Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.12	-17.12	≤8.00	PASS
	Ant2	2412	-8.60	-18.60	≤8.00	PASS
	Ant1	2437	-7.93	-17.93	≤8.00	PASS
	Ant2	2437	-9.24	-19.24	≤8.00	PASS
	Ant1	2462	-7.81	-17.81	≤8.00	PASS
	Ant2	2462	-9.21	-19.21	≤8.00	PASS
11G	Ant1	2412	-8.00	-18.00	≤8.00	PASS
	Ant2	2412	-9.91	-19.91	≤8.00	PASS
	Ant1	2437	-8.37	-18.37	≤8.00	PASS
	Ant2	2437	-10.23	-20.23	≤8.00	PASS
	Ant1	2462	-9.24	-19.24	≤8.00	PASS
	Ant2	2462	-10.21	-20.21	≤8.00	PASS
11N20SISO	Ant1	2412	-8.46	-18.46	≤8.00	PASS
	Ant2	2412	-10.19	-20.19	≤8.00	PASS
	Ant1	2437	-9.39	-19.39	≤8.00	PASS
	Ant2	2437	-10.87	-20.87	≤8.00	PASS
	Ant1	2462	-9.20	-19.20	≤8.00	PASS
	Ant2	2462	-10.94	-20.94	≤8.00	PASS
11N40SISO	Ant1	2422	-10.77	-20.77	≤8.00	PASS
	Ant2	2422	-12.91	-22.91	≤8.00	PASS
	Ant1	2437	-10.16	-20.16	≤8.00	PASS
	Ant2	2437	-12.68	-22.68	≤8.00	PASS
	Ant1	2452	-10.46	-20.46	≤8.00	PASS
	Ant2	2452	-12.03	-22.03	≤8.00	PASS
11AX20SISO	Ant1	2412	-7.35	-17.35	≤8.00	PASS
	Ant2	2412	-8.71	-18.71	≤8.00	PASS
	Ant1	2437	-7.98	-17.98	≤8.00	PASS
	Ant2	2437	-9.74	-19.74	≤8.00	PASS
	Ant1	2462	-8.08	-18.08	≤8.00	PASS
	Ant2	2462	-10.14	-20.14	≤8.00	PASS
11AX40SISO	Ant1	2422	-7.91	-17.91	≤8.00	PASS
	Ant2	2422	-10.50	-20.50	≤8.00	PASS
	Ant1	2437	-8.27	-18.27	≤8.00	PASS
	Ant2	2437	-10.58	-20.58	≤8.00	PASS
	Ant1	2452	-7.45	-17.45	≤8.00	PASS
	Ant2	2452	-10.50	-20.50	≤8.00	PASS

Note:

1. The Duty Cycle Factor(10*log(1/D)) and cable loss are compensated in the graph.
2. PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3))

MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm/3kHz]	Total [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20MIMO	Ant1	2412	-18.46	-16.23	≤8.00	PASS
	Ant2	2412	-20.19			
	Ant1	2437	-19.39	-17.06	≤8.00	PASS
	Ant2	2437	-20.87			
	Ant1	2462	-19.20	-16.97	≤8.00	PASS
	Ant2	2462	-20.94			
11N40MIMO	Ant1	2422	-20.77	-18.70	≤8.00	PASS
	Ant2	2422	-22.91			
	Ant1	2437	-20.16	-18.23	≤8.00	PASS
	Ant2	2437	-22.68			
	Ant1	2452	-20.46	-18.16	≤8.00	PASS
	Ant2	2452	-22.03			
11AX20MIMO	Ant1	2412	-17.35	-14.97	≤8.00	PASS
	Ant2	2412	-18.71			
	Ant1	2437	-17.98	-15.76	≤8.00	PASS
	Ant2	2437	-19.74			
	Ant1	2462	-18.08	-15.98	≤8.00	PASS
	Ant2	2462	-20.14			
11AX40MIMO	Ant1	2422	-17.91	-16.00	≤8.00	PASS
	Ant2	2422	-20.50			
	Ant1	2437	-18.27	-16.26	≤8.00	PASS
	Ant2	2437	-20.58			
	Ant1	2452	-17.45	-15.70	≤8.00	PASS
	Ant2	2452	-20.50			

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

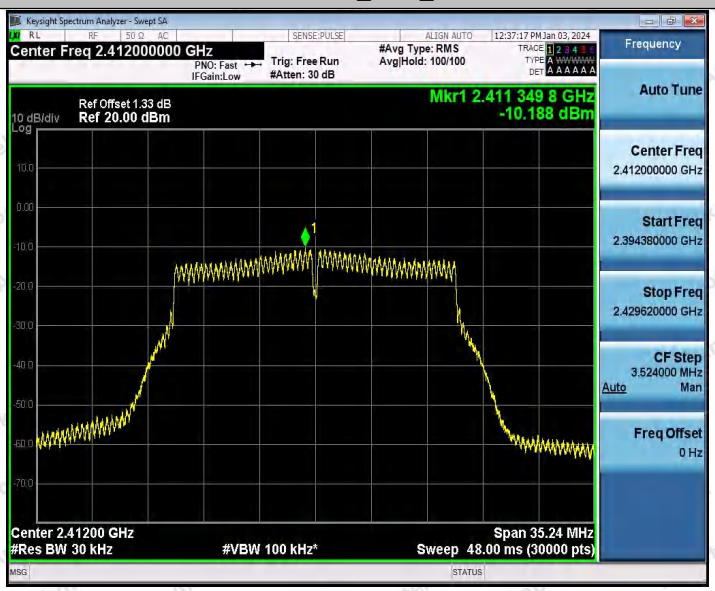
11G_Ant2_2437

11G_Ant1_2462

11G_Ant2_2462

11N20SISO_Ant1_2412

11N20SISO_Ant2_2412



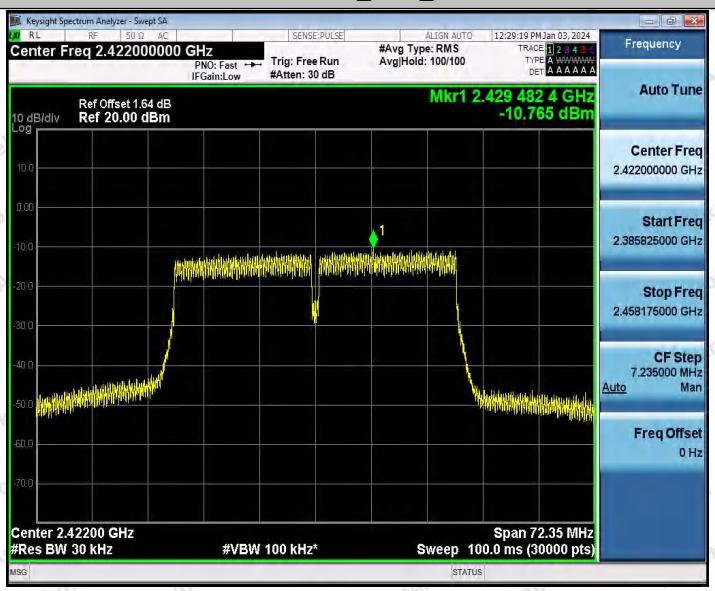
11N20SISO_Ant1_2437

11N20SISO_Ant2_2437

11N20SISO_Ant1_2462

11N20SISO_Ant2_2462

11N40SISO_Ant1_2422

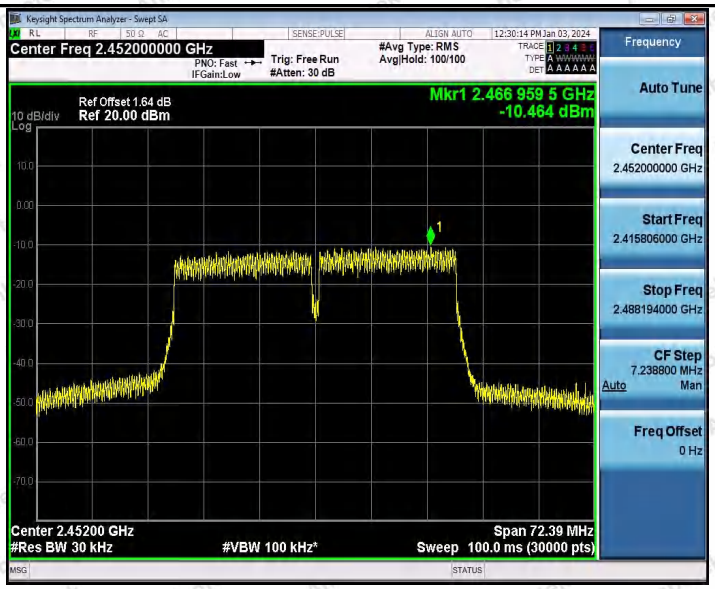


11N40SISO_Ant2_2422

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

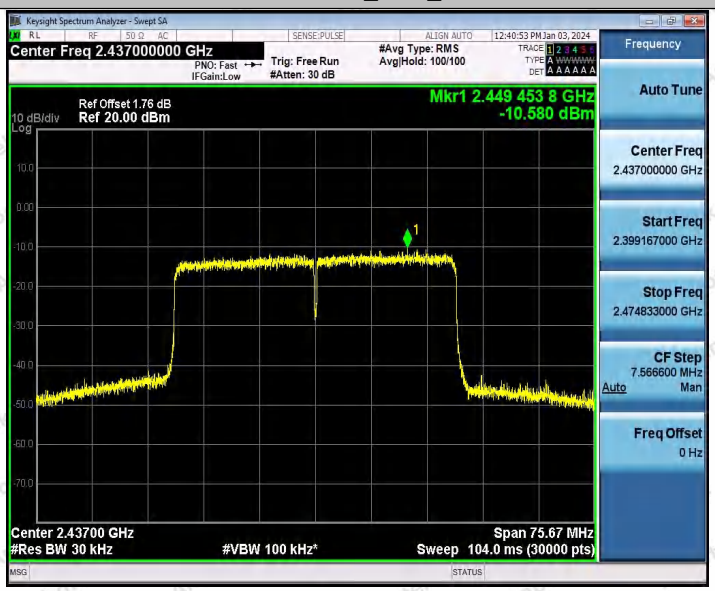
11AX20SISO_Ant2_2462

11AX40SISO_Ant1_2422

11AX40SISO_Ant2_2422

11AX40SISO_Ant1_2437

11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452

11AX40SISO_Ant2_2452

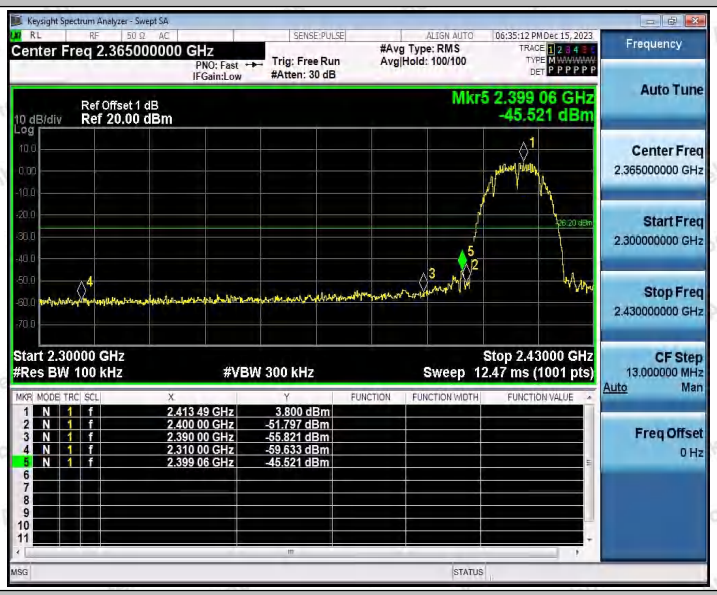
Appendix E: Band edge measurements

Test Result

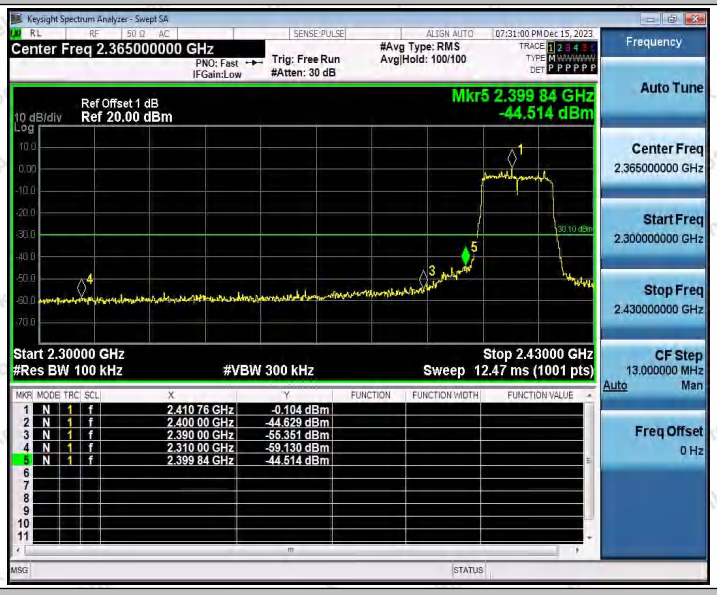
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.80	-45.52	≤-26.2	PASS
	Ant2	Low	2412	-0.10	-44.51	≤-30.1	PASS
	Ant1	High	2462	4.41	-53.52	≤-25.59	PASS
	Ant2	High	2462	-0.05	-53.77	≤-30.05	PASS
11G	Ant1	Low	2412	1.73	-50.75	≤-28.27	PASS
	Ant2	Low	2412	0.30	-49.69	≤-29.7	PASS
	Ant1	High	2462	1.83	-51.54	≤-28.17	PASS
	Ant2	High	2462	0.87	-53.44	≤-29.13	PASS
11N20SISO	Ant1	Low	2412	1.88	-51.05	≤-28.13	PASS
	Ant2	Low	2412	0.35	-49.86	≤-29.66	PASS
	Ant1	High	2462	1.30	-51.78	≤-28.7	PASS
	Ant2	High	2462	0.81	-51.15	≤-29.19	PASS
11N40SISO	Ant1	Low	2422	-0.48	-47.74	≤-30.48	PASS
	Ant2	Low	2422	-1.91	-50.88	≤-31.91	PASS
	Ant1	High	2452	-0.50	-50.51	≤-30.5	PASS
	Ant2	High	2452	-2.14	-48.66	≤-32.14	PASS
11AX20SISO	Ant1	Low	2412	1.43	-49.6	≤-28.57	PASS
	Ant2	Low	2412	0.17	-48.44	≤-29.83	PASS
	Ant1	High	2462	1.94	-50.78	≤-28.06	PASS
	Ant2	High	2462	0.31	-52.39	≤-29.69	PASS
11AX40SISO	Ant1	Low	2422	-0.78	-46.40	≤-30.78	PASS
	Ant2	Low	2422	-2.44	-50.59	≤-32.44	PASS
	Ant1	High	2452	-1.10	-48.39	≤-31.1	PASS
	Ant2	High	2452	-1.69	-49.74	≤-31.69	PASS

Test Graphs

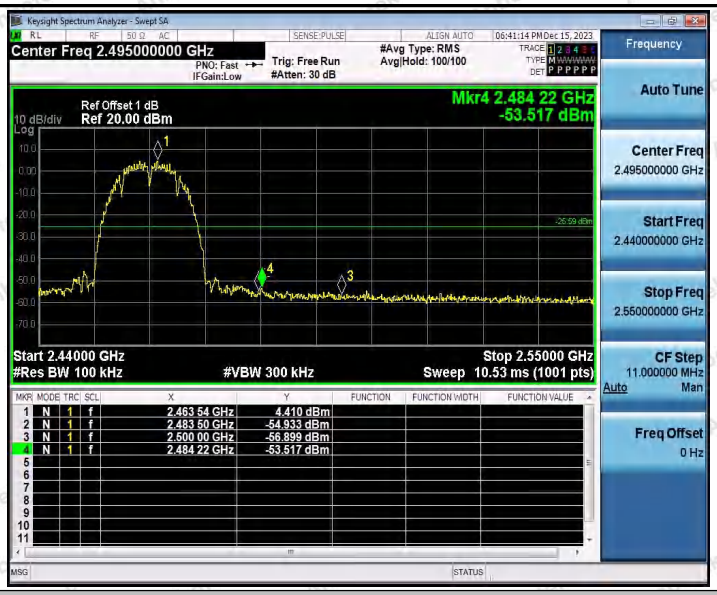
11B_Ant1_Low_2412



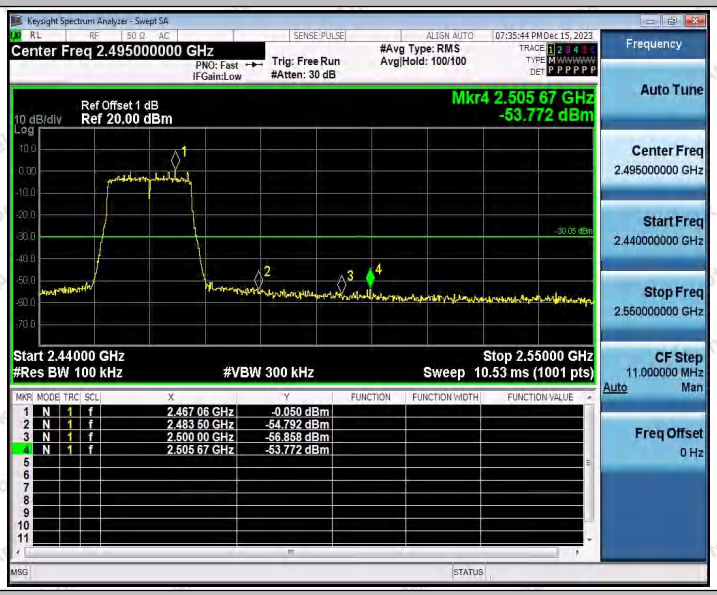
11B_Ant2_Low_2412



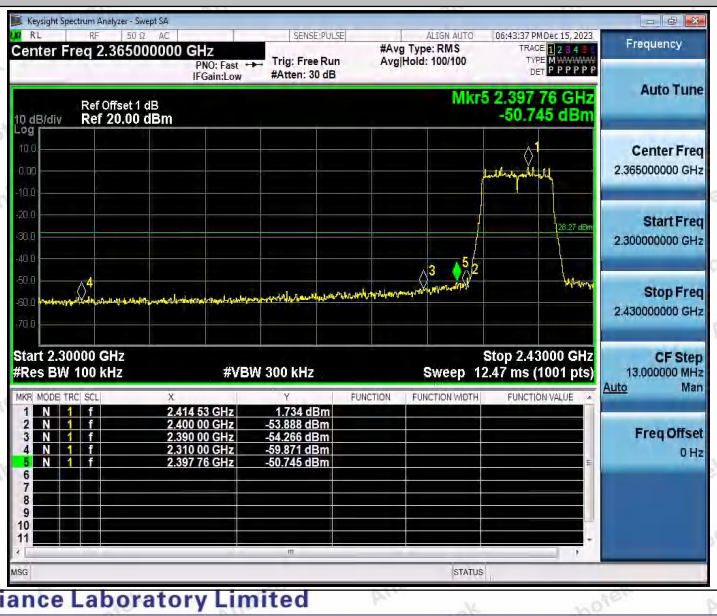
11B_Ant1_High_2462



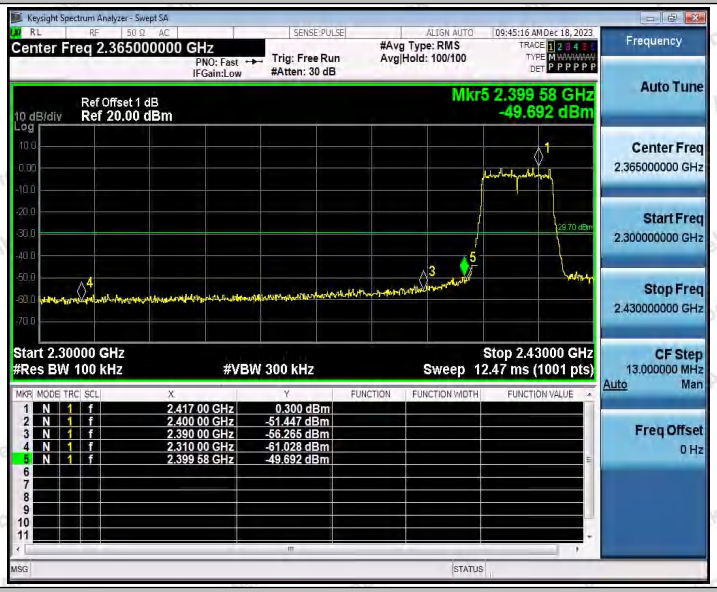
11B_Ant2_High_2462



11G_Ant1_Low_2412



11G_Ant2_Low_2412



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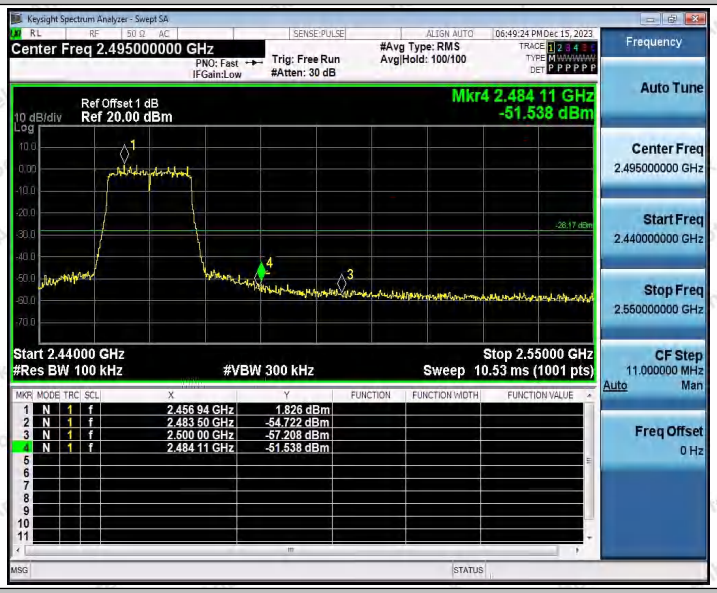
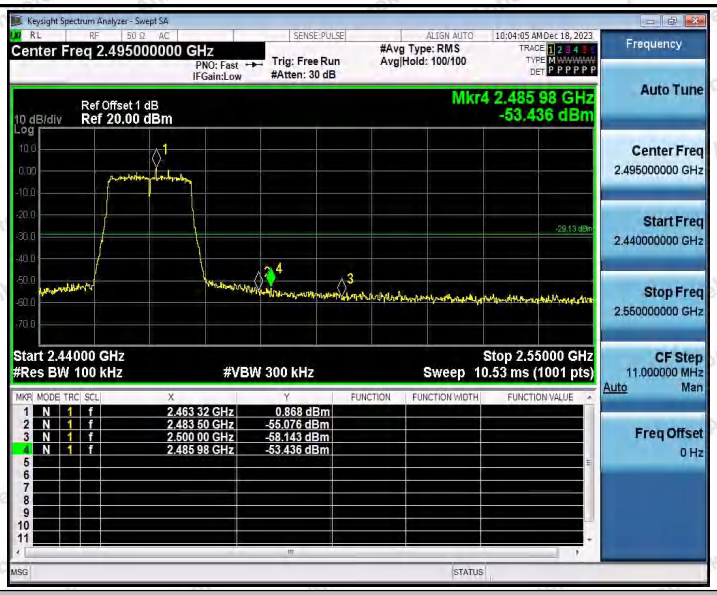
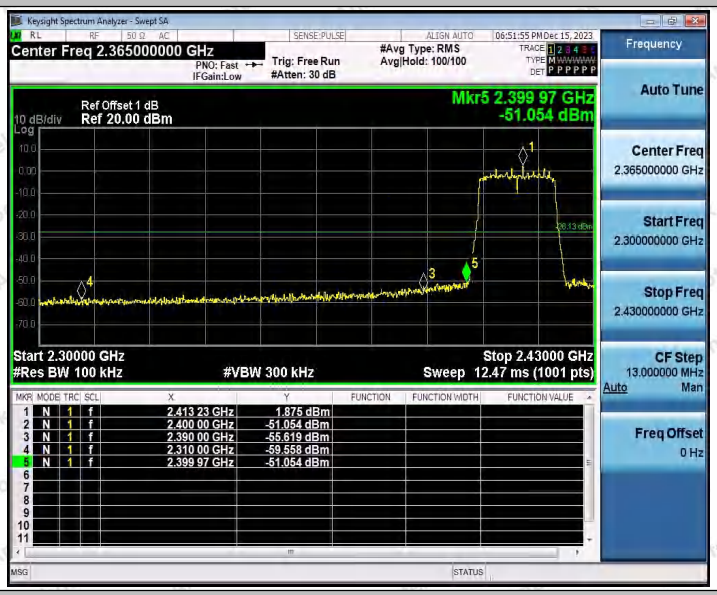


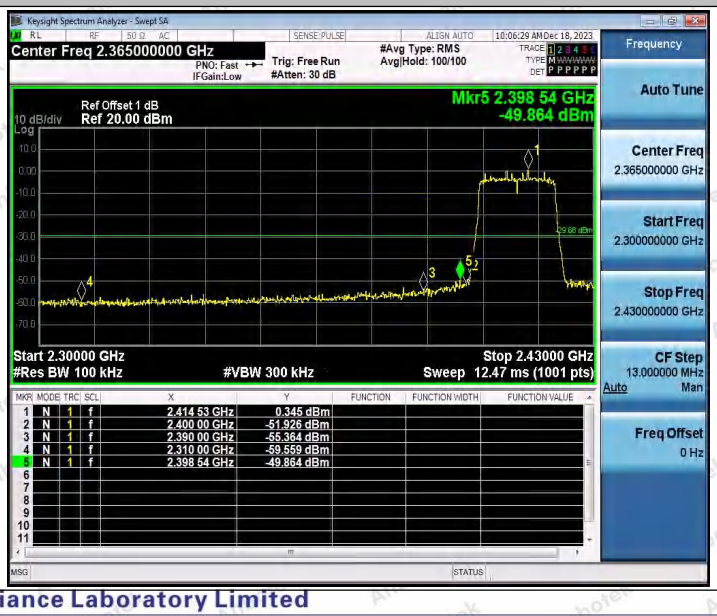
11G_Ant2_High_2462



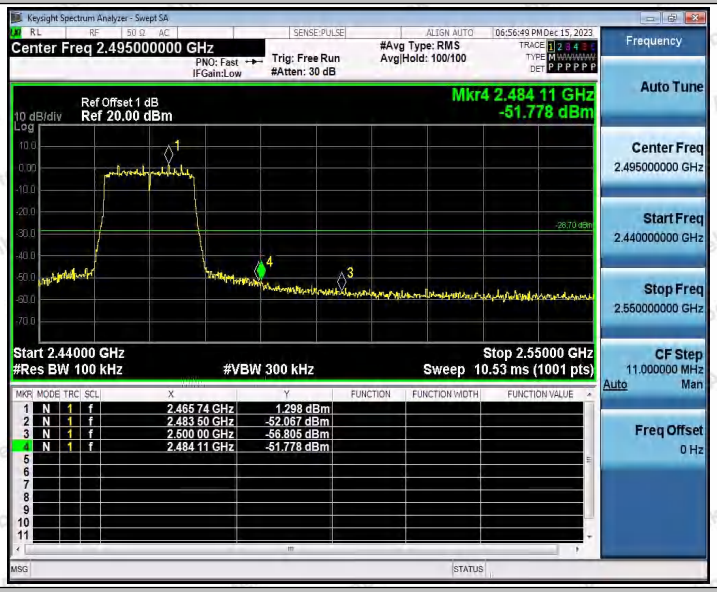
11N20SISO_Ant1_Low_2412



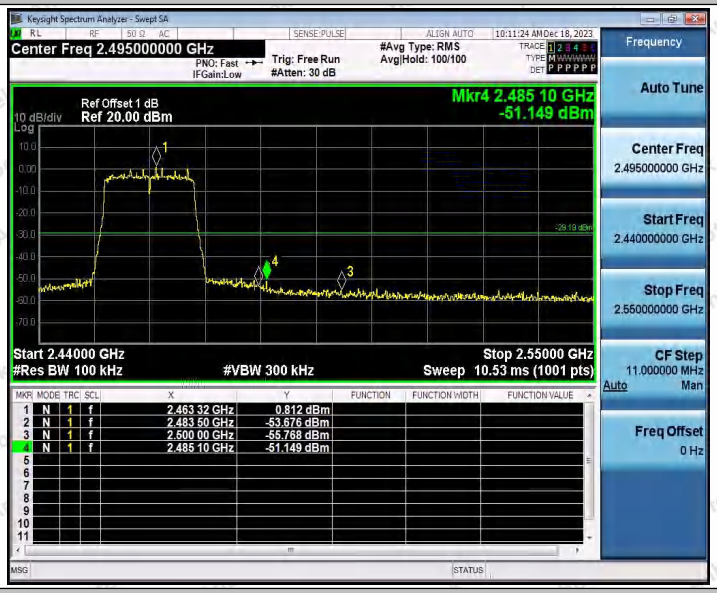
11N20SISO_Ant2_Low_2412



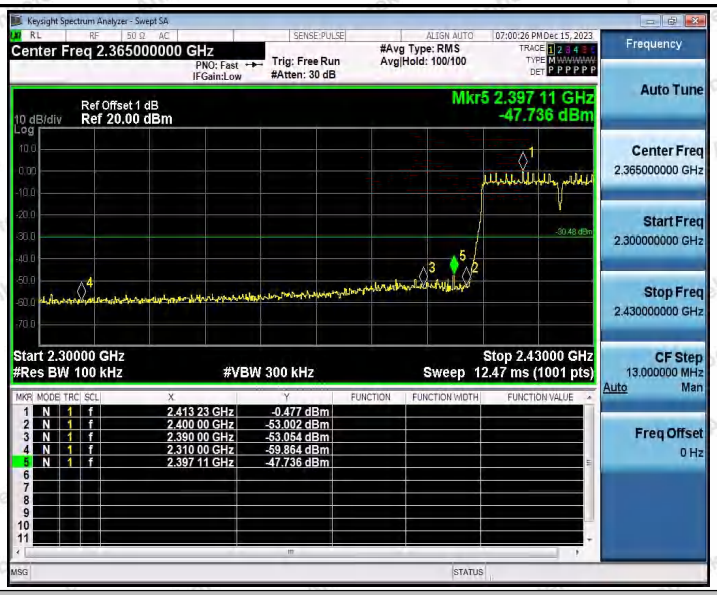
11N20SISO_Ant1_High_2462



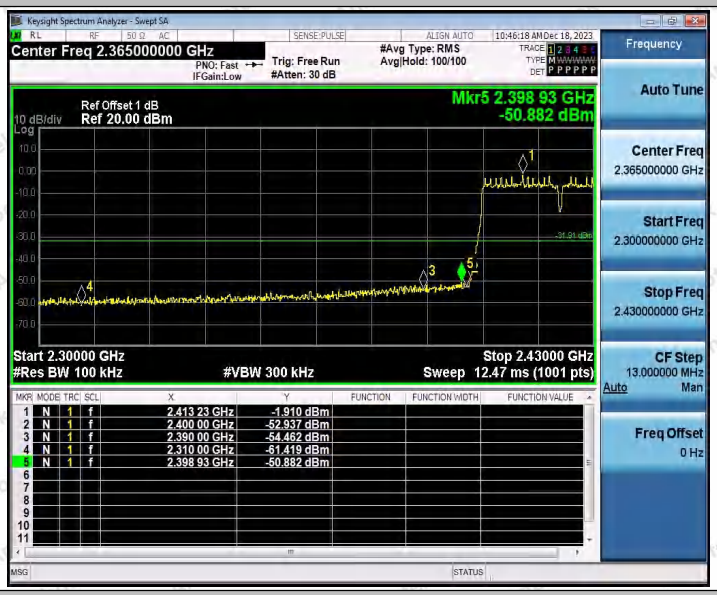
11N20SISO_Ant2_High_2462



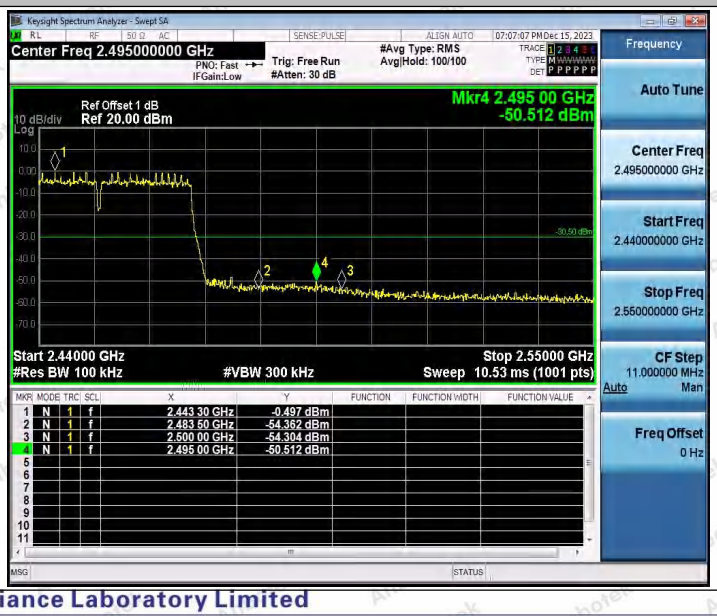
11N40SISO_Ant1_Low_2422



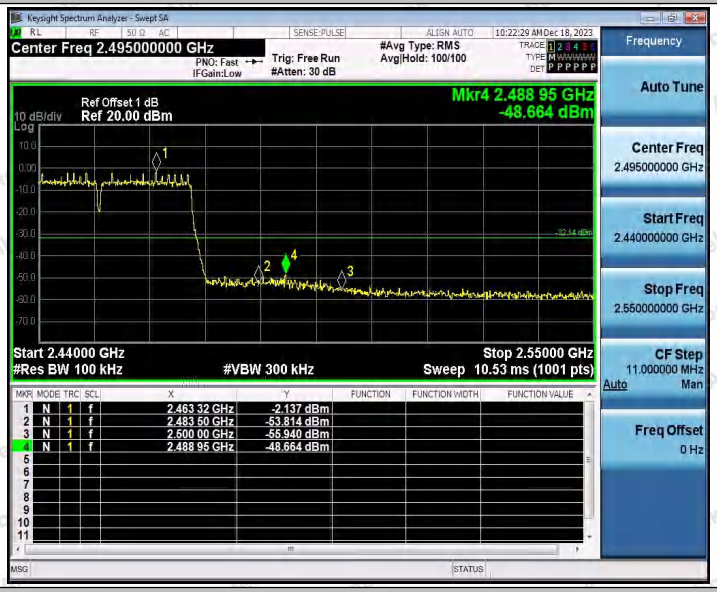
11N40SISO_Ant2_Low_2422



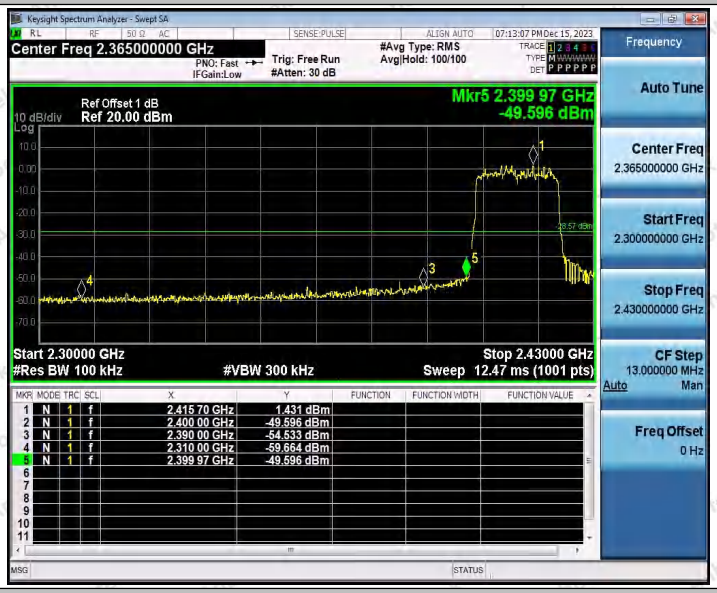
11N40SISO_Ant1_High_2452



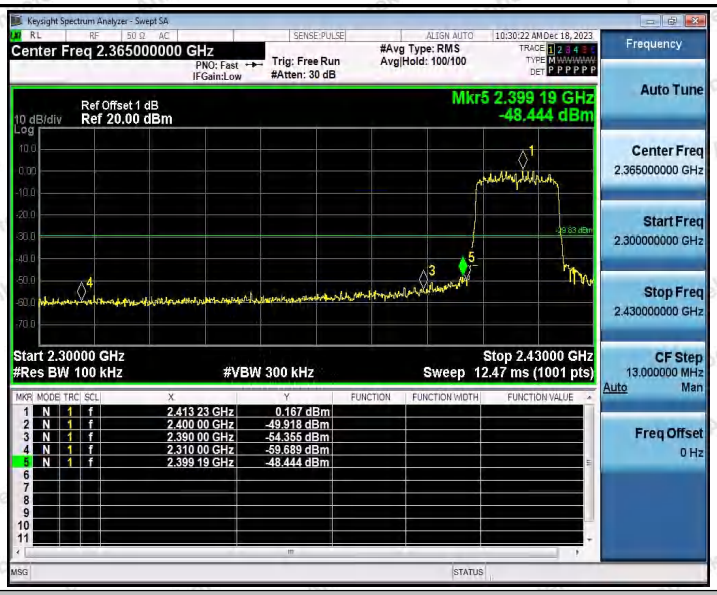
11N40SISO_Ant2_High_2452



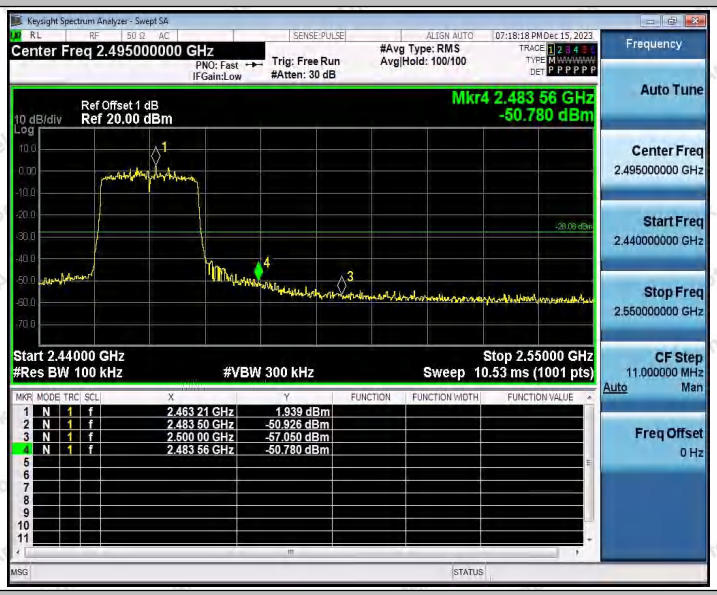
11AX20SISO_Ant1_Low_2412



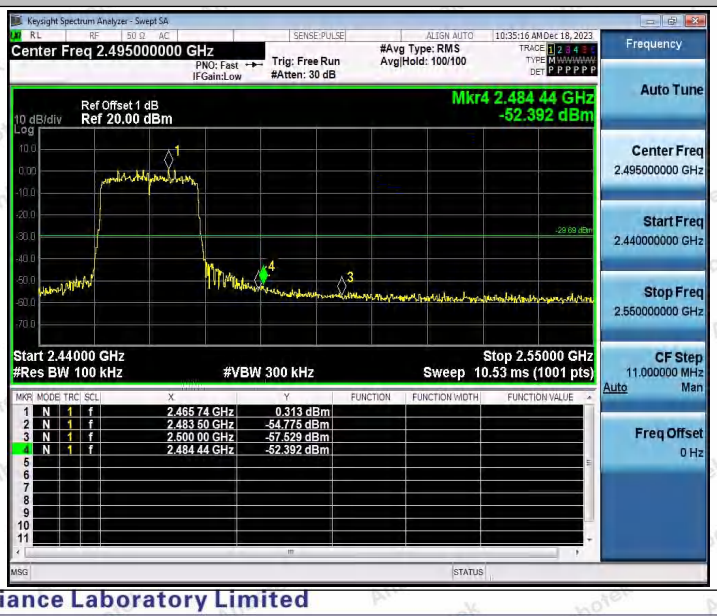
11AX20SISO_Ant2_Low_2412



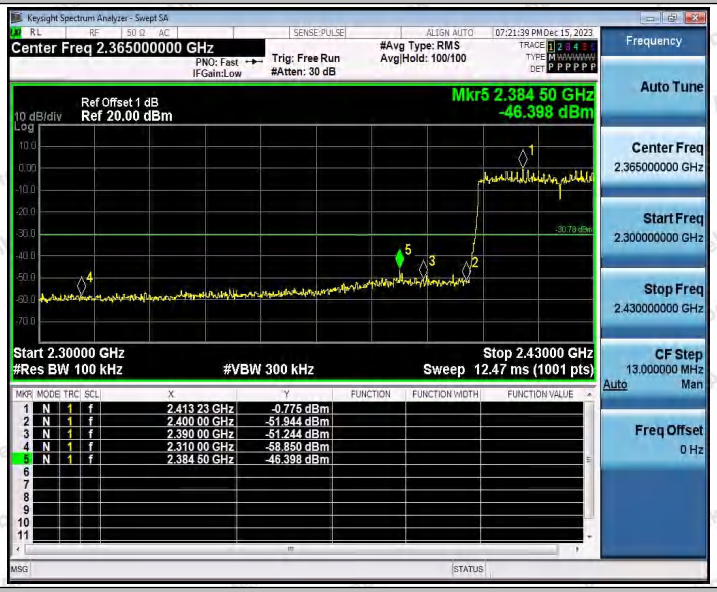
11AX20SISO_Ant1_High_2462



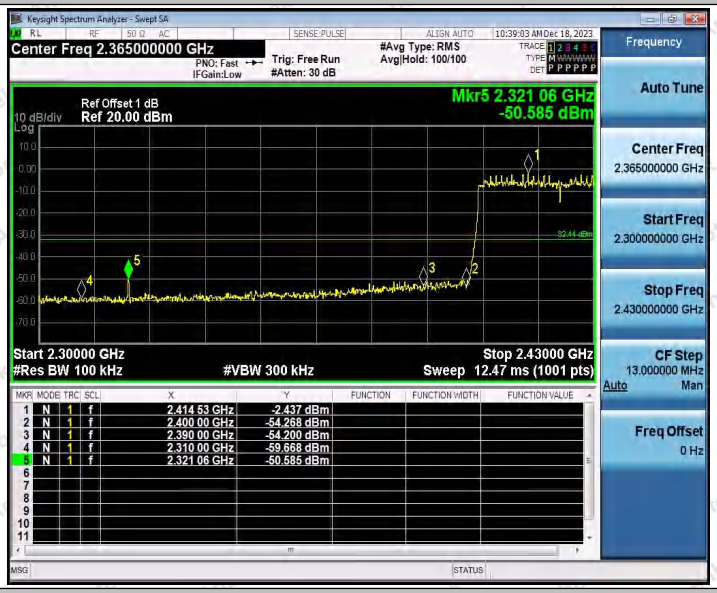
11AX20SISO_Ant2_High_2462



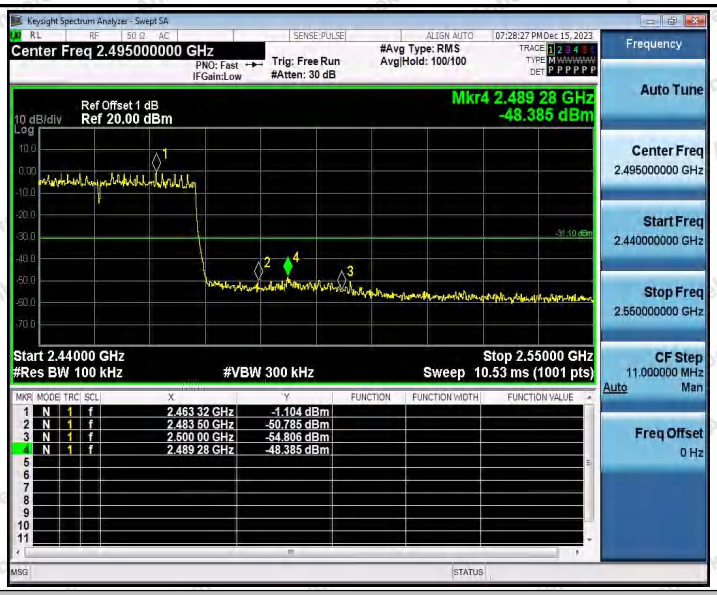
11AX40SISO_Ant1_Low_2422



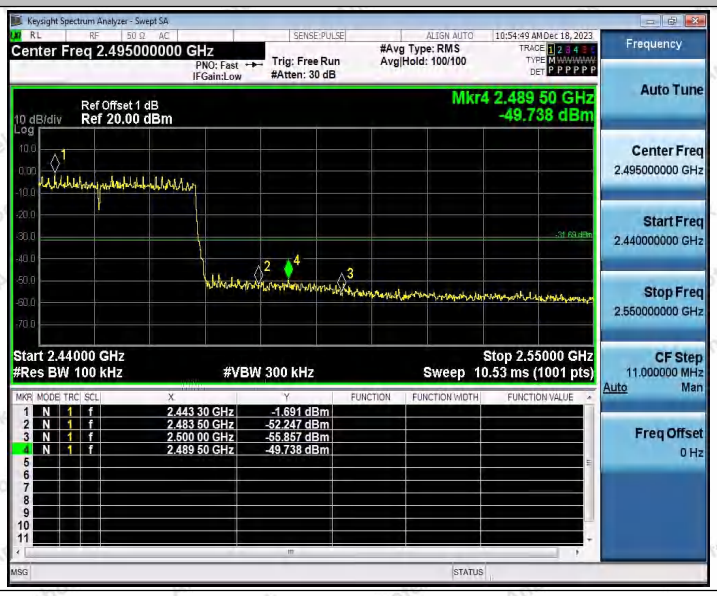
11AX40SISO_Ant2_Low_2422



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	2.75	2.75	---	PASS
			30~1000	2.75	-69.29	≤-27.25	PASS
			1000~26500	2.75	-53.94	≤-27.25	PASS
	Ant2	2412	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-68.83	≤-31.09	PASS
			1000~26500	-1.09	-53.44	≤-31.09	PASS
	Ant1	2437	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-69.06	≤-27.44	PASS
			1000~26500	2.56	-53.43	≤-27.44	PASS
	Ant2	2437	Reference	-1.94	-1.94	---	PASS
			30~1000	-1.94	-68.62	≤-31.94	PASS
			1000~26500	-1.94	-53.96	≤-31.94	PASS
	Ant1	2462	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-67.76	≤-27.66	PASS
			1000~26500	2.34	-53.62	≤-27.66	PASS
	Ant2	2462	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-69.54	≤-30.58	PASS
			1000~26500	-0.58	-53.97	≤-30.58	PASS
11G	Ant1	2412	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-69.09	≤-30.83	PASS
			1000~26500	-0.83	-53.78	≤-30.83	PASS
	Ant2	2412	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-69.48	≤-30.85	PASS
			1000~26500	-0.85	-54.66	≤-30.85	PASS
	Ant1	2437	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-68.64	≤-30.16	PASS
			1000~26500	-0.16	-53.19	≤-30.16	PASS
	Ant2	2437	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-68.76	≤-33.04	PASS
			1000~26500	-3.04	-53.91	≤-33.04	PASS
	Ant1	2462	Reference	1.36	1.36	---	PASS
			30~1000	1.36	-69.03	≤-28.64	PASS
			1000~26500	1.36	-53.49	≤-28.64	PASS
	Ant2	2462	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-68.62	≤-30.88	PASS
			1000~26500	-0.88	-53.45	≤-30.88	PASS
11N20SISO	Ant1	2412	Reference	1.61	1.61	---	PASS

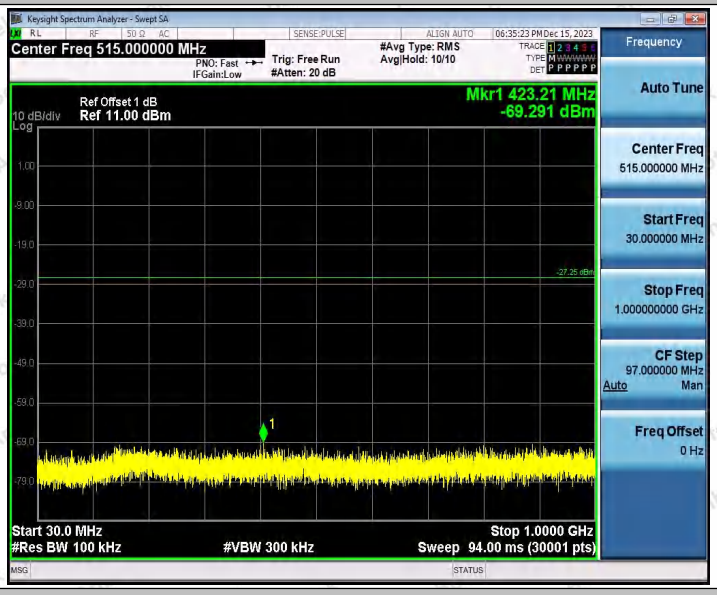
			30~1000	1.61	-68.68	≤-28.39	PASS
			1000~26500	1.61	-52.88	≤-28.39	PASS
	Ant2	2412	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-69.03	≤-32.59	PASS
			1000~26500	-2.59	-53.91	≤-32.59	PASS
	Ant1	2437	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-68.96	≤-31.63	PASS
			1000~26500	-1.63	-54	≤-31.63	PASS
	Ant2	2437	Reference	-0.66	-0.66	---	PASS
			30~1000	-0.66	-69.61	≤-30.66	PASS
			1000~26500	-0.66	-53.75	≤-30.66	PASS
	Ant1	2462	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-68.04	≤-31.86	PASS
			1000~26500	-1.86	-53.12	≤-31.86	PASS
	Ant2	2462	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-69.36	≤-30.75	PASS
			1000~26500	-0.75	-53.67	≤-30.75	PASS
11N40SISO	Ant1	2422	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-67.86	≤-31.11	PASS
			1000~26500	-1.11	-53.26	≤-31.11	PASS
	Ant2	2422	Reference	-2.75	-2.75	---	PASS
			30~1000	-2.75	-67.99	≤-32.75	PASS
			1000~26500	-2.75	-53.96	≤-32.75	PASS
	Ant1	2437	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-68.13	≤-30.75	PASS
			1000~26500	-0.75	-53.58	≤-30.75	PASS
	Ant2	2437	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-69	≤-32.84	PASS
			1000~26500	-2.84	-53.12	≤-32.84	PASS
	Ant1	2452	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-68.81	≤-31.25	PASS
			1000~26500	-1.25	-54.17	≤-31.25	PASS
	Ant2	2452	Reference	-2.62	-2.62	---	PASS
			30~1000	-2.62	-69.62	≤-32.62	PASS
			1000~26500	-2.62	-53.3	≤-32.62	PASS
11AX20SISO	Ant1	2412	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-68.81	≤-29.2	PASS
			1000~26500	0.80	-53.9	≤-29.2	PASS
	Ant2	2412	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-68.27	≤-30.84	PASS
			1000~26500	-0.84	-53.99	≤-30.84	PASS
	Ant1	2437	Reference	1.38	1.38	---	PASS

			30~1000	1.38	-68.87	≤-28.62	PASS
			1000~26500	1.38	-54.15	≤-28.62	PASS
	Ant2	2437	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-68.56	≤-32.69	PASS
			1000~26500	-2.69	-54.01	≤-32.69	PASS
	Ant1	2462	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-69.27	≤-28.75	PASS
			1000~26500	1.25	-52.49	≤-28.75	PASS
	Ant2	2462	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-69.19	≤-31.67	PASS
			1000~26500	-1.67	-54.27	≤-31.67	PASS
11AX40SISO	Ant1	2422	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-67.48	≤-32.17	PASS
			1000~26500	-2.17	-53.49	≤-32.17	PASS
	Ant2	2422	Reference	-2.12	-2.12	---	PASS
			30~1000	-2.12	-67.41	≤-32.12	PASS
			1000~26500	-2.12	-53.7	≤-32.12	PASS
	Ant1	2437	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-69.04	≤-31.08	PASS
			1000~26500	-1.08	-54	≤-31.08	PASS
	Ant2	2437	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-69.13	≤-32.83	PASS
			1000~26500	-2.83	-53.96	≤-32.83	PASS
	Ant1	2452	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-69.02	≤-31.33	PASS
			1000~26500	-1.33	-52.22	≤-31.33	PASS
	Ant2	2452	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-69.11	≤-32.13	PASS
			1000~26500	-2.13	-53.99	≤-32.13	PASS

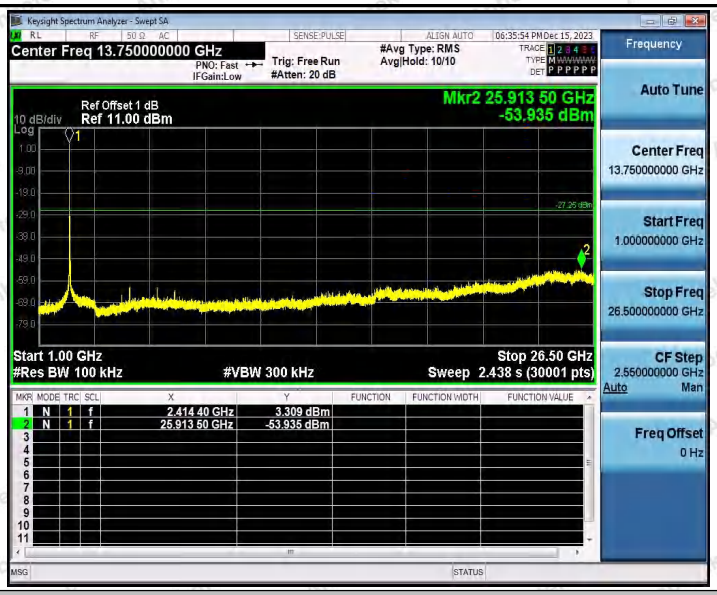
Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000

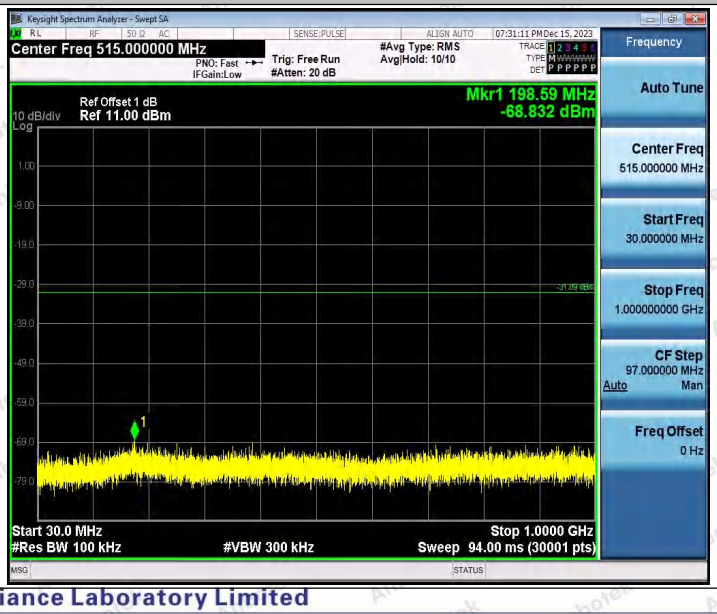


11B_Ant1_2412_1000~26500

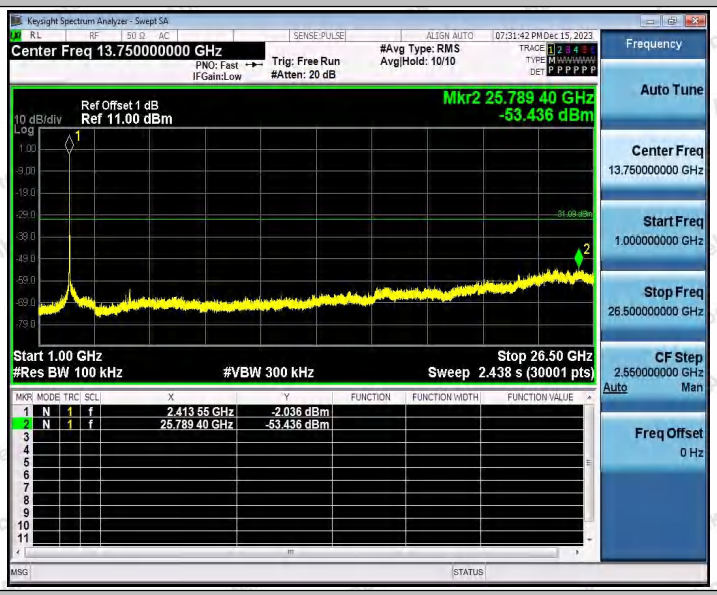


11B_Ant2_2412_0~Reference

11B_Ant2_2412_30~1000

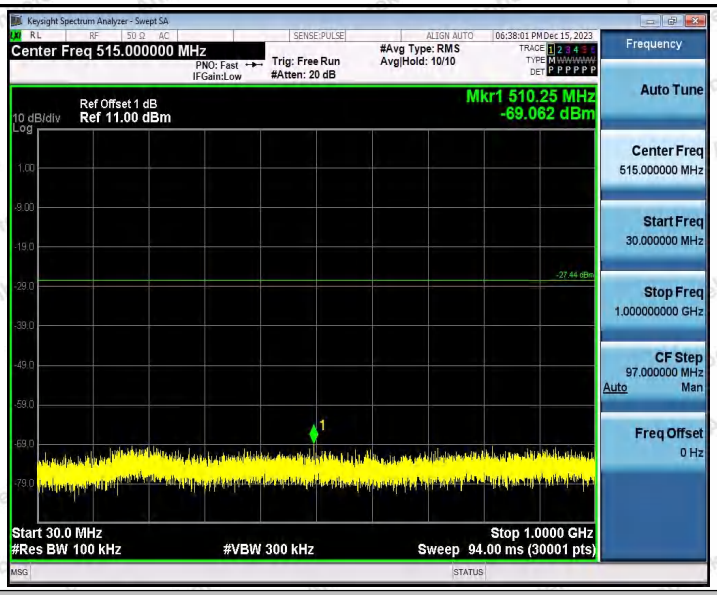


11B_Ant2_2412_1000~26500

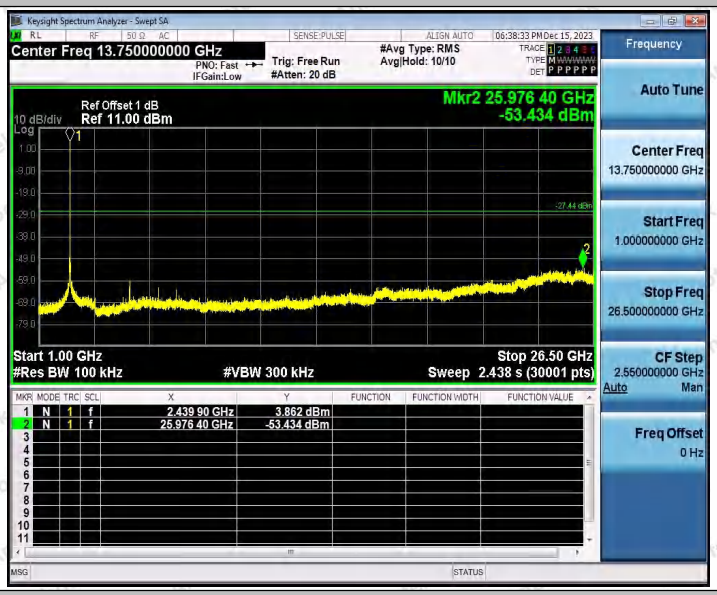


11B_Ant1_2437_0~Reference

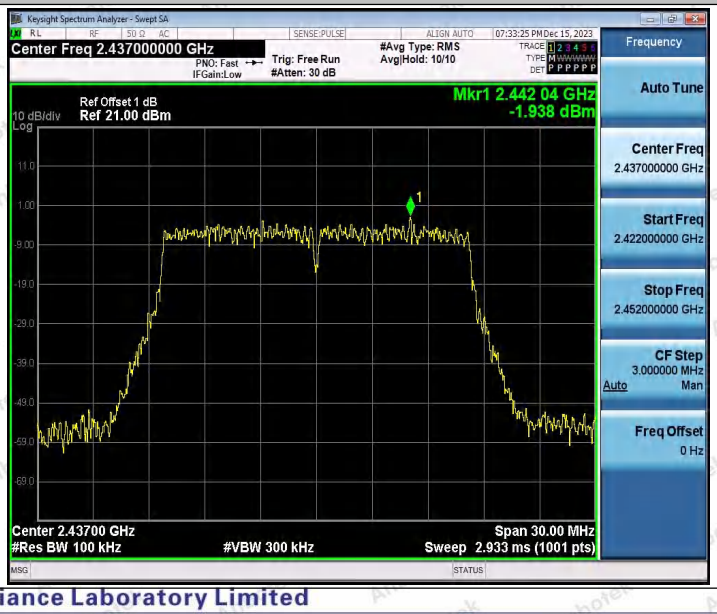
11B_Ant1_2437_30~1000



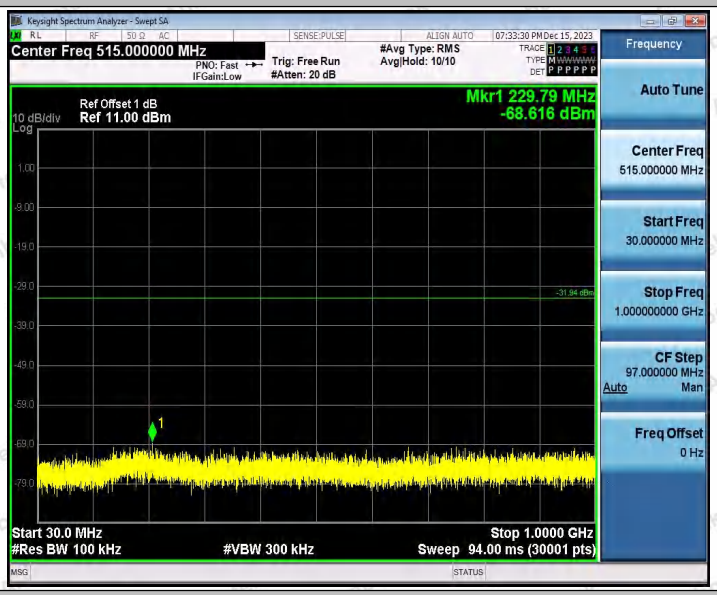
11B_Ant1_2437_1000~26500



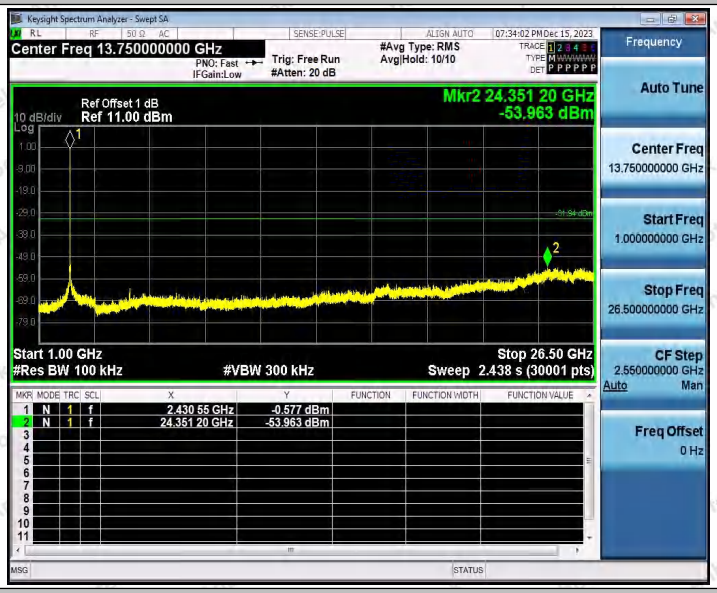
11B_Ant2_2437_0~Reference



11B_Ant2_2437_30~1000

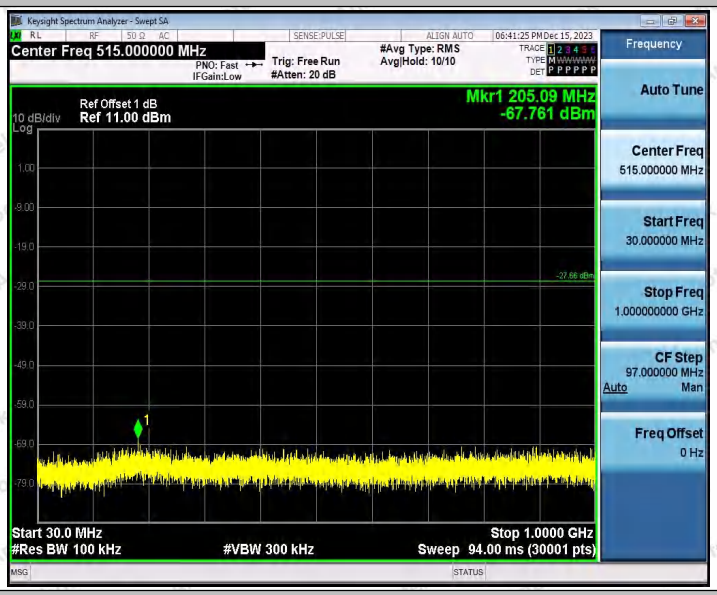


11B_Ant2_2437_1000~26500

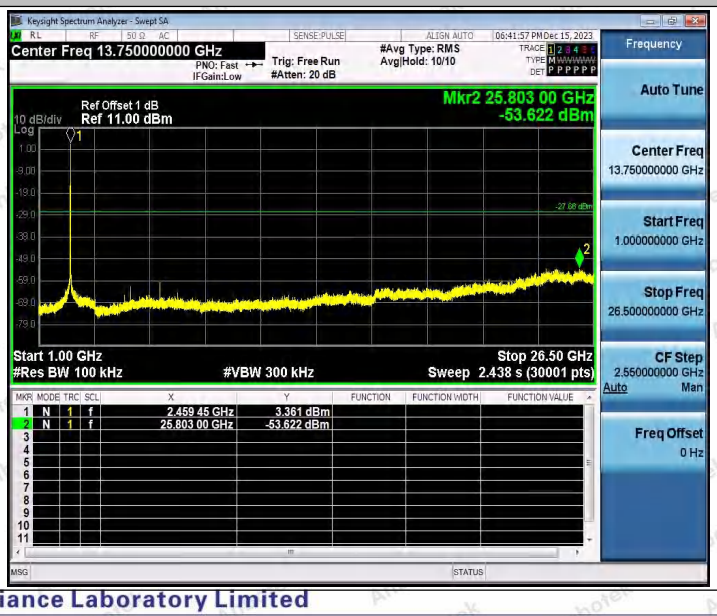


11B_Ant1_2462_0~Reference

11B_Ant1_2462_30~1000

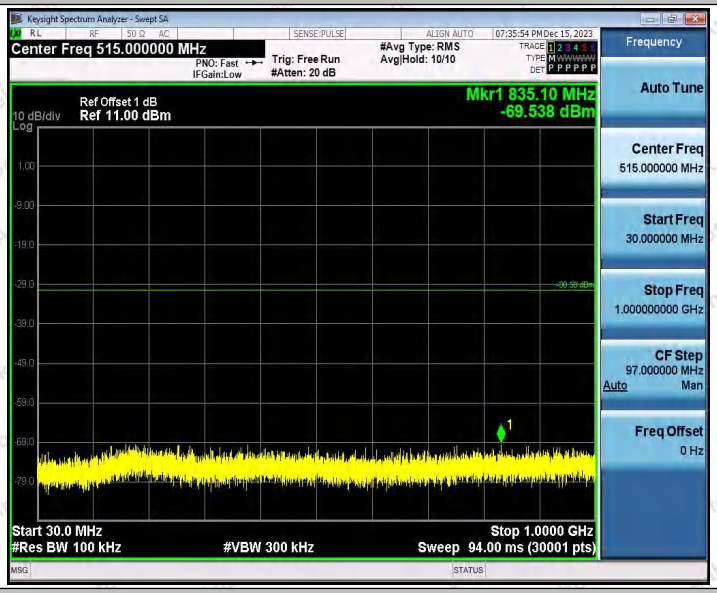


11B_Ant1_2462_1000~26500

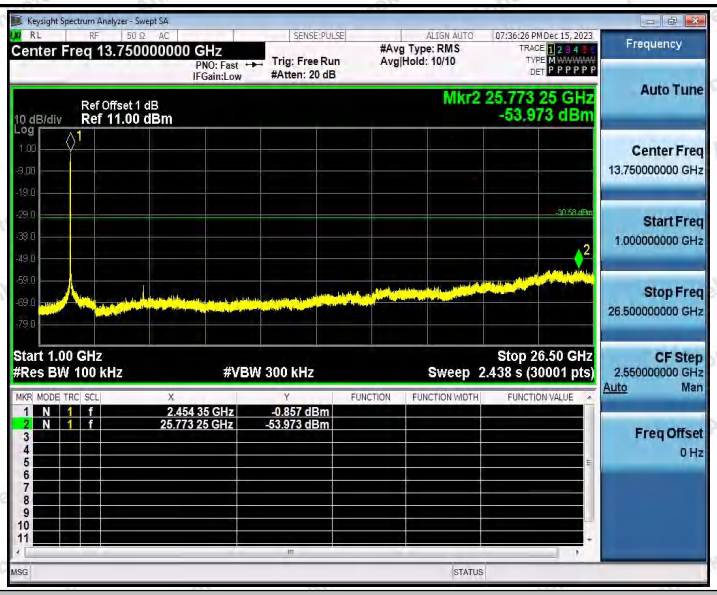


11B_Ant2_2462_0~Reference

11B_Ant2_2462_30~1000

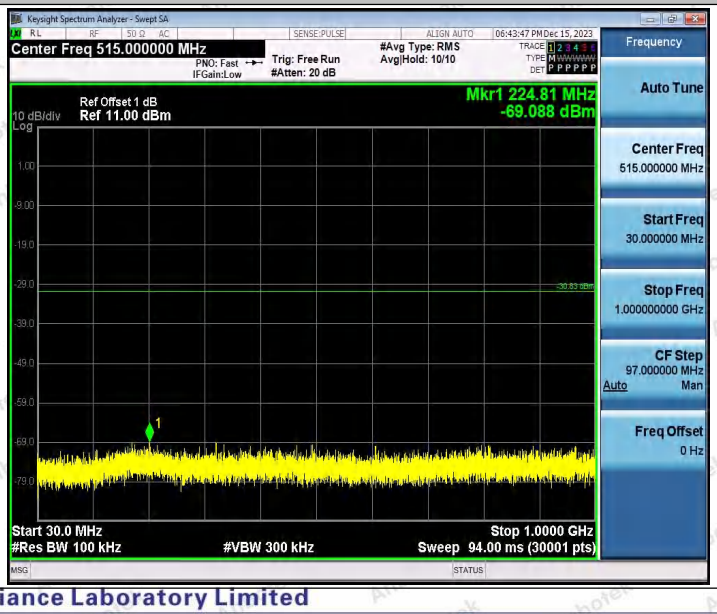


11B_Ant2_2462_1000~26500

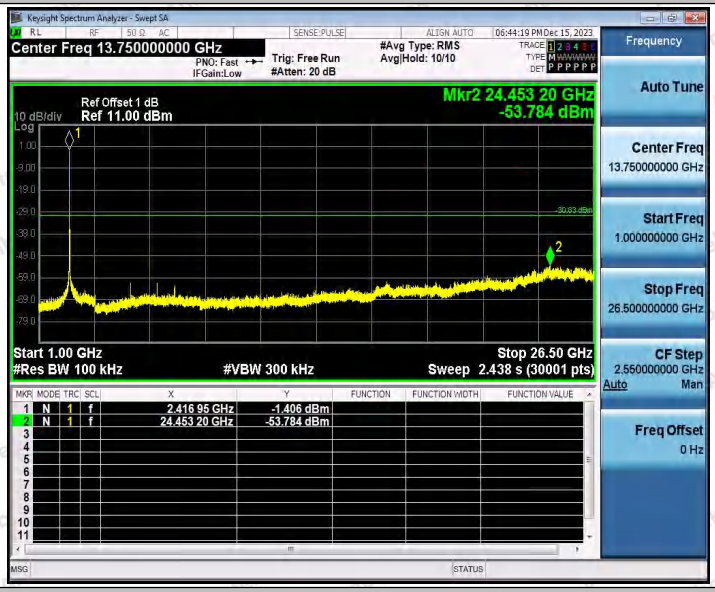


11G_Ant1_2412_0~Reference

11G_Ant1_2412_30~1000

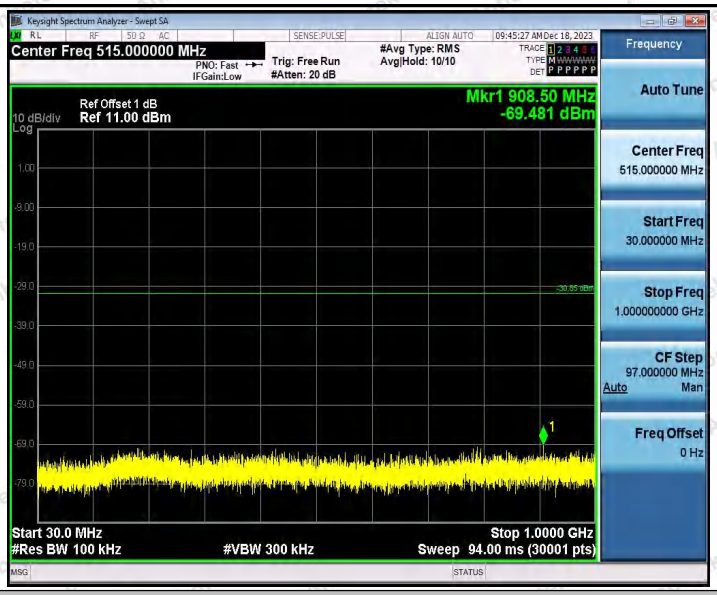


11G_Ant1_2412_1000~26500

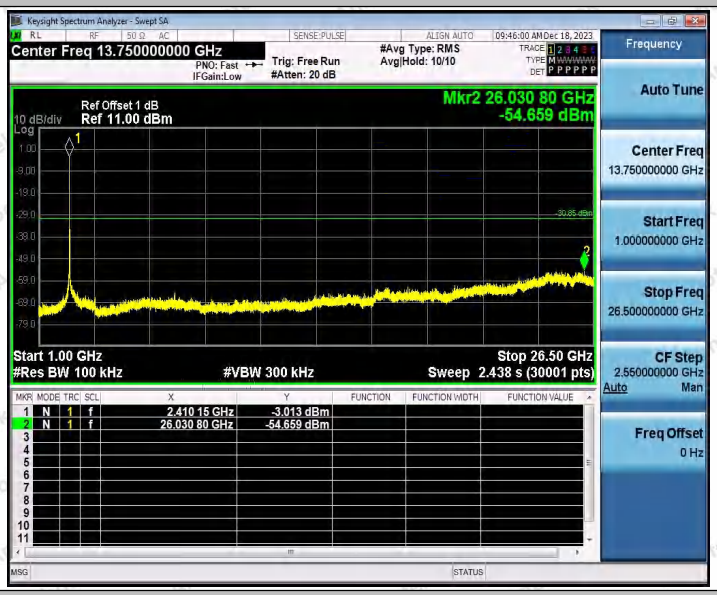


11G_Ant2_2412_0~Reference

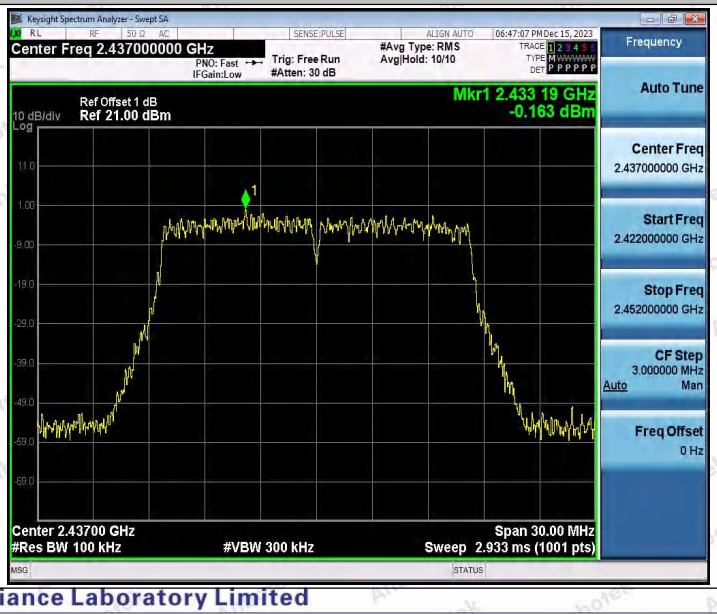
11G_Ant2_2412_30~1000



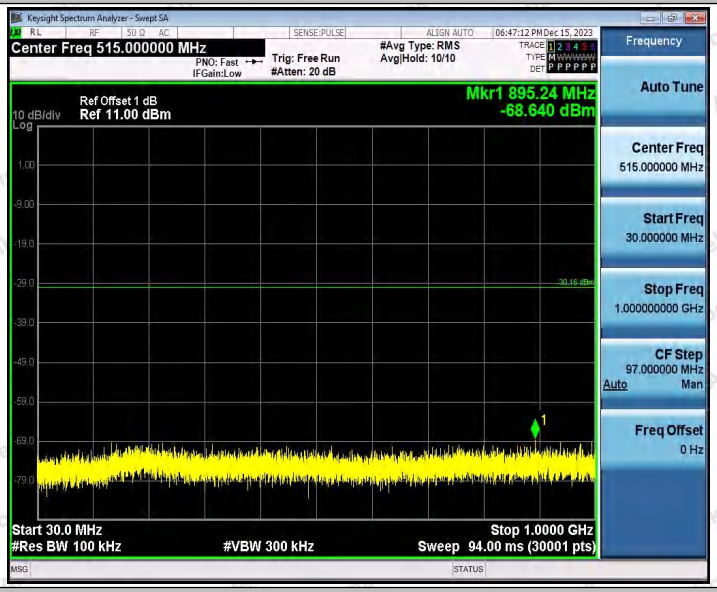
11G_Ant2_2412_1000~26500



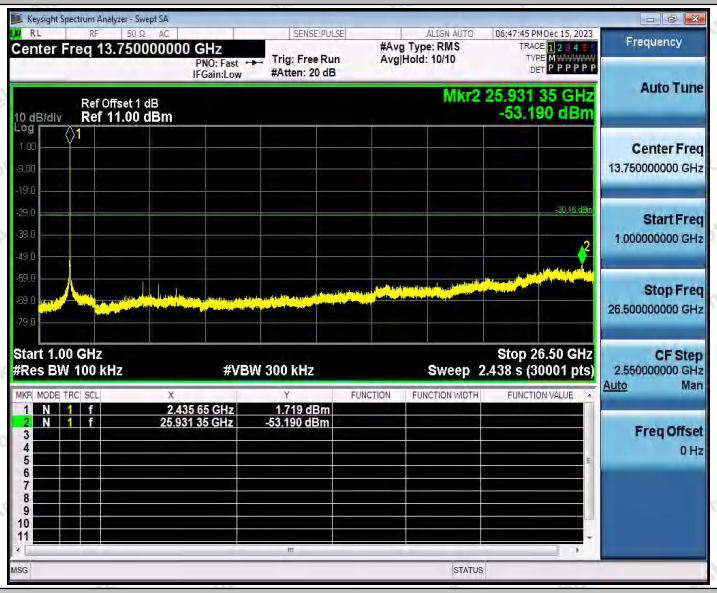
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

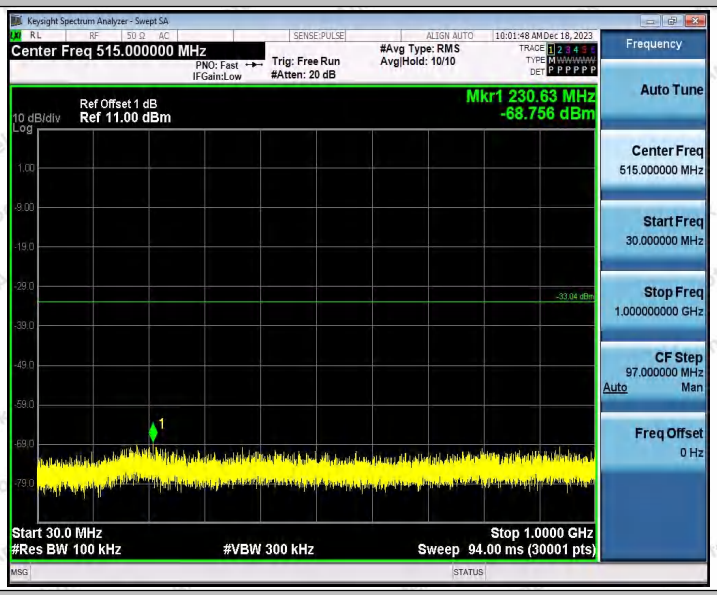


11G_Ant1_2437_1000~26500

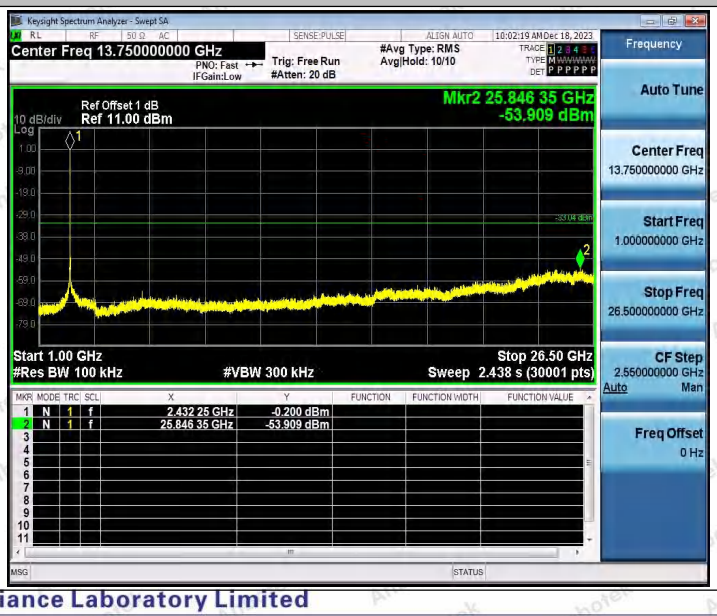


11G_Ant2_2437_0~Reference

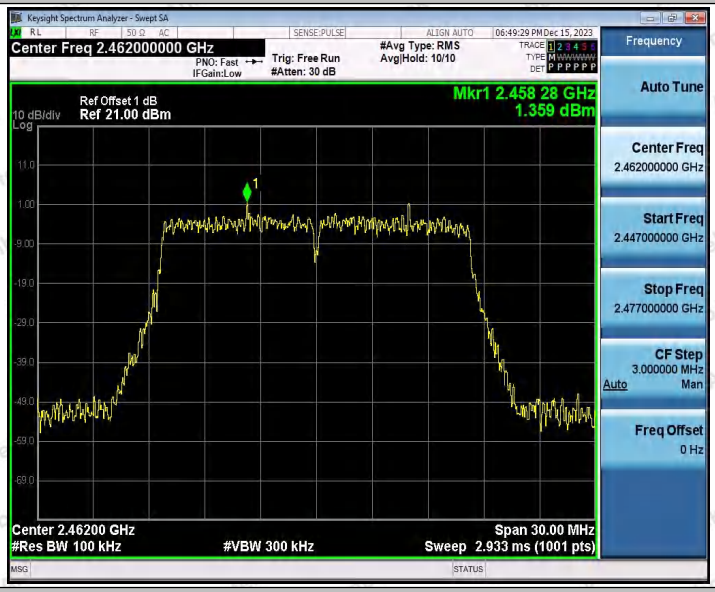
11G_Ant2_2437_30~1000



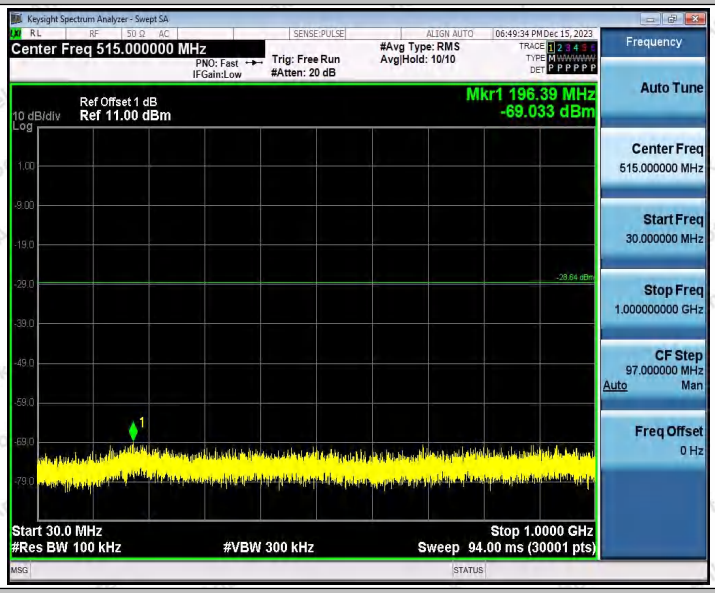
11G_Ant2_2437_1000~26500



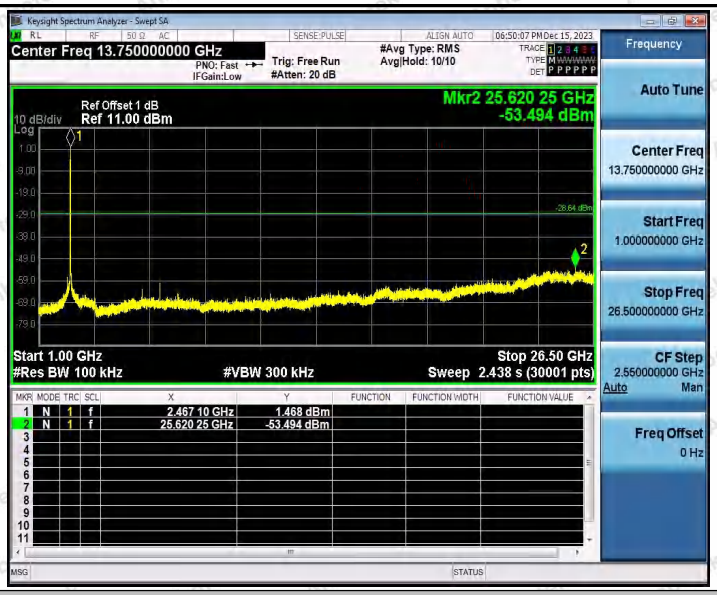
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

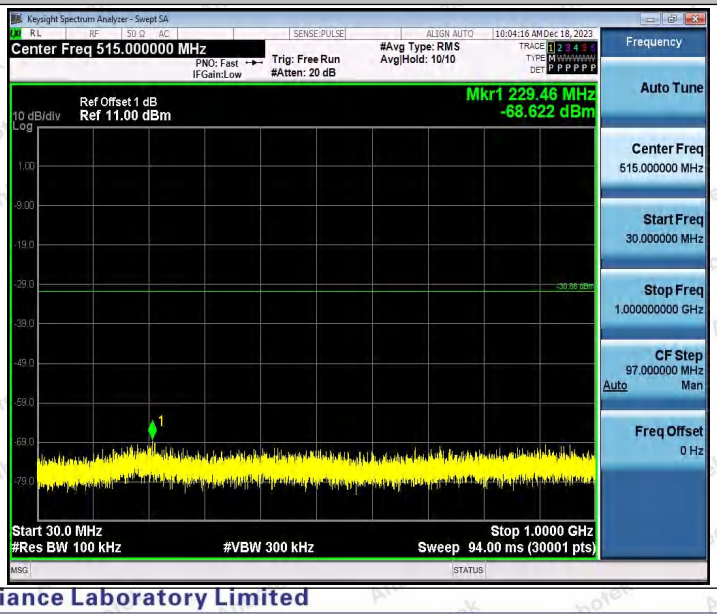


11G_Ant1_2462_1000~26500

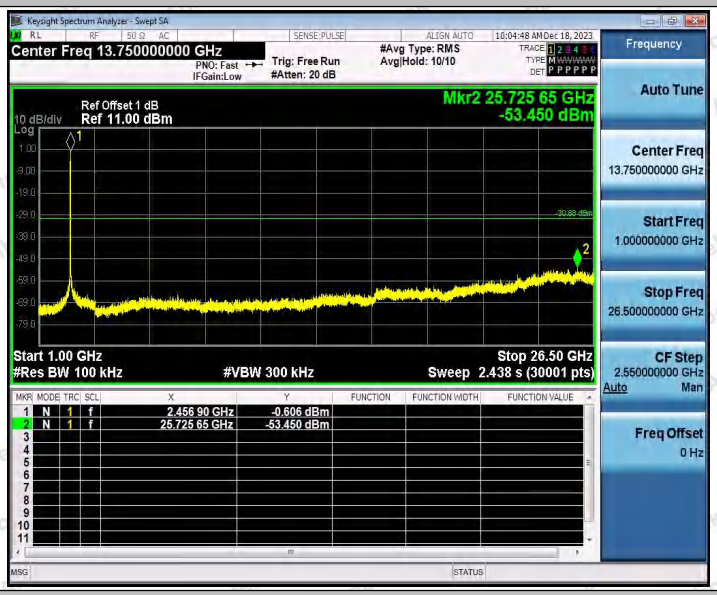


11G_Ant2_2462_0~Reference

11G_Ant2_2462_30~1000

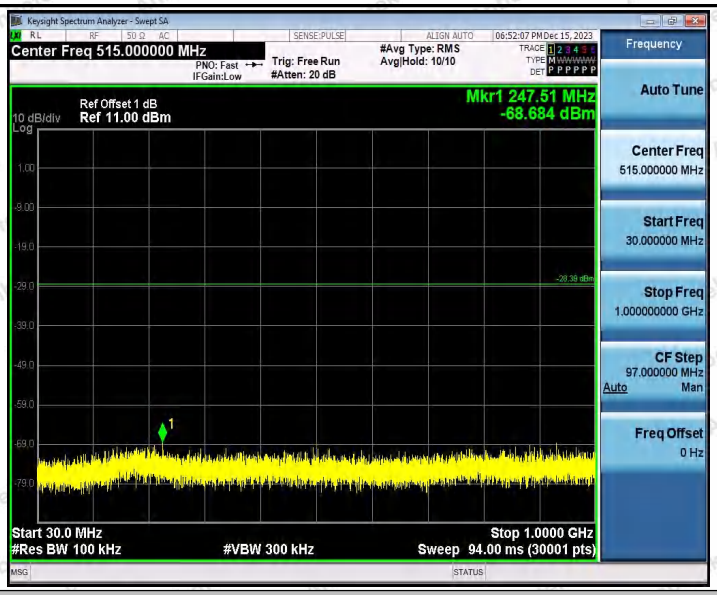


11G_Ant2_2462_1000~26500

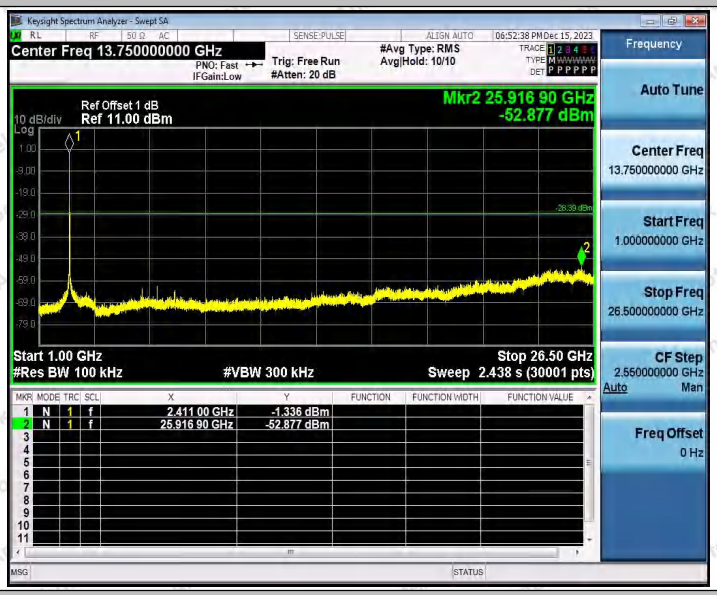


11N20SISO_Ant1_2412_0~Reference

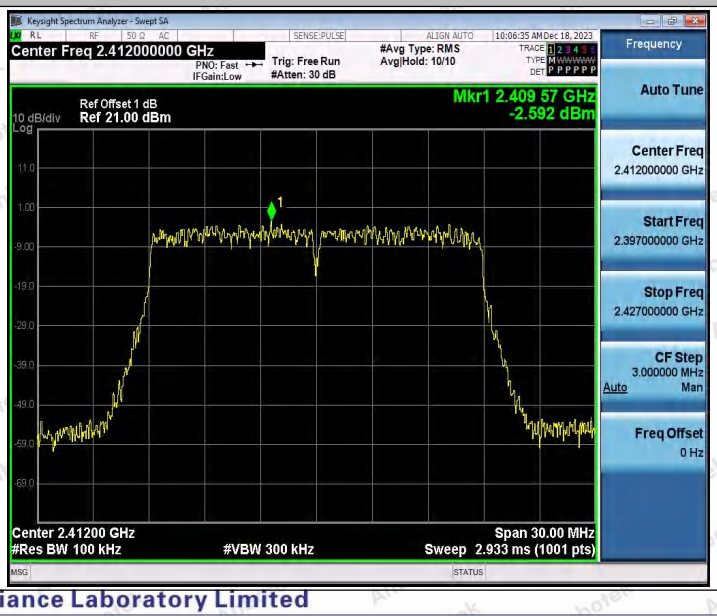
11N20SISO_Ant1_2412_30~1000



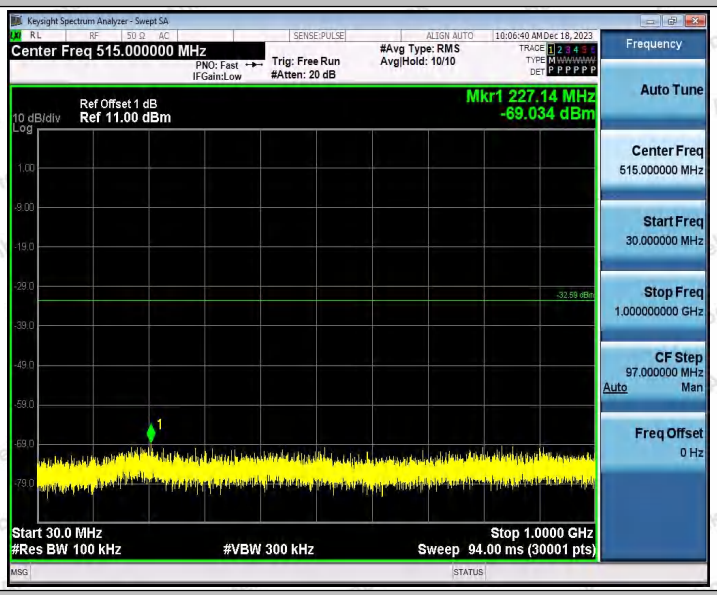
11N20SISO_Ant1_2412_1000~26500



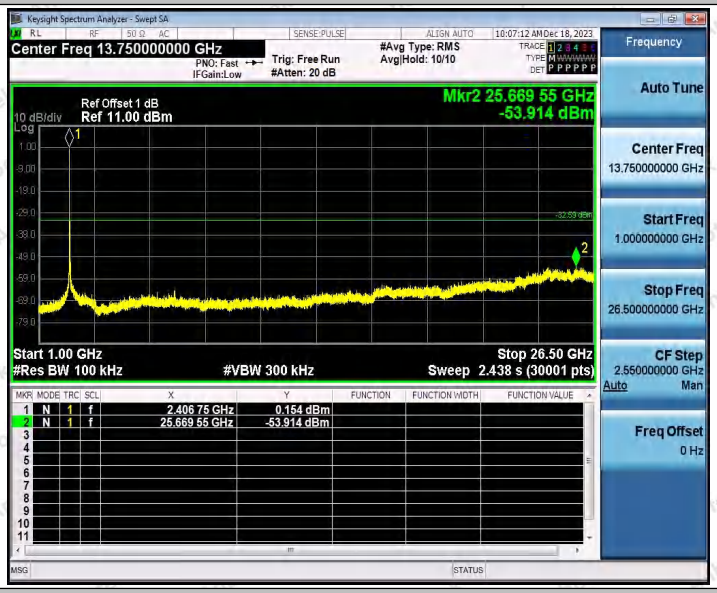
11N20SISO_Ant2_2412_0~Reference



11N20SISO_Ant2_2412_30~1000

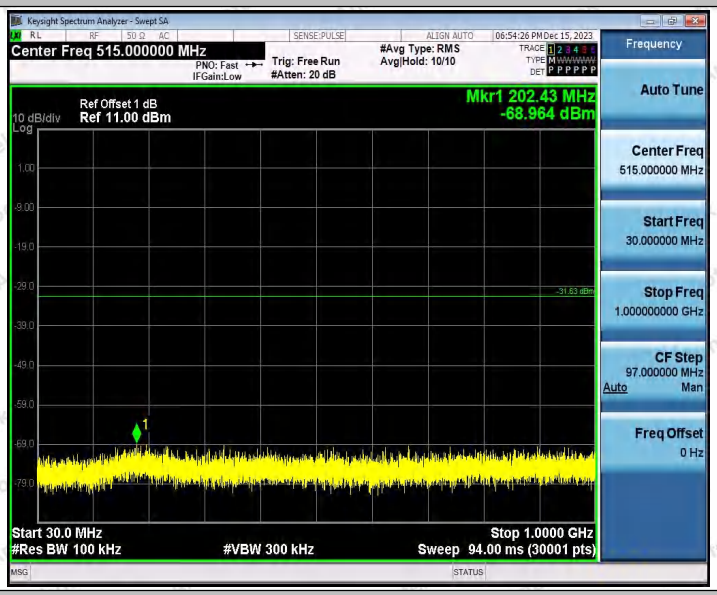


11N20SISO_Ant2_2412_1000~26500

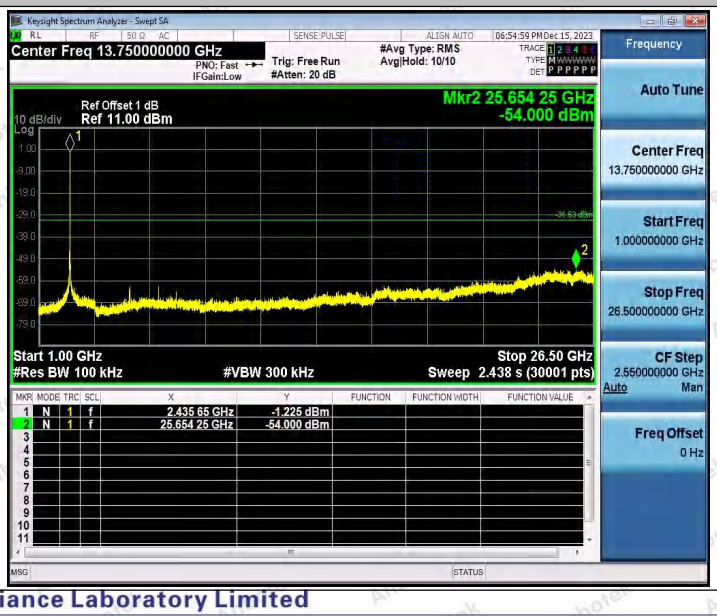


11N20SISO_Ant1_2437_0~Reference

11N20SISO_Ant1_2437_30~1000

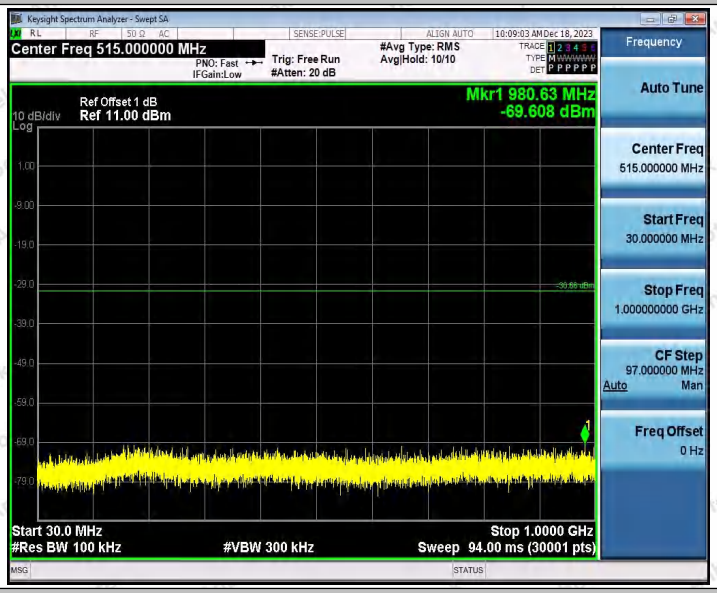


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant2_2437_0~Reference

11N20SISO_Ant2_2437_30~1000



11N20SISO_Ant2_2437_1000~26500