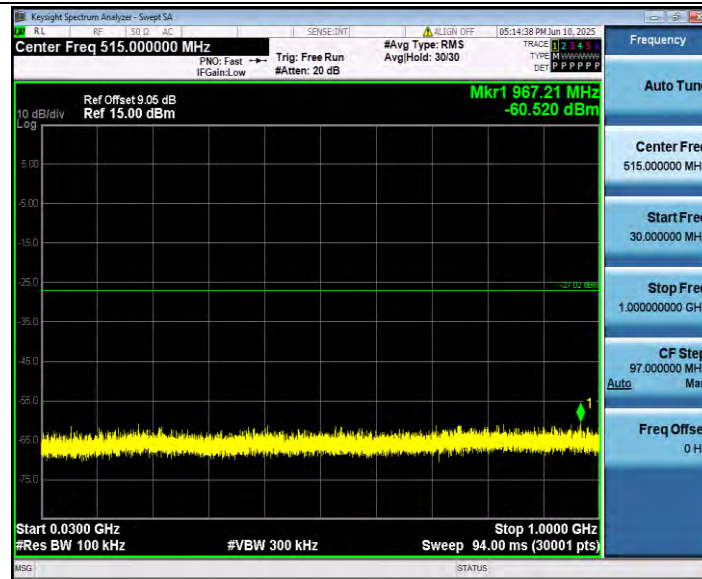
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

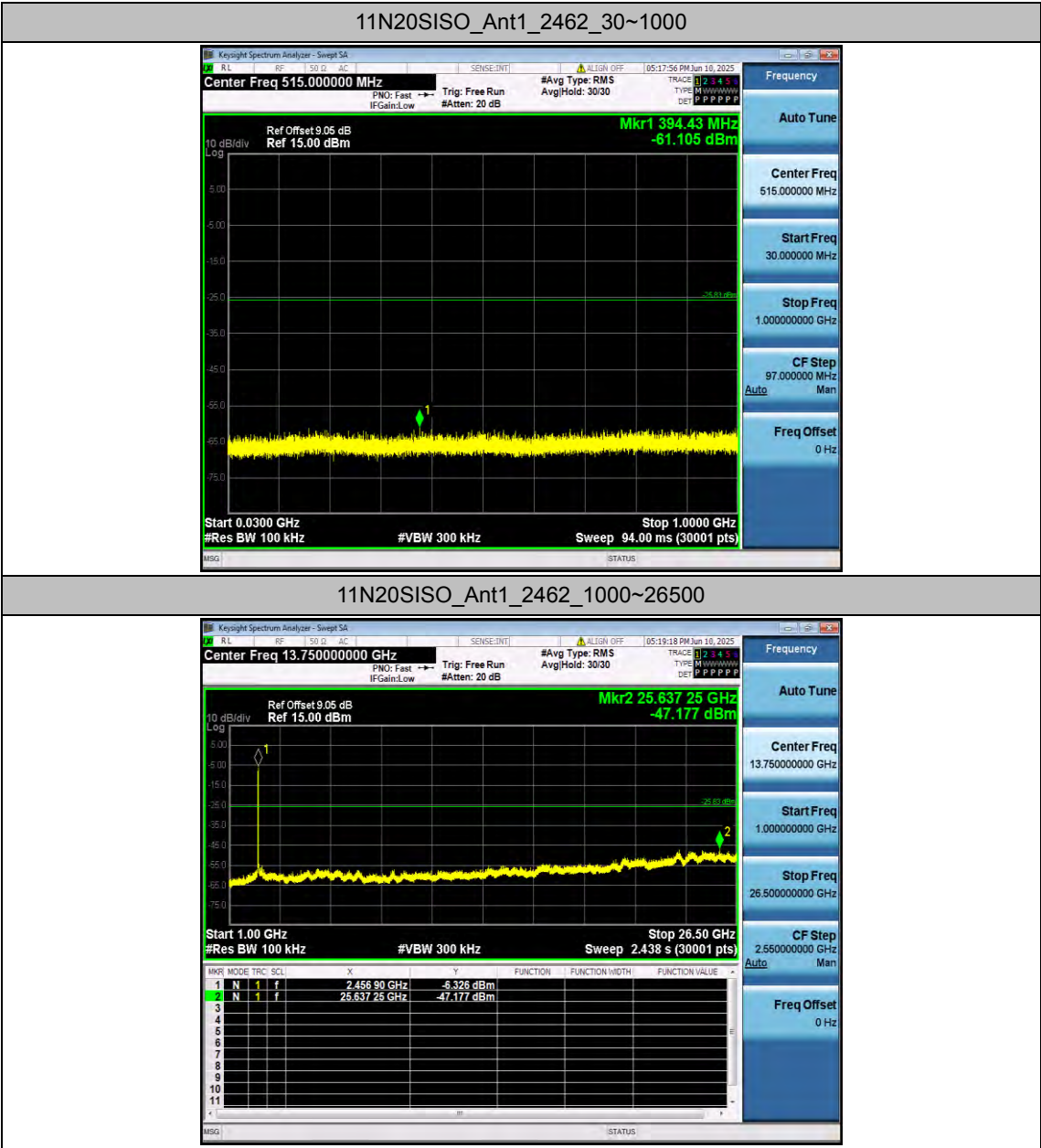


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



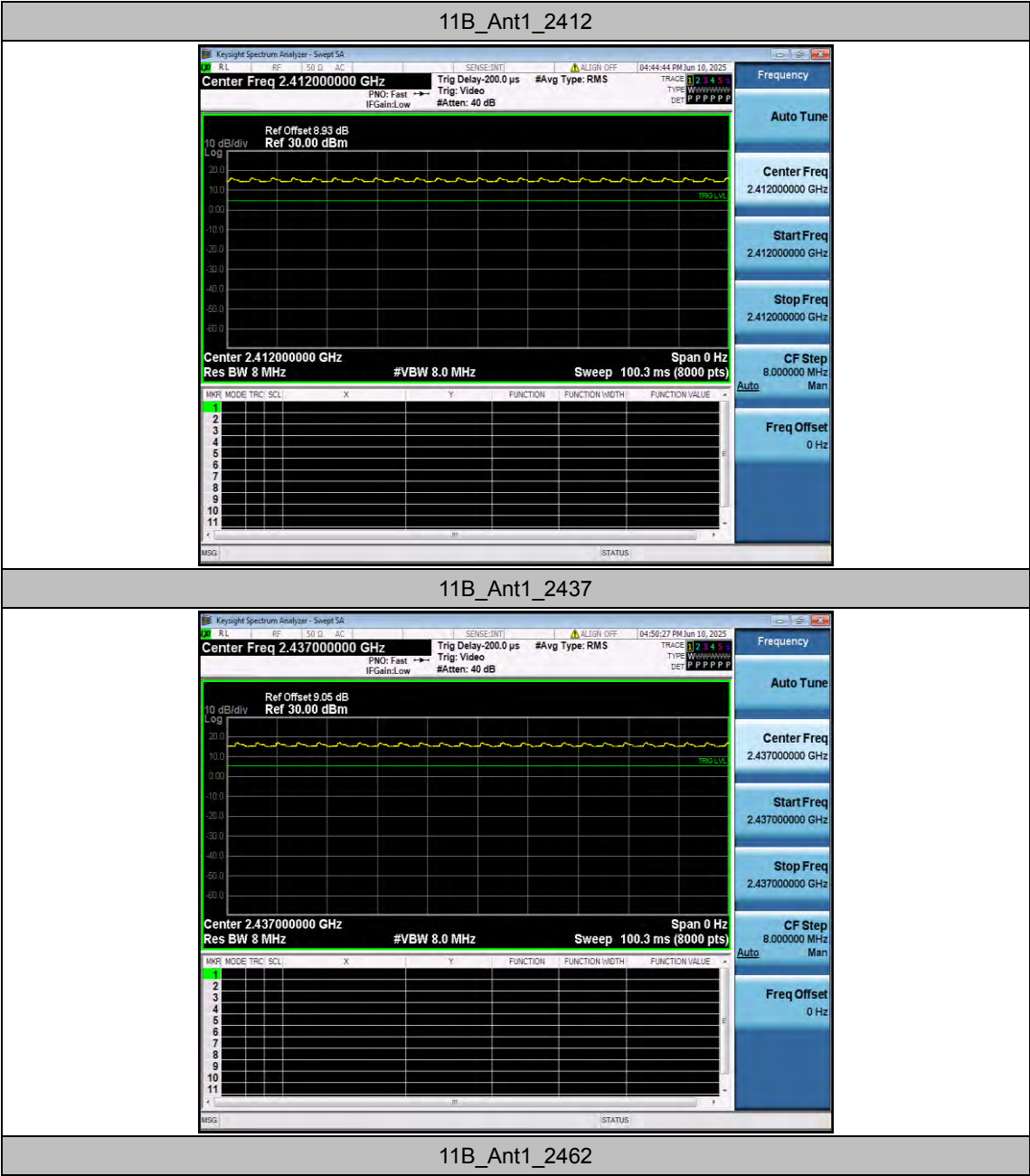


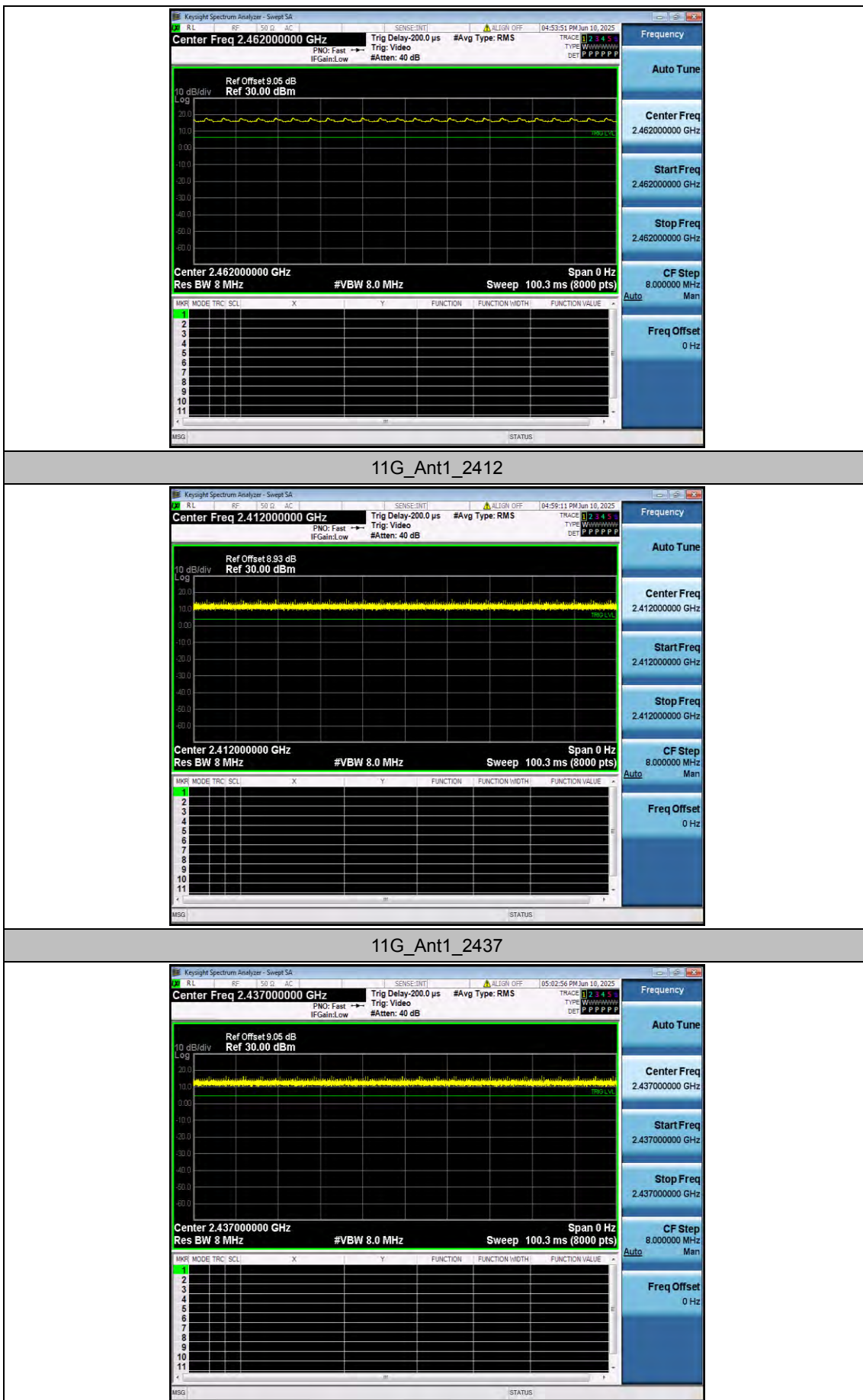
Appendix A.7: Duty Cycle

Test Result

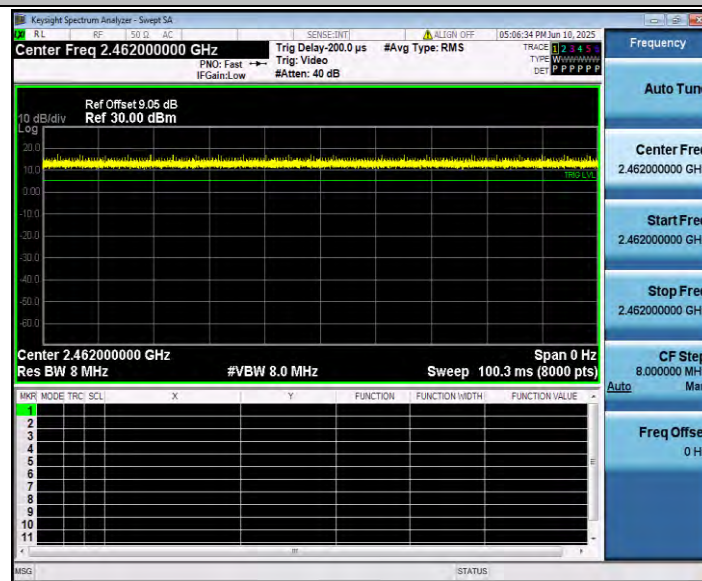
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11B	Ant1	2412	100.00	100.00	100.00	0.00	0.01
		2437	100.00	100.00	100.00	0.00	0.01
		2462	100.00	100.00	100.00	0.00	0.01
11G	Ant1	2412	100.00	100.00	100.00	0.00	0.01
		2437	100.00	100.00	100.00	0.00	0.01
		2462	100.00	100.00	100.00	0.00	0.01
11N20SISO	Ant1	2412	100.00	100.00	100.00	0.00	0.01
		2437	100.00	100.00	100.00	0.00	0.01
		2462	100.00	100.00	100.00	0.00	0.01

Test Graphs

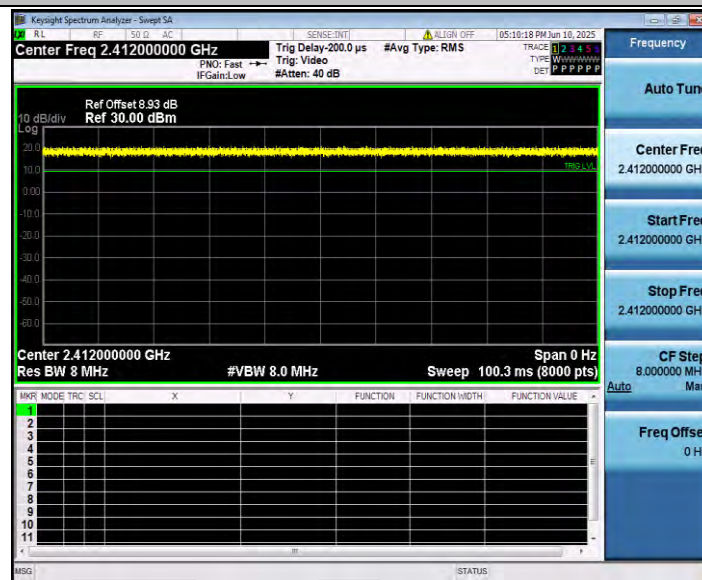




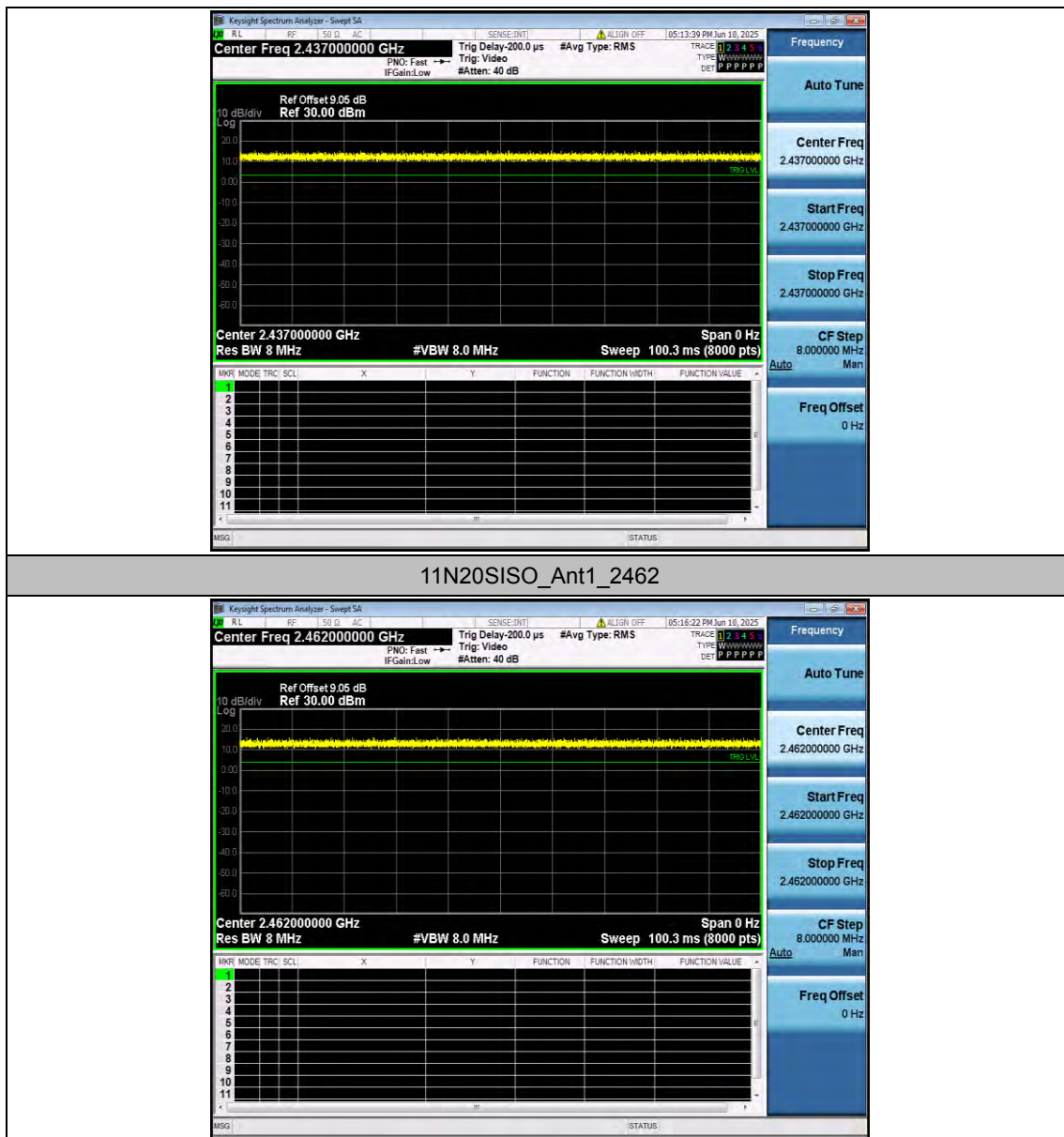
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.8: Emissions in Restricted Bands

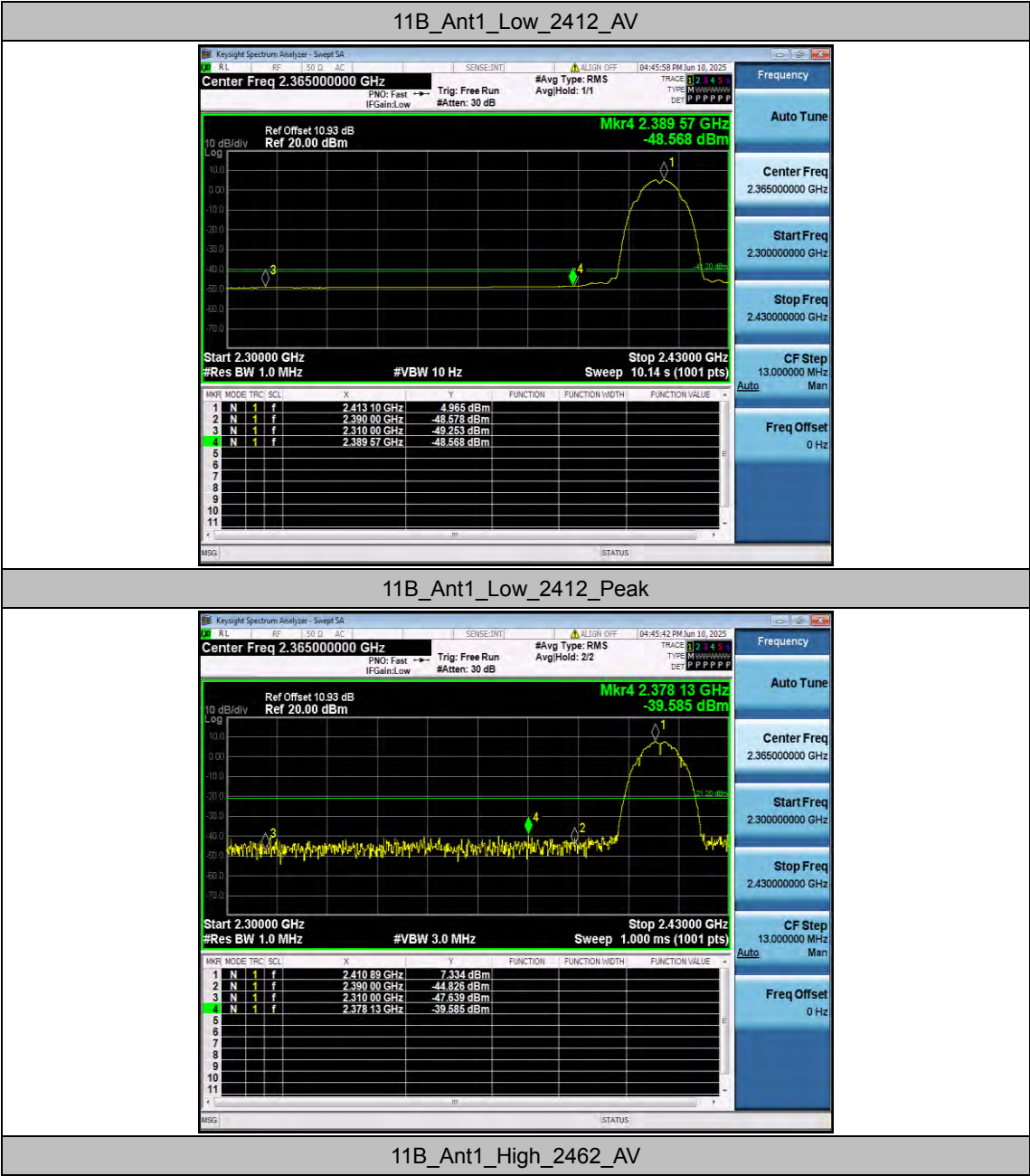
Test Result

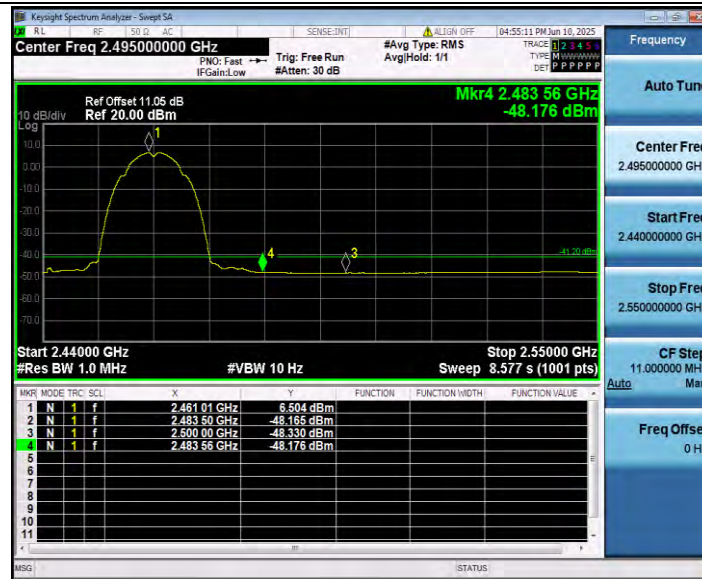
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.25	≤-41.20	45.95	≤54	PASS
				AV	2389.570	-48.57	≤-41.20	46.63	≤54	PASS
				AV	2390.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2310.000	-47.64	≤-21.20	47.56	≤74	PASS
				Peak	2378.130	-39.59	≤-21.20	55.61	≤74	PASS
				Peak	2390.000	-44.83	≤-21.20	50.37	≤74	PASS
		High	2462	AV	2483.500	-48.17	≤-41.20	47.03	≤54	PASS
				AV	2483.560	-48.18	≤-41.20	47.02	≤54	PASS
				AV	2500.000	-48.33	≤-41.20	46.87	≤54	PASS
				Peak	2483.500	-45.05	≤-21.20	50.15	≤74	PASS
				Peak	2493.350	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2500.000	-47.31	≤-21.20	47.89	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.31	≤-41.20	45.89	≤54	PASS
				AV	2389.830	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2390.000	-48.24	≤-41.20	46.96	≤54	PASS
				Peak	2310.000	-44.77	≤-21.20	50.43	≤74	PASS
				Peak	2389.700	-40.02	≤-21.20	55.18	≤74	PASS
				Peak	2390.000	-46.53	≤-21.20	48.67	≤74	PASS
		High	2462	AV	2483.500	-47.76	≤-41.20	47.44	≤54	PASS
				AV	2483.560	-47.78	≤-41.20	47.42	≤54	PASS
				AV	2500.000	-48.33	≤-41.20	46.87	≤54	PASS
				Peak	2483.500	-42.83	≤-21.20	52.37	≤74	PASS
				Peak	2487.520	-39.58	≤-21.20	55.62	≤74	PASS
				Peak	2500.000	-42.37	≤-21.20	52.83	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2389.960	-44.39	≤-41.20	50.81	≤54	PASS
				AV	2390.000	-44.39	≤-41.20	50.81	≤54	PASS
				Peak	2310.000	-40.05	≤-21.20	55.15	≤74	PASS
				Peak	2389.180	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2390.000	-41.61	≤-21.20	53.59	≤74	PASS
		High	2462	AV	2483.500	-47.61	≤-41.20	47.59	≤54	PASS
				AV	2483.560	-47.65	≤-41.20	47.55	≤54	PASS
				AV	2500.000	-48.3	≤-41.20	46.90	≤54	PASS
				Peak	2483.500	-44.59	≤-21.20	50.61	≤74	PASS
				Peak	2485.540	-40.27	≤-21.20	54.93	≤74	PASS
				Peak	2500.000	-43.23	≤-21.20	51.97	≤74	PASS

Note:

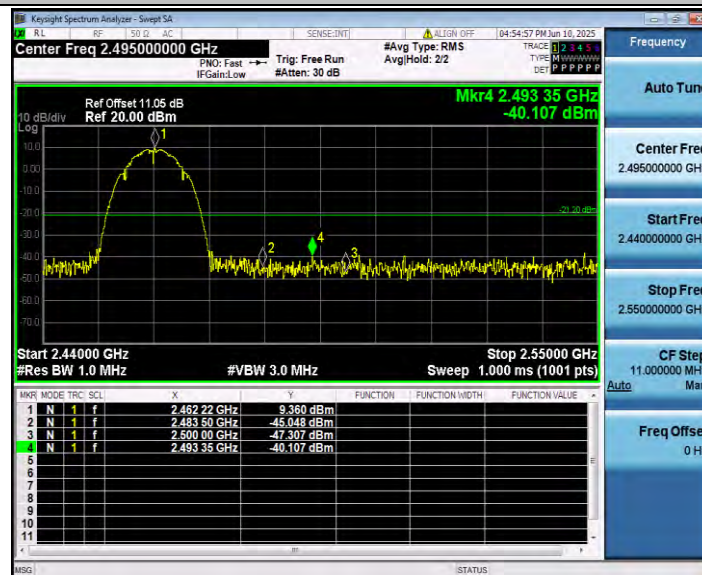
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





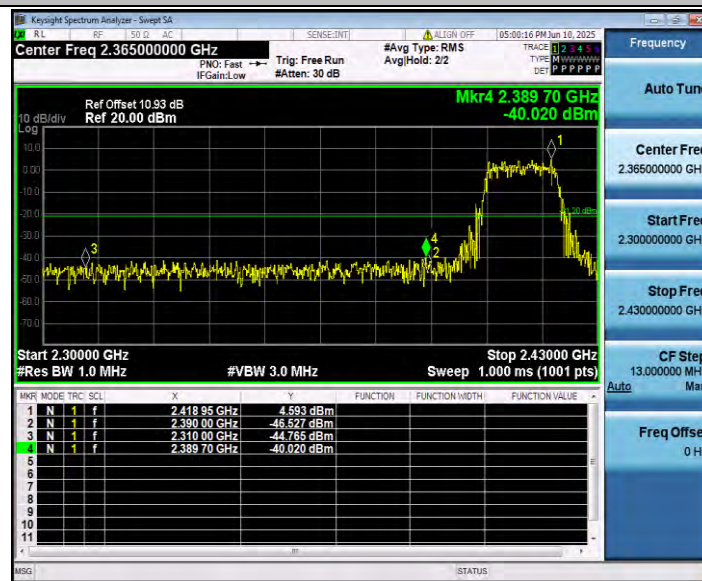
11B_Ant1_High_2462_Peak



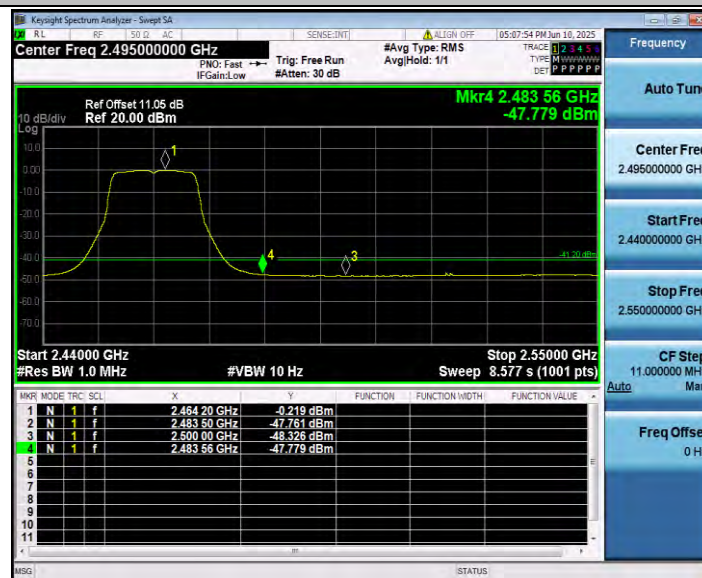
11G_Ant1_Low_2412_AV



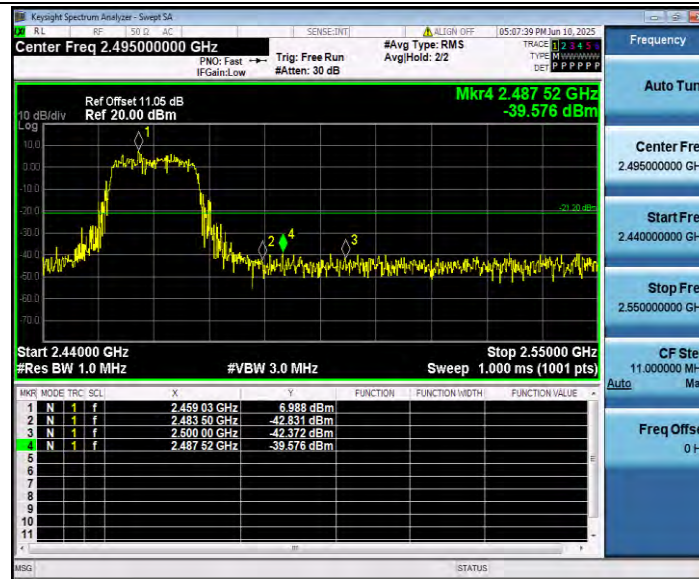
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



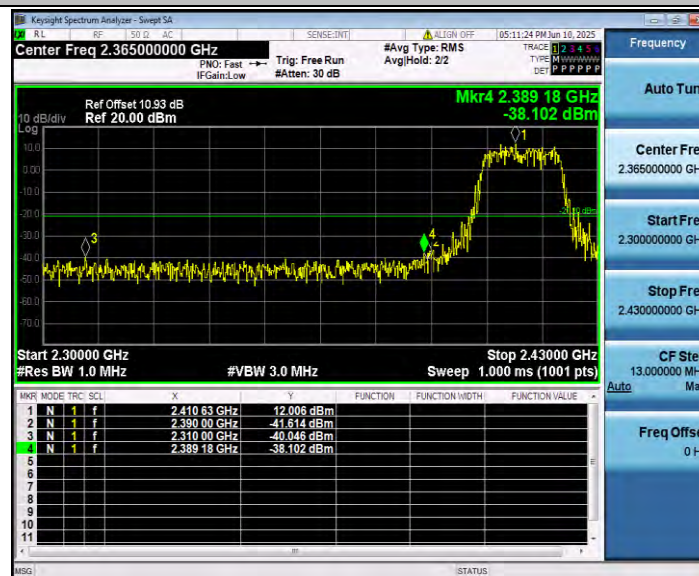
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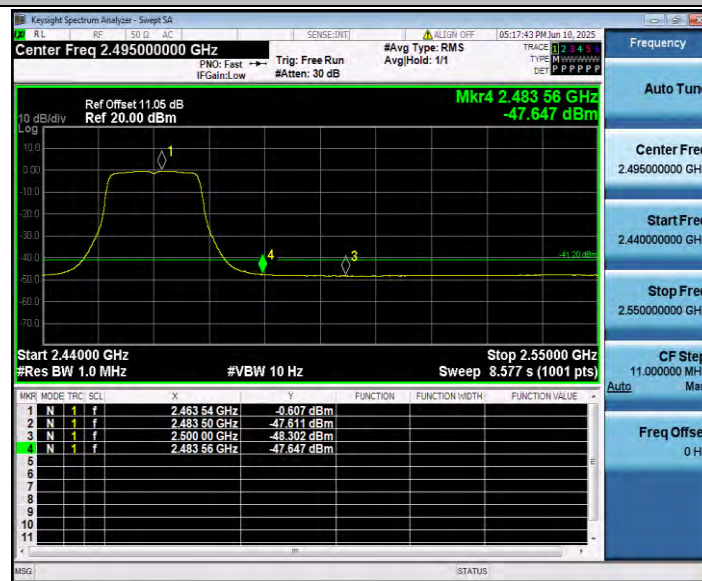
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

