

Appendix Test Data

Report No.:	18220WC30267502	Test Sample No.:	1-2-2
Start Test Date:	2023.12.20	Finish Test Date:	2023.12.25
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	44%
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	9.560	2407.000	2416.560	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	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	35.040	2404.480	2439.520	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	34.960	2434.560	2469.520	0.5	PASS

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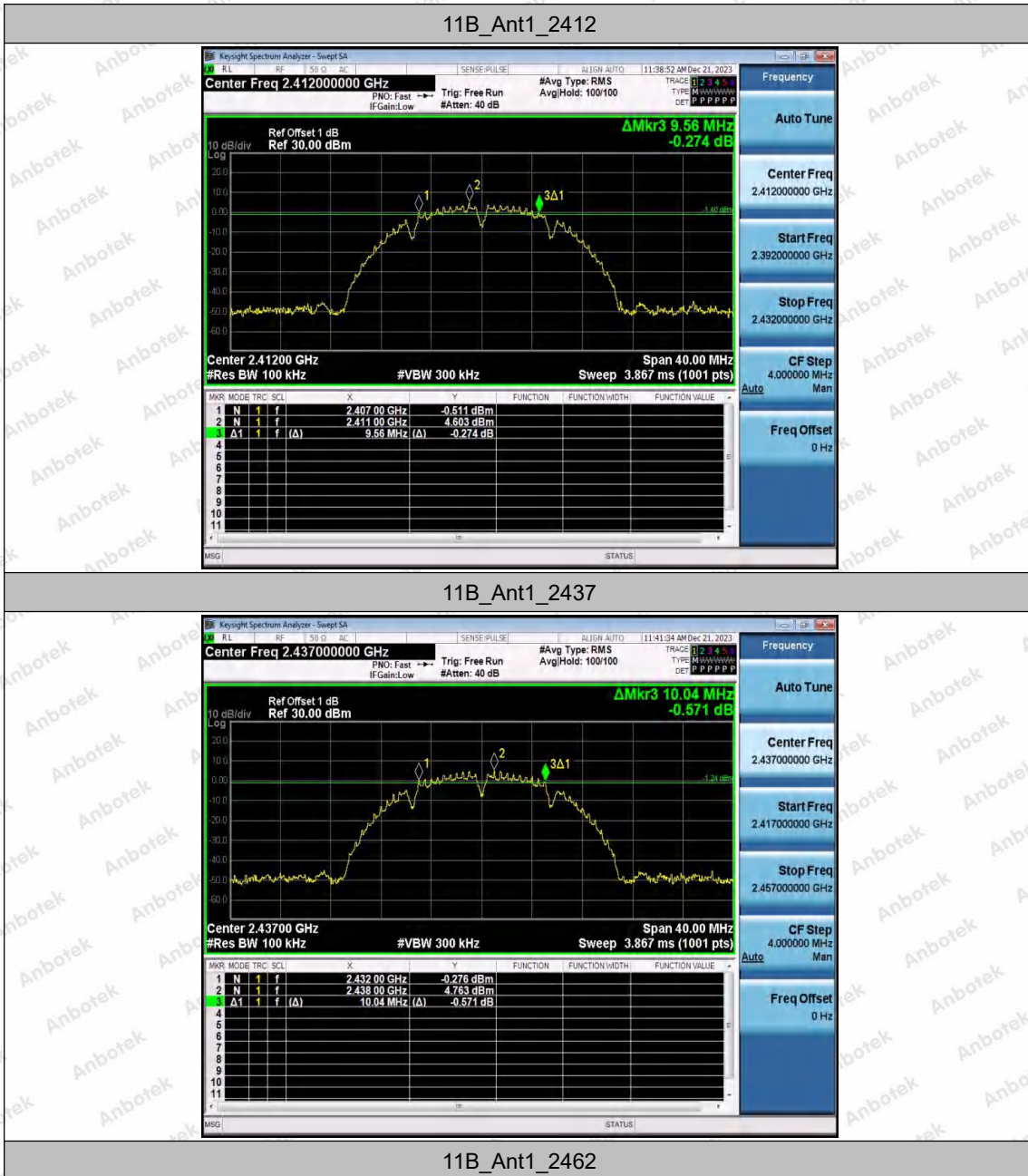
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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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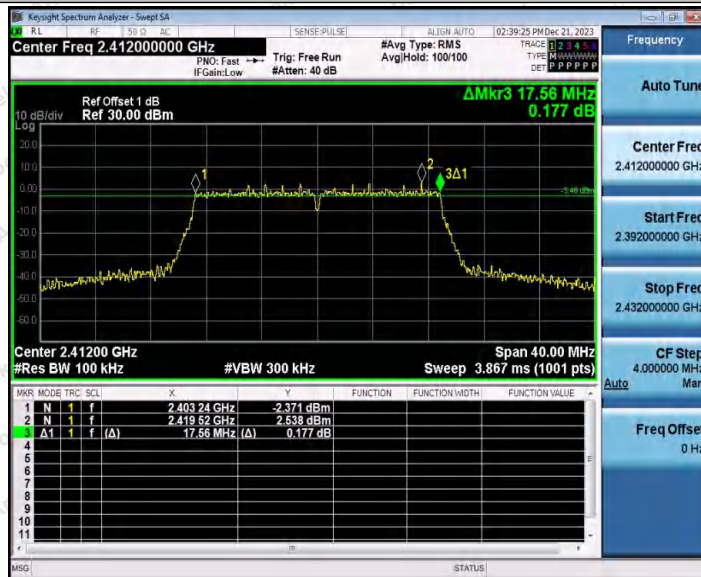
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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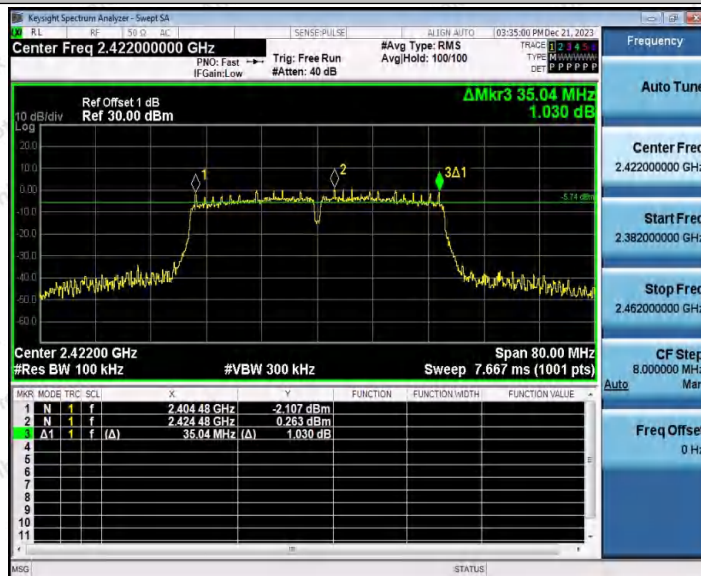




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



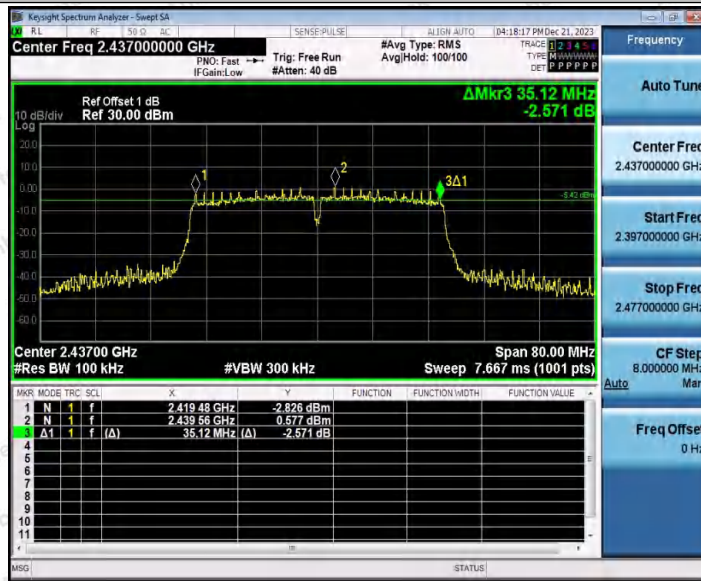
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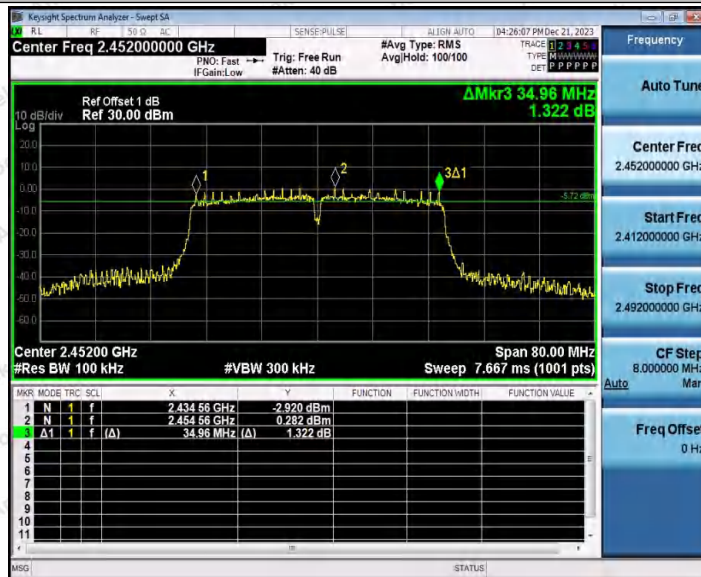
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.277	2404.9237	2419.2007	---	---
		2437	14.274	2429.9120	2444.1860	---	---
		2462	14.270	2454.8792	2469.1492	---	---
11G	Ant1	2412	17.192	2403.4524	2420.6444	---	---
		2437	17.096	2428.4869	2445.5829	---	---
		2462	17.190	2453.4032	2470.5932	---	---
11N20SISO	Ant1	2412	17.961	2403.0863	2421.0473	---	---
		2437	17.973	2428.0433	2446.0163	---	---
		2462	17.973	2453.0461	2471.0191	---	---
11N40SISO	Ant1	2422	35.981	2404.1647	2440.1457	---	---
		2437	36.052	2419.1041	2455.1561	---	---
		2452	35.965	2434.1002	2470.0652	---	---



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

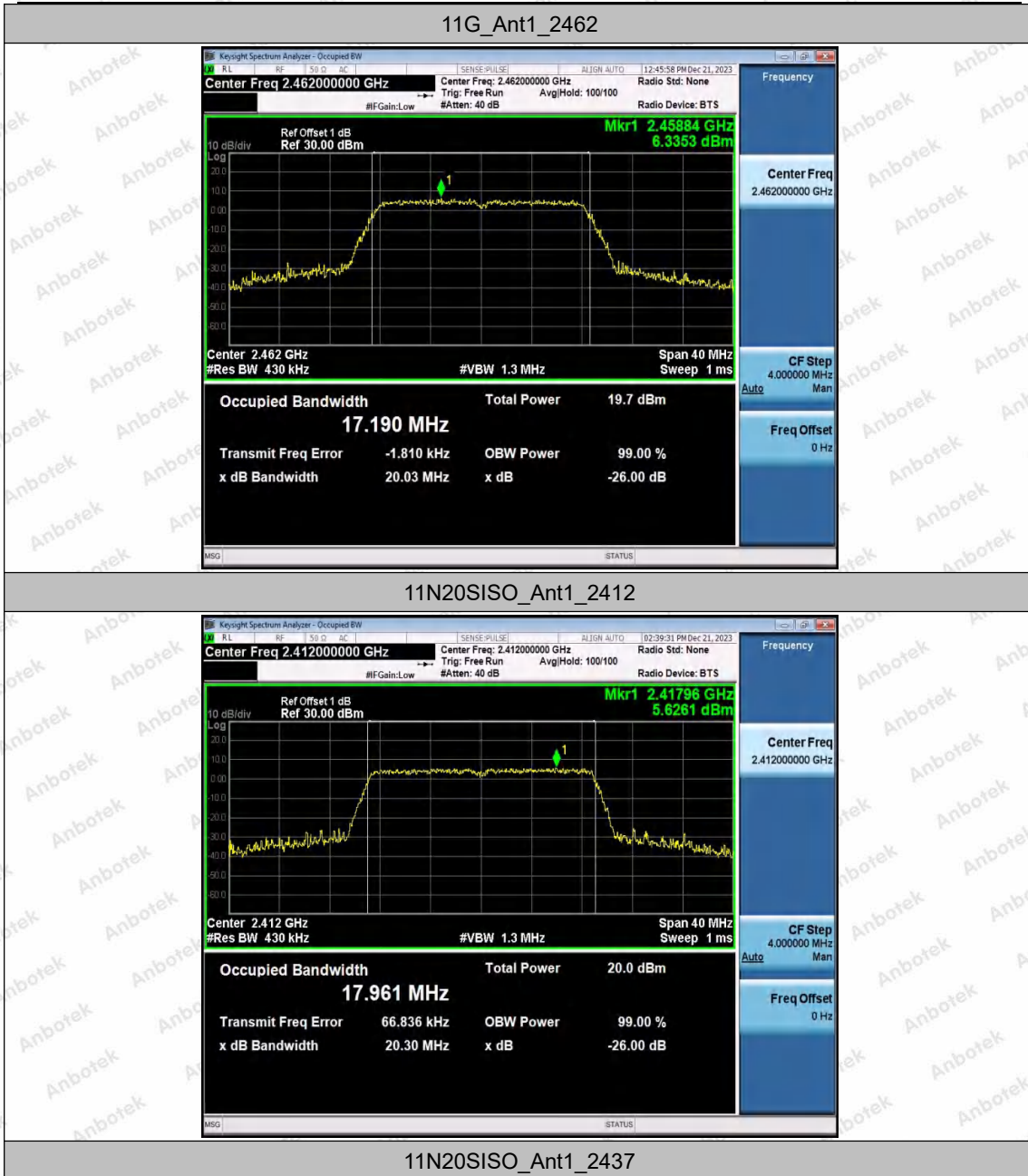


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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

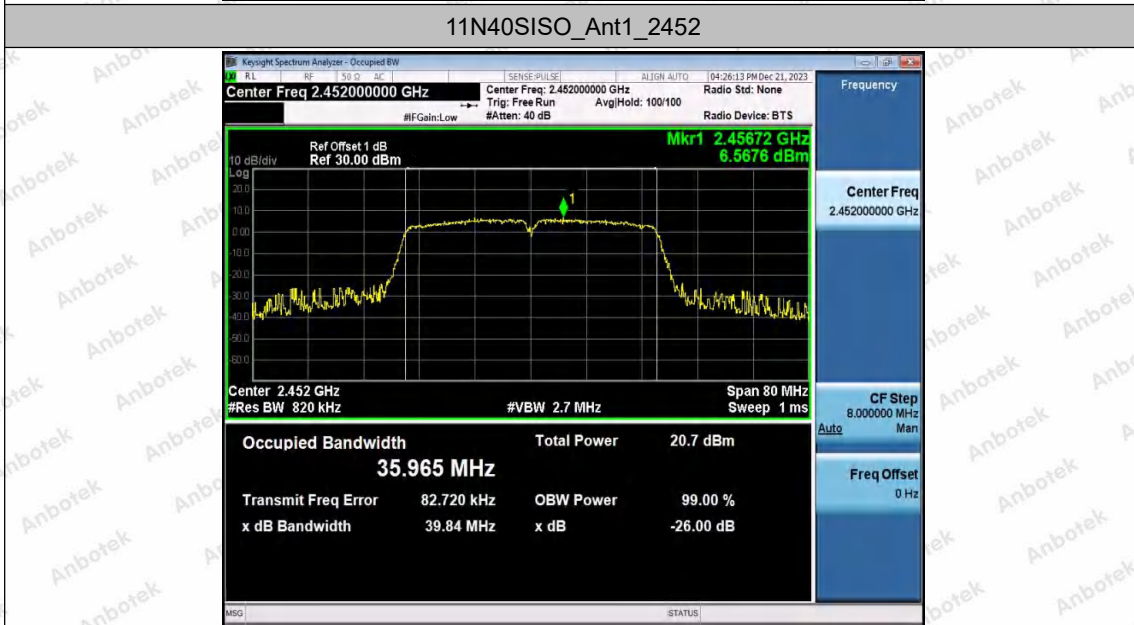
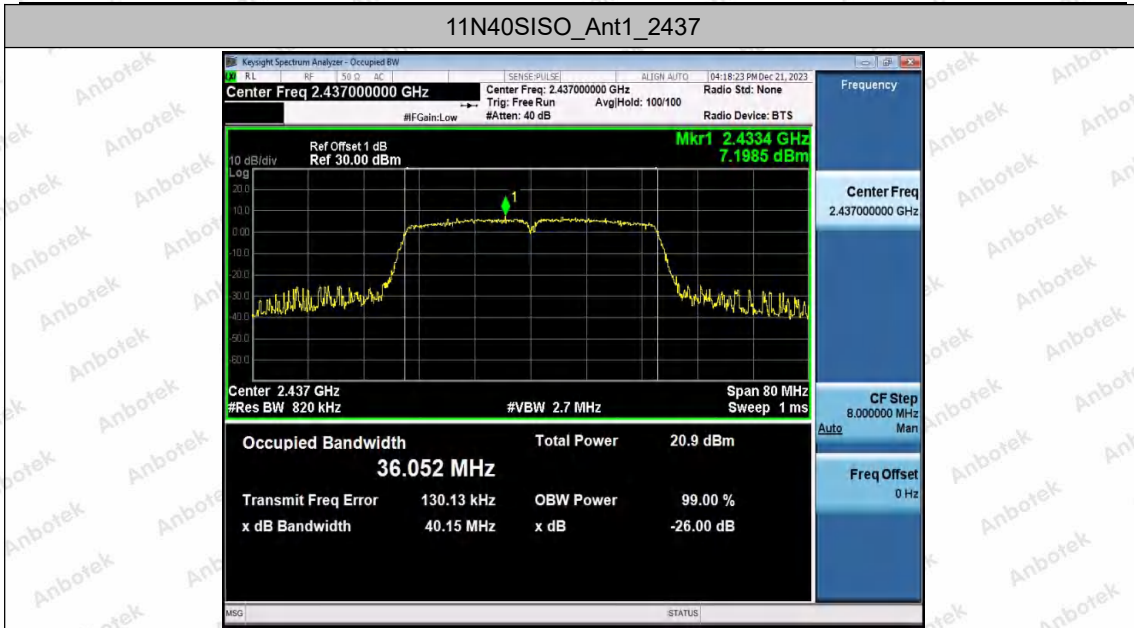


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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	9.27	≤30.00
		2437	9.27	≤30.00
		2462	9.16	≤30.00
11G	Ant1	2412	9.46	≤30.00
		2437	9.40	≤30.00
		2462	9.31	≤30.00
11N20SISO	Ant1	2412	9.11	≤30.00
		2437	9.44	≤30.00
		2462	8.93	≤30.00
11N40SISO	Ant1	2422	9.05	≤30.00
		2437	9.71	≤30.00
		2452	9.66	≤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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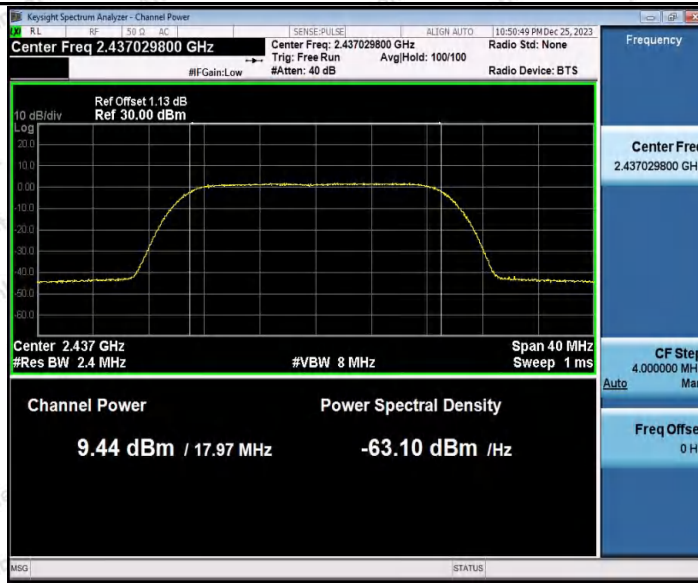


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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

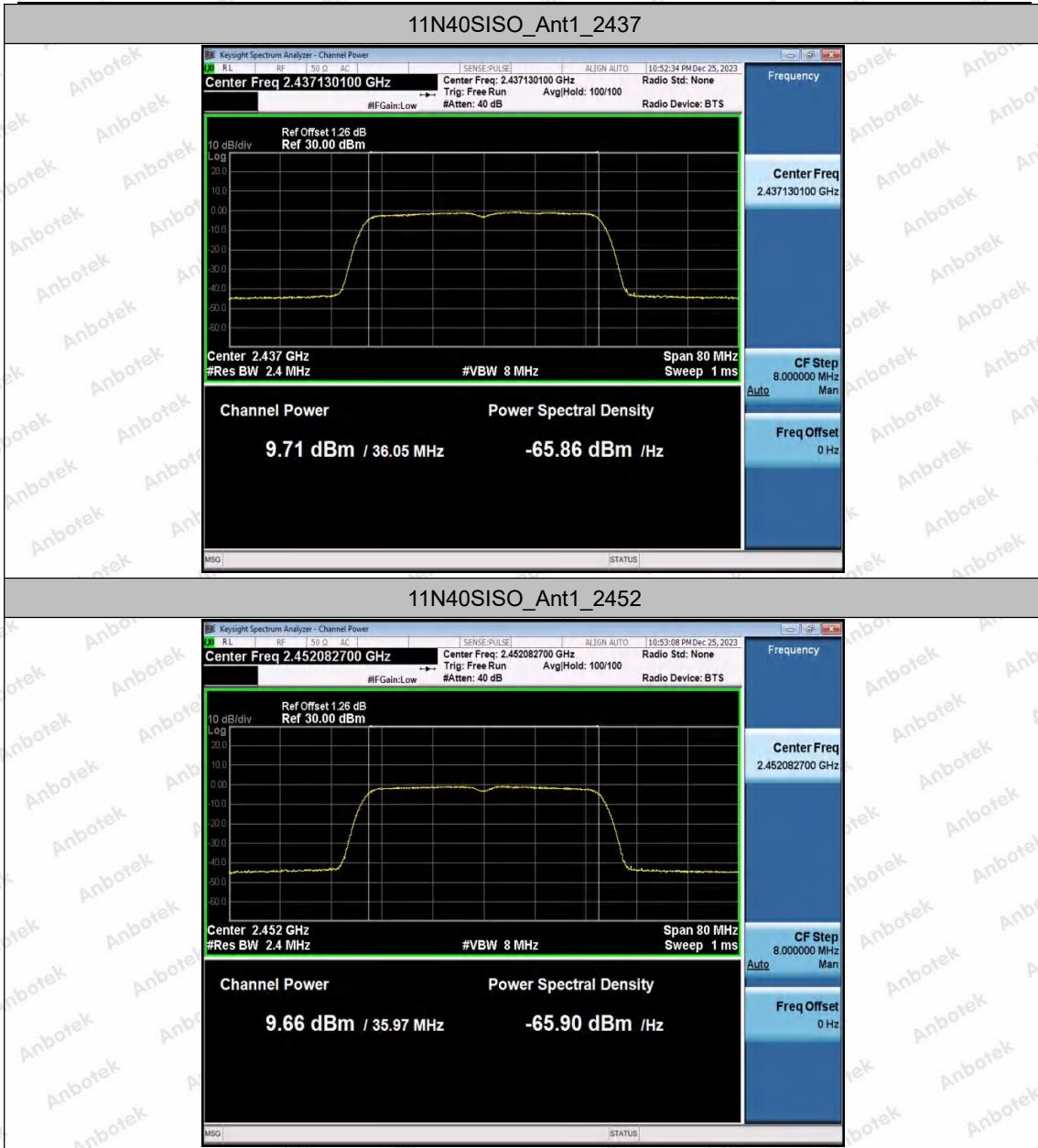


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.07	-23.07	≤8.00	PASS
		2437	-12.99	-22.99	≤8.00	PASS
		2462	-13.32	-23.32	≤8.00	PASS
11G	Ant1	2412	-14.66	-24.66	≤8.00	PASS
		2437	-14.83	-24.83	≤8.00	PASS
		2462	-14.82	-24.82	≤8.00	PASS
11N20SIS O	Ant1	2412	-15.26	-25.26	≤8.00	PASS
		2437	-14.84	-24.84	≤8.00	PASS
		2462	-15.07	-25.07	≤8.00	PASS
11N40SIS O	Ant1	2422	-18.03	-28.03	≤8.00	PASS
		2437	-17.48	-27.48	≤8.00	PASS
		2452	-17.35	-27.35	≤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_2462

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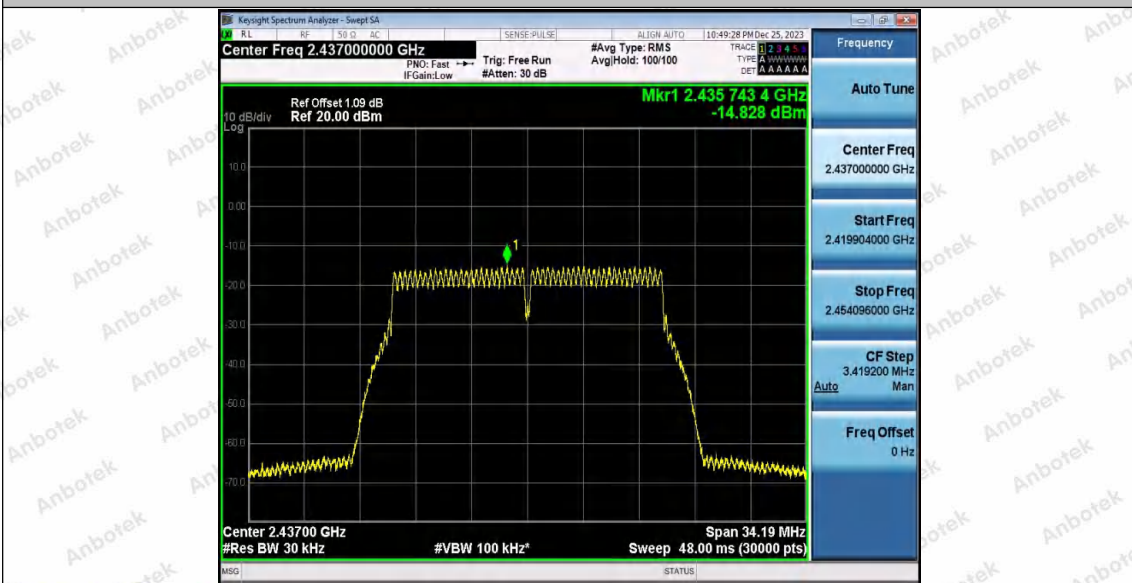




11G_Ant1_2412



11G_Ant1_2437

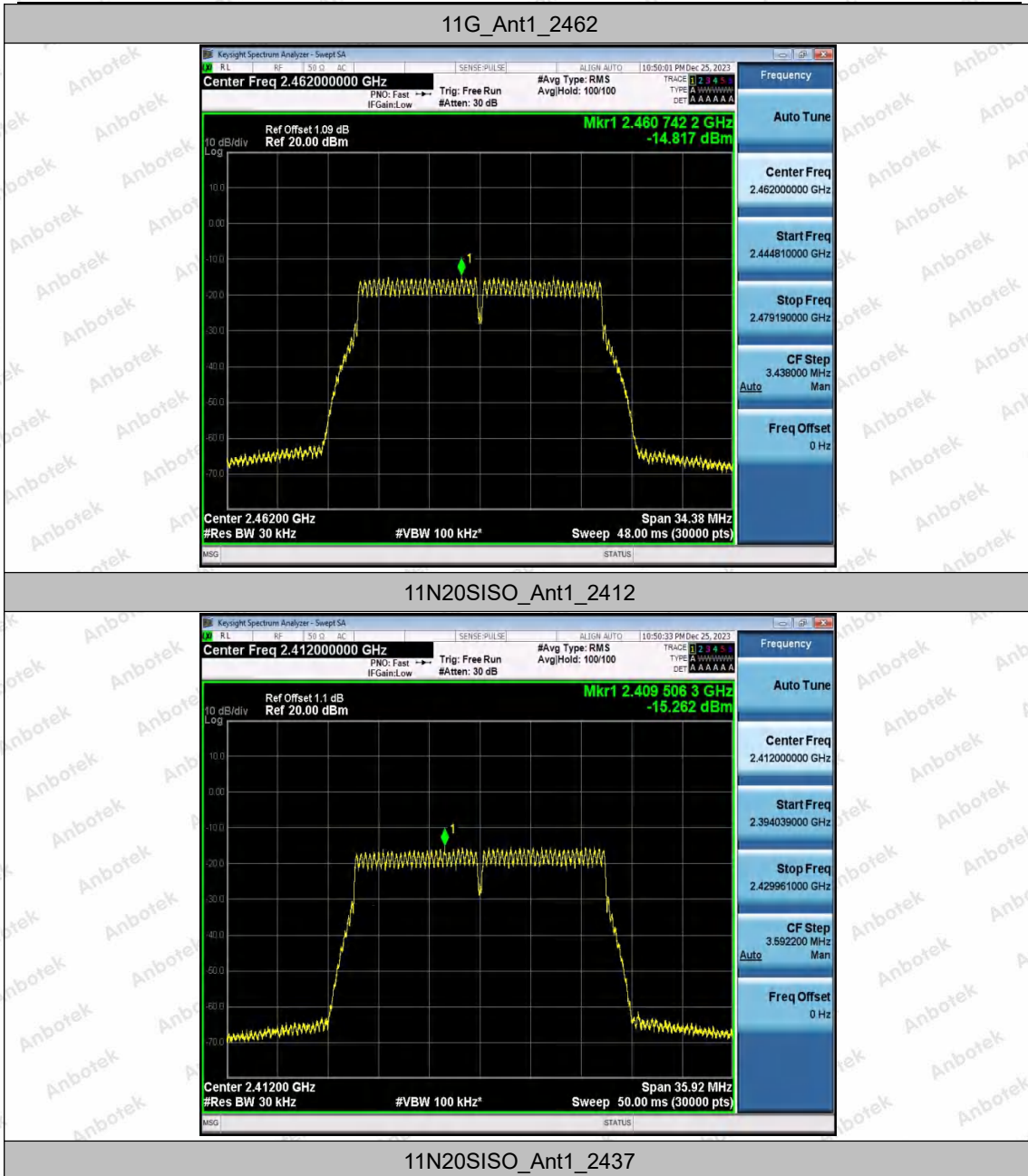


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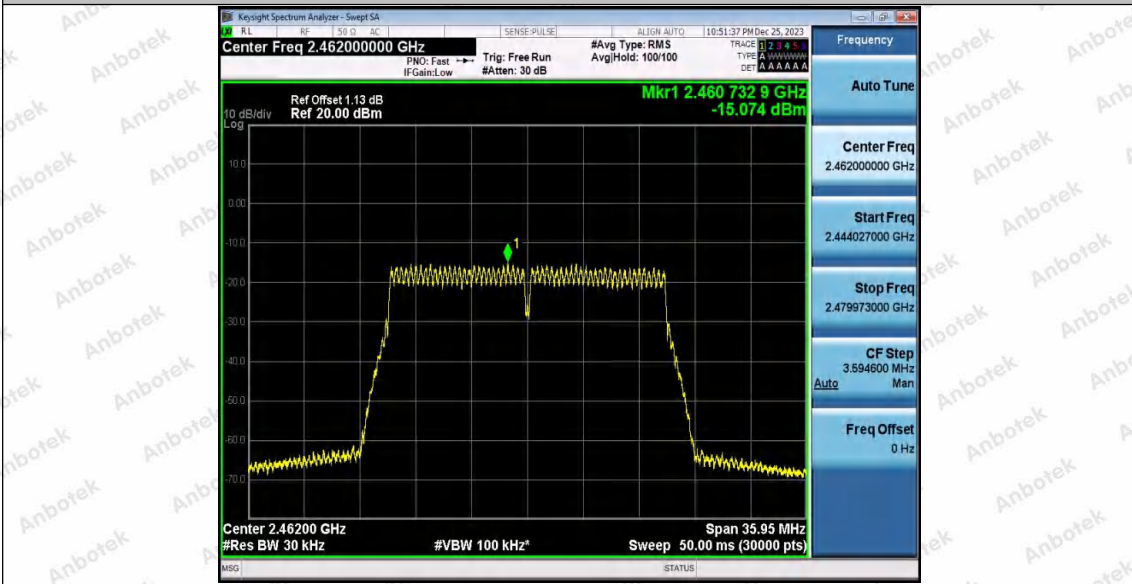
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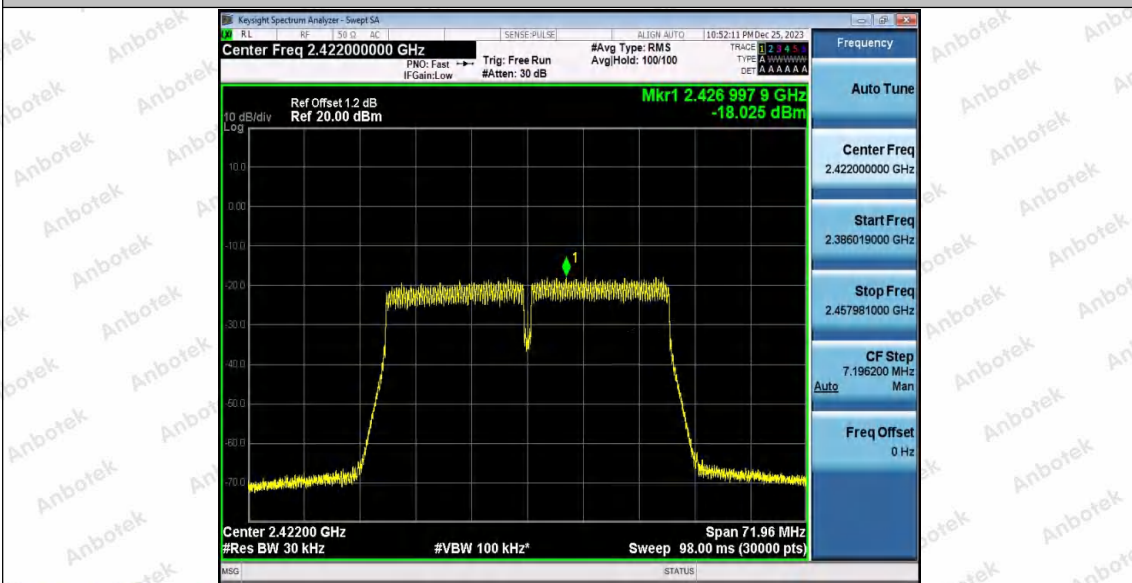




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

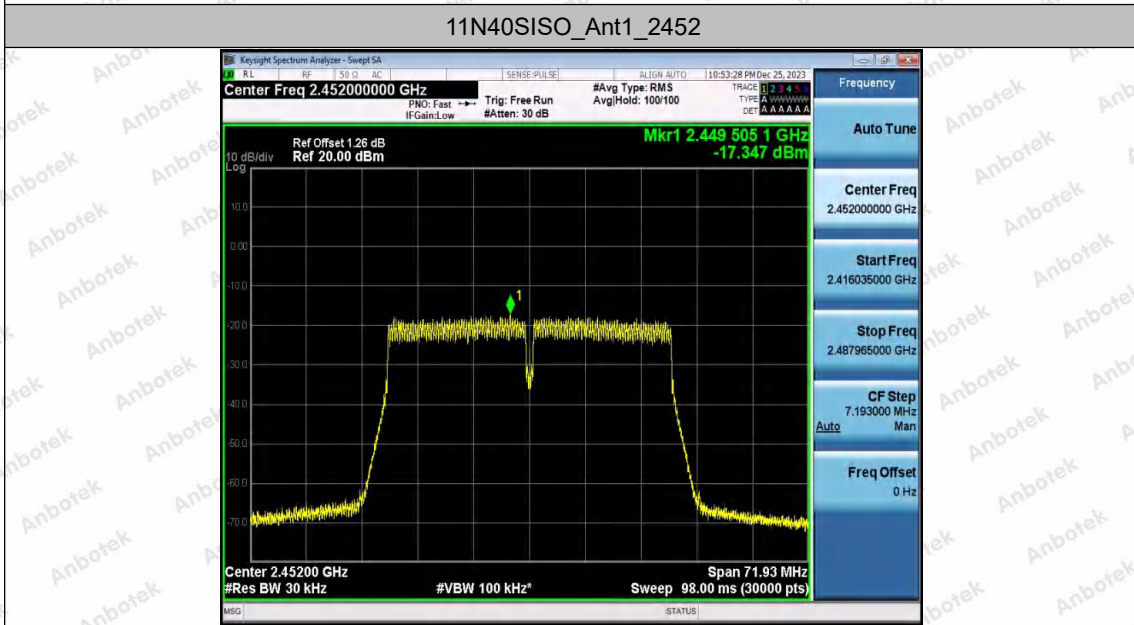
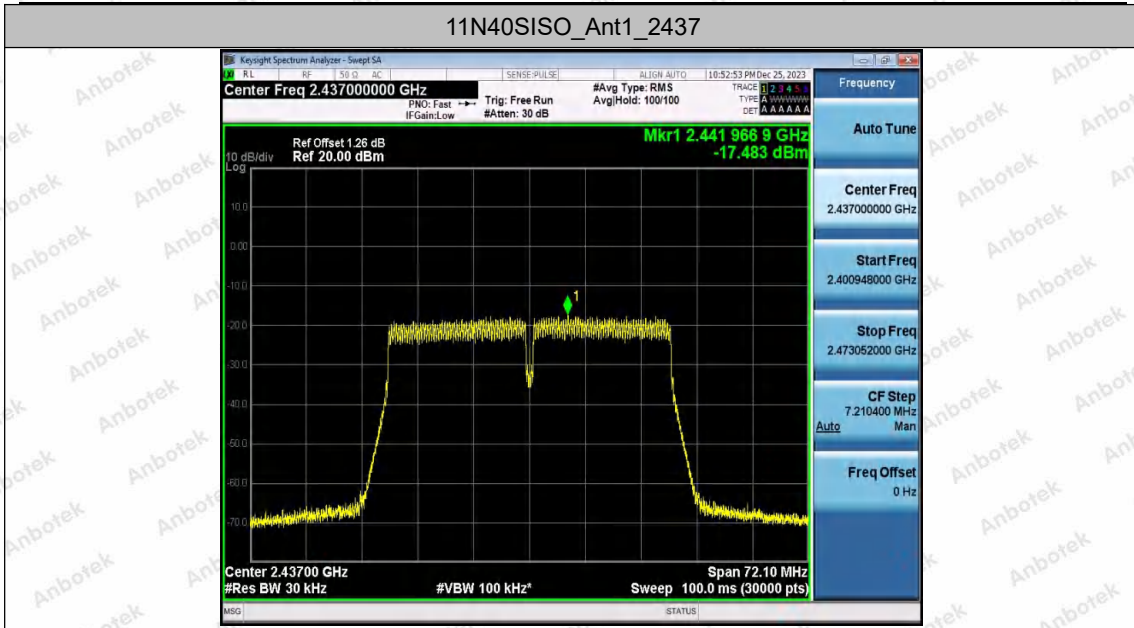


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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.84	-47.43	≤-26.17	PASS
		High	2462	4.21	-54.61	≤-25.8	PASS
11G	Ant1	Low	2412	2.46	-36.28	≤-27.54	PASS
		High	2462	2.18	-48.24	≤-27.82	PASS
11N20SISO	Ant1	Low	2412	2.14	-36.47	≤-27.86	PASS
		High	2462	2.85	-46.75	≤-27.15	PASS
11N40SISO	Ant1	Low	2422	0.36	-34.55	≤-29.64	PASS
		High	2452	0.31	-42.73	≤-29.69	PASS

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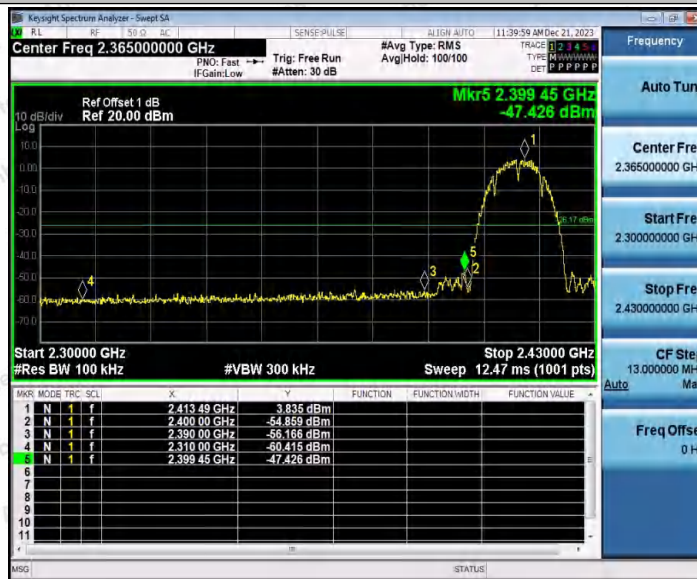


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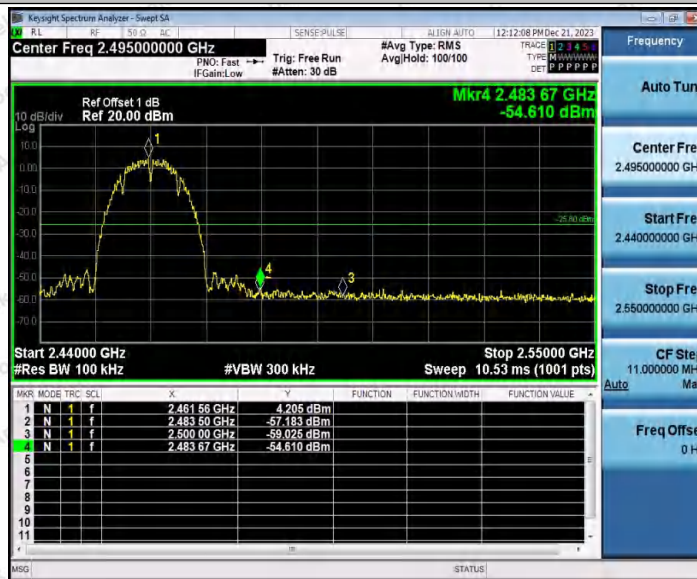


Test Graphs

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	2.40	2.40	---	PASS
			30~1000	2.40	-69.3	≤-27.6	PASS
			1000~26500	2.40	-53.24	≤-27.6	PASS
		2437	Reference	4.11	4.11	---	PASS
			30~1000	4.11	-69.2	≤-25.89	PASS
			1000~26500	4.11	-53.38	≤-25.89	PASS
		2462	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-69.28	≤-26.74	PASS
			1000~26500	3.26	-53.76	≤-26.74	PASS
11G	Ant1	2412	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-69.05	≤-28.99	PASS
			1000~26500	1.01	-53.87	≤-28.99	PASS
		2437	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-68.64	≤-30.05	PASS
			1000~26500	-0.05	-54.13	≤-30.05	PASS
		2462	Reference	2.08	2.08	---	PASS
			30~1000	2.08	-68.84	≤-27.92	PASS
			1000~26500	2.08	-53.13	≤-27.92	PASS
11N20SISO	Ant1	2412	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-68.78	≤-28.3	PASS
			1000~26500	1.70	-54.29	≤-28.3	PASS
		2437	Reference	2.05	2.05	---	PASS
			30~1000	2.05	-69.41	≤-27.95	PASS
			1000~26500	2.05	-53.7	≤-27.95	PASS
		2462	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-68.93	≤-28.87	PASS
			1000~26500	1.13	-53.9	≤-28.87	PASS
11N40SISO	Ant1	2422	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-67.03	≤-29.85	PASS
			1000~26500	0.15	-53.72	≤-29.85	PASS
		2437	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-68.88	≤-30.59	PASS
			1000~26500	-0.59	-53.45	≤-30.59	PASS
		2452	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-69.23	≤-32.66	PASS
			1000~26500	-2.66	-54.18	≤-32.66	PASS

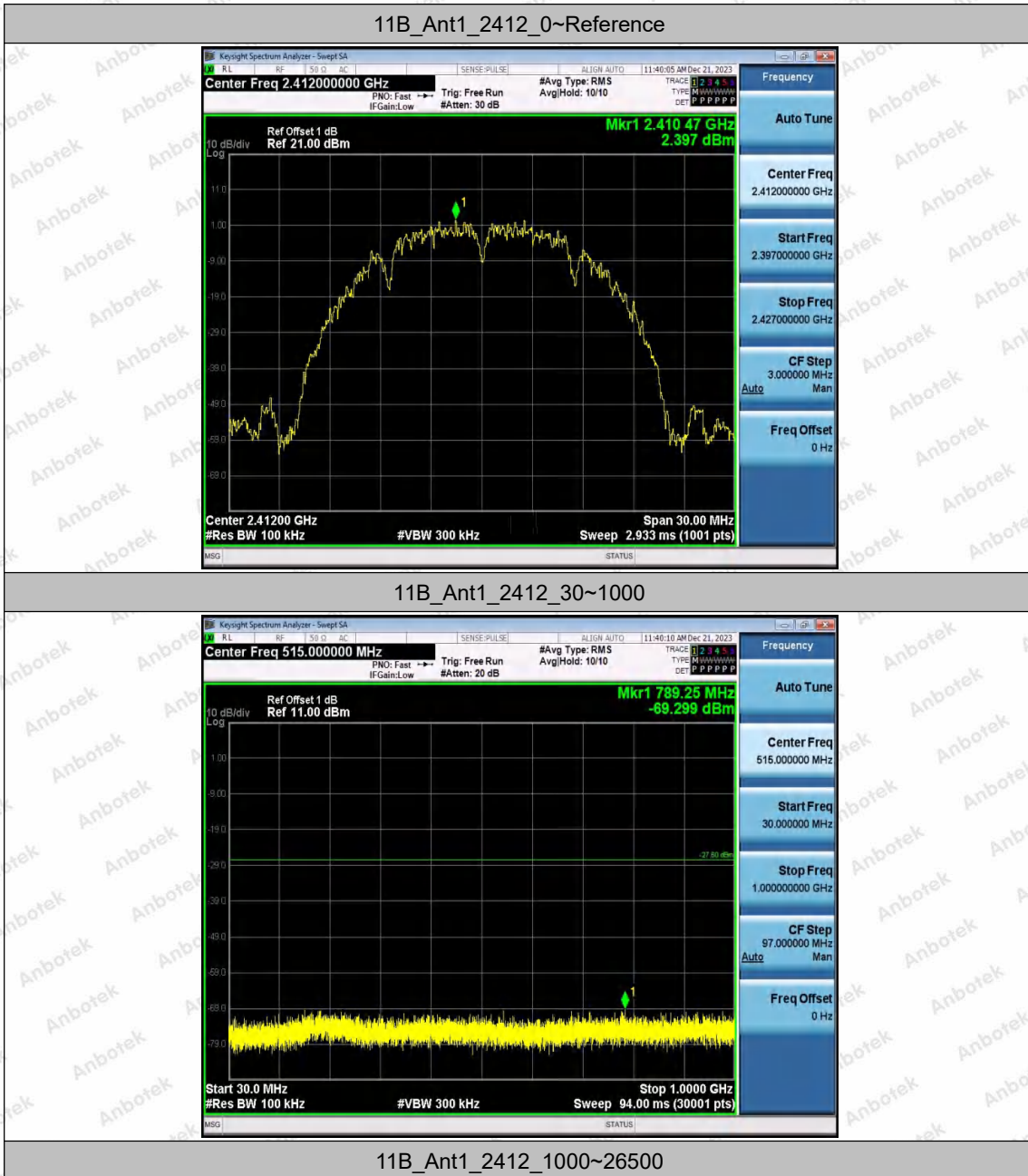
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Test Graphs

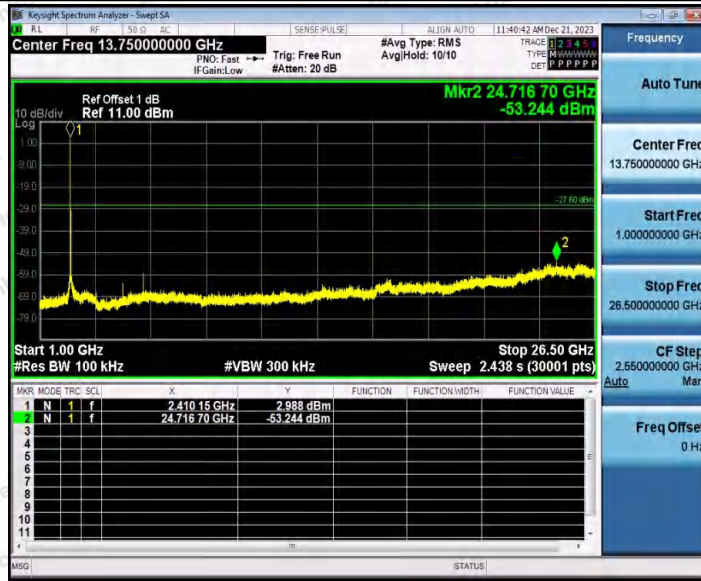


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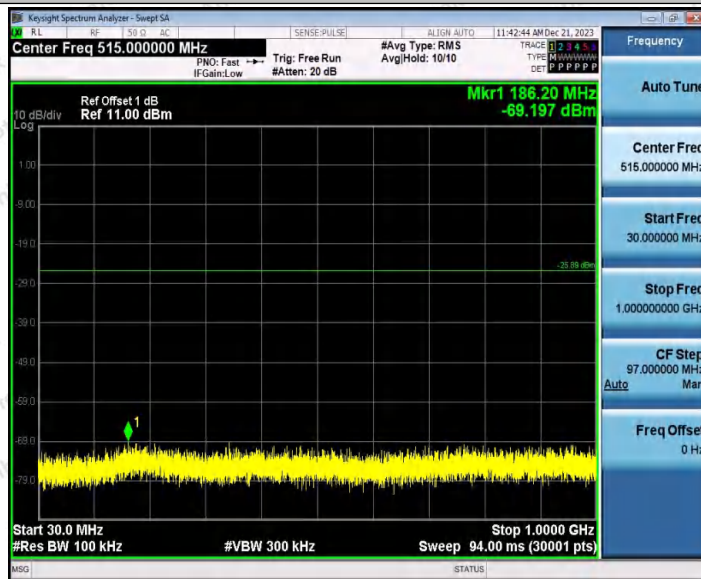




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



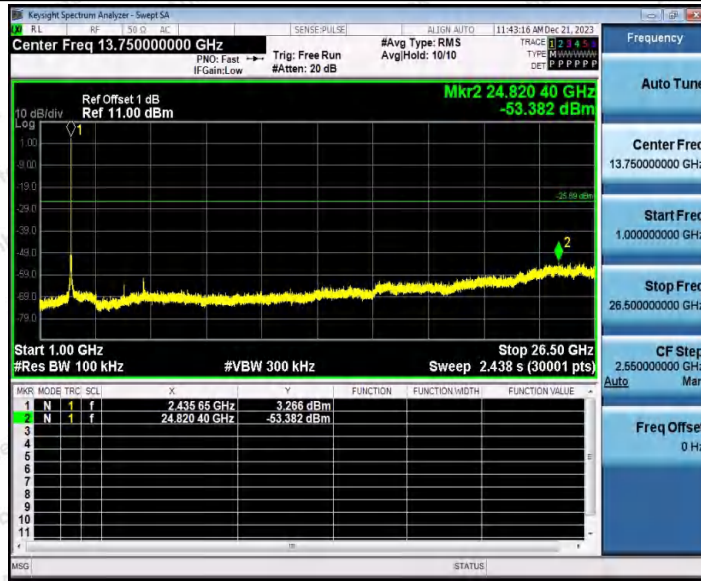
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



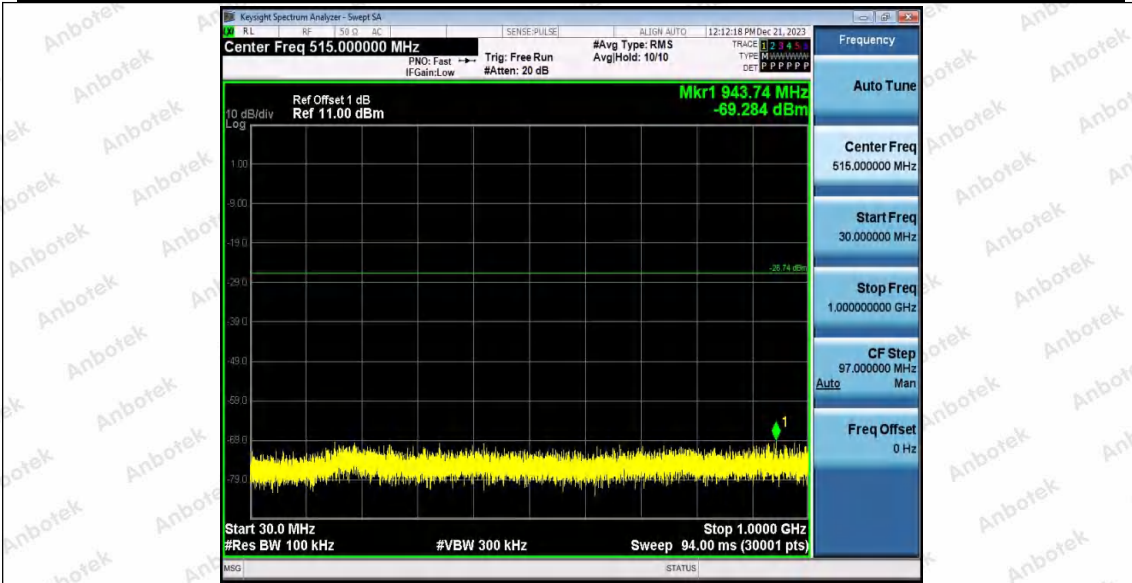
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Shenzhen Anbotek Compliance Laboratory Limited

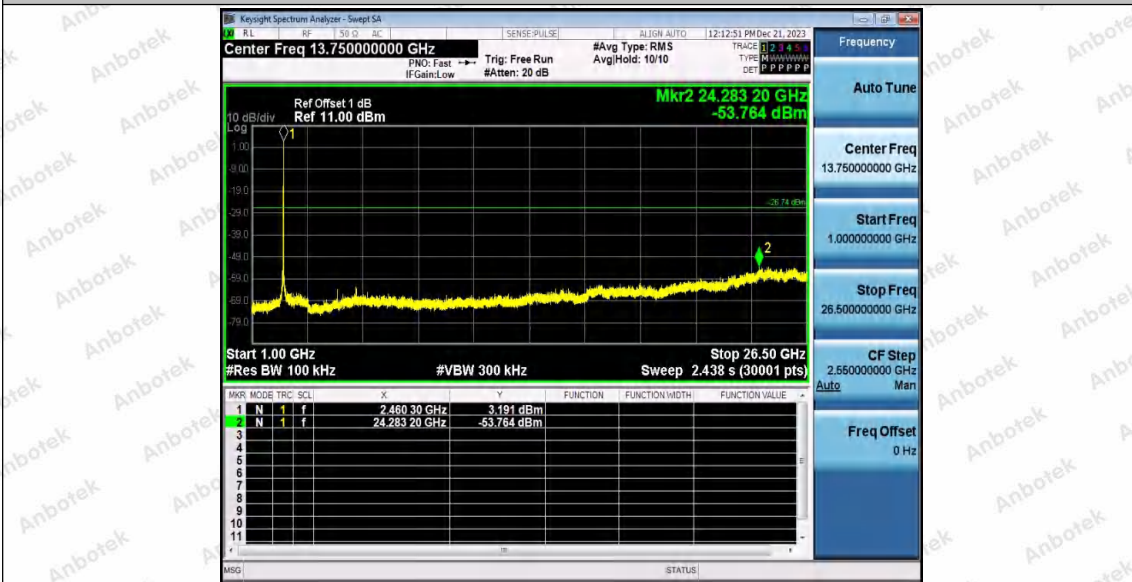
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



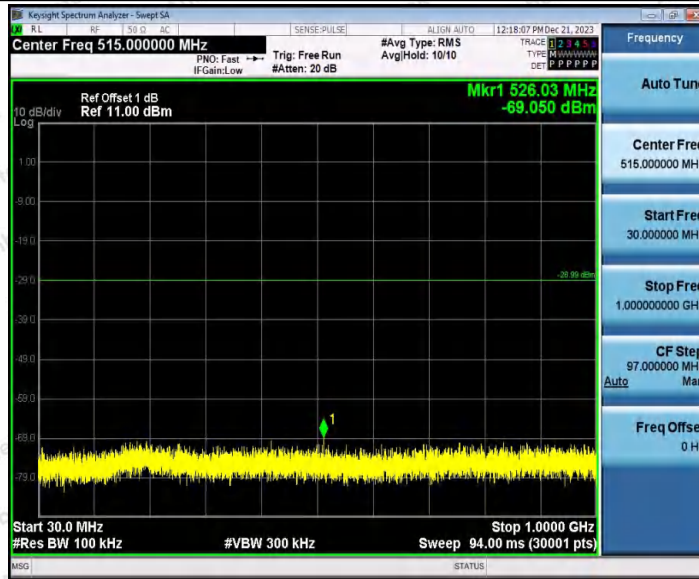
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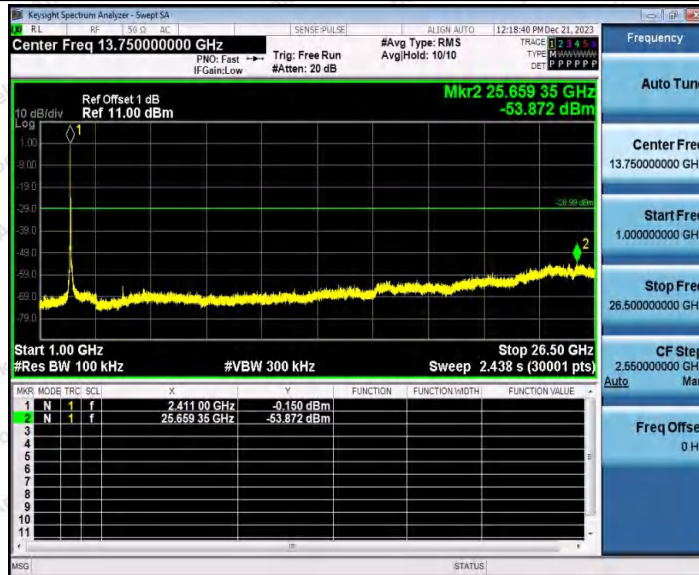
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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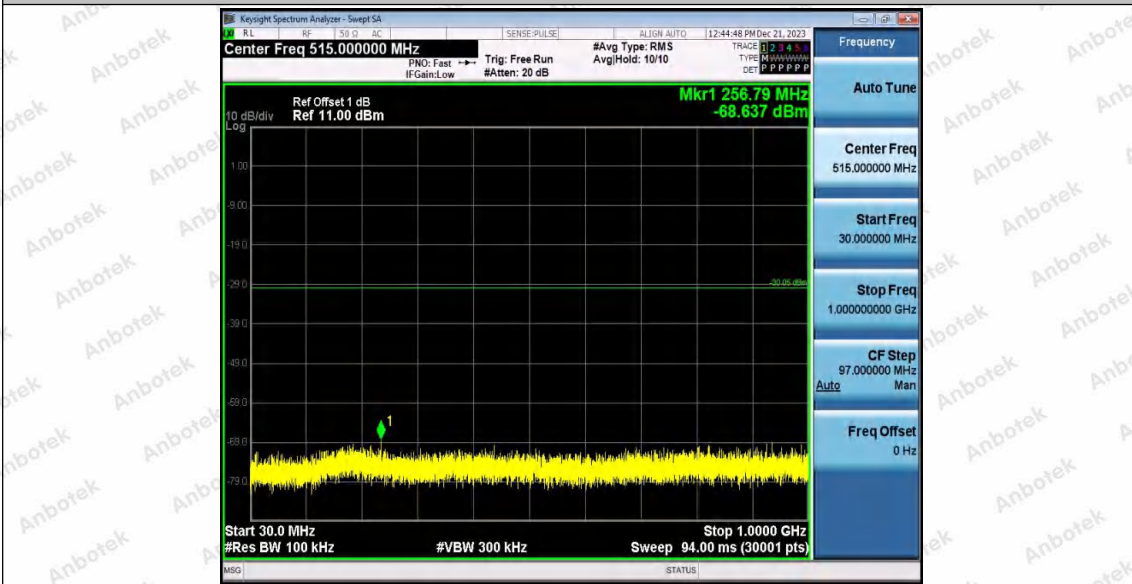
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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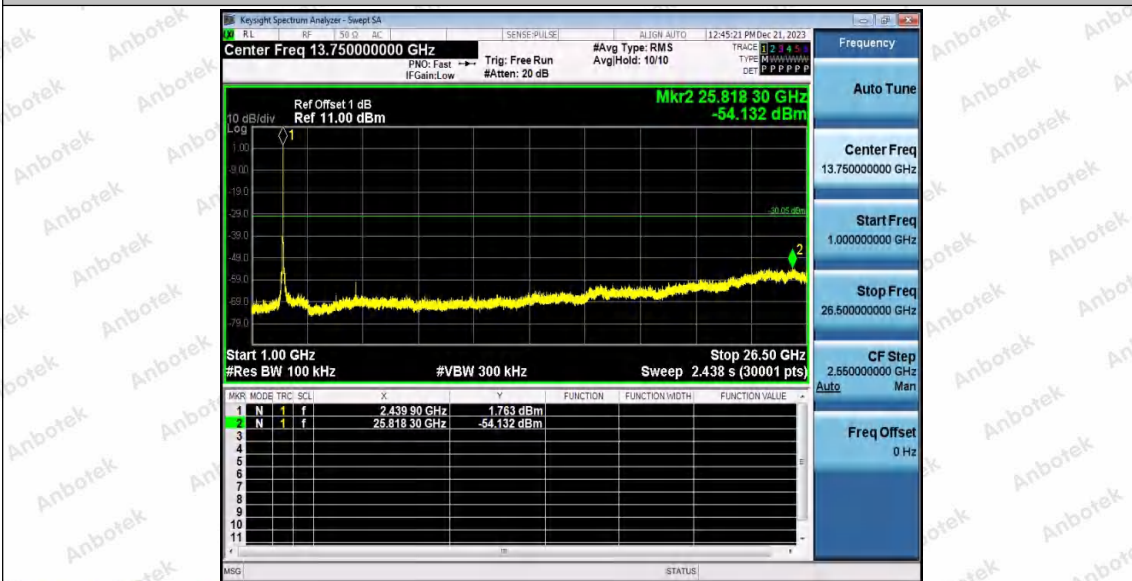




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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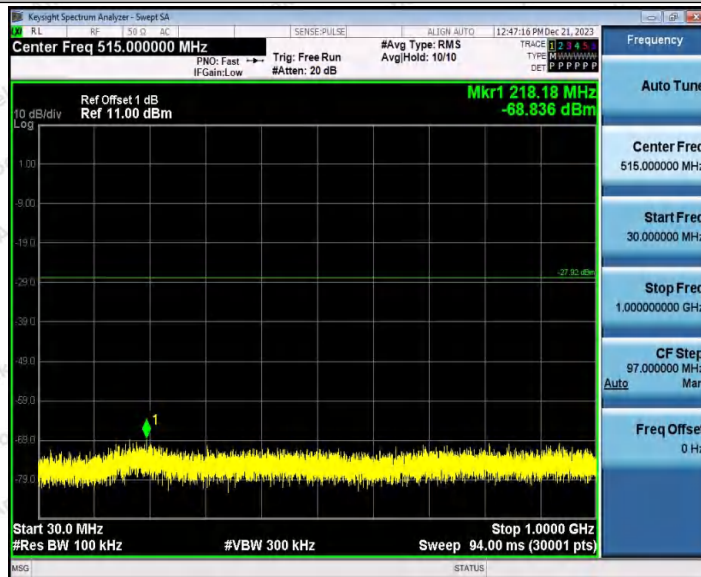
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



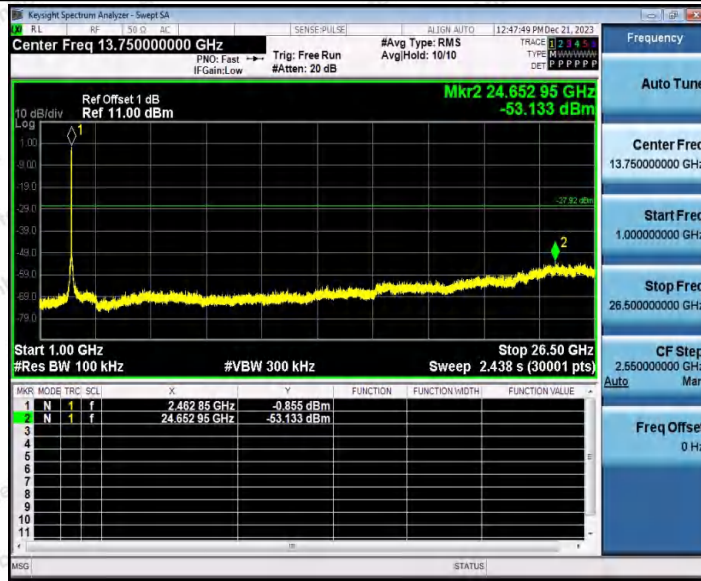
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Shenzhen Anbotek Compliance Laboratory Limited

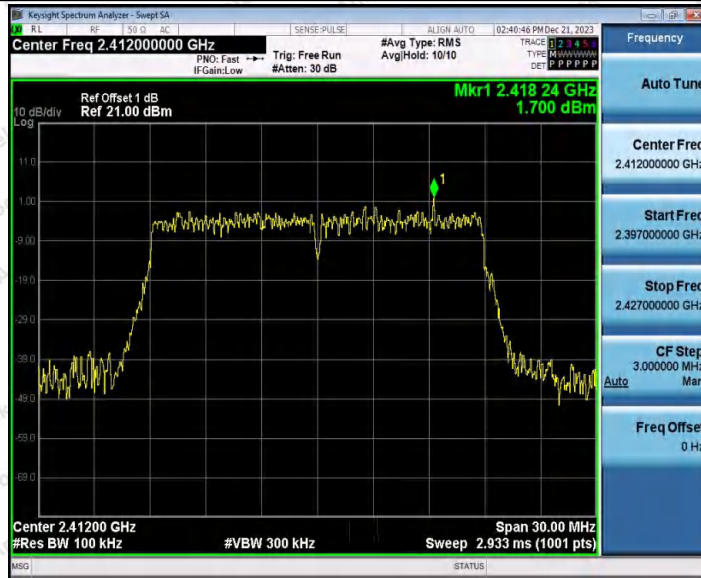
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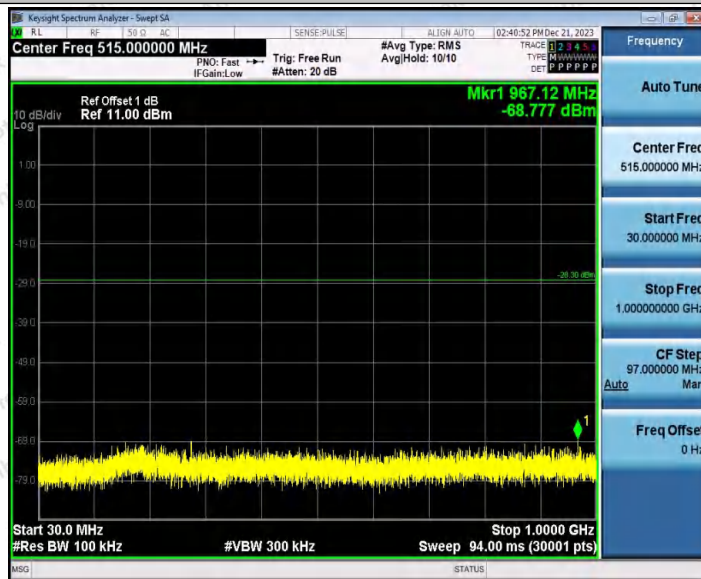




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



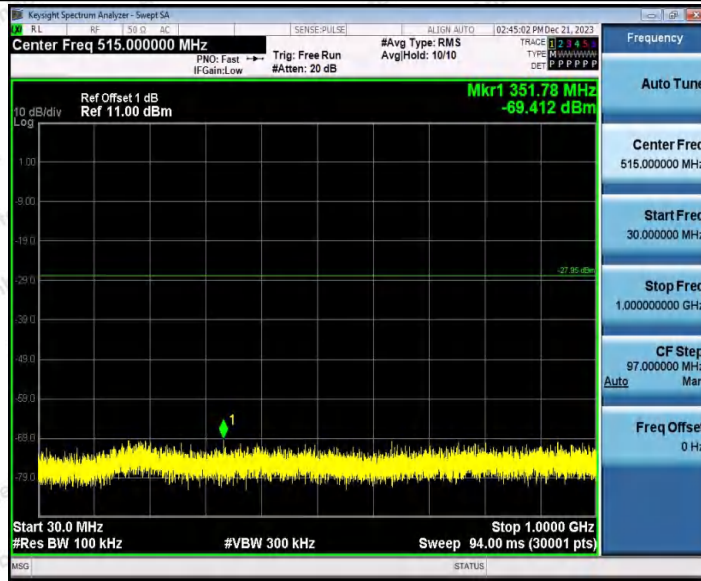
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Shenzhen Anbotek Compliance Laboratory Limited

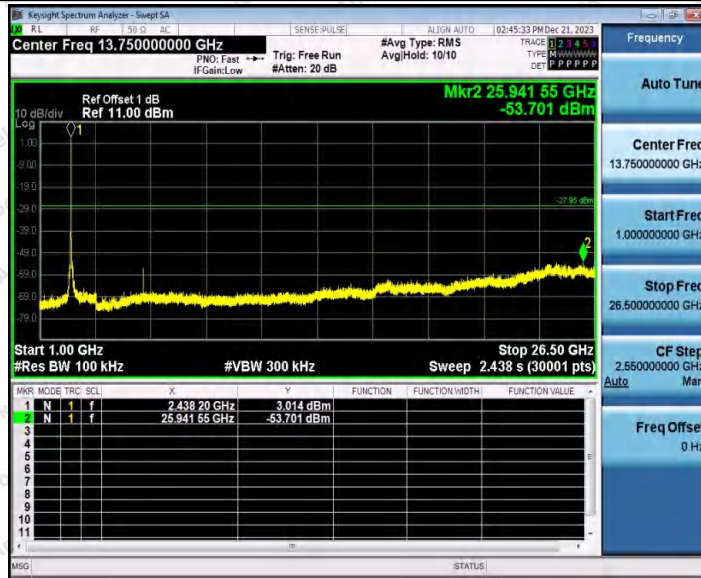
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



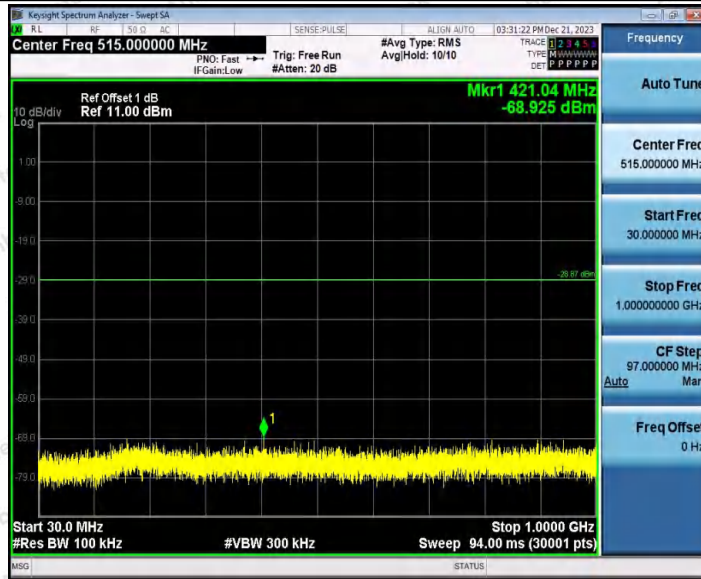
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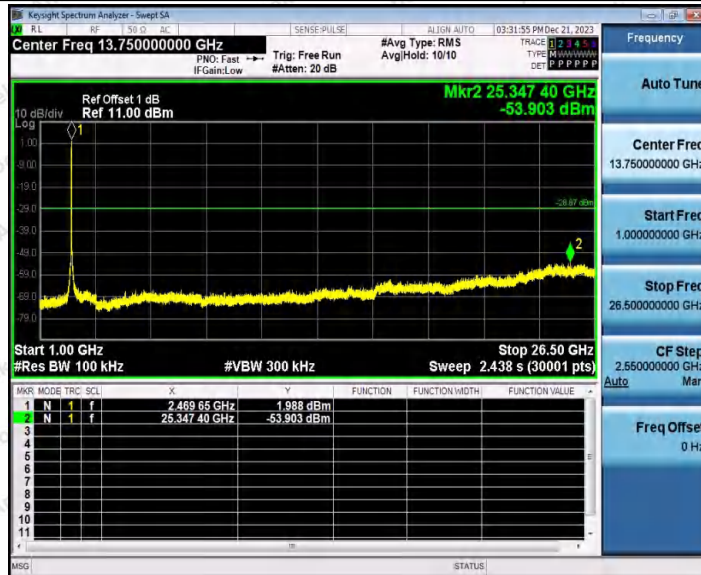
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

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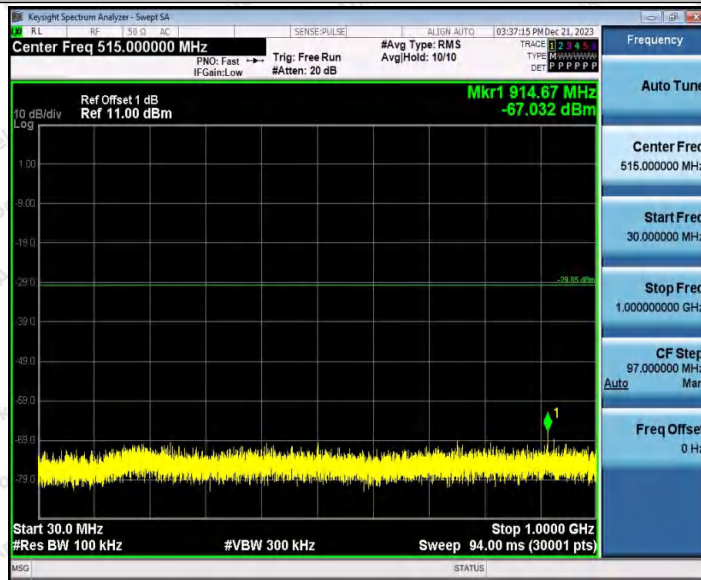
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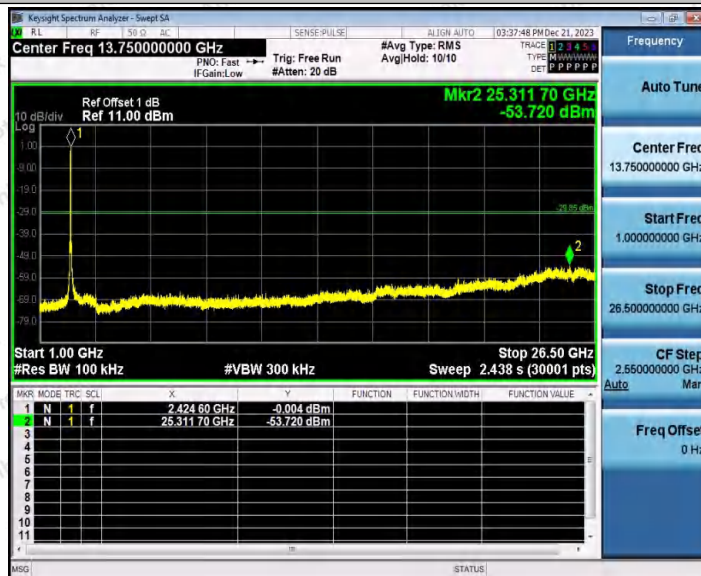




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



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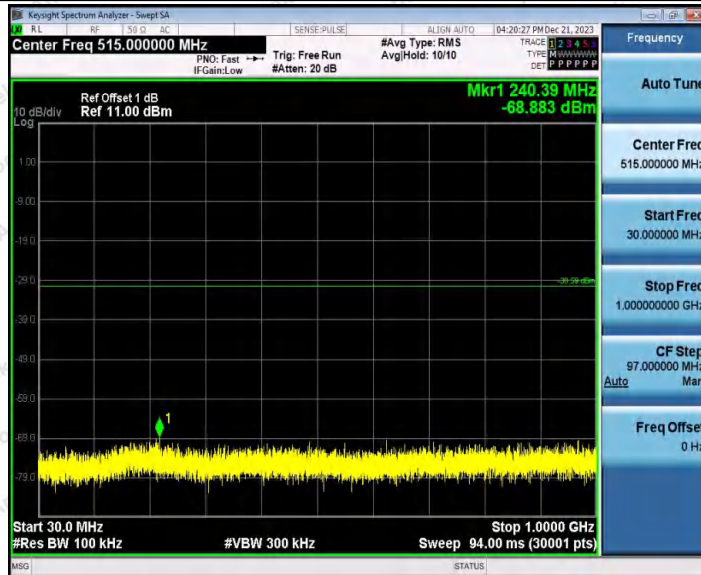
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11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



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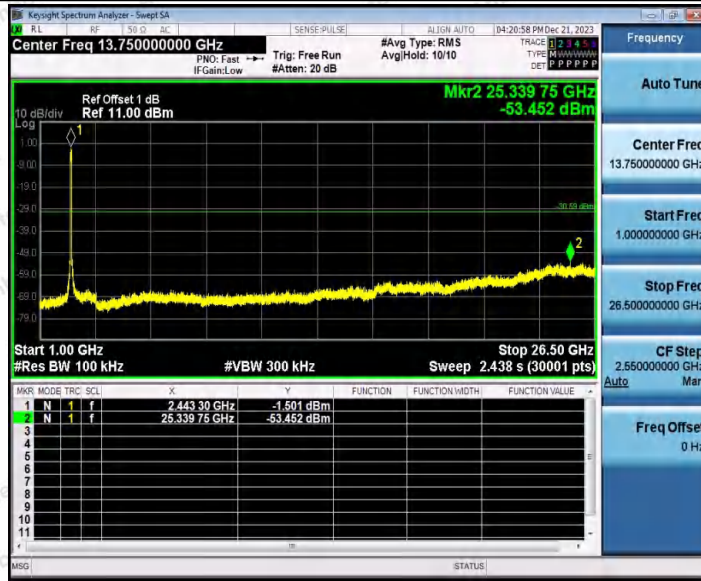
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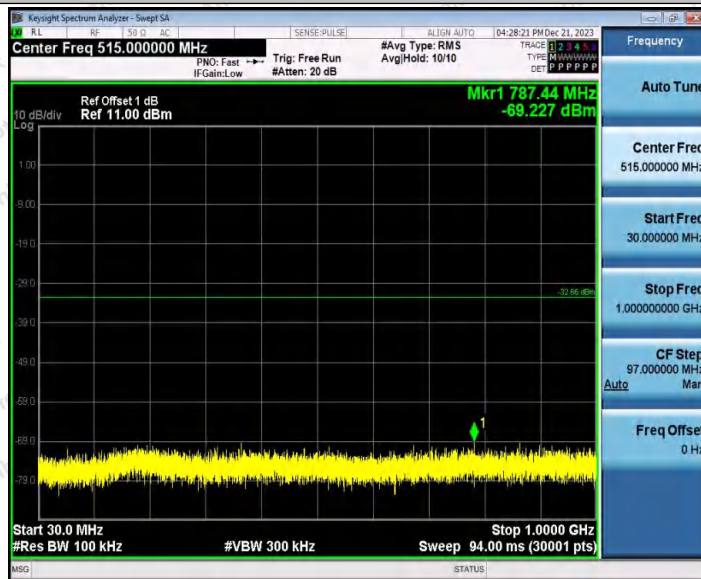




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11N40SISO_Ant1_2452_30~1000

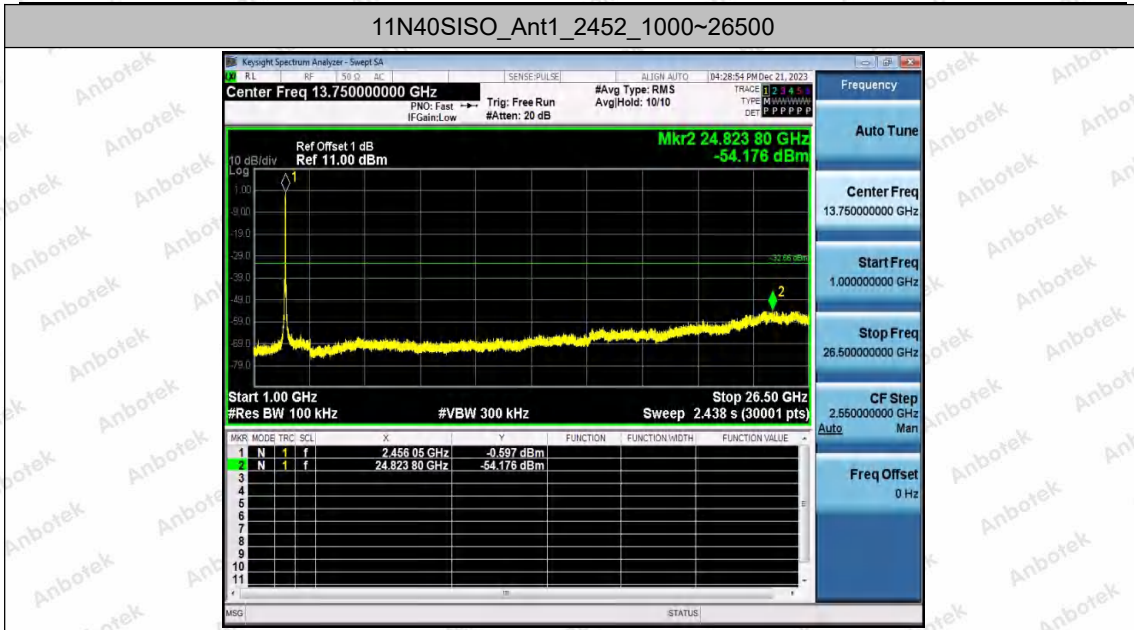


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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.37	8.41	99.52	0.02
		2437	8.39	8.41	99.76	0.01
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.40	1.43	97.90	0.09
		2437	1.39	1.42	97.89	0.09
		2462	1.40	1.43	97.90	0.09
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.34	97.01	0.13
11N40SISO	Ant1	2422	0.65	0.68	95.59	0.20
		2437	0.64	0.68	94.12	0.26
		2452	0.64	0.68	94.12	0.26

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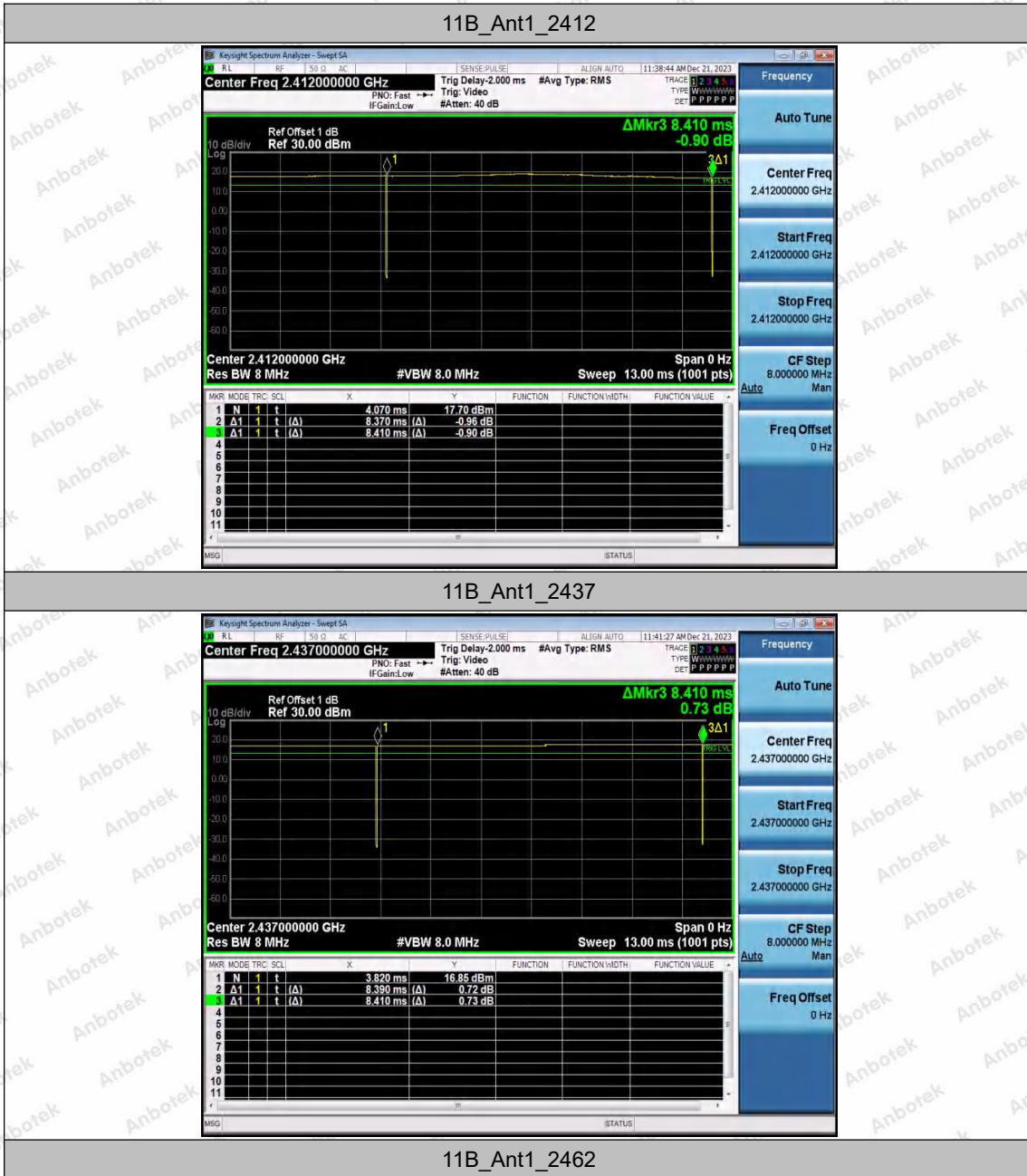
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Test Graphs



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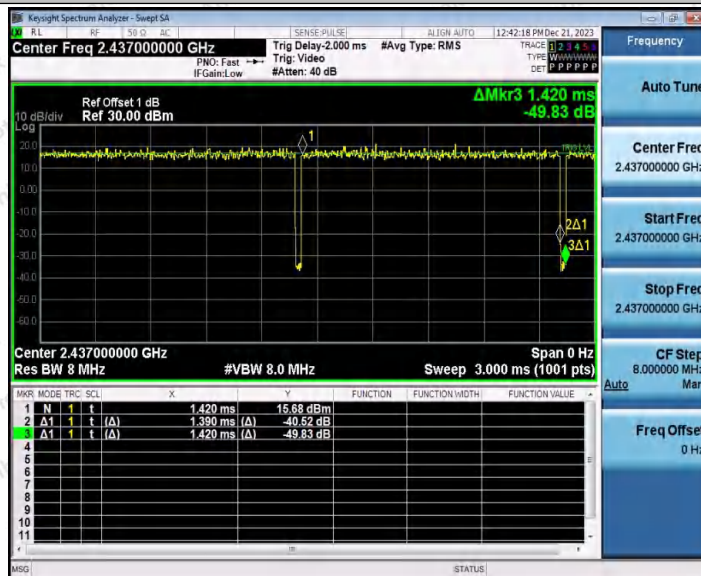




11G_Ant1_2412



11G_Ant1_2437

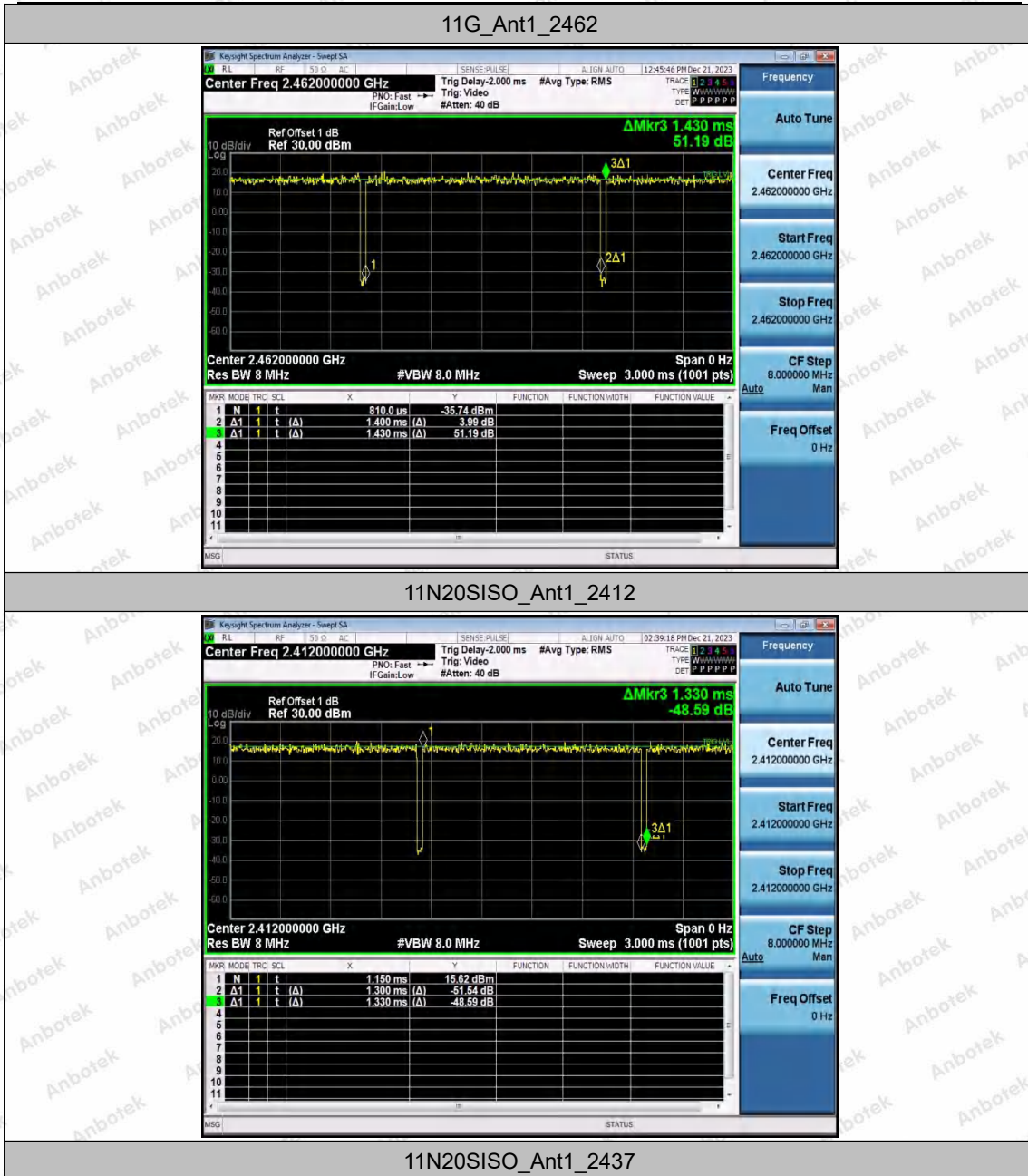


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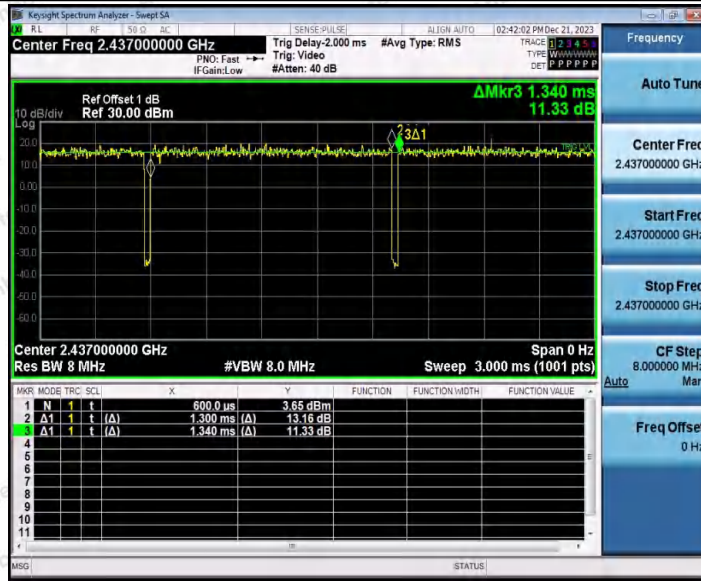


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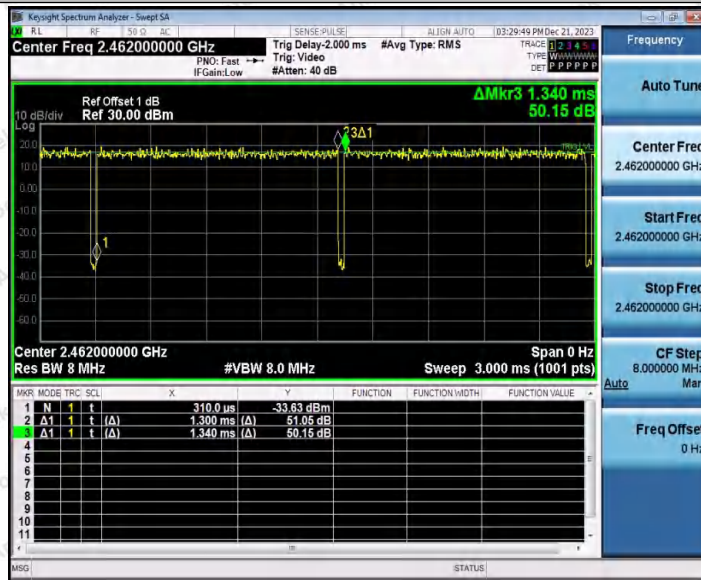
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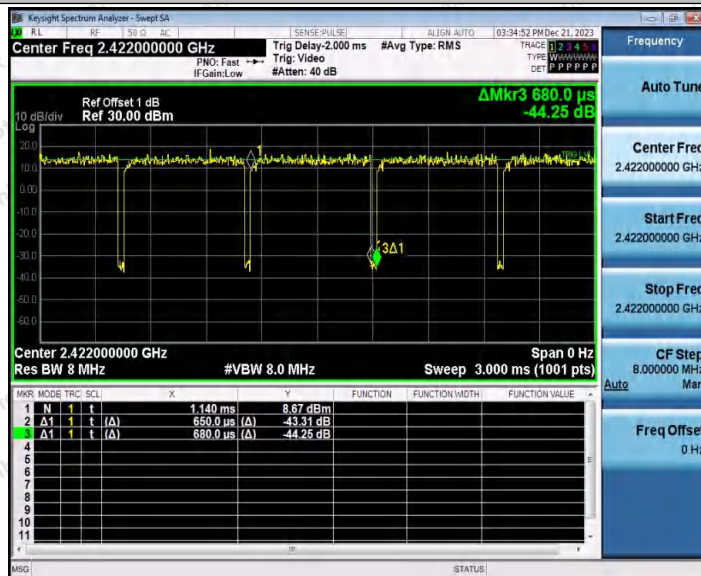




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



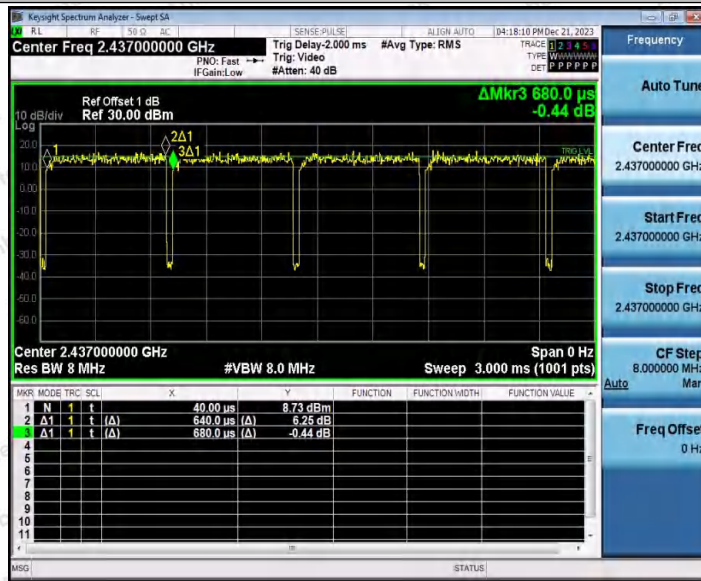
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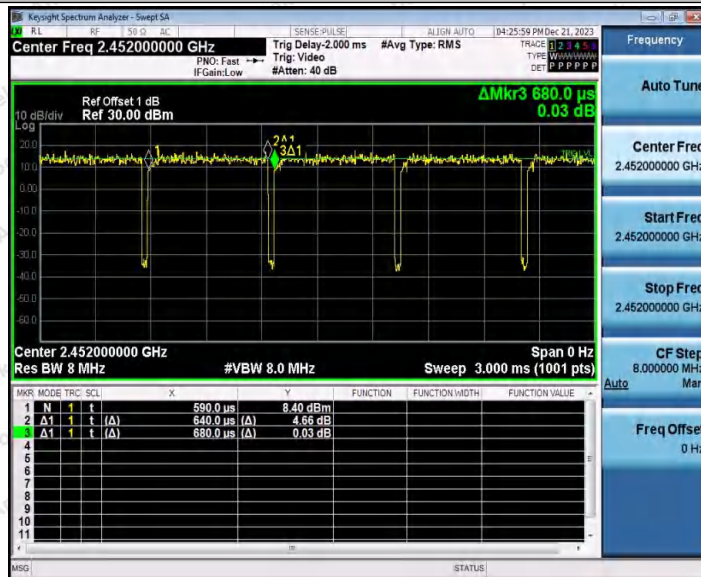
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



---End---

