

Case No. : <u>GTS20250321007-1</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH,	
Test Date: <u>2025.3.26</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	8.560	2407.480	2416.040	0.5	PASS
		2437	8.520	2433.000	2441.520	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant1	2412	15.920	2404.240	2420.160	0.5	PASS
		2437	14.720	2429.760	2444.480	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	13.880	2404.440	2418.320	0.5	PASS
		2437	14.880	2429.880	2444.760	0.5	PASS
		2462	15.880	2454.480	2470.360	0.5	PASS
11N40SISO	Ant1	2422	34.240	2405.680	2439.920	0.5	PASS
		2437	26.320	2425.720	2452.040	0.5	PASS
		2452	35.120	2434.480	2469.600	0.5	PASS

Test Graphs



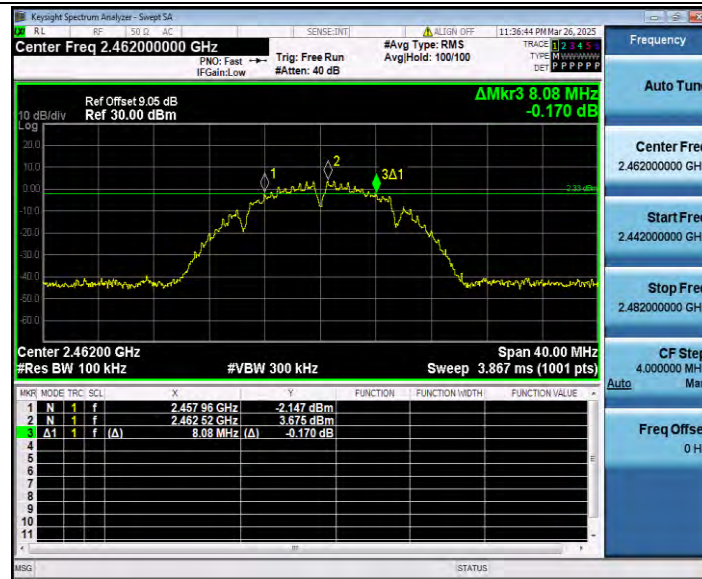
11B_Ant1_2437

Frequency

Auto Tune

Center Freq
2.437000000 GHzStart Freq
2.417000000 GHzStop Freq
2.457000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

11B_Ant1_2462



11G_Ant1_2412



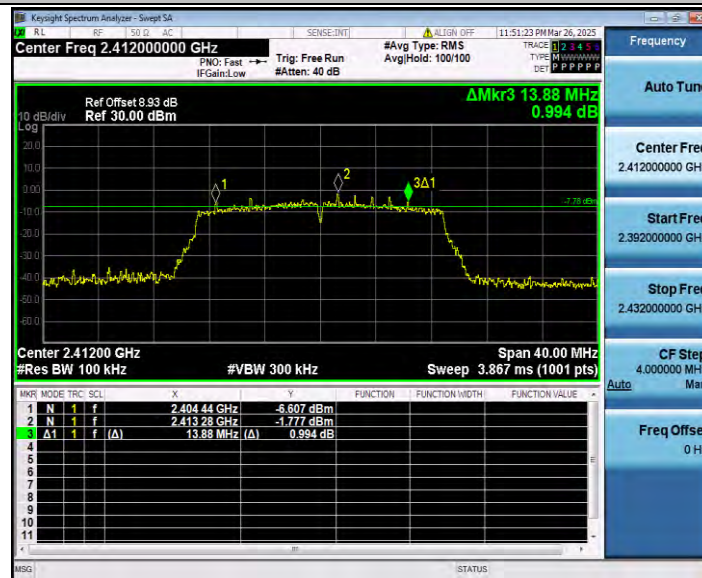
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



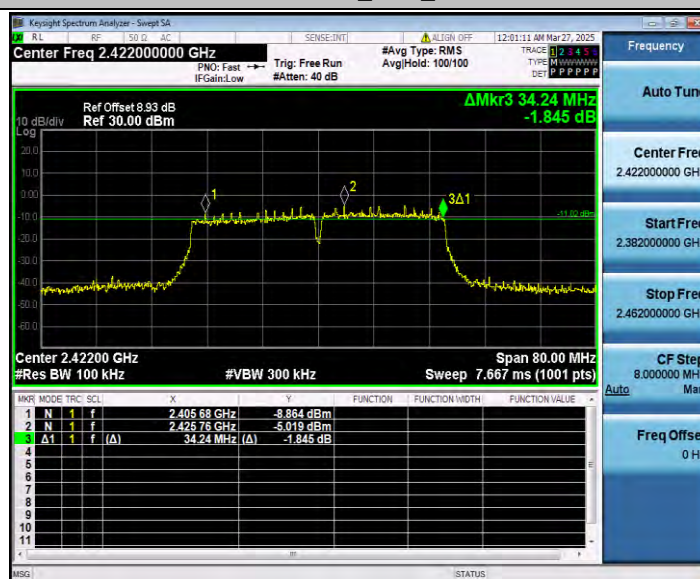
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



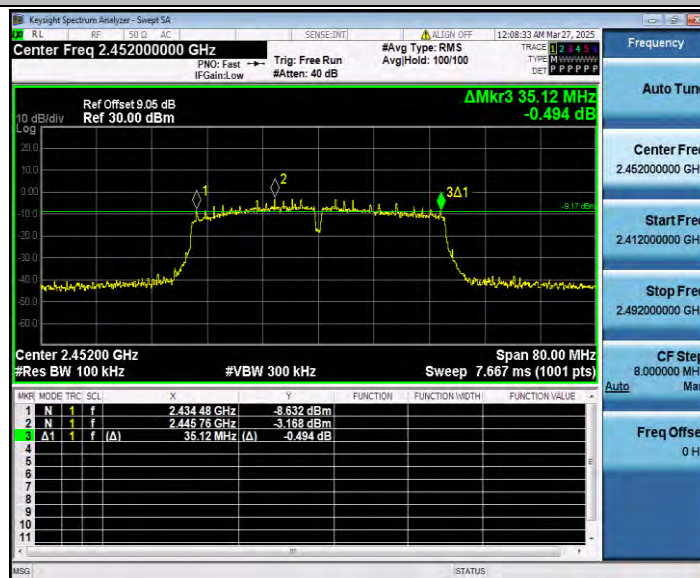
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

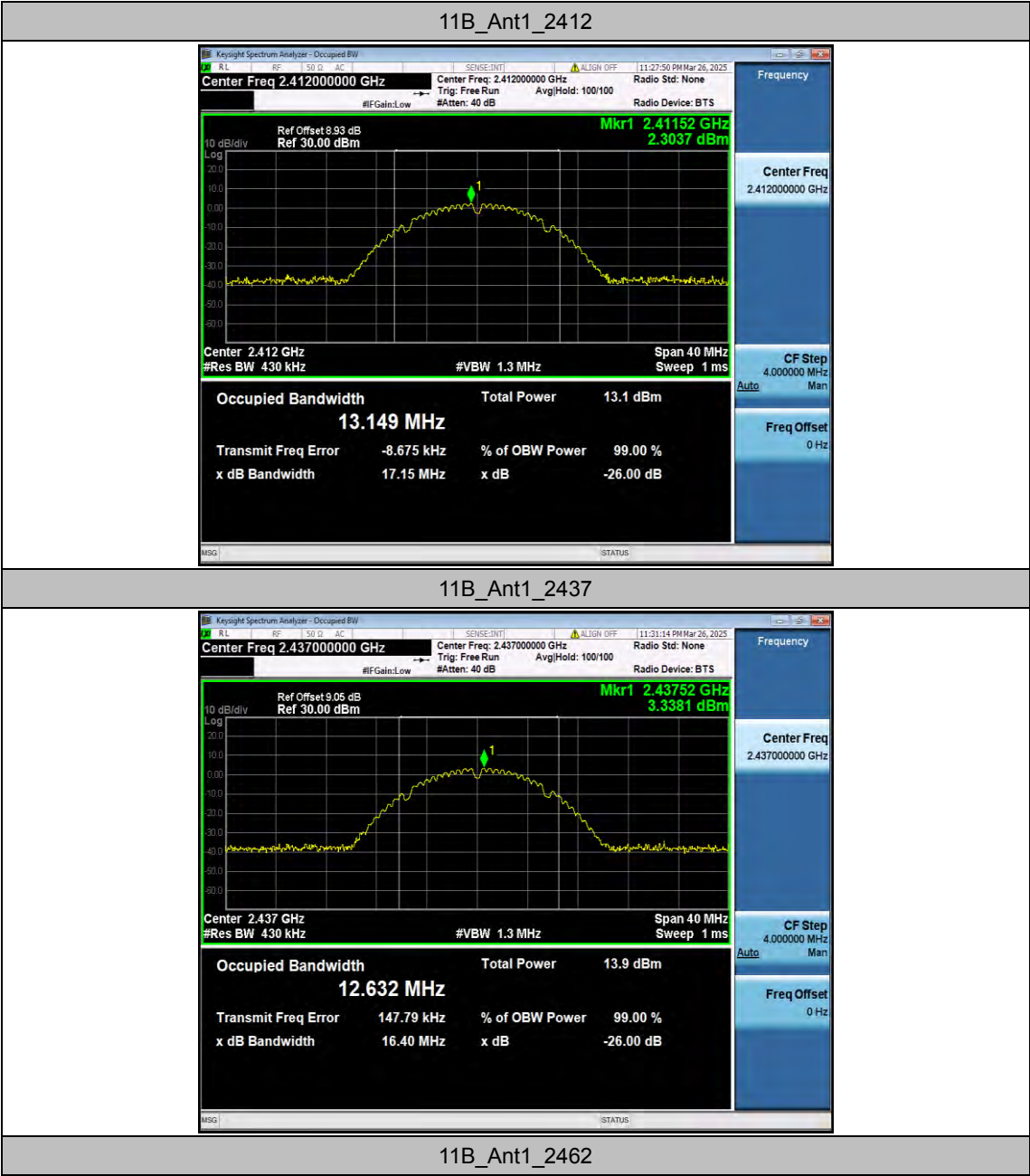


Appendix A.2: Occupied Channel Bandwidth

Test Result

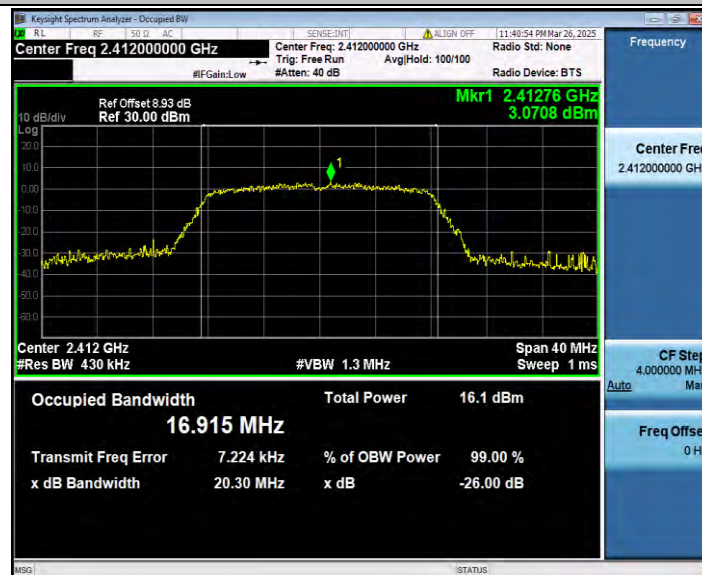
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.149	2405.4168	2418.5658	---	---
		2437	12.632	2430.8318	2443.4638	---	---
		2462	12.939	2455.6488	2468.5878	---	---
11G	Ant1	2412	16.915	2403.5497	2420.4647	---	---
		2437	16.728	2428.6648	2445.3928	---	---
		2462	16.702	2453.7854	2470.4874	---	---
11N20SISO	Ant1	2412	17.806	2403.1481	2420.9541	---	---
		2437	17.789	2428.1440	2445.9330	---	---
		2462	17.769	2453.2346	2471.0036	---	---
11N40SISO	Ant1	2422	36.463	2403.8352	2440.2982	---	---
		2437	35.605	2419.3044	2454.9094	---	---
		2452	35.964	2434.1887	2470.1527	---	---

Test Graphs

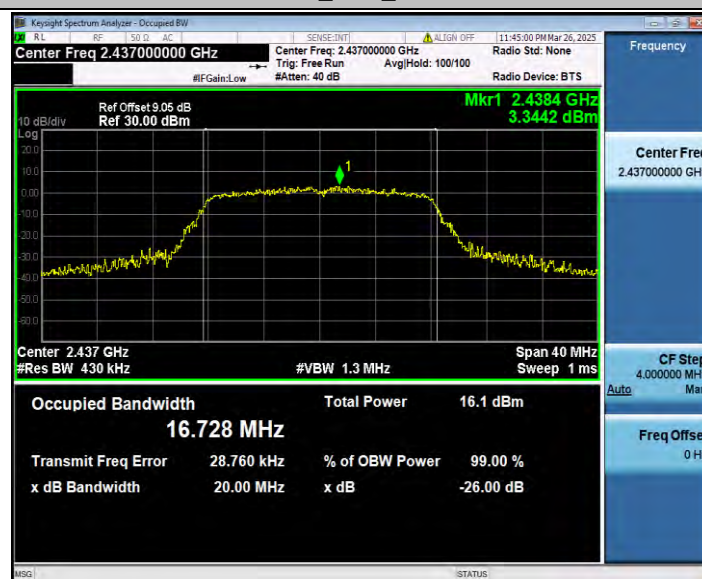




11G_Ant1_2412



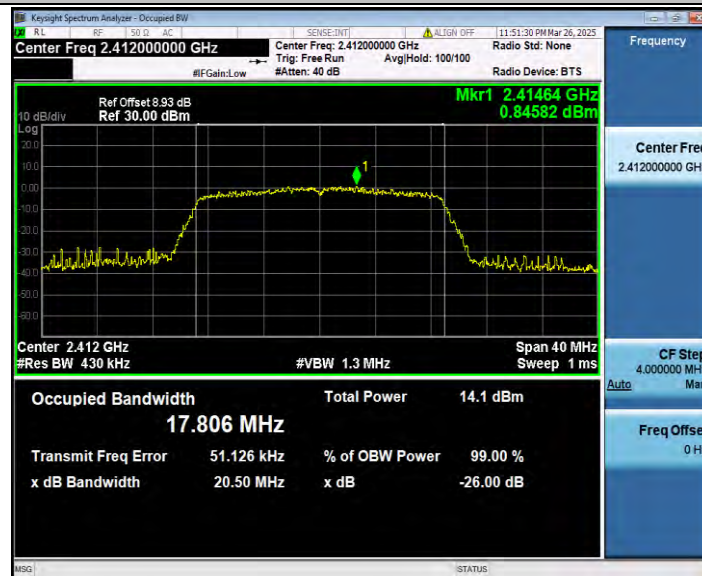
11G_Ant1_2437



11G_Ant1_2462



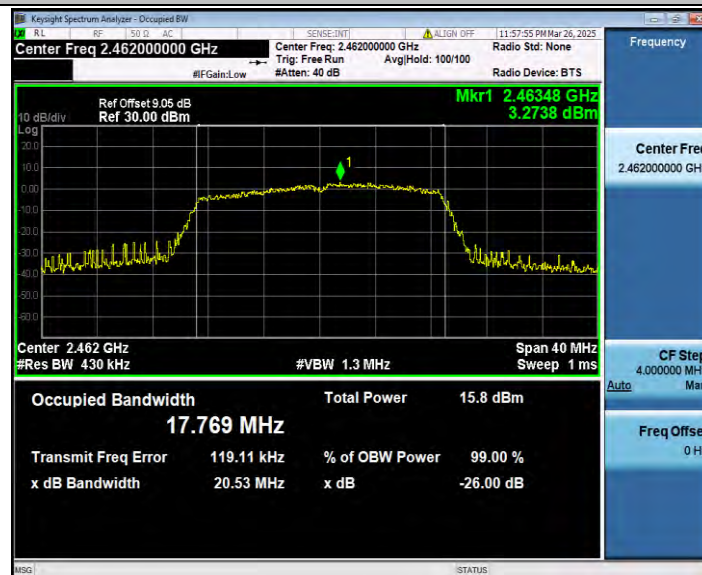
11N20SISO_Ant1_2412



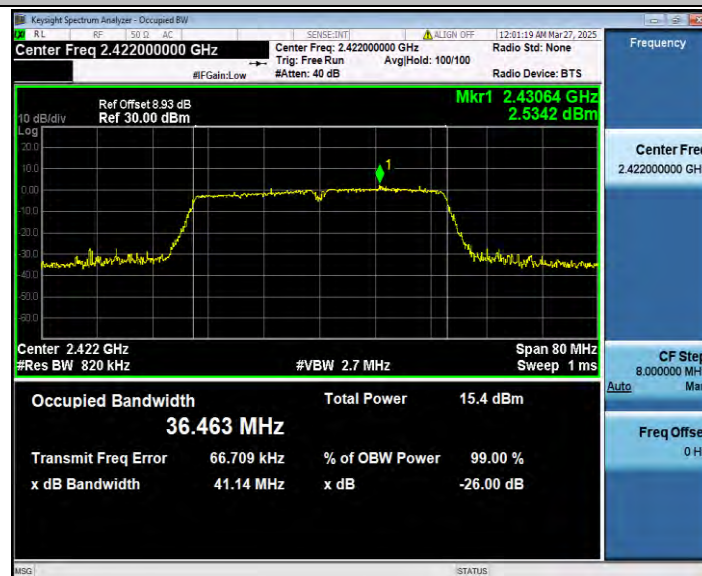
11N20SISO_Ant1_2437



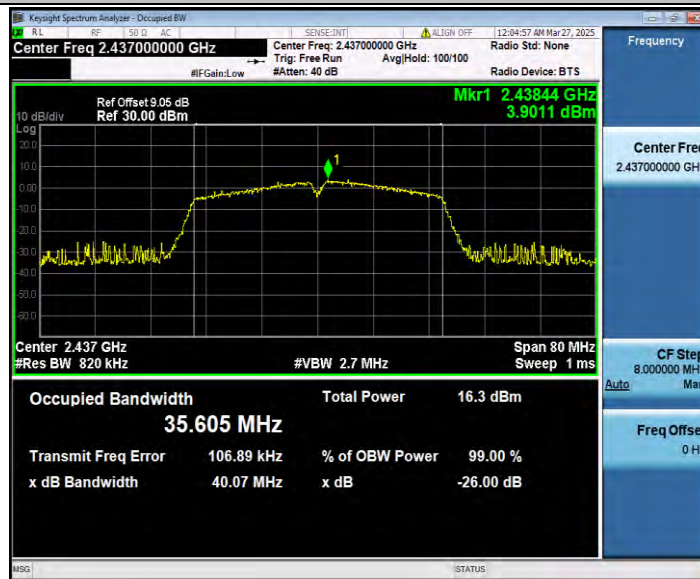
11N20SISO_Ant1_2462



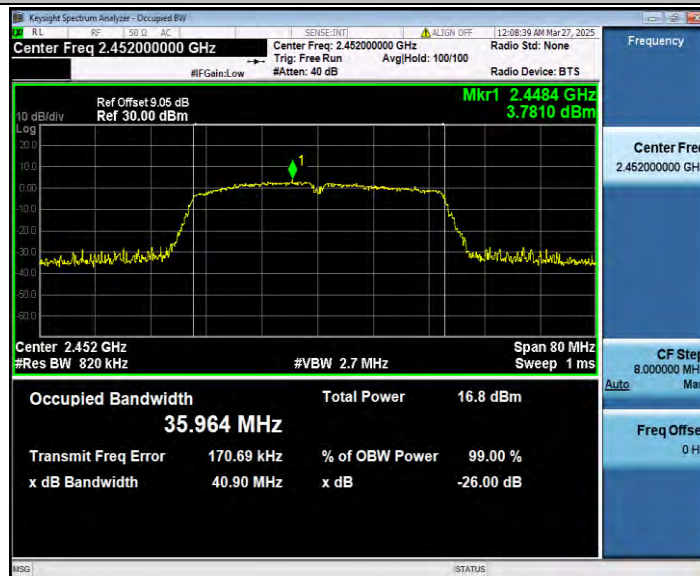
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.13	≤30.00	PASS
		2437	13.92	≤30.00	PASS
		2462	14.90	≤30.00	PASS
11G	Ant1	2412	17.25	≤30.00	PASS
		2437	17.21	≤30.00	PASS
		2462	18.04	≤30.00	PASS
11N20SISO	Ant1	2412	15.07	≤30.00	PASS
		2437	16.22	≤30.00	PASS
		2462	16.76	≤30.00	PASS
11N40SISO	Ant1	2422	15.67	≤30.00	PASS
		2437	16.71	≤30.00	PASS
		2452	16.82	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

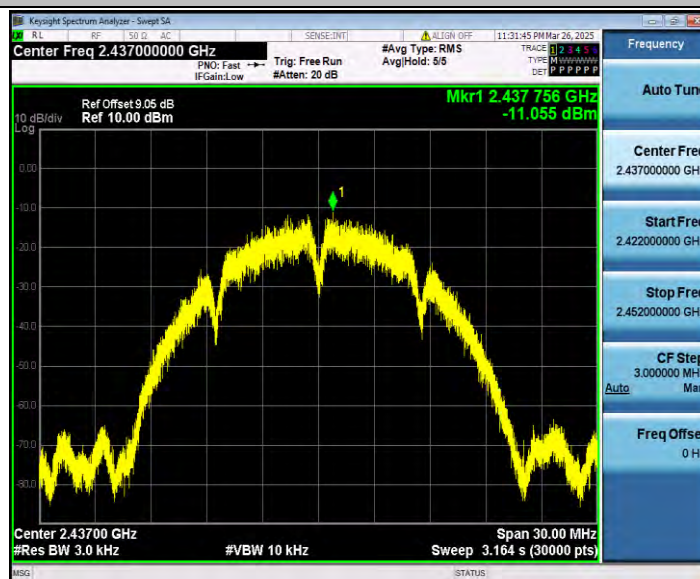
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.37	≤8.00	PASS
		2437	-11.06	≤8.00	PASS
		2462	-9.84	≤8.00	PASS
11G	Ant1	2412	-14.35	≤8.00	PASS
		2437	-14.27	≤8.00	PASS
		2462	-13.58	≤8.00	PASS
11N20SISO	Ant1	2412	-16.95	≤8.00	PASS
		2437	-15.81	≤8.00	PASS
		2462	-14.44	≤8.00	PASS
11N40SISO	Ant1	2422	-17.74	≤8.00	PASS
		2437	-17.63	≤8.00	PASS
		2452	-16.86	≤8.00	PASS

Test Graphs

11B_Ant1_2412



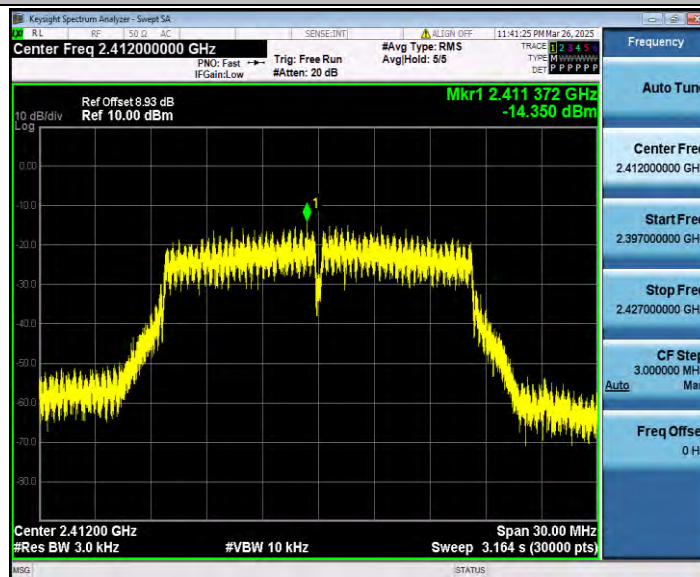
11B_Ant1_2437



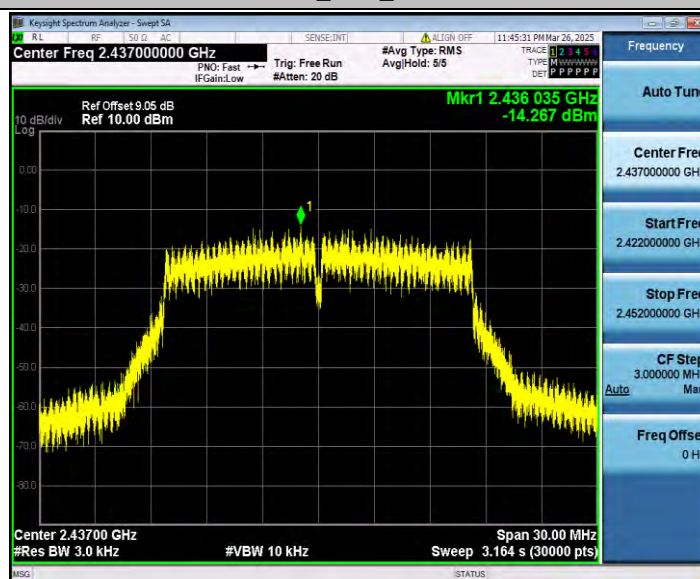
11B_Ant1_2462



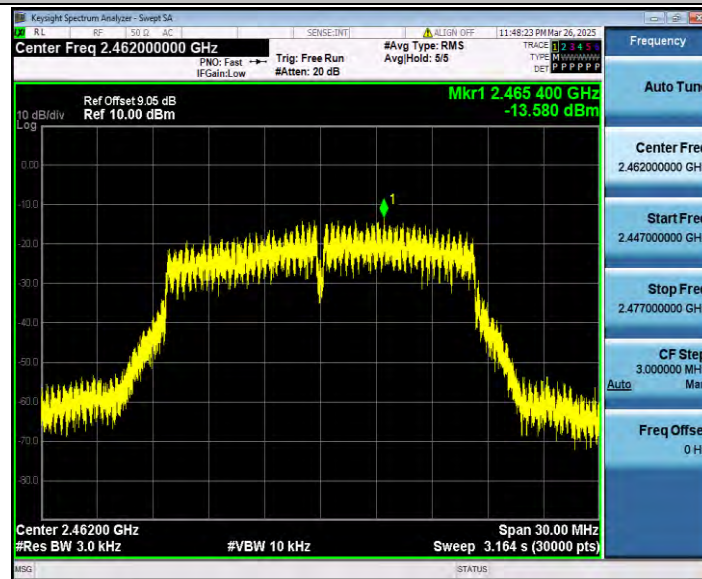
11G_Ant1_2412



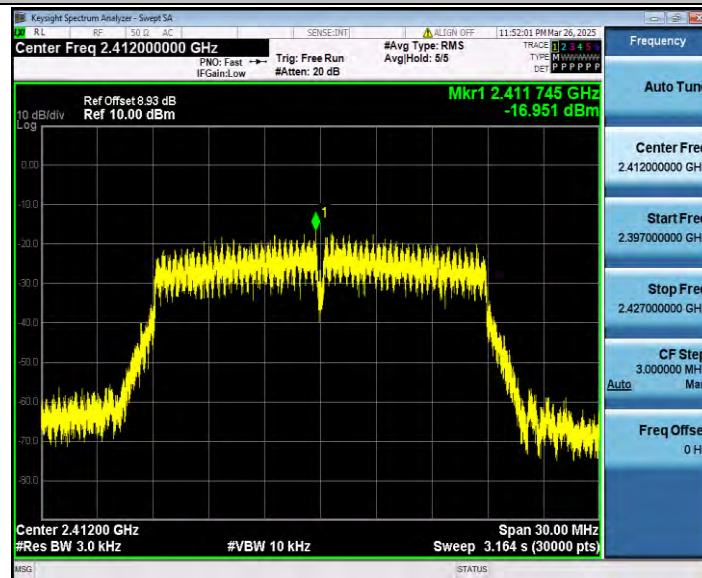
11G_Ant1_2437



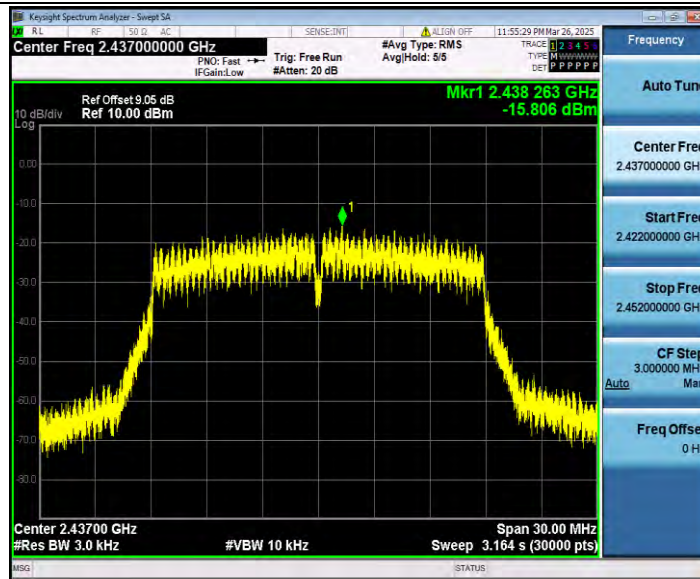
11G_Ant1_2462



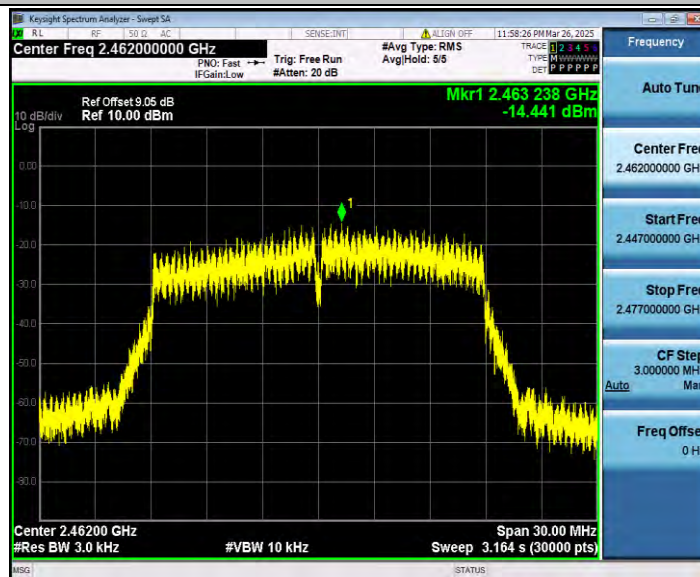
11N20SISO_Ant1_2412



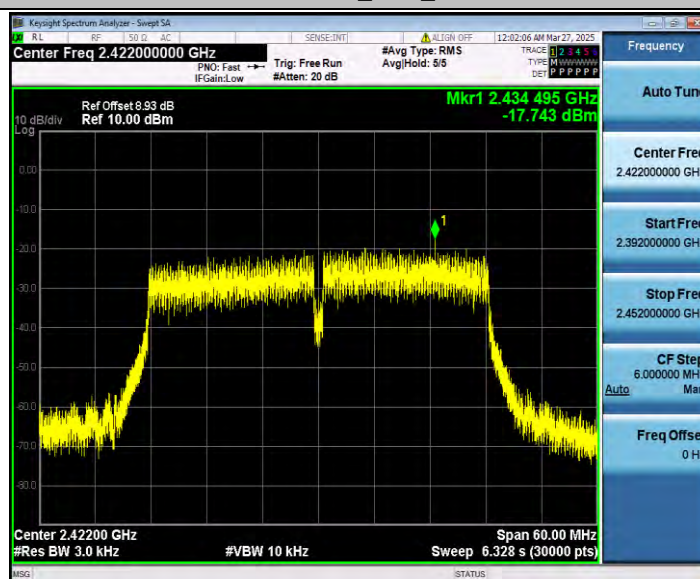
11N20SISO_Ant1_2437



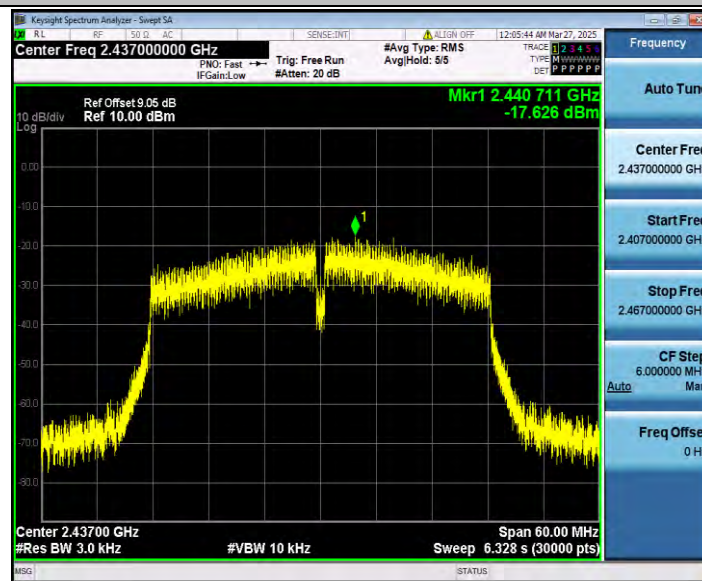
11N20SISO_Ant1_2462



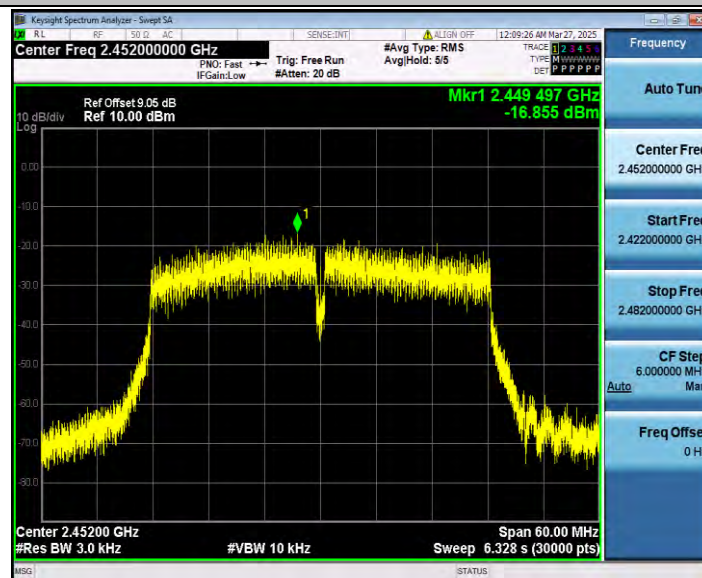
11N40SISO_Ant1_2422



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	1.34	-44.65	≤ -18.66	PASS
		High	2462	4.22	-49.66	≤ -15.78	PASS
11G	Ant1	Low	2412	-0.90	-31.73	≤ -20.9	PASS
		High	2462	1.45	-49.33	≤ -18.55	PASS
11N20SISO	Ant1	Low	2412	-2.31	-37.92	≤ -22.31	PASS
		High	2462	-0.07	-48.03	≤ -20.07	PASS
11N40SISO	Ant1	Low	2422	-5.30	-40.83	≤ -25.3	PASS
		High	2452	-3.17	-42.86	≤ -23.17	PASS

Test Graphs



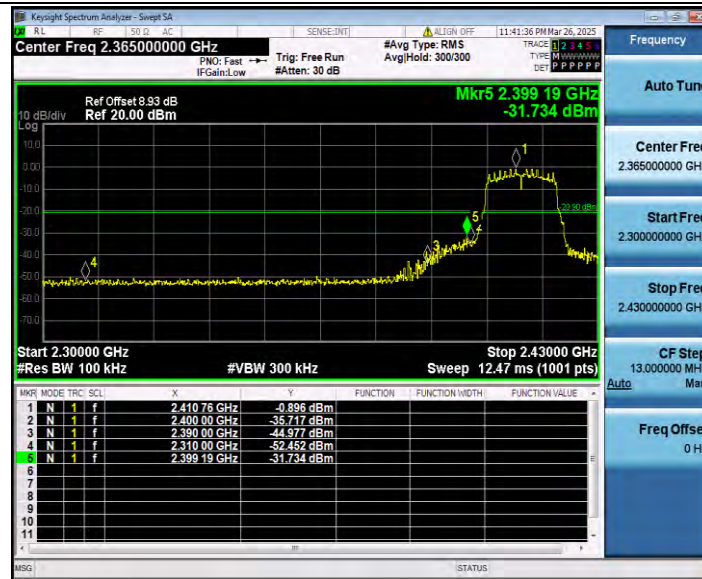
11B_Ant1_High_2462

Frequency

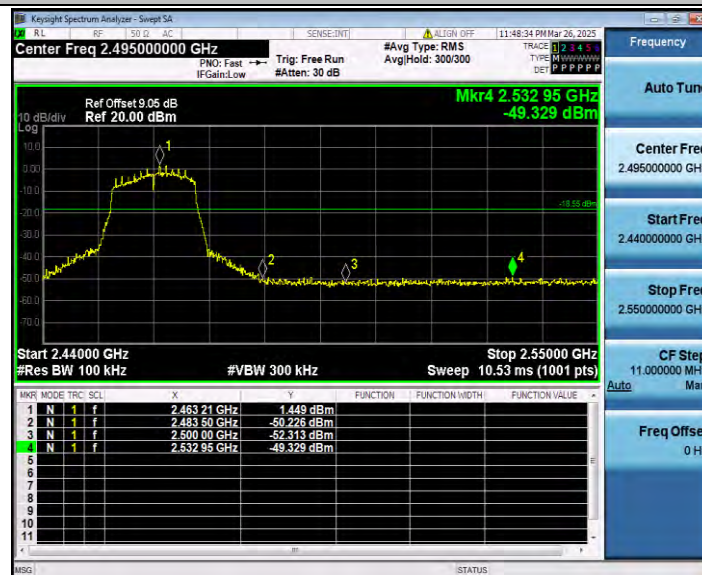
Auto Tune

Center Freq
2.495000000 GHzStart Freq
2.440000000 GHzStop Freq
2.550000000 GHzCF Step
11.000000 MHz
ManFreq Offset
0 Hz

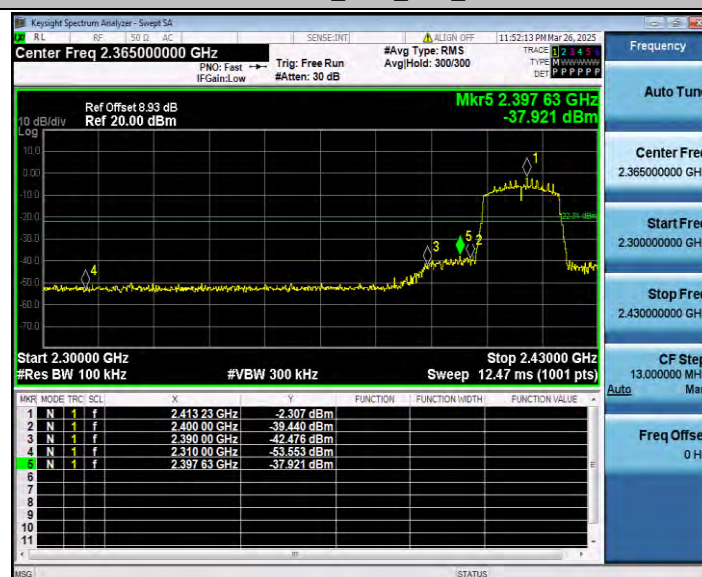
11G_Ant1_Low_2412



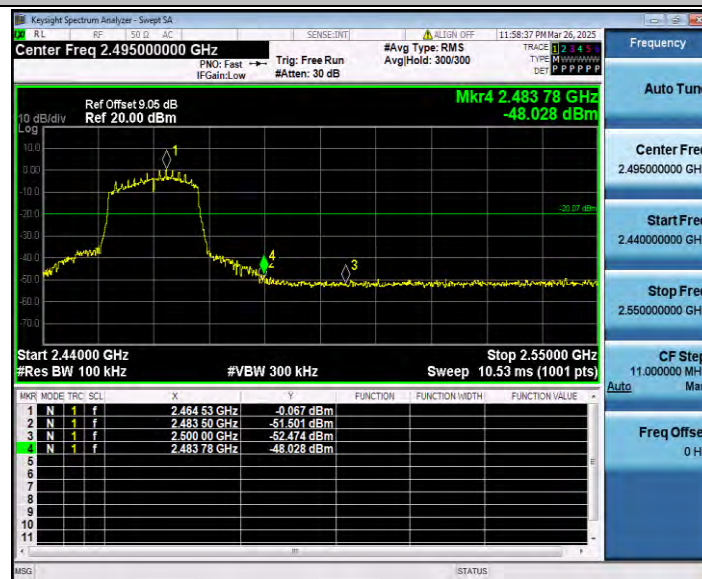
11G_Ant1_High_2462



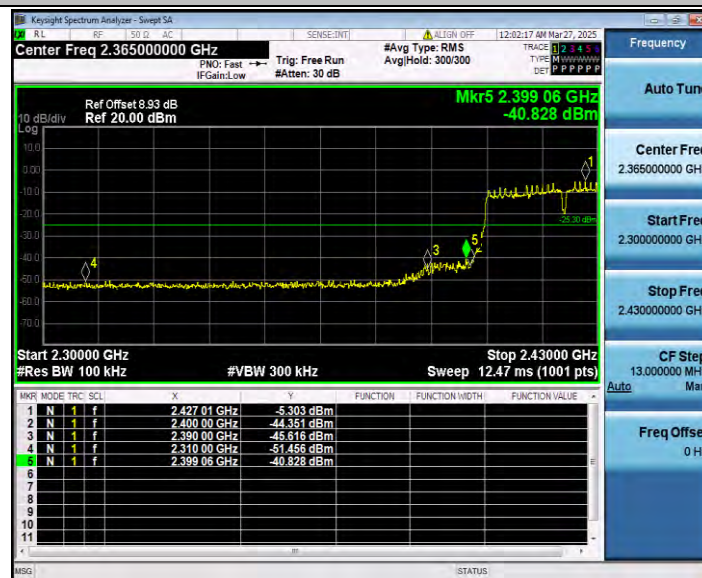
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

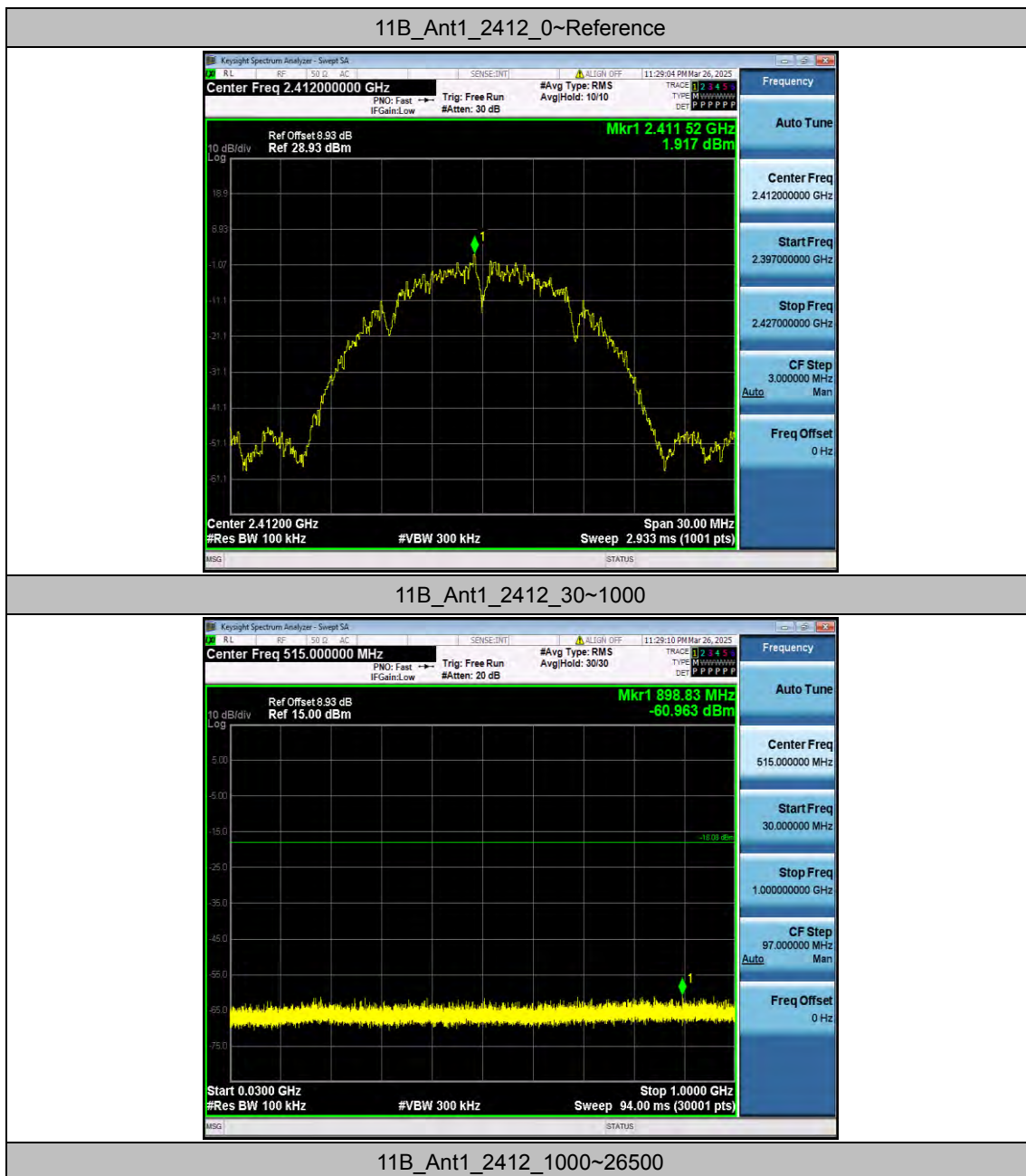


Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-60.96	≤ -18.08	PASS
			1000~26500	1.92	-47.38	≤ -18.08	PASS
		2437	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-61.11	≤ -18.19	PASS
			1000~26500	1.81	-47.85	≤ -18.19	PASS
		2462	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-59.79	≤ -17.66	PASS
			1000~26500	2.34	-47.44	≤ -17.66	PASS
11G	Ant1	2412	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-59.93	≤ -21.91	PASS
			1000~26500	-1.91	-47.7	≤ -21.91	PASS
		2437	Reference	-2.87	-2.87	---	PASS
			30~1000	-2.87	-60.93	≤ -22.87	PASS
			1000~26500	-2.87	-47.21	≤ -22.87	PASS
		2462	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-60.58	≤ -20.24	PASS
			1000~26500	-0.24	-47.78	≤ -20.24	PASS
11N20SISO	Ant1	2412	Reference	-3.70	-3.70	---	PASS
			30~1000	-3.70	-60.25	≤ -23.7	PASS
			1000~26500	-3.70	-47.58	≤ -23.7	PASS
		2437	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-59.36	≤ -22.78	PASS
			1000~26500	-2.78	-47.72	≤ -22.78	PASS
		2462	Reference	-2.43	-2.43	---	PASS
			30~1000	-2.43	-60.63	≤ -22.43	PASS
			1000~26500	-2.43	-47.6	≤ -22.43	PASS
11N40SISO	Ant1	2422	Reference	-8.80	-8.80	---	PASS
			30~1000	-8.80	-60.85	≤ -28.8	PASS
			1000~26500	-8.80	-47.6	≤ -28.8	PASS
		2437	Reference	-5.41	-5.41	---	PASS
			30~1000	-5.41	-60.7	≤ -25.41	PASS
			1000~26500	-5.41	-47.79	≤ -25.41	PASS
		2452	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-60.79	≤ -25.23	PASS
			1000~26500	-5.23	-47.57	≤ -25.23	PASS

Test Graphs

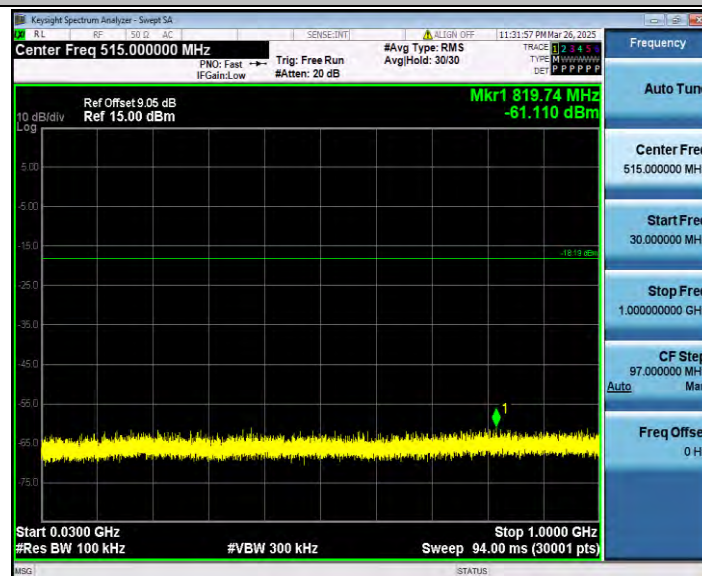




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



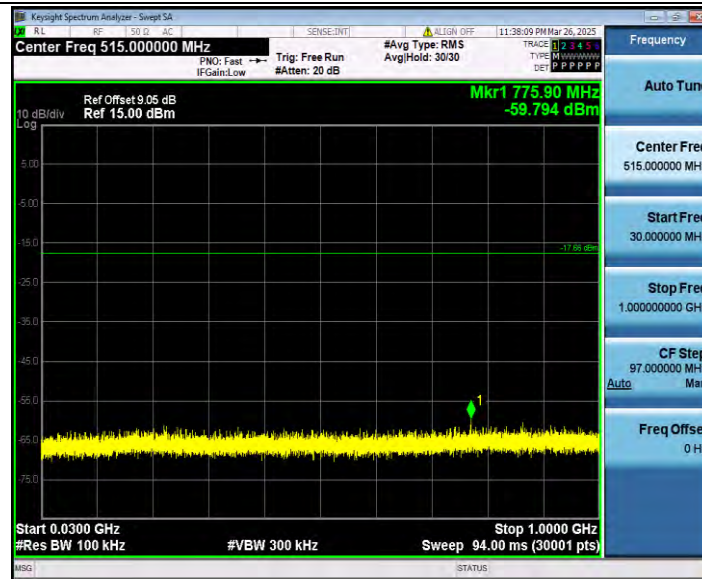
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



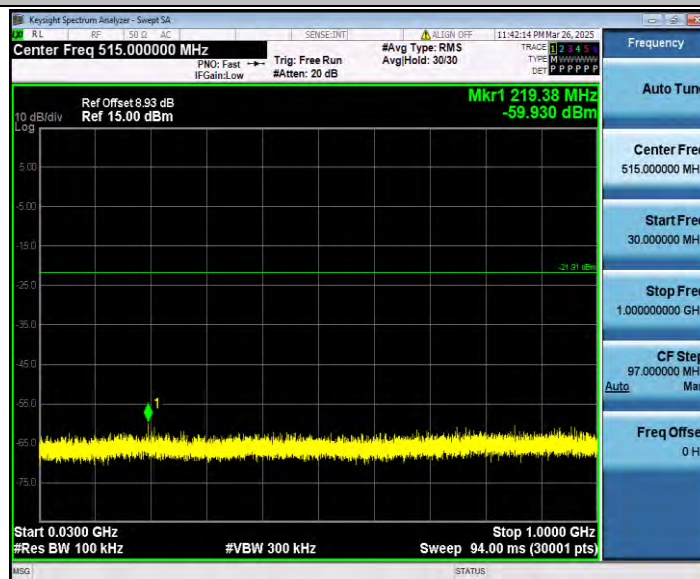
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



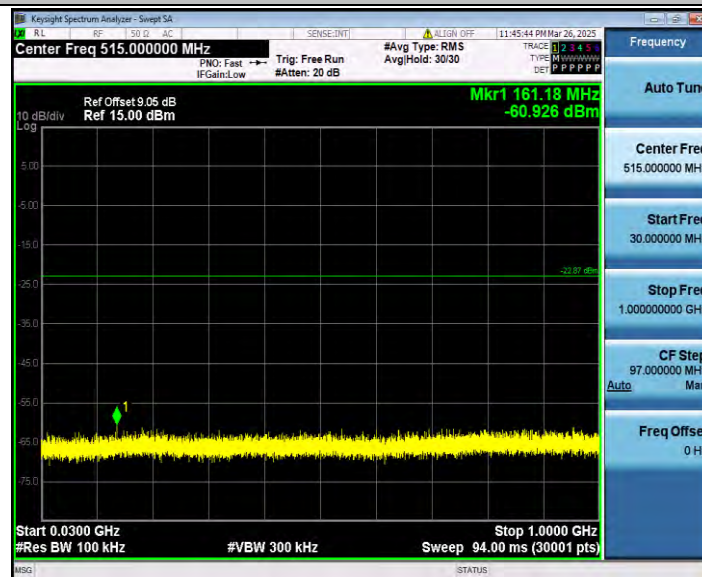
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



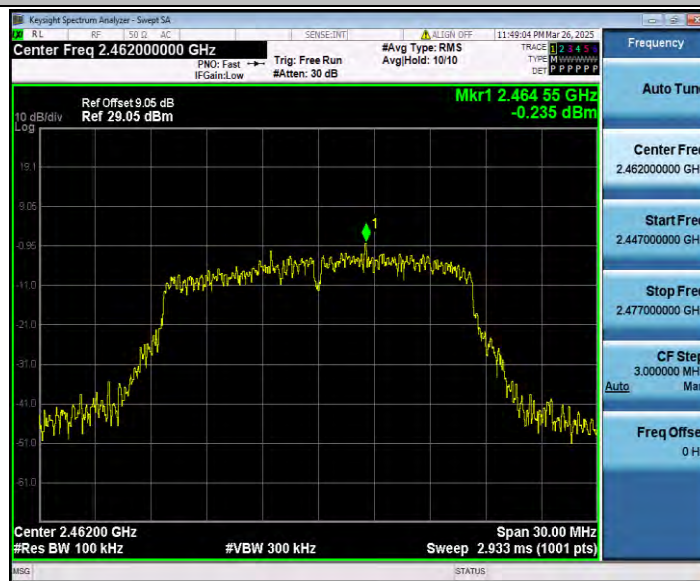
11G_Ant1_2437_30~1000



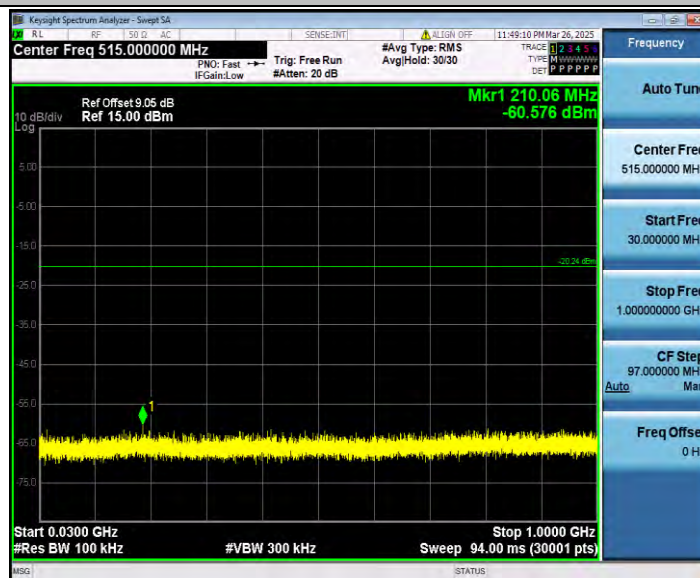
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



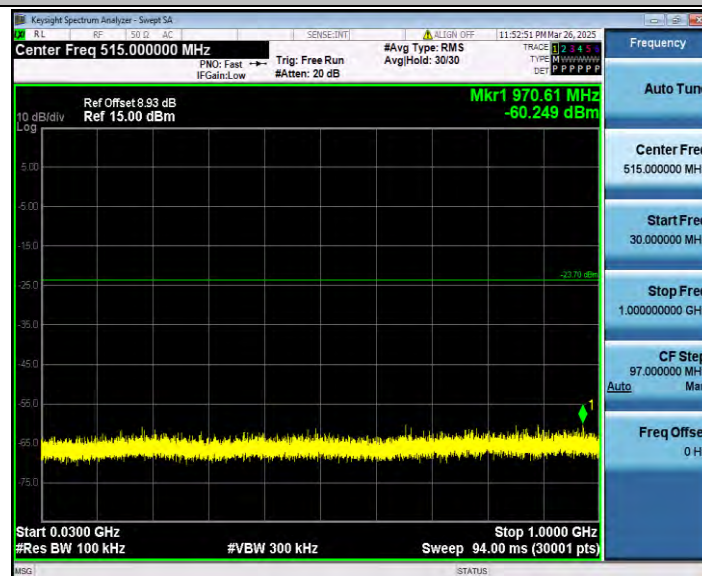
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



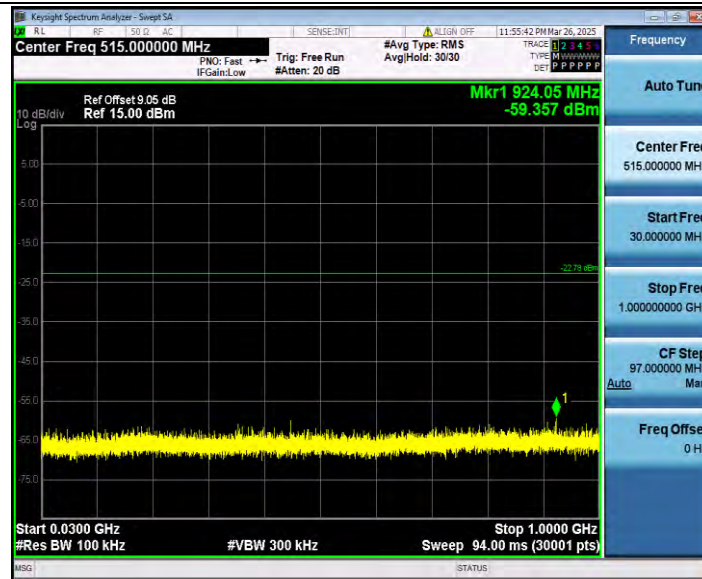
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

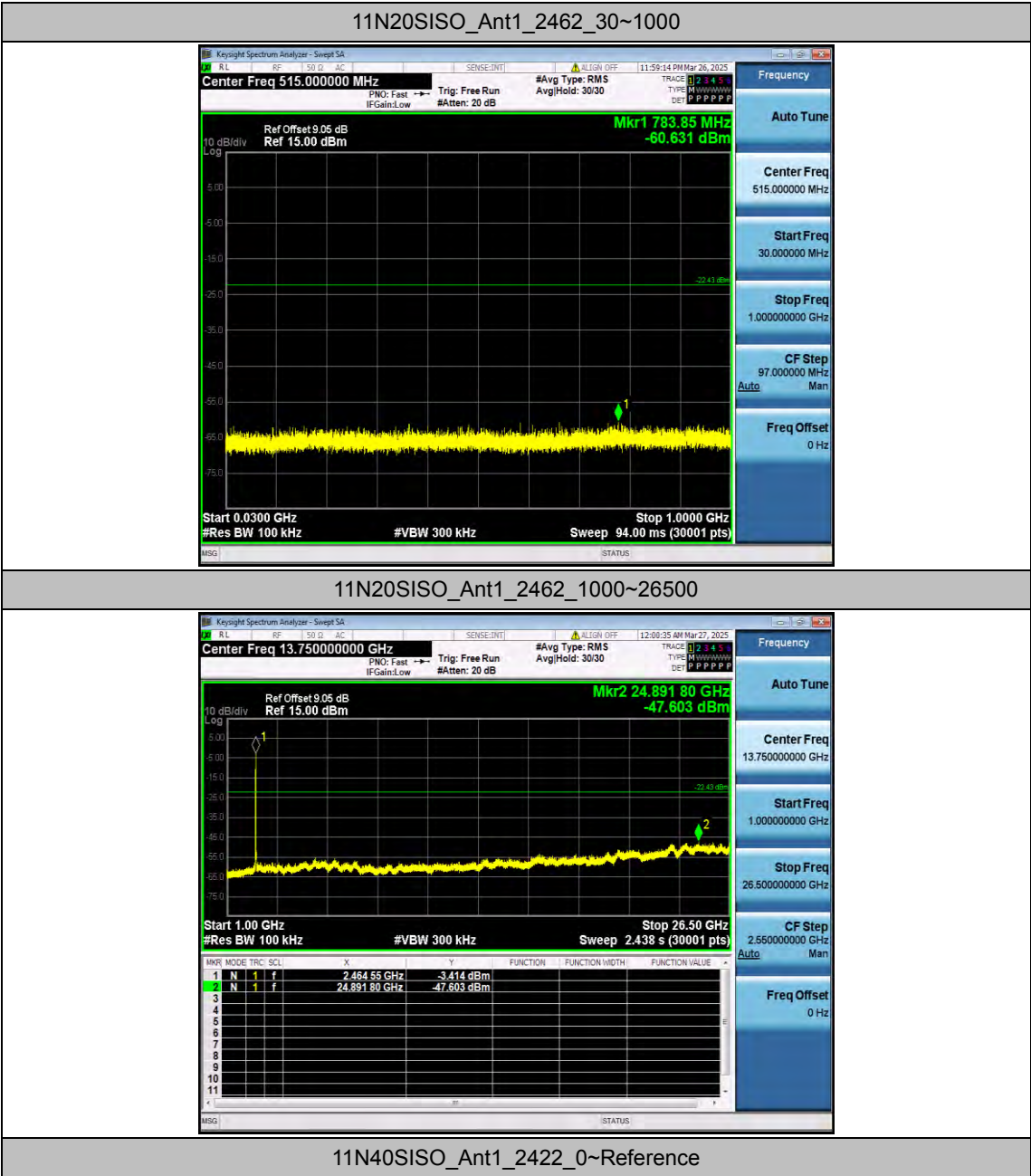


11N20SISO_Ant1_2437_1000~26500



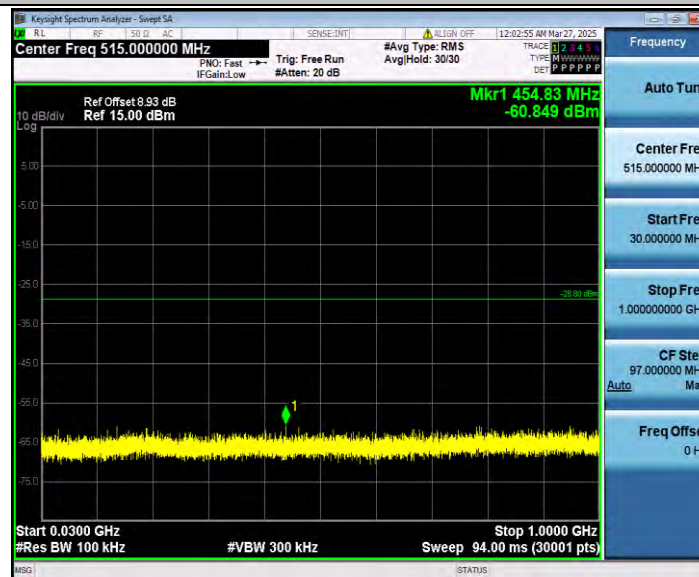
11N20SISO_Ant1_2462_0~Reference







11N40SISO_Ant1_2422_30~1000



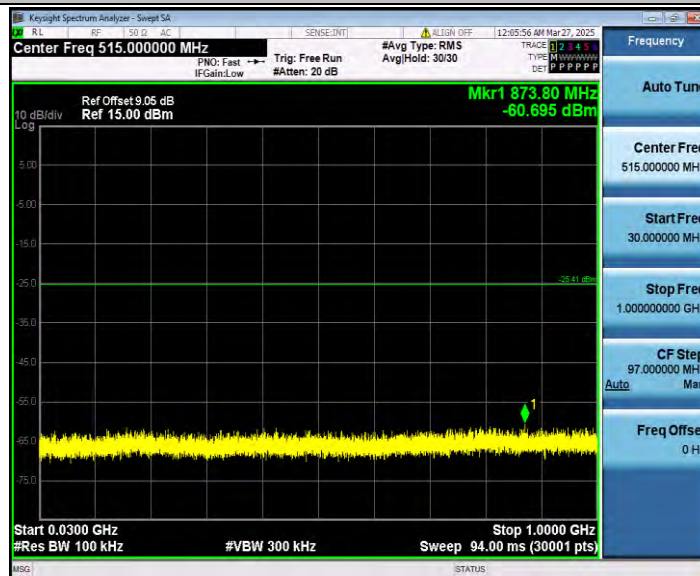
11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



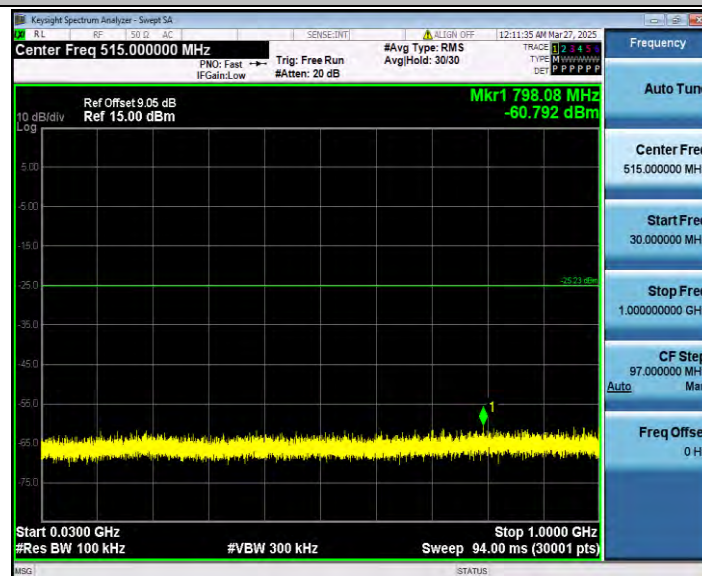
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





Appendix A.7: Emissions in Restricted Bands

Test Result

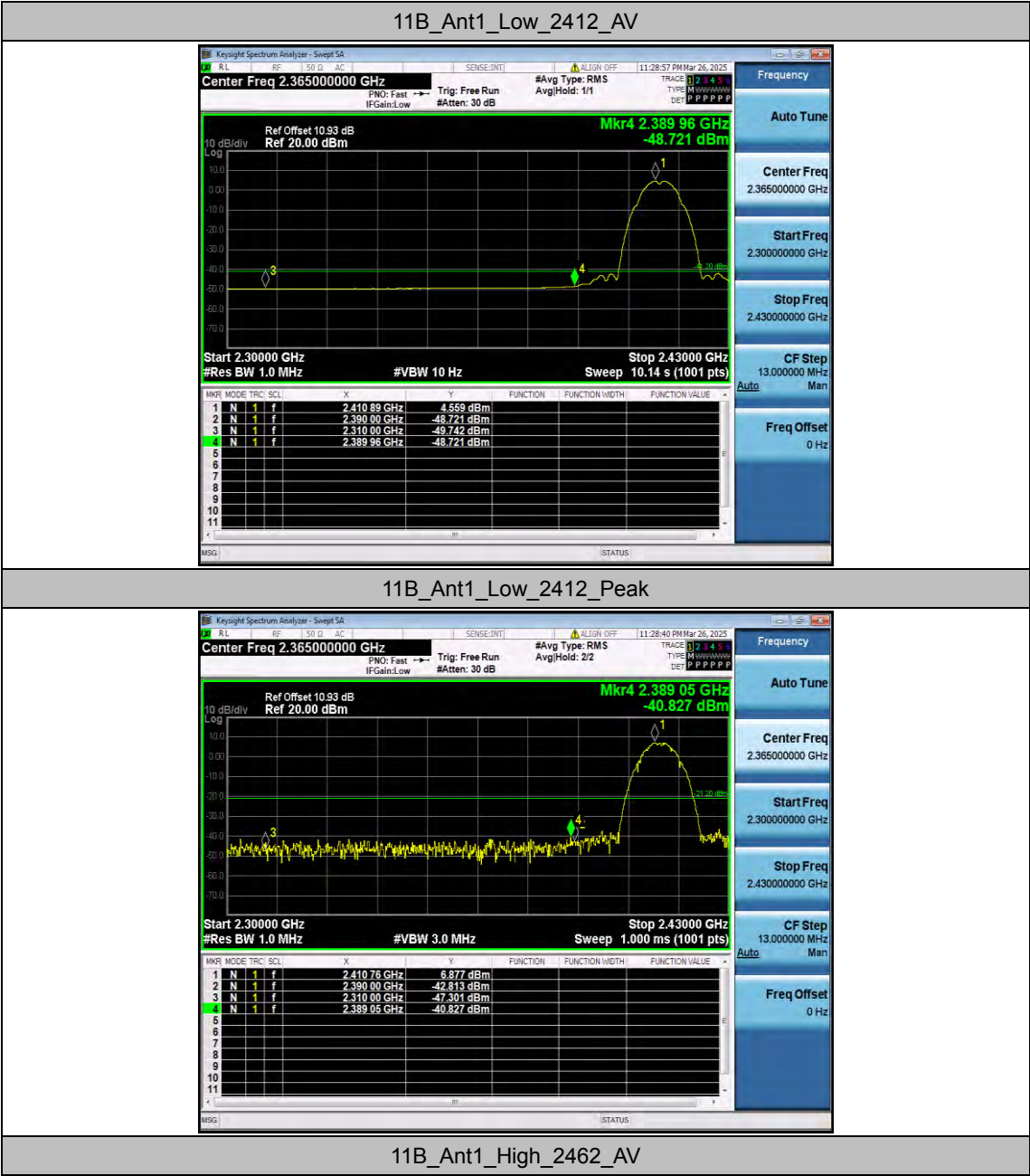
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.74	≤-41.20	45.46	≤54	PASS
				AV	2389.960	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2390.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2310.000	-47.3	≤-21.20	47.90	≤74	PASS
				Peak	2389.050	-40.83	≤-21.20	54.37	≤74	PASS
				Peak	2390.000	-42.81	≤-21.20	52.39	≤74	PASS
		High	2462	AV	2483.500	-48.64	≤-41.20	46.56	≤54	PASS
				AV	2483.560	-48.66	≤-41.20	46.54	≤54	PASS
				AV	2500.000	-49.03	≤-41.20	46.17	≤54	PASS
				Peak	2483.500	-42.92	≤-21.20	52.28	≤74	PASS
				Peak	2497.090	-41	≤-21.20	54.20	≤74	PASS
				Peak	2500.000	-47.56	≤-21.20	47.64	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.74	≤-41.20	45.46	≤54	PASS
				AV	2388.530	-42.92	≤-41.20	52.28	≤54	PASS
				AV	2390.000	-44.54	≤-41.20	50.66	≤54	PASS
				Peak	2310.000	-48.52	≤-21.20	46.68	≤74	PASS
				Peak	2389.700	-31.04	≤-21.20	64.16	≤74	PASS
				Peak	2390.000	-44.39	≤-21.20	50.81	≤74	PASS
		High	2462	AV	2483.500	-47.5	≤-41.20	47.70	≤54	PASS
				AV	2483.560	-47.51	≤-41.20	47.69	≤54	PASS
				AV	2500.000	-48.99	≤-41.20	46.21	≤54	PASS
				Peak	2483.500	-44.29	≤-21.20	50.91	≤74	PASS
				Peak	2497.860	-41.02	≤-21.20	54.18	≤74	PASS
				Peak	2500.000	-45.89	≤-21.20	49.31	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.7	≤-41.20	45.50	≤54	PASS
				AV	2389.570	-43.95	≤-41.20	51.25	≤54	PASS
				AV	2390.000	-46.59	≤-41.20	48.61	≤54	PASS
				Peak	2310.000	-46.94	≤-21.20	48.26	≤74	PASS
				Peak	2340.040	-40.09	≤-21.20	55.11	≤74	PASS
				Peak	2390.000	-43.87	≤-21.20	51.33	≤74	PASS
		High	2462	AV	2483.500	-47.75	≤-41.20	47.45	≤54	PASS
				AV	2483.560	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2500.000	-49.02	≤-41.20	46.18	≤54	PASS
				Peak	2483.500	-46.02	≤-21.20	49.18	≤74	PASS
				Peak	2485.540	-41.22	≤-21.20	53.98	≤74	PASS

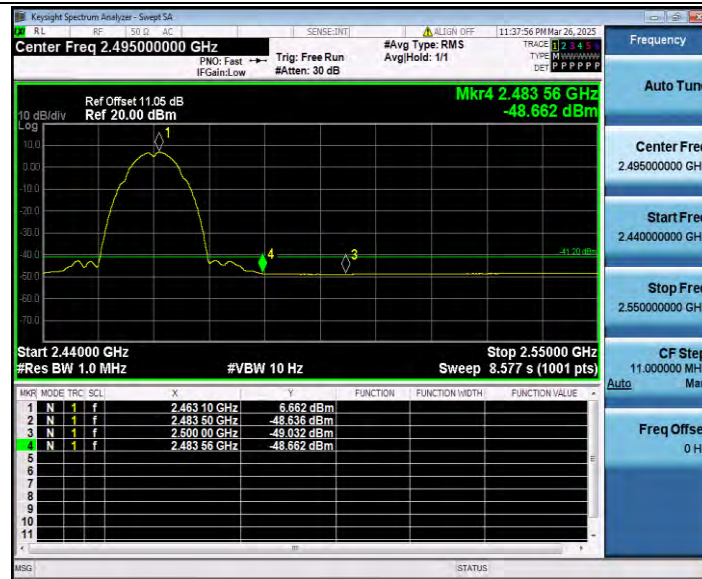
				Peak	2500.000	-46.7	≤ -21.20	48.50	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.73	≤ -41.20	45.47	≤ 54	PASS
				AV	2389.960	-44.64	≤ -41.20	50.56	≤ 54	PASS
				AV	2390.000	-44.65	≤ -41.20	50.55	≤ 54	PASS
				Peak	2310.000	-44.55	≤ -21.20	50.65	≤ 74	PASS
				Peak	2389.960	-37.01	≤ -21.20	58.19	≤ 74	PASS
				Peak	2390.000	-37.01	≤ -21.20	58.19	≤ 74	PASS
		High	2452	AV	2483.500	-45.15	≤ -41.20	50.05	≤ 54	PASS
				AV	2484.110	-45.13	≤ -41.20	50.07	≤ 54	PASS
				AV	2500.000	-49	≤ -41.20	46.20	≤ 54	PASS
				Peak	2483.500	-43.56	≤ -21.20	51.64	≤ 74	PASS
				Peak	2489.390	-34.45	≤ -21.20	60.75	≤ 74	PASS
				Peak	2500.000	-47.24	≤ -21.20	47.96	≤ 74	PASS

Note:

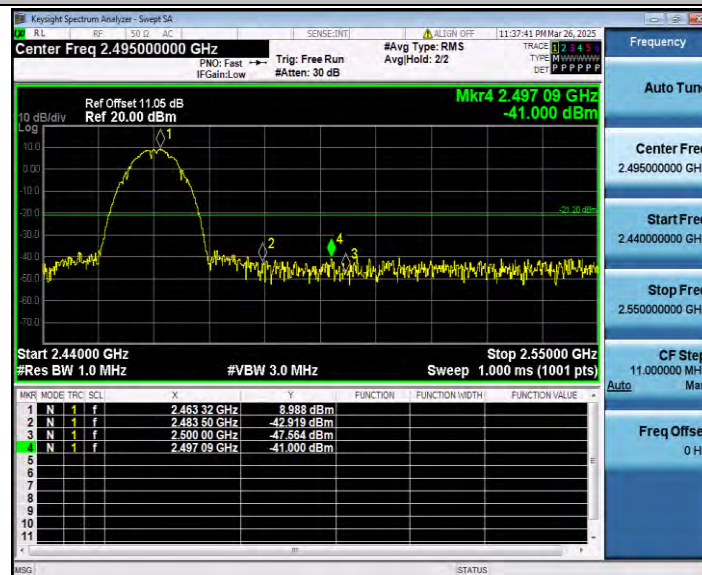
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





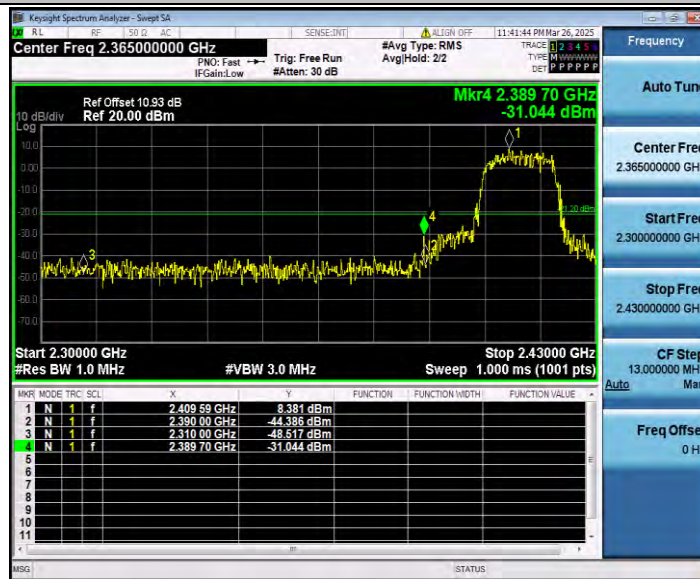
11B_Ant1_High_2462_Peak



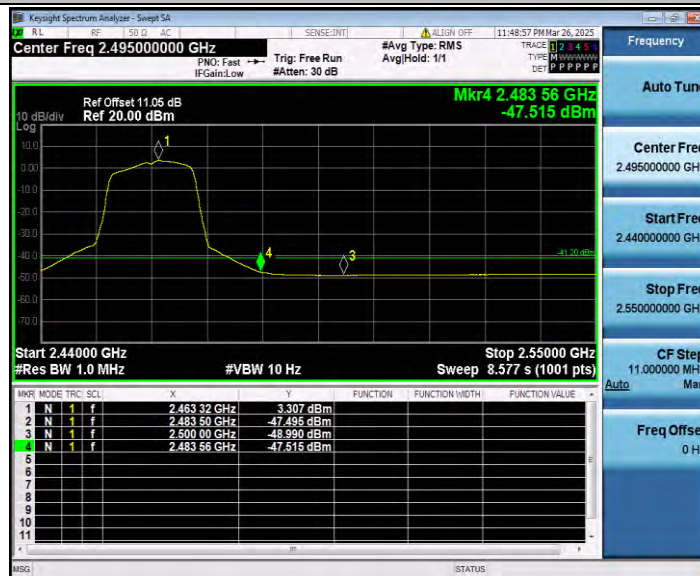
11G_Ant1_Low_2412_AV



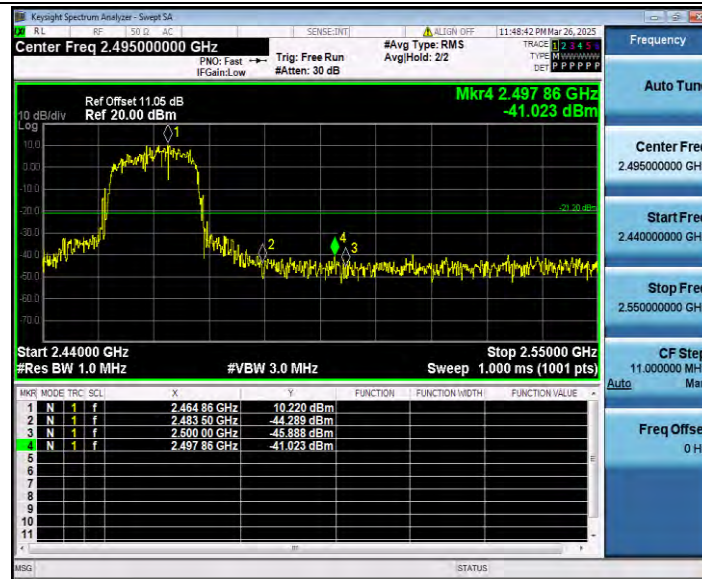
11G_Ant1_Low_2412_Peak



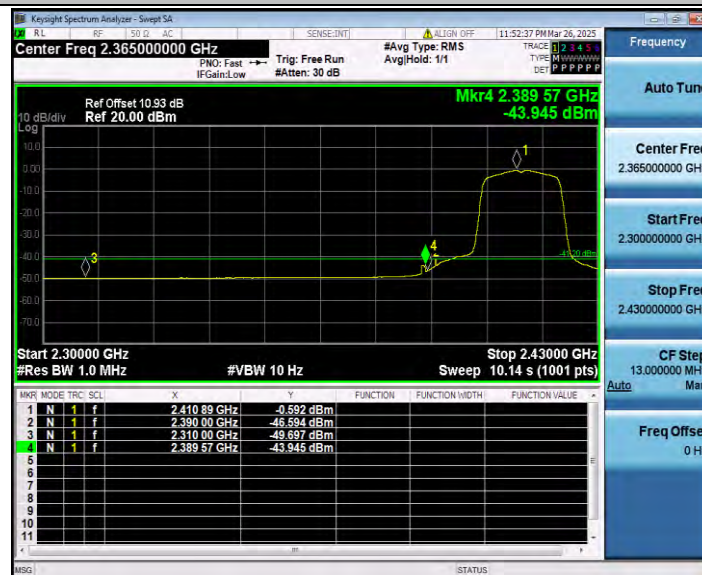
11G_Ant1_High_2462_AV



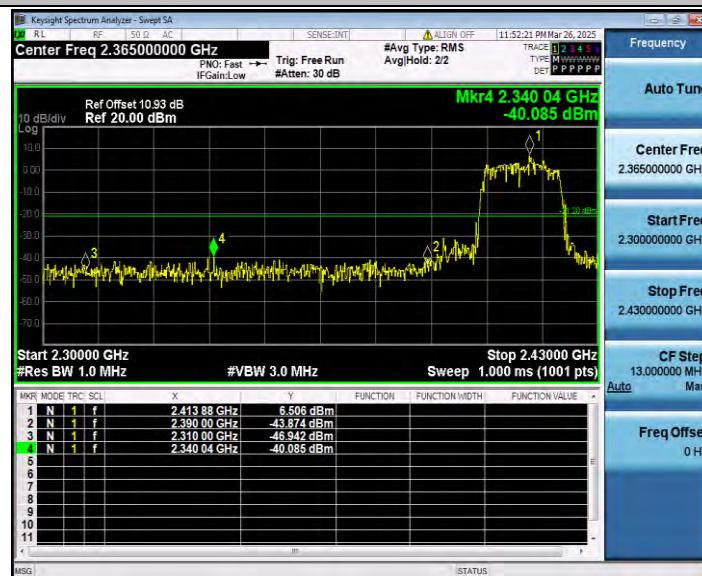
11G_Ant1_High_2462_Peak



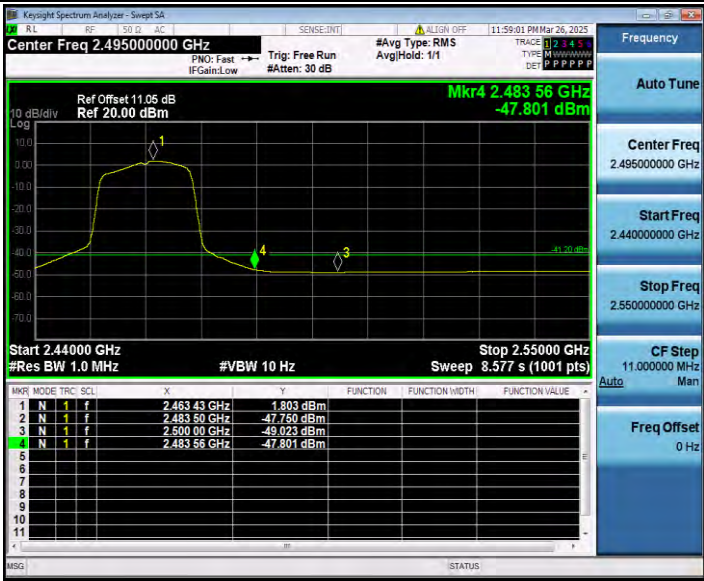
11N20SISO_Ant1_Low_2412_AV



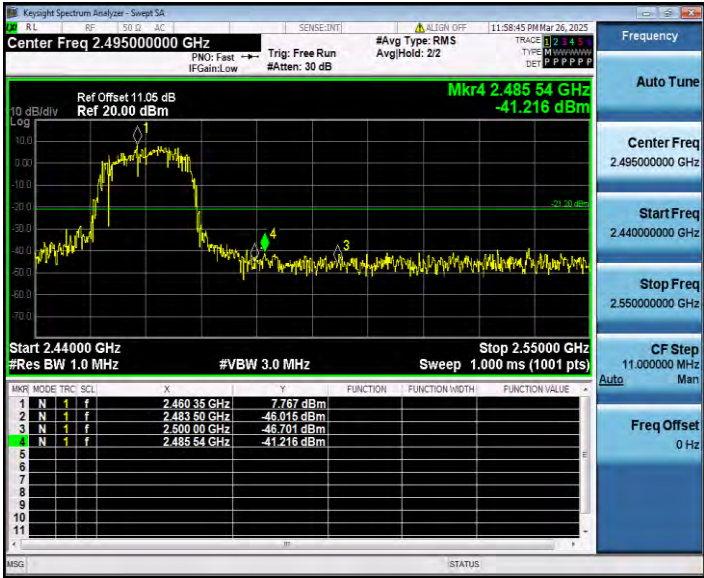
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



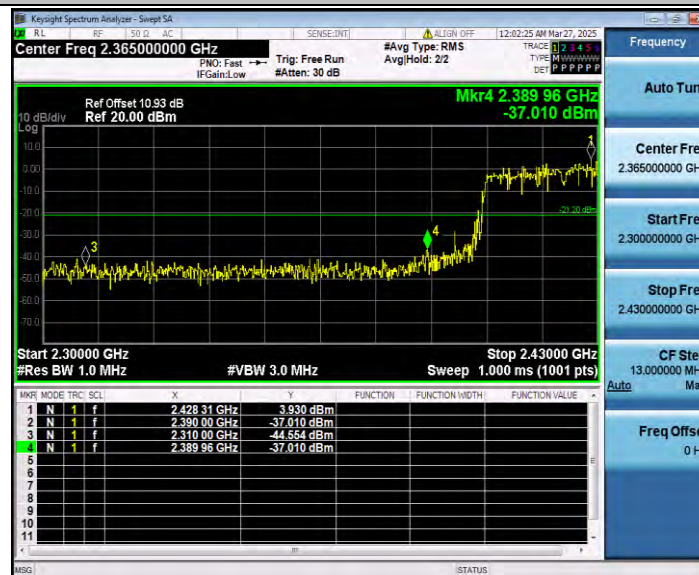
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



