

Appendix: 2.4G WIFI

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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	8.640	2407.480	2416.120	0.5	PASS
		2437	9.160	2432.440	2441.600	0.5	PASS
		2462	10.120	2456.920	2467.040	0.5	PASS
11G	Ant1	2412	16.480	2403.800	2420.280	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.440	2453.800	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.160	2403.400	2420.560	0.5	PASS
		2437	16.640	2428.840	2445.480	0.5	PASS
		2462	17.400	2453.440	2470.840	0.5	PASS
11N40SISO	Ant1	2422	34.880	2404.400	2439.280	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.280	2434.400	2469.680	0.5	PASS

Test Graphs

11B_Ant1_2412



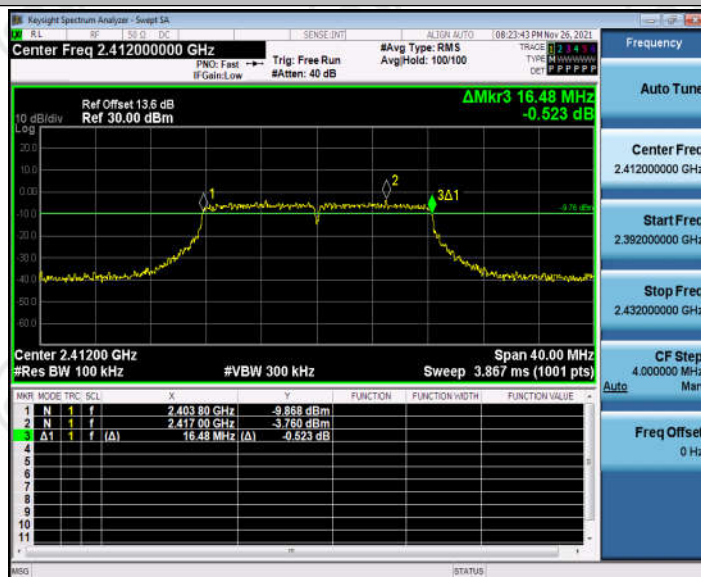
11B_Ant1_2437



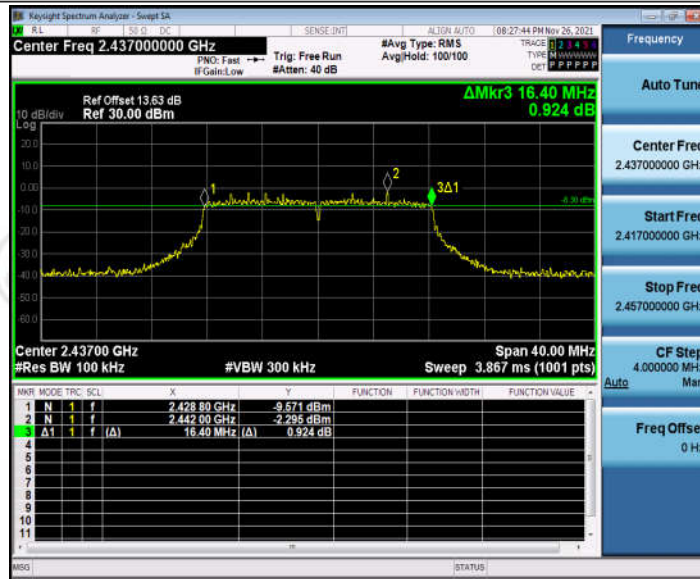
11B_Ant1_2462



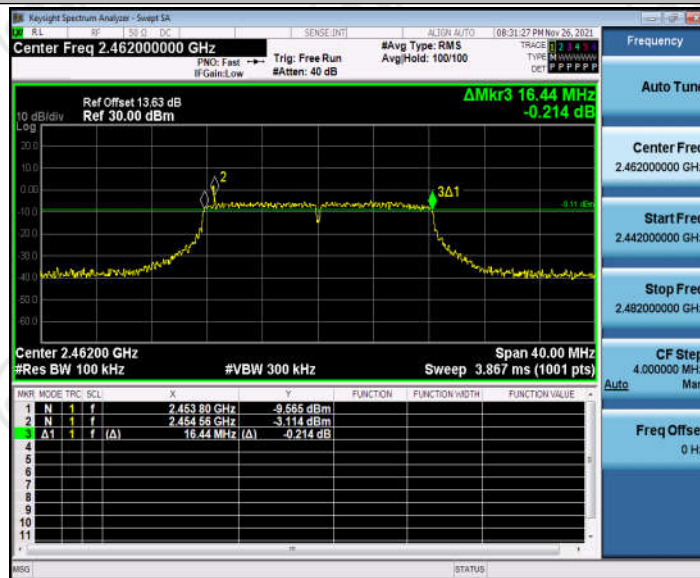
11G_Ant1_2412



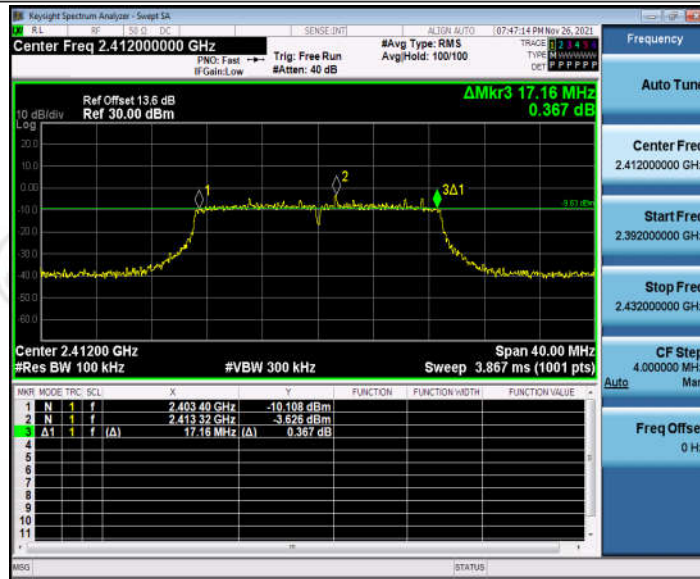
11G_Ant1_2437



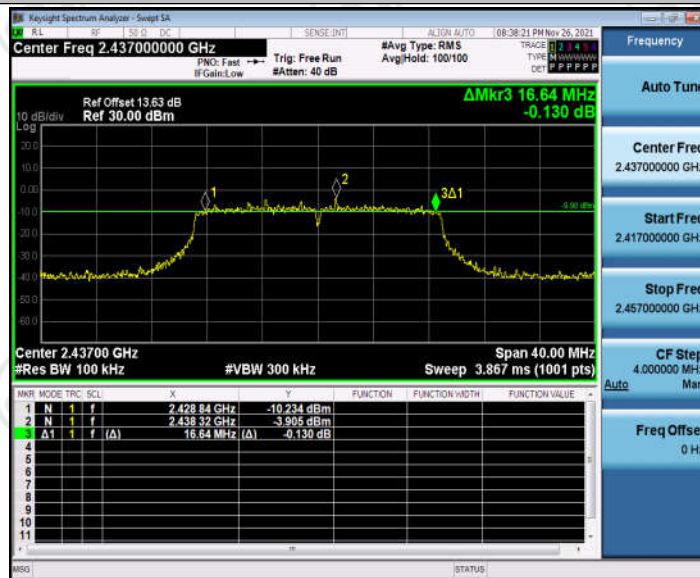
11G_Ant1_2462



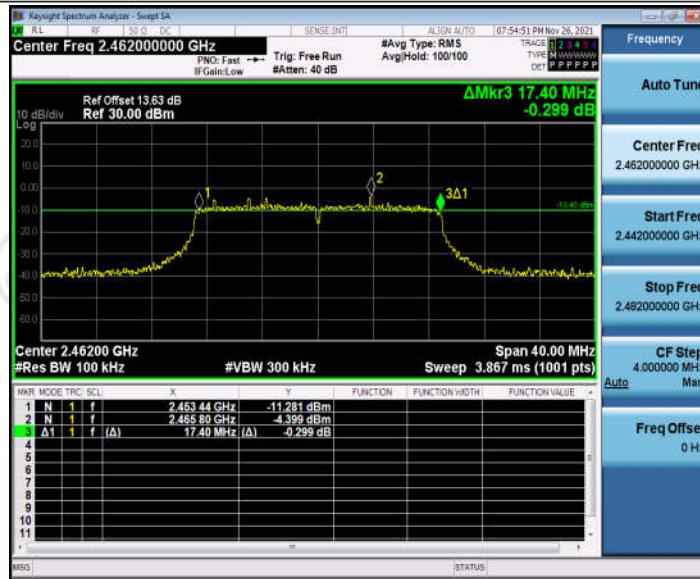
11N20SISO_Ant1_2412



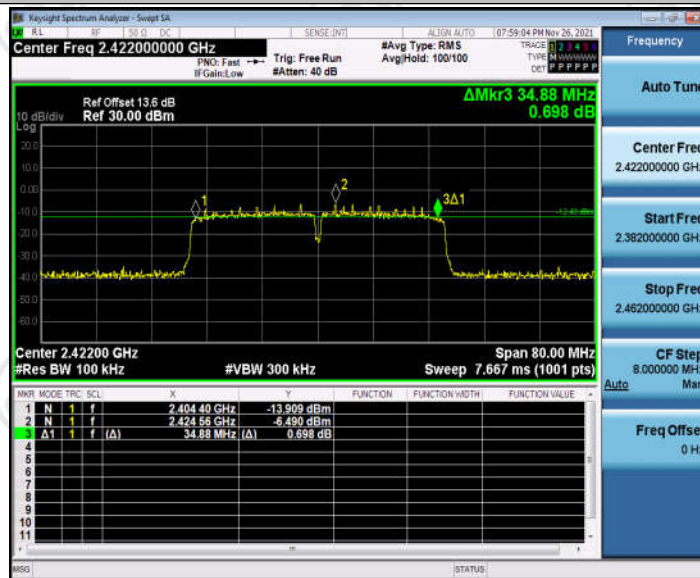
11N20SISO_Ant1_2437



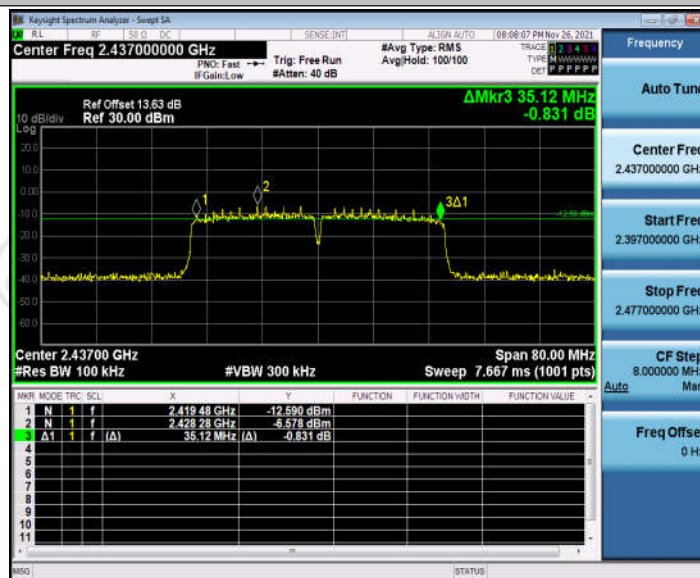
11N20SISO_Ant1_2462



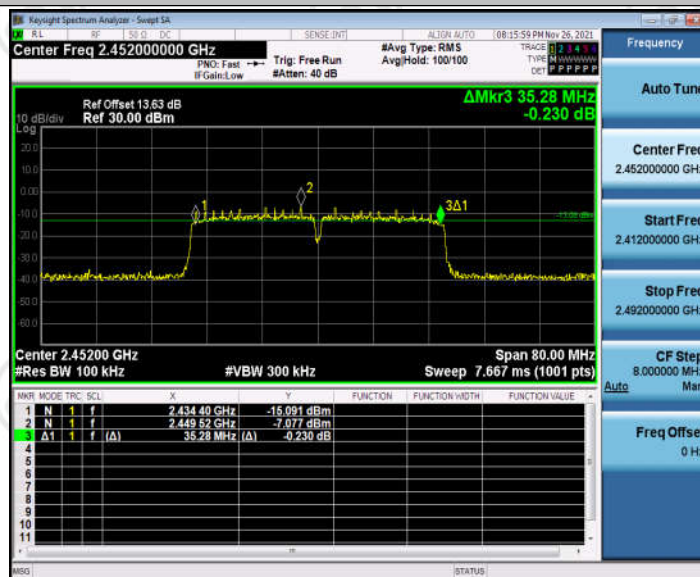
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

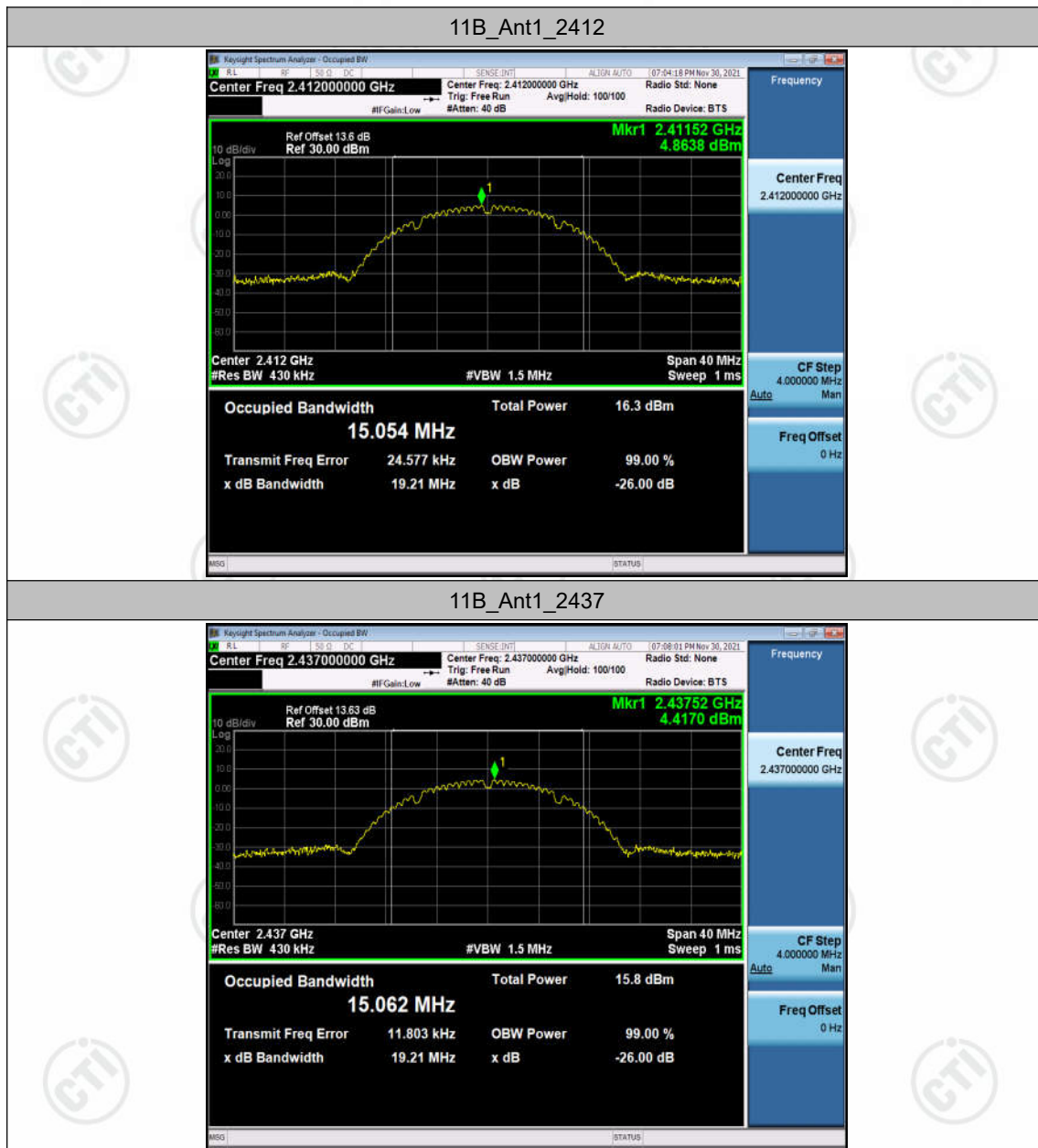


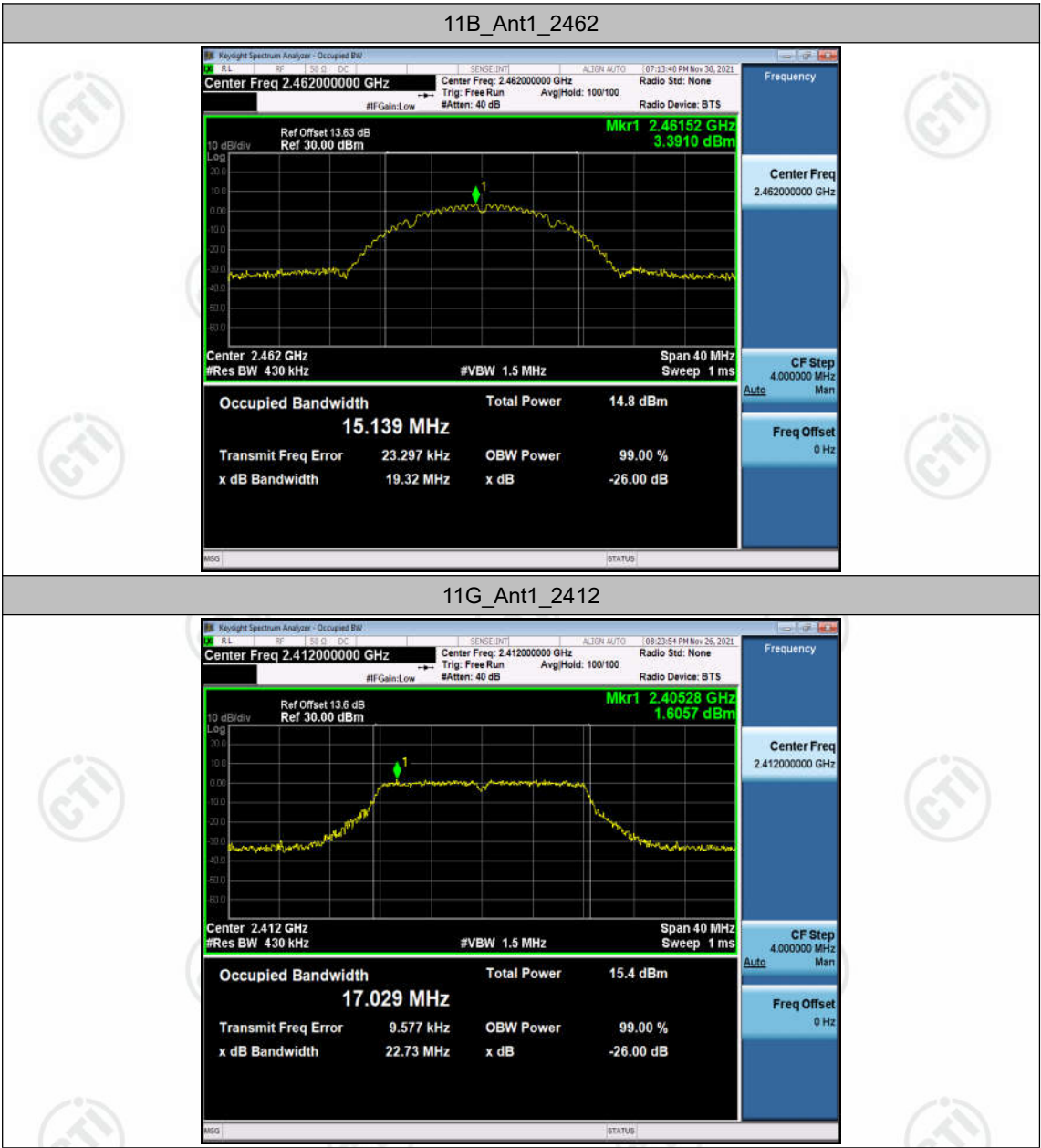
Appendix B: Occupied Channel Bandwidth

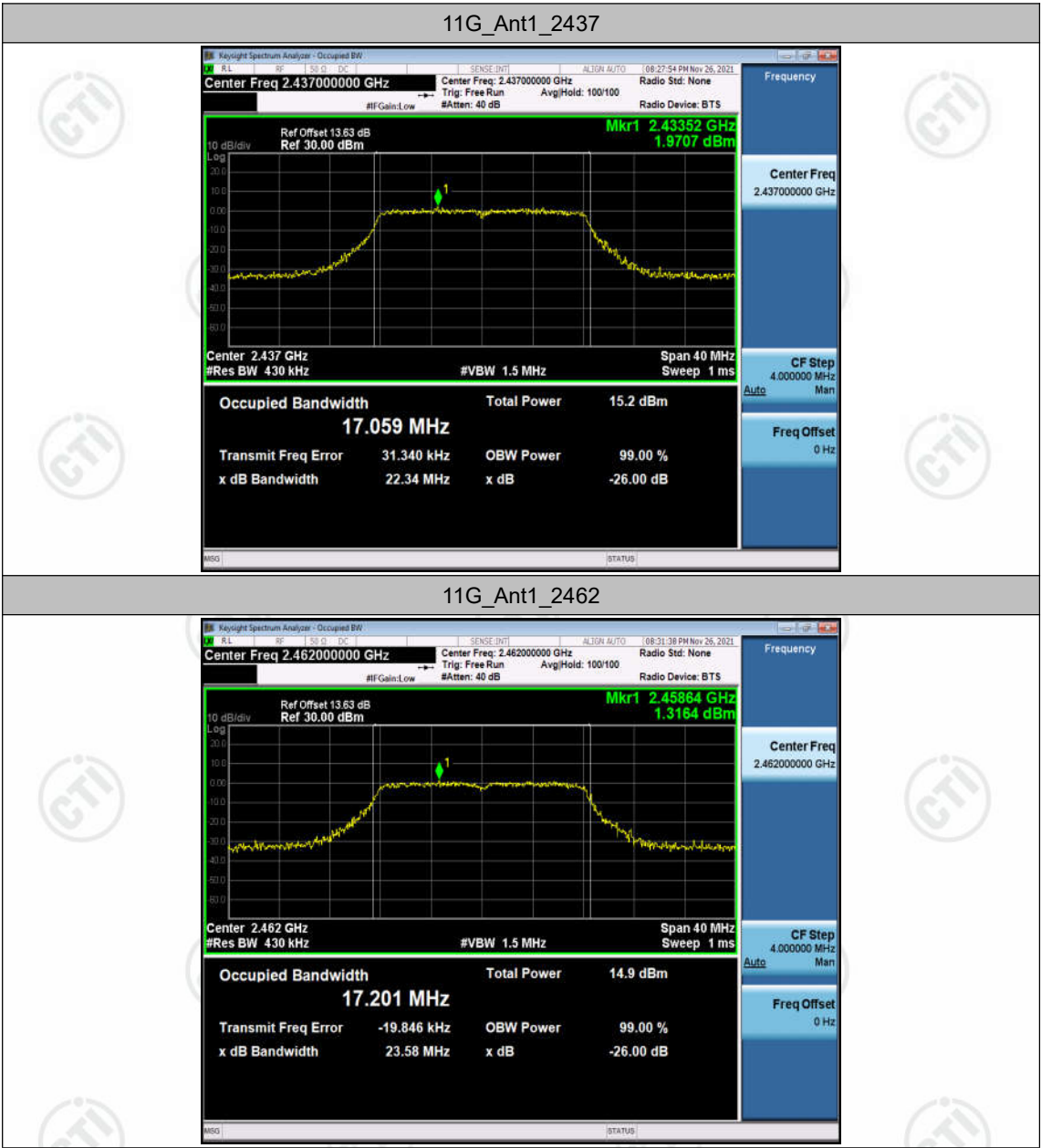
Test Result

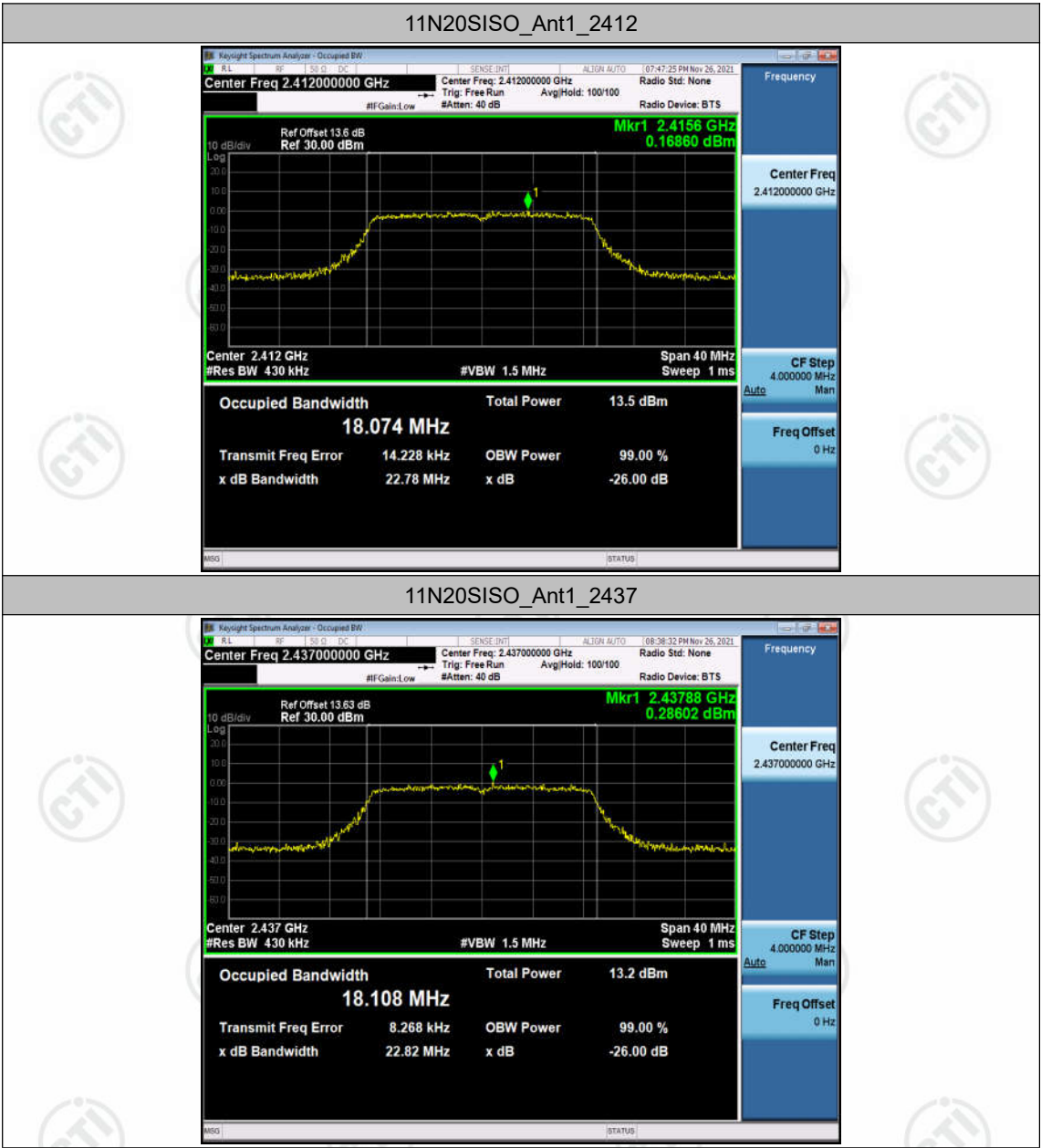
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.054	2404.498	2419.552	---	PASS
		2437	15.062	2429.481	2444.543	---	PASS
		2462	15.139	2454.454	2469.593	---	PASS
11G	Ant1	2412	17.029	2403.495	2420.524	---	PASS
		2437	17.059	2428.502	2445.561	---	PASS
		2462	17.201	2453.380	2470.581	---	PASS
11N20SISO	Ant1	2412	18.074	2402.977	2421.051	---	PASS
		2437	18.108	2427.954	2446.062	---	PASS
		2462	18.168	2452.937	2471.105	---	PASS
11N40SISO	Ant1	2422	35.970	2404.067	2440.037	---	PASS
		2437	35.953	2419.049	2455.002	---	PASS
		2452	36.005	2434.008	2470.013	---	PASS

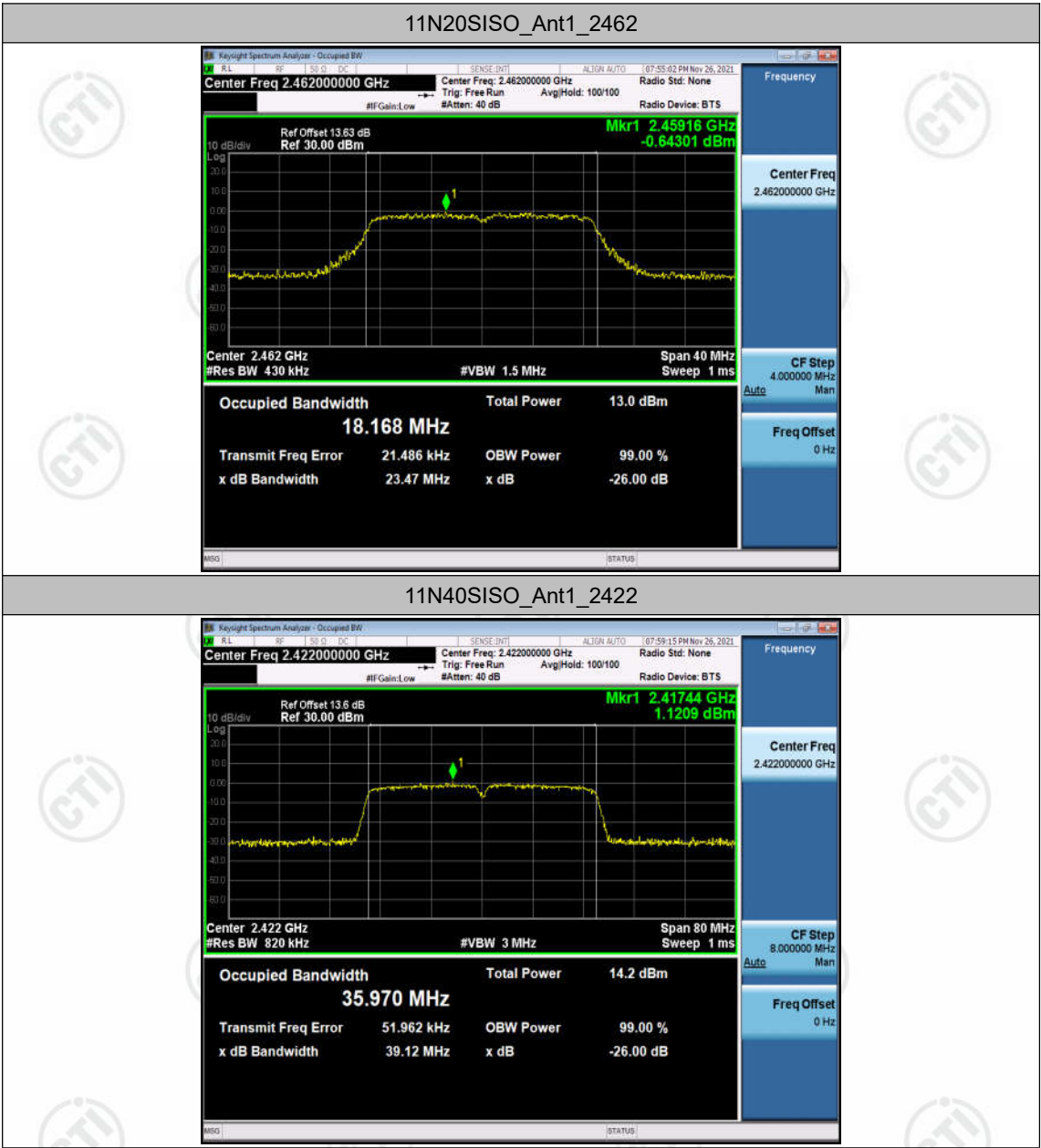
Test Graphs

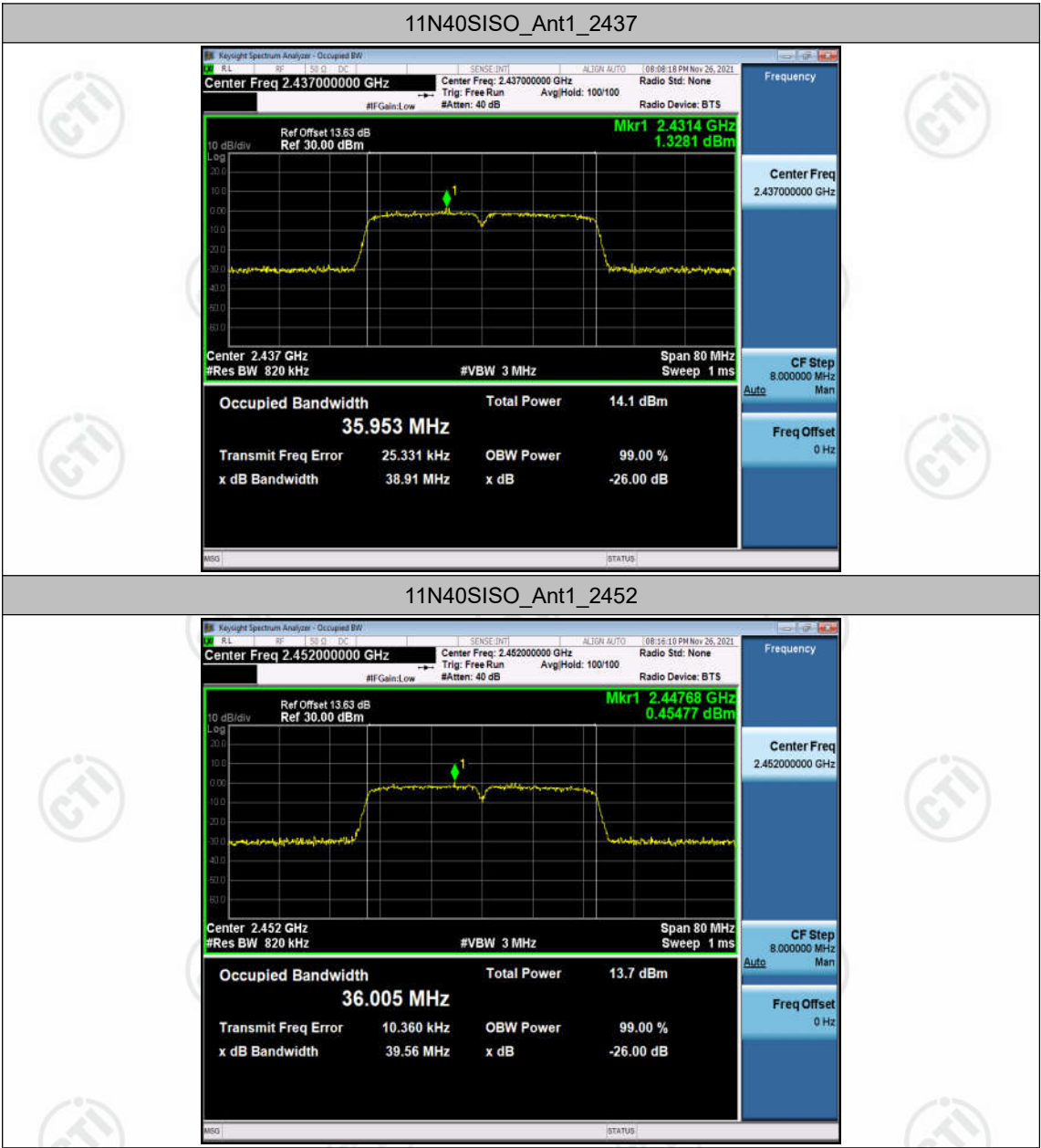












Appendix C: Maximum conducted output power

Test Result

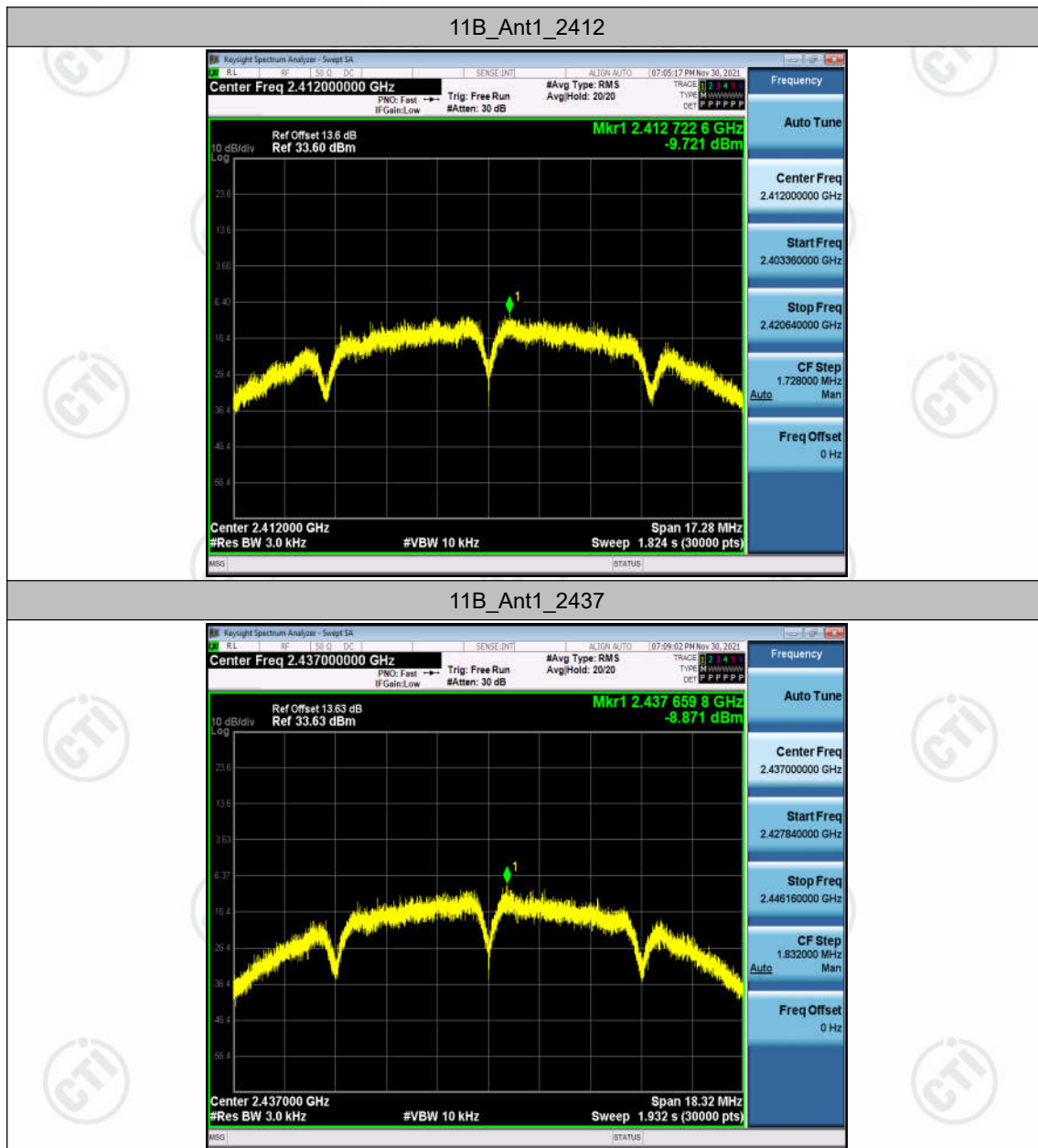
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.61	<=30	PASS
		2437	15.30	<=30	PASS
		2462	14.49	<=30	PASS
11G	Ant1	2412	16.43	<=30	PASS
		2437	16.07	<=30	PASS
		2462	15.82	<=30	PASS
11N20SISO	Ant1	2412	14.36	<=30	PASS
		2437	14.01	<=30	PASS
		2462	13.98	<=30	PASS
11N40SISO	Ant1	2422	14.49	<=30	PASS
		2437	14.32	<=30	PASS
		2452	13.94	<=30	PASS

Appendix D: Maximum power spectral density

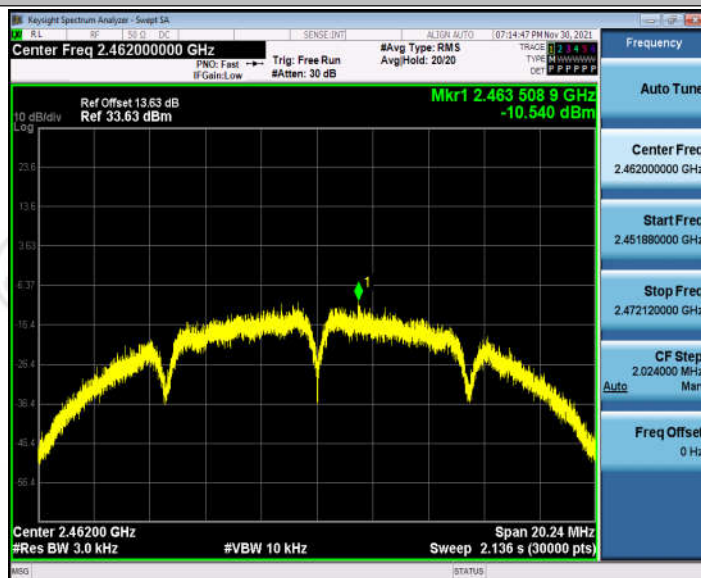
Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.72	<=8	PASS
		2437	-8.87	<=8	PASS
		2462	-10.54	<=8	PASS
11G	Ant1	2412	-15.99	<=8	PASS
		2437	-15.86	<=8	PASS
		2462	-16.31	<=8	PASS
11N20SISO	Ant1	2412	-18.31	<=8	PASS
		2437	-18.31	<=8	PASS
		2462	-18.16	<=8	PASS
11N40SISO	Ant1	2422	-20.97	<=8	PASS
		2437	-20.59	<=8	PASS
		2452	-21.36	<=8	PASS

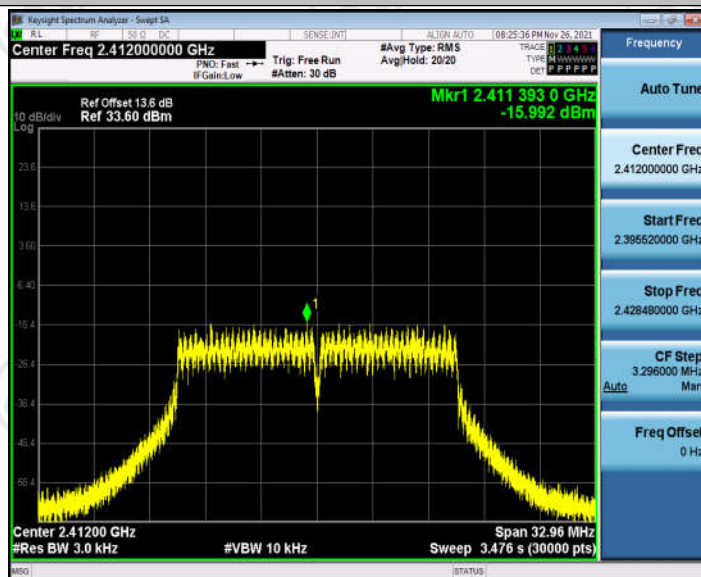
Test Graphs



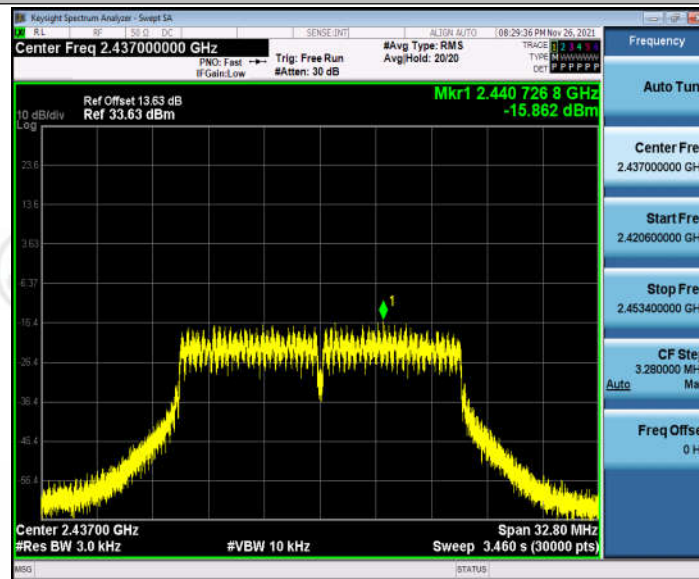
11B_Ant1_2462



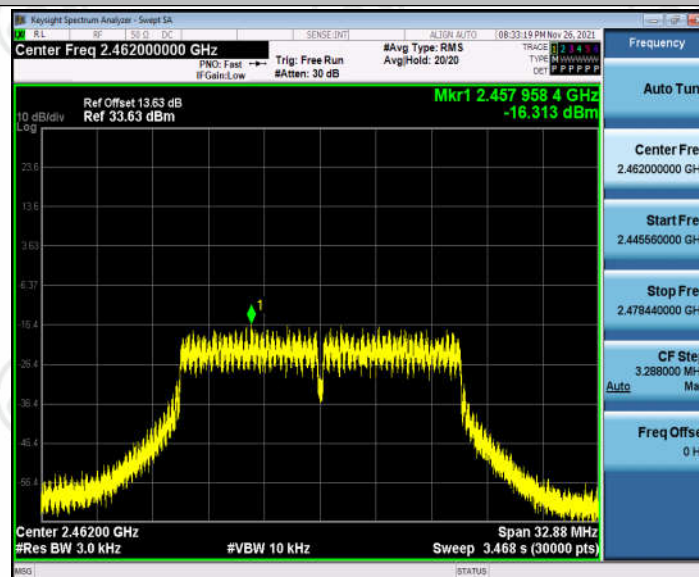
11G_Ant1_2412



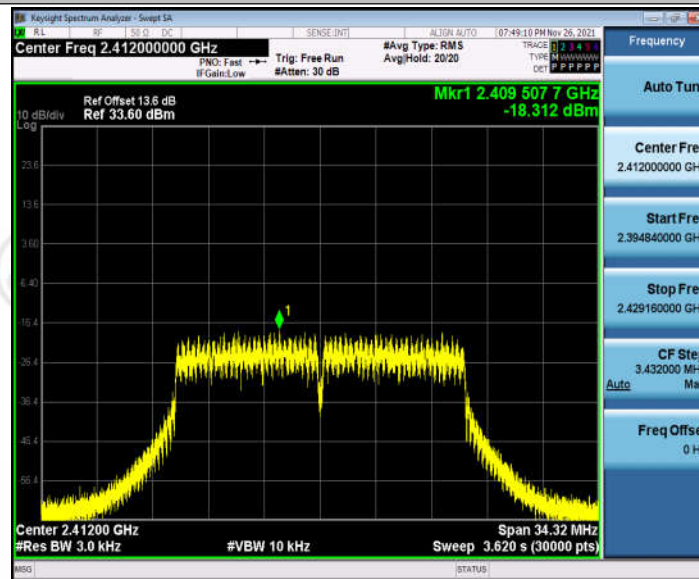
11G_Ant1_2437



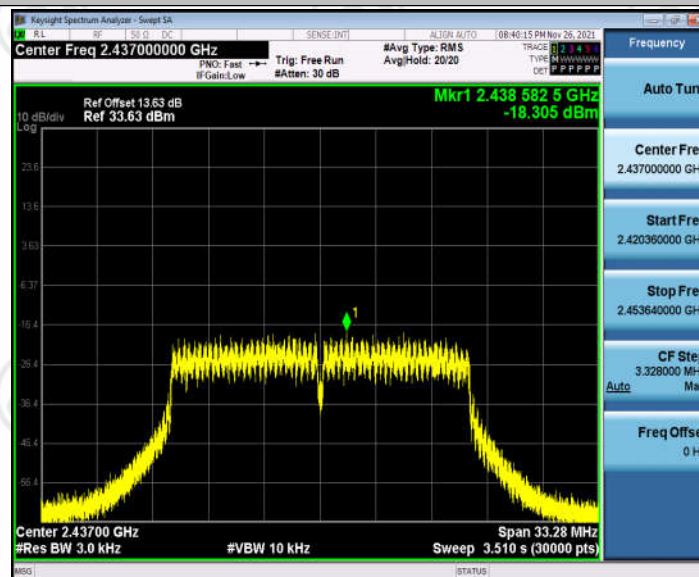
11G_Ant1_2462



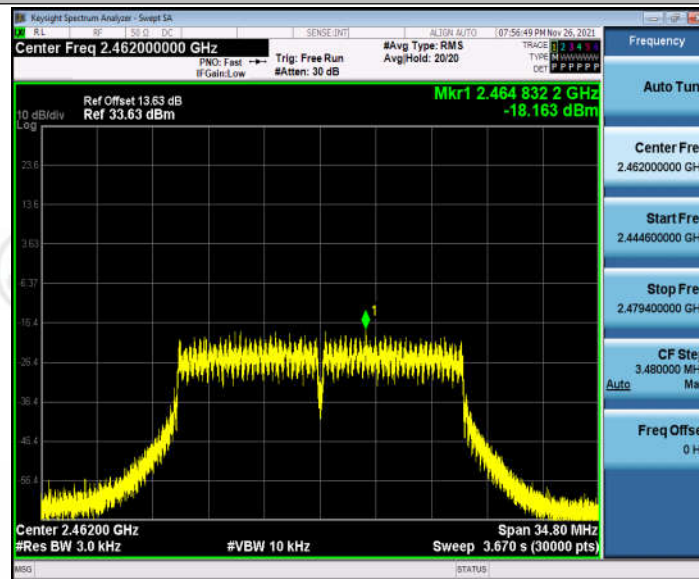
11N20SISO_Ant1_2412



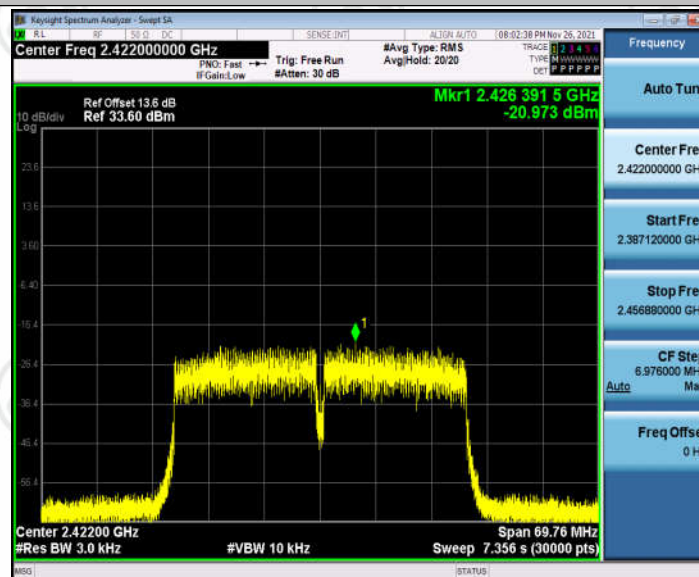
11N20SISO_Ant1_2437



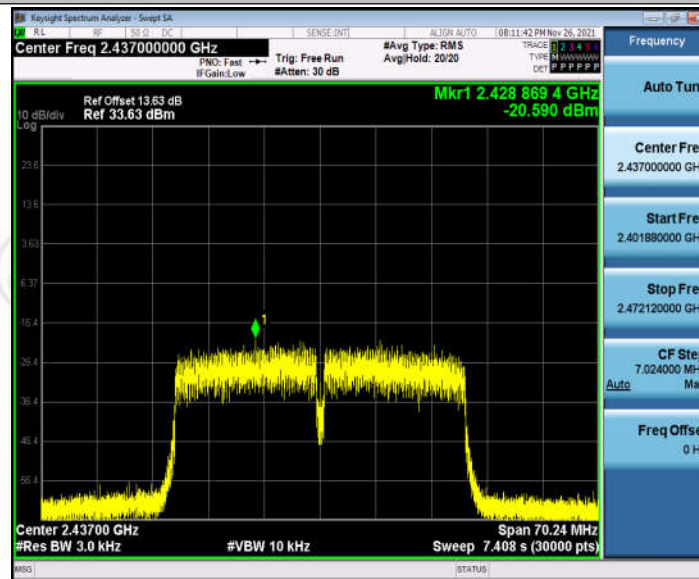
11N20SISO_Ant1_2462



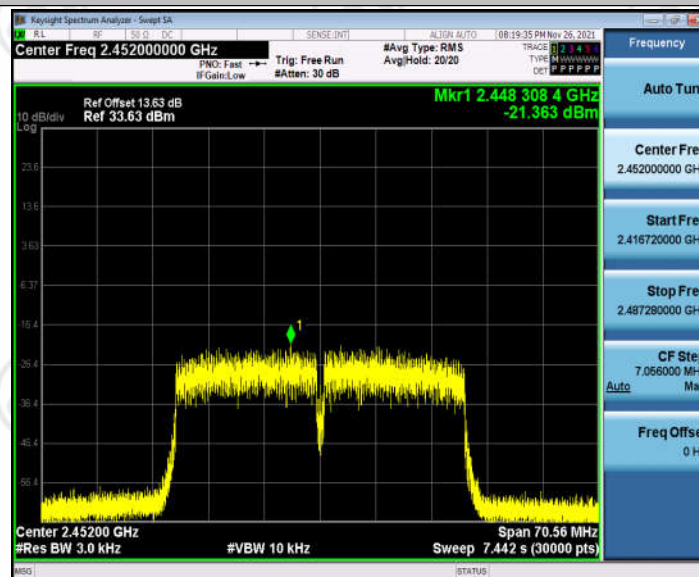
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



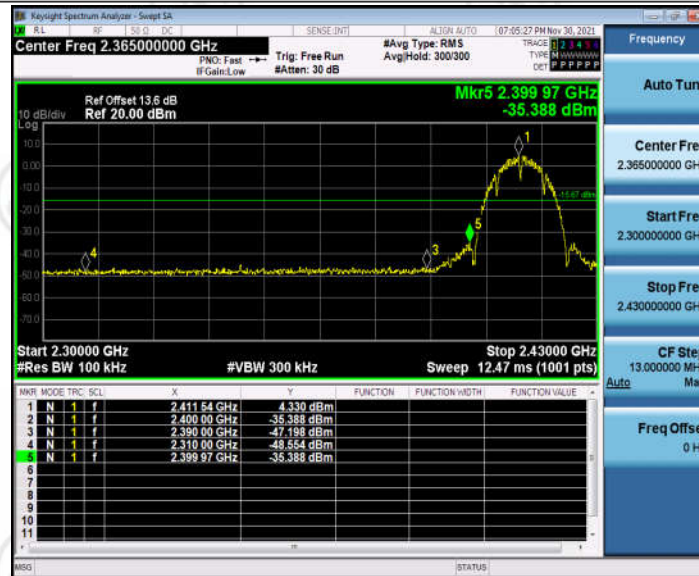
Appendix E: Band edge measurements

Test Result

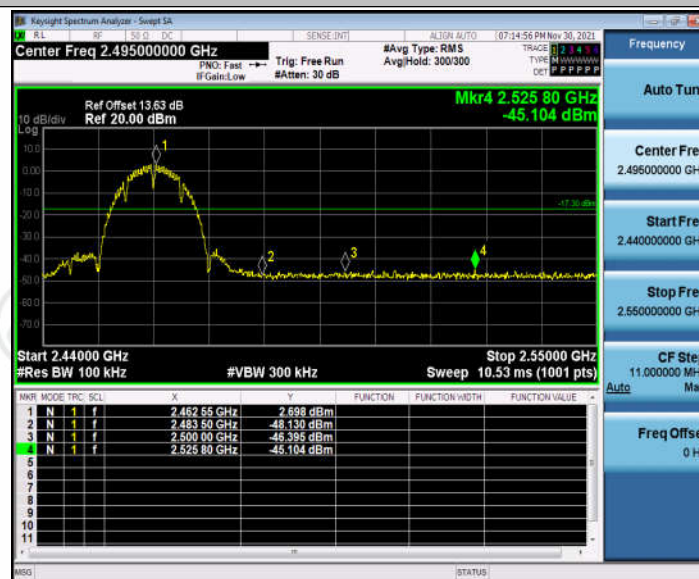
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.33	-35.39	<=-15.67	PASS
		High	2462	2.70	-45.1	<=-17.3	PASS
11G	Ant1	Low	2412	-2.40	-37.69	<=-22.4	PASS
		High	2462	-2.22	-45.07	<=-22.22	PASS
11N20SISO	Ant1	Low	2412	-4.00	-38.45	<=-24	PASS
		High	2462	-4.02	-45.26	<=-24.02	PASS
11N40SISO	Ant1	Low	2422	-6.56	-42.84	<=-26.56	PASS
		High	2452	-7.07	-44.73	<=-27.07	PASS

Test Graphs

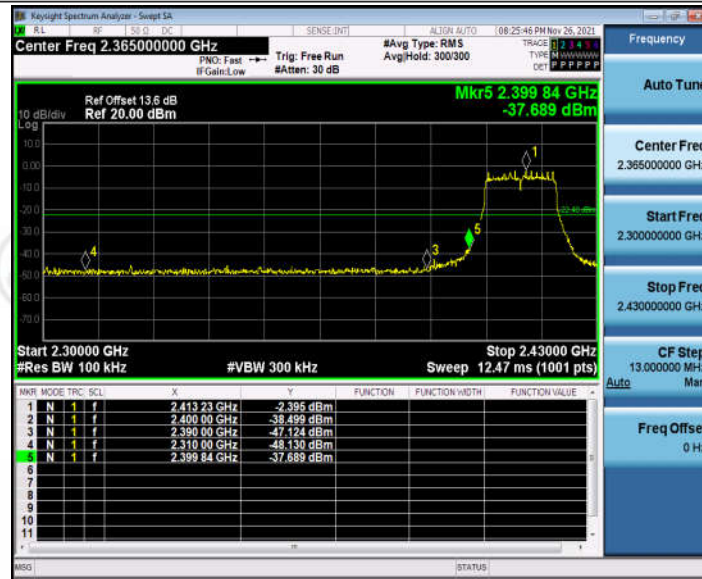
11B_Ant1_Low_2412



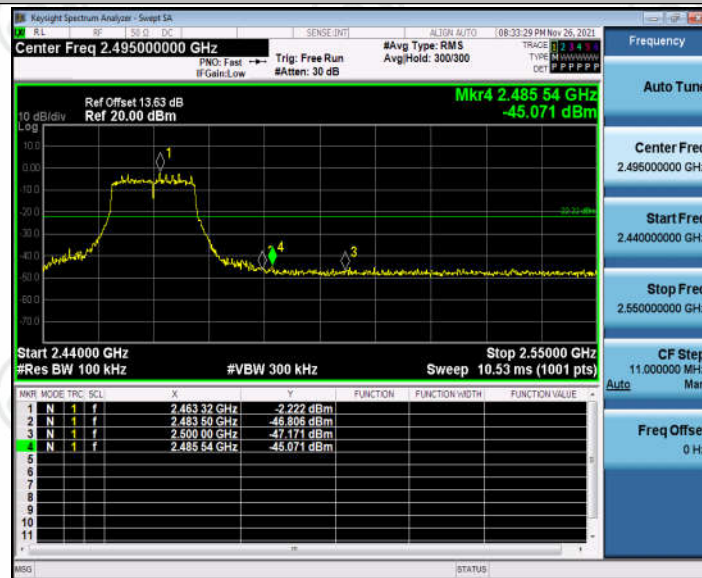
11B_Ant1_High_2462



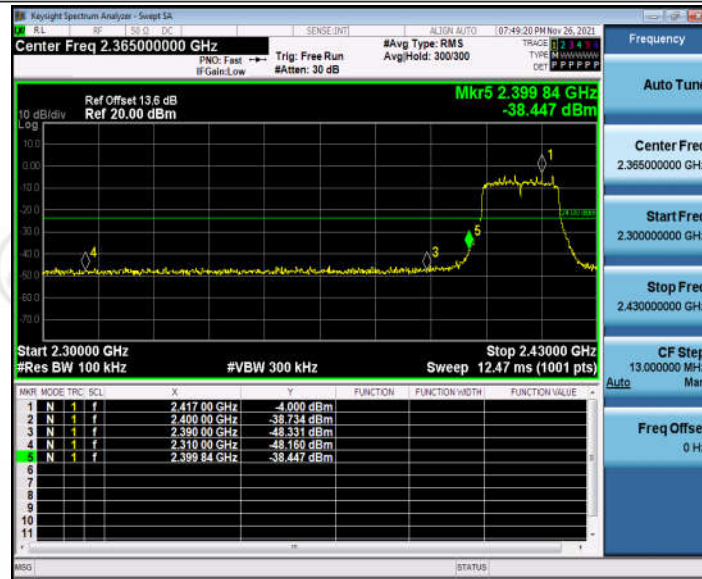
11G_Ant1_Low_2412



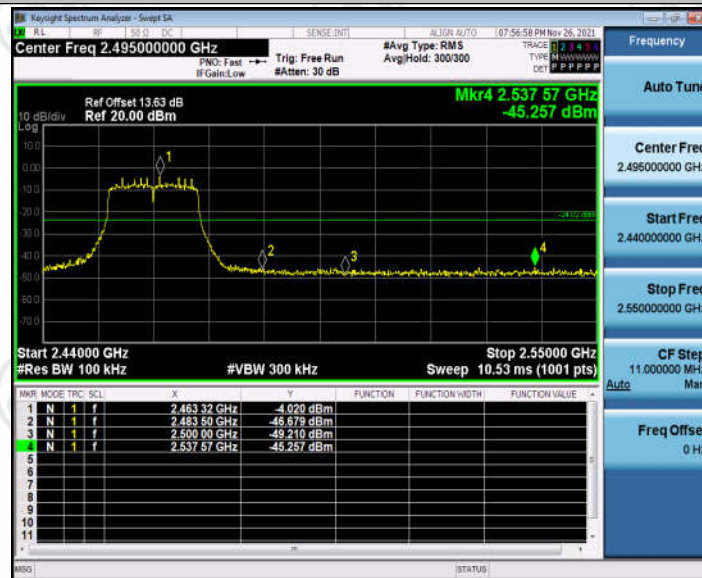
11G_Ant1_High_2462



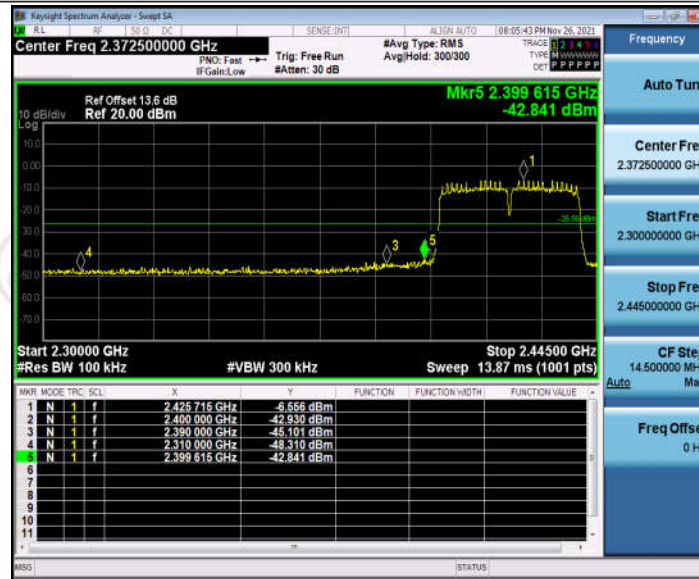
11N20SISO_Ant1_Low_2412



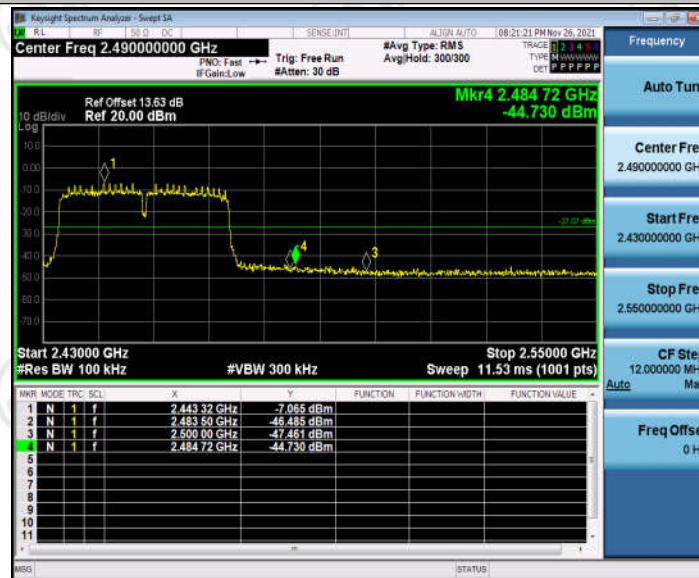
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

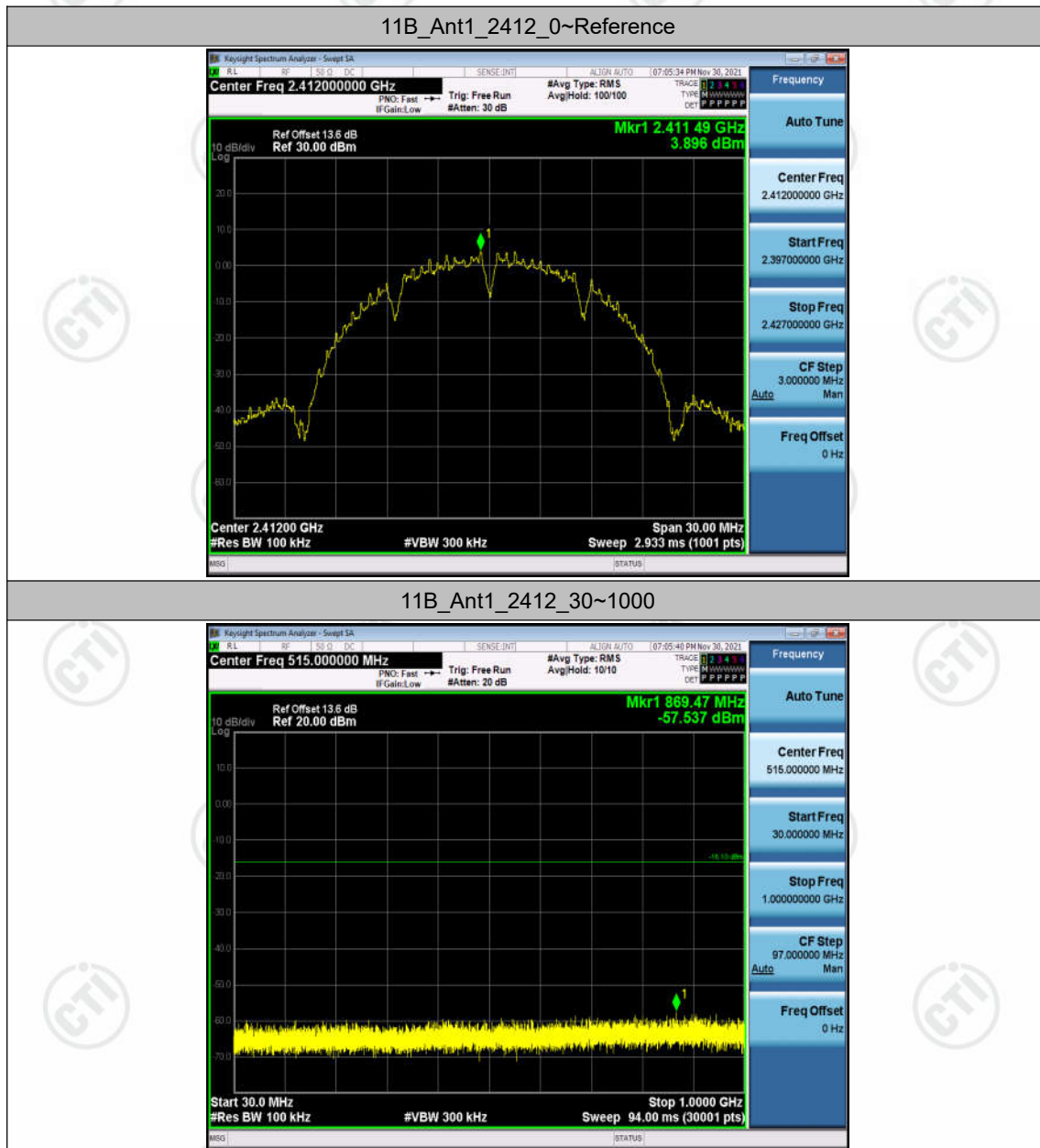


Appendix F: Conducted Spurious Emission

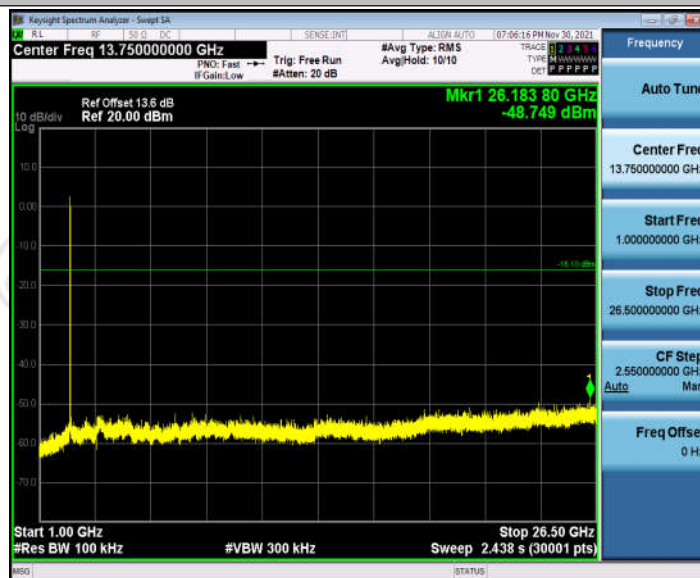
Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.90	3.90	---	PASS
			30~1000	---	-57.537	<=-16.104	PASS
			1000~26500	---	-48.749	<=-16.104	PASS
		2437	Reference	3.97	3.97	---	PASS
			30~1000	---	-57.639	<=-16.032	PASS
			1000~26500	---	-49.742	<=-16.032	PASS
		2462	Reference	2.95	2.95	---	PASS
			30~1000	---	-57.8	<=-17.053	PASS
			1000~26500	---	-49.418	<=-17.053	PASS
11G	Ant1	2412	Reference	-2.40	-2.40	---	PASS
			30~1000	---	-57.482	<=-22.398	PASS
			1000~26500	---	-49.64	<=-22.398	PASS
		2437	Reference	-2.35	-2.35	---	PASS
			30~1000	---	-57.421	<=-22.351	PASS
			1000~26500	---	-49.709	<=-22.351	PASS
		2462	Reference	-2.19	-2.19	---	PASS
			30~1000	---	-57.392	<=-22.19	PASS
			1000~26500	---	-49.761	<=-22.19	PASS
11N20SISO	Ant1	2412	Reference	-4.78	-4.78	---	PASS
			30~1000	---	-57.763	<=-24.783	PASS
			1000~26500	---	-49.112	<=-24.783	PASS
		2437	Reference	-3.84	-3.84	---	PASS
			30~1000	---	-57.89	<=-23.84	PASS
			1000~26500	---	-49.298	<=-23.84	PASS
		2462	Reference	-4.10	-4.10	---	PASS
			30~1000	---	-57.143	<=-24.096	PASS
			1000~26500	---	-49.207	<=-24.096	PASS
11N40SISO	Ant1	2422	Reference	-6.50	-6.50	---	PASS
			30~1000	---	-57.415	<=-26.502	PASS
			1000~26500	---	-48.326	<=-26.502	PASS
		2437	Reference	-6.67	-6.67	---	PASS
			30~1000	---	-56.772	<=-26.668	PASS
			1000~26500	---	-49.472	<=-26.668	PASS
		2452	Reference	-7.15	-7.15	---	PASS
			30~1000	---	-58.295	<=-27.149	PASS
			1000~26500	---	-48.665	<=-27.149	PASS

Test Graphs



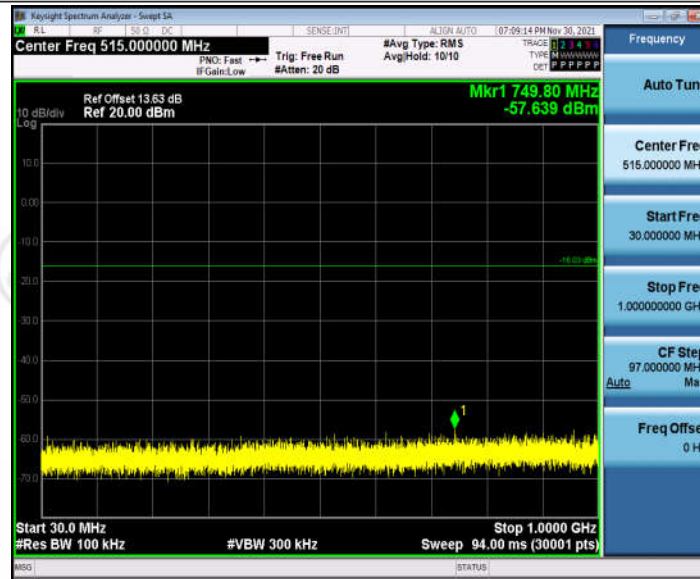
11B_Ant1_2412_1000~26500



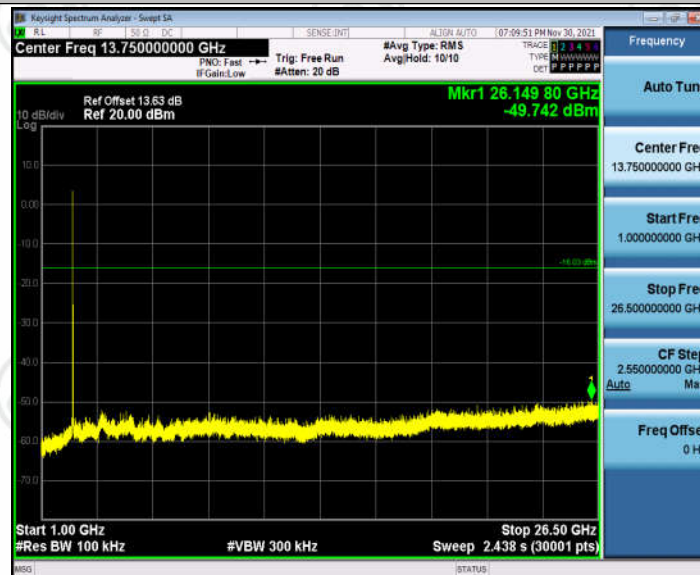
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



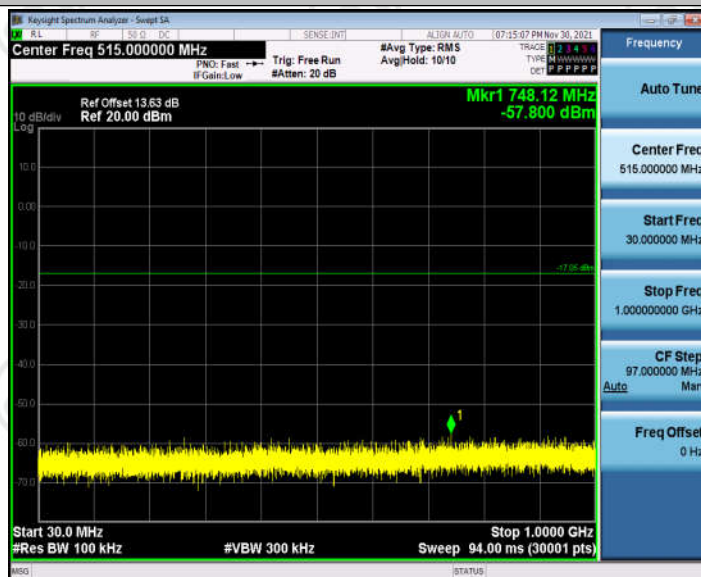
11B_Ant1_2437_1000~26500



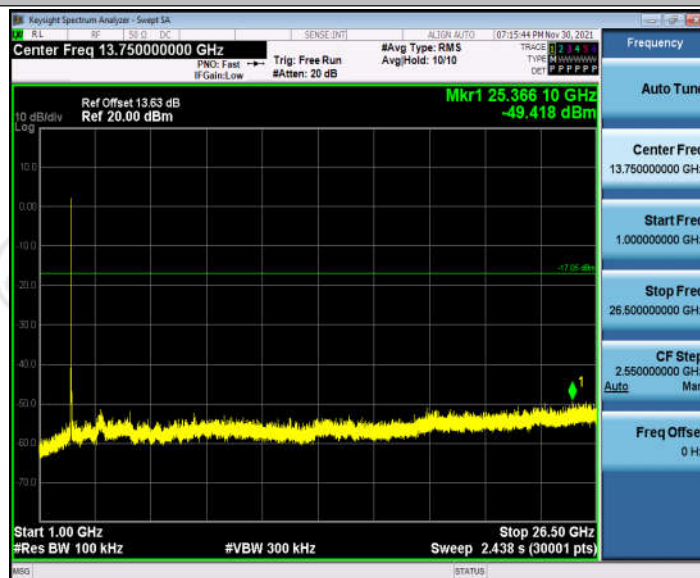
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

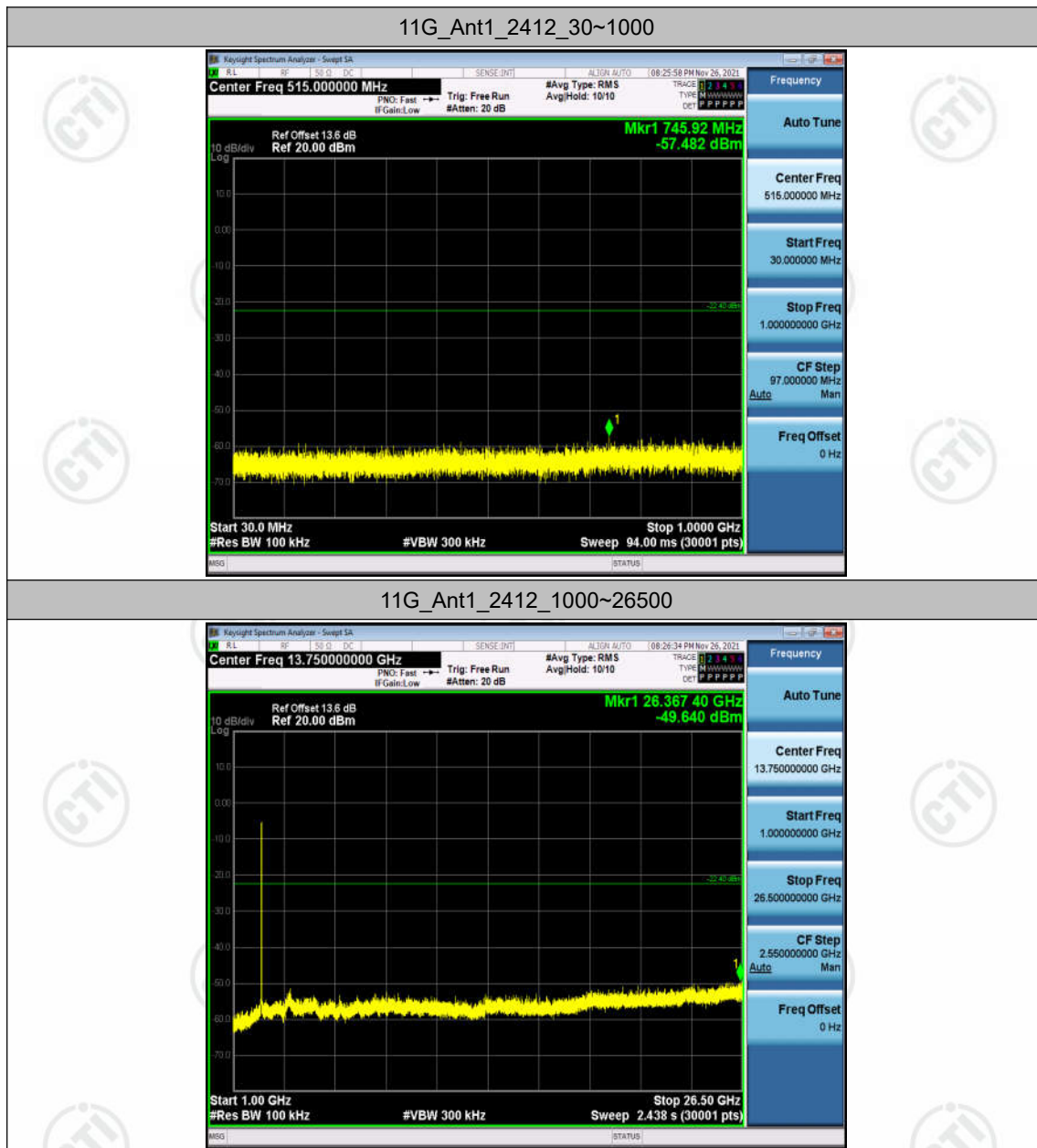


11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

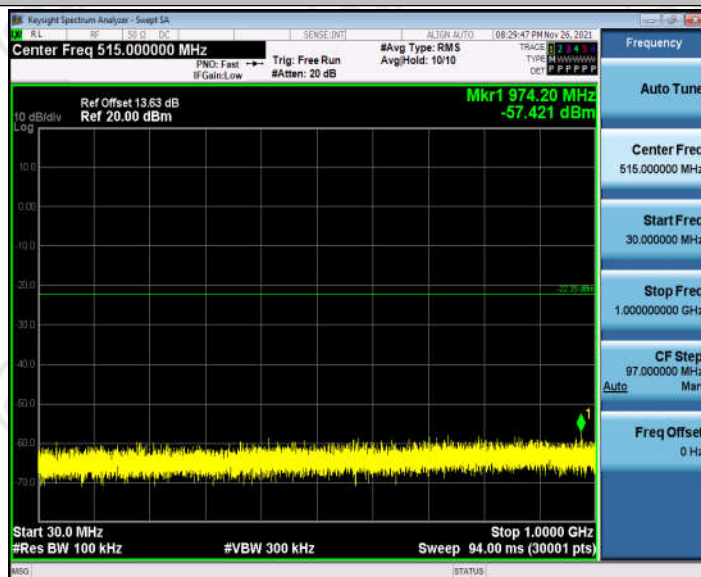




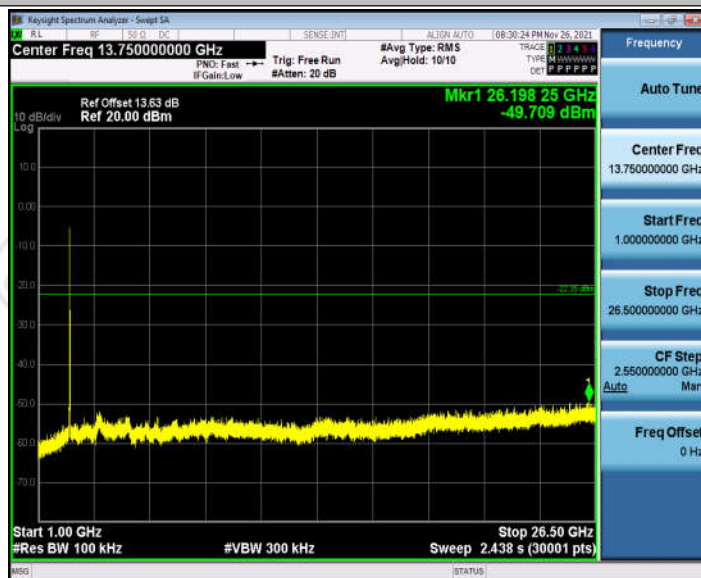
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



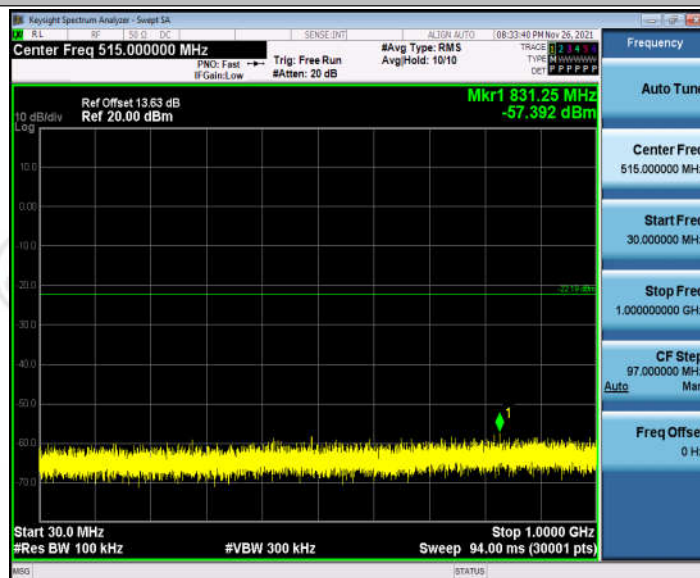
11G_Ant1_2437_1000~26500



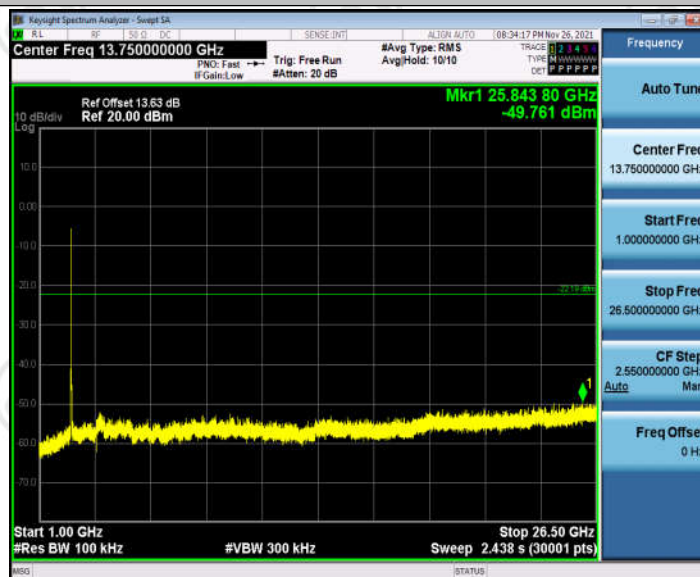
11G_Ant1_2462_0~Reference

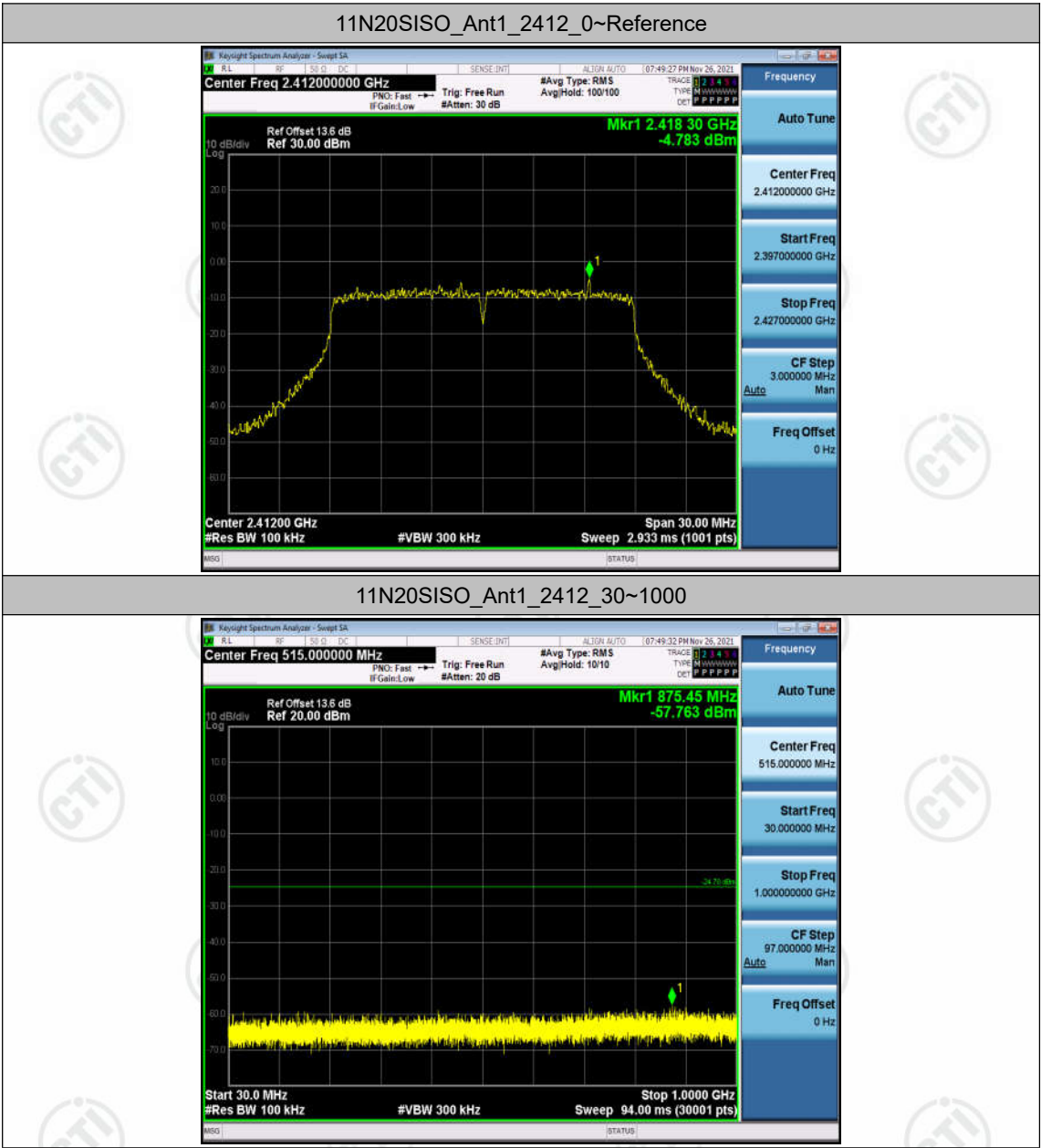


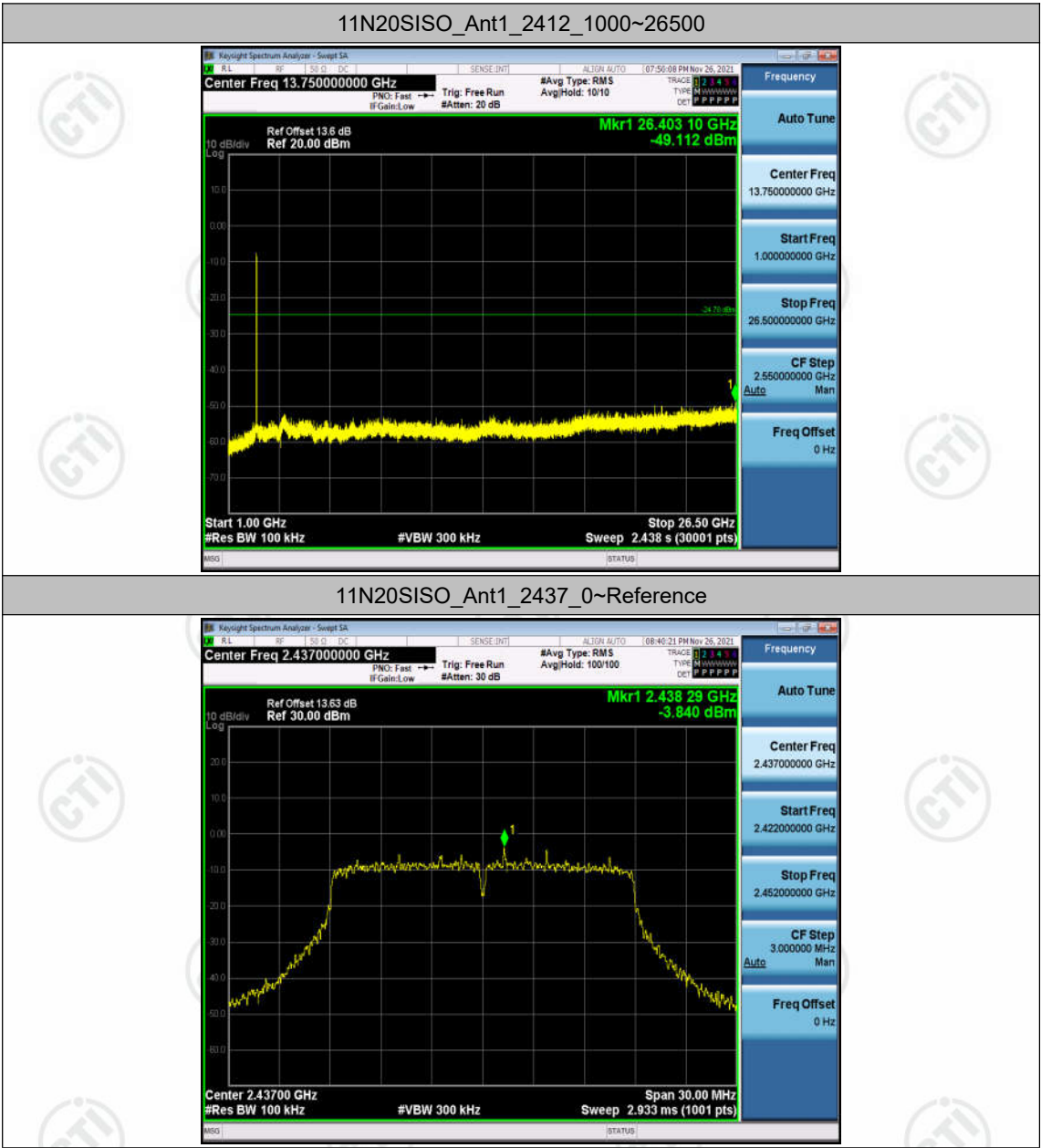
11G_Ant1_2462_30~1000



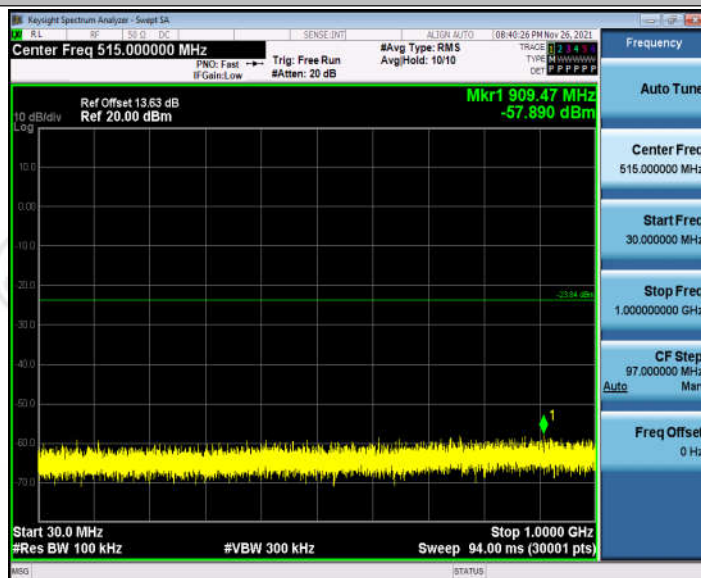
11G_Ant1_2462_1000~26500



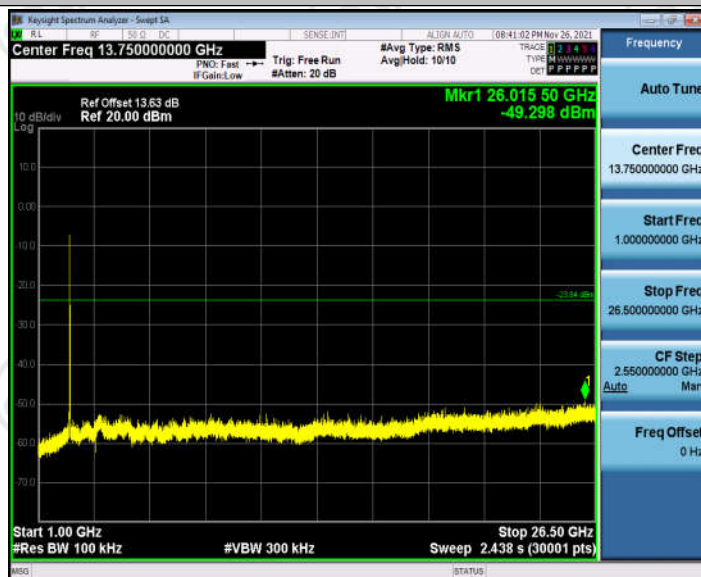




11N20SISO_Ant1_2437_30~1000



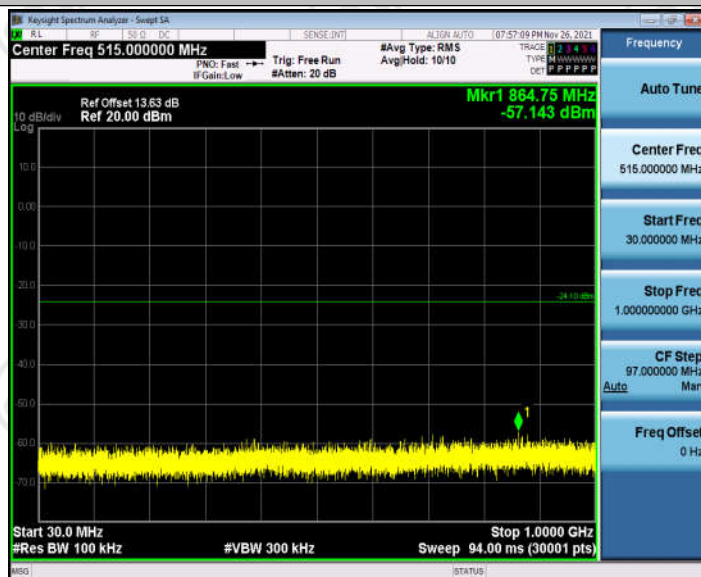
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



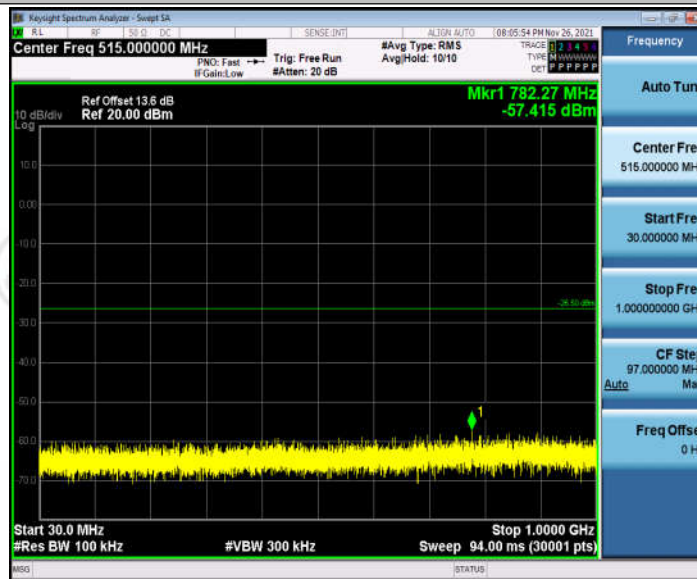
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



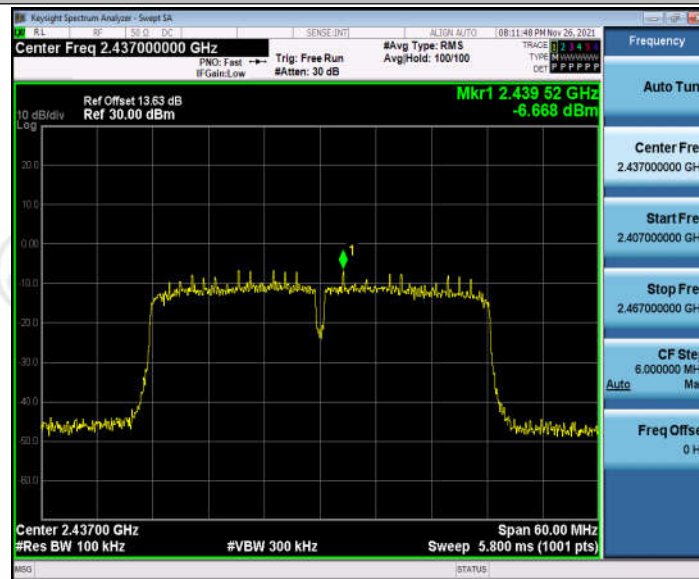
11N40SISO_Ant1_2422_30~1000



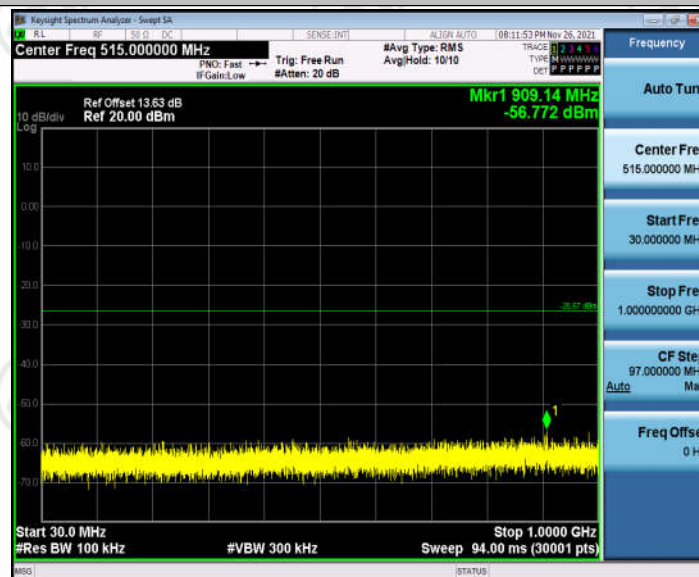
11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



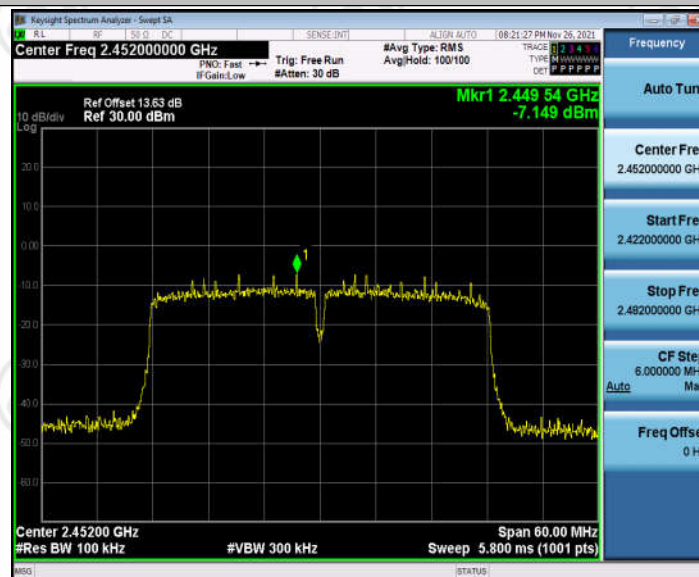
11N40SISO_Ant1_2437_30~1000



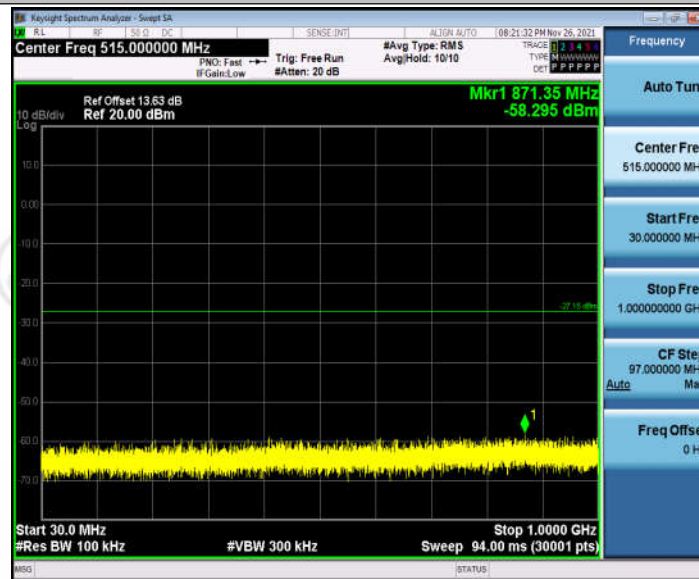
11N40SISO_Ant1_2437_1000~26500



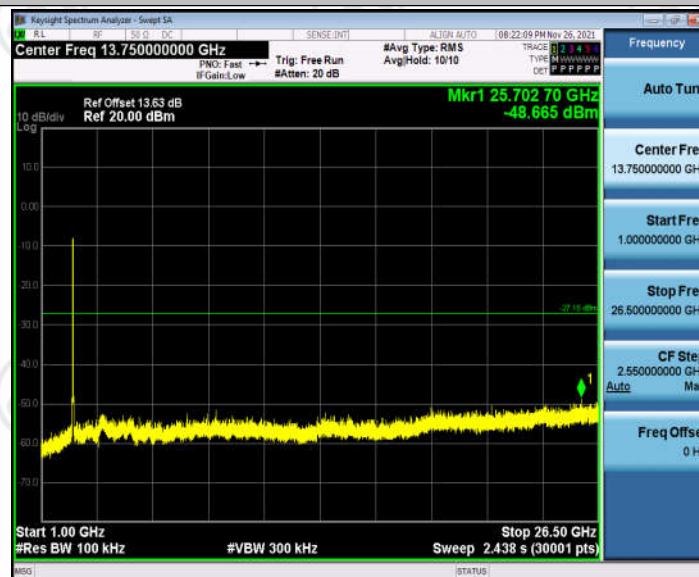
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

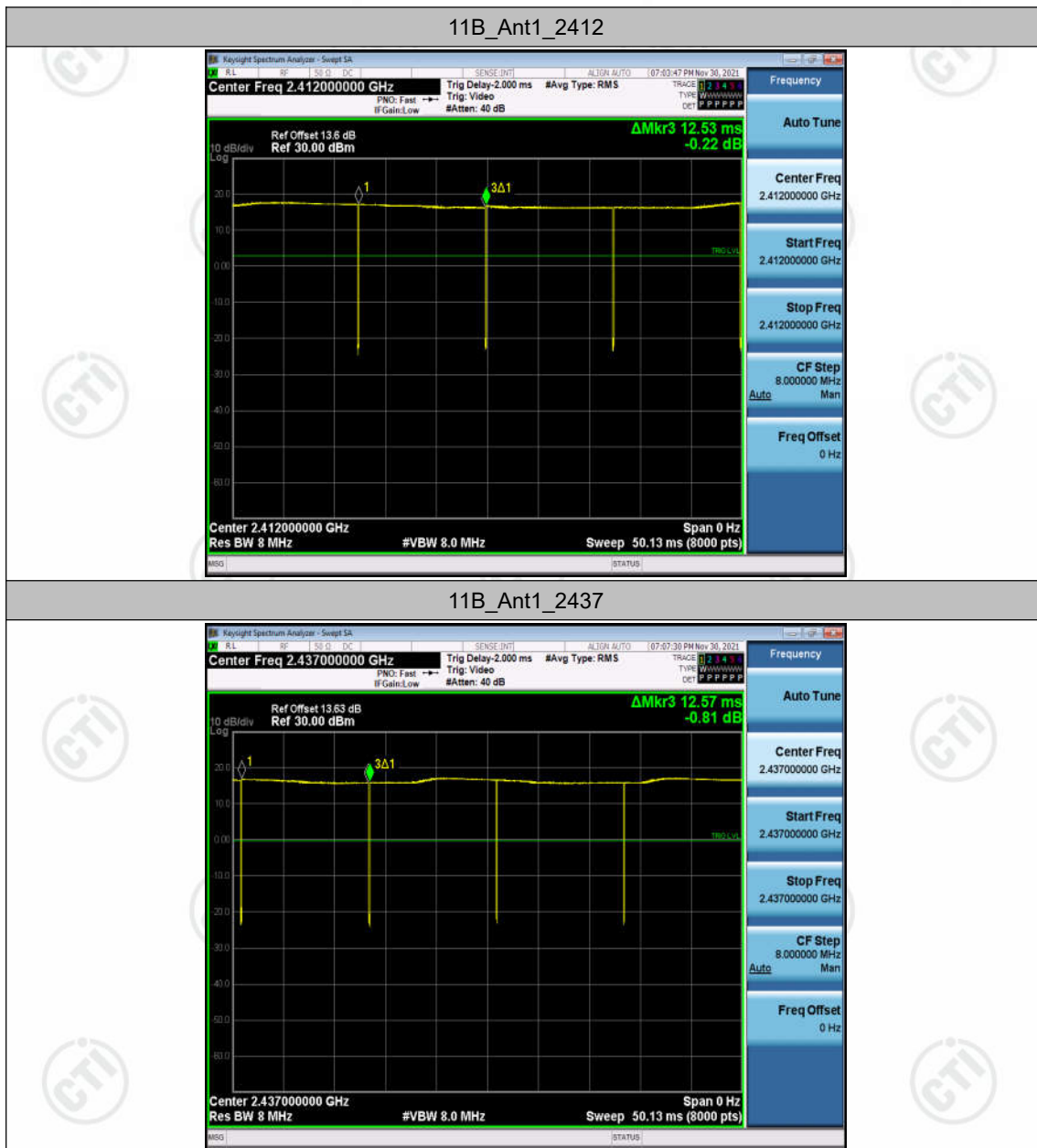


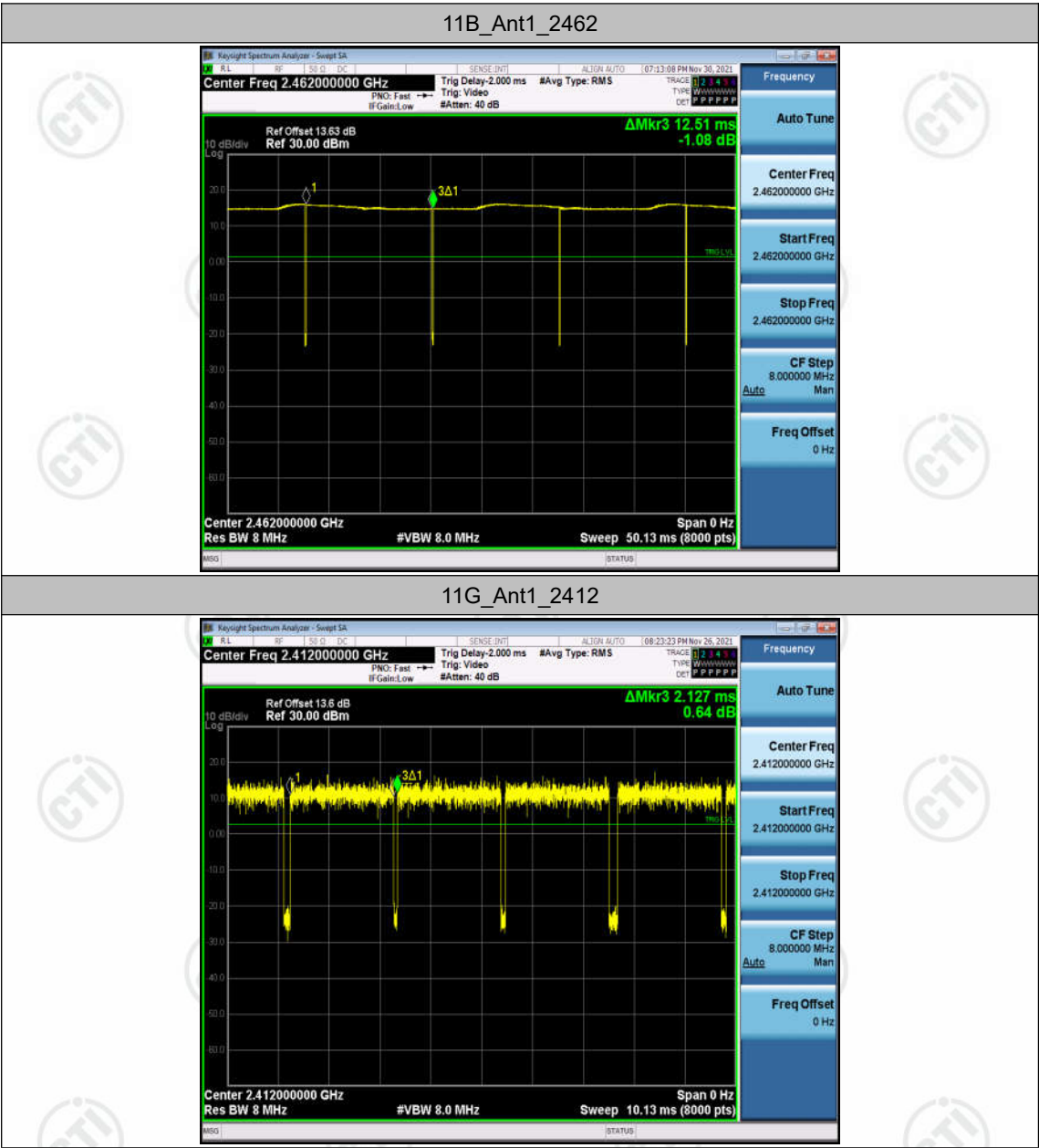
Appendix G: Duty Cycle

Test Result

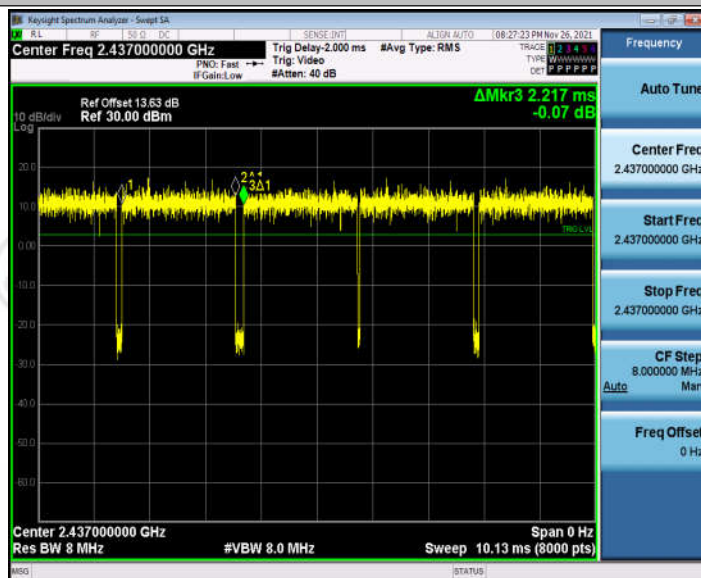
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.41	12.53	99.05	---	PASS
		2437	12.41	12.57	98.70	---	PASS
		2462	12.41	12.51	99.20	---	PASS
11G	Ant1	2412	2.06	2.13	96.90	---	PASS
		2437	2.06	2.22	92.97	---	PASS
		2462	2.06	2.15	95.71	---	PASS
11N20SISO	Ant1	2412	1.92	2.09	91.70	---	PASS
		2437	1.92	2.09	91.70	---	PASS
		2462	1.92	2.00	95.82	---	PASS
11N40SISO	Ant1	2422	0.94	1.04	90.28	---	PASS
		2437	0.94	1.06	88.78	---	PASS
		2452	0.94	1.08	87.32	---	PASS

Test Graphs

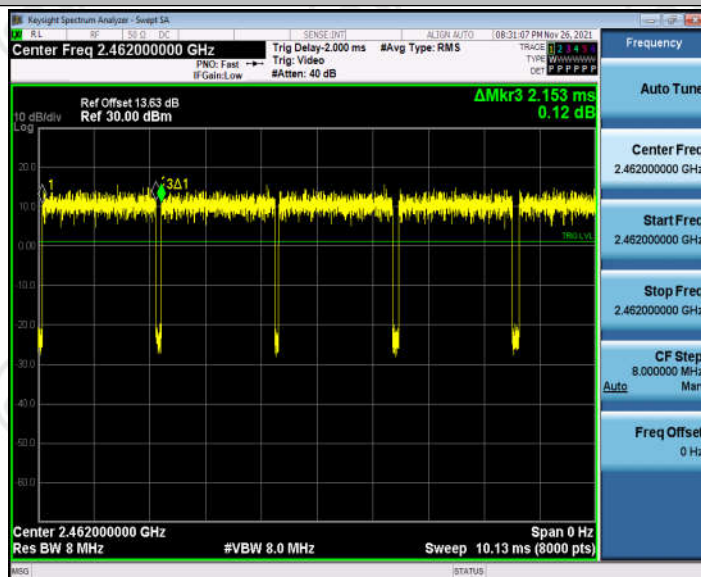




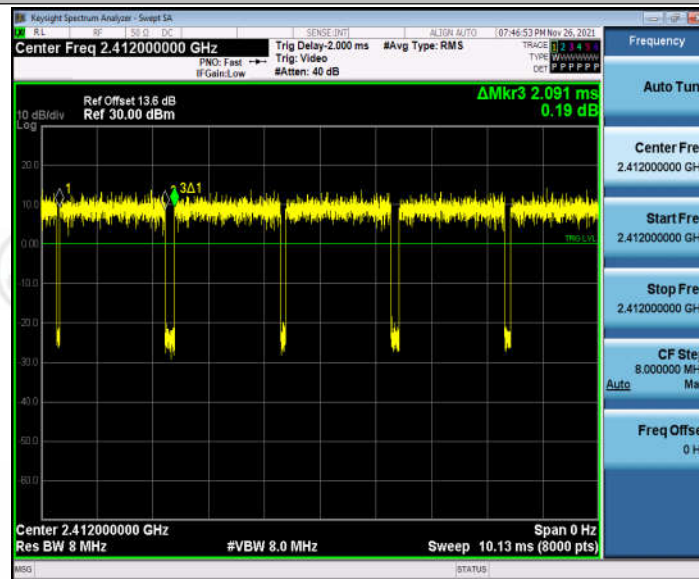
11G_Ant1_2437



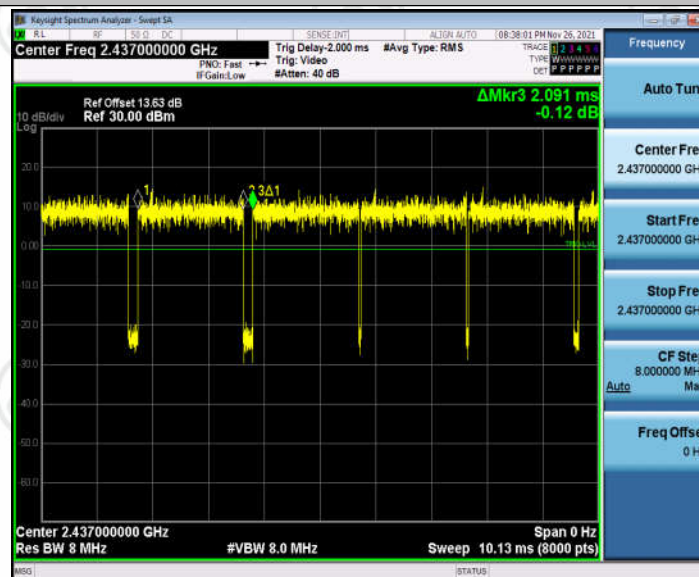
11G_Ant1_2462



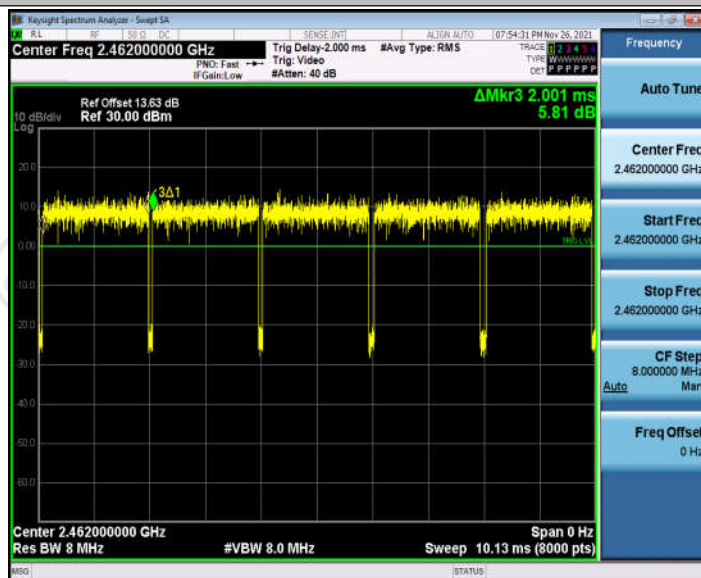
11N20SISO_Ant1_2412



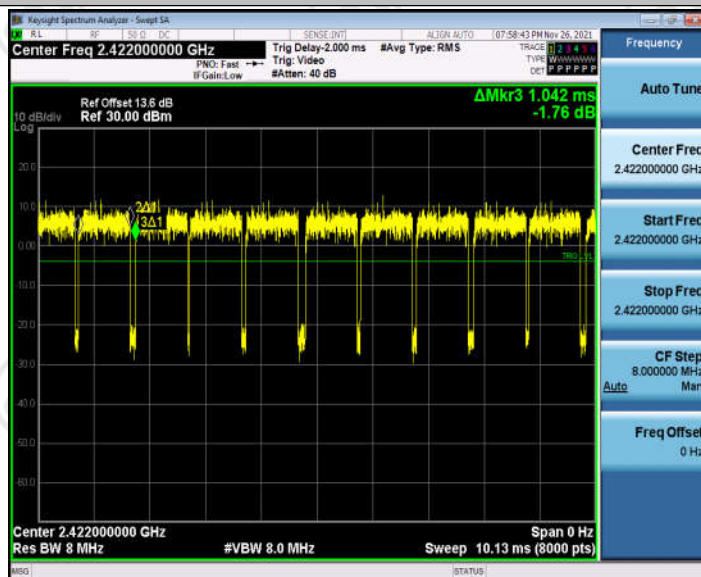
11N20SISO_Ant1_2437

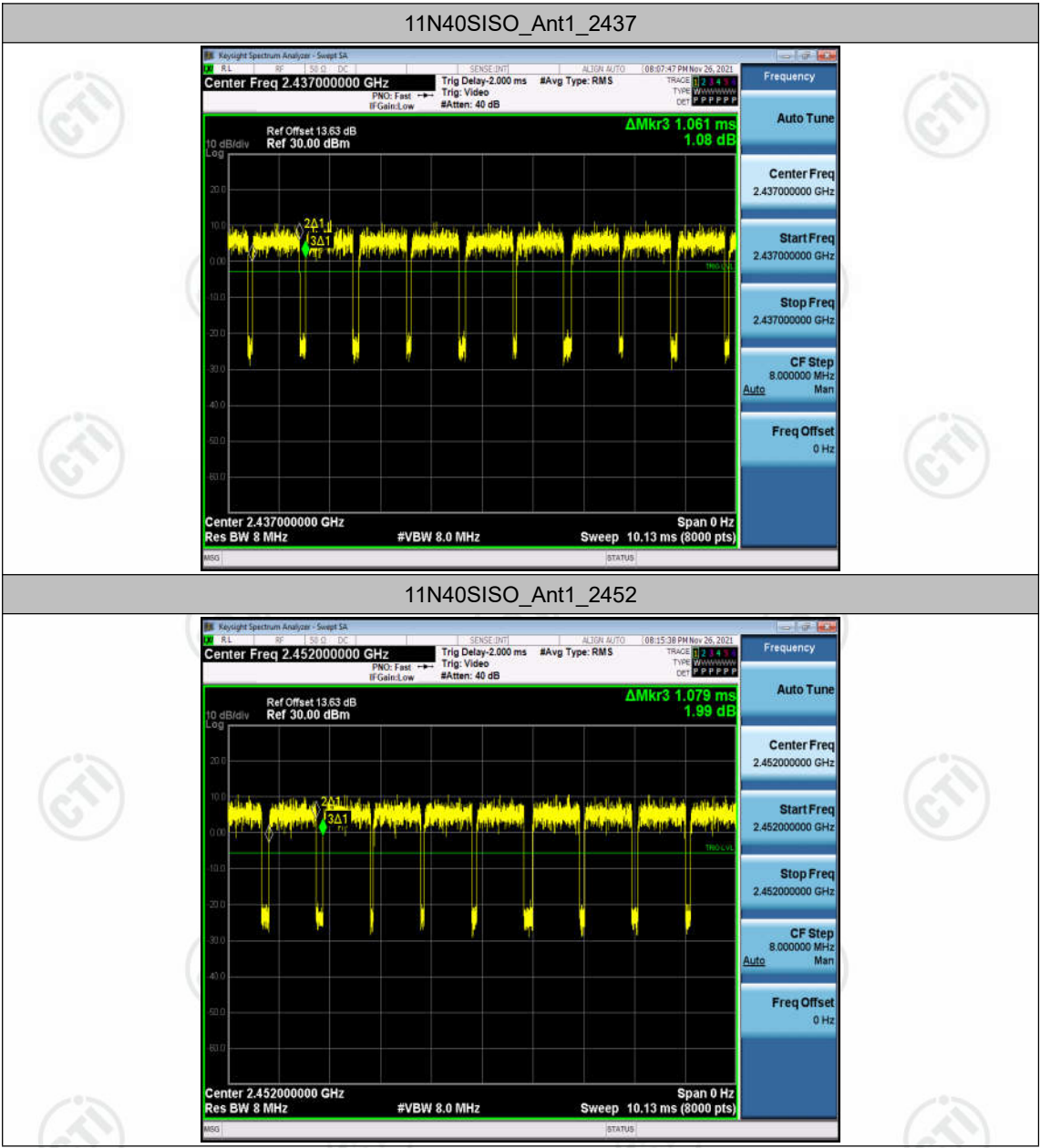


11N20SISO_Ant1_2462



11N40SISO_Ant1_2422





*** End of Report ***