

Appendix Test Data

Report No.:	18220WC40094301	Test Sample No.:	1-2-2
Start Test Date:	2024.05.13	Finish Test Date:	2024.05.15
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	47%
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	8.520	2407.400	2415.920	0.5	PASS
11B	Ant1	2437	8.560	2432.320	2440.880	0.5	PASS
11B	Ant1	2462	8.600	2457.360	2465.960	0.5	PASS
11G	Ant1	2412	16.360	2403.680	2420.040	0.5	PASS
11G	Ant1	2437	16.320	2428.720	2445.040	0.5	PASS
11G	Ant1	2462	16.360	2453.680	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.080	2420.640	0.5	PASS
11N20SISO	Ant1	2437	17.520	2428.120	2445.640	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.080	2470.640	0.5	PASS



Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

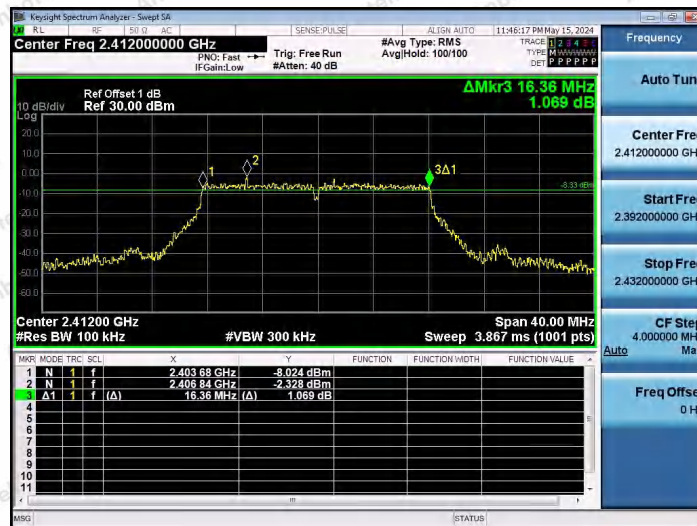
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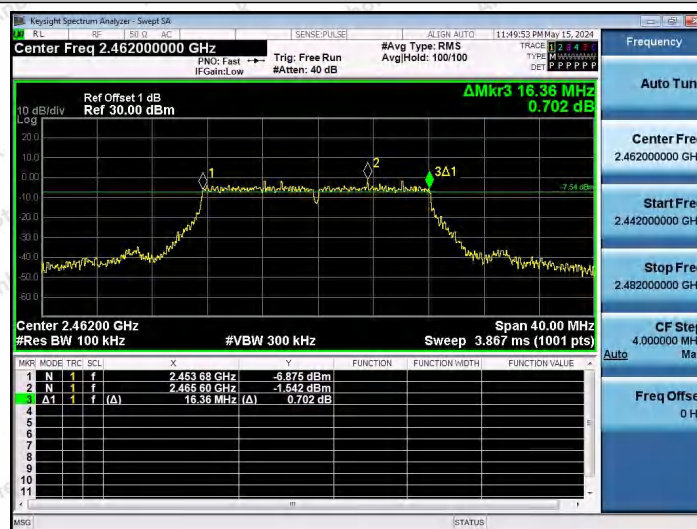




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



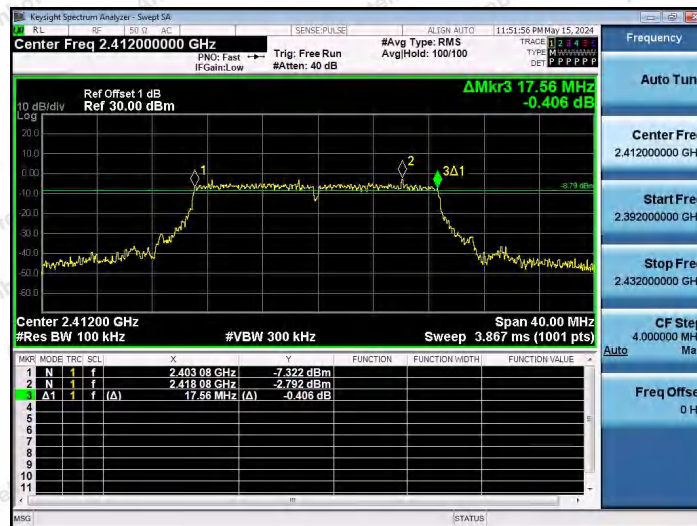
11G-Ant1-2462-PASS

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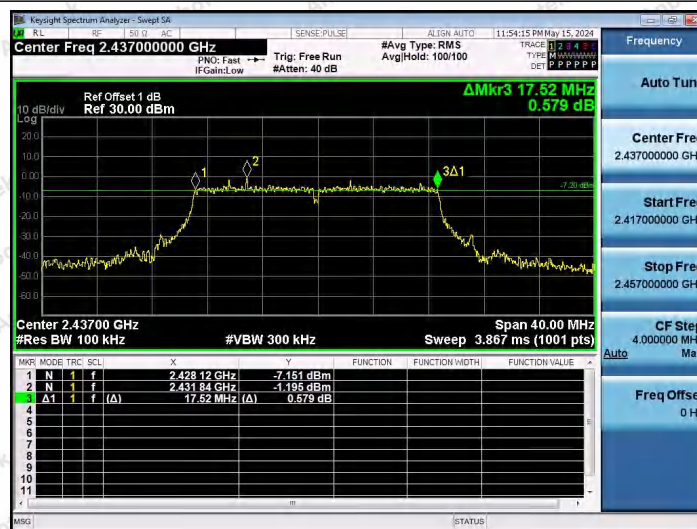
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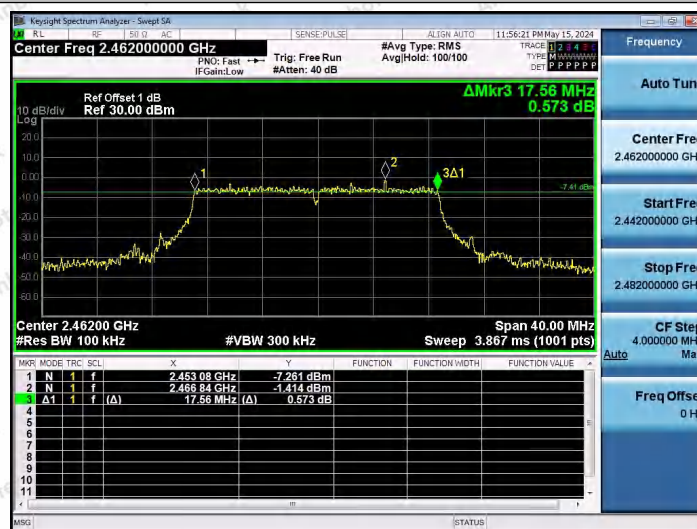




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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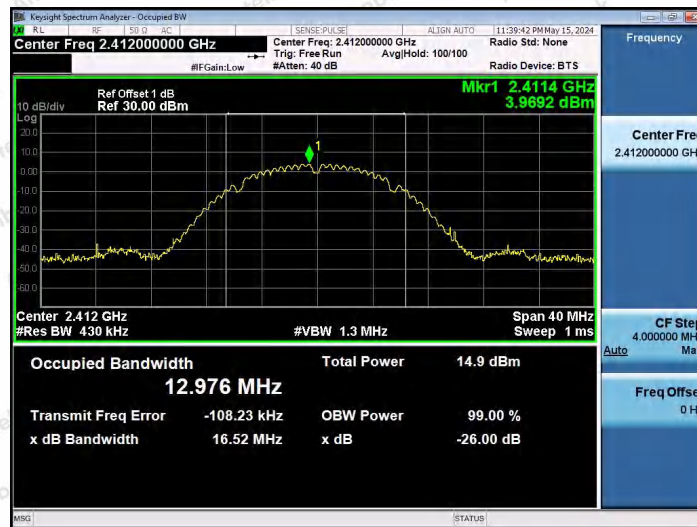
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.976	2405.4038	2418.3798	---	---
11B	Ant1	2437	12.968	2430.4011	2443.3691	---	---
11B	Ant1	2462	12.951	2455.4092	2468.3602	---	---
11G	Ant1	2412	16.993	2403.4178	2420.4108	---	---
11G	Ant1	2437	17.007	2428.4035	2445.4105	---	---
11G	Ant1	2462	17.128	2453.3595	2470.4875	---	---
11N20SISO	Ant1	2412	17.991	2402.8949	2420.8859	---	---
11N20SISO	Ant1	2437	18.047	2427.8641	2445.9111	---	---
11N20SISO	Ant1	2462	18.022	2452.8654	2470.8874	---	---



Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

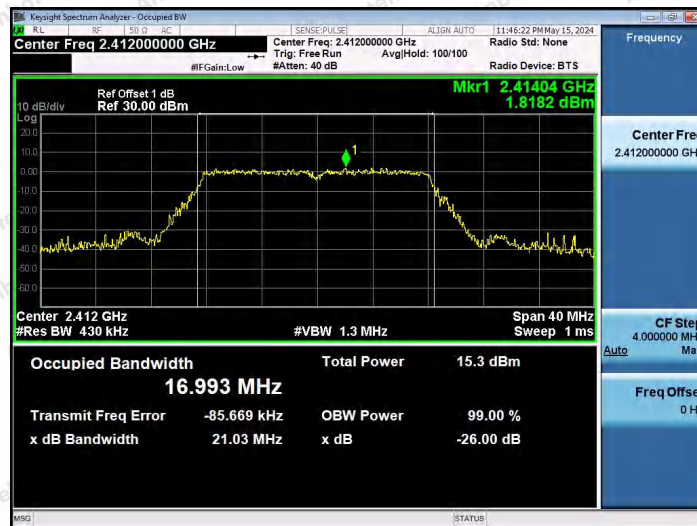
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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

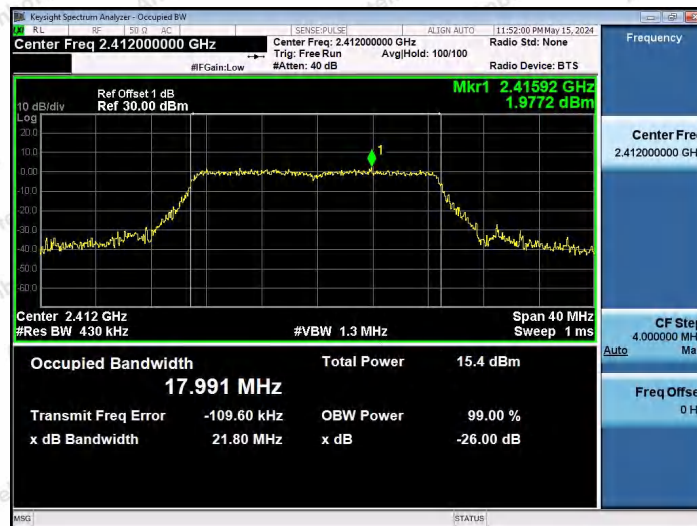
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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

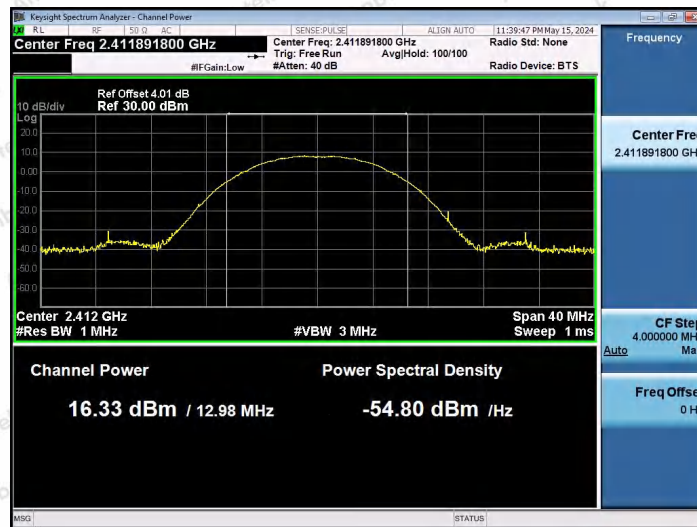
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.32	50.00	3.01	16.33	≤30.00	PASS
11B	Ant1	2437	14.09	50.15	3.00	17.09	≤30.00	PASS
11B	Ant1	2462	14.17	49.41	3.06	17.23	≤30.00	PASS
11G	Ant1	2412	13.56	45.80	3.39	16.95	≤30.00	PASS
11G	Ant1	2437	14.68	49.75	3.03	17.71	≤30.00	PASS
11G	Ant1	2462	14.31	49.63	3.04	17.35	≤30.00	PASS
11N20SISO	Ant1	2412	13.56	50.40	2.98	16.54	≤30.00	PASS
11N20SISO	Ant1	2437	13.69	50.53	2.96	16.65	≤30.00	PASS
11N20SISO	Ant1	2462	14.17	50.40	2.98	17.15	≤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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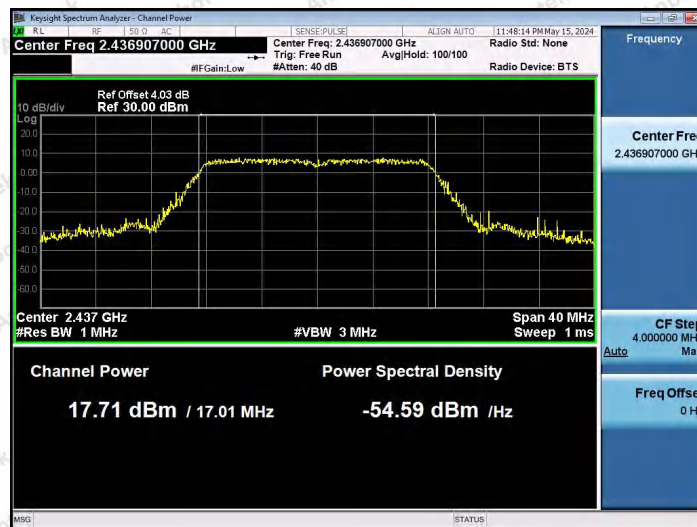


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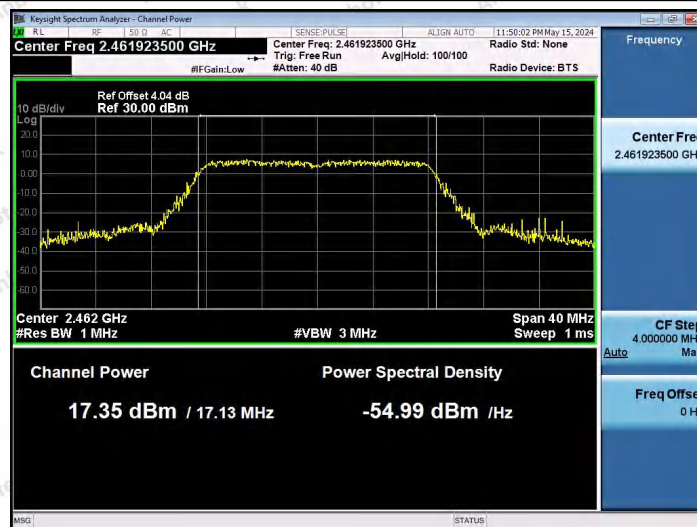




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

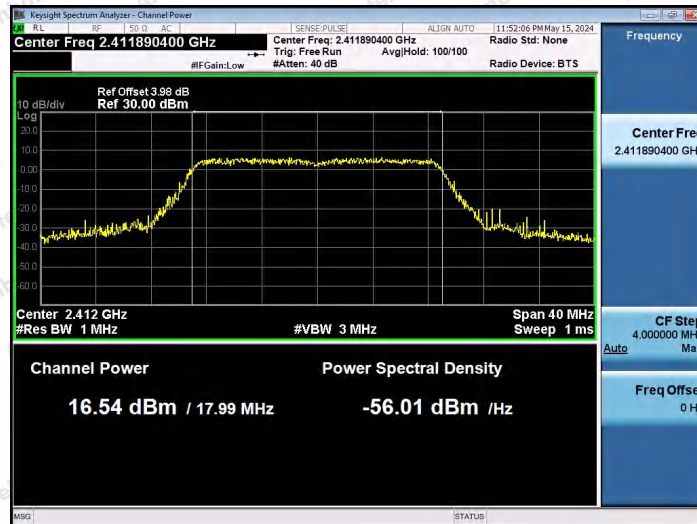
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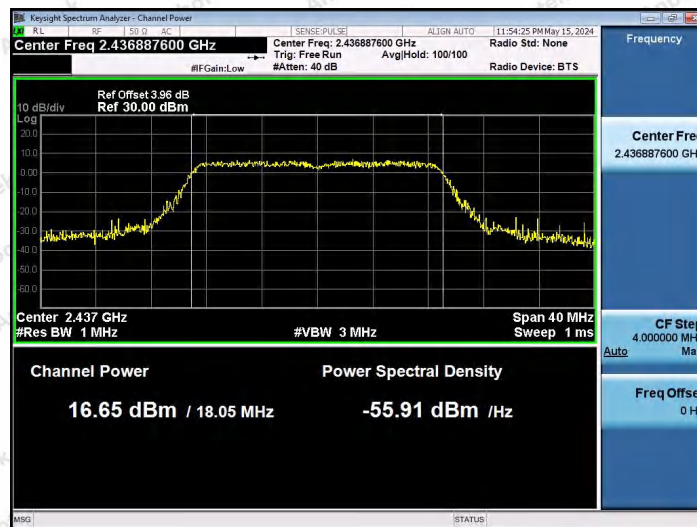


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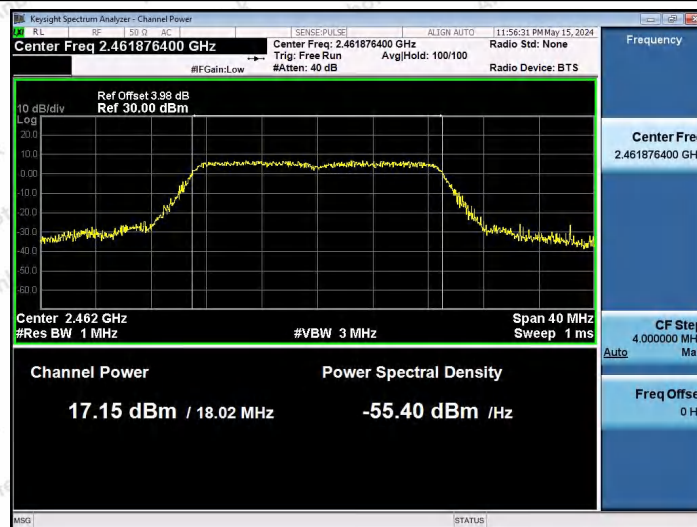




11N20SISO-Ant1-2412-PASS



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	-9.19	-19.19	≤8.00	PASS
11B	Ant1	2437	-8.44	-18.44	≤8.00	PASS
11B	Ant1	2462	-7.75	-17.75	≤8.00	PASS
11G	Ant1	2412	-13.43	-23.43	≤8.00	PASS
11G	Ant1	2437	-13.16	-23.16	≤8.00	PASS
11G	Ant1	2462	-13.45	-23.45	≤8.00	PASS
11N20SISO	Ant1	2412	-13.96	-23.96	≤8.00	PASS
11N20SISO	Ant1	2437	-13.87	-23.87	≤8.00	PASS
11N20SISO	Ant1	2462	-13.55	-23.55	≤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

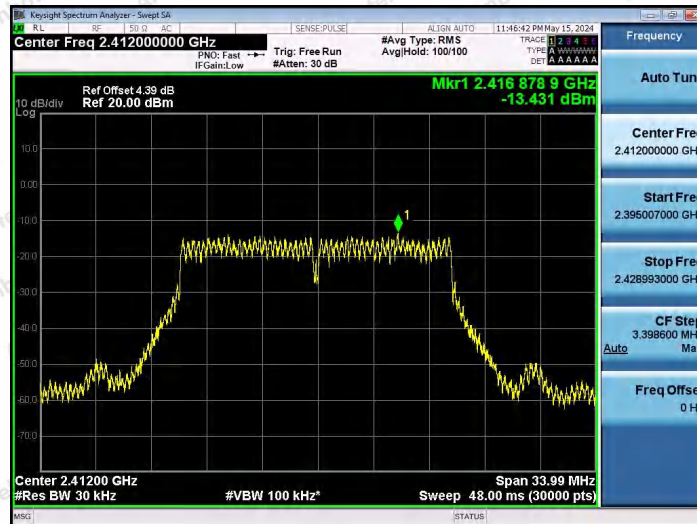
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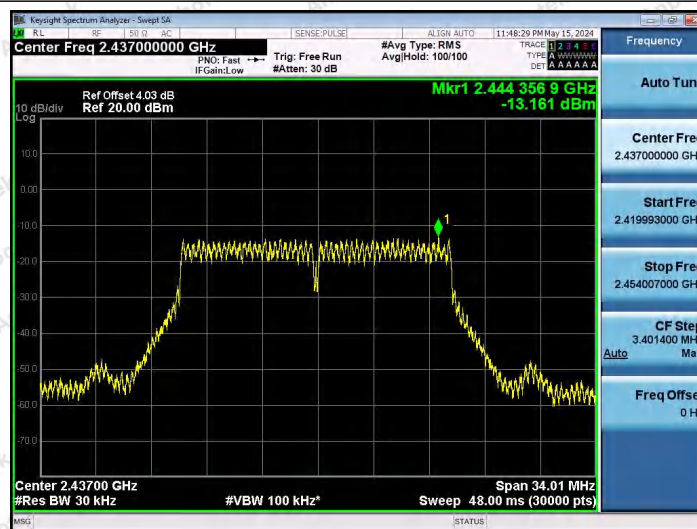


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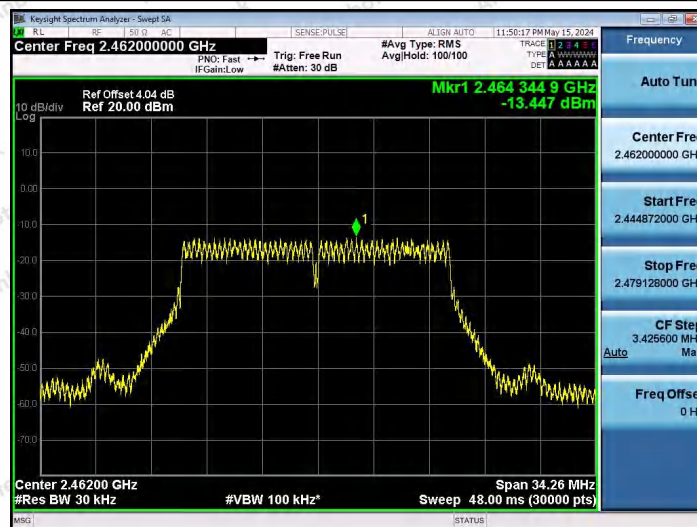




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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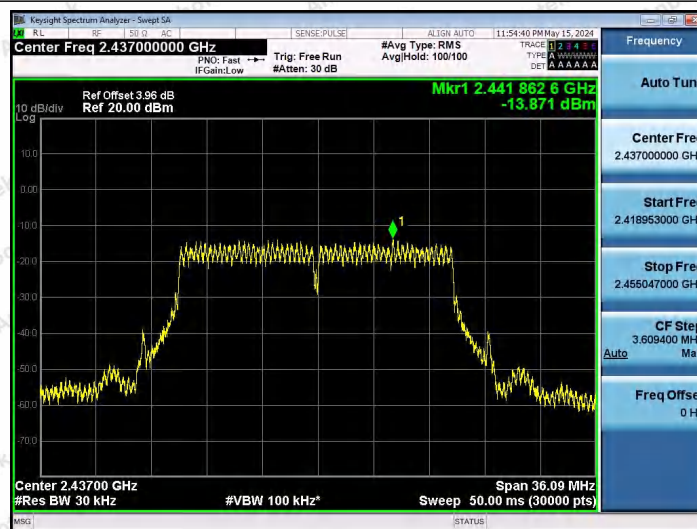


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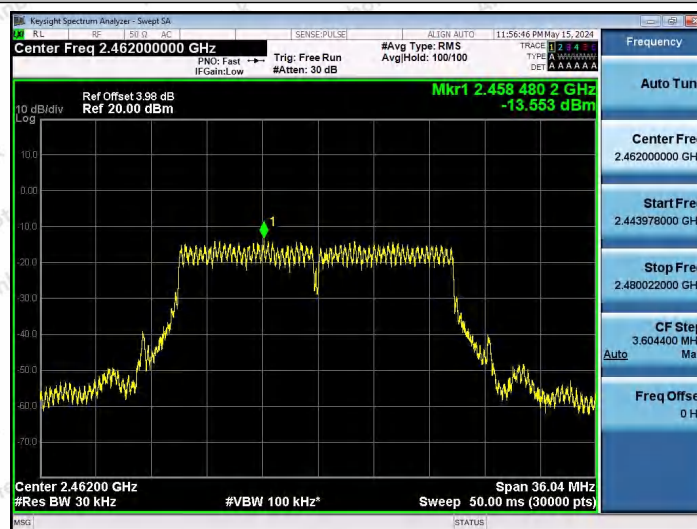




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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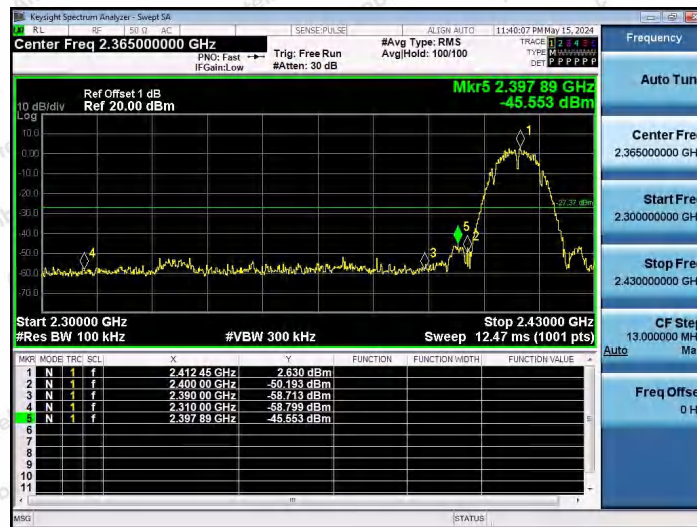
Appendix E: Conducted Band edge

Test Result

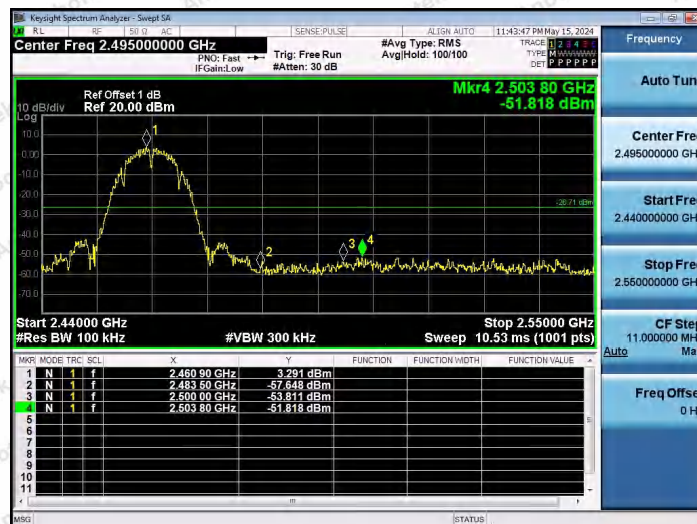
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.63	-45.55	≤-27.37	PASS
11B	Ant1	High	2462	3.29	-51.82	≤-26.71	PASS
11G	Ant1	Low	2412	-2.15	-35.45	≤-32.15	PASS
11G	Ant1	High	2462	-1.10	-46.07	≤-31.10	PASS
11N20SISO	Ant1	Low	2412	-1.85	-36.25	≤-31.85	PASS
11N20SISO	Ant1	High	2462	-1.56	-45.74	≤-31.56	PASS



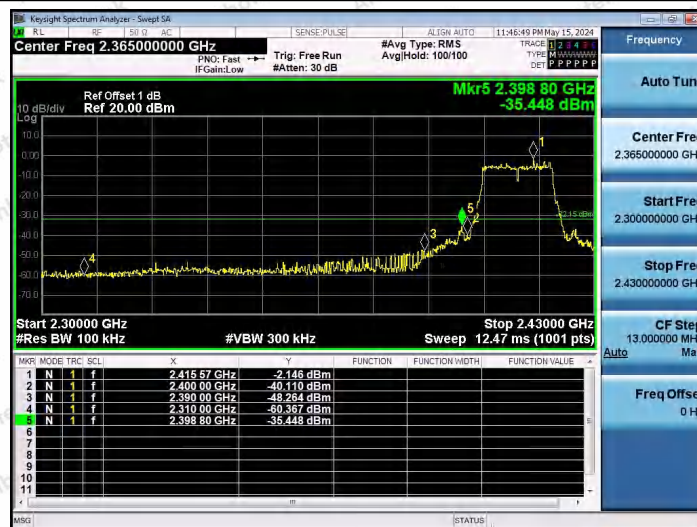
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

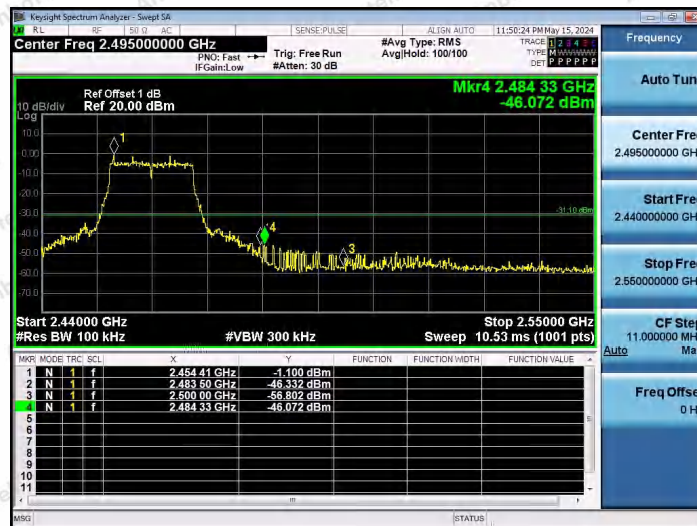
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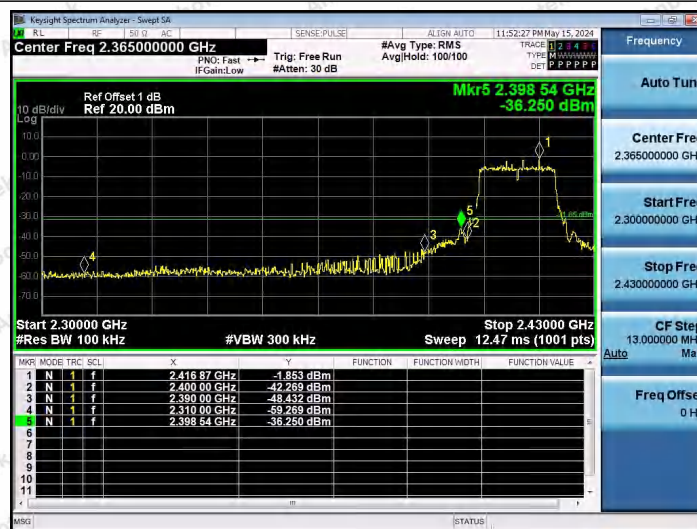


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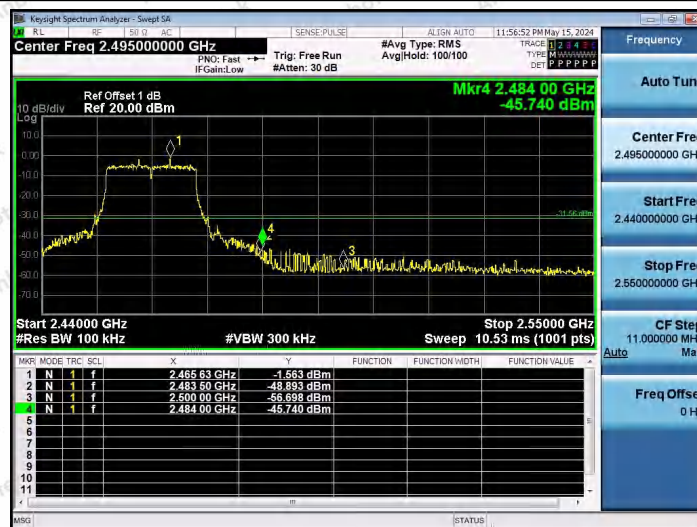




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

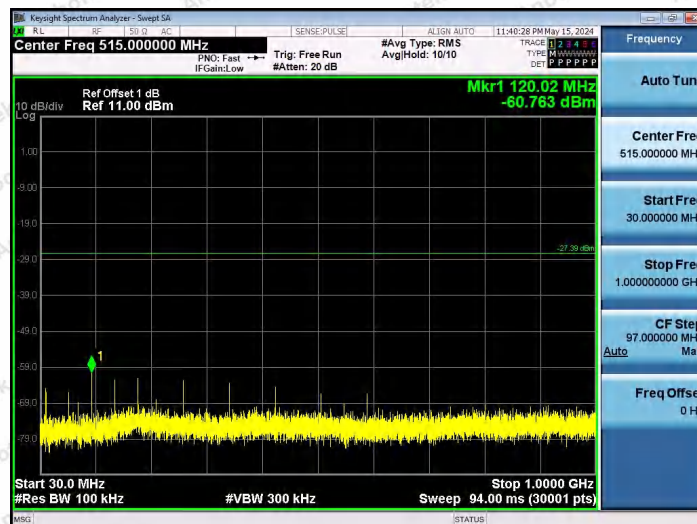
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.61	2.61	---	PASS
11B	Ant1	2412	30~1000	2.61	-60.76	≤-27.39	PASS
11B	Ant1	2412	1000~26500	2.61	-53.07	≤-27.39	PASS
11B	Ant1	2437	0~Reference	3.58	3.58	---	PASS
11B	Ant1	2437	30~1000	3.58	-62.77	≤-26.42	PASS
11B	Ant1	2437	1000~26500	3.58	-53.15	≤-26.42	PASS
11B	Ant1	2462	0~Reference	3.66	3.66	---	PASS
11B	Ant1	2462	30~1000	3.66	-61.88	≤-26.34	PASS
11B	Ant1	2462	1000~26500	3.66	-52.07	≤-26.34	PASS
11G	Ant1	2412	0~Reference	-2.07	-2.07	---	PASS
11G	Ant1	2412	30~1000	-2.07	-61.15	≤-32.07	PASS
11G	Ant1	2412	1000~26500	-2.07	-44.91	≤-32.07	PASS
11G	Ant1	2437	0~Reference	-0.72	-0.72	---	PASS
11G	Ant1	2437	30~1000	-0.72	-61.48	≤-30.72	PASS
11G	Ant1	2437	1000~26500	-0.72	-53.78	≤-30.72	PASS
11G	Ant1	2462	0~Reference	-1.01	-1.01	---	PASS
11G	Ant1	2462	30~1000	-1.01	-61.52	≤-31.01	PASS
11G	Ant1	2462	1000~26500	-1.01	-53.21	≤-31.01	PASS
11N20SISO	Ant1	2412	0~Reference	-1.82	-1.82	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.82	-61.37	≤-31.82	PASS
11N20SISO	Ant1	2412	1000~26500	-1.82	-53.61	≤-31.82	PASS
11N20SISO	Ant1	2437	0~Reference	-1.15	-1.15	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.15	-62.14	≤-31.15	PASS
11N20SISO	Ant1	2437	1000~26500	-1.15	-53.73	≤-31.15	PASS
11N20SISO	Ant1	2462	0~Reference	-1.42	-1.42	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.42	-61.85	≤-31.42	PASS
11N20SISO	Ant1	2462	1000~26500	-1.42	-53.71	≤-31.42	PASS



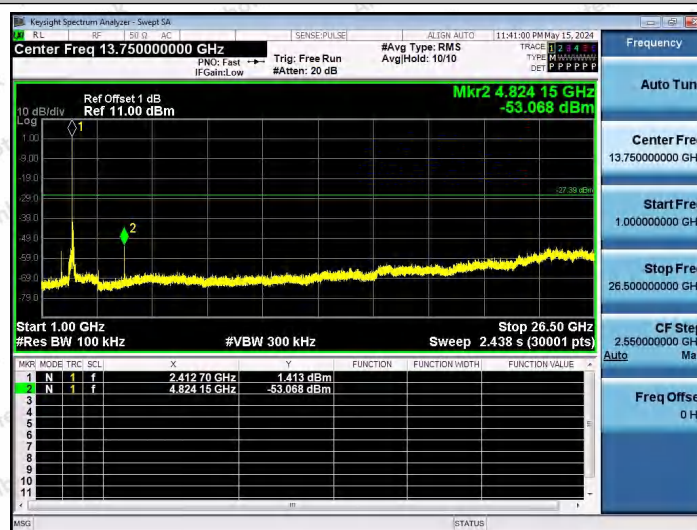
Test Graphs



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



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



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

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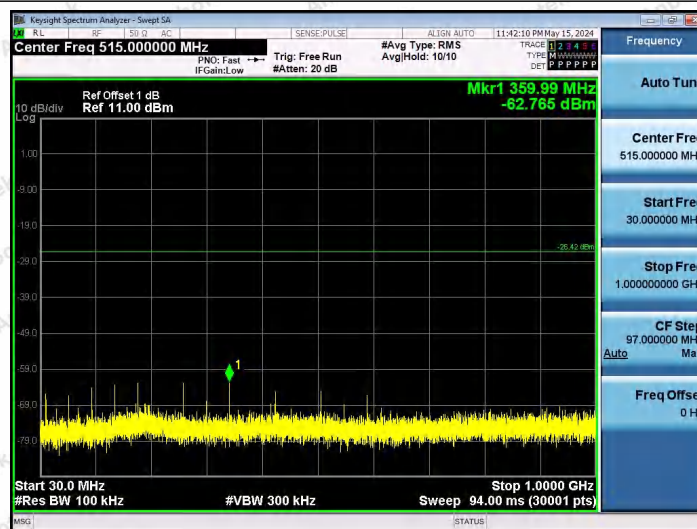


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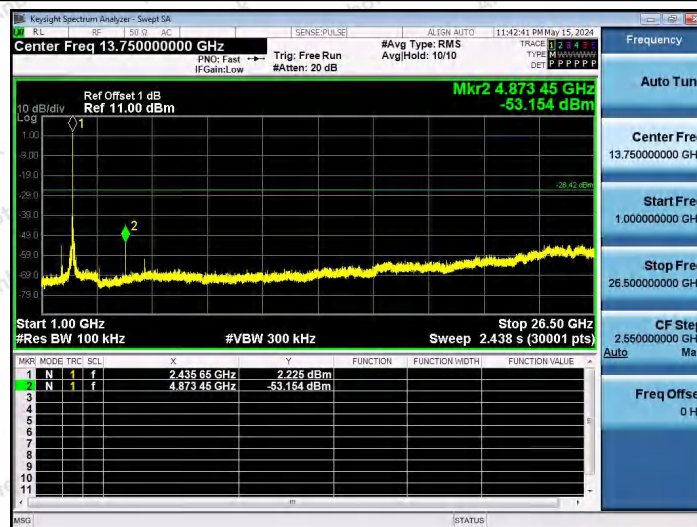




11B-Ant1-2437-0~Reference-PASS



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



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

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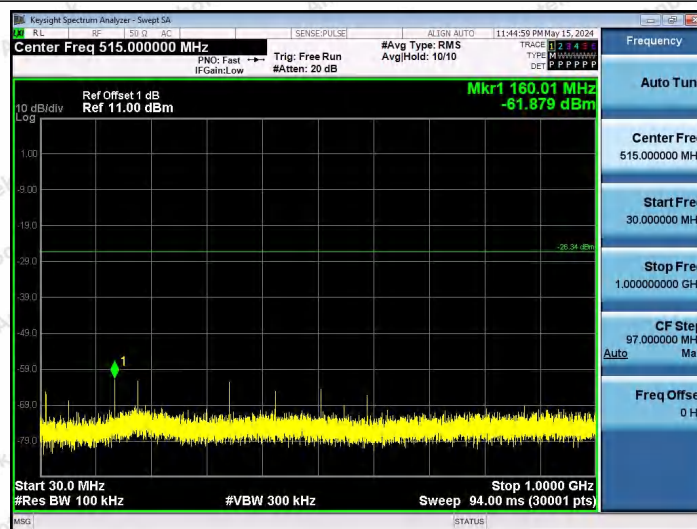


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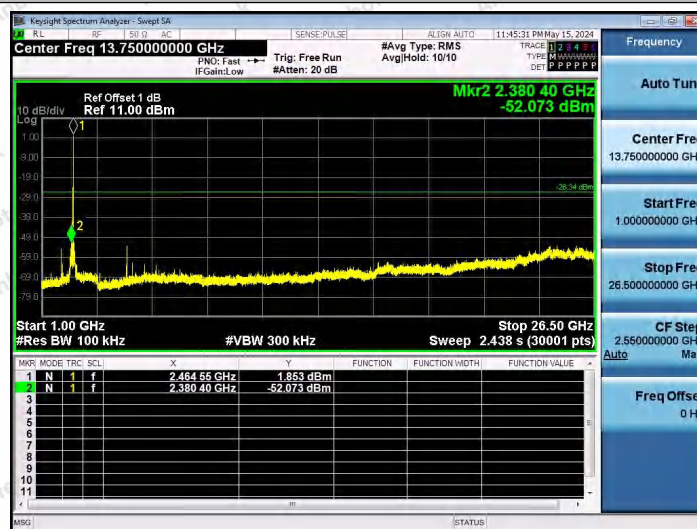




11B-Ant1-2462-0~Reference-PASS



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



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

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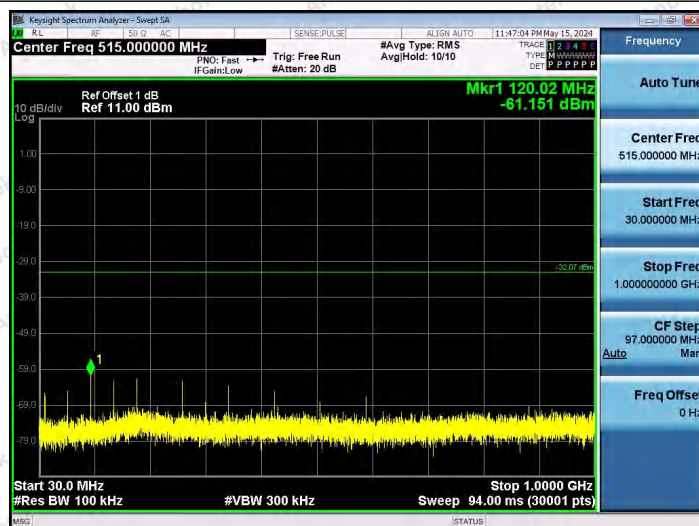


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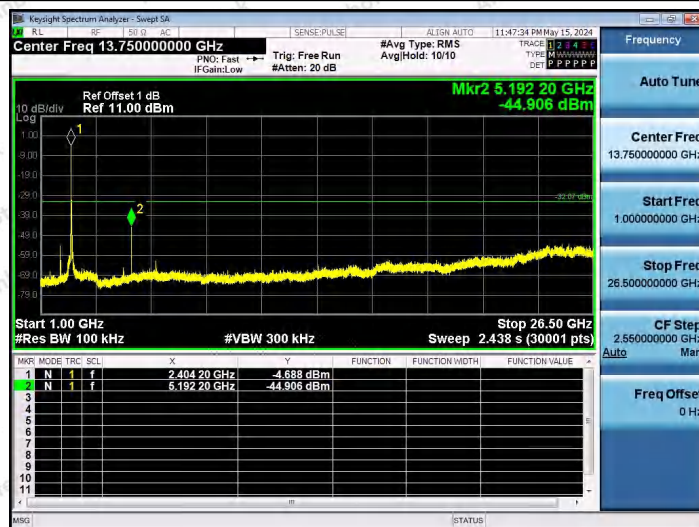




11G-Ant1-2412-0~Reference-PASS



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



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

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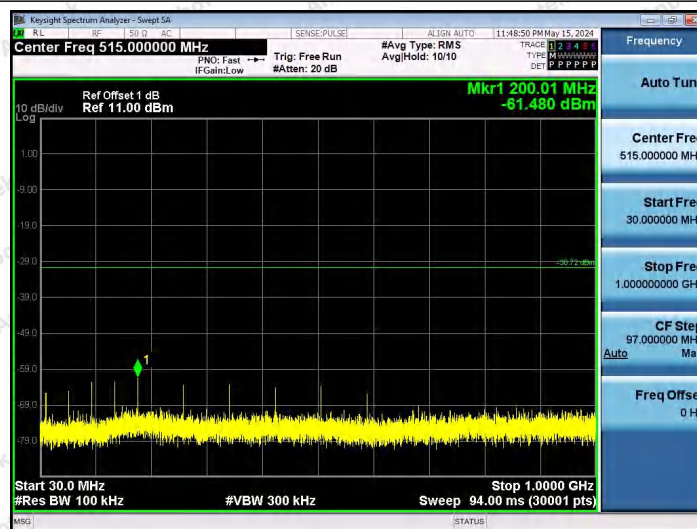


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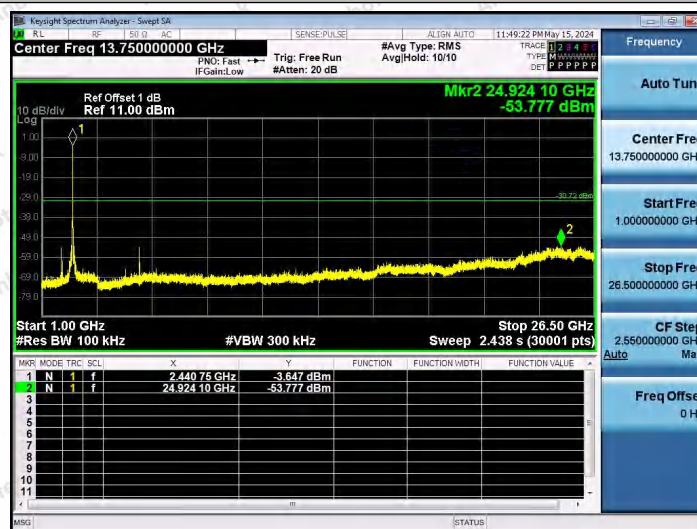




11G-Ant1-2437-0~Reference-PASS



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



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

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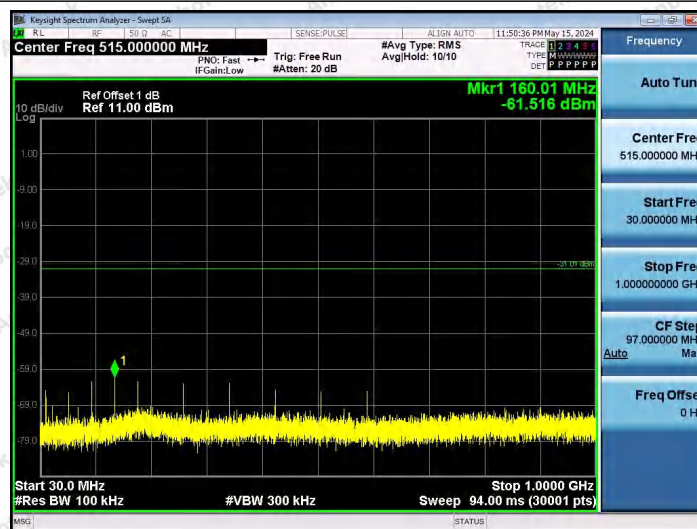


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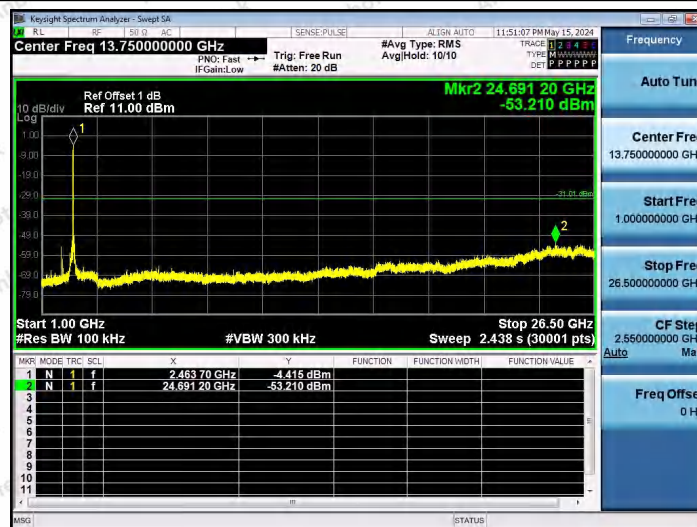




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11G-Ant1-2462-1000~26500-PASS

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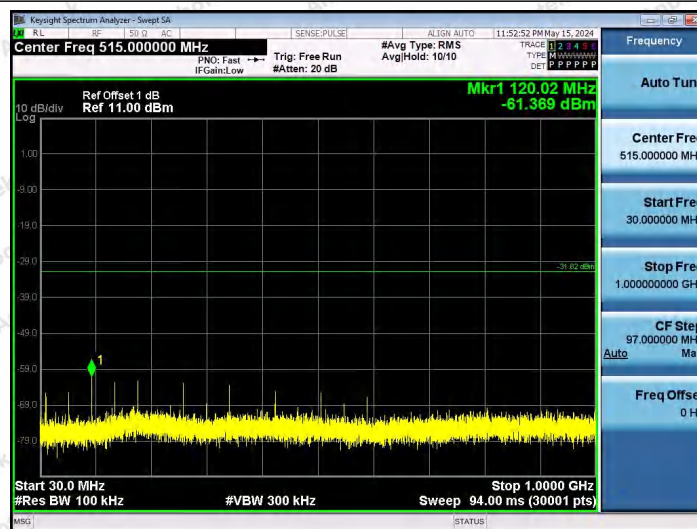


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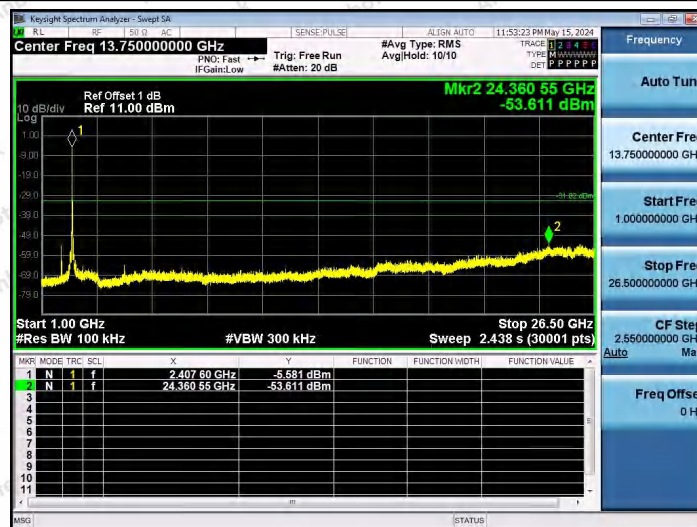




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11N20SISO-Ant1-2412-30~1000-PASS



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

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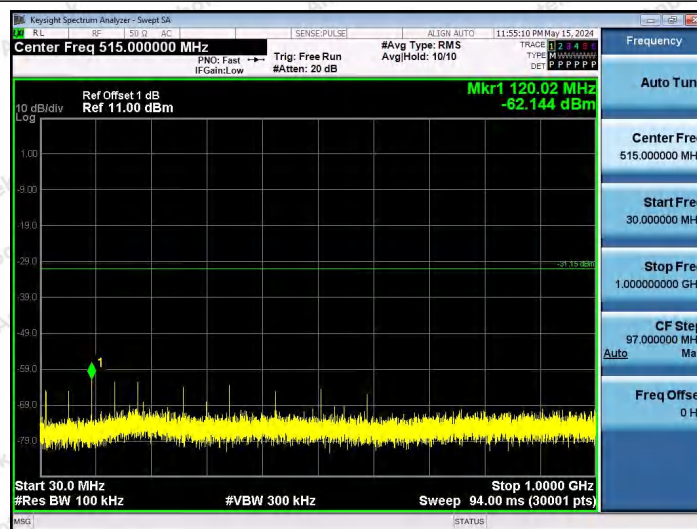


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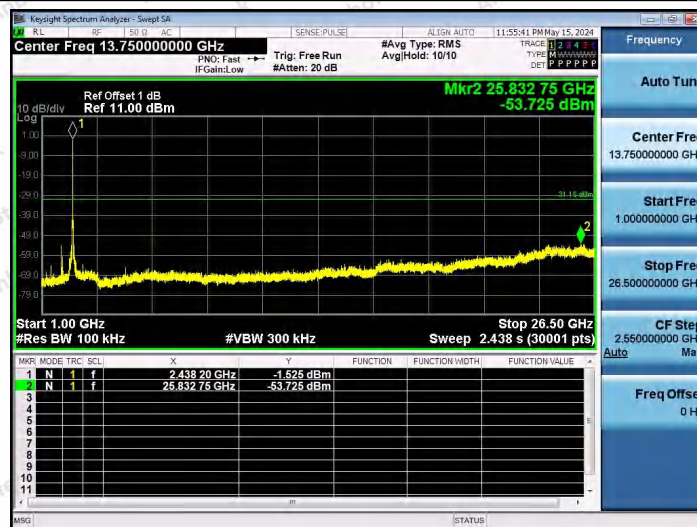




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11N20SISO-Ant1-2437-30~1000-PASS



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

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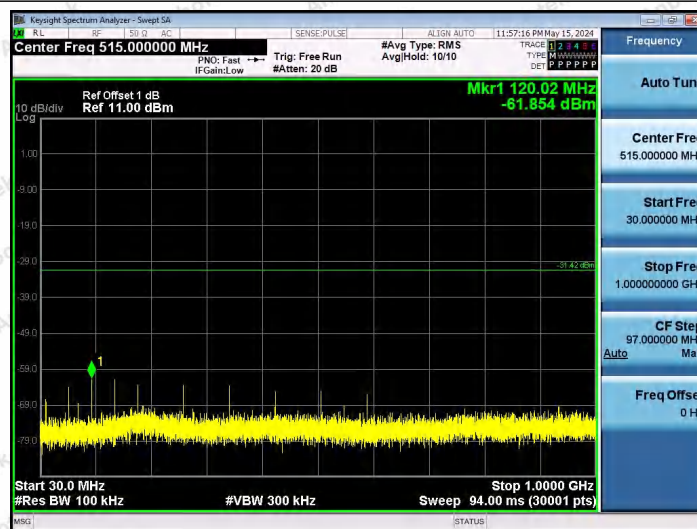


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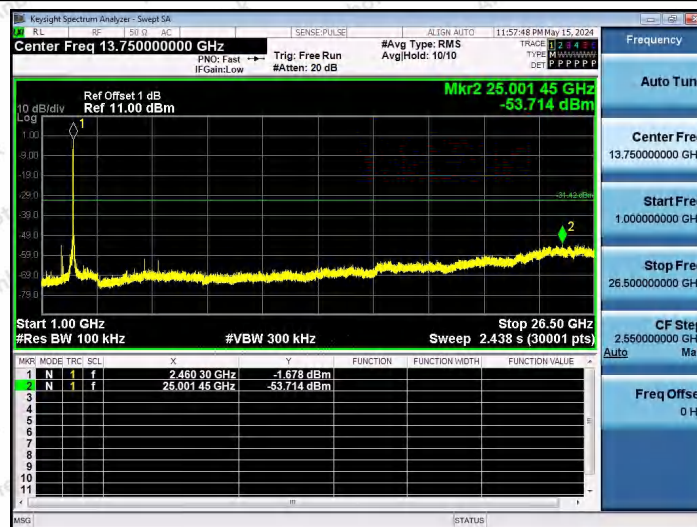




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11N20SISO-Ant1-2462-30~1000-PASS



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

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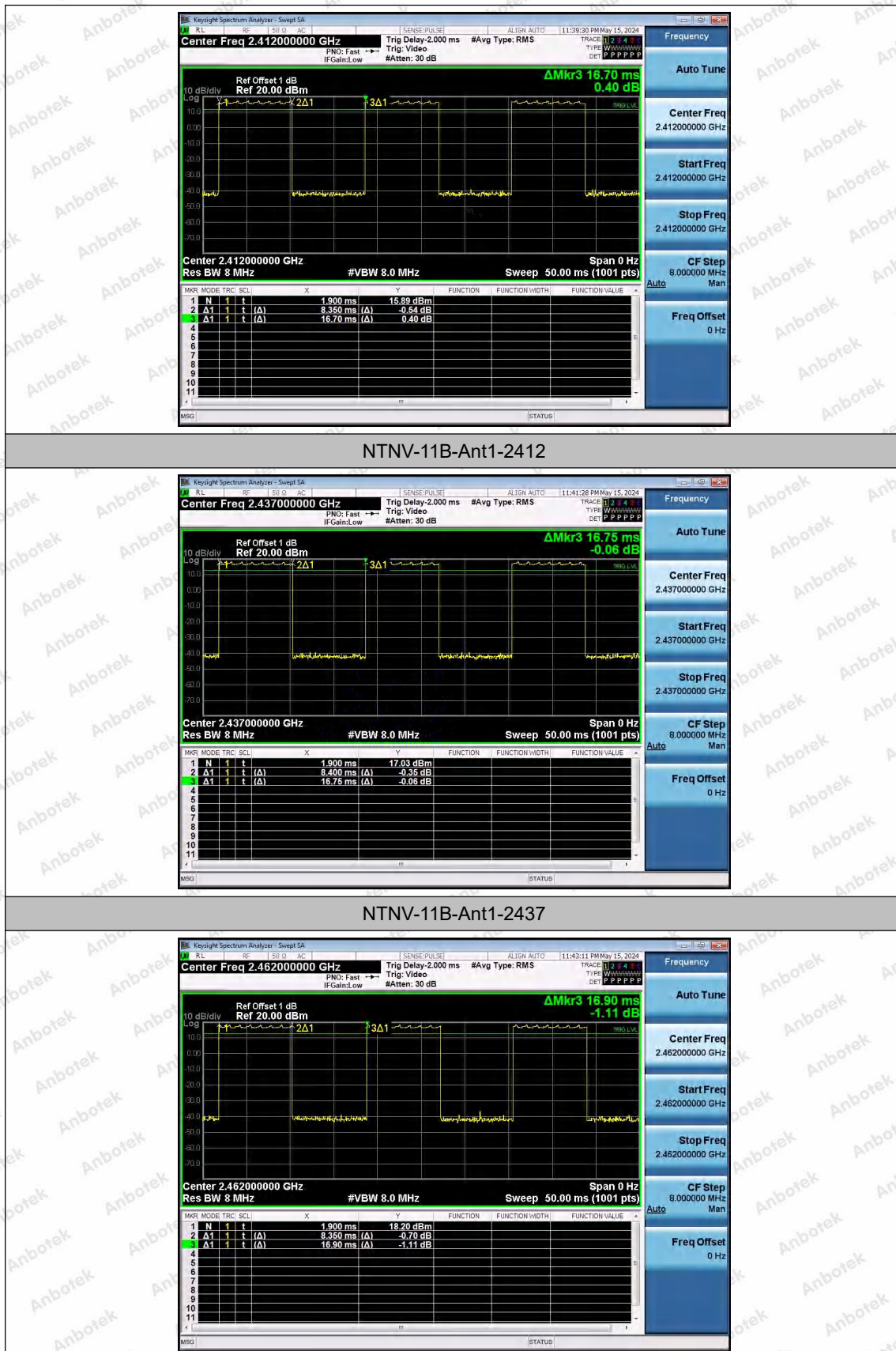
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.35	16.70	50.00	3.01
11B	Ant1	2437	8.40	16.75	50.15	3.00
11B	Ant1	2462	8.35	16.90	49.41	3.06
11G	Ant1	2412	2.02	4.41	45.80	3.39
11G	Ant1	2437	2.03	4.08	49.75	3.03
11G	Ant1	2462	2.02	4.07	49.63	3.04
11N20SISO	Ant1	2412	1.89	3.75	50.40	2.98
11N20SISO	Ant1	2437	1.89	3.74	50.53	2.96
11N20SISO	Ant1	2462	1.89	3.75	50.40	2.98



Test Graphs



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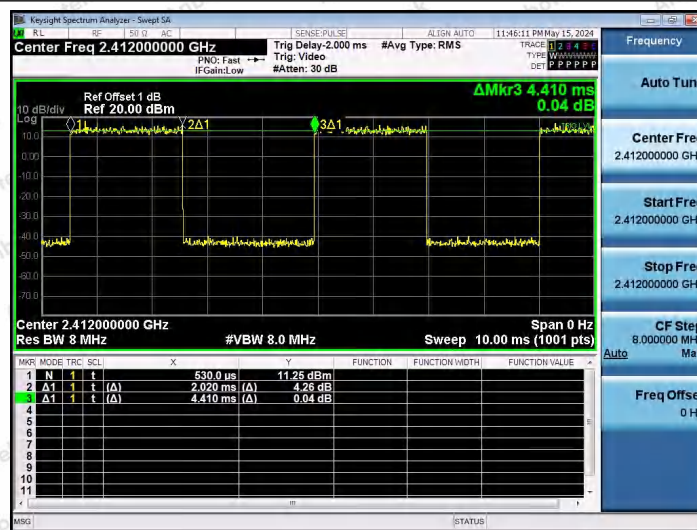
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



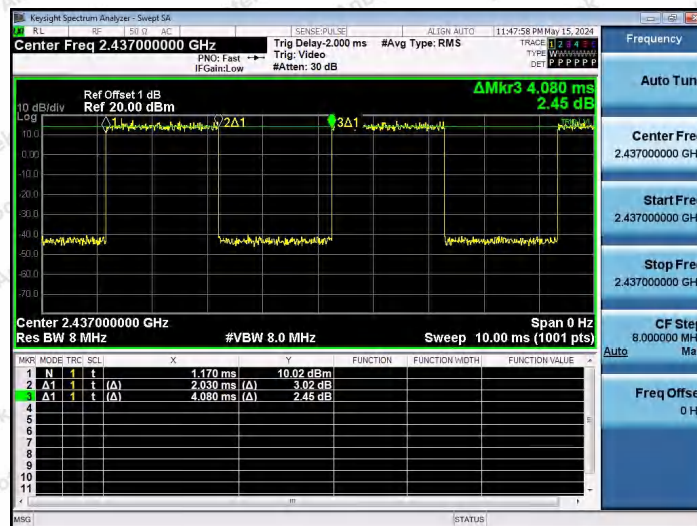
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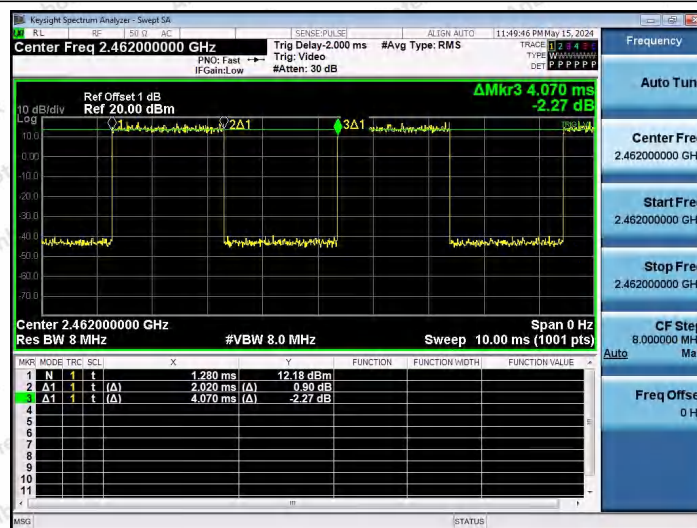
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

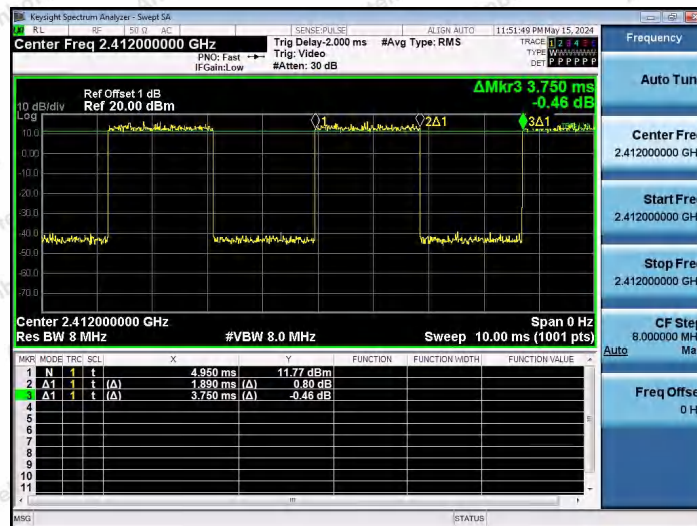
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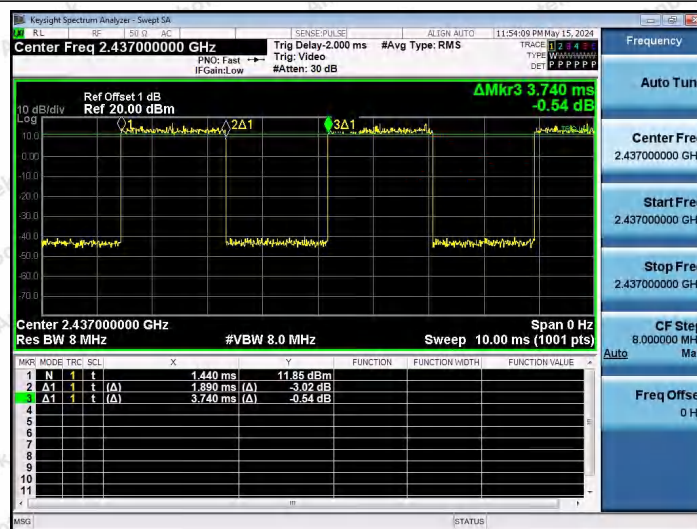


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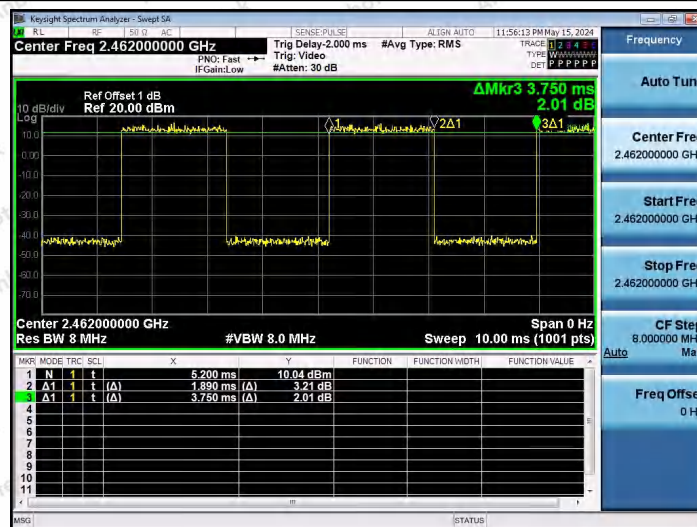




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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