

Appendix Test Data

Report No.:	18220WC40069801	Test Sample No.:	1-2-2
Start Test Date:	2024.04.10	Finish Test Date:	2024.04.16
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.3°C	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
11B	Ant1	2437	8.520	2432.520	2441.040	0.5	PASS
11B	Ant1	2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
11G	Ant1	2437	16.080	2428.800	2444.880	0.5	PASS
11G	Ant1	2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
11N20SISO	Ant1	2437	16.320	2428.200	2444.520	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.240	2470.840	0.5	PASS



Test Graphs



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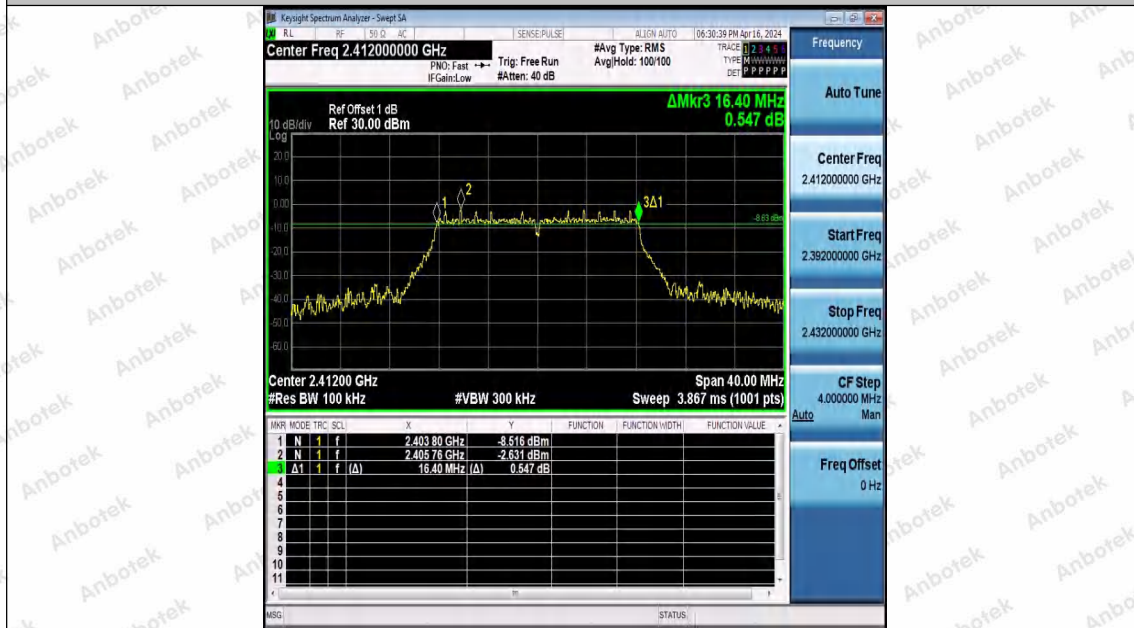


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11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



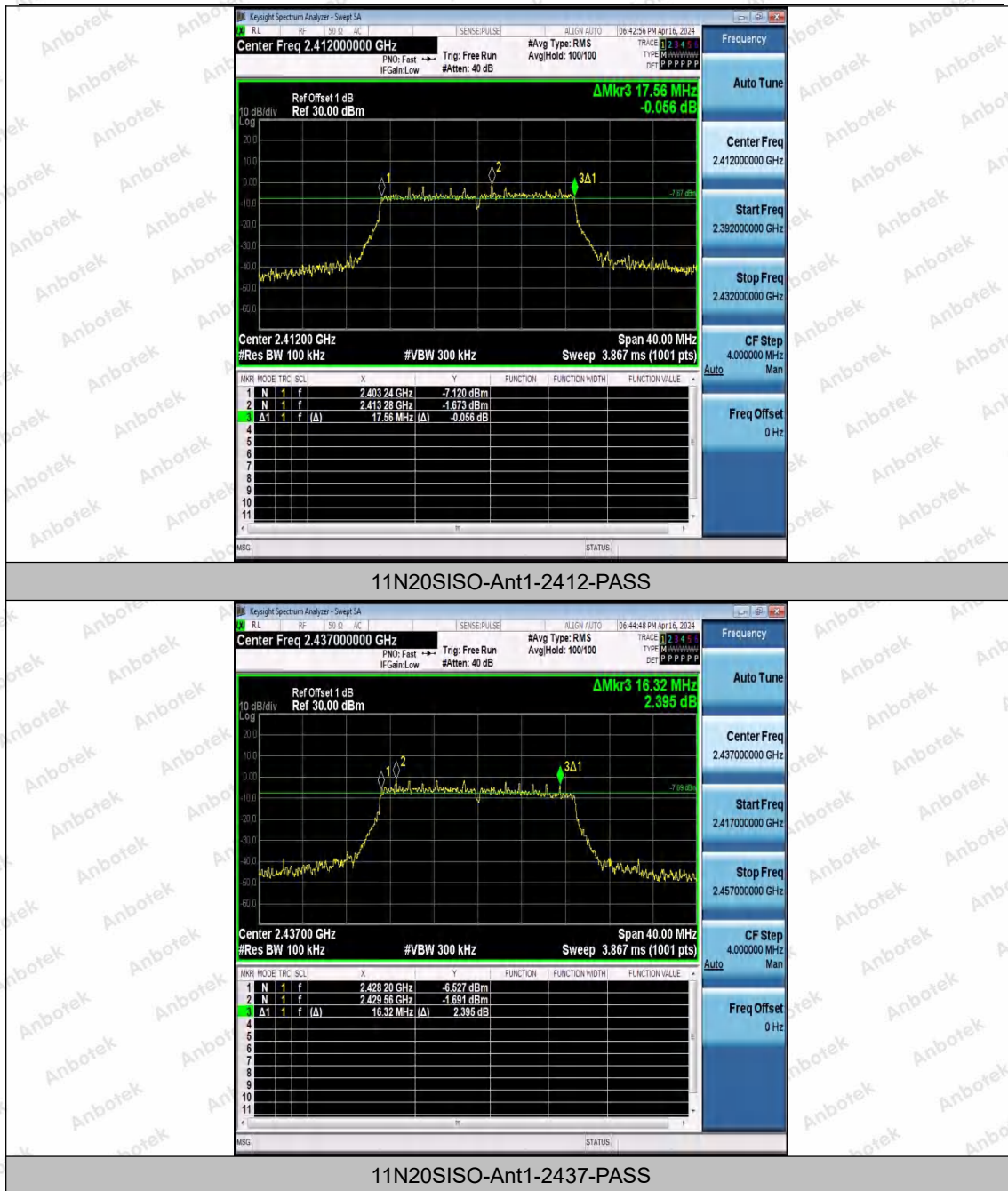
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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.917	2406.0820	2417.9990	---	---
11B	Ant1	2437	11.758	2430.9856	2442.7436	---	---
11B	Ant1	2462	12.014	2456.0483	2468.0623	---	---
11G	Ant1	2412	17.394	2403.3444	2420.7384	---	---
11G	Ant1	2437	17.237	2428.2179	2445.4549	---	---
11G	Ant1	2462	17.615	2453.2633	2470.8783	---	---
11N20SISO	Ant1	2412	18.220	2402.9440	2421.1640	---	---
11N20SISO	Ant1	2437	18.000	2427.9481	2445.9481	---	---
11N20SISO	Ant1	2462	18.324	2452.9139	2471.2379	---	---



Test Graphs



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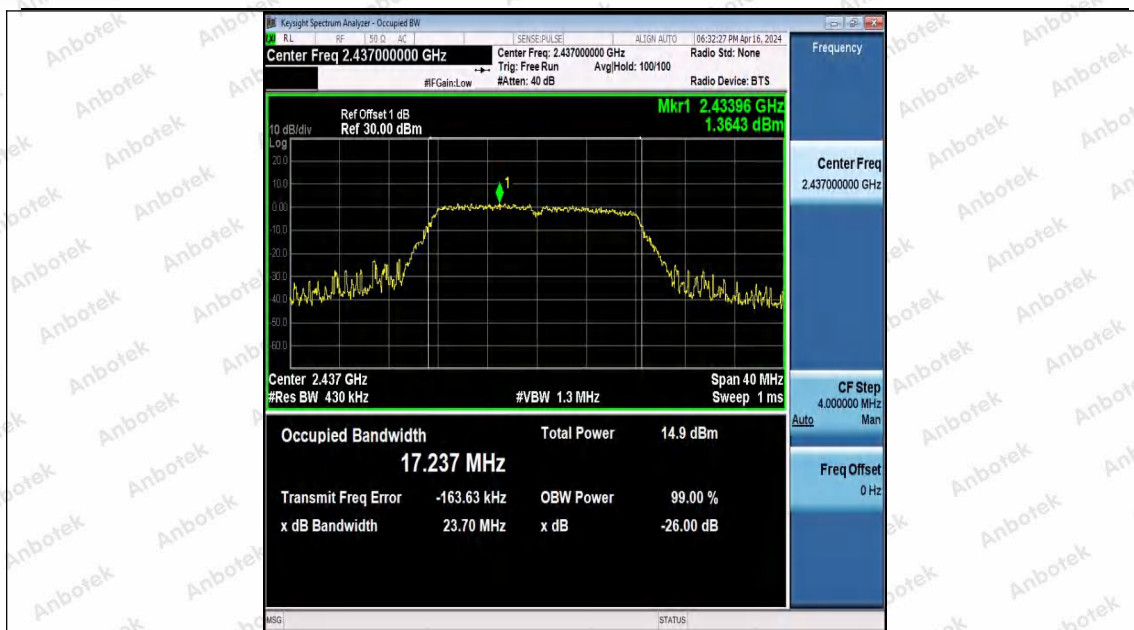
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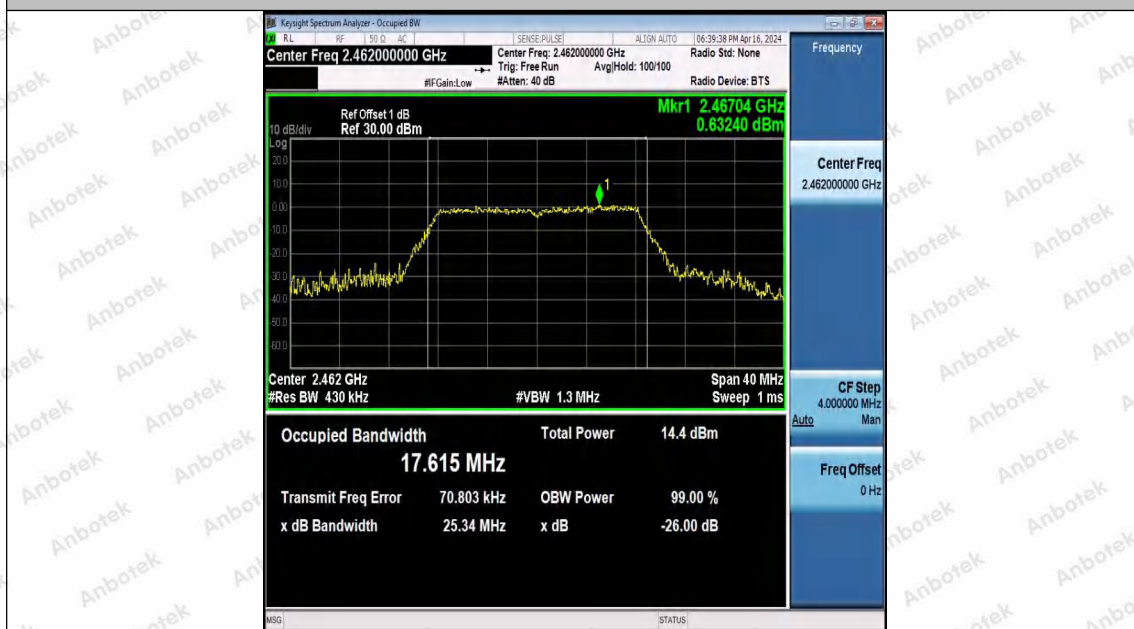


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11G-Ant1-2437



11G-Ant1-2462

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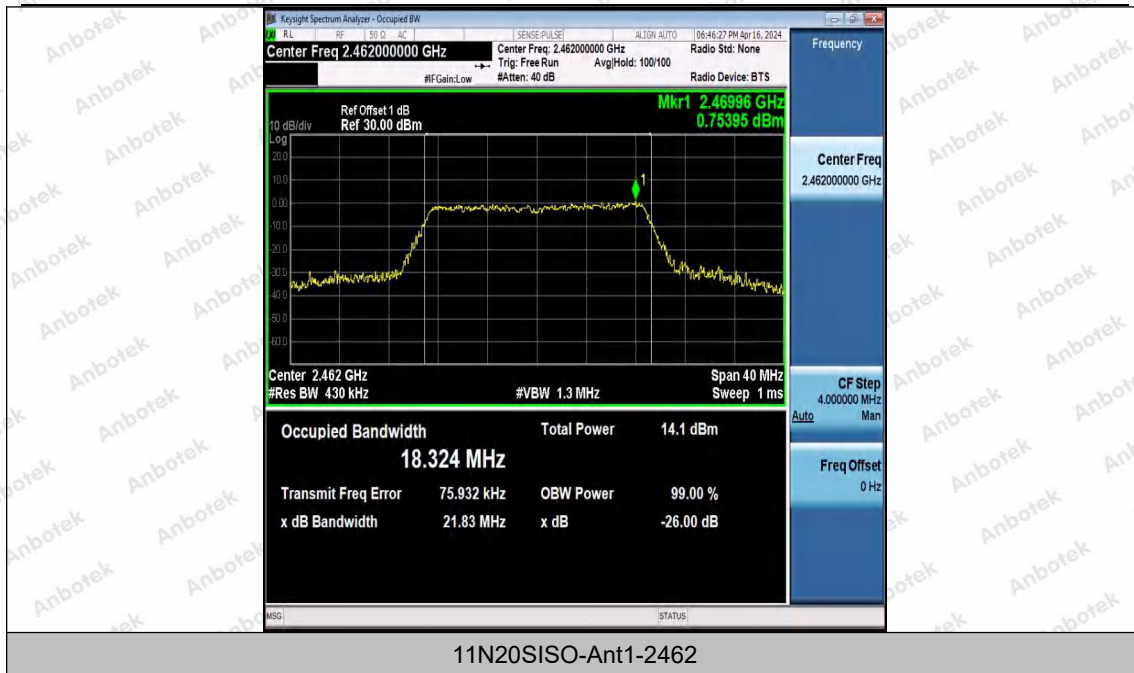
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Appendix C: Maximum conducted output power

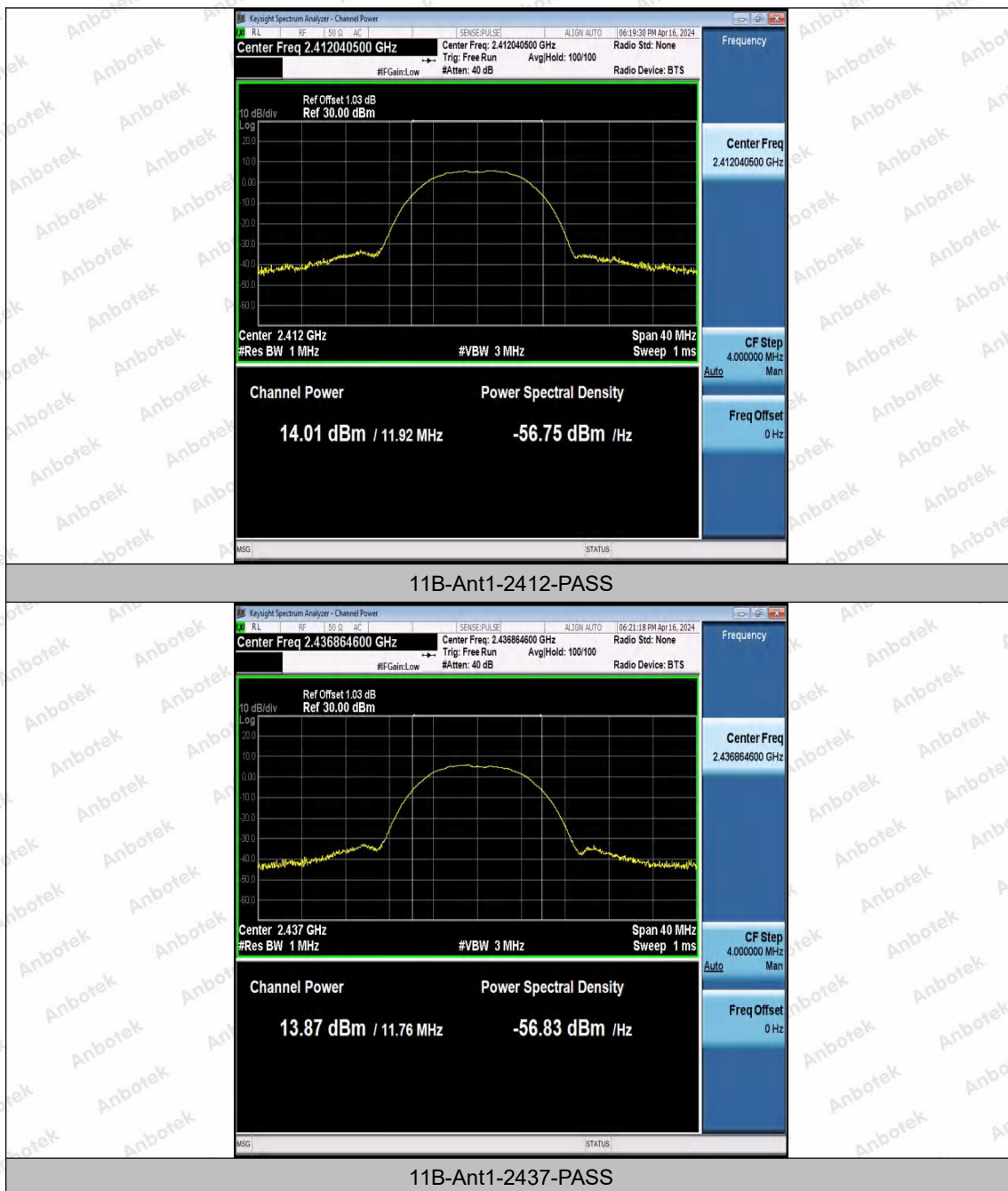
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.98	99.40	0.03	14.01	≤30.00	PASS
11B	Ant1	2437	13.84	99.21	0.03	13.87	≤30.00	PASS
11B	Ant1	2462	12.64	99.40	0.03	12.67	≤30.00	PASS
11G	Ant1	2412	13.35	94.25	0.26	13.61	≤30.00	PASS
11G	Ant1	2437	13.38	96.51	0.15	13.53	≤30.00	PASS
11G	Ant1	2462	12.92	96.51	0.15	13.07	≤30.00	PASS
11N20 SISO	Ant1	2412	14.07	95.12	0.22	14.29	≤30.00	PASS
11N20 SISO	Ant1	2437	14.09	93.98	0.27	14.36	≤30.00	PASS
11N20 SISO	Ant1	2462	12.70	95.12	0.22	12.92	≤30.00	PASS

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



Test Graphs Average



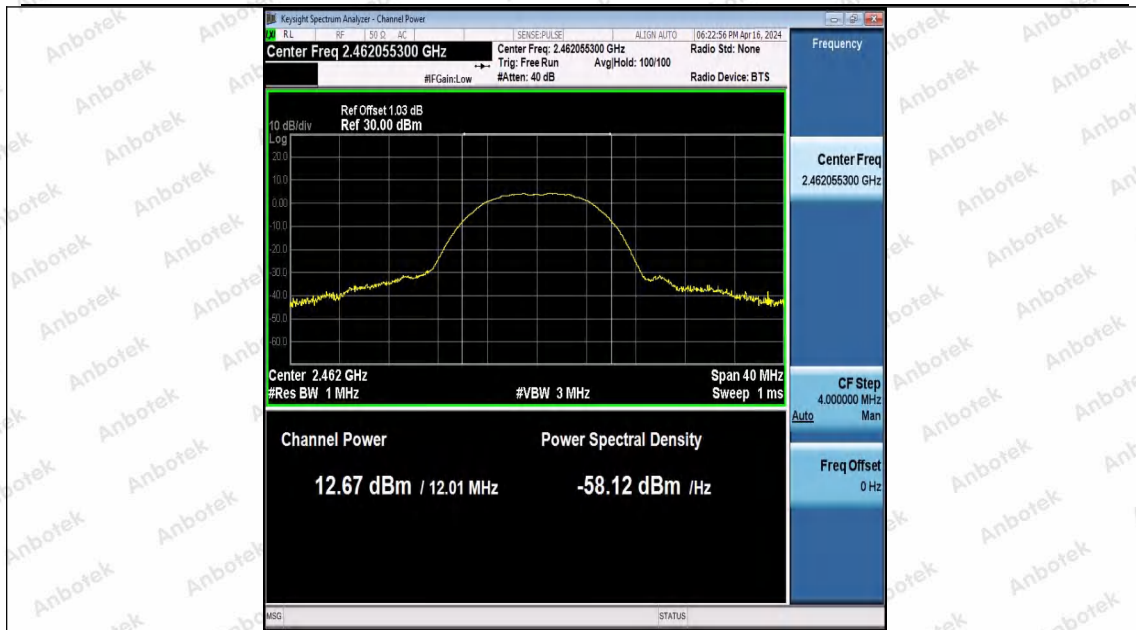
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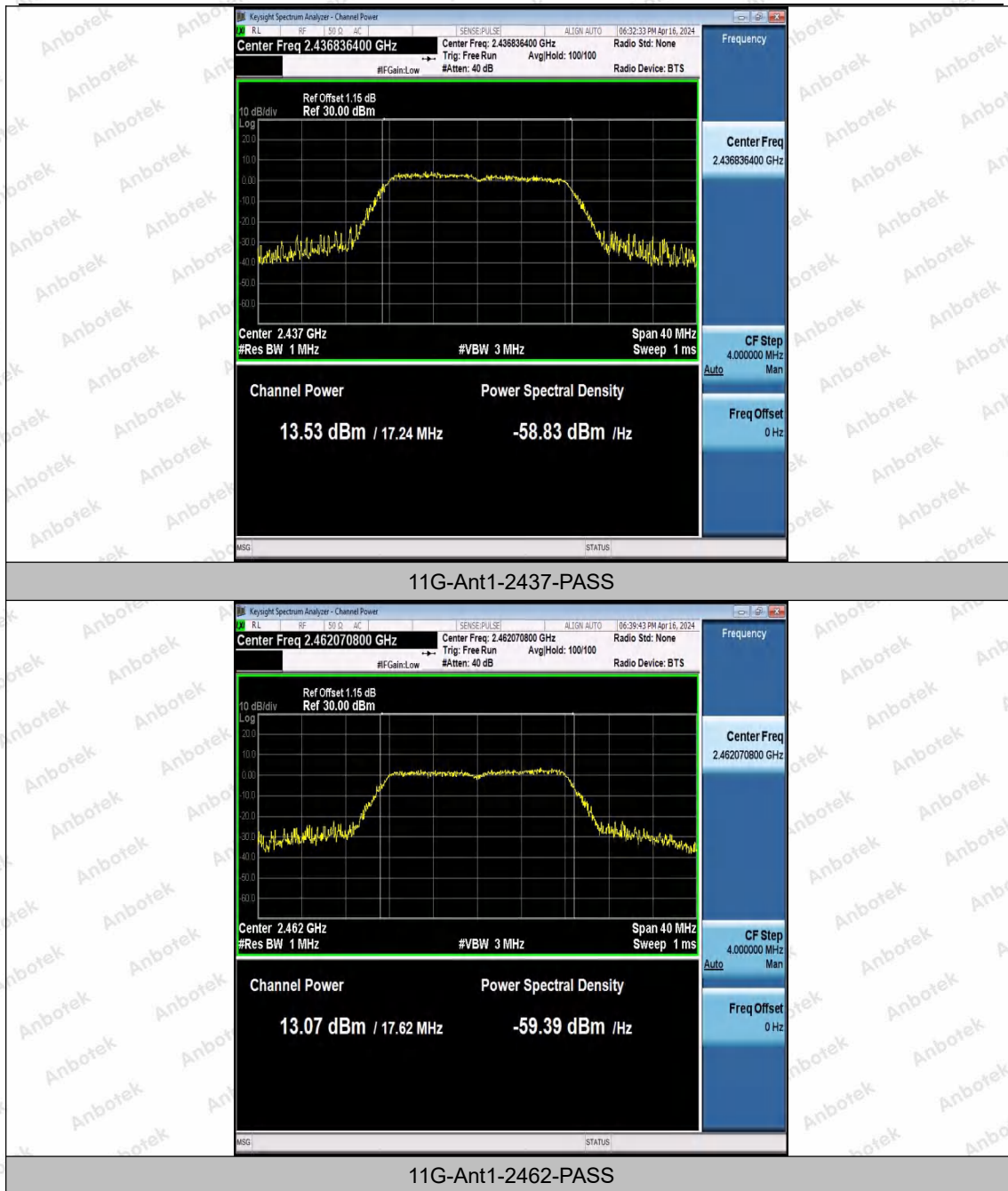


11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



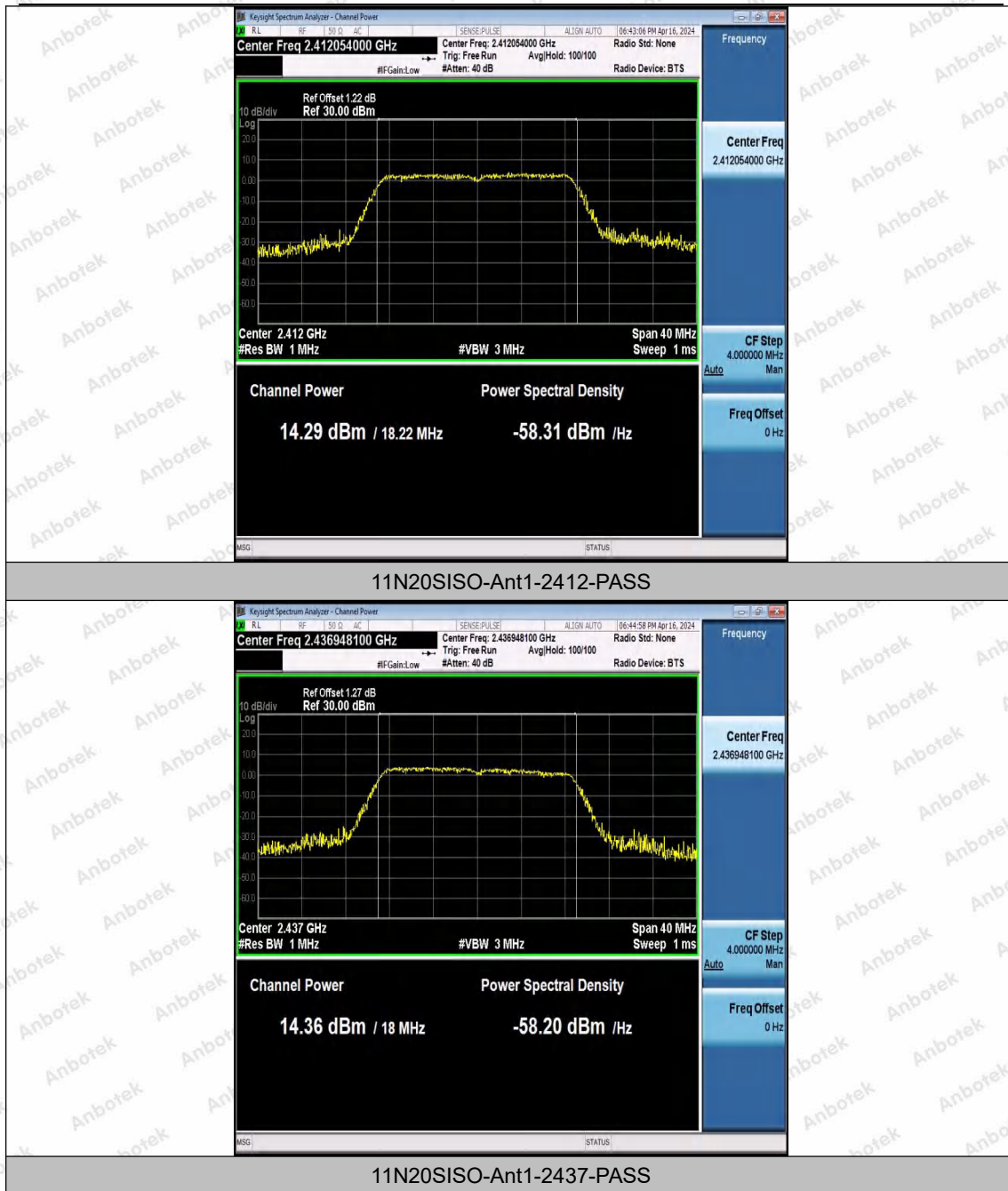
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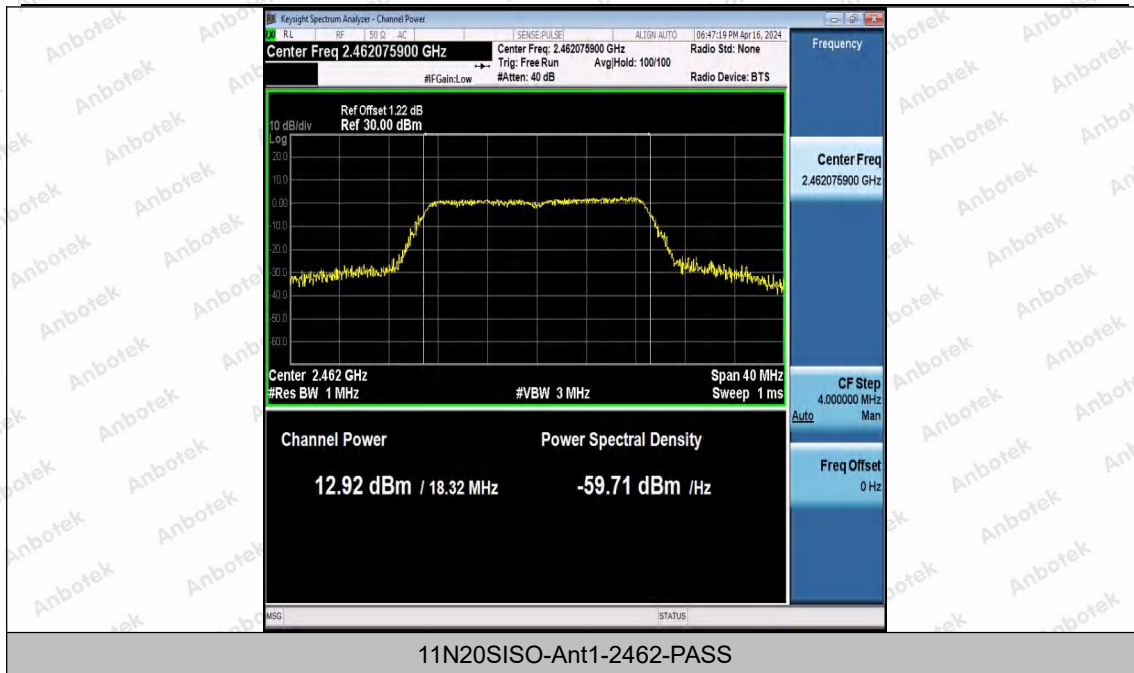
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Appendix D: Maximum power spectral density

Test Result

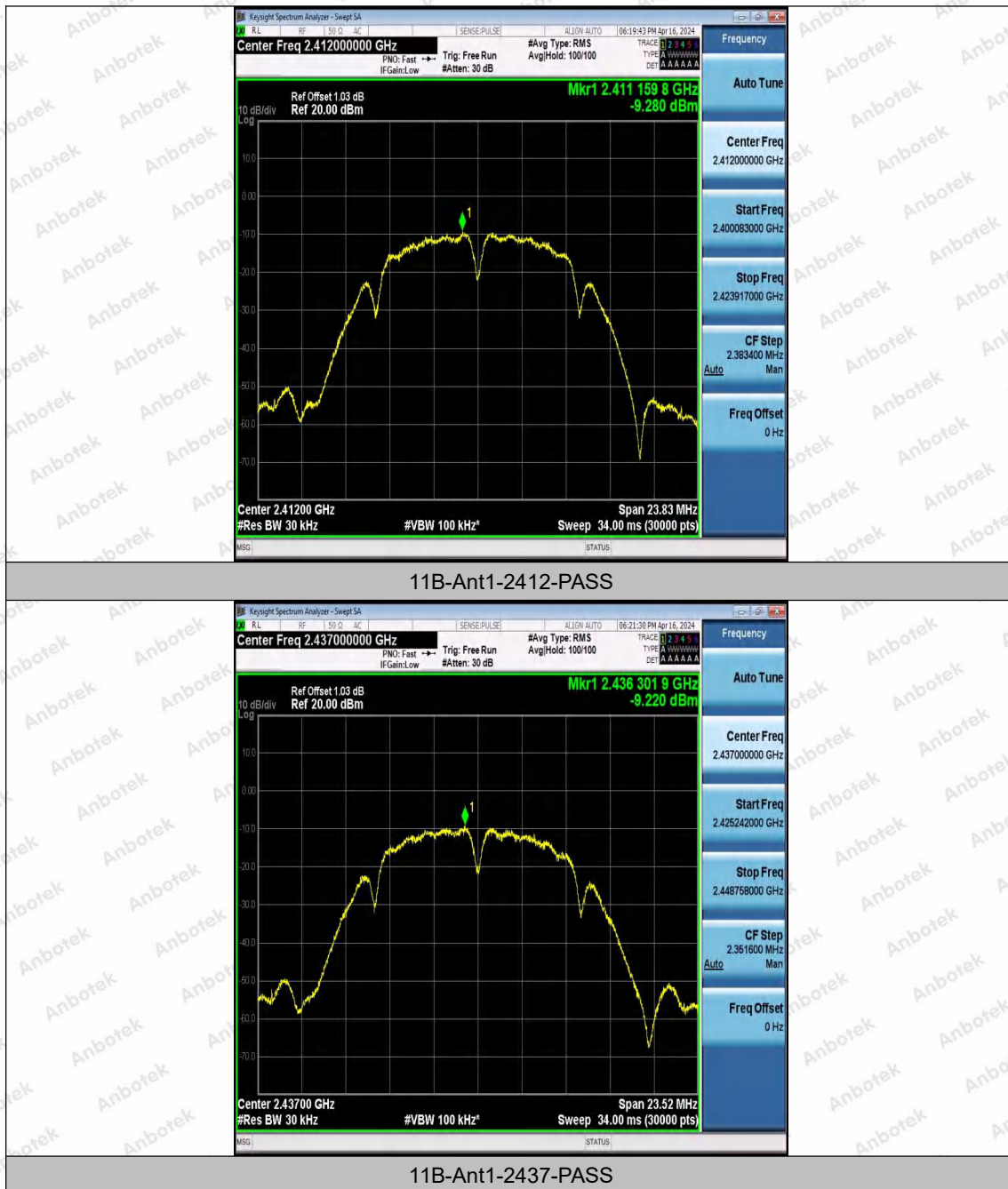
TestMode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.28	-19.28	≤8.00	PASS
11B	Ant1	2437	-9.22	-19.22	≤8.00	PASS
11B	Ant1	2462	-10.62	-20.62	≤8.00	PASS
11G	Ant1	2412	-15.25	-25.25	≤8.00	PASS
11G	Ant1	2437	-15.07	-25.07	≤8.00	PASS
11G	Ant1	2462	-15.69	-25.69	≤8.00	PASS
11N20SIS O	Ant1	2412	-14.86	-24.86	≤8.00	PASS
11N20SIS O	Ant1	2437	-14.65	-24.65	≤8.00	PASS
11N20SIS O	Ant1	2462	-16.32	-26.32	≤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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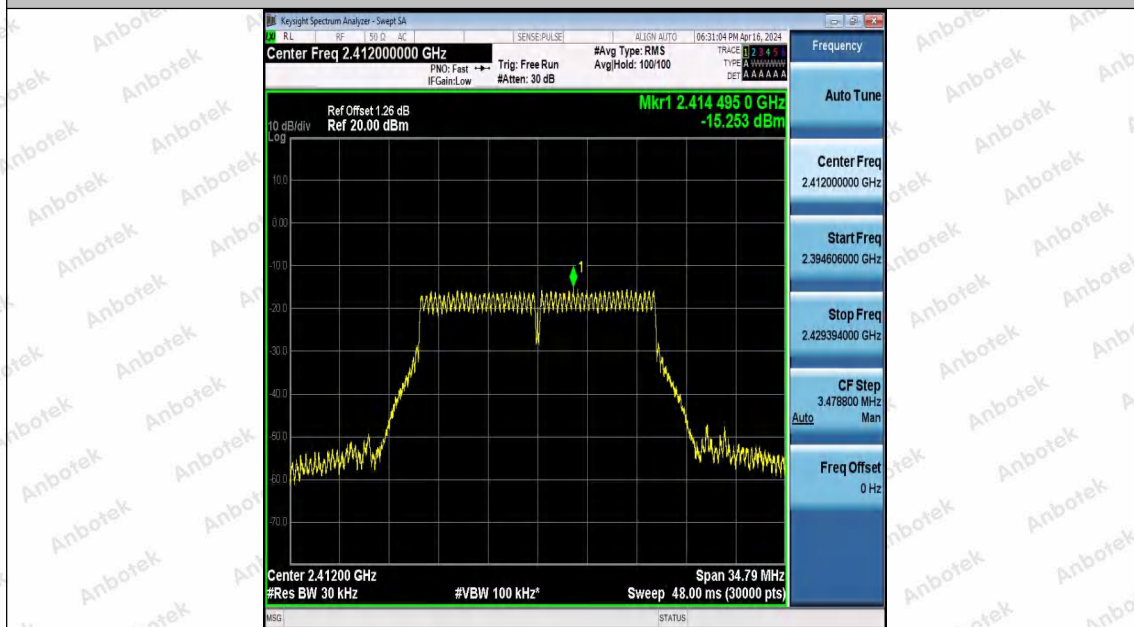


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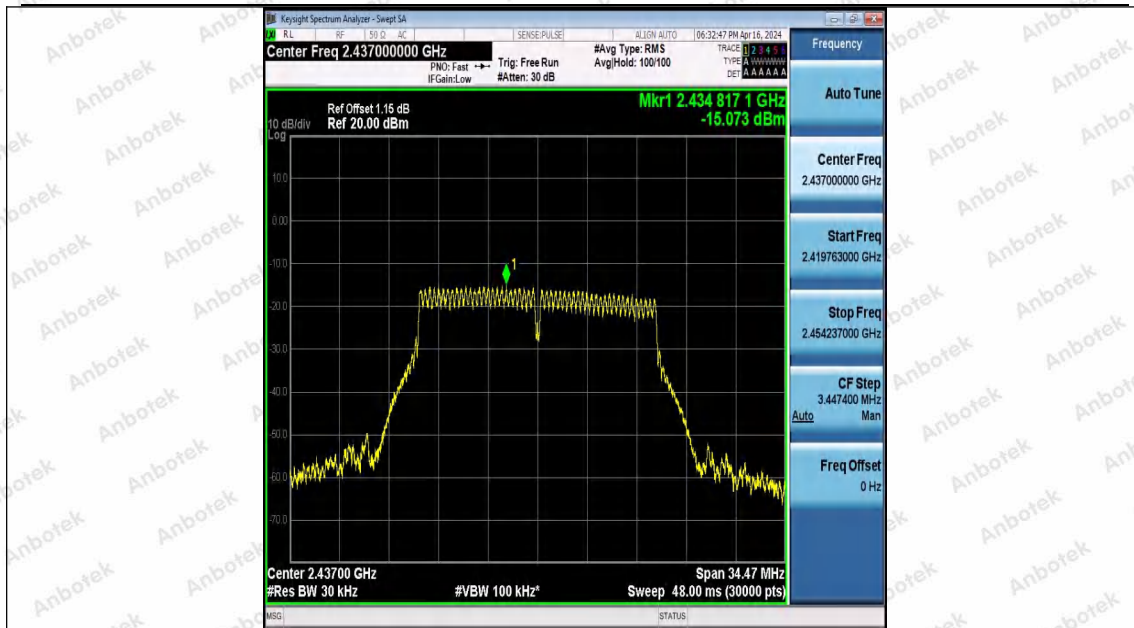


11B-Ant1-2462-PASS



11G-Ant1-2412-PASS





11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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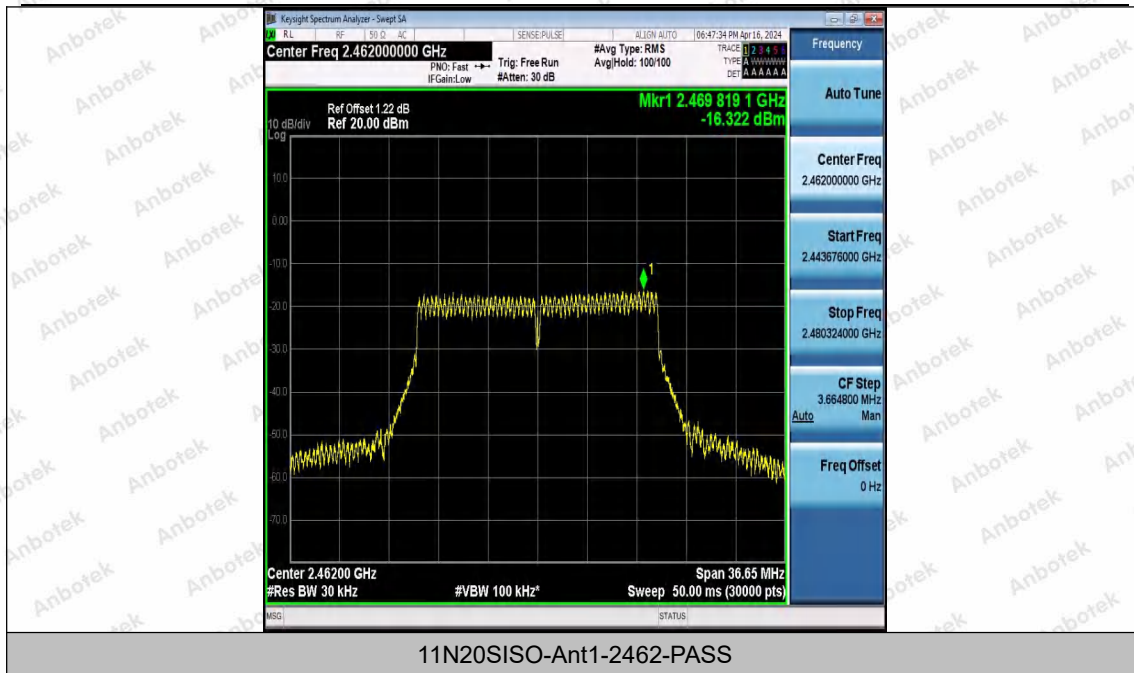


11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



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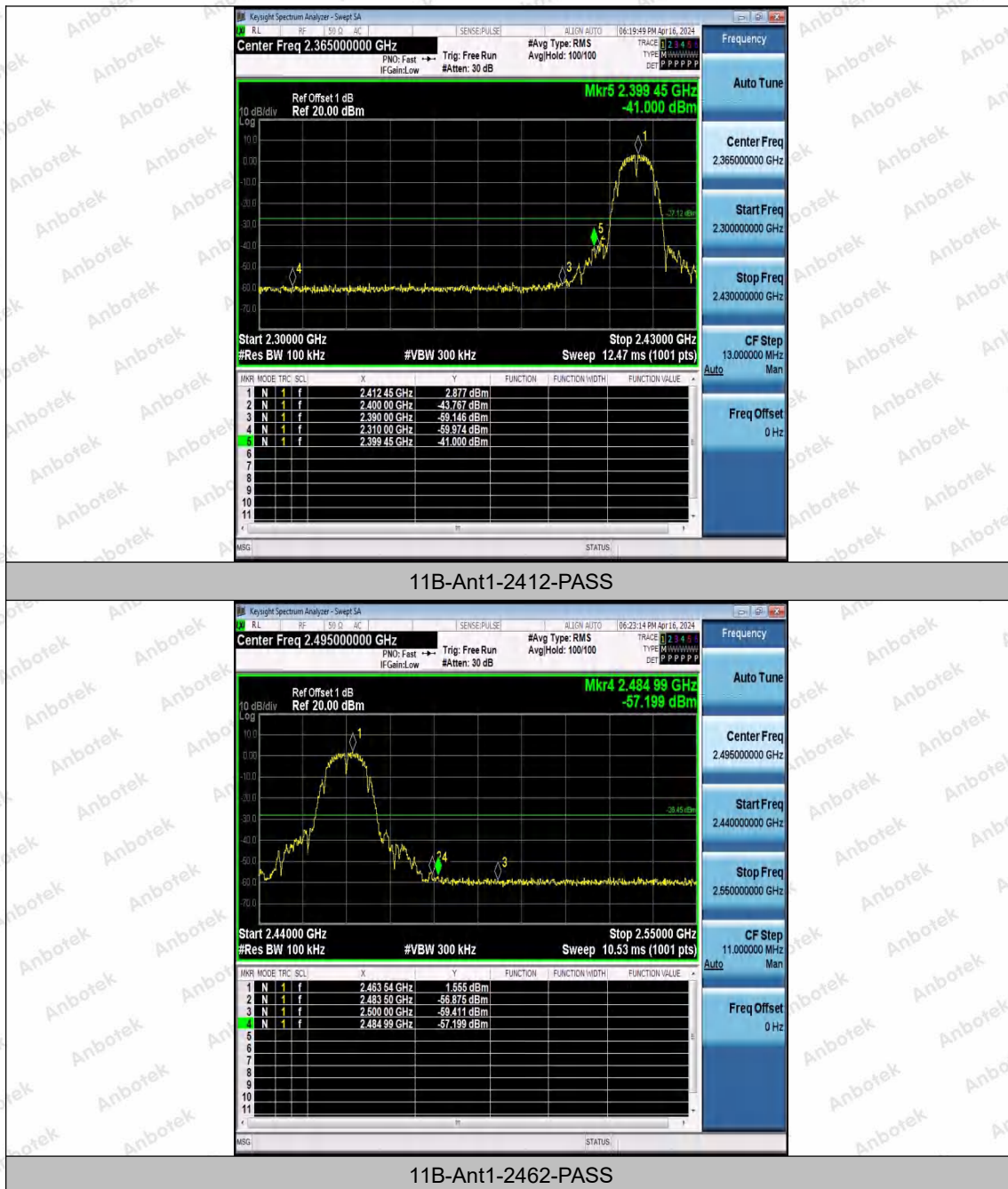
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.88	-41.00	≤-27.12	PASS
11B	Ant1	High	2462	1.56	-57.20	≤-28.45	PASS
11G	Ant1	Low	2412	-2.17	-33.62	≤-32.17	PASS
11G	Ant1	High	2462	-2.65	-47.30	≤-32.65	PASS
11N20SISO	Ant1	Low	2412	-2.03	-37.83	≤-32.03	PASS
11N20SISO	Ant1	High	2462	-3.00	-46.76	≤-33.00	PASS



Test Graphs



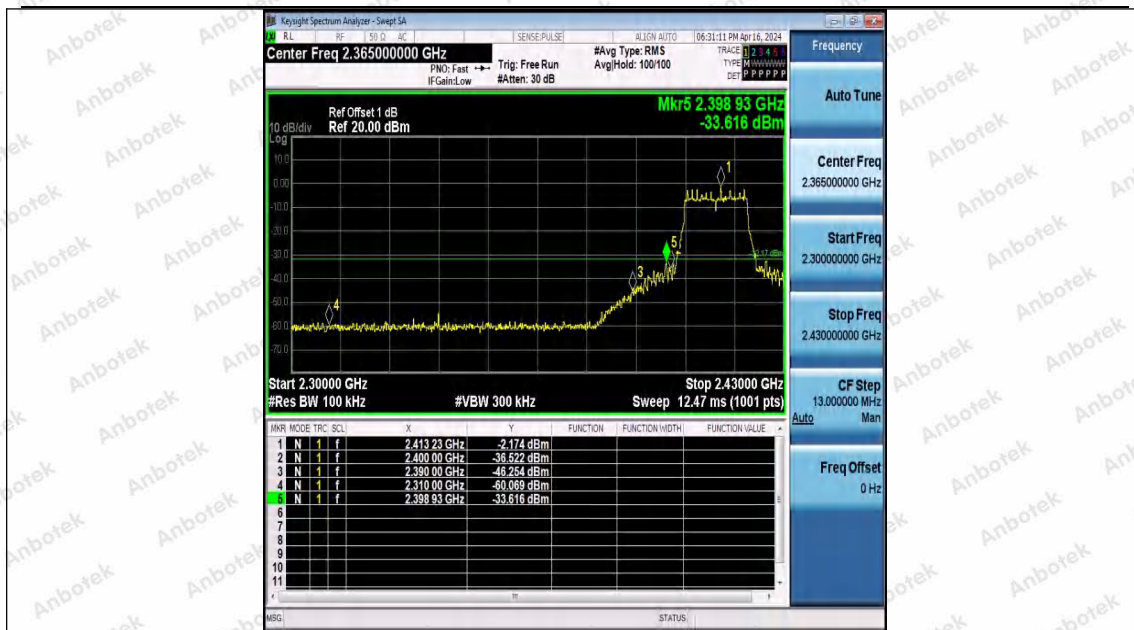
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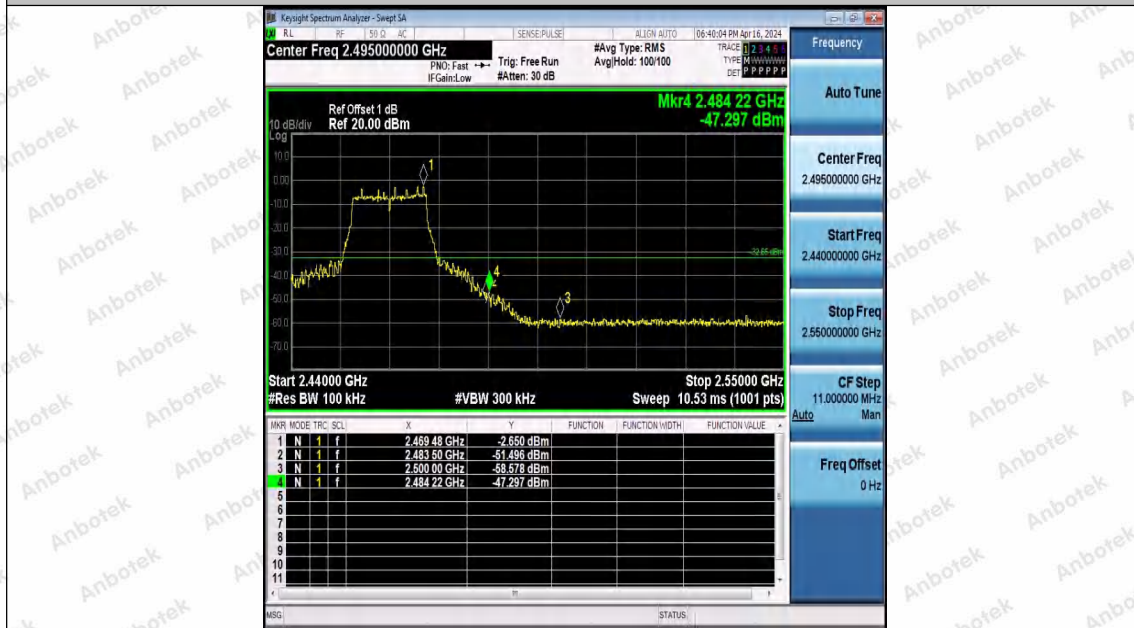


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11G-Ant1-2412-PASS



11G-Ant1-2462-PASS

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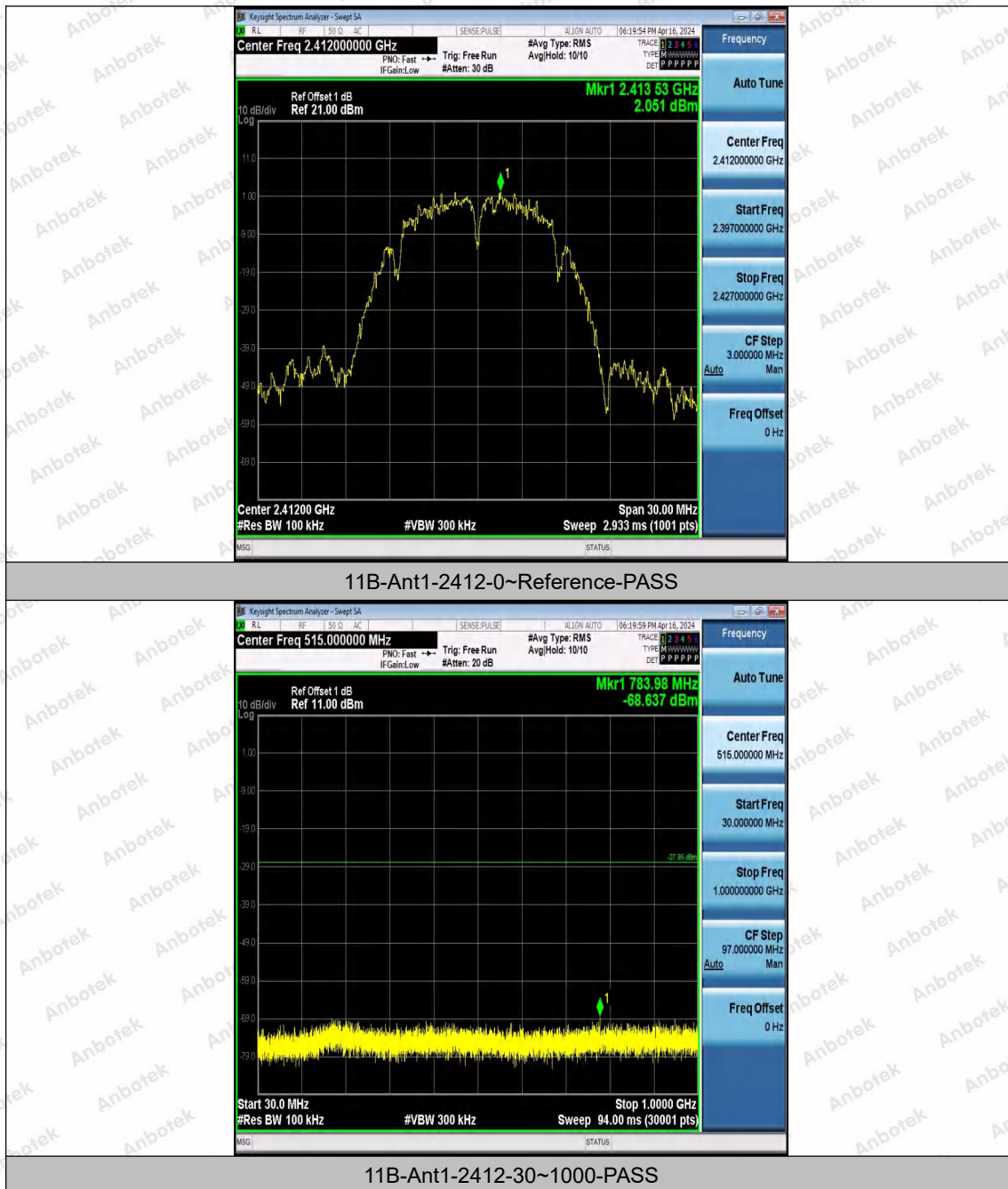
Appendix F: Conducted Spurious Emission

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	-68.64	≤-27.95	PASS
11B	Ant1	2412	1000~26500	2.05	-52.94	≤-27.95	PASS
11B	Ant1	2437	0~Reference	2.03	2.03	---	PASS
11B	Ant1	2437	30~1000	2.03	-68.32	≤-27.97	PASS
11B	Ant1	2437	1000~26500	2.03	-52.18	≤-27.97	PASS
11B	Ant1	2462	0~Reference	1.54	1.54	---	PASS
11B	Ant1	2462	30~1000	1.54	-68.13	≤-28.46	PASS
11B	Ant1	2462	1000~26500	1.54	-46.9	≤-28.46	PASS
11G	Ant1	2412	0~Reference	-3.99	-3.99	---	PASS
11G	Ant1	2412	30~1000	-3.99	-68.85	≤-33.99	PASS
11G	Ant1	2412	1000~26500	-3.99	-53.76	≤-33.99	PASS
11G	Ant1	2437	0~Reference	-3.52	-3.52	---	PASS
11G	Ant1	2437	30~1000	-3.52	-69.02	≤-33.52	PASS
11G	Ant1	2437	1000~26500	-3.52	-53.75	≤-33.52	PASS
11G	Ant1	2462	0~Reference	-6.10	-6.10	---	PASS
11G	Ant1	2462	30~1000	-6.10	-68.19	≤-36.1	PASS
11G	Ant1	2462	1000~26500	-6.10	-53.46	≤-36.1	PASS
11N20SISO	Ant1	2412	0~Reference	-1.61	-1.61	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.61	-68.48	≤-31.61	PASS
11N20SISO	Ant1	2412	1000~26500	-1.61	-53.63	≤-31.61	PASS
11N20SISO	Ant1	2437	0~Reference	-2.86	-2.86	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.86	-68.83	≤-32.86	PASS
11N20SISO	Ant1	2437	1000~26500	-2.86	-53.12	≤-32.86	PASS
11N20SISO	Ant1	2462	0~Reference	-3.26	-3.26	---	PASS
11N20SISO	Ant1	2462	30~1000	-3.26	-69.2	≤-33.26	PASS
11N20SISO	Ant1	2462	1000~26500	-3.26	-52.8	≤-33.26	PASS



Test Graphs



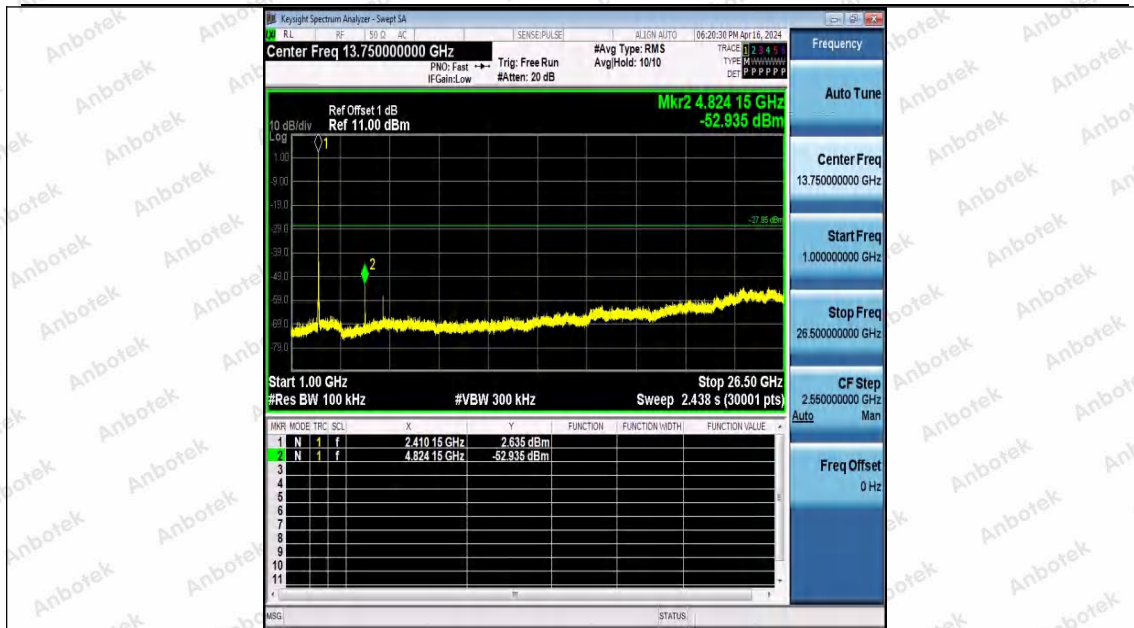
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11B-Ant1-2412-1000~26500-PASS



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

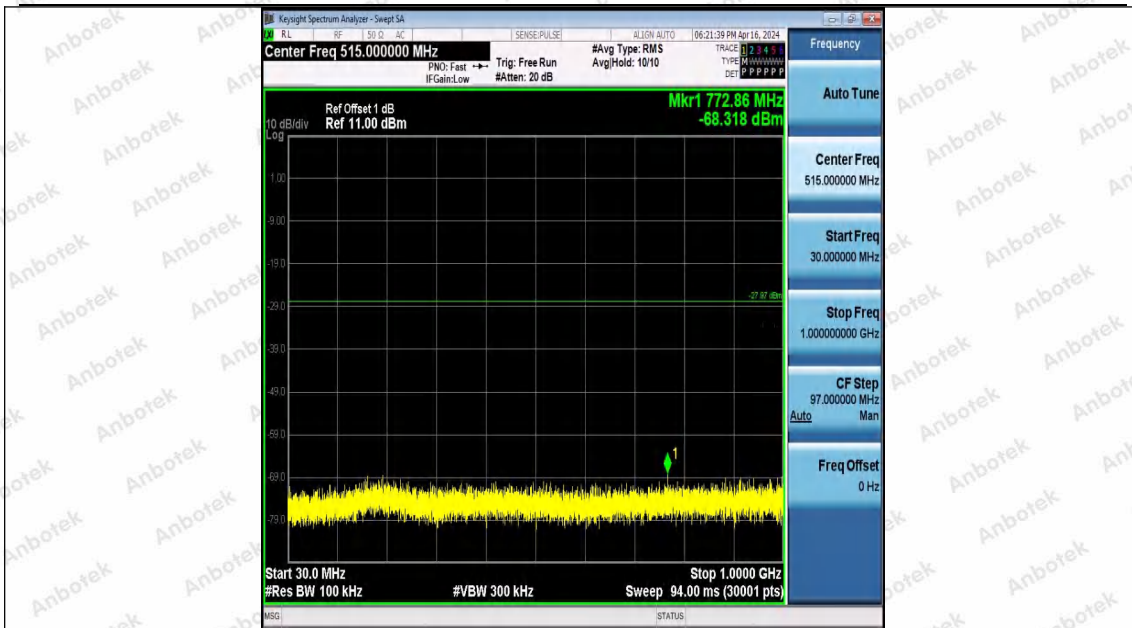
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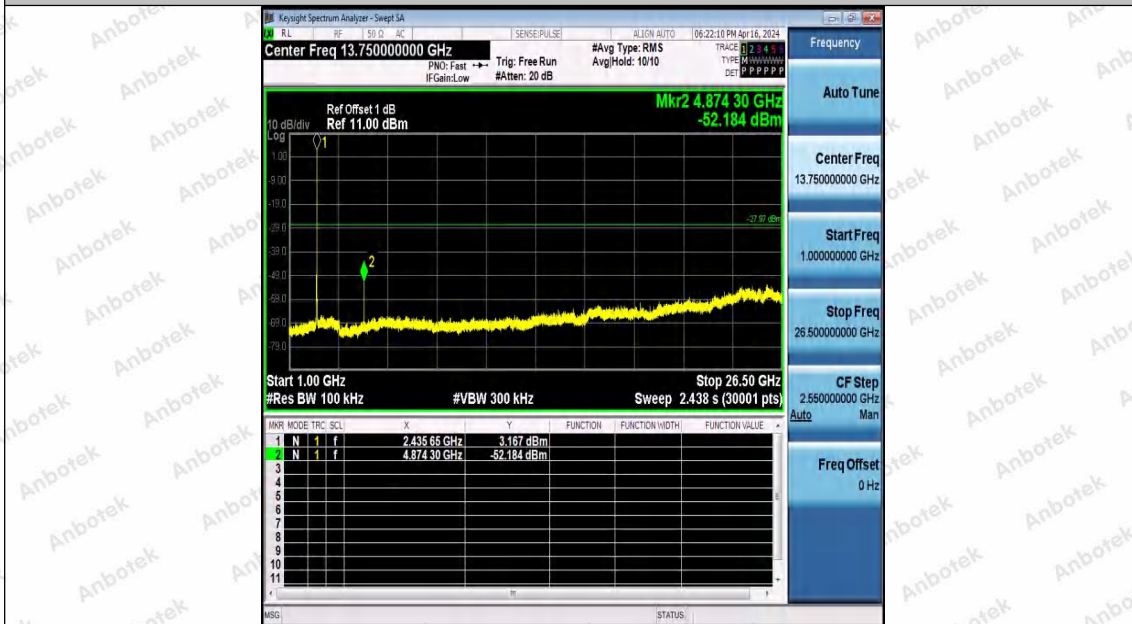


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11B-Ant1-2437-30~1000-PASS

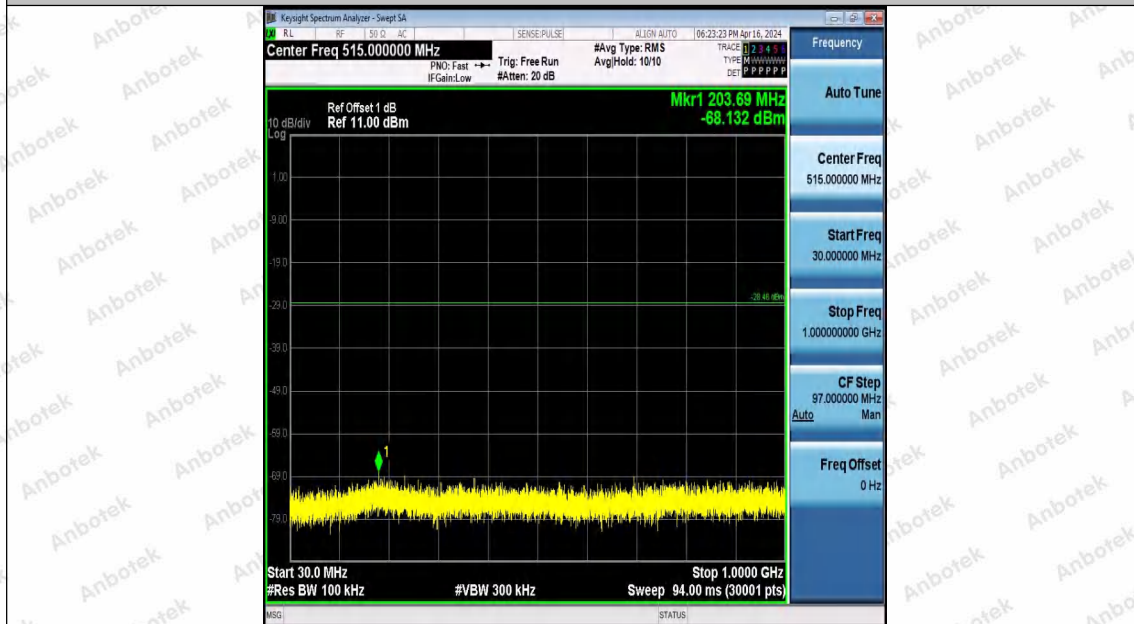


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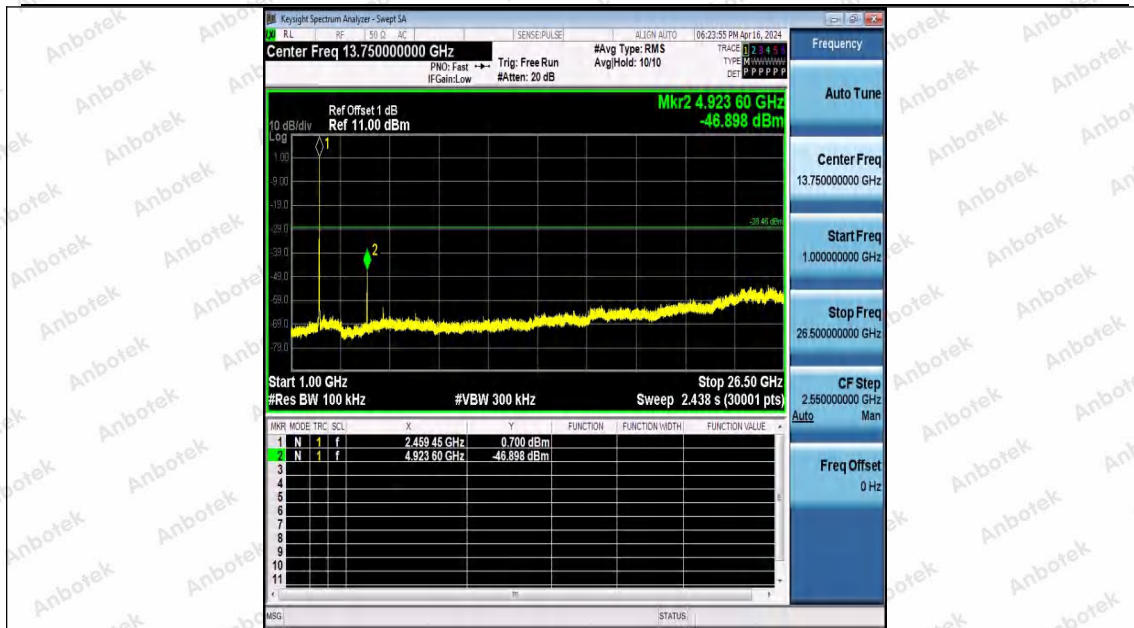


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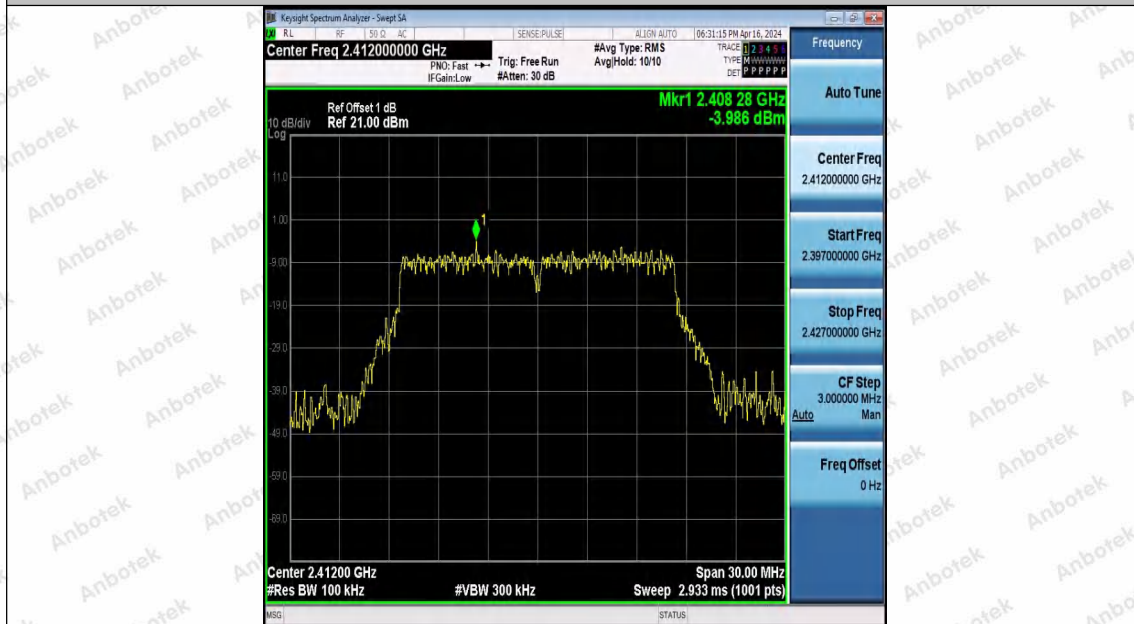


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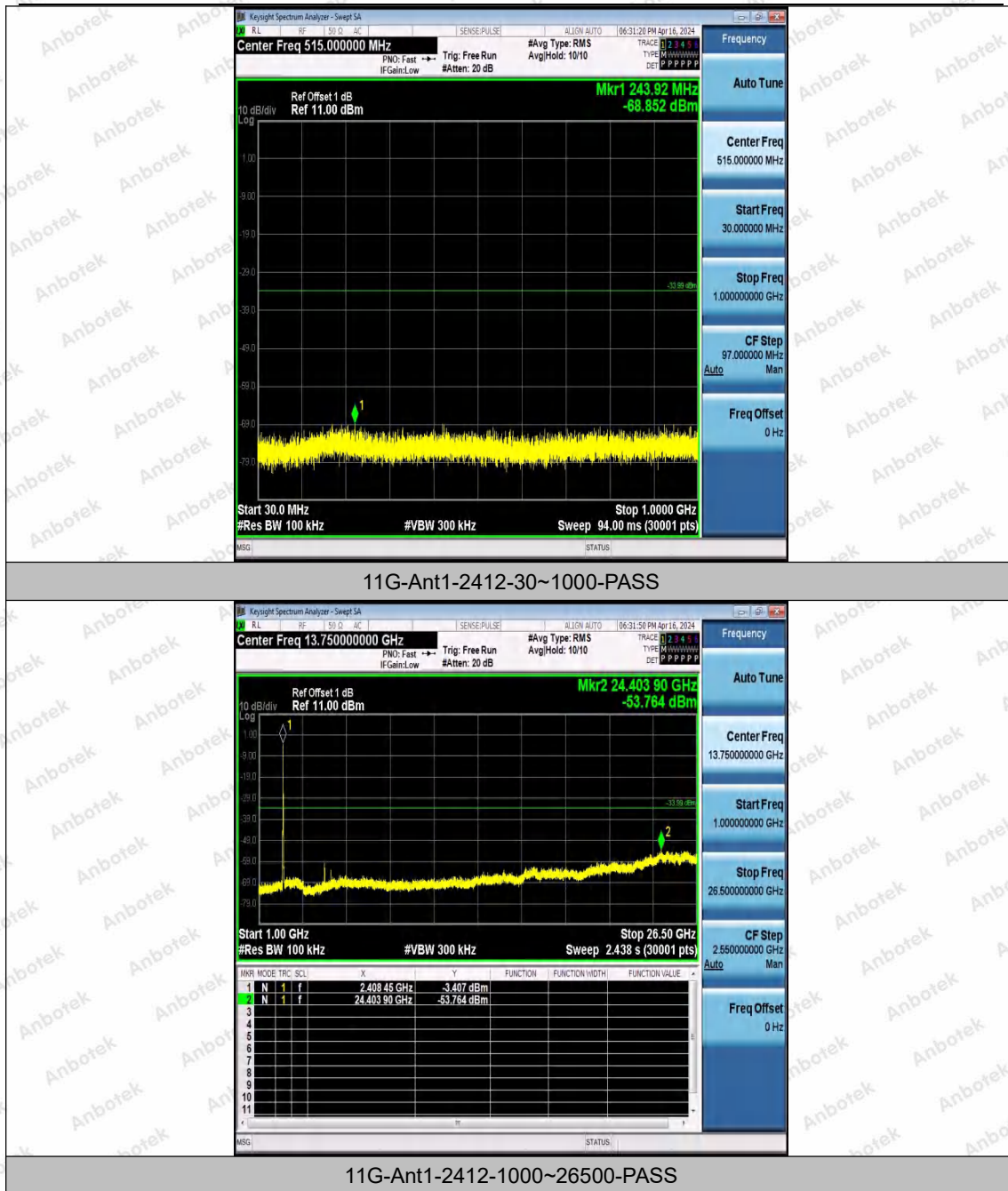


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11G-Ant1-2412-0~Reference-PASS





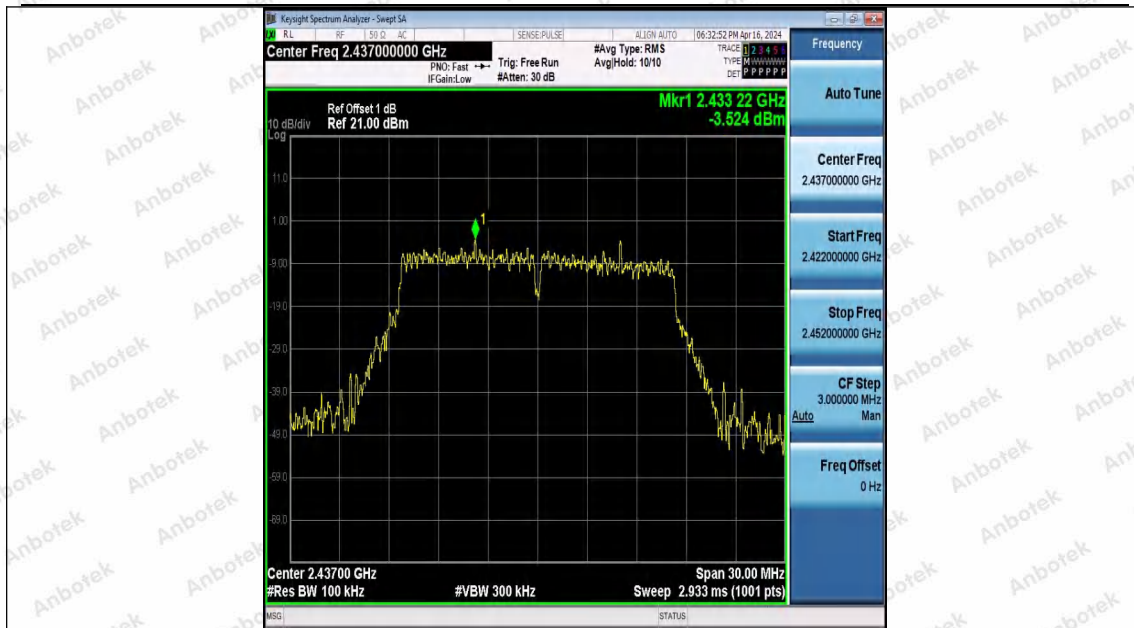
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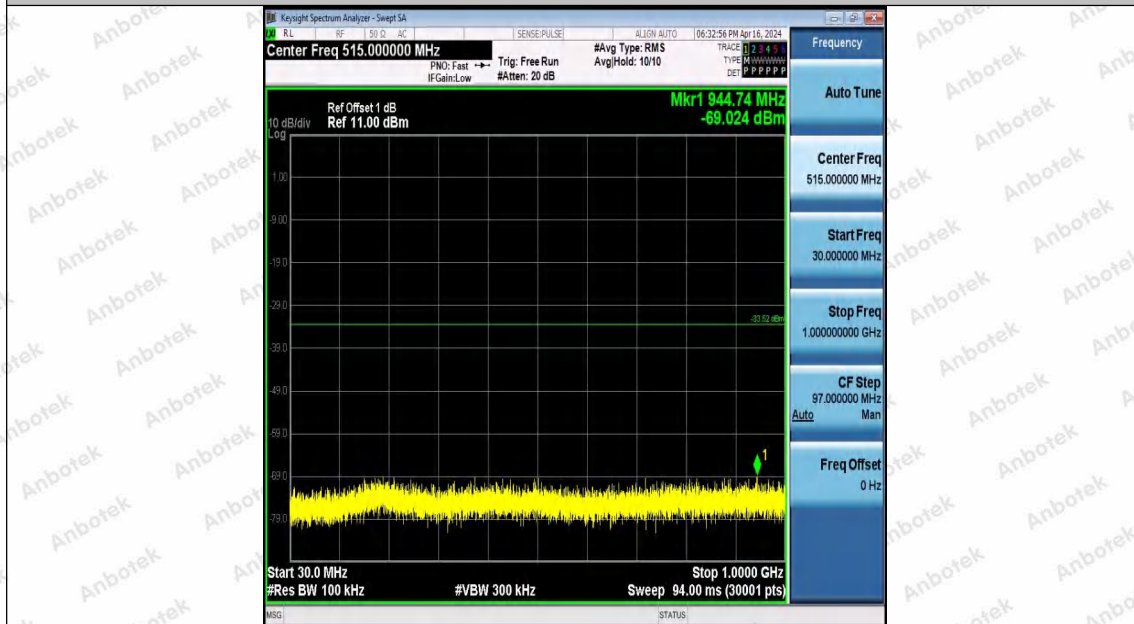


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11G-Ant1-2437-0~Reference-PASS



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

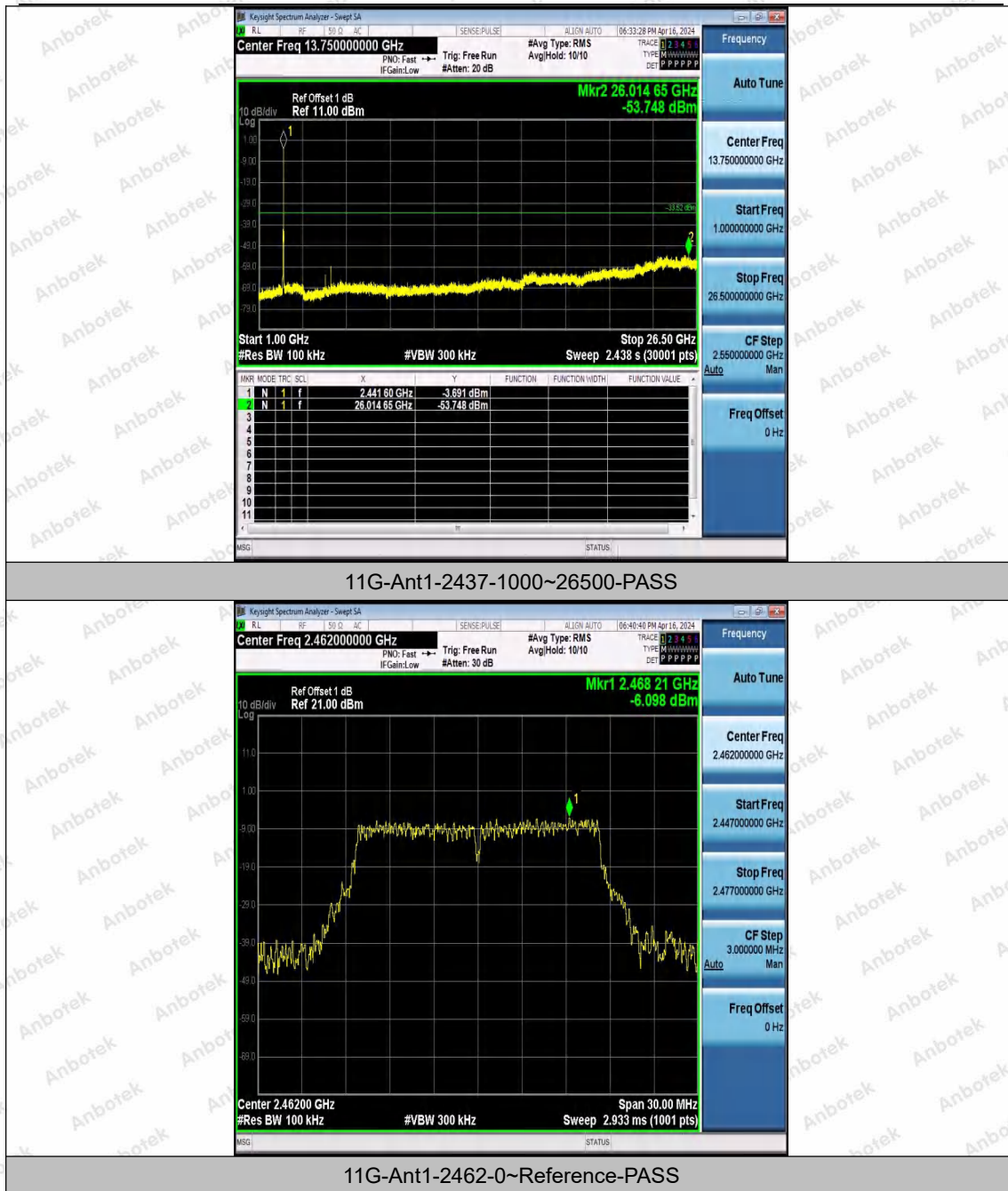
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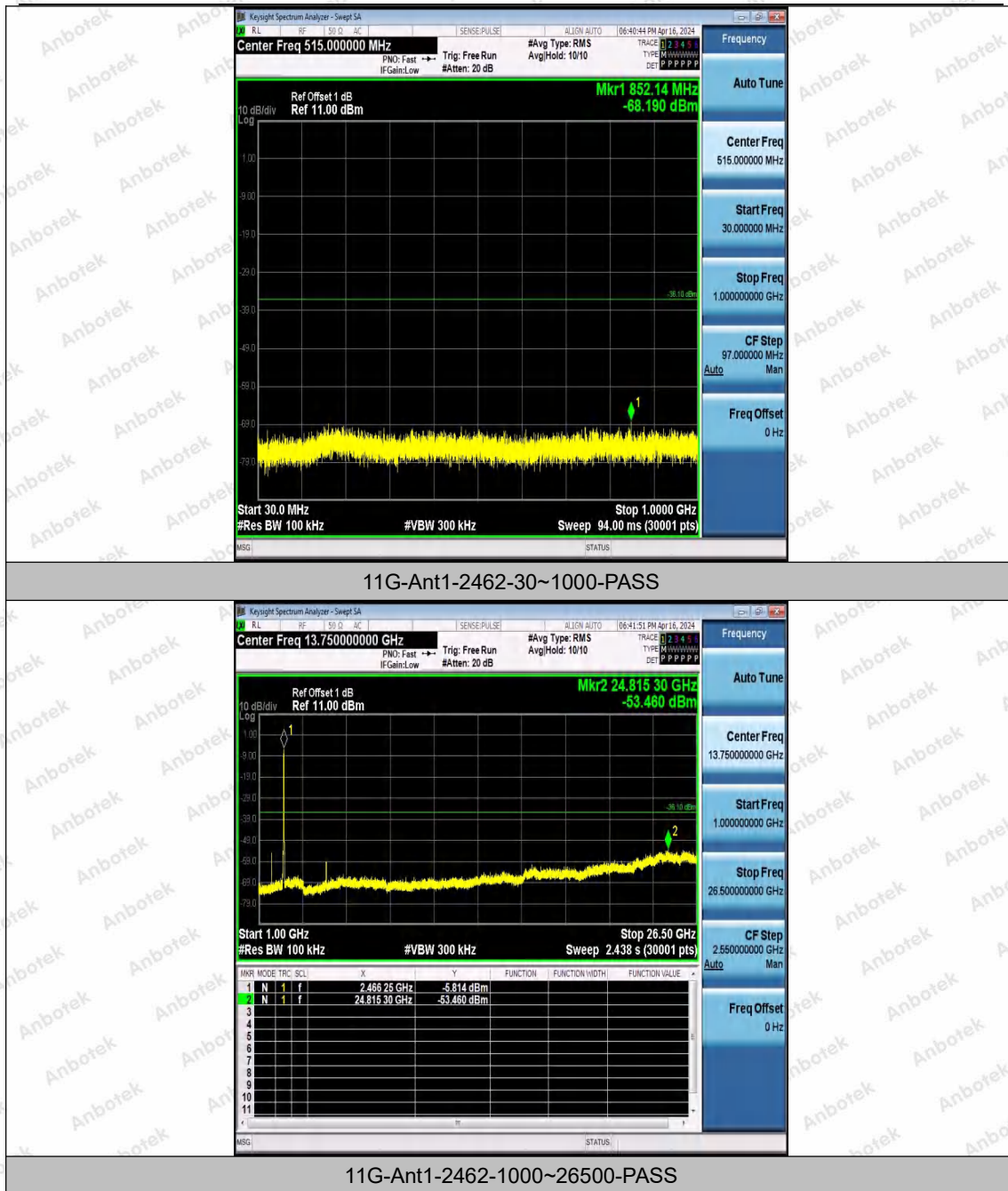
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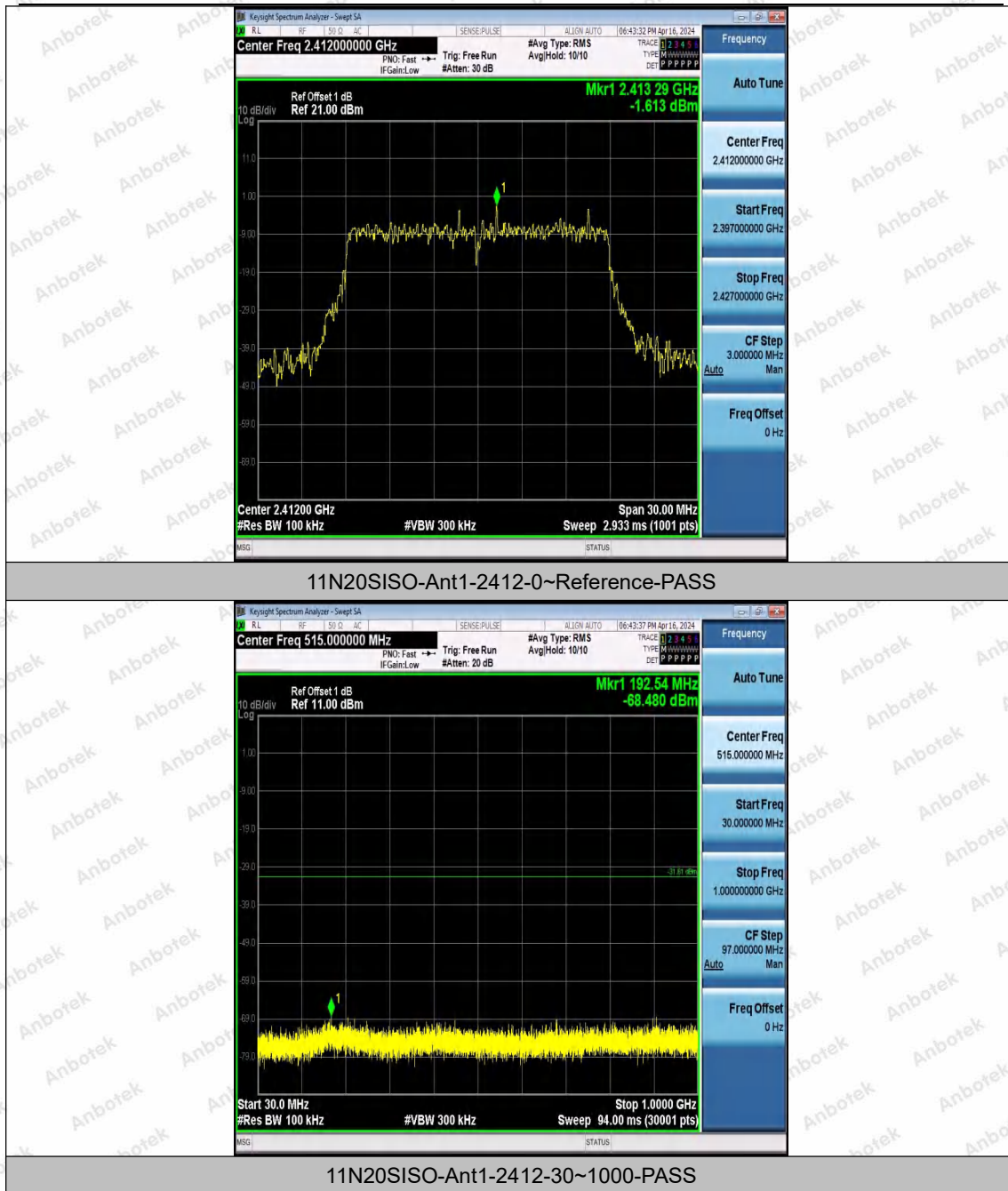
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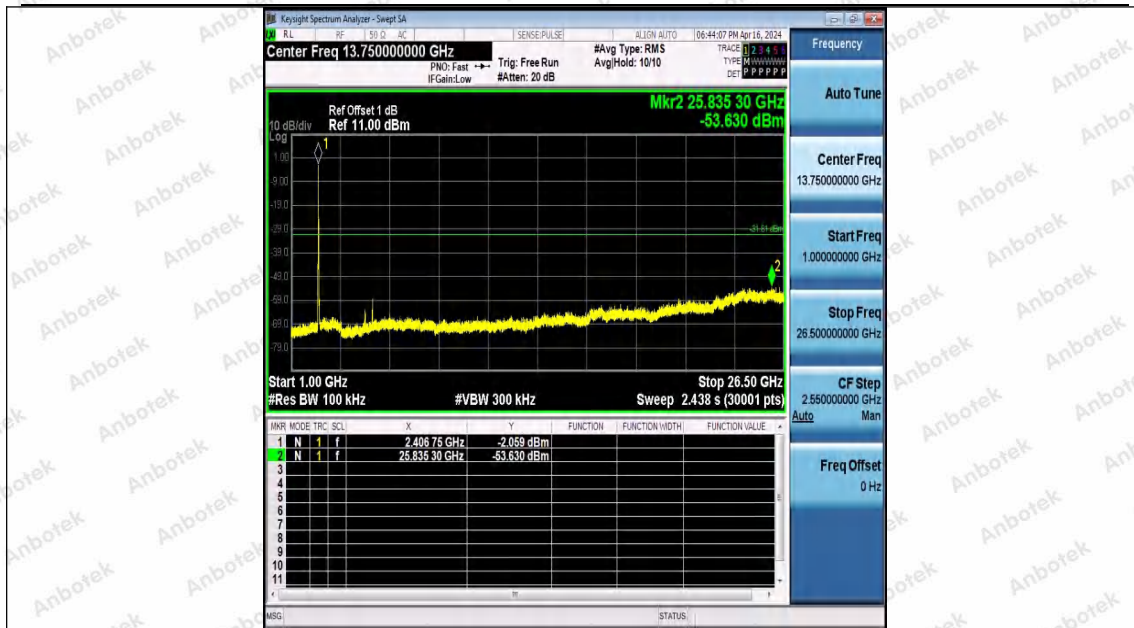
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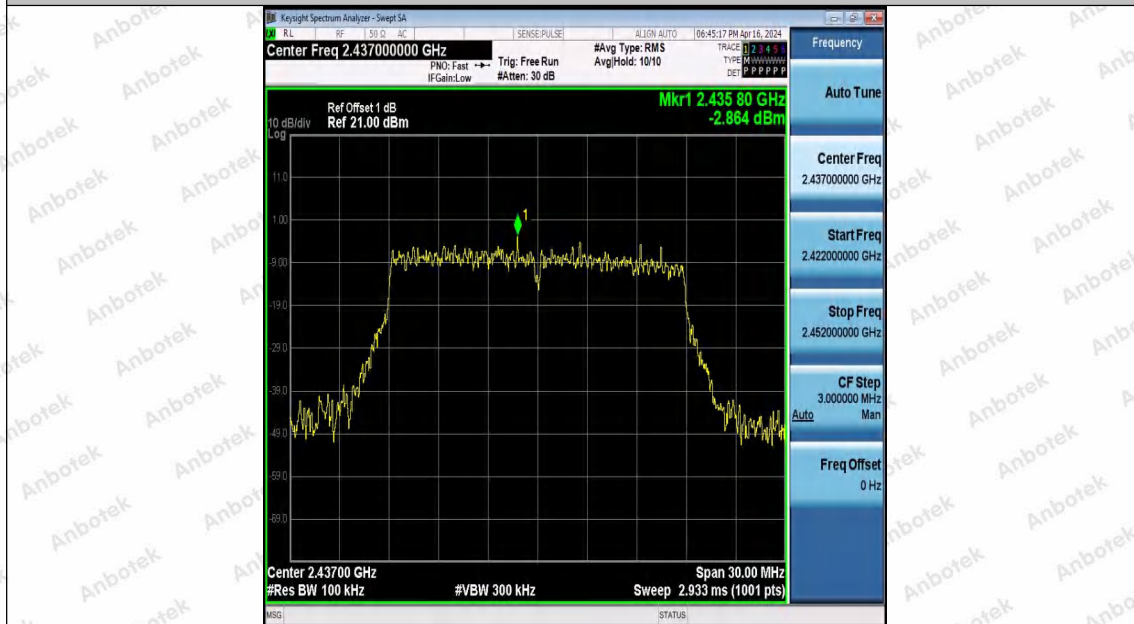


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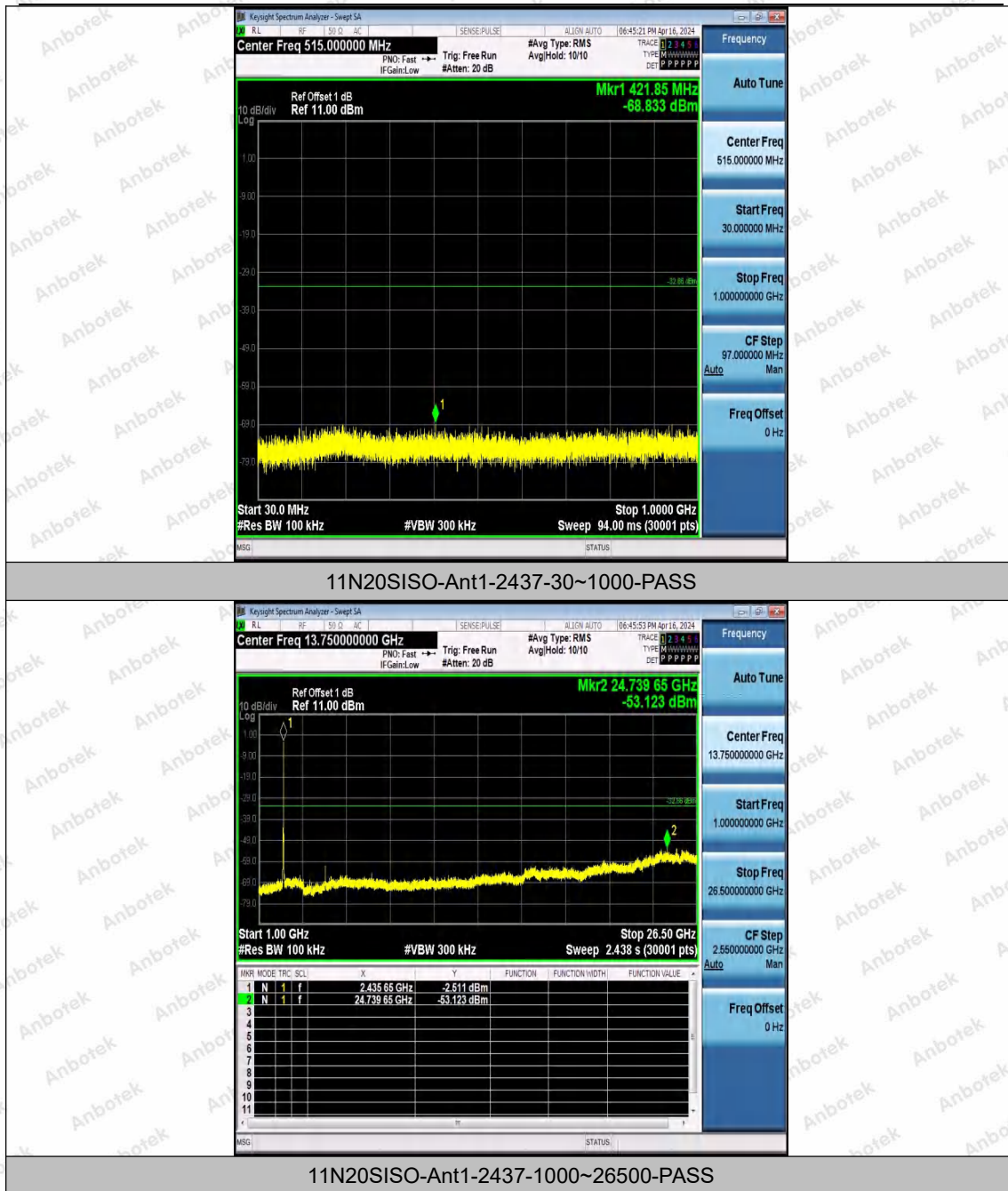


11N20SISO-Ant1-2412-1000~26500-PASS



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





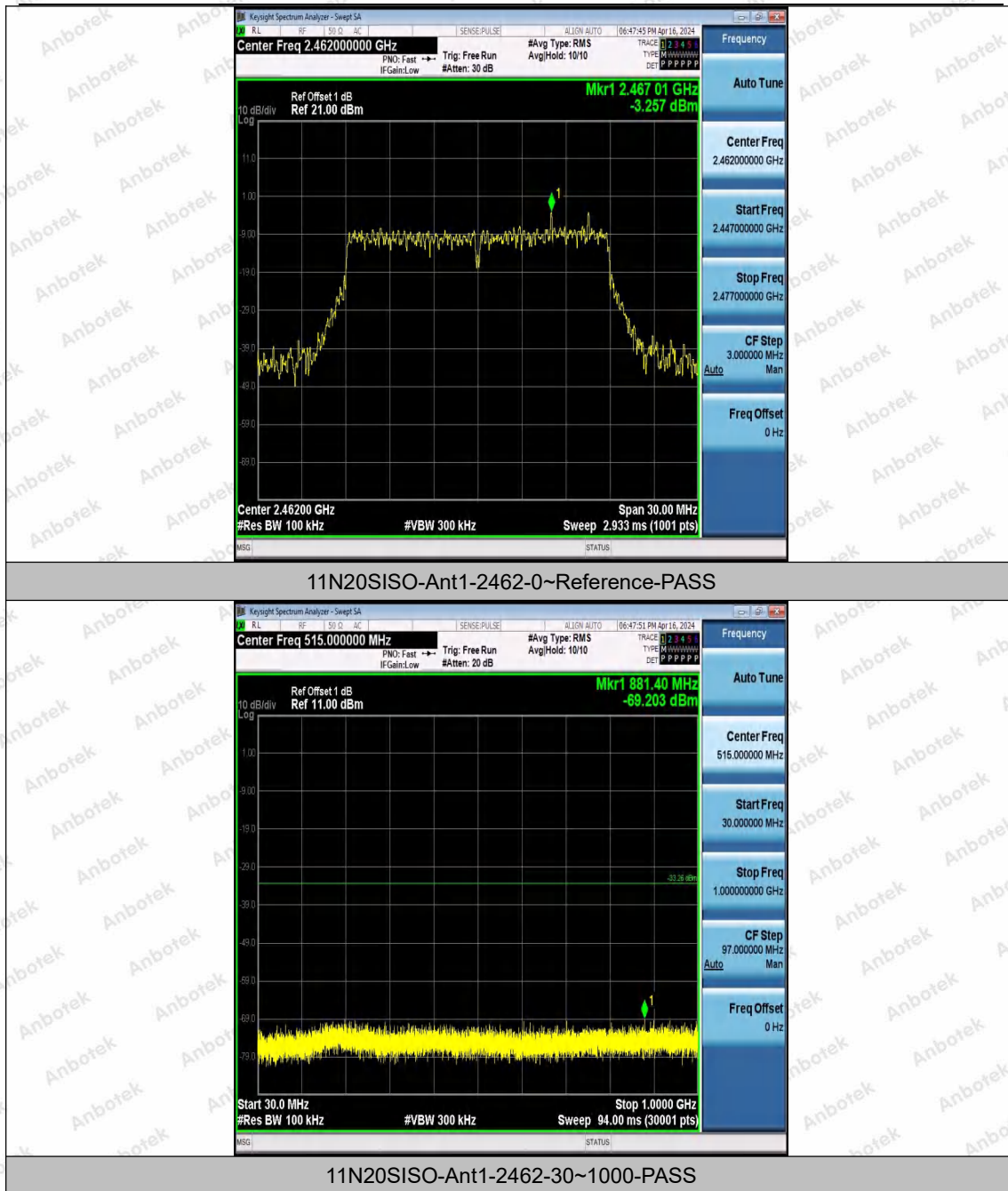
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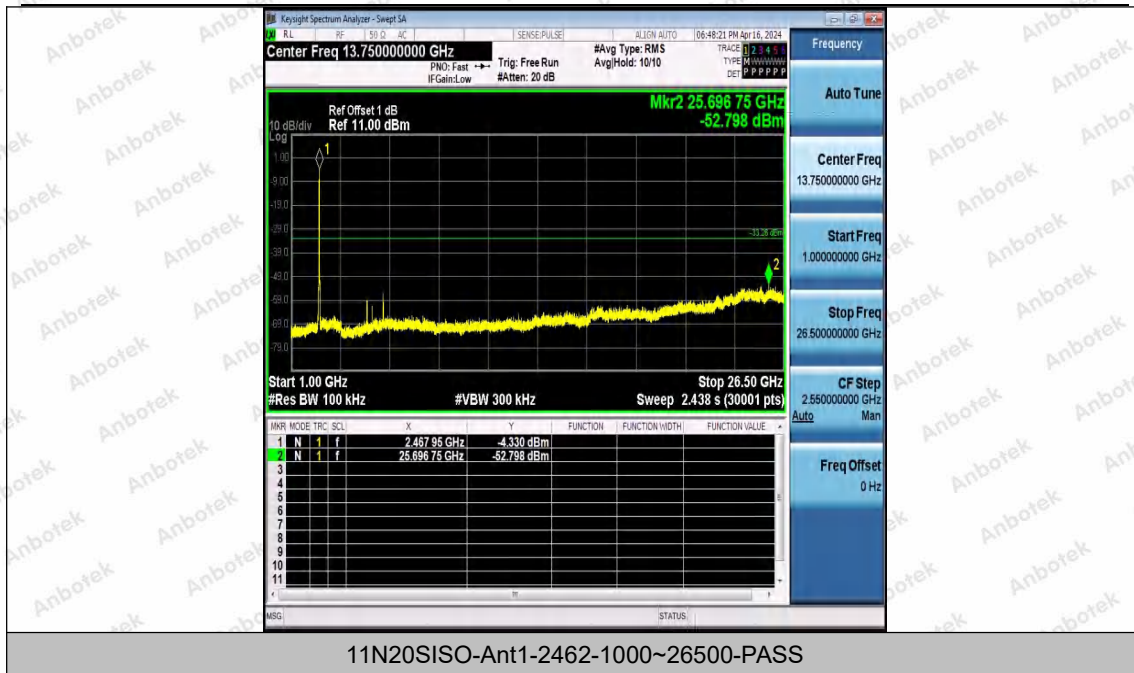
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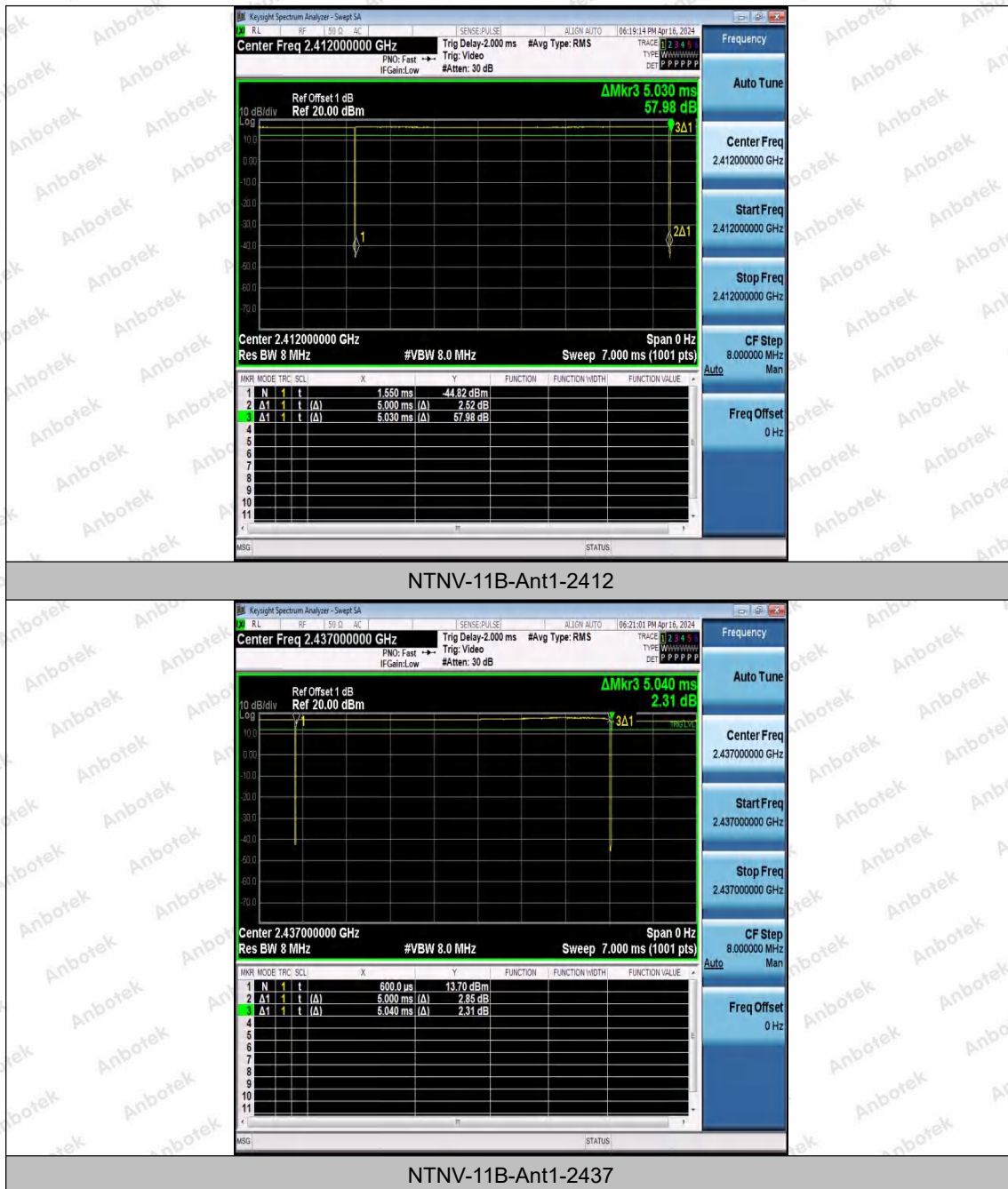
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	5.00	5.03	99.40	0.03
11B	Ant1	2437	5.00	5.04	99.21	0.03
11B	Ant1	2462	5.00	5.03	99.40	0.03
11G	Ant1	2412	0.82	0.87	94.25	0.26
11G	Ant1	2437	0.83	0.86	96.51	0.15
11G	Ant1	2462	0.83	0.86	96.51	0.15
11N20SISO	Ant1	2412	0.78	0.82	95.12	0.22
11N20SISO	Ant1	2437	0.78	0.83	93.98	0.27
11N20SISO	Ant1	2462	0.78	0.82	95.12	0.22



Test Graphs



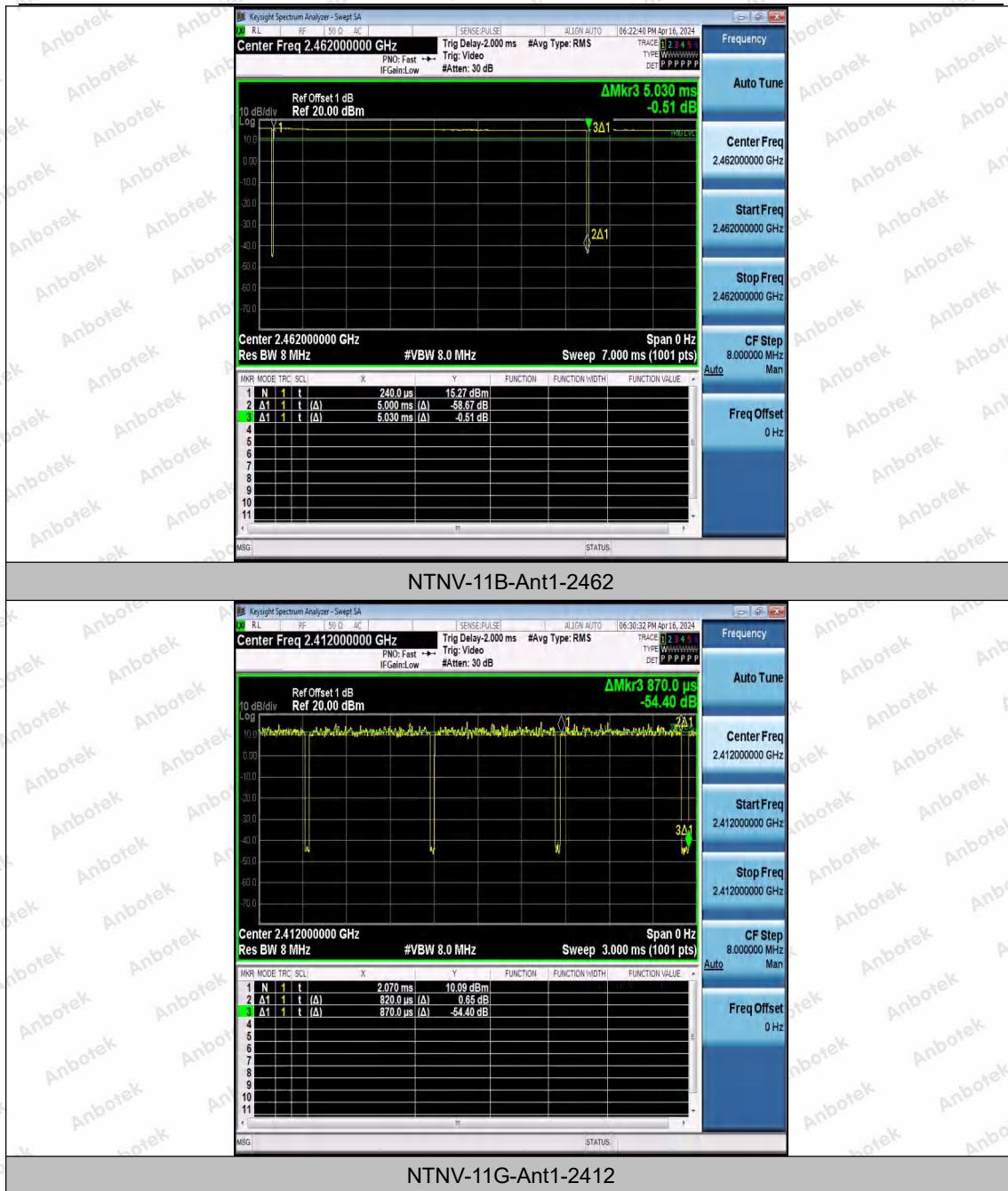
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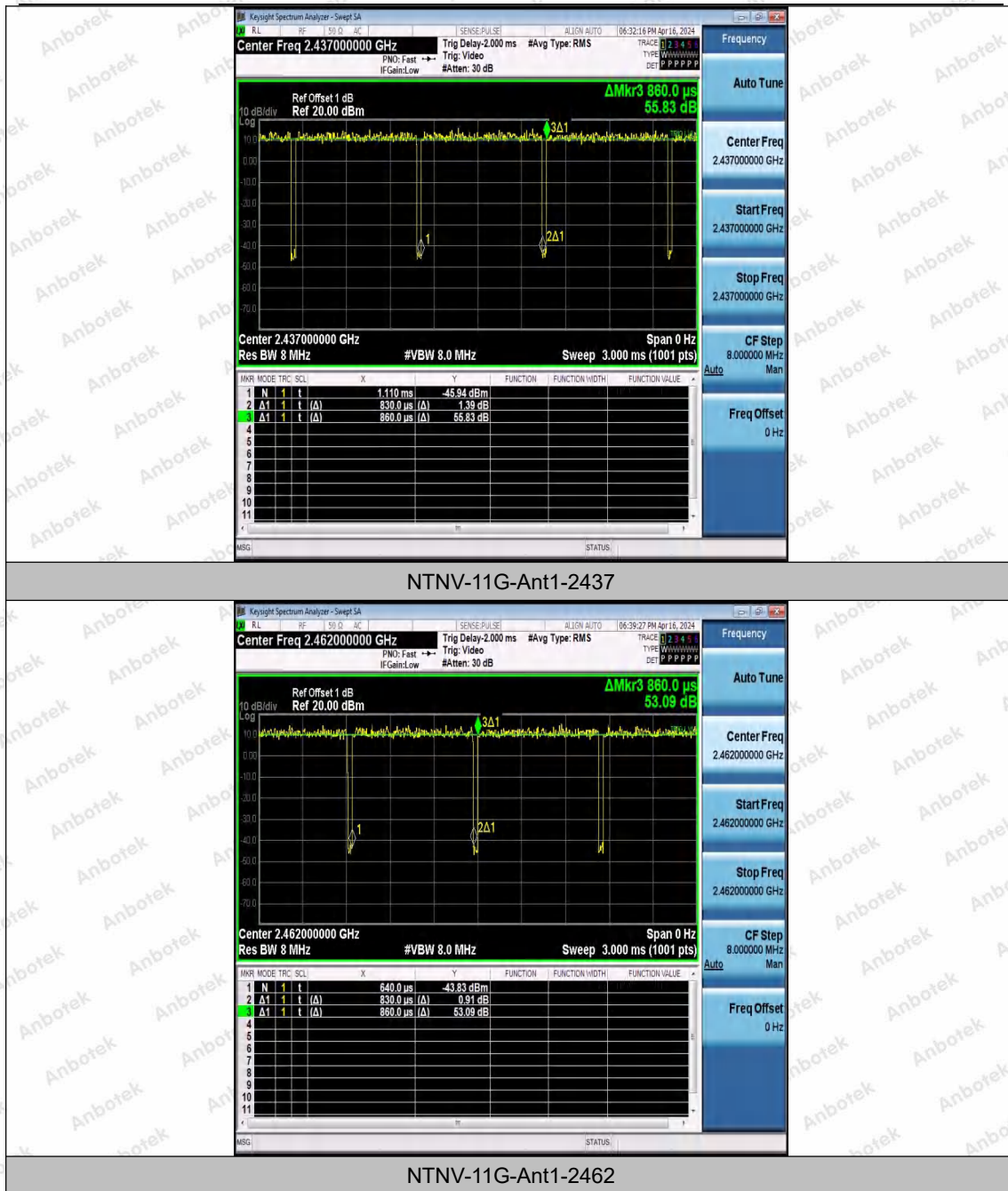
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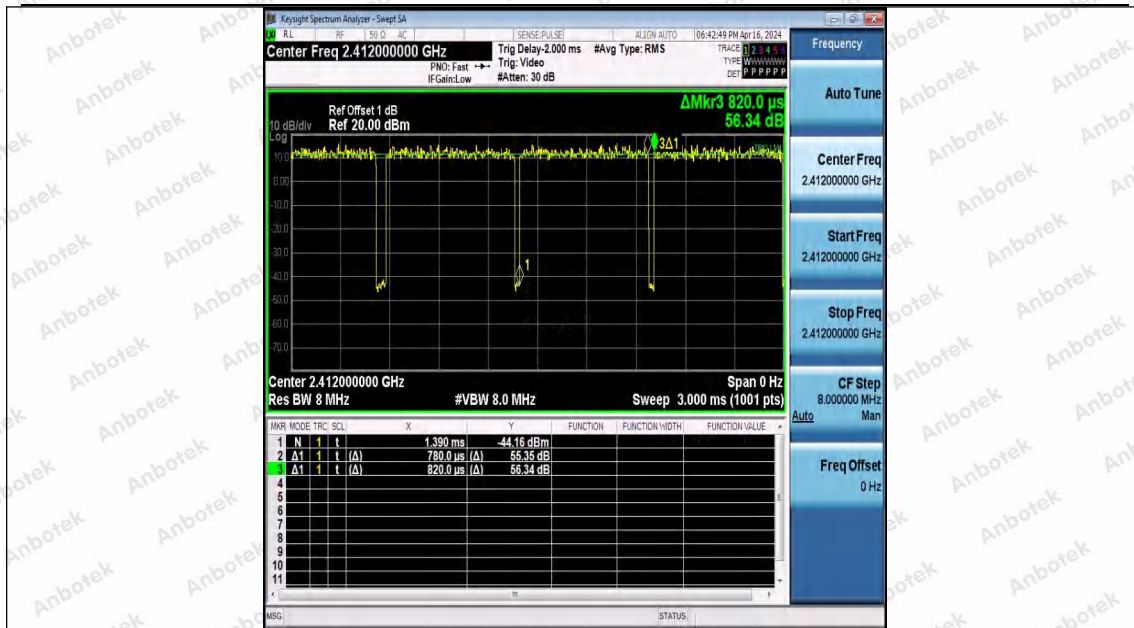
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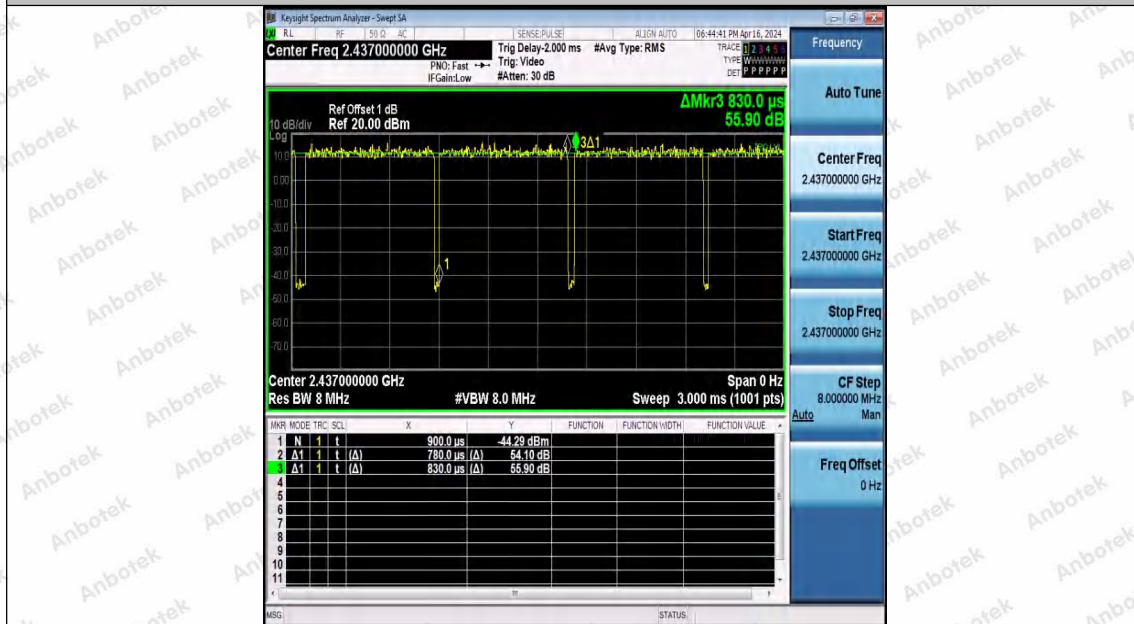


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NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437

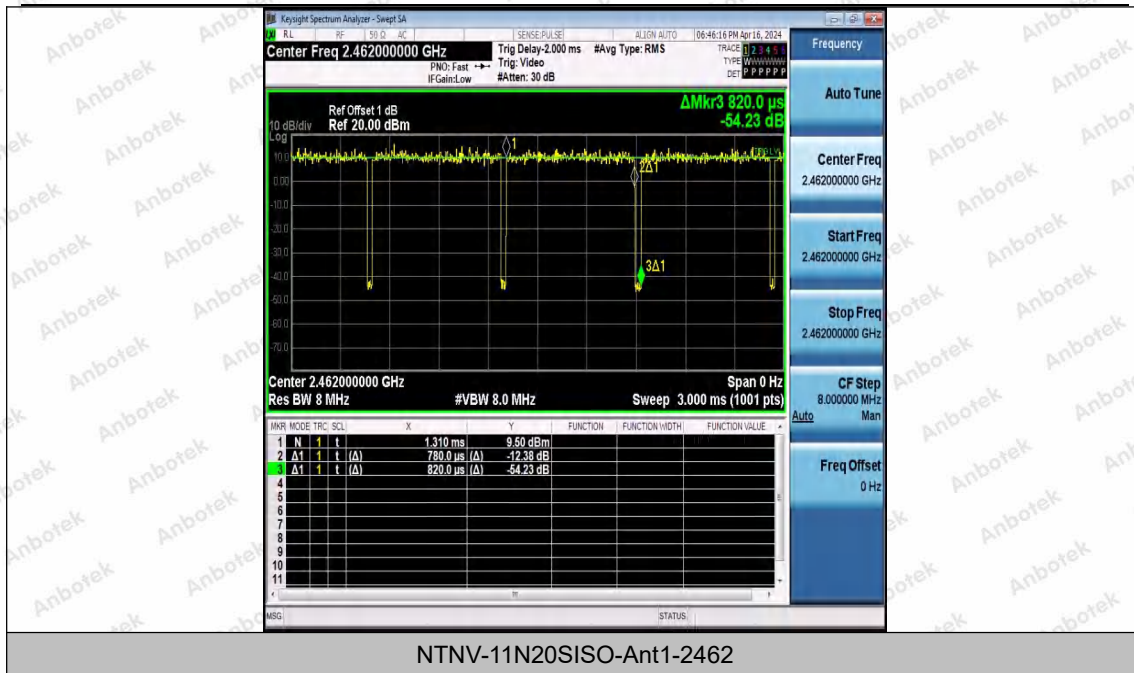
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