

Appendix: 2.4G WIFI

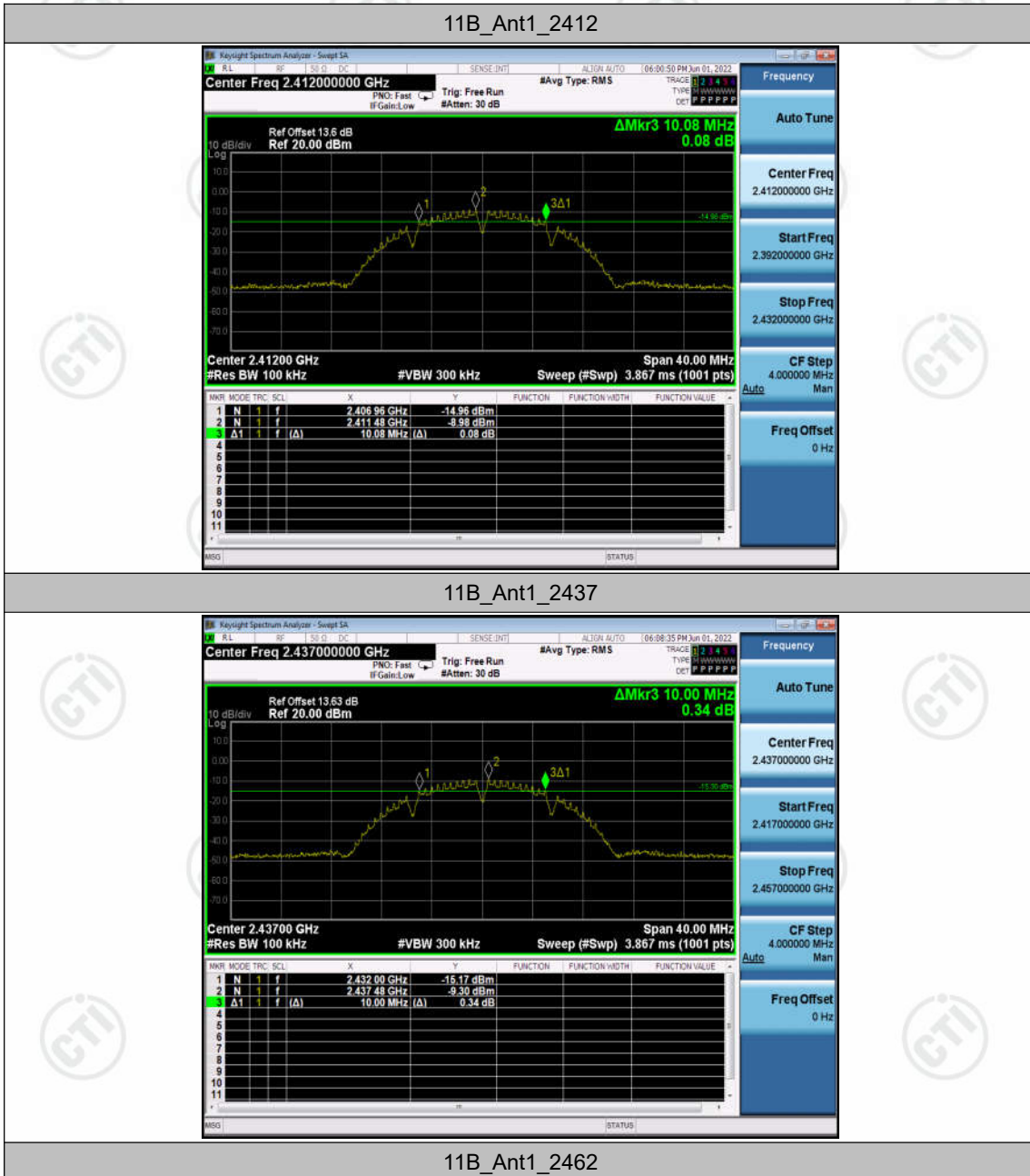
Contents

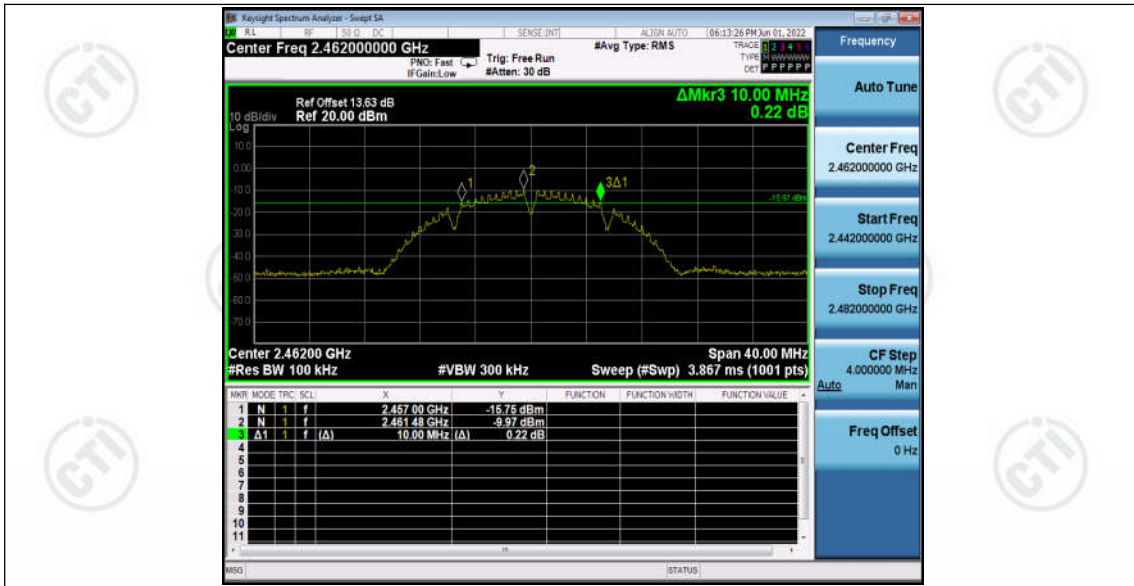
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Appendix A: DTS Bandwidth**Test Result**

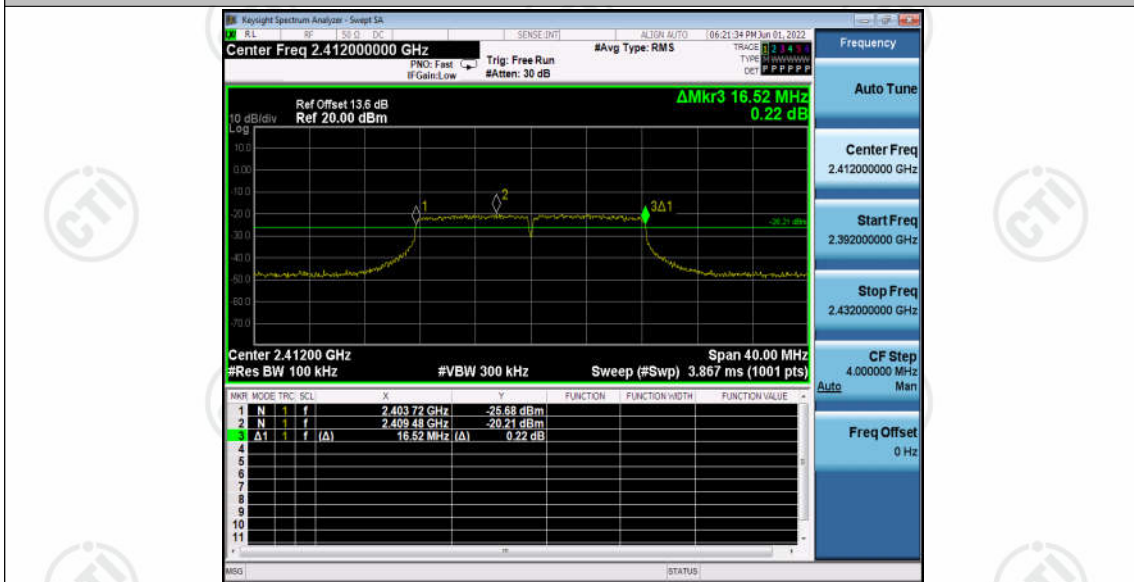
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.000	2432.000	2442.000	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.520	2403.720	2420.240	0.5	PASS
		2437	16.520	2428.720	2445.240	0.5	PASS
		2462	16.520	2453.720	2470.240	0.5	PASS
11N20SI SO	Ant1	2412	17.760	2403.120	2420.880	0.5	PASS
		2437	17.680	2428.160	2445.840	0.5	PASS
		2462	17.680	2453.120	2470.800	0.5	PASS

Test Graphs

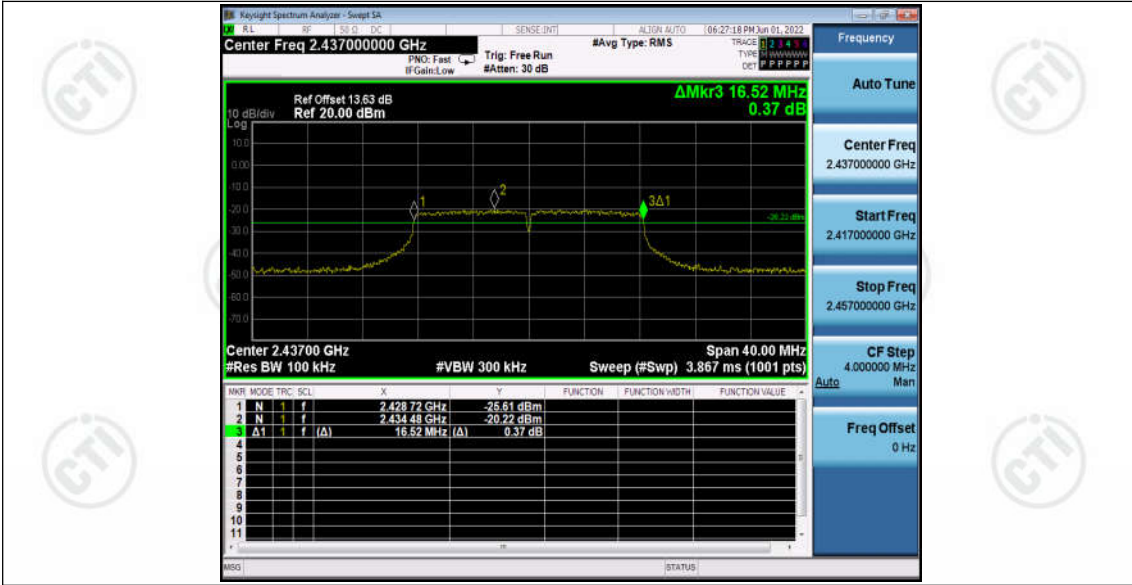




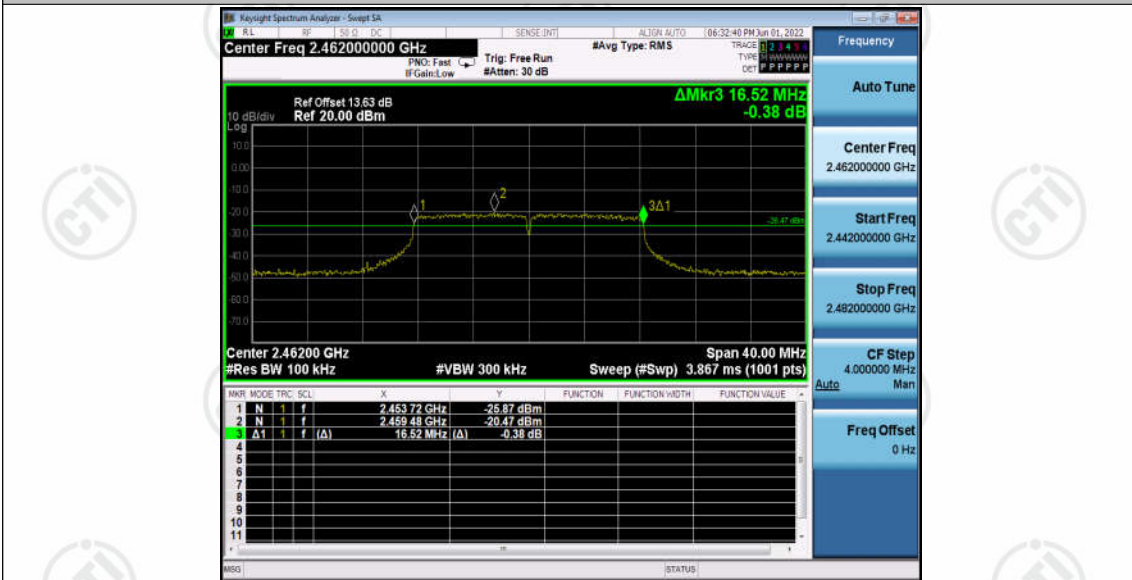
11G_Ant1_2412



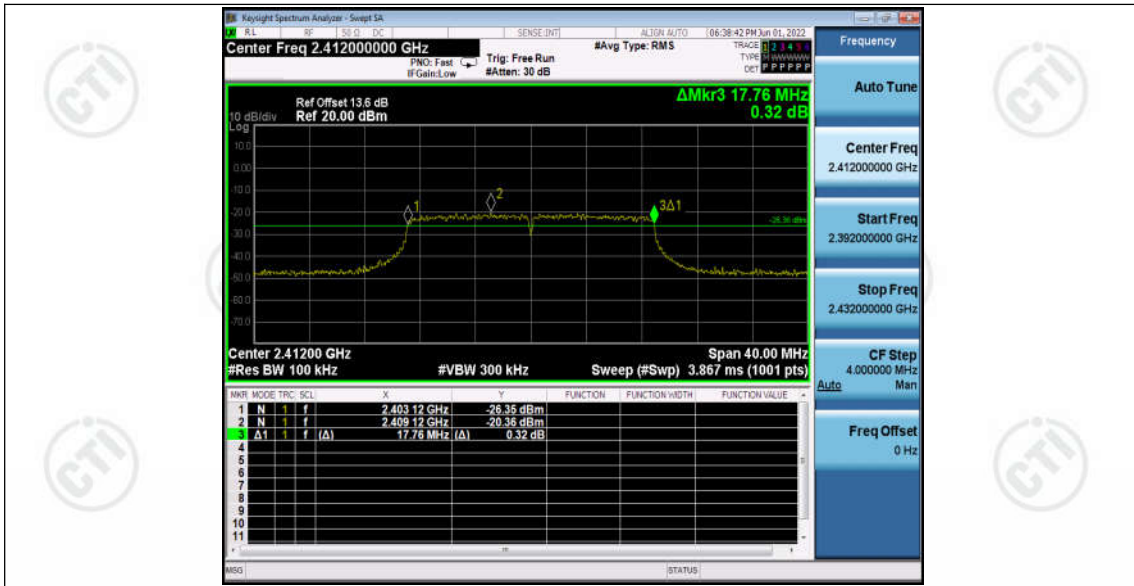
11G_Ant1_2437



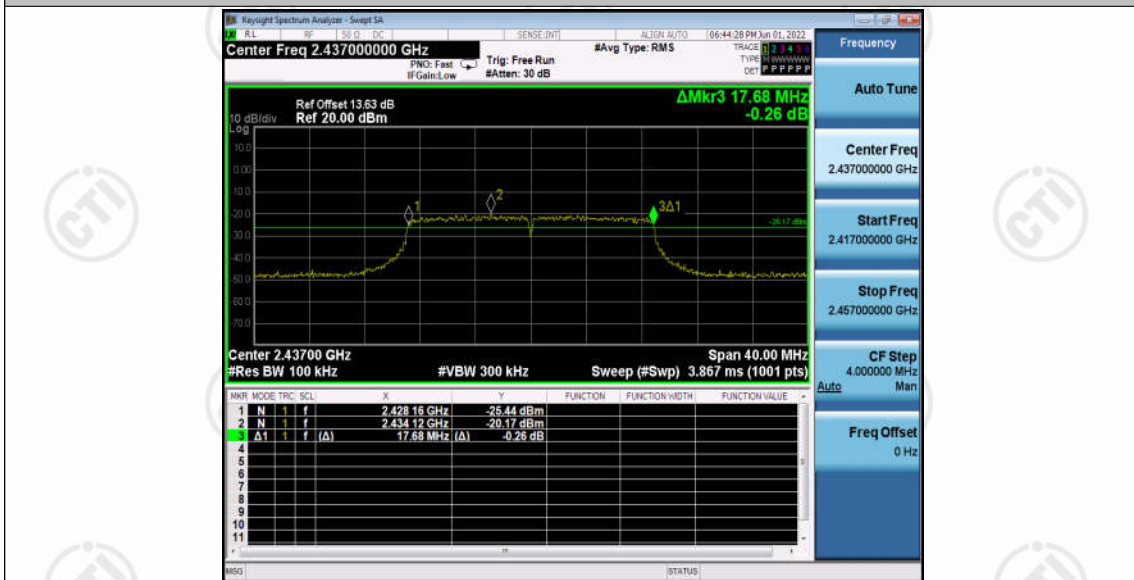
11G_Ant1_2462



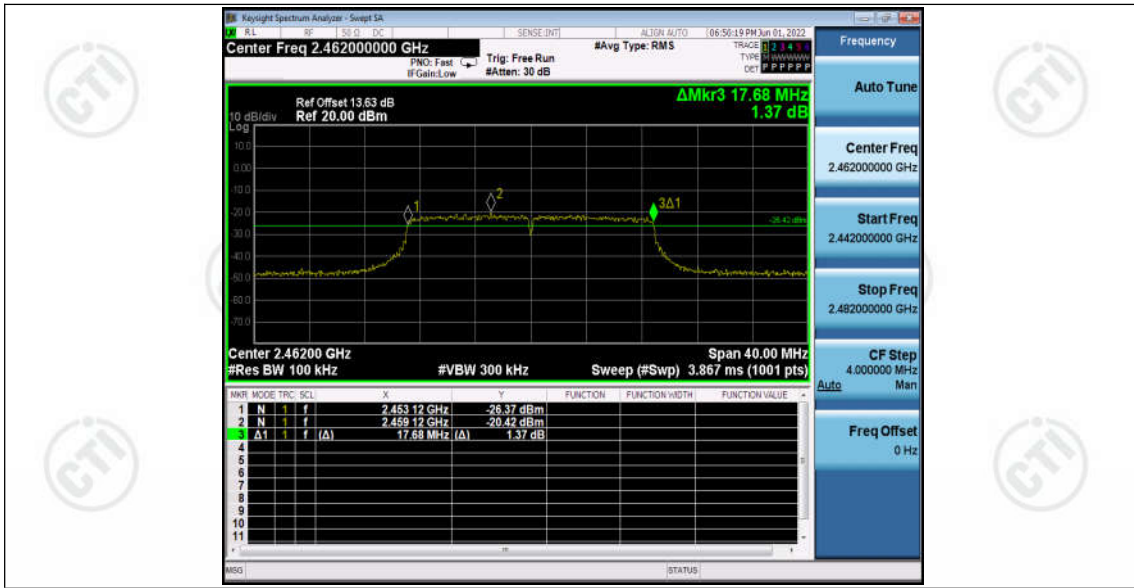
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



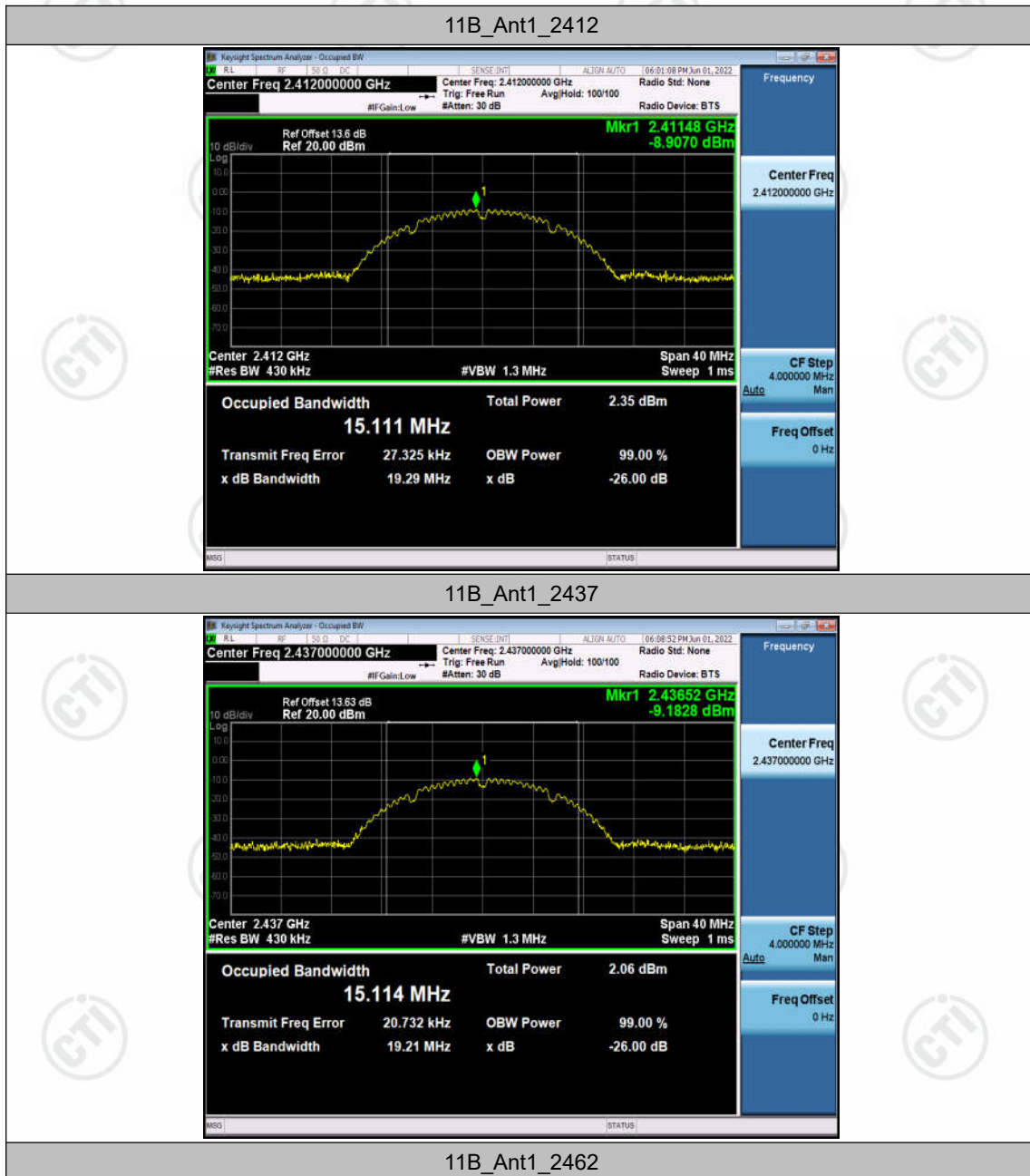
11N20SISO_Ant1_2462



Appendix B: Occupied Channel Bandwidth**Test Result**

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.111	2404.472	2419.583	---	---
		2437	15.114	2429.464	2444.578	---	---
		2462	15.140	2454.419	2469.559	---	---
11G	Ant1	2412	17.092	2403.428	2420.520	---	---
		2437	17.082	2428.413	2445.495	---	---
		2462	17.184	2453.329	2470.513	---	---
11N20SI SO	Ant1	2412	18.195	2402.888	2421.083	---	---
		2437	18.237	2427.864	2446.101	---	---
		2462	18.220	2452.870	2471.090	---	---

Test Graphs

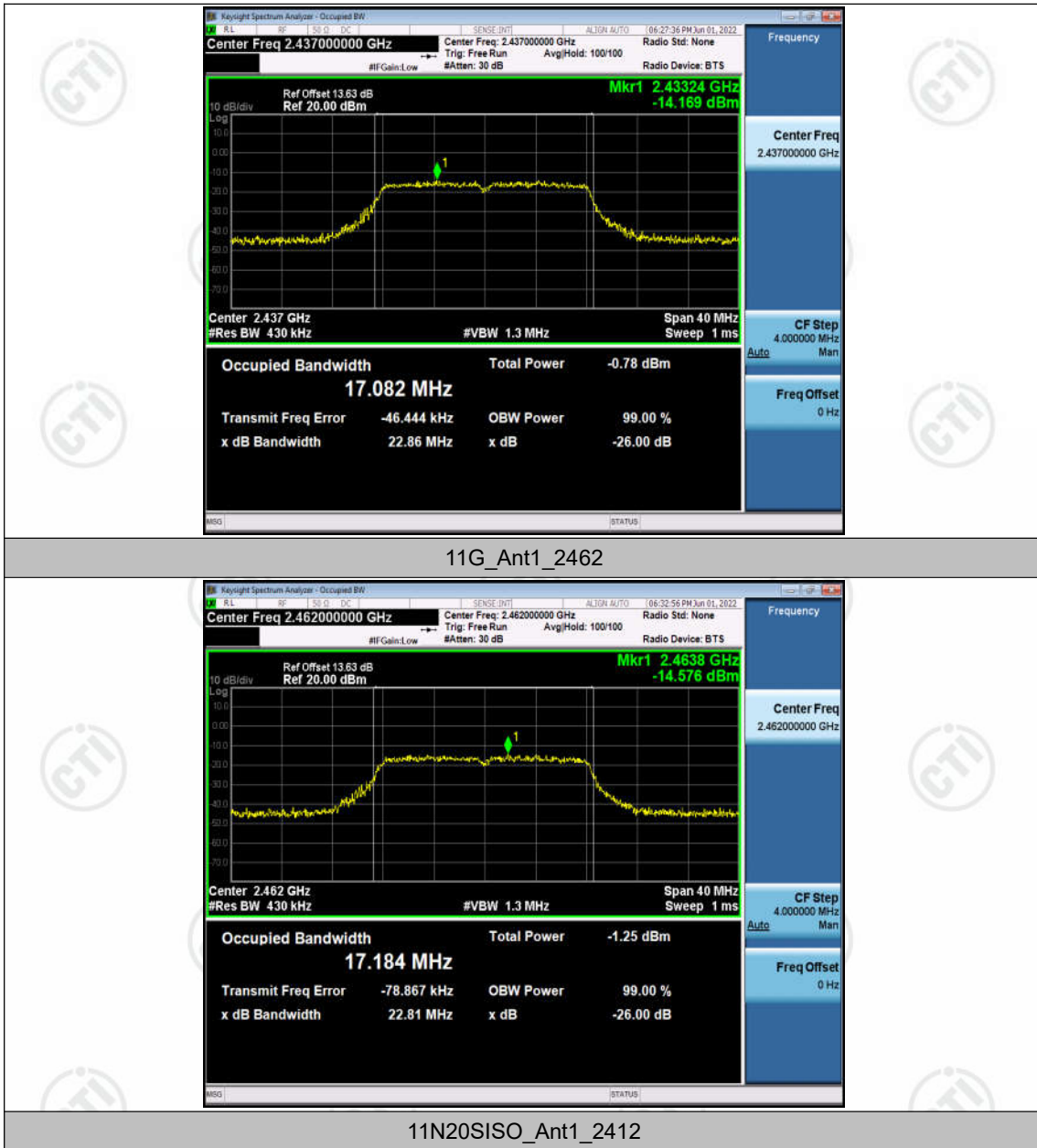


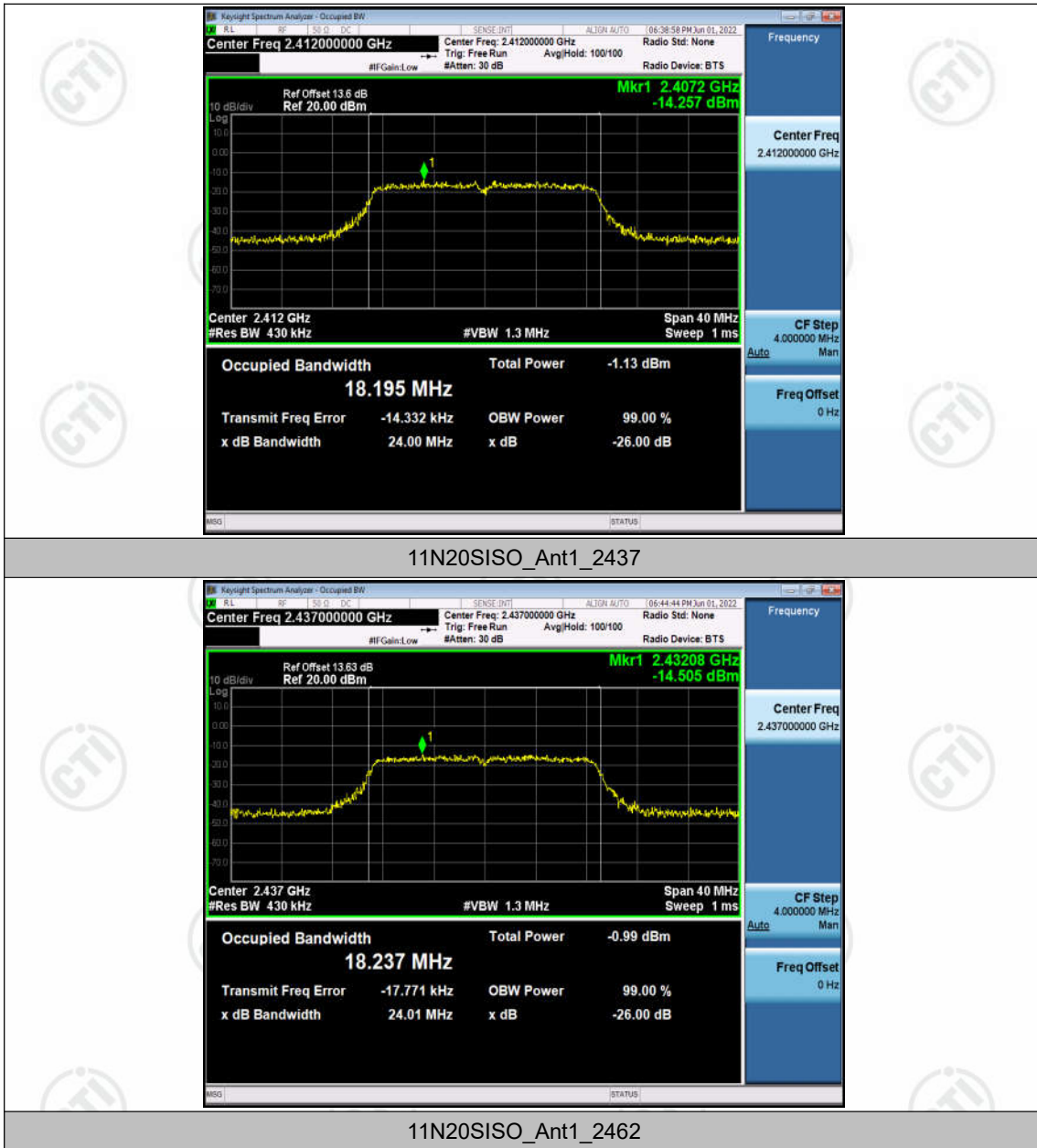


11G_Ant1_2412



11G_Ant1_2437







Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Set Power	Peak Power [dBm]	Conducted Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	---	1.90	≤30.00	4.90	≤36.00	PASS
		2437	---	1.99	≤30.00	4.99	≤36.00	PASS
		2462	---	1.43	≤30.00	4.43	≤36.00	PASS
11G	Ant1	2412	---	-0.04	≤30.00	2.96	≤36.00	PASS
		2437	---	-0.03	≤30.00	2.97	≤36.00	PASS
		2462	---	-0.45	≤30.00	2.55	≤36.00	PASS
11N20SIS O	Ant1	2412	---	0.01	≤30.00	3.01	≤36.00	PASS
		2437	---	0.13	≤30.00	3.13	≤36.00	PASS
		2462	---	-0.33	≤30.00	2.67	≤36.00	PASS

Appendix D: Maximum power spectral density**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-22.68	≤8.00	PASS
		2437	-22.86	≤8.00	PASS
		2462	-24	≤8.00	PASS
11G	Ant1	2412	-34.52	≤8.00	PASS
		2437	-34.44	≤8.00	PASS
		2462	-34.97	≤8.00	PASS
11N20SISO	Ant1	2412	-34.69	≤8.00	PASS
		2437	-34.58	≤8.00	PASS
		2462	-34.81	≤8.00	PASS

Test Graphs

11B_Ant1_2412



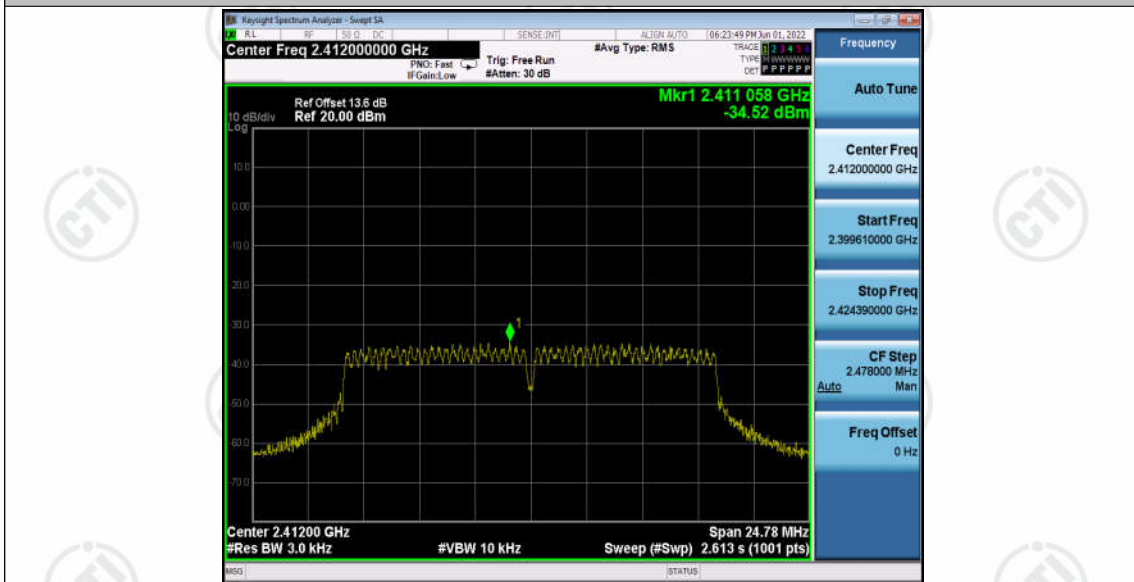
11B_Ant1_2437



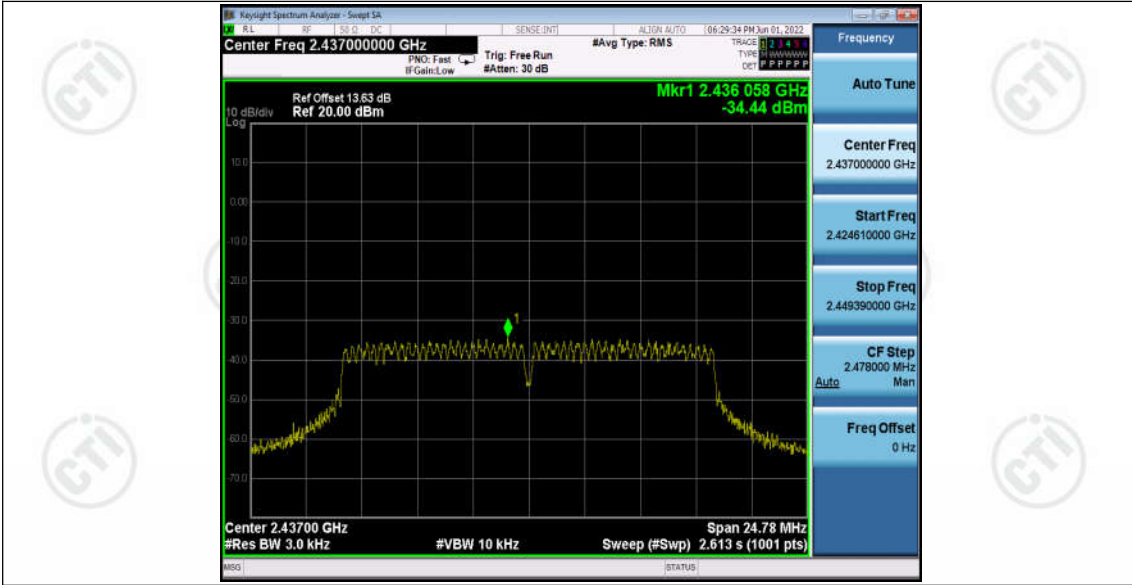
11B_Ant1_2462



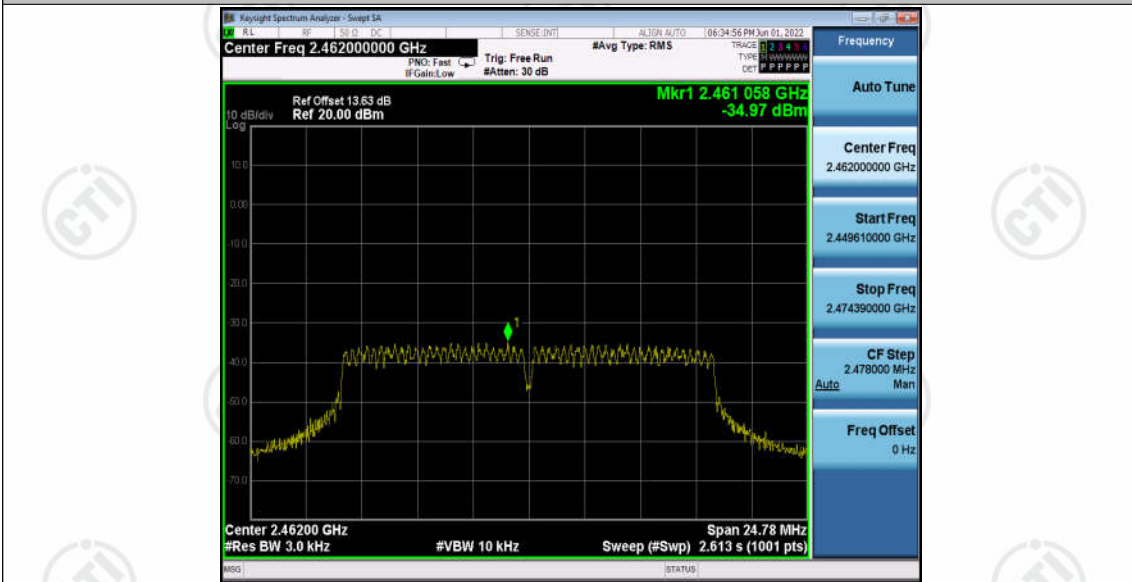
11G_Ant1_2412



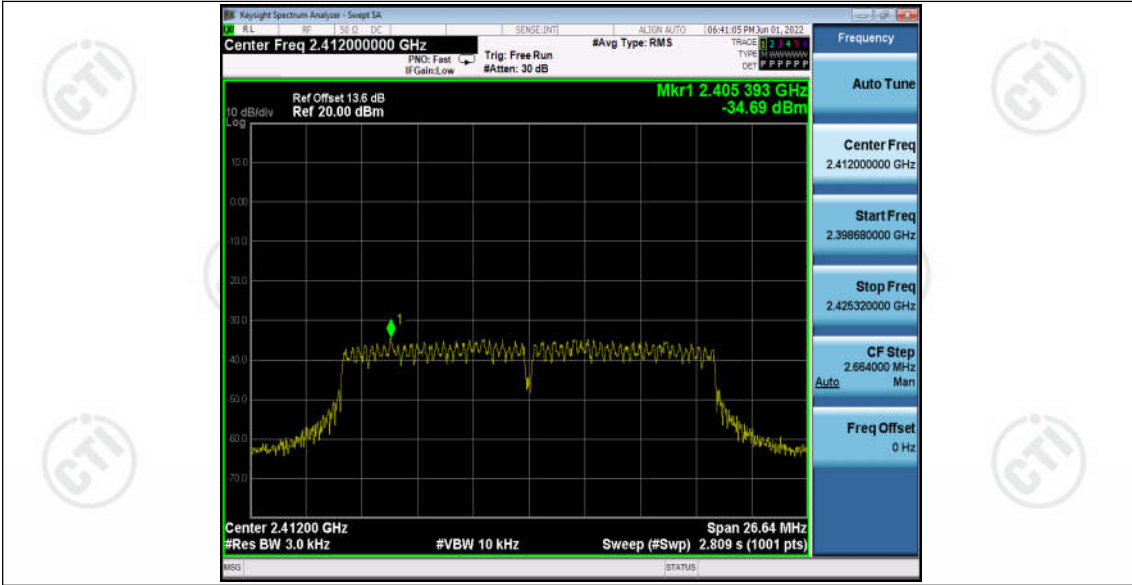
11G_Ant1_2437



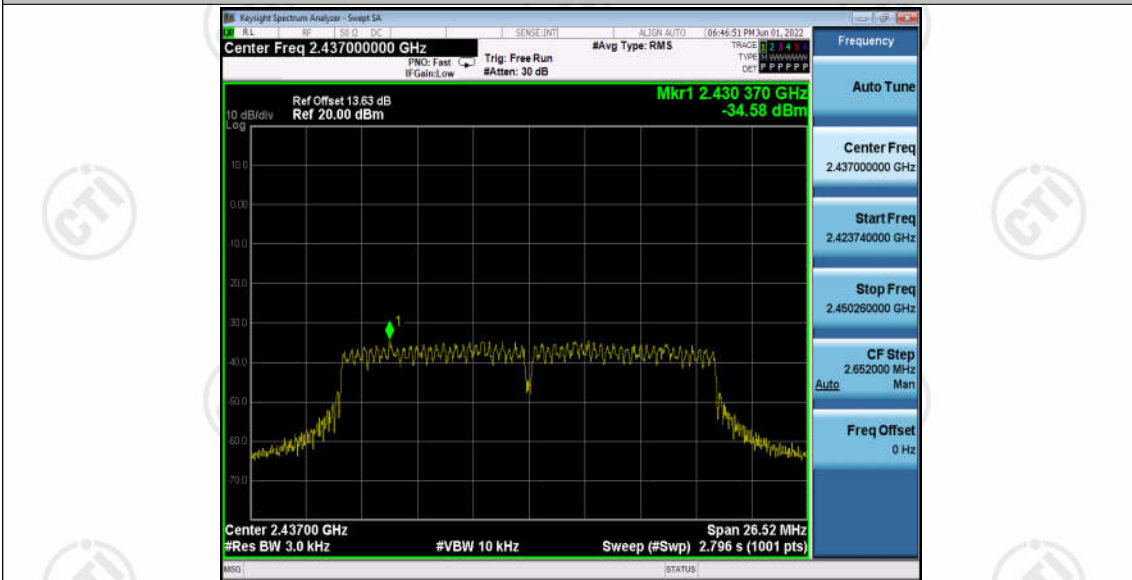
11G_Ant1_2462



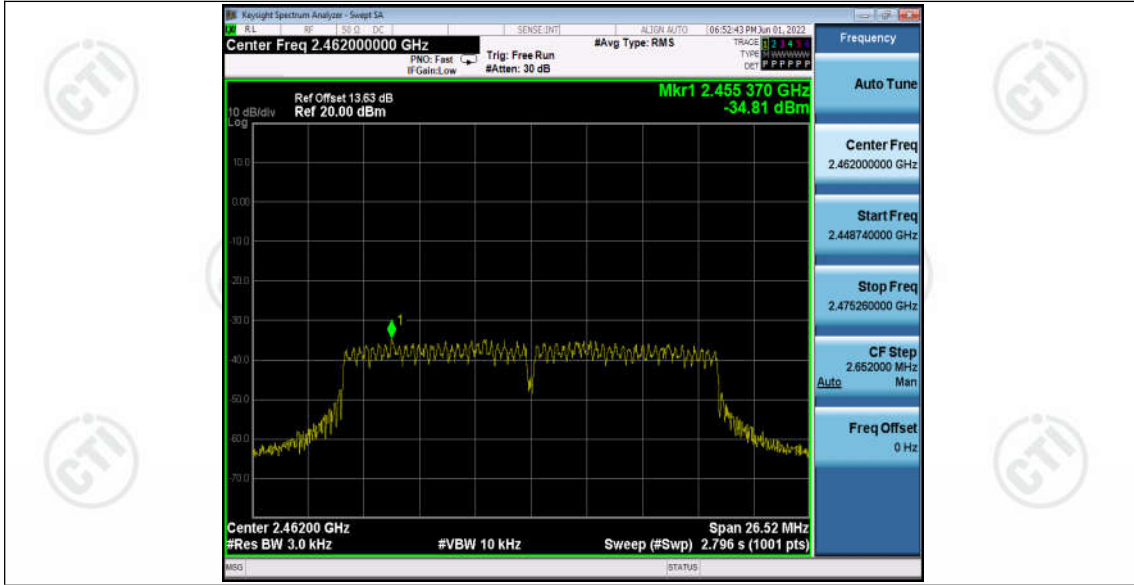
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix E: Reference level measurement**Test Result**

Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2411.49	-11.58
		2437	2437.50	-11.48
		2462	2461.49	-11.84
11G	Ant1	2412	2409.50	-20.77
		2437	2434.47	-20.76
		2462	2459.50	-20.93
11N20SISO	Ant1	2412	2409.12	-20.47
		2437	2434.11	-20.54
		2462	2459.11	-20.68

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



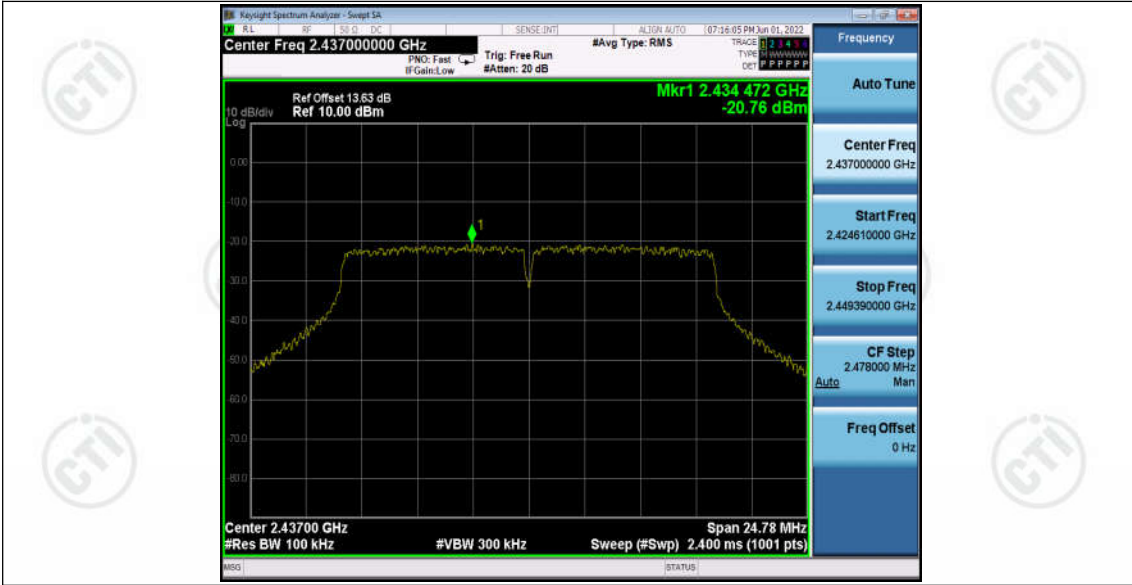
11B_Ant1_2462



11G_Ant1_2412



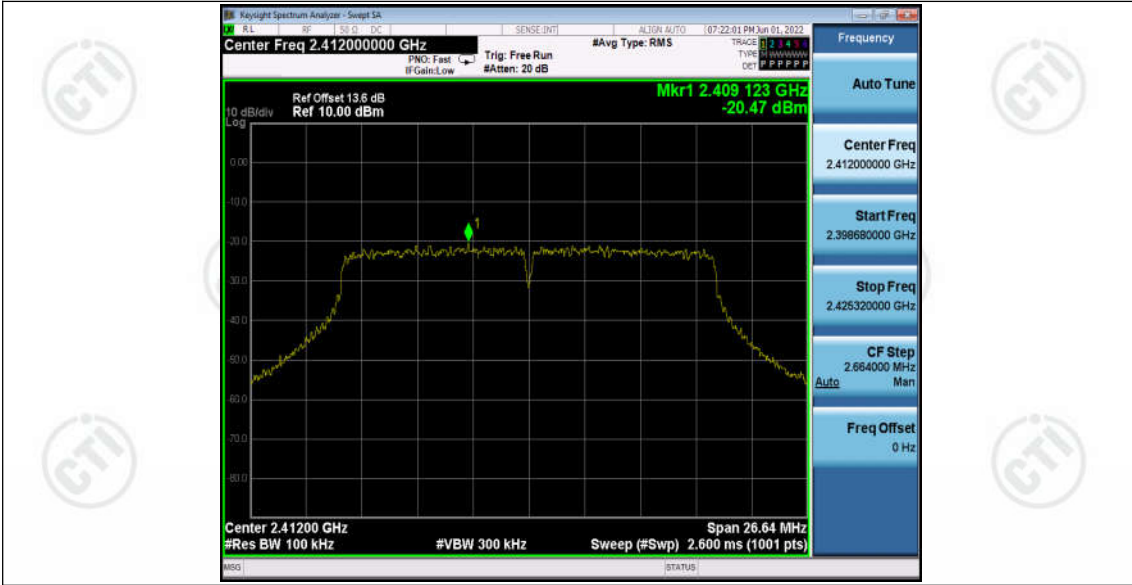
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

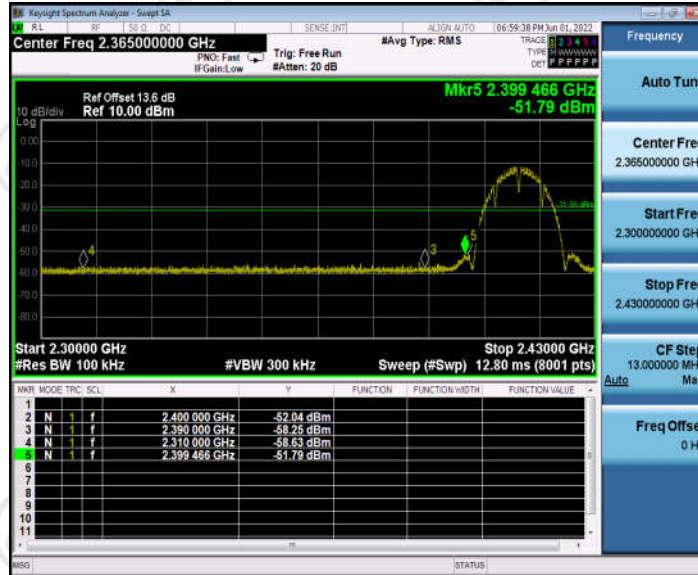


Appendix F: Band edge measurements**Test Result**

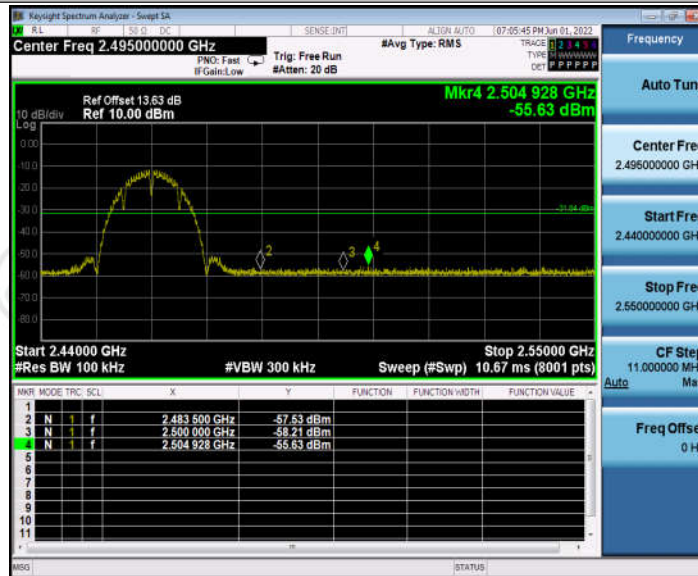
Test Mode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-11.58	-51.79	≤-31.58	PASS
		High	2462	-11.84	-55.63	≤-31.84	PASS
11G	Ant1	Low	2412	-20.77	-51.48	≤-40.77	PASS
		High	2462	-20.93	-55.24	≤-40.93	PASS
11N20SI SO	Ant1	Low	2412	-20.47	-51.19	≤-40.47	PASS
		High	2462	-20.68	-54.67	≤-40.68	PASS

Test Graphs

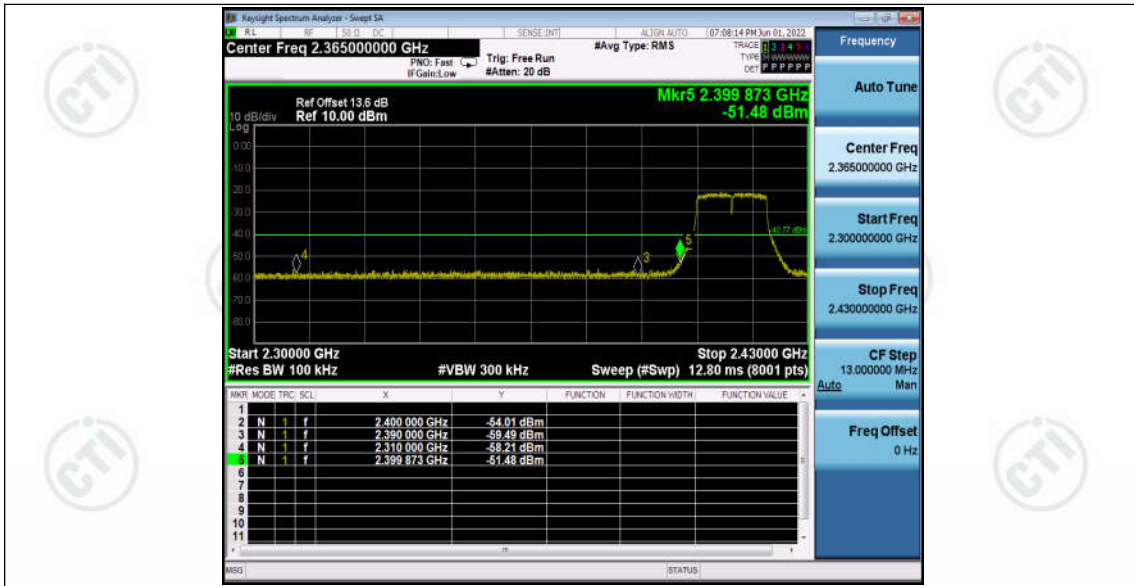
11B_Ant1_Low_2412



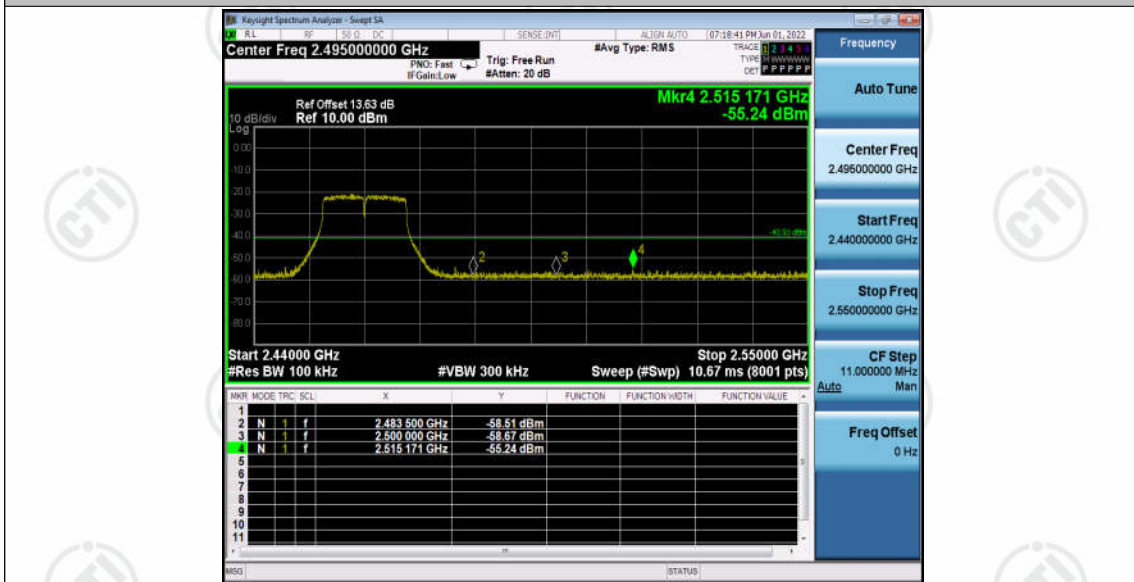
11B_Ant1_High_2462



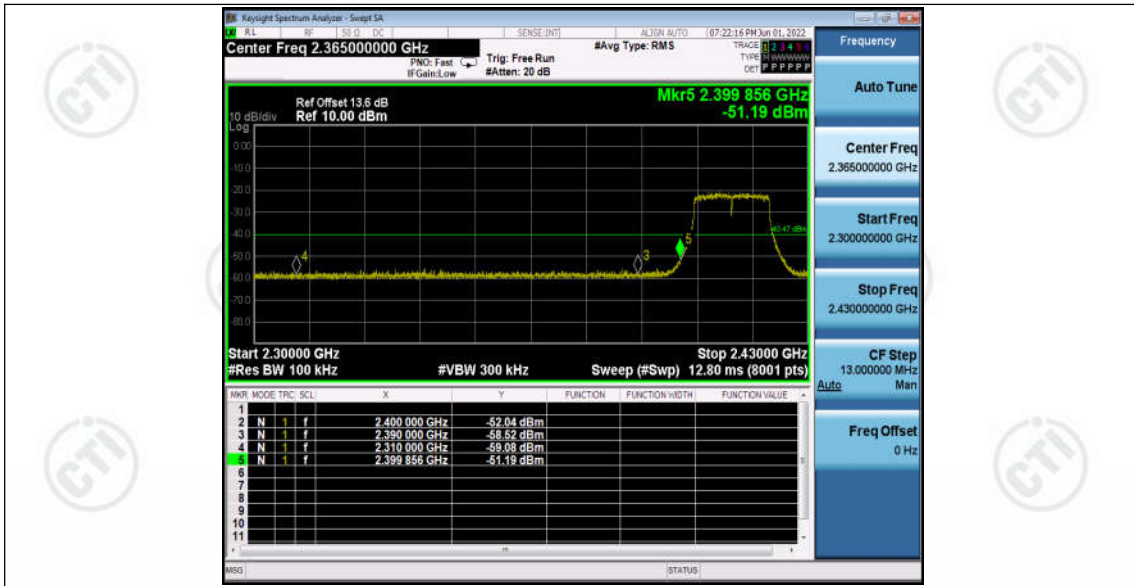
11G_Ant1_Low_2412



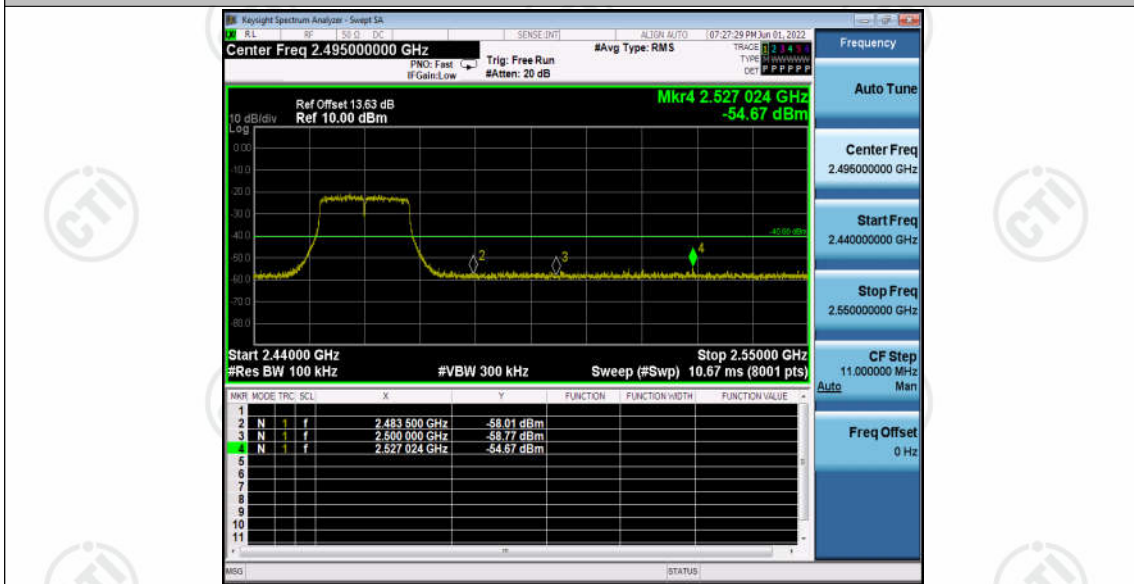
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

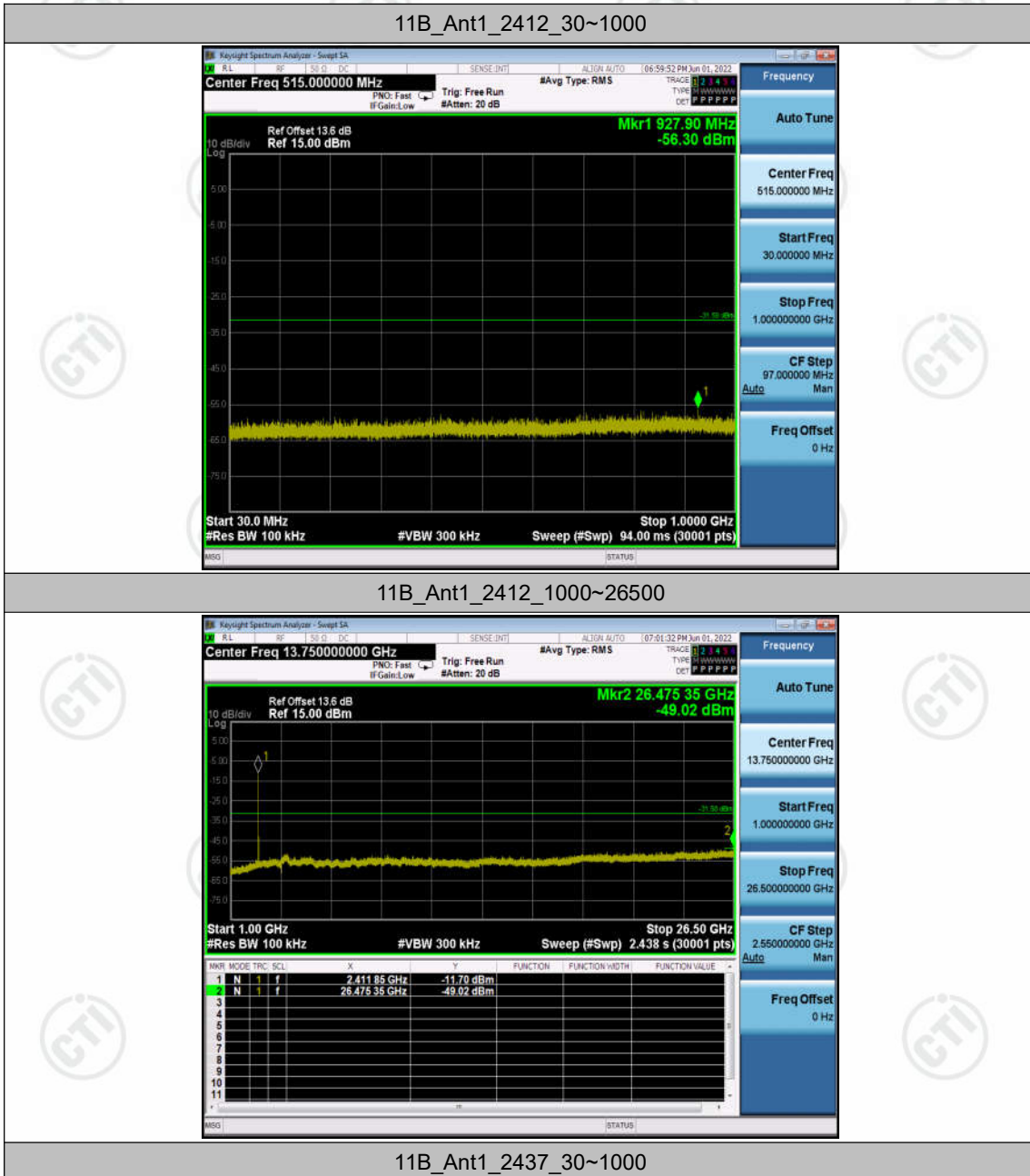


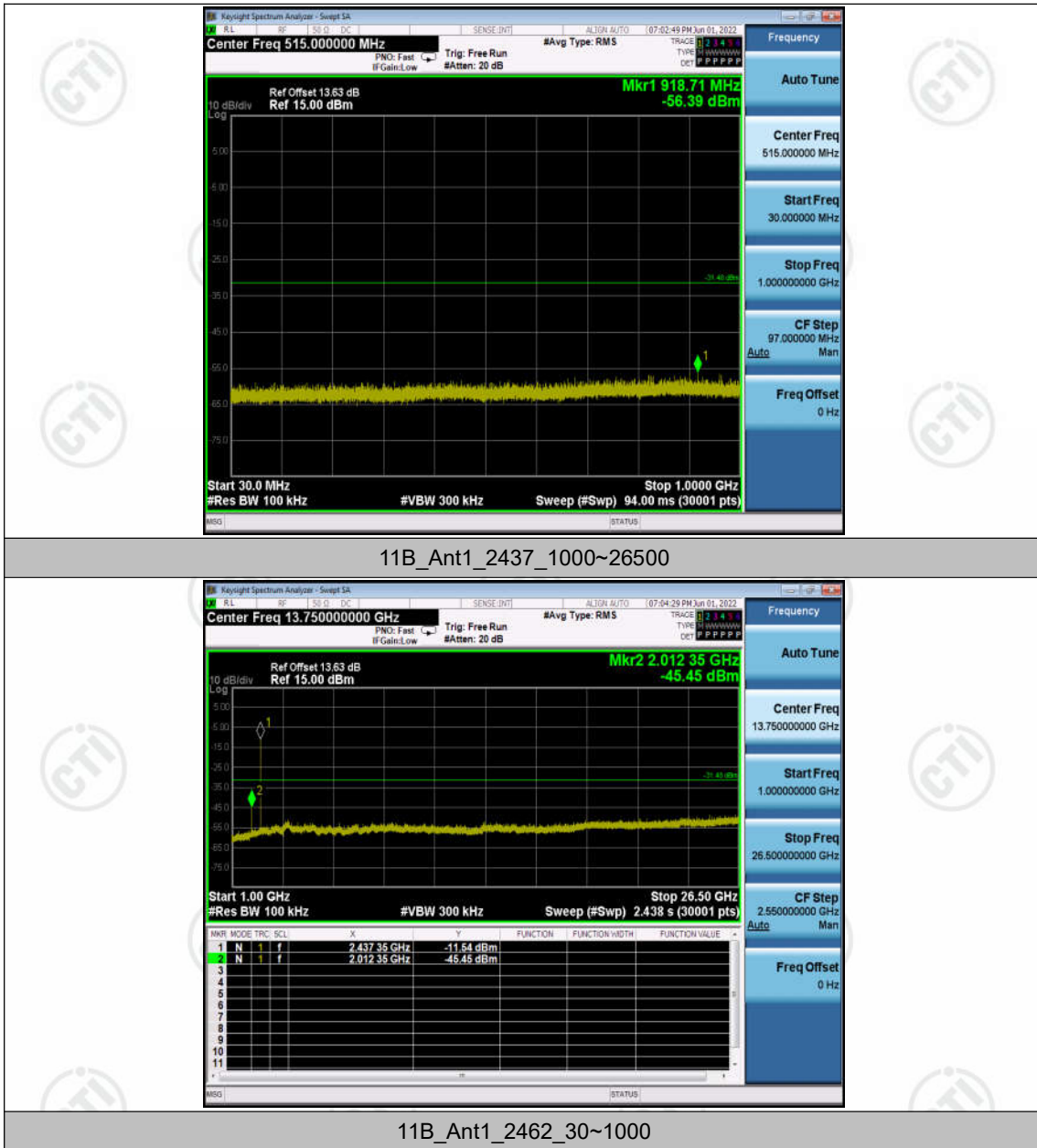
Appendix G: Conducted Spurious Emission

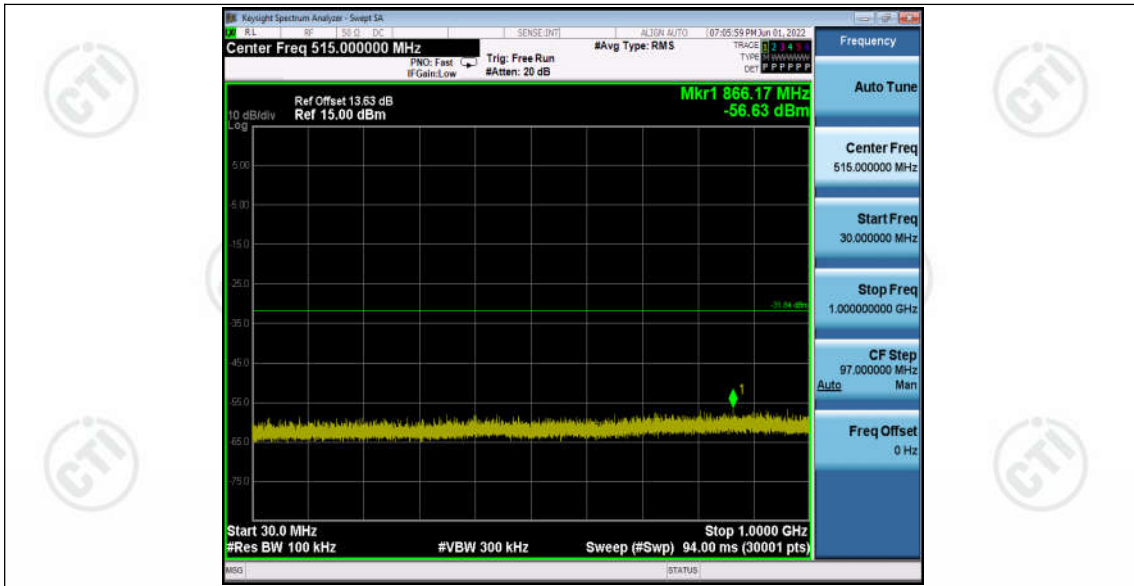
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	-11.58	-56.3	≤-31.58	PASS
			1000~2650 0	-11.58	-49.02	≤-31.58	PASS
		2437	30~1000	-11.48	-56.39	≤-31.48	PASS
			1000~2650 0	-11.48	-45.45	≤-31.48	PASS
		2462	30~1000	-11.84	-56.63	≤-31.84	PASS
			1000~2650 0	-11.84	-48.87	≤-31.84	PASS
11G	Ant1	2412	30~1000	-20.77	-57.25	≤-40.77	PASS
			1000~2650 0	-20.77	-49.05	≤-40.77	PASS
		2437	30~1000	-20.76	-52.21	≤-40.76	PASS
			1000~2650 0	-20.76	-48.87	≤-40.76	PASS
		2462	30~1000	-20.93	-57.37	≤-40.93	PASS
			1000~2650 0	-20.93	-48.89	≤-40.93	PASS
11N20SI SO	Ant1	2412	30~1000	-20.47	-56.55	≤-40.47	PASS
			1000~2650 0	-20.47	-49.1	≤-40.47	PASS
		2437	30~1000	-20.54	-56.65	≤-40.54	PASS
			1000~2650 0	-20.54	-49.02	≤-40.54	PASS
		2462	30~1000	-20.68	-56.01	≤-40.68	PASS
			1000~2650 0	-20.68	-48.46	≤-40.68	PASS

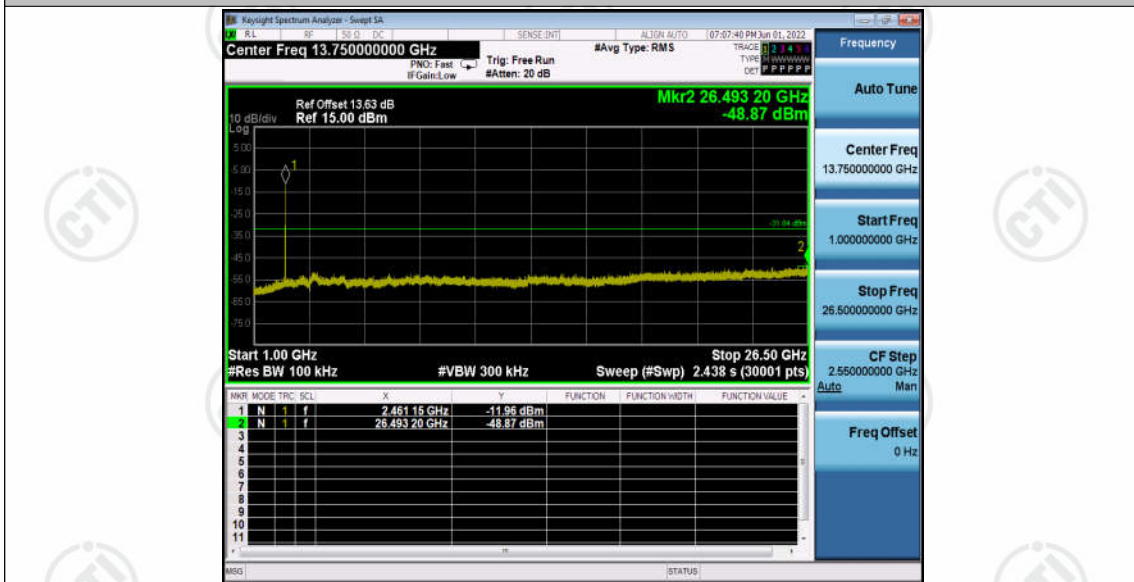
Test Graphs



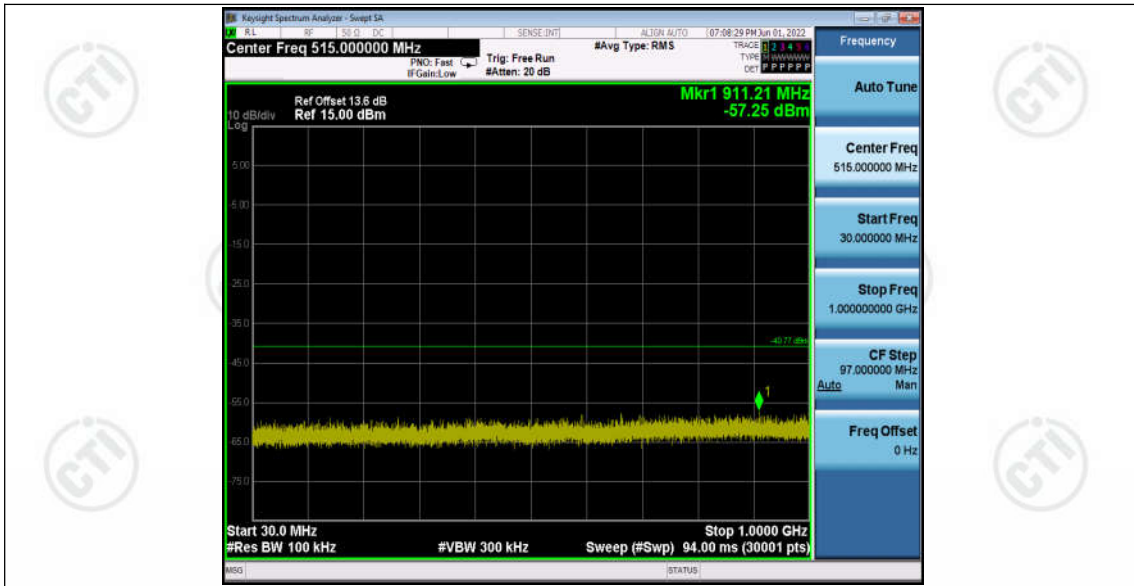




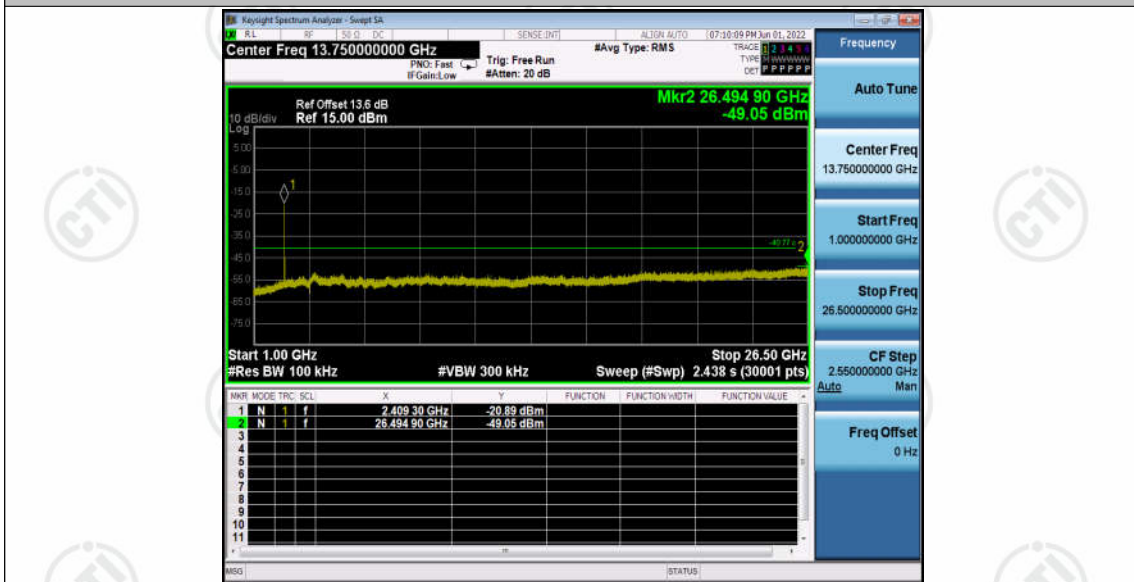
11B_Ant1_2462_1000~26500



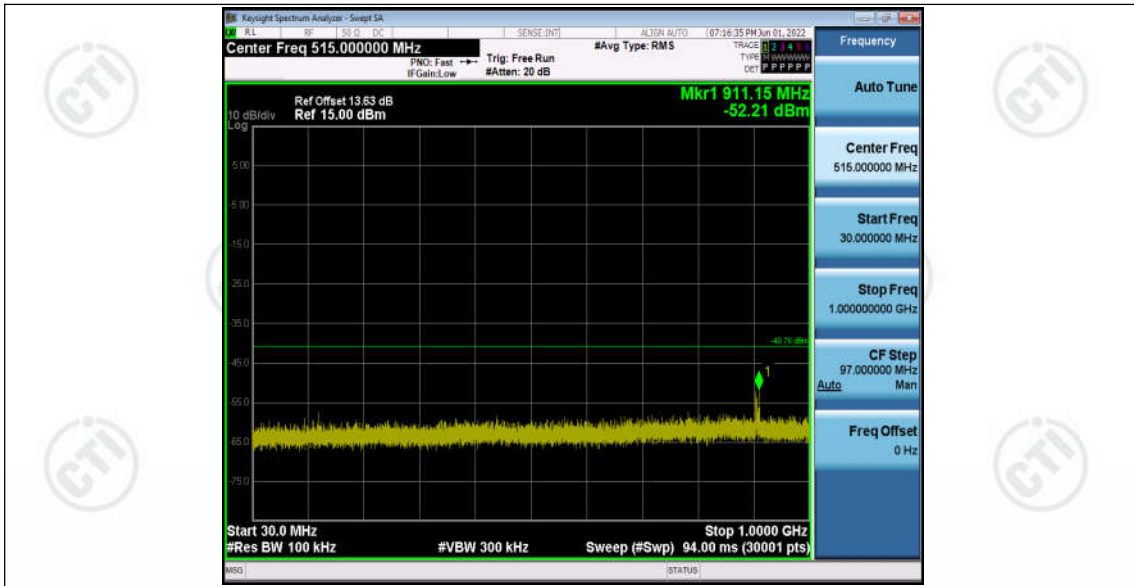
11G_Ant1_2412_30~1000



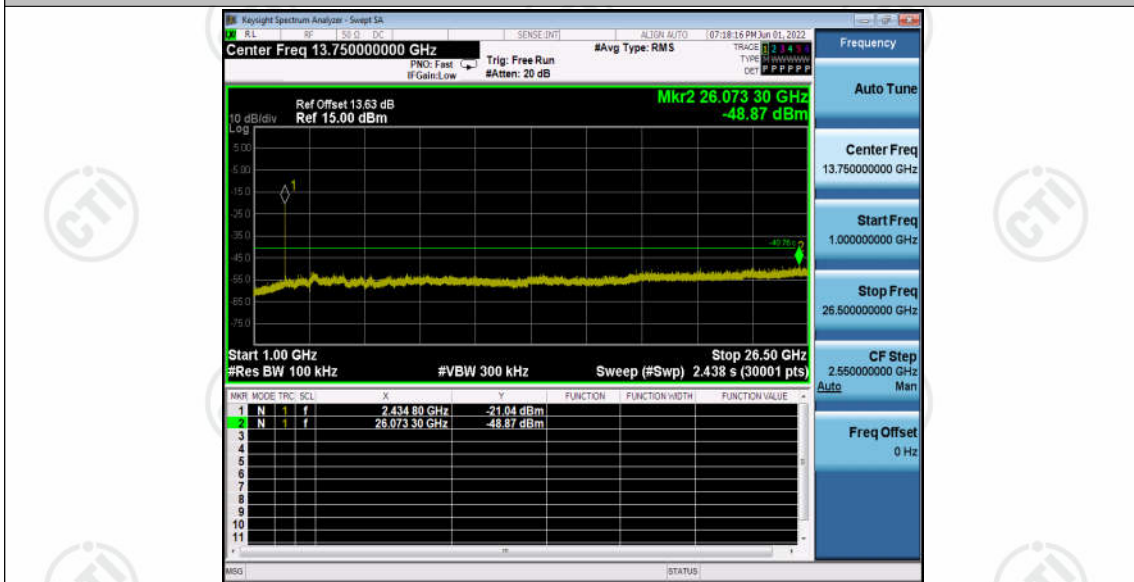
11G_Ant1_2412_1000~26500



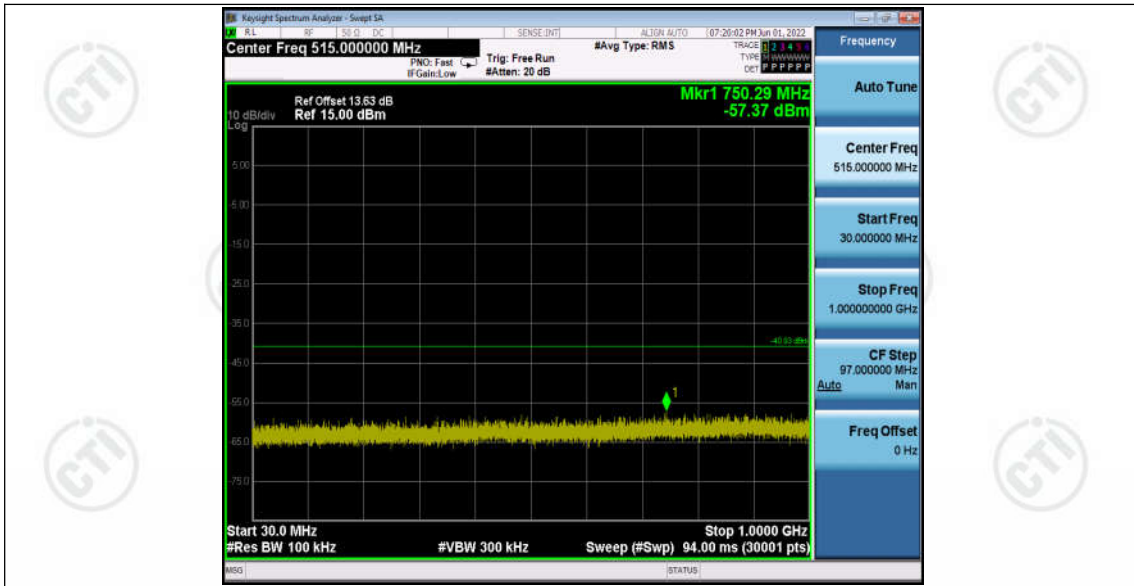
11G_Ant1_2437_30~1000



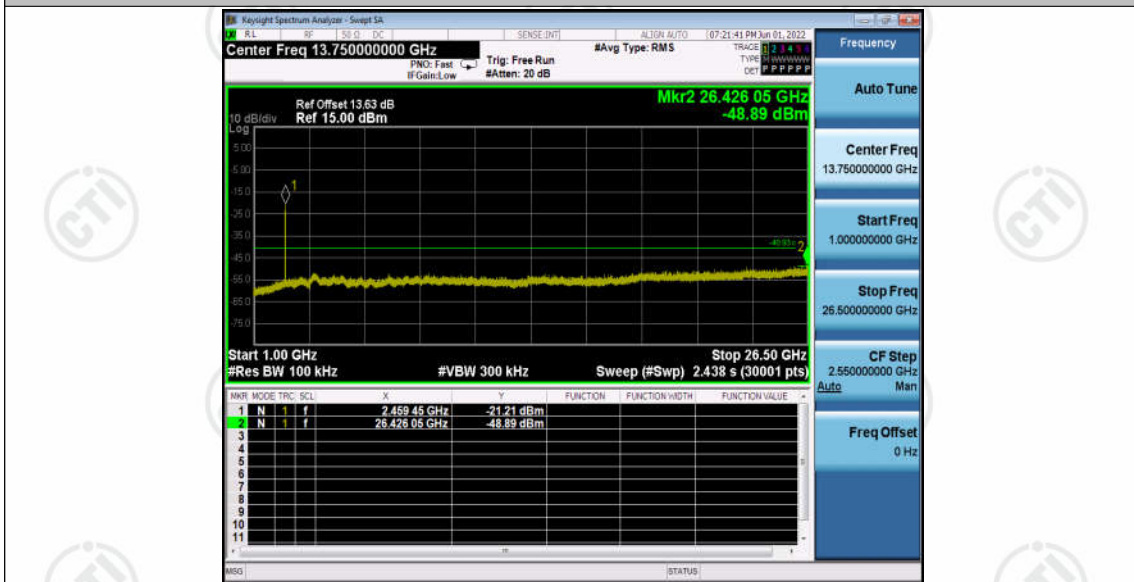
11G_Ant1_2437_1000~26500



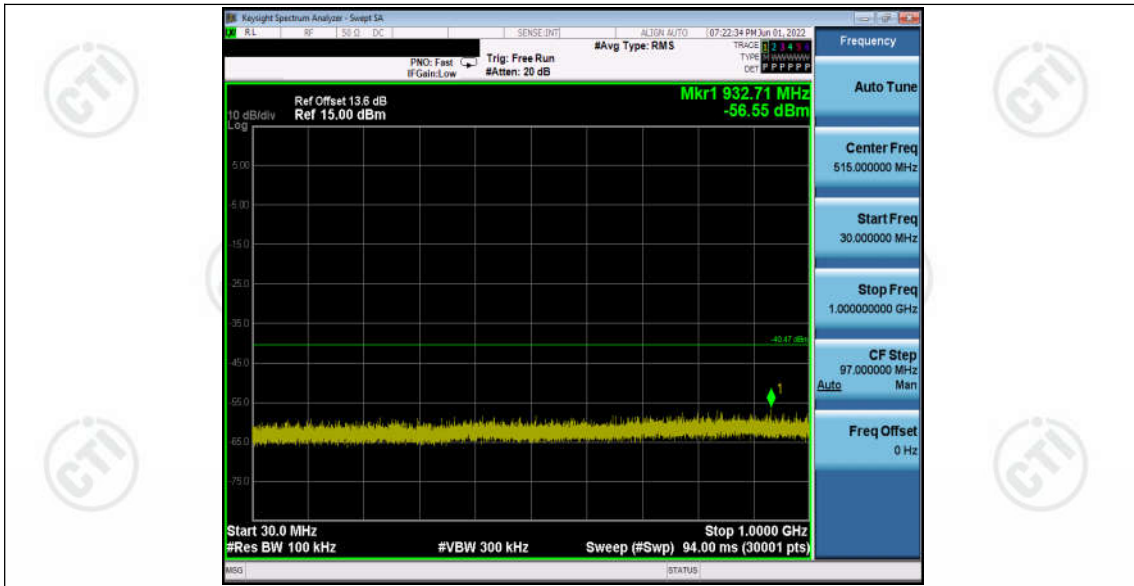
11G_Ant1_2462_30~1000



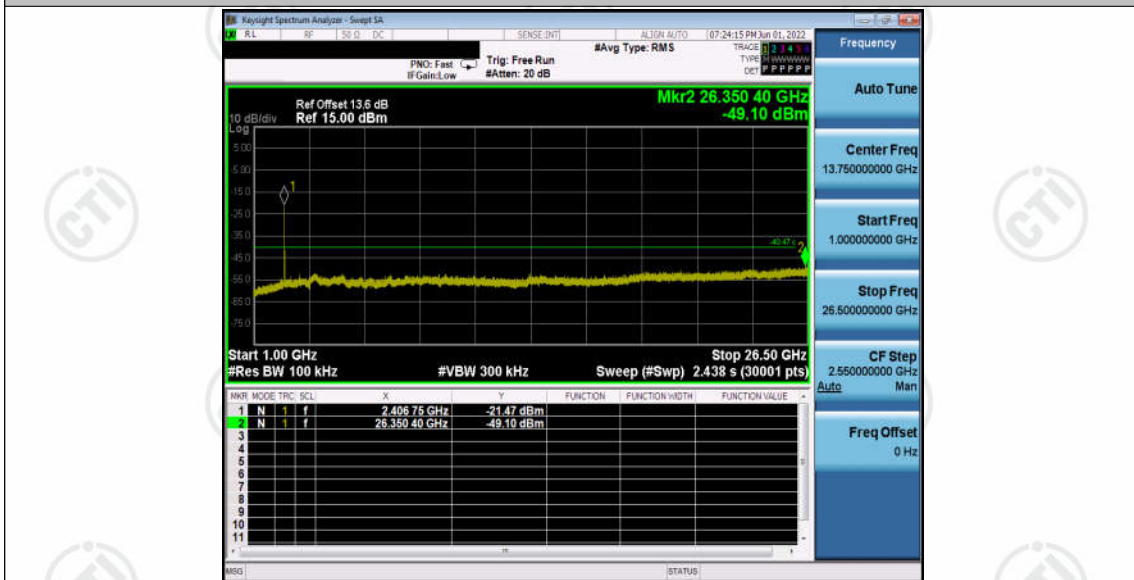
11G_Ant1_2462_1000~26500



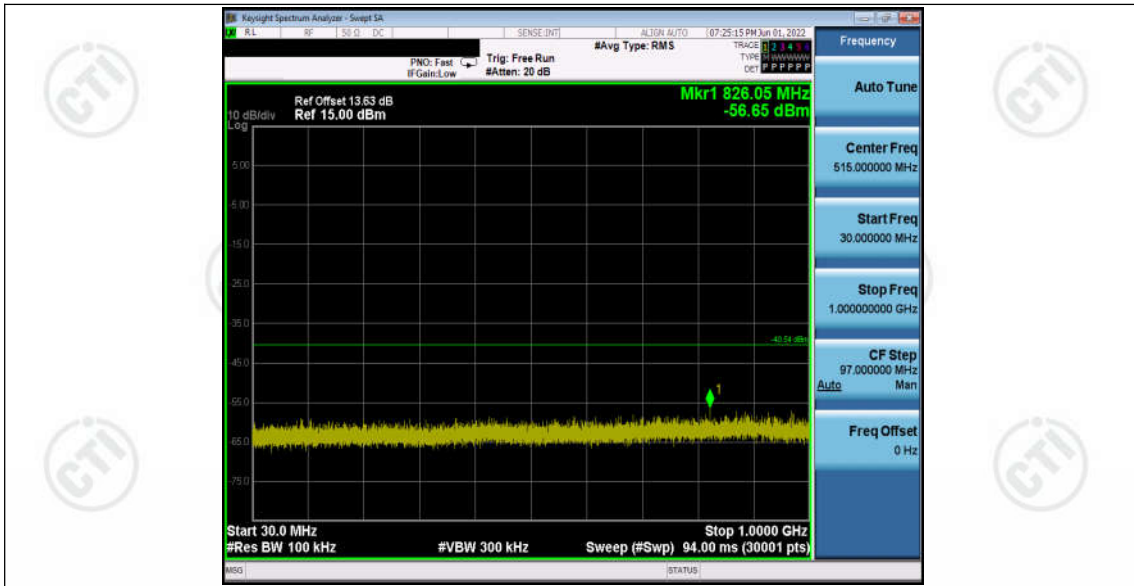
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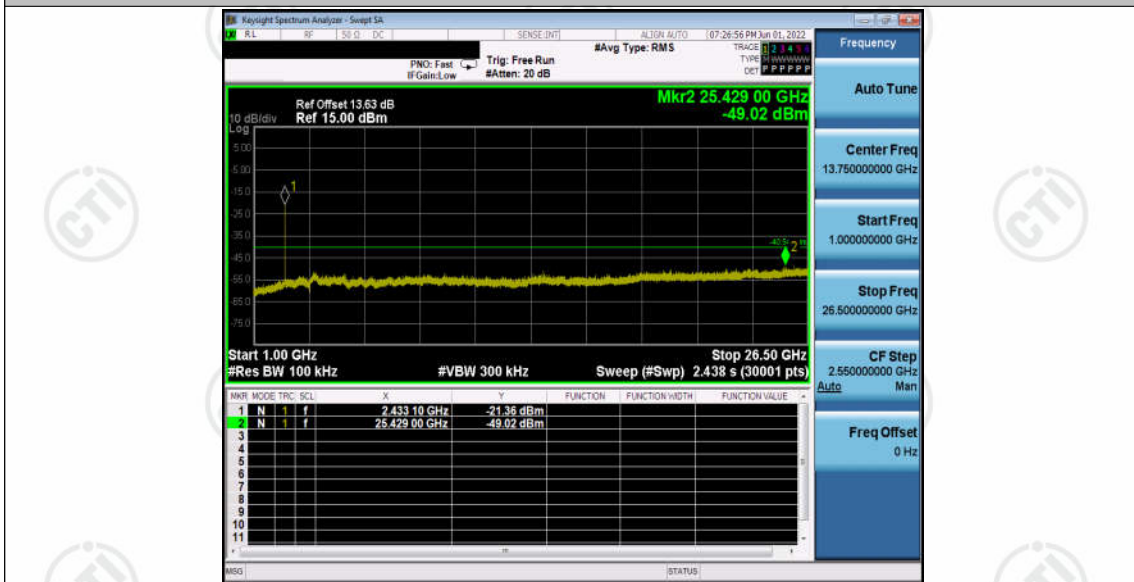
11N20SISO_Ant1_2412_1000~26500



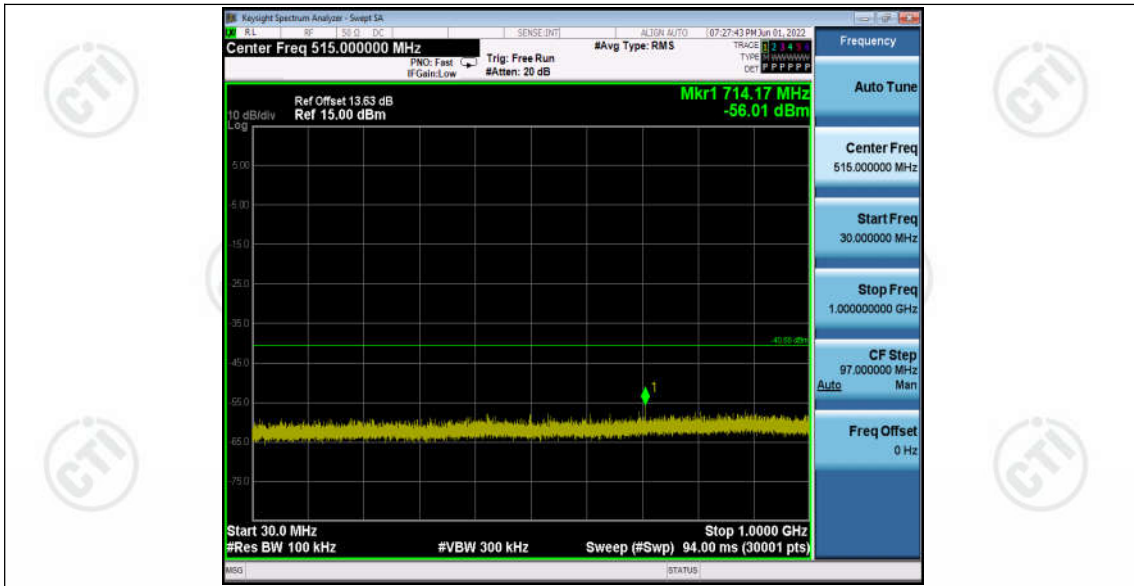
11N20SISO_Ant1_2437_30~1000



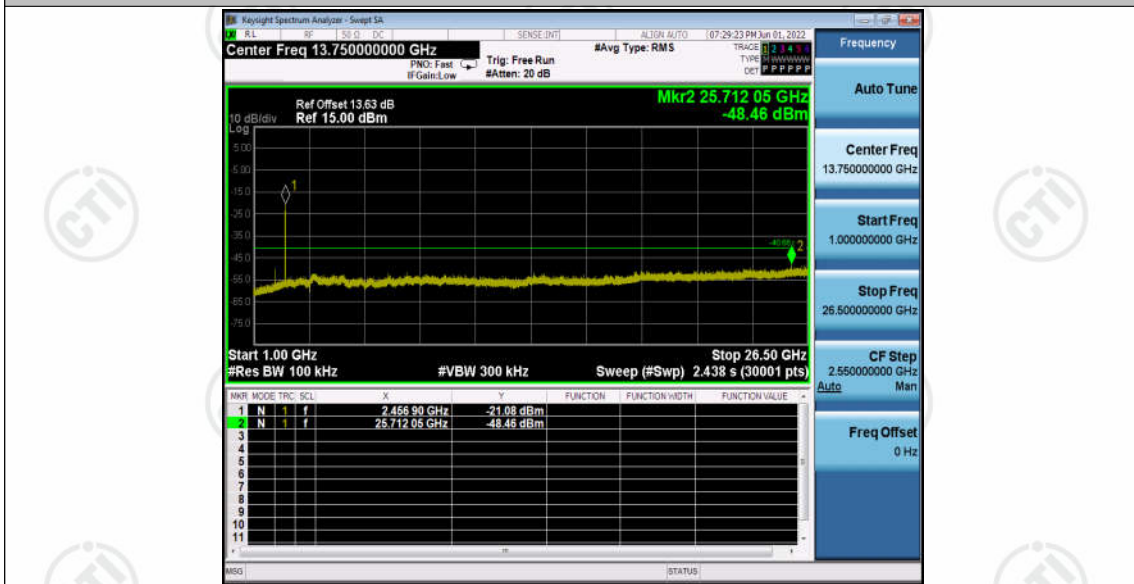
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

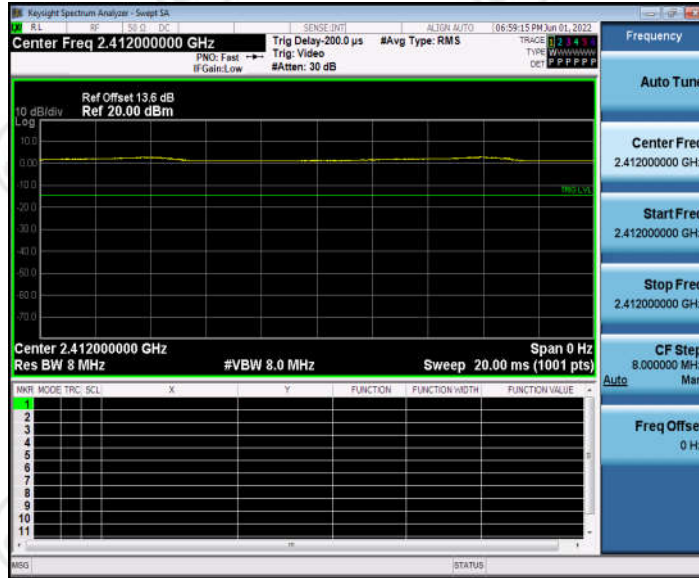


Appendix H: Duty Cycle**Test Result**

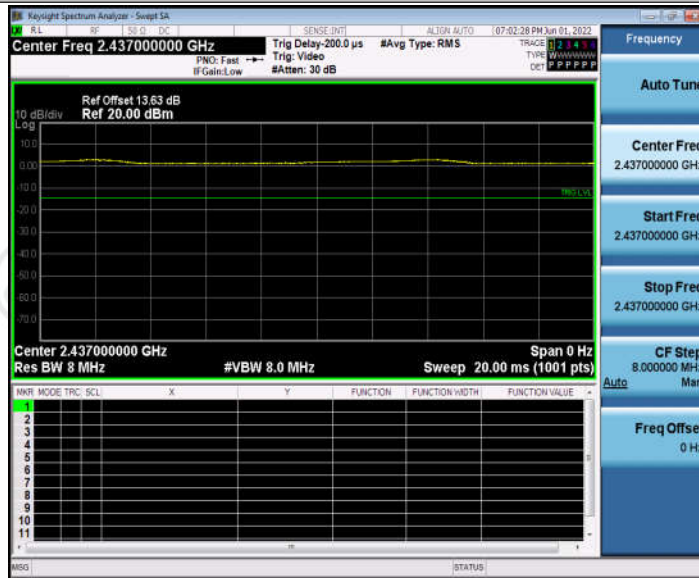
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11G	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11N20SIS O	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00

Test Graphs

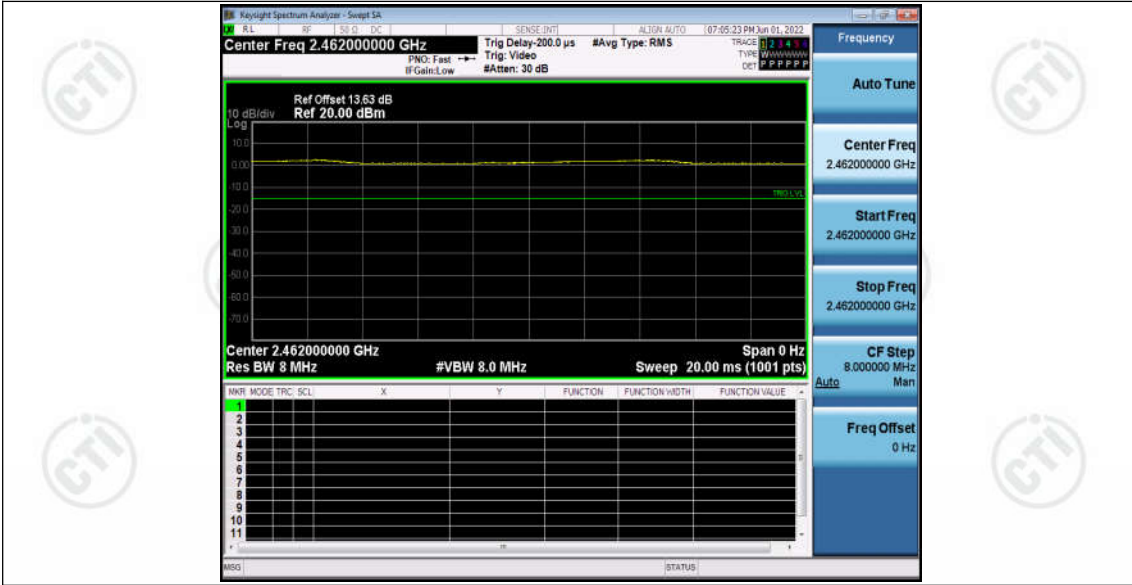
11B_Ant1_2412



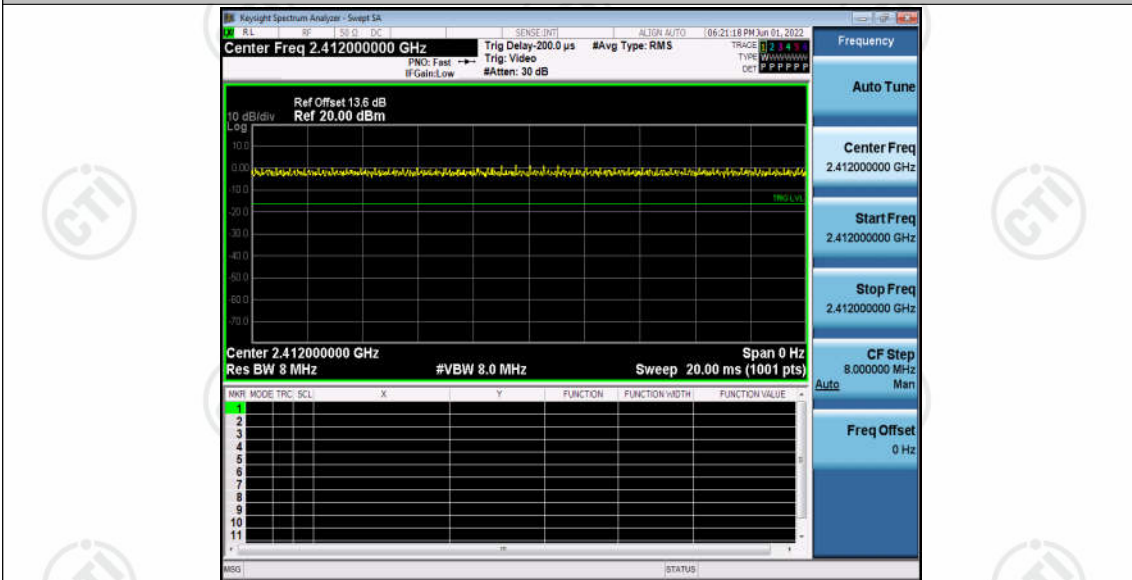
11B_Ant1_2437



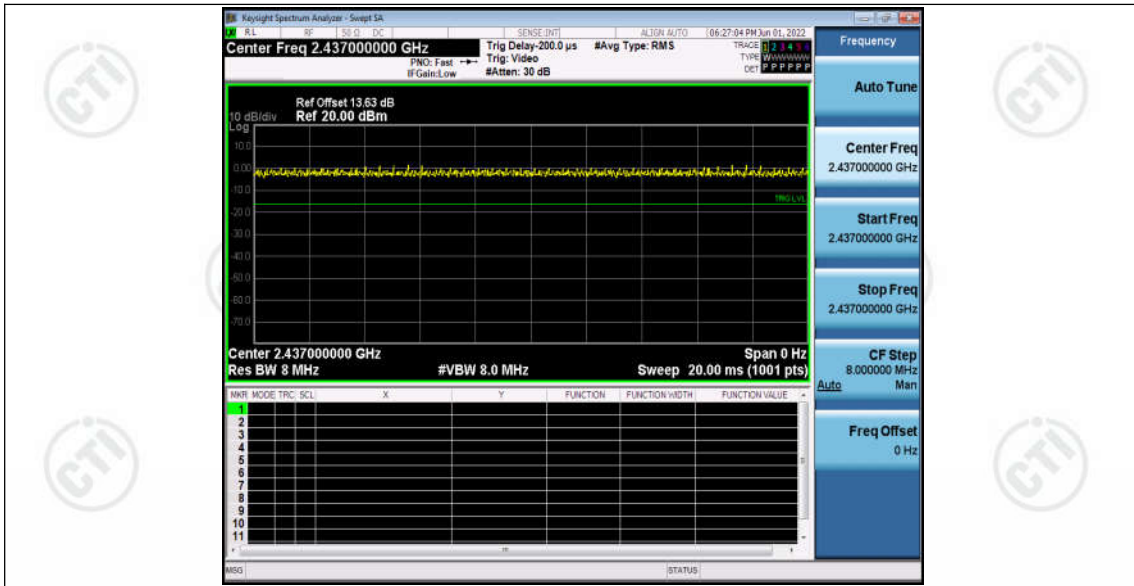
11B_Ant1_2462



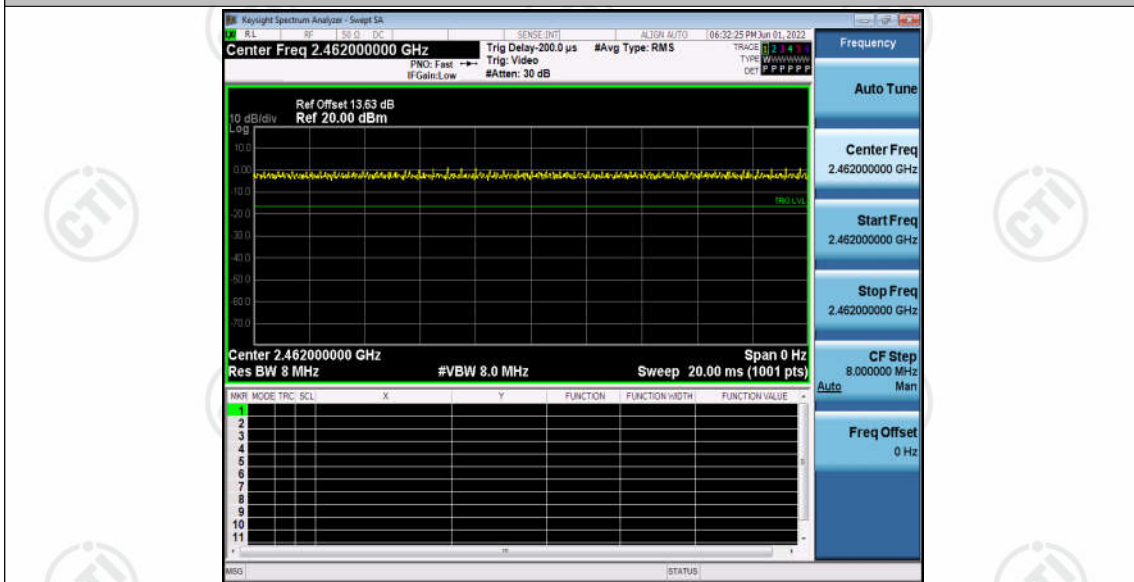
11G_Ant1_2412



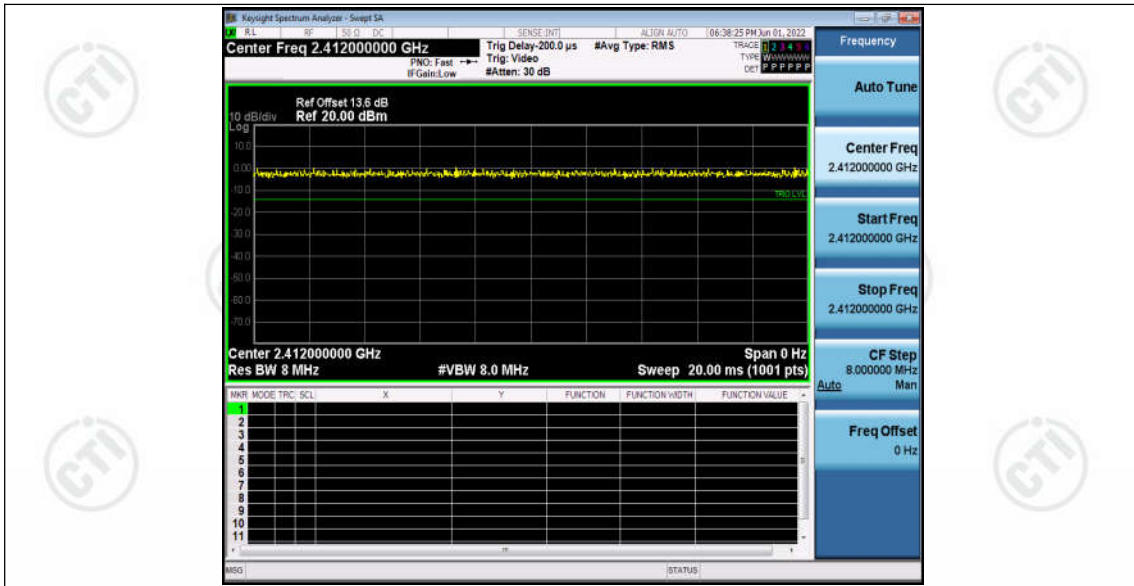
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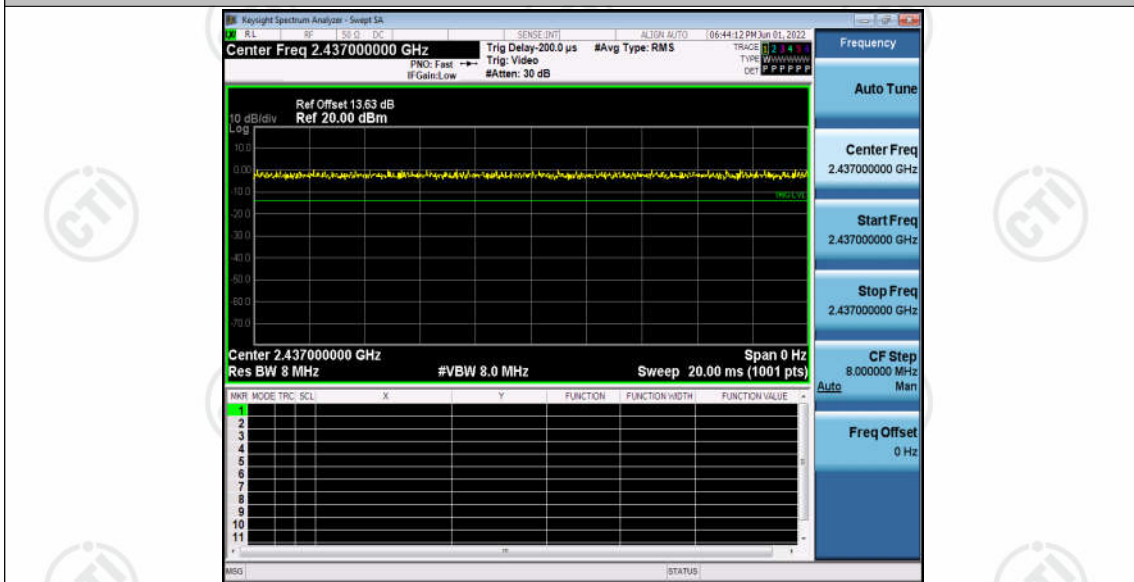
11G_Ant1_2462



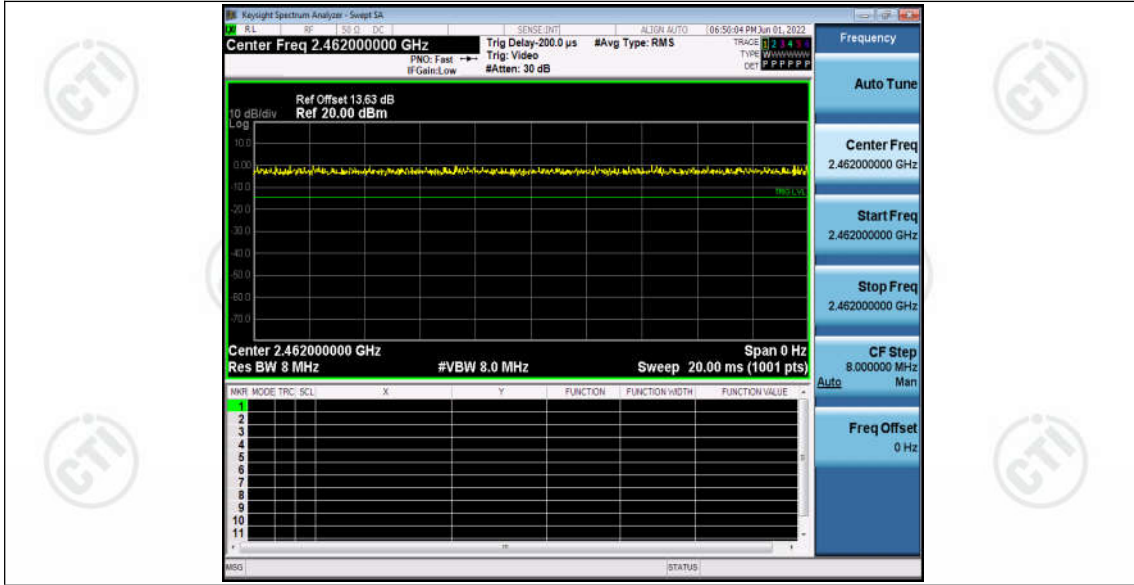
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



END OF REPORT