

Appendix Test Data

Report No.:	18220WC40088402	Test Sample No.:	1-2-2
Start Test Date:	2024.05.22	Finish Test Date:	2024.05.23
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.2℃	Relative Humidity:	44%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.400	2416.920	0.5	PASS
11B	Ant1	2437	9.040	2432.400	2441.440	0.5	PASS
11B	Ant1	2462	9.040	2457.440	2466.480	0.5	PASS
11G	Ant1	2412	16.360	2403.760	2420.120	0.5	PASS
11G	Ant1	2437	16.080	2429.000	2445.080	0.5	PASS
11G	Ant1	2462	16.320	2453.800	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.160	2420.720	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.160	2445.720	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.160	2470.720	0.5	PASS



Test Graphs



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11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



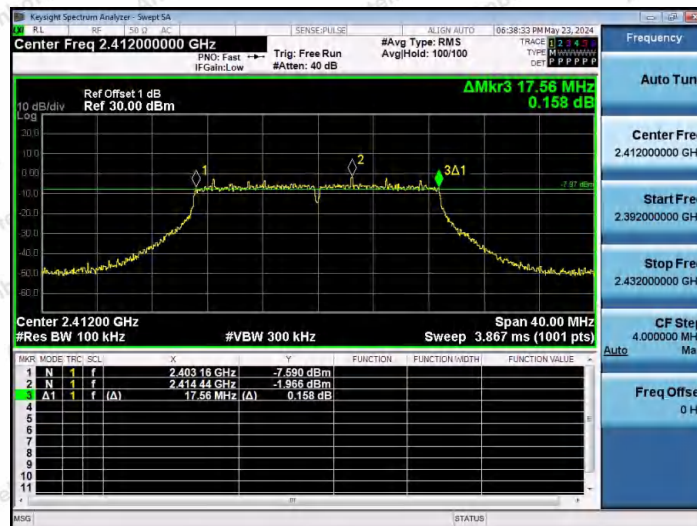
11G-Ant1-2462-PASS

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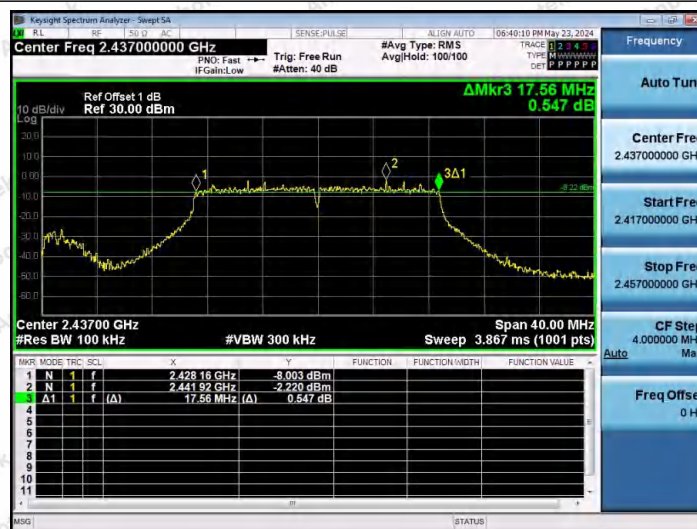
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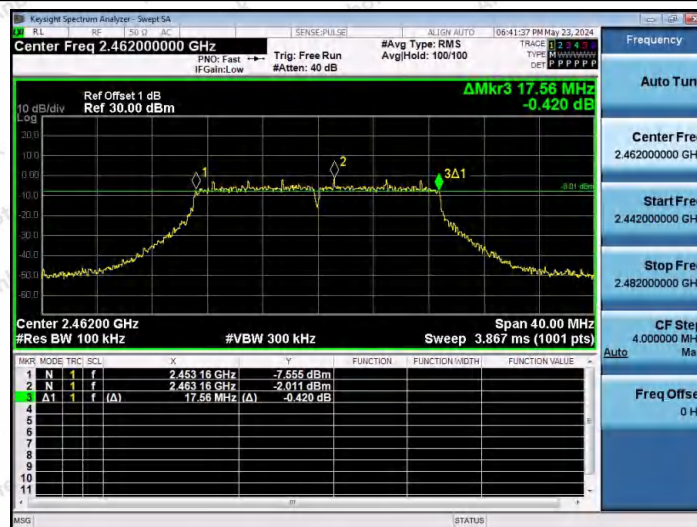




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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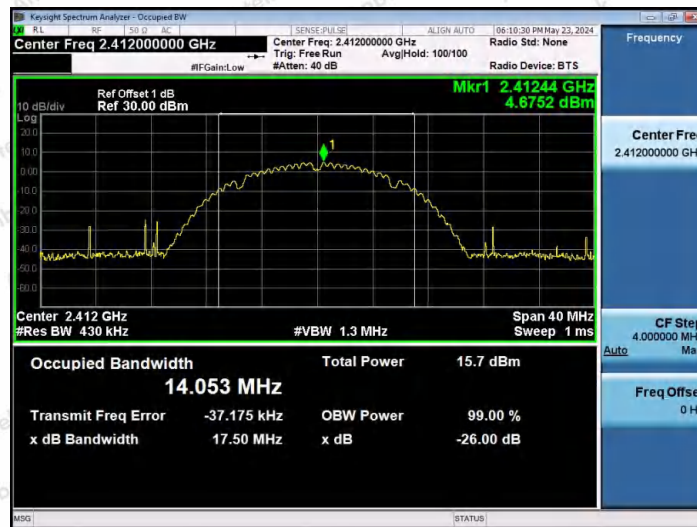
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.053	2404.9363	2418.9893	---	---
11B	Ant1	2437	14.066	2429.9180	2443.9840	---	---
11B	Ant1	2462	14.036	2454.9405	2468.9765	---	---
11G	Ant1	2412	17.209	2403.3417	2420.5507	---	---
11G	Ant1	2437	17.220	2428.3549	2445.5749	---	---
11G	Ant1	2462	17.065	2453.4444	2470.5094	---	---
11N20SISO	Ant1	2412	18.179	2402.9043	2421.0833	---	---
11N20SISO	Ant1	2437	18.224	2427.8389	2446.0629	---	---
11N20SISO	Ant1	2462	18.205	2452.8369	2471.0419	---	---



Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

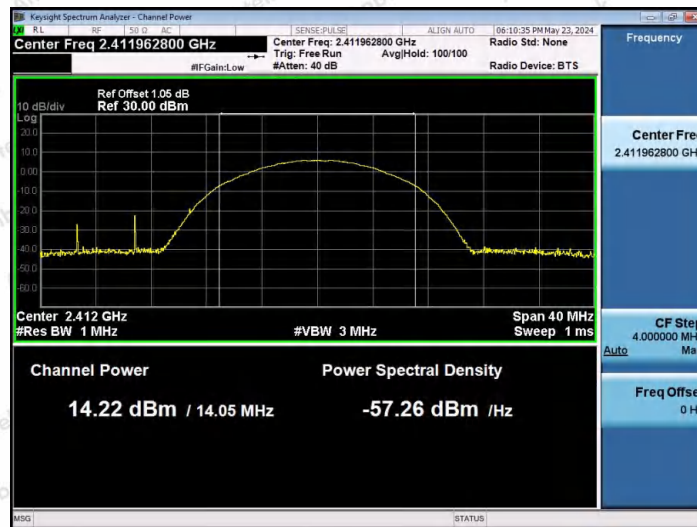
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.17	98.96	0.05	14.22	≤30.00	PASS
11B	Ant1	2437	14.28	98.96	0.05	14.33	≤30.00	PASS
11B	Ant1	2462	14.39	98.96	0.05	14.44	≤30.00	PASS
11G	Ant1	2412	13.75	94.06	0.27	14.02	≤30.00	PASS
11G	Ant1	2437	13.86	94.09	0.26	14.12	≤30.00	PASS
11G	Ant1	2462	14.00	94.09	0.26	14.26	≤30.00	PASS
11N20SISO	Ant1	2412	13.65	93.66	0.28	13.93	≤30.00	PASS
11N20SISO	Ant1	2437	13.78	93.66	0.28	14.06	≤30.00	PASS
11N20SISO	Ant1	2462	13.92	93.66	0.28	14.20	≤30.00	PASS

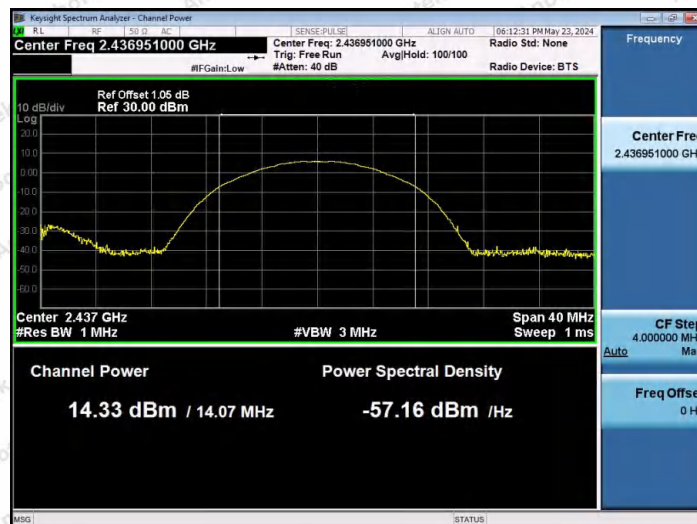
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



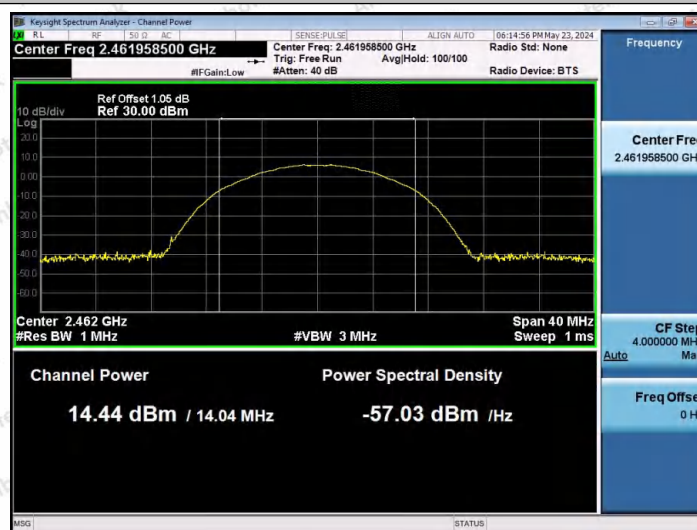
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

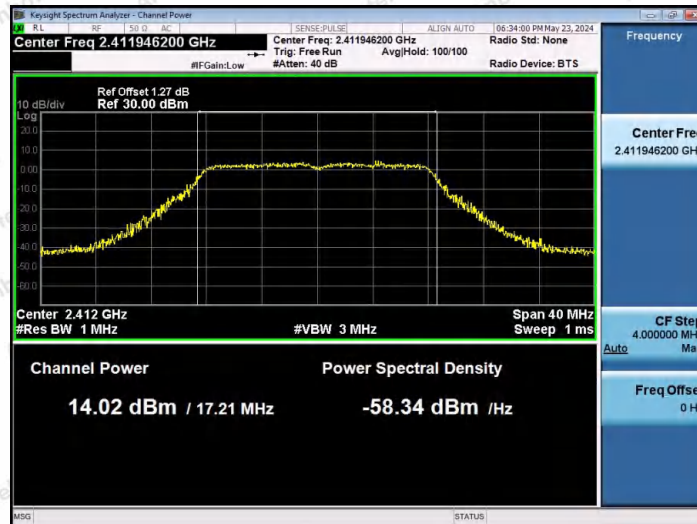
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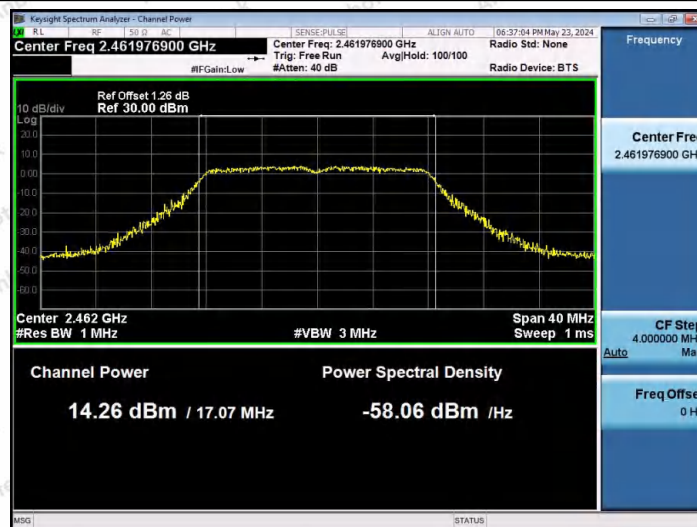




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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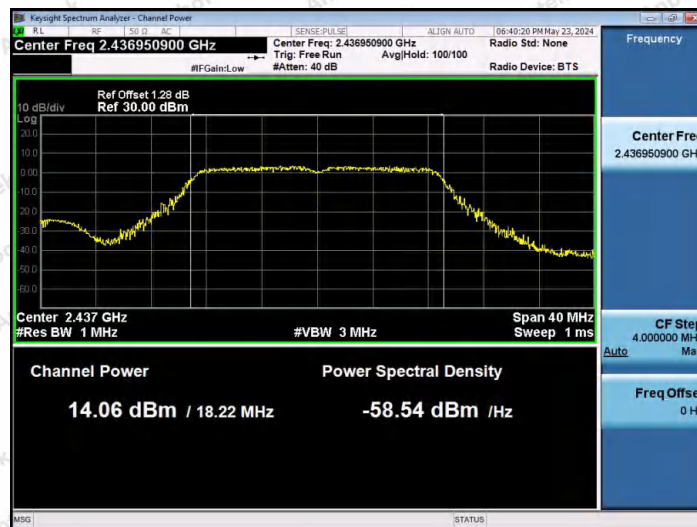


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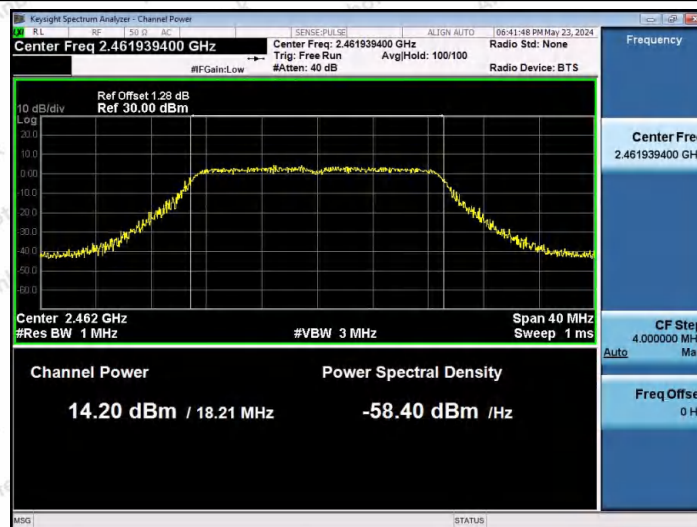




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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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	-8.79	-18.79	≤8.00	PASS
11B	Ant1	2437	-8.24	-18.24	≤8.00	PASS
11B	Ant1	2462	-8.46	-18.46	≤8.00	PASS
11G	Ant1	2412	-14.74	-24.74	≤8.00	PASS
11G	Ant1	2437	-14.31	-24.31	≤8.00	PASS
11G	Ant1	2462	-13.65	-23.65	≤8.00	PASS
11N20SIS O	Ant1	2412	-15.14	-25.14	≤8.00	PASS
11N20SIS O	Ant1	2437	-14.77	-24.77	≤8.00	PASS
11N20SIS O	Ant1	2462	-14.70	-24.70	≤8.00	PASS

Note:

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



Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

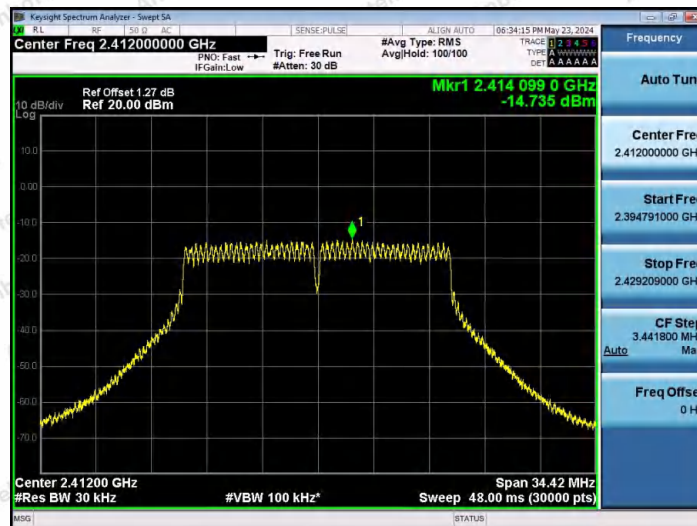
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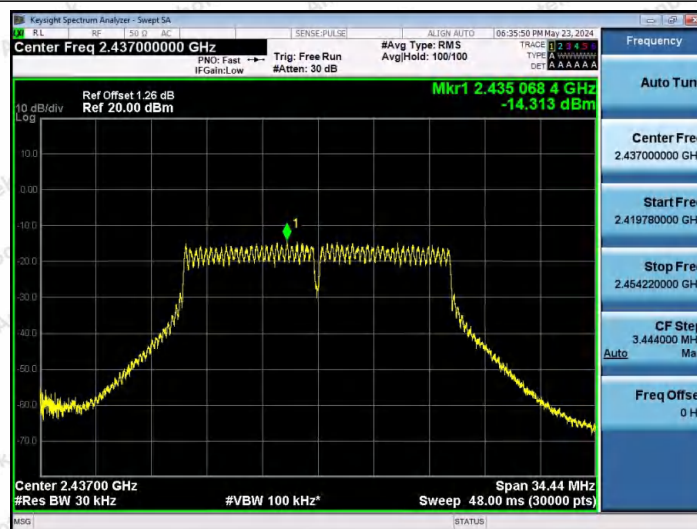


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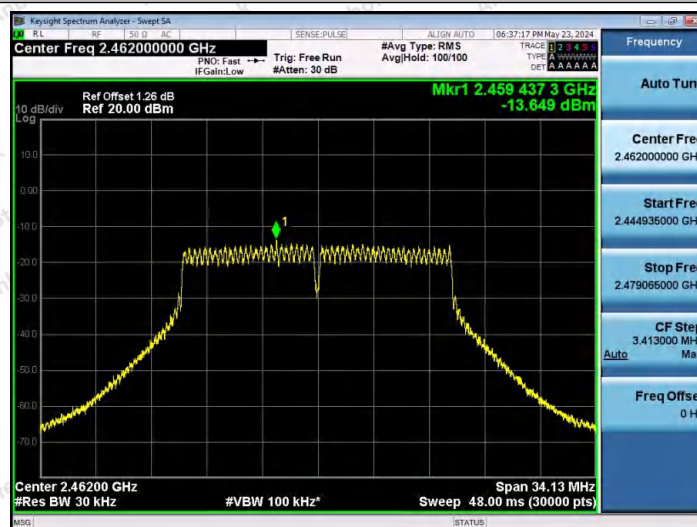




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

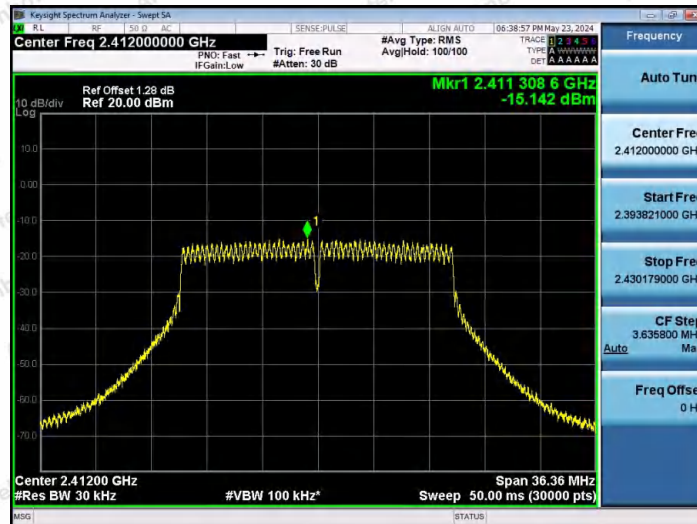
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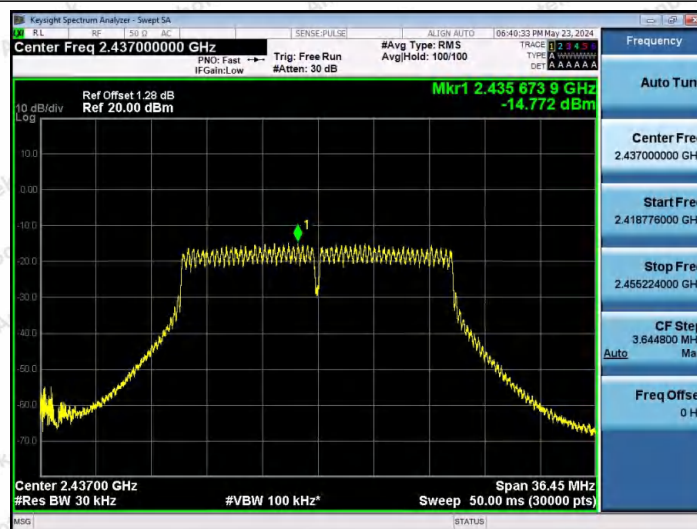


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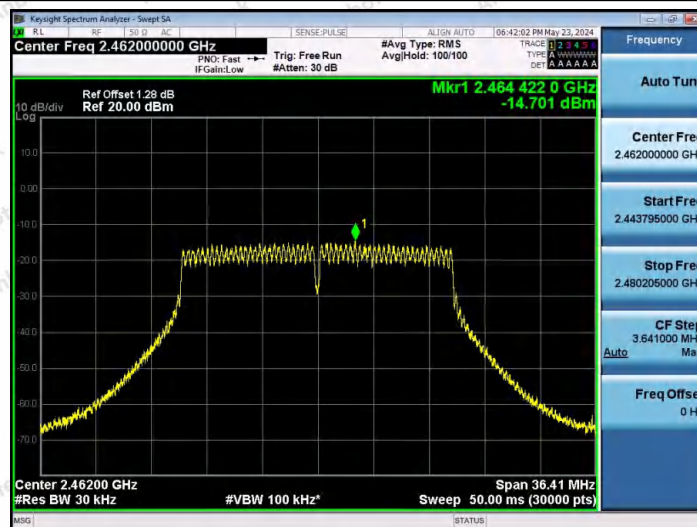




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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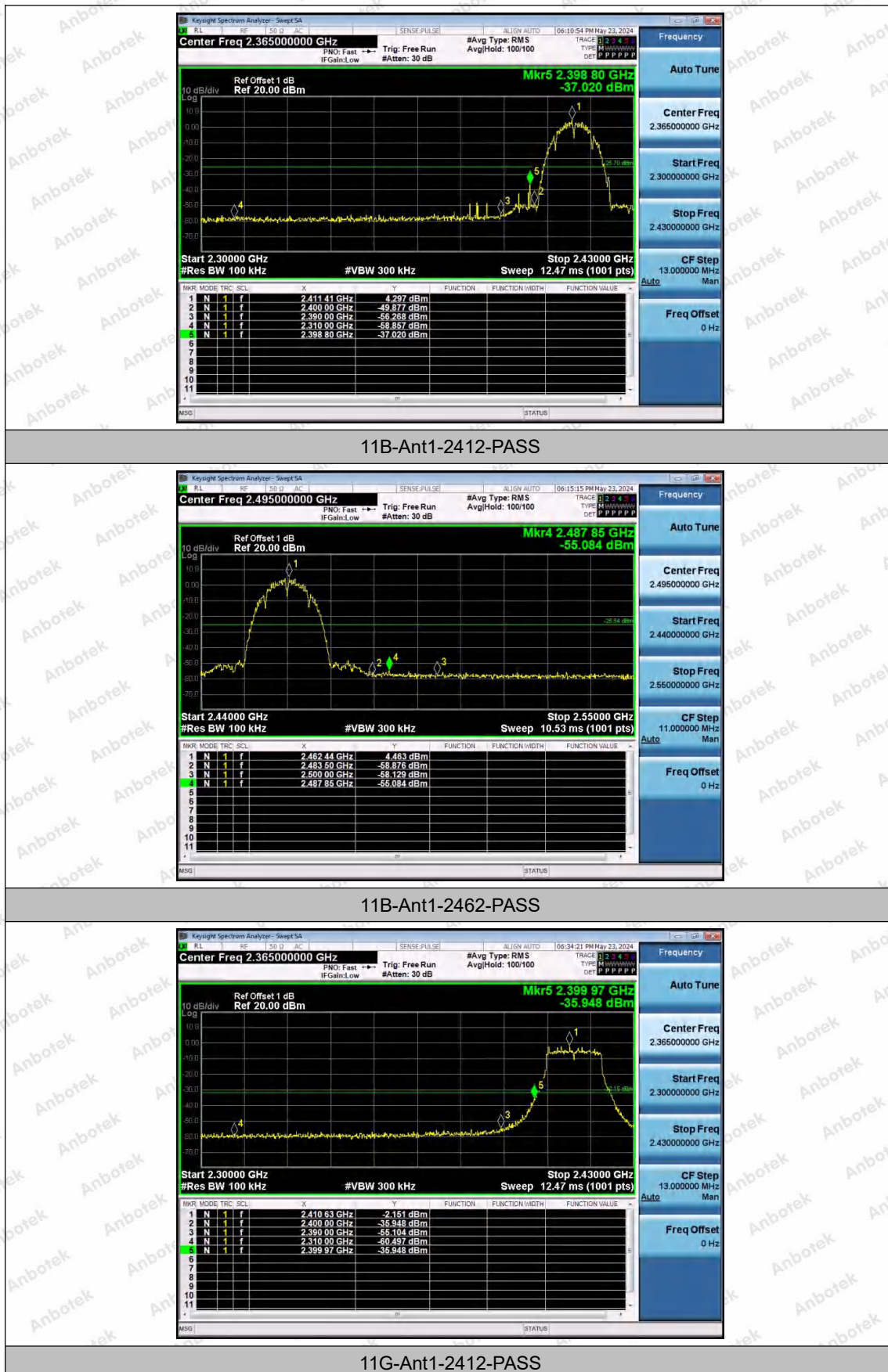
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.30	-37.02	≤-25.7	PASS
11B	Ant1	High	2462	4.46	-55.08	≤-25.54	PASS
11G	Ant1	Low	2412	-2.15	-35.95	≤-32.15	PASS
11G	Ant1	High	2462	-1.27	-54.77	≤-31.27	PASS
11N20SISO	Ant1	Low	2412	-2.07	-36.26	≤-32.07	PASS
11N20SISO	Ant1	High	2462	-1.87	-53.9	≤-31.87	PASS



Test Graphs



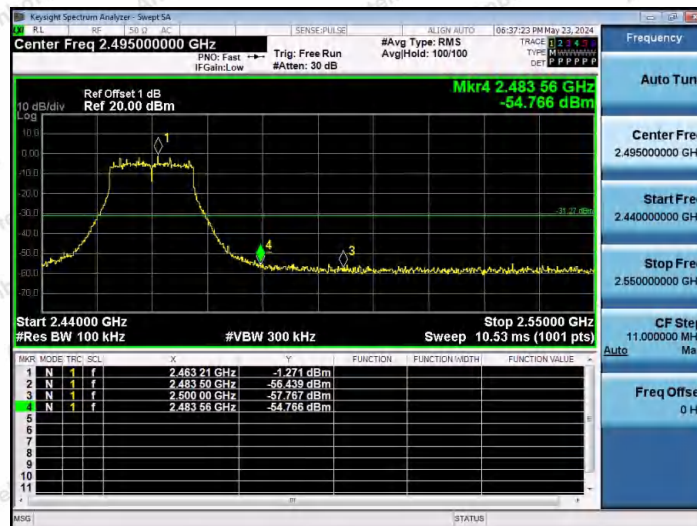
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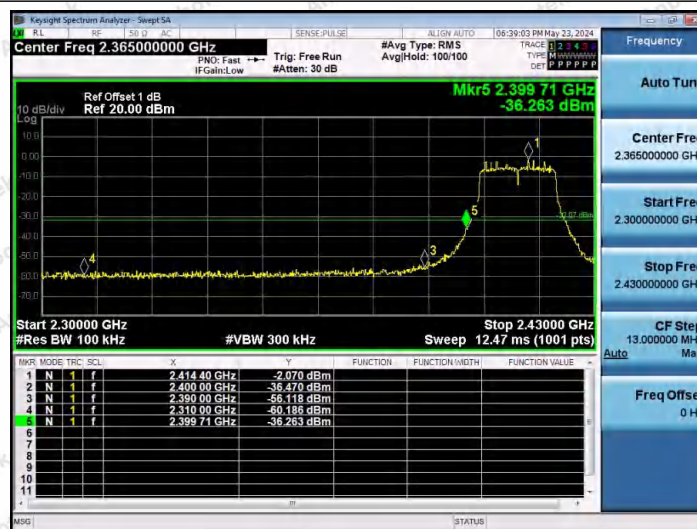


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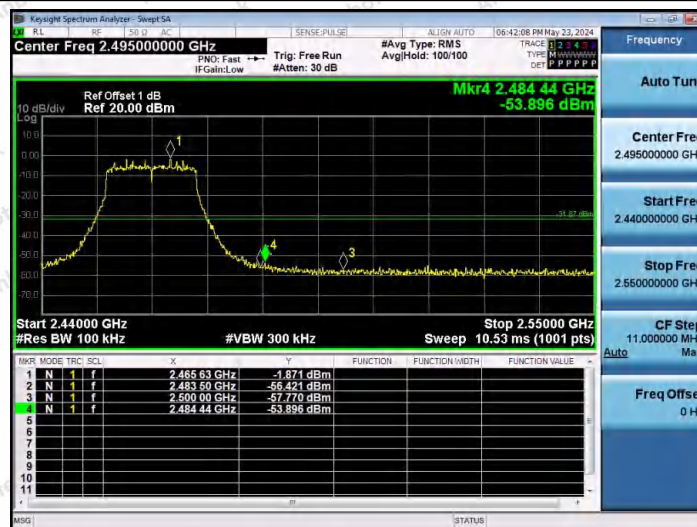




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

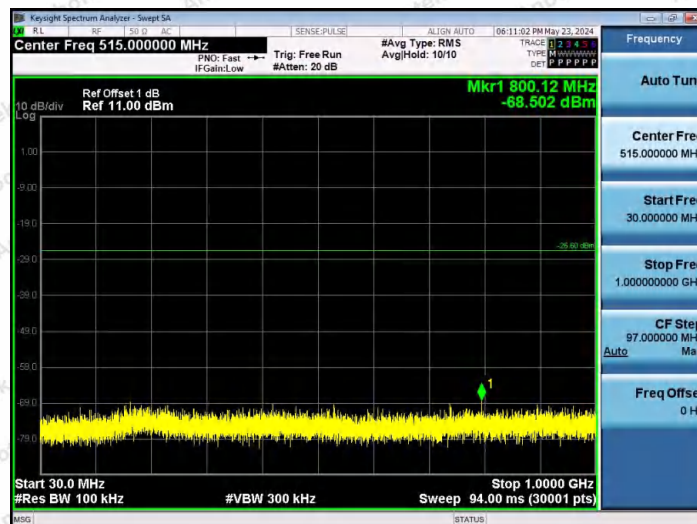
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.40	3.40	---	PASS
11B	Ant1	2412	30~1000	3.40	-68.5	≤-26.6	PASS
11B	Ant1	2412	1000~26500	3.40	-50.86	≤-26.6	PASS
11B	Ant1	2437	0~Reference	4.31	4.31	---	PASS
11B	Ant1	2437	30~1000	4.31	-68.48	≤-25.69	PASS
11B	Ant1	2437	1000~26500	4.31	-44.18	≤-25.69	PASS
11B	Ant1	2462	0~Reference	3.44	3.44	---	PASS
11B	Ant1	2462	30~1000	3.44	-68.13	≤-26.56	PASS
11B	Ant1	2462	1000~26500	3.44	-53.45	≤-26.56	PASS
11G	Ant1	2412	0~Reference	-1.52	-1.52	---	PASS
11G	Ant1	2412	30~1000	-1.52	-68.58	≤-31.52	PASS
11G	Ant1	2412	1000~26500	-1.52	-48.15	≤-31.52	PASS
11G	Ant1	2437	0~Reference	-4.67	-4.67	---	PASS
11G	Ant1	2437	30~1000	-4.67	-67.85	≤-34.67	PASS
11G	Ant1	2437	1000~26500	-4.67	-53.75	≤-34.67	PASS
11G	Ant1	2462	0~Reference	-3.87	-3.87	---	PASS
11G	Ant1	2462	30~1000	-3.87	-68.79	≤-33.87	PASS
11G	Ant1	2462	1000~26500	-3.87	-53.16	≤-33.87	PASS
11N20SISO	Ant1	2412	0~Reference	-5.32	-5.32	---	PASS
11N20SISO	Ant1	2412	30~1000	-5.32	-67.72	≤-35.32	PASS
11N20SISO	Ant1	2412	1000~26500	-5.32	-42.71	≤-35.32	PASS
11N20SISO	Ant1	2437	0~Reference	-4.84	-4.84	---	PASS
11N20SISO	Ant1	2437	30~1000	-4.84	-49.28	≤-34.84	PASS
11N20SISO	Ant1	2437	1000~26500	-4.84	-45.16	≤-34.84	PASS
11N20SISO	Ant1	2462	0~Reference	-1.41	-1.41	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.41	-53.27	≤-31.41	PASS
11N20SISO	Ant1	2462	1000~26500	-1.41	-53.17	≤-31.41	PASS



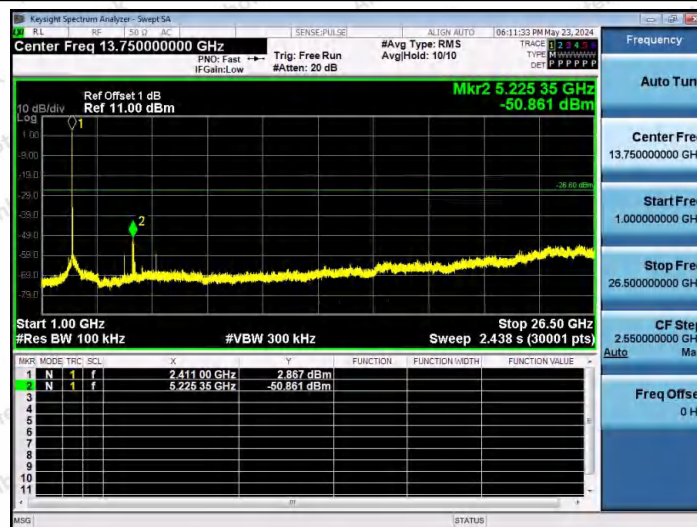
Test Graphs



11B-Ant1-2412-0~Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS

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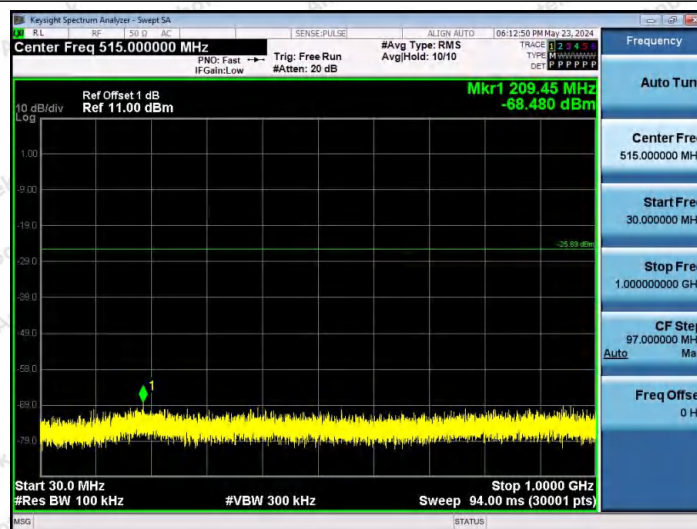


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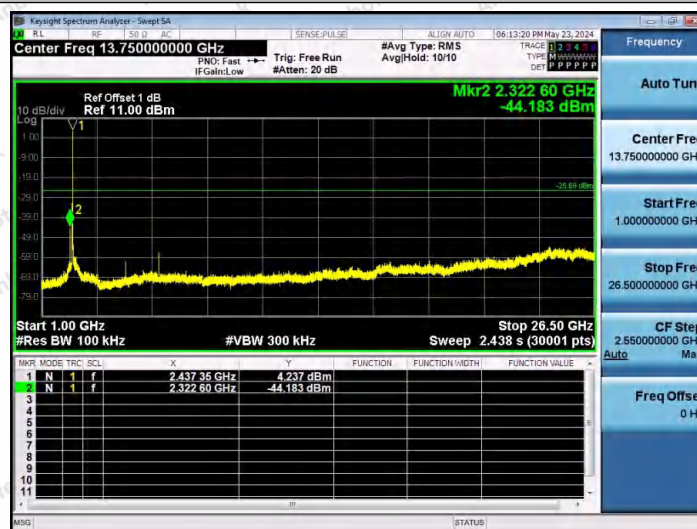




11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS

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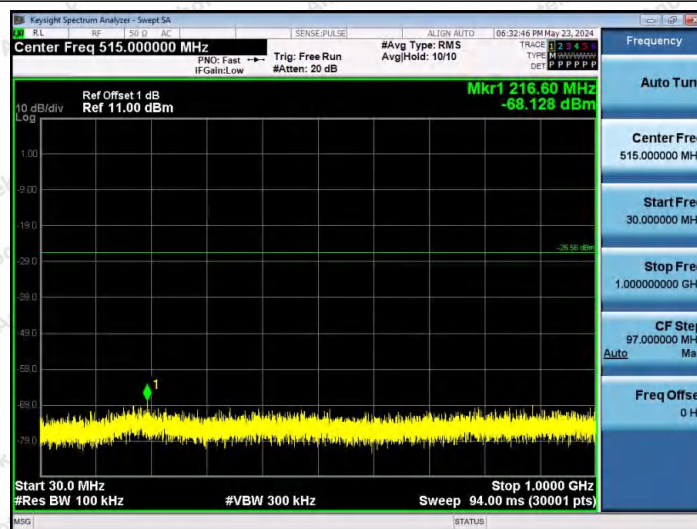


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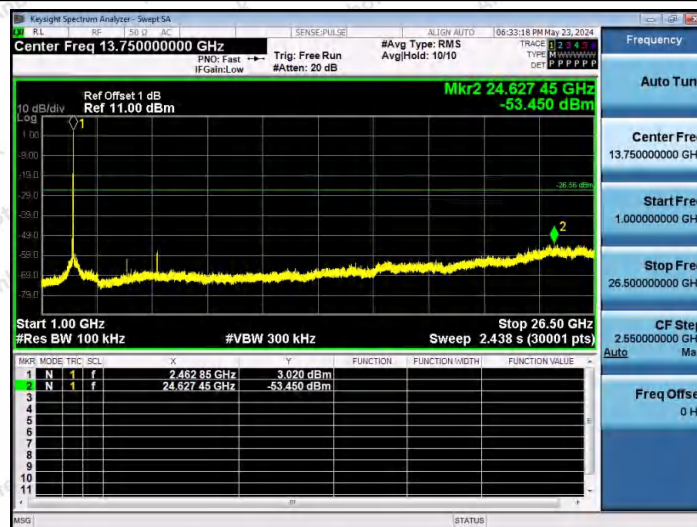




11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS

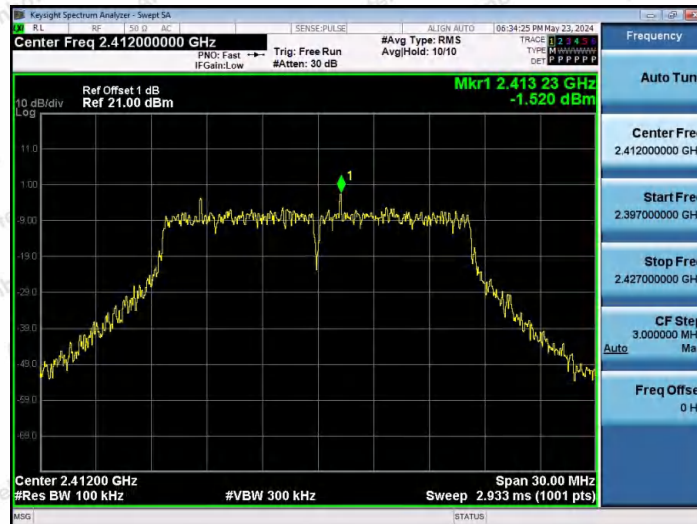
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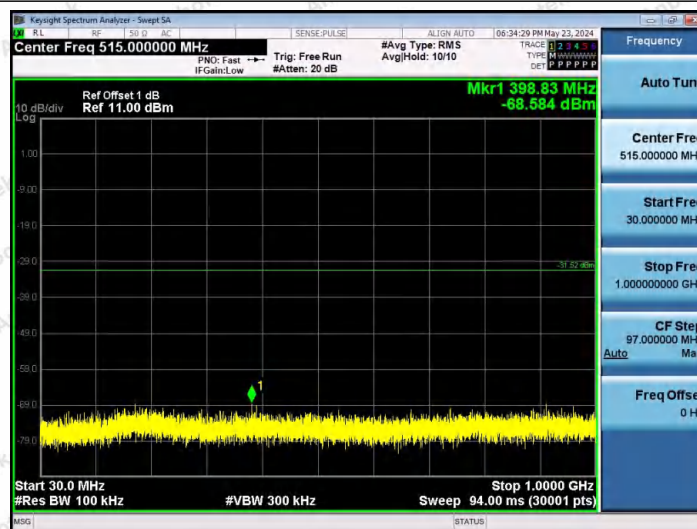


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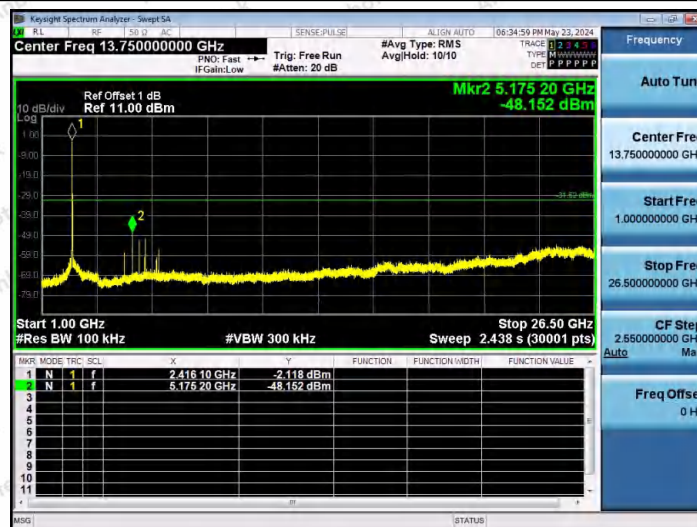




11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS

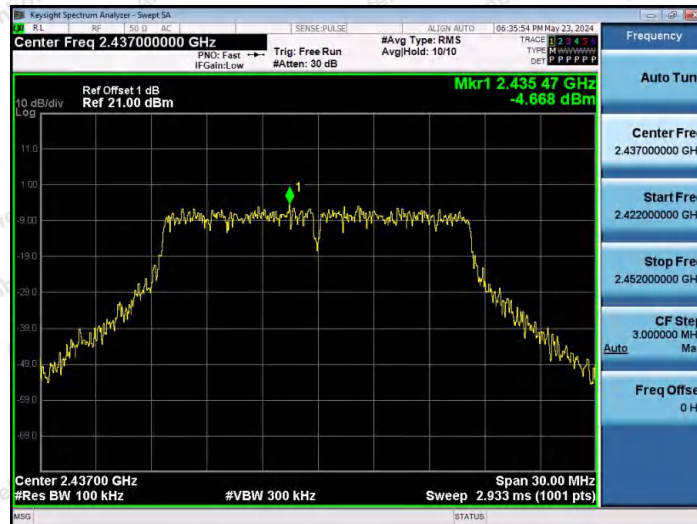
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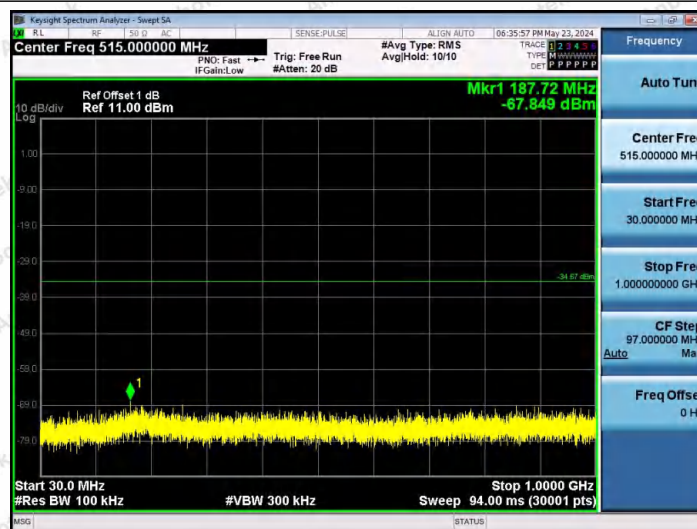


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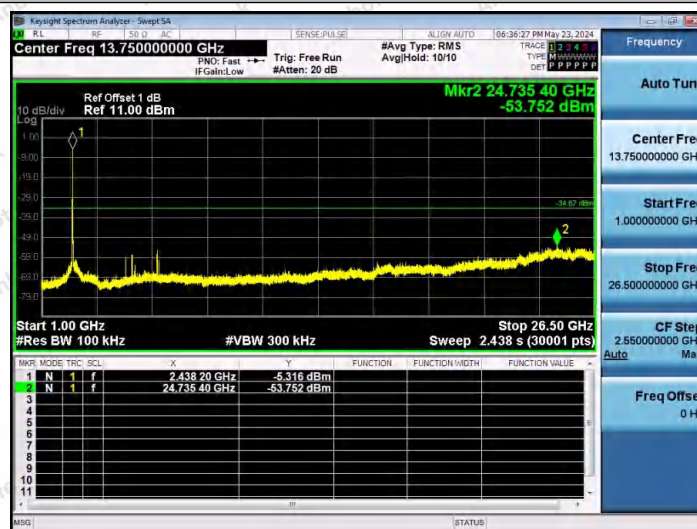




11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS

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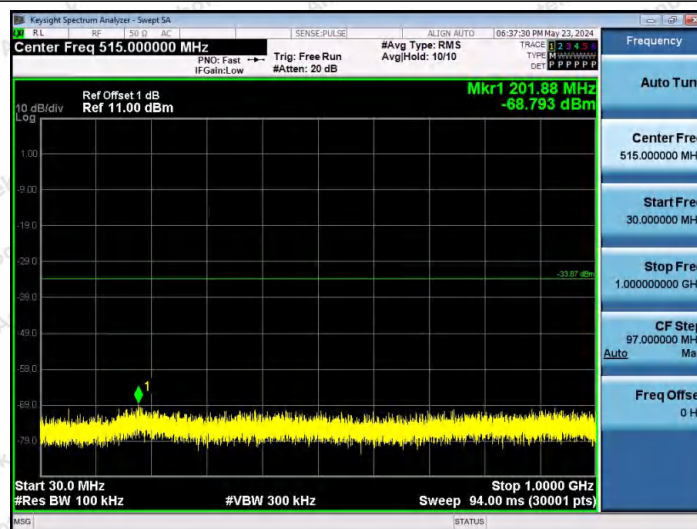
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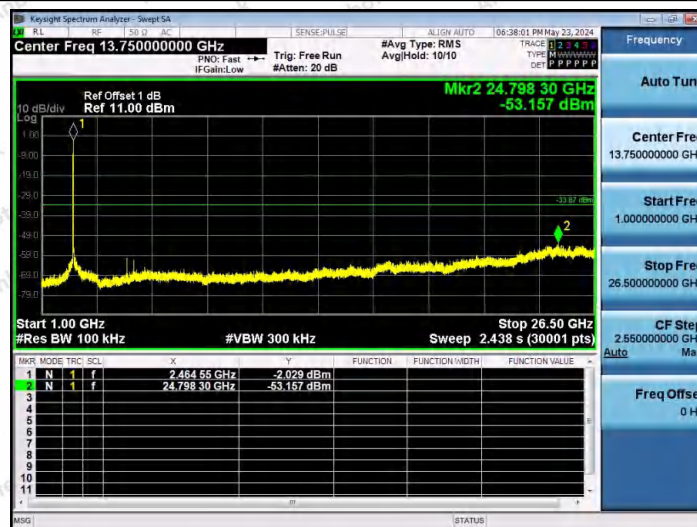




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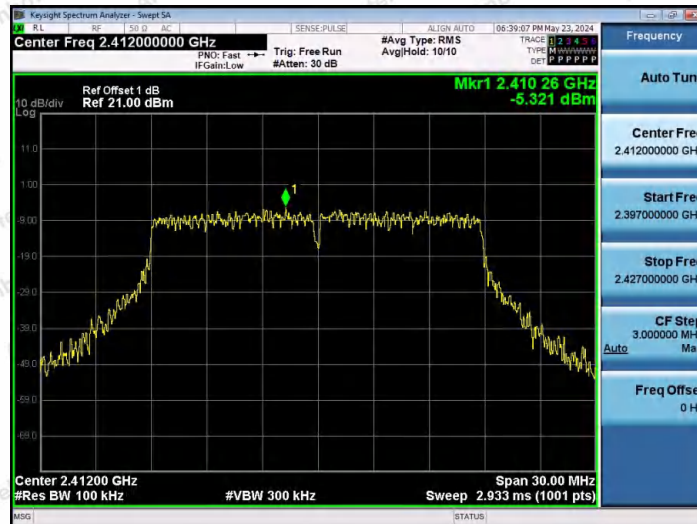
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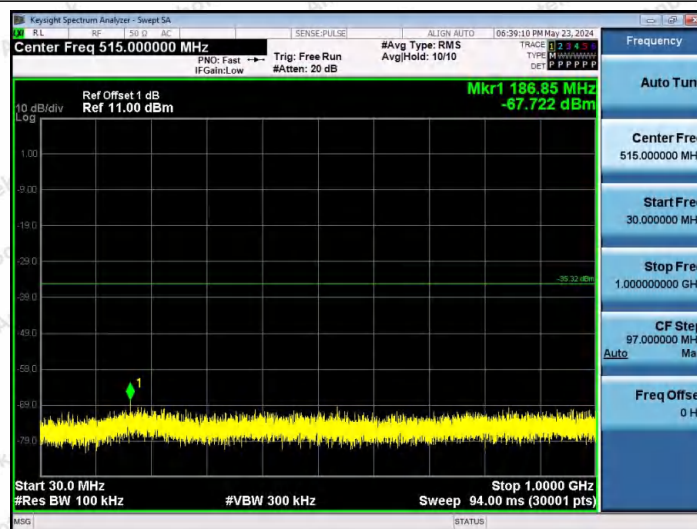


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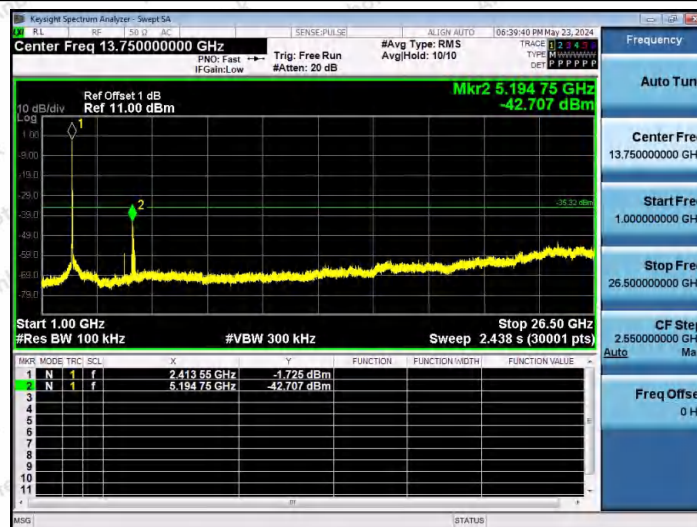




11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS



11N20SISO-Ant1-2412-1000~26500-PASS

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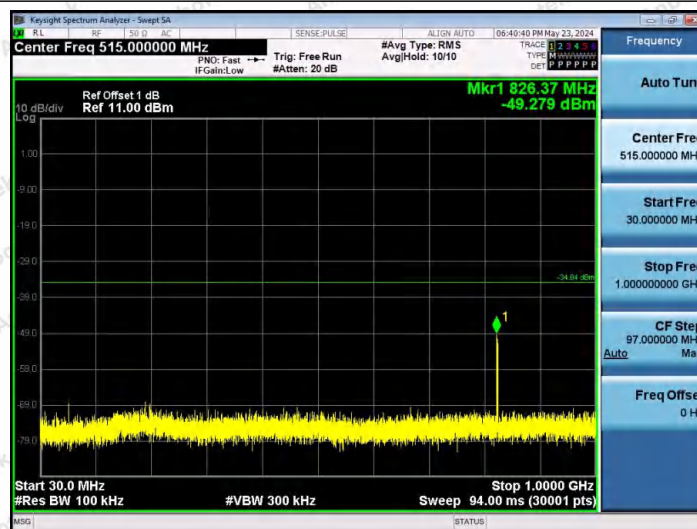


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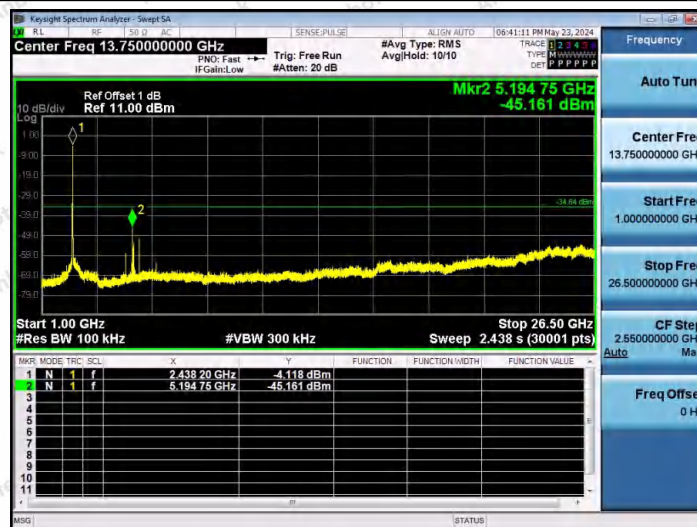




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11N20SISO-Ant1-2437-30~1000-PASS



11N20SISO-Ant1-2437-1000~26500-PASS

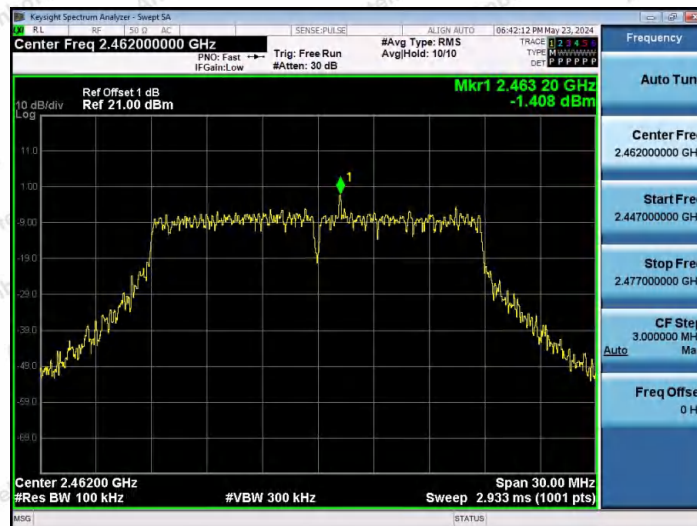
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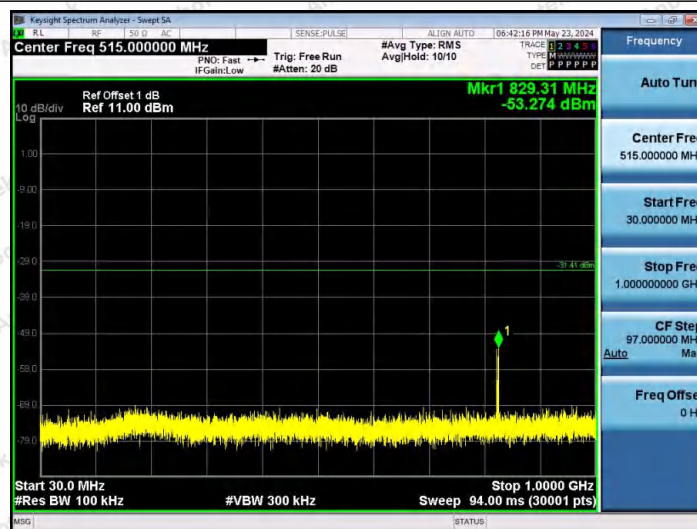


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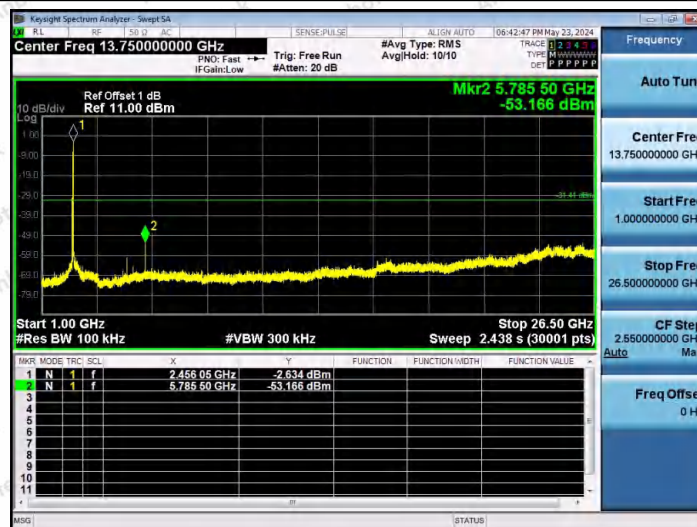




11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

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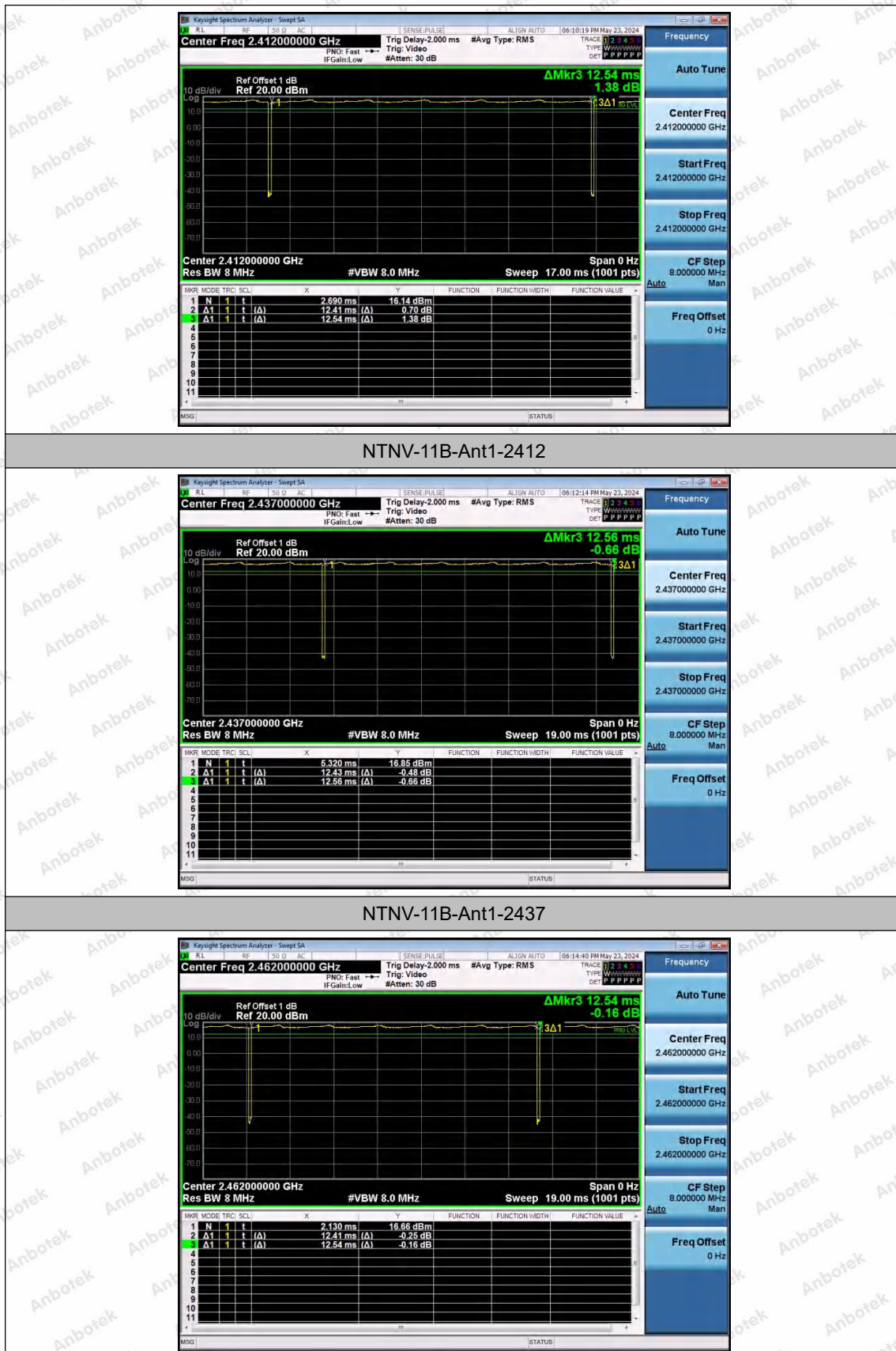
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.41	12.54	98.96	0.05
11B	Ant1	2437	12.43	12.56	98.96	0.05
11B	Ant1	2462	12.41	12.54	98.96	0.05
11G	Ant1	2412	2.06	2.19	94.06	0.27
11G	Ant1	2437	2.07	2.20	94.09	0.26
11G	Ant1	2462	2.07	2.20	94.09	0.26
11N20SISO	Ant1	2412	1.92	2.05	93.66	0.28
11N20SISO	Ant1	2437	1.92	2.05	93.66	0.28
11N20SISO	Ant1	2462	1.92	2.05	93.66	0.28



Test Graphs



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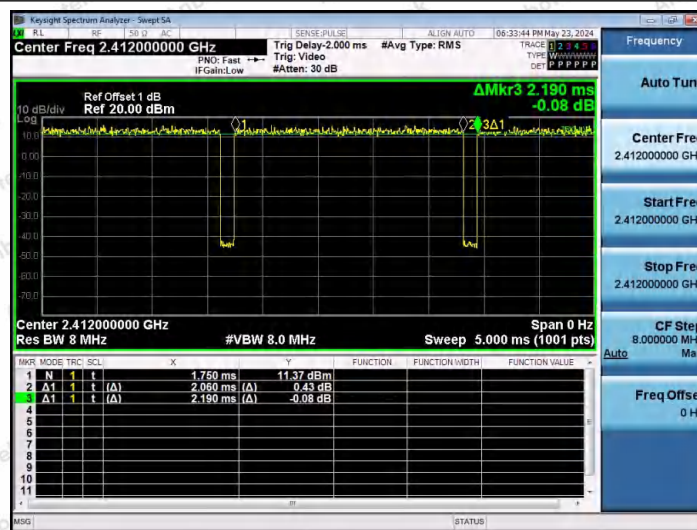
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



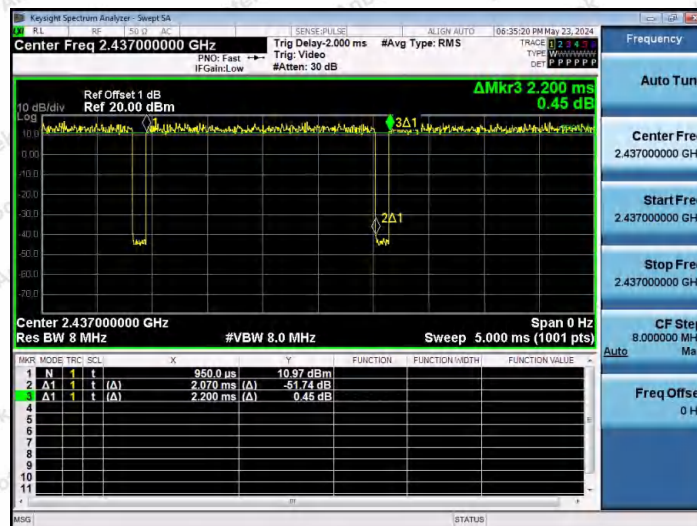
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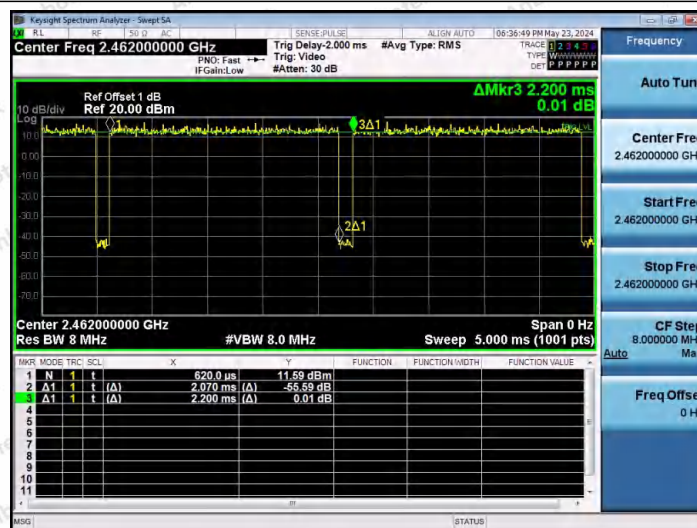
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

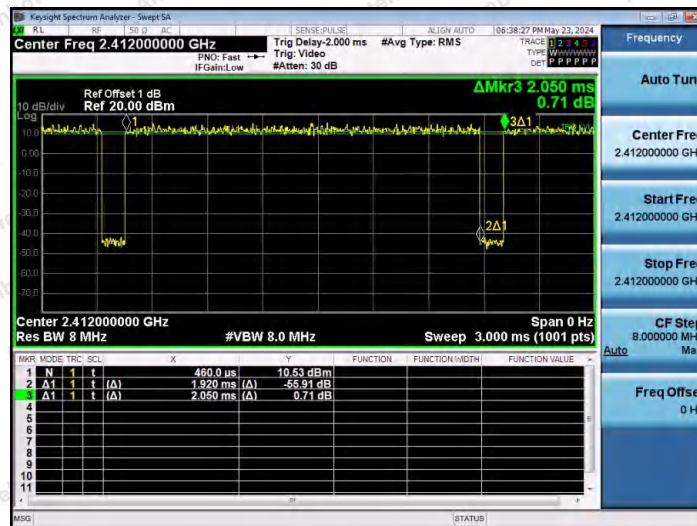
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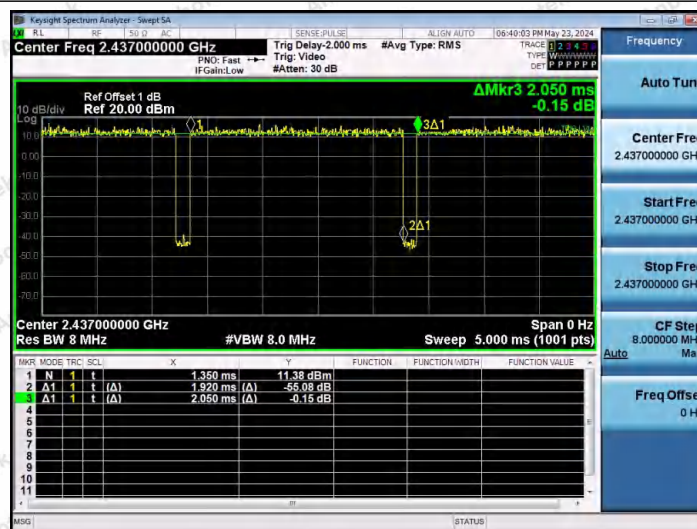


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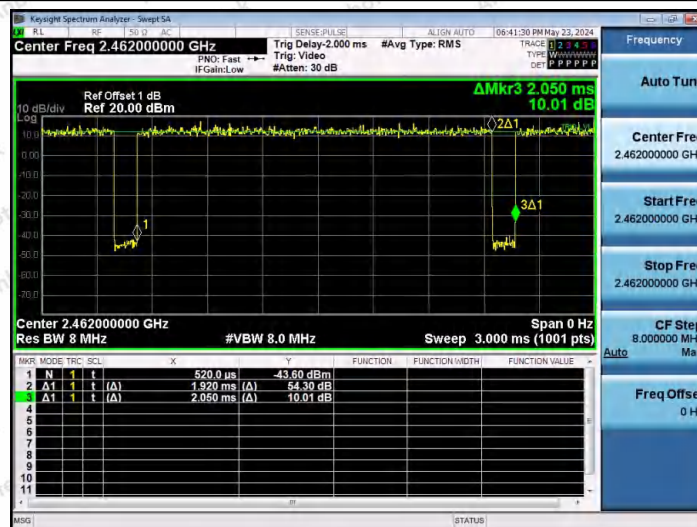




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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