

Case No. : <u>GTS20250723001-1-2</u>	
Ambient Condition: <u>24 °C, 50%RH,</u>	
Test Date: <u>2025.7.30-2025.8.25</u>	Test Engineer: <u>Evan ouyang</u>

AppendixA.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.040	2406.920	2417.960	0.5	PASS
		2437	11.080	2431.920	2443.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.800	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
		2437	17.760	2428.080	2445.840	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS

Test Graphs





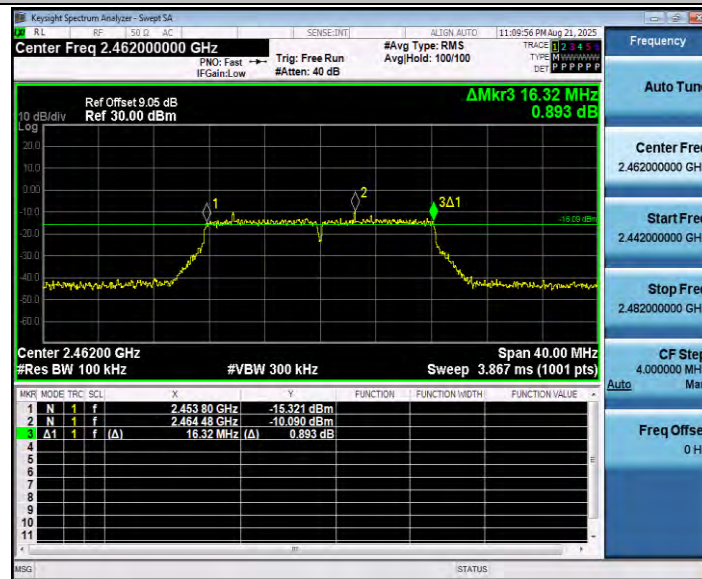
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

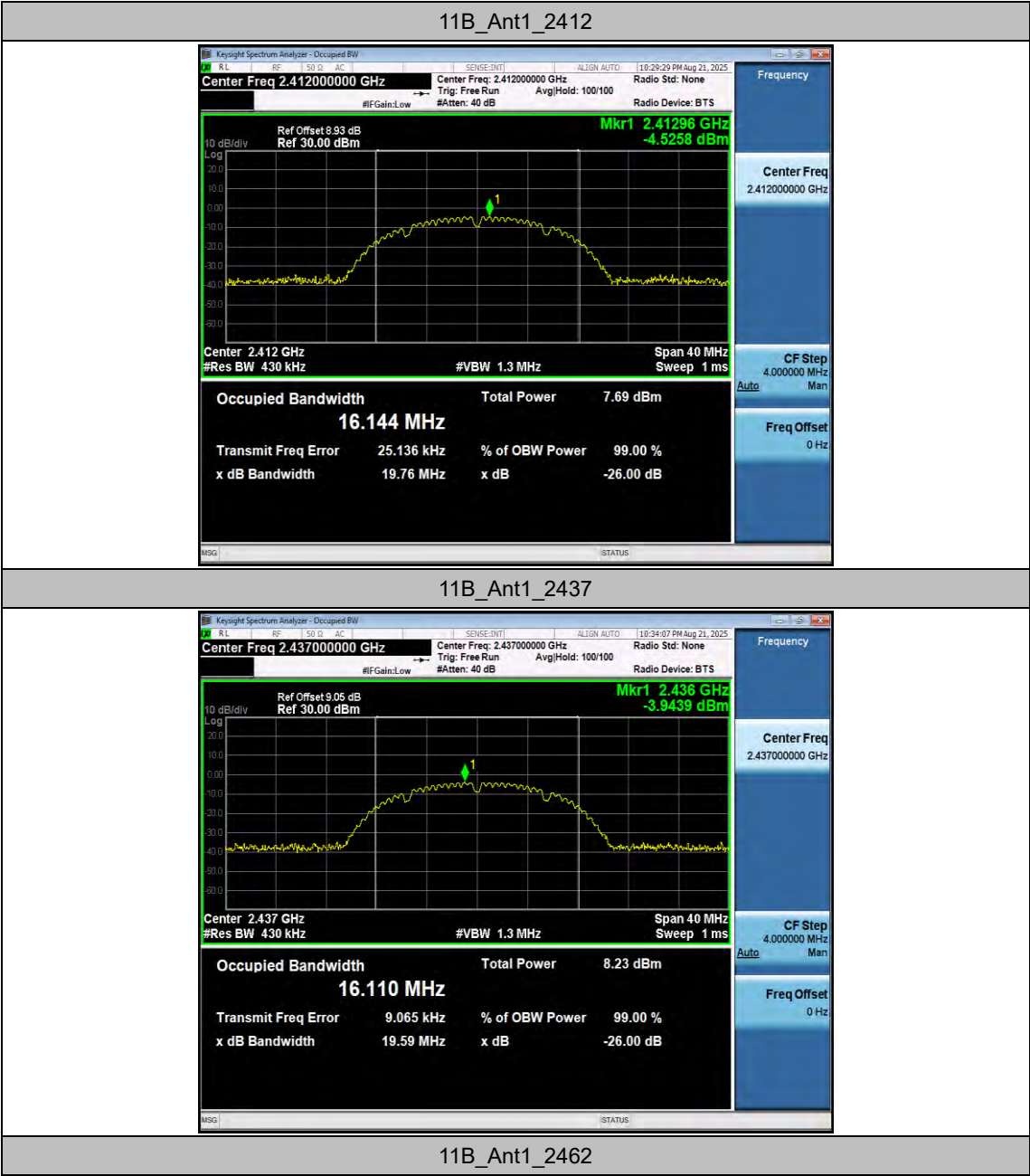


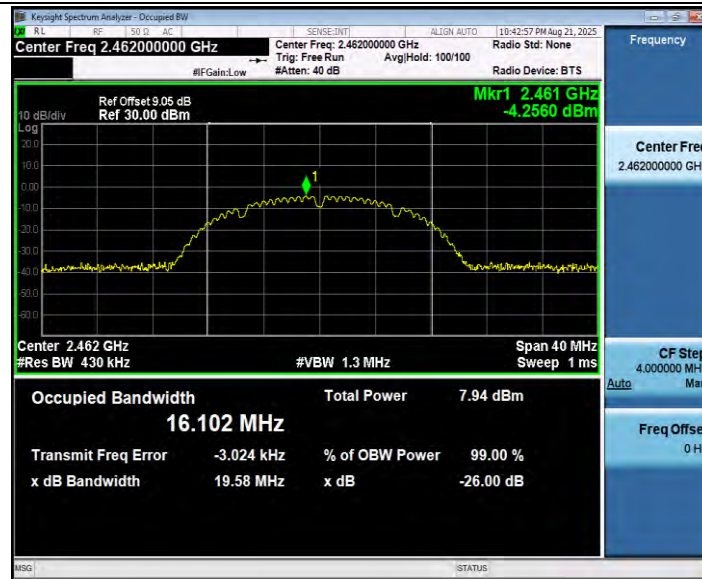
AppendixA.2: Occupied Channel Bandwidth

Test Result

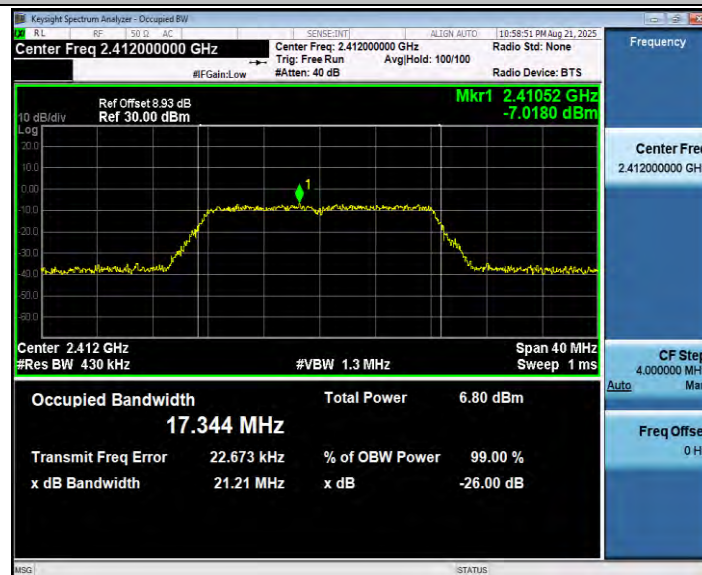
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	16.144	2403.9531	2420.0971	---	---
		2437	16.110	2428.9541	2445.0641	---	---
		2462	16.102	2453.9460	2470.0480	---	---
11G	Ant1	2412	17.344	2403.3507	2420.6947	---	---
		2437	17.222	2428.3539	2445.5759	---	---
		2462	17.279	2453.3711	2470.6501	---	---
11N20SISO	Ant1	2412	18.110	2402.9394	2421.0494	---	---
		2437	18.141	2427.9565	2446.0975	---	---
		2462	18.187	2452.9391	2471.1261	---	---

Test Graphs

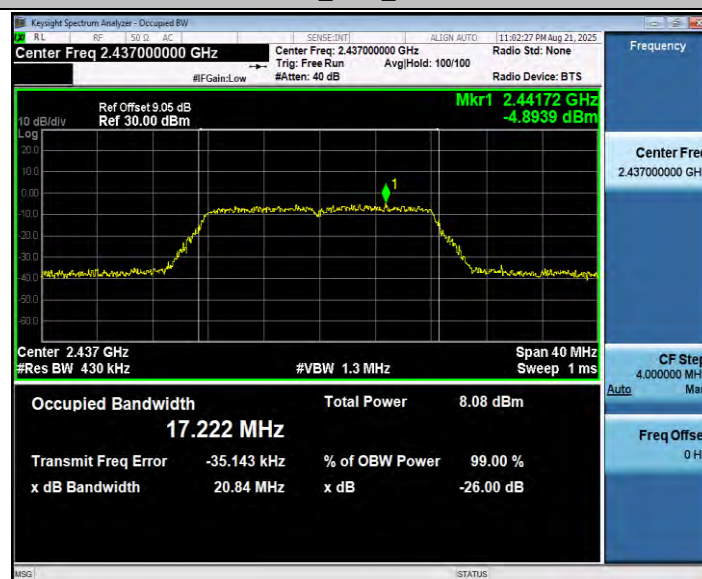


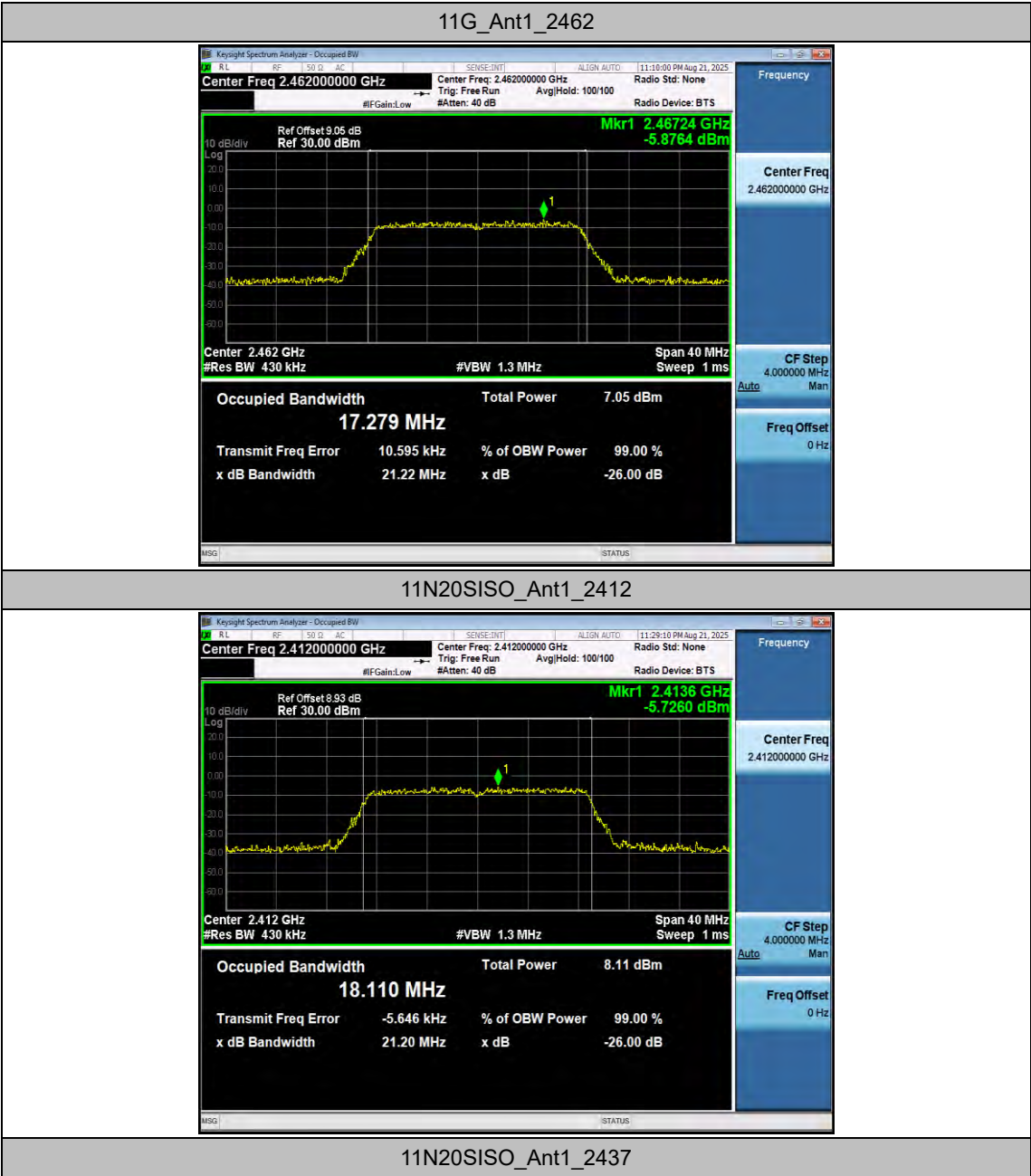


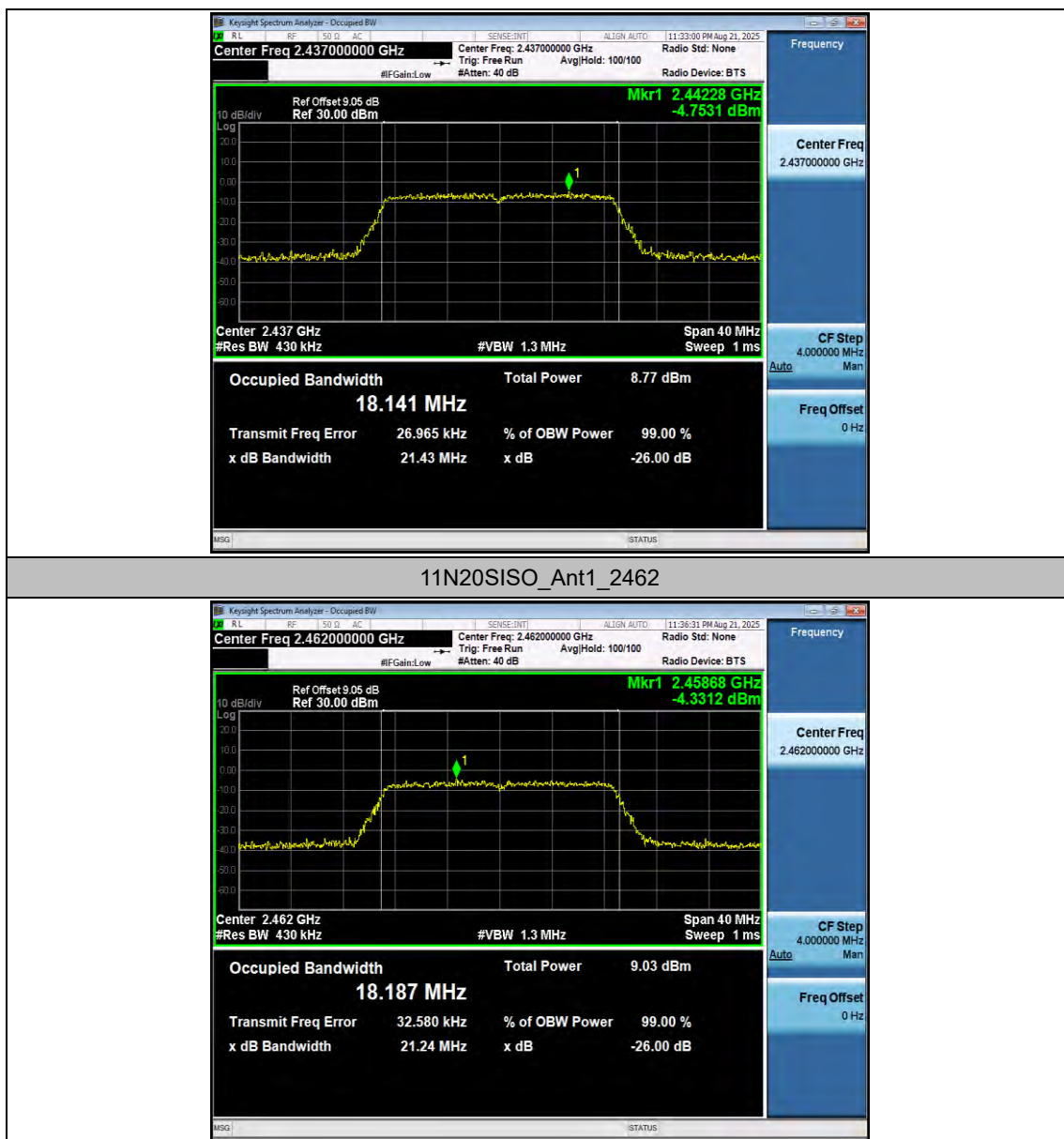
11G_Ant1_2412



11G_Ant1_2437







AppendixA.3: Maximum conducted output power

Test Result -CHP

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.76	≤30.00	PASS
		2437	8.31	≤30.00	PASS
		2462	8.95	≤30.00	PASS
11G	Ant1	2412	8.99	≤30.00	PASS
		2437	8.65	≤30.00	PASS
		2462	8.18	≤30.00	PASS
11N20SISO	Ant1	2412	8.53	≤30.00	PASS
		2437	8.02	≤30.00	PASS
		2462	8.92	≤30.00	PASS

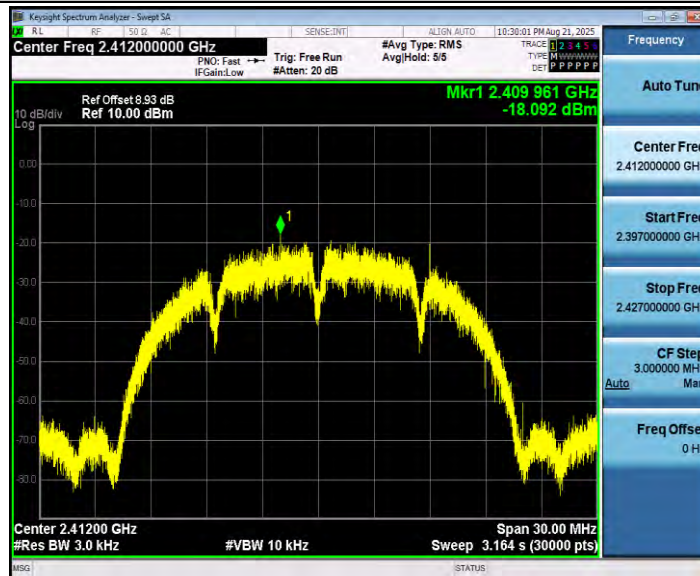
AppendixA.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.09	≤8.00	PASS
		2437	-14.03	≤8.00	PASS
		2462	-19.74	≤8.00	PASS
11G	Ant1	2412	-23.44	≤8.00	PASS
		2437	-24.11	≤8.00	PASS
		2462	-24.01	≤8.00	PASS
11N20SISO	Ant1	2412	-23.55	≤8.00	PASS
		2437	-22.76	≤8.00	PASS
		2462	-23.25	≤8.00	PASS

Test Graphs

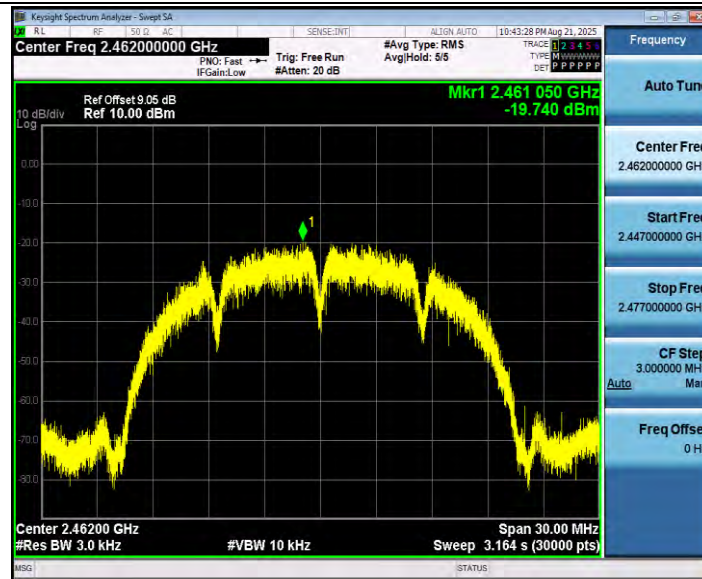
11B_Ant1_2412



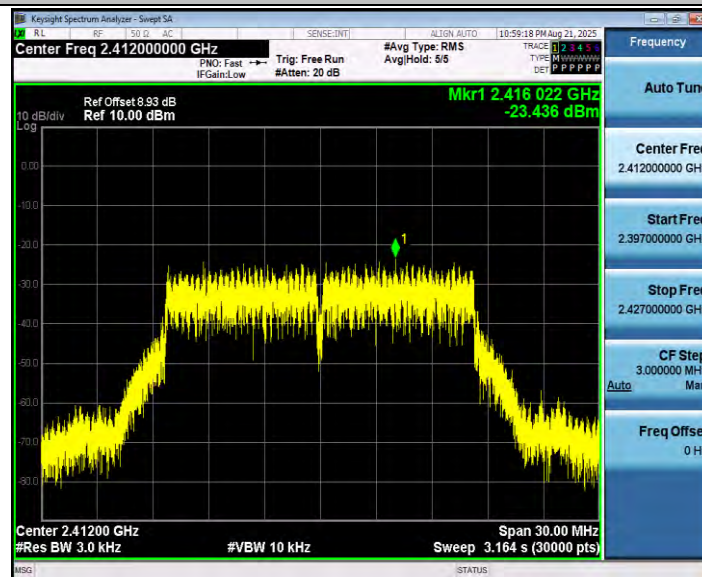
11B_Ant1_2437



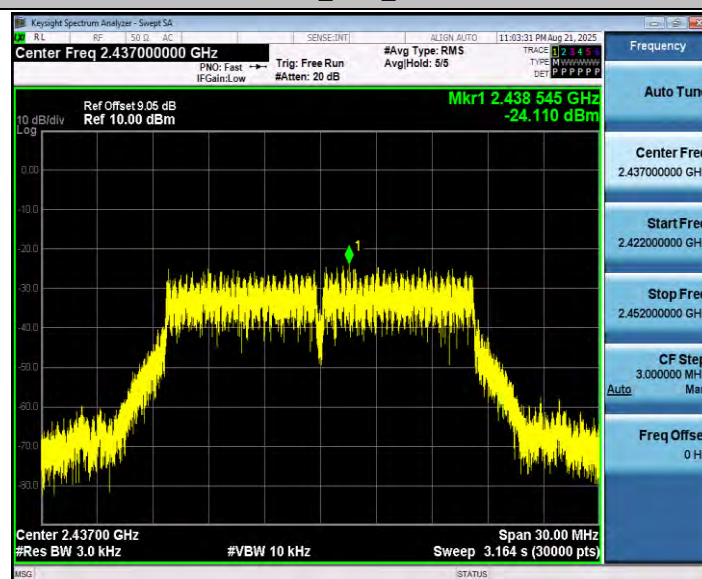
11B_Ant1_2462



11G_Ant1_2412



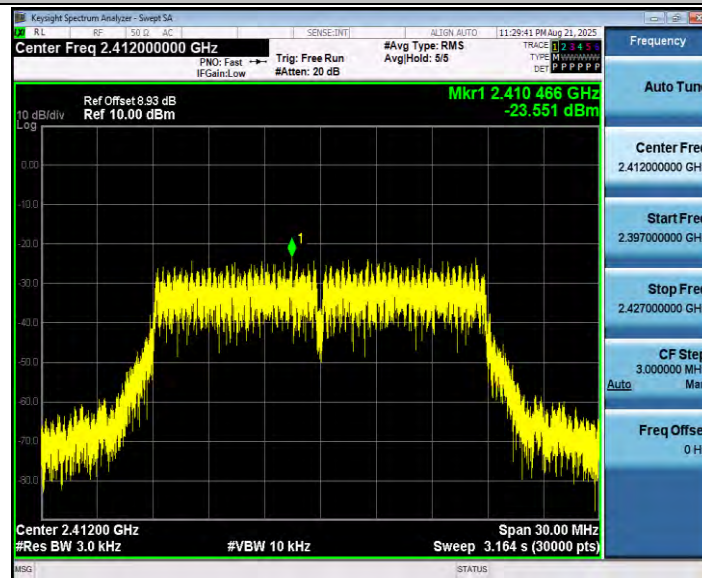
11G_Ant1_2437



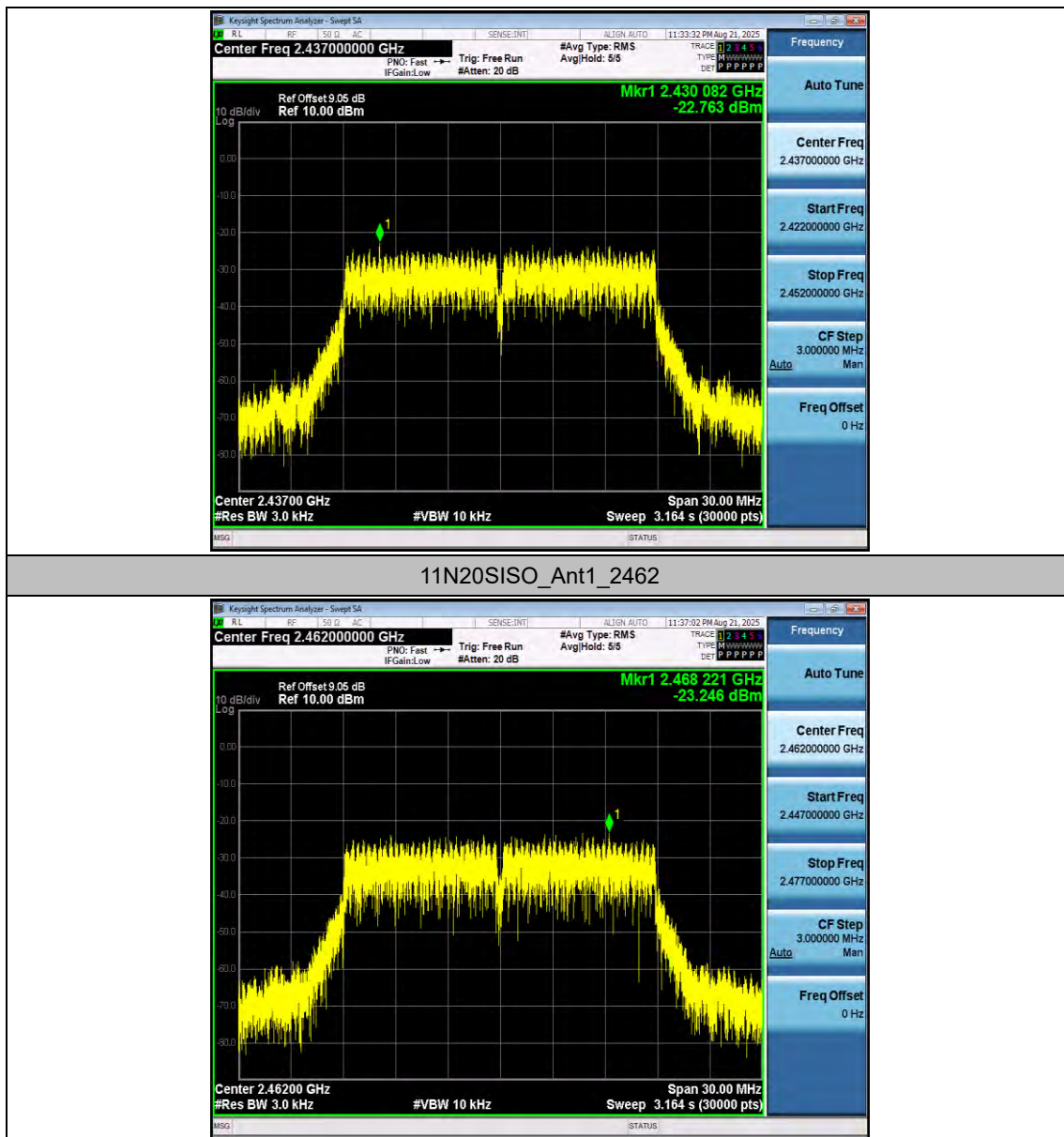
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



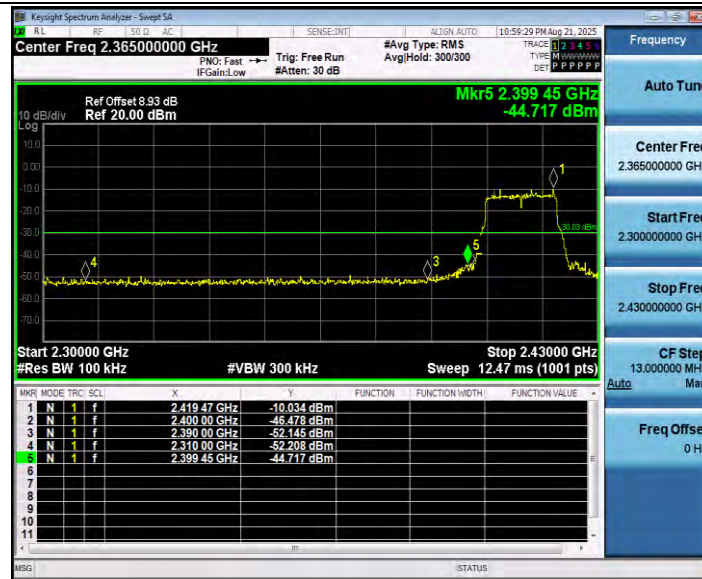
Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.95	-46.61	≤ -24.95	PASS
		High	2462	-4.21	-48.63	≤ -24.21	PASS
11G	Ant1	Low	2412	-10.03	-44.72	≤ -30.03	PASS
		High	2462	-9.86	-49.22	≤ -29.86	PASS
11N20SISO	Ant1	Low	2412	-9.15	-43.96	≤ -29.15	PASS
		High	2462	-8.72	-48.8	≤ -28.72	PASS

Test Graphs

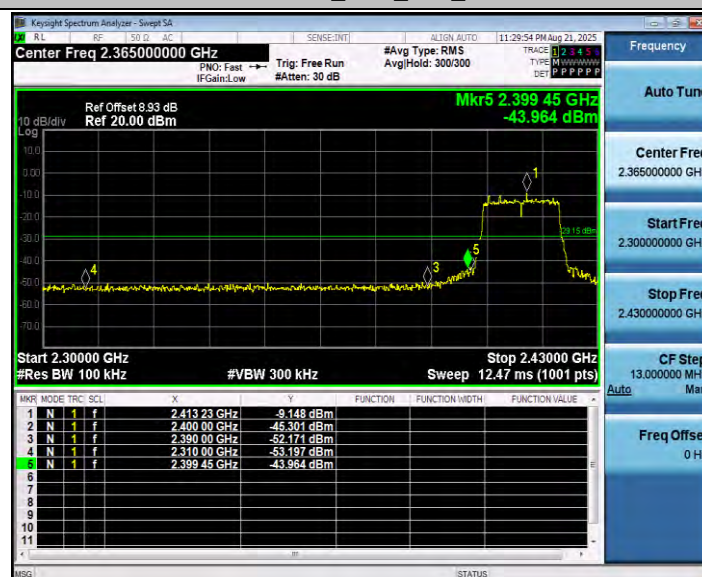


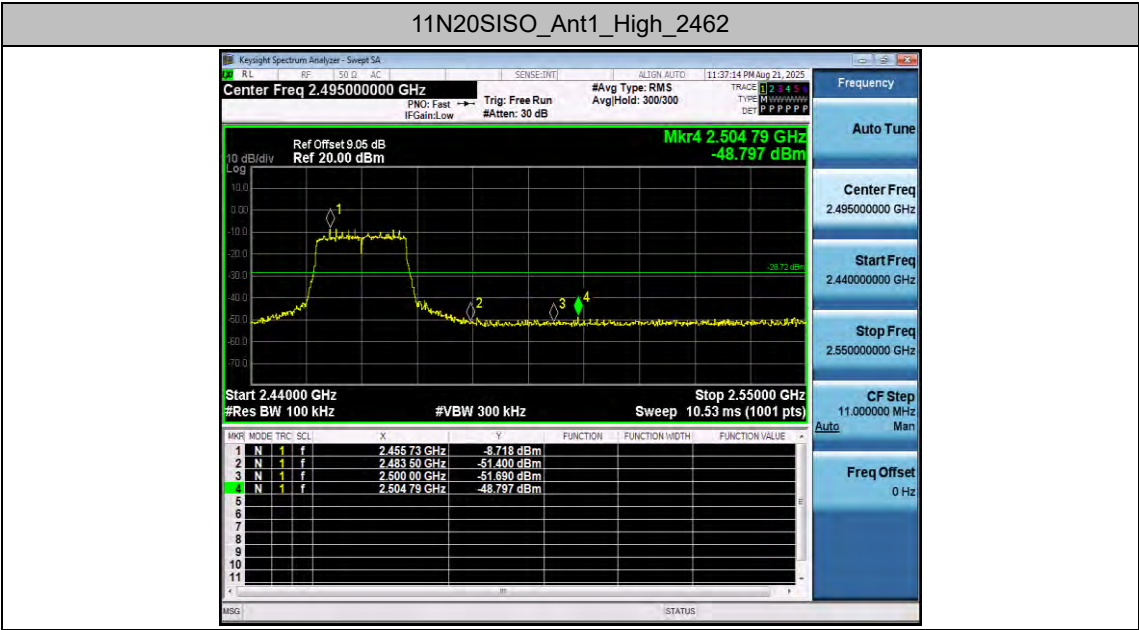


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



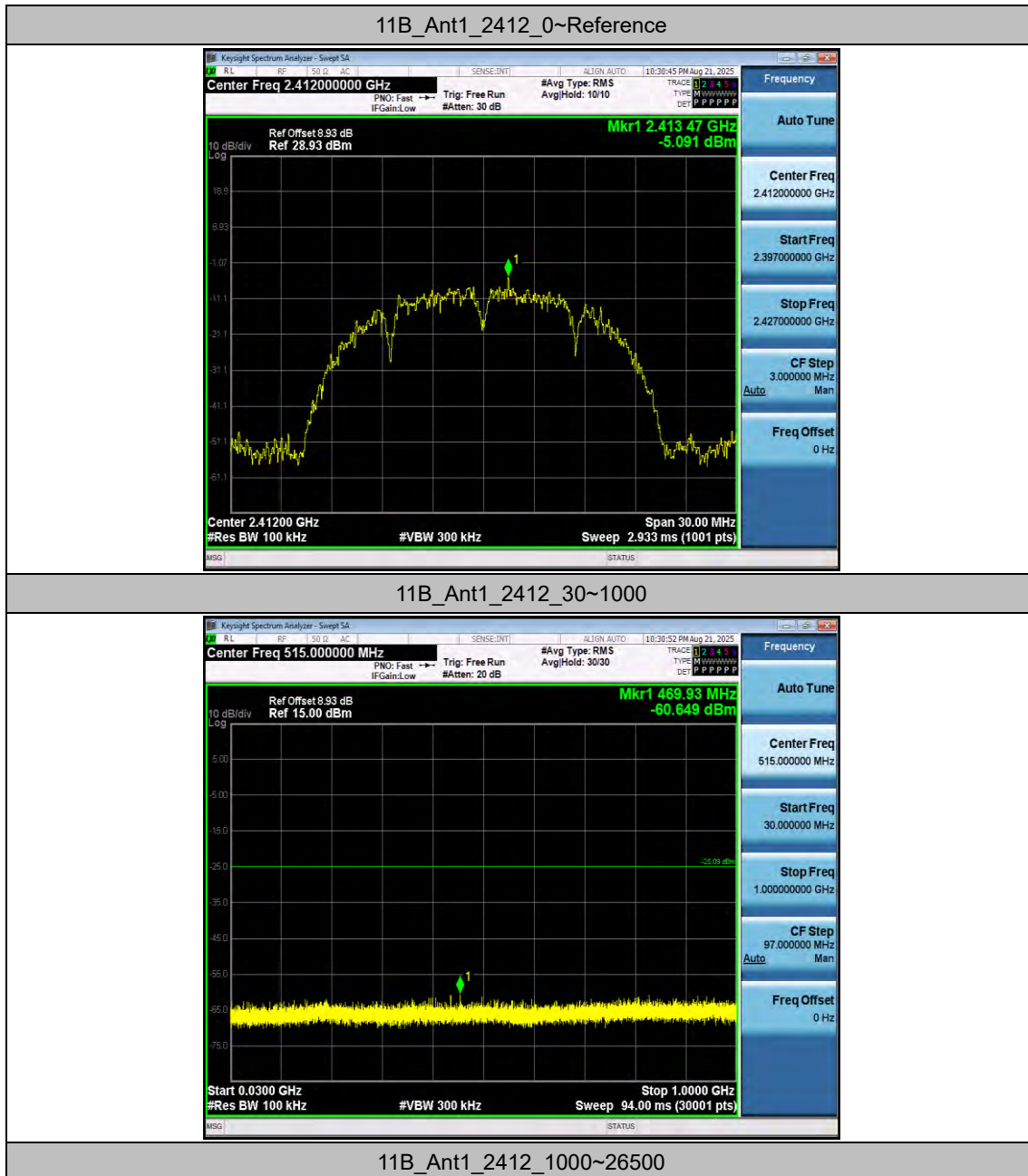


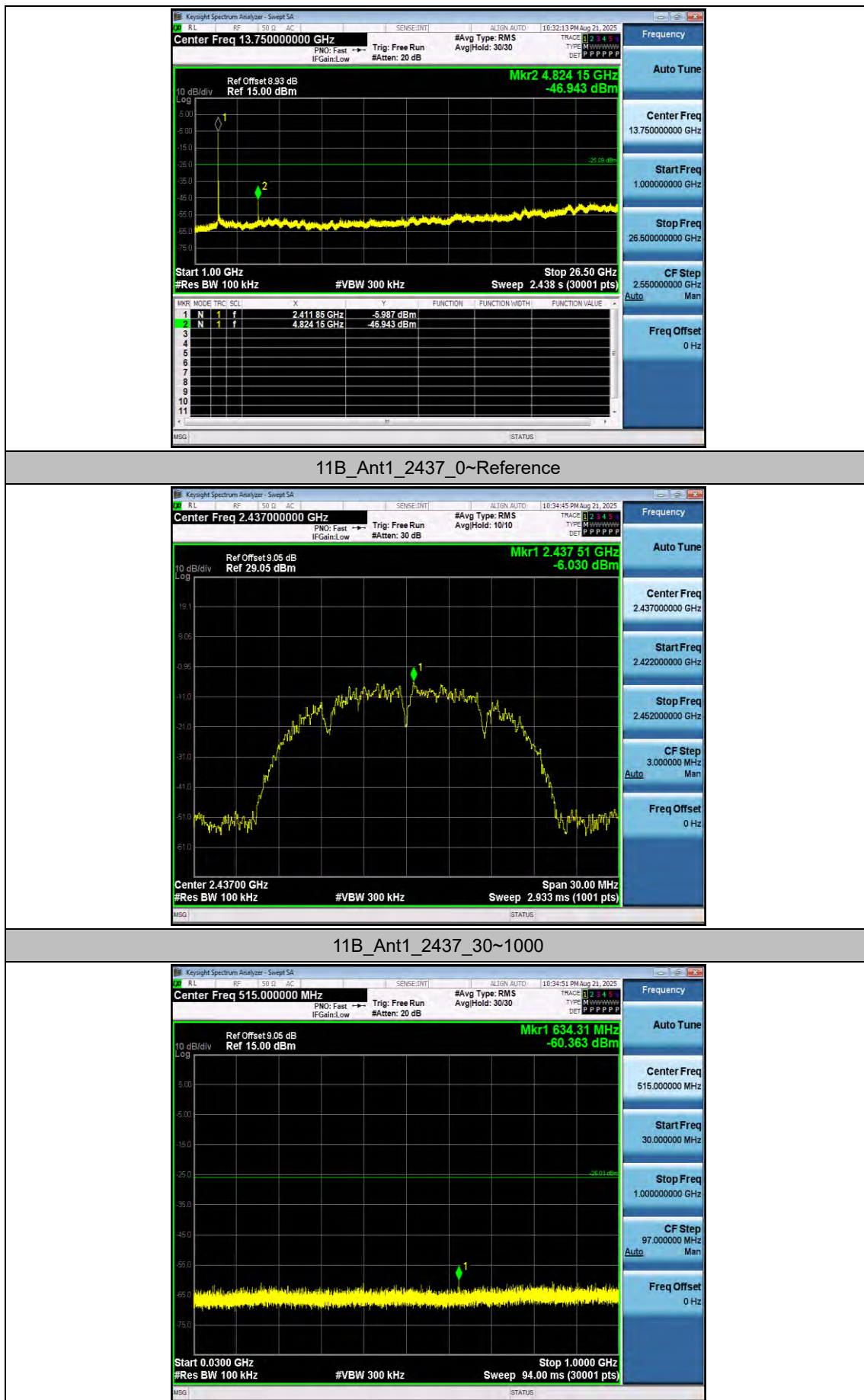
AppendixA.6:Conducted Spurious Emission

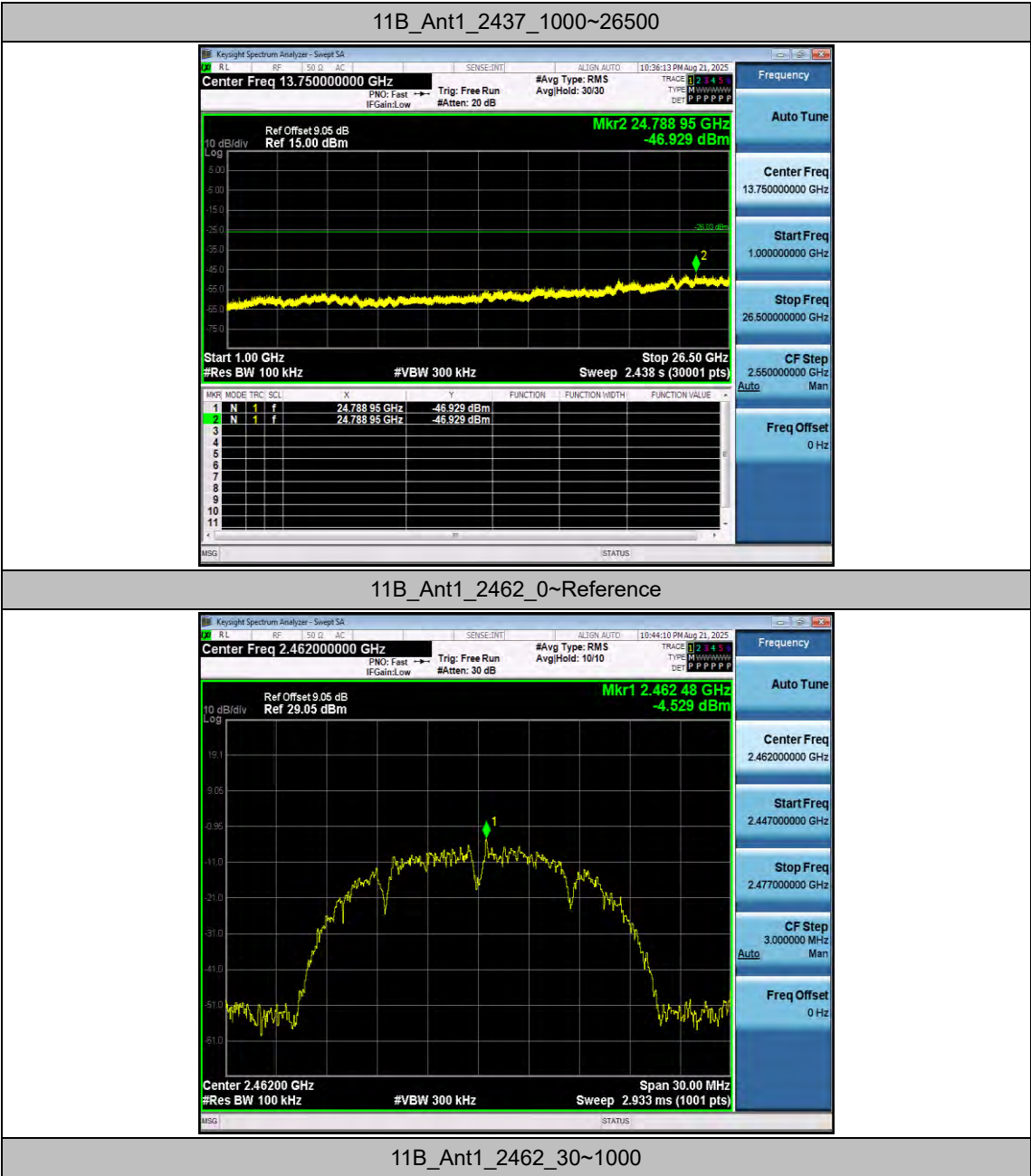
Test Result

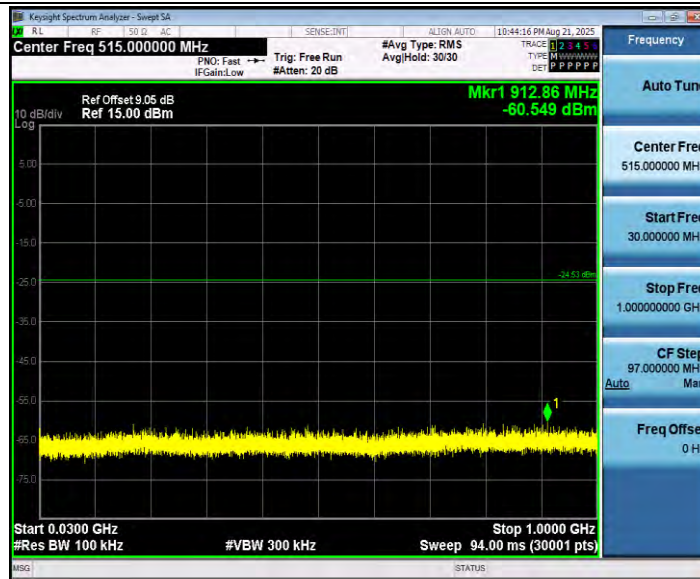
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.09	-5.09	---	PASS
			30~1000	-5.09	-60.65	≤ -25.09	PASS
			1000~26500	-5.09	-46.94	≤ -25.09	PASS
		2437	Reference	-6.03	-6.03	---	PASS
			30~1000	-6.03	-60.36	≤ -26.03	PASS
			1000~26500	-6.03	-46.93	≤ -26.03	PASS
		2462	Reference	-4.53	-4.53	---	PASS
			30~1000	-4.53	-60.55	≤ -24.53	PASS
			1000~26500	-4.53	-45.69	≤ -24.53	PASS
11G	Ant1	2412	Reference	-13.36	-13.36	---	PASS
			30~1000	-13.36	-60.89	≤ -33.36	PASS
			1000~26500	-13.36	-47.71	≤ -33.36	PASS
		2437	Reference	-12.62	-12.62	---	PASS
			30~1000	-12.62	-59.99	≤ -32.62	PASS
			1000~26500	-12.62	-47.38	≤ -32.62	PASS
		2462	Reference	-12.60	-12.60	---	PASS
			30~1000	-12.60	-59.08	≤ -32.6	PASS
			1000~26500	-12.60	-48.11	≤ -32.6	PASS
11N20SISO	Ant1	2412	Reference	-11.58	-11.58	---	PASS
			30~1000	-11.58	-60.68	≤ -31.58	PASS
			1000~26500	-11.58	-47.23	≤ -31.58	PASS
		2437	Reference	-11.77	-11.77	---	PASS
			30~1000	-11.77	-60.84	≤ -31.77	PASS
			1000~26500	-11.77	-46.8	≤ -31.77	PASS
		2462	Reference	-11.36	-11.36	---	PASS
			30~1000	-11.36	-60.47	≤ -31.36	PASS
			1000~26500	-11.36	-47.75	≤ -31.36	PASS

Test Graphs





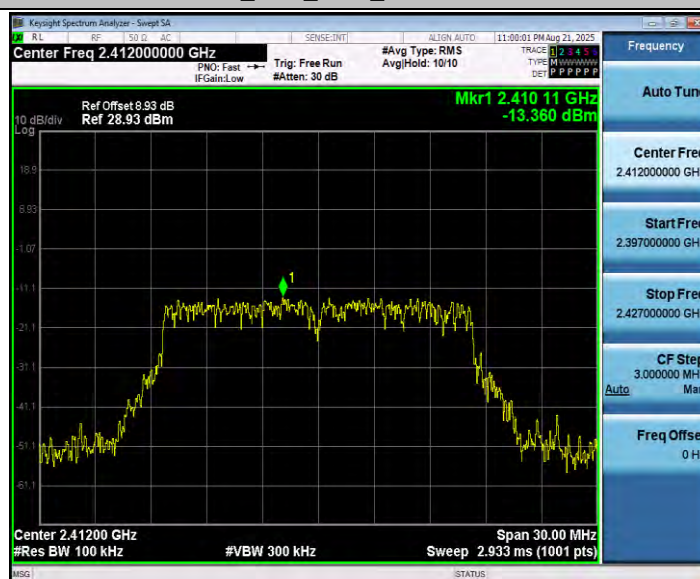


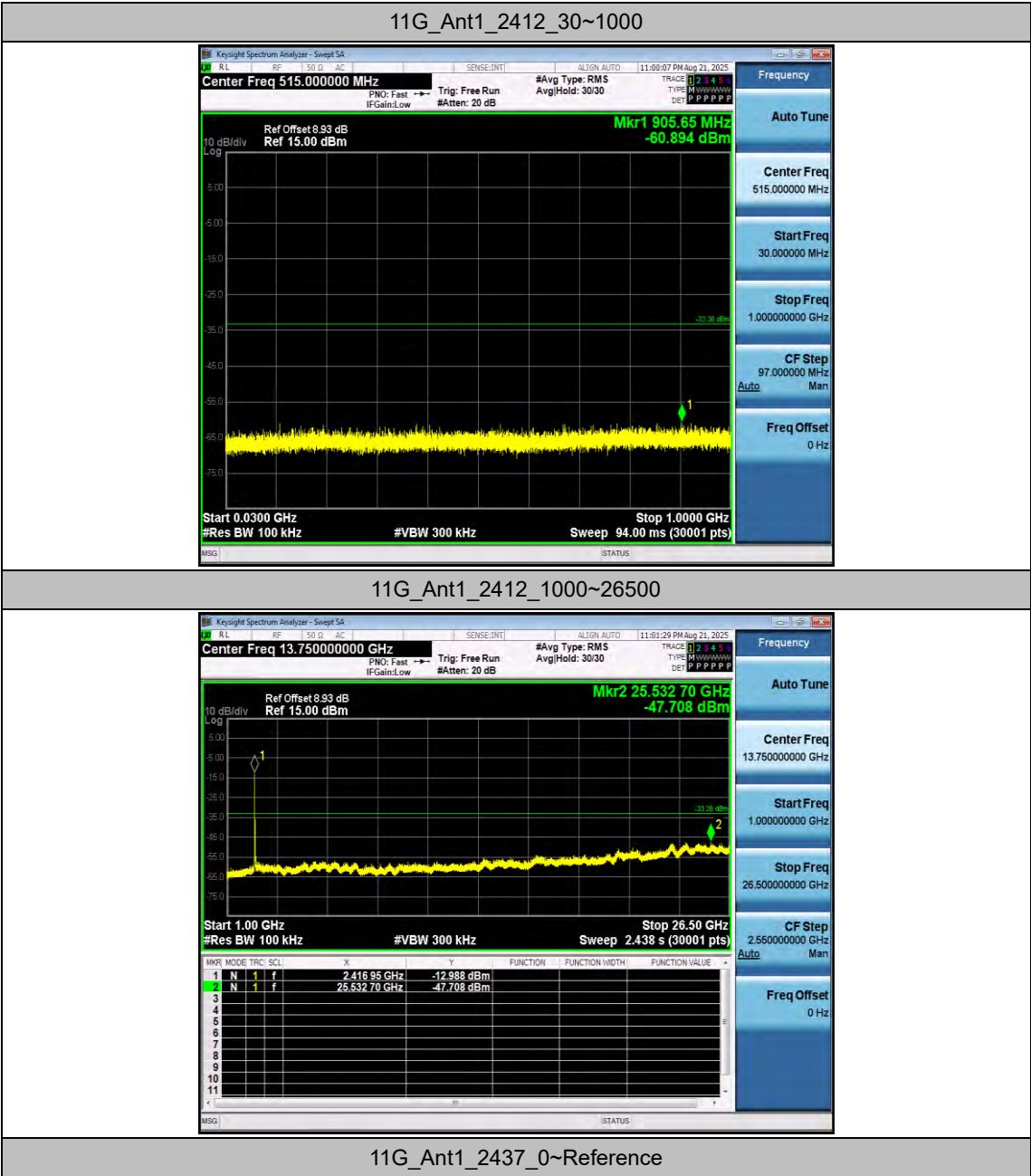


11B_Ant1_2462_1000~26500



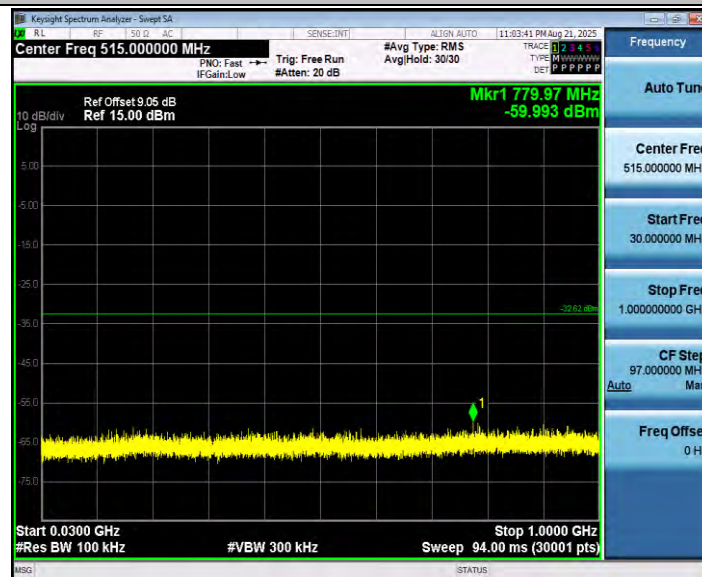
11G_Ant1_2412_0~Reference







11G_Ant1_2437_30~1000



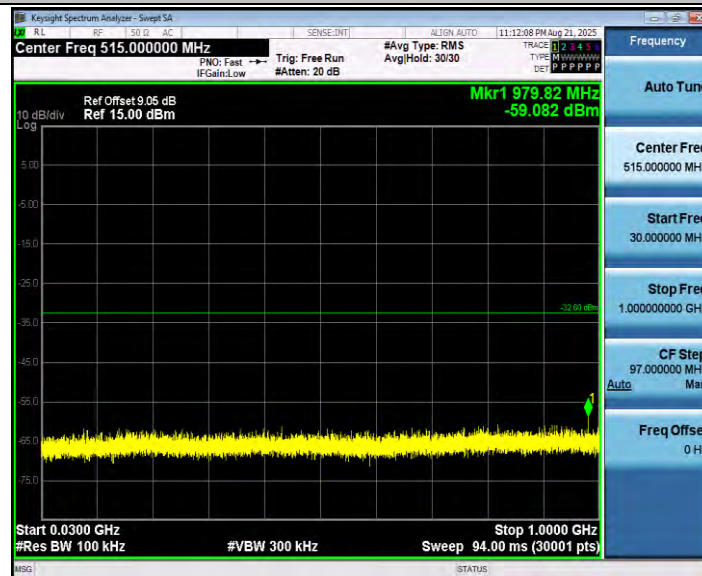
11G_Ant1_2437_1000~26500



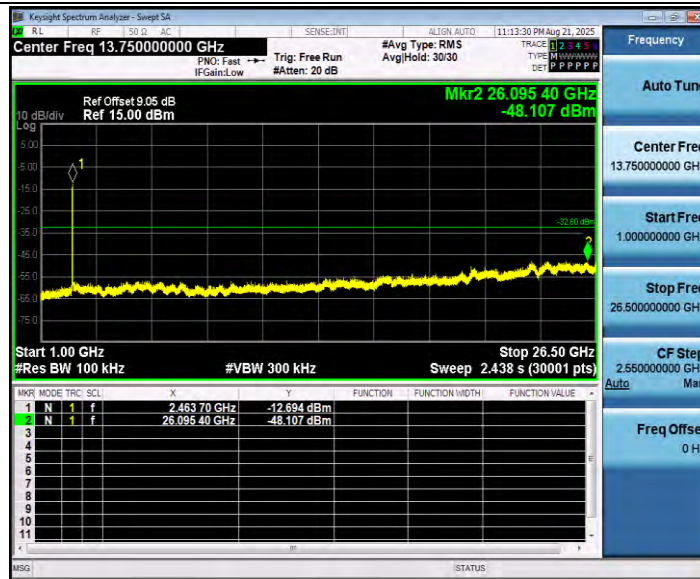
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



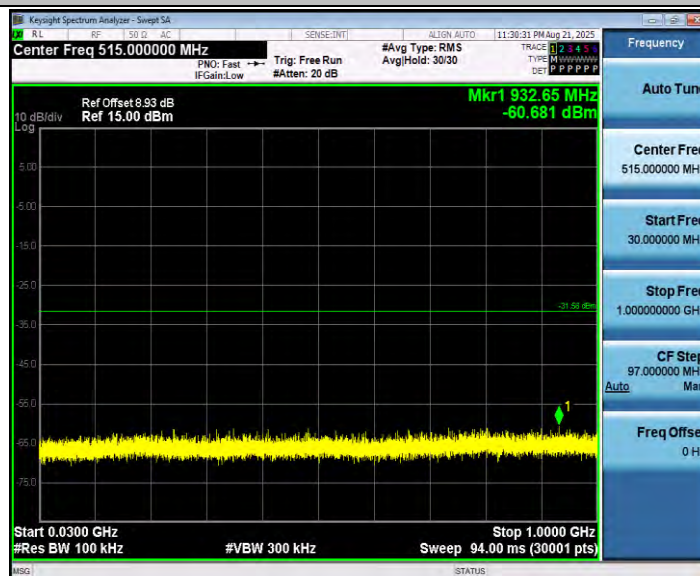
11G_Ant1_2462_1000~26500



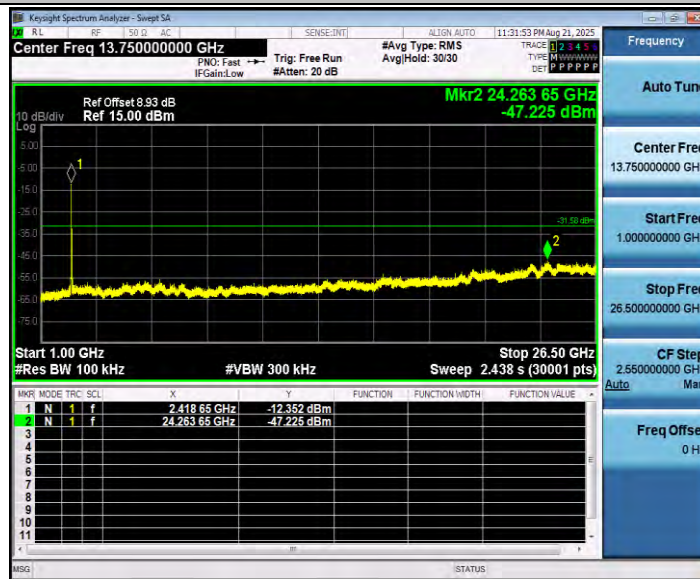
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



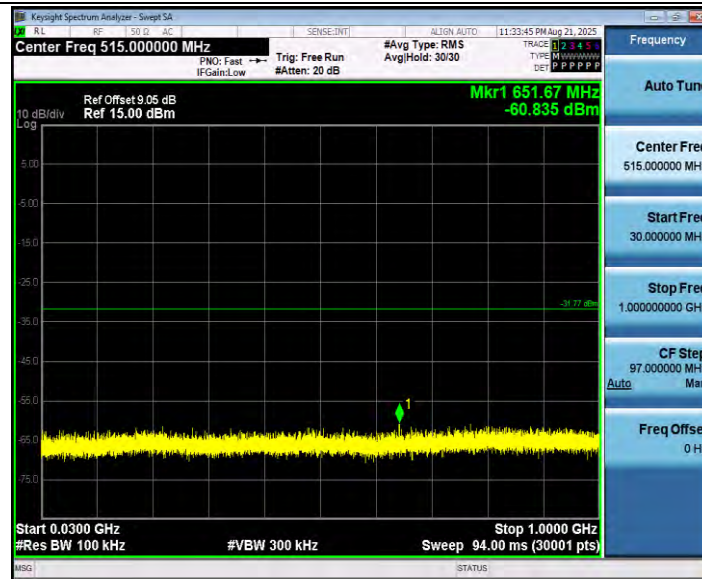
11N20SISO_Ant1_2412_1000~26500



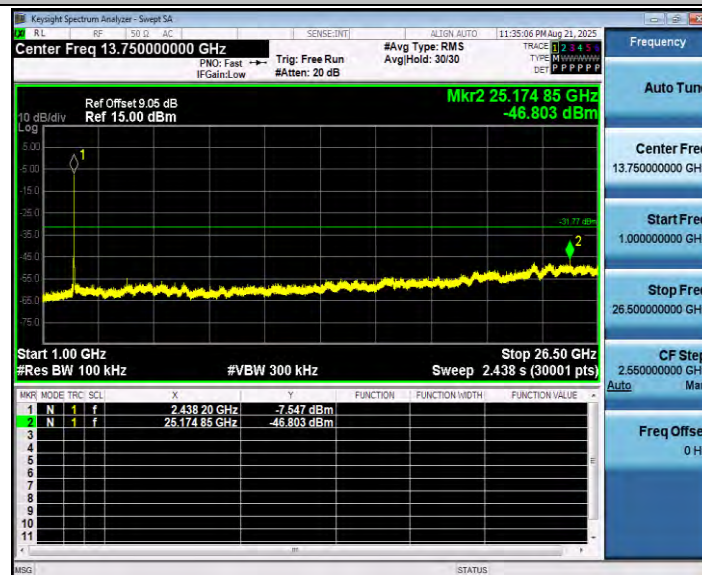
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

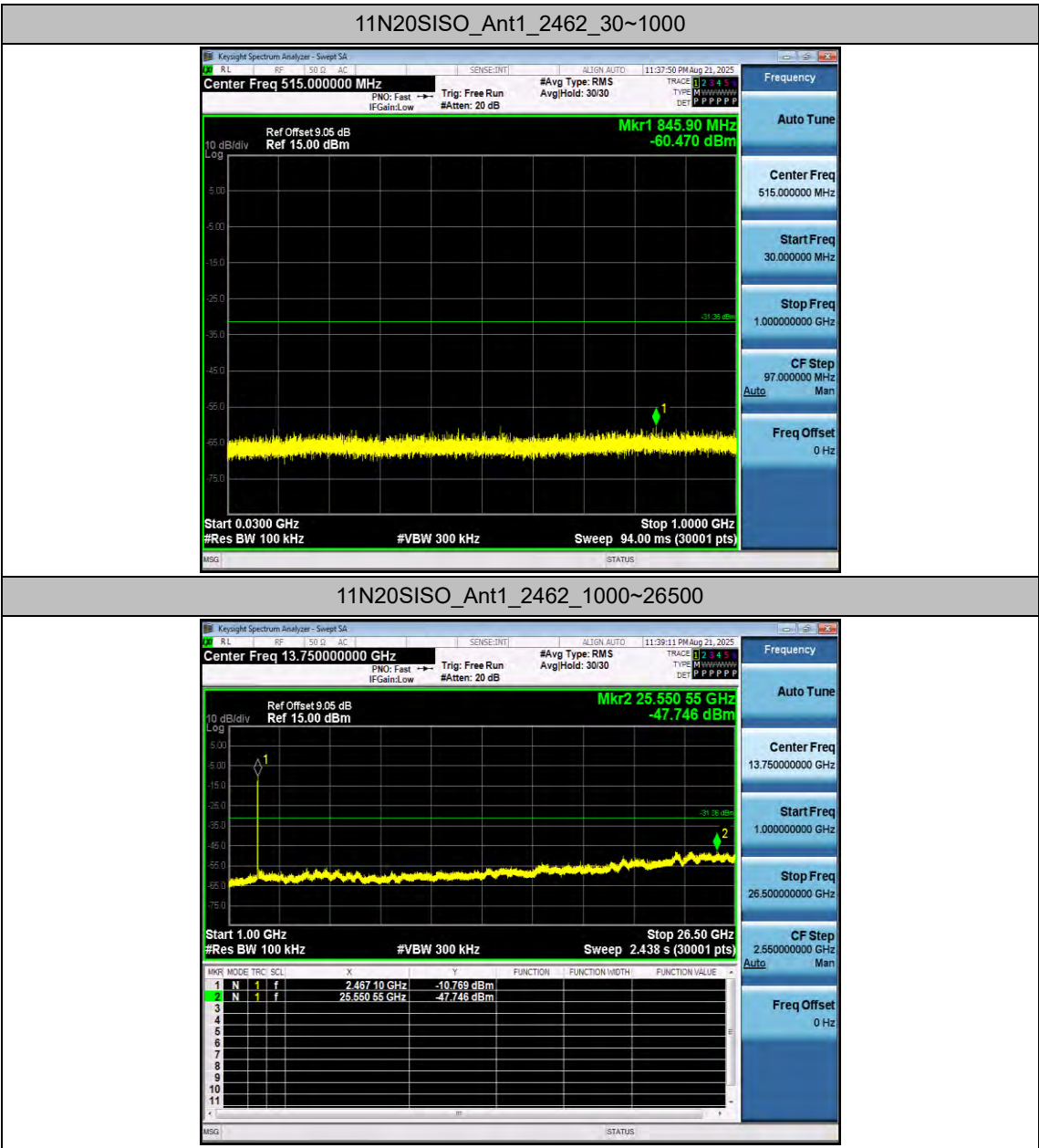


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



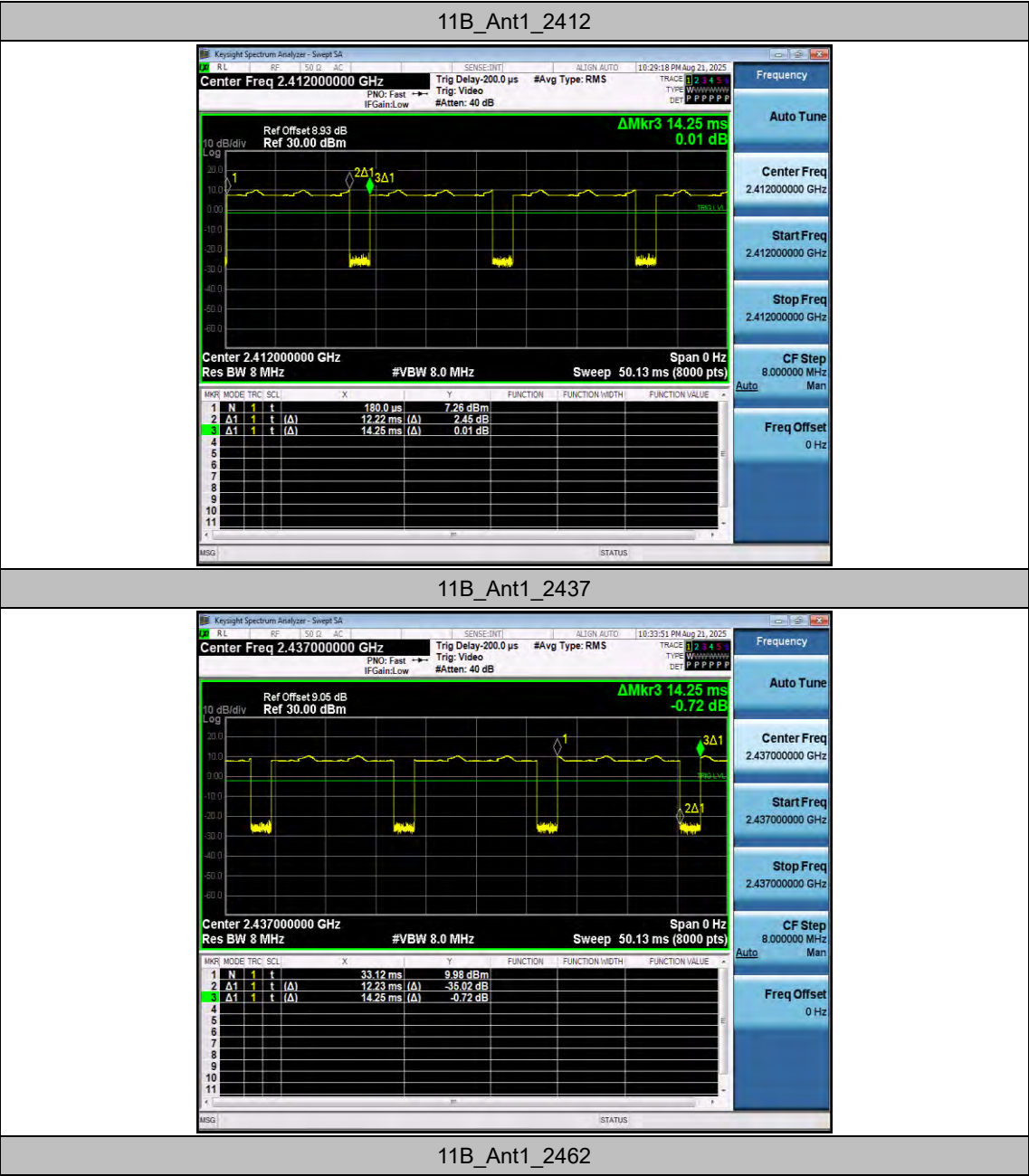


AppendixA.7: Duty Cycle

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	12.22	14.25	85.75	0.67	0.08
		2437	12.23	14.25	85.82	0.66	0.08
		2462	12.22	14.24	85.81	0.66	0.08
11G	Ant1	2412	2.03	4.06	50.00	3.01	0.49
		2437	2.03	4.06	50.00	3.01	0.49
		2462	2.03	4.06	50.00	3.01	0.49
11N20SISO	Ant1	2412	1.89	3.92	48.21	3.17	0.53
		2437	1.89	3.92	48.21	3.17	0.53
		2462	1.89	3.92	48.21	3.17	0.53

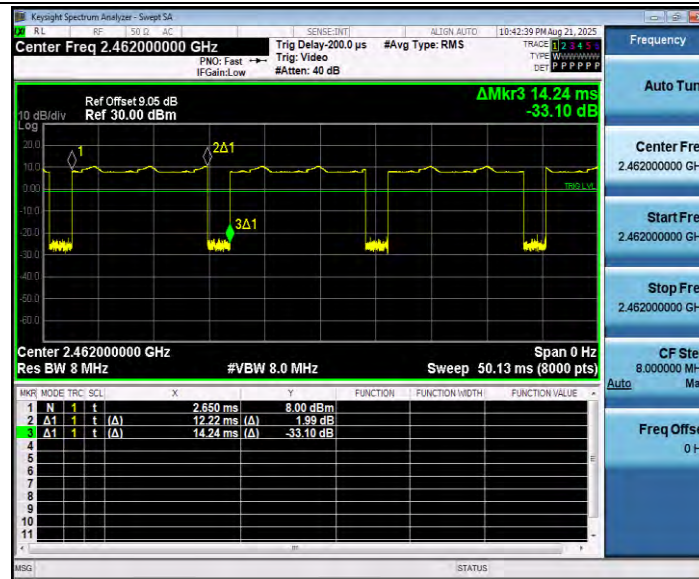
Test Graphs



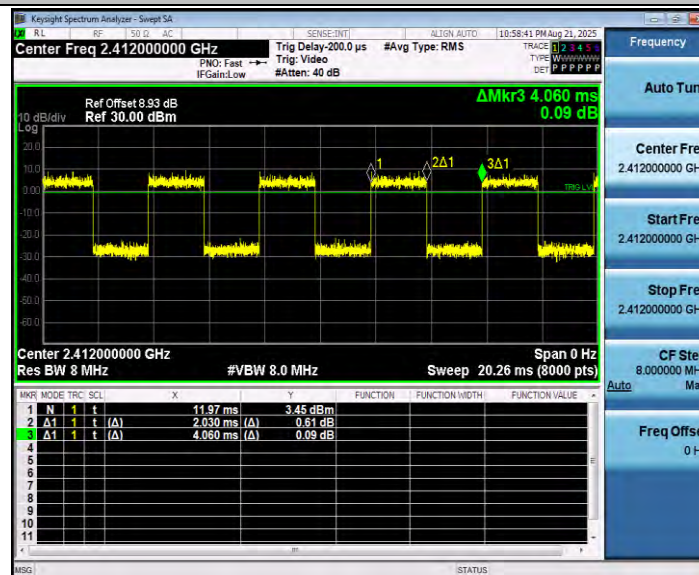
11B_Ant1_2437

Frequency
Auto Tune
Center Freq 2.437000000 GHz
Start Freq 2.437000000 GHz
Stop Freq 2.437000000 GHz
CF Step 8.0000000 MHz
Freq Offset 0 Hz

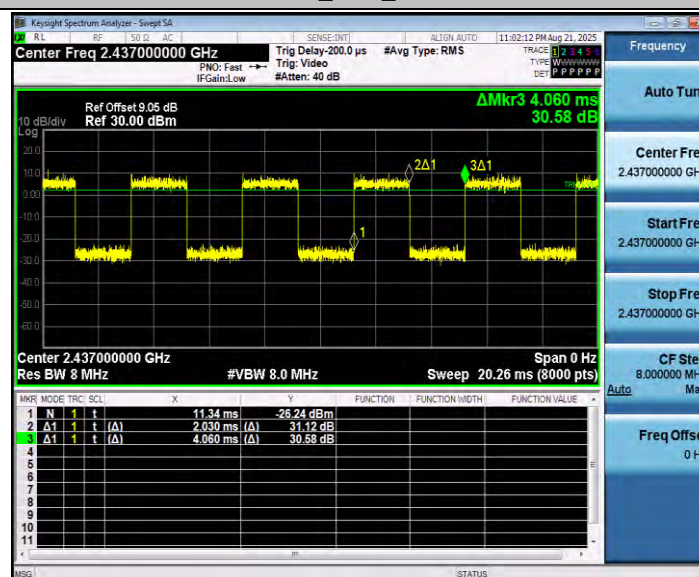
11B_Ant1_2462

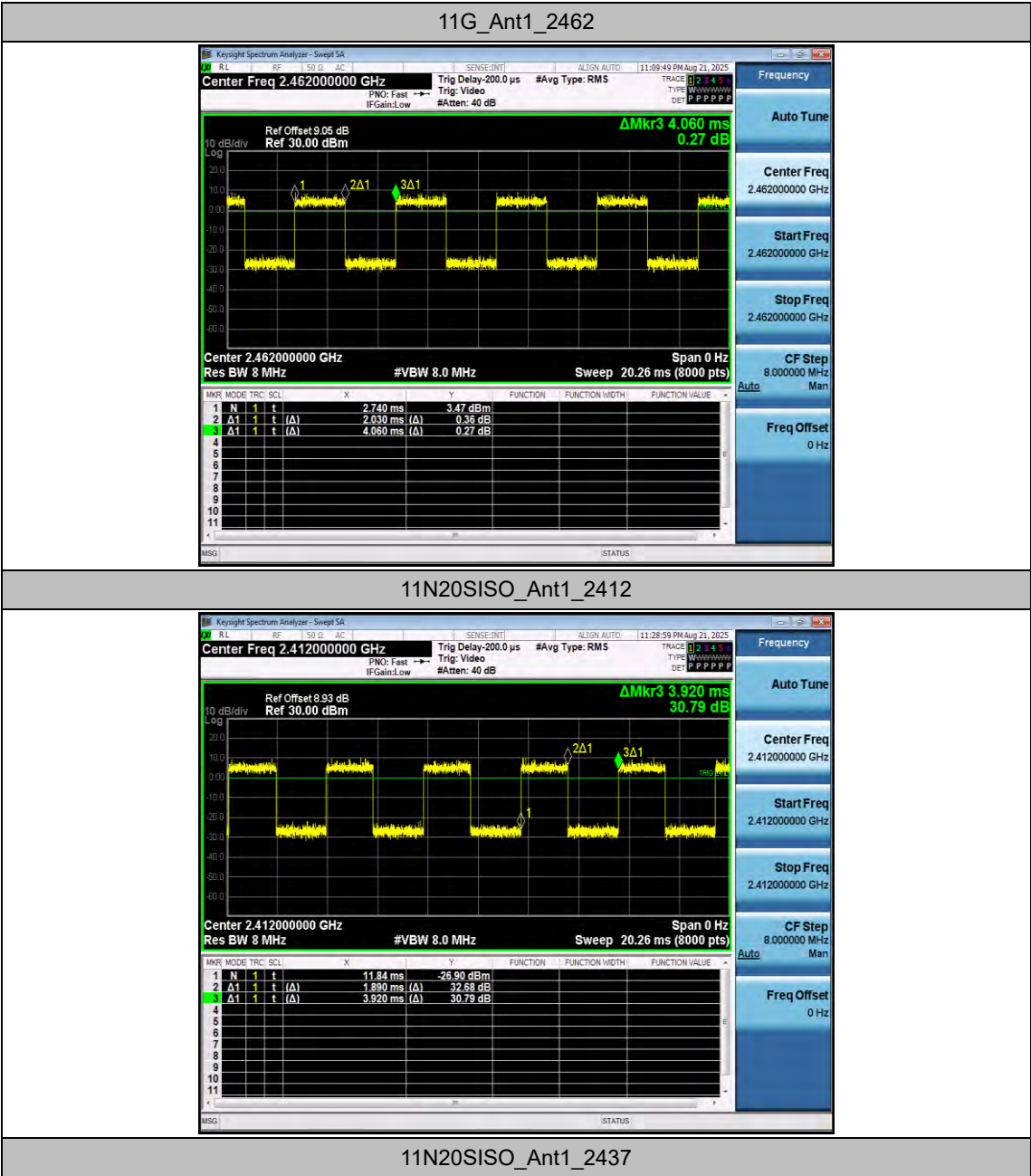


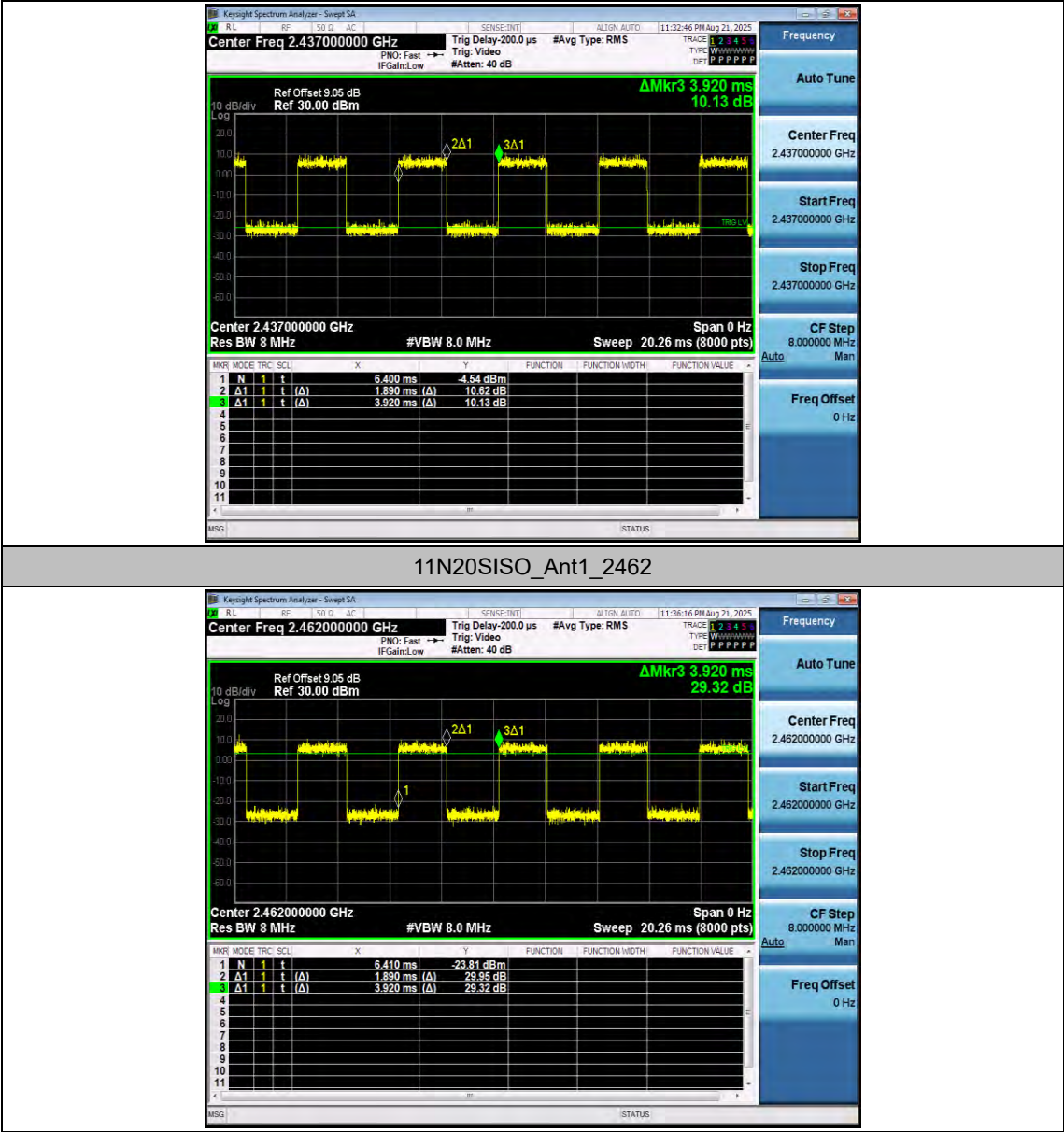
11G_Ant1_2412



11G_Ant1_2437







Appendix A.8: Emissions in Restricted Bands

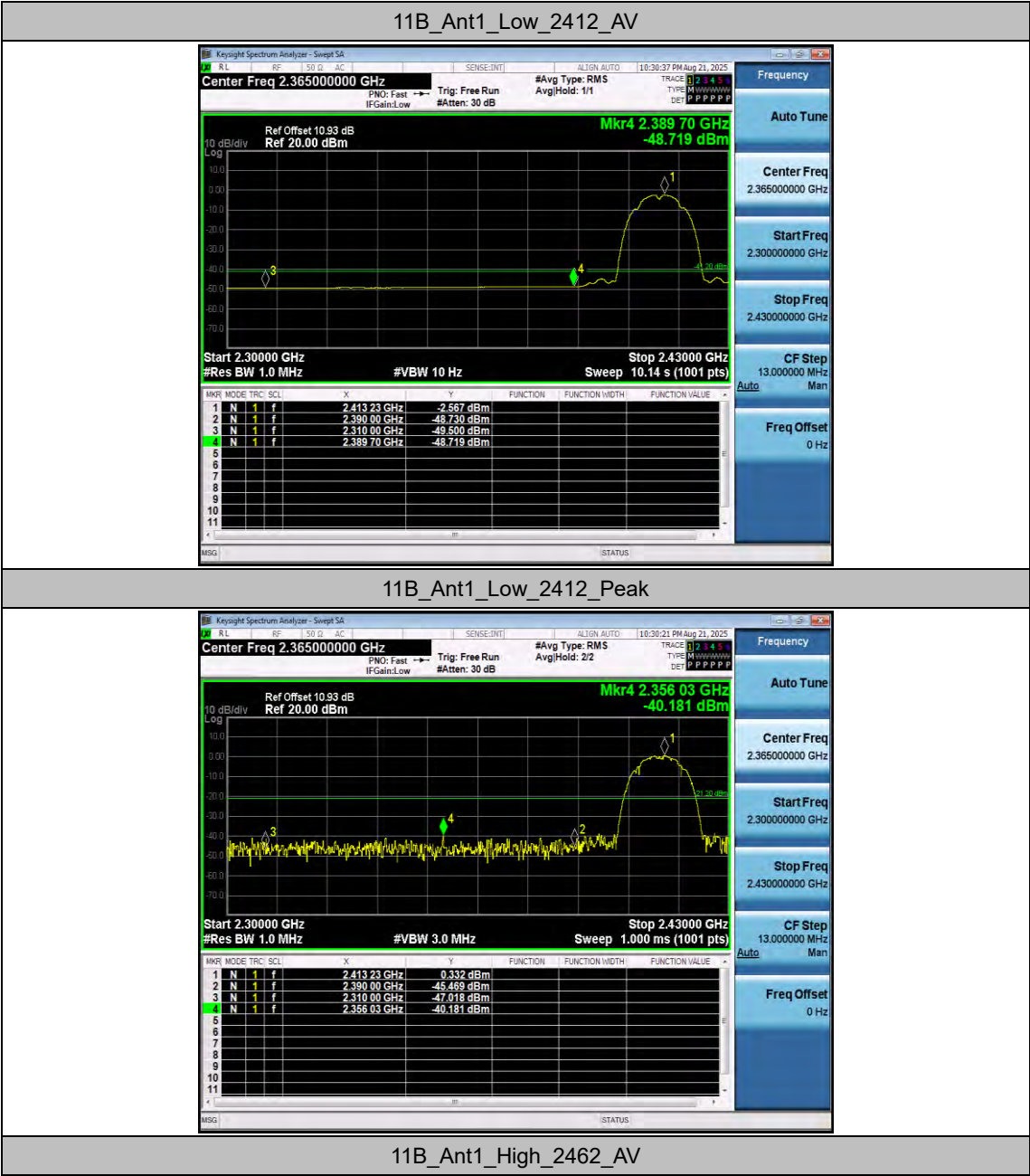
Test Result

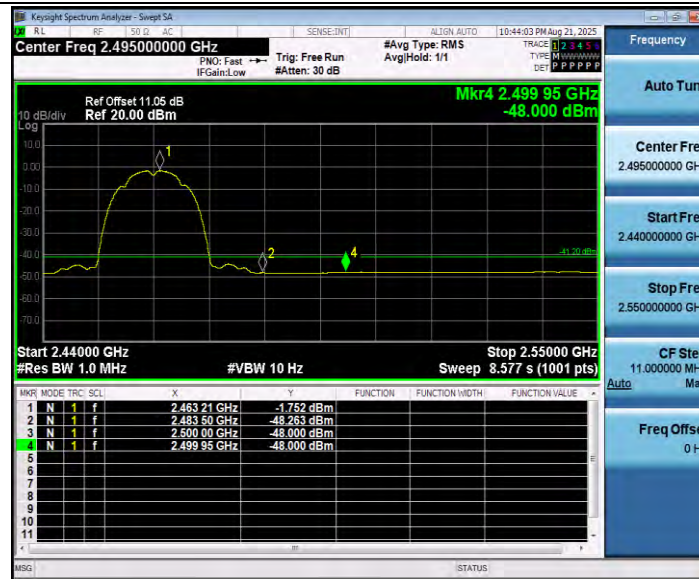
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.5	≤-41.20	45.70	≤54	PASS
				AV	2389.700	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2390.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2310.000	-47.02	≤-21.20	48.18	≤74	PASS
				Peak	2356.030	-40.18	≤-21.20	55.02	≤74	PASS
				Peak	2390.000	-45.47	≤-21.20	49.73	≤74	PASS
		High	2462	AV	2483.500	-48.26	≤-41.20	46.94	≤54	PASS
				AV	2499.950	-48	≤-41.20	47.20	≤54	PASS
				AV	2500.000	-48	≤-41.20	47.20	≤54	PASS
				Peak	2483.500	-46.23	≤-21.20	48.97	≤74	PASS
				Peak	2489.390	-41.35	≤-21.20	53.85	≤74	PASS
				Peak	2500.000	-45.98	≤-21.20	49.22	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.57	≤-41.20	45.63	≤54	PASS
				AV	2389.960	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-47.94	≤-21.20	47.26	≤74	PASS
				Peak	2367.470	-38.55	≤-21.20	56.65	≤74	PASS
				Peak	2390.000	-46.96	≤-21.20	48.24	≤74	PASS
		High	2462	AV	2483.500	-48.64	≤-41.20	46.56	≤54	PASS
				AV	2483.560	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-43.32	≤-21.20	51.88	≤74	PASS
				Peak	2483.560	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2500.000	-43.43	≤-21.20	51.77	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.55	≤-41.20	45.65	≤54	PASS
				AV	2389.960	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2390.000	-48.5	≤-41.20	46.70	≤54	PASS
				Peak	2310.000	-45.95	≤-21.20	49.25	≤74	PASS
				Peak	2366.690	-39.71	≤-21.20	55.49	≤74	PASS
				Peak	2390.000	-40.95	≤-21.20	54.25	≤74	PASS
		High	2462	AV	2483.500	-48.25	≤-41.20	46.95	≤54	PASS
				AV	2483.560	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-42.55	≤-21.20	52.65	≤74	PASS
				Peak	2496.540	-38.64	≤-21.20	56.56	≤74	PASS
				Peak	2500.000	-44.89	≤-21.20	50.31	≤74	PASS

Note:

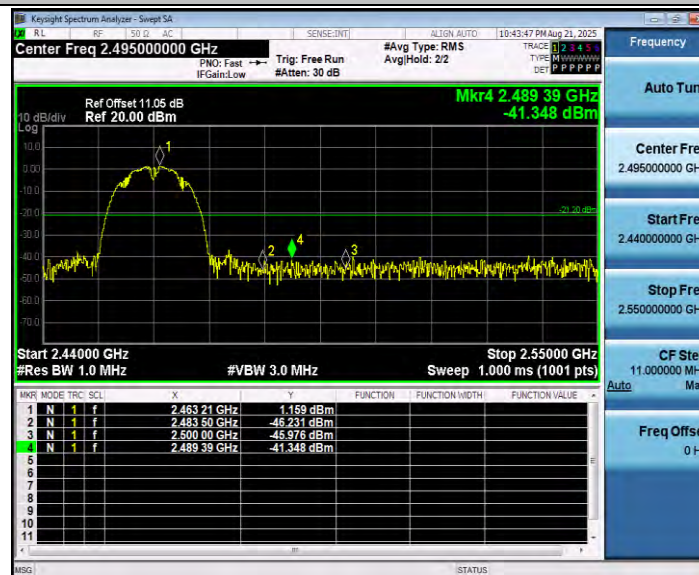
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

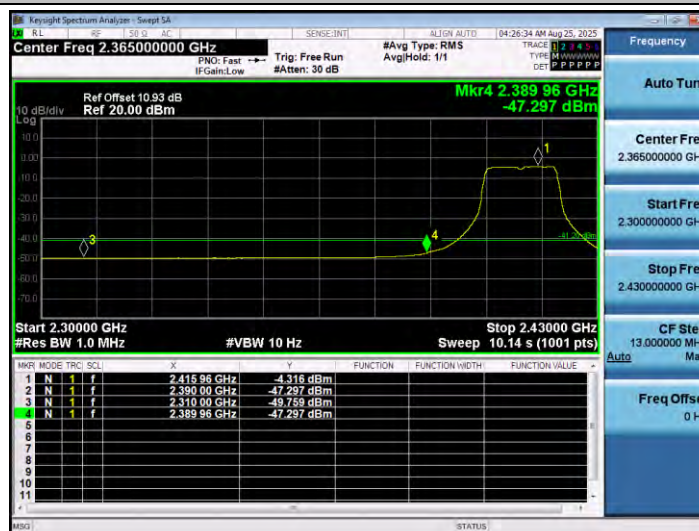




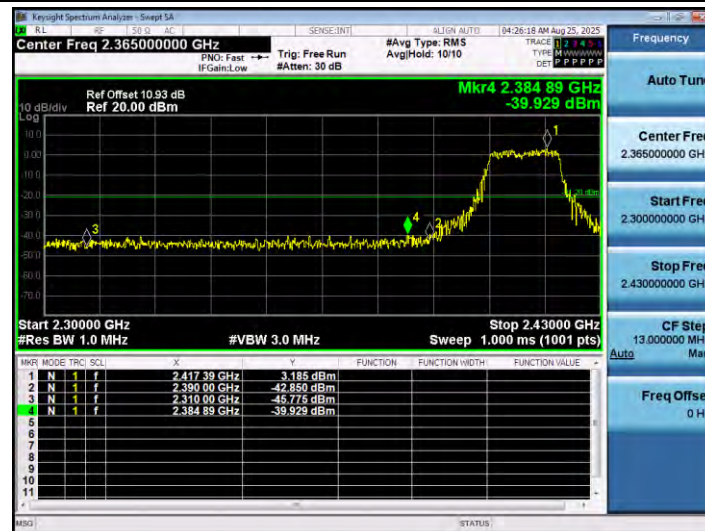
11B_Ant1_High_2462_Peak



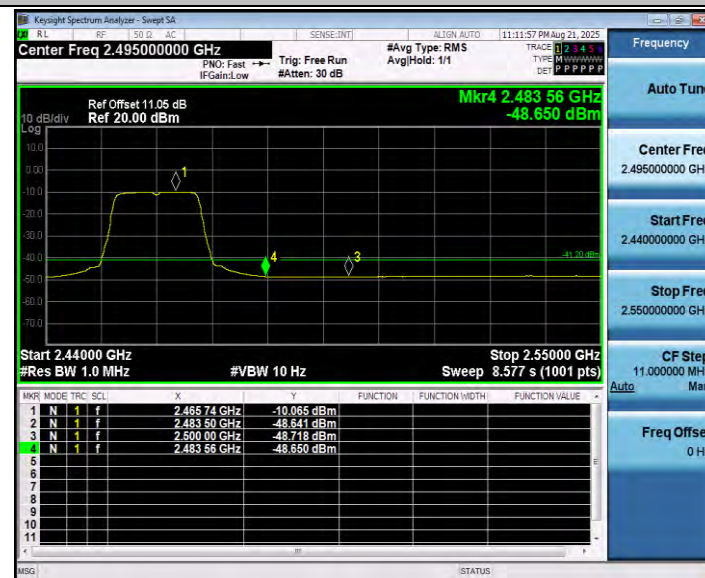
11G_Ant1_Low_2412_AV



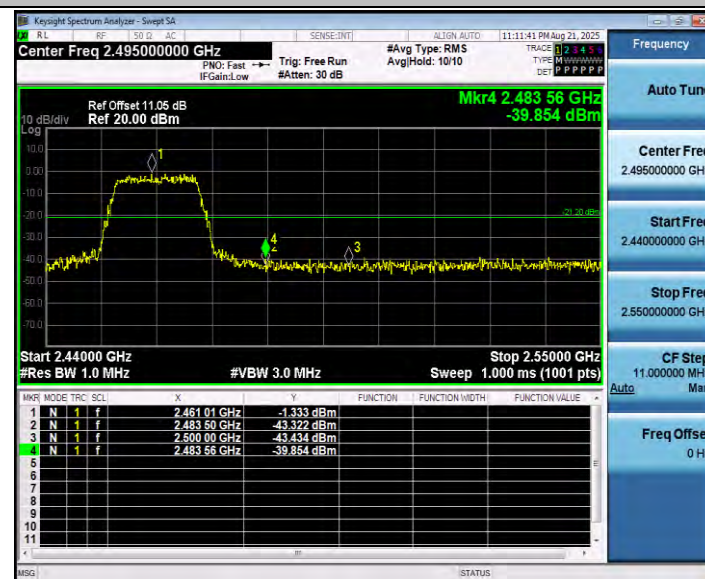
11G_Ant1_Low_2412_Peak



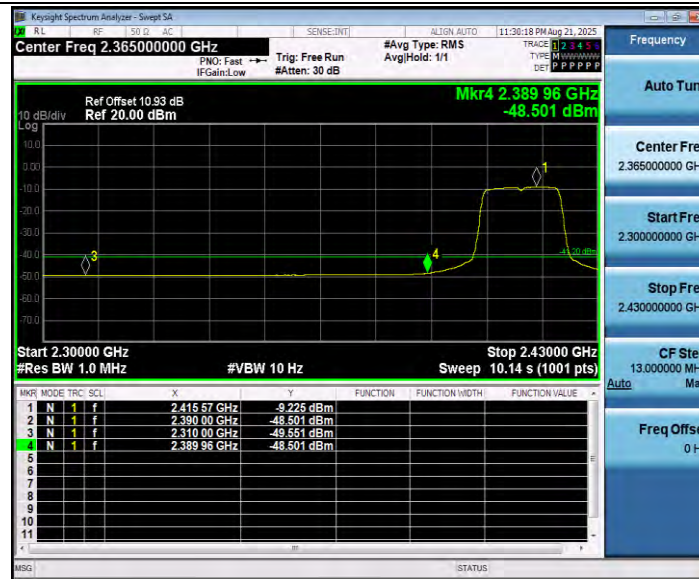
11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



