

Case No. : <u>GTS20250427016-1-05</u>	
Ambient Condition: <u>21</u> °C, <u>53</u> %RH,	
Test Date: <u>2025.5.14-2025.5.24</u>	Test Engineer: <u>Evan ouyang</u>

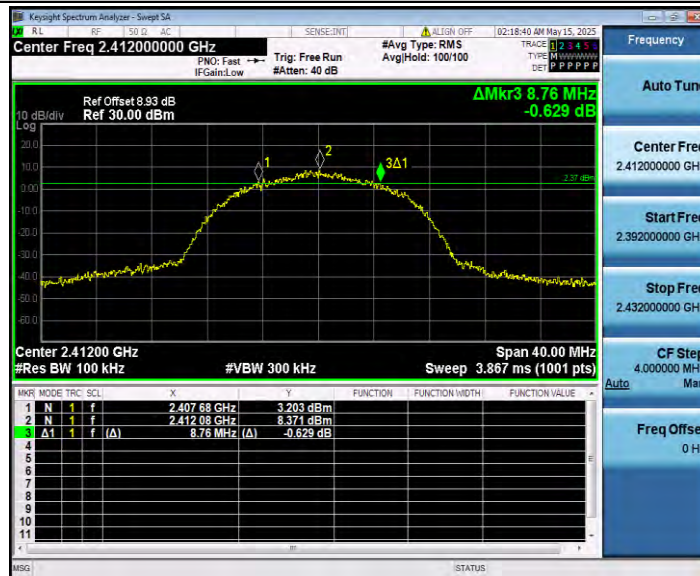
Appendix A.1: DTS Bandwidth

Test Result

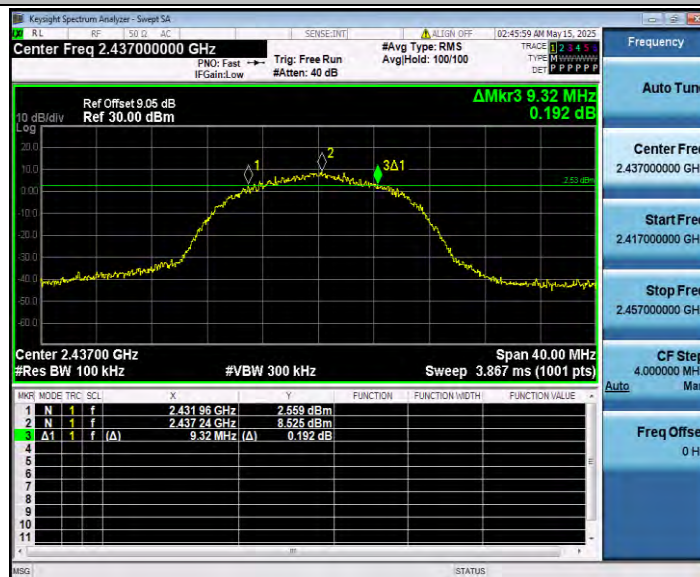
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.760	2407.680	2416.440	0.5	PASS
		2437	9.320	2431.960	2441.280	0.5	PASS
		2462	9.800	2457.360	2467.160	0.5	PASS
11G	Ant1	2412	15.040	2404.520	2419.560	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.400	2404.160	2419.560	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



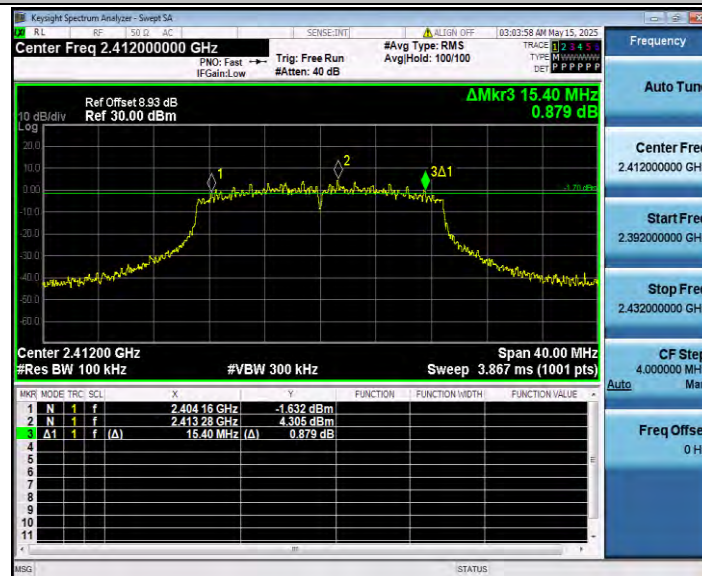
11G_Ant1_2437



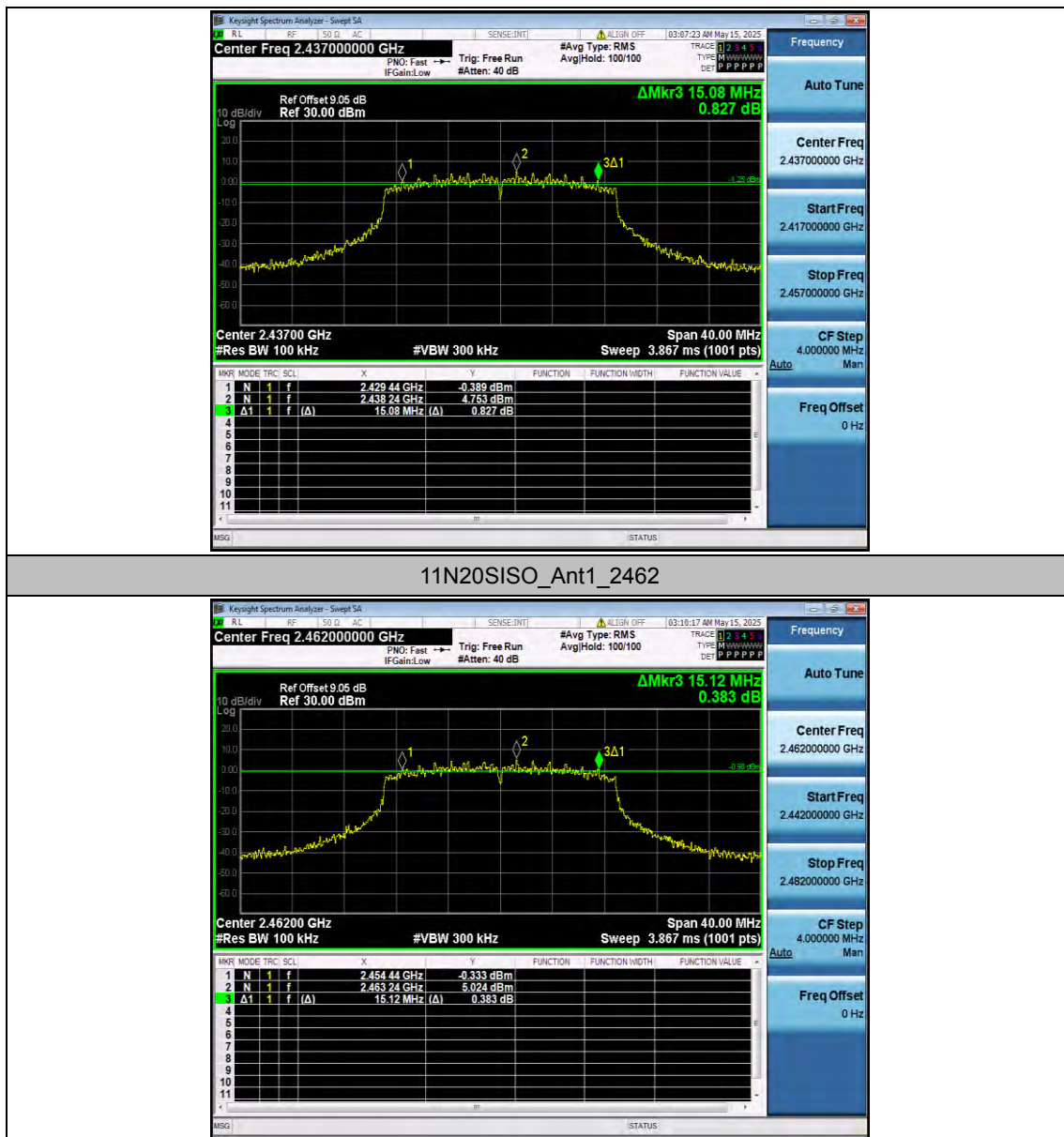
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



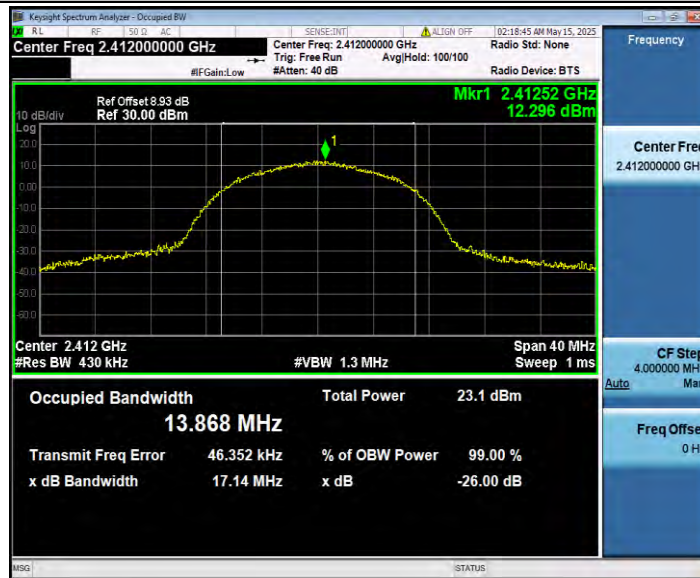
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.868	2405.1124	2418.9804	---	---
		2437	13.888	2430.0558	2443.9438	---	---
		2462	13.823	2455.0840	2468.9070	---	---
11G	Ant1	2412	16.515	2403.7717	2420.2867	---	---
		2437	16.551	2428.7273	2445.2783	---	---
		2462	16.500	2453.7380	2470.2380	---	---
11N20SISO	Ant1	2412	17.679	2403.1594	2420.8384	---	---
		2437	17.615	2428.1894	2445.8044	---	---
		2462	17.589	2453.1640	2470.7530	---	---

Test Graphs

11B_Ant1_2412



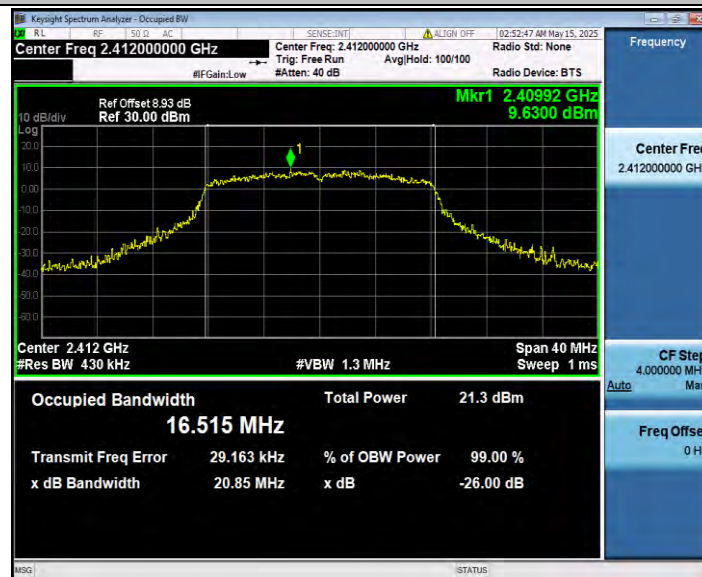
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



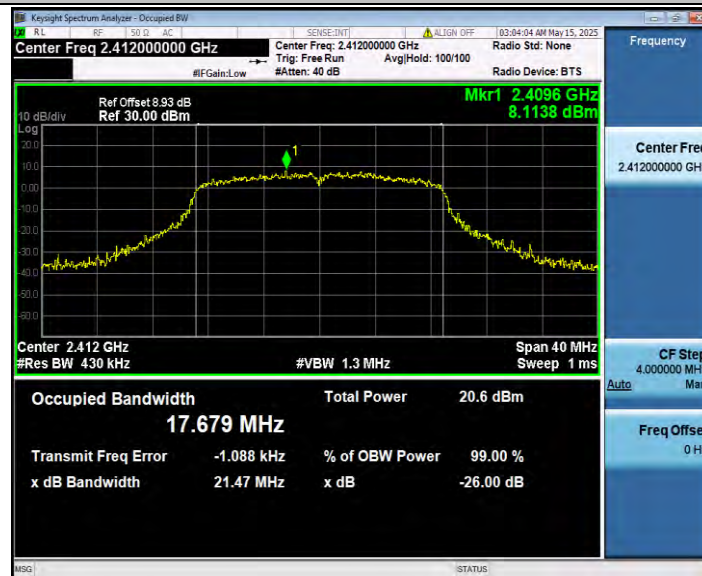
11G_Ant1_2437



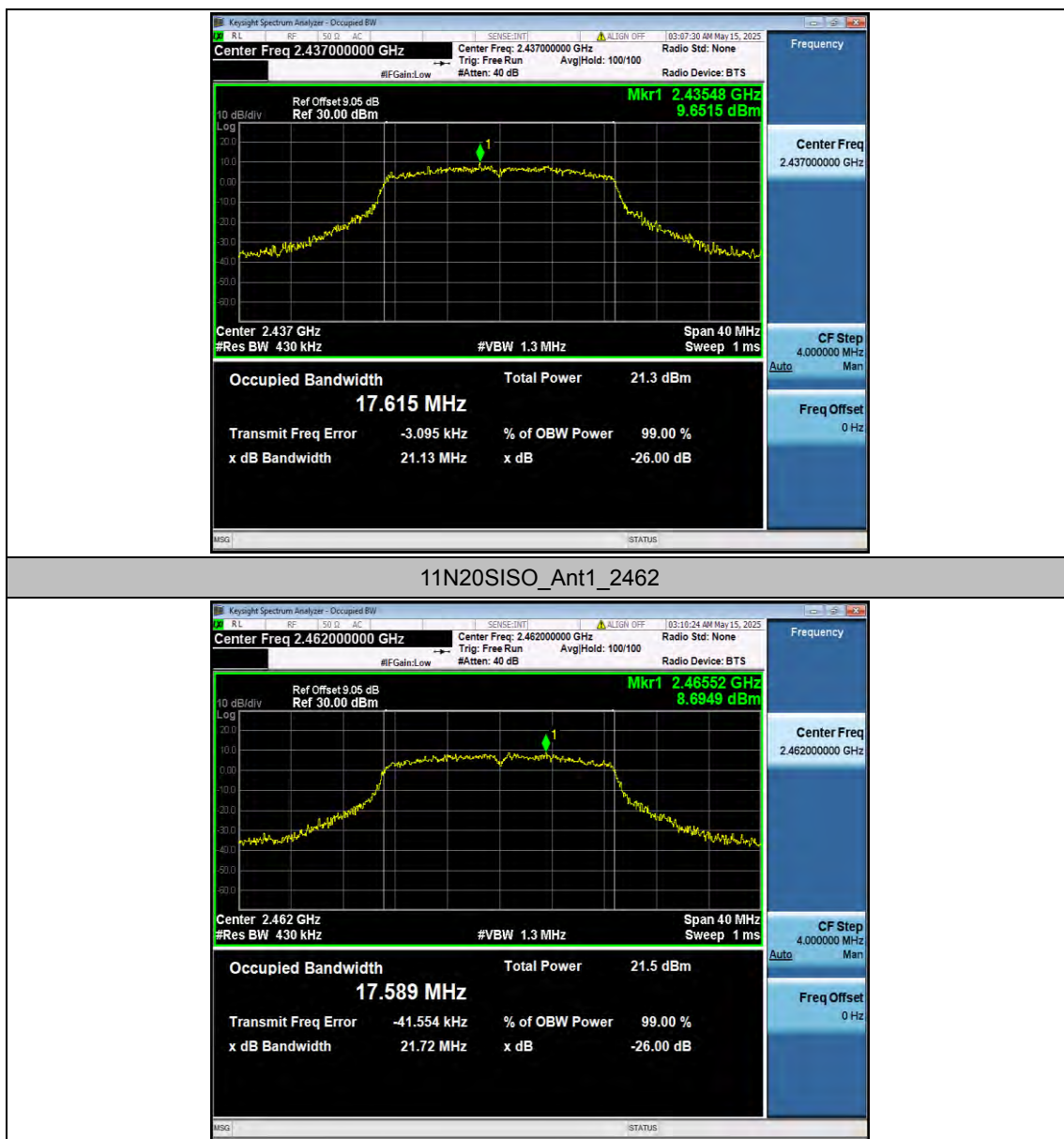
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	22.59	≤30.00	PASS
		2437	23.34	≤30.00	PASS
		2462	23.42	≤30.00	PASS
11G	Ant1	2412	22.27	≤30.00	PASS
		2437	23.05	≤30.00	PASS
		2462	23.15	≤30.00	PASS
11N20SISO	Ant1	2412	21.46	≤30.00	PASS
		2437	22.22	≤30.00	PASS
		2462	22.33	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

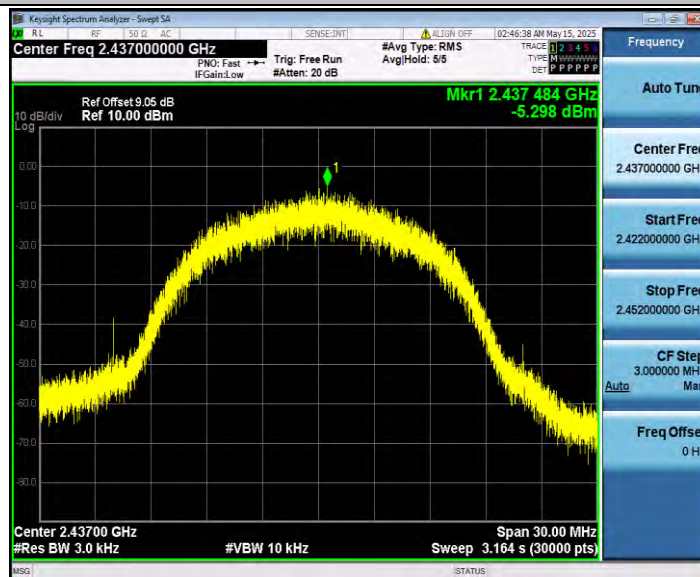
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.34	≤8.00	PASS
		2437	-5.30	≤8.00	PASS
		2462	-5.08	≤8.00	PASS
11G	Ant1	2412	-10.81	≤8.00	PASS
		2437	-9.82	≤8.00	PASS
		2462	-9.30	≤8.00	PASS
11N20SISO	Ant1	2412	-10.83	≤8.00	PASS
		2437	-10.19	≤8.00	PASS
		2462	-9.80	≤8.00	PASS

Test Graphs

11B_Ant1_2412



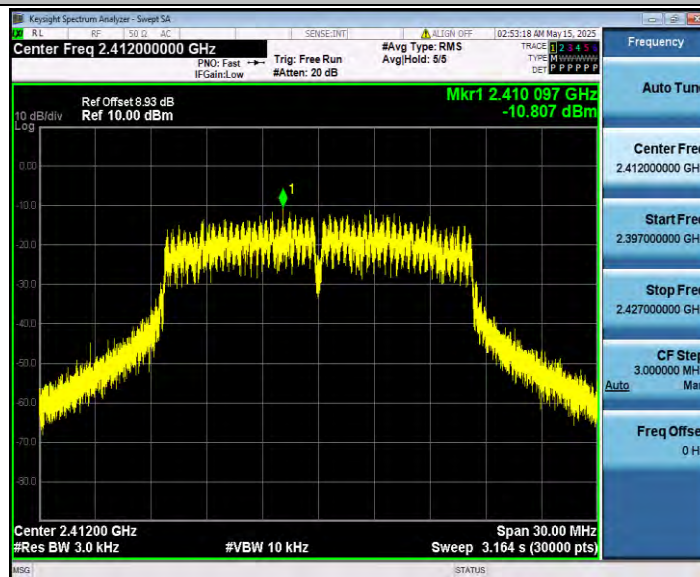
11B_Ant1_2437



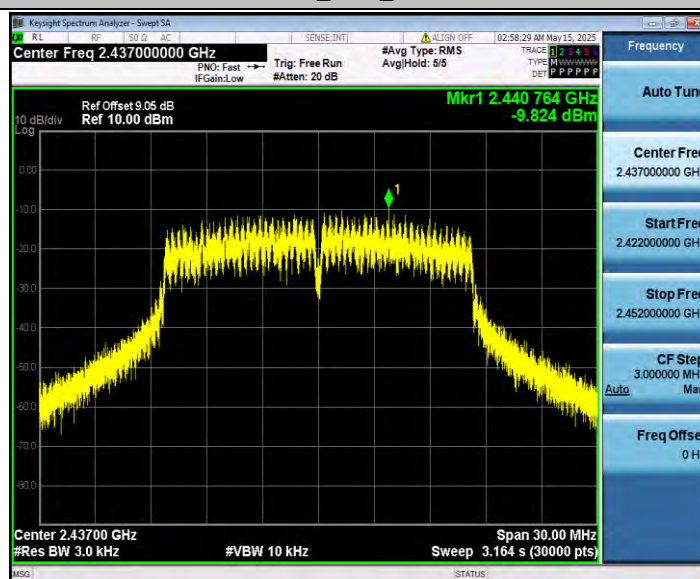
11B_Ant1_2462



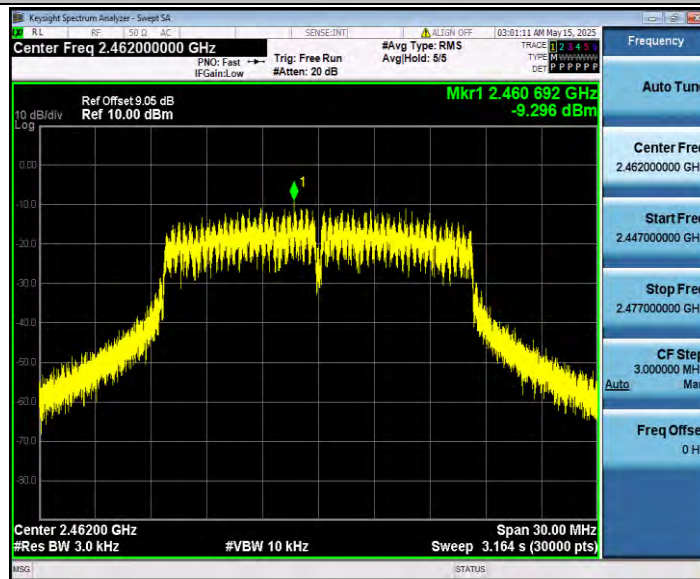
11G_Ant1_2412



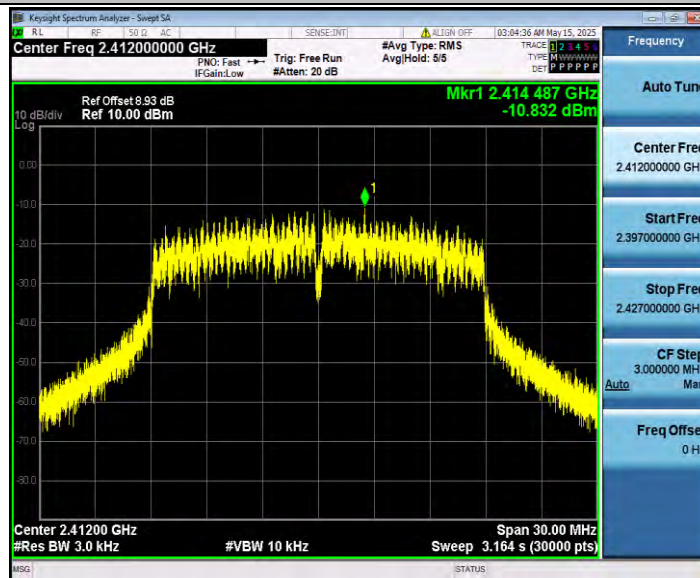
11G_Ant1_2437



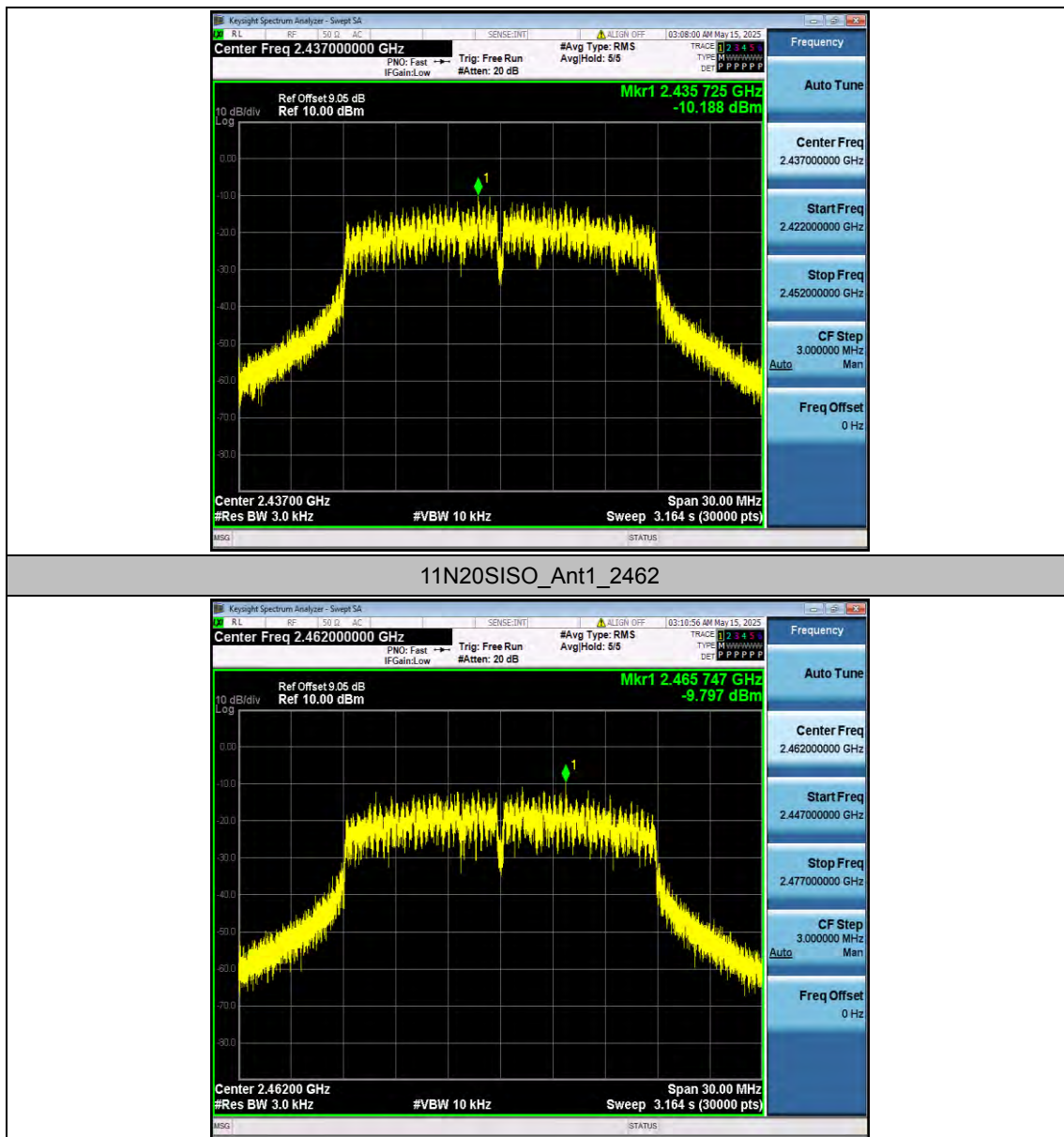
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.5: Band edge measurements

Test Result

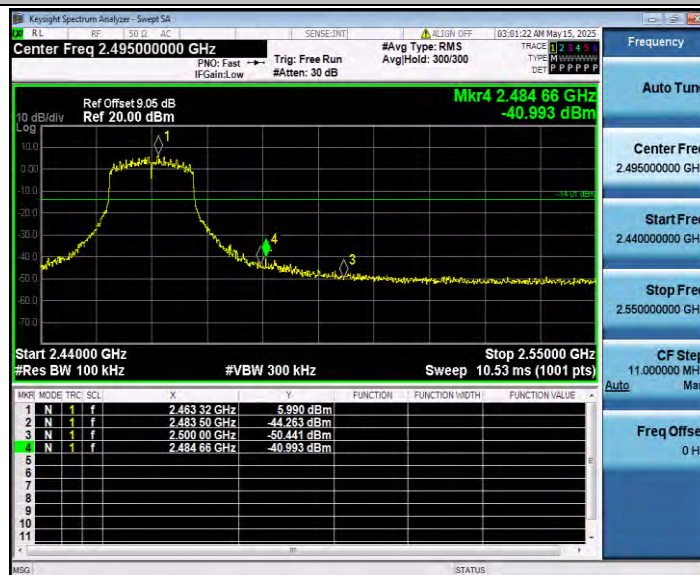
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.21	-35.06	≤ -11.79	PASS
		High	2462	9.26	-46.07	≤ -10.74	PASS
11G	Ant1	Low	2412	4.93	-31.3	≤ -15.08	PASS
		High	2462	5.99	-40.99	≤ -14.01	PASS
11N20SISO	Ant1	Low	2412	4.57	-30.82	≤ -15.43	PASS
		High	2462	5.50	-42.94	≤ -14.5	PASS

Test Graphs

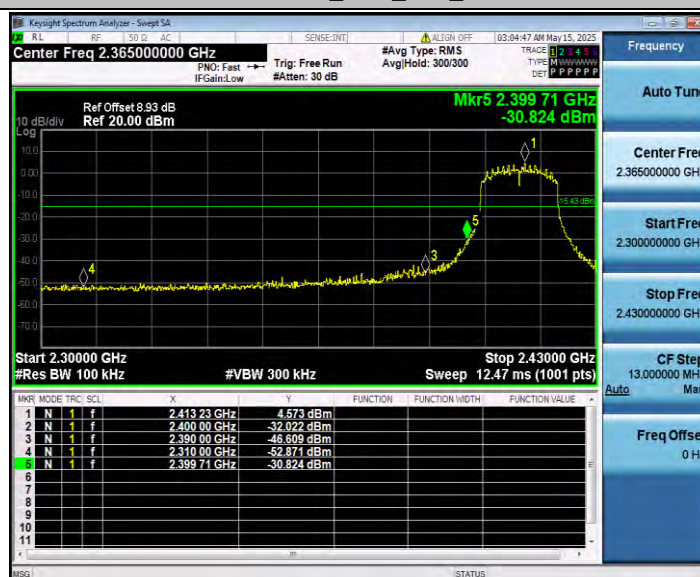


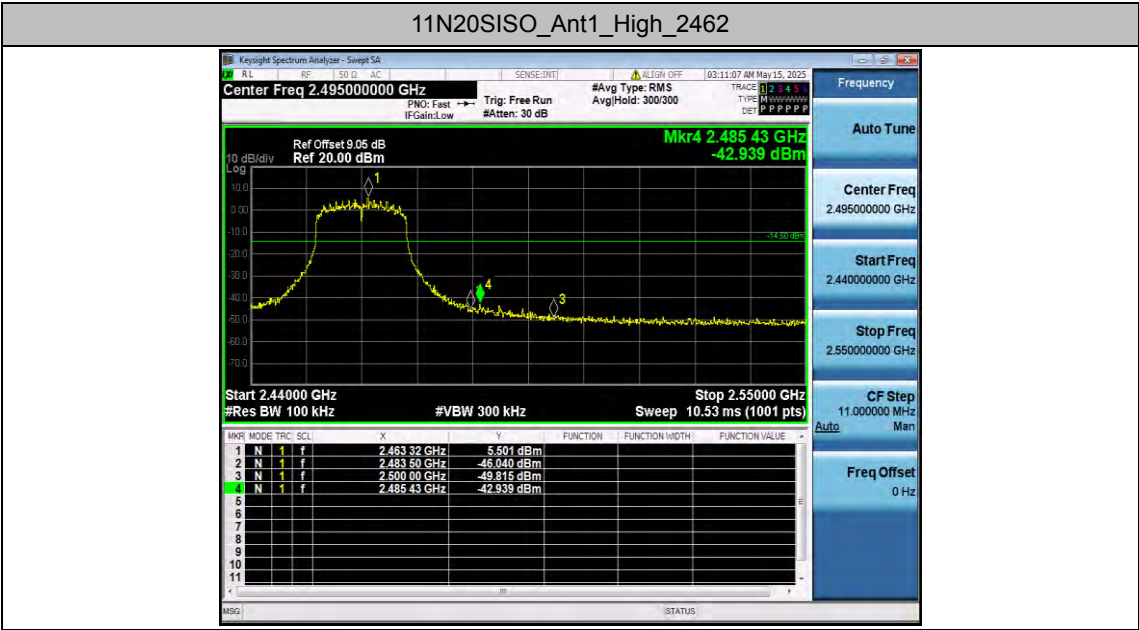


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



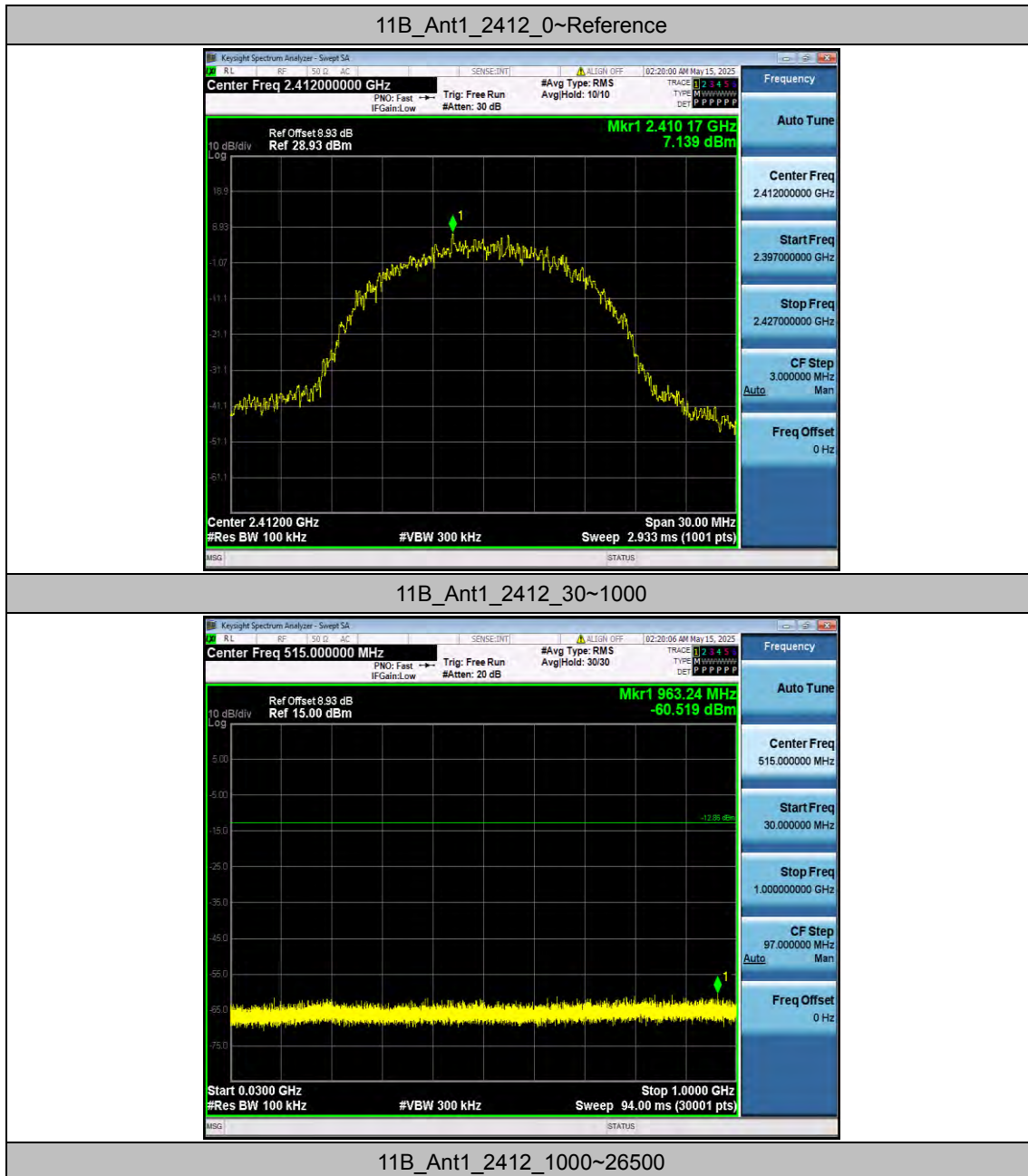


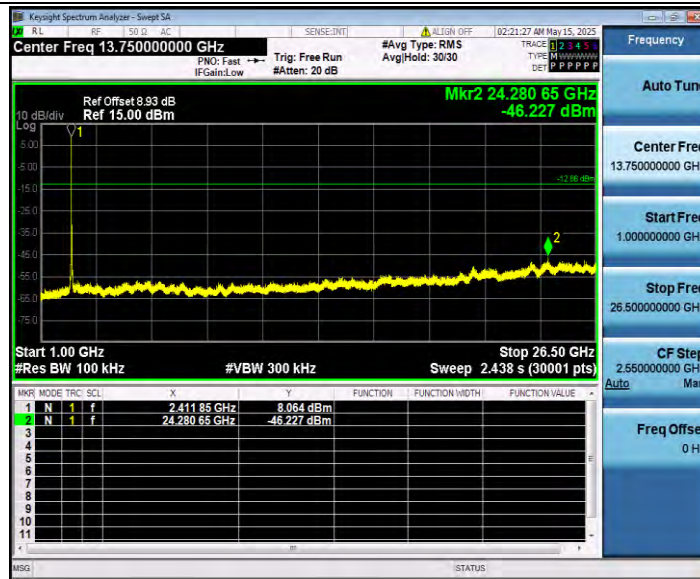
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.14	7.14	---	PASS
			30~1000	7.14	-60.52	≤ -12.86	PASS
			1000~26500	7.14	-46.23	≤ -12.86	PASS
		2437	Reference	7.74	7.74	---	PASS
			30~1000	7.74	-59.97	≤ -12.26	PASS
			1000~26500	7.74	-47.79	≤ -12.26	PASS
		2462	Reference	8.32	8.32	---	PASS
			30~1000	8.32	-60.52	≤ -11.68	PASS
			1000~26500	8.32	-47.64	≤ -11.68	PASS
11G	Ant1	2412	Reference	4.86	4.86	---	PASS
			30~1000	4.86	-60.04	≤ -15.14	PASS
			1000~26500	4.86	-47.52	≤ -15.14	PASS
		2437	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-59.97	≤ -15.43	PASS
			1000~26500	4.57	-47.57	≤ -15.43	PASS
		2462	Reference	4.93	4.93	---	PASS
			30~1000	4.93	-60.87	≤ -15.07	PASS
			1000~26500	4.93	-47.09	≤ -15.07	PASS
11N20SISO	Ant1	2412	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-60.25	≤ -16.53	PASS
			1000~26500	3.47	-47.59	≤ -16.53	PASS
		2437	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-59.94	≤ -16.99	PASS
			1000~26500	3.01	-47.91	≤ -16.99	PASS
		2462	Reference	3.71	3.71	---	PASS
			30~1000	3.71	-60.04	≤ -16.29	PASS
			1000~26500	3.71	-47.36	≤ -16.29	PASS

Test Graphs

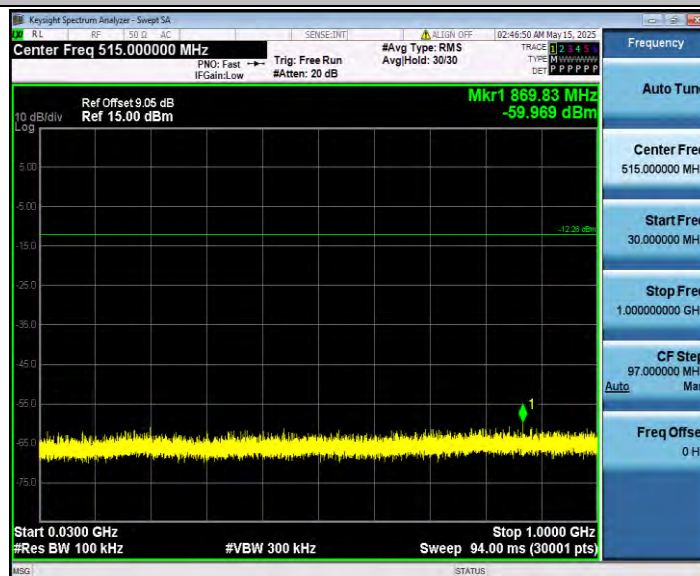




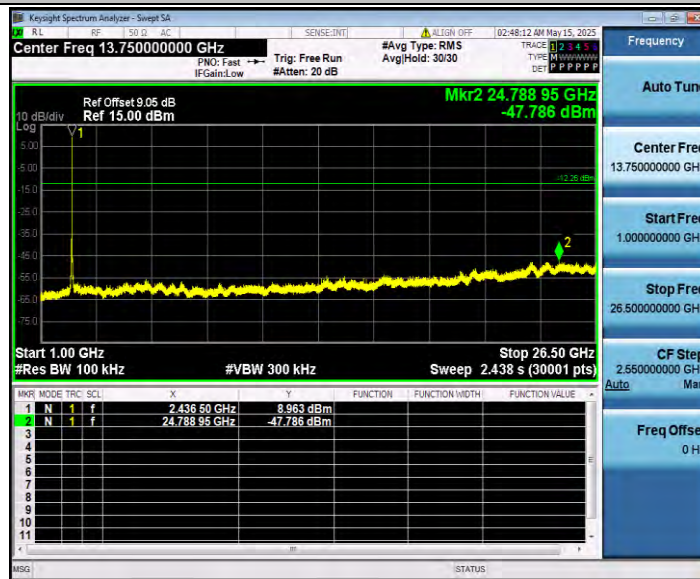
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



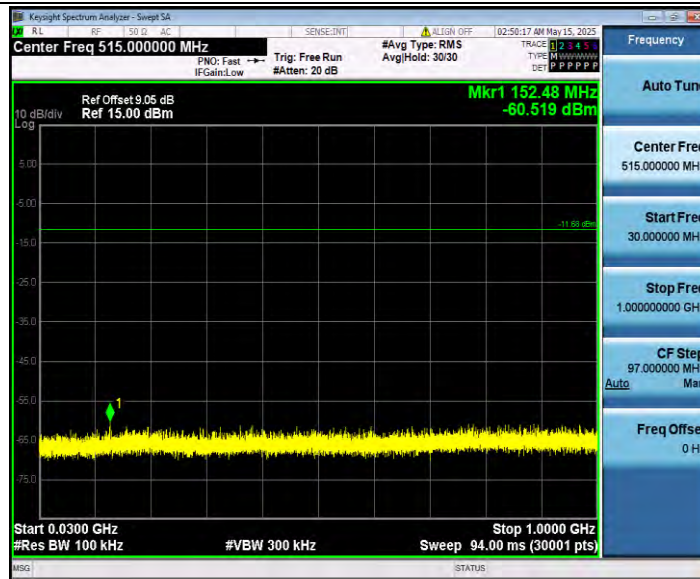
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



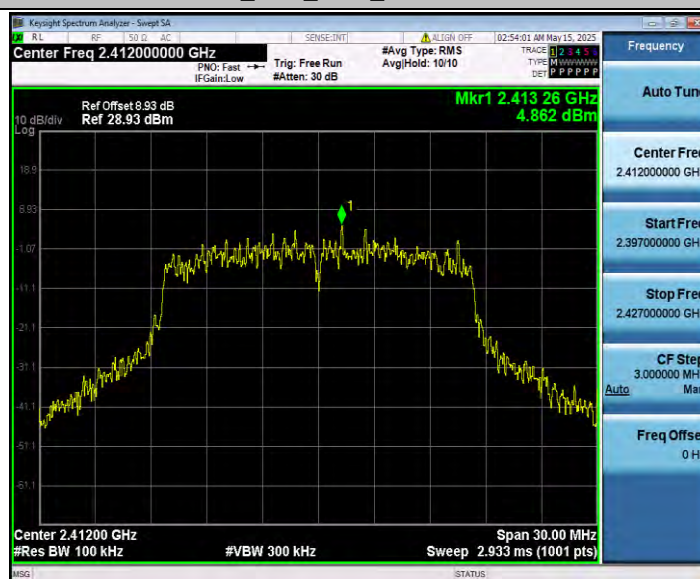
11B_Ant1_2462_30~1000

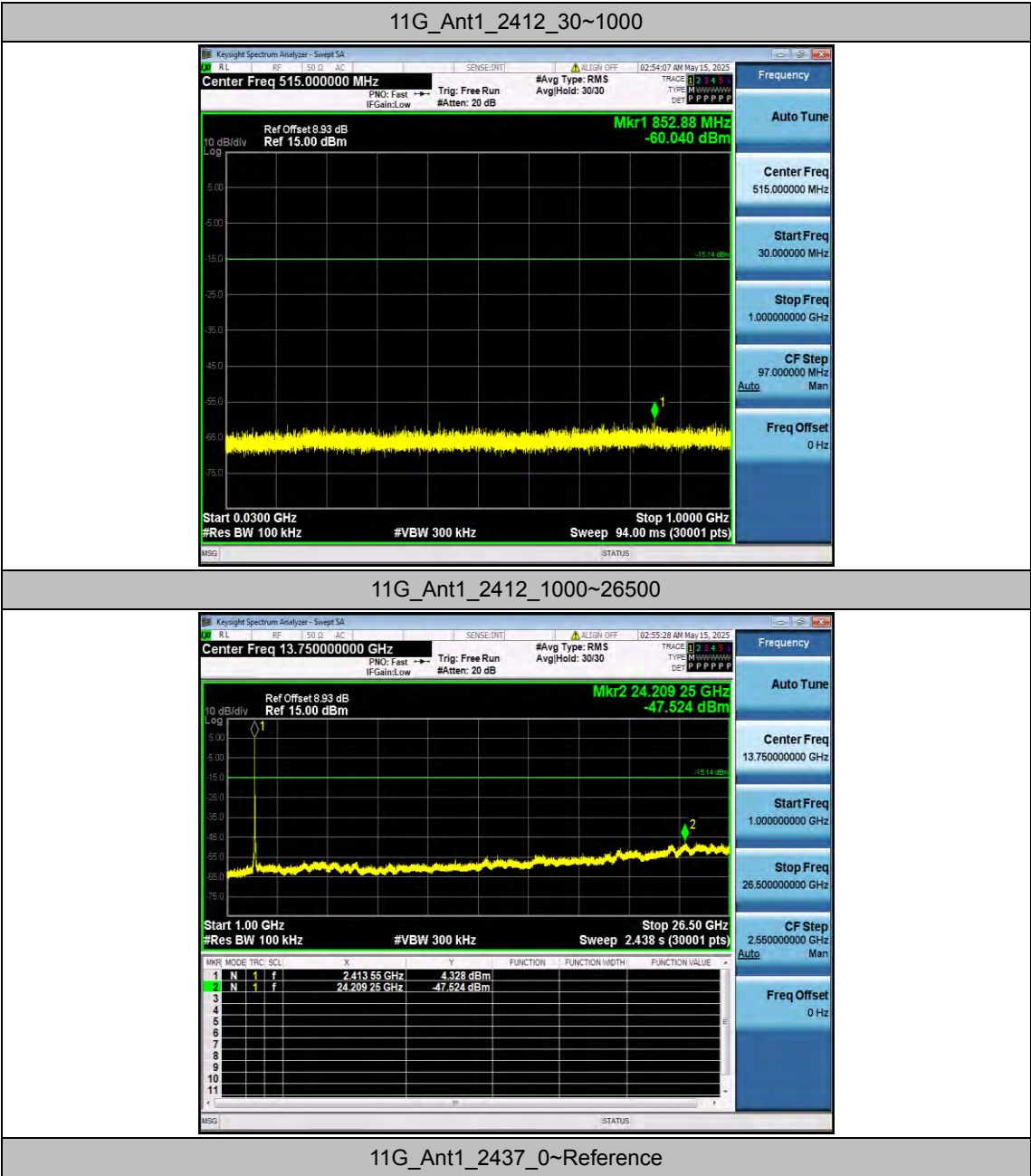


11B_Ant1_2462_1000~26500



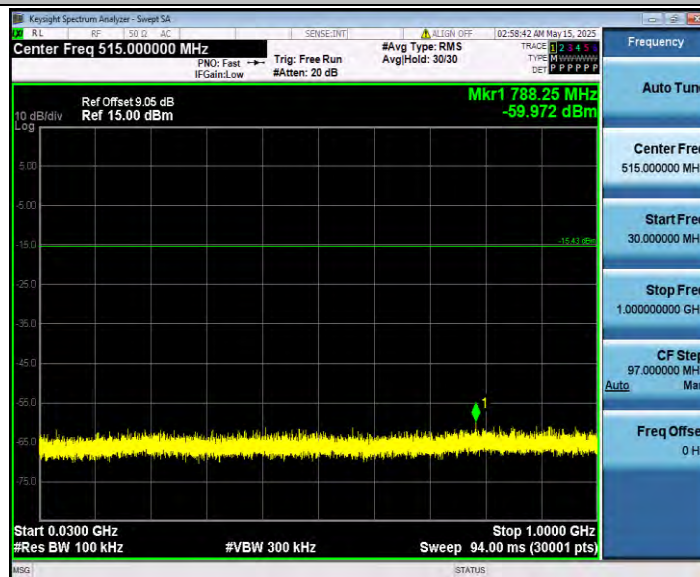
11G_Ant1_2412_0~Reference







11G_Ant1_2437_30~1000



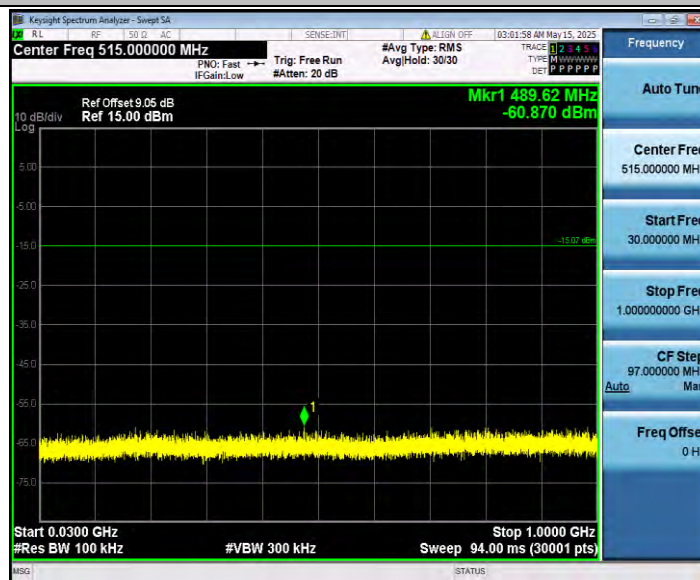
11G_Ant1_2437_1000~26500



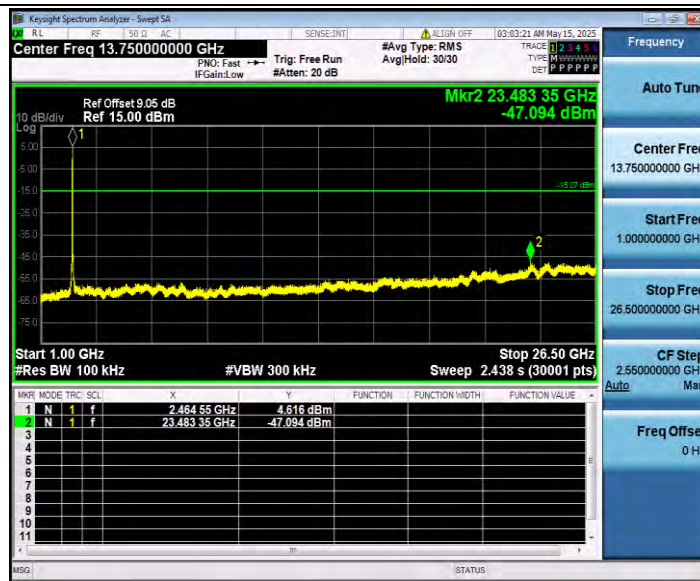
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



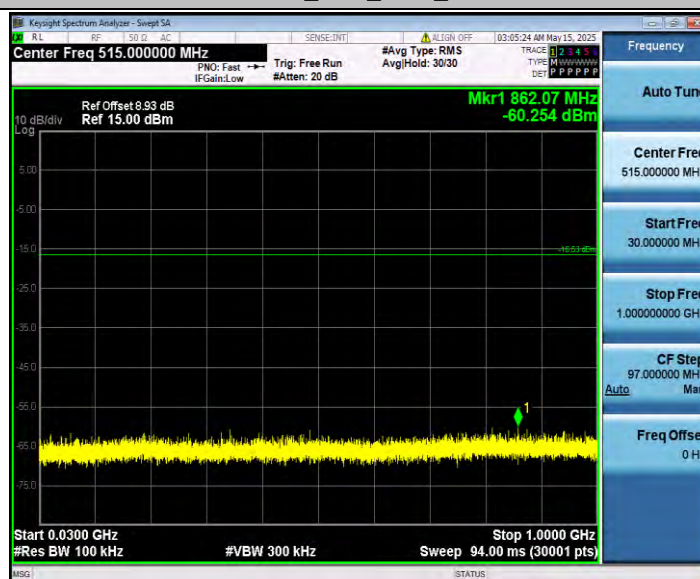
11G_Ant1_2462_1000~26500



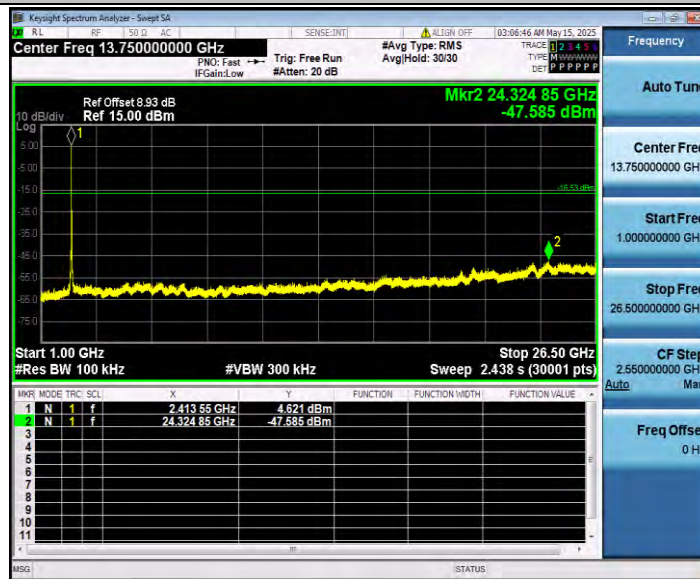
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



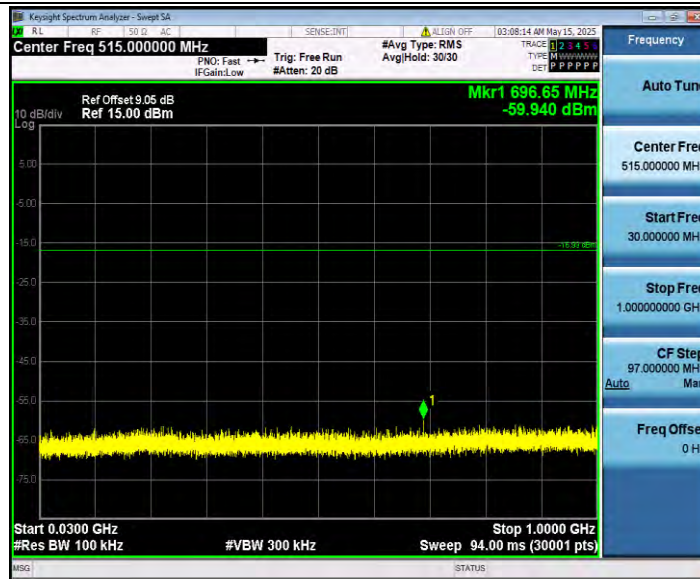
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

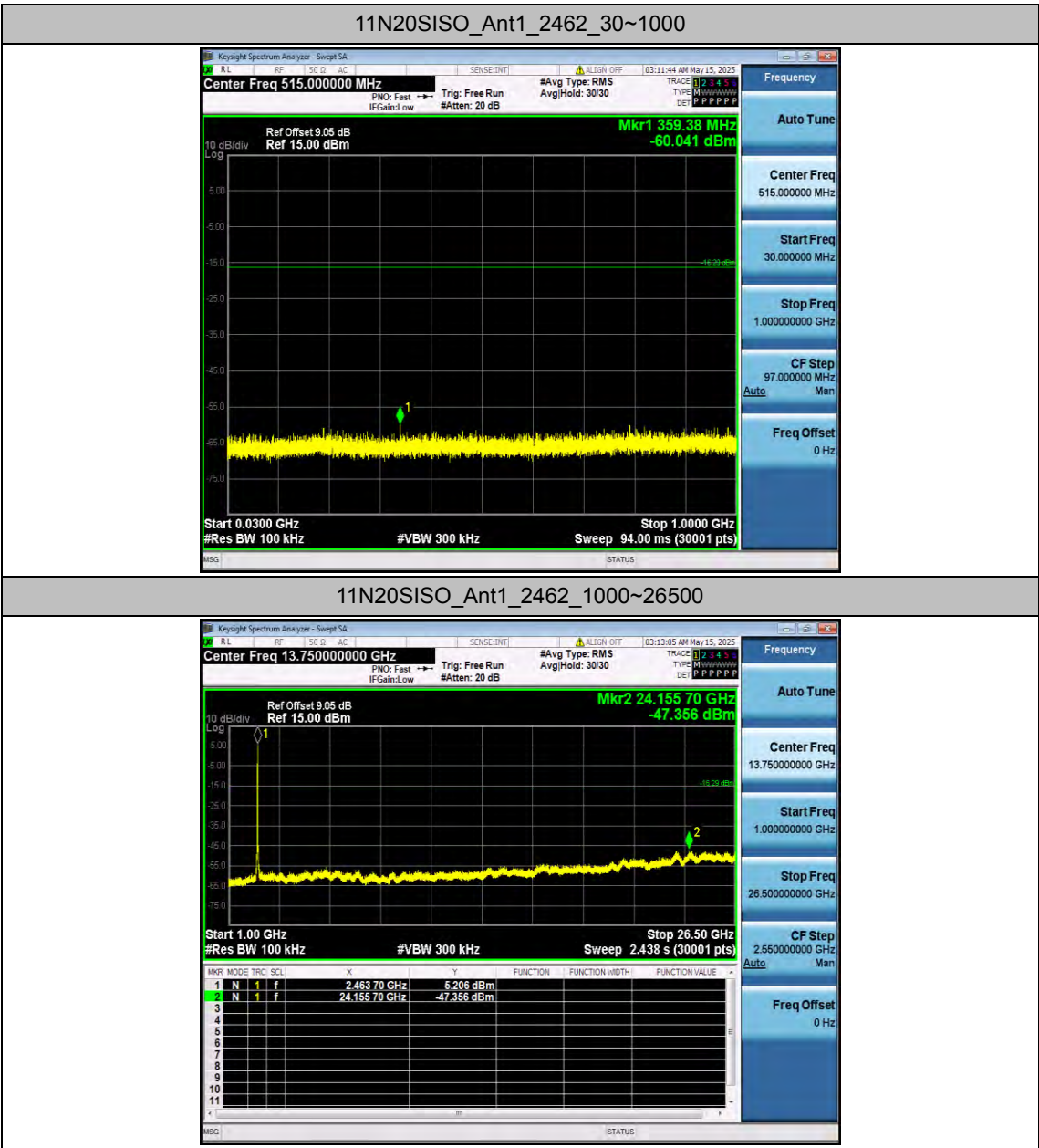


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference





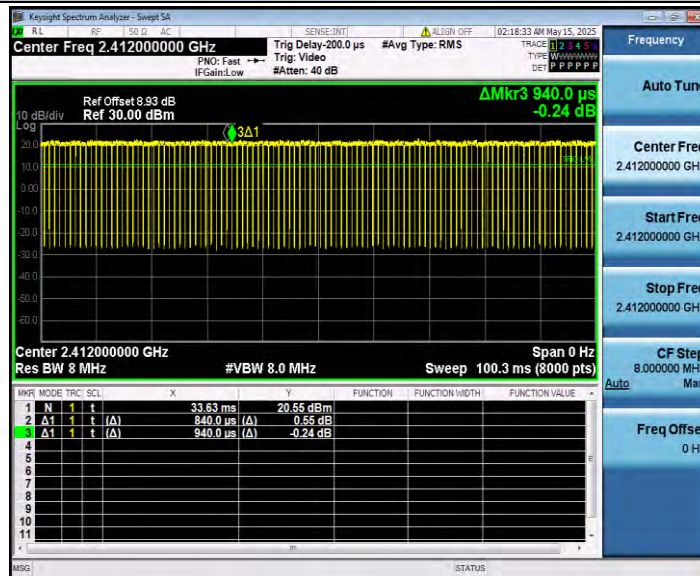
Appendix A.7: Duty Cycle

Test Result

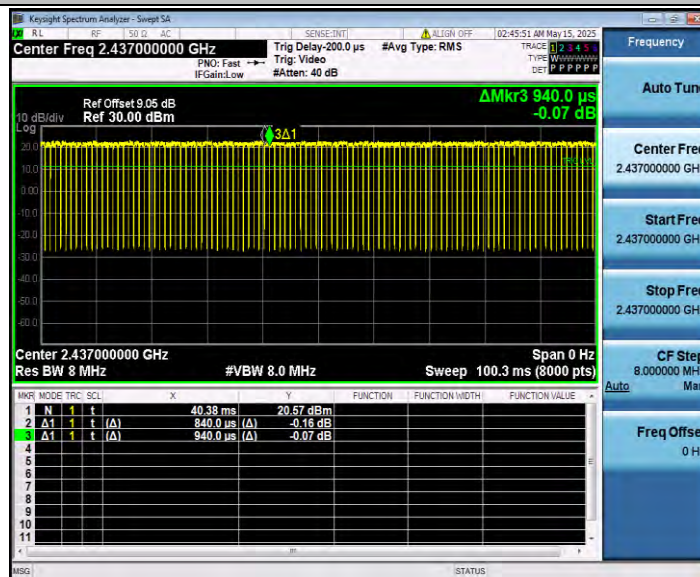
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11B	Ant1	2412	0.84	0.94	89.36	0.49	1.19
		2437	0.84	0.94	89.36	0.49	1.19
		2462	0.84	0.94	89.36	0.49	1.19
11G	Ant1	2412	0.18	0.28	64.29	1.92	5.56
		2437	0.18	0.28	64.29	1.92	5.56
		2462	0.18	0.28	64.29	1.92	5.56
11N20SISO	Ant1	2412	0.16	0.28	57.14	2.43	6.25
		2437	0.17	0.28	60.71	2.17	5.88
		2462	0.17	0.28	60.71	2.17	5.88

Test Graphs

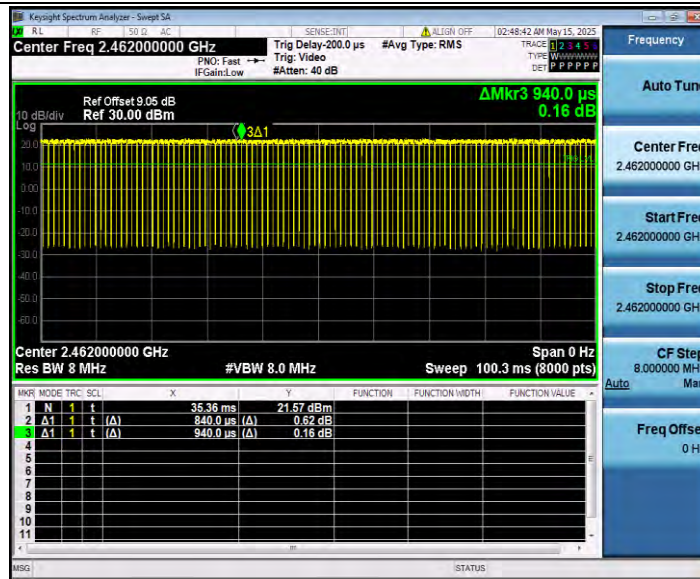
11B_Ant1_2412



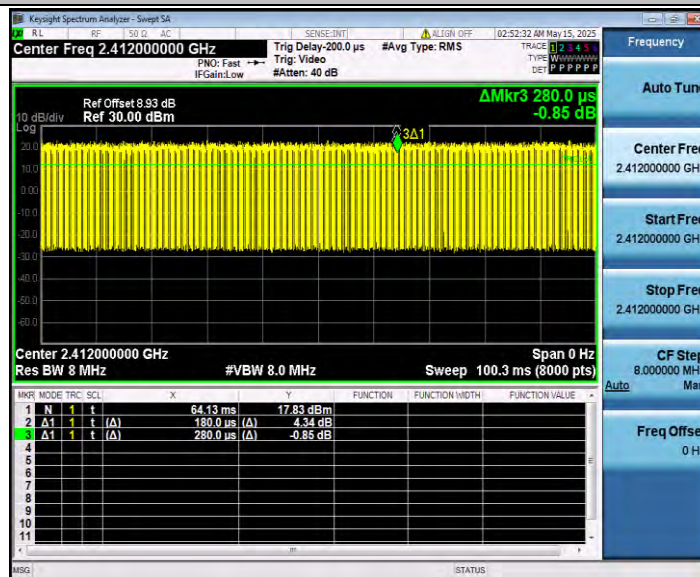
11B_Ant1_2437



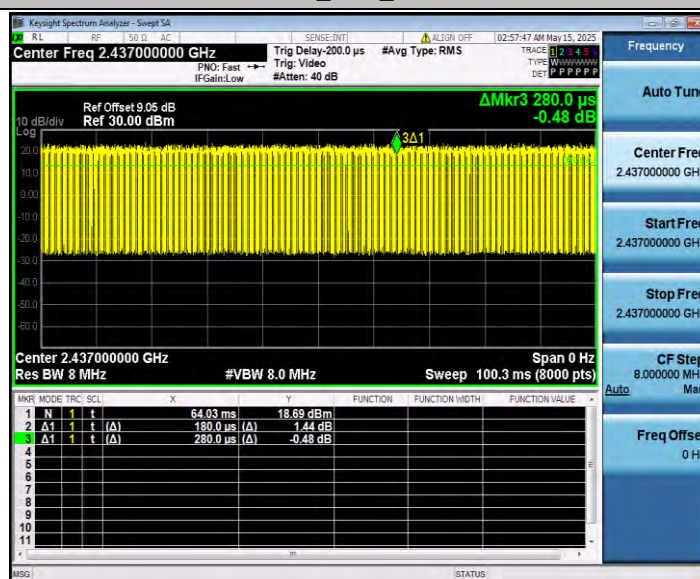
11B_Ant1_2462

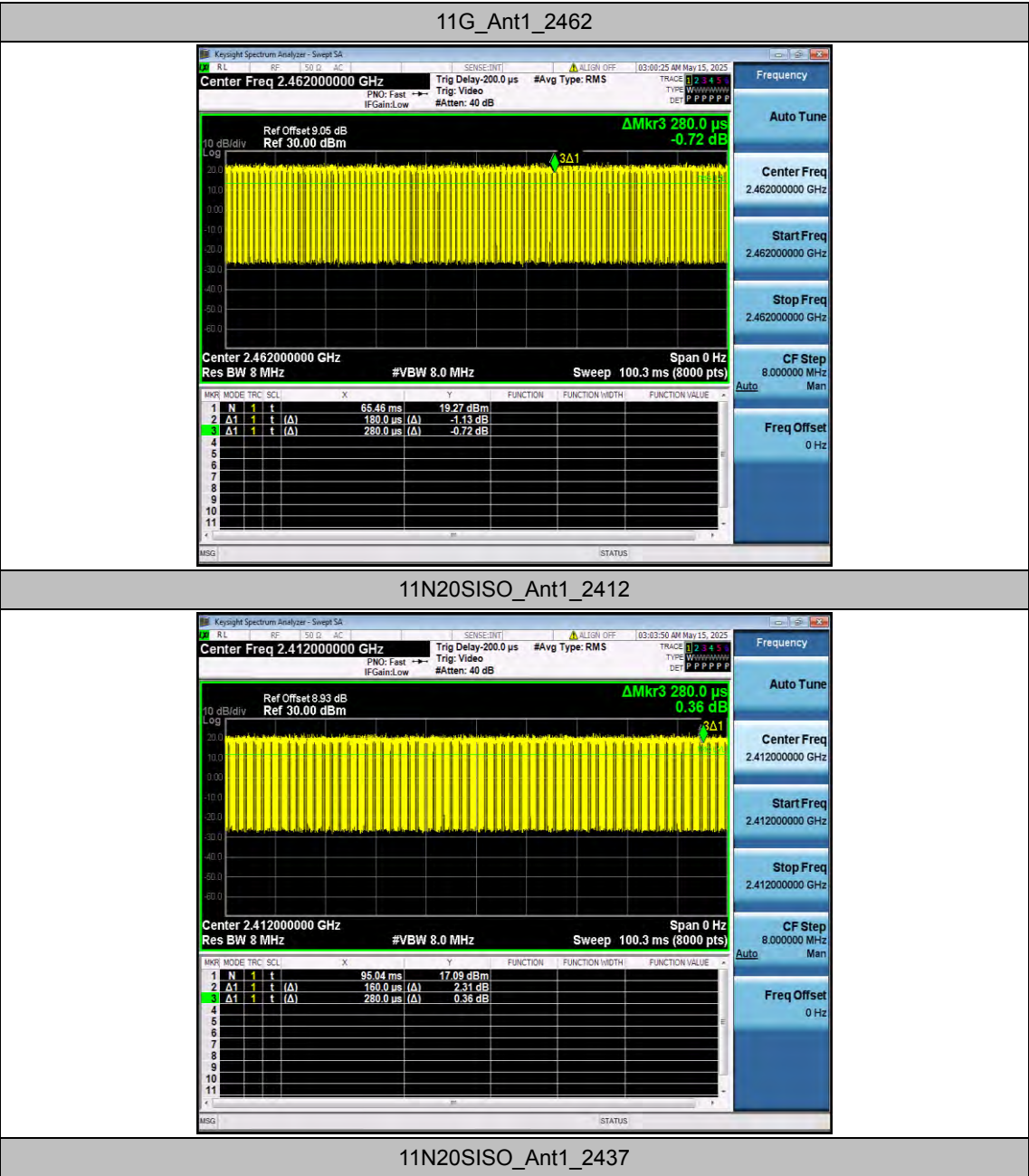


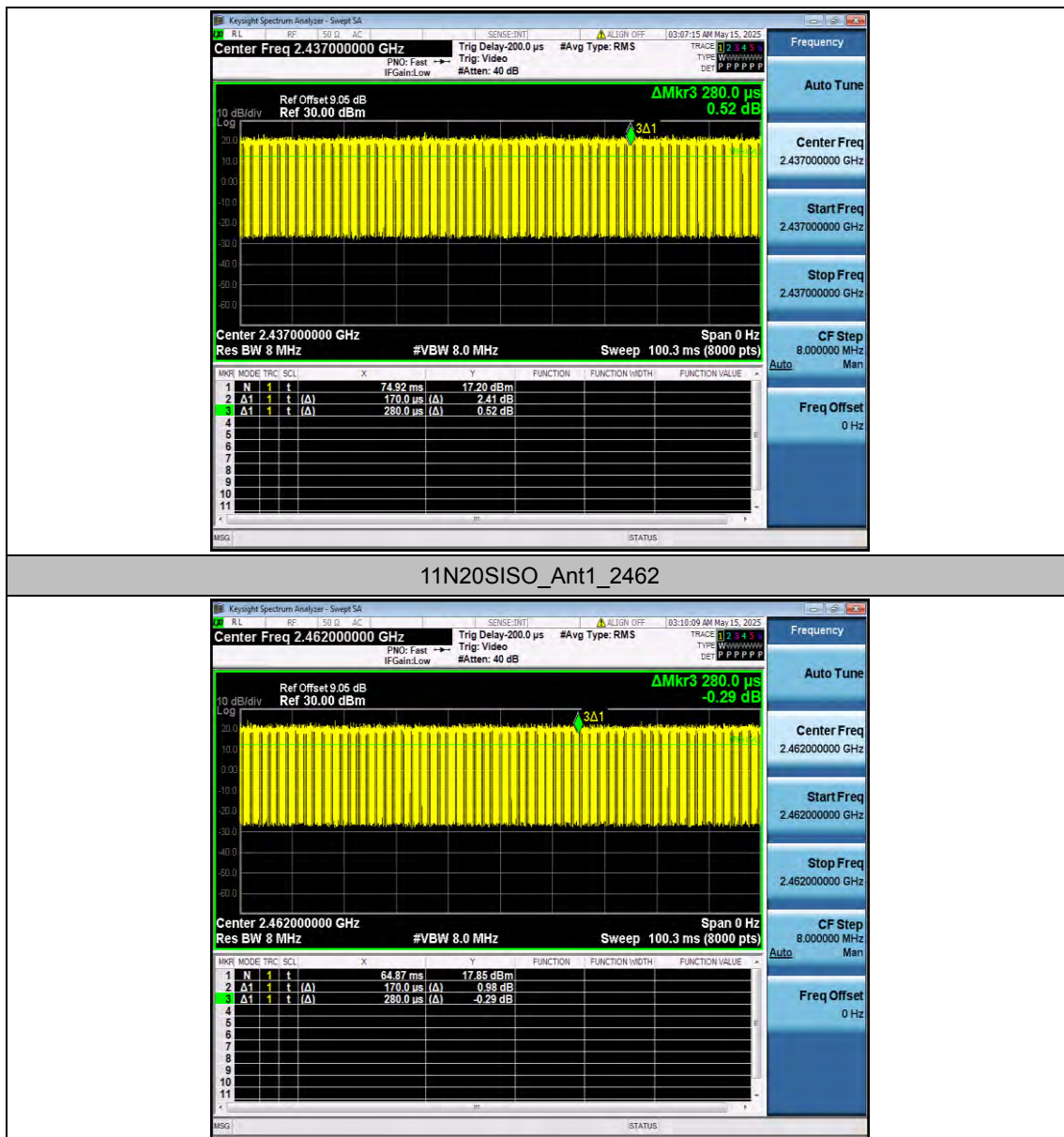
11G_Ant1_2412



11G_Ant1_2437







Appendix A.8: Emissions in Restricted Bands

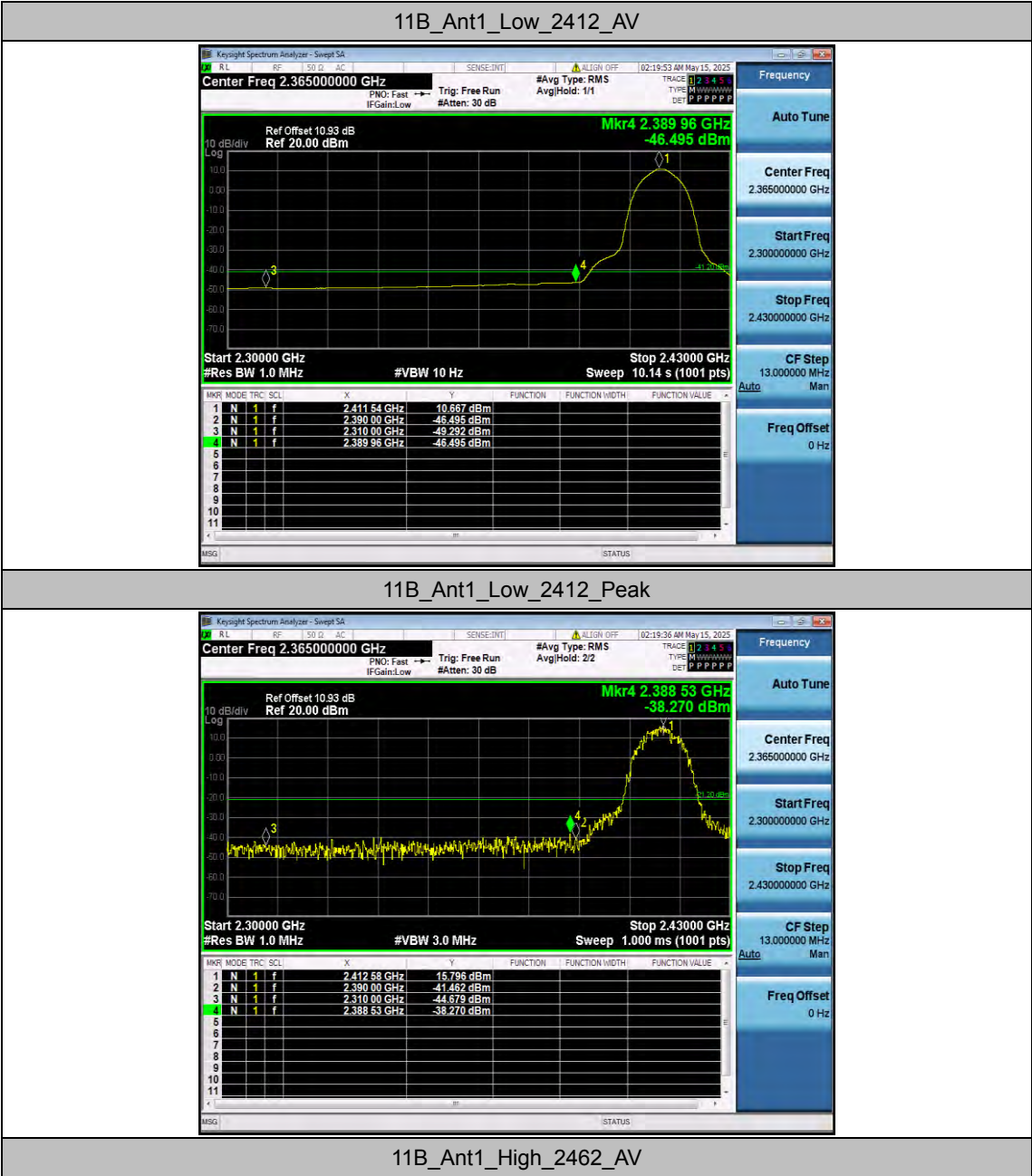
Test Result

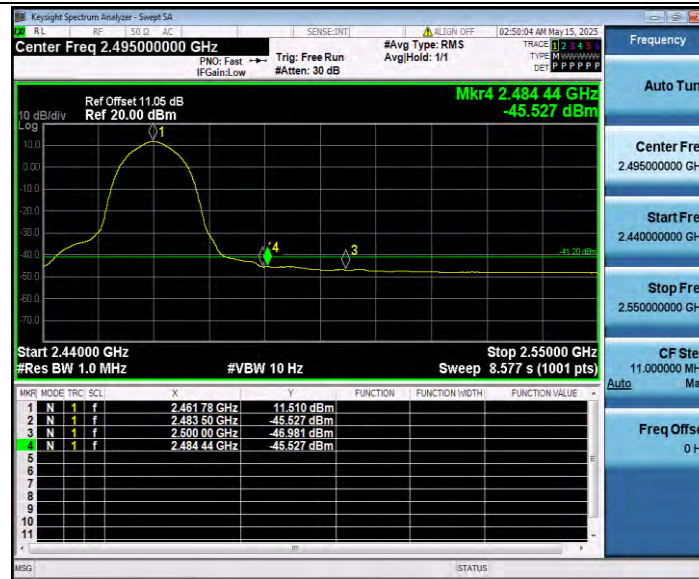
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.29	≤-41.20	45.91	≤54	PASS
				AV	2389.960	-46.49	≤-41.20	48.71	≤54	PASS
				AV	2390.000	-46.5	≤-41.20	48.70	≤54	PASS
				Peak	2310.000	-44.68	≤-21.20	50.52	≤74	PASS
				Peak	2388.530	-38.27	≤-21.20	56.93	≤74	PASS
				Peak	2390.000	-41.46	≤-21.20	53.74	≤74	PASS
		High	2462	AV	2483.500	-45.53	≤-41.20	49.67	≤54	PASS
				AV	2484.440	-45.53	≤-41.20	49.67	≤54	PASS
				AV	2500.000	-46.98	≤-41.20	48.22	≤54	PASS
				Peak	2483.500	-43.06	≤-21.20	52.14	≤74	PASS
				Peak	2484.000	-38.02	≤-21.20	57.18	≤74	PASS
				Peak	2500.000	-43.97	≤-21.20	51.23	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2389.960	-43.88	≤-41.20	51.32	≤54	PASS
				AV	2390.000	-43.88	≤-41.20	51.32	≤54	PASS
				Peak	2310.000	-48.03	≤-21.20	47.17	≤74	PASS
				Peak	2367.730	-35.92	≤-21.20	59.28	≤74	PASS
				Peak	2390.000	-38.91	≤-21.20	56.29	≤74	PASS
		High	2462	AV	2483.500	-42.83	≤-41.20	52.37	≤54	PASS
				AV	2488.400	-41.24	≤-41.20	53.96	≤54	PASS
				AV	2500.000	-46.56	≤-41.20	48.64	≤54	PASS
				Peak	2483.500	-34.32	≤-21.20	60.88	≤74	PASS
				Peak	2491.040	-31.25	≤-21.20	63.95	≤74	PASS
				Peak	2500.000	-41.26	≤-21.20	53.94	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.36	≤-41.20	45.84	≤54	PASS
				AV	2388.920	-41.91	≤-41.20	53.29	≤54	PASS
				AV	2390.000	-44.07	≤-41.20	51.13	≤54	PASS
				Peak	2310.000	-45.4	≤-21.20	49.80	≤74	PASS
				Peak	2340.950	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2390.000	-43.95	≤-21.20	51.25	≤74	PASS
		High	2462	AV	2483.500	-43.12	≤-41.20	52.08	≤54	PASS
				AV	2483.560	-43.15	≤-41.20	52.05	≤54	PASS
				AV	2500.000	-46.7	≤-41.20	48.50	≤54	PASS
				Peak	2483.500	-45.86	≤-21.20	49.34	≤74	PASS
				Peak	2496.980	-40.77	≤-21.20	54.43	≤74	PASS
				Peak	2500.000	-49.68	≤-21.20	45.52	≤74	PASS

Note:

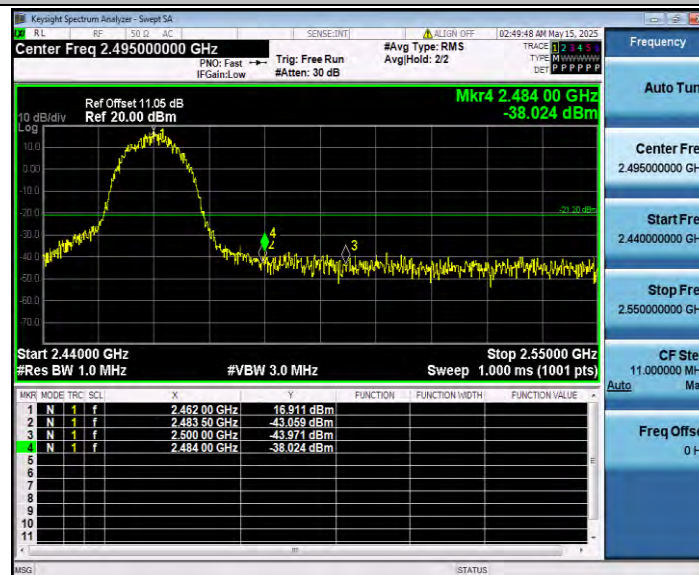
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





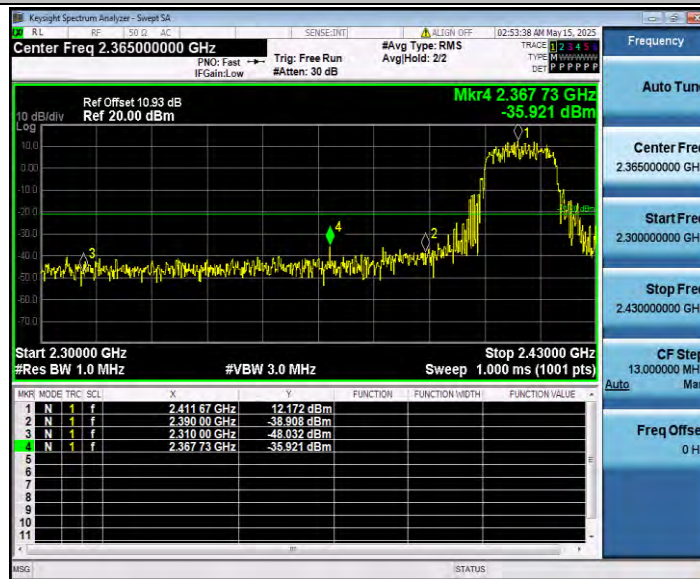
11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



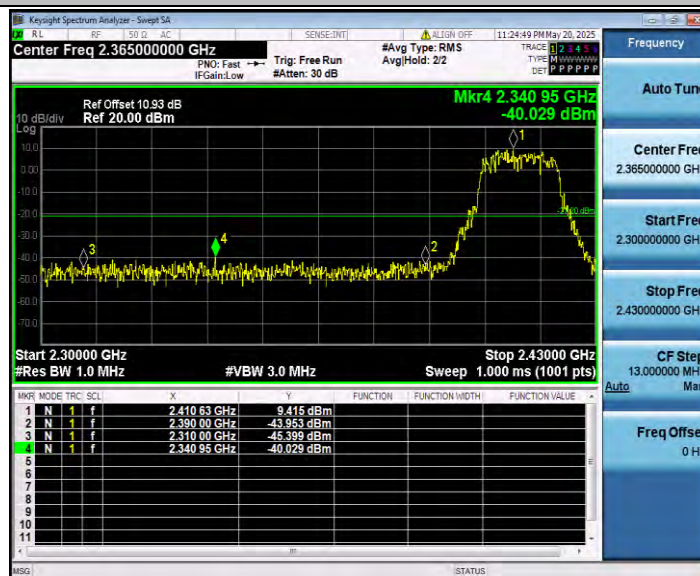
11G_Ant1_High_2462_Peak



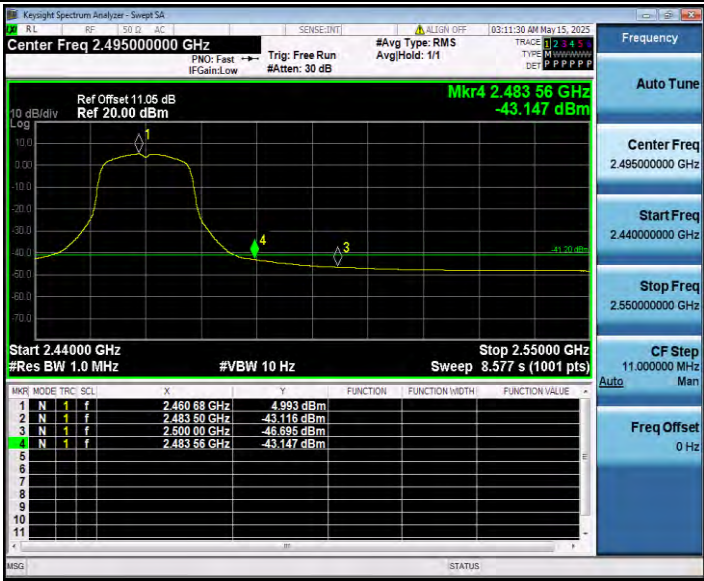
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

