

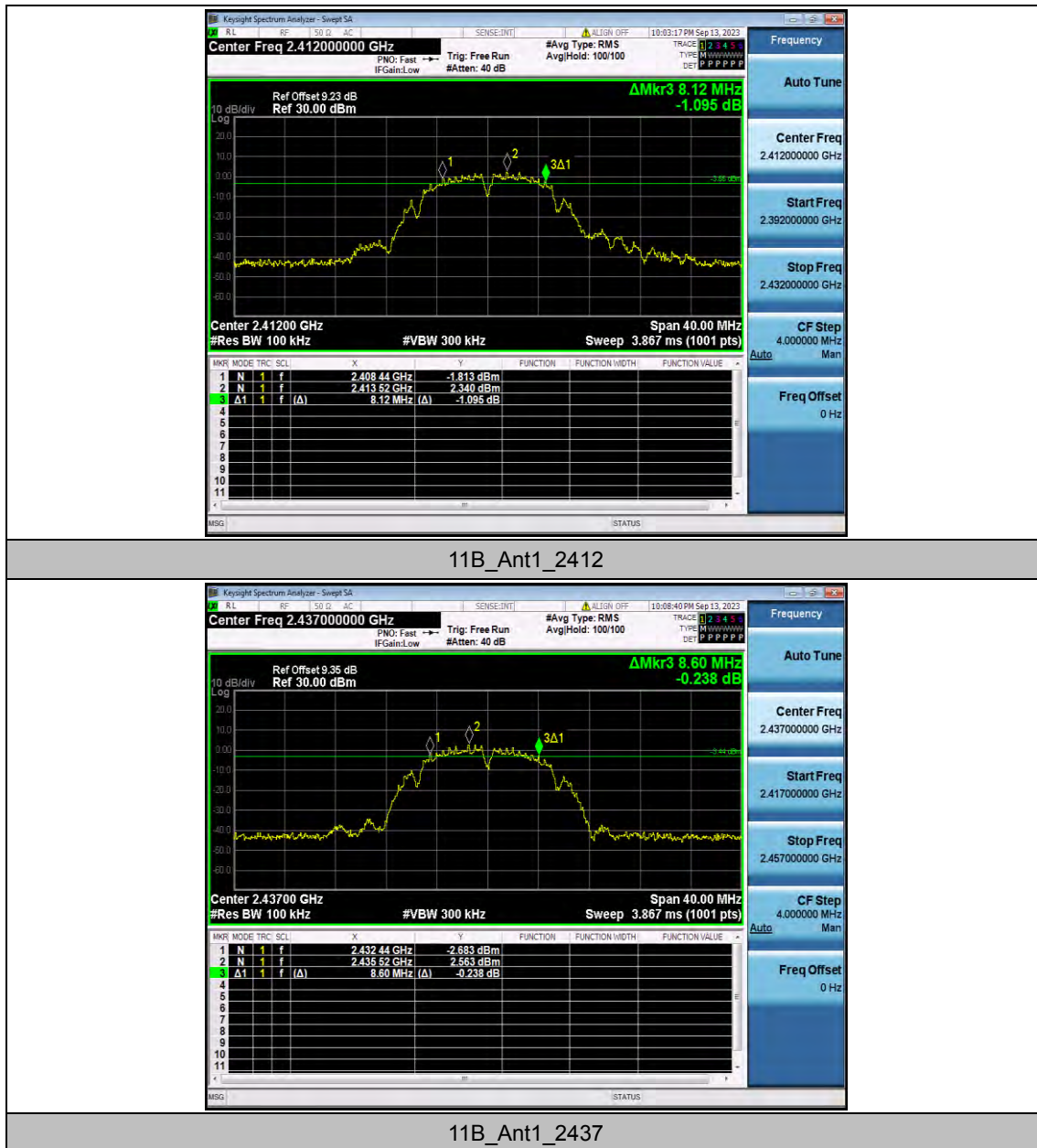
Case No. : <u>GTS20230822007-1-3</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.9.13</u>	Test Engineer: <u>Evan ouyang</u>

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	8.120	2408.440	2416.560	0.5	PASS
		2437	8.600	2432.440	2441.040	0.5	PASS
		2462	8.600	2457.960	2466.560	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	15.720	2454.440	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.440	2420.640	0.5	PASS
		2437	16.360	2428.400	2444.760	0.5	PASS
		2462	16.200	2454.440	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	33.840	2419.400	2453.240	0.5	PASS
		2452	36.240	2434.000	2470.240	0.5	PASS

Test Graphs

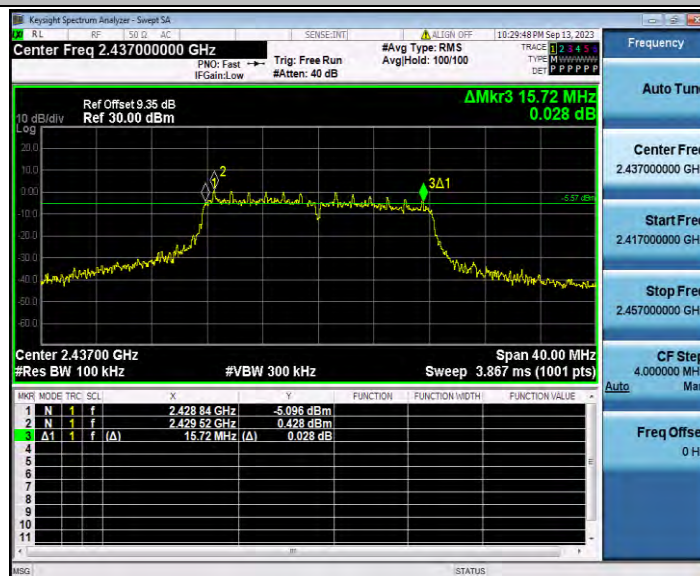




11B_Ant1_2462



11G_Ant1_2412



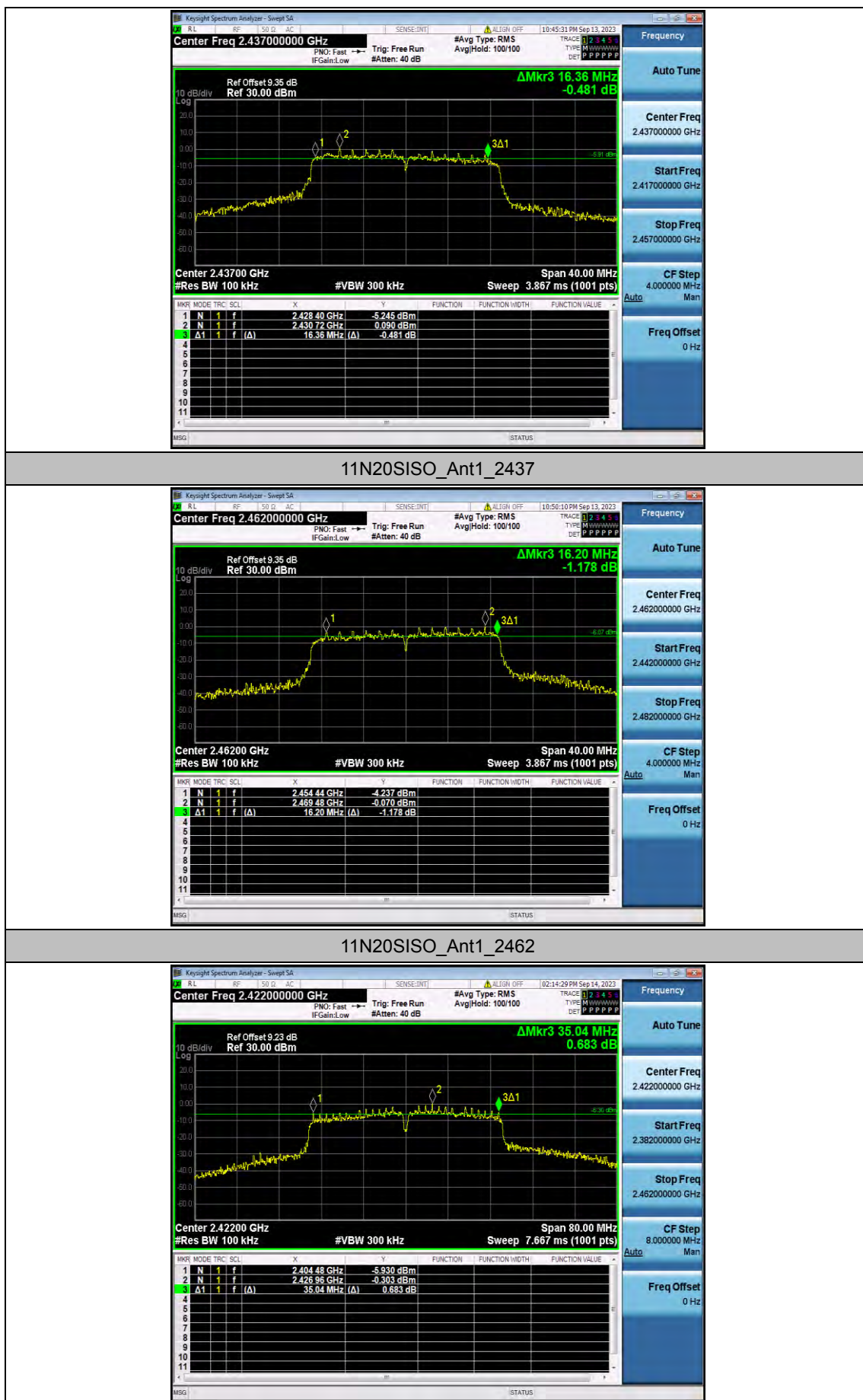
11G_Ant1_2437



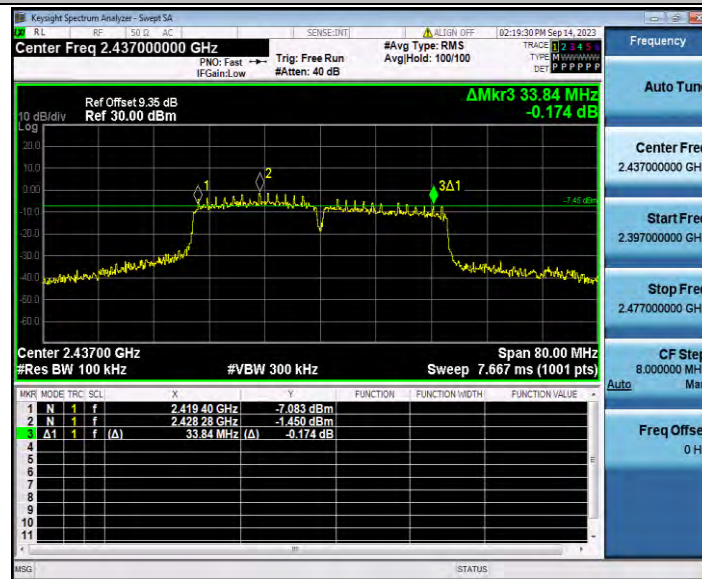
11G_Ant1_2462



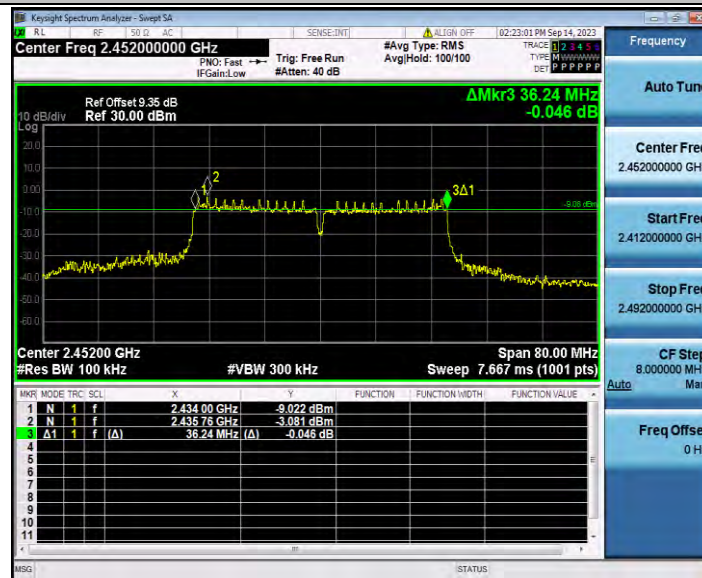
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix C.2: Occupied Channel Bandwidth

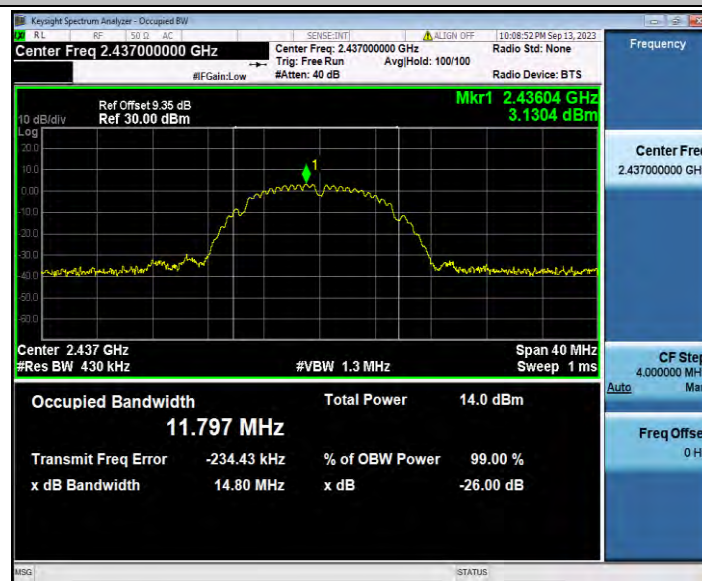
Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.629	2406.467	2418.096	---	---
		2437	11.797	2430.867	2442.664	---	---
		2462	11.813	2456.291	2468.104	---	---
11G	Ant1	2412	20.408	2403.770	2424.178	---	---
		2437	16.777	2428.422	2445.199	---	---
		2462	16.914	2453.725	2470.639	---	---
11N20SISO	Ant1	2412	20.783	2403.266	2424.049	---	---
		2437	17.760	2427.959	2445.719	---	---
		2462	17.819	2453.249	2471.068	---	---
11N40SISO	Ant1	2422	36.883	2404.057	2440.940	---	---
		2437	36.238	2418.709	2454.947	---	---
		2452	37.076	2433.288	2470.364	---	---

Test Graphs



11B_Ant1_2412



11B_Ant1_2437



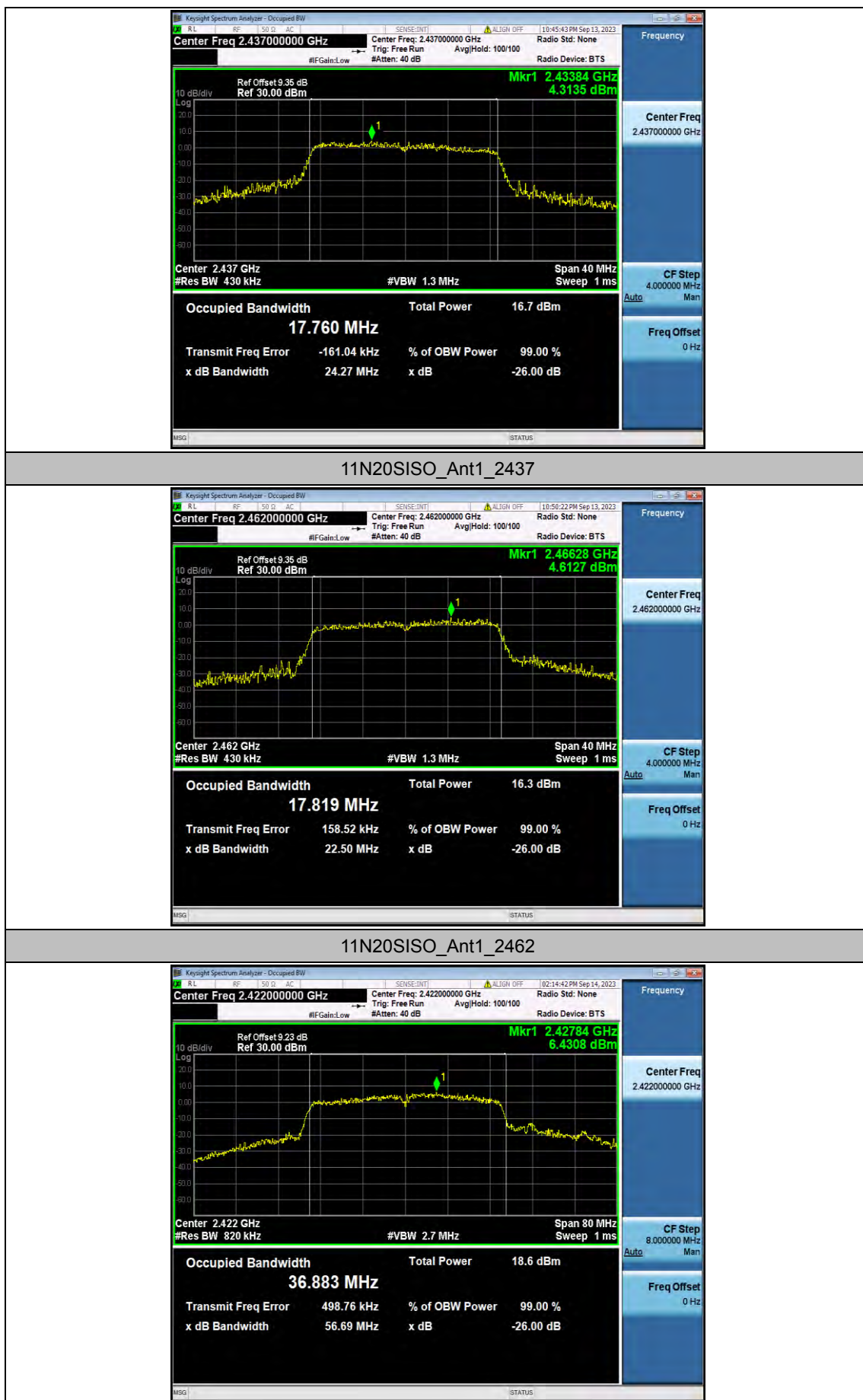
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix C.3: Maximum conducted output power

Test Result Peak

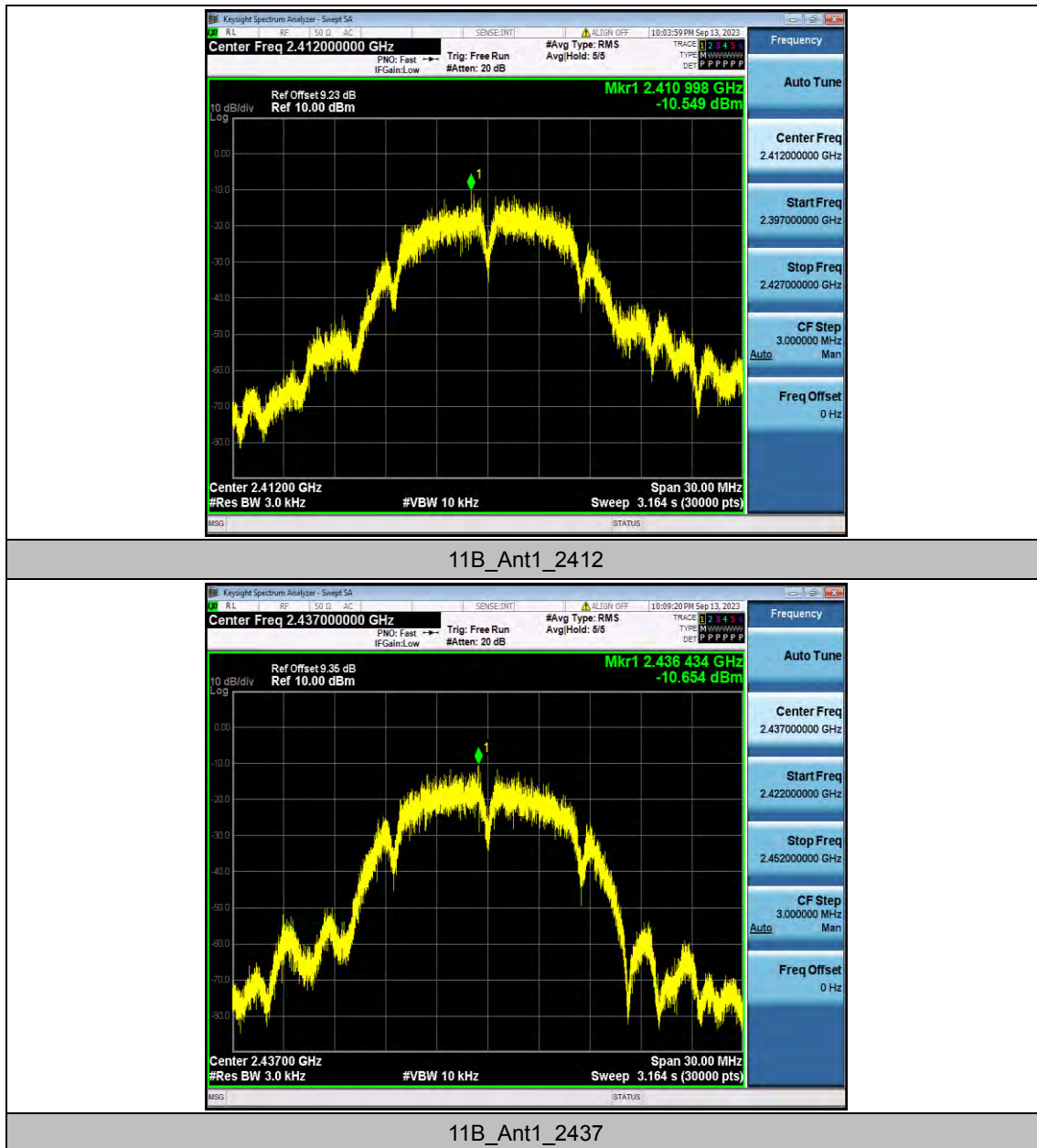
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.21	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	14.27	≤30.00	PASS
11G	Ant1	2412	18.02	≤30.00	PASS
		2437	17.49	≤30.00	PASS
		2462	17.15	≤30.00	PASS
11N20SISO	Ant1	2412	18.15	≤30.00	PASS
		2437	17.87	≤30.00	PASS
		2462	17.38	≤30.00	PASS
11N40SISO	Ant1	2422	18.82	≤30.00	PASS
		2437	17.76	≤30.00	PASS
		2452	16.93	≤30.00	PASS

Appendix C.4: Maximum power spectral density

Test Result

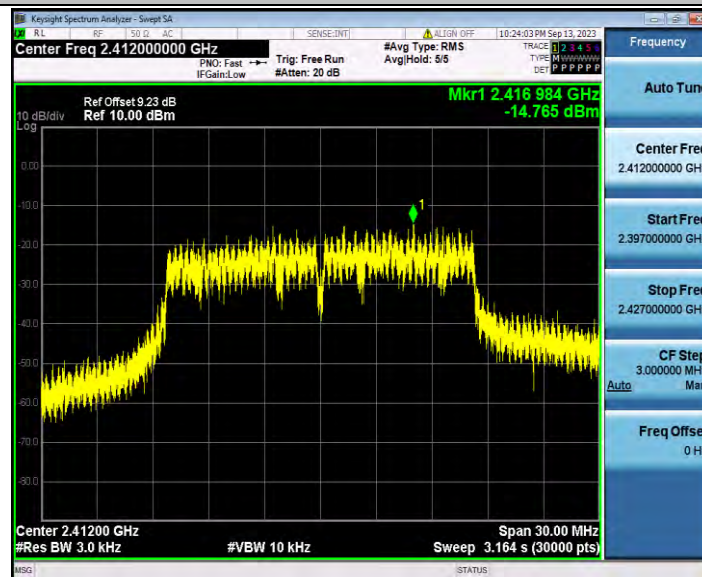
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.55	≤8.00	PASS
		2437	-10.65	≤8.00	PASS
		2462	-11.78	≤8.00	PASS
11G	Ant1	2412	-14.77	≤8.00	PASS
		2437	-16	≤8.00	PASS
		2462	-15.9	≤8.00	PASS
11N20SISO	Ant1	2412	-14.32	≤8.00	PASS
		2437	-14.93	≤8.00	PASS
		2462	-14.53	≤8.00	PASS
11N40SISO	Ant1	2422	-15.88	≤8.00	PASS
		2437	-16.33	≤8.00	PASS
		2452	-18.48	≤8.00	PASS

Test Graphs

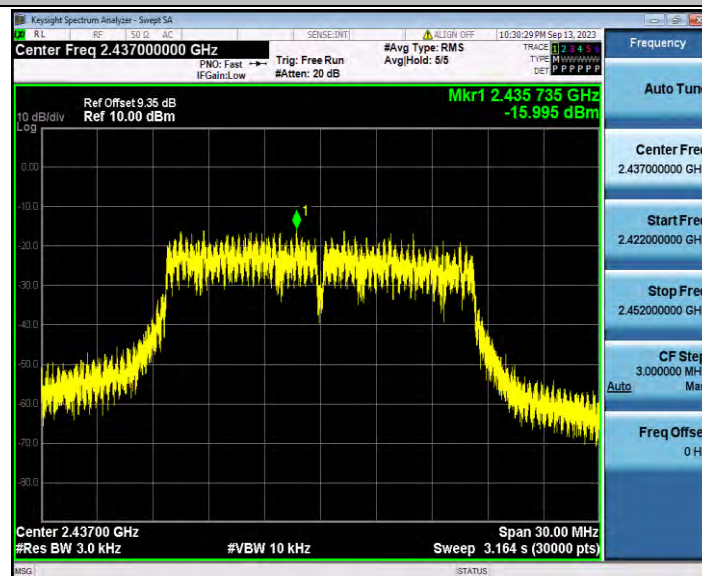




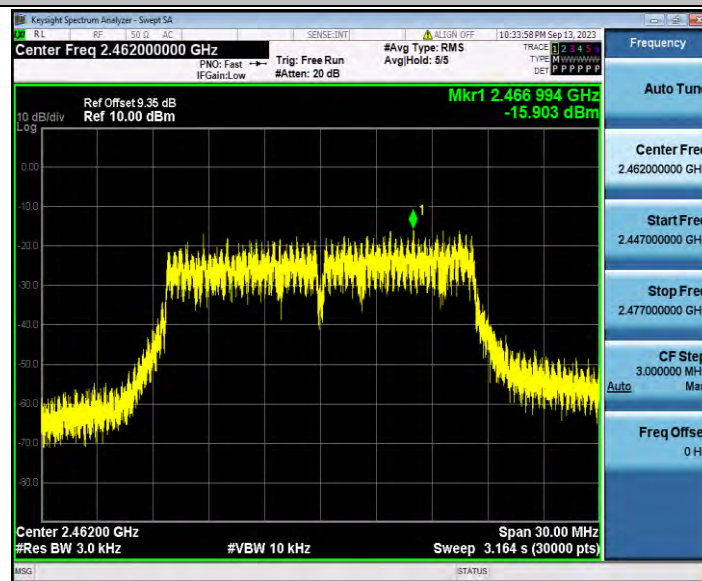
11B_Ant1_2462



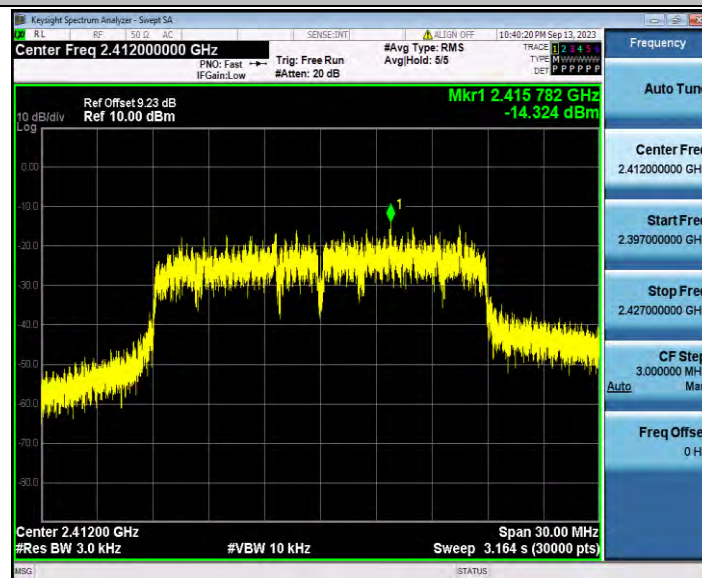
11G_Ant1_2412



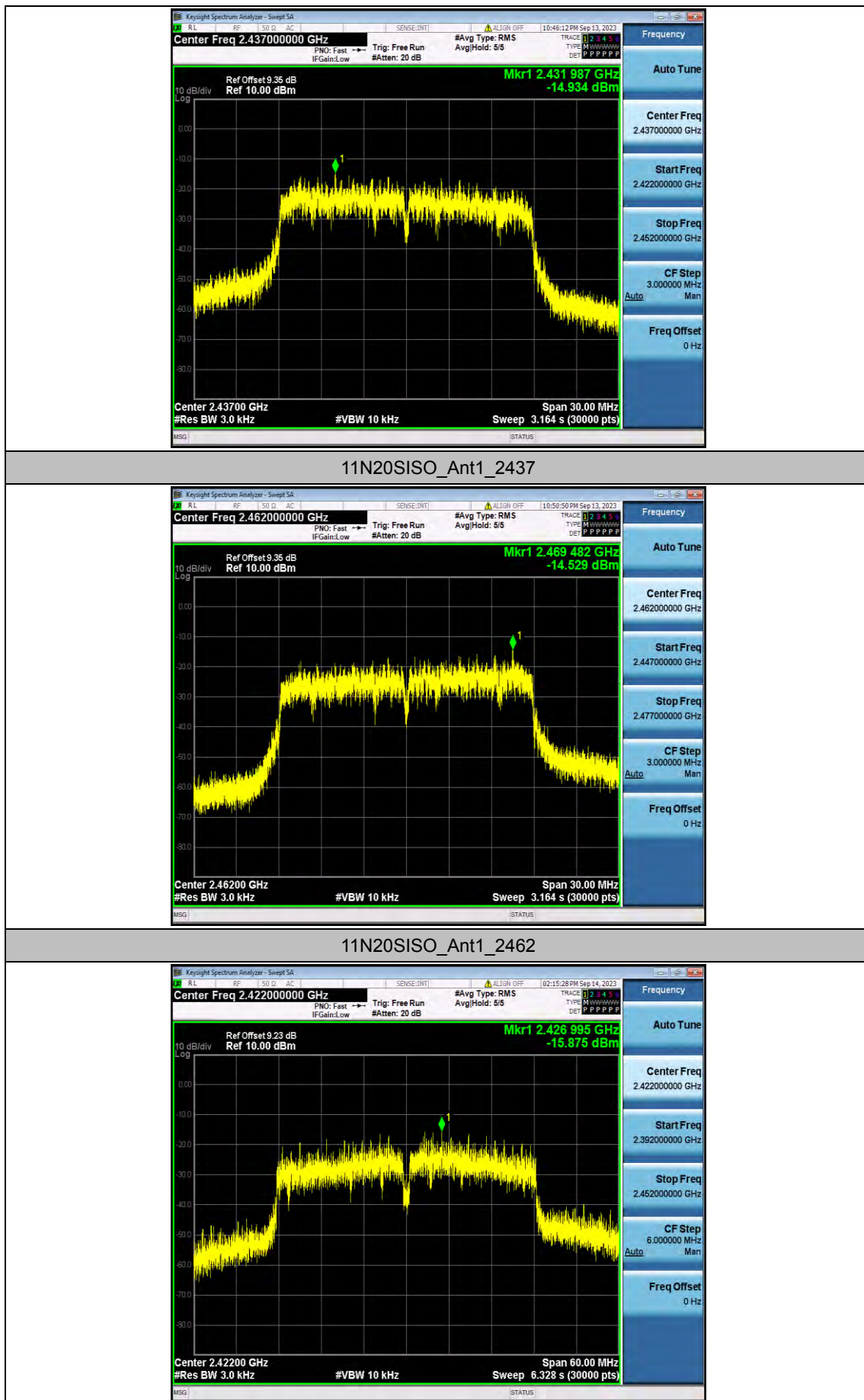
11G_Ant1_2437



11G_Ant1_2462



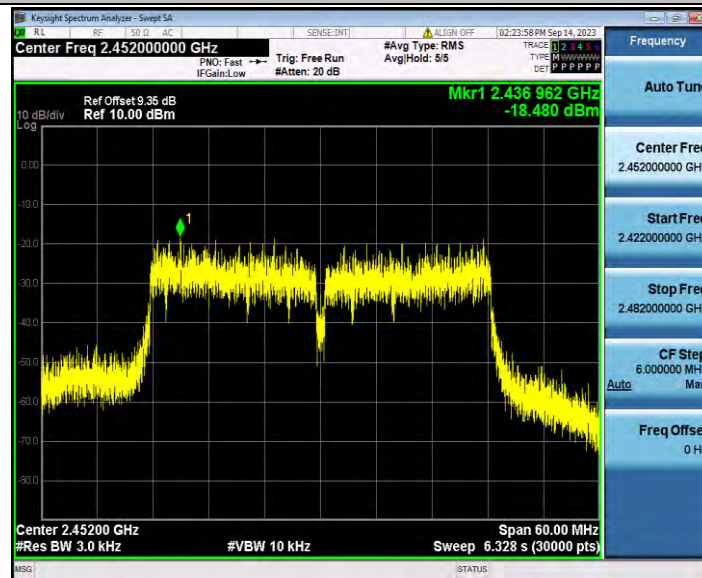
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



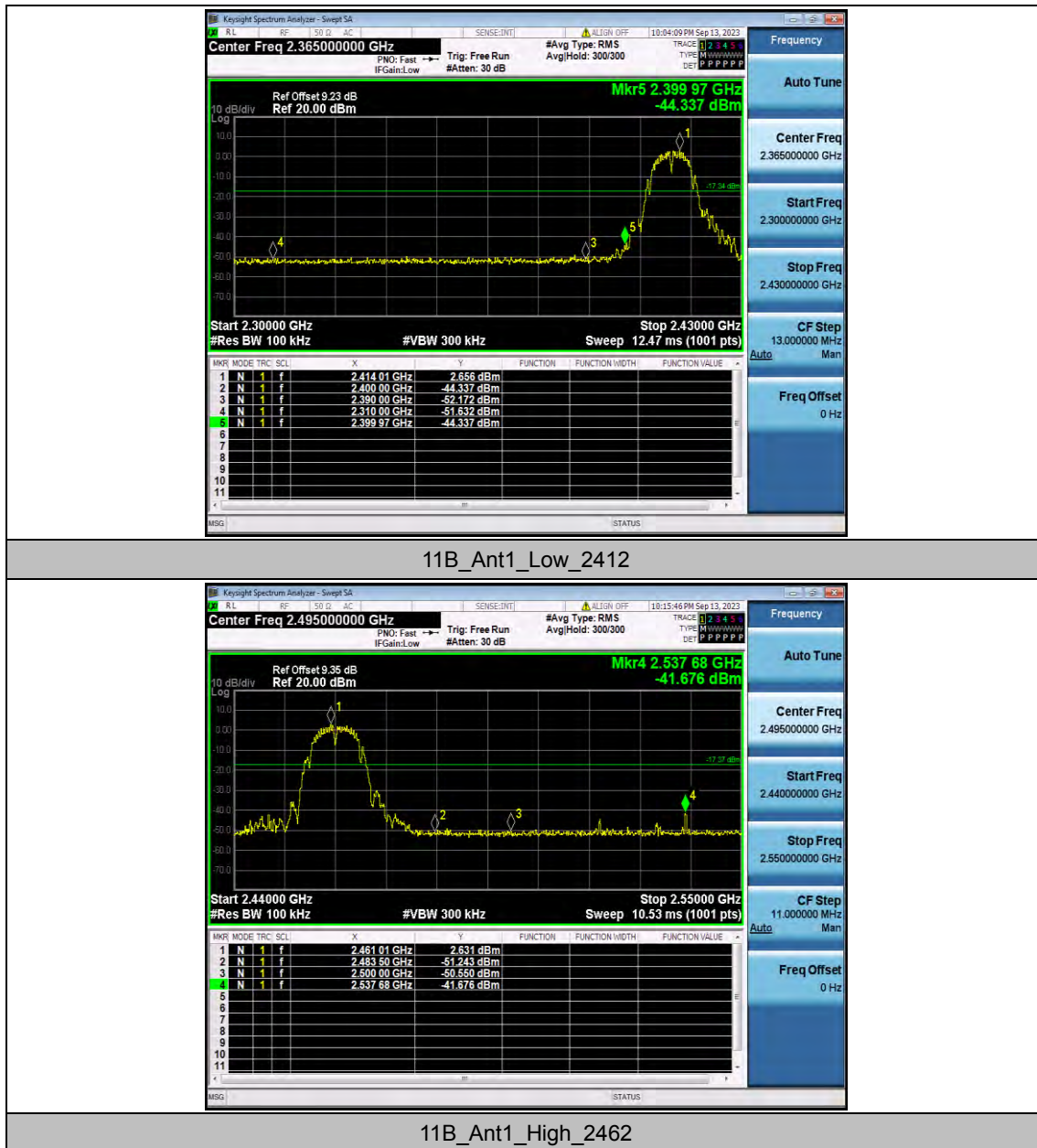
11N40SISO_Ant1_2452

Appendix C.5: Band edge measurements

Test Result

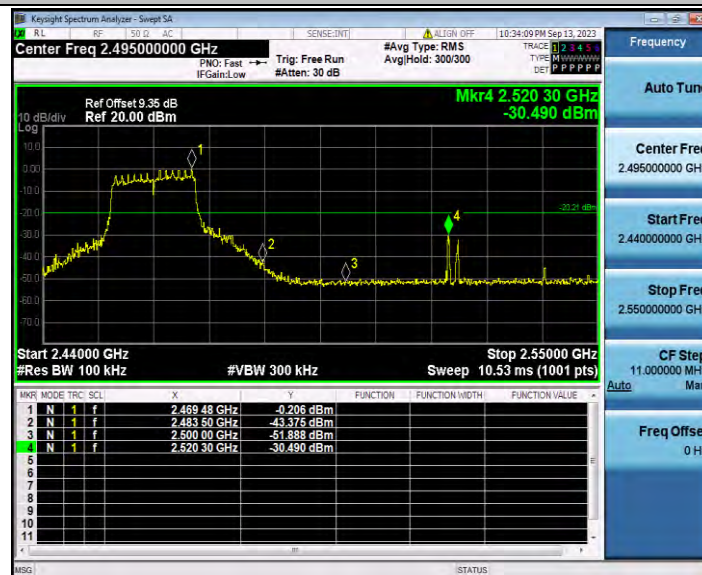
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.66	-44.34	≤ -17.34	PASS
		High	2462	2.63	-41.68	≤ -17.37	PASS
11G	Ant1	Low	2412	0.32	-29.26	≤ -19.68	PASS
		High	2462	-0.21	-30.49	≤ -20.21	PASS
11N20SISO	Ant1	Low	2412	0.31	-29.81	≤ -19.69	PASS
		High	2462	0.01	-31.33	≤ -19.99	PASS
11N40SISO	Ant1	Low	2422	-0.35	-29.99	≤ -20.35	PASS
		High	2452	-3.60	-39.28	≤ -23.6	PASS

Test Graphs

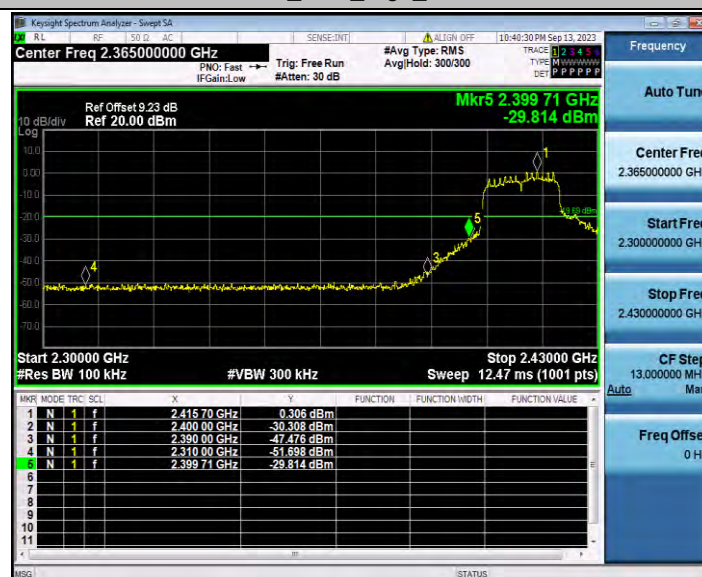




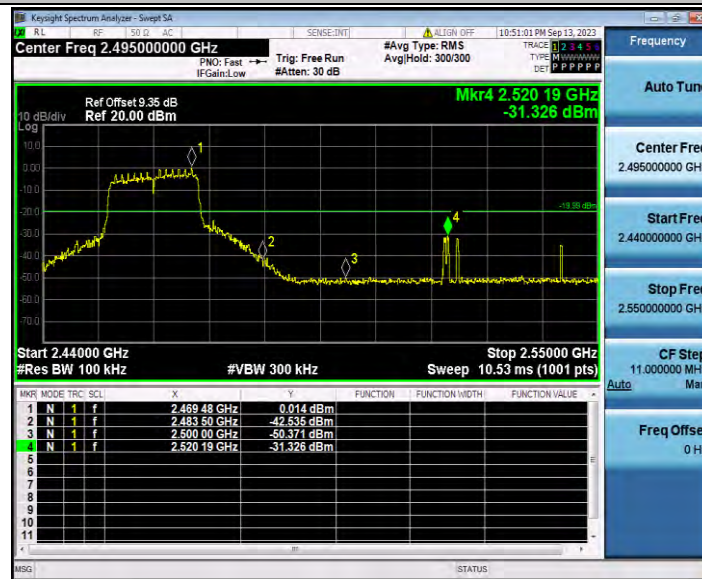
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



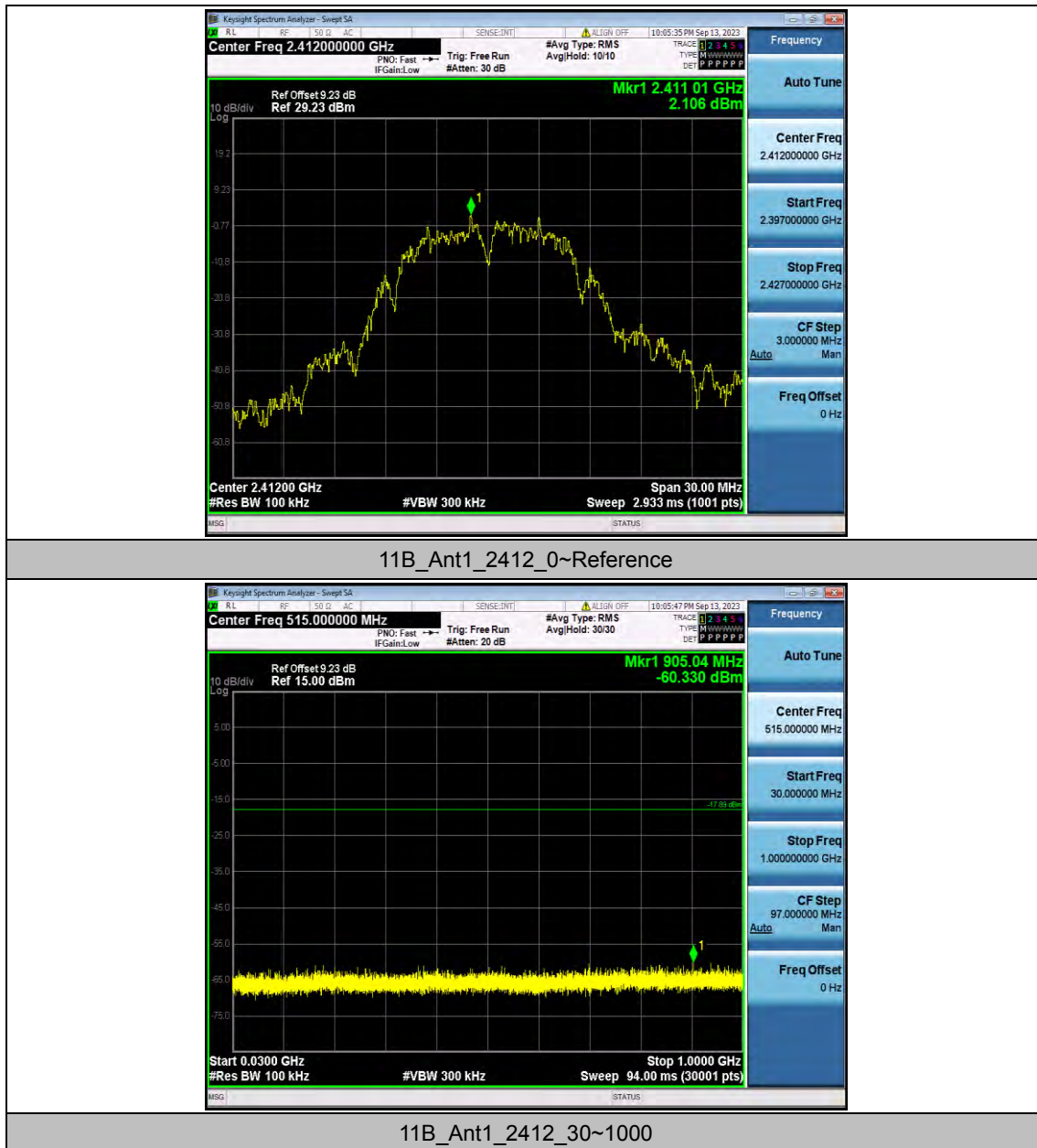
11N40SISO_Ant1_High_2452

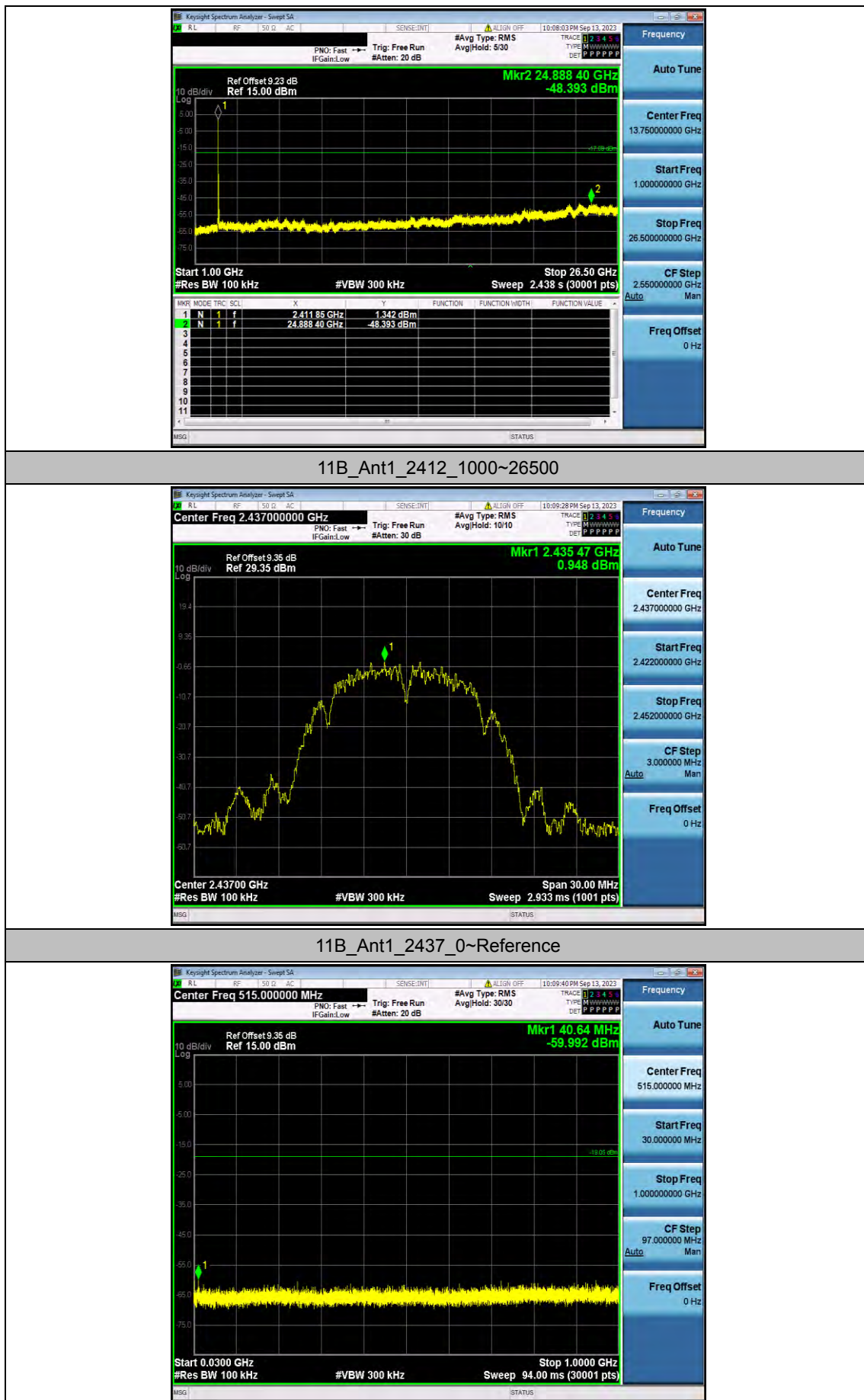
Appendix C.6: Conducted Spurious Emission

Test Result

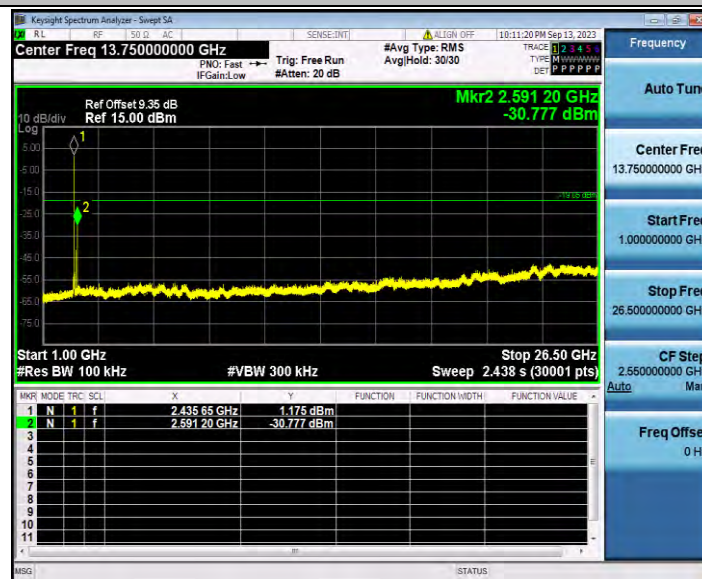
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-60.33	≤ -17.89	PASS
			1000~26500	2.11	-48.39	≤ -17.89	PASS
		2437	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-59.99	≤ -19.05	PASS
			1000~26500	0.95	-30.78	≤ -19.05	PASS
		2462	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-60.33	≤ -18.08	PASS
			1000~26500	1.92	-34.26	≤ -18.08	PASS
11G	Ant1	2412	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-60.21	≤ -20.51	PASS
			1000~26500	-0.51	-47.31	≤ -20.51	PASS
		2437	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-59.92	≤ -19.32	PASS
			1000~26500	0.68	-43.58	≤ -19.32	PASS
		2462	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-59.73	≤ -20.62	PASS
			1000~26500	-0.62	-47.82	≤ -20.62	PASS
11N20SISO	Ant1	2412	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-59.68	≤ -19.66	PASS
			1000~26500	0.34	-37.03	≤ -19.66	PASS
		2437	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-60.12	≤ -19.03	PASS
			1000~26500	0.97	-47.98	≤ -19.03	PASS
		2462	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-60	≤ -20.24	PASS
			1000~26500	-0.24	-47.47	≤ -20.24	PASS
11N40SISO	Ant1	2422	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-59.14	≤ -21.45	PASS
			1000~26500	-1.45	-31.81	≤ -21.45	PASS
		2437	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-60.59	≤ -21.99	PASS
			1000~26500	-1.99	-37.47	≤ -21.99	PASS
		2452	Reference	-3.67	-3.67	---	PASS
			30~1000	-3.67	-60.41	≤ -23.67	PASS
			1000~26500	-3.67	-47.16	≤ -23.67	PASS

Test Graphs





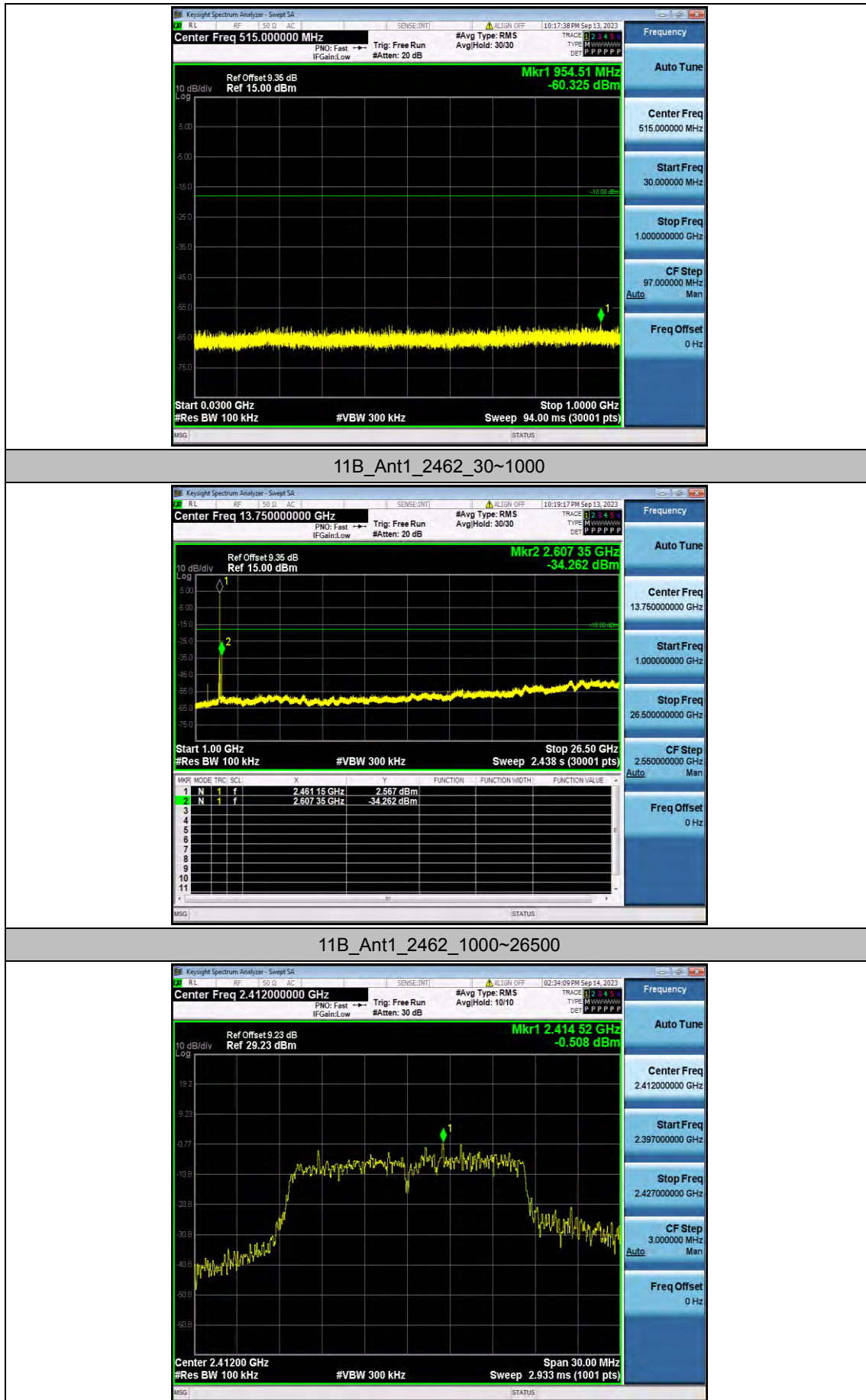
11B_Ant1_2437_30~1000



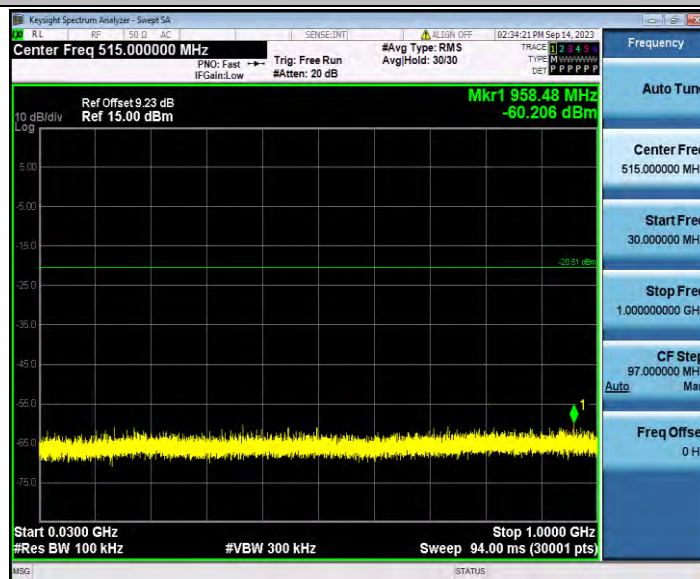
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



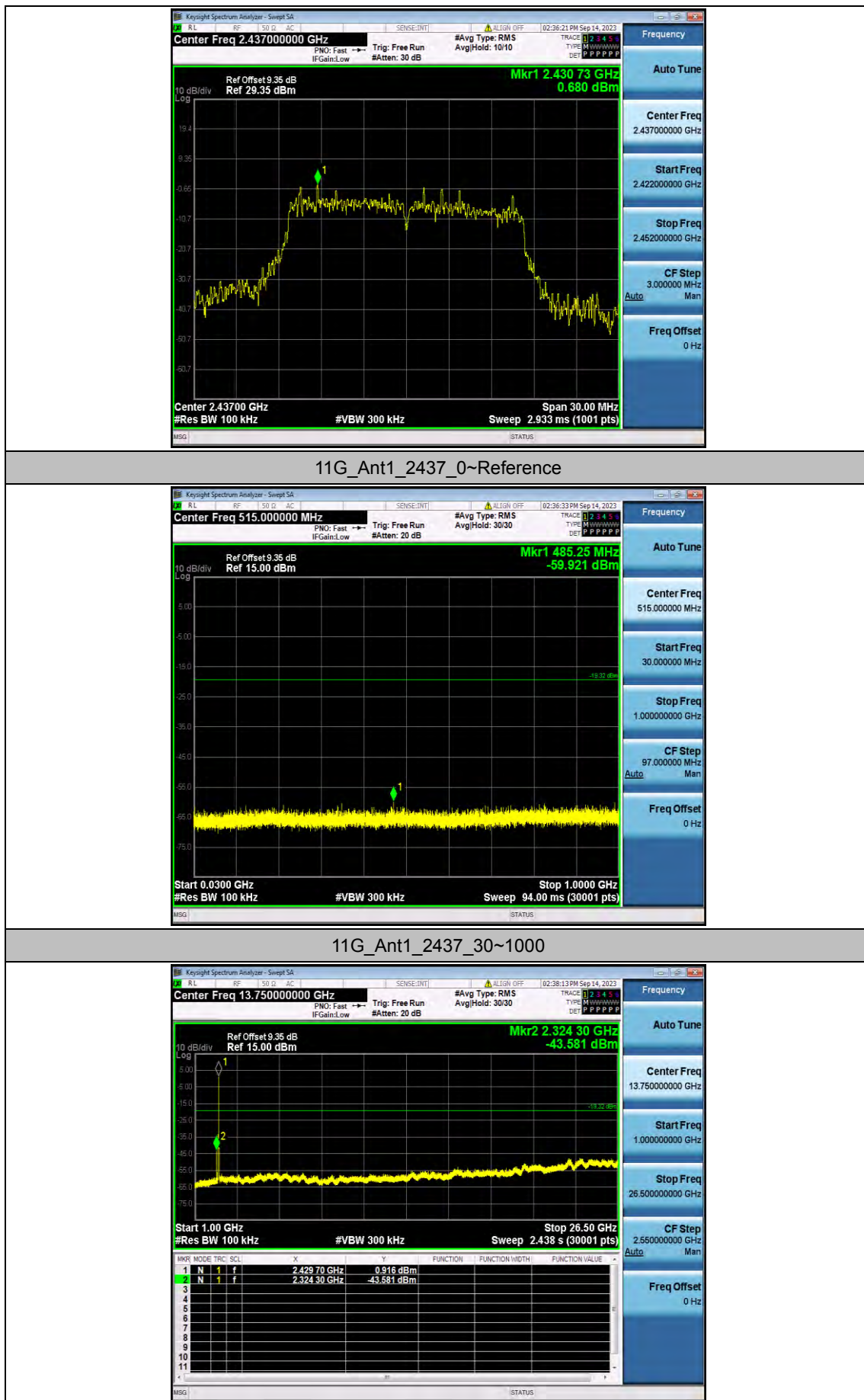
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



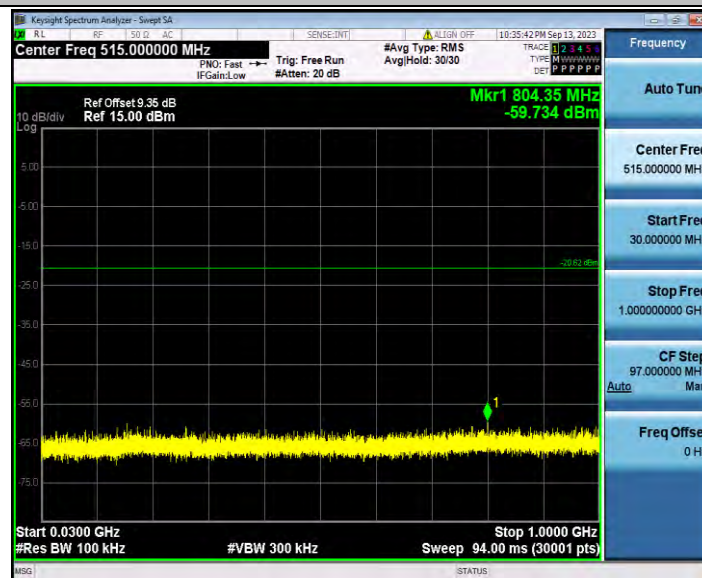
11G_Ant1_2412_1000~26500



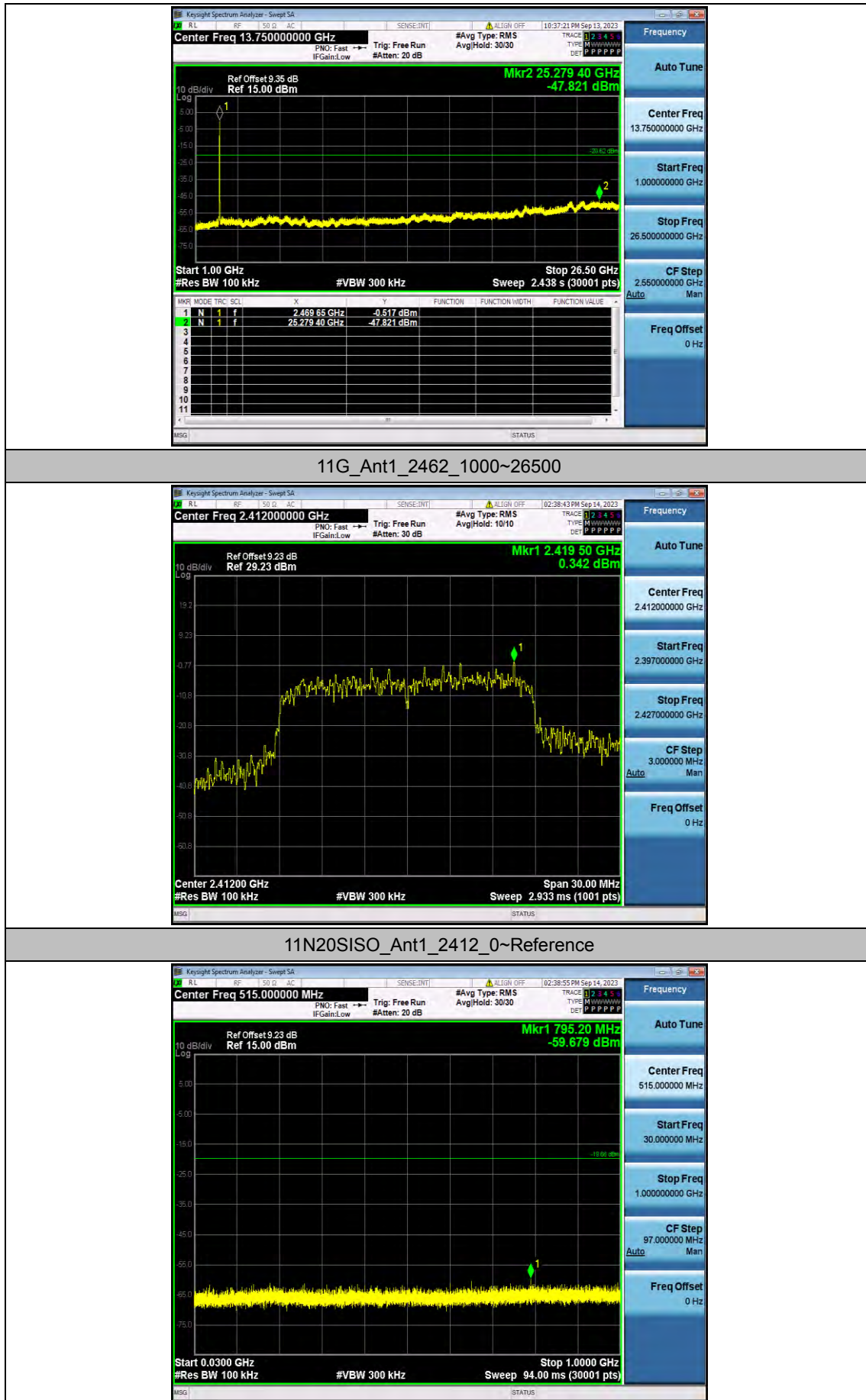
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



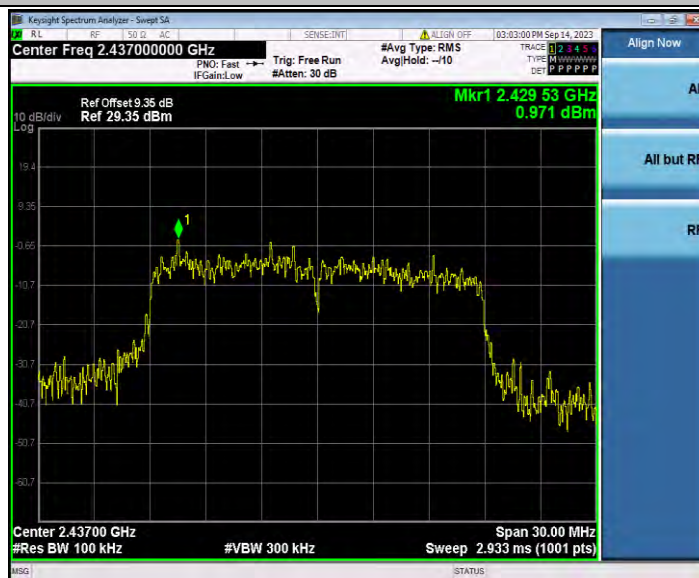
11G_Ant1_2462_30~1000



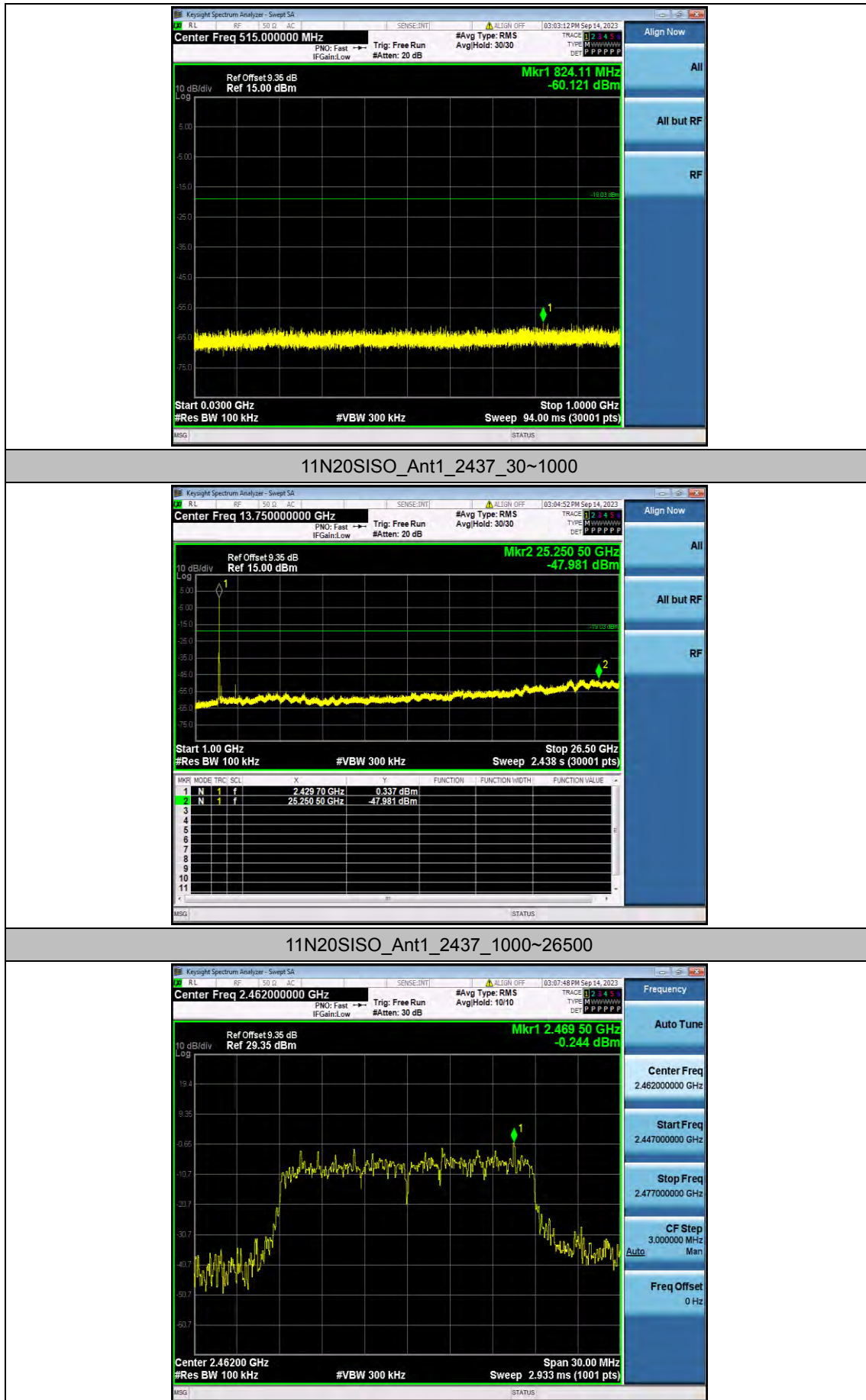
11N20SISO_Ant1_2412_30~1000



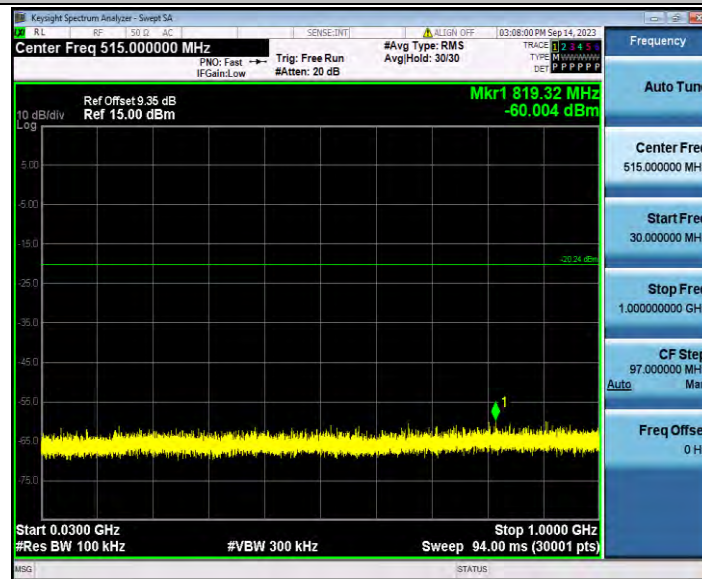
11N20SISO_Ant1_2412_1000~26500



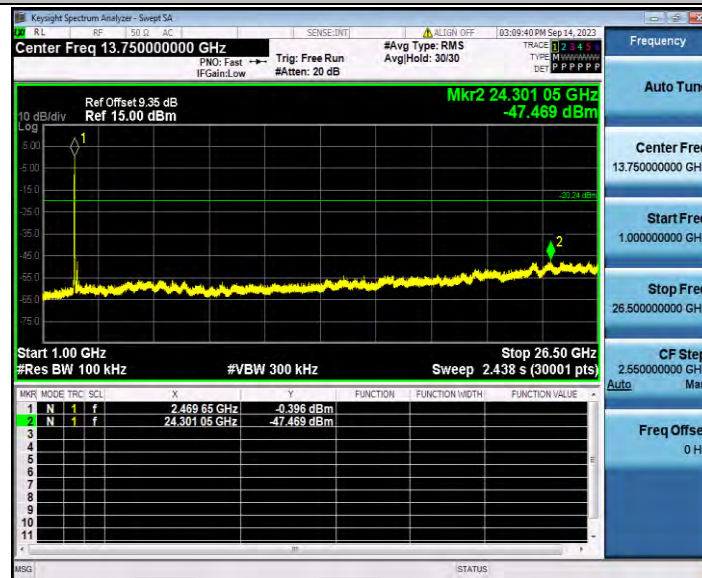
11N20SISO_Ant1_2437_0~Reference



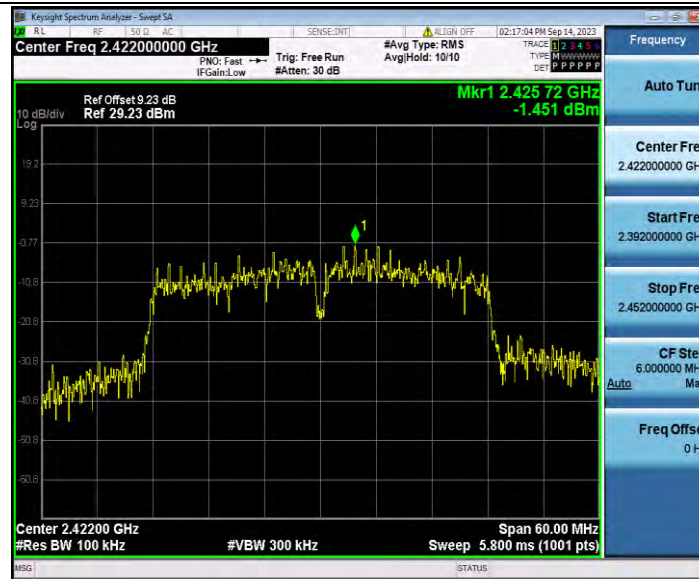
11N20SISO_Ant1_2462_0~Reference



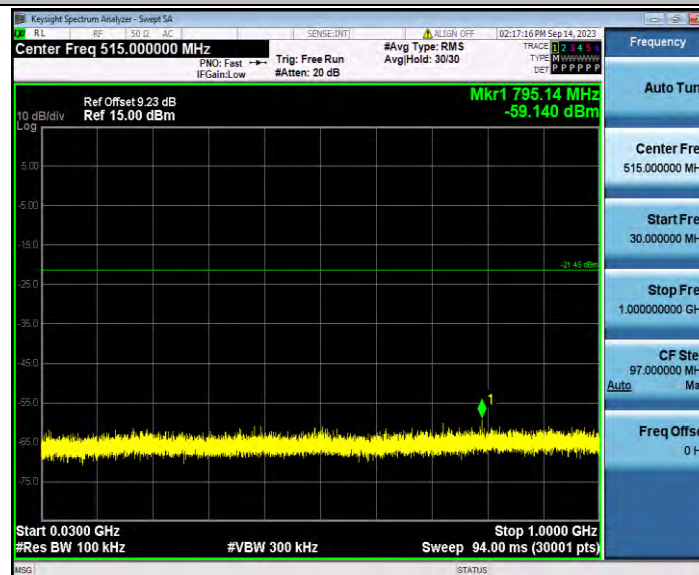
11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



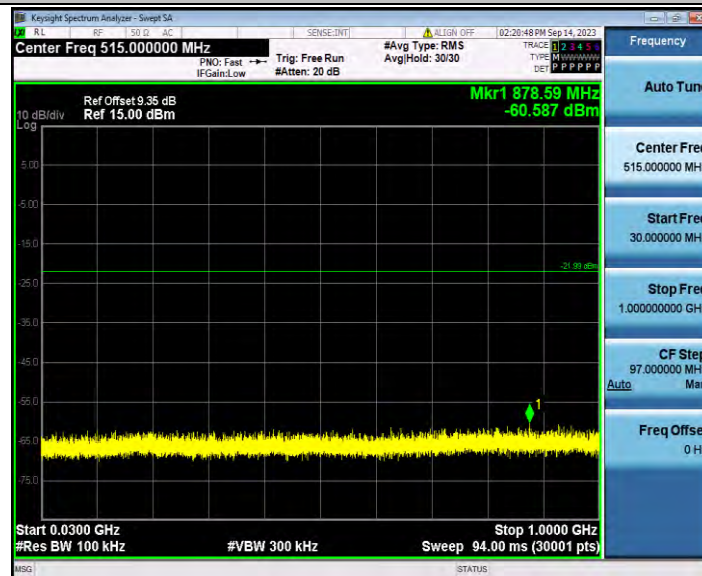
11N40SISO_Ant1_2422_30~1000



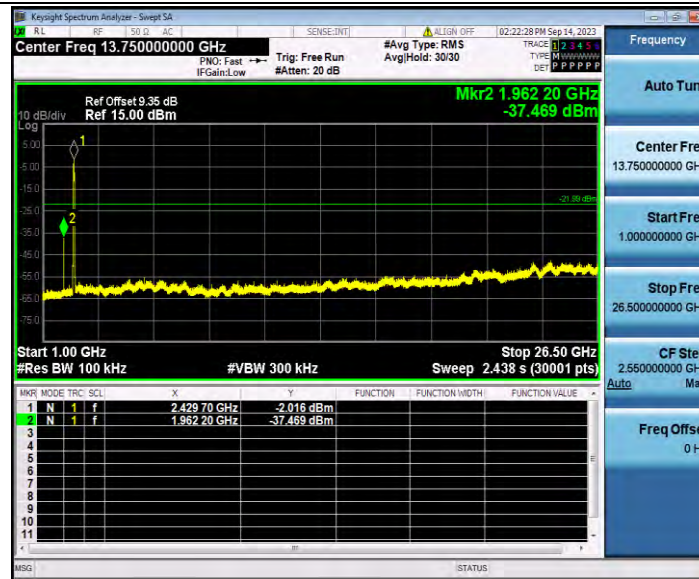
11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



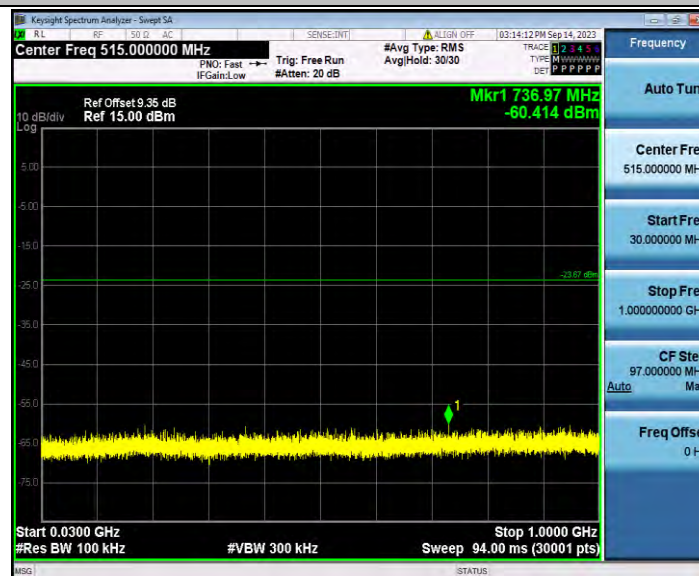
11N40SISO_Ant1_2437_30~1000

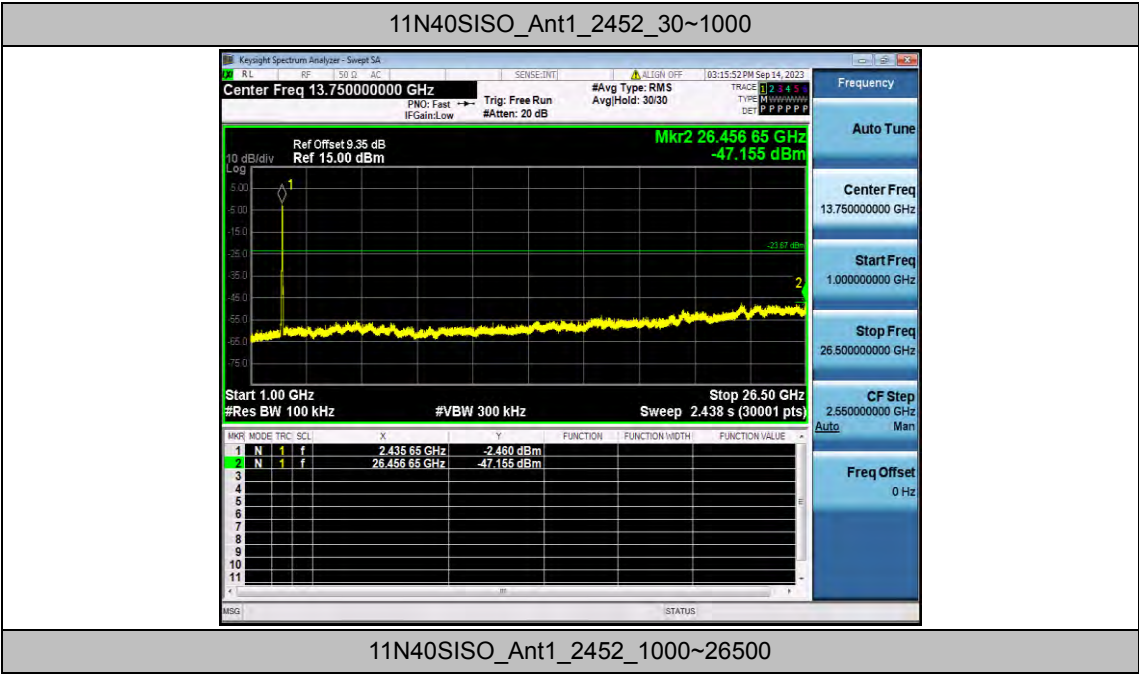


11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference





Appendix C.7: Emissions in Restricted Bands

Test Result

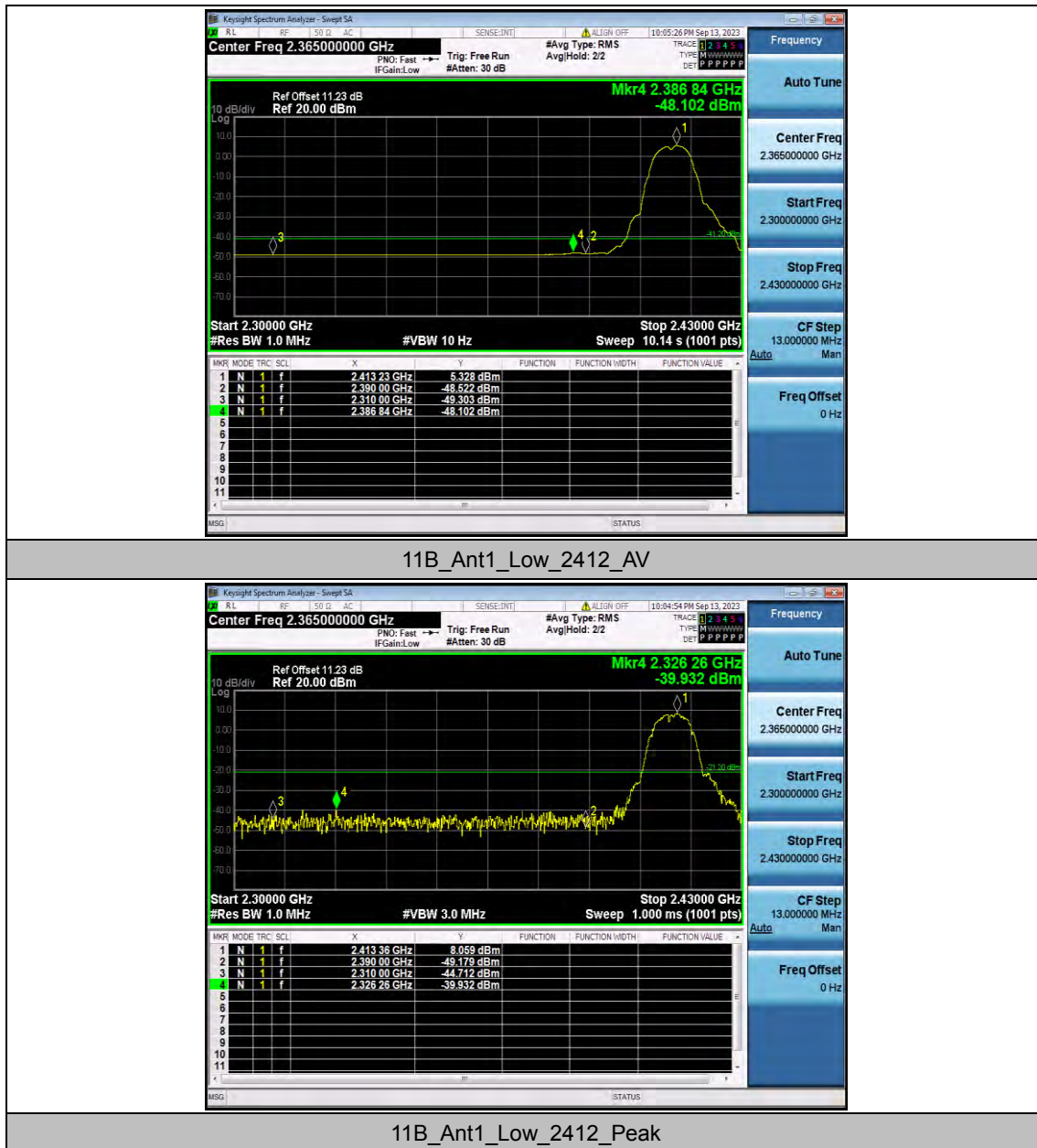
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2386.840	-48.1	≤-41.20	47.10	≤54	PASS
				AV	2390.000	-48.52	≤-41.20	46.68	≤54	PASS
				Peak	2310.000	-44.71	≤-21.20	50.49	≤74	PASS
				Peak	2326.260	-39.93	≤-21.20	55.27	≤74	PASS
				Peak	2390.000	-49.18	≤-21.20	46.02	≤74	PASS
		High	2462	AV	2483.500	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2485.650	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-45.36	≤-21.20	49.84	≤74	PASS
				Peak	2493.790	-40.25	≤-21.20	54.95	≤74	PASS
				Peak	2500.000	-42.74	≤-21.20	52.46	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2389.960	-46.16	≤-41.20	49.04	≤54	PASS
				AV	2390.000	-46.16	≤-41.20	49.04	≤54	PASS
				Peak	2310.000	-44.87	≤-21.20	50.33	≤74	PASS
				Peak	2388.530	-33.59	≤-21.20	61.61	≤74	PASS
				Peak	2390.000	-40.69	≤-21.20	54.51	≤74	PASS
		High	2462	AV	2483.500	-43.46	≤-41.20	51.74	≤54	PASS
				AV	2483.560	-43.72	≤-41.20	51.48	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-36.88	≤-21.20	58.32	≤74	PASS
				Peak	2483.890	-29.63	≤-21.20	65.57	≤74	PASS
				Peak	2500.000	-45.48	≤-21.20	49.72	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2389.960	-45.06	≤-41.20	50.14	≤54	PASS
				AV	2390.000	-45.06	≤-41.20	50.14	≤54	PASS
				Peak	2310.000	-41.07	≤-21.20	54.13	≤74	PASS
				Peak	2389.700	-33.35	≤-21.20	61.85	≤74	PASS
				Peak	2390.000	-37.19	≤-21.20	58.01	≤74	PASS
		High	2462	AV	2483.500	-41.68	≤-41.20	53.52	≤54	PASS
				AV	2483.560	-41.85	≤-41.20	53.35	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-35.91	≤-21.20	59.29	≤74	PASS
				Peak	2484.220	-29	≤-21.20	66.20	≤74	PASS
				Peak	2500.000	-42.21	≤-21.20	52.99	≤74	PASS

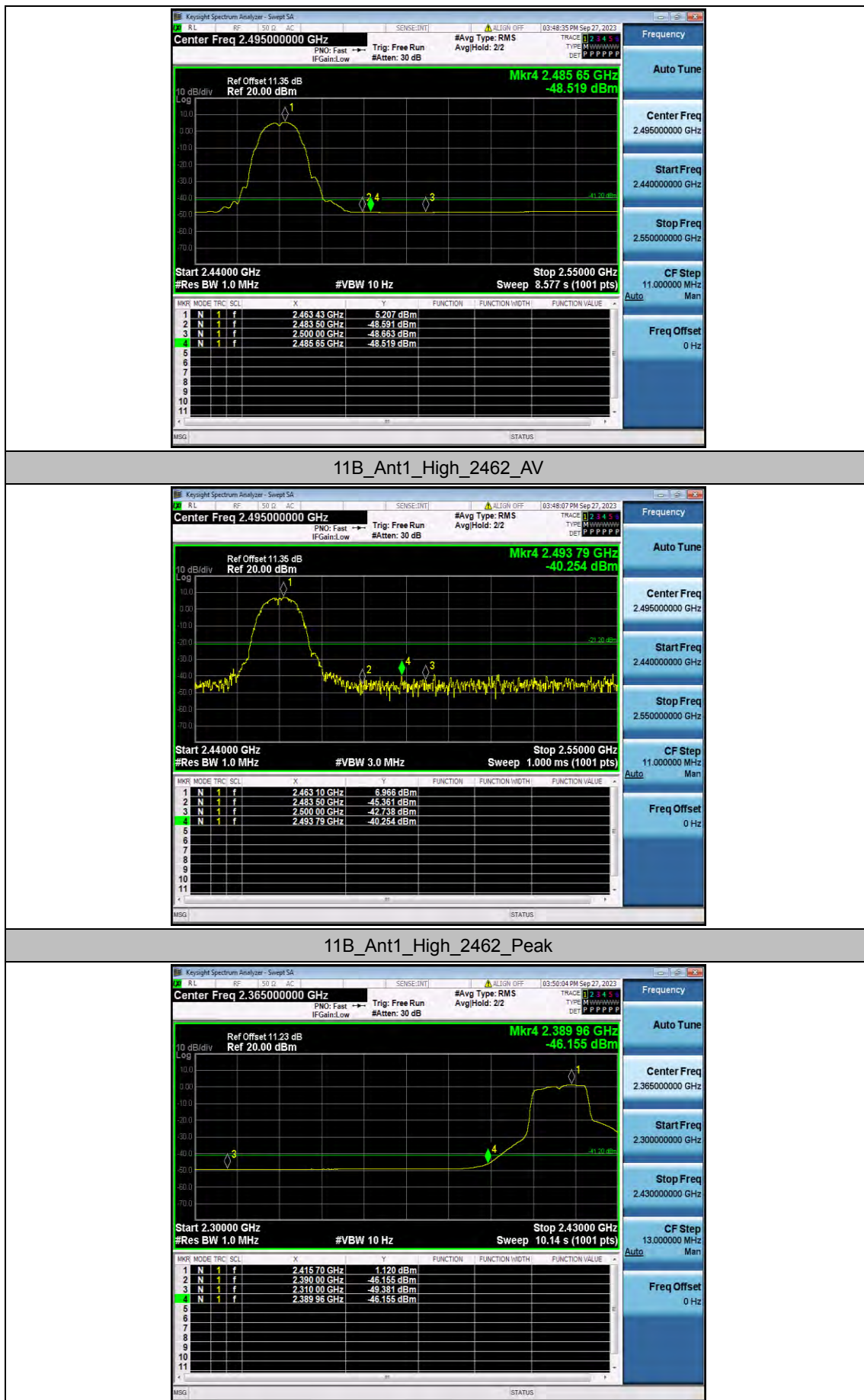
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.38	≤ -41.20	45.82	≤ 54	PASS
				AV	2389.570	-41.84	≤ -41.20	53.36	≤ 54	PASS
				AV	2390.000	-41.92	≤ -41.20	53.28	≤ 54	PASS
				Peak	2310.000	-45.28	≤ -21.20	49.92	≤ 74	PASS
				Peak	2388.010	-27.66	≤ -21.20	67.54	≤ 74	PASS
				Peak	2390.000	-38.01	≤ -21.20	57.19	≤ 74	PASS
		High	2452	AV	2483.500	-45.88	≤ -41.20	49.32	≤ 54	PASS
				AV	2483.560	-45.92	≤ -41.20	49.28	≤ 54	PASS
				AV	2500.000	-48.67	≤ -41.20	46.53	≤ 54	PASS
				Peak	2483.500	-42.29	≤ -21.20	52.91	≤ 74	PASS
				Peak	2484.660	-32.14	≤ -21.20	63.06	≤ 74	PASS
				Peak	2500.000	-44.29	≤ -21.20	50.91	≤ 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





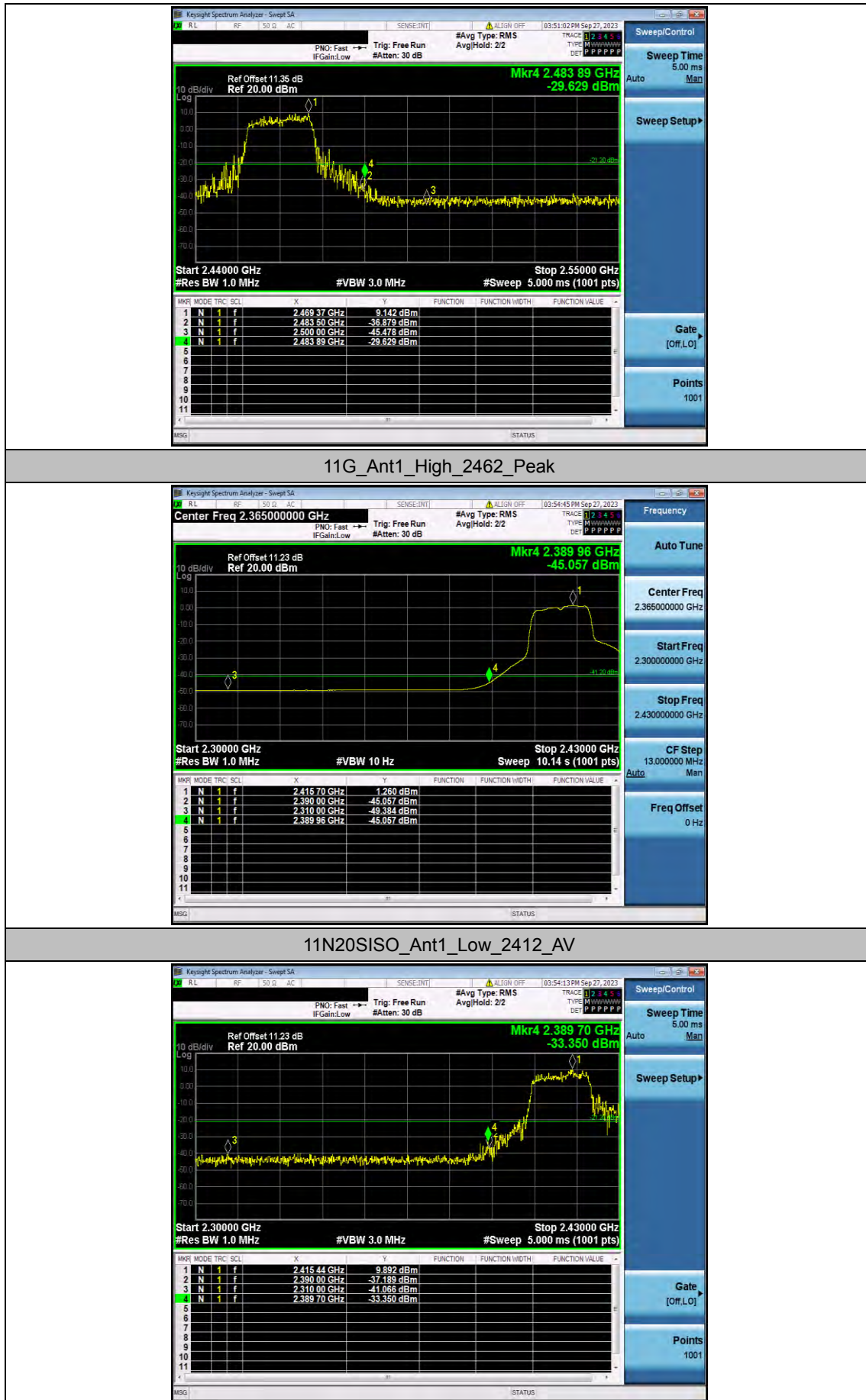
11G_Ant1_Low_2412_AV



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

