

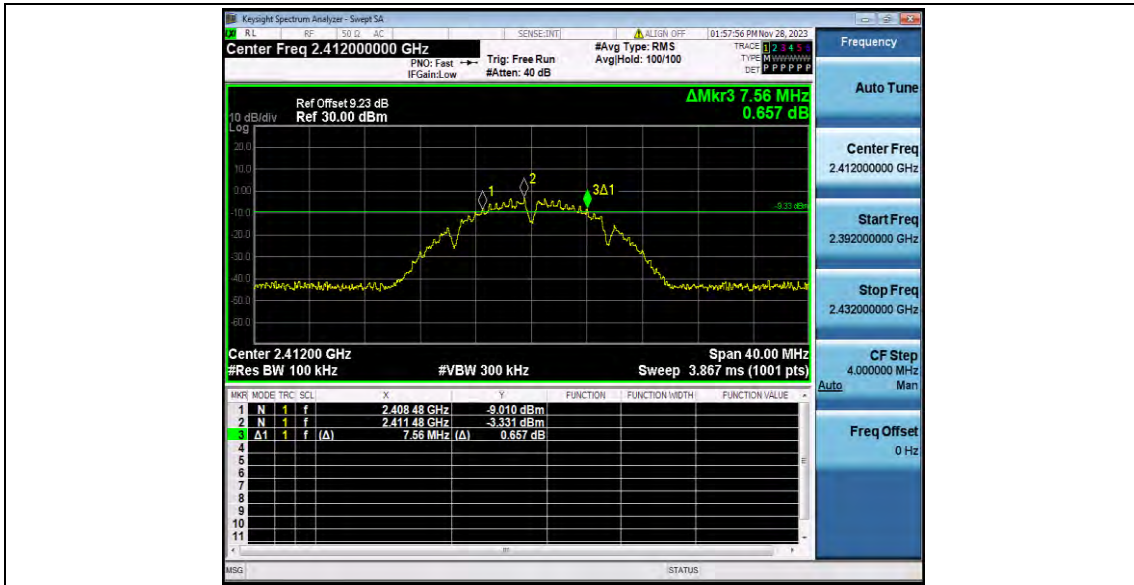
Case No. : <u>GTS20231117002-1-3</u>
Ambient Condition: <u>25</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.11.28</u> Test Engineer: <u>Evan ouyang</u>

Appendix C.1: DTS Bandwidth

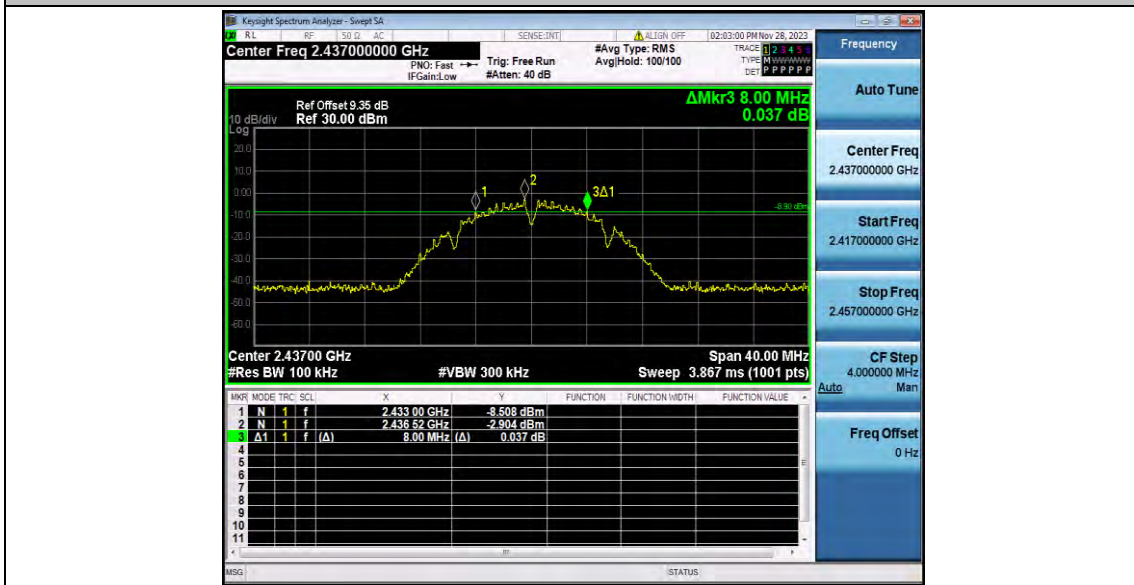
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.560	2408.480	2416.040	0.5	PASS
		2437	8.000	2433.000	2441.000	0.5	PASS
		2462	8.040	2457.520	2465.560	0.5	PASS
11G	Ant1	2412	16.080	2404.120	2420.200	0.5	PASS
		2437	16.040	2429.120	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.240	2420.840	0.5	PASS
		2437	17.240	2428.560	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	33.120	2407.040	2440.160	0.5	PASS
		2437	31.040	2421.640	2452.680	0.5	PASS
		2452	35.360	2433.840	2469.200	0.5	PASS

Test Graphs



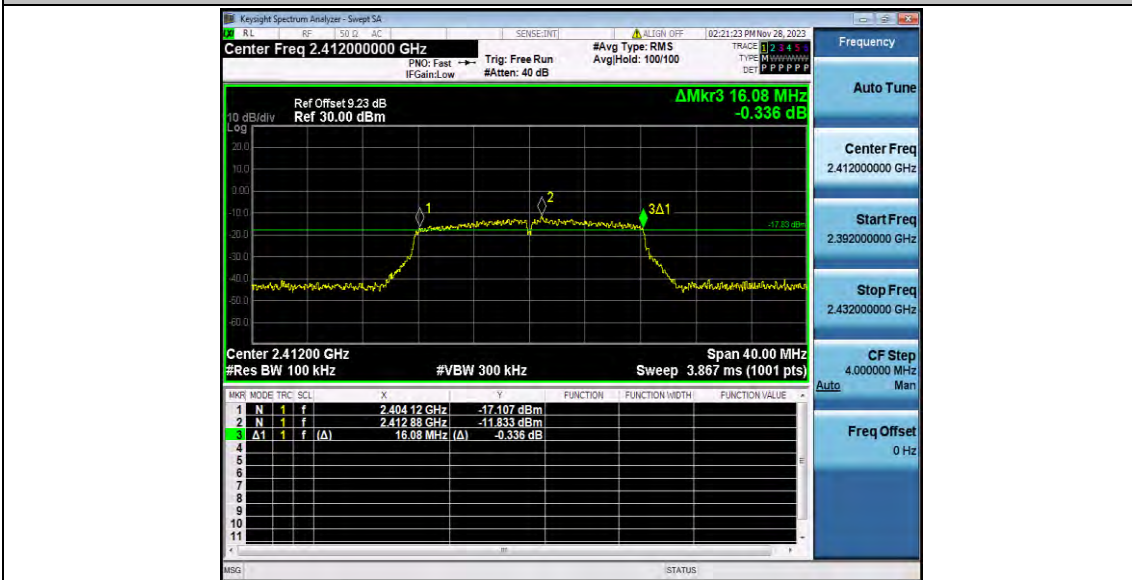
11B_Ant1_2412



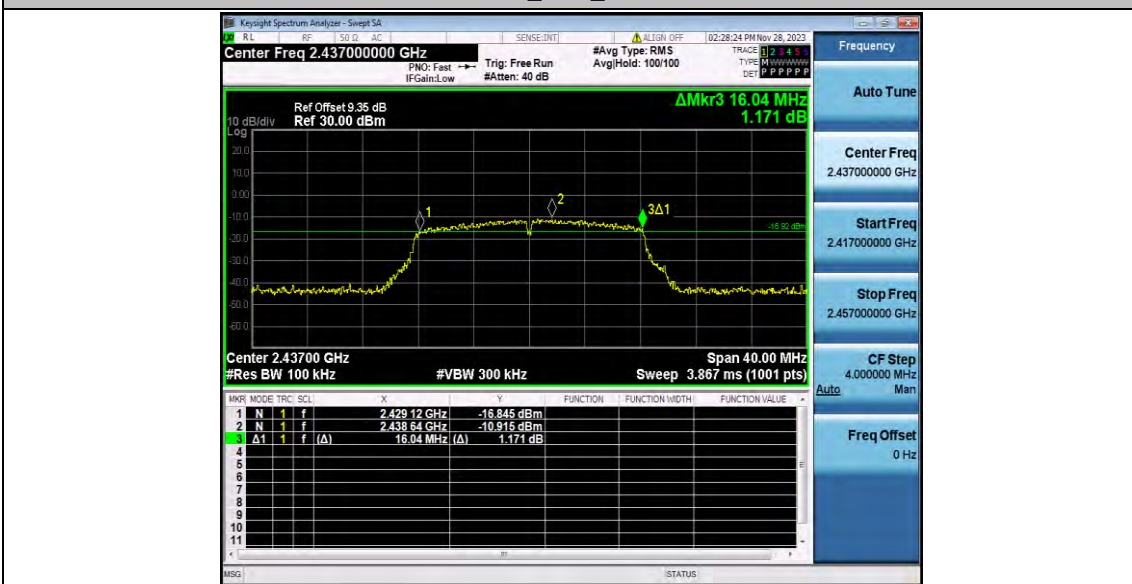
11B_Ant1_2437



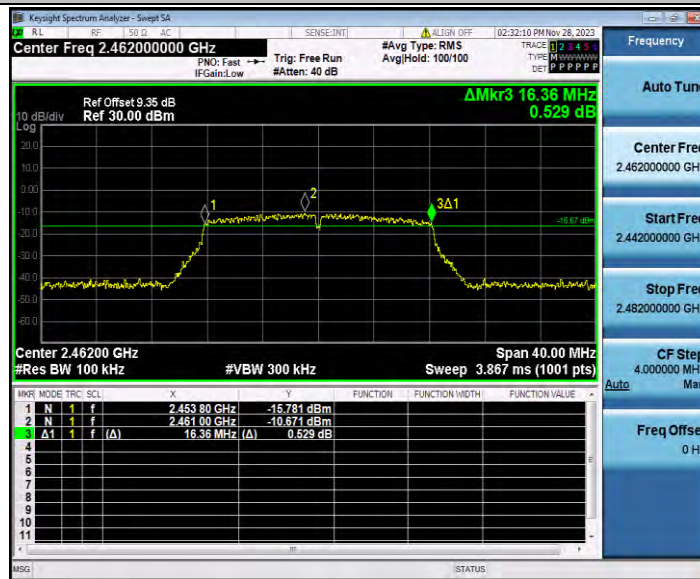
11B_Ant1_2462



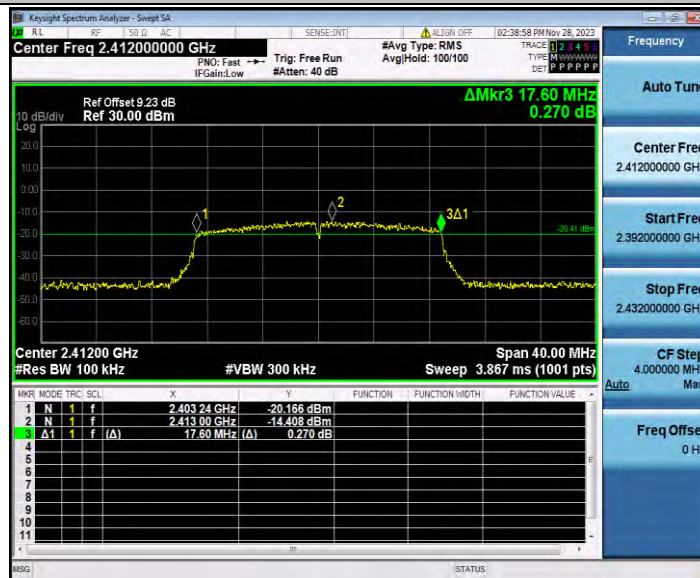
11G_Ant1_2412



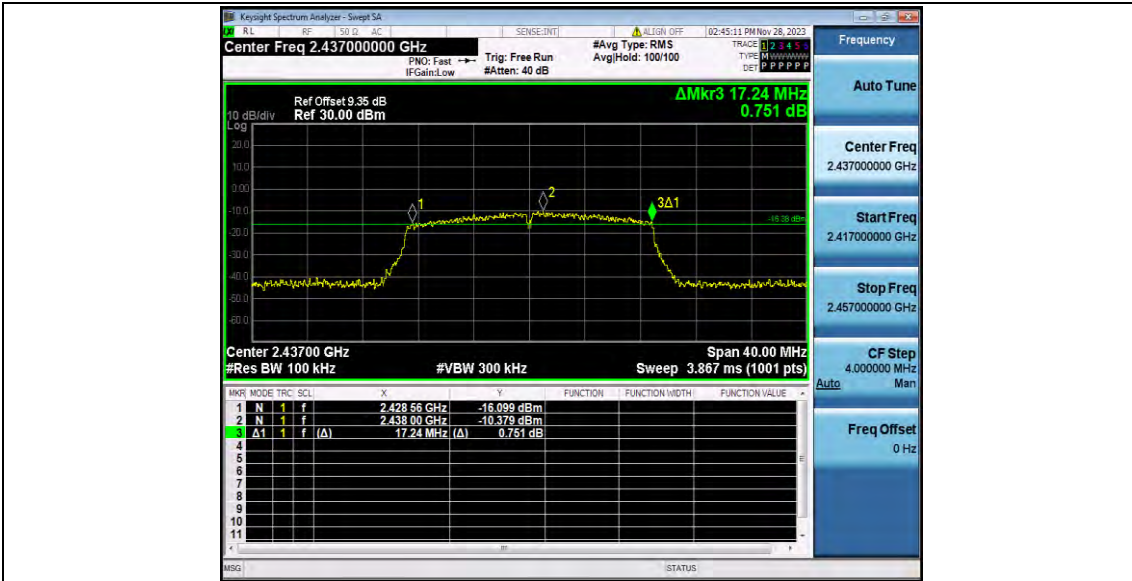
11G_Ant1_2437



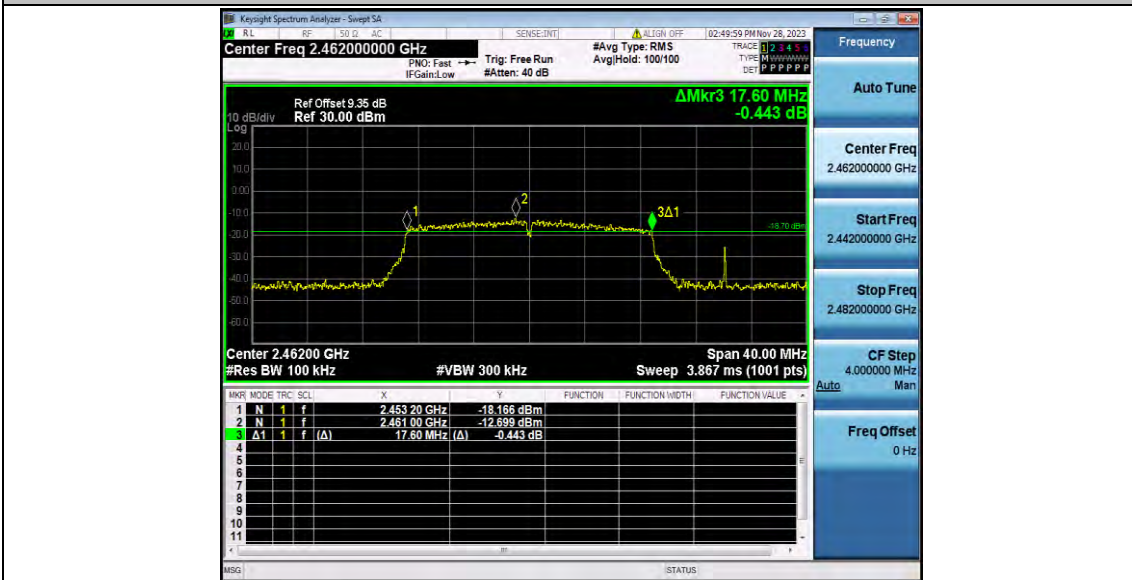
11G_Ant1_2462



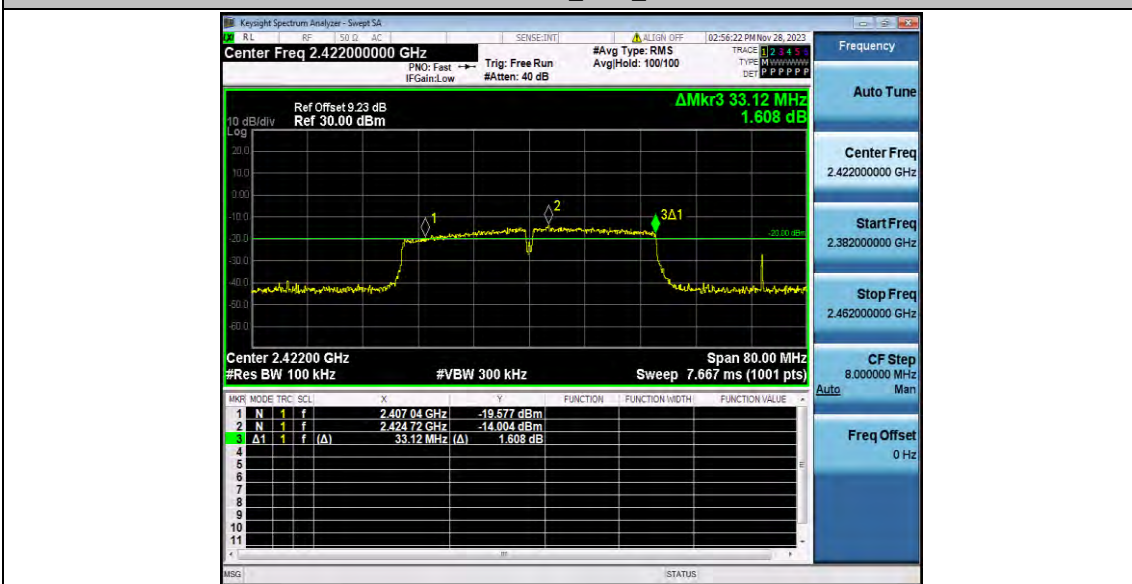
11N20SISO_Ant1_2412



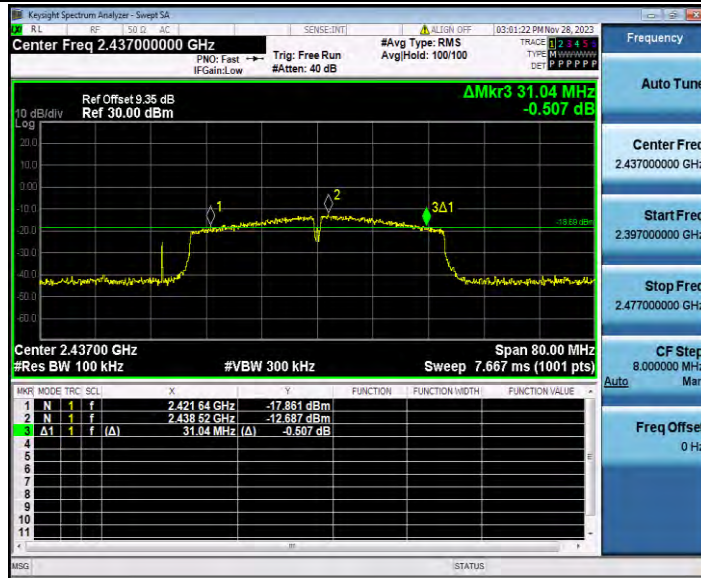
11N20SISO_Ant1_2437



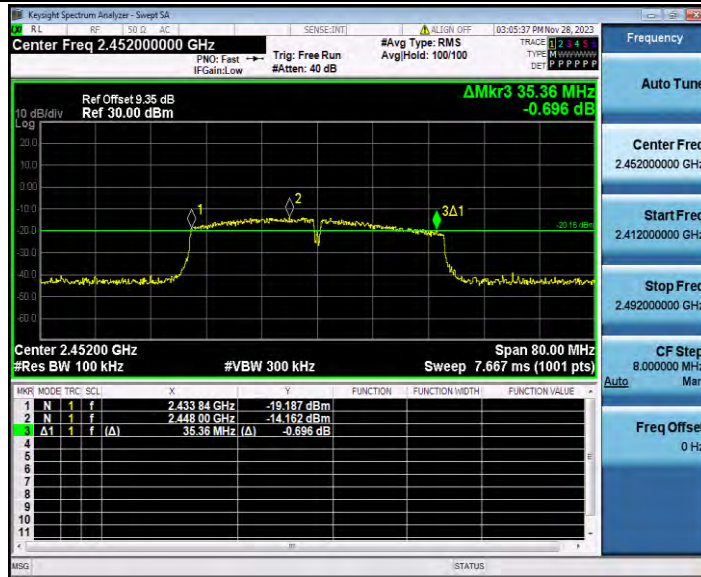
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



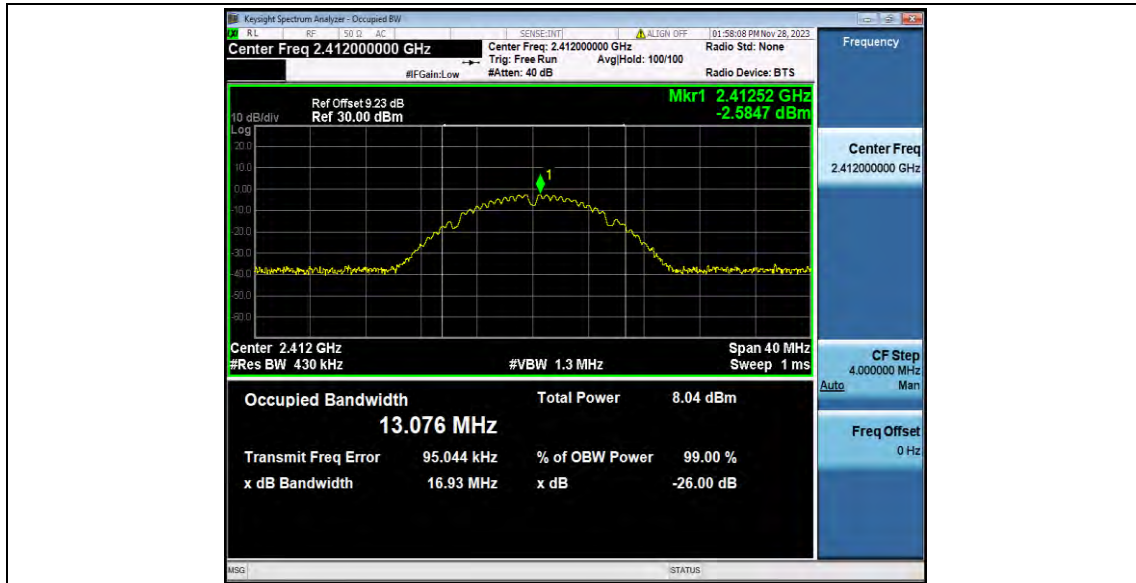
11N40SISO_Ant1_2452

Appendix C.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.076	2405.557	2418.633	---	---
		2437	12.931	2430.639	2443.570	---	---
		2462	13.114	2455.402	2468.516	---	---
11G	Ant1	2412	16.939	2403.612	2420.551	---	---
		2437	16.809	2428.696	2445.505	---	---
		2462	16.936	2453.465	2470.401	---	---
11N20SISO	Ant1	2412	17.965	2403.103	2421.068	---	---
		2437	17.770	2428.182	2445.952	---	---
		2462	18.000	2453.009	2471.009	---	---
11N40SISO	Ant1	2422	36.414	2404.004	2440.418	---	---
		2437	35.914	2419.123	2455.037	---	---
		2452	36.104	2433.845	2469.949	---	---

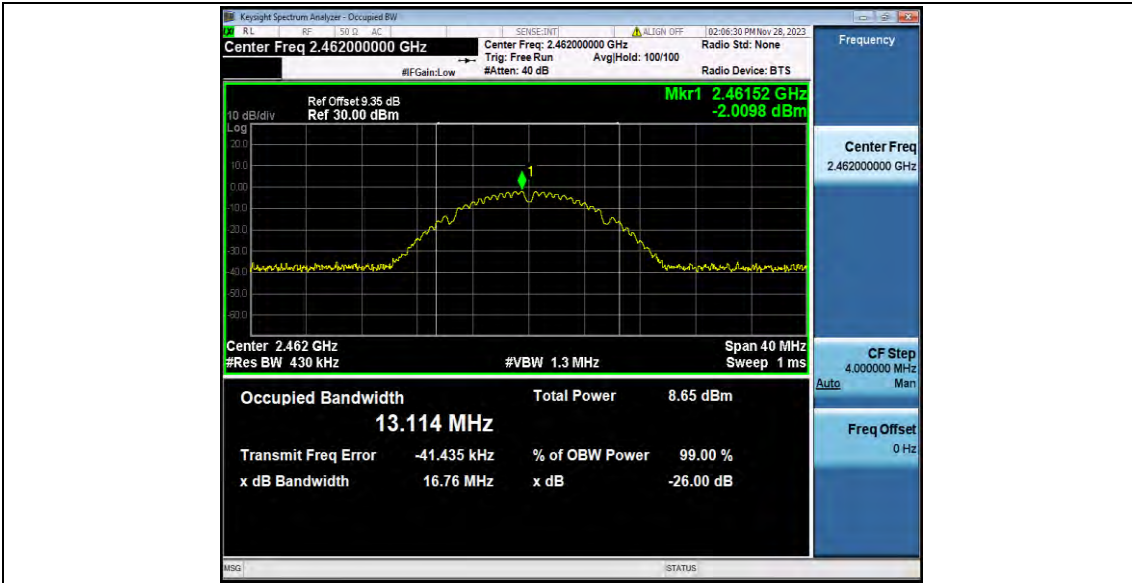
Test Graphs



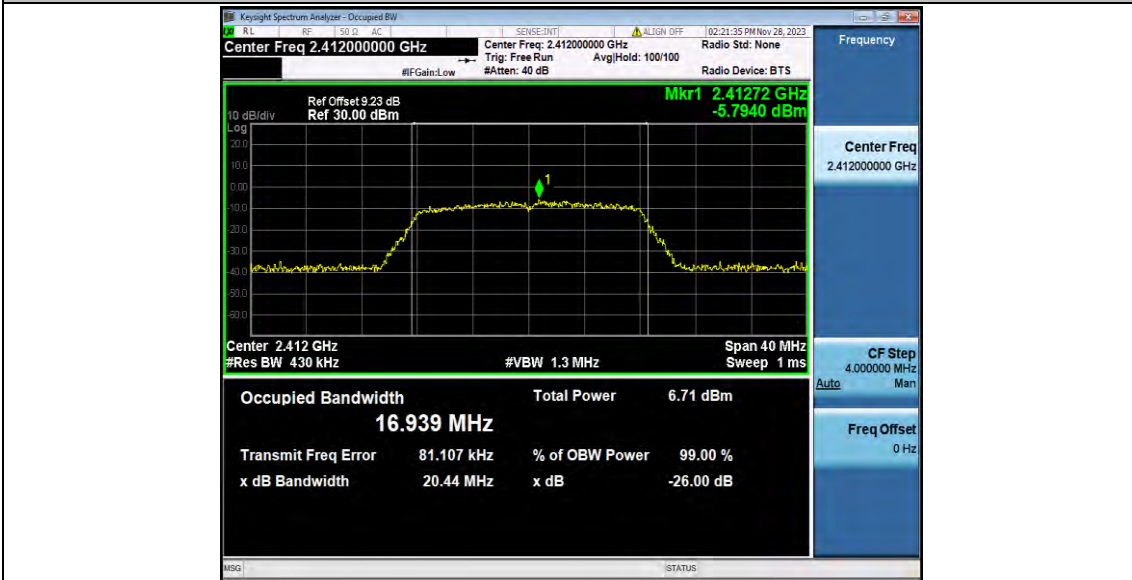
11B_Ant1_2412



11B_Ant1_2437



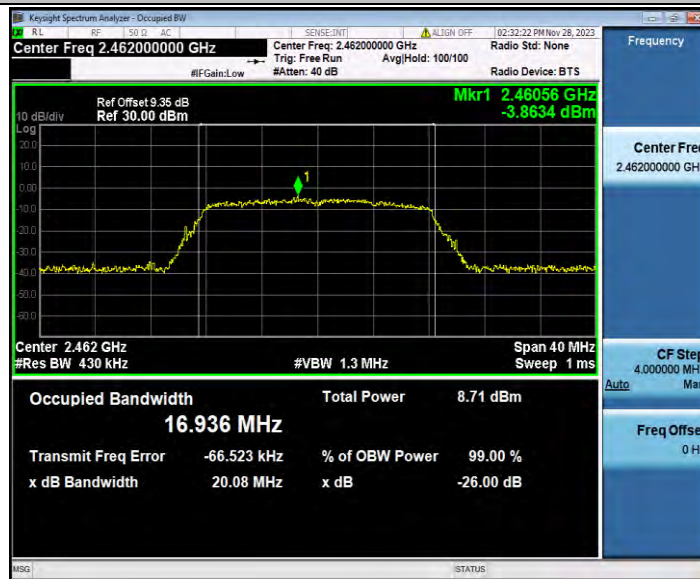
11B_Ant1_2462



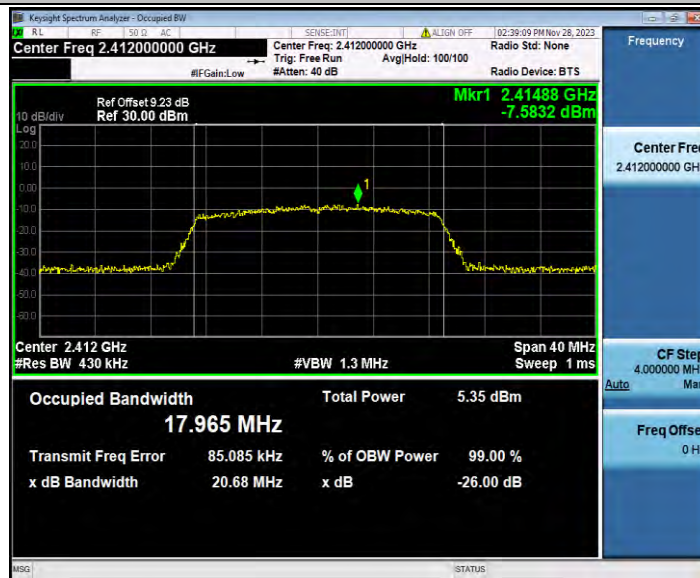
11G_Ant1_2412



11G_Ant1_2437



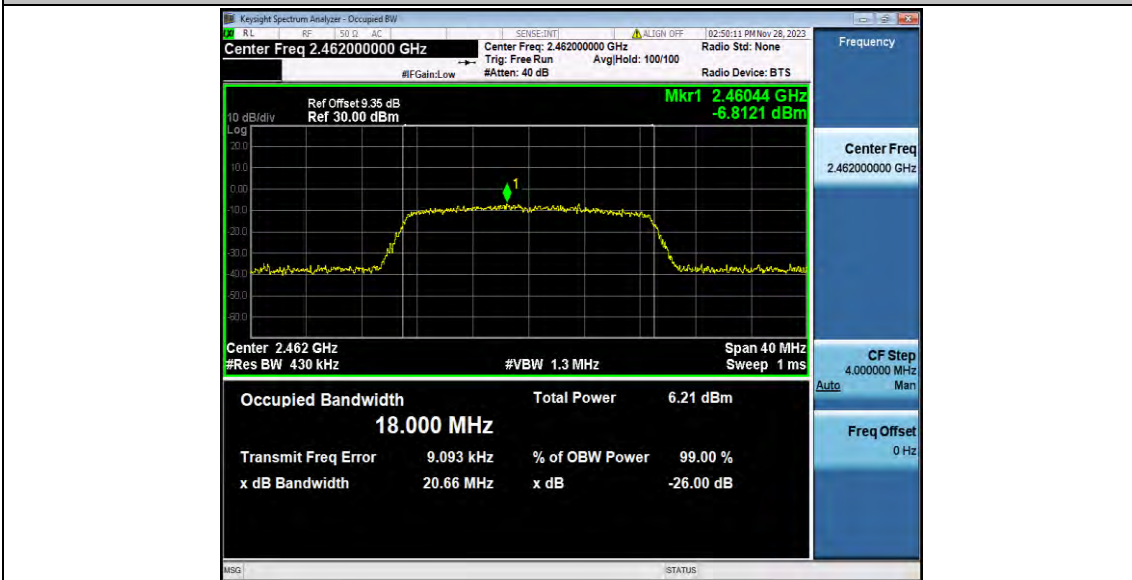
11G_Ant1_2462



11N20SISO_Ant1_2412



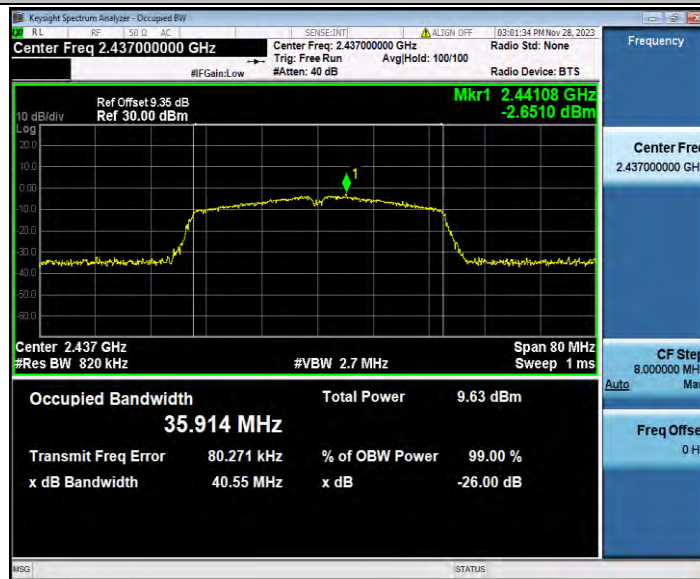
11N20SISO_Ant1_2437



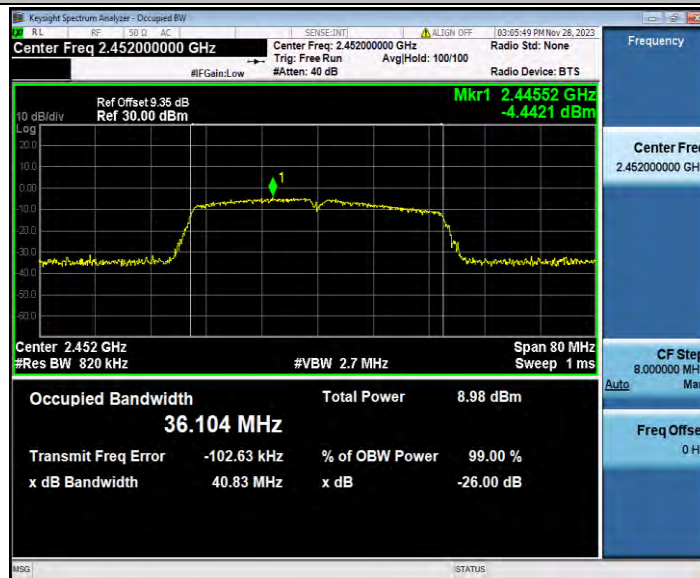
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix C.3: Maximum conducted output power

Test Result Peak

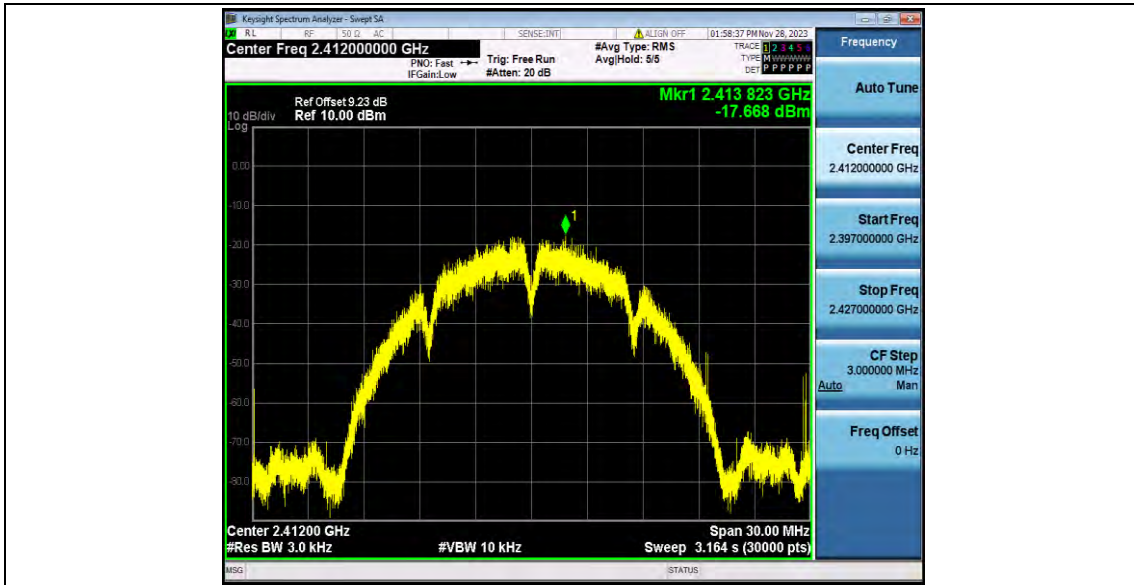
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	8.09	≤30.00	PASS
		2437	8.23	≤30.00	PASS
		2462	8.71	≤30.00	PASS
11G	Ant1	2412	7.96	≤30.00	PASS
		2437	8.42	≤30.00	PASS
		2462	8.97	≤30.00	PASS
11N20SISO	Ant1	2412	8.50	≤30.00	PASS
		2437	8.05	≤30.00	PASS
		2462	7.40	≤30.00	PASS
11N40SISO	Ant1	2422	8.04	≤30.00	PASS
		2437	8.89	≤30.00	PASS
		2452	8.40	≤30.00	PASS

Appendix C.4: Maximum power spectral density

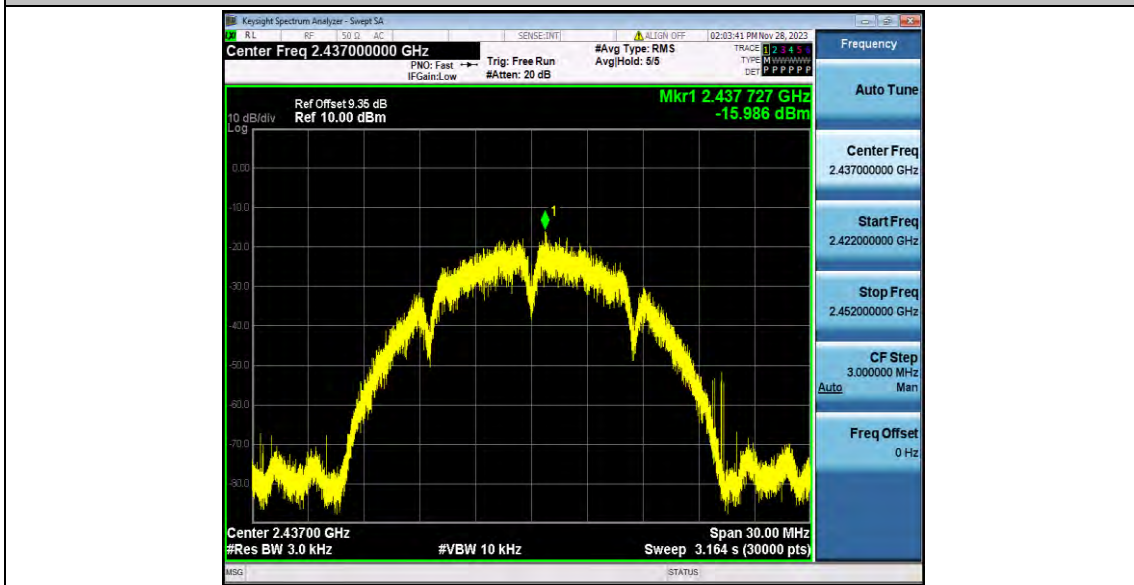
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.67	≤8.00	PASS
		2437	-15.99	≤8.00	PASS
		2462	-17.07	≤8.00	PASS
11G	Ant1	2412	-24.03	≤8.00	PASS
		2437	-21.47	≤8.00	PASS
		2462	-22.28	≤8.00	PASS
11N20SISO	Ant1	2412	-24.62	≤8.00	PASS
		2437	-21.7	≤8.00	PASS
		2462	-24.41	≤8.00	PASS
11N40SISO	Ant1	2422	-25.95	≤8.00	PASS
		2437	-23.93	≤8.00	PASS
		2452	-23.55	≤8.00	PASS

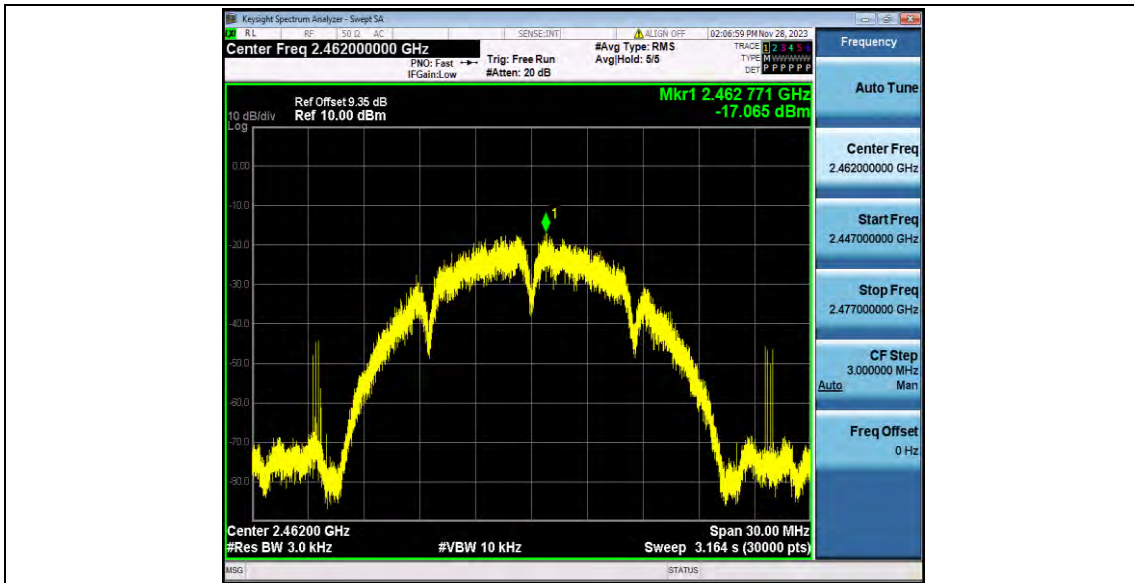
Test Graphs



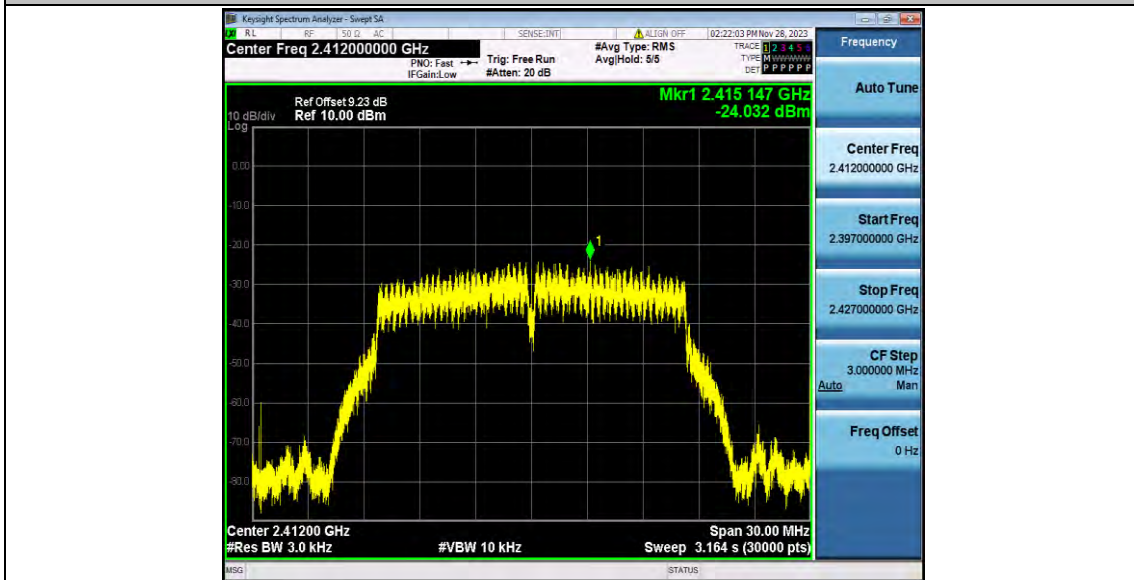
11B_Ant1_2412



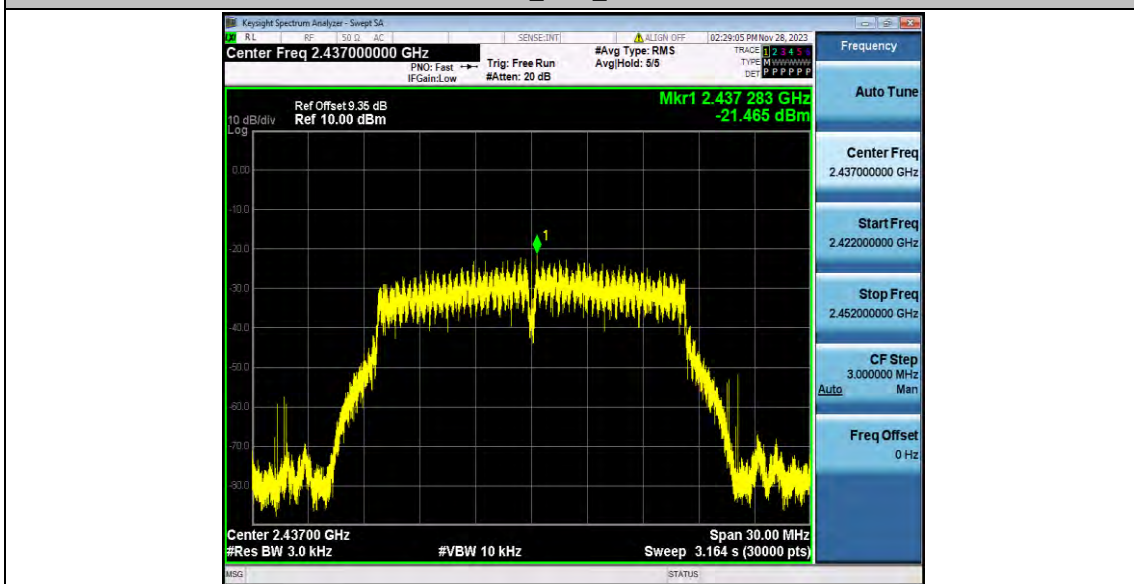
11B_Ant1_2437



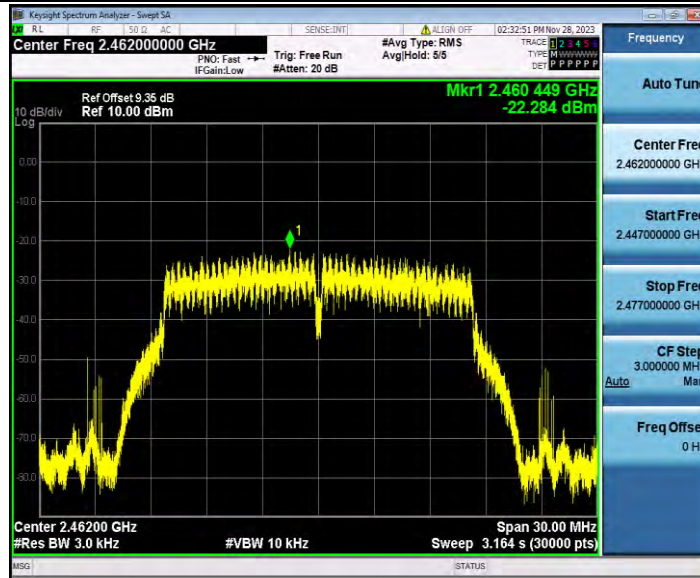
11B_Ant1_2462



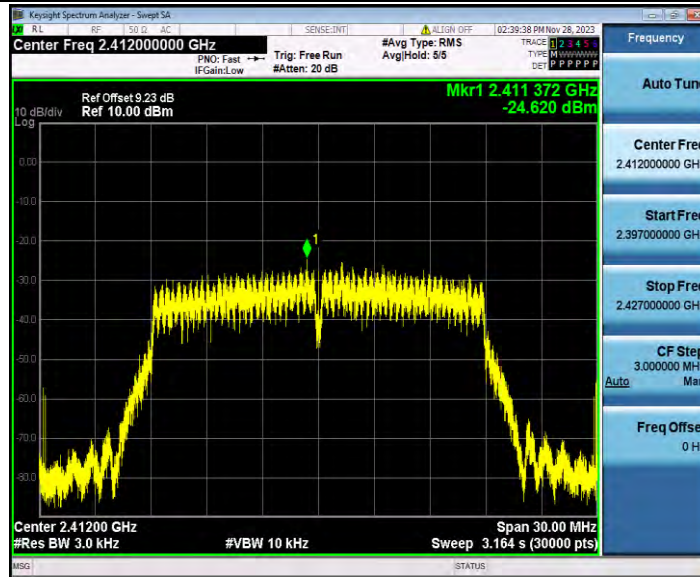
11G_Ant1_2412



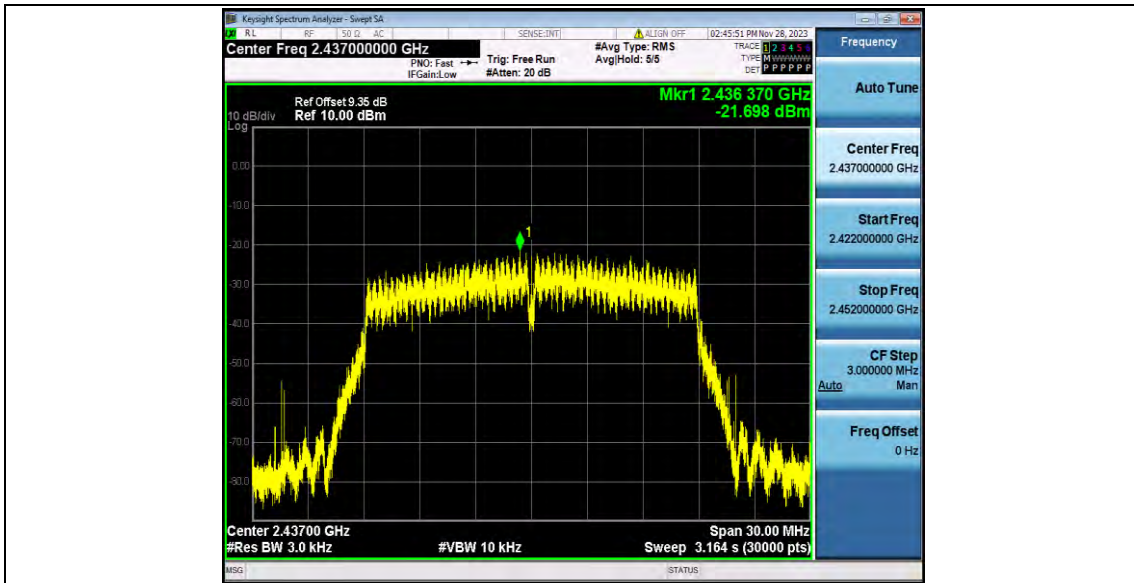
11G_Ant1_2437



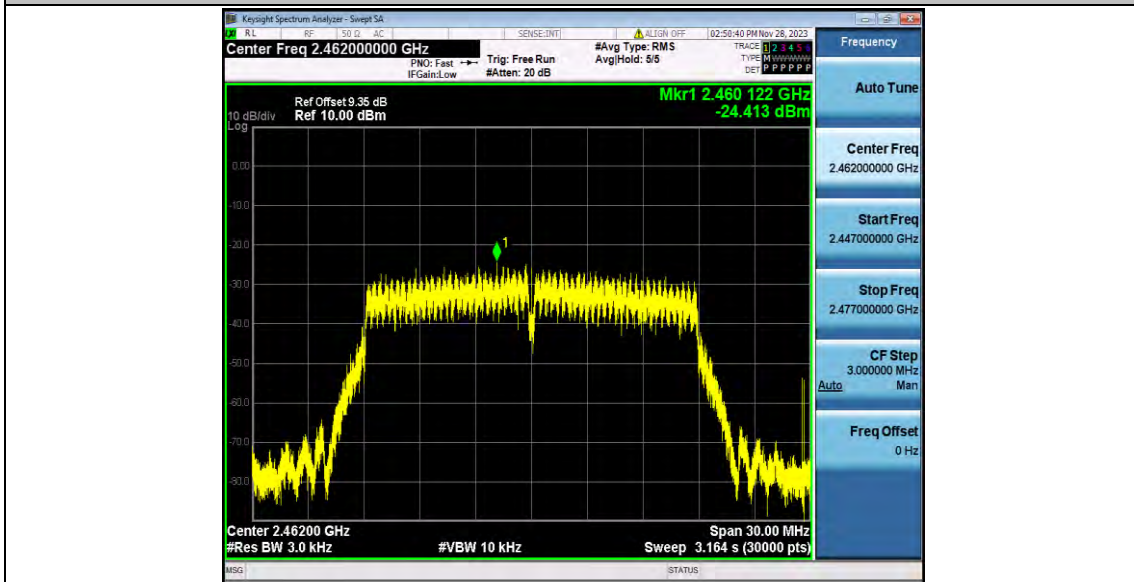
11G_Ant1_2462



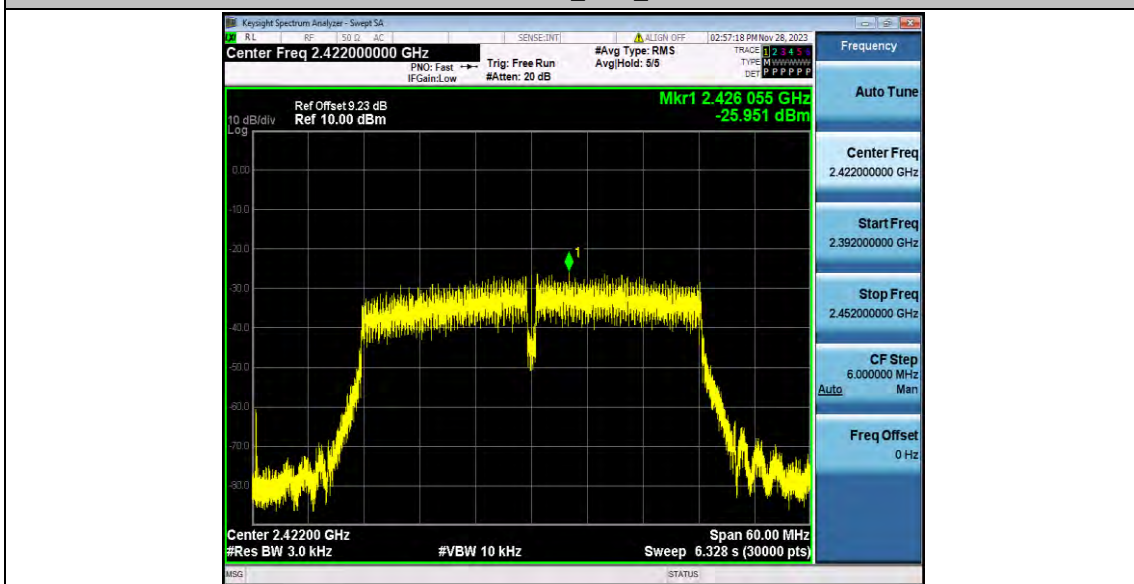
11N20SISO_Ant1_2412



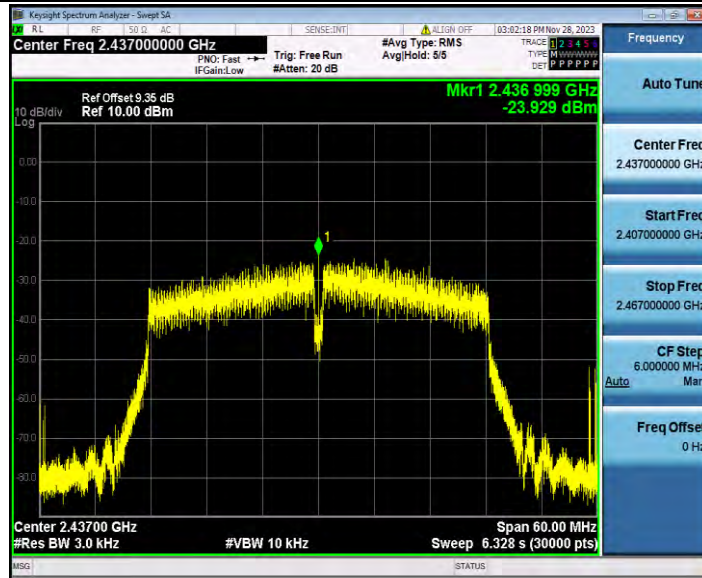
11N20SISO_Ant1_2437



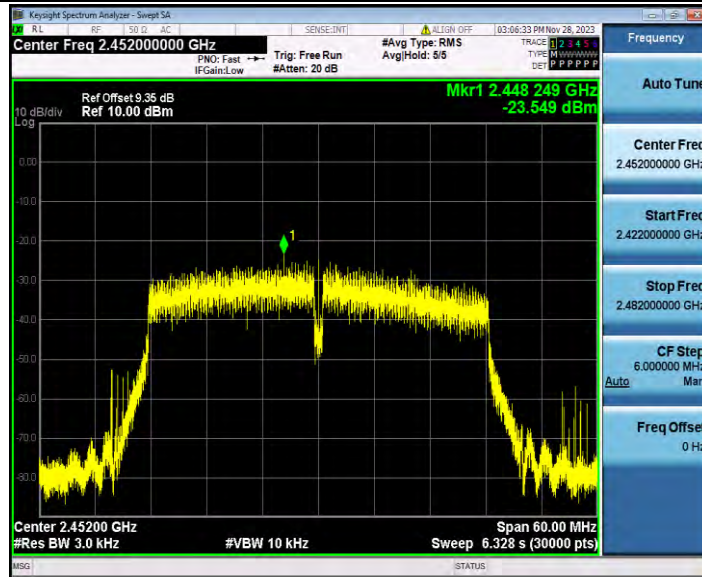
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



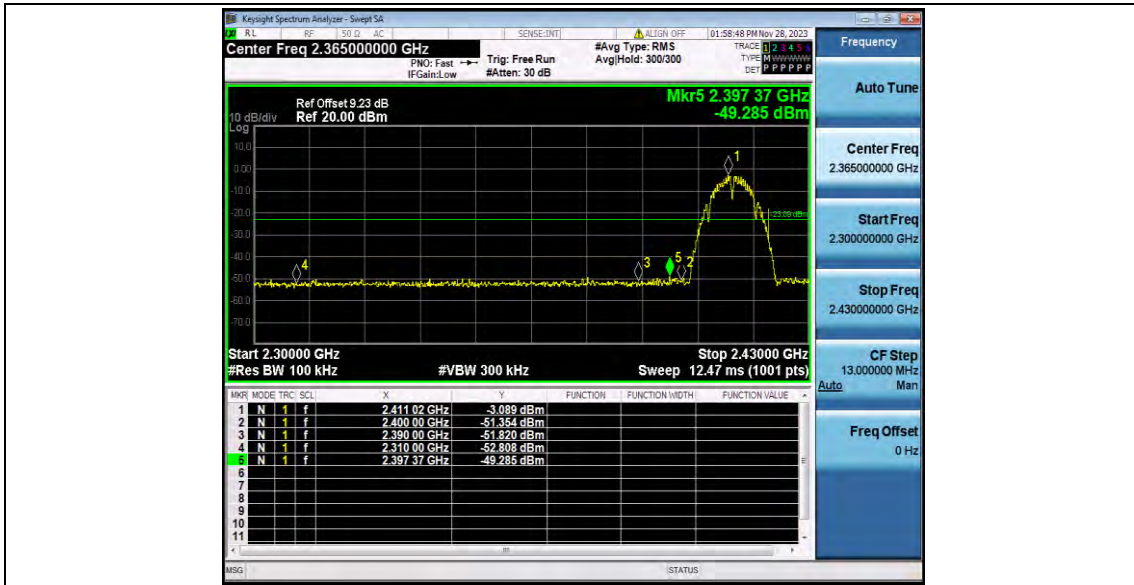
11N40SISO_Ant1_2452

Appendix C.5: Band edge measurements

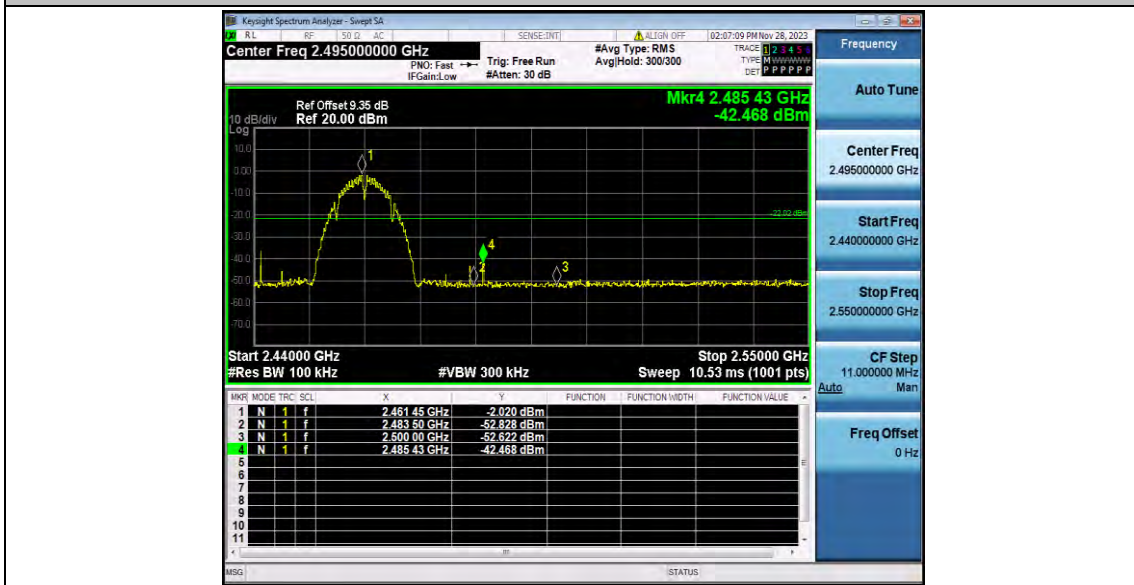
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-3.09	-49.29	≤ -23.09	PASS
		High	2462	-2.02	-42.47	≤ -22.02	PASS
11G	Ant1	Low	2412	-10.37	-49.76	≤ -30.37	PASS
		High	2462	-10.44	-49.29	≤ -30.44	PASS
11N20SISO	Ant1	Low	2412	-10.72	-47.1	≤ -30.72	PASS
		High	2462	-13.30	-49.44	≤ -33.3	PASS
11N40SISO	Ant1	Low	2422	-12.92	-48.85	≤ -32.92	PASS
		High	2452	-13.81	-48.73	≤ -33.81	PASS

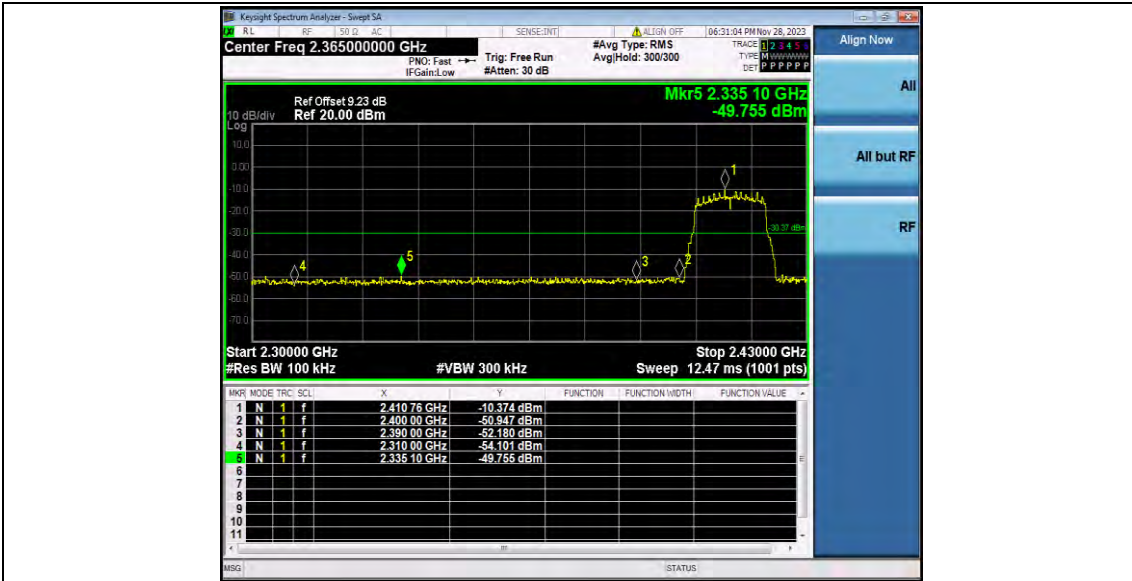
Test Graphs



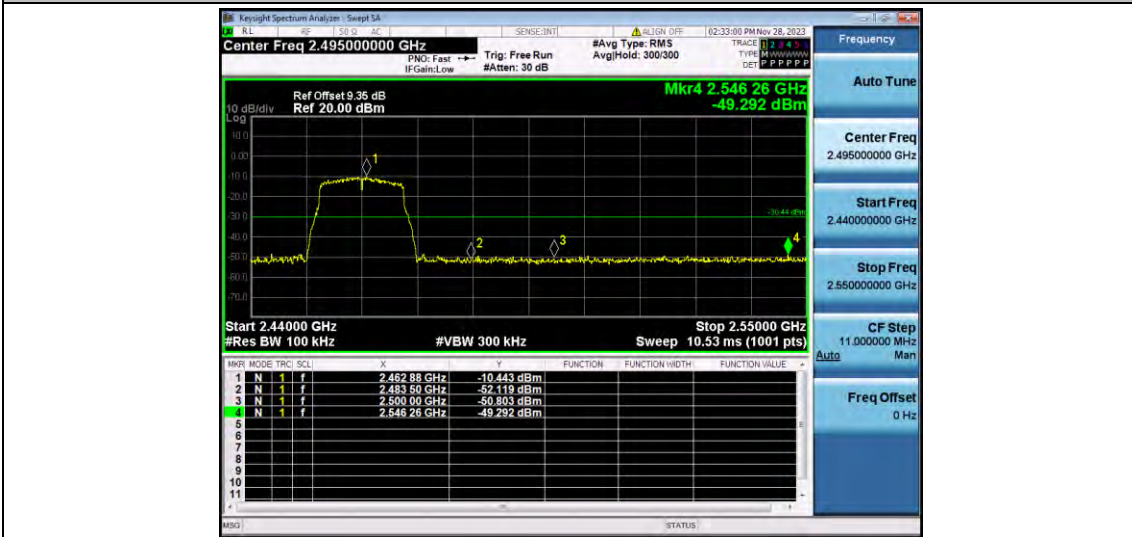
11B_Ant1_Low_2412



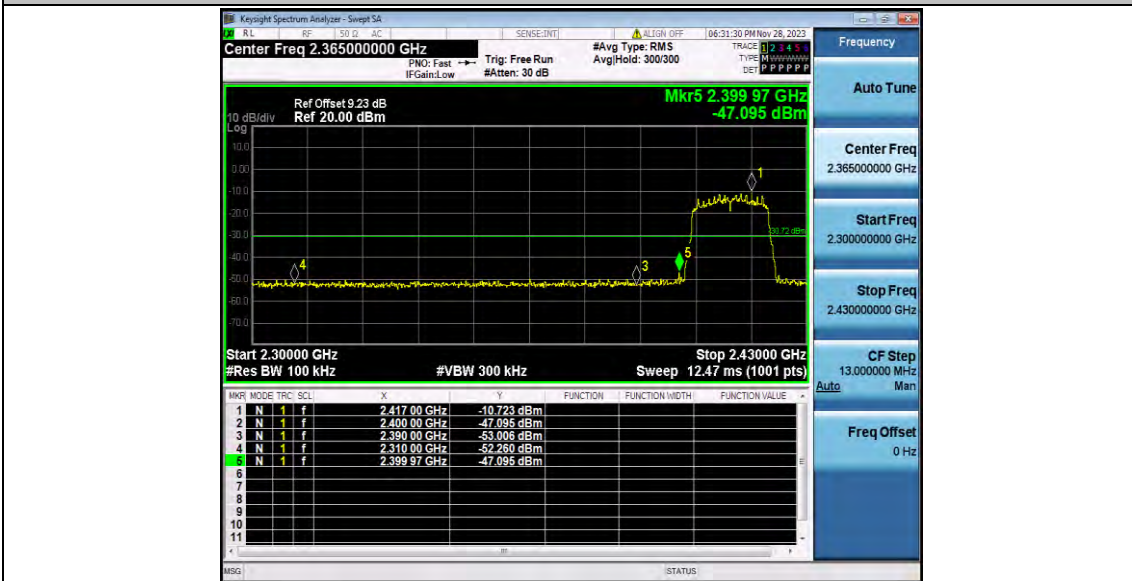
11B_Ant1_High_2462



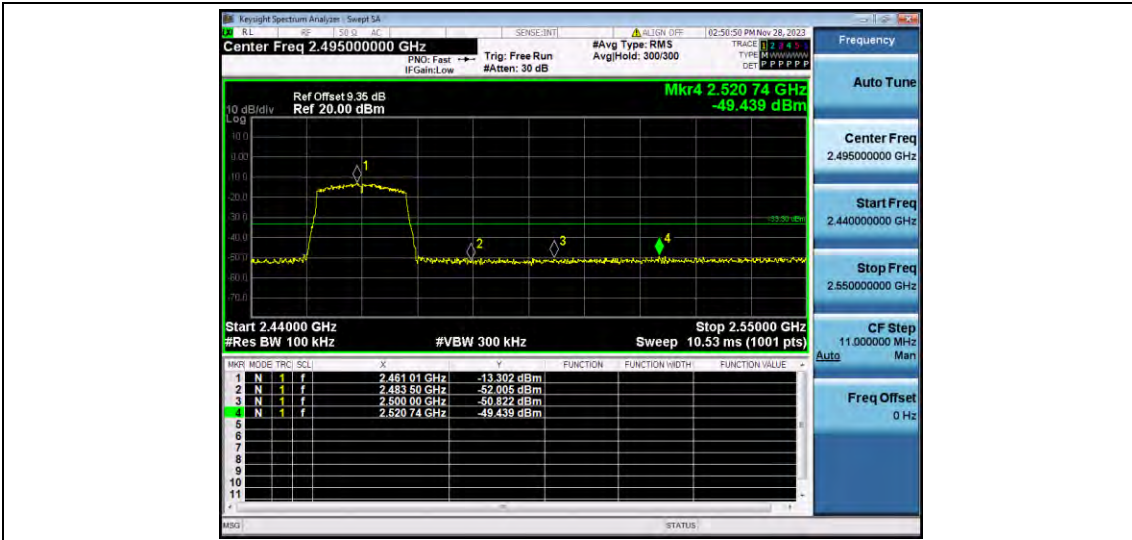
11G_Ant1_Low_2412



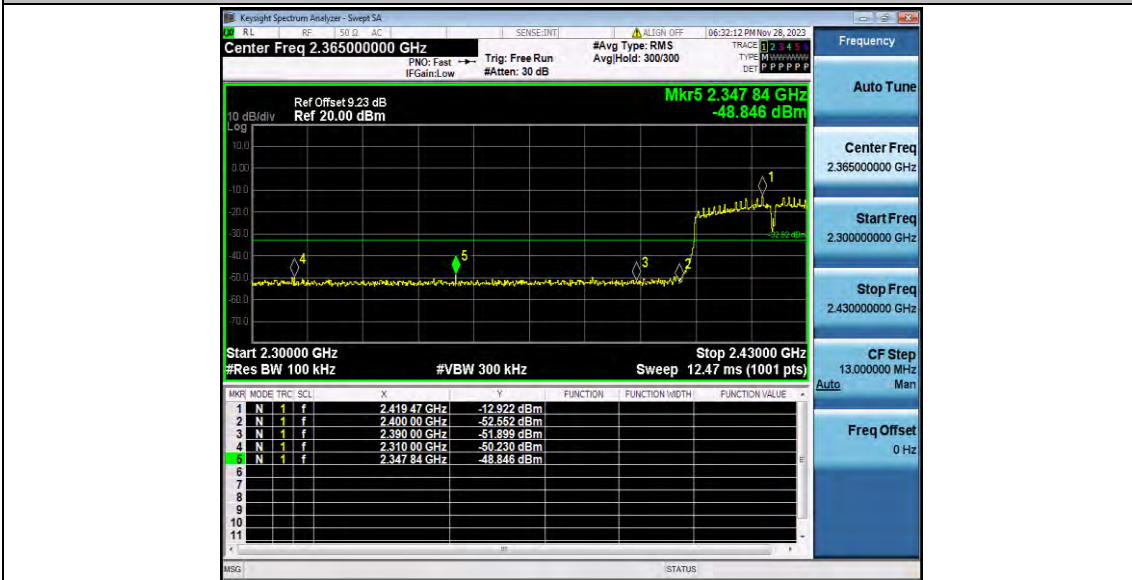
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

Appendix C.6: Conducted Spurious Emission

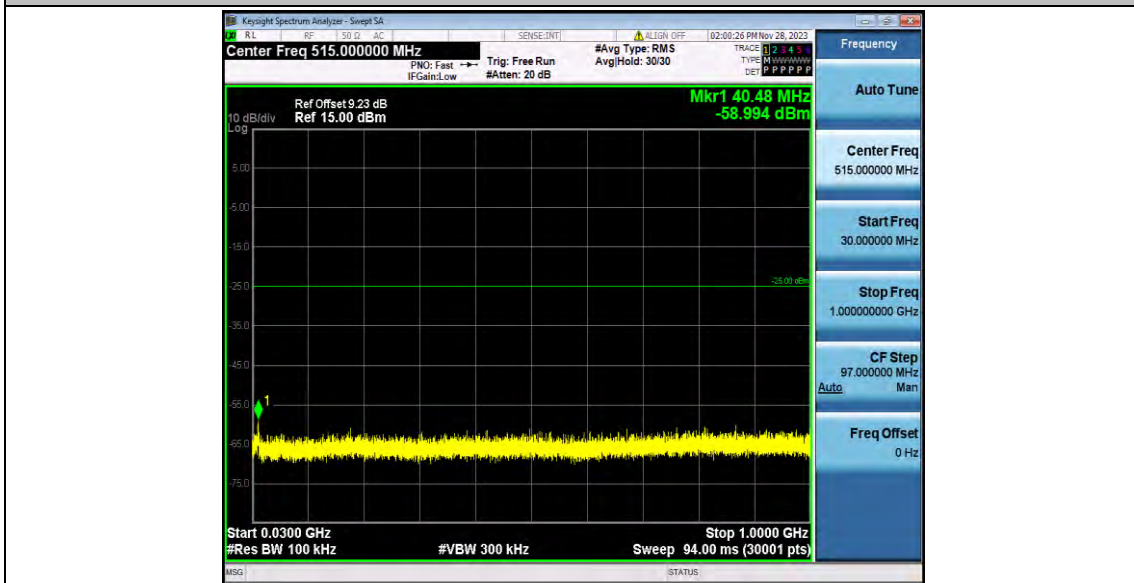
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	Reference	-5.00	-5.00	---	PASS	
			30~1000	-5.00	-58.99	≤-25	PASS	
			1000~26500	-5.00	-47.7	≤-25	PASS	
		2437	Ant1	Reference	-3.73	-3.73	---	PASS
				30~1000	-3.73	-59.61	≤-23.73	PASS
				1000~26500	-3.73	-47.5	≤-23.73	PASS
		2462	Ant1	Reference	-4.11	-4.11	---	PASS
				30~1000	-4.11	-59.07	≤-24.11	PASS
				1000~26500	-4.11	-47.36	≤-24.11	PASS
11G	Ant1	2412	Reference	-13.09	-13.09	---	PASS	
			30~1000	-13.09	-59.36	≤-33.09	PASS	
			1000~26500	-13.09	-46.58	≤-33.09	PASS	
		2437	Ant1	Reference	-11.50	-11.50	---	PASS
				30~1000	-11.50	-43.33	≤-31.5	PASS
				1000~26500	-11.50	-47.48	≤-31.5	PASS
		2462	Ant1	Reference	-11.00	-11.00	---	PASS
				30~1000	-11.00	-59.96	≤-31	PASS
				1000~26500	-11.00	-46.83	≤-31	PASS
11N20SISO	Ant1	2412	Reference	-14.81	-14.81	---	PASS	
			30~1000	-14.81	-59.62	≤-34.81	PASS	
			1000~26500	-14.81	-46.02	≤-34.81	PASS	
		2437	Ant1	Reference	-11.50	-11.50	---	PASS
				30~1000	-11.50	-59.85	≤-31.5	PASS
				1000~26500	-11.50	-47.79	≤-31.5	PASS
		2462	Ant1	Reference	-13.34	-13.34	---	PASS
				30~1000	-13.34	-60.01	≤-33.34	PASS
				1000~26500	-13.34	-47.36	≤-33.34	PASS
11N40SISO	Ant1	2422	Reference	-15.19	-15.19	---	PASS	
			30~1000	-15.19	-59.6	≤-35.19	PASS	
			1000~26500	-15.19	-47.71	≤-35.19	PASS	
		2437	Ant1	Reference	-13.15	-13.15	---	PASS
				30~1000	-13.15	-59.74	≤-33.15	PASS
				1000~26500	-13.15	-46.77	≤-33.15	PASS
		2452	Ant1	Reference	-13.99	-13.99	---	PASS
				30~1000	-13.99	-60.15	≤-33.99	PASS
				1000~26500	-13.99	-47.89	≤-33.99	PASS

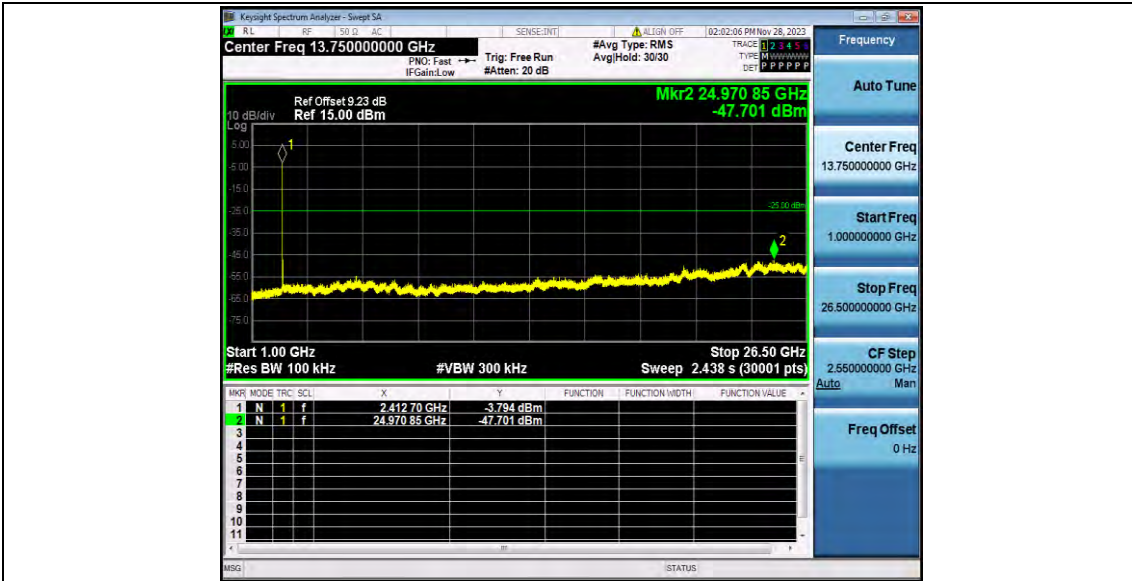
Test Graphs



11B_Ant1_2412_0~Reference



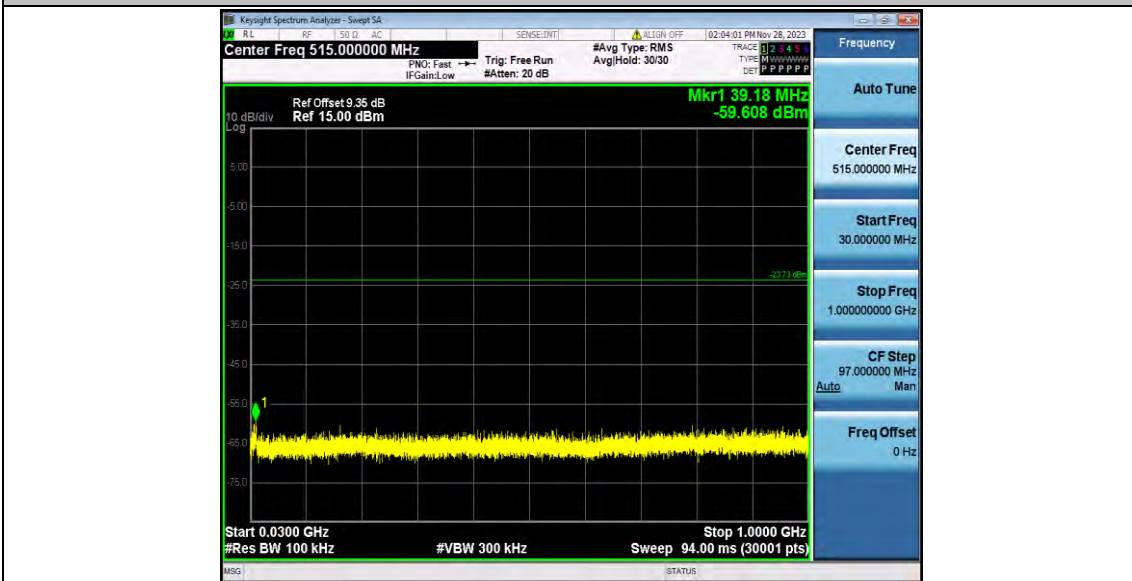
11B_Ant1_2412_30~1000



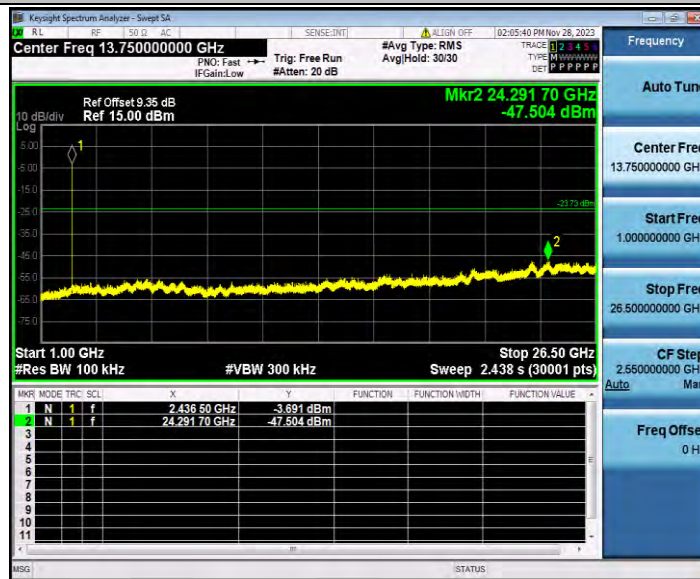
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



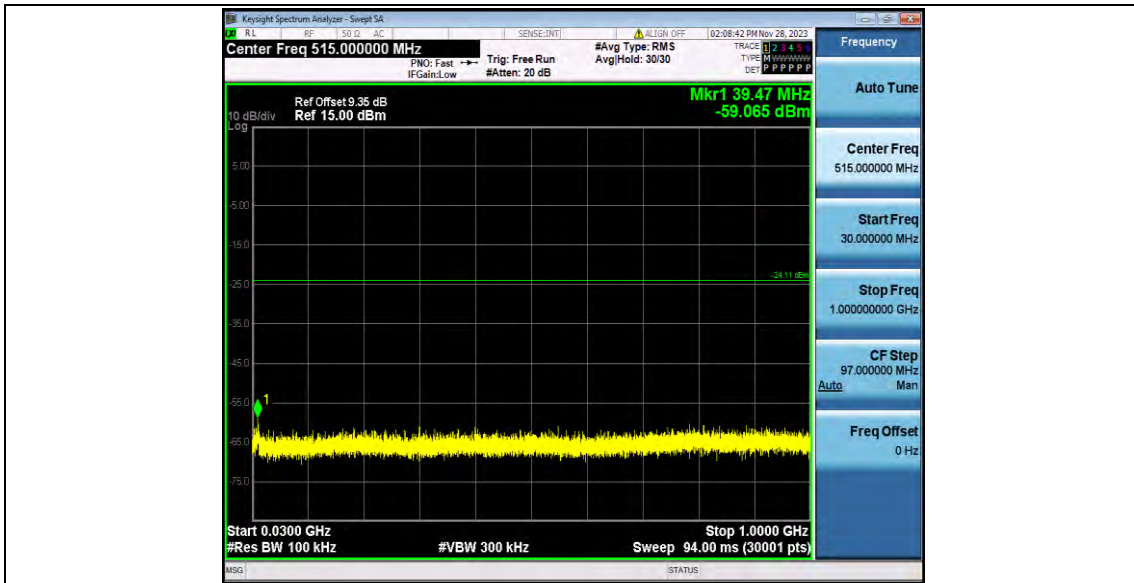
11B_Ant1_2437_30~1000



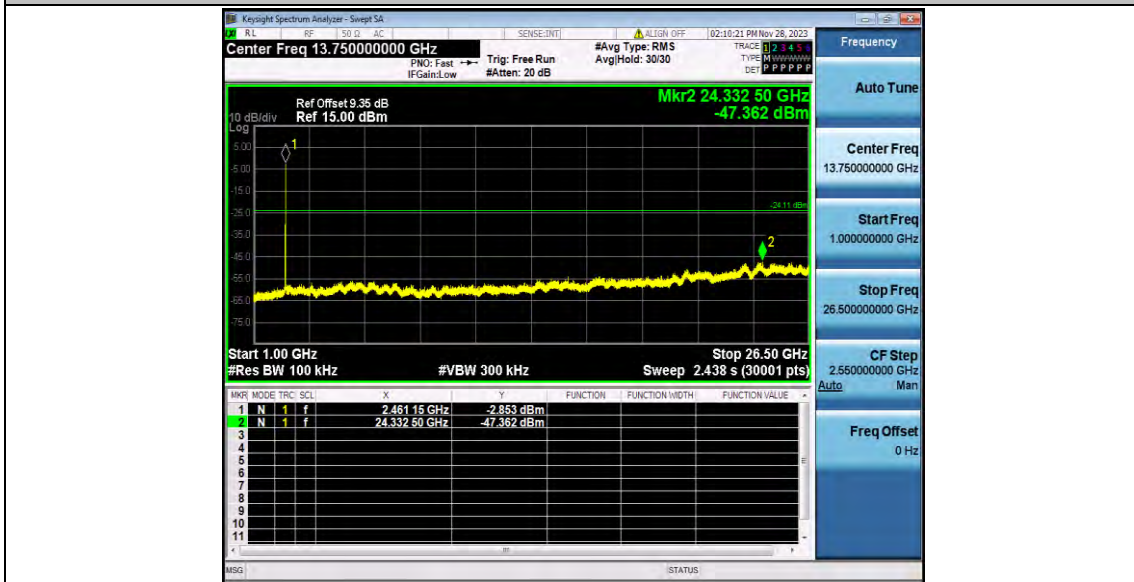
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



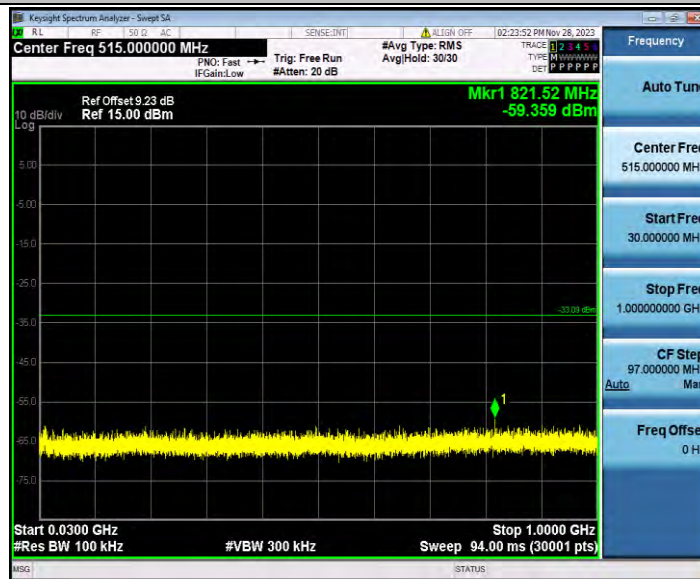
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



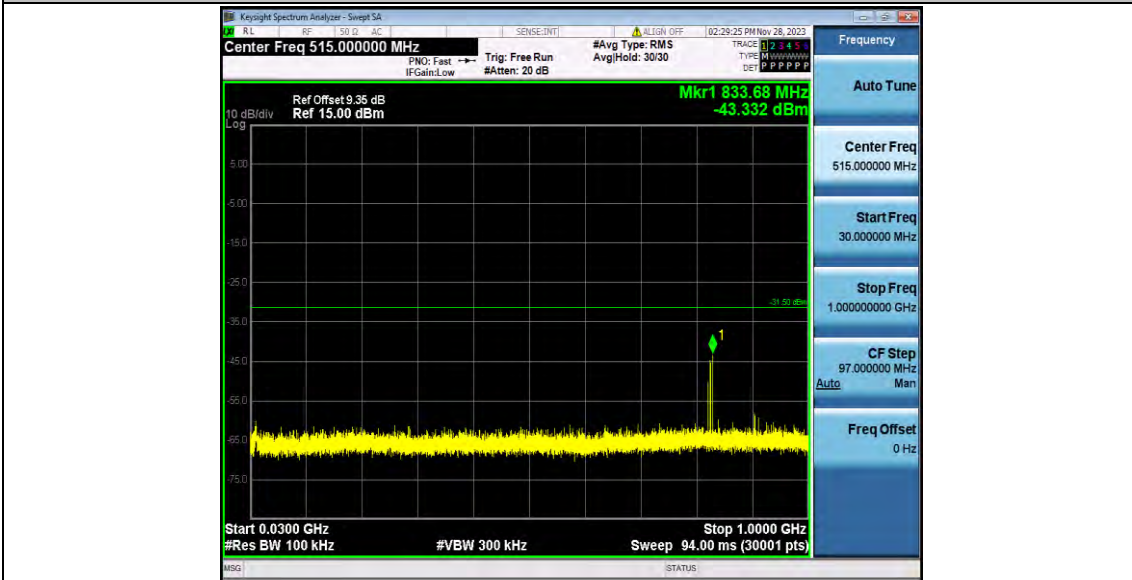
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



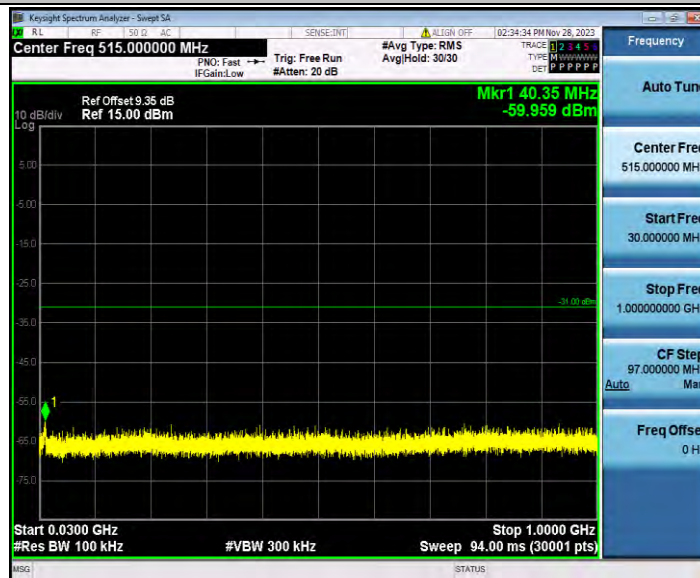
11G_Ant1_2437_30~1000



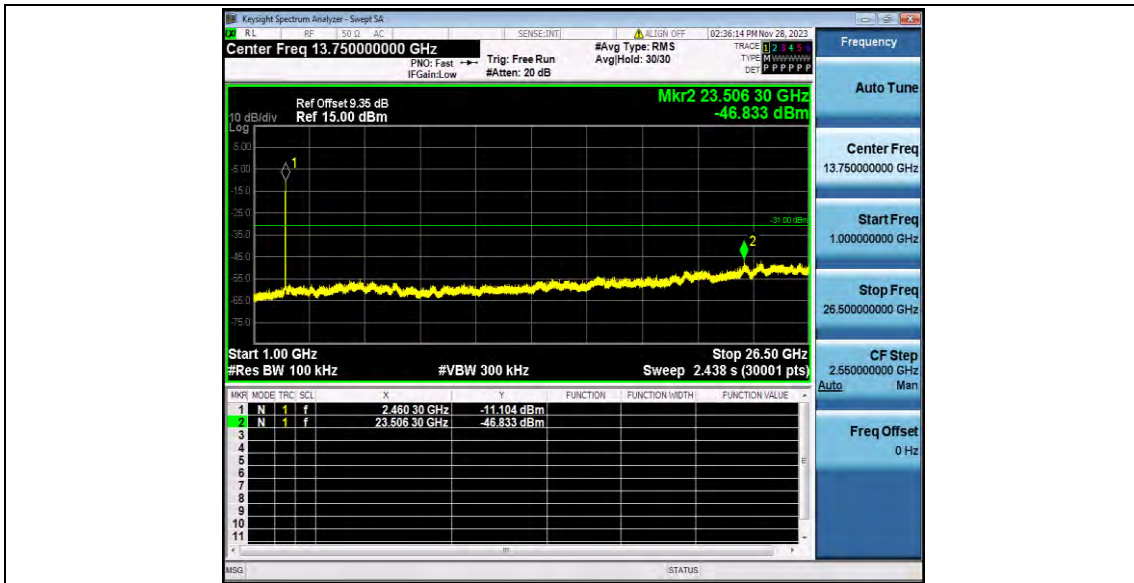
11G_Ant1_2437_1000~26500



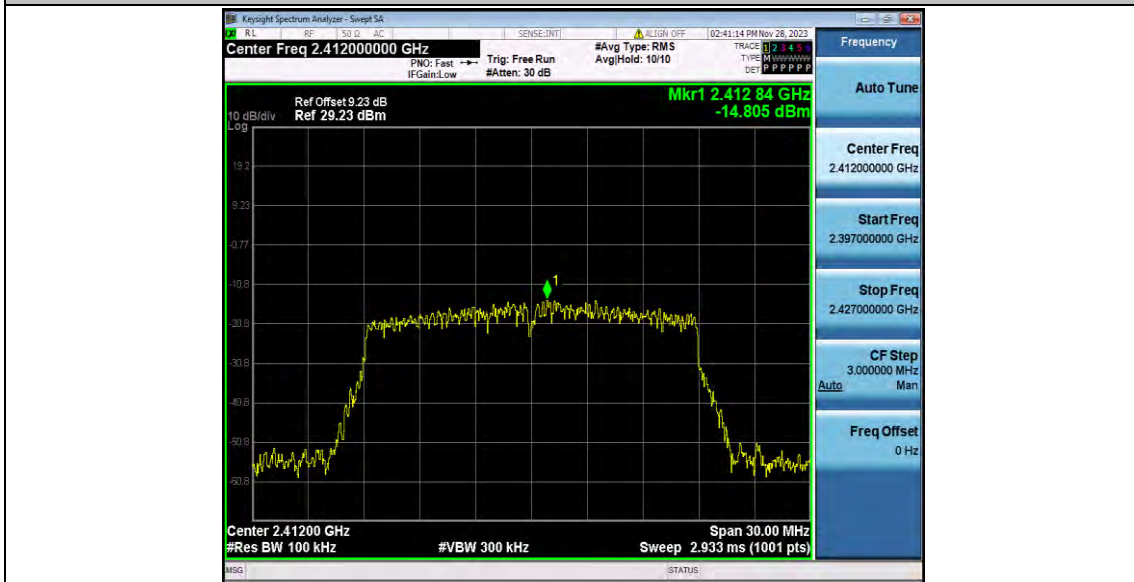
11G_Ant1_2462_0~Reference



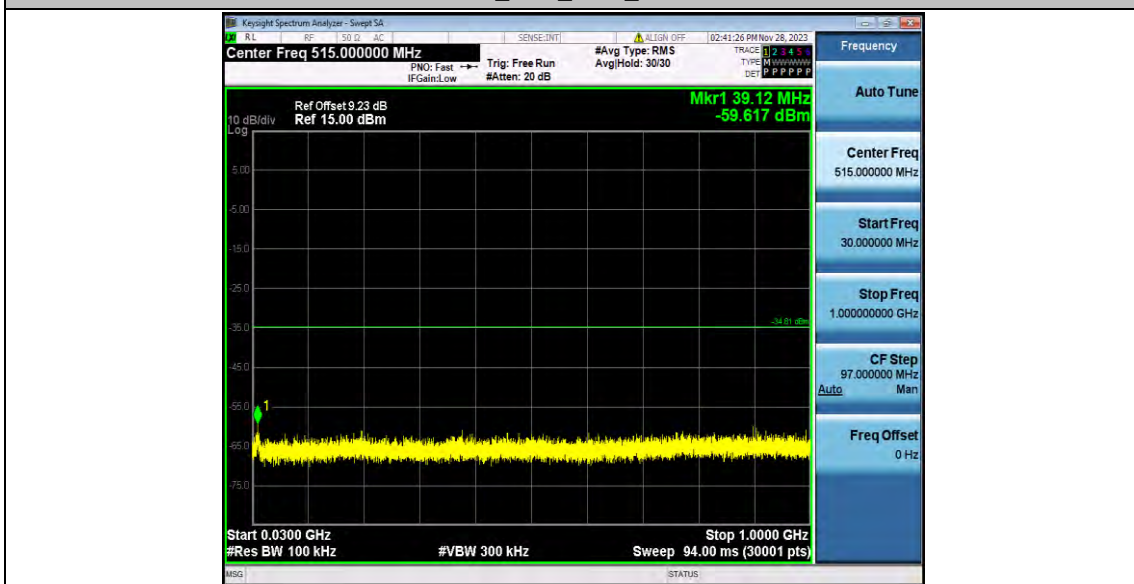
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



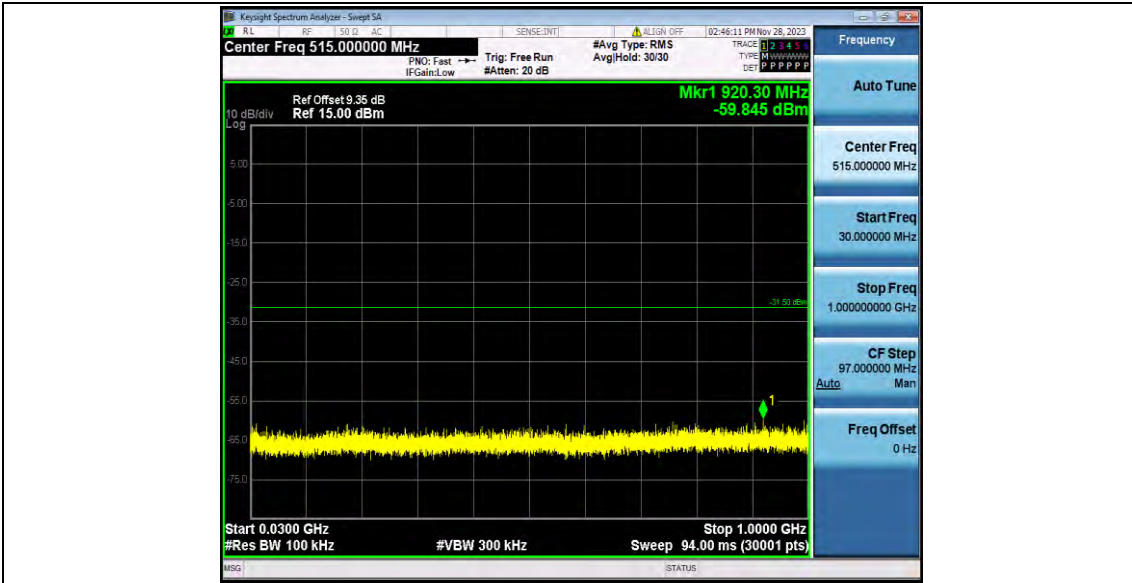
11N20SISO_Ant1_2412_30~1000



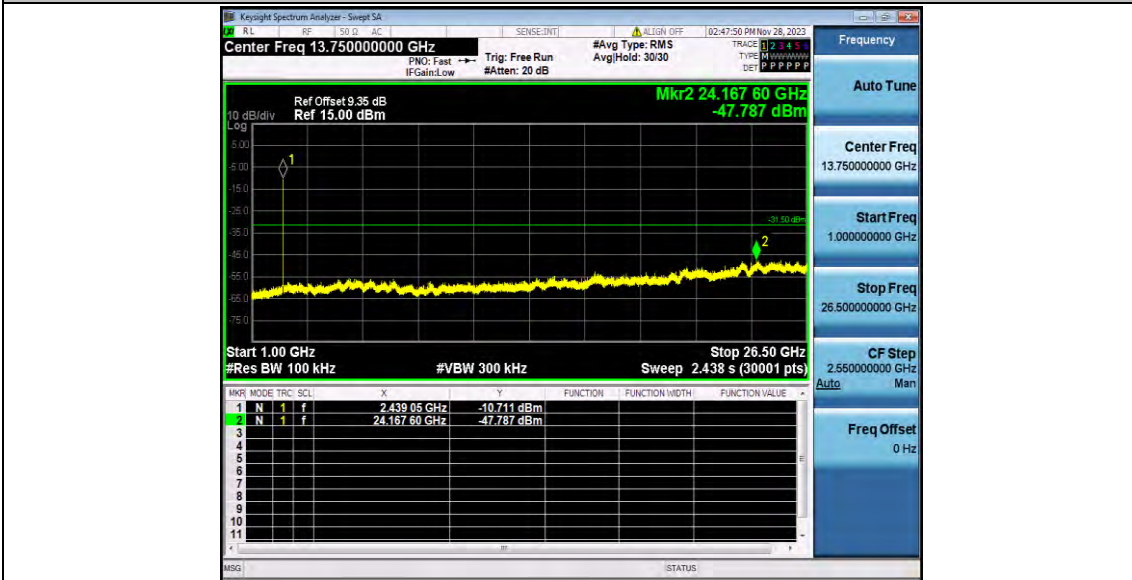
11N20SISO_Ant1_2412_1000~26500



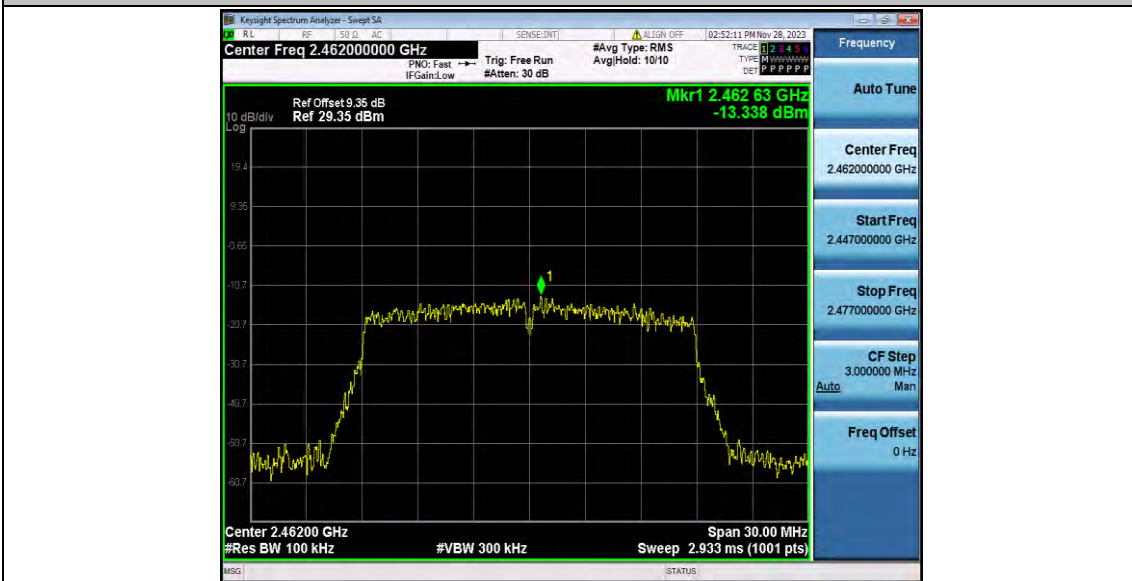
11N20SISO_Ant1_2437_0~Reference



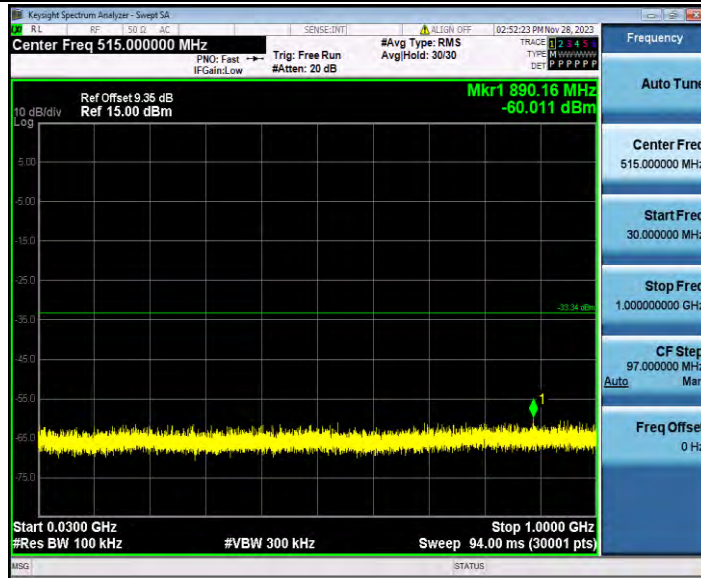
11N20SISO_Ant1_2437_30~1000



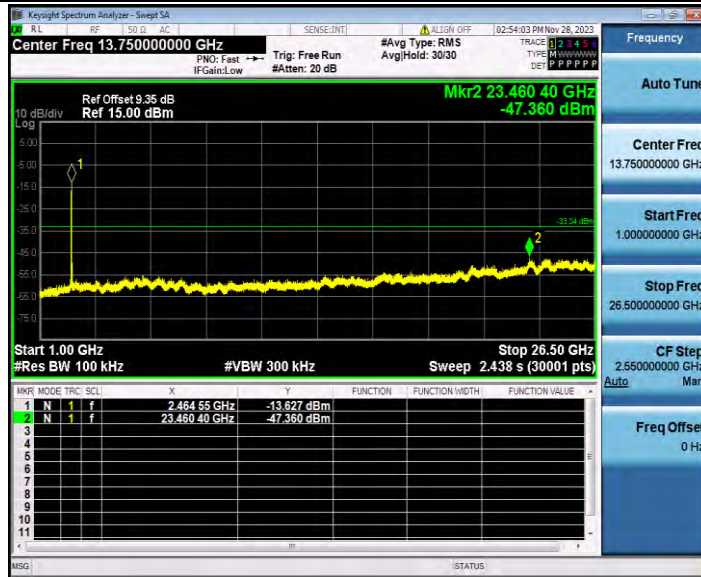
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



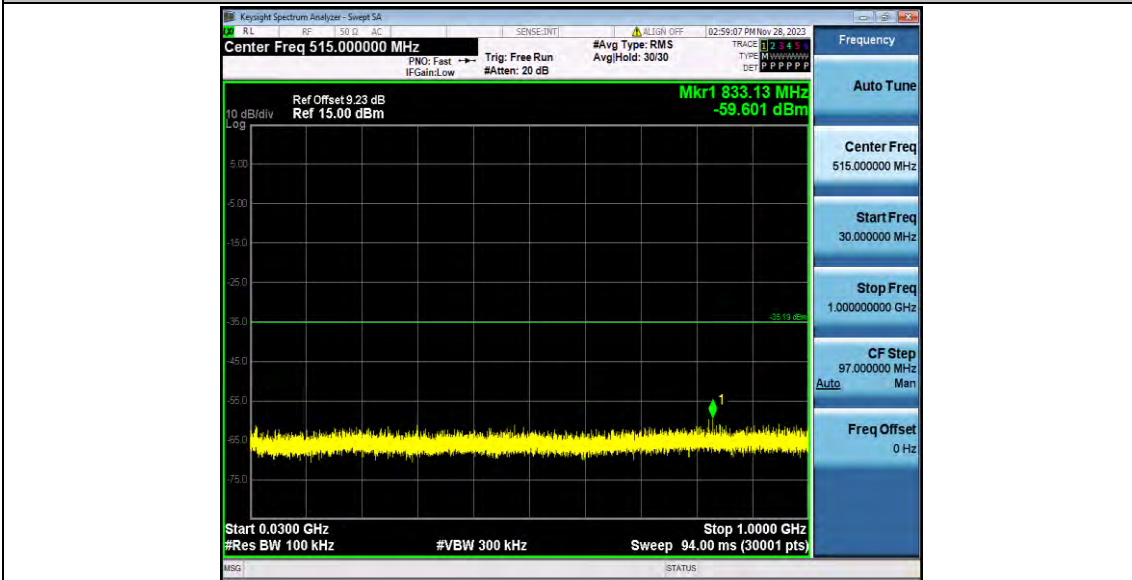
11N20SISO_Ant1_2462_30~1000



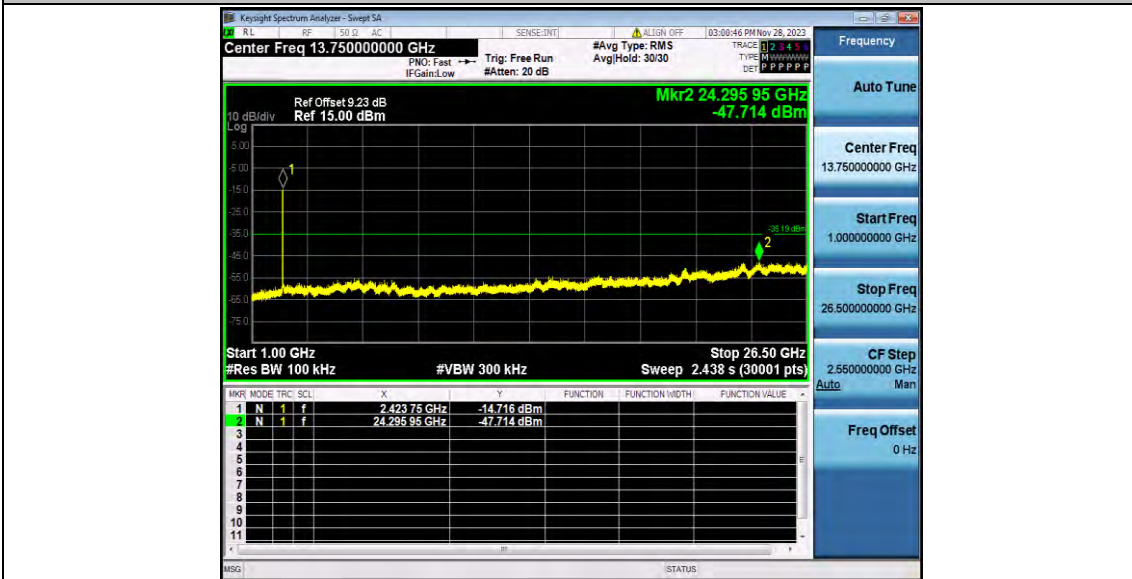
11N20SISO_Ant1_2462_1000~26500



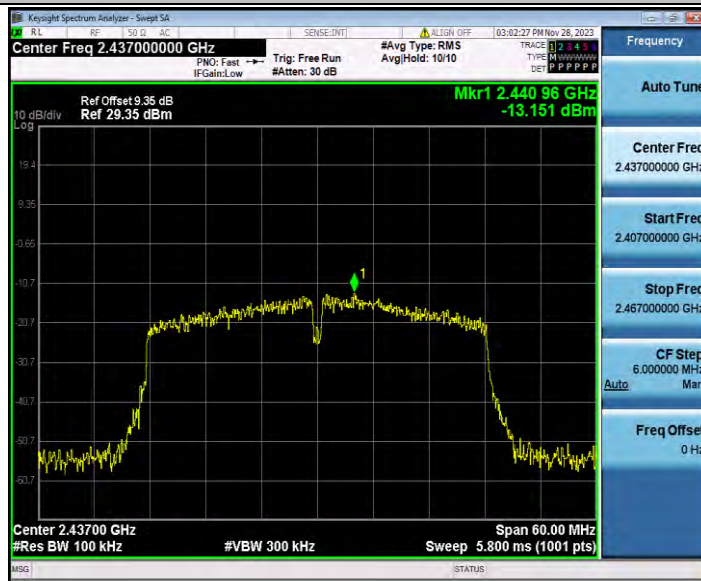
11N40SISO_Ant1_2422_0~Reference



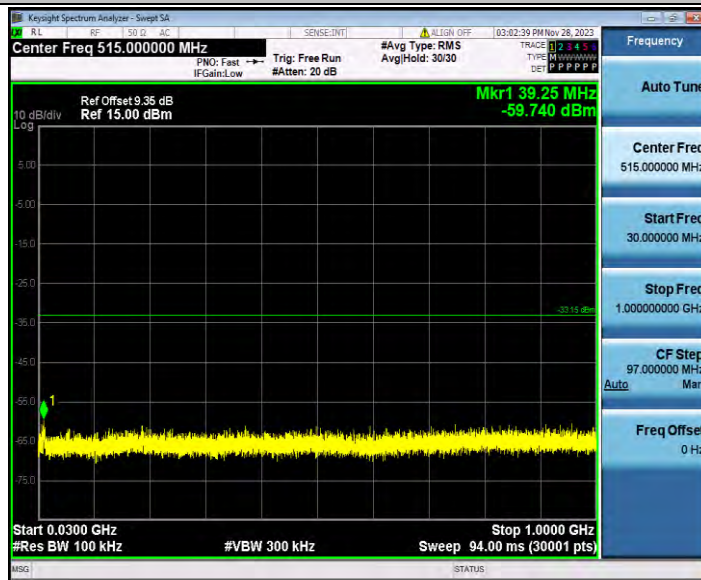
11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



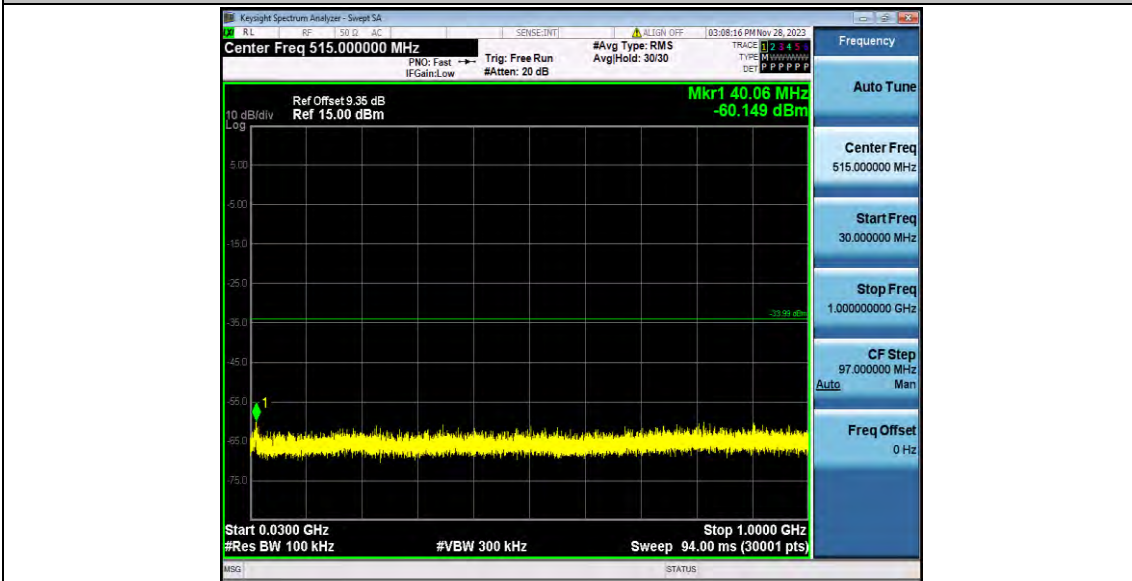
11N40SISO_Ant1_2437_30~1000

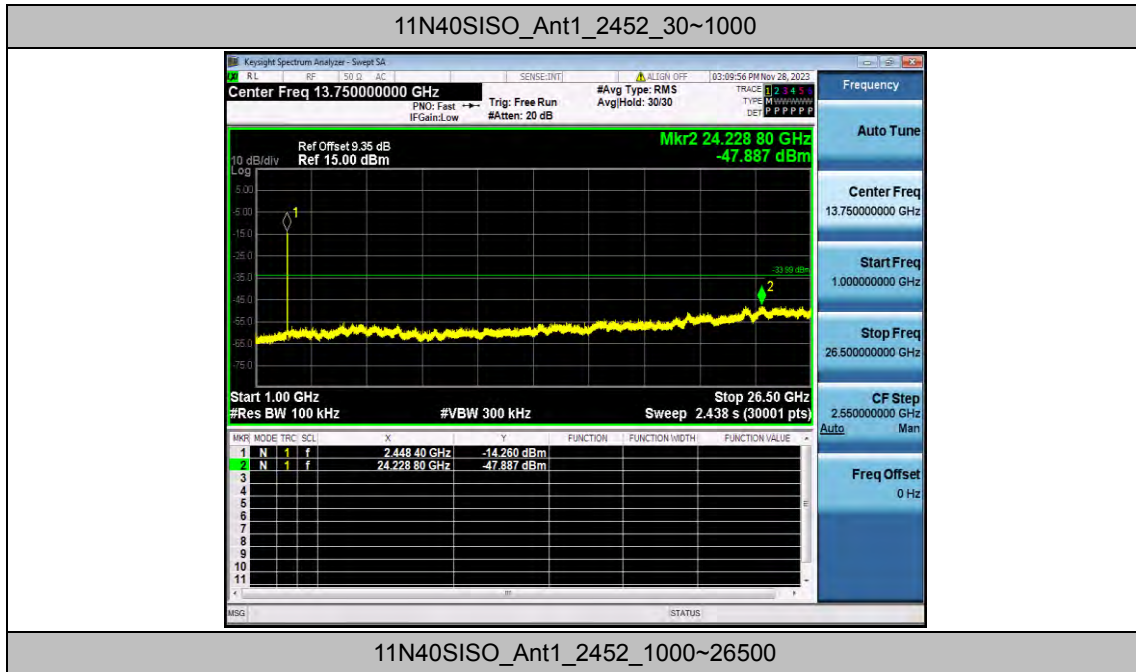


11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference





Appendix C.7: Emissions in Restricted Bands

Test Result

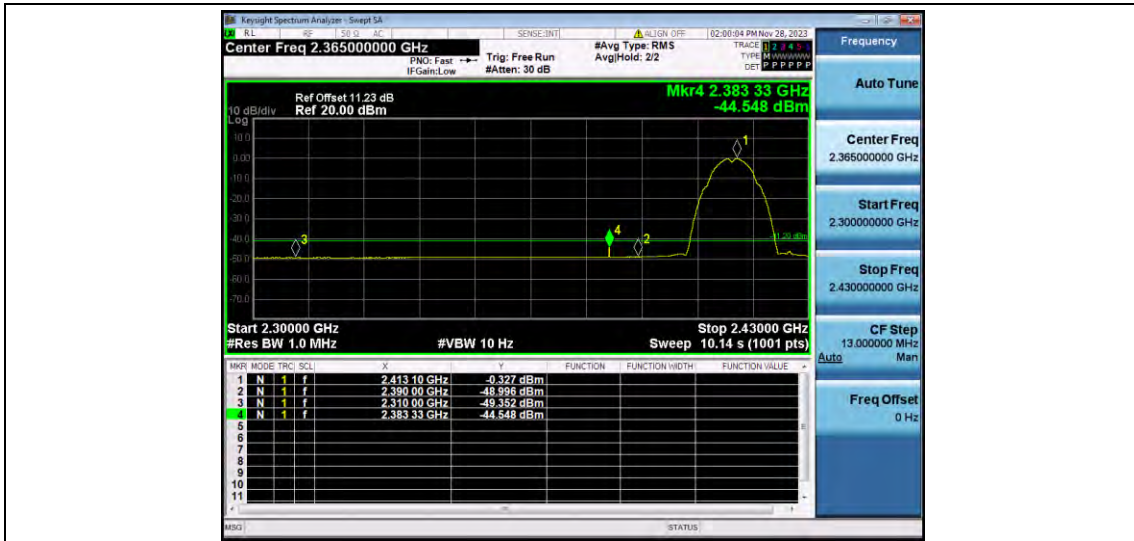
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.35	≤-41.20	45.85	≤54	PASS
				AV	2383.330	-44.55	≤-41.20	50.65	≤54	PASS
				AV	2390.000	-49	≤-41.20	46.20	≤54	PASS
				Peak	2310.000	-45.8	≤-21.20	49.40	≤74	PASS
				Peak	2352.780	-40.37	≤-21.20	54.83	≤74	PASS
				Peak	2390.000	-46.36	≤-21.20	48.84	≤74	PASS
		High	2462	AV	2483.500	-48.74	≤-41.20	46.46	≤54	PASS
				AV	2495.440	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2500.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2483.500	-45.99	≤-21.20	49.21	≤74	PASS
				Peak	2497.640	-40.1	≤-21.20	55.10	≤74	PASS
				Peak	2500.000	-44.55	≤-21.20	50.65	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2381.640	-42.49	≤-41.20	52.71	≤54	PASS
				AV	2390.000	-48.94	≤-41.20	46.26	≤54	PASS
				Peak	2310.000	-49.02	≤-21.20	46.18	≤74	PASS
				Peak	2333.540	-40.88	≤-21.20	54.32	≤74	PASS
				Peak	2390.000	-43.84	≤-21.20	51.36	≤74	PASS
		High	2462	AV	2483.500	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2499.290	-48.42	≤-41.20	46.78	≤54	PASS
				AV	2500.000	-48.47	≤-41.20	46.73	≤54	PASS
				Peak	2483.500	-49.8	≤-21.20	45.40	≤74	PASS
				Peak	2489.390	-41.64	≤-21.20	53.56	≤74	PASS
				Peak	2500.000	-43.39	≤-21.20	51.81	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.32	≤-41.20	45.88	≤54	PASS
				AV	2387.360	-42.44	≤-41.20	52.76	≤54	PASS
				AV	2390.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2310.000	-46.94	≤-21.20	48.26	≤74	PASS
				Peak	2381.510	-39.31	≤-21.20	55.89	≤74	PASS
				Peak	2390.000	-48.96	≤-21.20	46.24	≤74	PASS
		High	2462	AV	2483.500	-48.69	≤-41.20	46.51	≤54	PASS
				AV	2499.510	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-48.4	≤-21.20	46.80	≤74	PASS
				Peak	2495.880	-41.02	≤-21.20	54.18	≤74	PASS
				Peak	2495.880	-41.02	≤-21.20	54.18	≤74	PASS

				Peak	2500.000	-46.32	≤ -21.20	48.88	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.44	≤ -41.20	45.76	≤ 54	PASS
				AV	2389.830	-49.06	≤ -41.20	46.14	≤ 54	PASS
				AV	2390.000	-49.08	≤ -41.20	46.12	≤ 54	PASS
				Peak	2310.000	-51.09	≤ -21.20	44.11	≤ 74	PASS
				Peak	2359.410	-40.77	≤ -21.20	54.43	≤ 74	PASS
				Peak	2390.000	-47.89	≤ -21.20	47.31	≤ 74	PASS
		High	2452	AV	2483.500	-48.85	≤ -41.20	46.35	≤ 54	PASS
				AV	2499.840	-48.65	≤ -41.20	46.55	≤ 54	PASS
				AV	2500.000	-48.66	≤ -41.20	46.54	≤ 54	PASS
				Peak	2483.500	-48.5	≤ -21.20	46.70	≤ 74	PASS
				Peak	2498.410	-40.93	≤ -21.20	54.27	≤ 74	PASS
				Peak	2500.000	-41.88	≤ -21.20	53.32	≤ 74	PASS

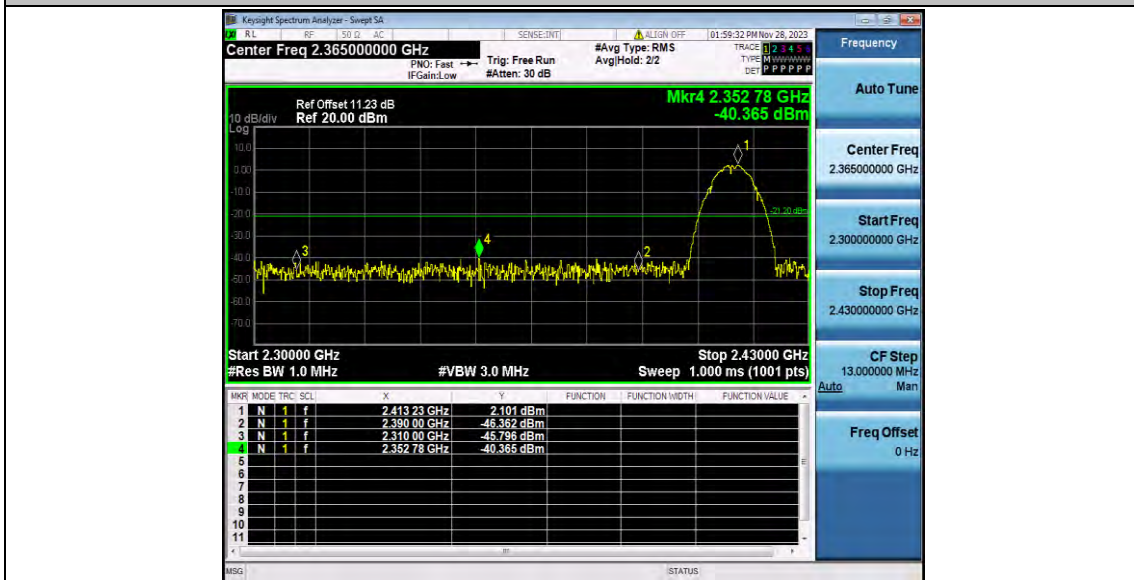
Note:

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.

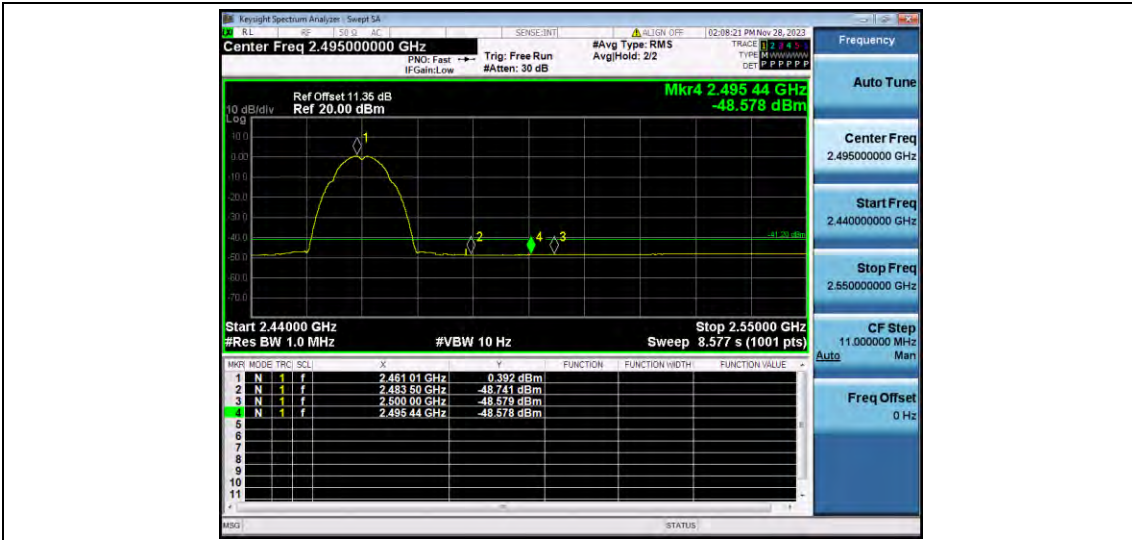
Test Graphs



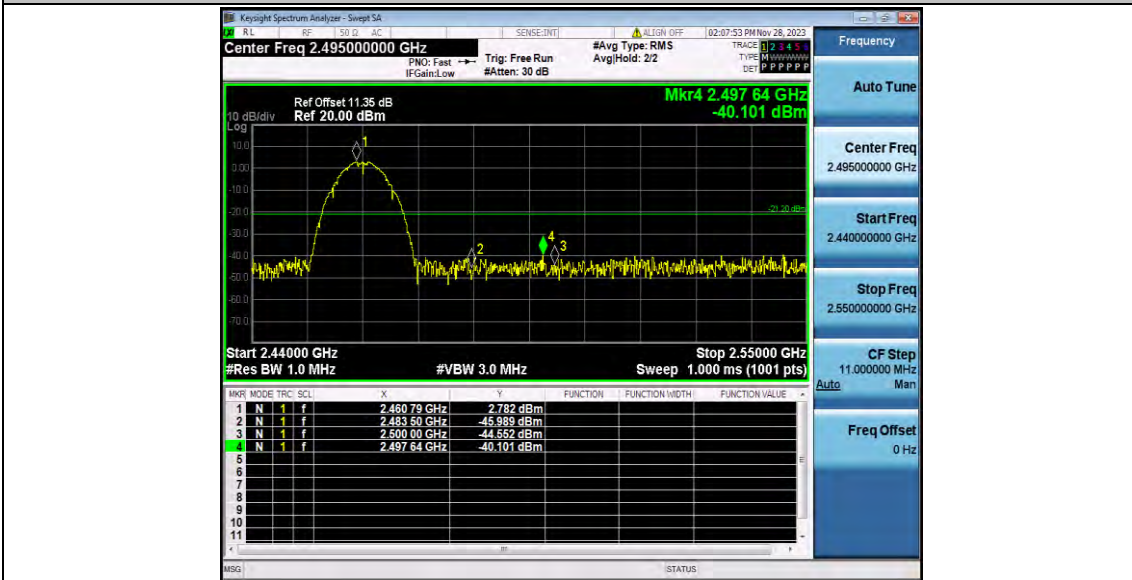
11B_Ant1_Low_2412_AV



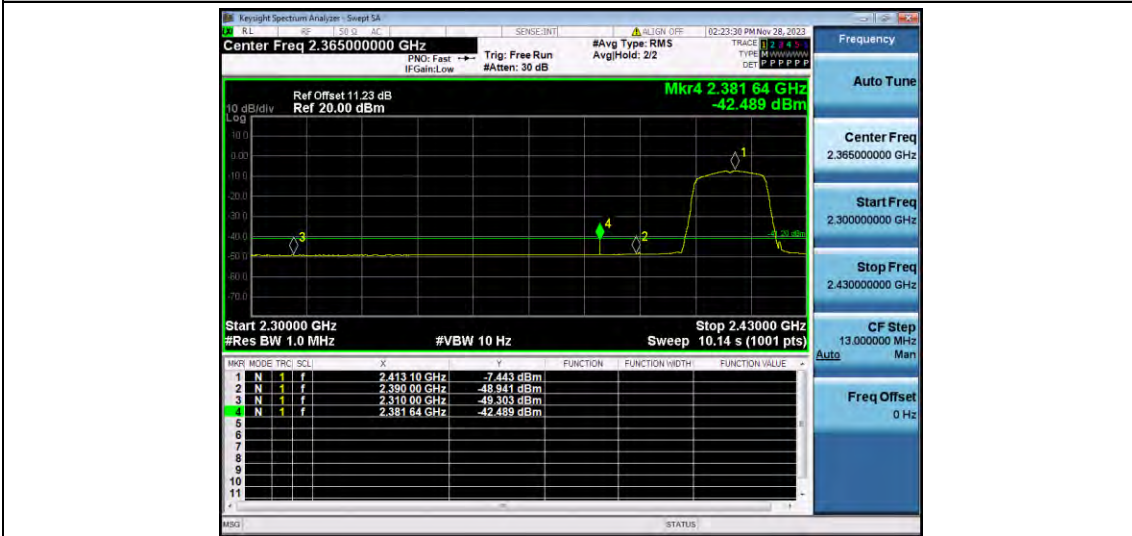
11B_Ant1_Low_2412_Peak



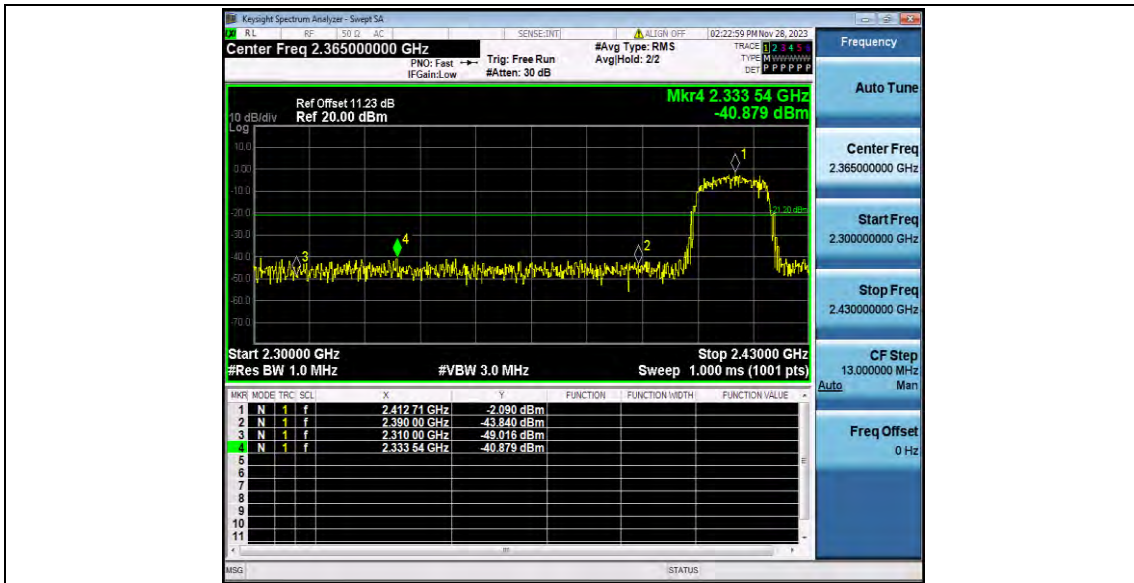
11B_Ant1_High_2462_AV



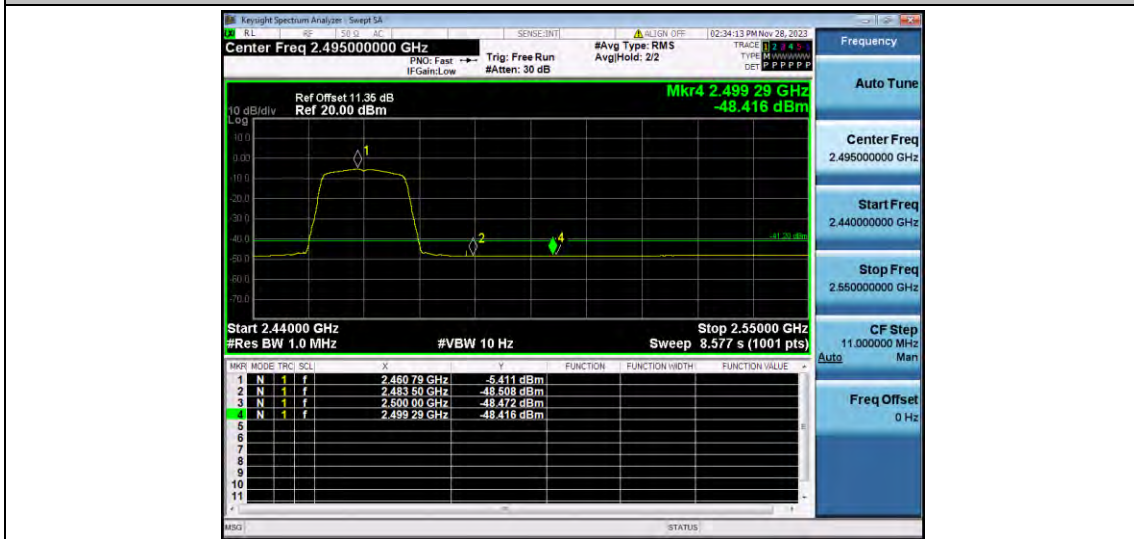
11B_Ant1_High_2462_Peak



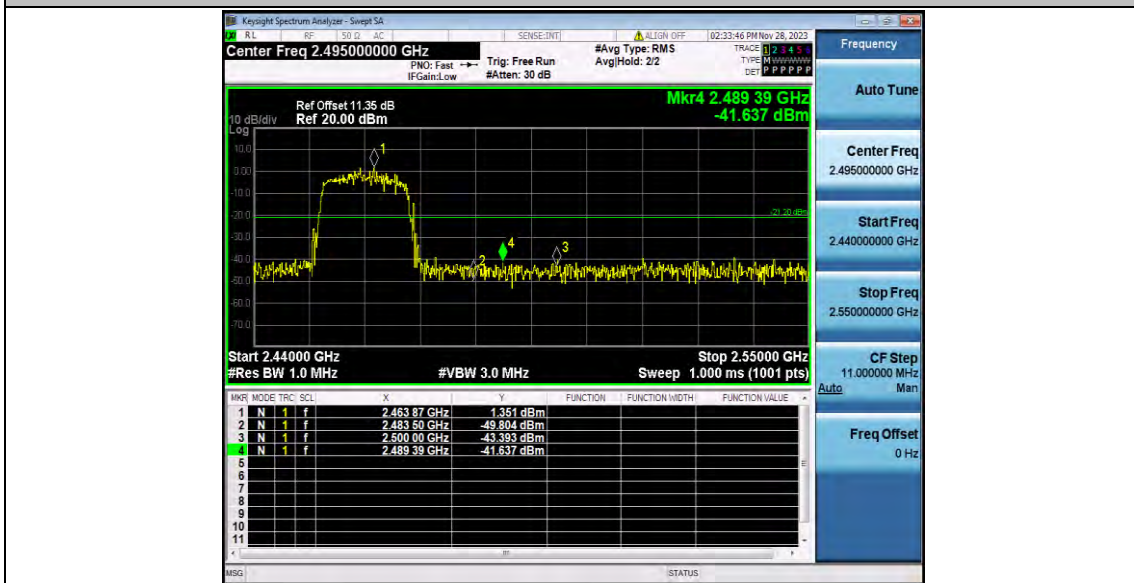
11G_Ant1_Low_2412_AV



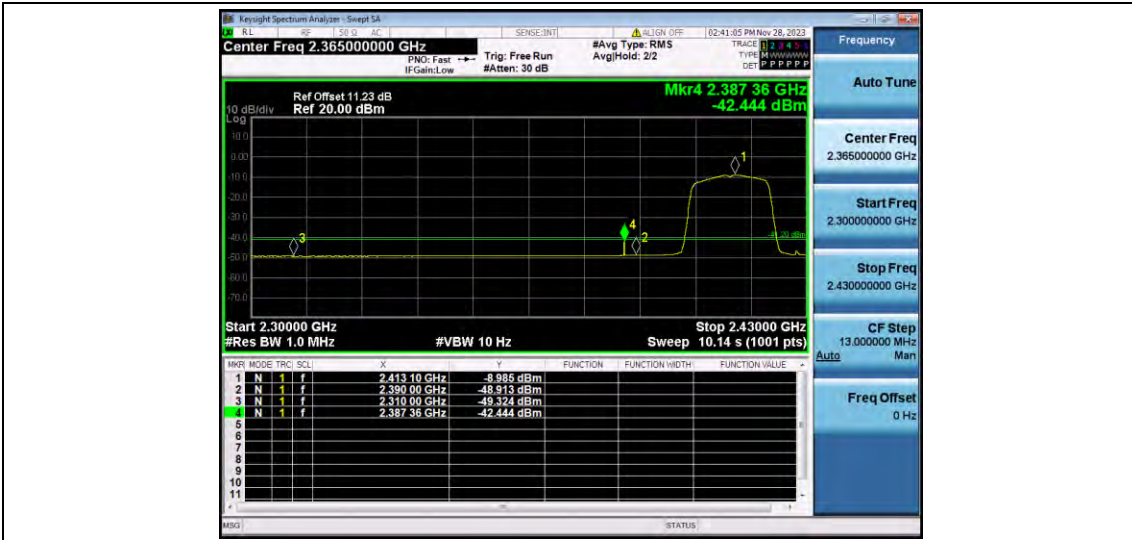
11G_Ant1_Low_2412_Peak



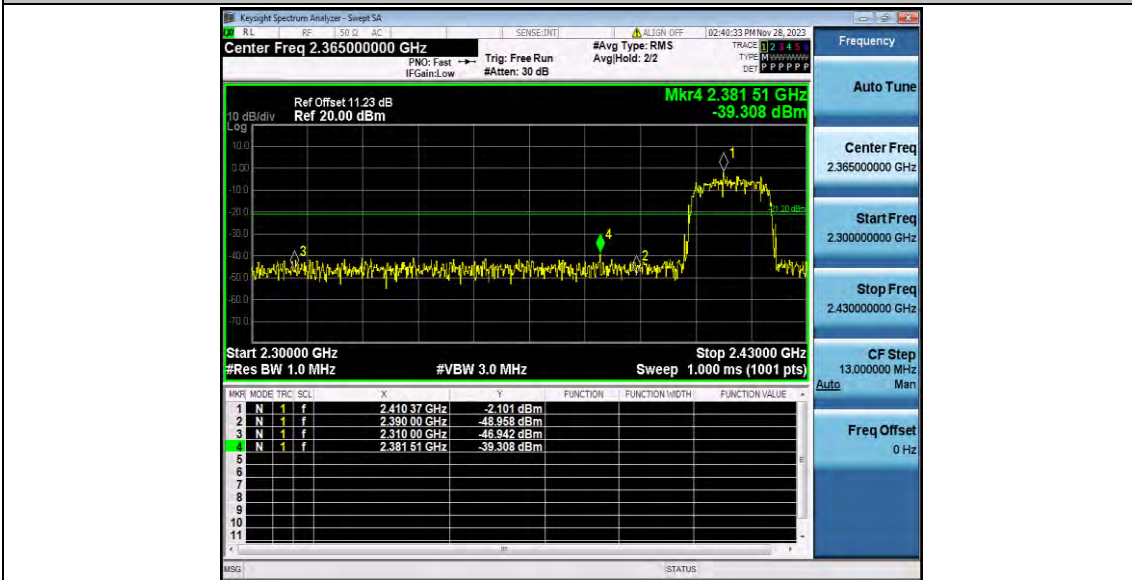
11G_Ant1_High_2462_AV



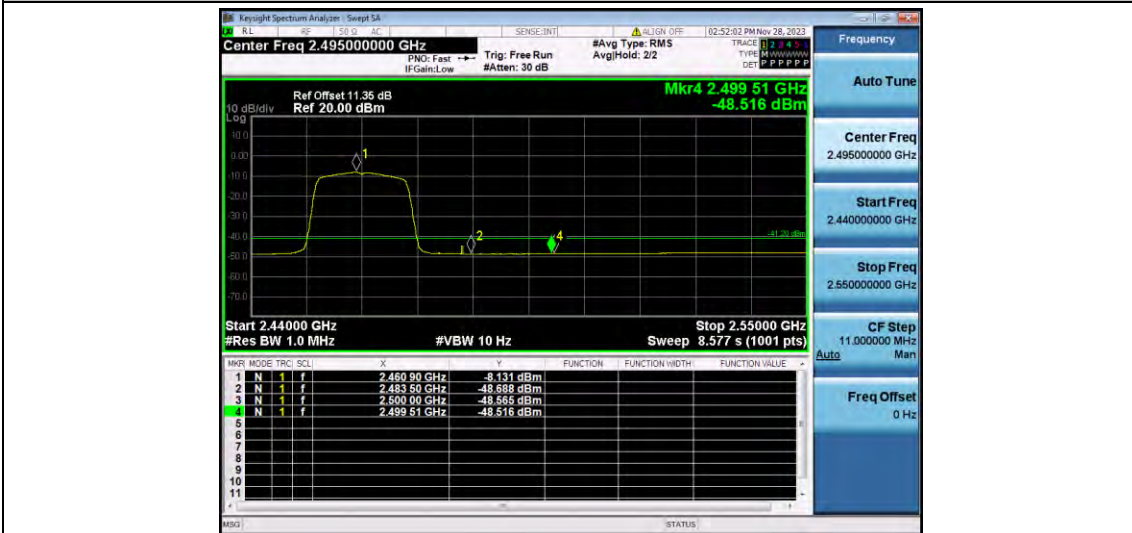
11G_Ant1_High_2462_Peak



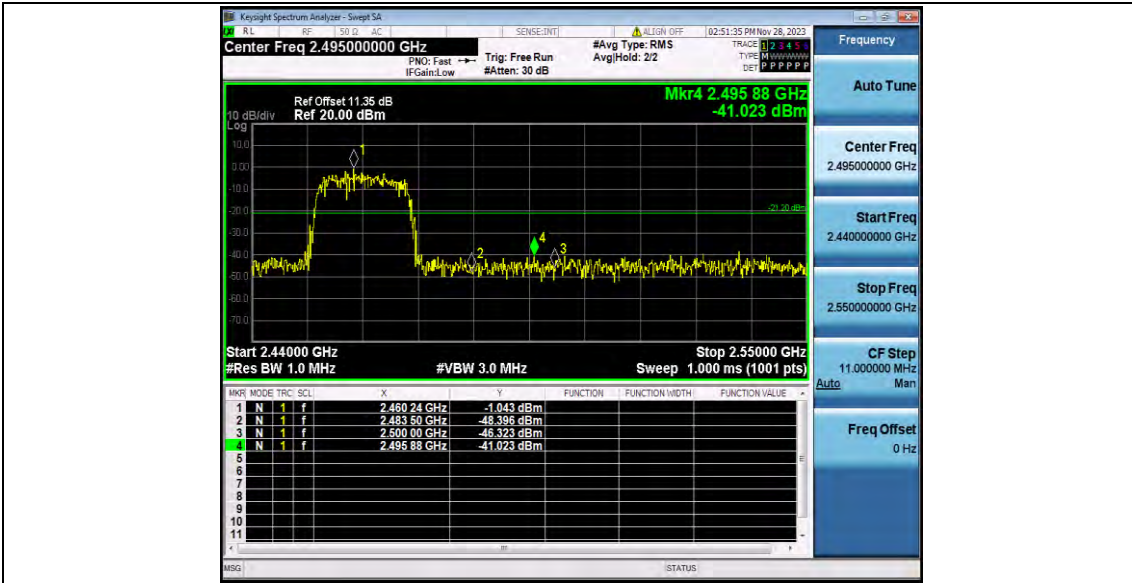
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



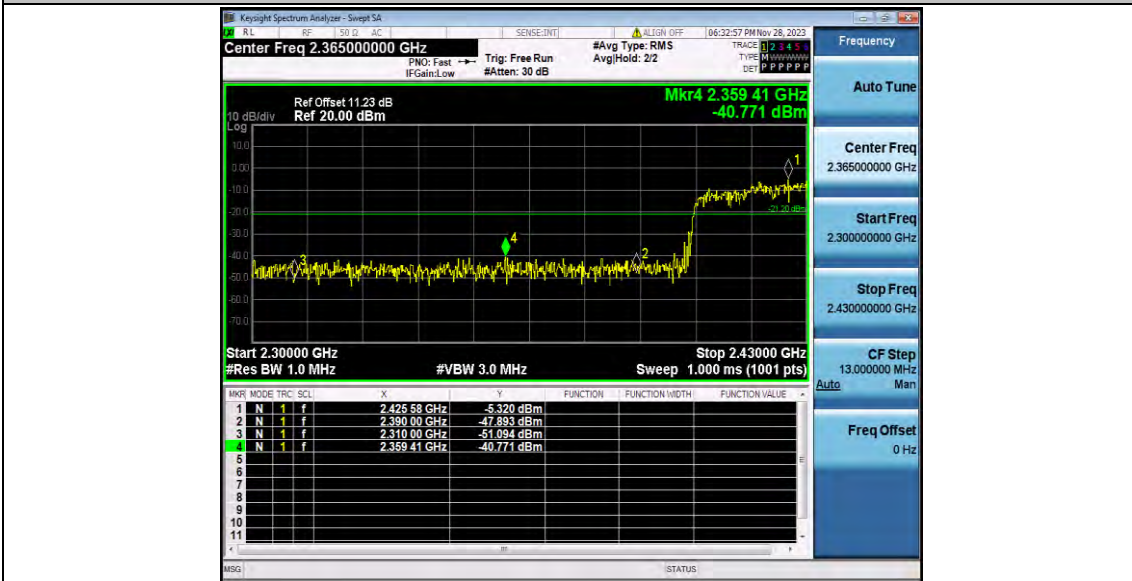
11N20SISO_Ant1_High_2462_AV



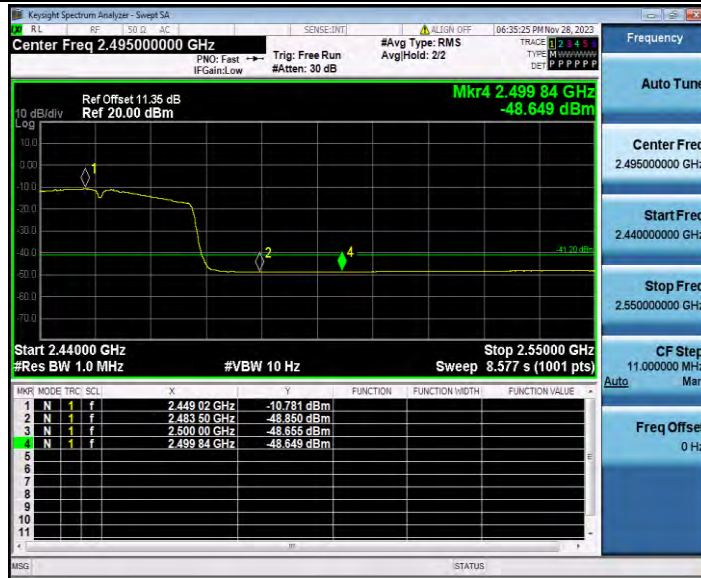
11N20SISO_Ant1_High_2462_Peak



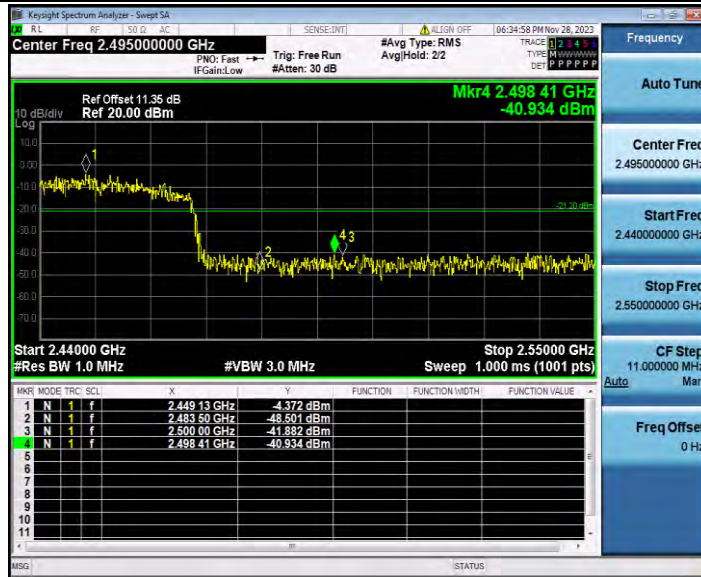
11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak