Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.03	≤8.00	PASS
	Ant2	2412	-16.43	≤8.00	PASS
	Ant1	2437	-17.26	≤8.00	PASS
	Ant2	2437	-16.51	≤8.00	PASS
	Ant1	2462	-17.21	≤8.00	PASS
	Ant2	2462	-15.79	≤8.00	PASS
11G	Ant1	2412	-17.72	≤8.00	PASS
	Ant2	2412	-16.63	≤8.00	PASS
	Ant1	2437	-18.1	≤8.00	PASS
	Ant2	2437	-16.93	≤8.00	PASS
	Ant1	2462	-18.2	≤8.00	PASS
	Ant2	2462	-16.55	≤8.00	PASS
11N20SISO	Ant1	2412	-17.74	≤8.00	PASS
	Ant2	2412	-16.02	≤8.00	PASS
	Ant1	2437	-17.14	≤8.00	PASS
	Ant2	2437	-18.21	≤8.00	PASS
	Ant1	2462	-17.36	≤8.00	PASS
	Ant2	2462	-15.91	≤8.00	PASS
11N40SISO	Ant1	2422	-18.54	≤8.00	PASS
	Ant2	2422	-18.75	≤8.00	PASS
	Ant1	2437	-18.7	≤8.00	PASS
	Ant2	2437	-17.85	≤8.00	PASS
	Ant1	2452	-18.93	≤8.00	PASS
	Ant2	2452	-17.52	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.8	≤8.00	PASS
	Ant2	2412	-17.05	≤8.00	PASS
	Ant1	2437	-18.26	≤8.00	PASS
	Ant2	2437	-17.3	≤8.00	PASS
	Ant1	2462	-17.14	≤8.00	PASS
	Ant2	2462	-16.15	≤8.00	PASS
11AX40SISO	Ant1	2422	-19.87	≤8.00	PASS
	Ant2	2422	-19.25	≤8.00	PASS
	Ant1	2437	-19.37	≤8.00	PASS
	Ant2	2437	-18.29	≤8.00	PASS
	Ant1	2452	-19.87	≤8.00	PASS
	Ant2	2452	-18.62	≤8.00	PASS

MIMO:

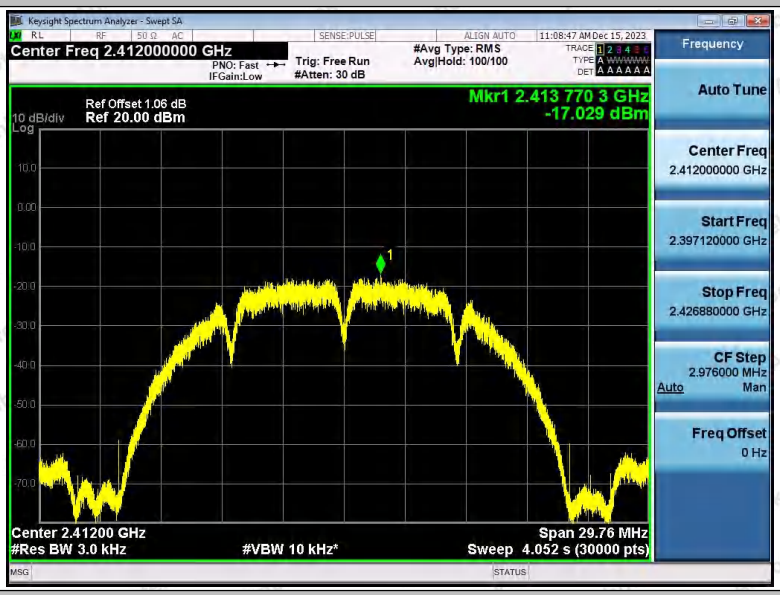
Test Mode	Antenna	Frequency[MHz]	Result [dBm/3kHz]	Total [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20MIMO	Ant1	2412	-17.74	-13.79	≤8.00	PASS
	Ant2	2412	-16.02			
	Ant1	2437	-17.14	-14.63	≤8.00	PASS
	Ant2	2437	-18.21			
	Ant1	2462	-17.36	-13.56	≤8.00	PASS
	Ant2	2462	-15.91			
11N40MIMO	Ant1	2422	-18.54	-15.63	≤8.00	PASS
	Ant2	2422	-18.75			
	Ant1	2437	-18.70	-15.24	≤8.00	PASS
	Ant2	2437	-17.85			
	Ant1	2452	-18.93	-15.16	≤8.00	PASS
	Ant2	2452	-17.52			
11AX20MIMO	Ant1	2412	-17.80	-14.40	≤8.00	PASS
	Ant2	2412	-17.05			
	Ant1	2437	-18.26	-14.74	≤8.00	PASS
	Ant2	2437	-17.30			
	Ant1	2462	-17.14	-13.61	≤8.00	PASS
	Ant2	2462	-16.15			
11AX40MIMO	Ant1	2422	-19.87	-16.54	≤8.00	PASS
	Ant2	2422	-19.25			
	Ant1	2437	-19.37	-15.79	≤8.00	PASS
	Ant2	2437	-18.29			
	Ant1	2452	-19.87	-16.19	≤8.00	PASS
	Ant2	2452	-18.62			

Note:

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

Test Graphs

11B_Ant1_2412



11B_Ant2_2412

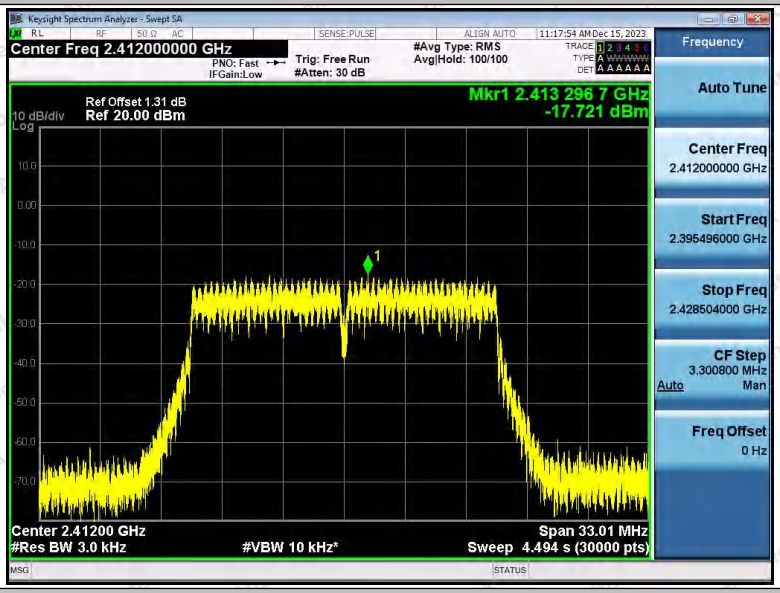
11B_Ant1_2437

11B_Ant2_2437

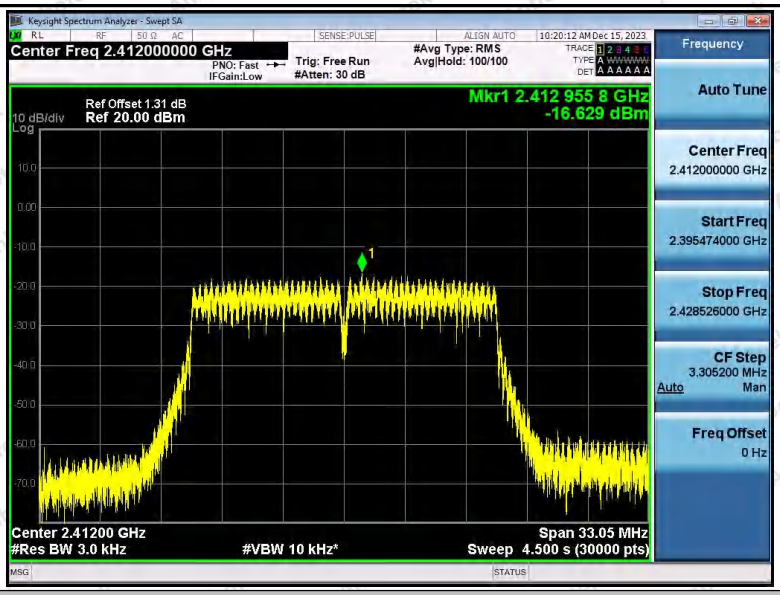
11B_Ant1_2462

11B_Ant2_2462

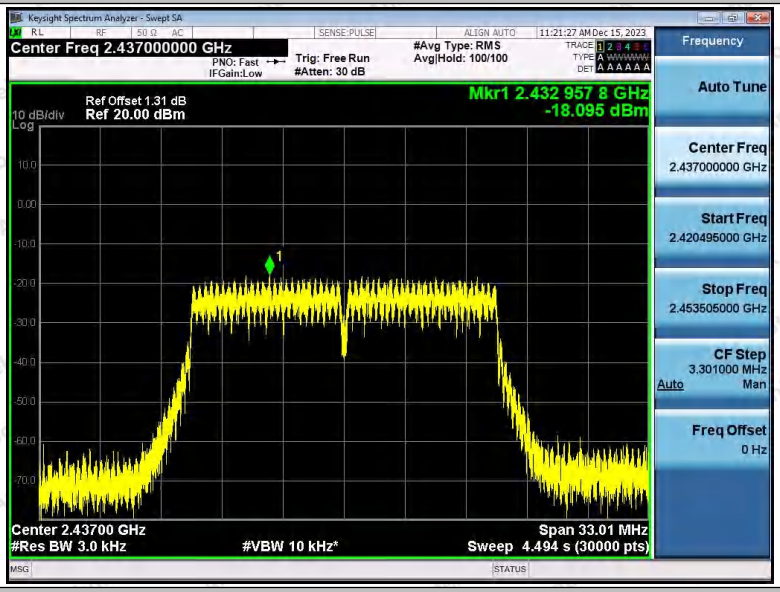
11G_Ant1_2412



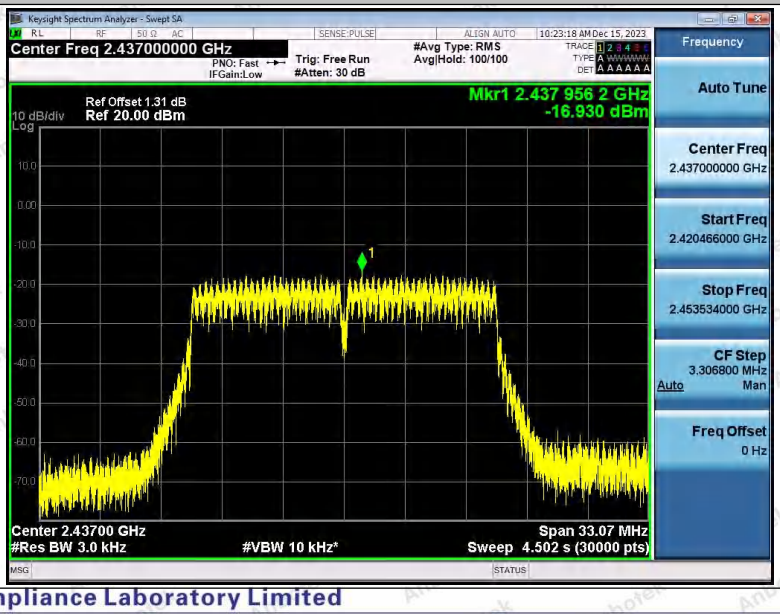
11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437



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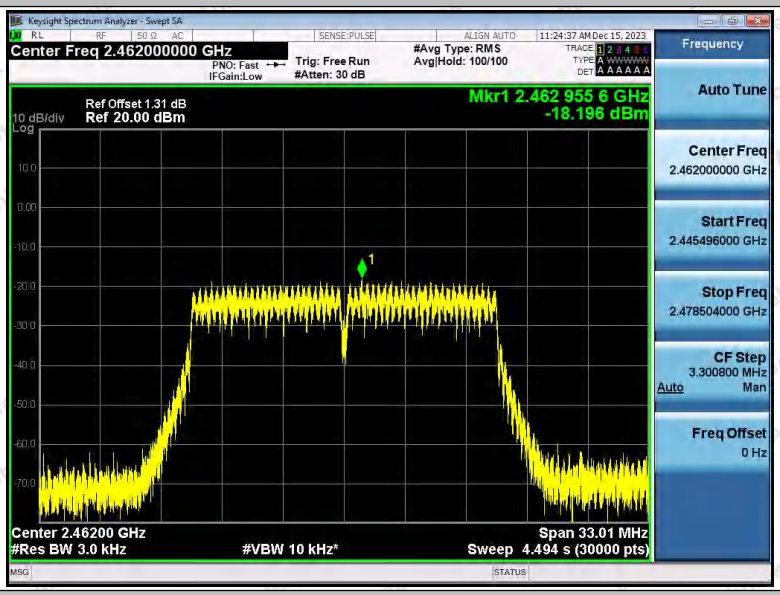

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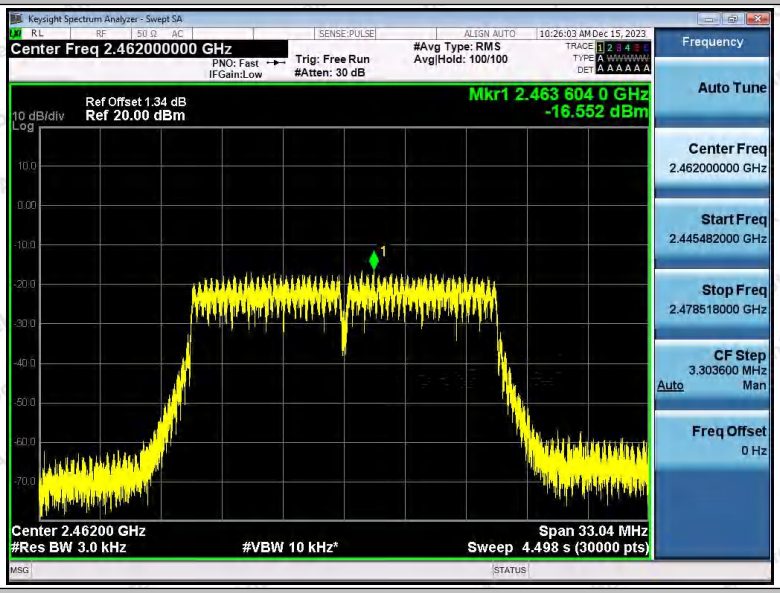

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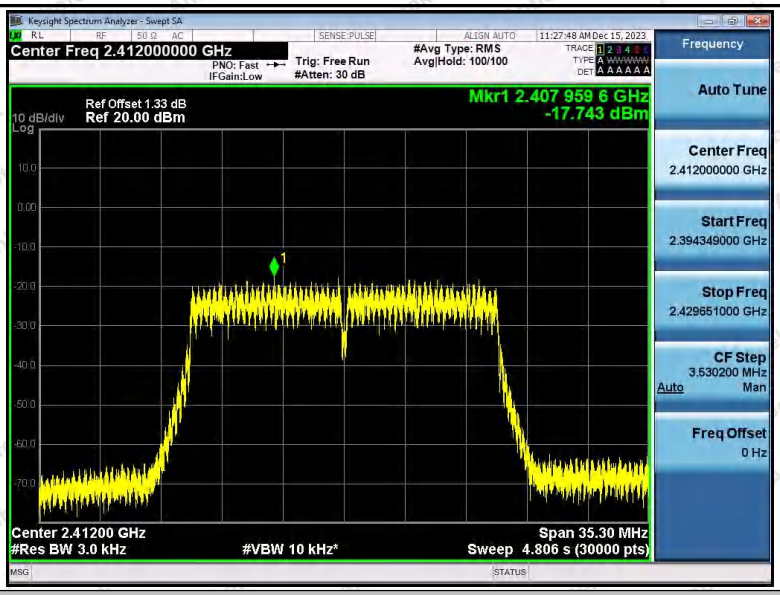

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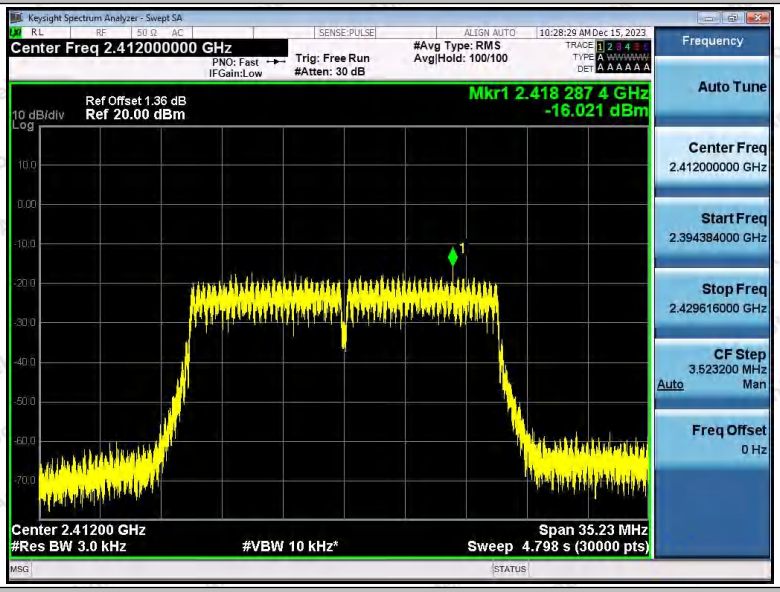
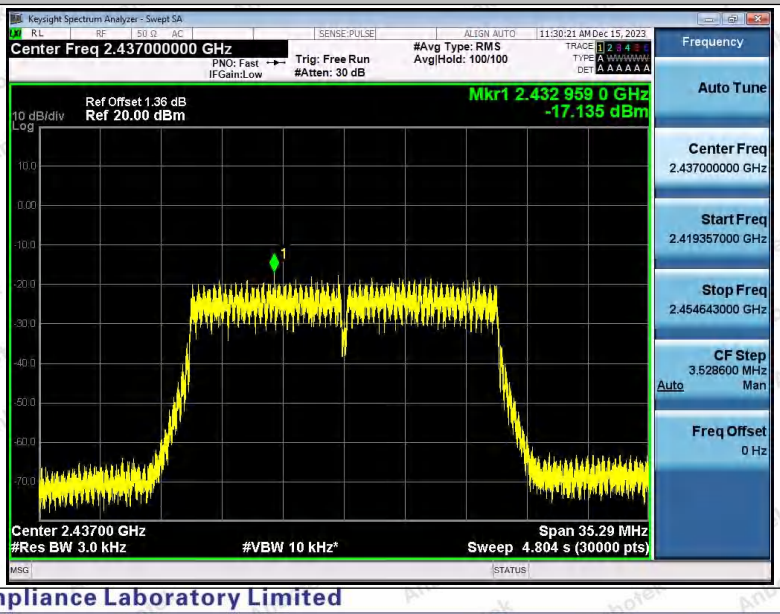


11N20SISO_Ant1_2437



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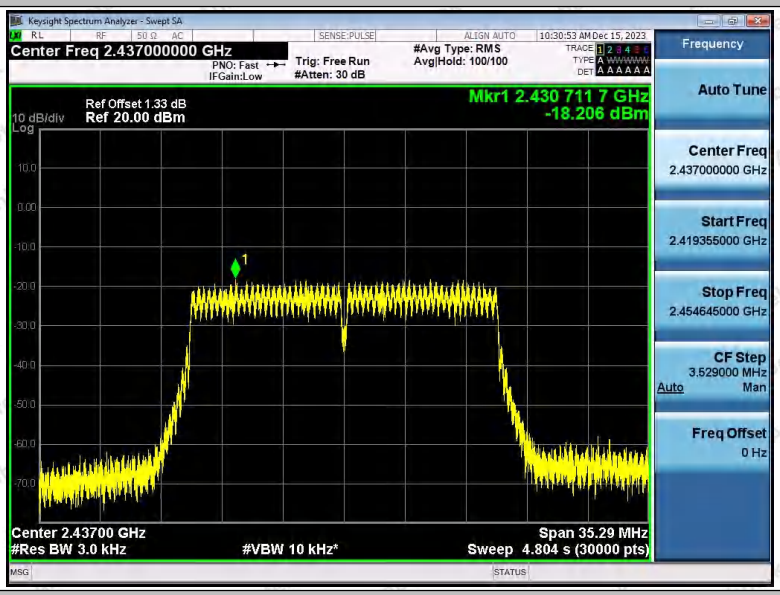

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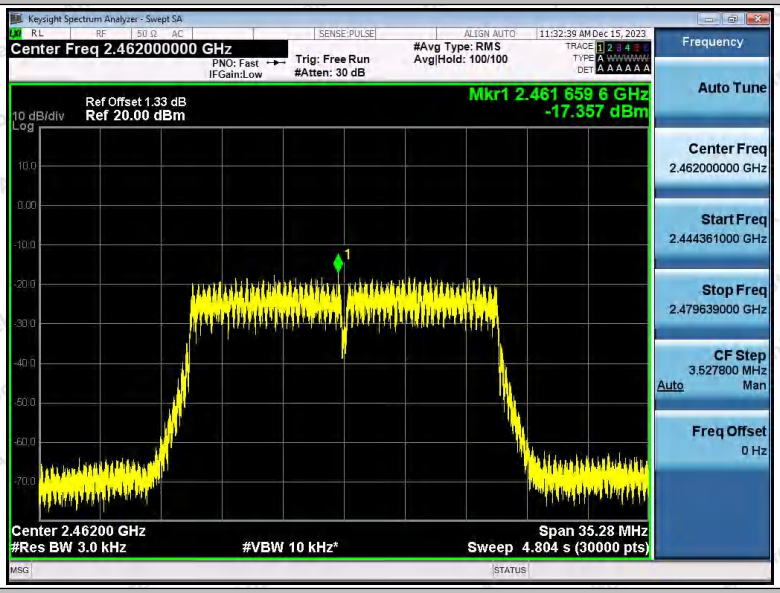

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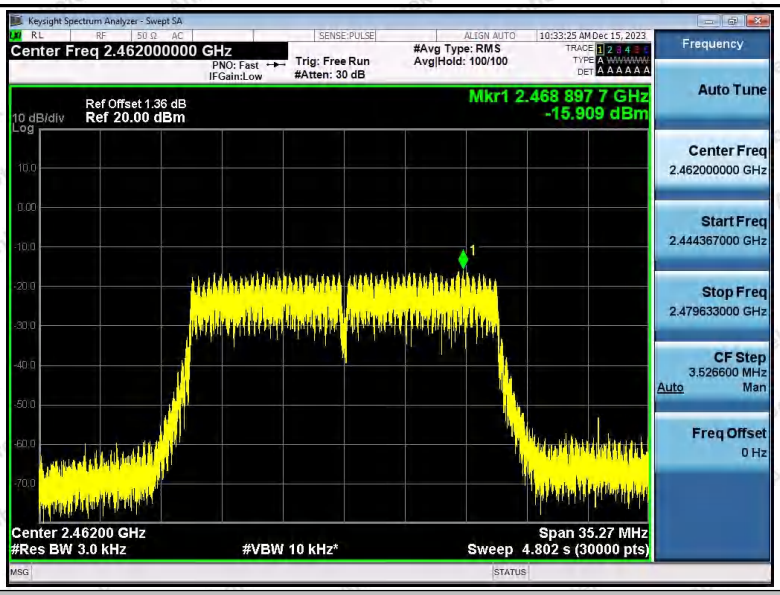
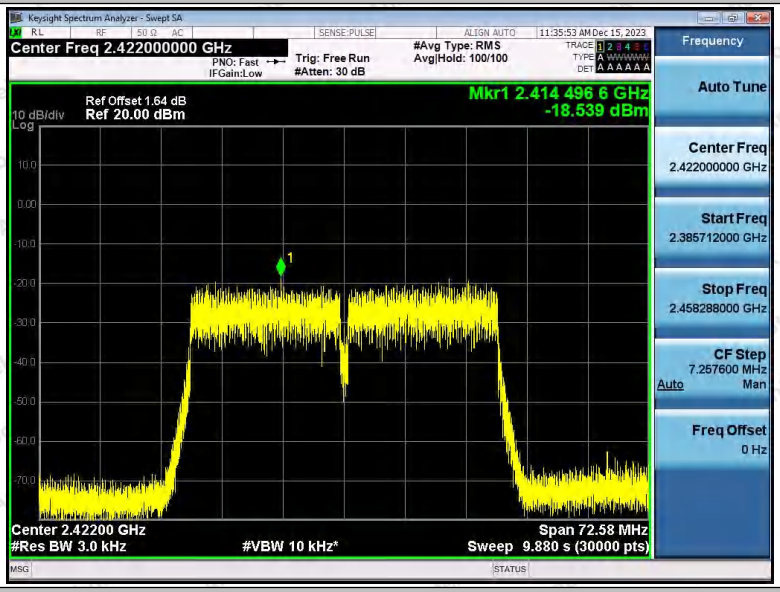


11N40SISO_Ant1_2422



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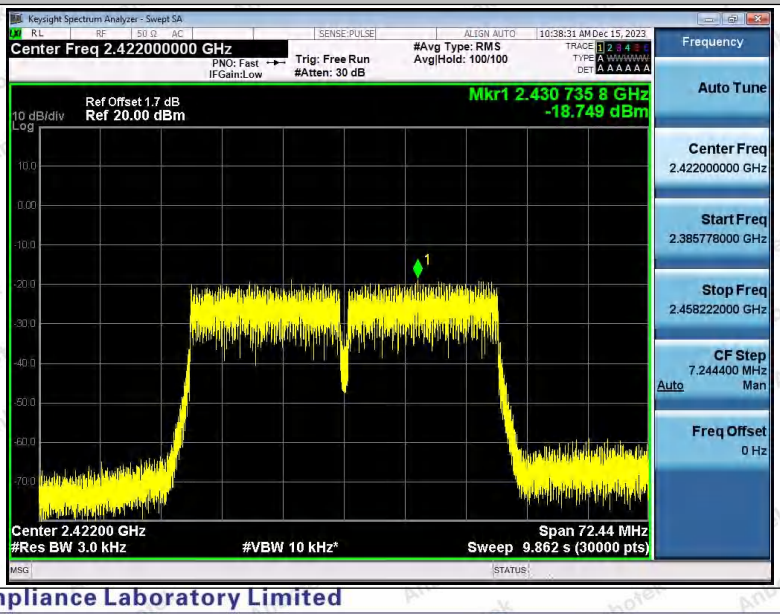

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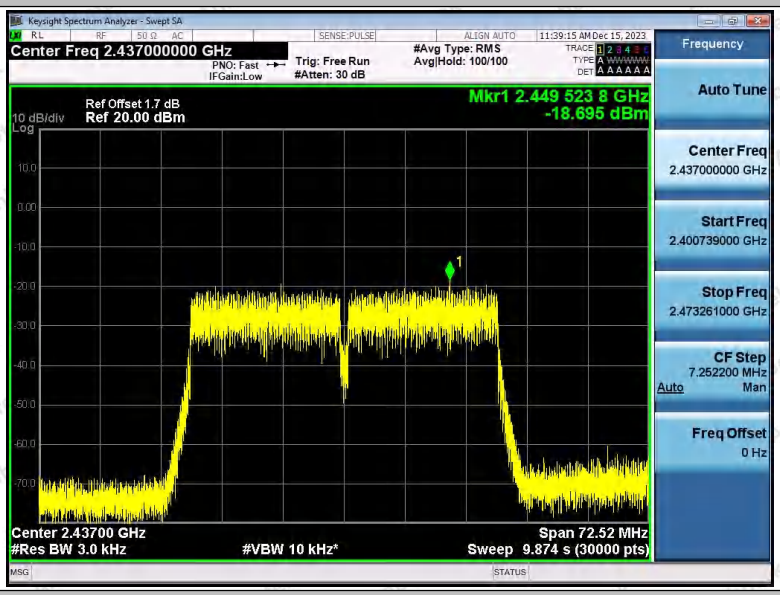

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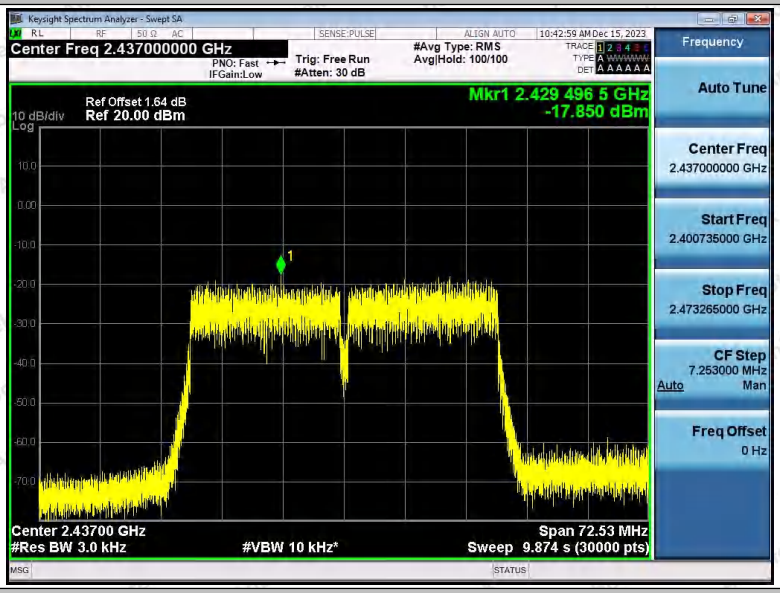
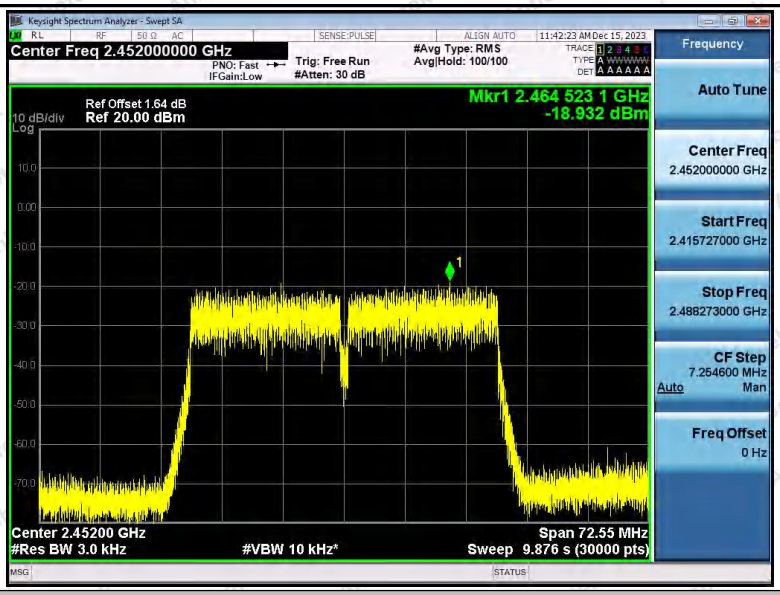
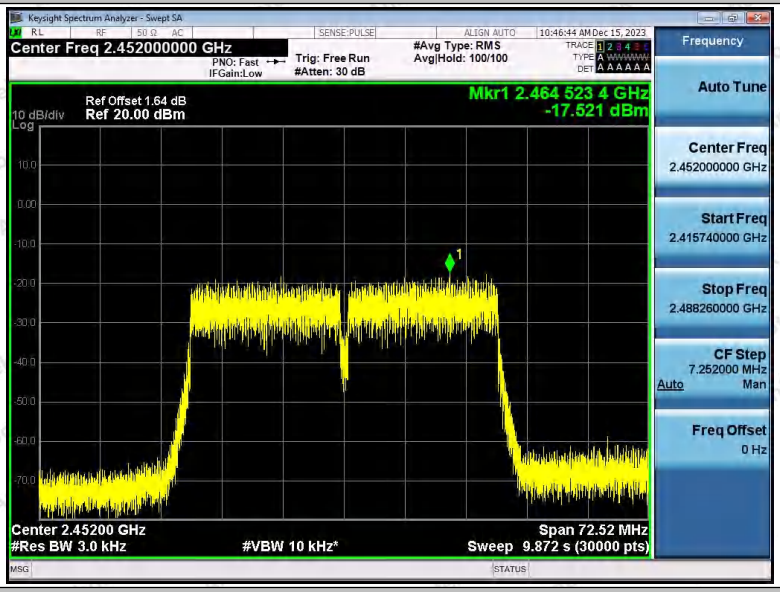


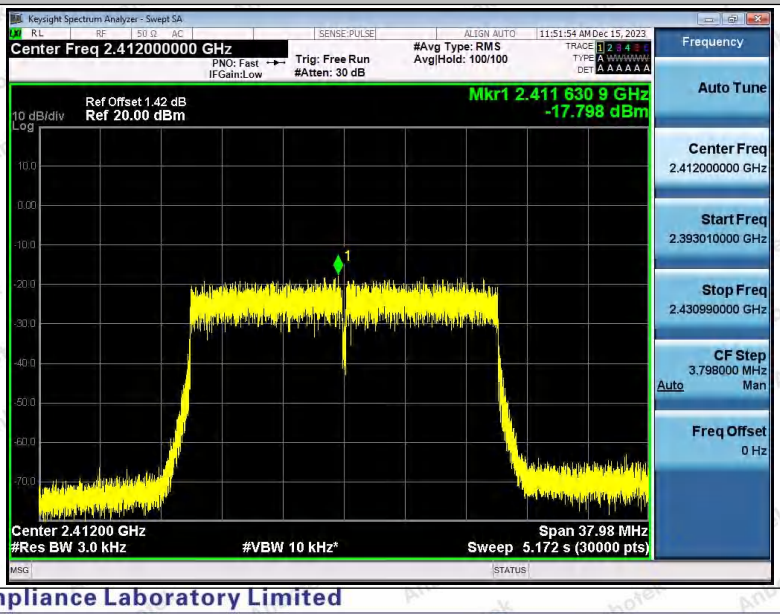
11N40SISO_Ant1_2452



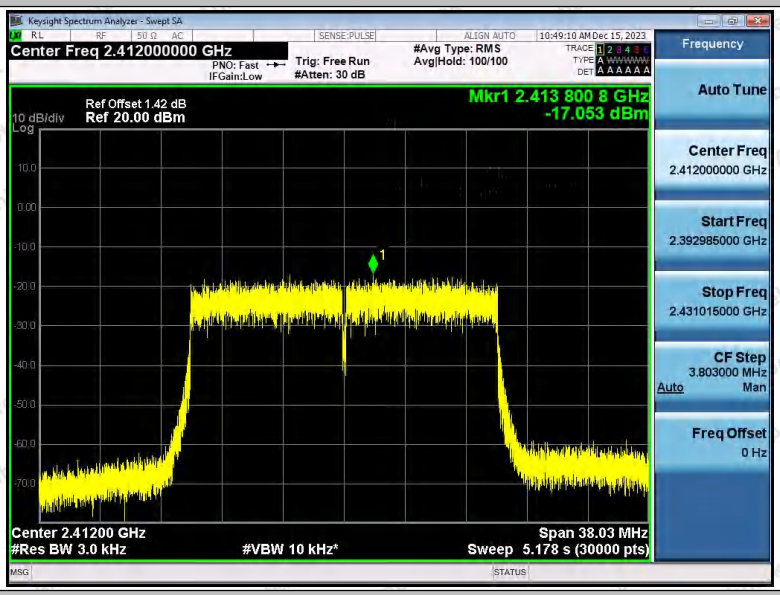
11N40SISO_Ant2_2452



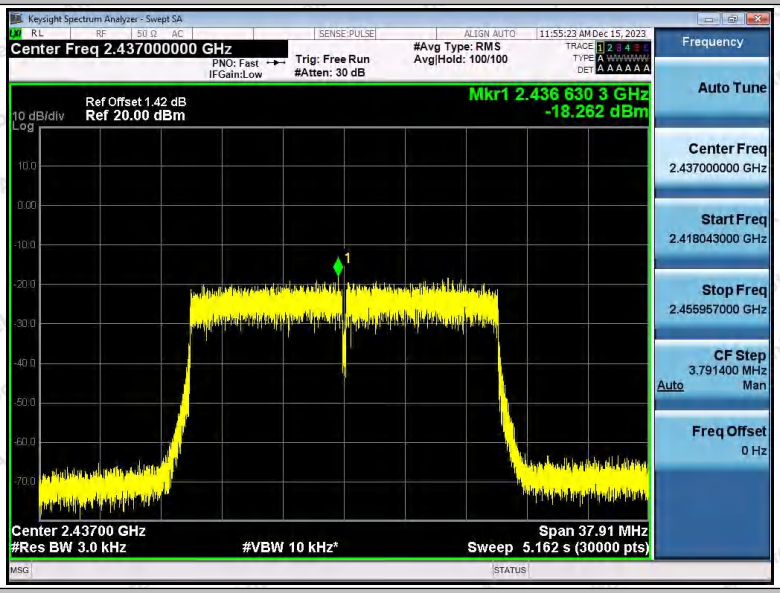
11AX20SISO_Ant1_2412



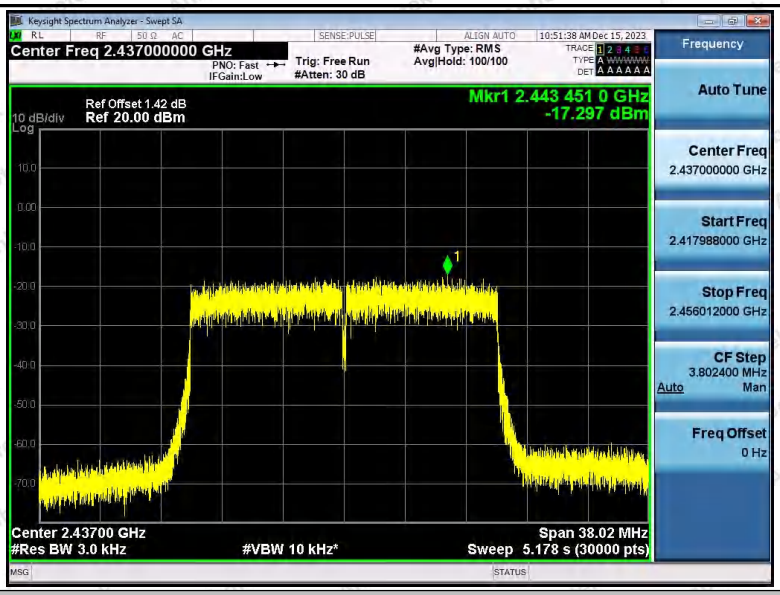
11AX20SISO_Ant2_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant2_2437



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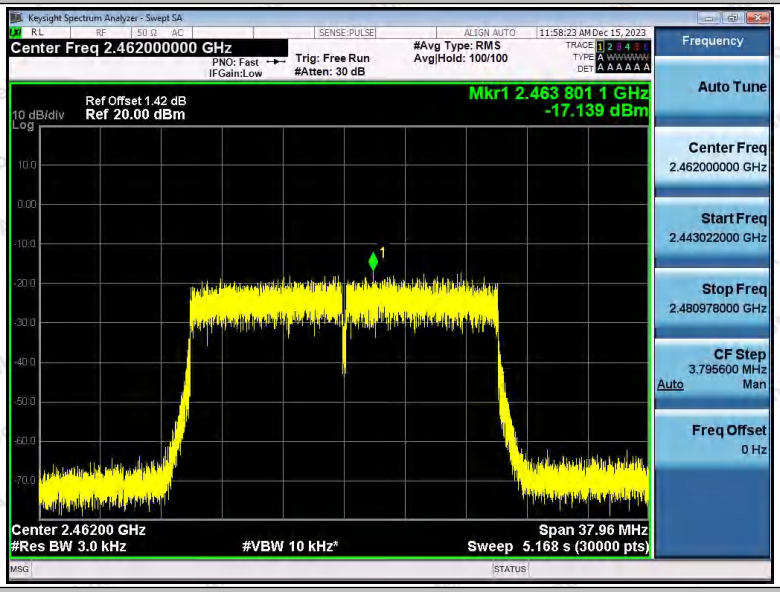

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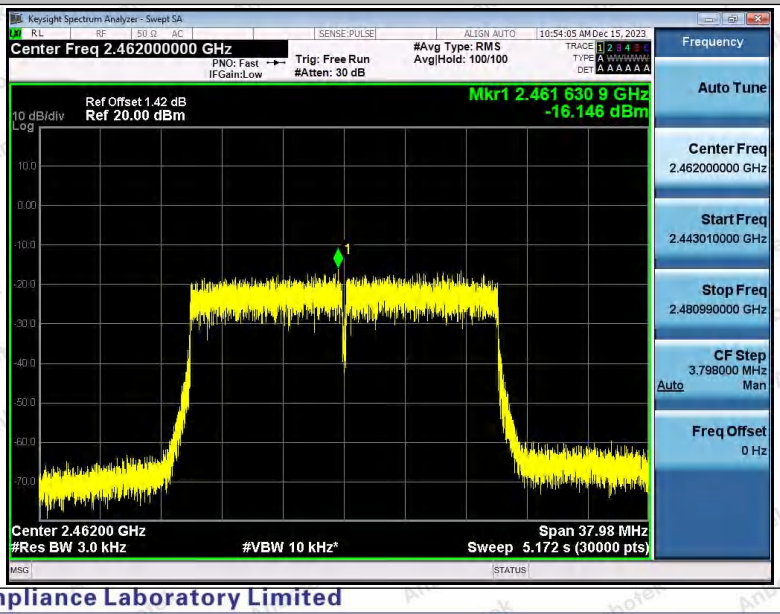
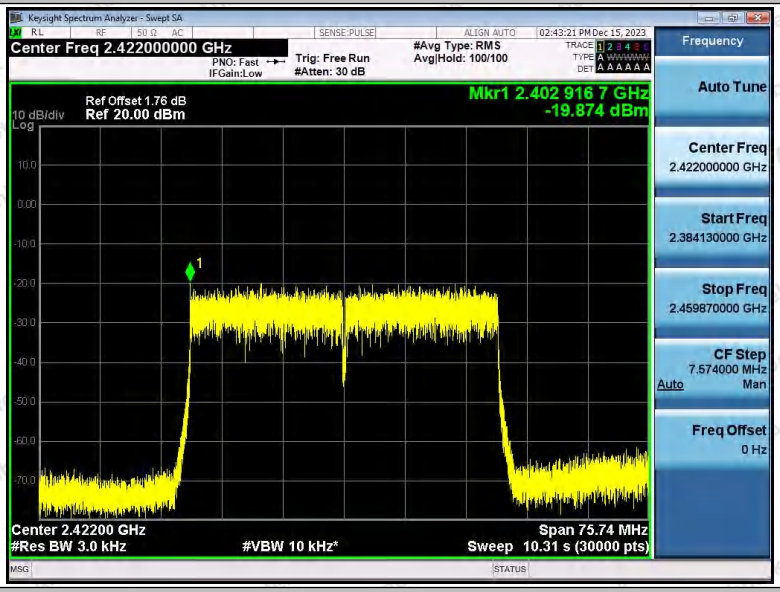
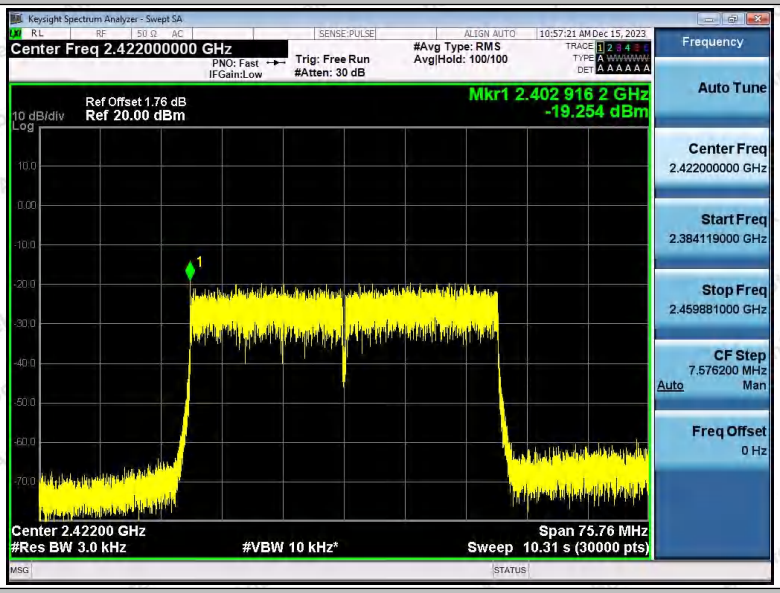


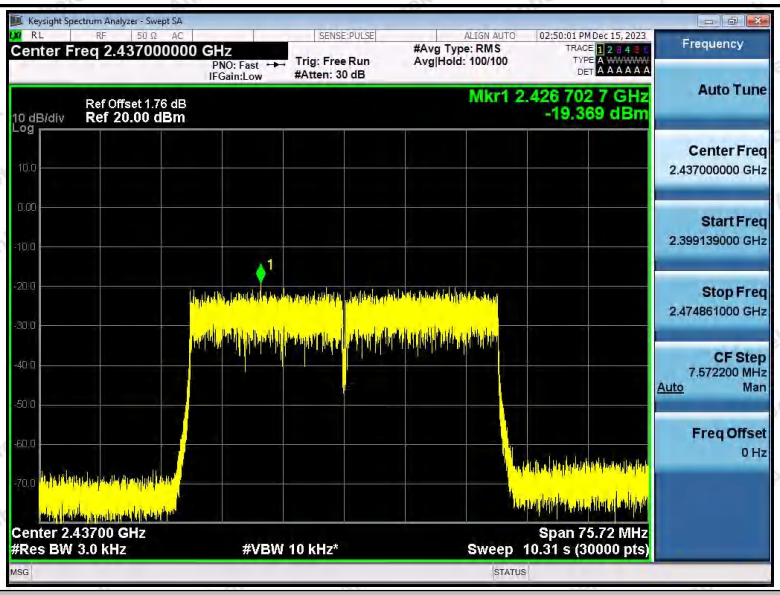
11AX40SISO_Ant1_2422



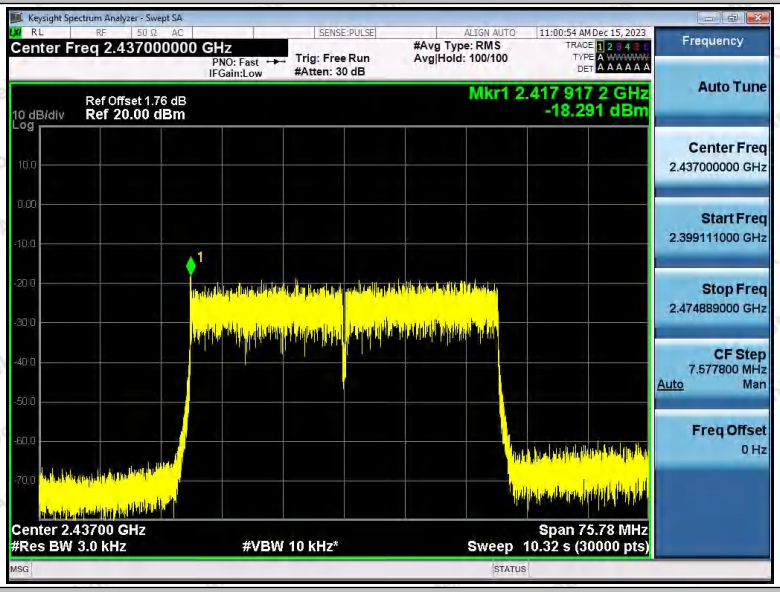
11AX40SISO_Ant2_2422



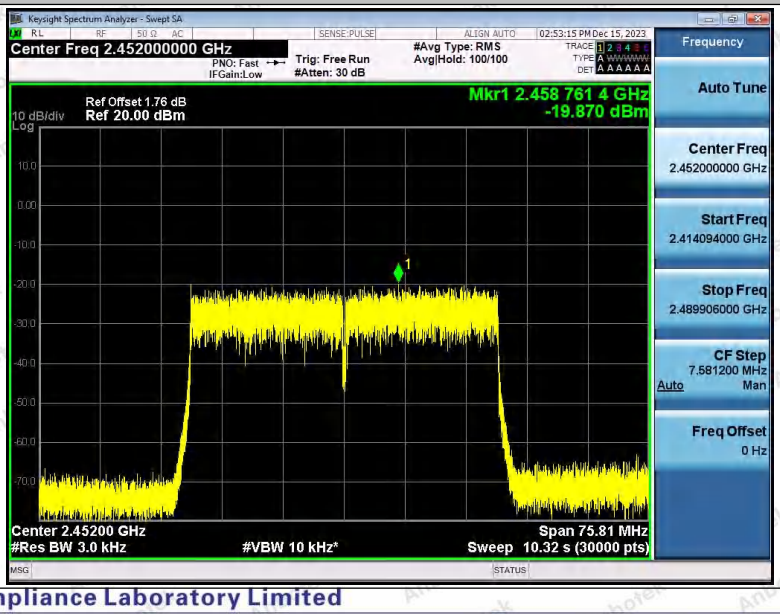
11AX40SISO_Ant1_2437



11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



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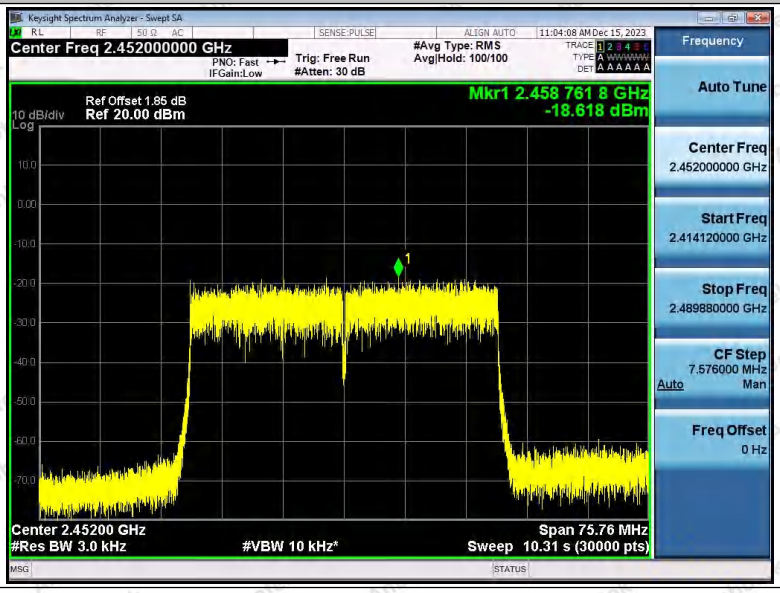


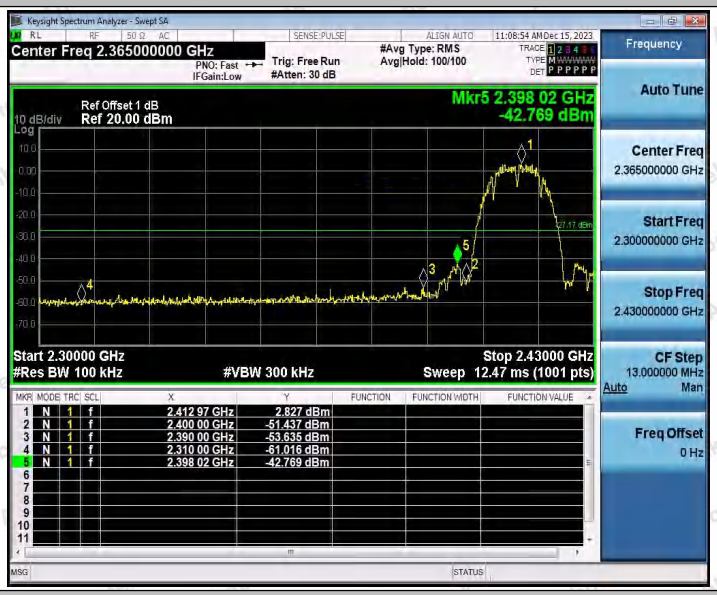
Appendix E: Band edge measurements

Test Result

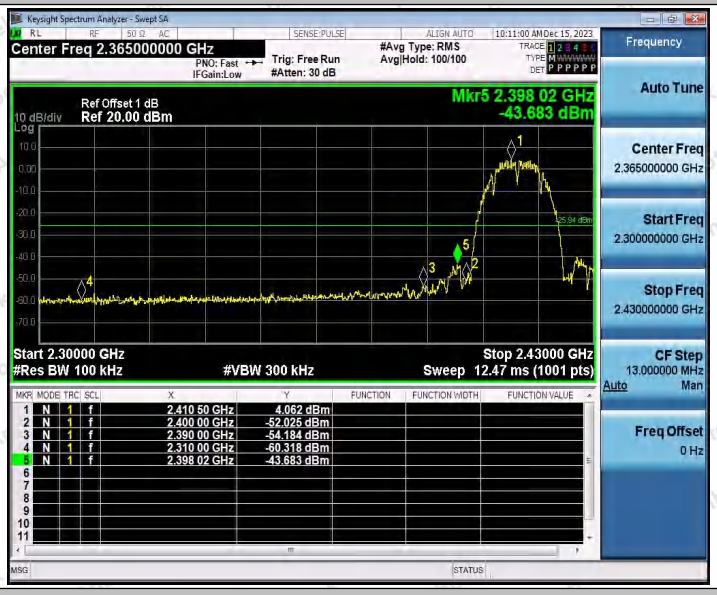
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.83	-42.77	≤-27.17	PASS
	Ant2	Low	2412	4.06	-43.68	≤-25.94	PASS
	Ant1	High	2462	3.75	-51.82	≤-26.25	PASS
	Ant2	High	2462	4.66	-50.03	≤-25.34	PASS
11G	Ant1	Low	2412	1.85	-43.72	≤-28.15	PASS
	Ant2	Low	2412	3.02	-43.27	≤-26.98	PASS
	Ant1	High	2462	1.64	-47.61	≤-28.36	PASS
	Ant2	High	2462	3.60	-47.47	≤-26.4	PASS
11N20SISO	Ant1	Low	2412	2.27	-44.48	≤-27.73	PASS
	Ant2	Low	2412	2.63	-41.74	≤-27.38	PASS
	Ant1	High	2462	1.94	-45.89	≤-28.06	PASS
	Ant2	High	2462	3.84	-44.21	≤-26.16	PASS
11N40SISO	Ant1	Low	2422	-0.73	-43.02	≤-30.73	PASS
	Ant2	Low	2422	-0.07	-40.59	≤-30.07	PASS
	Ant1	High	2452	-0.07	-38.70	≤-30.07	PASS
	Ant2	High	2452	1.41	-39.33	≤-28.59	PASS
11AX20SISO	Ant1	Low	2412	1.77	-45.60	≤-28.23	PASS
	Ant2	Low	2412	2.73	-41.55	≤-27.27	PASS
	Ant1	High	2462	1.32	-45.30	≤-28.69	PASS
	Ant2	High	2462	3.28	-43.20	≤-26.72	PASS
11AX40SISO	Ant1	Low	2422	-0.65	-44.80	≤-30.65	PASS
	Ant2	Low	2422	-0.01	-41.71	≤-30.01	PASS
	Ant1	High	2452	-0.26	-41.45	≤-30.26	PASS
	Ant2	High	2452	0.79	-38.13	≤-29.21	PASS

Test Graphs

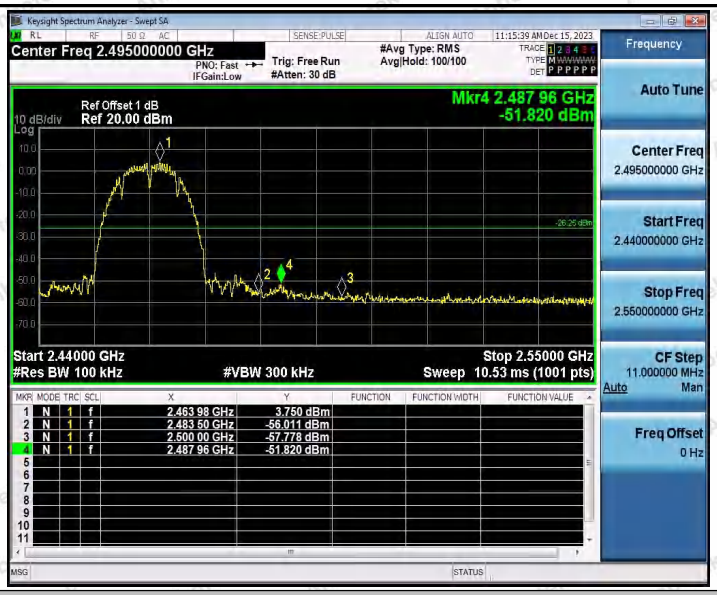
11B_Ant1_Low_2412



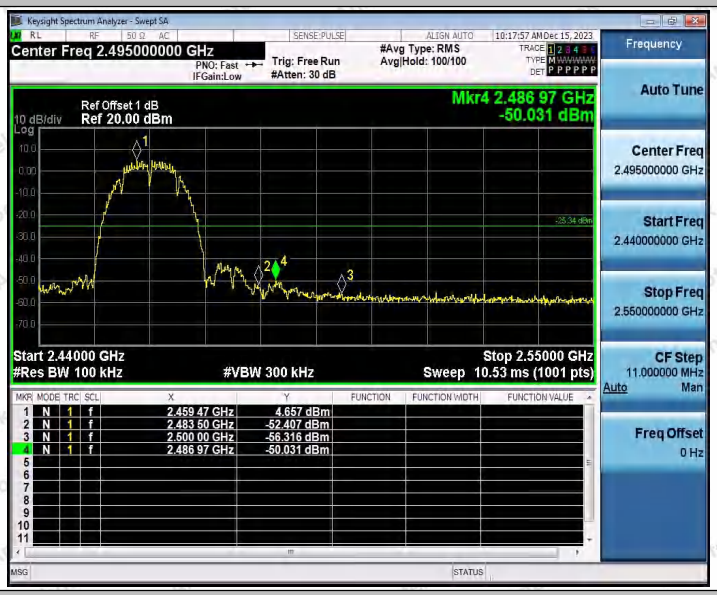
11B_Ant2_Low_2412



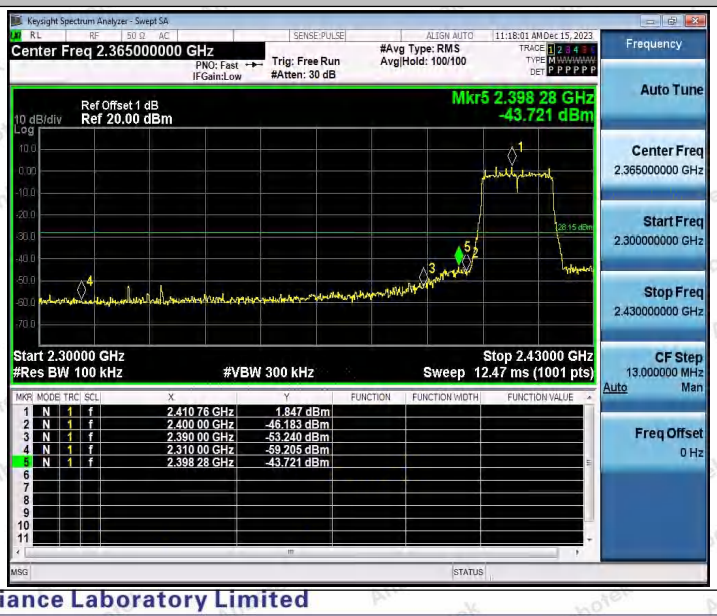
11B_Ant1_High_2462



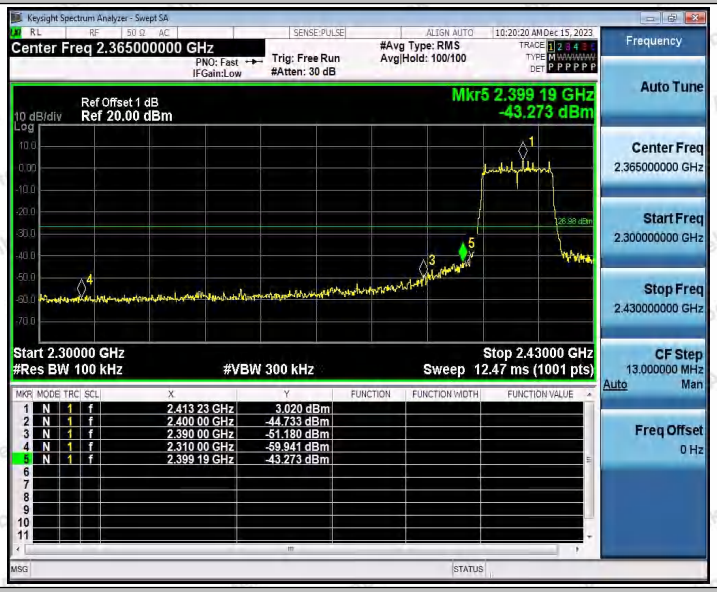
11B_Ant2_High_2462



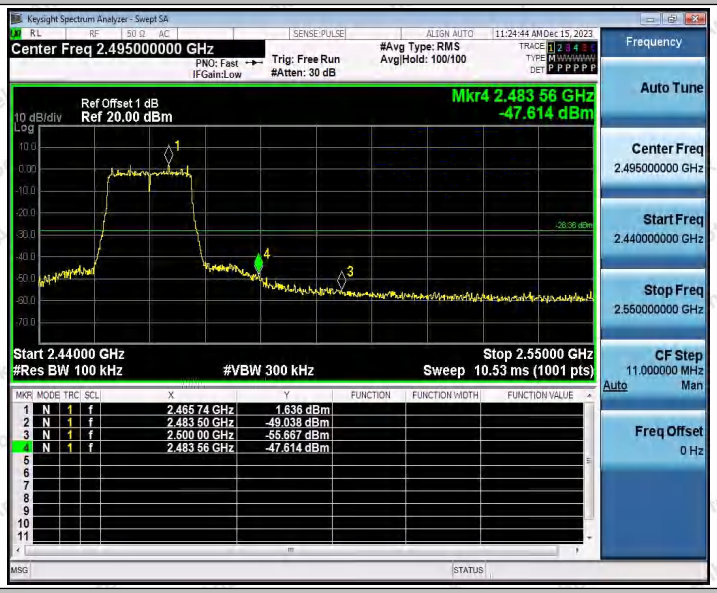
11G_Ant1_Low_2412



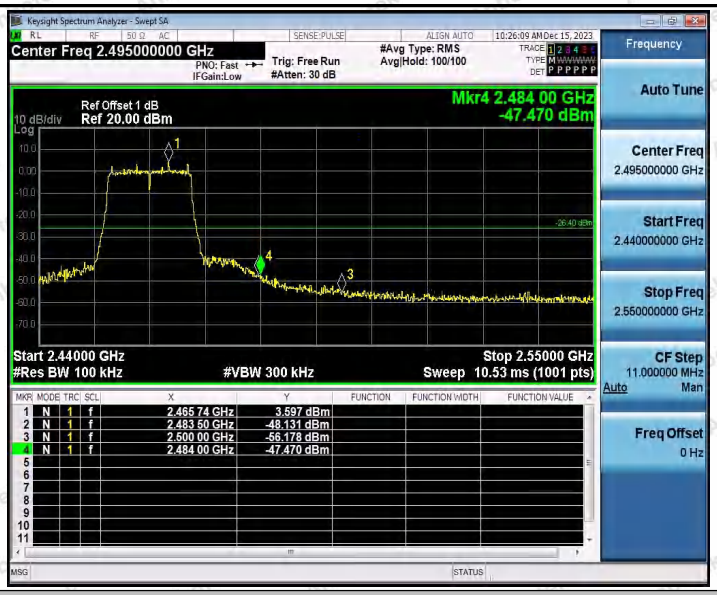
11G_Ant2_Low_2412



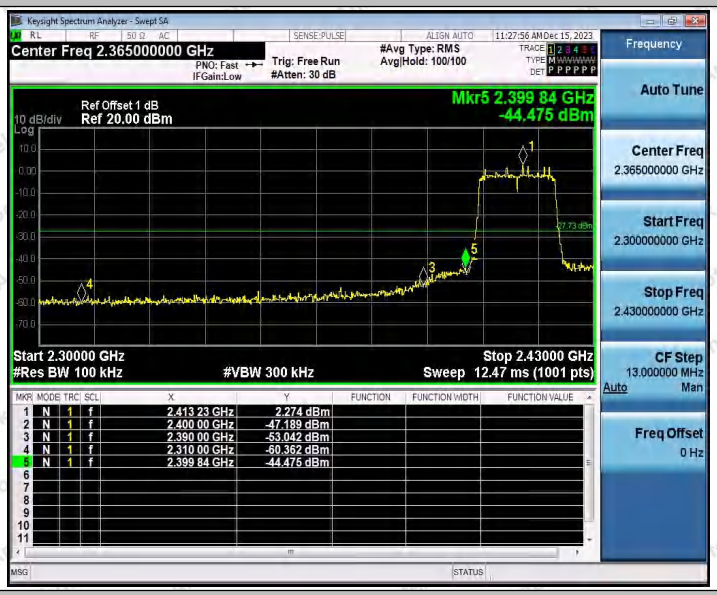
11G_Ant1_High_2462



11G_Ant2_High_2462



11N20SISO_Ant1_Low_2412



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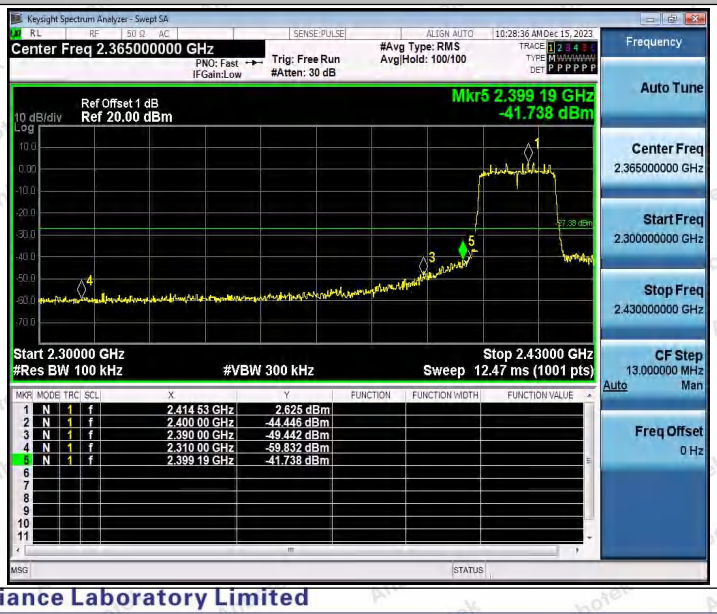
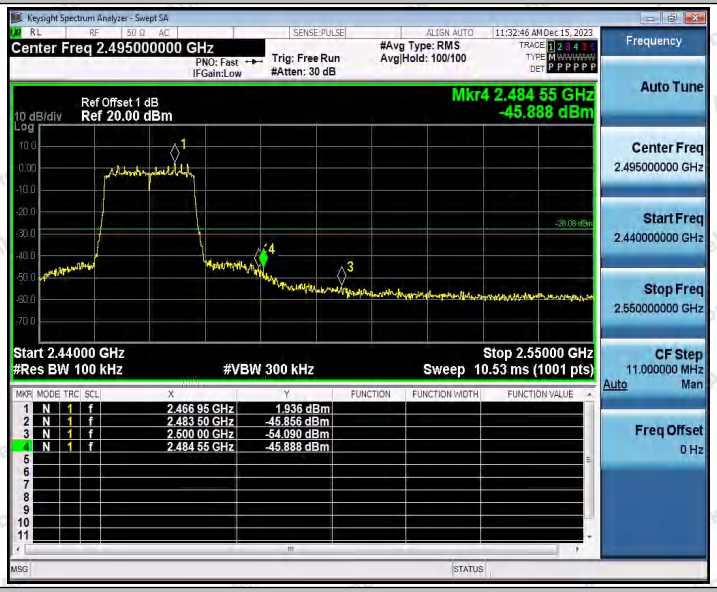


11N20SISO_Ant1_High_2462



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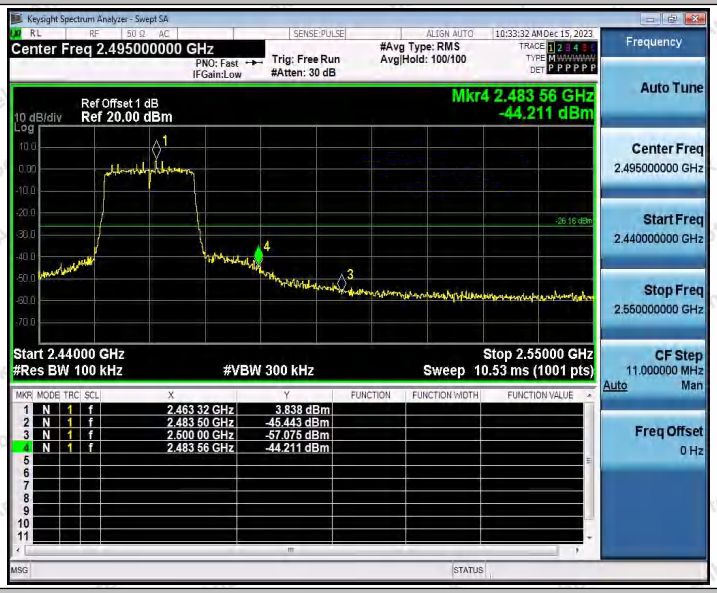

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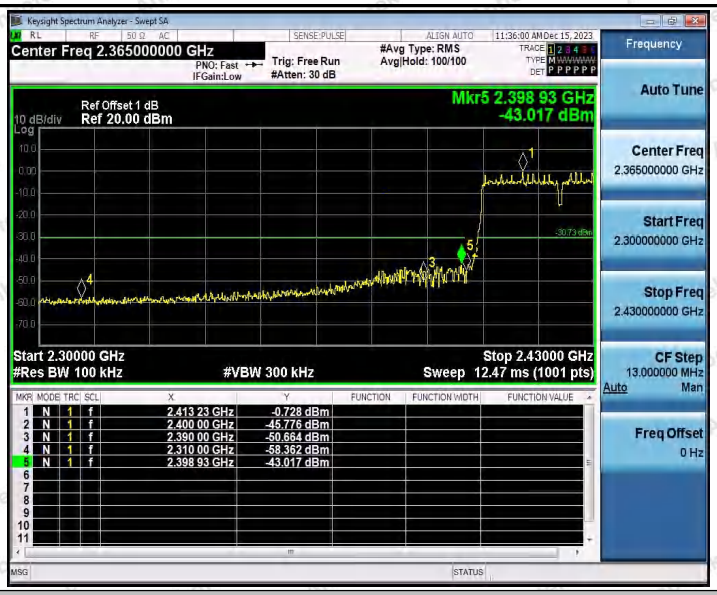

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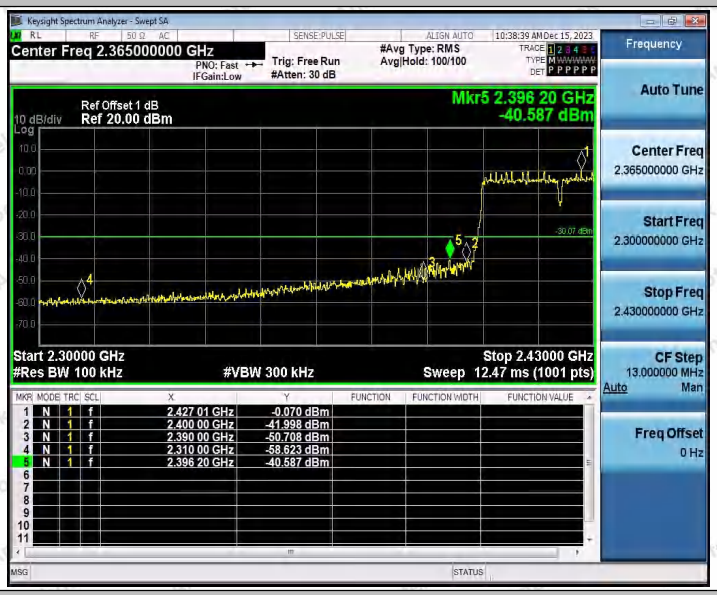
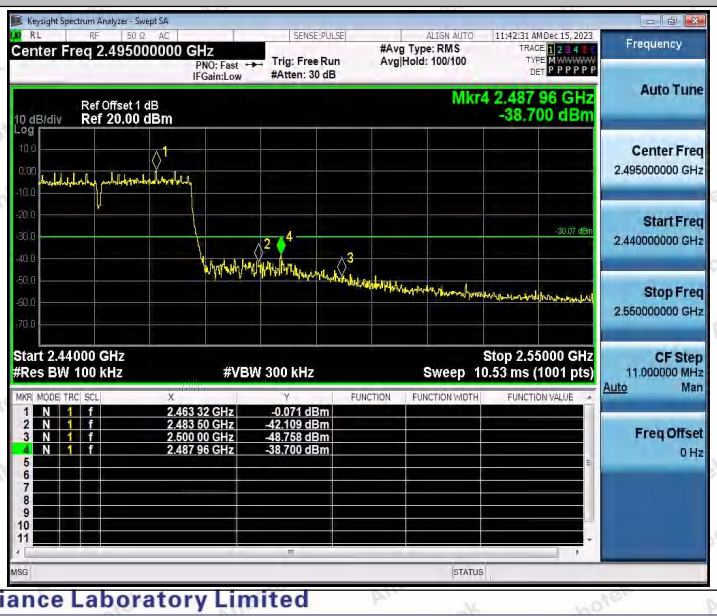


11N40SISO_Ant1_High_2452



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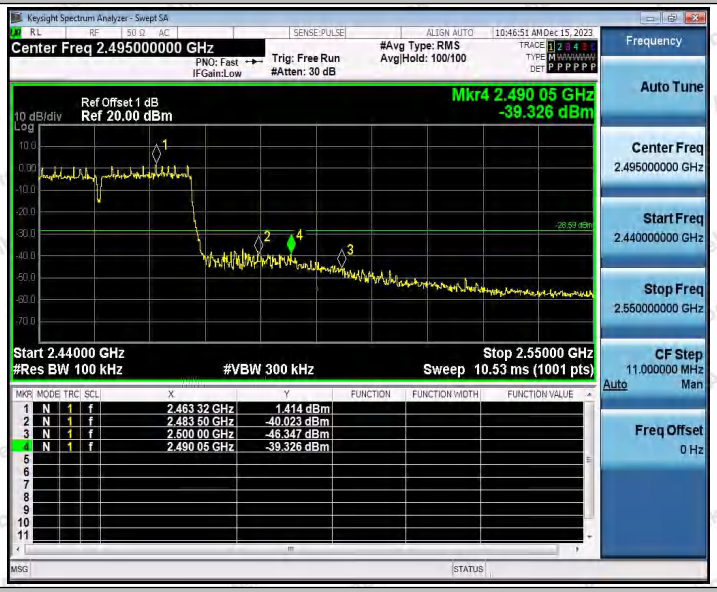

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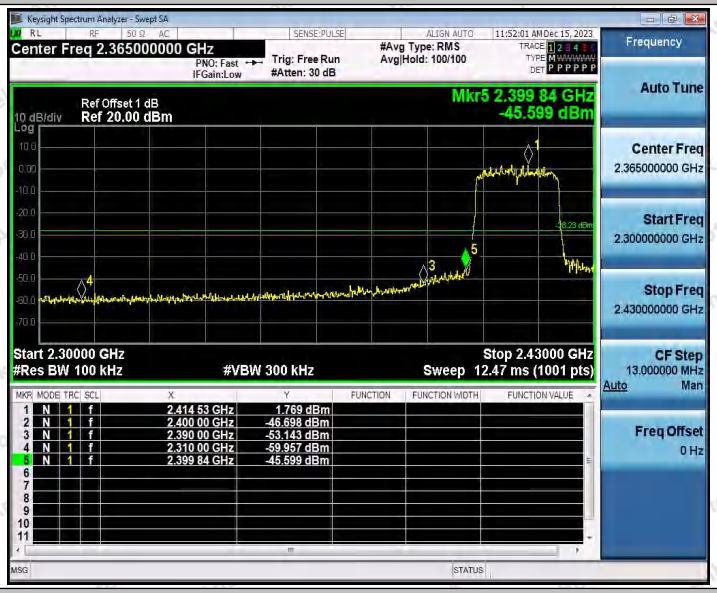

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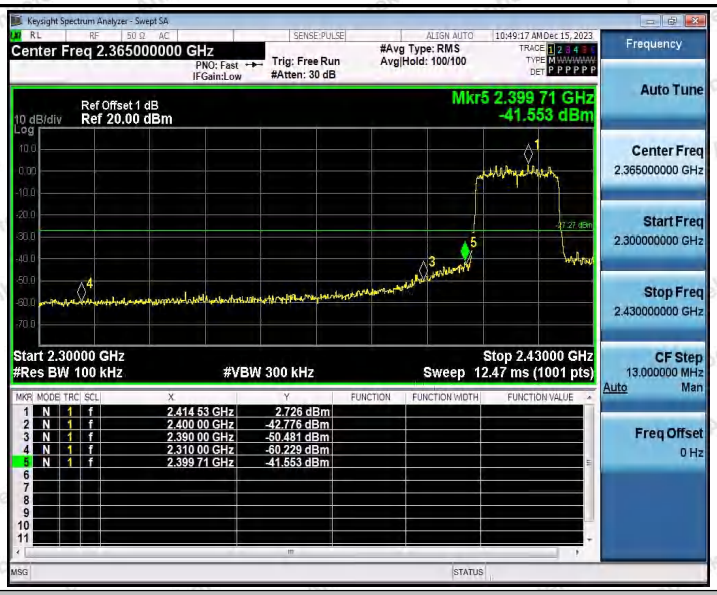
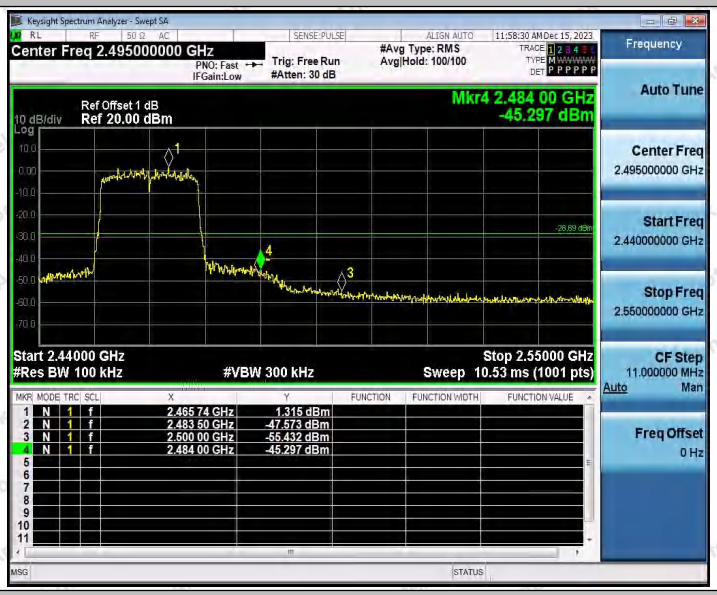


11AX20SISO_Ant1_High_2462



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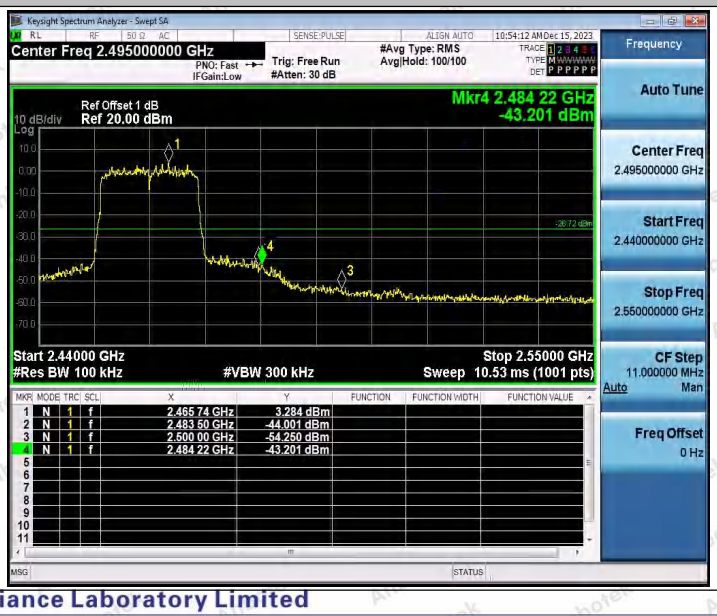
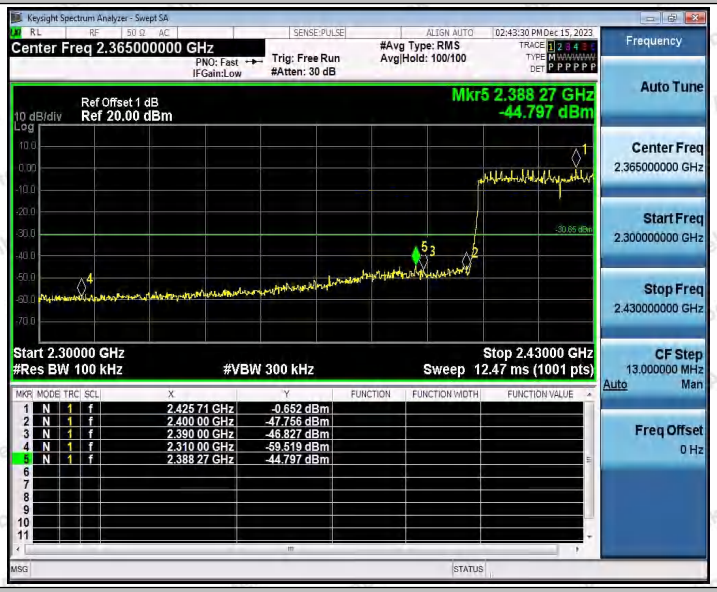
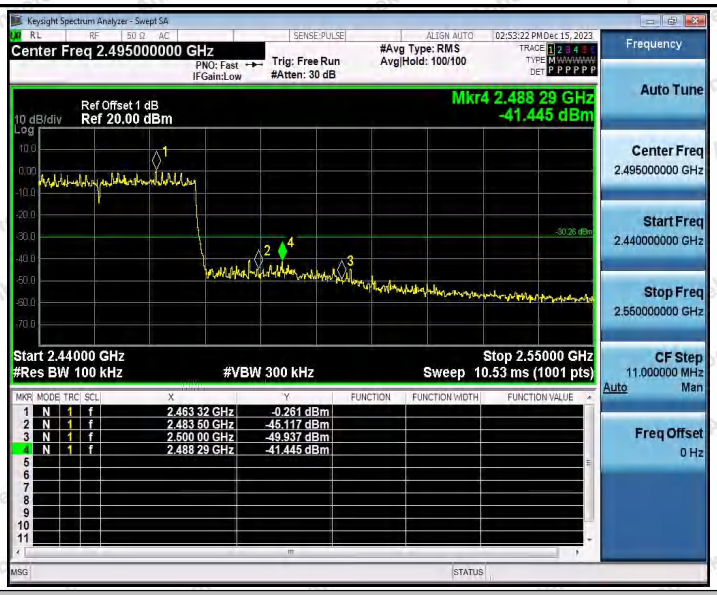


11AX40SISO_Ant1_Low_2422

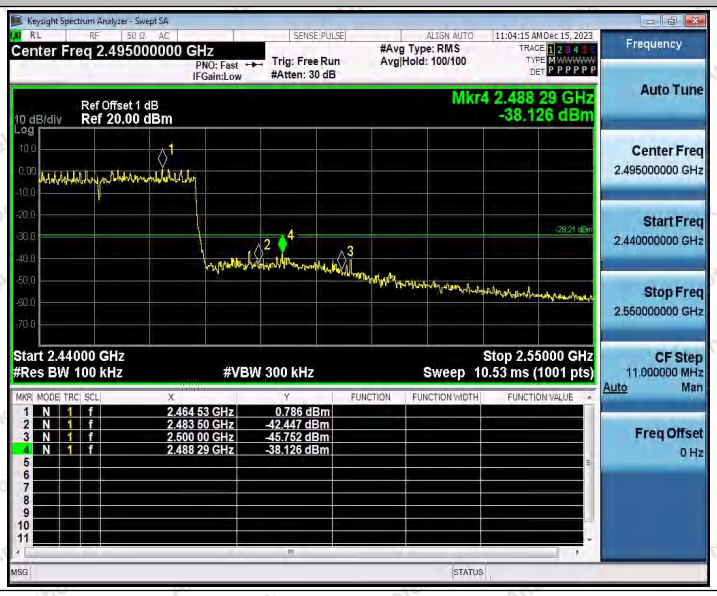


11AX40SISO_Ant2_Low_2422

11AX40SISO_Ant1_High_2452



11AX40SISO_Ant2_High_2452



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-68.66	≤-27.16	PASS
			1000~26500	2.84	-53.83	≤-27.16	PASS
	Ant2	2412	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-68.78	≤-25.83	PASS
			1000~26500	4.17	-50.21	≤-25.83	PASS
	Ant1	2437	Reference	1.33	1.33	---	PASS
			30~1000	1.33	-68.5	≤-28.67	PASS
			1000~26500	1.33	-53.23	≤-28.67	PASS
	Ant2	2437	Reference	4.02	4.02	---	PASS
			30~1000	4.02	-68.41	≤-25.98	PASS
			1000~26500	4.02	-46.73	≤-25.98	PASS
	Ant1	2462	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-69.38	≤-27.67	PASS
			1000~26500	2.33	-53.62	≤-27.67	PASS
	Ant2	2462	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-69.14	≤-26.53	PASS
			1000~26500	3.47	-44.57	≤-26.53	PASS
11G	Ant1	2412	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-68.98	≤-30.65	PASS
			1000~26500	-0.65	-53.67	≤-30.65	PASS
	Ant2	2412	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-68.08	≤-28.82	PASS
			1000~26500	1.18	-52.83	≤-28.82	PASS
	Ant1	2437	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-69.01	≤-28.56	PASS
			1000~26500	1.44	-53.85	≤-28.56	PASS
	Ant2	2437	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-68.96	≤-29.66	PASS
			1000~26500	0.34	-52.09	≤-29.66	PASS
	Ant1	2462	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-68.53	≤-30.7	PASS
			1000~26500	-0.70	-53.79	≤-30.7	PASS
	Ant2	2462	Reference	3.55	3.55	---	PASS
			30~1000	3.55	-68.82	≤-26.45	PASS
			1000~26500	3.55	-49.91	≤-26.45	PASS
11N20SISO	Ant1	2412	Reference	0.27	0.27	---	PASS

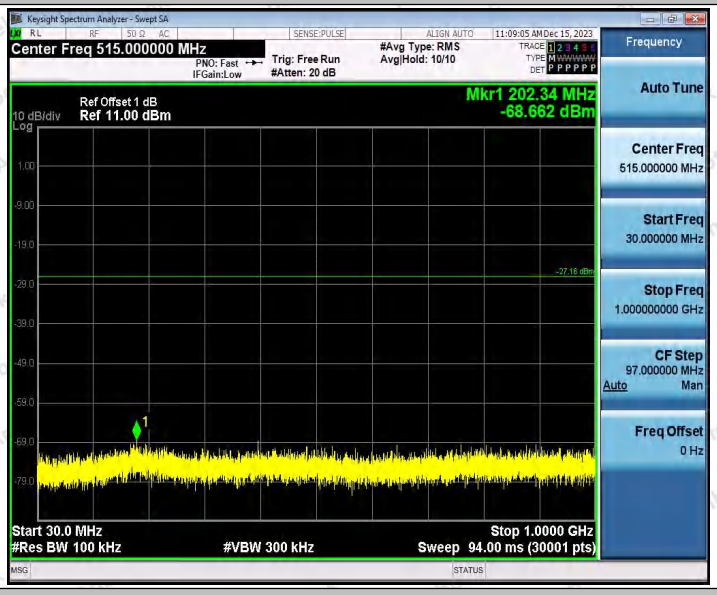
			30~1000	0.27	-68.83	≤-29.73	PASS
			1000~26500	0.27	-53.85	≤-29.73	PASS
	Ant2	2412	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-69.07	≤-27.23	PASS
			1000~26500	2.77	-53.07	≤-27.23	PASS
	Ant1	2437	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-68.96	≤-30.12	PASS
			1000~26500	-0.12	-53.60	≤-30.12	PASS
	Ant2	2437	Reference	2.79	2.79	---	PASS
			30~1000	2.79	-69.26	≤-27.21	PASS
			1000~26500	2.79	-51.61	≤-27.21	PASS
	Ant1	2462	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-69.13	≤-31.33	PASS
			1000~26500	-1.33	-53.35	≤-31.33	PASS
	Ant2	2462	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-69.38	≤-27.99	PASS
			1000~26500	2.01	-51.23	≤-27.99	PASS
11N40SISO	Ant1	2422	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-69.02	≤-30.25	PASS
			1000~26500	-0.25	-52.58	≤-30.25	PASS
	Ant2	2422	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-68.34	≤-29.88	PASS
			1000~26500	0.12	-53.07	≤-29.88	PASS
	Ant1	2437	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-68.69	≤-30.43	PASS
			1000~26500	-0.43	-54.21	≤-30.43	PASS
	Ant2	2437	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-68.58	≤-29.75	PASS
			1000~26500	0.25	-52.33	≤-29.75	PASS
	Ant1	2452	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-68.81	≤-30.37	PASS
			1000~26500	-0.37	-53.63	≤-30.37	PASS
	Ant2	2452	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-68.79	≤-30.07	PASS
			1000~26500	-0.07	-53.20	≤-30.07	PASS
11AX20SISO	Ant1	2412	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-68.93	≤-30.72	PASS
			1000~26500	-0.72	-54.24	≤-30.72	PASS
	Ant2	2412	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-69.65	≤-29.91	PASS
			1000~26500	0.09	-53.85	≤-29.91	PASS
	Ant1	2437	Reference	0.92	0.92	---	PASS

			30~1000	0.92	-68.97	≤-29.08	PASS
			1000~26500	0.92	-54.11	≤-29.08	PASS
	Ant2	2437	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-69.36	≤-26.77	PASS
			1000~26500	3.23	-52.60	≤-26.77	PASS
	Ant1	2462	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-68.91	≤-30.41	PASS
			1000~26500	-0.41	-53.84	≤-30.41	PASS
	Ant2	2462	Reference	1.31	1.31	---	PASS
			30~1000	1.31	-68.49	≤-28.69	PASS
			1000~26500	1.31	-49.39	≤-28.69	PASS
11AX40SISO	Ant1	2422	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-68.59	≤-31.06	PASS
			1000~26500	-1.06	-53.28	≤-31.06	PASS
	Ant2	2422	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-68.71	≤-29.86	PASS
			1000~26500	0.14	-53.18	≤-29.86	PASS
	Ant1	2437	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-69.08	≤-31.36	PASS
			1000~26500	-1.36	-53.12	≤-31.36	PASS
	Ant2	2437	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-68.42	≤-30.51	PASS
			1000~26500	-0.51	-50.48	≤-30.51	PASS
	Ant1	2452	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-68.09	≤-30.74	PASS
			1000~26500	-0.74	-54.21	≤-30.74	PASS
	Ant2	2452	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-68.76	≤-30.23	PASS
			1000~26500	-0.23	-49.08	≤-30.23	PASS

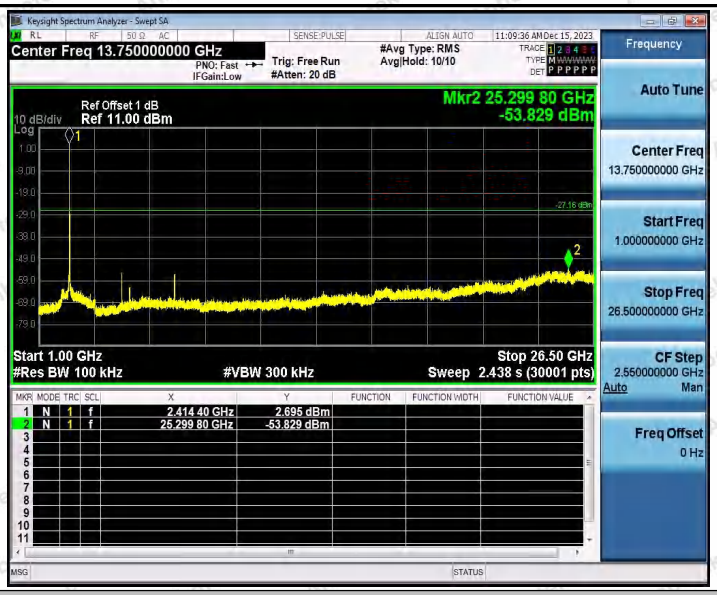
Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant2_2412_0~Reference

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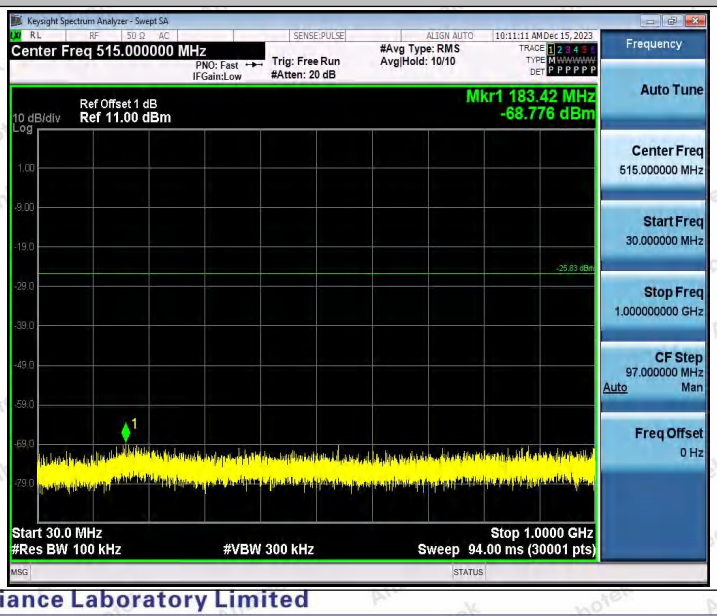
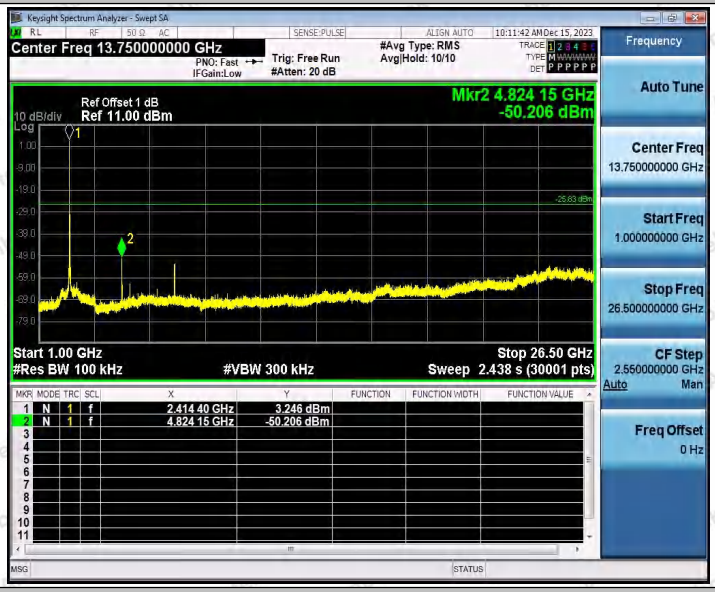
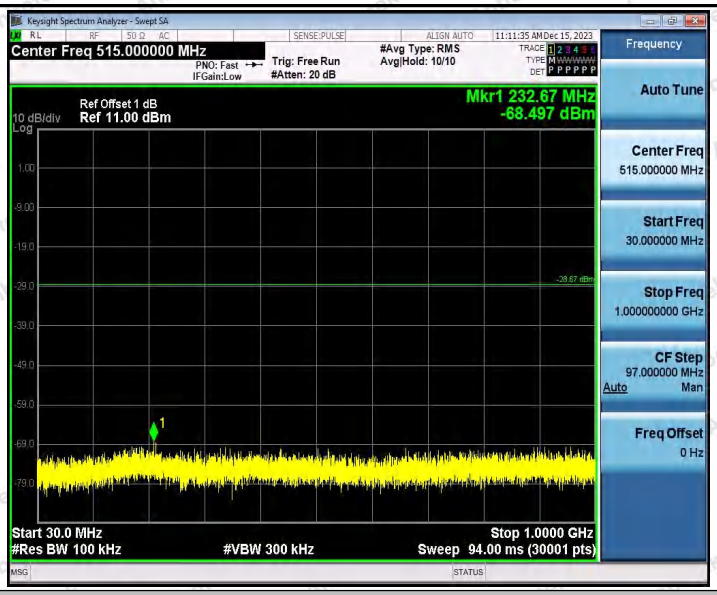


11B_Ant2_2412_1000~26500

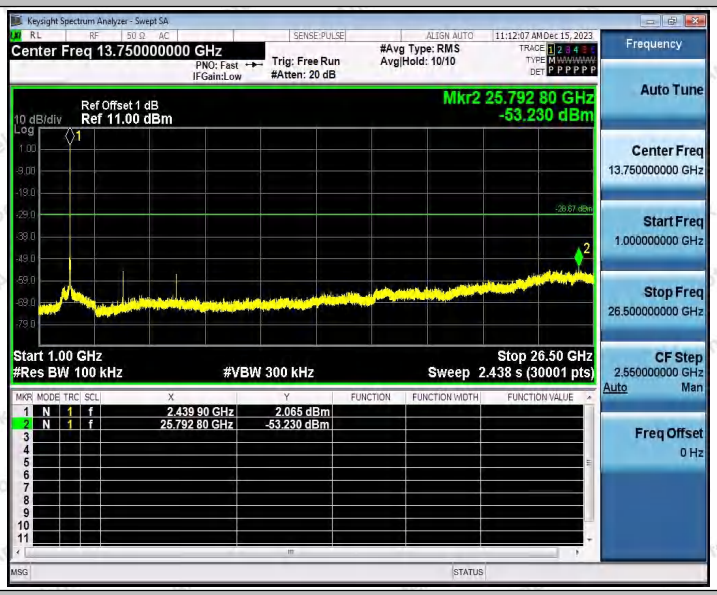


11B_Ant1_2437_0~Reference

11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



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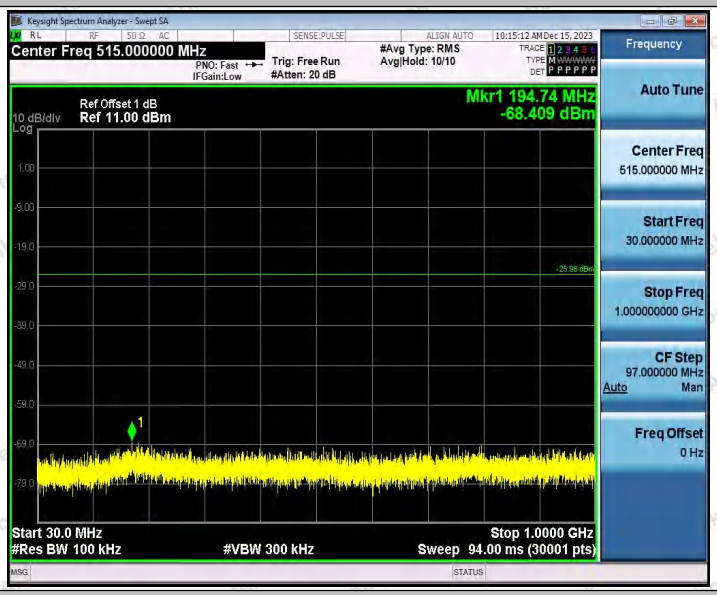

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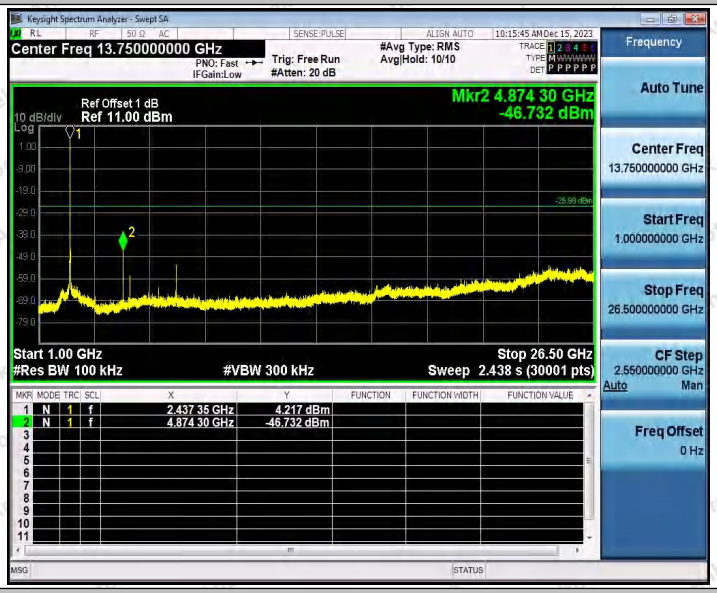

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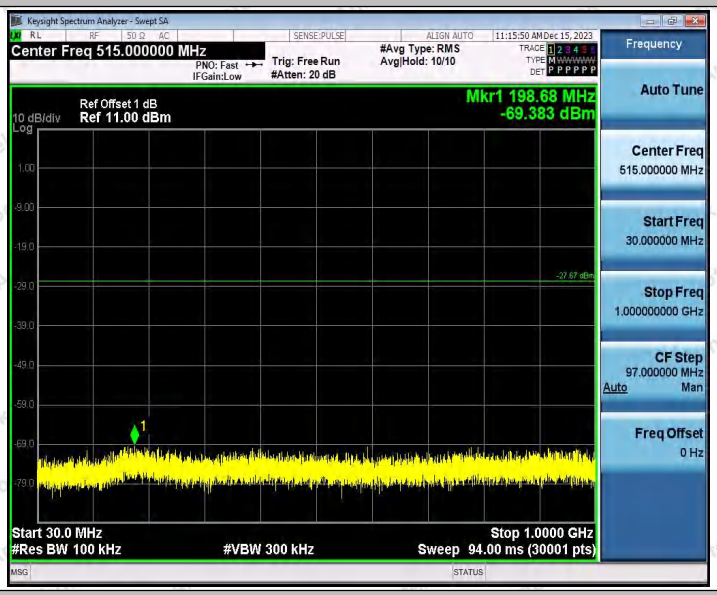

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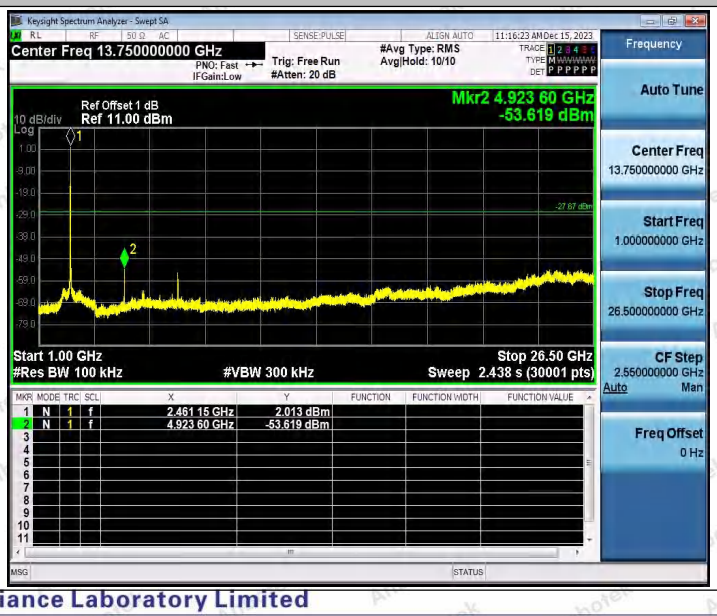

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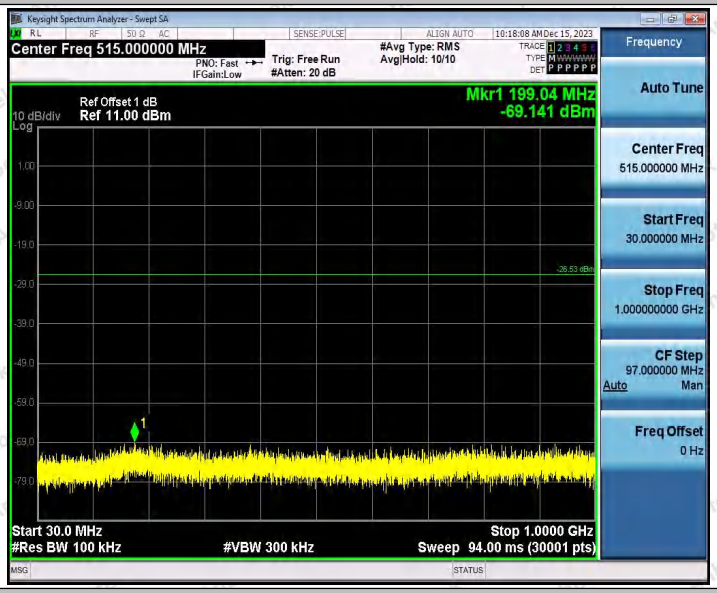
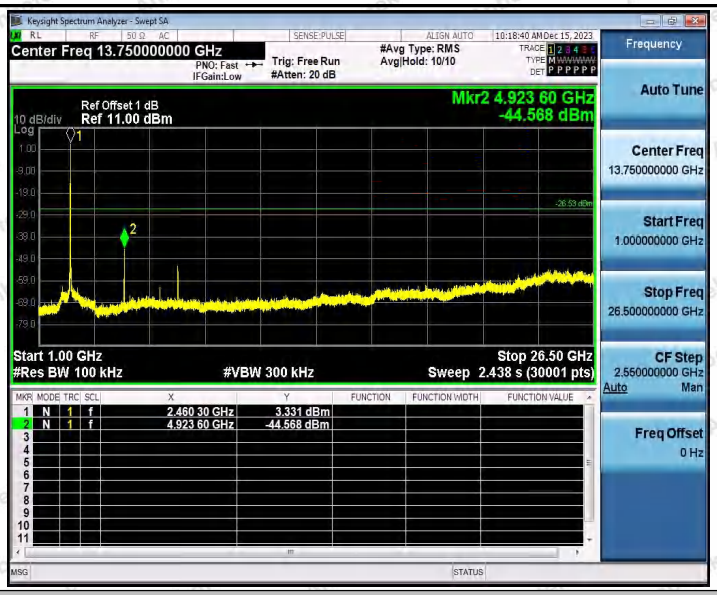
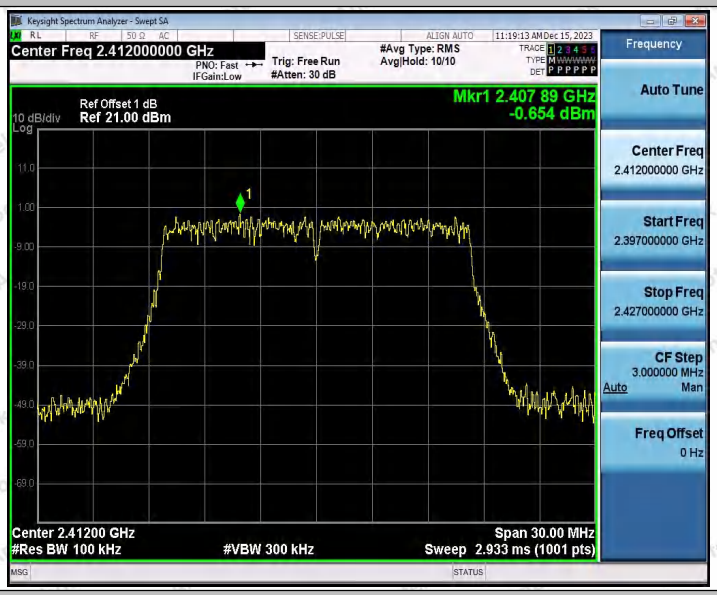


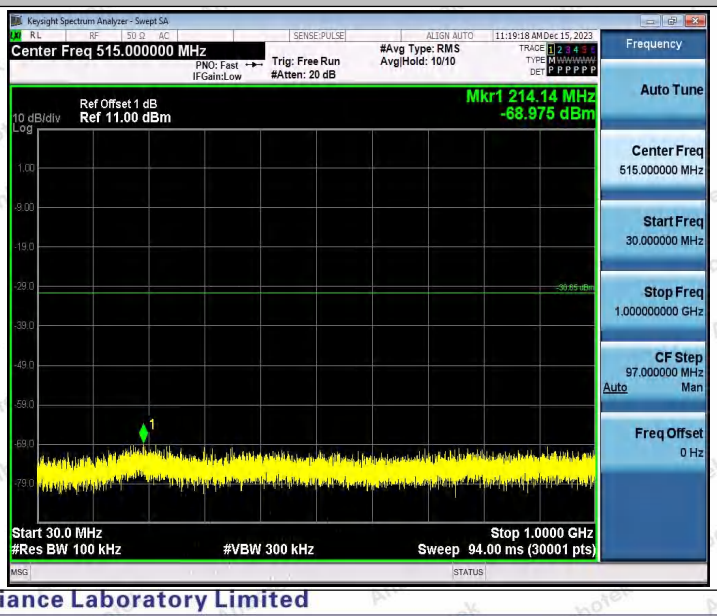
11B_Ant2_2462_1000~26500



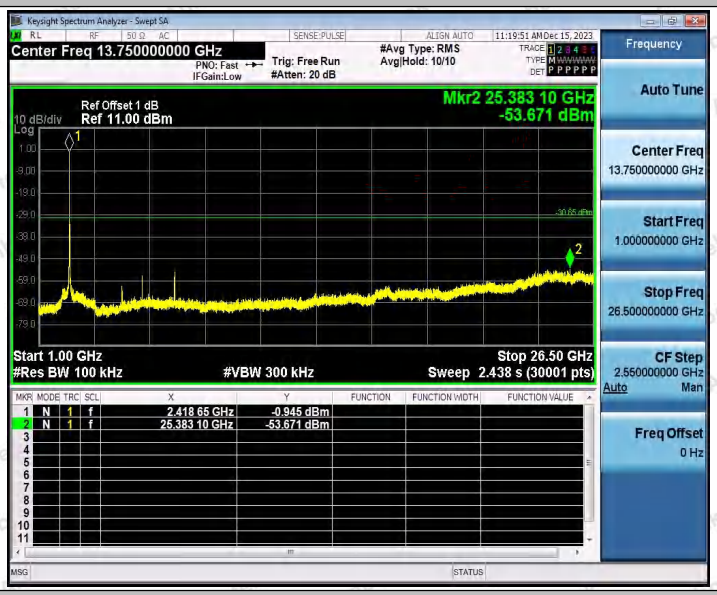
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

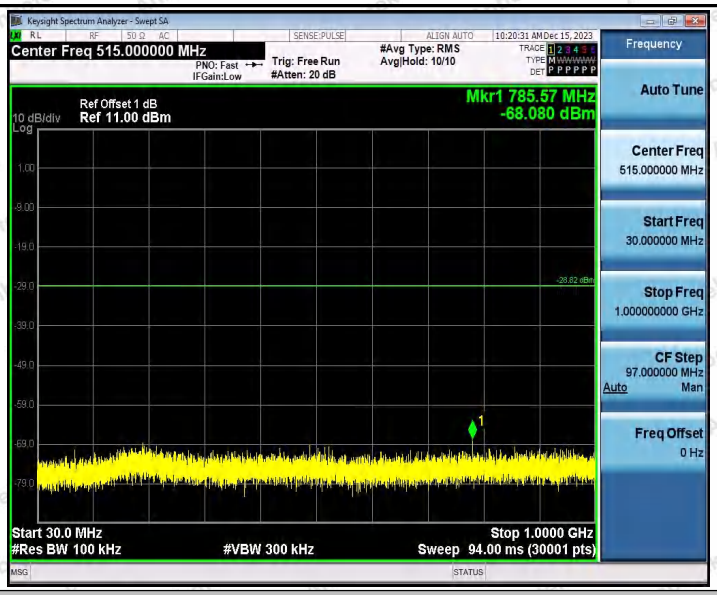


11G_Ant1_2412_1000~26500

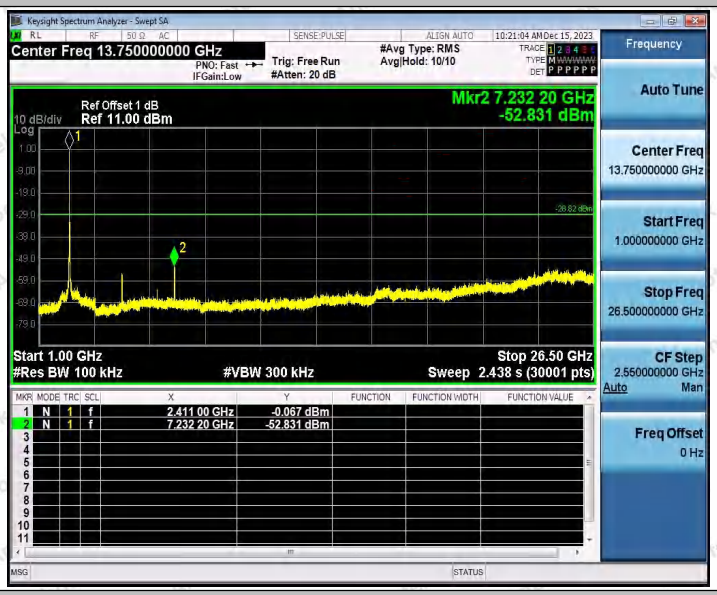


11G_Ant2_2412_0~Reference

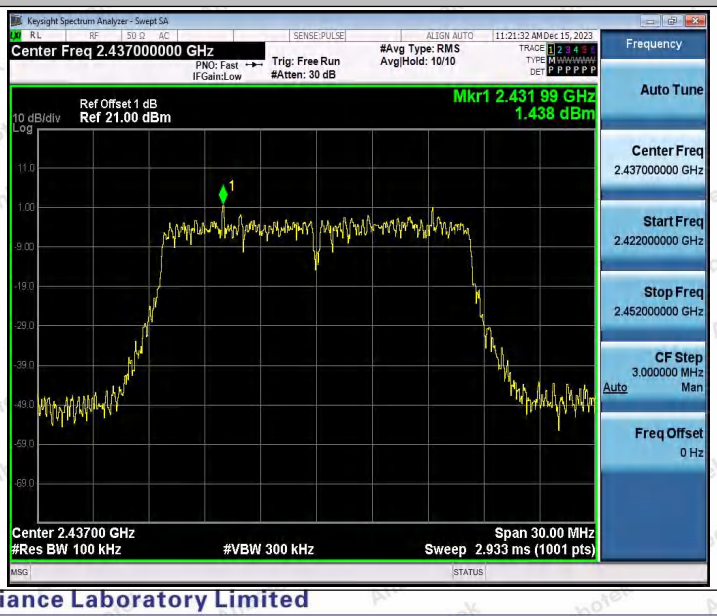
11G_Ant2_2412_30~1000



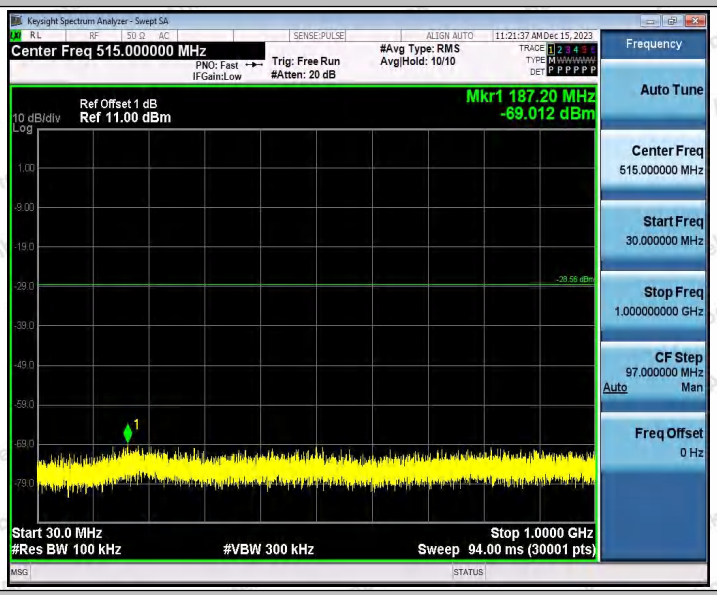
11G_Ant2_2412_1000~26500



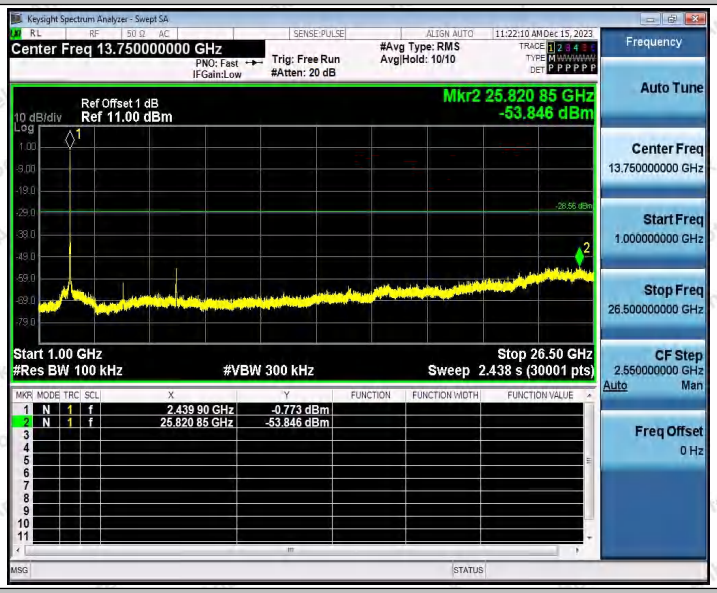
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

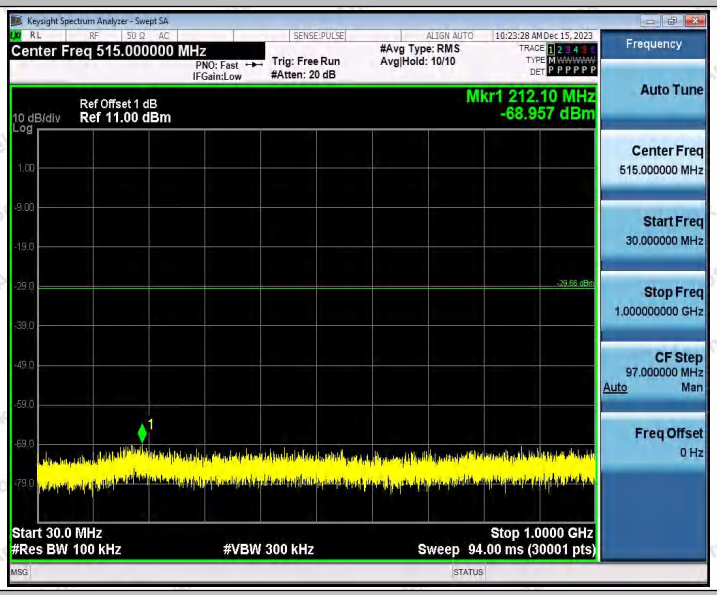


11G_Ant1_2437_1000~26500



11G_Ant2_2437_0~Reference

11G_Ant2_2437_30~1000



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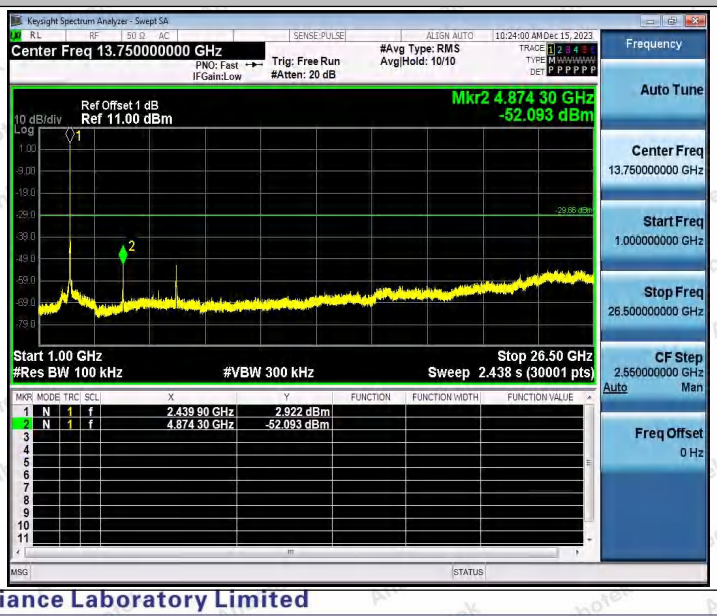
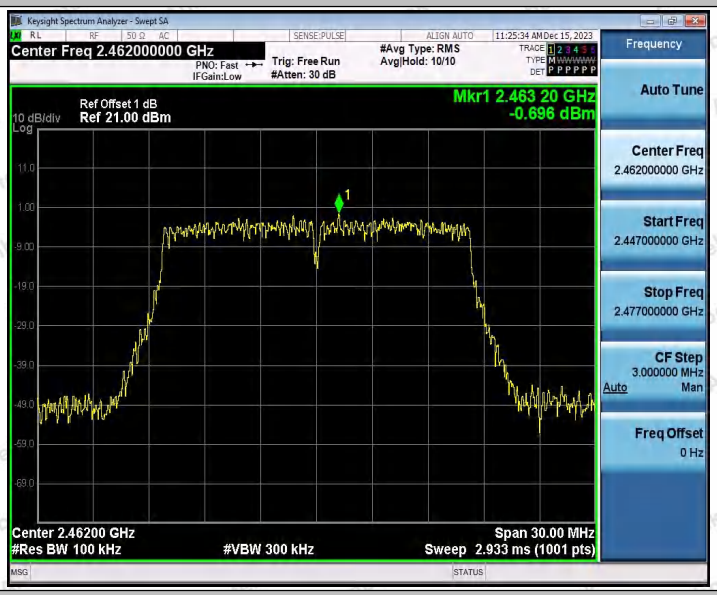


11G_Ant1_2462_0~Reference



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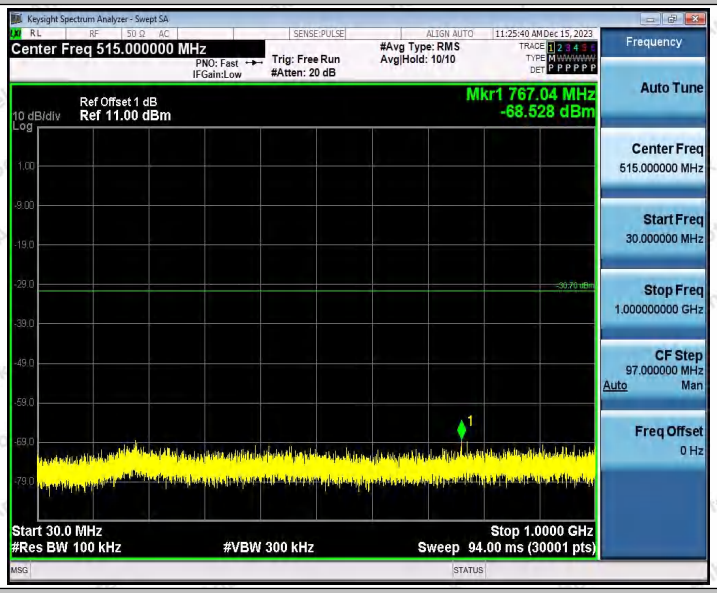

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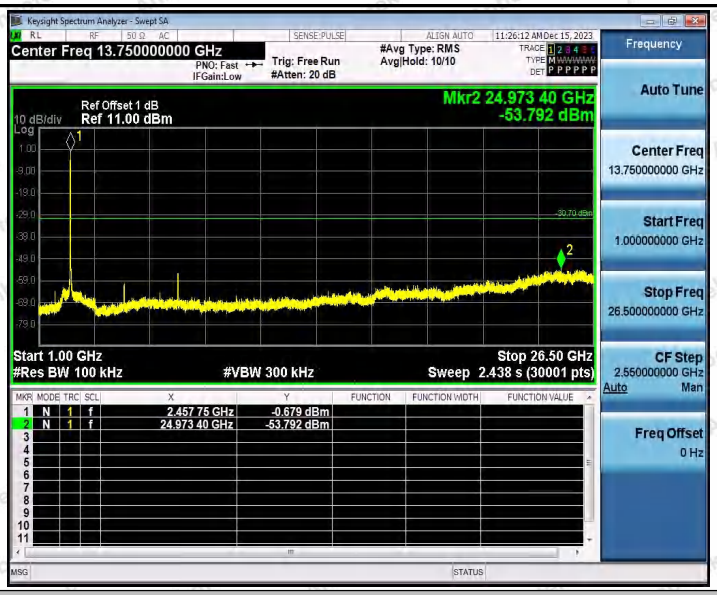
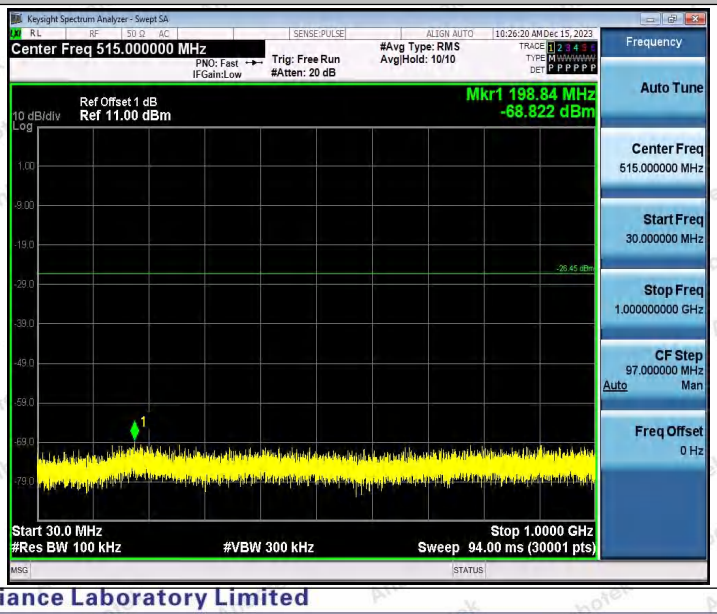
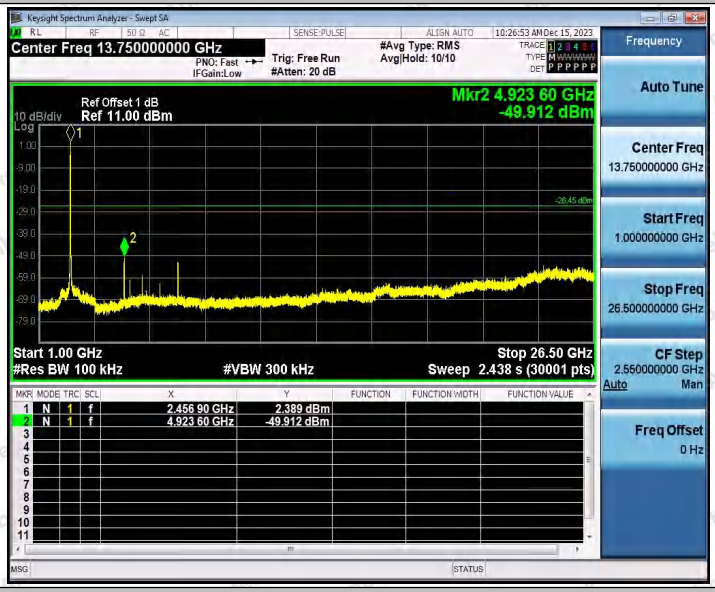


11G_Ant2_2462_0~Reference

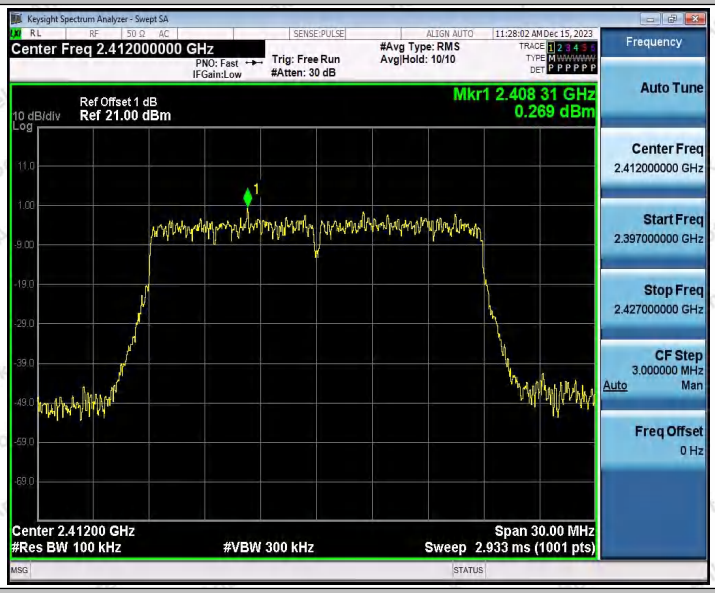
11G_Ant2_2462_30~1000



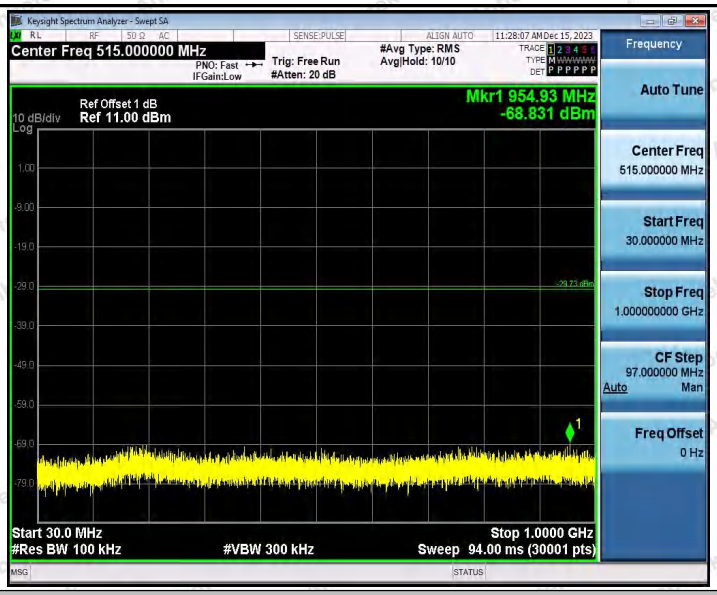
11G_Ant2_2462_1000~26500



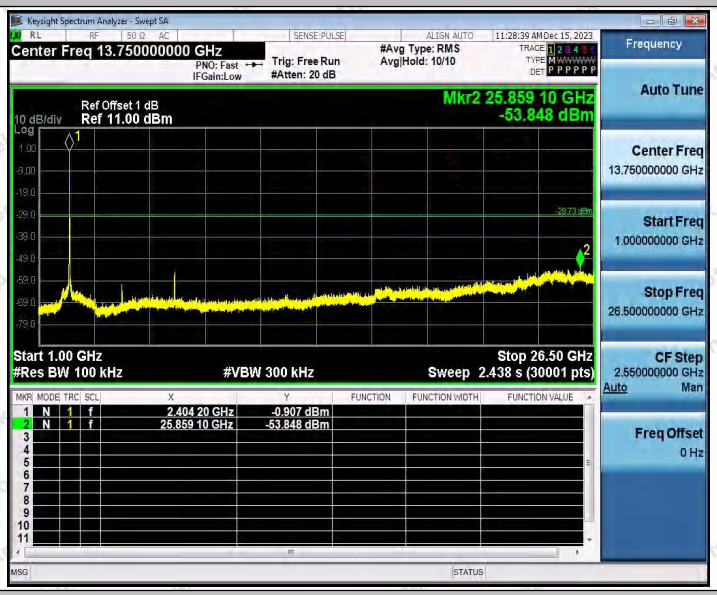
11N20SISO_Ant1_2412_0~Reference



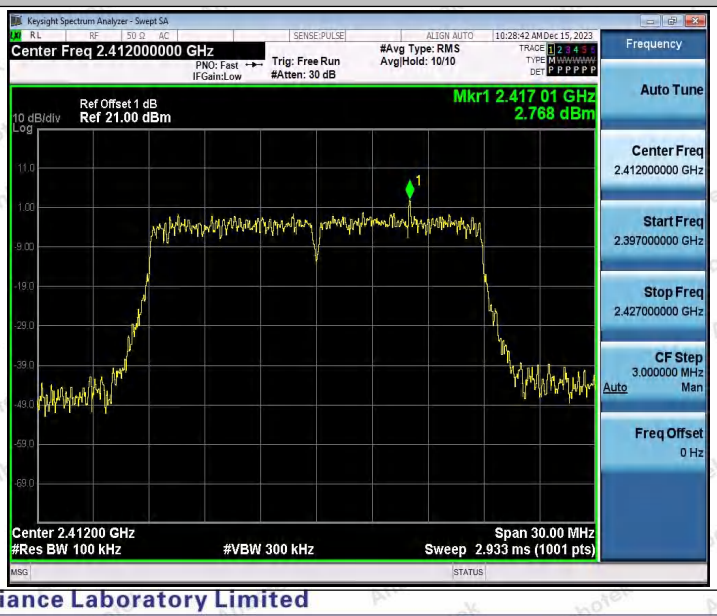
11N20SISO_Ant1_2412_30~1000



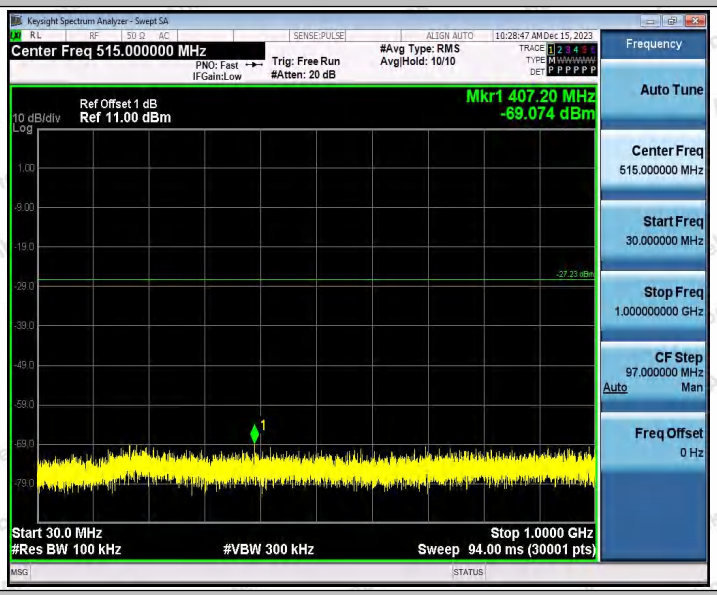
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant2_2412_0~Reference



11N20SISO_Ant2_2412_30~1000



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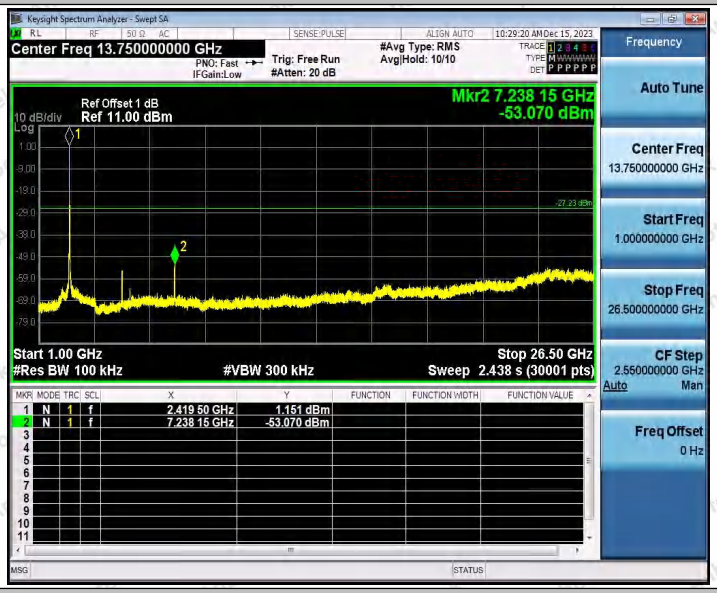
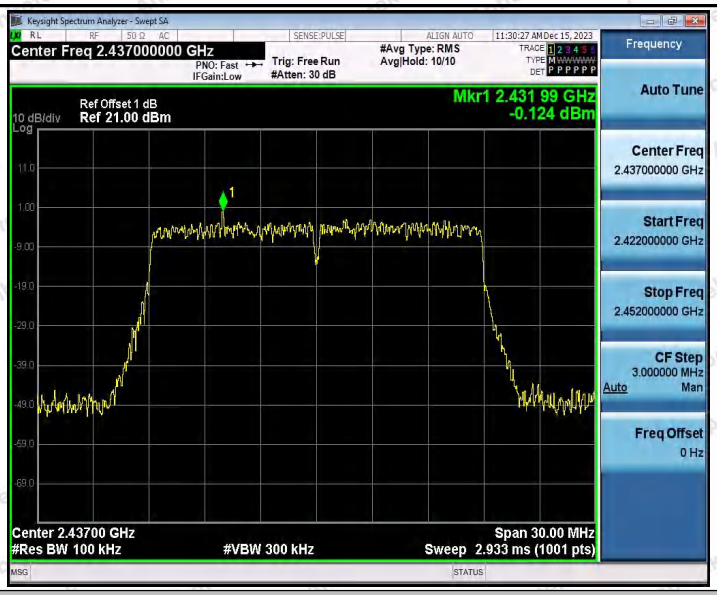
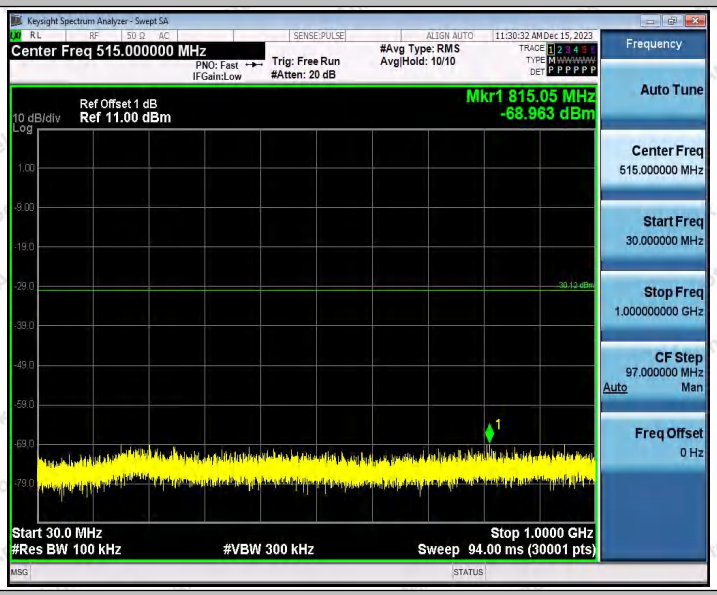


11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



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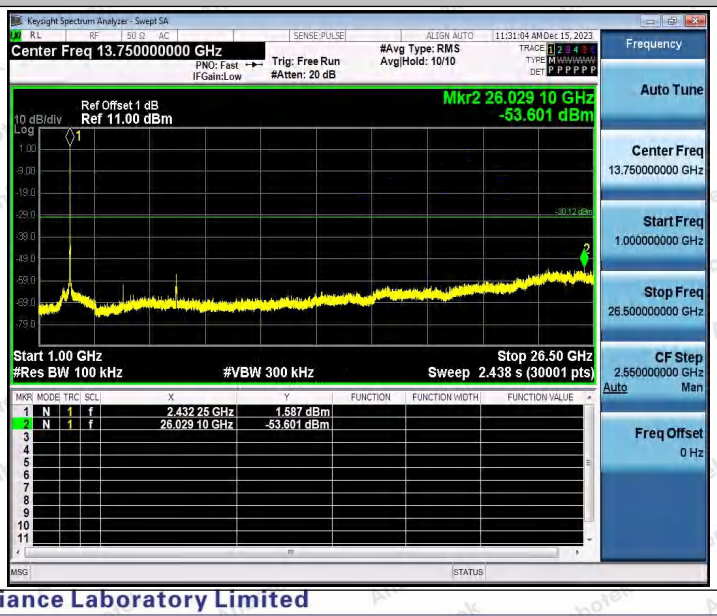
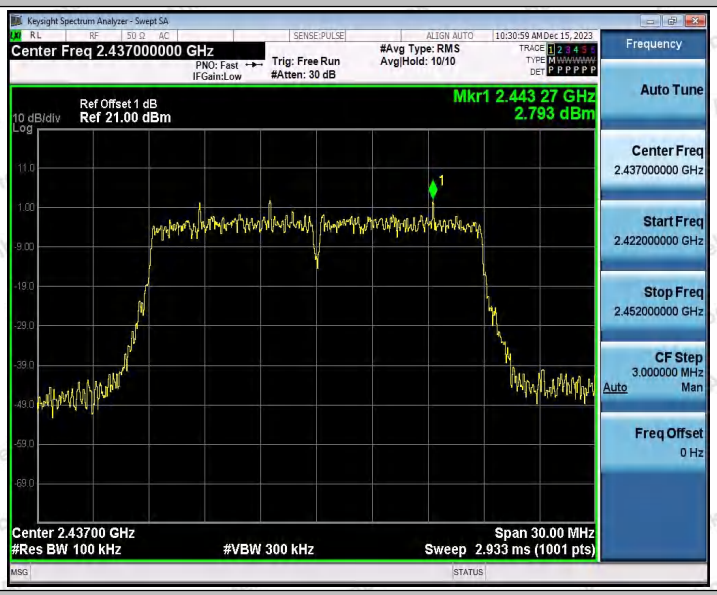
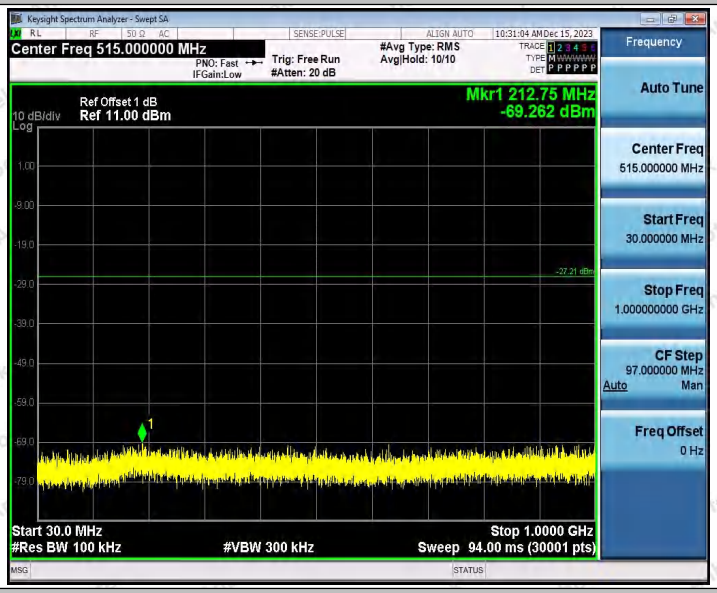


11N20SISO_Ant2_2437_0~Reference



11N20SISO_Ant2_2437_30~1000



11N20SISO_Ant2_2437_1000~26500