

Appendix Test Data

Report No.:	1812C50126412502	Test Sample No.:	1-2-2
Start Test Date:	2025.04.15	Finish Test Date:	2025.04.15
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.5°C	Relative Humidity:	50%
Pressure:	101kPa		

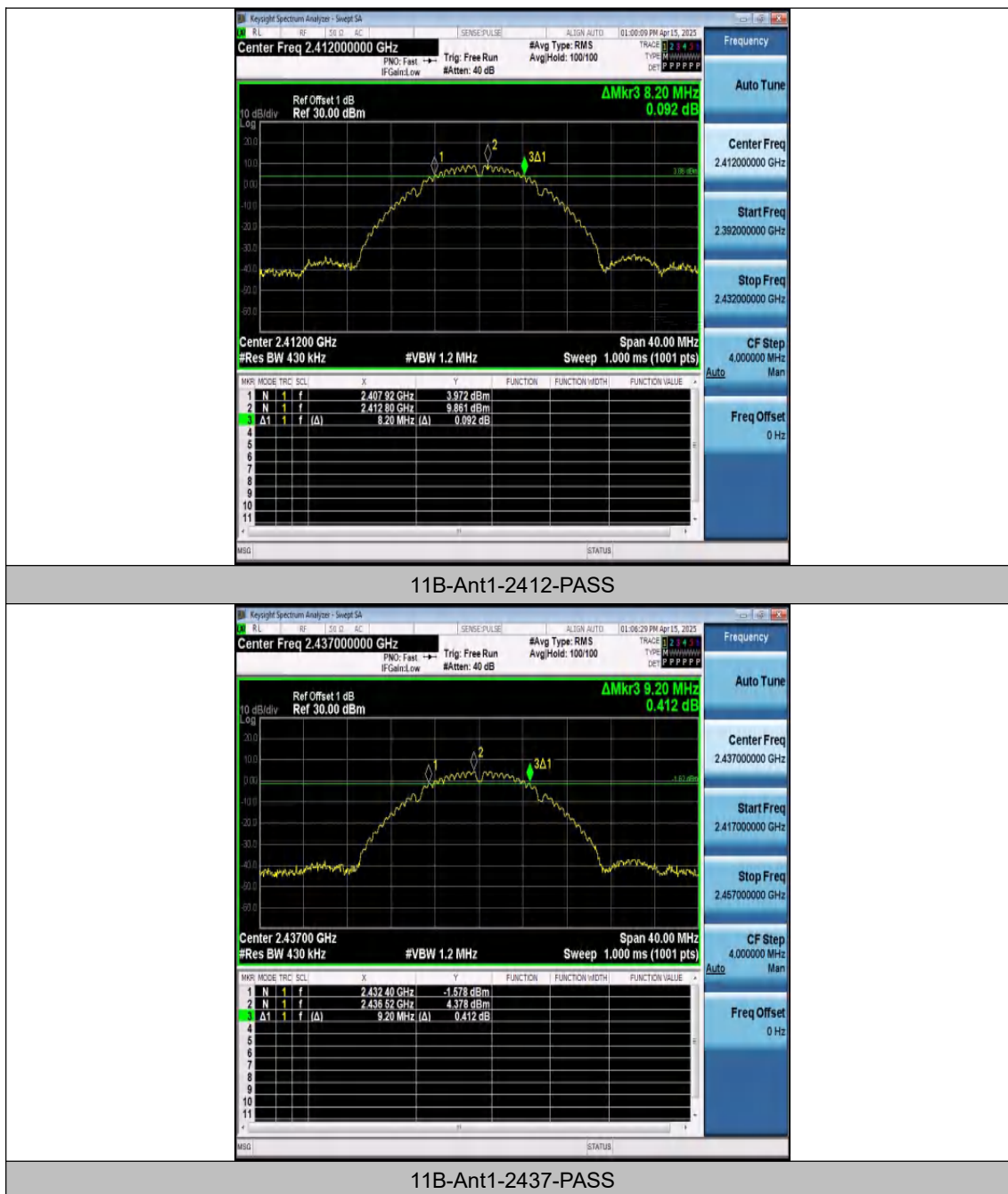
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.200	2407.920	2416.120	0.5	PASS
11B	Ant1	2437	9.200	2432.400	2441.600	0.5	PASS
11B	Ant1	2462	9.200	2457.400	2466.600	0.5	PASS
11G	Ant1	2412	16.200	2403.800	2420.000	0.5	PASS
11G	Ant1	2437	16.080	2428.960	2445.040	0.5	PASS
11G	Ant1	2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.400	2402.640	2419.040	0.5	PASS
11N20SISO	Ant1	2437	17.160	2428.440	2445.600	0.5	PASS
11N20SISO	Ant1	2462	17.320	2453.440	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.480	2439.760	0.5	PASS
11N40SISO	Ant1	2437	34.640	2419.320	2453.960	0.5	PASS
11N40SISO	Ant1	2452	35.280	2434.320	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	18.800	2402.720	2421.520	0.5	PASS
11AX20SISO	Ant1	2437	18.560	2427.920	2446.480	0.5	PASS
11AX20SISO	Ant1	2462	18.240	2453.040	2471.280	0.5	PASS
11AX40SISO	Ant1	2422	35.440	2403.680	2439.120	0.5	PASS
11AX40SISO	Ant1	2437	34.640	2419.400	2454.040	0.5	PASS
11AX40SISO	Ant1	2452	33.040	2435.920	2468.960	0.5	PASS



Test Graphs

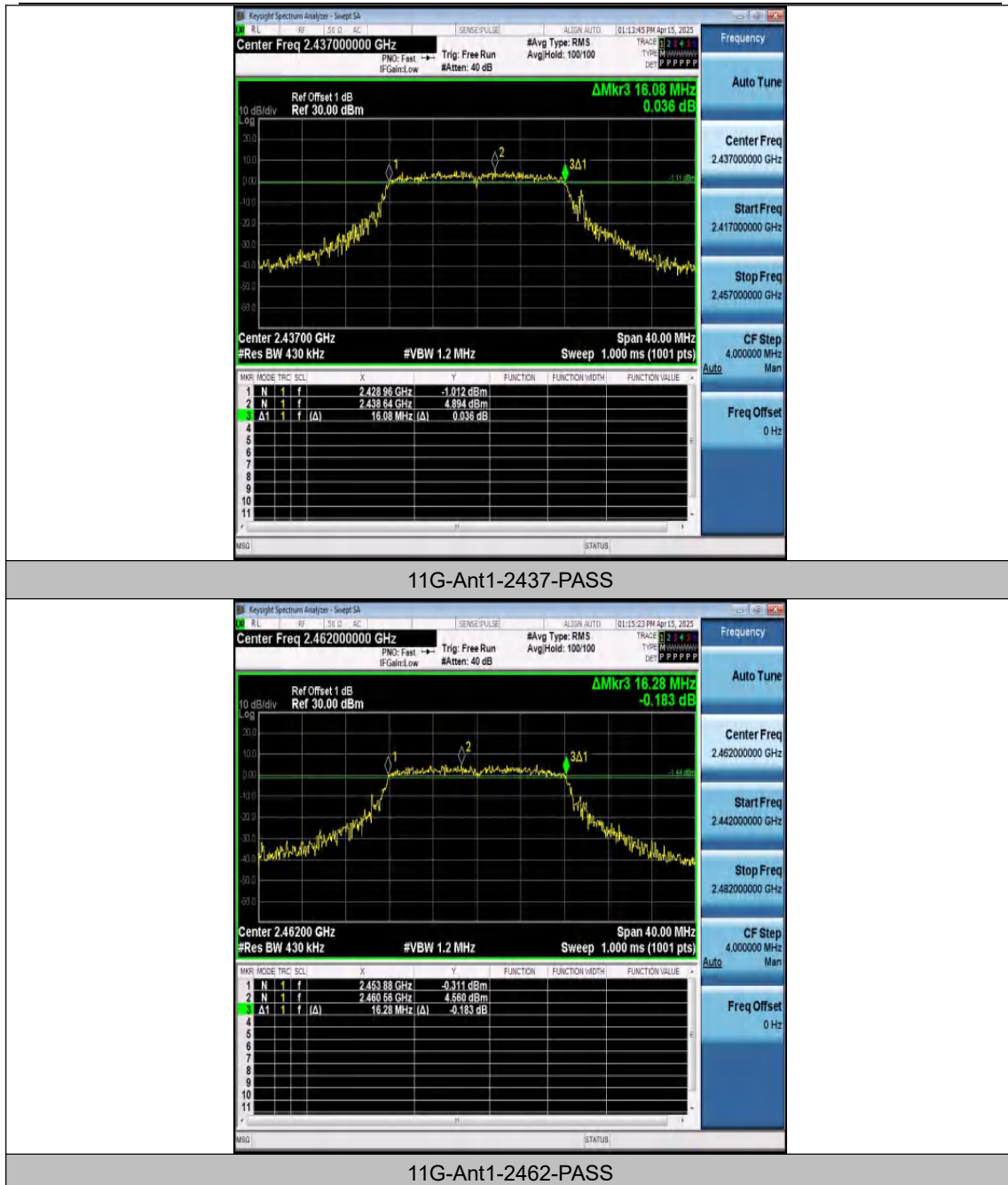




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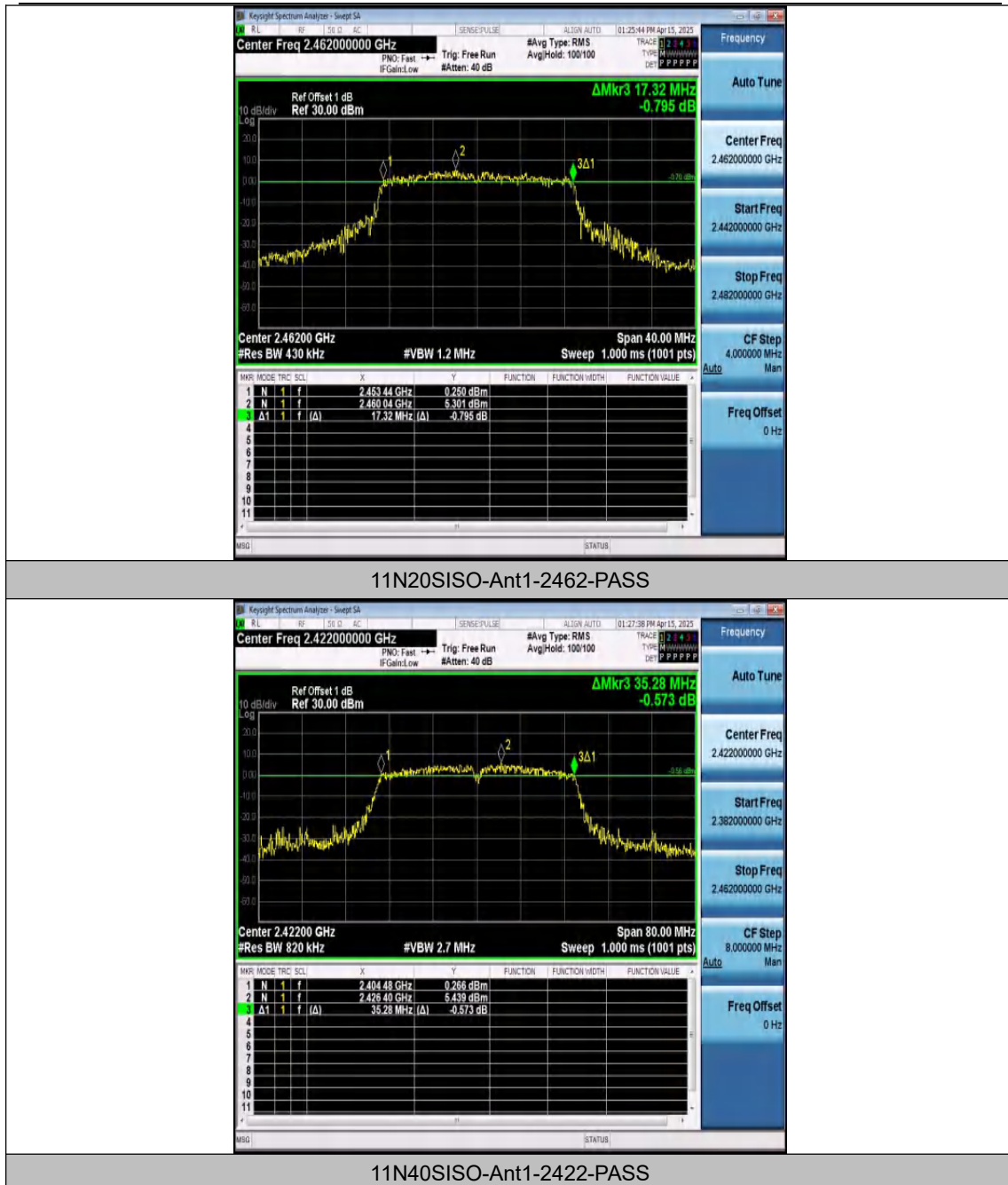




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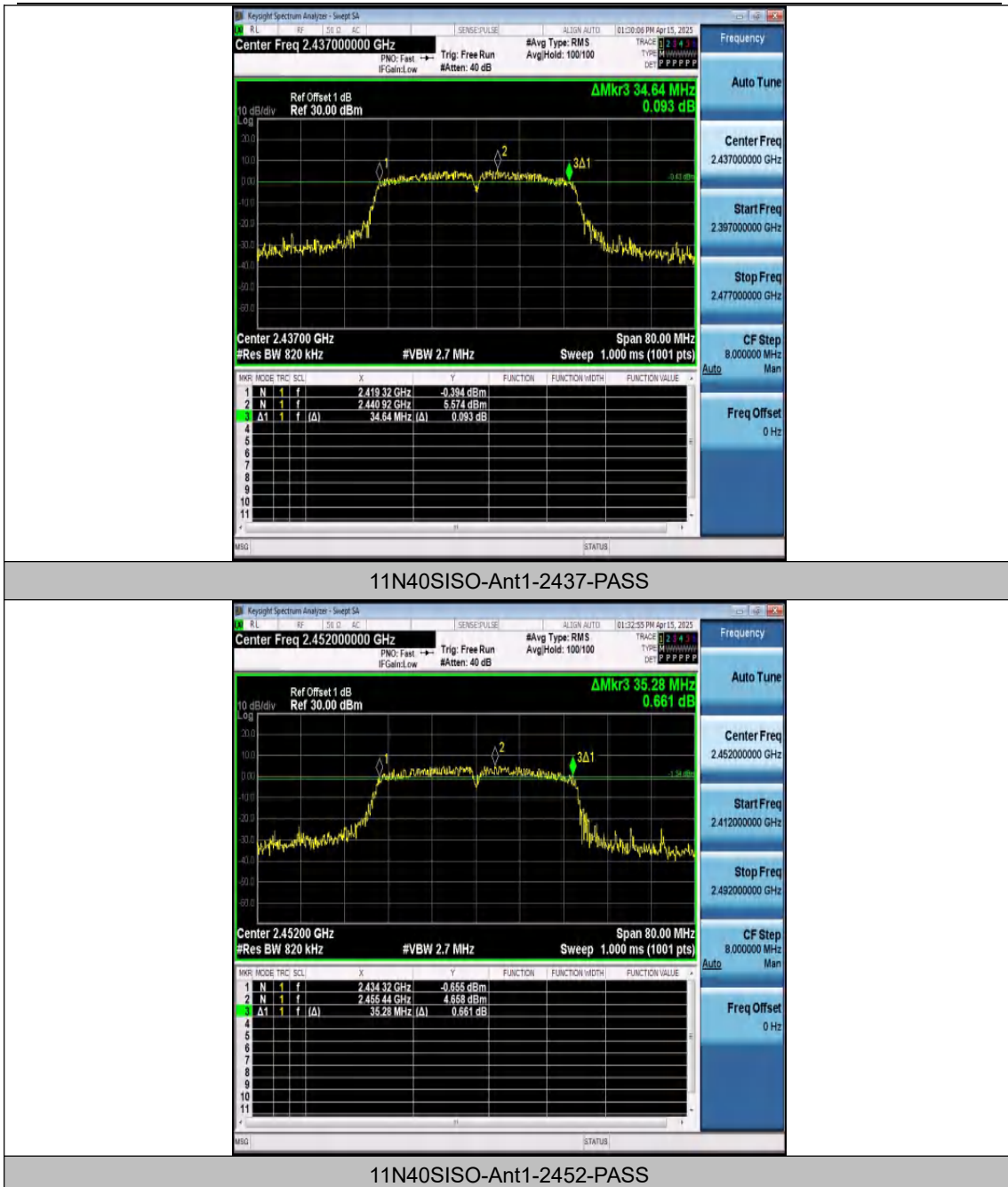
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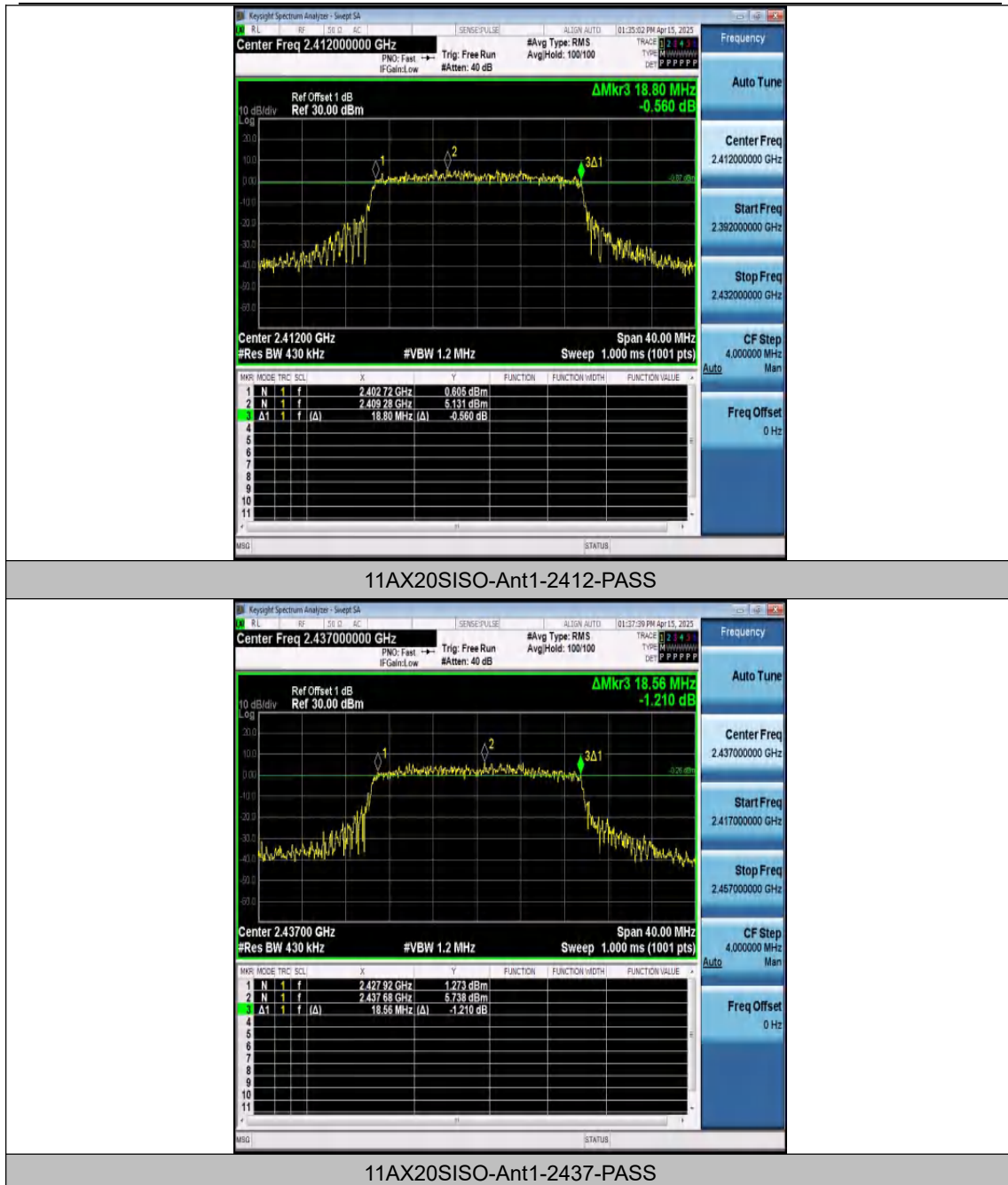


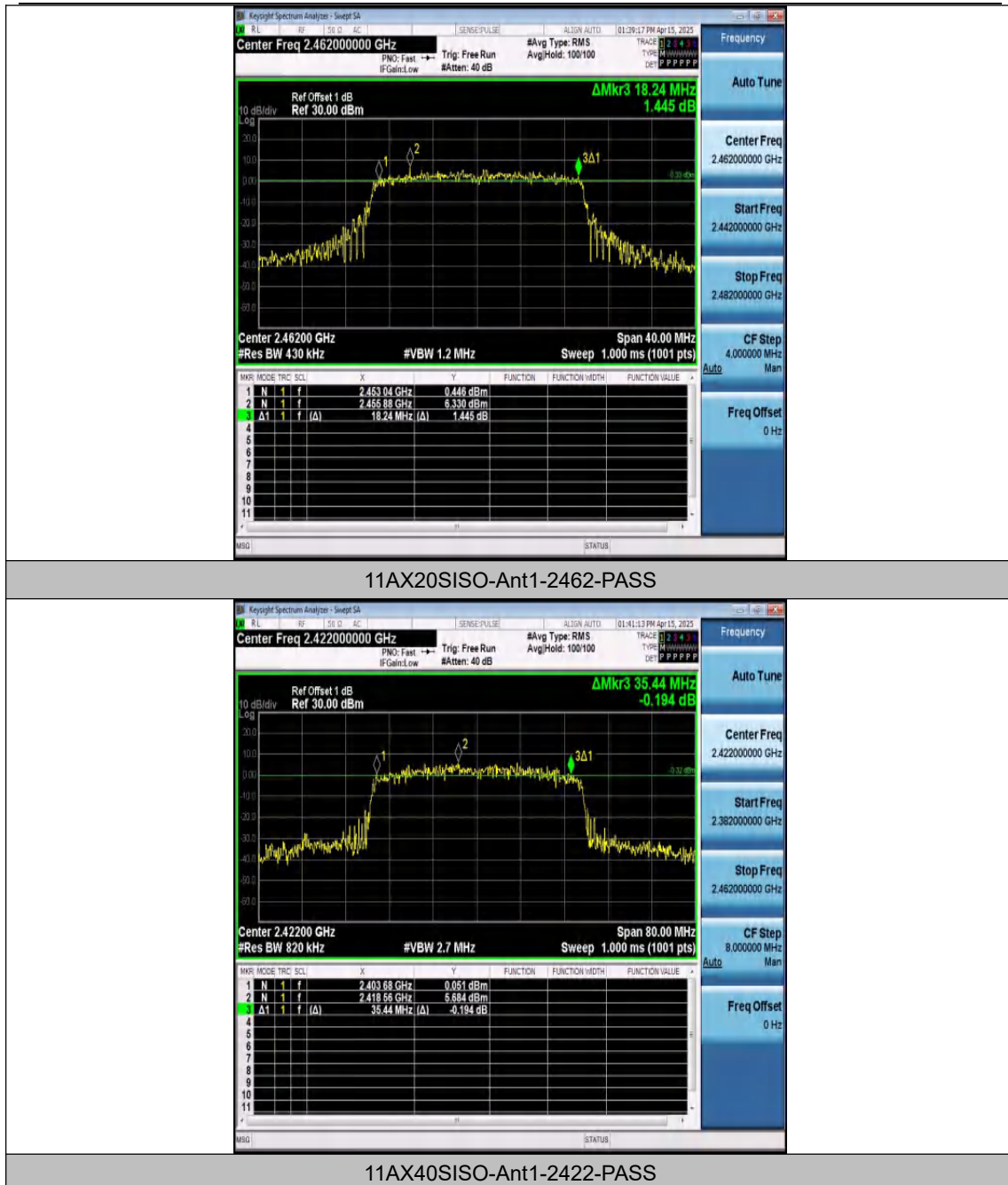
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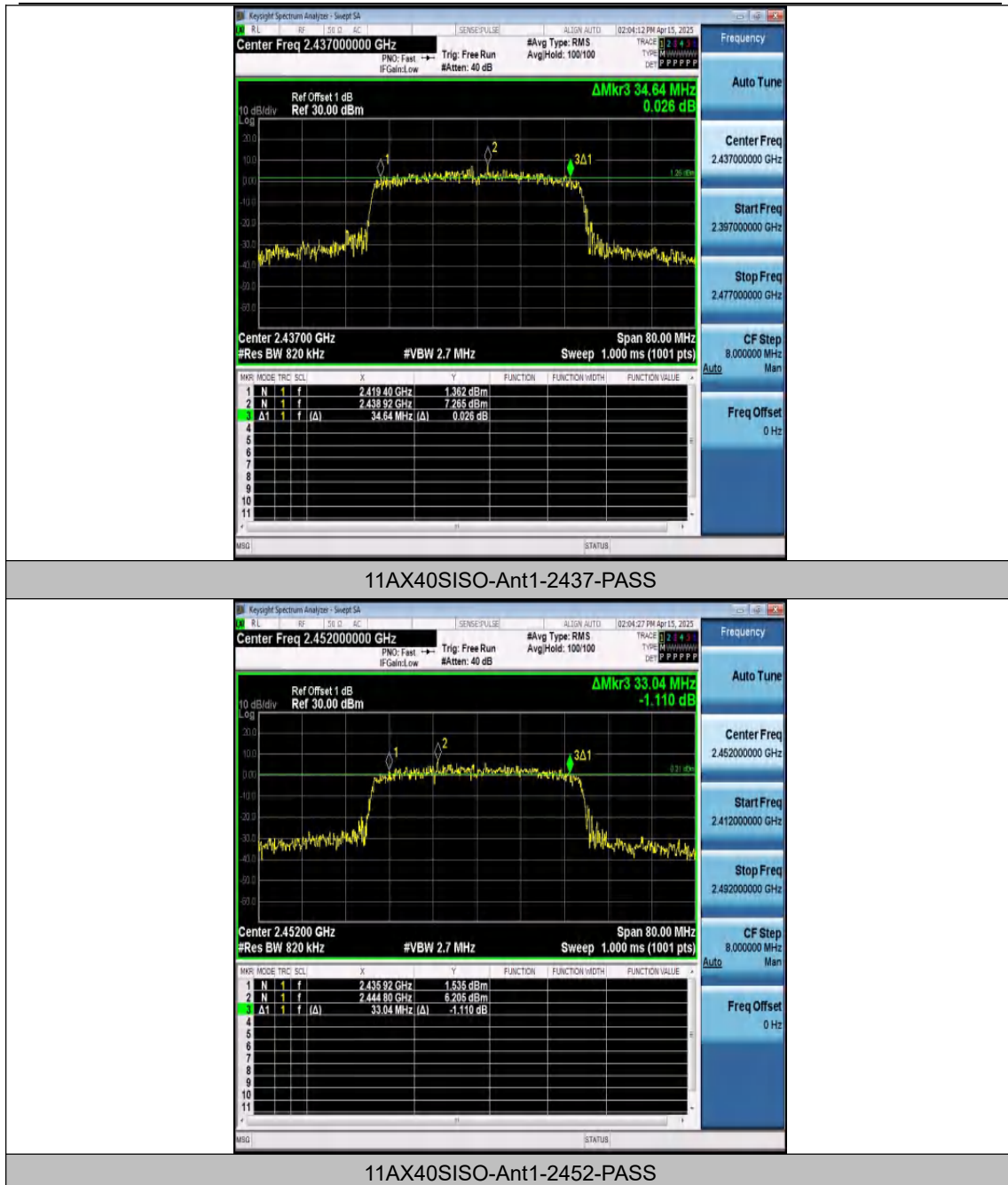
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.698	2405.1712	2418.8692	---	---
11B	Ant1	2437	13.765	2430.1361	2443.9011	---	---
11B	Ant1	2462	13.761	2455.1372	2468.8982	---	---
11G	Ant1	2412	16.781	2403.6418	2420.4228	---	---
11G	Ant1	2437	16.836	2428.6017	2445.4377	---	---
11G	Ant1	2462	17.112	2453.3646	2470.4766	---	---
11N20SISO	Ant1	2412	17.854	2403.1060	2420.9600	---	---
11N20SISO	Ant1	2437	17.795	2428.2135	2446.0085	---	---
11N20SISO	Ant1	2462	17.776	2453.1604	2470.9364	---	---
11N40SISO	Ant1	2422	35.813	2404.2041	2440.0171	---	---
11N40SISO	Ant1	2437	36.052	2419.0316	2455.0836	---	---
11N40SISO	Ant1	2452	35.873	2434.1584	2470.0314	---	---
11AX20SISO	Ant1	2412	19.086	2402.4735	2421.5595	---	---
11AX20SISO	Ant1	2437	18.893	2427.6036	2446.4966	---	---
11AX20SISO	Ant1	2462	18.887	2452.5735	2471.4605	---	---
11AX40SISO	Ant1	2422	37.467	2403.2902	2440.7572	---	---
11AX40SISO	Ant1	2437	37.279	2418.3720	2455.6510	---	---
11AX40SISO	Ant1	2452	37.504	2433.2775	2470.7815	---	---



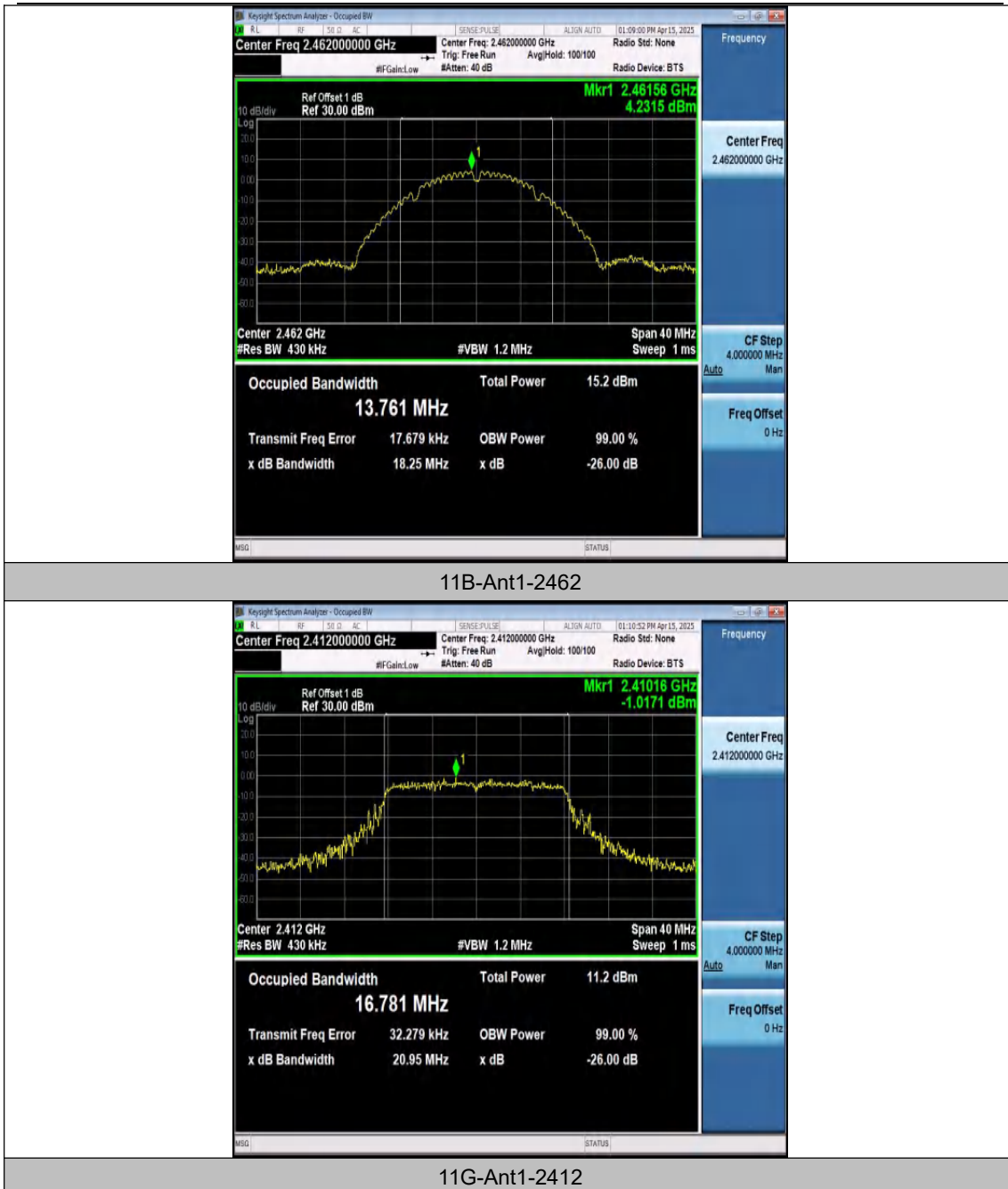
Test Graphs

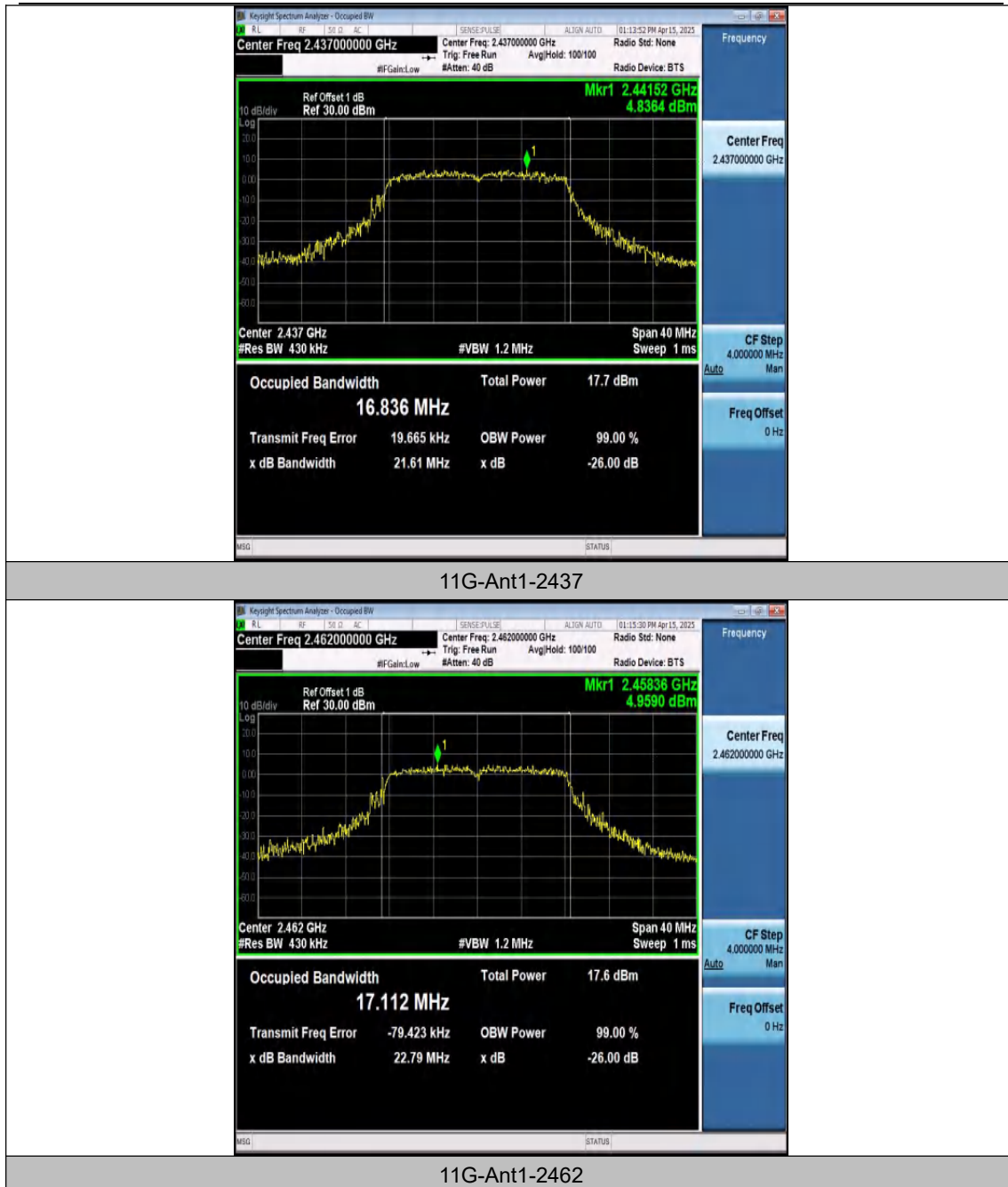


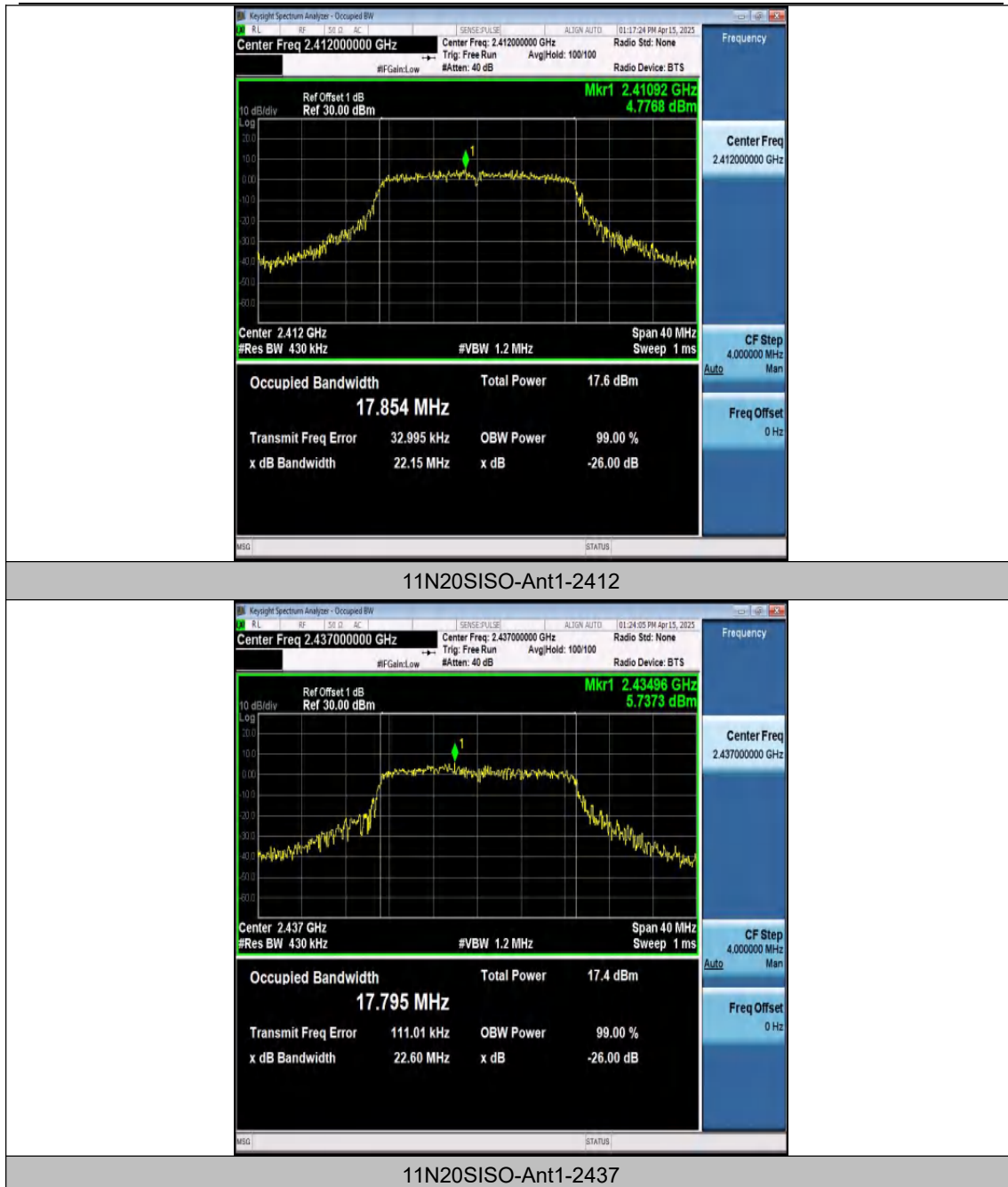
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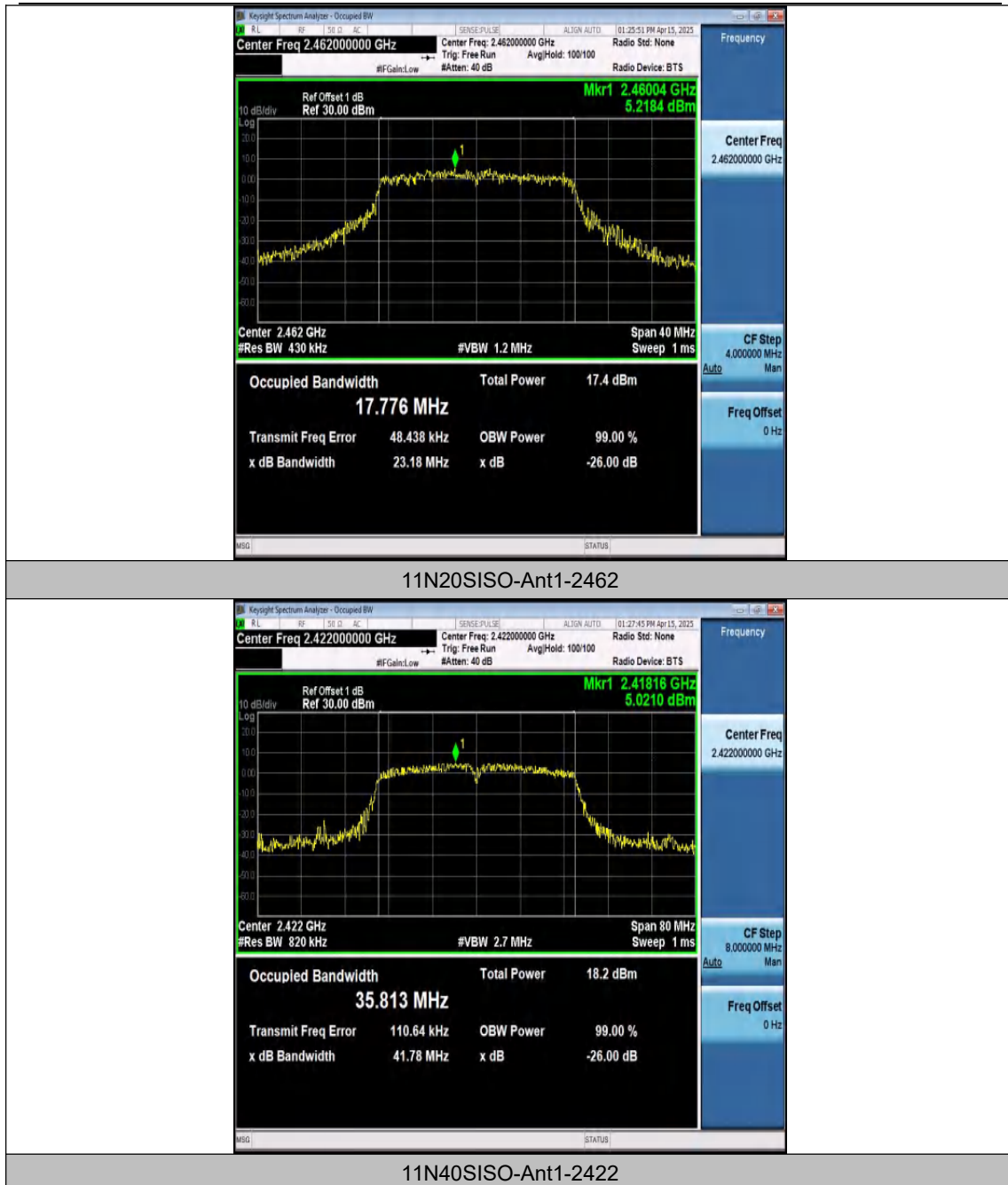
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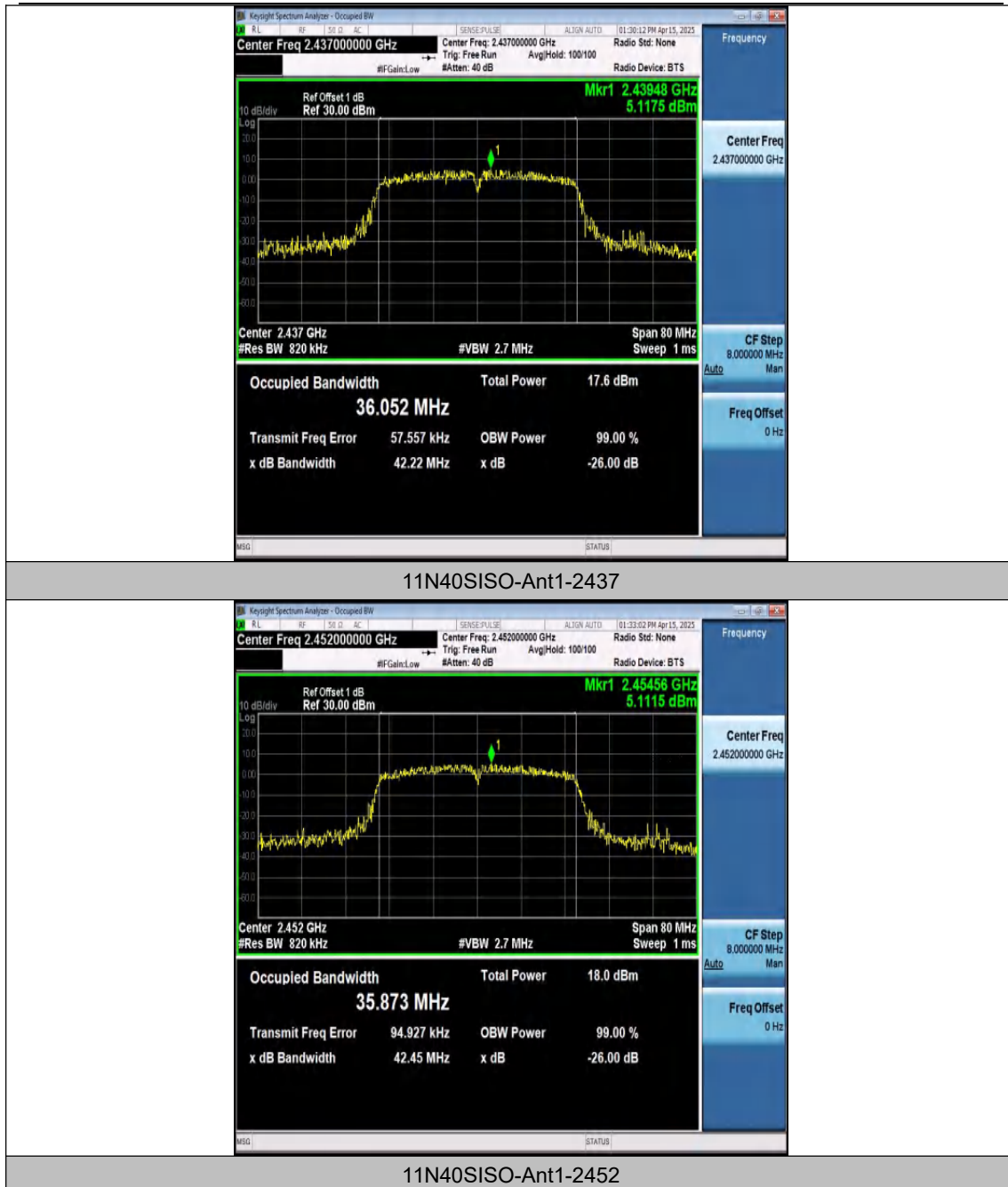
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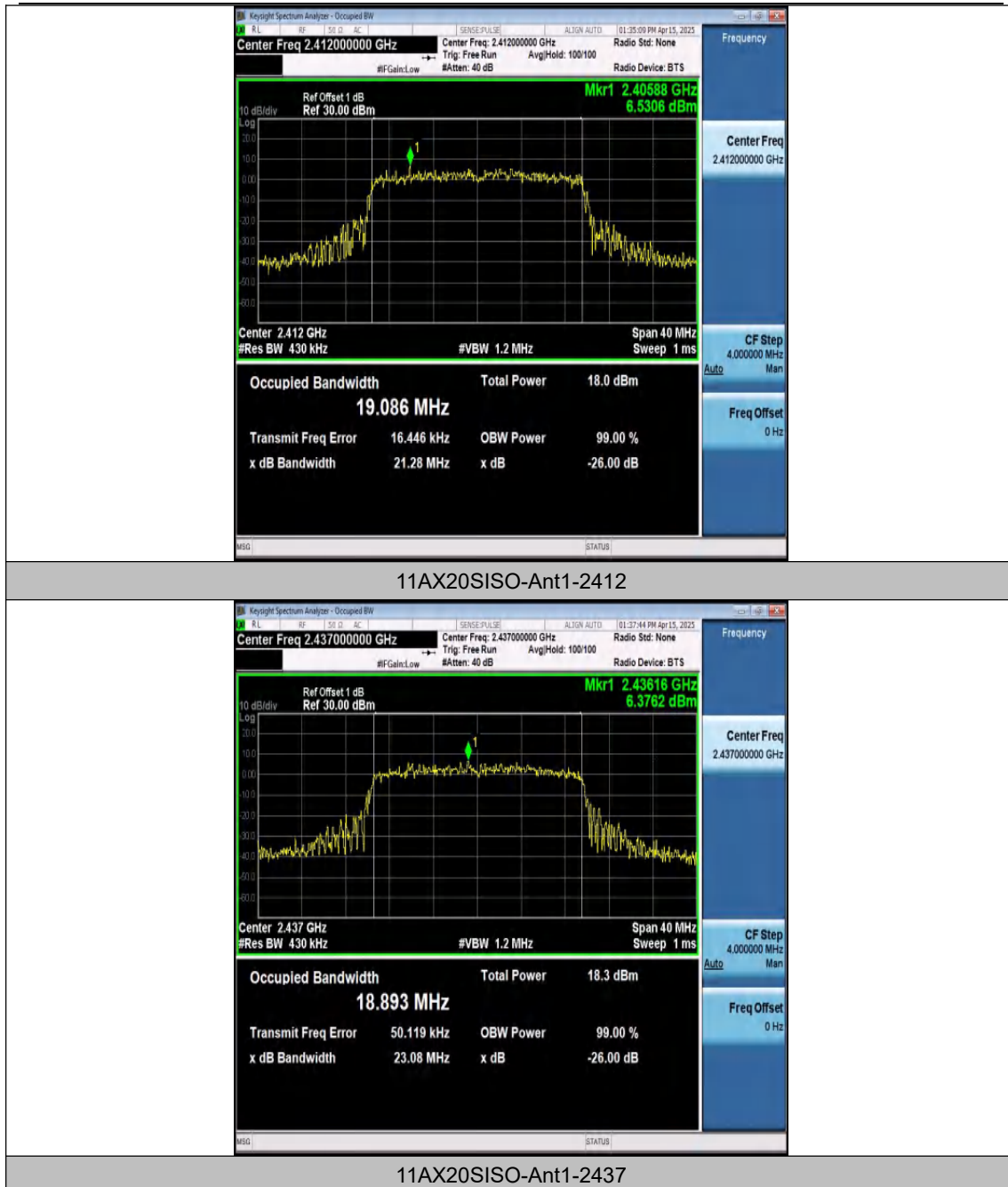








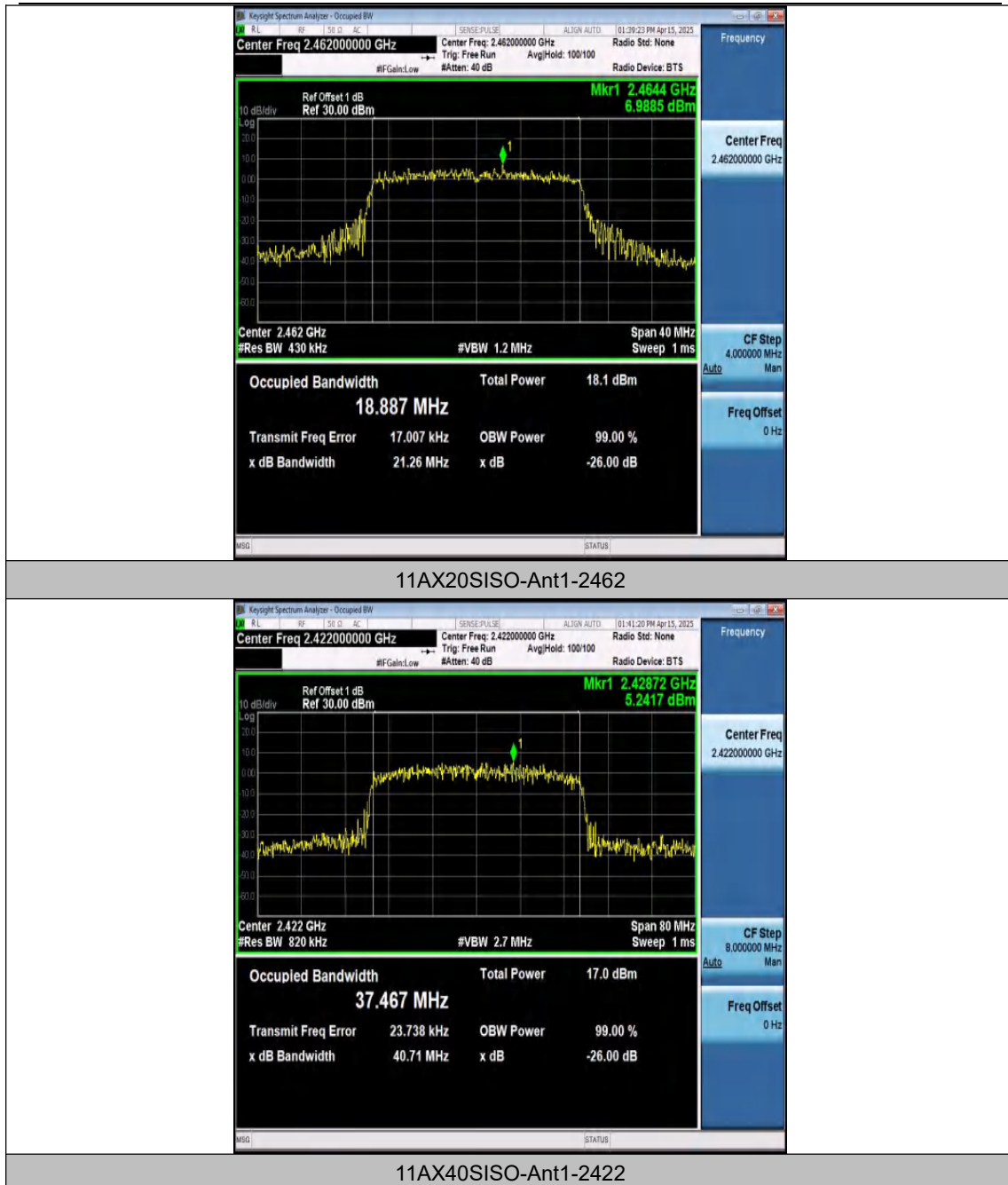


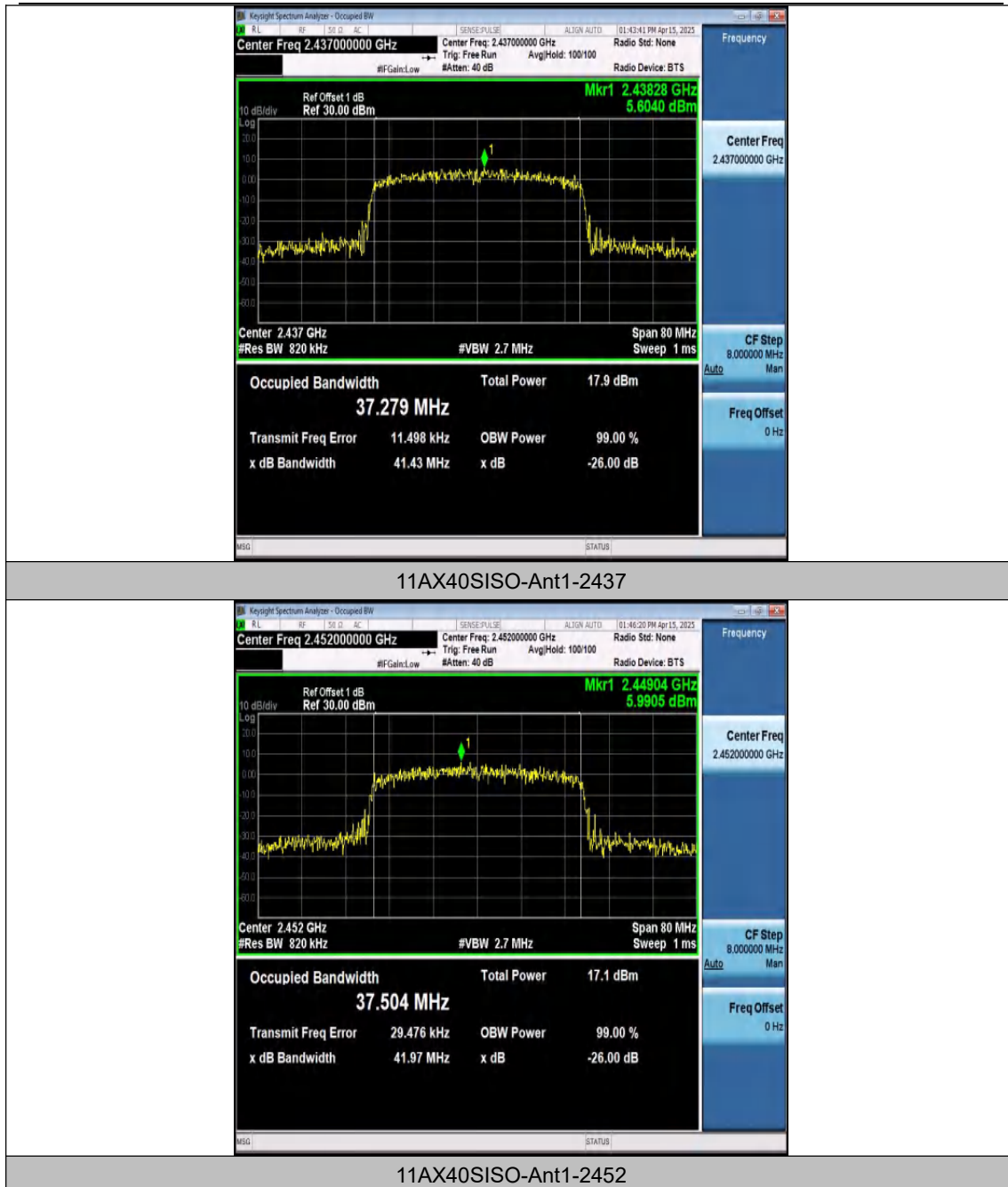


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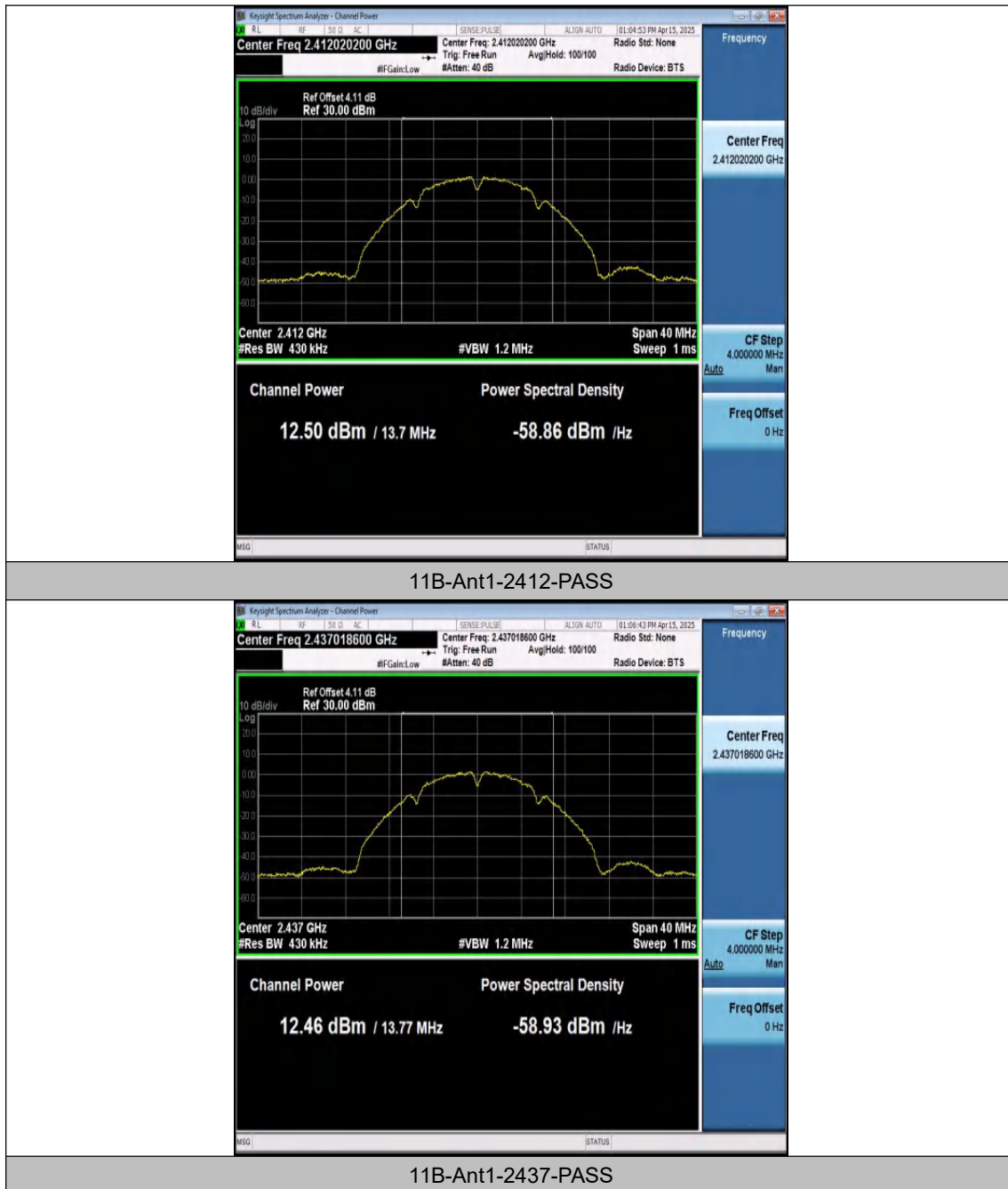
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	9.39	48.89	3.11	12.50	≤30.00	PASS
11B	Ant1	2437	9.35	48.89	3.11	12.46	≤30.00	PASS
11B	Ant1	2462	9.03	48.89	3.11	12.14	≤30.00	PASS
11G	Ant1	2412	4.30	13.51	8.69	12.99	≤30.00	PASS
11G	Ant1	2437	4.23	13.51	8.69	12.92	≤30.00	PASS
11G	Ant1	2462	4.56	13.51	8.69	13.25	≤30.00	PASS
11N20SISO	Ant1	2412	4.60	12.91	8.89	13.49	≤30.00	PASS
11N20SISO	Ant1	2437	2.70	7.69	11.14	13.84	≤30.00	PASS
11N20SISO	Ant1	2462	2.68	7.69	11.14	13.82	≤30.00	PASS
11N40SISO	Ant1	2422	2.61	9.89	10.05	12.66	≤30.00	PASS
11N40SISO	Ant1	2437	2.99	9.89	10.05	13.04	≤30.00	PASS
11N40SISO	Ant1	2452	2.55	8.92	10.50	13.05	≤30.00	PASS
11AX20SISO	Ant1	2412	2.31	10.59	9.75	12.06	≤30.00	PASS
11AX20SISO	Ant1	2437	2.50	10.59	9.75	12.25	≤30.00	PASS
11AX20SISO	Ant1	2462	3.00	10.59	9.75	12.75	≤30.00	PASS
11AX40SISO	Ant1	2422	-0.56	5.60	12.52	11.96	≤30.00	PASS
11AX40SISO	Ant1	2437	0.80	5.60	12.52	13.32	≤30.00	PASS
11AX40SISO	Ant1	2452	0.56	5.60	12.52	13.08	≤30.00	PASS

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

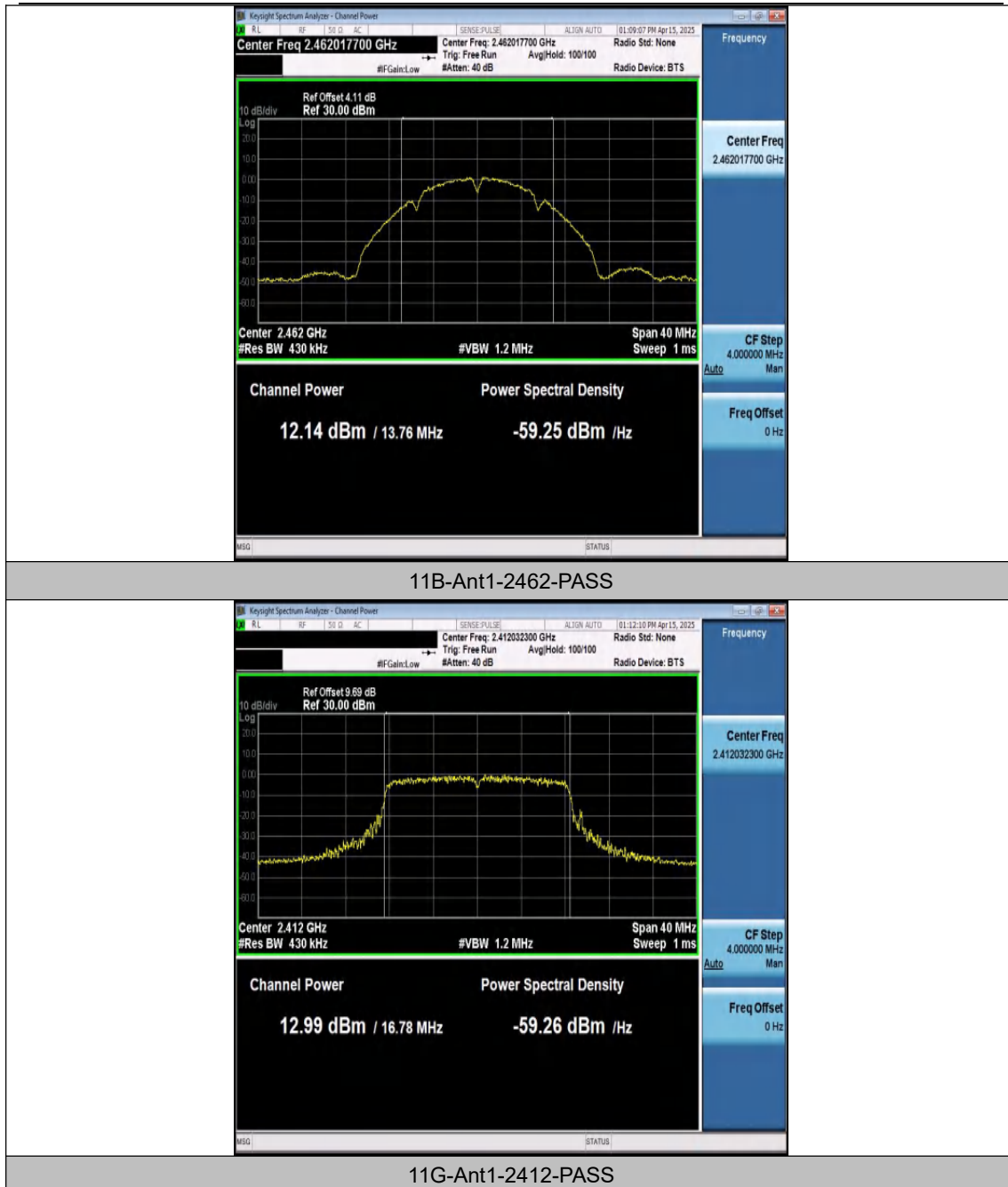
Test Graphs Average

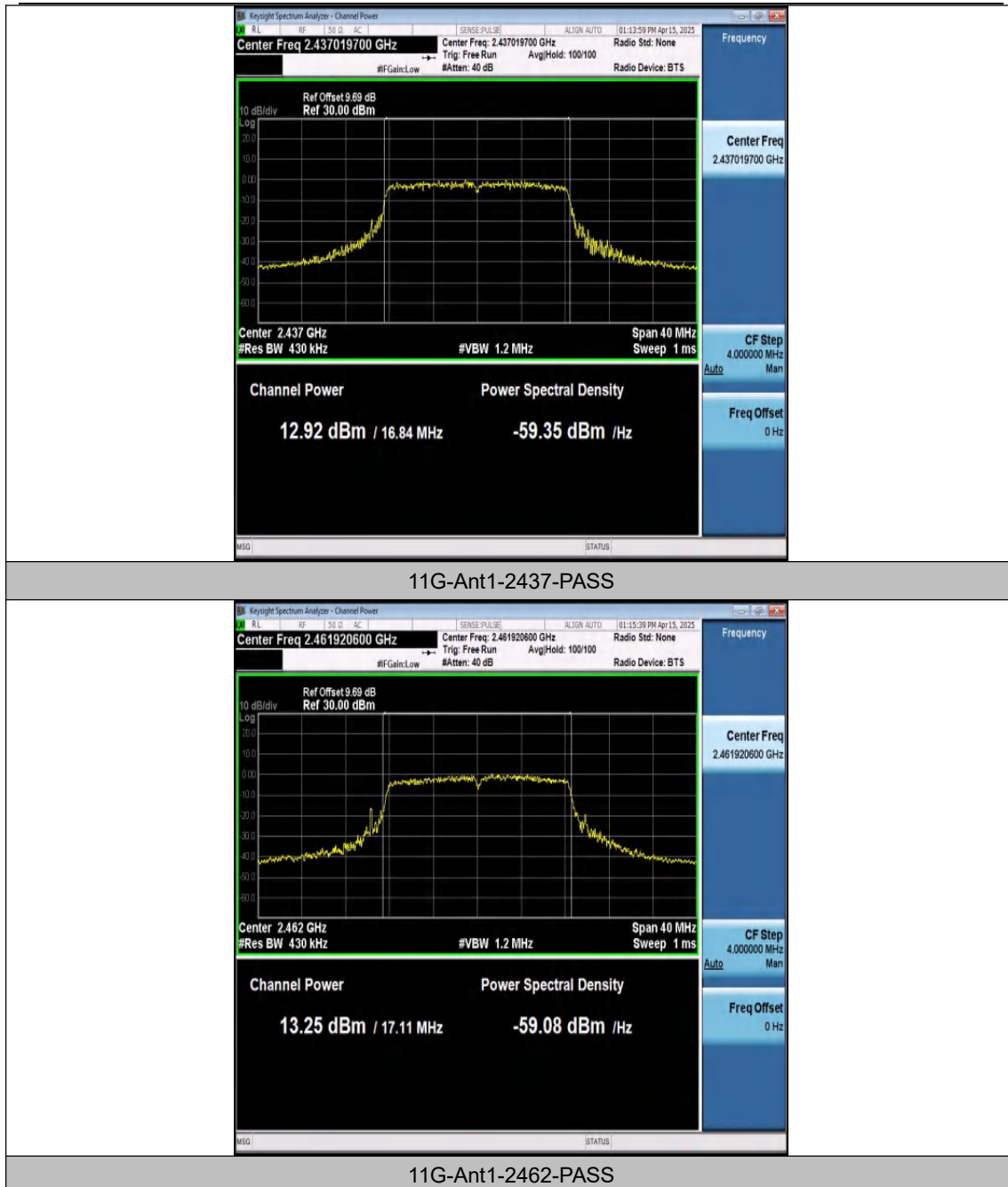


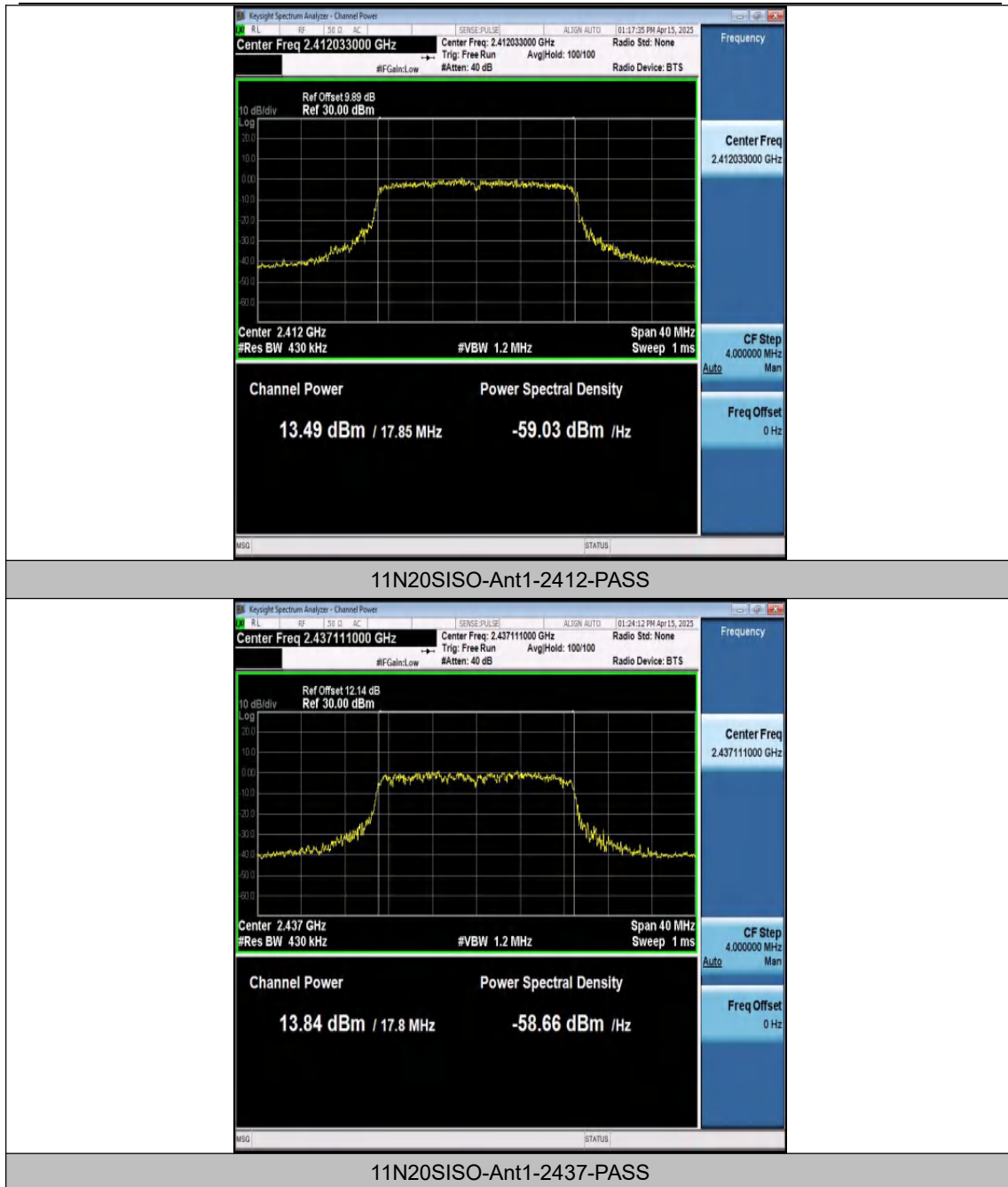
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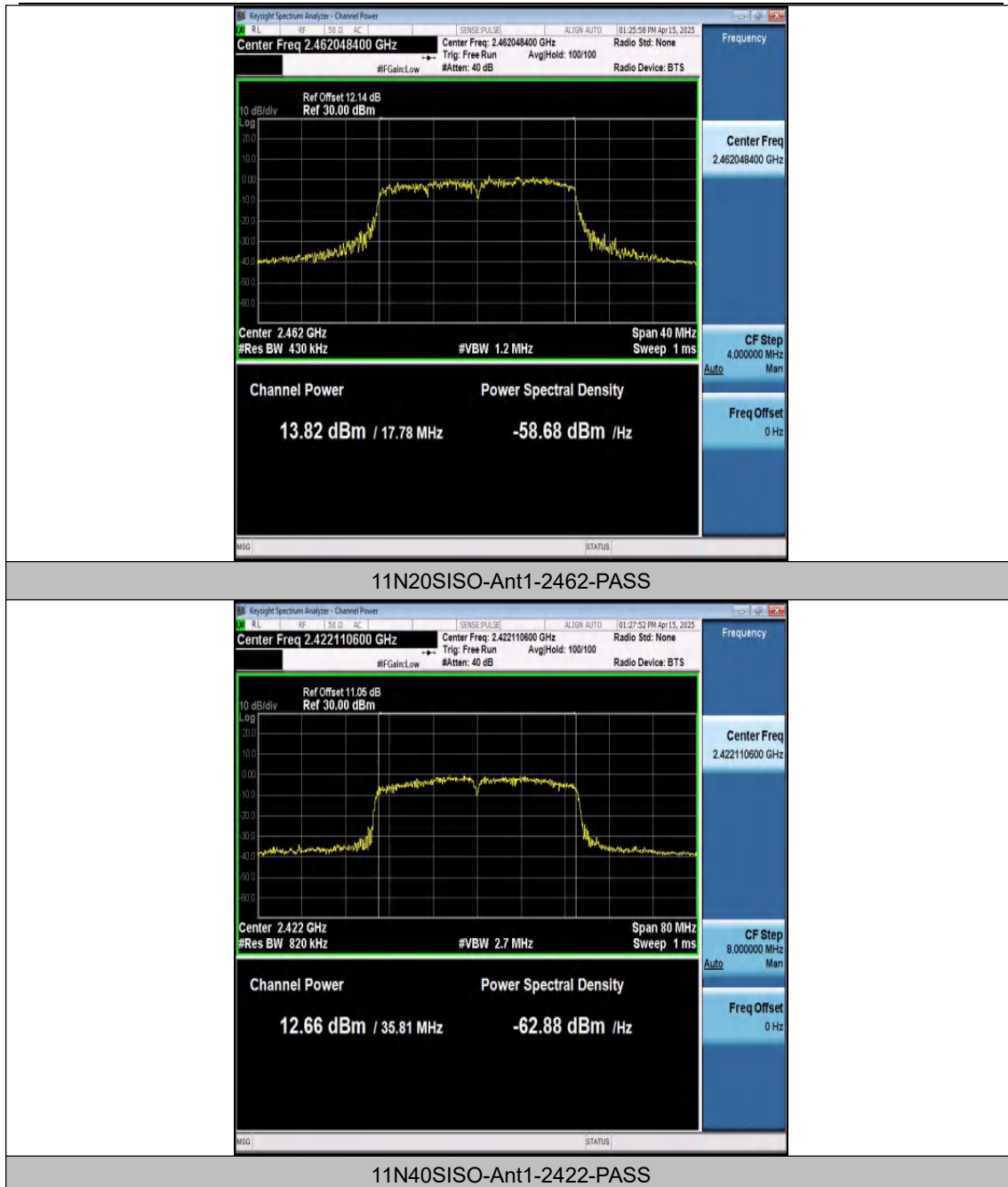
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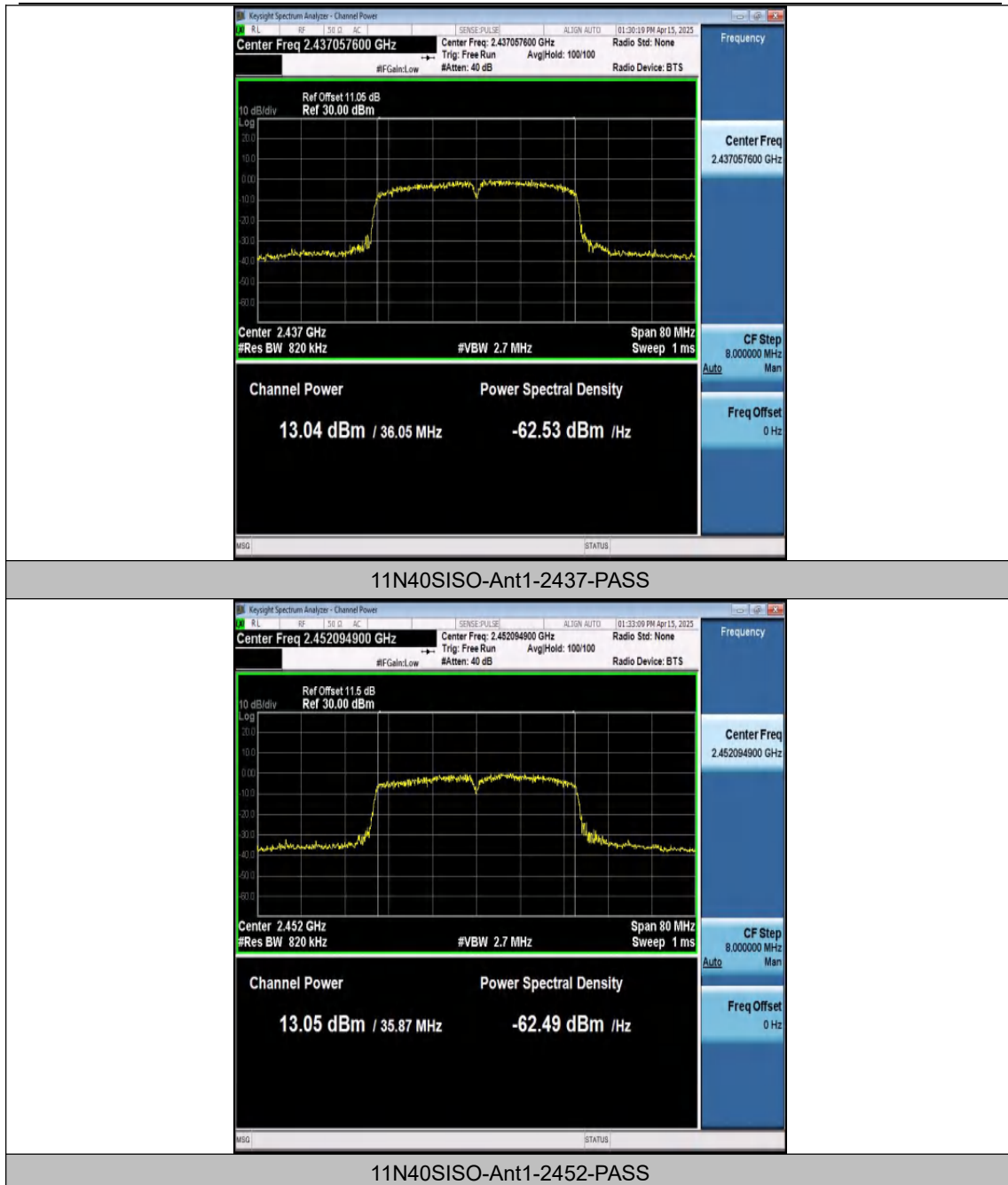




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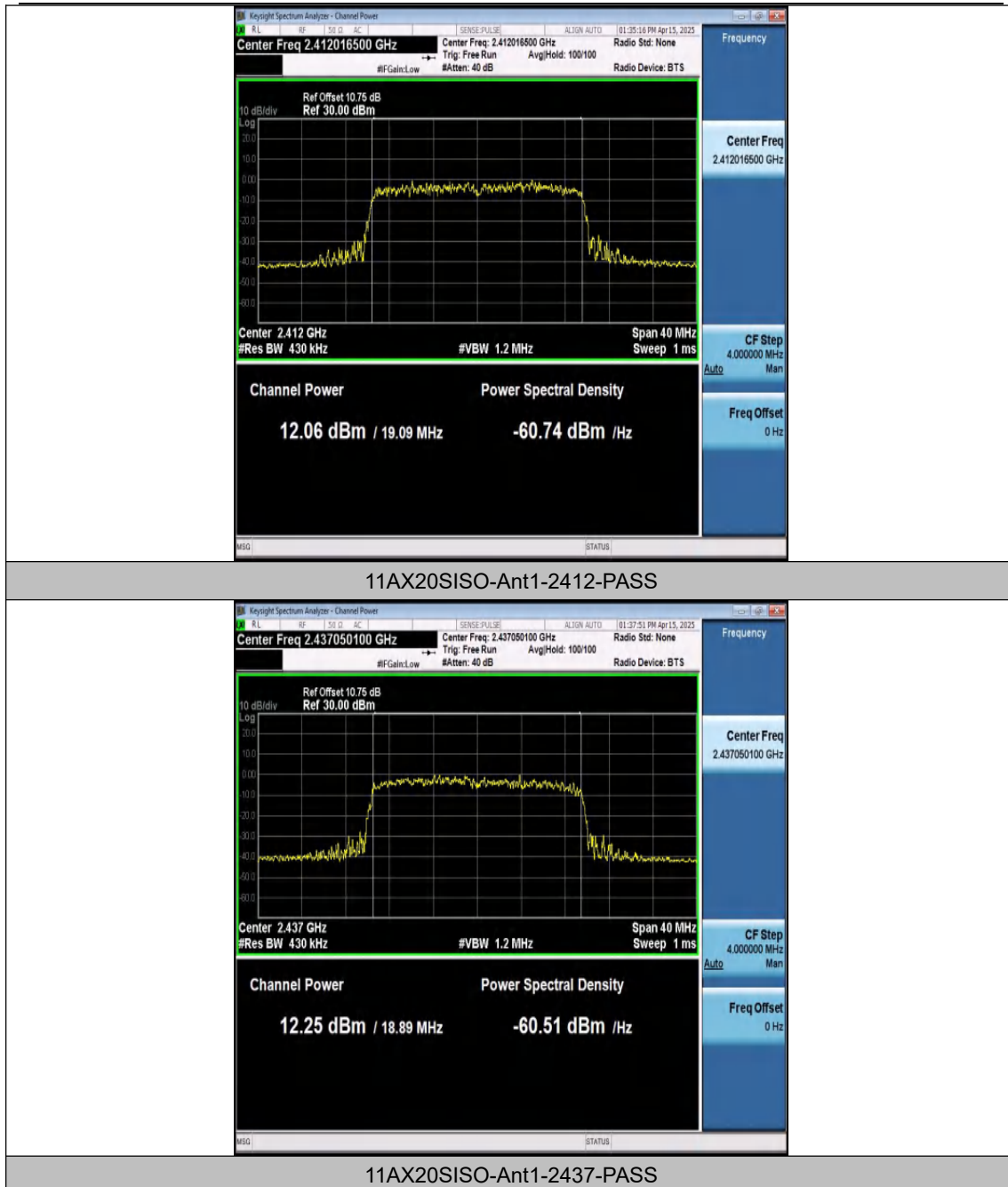
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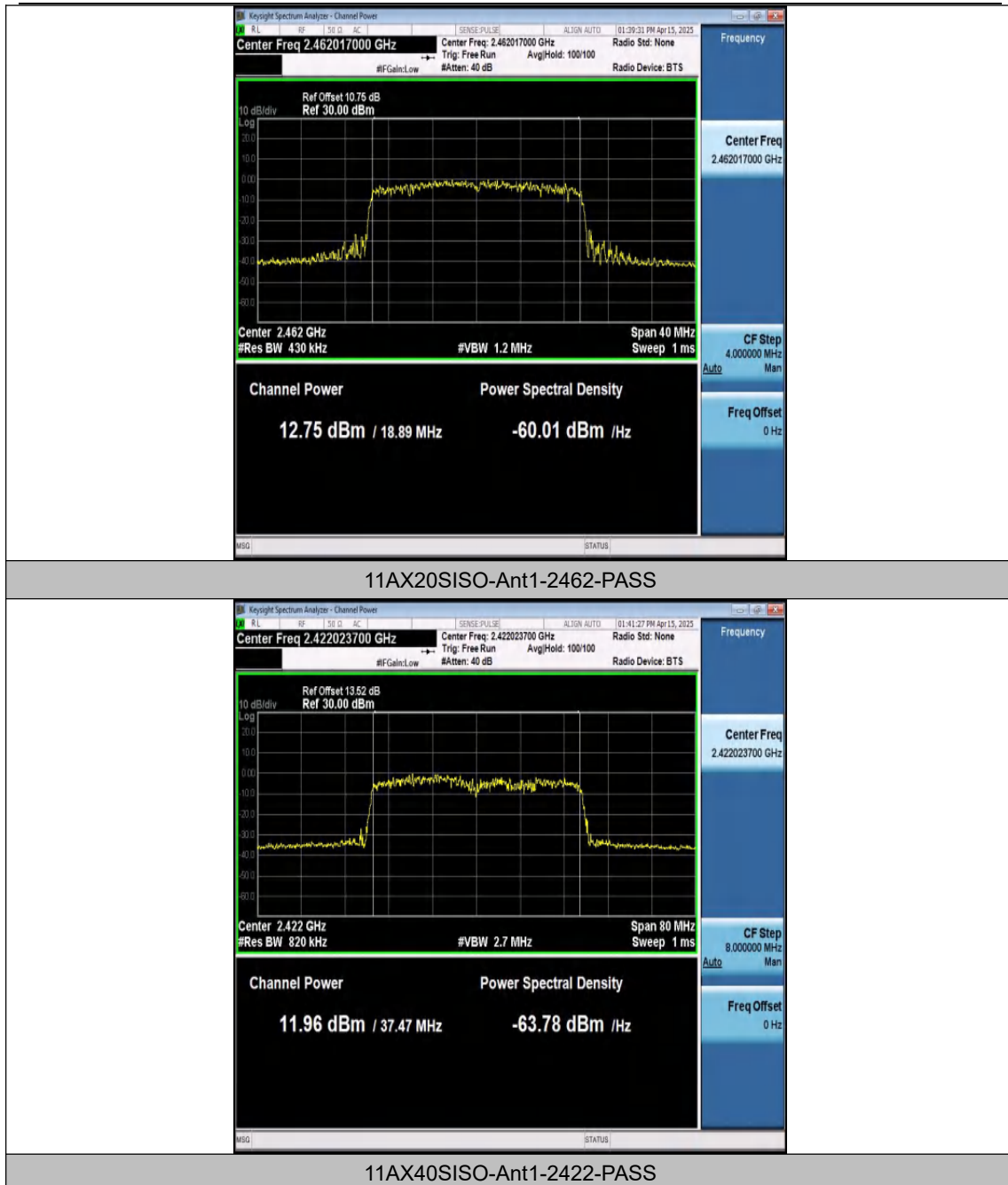


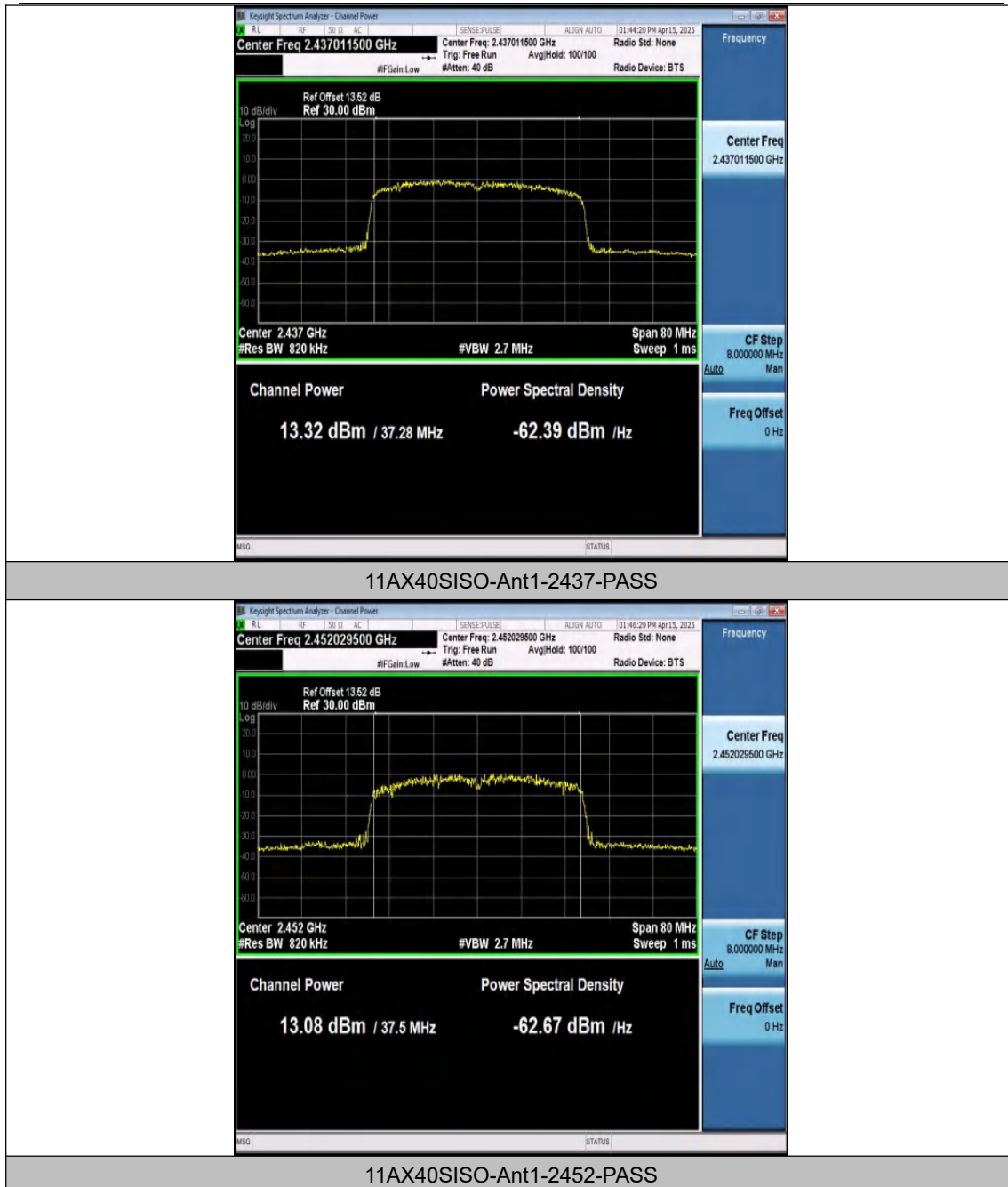
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Appendix D: Maximum power spectral density

Test Result

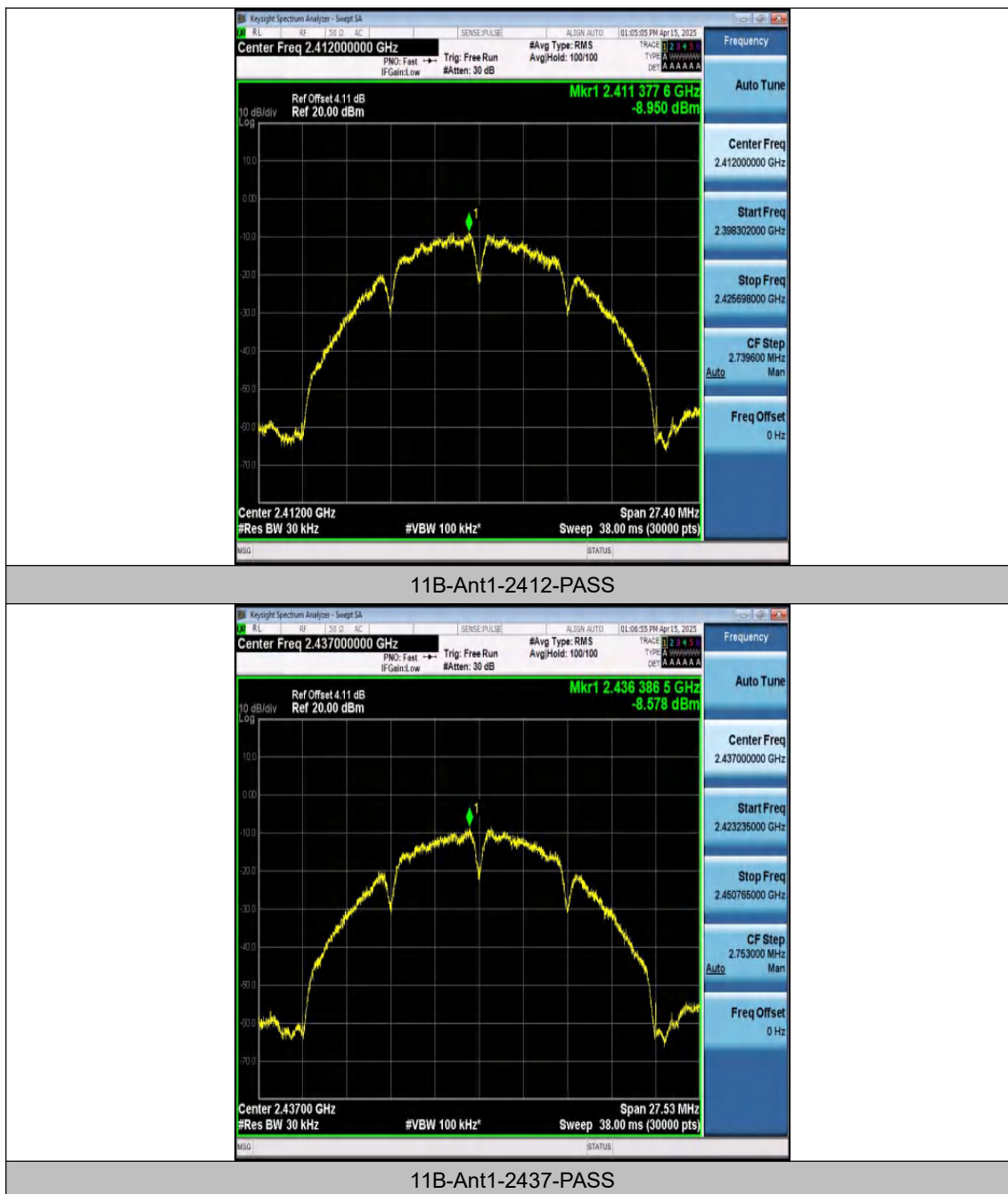
Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.95	-18.95	≤8.00	PASS
11B	Ant1	2437	-8.58	-18.58	≤8.00	PASS
11B	Ant1	2462	-8.47	-18.47	≤8.00	PASS
11G	Ant1	2412	-9.05	-19.05	≤8.00	PASS
11G	Ant1	2437	-8.84	-18.84	≤8.00	PASS
11G	Ant1	2462	-9.00	-19	≤8.00	PASS
11N20SISO	Ant1	2412	-9.25	-19.25	≤8.00	PASS
11N20SISO	Ant1	2437	-6.07	-16.07	≤8.00	PASS
11N20SISO	Ant1	2462	-5.95	-15.95	≤8.00	PASS
11N40SISO	Ant1	2422	-11.06	-21.06	≤8.00	PASS
11N40SISO	Ant1	2437	-11.32	-21.32	≤8.00	PASS
11N40SISO	Ant1	2452	-11.23	-21.23	≤8.00	PASS
11AX20SISO	Ant1	2412	-10.63	-20.63	≤8.00	PASS
11AX20SISO	Ant1	2437	-10.40	-20.4	≤8.00	PASS
11AX20SISO	Ant1	2462	-10.28	-20.28	≤8.00	PASS
11AX40SISO	Ant1	2422	-11.76	-21.76	≤8.00	PASS
11AX40SISO	Ant1	2437	-11.49	-21.49	≤8.00	PASS
11AX40SISO	Ant1	2452	-10.15	-20.15	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



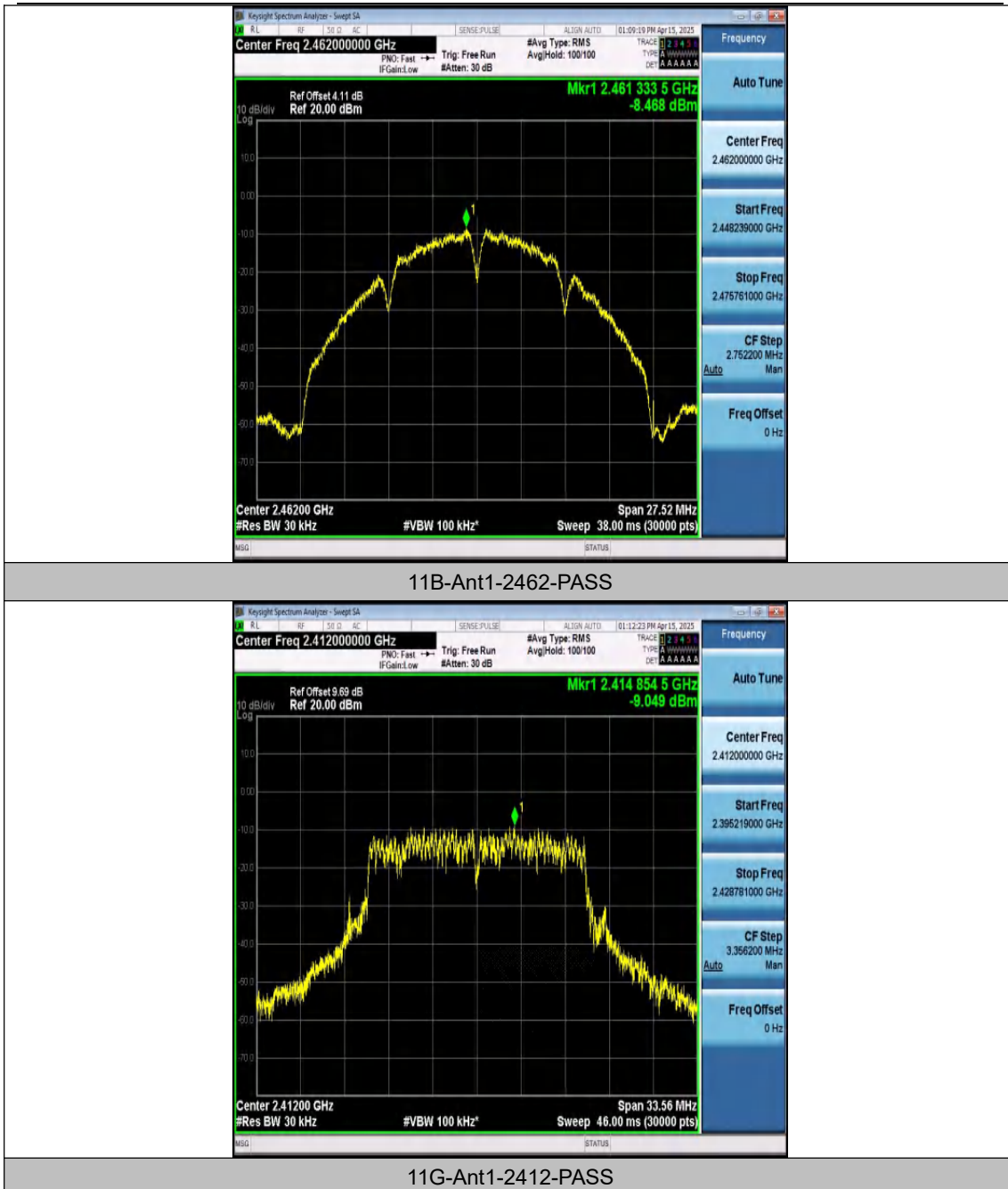
Test Graphs



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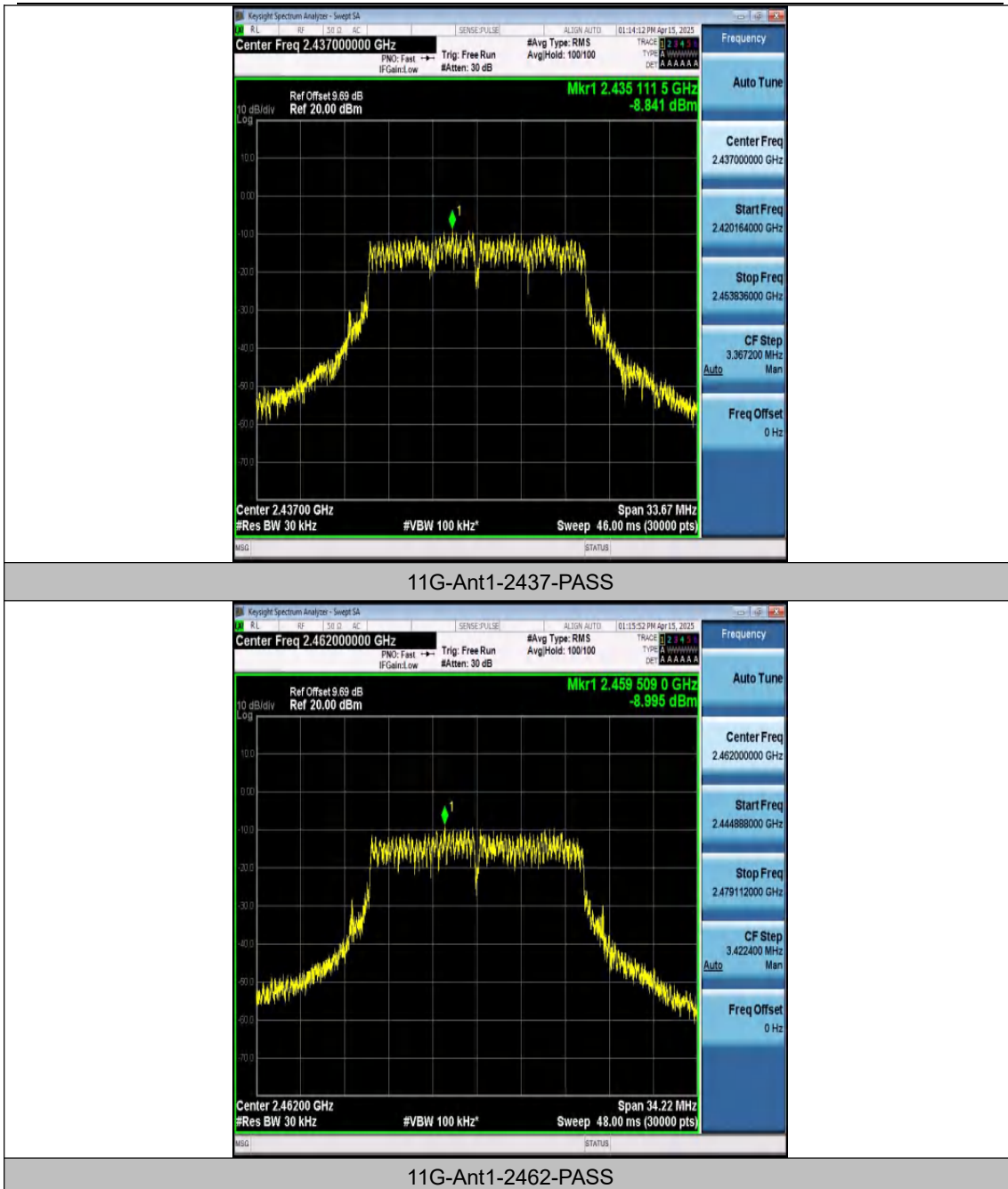
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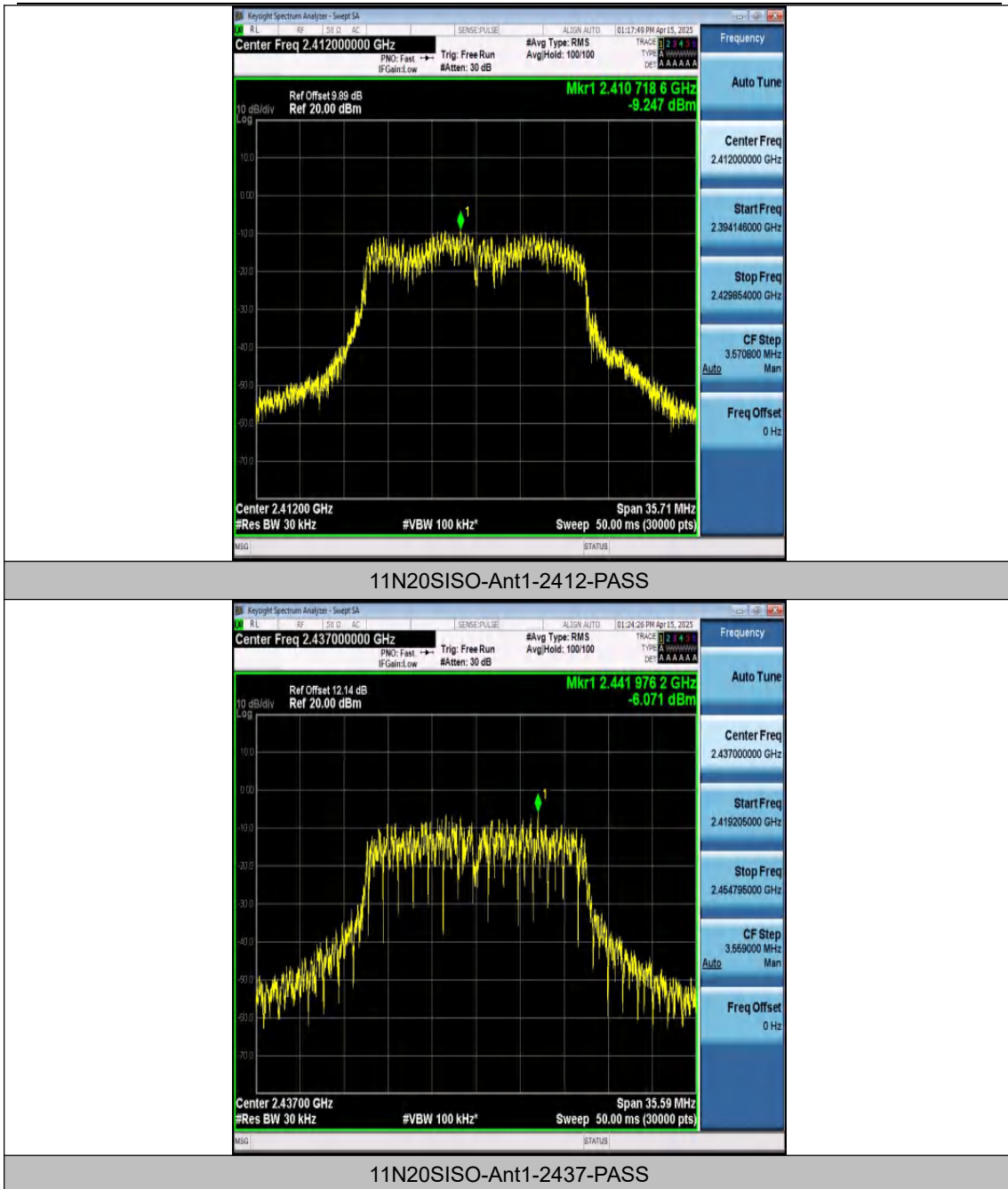
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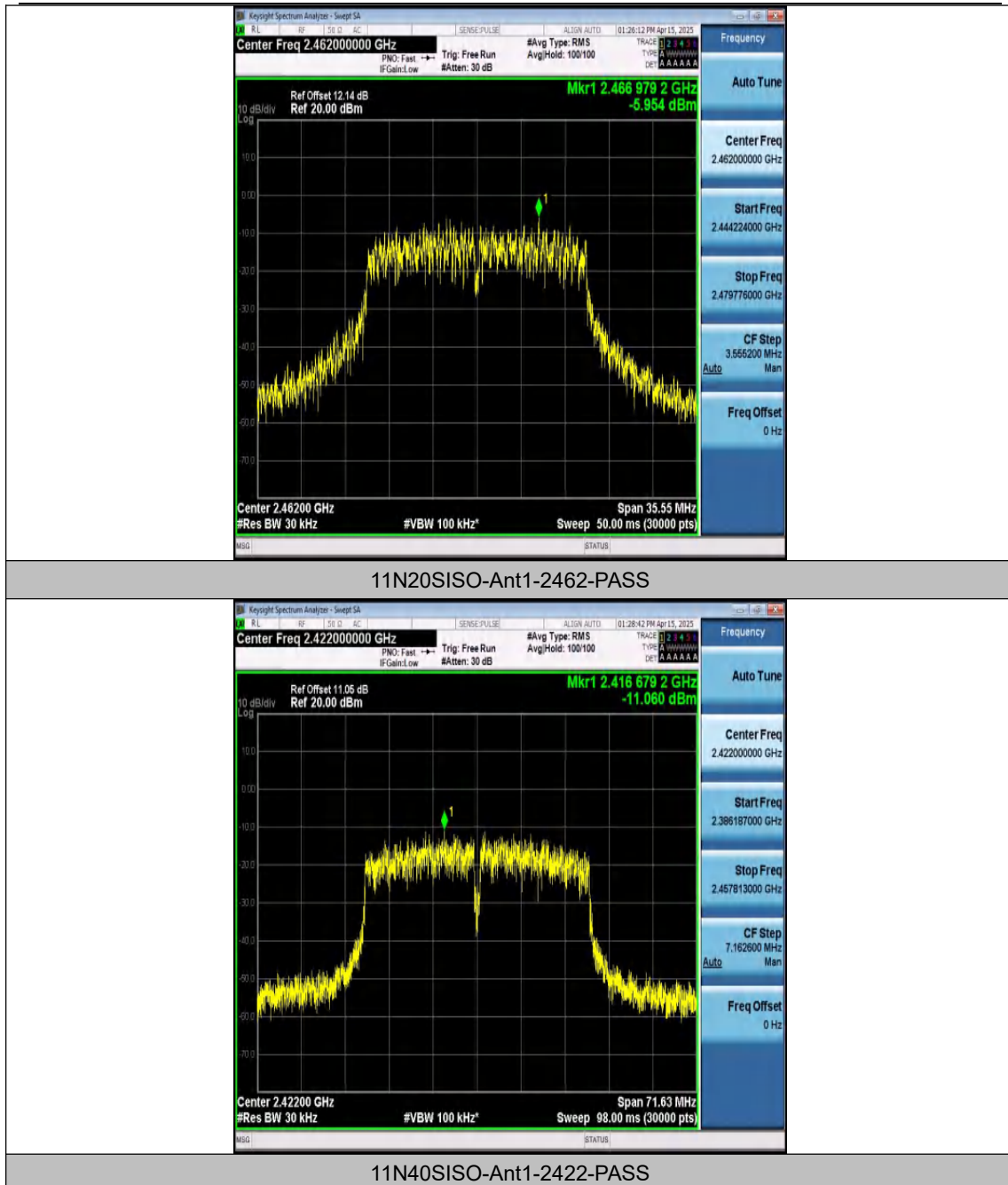


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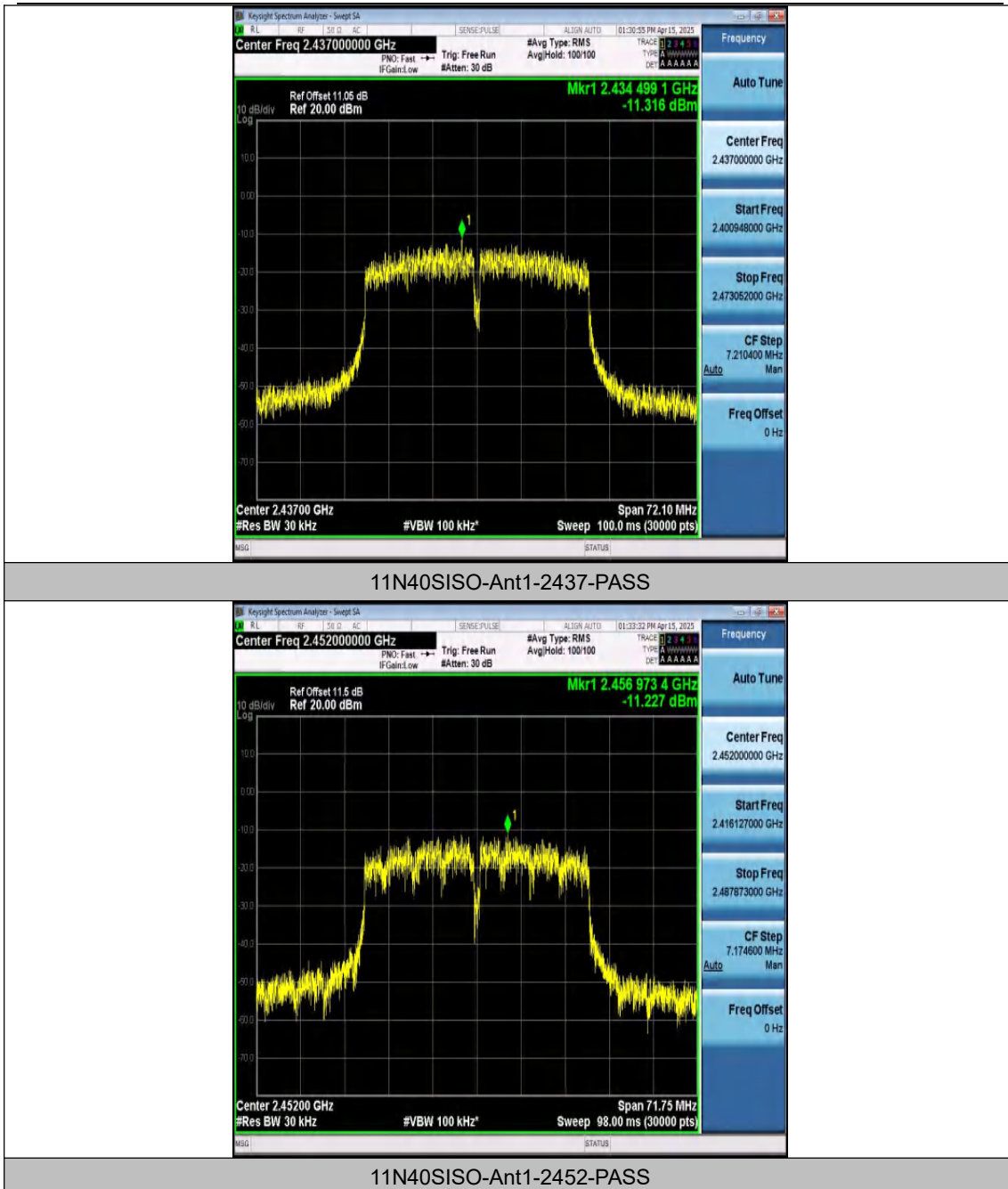
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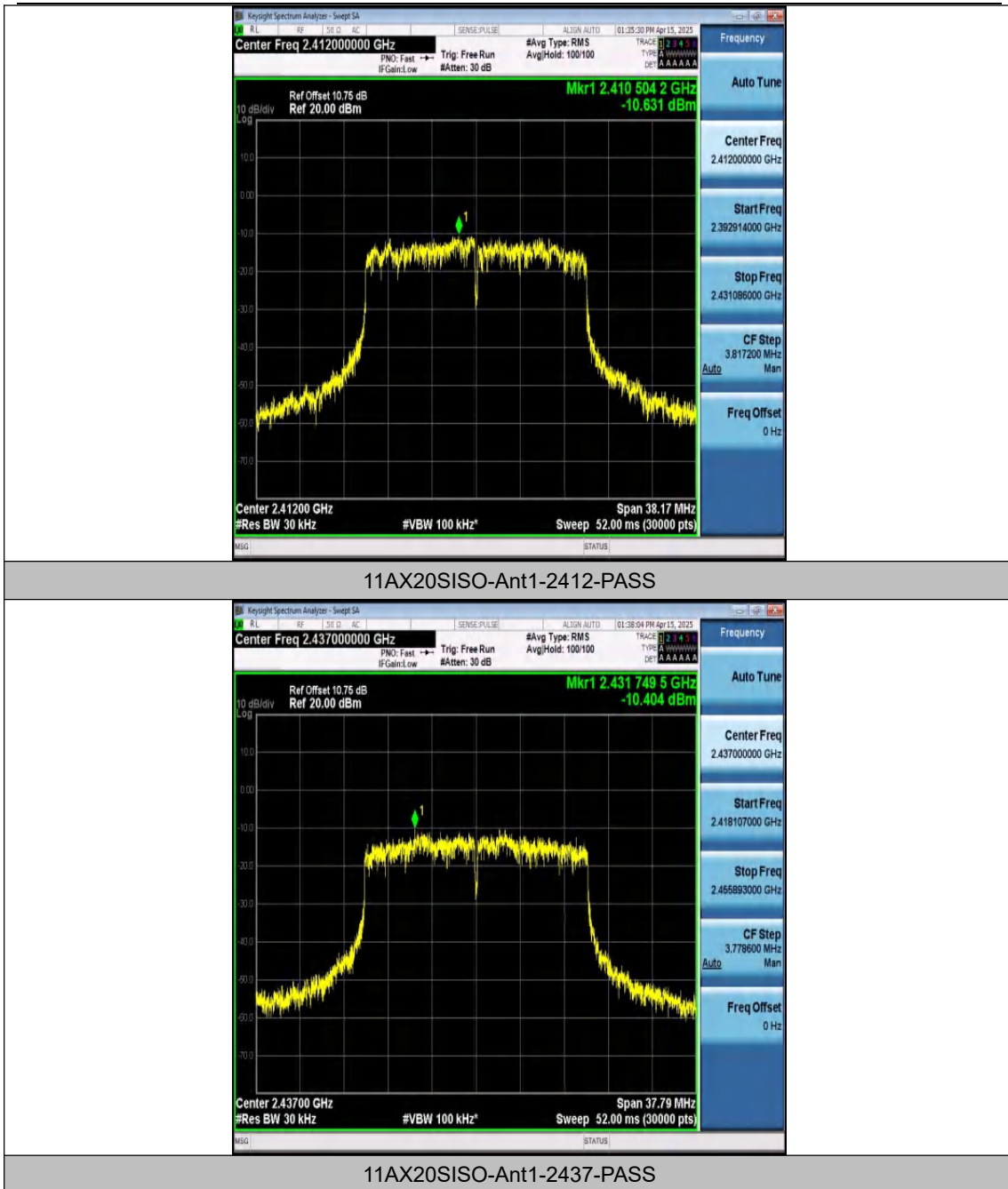
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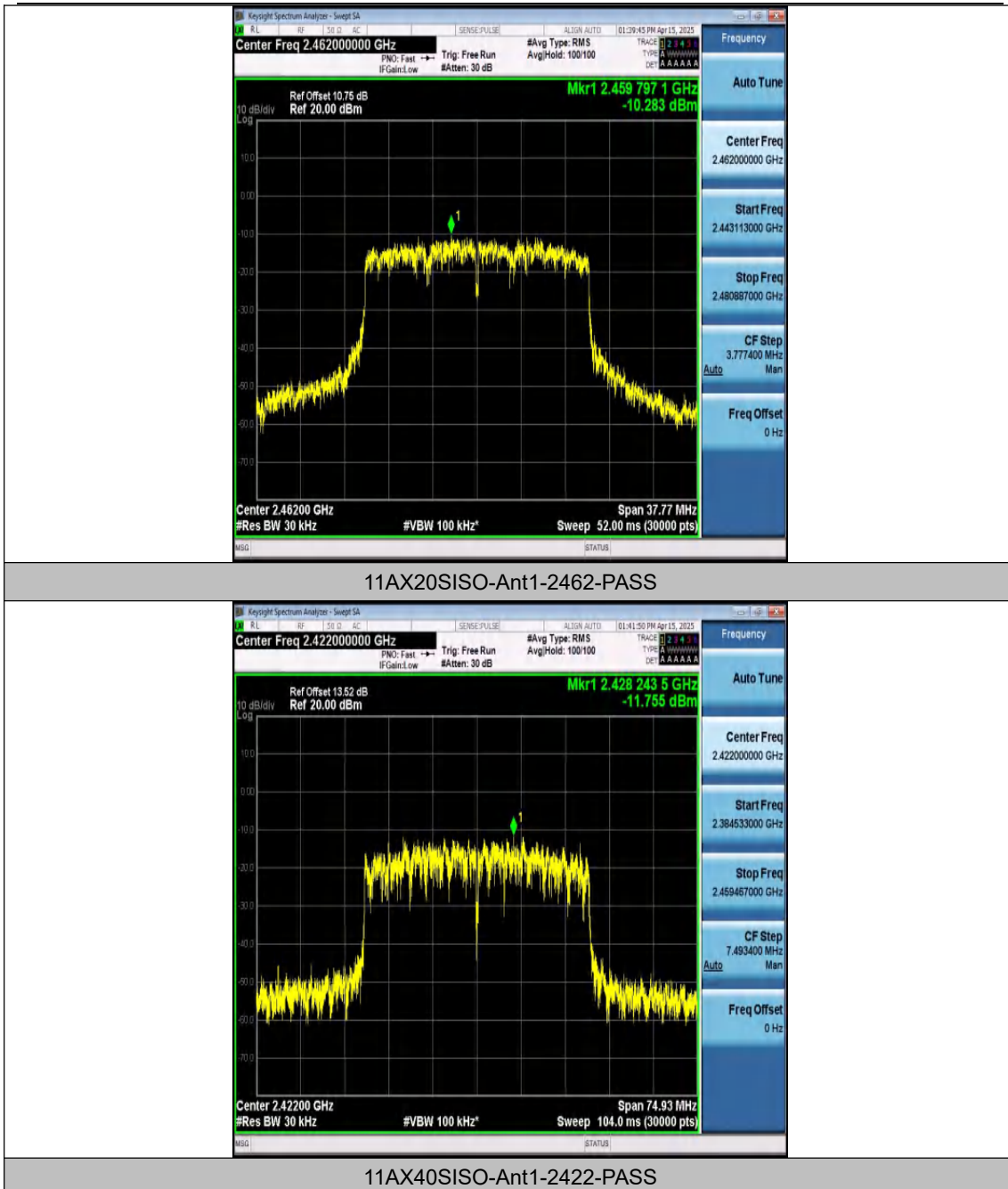
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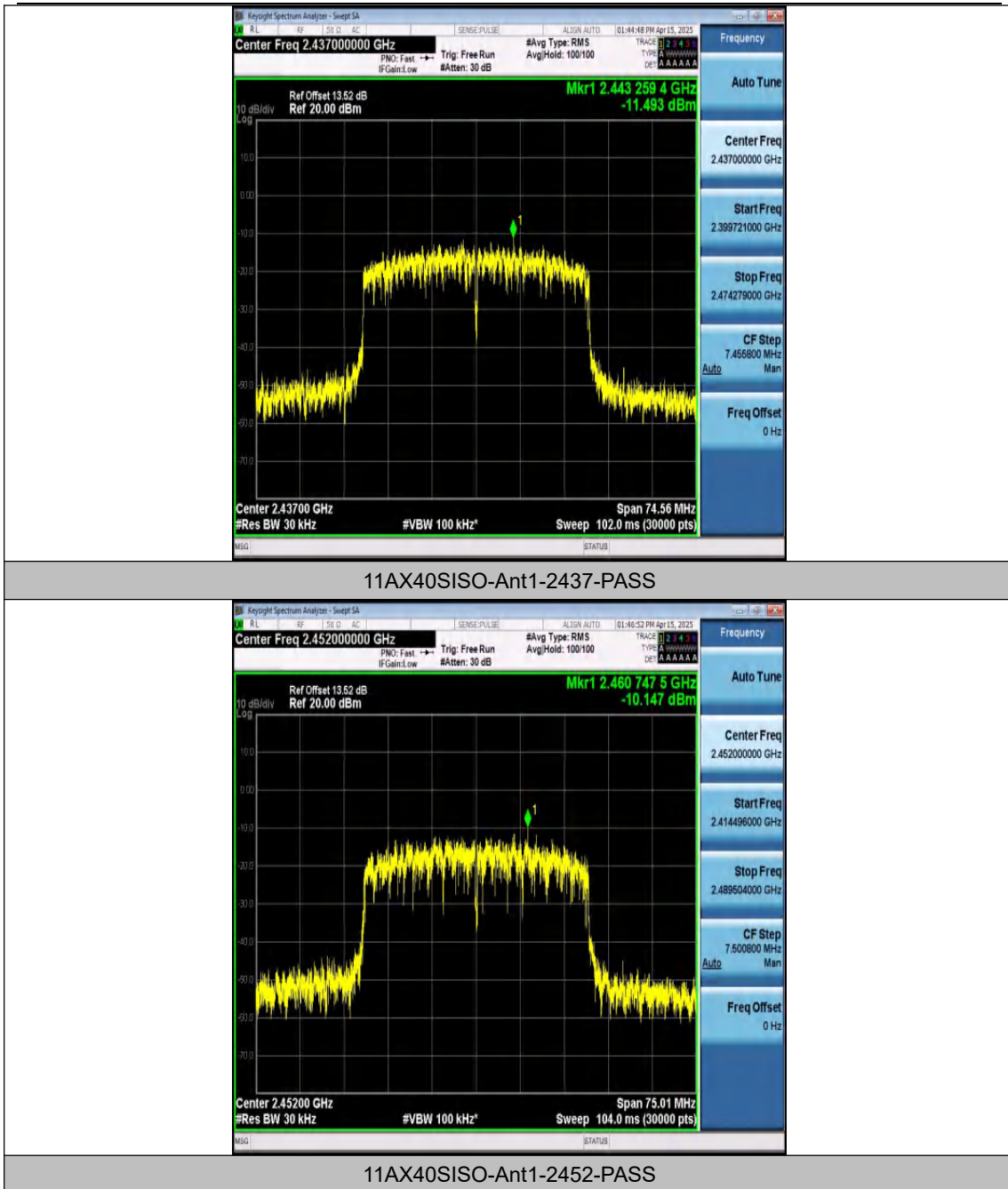
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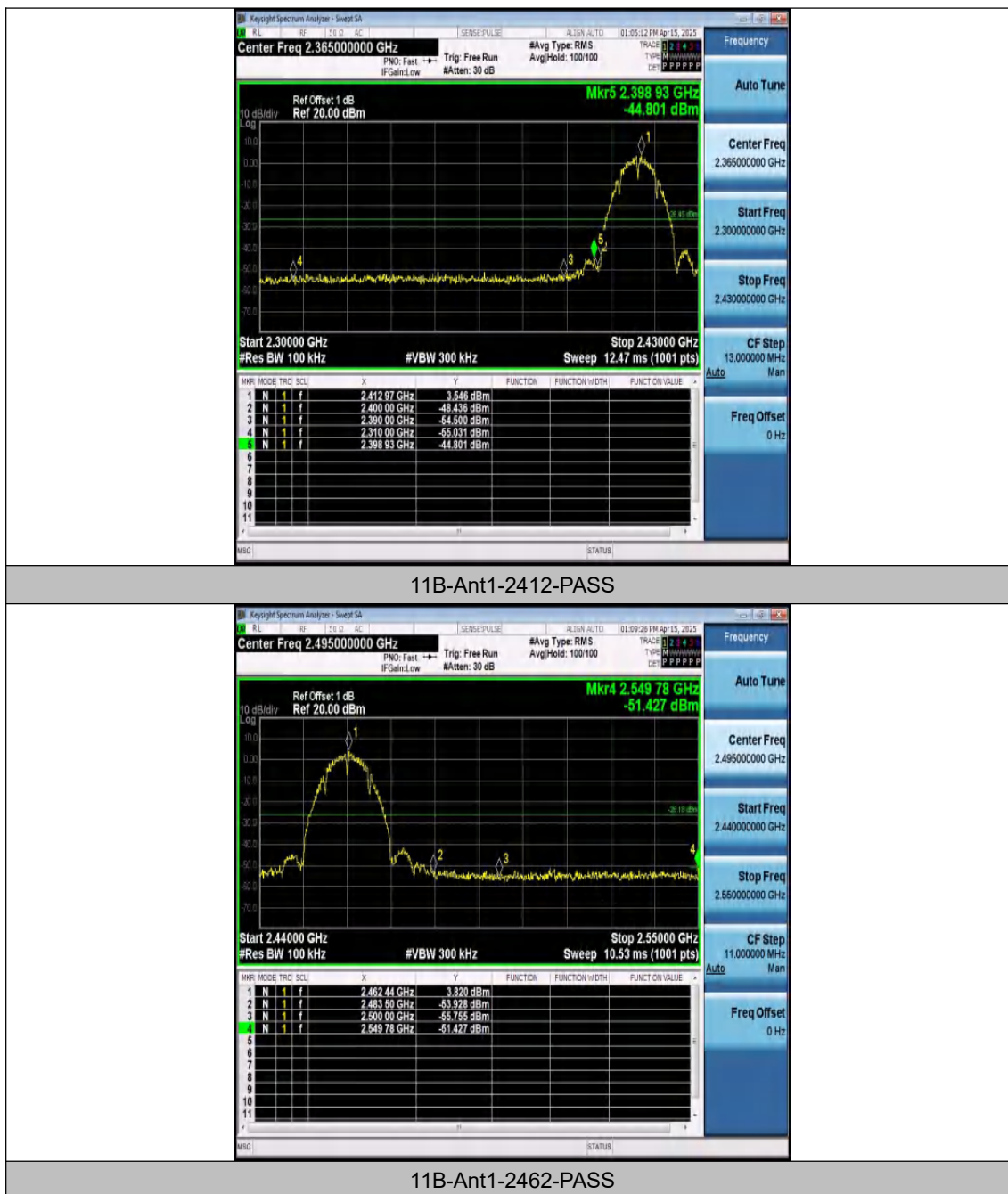
Appendix E: Conducted Band edge

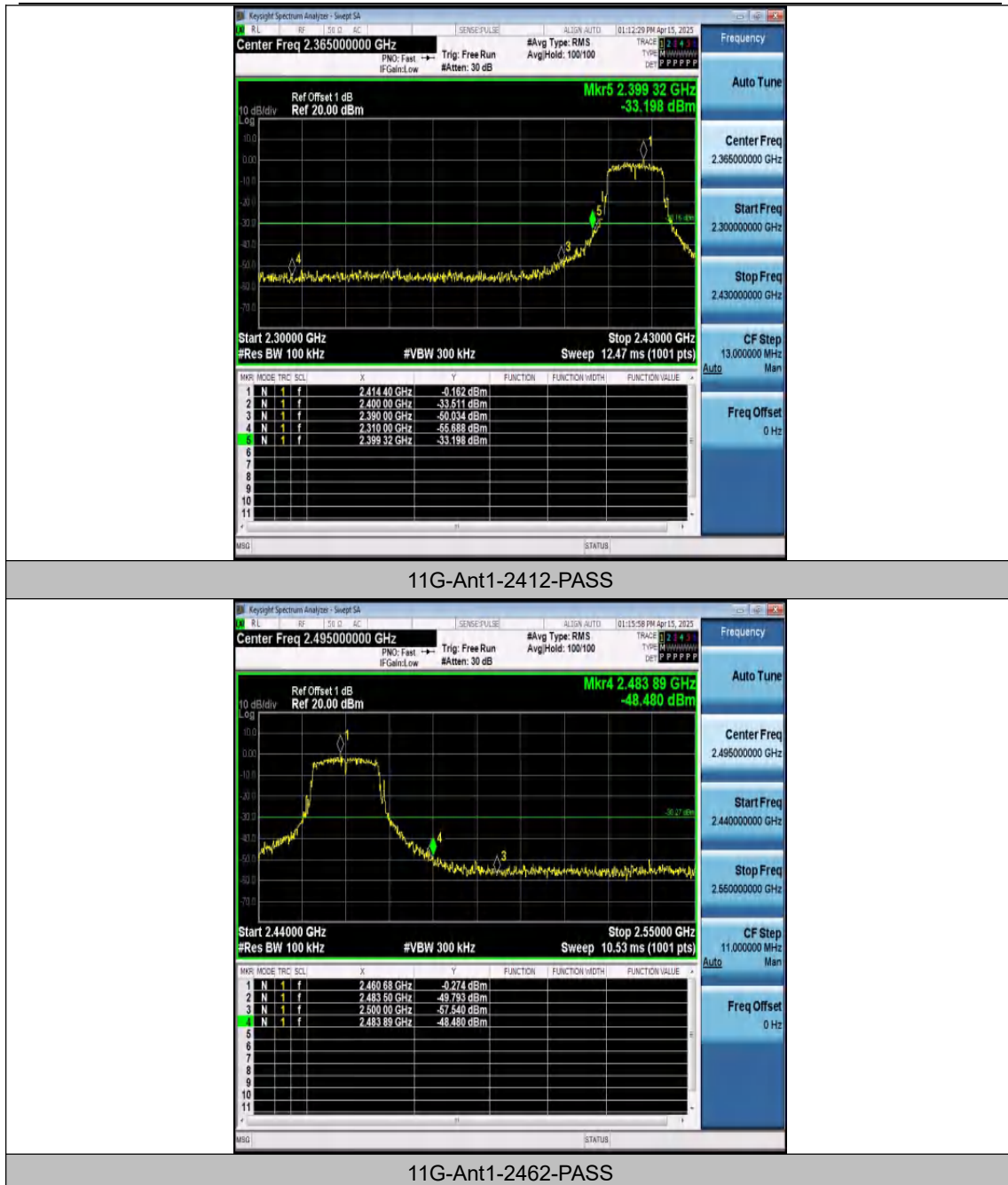
Test Result

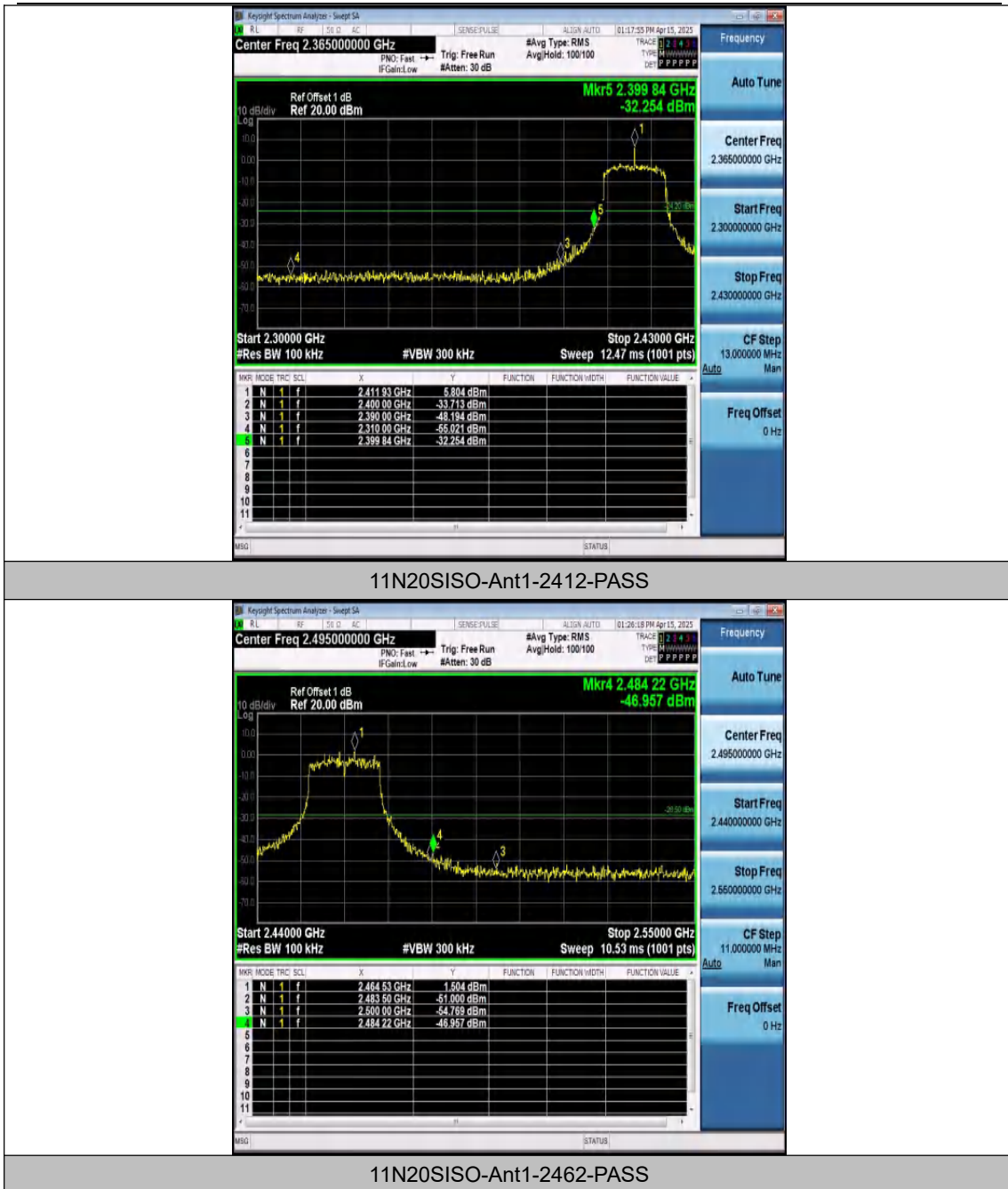
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.55	-44.8	≤-26.45	PASS
11B	Ant1	High	2462	3.82	-51.43	≤-26.18	PASS
11G	Ant1	Low	2412	-0.16	-33.2	≤-30.16	PASS
11G	Ant1	High	2462	-0.27	-48.48	≤-30.27	PASS
11N20SISO	Ant1	Low	2412	5.80	-32.25	≤-24.2	PASS
11N20SISO	Ant1	High	2462	1.50	-46.96	≤-28.5	PASS
11N40SISO	Ant1	Low	2422	-1.29	-35.34	≤-31.29	PASS
11N40SISO	Ant1	High	2452	-0.91	-38.94	≤-30.91	PASS
11AX20SISO	Ant1	Low	2412	-0.79	-34.02	≤-30.79	PASS
11AX20SISO	Ant1	High	2462	0.00	-46.06	≤-30	PASS
11AX40SISO	Ant1	Low	2422	-2.27	-35.42	≤-32.27	PASS
11AX40SISO	Ant1	High	2452	-1.01	-38.4	≤-31.01	PASS



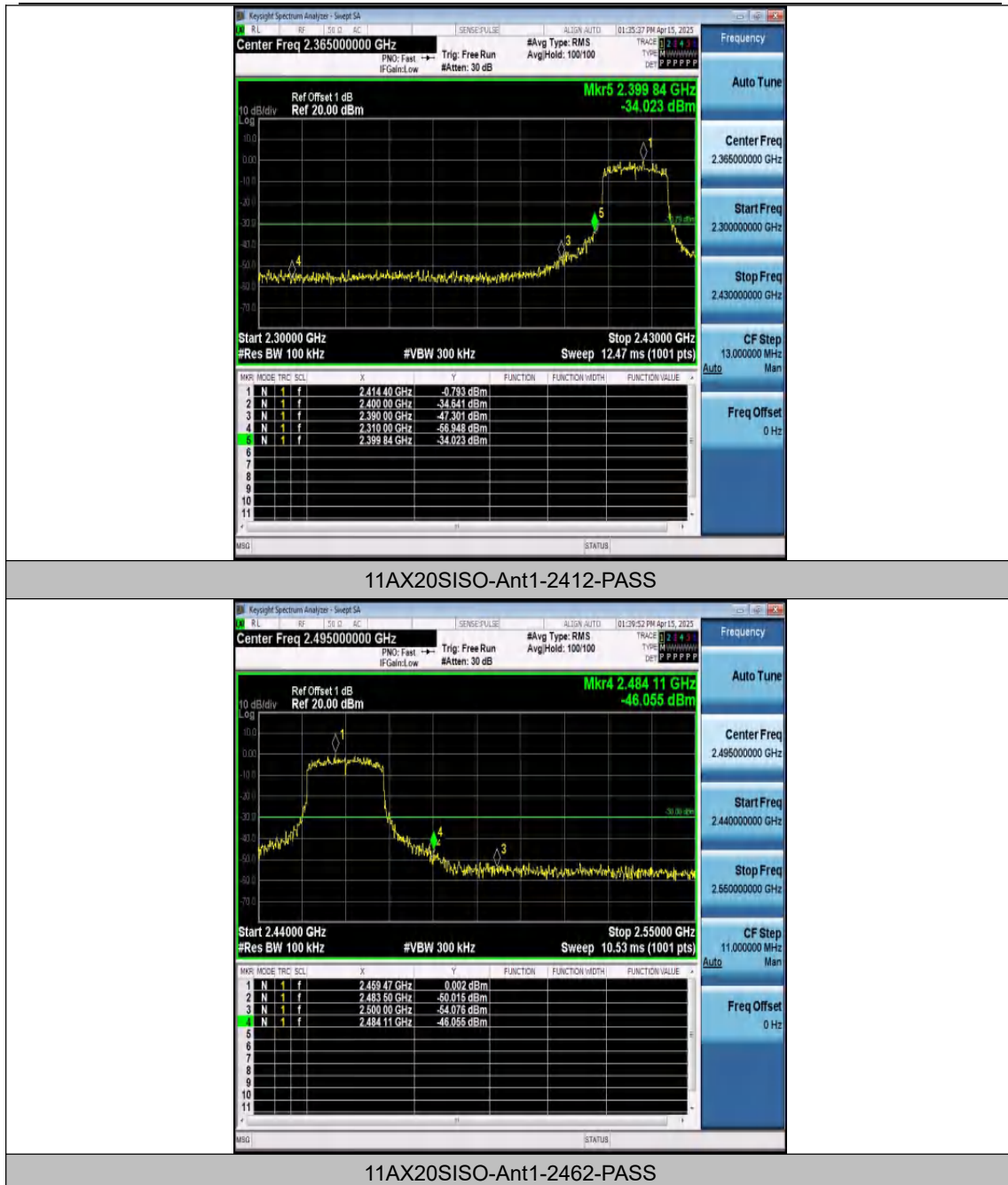
Test Graphs













Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.41	2.41	---	PASS
11B	Ant1	2412	30~1000	2.41	-59.09	≤-27.59	PASS
11B	Ant1	2412	1000~26500	2.41	-39.61	≤-27.59	PASS
11B	Ant1	2437	0~Reference	1.74	1.74	---	PASS
11B	Ant1	2437	30~1000	1.74	-59.01	≤-28.26	PASS
11B	Ant1	2437	1000~26500	1.74	-39.15	≤-28.26	PASS
11B	Ant1	2462	0~Reference	2.91	2.91	---	PASS
11B	Ant1	2462	30~1000	2.91	-58.88	≤-27.09	PASS
11B	Ant1	2462	1000~26500	2.91	-39.04	≤-27.09	PASS
11G	Ant1	2412	0~Reference	-1.88	-1.88	---	PASS
11G	Ant1	2412	30~1000	-1.88	-59.3	≤-31.88	PASS
11G	Ant1	2412	1000~26500	-1.88	-41.52	≤-31.88	PASS
11G	Ant1	2437	0~Reference	1.61	1.61	---	PASS
11G	Ant1	2437	30~1000	1.61	-61.24	≤-28.39	PASS
11G	Ant1	2437	1000~26500	1.61	-42.89	≤-28.39	PASS
11G	Ant1	2462	0~Reference	1.31	1.31	---	PASS
11G	Ant1	2462	30~1000	1.31	-60.35	≤-28.69	PASS
11G	Ant1	2462	1000~26500	1.31	-41.67	≤-28.69	PASS
11N20SISO	Ant1	2412	0~Reference	1.79	1.79	---	PASS
11N20SISO	Ant1	2412	30~1000	1.79	-59.36	≤-28.21	PASS
11N20SISO	Ant1	2412	1000~26500	1.79	-42.03	≤-28.21	PASS
11N20SISO	Ant1	2437	0~Reference	1.70	1.70	---	PASS
11N20SISO	Ant1	2437	30~1000	1.70	-59.68	≤-28.3	PASS
11N20SISO	Ant1	2437	1000~26500	1.70	-40.19	≤-28.3	PASS
11N20SISO	Ant1	2462	0~Reference	0.94	0.94	---	PASS
11N20SISO	Ant1	2462	30~1000	0.94	-59.04	≤-29.06	PASS
11N20SISO	Ant1	2462	1000~26500	0.94	-41.79	≤-29.06	PASS
11N40SISO	Ant1	2422	0~Reference	-1.84	-1.84	---	PASS
11N40SISO	Ant1	2422	30~1000	-1.84	-59.26	≤-31.84	PASS
11N40SISO	Ant1	2422	1000~26500	-1.84	-44.04	≤-31.84	PASS
11N40SISO	Ant1	2437	0~Reference	-1.66	-1.66	---	PASS
11N40SISO	Ant1	2437	30~1000	-1.66	-58.56	≤-31.66	PASS
11N40SISO	Ant1	2437	1000~26500	-1.66	-44.54	≤-31.66	PASS
11N40SISO	Ant1	2452	0~Reference	-3.16	-3.16	---	PASS
11N40SISO	Ant1	2452	30~1000	-3.16	-59.3	≤-33.16	PASS
11N40SISO	Ant1	2452	1000~26500	-3.16	-42.6	≤-33.16	PASS



11AX20SISO	Ant1	2412	0~Reference	0.72	0.72	---	PASS
11AX20SISO	Ant1	2412	30~1000	0.72	-59.03	≤-29.28	PASS
11AX20SISO	Ant1	2412	1000~26500	0.72	-43.5	≤-29.28	PASS
11AX20SISO	Ant1	2437	0~Reference	1.44	1.44	---	PASS
11AX20SISO	Ant1	2437	30~1000	1.44	-60.06	≤-28.56	PASS
11AX20SISO	Ant1	2437	1000~26500	1.44	-39.87	≤-28.56	PASS
11AX20SISO	Ant1	2462	0~Reference	1.44	1.44	---	PASS
11AX20SISO	Ant1	2462	30~1000	1.44	-58.43	≤-28.56	PASS
11AX20SISO	Ant1	2462	1000~26500	1.44	-37.88	≤-28.56	PASS
11AX40SISO	Ant1	2422	0~Reference	-1.32	-1.32	---	PASS
11AX40SISO	Ant1	2422	30~1000	-1.32	-60.15	≤-31.32	PASS
11AX40SISO	Ant1	2422	1000~26500	-1.32	-44.69	≤-31.32	PASS
11AX40SISO	Ant1	2437	0~Reference	-1.15	-1.15	---	PASS
11AX40SISO	Ant1	2437	30~1000	-1.15	-60.57	≤-31.15	PASS
11AX40SISO	Ant1	2437	1000~26500	-1.15	-45.16	≤-31.15	PASS
11AX40SISO	Ant1	2452	0~Reference	-1.07	-1.07	---	PASS
11AX40SISO	Ant1	2452	30~1000	-1.07	-60.51	≤-31.07	PASS
11AX40SISO	Ant1	2452	1000~26500	-1.07	-43.23	≤-31.07	PASS

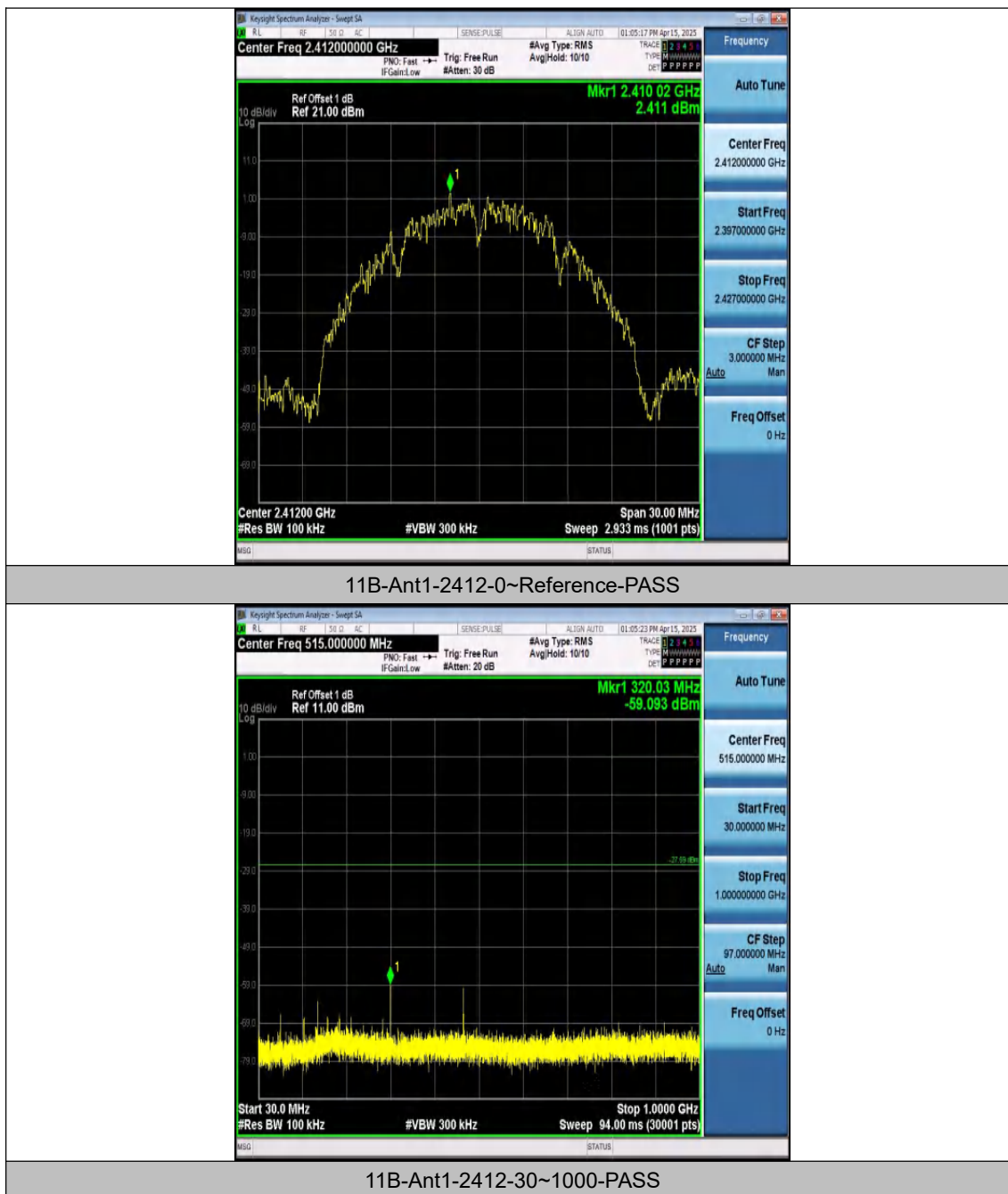
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Test Graphs



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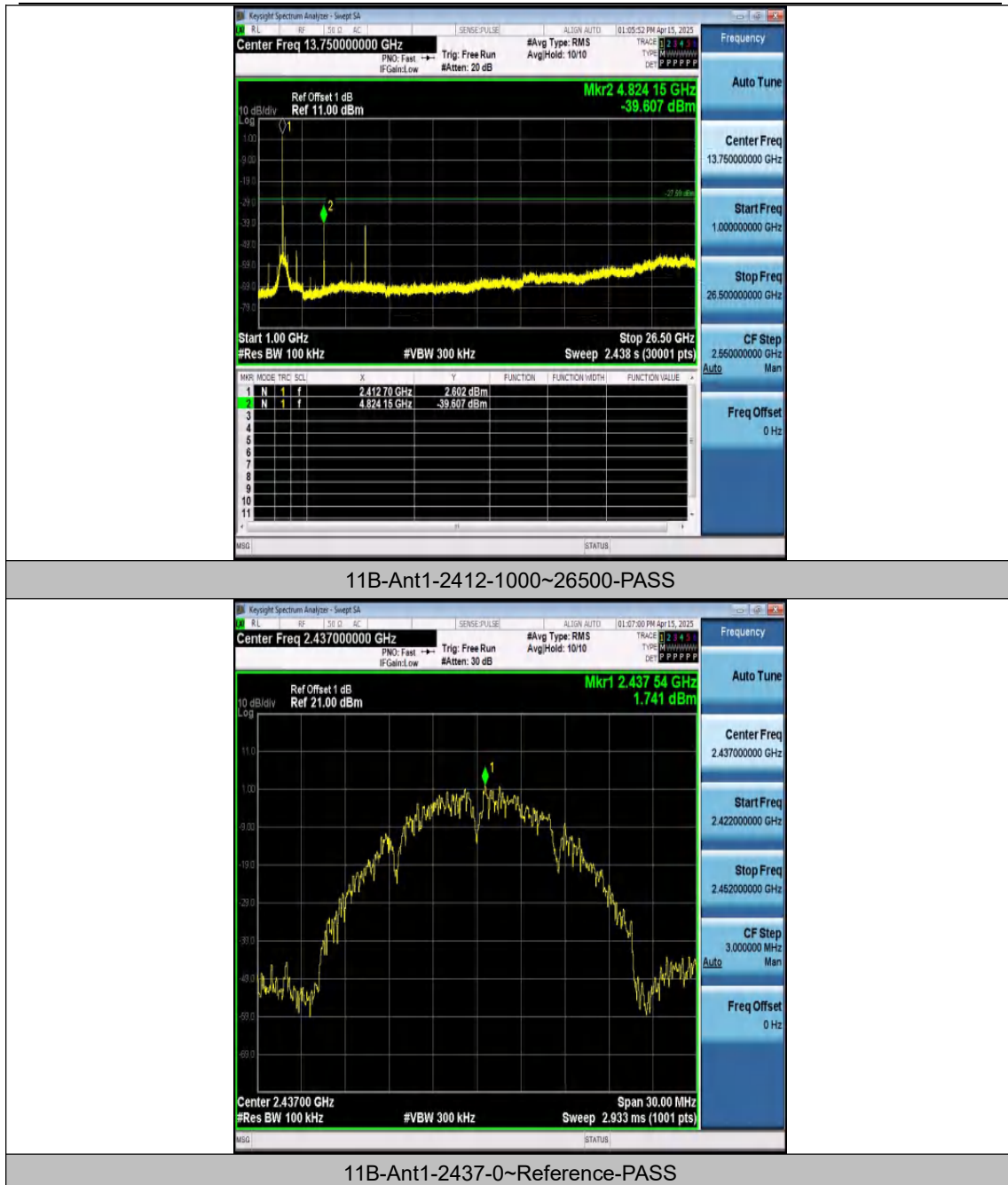
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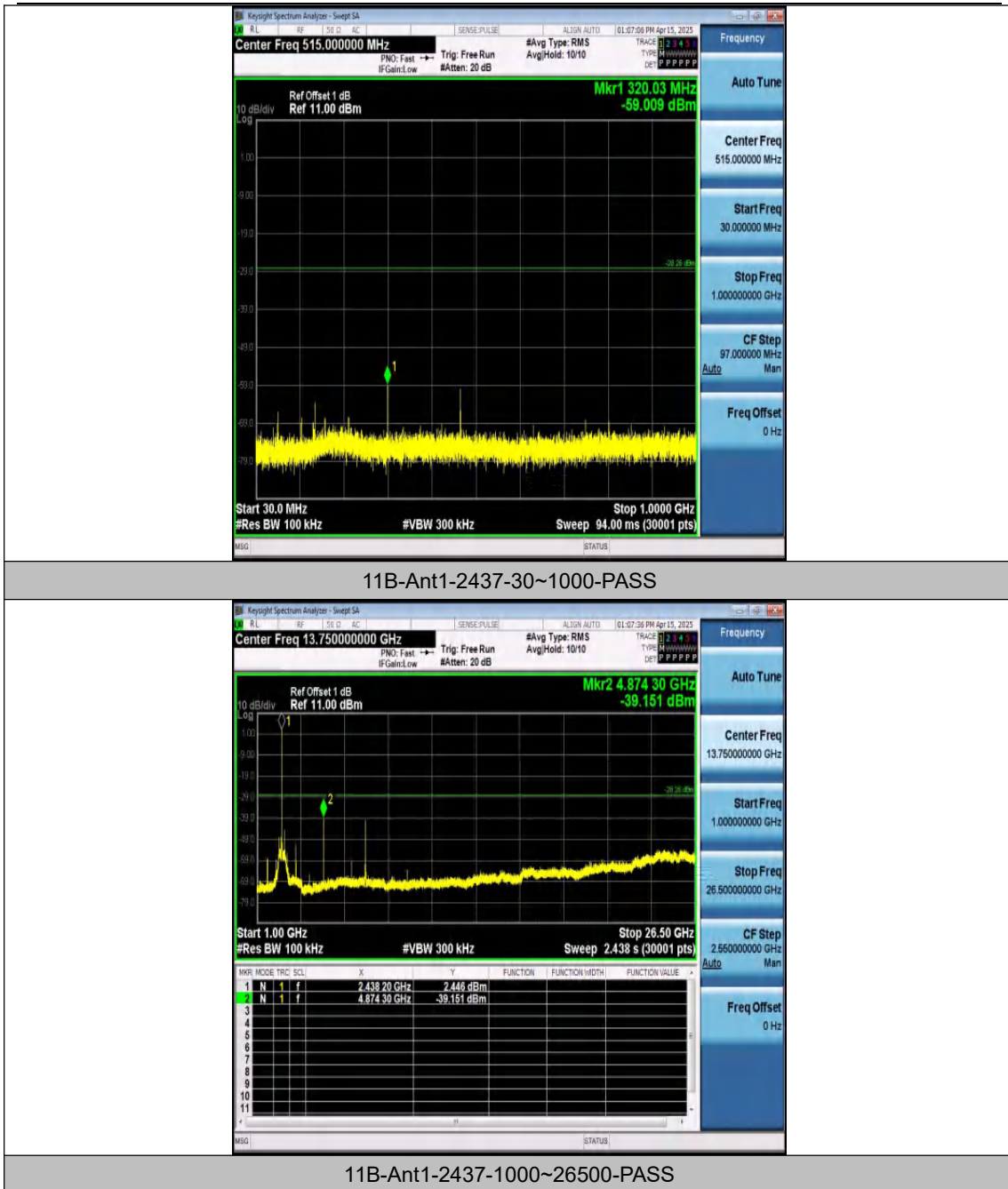
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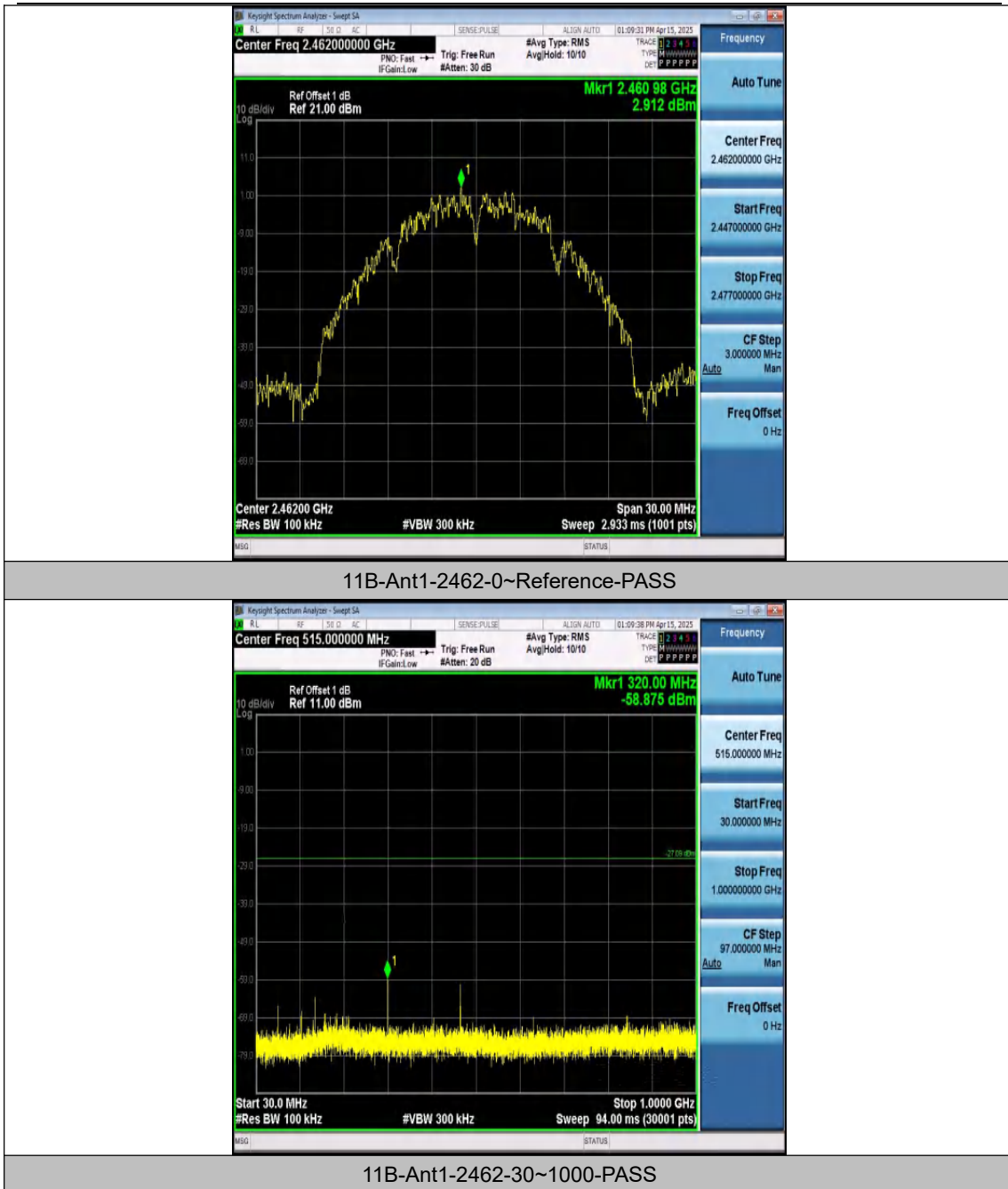


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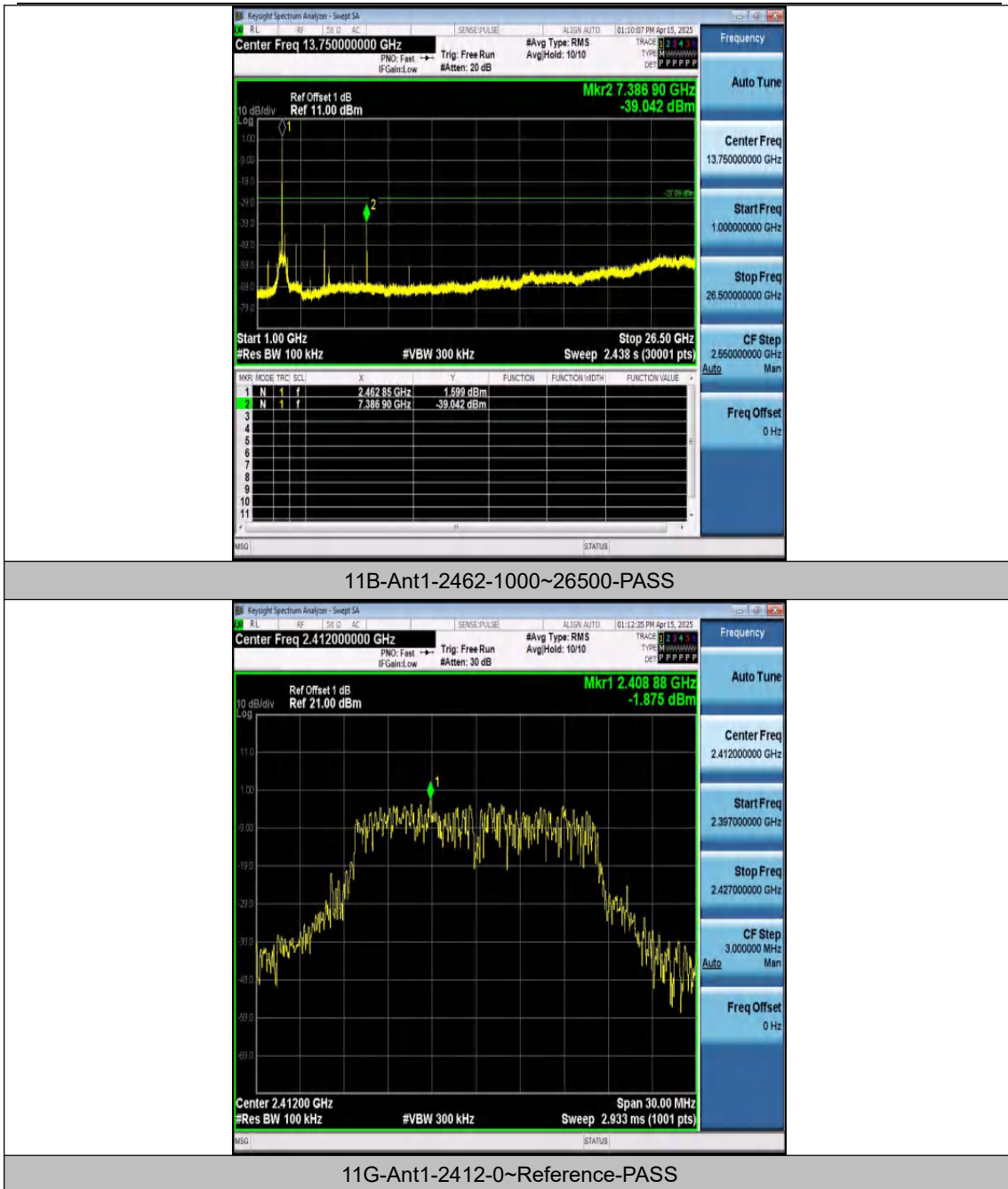




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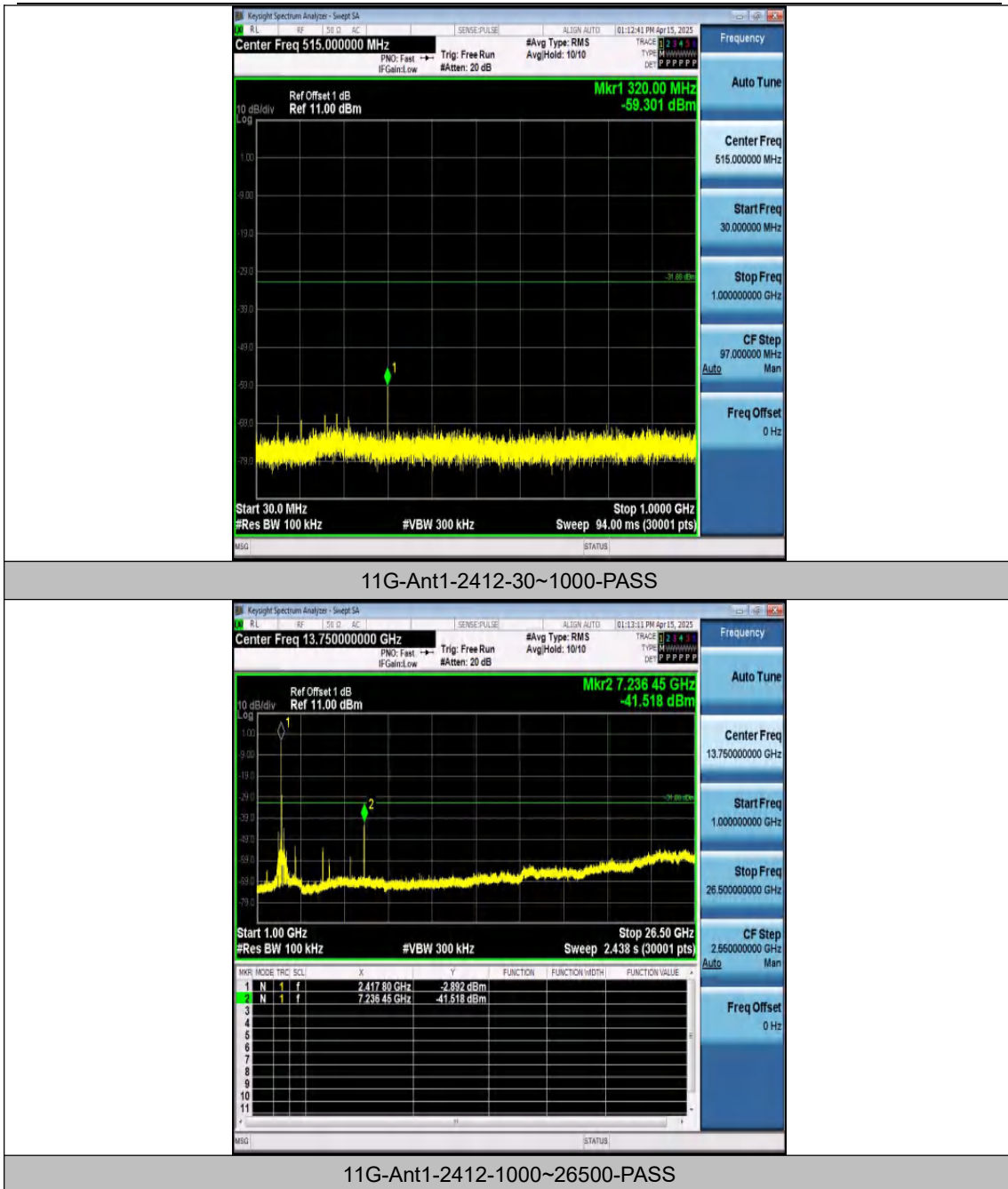


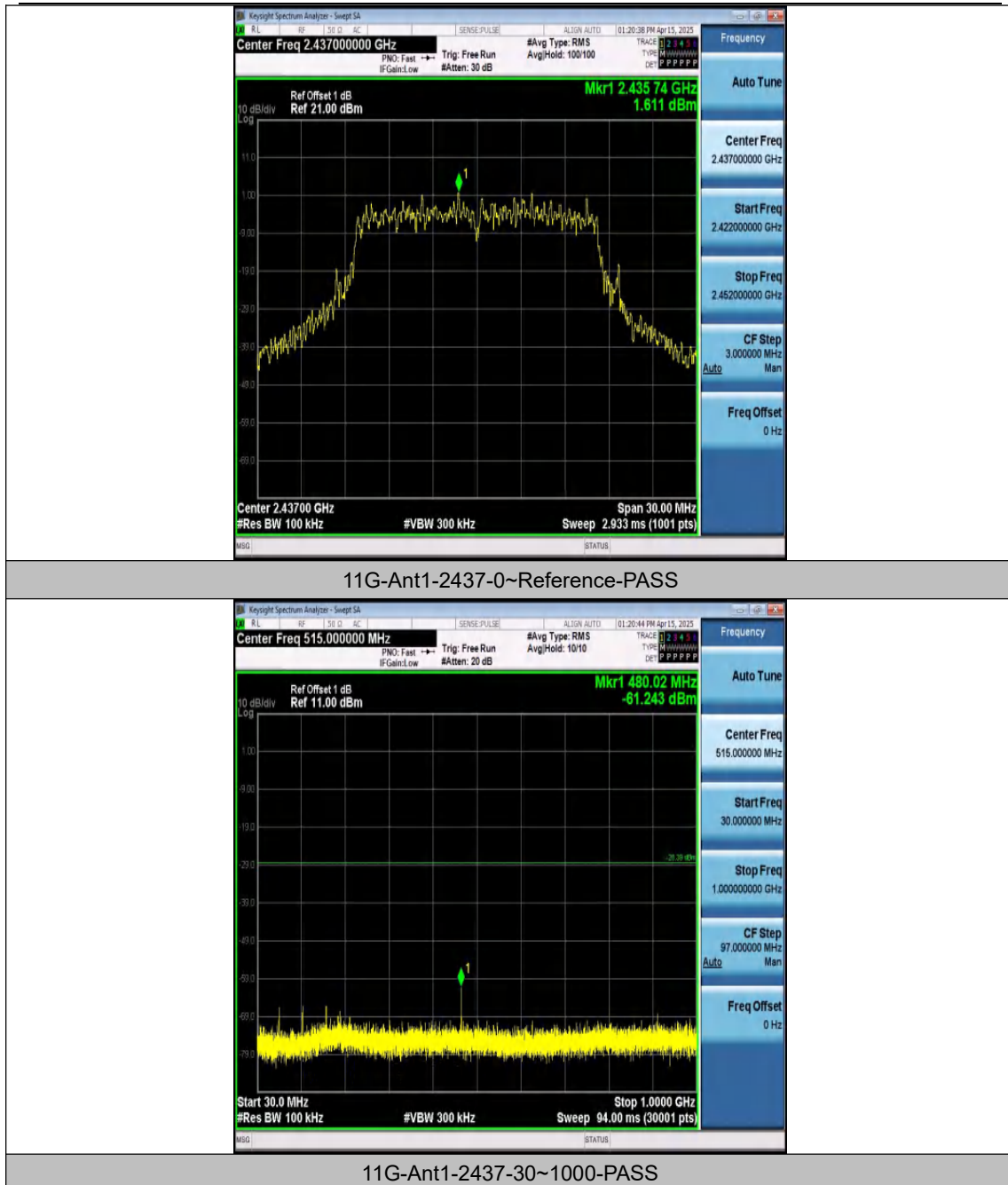
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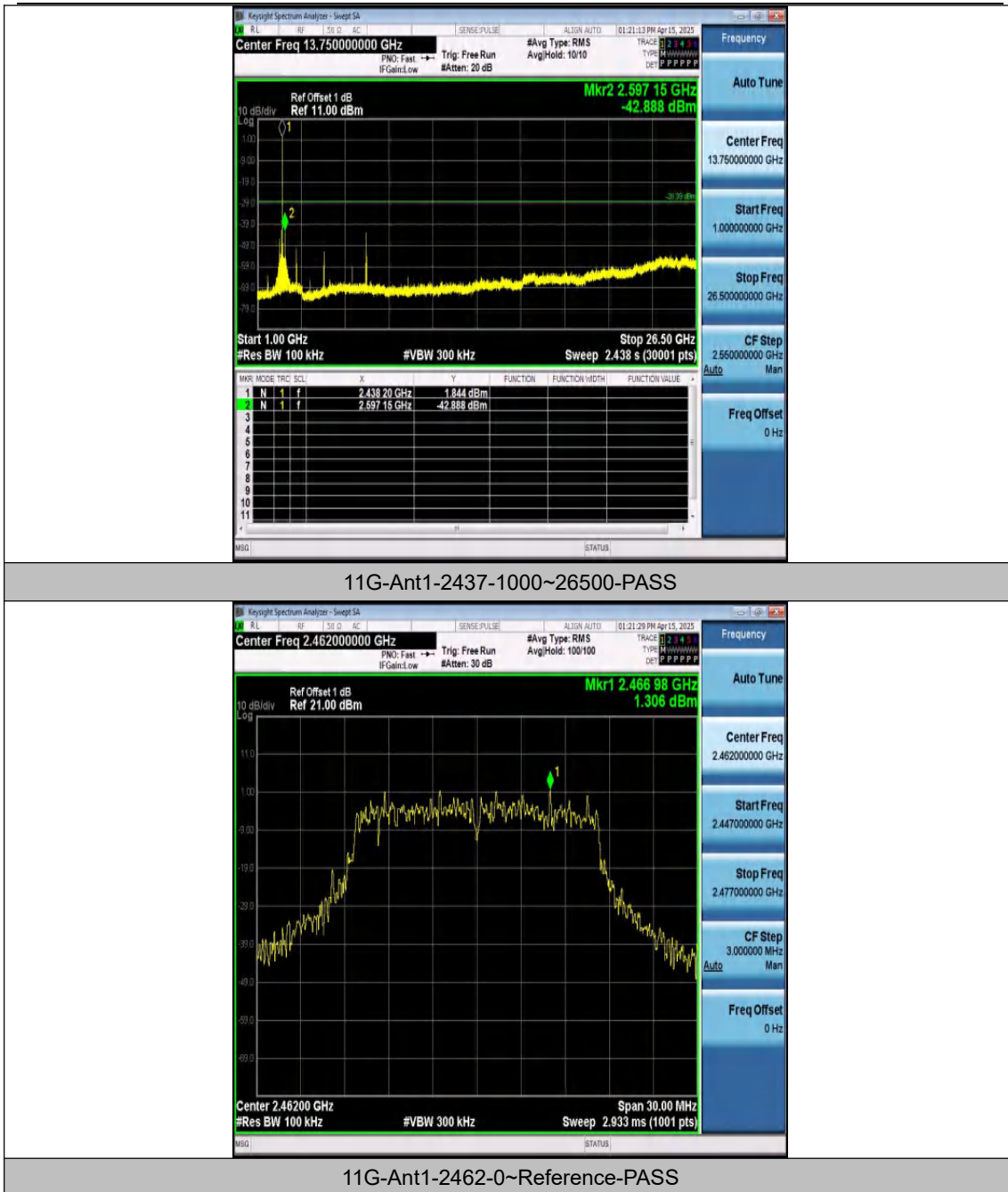




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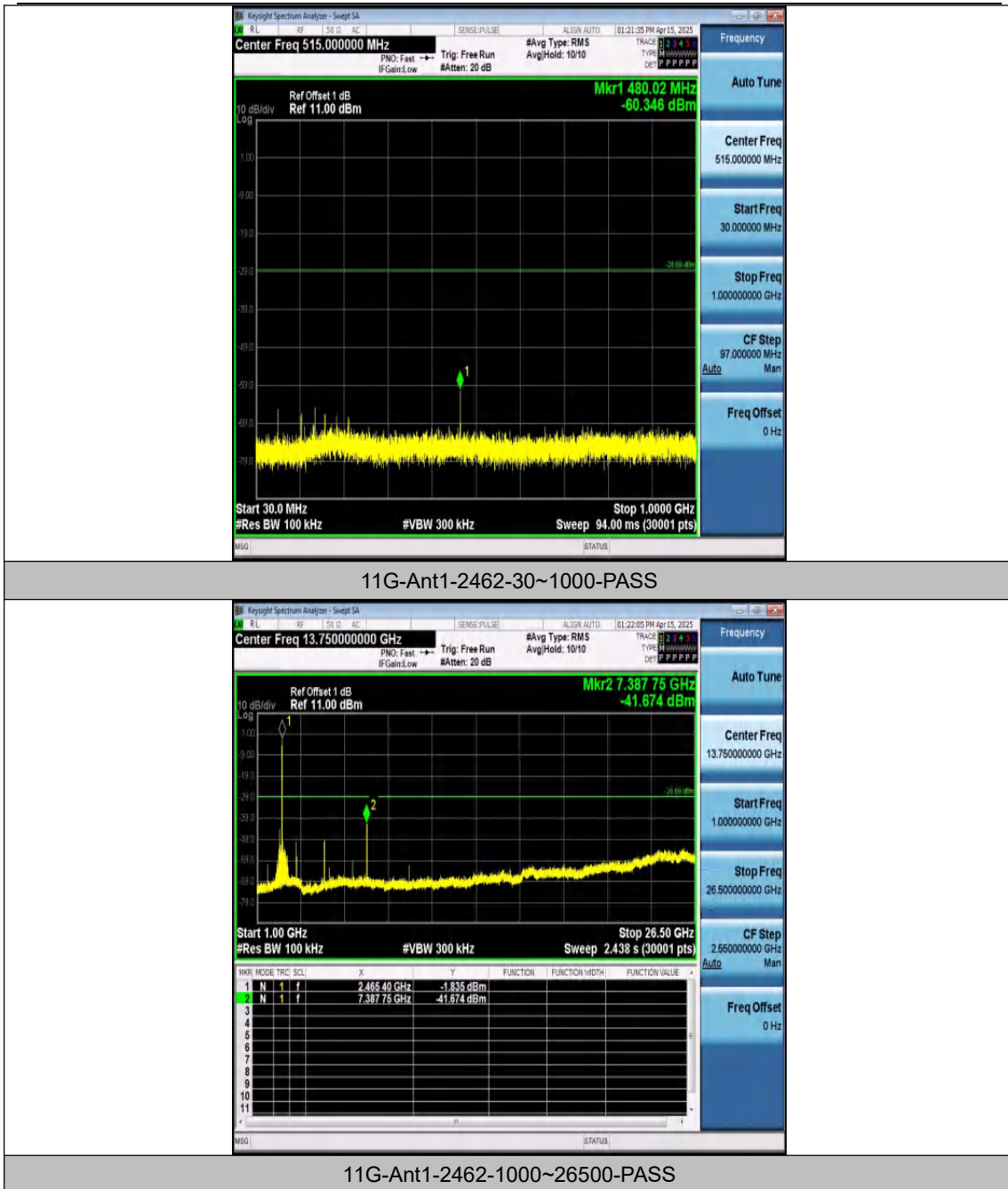
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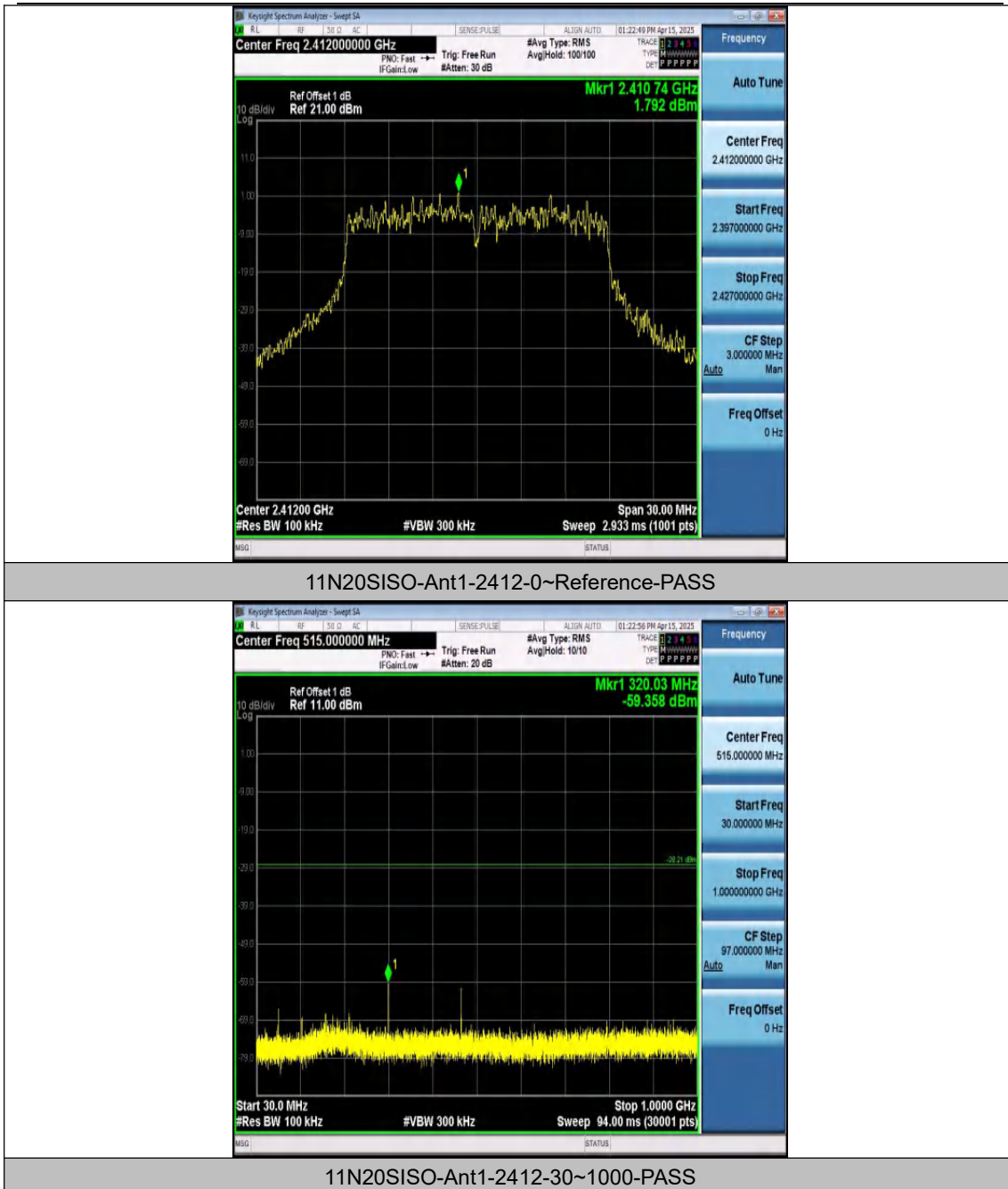
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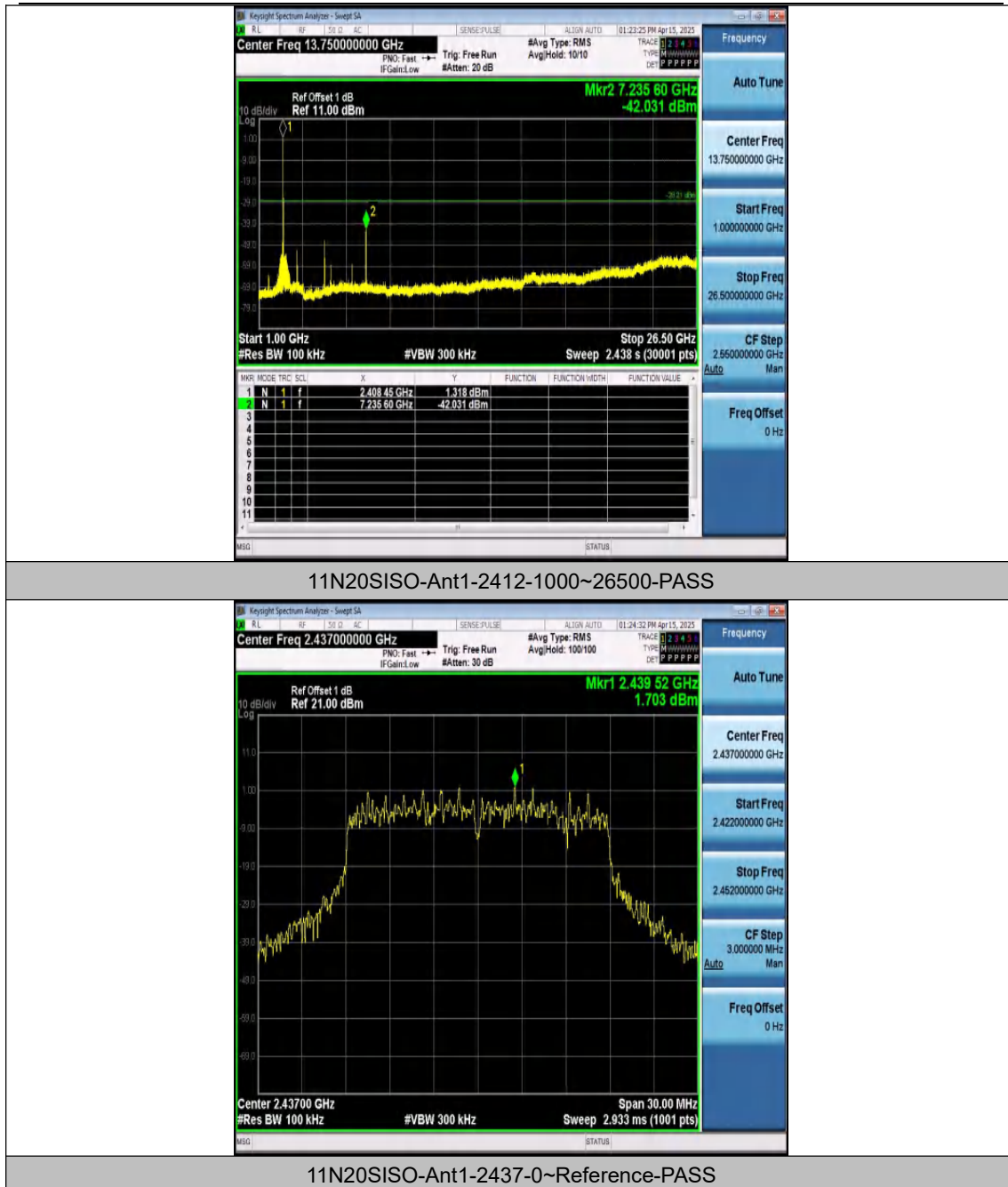
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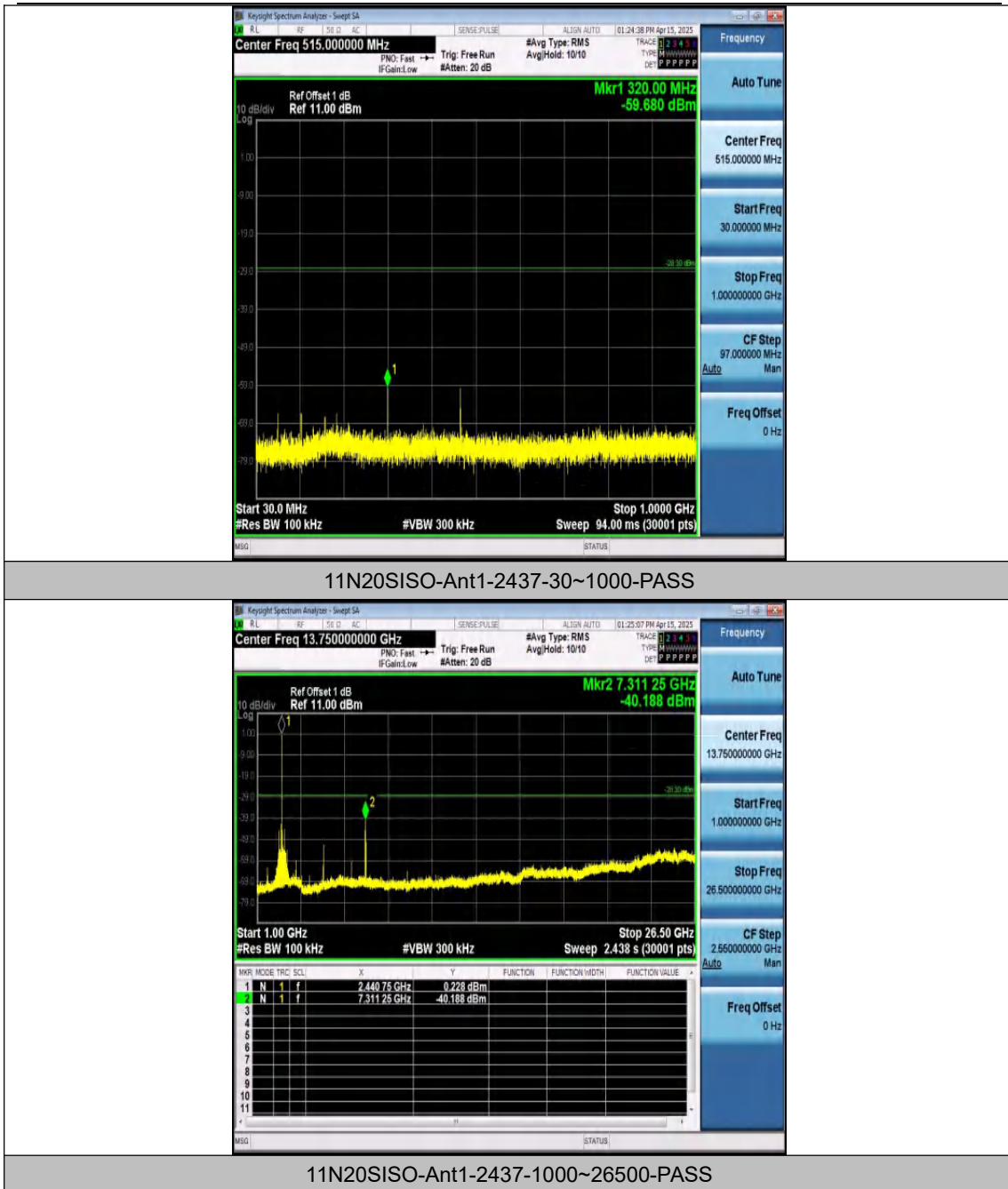
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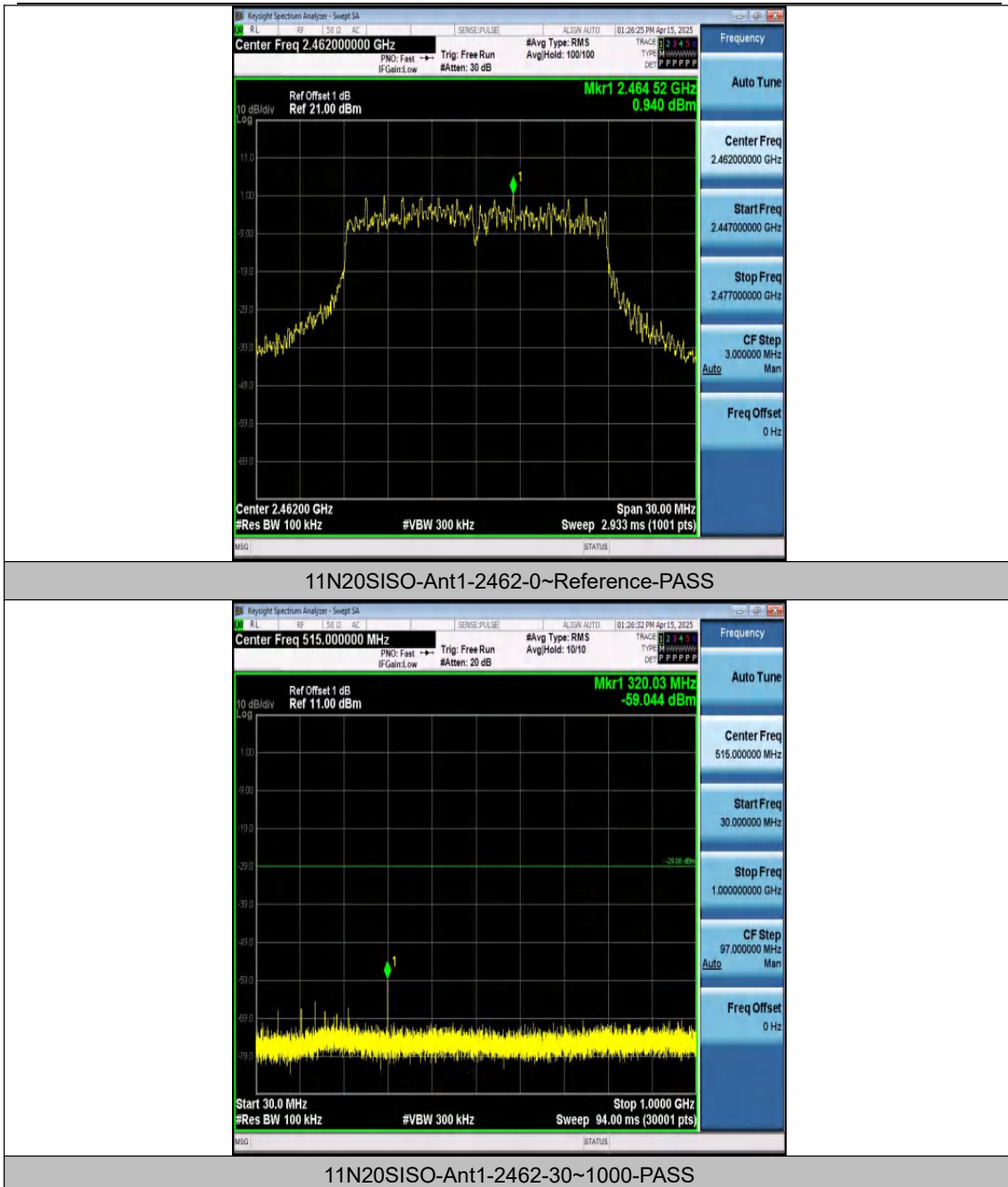
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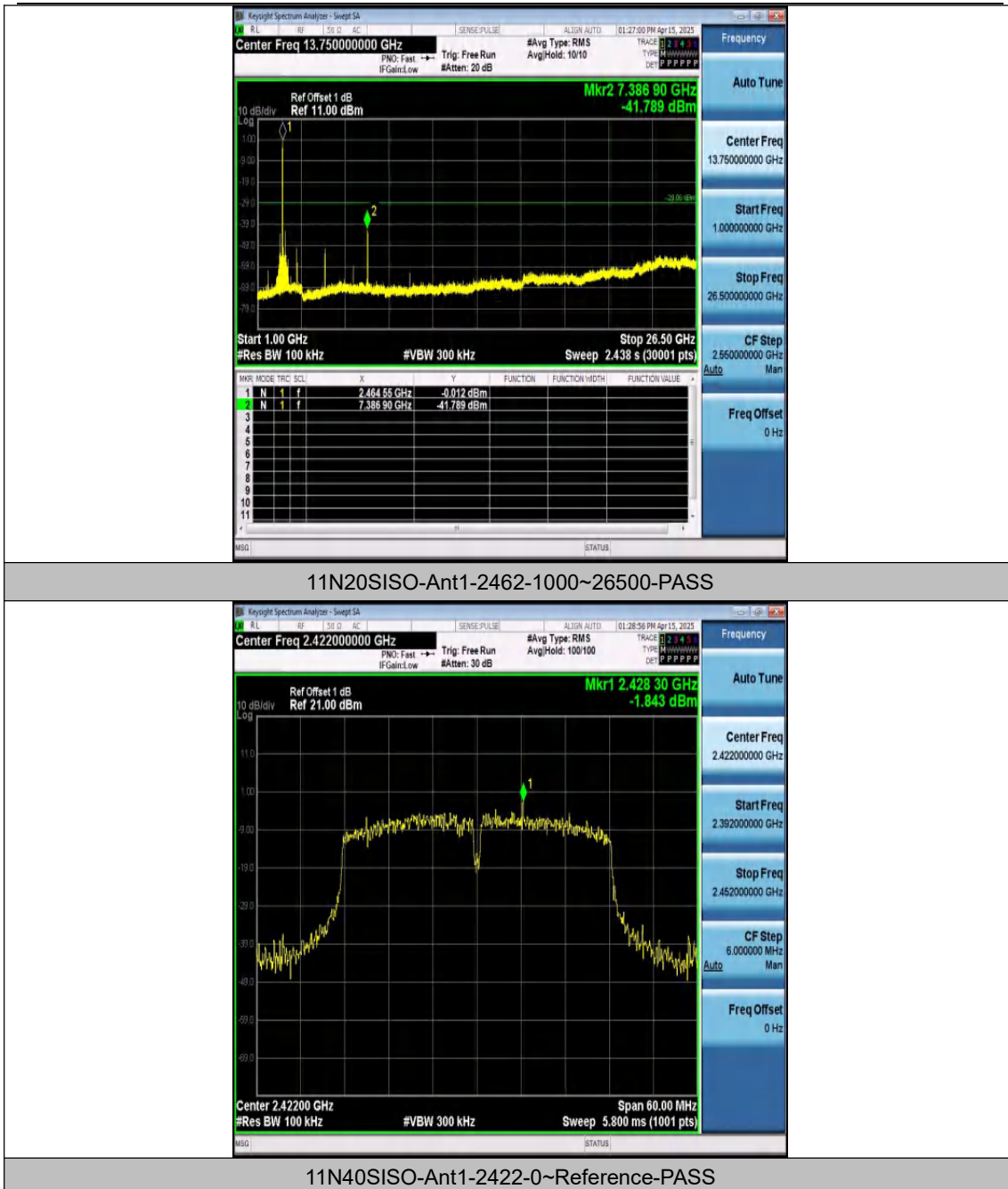
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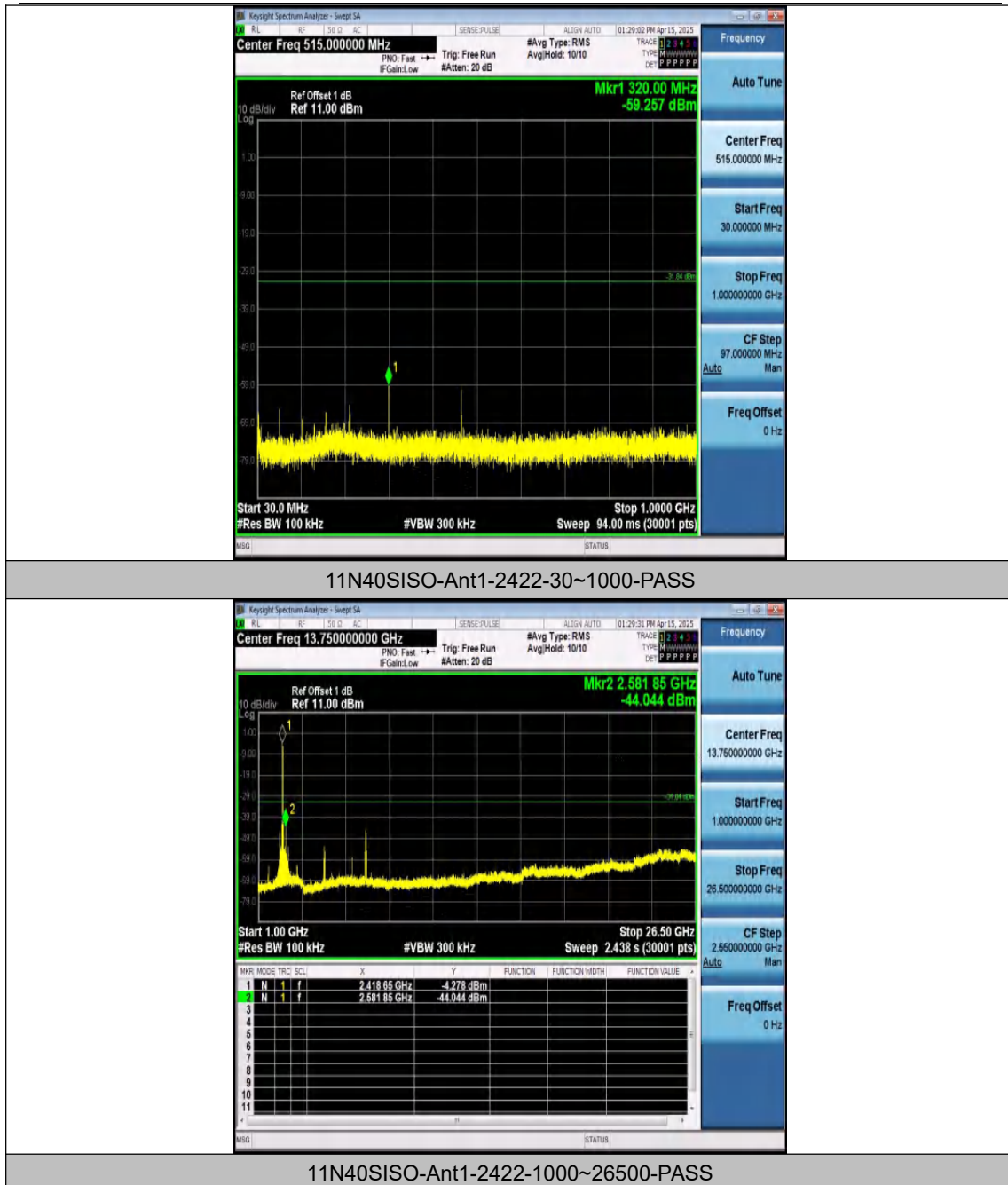
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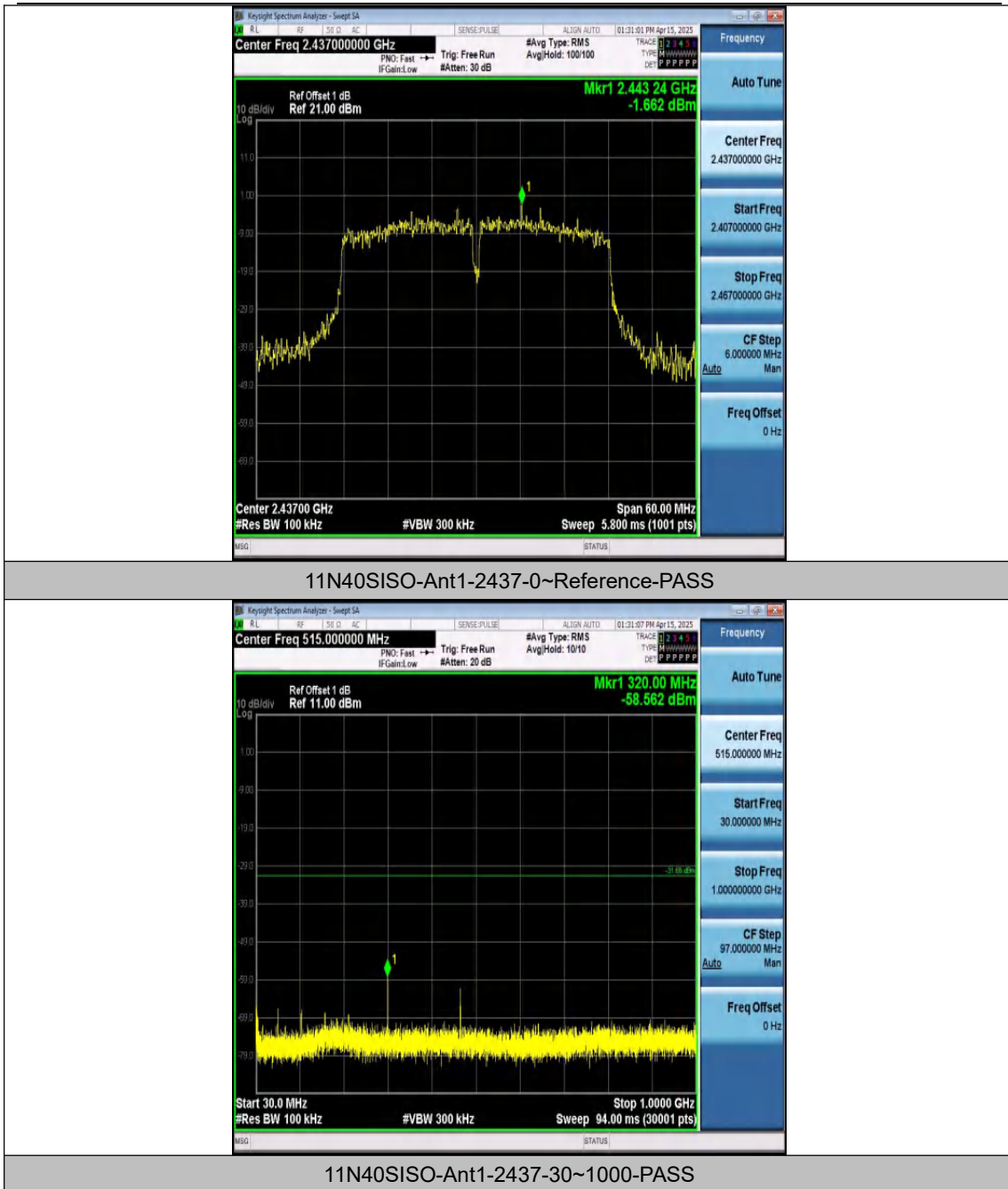


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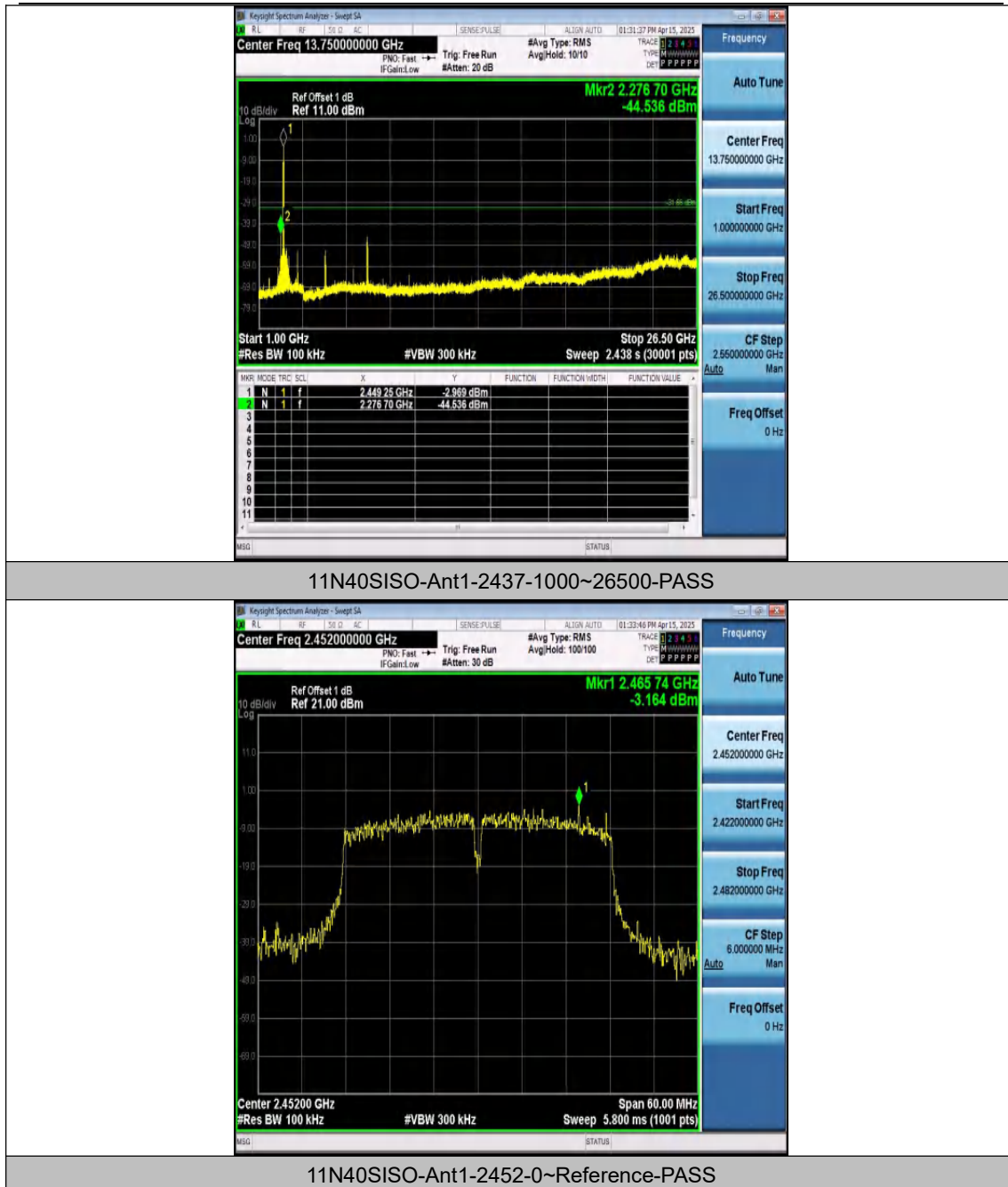


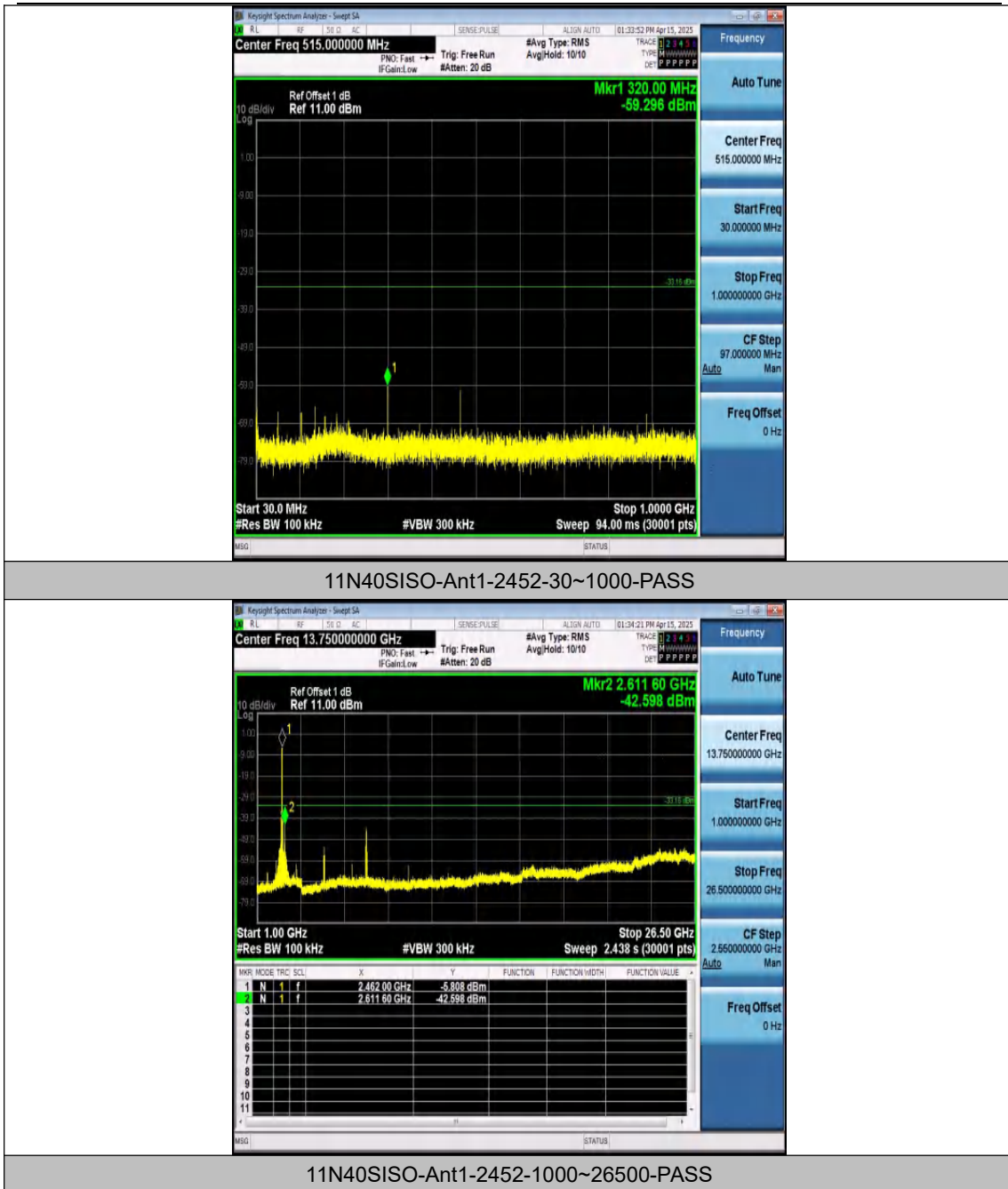


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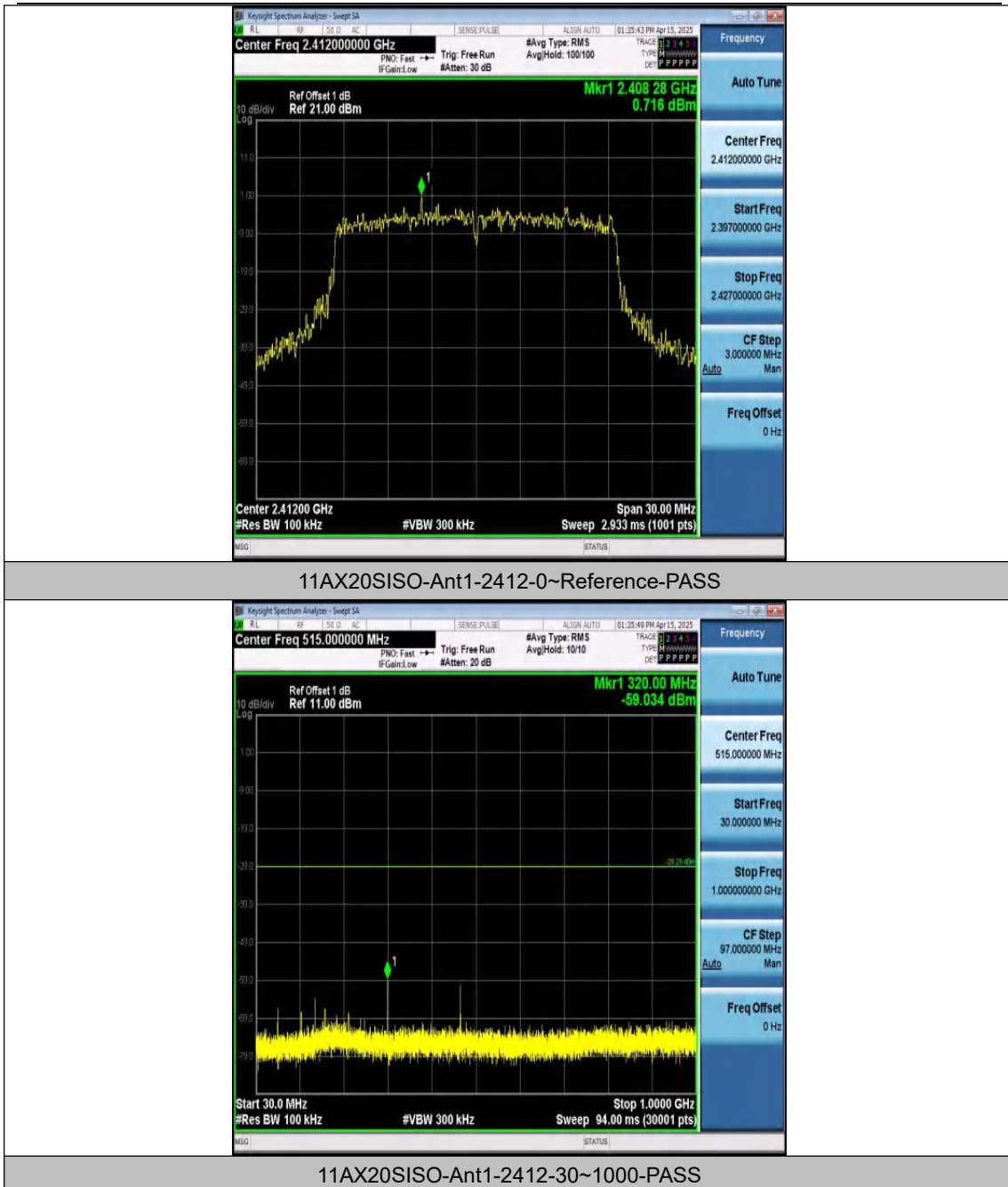


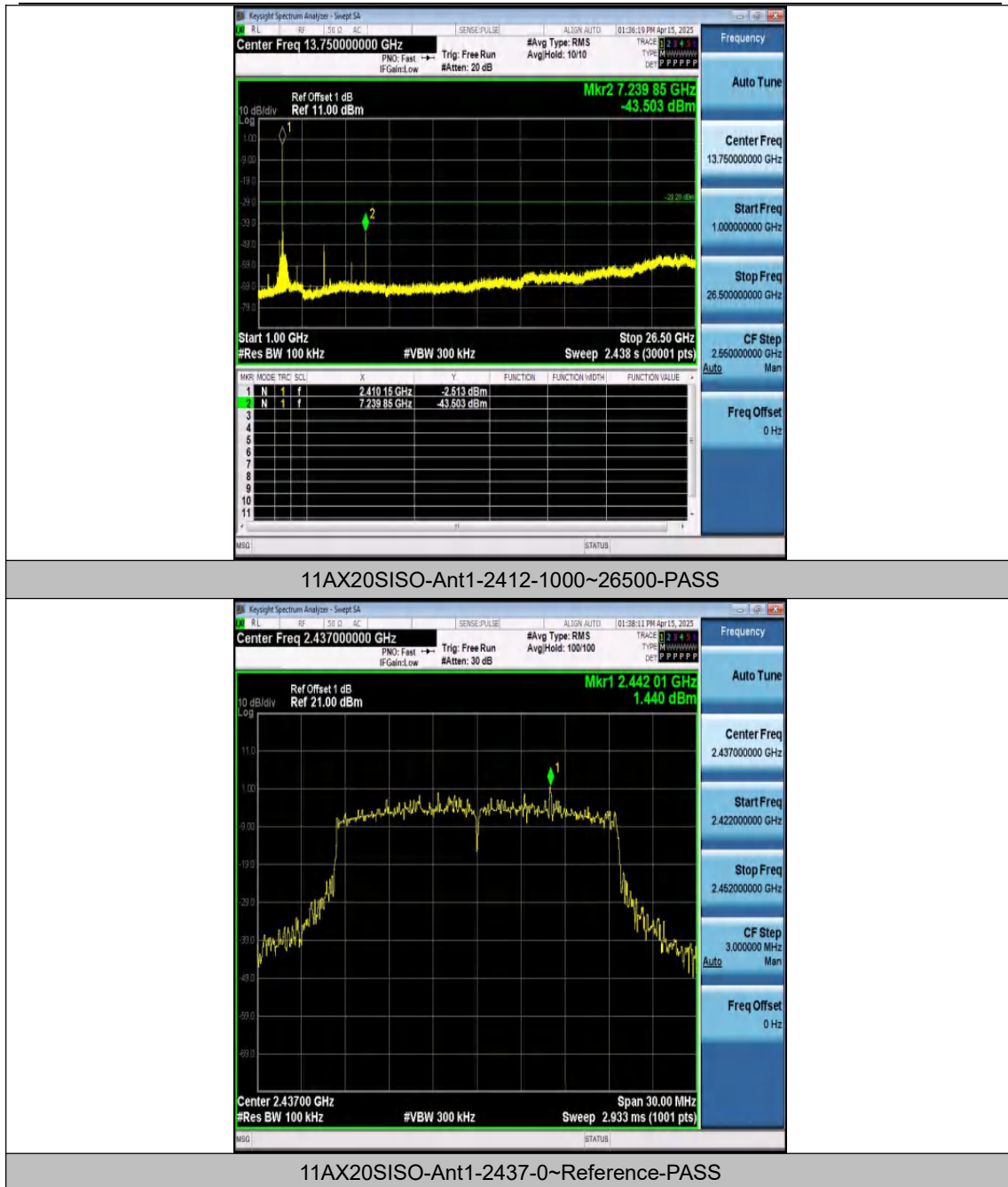


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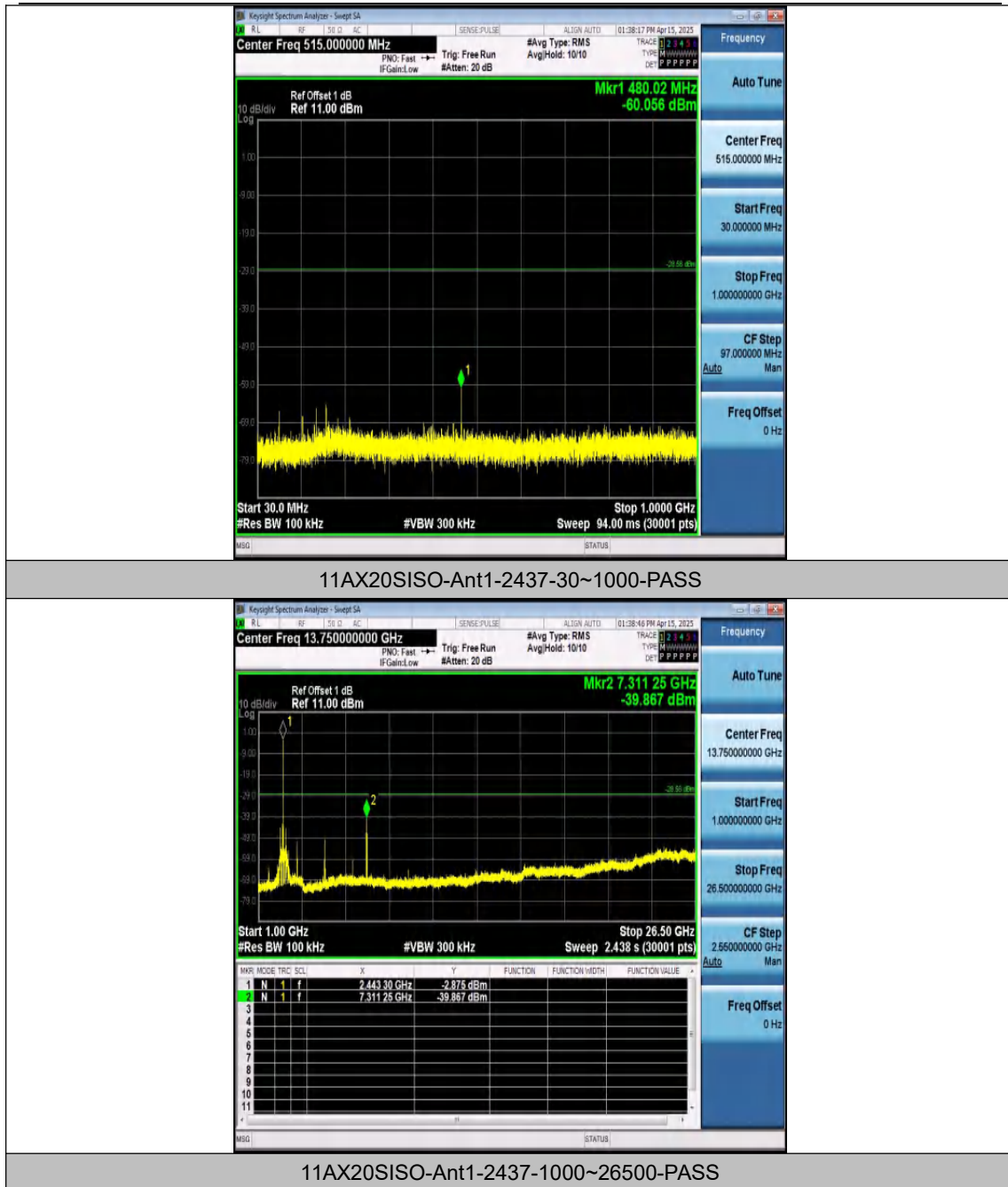


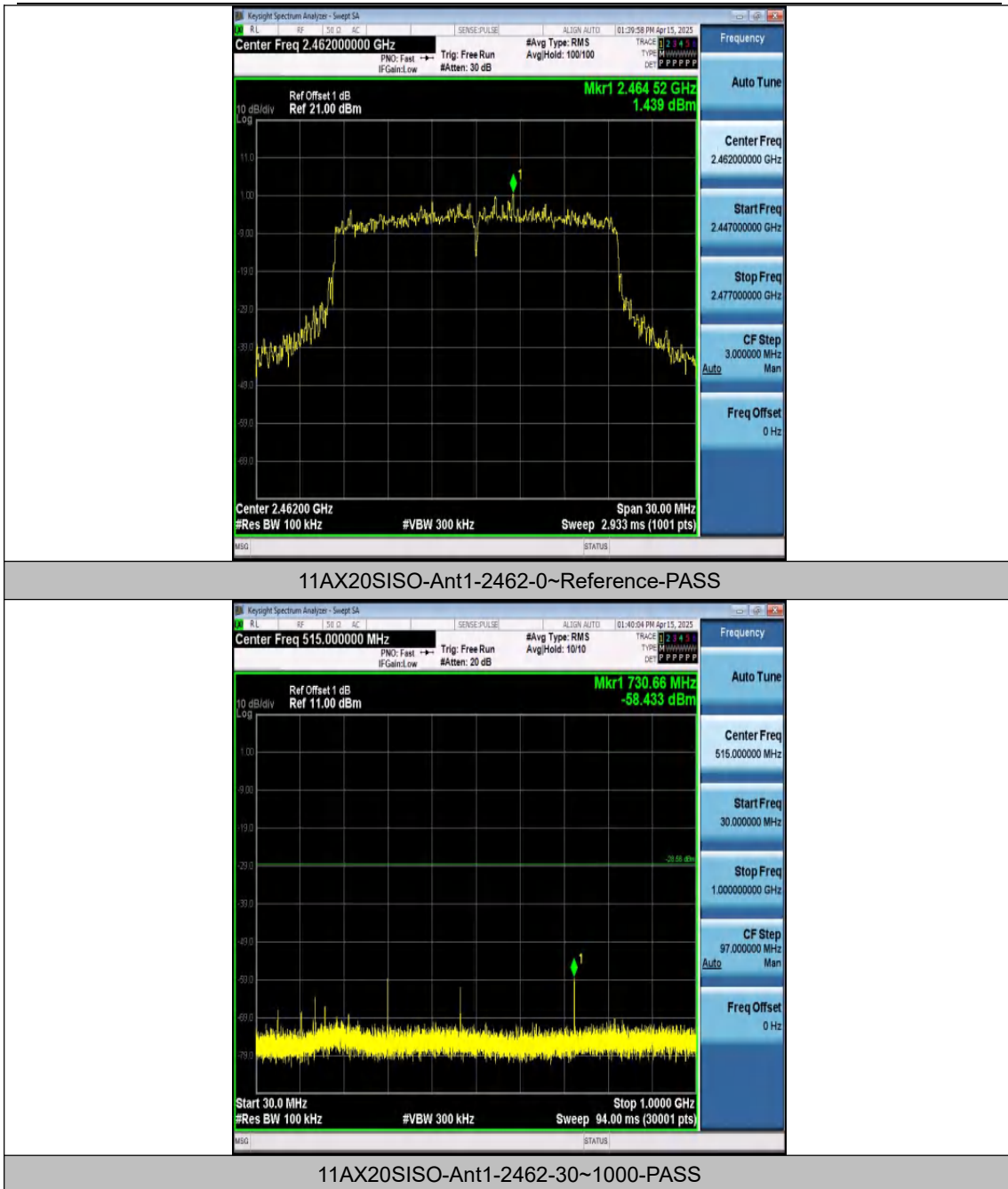


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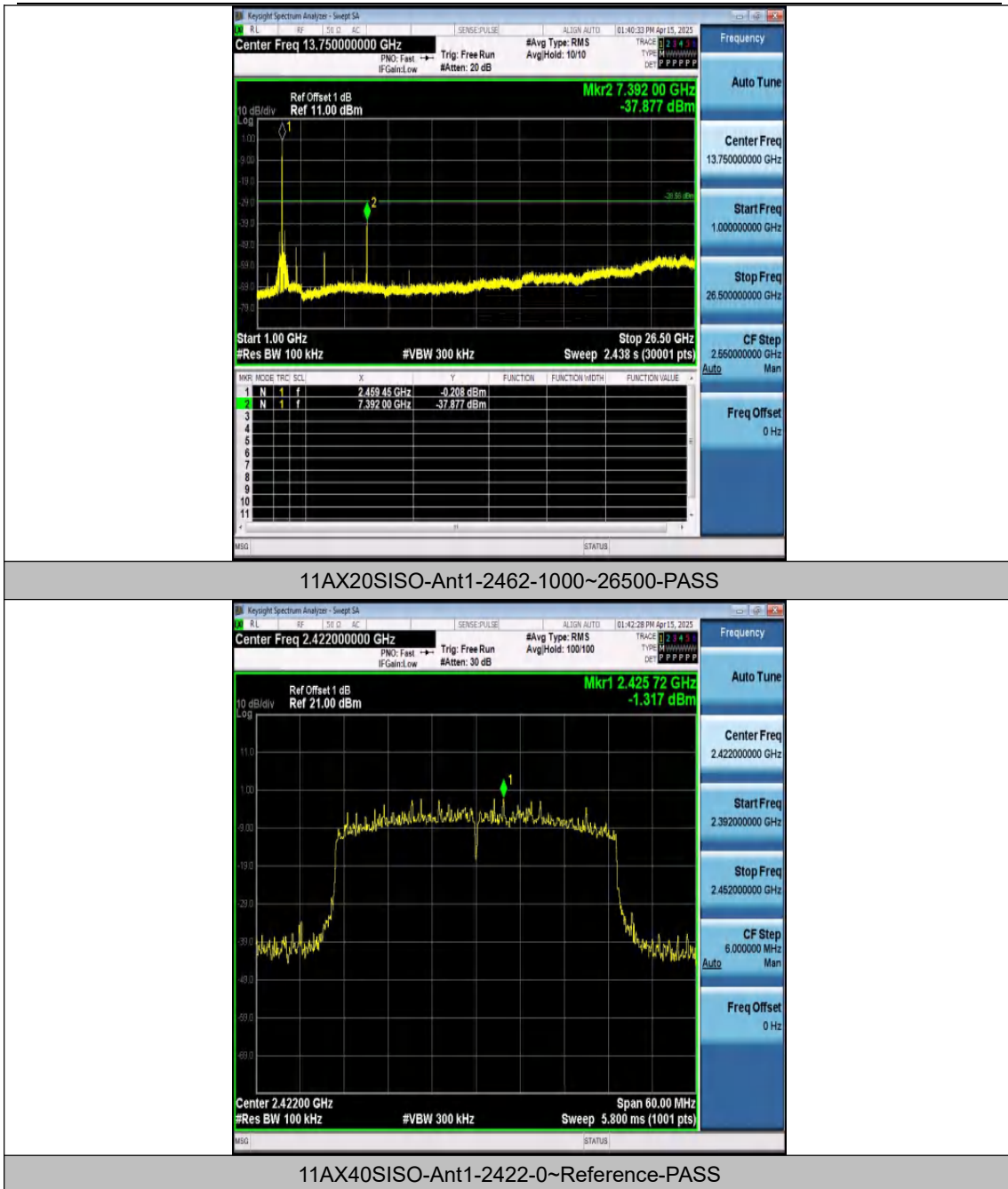




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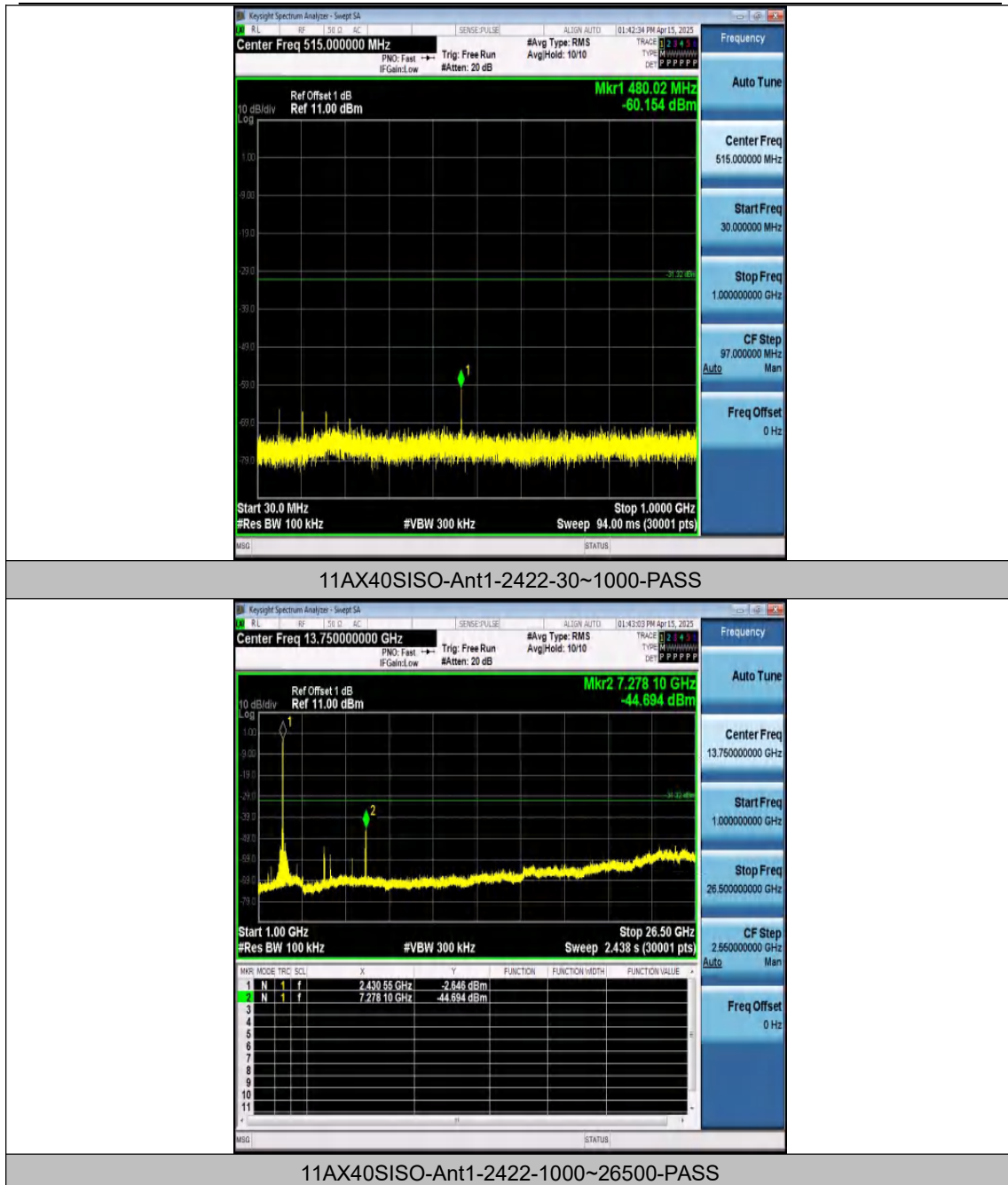
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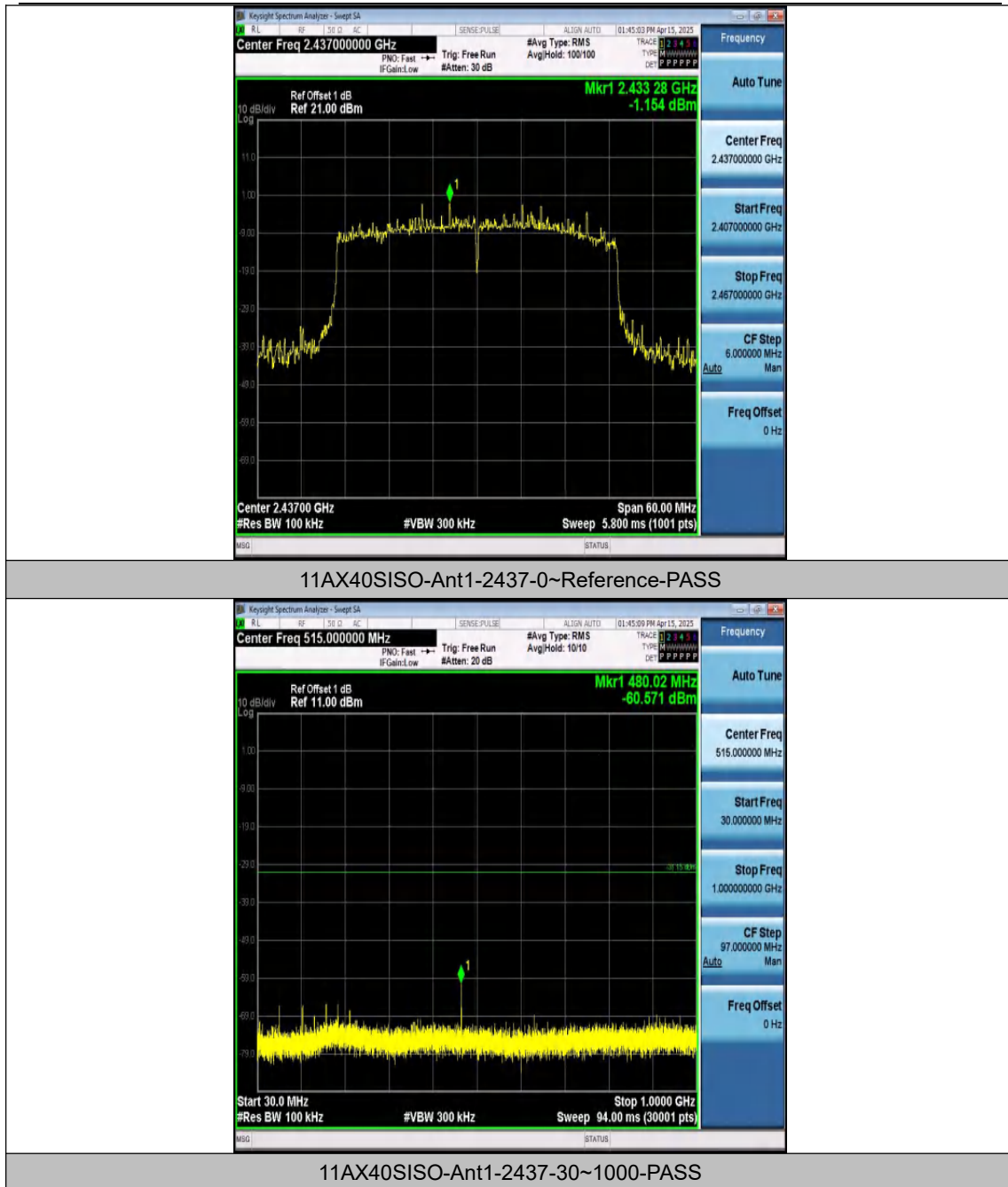


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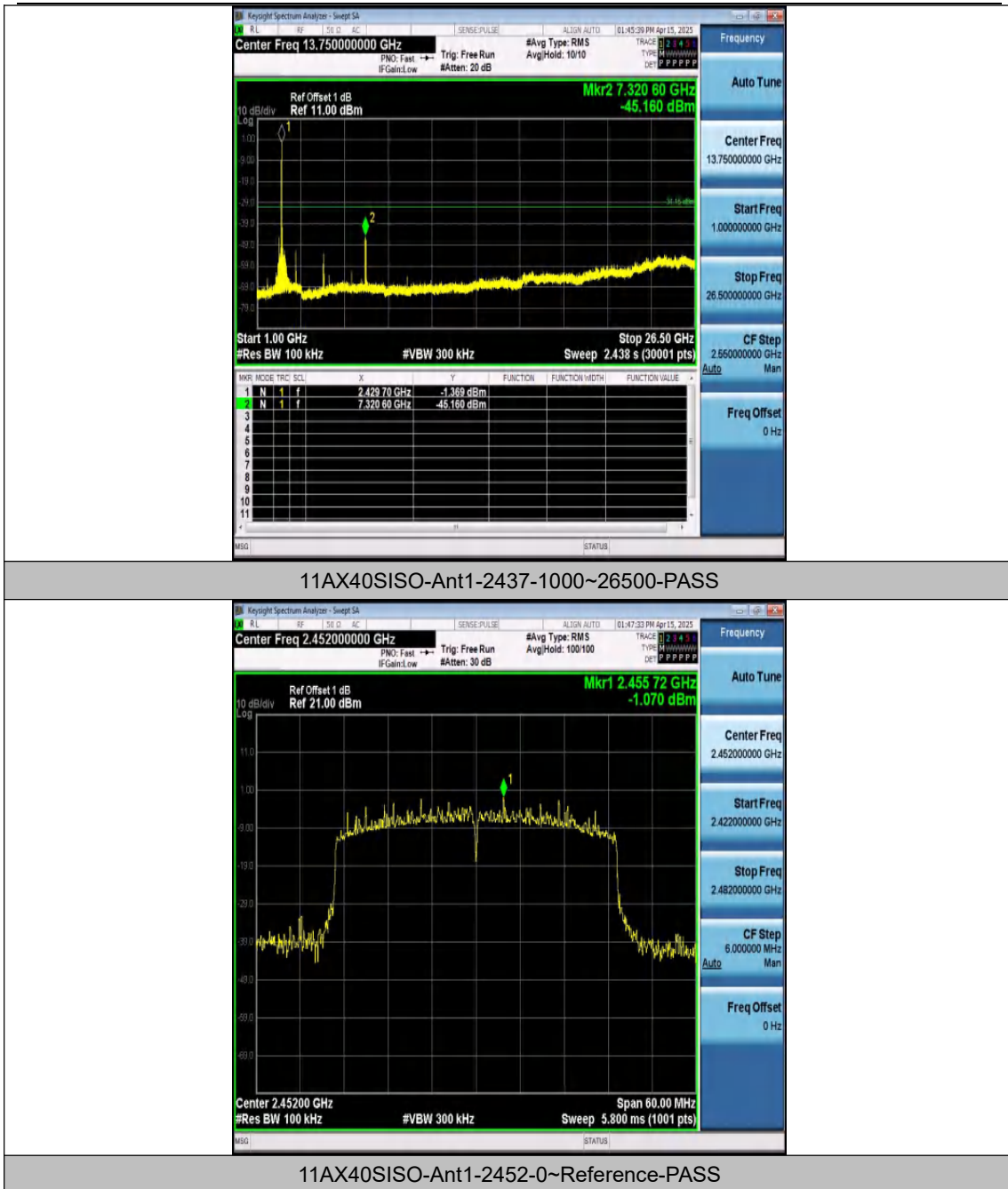


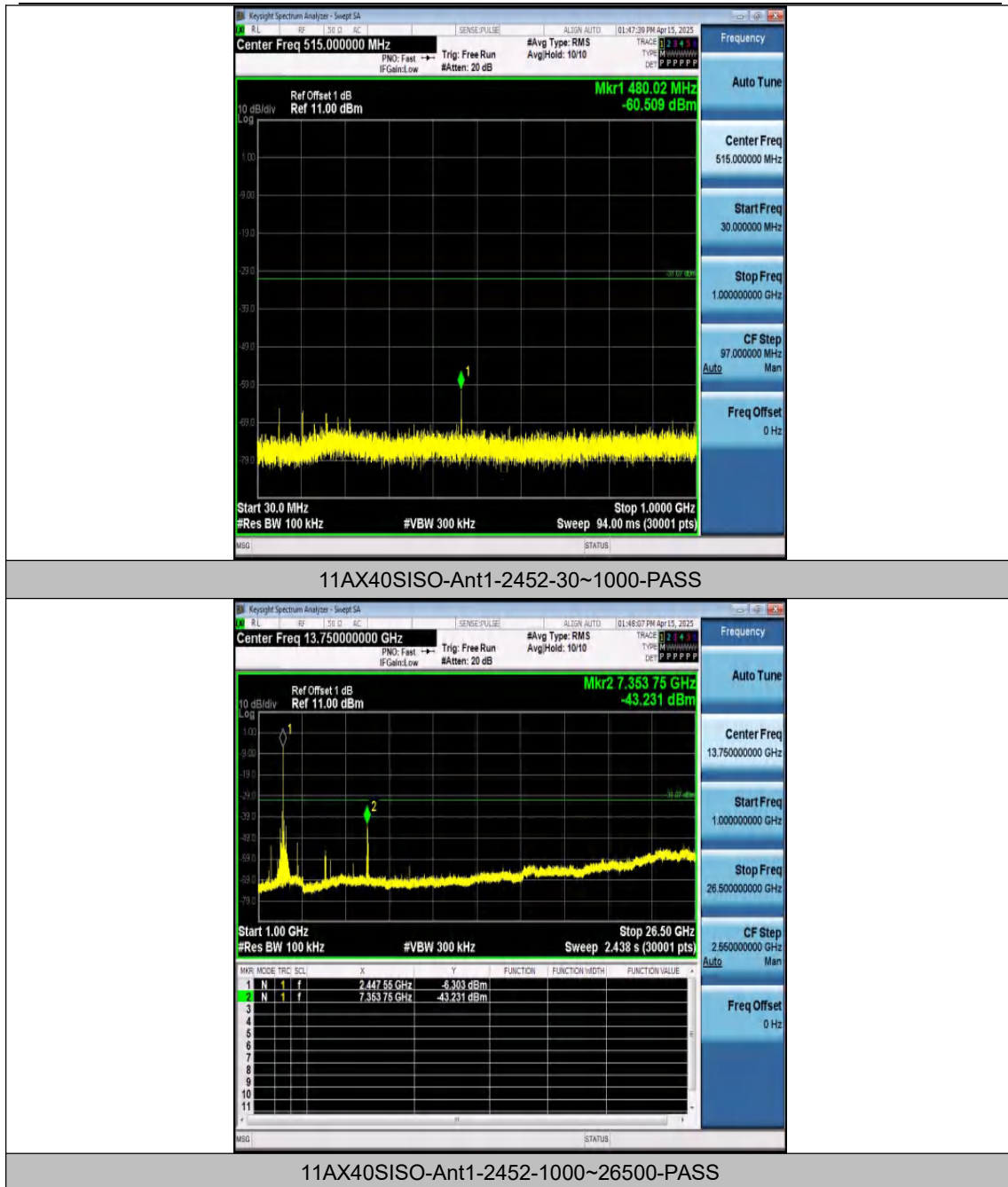


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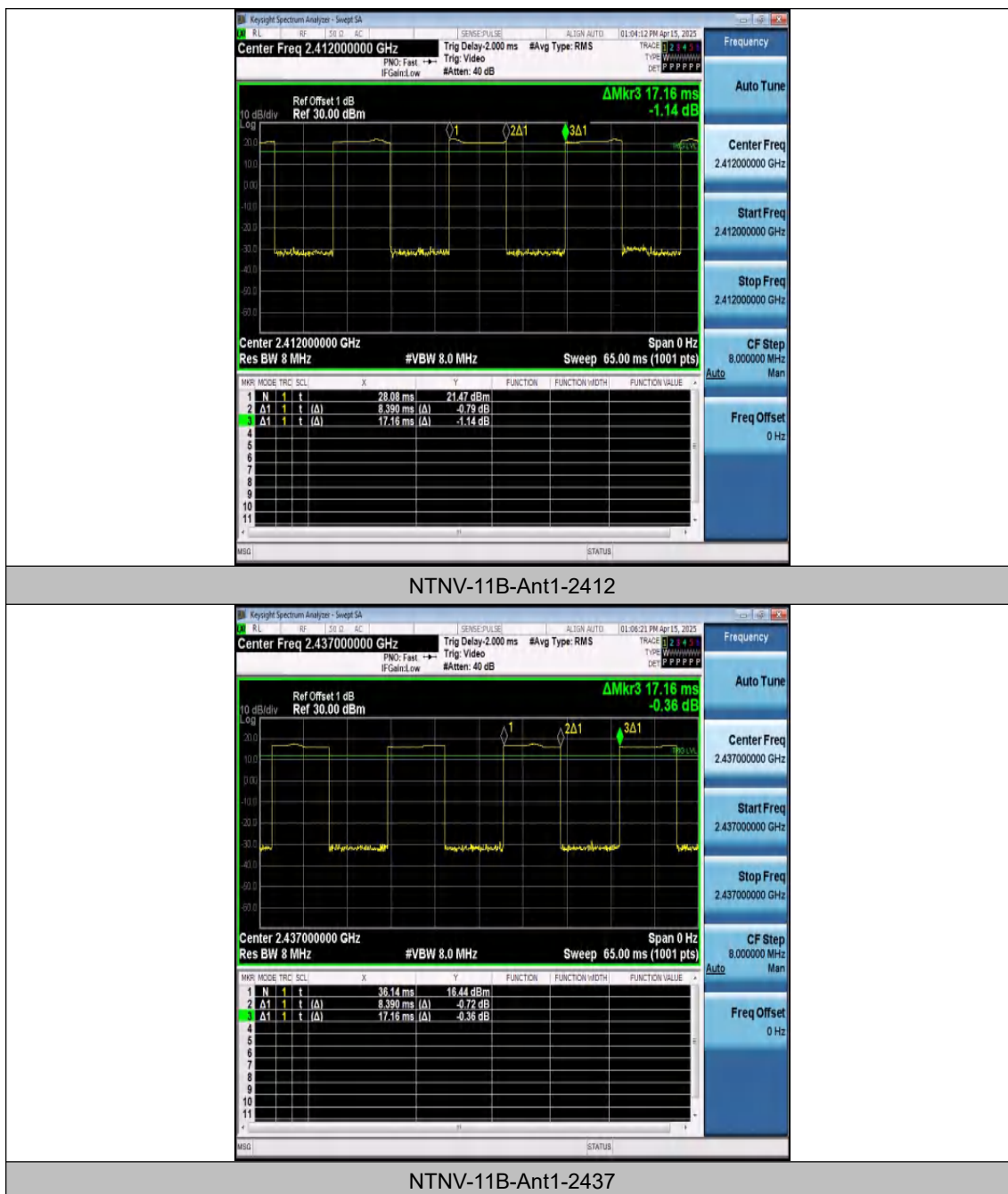
Appendix G: Duty Cycle

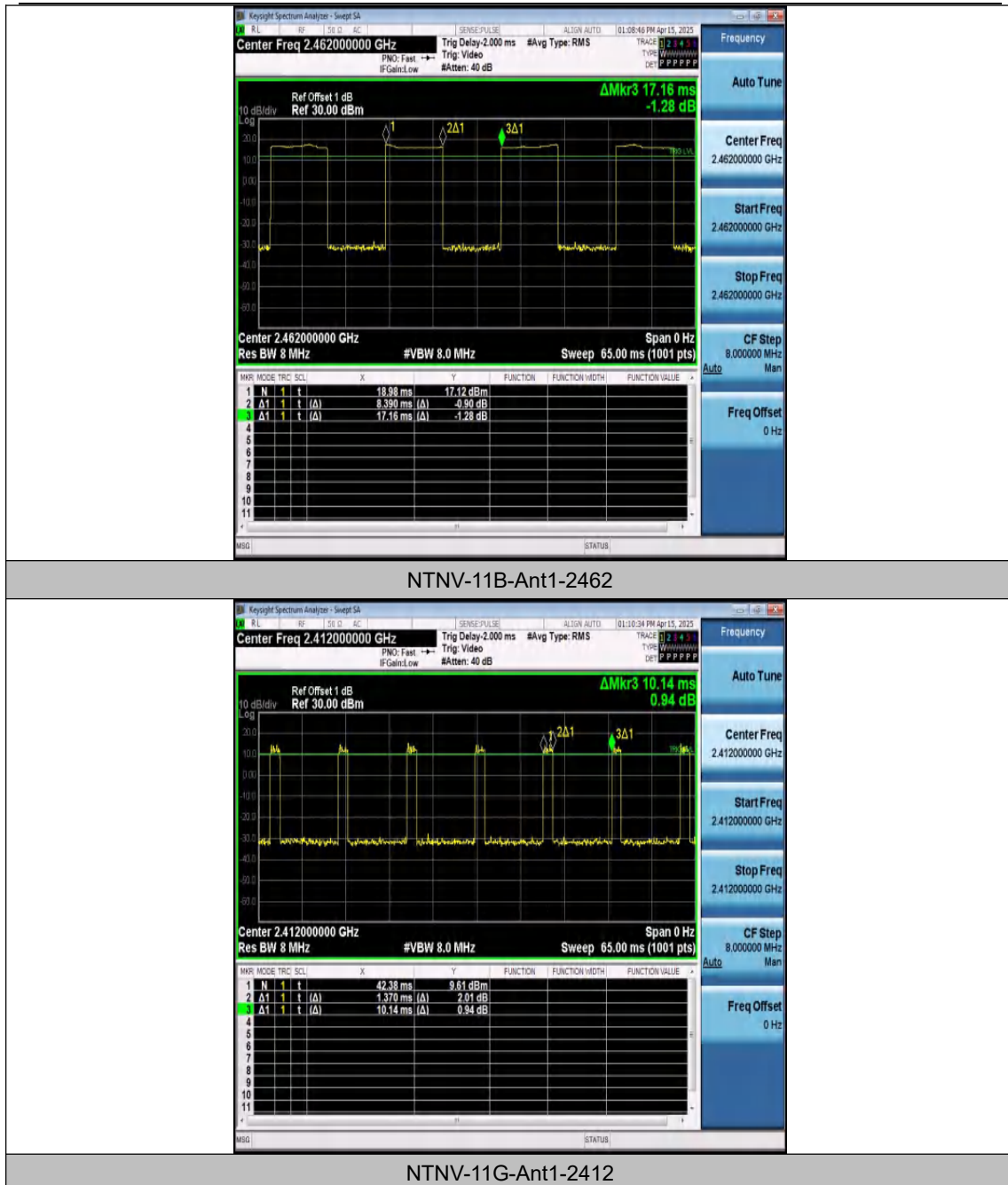
Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	17.16	48.89	3.11
11B	Ant1	2437	8.39	17.16	48.89	3.11
11B	Ant1	2462	8.39	17.16	48.89	3.11
11G	Ant1	2412	1.37	10.14	13.51	8.69
11G	Ant1	2437	1.37	10.14	13.51	8.69
11G	Ant1	2462	1.37	10.14	13.51	8.69
11N20SISO	Ant1	2412	1.30	10.07	12.91	8.89
11N20SISO	Ant1	2437	0.13	1.69	7.69	11.14
11N20SISO	Ant1	2462	0.13	1.69	7.69	11.14
11N40SISO	Ant1	2422	0.65	6.57	9.89	10.05
11N40SISO	Ant1	2437	0.65	6.57	9.89	10.05
11N40SISO	Ant1	2452	0.58	6.50	8.92	10.50
11AX20SISO	Ant1	2412	1.04	9.82	10.59	9.75
11AX20SISO	Ant1	2437	1.04	9.82	10.59	9.75
11AX20SISO	Ant1	2462	1.04	9.82	10.59	9.75
11AX40SISO	Ant1	2422	0.52	9.29	5.60	12.52
11AX40SISO	Ant1	2437	0.52	9.29	5.60	12.52
11AX40SISO	Ant1	2452	0.52	9.29	5.60	12.52



Test Graphs

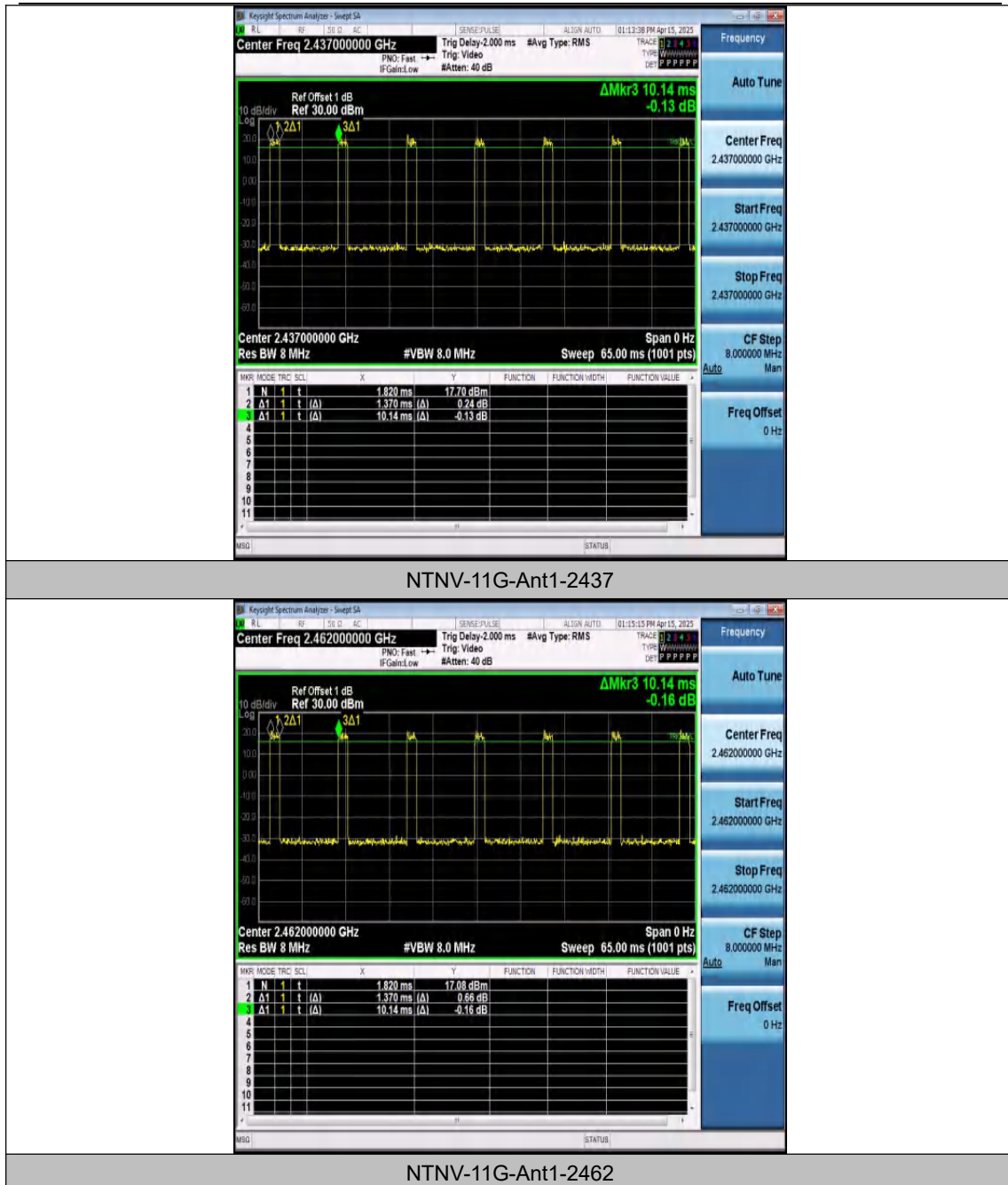




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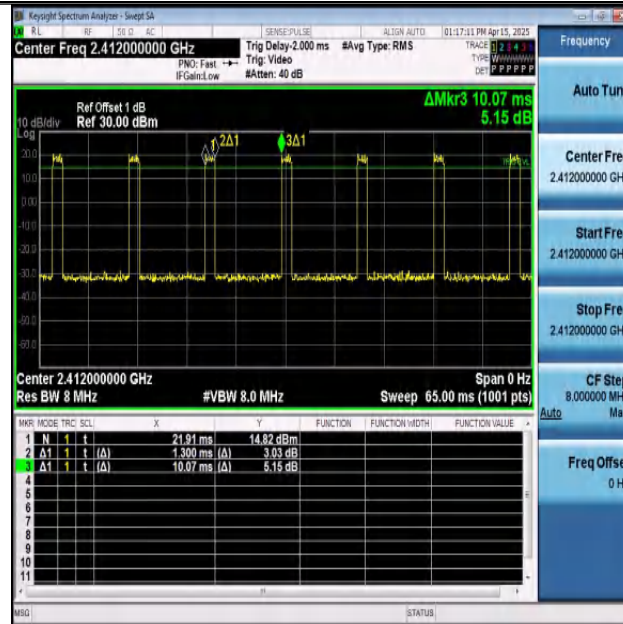
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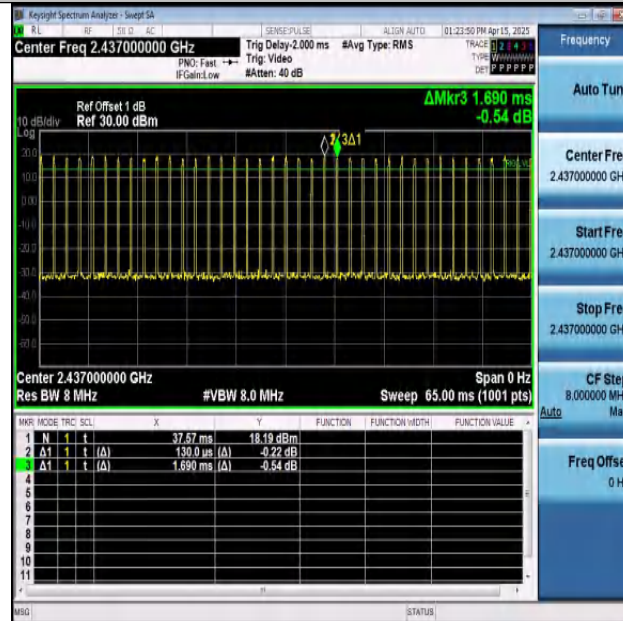
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NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437

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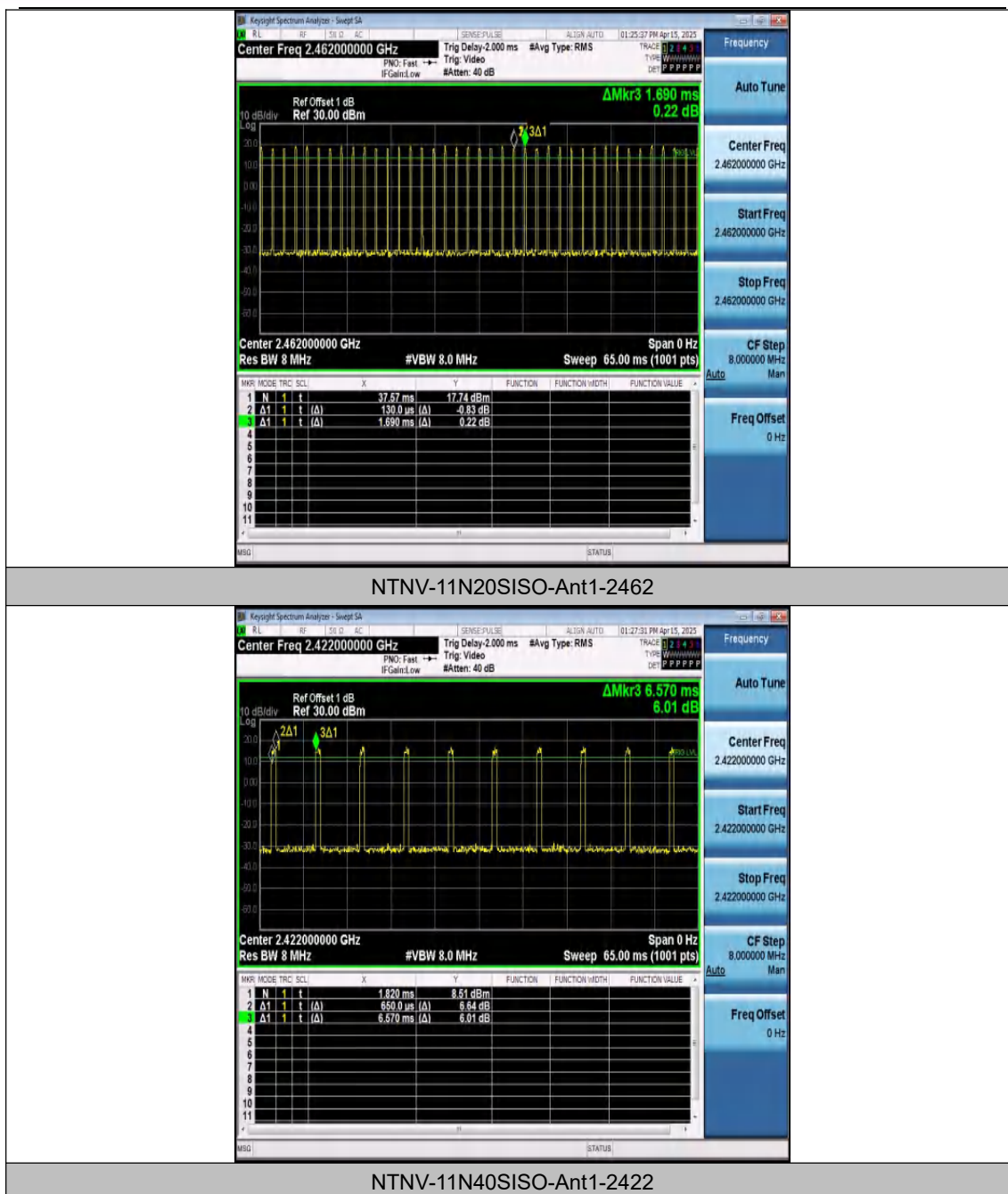
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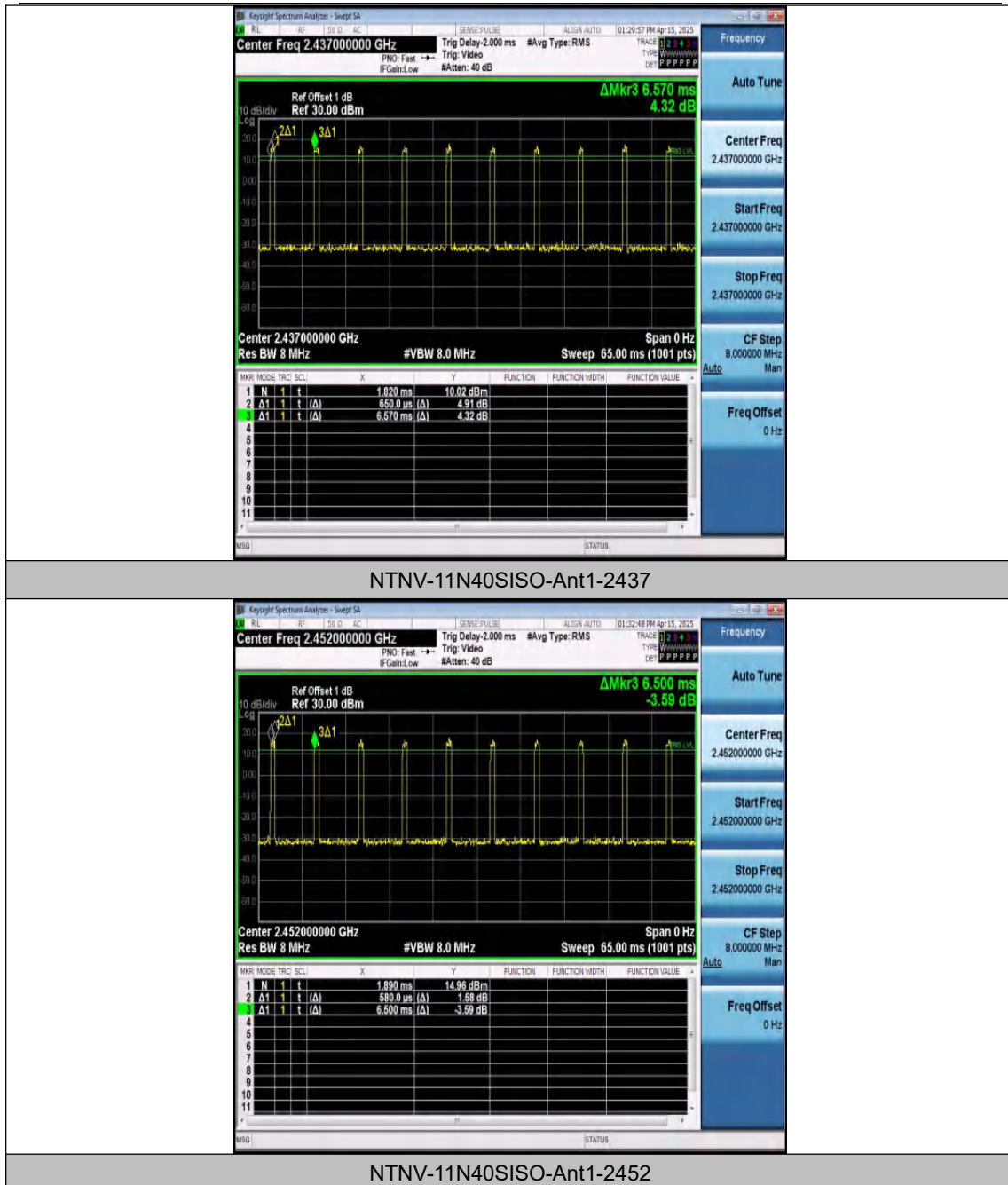
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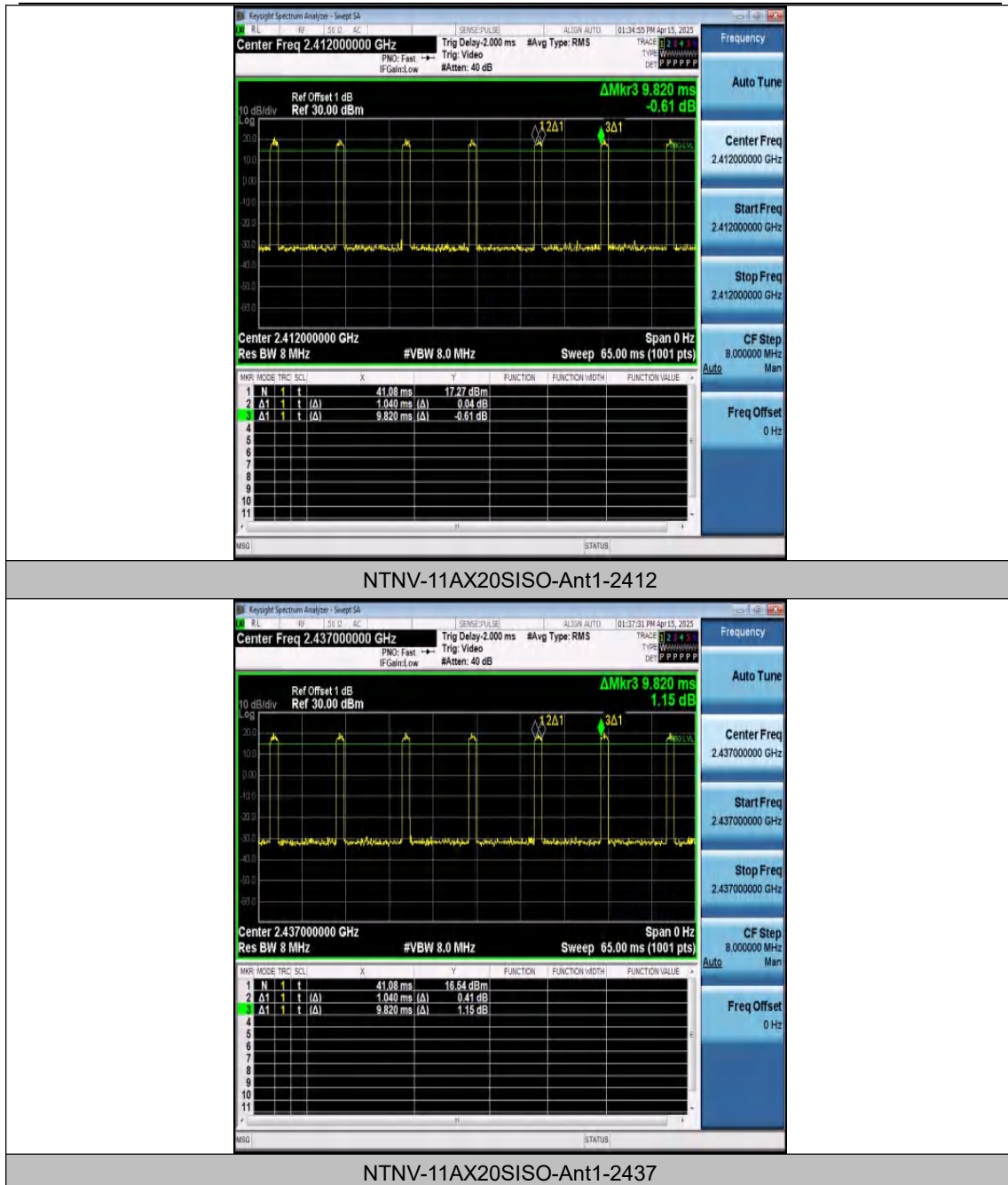
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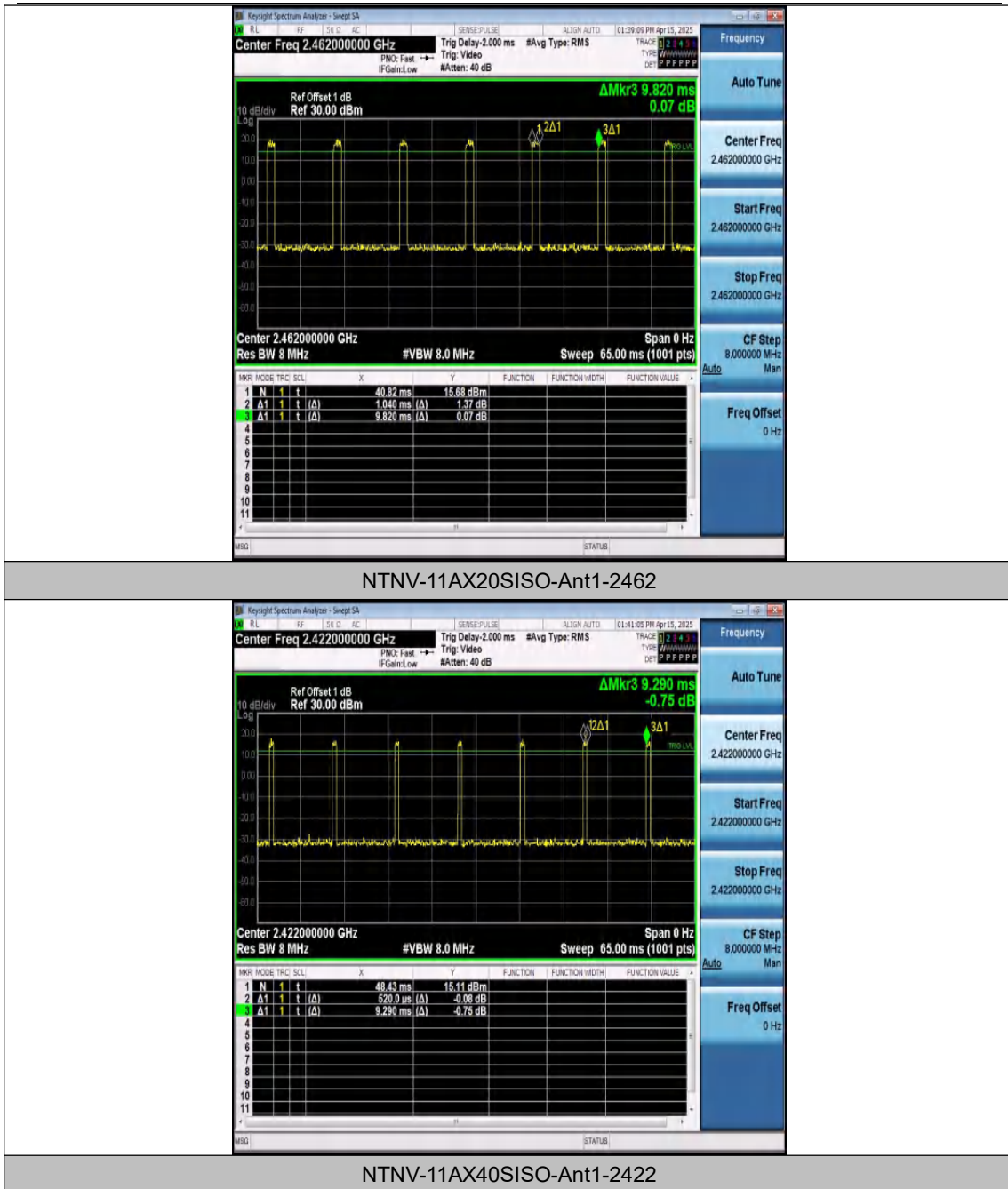
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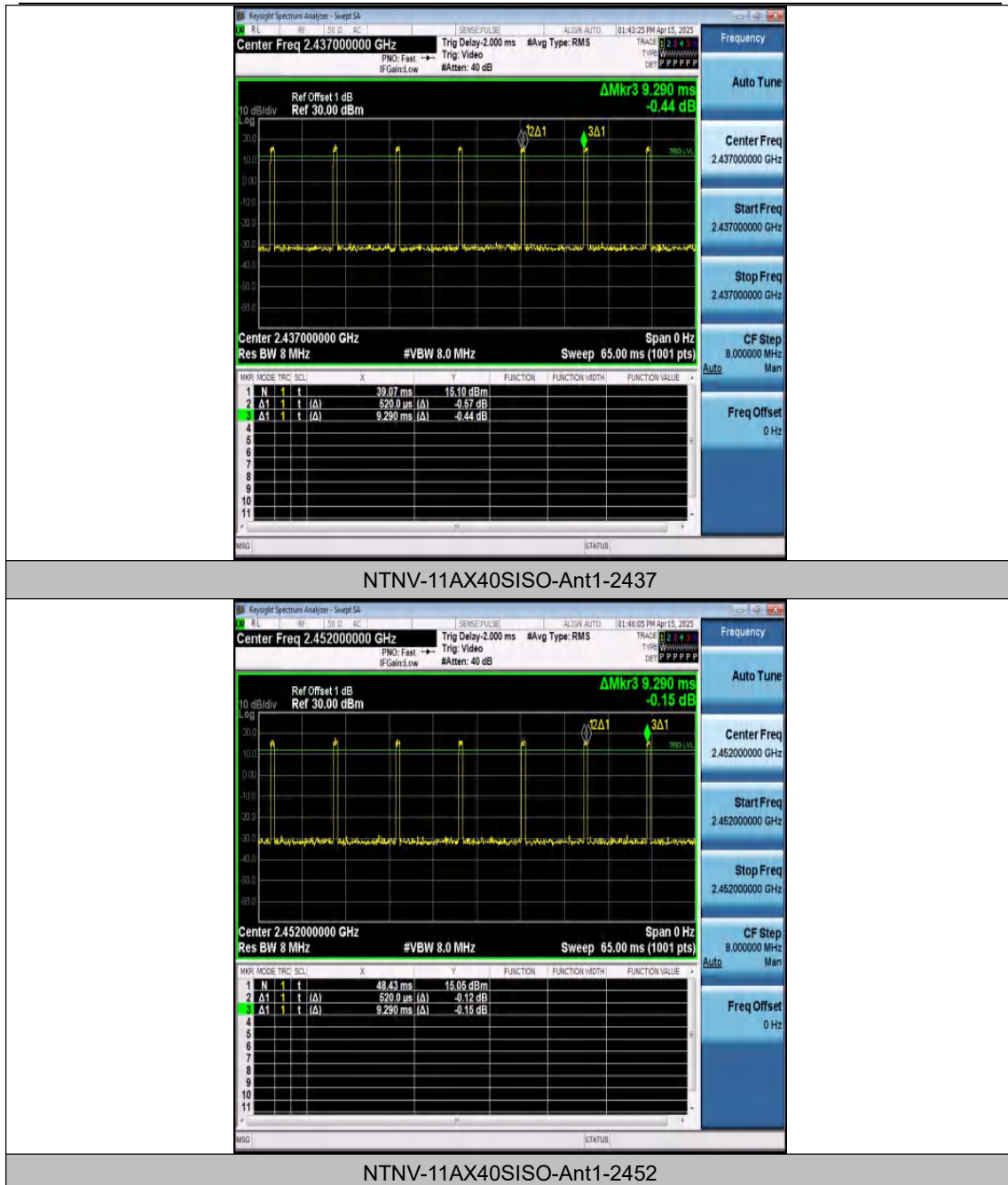
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