

Appendix Test Data

Report No.:	18220WC30266902	Test Sample No.:	1-2-2
Start Test Date:	2023.12.22	Finish Test Date:	2023.12.23
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.1°C	Relative Humidity:	42%
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	10.040	2406.960	2417.000	0.5	PASS
		2437	9.560	2432.440	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.800	2403.080	2420.880	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	36.320	2418.840	2455.160	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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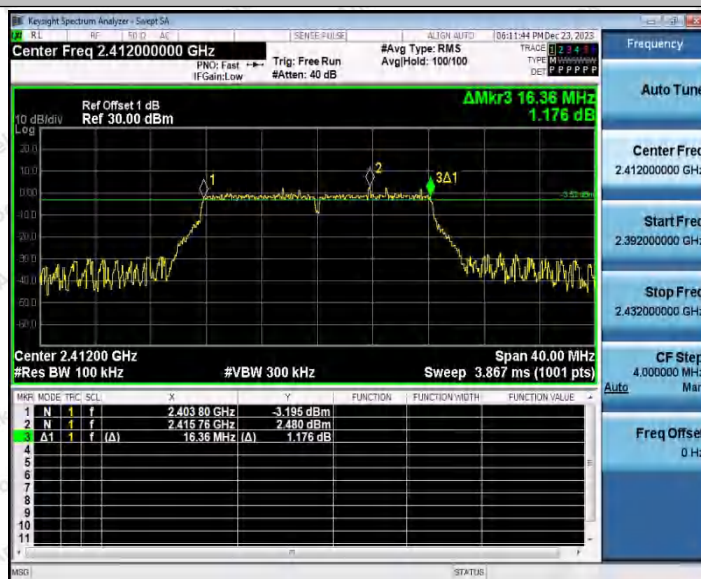
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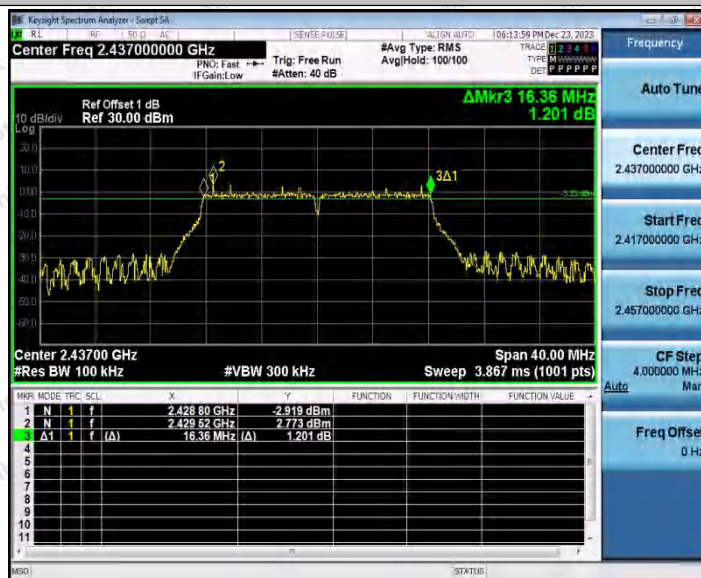




11G_Ant1_2412



11G_Ant1_2437



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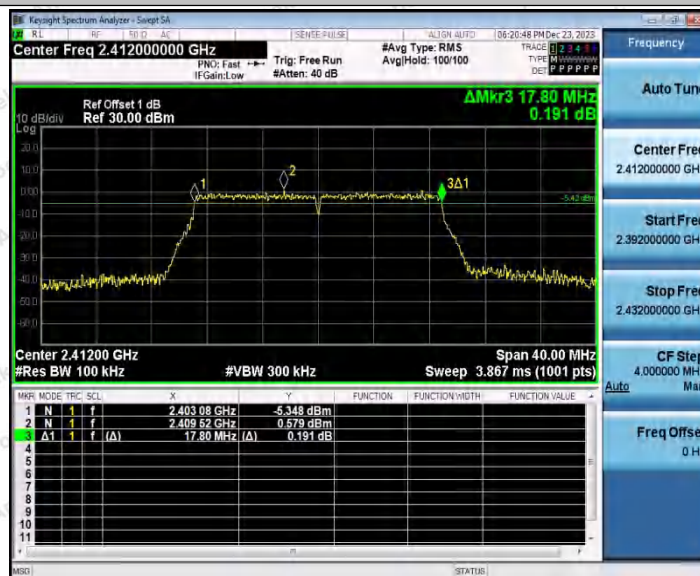
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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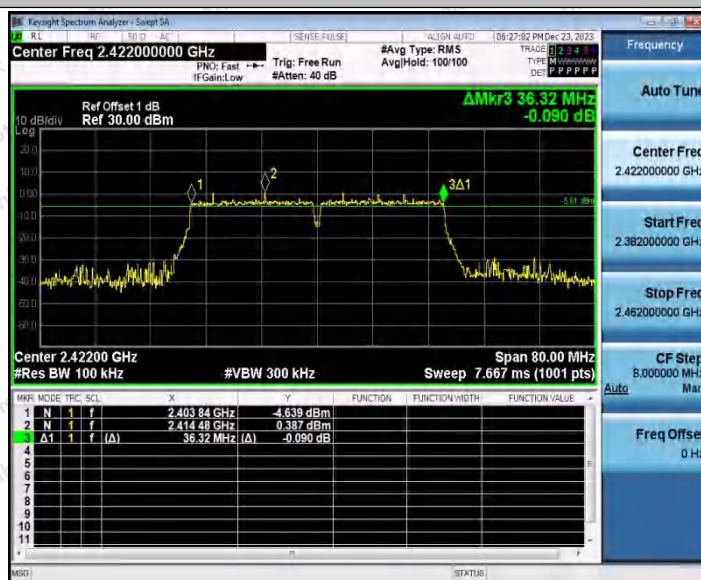




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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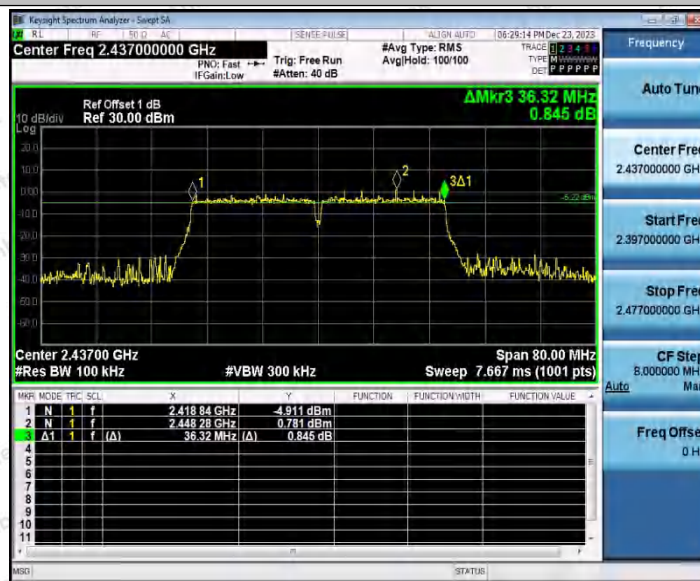
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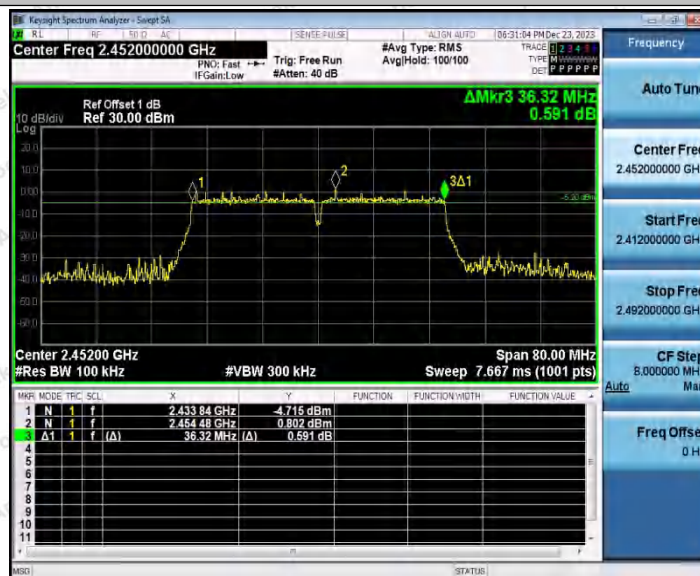
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.110	2404.4667	2419.5767	---	---
		2437	15.115	2429.4650	2444.5800	---	---
		2462	15.113	2454.4664	2469.5794	---	---
11G	Ant1	2412	17.328	2403.3525	2420.6805	---	---
		2437	17.320	2428.3979	2445.7179	---	---
		2462	17.217	2453.4001	2470.6171	---	---
11N20SISO	Ant1	2412	18.199	2402.9287	2421.1277	---	---
		2437	18.160	2427.9429	2446.1029	---	---
		2462	18.206	2452.9367	2471.1427	---	---
11N40SISO	Ant1	2422	36.714	2403.7136	2440.4276	---	---
		2437	36.691	2418.7066	2455.3976	---	---
		2452	36.641	2433.7808	2470.4218	---	---



Test Graphs



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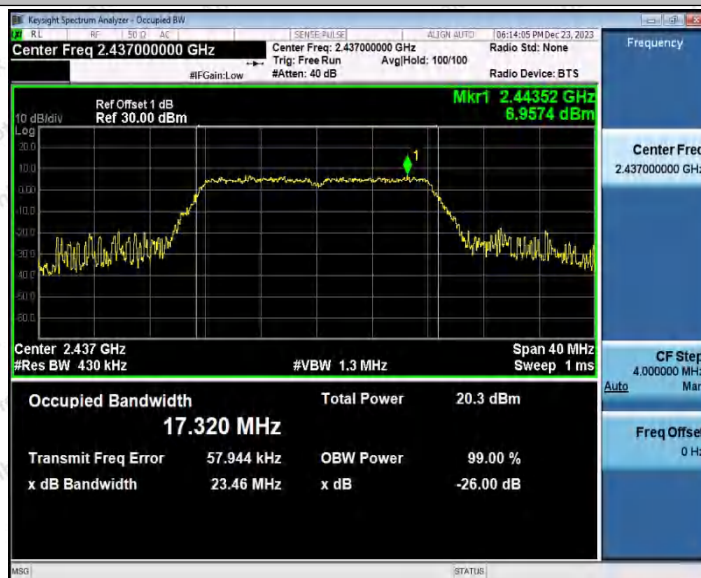




11G_Ant1_2412



11G_Ant1_2437



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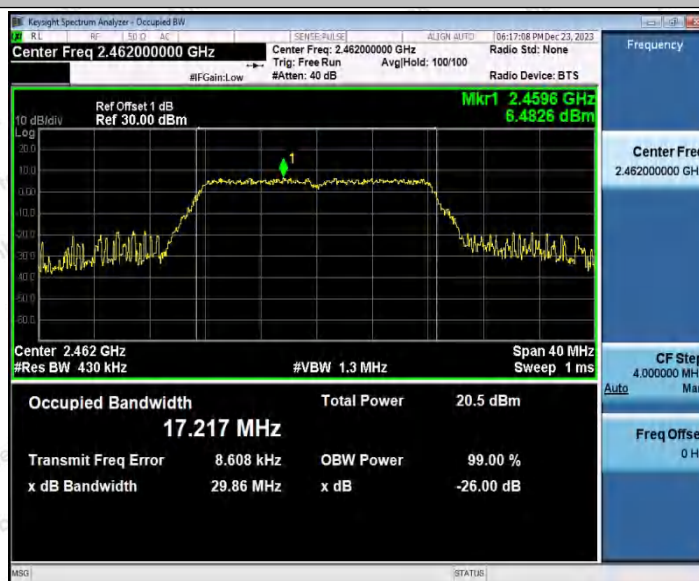
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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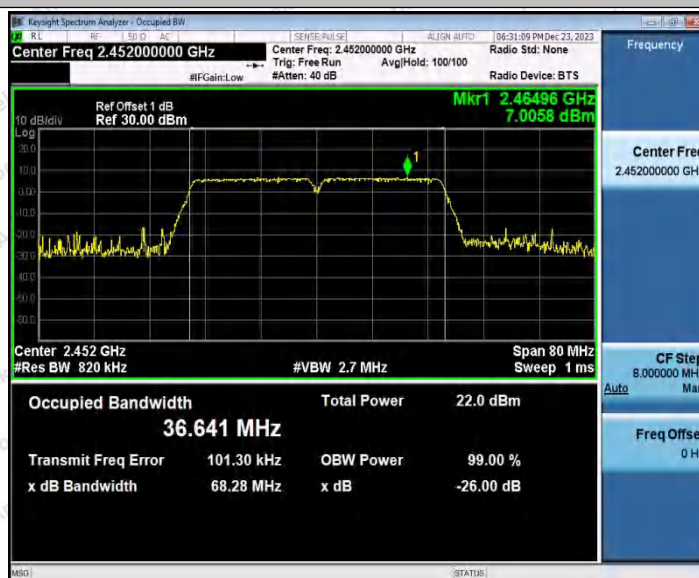
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.25	≤30.00
		2437	14.40	≤30.00
		2462	14.68	≤30.00
11G	Ant1	2412	14.05	≤30.00
		2437	14.23	≤30.00
		2462	14.46	≤30.00
11N20SISO	Ant1	2412	14.06	≤30.00
		2437	14.22	≤30.00
		2462	14.47	≤30.00
11N40SISO	Ant1	2422	14.90	≤30.00
		2437	15.01	≤30.00
		2452	15.12	≤30.00

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



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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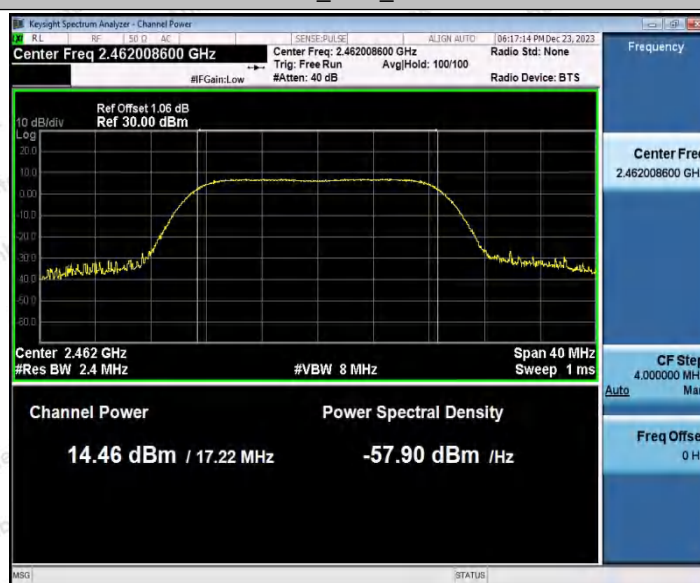
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

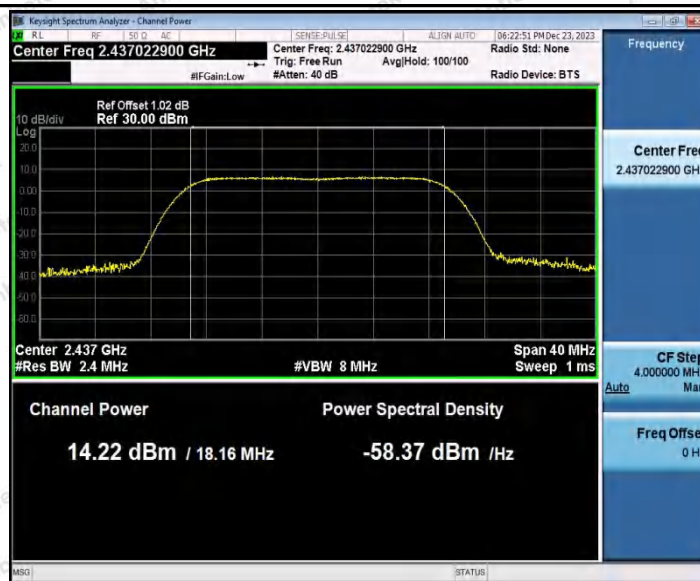
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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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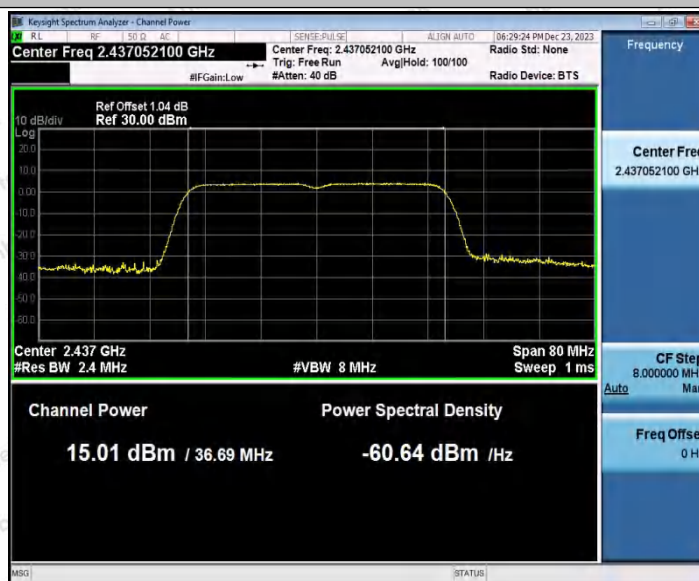
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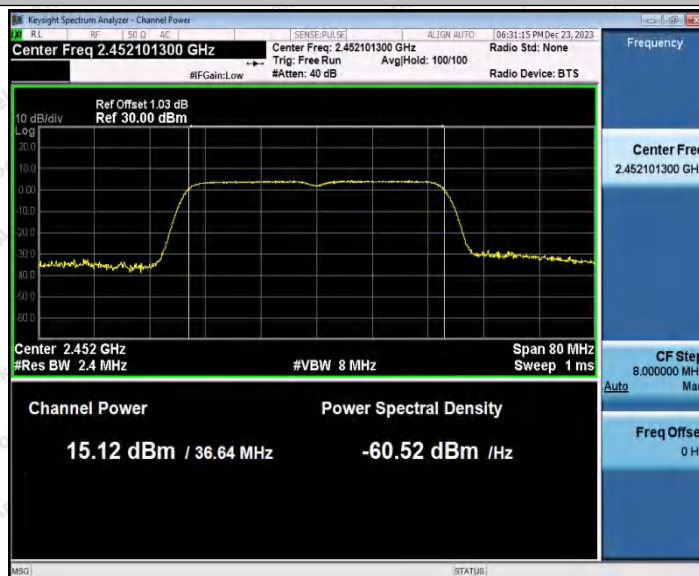
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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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	-7.67	-17.67	≤8.00	PASS
		2437	-7.45	-17.45	≤8.00	PASS
		2462	-7.15	-17.15	≤8.00	PASS
11G	Ant1	2412	-10.37	-20.37	≤8.00	PASS
		2437	-10.16	-20.16	≤8.00	PASS
		2462	-9.76	-19.76	≤8.00	PASS
11N20SISO	Ant1	2412	-10.83	-20.83	≤8.00	PASS
		2437	-10.75	-20.75	≤8.00	PASS
		2462	-10.33	-20.33	≤8.00	PASS
11N40SISO	Ant1	2422	-12.68	-22.68	≤8.00	PASS
		2437	-12.76	-22.76	≤8.00	PASS
		2452	-12.65	-22.65	≤8.00	PASS

Note:

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



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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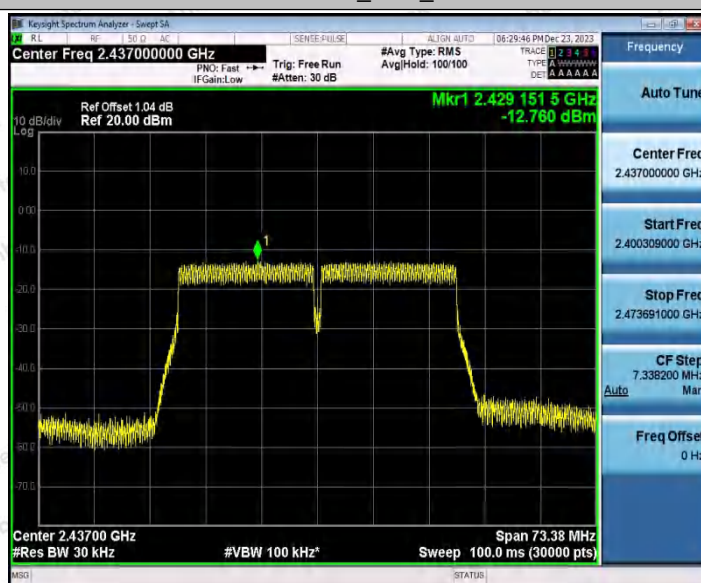
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.58	-29.52	≤-25.43	PASS
		High	2462	4.89	-48.07	≤-25.11	PASS
11G	Ant1	Low	2412	2.59	-28.96	≤-27.41	PASS
		High	2462	3.16	-38.37	≤-26.84	PASS
11N20SISO	Ant1	Low	2412	2.38	-35.24	≤-27.62	PASS
		High	2462	1.85	-36	≤-28.15	PASS
11N40SISO	Ant1	Low	2422	0.29	-30.05	≤-29.71	PASS
		High	2452	1.09	-29.57	≤-28.92	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-64.99	≤-26.3	PASS
			1000~26500	3.70	-51.92	≤-26.3	PASS
		2437	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-60.45	≤-25.85	PASS
			1000~26500	4.15	-52.14	≤-25.85	PASS
		2462	Reference	3.91	3.91	---	PASS
			30~1000	3.91	-68.73	≤-26.09	PASS
			1000~26500	3.91	-51.98	≤-26.09	PASS
11G	Ant1	2412	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-68.3	≤-27.52	PASS
			1000~26500	2.48	-52.01	≤-27.52	PASS
		2437	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-68.1	≤-30.54	PASS
			1000~26500	-0.54	-51.77	≤-30.54	PASS
		2462	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-68.21	≤-30.48	PASS
			1000~26500	-0.48	-52.12	≤-30.48	PASS
11N20SISO	Ant1	2412	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-67.94	≤-30.68	PASS
			1000~26500	-0.68	-51.83	≤-30.68	PASS
		2437	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-68.2	≤-30.55	PASS
			1000~26500	-0.55	-52.17	≤-30.55	PASS
		2462	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-64.66	≤-27.35	PASS
			1000~26500	2.65	-52.04	≤-27.35	PASS
11N40SISO	Ant1	2422	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-64.15	≤-32.3	PASS
			1000~26500	-2.30	-53.59	≤-32.3	PASS
		2437	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-68.63	≤-31.56	PASS
			1000~26500	-1.56	-53.69	≤-31.56	PASS
		2452	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-68.62	≤-31.69	PASS
			1000~26500	-1.69	-53.55	≤-31.69	PASS

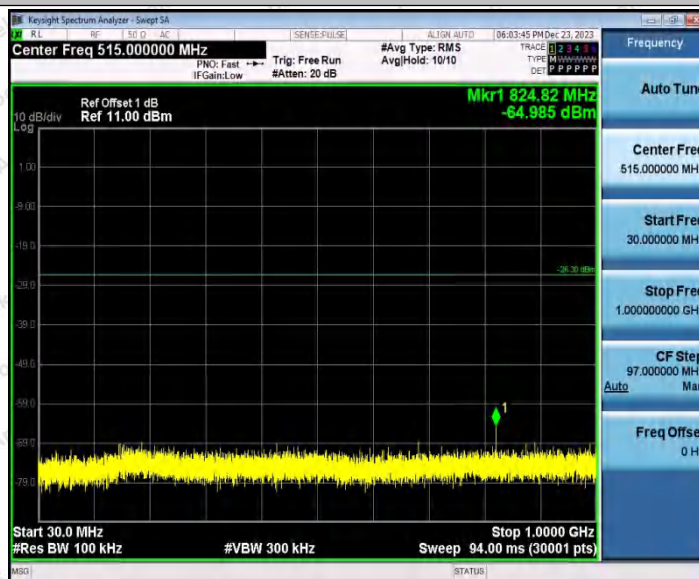


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

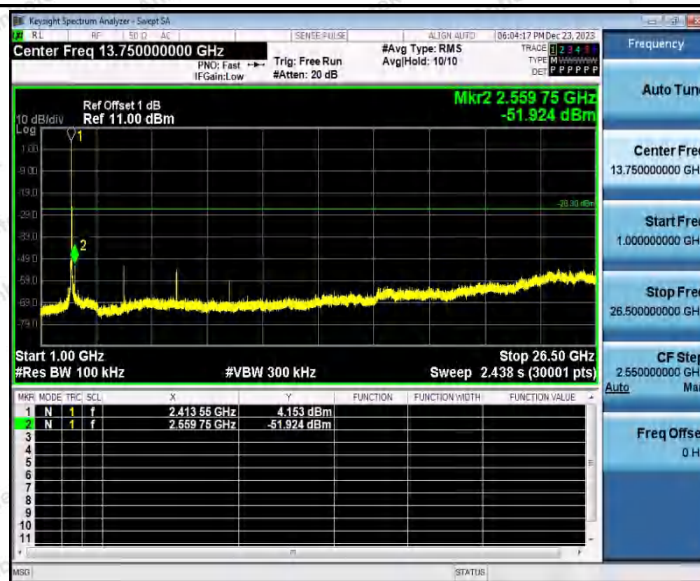
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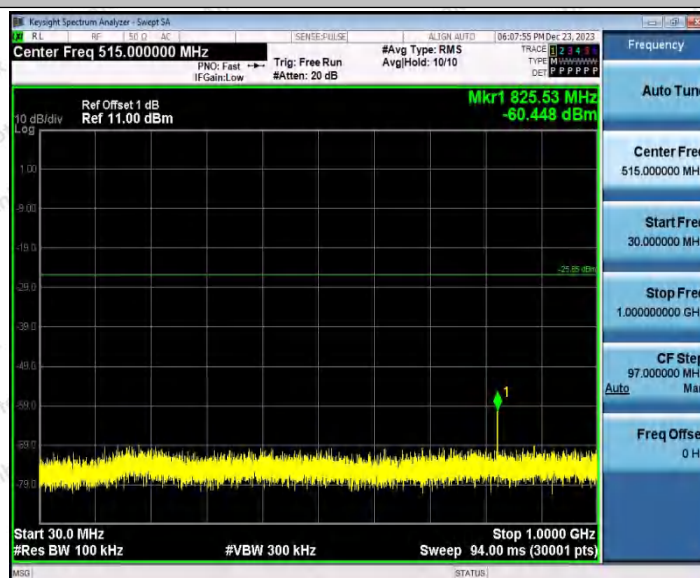




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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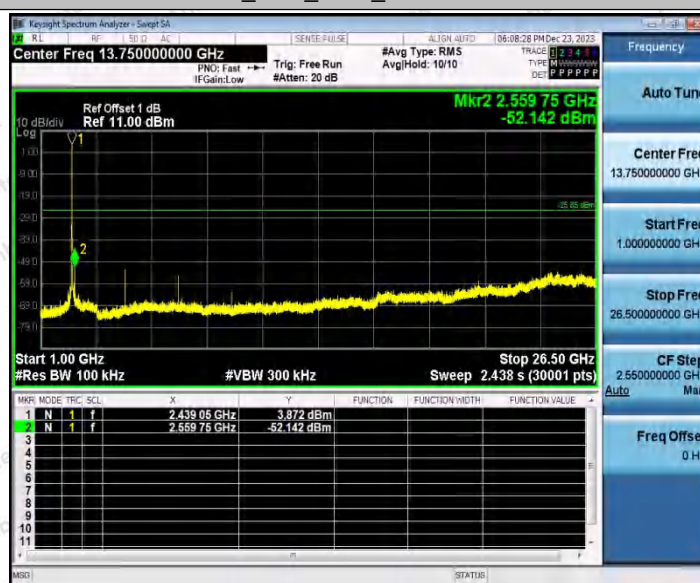
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

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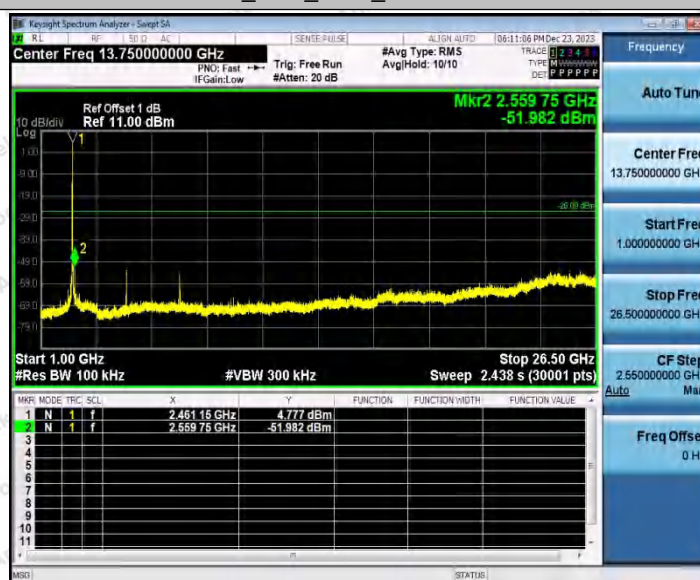


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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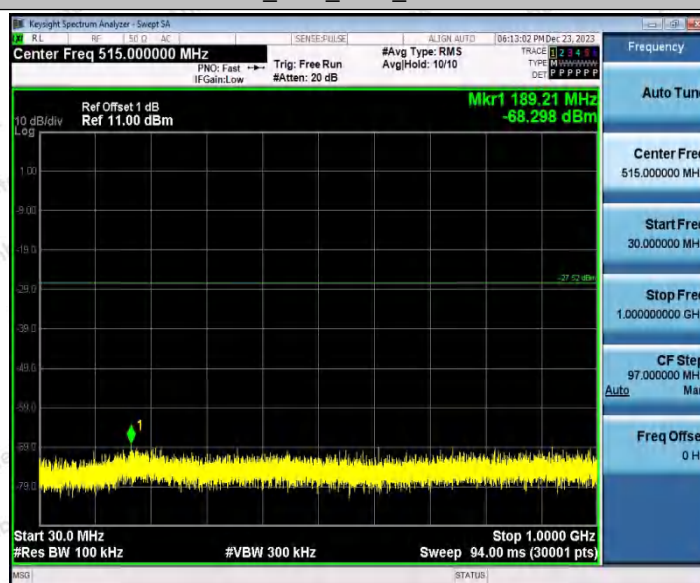
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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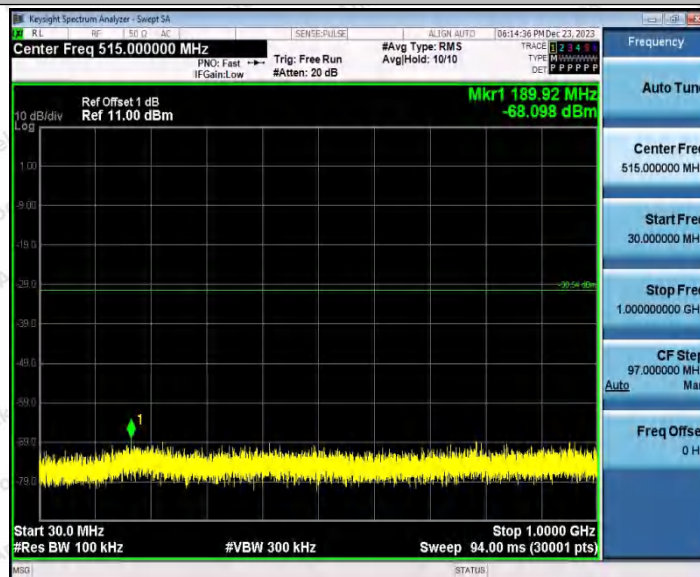


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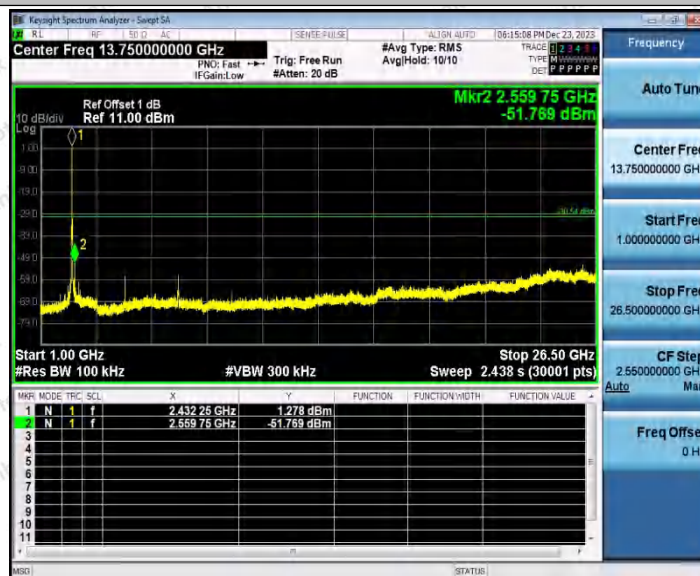




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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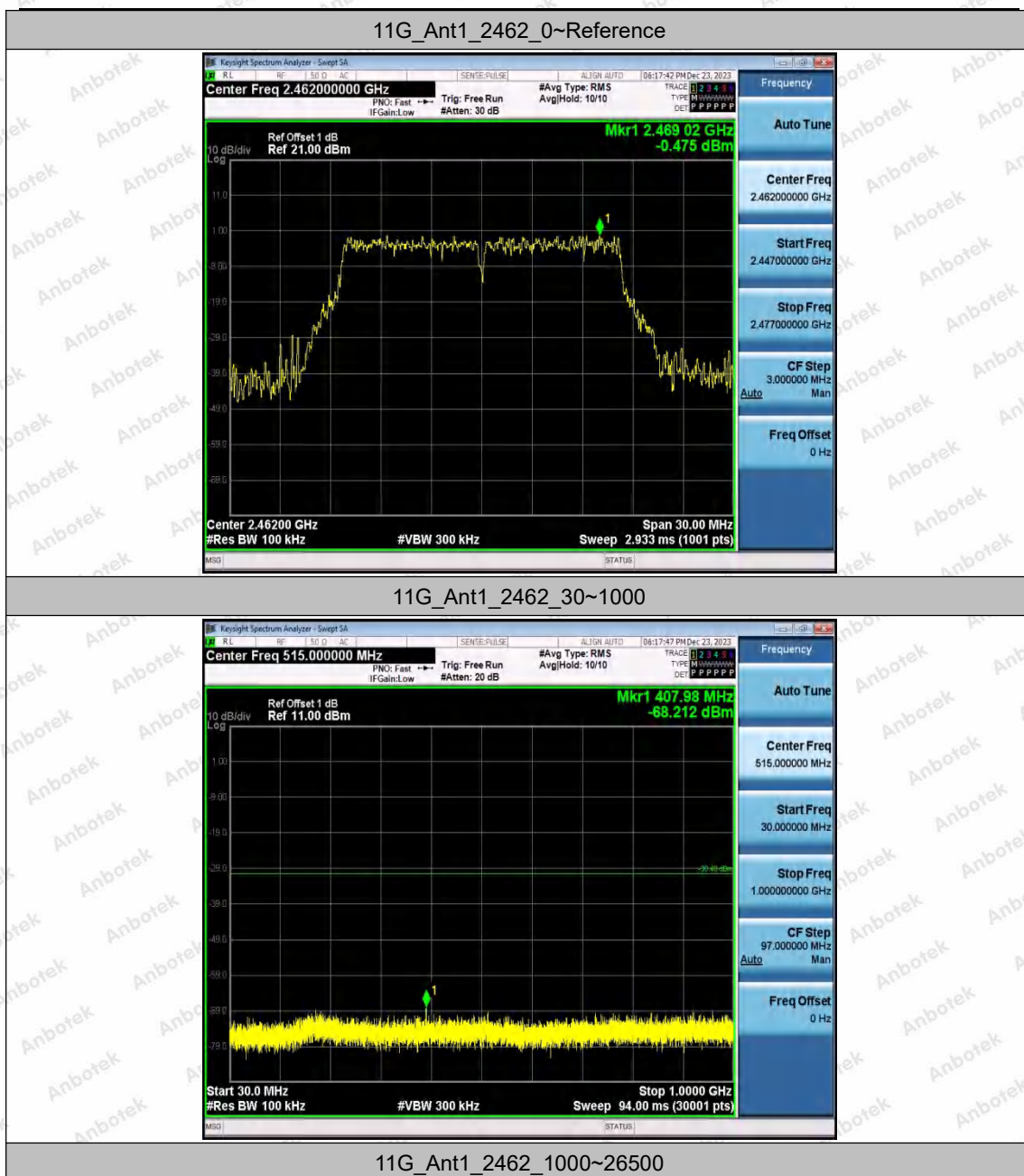


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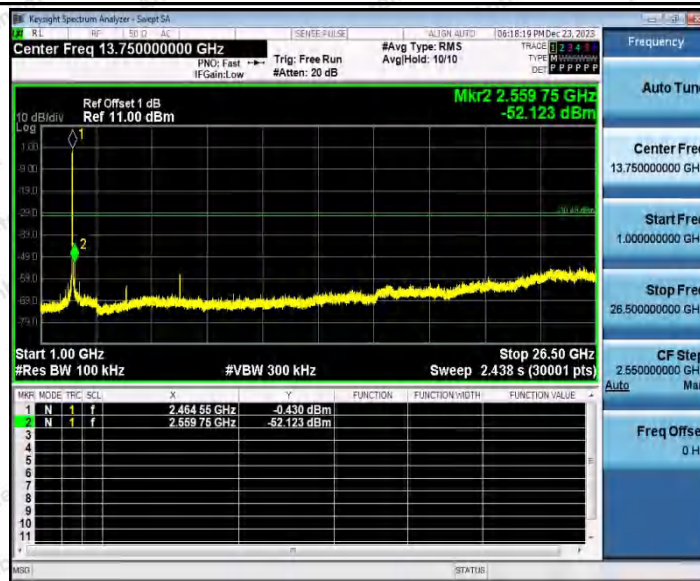
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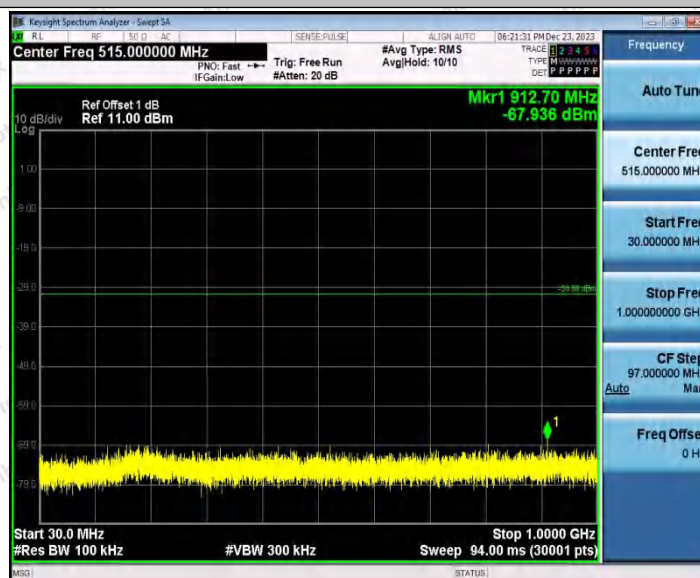




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



Shenzhen Anbotek Compliance Laboratory Limited

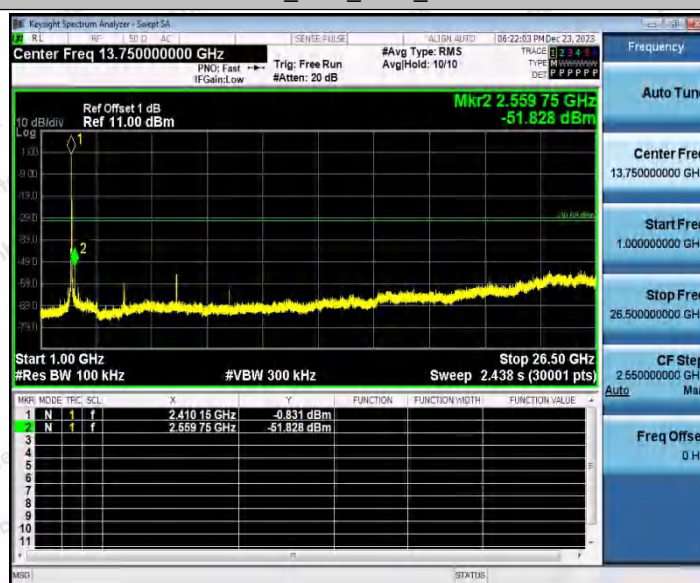
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

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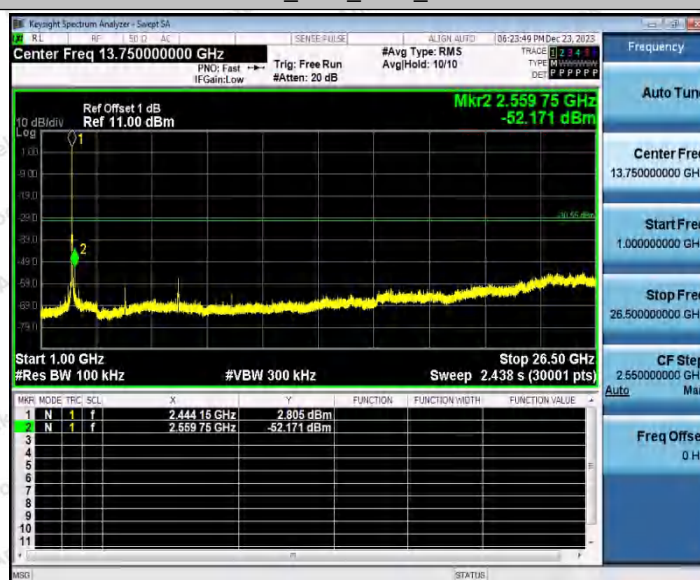


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



Shenzhen Anbotek Compliance Laboratory Limited

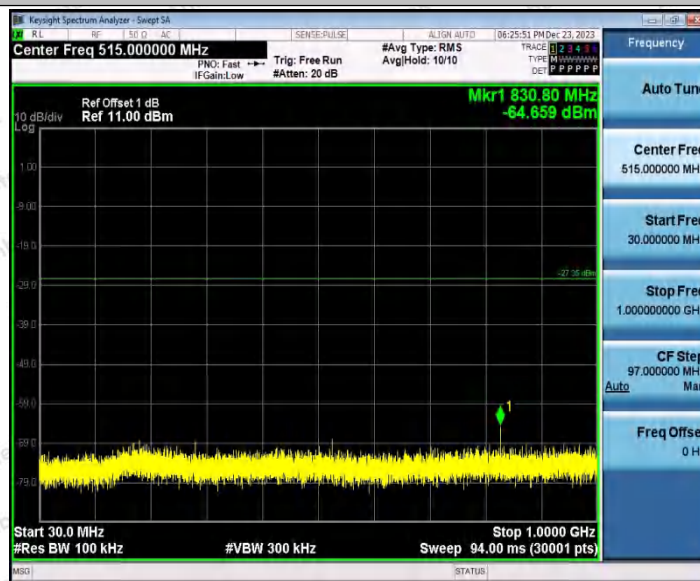
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



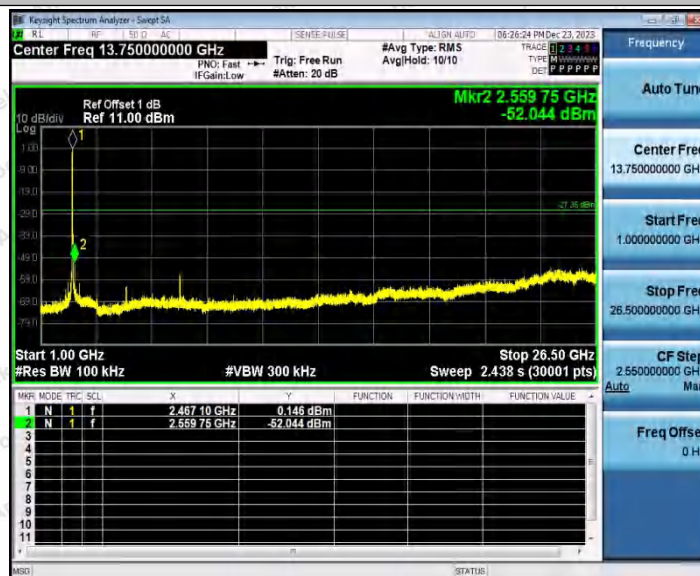
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

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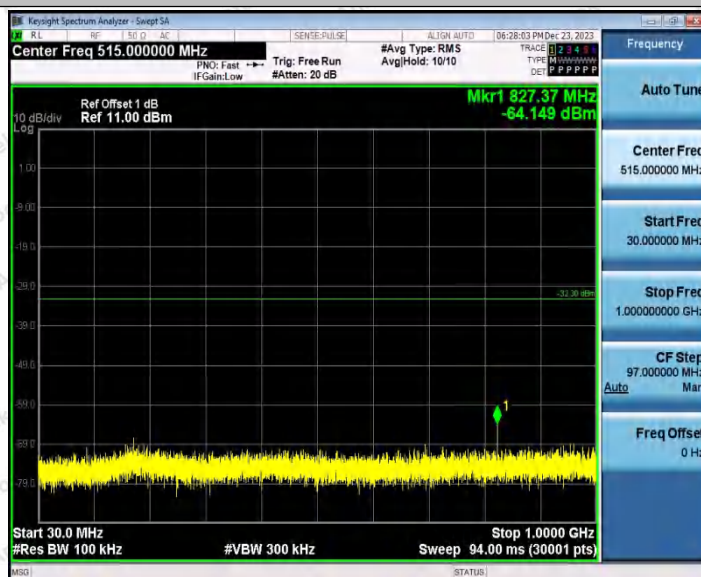


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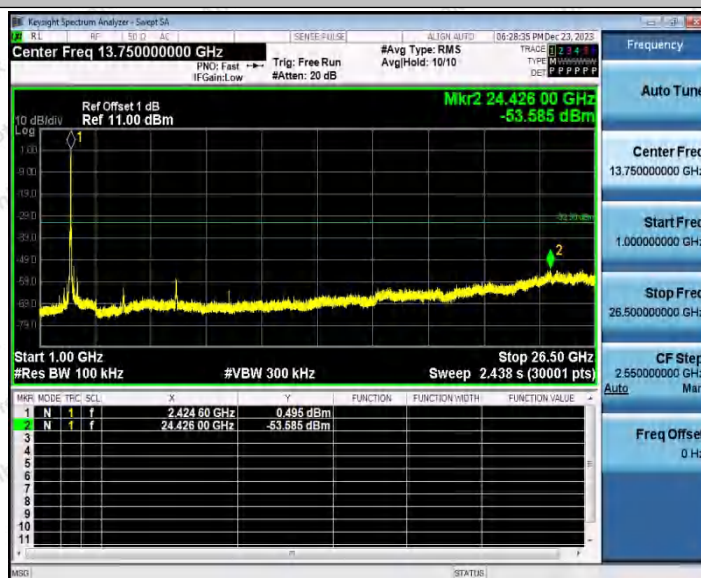




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



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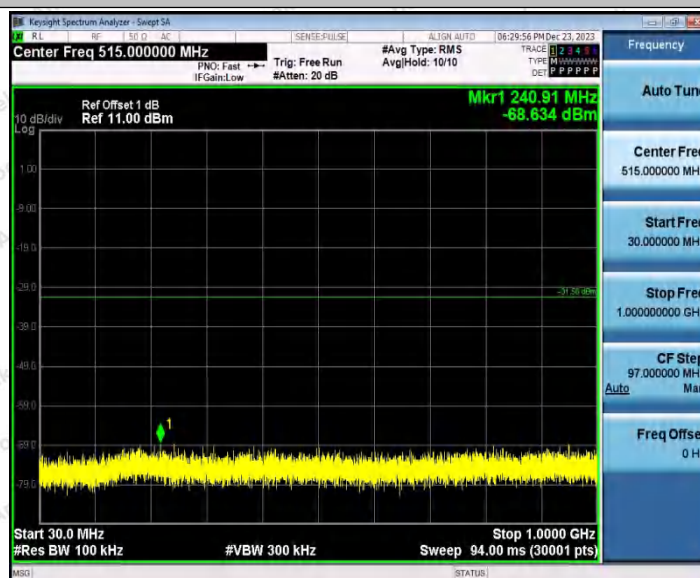
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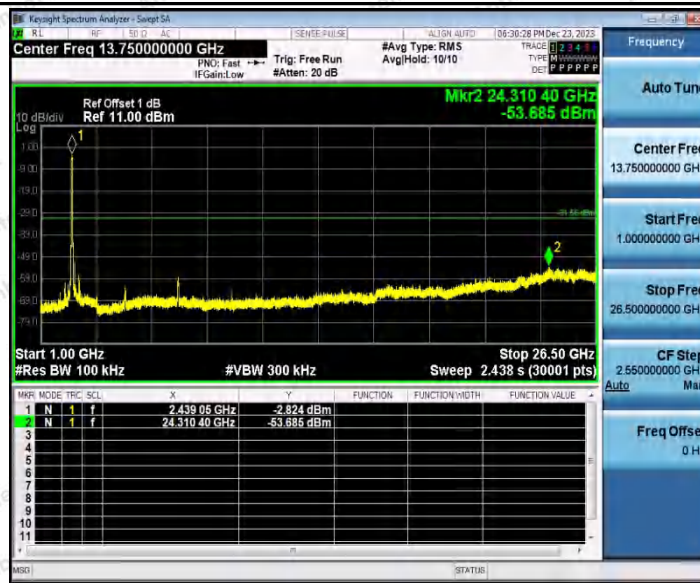
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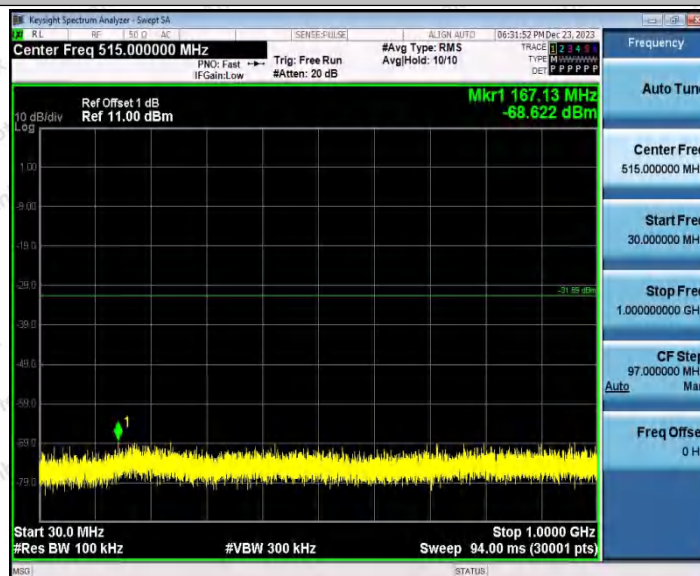




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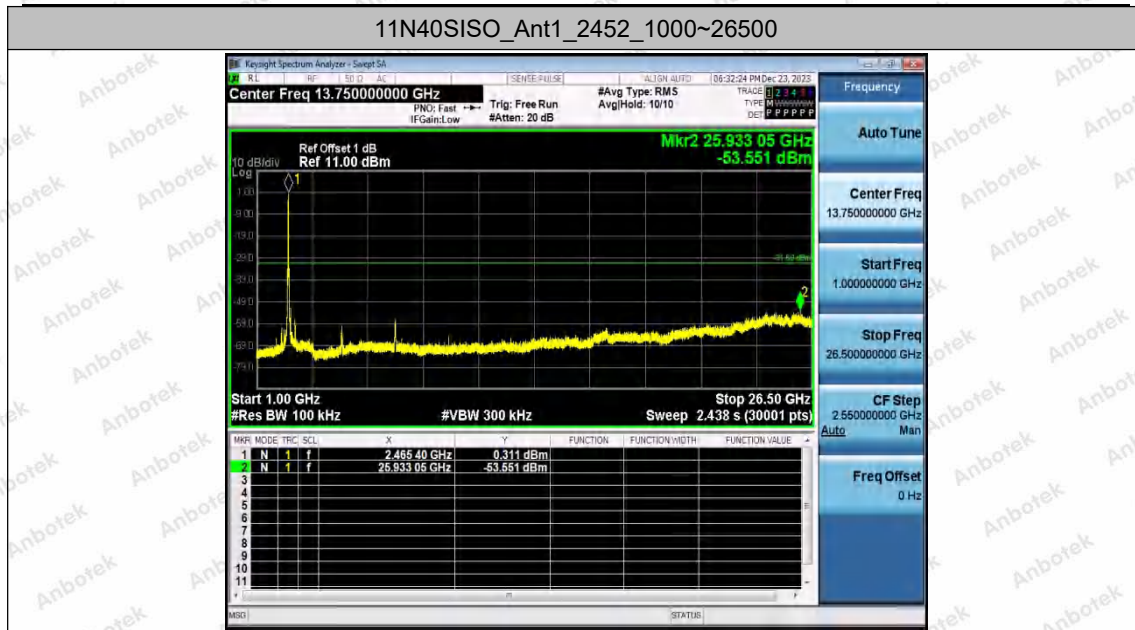
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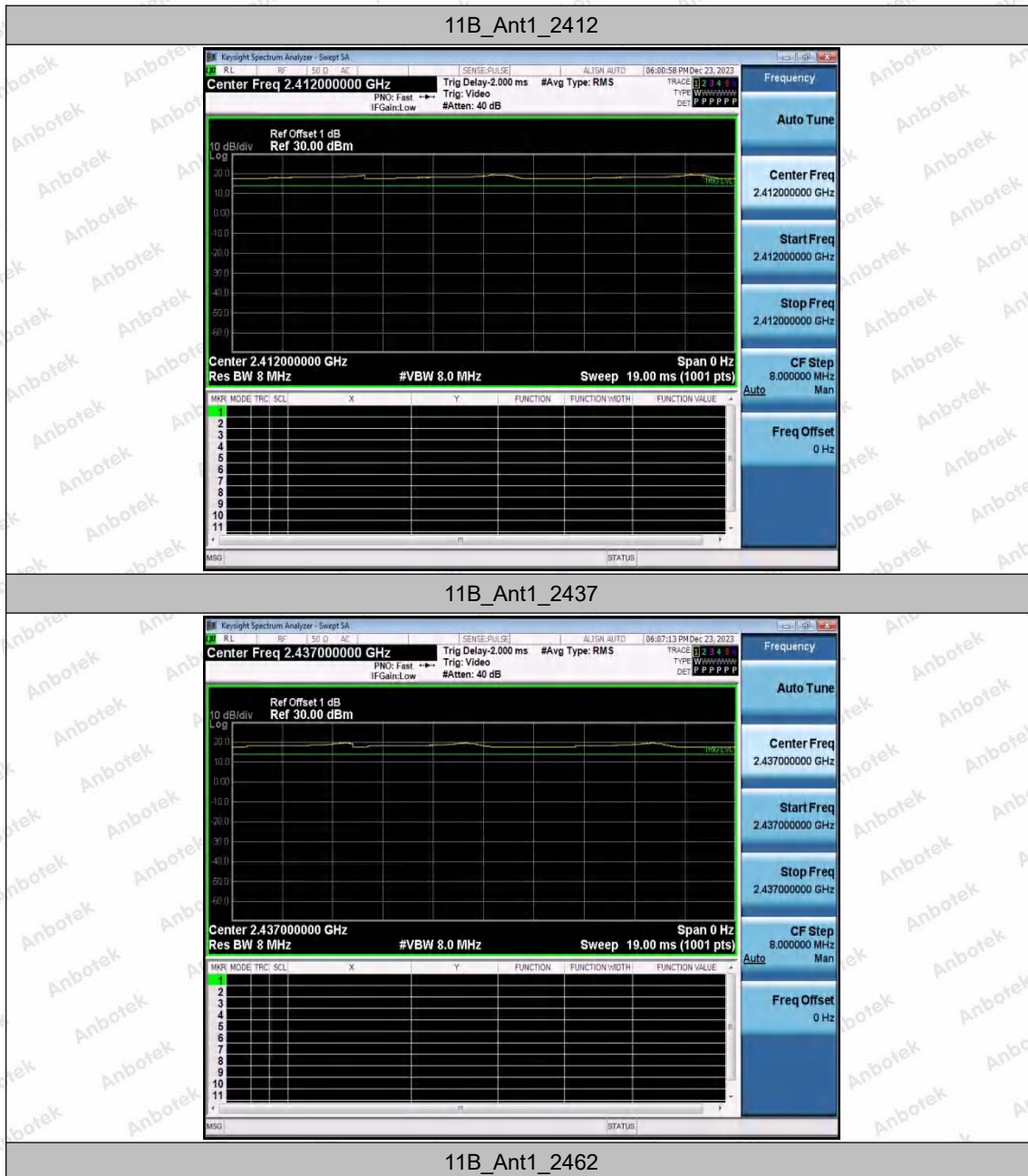
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	19.00	19.00	100.00	0.00
		2437	19.00	19.00	100.00	0.00
		2462	19.00	19.00	100.00	0.00
11G	Ant1	2412	1.40	1.41	99.29	0.03
		2437	1.40	1.41	99.29	0.03
		2462	1.39	1.41	98.58	0.06
11N20SISO	Ant1	2412	5.08	5.10	99.61	0.02
		2437	5.09	5.11	99.61	0.02
		2462	19.00	19.00	100.00	0.00
11N40SISO	Ant1	2422	2.47	2.49	99.20	0.03
		2437	2.46	2.48	99.19	0.04
		2452	2.47	2.49	99.20	0.03



Test Graphs



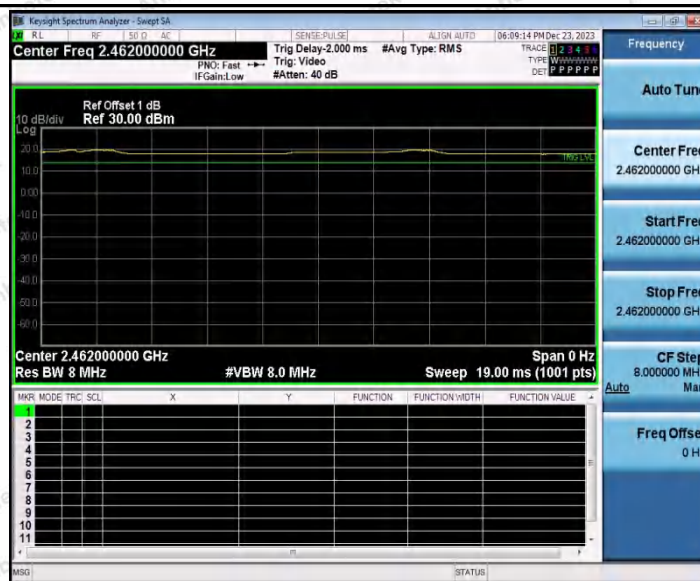
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11G_Ant1_2412



11G_Ant1_2437



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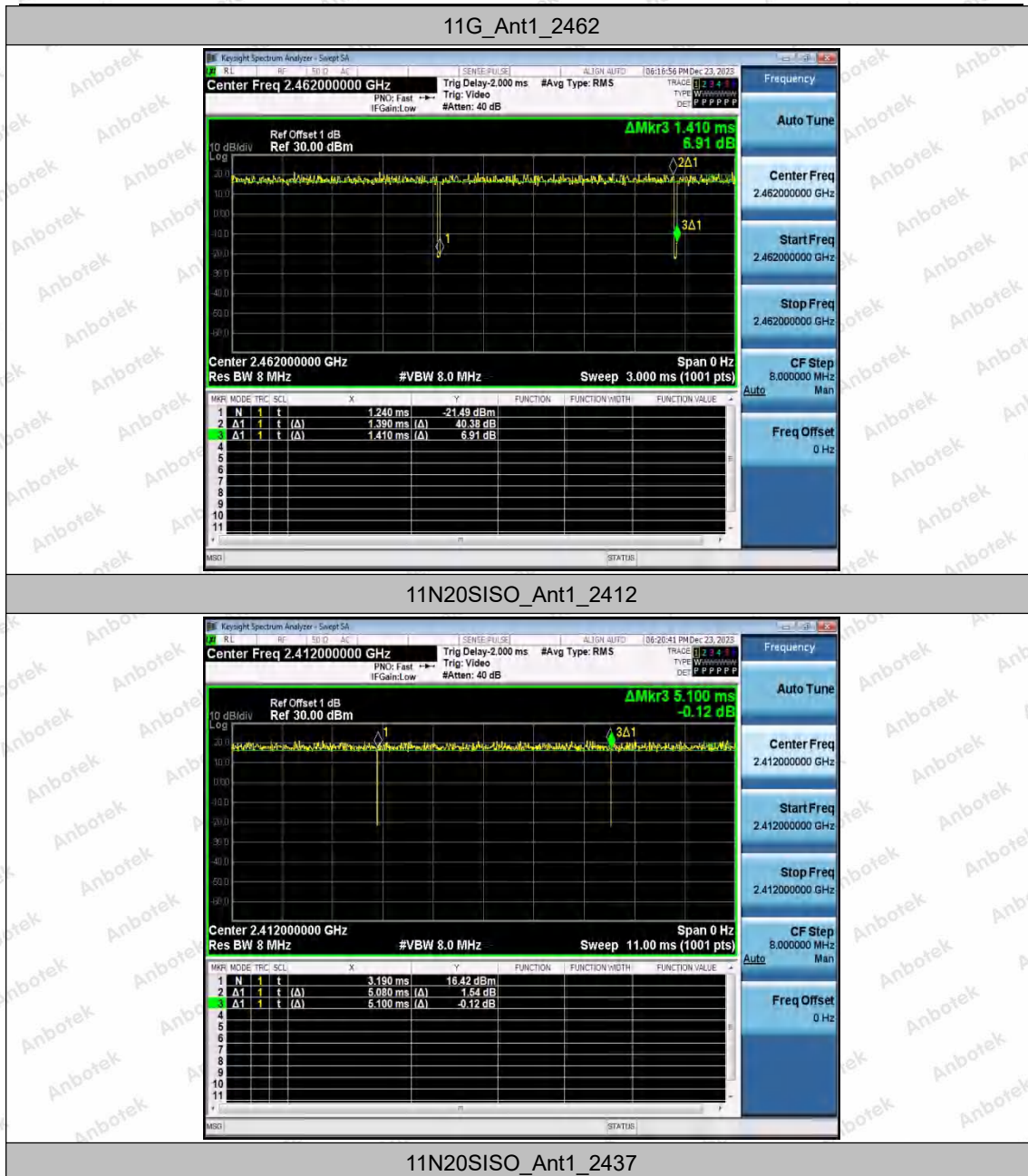


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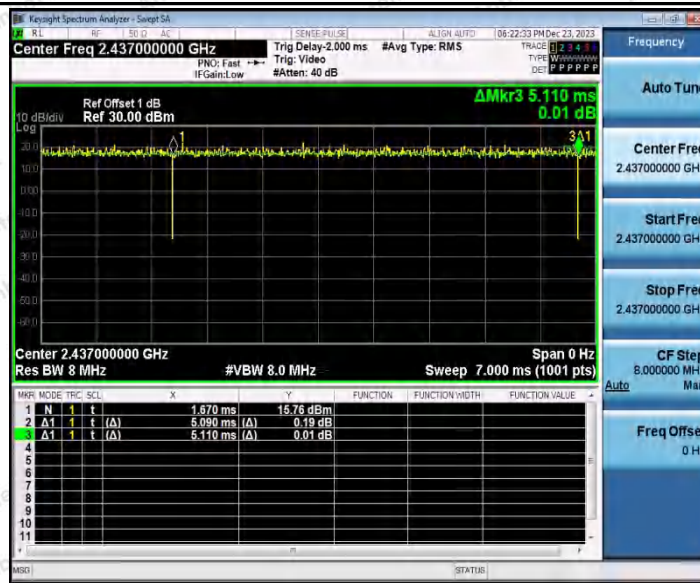
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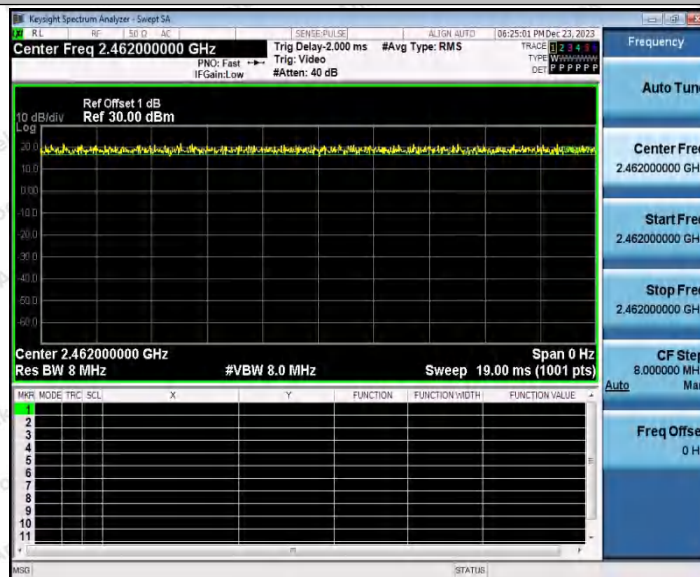


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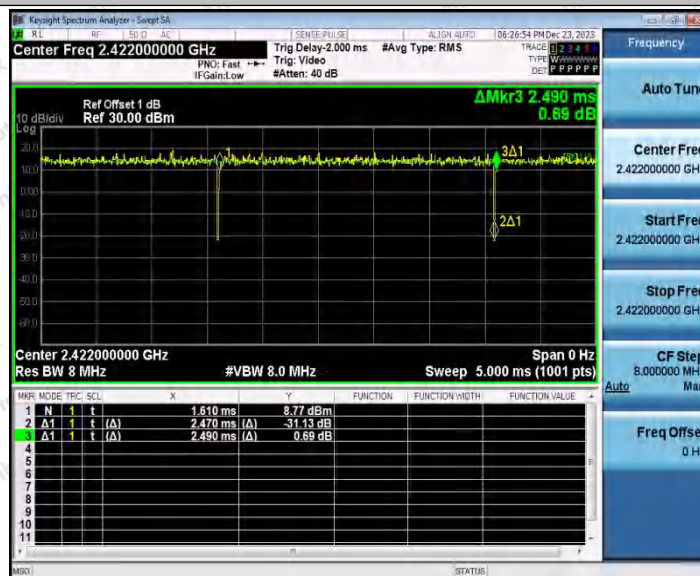




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



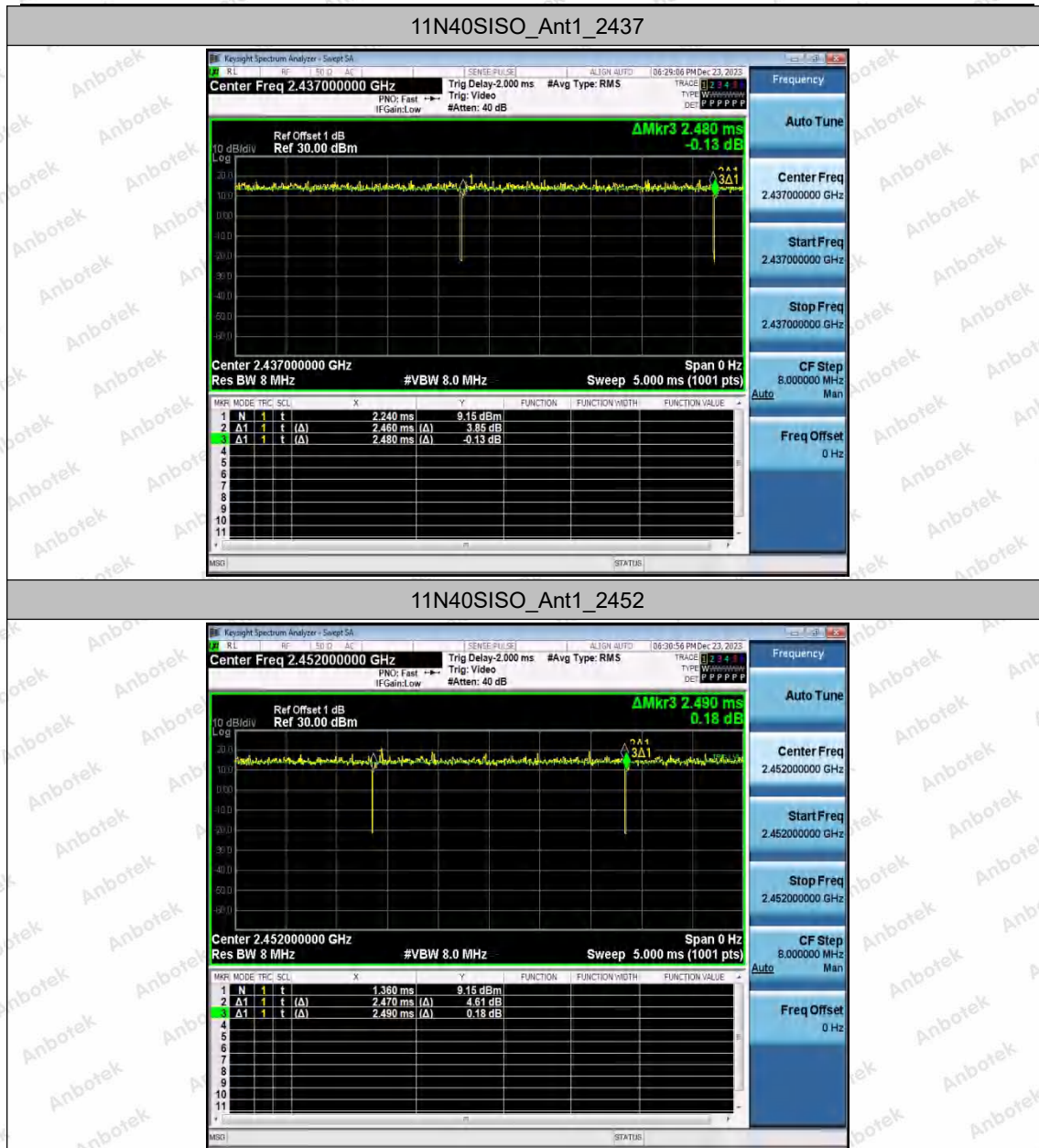
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---End---

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