

Case No. : <u>GTS20230628002-1-26</u>	
Ambient Condition: <u>23</u> °C, <u>53</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2024.1.18</u>	Test Engineer: <u>Evan ouyang</u>

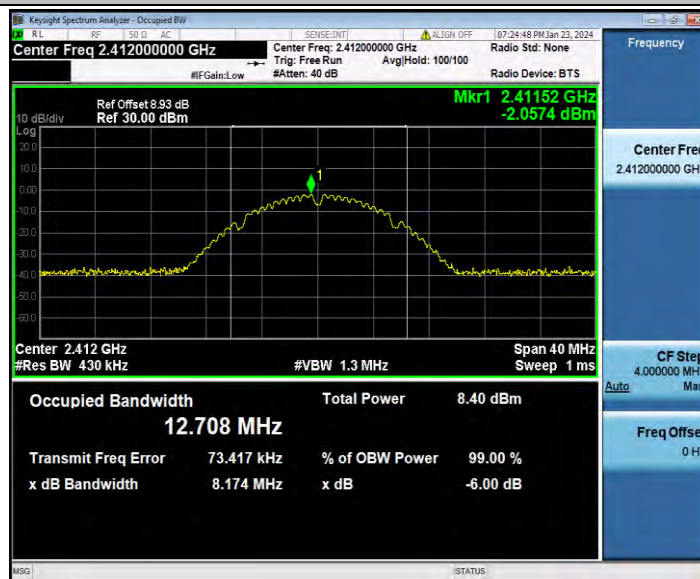
Appendix C.1: DTS Bandwidth

Test Result

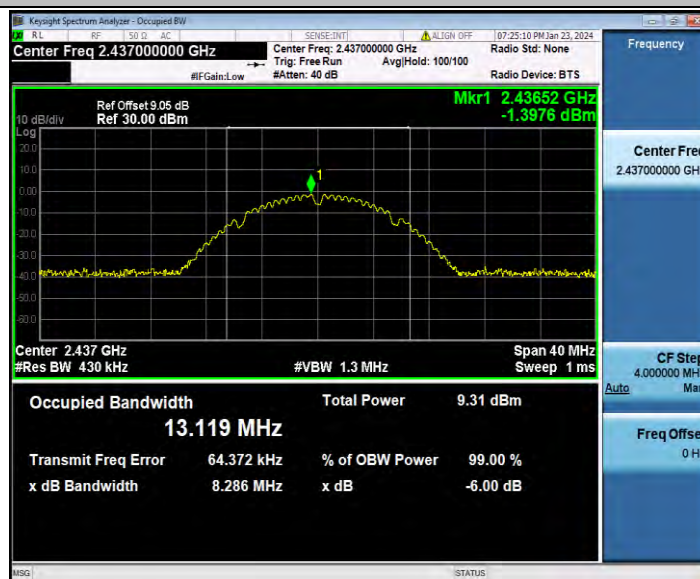
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.174	2408.960	2416.040	0.5	PASS
		2437	8.286	2433.000	2441.080	0.5	PASS
		2462	8.618	2456.960	2465.040	0.5	PASS
11G	Ant1	2412	15.690	2405.720	2419.560	0.5	PASS
		2437	16.220	2429.440	2445.160	0.5	PASS
		2462	13.920	2453.800	2466.960	0.5	PASS
11N20SISO	Ant1	2412	15.660	2405.680	2419.560	0.5	PASS
		2437	17.560	2430.760	2445.800	0.5	PASS
		2462	13.750	2453.160	2468.280	0.5	PASS
11N40SISO	Ant1	2422	32.370	2409.520	2427.040	0.5	PASS
		2437	36.390	2420.680	2453.320	0.5	PASS
		2452	21.300	2445.680	2455.760	0.5	PASS

Test Graphs

11B_Ant1_2412



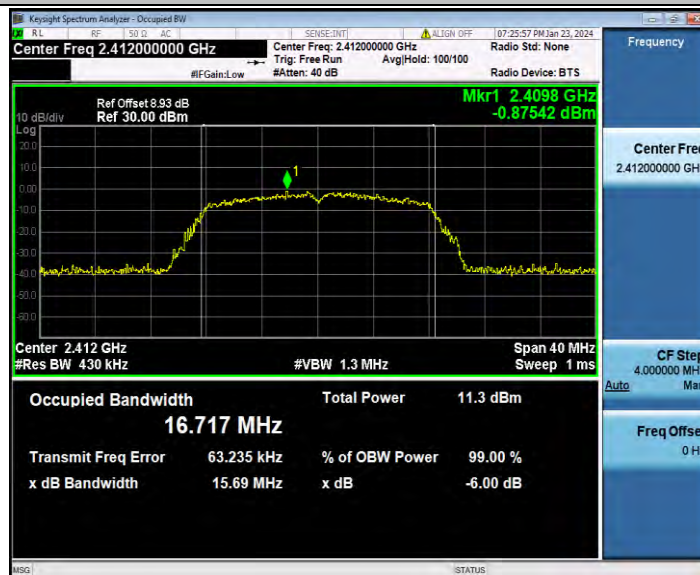
11B_Ant1_2437



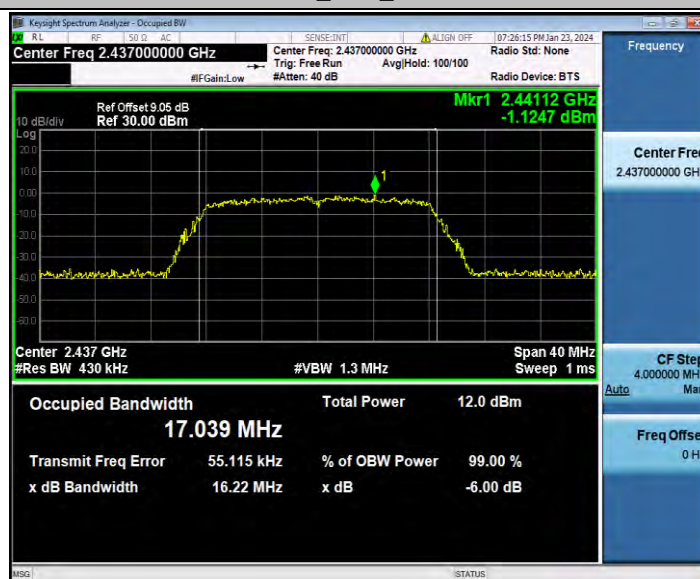
11B_Ant1_2462



11G_Ant1_2412



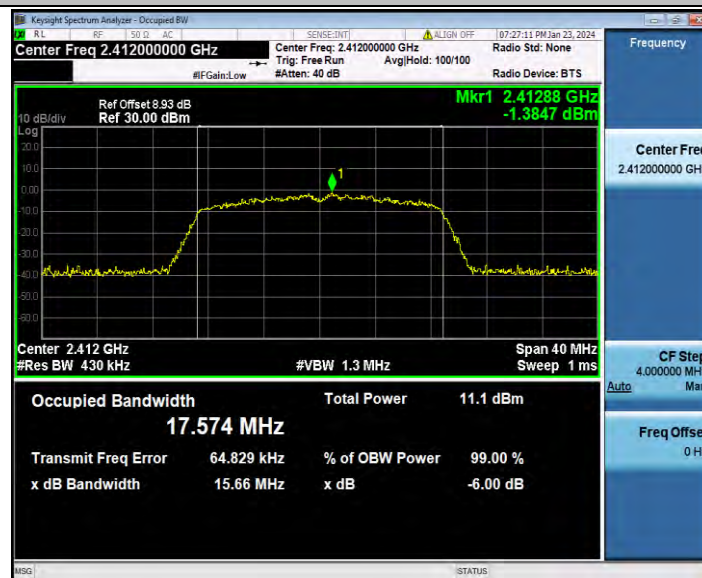
11G_Ant1_2437



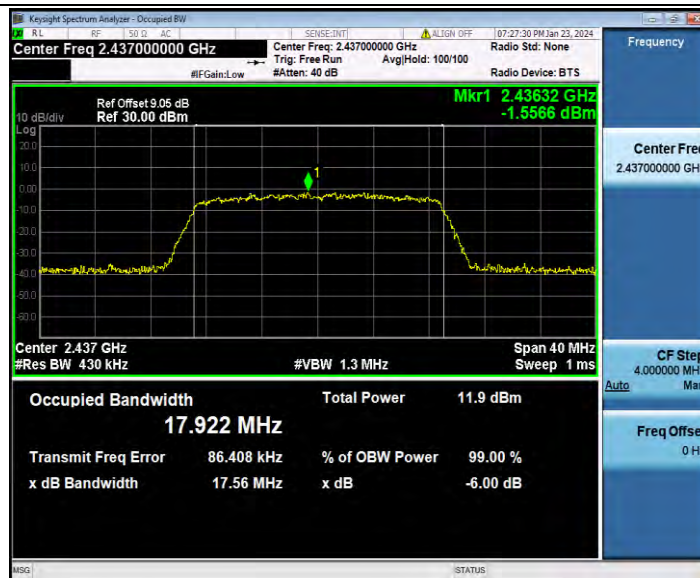
11G_Ant1_2462



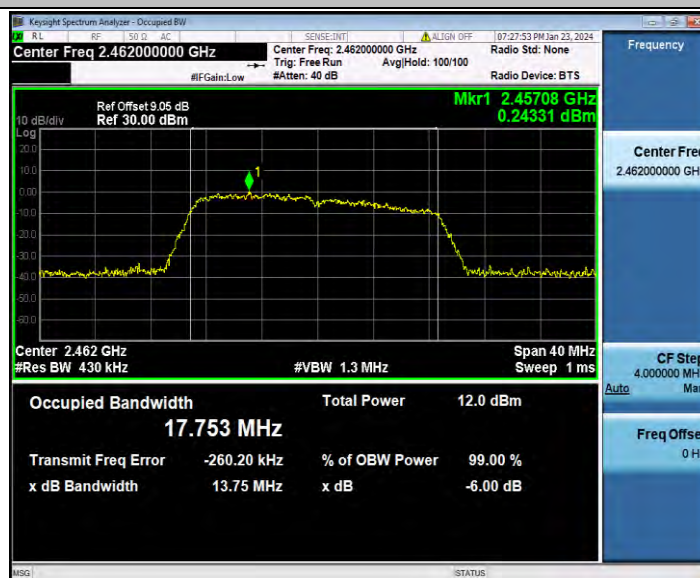
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



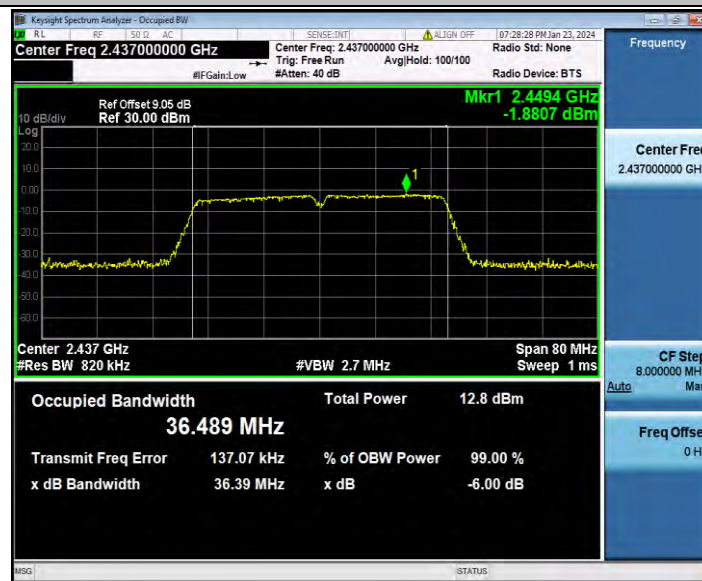
11N20SISO_Ant1_2462



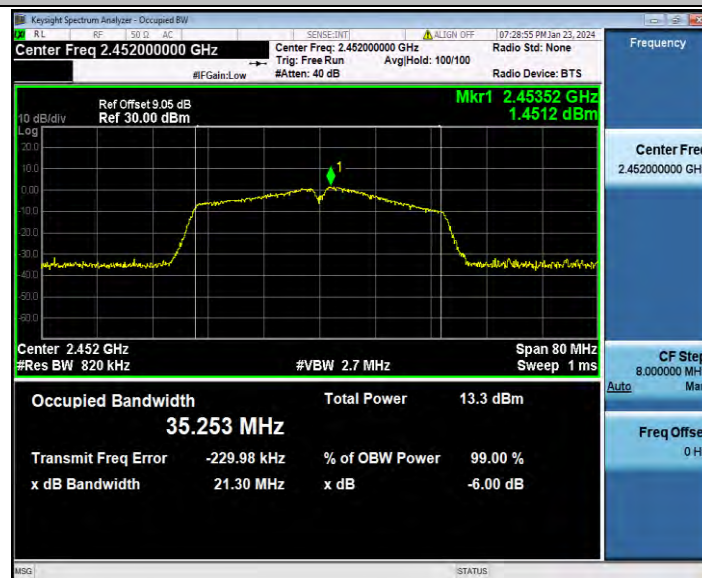
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



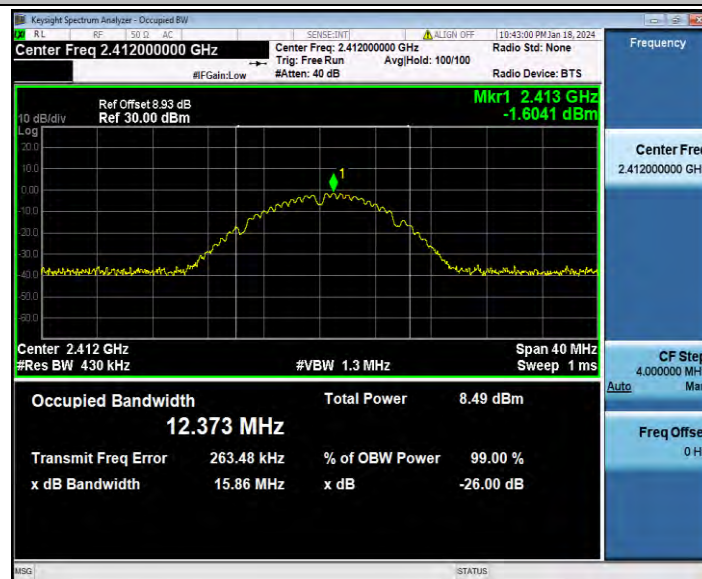
Appendix C.2: Occupied Channel Bandwidth

Test Result

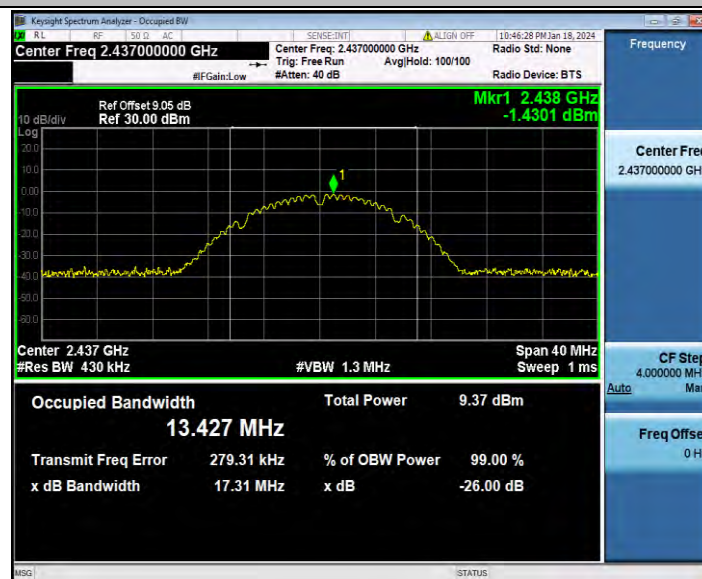
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.373	2406.0770	2418.4500	---	---
		2437	13.427	2430.5658	2443.9928	---	---
		2462	13.531	2454.6526	2468.1836	---	---
11G	Ant1	2412	16.253	2404.0091	2420.2621	---	---
		2437	17.147	2428.7088	2445.8558	---	---
		2462	17.104	2453.0588	2470.1628	---	---
11N20SISO	Ant1	2412	17.334	2403.4361	2420.7701	---	---
		2437	18.077	2428.1779	2446.2549	---	---
		2462	17.978	2452.7123	2470.6903	---	---
11N40SISO	Ant1	2422	35.651	2404.1892	2439.8402	---	---
		2437	36.699	2418.6609	2455.3599	---	---
		2452	34.702	2434.5051	2469.2071	---	---

Test Graphs

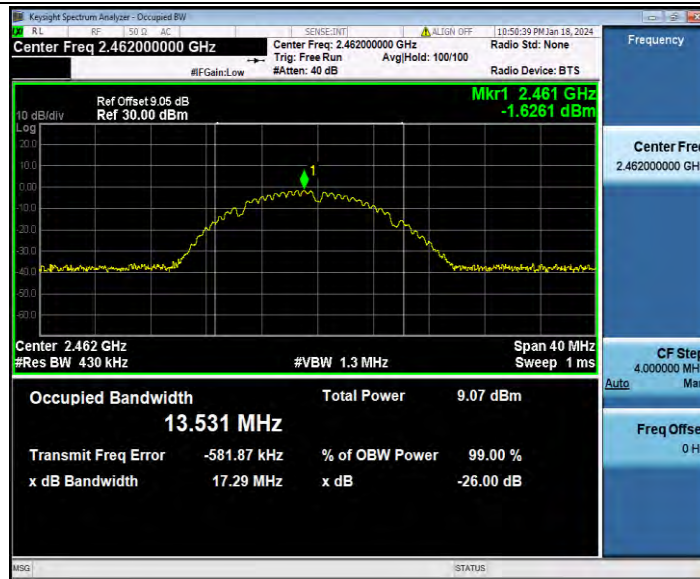
11B_Ant1_2412



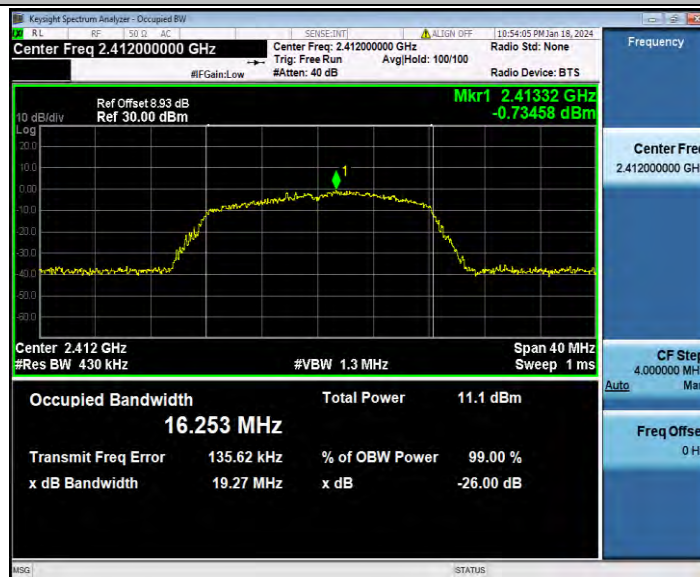
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



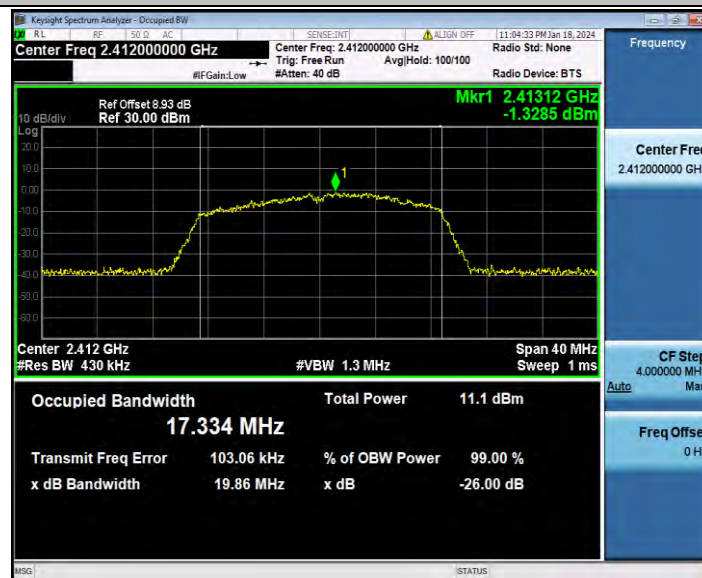
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



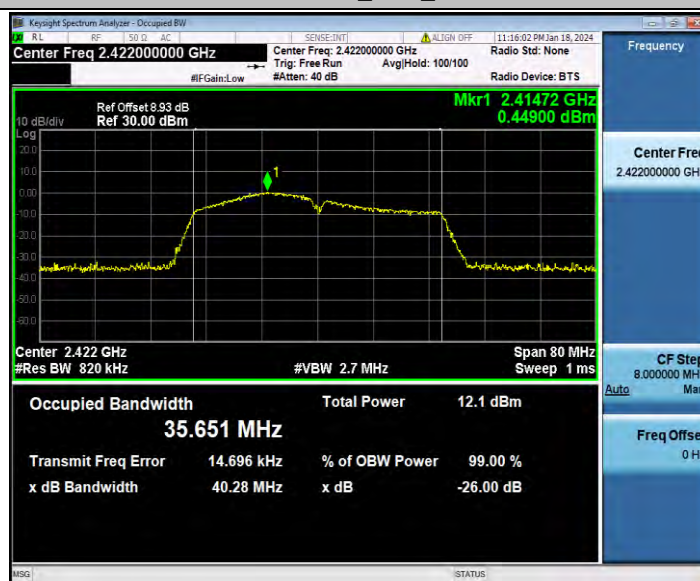
11N20SISO_Ant1_2437



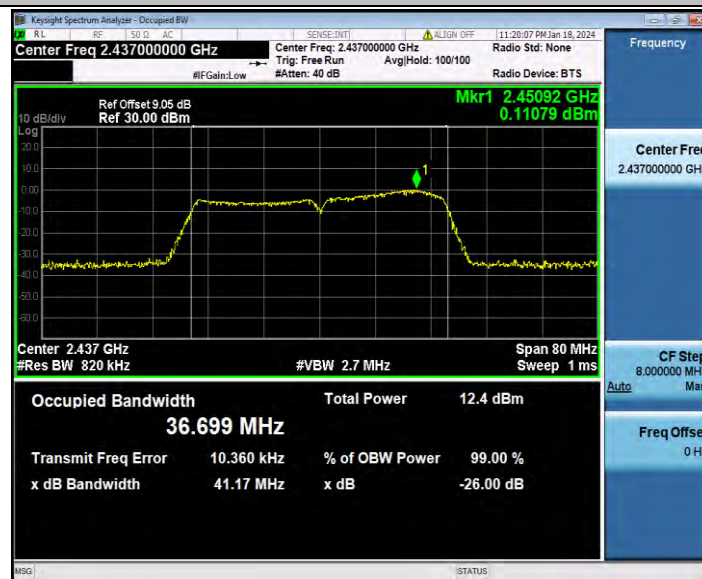
11N20SISO_Ant1_2462



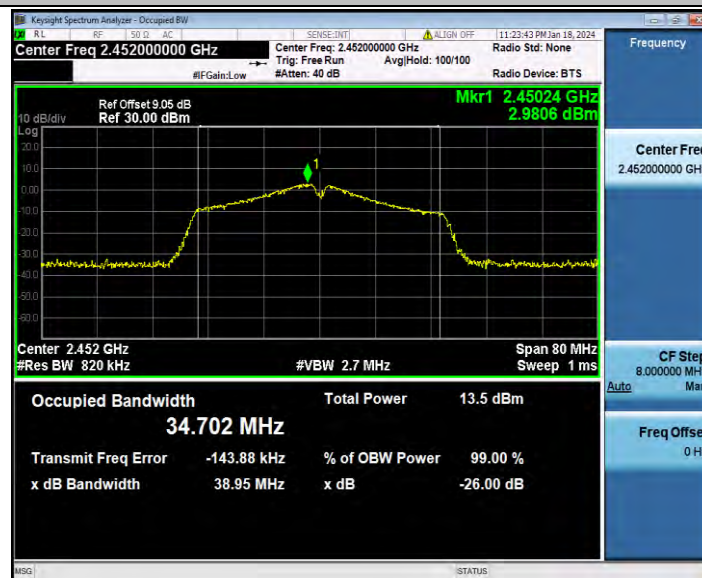
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C.3: Maximum conducted output power

Test Result Peak

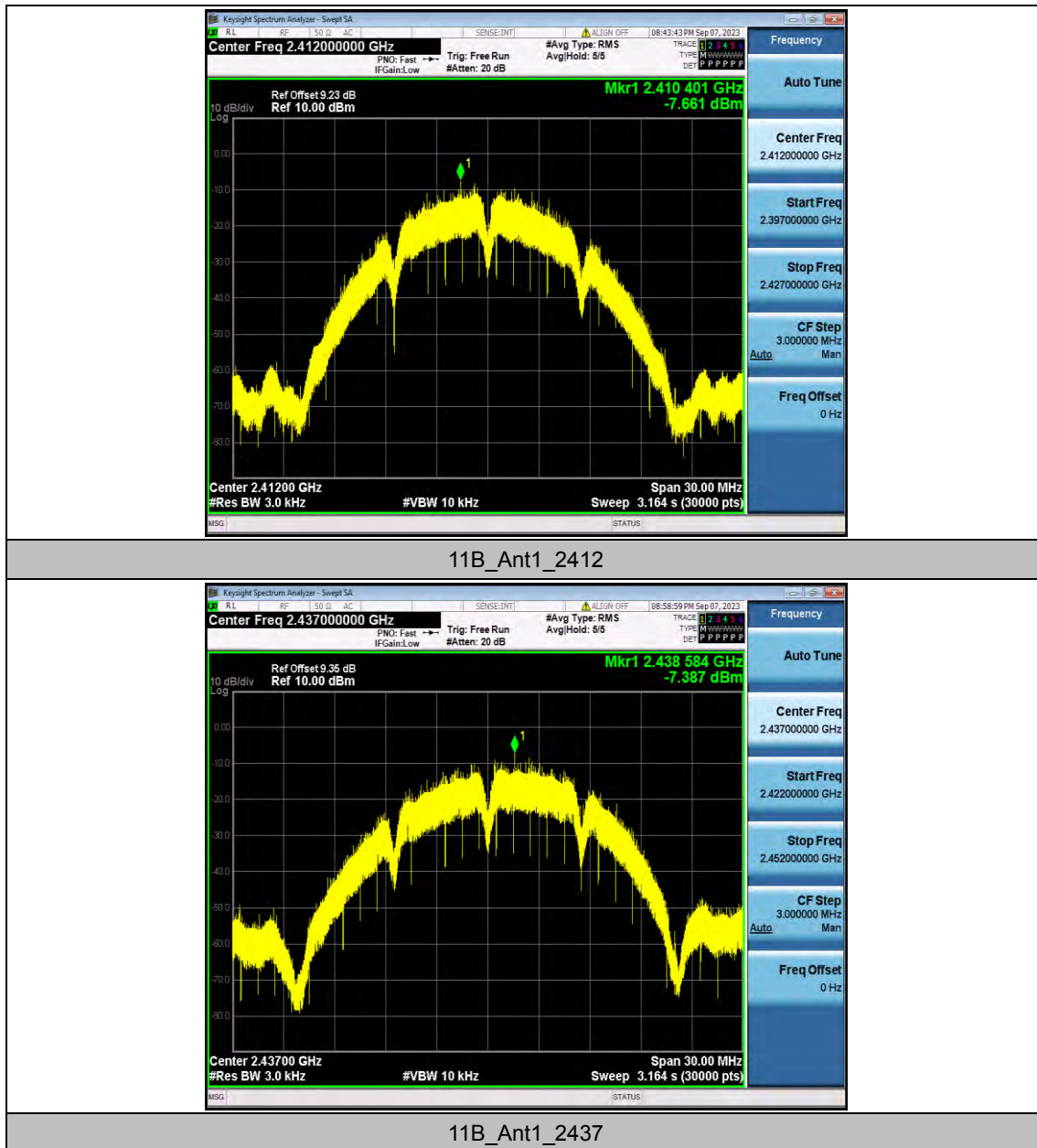
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	19.29	≤30.00	PASS
		2437	19.59	≤30.00	PASS
		2462	19.48	≤30.00	PASS
11G	Ant1	2412	20.98	≤30.00	PASS
		2437	21.59	≤30.00	PASS
		2462	21.19	≤30.00	PASS
11N20SISO	Ant1	2412	21.10	≤30.00	PASS
		2437	21.78	≤30.00	PASS
		2462	21.53	≤30.00	PASS
11N40SISO	Ant1	2422	21.13	≤30.00	PASS
		2437	21.37	≤30.00	PASS
		2452	22.19	≤30.00	PASS

Appendix C.4: Maximum power spectral density

Test Result

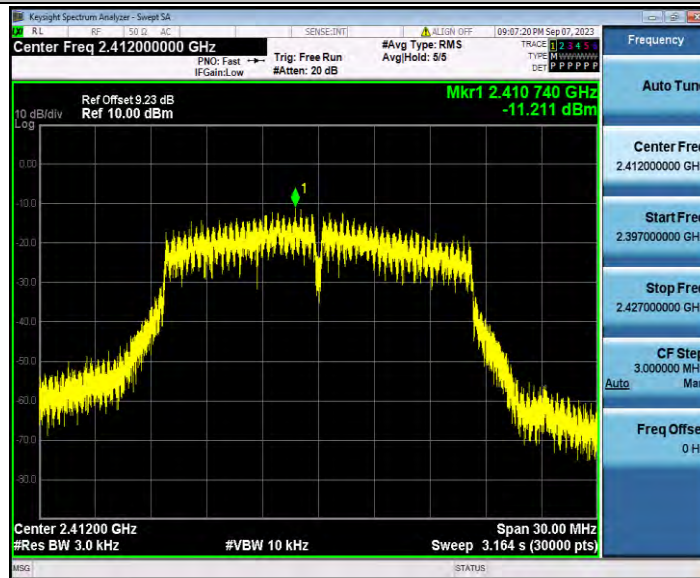
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.66	≤8.00	PASS
		2437	-7.39	≤8.00	PASS
		2462	-8.38	≤8.00	PASS
11G	Ant1	2412	-11.21	≤8.00	PASS
		2437	-9.12	≤8.00	PASS
		2462	-12.28	≤8.00	PASS
11N20SISO	Ant1	2412	-9.45	≤8.00	PASS
		2437	-10.41	≤8.00	PASS
		2462	-13.11	≤8.00	PASS
11N40SISO	Ant1	2422	-13.38	≤8.00	PASS
		2437	-10.52	≤8.00	PASS
		2452	-11.33	≤8.00	PASS

Test Graphs

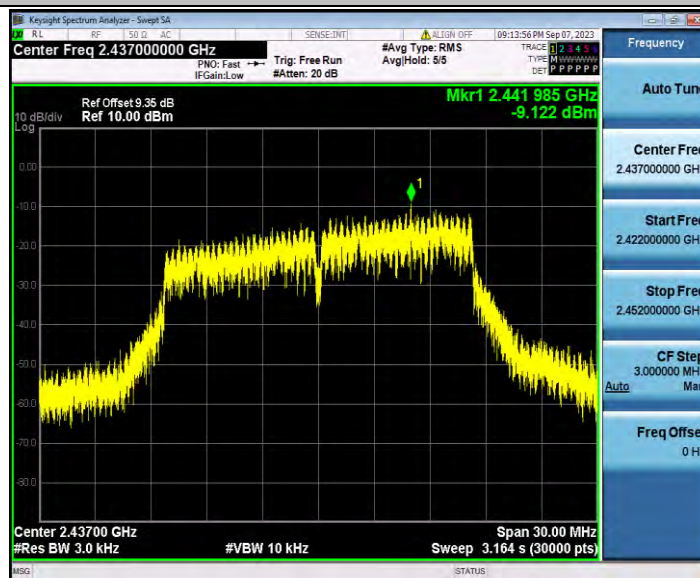




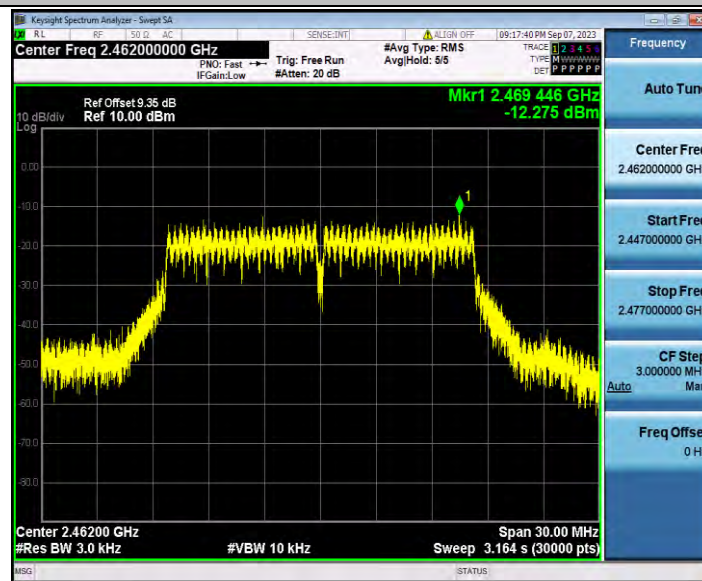
11B_Ant1_2462



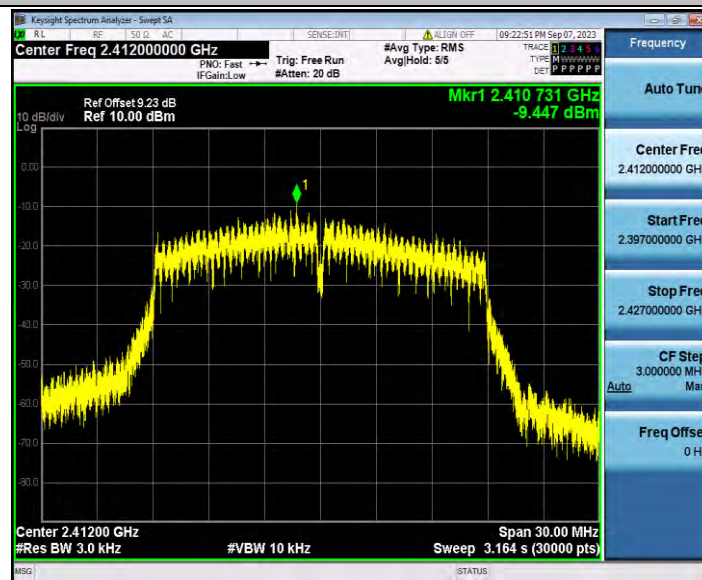
11G_Ant1_2412



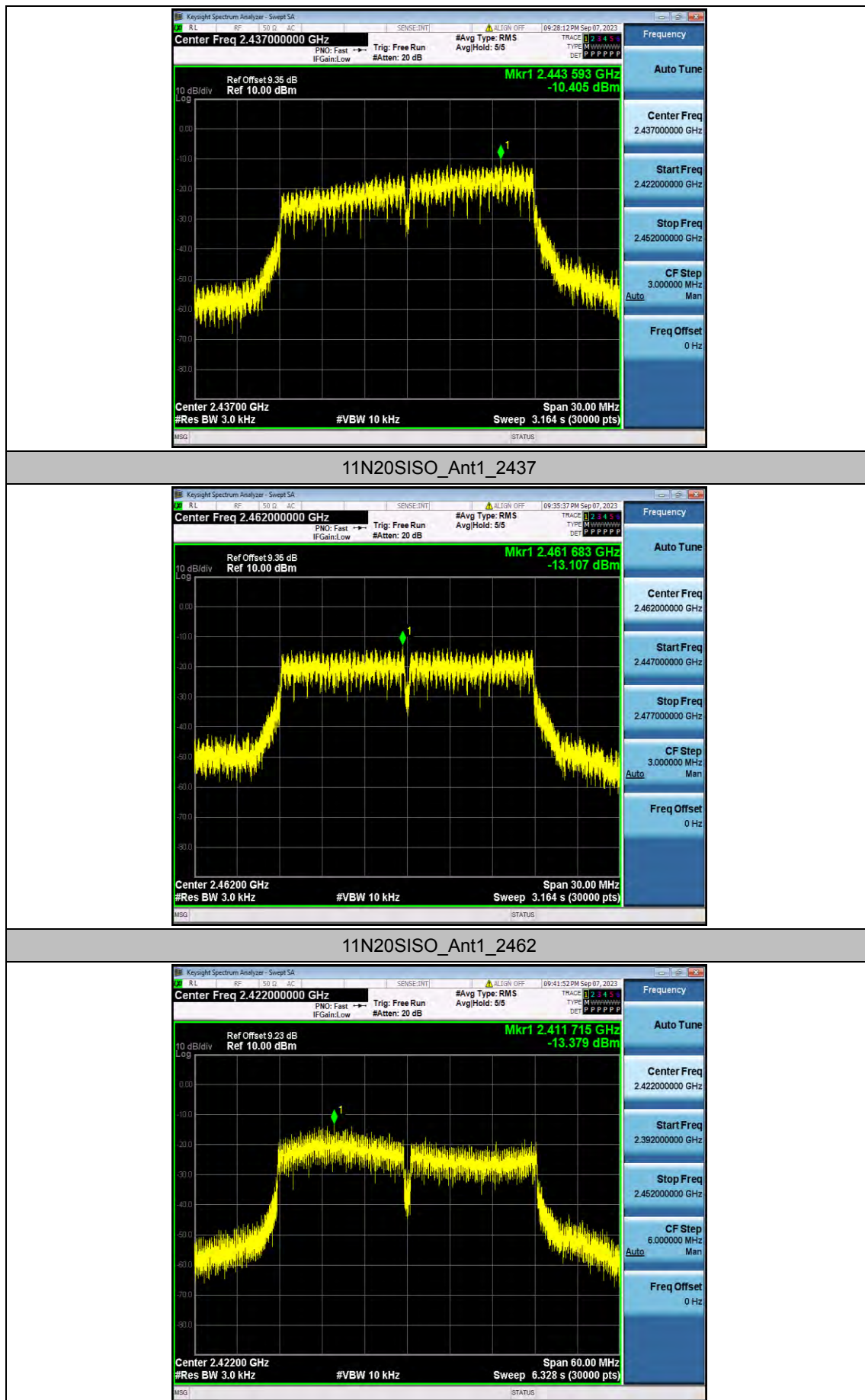
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

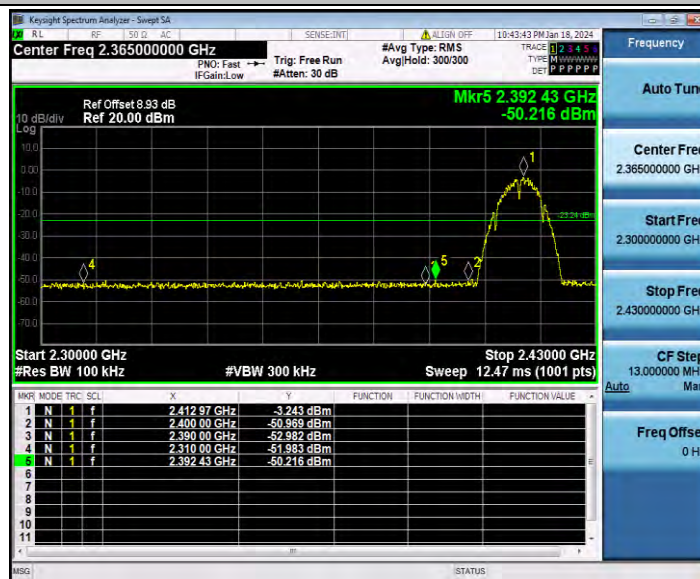
Appendix C.5: Band edge measurements

Test Result

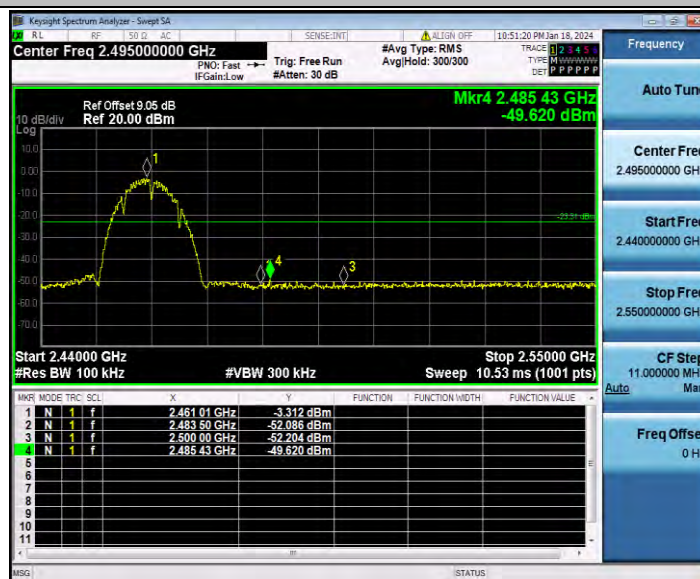
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-3.24	-50.22	≤ -23.24	PASS
		High	2462	-3.31	-49.62	≤ -23.31	PASS
11G	Ant1	Low	2412	-3.52	-49.78	≤ -23.52	PASS
		High	2462	-3.66	-49.58	≤ -23.66	PASS
11N20SISO	Ant1	Low	2412	-3.75	-49.59	≤ -23.75	PASS
		High	2462	-3.18	-49.65	≤ -23.18	PASS
11N40SISO	Ant1	Low	2422	-5.62	-49.44	≤ -25.62	PASS
		High	2452	-3.13	-49.37	≤ -23.13	PASS

Test Graphs

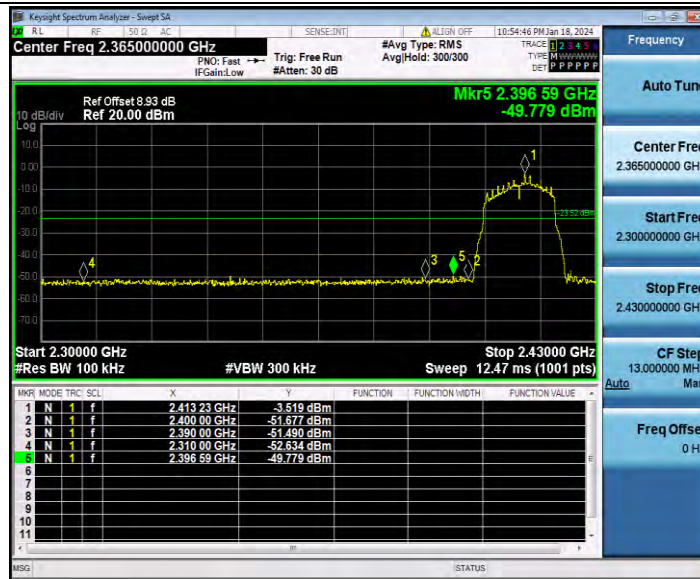
11B_Ant1_Low_2412



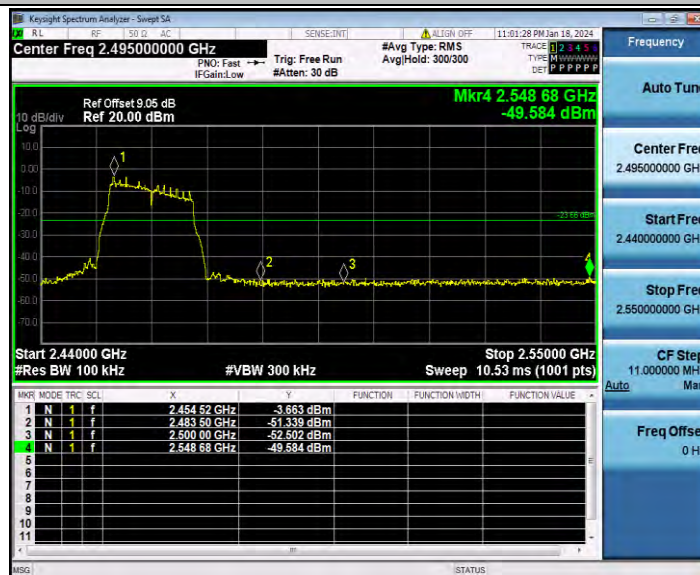
11B_Ant1_High_2462



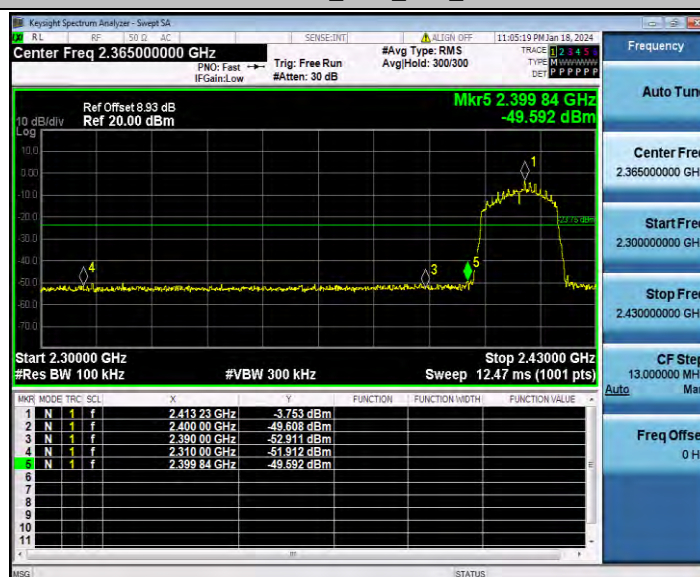
11G_Ant1_Low_2412



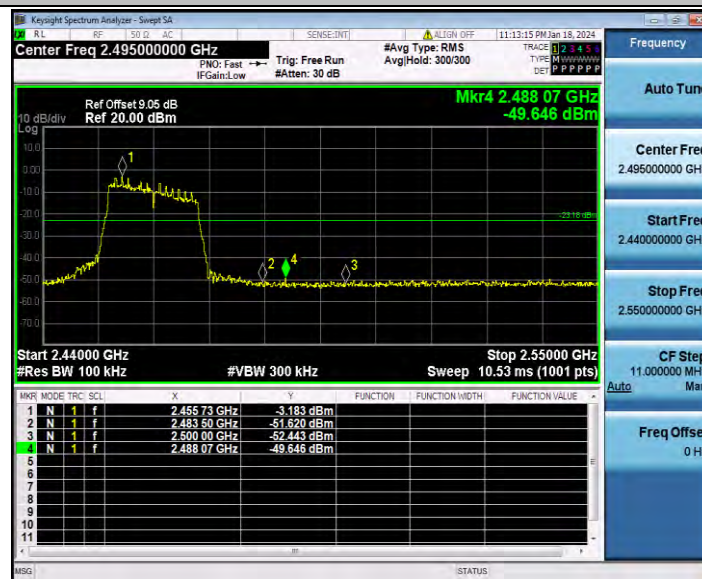
11G_Ant1_High_2462



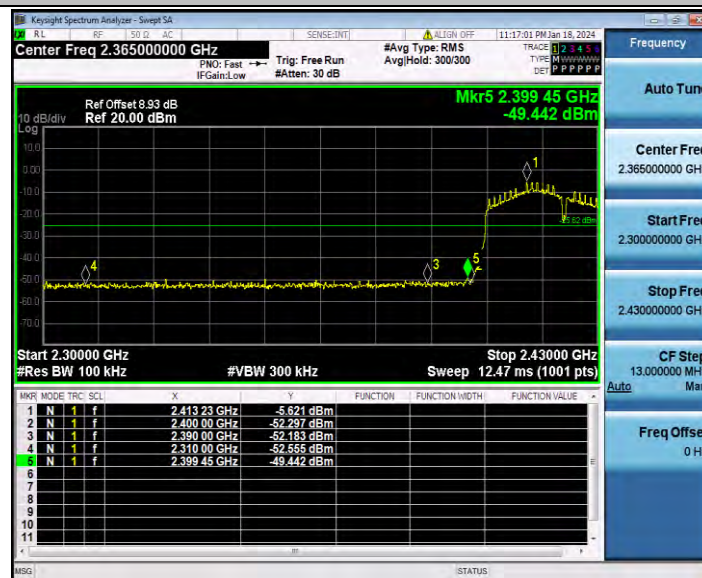
11N20SISO_Ant1_Low_2412



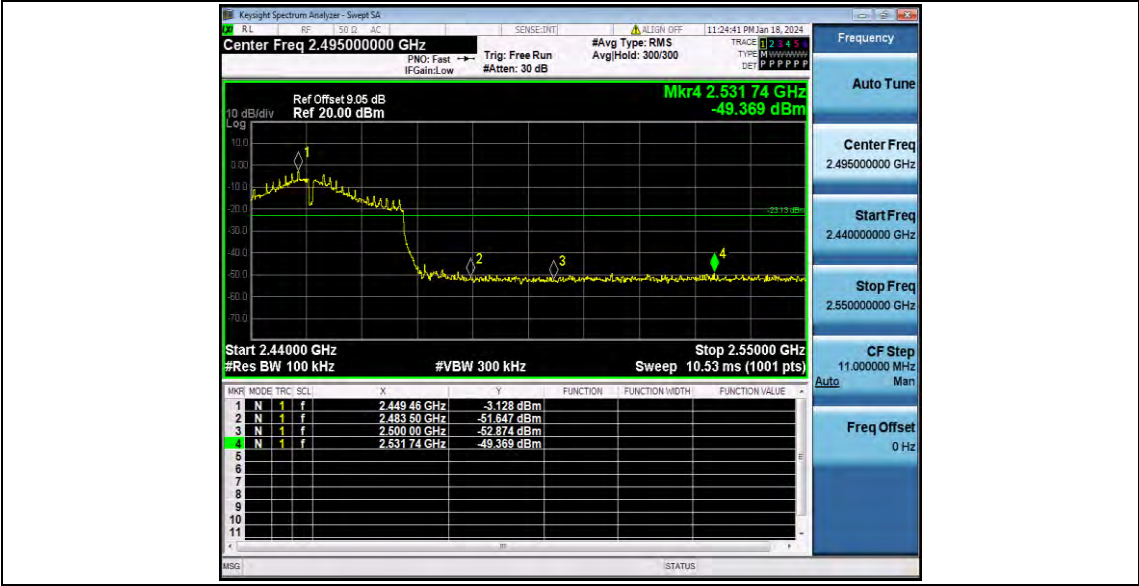
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

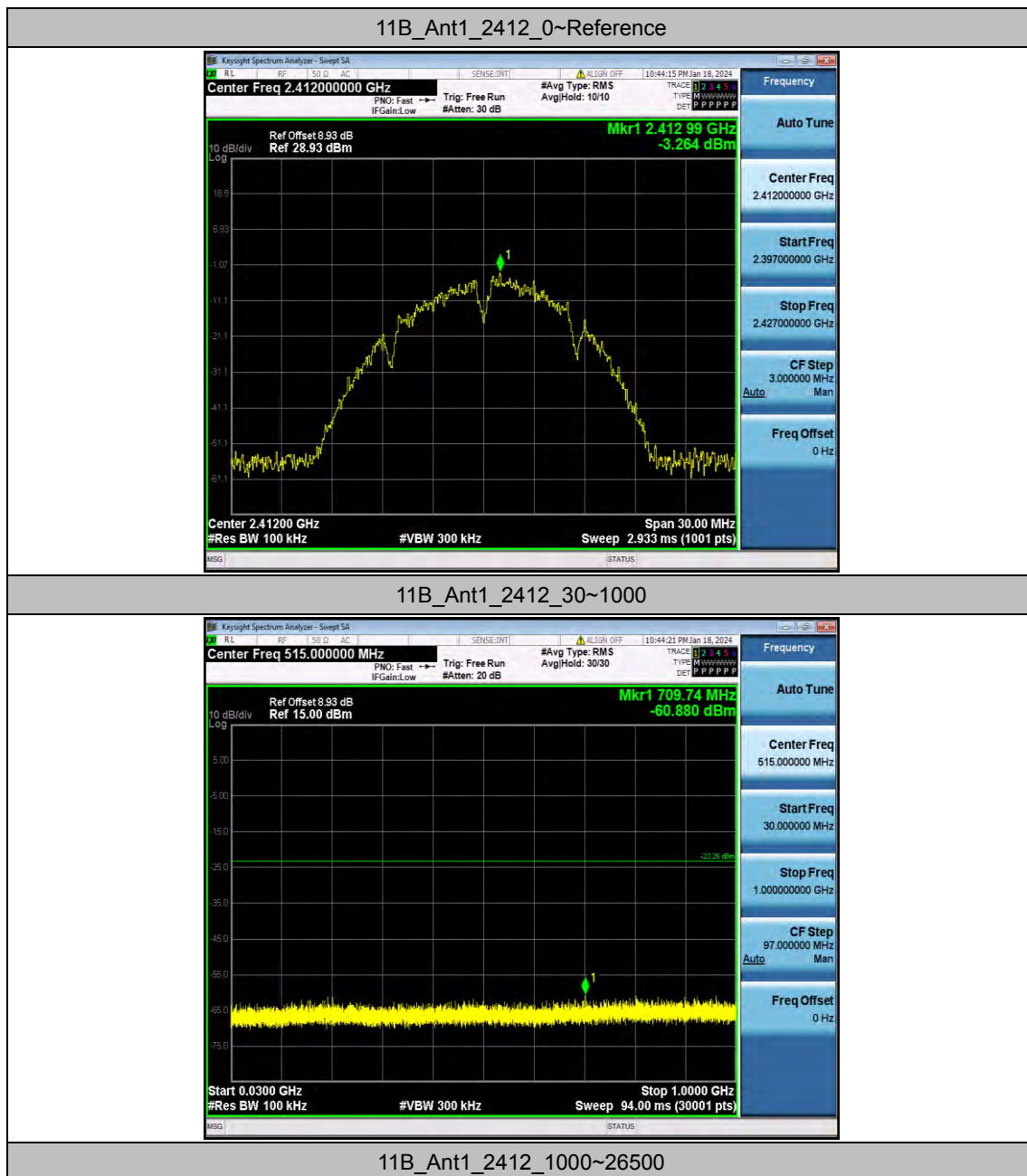


Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-3.26	-3.26	---	PASS
			30~1000	-3.26	-60.88	≤ -23.26	PASS
			1000~26500	-3.26	-47.84	≤ -23.26	PASS
		2437	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-59.68	≤ -23.11	PASS
			1000~26500	-3.11	-47.63	≤ -23.11	PASS
		2462	Reference	-3.77	-3.77	---	PASS
			30~1000	-3.77	-61.02	≤ -23.77	PASS
			1000~26500	-3.77	-47.79	≤ -23.77	PASS
11G	Ant1	2412	Reference	-7.70	-7.70	---	PASS
			30~1000	-7.70	-60.7	≤ -27.7	PASS
			1000~26500	-7.70	-47.59	≤ -27.7	PASS
		2437	Reference	-5.48	-5.48	---	PASS
			30~1000	-5.48	-60.7	≤ -25.48	PASS
			1000~26500	-5.48	-47.87	≤ -25.48	PASS
		2462	Reference	-5.27	-5.27	---	PASS
			30~1000	-5.27	-60.72	≤ -25.27	PASS
			1000~26500	-5.27	-47.48	≤ -25.27	PASS
11N20SISO	Ant1	2412	Reference	-7.28	-7.28	---	PASS
			30~1000	-7.28	-60.28	≤ -27.28	PASS
			1000~26500	-7.28	-48.08	≤ -27.28	PASS
		2437	Reference	-8.06	-8.06	---	PASS
			30~1000	-8.06	-61.24	≤ -28.06	PASS
			1000~26500	-8.06	-47.28	≤ -28.06	PASS
		2462	Reference	-6.63	-6.63	---	PASS
			30~1000	-6.63	-60.59	≤ -26.63	PASS
			1000~26500	-6.63	-47.47	≤ -26.63	PASS
11N40SISO	Ant1	2422	Reference	-9.14	-9.14	---	PASS
			30~1000	-9.14	-59.95	≤ -29.14	PASS
			1000~26500	-9.14	-47.96	≤ -29.14	PASS
		2437	Reference	-8.25	-8.25	---	PASS
			30~1000	-8.25	-61.09	≤ -28.25	PASS
			1000~26500	-8.25	-47.68	≤ -28.25	PASS
		2452	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-60.87	≤ -23.14	PASS
			1000~26500	-3.14	-46.37	≤ -23.14	PASS

Test Graphs



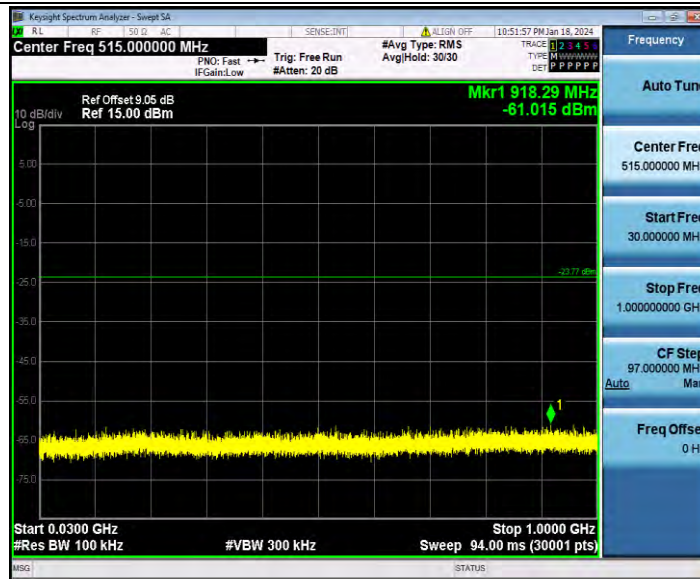
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



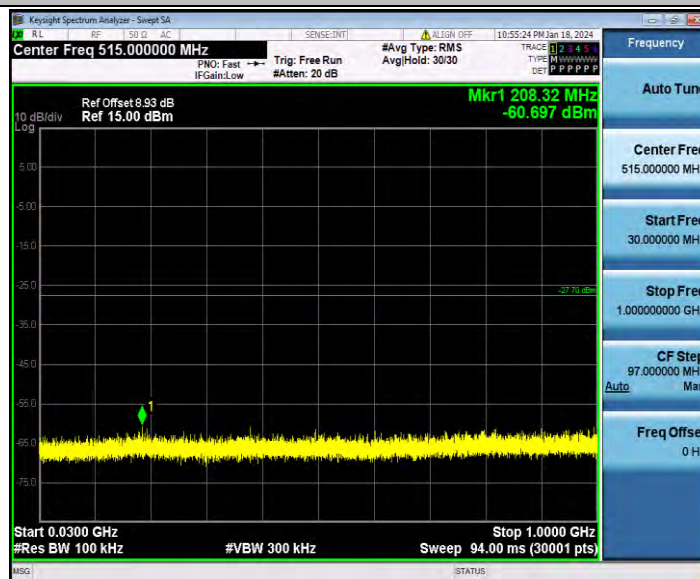
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



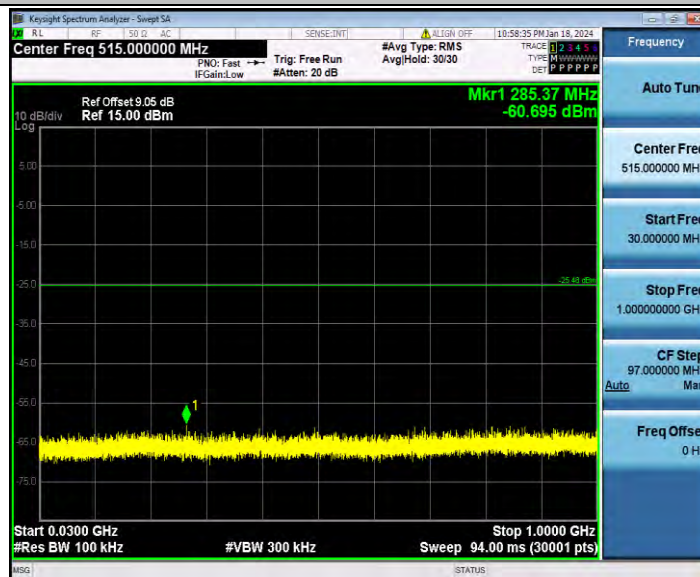
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



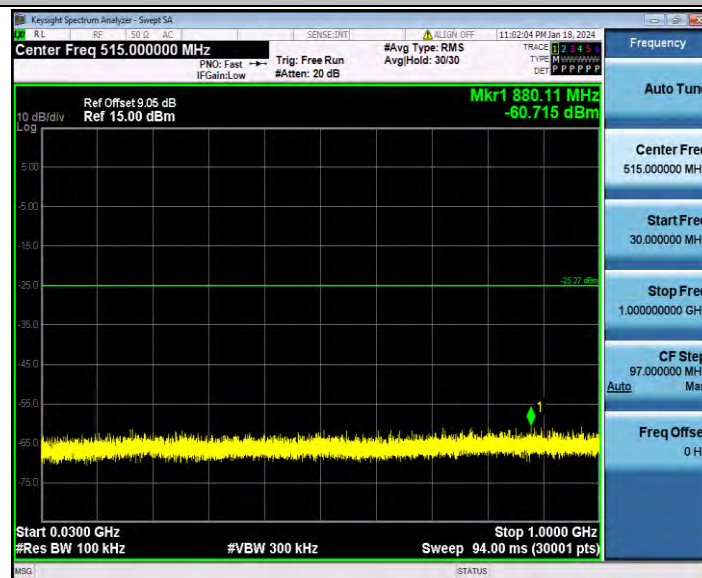
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



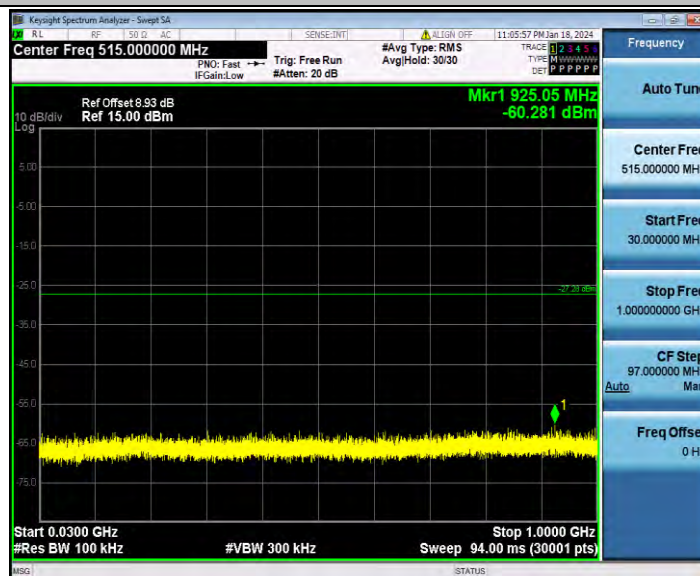
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



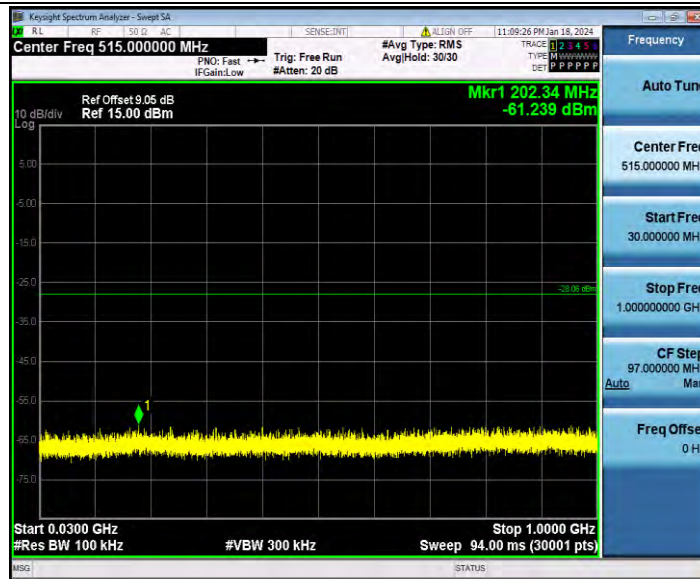
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



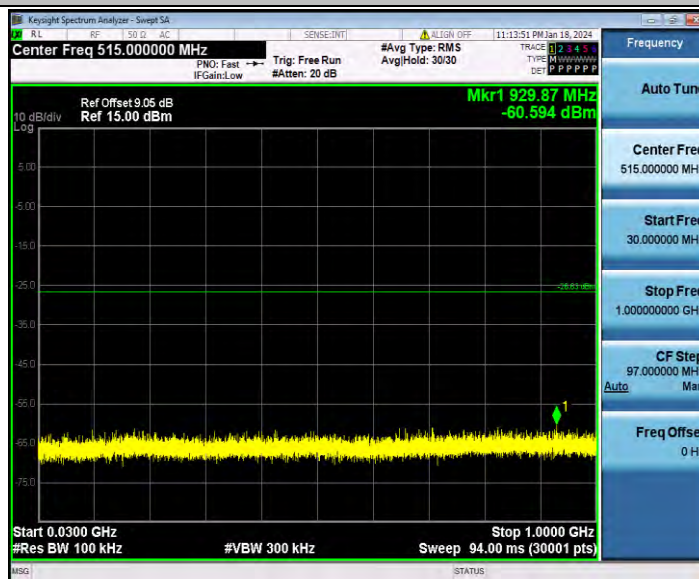
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



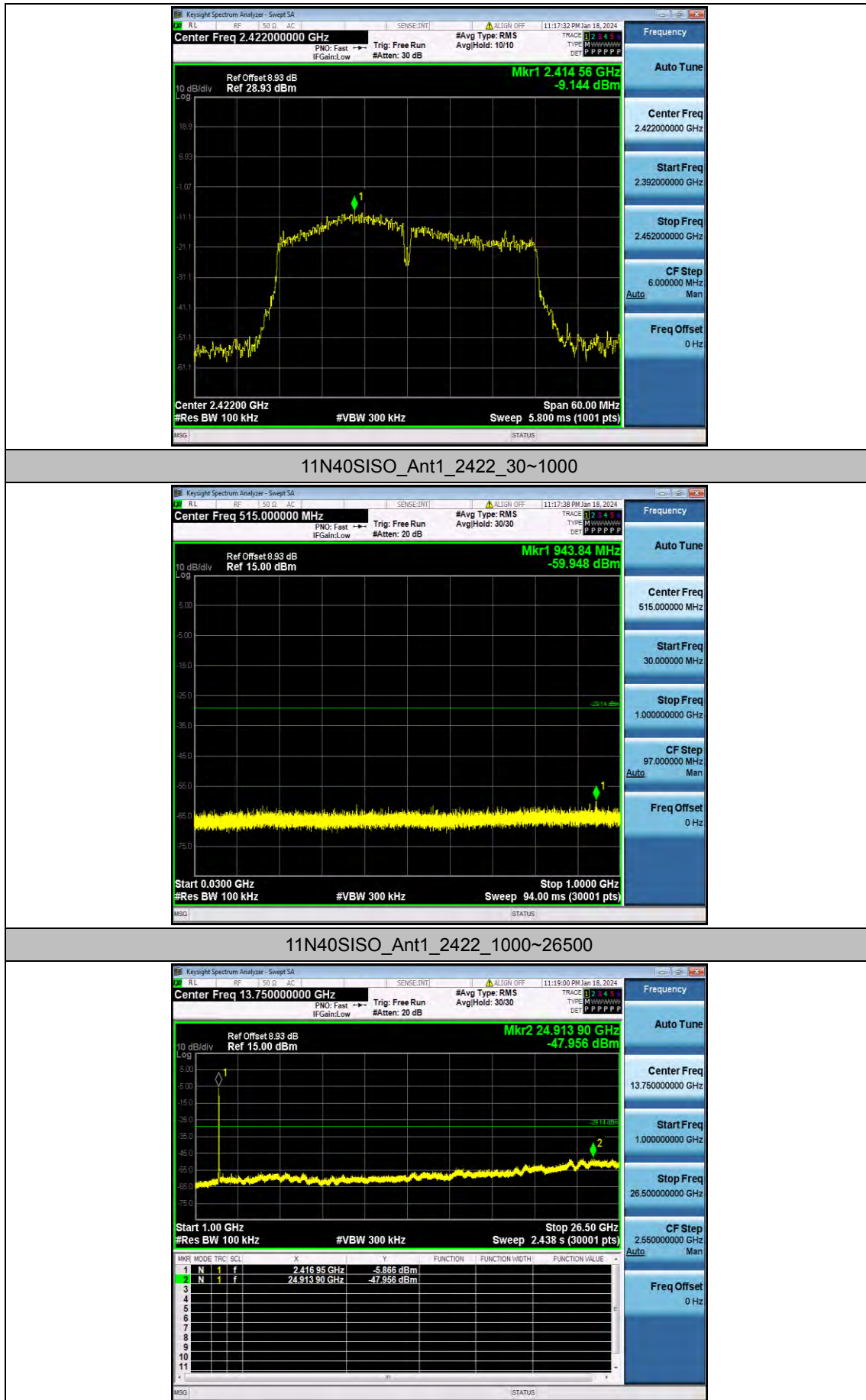
11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



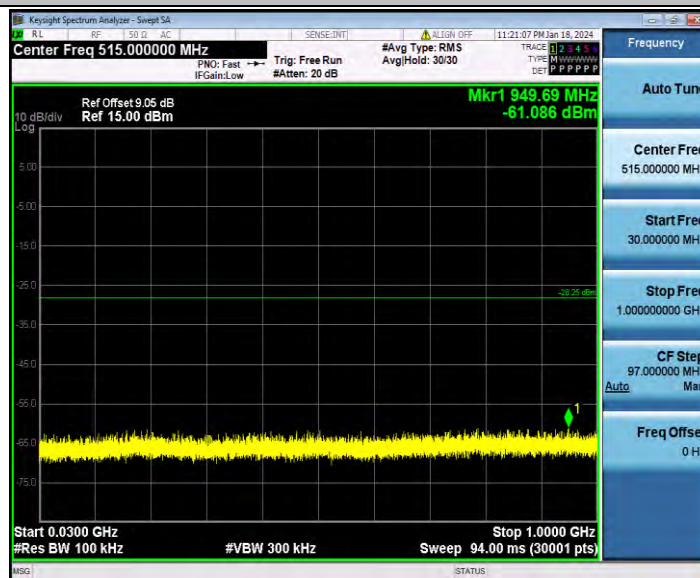
11N40SISO_Ant1_2422_0~Reference



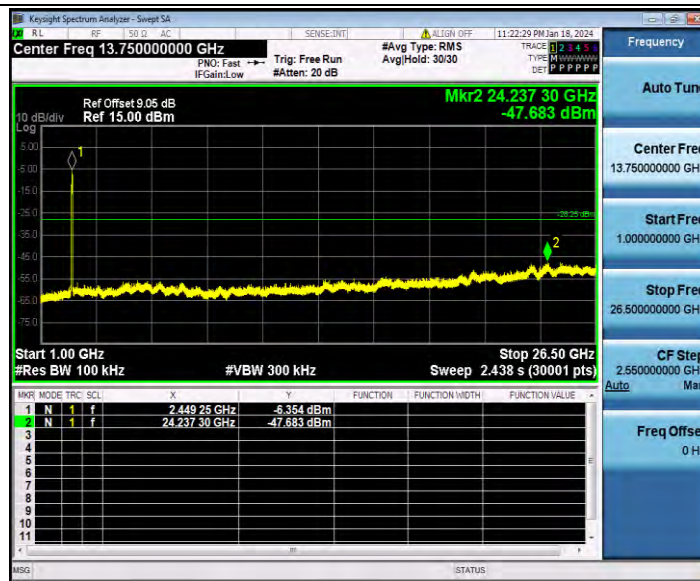
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



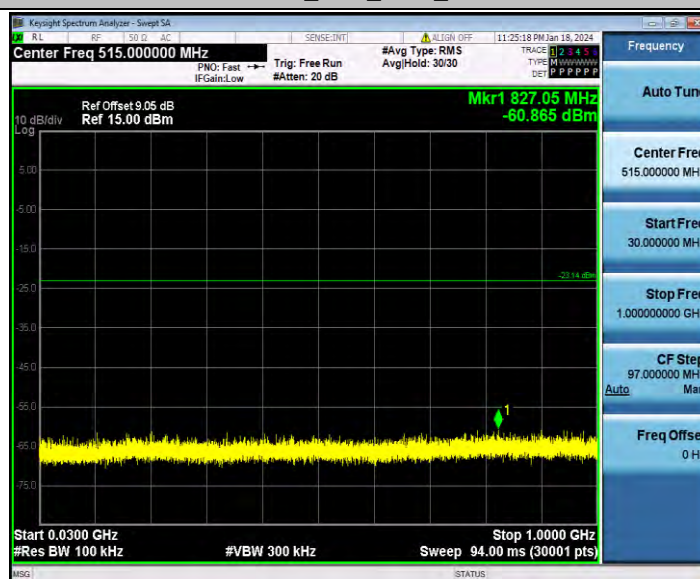
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





Appendix C.7: Emissions in Restricted Bands

Test Result

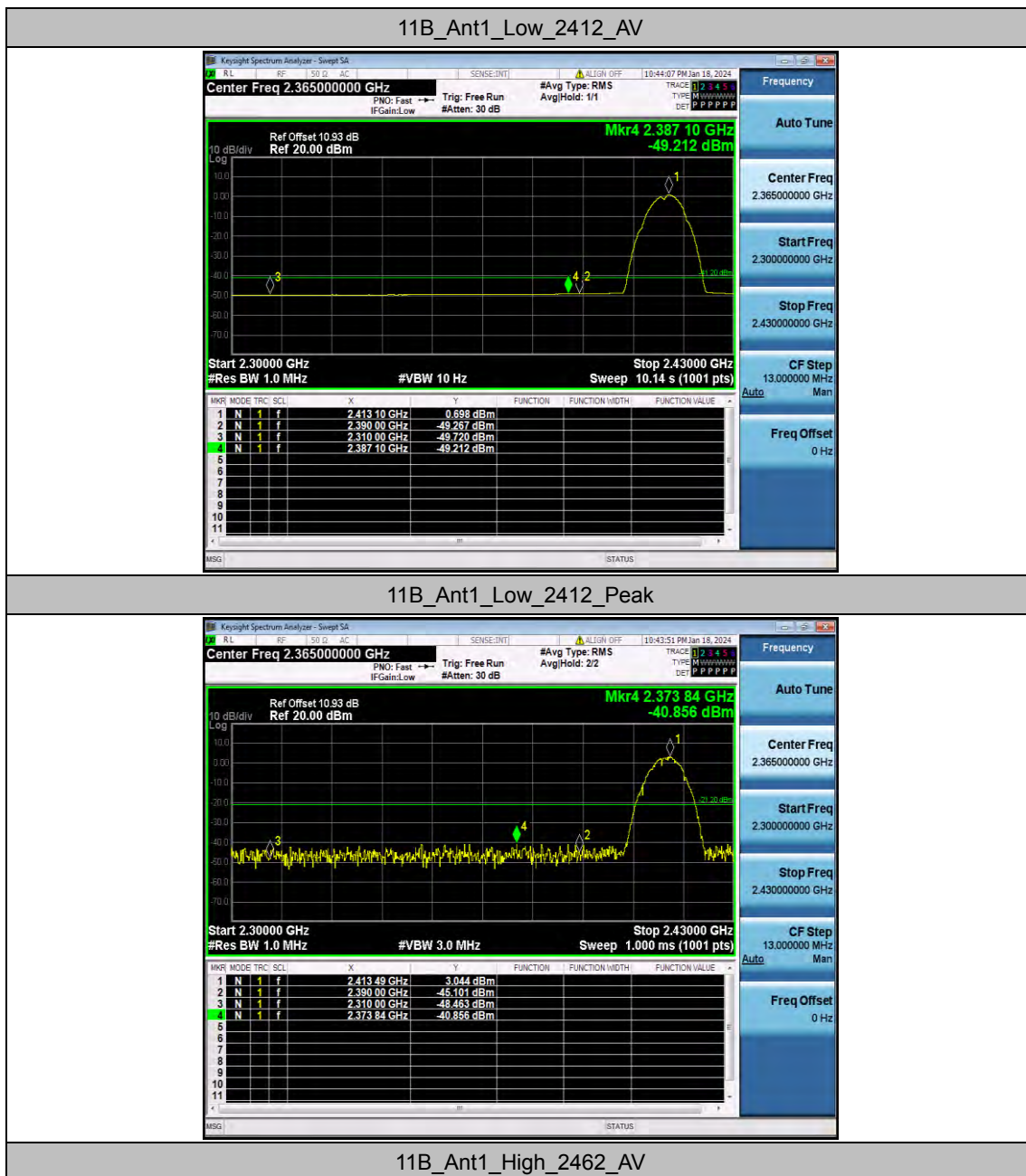
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.72	≤-41.20	45.48	≤54	PASS
				AV	2387.100	-49.21	≤-41.20	45.99	≤54	PASS
				AV	2390.000	-49.27	≤-41.20	45.93	≤54	PASS
				Peak	2310.000	-48.46	≤-21.20	46.74	≤74	PASS
				Peak	2373.840	-40.86	≤-21.20	54.34	≤74	PASS
				Peak	2390.000	-45.1	≤-21.20	50.10	≤74	PASS
		High	2462	AV	2483.500	-49.17	≤-41.20	46.03	≤54	PASS
				AV	2499.290	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2500.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2483.500	-41.59	≤-21.20	53.61	≤74	PASS
				Peak	2491.700	-39.76	≤-21.20	55.44	≤74	PASS
				Peak	2500.000	-49.12	≤-21.20	46.08	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.73	≤-41.20	45.47	≤54	PASS
				AV	2386.190	-49.04	≤-41.20	46.16	≤54	PASS
				AV	2390.000	-49.1	≤-41.20	46.10	≤54	PASS
				Peak	2310.000	-45.58	≤-21.20	49.62	≤74	PASS
				Peak	2351.350	-40.65	≤-21.20	54.55	≤74	PASS
				Peak	2390.000	-47.58	≤-21.20	47.62	≤74	PASS
		High	2462	AV	2483.500	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2489.170	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2500.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2483.500	-49.85	≤-21.20	45.35	≤74	PASS
				Peak	2484.550	-39.99	≤-21.20	55.21	≤74	PASS
				Peak	2500.000	-45.93	≤-21.20	49.27	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.71	≤-41.20	45.49	≤54	PASS
				AV	2387.230	-49.05	≤-41.20	46.15	≤54	PASS
				AV	2390.000	-49.14	≤-41.20	46.06	≤54	PASS
				Peak	2310.000	-51.08	≤-21.20	44.12	≤74	PASS
				Peak	2321.710	-41.05	≤-21.20	54.15	≤74	PASS
				Peak	2390.000	-41.45	≤-21.20	53.75	≤74	PASS
		High	2462	AV	2483.500	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2490.270	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2500.000	-49.02	≤-41.20	46.18	≤54	PASS
				Peak	2483.500	-46.38	≤-21.20	48.82	≤74	PASS
				Peak	2497.750	-40.46	≤-21.20	54.74	≤74	PASS
				Peak	2500.000	-47.16	≤-21.20	48.04	≤74	PASS

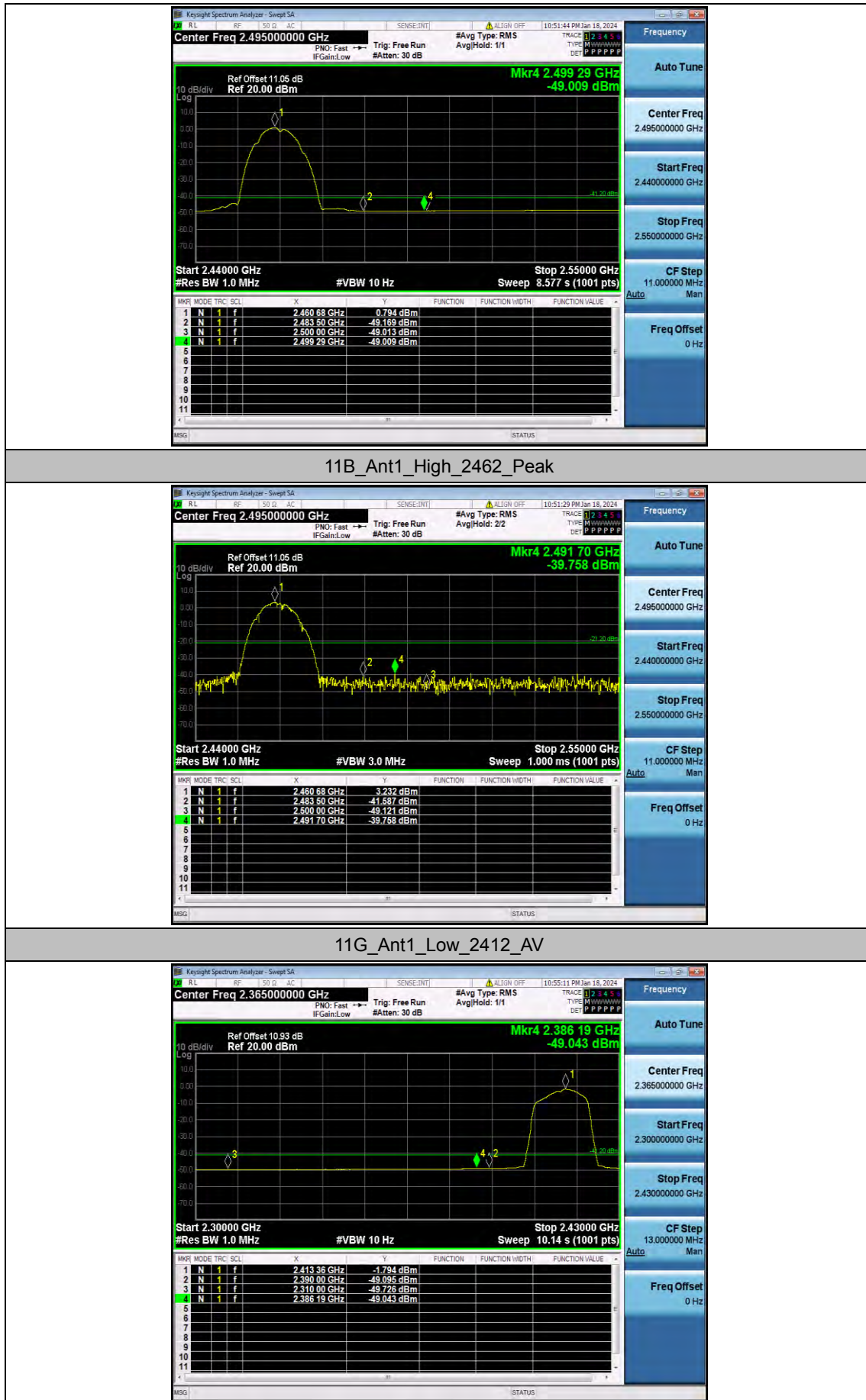
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.7	≤-41.20	45.50	≤54	PASS
				AV	2389.700	-48.76	≤-41.20	46.44	≤54	PASS
				AV	2390.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2310.000	-46.64	≤-21.20	48.56	≤74	PASS
				Peak	2388.010	-40.27	≤-21.20	54.93	≤74	PASS
				Peak	2390.000	-44.33	≤-21.20	50.87	≤74	PASS
		High	2452	AV	2483.500	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2483.890	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2500.000	-48.98	≤-41.20	46.22	≤54	PASS
				Peak	2483.500	-45.72	≤-21.20	49.48	≤74	PASS
				Peak	2494.340	-42.16	≤-21.20	53.04	≤74	PASS
				Peak	2500.000	-44.74	≤-21.20	50.46	≤74	PASS

Note:

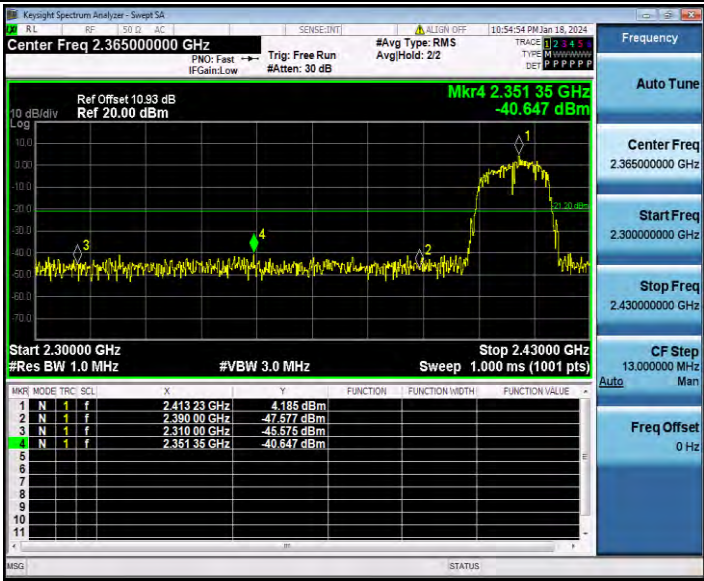
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





11G_Ant1_Low_2412_Peak



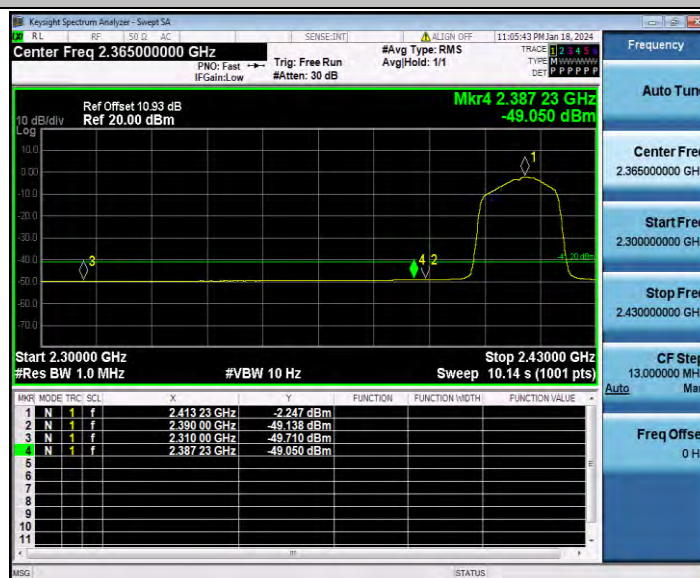
11G_Ant1_High_2462_AV



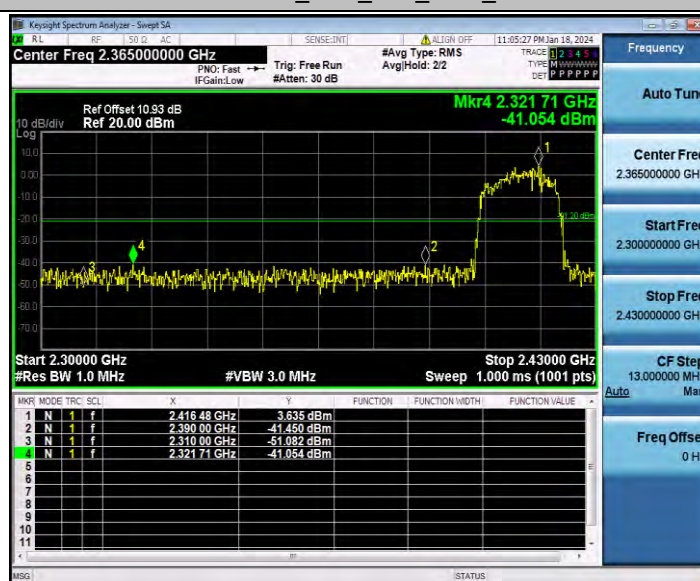
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



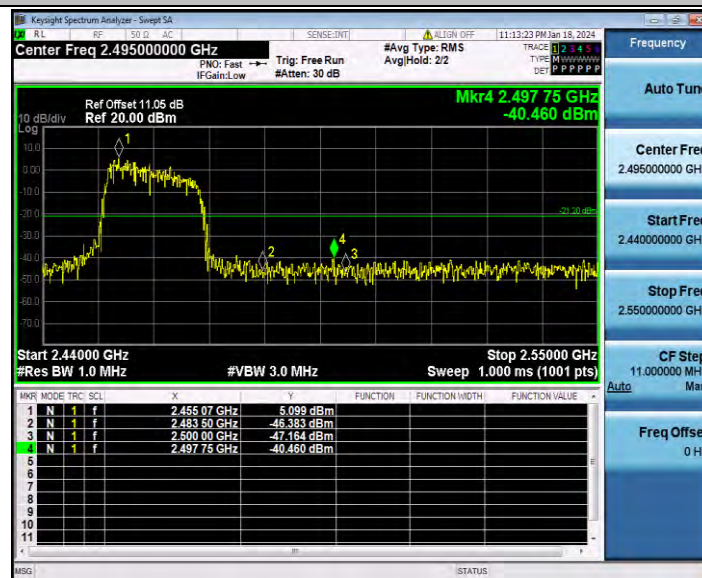
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

