

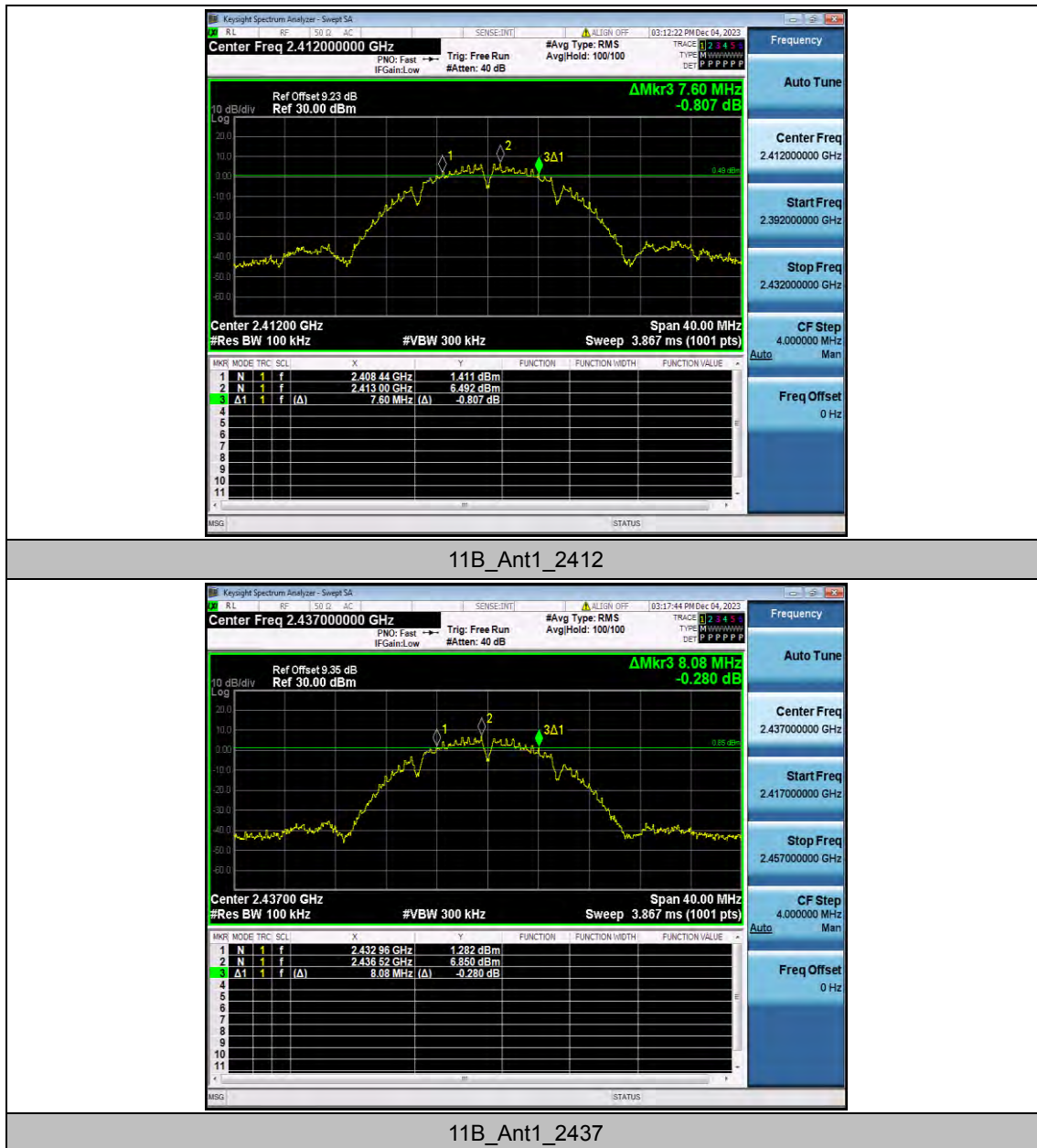
Case No. : <u>GTS20231018011-1-17</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.12.4</u>	Test Engineer: <u>Evan ouyang</u>

Appendix C.1: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.600	2408.440	2416.040	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.080	2458.440	2466.520	0.5	PASS
11G	Ant1	2412	16.200	2403.960	2420.160	0.5	PASS
		2437	15.280	2429.240	2444.520	0.5	PASS
		2462	15.720	2454.440	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.640	2404.120	2420.760	0.5	PASS
		2437	15.440	2429.120	2444.560	0.5	PASS
		2462	12.520	2457.000	2469.520	0.5	PASS
11N40SISO	Ant1	2422	23.840	2414.480	2438.320	0.5	PASS
		2437	32.560	2422.040	2454.600	0.5	PASS
		2452	35.680	2433.840	2469.520	0.5	PASS

Test Graphs

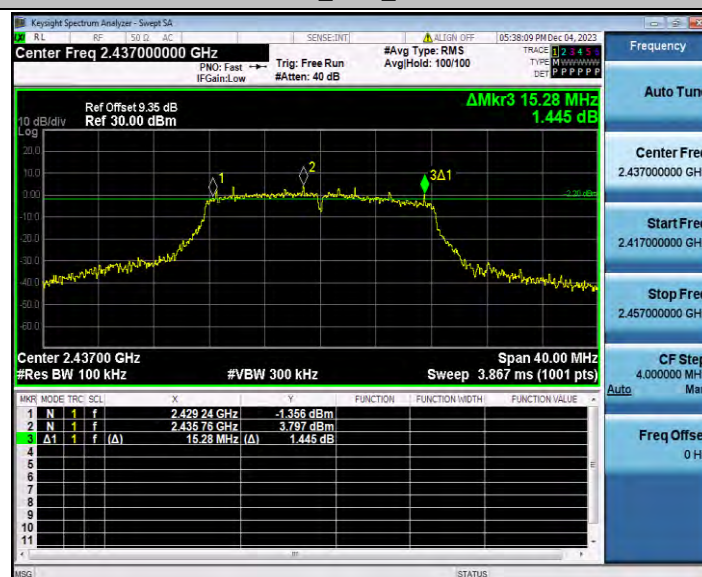




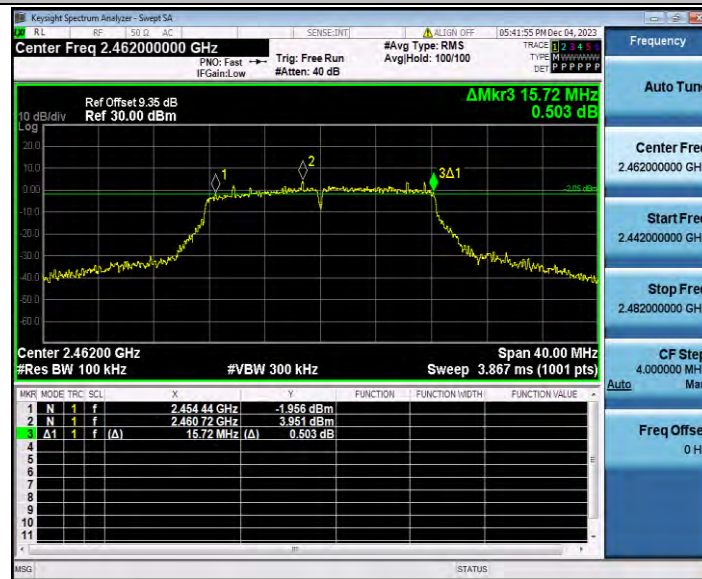
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437

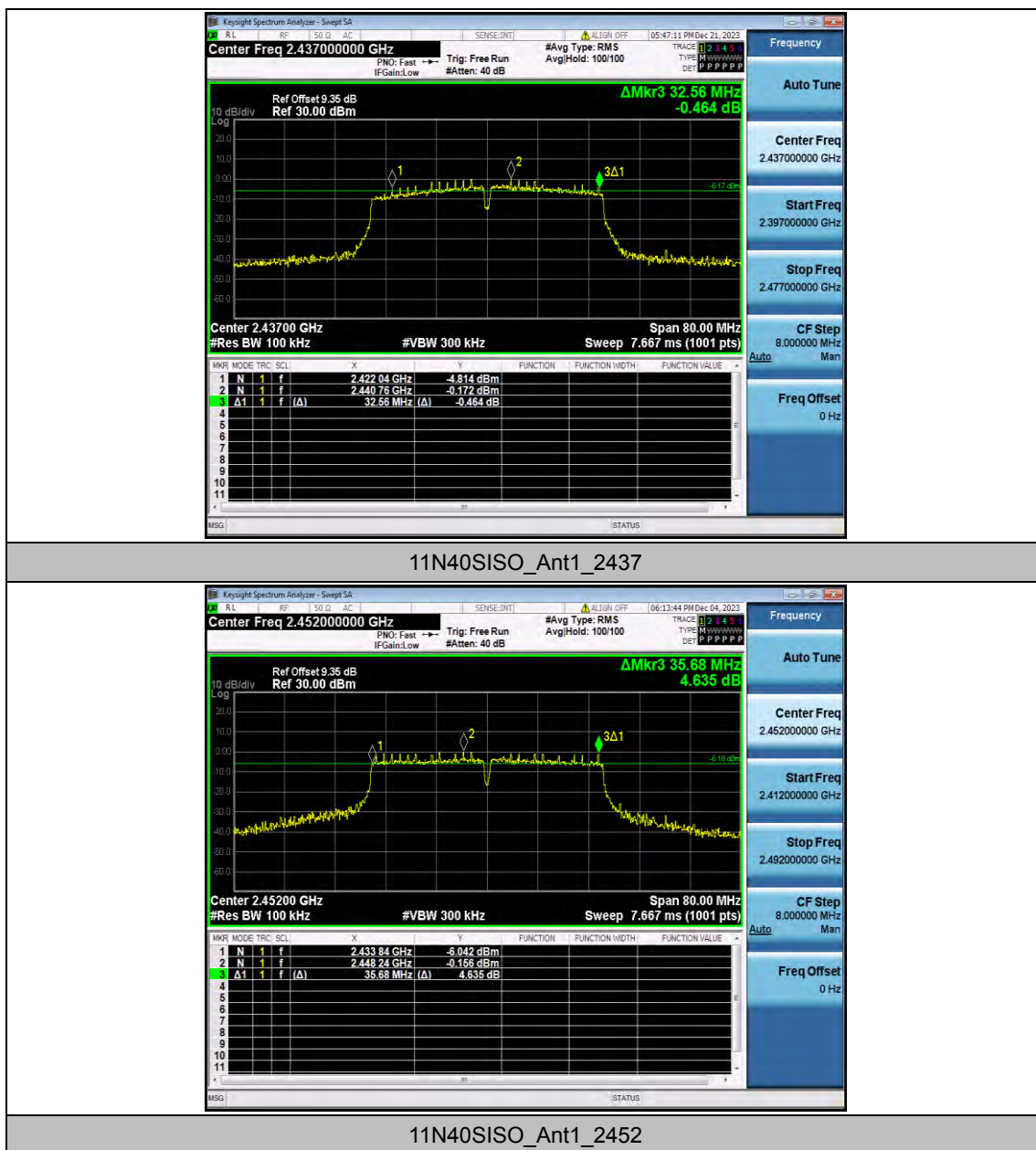


11G_Ant1_2462



11N20SISO_Ant1_2412



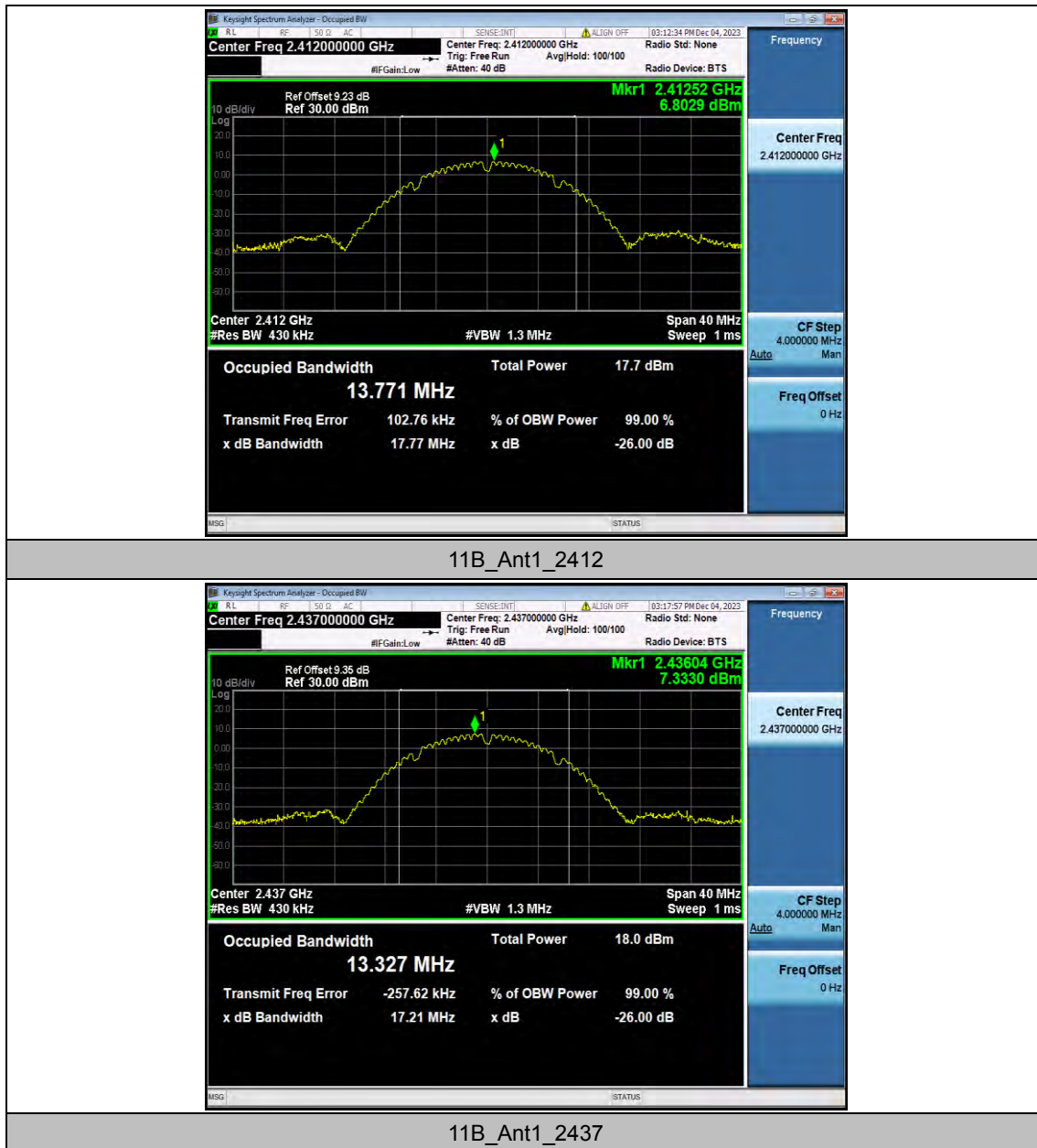


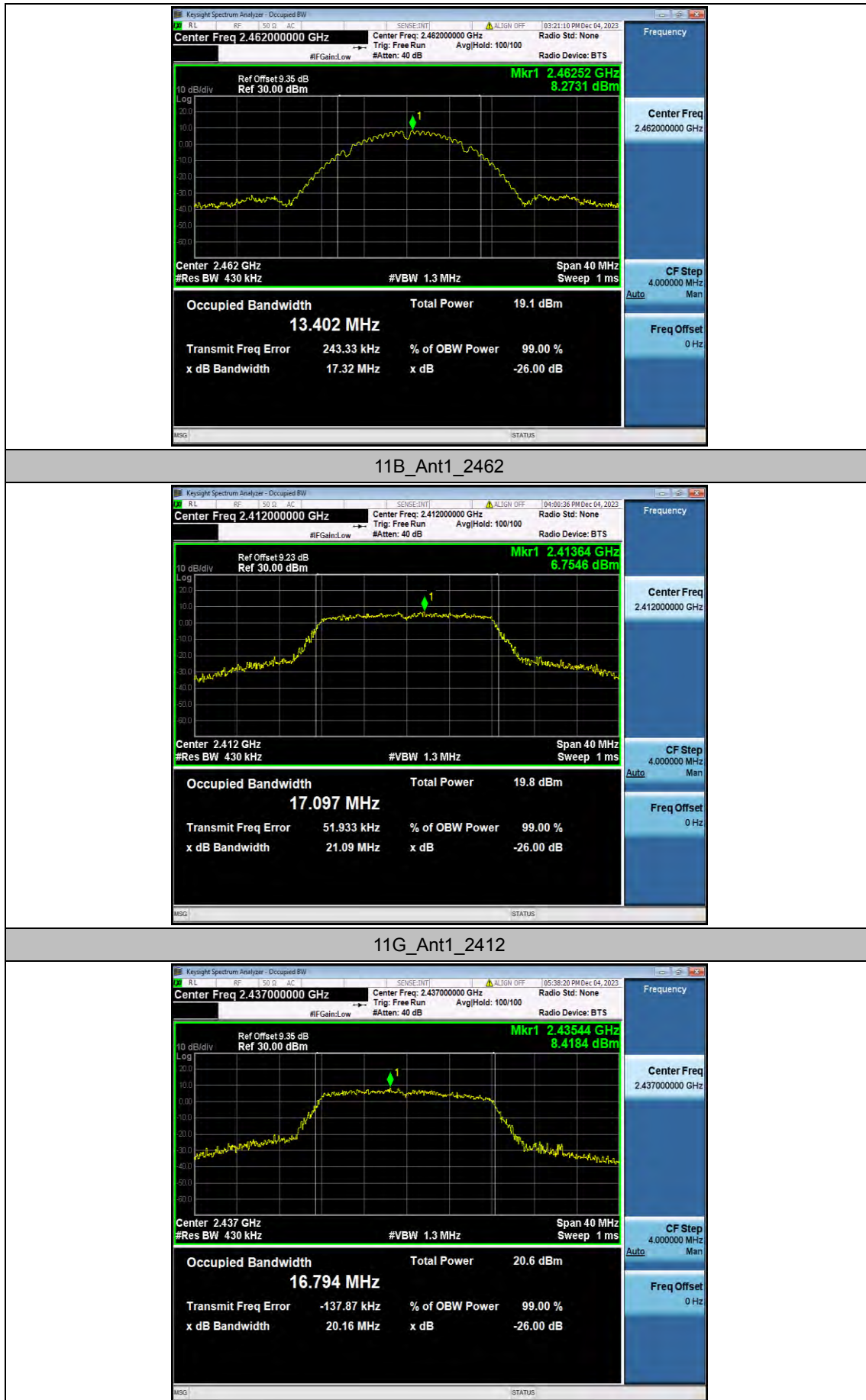
Appendix C.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.771	2405.217	2418.988	---	---
		2437	13.327	2430.079	2443.406	---	---
		2462	13.402	2455.542	2468.944	---	---
11G	Ant1	2412	17.097	2403.503	2420.600	---	---
		2437	16.794	2428.465	2445.259	---	---
		2462	16.884	2453.708	2470.592	---	---
11N20SISO	Ant1	2412	18.034	2403.043	2421.077	---	---
		2437	17.761	2428.008	2445.769	---	---
		2462	17.807	2453.246	2471.053	---	---
11N40SISO	Ant1	2422	35.896	2404.124	2440.020	---	---
		2437	36.059	2419.165	2455.224	---	---
		2452	36.764	2433.609	2470.373	---	---

Test Graphs

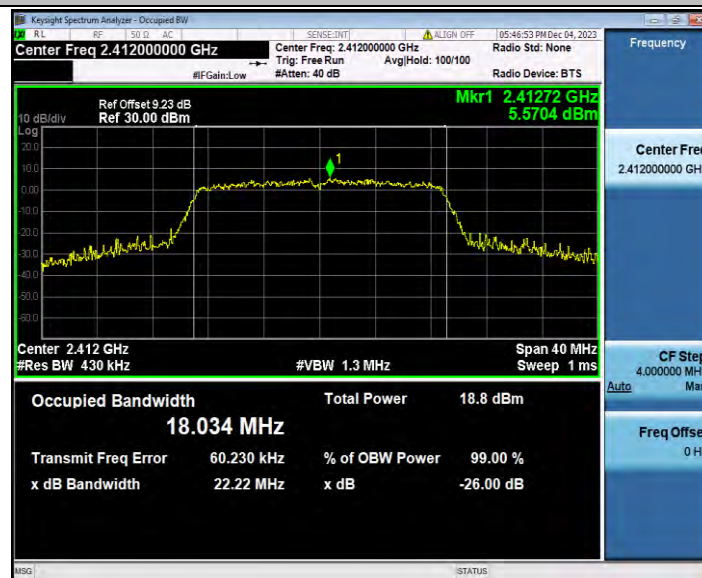




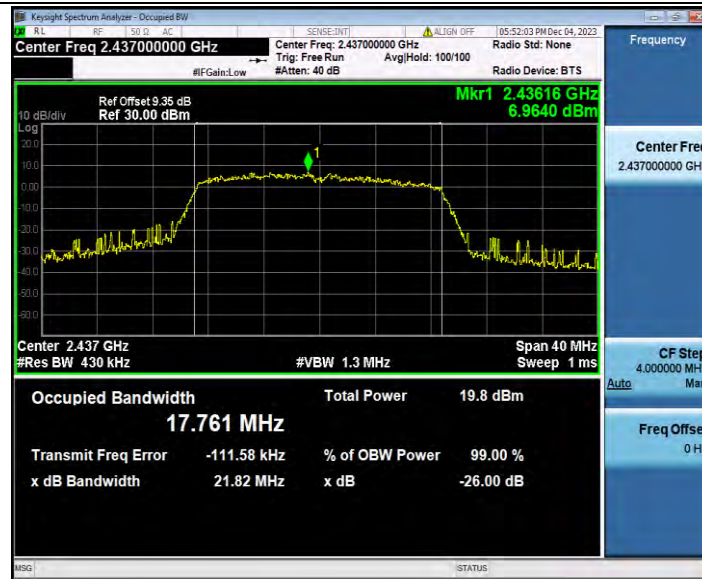
11G_Ant1_2437



11G_Ant1_2462



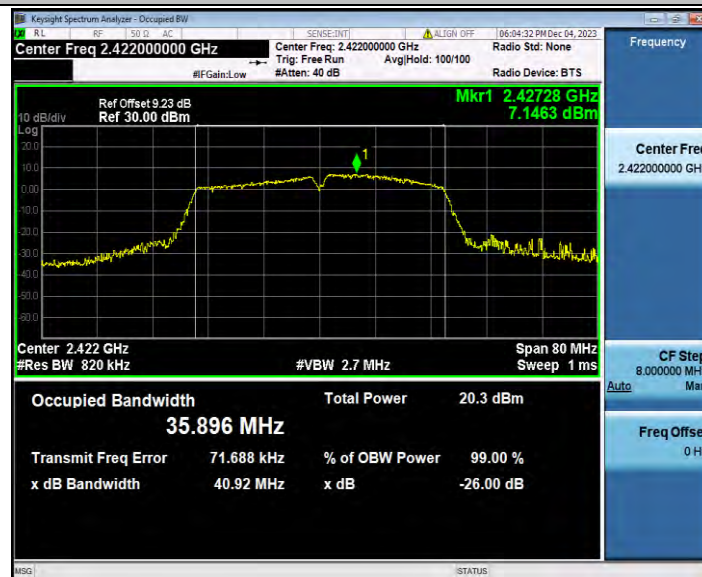
11N20SISO_Ant1_2412



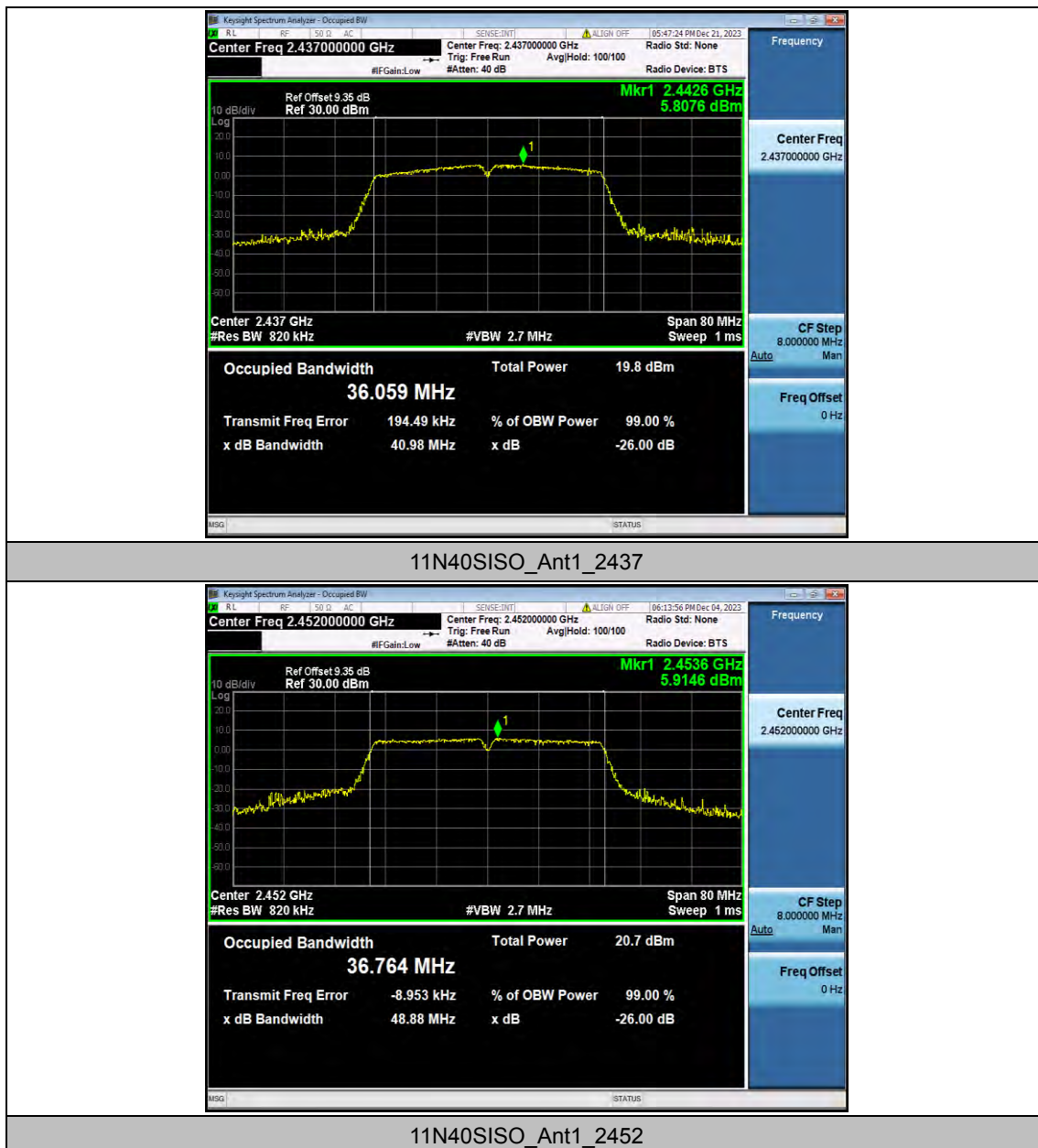
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



Appendix C.3: Maximum conducted output power

Test Result Peak

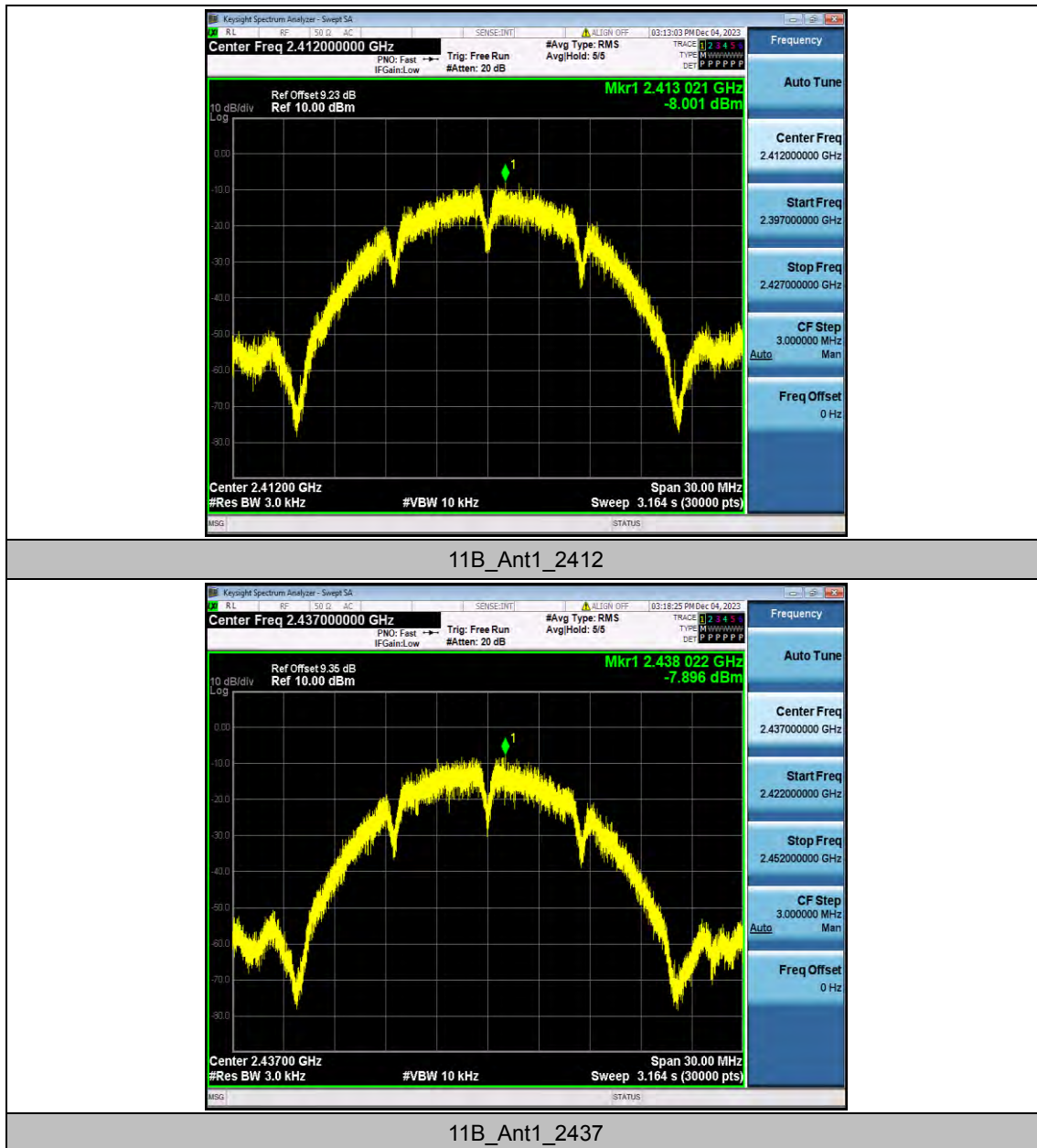
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	17.76	≤30.00	PASS
		2437	18.07	≤30.00	PASS
		2462	19.11	≤30.00	PASS
11G	Ant1	2412	20.90	≤30.00	PASS
		2437	21.82	≤30.00	PASS
		2462	22.15	≤30.00	PASS
11N20SISO	Ant1	2412	20.19	≤30.00	PASS
		2437	21.11	≤30.00	PASS
		2462	20.88	≤30.00	PASS
11N40SISO	Ant1	2422	20.54	≤30.00	PASS
		2437	20.59	≤30.00	PASS
		2452	20.99	≤30.00	PASS

Appendix C.4: Maximum power spectral density

Test Result

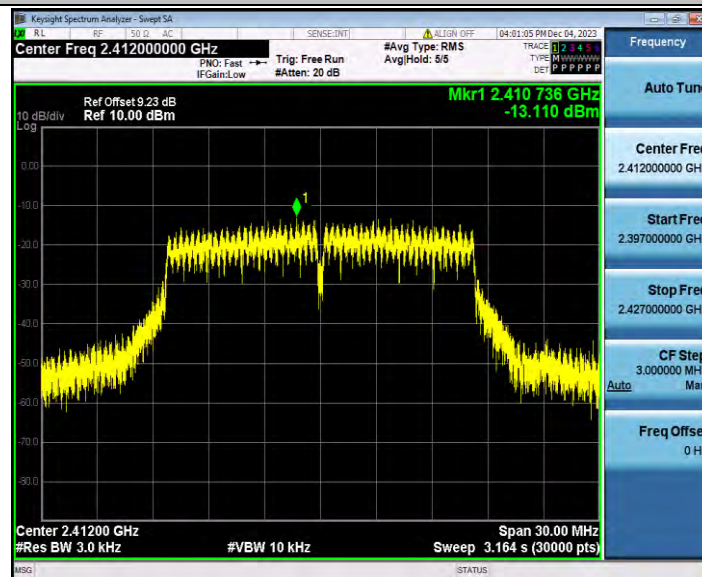
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8	≤8.00	PASS
		2437	-7.9	≤8.00	PASS
		2462	-6.7	≤8.00	PASS
11G	Ant1	2412	-13.11	≤8.00	PASS
		2437	-10.01	≤8.00	PASS
		2462	-10.93	≤8.00	PASS
11N20SISO	Ant1	2412	-14.05	≤8.00	PASS
		2437	-11.18	≤8.00	PASS
		2462	-13.29	≤8.00	PASS
11N40SISO	Ant1	2422	-13.35	≤8.00	PASS
		2437	-14.55	≤8.00	PASS
		2452	-14.95	≤8.00	PASS

Test Graphs

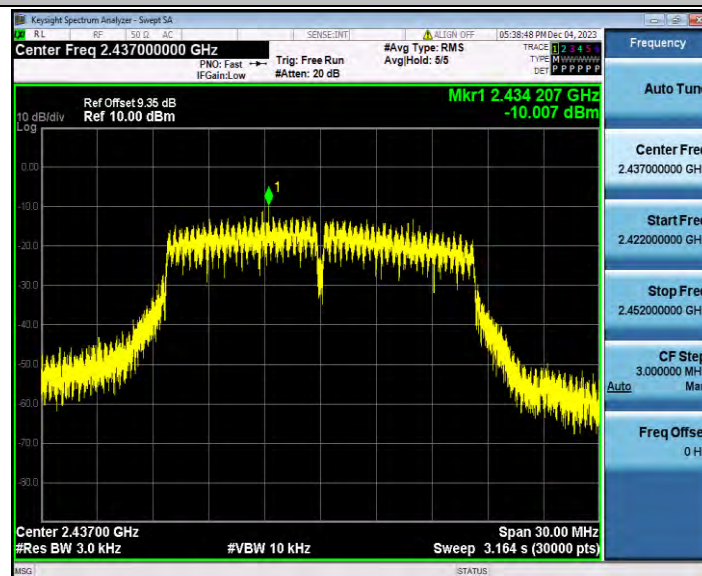




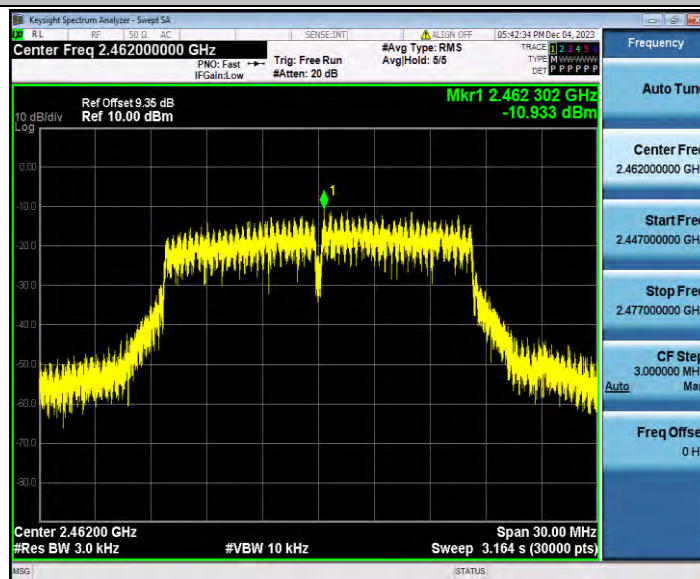
11B_Ant1_2462



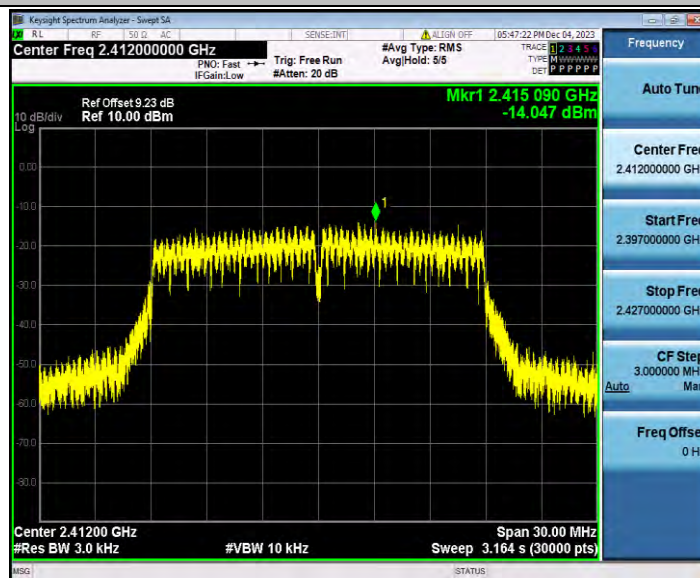
11G_Ant1_2412



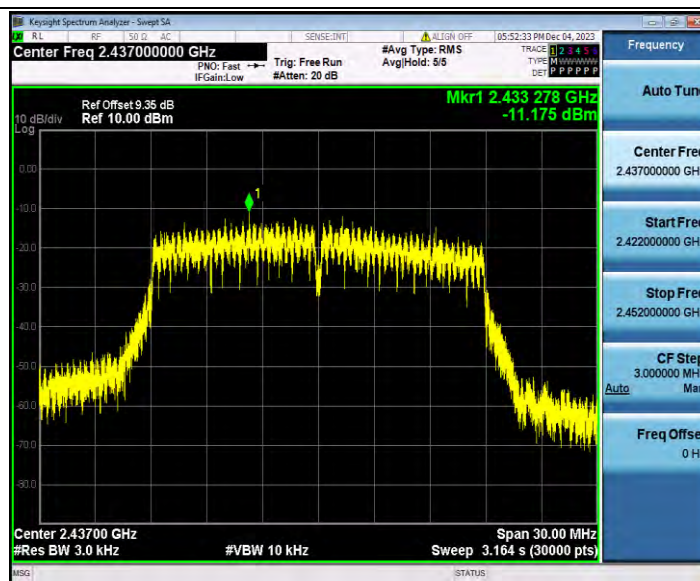
11G_Ant1_2437



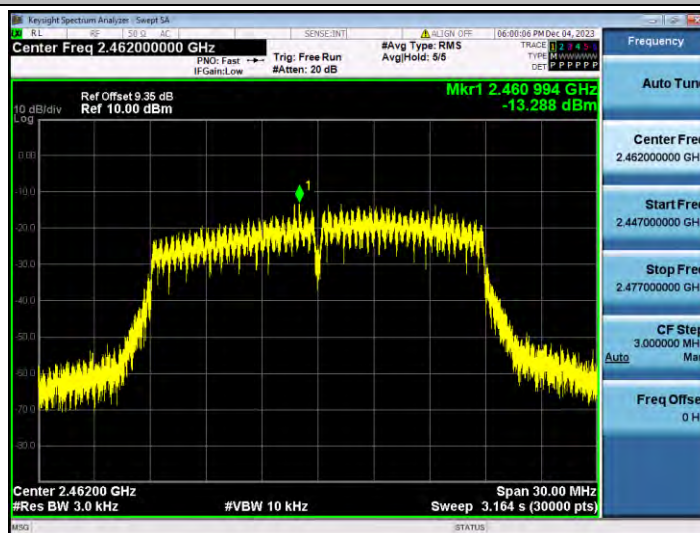
11G_Ant1_2462



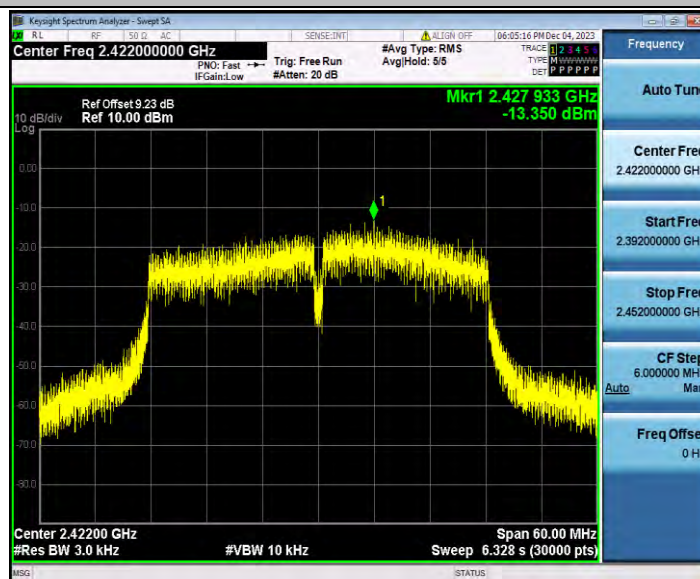
11N20SISO_Ant1_2412



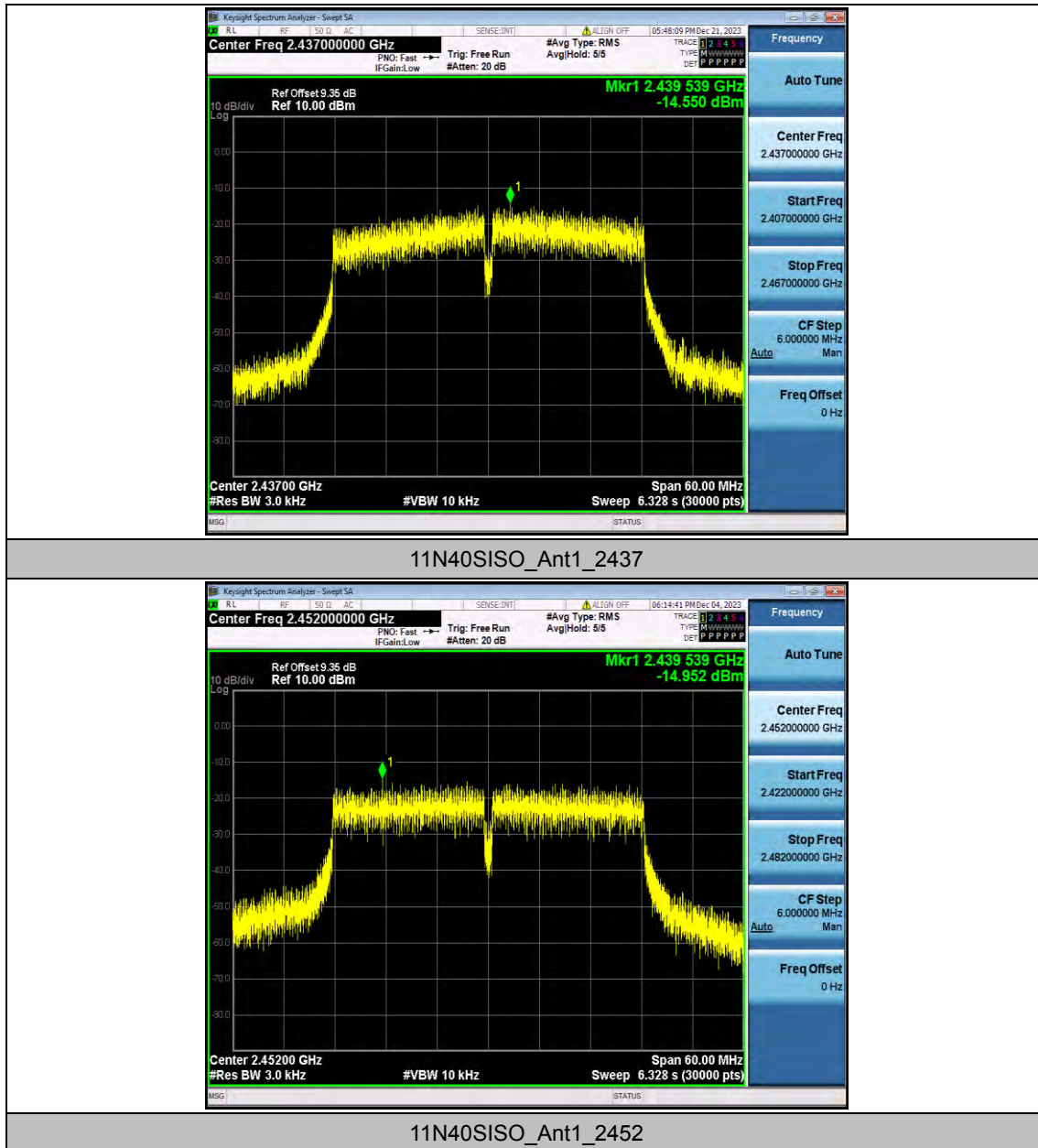
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

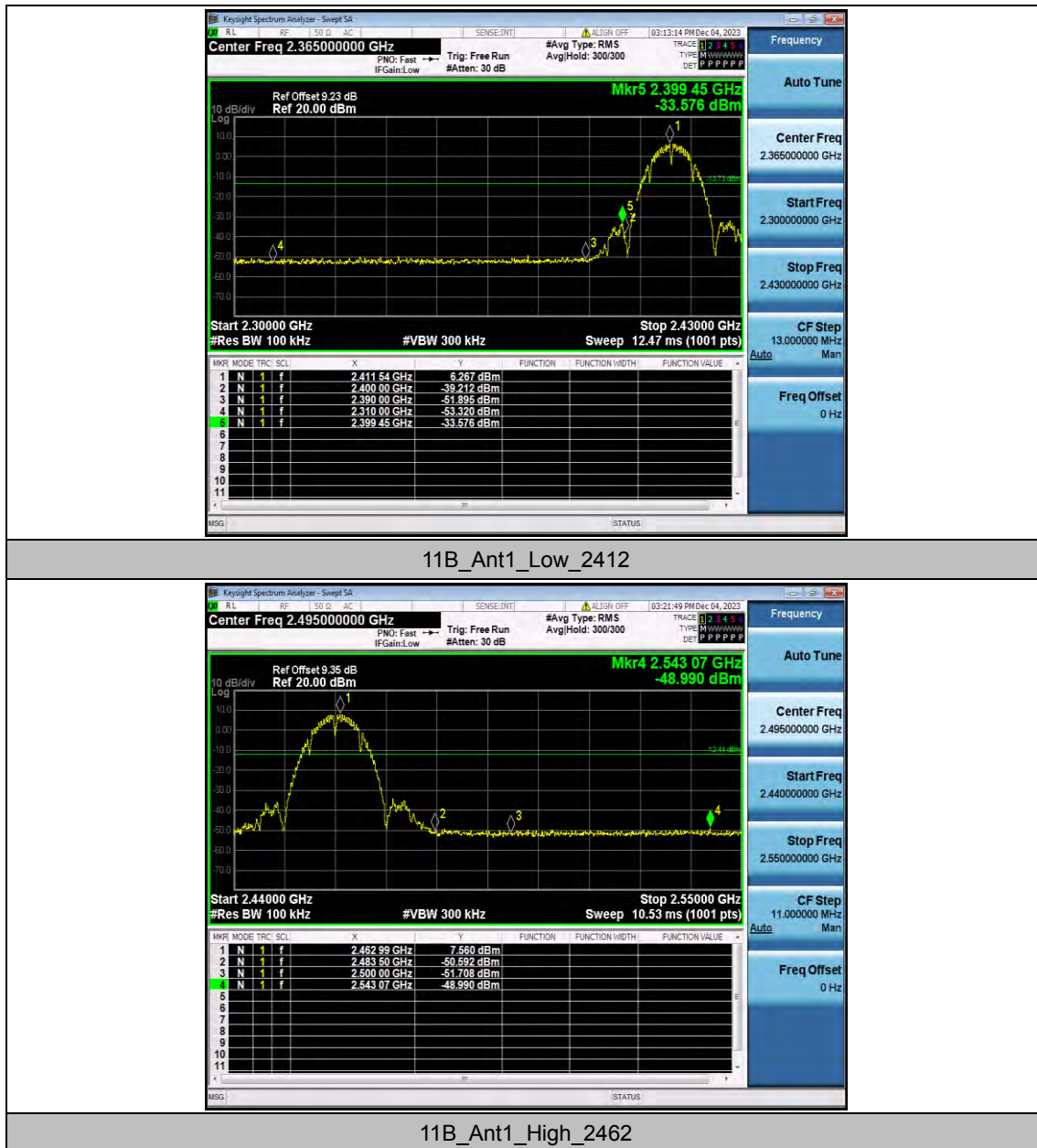


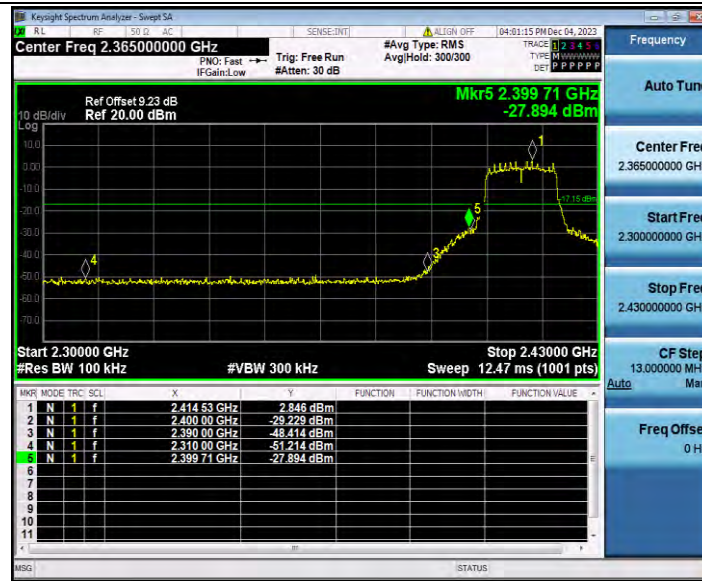
Appendix C.5: Band edge measurements

Test Result

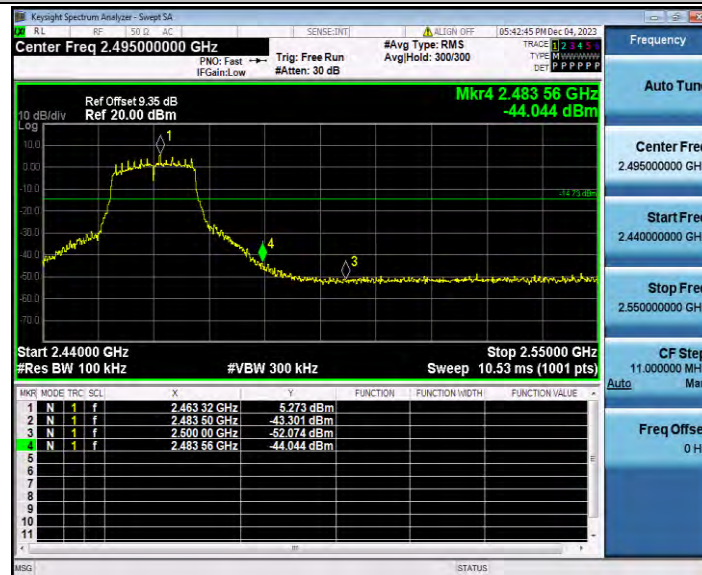
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.27	-33.58	≤ -13.73	PASS
		High	2462	7.56	-48.99	≤ -12.44	PASS
11G	Ant1	Low	2412	2.85	-27.89	≤ -17.15	PASS
		High	2462	5.27	-44.04	≤ -14.73	PASS
11N20SISO	Ant1	Low	2412	1.76	-29.91	≤ -18.24	PASS
		High	2462	2.65	-47.14	≤ -17.35	PASS
11N40SISO	Ant1	Low	2422	1.58	-33.48	≤ -18.42	PASS
		High	2452	0.11	-36.86	≤ -19.89	PASS

Test Graphs





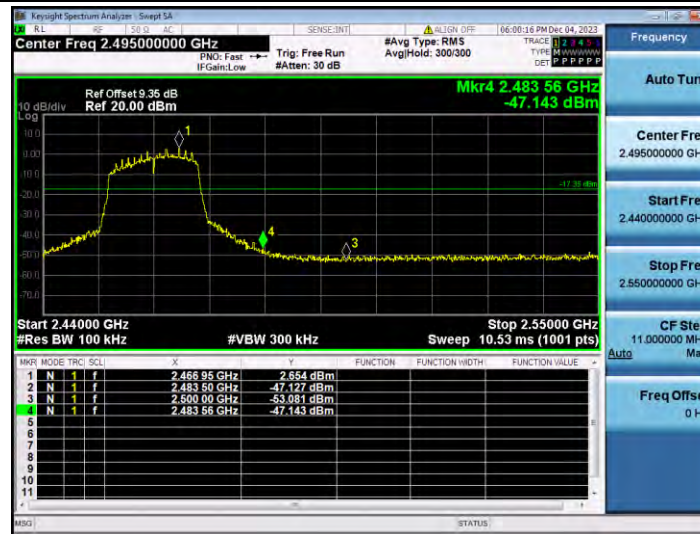
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



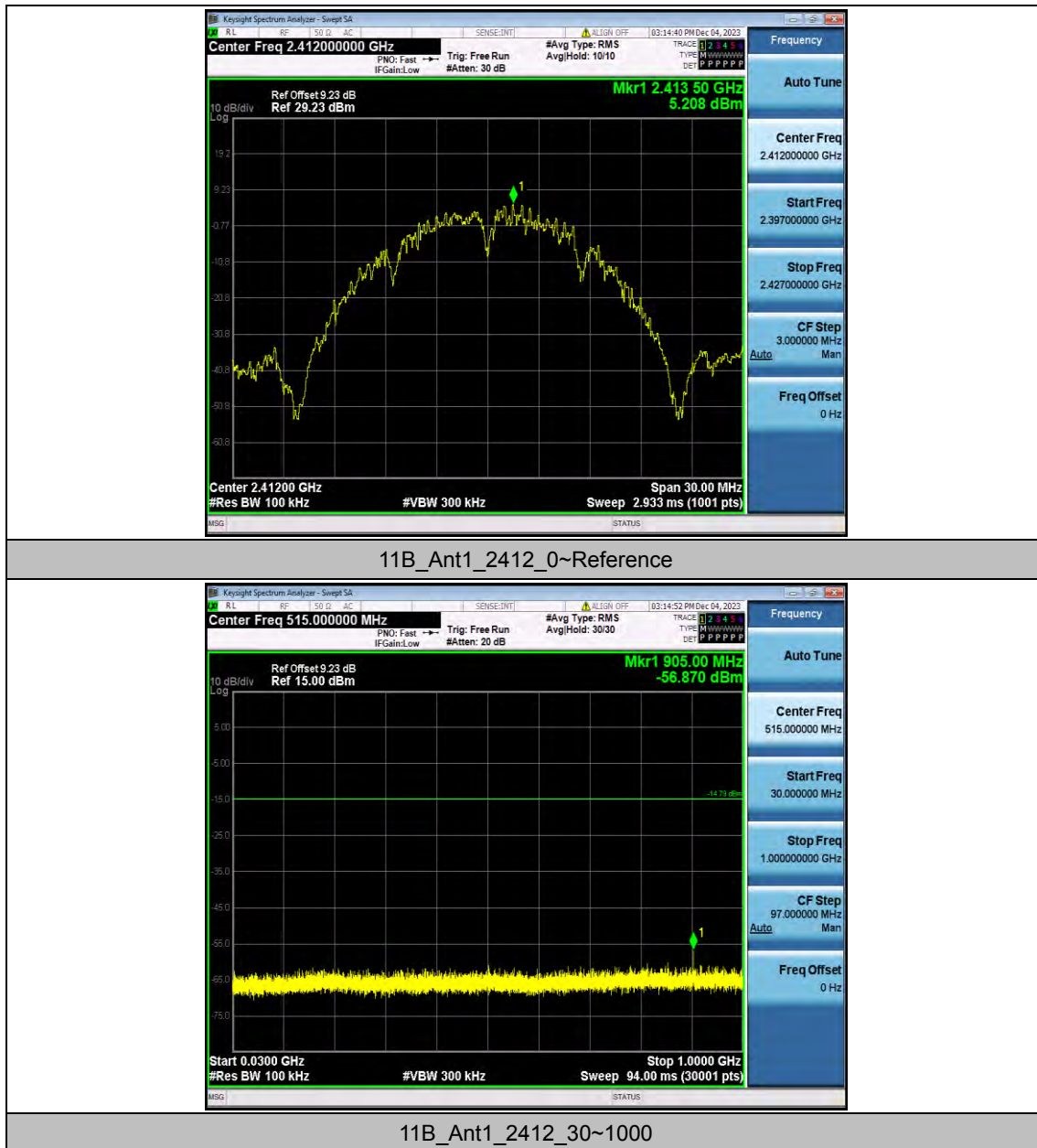
11N40SISO_Ant1_High_2452

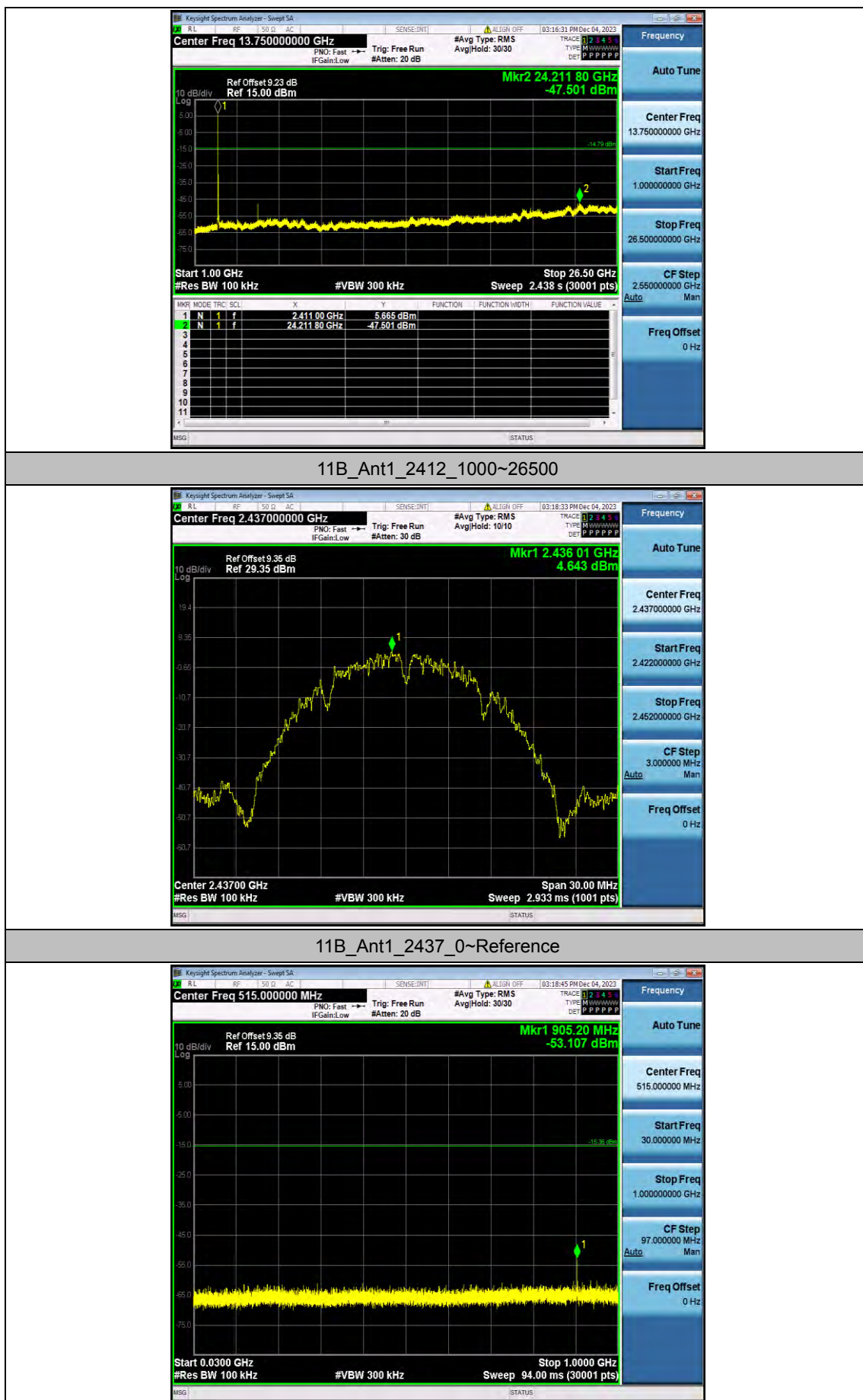
Appendix C.6: Conducted Spurious Emission

Test Result

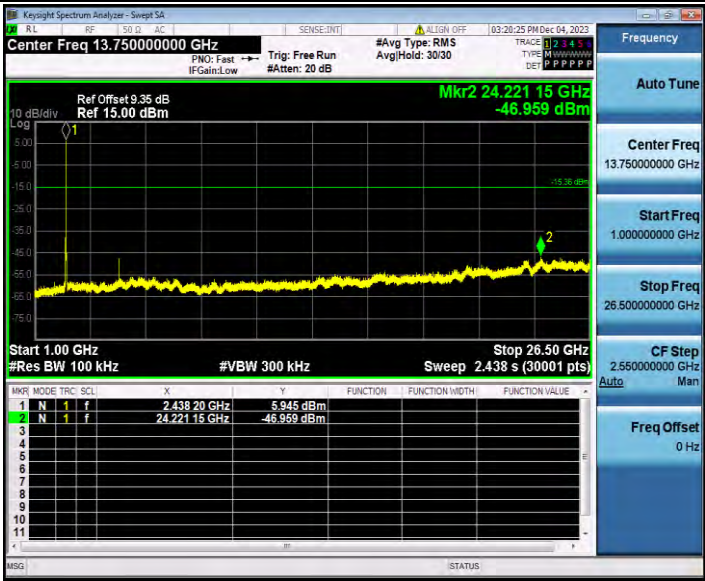
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.21	5.21	---	PASS
			30~1000	5.21	-56.87	≤ -14.79	PASS
			1000~26500	5.21	-47.5	≤ -14.79	PASS
		2437	Reference	4.64	4.64	---	PASS
			30~1000	4.64	-53.11	≤ -15.36	PASS
			1000~26500	4.64	-46.96	≤ -15.36	PASS
		2462	Reference	6.26	6.26	---	PASS
			30~1000	6.26	-60.25	≤ -13.74	PASS
			1000~26500	6.26	-47.25	≤ -13.74	PASS
11G	Ant1	2412	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-49.91	≤ -18.86	PASS
			1000~26500	1.14	-47.71	≤ -18.86	PASS
		2437	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-60.15	≤ -19.32	PASS
			1000~26500	0.68	-47.51	≤ -19.32	PASS
		2462	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-59.53	≤ -19.38	PASS
			1000~26500	0.62	-46.91	≤ -19.38	PASS
11N20SISO	Ant1	2412	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-60.32	≤ -20.77	PASS
			1000~26500	-0.77	-47.59	≤ -20.77	PASS
		2437	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-60.38	≤ -18.87	PASS
			1000~26500	1.13	-47.42	≤ -18.87	PASS
		2462	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-57.46	≤ -18.73	PASS
			1000~26500	1.27	-46.73	≤ -18.73	PASS
11N40SISO	Ant1	2422	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-55.82	≤ -18.49	PASS
			1000~26500	1.51	-47.78	≤ -18.49	PASS
		2437	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-59.21	≤ -20.33	PASS
			1000~26500	-0.33	-47.65	≤ -20.33	PASS
		2452	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-50.99	≤ -21.19	PASS

Test Graphs





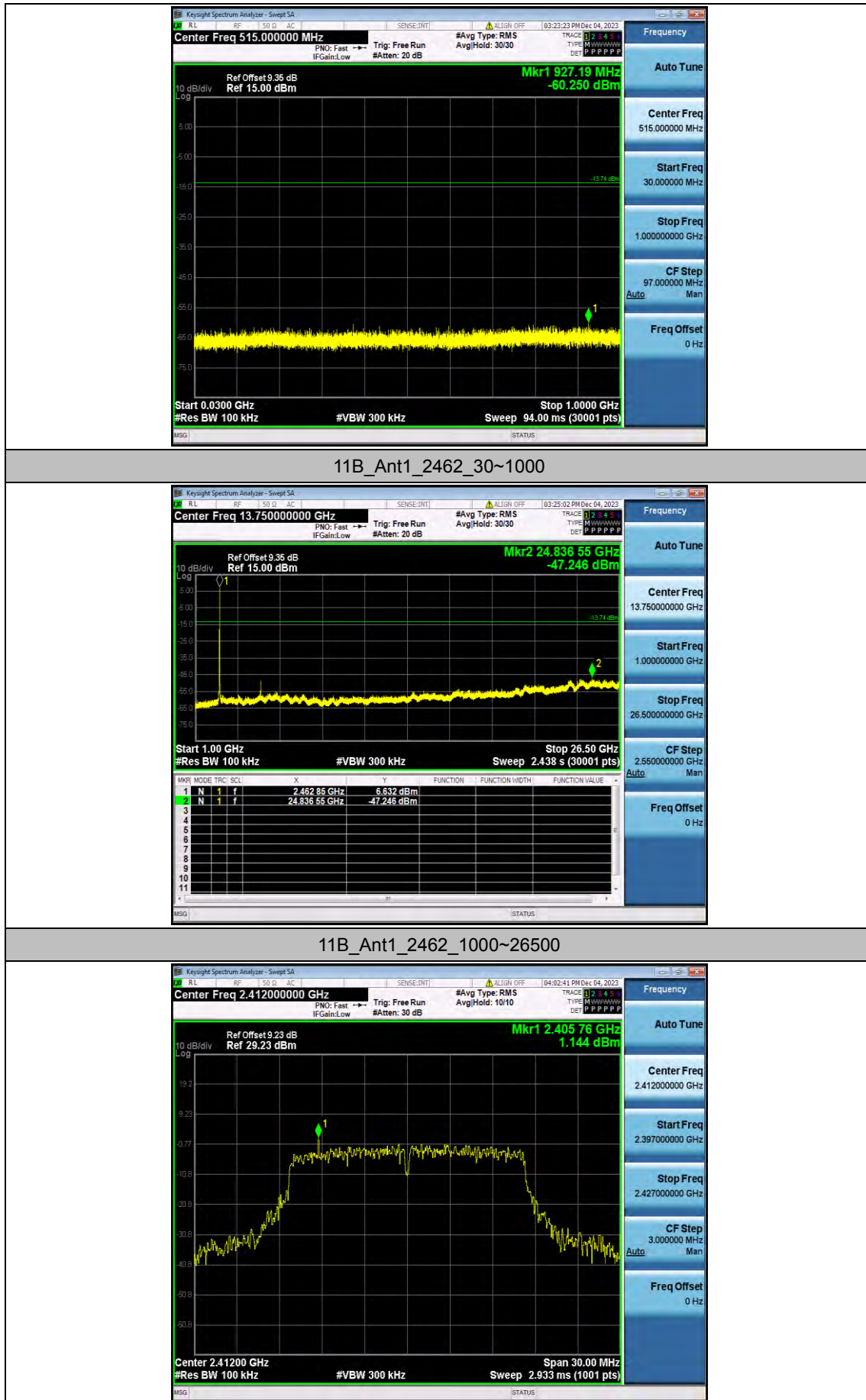
11B_Ant1_2437_30~1000

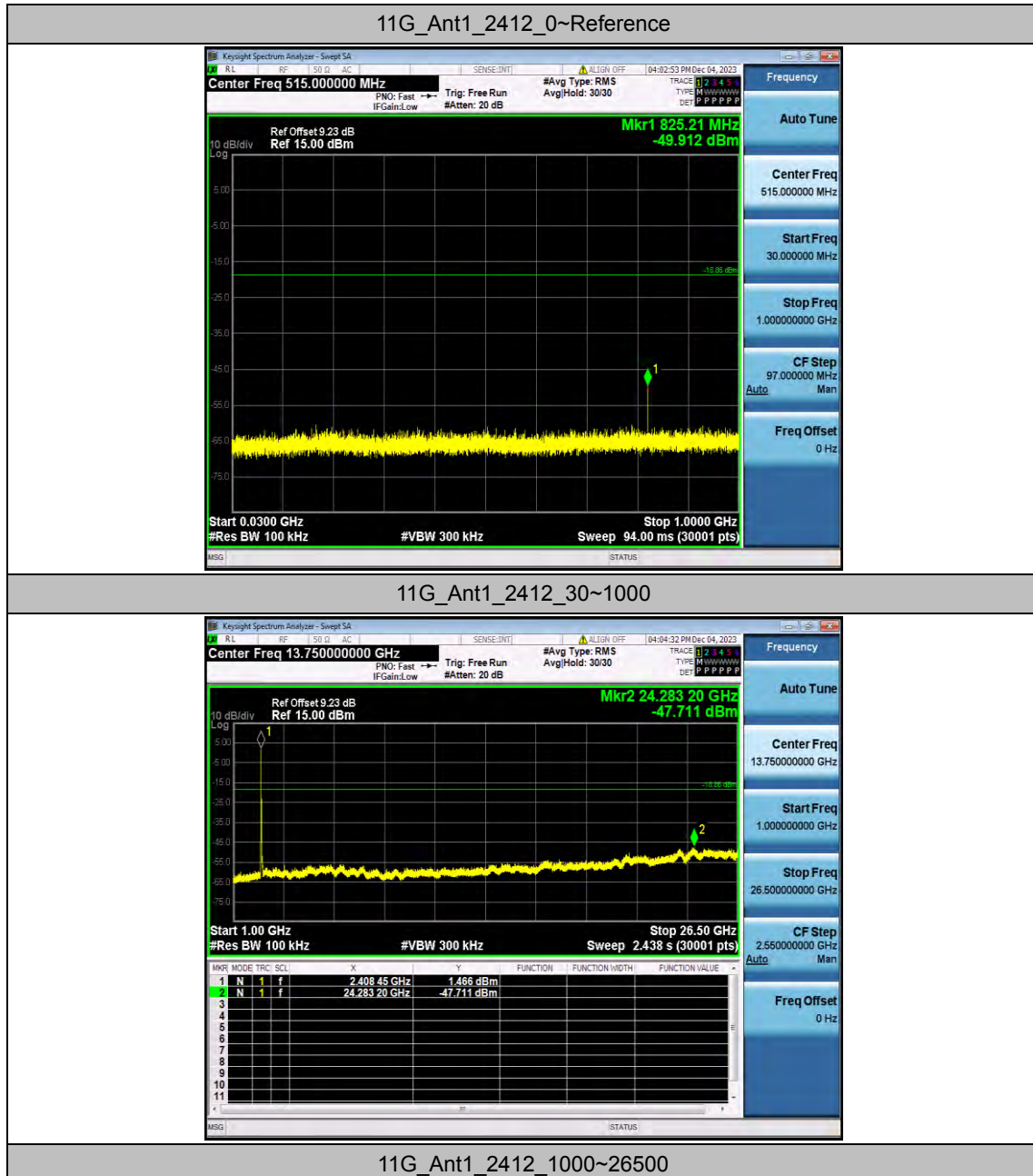


11B_Ant1_2437_1000~26500

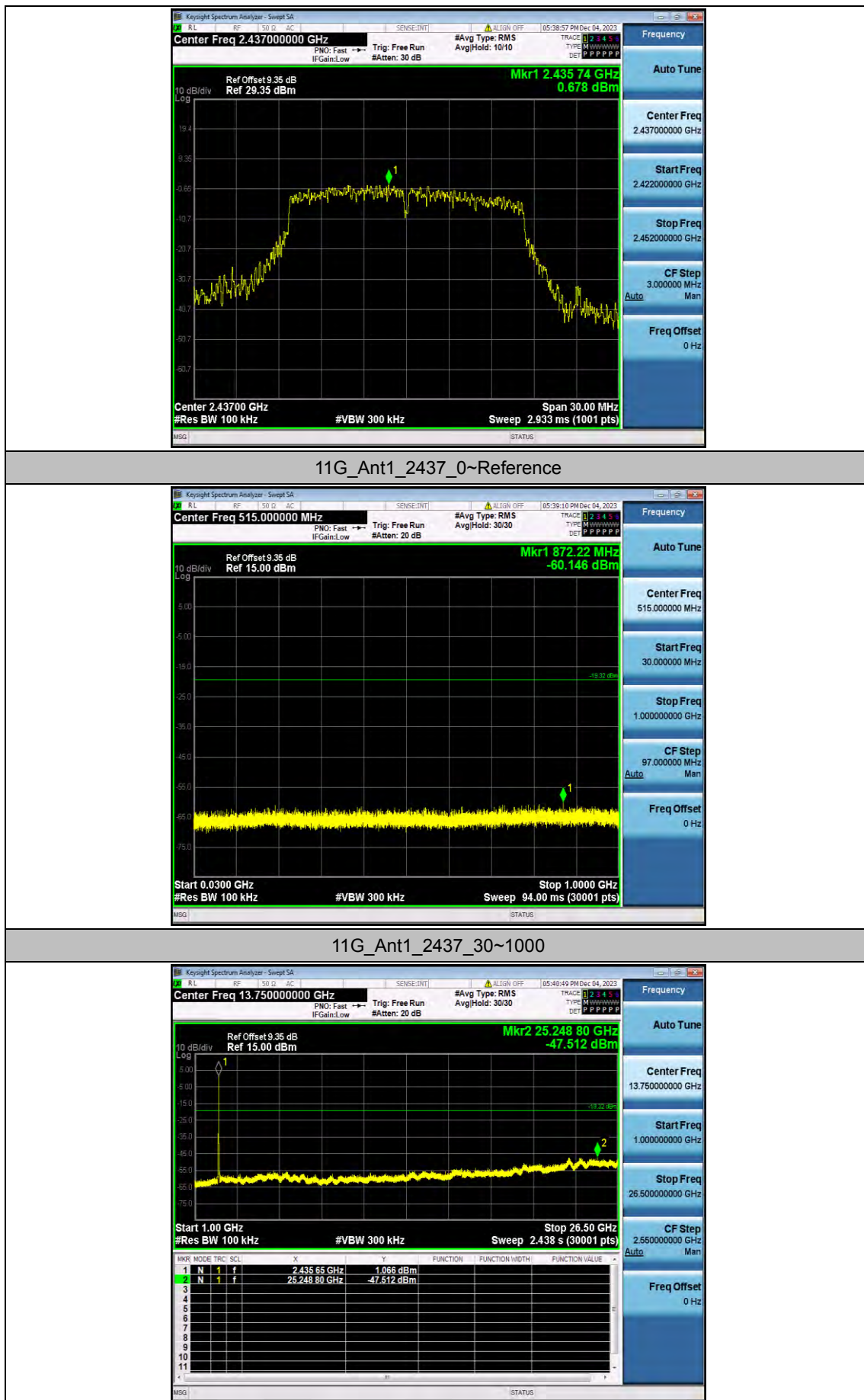


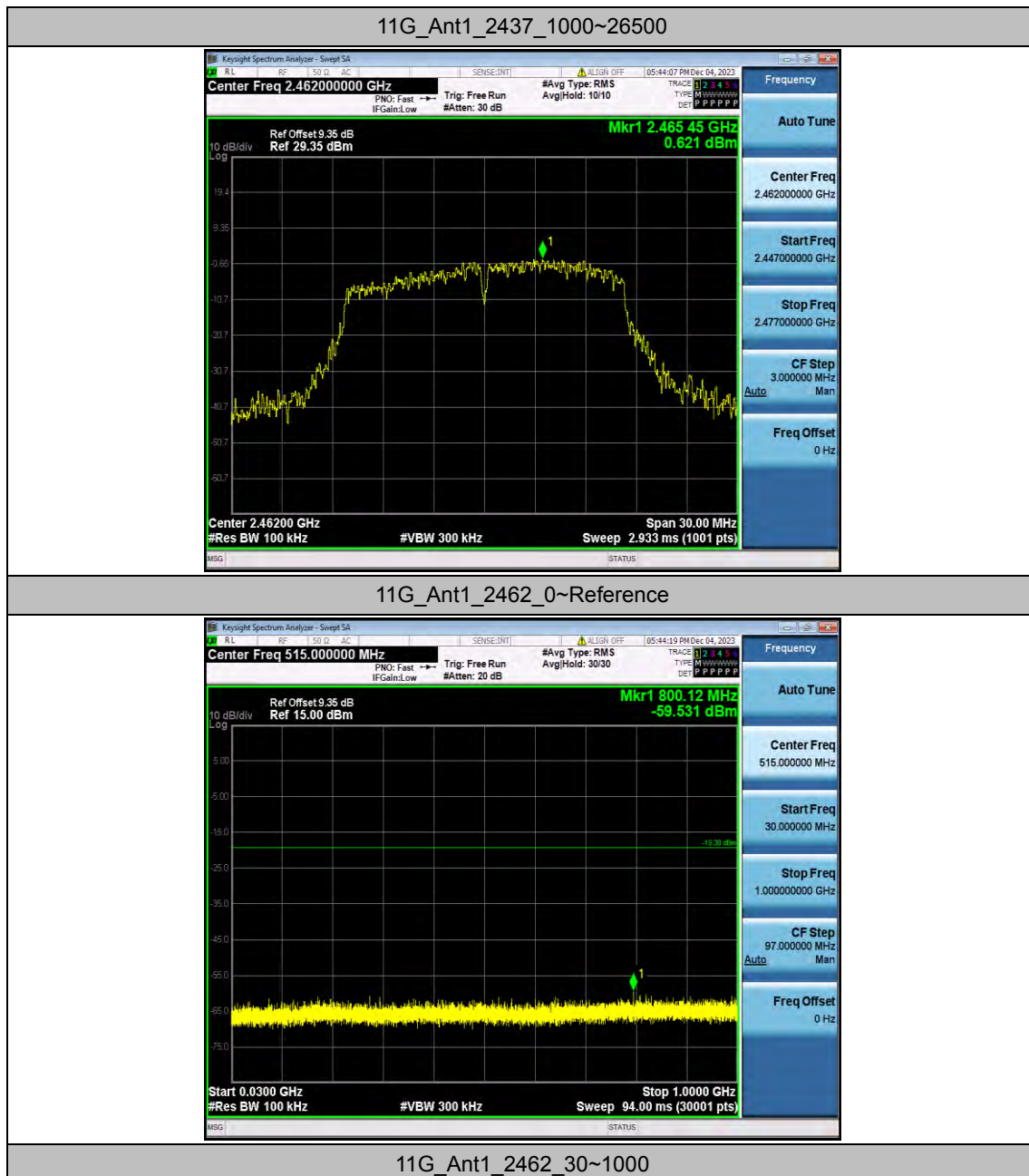
11B_Ant1_2462_0~Reference

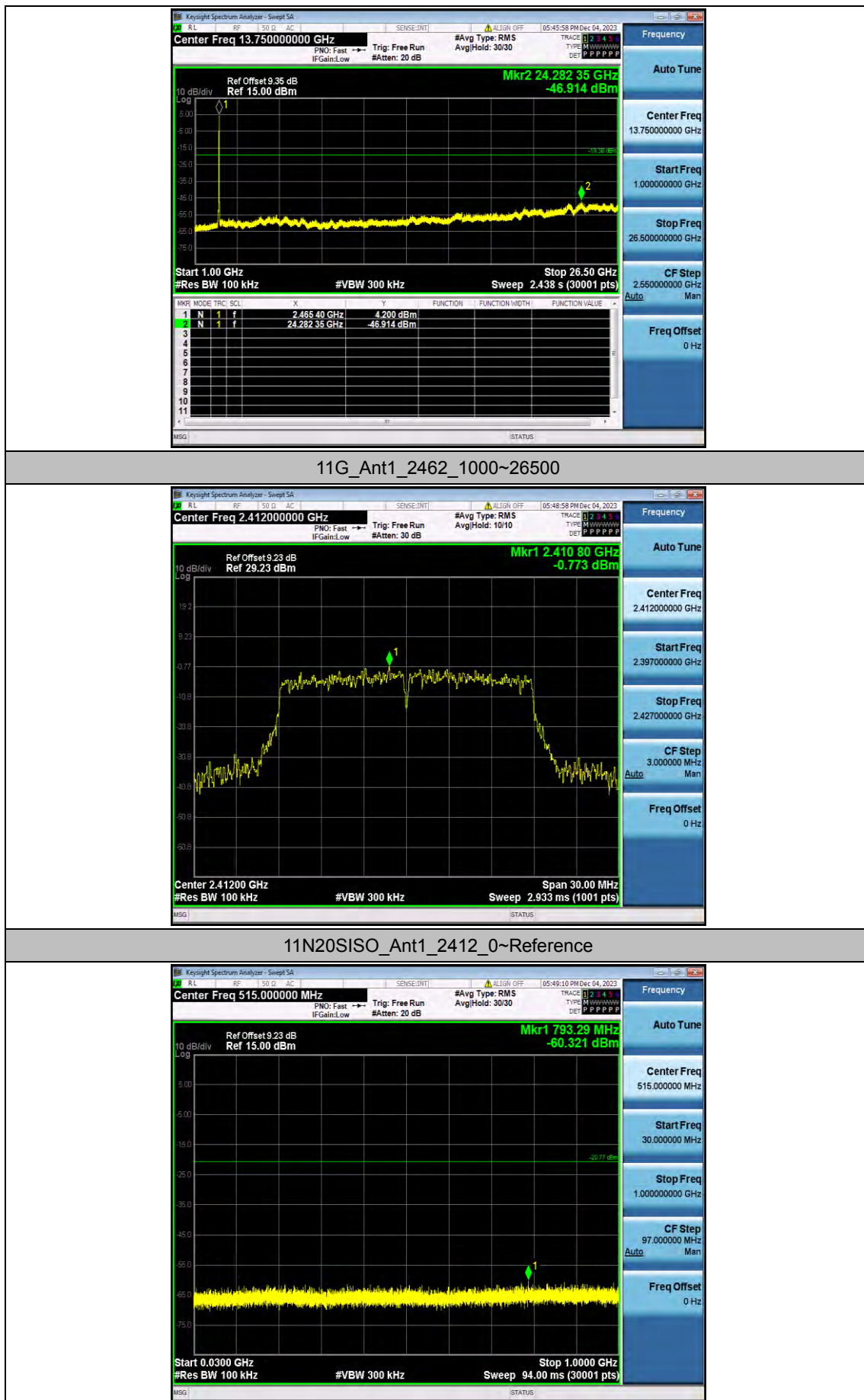




11G_Ant1_2412_1000~26500







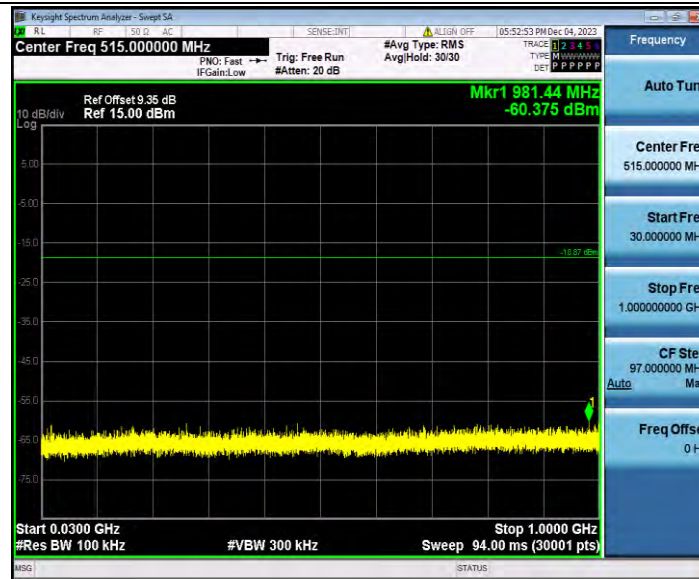
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



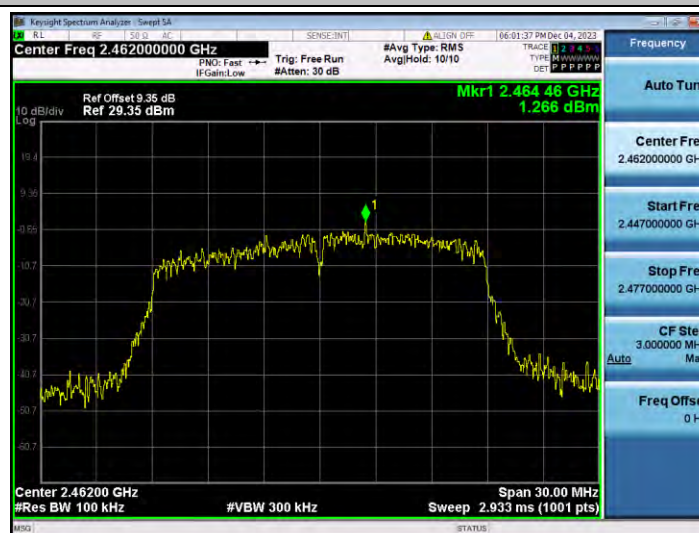
11N20SISO_Ant1_2437_0~Reference



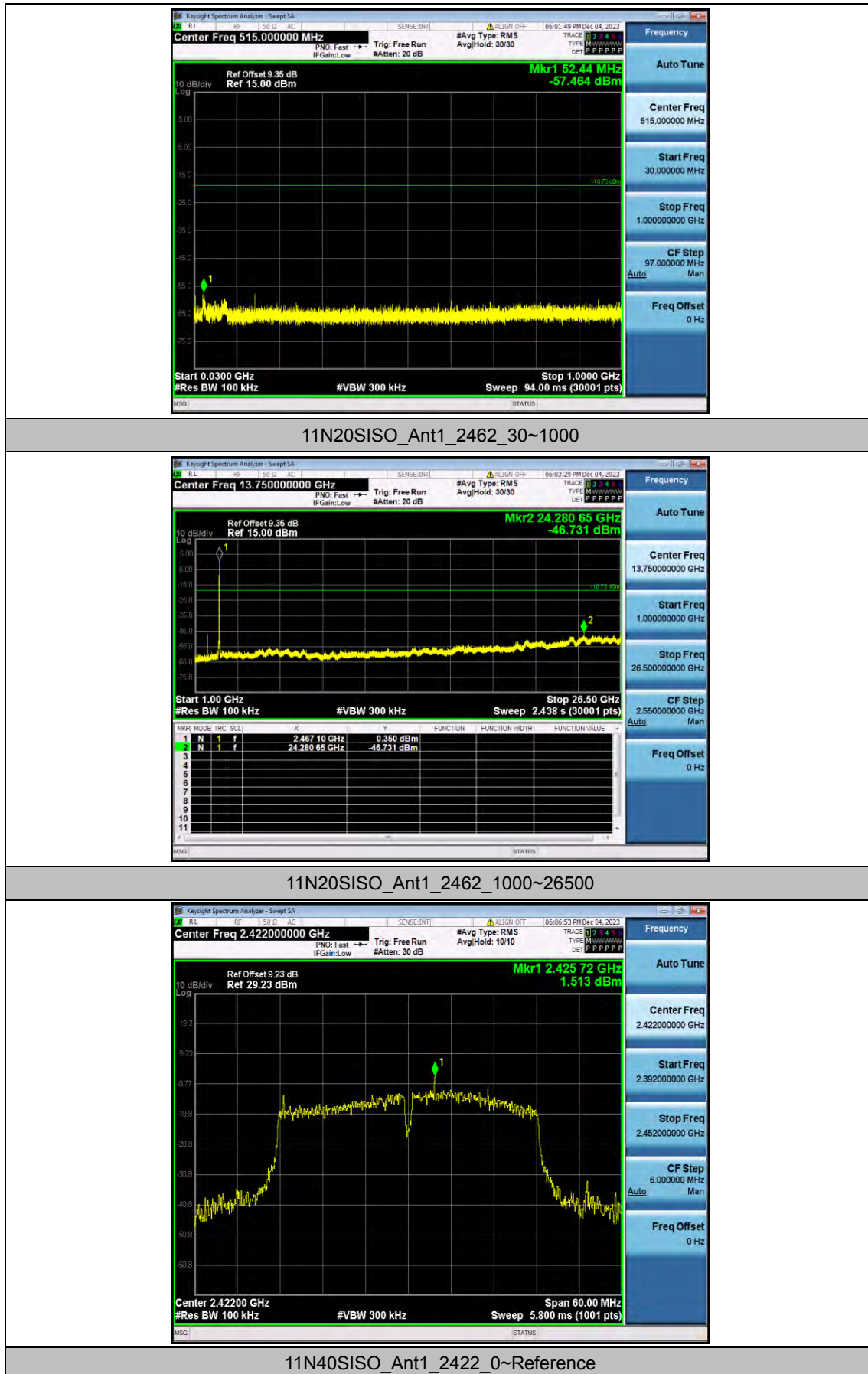
11N20SISO_Ant1_2437_30~1000

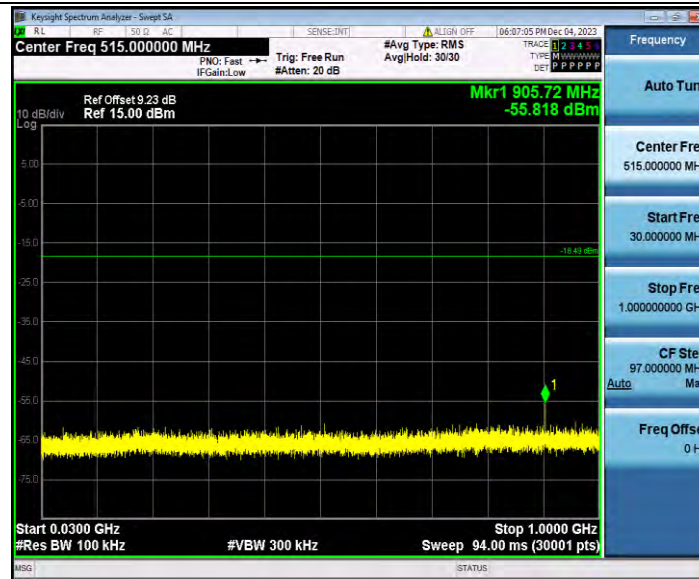


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference





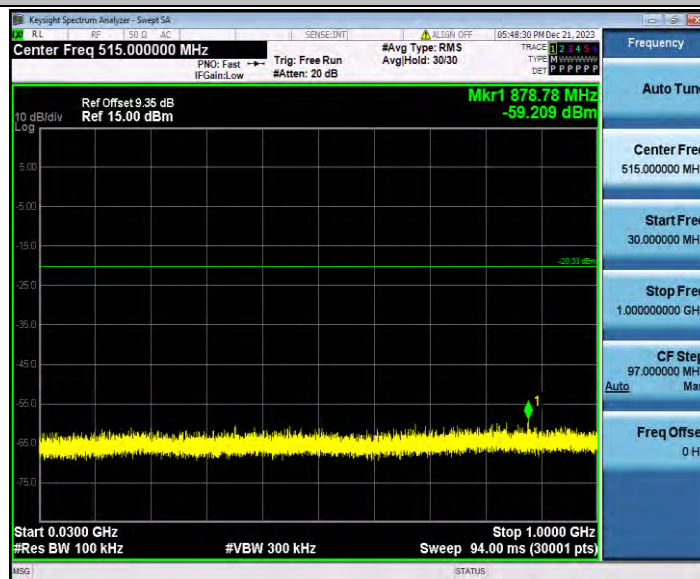
11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



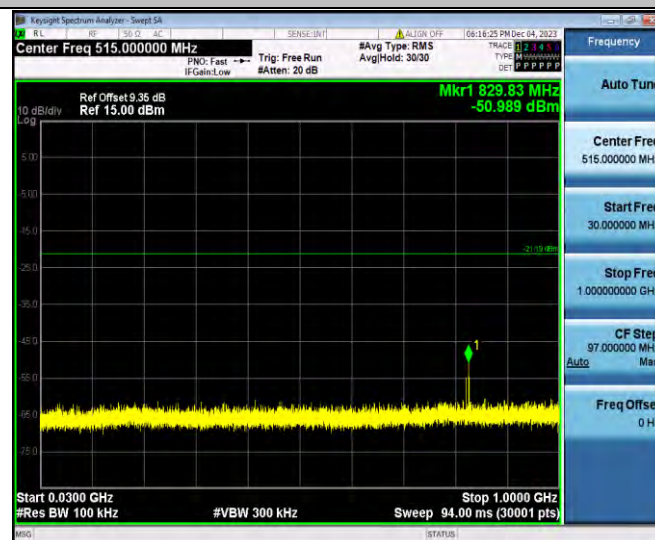
11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000

Appendix C.7: Emissions in Restricted Bands

Test Result

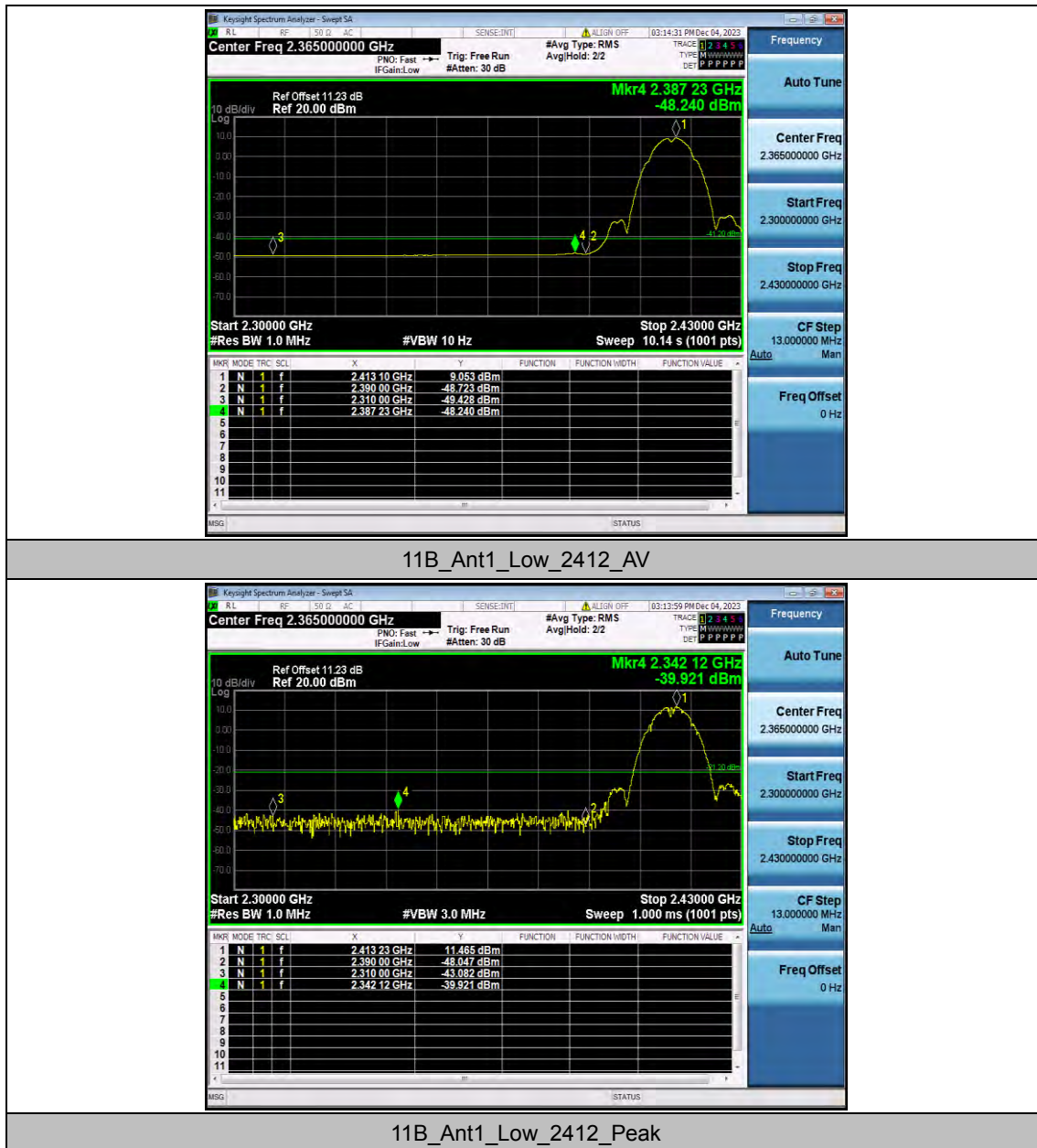
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	2387.230	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2390.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2310.000	-43.08	≤-21.20	52.12	≤74	PASS
				Peak	2342.120	-39.92	≤-21.20	55.28	≤74	PASS
				Peak	2390.000	-48.05	≤-21.20	47.15	≤74	PASS
		High	2462	AV	2483.500	-47.91	≤-41.20	47.29	≤54	PASS
				AV	2486.530	-47.67	≤-41.20	47.53	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-42.82	≤-21.20	52.38	≤74	PASS
				Peak	2495.440	-40.57	≤-21.20	54.63	≤74	PASS
				Peak	2500.000	-46.58	≤-21.20	48.62	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.39	≤-41.20	45.81	≤54	PASS
				AV	2389.960	-44.25	≤-41.20	50.95	≤54	PASS
				AV	2390.000	-44.25	≤-41.20	50.95	≤54	PASS
				Peak	2310.000	-45.2	≤-21.20	50.00	≤74	PASS
				Peak	2389.570	-38.01	≤-21.20	57.19	≤74	PASS
				Peak	2390.000	-41.63	≤-21.20	53.57	≤74	PASS
		High	2462	AV	2483.500	-42.44	≤-41.20	52.76	≤54	PASS
				AV	2483.560	-42.63	≤-41.20	52.57	≤54	PASS
				AV	2500.000	-47.04	≤-41.20	48.16	≤54	PASS
				Peak	2483.500	-39.63	≤-21.20	55.57	≤74	PASS
				Peak	2485.320	-37.96	≤-21.20	57.24	≤74	PASS
				Peak	2500.000	-45.61	≤-21.20	49.59	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.39	≤-41.20	45.81	≤54	PASS
				AV	2389.960	-44.3	≤-41.20	50.90	≤54	PASS
				AV	2390.000	-44.31	≤-41.20	50.89	≤54	PASS
				Peak	2310.000	-43.06	≤-21.20	52.14	≤74	PASS
				Peak	2388.010	-36.69	≤-21.20	58.51	≤74	PASS
				Peak	2390.000	-37.99	≤-21.20	57.21	≤74	PASS
		High	2462	AV	2483.500	-45.48	≤-41.20	49.72	≤54	PASS
				AV	2483.560	-45.56	≤-41.20	49.64	≤54	PASS
				AV	2500.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2483.500	-42.33	≤-21.20	52.87	≤74	PASS
				Peak	2484.220	-37.6	≤-21.20	57.60	≤74	PASS

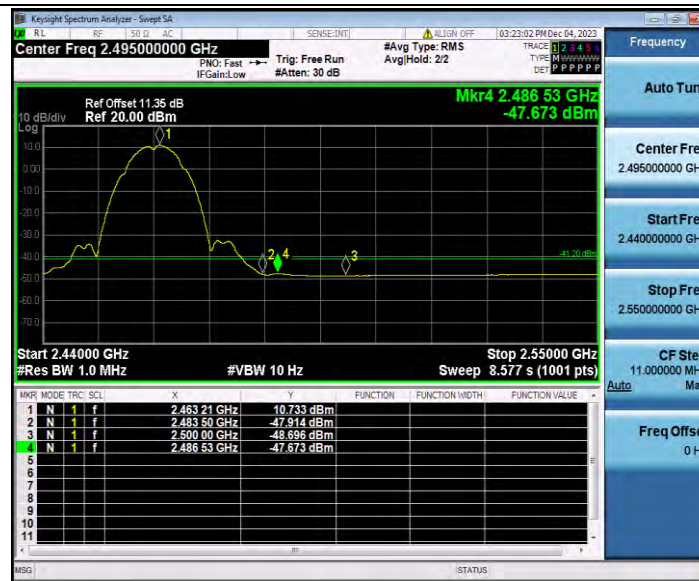
				Peak	2500.000	-48.42	≤ -21.20	46.78	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.32	≤ -41.20	45.88	≤ 54	PASS
				AV	2389.960	-41.43	≤ -41.20	53.77	≤ 54	PASS
				AV	2390.000	-41.43	≤ -41.20	53.77	≤ 54	PASS
				Peak	2310.000	-48.01	≤ -21.20	47.19	≤ 74	PASS
				Peak	2389.960	-35.42	≤ -21.20	59.78	≤ 74	PASS
				Peak	2390.000	-35.42	≤ -21.20	59.78	≤ 74	PASS
		High	2452	AV	2483.500	-47.53	≤ -41.20	47.67	≤ 54	PASS
				AV	2483.560	-47.54	≤ -41.20	47.66	≤ 54	PASS
				AV	2500.000	-48.96	≤ -41.20	46.24	≤ 54	PASS
				Peak	2483.500	-45.98	≤ -21.20	49.22	≤ 74	PASS
				Peak	2484.880	-40.17	≤ -21.20	55.03	≤ 74	PASS
				Peak	2500.000	-46.9	≤ -21.20	48.30	≤ 74	PASS

Note:

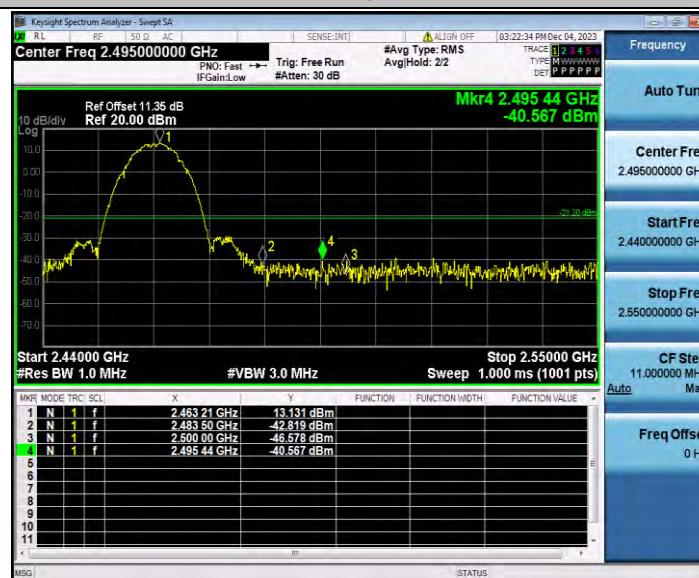
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

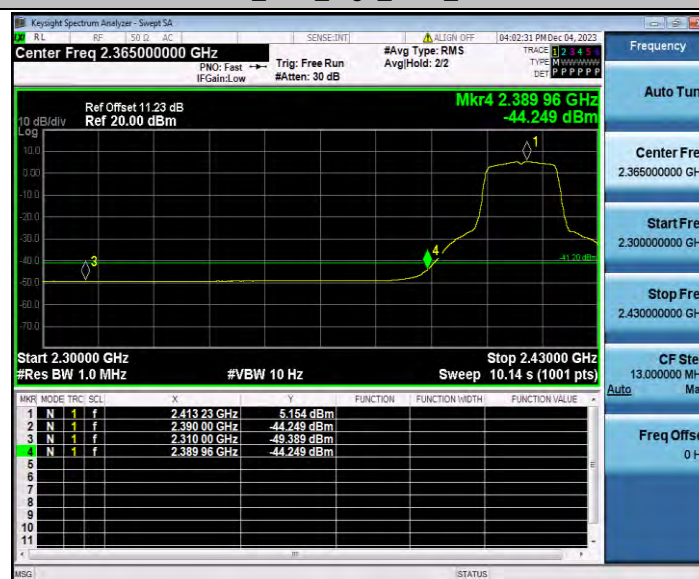




11B_Ant1_High_2462_AV



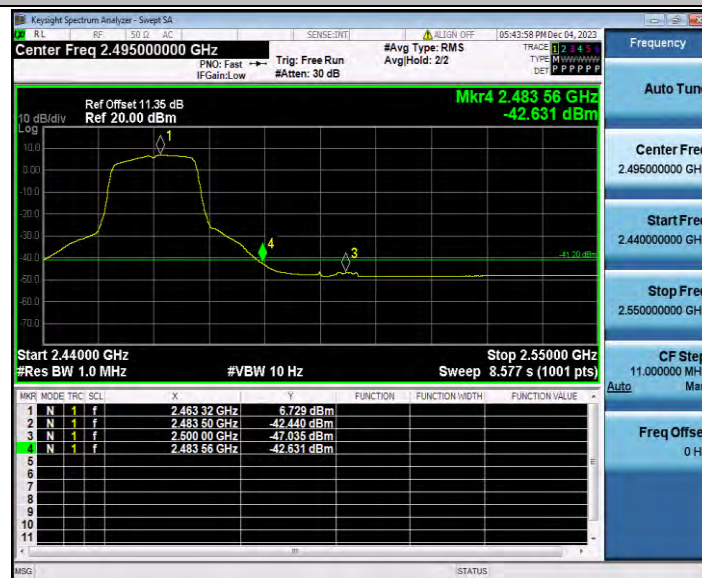
11B_Ant1_High_2462_Peak



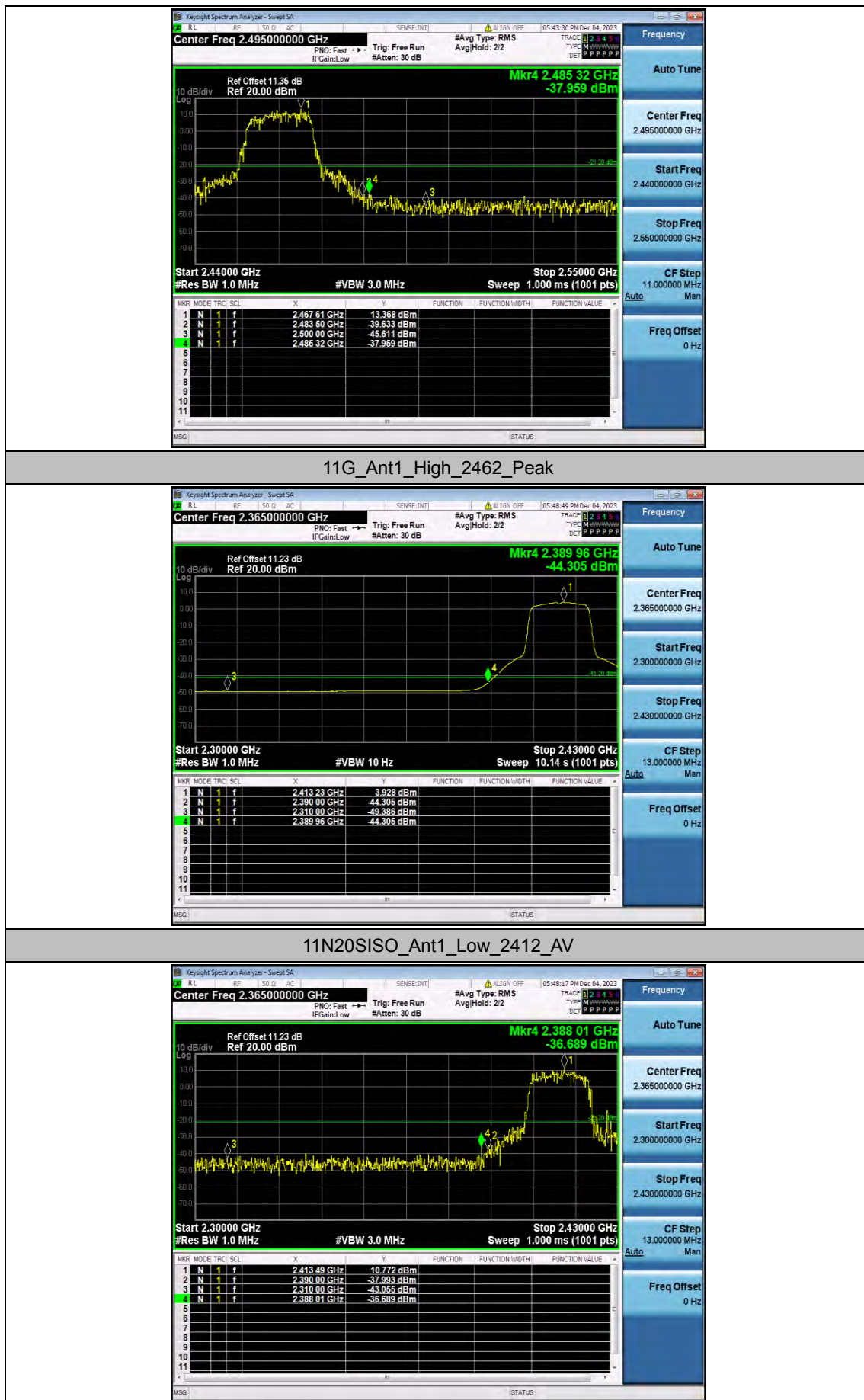
11G_Ant1_Low_2412_AV



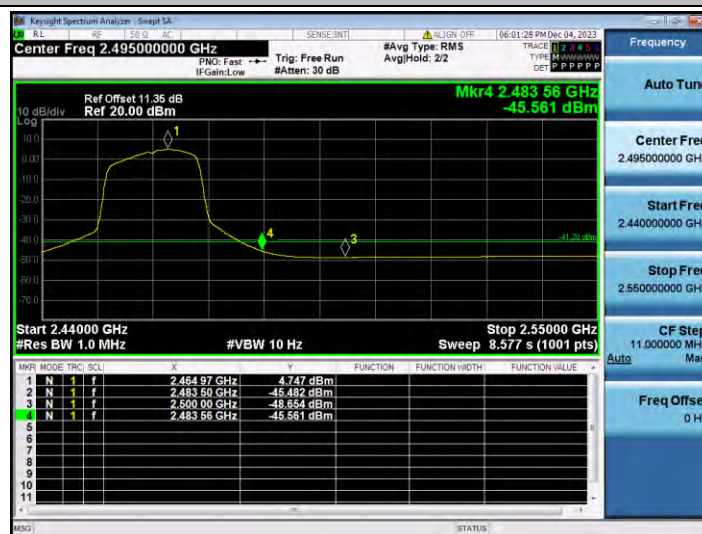
11G_Ant1_Low_2412_Peak



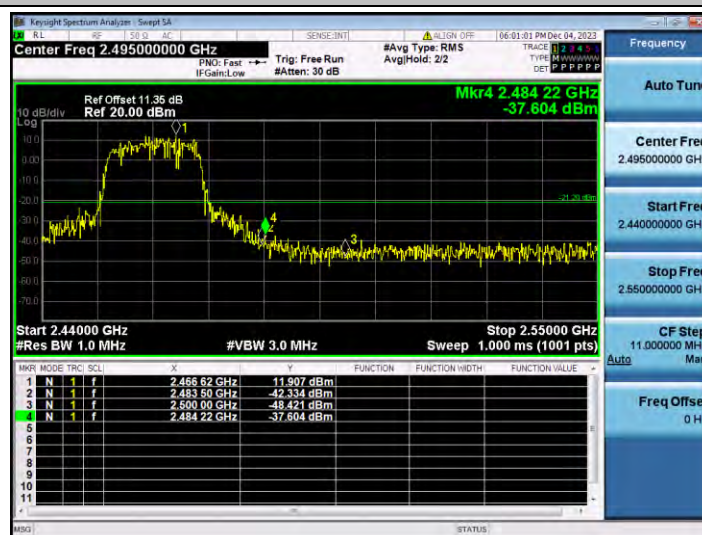
11G_Ant1_High_2462_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



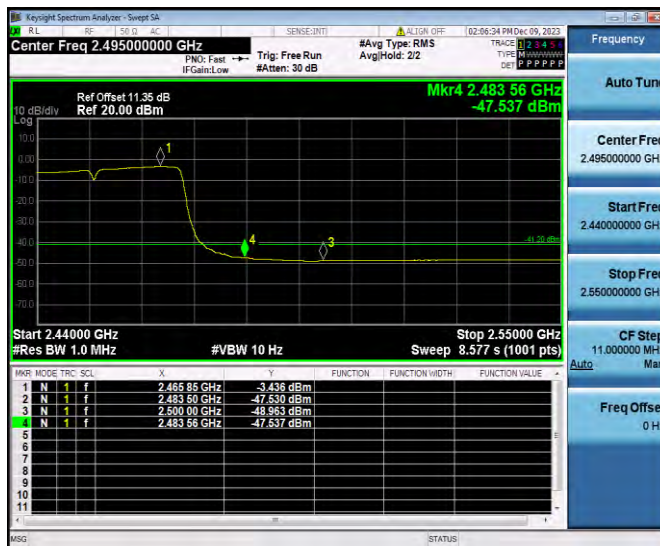
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak