

Appendix Test Data

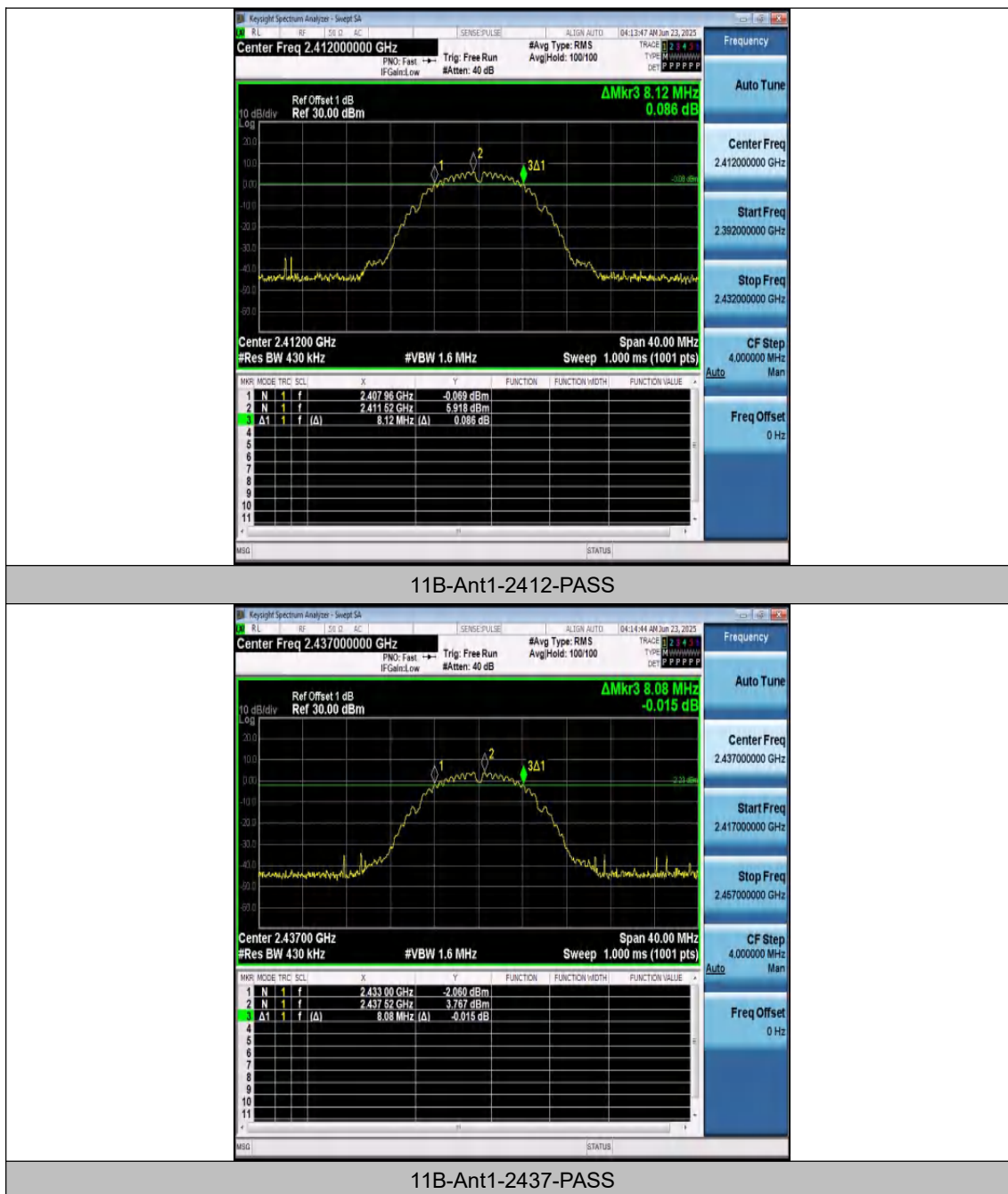
Report No.:	1812C50125512503	Test Sample No.:	1-2-2
Start Test Date:	2025-05-12	Finish Test Date:	2025-06-23
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25°C	Relative Humidity:	56%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

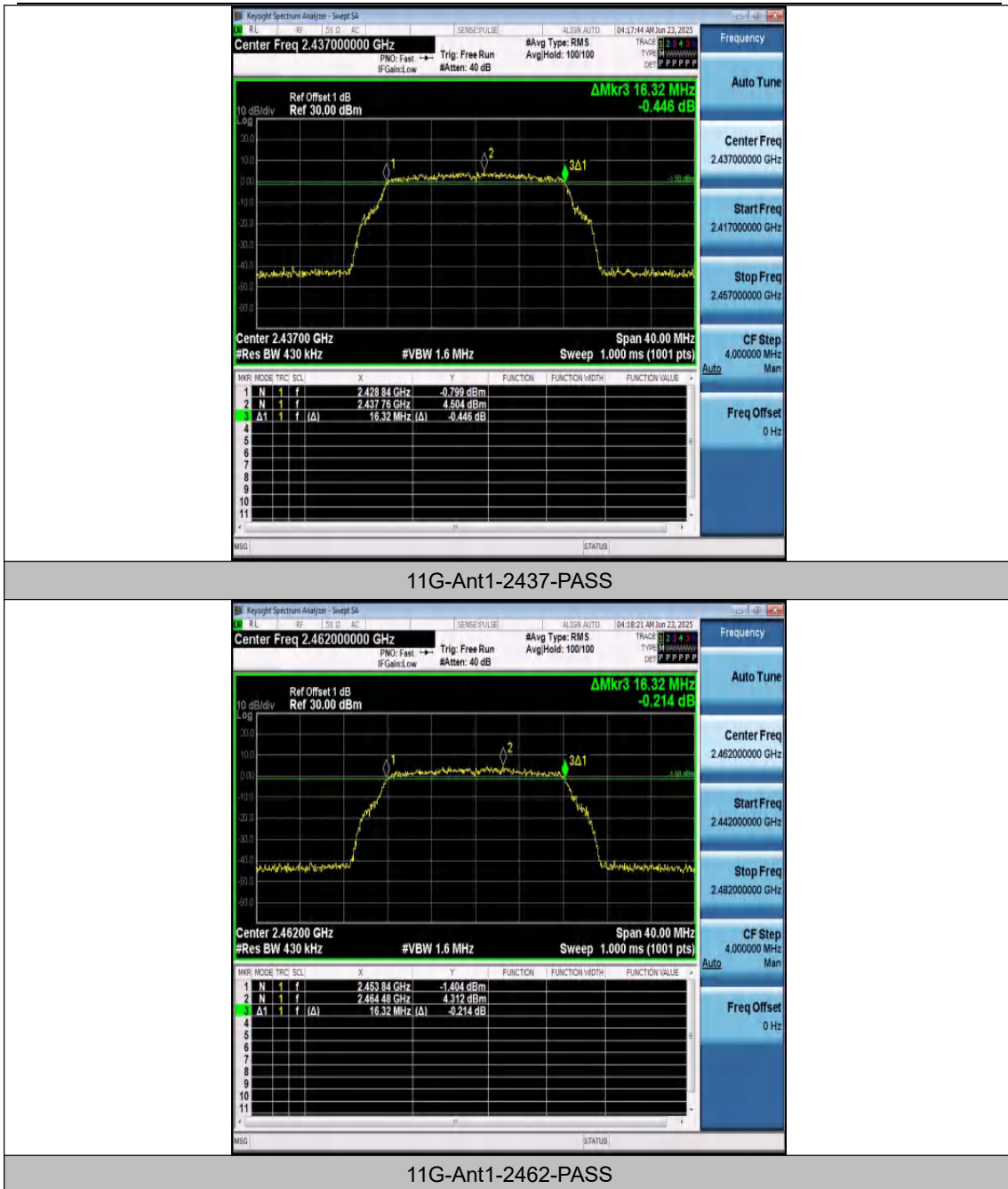
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.120	2407.960	2416.080	0.5	PASS
11B	Ant1	2437	8.080	2433.000	2441.080	0.5	PASS
11B	Ant1	2462	8.080	2458.000	2466.080	0.5	PASS
11G	Ant1	2412	16.240	2403.960	2420.200	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.480	2403.240	2420.720	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.240	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.520	2453.200	2470.720	0.5	PASS
11N40SISO	Ant1	2422	35.920	2404.160	2440.080	0.5	PASS
11N40SISO	Ant1	2437	36.240	2419.080	2455.320	0.5	PASS
11N40SISO	Ant1	2452	36.000	2434.160	2470.160	0.5	PASS

Test Graphs



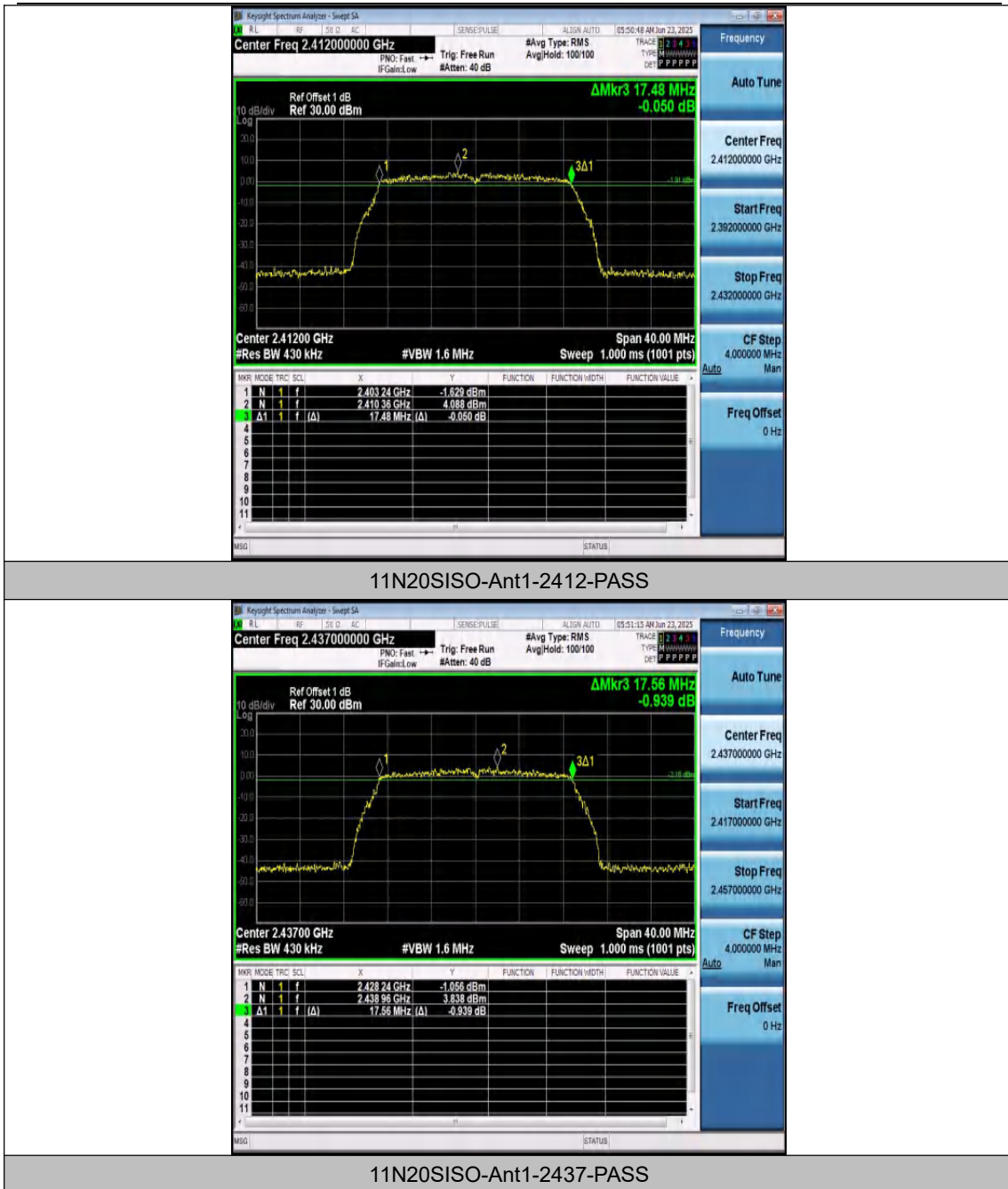


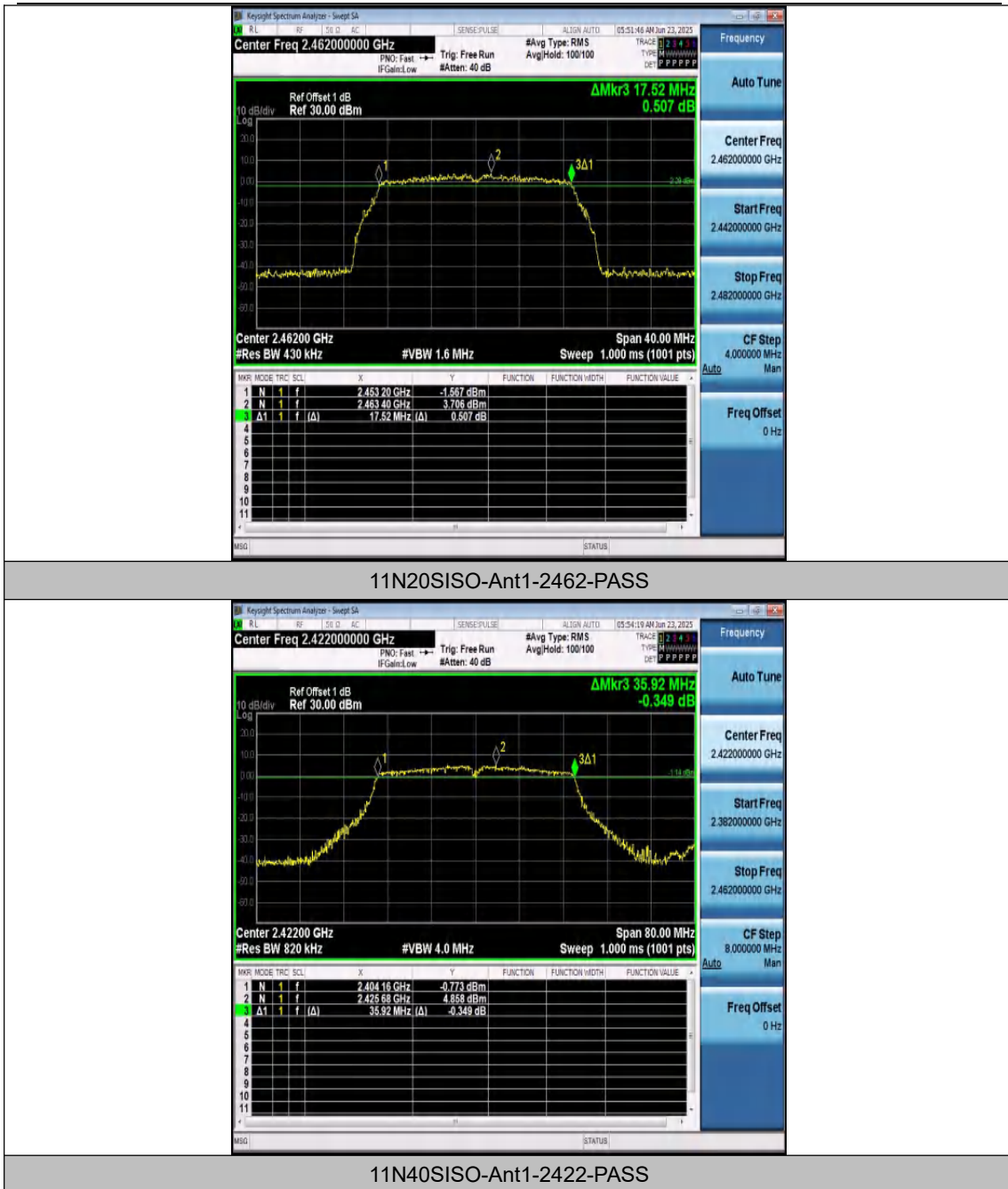


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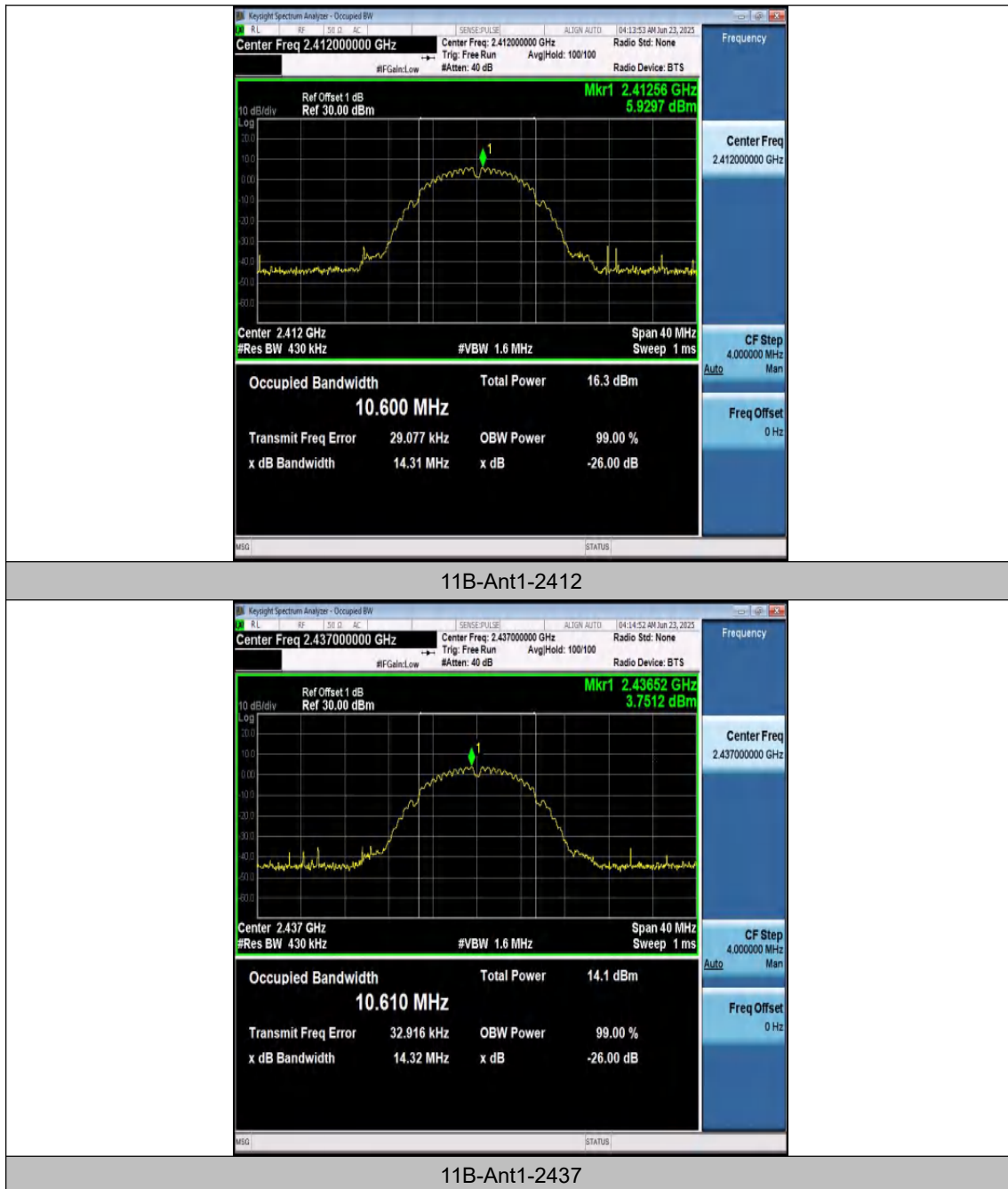


Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.600	2406.7291	2417.3291	---	---
11B	Ant1	2437	10.610	2431.7279	2442.3379	---	---
11B	Ant1	2462	10.630	2456.7311	2467.3611	---	---
11G	Ant1	2412	16.946	2403.5679	2420.5139	---	---
11G	Ant1	2437	16.901	2428.6001	2445.5011	---	---
11G	Ant1	2462	16.983	2453.5819	2470.5649	---	---
11N20SISO	Ant1	2412	17.994	2403.0396	2421.0336	---	---
11N20SISO	Ant1	2437	17.991	2428.0389	2446.0299	---	---
11N20SISO	Ant1	2462	18.069	2453.0285	2471.0975	---	---
11N40SISO	Ant1	2422	36.384	2403.9033	2440.2873	---	---
11N40SISO	Ant1	2437	36.465	2418.8436	2455.3086	---	---
11N40SISO	Ant1	2452	36.408	2433.8475	2470.2555	---	---

Test Graphs

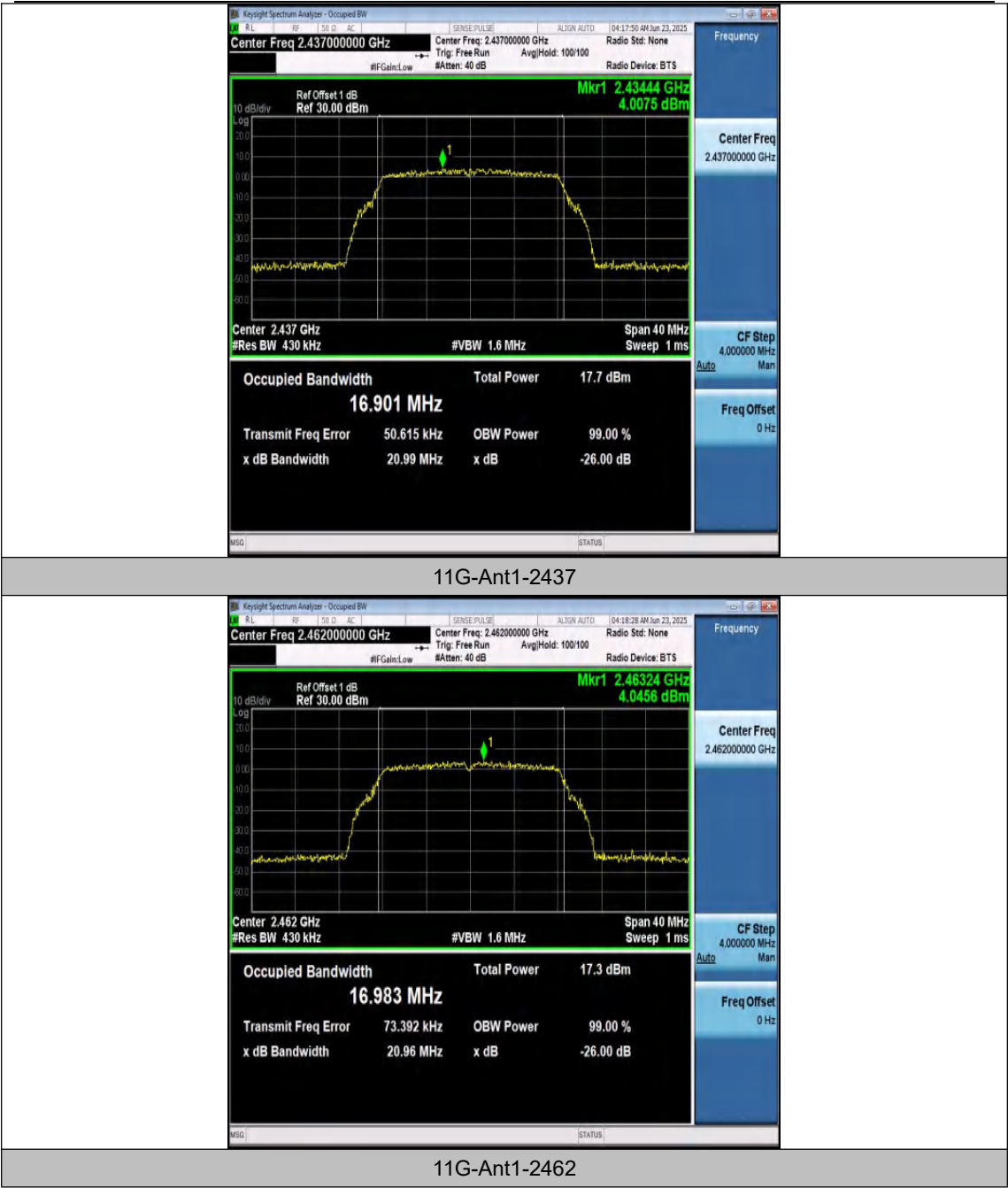


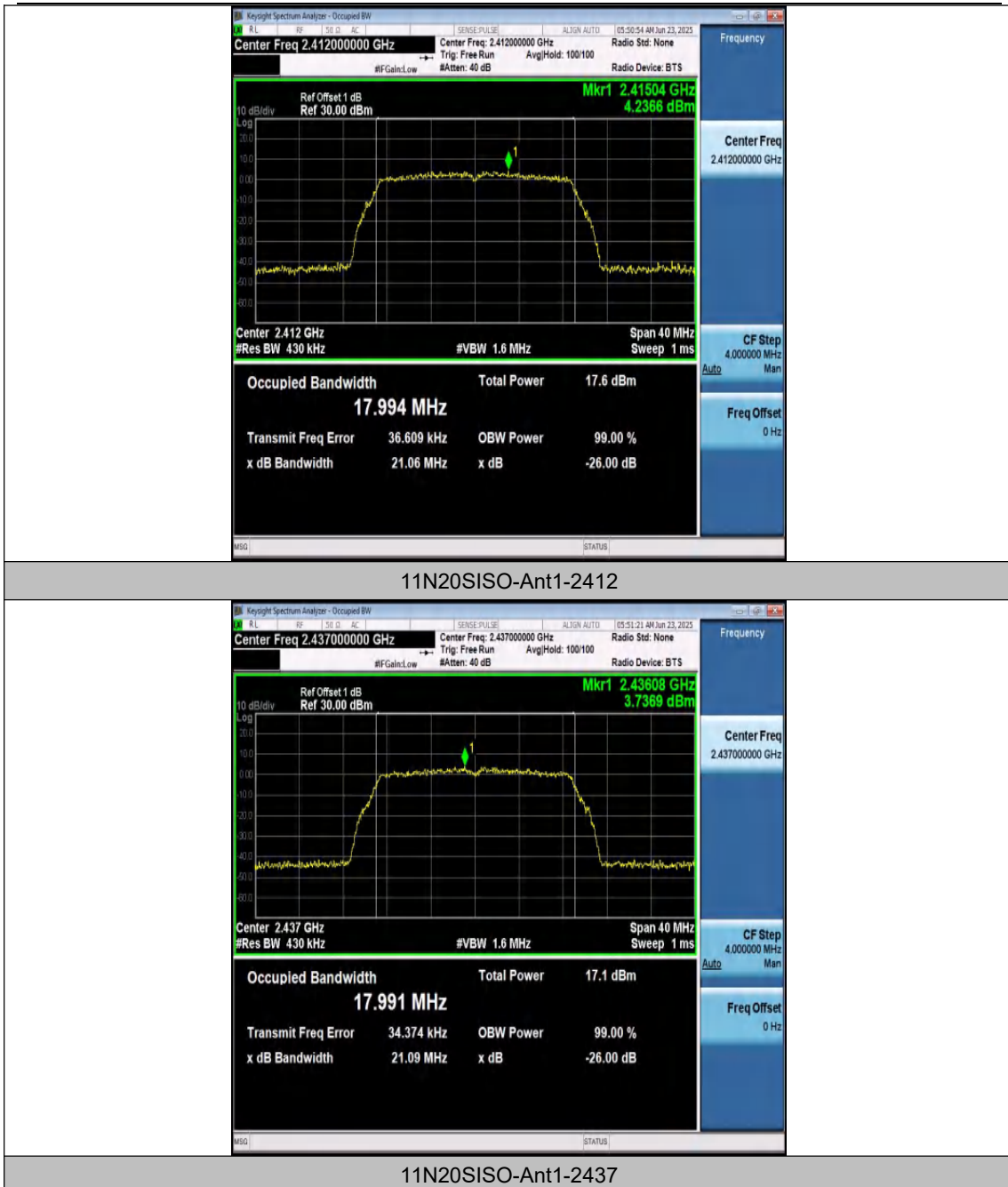
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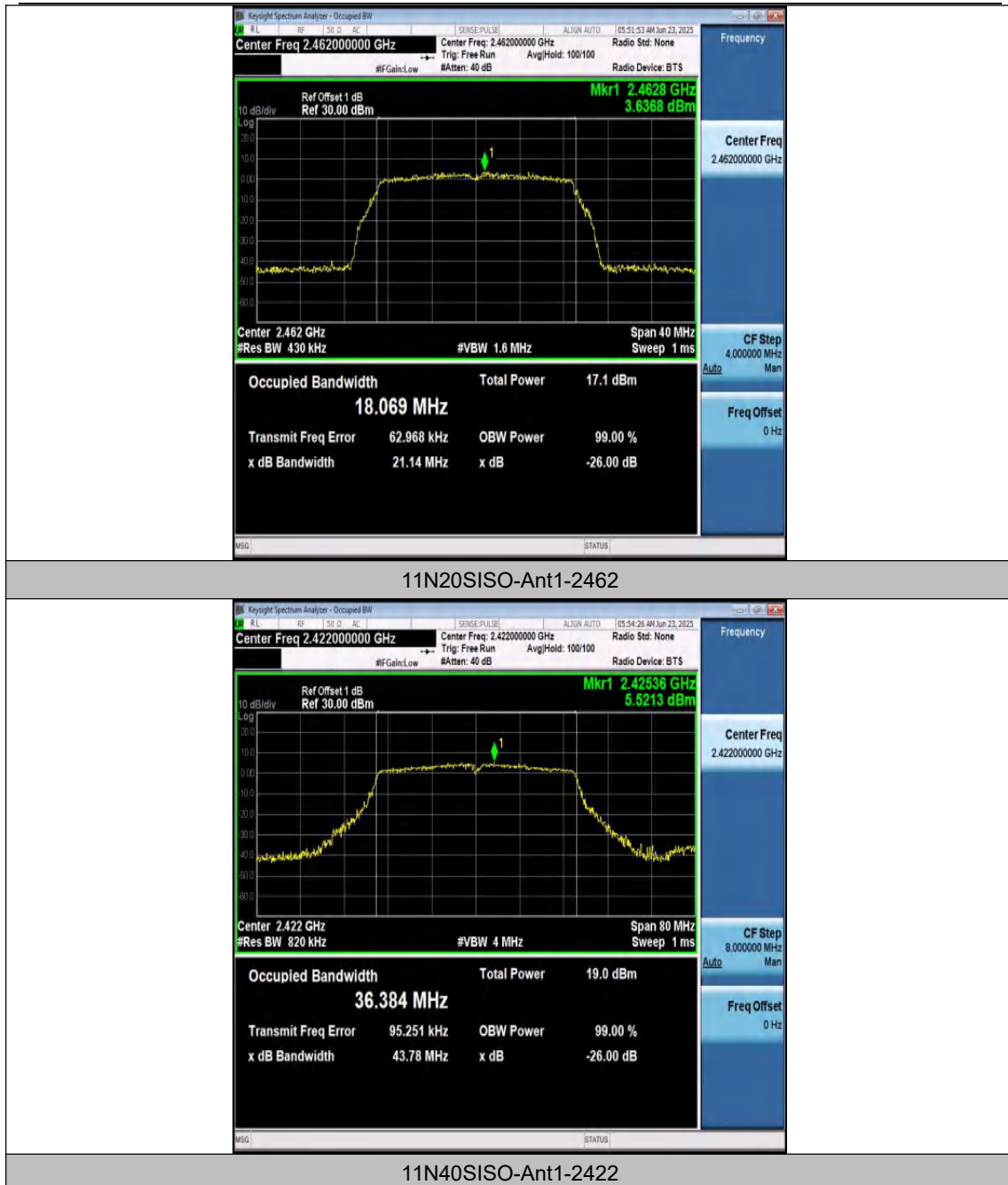
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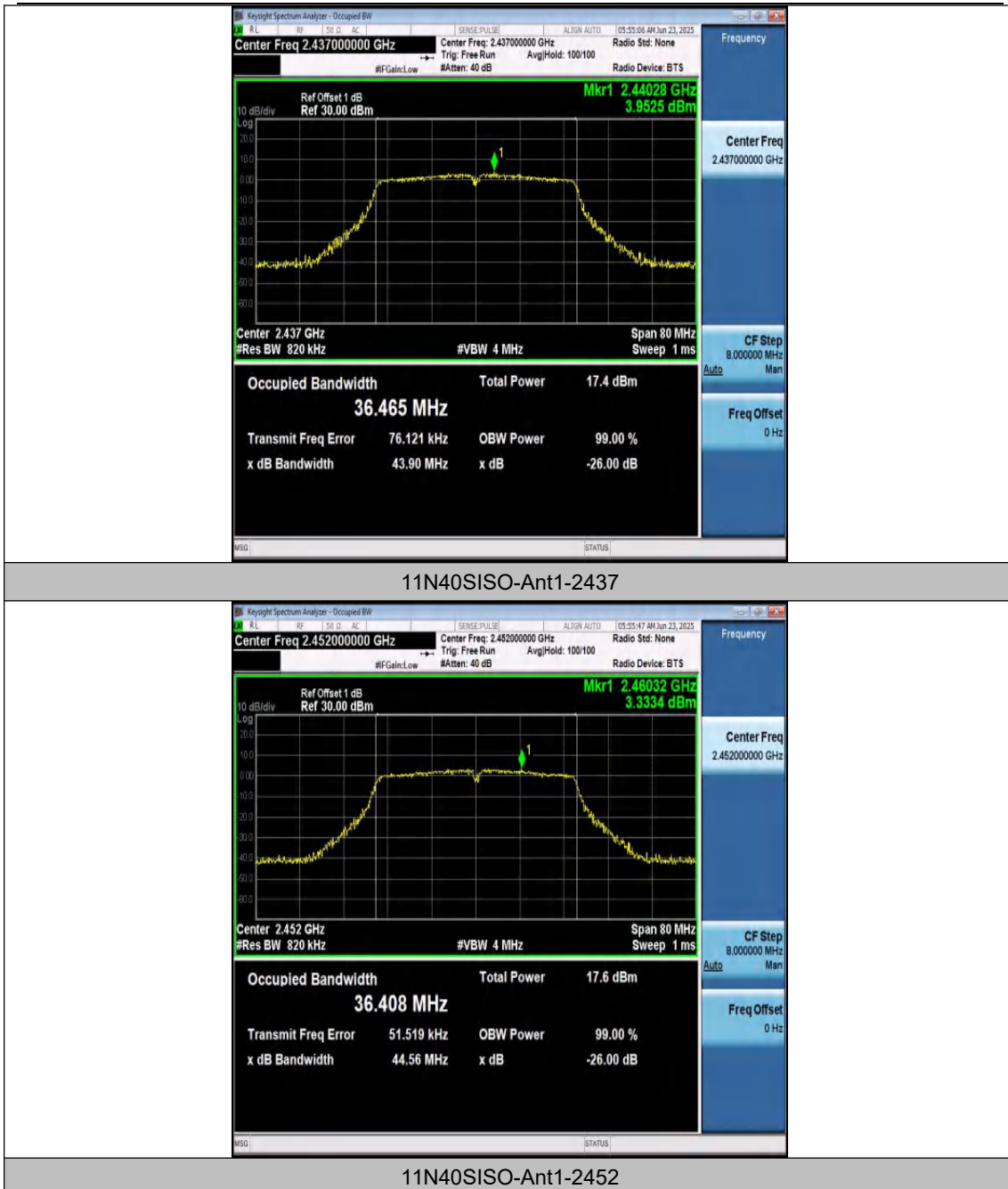
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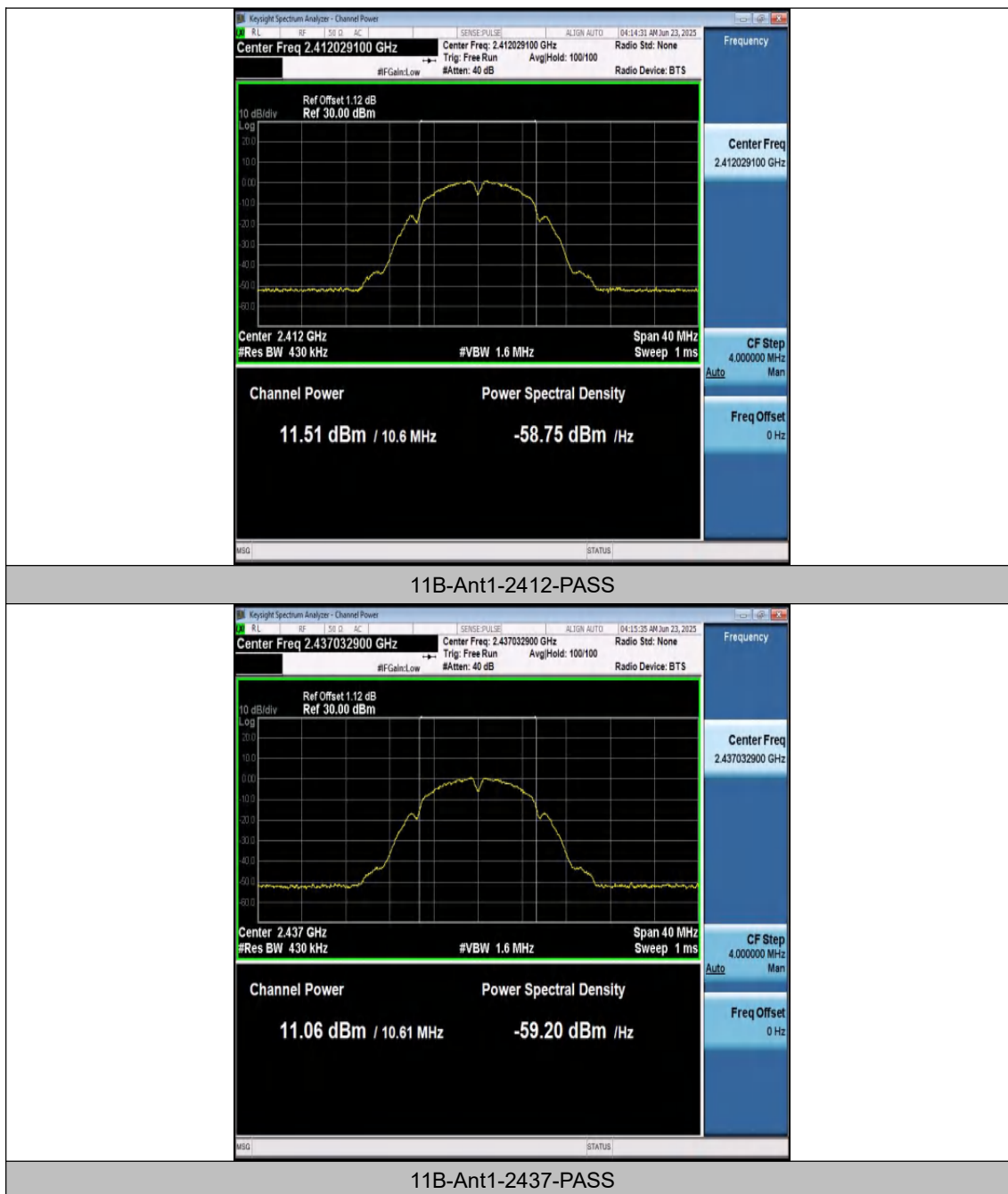
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	11.39	97.25	0.12	11.51	≤30.0 0	PASS
11B	Ant1	2437	10.94	97.25	0.12	11.06	≤30.0 0	PASS
11B	Ant1	2462	11.64	97.59	0.11	11.75	≤30.0 0	PASS
11G	Ant1	2412	11.45	96.88	0.14	11.59	≤30.0 0	PASS
11G	Ant1	2437	11.37	96.88	0.14	11.51	≤30.0 0	PASS
11G	Ant1	2462	11.10	96.88	0.14	11.24	≤30.0 0	PASS
11N20SI SO	Ant1	2412	11.22	96.63	0.15	11.37	≤30.0 0	PASS
11N20SI SO	Ant1	2437	10.88	96.63	0.15	11.03	≤30.0 0	PASS
11N20SI SO	Ant1	2462	11.37	96.63	0.15	11.52	≤30.0 0	PASS
11N40SI SO	Ant1	2422	10.78	93.33	0.30	11.08	≤30.0 0	PASS
11N40SI SO	Ant1	2437	10.34	93.33	0.30	10.64	≤30.0 0	PASS
11N40SI SO	Ant1	2452	9.43	62.69	2.03	11.46	≤30.0 0	PASS

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

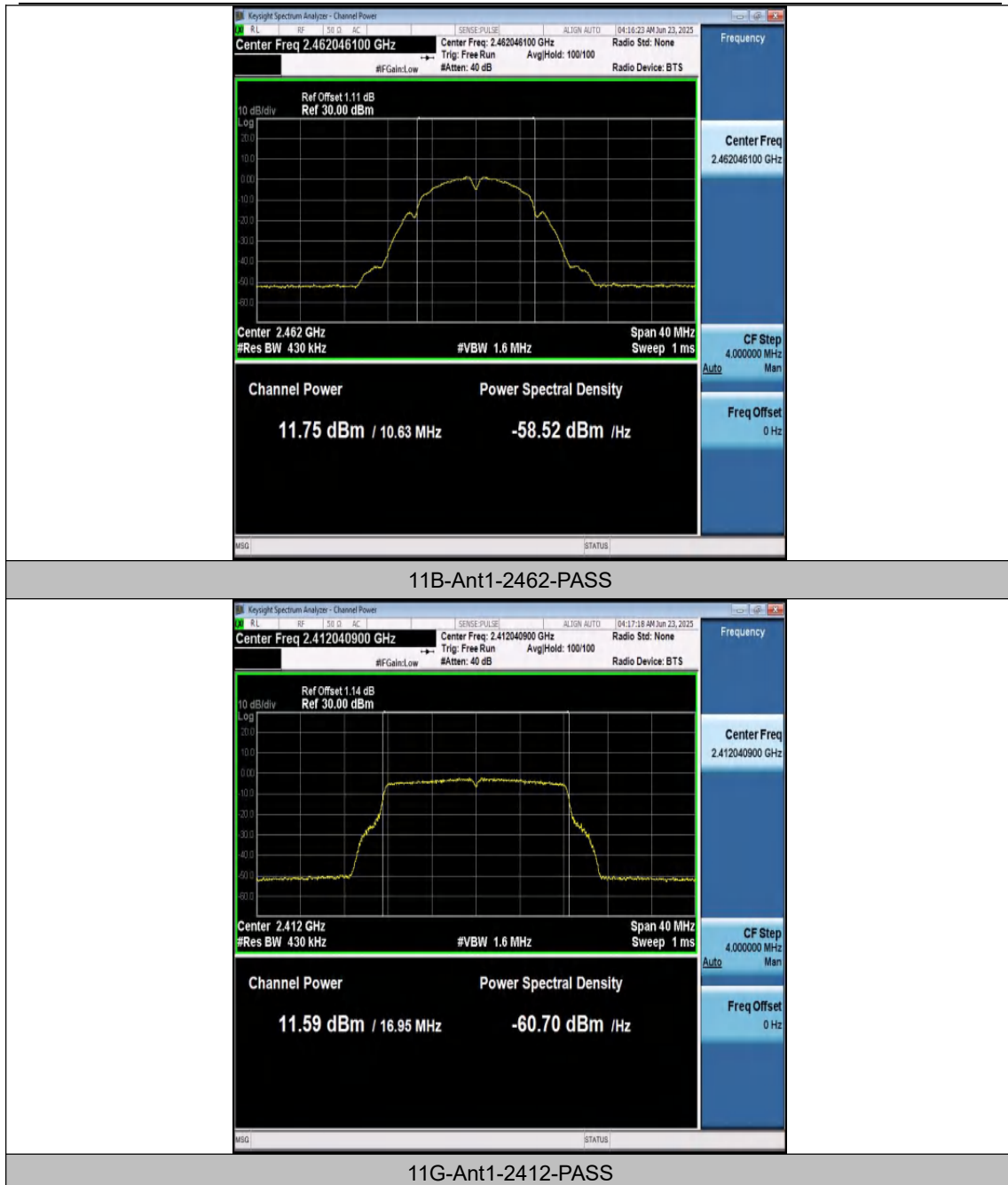
Test Graphs Average

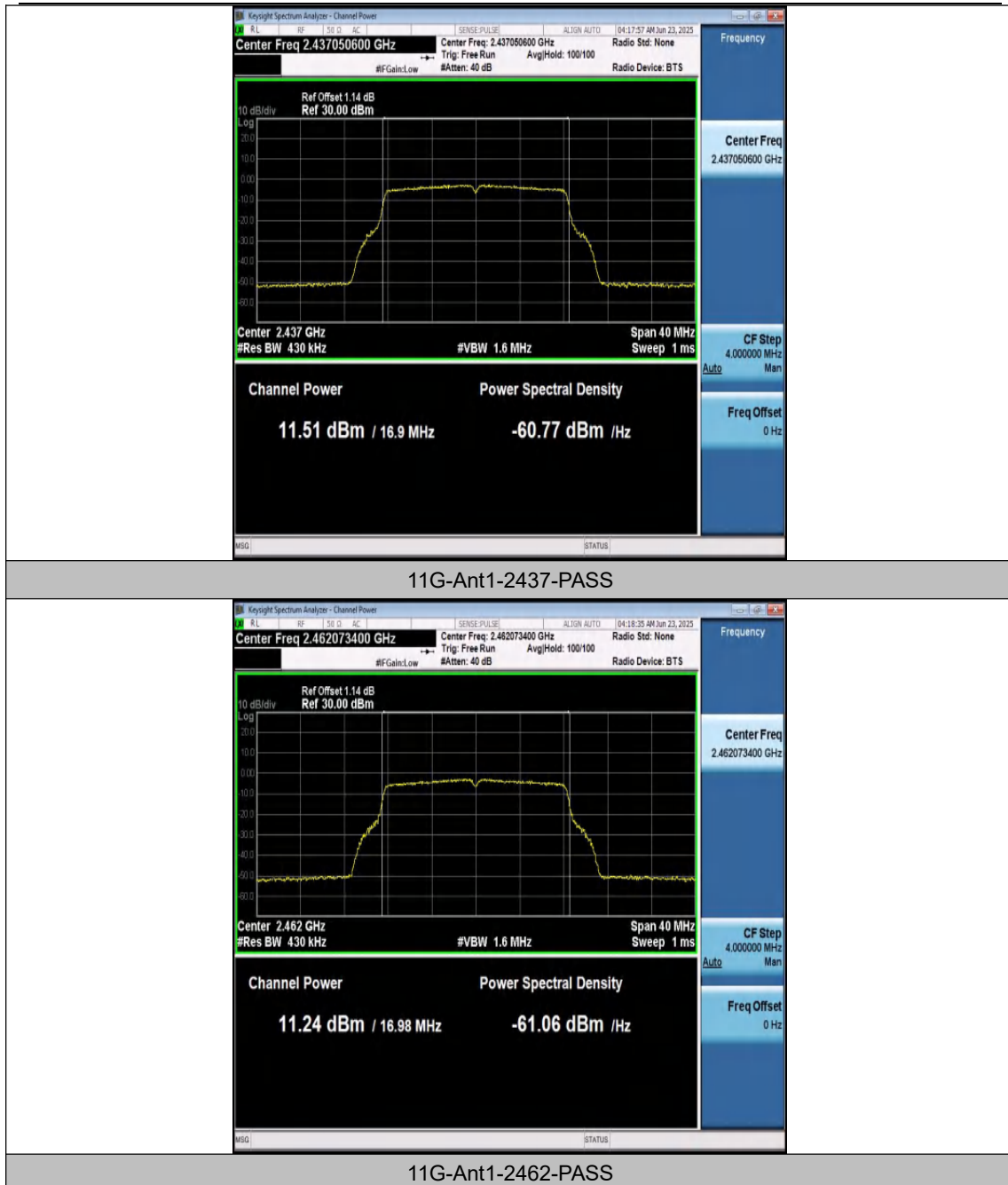


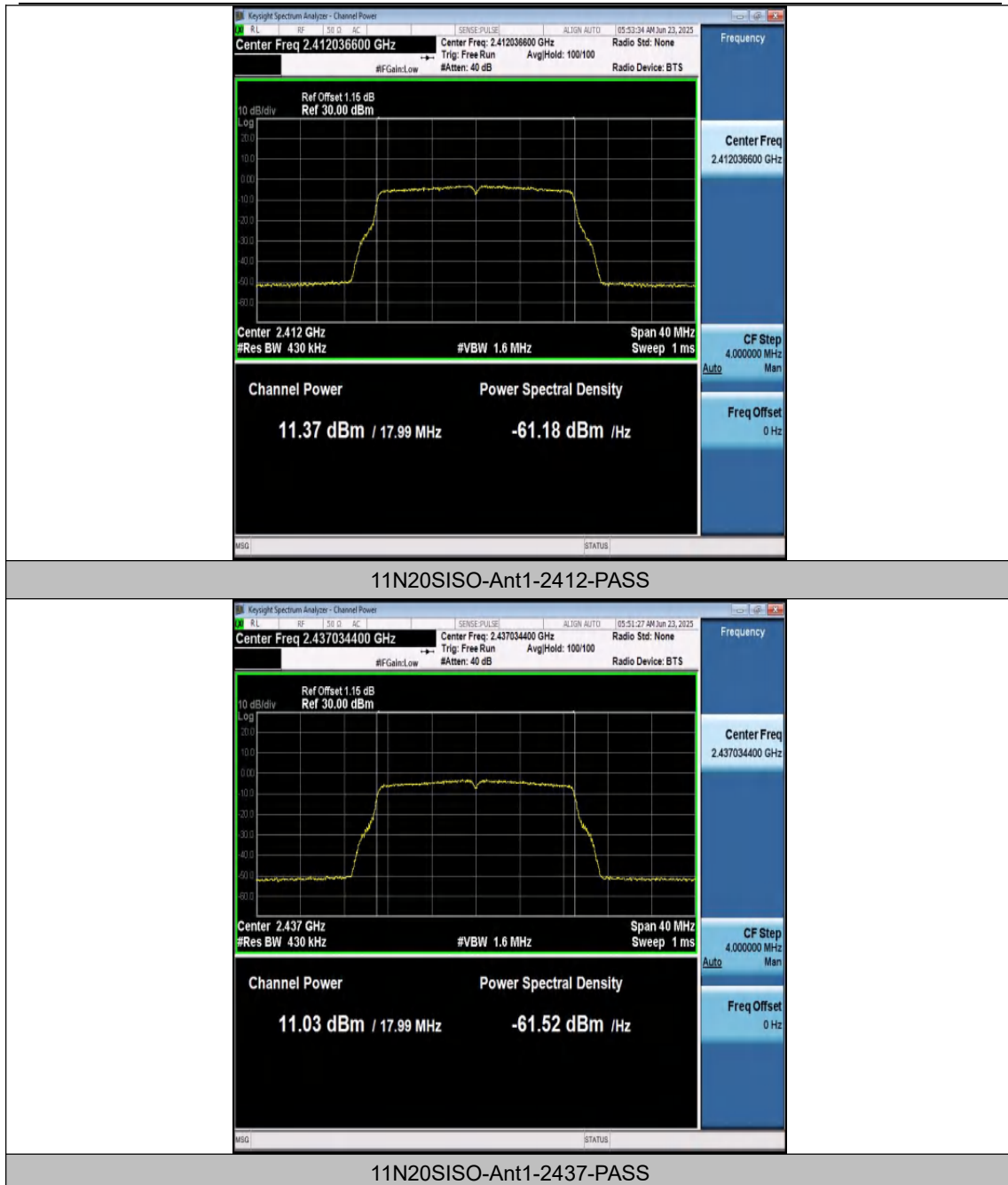
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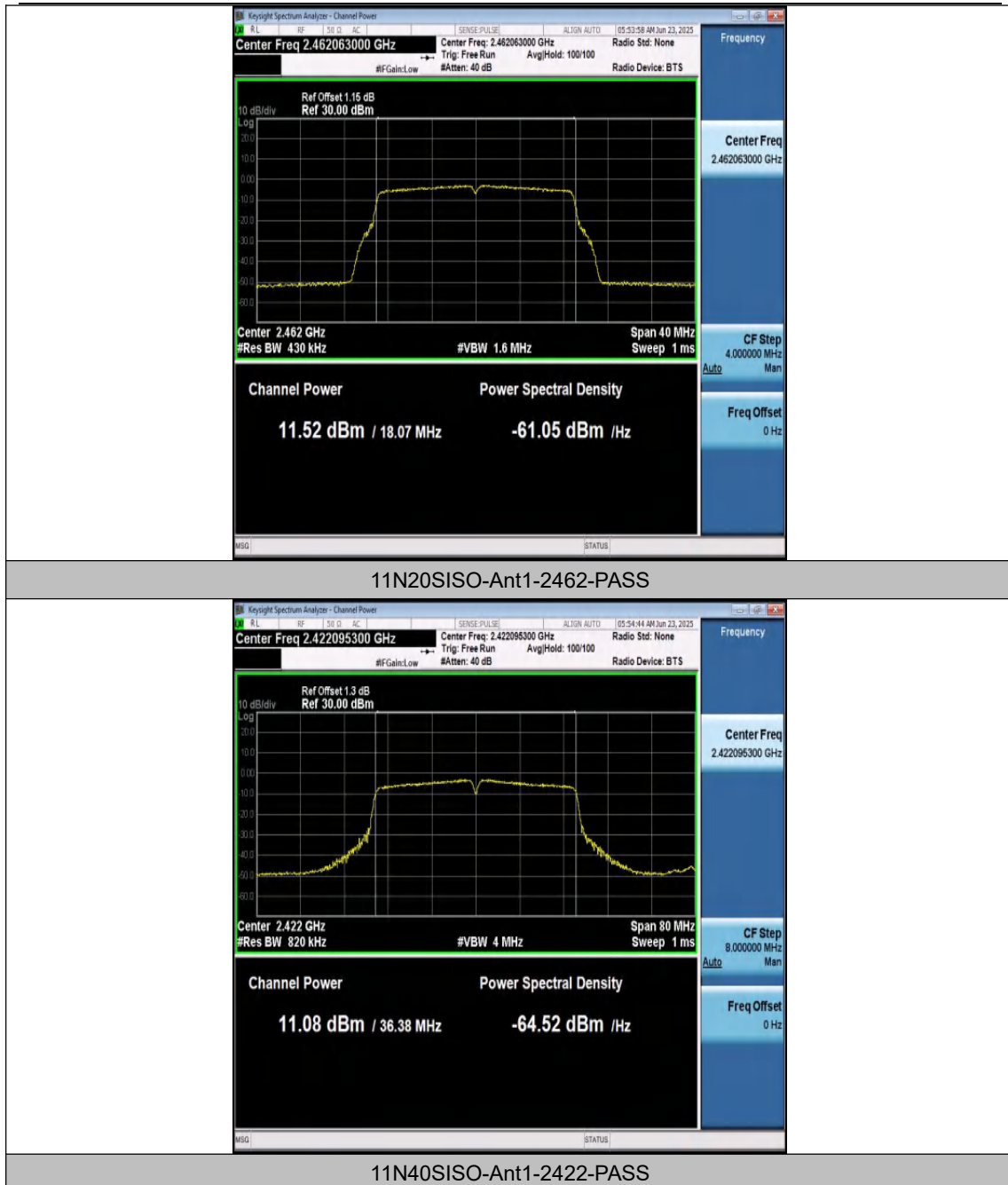
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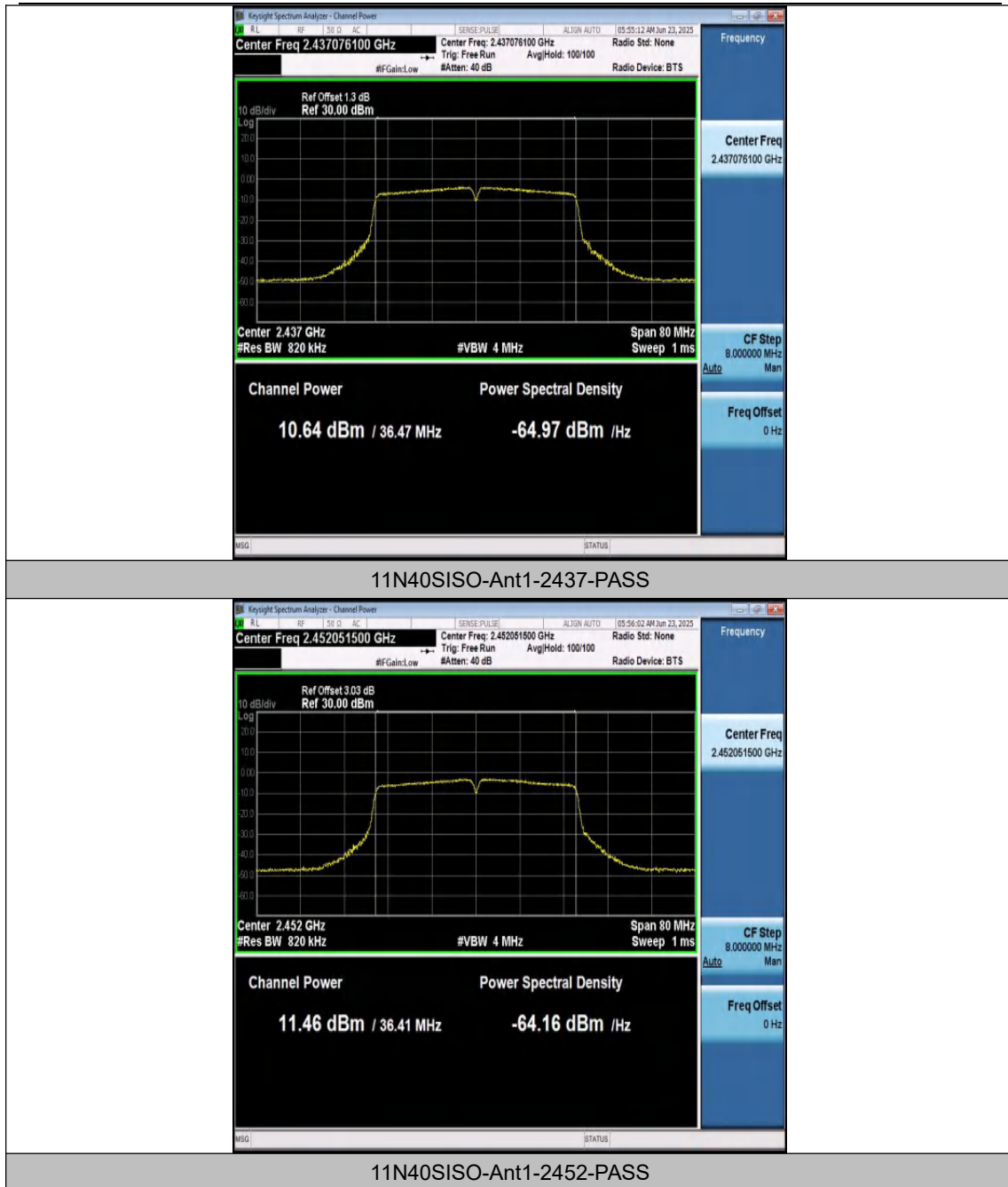
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Appendix D: Maximum power spectral density

Test Result

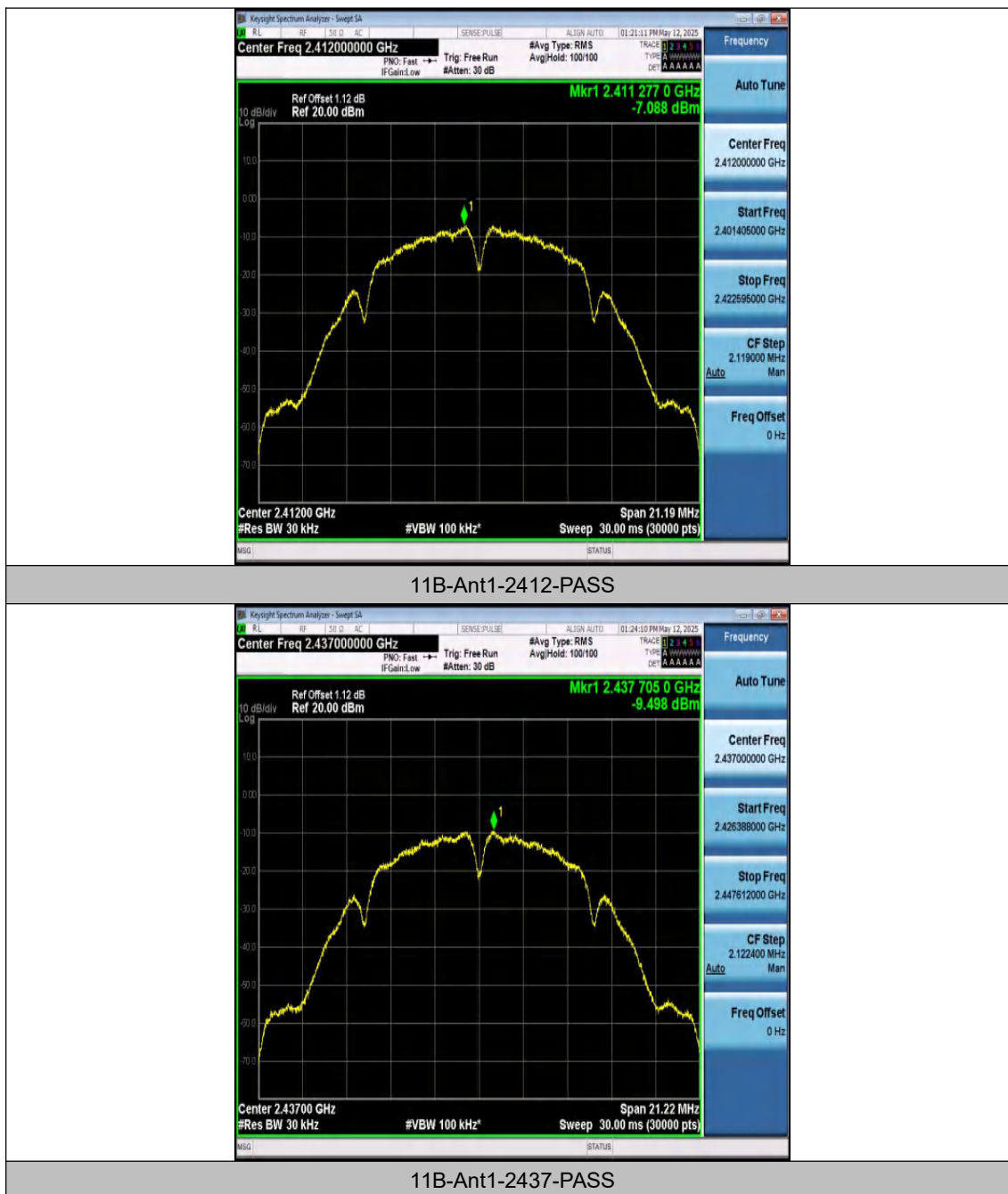
Test Mode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.09	-17.09	≤8.00	PASS
11B	Ant1	2437	-9.50	-19.5	≤8.00	PASS
11B	Ant1	2462	-9.38	-19.38	≤8.00	PASS
11G	Ant1	2412	-11.79	-21.79	≤8.00	PASS
11G	Ant1	2437	-12.90	-22.9	≤8.00	PASS
11G	Ant1	2462	-12.86	-22.86	≤8.00	PASS
11N20SISO	Ant1	2412	-12.99	-22.99	≤8.00	PASS
11N20SISO	Ant1	2437	-13.10	-23.1	≤8.00	PASS
11N20SISO	Ant1	2462	-13.67	-23.67	≤8.00	PASS
11N40SISO	Ant1	2422	-15.23	-25.23	≤8.00	PASS
11N40SISO	Ant1	2437	-16.01	-26.01	≤8.00	PASS
11N40SISO	Ant1	2452	-13.46	-23.46	≤8.00	PASS

Note:

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



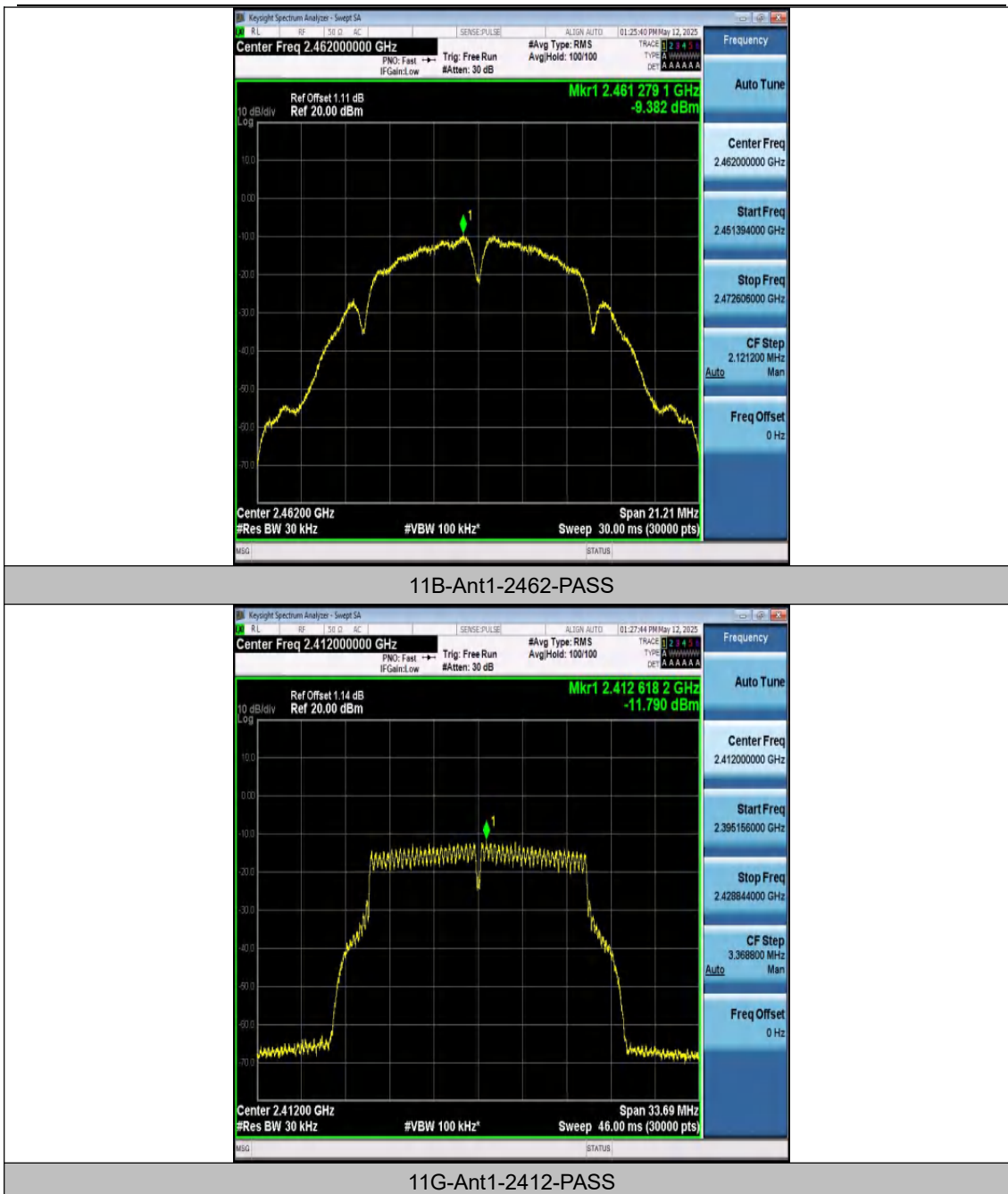
Test Graphs



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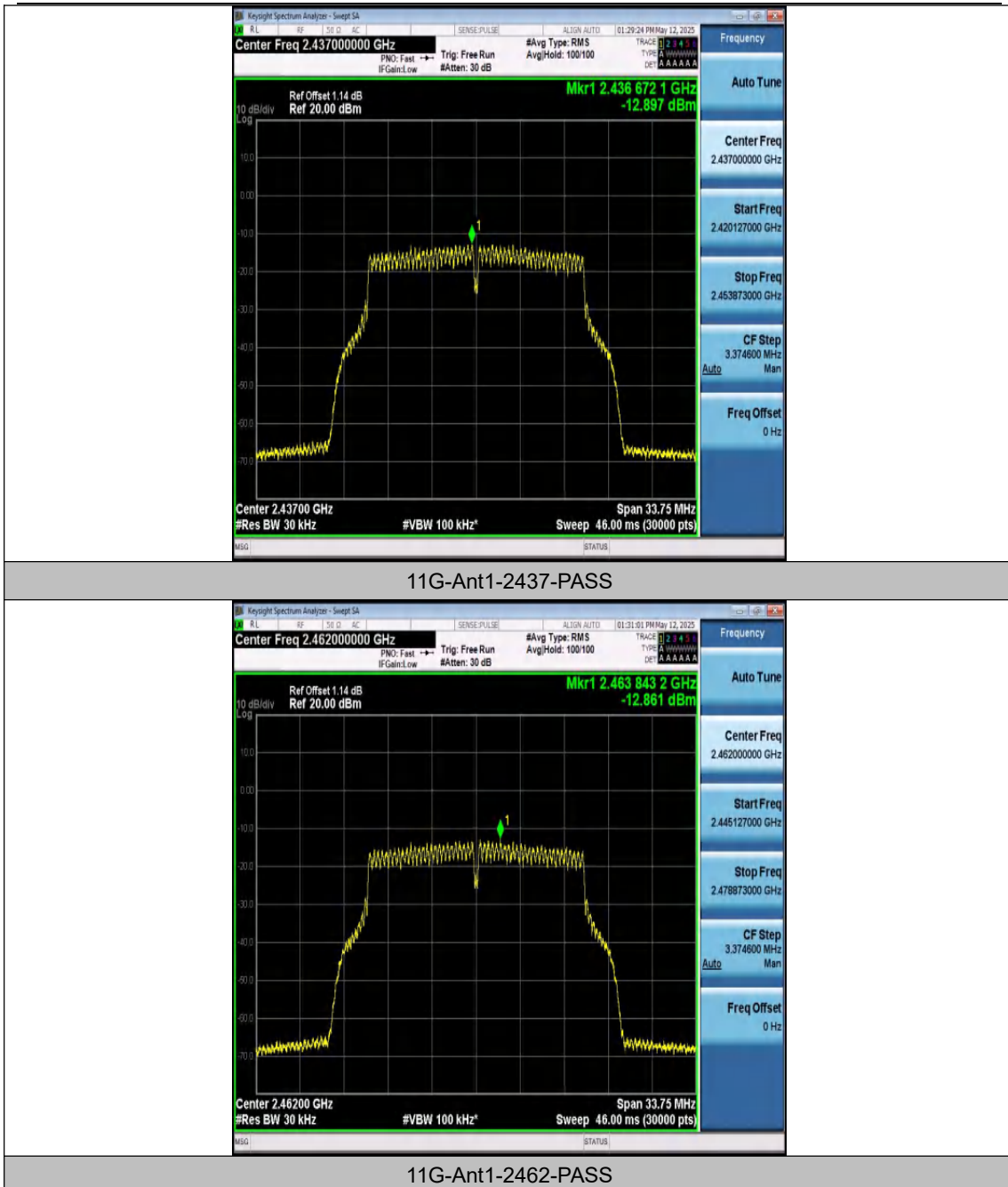
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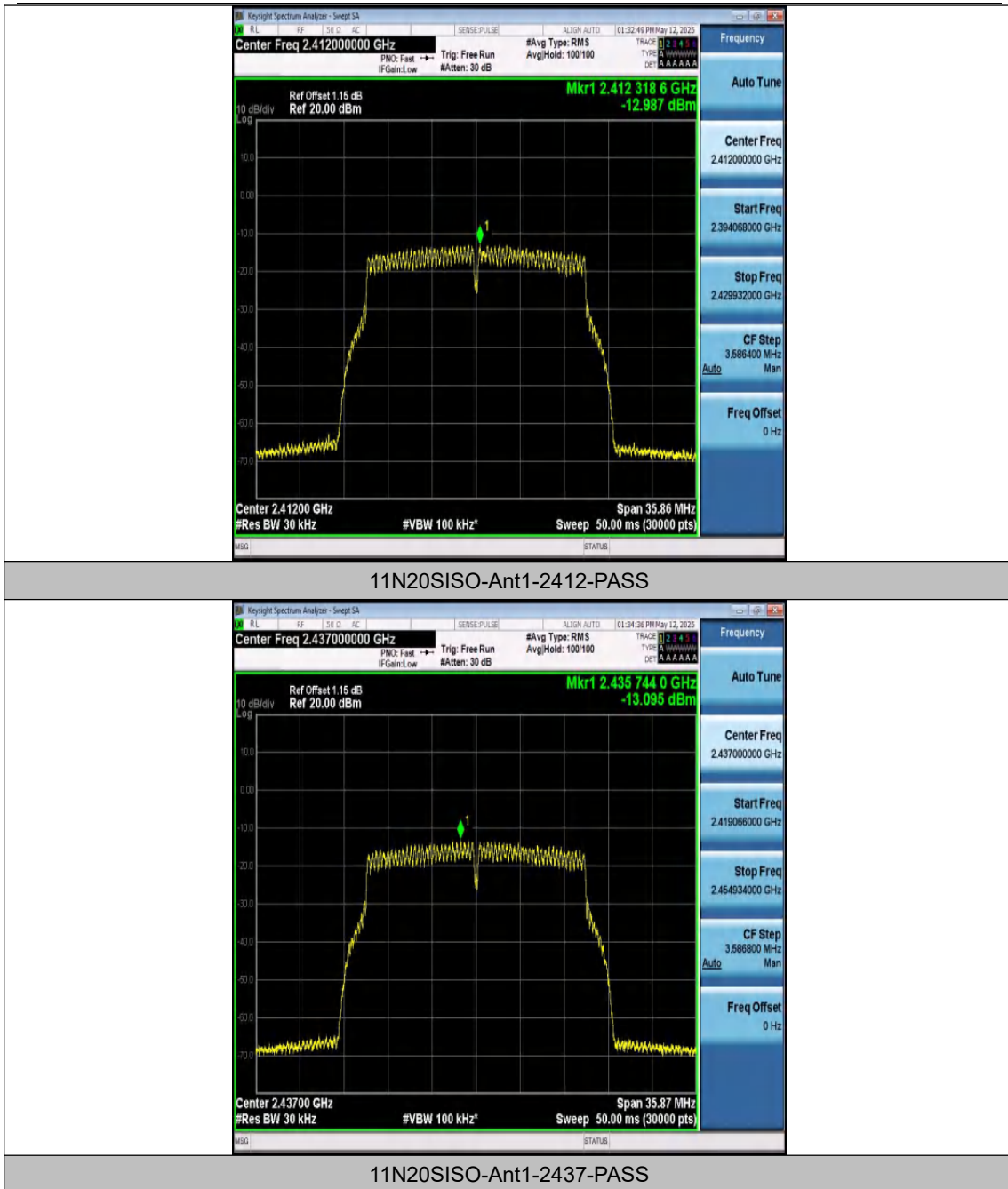
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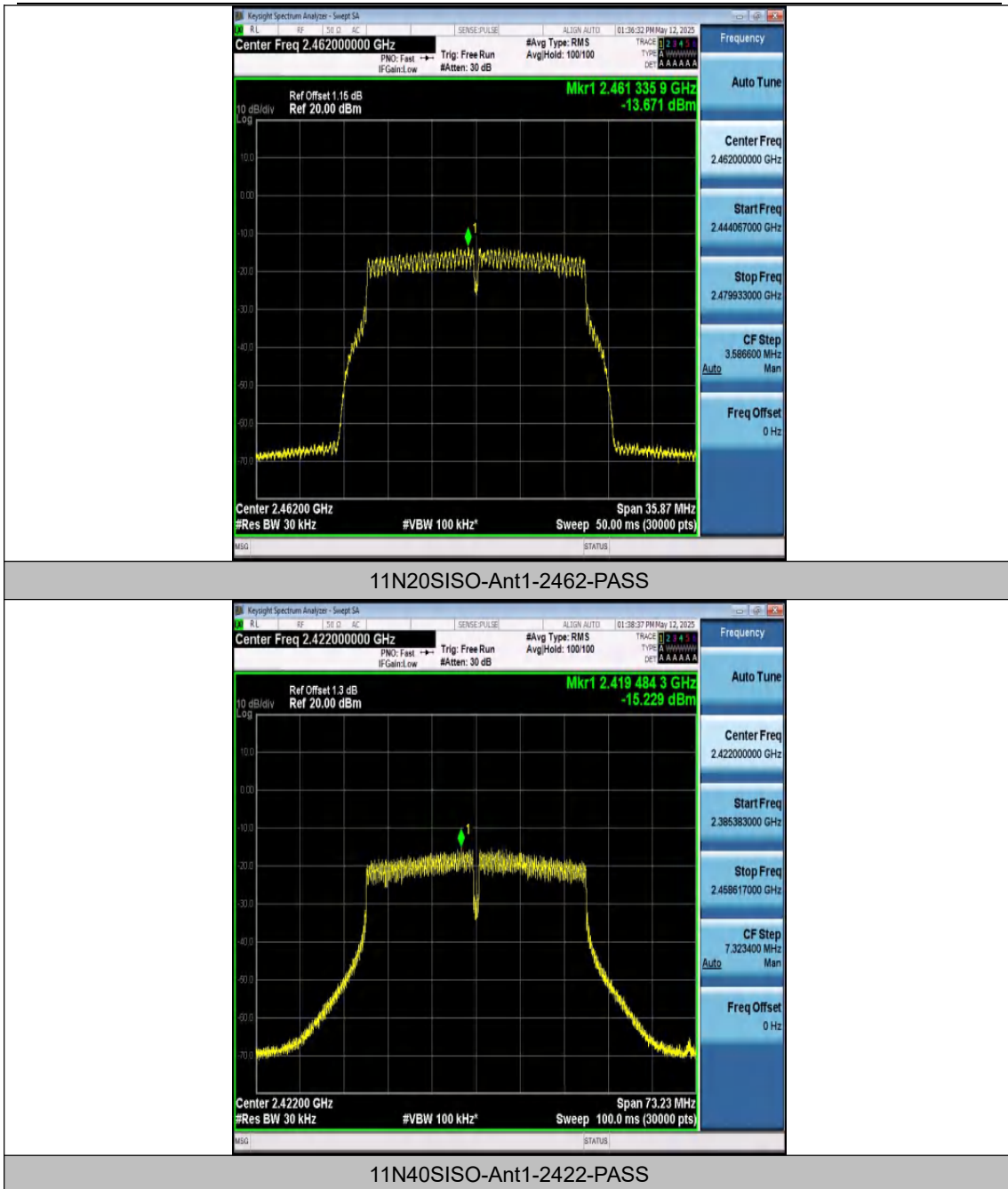
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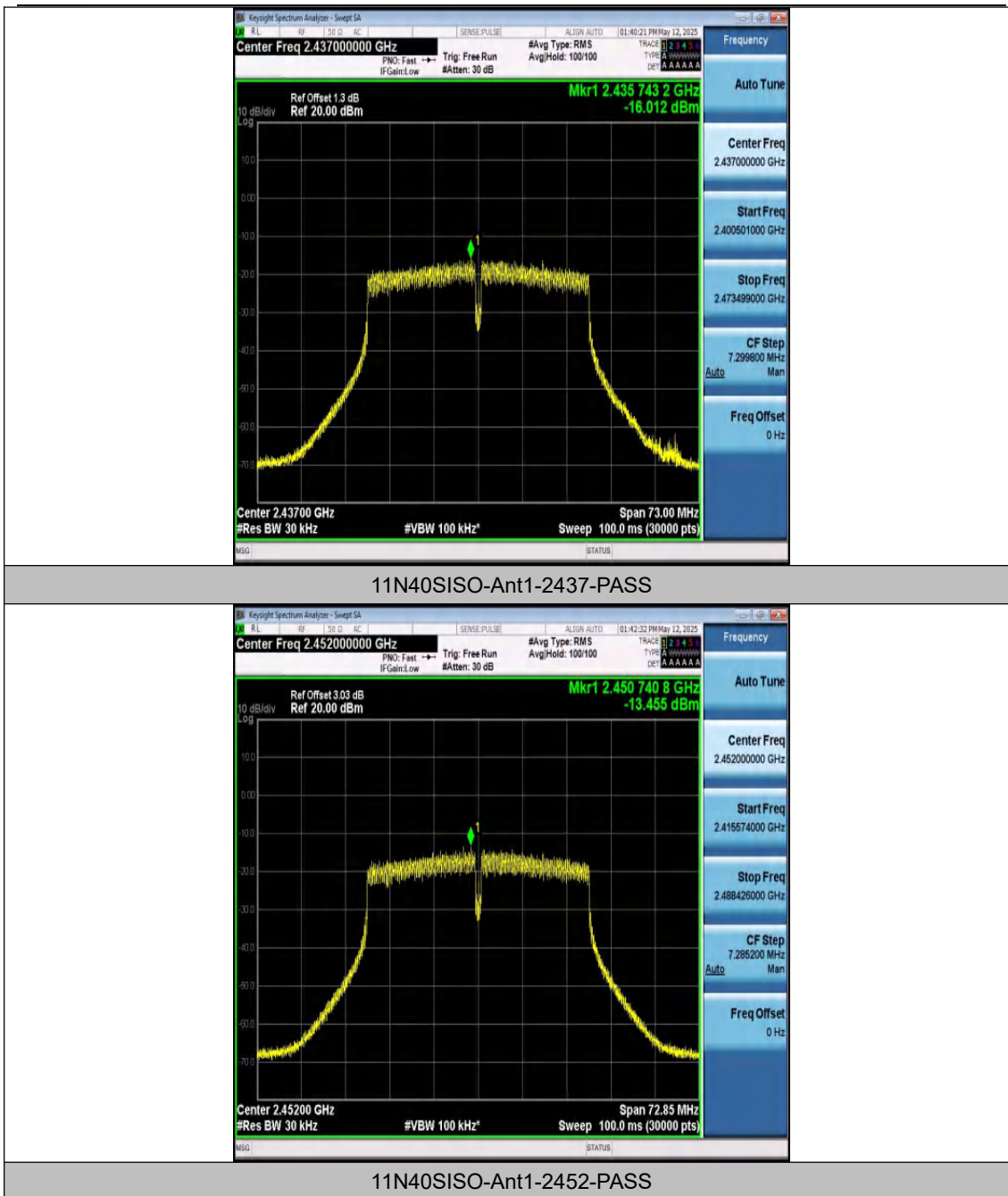
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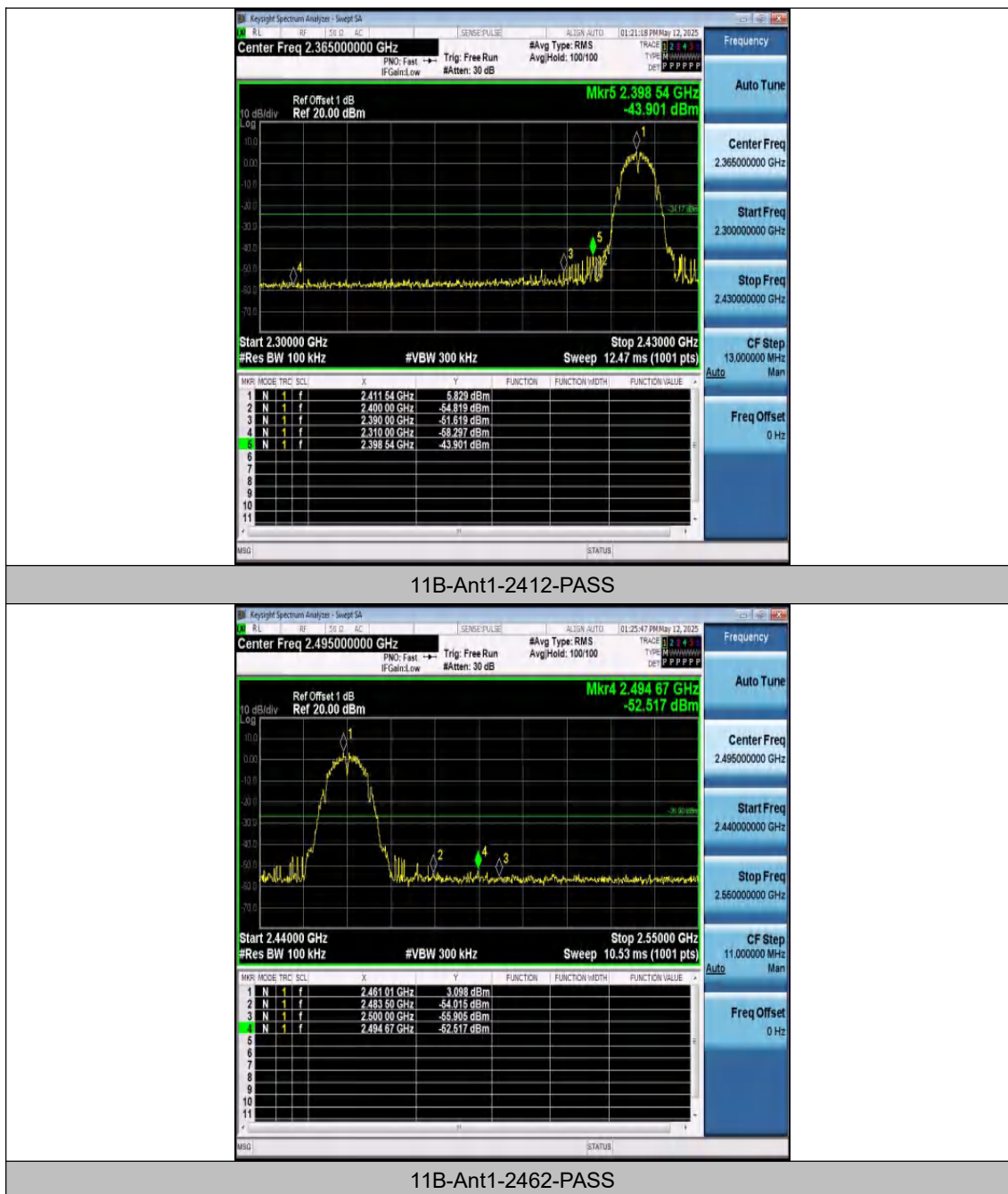
Appendix E: Conducted Band edge

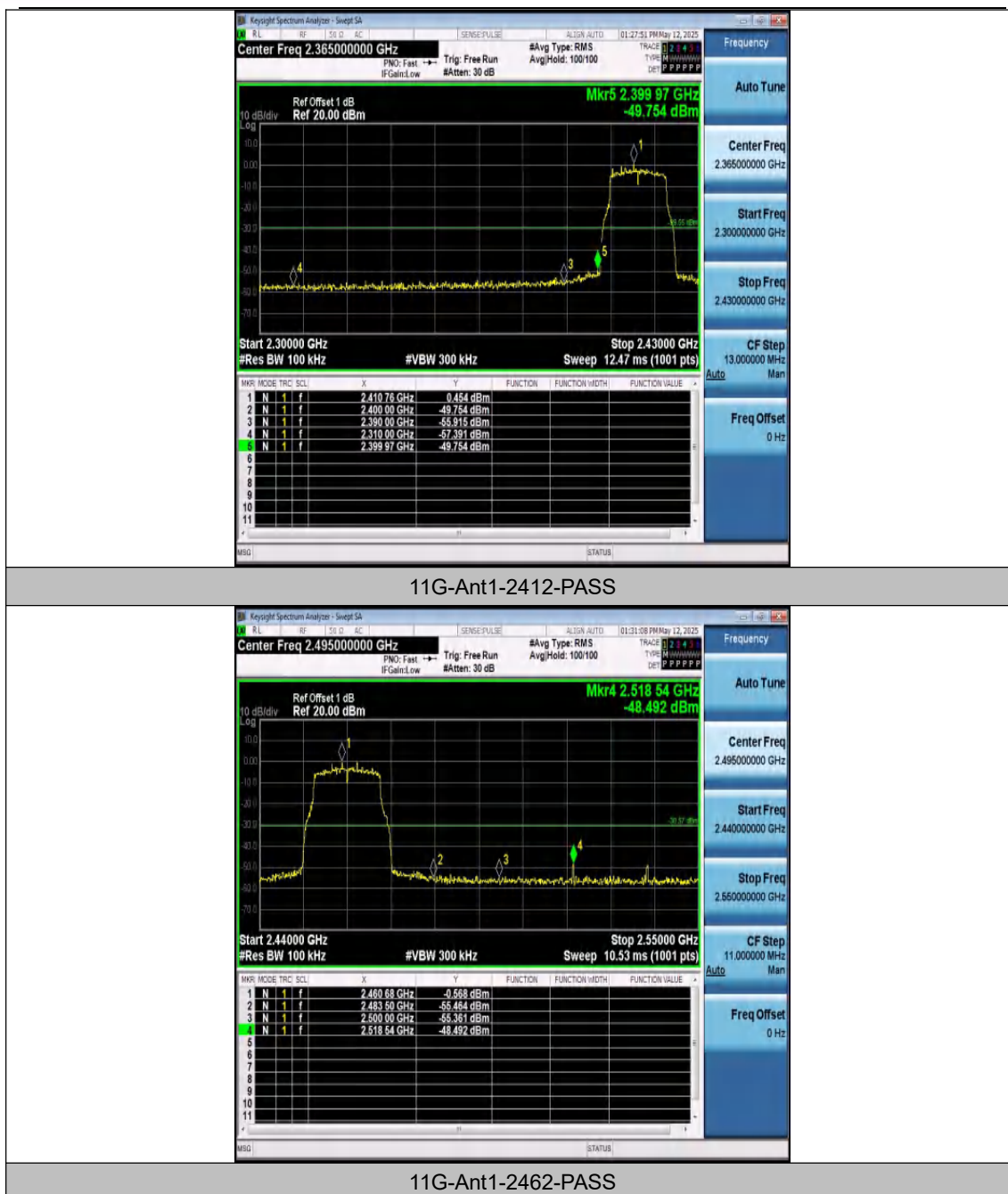
Test Result

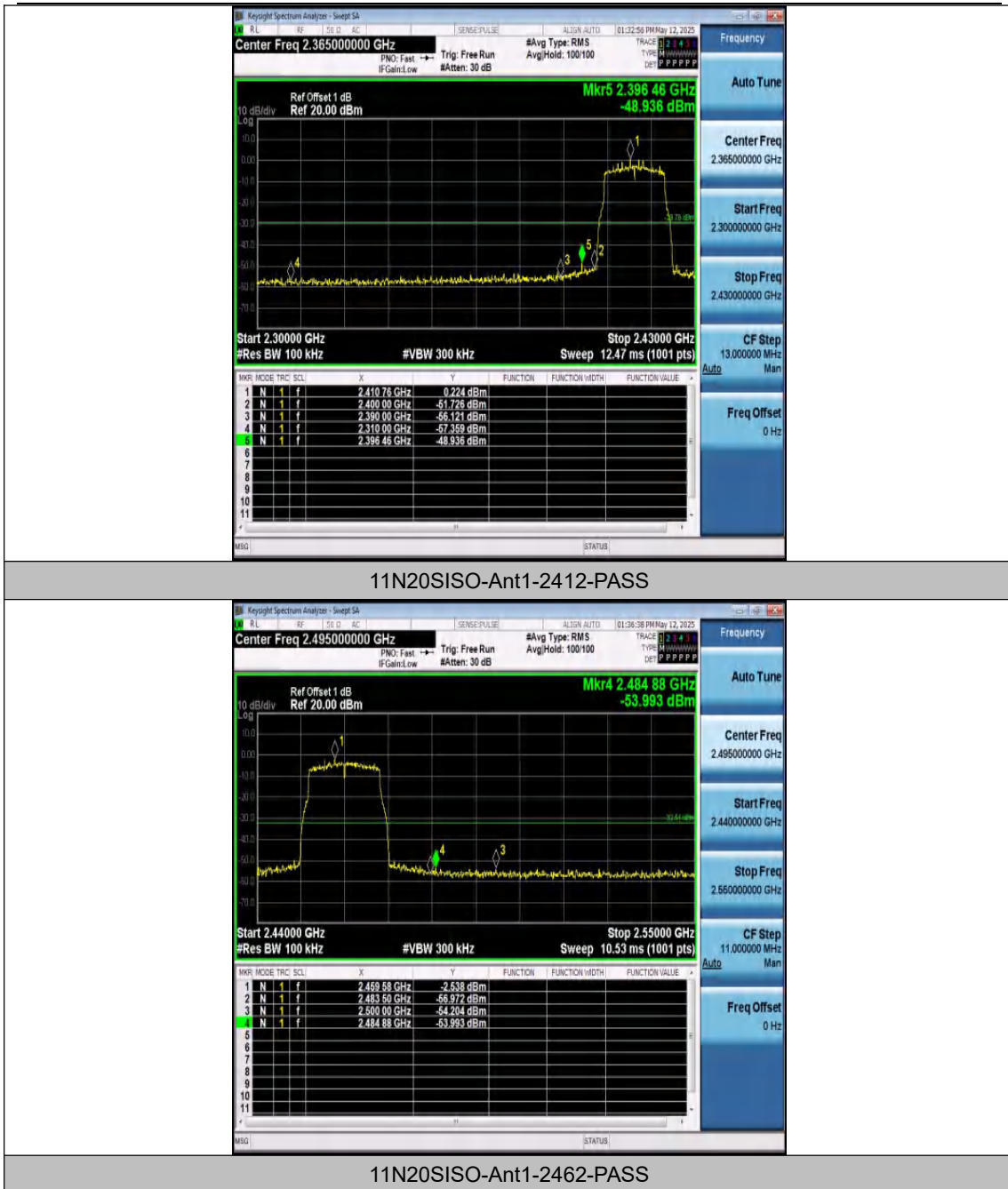
Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.83	-43.9	≤-24.17	PASS
11B	Ant1	High	2462	3.10	-52.52	≤-26.9	PASS
11G	Ant1	Low	2412	0.45	-49.75	≤-29.55	PASS
11G	Ant1	High	2462	-0.57	-48.49	≤-30.57	PASS
11N20SISO	Ant1	Low	2412	0.22	-48.94	≤-29.78	PASS
11N20SISO	Ant1	High	2462	-2.54	-53.99	≤-32.54	PASS
11N40SISO	Ant1	Low	2422	-2.81	-37.77	≤-32.81	PASS
11N40SISO	Ant1	High	2452	-3.55	-53.41	≤-33.55	PASS

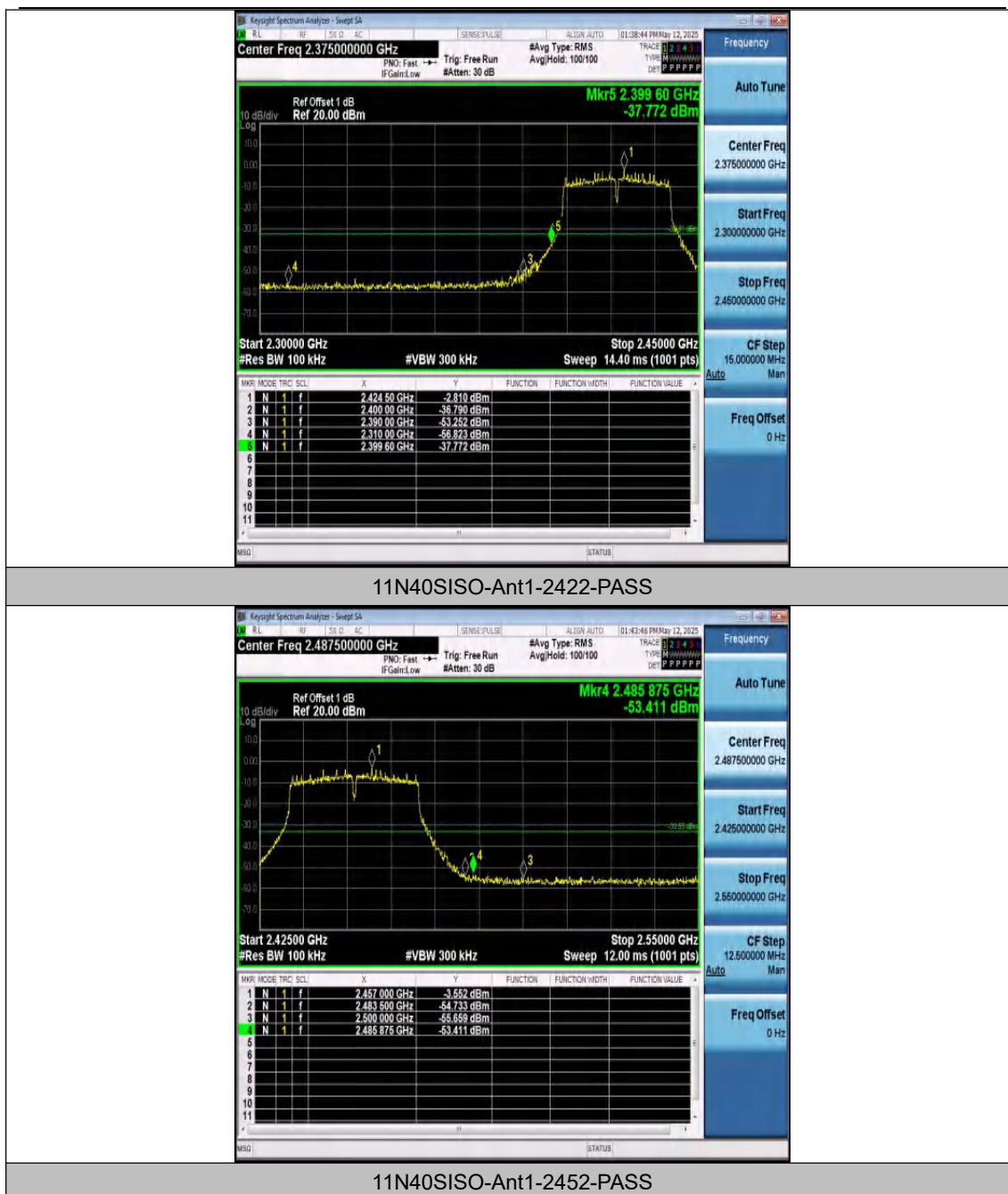
Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

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	2.67	2.67	---	PASS
11B	Ant1	2412	30~1000	2.67	-68.61	≤-27.33	PASS
11B	Ant1	2412	1000~26500	2.67	-51.71	≤-27.33	PASS
11B	Ant1	2437	0~Reference	2.41	2.41	---	PASS
11B	Ant1	2437	30~1000	2.41	-67.82	≤-27.59	PASS
11B	Ant1	2437	1000~26500	2.41	-52.96	≤-27.59	PASS
11B	Ant1	2462	0~Reference	1.52	1.52	---	PASS
11B	Ant1	2462	30~1000	1.52	-68.83	≤-28.48	PASS
11B	Ant1	2462	1000~26500	1.52	-52.87	≤-28.48	PASS
11G	Ant1	2412	0~Reference	-1.27	-1.27	---	PASS
11G	Ant1	2412	30~1000	-1.27	-68	≤-31.27	PASS
11G	Ant1	2412	1000~26500	-1.27	-52.34	≤-31.27	PASS
11G	Ant1	2437	0~Reference	-2.84	-2.84	---	PASS
11G	Ant1	2437	30~1000	-2.84	-68.86	≤-32.84	PASS
11G	Ant1	2437	1000~26500	-2.84	-50.99	≤-32.84	PASS
11G	Ant1	2462	0~Reference	-1.65	-1.65	---	PASS
11G	Ant1	2462	30~1000	-1.65	-67.85	≤-31.65	PASS
11G	Ant1	2462	1000~26500	-1.65	-53.57	≤-31.65	PASS
11N20SISO	Ant1	2412	0~Reference	-3.02	-3.02	---	PASS
11N20SISO	Ant1	2412	30~1000	-3.02	-69.14	≤-33.02	PASS
11N20SISO	Ant1	2412	1000~26500	-3.02	-51.94	≤-33.02	PASS
11N20SISO	Ant1	2437	0~Reference	-1.32	-1.32	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.32	-68.37	≤-31.32	PASS
11N20SISO	Ant1	2437	1000~26500	-1.32	-53.12	≤-31.32	PASS
11N20SISO	Ant1	2462	0~Reference	-2.00	-2.00	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.00	-68.82	≤-32	PASS
11N20SISO	Ant1	2462	1000~26500	-2.00	-53.04	≤-32	PASS
11N40SISO	Ant1	2422	0~Reference	-6.45	-6.45	---	PASS
11N40SISO	Ant1	2422	30~1000	-6.45	-61.59	≤-36.45	PASS
11N40SISO	Ant1	2422	1000~26500	-6.45	-53.33	≤-36.45	PASS
11N40SISO	Ant1	2437	0~Reference	-3.27	-3.27	---	PASS
11N40SISO	Ant1	2437	30~1000	-3.27	-68.69	≤-33.27	PASS
11N40SISO	Ant1	2437	1000~26500	-3.27	-53.68	≤-33.27	PASS
11N40SISO	Ant1	2452	0~Reference	-2.98	-2.98	---	PASS
11N40SISO	Ant1	2452	30~1000	-2.98	-68.53	≤-32.98	PASS
11N40SISO	Ant1	2452	1000~26500	-2.98	-46.49	≤-32.98	PASS

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Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

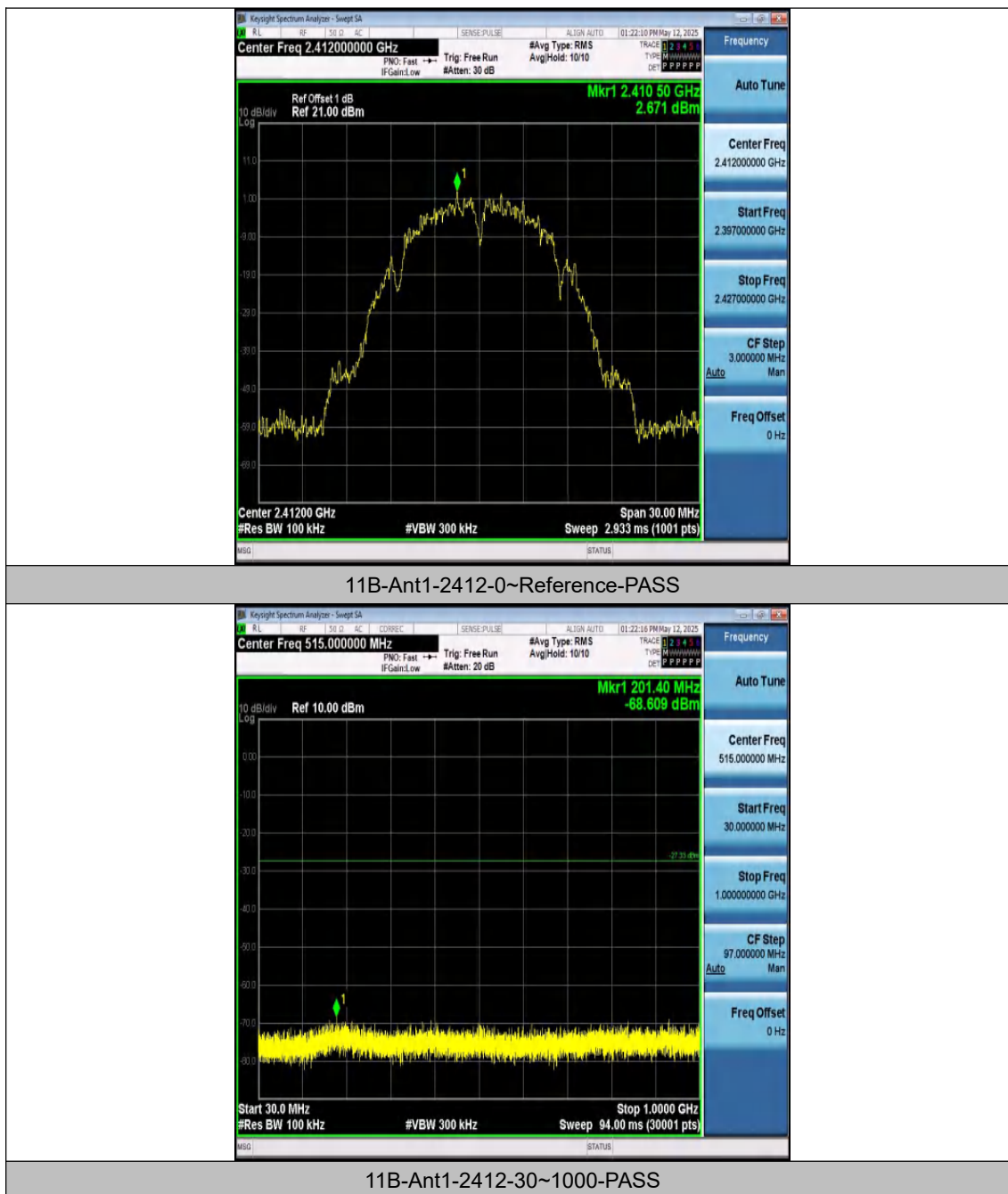
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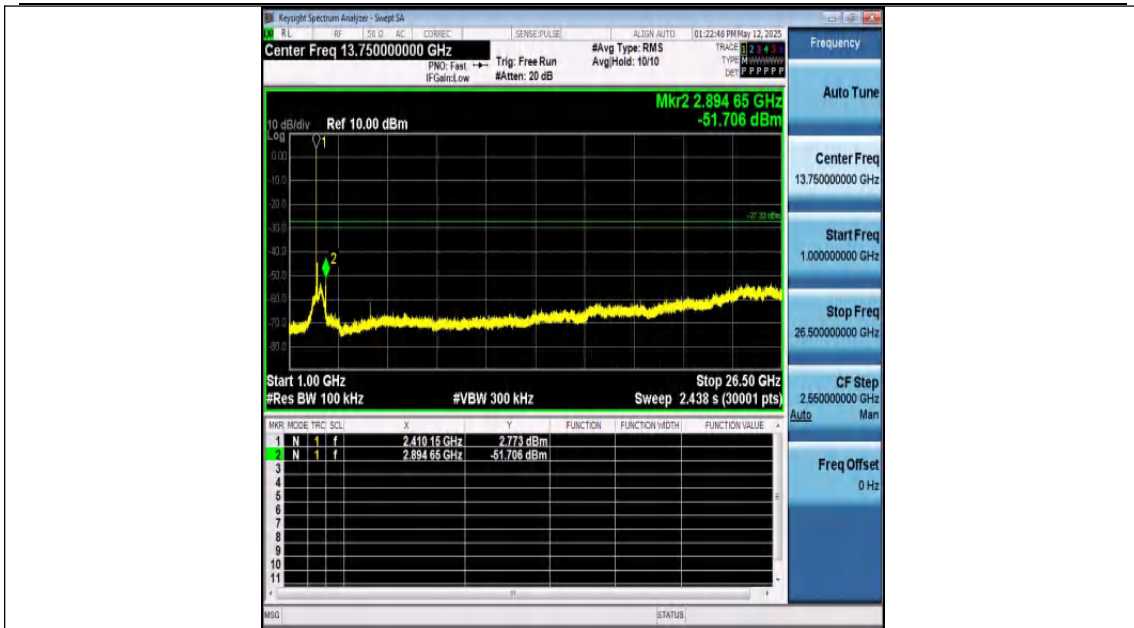
Test Graphs



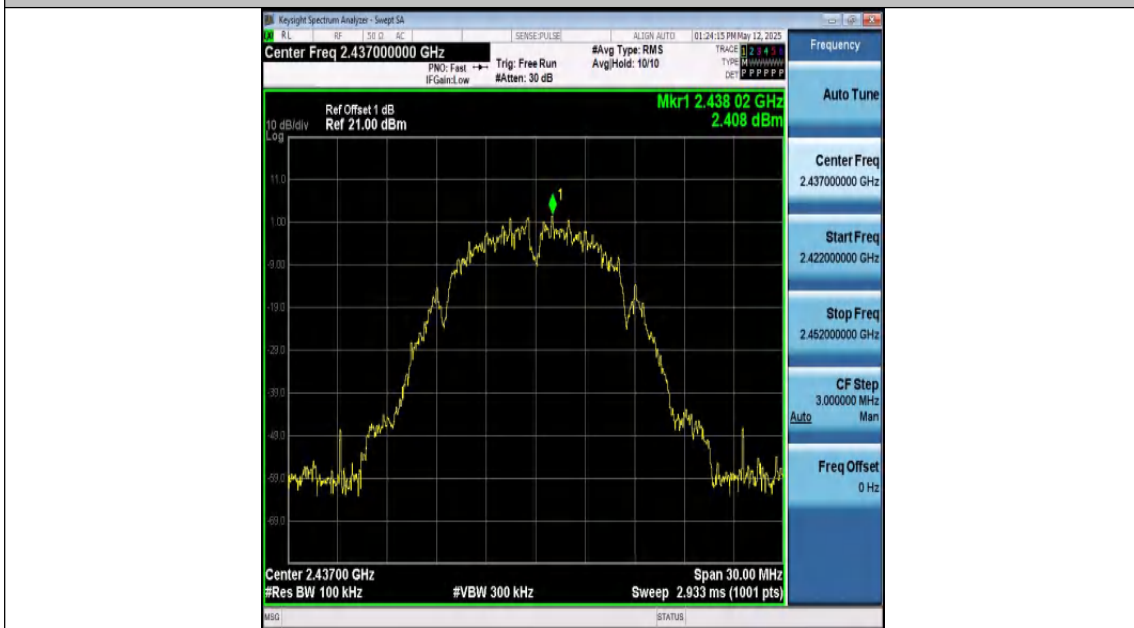
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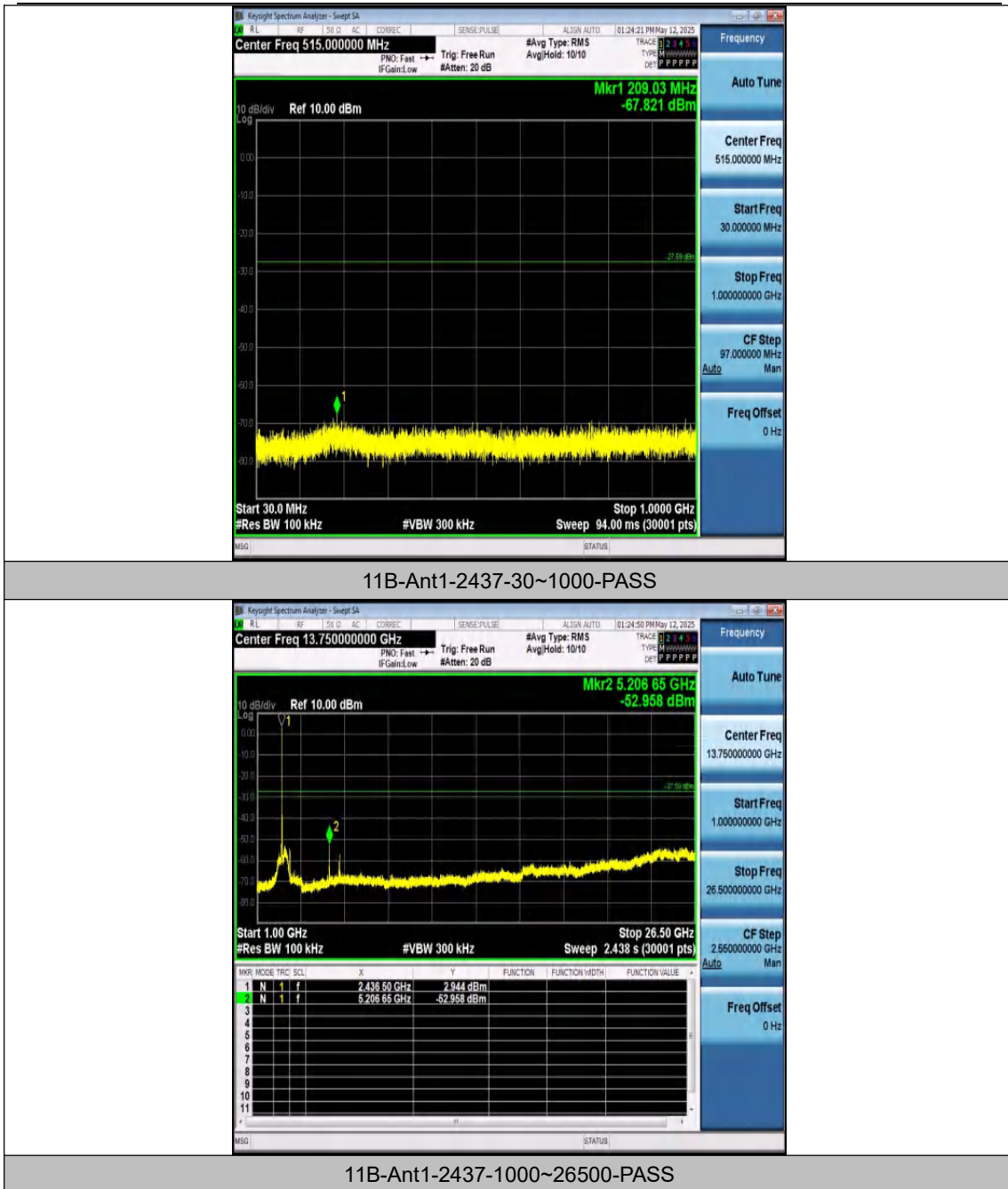
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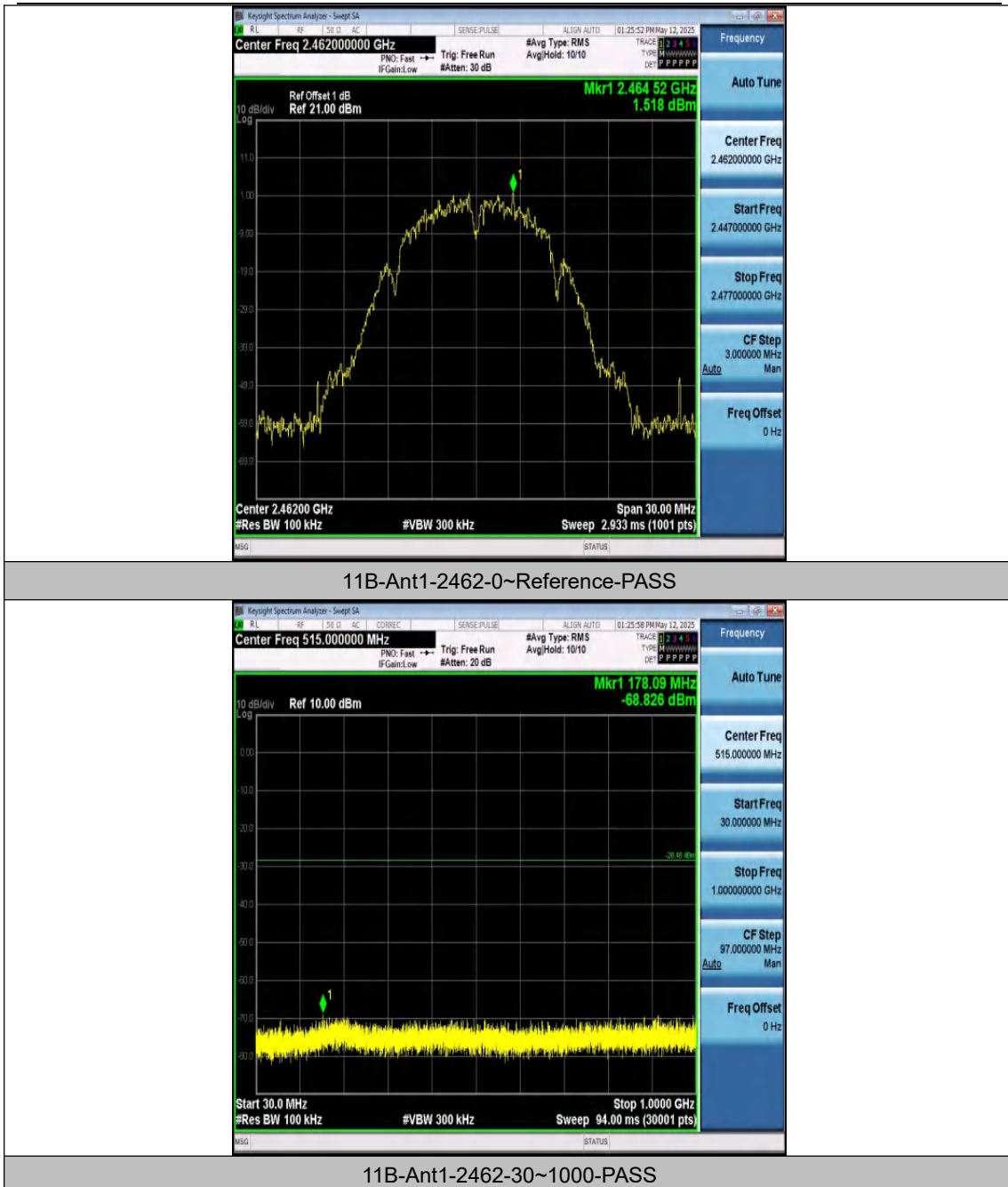


11B-Ant1-2412-1000~26500-PASS



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

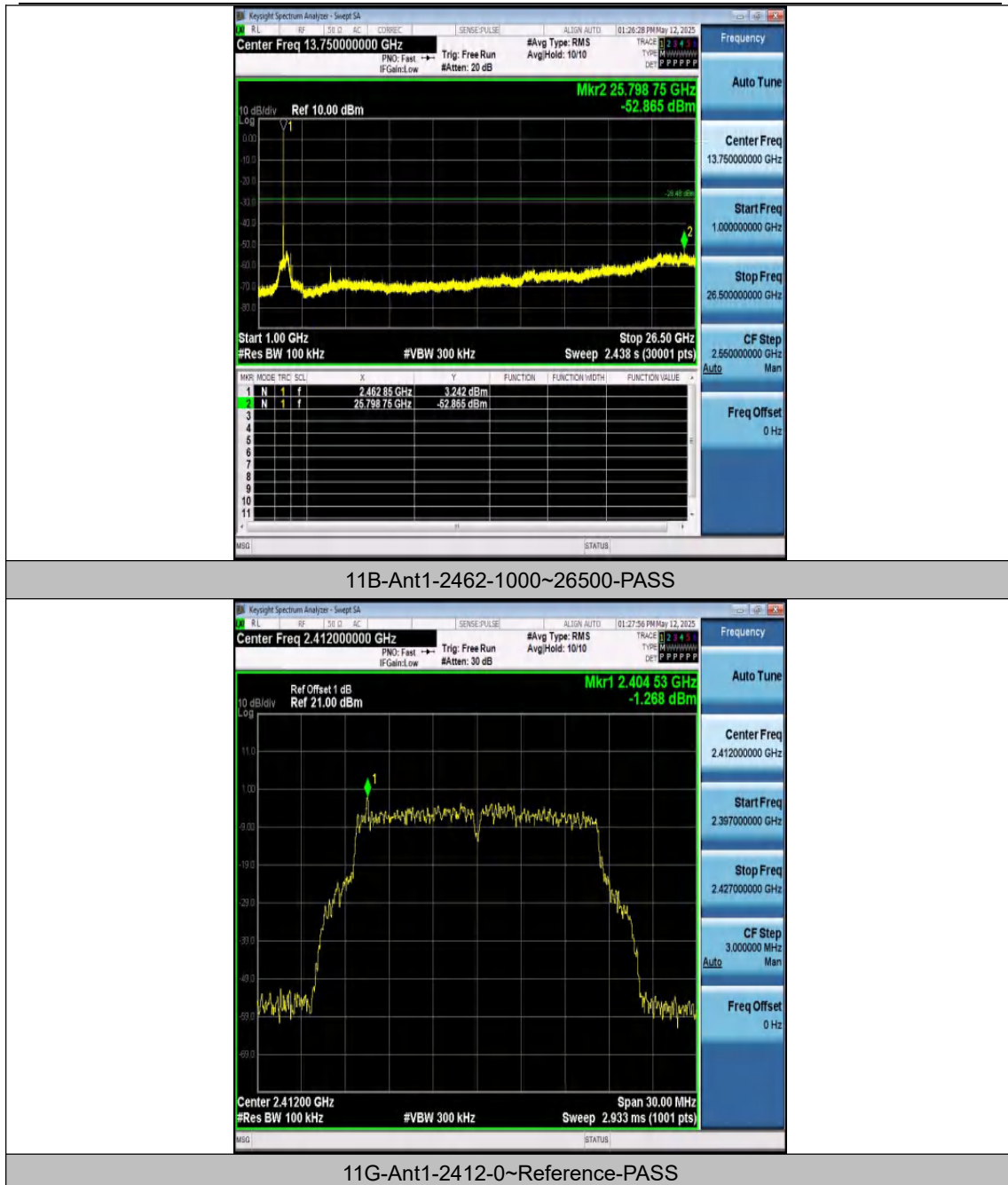




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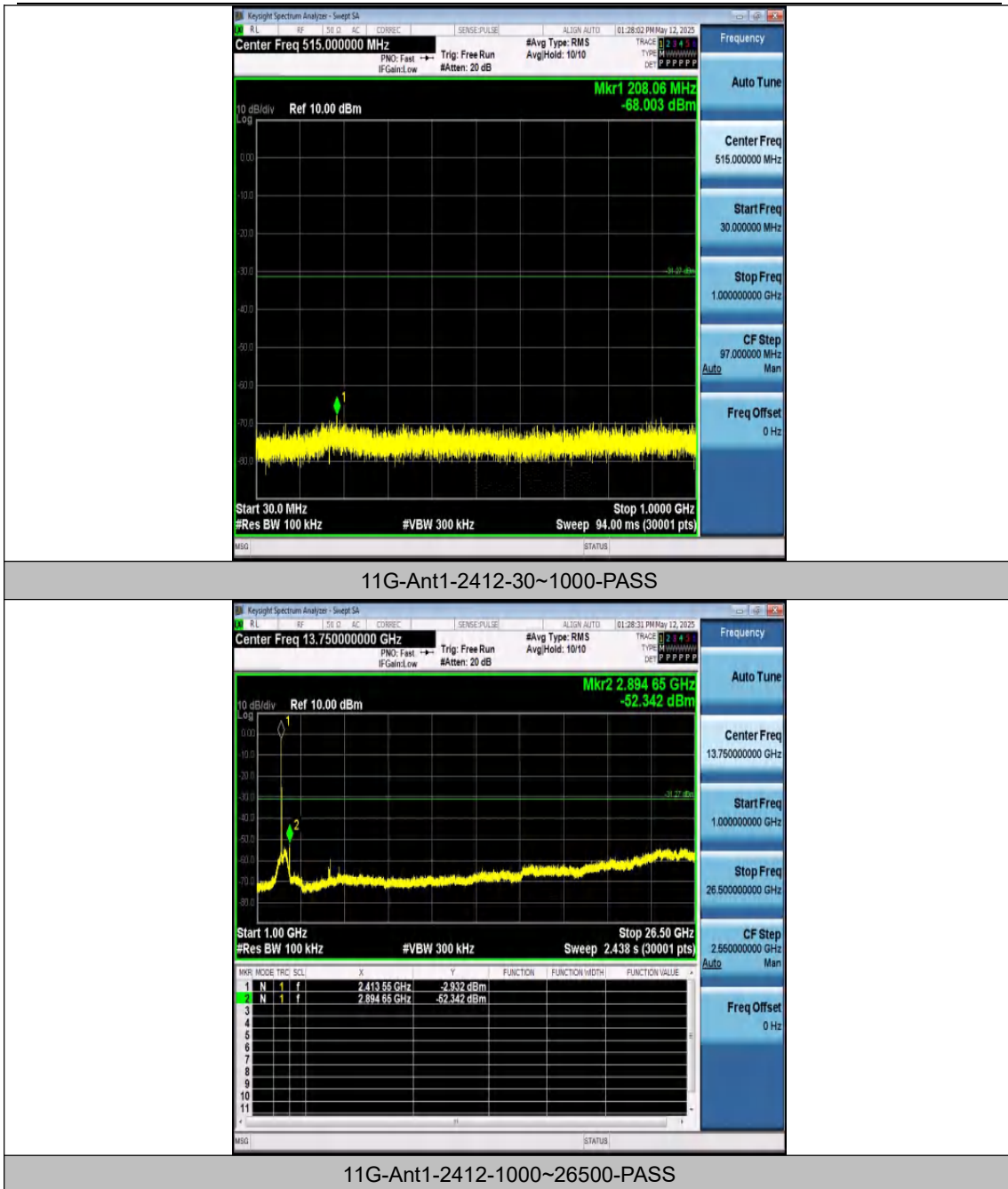
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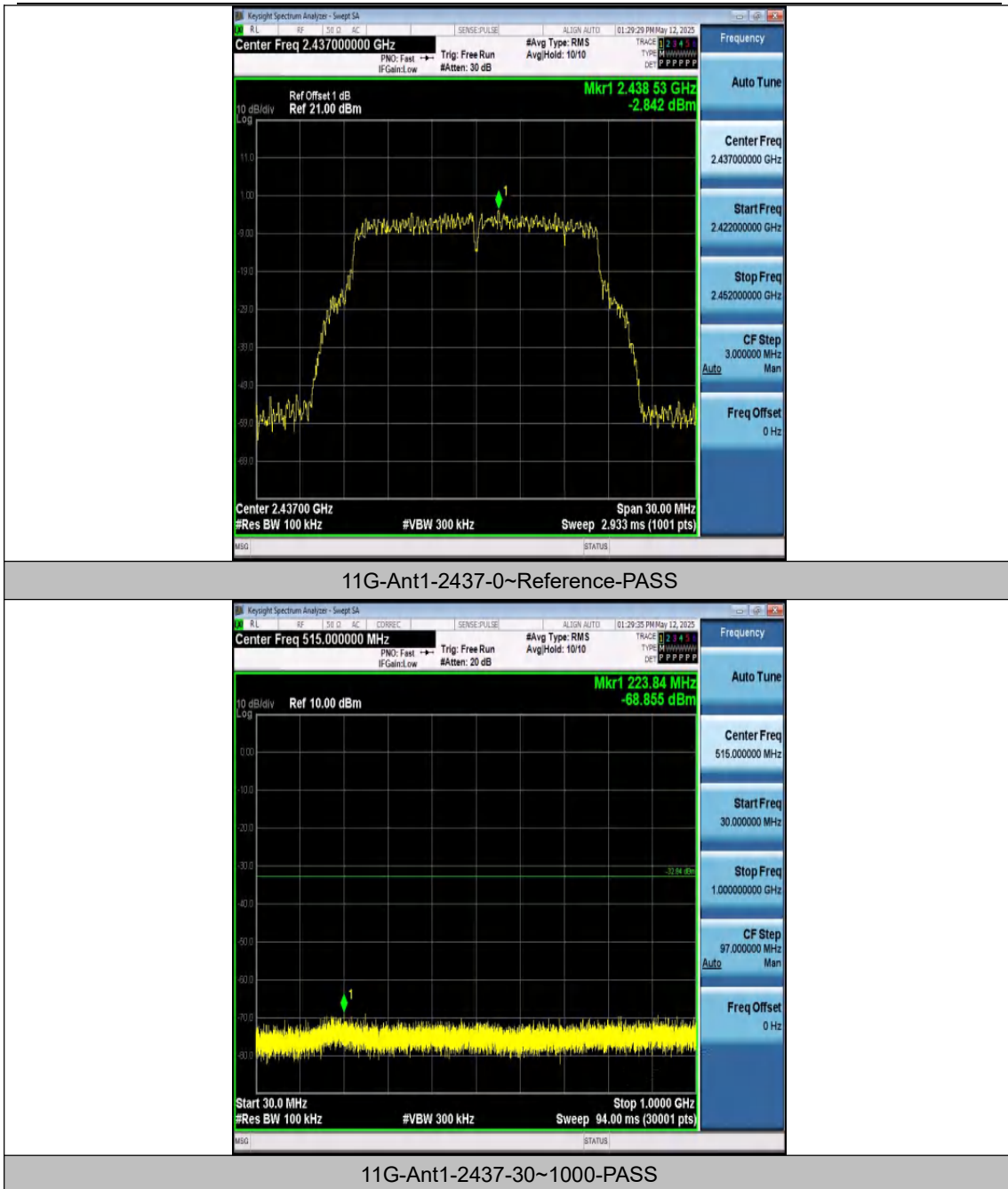


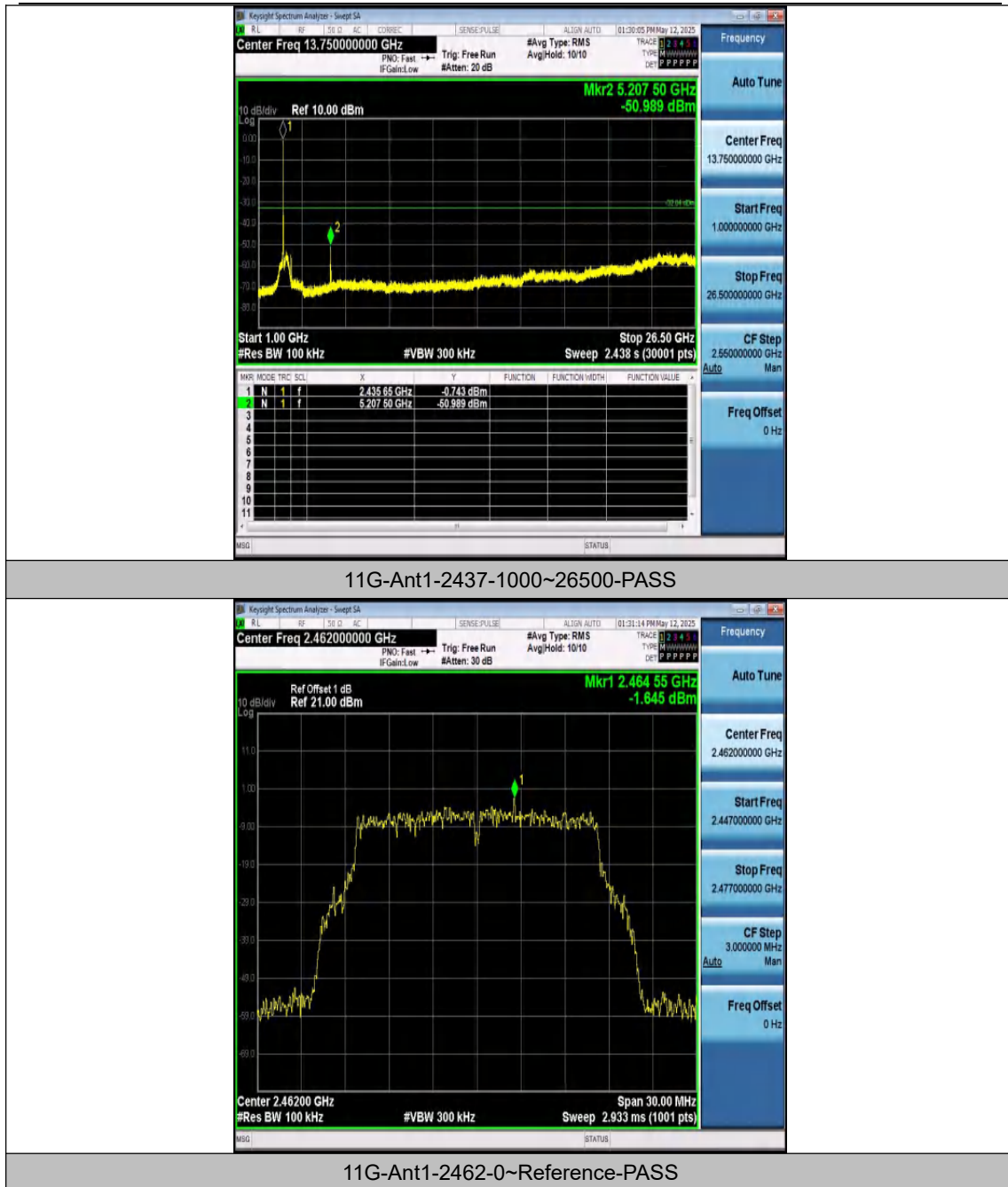
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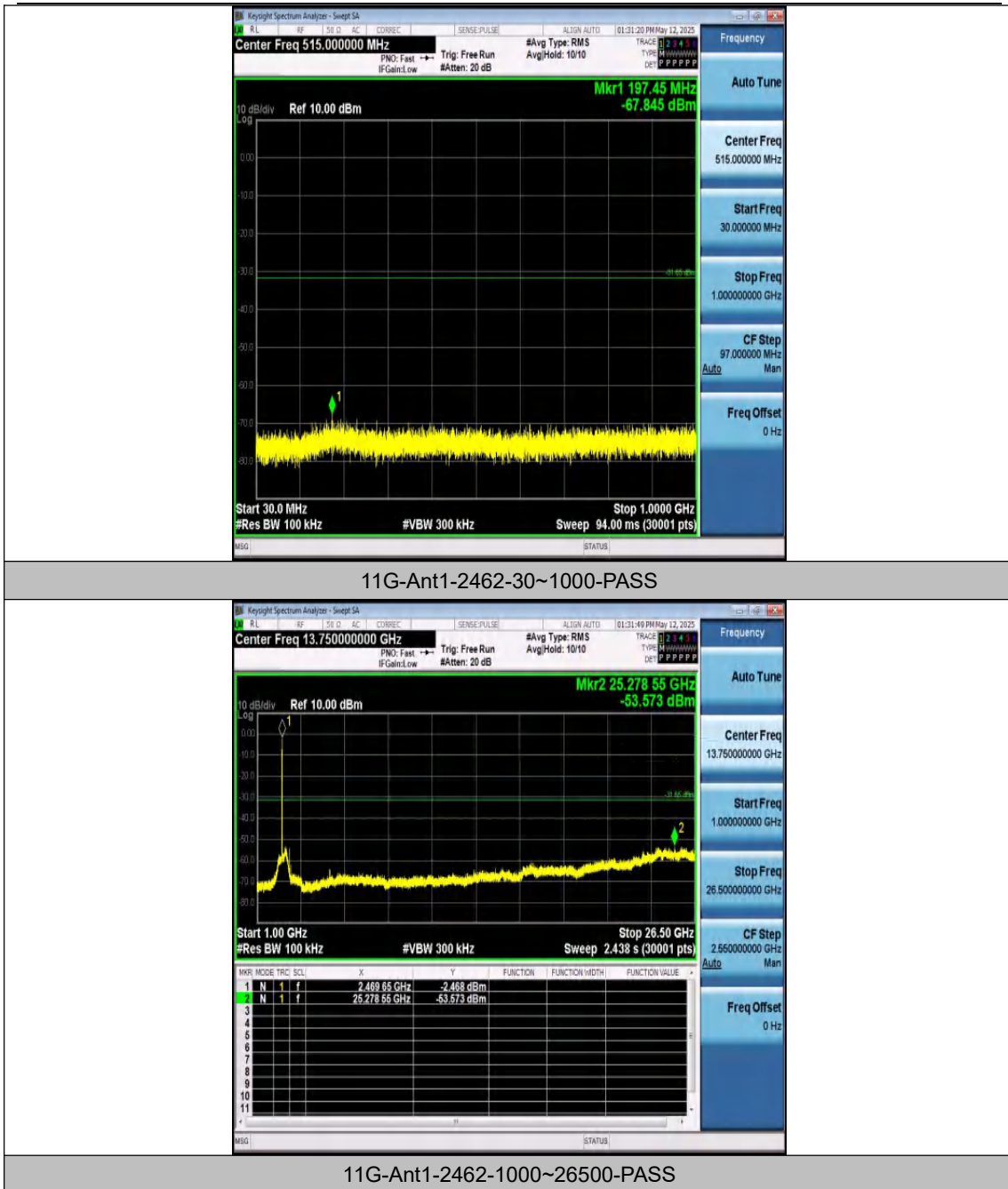
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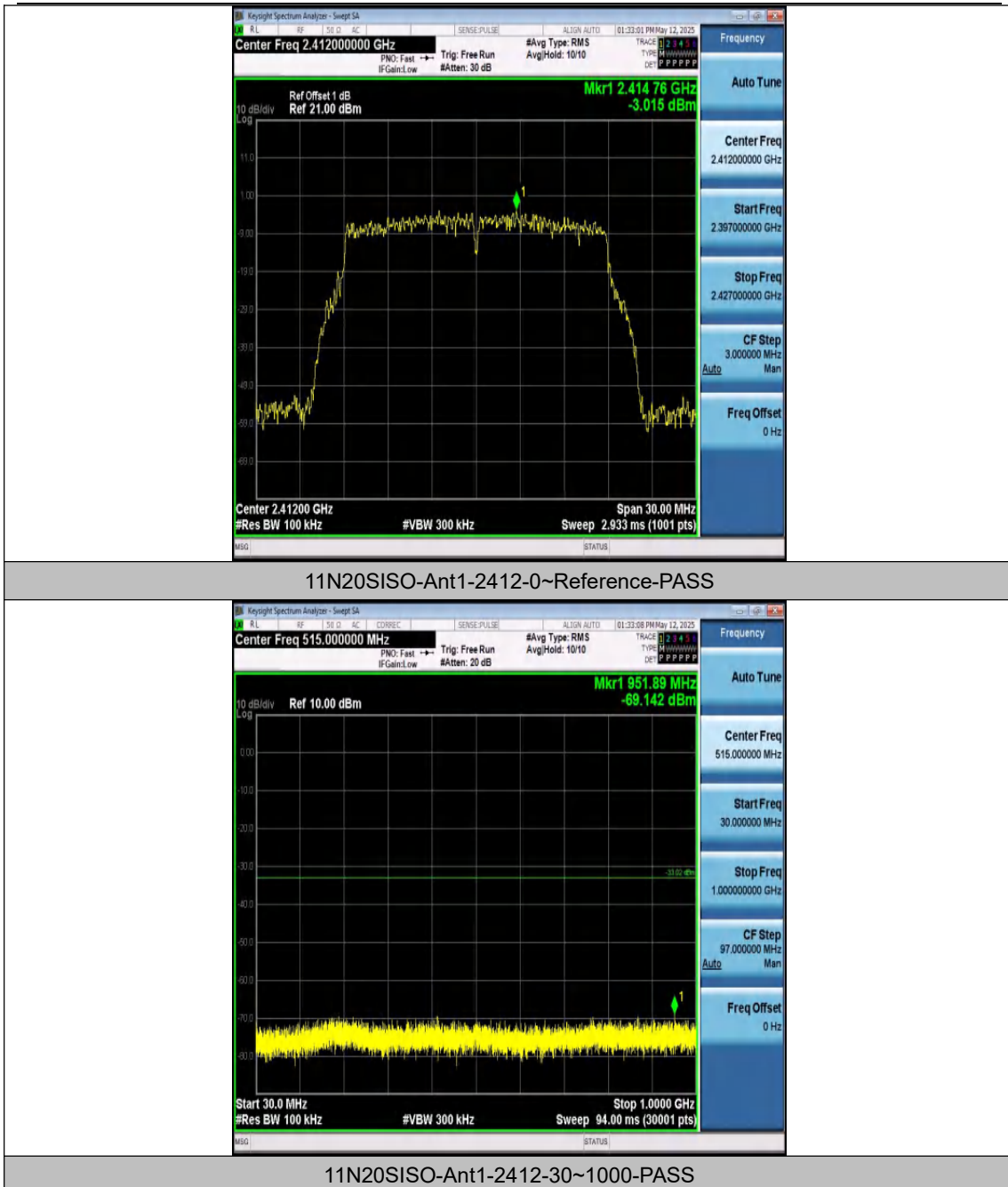
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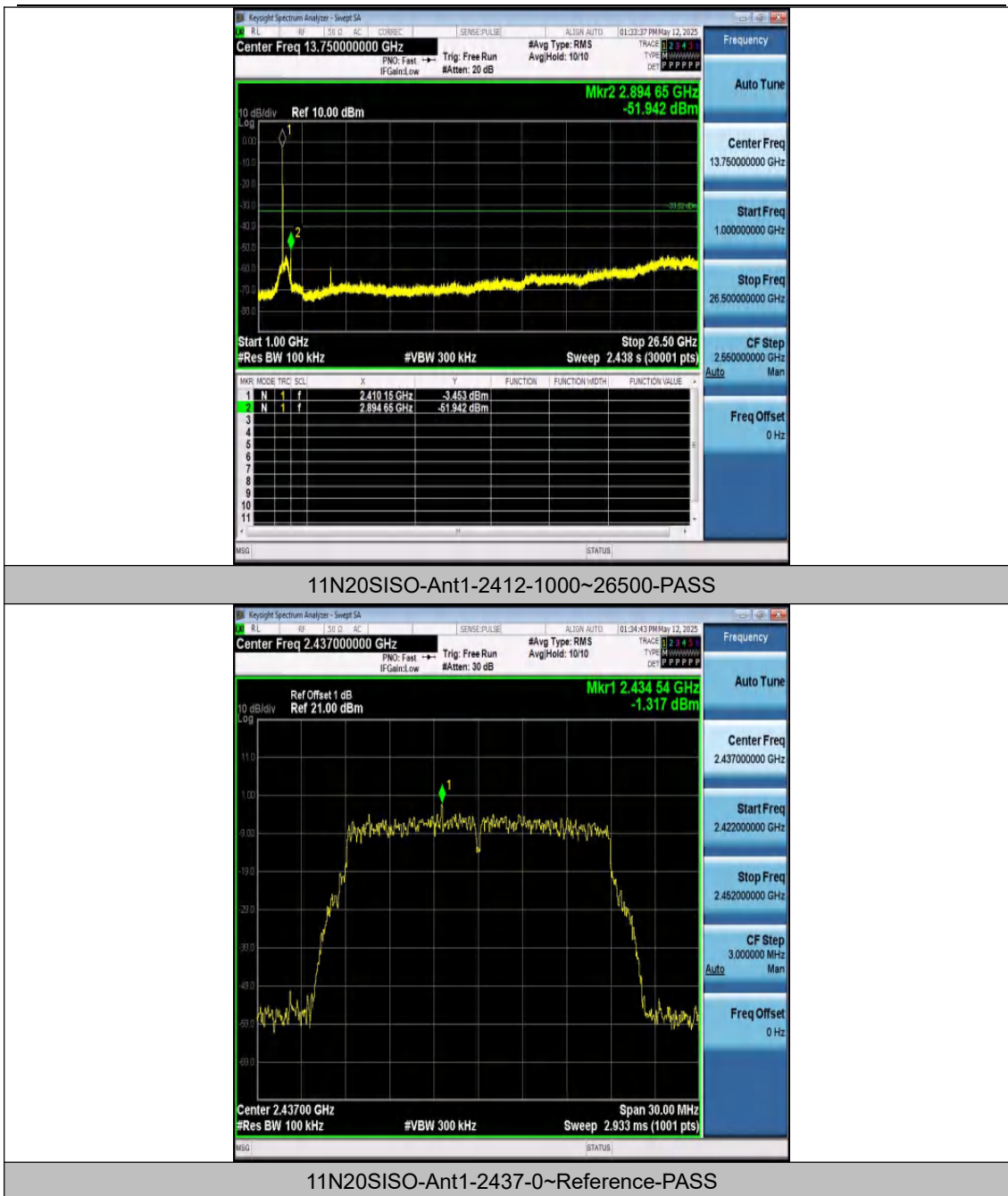








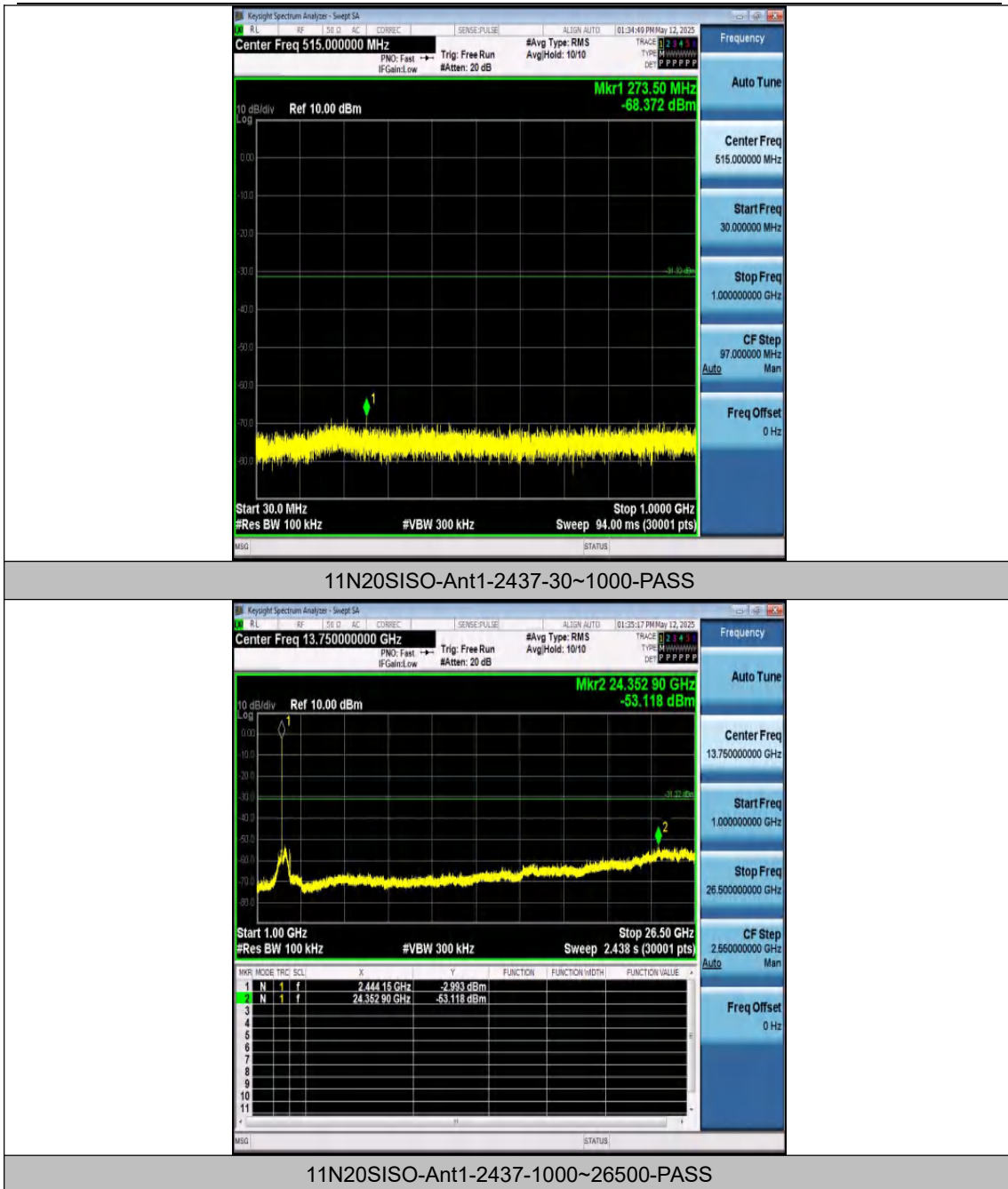


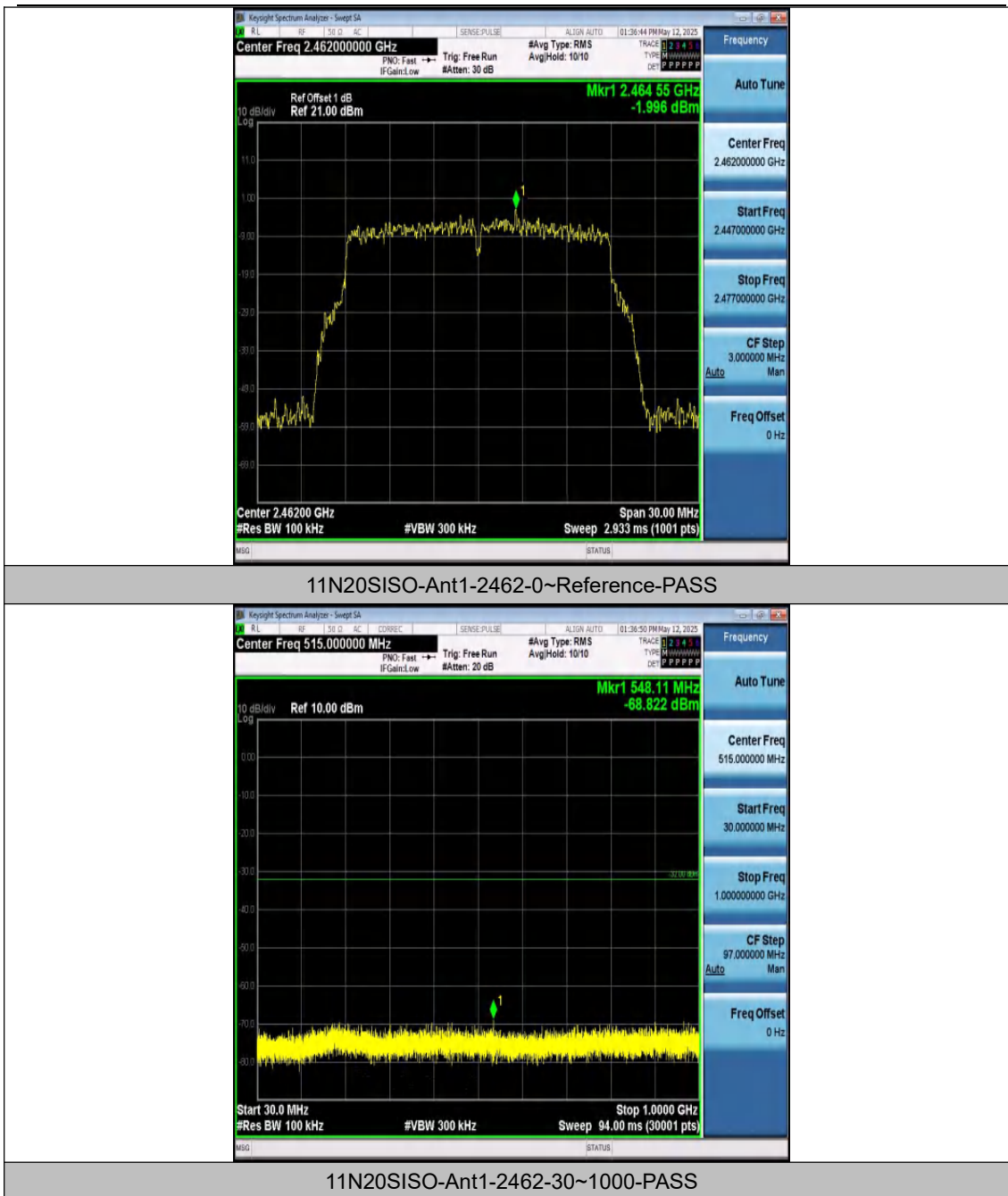


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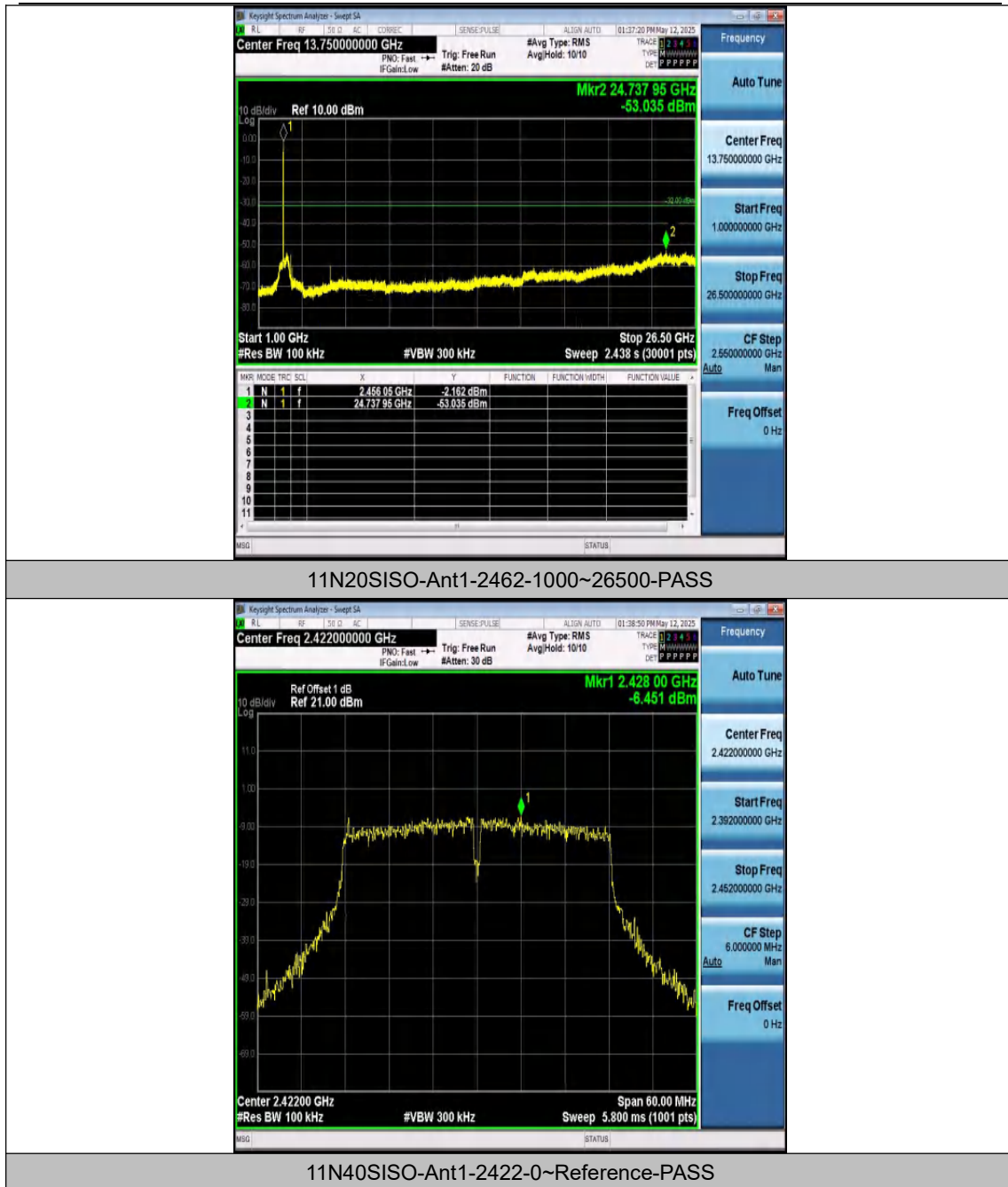




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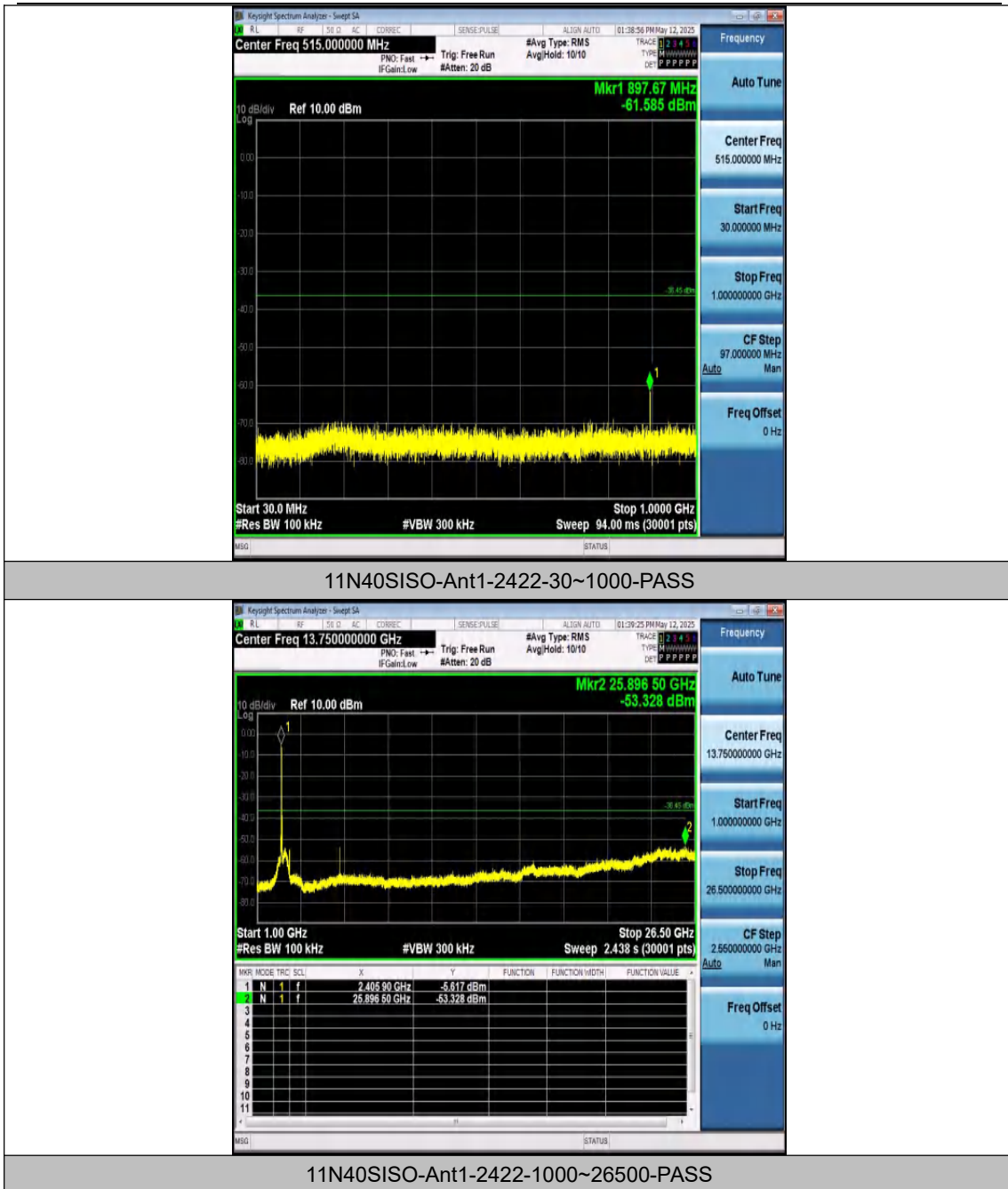
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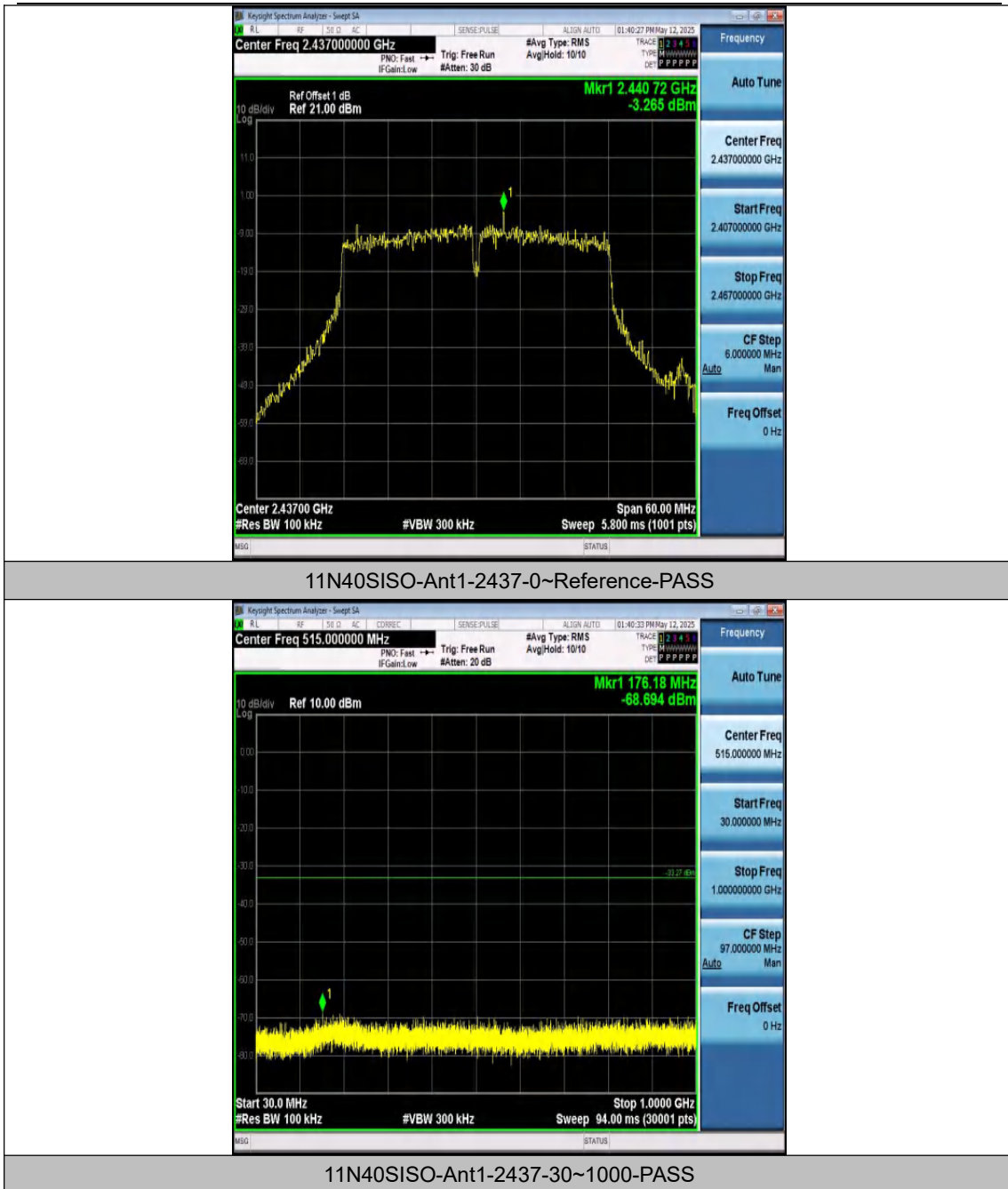


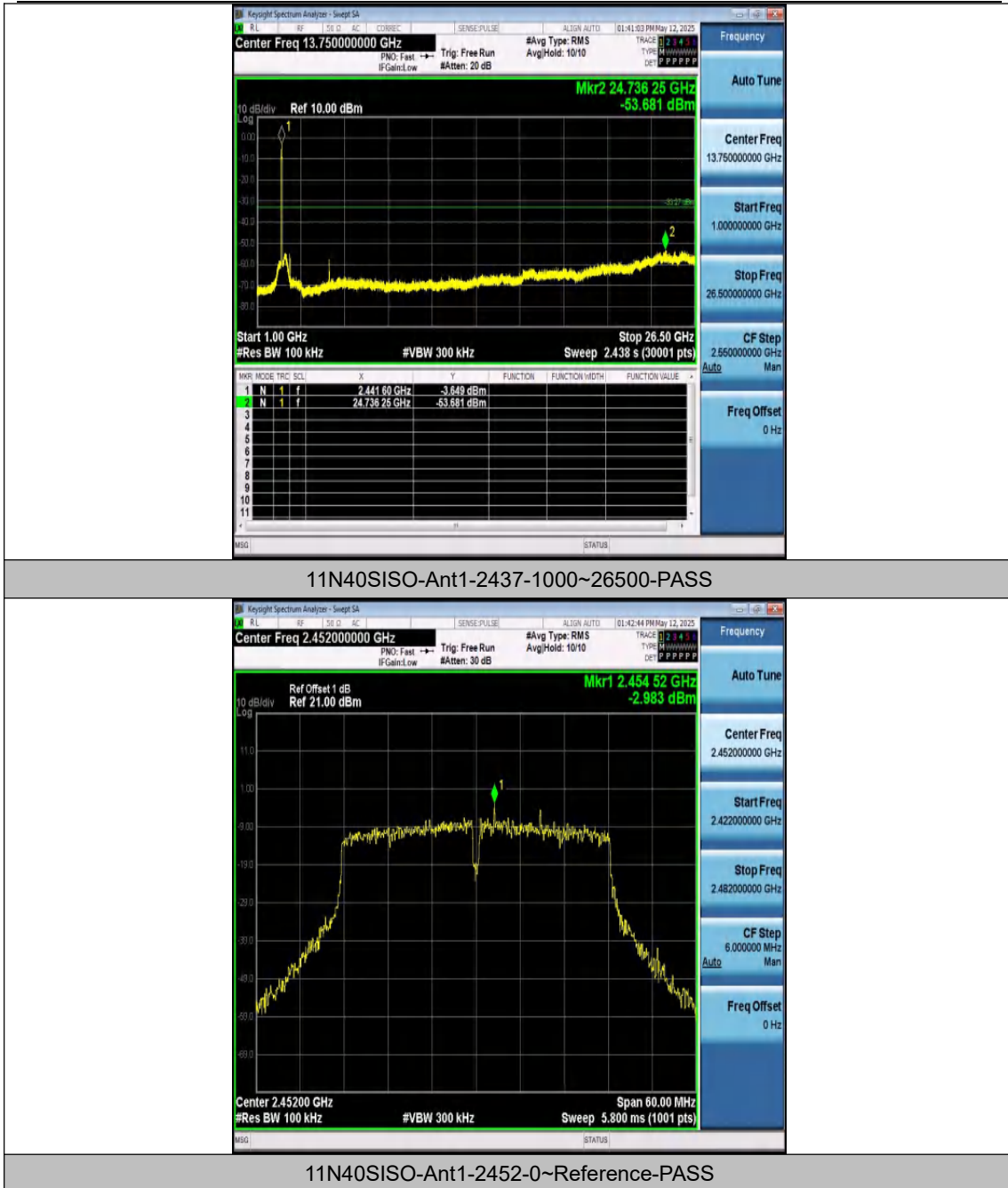
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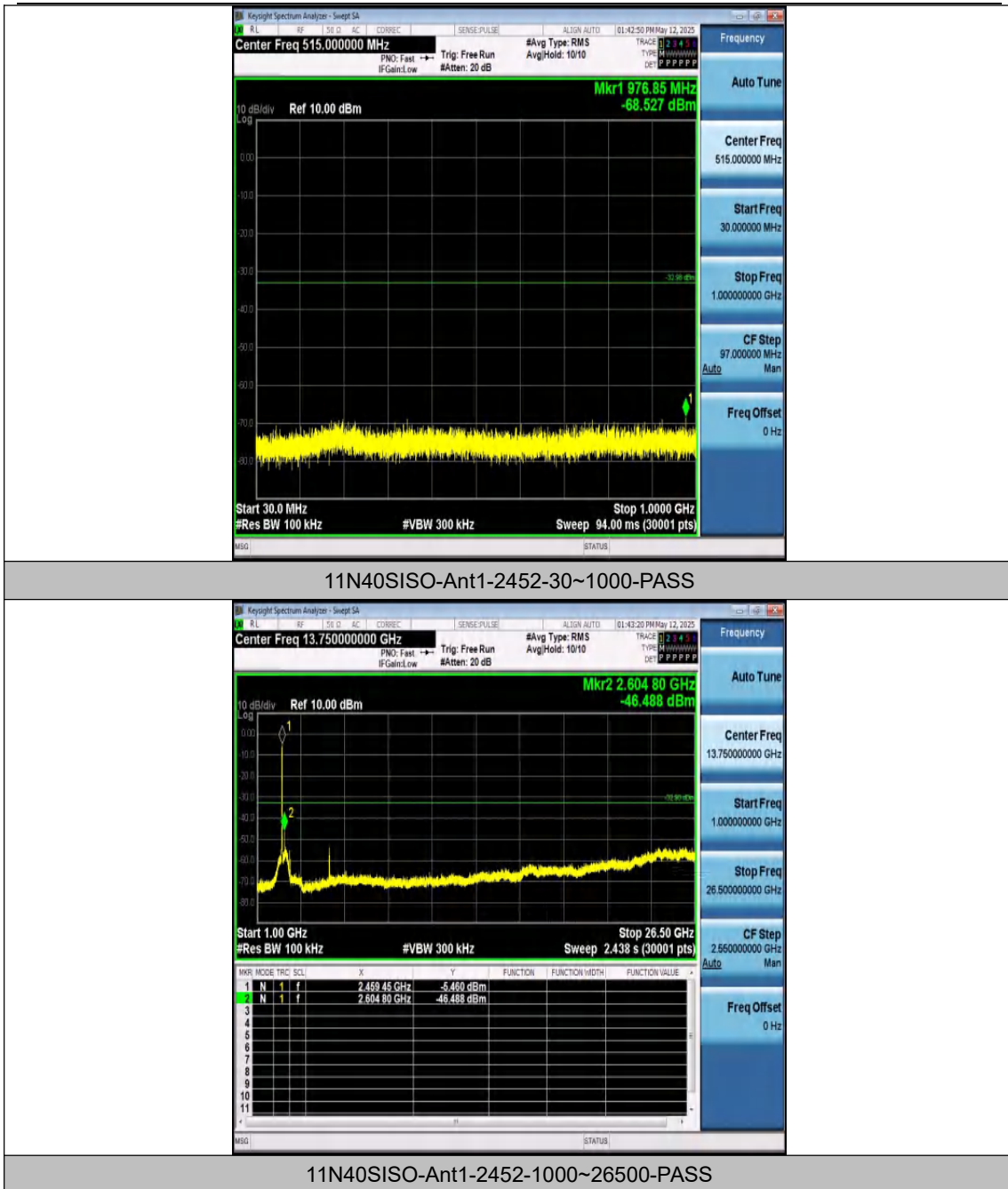
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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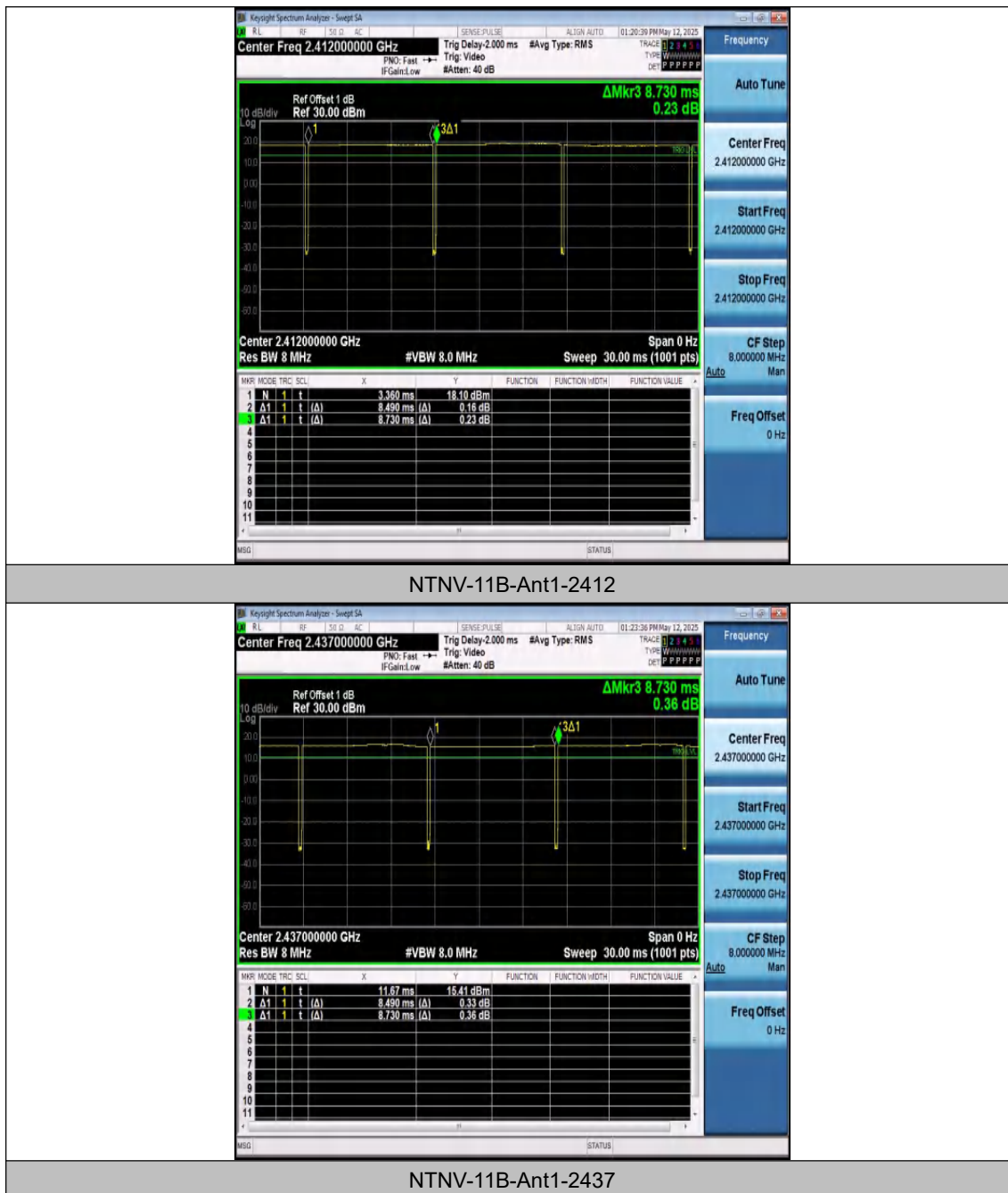
Appendix G: Duty Cycle

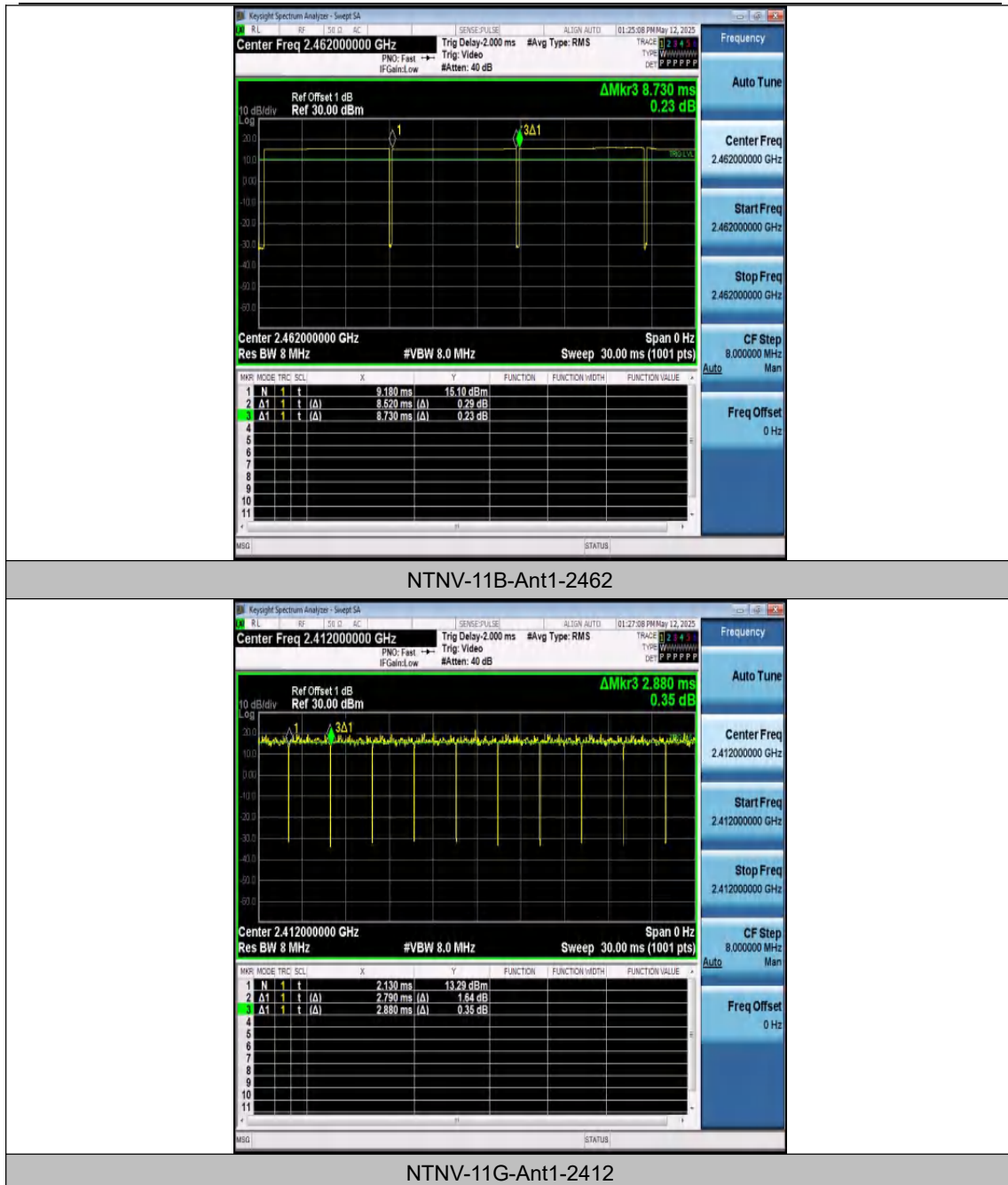
Test Result

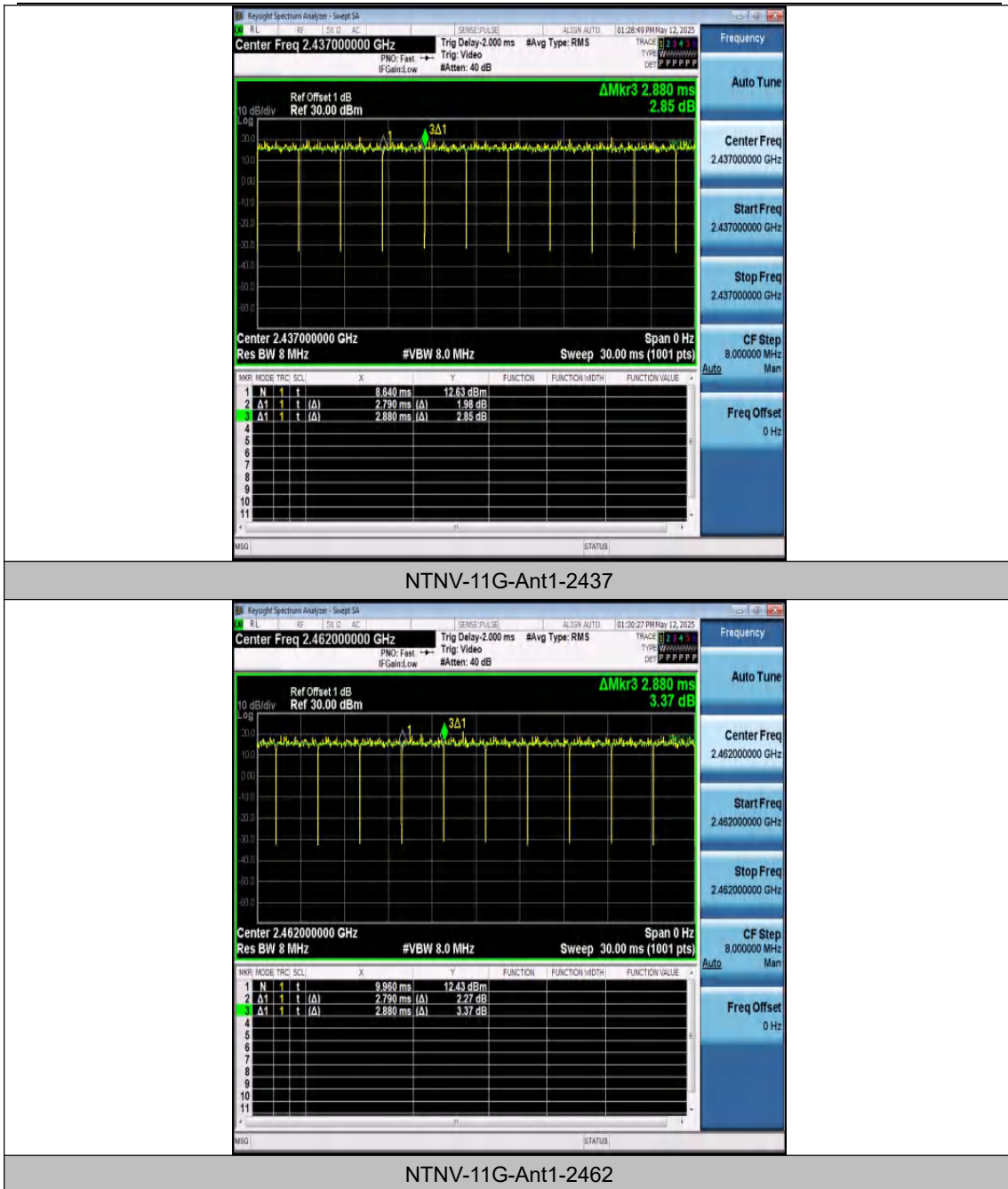
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.49	8.73	97.25	0.12
11B	Ant1	2437	8.49	8.73	97.25	0.12
11B	Ant1	2462	8.52	8.73	97.59	0.11
11G	Ant1	2412	2.79	2.88	96.88	0.14
11G	Ant1	2437	2.79	2.88	96.88	0.14
11G	Ant1	2462	2.79	2.88	96.88	0.14
11N20SISO	Ant1	2412	2.58	2.67	96.63	0.15
11N20SISO	Ant1	2437	2.58	2.67	96.63	0.15
11N20SISO	Ant1	2462	2.58	2.67	96.63	0.15
11N40SISO	Ant1	2422	1.26	1.35	93.33	0.30
11N40SISO	Ant1	2437	1.26	1.35	93.33	0.30
11N40SISO	Ant1	2452	1.26	2.01	62.69	2.03

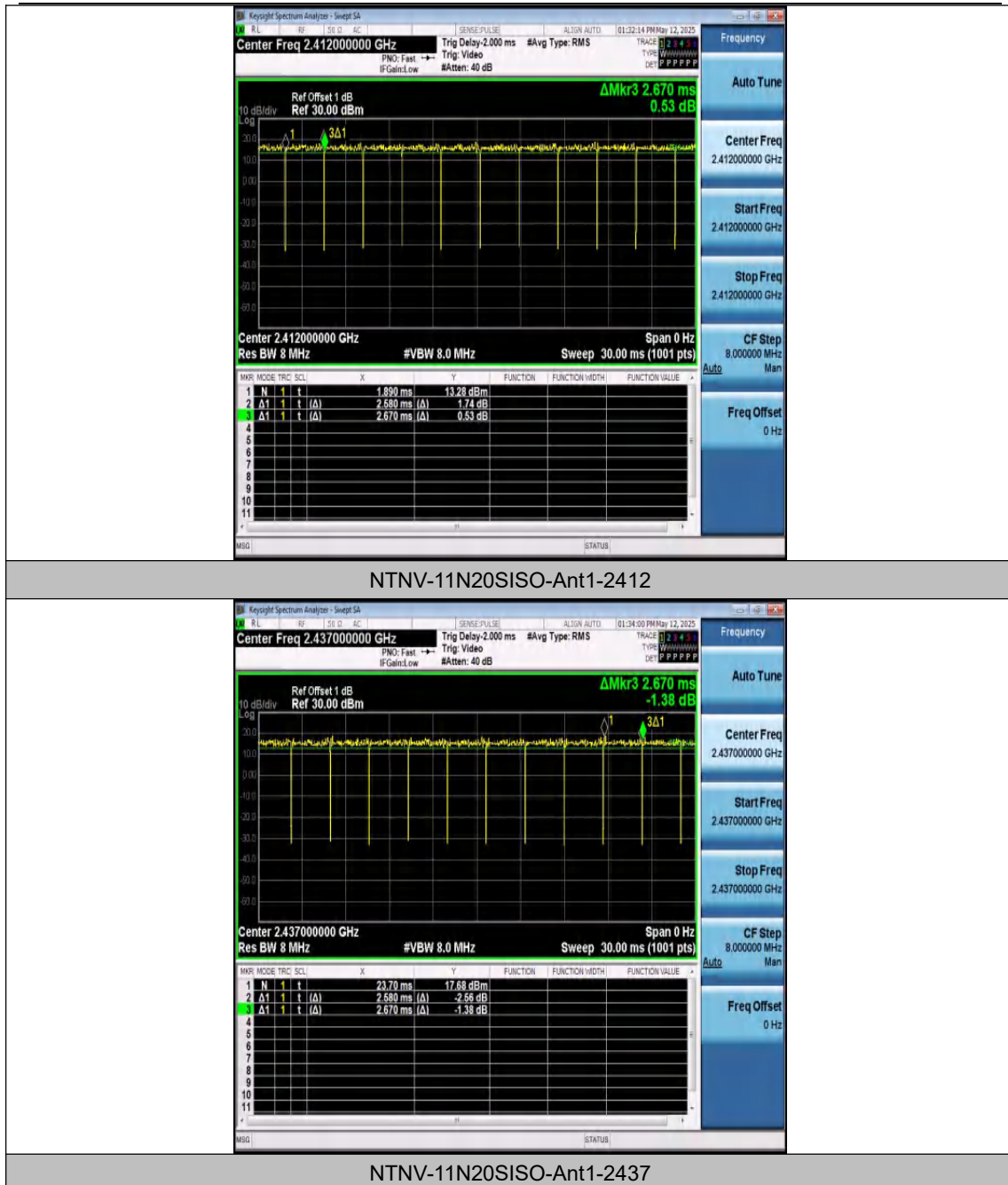


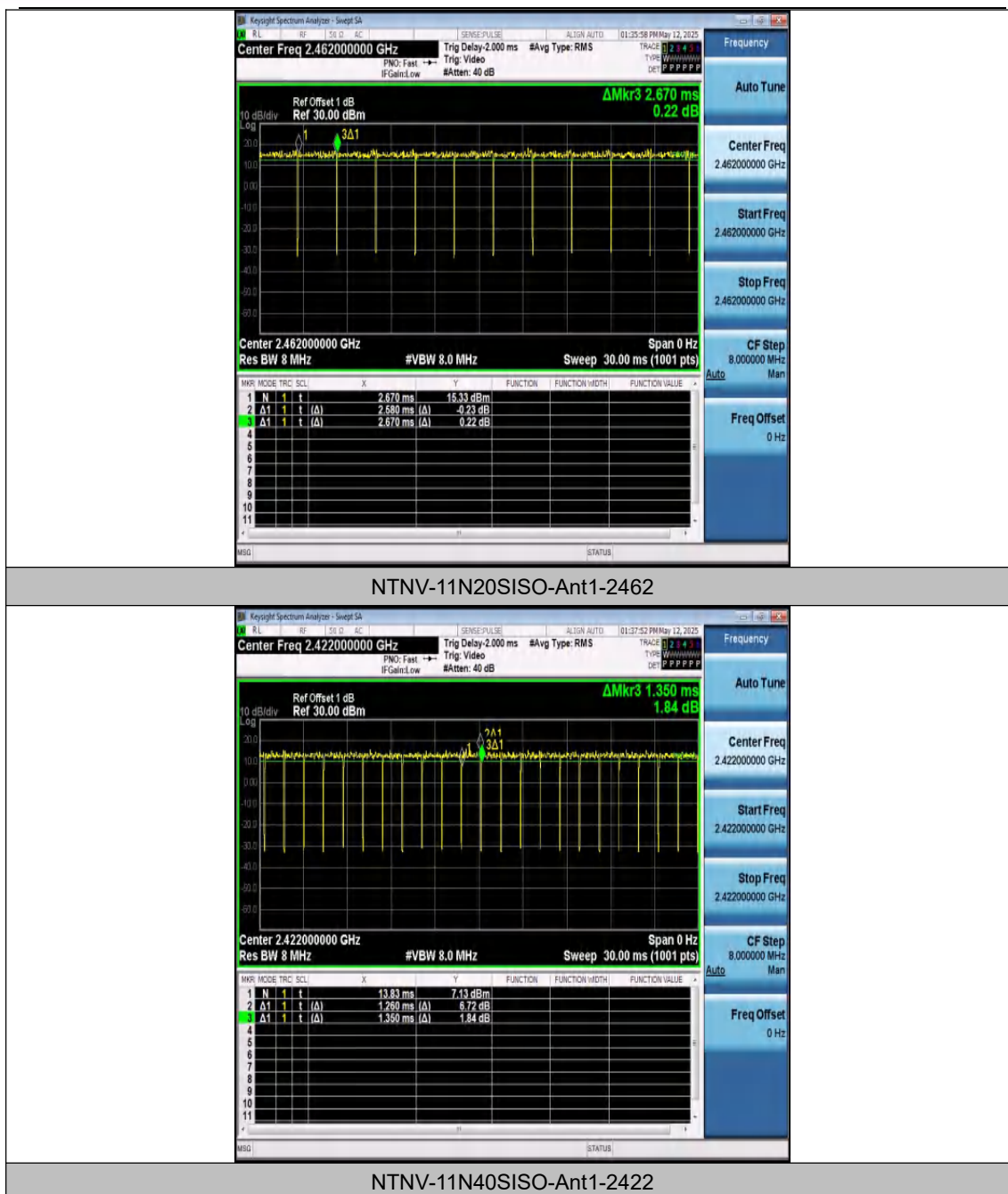
Test Graphs

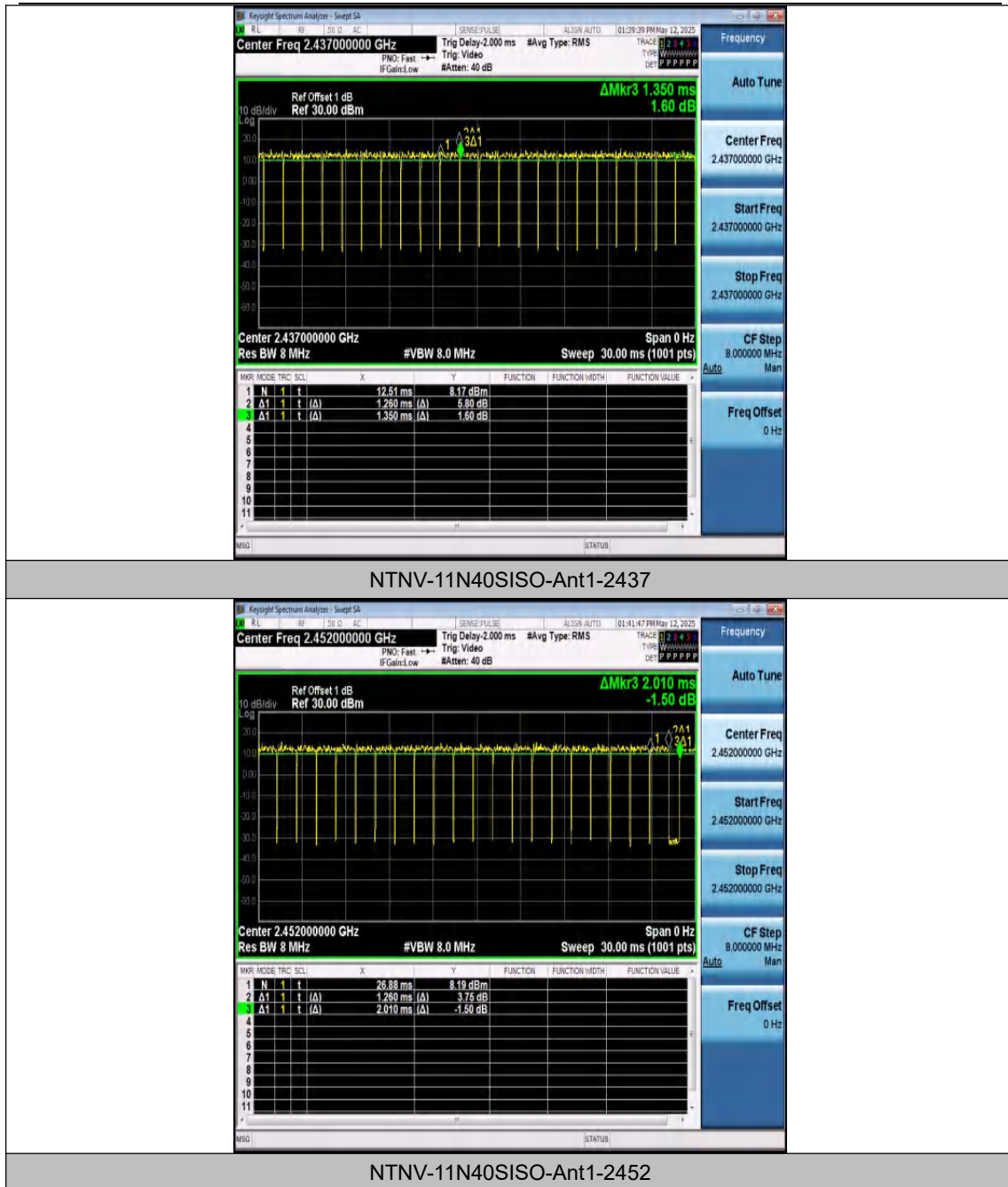












---End---