Appendix Test Data

Report No.:	18220WC30262602	Test Sample No.:	1-2-2
Start Test Date:	2023.12.14	Finish Test Date:	2024.01.03
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4℃	Relative Humidity:	46%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

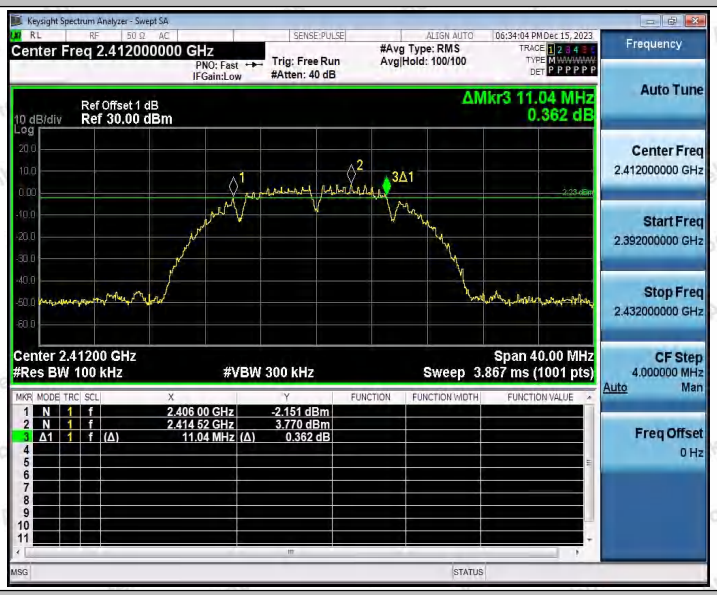
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.040	2406.000	2417.040	0.5	PASS
	Ant2	2412	15.960	2403.840	2419.800	0.5	PASS
	Ant1	2437	10.120	2431.960	2442.080	0.5	PASS
	Ant2	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant1	2462	11.040	2456.000	2467.040	0.5	PASS
	Ant2	2462	16.320	2453.840	2470.160	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant2	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant2	2437	16.320	2428.840	2445.160	0.5	PASS
	Ant1	2462	15.920	2453.840	2469.760	0.5	PASS
	Ant2	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
	Ant2	2412	17.200	2403.240	2420.440	0.5	PASS
	Ant1	2437	17.280	2428.240	2445.520	0.5	PASS
	Ant2	2437	17.360	2428.240	2445.600	0.5	PASS
	Ant1	2462	17.160	2453.240	2470.400	0.5	PASS
	Ant2	2462	17.280	2453.240	2470.520	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
	Ant2	2422	36.320	2403.840	2440.160	0.5	PASS
	Ant1	2437	36.000	2418.840	2454.840	0.5	PASS
	Ant2	2437	35.840	2418.920	2454.760	0.5	PASS
	Ant1	2452	36.320	2433.840	2470.160	0.5	PASS
	Ant2	2452	36.320	2433.840	2470.160	0.5	PASS

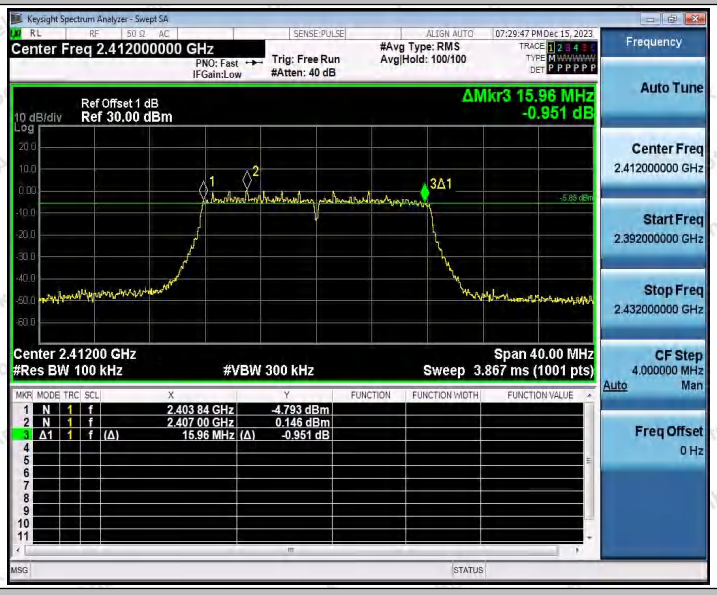
11AX20SISO	Ant1	2412	18.040	2402.640	2420.680	0.5	PASS
	Ant2	2412	18.480	2402.640	2421.120	0.5	PASS
	Ant1	2437	18.360	2427.600	2445.960	0.5	PASS
	Ant2	2437	18.320	2427.640	2445.960	0.5	PASS
	Ant1	2462	18.480	2452.600	2471.080	0.5	PASS
	Ant2	2462	18.480	2452.680	2471.160	0.5	PASS
11AX40SISO	Ant1	2422	37.920	2403.120	2441.040	0.5	PASS
	Ant2	2422	37.920	2403.120	2441.040	0.5	PASS
	Ant1	2437	37.840	2418.120	2455.960	0.5	PASS
	Ant2	2437	37.920	2418.120	2456.040	0.5	PASS
	Ant1	2452	37.920	2433.120	2471.040	0.5	PASS
	Ant2	2452	38.000	2433.040	2471.040	0.5	PASS

Test Graphs

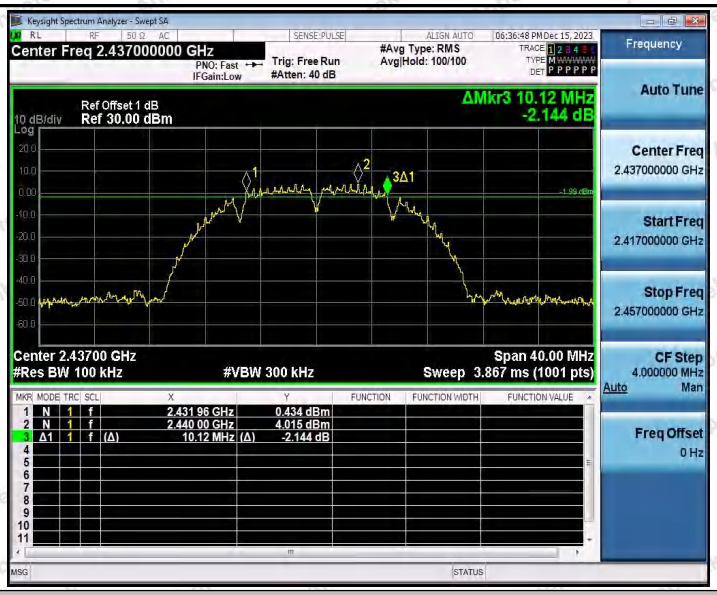
11B_Ant1_2412



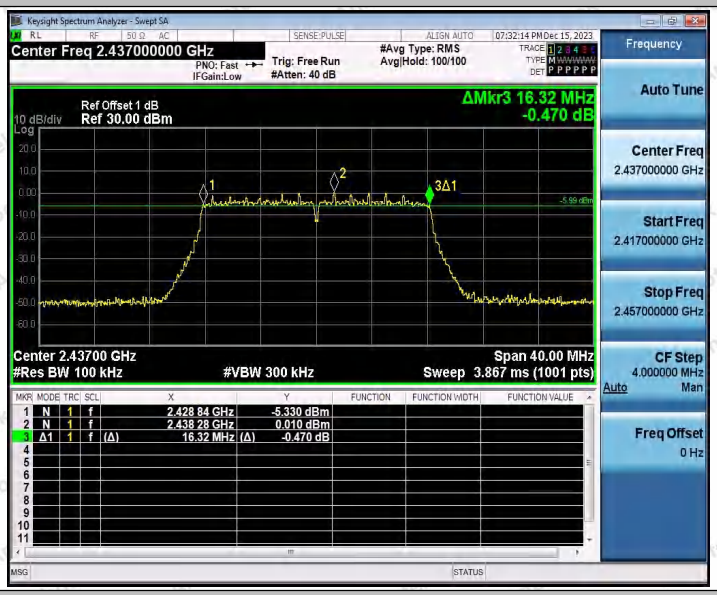
11B_Ant2_2412



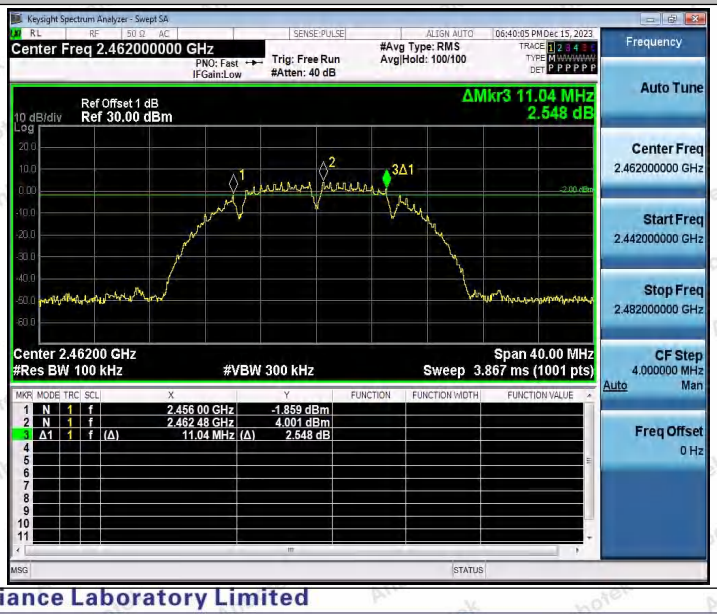
11B_Ant1_2437



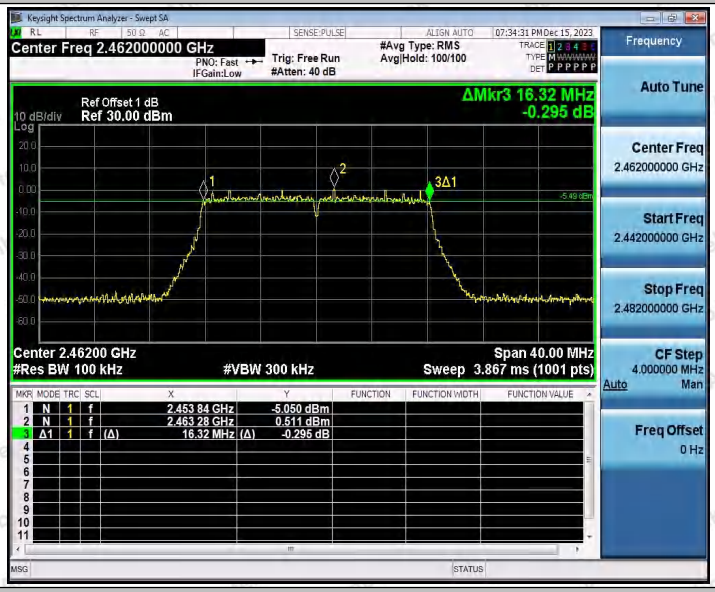
11B_Ant2_2437



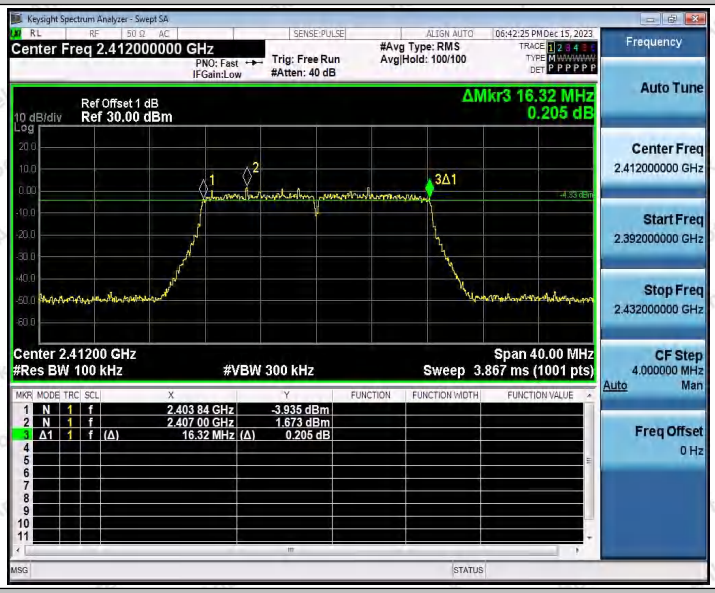
11B_Ant1_2462



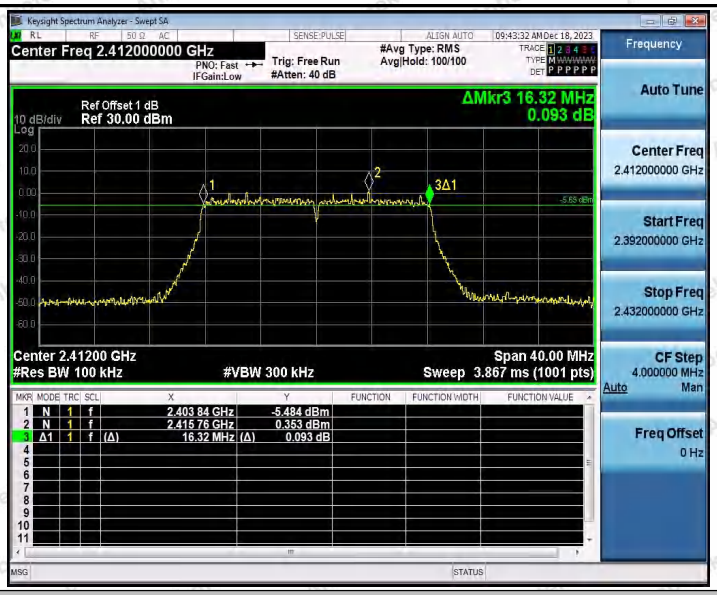
11B_Ant2_2462



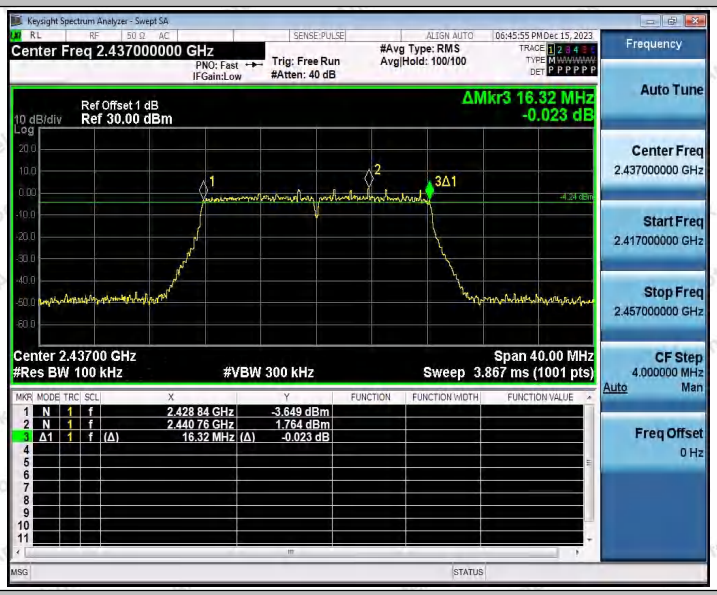
11G_Ant1_2412



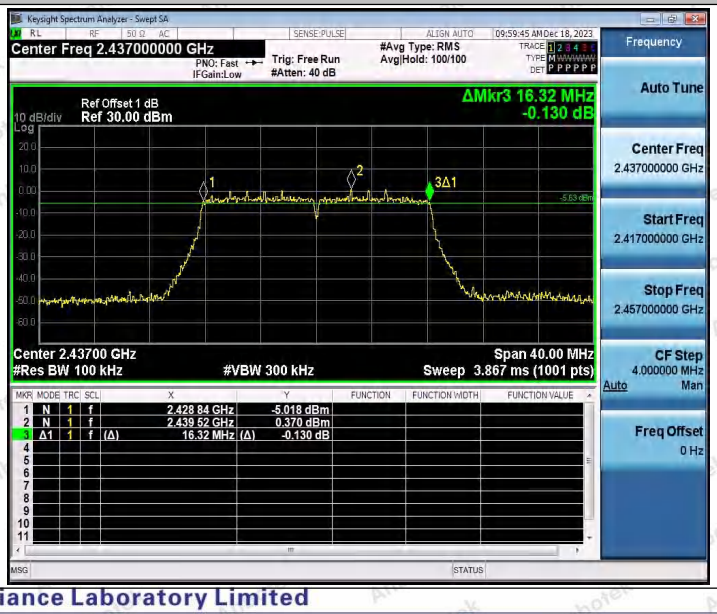
11G_Ant2_2412



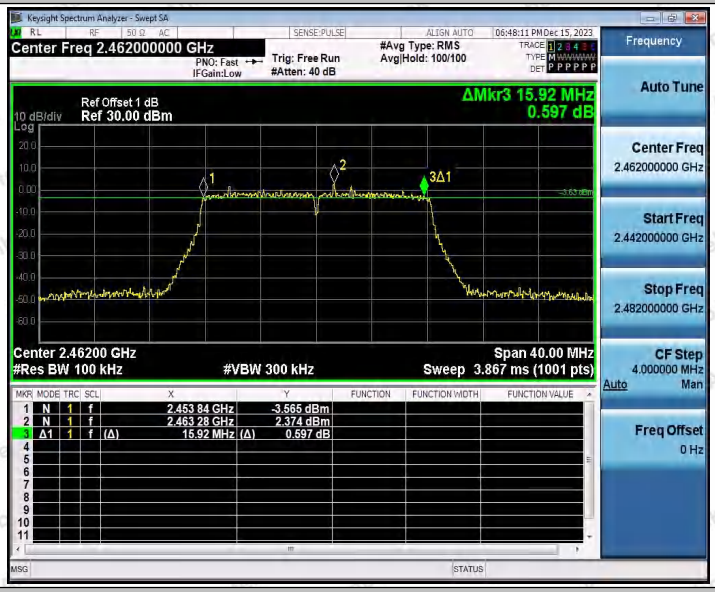
11G_Ant1_2437



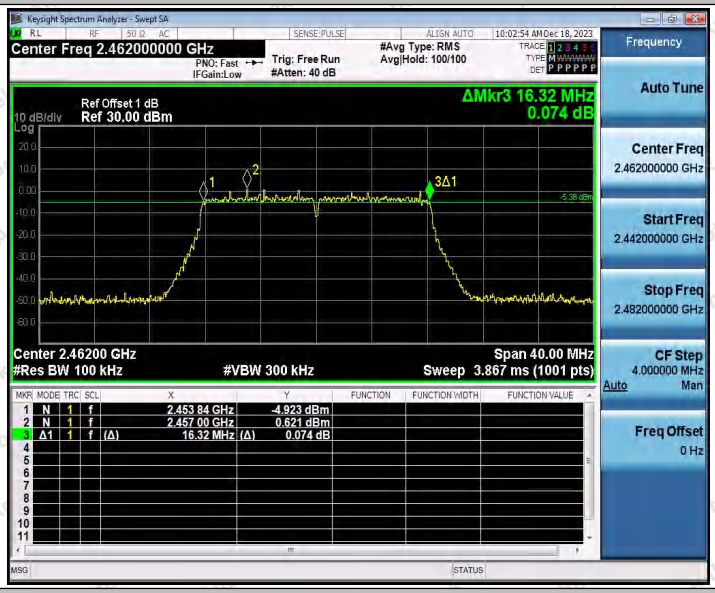
11G_Ant2_2437



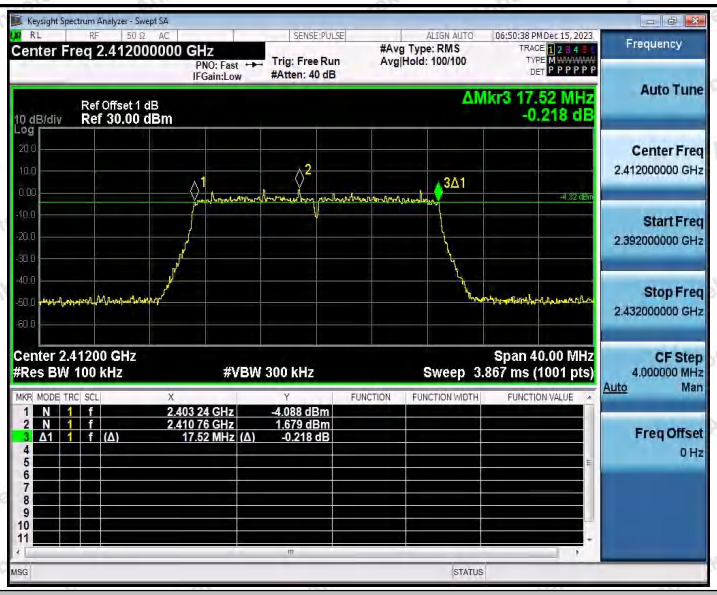
11G_Ant1_2462



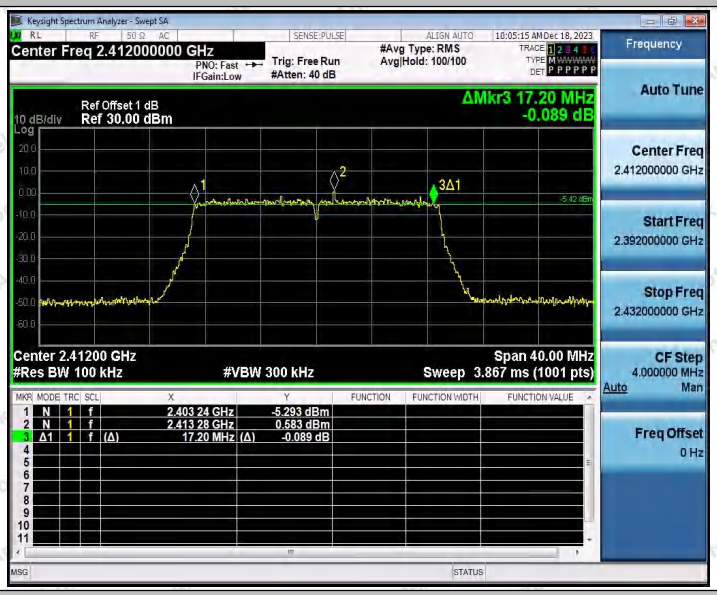
11G_Ant2_2462



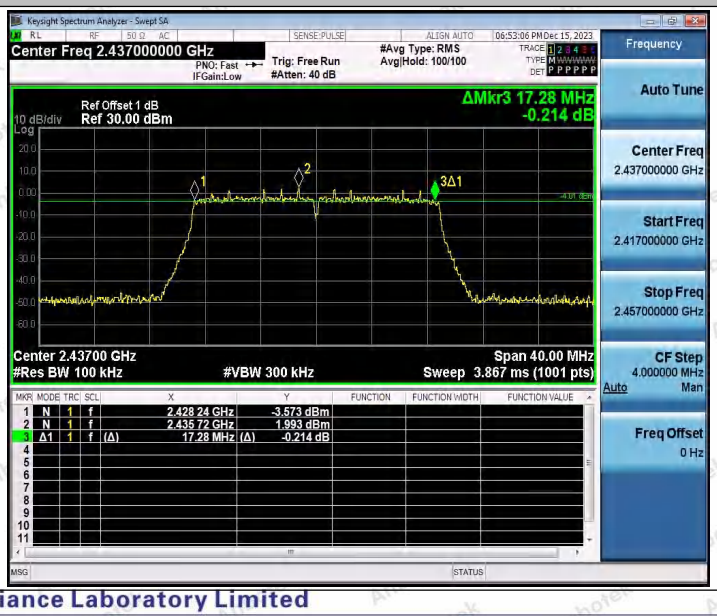
11N20SISO_Ant1_2412



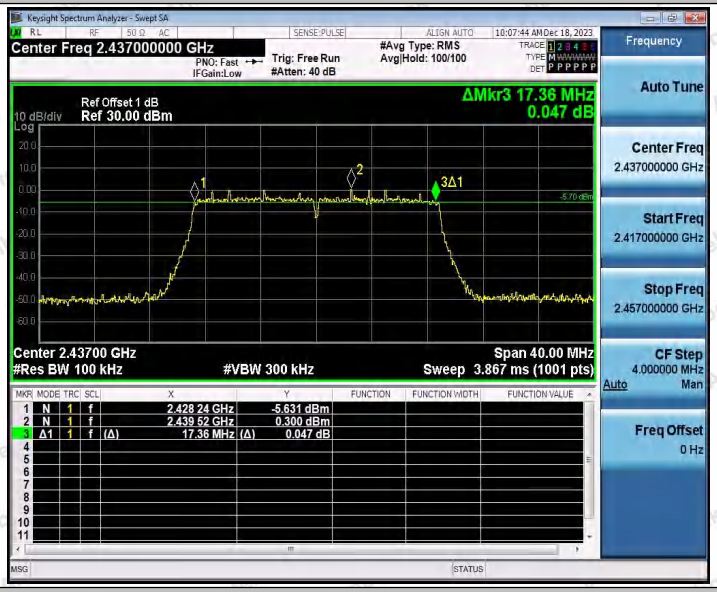
11N20SISO_Ant2_2412



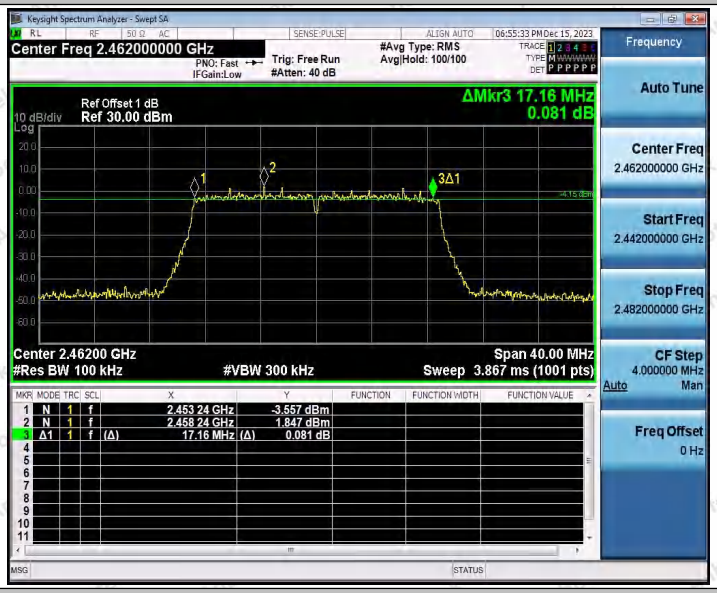
11N20SISO_Ant1_2437



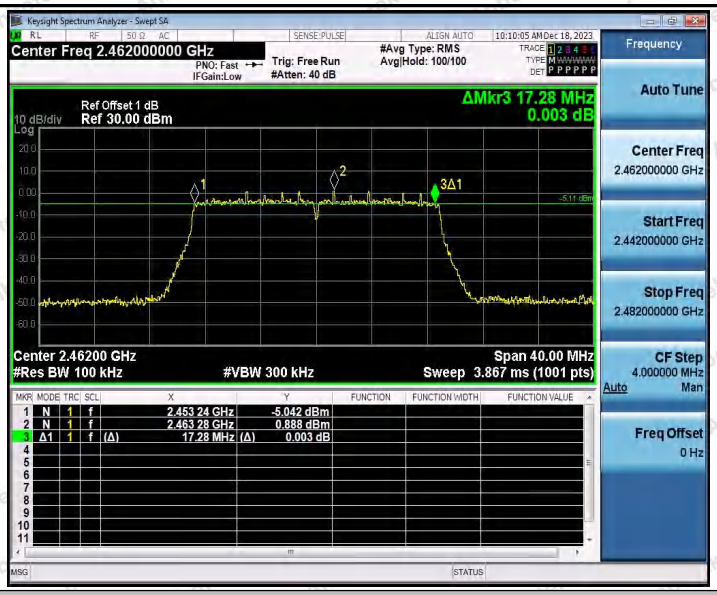
11N20SISO_Ant2_2437



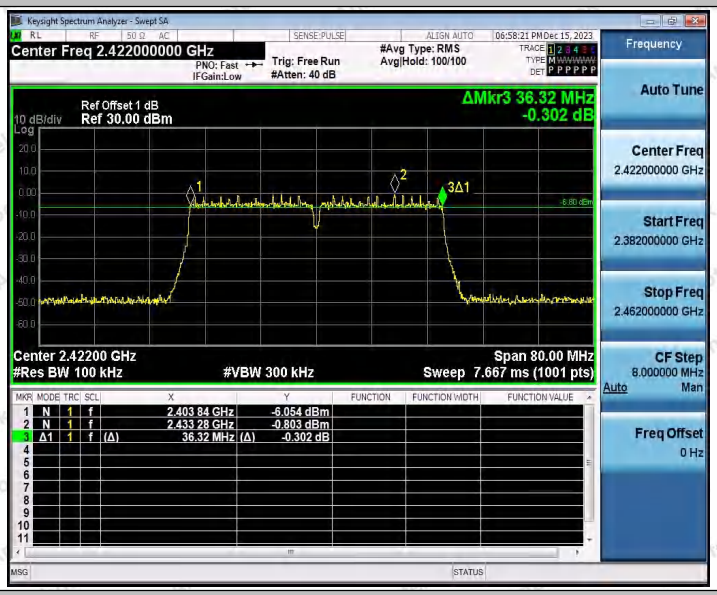
11N20SISO_Ant1_2462



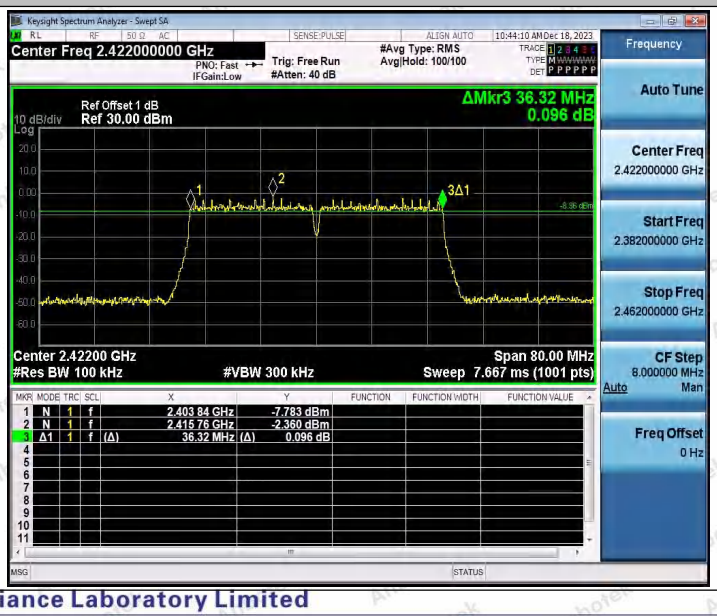
11N20SISO_Ant2_2462



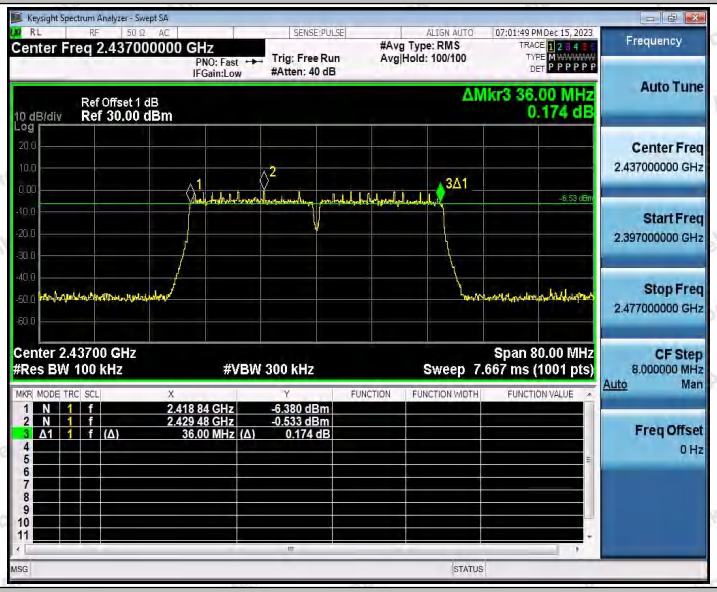
11N40SISO_Ant1_2422



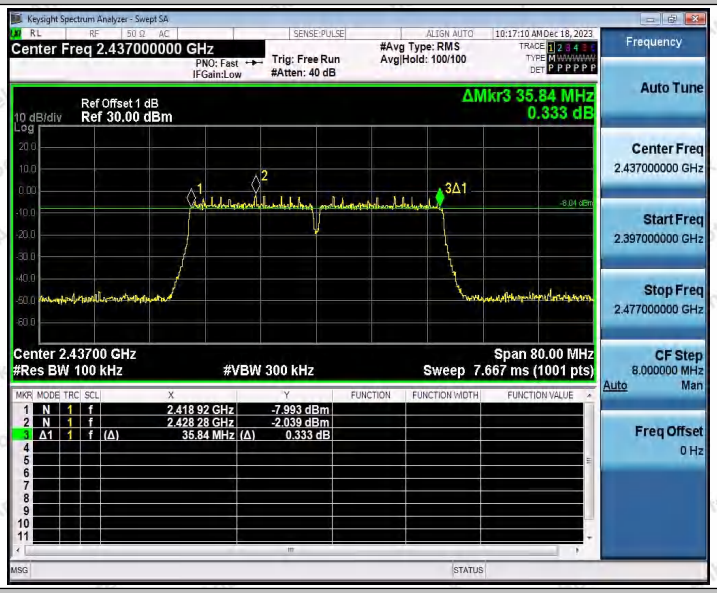
11N40SISO_Ant2_2422



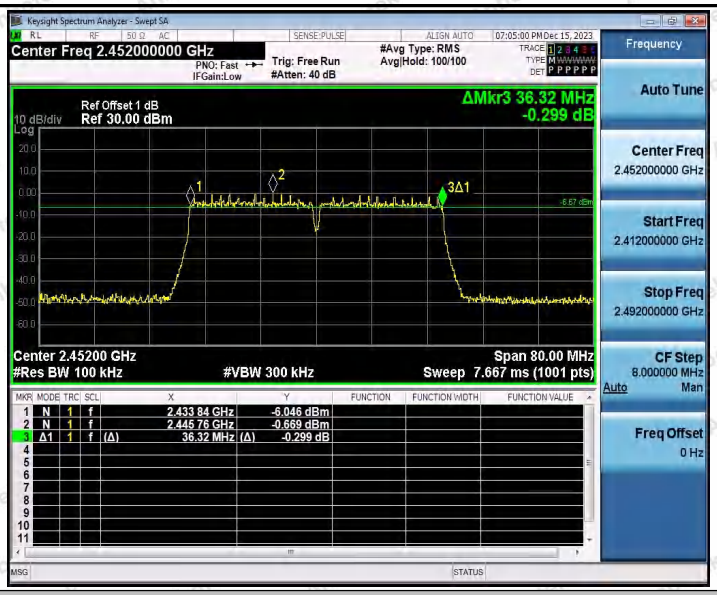
11N40SISO_Ant1_2437



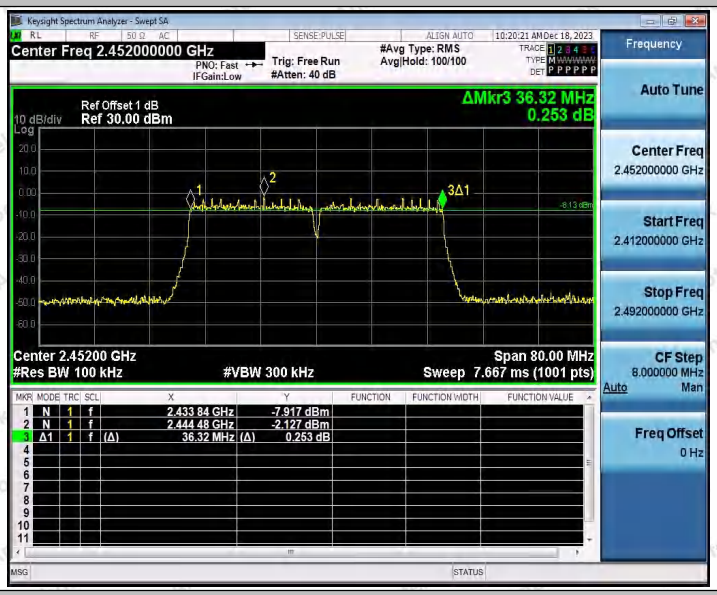
11N40SISO_Ant2_2437



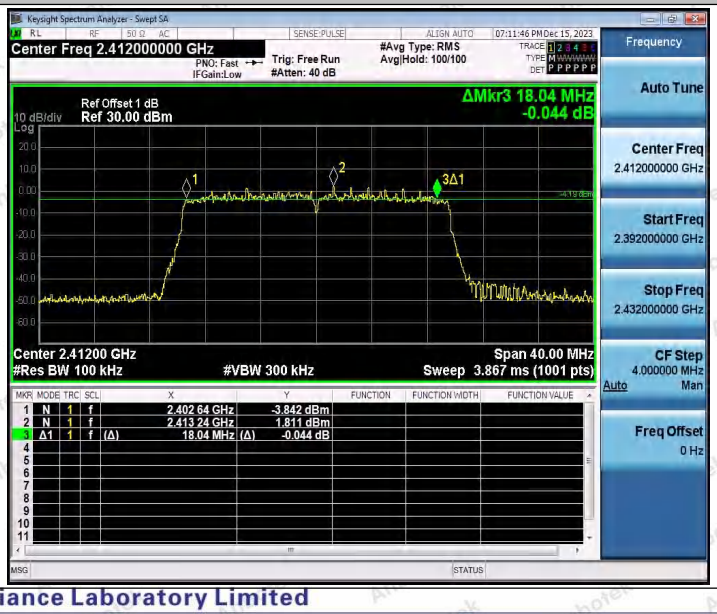
11N40SISO_Ant1_2452



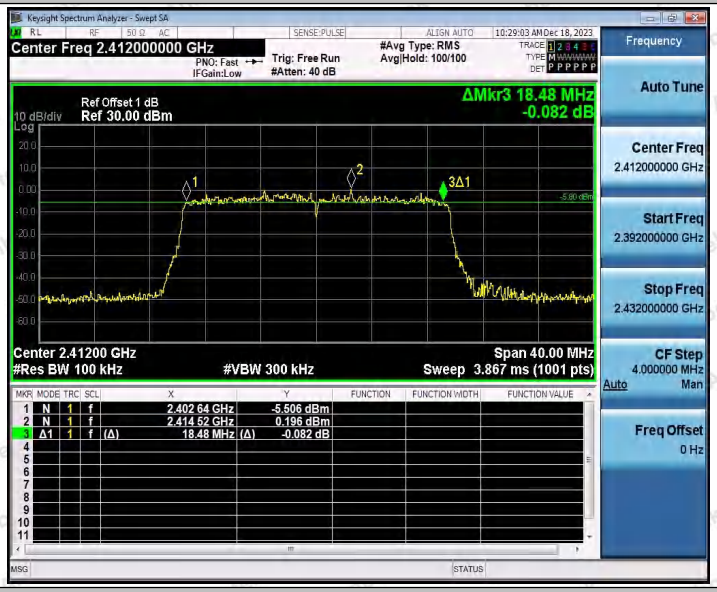
11N40SISO_Ant2_2452



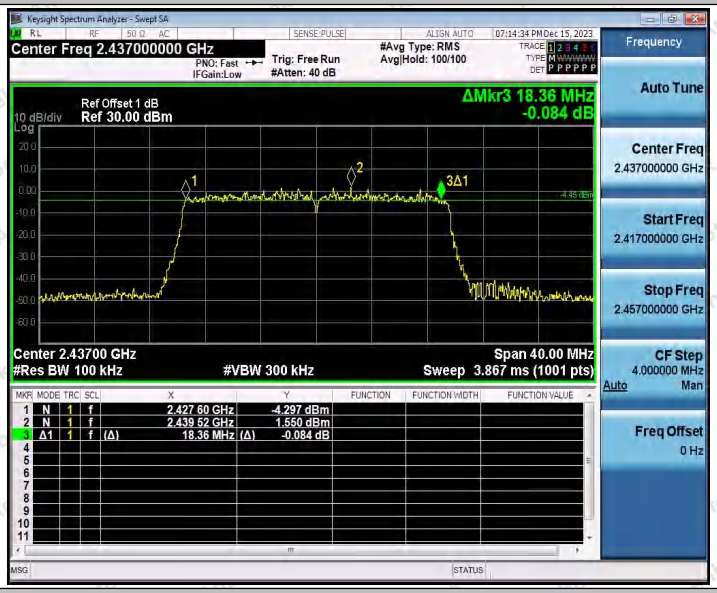
11AX20SISO_Ant1_2412



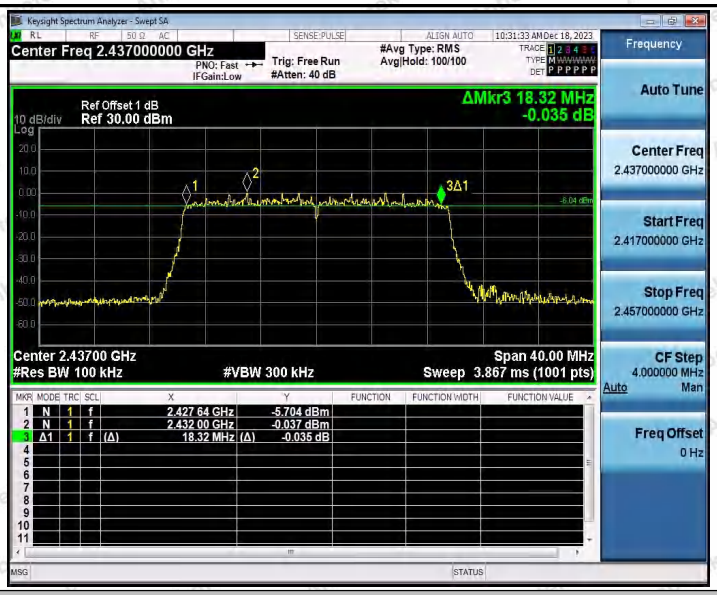
11AX20SISO_Ant2_2412



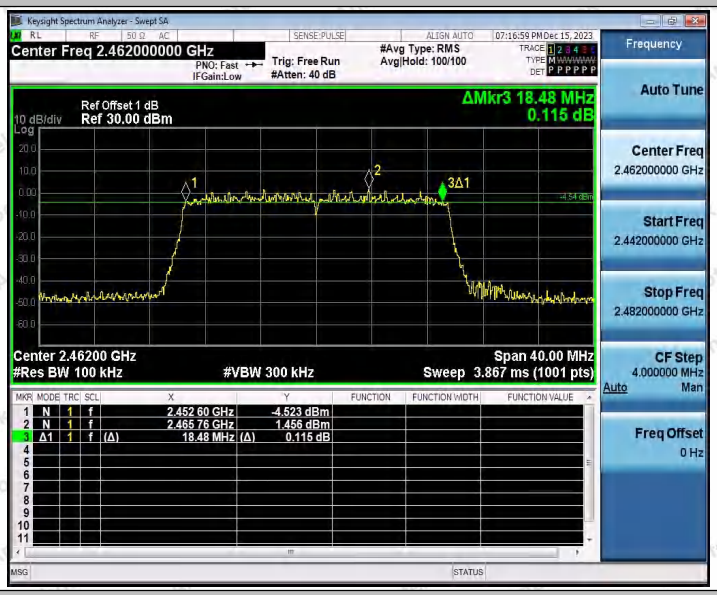
11AX20SISO_Ant1_2437



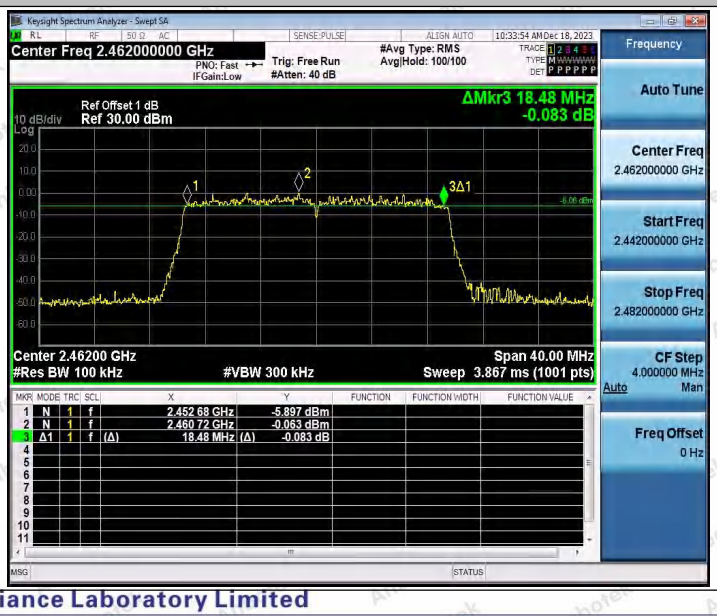
11AX20SISO_Ant2_2437



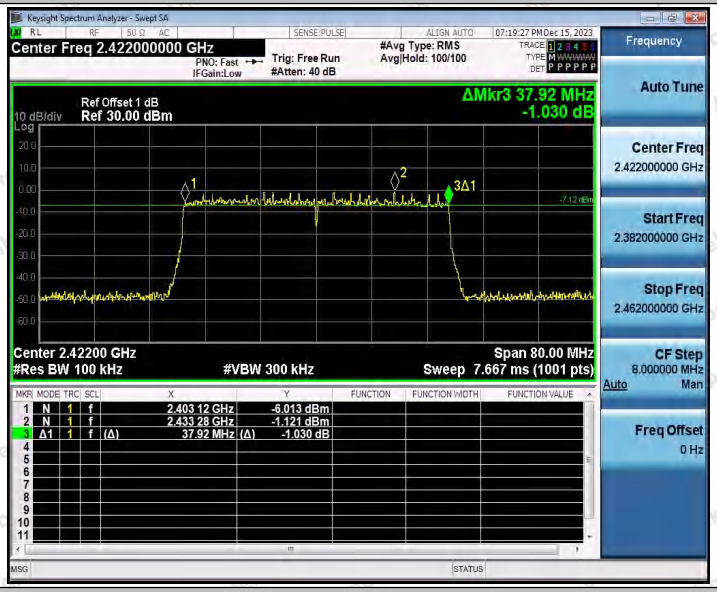
11AX20SISO_Ant1_2462



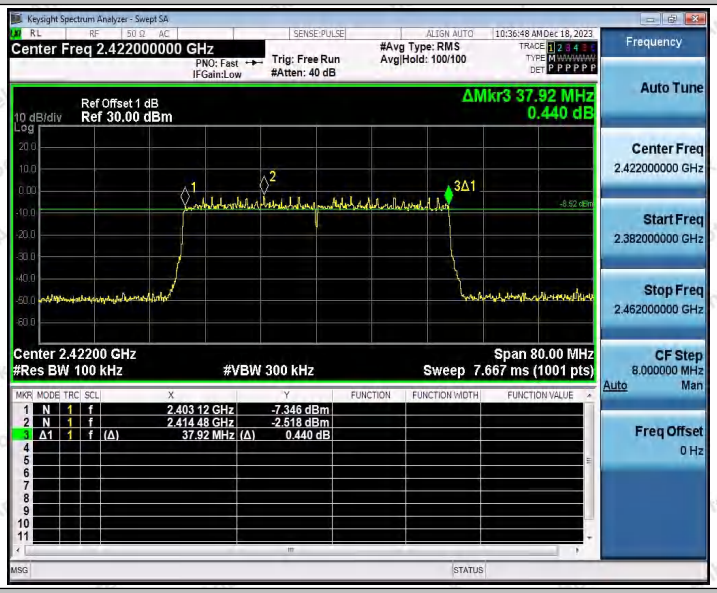
11AX20SISO_Ant2_2462



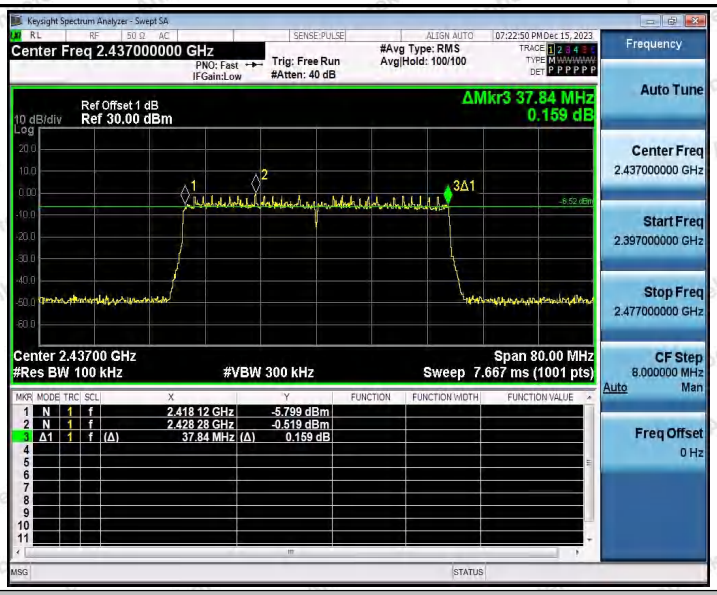
11AX40SISO_Ant1_2422



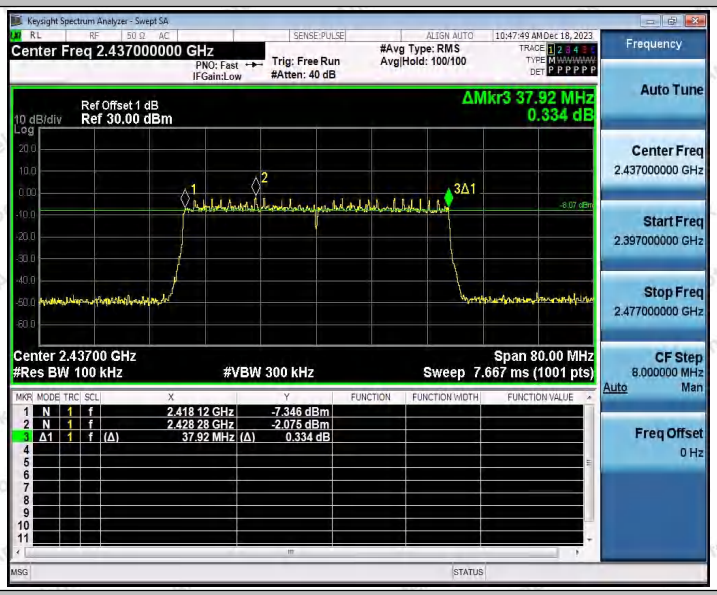
11AX40SISO_Ant2_2422



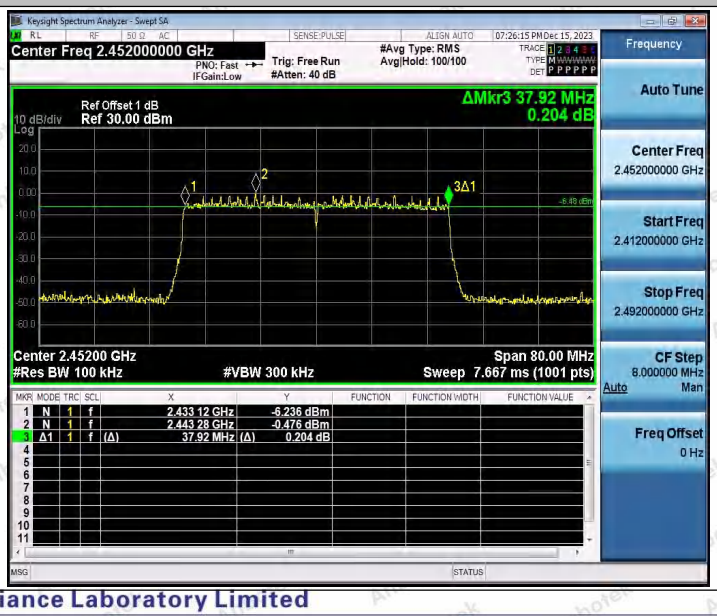
11AX40SISO_Ant1_2437



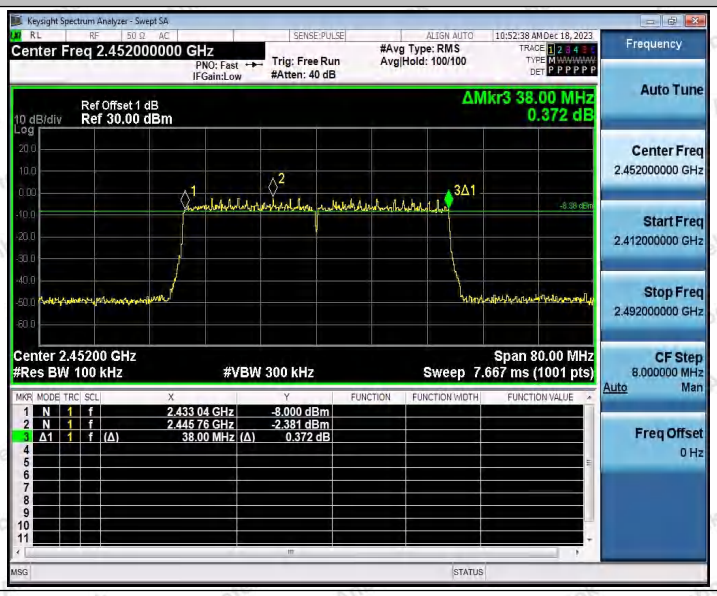
11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



11AX40SISO_Ant2_2452



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.919	2404.5728	2419.4918	---	---
	Ant2	2412	16.490	2403.7513	2420.2413	---	---
	Ant1	2437	14.939	2429.5525	2444.4915	---	---
	Ant2	2437	16.496	2428.7911	2445.2871	---	---
	Ant1	2462	14.895	2454.5686	2469.4636	---	---
	Ant2	2462	16.524	2453.7786	2470.3026	---	---
11G	Ant1	2412	16.496	2403.7875	2420.2835	---	---
	Ant2	2412	16.520	2403.7885	2420.3085	---	---
	Ant1	2437	16.503	2428.7749	2445.2779	---	---
	Ant2	2437	16.512	2428.7932	2445.3052	---	---
	Ant1	2462	16.517	2453.7741	2470.2911	---	---
	Ant2	2462	16.504	2453.7855	2470.2895	---	---
11N20SISO	Ant1	2412	17.602	2403.2350	2420.8370	---	---
	Ant2	2412	17.620	2403.2297	2420.8497	---	---
	Ant1	2437	17.609	2428.2149	2445.8239	---	---
	Ant2	2437	17.642	2428.2106	2445.8526	---	---
	Ant1	2462	17.622	2453.2041	2470.8261	---	---
	Ant2	2462	17.629	2453.2131	2470.8421	---	---
11N40SISO	Ant1	2422	36.175	2403.9671	2440.1421	---	---
	Ant2	2422	36.204	2403.9771	2440.1811	---	---
	Ant1	2437	36.220	2418.9446	2455.1646	---	---
	Ant2	2437	36.229	2418.9709	2455.1999	---	---
	Ant1	2452	36.194	2433.9437	2470.1377	---	---
	Ant2	2452	36.212	2433.9582	2470.1702	---	---
11AX20SISO	Ant1	2412	18.932	2402.5524	2421.4844	---	---
	Ant2	2412	18.957	2402.5107	2421.4677	---	---
	Ant1	2437	18.959	2427.5545	2446.5135	---	---
	Ant2	2437	18.989	2427.5162	2446.5052	---	---
	Ant1	2462	18.975	2452.5192	2471.4942	---	---
	Ant2	2462	18.975	2452.5381	2471.5131	---	---
11AX40SISO	Ant1	2422	37.839	2403.1281	2440.9671	---	---
	Ant2	2422	37.826	2403.1484	2440.9744	---	---
	Ant1	2437	37.883	2418.0797	2455.9627	---	---
	Ant2	2437	37.833	2418.1419	2455.9749	---	---
	Ant1	2452	37.831	2433.1180	2470.9490	---	---
	Ant2	2452	37.830	2433.1281	2470.9581	---	---

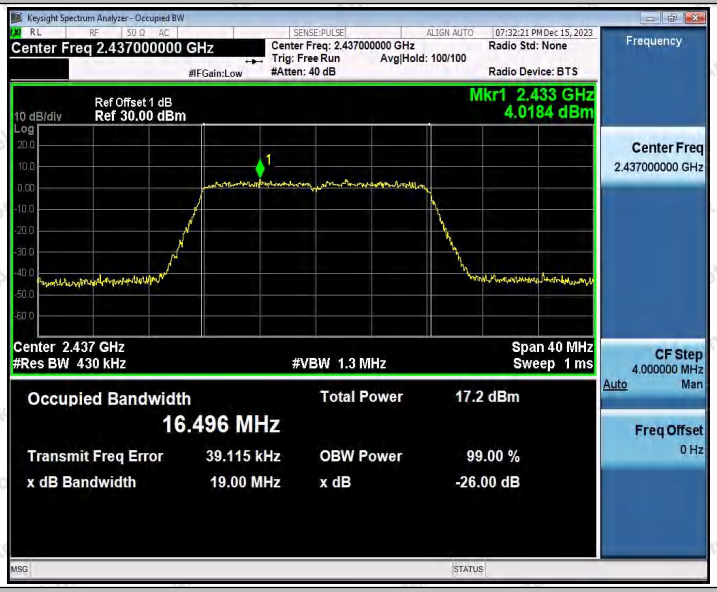
Test Graphs

11B_Ant1_2412

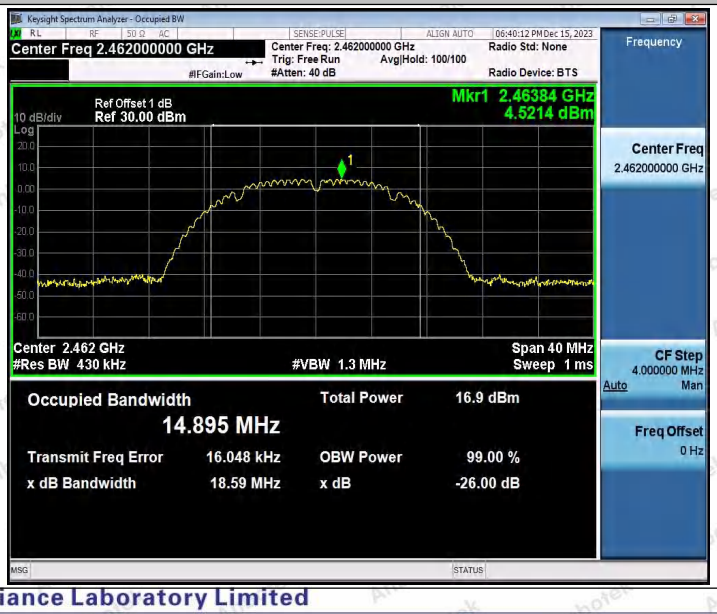
11B_Ant2_2412

11B_Ant1_2437

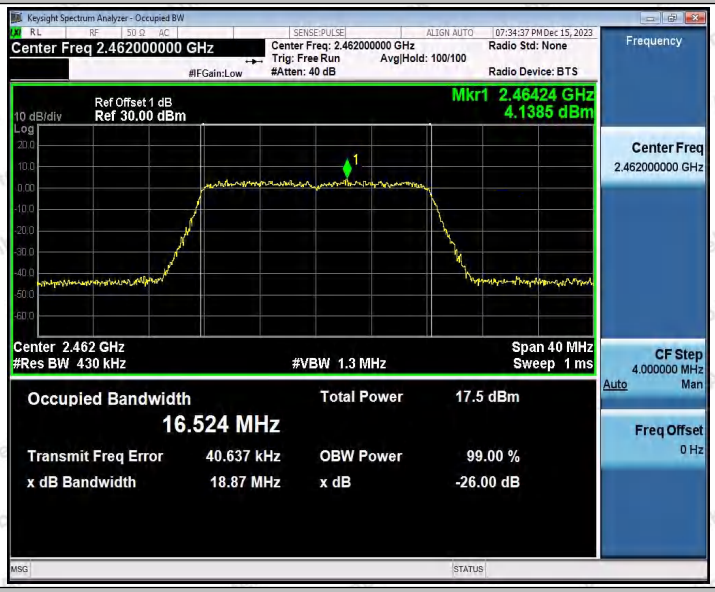
11B_Ant2_2437



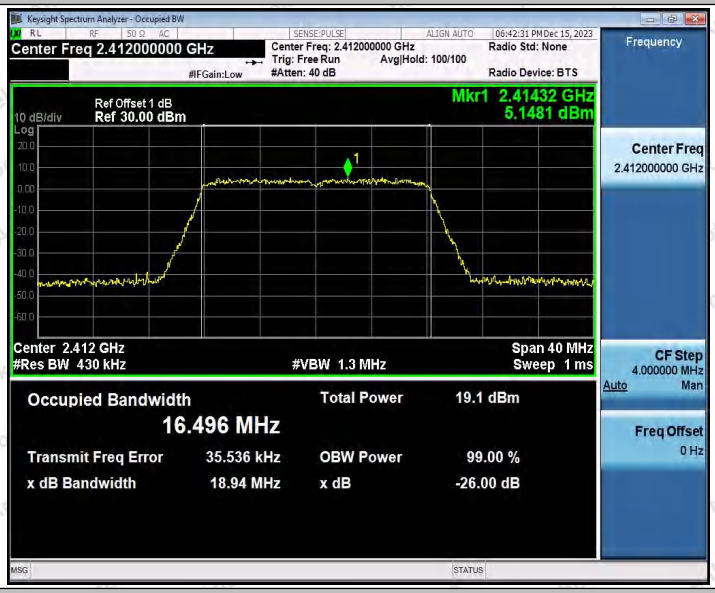
11B_Ant1_2462



11B_Ant2_2462

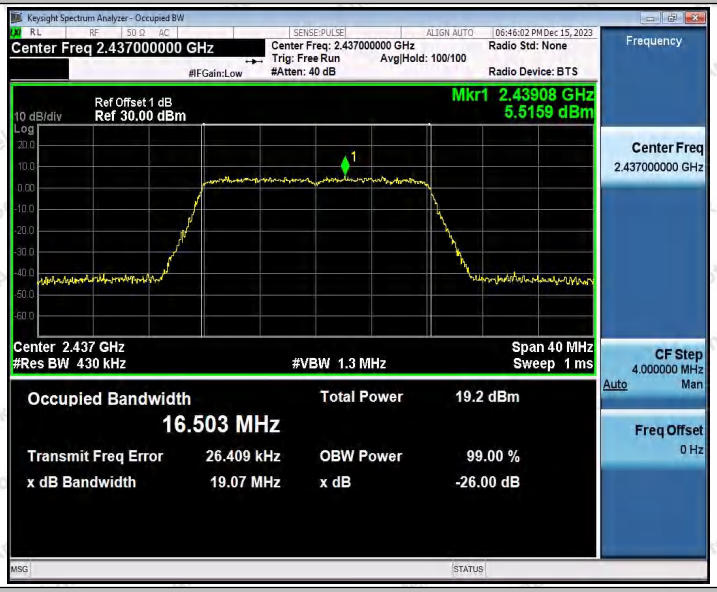


11G_Ant1_2412

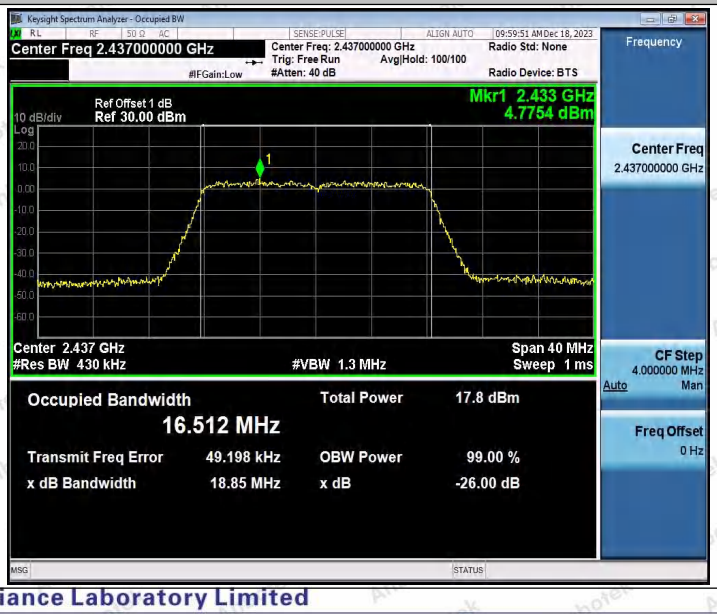


11G_Ant2_2412

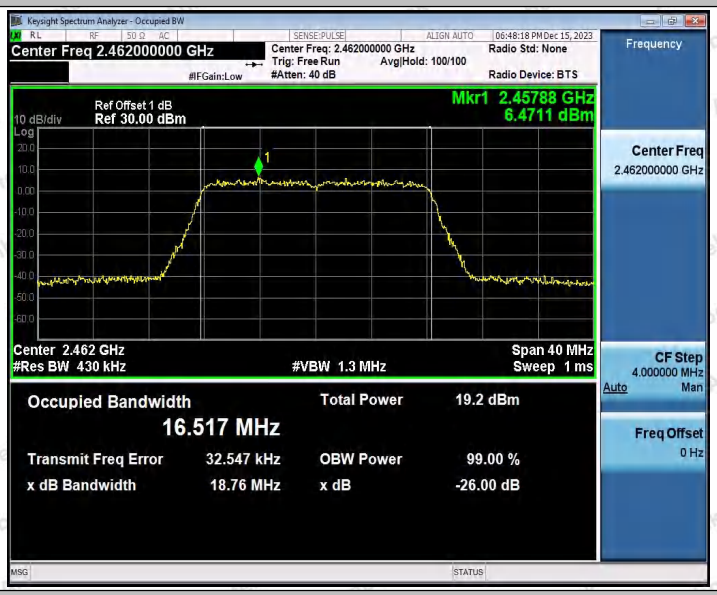
11G_Ant1_2437



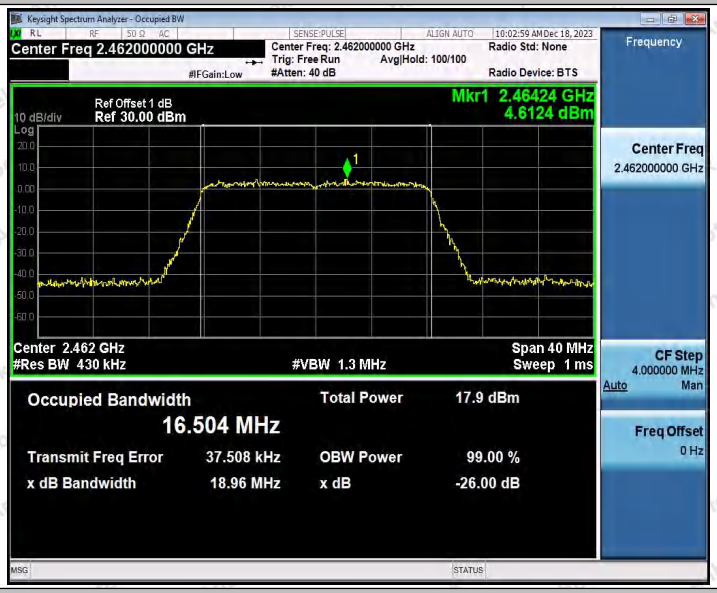
11G_Ant2_2437



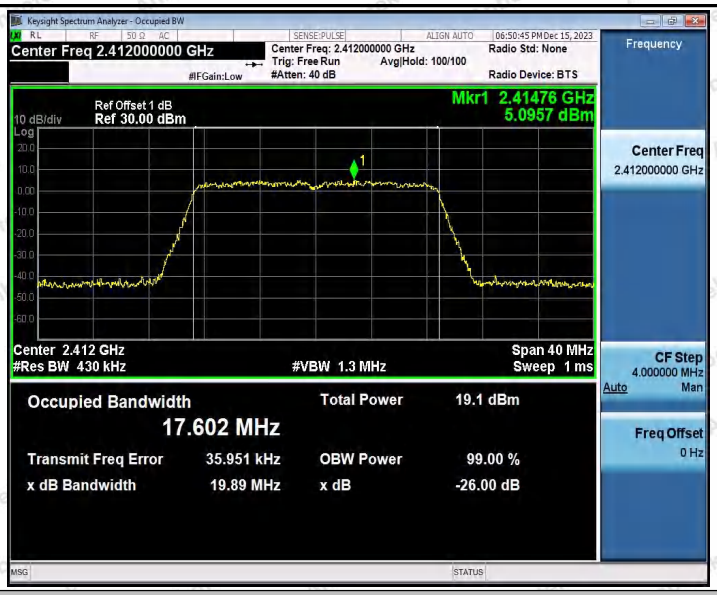
11G_Ant1_2462



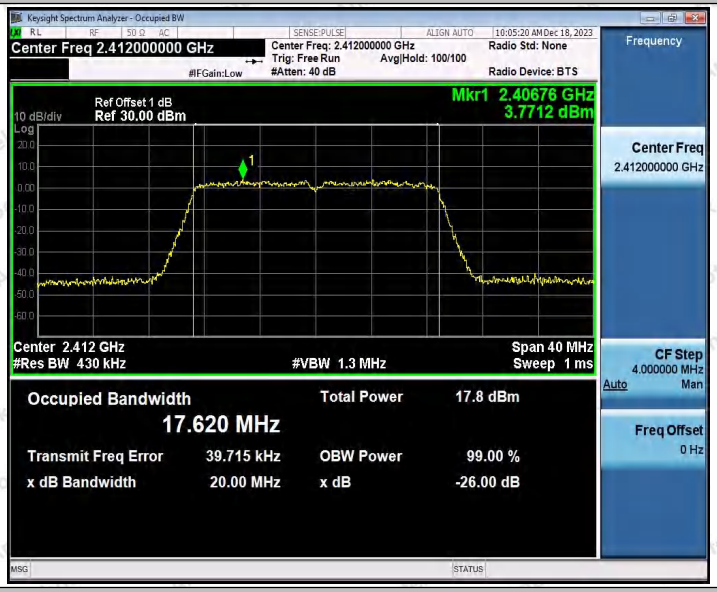
11G_Ant2_2462



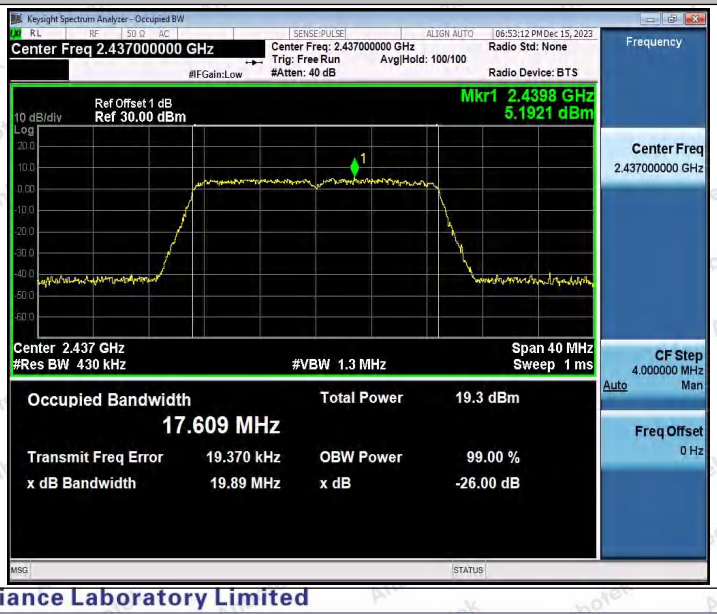
11N20SISO_Ant1_2412



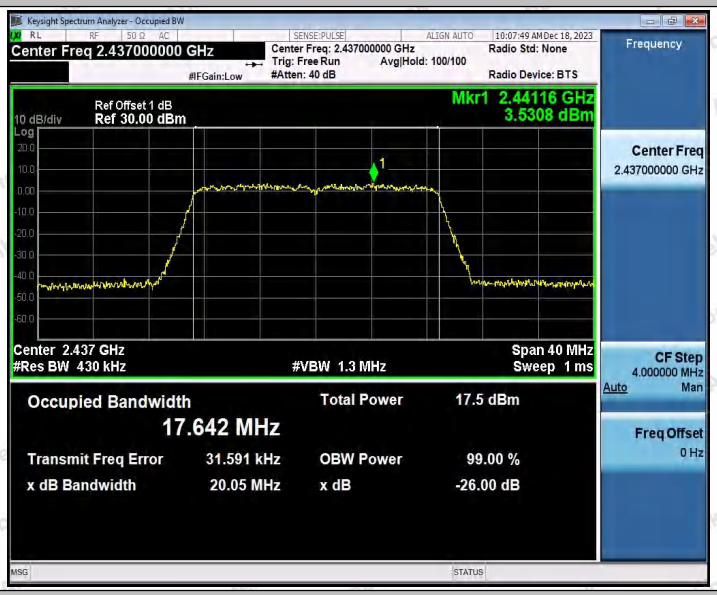
11N20SISO_Ant2_2412



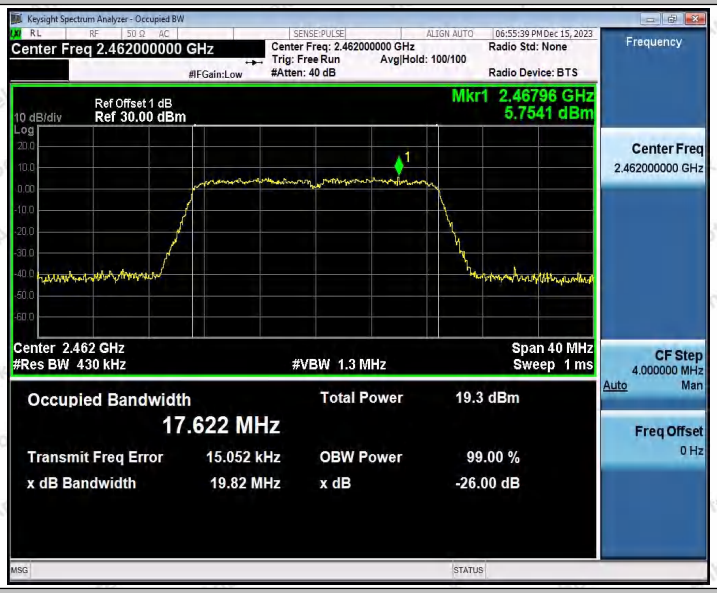
11N20SISO_Ant1_2437



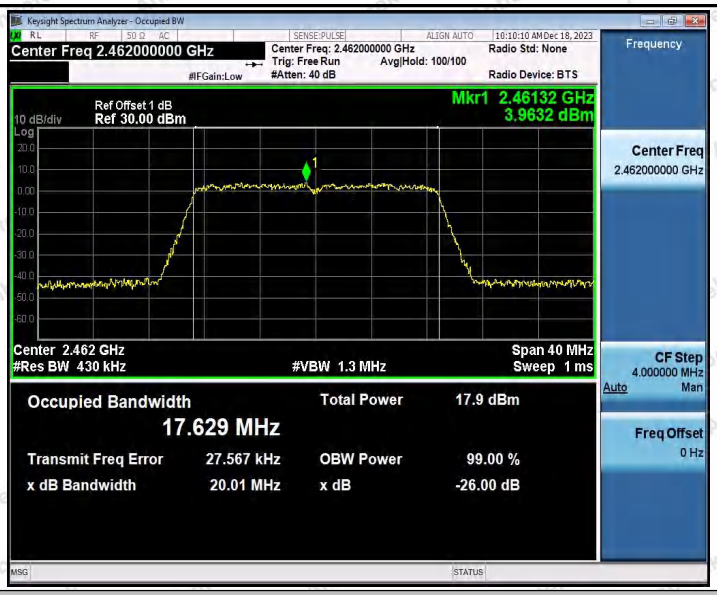
11N20SISO_Ant2_2437



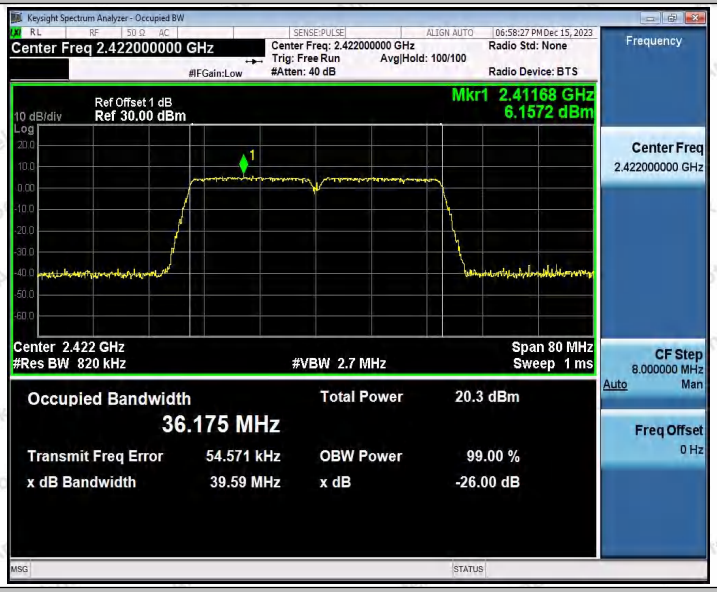
11N20SISO_Ant1_2462



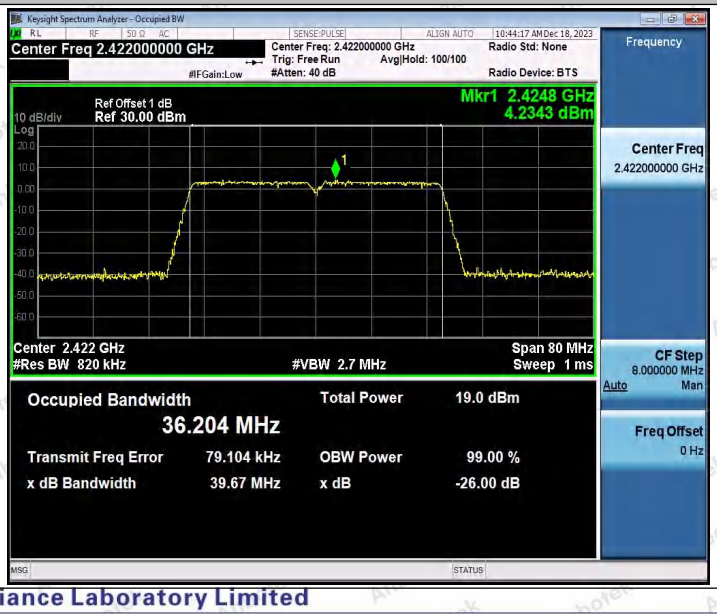
11N20SISO_Ant2_2462



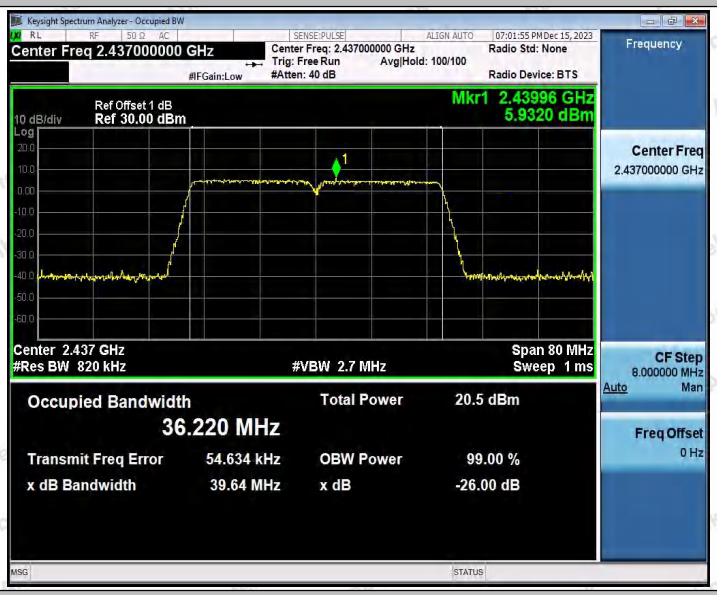
11N40SISO_Ant1_2422



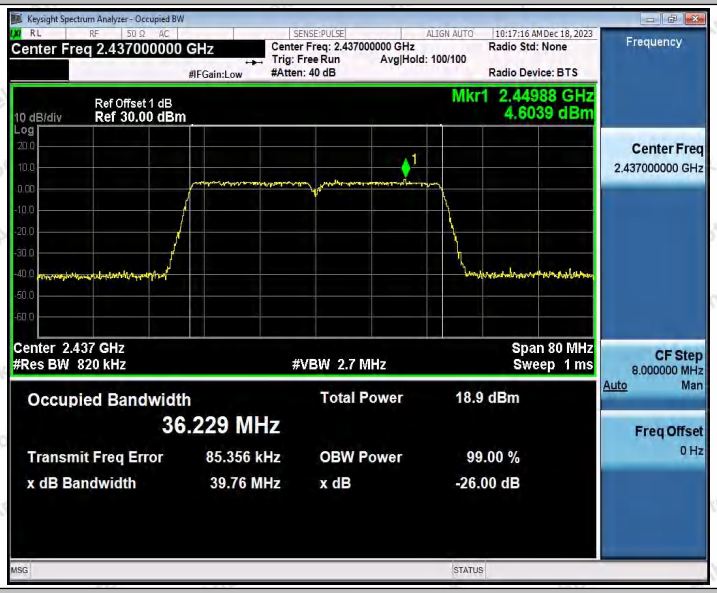
11N40SISO_Ant2_2422



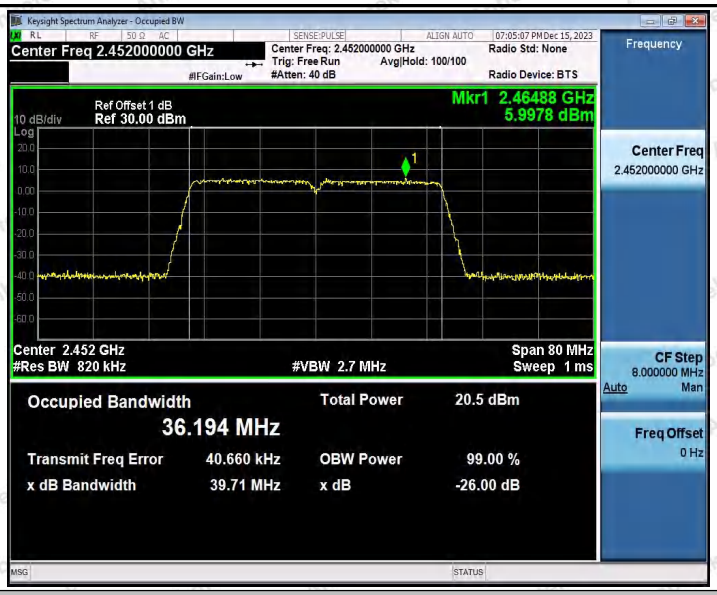
11N40SISO_Ant1_2437



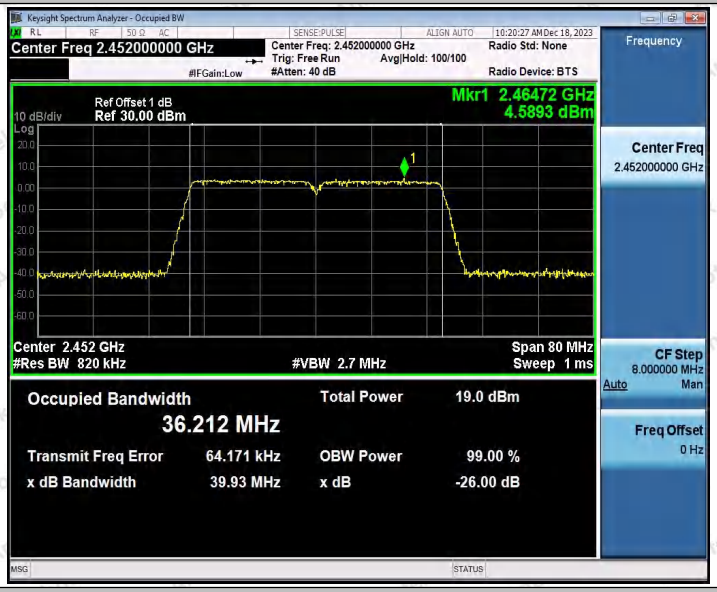
11N40SISO_Ant2_2437



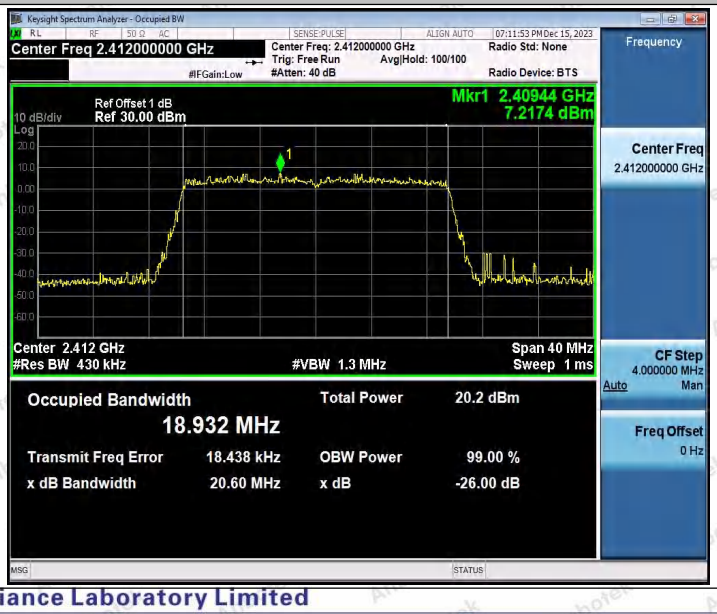
11N40SISO_Ant1_2452



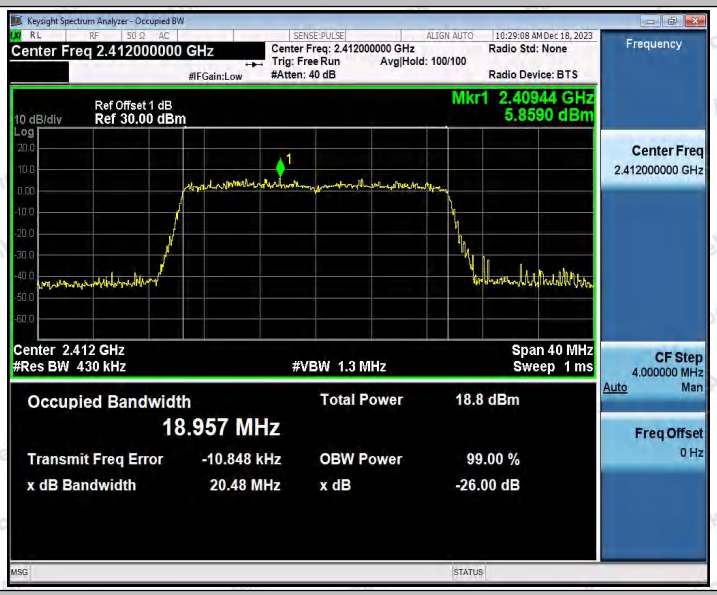
11N40SISO_Ant2_2452



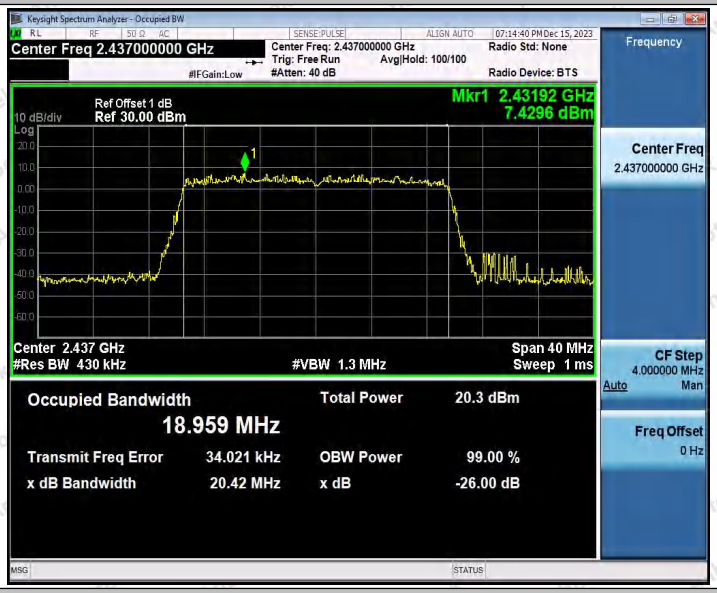
11AX20SISO_Ant1_2412



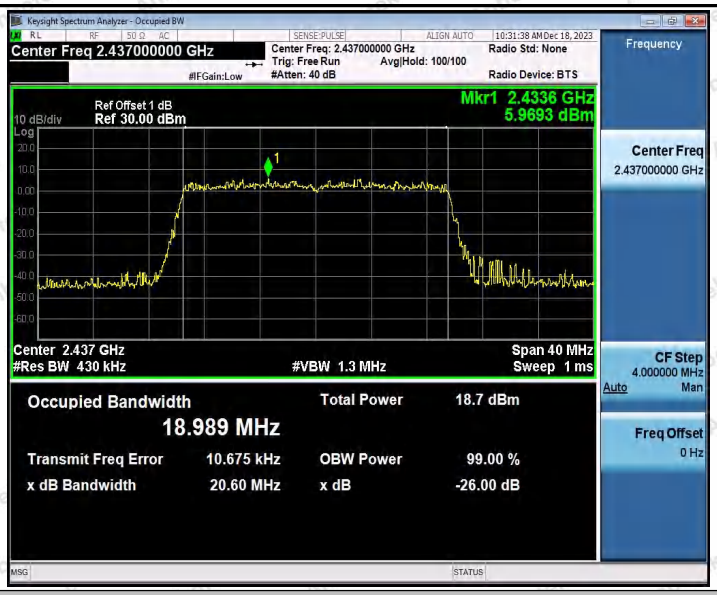
11AX20SISO_Ant2_2412



11AX20SISO_Ant1_2437

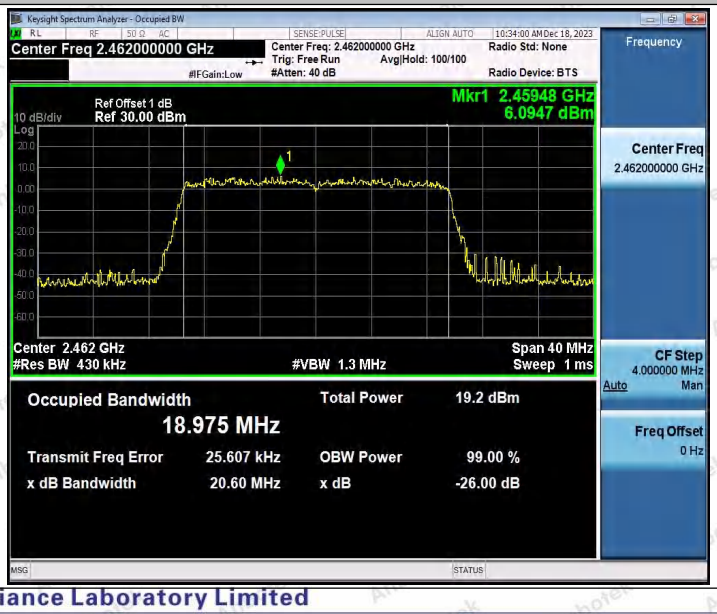


11AX20SISO_Ant2_2437

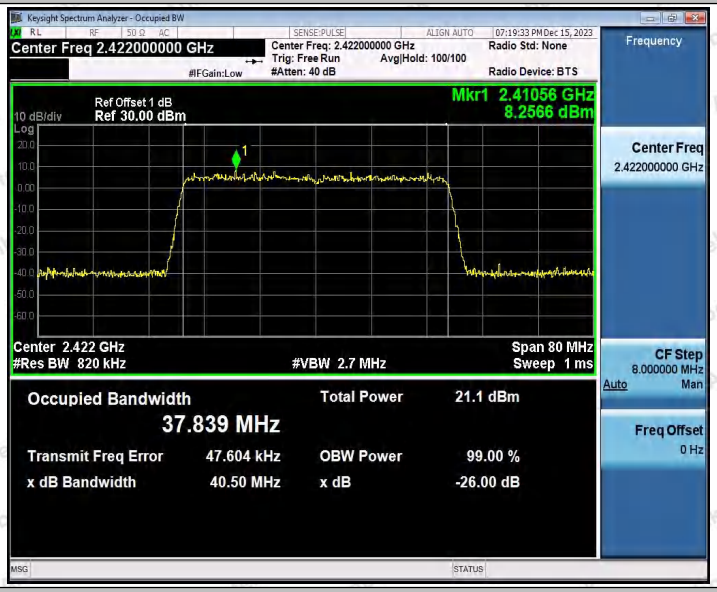


11AX20SISO_Ant1_2462

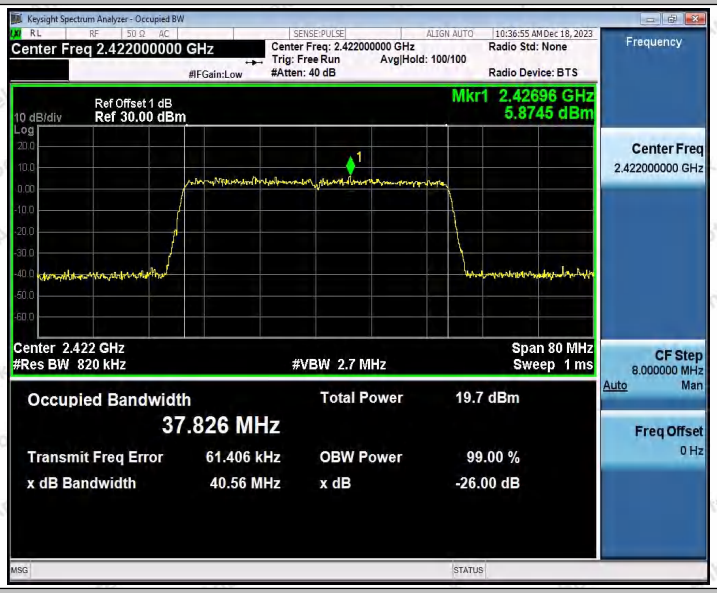
11AX20SISO_Ant2_2462



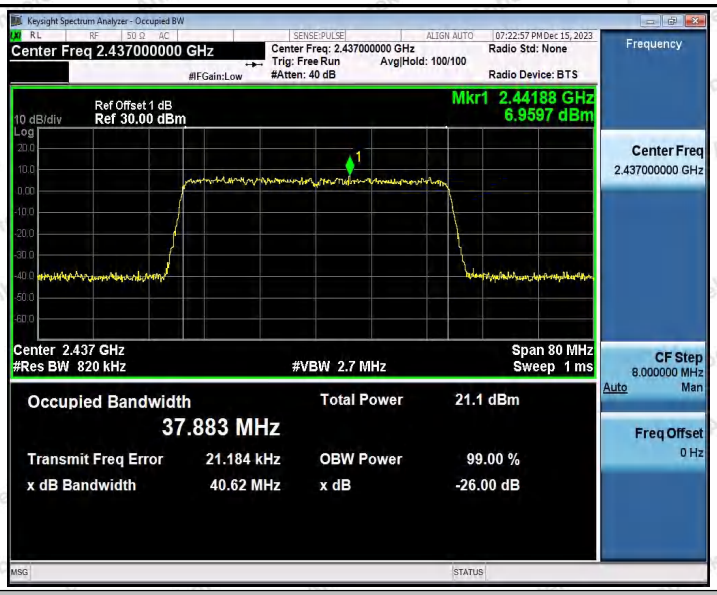
11AX40SISO_Ant1_2422



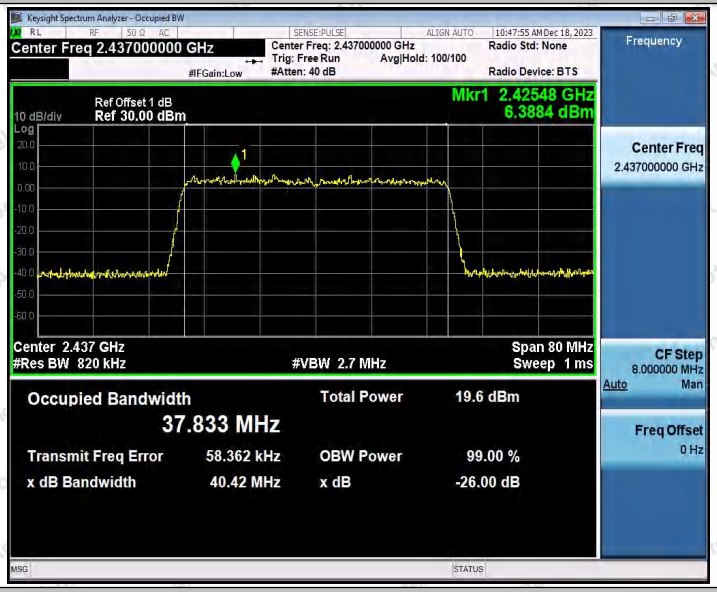
11AX40SISO_Ant2_2422



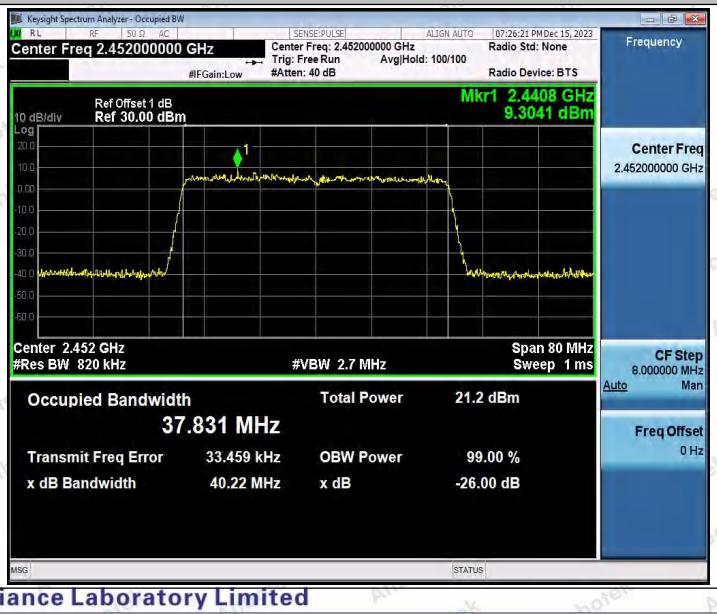
11AX40SISO_Ant1_2437



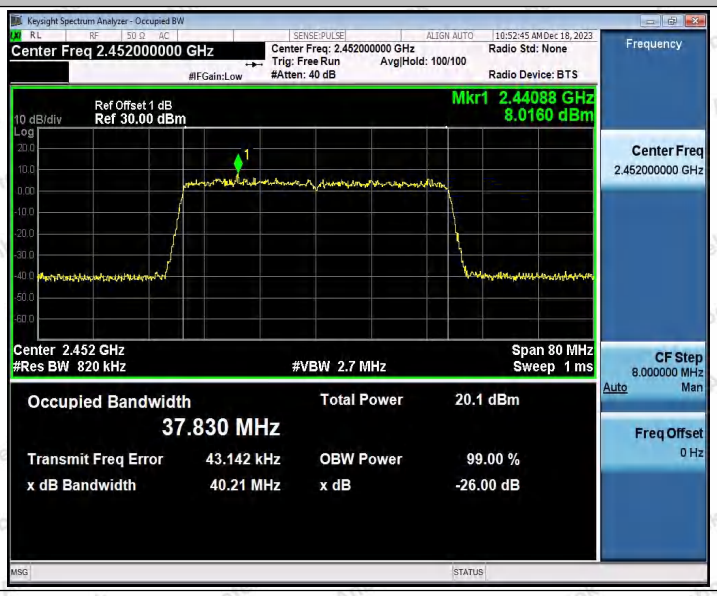
11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



11AX40SISO_Ant2_2452



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.47	≤30.00
	Ant2	2412	11.26	≤30.00
	Ant1	2437	13.94	≤30.00
	Ant2	2437	11.16	≤30.00
	Ant1	2462	13.98	≤30.00
	Ant2	2462	11.46	≤30.00
11G	Ant1	2412	13.07	≤30.00
	Ant2	2412	11.65	≤30.00
	Ant1	2437	13.17	≤30.00
	Ant2	2437	11.67	≤30.00
	Ant1	2462	13.23	≤30.00
	Ant2	2462	11.91	≤30.00
11N20SISO	Ant1	2412	12.98	≤30.00
	Ant2	2412	11.59	≤30.00
	Ant1	2437	13.03	≤30.00
	Ant2	2437	11.49	≤30.00
	Ant1	2462	13.09	≤30.00
	Ant2	2462	11.81	≤30.00
11N40SISO	Ant1	2422	13.42	≤30.00
	Ant2	2422	12.08	≤30.00
	Ant1	2437	13.59	≤30.00
	Ant2	2437	11.96	≤30.00
	Ant1	2452	13.62	≤30.00
	Ant2	2452	12.09	≤30.00
11AX20SISO	Ant1	2412	12.87	≤30.00
	Ant2	2412	11.62	≤30.00
	Ant1	2437	13.09	≤30.00
	Ant2	2437	11.58	≤30.00
	Ant1	2462	13.05	≤30.00
	Ant2	2462	11.93	≤30.00
11AX40SISO	Ant1	2422	13.54	≤30.00
	Ant2	2422	12.13	≤30.00
	Ant1	2437	13.62	≤30.00
	Ant2	2437	12.05	≤30.00
	Ant1	2452	13.63	≤30.00
	Ant2	2452	12.46	≤30.00

Note：The Duty Cycle Factor(10*log(1/D)) and cable loss are compensated in the graph.

MIMO:

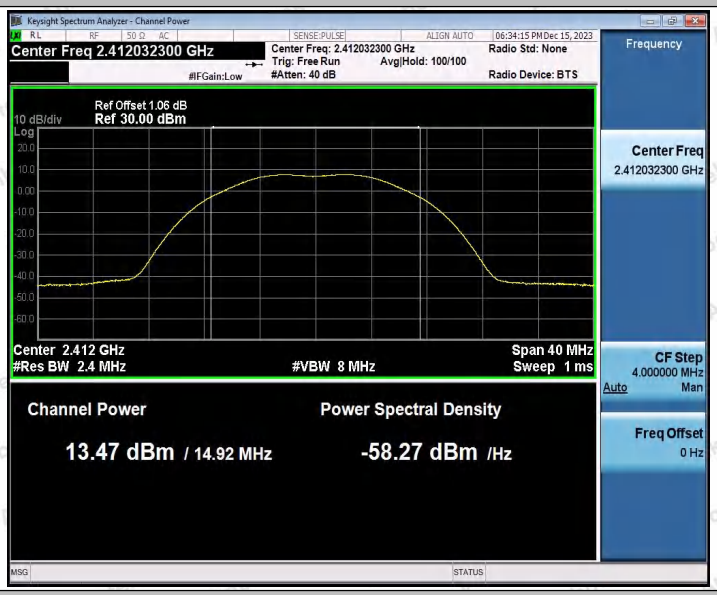
Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Total [dBm]	Limit [dBm]	Verdict
11N20MIMO	Ant1	2412	12.98	15.35	≤30.00	PASS
	Ant2	2412	11.59			
	Ant1	2437	13.03	15.34	≤30.00	PASS
	Ant2	2437	11.49			
	Ant1	2462	13.09	15.51	≤30.00	PASS
	Ant2	2462	11.81			
11N40MIMO	Ant1	2422	13.42	15.81	≤30.00	PASS
	Ant2	2422	12.08			
	Ant1	2437	13.59	15.86	≤30.00	PASS
	Ant2	2437	11.96			
	Ant1	2452	13.62	15.93	≤30.00	PASS
	Ant2	2452	12.09			
11AX20MIMO	Ant1	2412	12.87	15.30	≤30.00	PASS
	Ant2	2412	11.62			
	Ant1	2437	13.09	15.41	≤30.00	PASS
	Ant2	2437	11.58			
	Ant1	2462	13.05	15.54	≤30.00	PASS
	Ant2	2462	11.93			
11AX40MIMO	Ant1	2422	13.54	15.90	≤30.00	PASS
	Ant2	2422	12.13			
	Ant1	2437	13.62	15.92	≤30.00	PASS
	Ant2	2437	12.05			
	Ant1	2452	13.63	**16.09**	≤30.00	PASS
	Ant2	2452	12.46			

Note:

1. Total (dBm)=10xlog($10^{(\text{ANT1 power(dBm)}/10)}$ + $10^{(\text{ANT2 power(dBm)}/10)}$)

Test Graphs

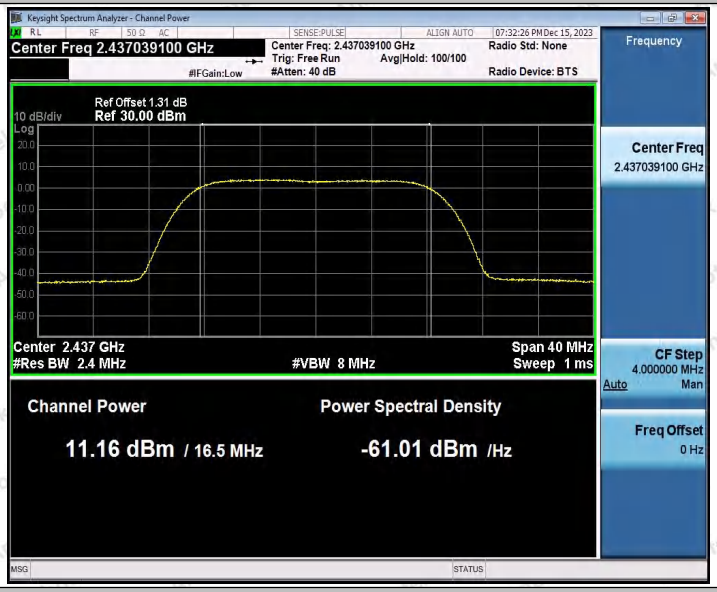
11B_Ant1_2412



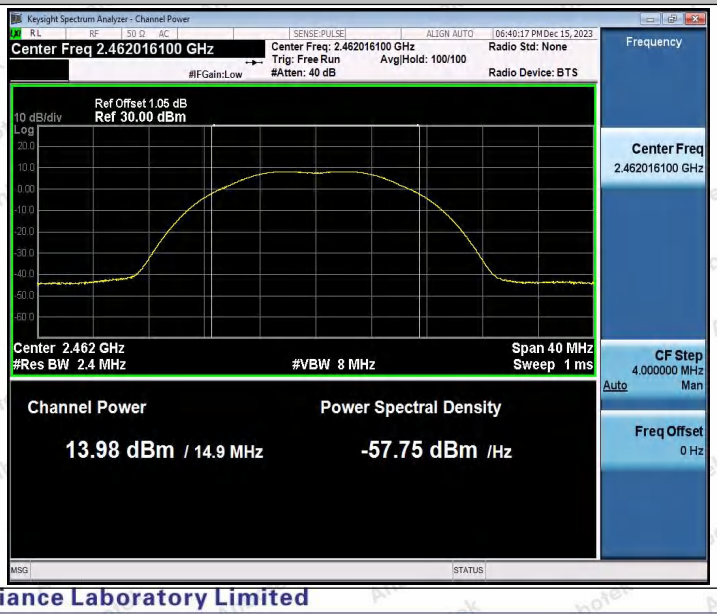
11B_Ant2_2412

11B_Ant1_2437

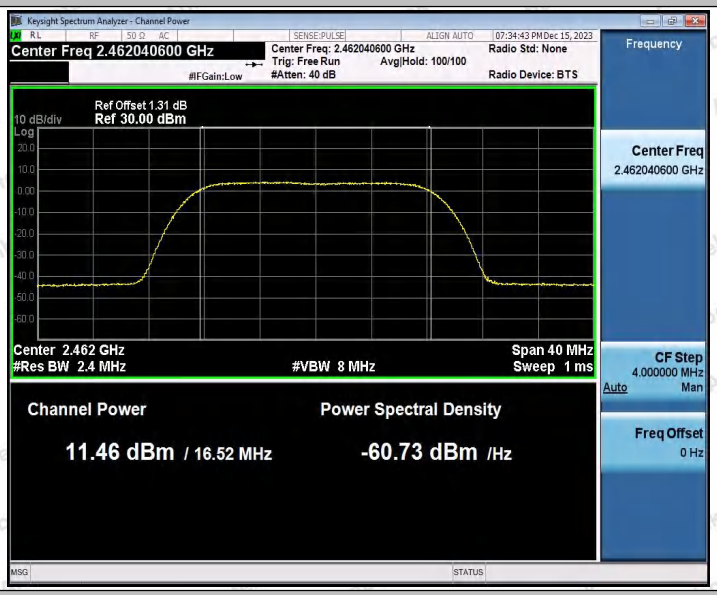
11B_Ant2_2437



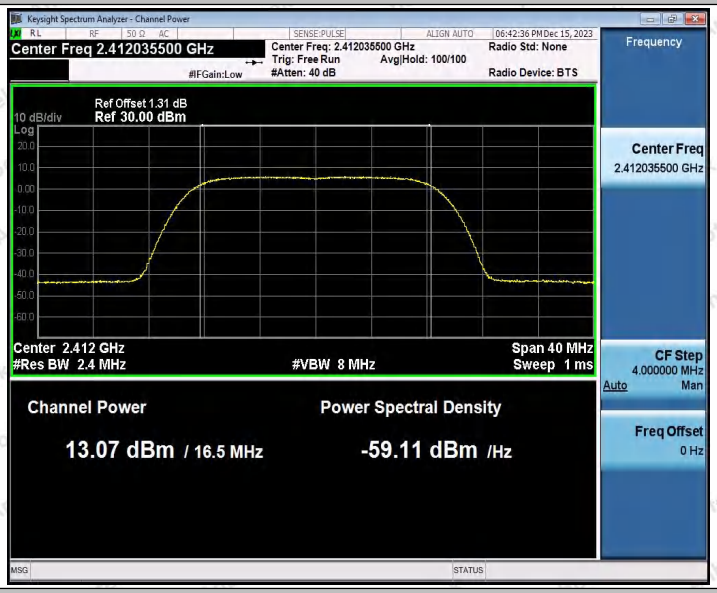
11B_Ant1_2462



11B_Ant2_2462

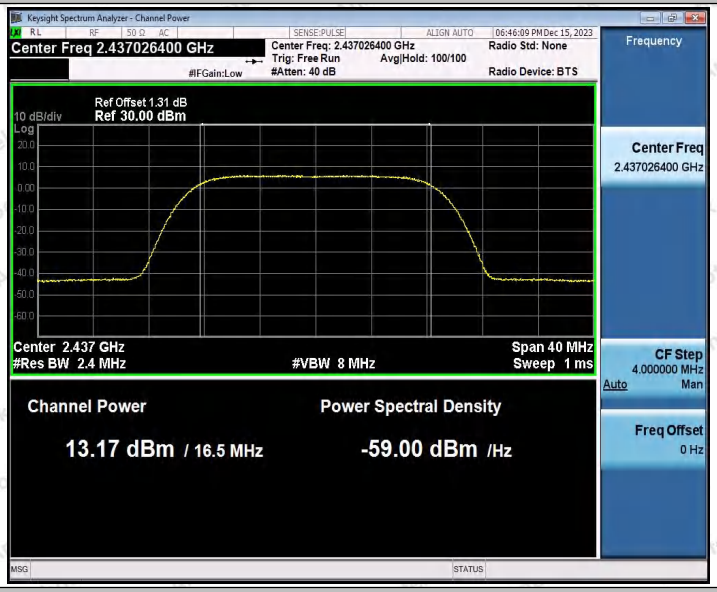


11G_Ant1_2412

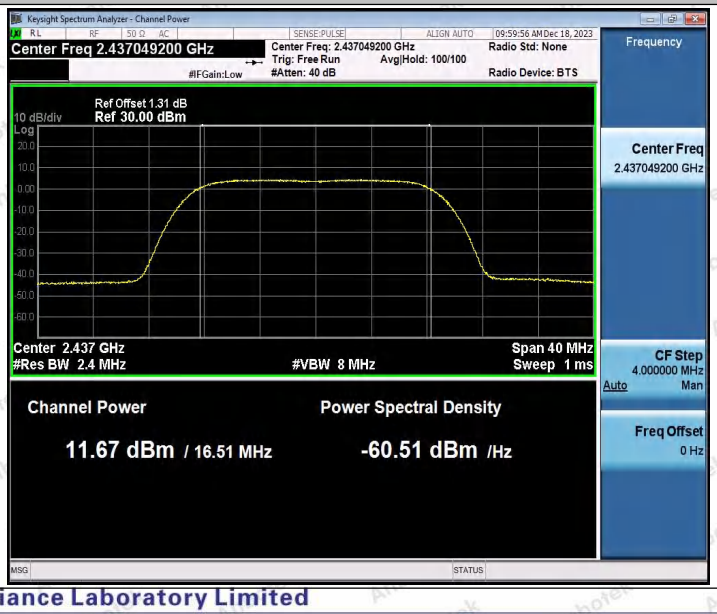


11G_Ant2_2412

11G_Ant1_2437

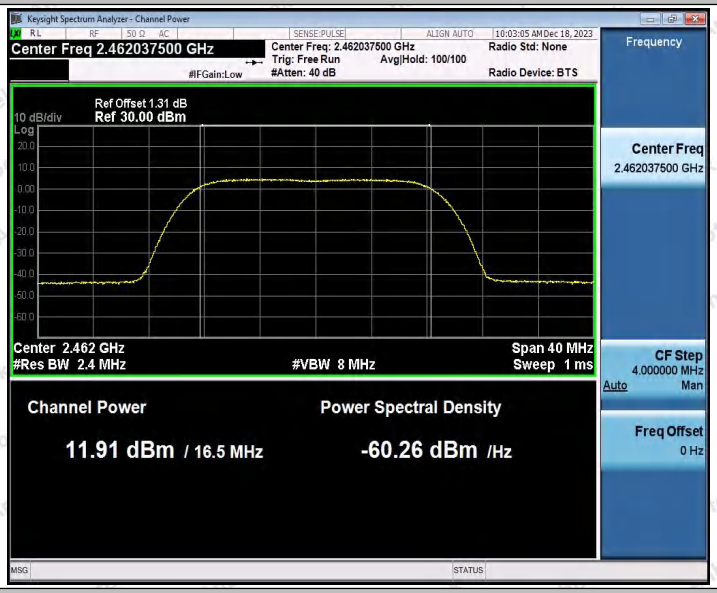


11G_Ant2_2437

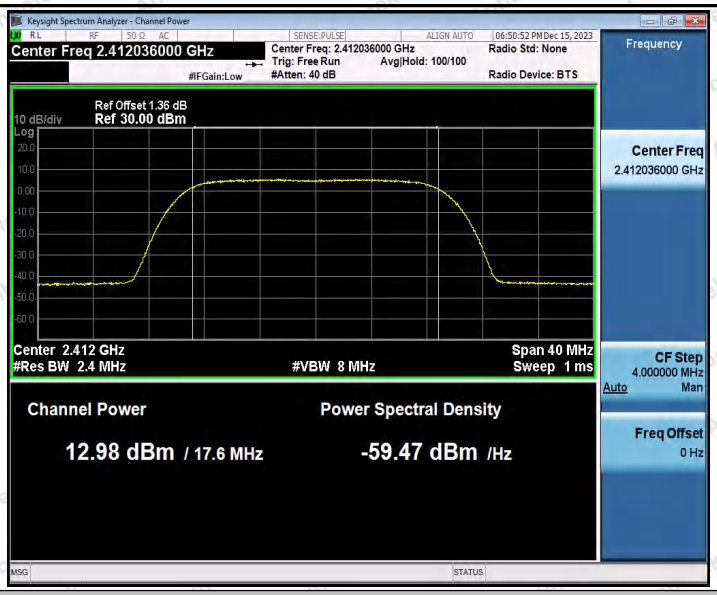


11G_Ant1_2462

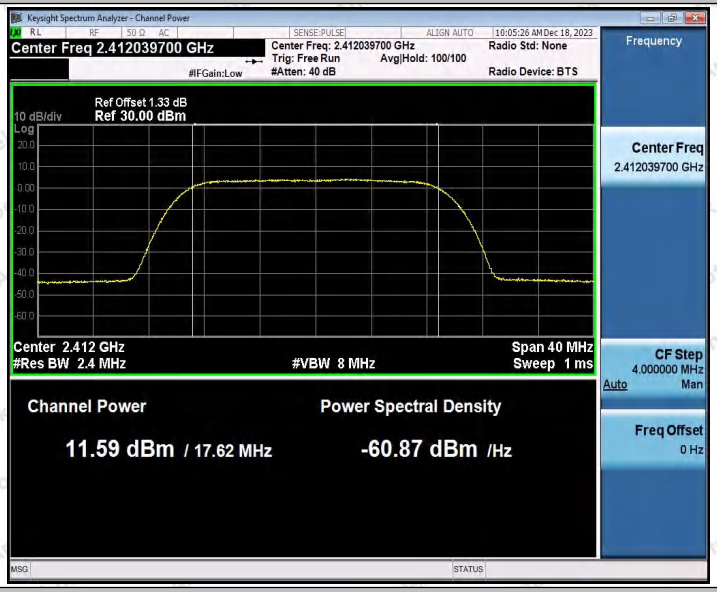
11G_Ant2_2462



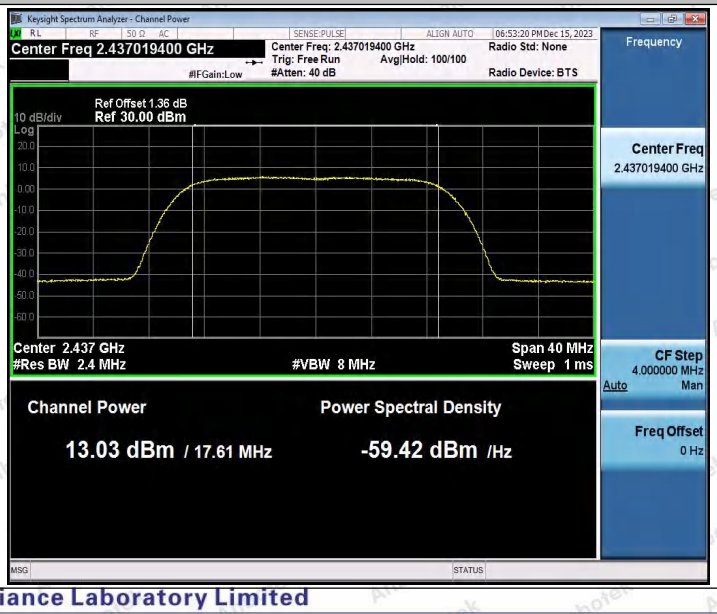
11N20SISO_Ant1_2412



11N20SISO_Ant2_2412

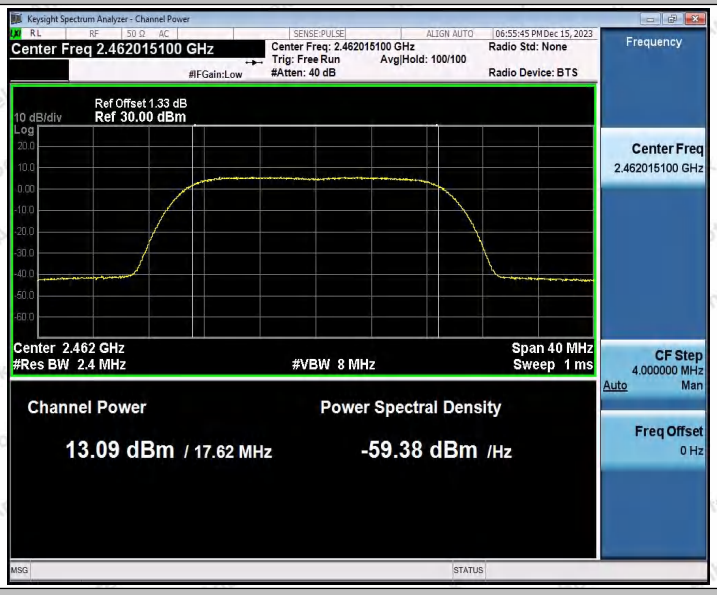


11N20SISO_Ant1_2437

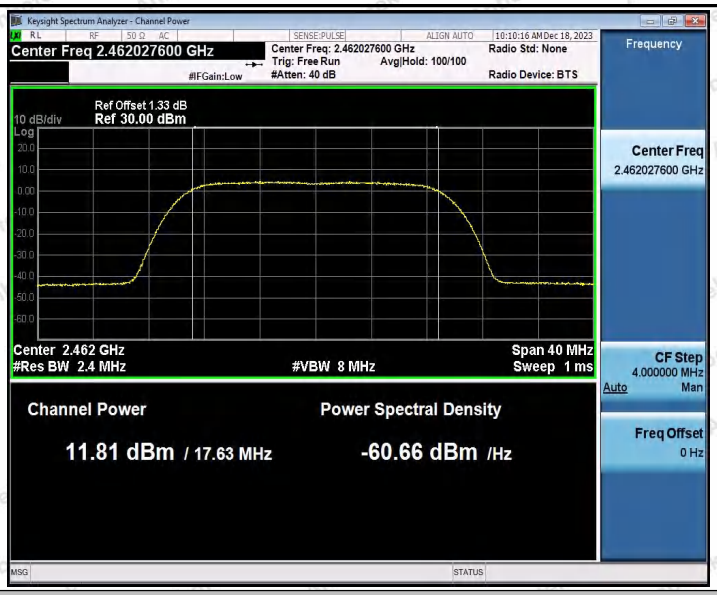


11N20SISO_Ant2_2437

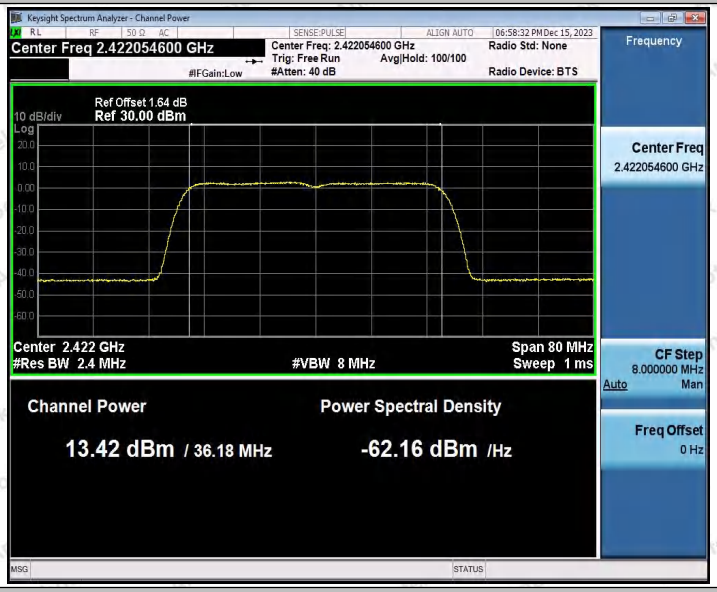
11N20SISO_Ant1_2462



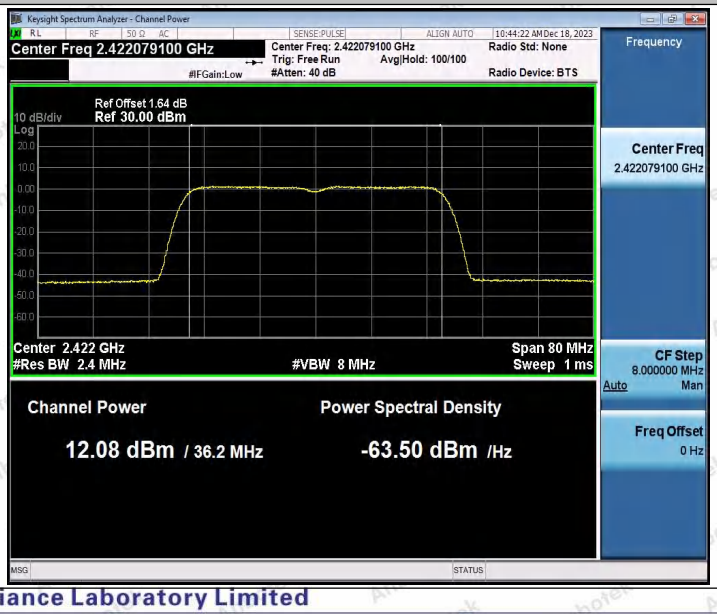
11N20SISO_Ant2_2462



11N40SISO_Ant1_2422

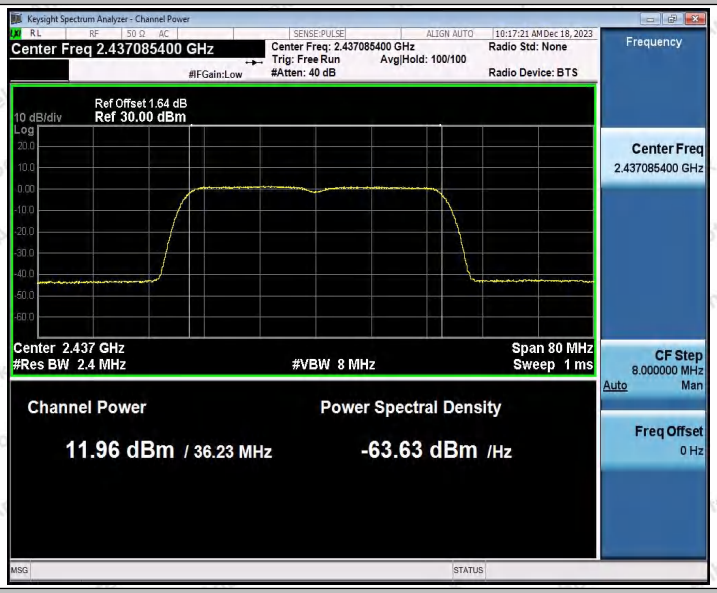


11N40SISO_Ant2_2422



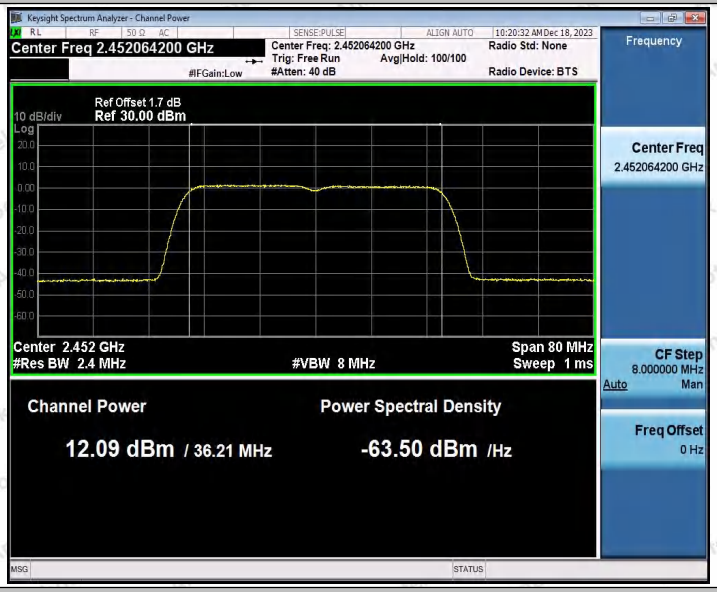
11N40SISO_Ant1_2437

11N40SISO_Ant2_2437

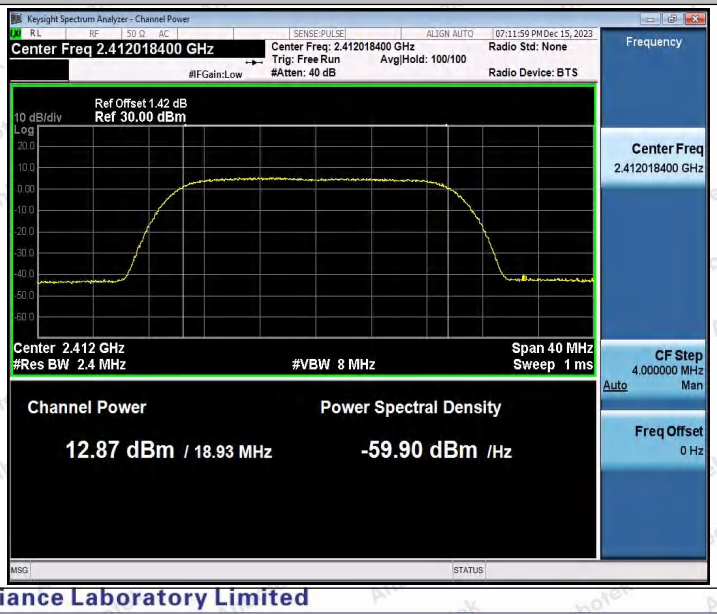


11N40SISO_Ant1_2452

11N40SISO_Ant2_2452

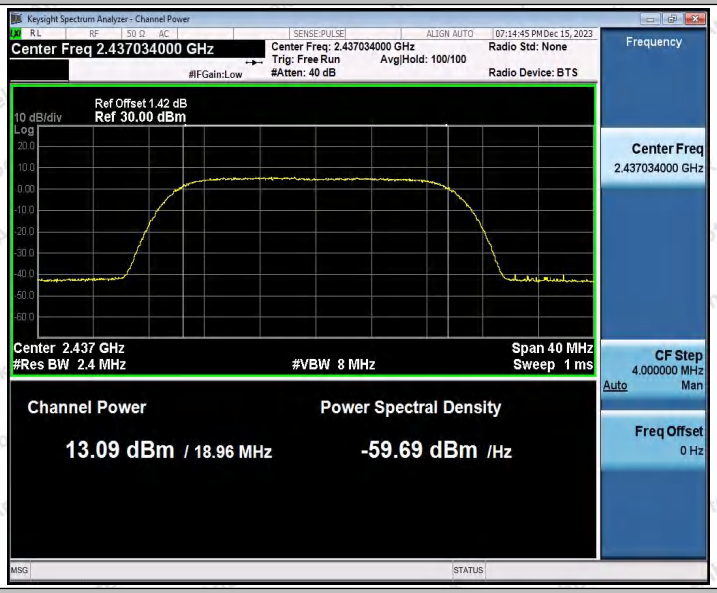


11AX20SISO_Ant1_2412



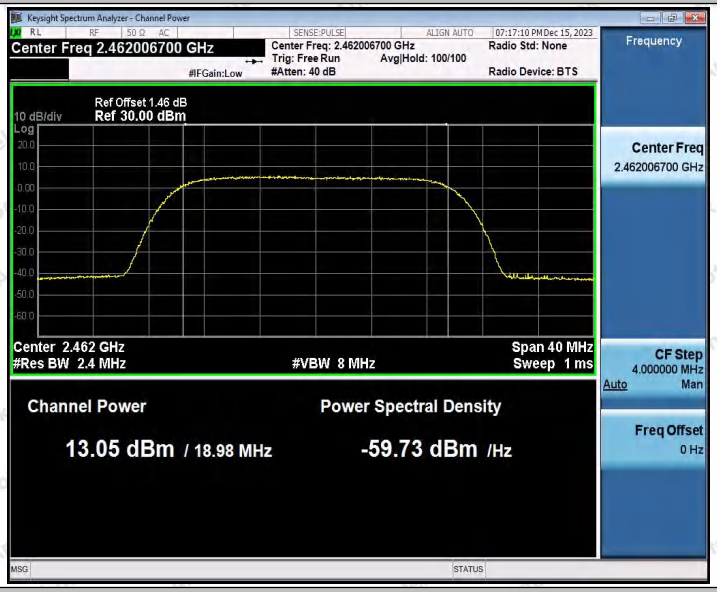
11AX20SISO_Ant2_2412

11AX20SISO_Ant1_2437

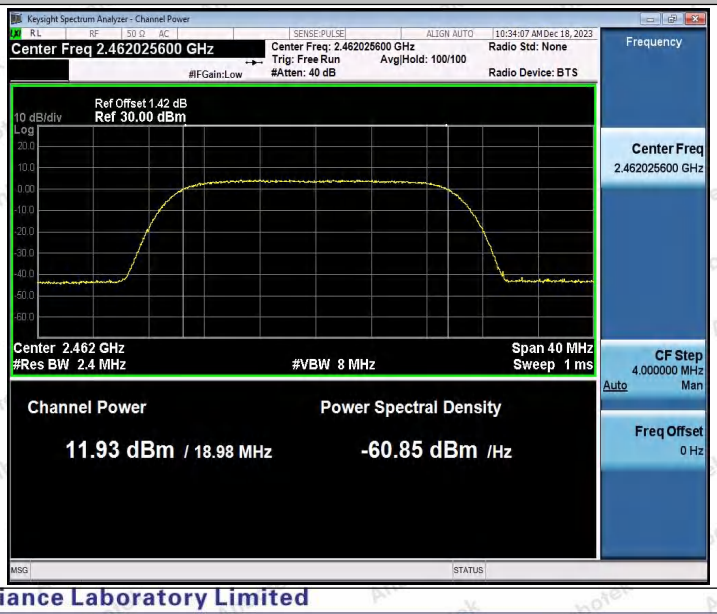


11AX20SISO_Ant2_2437

11AX20SISO_Ant1_2462



11AX20SISO_Ant2_2462

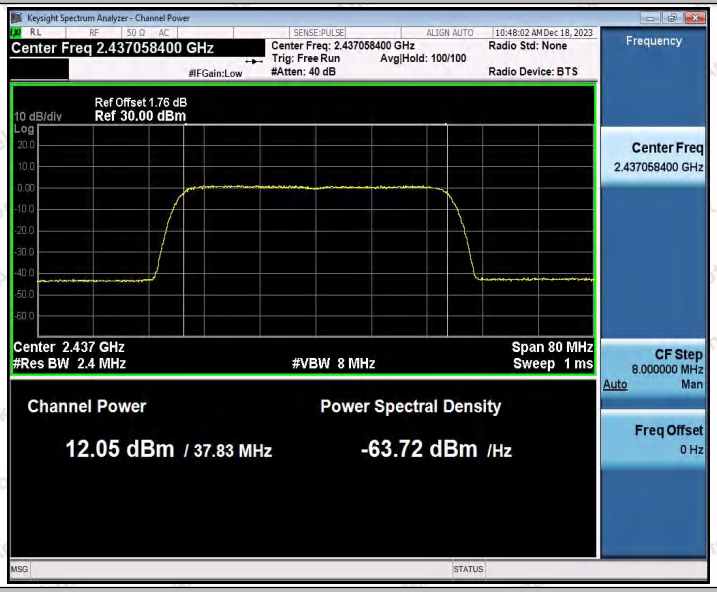


11AX40SISO_Ant1_2422

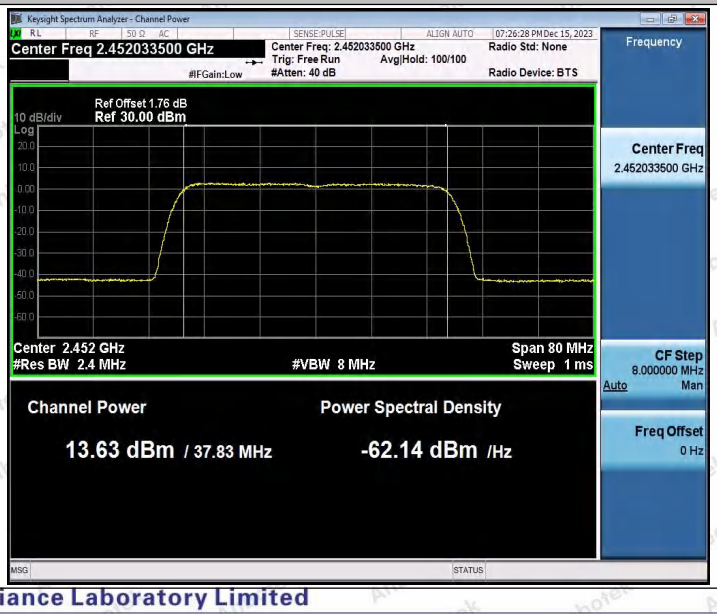
11AX40SISO_Ant2_2422

11AX40SISO_Ant1_2437

11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



11AX40SISO_Ant2_2452