

Appendix Test Data

Report No.:	18220WC40079702	Test Sample No.:	1-2-2
Start Test Date:	2024.04.27	Finish Test Date:	2024.04.29
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
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	9.560	2407.440	2417.000	0.5	PASS
11B	Ant1	2437	9.960	2432.040	2442.000	0.5	PASS
11B	Ant1	2462	9.520	2457.040	2466.560	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.200	2470.800	0.5	PASS



Test Graphs



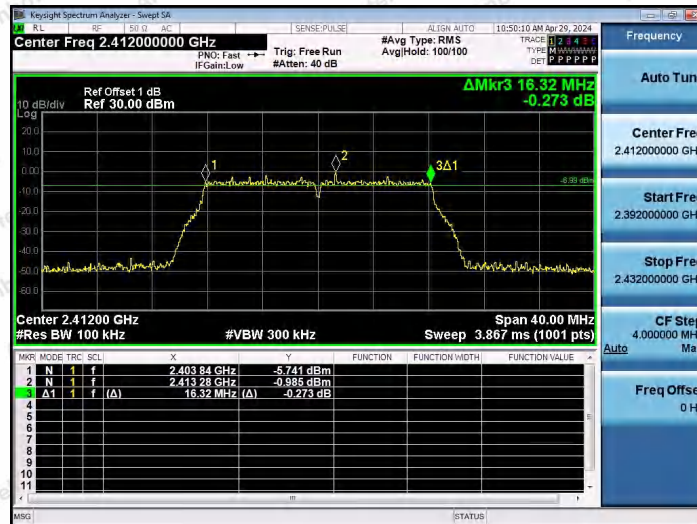
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

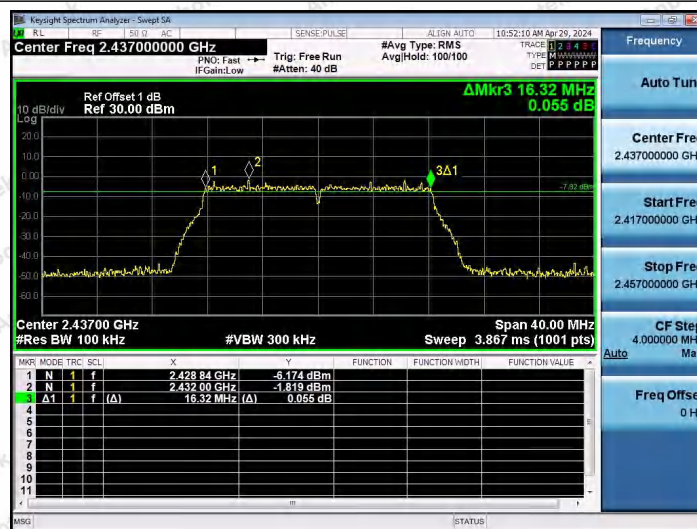


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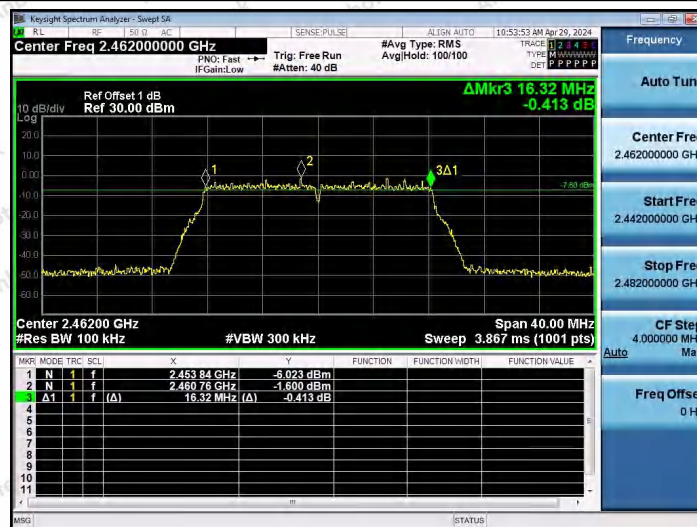




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

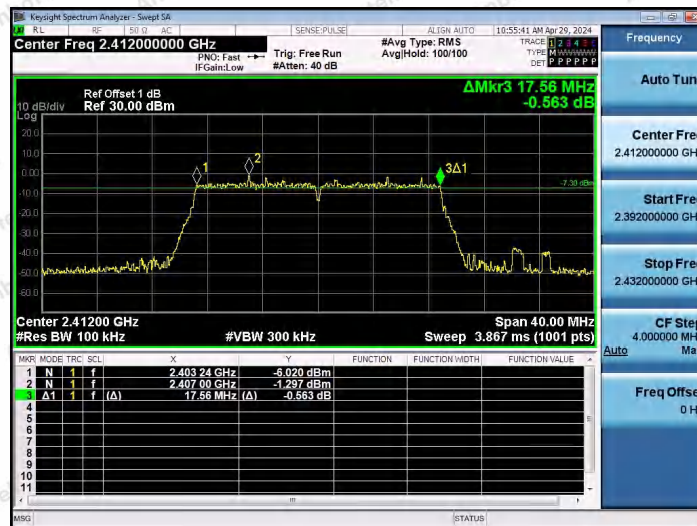
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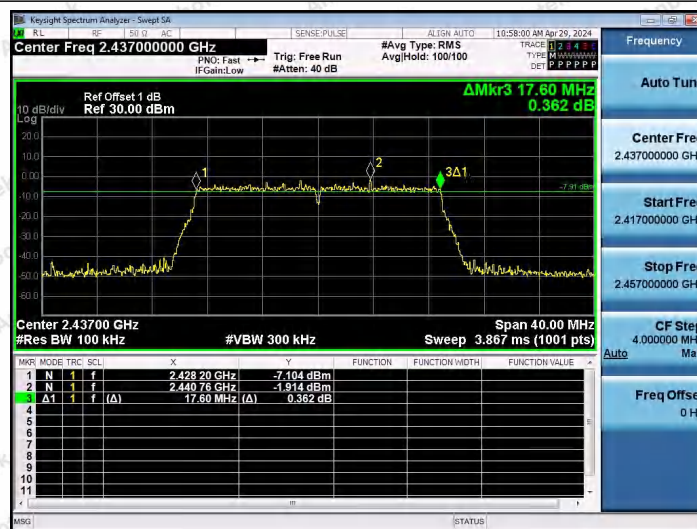


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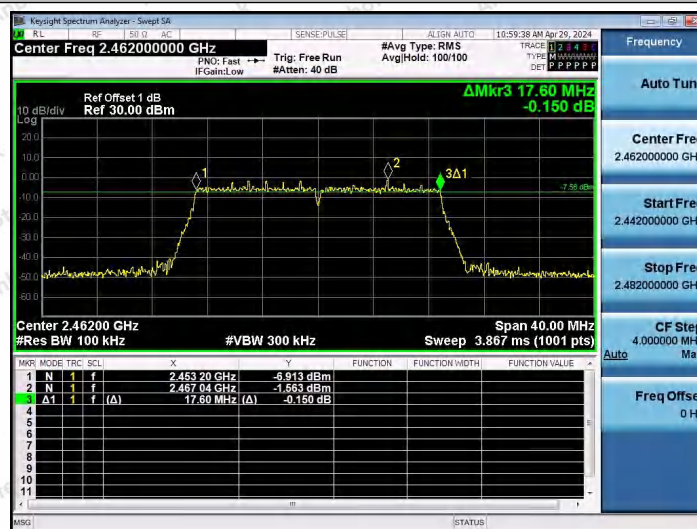




11N20SISO-Ant1-2412-PASS



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	14.278	2404.8766	2419.1546	---	---
11B	Ant1	2437	14.270	2429.8784	2444.1484	---	---
11B	Ant1	2462	14.267	2454.8701	2469.1371	---	---
11G	Ant1	2412	17.058	2403.5104	2420.5684	---	---
11G	Ant1	2437	17.058	2428.4746	2445.5326	---	---
11G	Ant1	2462	17.091	2453.4630	2470.5540	---	---
11N20SISO	Ant1	2412	17.974	2403.0397	2421.0137	---	---
11N20SISO	Ant1	2437	17.987	2428.0329	2446.0199	---	---
11N20SISO	Ant1	2462	17.975	2453.0465	2471.0215	---	---



Test Graphs



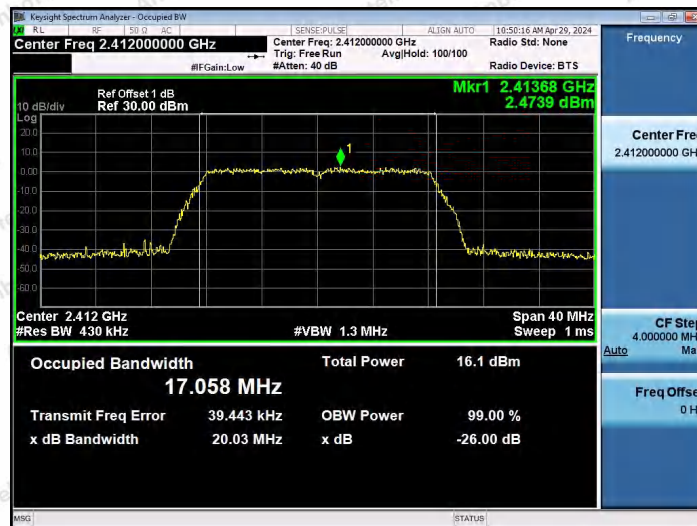
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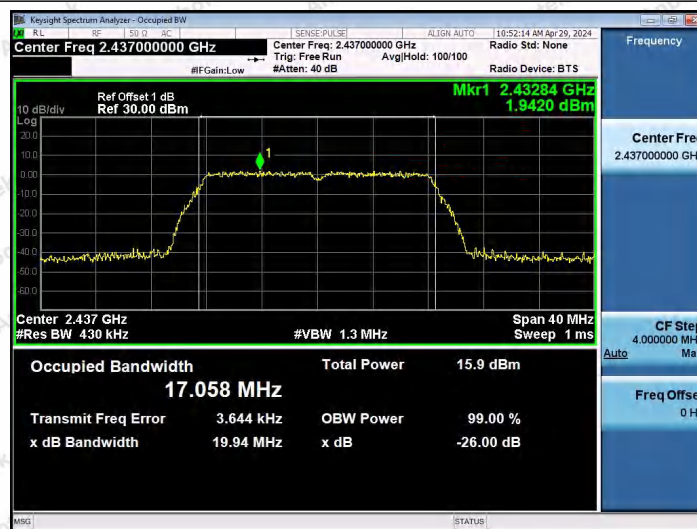


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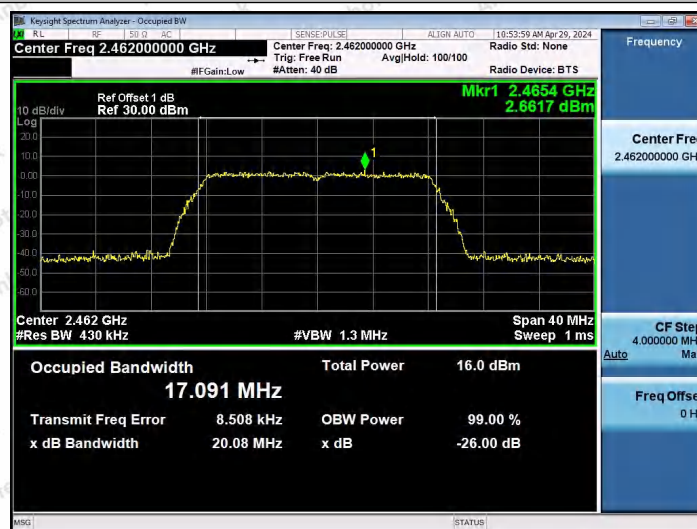




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

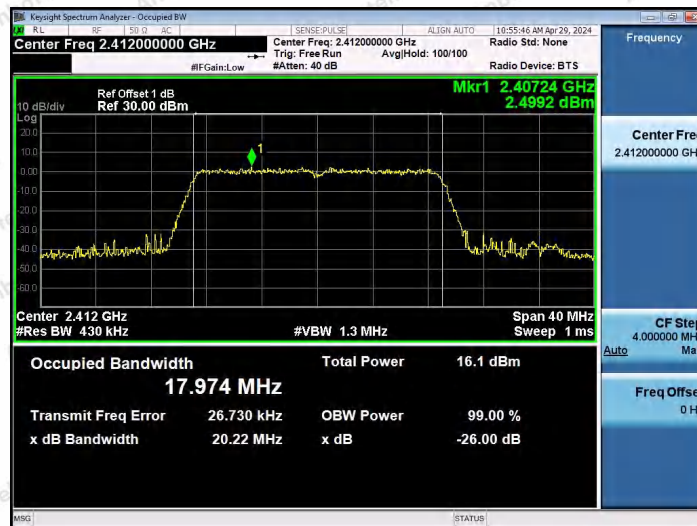
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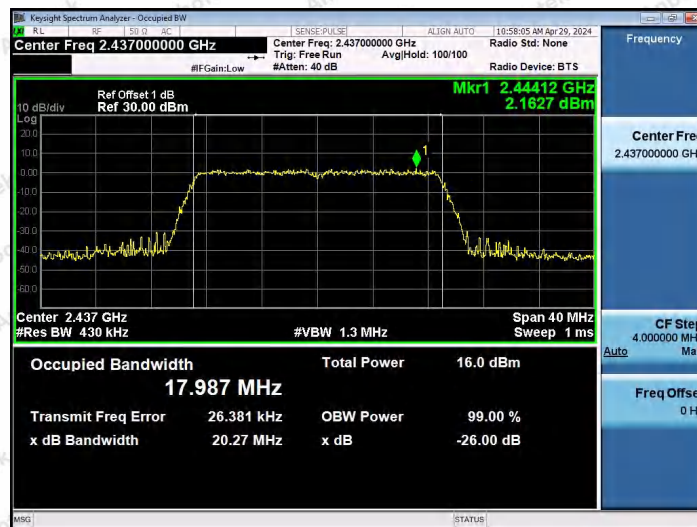


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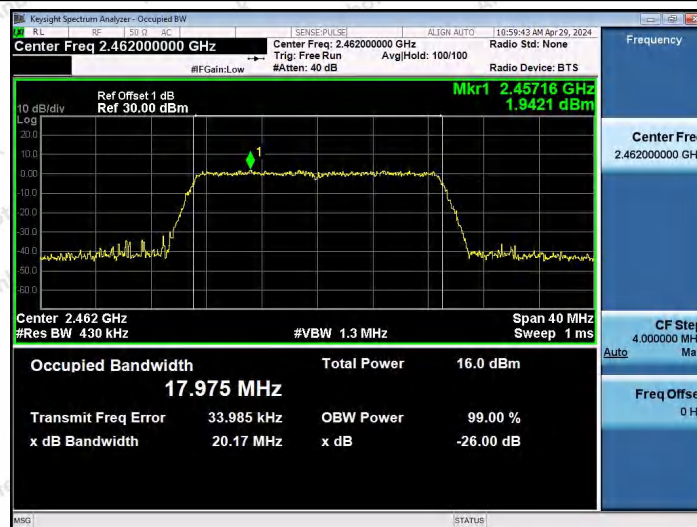




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

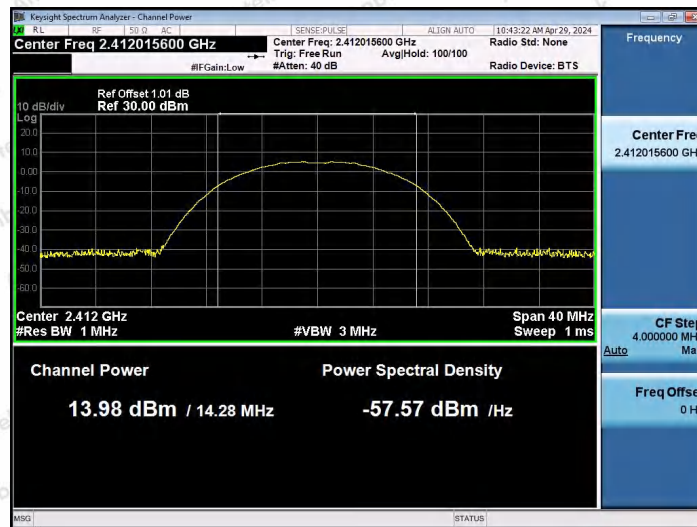
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.97	99.76	0.01	13.98	≤30.00	PASS
11B	Ant1	2437	14.02	99.52	0.02	14.04	≤30.00	PASS
11B	Ant1	2462	13.95	99.64	0.02	13.97	≤30.00	PASS
11G	Ant1	2412	14.40	97.20	0.12	14.52	≤30.00	PASS
11G	Ant1	2437	14.32	97.20	0.12	14.44	≤30.00	PASS
11G	Ant1	2462	14.36	97.89	0.09	14.45	≤30.00	PASS
11N20SISO	Ant1	2412	14.48	97.74	0.10	14.58	≤30.00	PASS
11N20SISO	Ant1	2437	14.25	97.74	0.10	14.35	≤30.00	PASS
11N20SISO	Ant1	2462	14.37	97.01	0.13	14.50	≤30.00	PASS

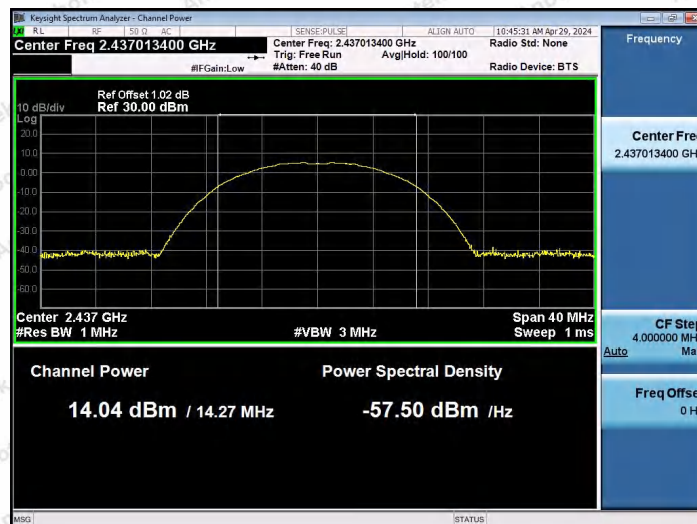
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



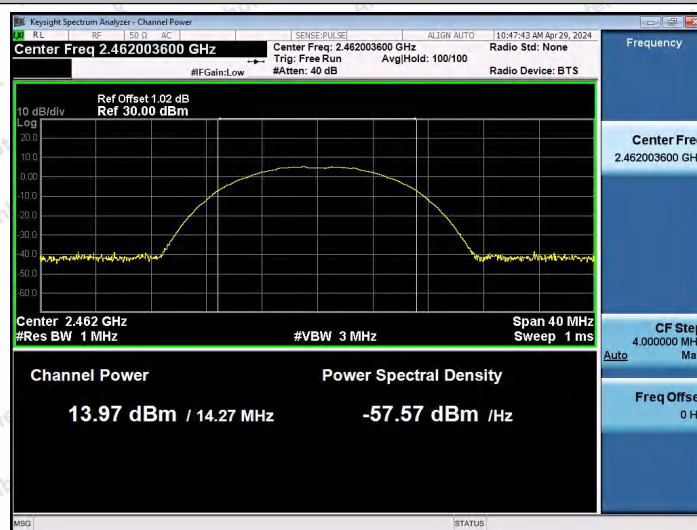
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

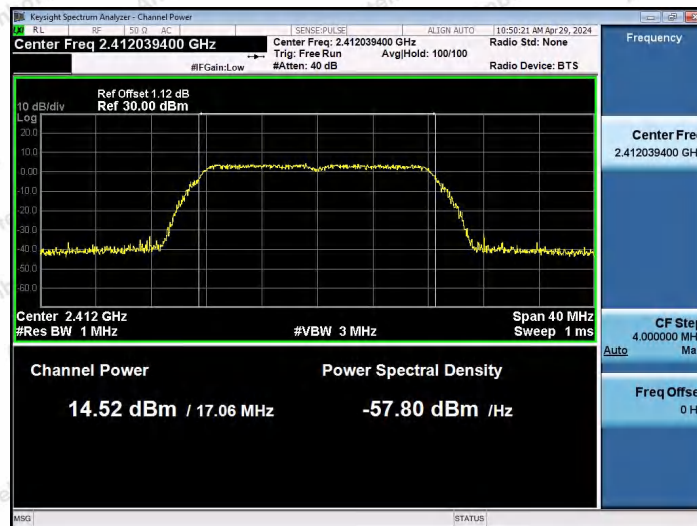
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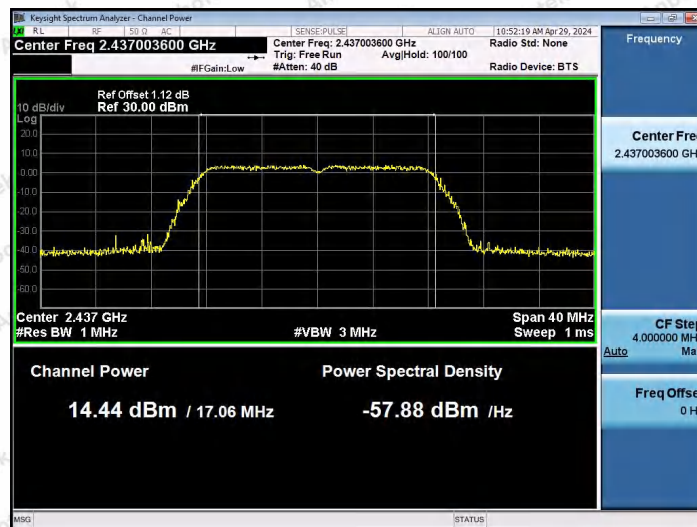


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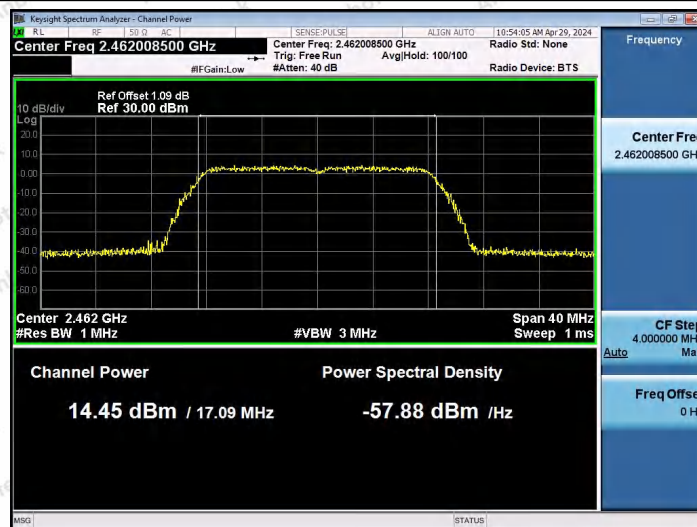




11G-Ant1-2412-PASS

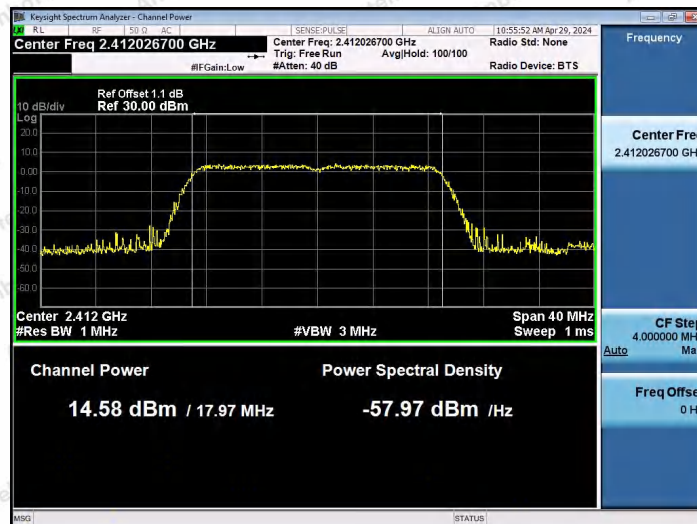


11G-Ant1-2437-PASS

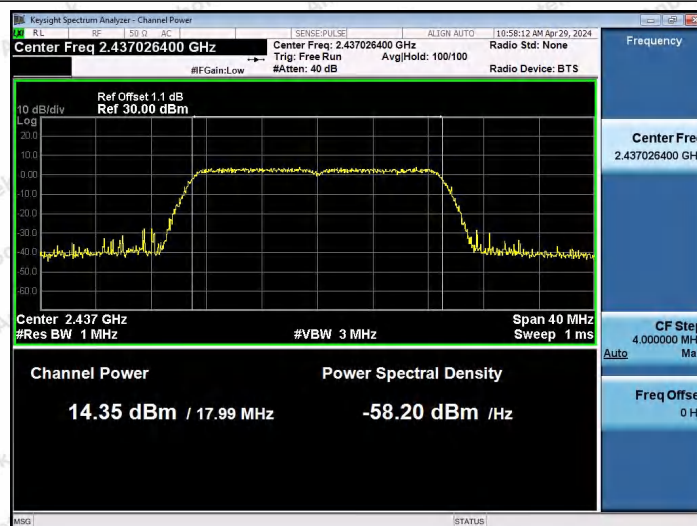


11G-Ant1-2462-PASS

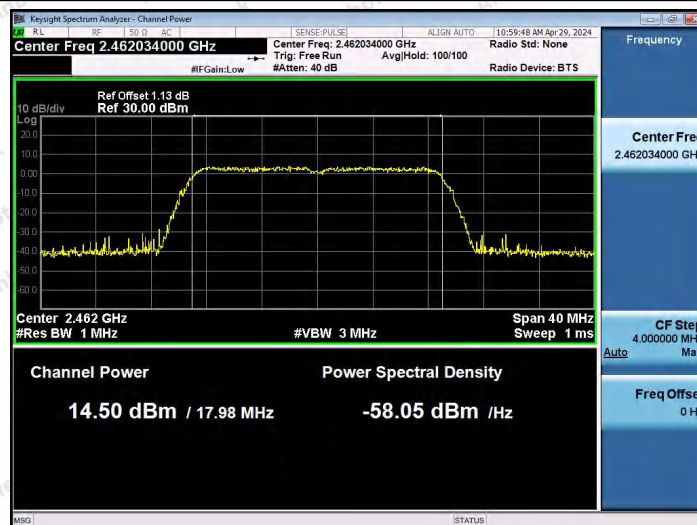




11N20SISO-Ant1-2412-PASS



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	-9.43	-19.43	≤8.00	PASS
11B	Ant1	2437	-9.74	-19.74	≤8.00	PASS
11B	Ant1	2462	-9.59	-19.59	≤8.00	PASS
11G	Ant1	2412	-14.32	-24.32	≤8.00	PASS
11G	Ant1	2437	-14.54	-24.54	≤8.00	PASS
11G	Ant1	2462	-13.95	-23.95	≤8.00	PASS
11N20SIS O	Ant1	2412	-14.09	-24.09	≤8.00	PASS
11N20SIS O	Ant1	2437	-14.58	-24.58	≤8.00	PASS
11N20SIS O	Ant1	2462	-14.71	-24.71	≤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



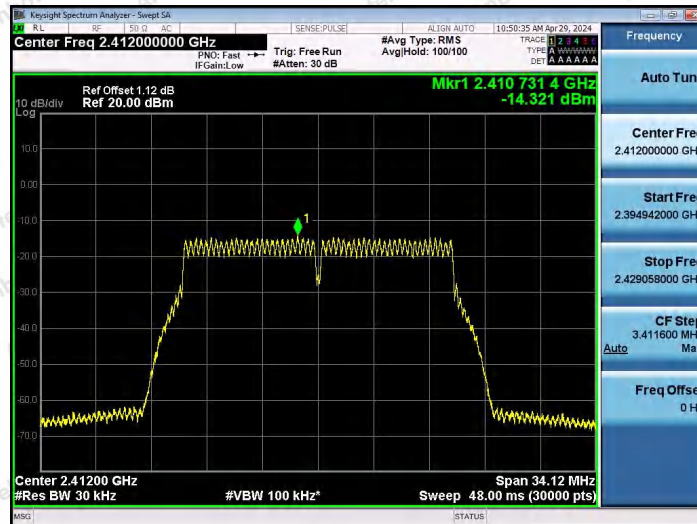
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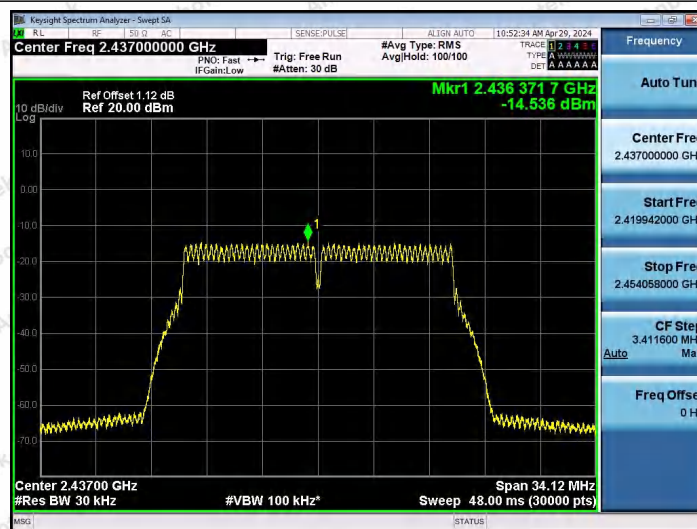


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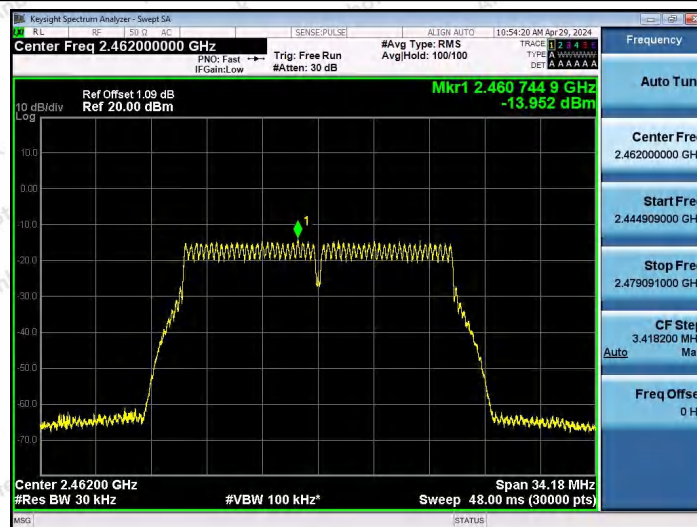




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

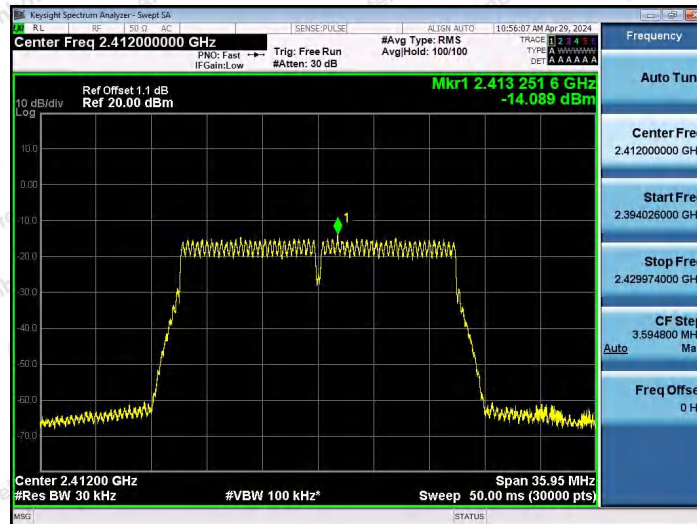
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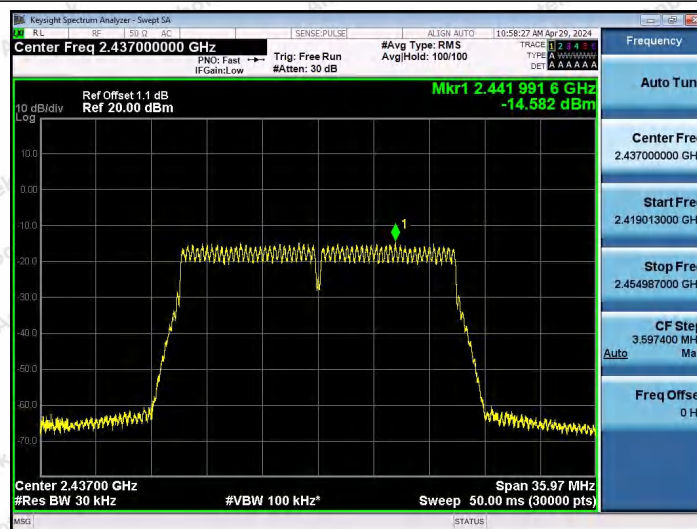


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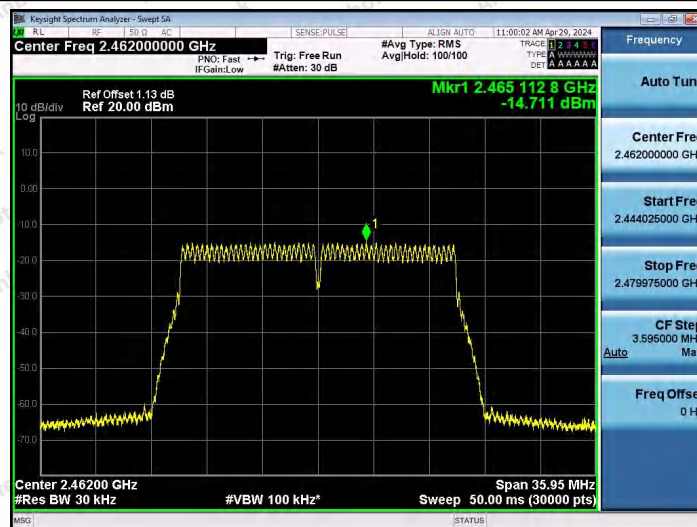




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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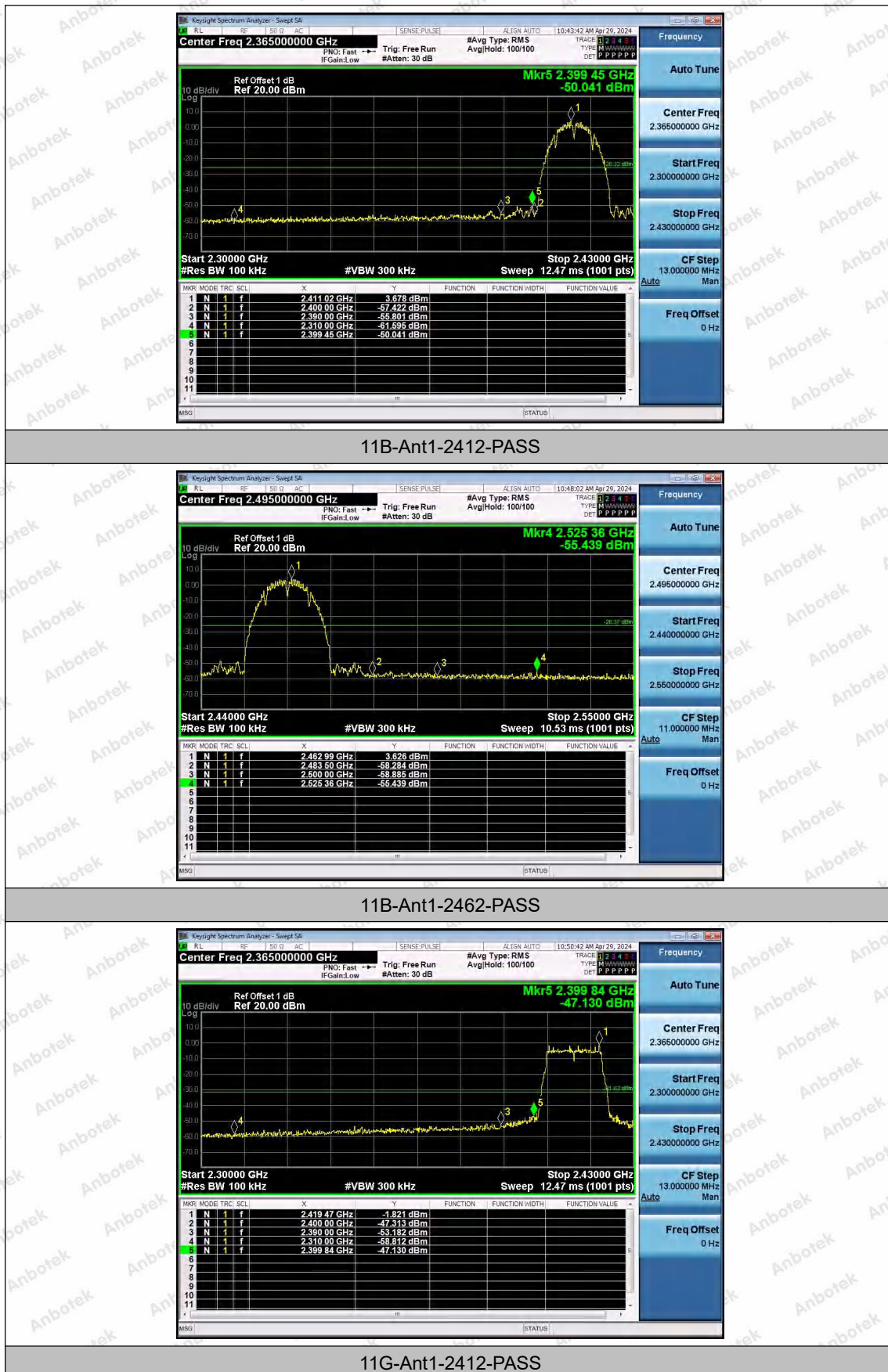
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.68	-50.04	≤-26.32	PASS
11B	Ant1	High	2462	3.63	-55.44	≤-26.37	PASS
11G	Ant1	Low	2412	-1.82	-47.13	≤-31.82	PASS
11G	Ant1	High	2462	-1.53	-51.89	≤-31.53	PASS
11N20SISO	Ant1	Low	2412	-1.91	-44.27	≤-31.91	PASS
11N20SISO	Ant1	High	2462	-1.86	-52.35	≤-31.86	PASS



Test Graphs



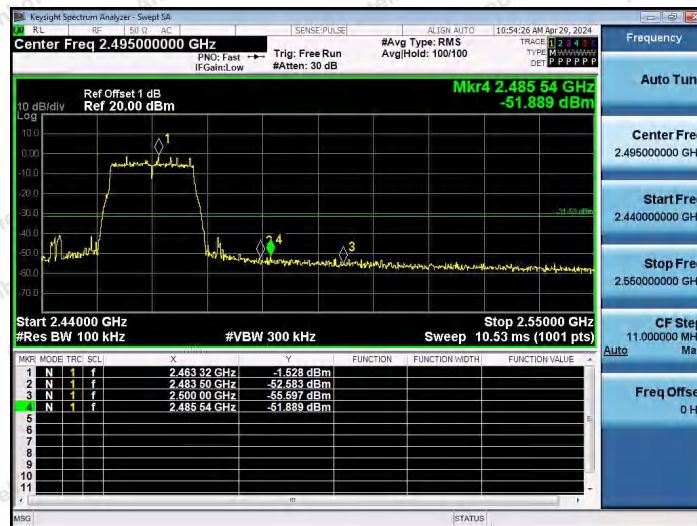
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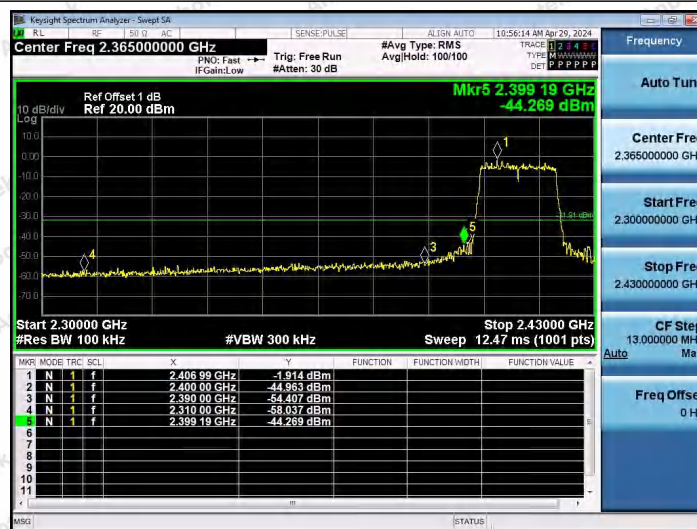


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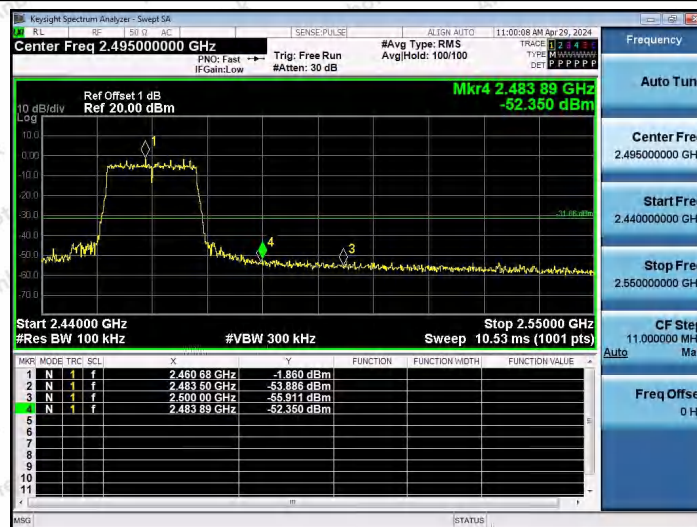




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

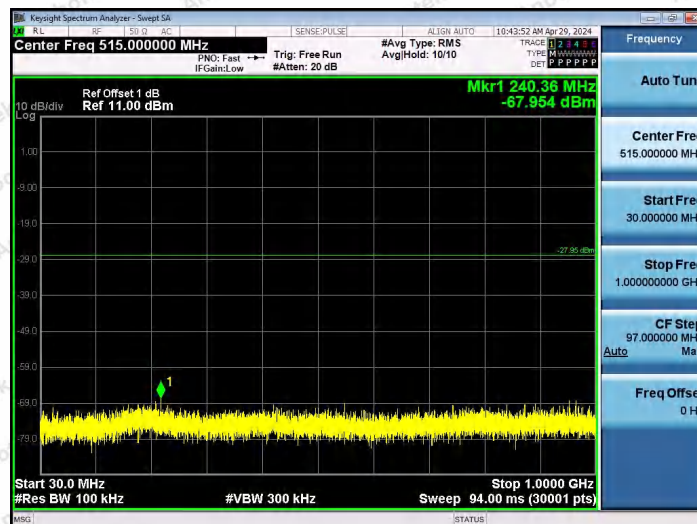
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.05	2.05	---	PASS
11B	Ant1	2412	30~1000	2.05	-67.95	≤-27.95	PASS
11B	Ant1	2412	1000~26500	2.05	-54	≤-27.95	PASS
11B	Ant1	2437	0~Reference	2.13	2.13	---	PASS
11B	Ant1	2437	30~1000	2.13	-68.76	≤-27.87	PASS
11B	Ant1	2437	1000~26500	2.13	-53.39	≤-27.87	PASS
11B	Ant1	2462	0~Reference	2.53	2.53	---	PASS
11B	Ant1	2462	30~1000	2.53	-68.93	≤-27.47	PASS
11B	Ant1	2462	1000~26500	2.53	-52.62	≤-27.47	PASS
11G	Ant1	2412	0~Reference	-2.50	-2.50	---	PASS
11G	Ant1	2412	30~1000	-2.50	-68.87	≤-32.5	PASS
11G	Ant1	2412	1000~26500	-2.50	-53.02	≤-32.5	PASS
11G	Ant1	2437	0~Reference	-1.20	-1.20	---	PASS
11G	Ant1	2437	30~1000	-1.20	-69.31	≤-31.2	PASS
11G	Ant1	2437	1000~26500	-1.20	-52.86	≤-31.2	PASS
11G	Ant1	2462	0~Reference	-2.94	-2.94	---	PASS
11G	Ant1	2462	30~1000	-2.94	-68.72	≤-32.94	PASS
11G	Ant1	2462	1000~26500	-2.94	-53.95	≤-32.94	PASS
11N20SISO	Ant1	2412	0~Reference	-1.56	-1.56	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.56	-67.02	≤-31.56	PASS
11N20SISO	Ant1	2412	1000~26500	-1.56	-53.32	≤-31.56	PASS
11N20SISO	Ant1	2437	0~Reference	-4.28	-4.28	---	PASS
11N20SISO	Ant1	2437	30~1000	-4.28	-68.67	≤-34.28	PASS
11N20SISO	Ant1	2437	1000~26500	-4.28	-53.96	≤-34.28	PASS
11N20SISO	Ant1	2462	0~Reference	-3.70	-3.70	---	PASS
11N20SISO	Ant1	2462	30~1000	-3.70	-67.44	≤-33.7	PASS
11N20SISO	Ant1	2462	1000~26500	-3.70	-53.32	≤-33.7	PASS



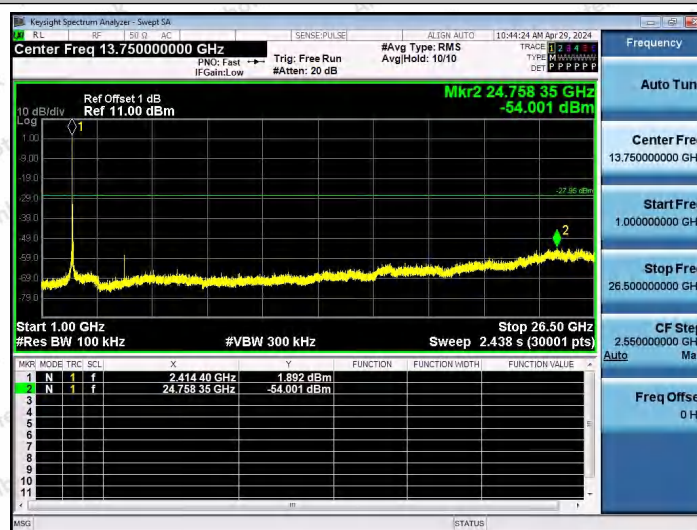
Test Graphs



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



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



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

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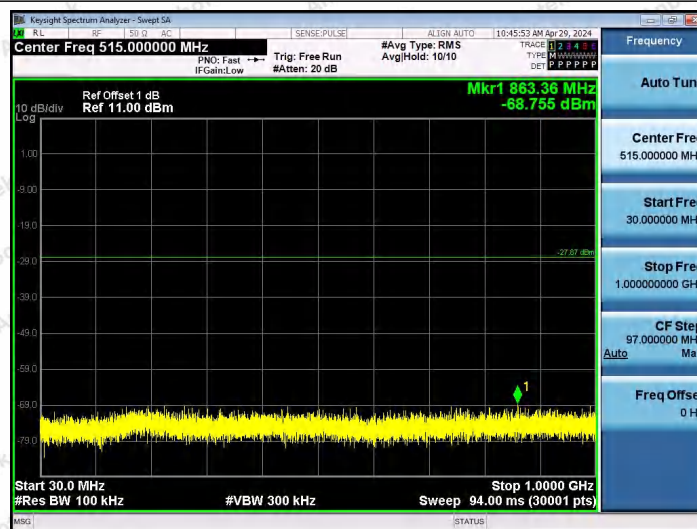


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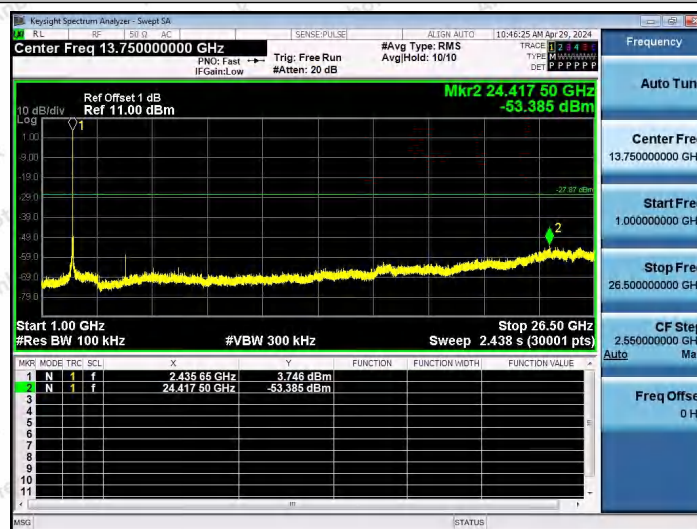




11B-Ant1-2437-0~Reference-PASS



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



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

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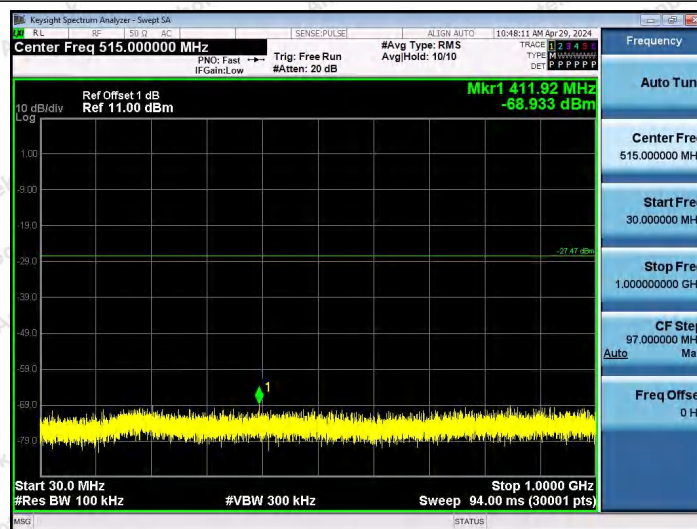


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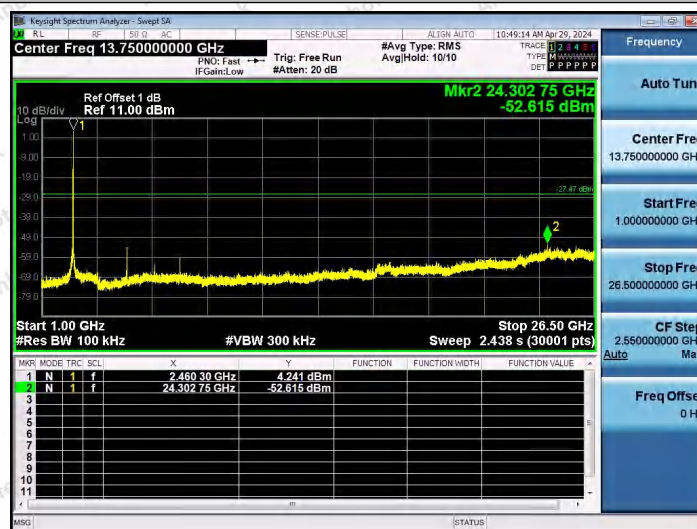




11B-Ant1-2462-0~Reference-PASS



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



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

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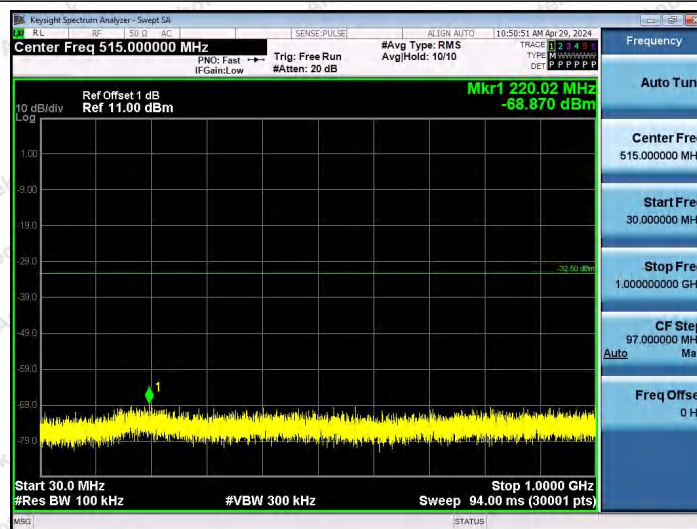


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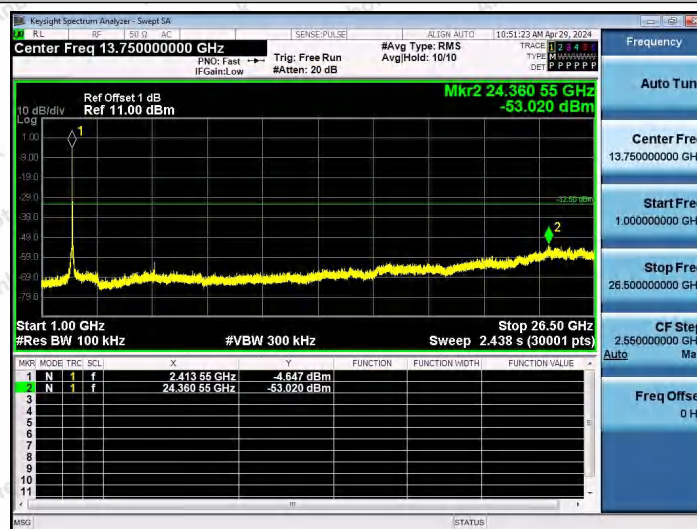




11G-Ant1-2412-0~Reference-PASS



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



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

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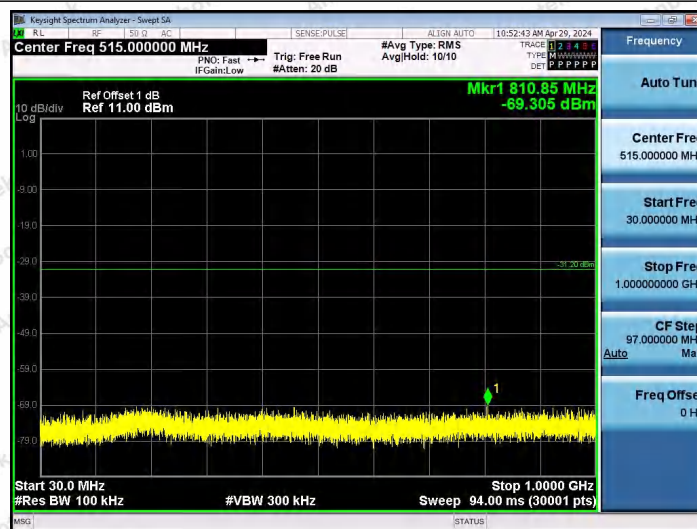


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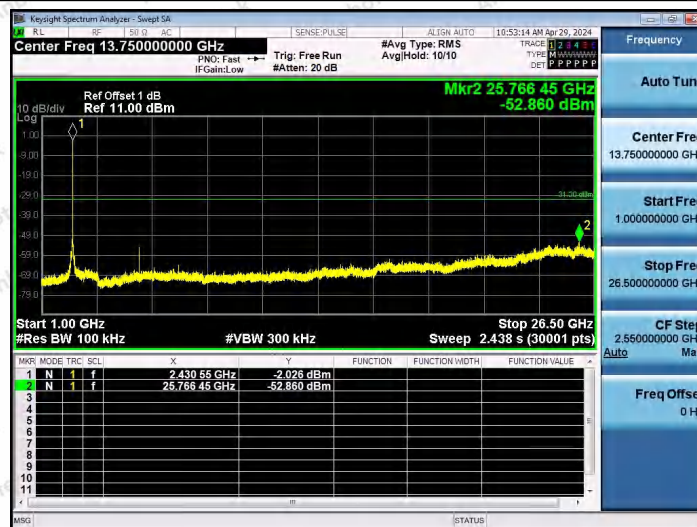




11G-Ant1-2437-0~Reference-PASS



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



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

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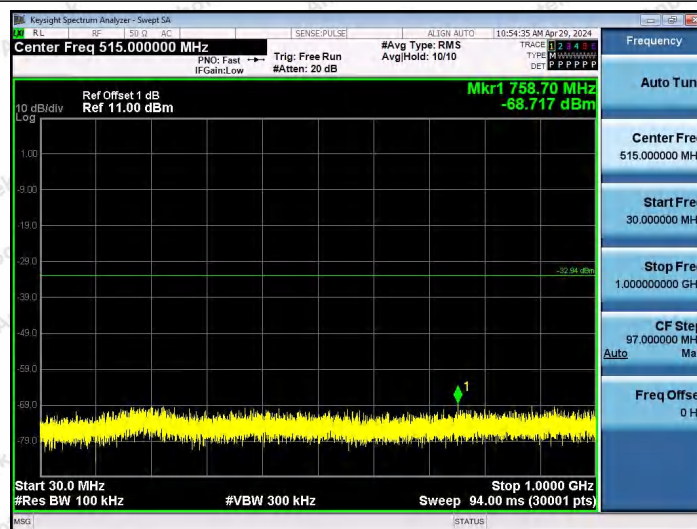


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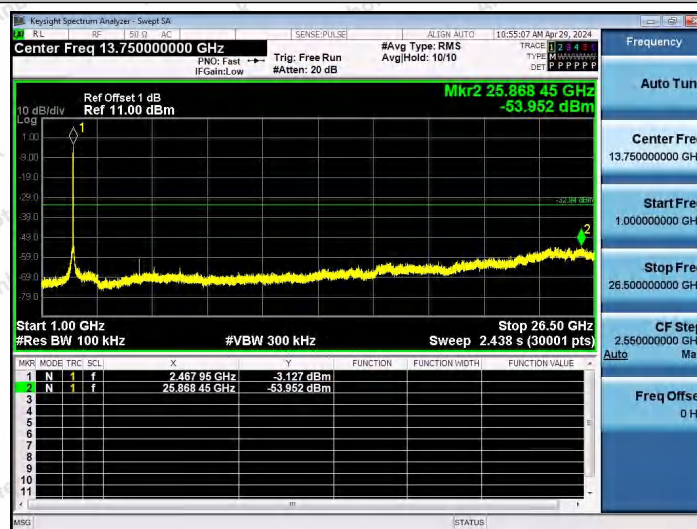




11G-Ant1-2462-0~Reference-PASS



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



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

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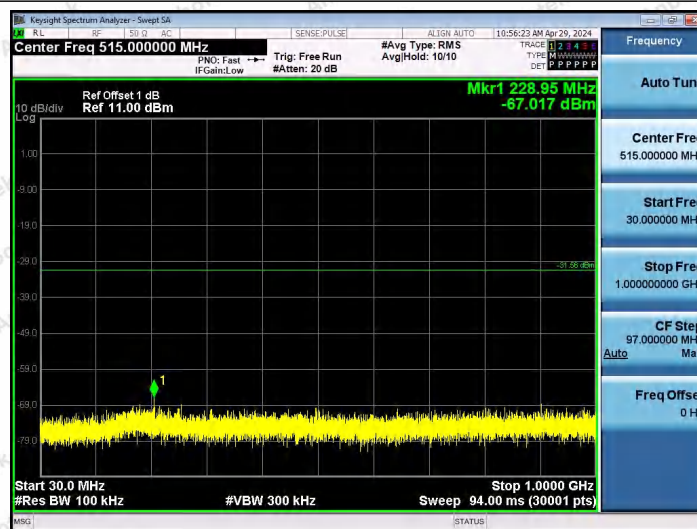


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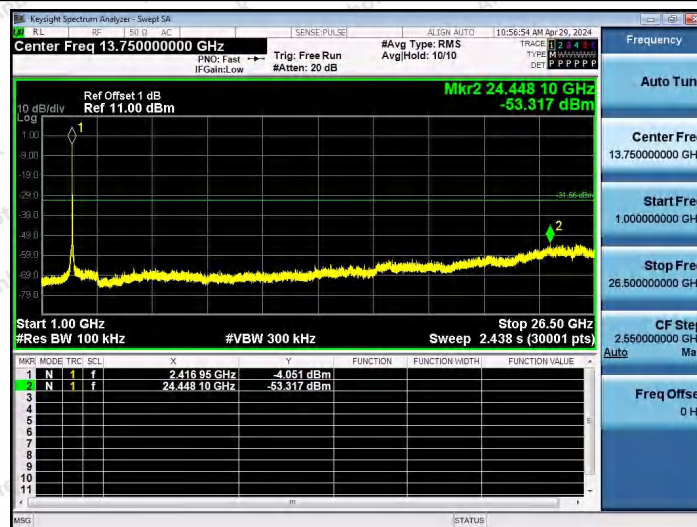




11N20SISO-Ant1-2412-0~Reference-PASS



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



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

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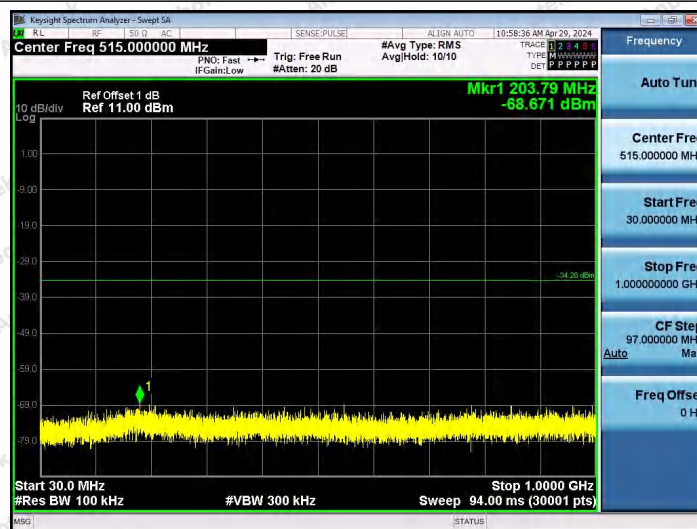


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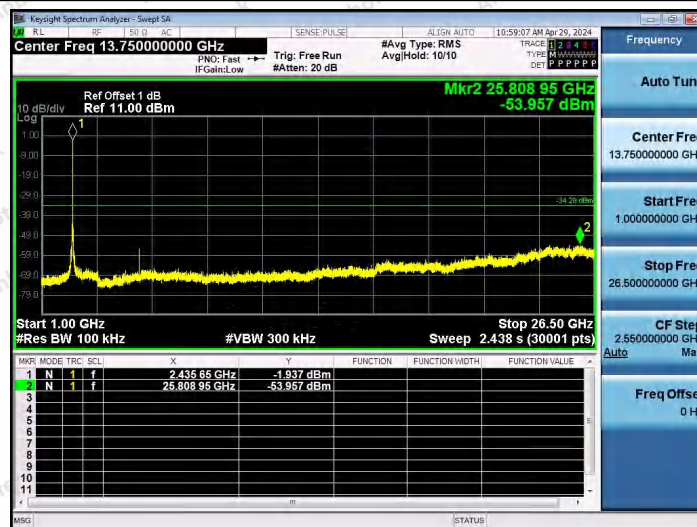




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11N20SISO-Ant1-2437-30~1000-PASS



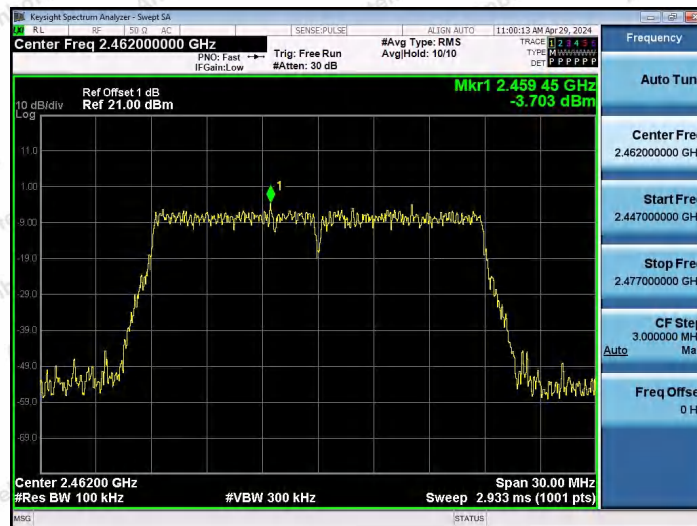
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Shenzhen Anbotek Compliance Laboratory Limited

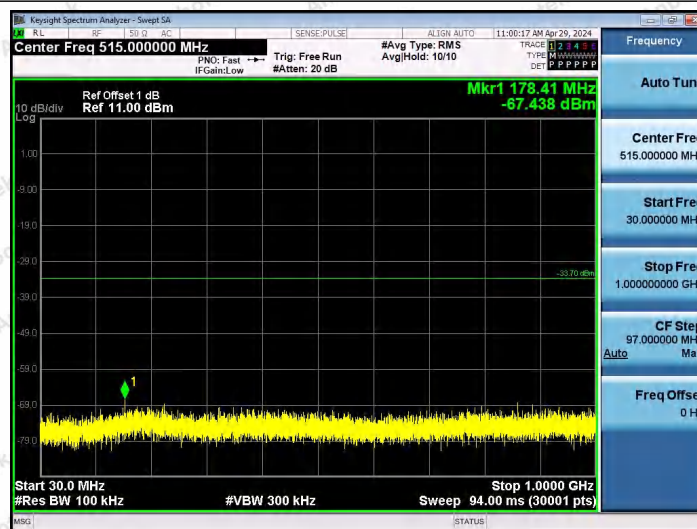
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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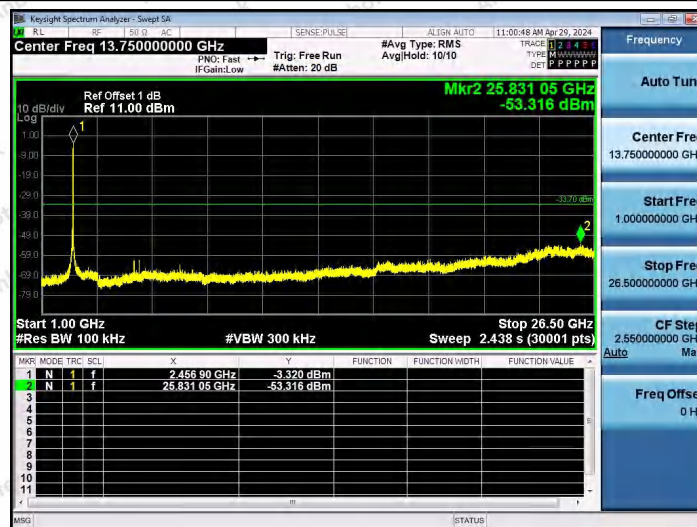




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11N20SISO-Ant1-2462-30~1000-PASS



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

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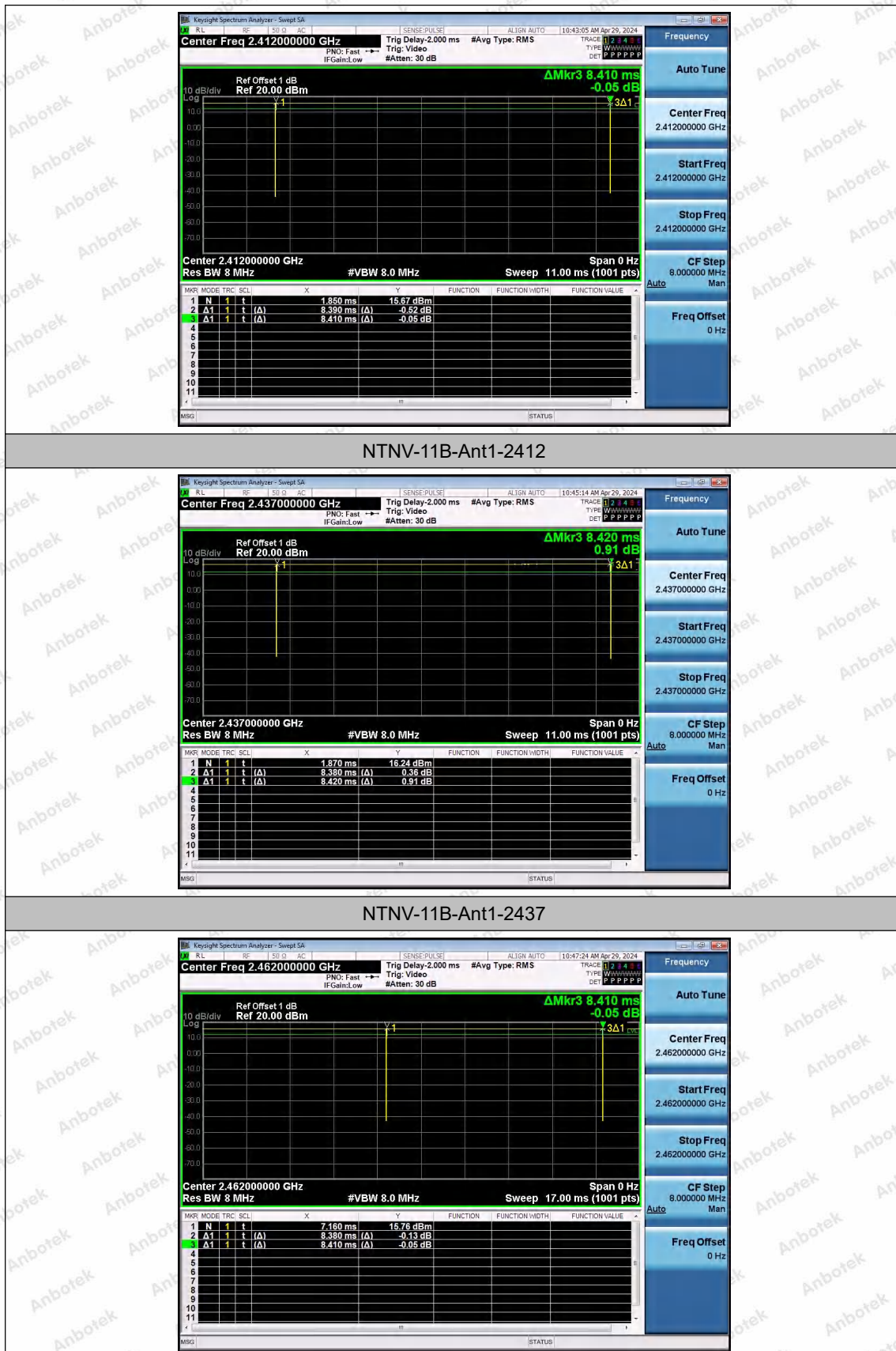
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.41	99.76	0.01
11B	Ant1	2437	8.38	8.42	99.52	0.02
11B	Ant1	2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
11G	Ant1	2437	1.39	1.43	97.20	0.12
11G	Ant1	2462	1.39	1.42	97.89	0.09
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2437	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2462	1.30	1.34	97.01	0.13



Test Graphs



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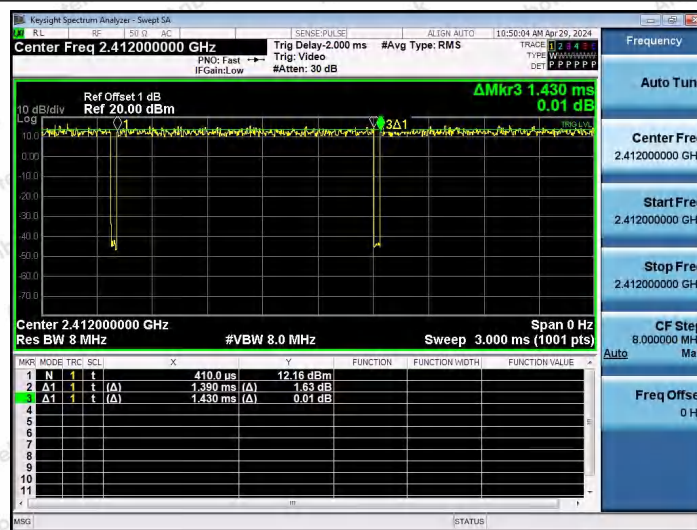
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



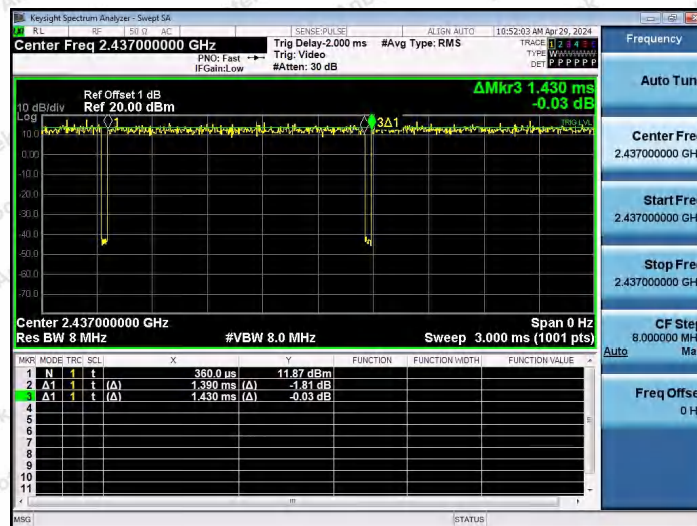
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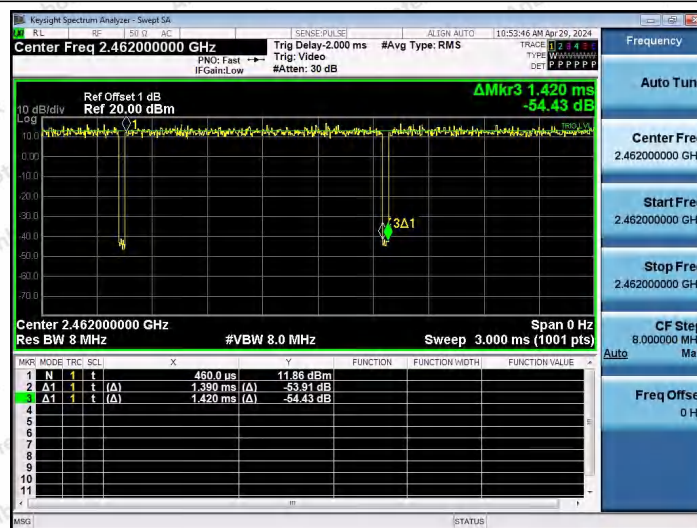
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

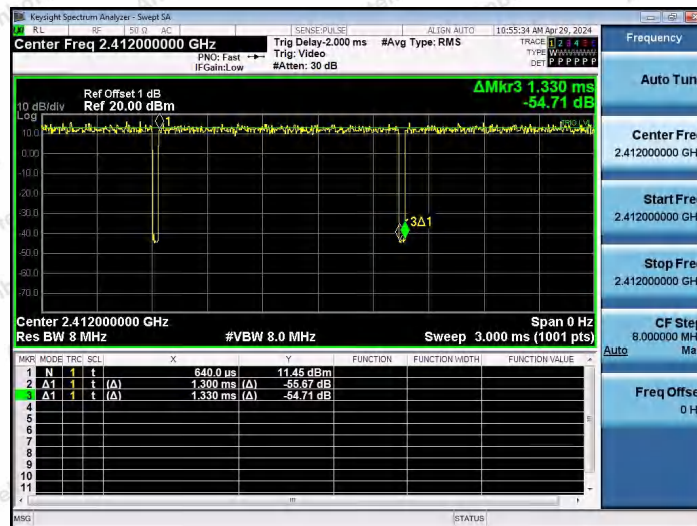
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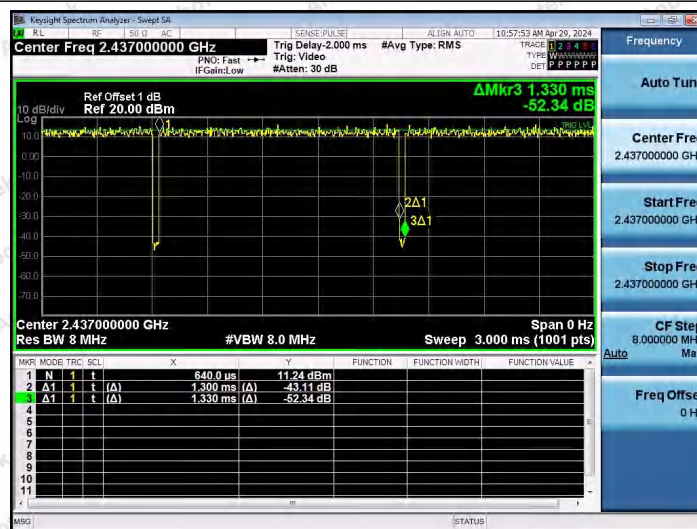


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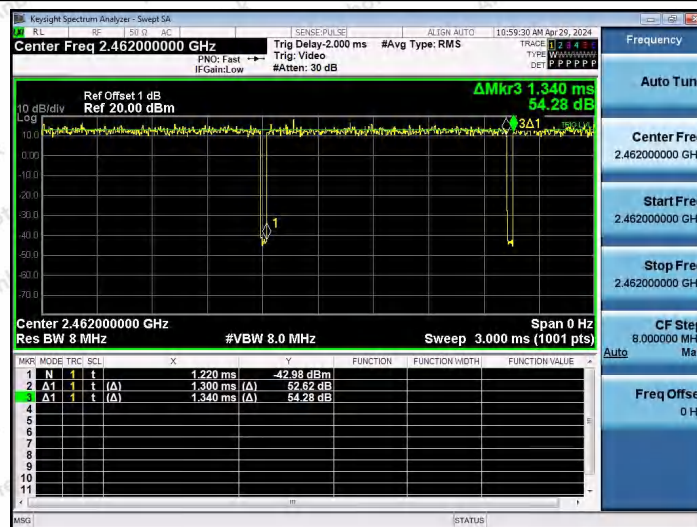




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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