

Case No. : <u>GTS20241220006-1-01</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH,	
Test Date: <u>2025.1.20</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.480	2415.560	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	8.560	2457.480	2466.040	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.200	2420.520	0.5	PASS
		2437	17.520	2428.240	2445.760	0.5	PASS
		2462	17.360	2453.200	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.840	2404.000	2439.840	0.5	PASS
		2437	36.080	2418.840	2454.920	0.5	PASS
		2452	36.080	2433.840	2469.920	0.5	PASS

Test Graphs

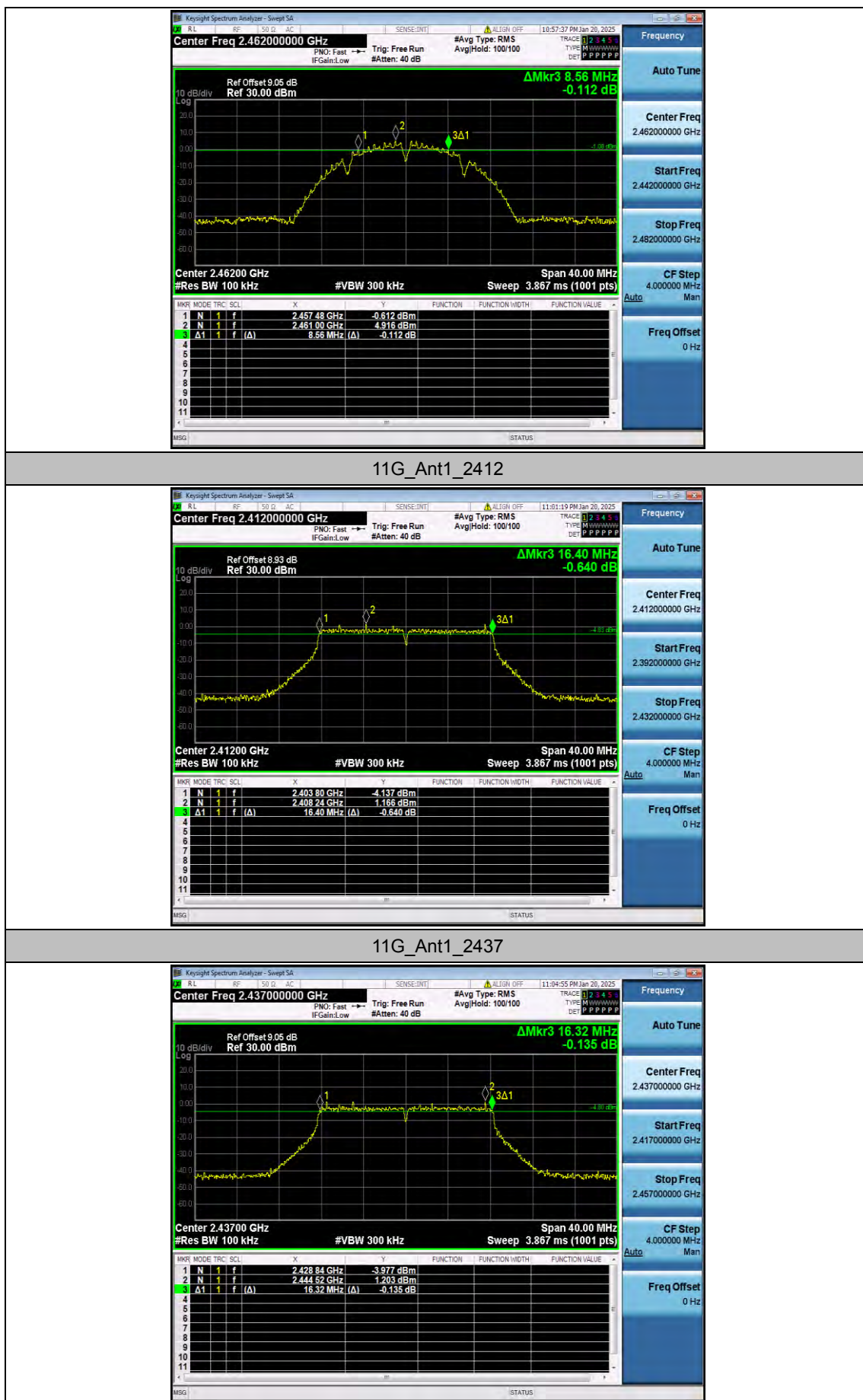
11B_Ant1_2412



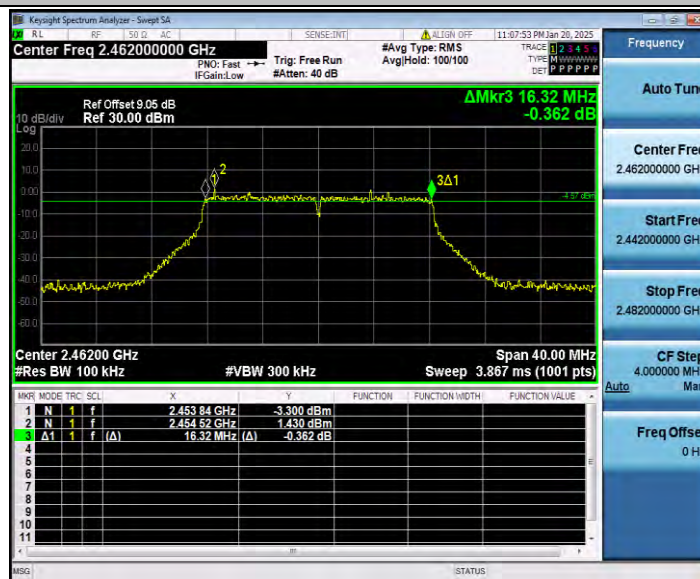
11B_Ant1_2437



11B_Ant1_2462



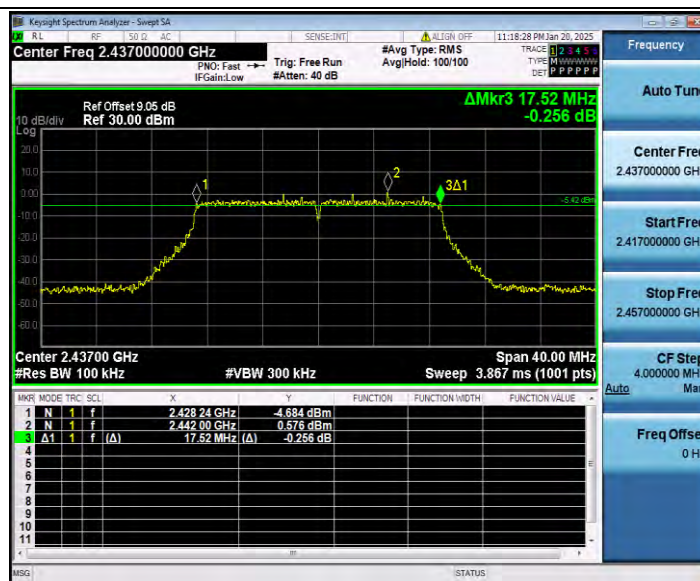
11G_Ant1_2462



11N20SISO_Ant1_2412



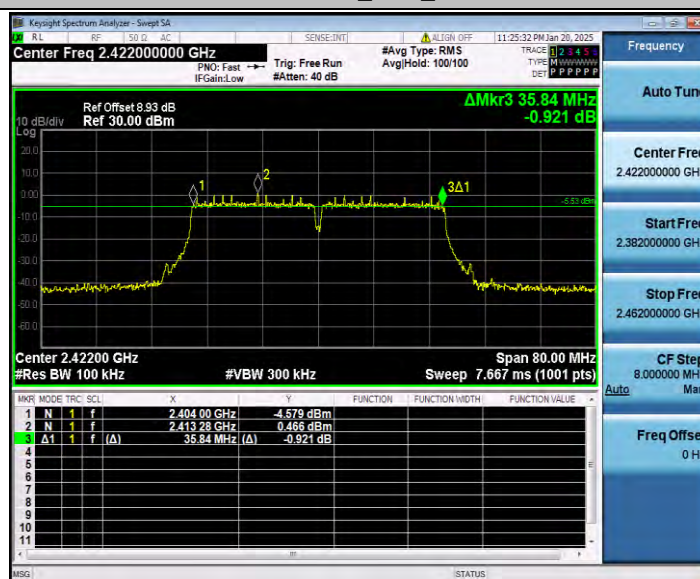
11N20SISO_Ant1_2437



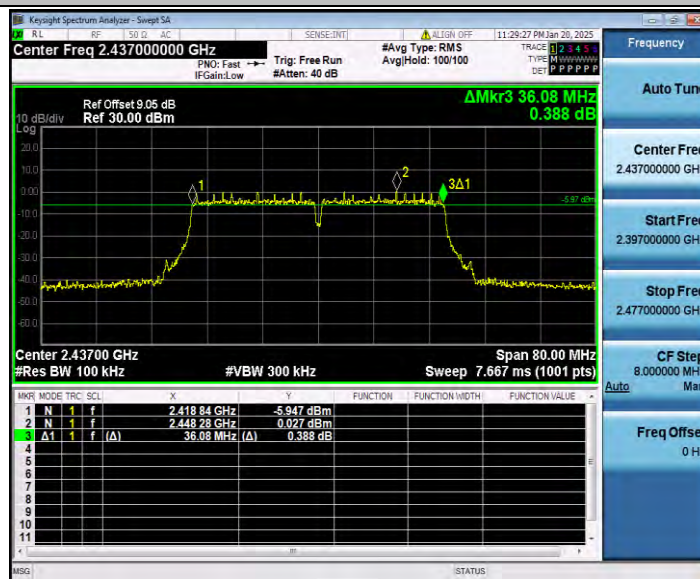
11N20SISO_Ant1_2462



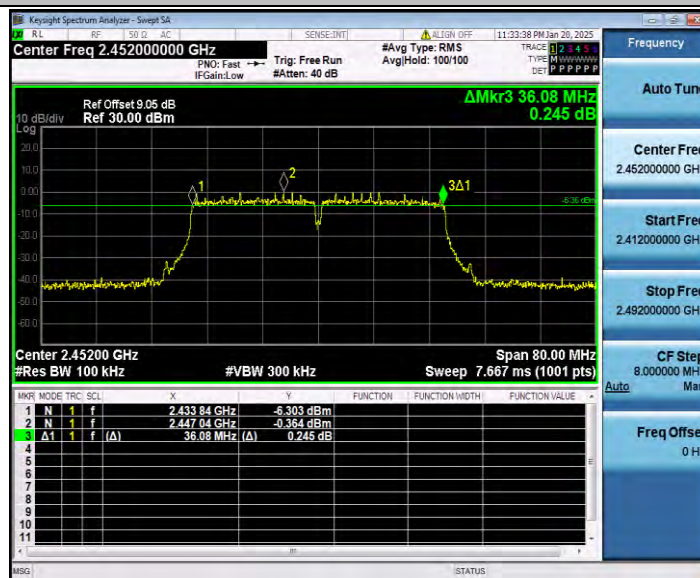
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.643	2405.1345	2418.7775	---	---
		2437	13.644	2430.2154	2443.8594	---	---
		2462	13.586	2455.1468	2468.7328	---	---
11G	Ant1	2412	17.059	2403.4747	2420.5337	---	---
		2437	17.135	2428.4111	2445.5461	---	---
		2462	16.985	2453.4165	2470.4015	---	---
11N20SISO	Ant1	2412	18.044	2402.9158	2420.9598	---	---
		2437	18.078	2427.9423	2446.0203	---	---
		2462	18.072	2452.9504	2471.0224	---	---
11N40SISO	Ant1	2422	36.411	2403.8238	2440.2348	---	---
		2437	36.394	2418.8343	2455.2283	---	---
		2452	36.364	2433.8008	2470.1648	---	---

Test Graphs

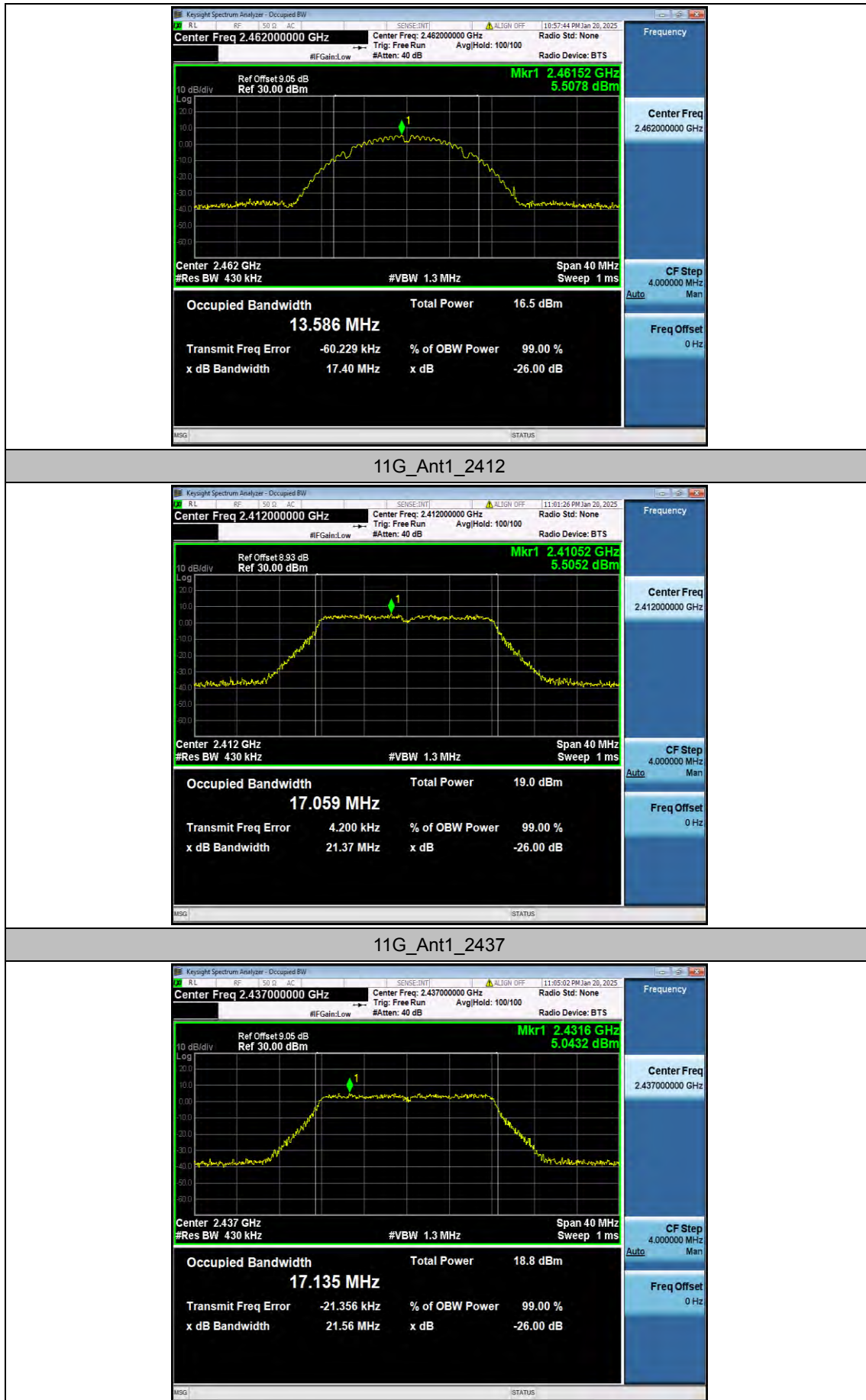
11B_Ant1_2412



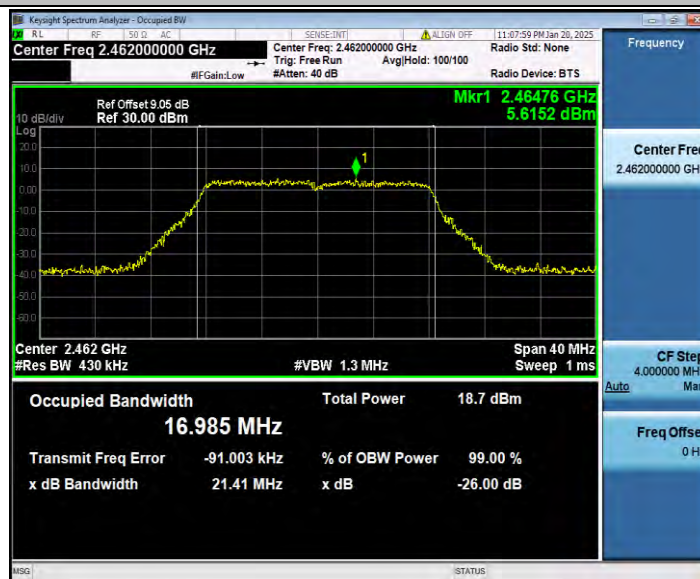
11B_Ant1_2437



11B_Ant1_2462



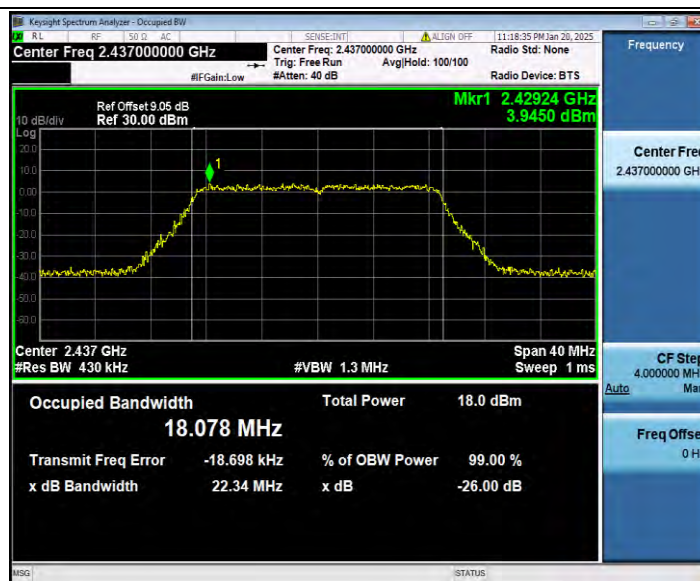
11G_Ant1_2462



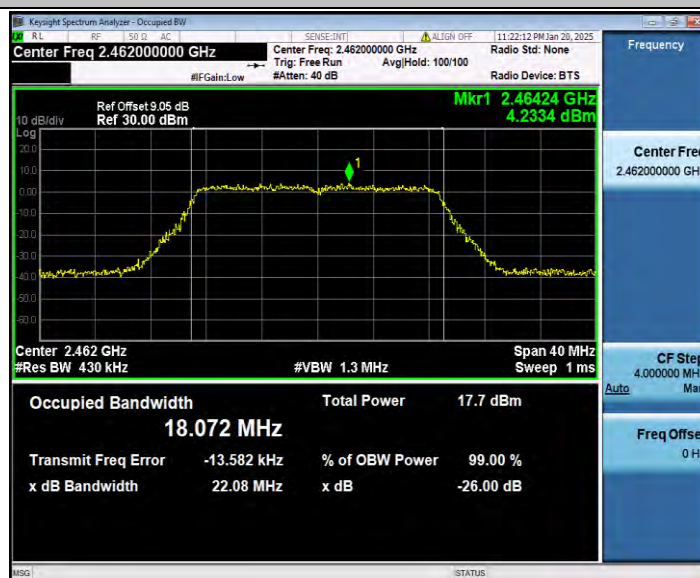
11N20SISO_Ant1_2412



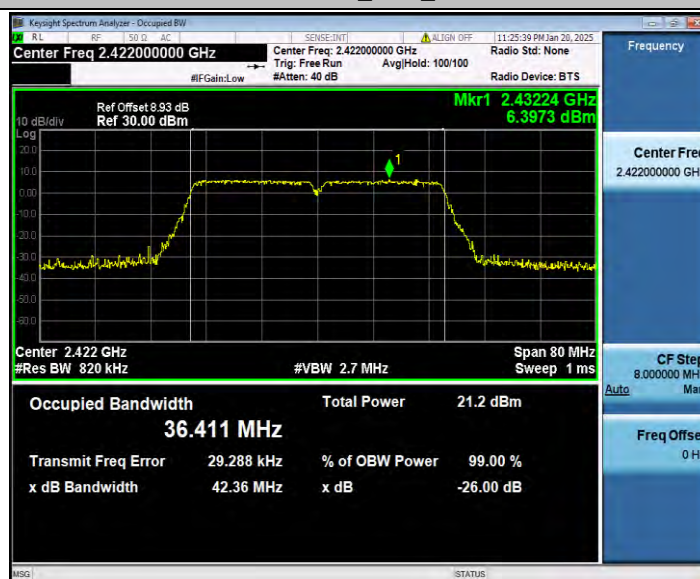
11N20SISO_Ant1_2437



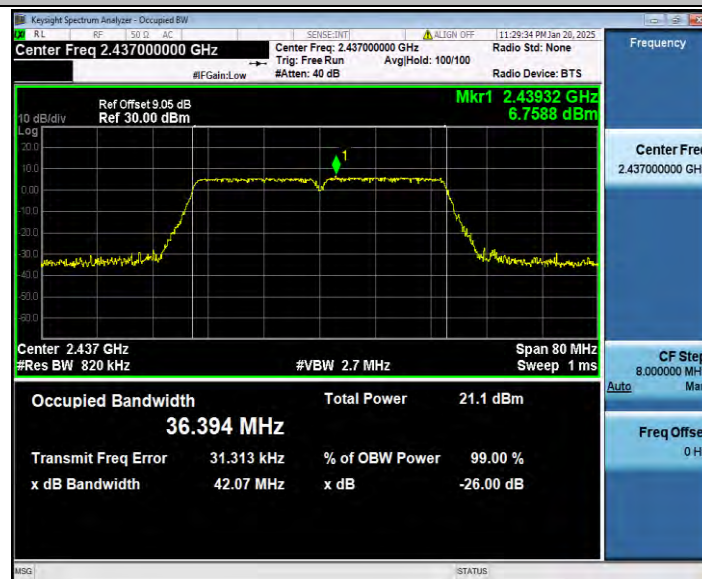
11N20SISO_Ant1_2462



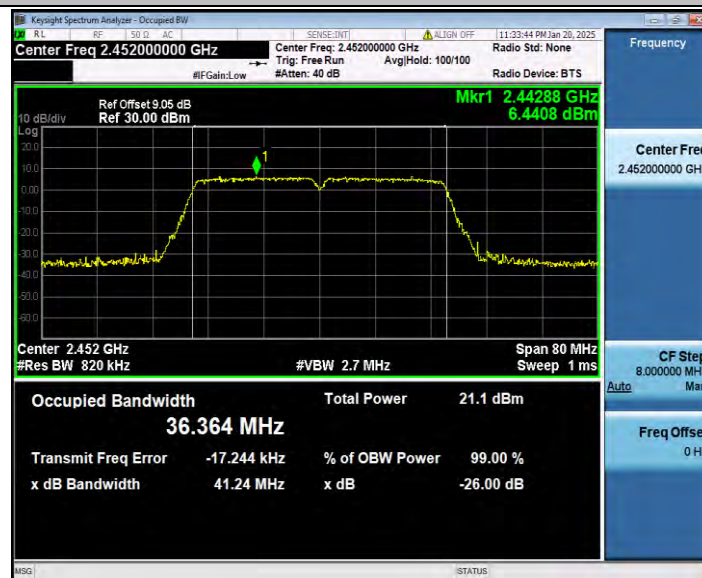
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.66	≤30.00	PASS
		2437	16.50	≤30.00	PASS
		2462	16.59	≤30.00	PASS
11G	Ant1	2412	20.28	≤30.00	PASS
		2437	20.06	≤30.00	PASS
		2462	19.89	≤30.00	PASS
11N20SISO	Ant1	2412	19.56	≤30.00	PASS
		2437	19.21	≤30.00	PASS
		2462	19.01	≤30.00	PASS
11N40SISO	Ant1	2422	21.52	≤30.00	PASS
		2437	21.56	≤30.00	PASS
		2452	21.48	≤30.00	PASS

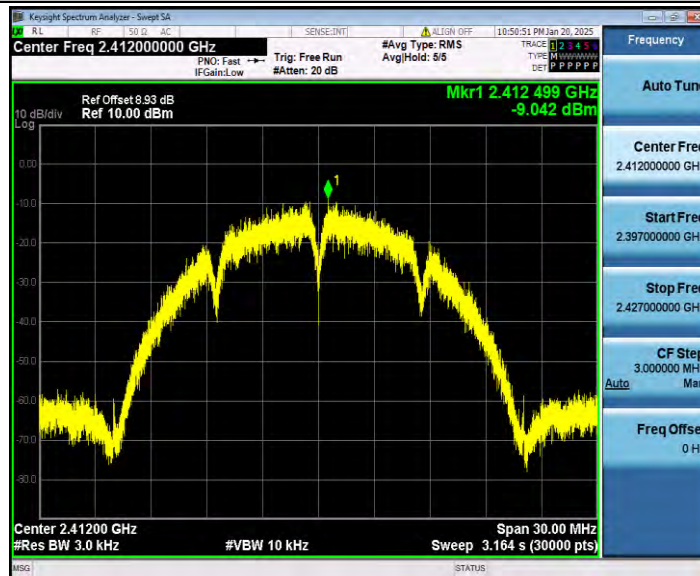
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.04	≤8.00	PASS
		2437	-9.73	≤8.00	PASS
		2462	-8.58	≤8.00	PASS
11G	Ant1	2412	-12.86	≤8.00	PASS
		2437	-11.70	≤8.00	PASS
		2462	-12.96	≤8.00	PASS
11N20SISO	Ant1	2412	-11.82	≤8.00	PASS
		2437	-13.52	≤8.00	PASS
		2462	-14.04	≤8.00	PASS
11N40SISO	Ant1	2422	-14.44	≤8.00	PASS
		2437	-13.88	≤8.00	PASS
		2452	-14.97	≤8.00	PASS

Test Graphs

11B_Ant1_2412



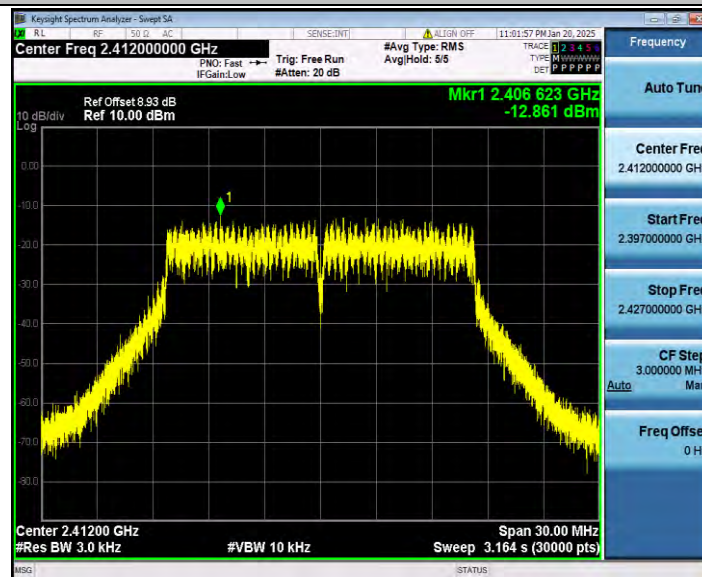
11B_Ant1_2437



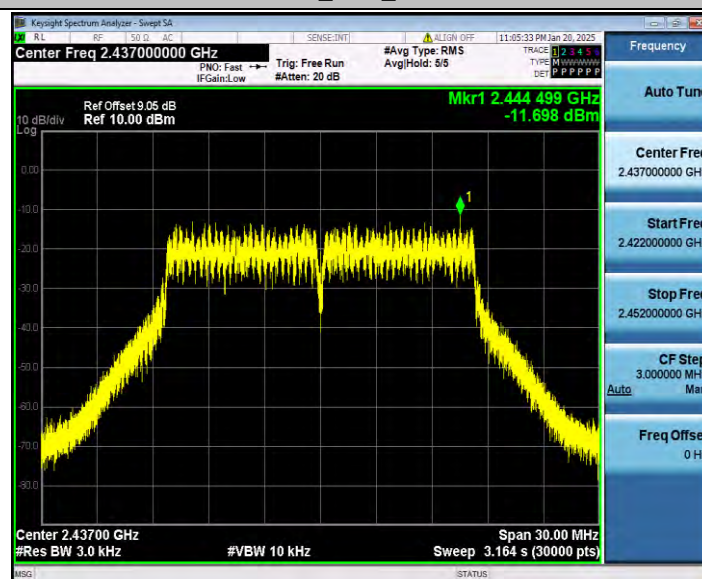
11B_Ant1_2462



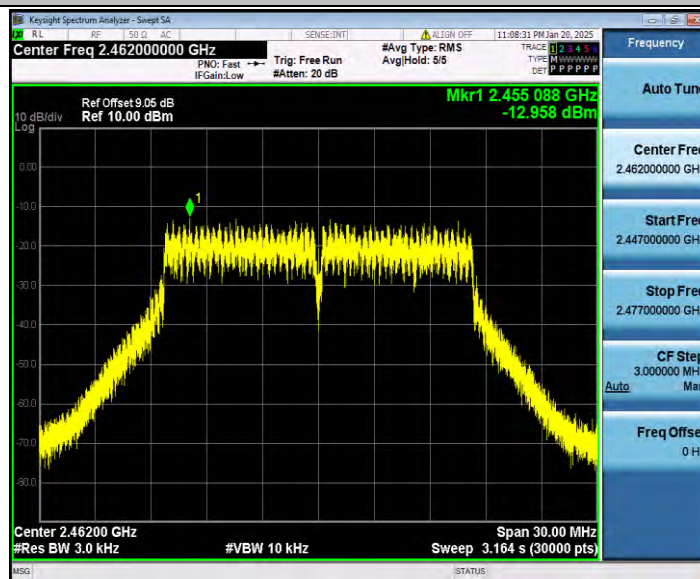
11G_Ant1_2412



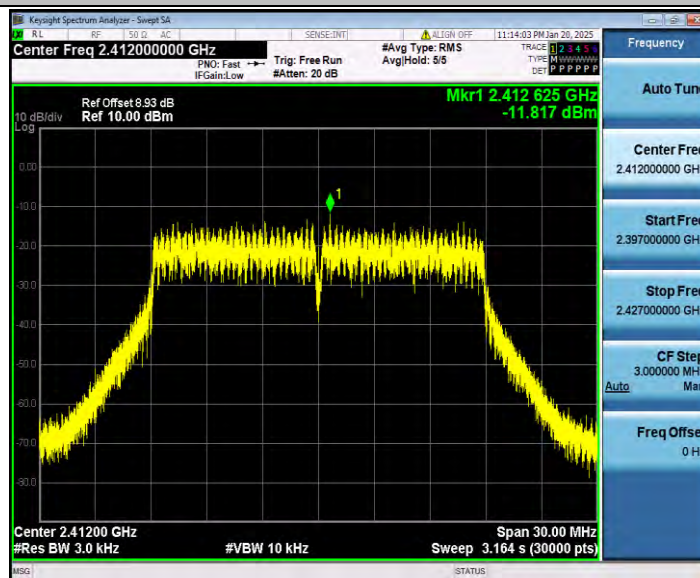
11G_Ant1_2437



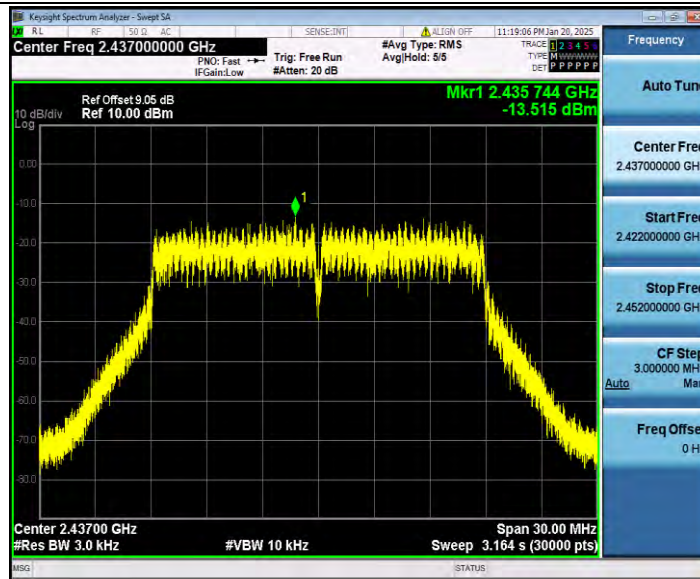
11G_Ant1_2462



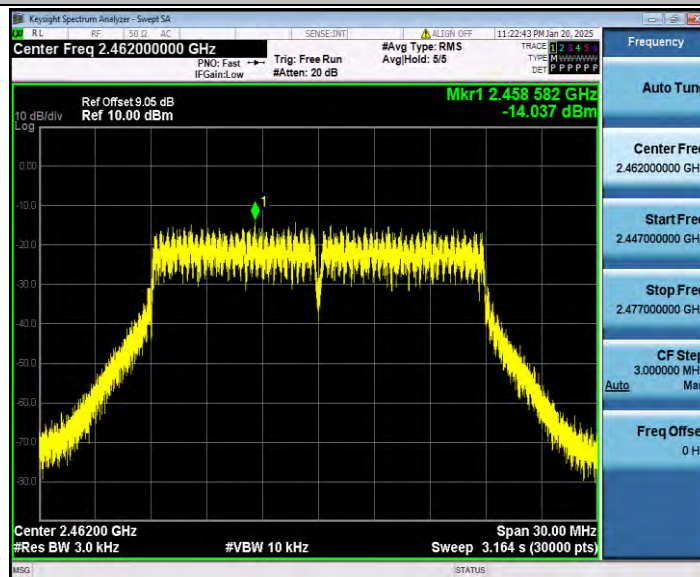
11N20SISO_Ant1_2412



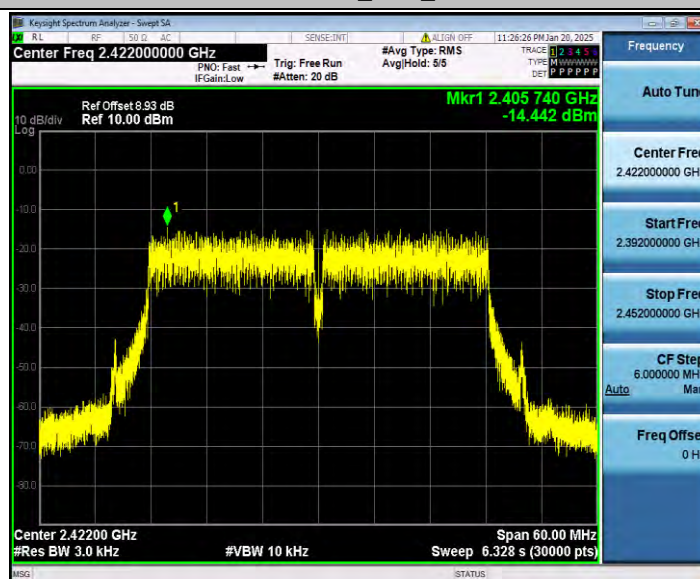
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



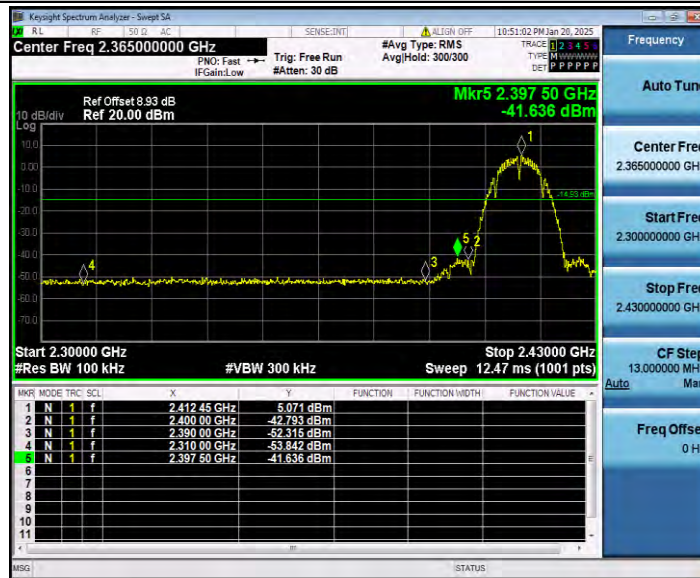
Appendix A.5: Band edge measurements

Test Result

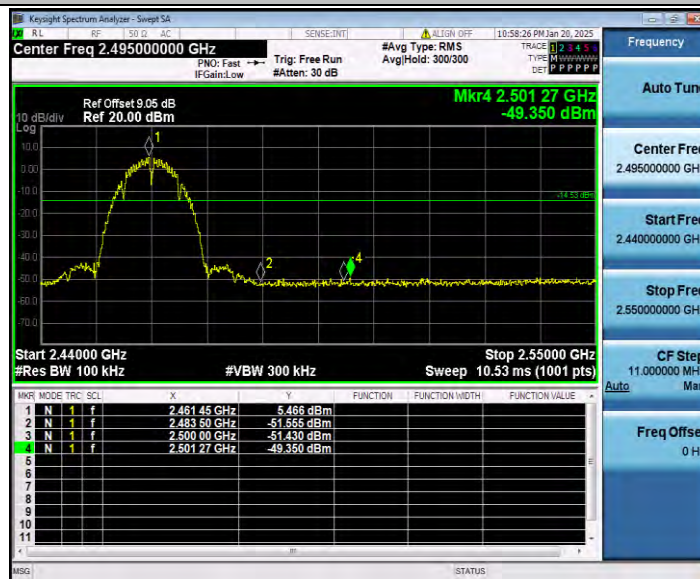
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.07	-41.64	≤ -14.93	PASS
		High	2462	5.47	-49.35	≤ -14.53	PASS
11G	Ant1	Low	2412	1.79	-35.7	≤ -18.21	PASS
		High	2462	1.47	-48.81	≤ -18.53	PASS
11N20SISO	Ant1	Low	2412	1.09	-37.07	≤ -18.91	PASS
		High	2462	0.54	-47.26	≤ -19.46	PASS
11N40SISO	Ant1	Low	2422	0.00	-32.81	≤ -20	PASS
		High	2452	0.28	-45.47	≤ -19.72	PASS

Test Graphs

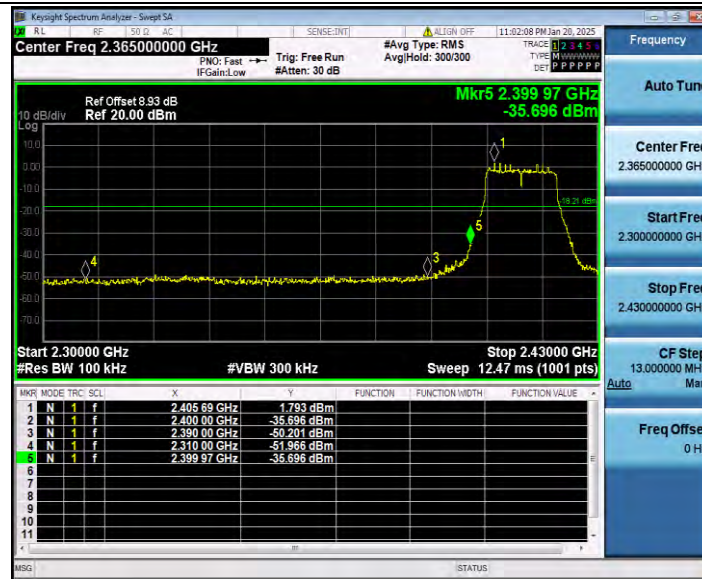
11B_Ant1_Low_2412



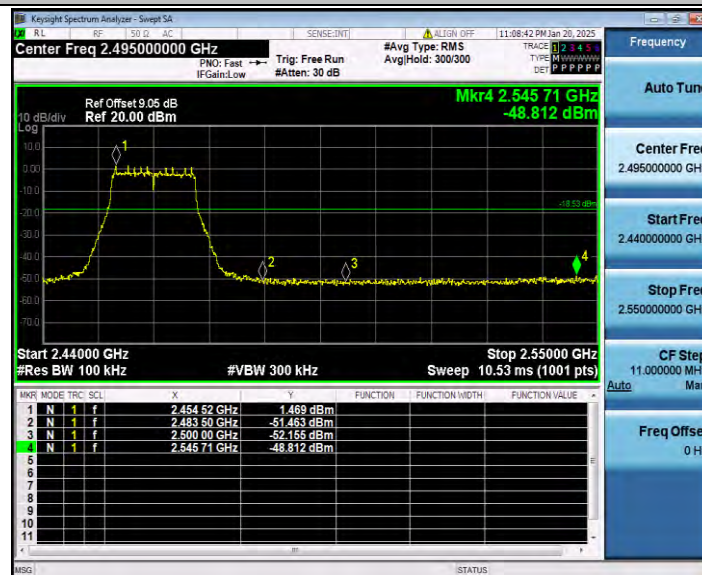
11B_Ant1_High_2462



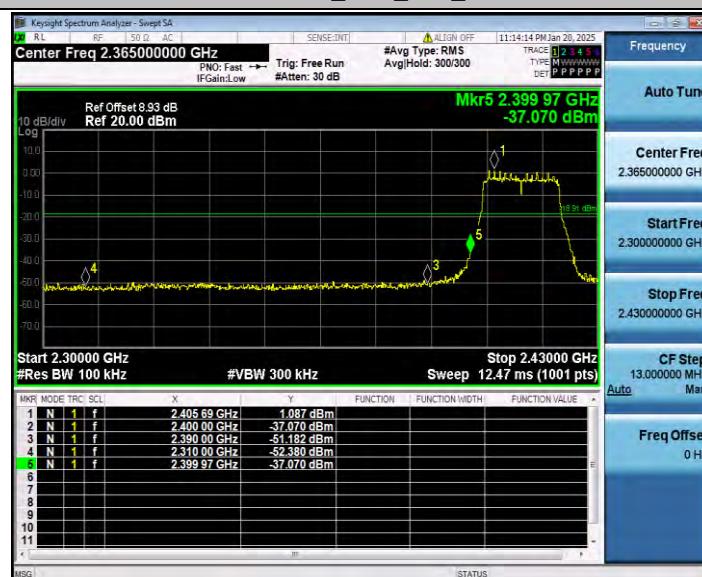
11G_Ant1_Low_2412



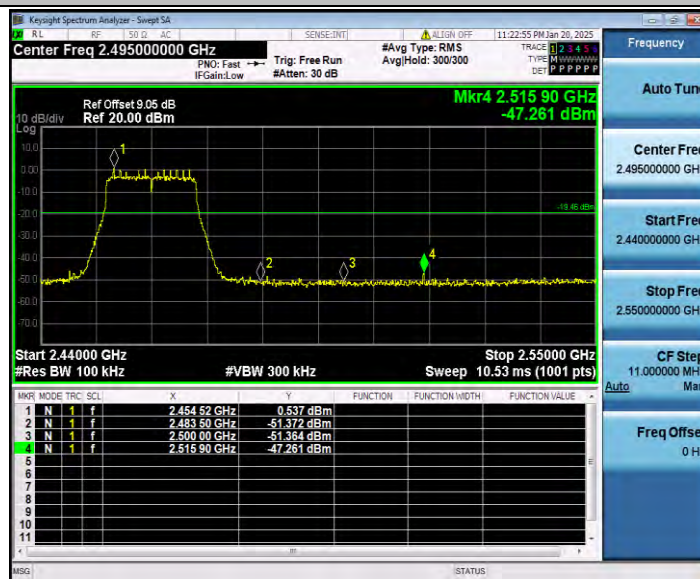
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

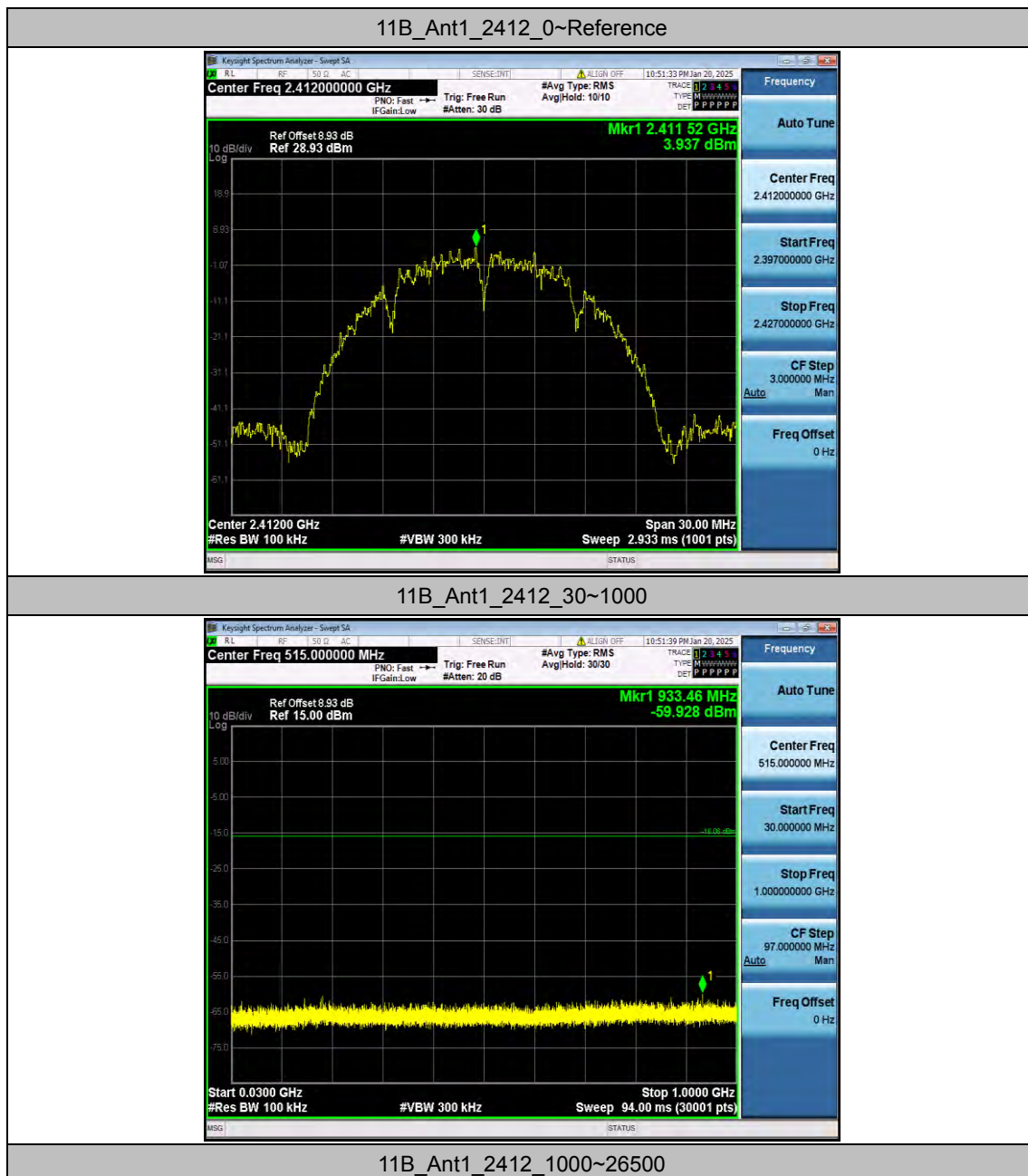


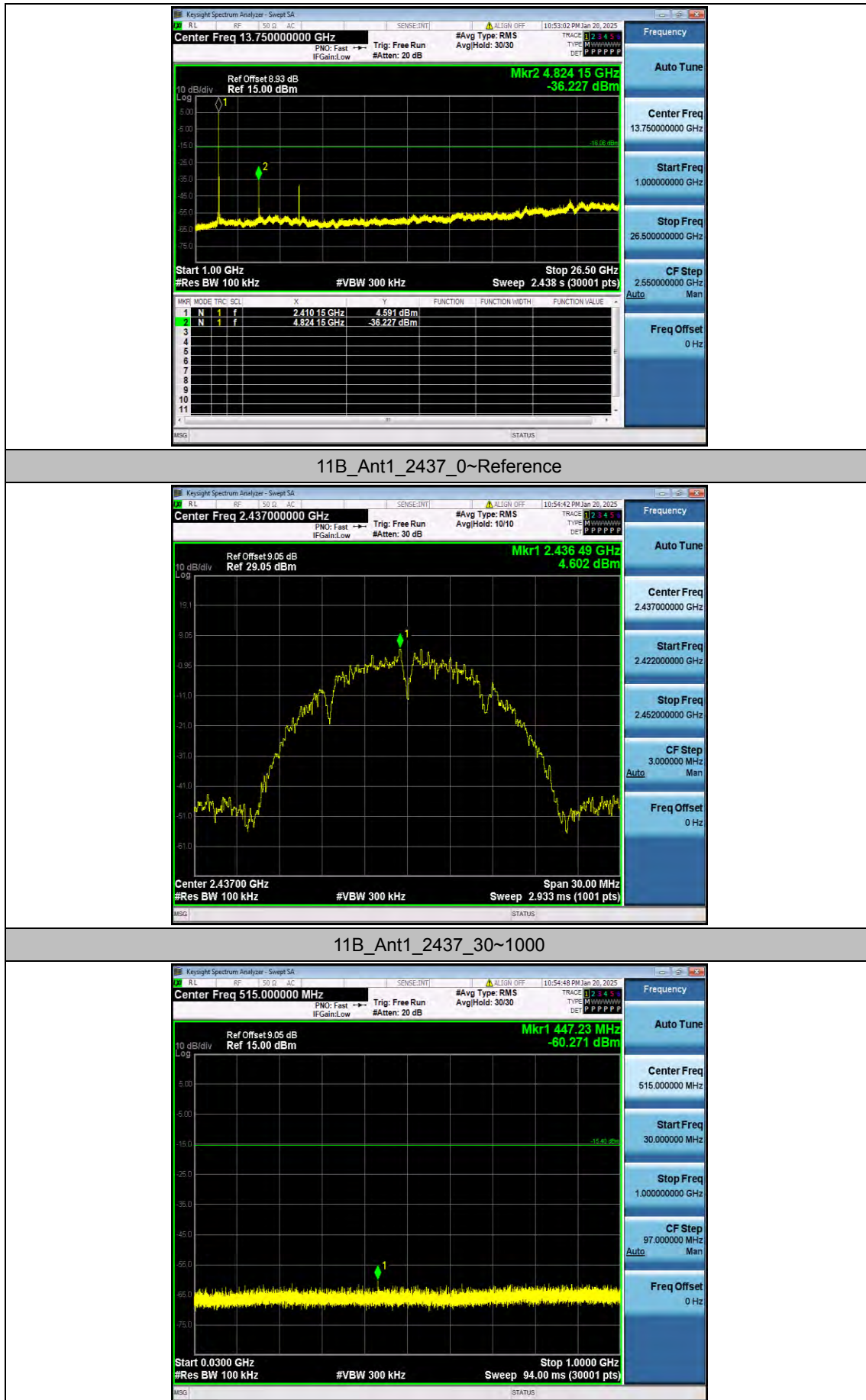
Appendix A.6: Conducted Spurious Emission

Test Result

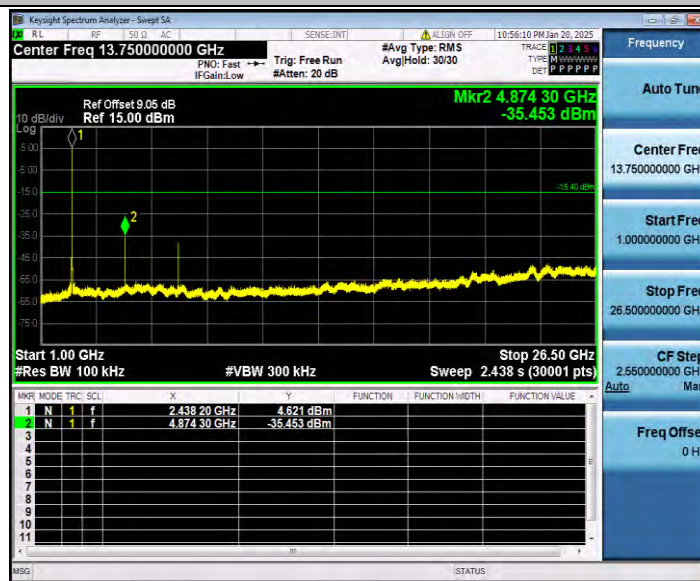
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.94	3.94	---	PASS
			30~1000	3.94	-59.93	≤ -16.06	PASS
			1000~26500	3.94	-36.23	≤ -16.06	PASS
		2437	Reference	4.60	4.60	---	PASS
			30~1000	4.60	-60.27	≤ -15.4	PASS
			1000~26500	4.60	-35.45	≤ -15.4	PASS
		2462	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-60.17	≤ -16.51	PASS
			1000~26500	3.49	-37.48	≤ -16.51	PASS
11G	Ant1	2412	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-60.94	≤ -19.11	PASS
			1000~26500	0.89	-40	≤ -19.11	PASS
		2437	Reference	0.83	0.83	---	PASS
			30~1000	0.83	-60.86	≤ -19.17	PASS
			1000~26500	0.83	-40.8	≤ -19.17	PASS
		2462	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-60.69	≤ -19.78	PASS
			1000~26500	0.22	-41.71	≤ -19.78	PASS
11N20SISO	Ant1	2412	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-60.62	≤ -20.78	PASS
			1000~26500	-0.78	-43.32	≤ -20.78	PASS
		2437	Reference	-3.02	-3.02	---	PASS
			30~1000	-3.02	-60.28	≤ -23.02	PASS
			1000~26500	-3.02	-43.79	≤ -23.02	PASS
		2462	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-60.7	≤ -20.26	PASS
			1000~26500	-0.26	-45.66	≤ -20.26	PASS
11N40SISO	Ant1	2422	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-60.99	≤ -20.62	PASS
			1000~26500	-0.62	-40.7	≤ -20.62	PASS
		2437	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-59.95	≤ -20.52	PASS
			1000~26500	-0.52	-38.43	≤ -20.52	PASS
		2452	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-60.27	≤ -21.48	PASS
			1000~26500	-1.48	-40.76	≤ -21.48	PASS

Test Graphs





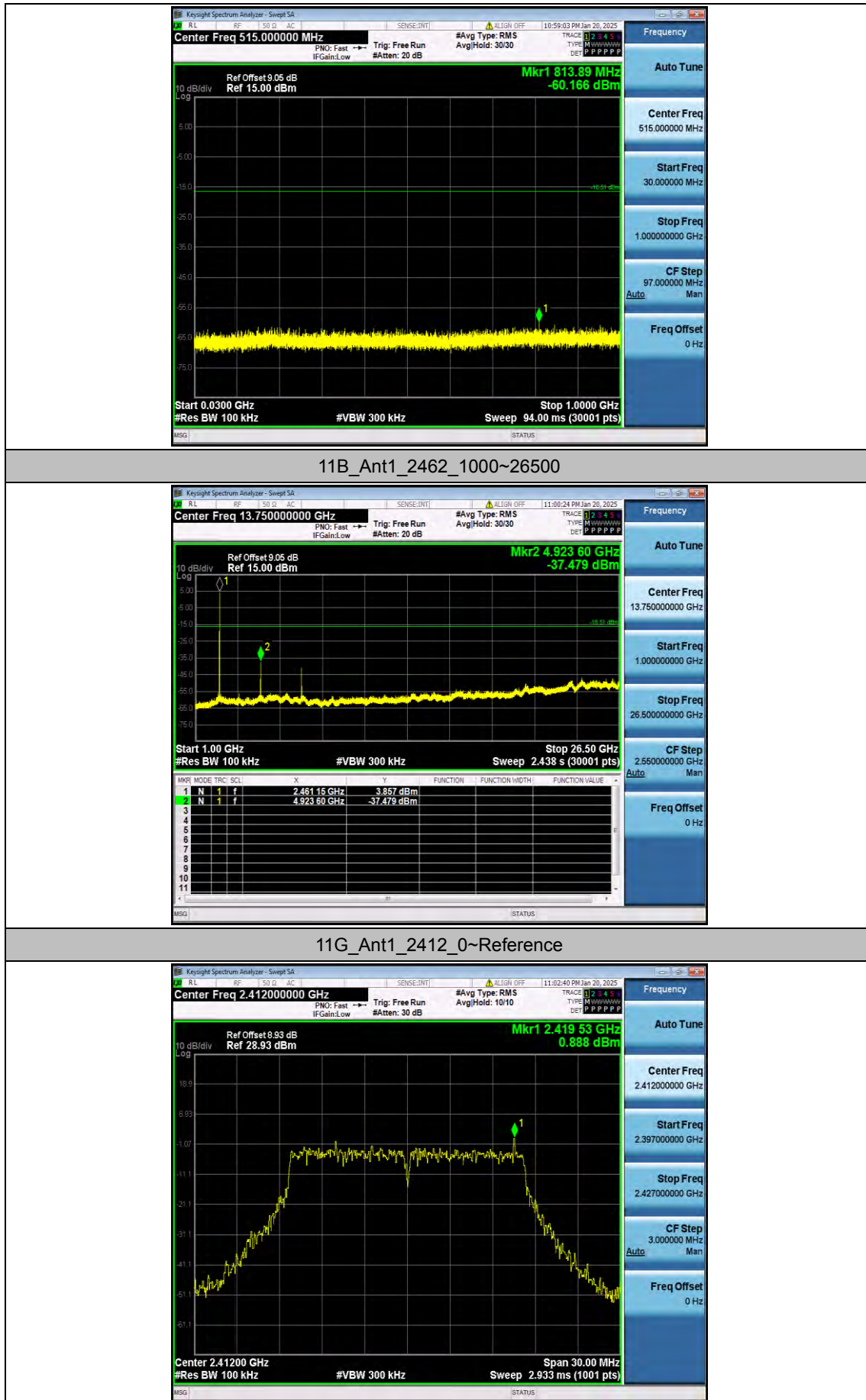
11B_Ant1_2437_1000~26500



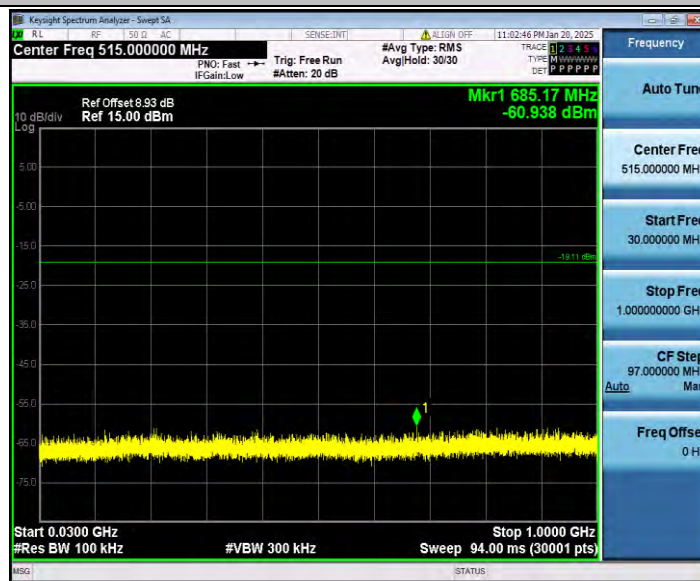
11B_Ant1_2462_0~Reference



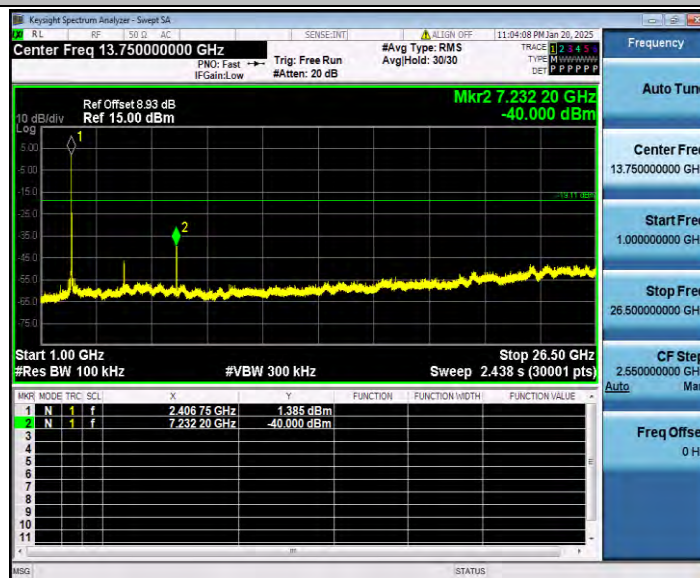
11B_Ant1_2462_30~1000



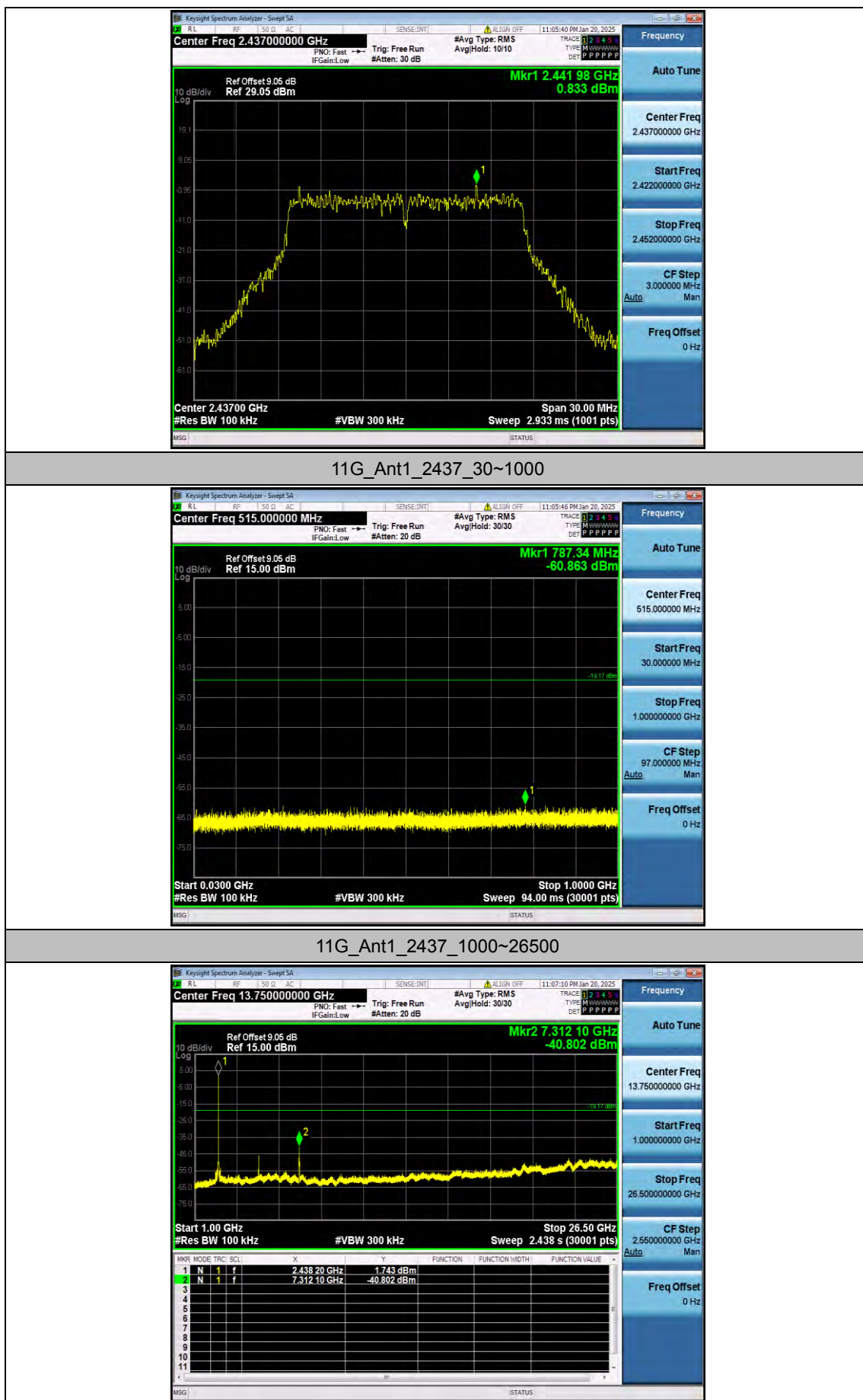
11G_Ant1_2412_30~1000



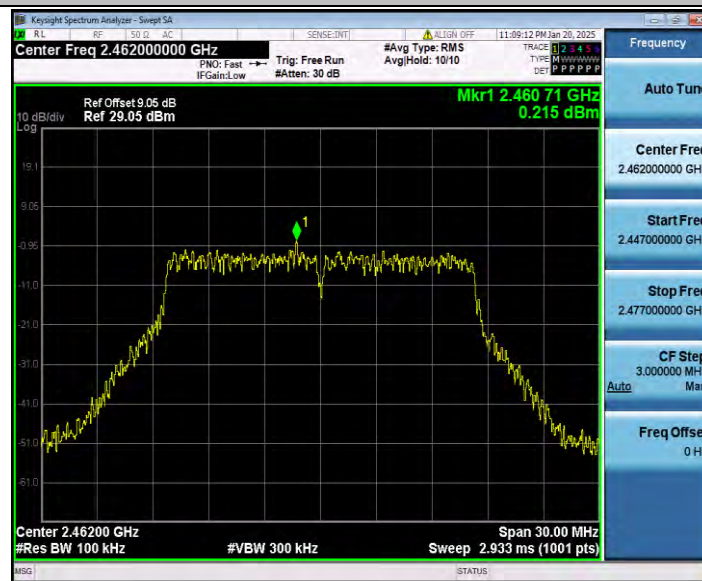
11G_Ant1_2412_1000~26500



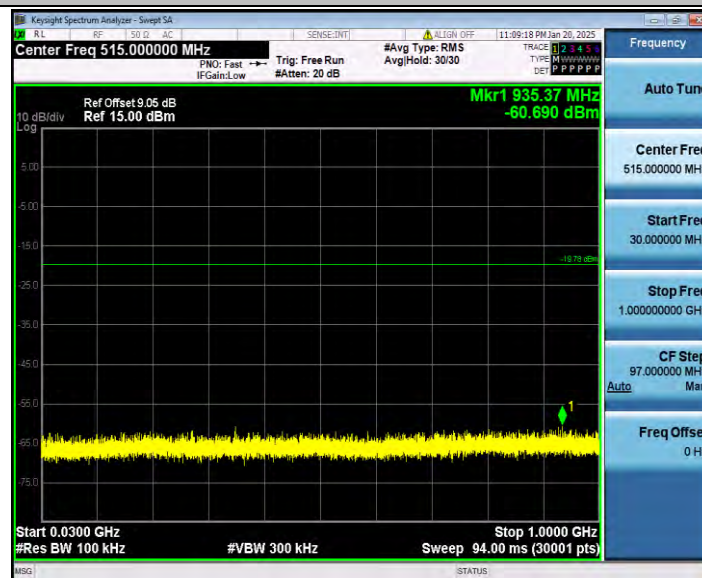
11G_Ant1_2437_0~Reference



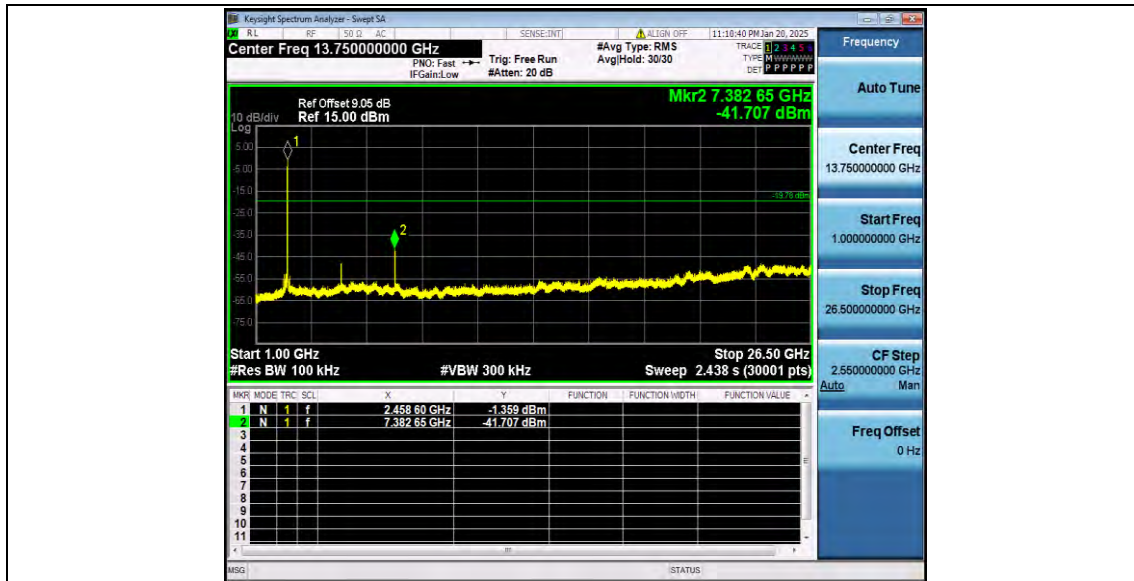
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



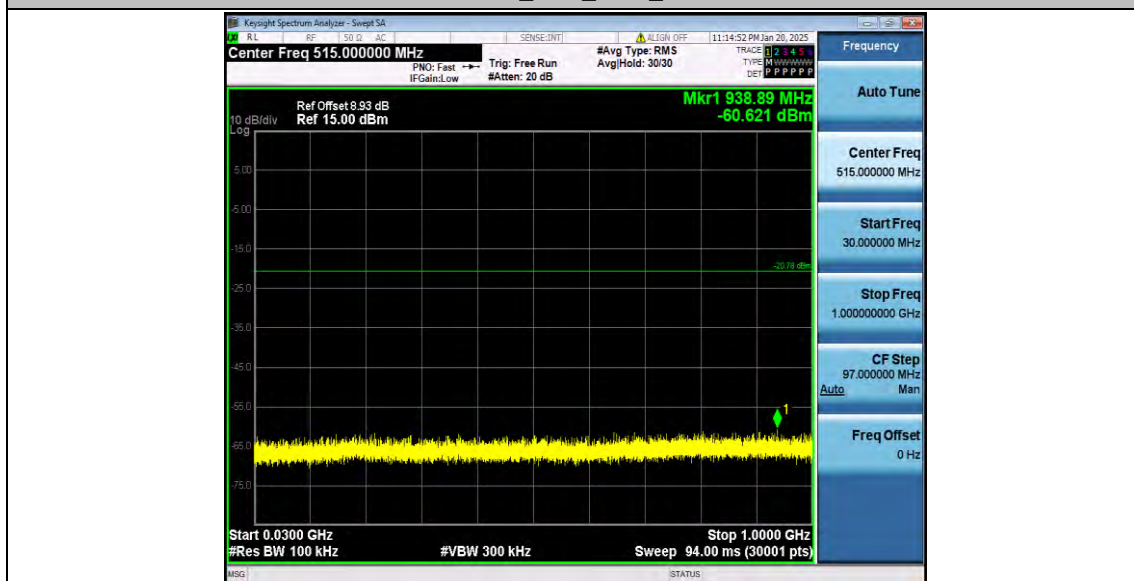
11G_Ant1_2462_1000~26500



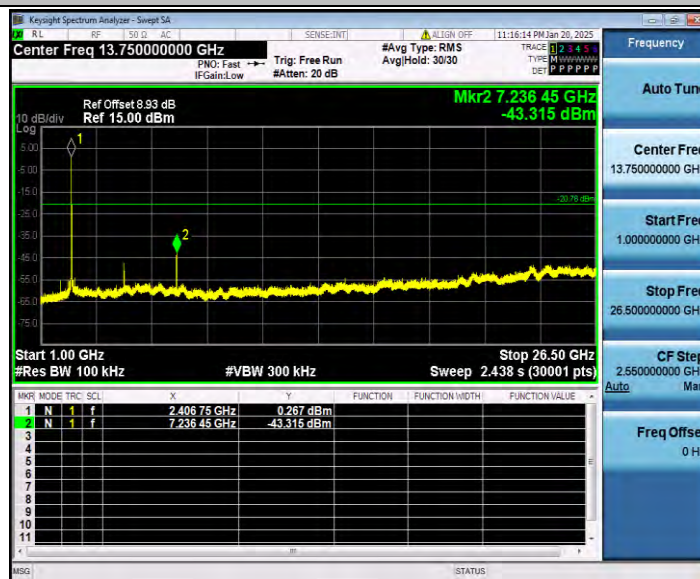
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



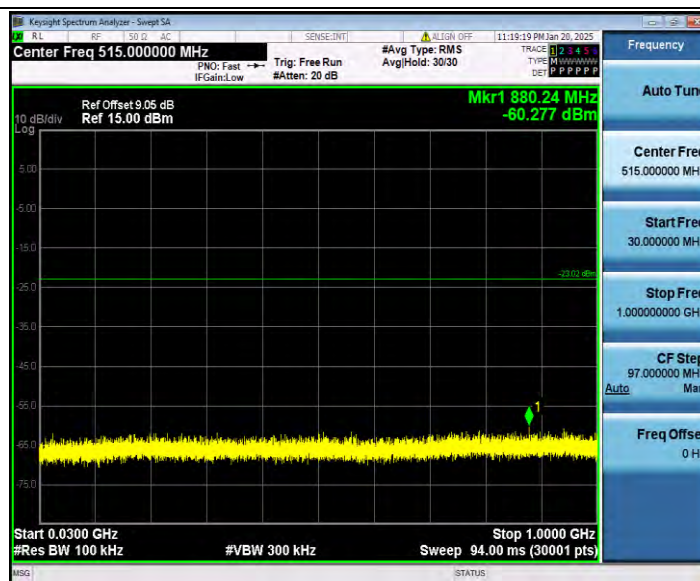
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



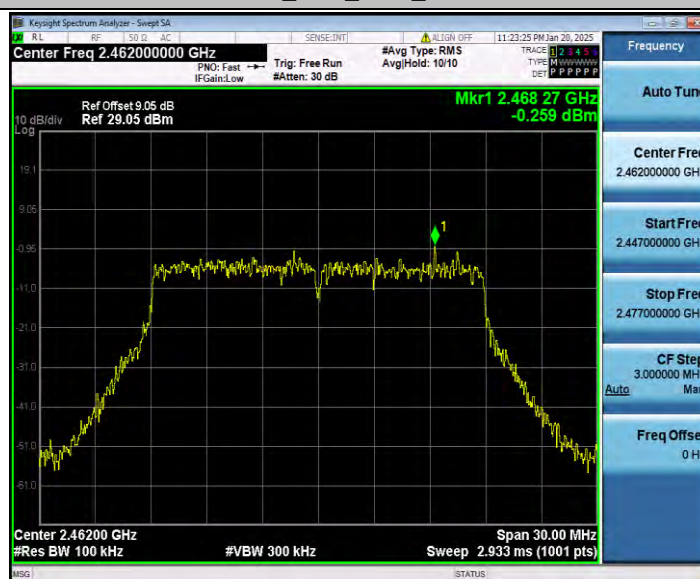
11N20SISO_Ant1_2437_30~1000



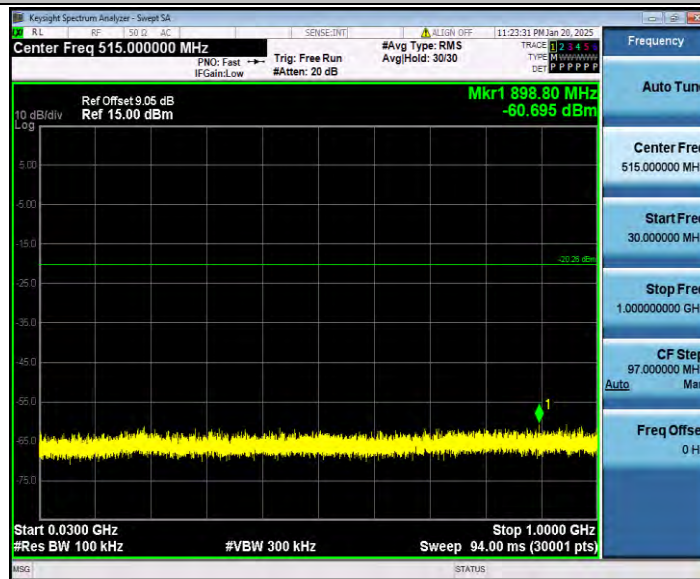
11N20SISO_Ant1_2437_1000~26500



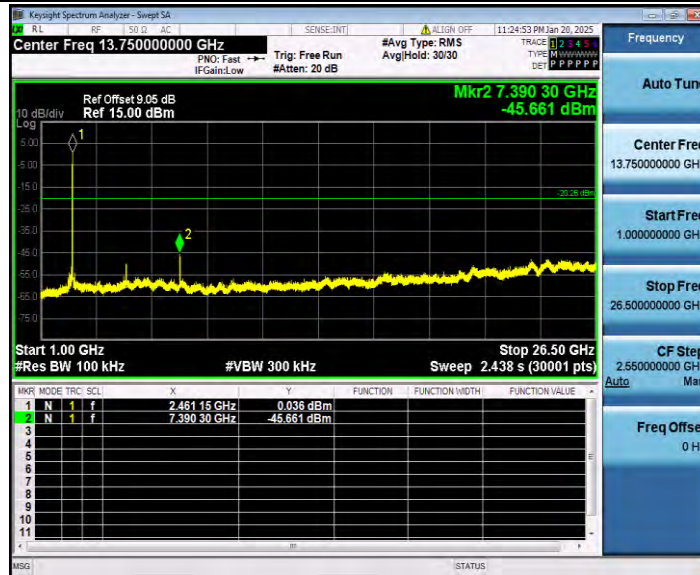
11N20SISO_Ant1_2462_0~Reference



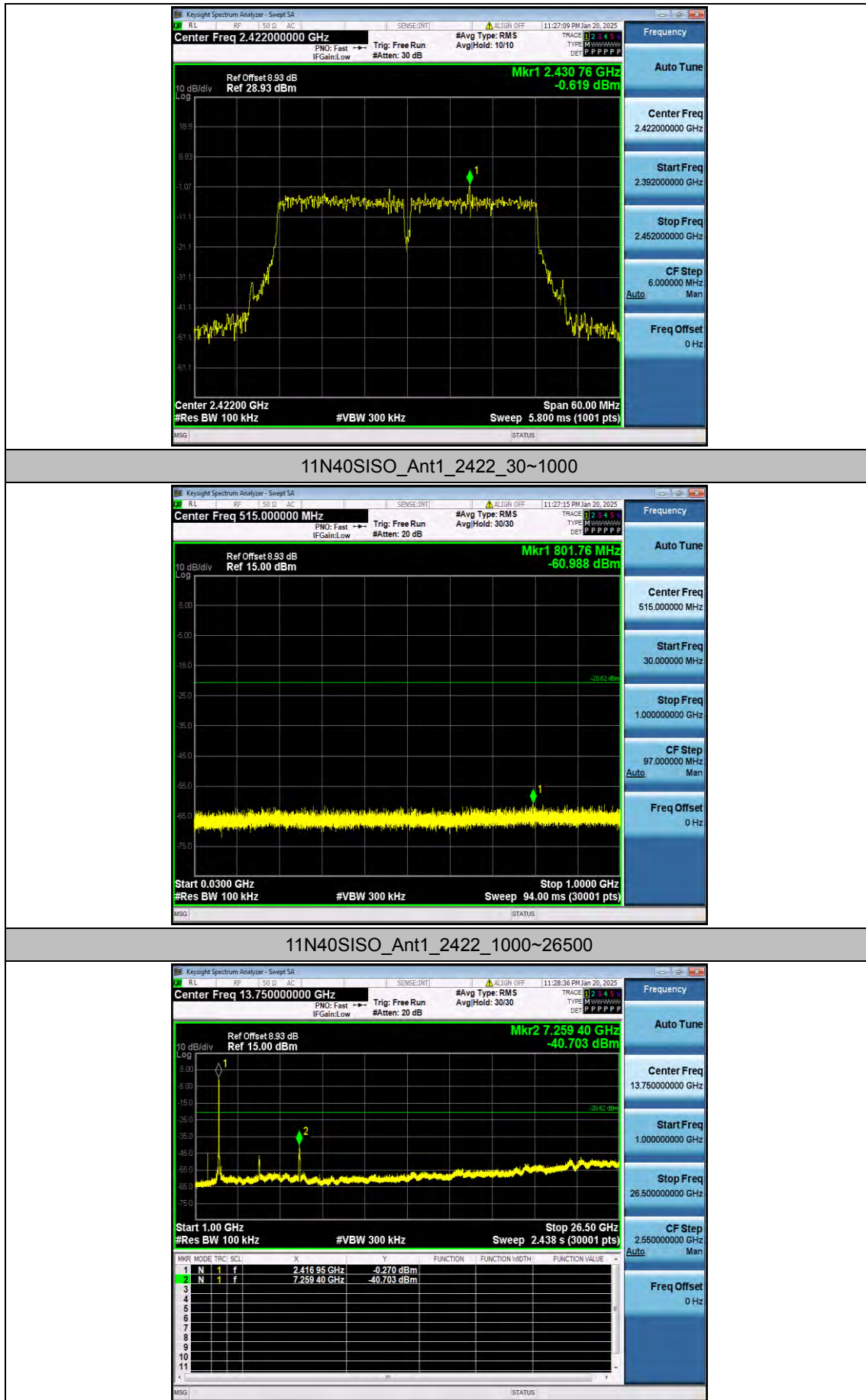
11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



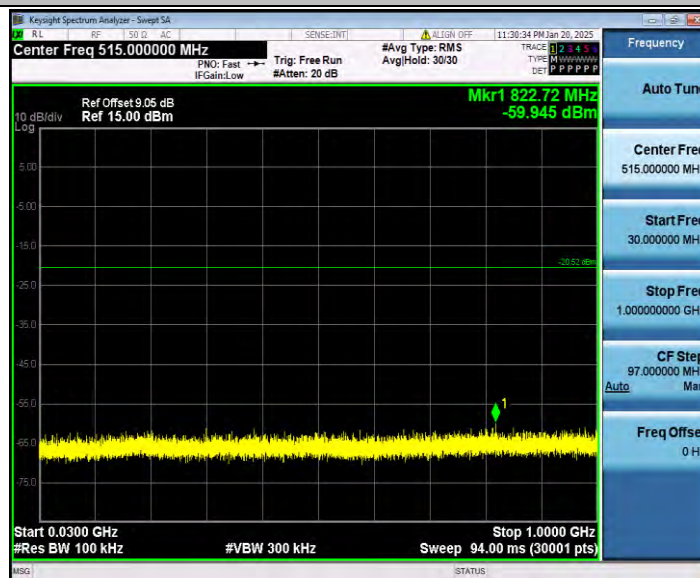
11N40SISO_Ant1_2422_0~Reference



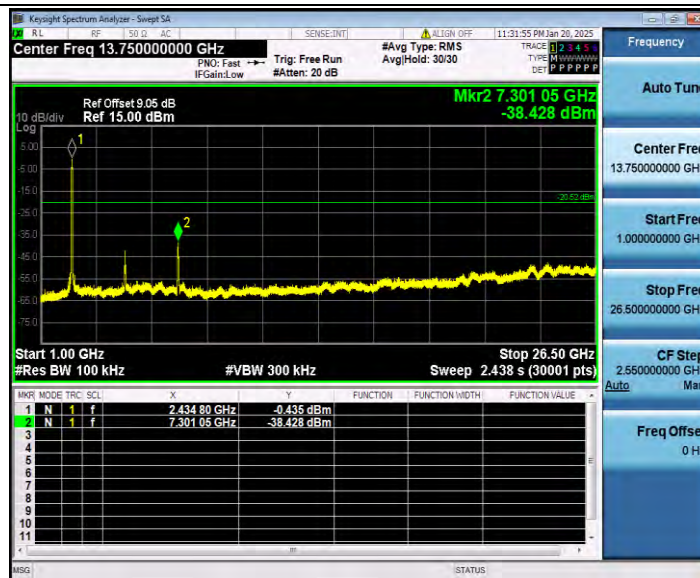
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



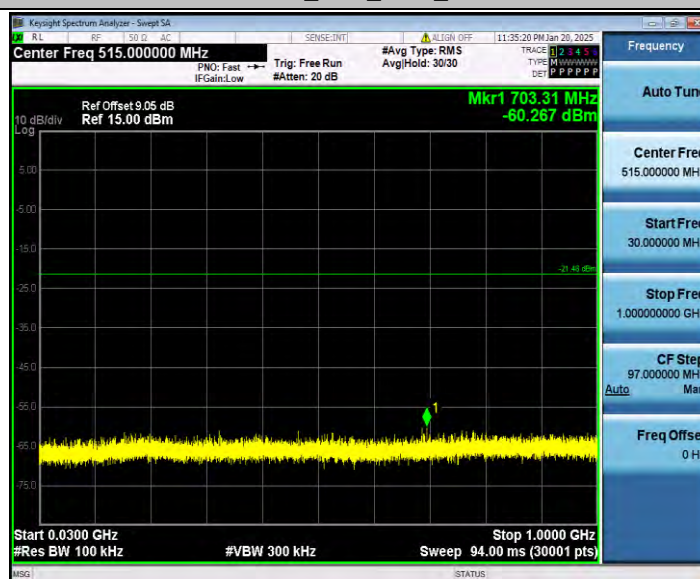
11N40SISO_Ant1_2437_1000~26500

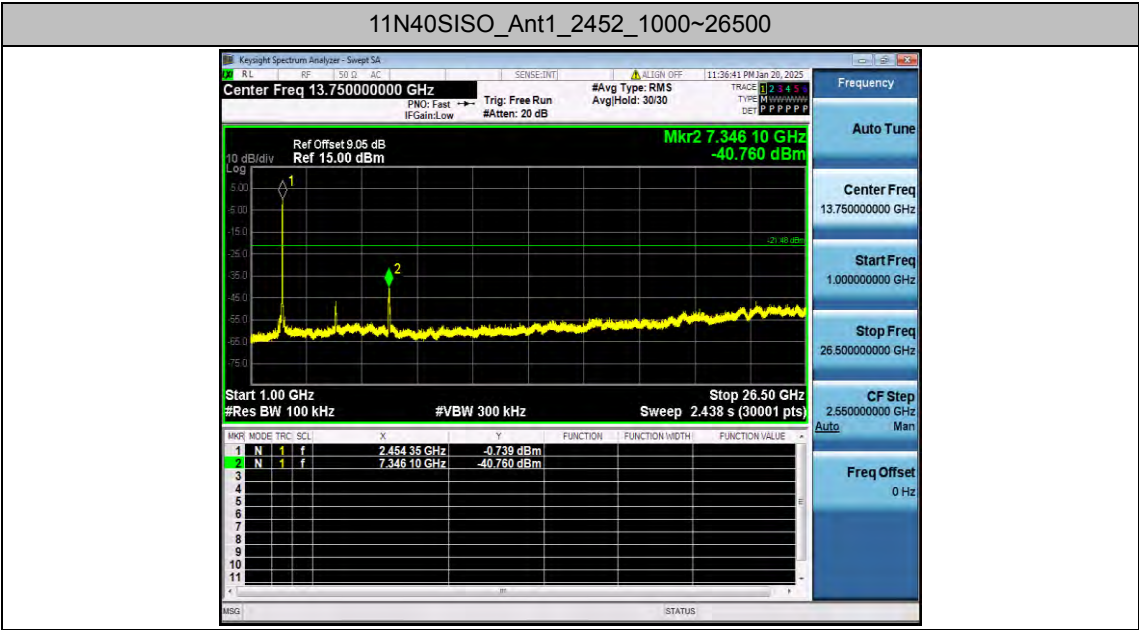


11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





Appendix A.7: Emissions in Restricted Bands

Test Result

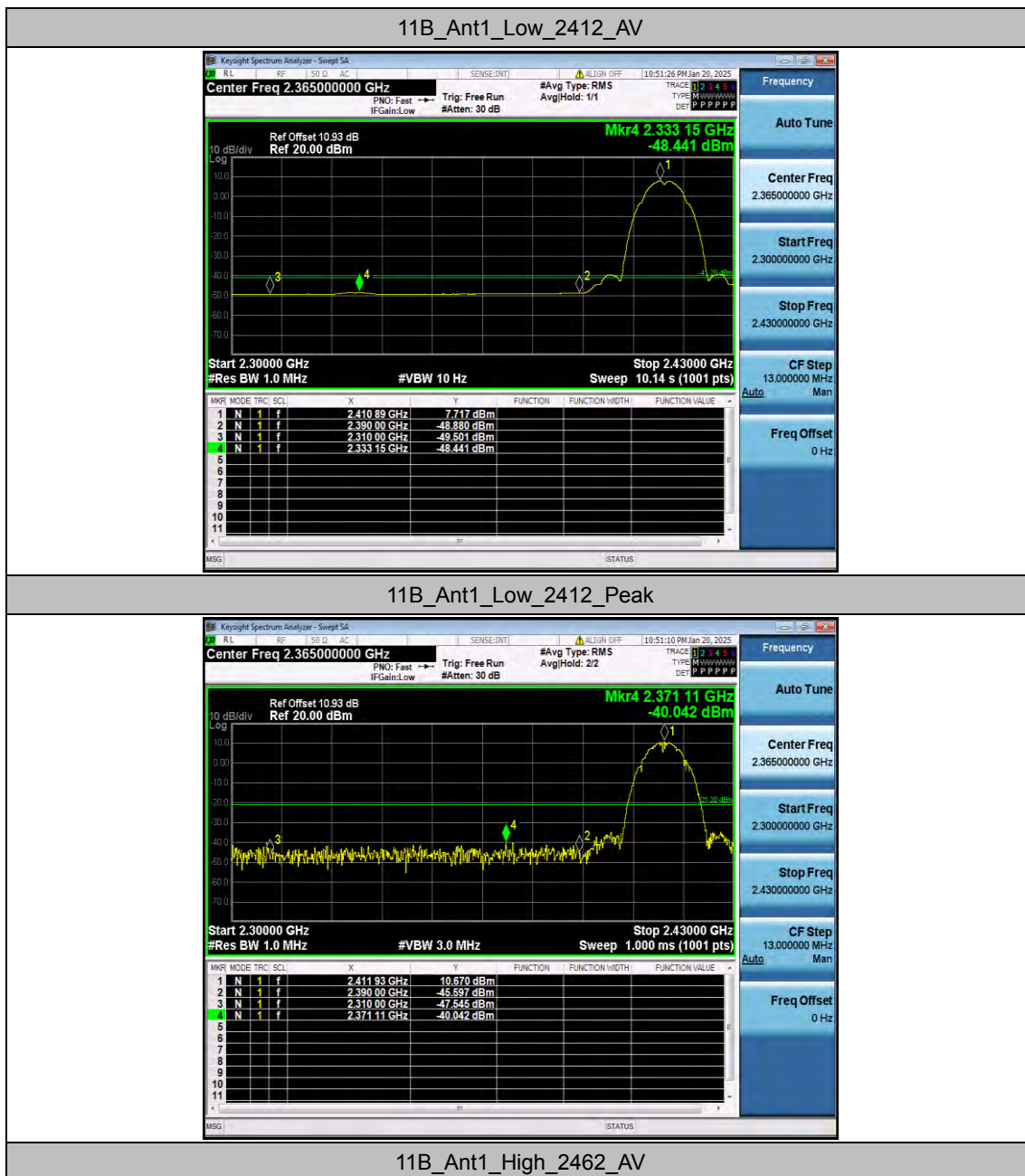
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.5	≤-41.20	45.70	≤54	PASS
				AV	2333.150	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2390.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2310.000	-47.55	≤-21.20	47.65	≤74	PASS
				Peak	2371.110	-40.04	≤-21.20	55.16	≤74	PASS
				Peak	2390.000	-45.6	≤-21.20	49.60	≤74	PASS
		High	2462	AV	2483.500	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2498.850	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2500.000	-48.77	≤-41.20	46.43	≤54	PASS
				Peak	2483.500	-46.29	≤-21.20	48.91	≤74	PASS
				Peak	2494.450	-41.38	≤-21.20	53.82	≤74	PASS
				Peak	2500.000	-46.13	≤-21.20	49.07	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2389.960	-47.43	≤-41.20	47.77	≤54	PASS
				AV	2390.000	-47.43	≤-41.20	47.77	≤54	PASS
				Peak	2310.000	-47.71	≤-21.20	47.49	≤74	PASS
				Peak	2327.820	-40.06	≤-21.20	55.14	≤74	PASS
				Peak	2390.000	-49.85	≤-21.20	45.35	≤74	PASS
		High	2462	AV	2483.500	-48	≤-41.20	47.20	≤54	PASS
				AV	2483.560	-48.02	≤-41.20	47.18	≤54	PASS
				AV	2500.000	-48.46	≤-41.20	46.74	≤54	PASS
				Peak	2483.500	-52.12	≤-21.20	43.08	≤74	PASS
				Peak	2493.900	-39.97	≤-21.20	55.23	≤74	PASS
				Peak	2500.000	-48.26	≤-21.20	46.94	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.39	≤-41.20	45.81	≤54	PASS
				AV	2389.960	-47.66	≤-41.20	47.54	≤54	PASS
				AV	2390.000	-47.66	≤-41.20	47.54	≤54	PASS
				Peak	2310.000	-43.25	≤-21.20	51.95	≤74	PASS
				Peak	2333.800	-38.24	≤-21.20	56.96	≤74	PASS
				Peak	2390.000	-43.3	≤-21.20	51.90	≤74	PASS
		High	2462	AV	2483.500	-48.18	≤-41.20	47.02	≤54	PASS
				AV	2483.780	-48.17	≤-41.20	47.03	≤54	PASS
				AV	2500.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2483.500	-46.28	≤-21.20	48.92	≤74	PASS
				Peak	2486.530	-39.91	≤-21.20	55.29	≤74	PASS

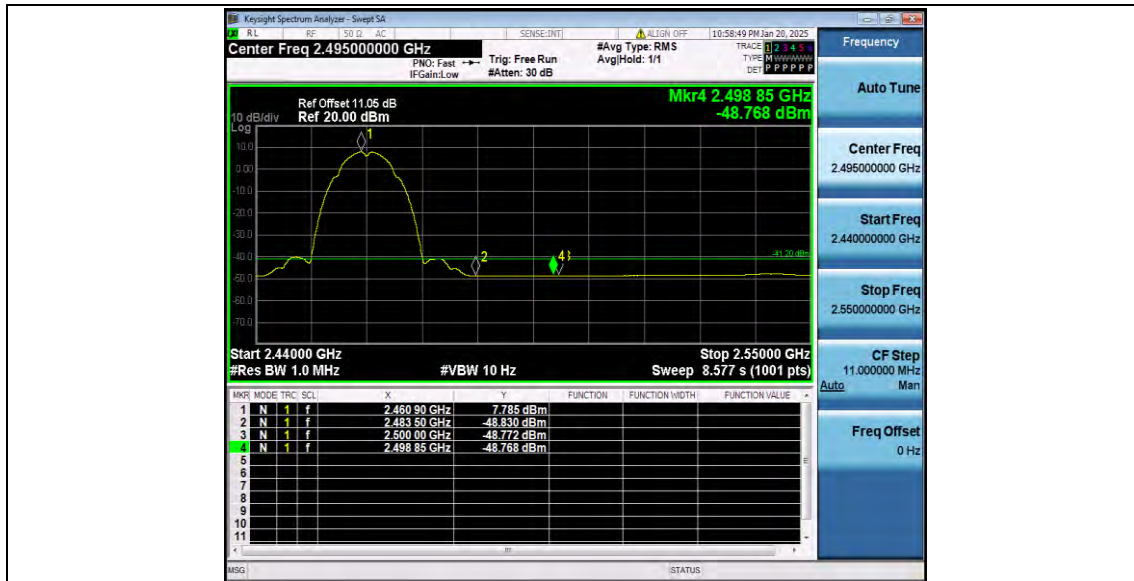
				Peak	2500.000	-45.01	≤ -21.20	50.19	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.32	≤ -41.20	45.88	≤ 54	PASS
				AV	2389.960	-44.1	≤ -41.20	51.10	≤ 54	PASS
				AV	2390.000	-44.1	≤ -41.20	51.10	≤ 54	PASS
				Peak	2310.000	-46.91	≤ -21.20	48.29	≤ 74	PASS
				Peak	2381.380	-33.66	≤ -21.20	61.54	≤ 74	PASS
				Peak	2390.000	-43.95	≤ -21.20	51.25	≤ 74	PASS
		High	2452	AV	2483.500	-45.1	≤ -41.20	50.10	≤ 54	PASS
				AV	2483.560	-45.15	≤ -41.20	50.05	≤ 54	PASS
				AV	2500.000	-47.9	≤ -41.20	47.30	≤ 54	PASS
				Peak	2483.500	-47.4	≤ -21.20	47.80	≤ 74	PASS
				Peak	2494.340	-41.05	≤ -21.20	54.15	≤ 74	PASS
				Peak	2500.000	-44.86	≤ -21.20	50.34	≤ 74	PASS

Note:

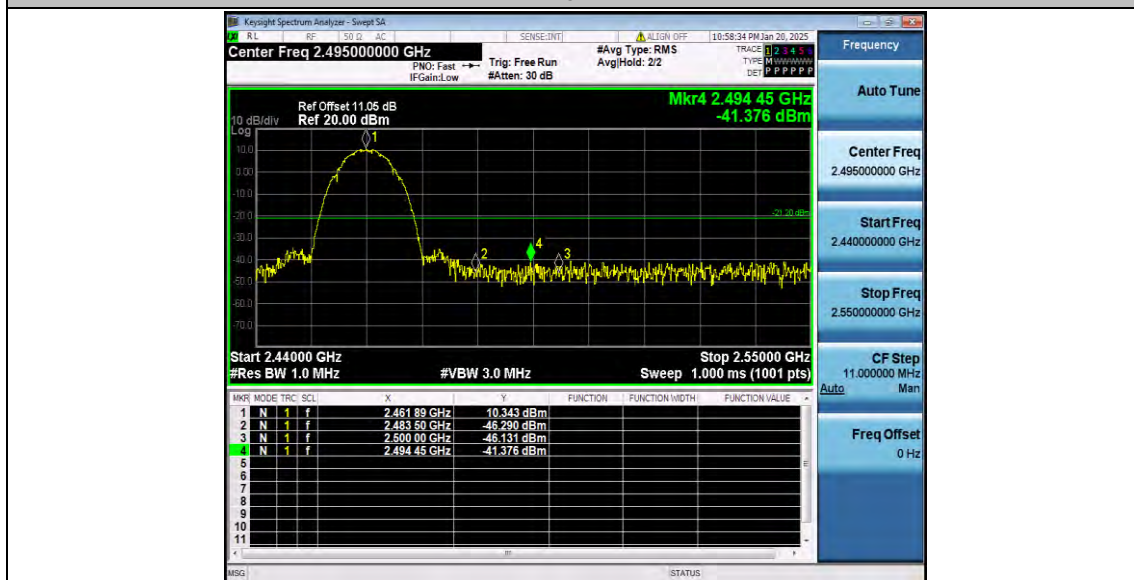
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

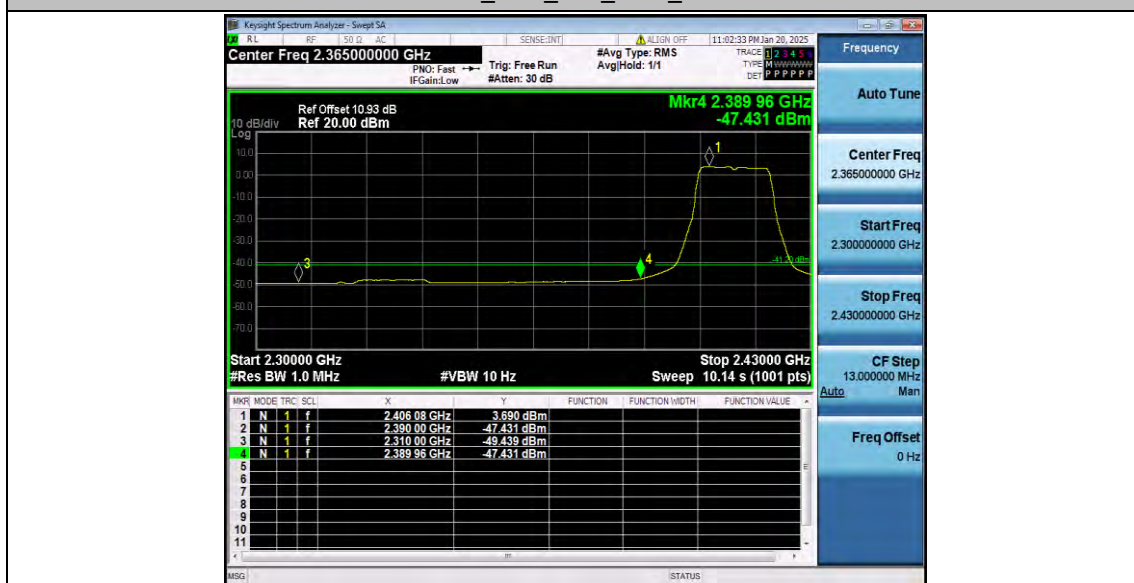




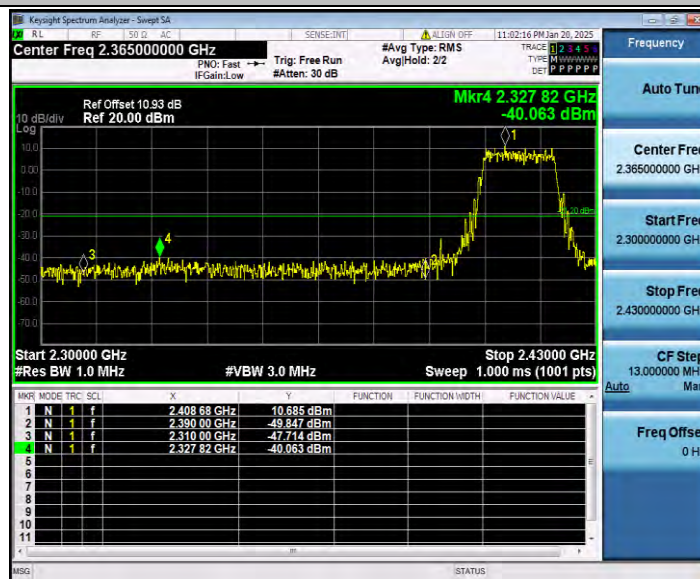
11B_Ant1_High_2462_Peak



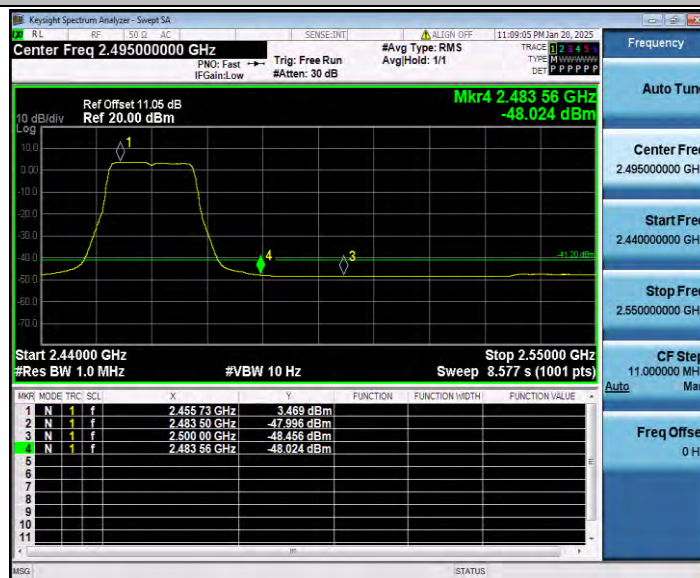
11G_Ant1_Low_2412_AV



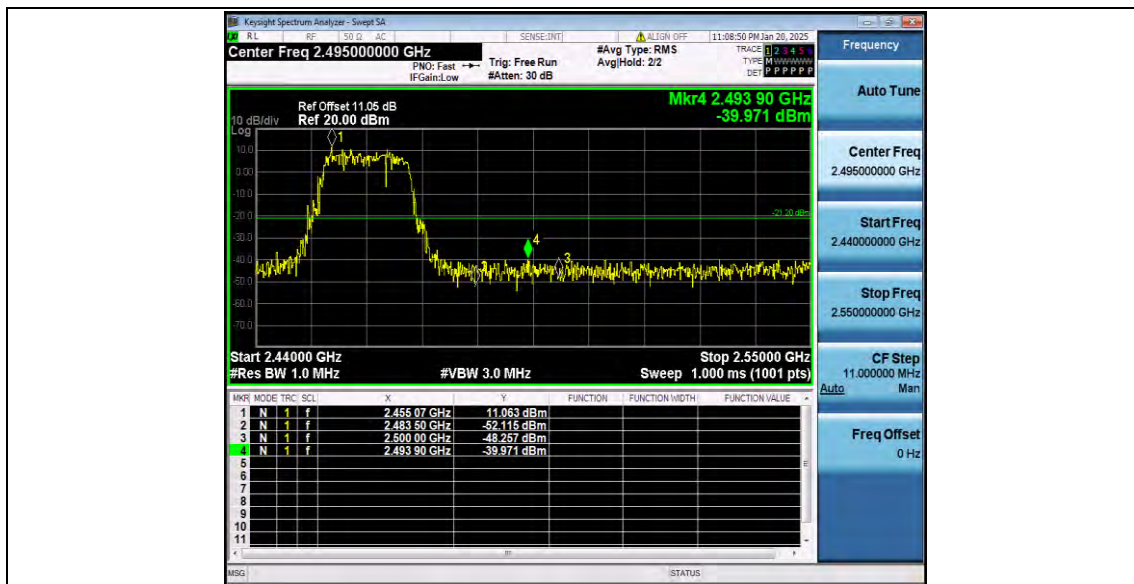
11G_Ant1_Low_2412_Peak



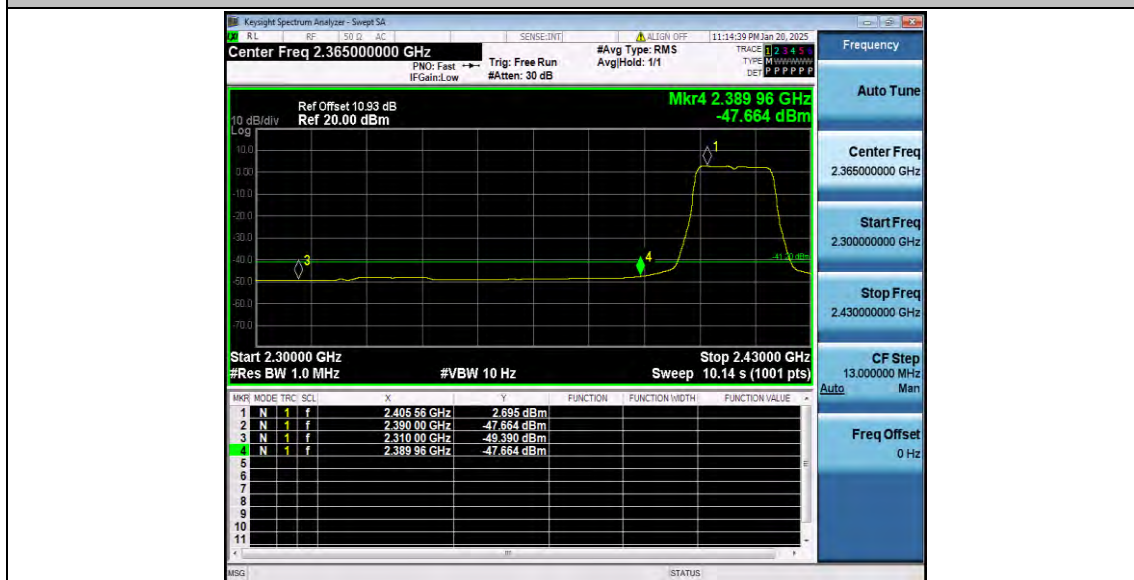
11G_Ant1_High_2462_AV



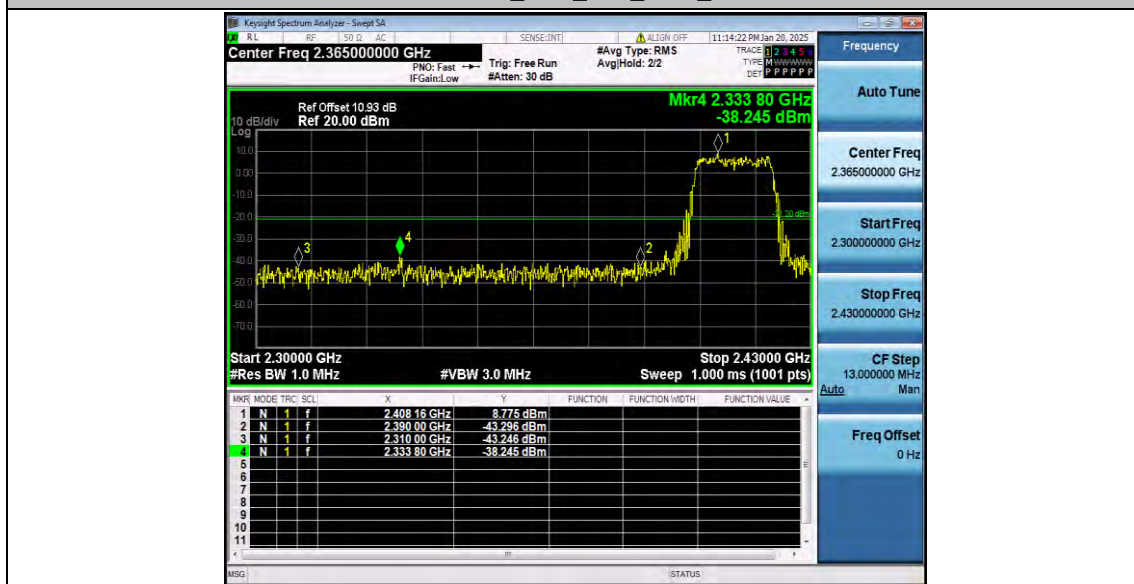
11G_Ant1_High_2462_Peak



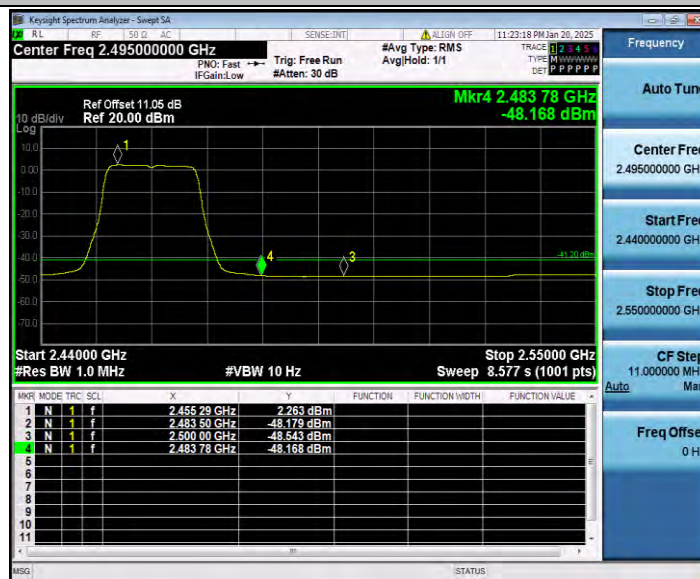
11N20SISO_Ant1_Low_2412_AV



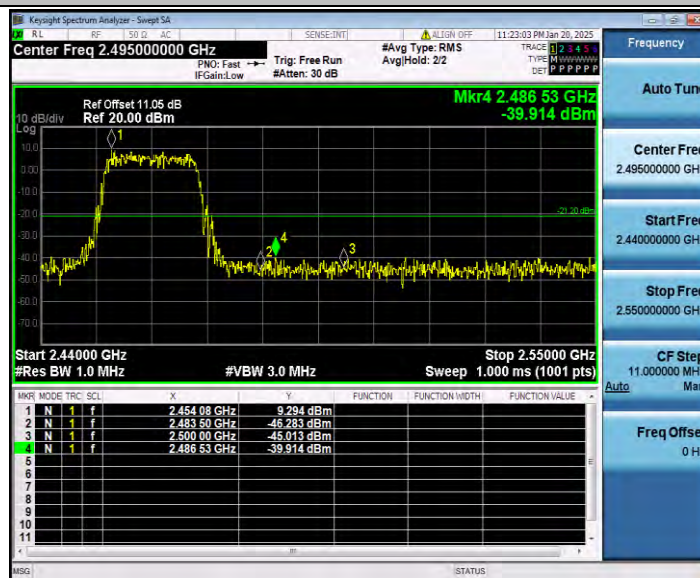
11N20SISO_Ant1_Low_2412_Peak



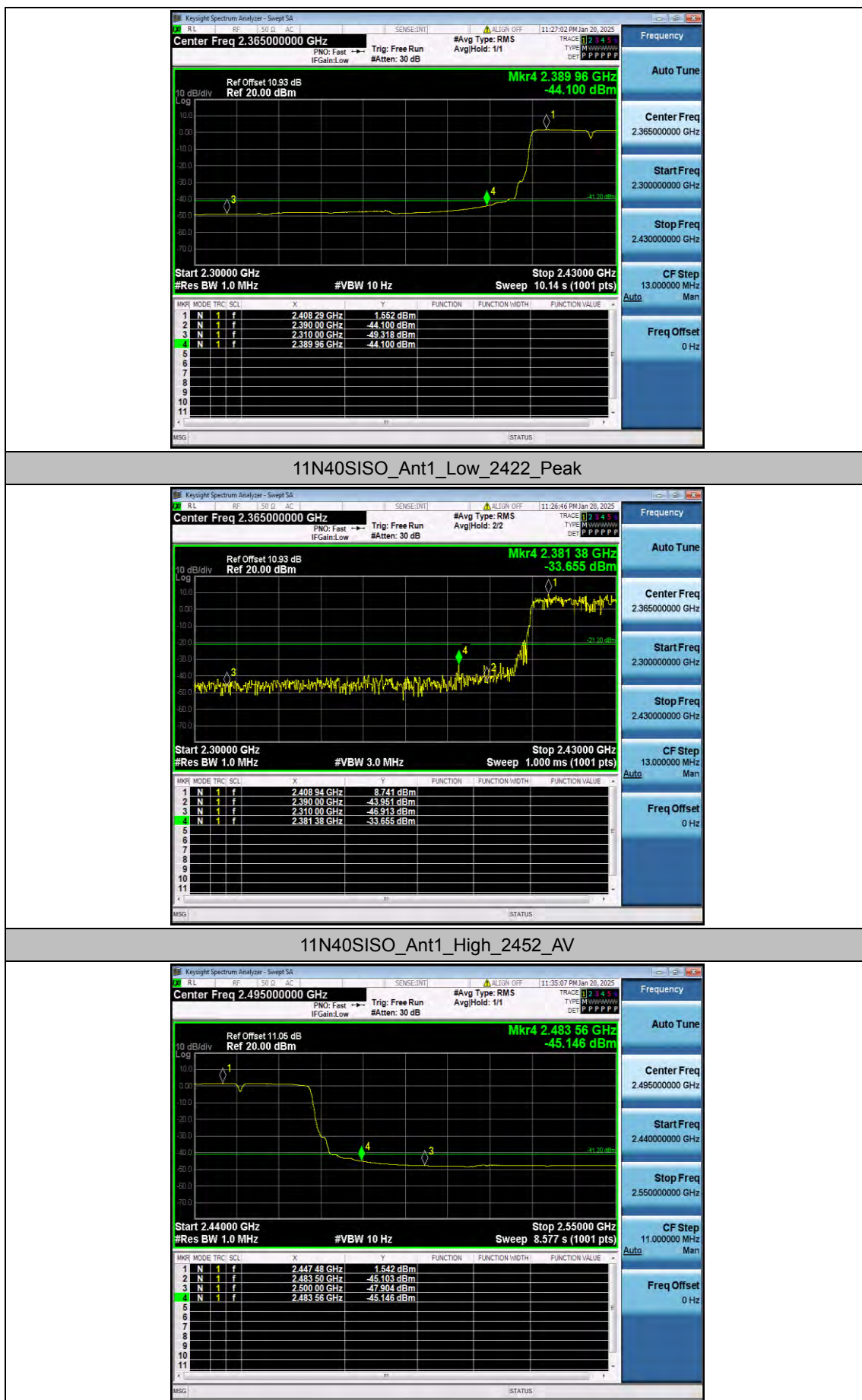
11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_High_2452_Peak

