

Appendix Test Data

Report No.:	1814C40017912502	Test Sample No.:	1-2-2
Start Test Date:	2024.8.20	Finish Test Date:	2024.8.21
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	49%
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	8.040	2407.960	2416.000	0.5	PASS
11B	Ant1	2437	8.040	2432.960	2441.000	0.5	PASS
11B	Ant1	2462	8.080	2457.920	2466.000	0.5	PASS
11G	Ant1	2412	15.240	2404.520	2419.760	0.5	PASS
11G	Ant1	2437	13.880	2430.640	2444.520	0.5	PASS
11G	Ant1	2462	13.960	2455.480	2469.440	0.5	PASS
11N20SISO	Ant1	2412	13.160	2406.360	2419.520	0.5	PASS
11N20SISO	Ant1	2437	12.240	2430.760	2443.000	0.5	PASS
11N20SISO	Ant1	2462	15.400	2454.080	2469.480	0.5	PASS



Test Graphs



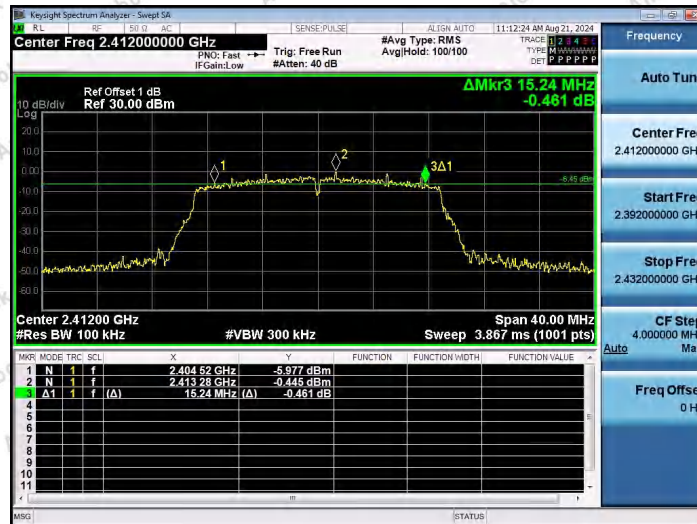
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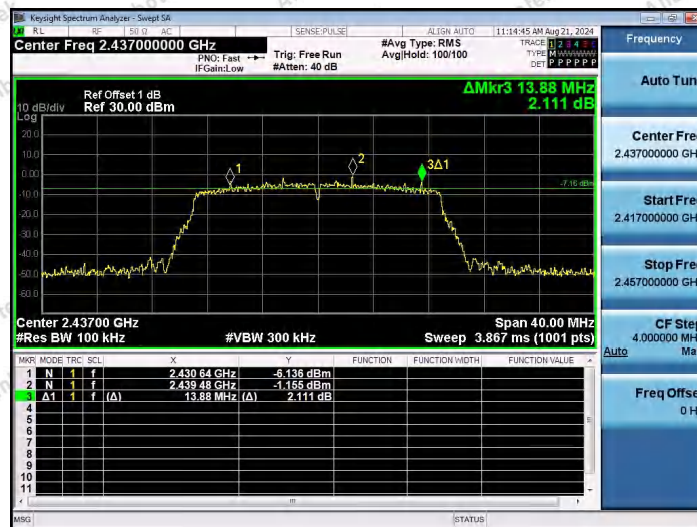


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11G-Ant1-2412-PASS

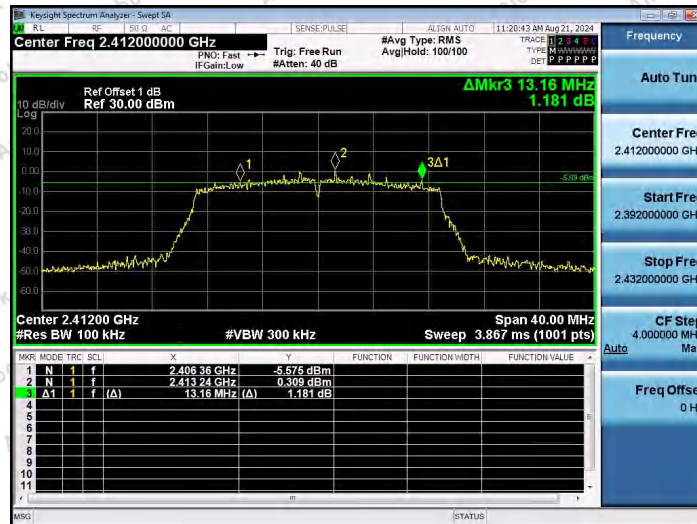


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS





11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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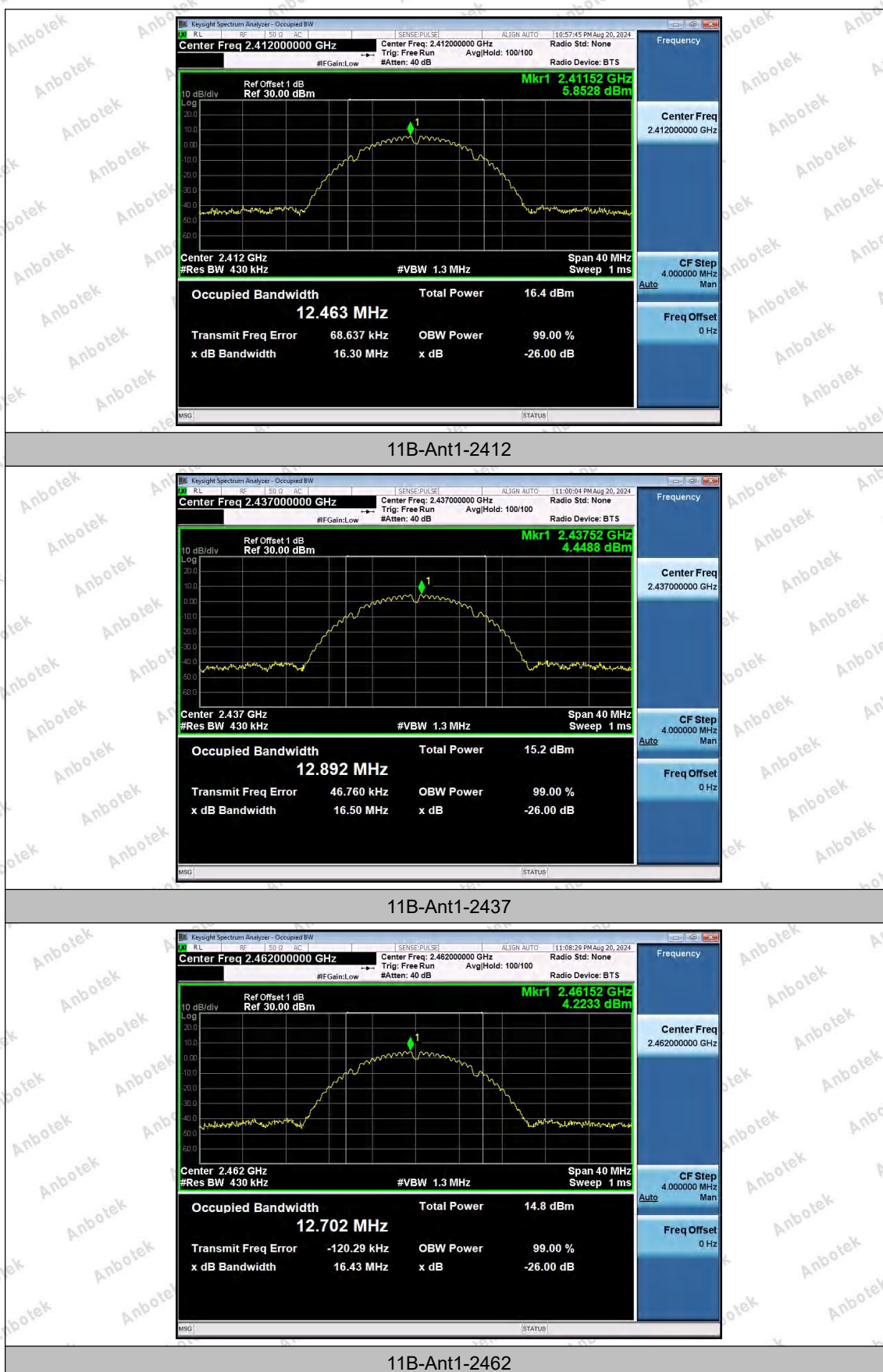
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.463	2405.8371	2418.3001	---	---
11B	Ant1	2437	12.892	2430.6008	2443.4928	---	---
11B	Ant1	2462	12.702	2455.5287	2468.2307	---	---
11G	Ant1	2412	17.648	2403.2236	2420.8716	---	---
11G	Ant1	2437	17.764	2428.1645	2445.9285	---	---
11G	Ant1	2462	17.748	2453.0898	2470.8378	---	---
11N20SISO	Ant1	2412	17.656	2403.2178	2420.8738	---	---
11N20SISO	Ant1	2437	17.821	2428.1184	2445.9394	---	---
11N20SISO	Ant1	2462	17.676	2453.1546	2470.8306	---	---



Test Graphs



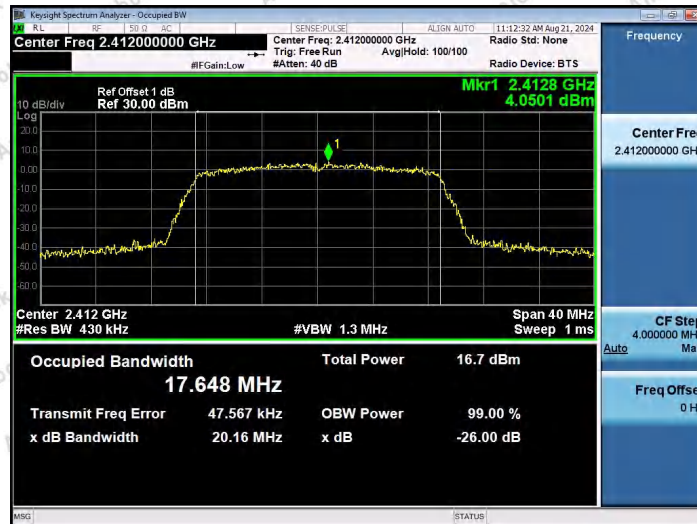
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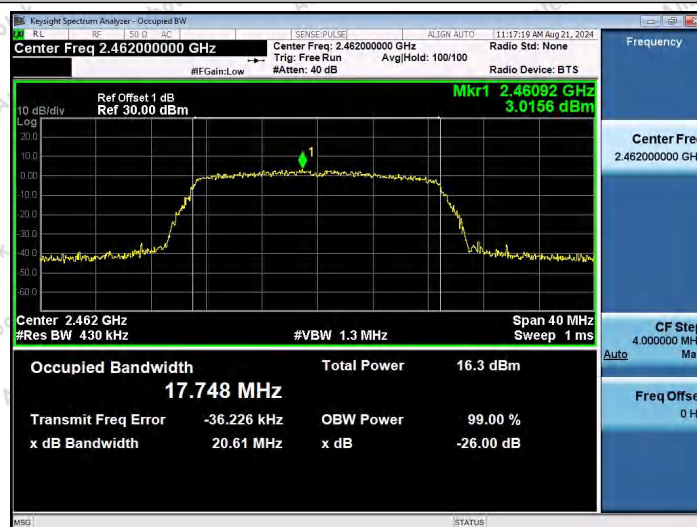




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

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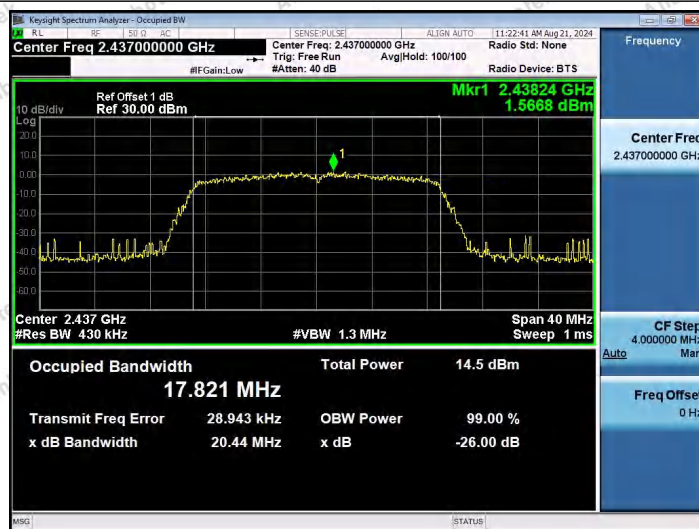


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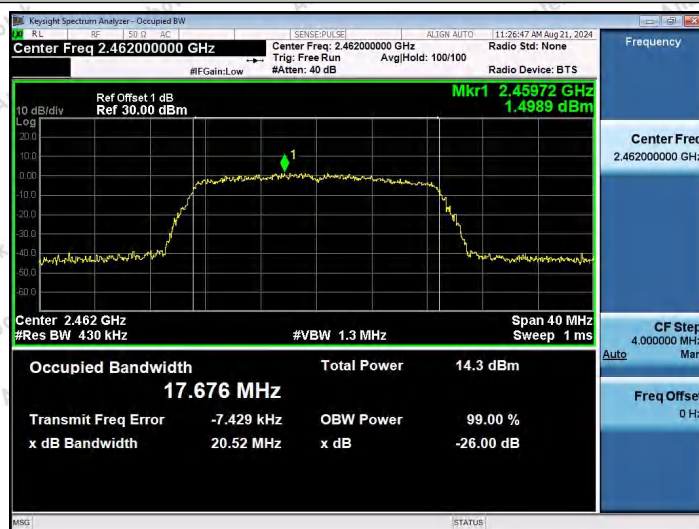




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

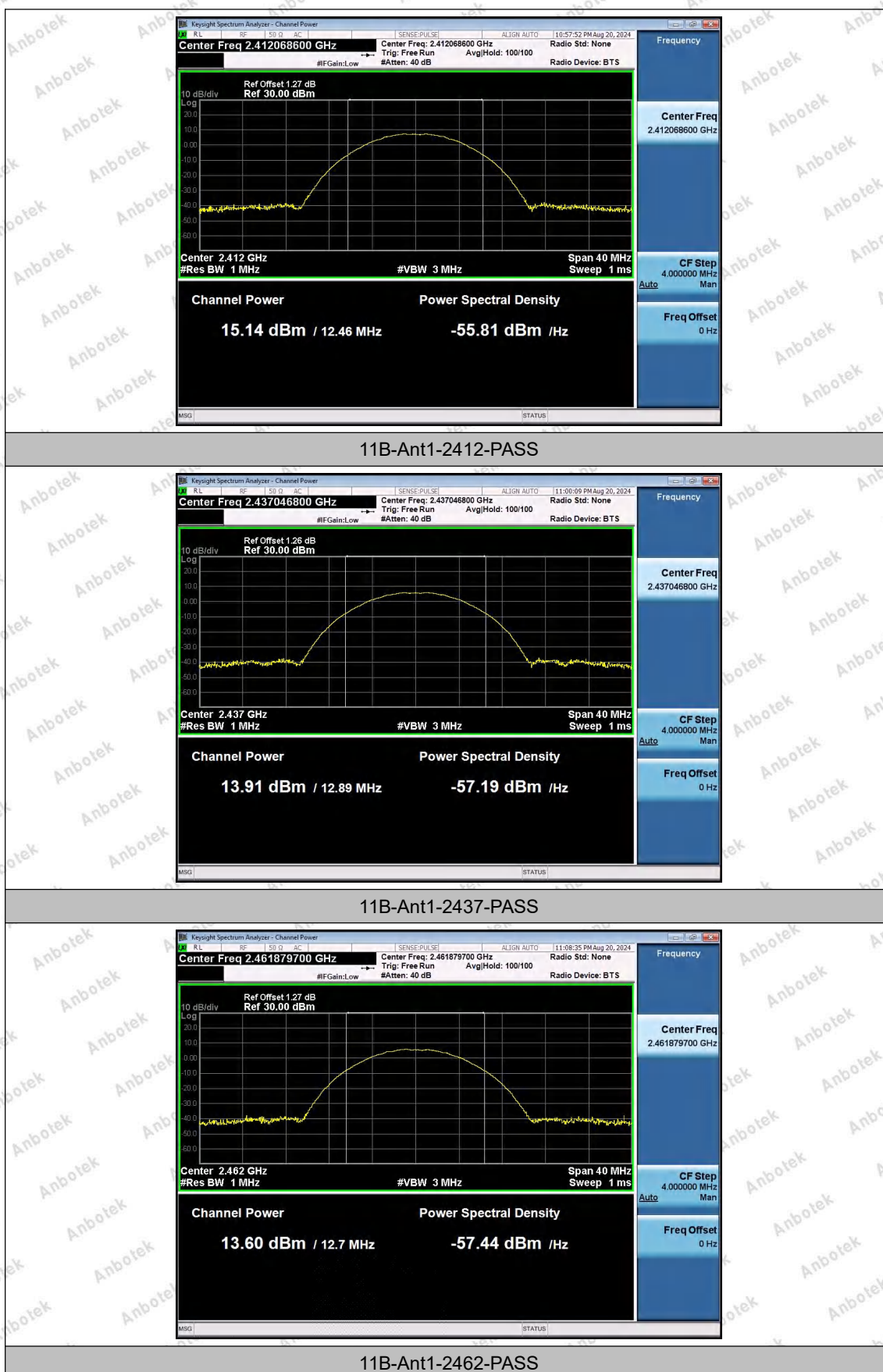
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.87	94.05	0.27	15.14	≤30.00	PASS
11B	Ant1	2437	13.65	94.16	0.26	13.91	≤30.00	PASS
11B	Ant1	2462	13.33	94.05	0.27	13.60	≤30.00	PASS
11G	Ant1	2412	15.15	70.27	1.53	16.68	≤30.00	PASS
11G	Ant1	2437	13.84	70.27	1.53	15.37	≤30.00	PASS
11G	Ant1	2462	14.65	70.65	1.51	16.16	≤30.00	PASS
11N20SISO	Ant1	2412	14.34	70.27	1.53	15.87	≤30.00	PASS
11N20SISO	Ant1	2437	13.05	70.49	1.52	14.57	≤30.00	PASS
11N20SISO	Ant1	2462	12.88	71.04	1.48	14.36	≤30.00	PASS

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



Test Graphs Average



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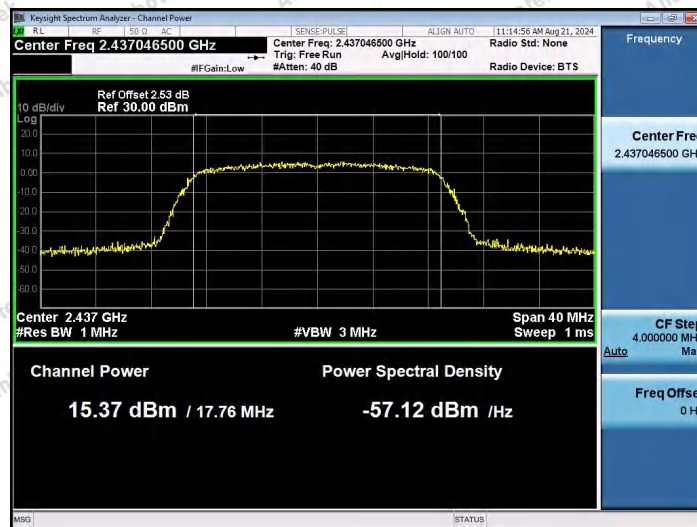


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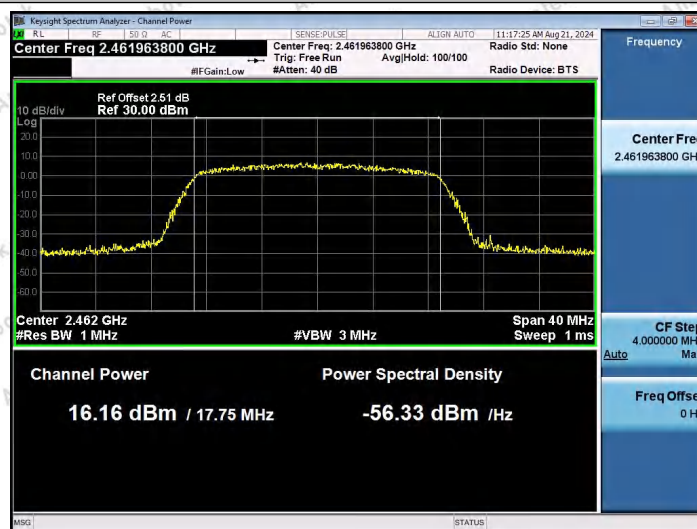




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

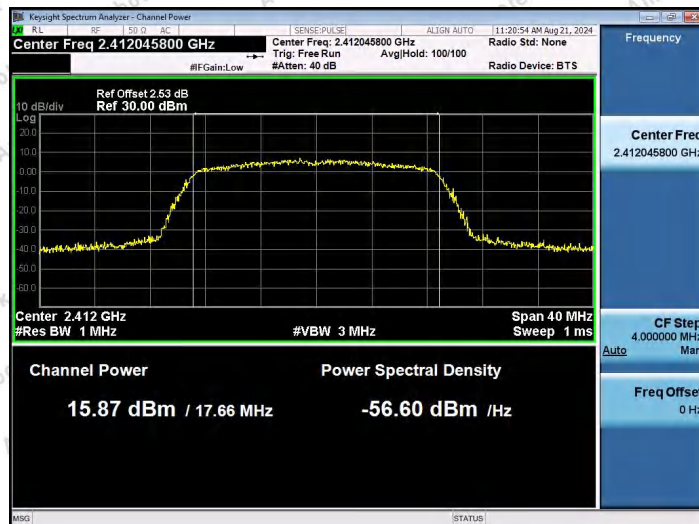
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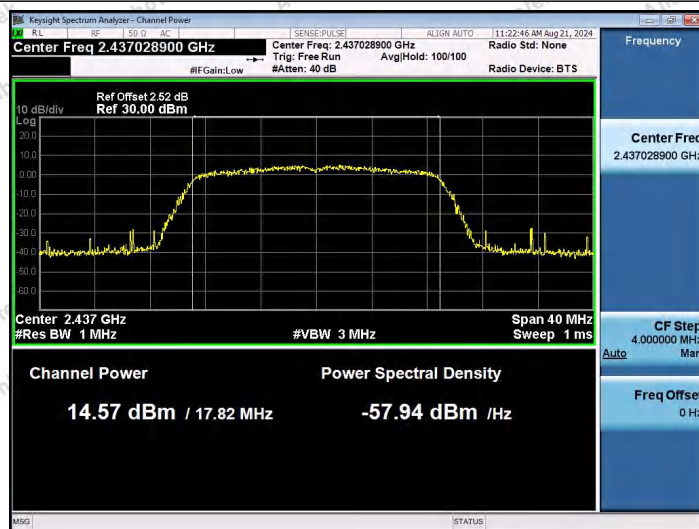


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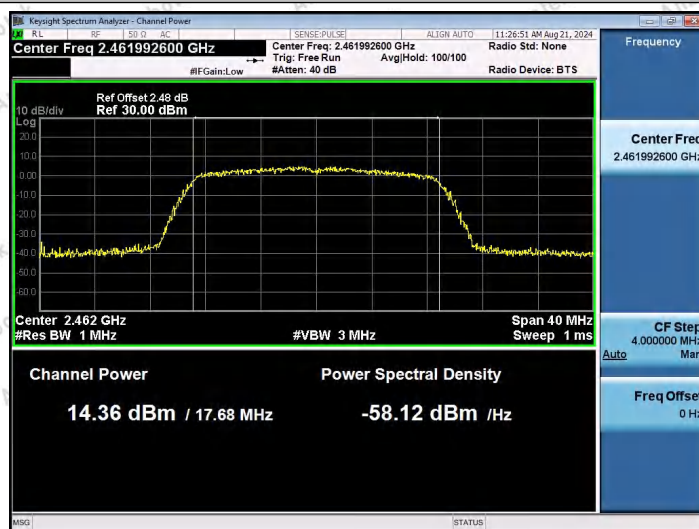




11N20SISO-Ant1-2412-PASS



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	-7.57	-17.57	≤8.00	PASS
11B	Ant1	2437	-9.08	-19.08	≤8.00	PASS
11B	Ant1	2462	-9.33	-19.33	≤8.00	PASS
11G	Ant1	2412	-11.83	-21.83	≤8.00	PASS
11G	Ant1	2437	-13.79	-23.79	≤8.00	PASS
11G	Ant1	2462	-12.66	-22.66	≤8.00	PASS
11N20SISO	Ant1	2412	-12.66	-22.66	≤8.00	PASS
11N20SISO	Ant1	2437	-14.60	-24.60	≤8.00	PASS
11N20SISO	Ant1	2462	-14.33	-24.33	≤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



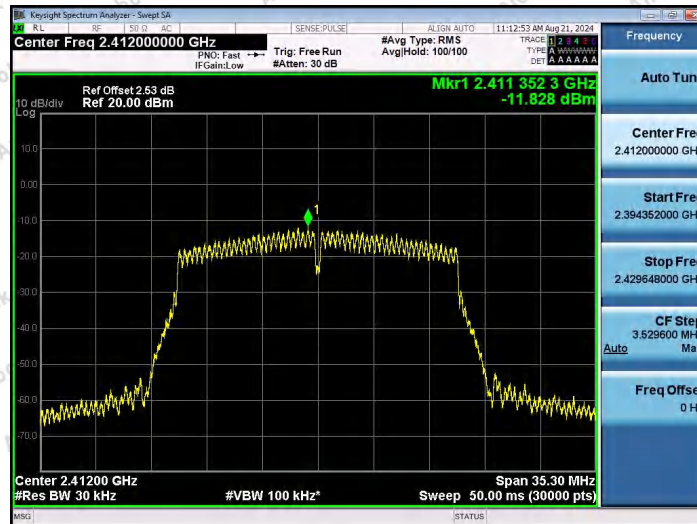
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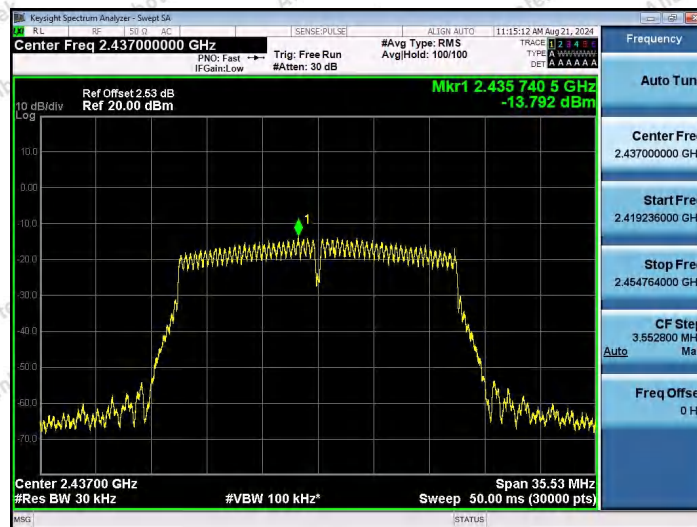


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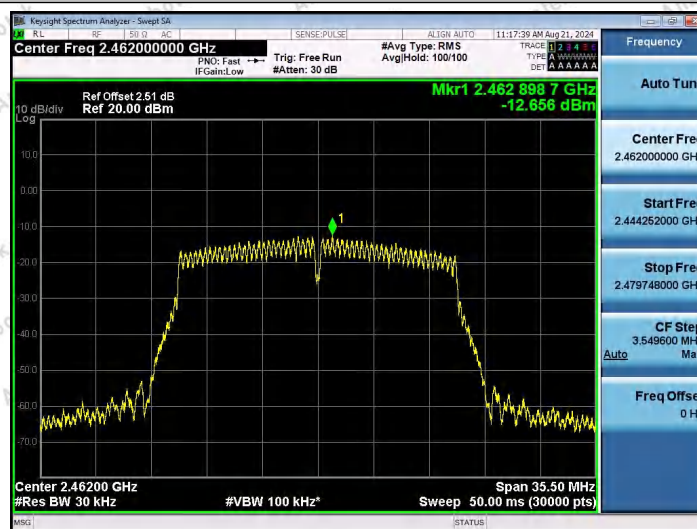




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

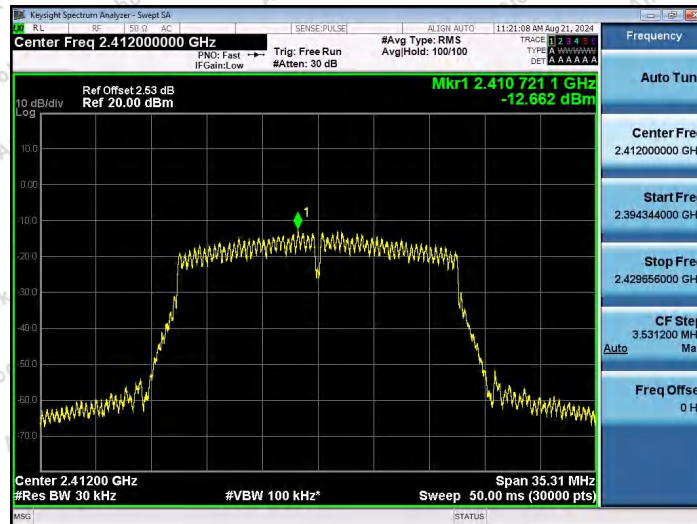
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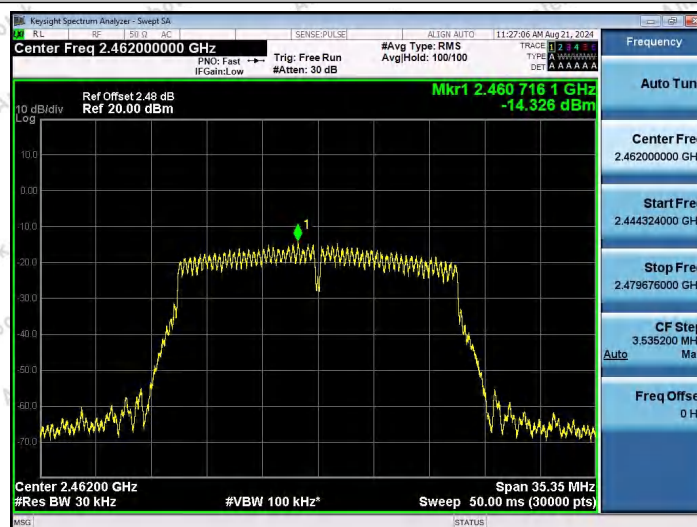




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS



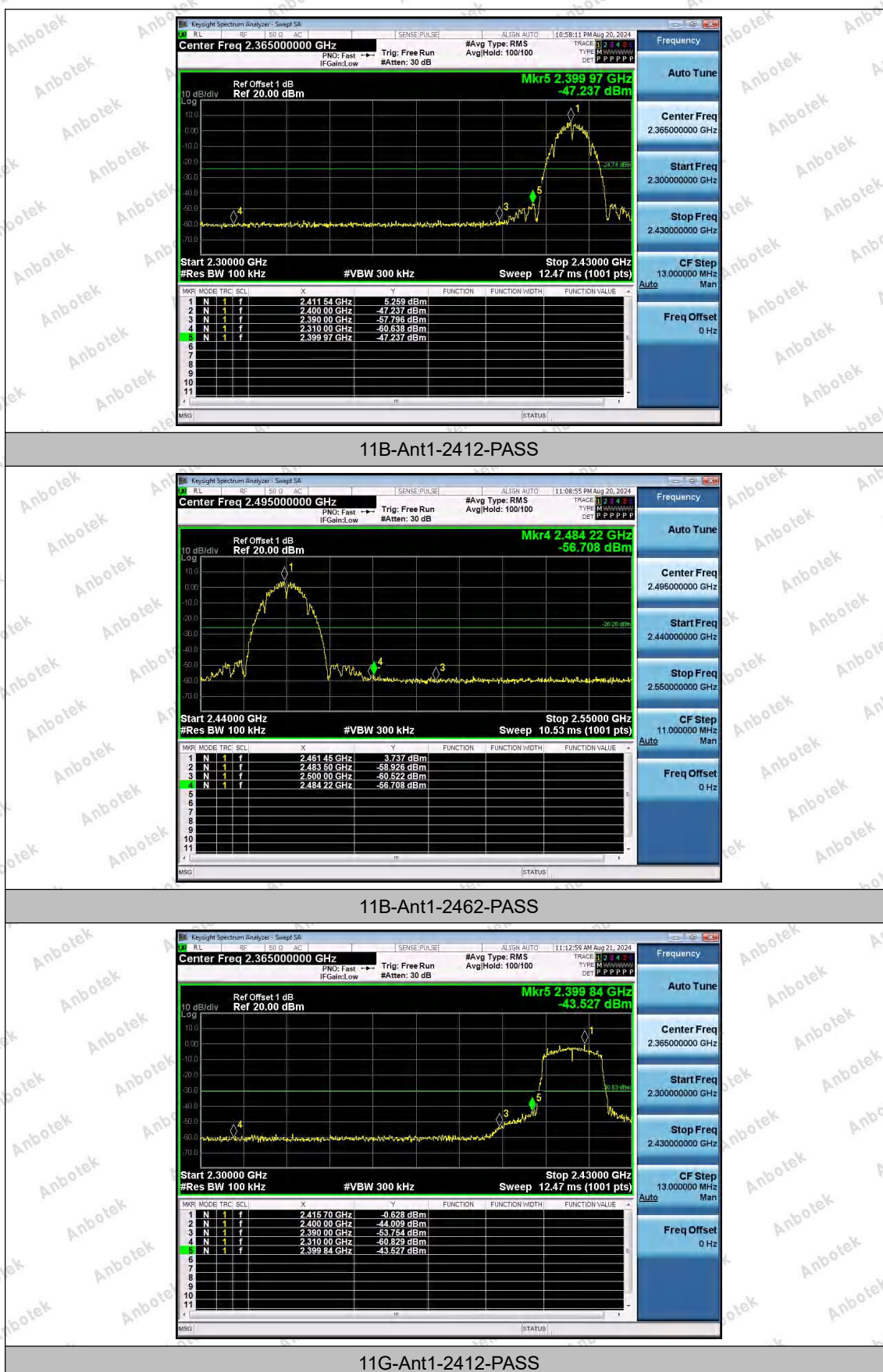
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.26	-47.24	≤-24.74	PASS
11B	Ant1	High	2462	3.74	-56.71	≤-26.26	PASS
11G	Ant1	Low	2412	-0.63	-43.53	≤-30.63	PASS
11G	Ant1	High	2462	-0.41	-50.24	≤-30.41	PASS
11N20SISO	Ant1	Low	2412	-1.18	-43.79	≤-31.18	PASS
11N20SISO	Ant1	High	2462	-3.39	-53.5	≤-33.39	PASS



Test Graphs



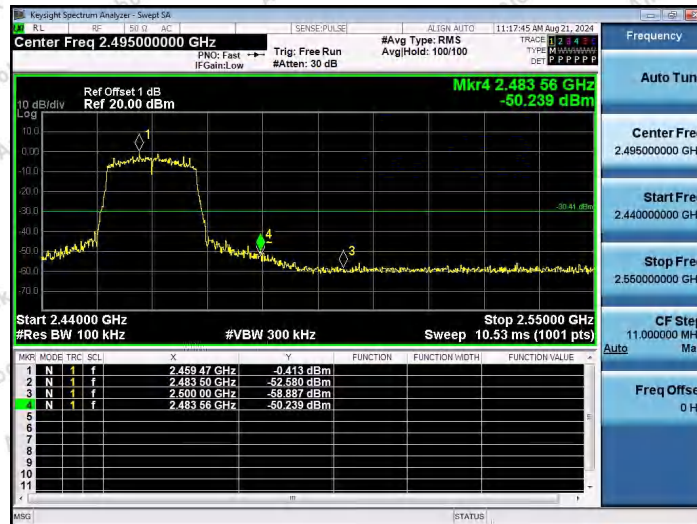
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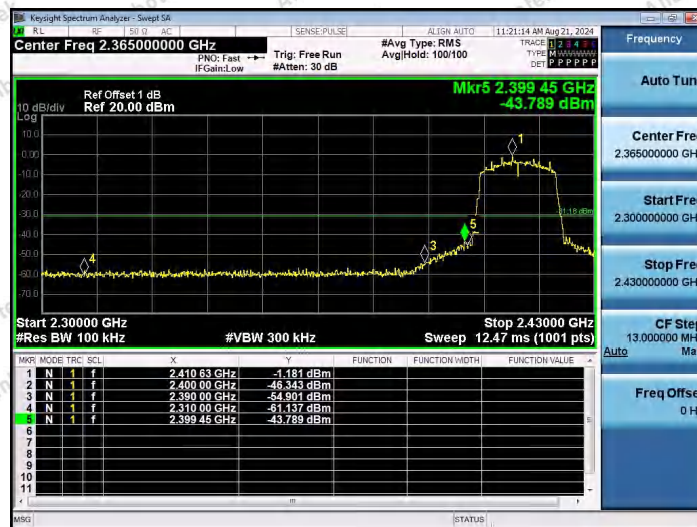


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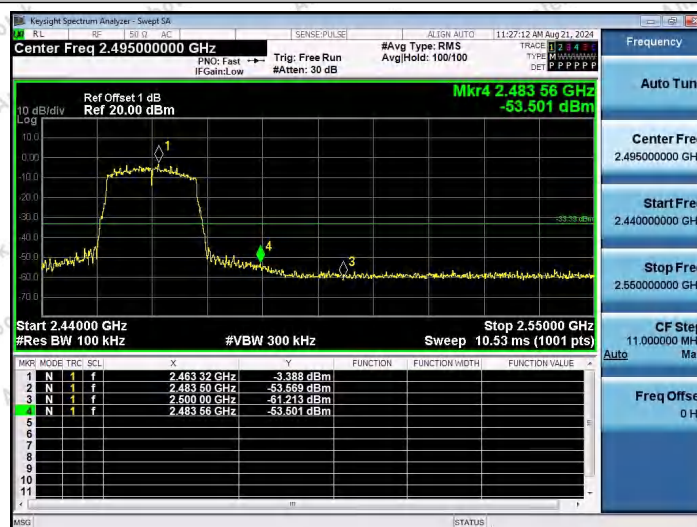




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

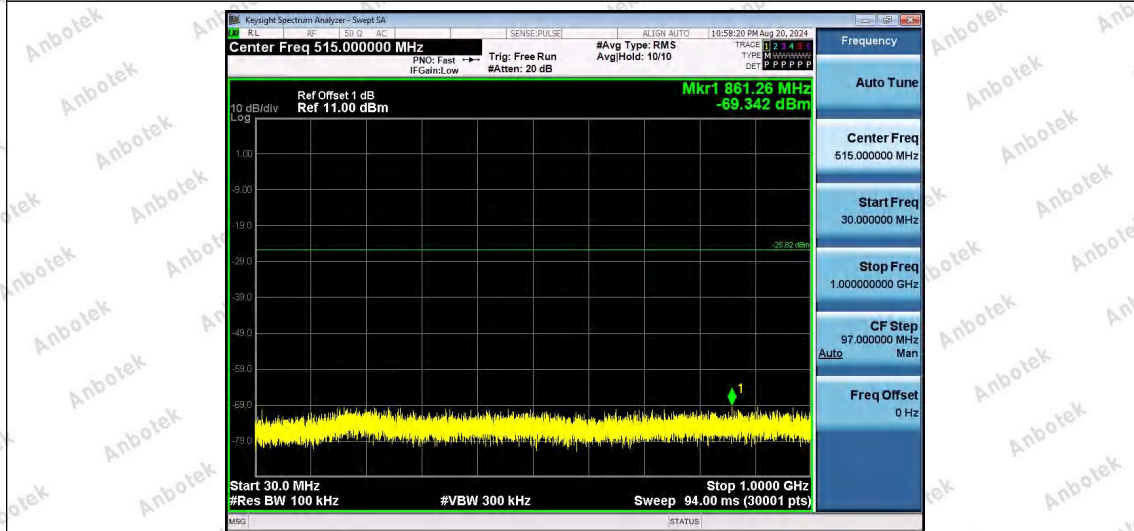
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11B	Ant1	2412	0~Reference	4.18	4.18	---	PASS
11B	Ant1	2412	30~1000	4.18	-69.34	≤-25.82	PASS
11B	Ant1	2412	1000~26500	4.18	-46.41	≤-25.82	PASS
11B	Ant1	2437	0~Reference	2.53	2.53	---	PASS
11B	Ant1	2437	30~1000	2.53	-67.56	≤-27.47	PASS
11B	Ant1	2437	1000~26500	2.53	-47.32	≤-27.47	PASS
11B	Ant1	2462	0~Reference	2.15	2.15	---	PASS
11B	Ant1	2462	30~1000	2.15	-69.27	≤-27.85	PASS
11B	Ant1	2462	1000~26500	2.15	-47.63	≤-27.85	PASS
11G	Ant1	2412	0~Reference	-2.60	-2.60	---	PASS
11G	Ant1	2412	30~1000	-2.60	-68.7	≤-32.6	PASS
11G	Ant1	2412	1000~26500	-2.60	-54.01	≤-32.6	PASS
11G	Ant1	2437	0~Reference	-2.84	-2.84	---	PASS
11G	Ant1	2437	30~1000	-2.84	-68.41	≤-32.84	PASS
11G	Ant1	2437	1000~26500	-2.84	-53.43	≤-32.84	PASS
11G	Ant1	2462	0~Reference	-1.01	-1.01	---	PASS
11G	Ant1	2462	30~1000	-1.01	-54.93	≤-31.01	PASS
11G	Ant1	2462	1000~26500	-1.01	-53.08	≤-31.01	PASS
11N20SISO	Ant1	2412	0~Reference	-2.93	-2.93	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.93	-59.88	≤-32.93	PASS
11N20SISO	Ant1	2412	1000~26500	-2.93	-53.74	≤-32.93	PASS
11N20SISO	Ant1	2437	0~Reference	-5.25	-5.25	---	PASS
11N20SISO	Ant1	2437	30~1000	-5.25	-68.53	≤-35.25	PASS
11N20SISO	Ant1	2437	1000~26500	-5.25	-53.23	≤-35.25	PASS
11N20SISO	Ant1	2462	0~Reference	-5.58	-5.58	---	PASS
11N20SISO	Ant1	2462	30~1000	-5.58	-68.33	≤-35.58	PASS
11N20SISO	Ant1	2462	1000~26500	-5.58	-53.5	≤-35.58	PASS



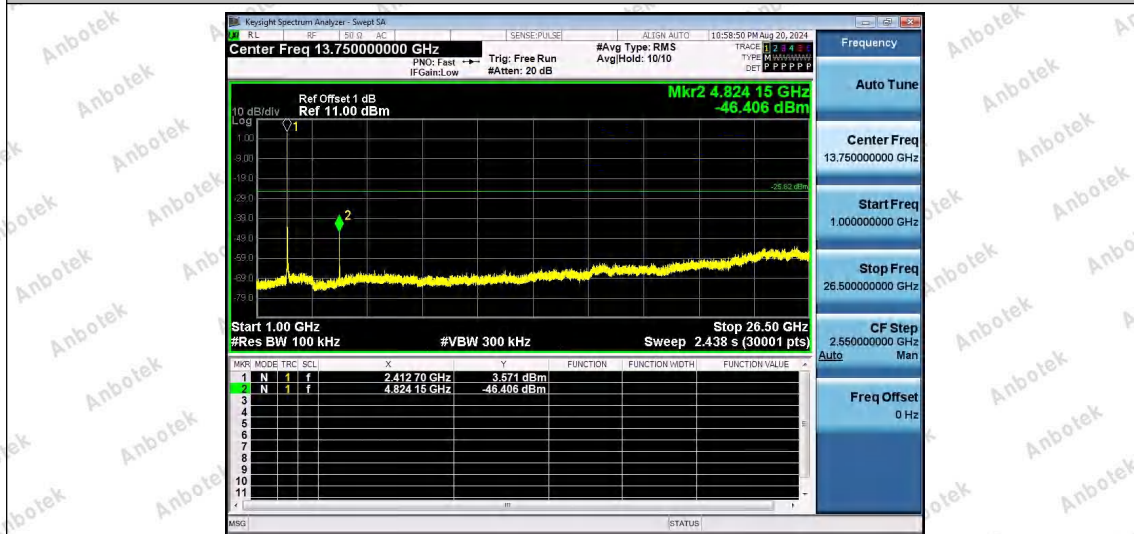
Test Graphs



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



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



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

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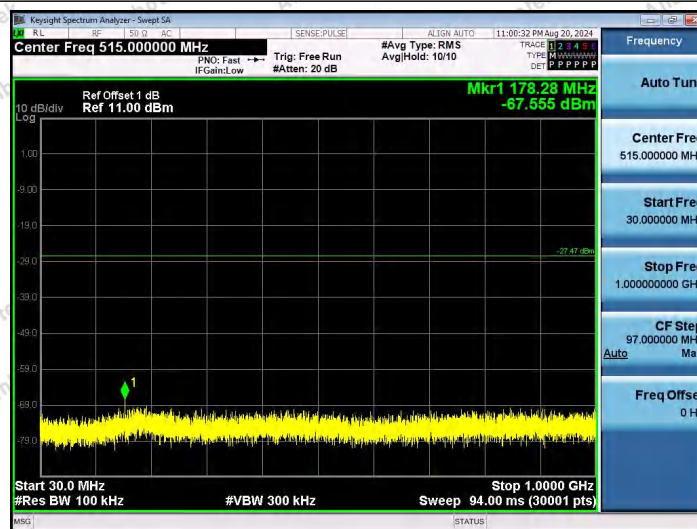


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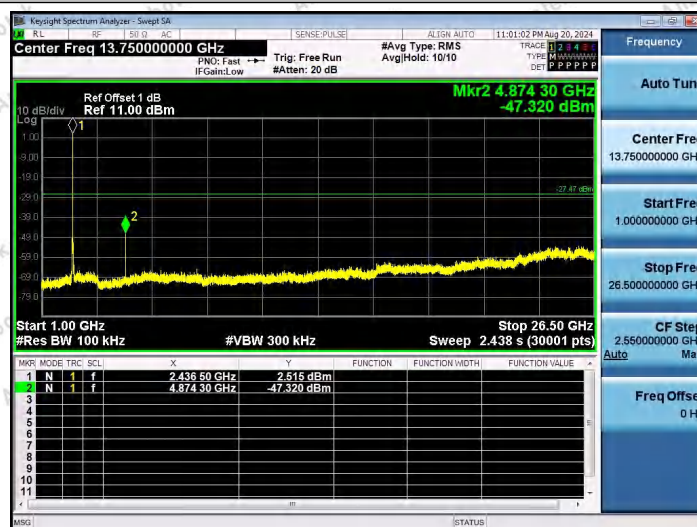




11B-Ant1-2437-0~Reference-PASS



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



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

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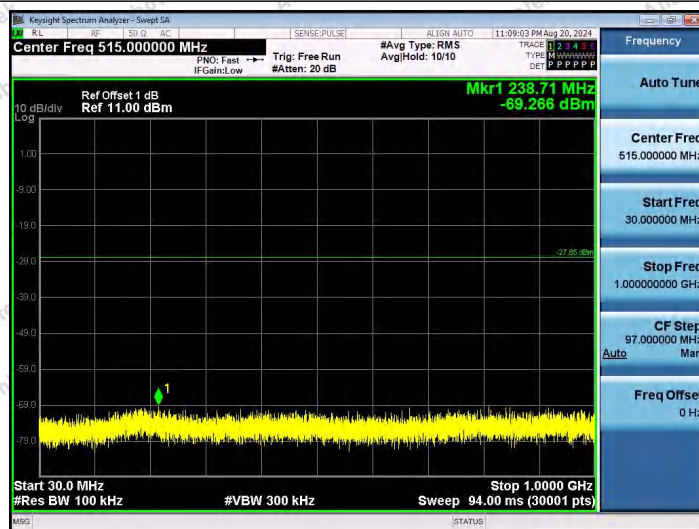


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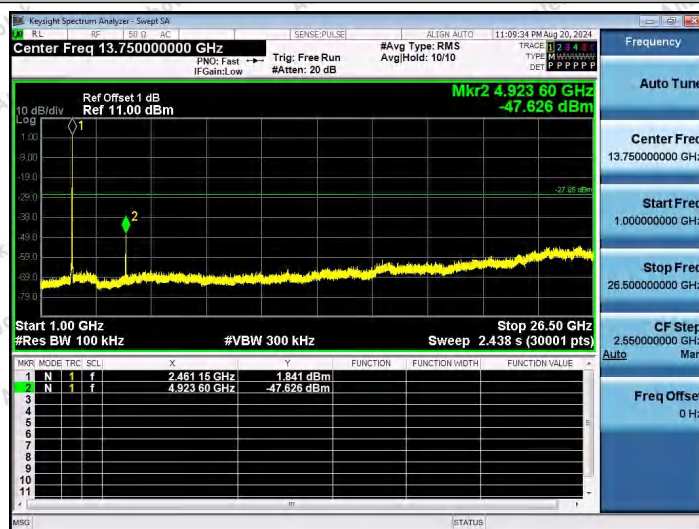




11B-Ant1-2462-0~Reference-PASS



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



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

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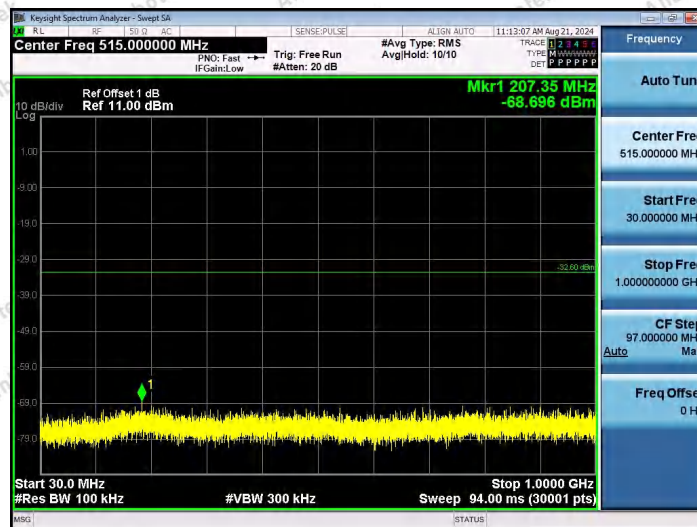


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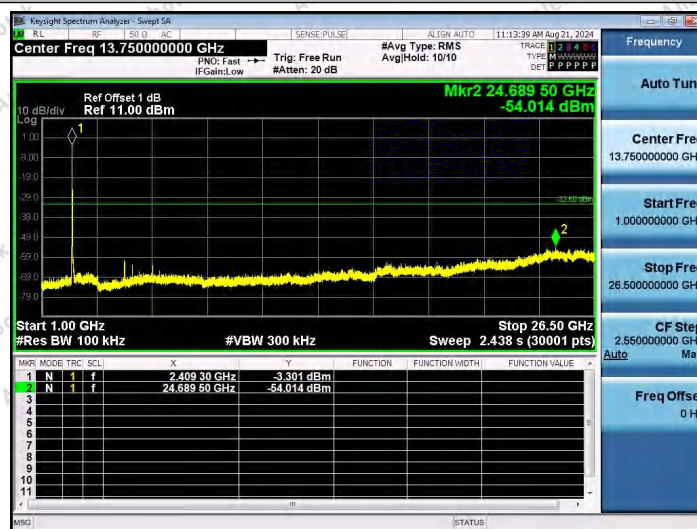




11G-Ant1-2412-0~Reference-PASS



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



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

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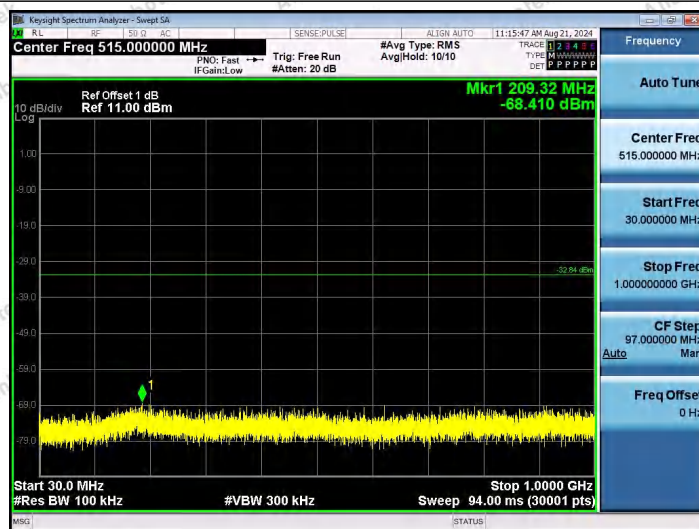


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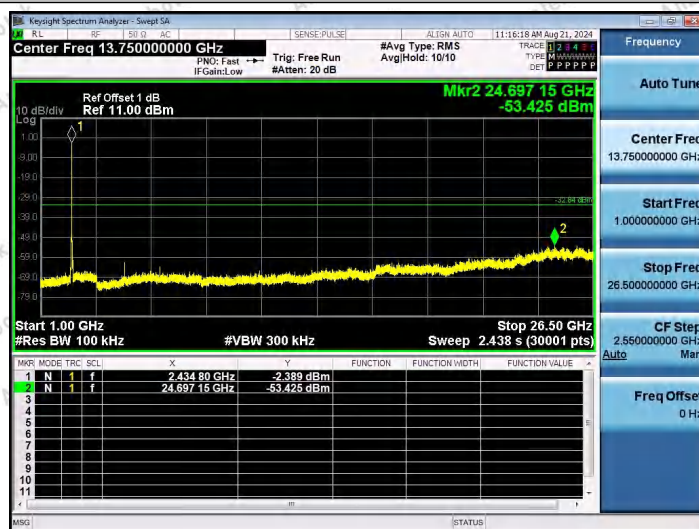




11G-Ant1-2437-0~Reference-PASS



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



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

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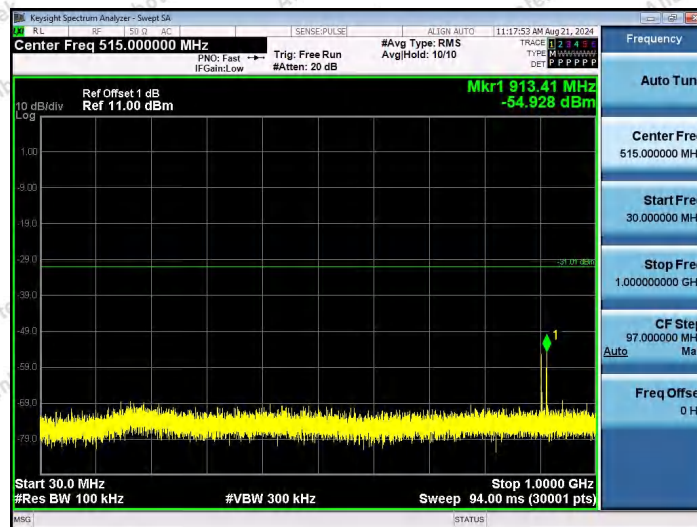


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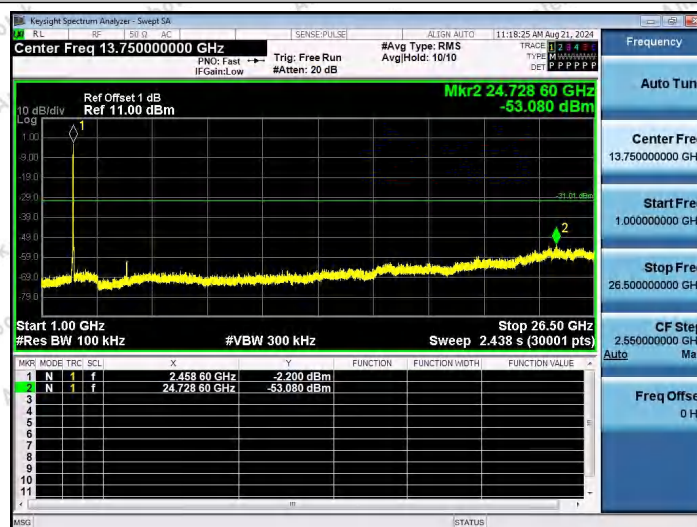




11G-Ant1-2462-0~Reference-PASS



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



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

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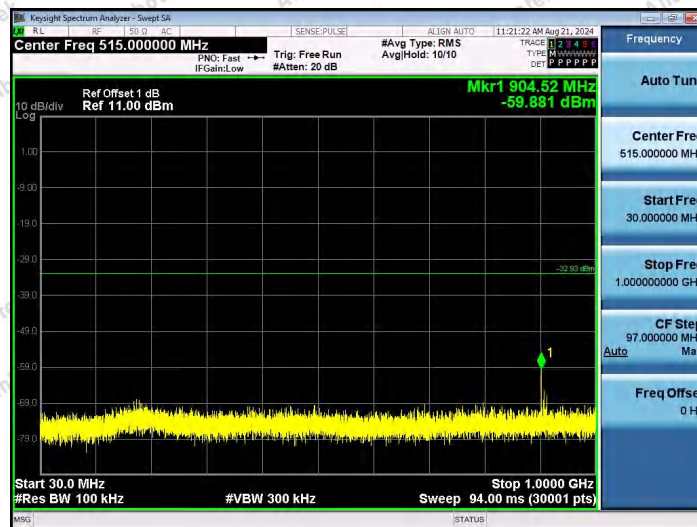


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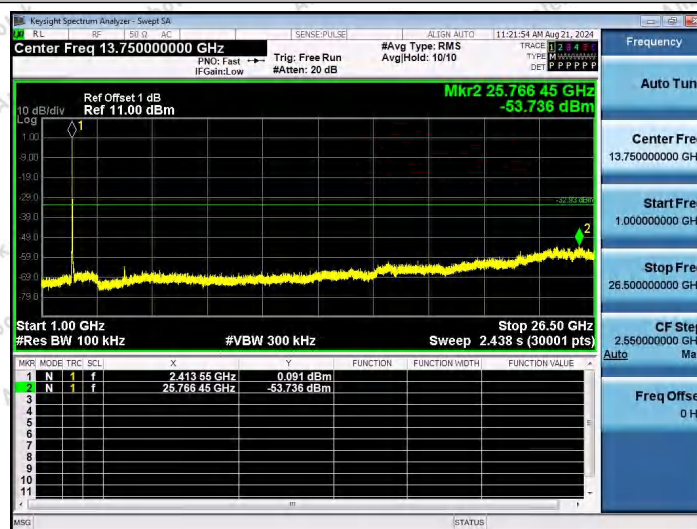




11N20SISO-Ant1-2412-0~Reference-PASS



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



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

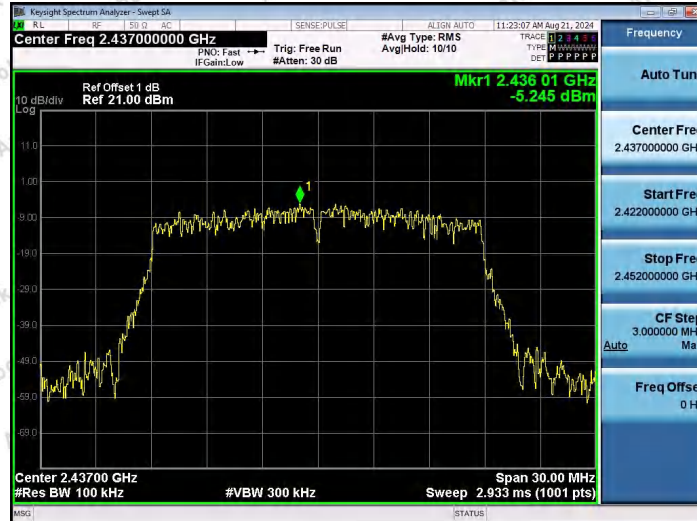
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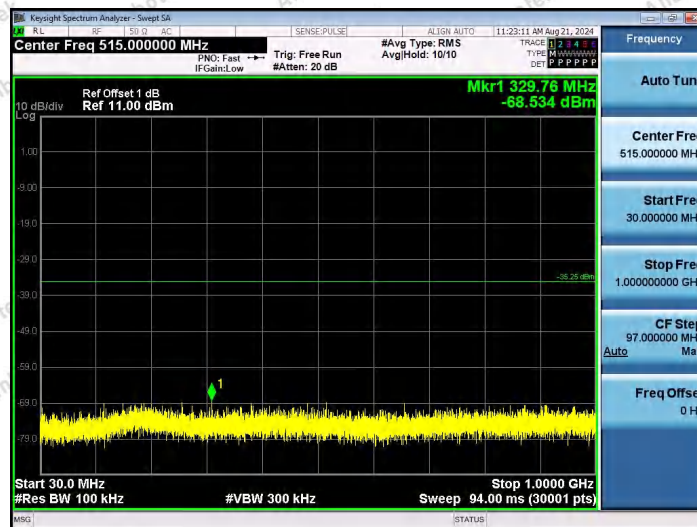


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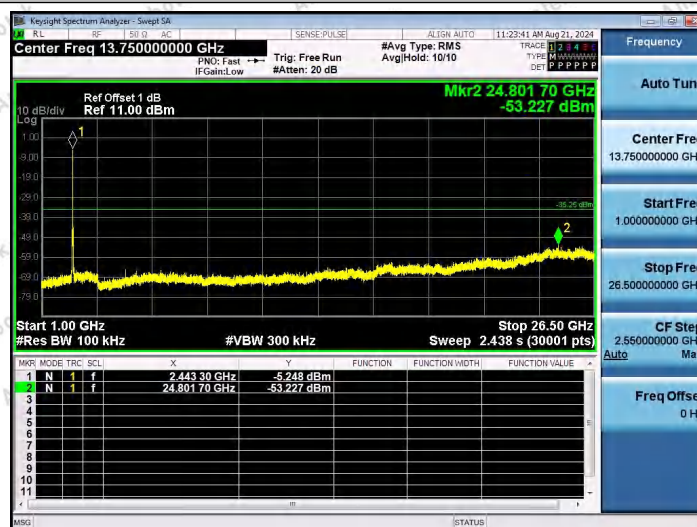




11N20SISO-Ant1-2437-0~Reference-PASS



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



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

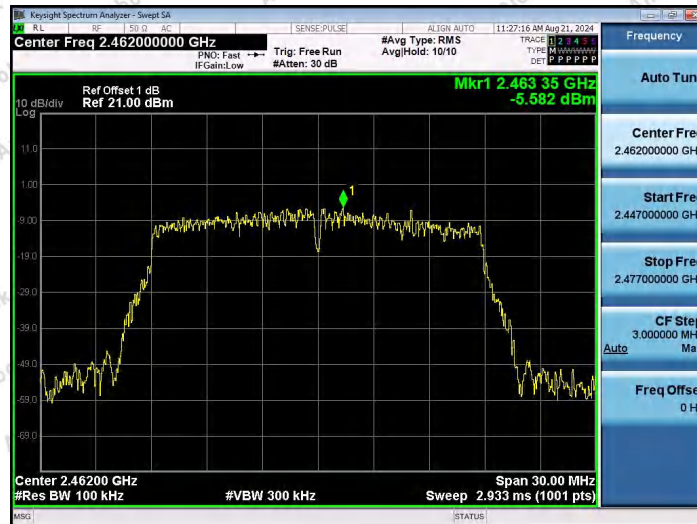
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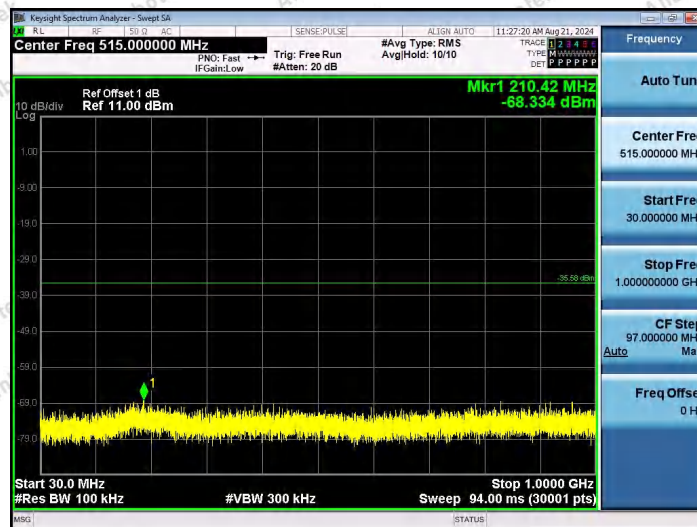


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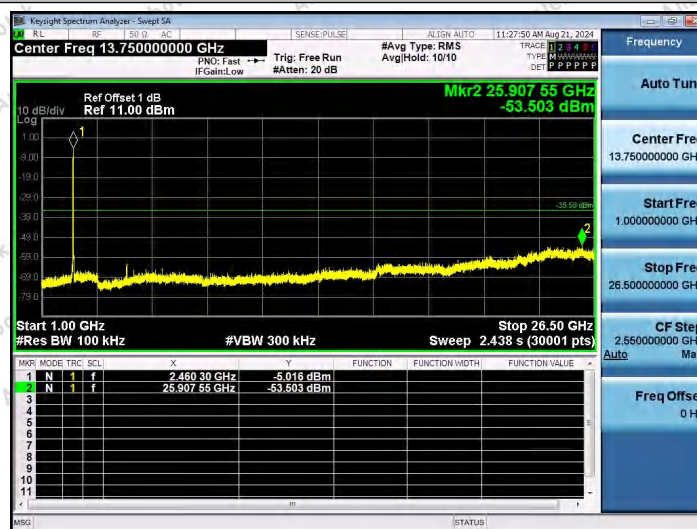




11N20SISO-Ant1-2462-0~Reference-PASS



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



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

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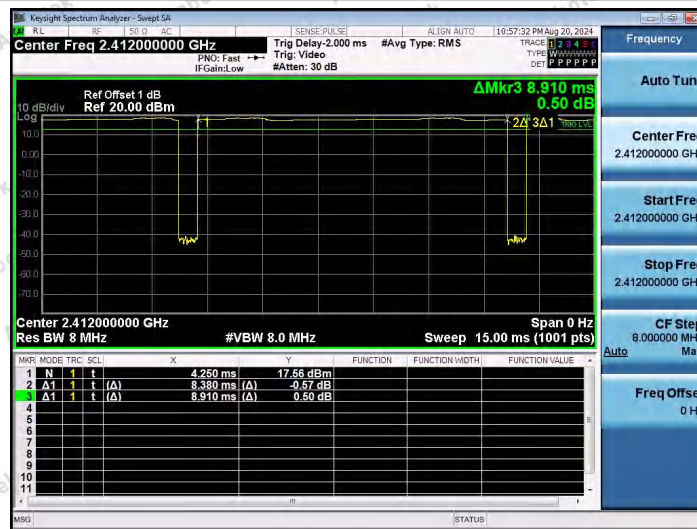
Appendix G: Duty Cycle

Test Result

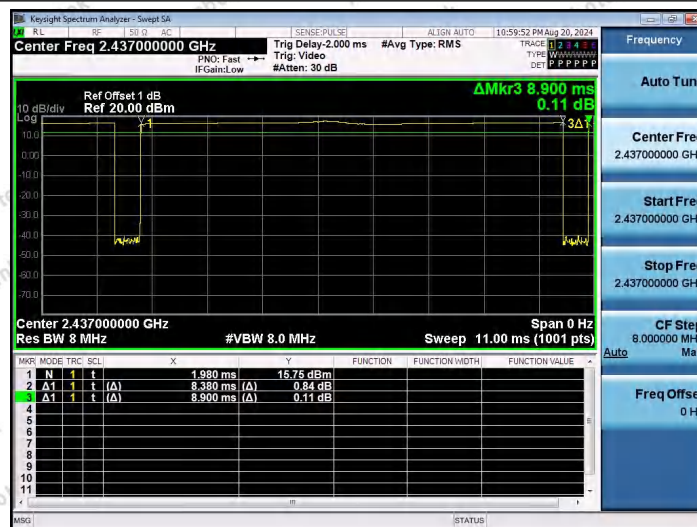
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.91	94.05	0.27
11B	Ant1	2437	8.38	8.90	94.16	0.26
11B	Ant1	2462	8.38	8.91	94.05	0.27
11G	Ant1	2412	1.30	1.85	70.27	1.53
11G	Ant1	2437	1.30	1.85	70.27	1.53
11G	Ant1	2462	1.30	1.84	70.65	1.51
11N20SISO	Ant1	2412	1.30	1.85	70.27	1.53
11N20SISO	Ant1	2437	1.29	1.83	70.49	1.52
11N20SISO	Ant1	2462	1.30	1.83	71.04	1.48



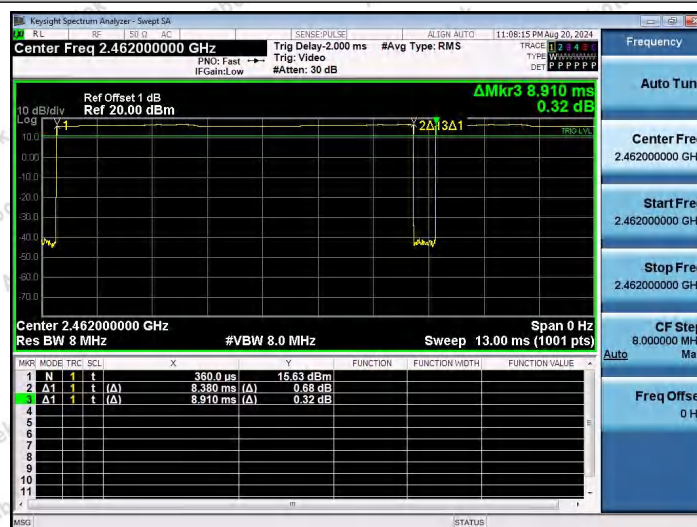
Test Graphs



NTNV-11B-Ant1-2412



NTNV-11B-Ant1-2437



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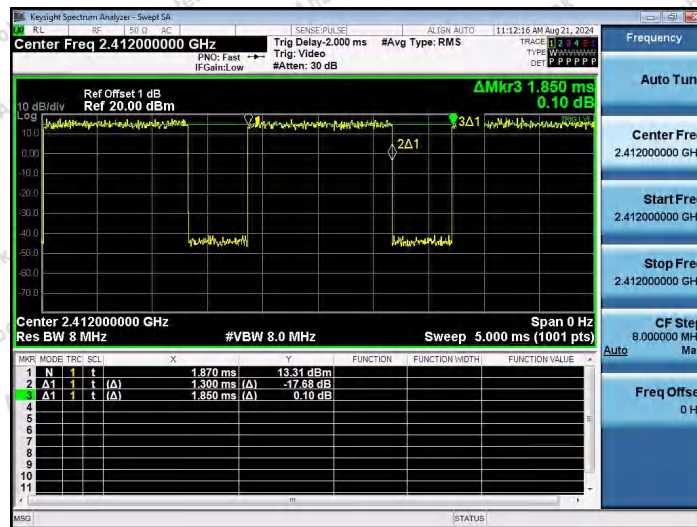
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hahqcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China,
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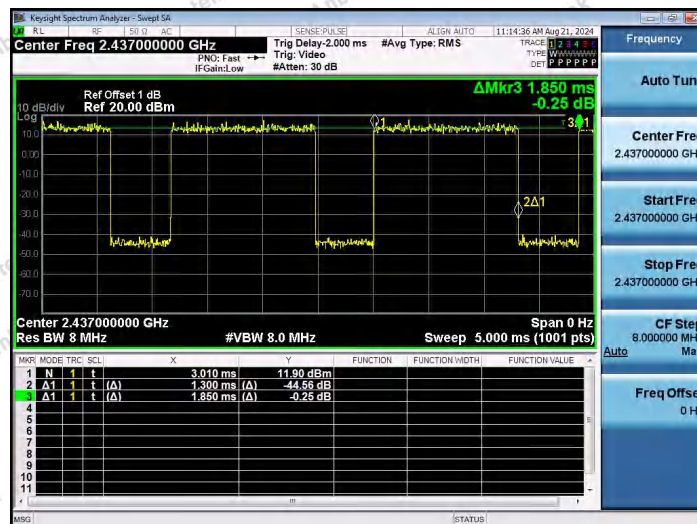
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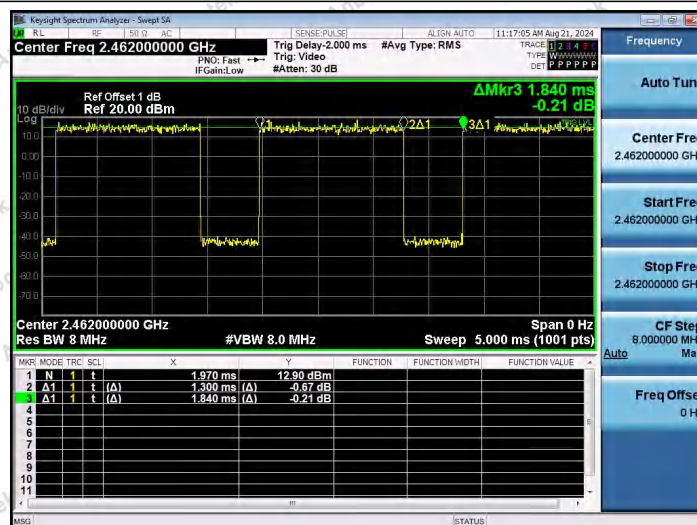
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

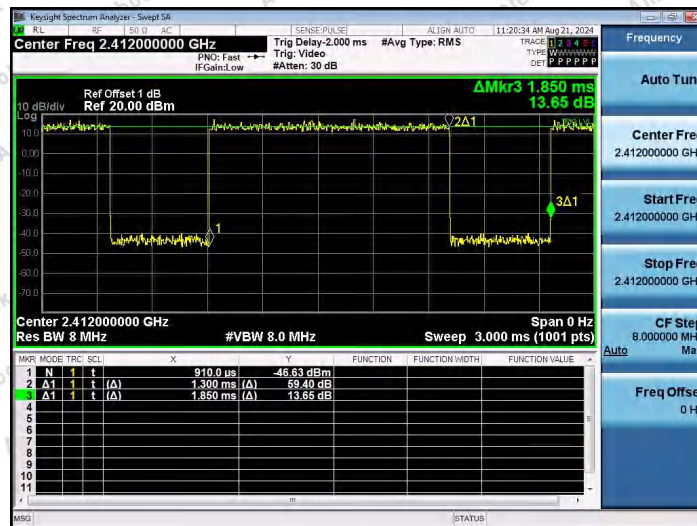
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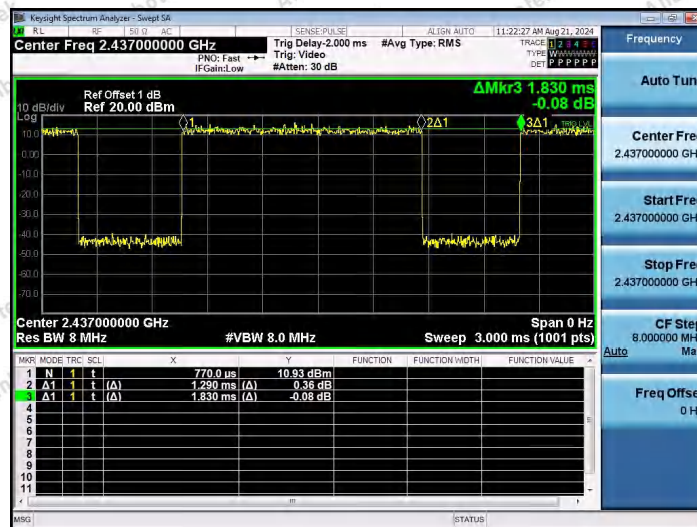


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NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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