

Appendix Test Data

Report No.:	182512C400205101	Test Sample No.:	1-2-2
Start Test Date:	2024.6.21	Finish Test Date:	2024.6.24
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	49%
Pressure:	101kPa		

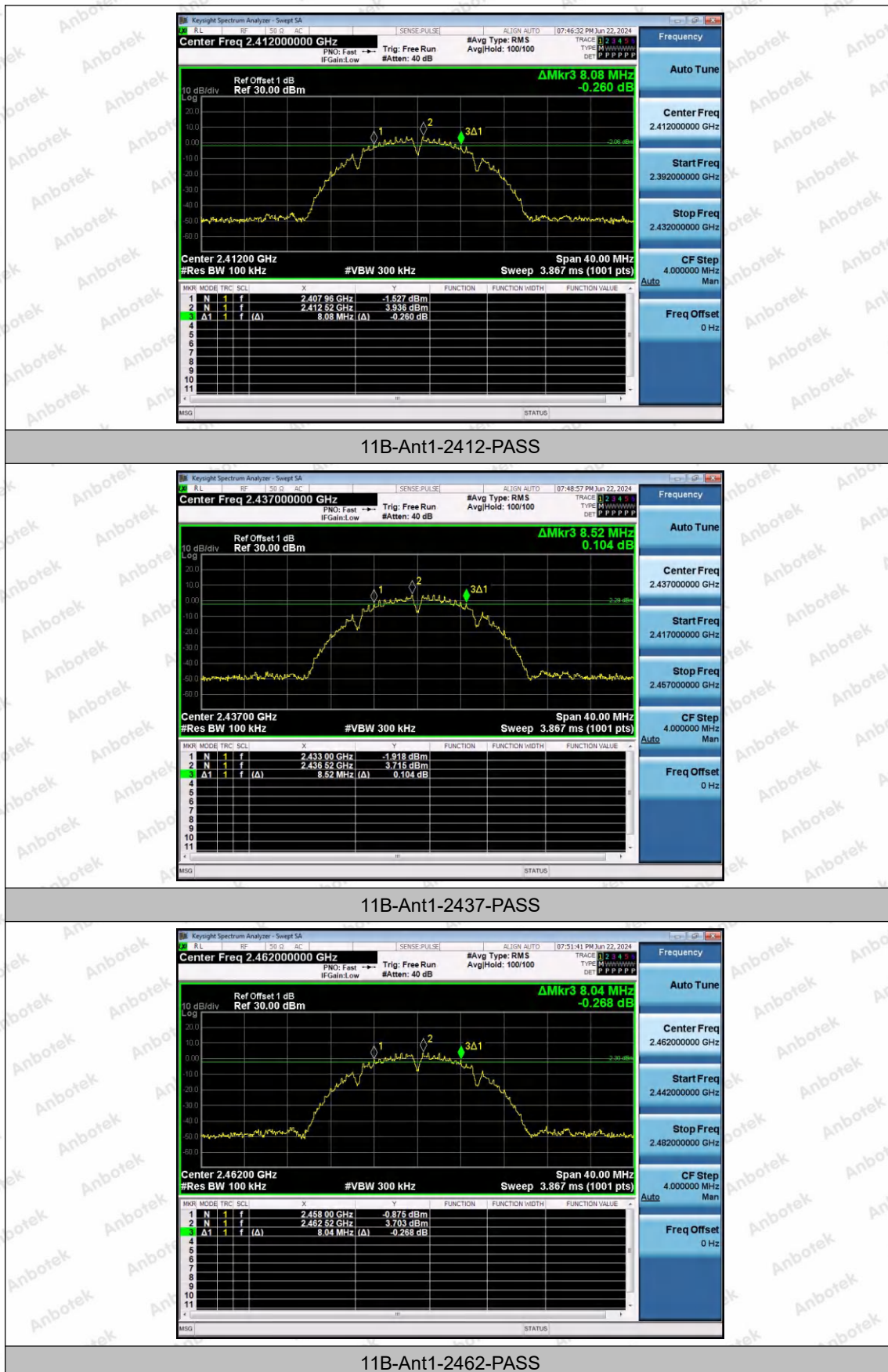
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.960	2416.040	0.5	PASS
11B	Ant1	2437	8.520	2433.000	2441.520	0.5	PASS
11B	Ant1	2462	8.040	2458.000	2466.040	0.5	PASS
11G	Ant1	2412	14.400	2403.880	2418.280	0.5	PASS
11G	Ant1	2437	14.800	2429.480	2444.280	0.5	PASS
11G	Ant1	2462	15.680	2453.880	2469.560	0.5	PASS
11N20SISO	Ant1	2412	14.280	2403.600	2417.880	0.5	PASS
11N20SISO	Ant1	2437	14.480	2430.680	2445.160	0.5	PASS
11N20SISO	Ant1	2462	15.320	2454.240	2469.560	0.5	PASS



Test Graphs



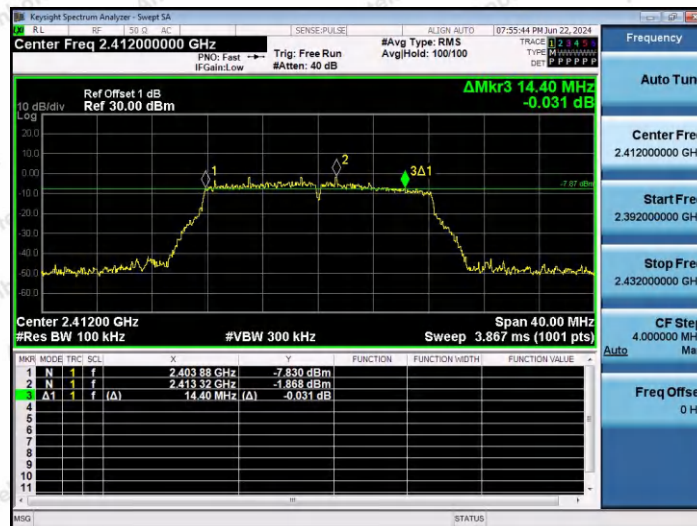
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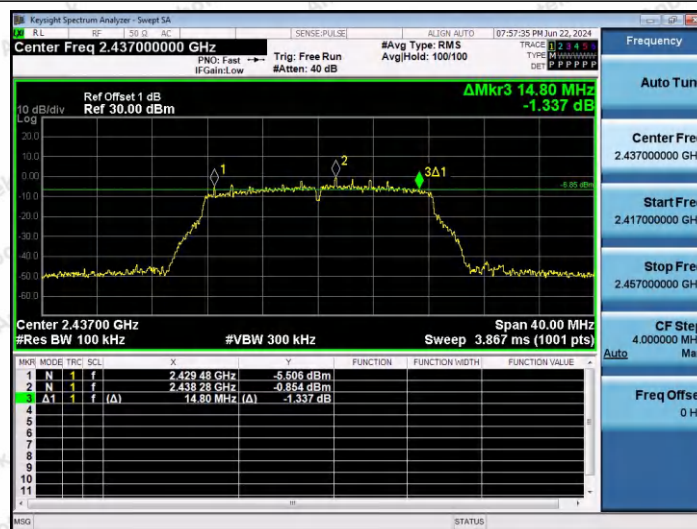


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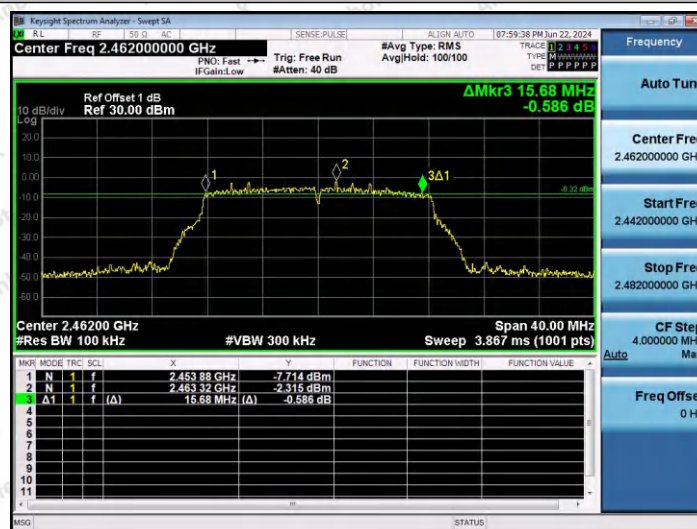




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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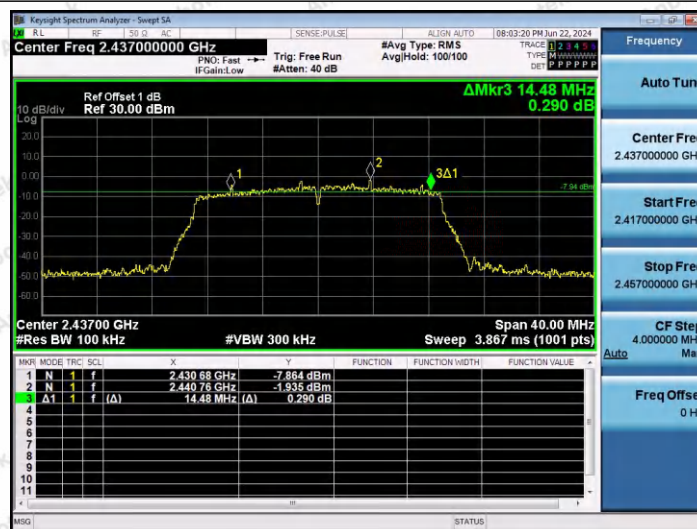


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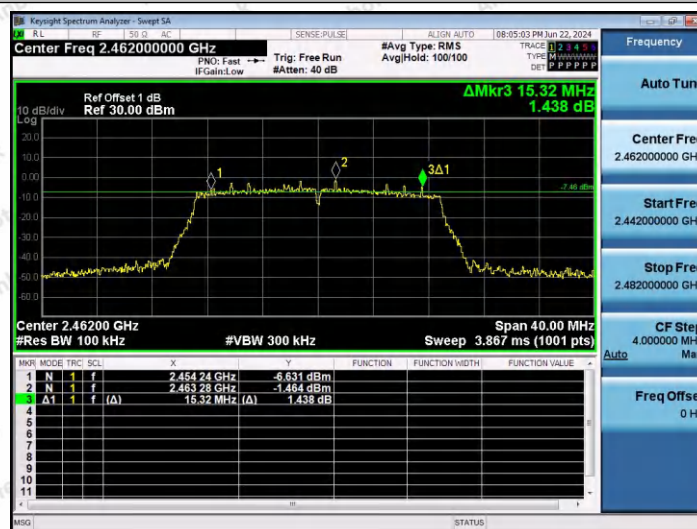




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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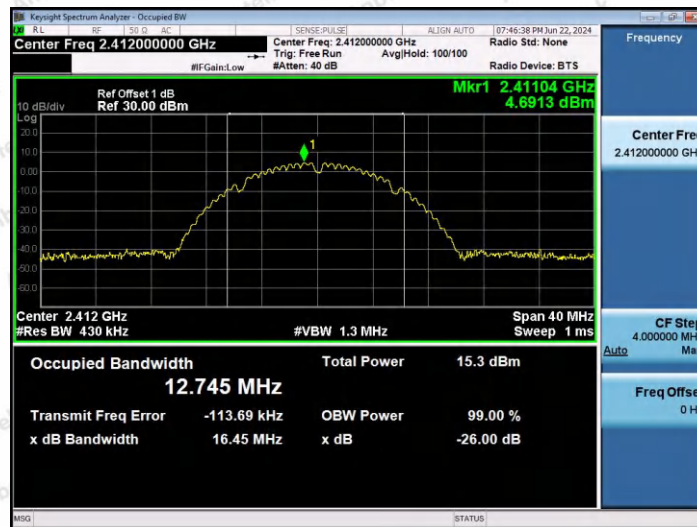
Appendix B: 99% Occupied Bandwidth

Test Result

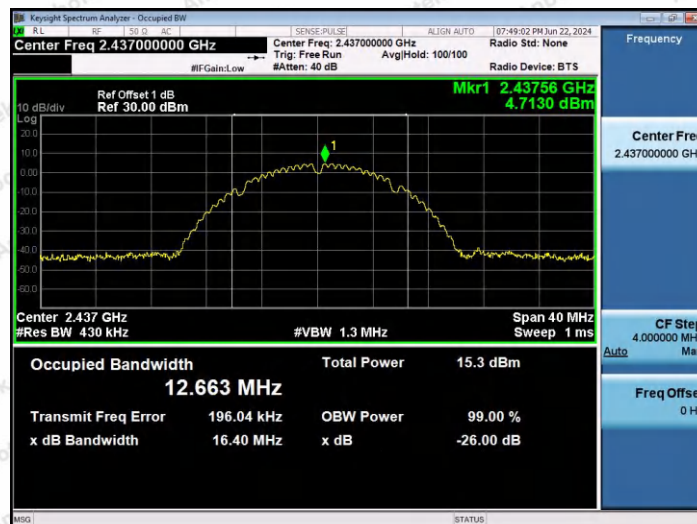
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.745	2405.5138	2418.2588	---	---
11B	Ant1	2437	12.663	2430.8645	2443.5275	---	---
11B	Ant1	2462	12.885	2455.5258	2468.4108	---	---
11G	Ant1	2412	16.822	2403.5285	2420.3505	---	---
11G	Ant1	2437	16.743	2428.7553	2445.4983	---	---
11G	Ant1	2462	16.939	2453.5337	2470.4727	---	---
11N20SISO	Ant1	2412	17.836	2403.0416	2420.8776	---	---
11N20SISO	Ant1	2437	17.799	2428.2109	2446.0099	---	---
11N20SISO	Ant1	2462	17.846	2453.1109	2470.9569	---	---



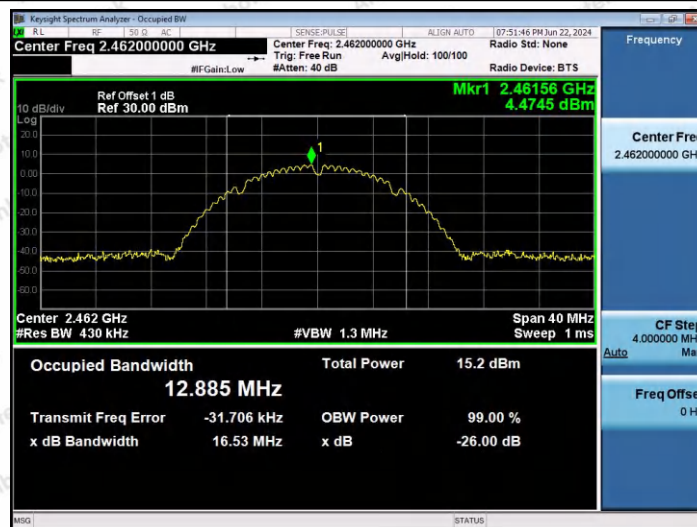
Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

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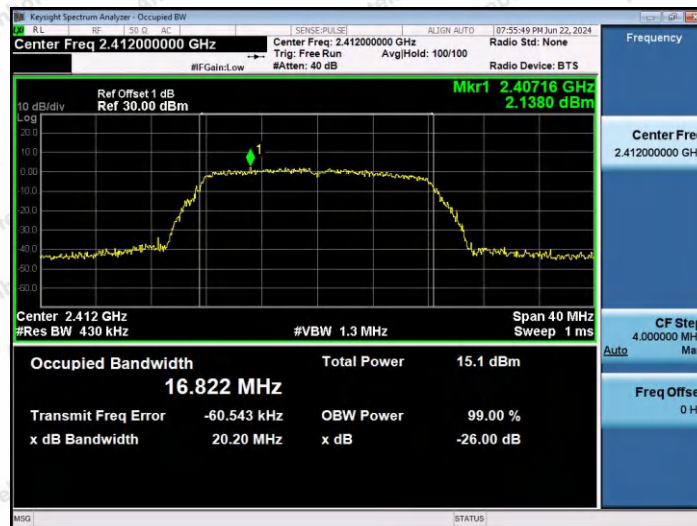


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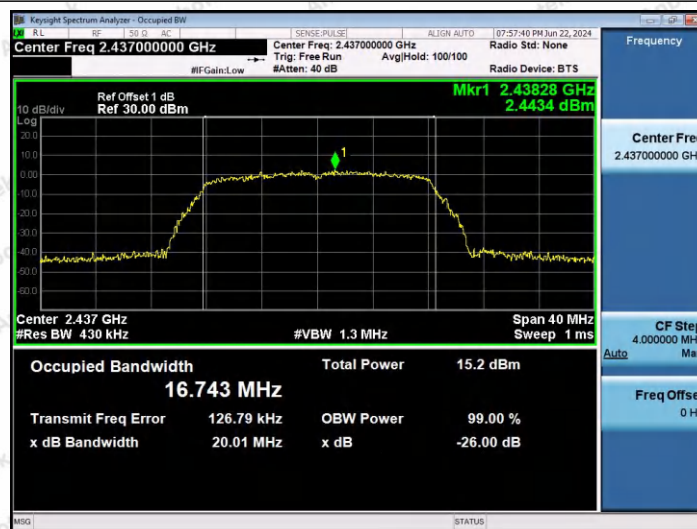
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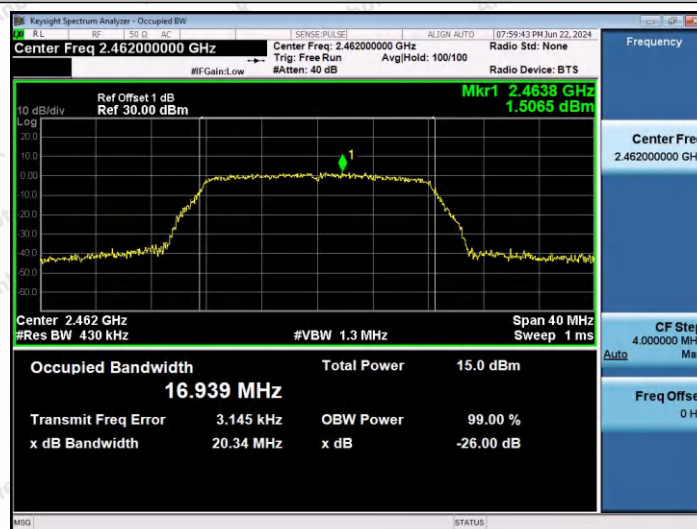




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

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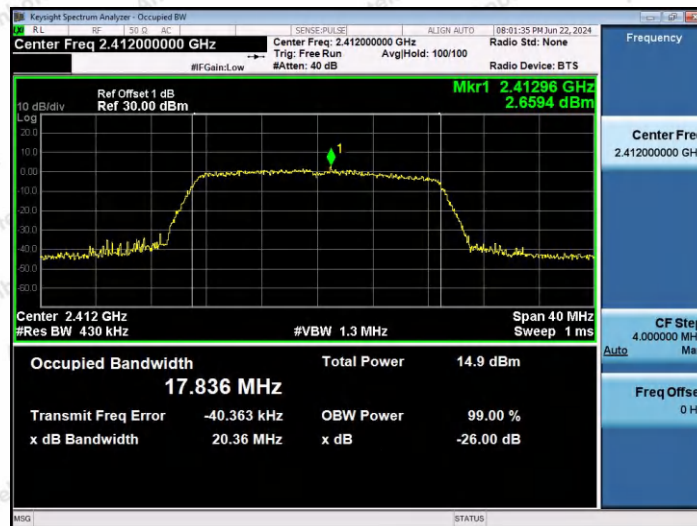


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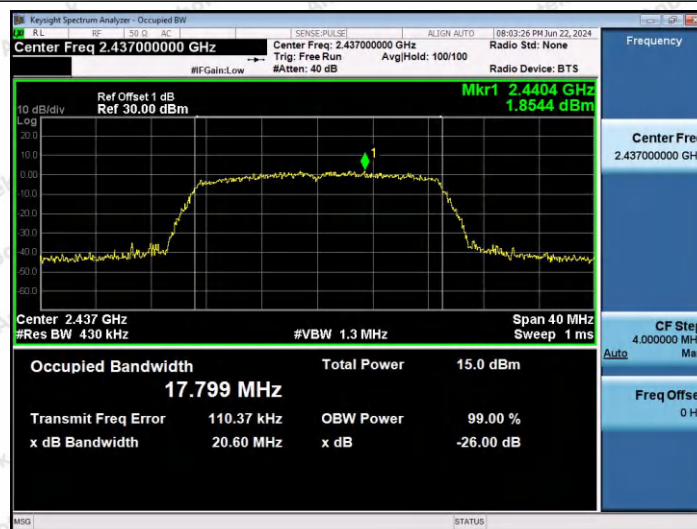
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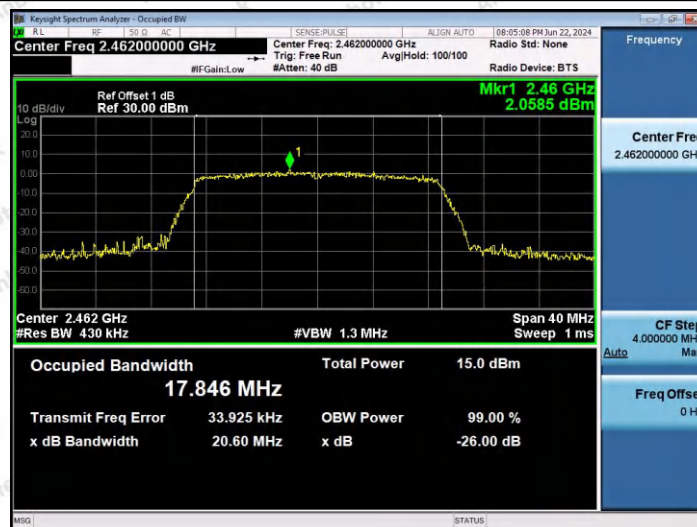




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

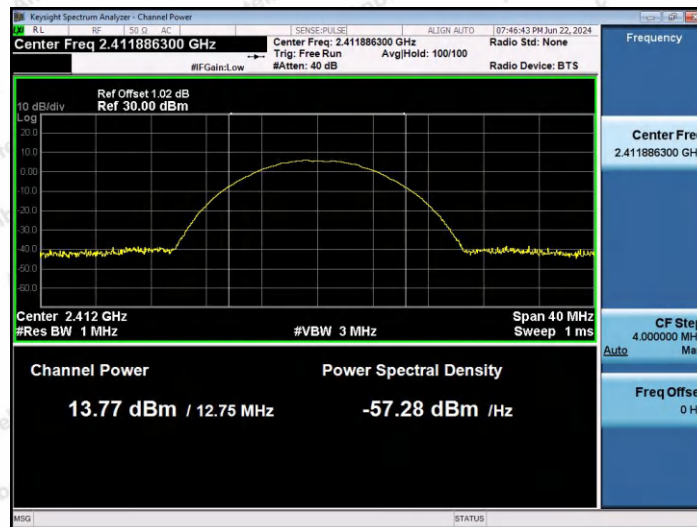
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Power Limit [dBm]	Verdict
11B	Ant1	2412	13.75	99.52	0.02	13.77	≤30.00	PASS
11B	Ant1	2437	13.68	99.52	0.02	13.70	≤30.00	PASS
11B	Ant1	2462	13.64	99.52	0.02	13.66	≤30.00	PASS
11G	Ant1	2412	13.51	96.53	0.15	13.66	≤30.00	PASS
11G	Ant1	2437	13.57	96.53	0.15	13.72	≤30.00	PASS
11G	Ant1	2462	13.25	96.53	0.15	13.40	≤30.00	PASS
11N20SISO	Ant1	2412	13.38	96.27	0.17	13.55	≤30.00	PASS
11N20SISO	Ant1	2437	13.38	96.24	0.17	13.55	≤30.00	PASS
11N20SISO	Ant1	2462	13.24	96.99	0.13	13.37	≤30.00	PASS

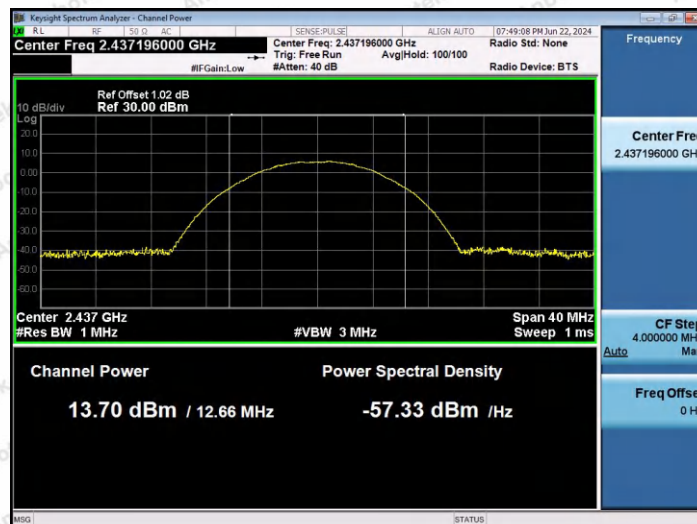
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



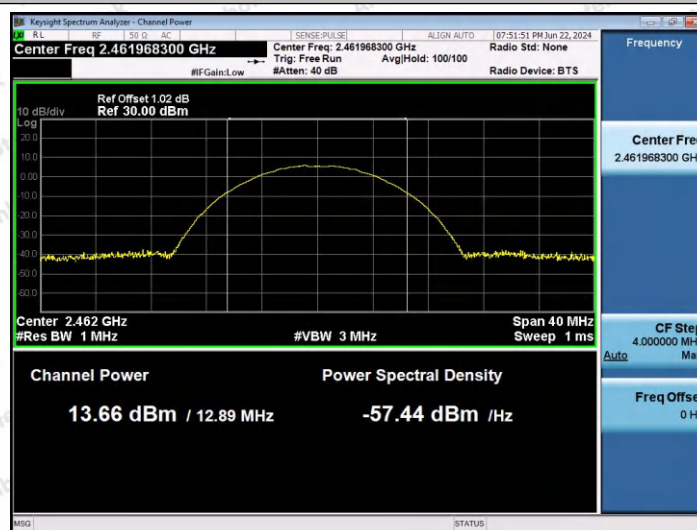
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

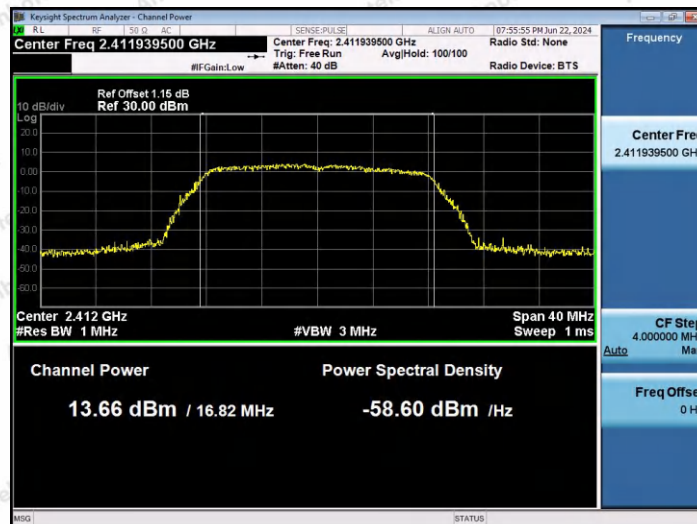
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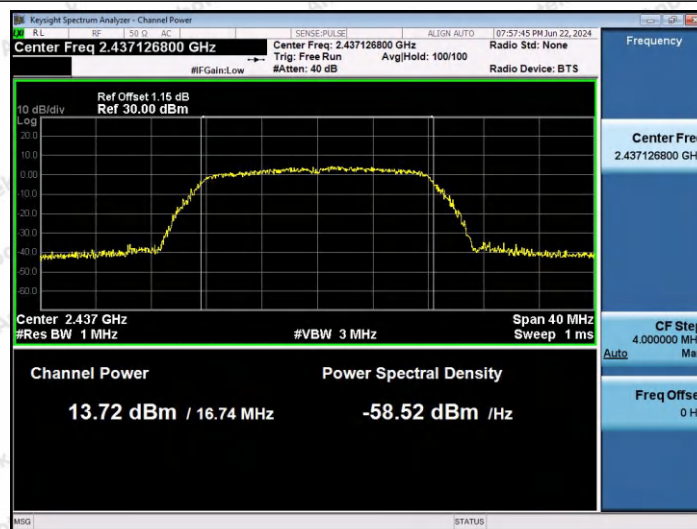


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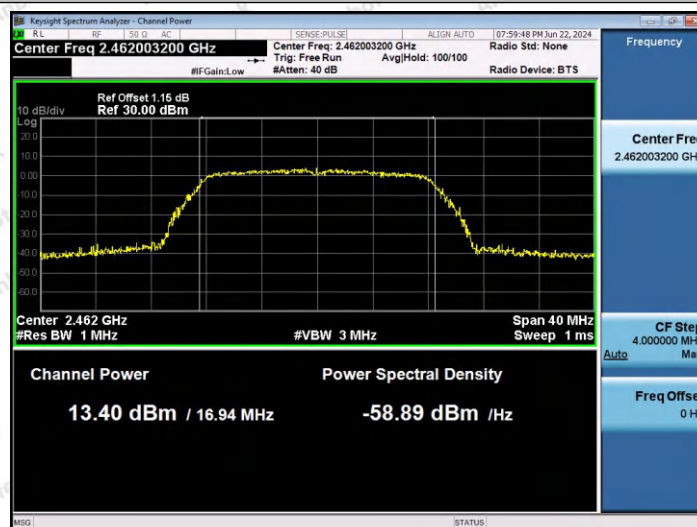




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

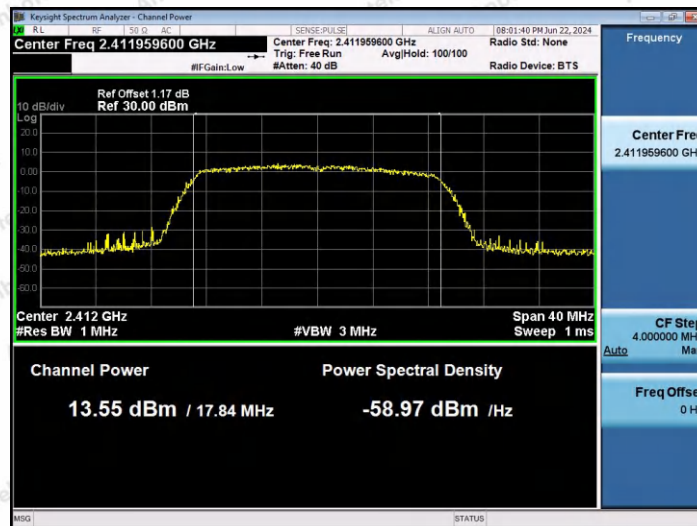
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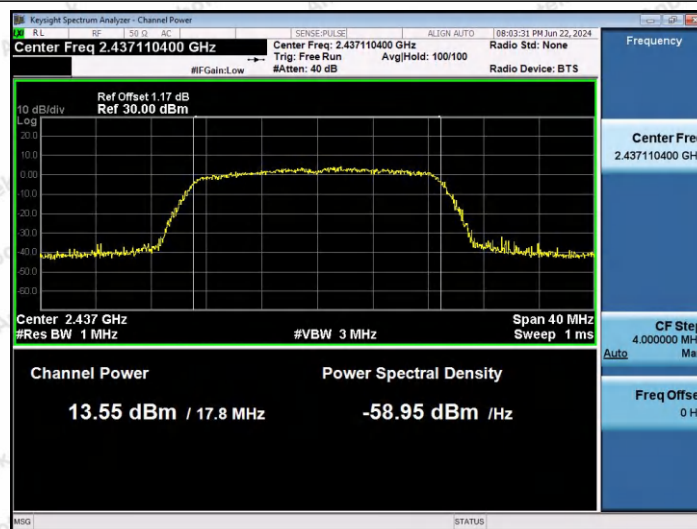


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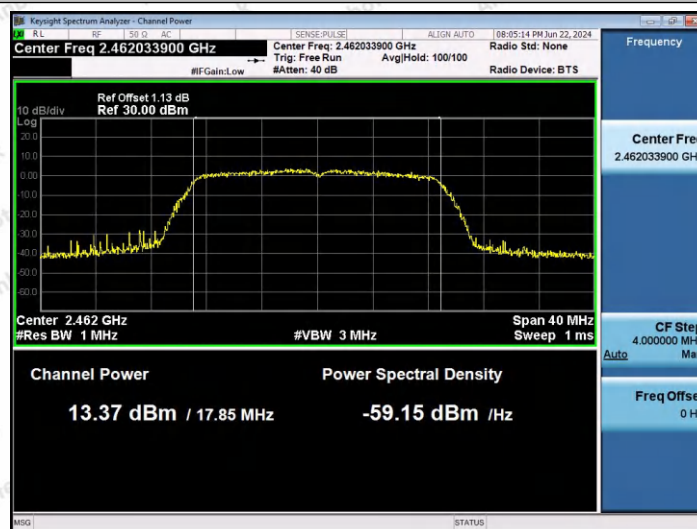




11N20SISO-Ant1-2412-PASS



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	-8.79	-18.79	≤8.00	PASS
11B	Ant1	2437	-9.06	-19.06	≤8.00	PASS
11B	Ant1	2462	-8.77	-18.77	≤8.00	PASS
11G	Ant1	2412	-14.14	-24.14	≤8.00	PASS
11G	Ant1	2437	-14.00	-24.00	≤8.00	PASS
11G	Ant1	2462	-14.88	-24.88	≤8.00	PASS
11N20SIS O	Ant1	2412	-14.86	-24.86	≤8.00	PASS
11N20SIS O	Ant1	2437	-14.40	-24.40	≤8.00	PASS
11N20SIS O	Ant1	2462	-14.62	-24.62	≤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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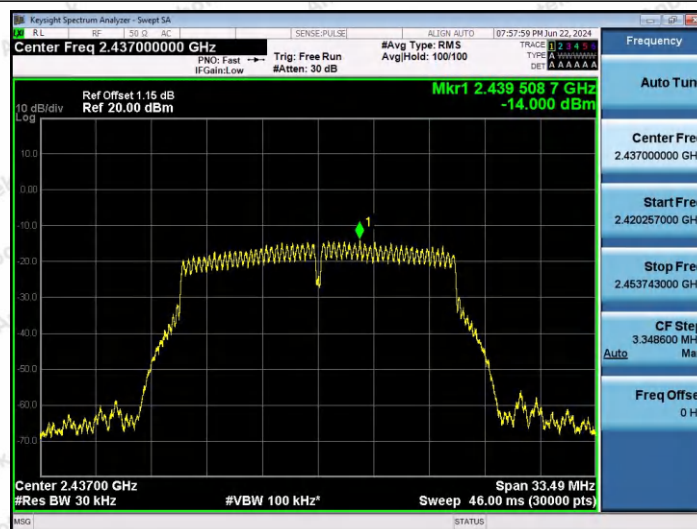
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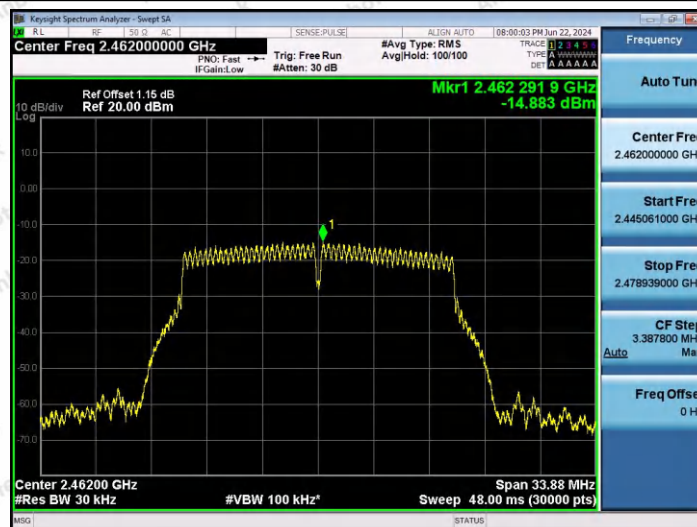




11G-Ant1-2412-PASS

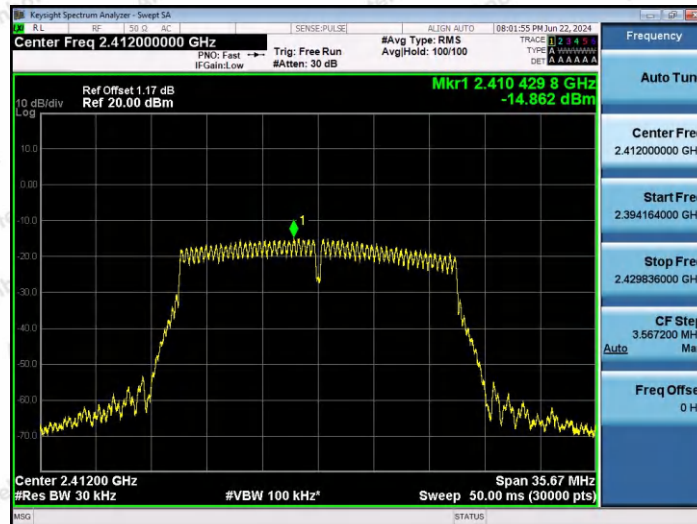


11G-Ant1-2437-PASS

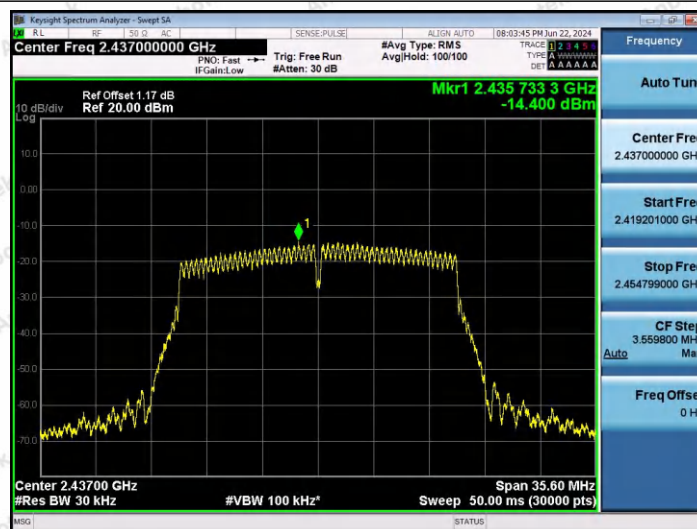


11G-Ant1-2462-PASS

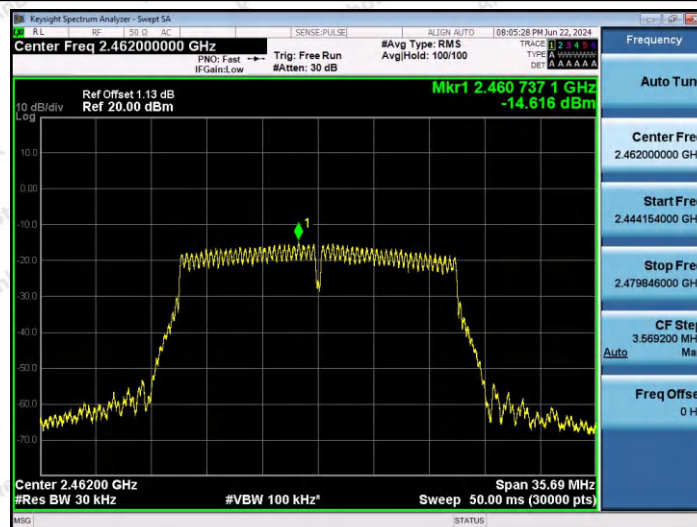




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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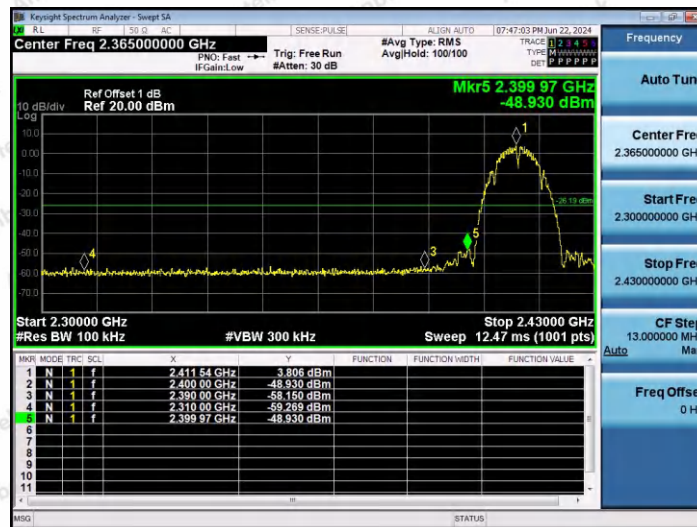
Appendix E: Conducted Band edge

Test Result

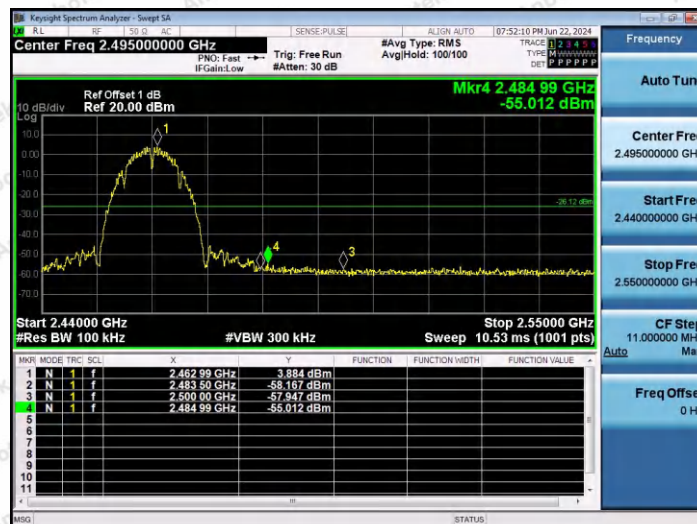
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.81	-48.93	≤-26.19	PASS
11B	Ant1	High	2462	3.88	-55.01	≤-26.12	PASS
11G	Ant1	Low	2412	-1.67	-44.19	≤-31.67	PASS
11G	Ant1	High	2462	-2.02	-53.57	≤-32.02	PASS
11N20SISO	Ant1	Low	2412	-1.28	-44.38	≤-31.28	PASS
11N20SISO	Ant1	High	2462	-1.59	-53.84	≤-31.59	PASS



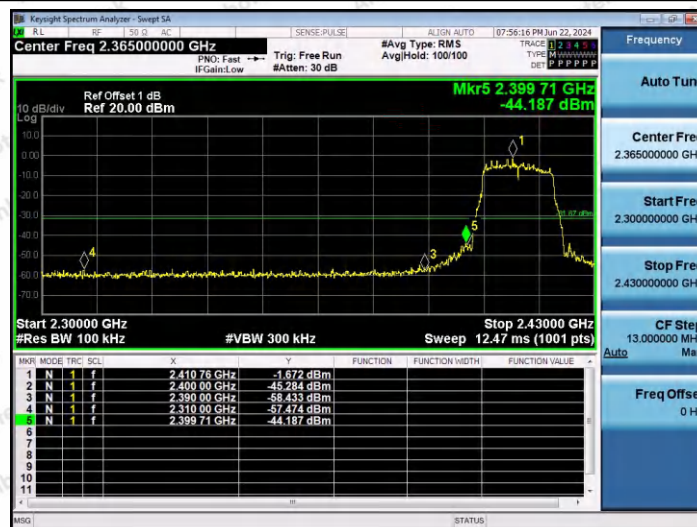
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

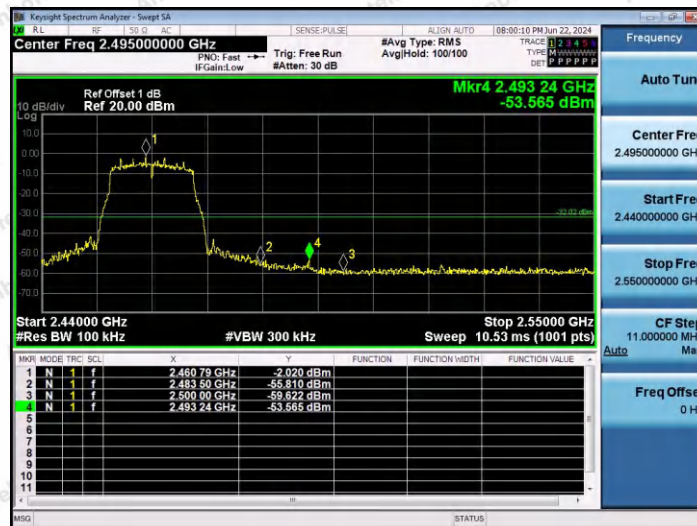
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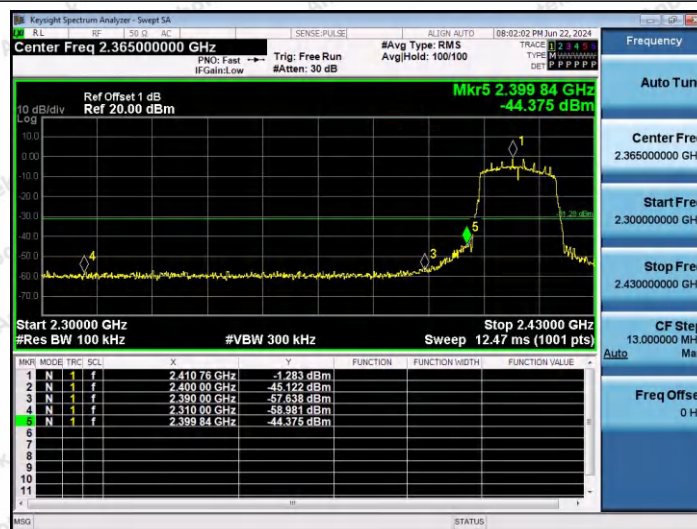


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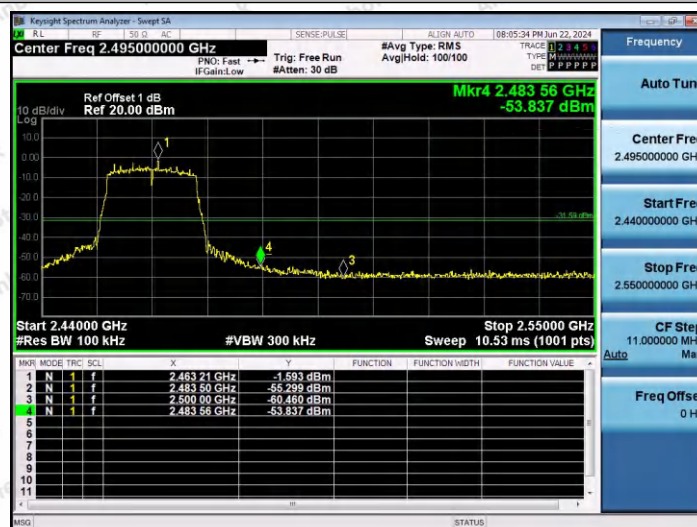




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

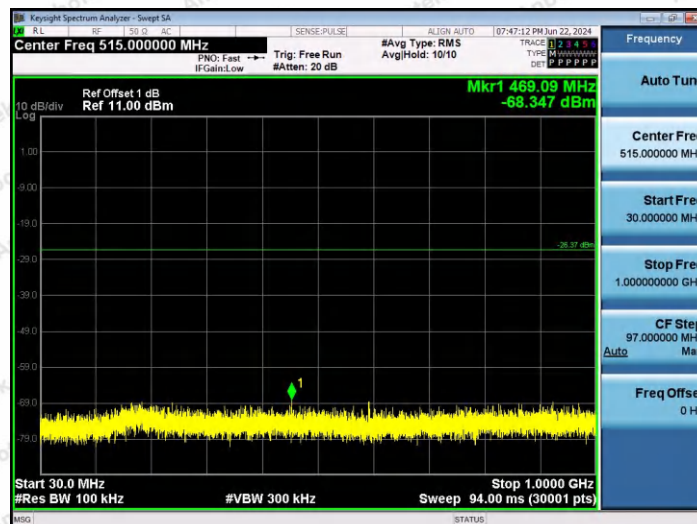
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.63	3.63	---	PASS
11B	Ant1	2412	30~1000	3.63	-68.35	≤-26.37	PASS
11B	Ant1	2412	1000~26500	3.63	-53.58	≤-26.37	PASS
11B	Ant1	2437	0~Reference	2.83	2.83	---	PASS
11B	Ant1	2437	30~1000	2.83	-68.1	≤-27.17	PASS
11B	Ant1	2437	1000~26500	2.83	-53.31	≤-27.17	PASS
11B	Ant1	2462	0~Reference	4.52	4.52	---	PASS
11B	Ant1	2462	30~1000	4.52	-67.7	≤-25.48	PASS
11B	Ant1	2462	1000~26500	4.52	-53.22	≤-25.48	PASS
11G	Ant1	2412	0~Reference	-4.63	-4.63	---	PASS
11G	Ant1	2412	30~1000	-4.63	-68.54	≤-34.63	PASS
11G	Ant1	2412	1000~26500	-4.63	-53.43	≤-34.63	PASS
11G	Ant1	2437	0~Reference	-4.66	-4.66	---	PASS
11G	Ant1	2437	30~1000	-4.66	-67.77	≤-34.66	PASS
11G	Ant1	2437	1000~26500	-4.66	-53.19	≤-34.66	PASS
11G	Ant1	2462	0~Reference	-4.74	-4.74	---	PASS
11G	Ant1	2462	30~1000	-4.74	-67.11	≤-34.74	PASS
11G	Ant1	2462	1000~26500	-4.74	-53.77	≤-34.74	PASS
11N20SISO	Ant1	2412	0~Reference	-2.53	-2.53	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.53	-67.64	≤-32.53	PASS
11N20SISO	Ant1	2412	1000~26500	-2.53	-53.59	≤-32.53	PASS
11N20SISO	Ant1	2437	0~Reference	-5.07	-5.07	---	PASS
11N20SISO	Ant1	2437	30~1000	-5.07	-68.39	≤-35.07	PASS
11N20SISO	Ant1	2437	1000~26500	-5.07	-52.17	≤-35.07	PASS
11N20SISO	Ant1	2462	0~Reference	-4.45	-4.45	---	PASS
11N20SISO	Ant1	2462	30~1000	-4.45	-68.56	≤-34.45	PASS
11N20SISO	Ant1	2462	1000~26500	-4.45	-53.24	≤-34.45	PASS



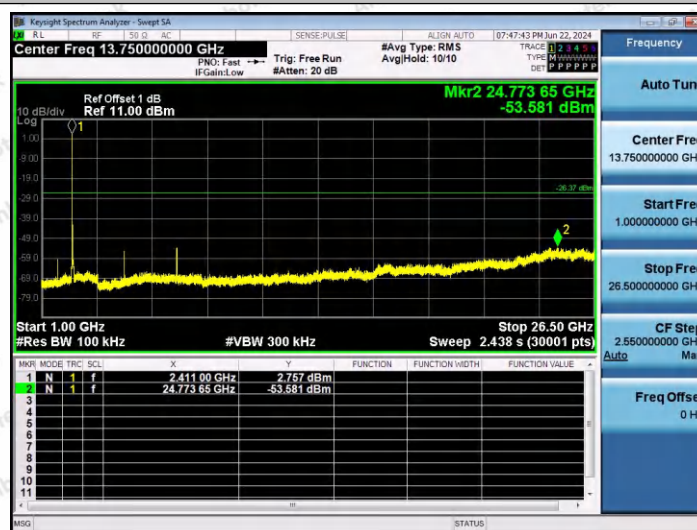
Test Graphs



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



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



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

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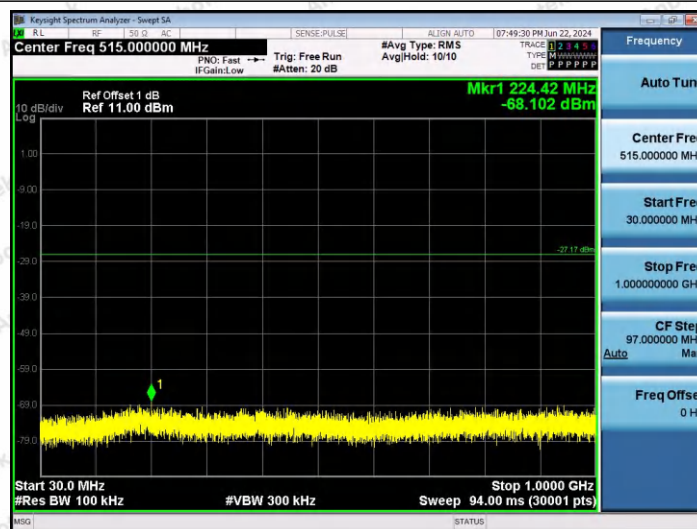


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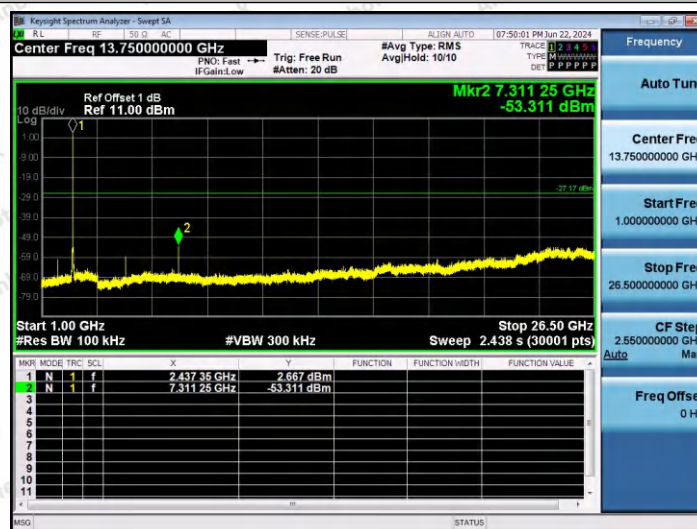




11B-Ant1-2437-0~Reference-PASS



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



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

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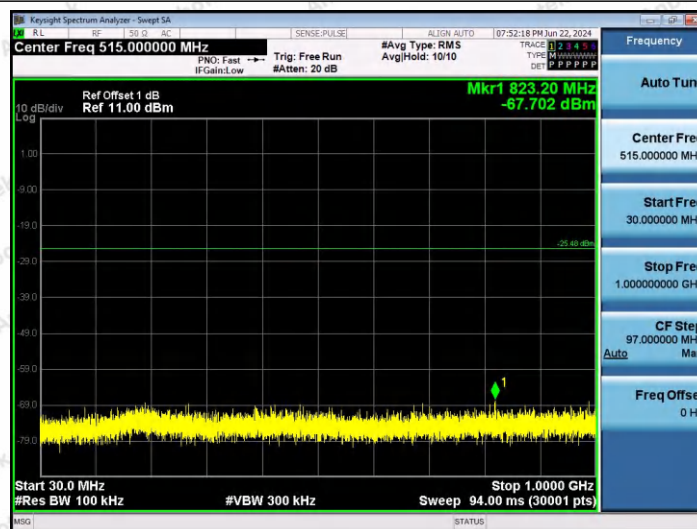


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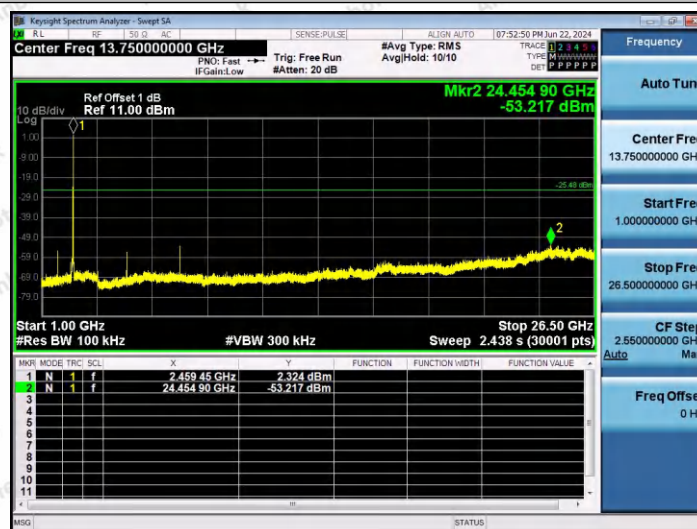




11B-Ant1-2462-0~Reference-PASS



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



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

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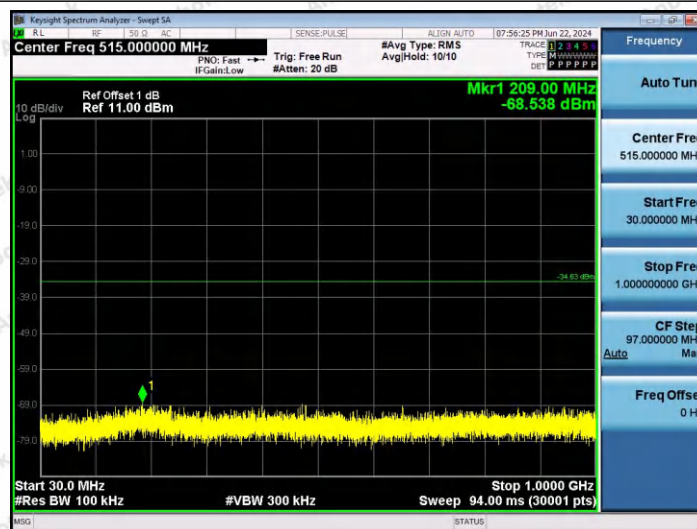


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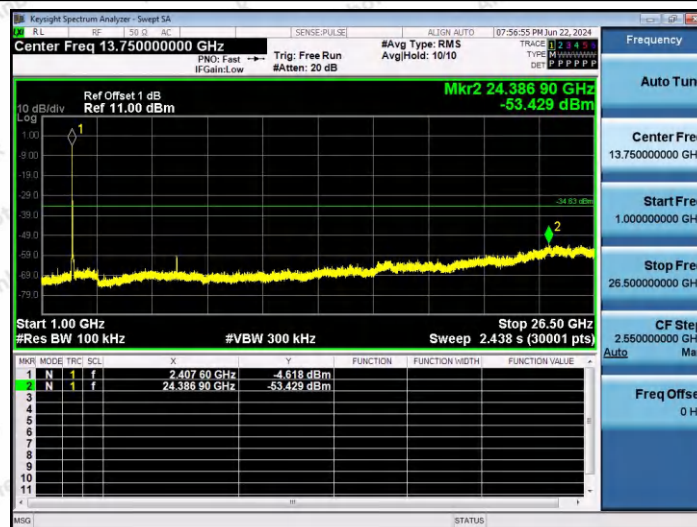




11G-Ant1-2412-0~Reference-PASS



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



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

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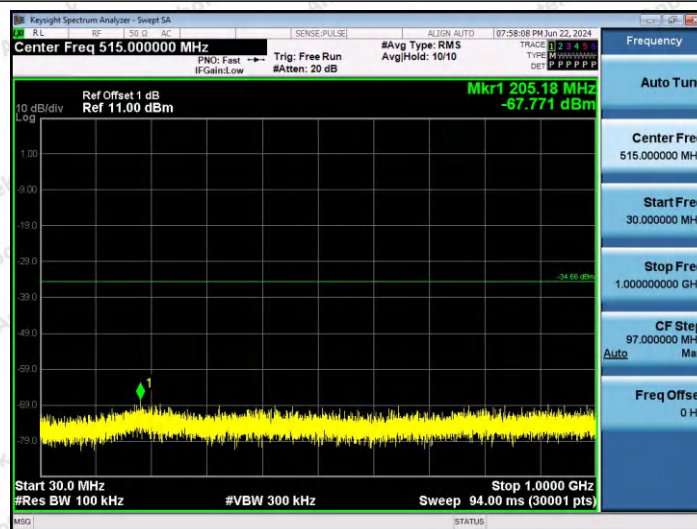


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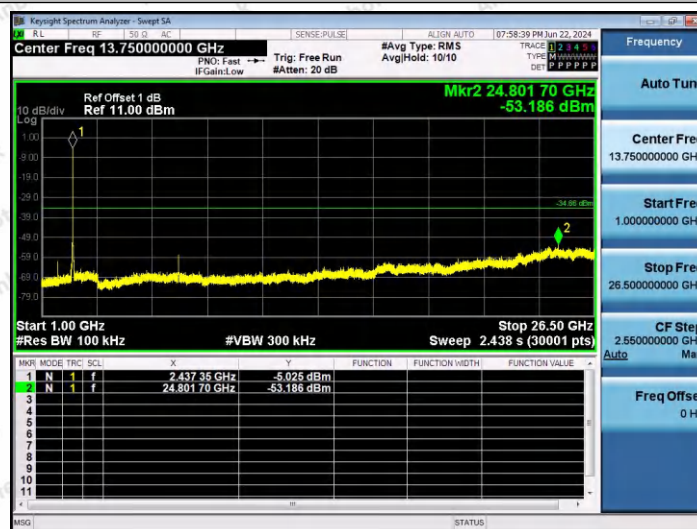




11G-Ant1-2437-0~Reference-PASS



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



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

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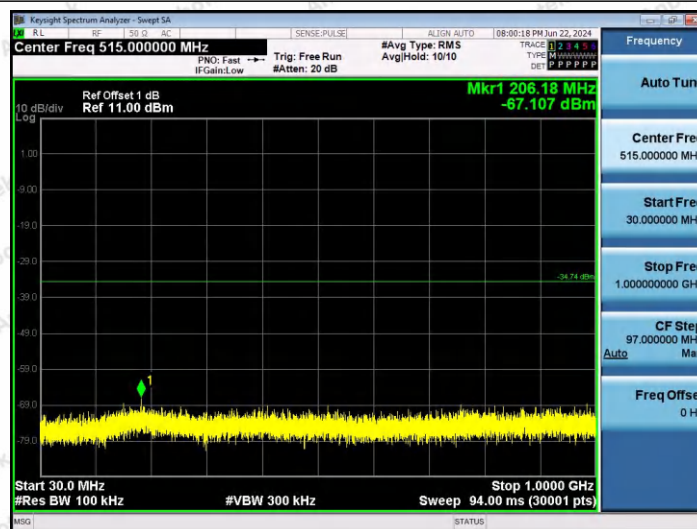


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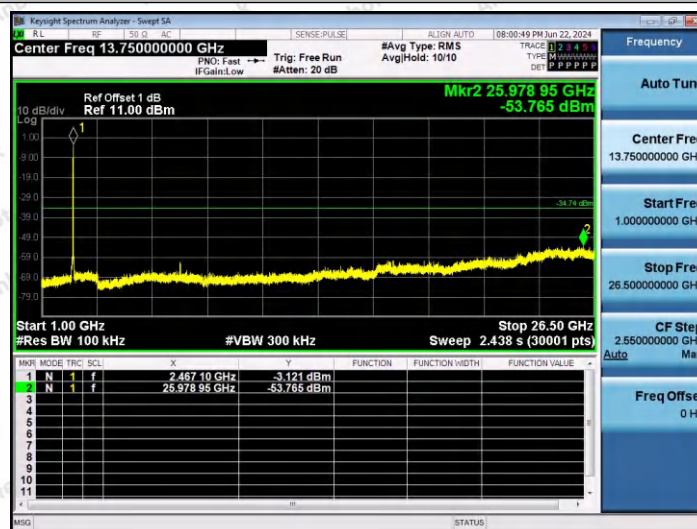




11G-Ant1-2462-0~Reference-PASS



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



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

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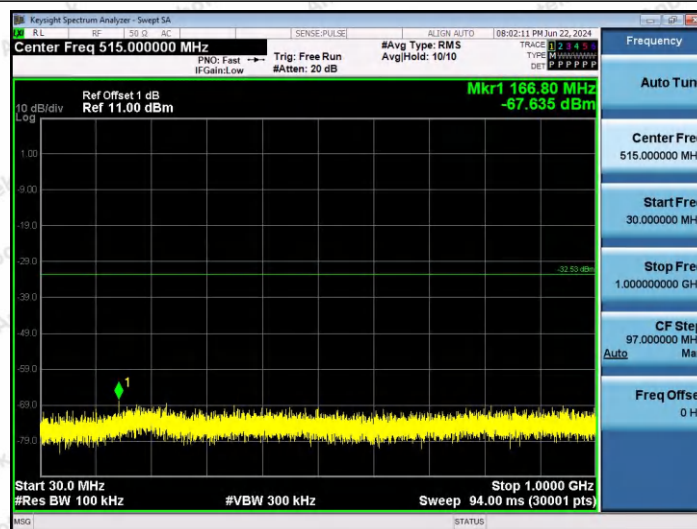


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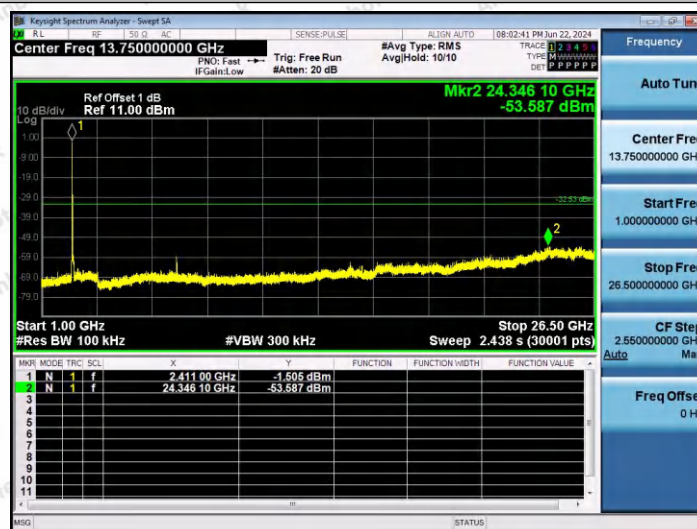




11N20SISO-Ant1-2412-0~Reference-PASS



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



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

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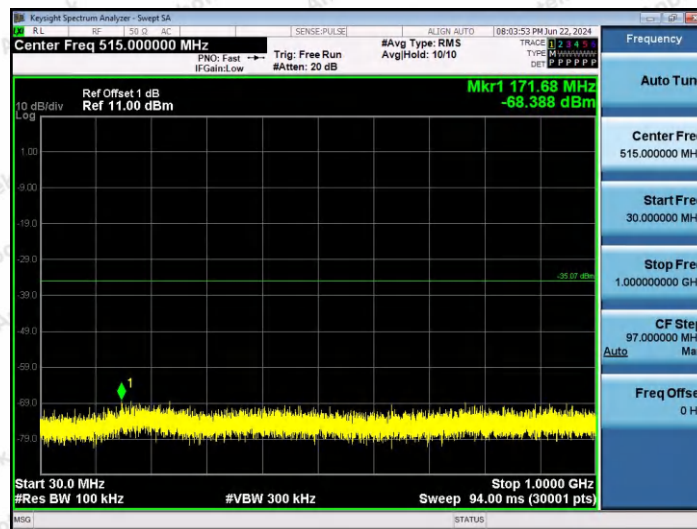


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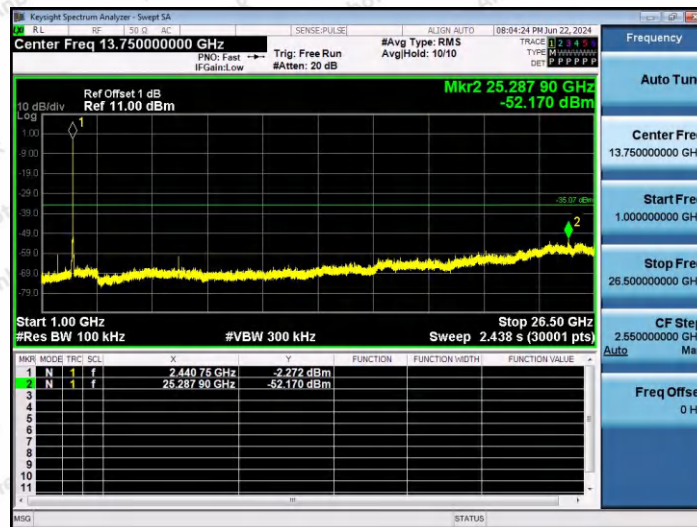




11N20SISO-Ant1-2437-0~Reference-PASS



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



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

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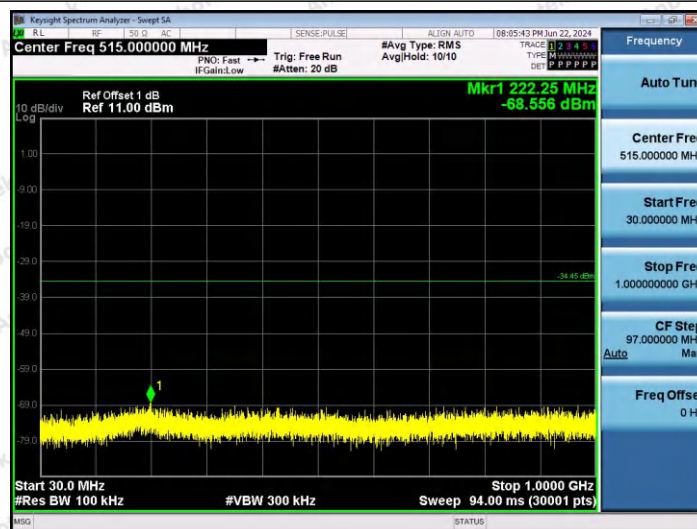


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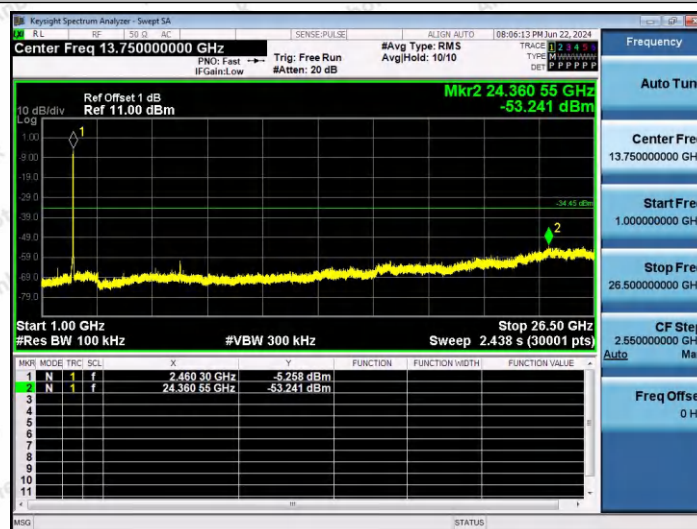




11N20SISO-Ant1-2462-0~Reference-PASS



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



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

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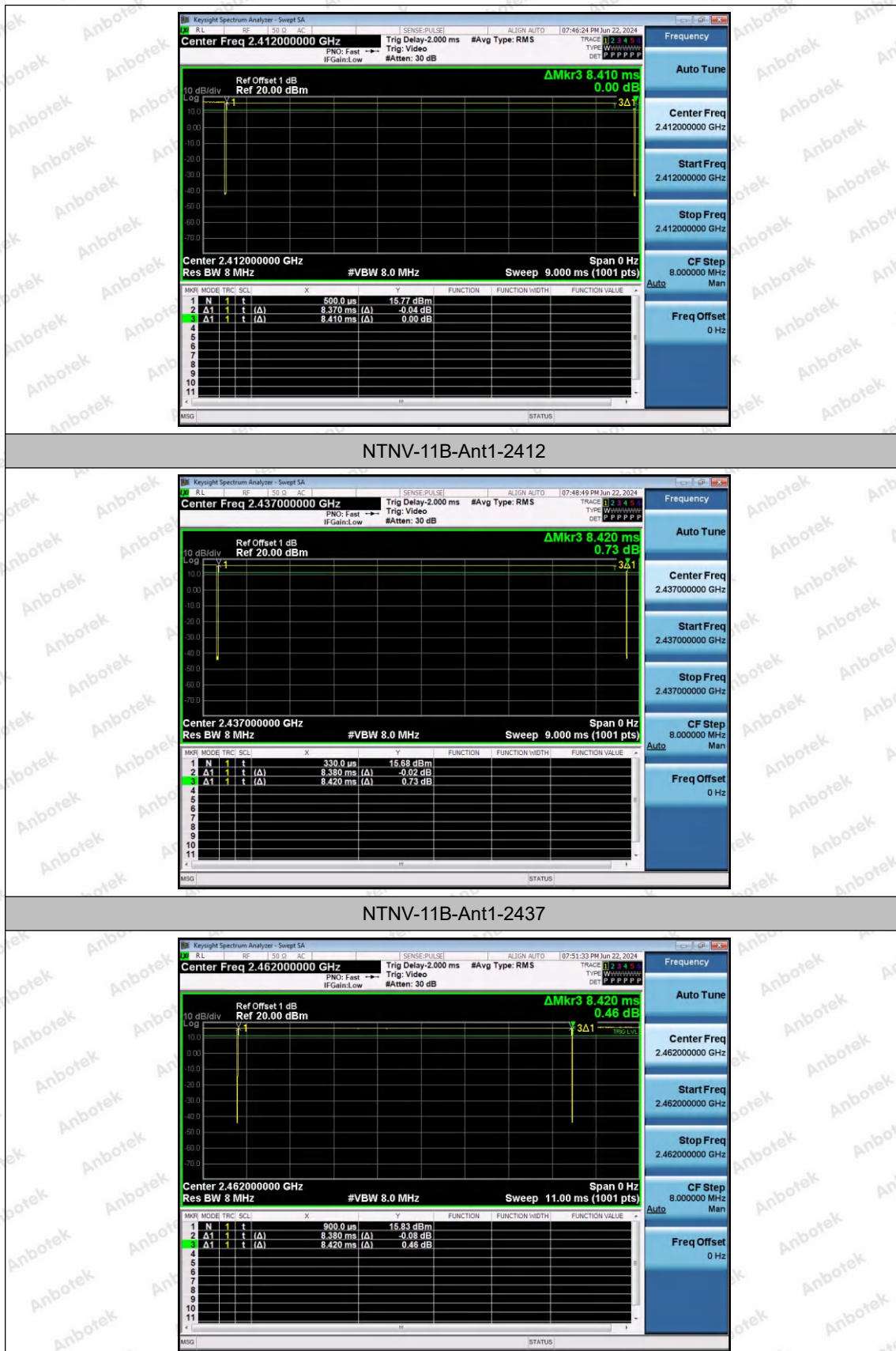
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor[dB]
11B	Ant1	2412	8.37	8.41	99.52	0.02
11B	Ant1	2437	8.38	8.42	99.52	0.02
11B	Ant1	2462	8.38	8.42	99.52	0.02
11G	Ant1	2412	1.39	1.44	96.53	0.15
11G	Ant1	2437	1.39	1.44	96.53	0.15
11G	Ant1	2462	1.39	1.44	96.53	0.15
11N20SISO	Ant1	2412	1.29	1.34	96.27	0.17
11N20SISO	Ant1	2437	1.28	1.33	96.24	0.17
11N20SISO	Ant1	2462	1.29	1.33	96.99	0.13



Test Graphs



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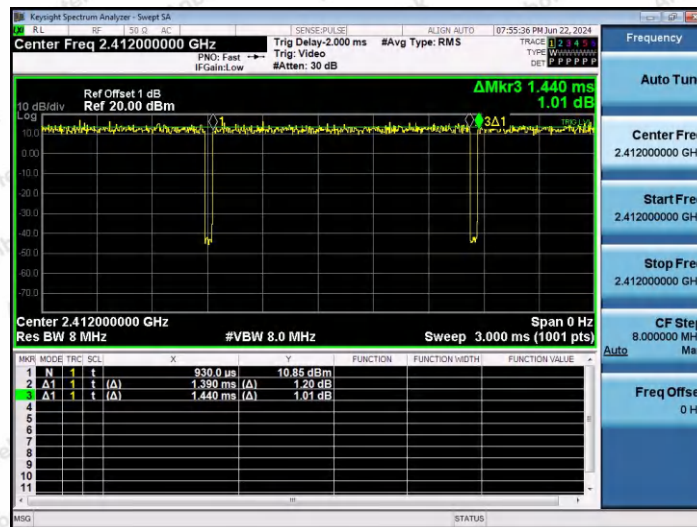
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



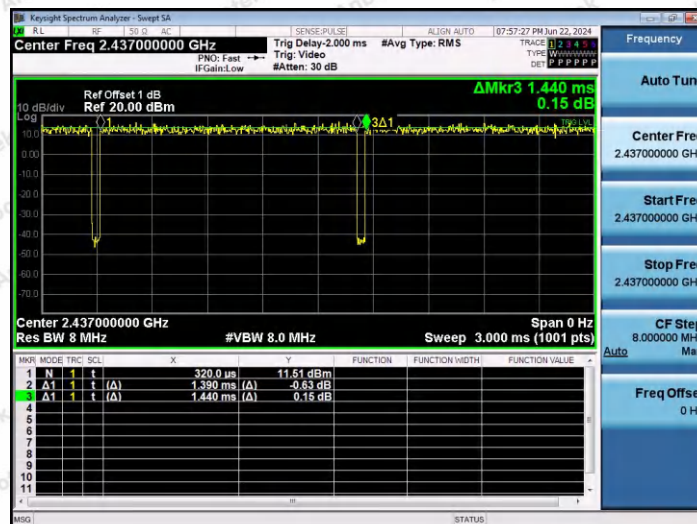
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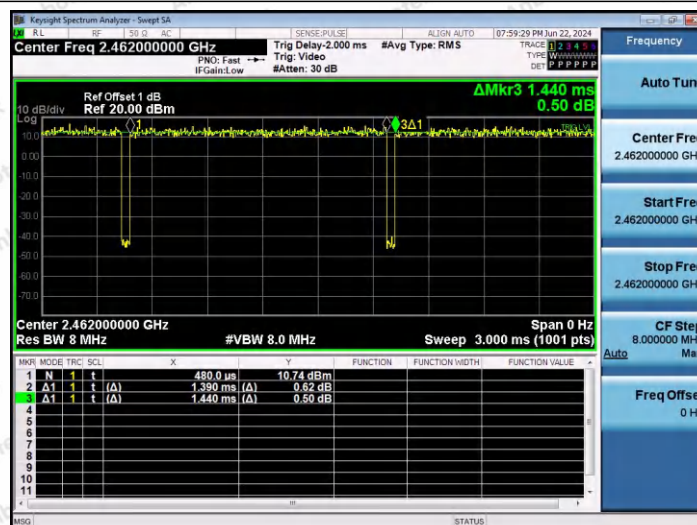
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

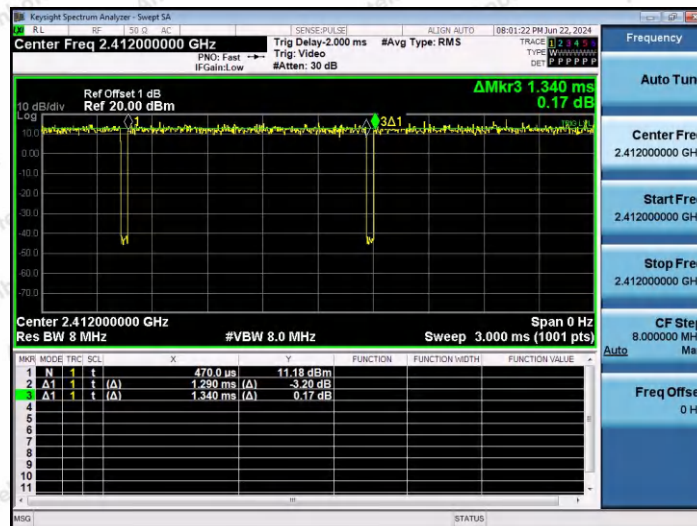
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

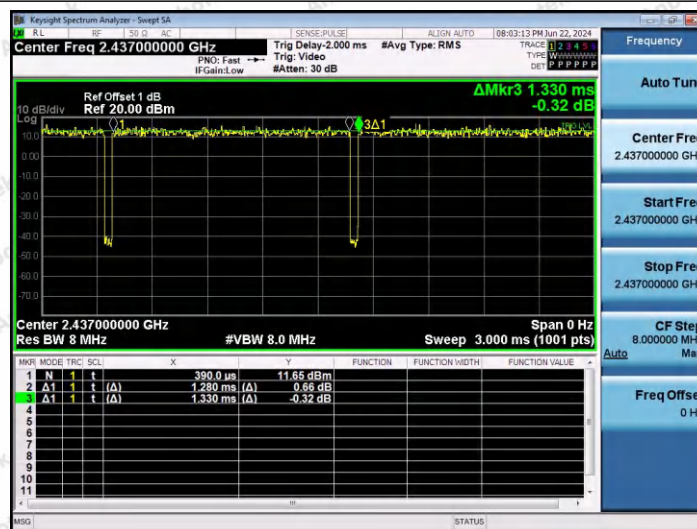


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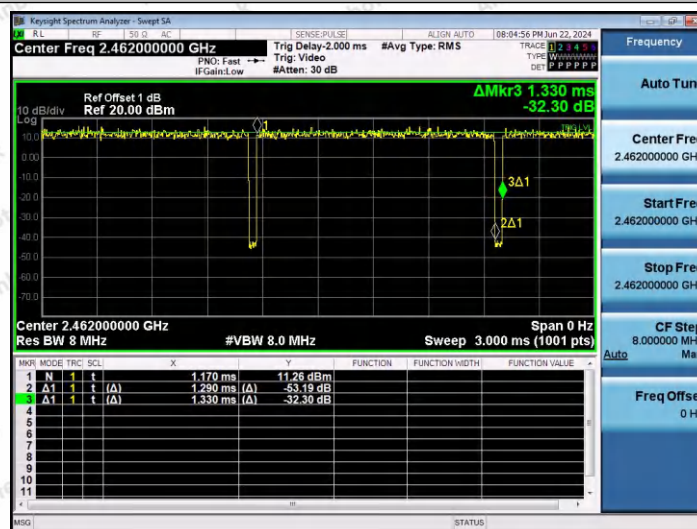




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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