

Case No. : <u>GTS20250304004-1-1</u>	
Ambient Condition: <u>22</u> °C, <u>56</u> %RH,	
Test Date: <u>2025.3.6</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	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.000	2454.560	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

Test Graphs





11G_Ant1_2412



11G_Ant1_2437



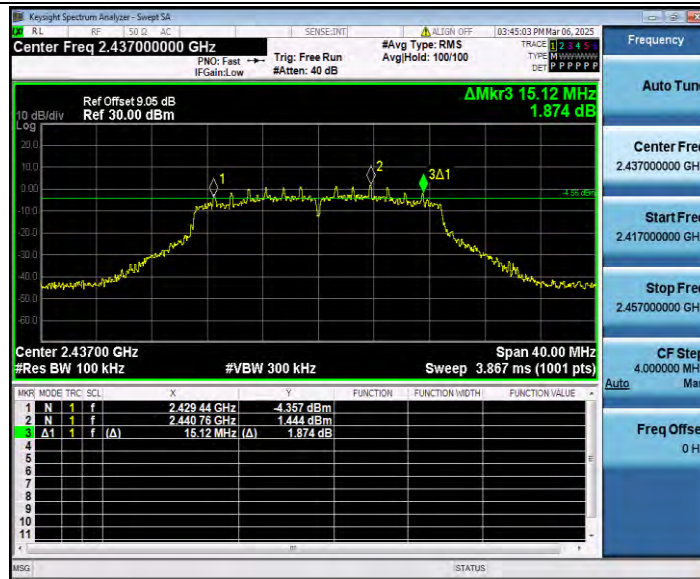
11G_Ant1_2462



11N20SISO_Ant1_2412



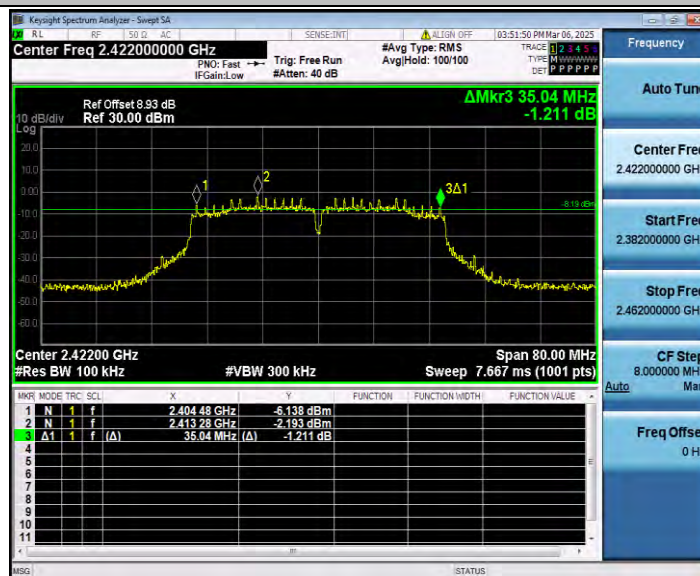
11N20SISO_Ant1_2437



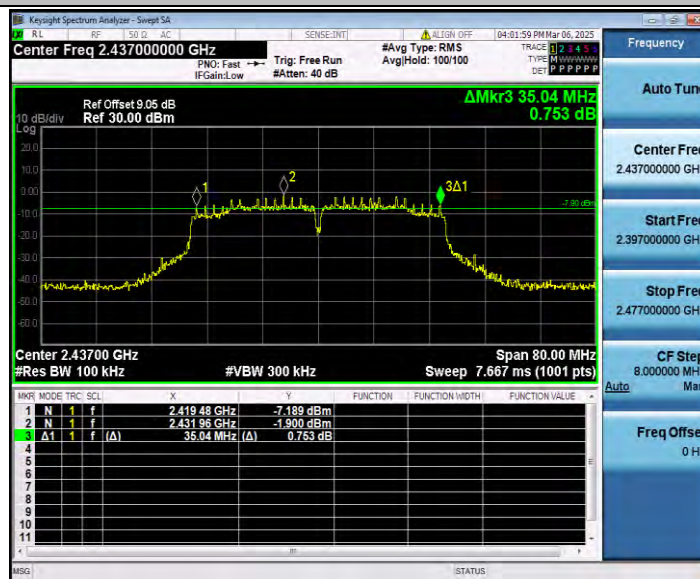
11N20SISO_Ant1_2462



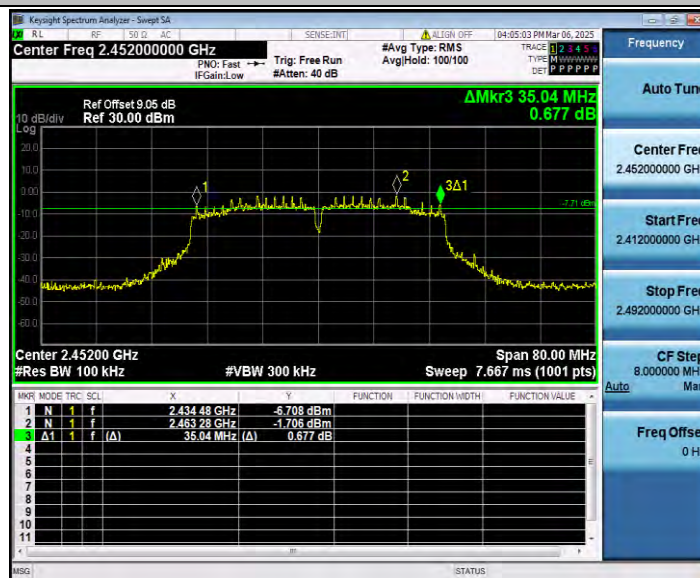
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



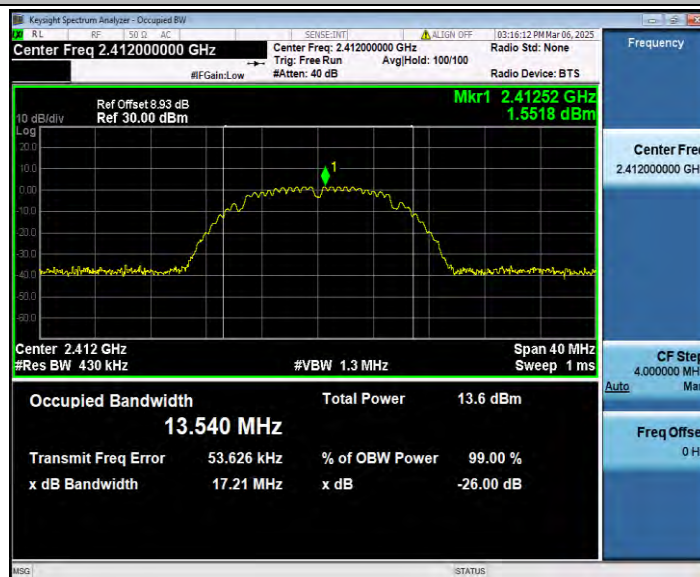
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.540	2405.2836	2418.8236	---	---
		2437	13.491	2430.3310	2443.8220	---	---
		2462	13.458	2455.2865	2468.7445	---	---
11G	Ant1	2412	16.846	2403.6569	2420.5029	---	---
		2437	16.803	2428.7114	2445.5144	---	---
		2462	16.875	2453.5703	2470.4453	---	---
11N20SISO	Ant1	2412	17.930	2403.0850	2421.0150	---	---
		2437	17.917	2428.1323	2446.0493	---	---
		2462	17.847	2453.0812	2470.9282	---	---
11N40SISO	Ant1	2422	36.078	2403.9089	2439.9869	---	---
		2437	36.061	2419.0403	2455.1013	---	---
		2452	36.025	2434.0394	2470.0644	---	---

Test Graphs

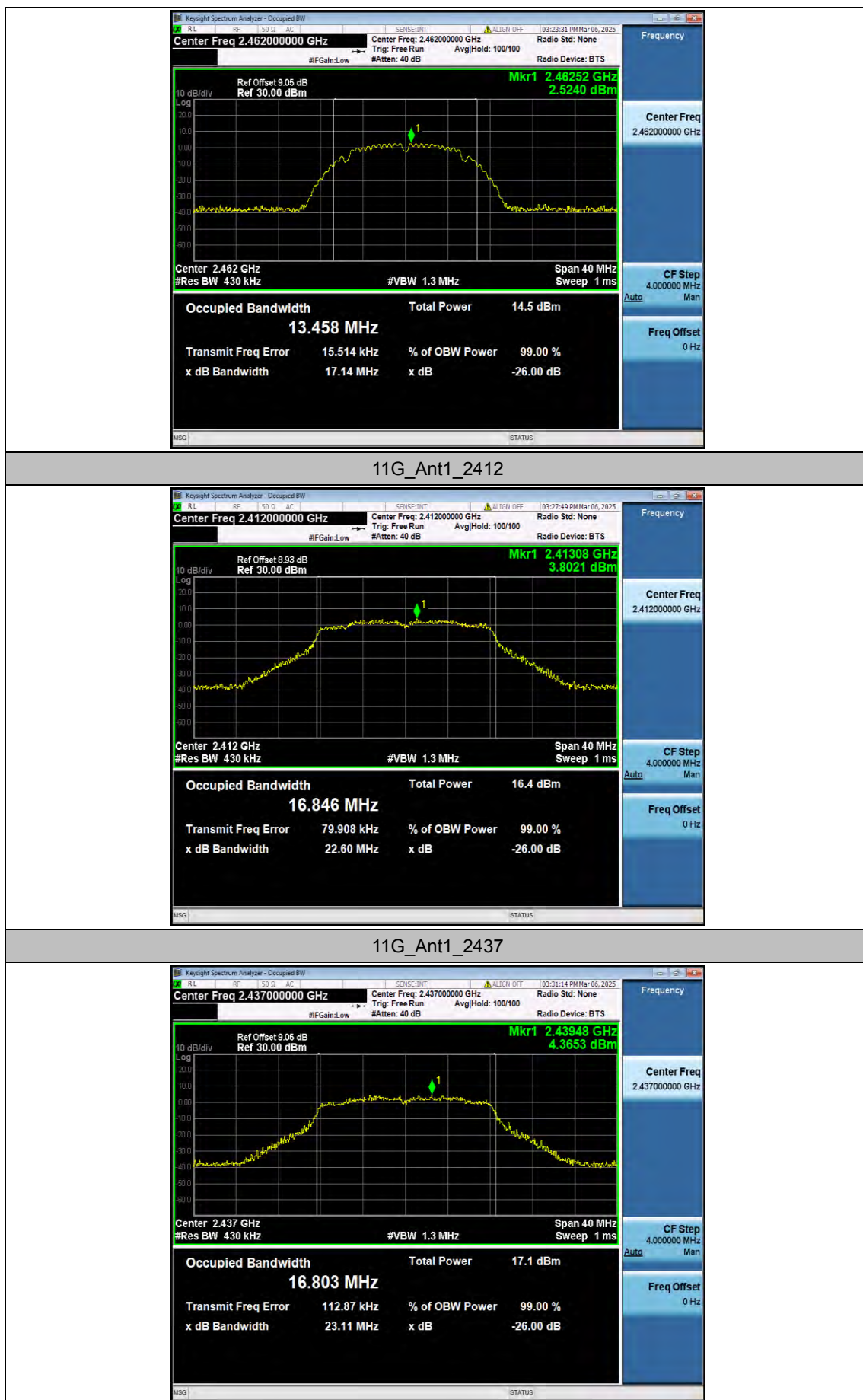
11B_Ant1_2412



11B_Ant1_2437



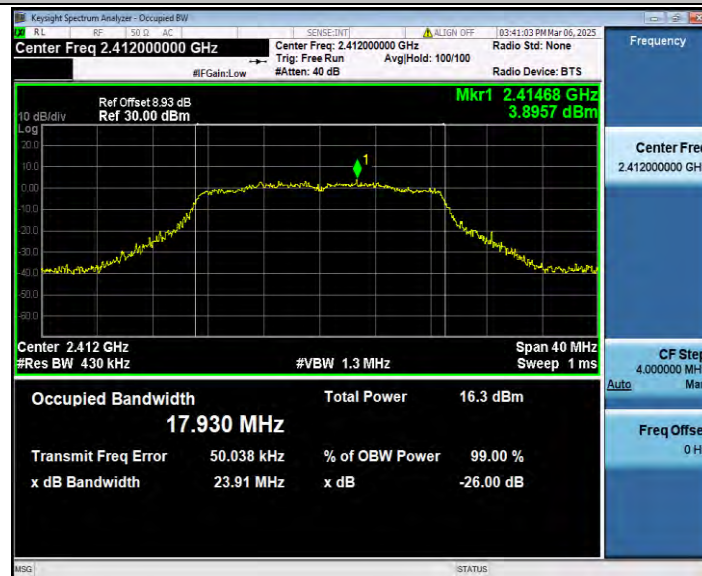
11B_Ant1_2462



11G_Ant1_2462



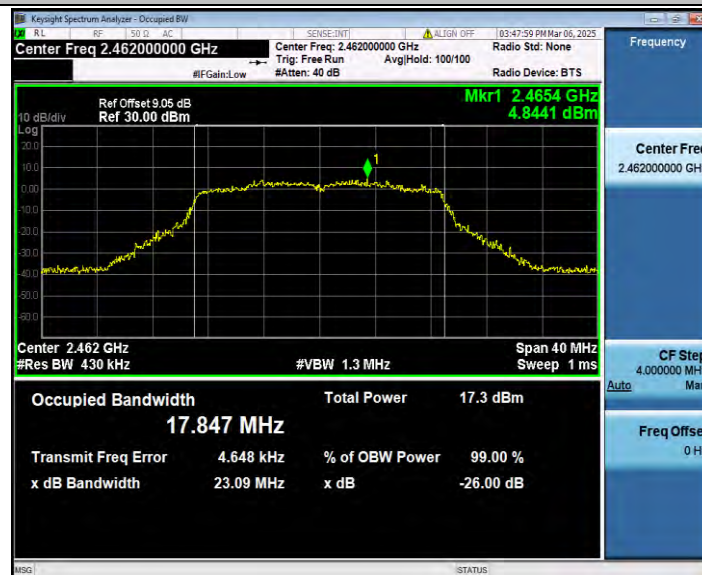
11N20SISO_Ant1_2412



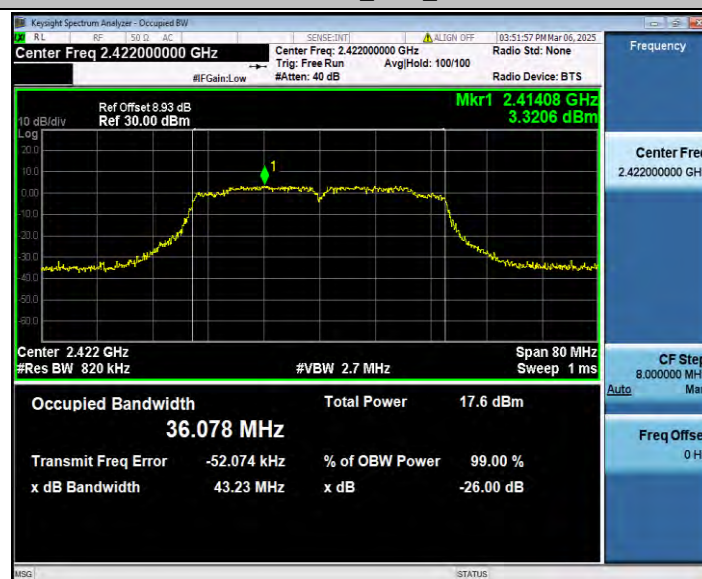
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



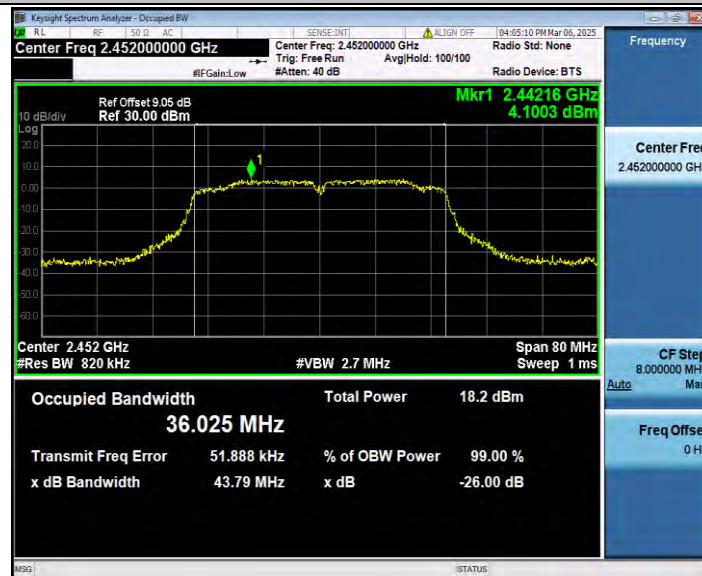
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency[M Hz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.75	≤30.00	PASS
		2437	14.25	≤30.00	PASS
		2462	14.56	≤30.00	PASS
11G	Ant1	2412	17.53	≤30.00	PASS
		2437	18.08	≤30.00	PASS
		2462	18.39	≤30.00	PASS
11N20SISO	Ant1	2412	17.41	≤30.00	PASS
		2437	18.00	≤30.00	PASS
		2462	18.27	≤30.00	PASS
11N40SISO	Ant1	2422	17.80	≤30.00	PASS
		2437	18.12	≤30.00	PASS
		2452	18.47	≤30.00	PASS

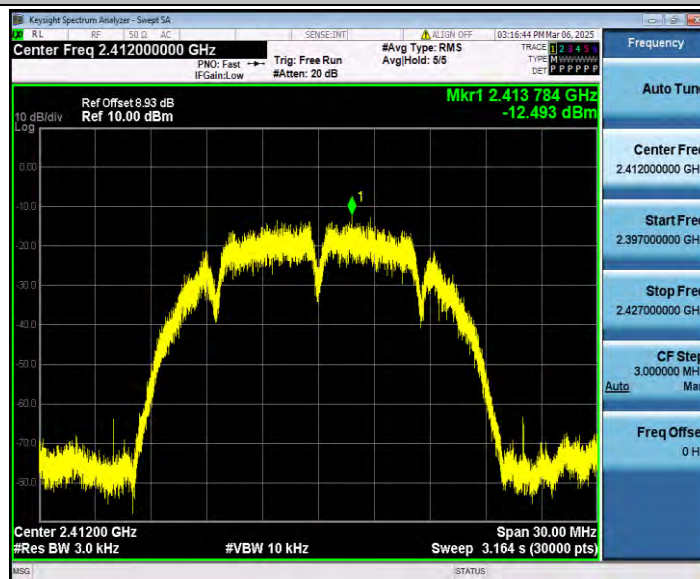
Appendix A.4: Maximum power spectral density

Test Result

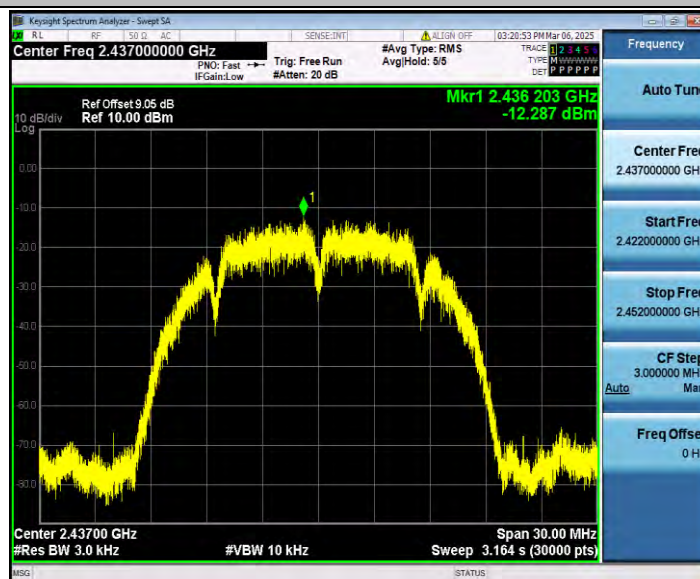
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.49	≤8.00	PASS
		2437	-12.29	≤8.00	PASS
		2462	-12.47	≤8.00	PASS
11G	Ant1	2412	-15.06	≤8.00	PASS
		2437	-14.29	≤8.00	PASS
		2462	-14.10	≤8.00	PASS
11N20SISO	Ant1	2412	-14.96	≤8.00	PASS
		2437	-14.10	≤8.00	PASS
		2462	-13.67	≤8.00	PASS
11N40SISO	Ant1	2422	-16.99	≤8.00	PASS
		2437	-16.85	≤8.00	PASS
		2452	-15.32	≤8.00	PASS

Test Graphs

11B_Ant1_2412



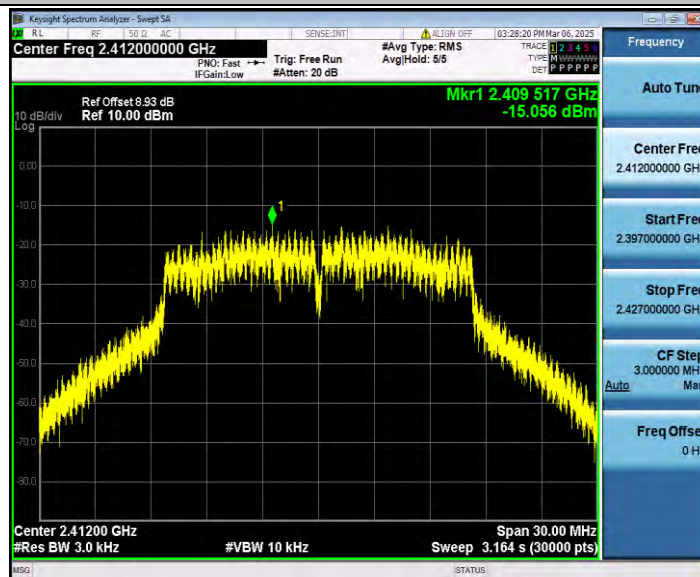
11B_Ant1_2437



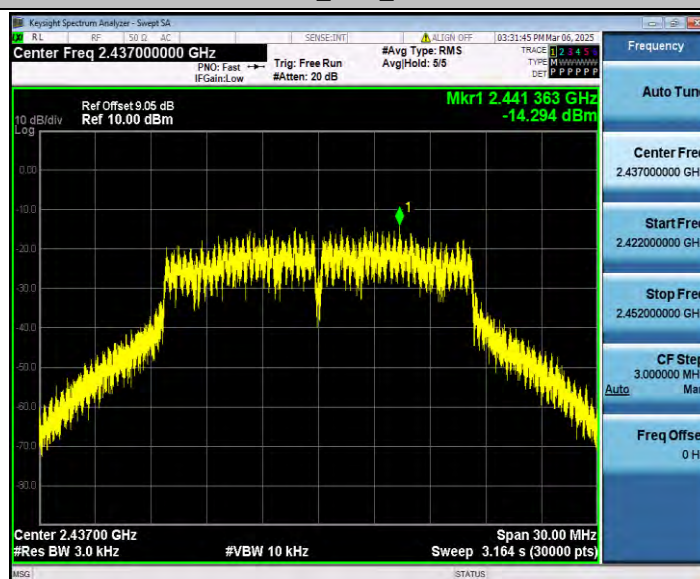
11B_Ant1_2462



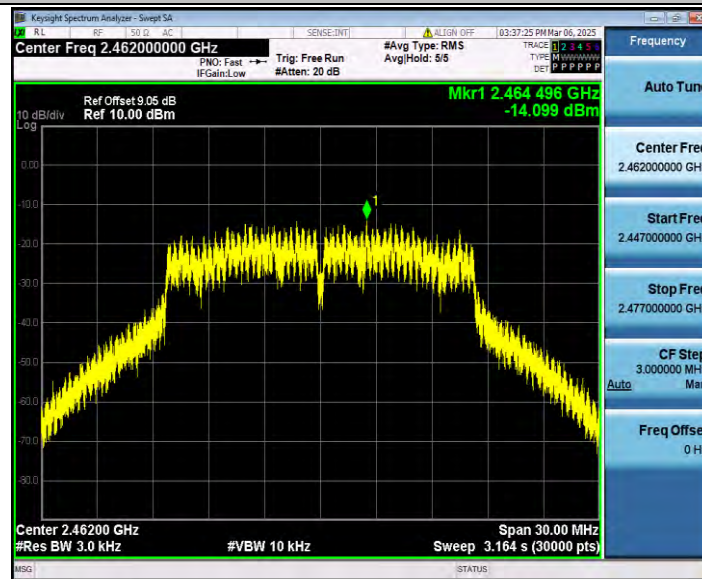
11G_Ant1_2412



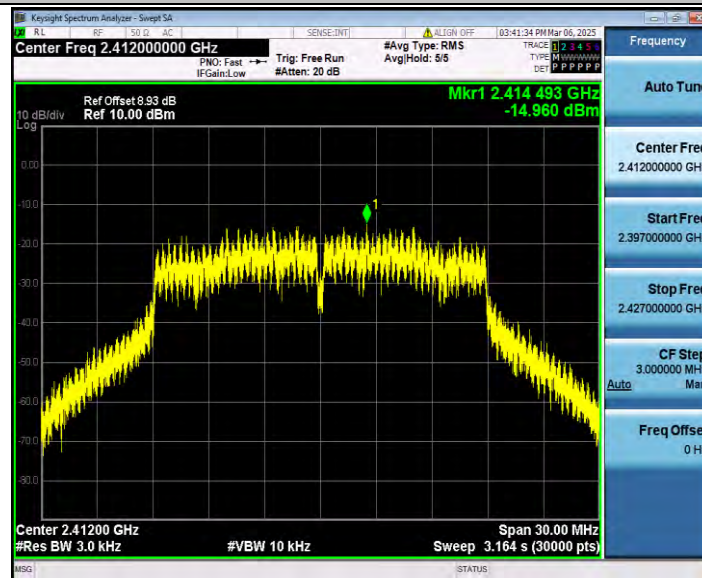
11G_Ant1_2437



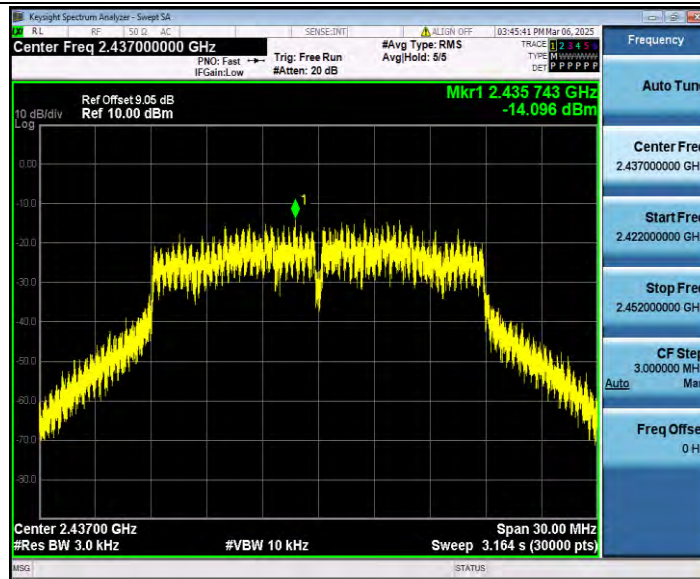
11G_Ant1_2462



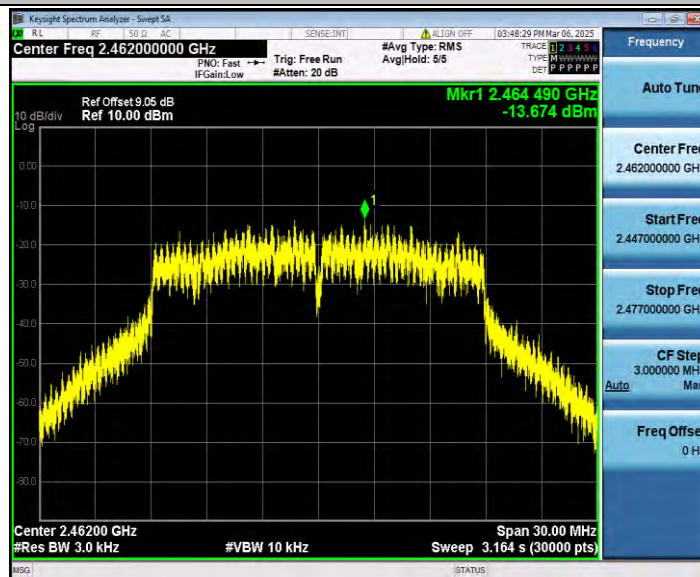
11N20SISO_Ant1_2412



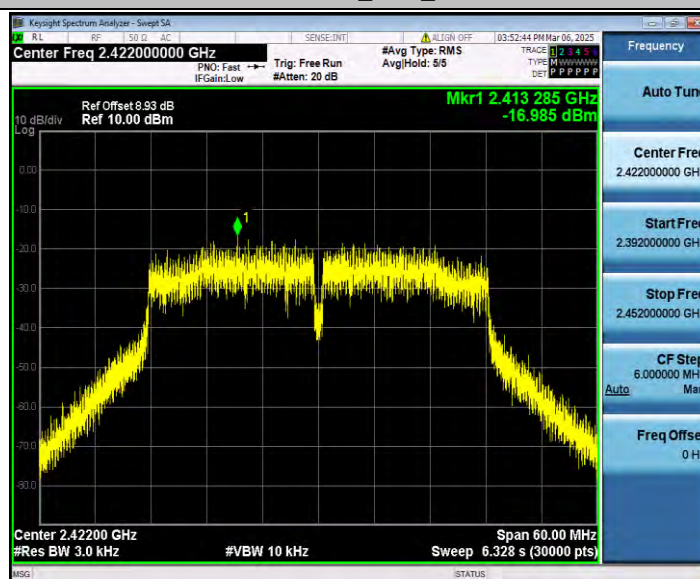
11N20SISO_Ant1_2437



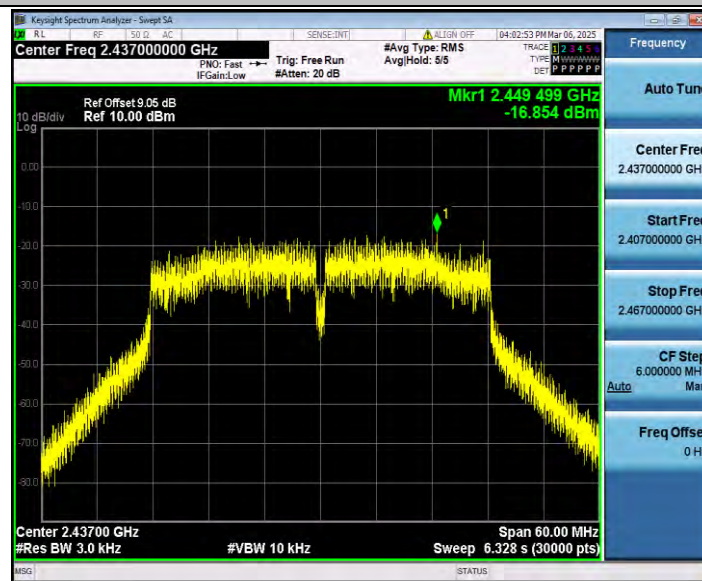
11N20SISO_Ant1_2462



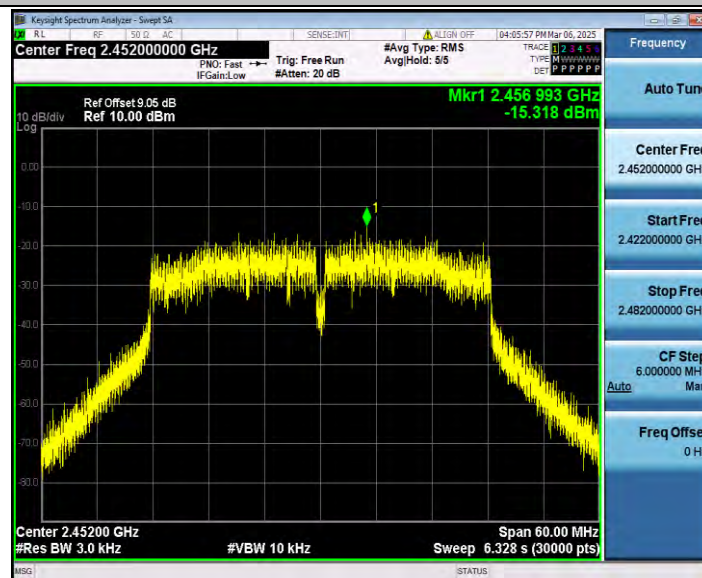
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



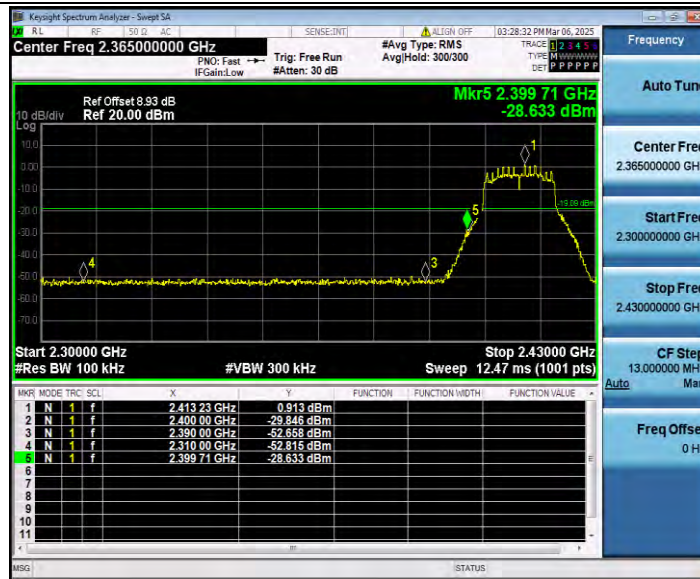
Appendix A.5: Band edge measurements

Test Result

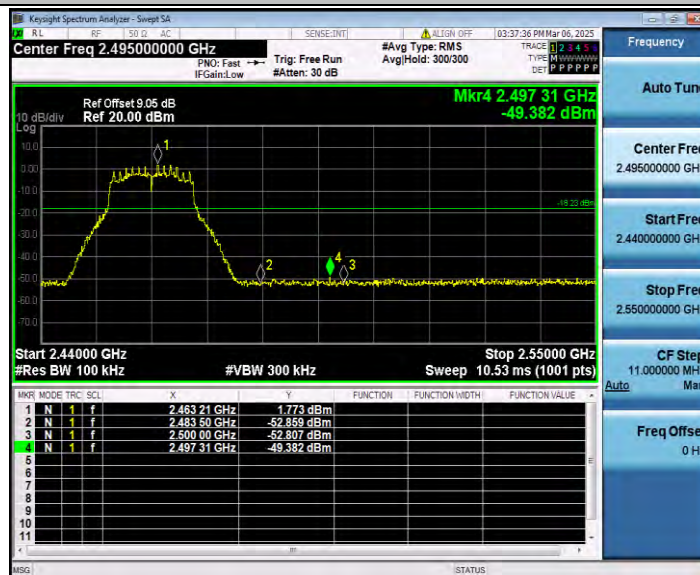
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.97	-48.79	≤-19.03	PASS
		High	2462	2.31	-49.09	≤-17.69	PASS
11G	Ant1	Low	2412	0.91	-28.63	≤-19.09	PASS
		High	2462	1.77	-49.38	≤-18.23	PASS
11N20SISO	Ant1	Low	2412	0.85	-29.16	≤-19.15	PASS
		High	2462	1.90	-49.2	≤-18.1	PASS
11N40SISO	Ant1	Low	2422	-2.20	-29.04	≤-22.2	PASS
		High	2452	-1.51	-44.1	≤-21.51	PASS

Test Graphs

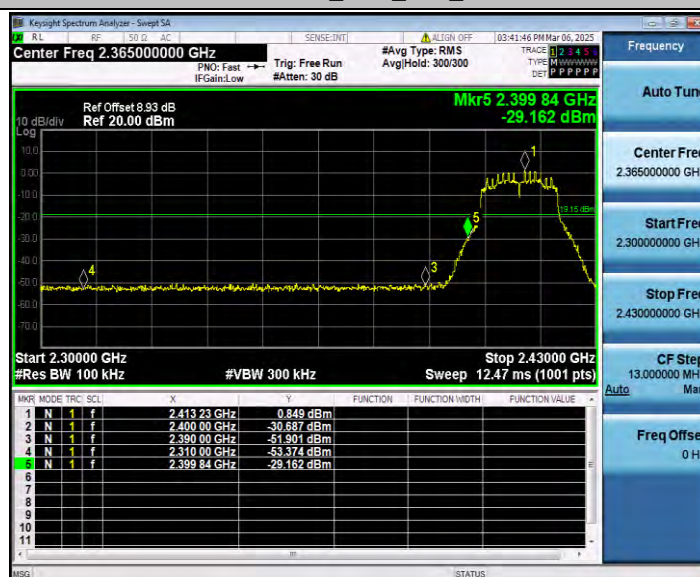




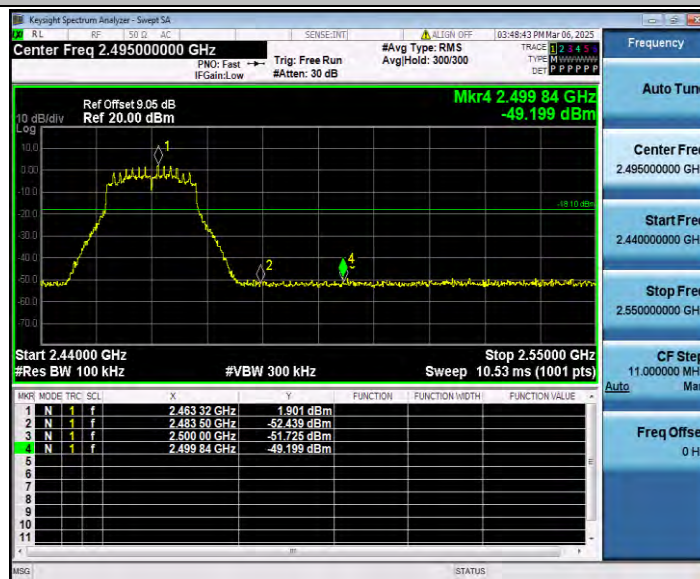
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



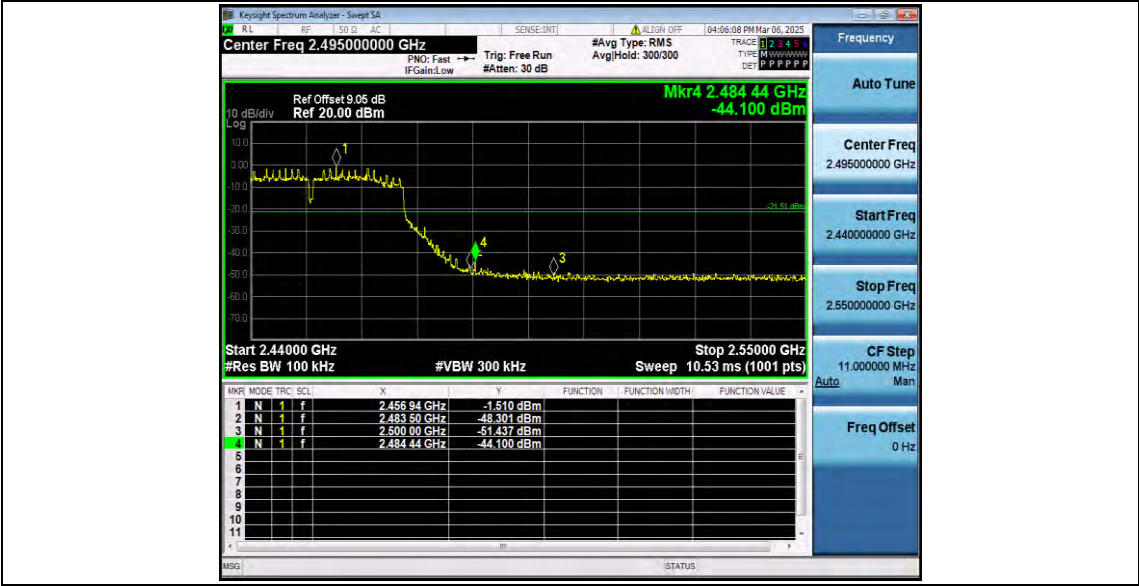
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

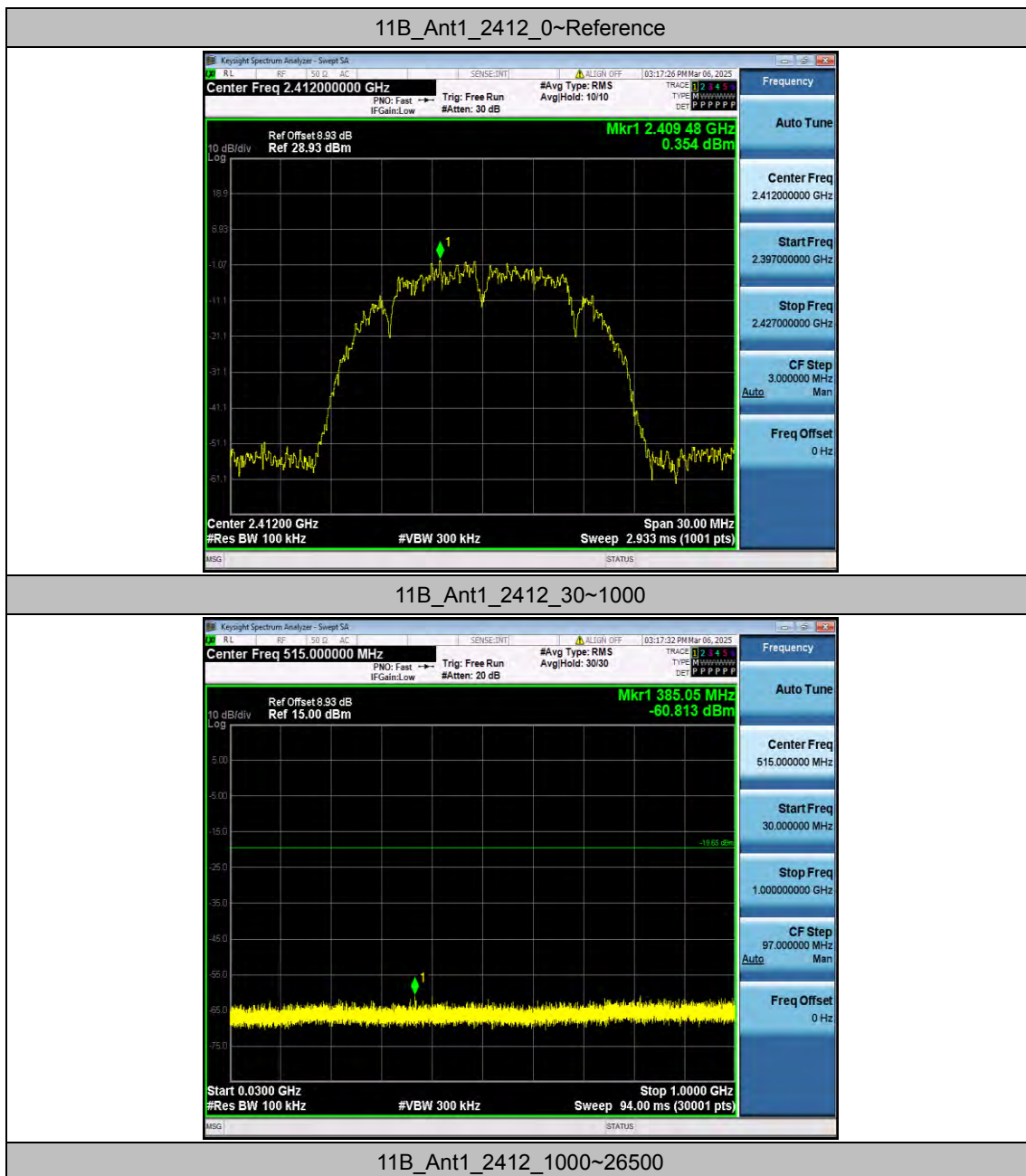


Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-60.81	≤ -19.65	PASS
			1000~26500	0.35	-47.85	≤ -19.65	PASS
		2437	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-60.8	≤ -18.31	PASS
			1000~26500	1.69	-47.97	≤ -18.31	PASS
		2462	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-60.07	≤ -18.04	PASS
			1000~26500	1.96	-46.94	≤ -18.04	PASS
11G	Ant1	2412	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-60.02	≤ -19.6	PASS
			1000~26500	0.40	-47.54	≤ -19.6	PASS
		2437	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-60.51	≤ -19.49	PASS
			1000~26500	0.51	-47.79	≤ -19.49	PASS
		2462	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-60.9	≤ -18.63	PASS
			1000~26500	1.37	-46.7	≤ -18.63	PASS
11N20SISO	Ant1	2412	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-60.43	≤ -20.79	PASS
			1000~26500	-0.79	-47.91	≤ -20.79	PASS
		2437	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-60.5	≤ -18.41	PASS
			1000~26500	1.59	-47.79	≤ -18.41	PASS
		2462	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-60.47	≤ -18.26	PASS
			1000~26500	1.74	-47.59	≤ -18.26	PASS
11N40SISO	Ant1	2422	Reference	-3.02	-3.02	---	PASS
			30~1000	-3.02	-60.7	≤ -23.02	PASS
			1000~26500	-3.02	-48.36	≤ -23.02	PASS
		2437	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-60.41	≤ -22.05	PASS
			1000~26500	-2.05	-47.82	≤ -22.05	PASS
		2452	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-60.87	≤ -22.24	PASS
			1000~26500	-2.24	-47.62	≤ -22.24	PASS

Test Graphs

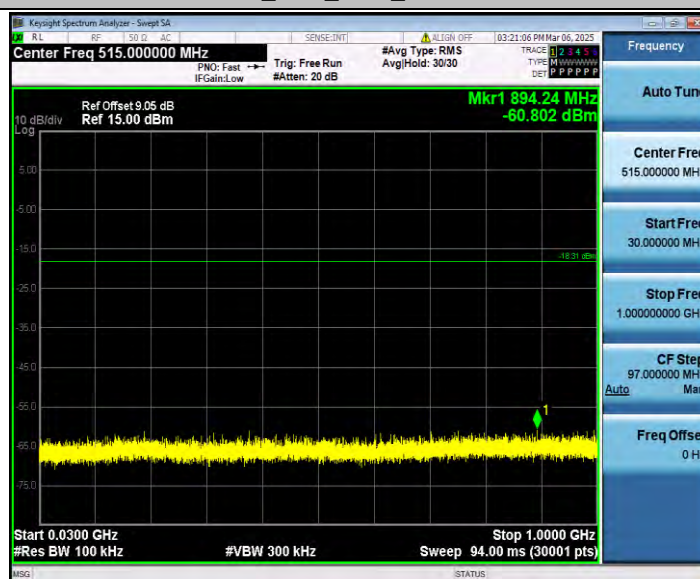




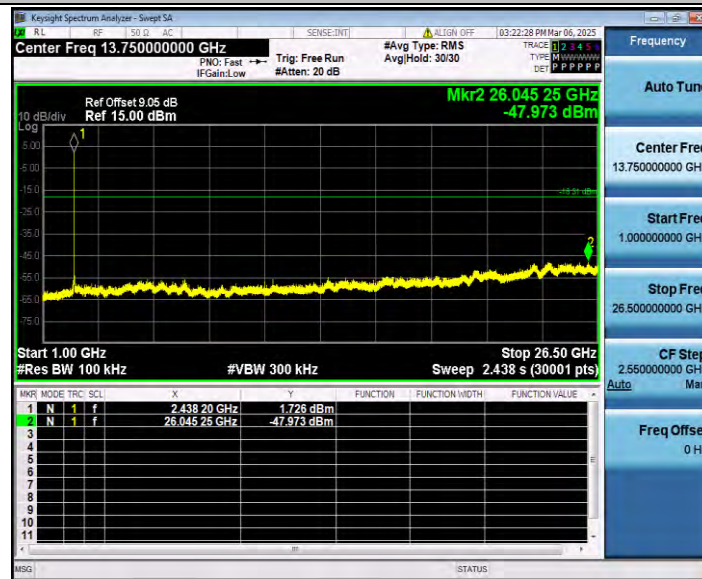
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



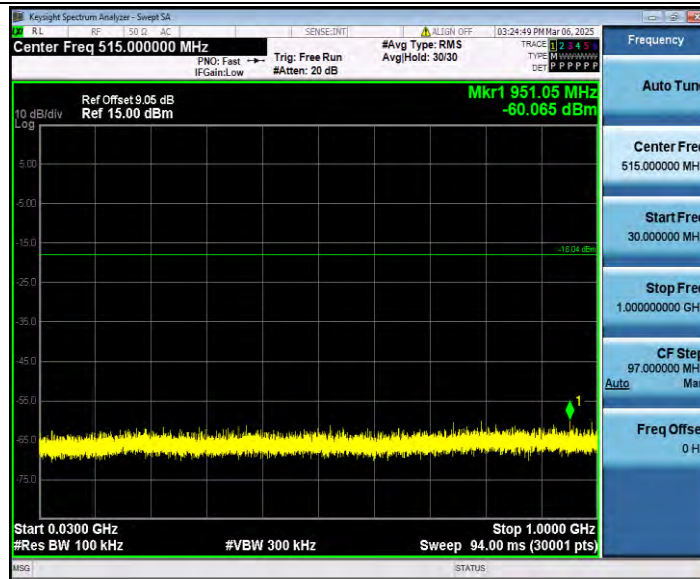
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



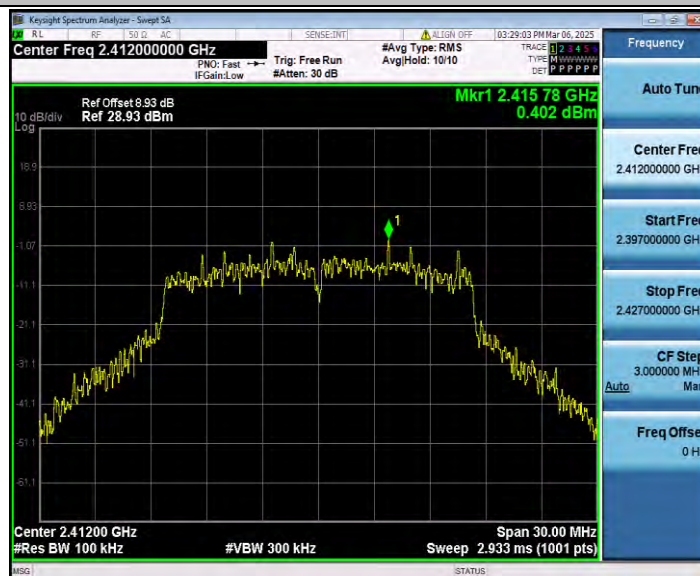
11B_Ant1_2462_30~1000

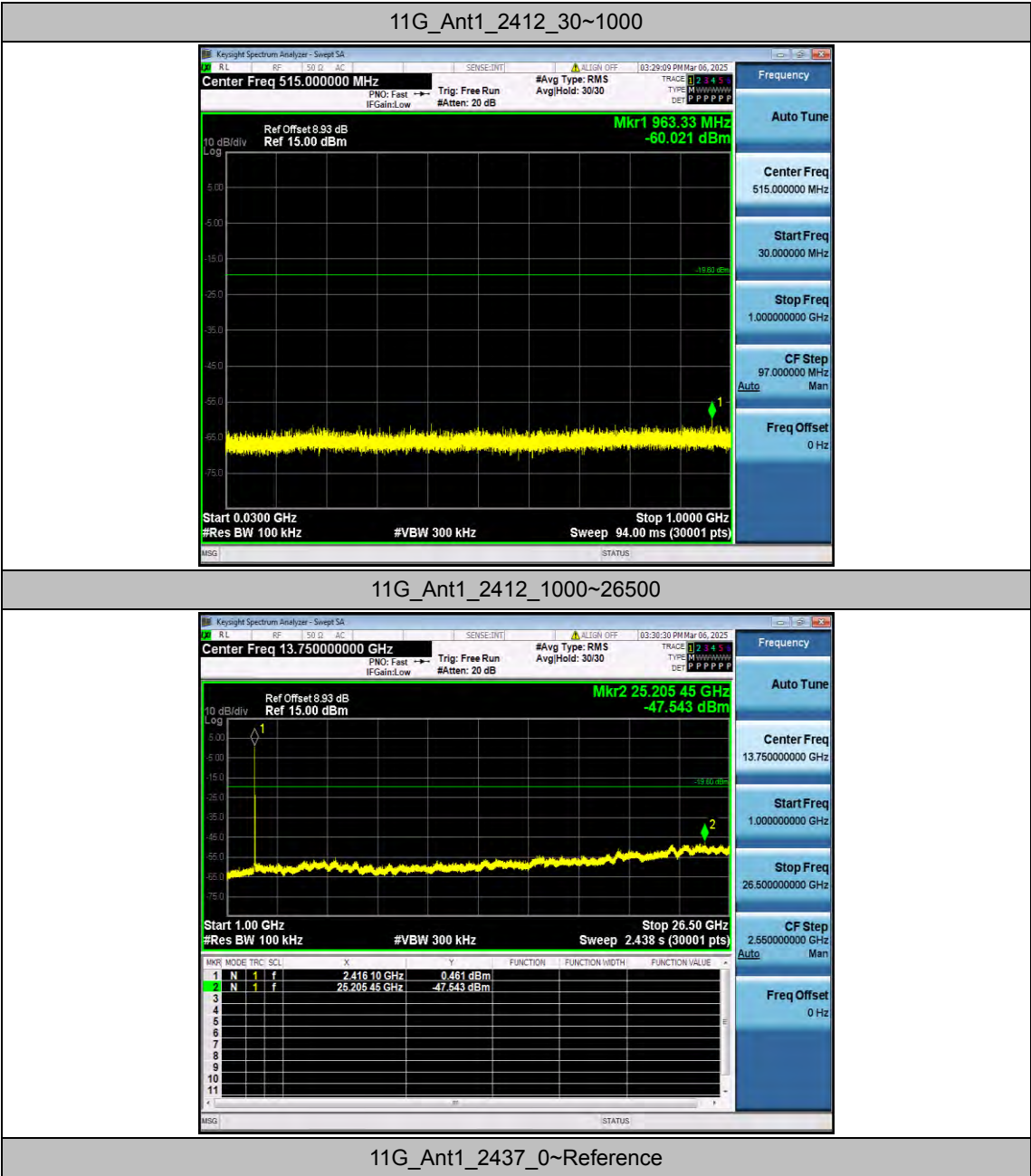


11B_Ant1_2462_1000~26500



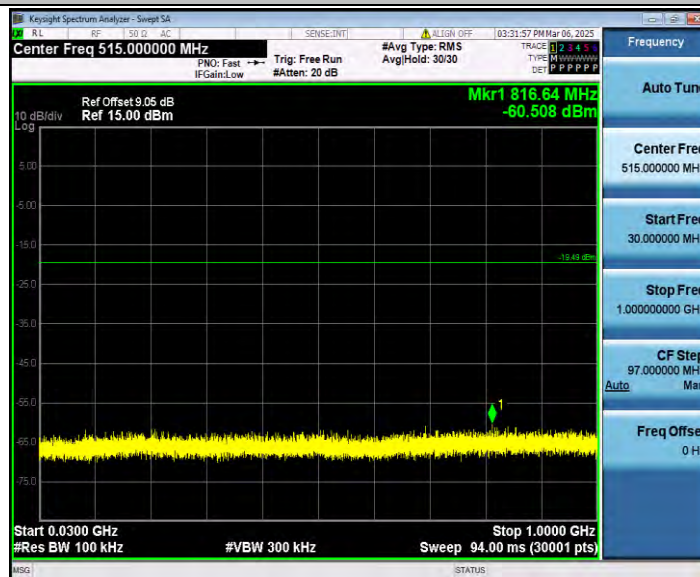
11G_Ant1_2412_0~Reference







11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



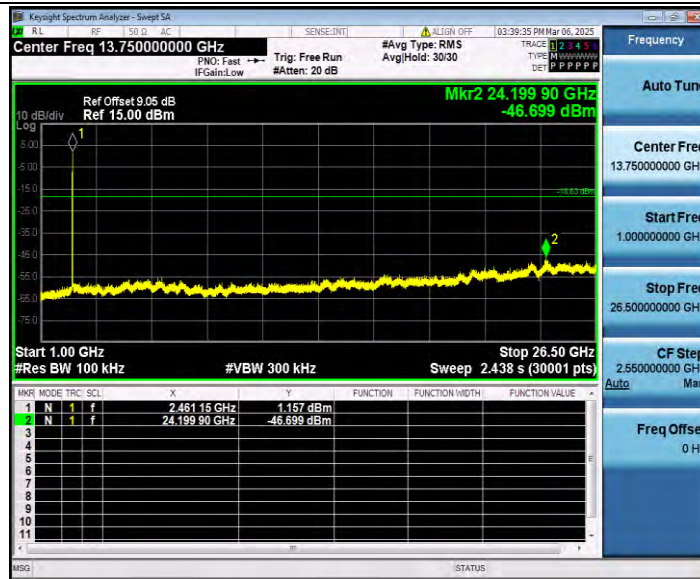
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



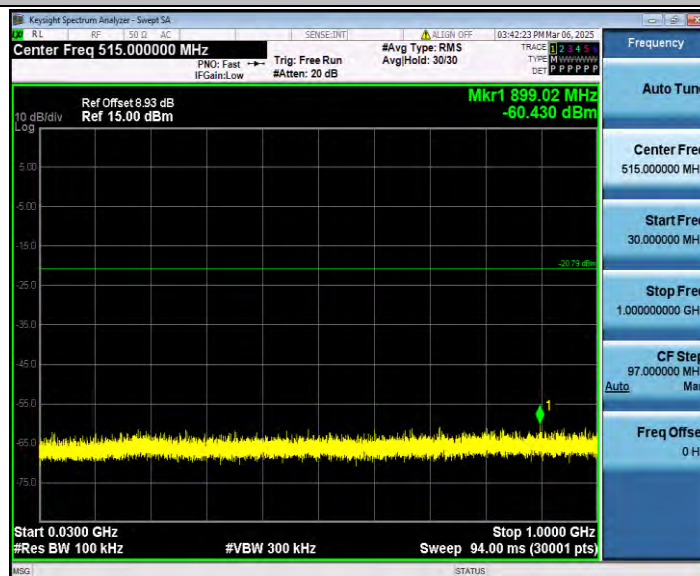
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



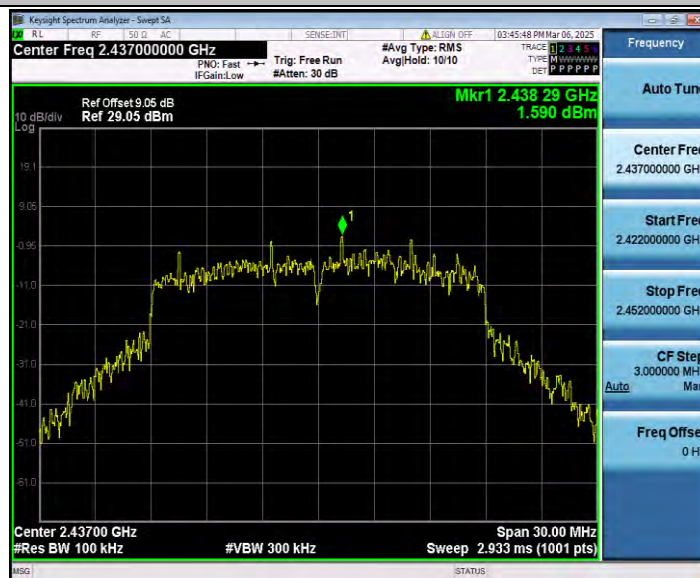
11N20SISO_Ant1_2412_30~1000



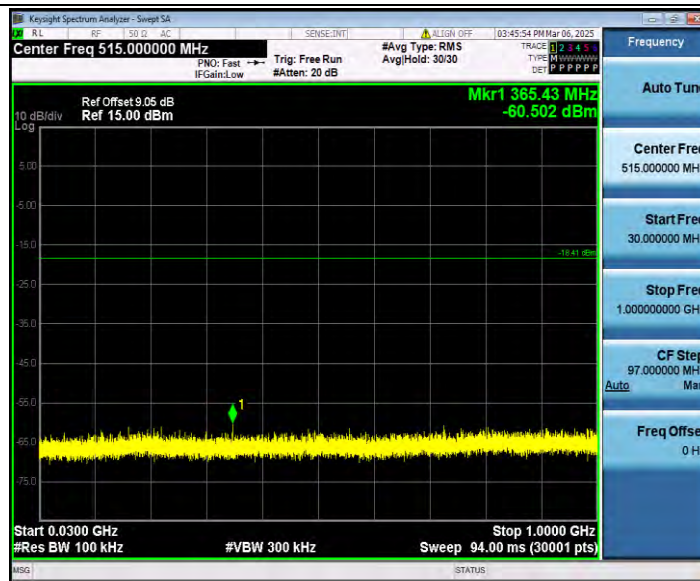
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



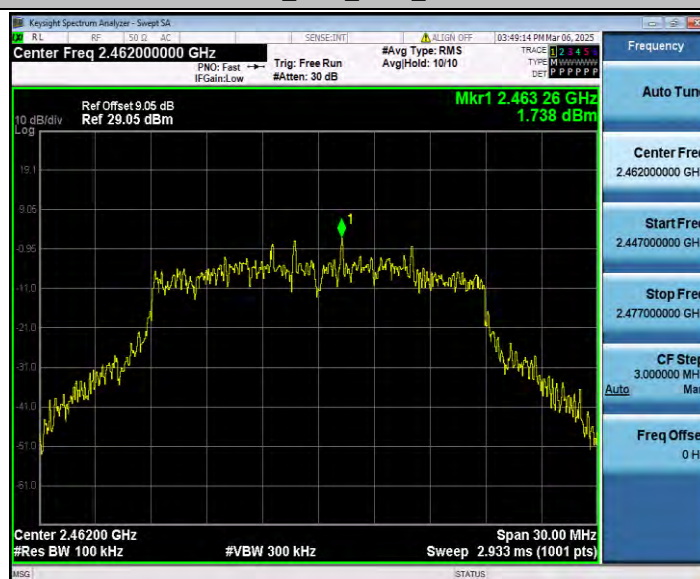
11N20SISO_Ant1_2437_30~1000



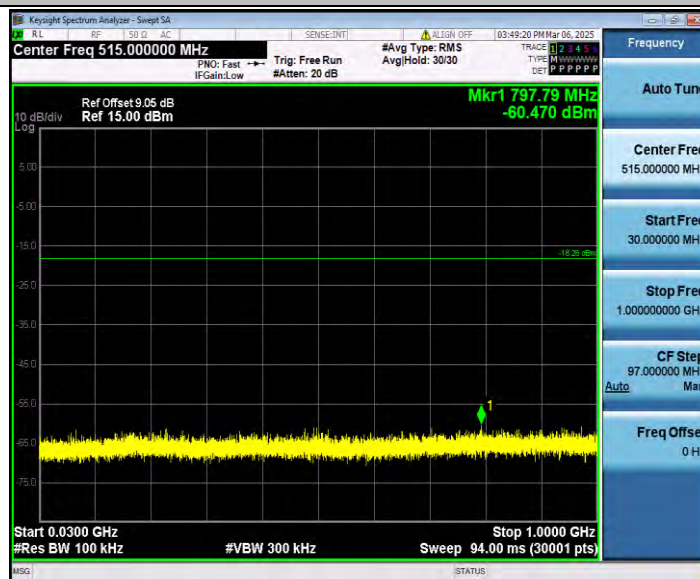
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



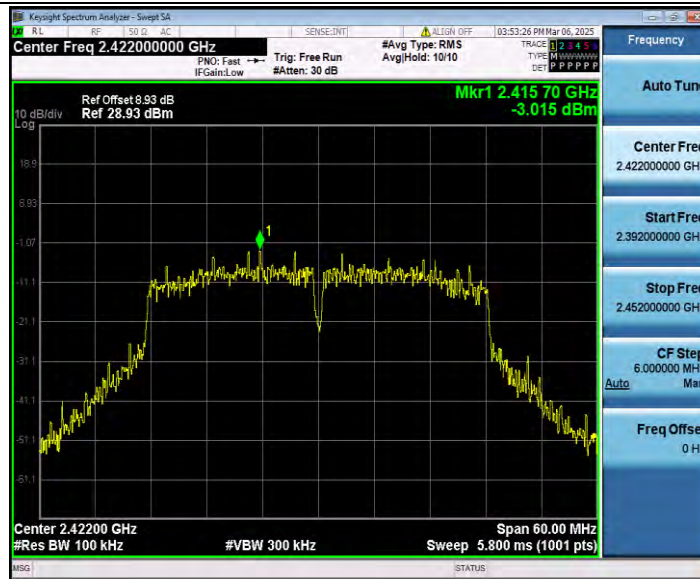
11N20SISO_Ant1_2462_30~1000



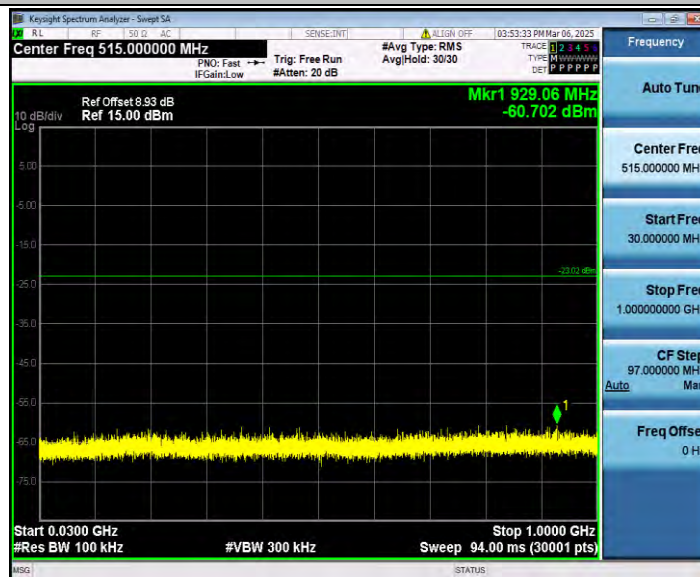
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



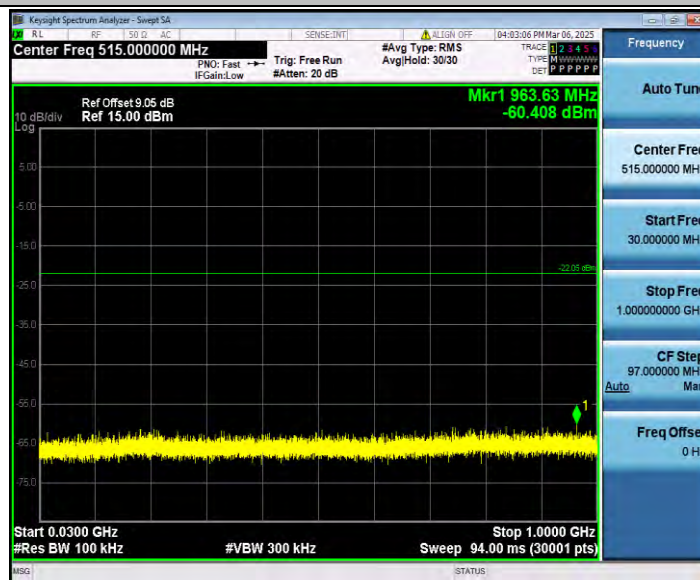
11N40SISO_Ant1_2422_1000~26500



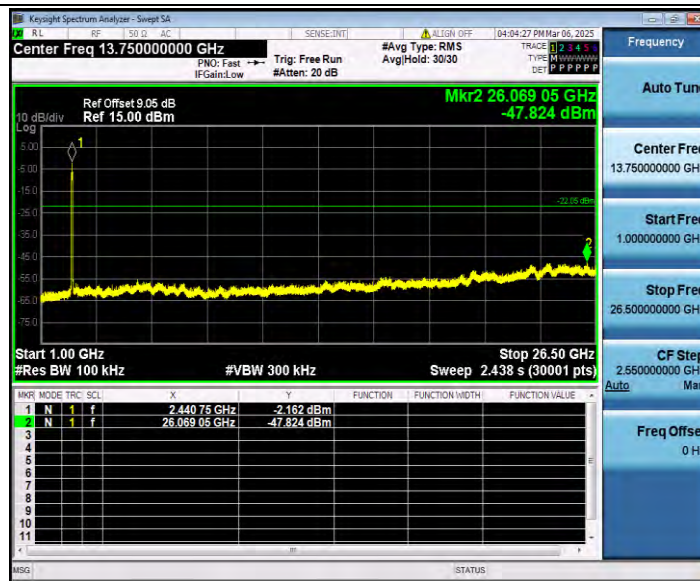
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



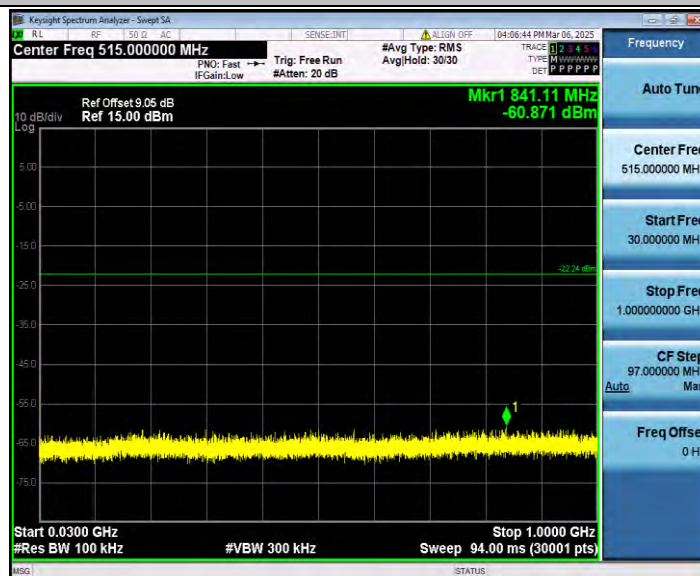
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





Appendix A.7: Emissions in Restricted Bands

Test Result

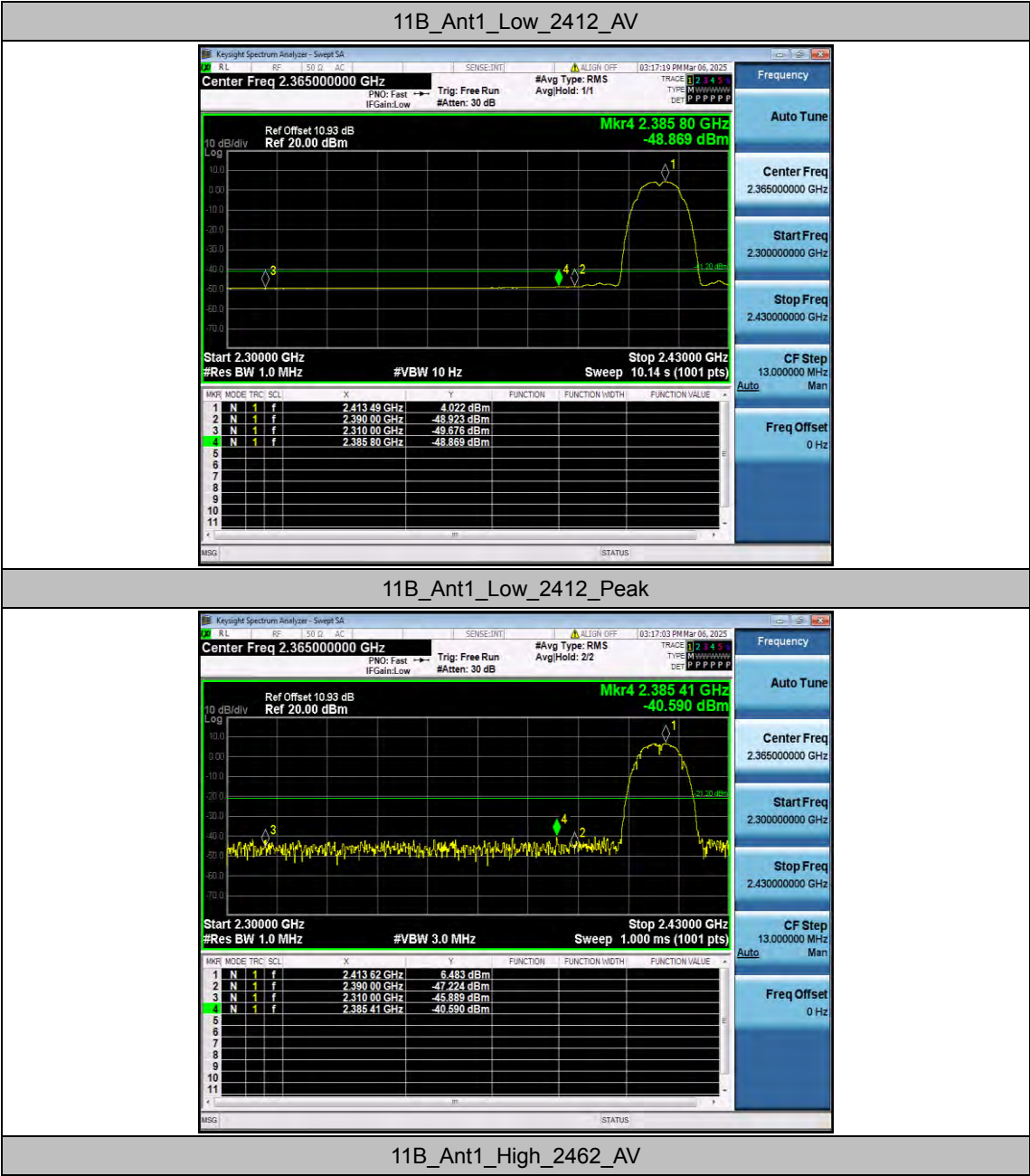
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.68	≤-41.20	45.52	≤54	PASS
				AV	2385.800	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2390.000	-48.92	≤-41.20	46.28	≤54	PASS
				Peak	2310.000	-45.89	≤-21.20	49.31	≤74	PASS
				Peak	2385.410	-40.59	≤-21.20	54.61	≤74	PASS
				Peak	2390.000	-47.22	≤-21.20	47.98	≤74	PASS
		High	2462	AV	2483.500	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2484.550	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2500.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2483.500	-46.3	≤-21.20	48.90	≤74	PASS
				Peak	2488.730	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2500.000	-44.91	≤-21.20	50.29	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.66	≤-41.20	45.54	≤54	PASS
				AV	2389.960	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2390.000	-48.97	≤-41.20	46.23	≤54	PASS
				Peak	2310.000	-49.06	≤-21.20	46.14	≤74	PASS
				Peak	2342.900	-41.39	≤-21.20	53.81	≤74	PASS
				Peak	2390.000	-43.99	≤-21.20	51.21	≤74	PASS
		High	2462	AV	2483.500	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2498.630	-48.78	≤-41.20	46.42	≤54	PASS
				AV	2500.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2483.500	-46.83	≤-21.20	48.37	≤74	PASS
				Peak	2487.960	-41.62	≤-21.20	53.58	≤74	PASS
				Peak	2500.000	-45.01	≤-21.20	50.19	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.63	≤-41.20	45.57	≤54	PASS
				AV	2389.960	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-46.55	≤-21.20	48.65	≤74	PASS
				Peak	2386.840	-40.72	≤-21.20	54.48	≤74	PASS
				Peak	2390.000	-45.61	≤-21.20	49.59	≤74	PASS
		High	2462	AV	2483.500	-48.84	≤-41.20	46.36	≤54	PASS
				AV	2499.950	-48.75	≤-41.20	46.45	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-40.94	≤-21.20	54.26	≤74	PASS
				Peak	2493.790	-41.48	≤-21.20	53.72	≤74	PASS
				Peak	2500.000	-42.35	≤-21.20	52.85	≤74	PASS

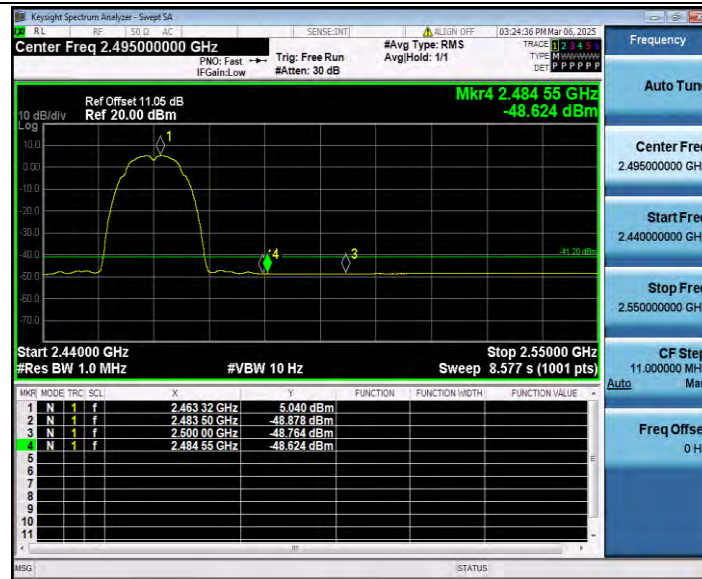
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.62	≤ -41.20	45.58	≤ 54	PASS
				AV	2389.700	-47.04	≤ -41.20	48.16	≤ 54	PASS
				AV	2390.000	-47.23	≤ -41.20	47.97	≤ 54	PASS
				Peak	2310.000	-45.14	≤ -21.20	50.06	≤ 74	PASS
				Peak	2383.720	-39.5	≤ -21.20	55.70	≤ 74	PASS
				Peak	2390.000	-44.38	≤ -21.20	50.82	≤ 74	PASS
		High	2452	AV	2483.500	-45.65	≤ -41.20	49.55	≤ 54	PASS
				AV	2483.560	-45.64	≤ -41.20	49.56	≤ 54	PASS
				AV	2500.000	-48.23	≤ -41.20	46.97	≤ 54	PASS
				Peak	2483.500	-38.39	≤ -21.20	56.81	≤ 74	PASS
				Peak	2484.220	-38.66	≤ -21.20	56.54	≤ 74	PASS
				Peak	2500.000	-41.97	≤ -21.20	53.23	≤ 74	PASS

Note:

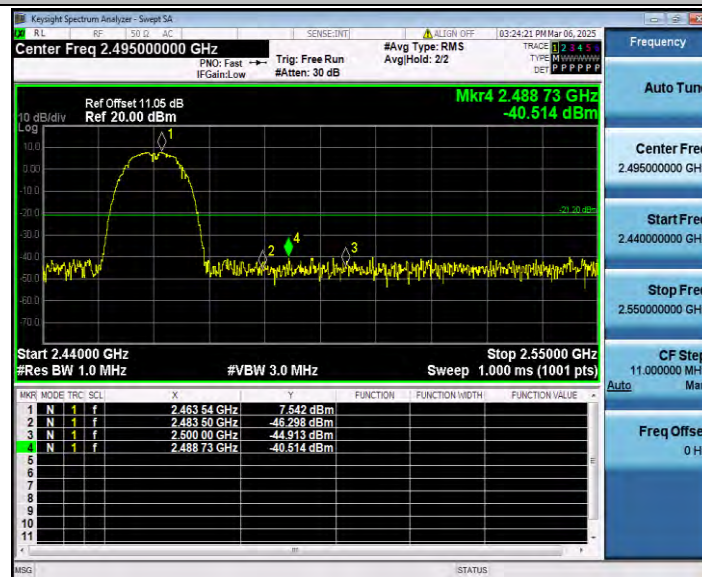
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

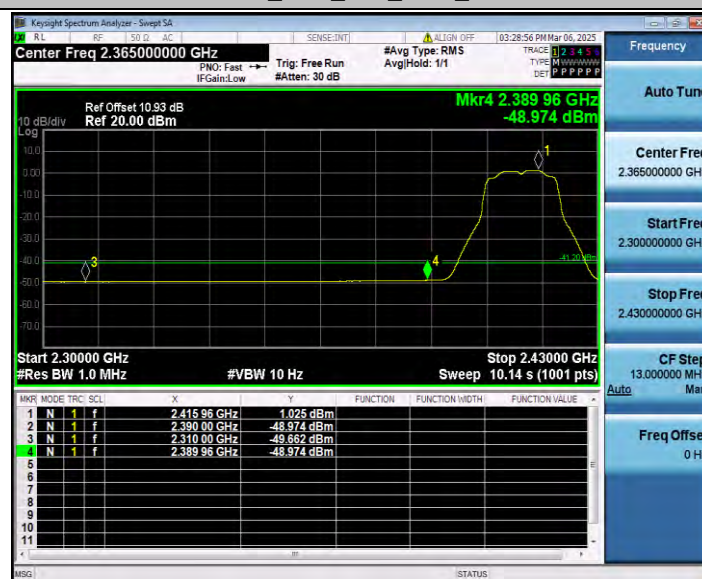




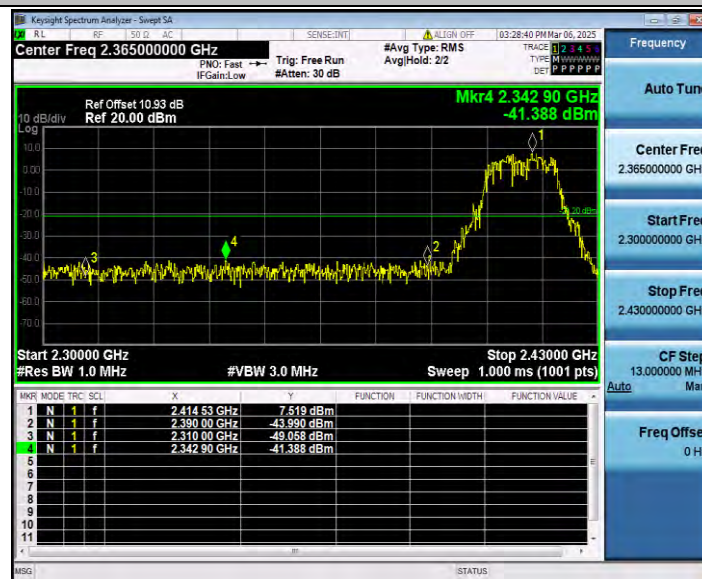
11B_Ant1_High_2462_Peak



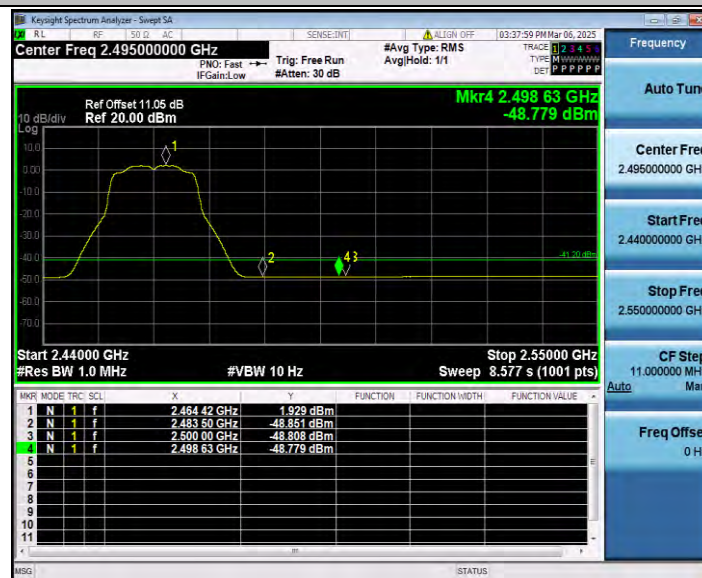
11G_Ant1_Low_2412_AV



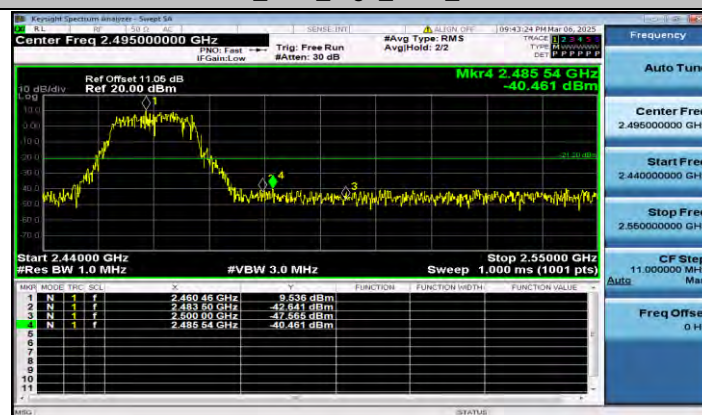
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



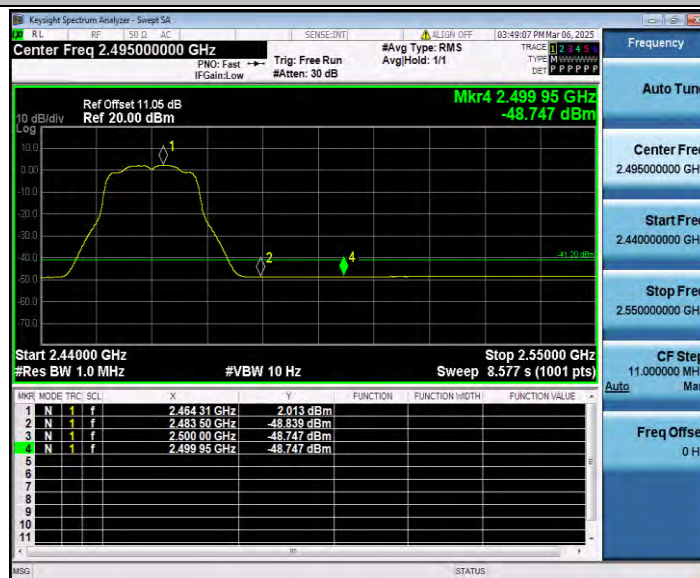
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



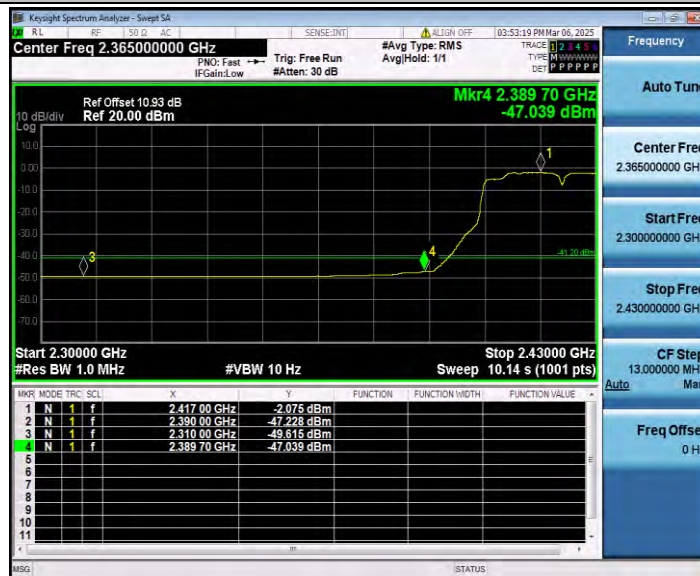
11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

