

Case No. : <u>GTS20231113021-1-3</u>
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.11.27</u> Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.440	2416.560	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.520	2420.760	0.5	PASS
		2437	17.520	2428.200	2445.720	0.5	PASS
		2462	17.520	2453.240	2470.760	0.5	PASS

Test Graphs



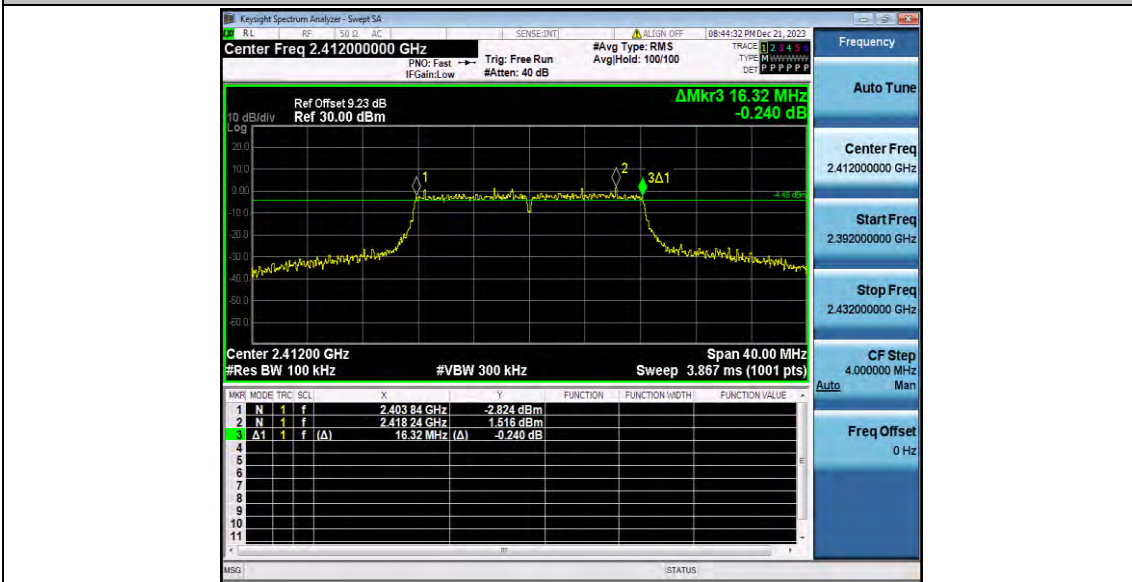
11B_Ant1_2412



11B_Ant1_2437



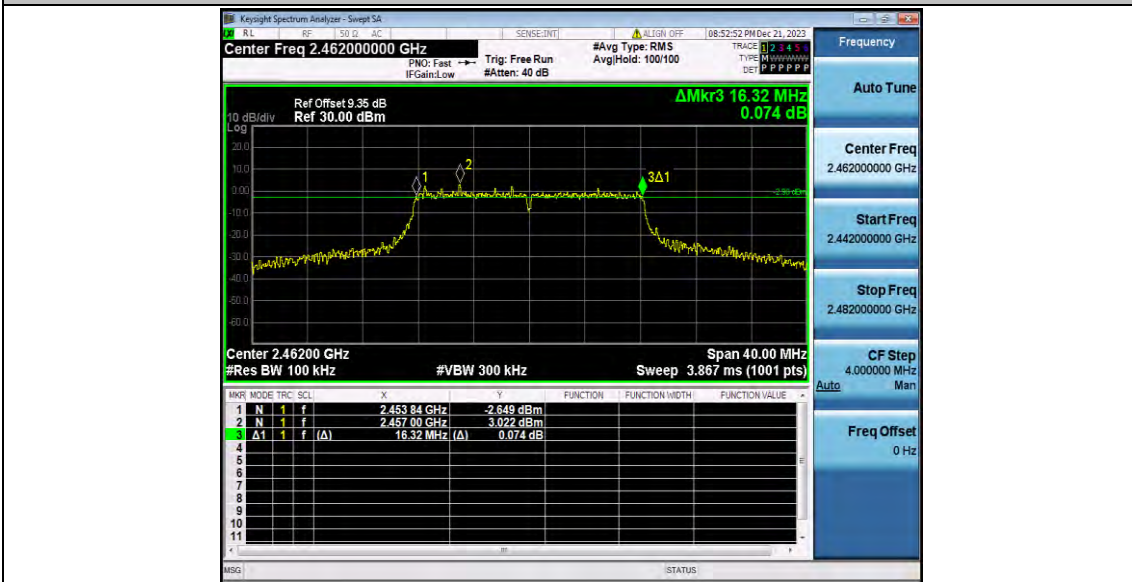
11B_Ant1_2462



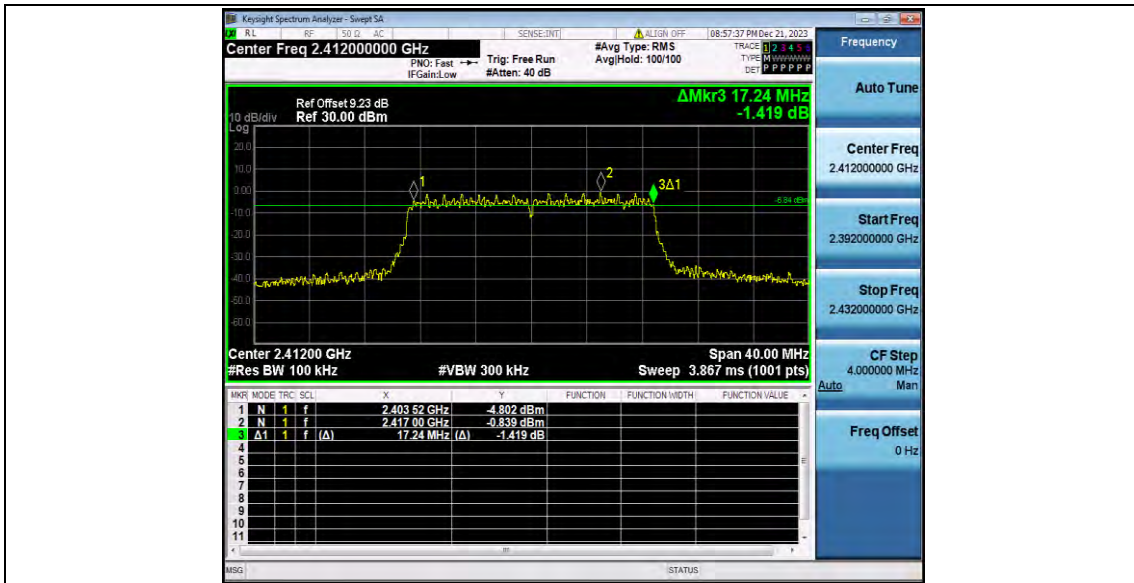
11G_Ant1_2412



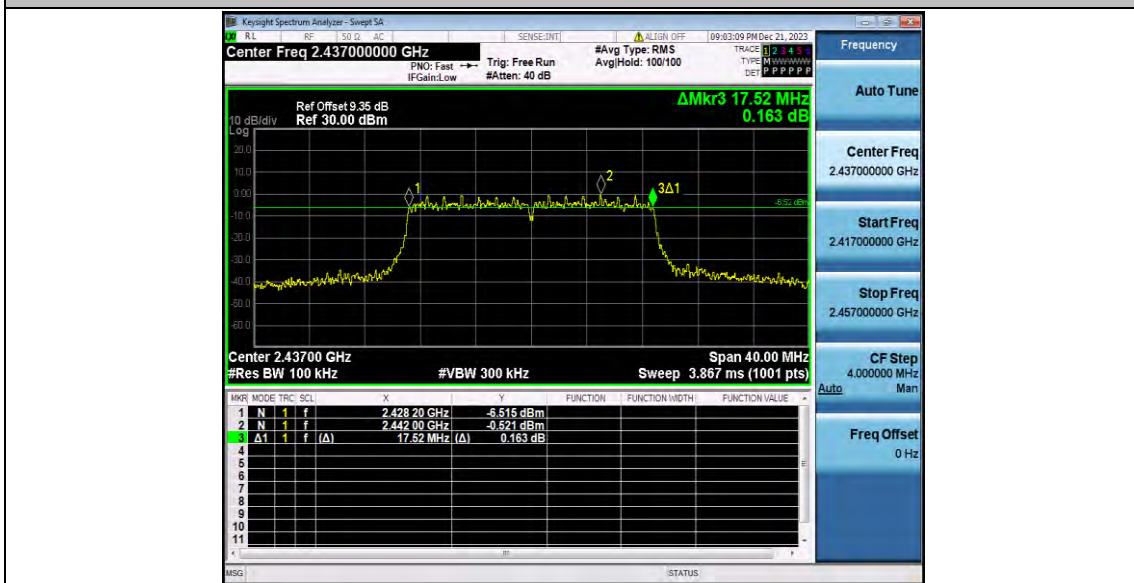
11G_Ant1_2437



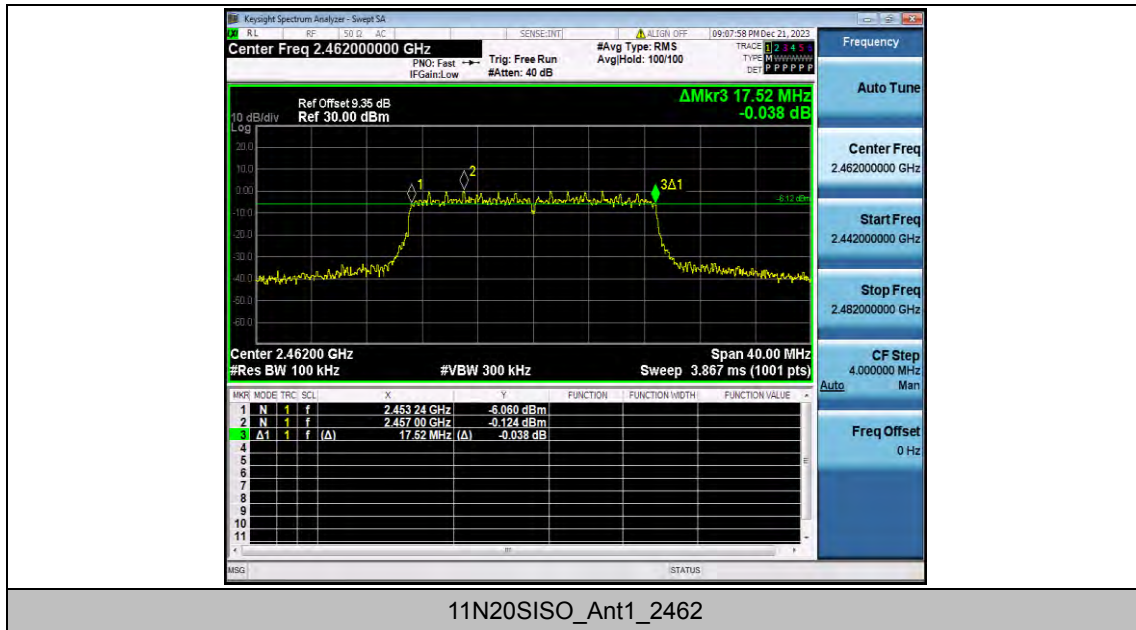
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

Appendix B.2: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.240	2404.450	2419.690	---	---
		2437	15.317	2429.378	2444.695	---	---
		2462	15.411	2454.313	2469.724	---	---
11G	Ant1	2412	17.009	2403.546	2420.555	---	---
		2437	17.111	2428.485	2445.596	---	---
		2462	17.100	2453.481	2470.581	---	---
11N20SISO	Ant1	2412	17.758	2403.128	2420.886	---	---
		2437	17.724	2428.146	2445.870	---	---
		2462	17.735	2453.109	2470.844	---	---

Test Graphs



11B_Ant1_2412



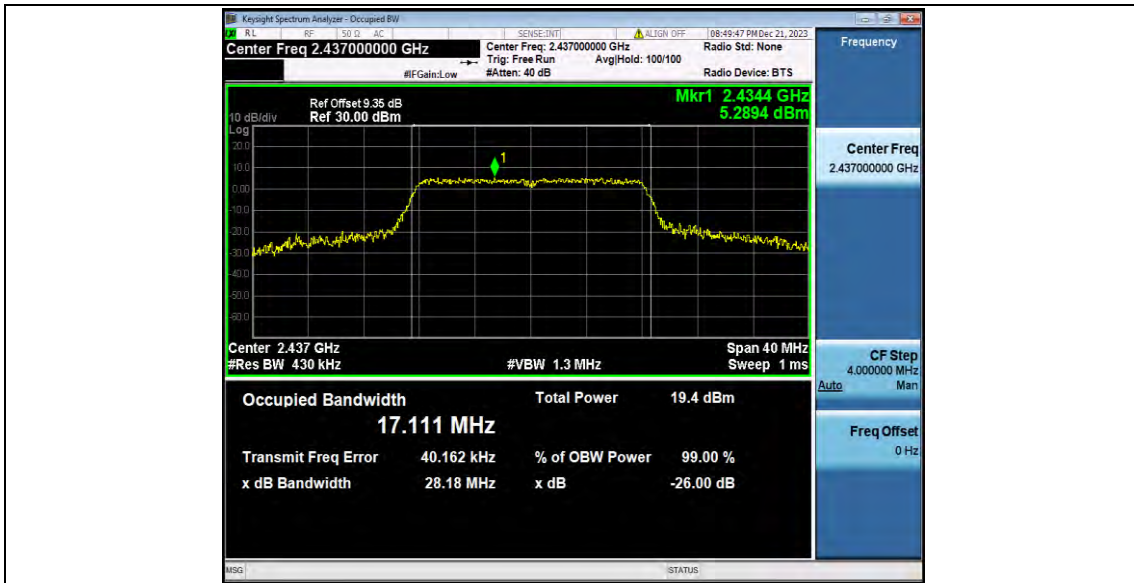
11B_Ant1_2437



11B_Ant1_2462



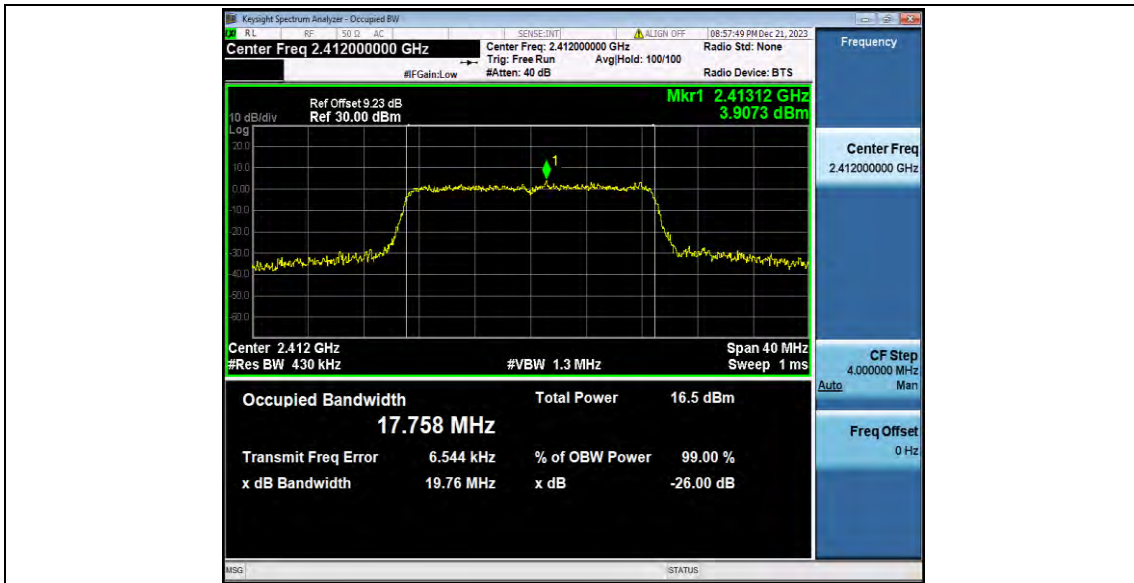
11G_Ant1_2412



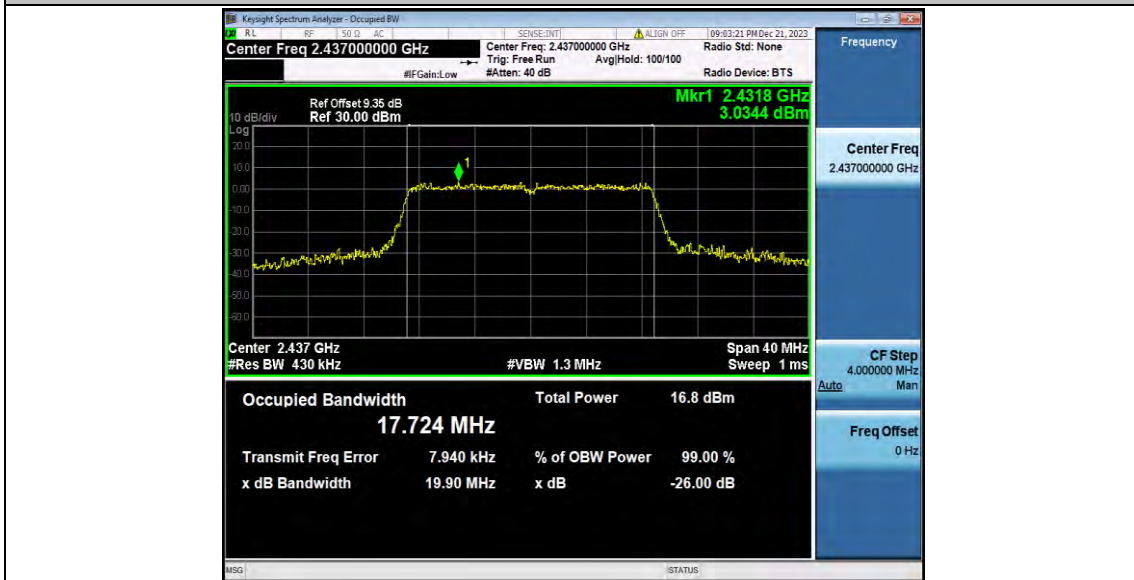
11G_Ant1_2437



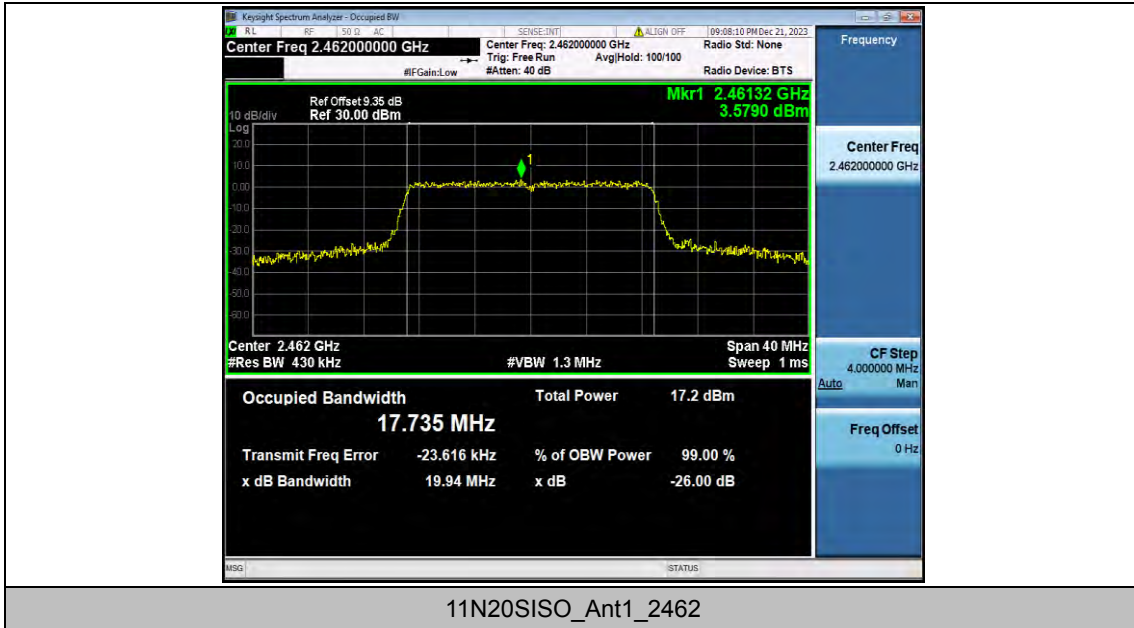
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix B.3: Maximum conducted output power**Test Result Peak**

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	18.22	≤30.00	PASS
		2437	18.37	≤30.00	PASS
		2462	18.66	≤30.00	PASS
11G	Ant1	2412	20.13	≤30.00	PASS
		2437	20.52	≤30.00	PASS
		2462	20.83	≤30.00	PASS
11N20SISO	Ant1	2412	17.16	≤30.00	PASS
		2437	17.69	≤30.00	PASS
		2462	18.06	≤30.00	PASS

Appendix B.4: Maximum power spectral density

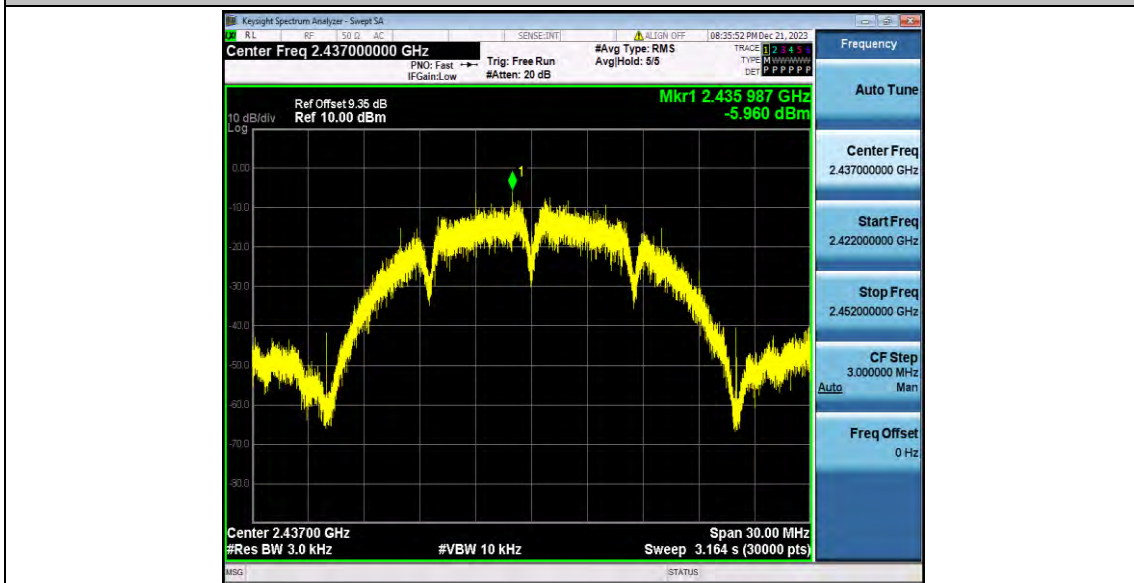
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.5	≤8.00	PASS
		2437	-5.96	≤8.00	PASS
		2462	-8.44	≤8.00	PASS
11G	Ant1	2412	-11.13	≤8.00	PASS
		2437	-12.11	≤8.00	PASS
		2462	-11.62	≤8.00	PASS
11N20SISO	Ant1	2412	-15.76	≤8.00	PASS
		2437	-15.27	≤8.00	PASS
		2462	-14.72	≤8.00	PASS

Test Graphs



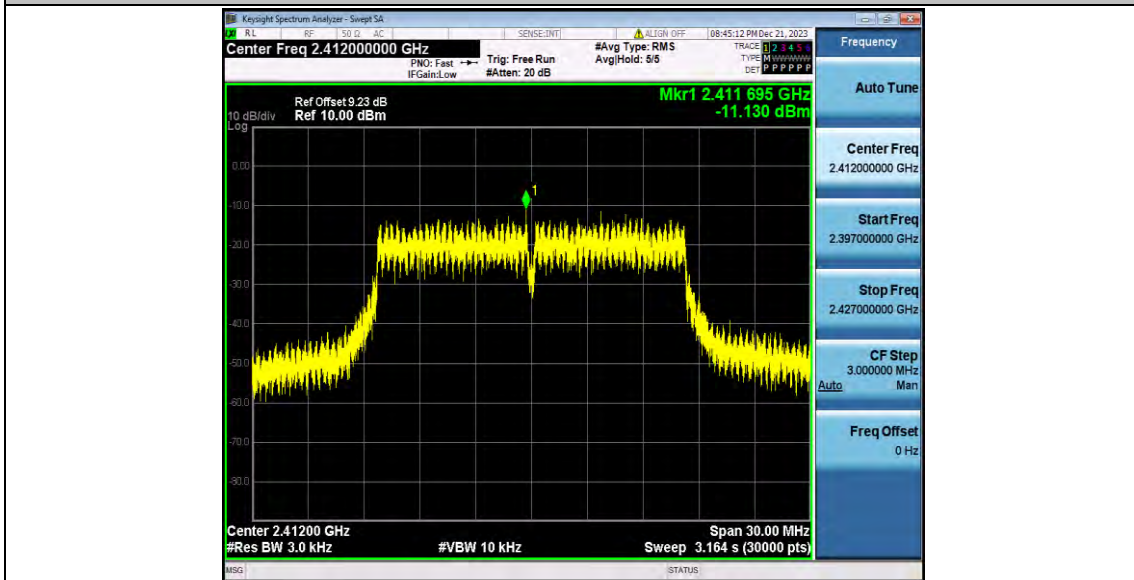
11B_Ant1_2412



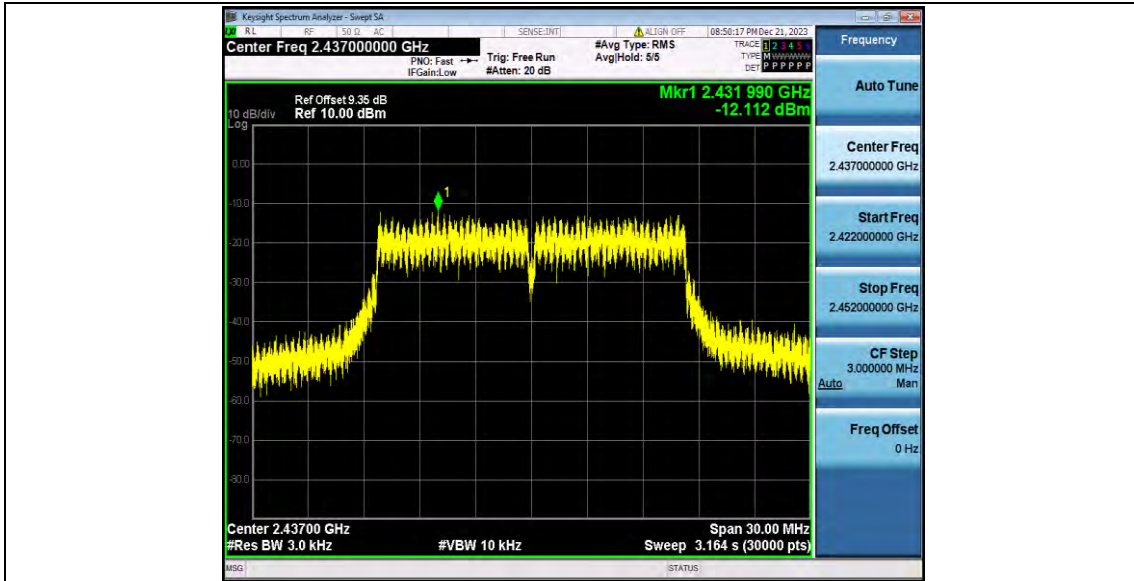
11B_Ant1_2437



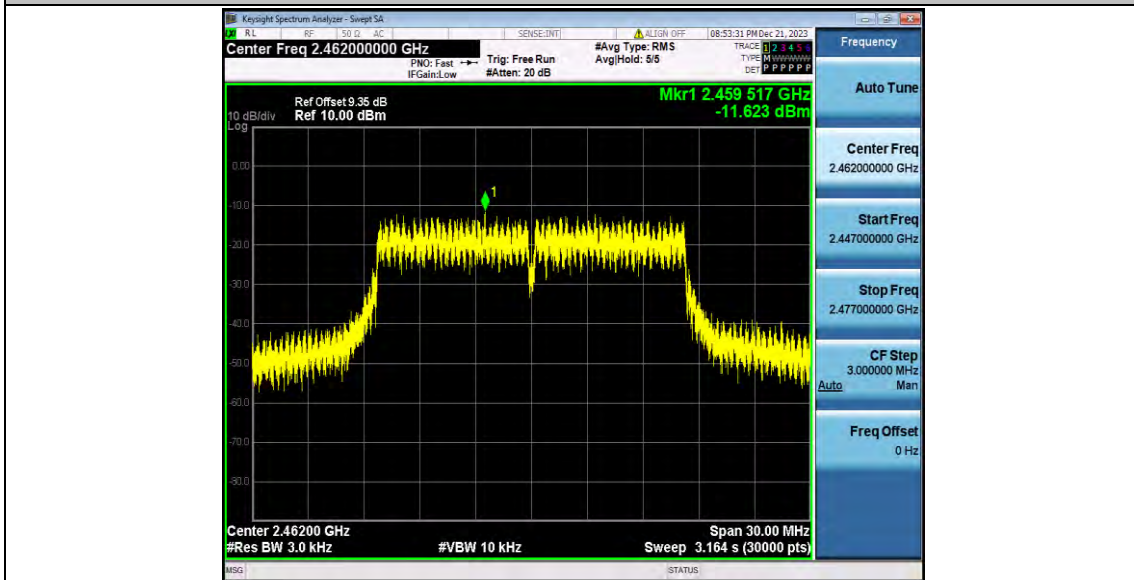
11B_Ant1_2462



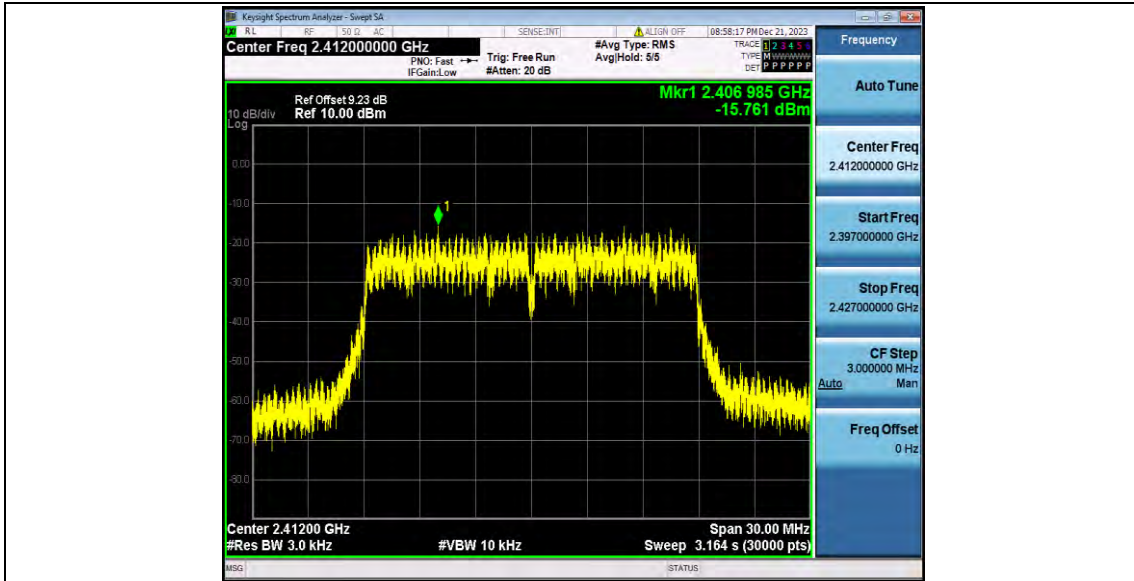
11G_Ant1_2412



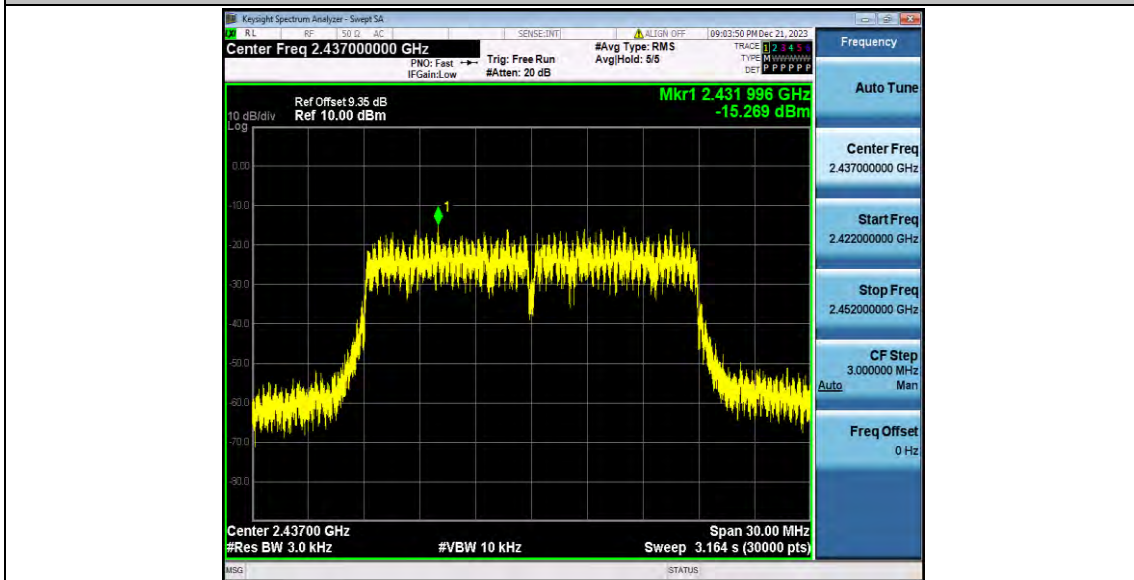
11G_Ant1_2437



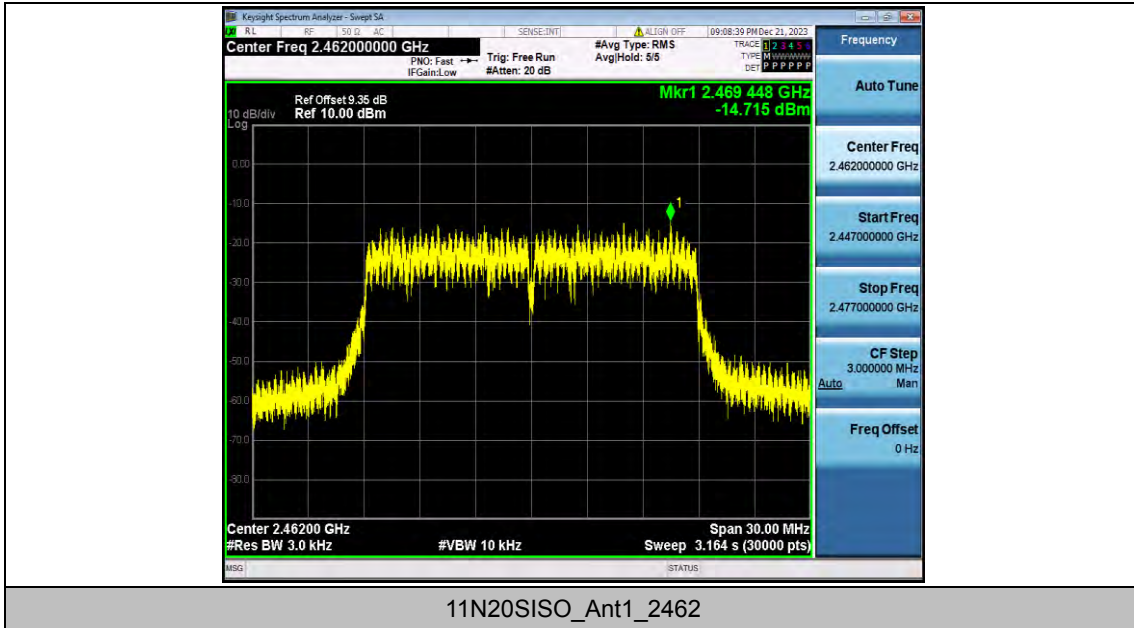
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix B.5: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.79	-29.18	≤-14.21	PASS
		High	2462	6.67	-40.79	≤-13.33	PASS
11G	Ant1	Low	2412	2.11	-27.25	≤-17.89	PASS
		High	2462	2.93	-35.3	≤-17.07	PASS
11N20SISO	Ant1	Low	2412	-1.28	-38.21	≤-21.28	PASS
		High	2462	-0.10	-42.55	≤-20.1	PASS

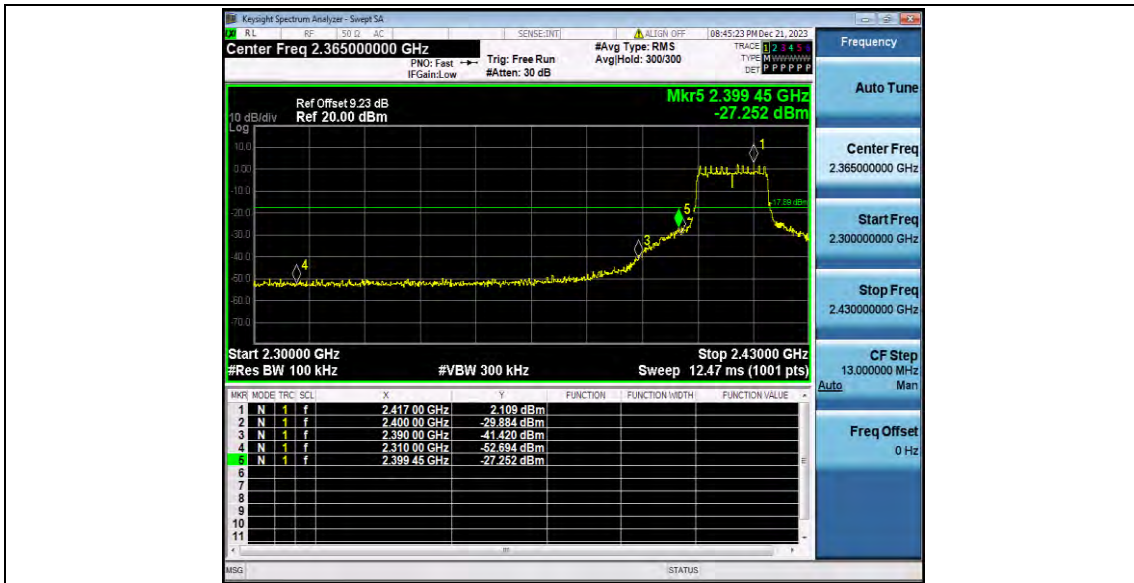
Test Graphs



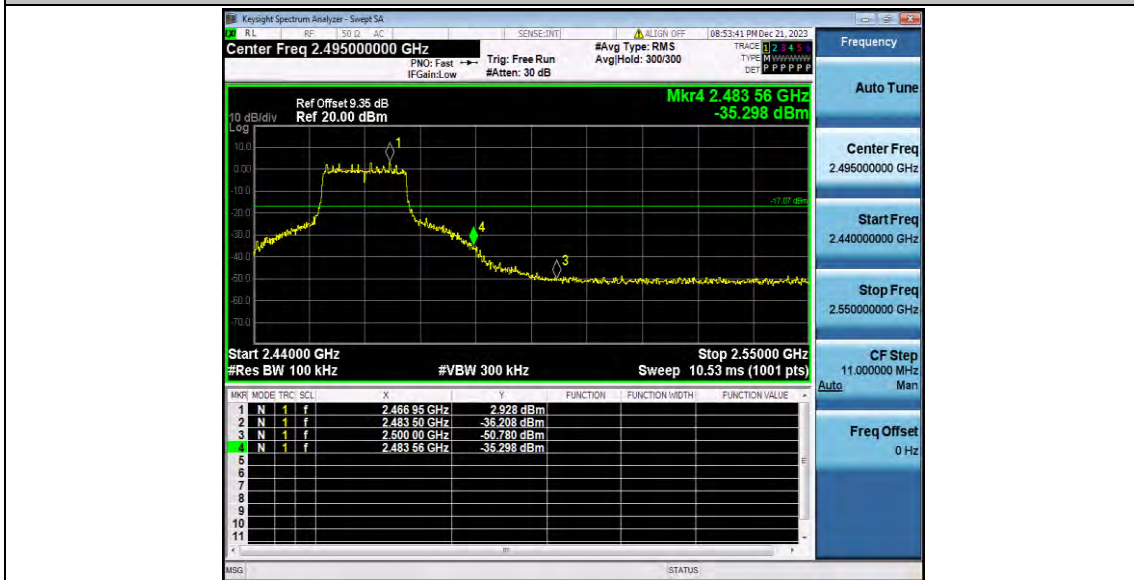
11B_Ant1_Low_2412



11B_Ant1_High_2462



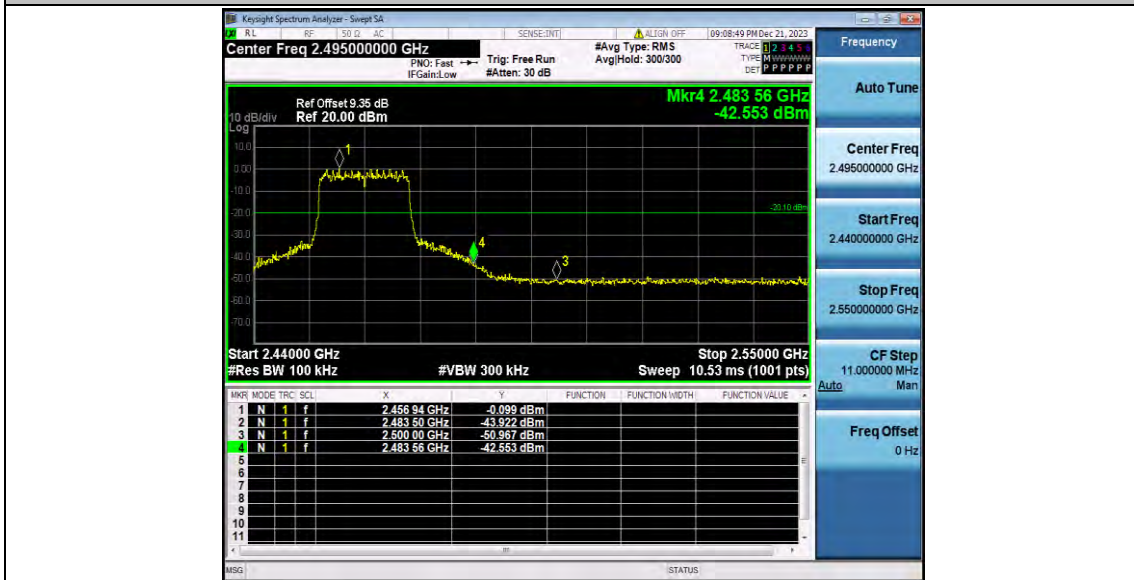
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

Appendix B.6: Conducted Spurious Emission

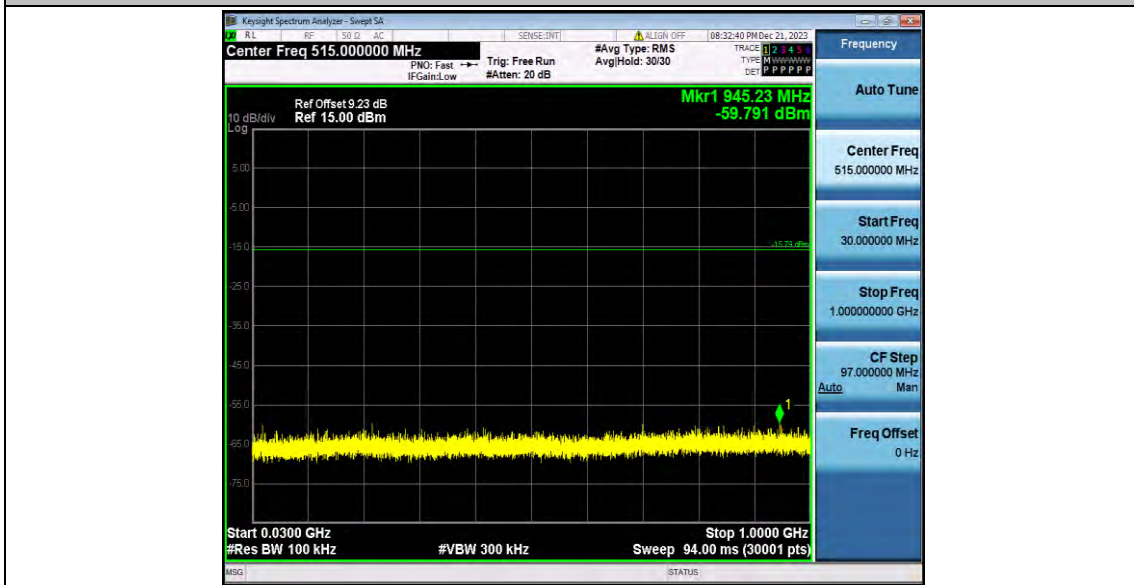
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.21	4.21	---	PASS
			30~1000	4.21	-59.79	≤-15.79	PASS
			1000~26500	4.21	-48.04	≤-15.79	PASS
		2437	Reference	5.31	5.31	---	PASS
			30~1000	5.31	-59.62	≤-14.69	PASS
			1000~26500	5.31	-47.73	≤-14.69	PASS
		2462	Reference	5.27	5.27	---	PASS
			30~1000	5.27	-32.75	≤-14.73	PASS
			1000~26500	5.27	-47.2	≤-14.73	PASS
11G	Ant1	2412	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-60.12	≤-20.81	PASS
			1000~26500	-0.81	-47.73	≤-20.81	PASS
		2437	Reference	1.97	1.97	---	PASS
			30~1000	1.97	-59.29	≤-18.03	PASS
			1000~26500	1.97	-47.93	≤-18.03	PASS
		2462	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-58.28	≤-20.99	PASS
			1000~26500	-0.99	-46.96	≤-20.99	PASS
11N20SISO	Ant1	2412	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-59.88	≤-21.71	PASS
			1000~26500	-1.71	-47.38	≤-21.71	PASS
		2437	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-59.58	≤-20.77	PASS
			1000~26500	-0.77	-41.23	≤-20.77	PASS
		2462	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-59.57	≤-20.21	PASS
			1000~26500	-0.21	-47.69	≤-20.21	PASS

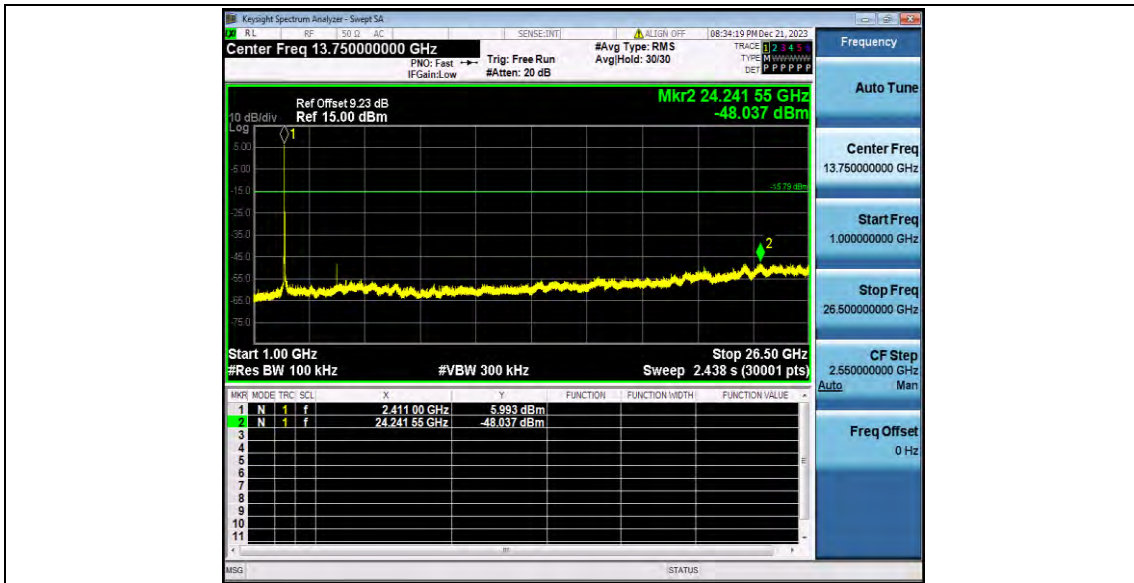
Test Graphs



11B_Ant1_2412_0~Reference



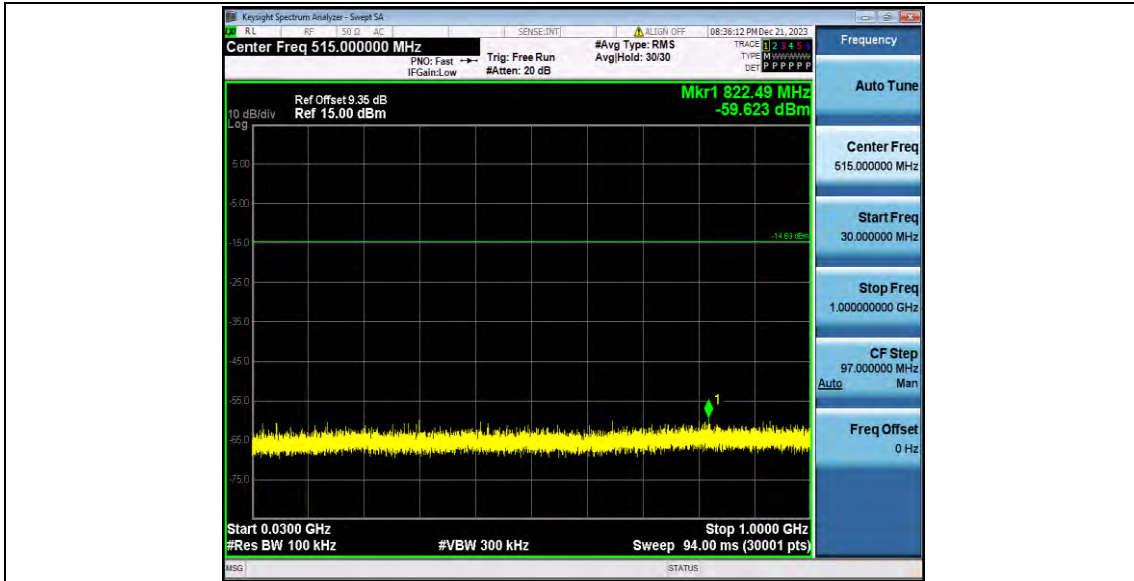
11B_Ant1_2412_30~1000



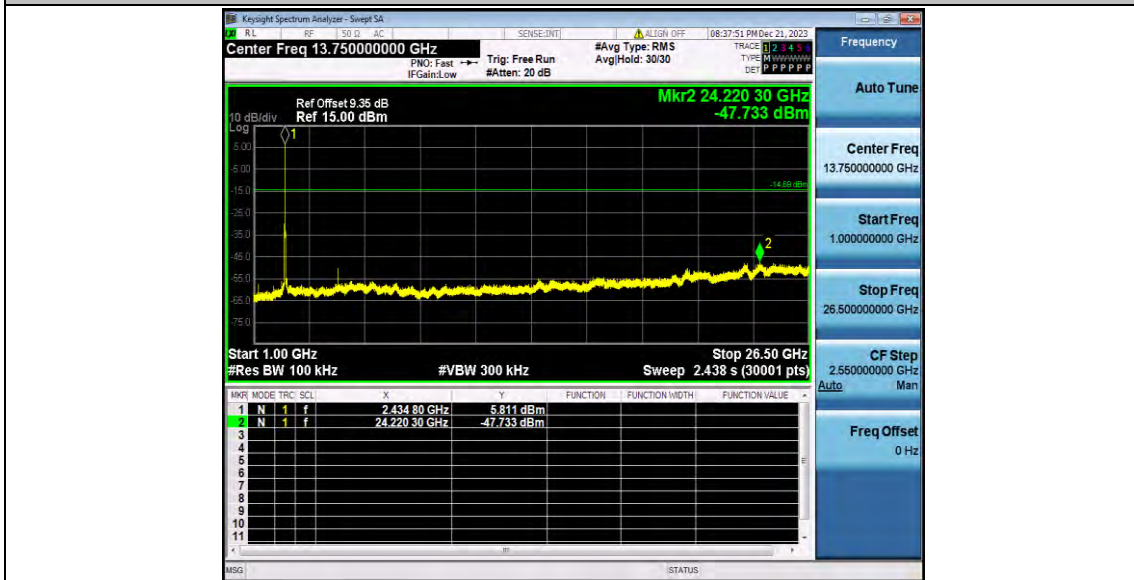
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



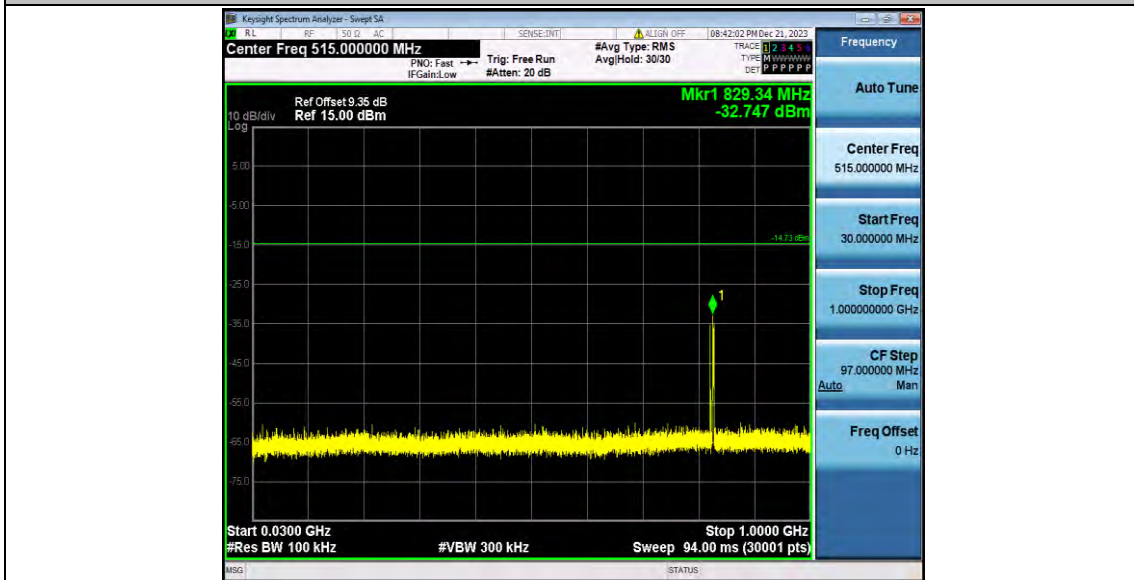
11B_Ant1_2437_30~1000



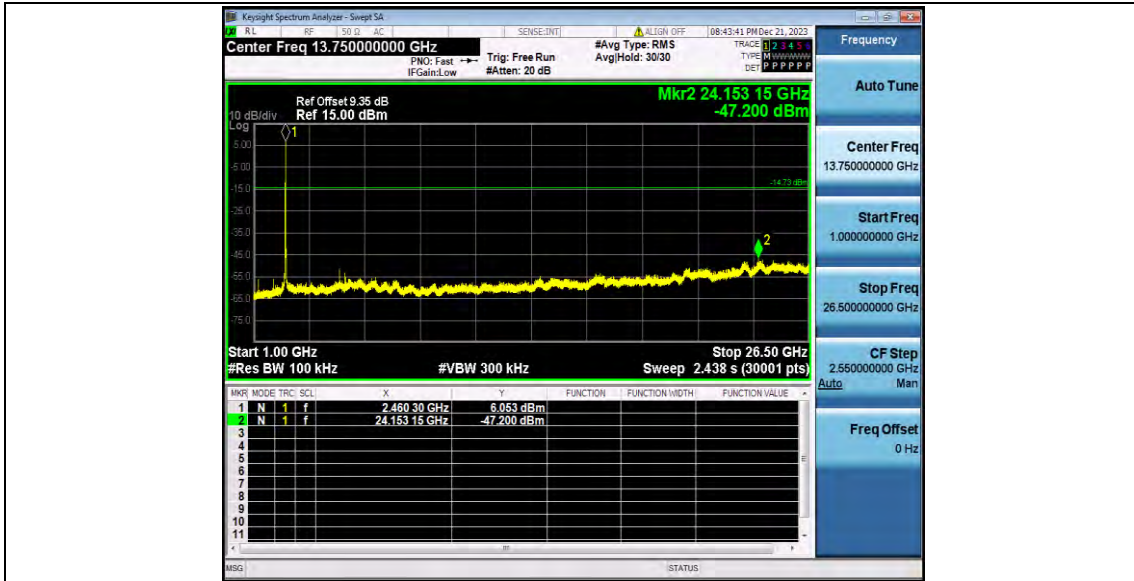
11B_Ant1_2437_1000~26500



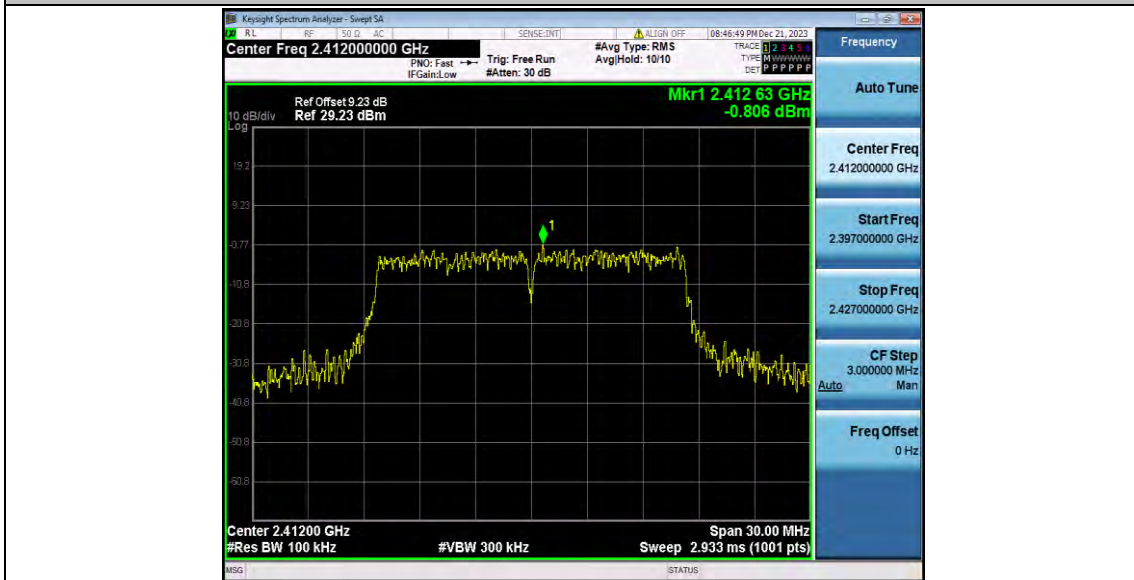
11B_Ant1_2462_0~Reference



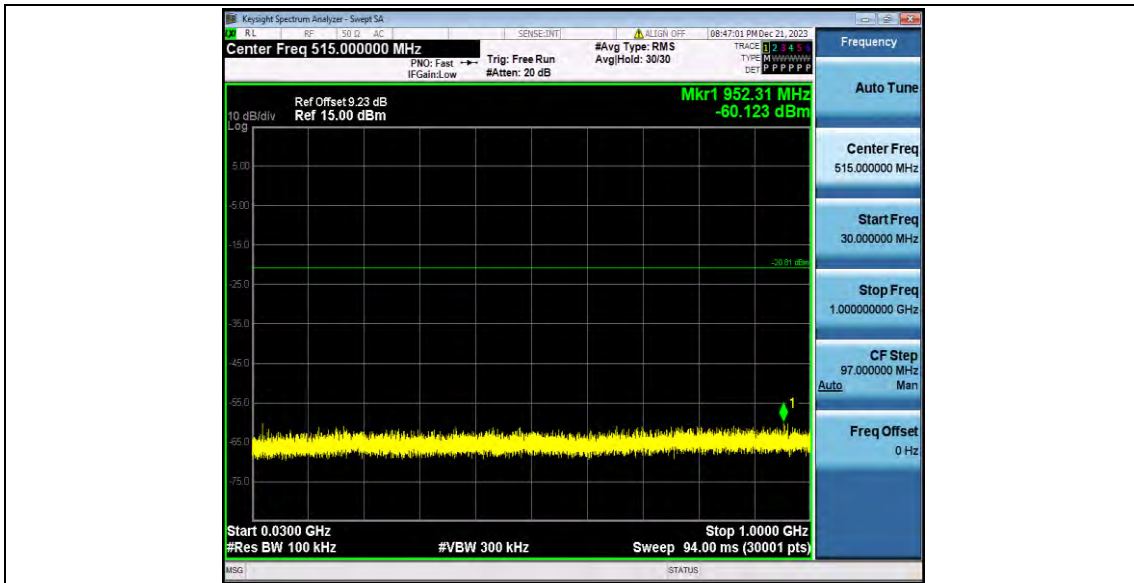
11B_Ant1_2462_30~1000



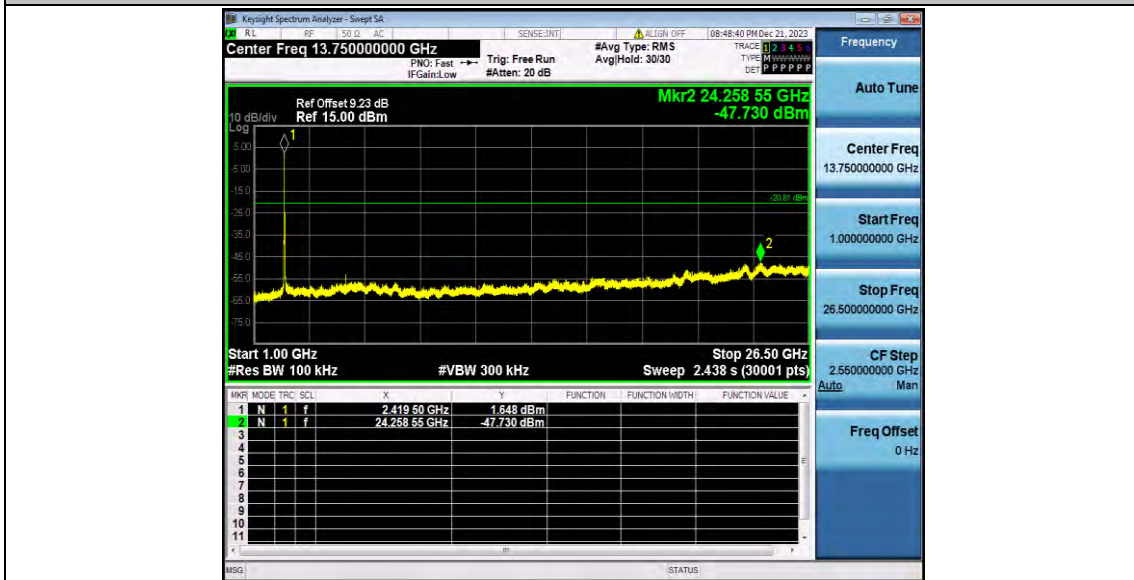
11B_Ant1_2462_1000~26500



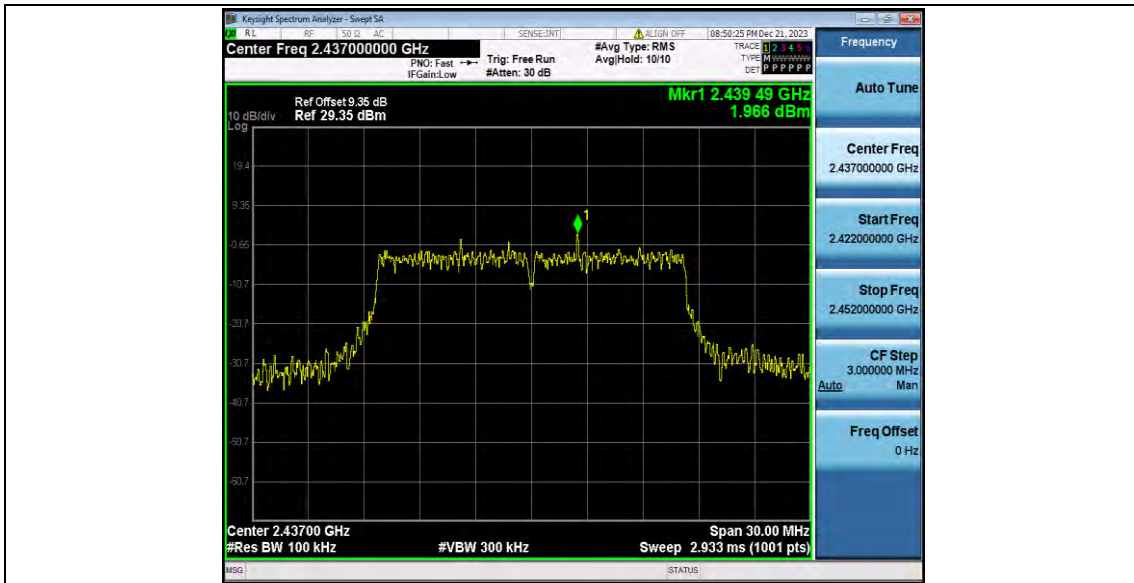
11G_Ant1_2412_0~Reference



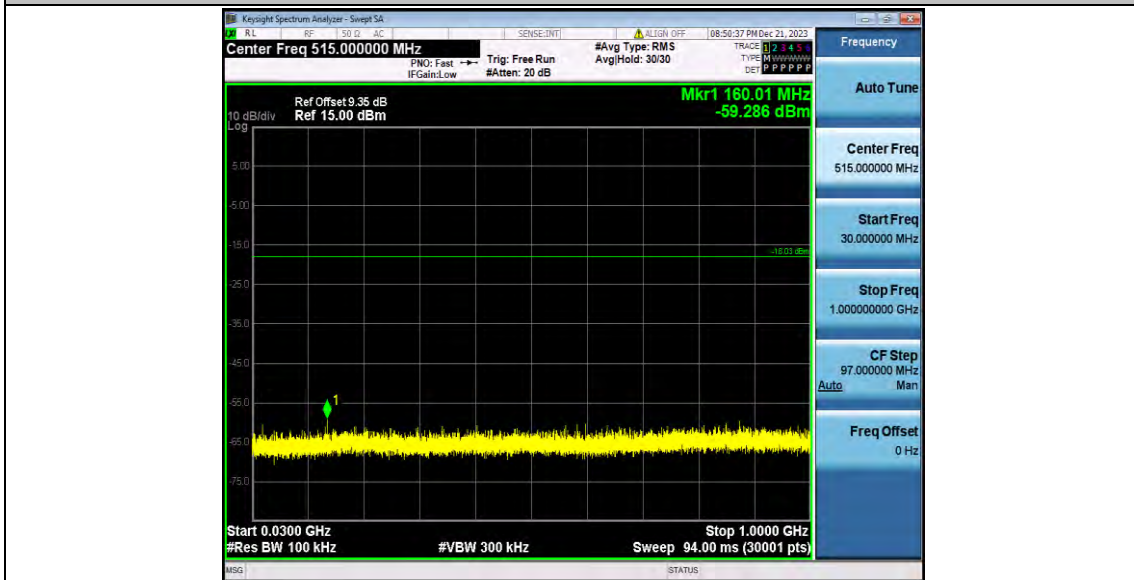
11G_Ant1_2412_30~1000



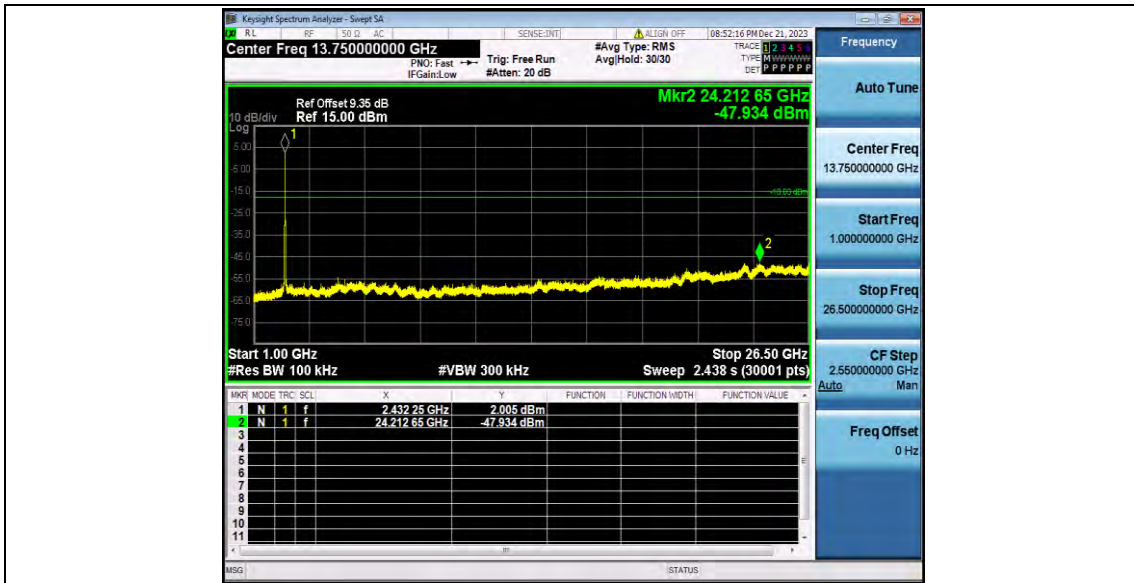
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



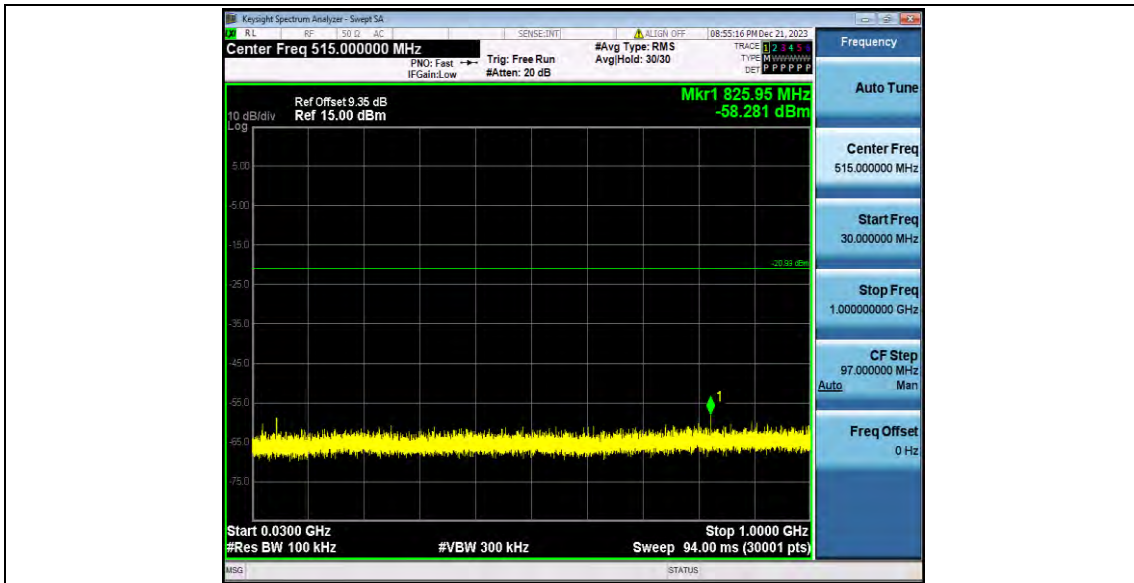
11G_Ant1_2437_30~1000



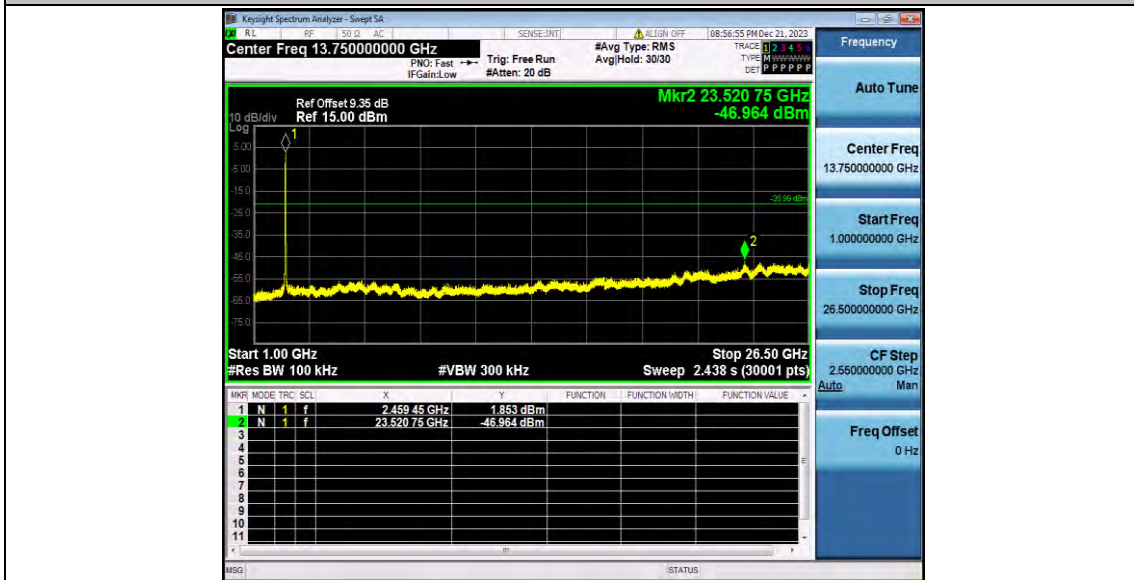
11G_Ant1_2437_1000~26500



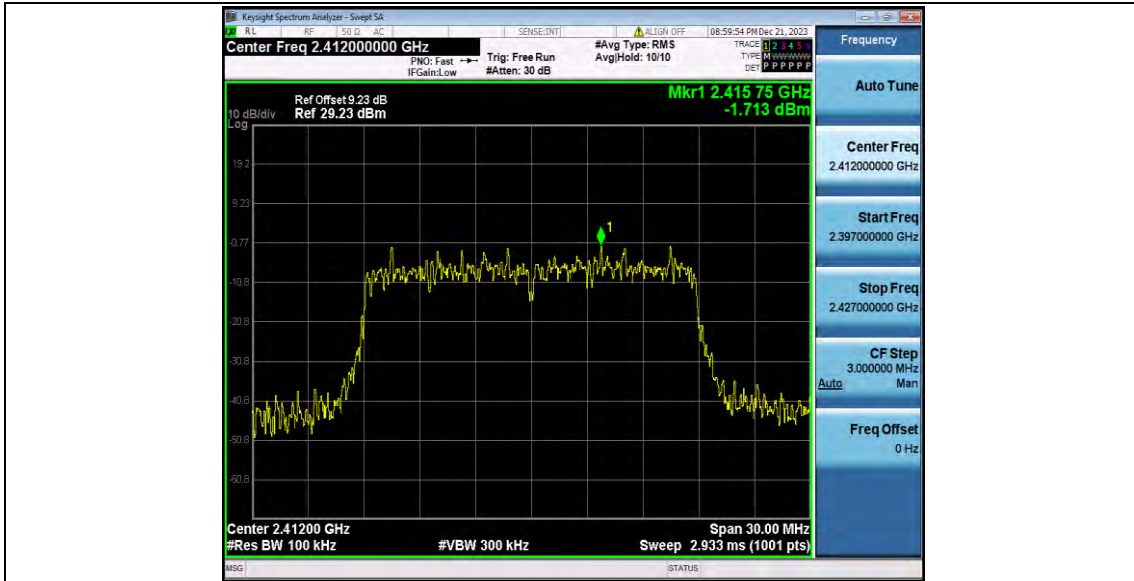
11G_Ant1_2462_0~Reference



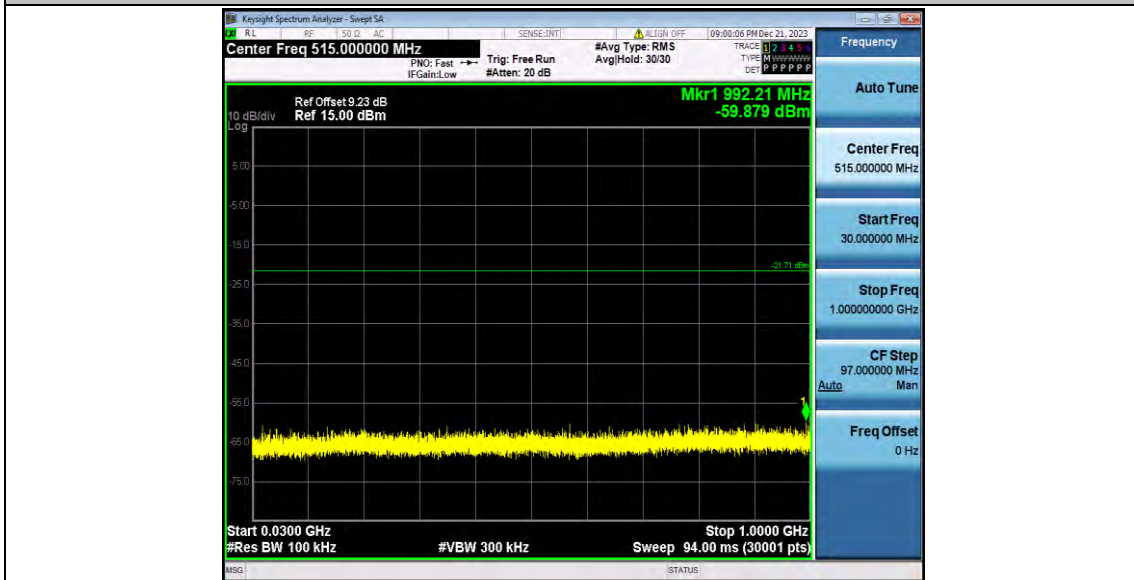
11G_Ant1_2462_30~1000



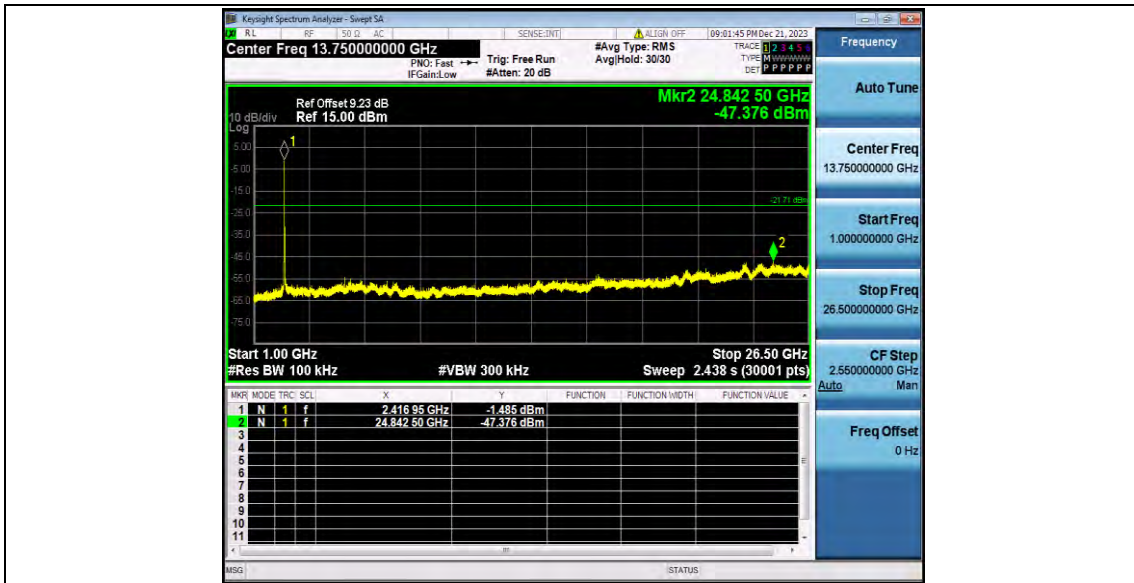
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



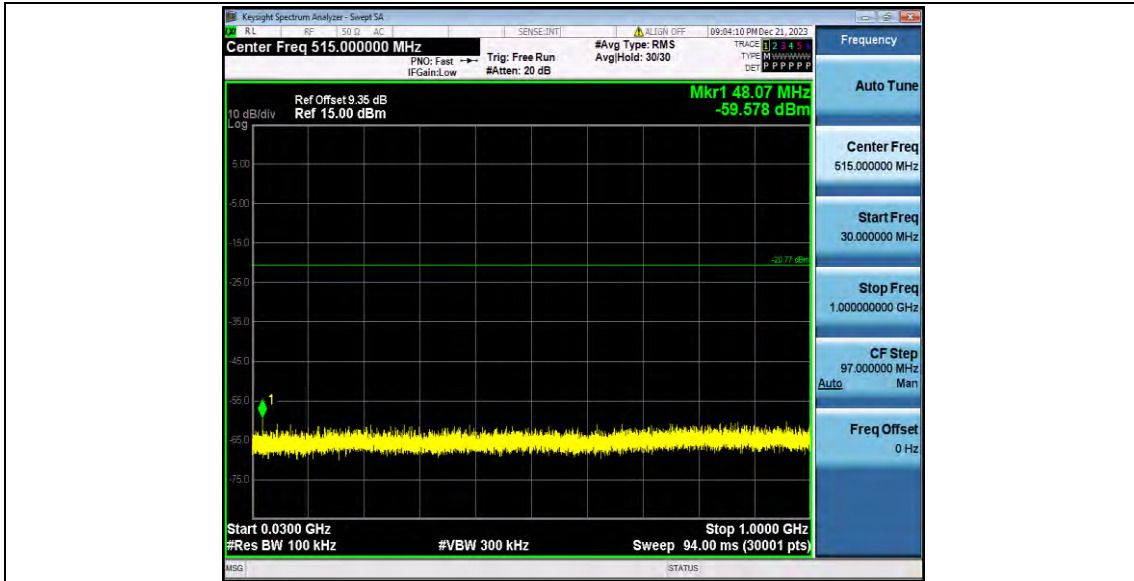
11N20SISO_Ant1_2412_30~1000



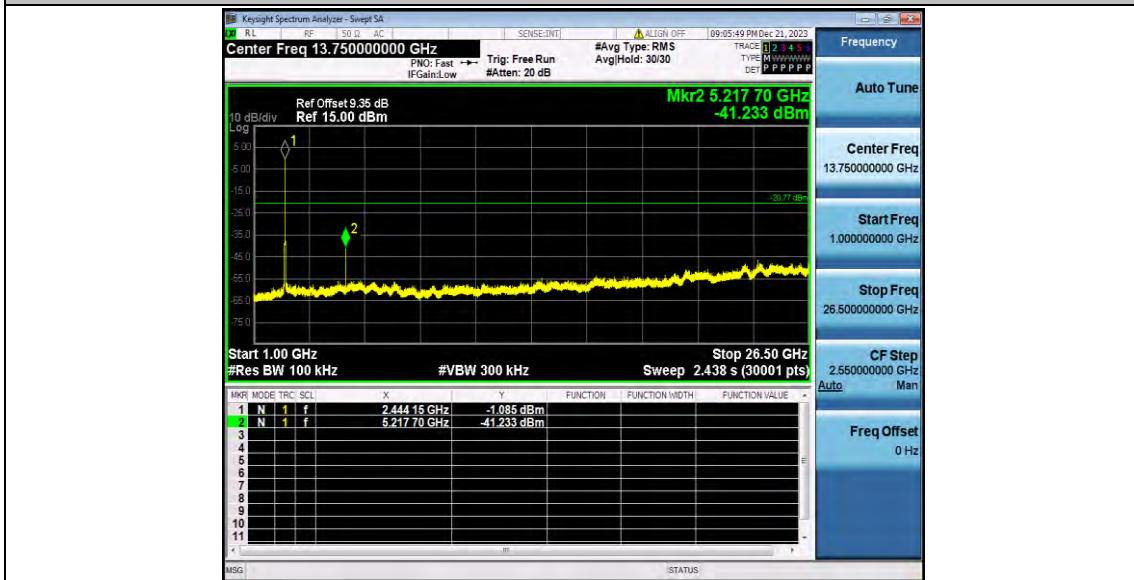
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



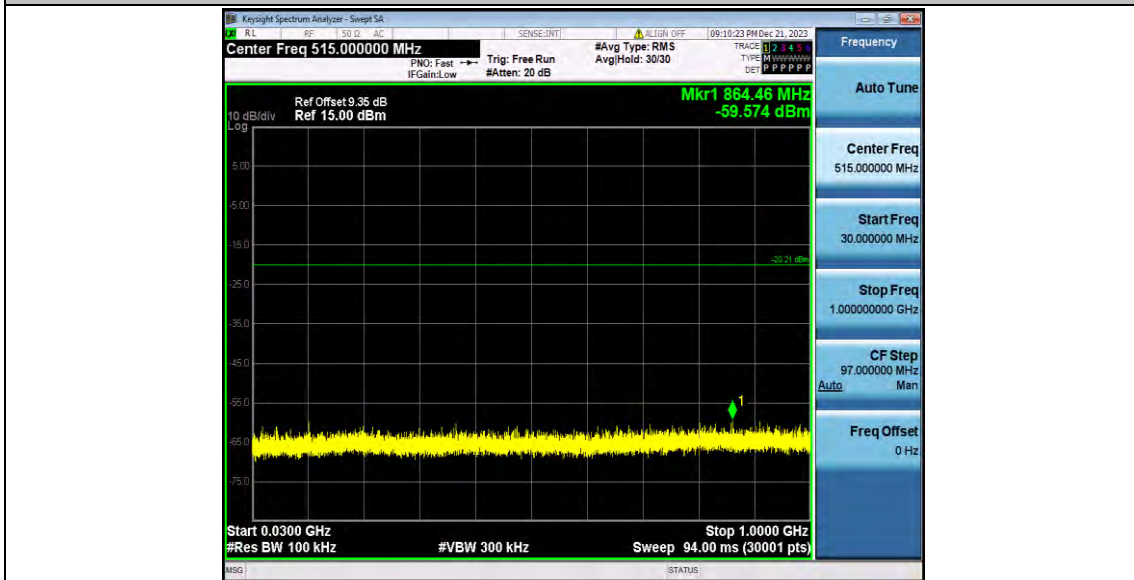
11N20SISO_Ant1_2437_30~1000



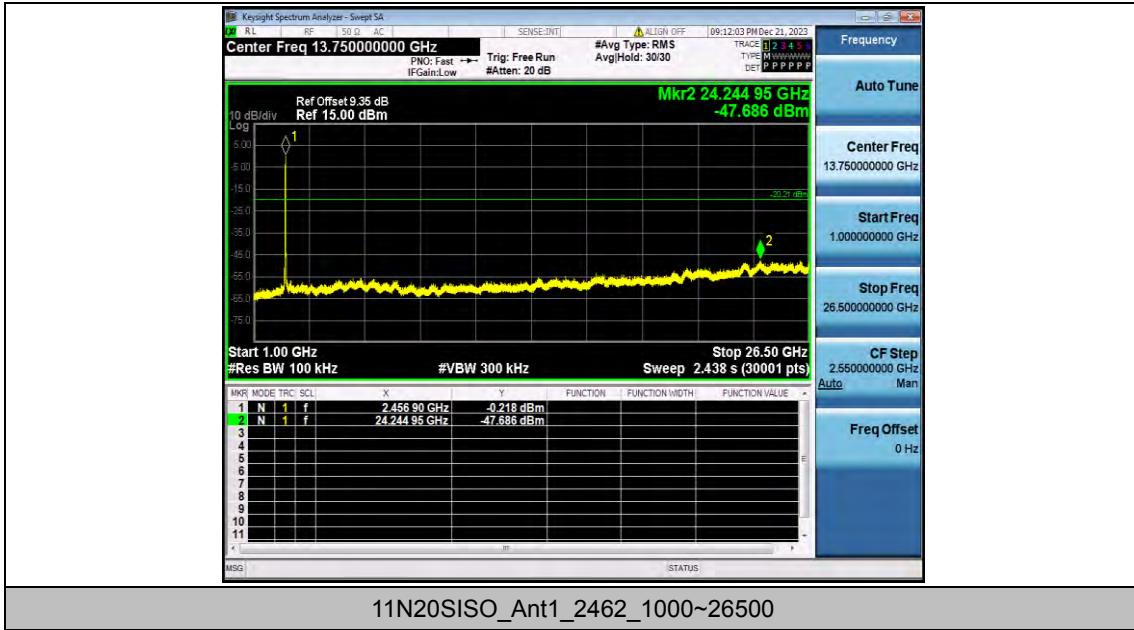
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

Appendix B.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	-49.26	≤-41.20	45.94	≤54	PASS
				AV	2386.840	-42.41	≤-41.20	52.79	≤54	PASS
				AV	2390.000	-43.66	≤-41.20	51.54	≤54	PASS
				Peak	2310.000	-48.15	≤-21.20	47.05	≤74	PASS
				Peak	2386.710	-37.37	≤-21.20	57.83	≤74	PASS
				Peak	2390.000	-42.42	≤-21.20	52.78	≤74	PASS
		High	2462	AV	2483.500	-45.64	≤-41.20	49.56	≤54	PASS
				AV	2486.970	-44.32	≤-41.20	50.88	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-39.71	≤-21.20	55.49	≤74	PASS
				Peak	2486.860	-38.95	≤-21.20	56.25	≤74	PASS
				Peak	2500.000	-43.06	≤-21.20	52.14	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.55	≤-41.20	45.65	≤54	PASS
				AV	2389.960	-41.76	≤-41.20	53.44	≤54	PASS
				AV	2390.000	-41.76	≤-41.20	53.44	≤54	PASS
				Peak	2310.000	-47.81	≤-21.20	47.39	≤74	PASS
				Peak	2389.960	-32.52	≤-21.20	62.68	≤74	PASS
				Peak	2390.000	-32.52	≤-21.20	62.68	≤74	PASS
		High	2462	AV	2483.500	-42.19	≤-41.20	53.01	≤54	PASS
				AV	2483.560	-42.37	≤-41.20	52.83	≤54	PASS
				AV	2500.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2483.500	-34.39	≤-21.20	60.81	≤74	PASS
				Peak	2483.670	-31.21	≤-21.20	63.99	≤74	PASS
				Peak	2500.000	-46.93	≤-21.20	48.27	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2389.960	-45.62	≤-41.20	49.58	≤54	PASS
				AV	2390.000	-45.62	≤-41.20	49.58	≤54	PASS
				Peak	2310.000	-47.74	≤-21.20	47.46	≤74	PASS
				Peak	2384.370	-37.55	≤-21.20	57.65	≤74	PASS
				Peak	2390.000	-43.76	≤-21.20	51.44	≤74	PASS
		High	2462	AV	2483.500	-41.5	≤-41.20	53.70	≤54	PASS
				AV	2483.560	-41.65	≤-41.20	53.55	≤54	PASS
				AV	2500.000	-48.21	≤-41.20	46.99	≤54	PASS
				Peak	2483.500	-42.16	≤-21.20	53.04	≤74	PASS
				Peak	2485.650	-36.95	≤-21.20	58.25	≤74	PASS
				Peak	2485.650	-36.95	≤-21.20	58.25	≤74	PASS

				Peak	2500.000	-39.24	≤-21.20	55.96	≤74	PASS
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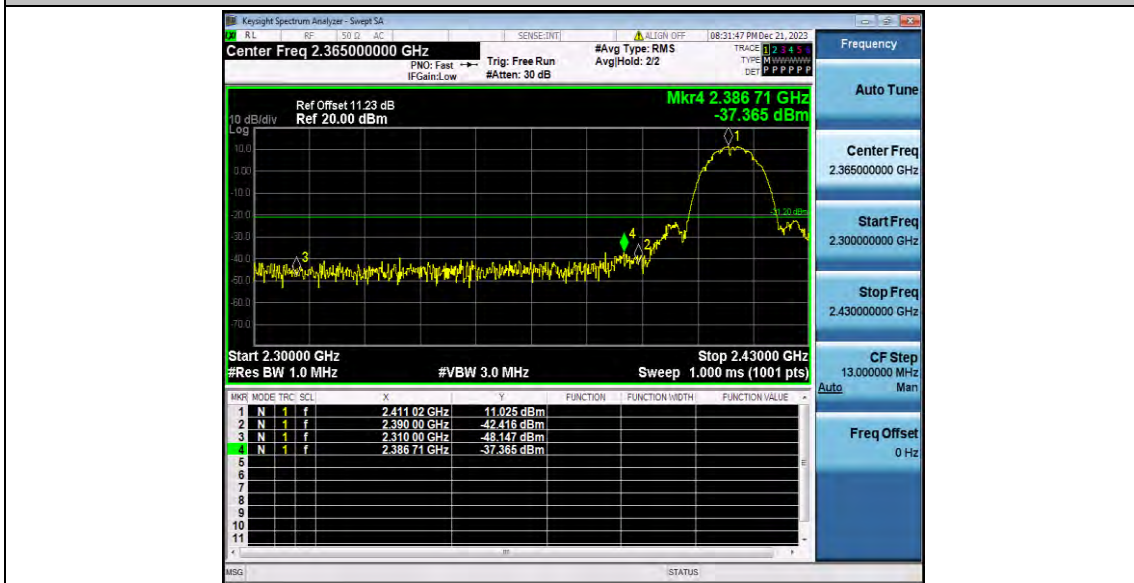
Note:

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



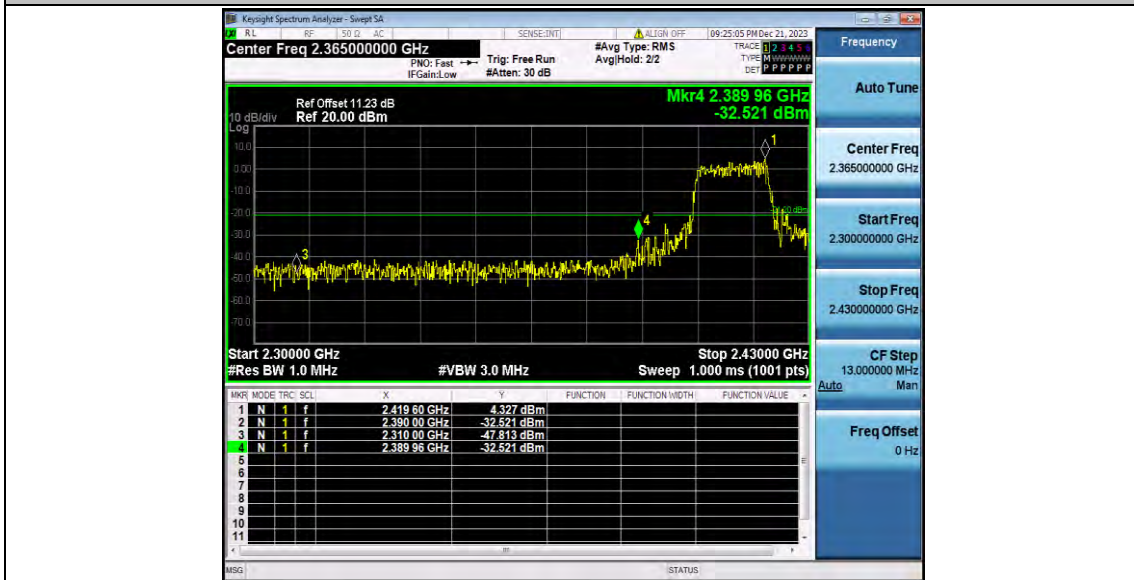
11B_Ant1_High_2462_AV



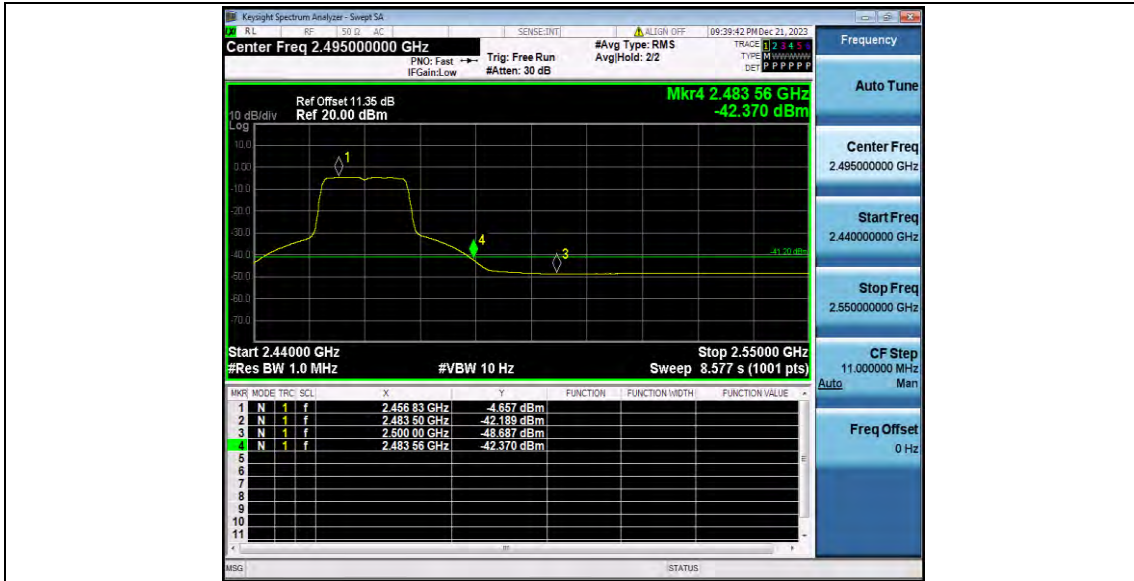
11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



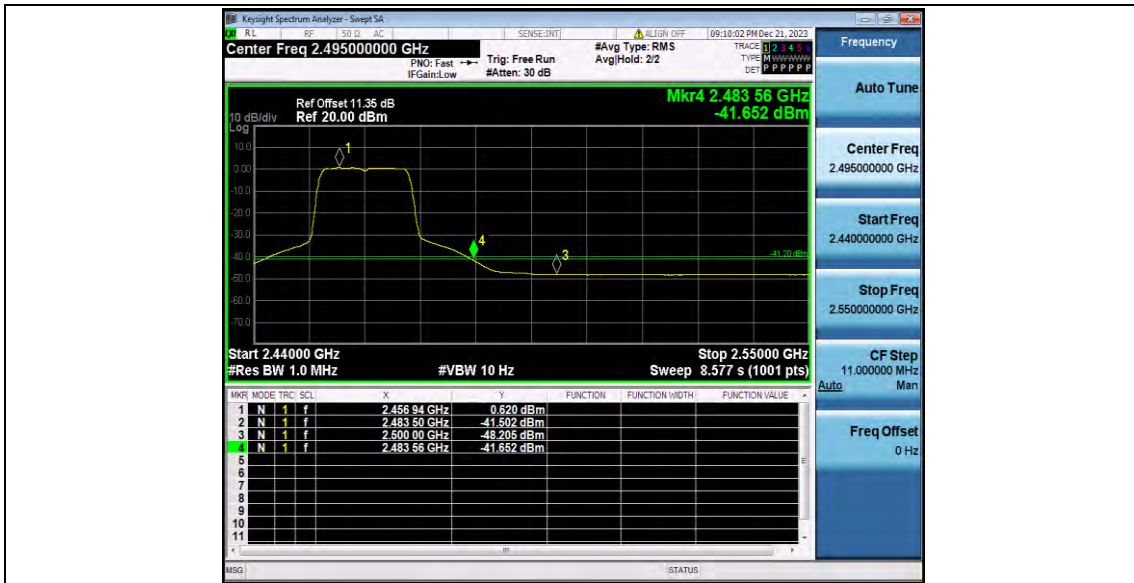
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak