

Appendix Test Data

Report No:	18220WC20288502	Test Sample NO:	1-2-2
Start Test Date :	2022.12.19	Finish Test Date:	2022.12.26
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	40%
Pressure:	1012 hPa		

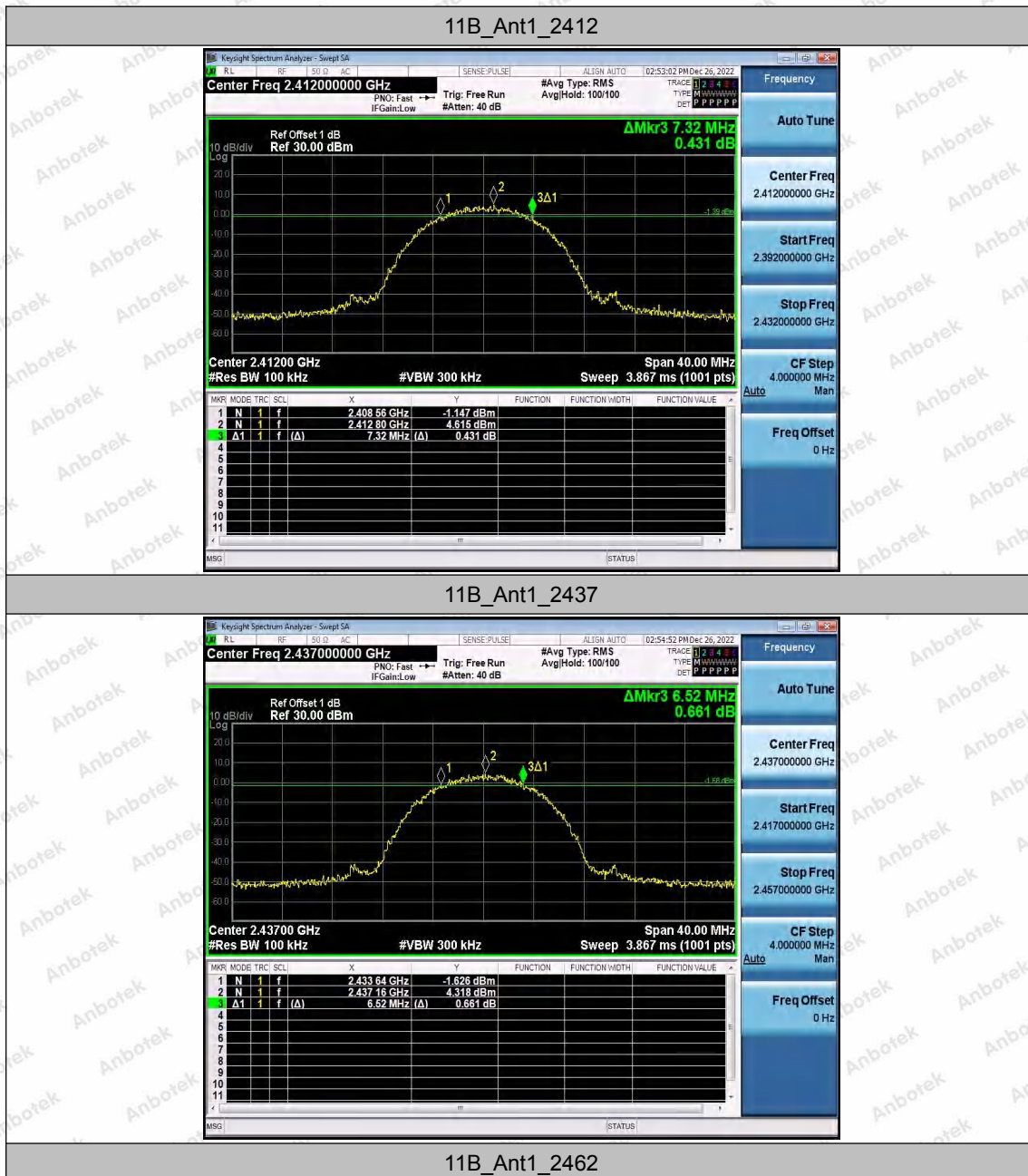
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.320	2408.560	2415.880	≥0.5	PASS
		2437	6.520	2433.640	2440.160	≥0.5	PASS
		2462	7.000	2458.480	2465.480	≥0.5	PASS
11G	Ant1	2412	15.120	2404.480	2419.600	≥0.5	PASS
		2437	15.160	2429.440	2444.600	≥0.5	PASS
		2462	15.120	2454.440	2469.560	≥0.5	PASS
11N20	Ant1	2412	15.960	2404.480	2420.440	≥0.5	PASS
		2437	15.680	2429.200	2444.880	≥0.5	PASS
		2462	16.200	2454.240	2470.440	≥0.5	PASS



Test Graphs



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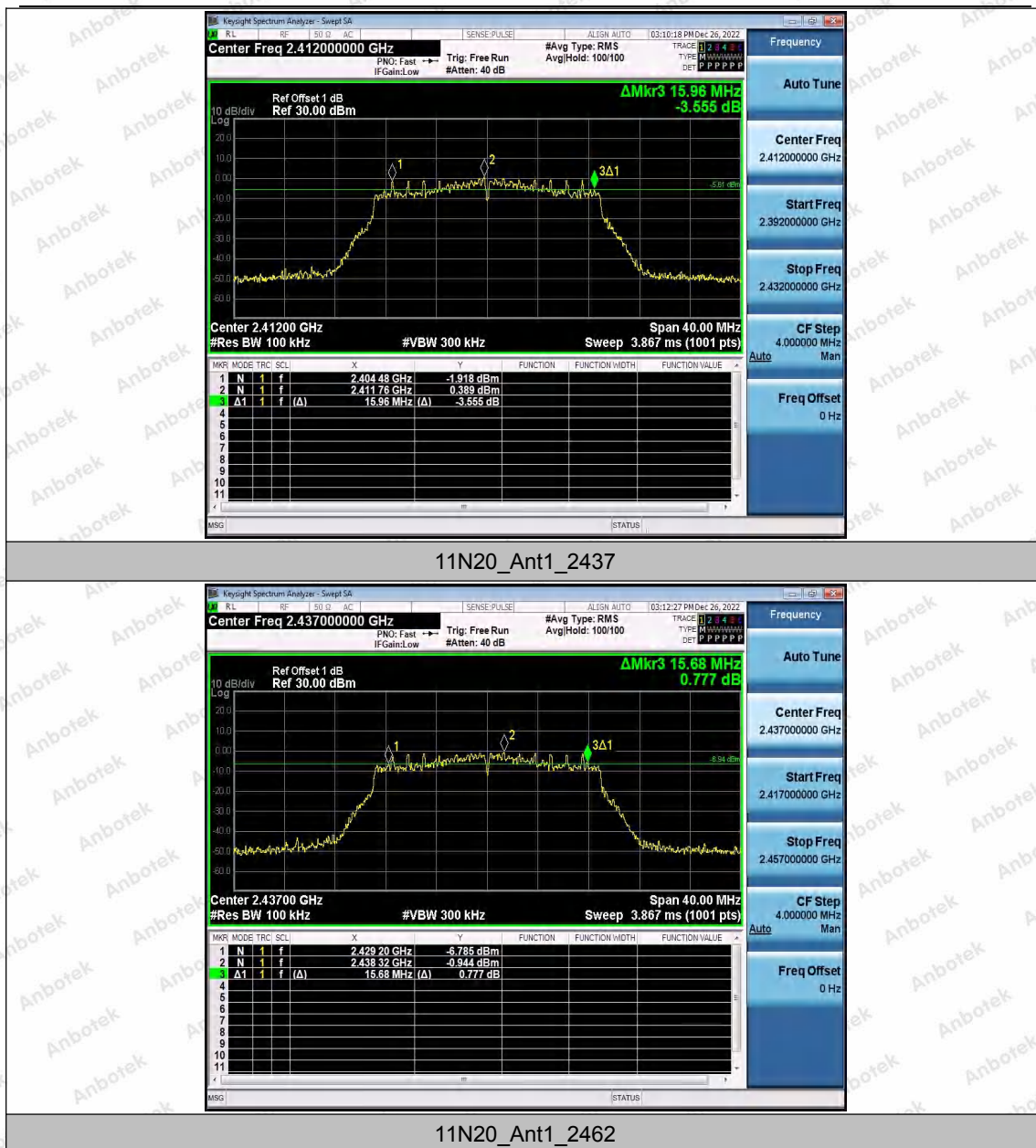
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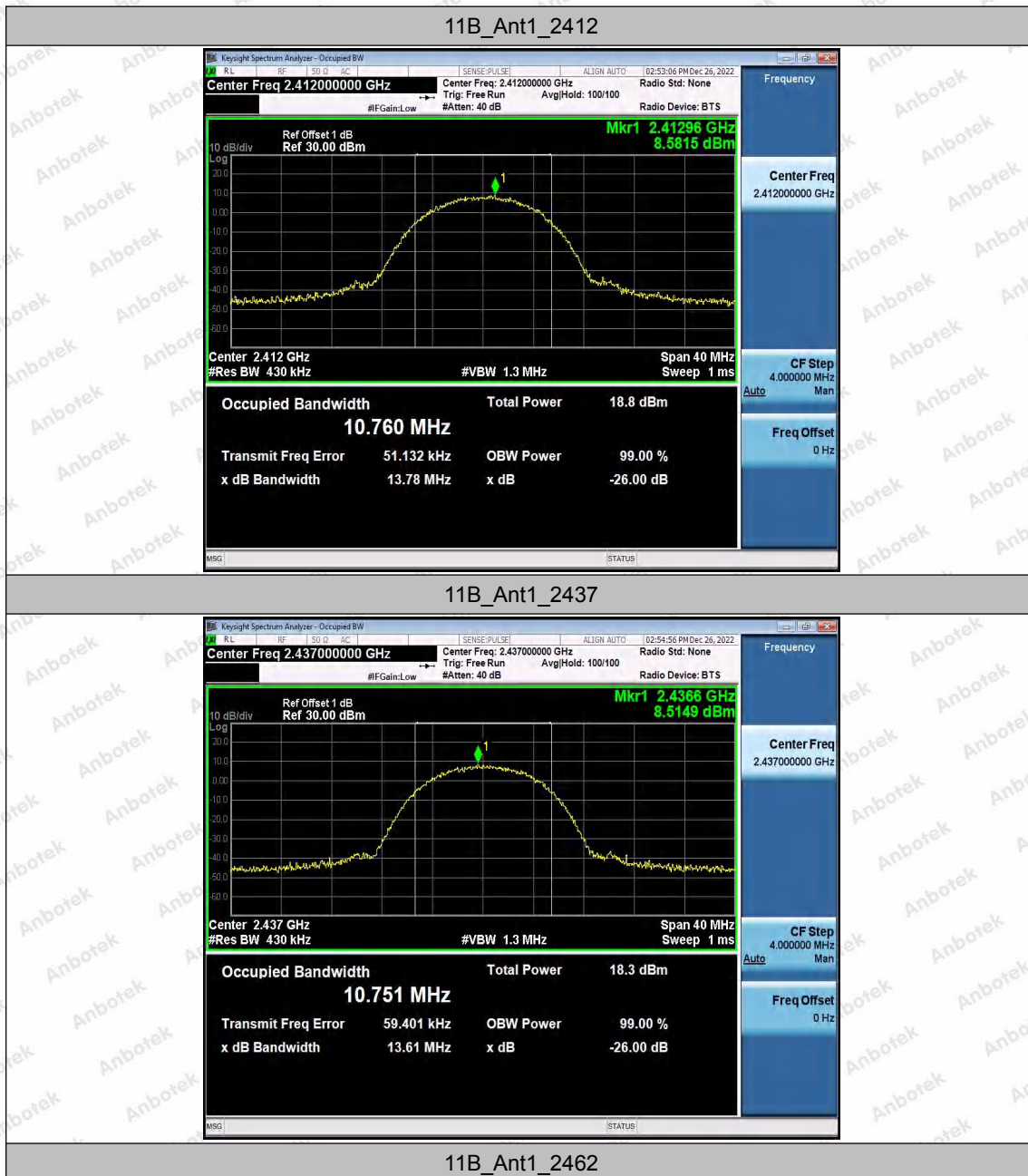
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.760	2406.6711	2417.4311	---	---
		2437	10.751	2431.6839	2442.4349	---	---
		2462	10.807	2456.6240	2467.4310	---	---
11G	Ant1	2412	16.497	2403.8447	2420.3417	---	---
		2437	16.502	2428.8388	2445.3408	---	---
		2462	16.389	2453.8545	2470.2435	---	---
11N20	Ant1	2412	17.660	2403.2552	2420.9152	---	---
		2437	17.689	2428.1892	2445.8782	---	---
		2462	17.619	2453.2125	2470.8315	---	---



Test Graphs



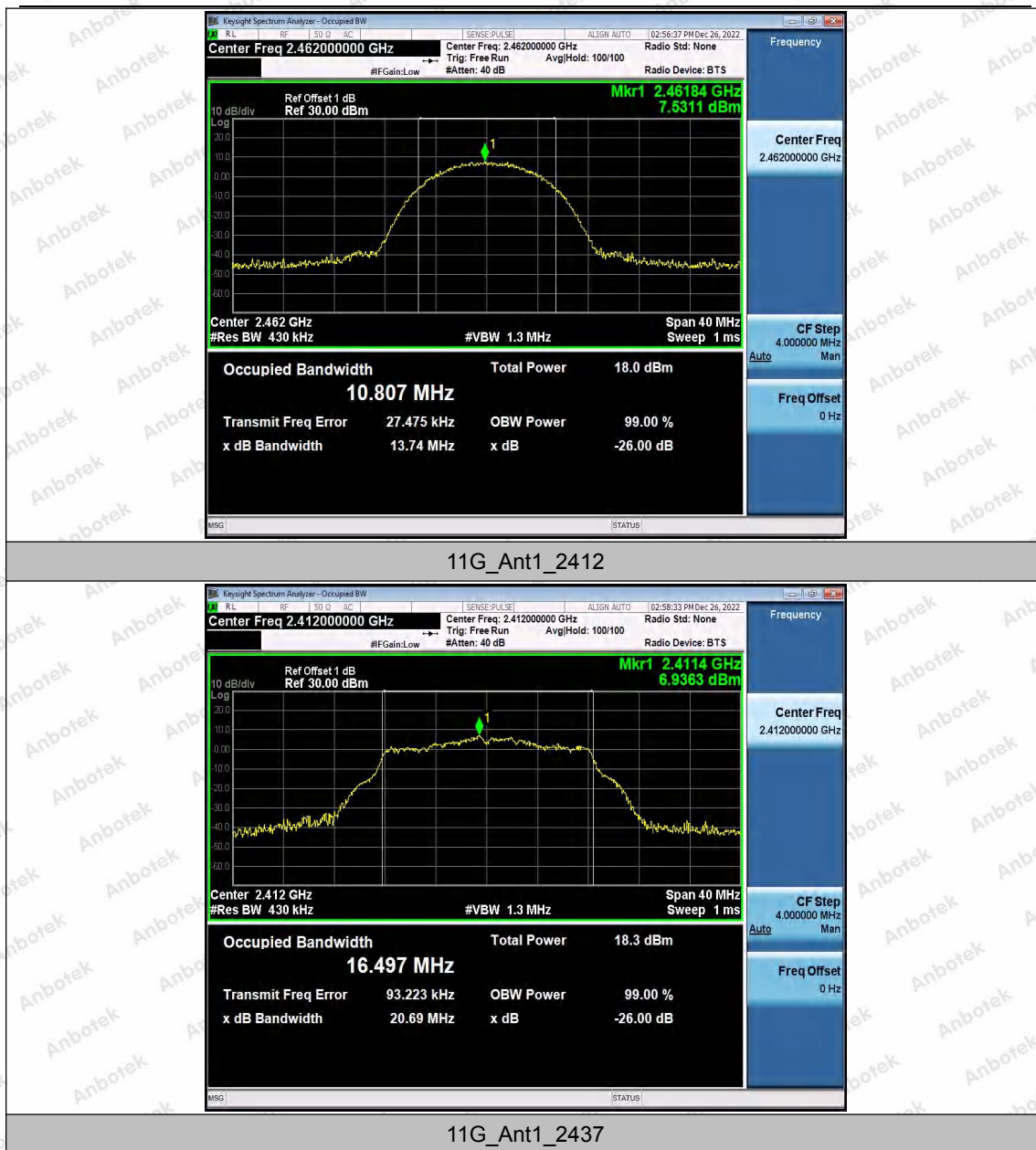
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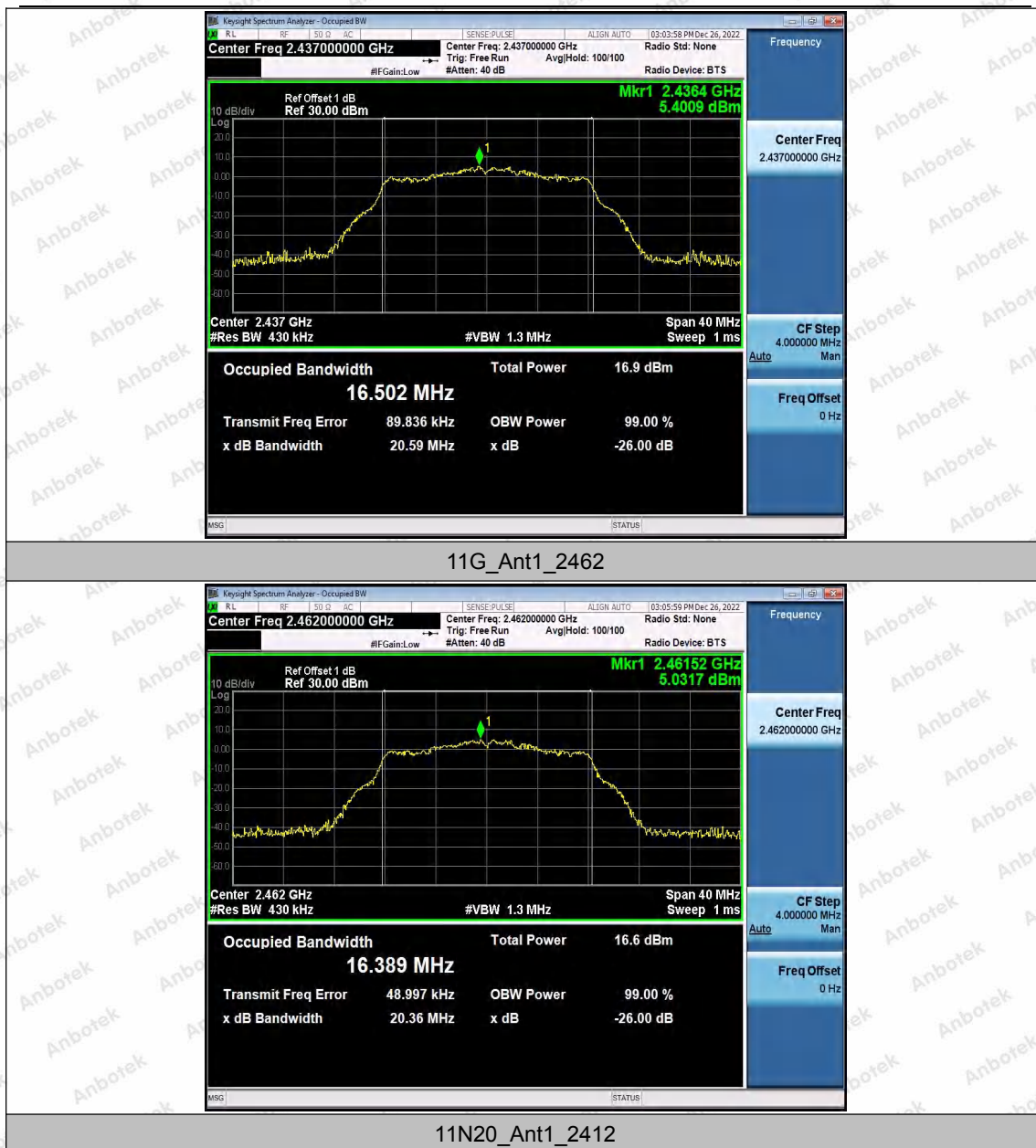
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	17.07	≤30.00
		2437	16.72	≤30.00
		2462	16.03	≤30.00
11G	Ant1	2412	17.95	≤30.00
		2437	17.75	≤30.00
		2462	17.59	≤30.00
11N20	Ant1	2412	17.68	≤30.00
		2437	17.22	≤30.00
		2462	17.08	≤30.00



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.34	≤8.00	PASS
		2437	-9.81	≤8.00	PASS
		2462	-9.88	≤8.00	PASS
11G	Ant1	2412	-13.28	≤8.00	PASS
		2437	-15.01	≤8.00	PASS
		2462	-14.99	≤8.00	PASS
11N20	Ant1	2412	-13.72	≤8.00	PASS
		2437	-13.88	≤8.00	PASS
		2462	-13.7	≤8.00	PASS

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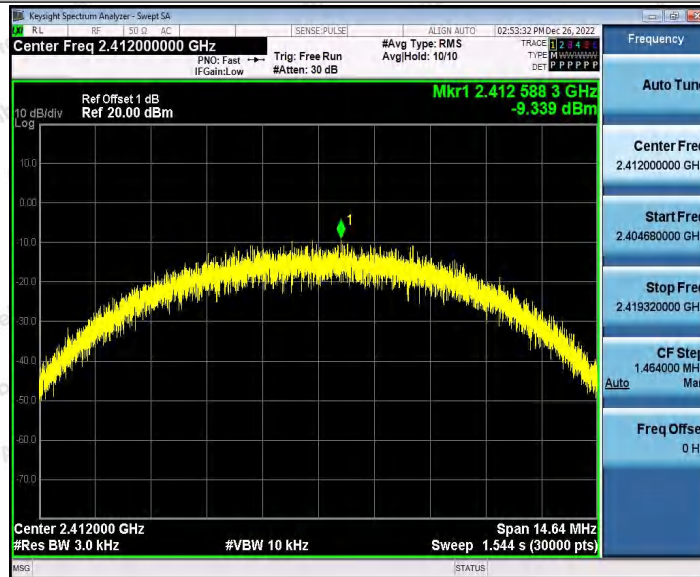


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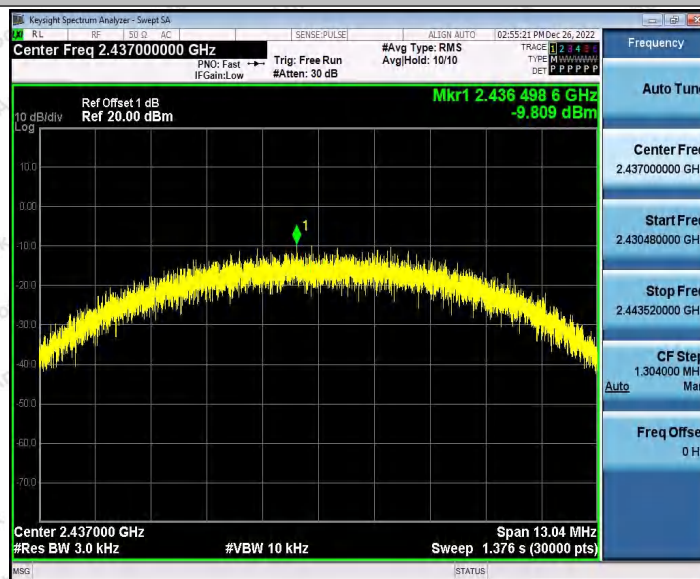


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

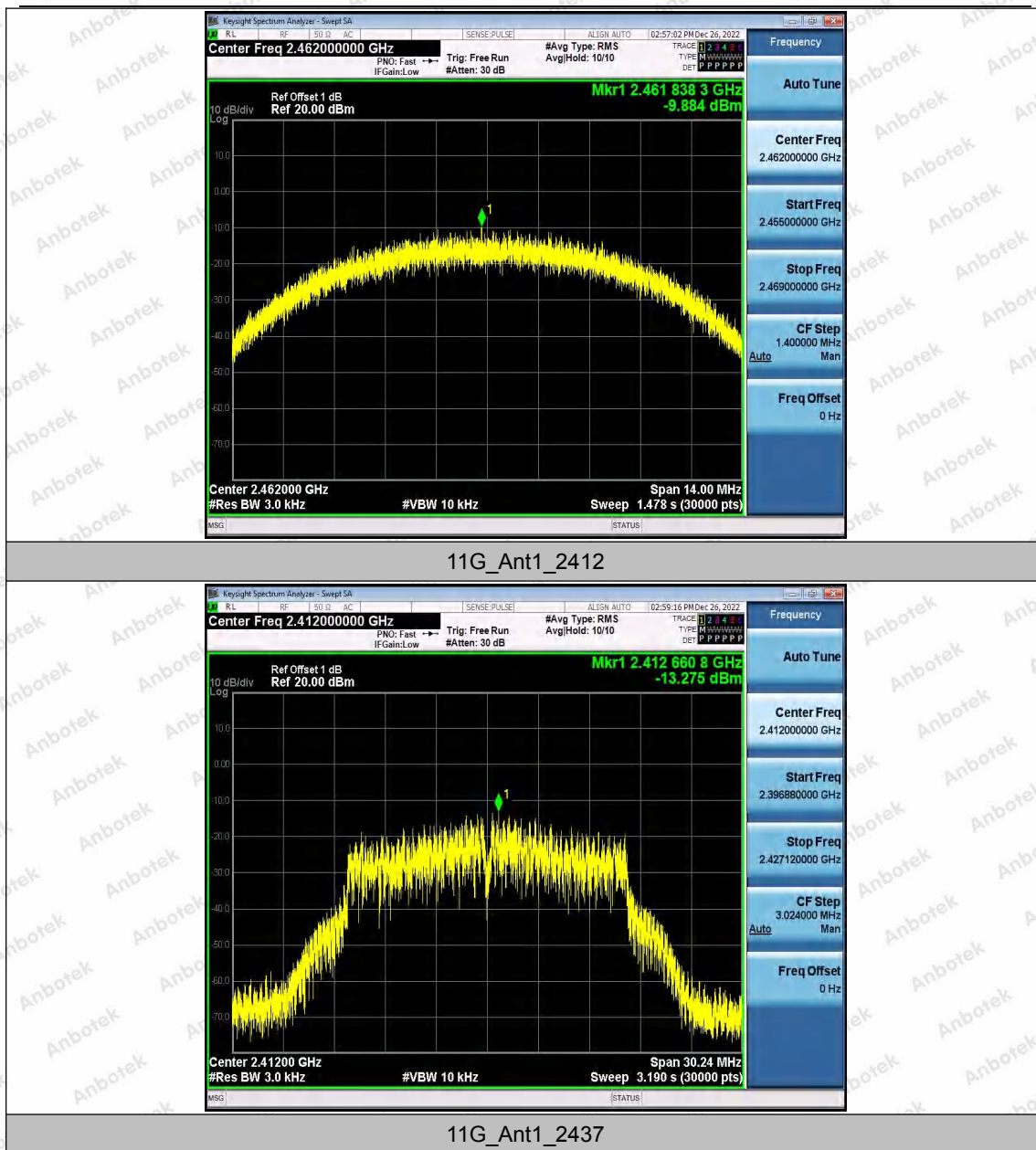
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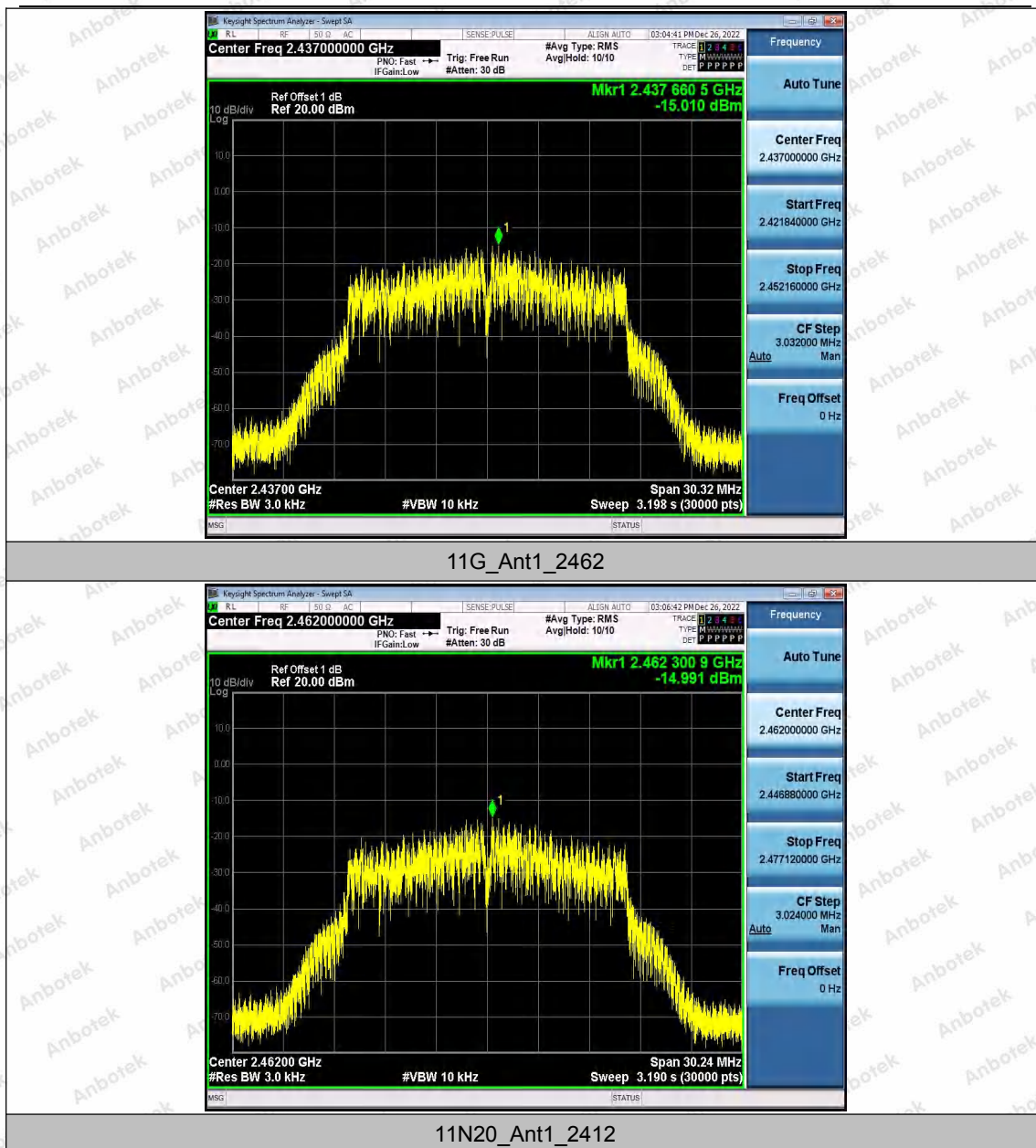
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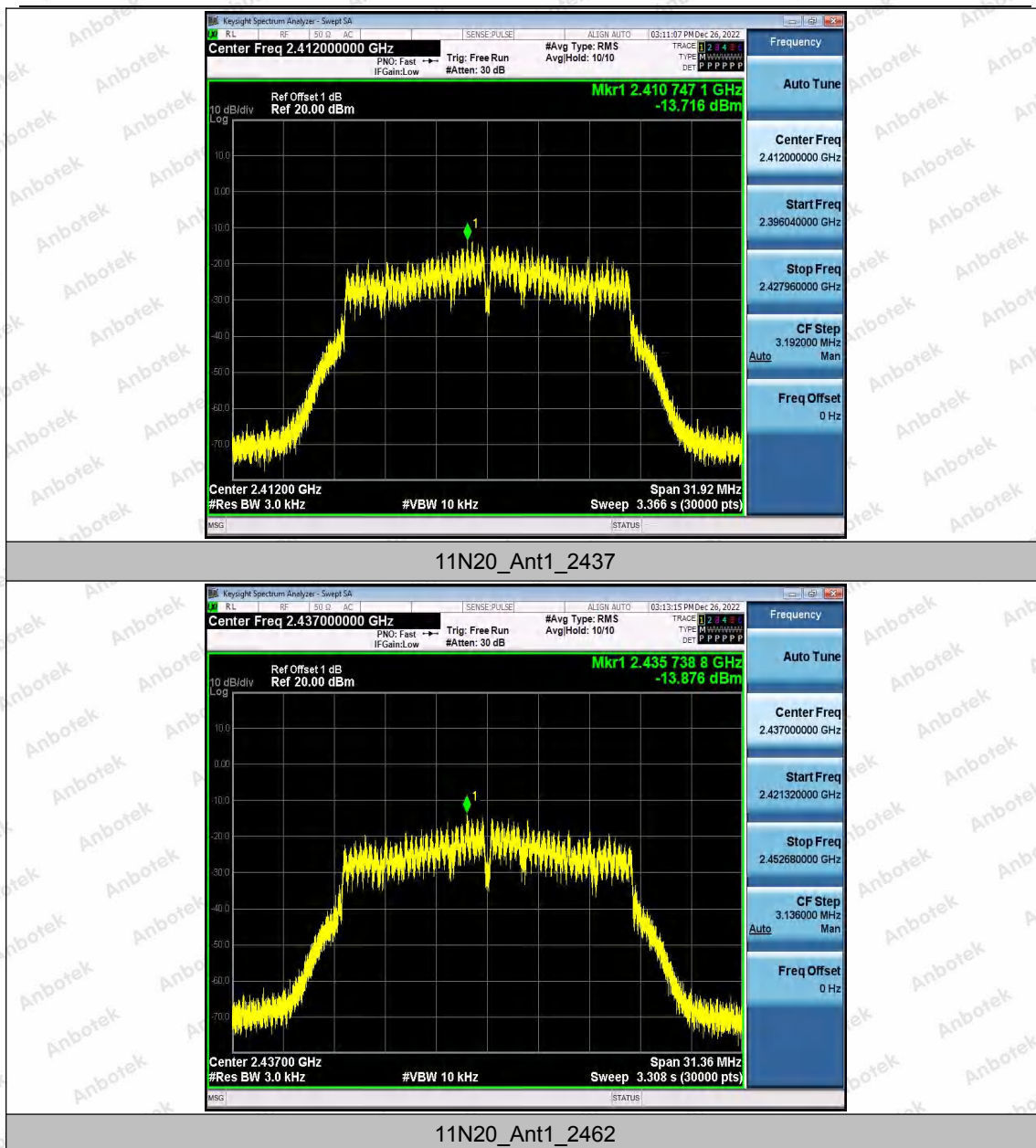
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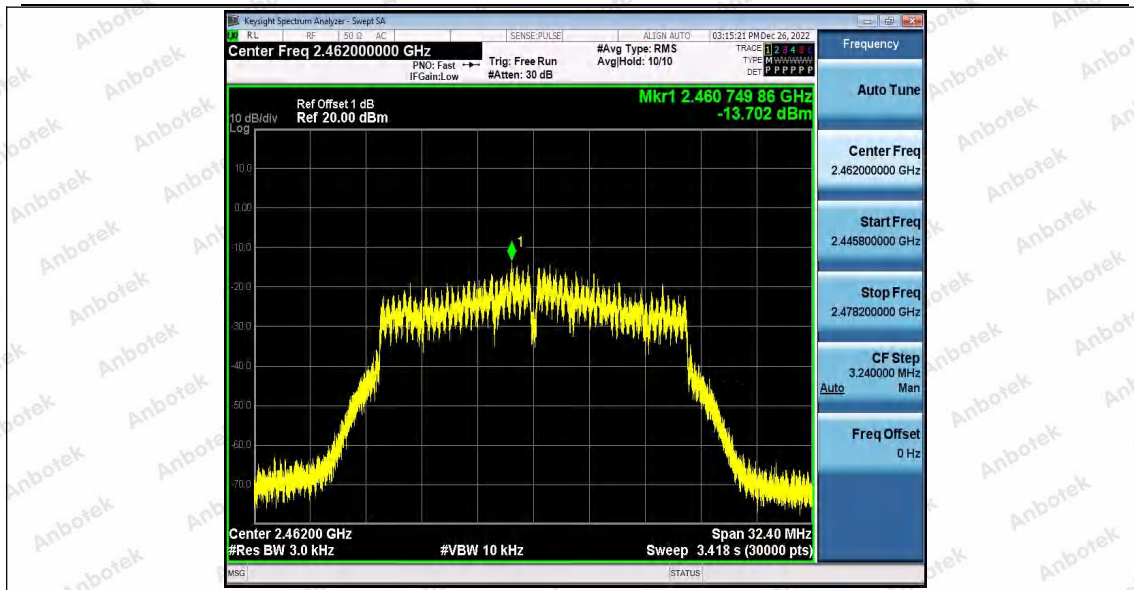
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Appendix E: Band edge measurements

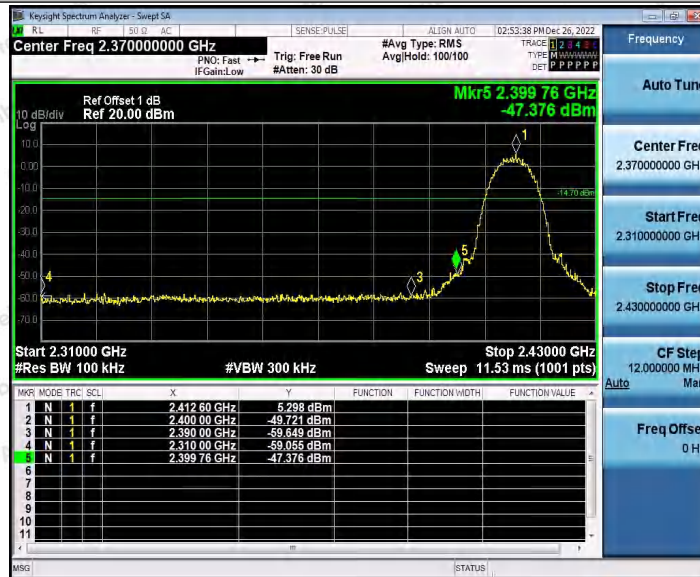
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.30	-47.38	≤-14.7	PASS
		High	2462	2.65	-56.66	≤-17.35	PASS
11G	Ant1	Low	2412	2.00	-40.73	≤-18	PASS
		High	2462	0.10	-53.17	≤-19.9	PASS
11N20	Ant1	Low	2412	-0.05	-45.59	≤-20.05	PASS
		High	2462	0.15	-54.06	≤-19.85	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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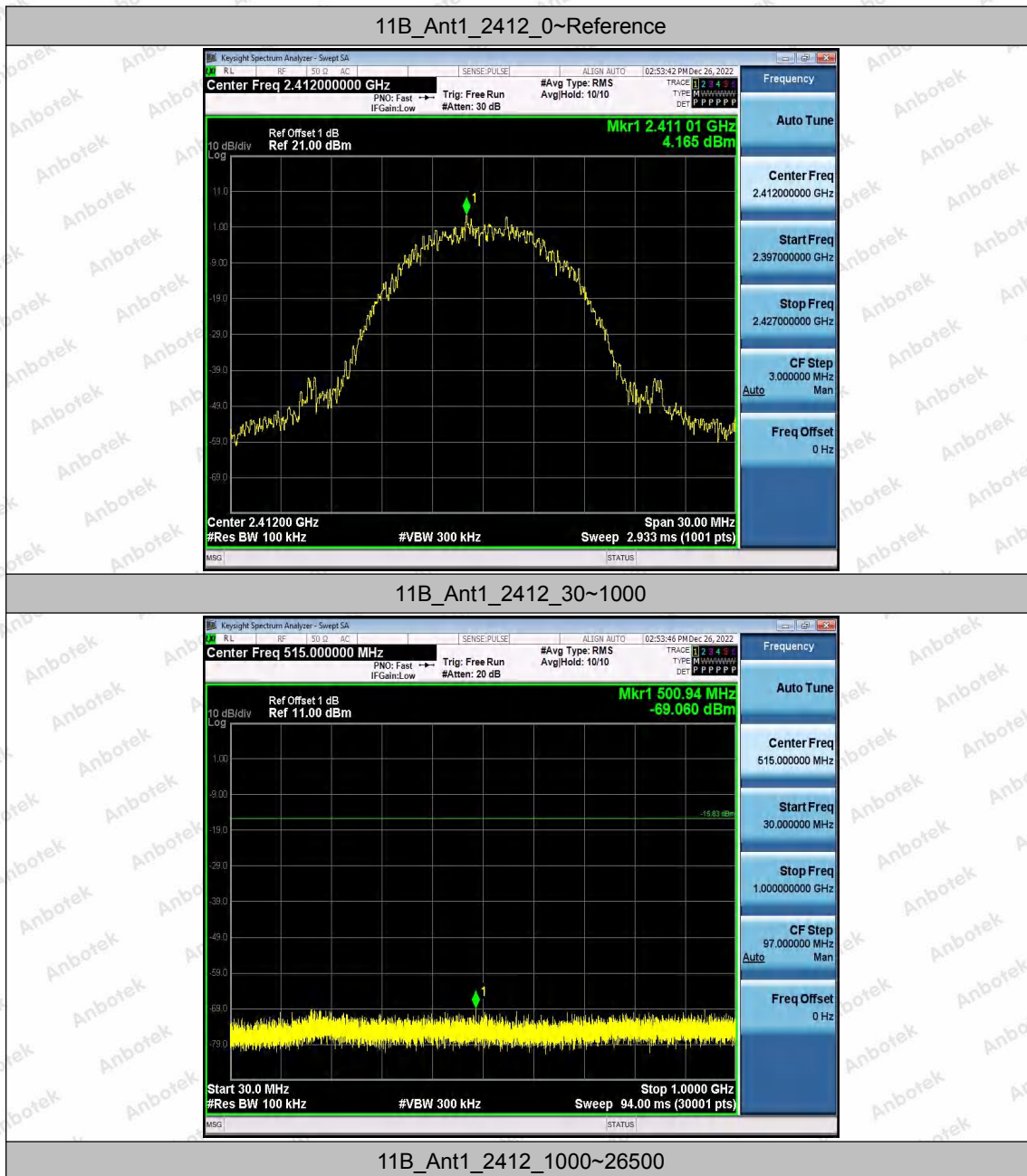
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-69.06	≤-15.83	PASS
			1000~26500	4.17	-53.86	≤-15.83	PASS
		2437	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-68.35	≤-16.63	PASS
			1000~26500	3.37	-53.18	≤-16.63	PASS
		2462	Reference	1.72	1.72	---	PASS
			30~1000	1.72	-68.32	≤-18.28	PASS
			1000~26500	1.72	-52.72	≤-18.28	PASS
11G	Ant1	2412	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-68.81	≤-18.73	PASS
			1000~26500	1.27	-53.38	≤-18.73	PASS
		2437	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-69.36	≤-20.15	PASS
			1000~26500	-0.15	-53.23	≤-20.15	PASS
		2462	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-68.89	≤-20.19	PASS
			1000~26500	-0.19	-46.5	≤-20.19	PASS
11N20	Ant1	2412	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-68.56	≤-20.39	PASS
			1000~26500	-0.39	-52.88	≤-20.39	PASS
		2437	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-68.46	≤-21.49	PASS
			1000~26500	-1.49	-53.56	≤-21.49	PASS
		2462	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-68.83	≤-20.98	PASS
			1000~26500	-0.98	-53.03	≤-20.98	PASS



Test Graphs



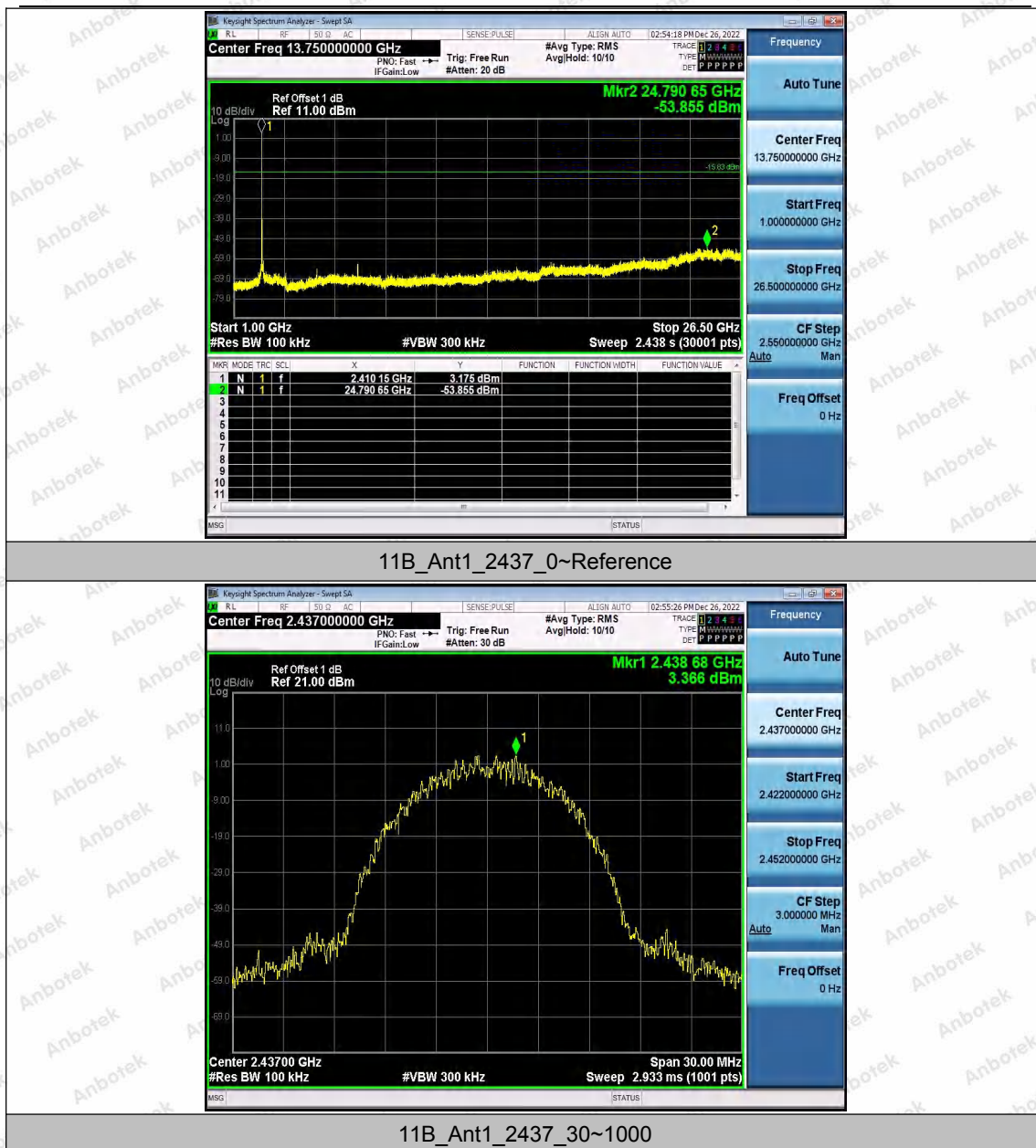
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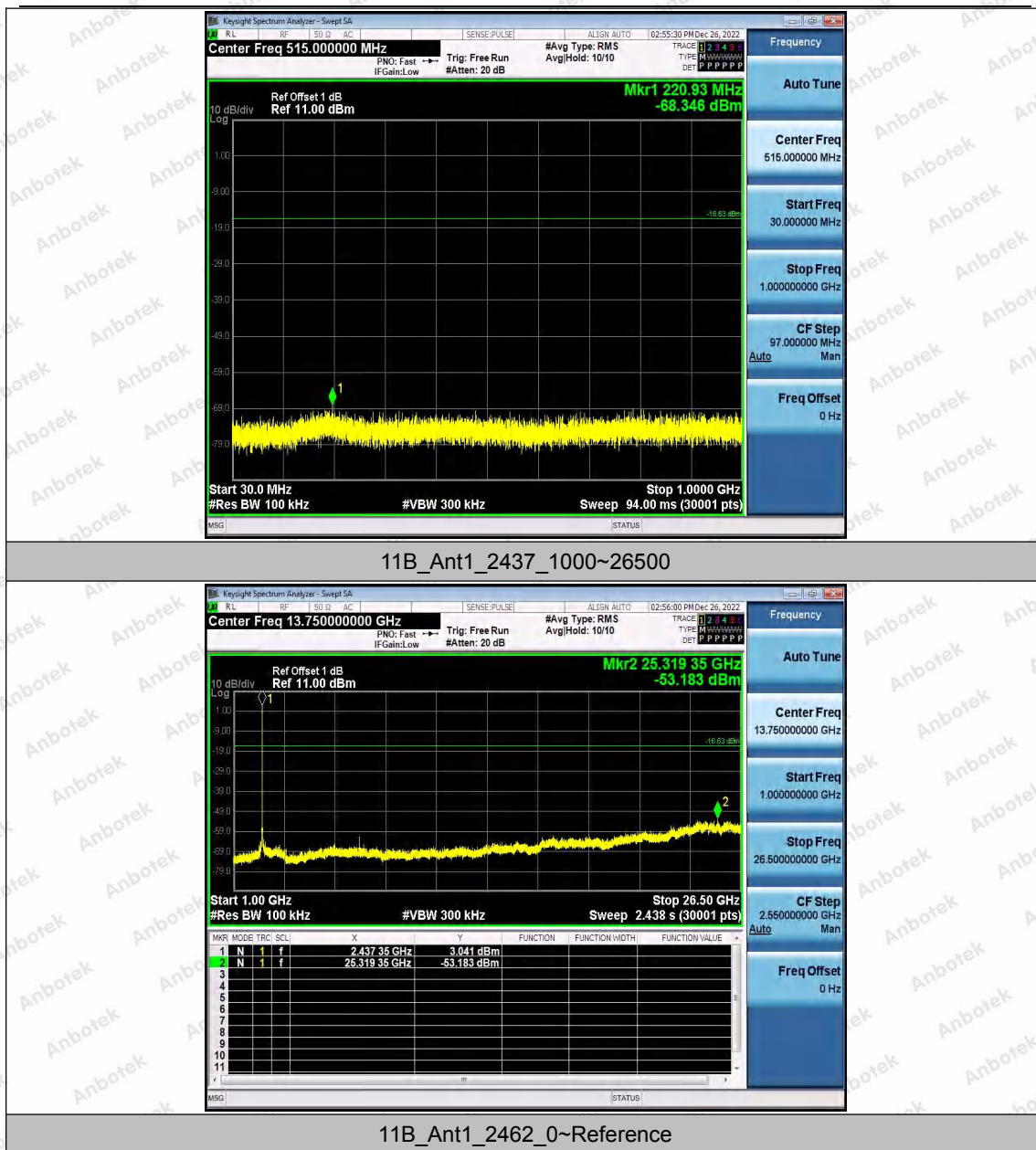
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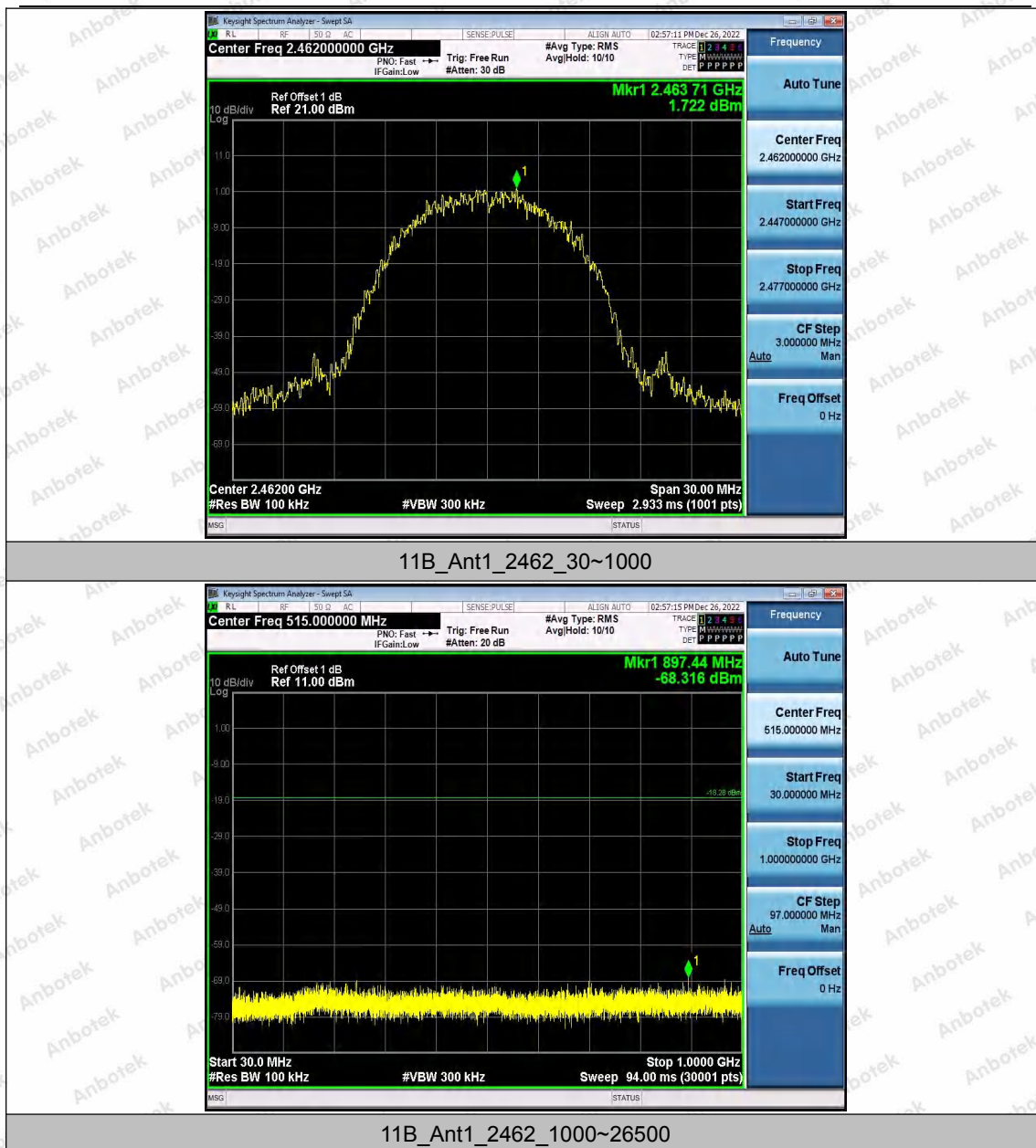
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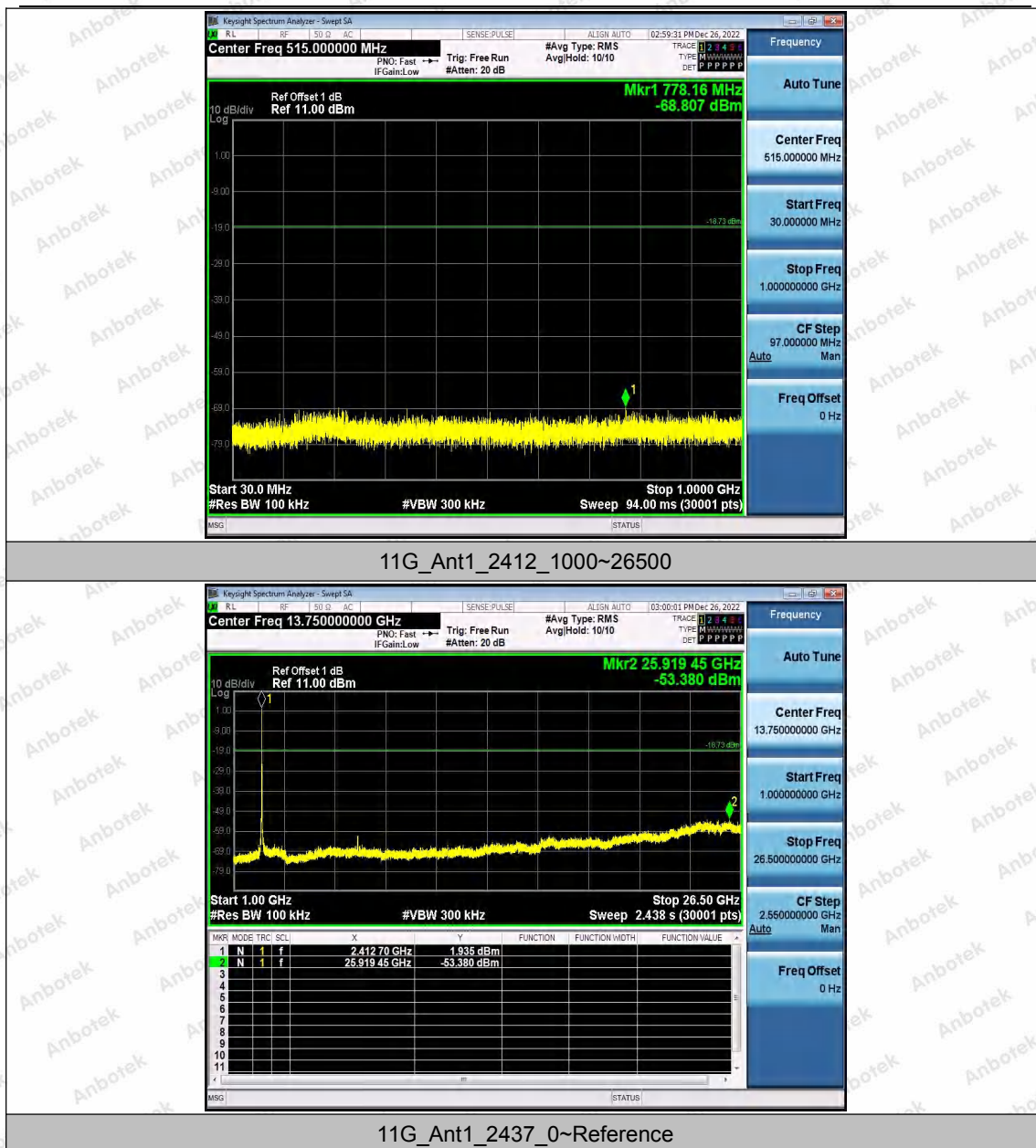
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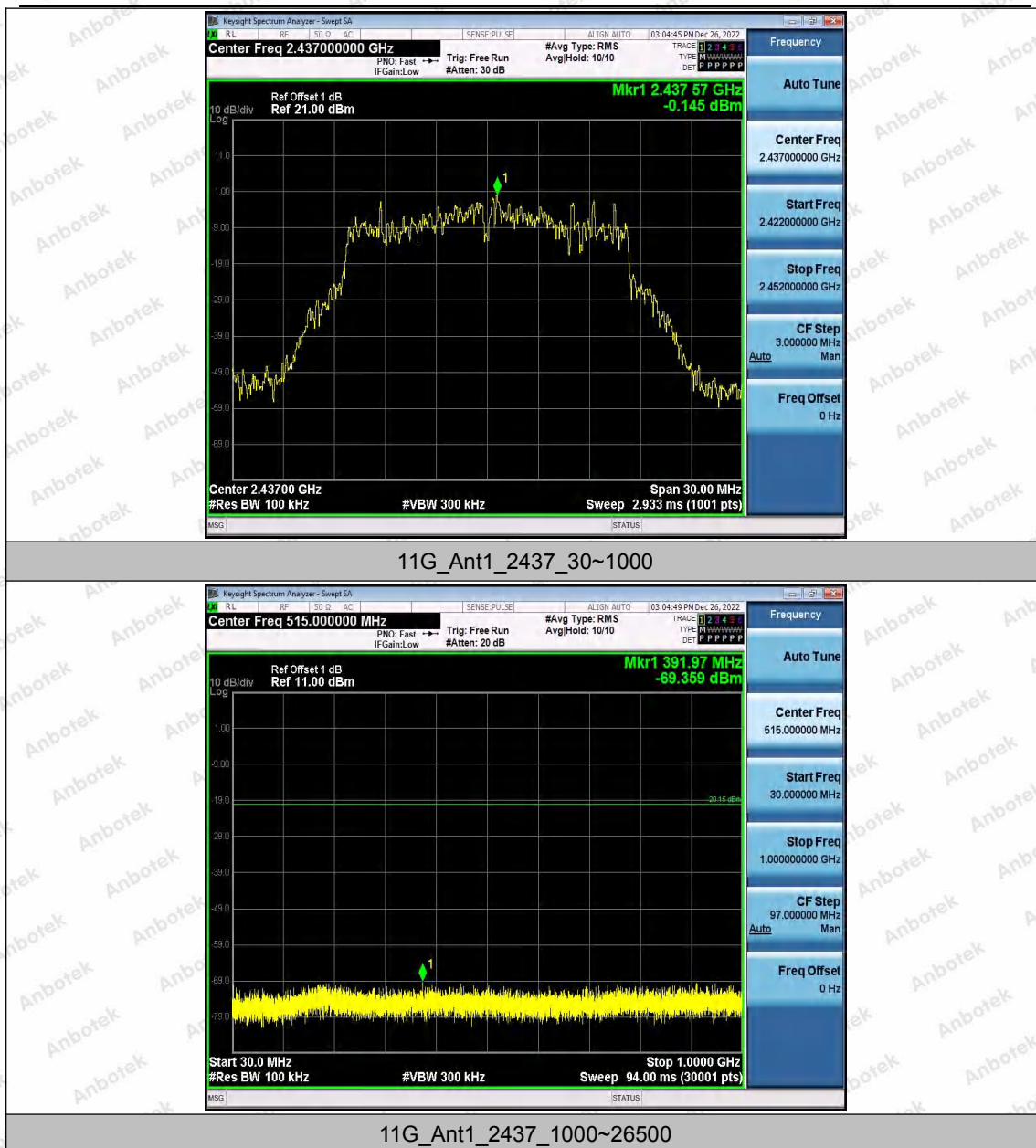
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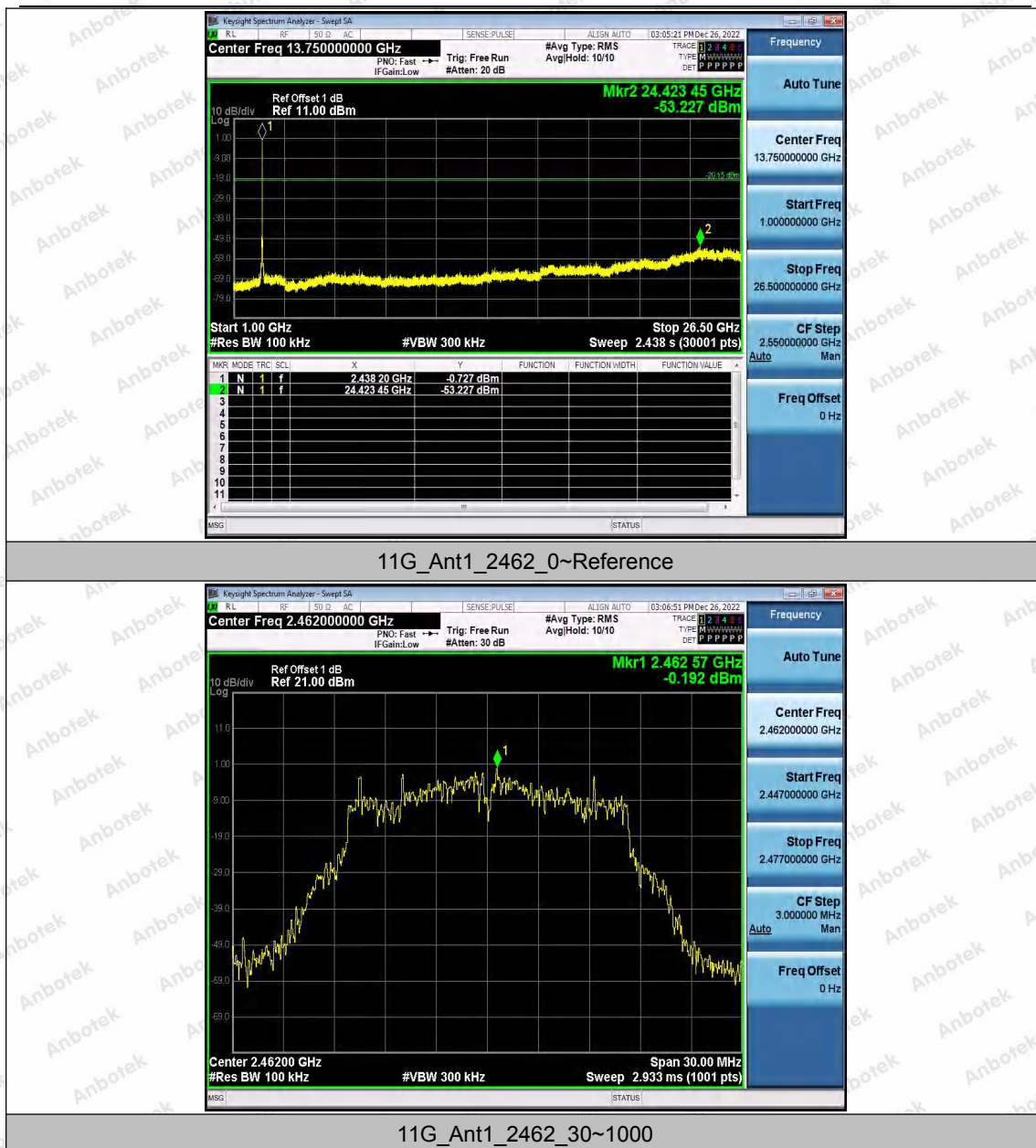
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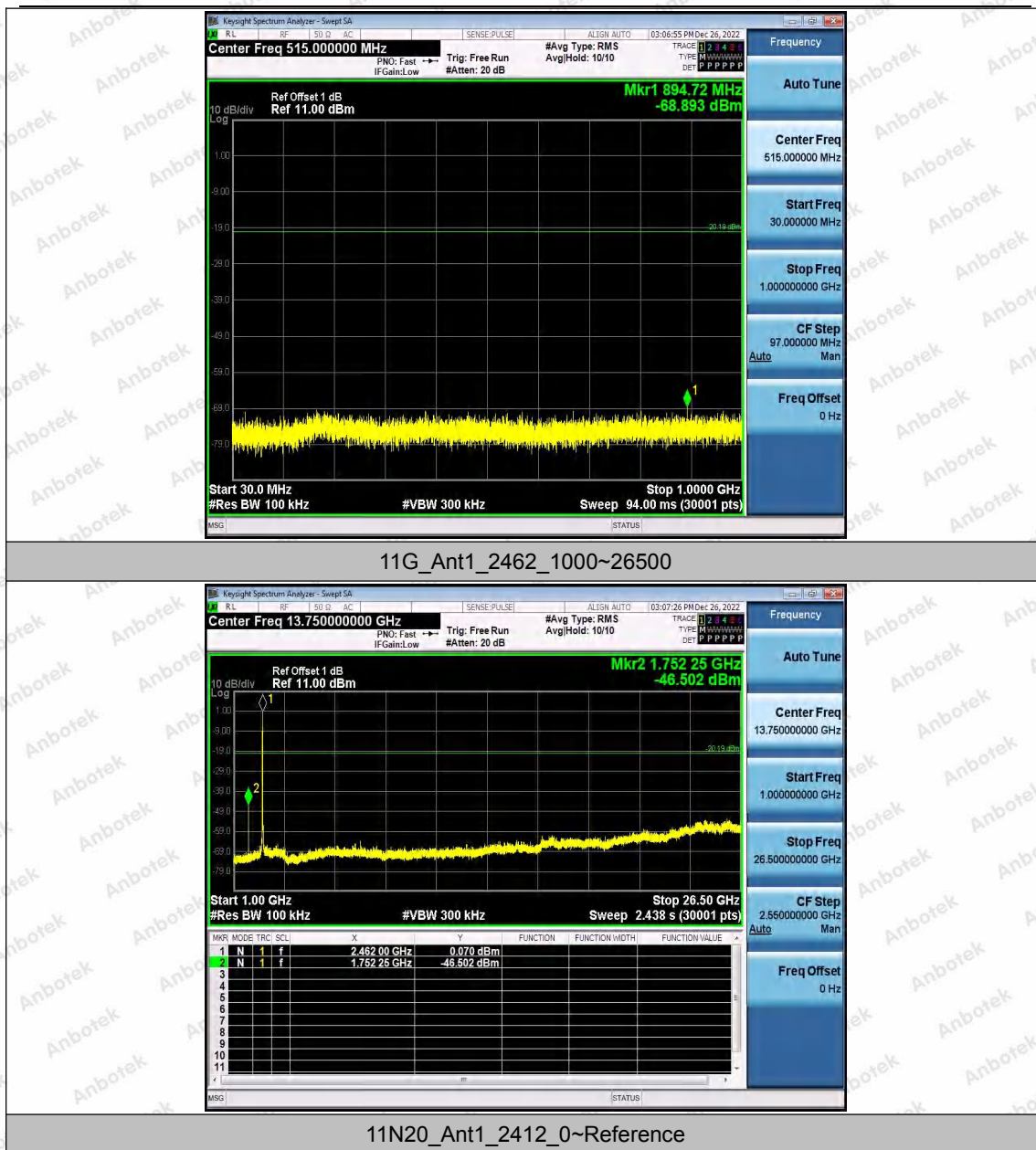
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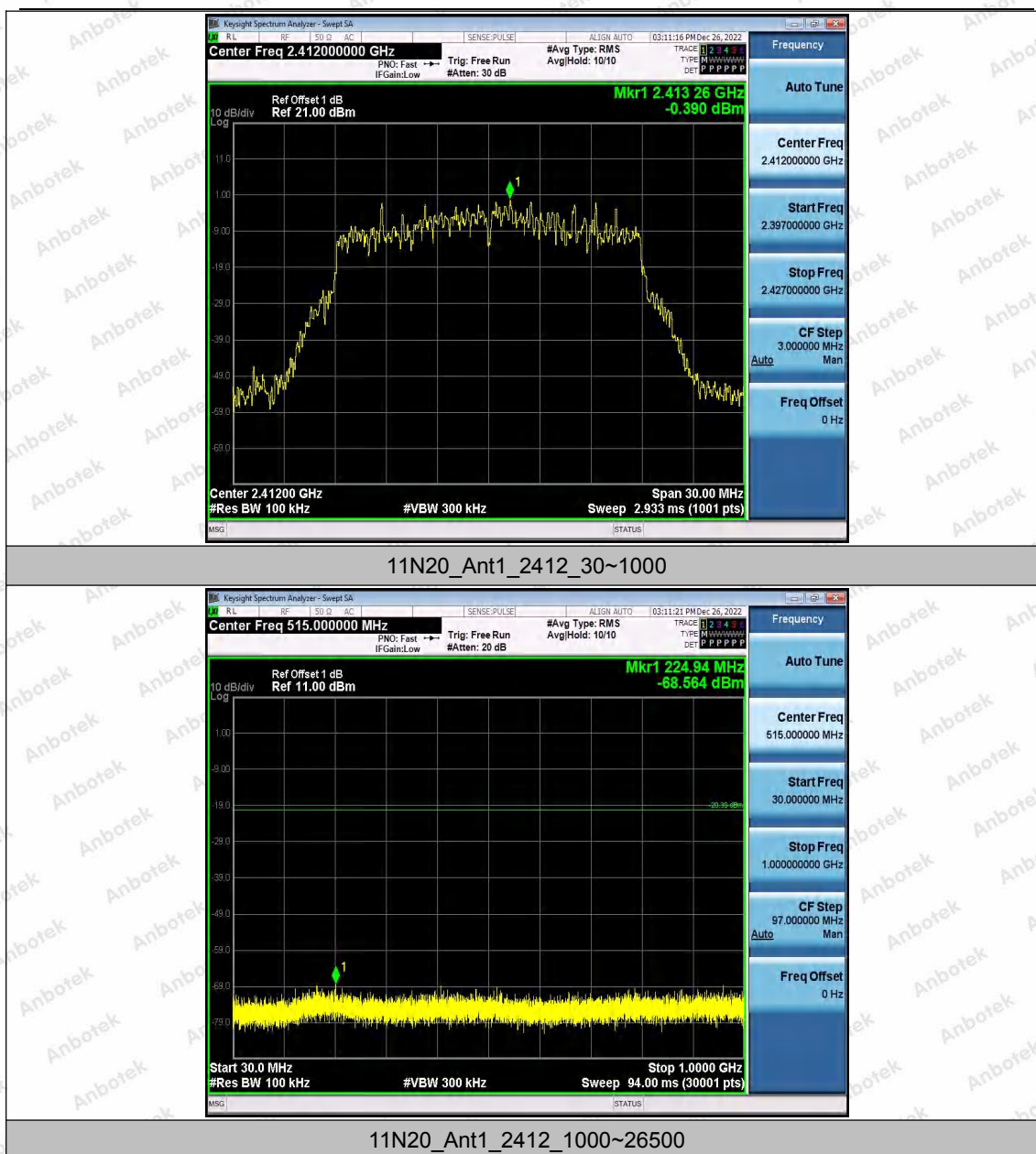
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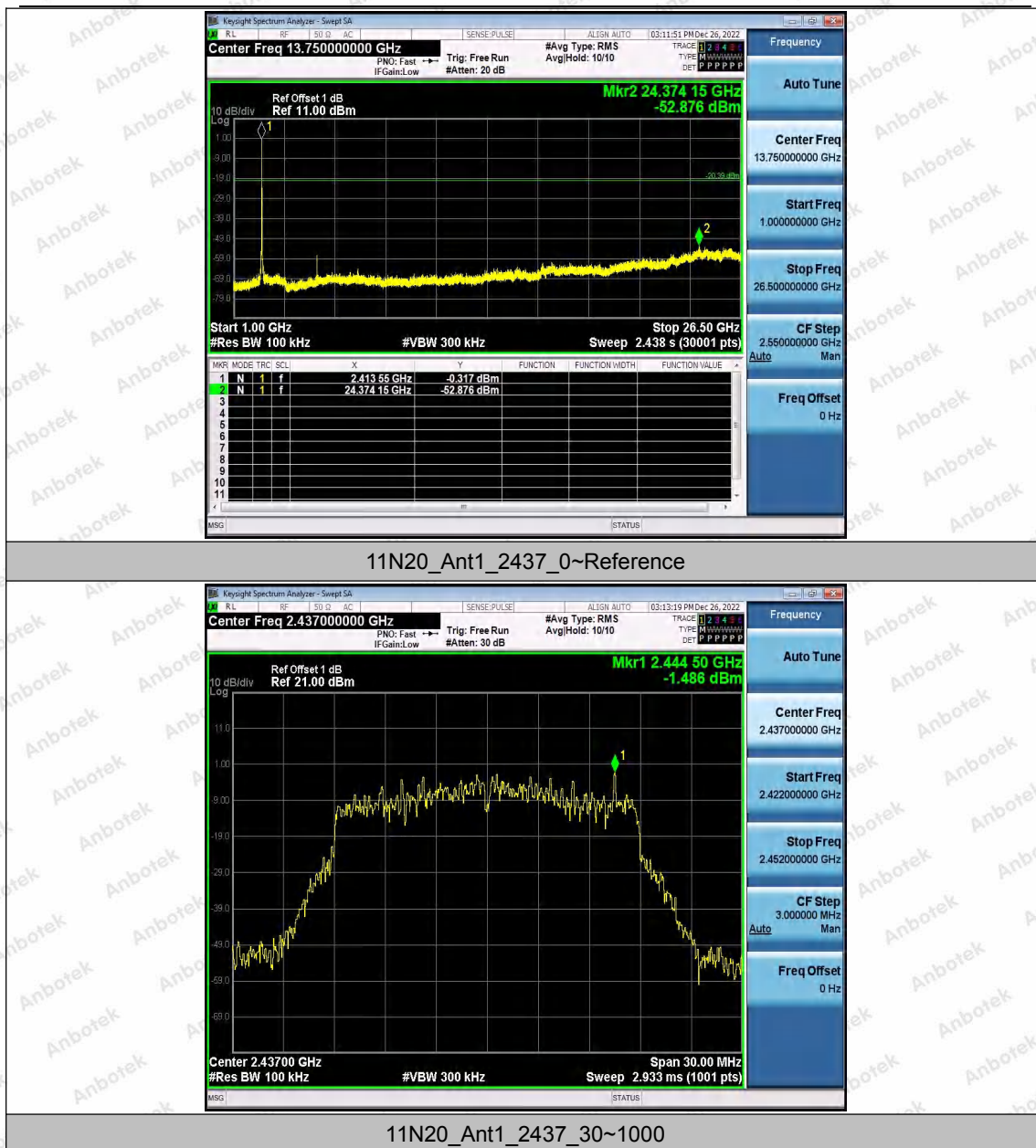
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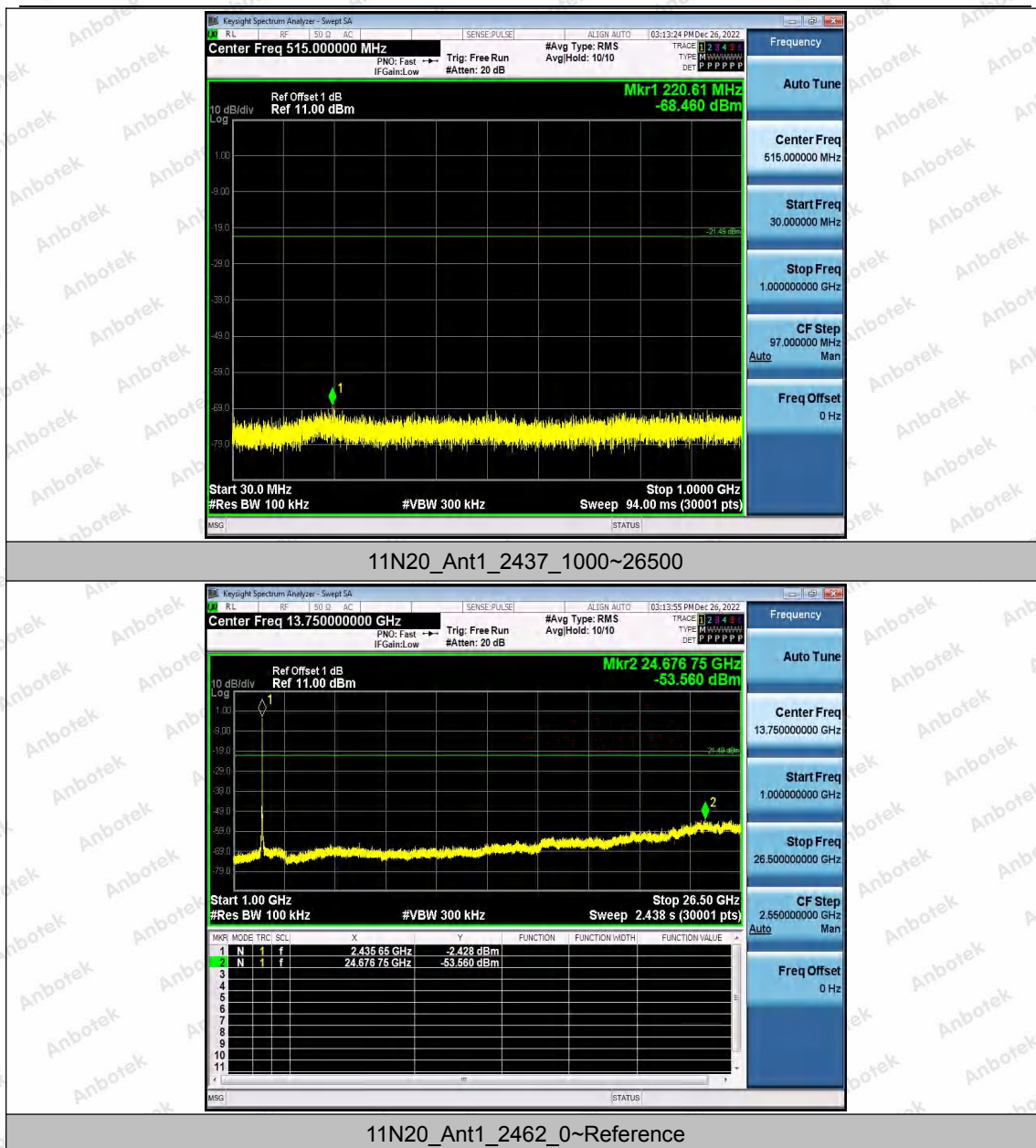
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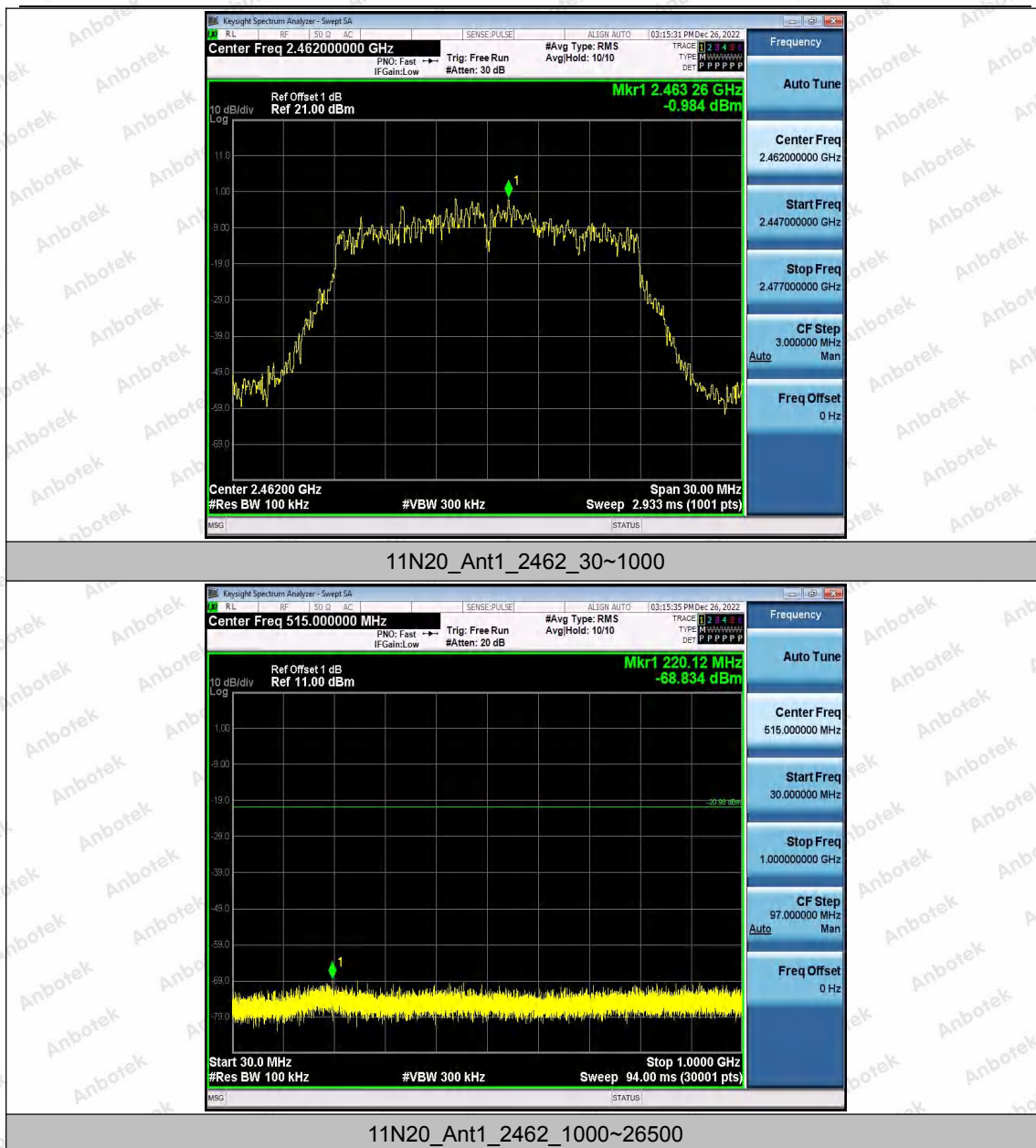
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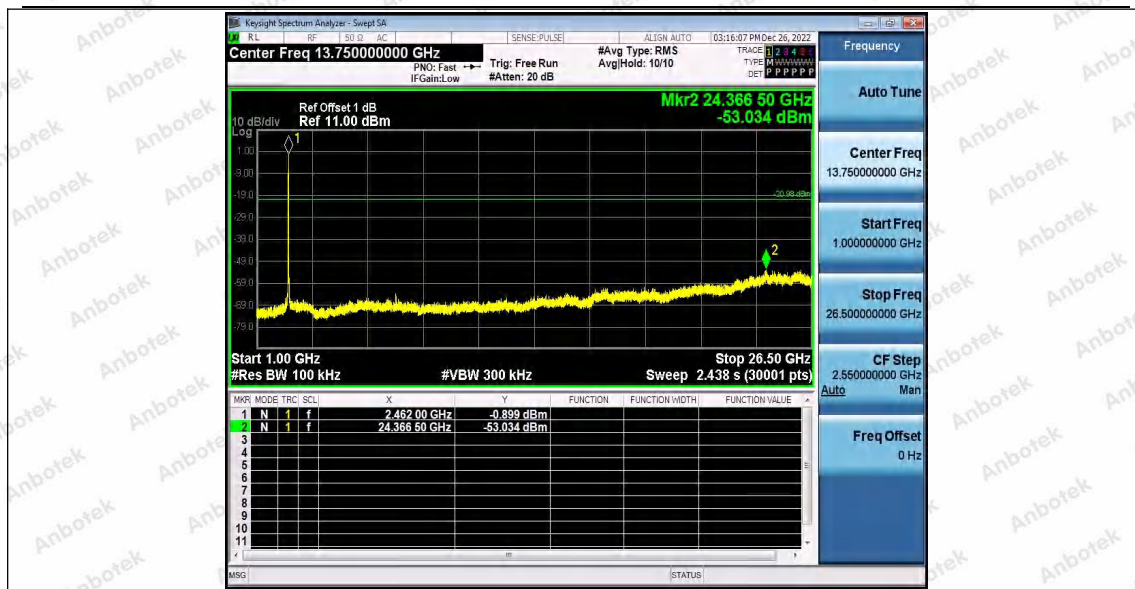
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Appendix G: Duty Cycle

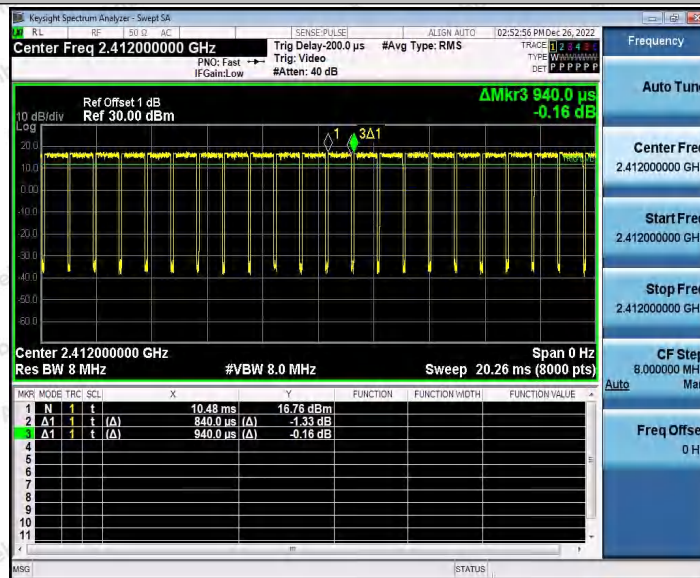
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	0.84	0.94	89.36	0.49
		2437	0.84	0.94	89.36	0.49
		2462	0.84	0.93	90.32	0.44
11G	Ant1	2412	0.17	0.28	60.71	2.17
		2437	0.18	0.28	64.29	1.92
		2462	0.17	0.28	60.71	2.17
11N20	Ant1	2412	0.17	0.27	62.96	2.01
		2437	0.17	0.27	62.96	2.01
		2462	0.16	0.26	61.54	2.11

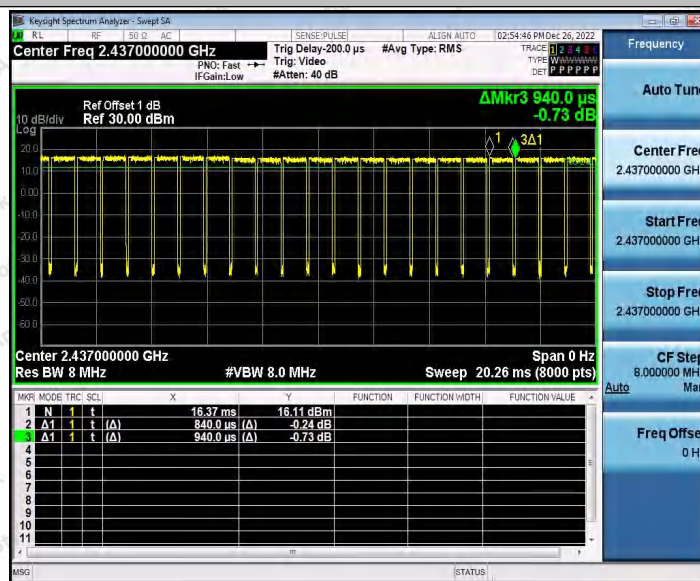


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

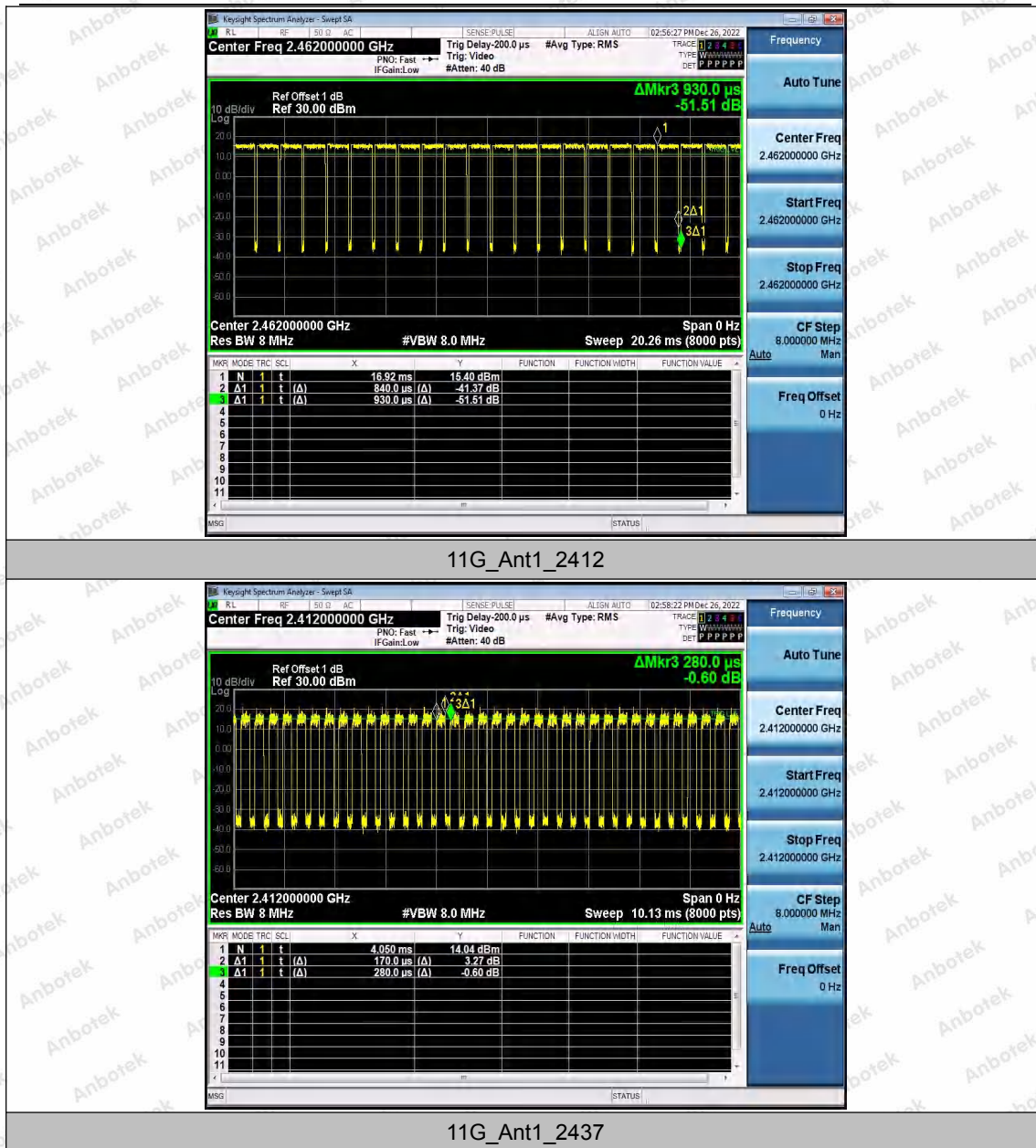
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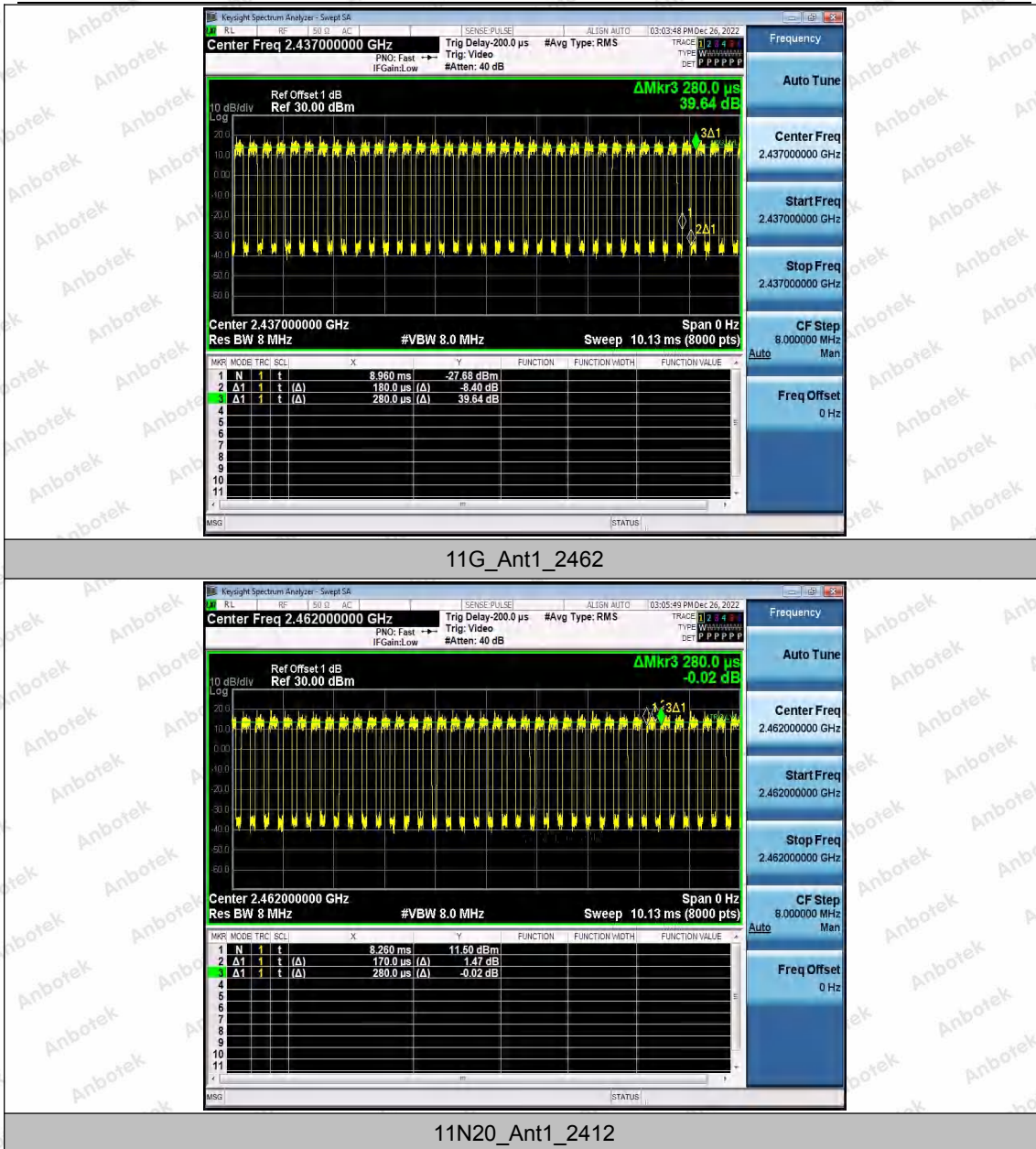
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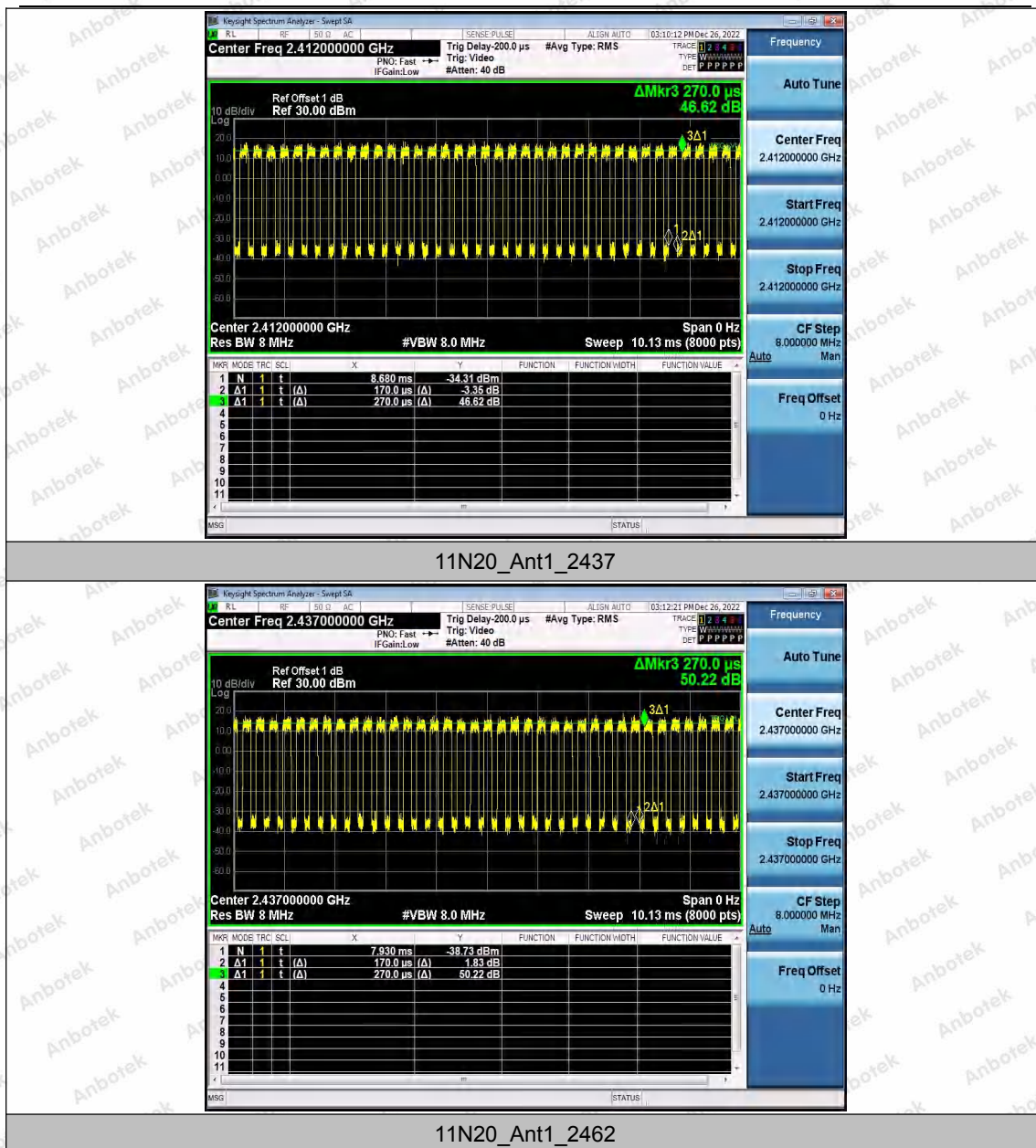
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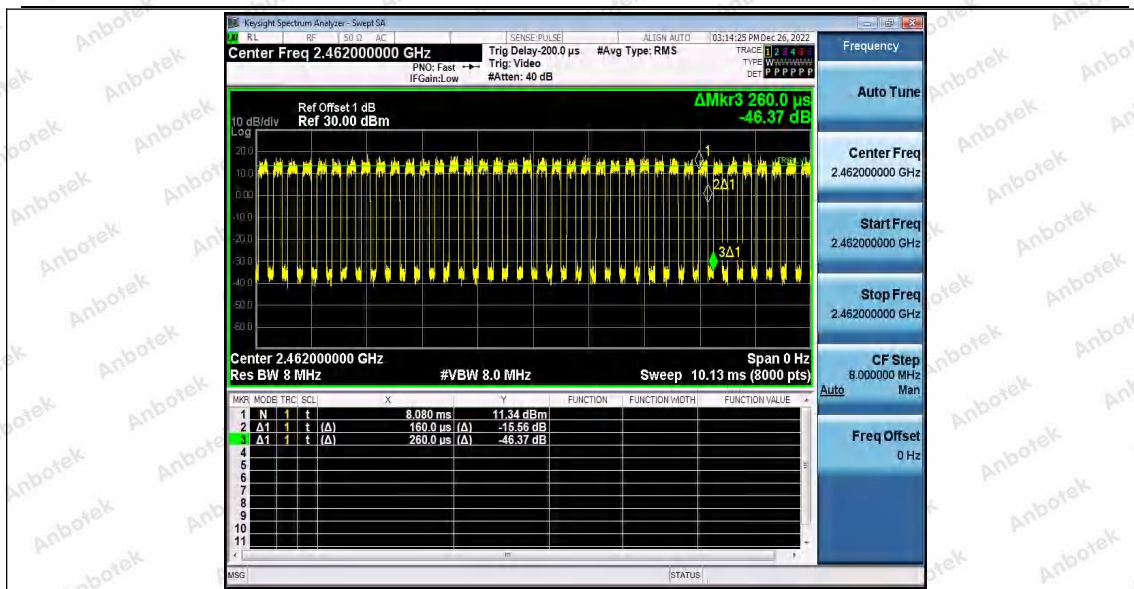
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