

Appendix: 2.4G WIFI

Contents

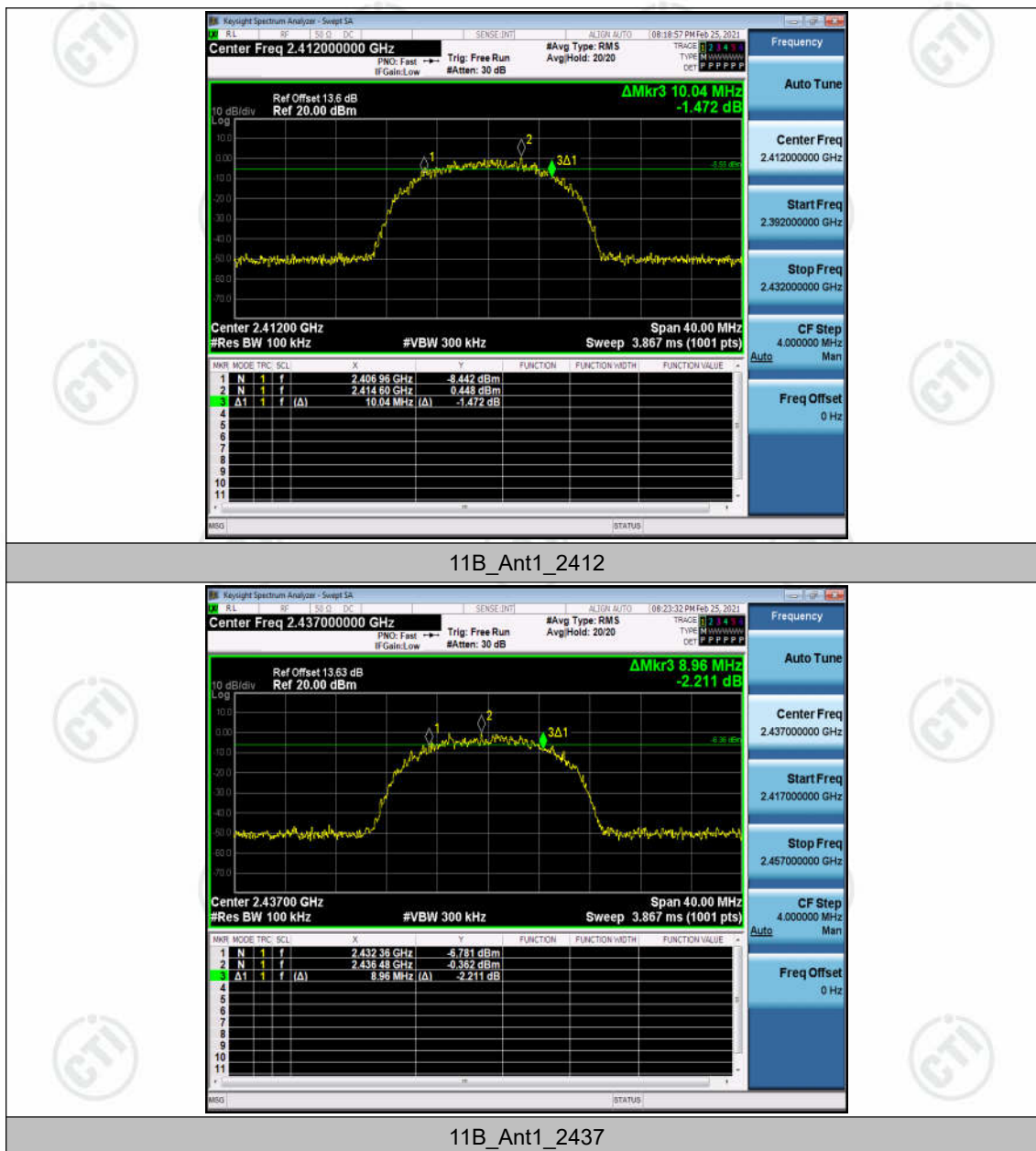
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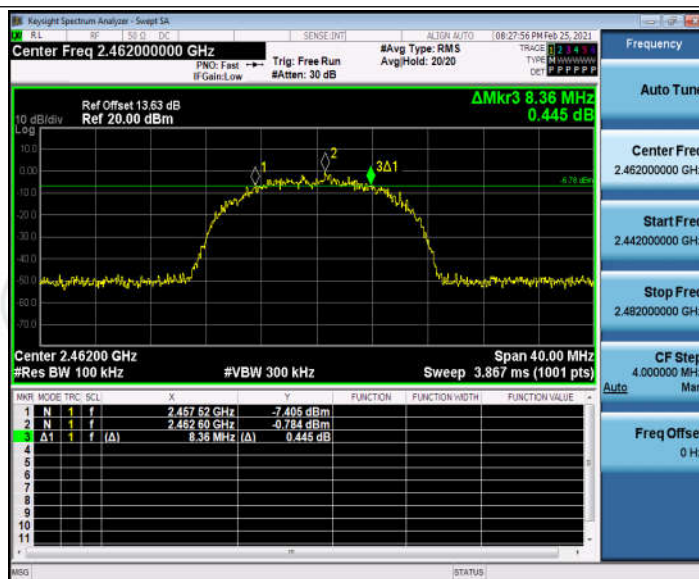
Appendix A: DTS Bandwidth

Test Result

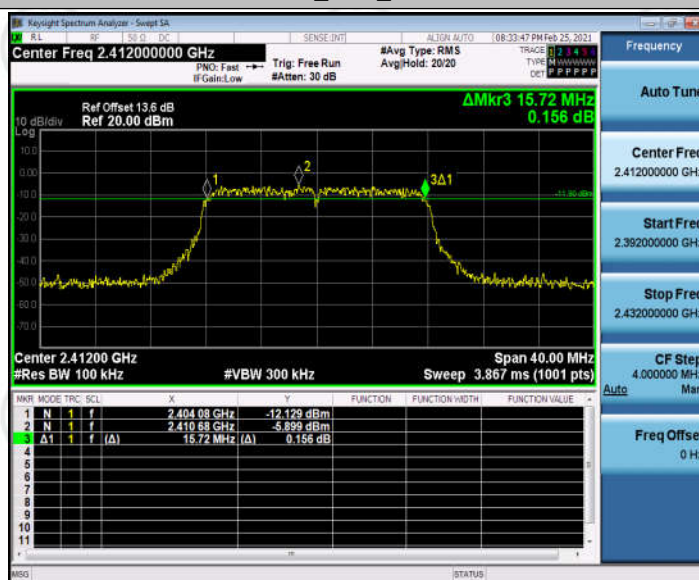
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2406.960	2417.000	0.5	PASS
		2437	8.960	2432.360	2441.320	0.5	PASS
		2462	8.360	2457.520	2465.880	0.5	PASS
11G	Ant1	2412	15.720	2404.080	2419.800	0.5	PASS
		2437	15.800	2429.040	2444.840	0.5	PASS
		2462	15.640	2454.280	2469.920	0.5	PASS
11N20SISO	Ant1	2412	15.480	2404.120	2419.600	0.5	PASS
		2437	15.520	2429.280	2444.800	0.5	PASS
		2462	15.200	2454.400	2469.600	0.5	PASS

Test Graphs

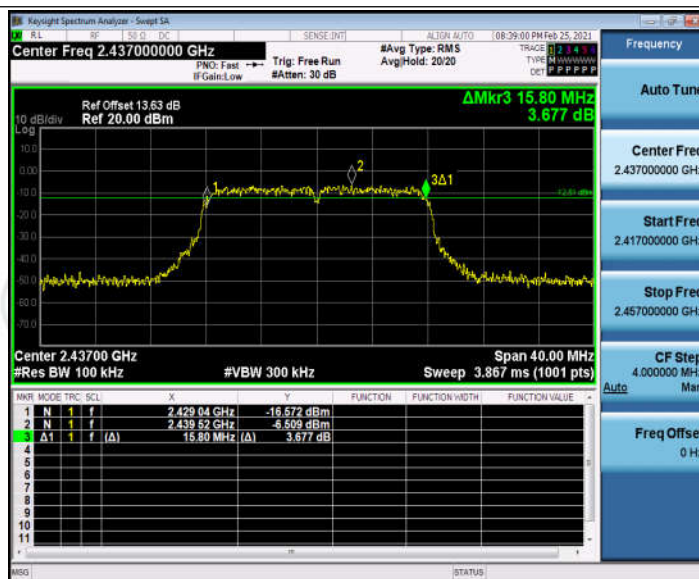




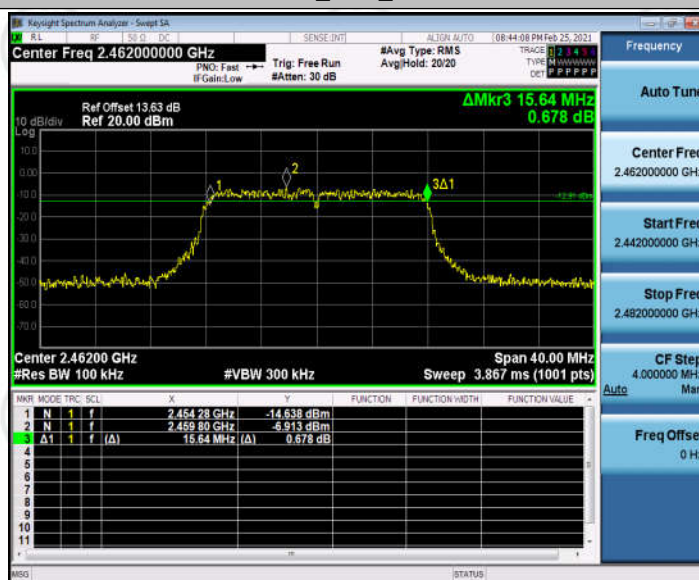
11B_Ant1_2462



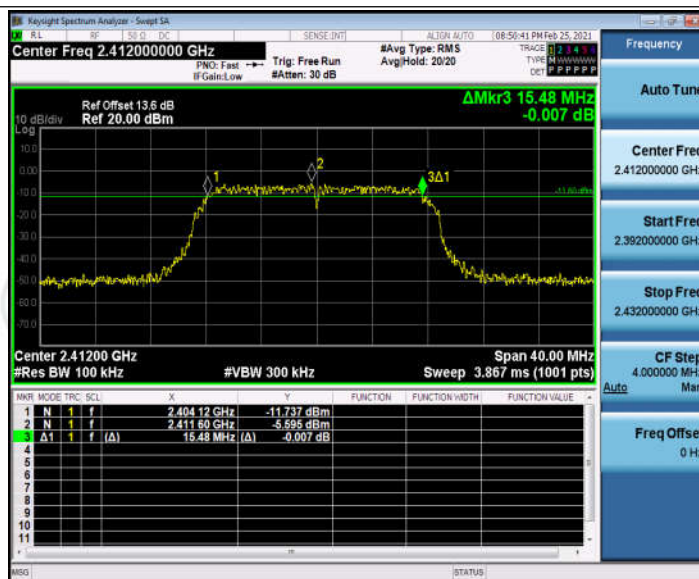
11G_Ant1_2412



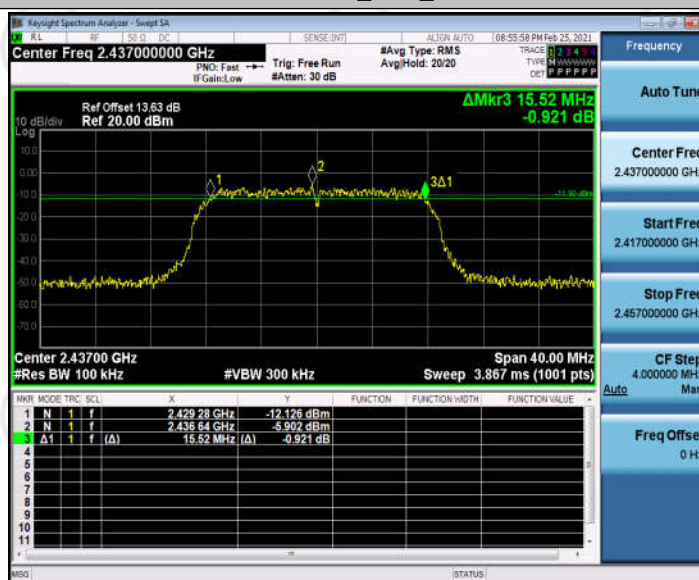
11G_Ant1_2437



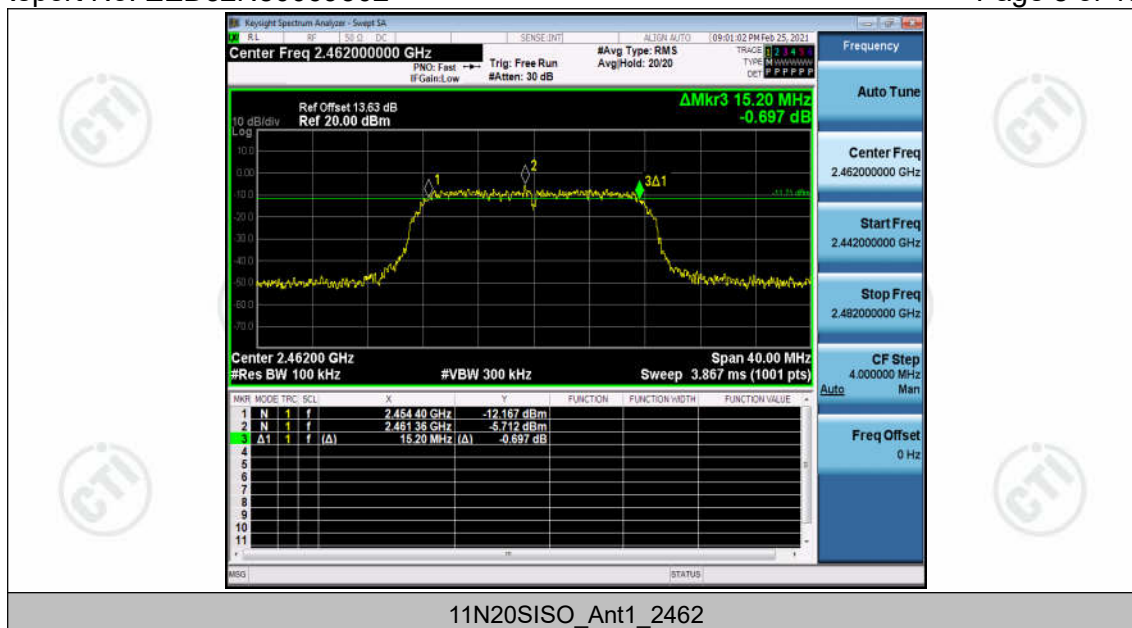
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

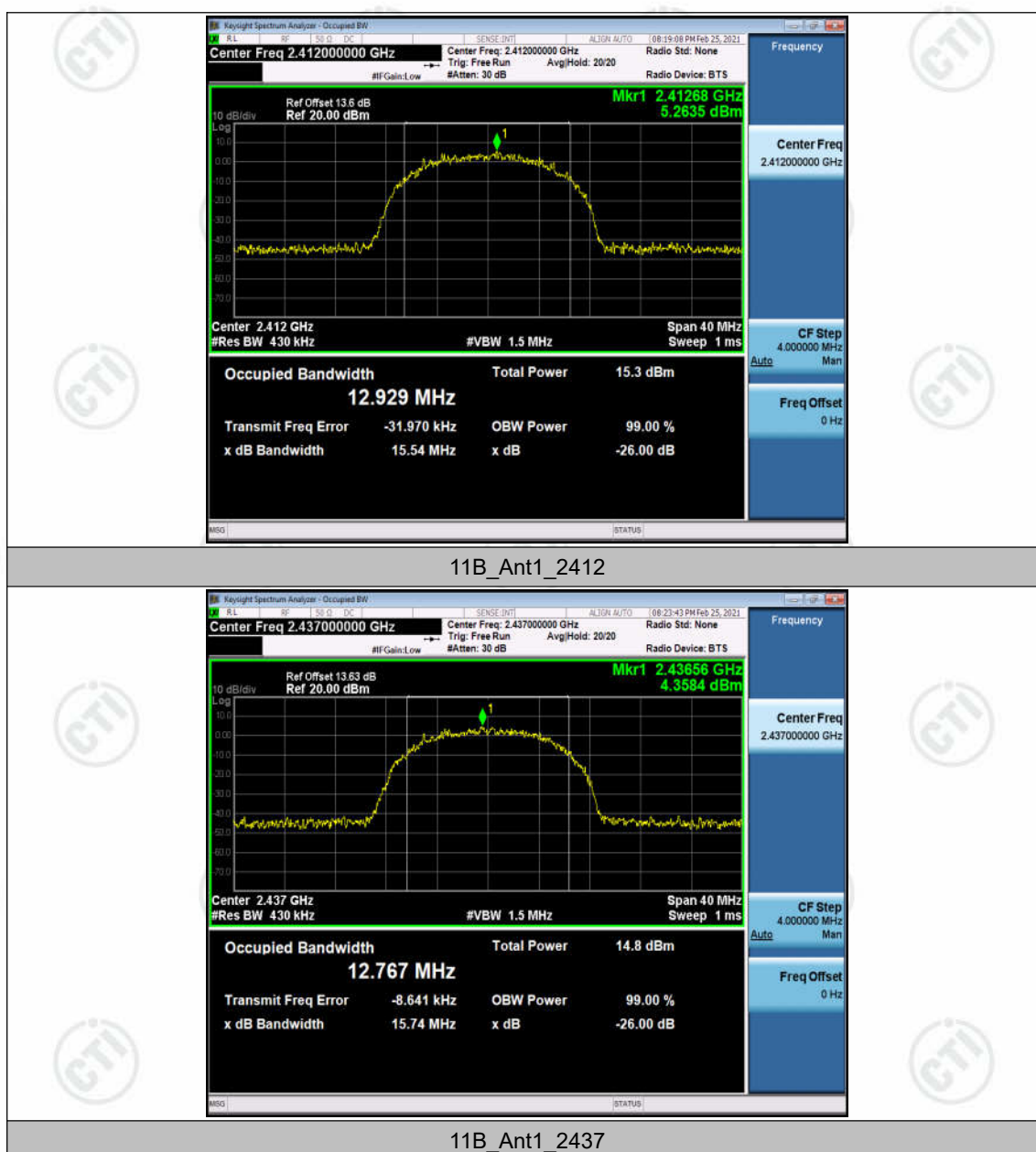


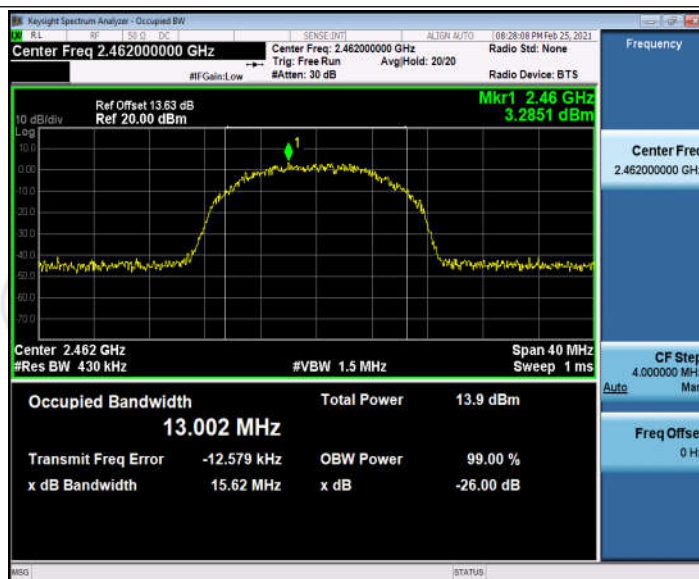
Appendix B: Occupied Channel Bandwidth

Test Result

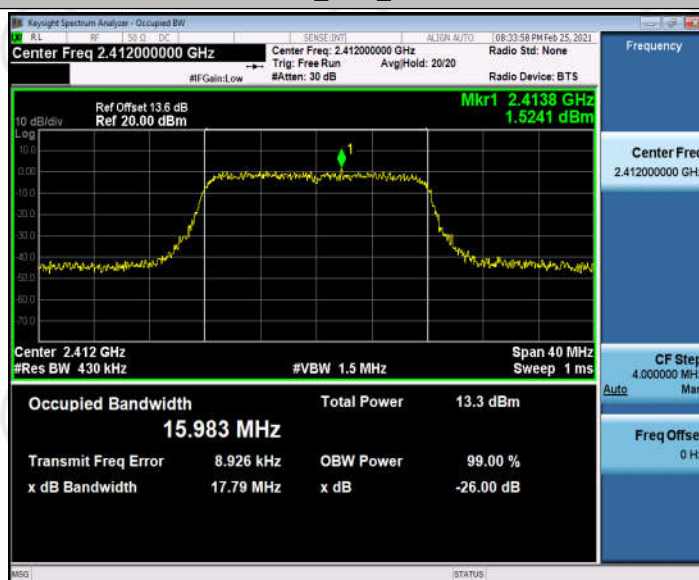
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.929	2405.504	2418.433	---	PASS
		2437	12.767	2430.608	2443.375	---	PASS
		2462	13.002	2455.486	2468.488	---	PASS
11G	Ant1	2412	15.983	2404.017	2420.000	---	PASS
		2437	15.948	2429.032	2444.980	---	PASS
		2462	15.996	2454.020	2470.016	---	PASS
11N20SISO	Ant1	2412	16.419	2403.796	2420.215	---	PASS
		2437	16.442	2428.747	2445.189	---	PASS
		2462	16.508	2453.739	2470.247	---	PASS

Test Graphs

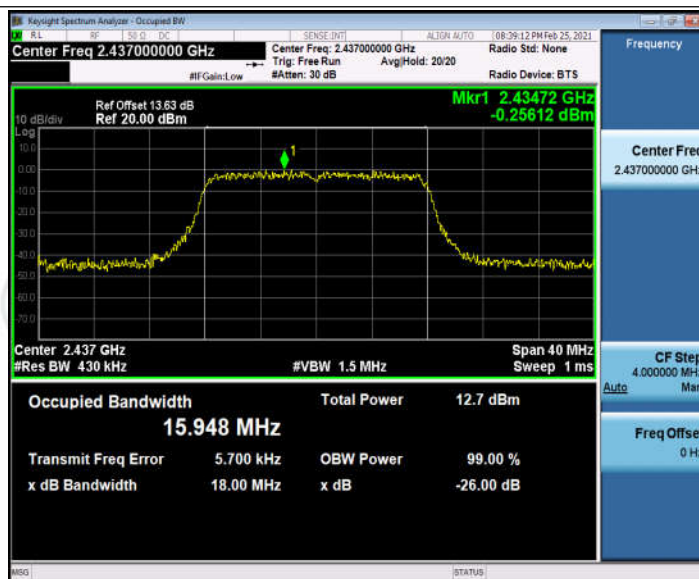




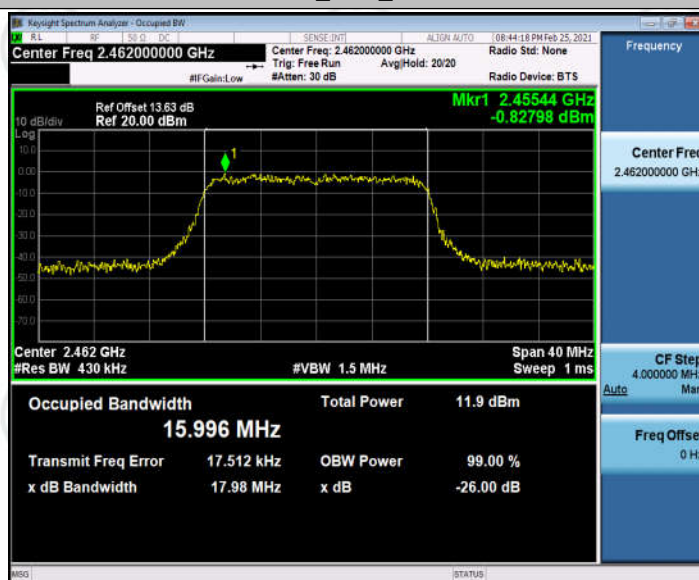
11B_Ant1_2462



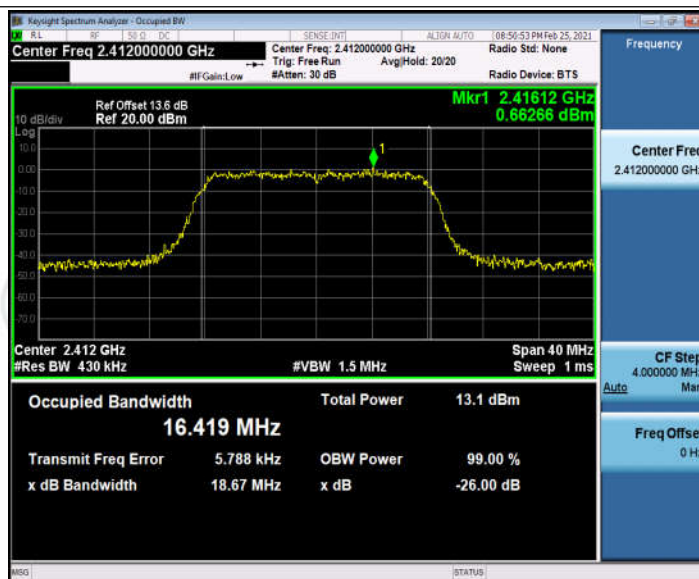
11G_Ant1_2412



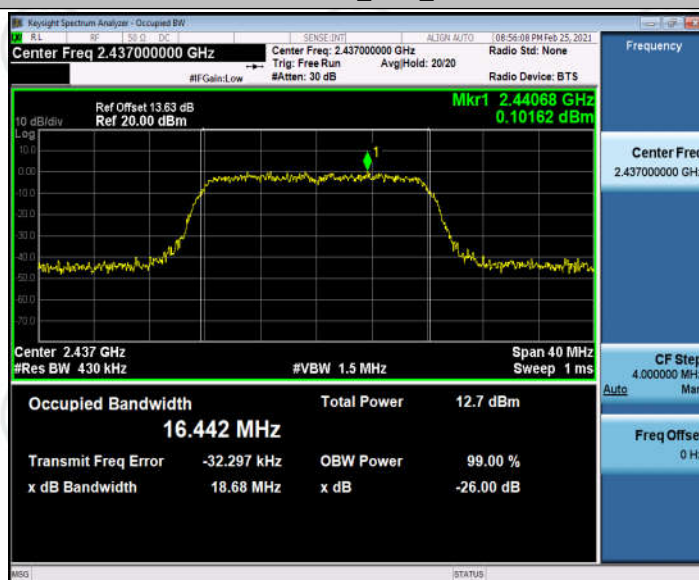
11G_Ant1_2437



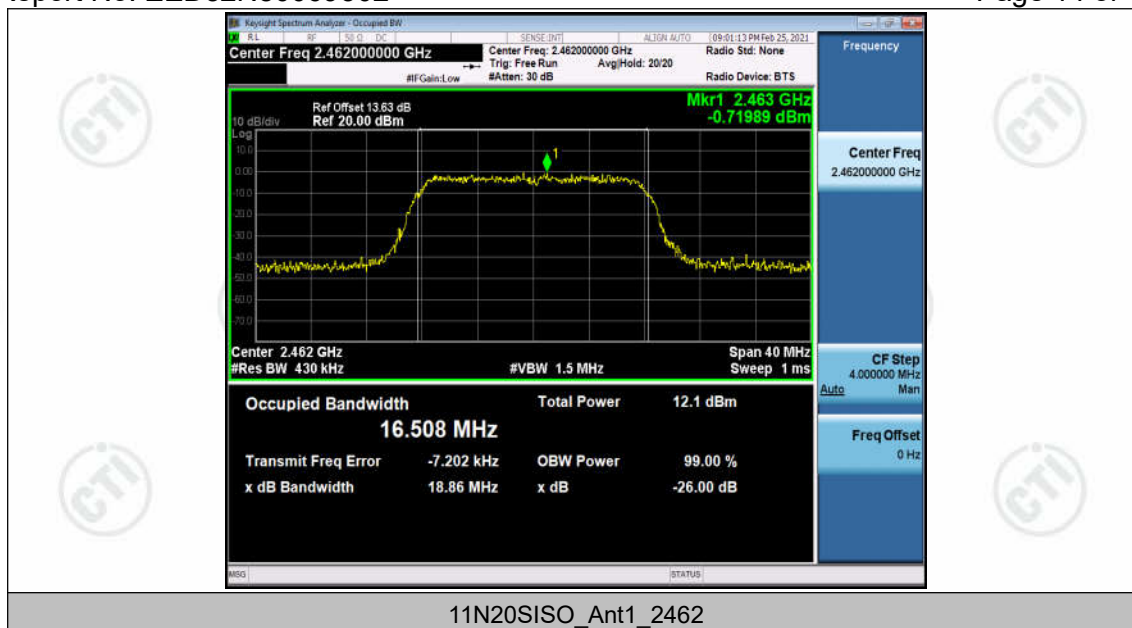
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix C: Maximum conducted output power

Test Result

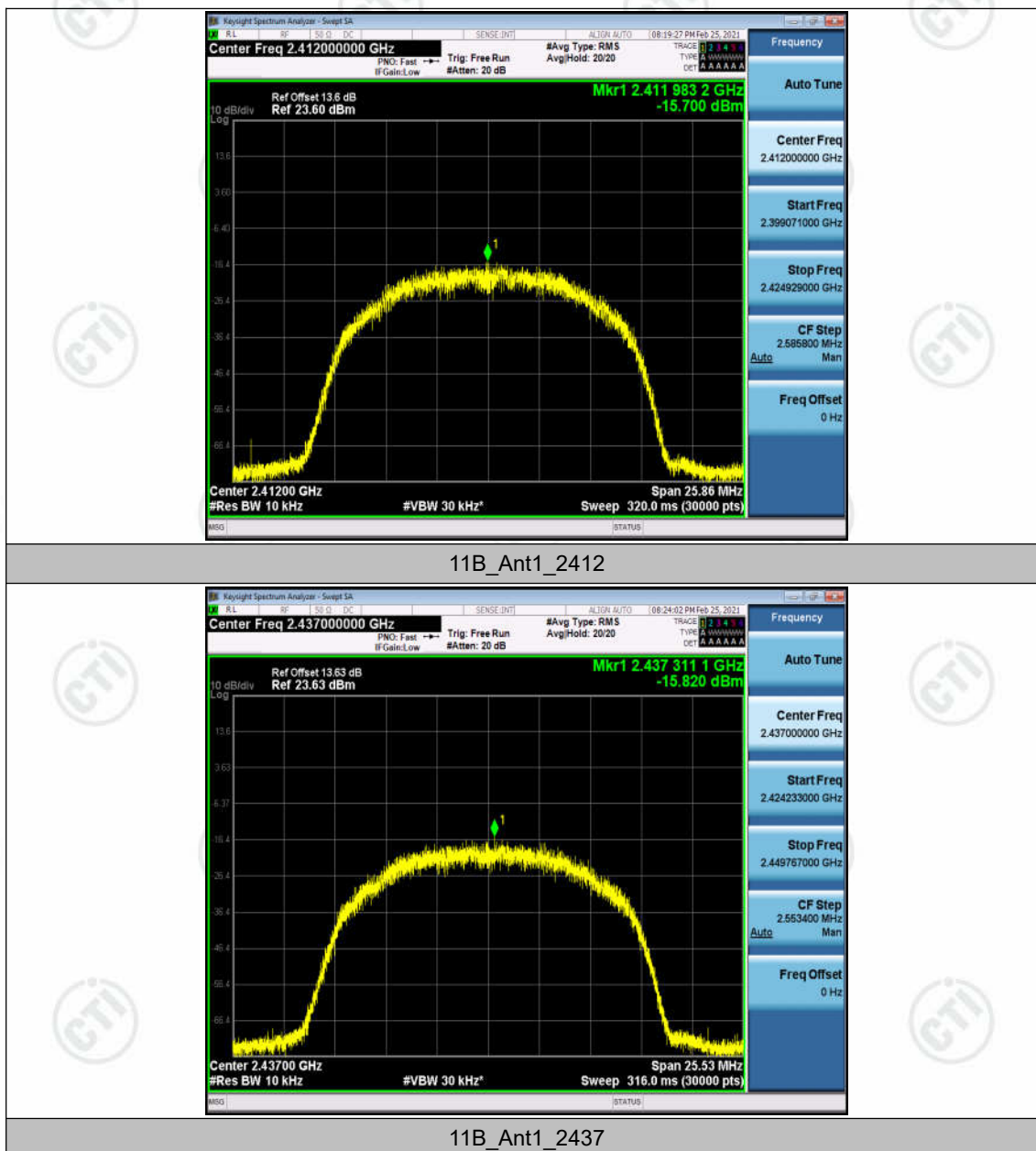
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	9.08	<=30	PASS
		2437	8.92	<=30	PASS
		2462	8.73	<=30	PASS
11G	Ant1	2412	7.83	<=30	PASS
		2437	7.24	<=30	PASS
		2462	7.57	<=30	PASS
11N20SISO	Ant1	2412	7.79	<=30	PASS
		2437	7.18	<=30	PASS
		2462	7.48	<=30	PASS

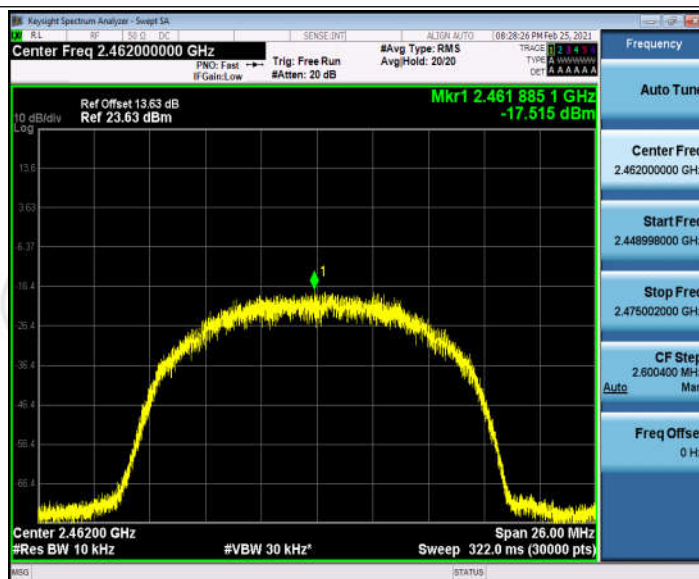
Appendix D: Maximum power spectral density

Test Result

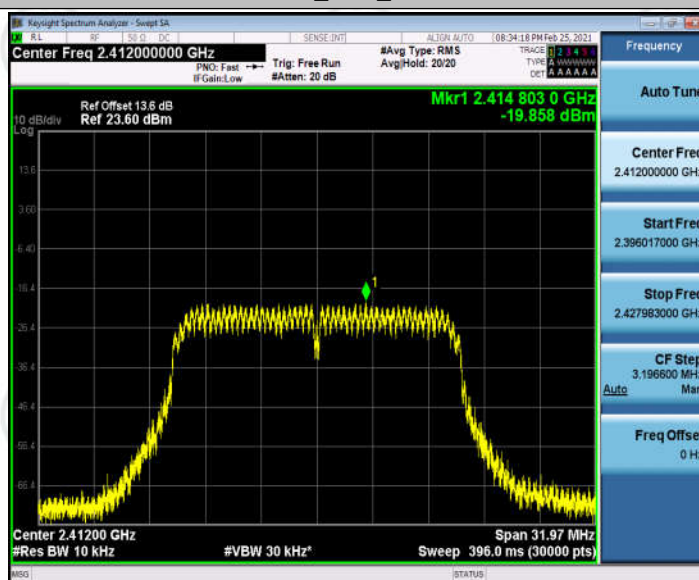
Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.7	<=8	PASS
		2437	-15.82	<=8	PASS
		2462	-17.52	<=8	PASS
11G	Ant1	2412	-19.86	<=8	PASS
		2437	-20.38	<=8	PASS
		2462	-20.84	<=8	PASS
11N20SISO	Ant1	2412	-19.97	<=8	PASS
		2437	-19.16	<=8	PASS
		2462	-20.57	<=8	PASS

Test Graphs

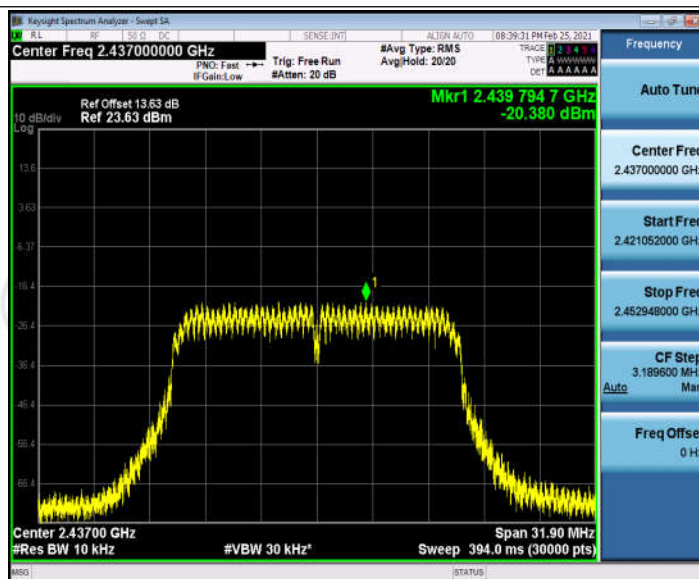




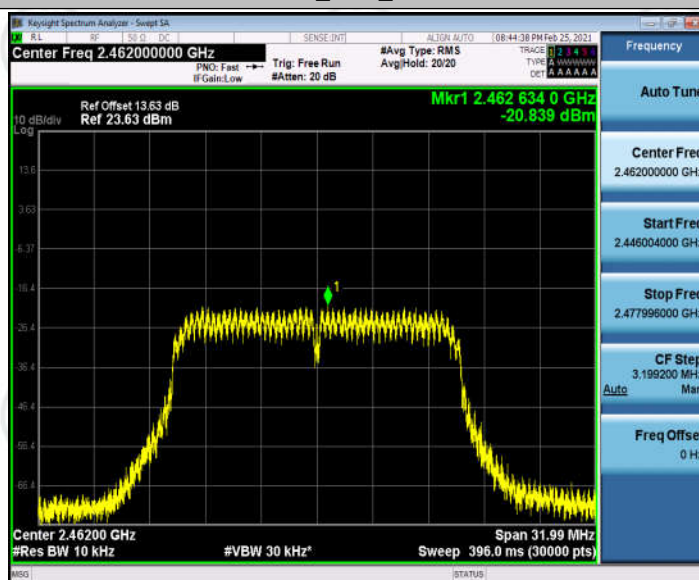
11B_Ant1_2462



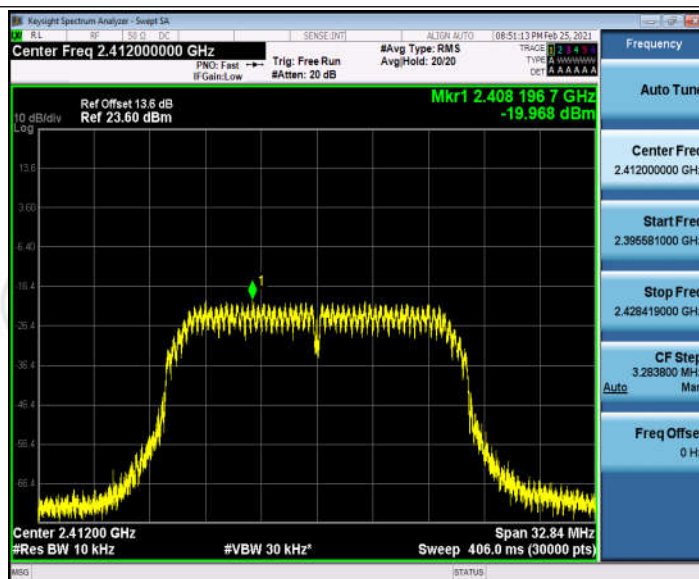
11G_Ant1_2412



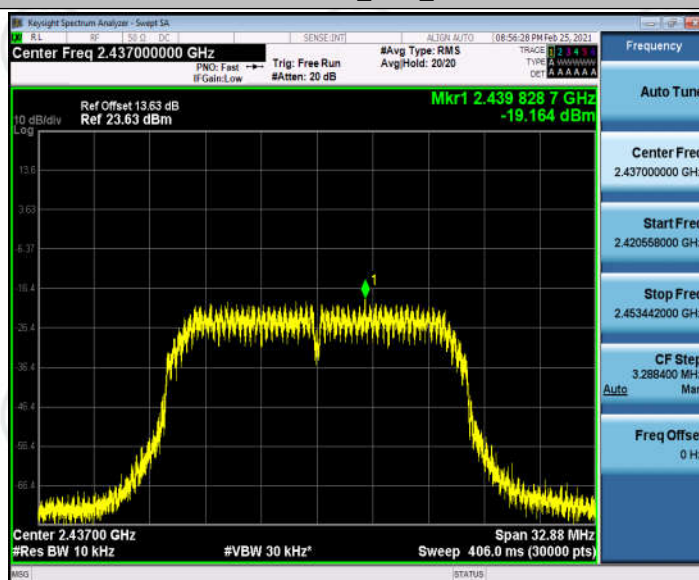
11G_Ant1_2437



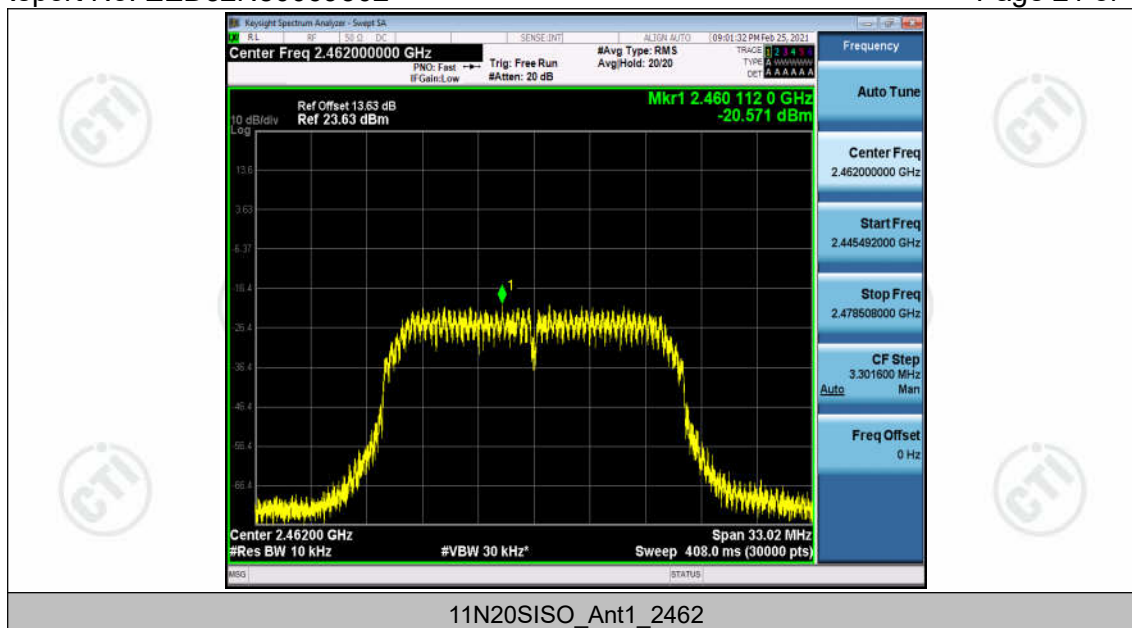
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

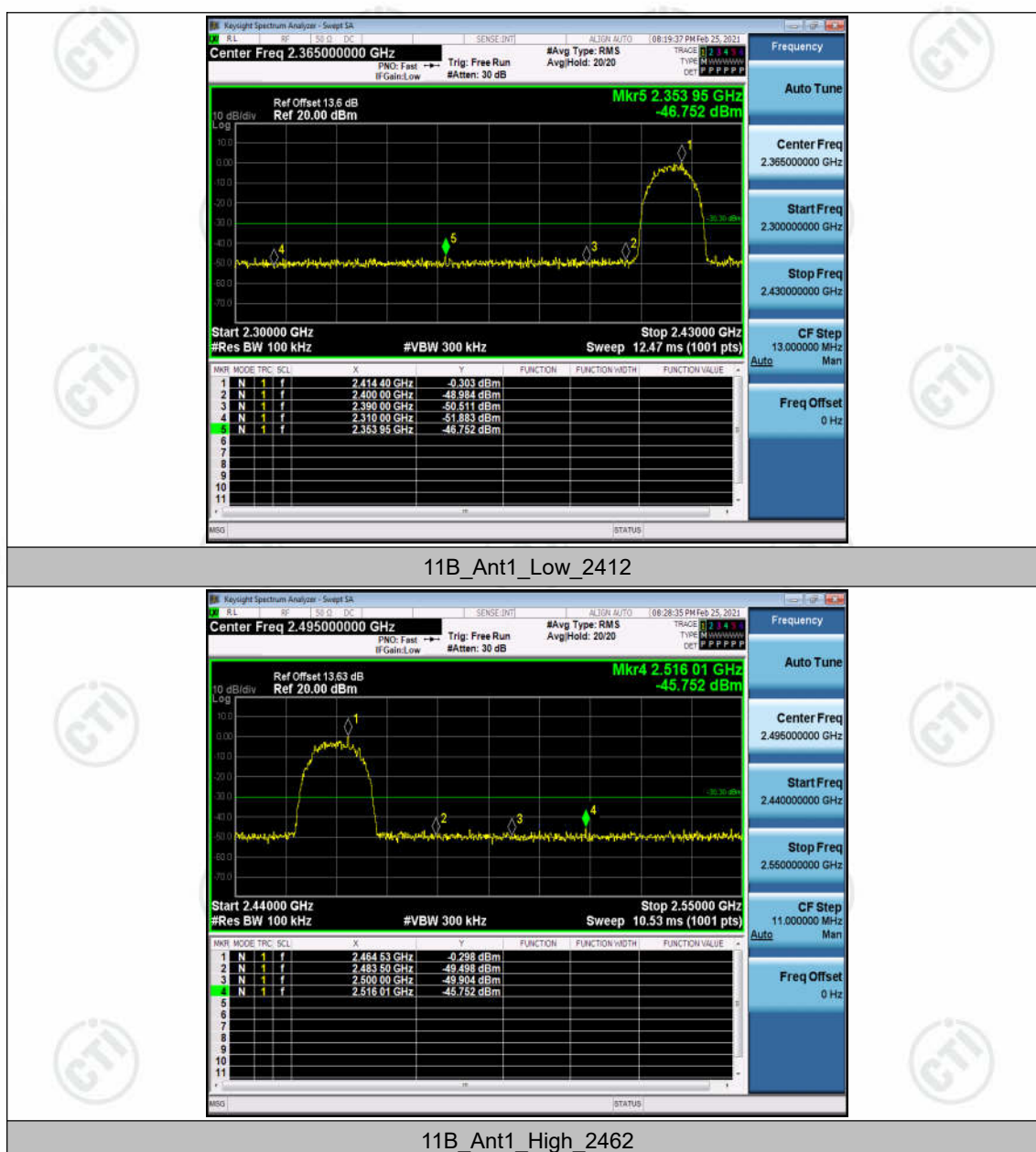


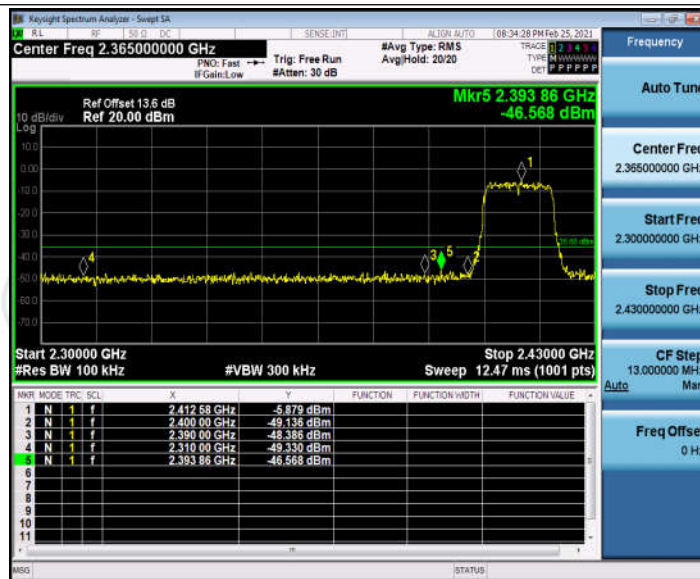
Appendix E: Band edge measurements

Test Result

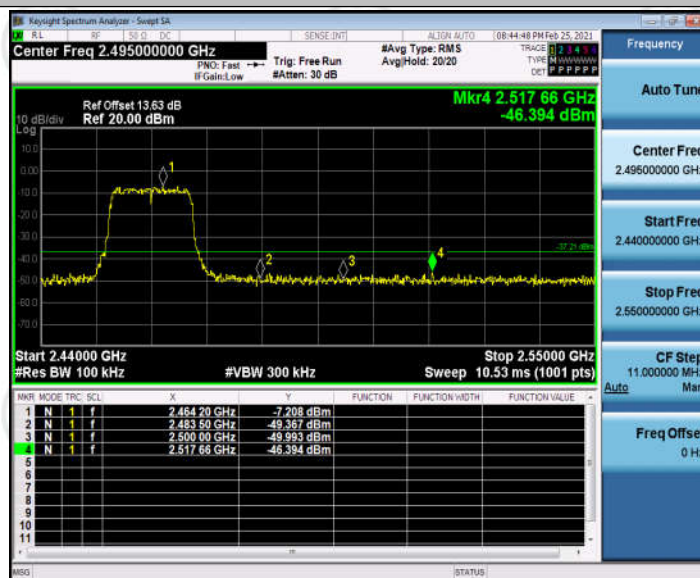
Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.30	-46.75	<=-30.3	PASS
		High	2462	-0.30	-45.75	<=-30.3	PASS
11G	Ant1	Low	2412	-5.88	-46.57	<=-35.88	PASS
		High	2462	-7.21	-46.39	<=-37.21	PASS
11N20SISO	Ant1	Low	2412	-5.53	-45.96	<=-35.53	PASS
		High	2462	-7.14	-46.34	<=-37.14	PASS

Test Graphs

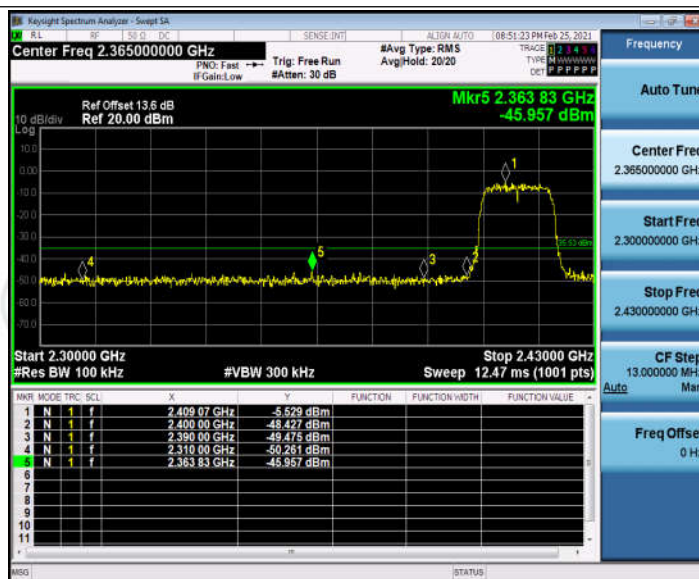




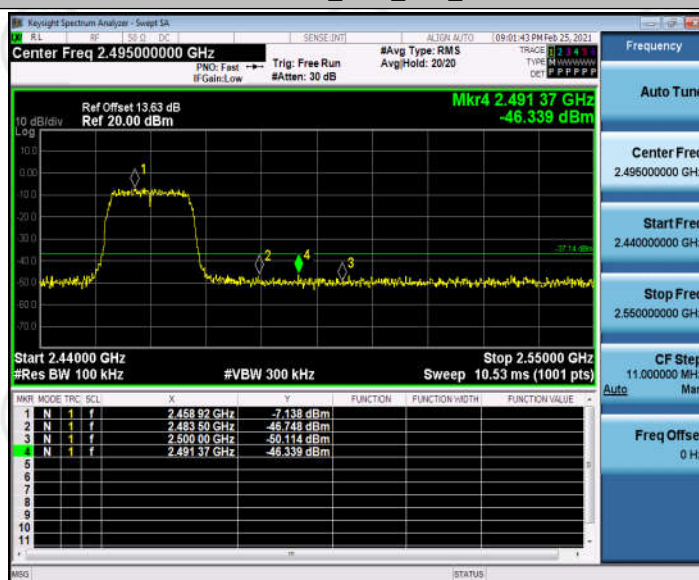
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



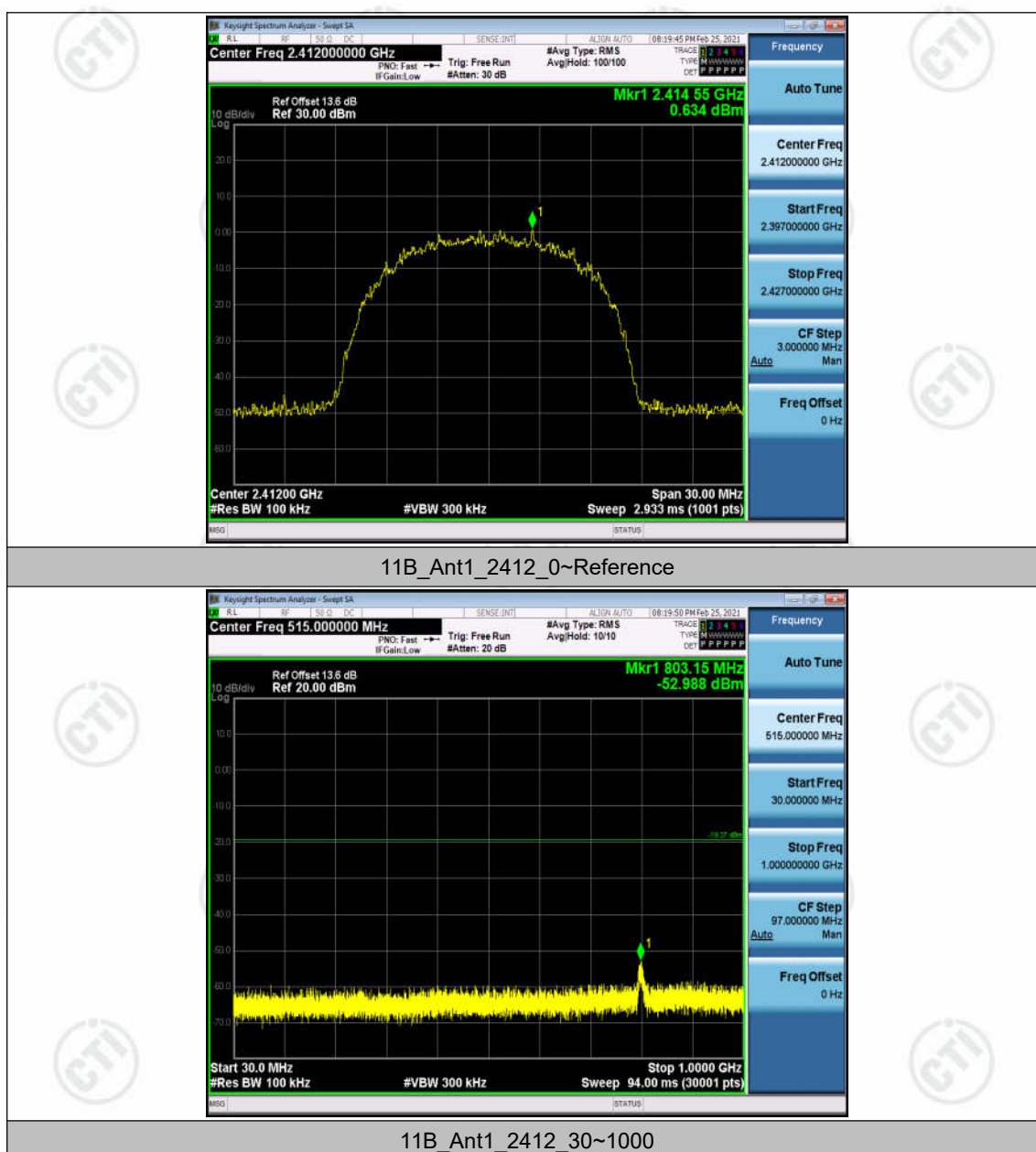
11N20SISO_Ant1_High_2462

Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.63	0.63	---	PASS
			30~1000	30~1000	-52.988	<=-19.366	PASS
			1000~26500	1000~26500	-49.718	<=-19.366	PASS
		2437	Reference	0.59	0.59	---	PASS
			30~1000	30~1000	-52.542	<=-19.412	PASS
			1000~26500	1000~26500	-49.444	<=-19.412	PASS
		2462	Reference	-0.34	-0.34	---	PASS
			30~1000	30~1000	-51.996	<=-20.335	PASS
			1000~26500	1000~26500	-49.96	<=-20.335	PASS
11G	Ant1	2412	Reference	-5.30	-5.30	---	PASS
			30~1000	30~1000	-53.858	<=-25.295	PASS
			1000~26500	1000~26500	-49.758	<=-25.295	PASS
		2437	Reference	-6.25	-6.25	---	PASS
			30~1000	30~1000	-54.463	<=-26.247	PASS
			1000~26500	1000~26500	-48.843	<=-26.247	PASS
		2462	Reference	-6.30	-6.30	---	PASS
			30~1000	30~1000	-54.788	<=-26.304	PASS
			1000~26500	1000~26500	-48.967	<=-26.304	PASS
11N20SISO	Ant1	2412	Reference	-5.46	-5.46	---	PASS
			30~1000	30~1000	-54.47	<=-25.463	PASS
			1000~26500	1000~26500	-49.063	<=-25.463	PASS
		2437	Reference	-5.21	-5.21	---	PASS
			30~1000	30~1000	-55.626	<=-25.205	PASS
			1000~26500	1000~26500	-49.166	<=-25.205	PASS
		2462	Reference	-5.93	-5.93	---	PASS
			30~1000	30~1000	-54.449	<=-25.928	PASS
			1000~26500	1000~26500	-49.329	<=-25.928	PASS

Test Graphs





11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



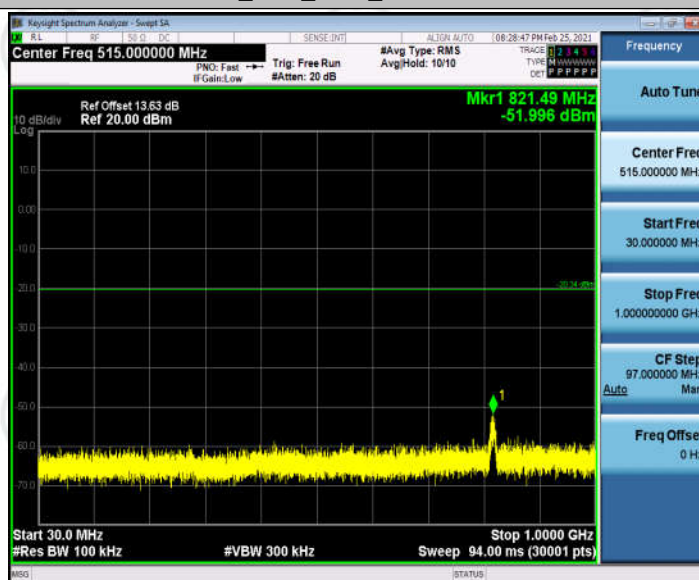
11B_Ant1_2437_30~1000



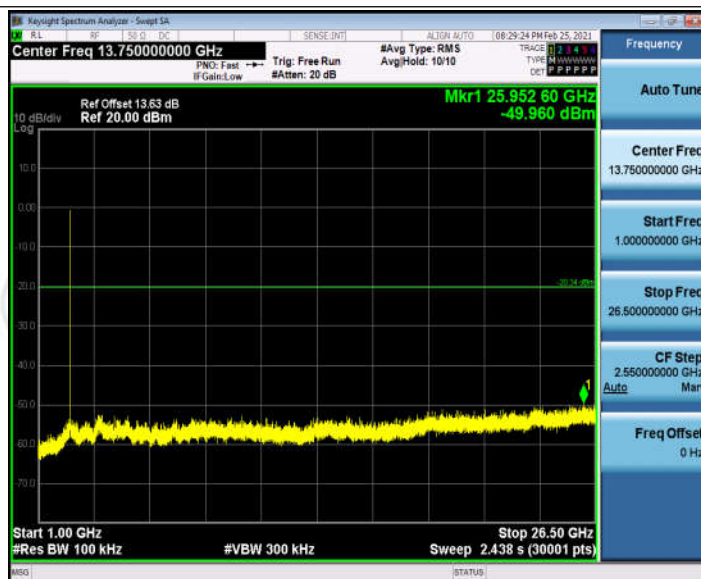
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



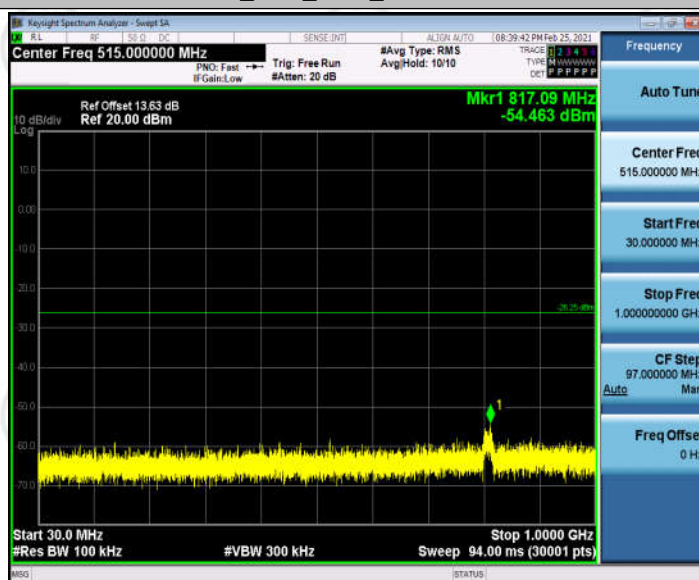
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



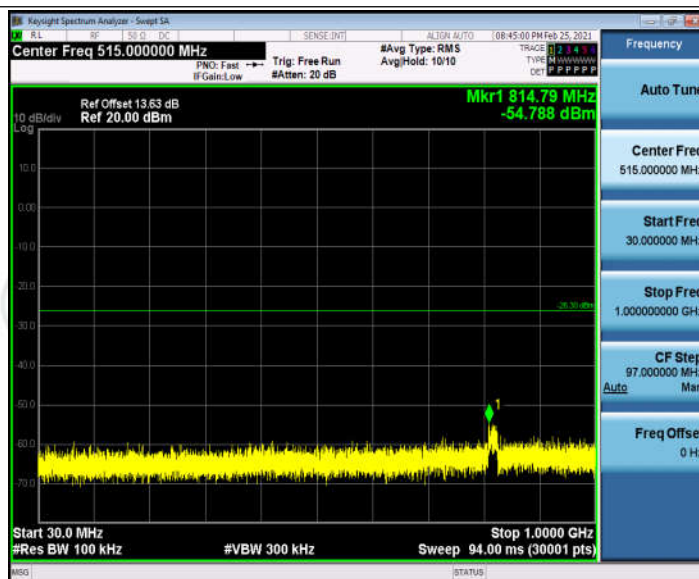
11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



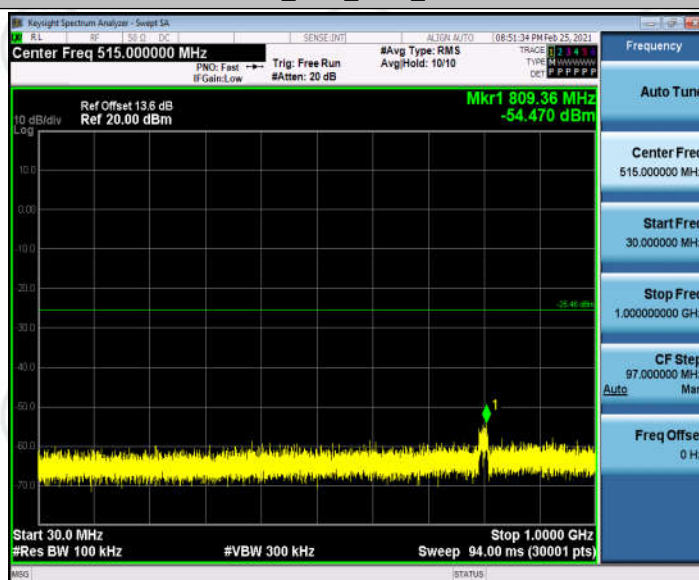
11G_Ant1_2462_30~1000



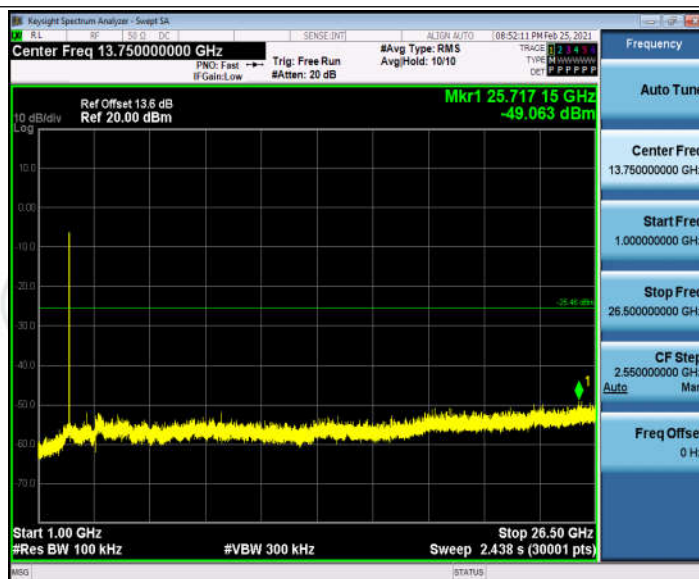
11G_Ant1_2462_1000~26500



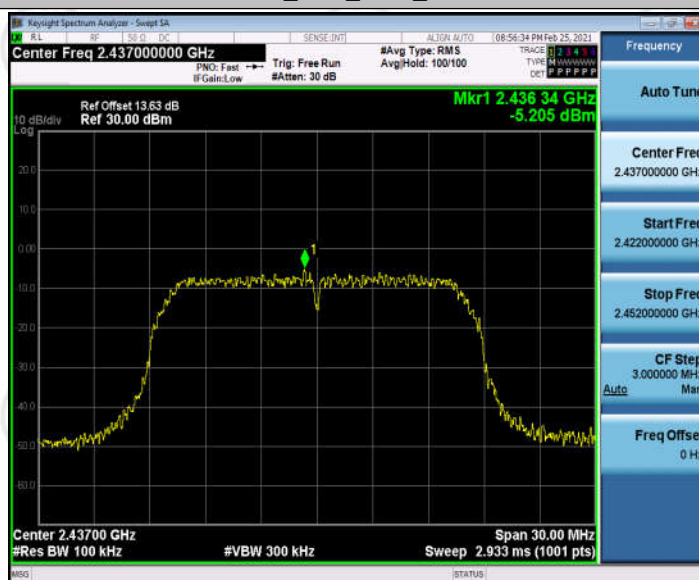
11N20SISO_Ant1_2412_0~Reference



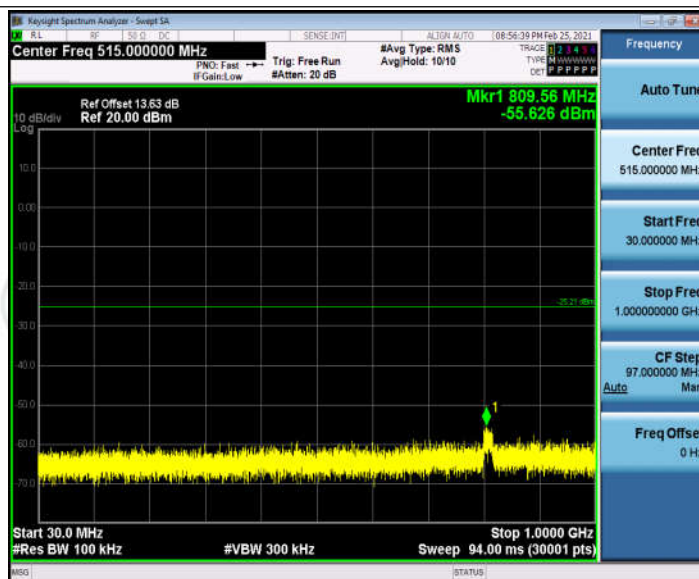
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



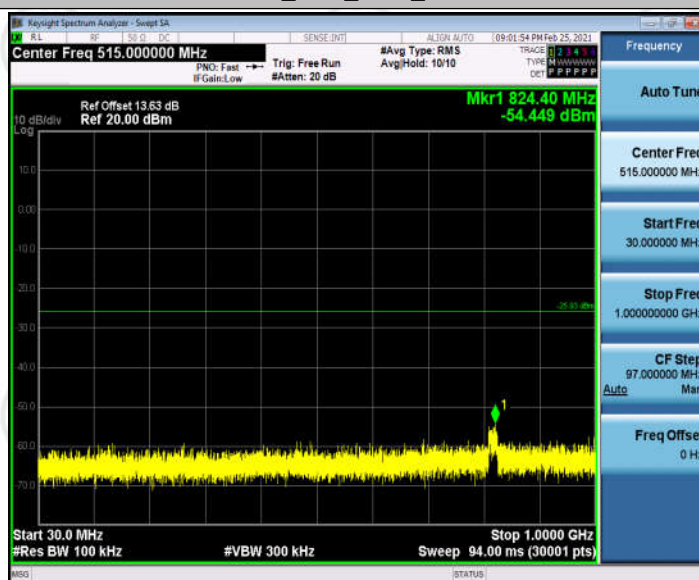
11N20SISO_Ant1_2437_30~1000



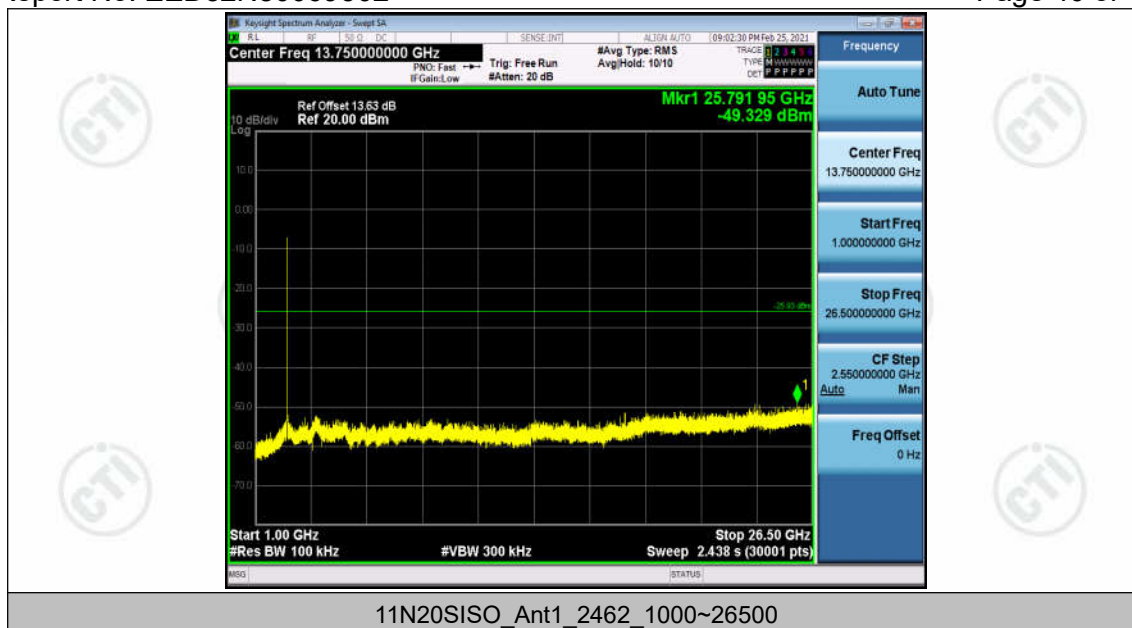
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000

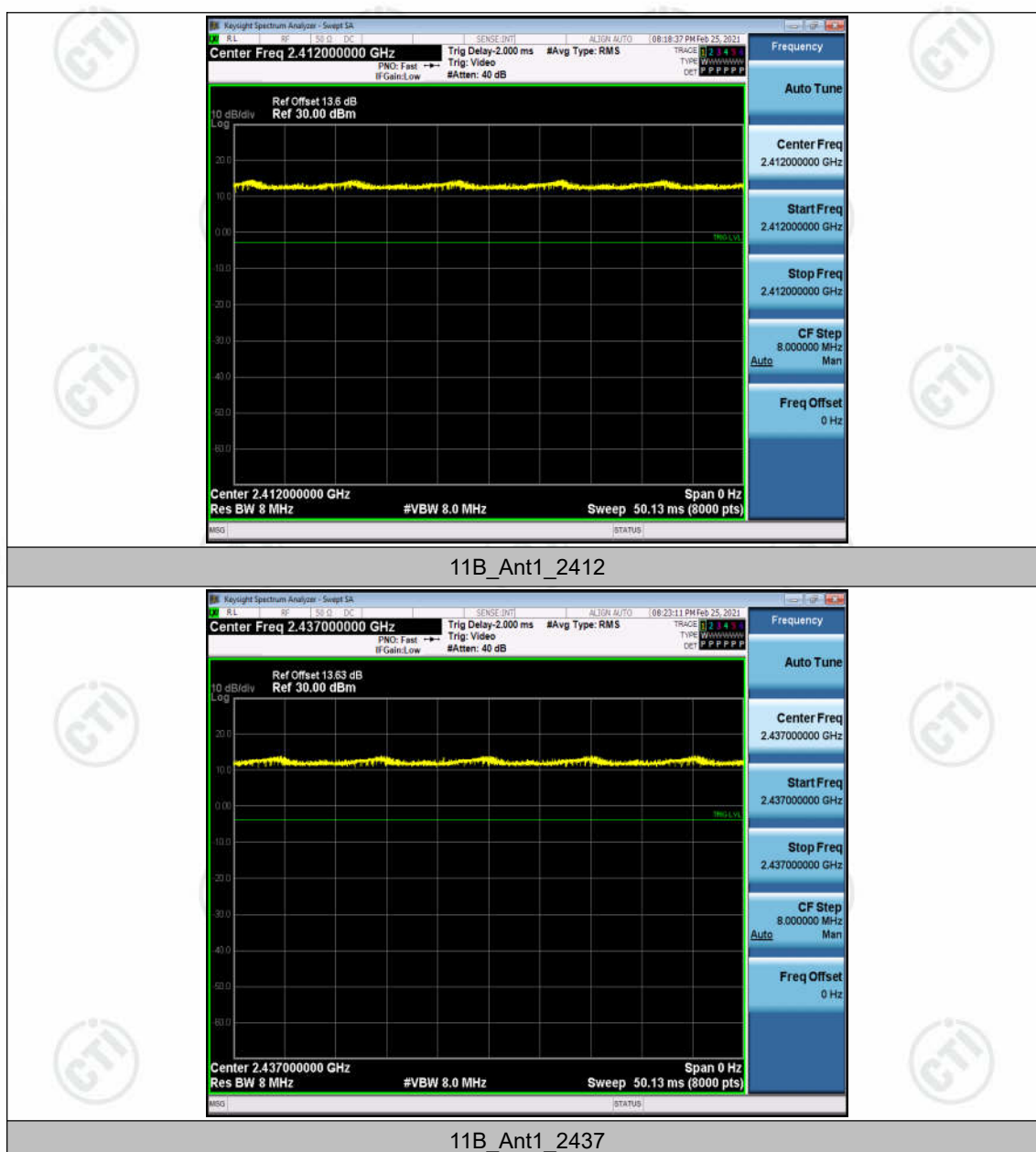


Appendix G: DutyCycle

Test Result

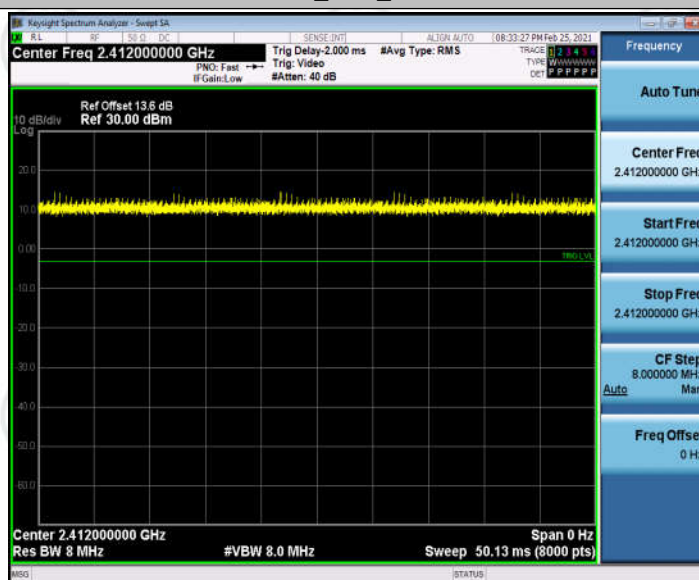
Test Mode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	50.00	50.00	100.00	---	PASS
		2437	50.00	50.00	100.00	---	PASS
		2462	50.00	50.00	100.00	---	PASS
11G	Ant1	2412	50.00	50.00	100.00	---	PASS
		2437	50.00	50.00	100.00	---	PASS
		2462	50.00	50.00	100.00	---	PASS
11N20SISO	Ant1	2412	50.00	50.00	100.00	---	PASS
		2437	50.00	50.00	100.00	---	PASS
		2462	50.00	50.00	100.00	---	PASS

Test Graphs

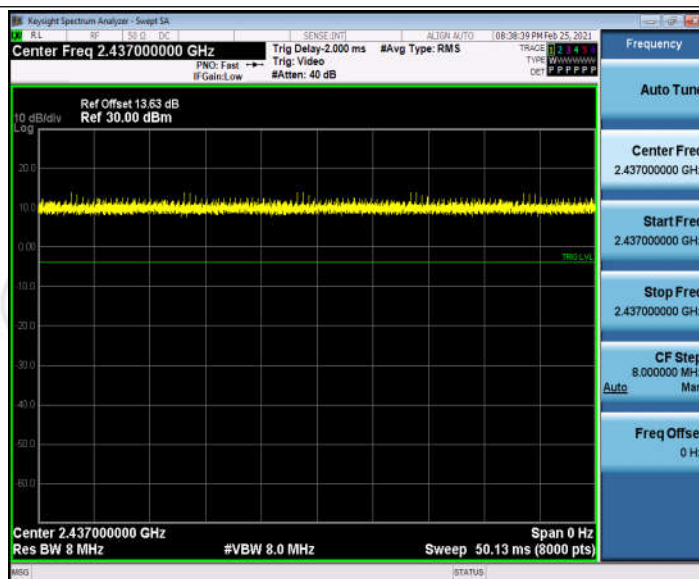




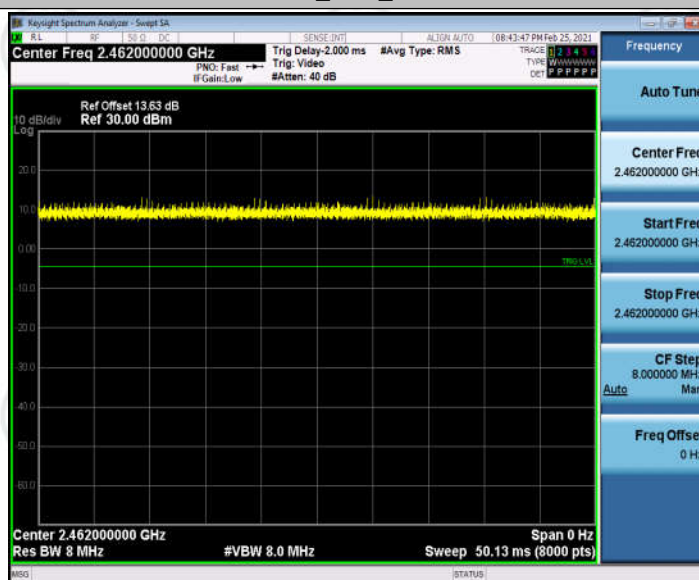
11B_Ant1_2462



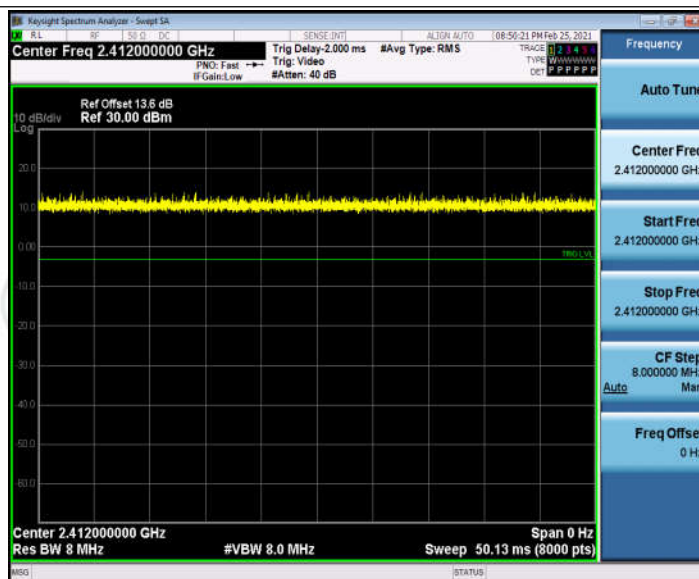
11G_Ant1_2412



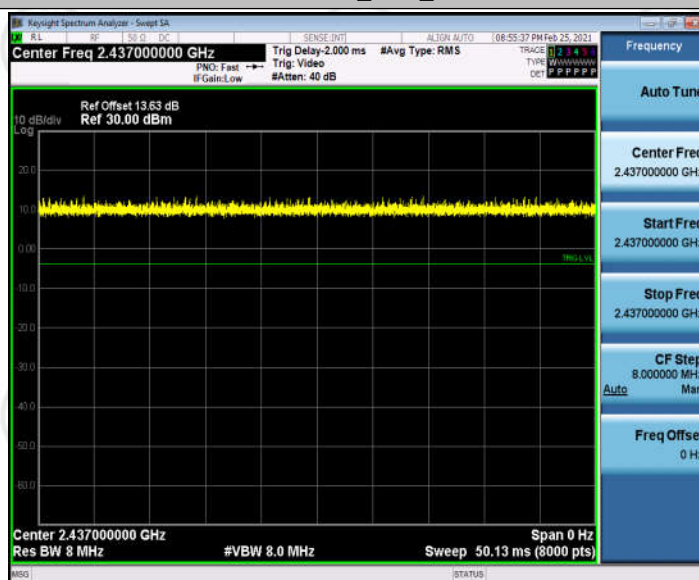
11G_Ant1_2437



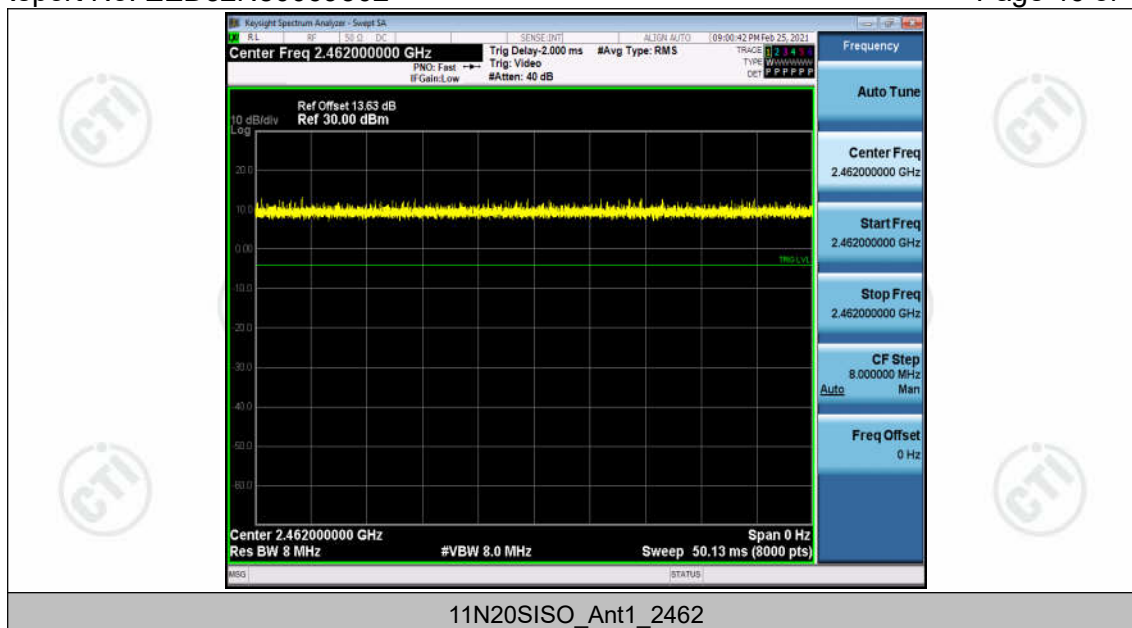
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



*** End of Report ***