

Case No. : <u>GTS20231018011-1-66</u>	
Ambient Condition: <u>22</u> °C, <u>49</u> %RH,	
Test Date: <u>2024.1.19</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	9.040	2407.960	2417.000	0.5	PASS
		2437	9.080	2431.960	2441.040	0.5	PASS
		2462	6.080	2458.920	2465.000	0.5	PASS
11G	Ant1	2412	14.560	2405.680	2420.240	0.5	PASS
		2437	14.480	2428.840	2443.320	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11N20SISO	Ant1	2412	13.920	2406.920	2420.840	0.5	PASS
		2437	14.120	2428.160	2442.280	0.5	PASS
		2462	13.800	2455.680	2469.480	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437





11G_Ant1_2437



11G_Ant1_2462



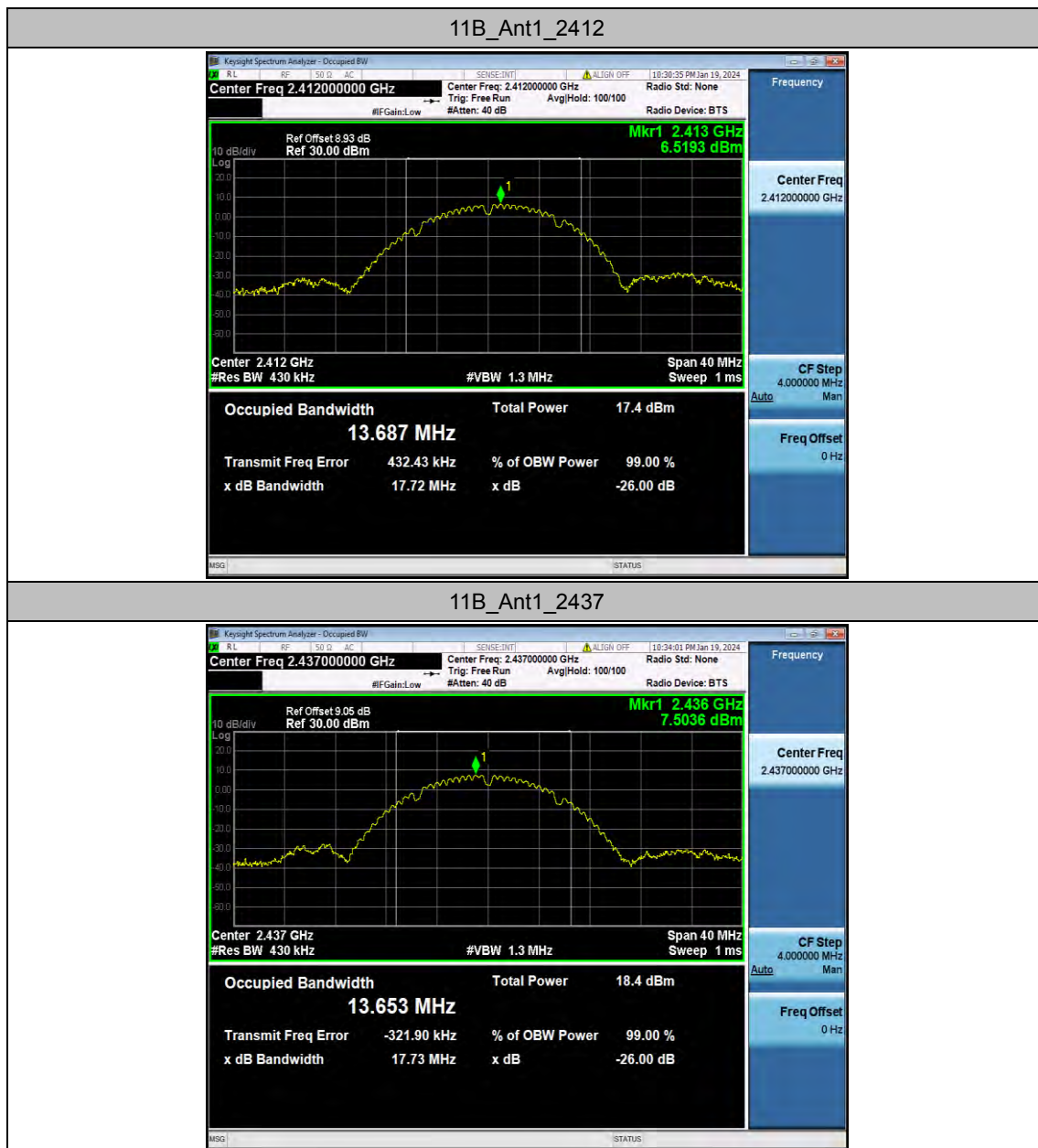


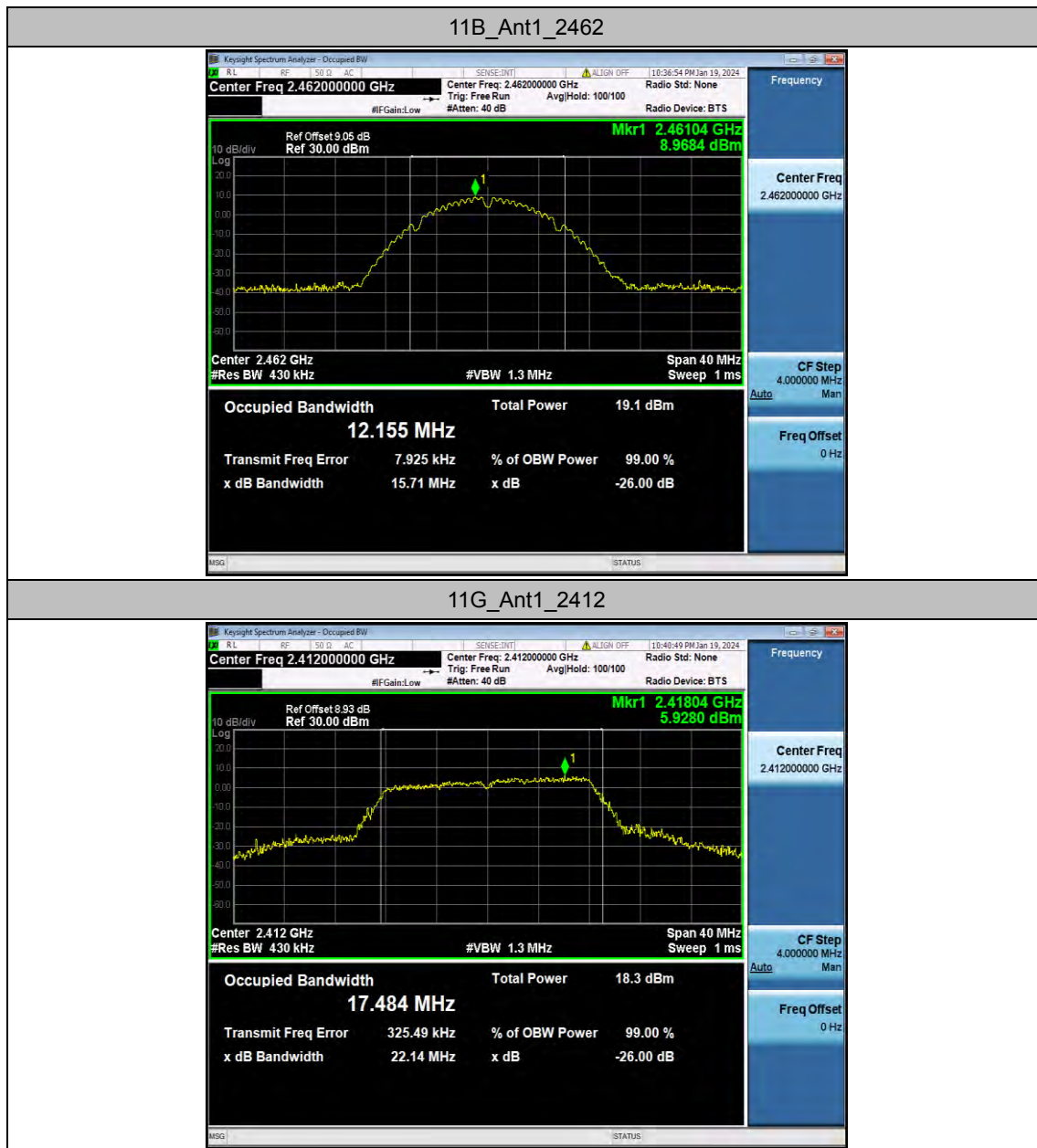
Appendix C.2: Occupied Channel Bandwidth

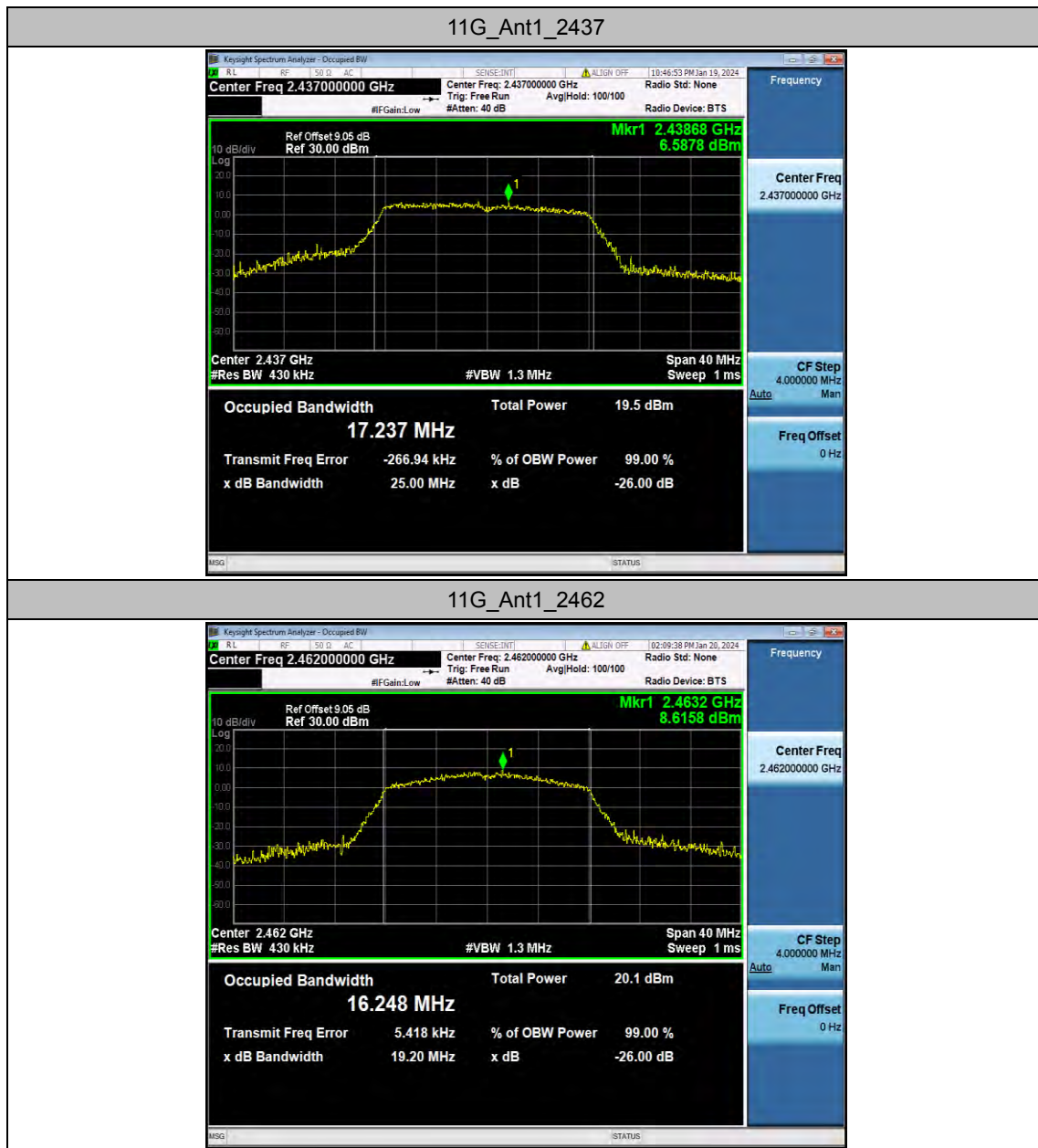
Test Result

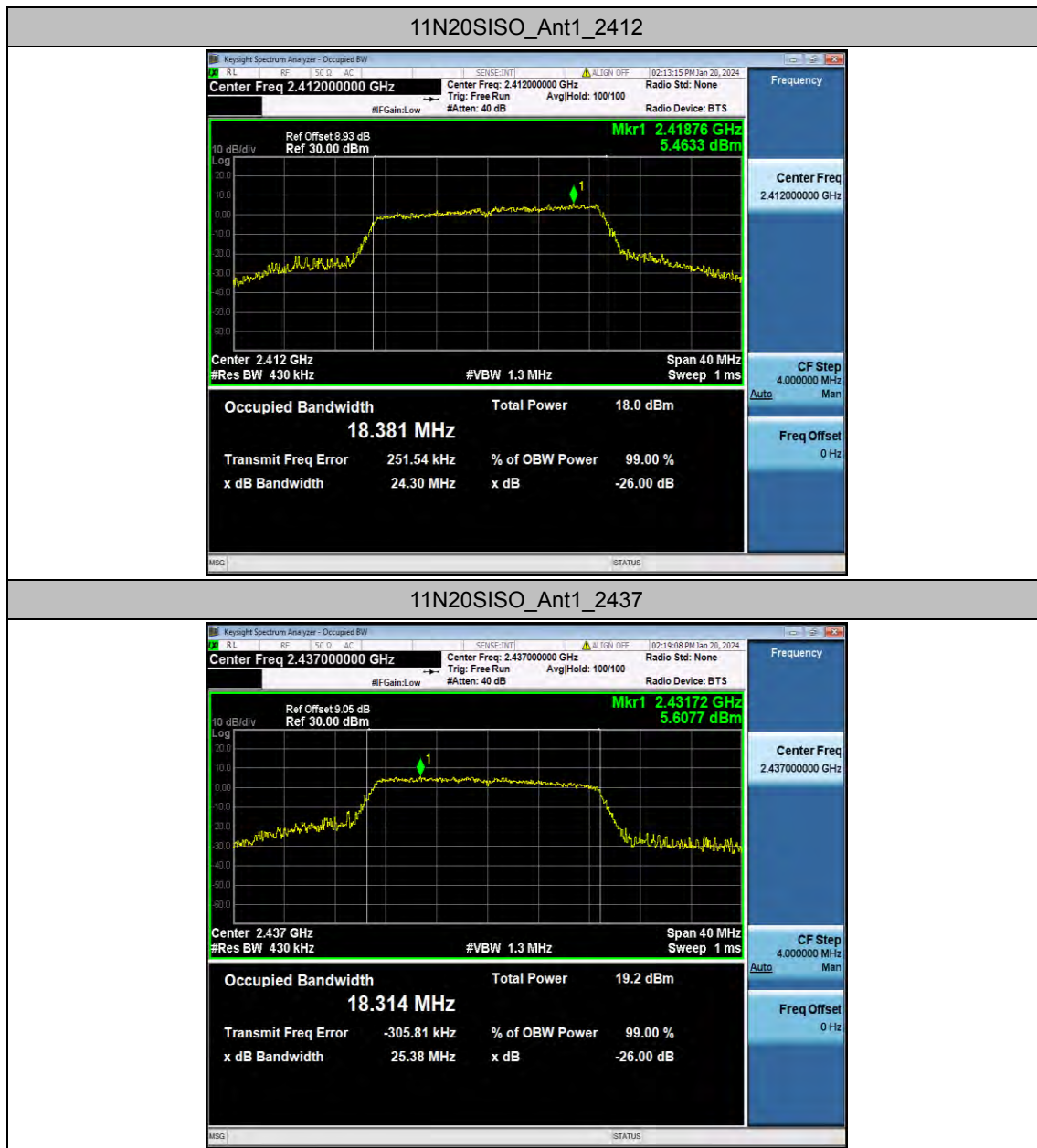
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.687	2405.5889	2419.2759	---	---
		2437	13.653	2429.8516	2443.5046	---	---
		2462	12.155	2455.9304	2468.0854	---	---
11G	Ant1	2412	17.484	2403.5835	2421.0675	---	---
		2437	17.237	2428.1146	2445.3516	---	---
		2462	16.248	2453.8814	2470.1294	---	---
11N20SISO	Ant1	2412	18.381	2403.0610	2421.4420	---	---
		2437	18.314	2427.5372	2445.8512	---	---
		2462	17.431	2453.2884	2470.7194	---	---

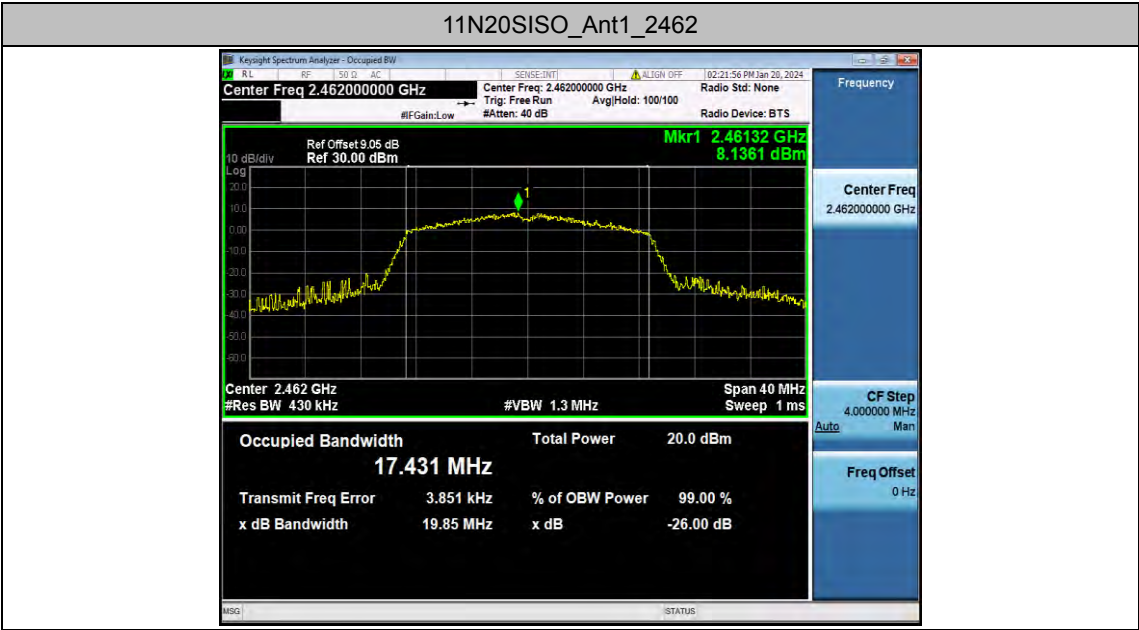
Test Graphs











Appendix C.3: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.42	0	0	17.42	≤30.00	PASS
		2437	18.41	0	0	18.41	≤30.00	PASS
		2462	19.07	0	0	19.07	≤30.00	PASS
11G	Ant1	2412	19.47	0	0	19.47	≤30.00	PASS
		2437	20.53	0	0	20.53	≤30.00	PASS
		2462	21.13	0	0	21.13	≤30.00	PASS
11N20SI SO	Ant1	2412	19.17	0	0	19.17	≤30.00	PASS
		2437	20.34	0	0	20.34	≤30.00	PASS
		2462	21.19	0	0	21.19	≤30.00	PASS

Note:

1.The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix C.4: Maximum power spectral density

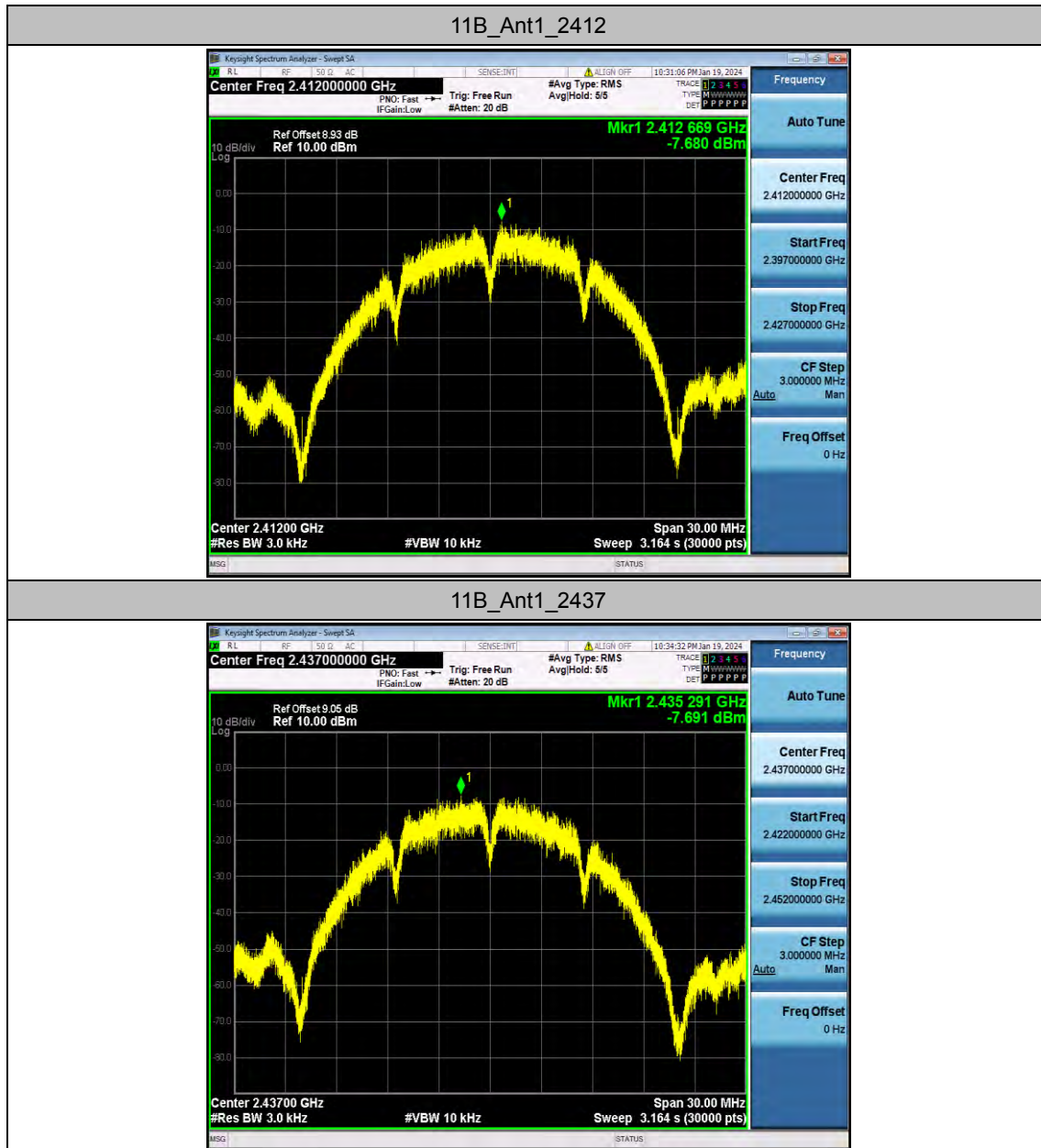
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.68	≤8.00	PASS
		2437	-7.69	≤8.00	PASS
		2462	-5.65	≤8.00	PASS
11G	Ant1	2412	-12.19	≤8.00	PASS
		2437	-11.62	≤8.00	PASS
		2462	-9.84	≤8.00	PASS
11N20SISO	Ant1	2412	-11.58	≤8.00	PASS
		2437	-11.73	≤8.00	PASS
		2462	-8.62	≤8.00	PASS

Note:

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

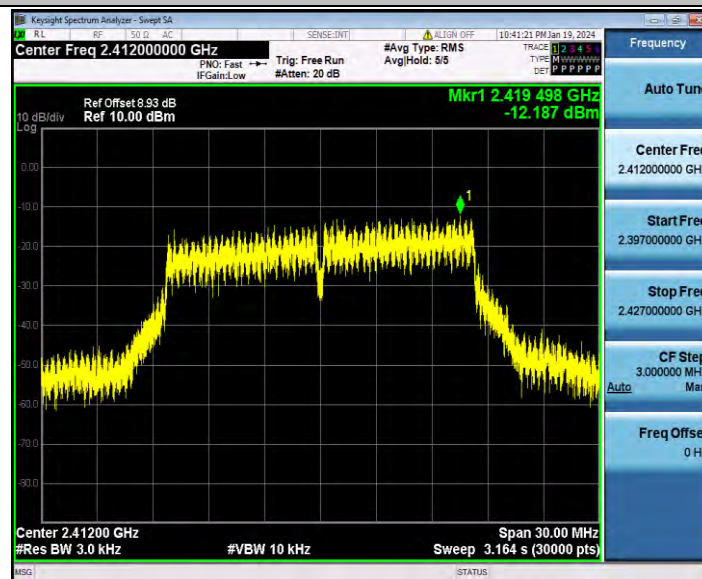
Test Graphs

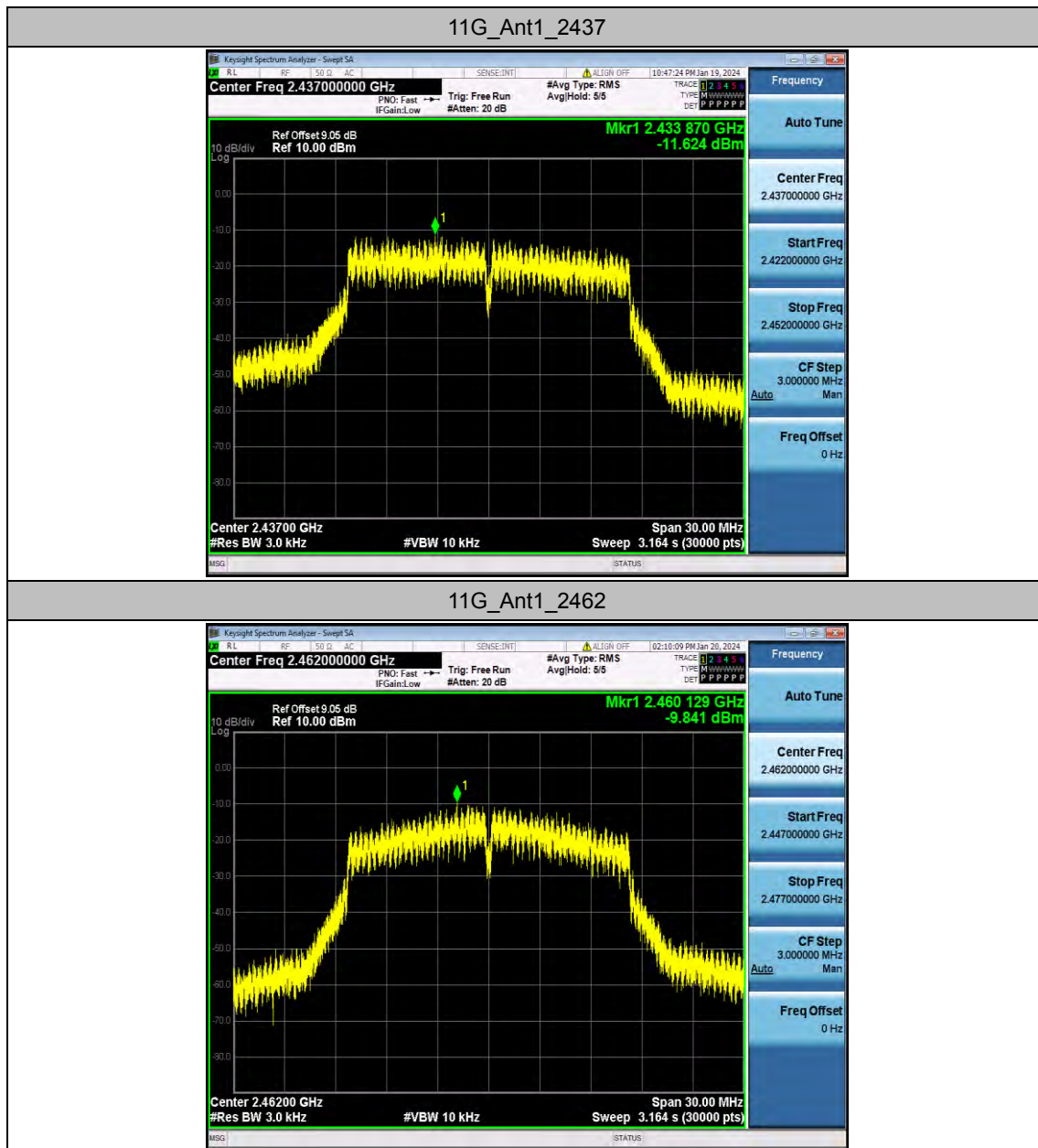


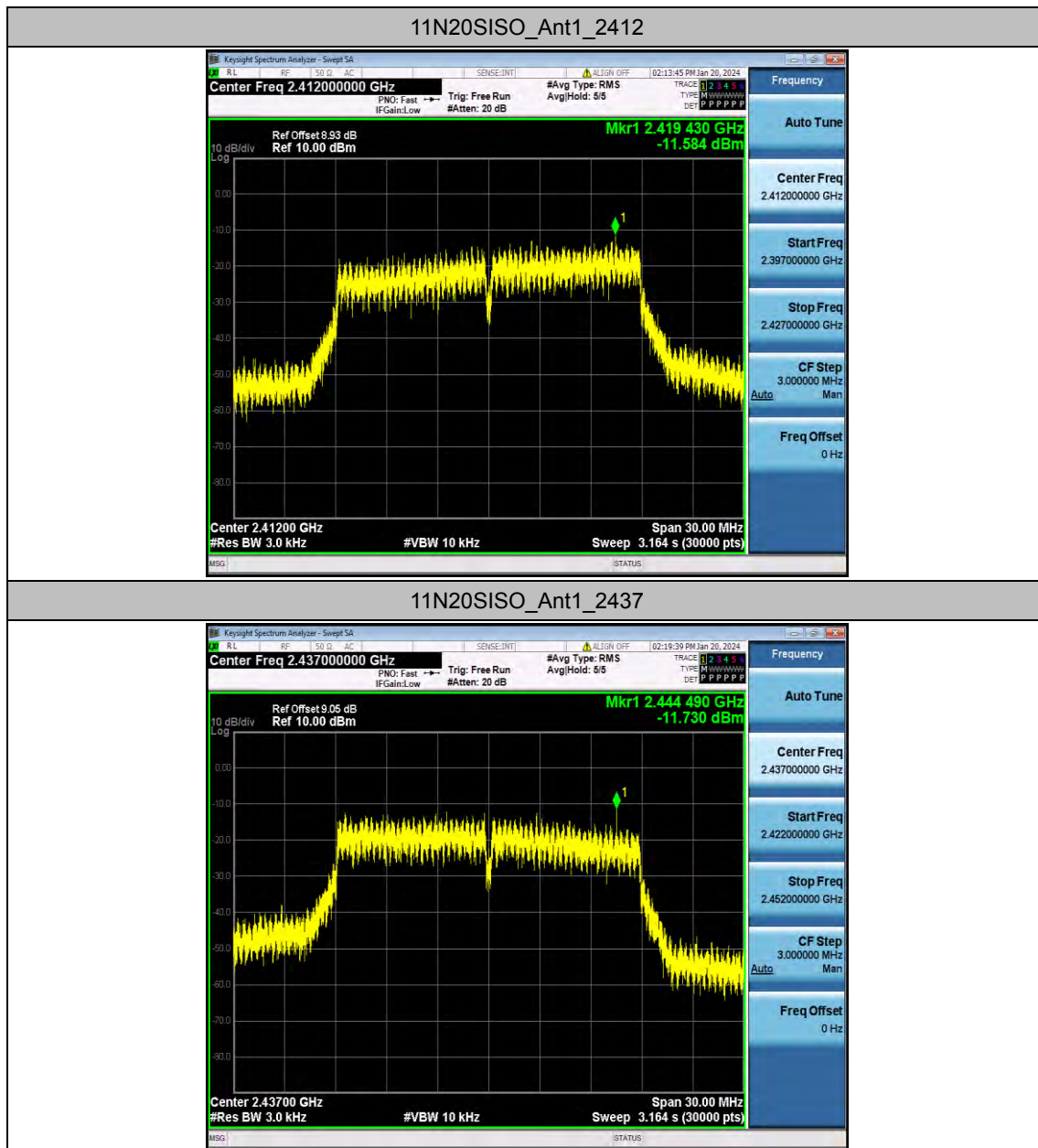
11B_Ant1_2462

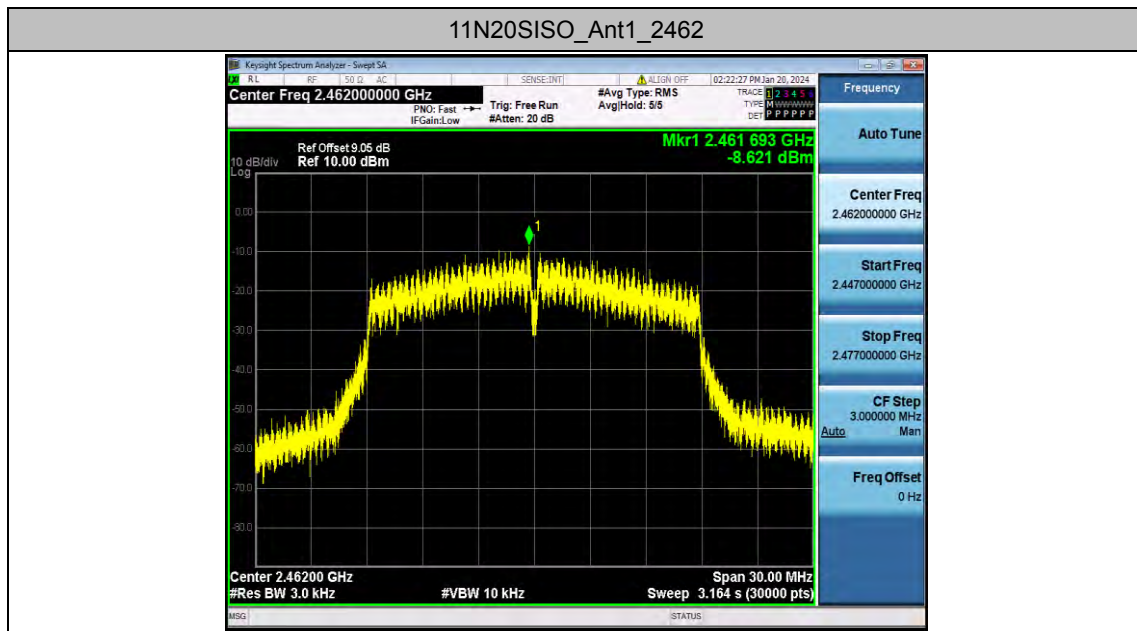


11G_Ant1_2412









Appendix C.5: Band edge measurements

Test Result

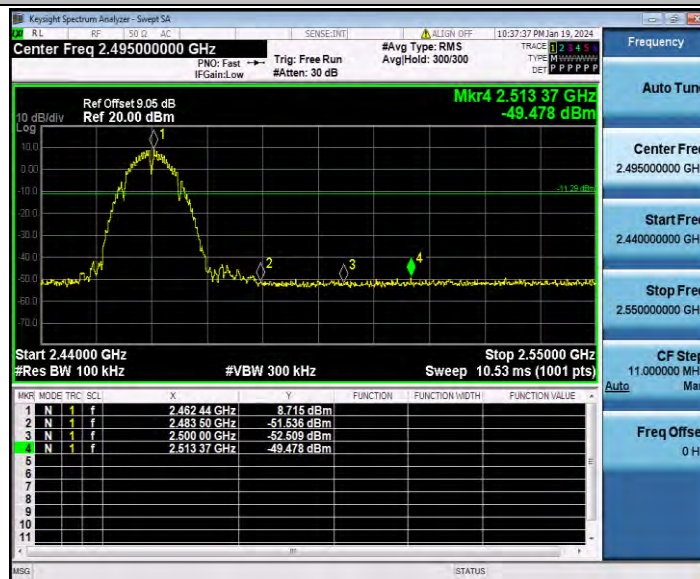
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	5.90	-35.9	≤ -14.1	PASS
		High	2462	8.72	-49.48	≤ -11.29	PASS
11G	Ant1	Low	2412	2.20	-29.18	≤ -17.8	PASS
		High	2462	5.22	-43.57	≤ -14.78	PASS
11N20 SISO	Ant1	Low	2412	1.93	-29.86	≤ -18.07	PASS
		High	2462	5.10	-44.69	≤ -14.9	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412



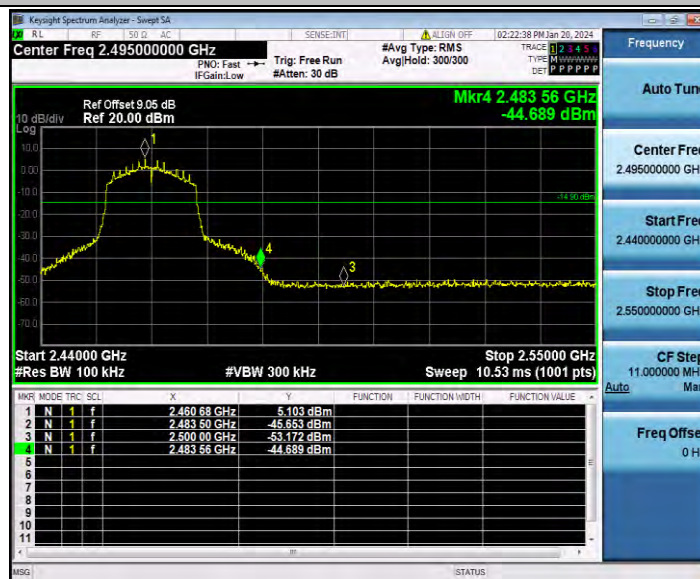
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

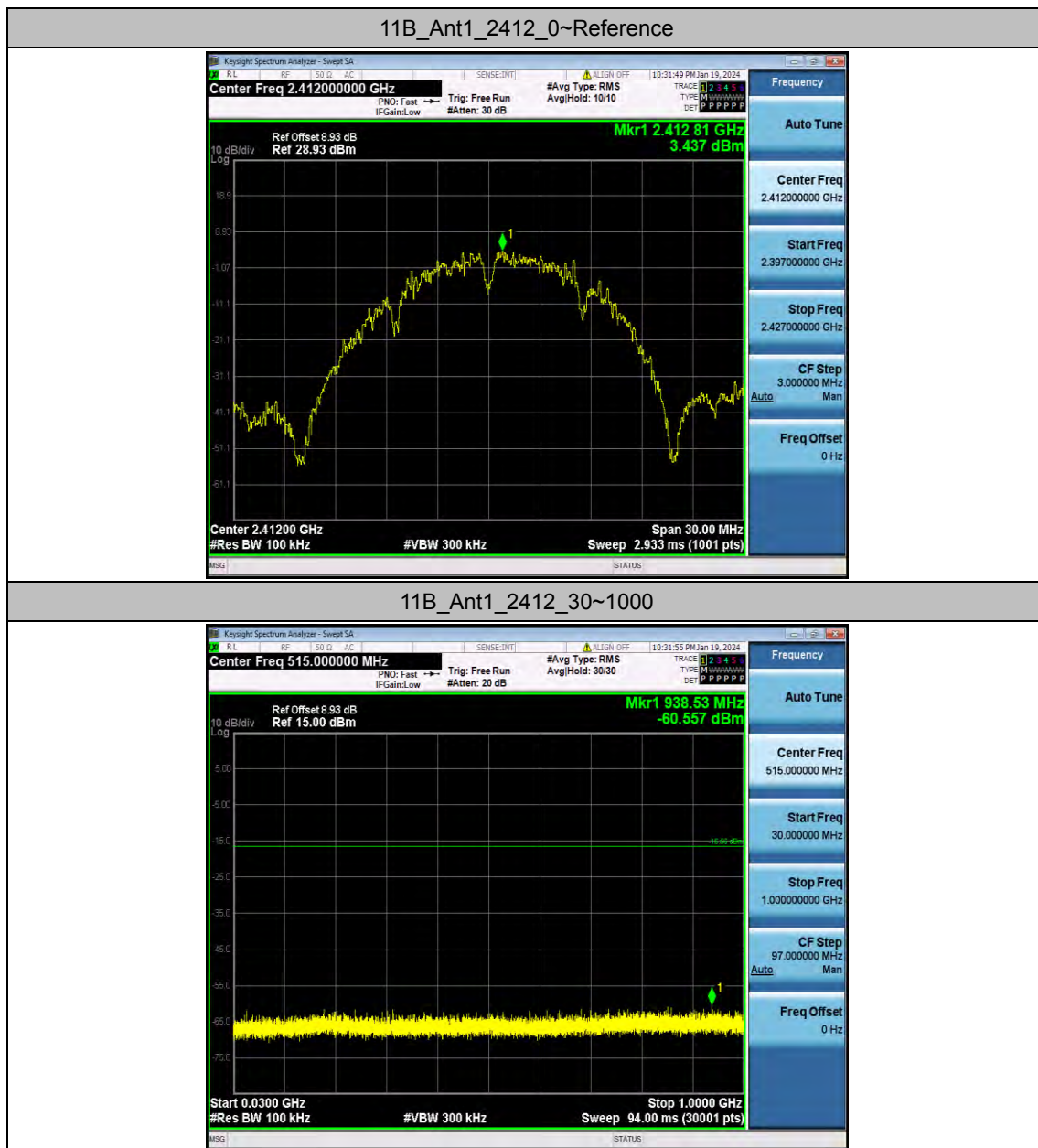


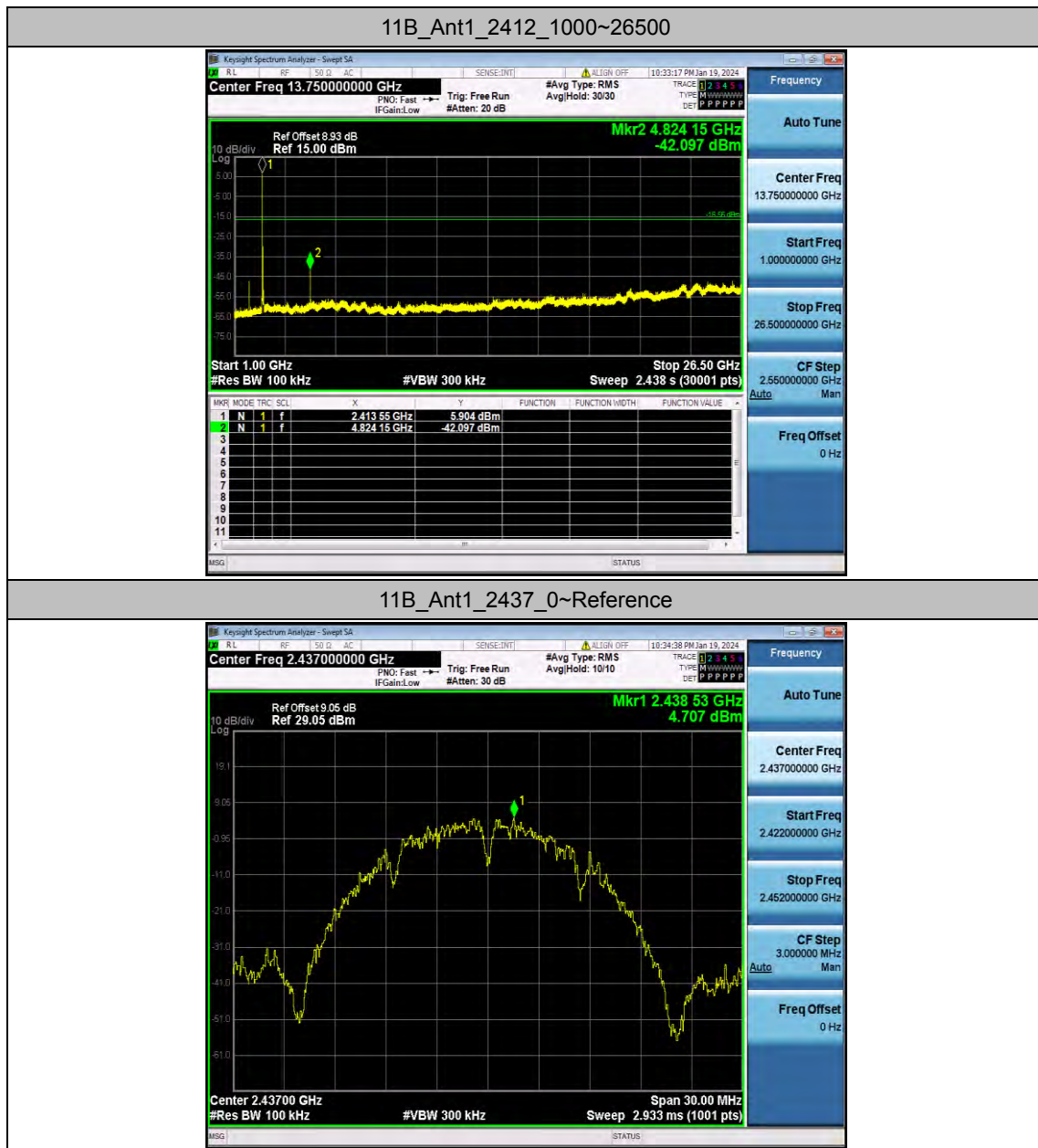
Appendix C.6: Conducted Spurious Emission

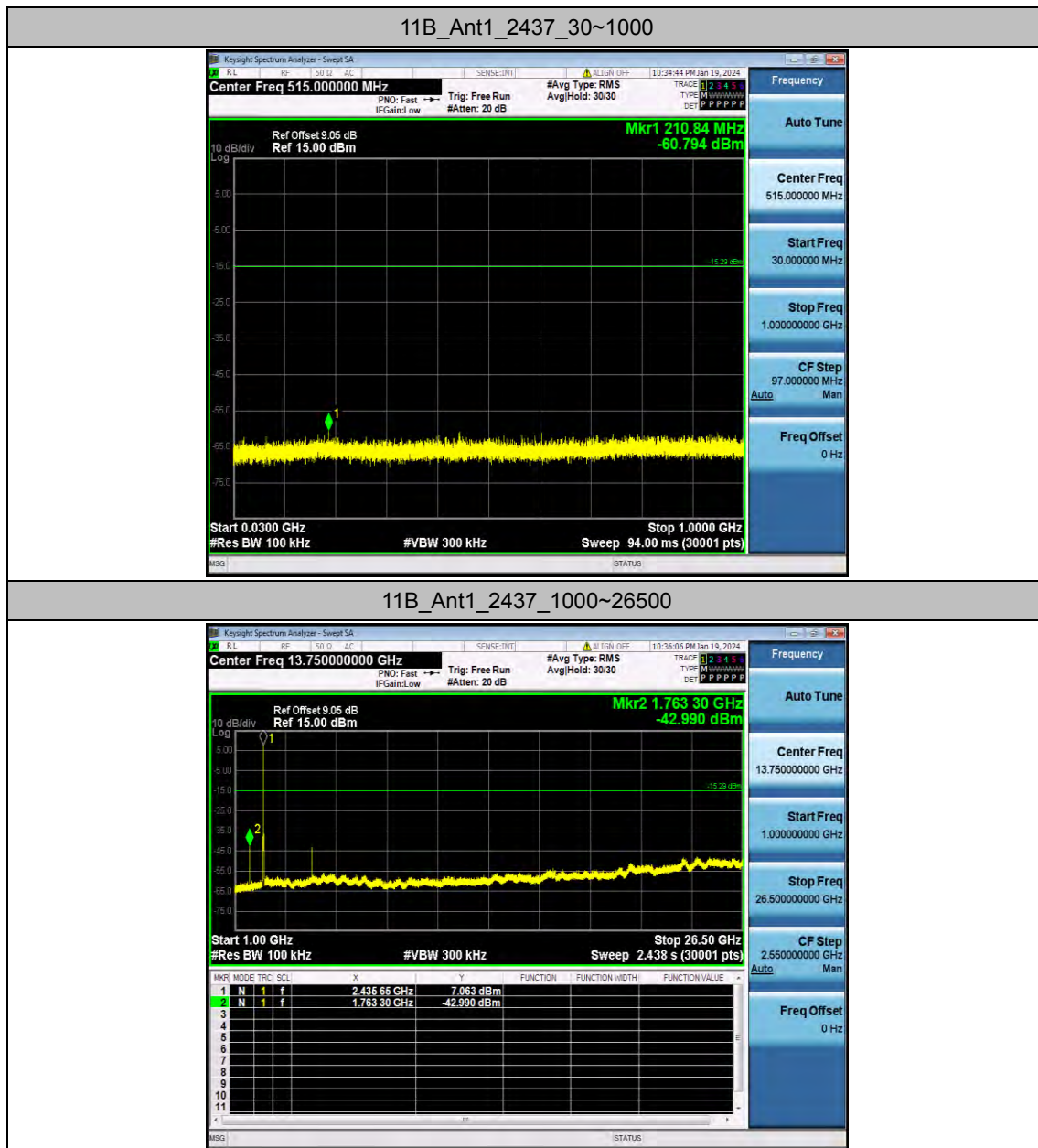
Test Result

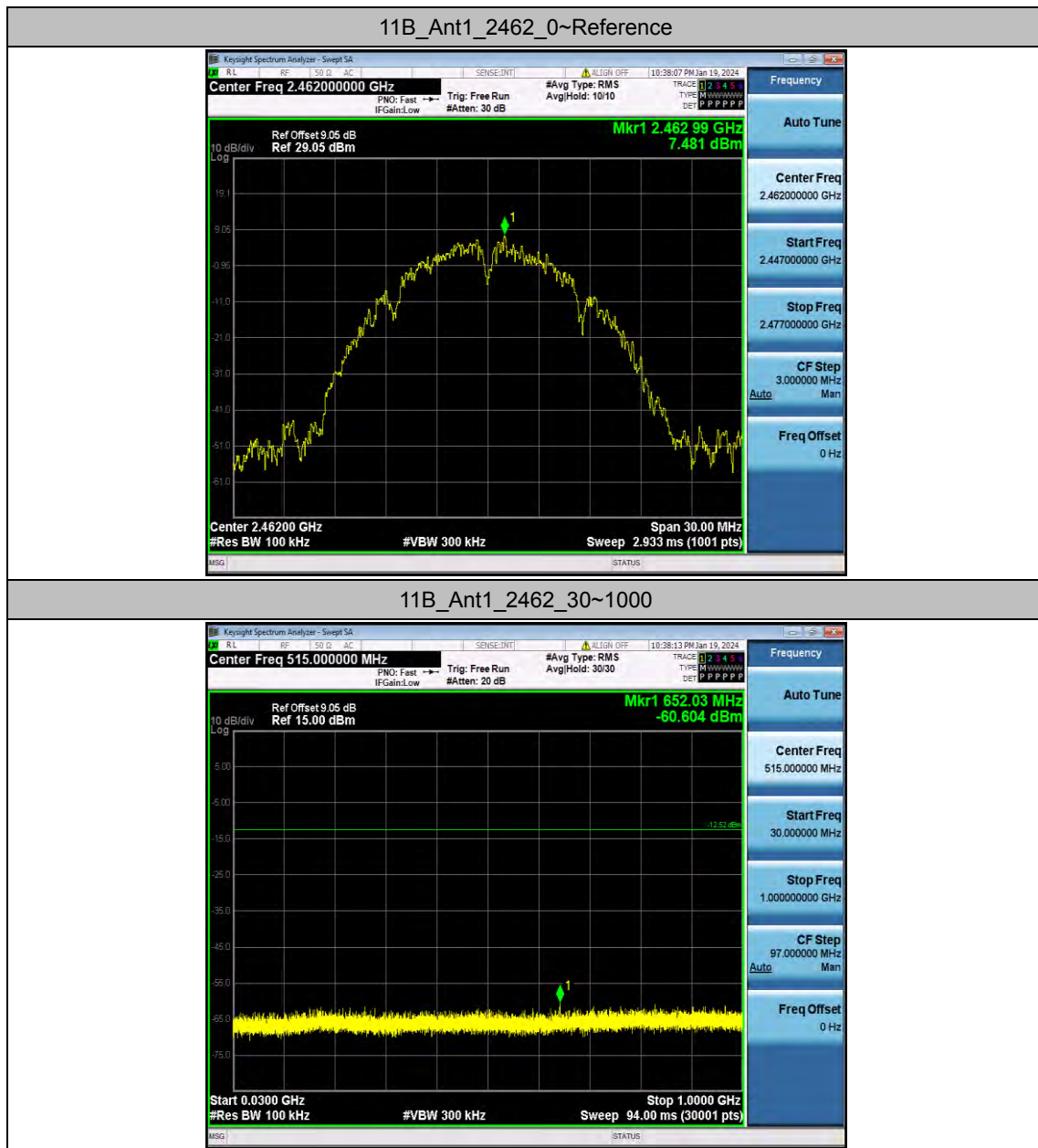
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.44	3.44	---	PASS
			30~1000	3.44	-60.56	≤ -16.56	PASS
			1000~26500	3.44	-42.1	≤ -16.56	PASS
		2437	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-60.79	≤ -15.29	PASS
			1000~26500	4.71	-42.99	≤ -15.29	PASS
		2462	Reference	7.48	7.48	---	PASS
			30~1000	7.48	-60.6	≤ -12.52	PASS
			1000~26500	7.48	-46.95	≤ -12.52	PASS
11G	Ant1	2412	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-60.81	≤ -20.91	PASS
			1000~26500	-0.91	-47.8	≤ -20.91	PASS
		2437	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-60.32	≤ -17.74	PASS
			1000~26500	2.26	-47.81	≤ -17.74	PASS
		2462	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-60.94	≤ -18.75	PASS
			1000~26500	1.25	-48.7	≤ -18.75	PASS
11N20SISO	Ant1	2412	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-59.94	≤ -17.5	PASS
			1000~26500	2.50	-48.79	≤ -17.5	PASS
		2437	Reference	0.53	0.53	---	PASS
			30~1000	0.53	-60.59	≤ -19.47	PASS
			1000~26500	0.53	-48.74	≤ -19.47	PASS
		2462	Reference	1.55	1.55	---	PASS
			30~1000	1.55	-60.08	≤ -18.45	PASS
			1000~26500	1.55	-47.89	≤ -18.45	PASS

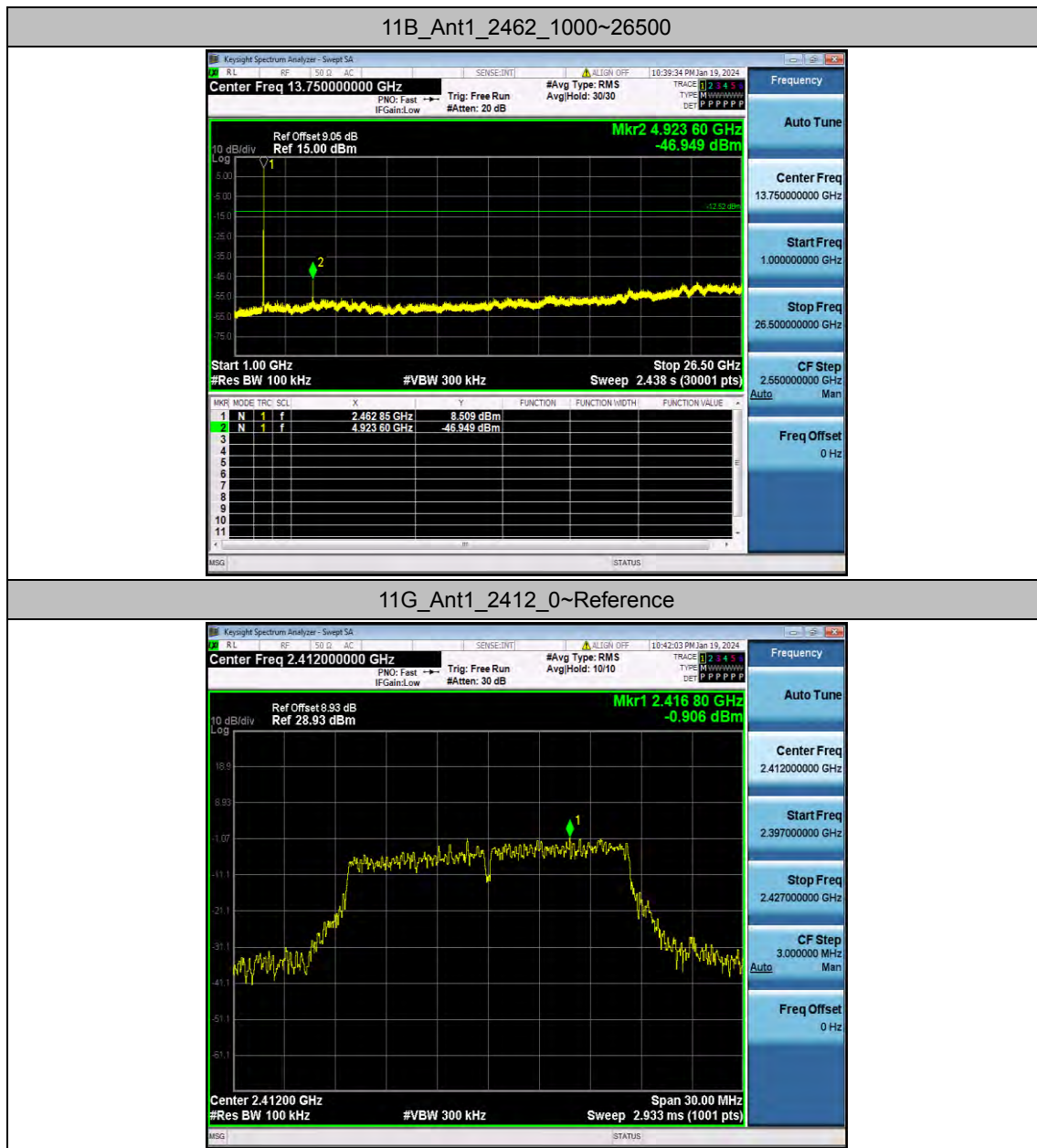
Test Graphs

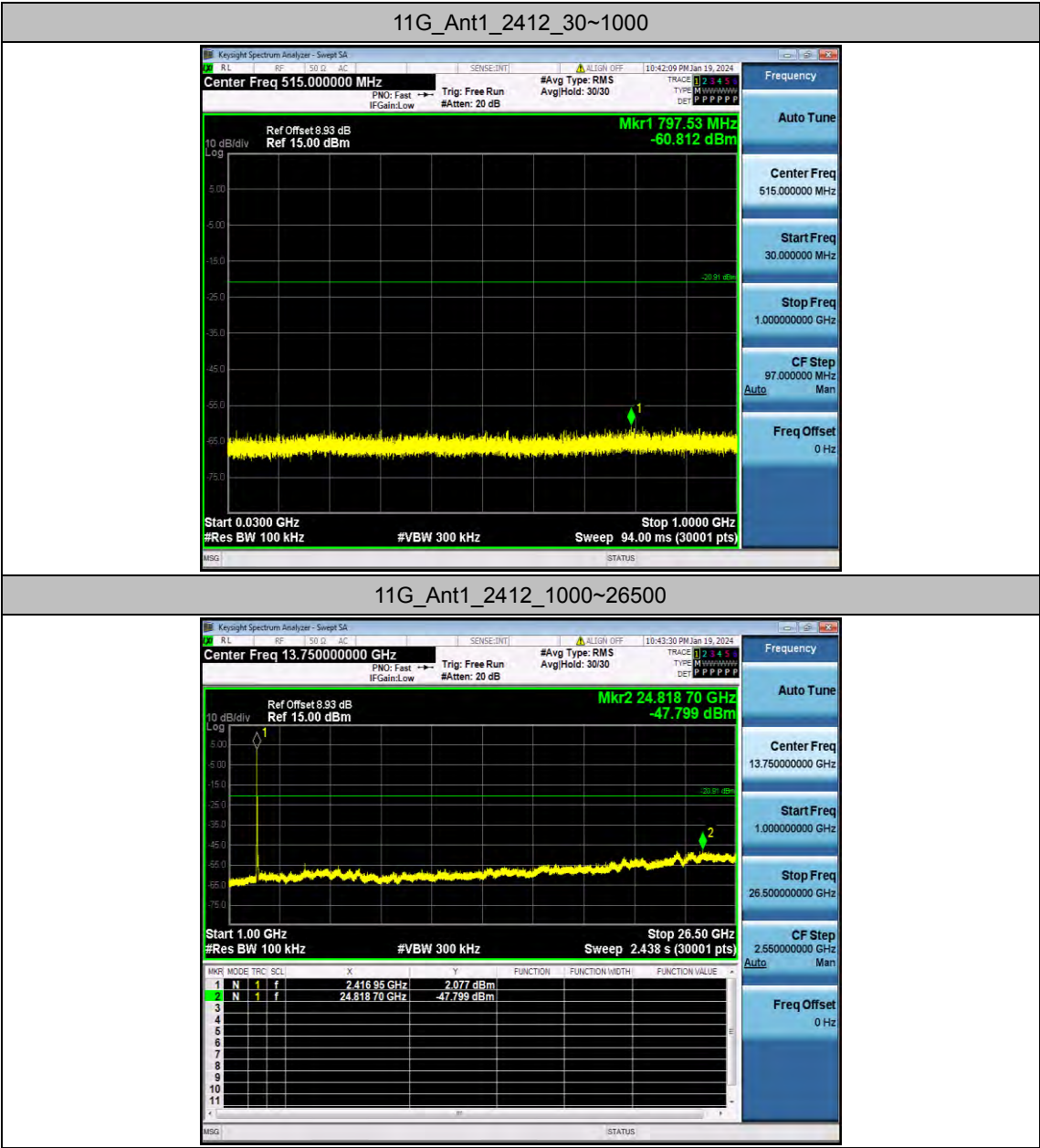


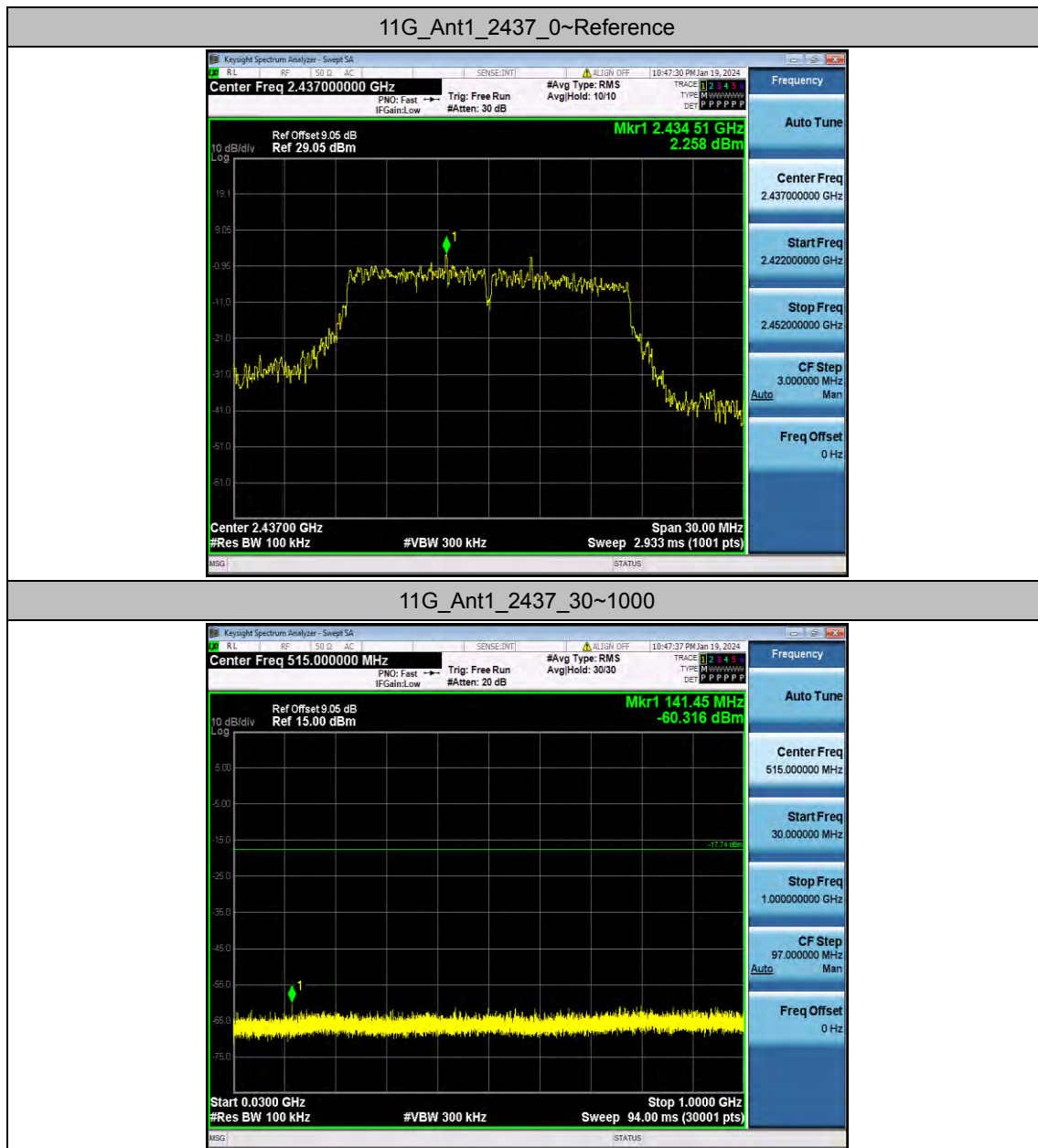


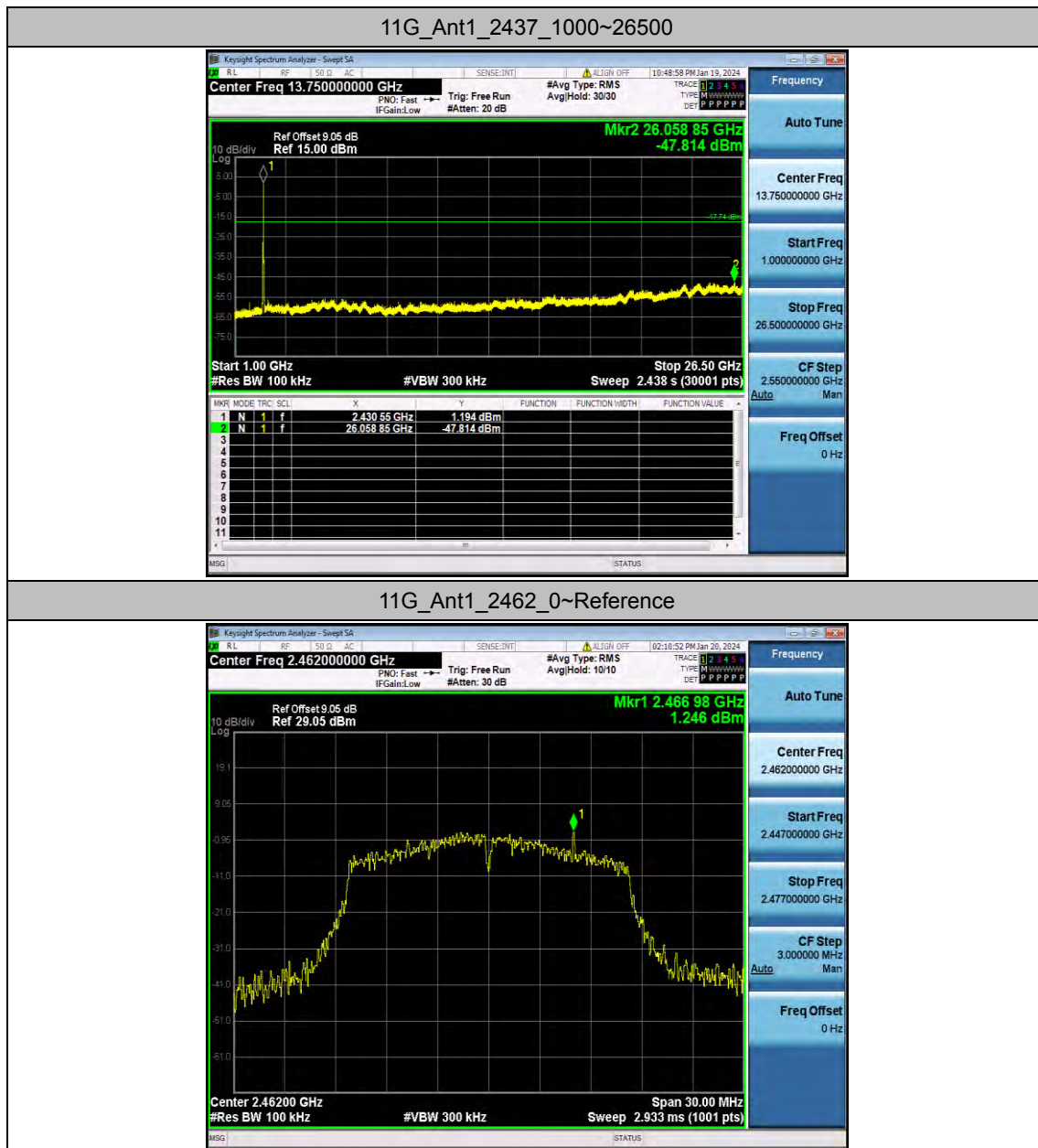


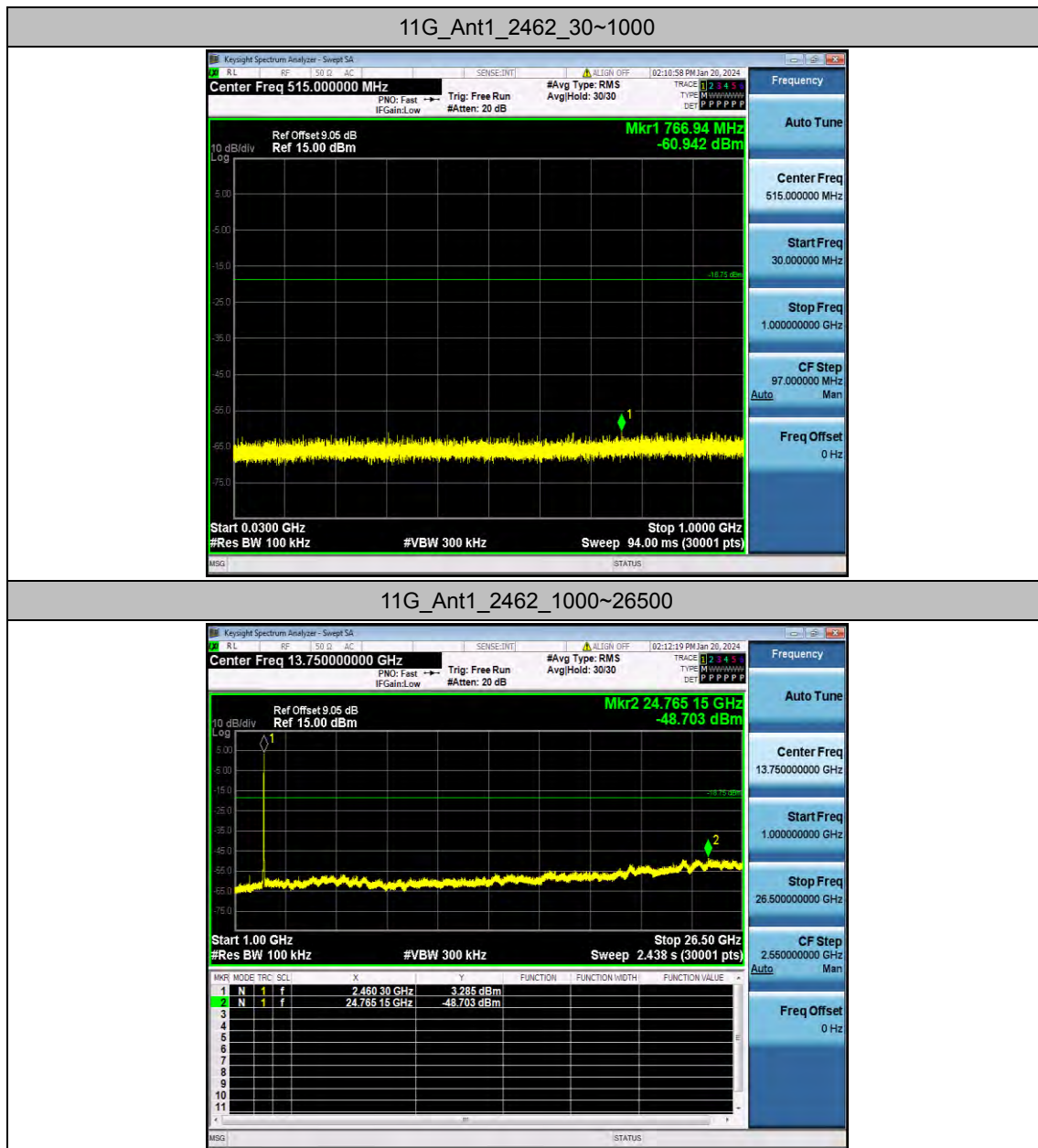


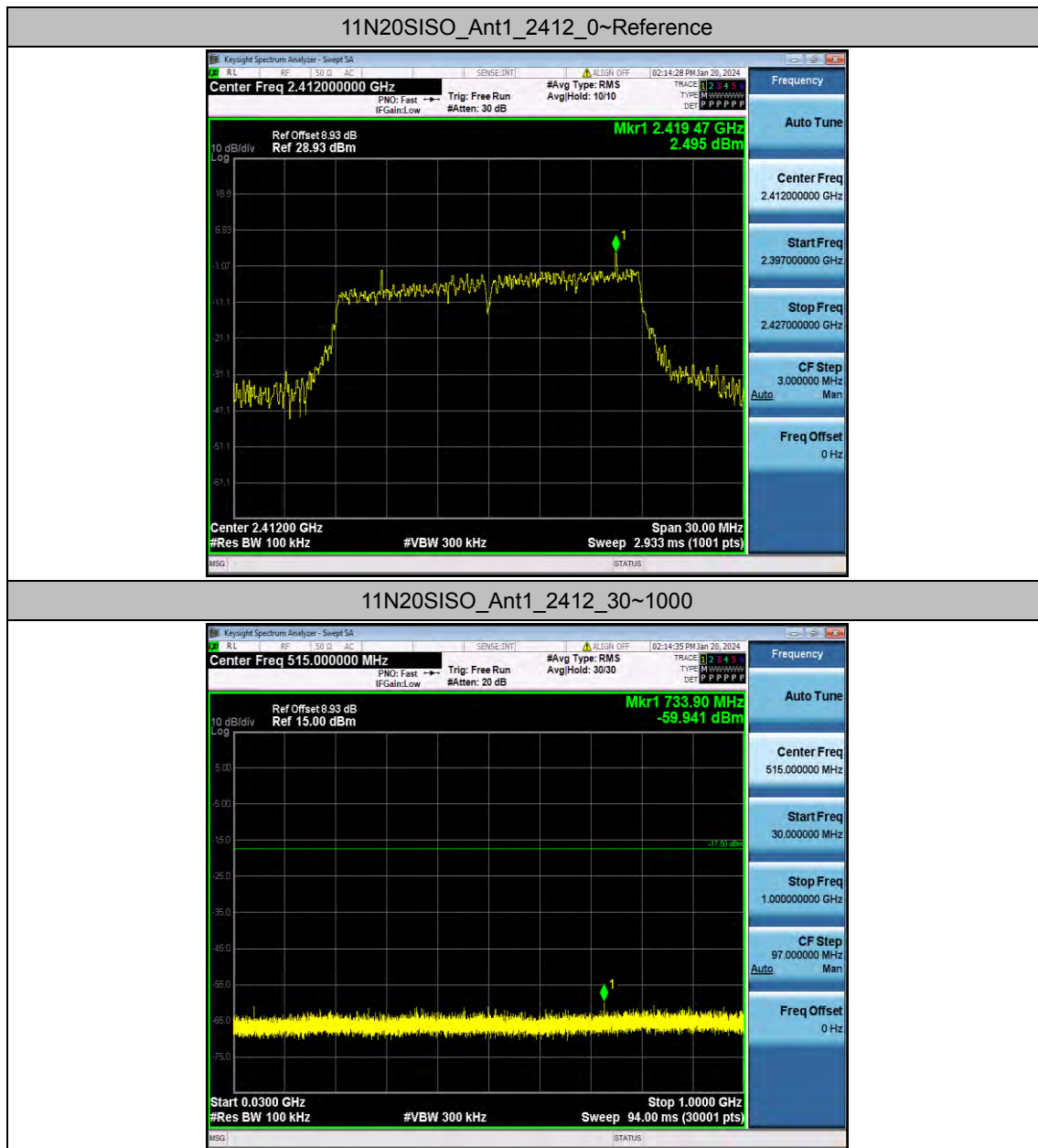




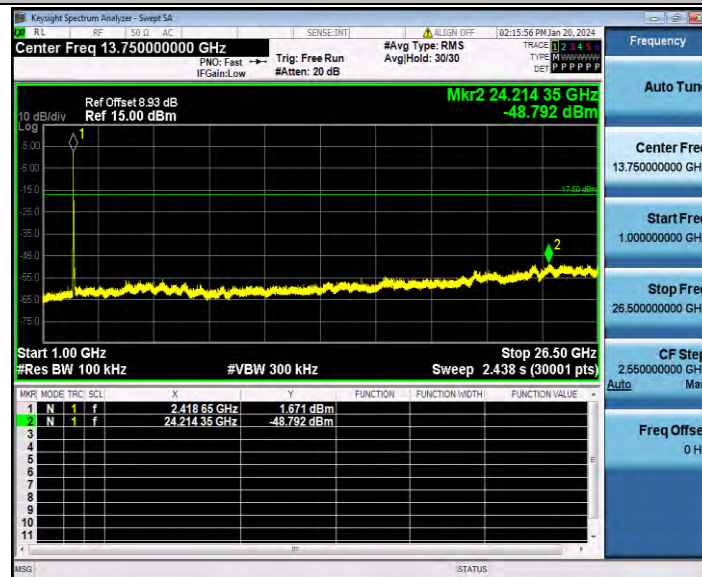






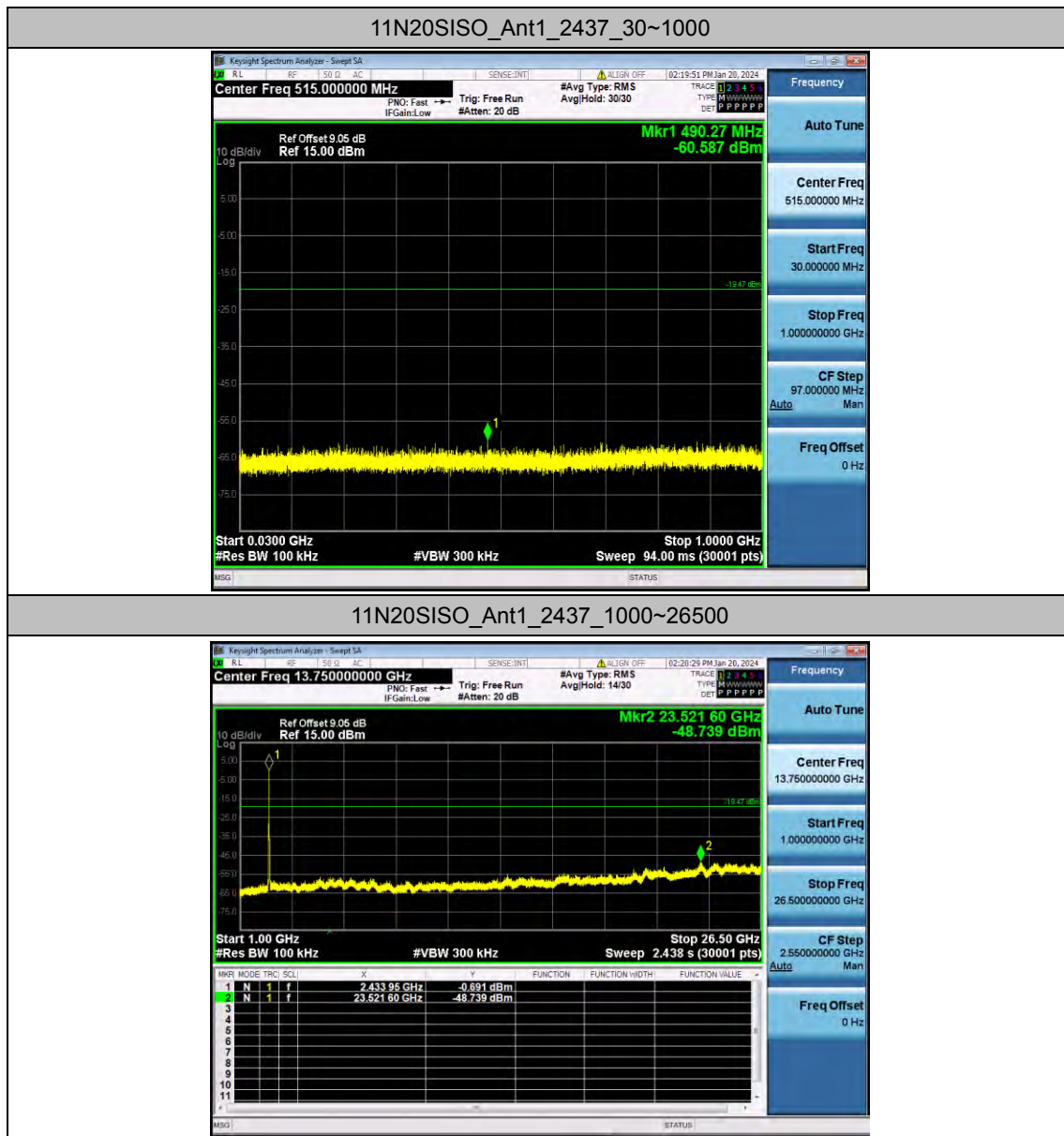


11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference

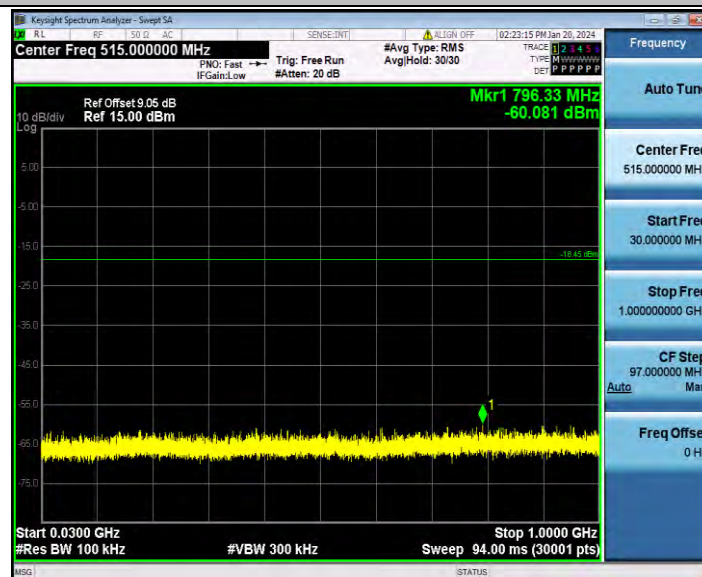


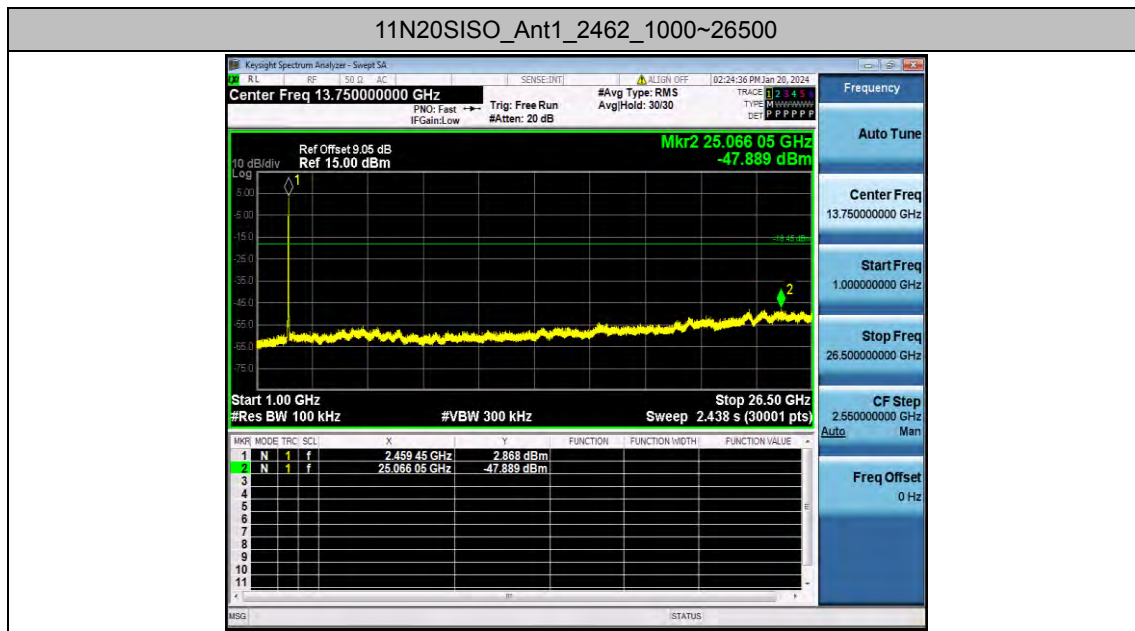


11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000





Appendix C.7: Emissions in Restricted Bands

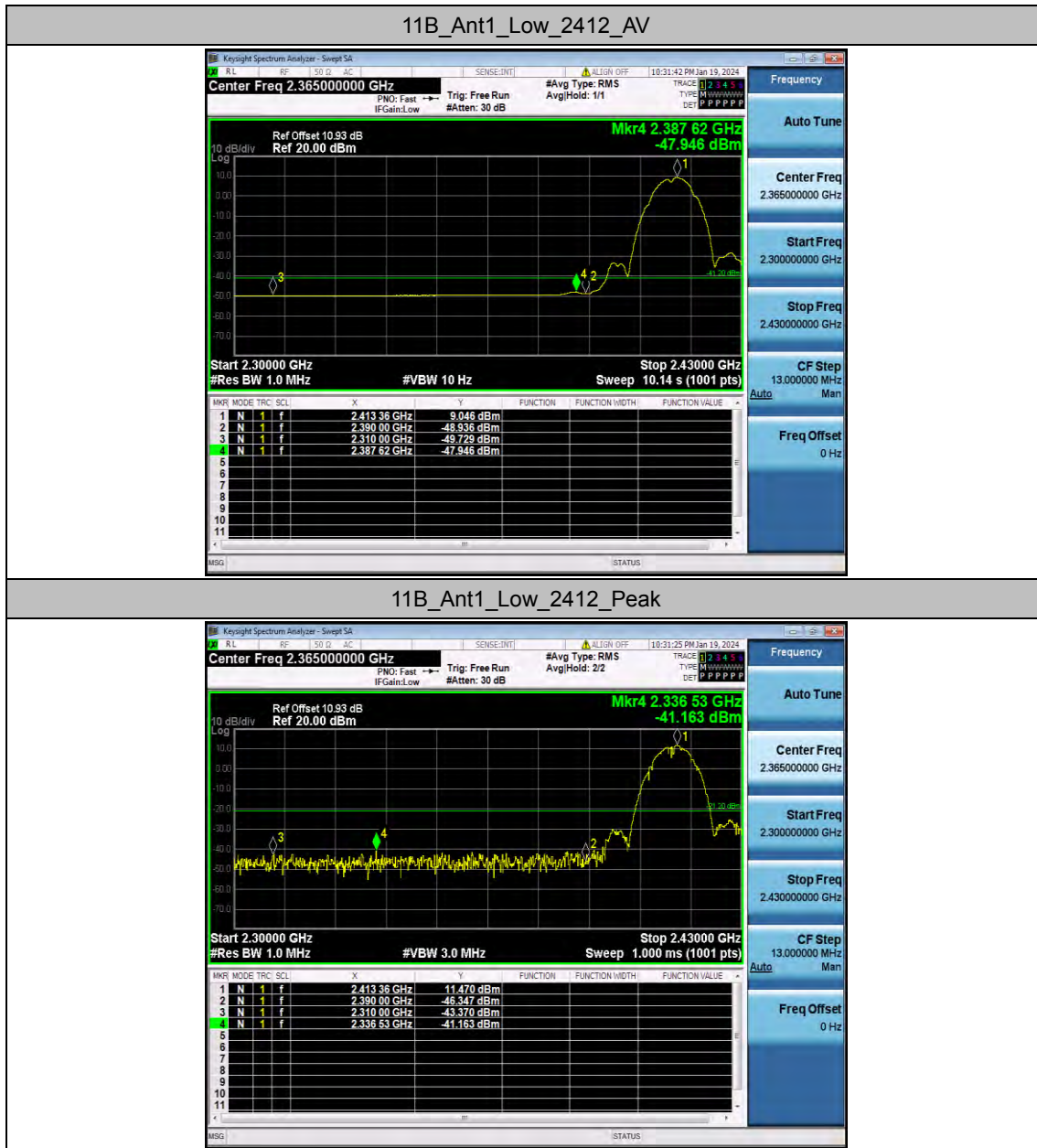
Test Result

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	-49.73	≤-41.20	45.47	≤54	PASS
				AV	2387.620	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2390.000	-48.94	≤-41.20	46.26	≤54	PASS
				Peak	2310.000	-43.37	≤-21.20	51.83	≤74	PASS
				Peak	2336.530	-41.16	≤-21.20	54.04	≤74	PASS
				Peak	2390.000	-46.35	≤-21.20	48.85	≤74	PASS
		High	2462	AV	2483.500	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2483.560	-48.67	≤-41.20	46.53	≤54	PASS
				AV	2500.000	-49.04	≤-41.20	46.16	≤54	PASS
				Peak	2483.500	-48.15	≤-21.20	47.05	≤74	PASS
				Peak	2484.330	-41.85	≤-21.20	53.35	≤74	PASS
				Peak	2500.000	-48.97	≤-21.20	46.23	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.71	≤-41.20	45.49	≤54	PASS
				AV	2389.960	-44.11	≤-41.20	51.09	≤54	PASS
				AV	2390.000	-44.11	≤-41.20	51.09	≤54	PASS
				Peak	2310.000	-48.91	≤-21.20	46.29	≤74	PASS
				Peak	2389.960	-36.45	≤-21.20	58.75	≤74	PASS
				Peak	2390.000	-36.45	≤-21.20	58.75	≤74	PASS
		High	2462	AV	2483.500	-42.31	≤-41.20	52.89	≤54	PASS
				AV	2483.560	-42.62	≤-41.20	52.58	≤54	PASS
				AV	2500.000	-49.28	≤-41.20	45.92	≤54	PASS
				Peak	2483.500	-39.14	≤-21.20	56.06	≤74	PASS
				Peak	2483.670	-33.44	≤-21.20	61.76	≤74	PASS
				Peak	2500.000	-43.37	≤-21.20	51.83	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-50.2	≤-41.20	45.00	≤54	PASS
				AV	2389.960	-42.97	≤-41.20	52.23	≤54	PASS
				AV	2390.000	-42.97	≤-41.20	52.23	≤54	PASS
				Peak	2310.000	-46.61	≤-21.20	48.59	≤74	PASS
				Peak	2387.880	-34.4	≤-21.20	60.80	≤74	PASS
				Peak	2390.000	-39.37	≤-21.20	55.83	≤74	PASS
		High	2462	AV	2483.500	-42.56	≤-41.20	52.64	≤54	PASS
				AV	2483.560	-42.86	≤-41.20	52.34	≤54	PASS
				AV	2500.000	-49.11	≤-41.20	46.09	≤54	PASS
				Peak	2483.500	-40.89	≤-21.20	54.31	≤74	PASS
				Peak	2483.560	-36.54	≤-21.20	58.66	≤74	PASS
				Peak	2500.000	-45.74	≤-21.20	49.46	≤74	PASS

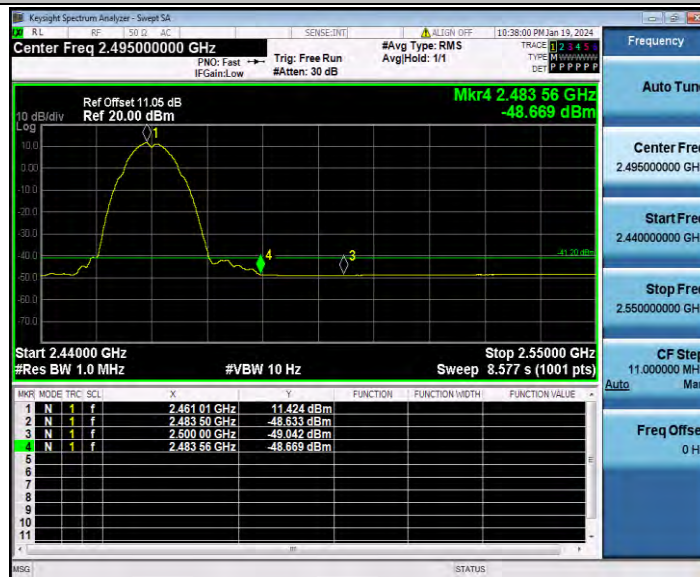
Note:

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.

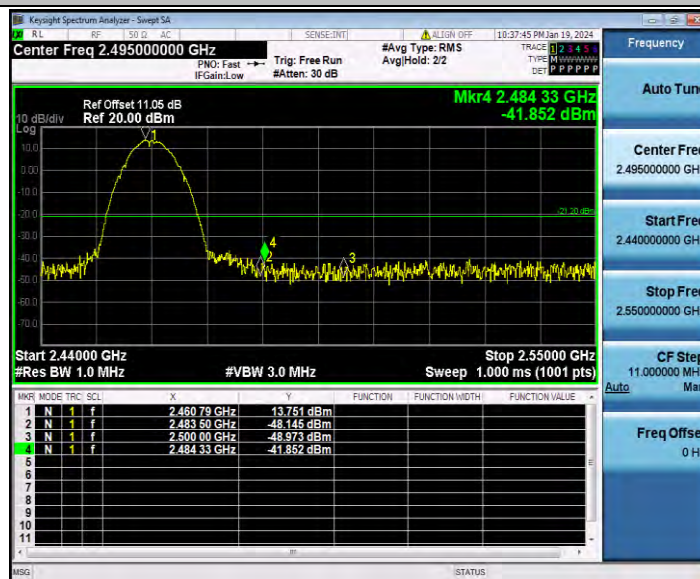
Test Graphs

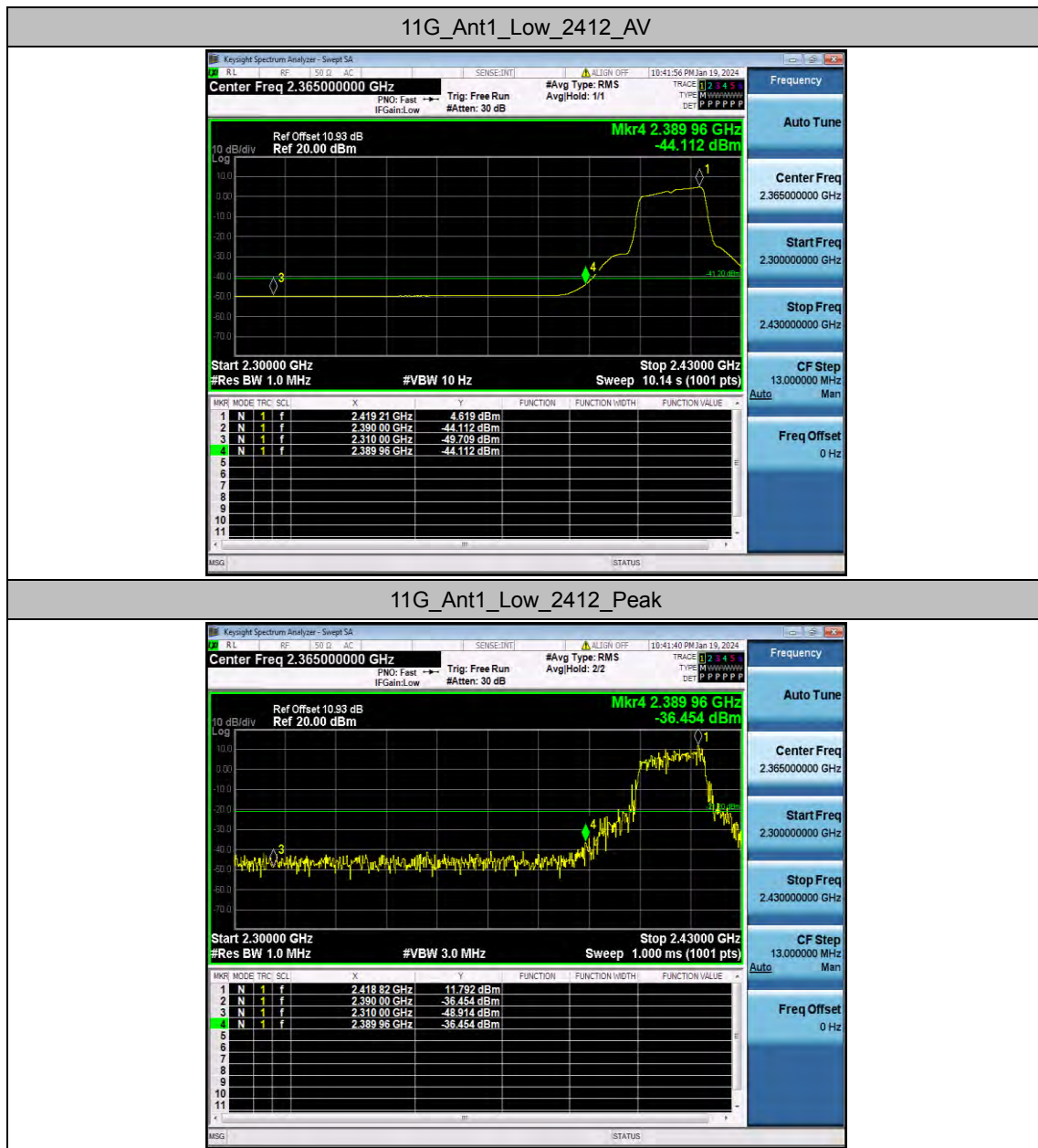


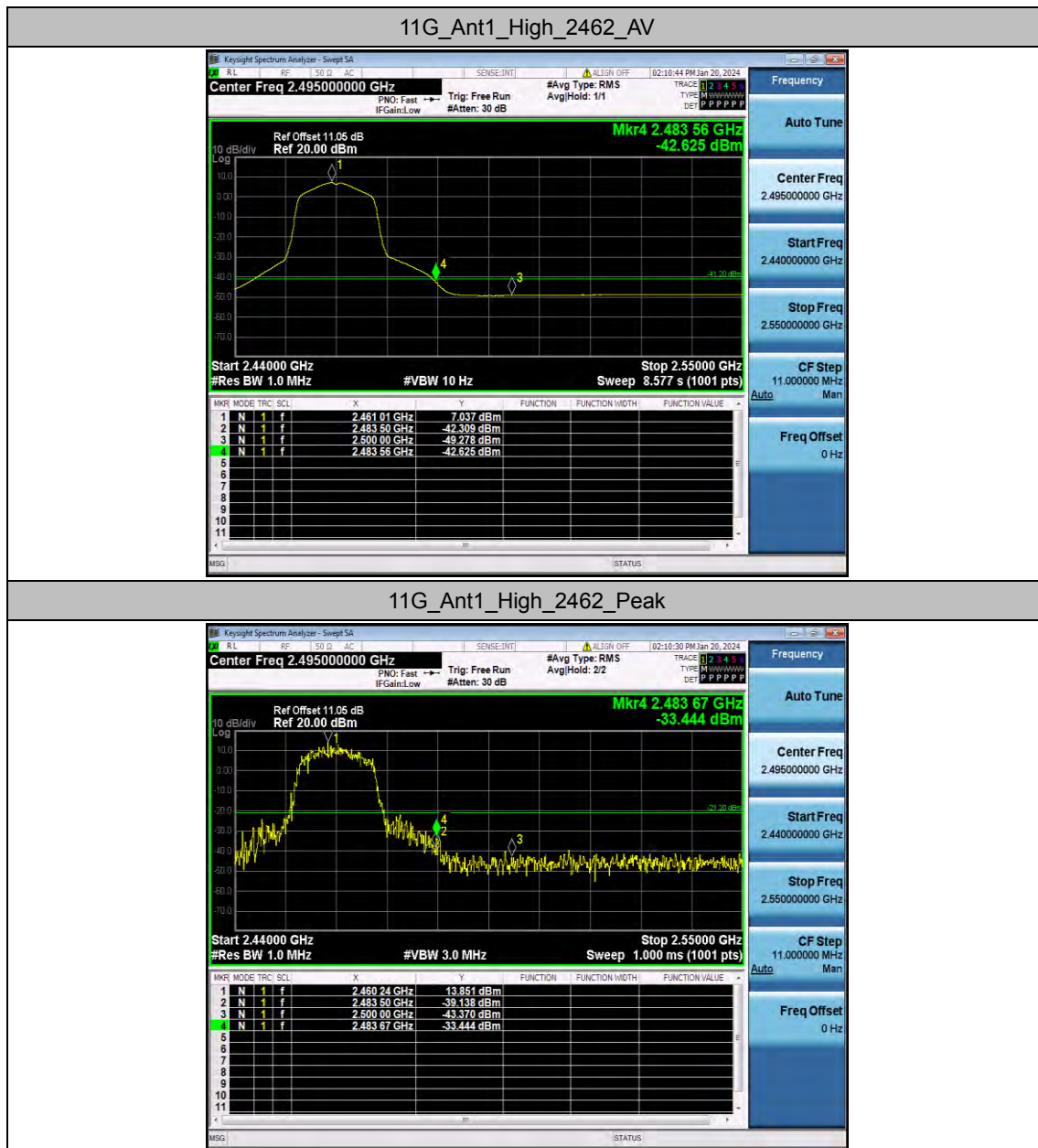
11B_Ant1_High_2462_AV

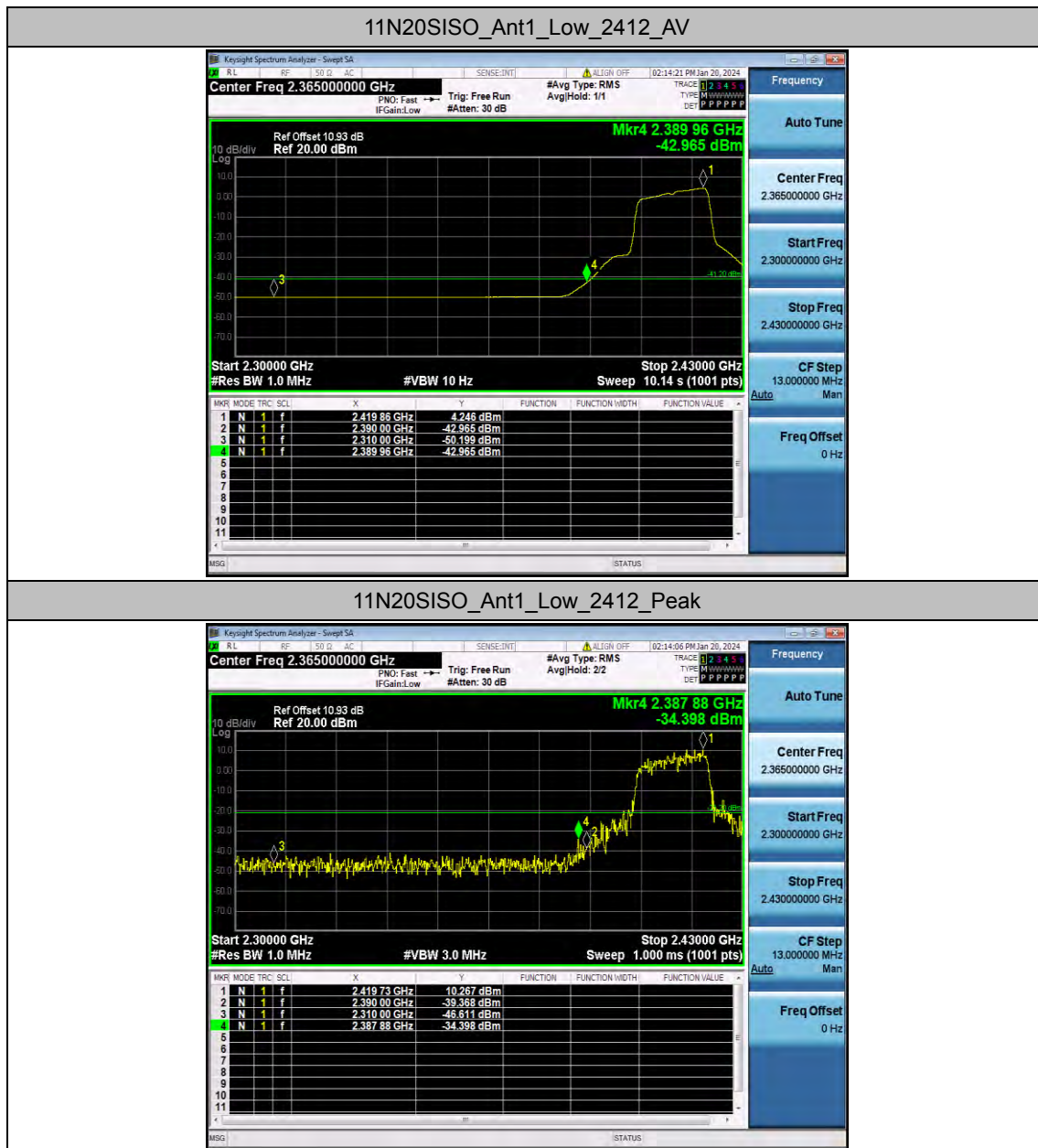


11B_Ant1_High_2462_Peak

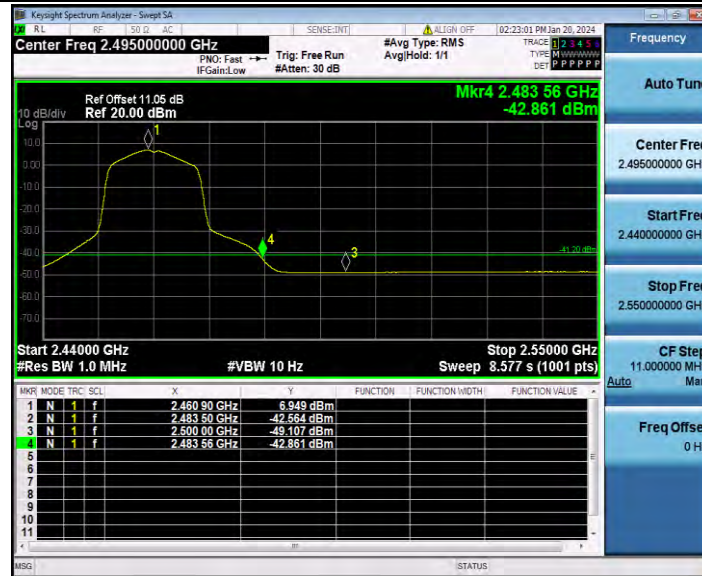








11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

