

Case No. : <u>GTS20241121026-1-03</u>	
Ambient Condition: <u>22</u> °C, <u>59</u> %RH, According Standard: ■Part15C	
Test Date: <u>2024.11.29</u>	Test Engineer: <u>Evan ouyang</u>

Appendix C.1: DTS Bandwidth

Test Result

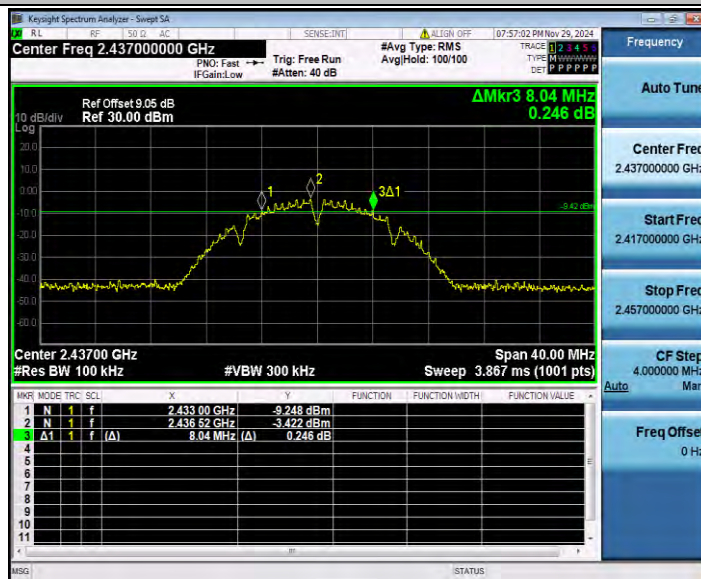
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.520	2409.480	2417.000	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	6.120	2459.440	2465.560	0.5	PASS
11G	Ant1	2412	8.800	2411.360	2420.160	0.5	PASS
		2437	16.440	2428.720	2445.160	0.5	PASS
		2462	10.000	2458.520	2468.520	0.5	PASS
11N20SISO	Ant1	2412	9.400	2411.360	2420.760	0.5	PASS
		2437	17.640	2428.120	2445.760	0.5	PASS
		2462	9.600	2458.880	2468.480	0.5	PASS
11N40SISO	Ant1	2422	10.960	2413.520	2424.480	0.5	PASS
		2437	12.480	2418.680	2431.160	0.5	PASS
		2452	13.840	2455.360	2469.200	0.5	PASS

Test Graphs

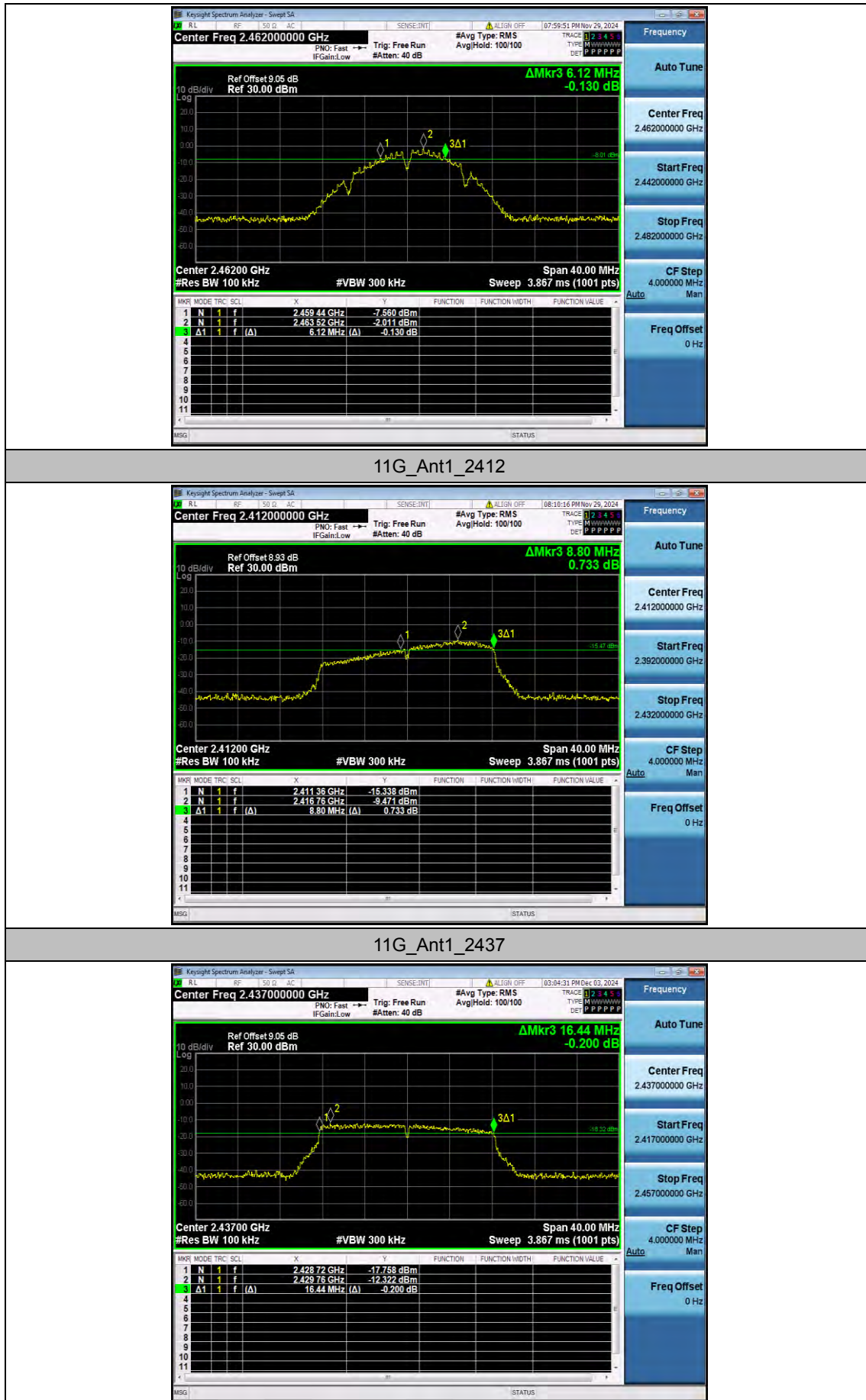
11B_Ant1_2412



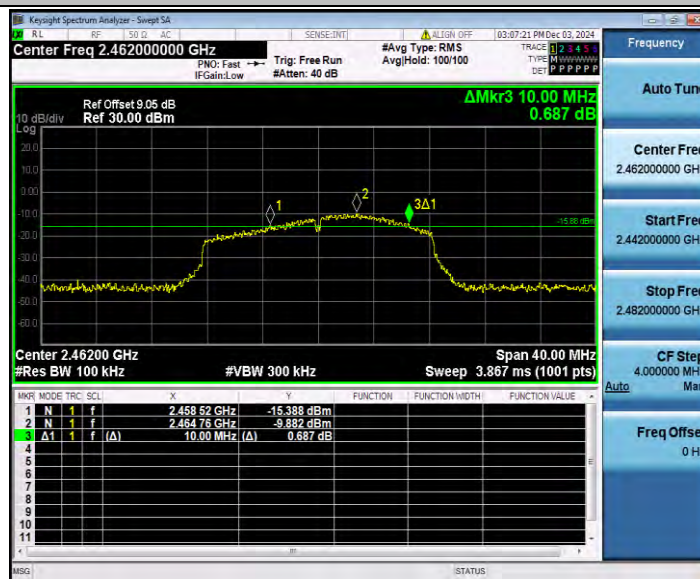
11B_Ant1_2437



11B_Ant1_2462



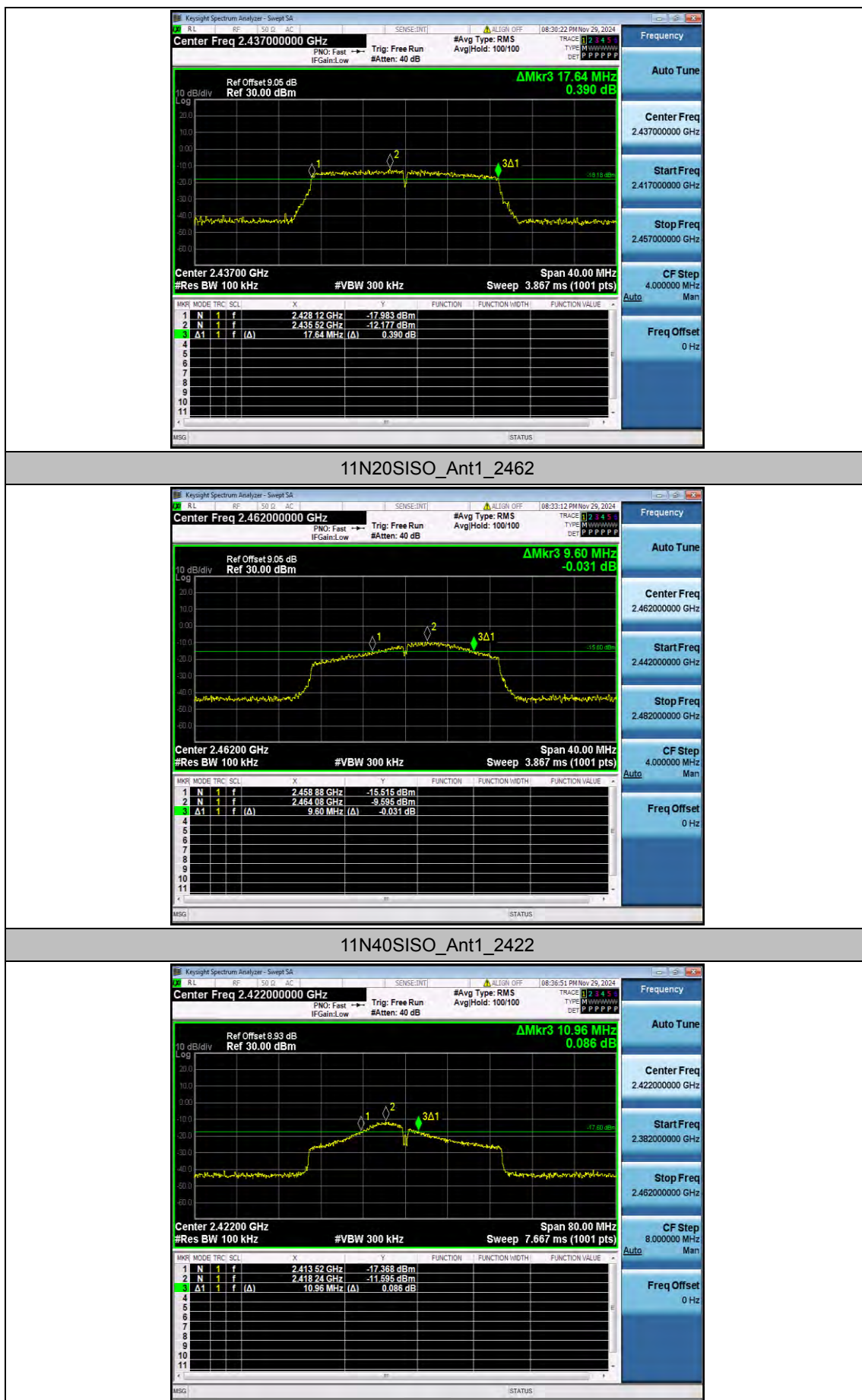
11G_Ant1_2462



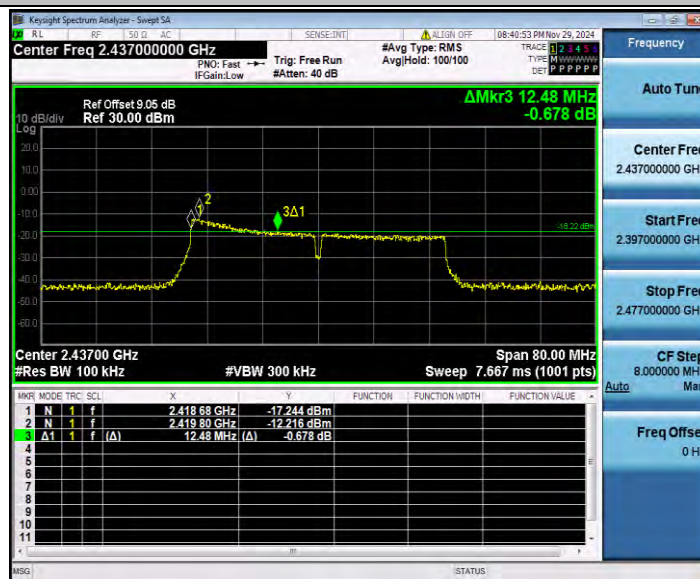
11N20SISO_Ant1_2412



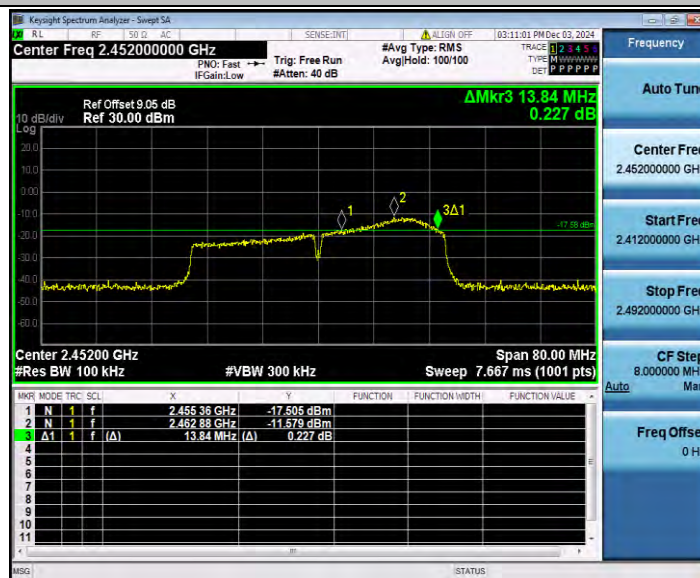
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



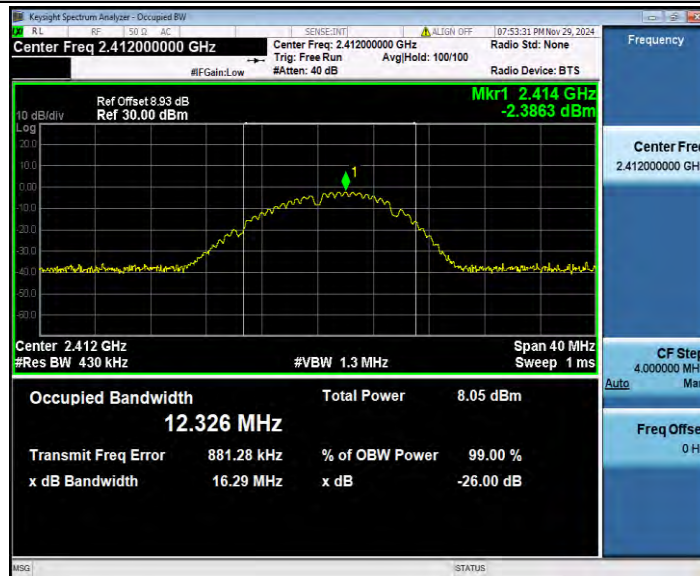
Appendix C.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.326	2406.7183	2419.0443	---	---
		2437	13.452	2430.1301	2443.5821	---	---
		2462	11.769	2456.5189	2468.2879	---	---
11G	Ant1	2412	16.381	2404.2871	2420.6681	---	---
		2437	17.139	2428.2143	2445.3533	---	---
		2462	16.049	2454.1430	2470.1920	---	---
11N20SISO	Ant1	2412	17.366	2403.7271	2421.0931	---	---
		2437	18.053	2427.8783	2445.9313	---	---
		2462	17.058	2453.6286	2470.6866	---	---
11N40SISO	Ant1	2422	34.588	2404.7534	2439.3414	---	---
		2437	37.518	2417.8190	2455.3370	---	---
		2452	35.881	2434.3865	2470.2675	---	---

Test Graphs

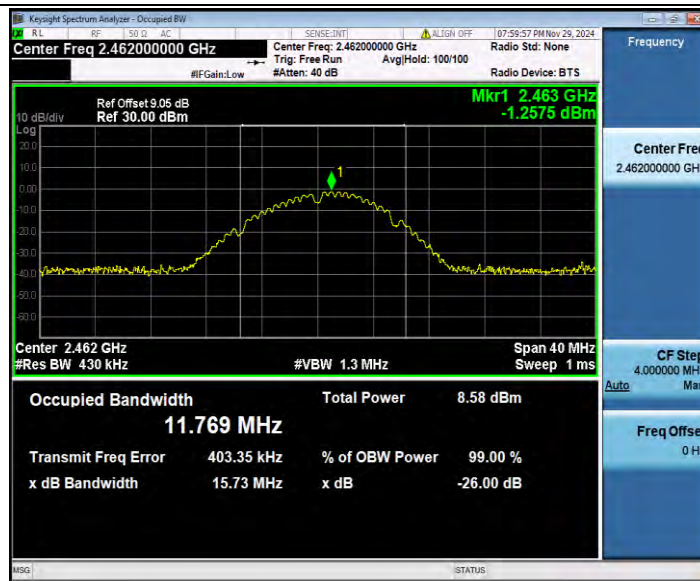
11B_Ant1_2412



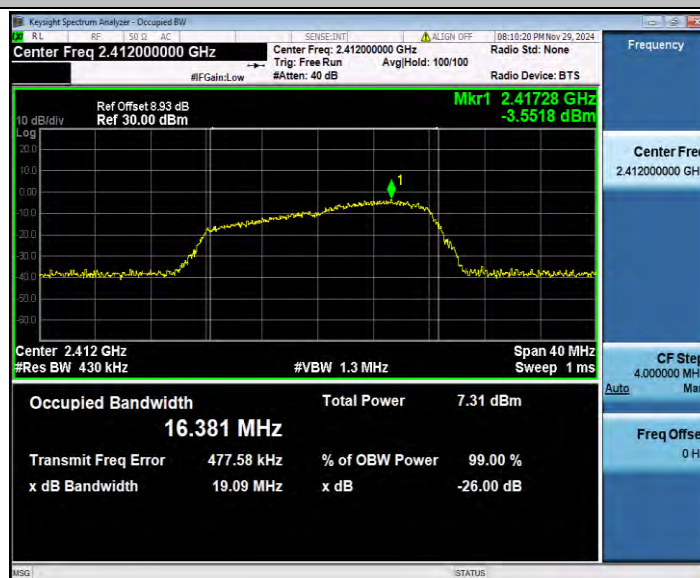
11B_Ant1_2437



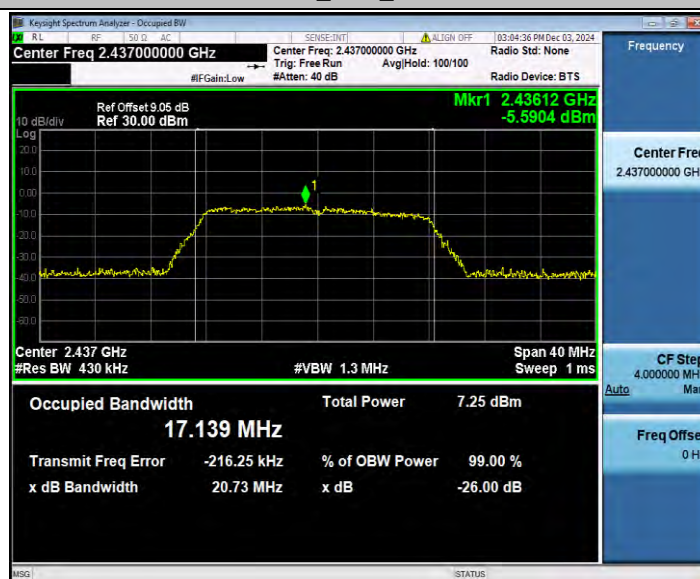
11B_Ant1_2462



11G_Ant1_2412



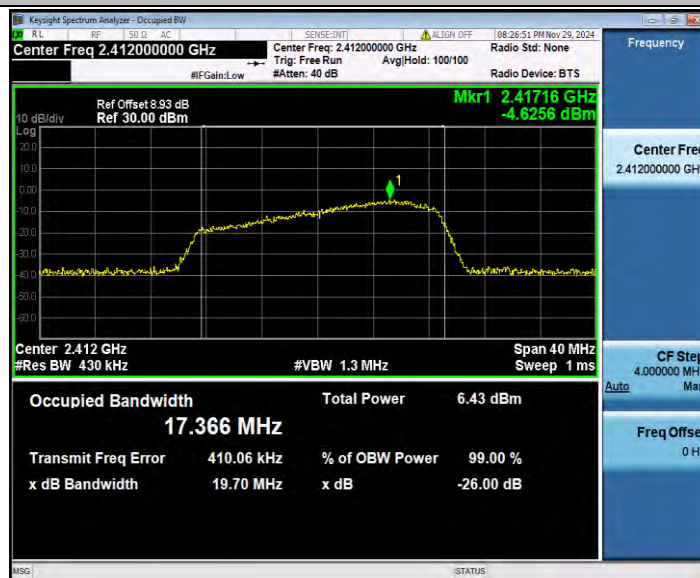
11G_Ant1_2437



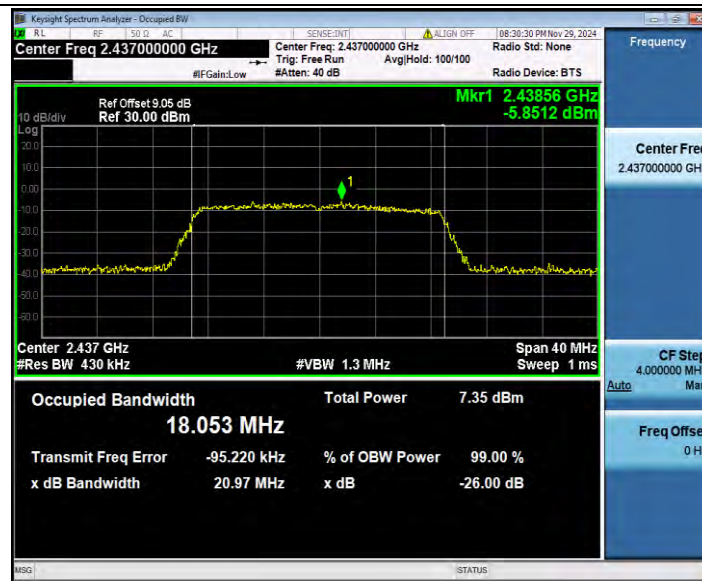
11G_Ant1_2462



11N20SISO_Ant1_2412



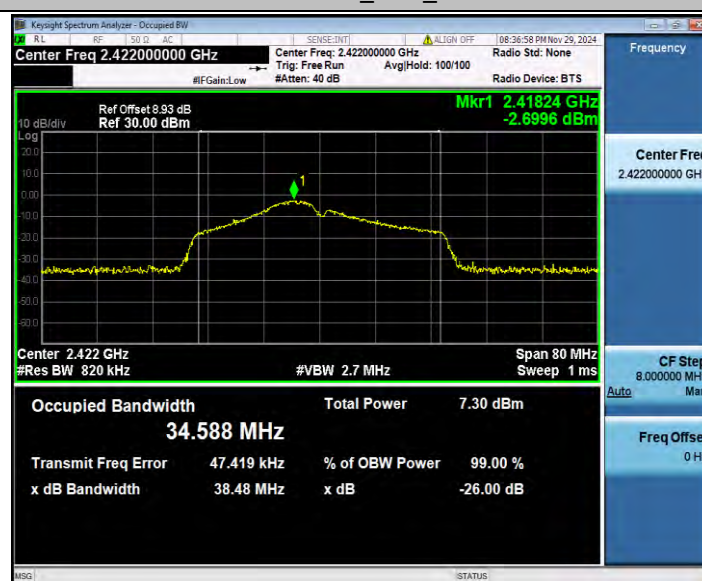
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



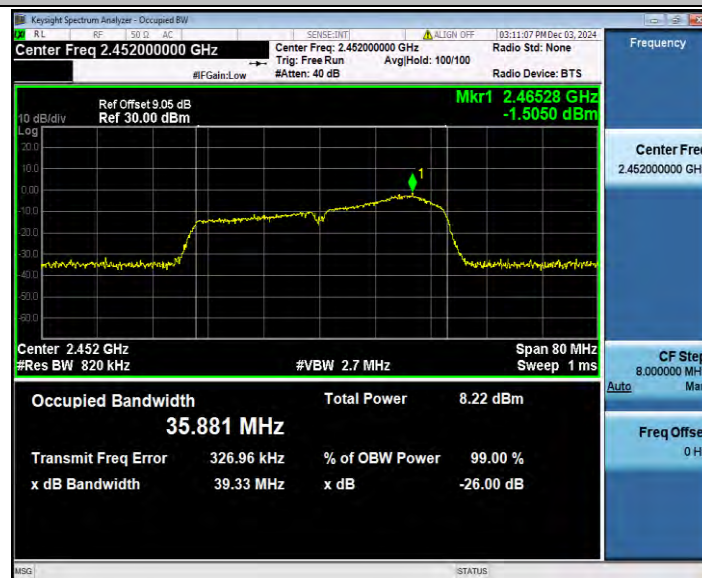
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.10	≤30.00	PASS
		2437	8.03	≤30.00	PASS
		2462	8.62	≤30.00	PASS
11G	Ant1	2412	8.54	≤30.00	PASS
		2437	8.40	≤30.00	PASS
		2462	8.64	≤30.00	PASS
11N20SISO	Ant1	2412	7.65	≤30.00	PASS
		2437	8.55	≤30.00	PASS
		2462	8.93	≤30.00	PASS
11N40SISO	Ant1	2422	7.75	≤30.00	PASS
		2437	7.88	≤30.00	PASS
		2452	8.48	≤30.00	PASS

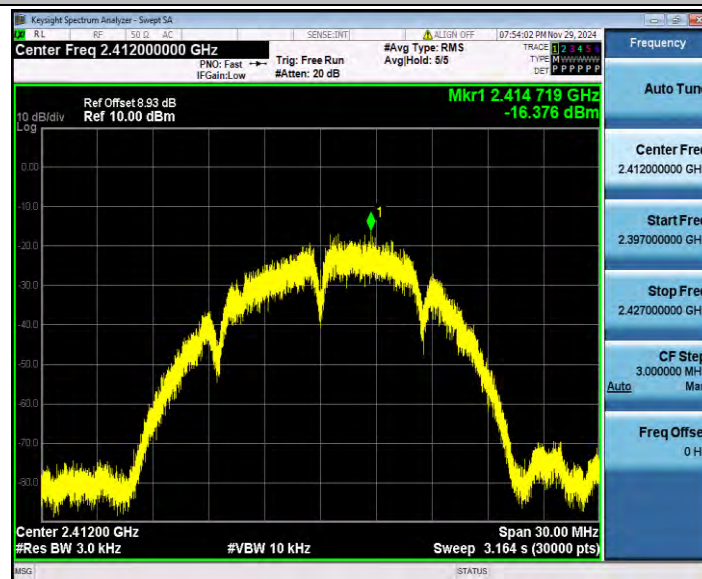
Appendix C.4: Maximum power spectral density

Test Result

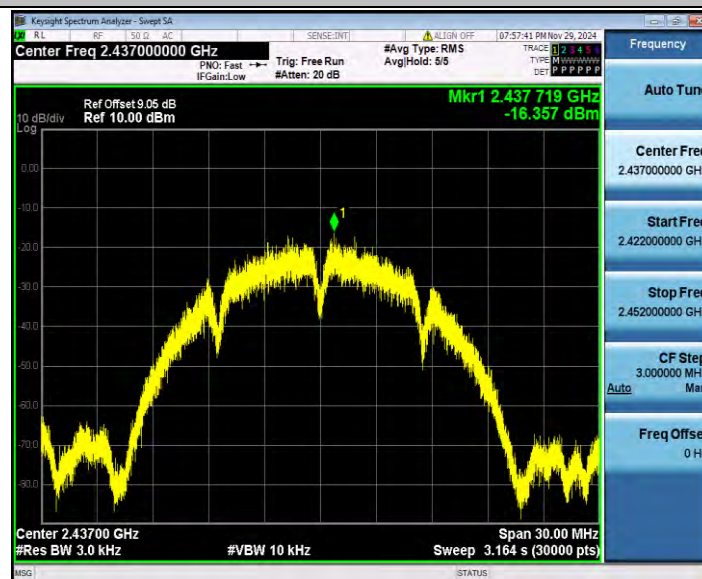
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.38	≤8.00	PASS
		2437	-16.36	≤8.00	PASS
		2462	-14.95	≤8.00	PASS
11G	Ant1	2412	-22.07	≤8.00	PASS
		2437	-23.95	≤8.00	PASS
		2462	-20.45	≤8.00	PASS
11N20SISO	Ant1	2412	-22.23	≤8.00	PASS
		2437	-23.48	≤8.00	PASS
		2462	-19.91	≤8.00	PASS
11N40SISO	Ant1	2422	-22.24	≤8.00	PASS
		2437	-24.27	≤8.00	PASS
		2452	-24.09	≤8.00	PASS

Test Graphs

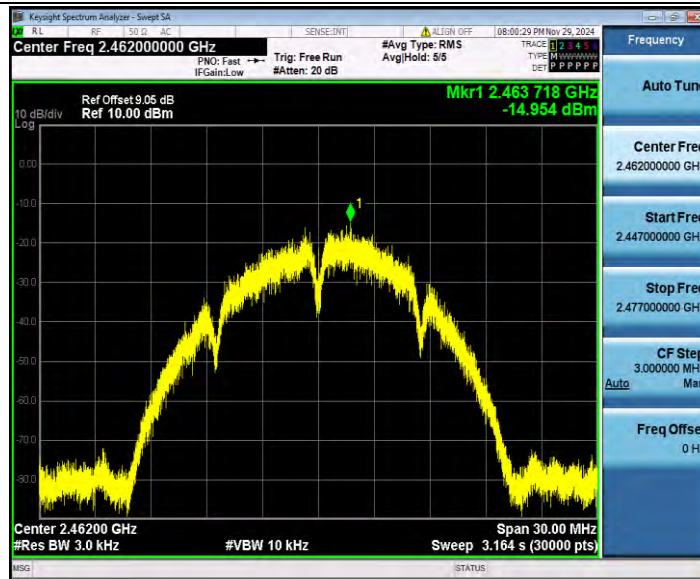
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



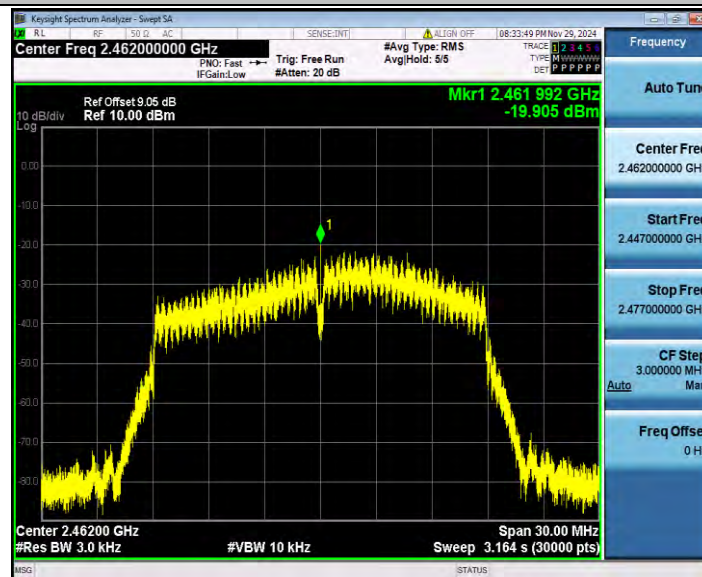
11N20SISO_Ant1_2412



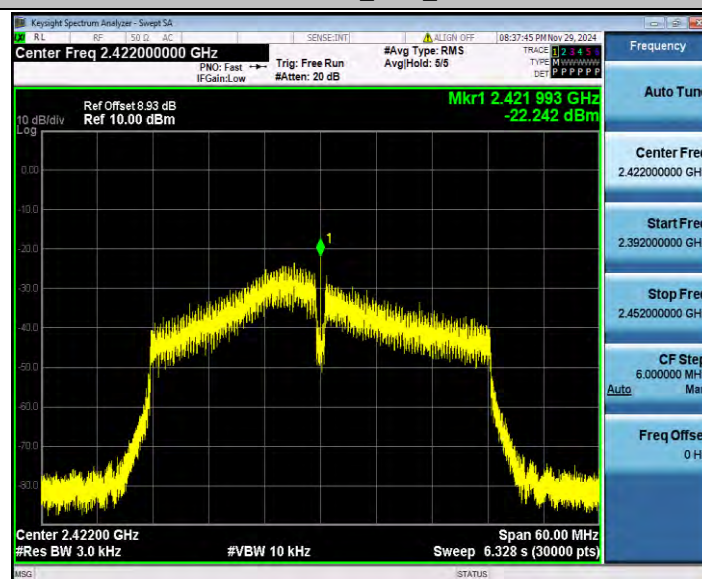
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



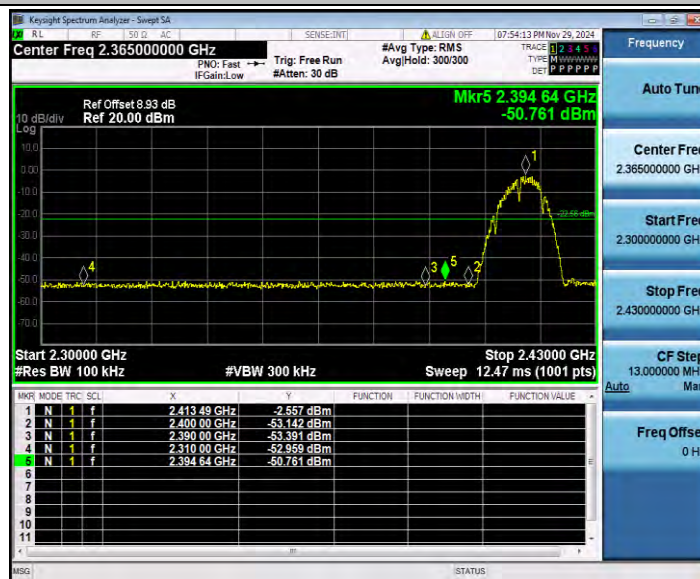
Appendix C.5: Band edge measurements

Test Result

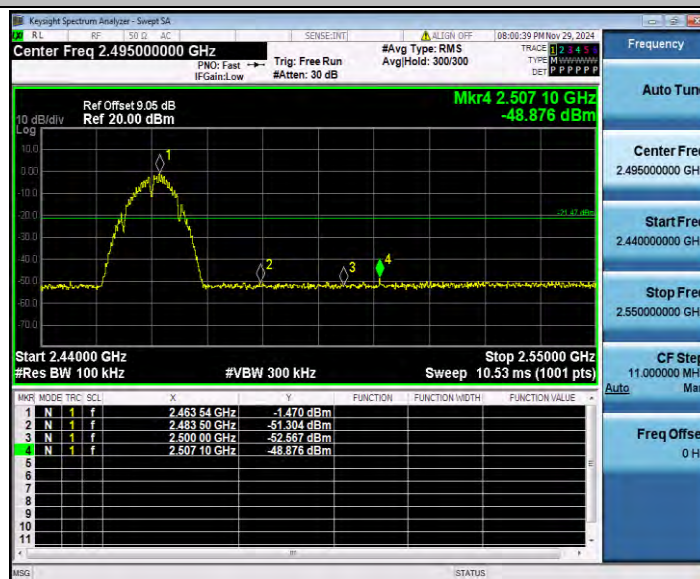
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-2.56	-50.76	≤ -22.56	PASS
		High	2462	-1.47	-48.88	≤ -21.47	PASS
11G	Ant1	Low	2412	-9.75	-49.74	≤ -29.75	PASS
		High	2462	-8.99	-49.16	≤ -28.99	PASS
11N20SISO	Ant1	Low	2412	-10.54	-44.08	≤ -30.54	PASS
		High	2462	-9.25	-49.45	≤ -29.25	PASS
11N40SISO	Ant1	Low	2422	-10.89	-45.89	≤ -30.89	PASS
		High	2452	-11.08	-48.46	≤ -31.08	PASS

Test Graphs

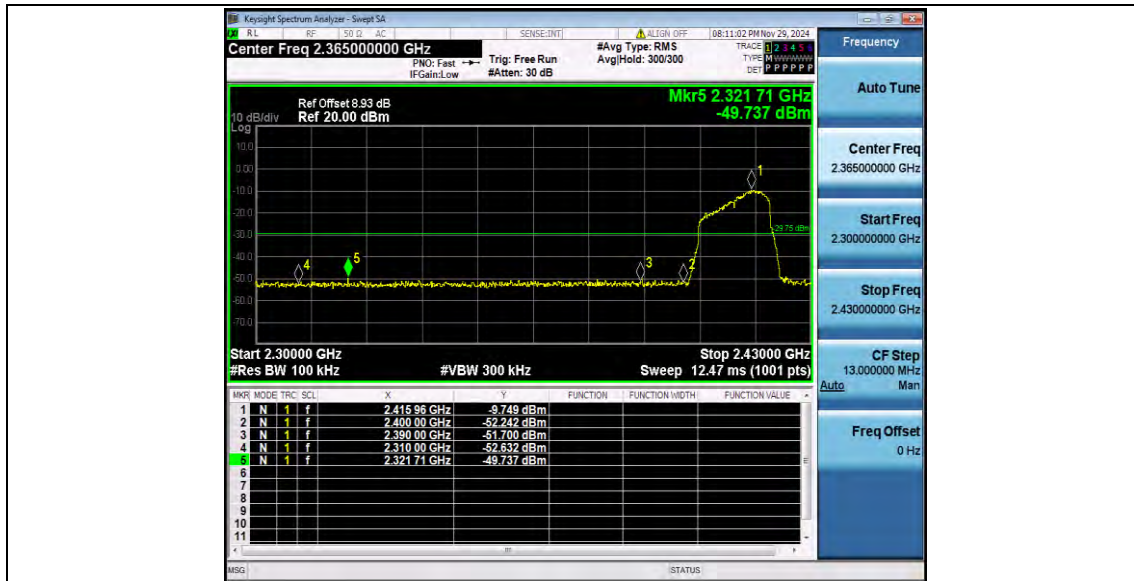
11B_Ant1_Low_2412



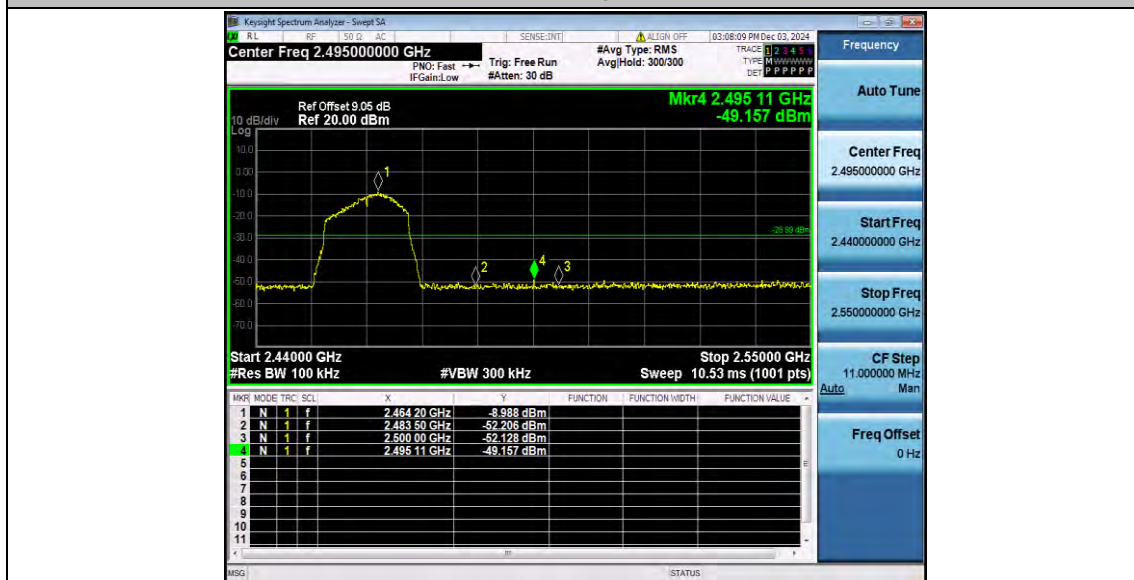
11B_Ant1_High_2462



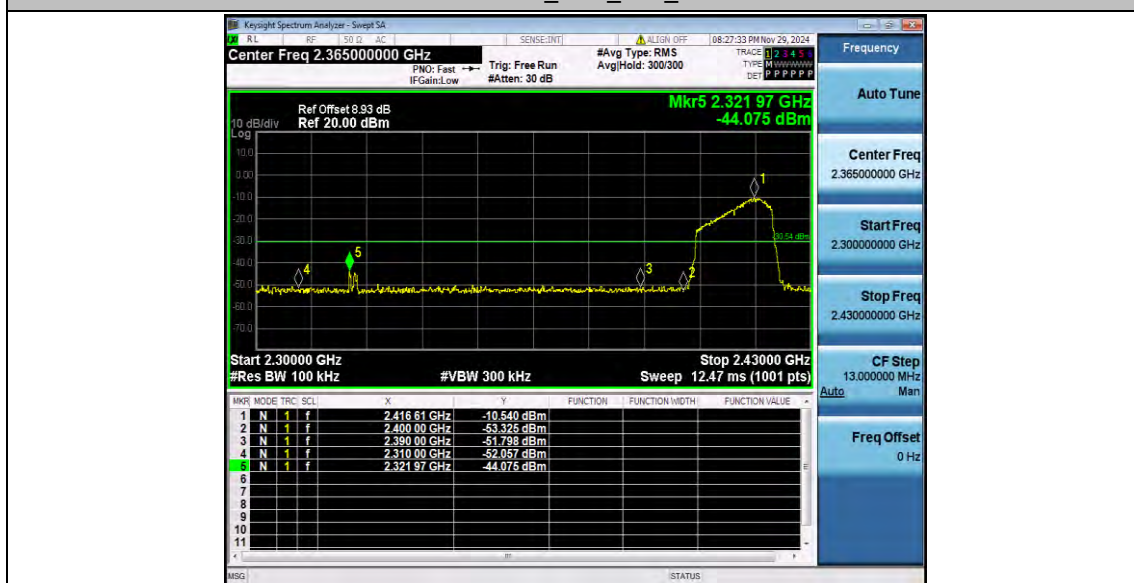
11G_Ant1_Low_2412



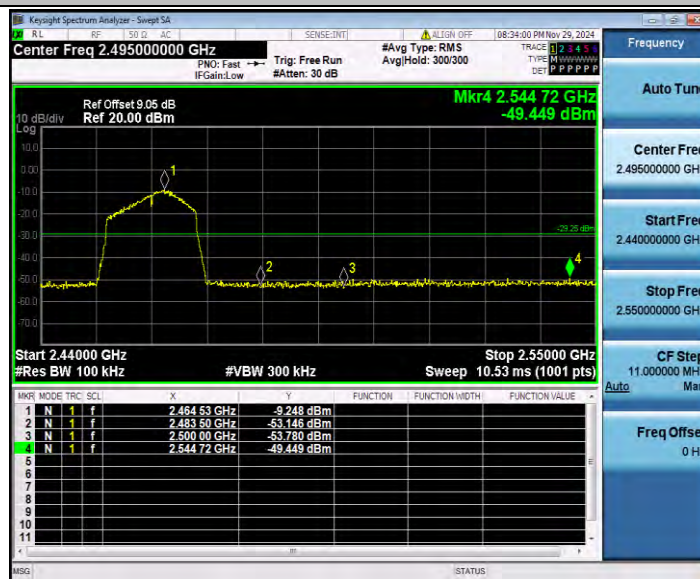
11G_Ant1_High_2462



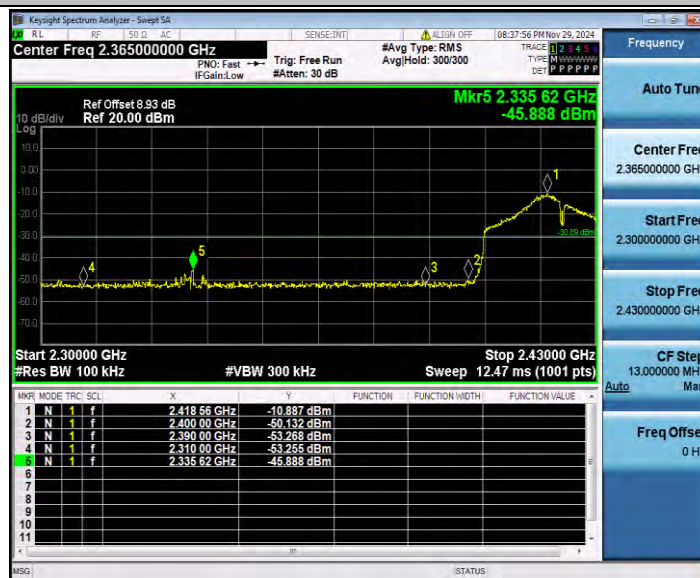
11N20SISO_Ant1_Low_2412



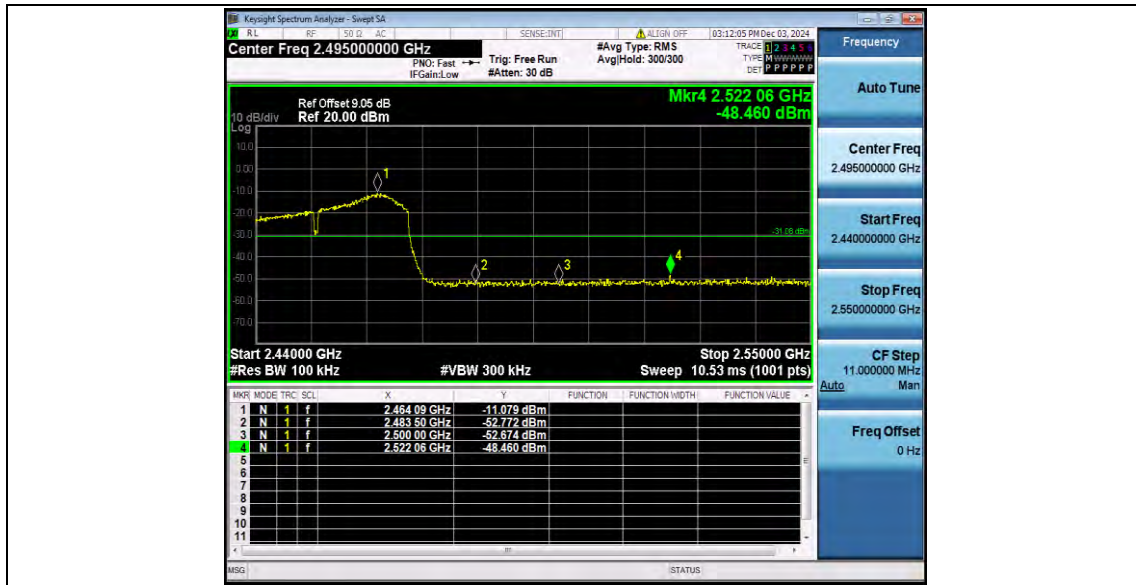
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

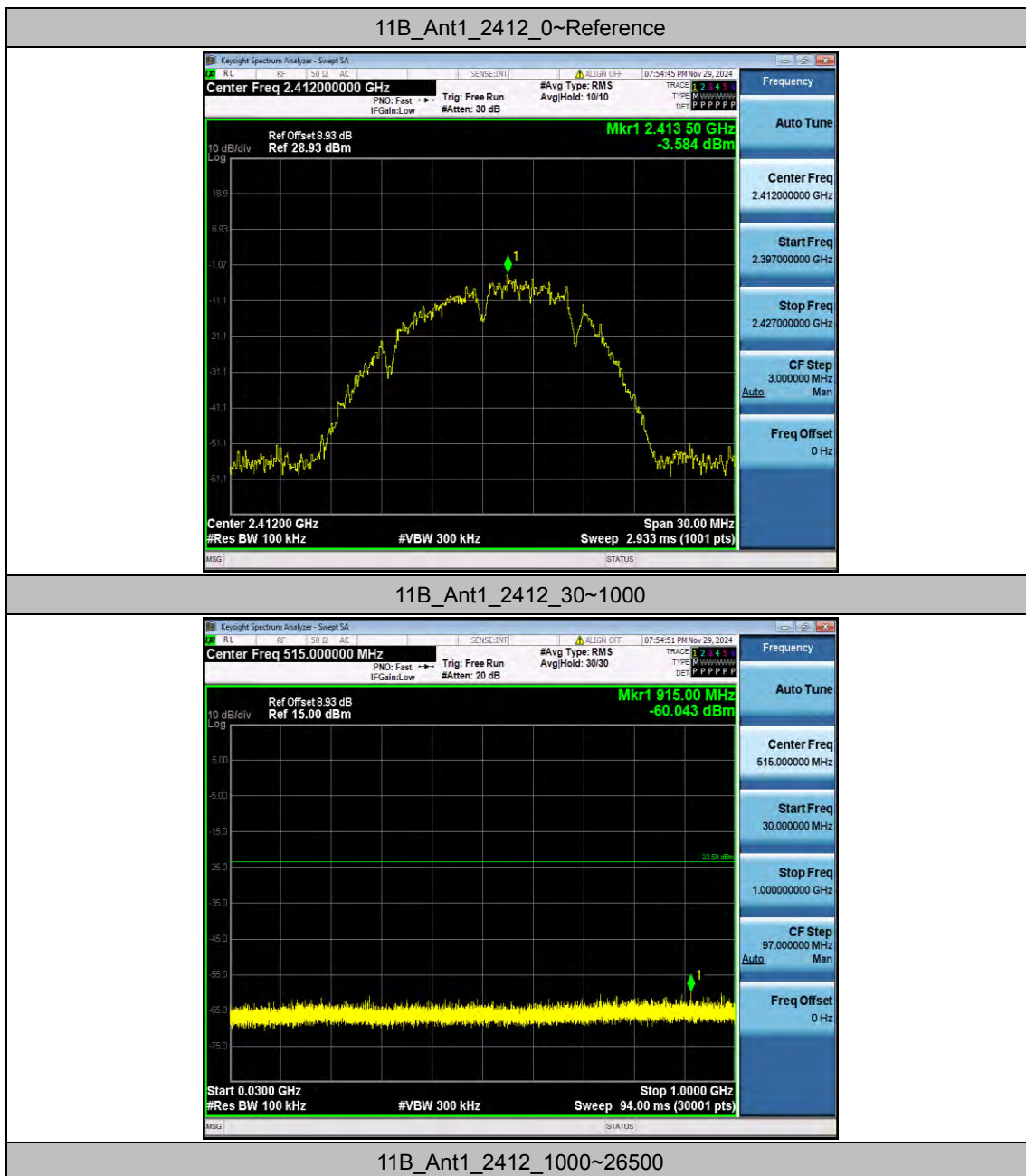


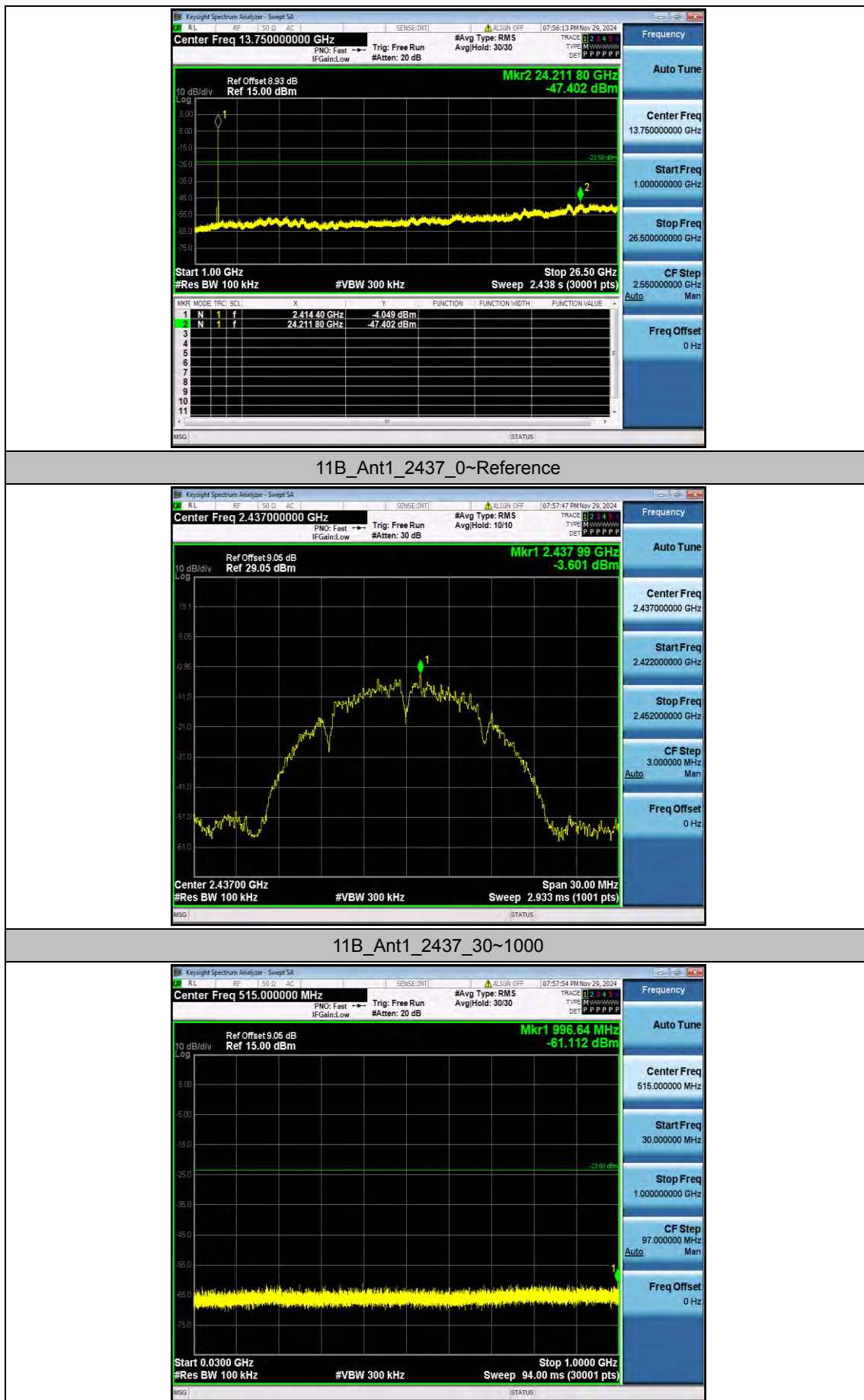
Appendix C.6: Conducted Spurious Emission

Test Result

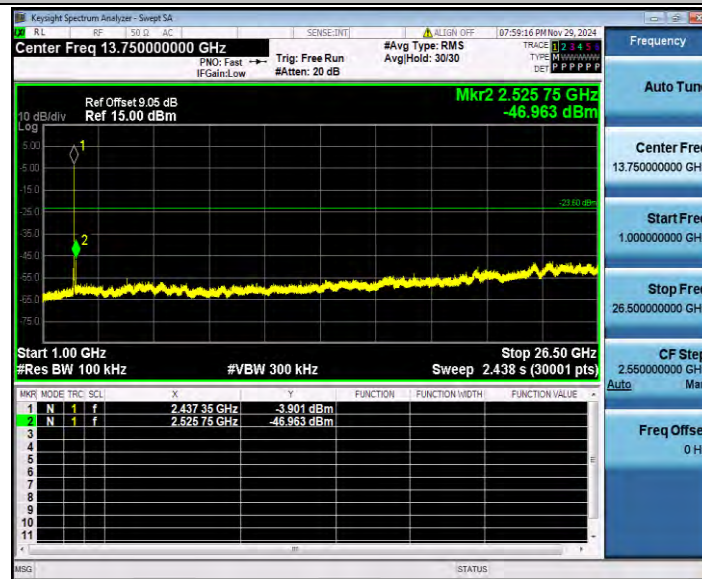
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-60.04	≤ -23.58	PASS
			1000~26500	-3.58	-47.4	≤ -23.58	PASS
		2437	Reference	-3.60	-3.60	---	PASS
			30~1000	-3.60	-61.11	≤ -23.6	PASS
			1000~26500	-3.60	-46.96	≤ -23.6	PASS
		2462	Reference	-2.93	-2.93	---	PASS
			30~1000	-2.93	-37.36	≤ -22.93	PASS
			1000~26500	-2.93	-45.78	≤ -22.93	PASS
11G	Ant1	2412	Reference	-10.96	-10.96	---	PASS
			30~1000	-10.96	-61.13	≤ -30.96	PASS
			1000~26500	-10.96	-48.3	≤ -30.96	PASS
		2437	Reference	-13.21	-13.21	---	PASS
			30~1000	-13.21	-60.36	≤ -33.21	PASS
			1000~26500	-13.21	-47.48	≤ -33.21	PASS
		2462	Reference	-9.98	-9.98	---	PASS
			30~1000	-9.98	-60.44	≤ -29.98	PASS
			1000~26500	-9.98	-48.28	≤ -29.98	PASS
11N20SISO	Ant1	2412	Reference	-12.02	-12.02	---	PASS
			30~1000	-12.02	-60.47	≤ -32.02	PASS
			1000~26500	-12.02	-46.64	≤ -32.02	PASS
		2437	Reference	-13.01	-13.01	---	PASS
			30~1000	-13.01	-60.9	≤ -33.01	PASS
			1000~26500	-13.01	-40.63	≤ -33.01	PASS
		2462	Reference	-10.45	-10.45	---	PASS
			30~1000	-10.45	-60.54	≤ -30.45	PASS
			1000~26500	-10.45	-47	≤ -30.45	PASS
11N40SISO	Ant1	2422	Reference	-12.61	-12.61	---	PASS
			30~1000	-12.61	-60.92	≤ -32.61	PASS
			1000~26500	-12.61	-38.22	≤ -32.61	PASS
		2437	Reference	-13.38	-13.38	---	PASS
			30~1000	-13.38	-60.09	≤ -33.38	PASS
			1000~26500	-13.38	-34.39	≤ -33.38	PASS
		2452	Reference	-12.29	-12.29	---	PASS
			30~1000	-12.29	-60.57	≤ -32.29	PASS
			1000~26500	-12.29	-47.62	≤ -32.29	PASS

Test Graphs





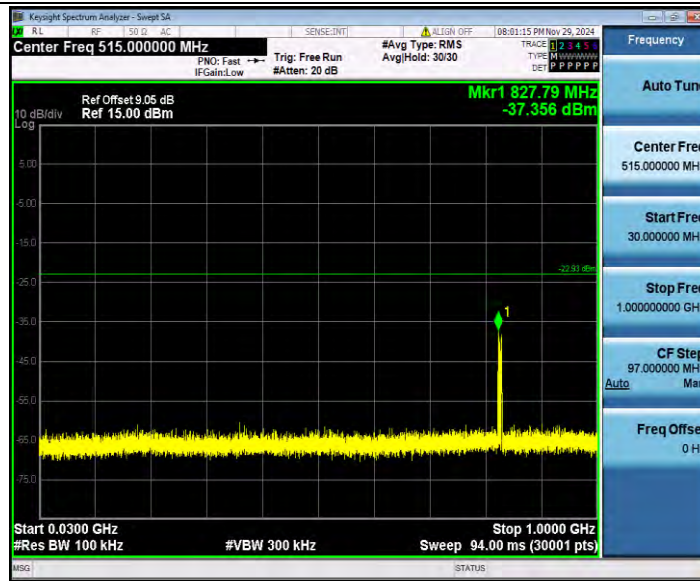
11B_Ant1_2437_1000~26500



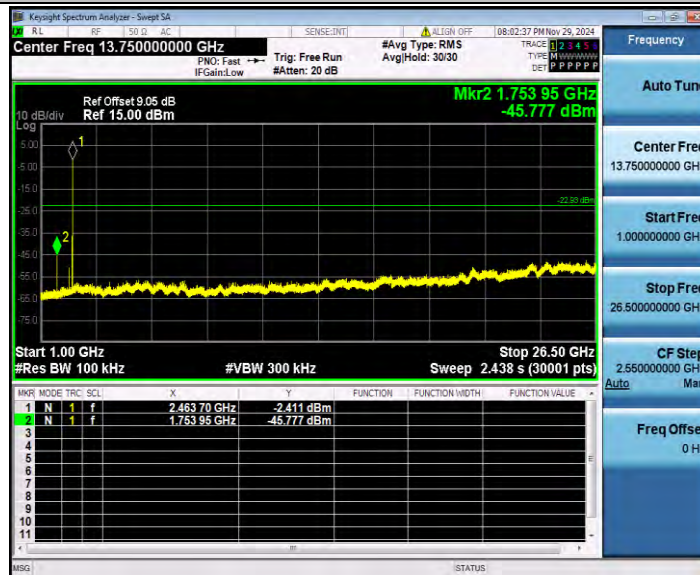
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



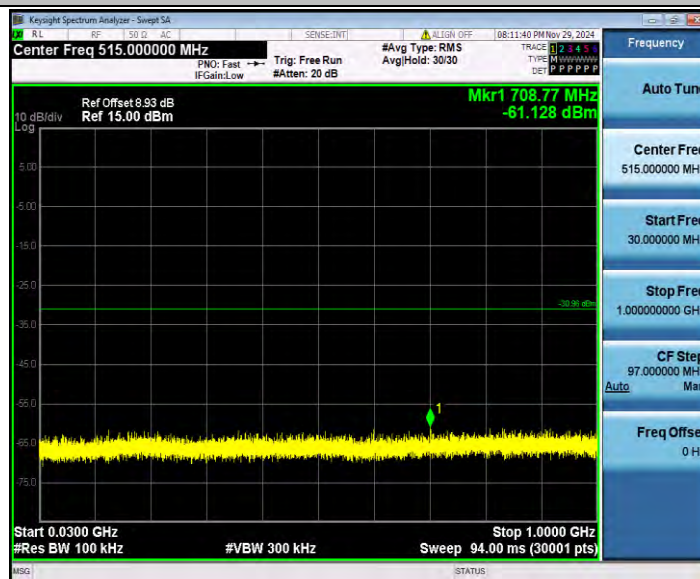
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



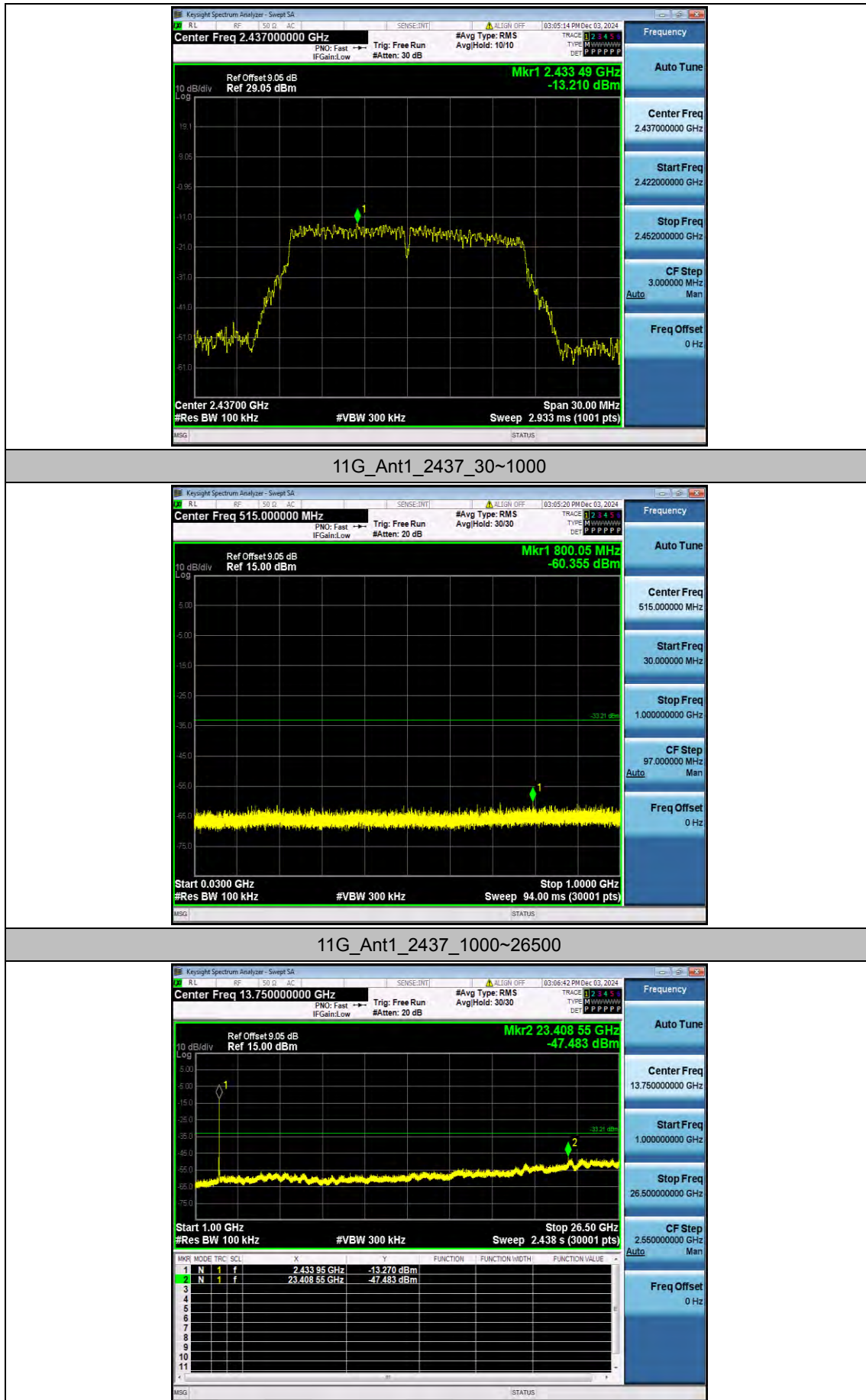
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



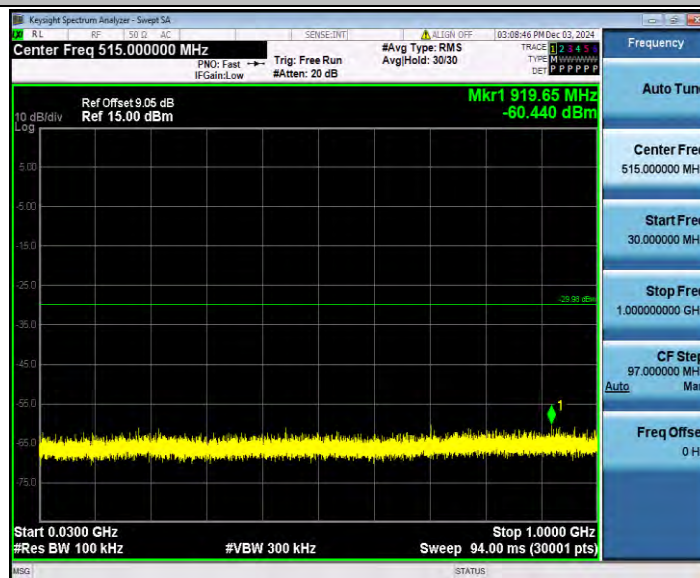
11G_Ant1_2437_0~Reference



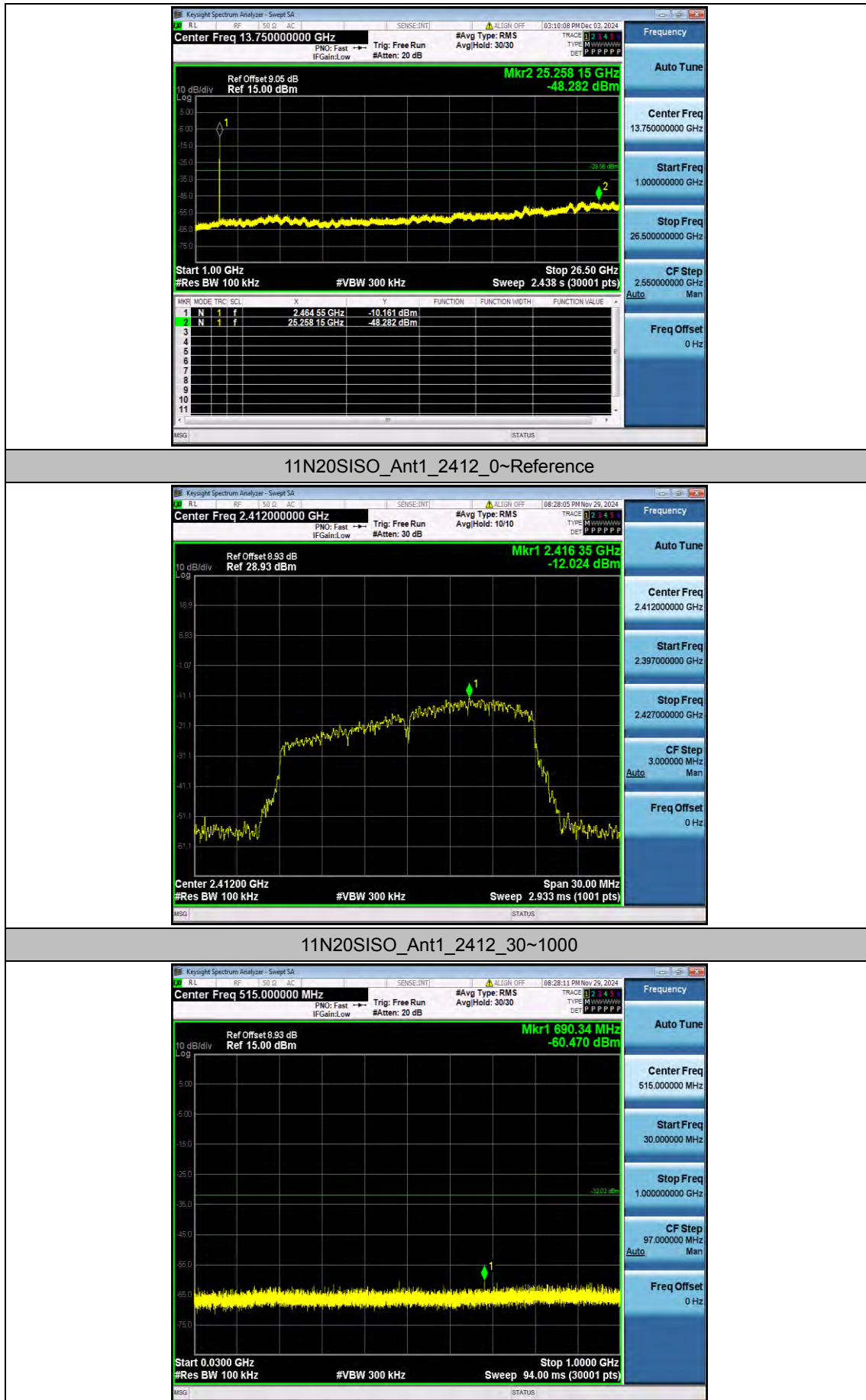
11G_Ant1_2462_0~Reference



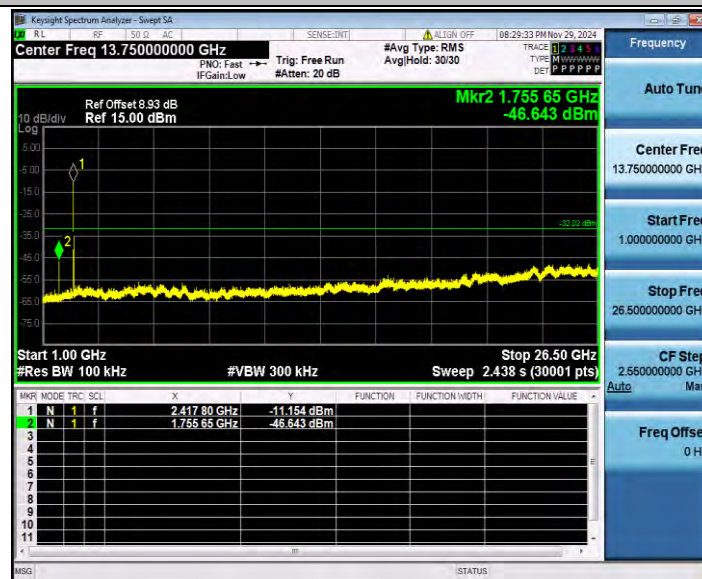
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



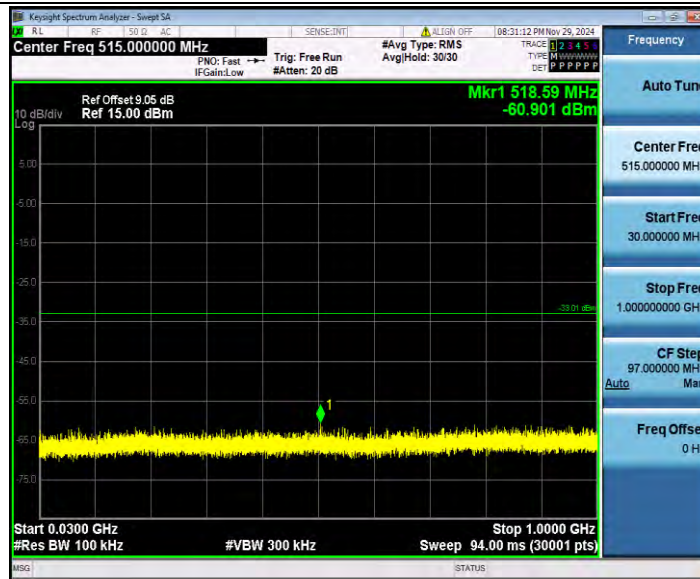
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



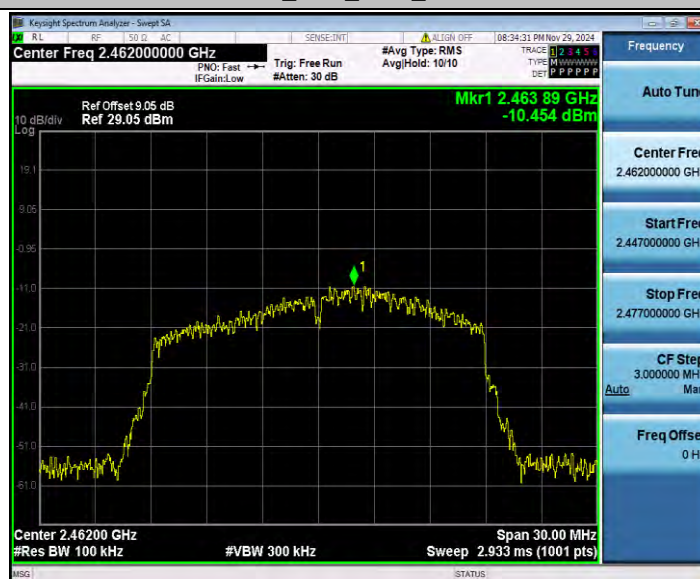
11N20SISO_Ant1_2437_30~1000



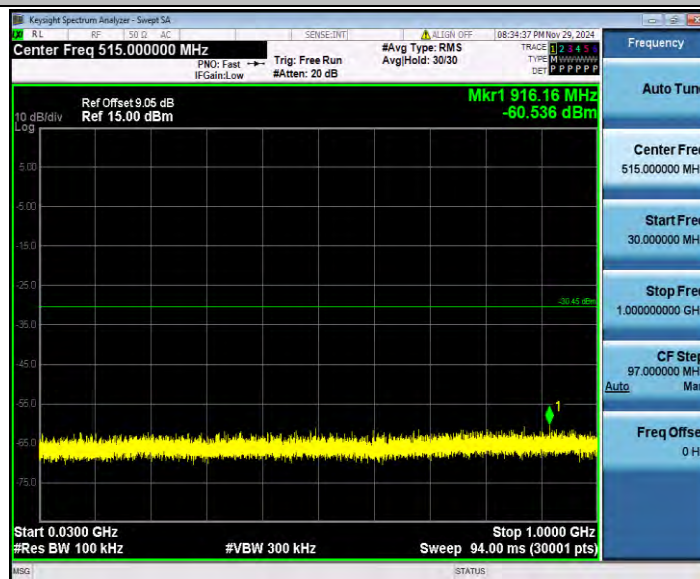
11N20SISO_Ant1_2437_1000~26500



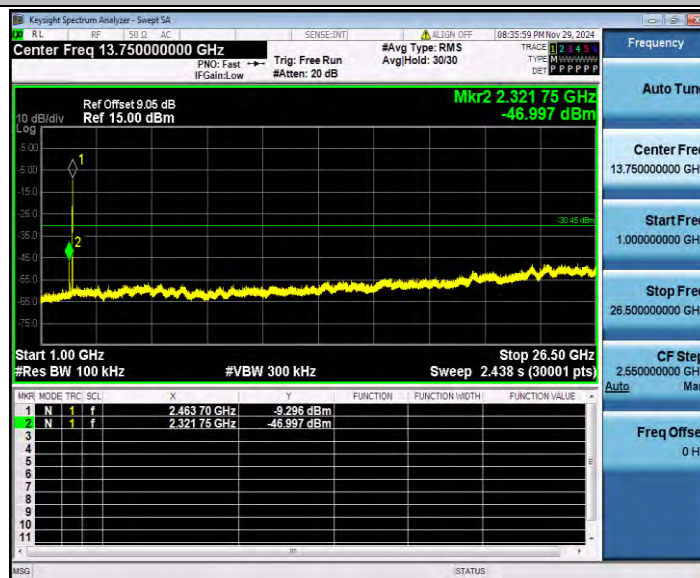
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



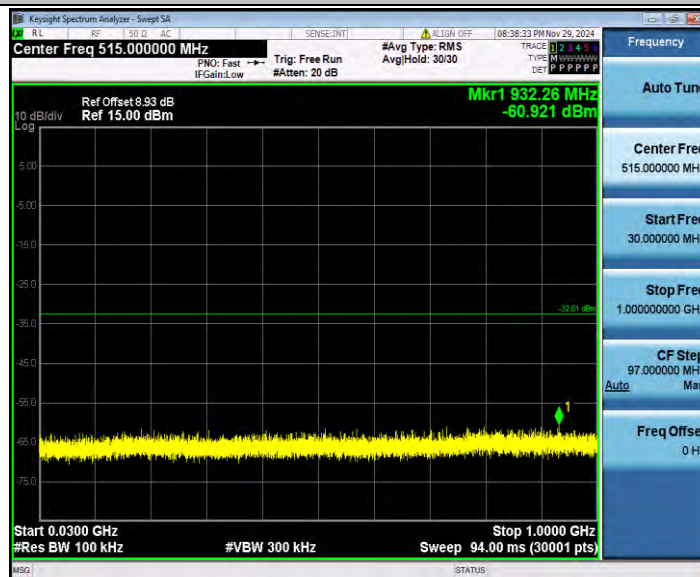
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



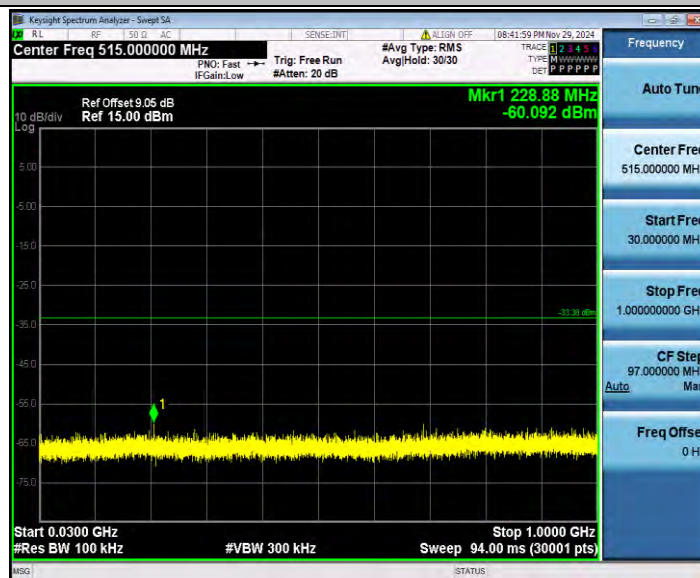
11N40SISO_Ant1_2422_1000~26500



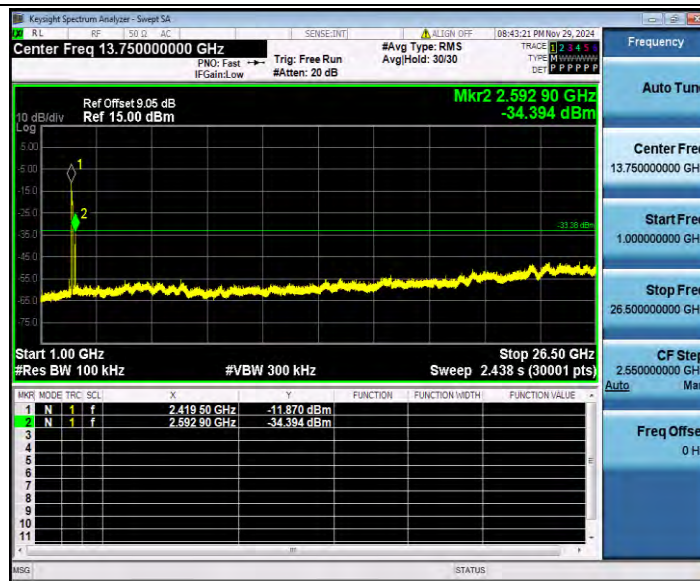
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



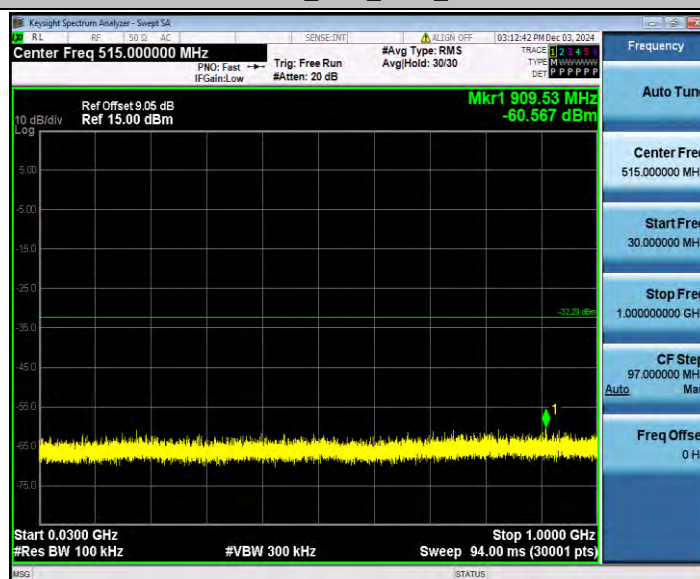
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





Appendix C.7: 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	-49.61	≤-41.20	45.59	≤54	PASS
				AV	2389.960	-49.27	≤-41.20	45.93	≤54	PASS
				AV	2390.000	-49.27	≤-41.20	45.93	≤54	PASS
				Peak	2310.000	-45.84	≤-21.20	49.36	≤74	PASS
				Peak	2320.930	-39.6	≤-21.20	55.60	≤74	PASS
				Peak	2390.000	-49.64	≤-21.20	45.56	≤74	PASS
		High	2462	AV	2483.500	-49.16	≤-41.20	46.04	≤54	PASS
				AV	2499.950	-48.91	≤-41.20	46.29	≤54	PASS
				AV	2500.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2483.500	-49.06	≤-21.20	46.14	≤74	PASS
				Peak	2492.250	-41.64	≤-21.20	53.56	≤74	PASS
				Peak	2500.000	-47.22	≤-21.20	47.98	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.65	≤-41.20	45.55	≤54	PASS
				AV	2389.310	-49.23	≤-41.20	45.97	≤54	PASS
				AV	2390.000	-49.26	≤-41.20	45.94	≤54	PASS
				Peak	2310.000	-46.57	≤-21.20	48.63	≤74	PASS
				Peak	2371.630	-40.99	≤-21.20	54.21	≤74	PASS
				Peak	2390.000	-46.12	≤-21.20	49.08	≤74	PASS
		High	2462	AV	2483.500	-49.27	≤-41.20	45.93	≤54	PASS
				AV	2499.620	-49	≤-41.20	46.20	≤54	PASS
				AV	2500.000	-49.04	≤-41.20	46.16	≤54	PASS
				Peak	2483.500	-42.13	≤-21.20	53.07	≤74	PASS
				Peak	2494.340	-41.18	≤-21.20	54.02	≤74	PASS
				Peak	2500.000	-46.99	≤-21.20	48.21	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.62	≤-41.20	45.58	≤54	PASS
				AV	2389.960	-49.25	≤-41.20	45.95	≤54	PASS
				AV	2390.000	-49.25	≤-41.20	45.95	≤54	PASS
				Peak	2310.000	-48.46	≤-21.20	46.74	≤74	PASS
				Peak	2384.500	-40.8	≤-21.20	54.40	≤74	PASS
				Peak	2390.000	-41.04	≤-21.20	54.16	≤74	PASS
		High	2462	AV	2483.500	-49.15	≤-41.20	46.05	≤54	PASS
				AV	2499.950	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2500.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2483.500	-49.97	≤-21.20	45.23	≤74	PASS
				Peak	2491.150	-40.32	≤-21.20	54.88	≤74	PASS

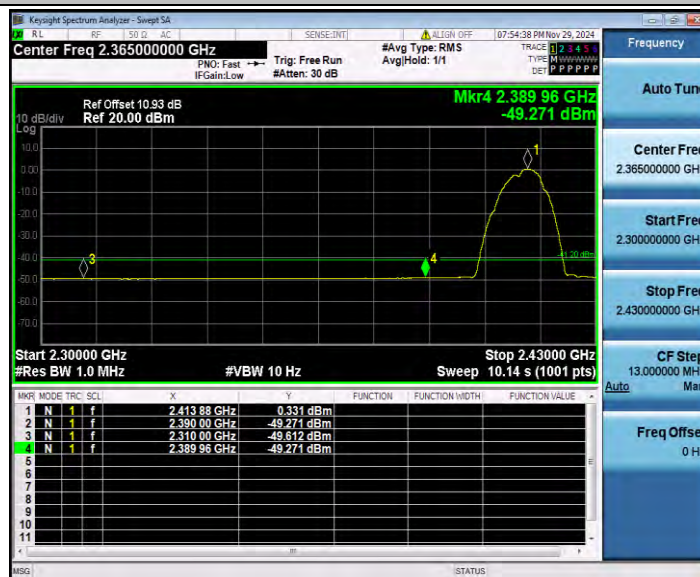
				Peak	2500.000	-48.18	≤ -21.20	47.02	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.63	≤ -41.20	45.57	≤ 54	PASS
				AV	2322.490	-48.39	≤ -41.20	46.81	≤ 54	PASS
				AV	2390.000	-49.23	≤ -41.20	45.97	≤ 54	PASS
				Peak	2310.000	-45.46	≤ -21.20	49.74	≤ 74	PASS
				Peak	2334.060	-41.16	≤ -21.20	54.04	≤ 74	PASS
				Peak	2390.000	-46.21	≤ -21.20	48.99	≤ 74	PASS
		High	2452	AV	2483.500	-49.17	≤ -41.20	46.03	≤ 54	PASS
				AV	2499.070	-49.02	≤ -41.20	46.18	≤ 54	PASS
				AV	2500.000	-49.05	≤ -41.20	46.15	≤ 54	PASS
				Peak	2483.500	-43.56	≤ -21.20	51.64	≤ 74	PASS
				Peak	2498.960	-40.73	≤ -21.20	54.47	≤ 74	PASS
				Peak	2500.000	-43.28	≤ -21.20	51.92	≤ 74	PASS

Note:

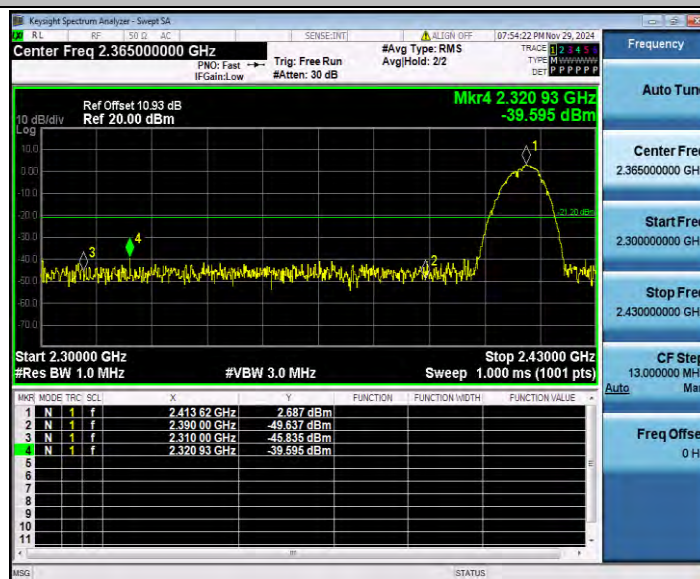
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

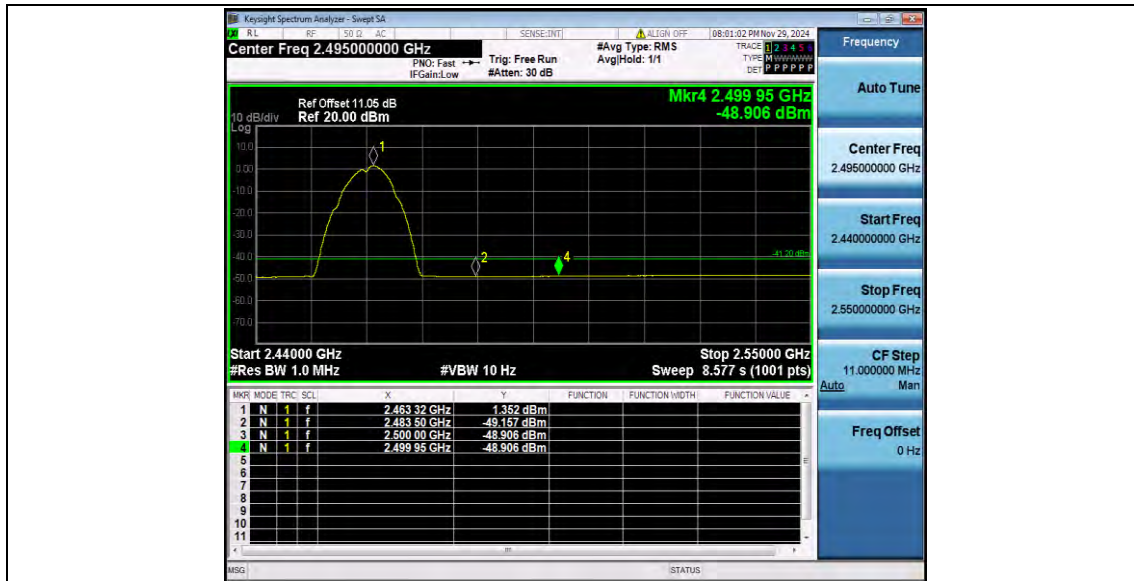
11B_Ant1_Low_2412_AV



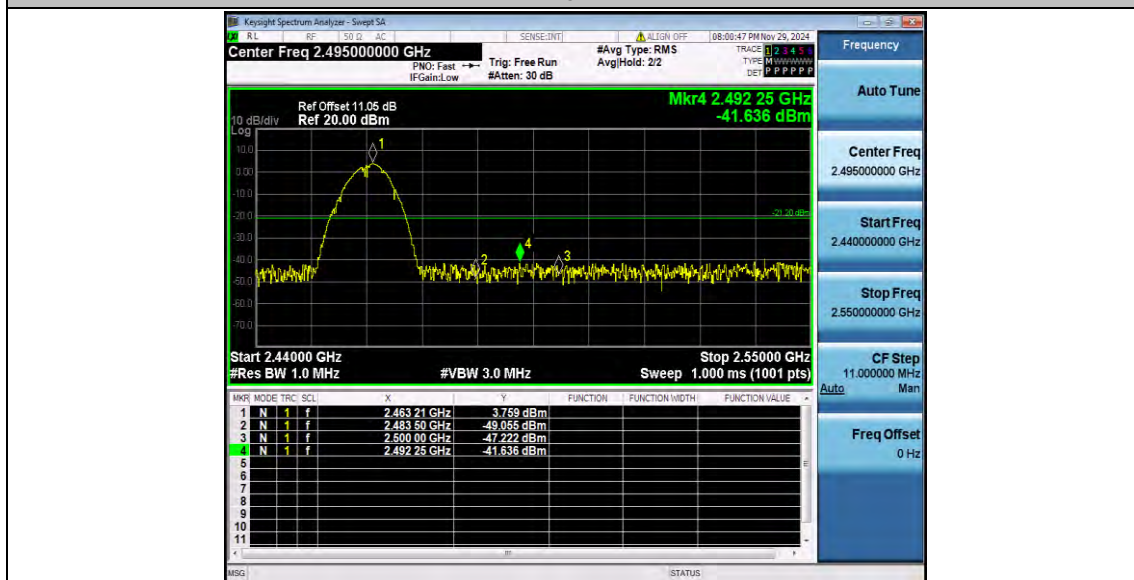
11B_Ant1_Low_2412_Peak



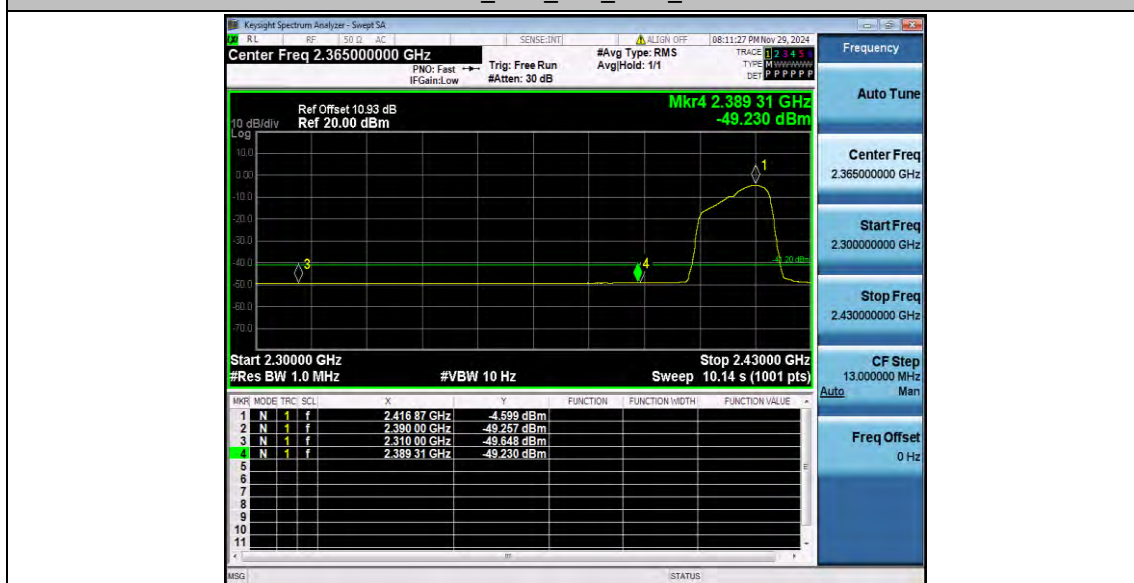
11B_Ant1_High_2462_AV



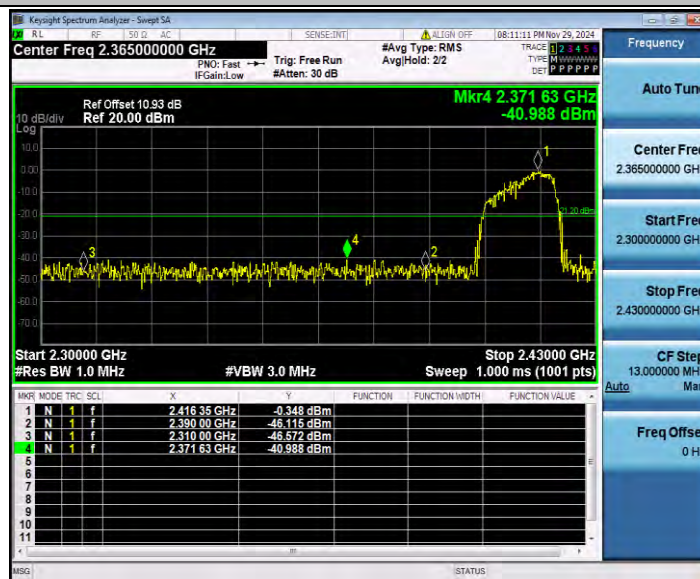
11B_Ant1_High_2462_Peak



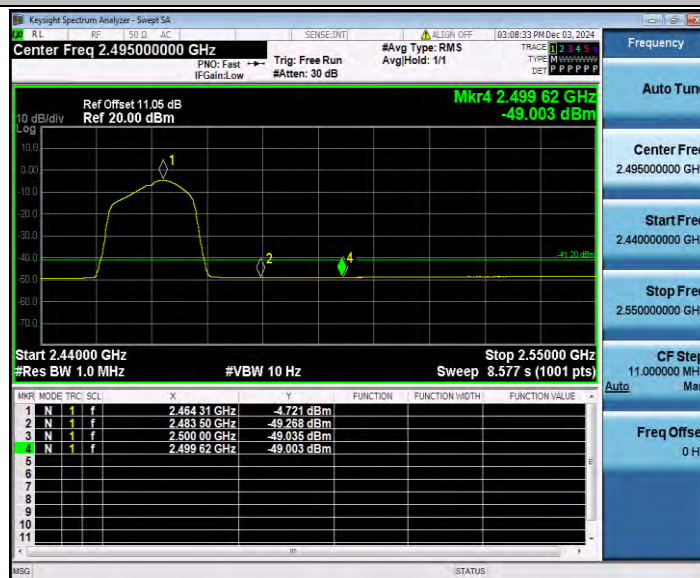
11G_Ant1_Low_2412_AV



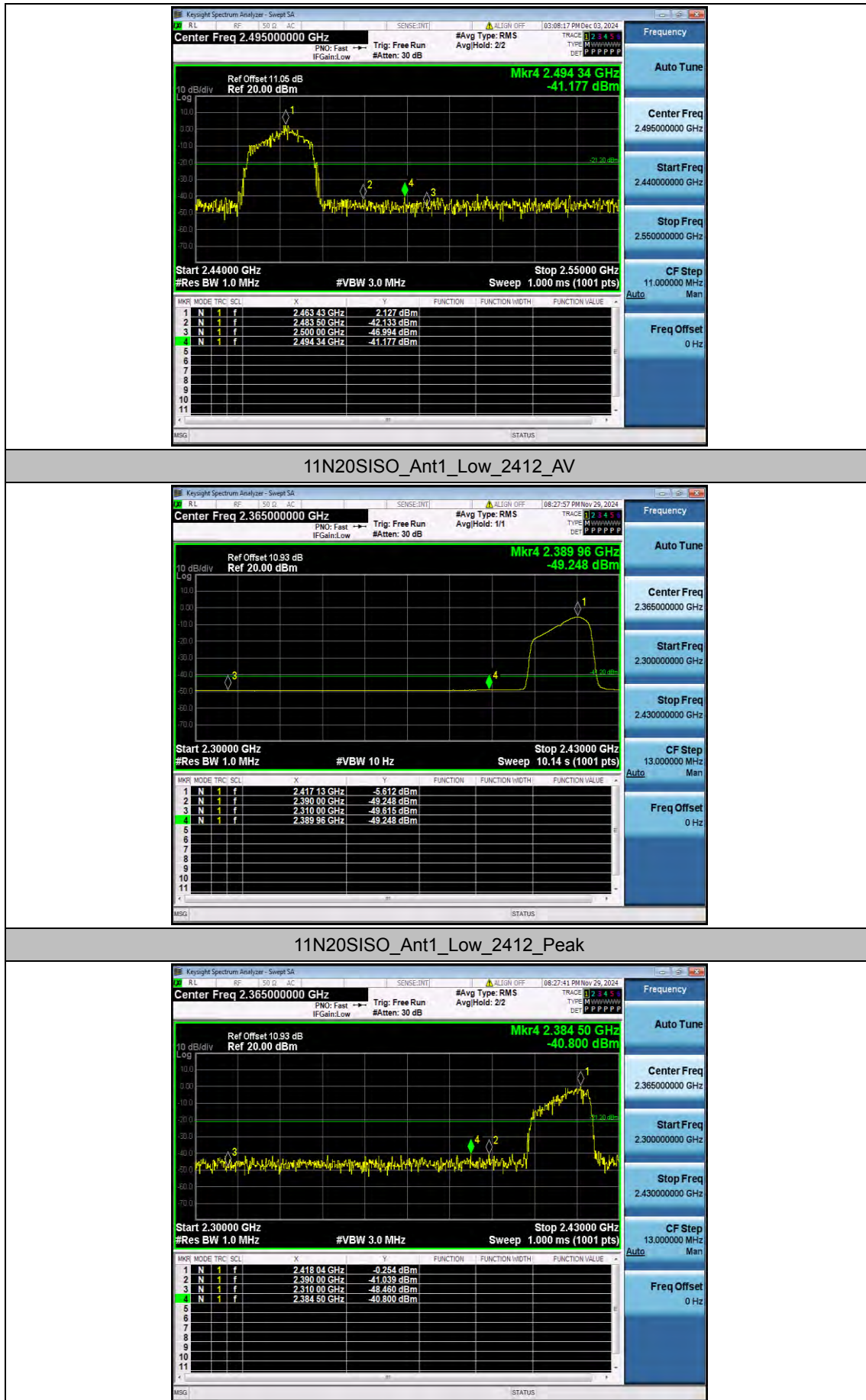
11G_Ant1_Low_2412_Peak



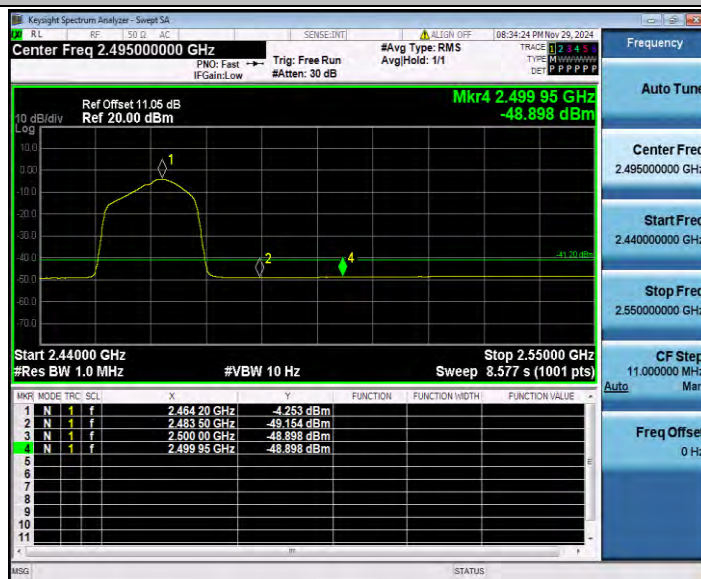
11G_Ant1_High_2462_AV



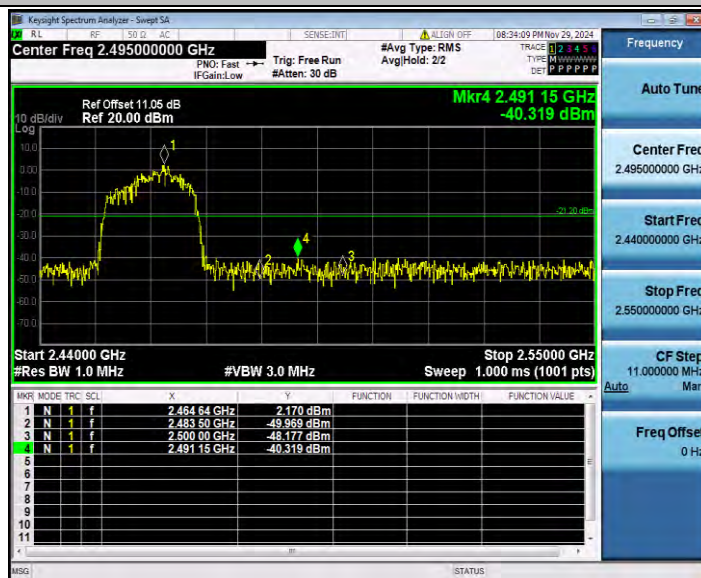
11G_Ant1_High_2462_Peak



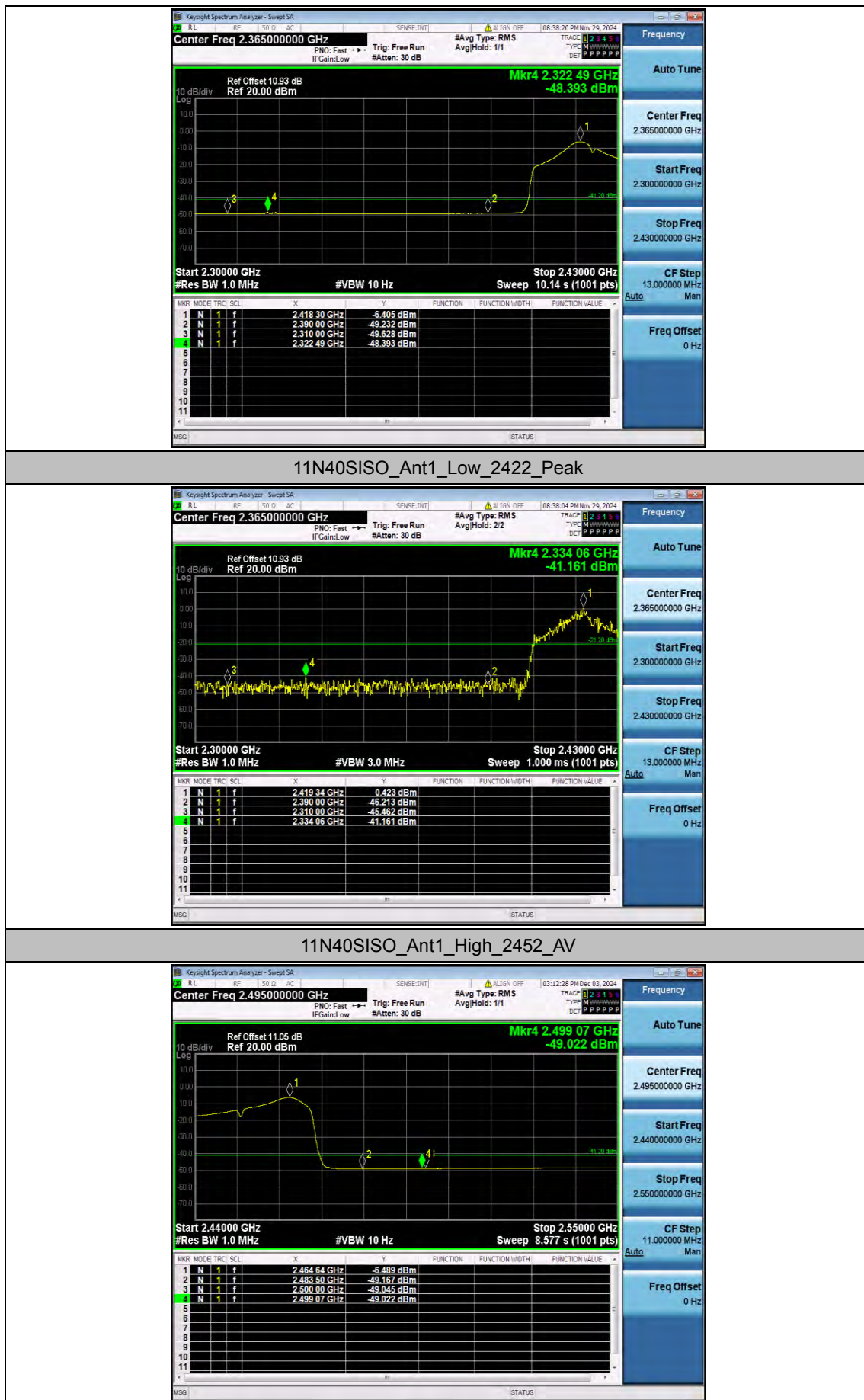
11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_High_2452_Peak

