

Appendix Test Data

Report No.:	1812C50435512503	Test Sample No.:	1-2-2
Start Test Date:	2025-9-5	Finish Test Date:	2025-9-16
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.9°C	Relative Humidity:	54%
Pressure:	101kPa		

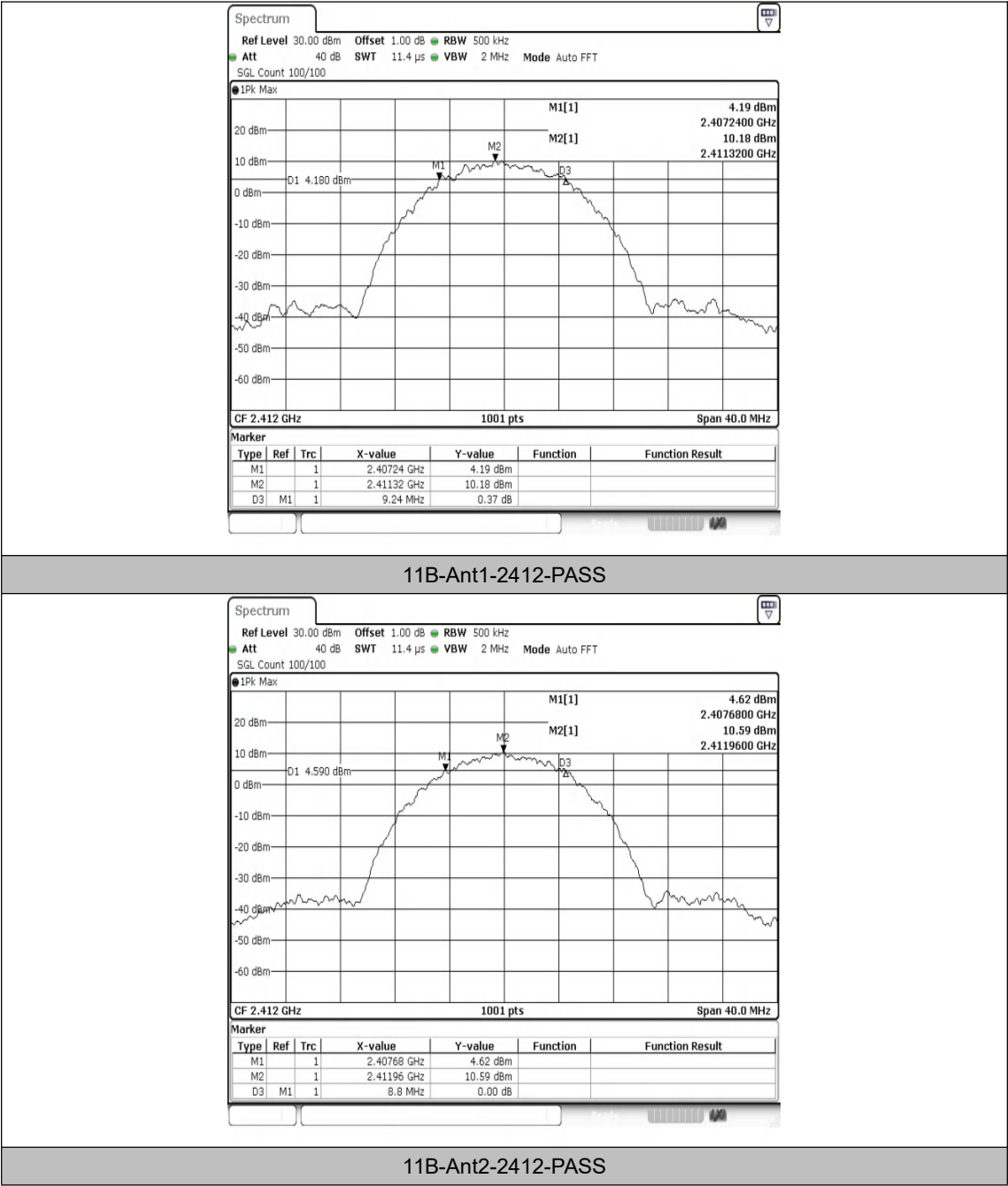
Appendix A: 6dB Bandwidth

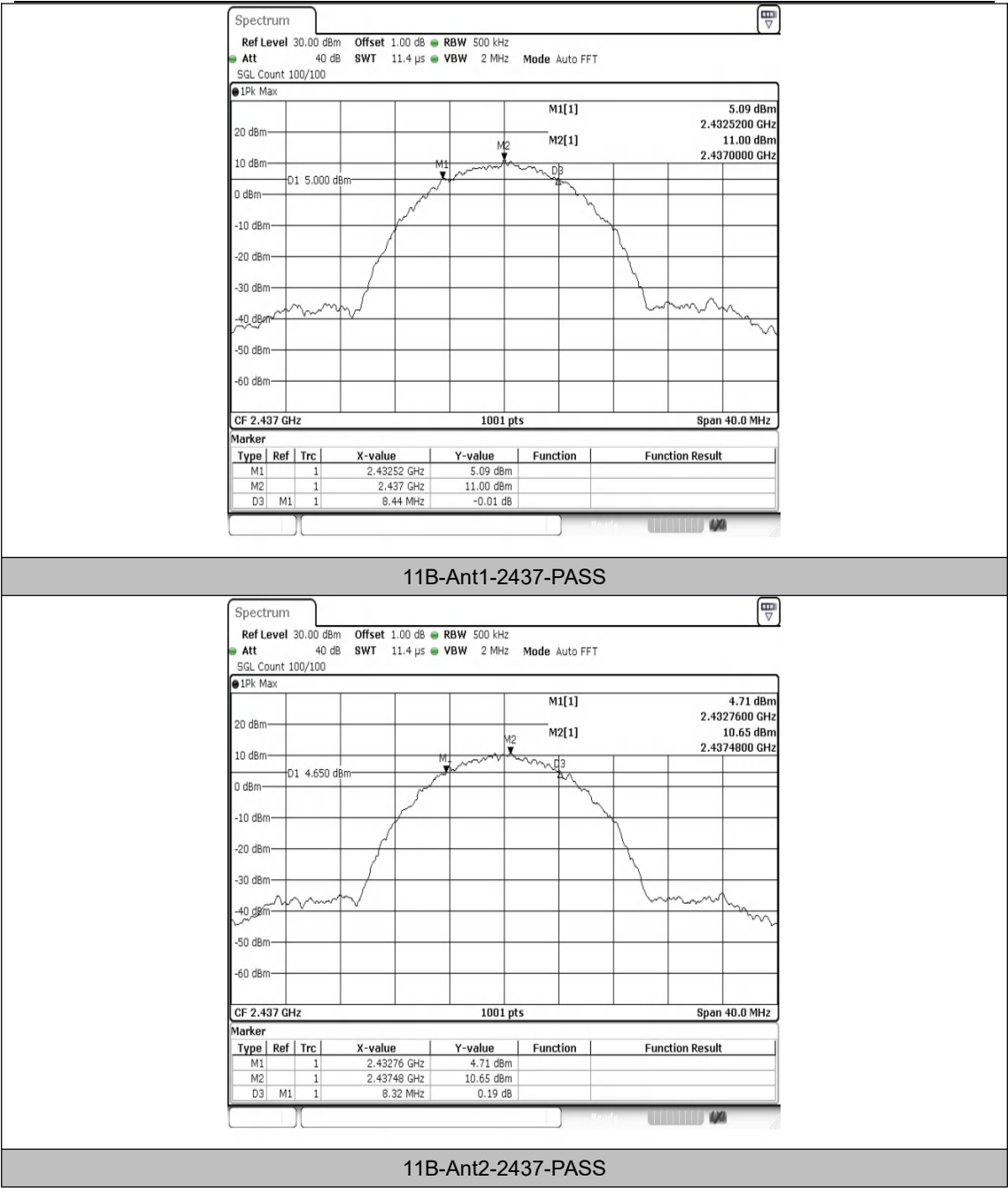
Test Result

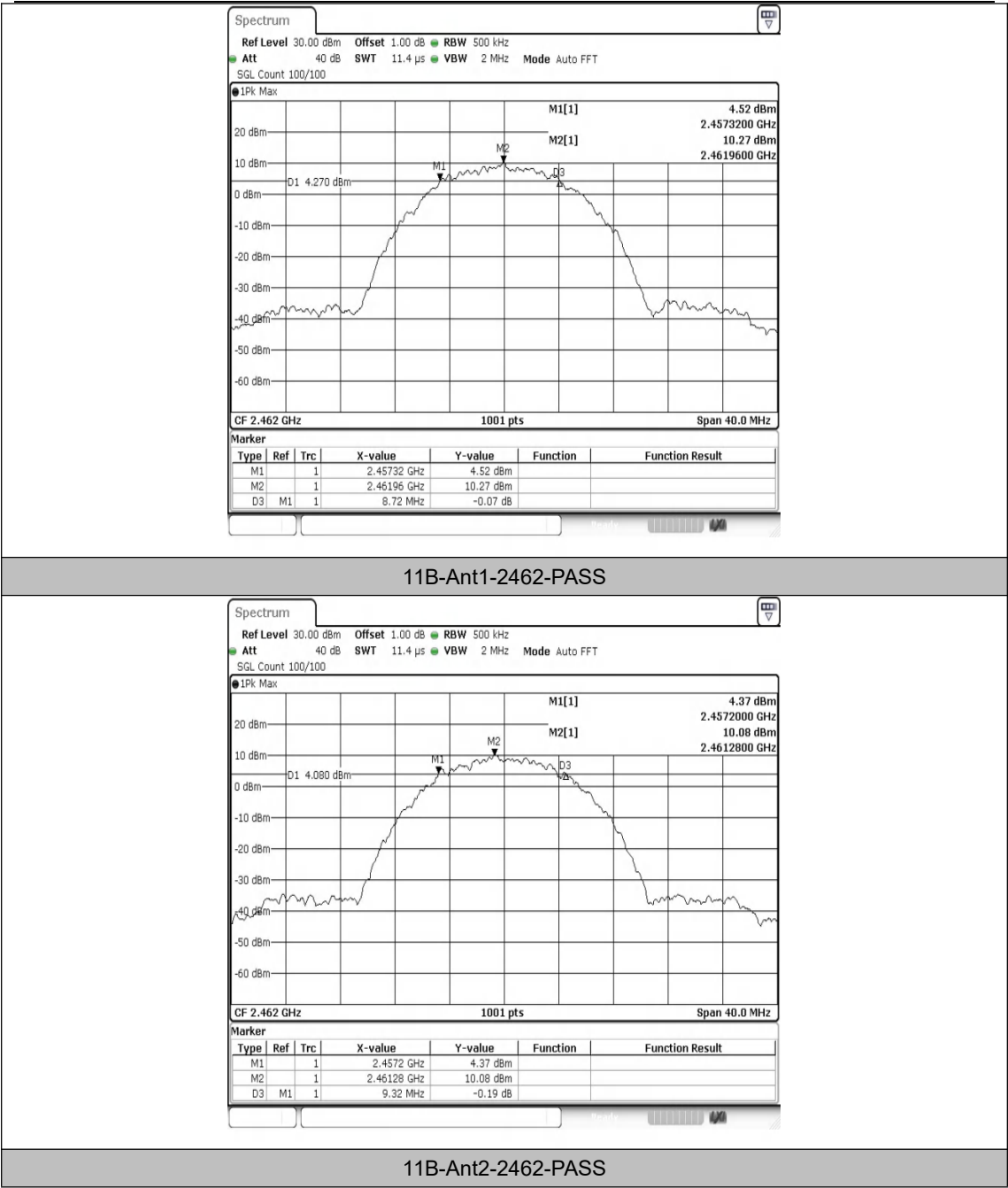
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.24	2407.24	2416.48	0.5	PASS
11B	Ant2	2412	8.80	2407.68	2416.48	0.5	PASS
11B	Ant1	2437	8.44	2432.52	2440.96	0.5	PASS
11B	Ant2	2437	8.32	2432.76	2441.08	0.5	PASS
11B	Ant1	2462	8.72	2457.32	2466.04	0.5	PASS
11B	Ant2	2462	9.32	2457.20	2466.52	0.5	PASS
11G	Ant1	2412	16.00	2404.00	2420.00	0.5	PASS
11G	Ant2	2412	15.60	2404.36	2419.96	0.5	PASS
11G	Ant1	2437	15.84	2429.08	2444.92	0.5	PASS
11G	Ant2	2437	15.76	2429.28	2445.04	0.5	PASS
11G	Ant1	2462	15.84	2454.04	2469.88	0.5	PASS
11G	Ant2	2462	16.08	2453.88	2469.96	0.5	PASS
11N20MIMO	Ant1	2412	17.44	2403.32	2420.76	0.5	PASS
11N20MIMO	Ant2	2412	17.12	2403.48	2420.60	0.5	PASS
11N20MIMO	Ant1	2437	17.08	2428.44	2445.52	0.5	PASS
11N20MIMO	Ant2	2437	16.88	2428.76	2445.64	0.5	PASS
11N20MIMO	Ant1	2462	17.08	2453.44	2470.52	0.5	PASS
11N20MIMO	Ant2	2462	16.96	2453.68	2470.64	0.5	PASS
11N40MIMO	Ant1	2422	32.32	2407.04	2439.36	0.5	PASS
11N40MIMO	Ant2	2422	35.12	2404.16	2439.28	0.5	PASS
11N40MIMO	Ant1	2437	35.76	2419.16	2454.92	0.5	PASS
11N40MIMO	Ant2	2437	35.84	2419.00	2454.84	0.5	PASS
11N40MIMO	Ant1	2452	34.88	2434.40	2469.28	0.5	PASS
11N40MIMO	Ant2	2452	34.32	2434.32	2468.64	0.5	PASS
11AX20MIMO	Ant1	2412	16.48	2403.16	2419.64	0.5	PASS

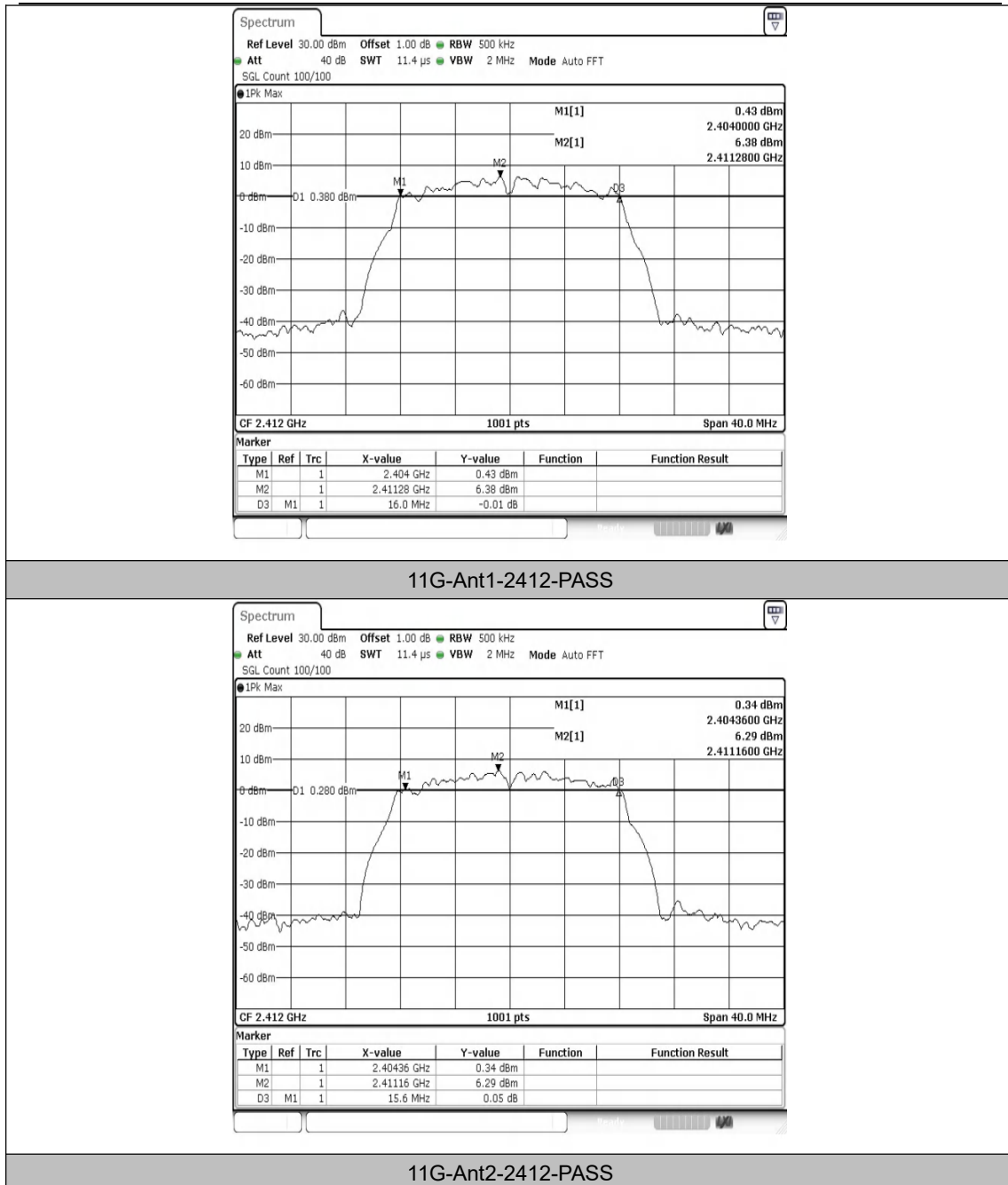
11AX20MIMO	Ant2	2412	16.52	2403.20	2419.72	0.5	PASS
11AX20MIMO	Ant1	2437	15.84	2429.00	2444.84	0.5	PASS
11AX20MIMO	Ant2	2437	17.52	2428.20	2445.72	0.5	PASS
11AX20MIMO	Ant1	2462	17.52	2453.28	2470.80	0.5	PASS
11AX20MIMO	Ant2	2462	17.28	2453.32	2470.60	0.5	PASS
11AX40MIMO	Ant1	2422	35.52	2404.32	2439.84	0.5	PASS
11AX40MIMO	Ant2	2422	36.16	2403.84	2440.00	0.5	PASS
11AX40MIMO	Ant1	2437	35.60	2419.08	2454.68	0.5	PASS
11AX40MIMO	Ant2	2437	34.72	2419.80	2454.52	0.5	PASS
11AX40MIMO	Ant1	2452	35.68	2434.08	2469.76	0.5	PASS
11AX40MIMO	Ant2	2452	36.08	2434.00	2470.08	0.5	PASS

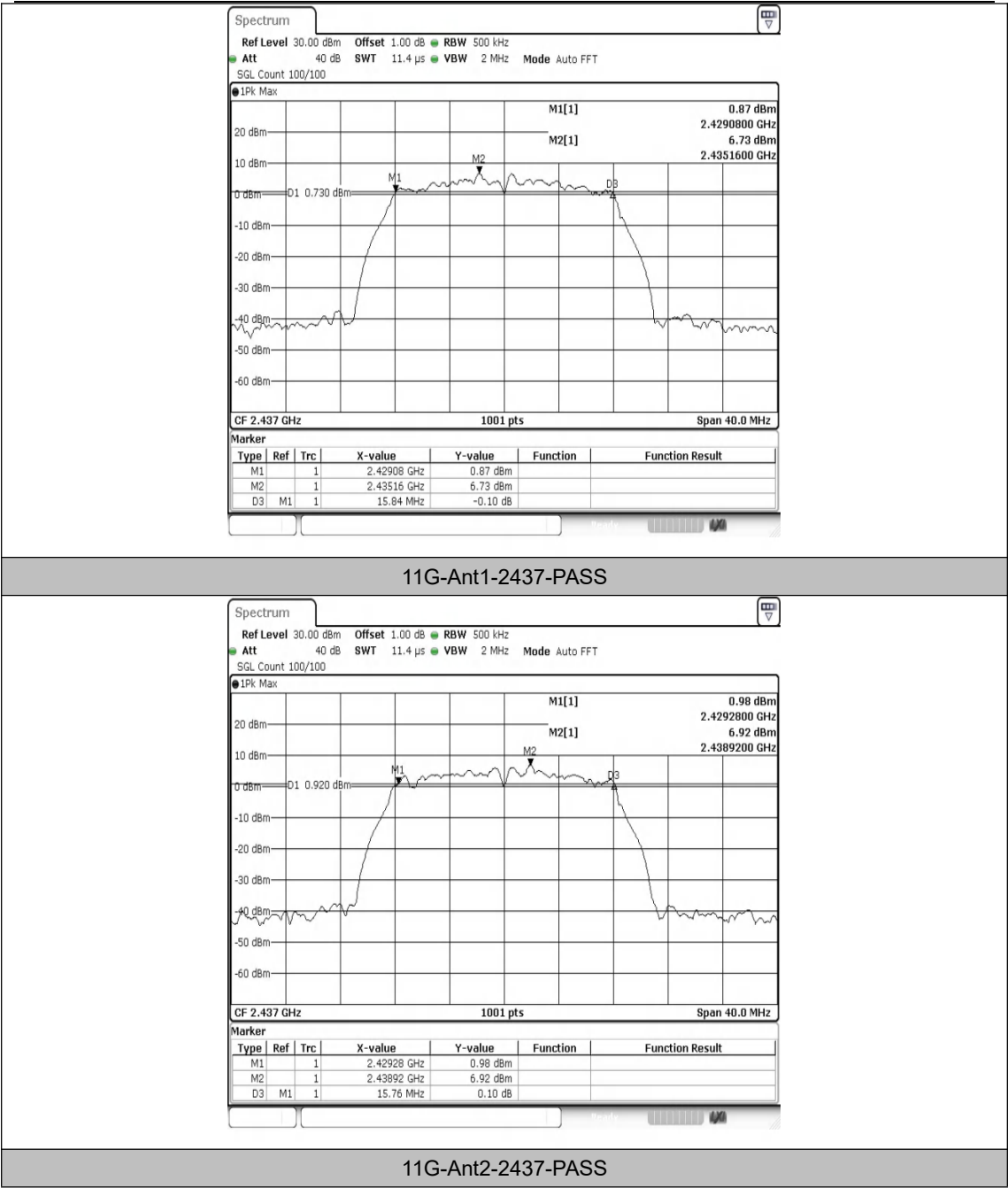
Test Graphs

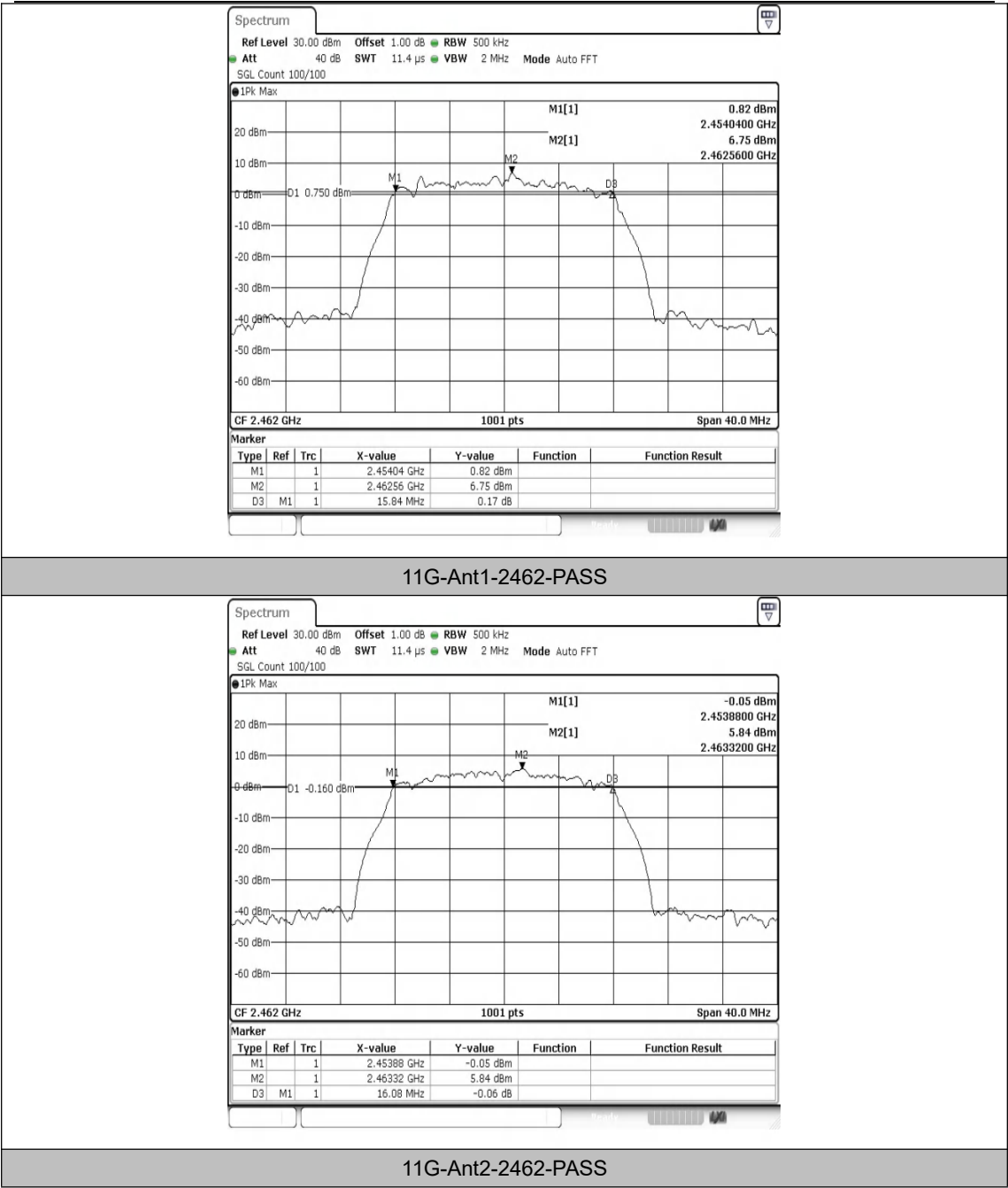


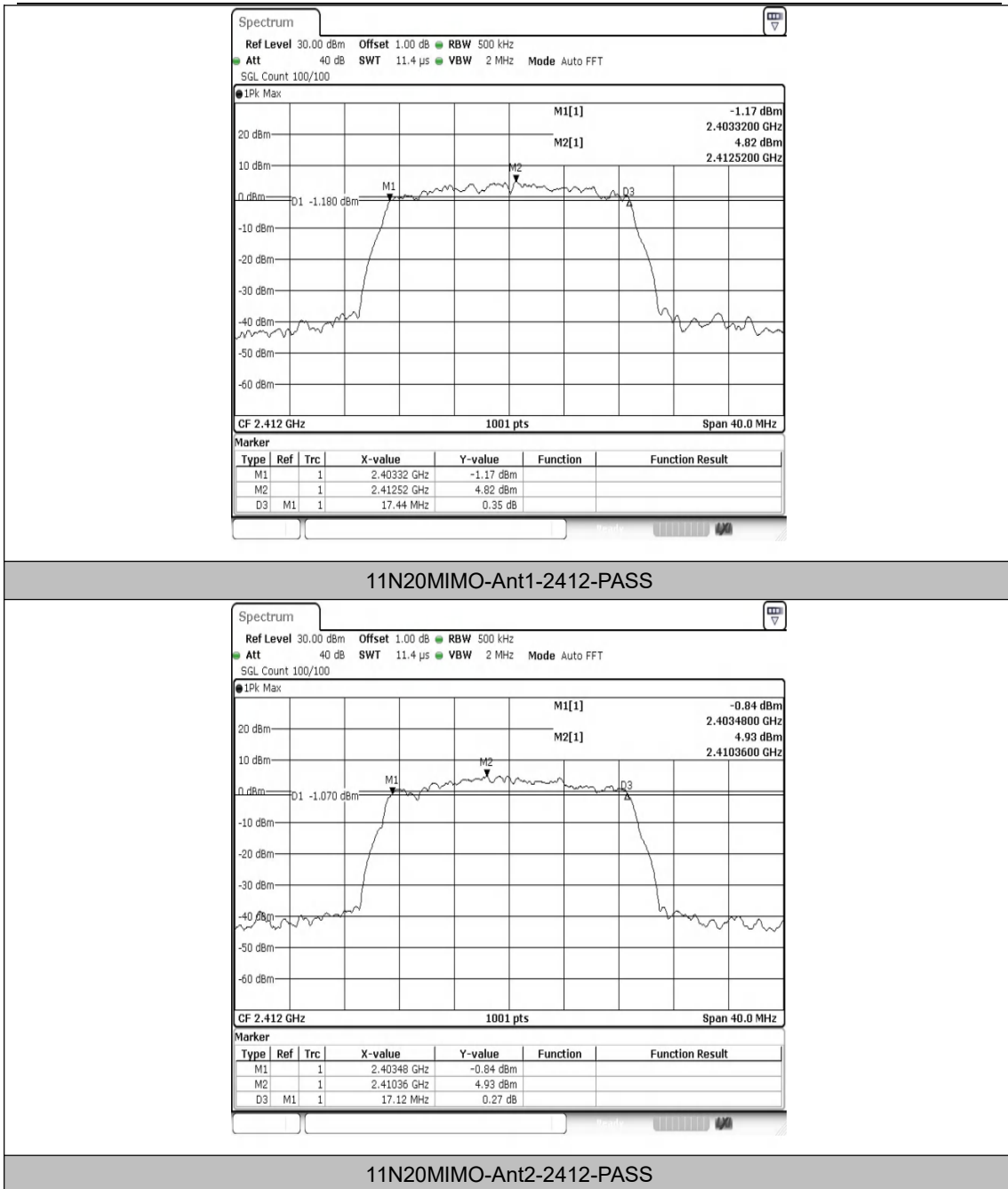


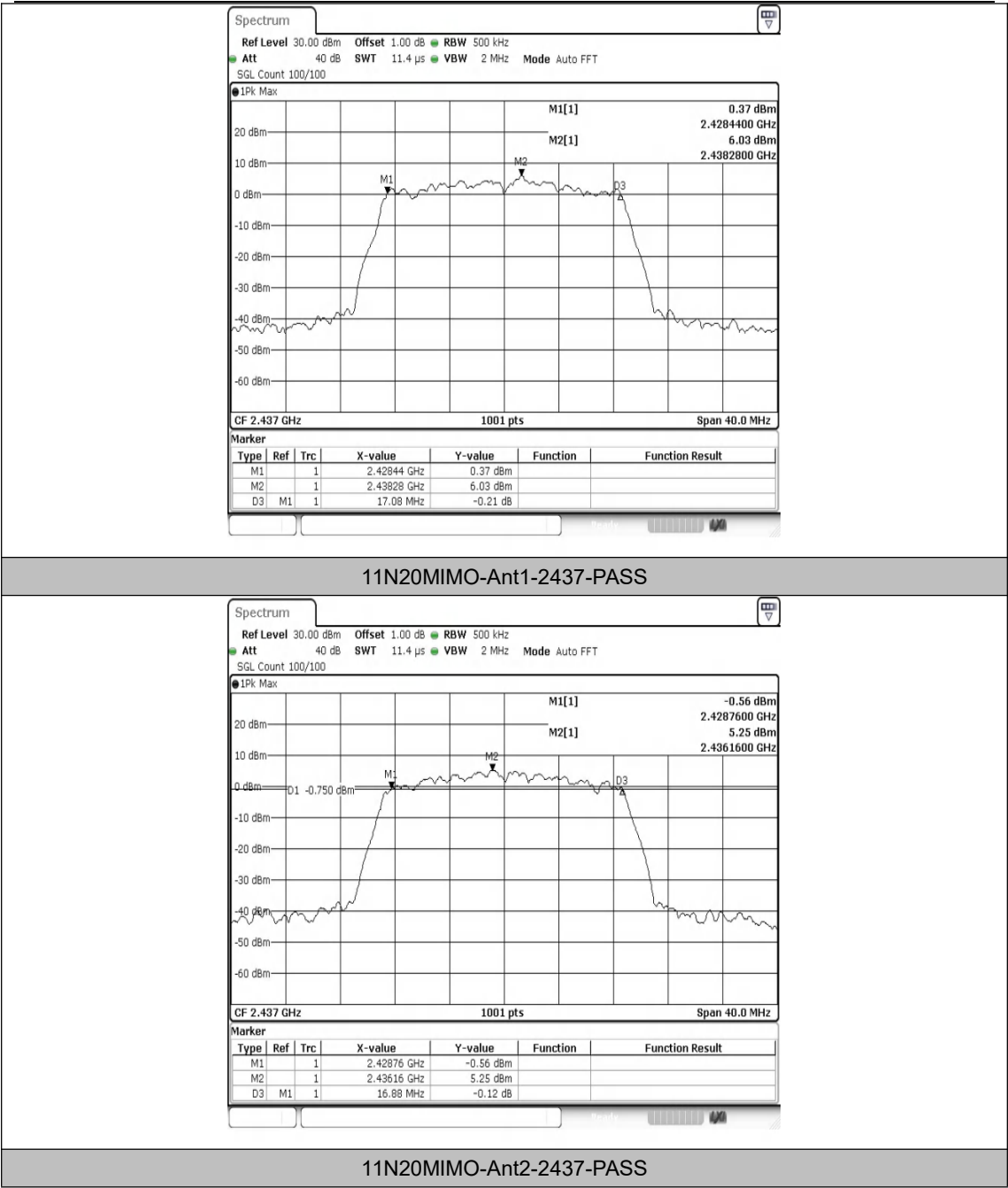


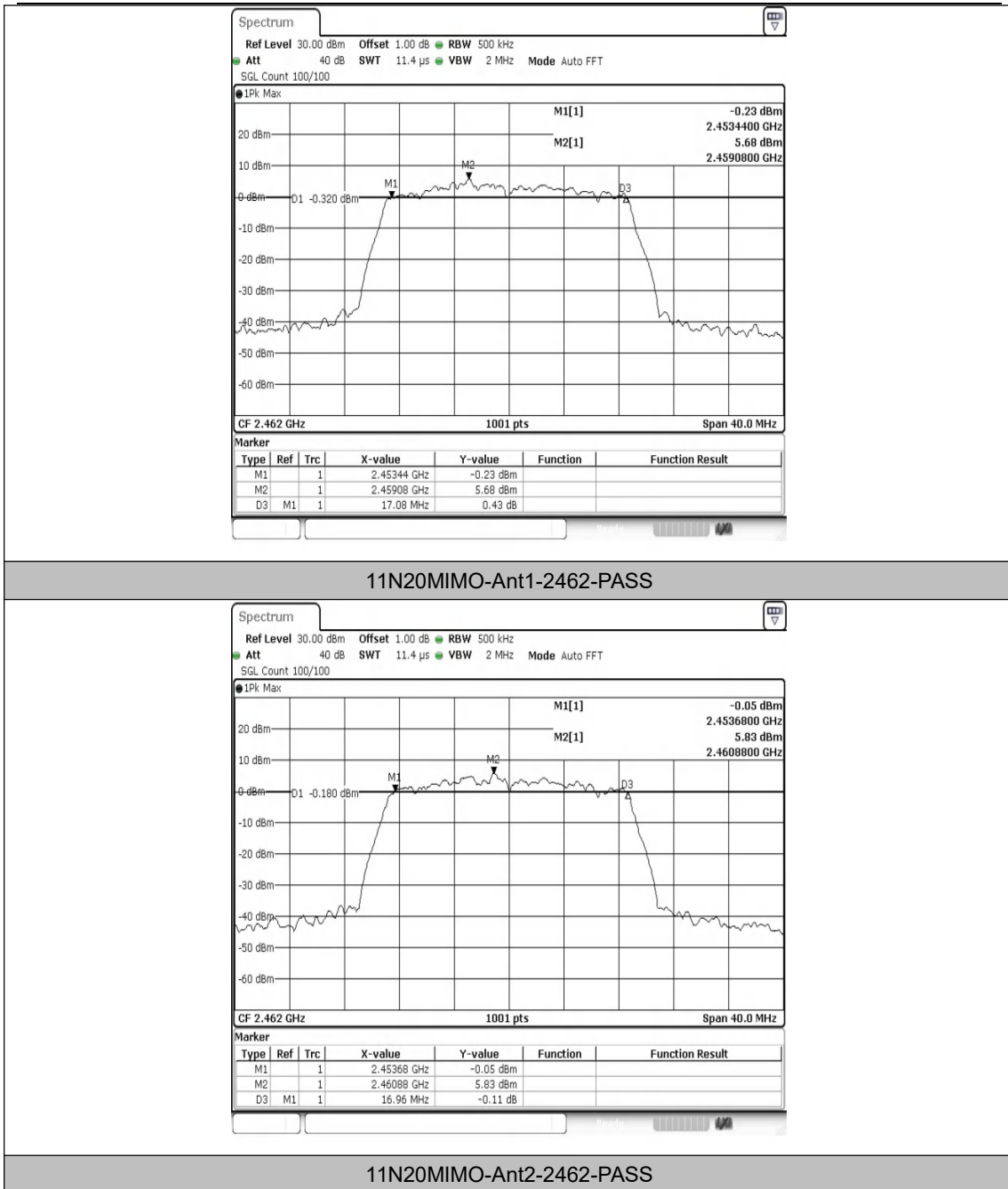








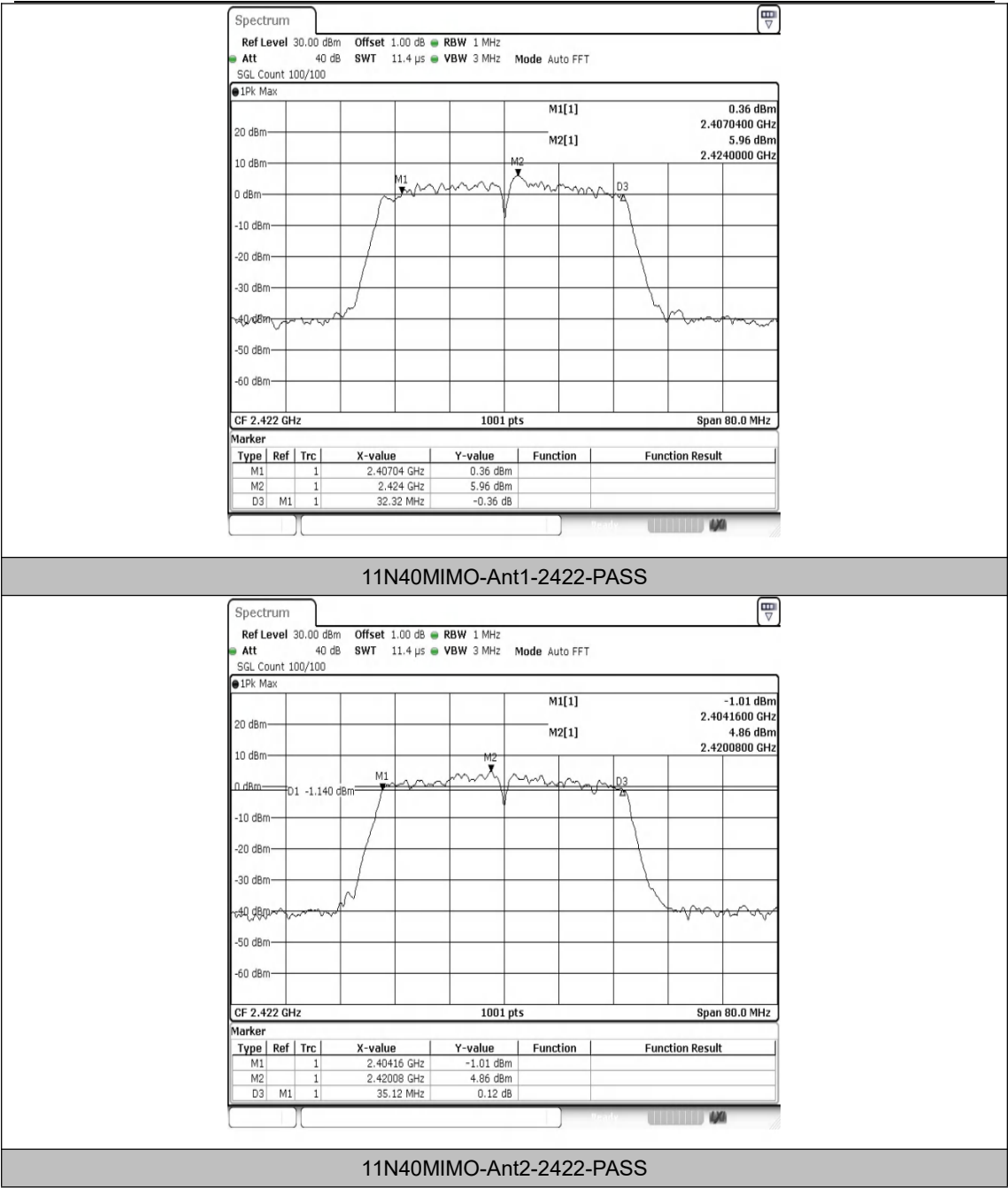


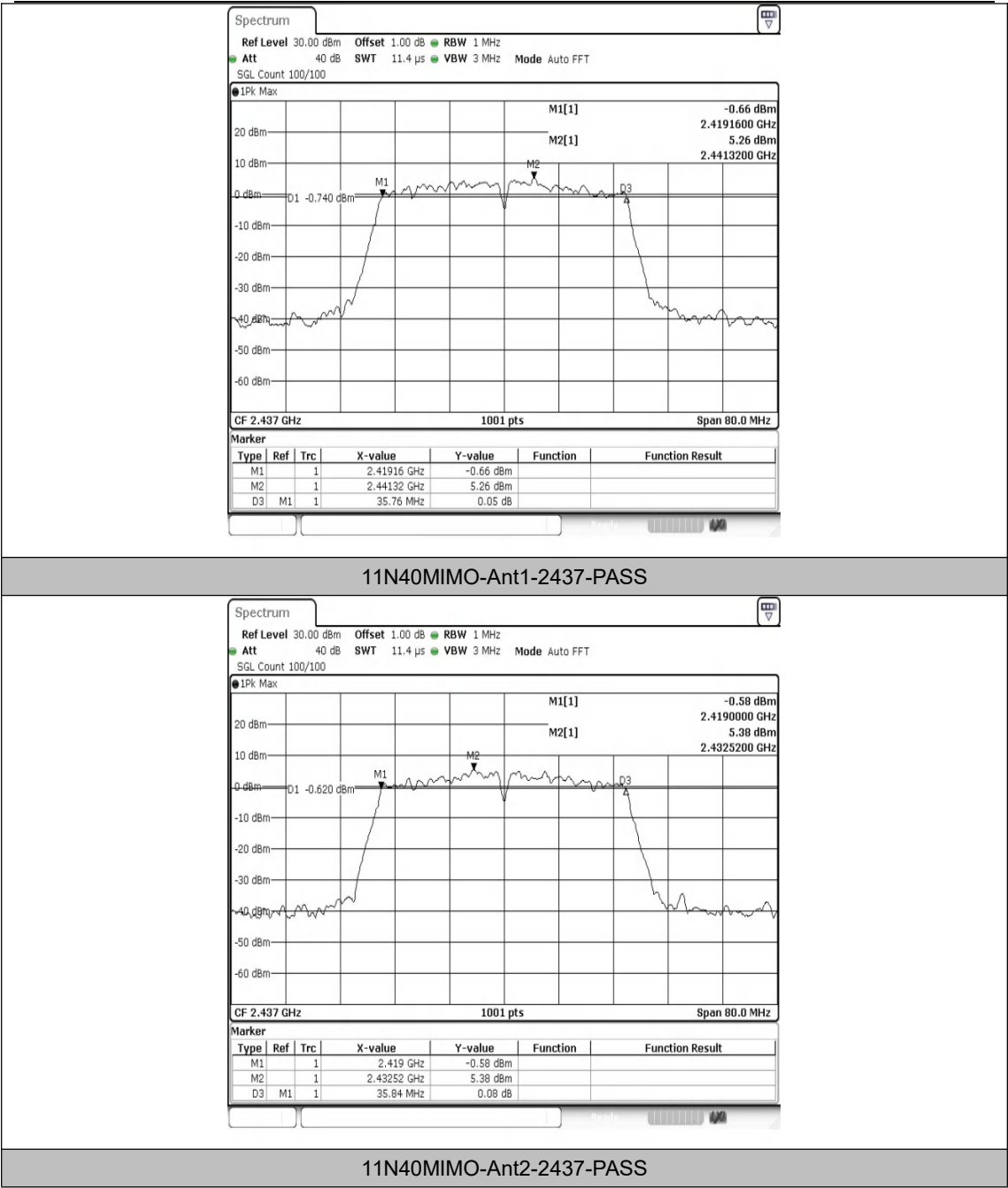


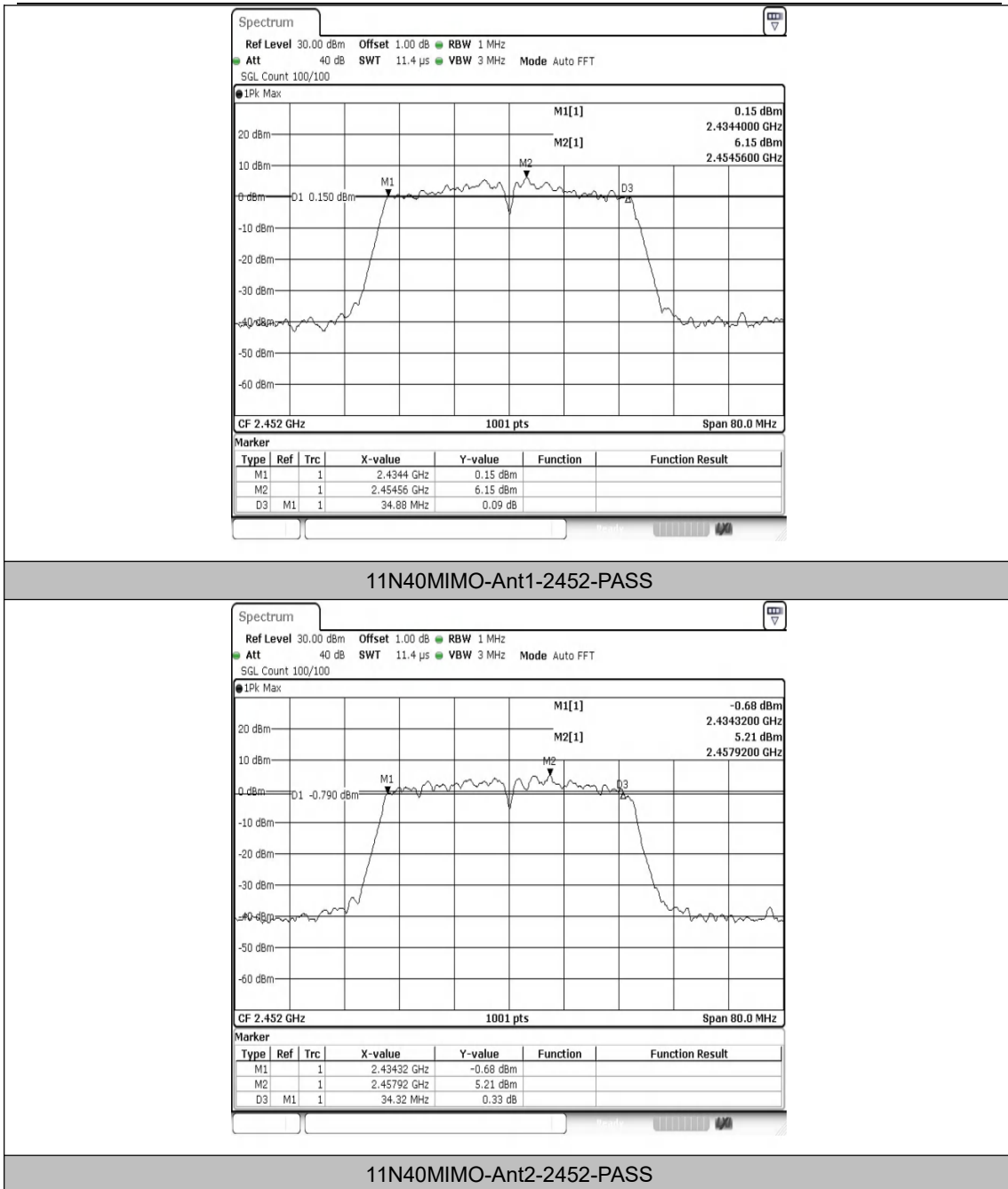
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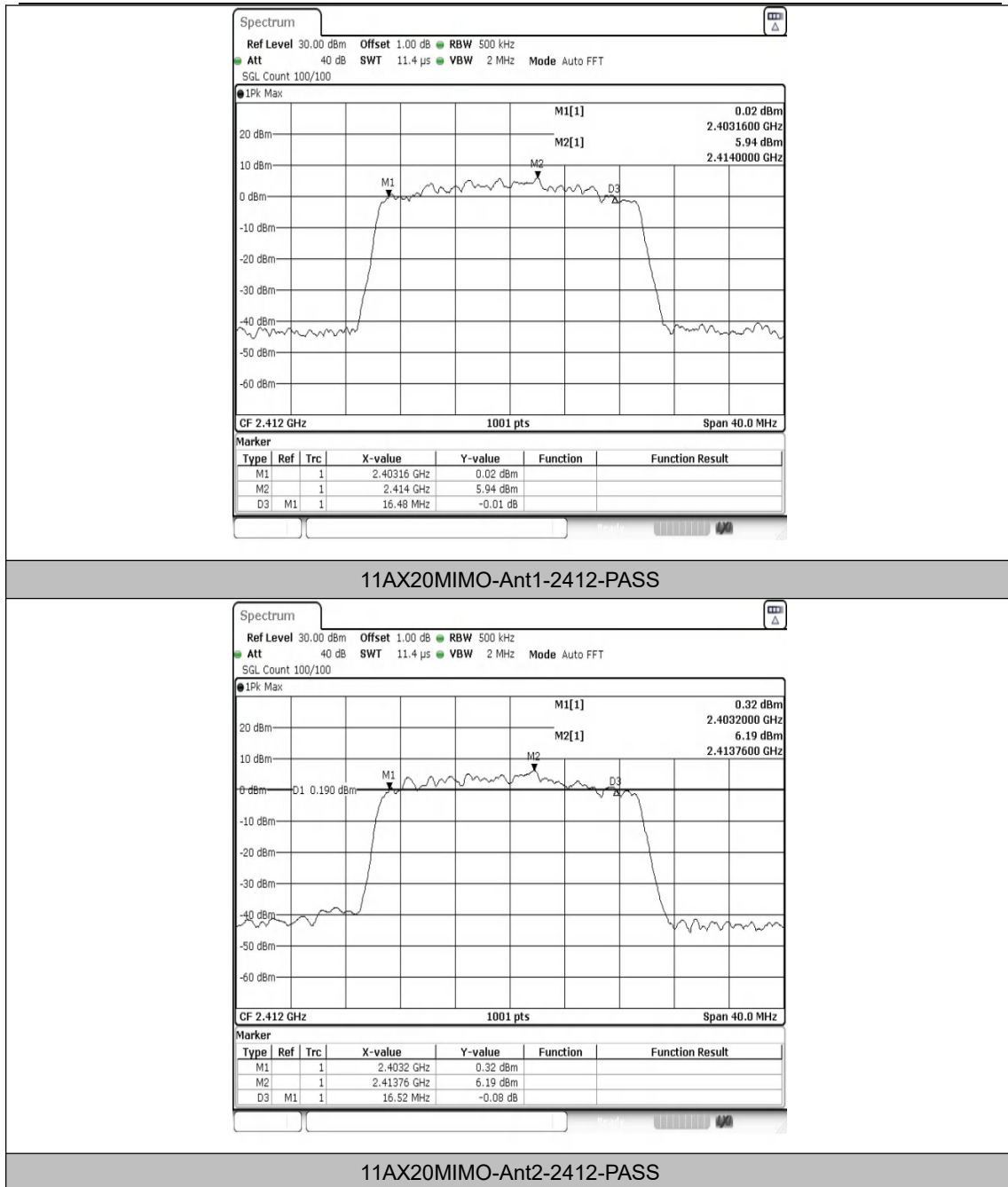
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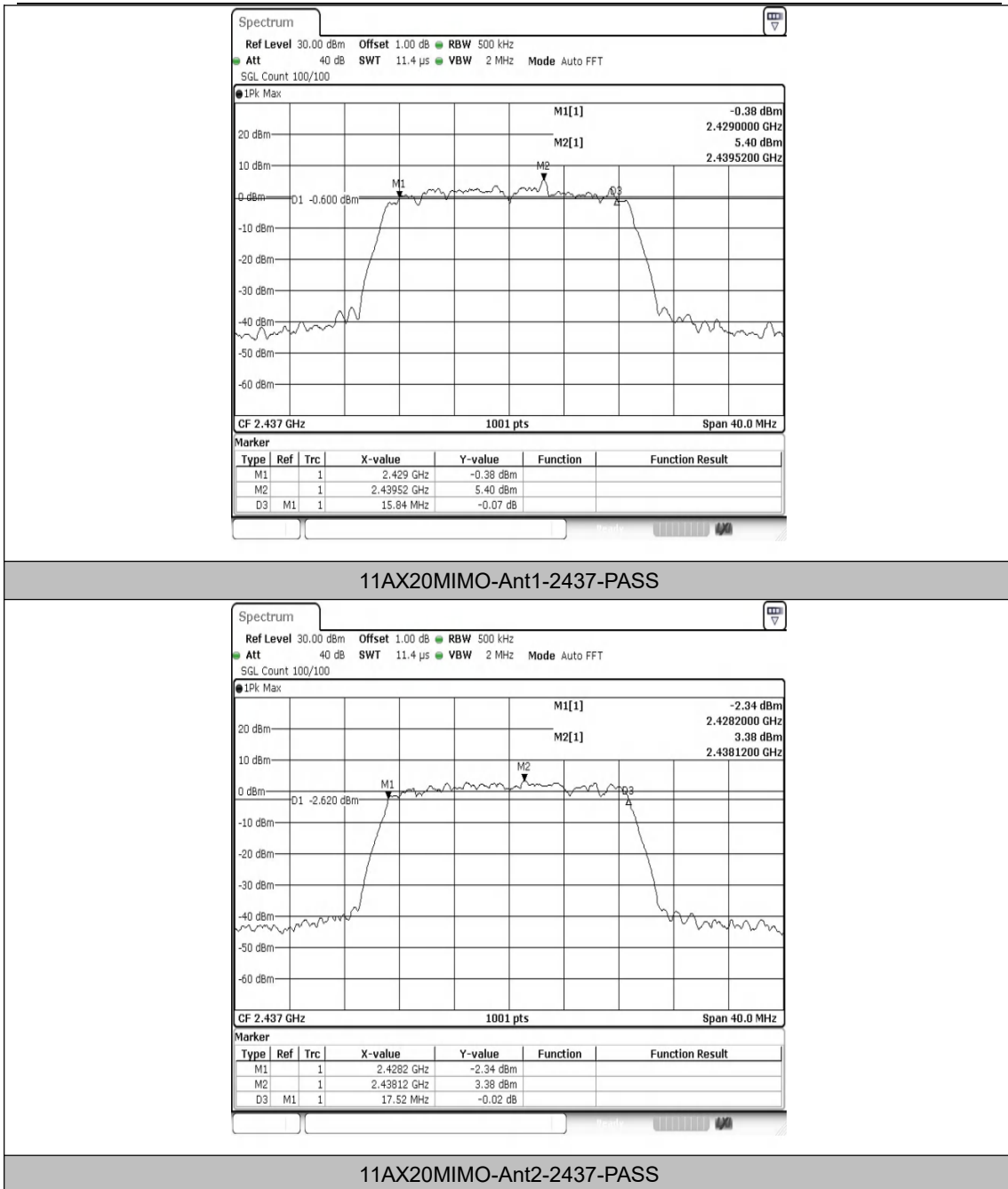




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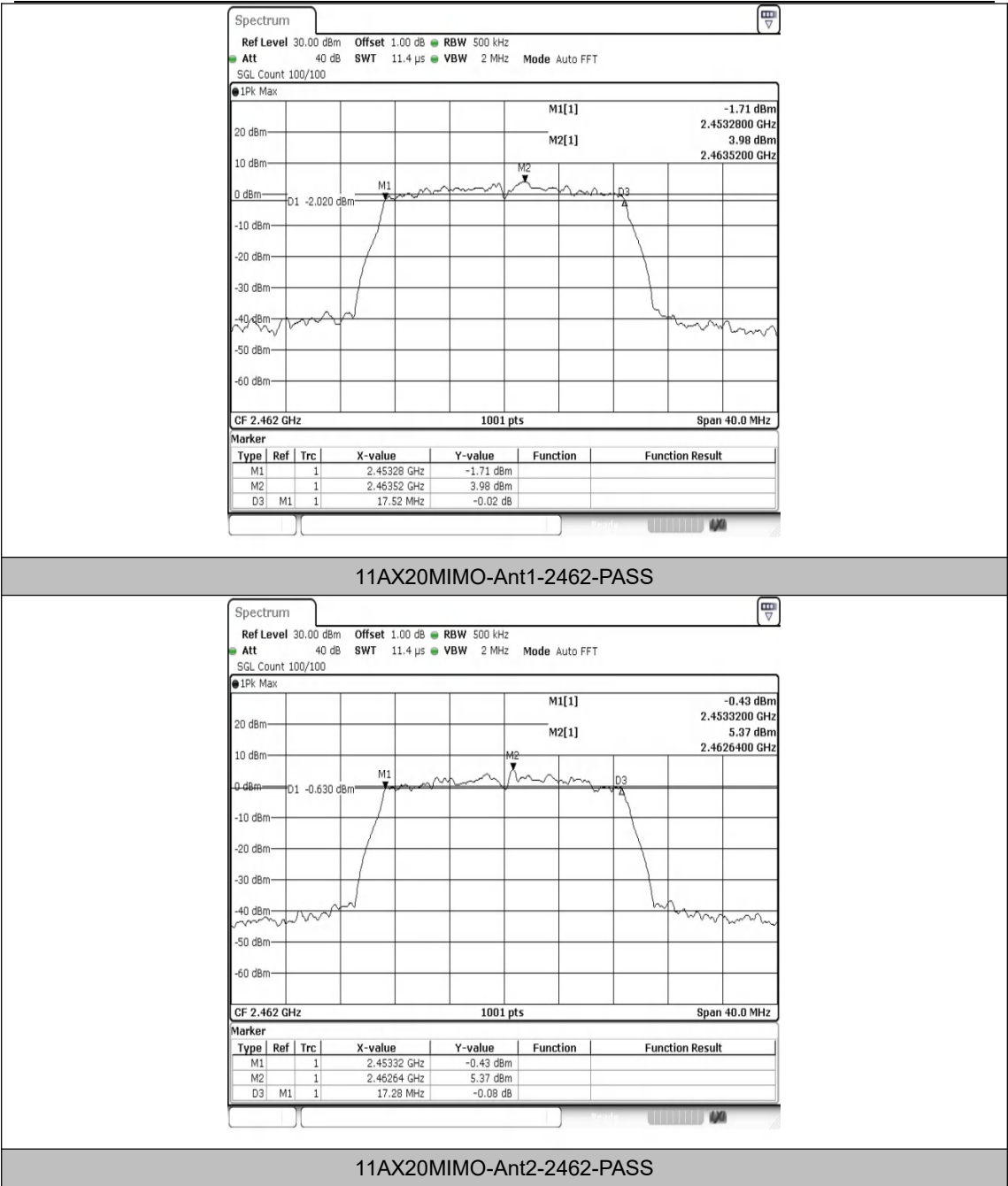
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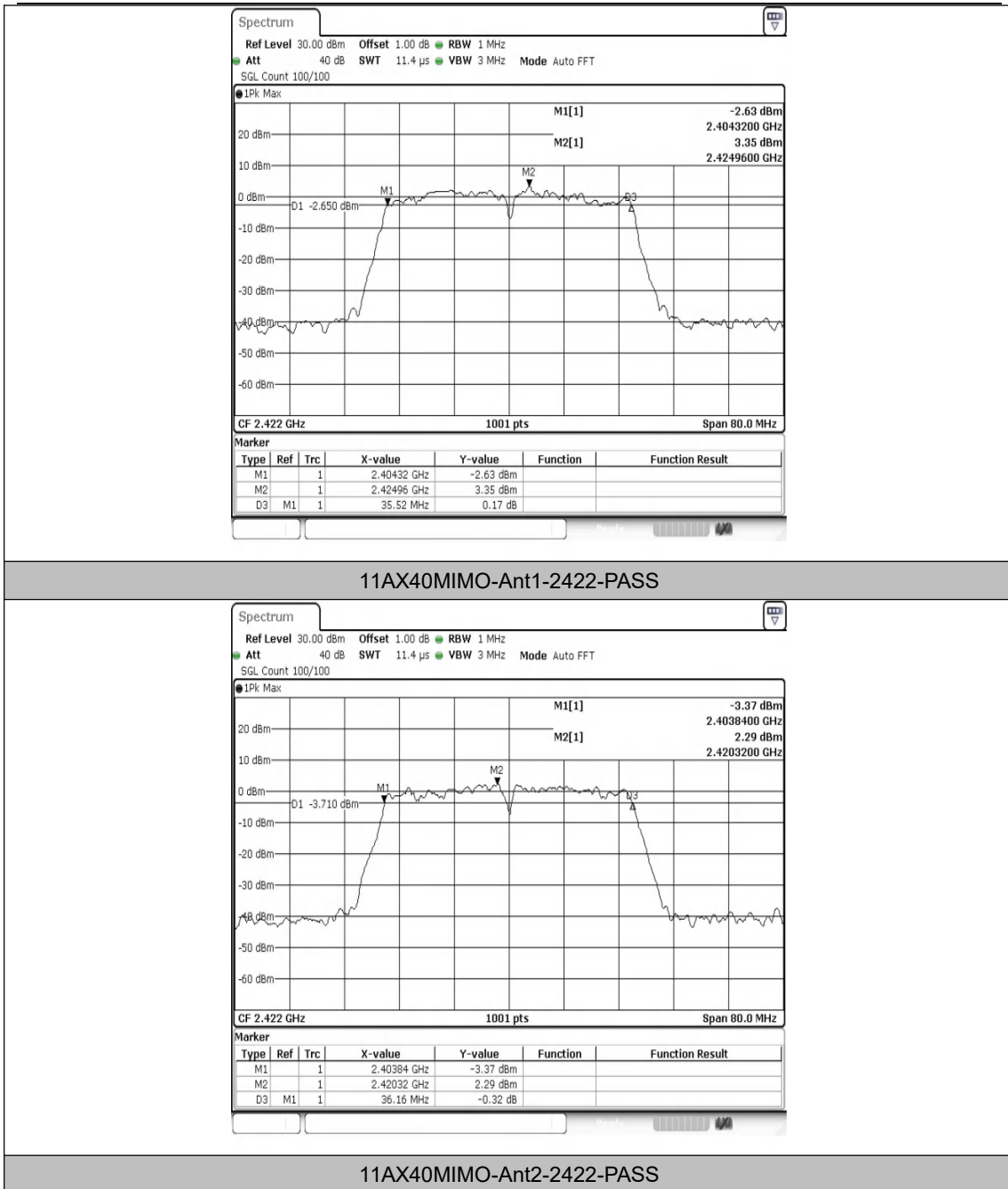


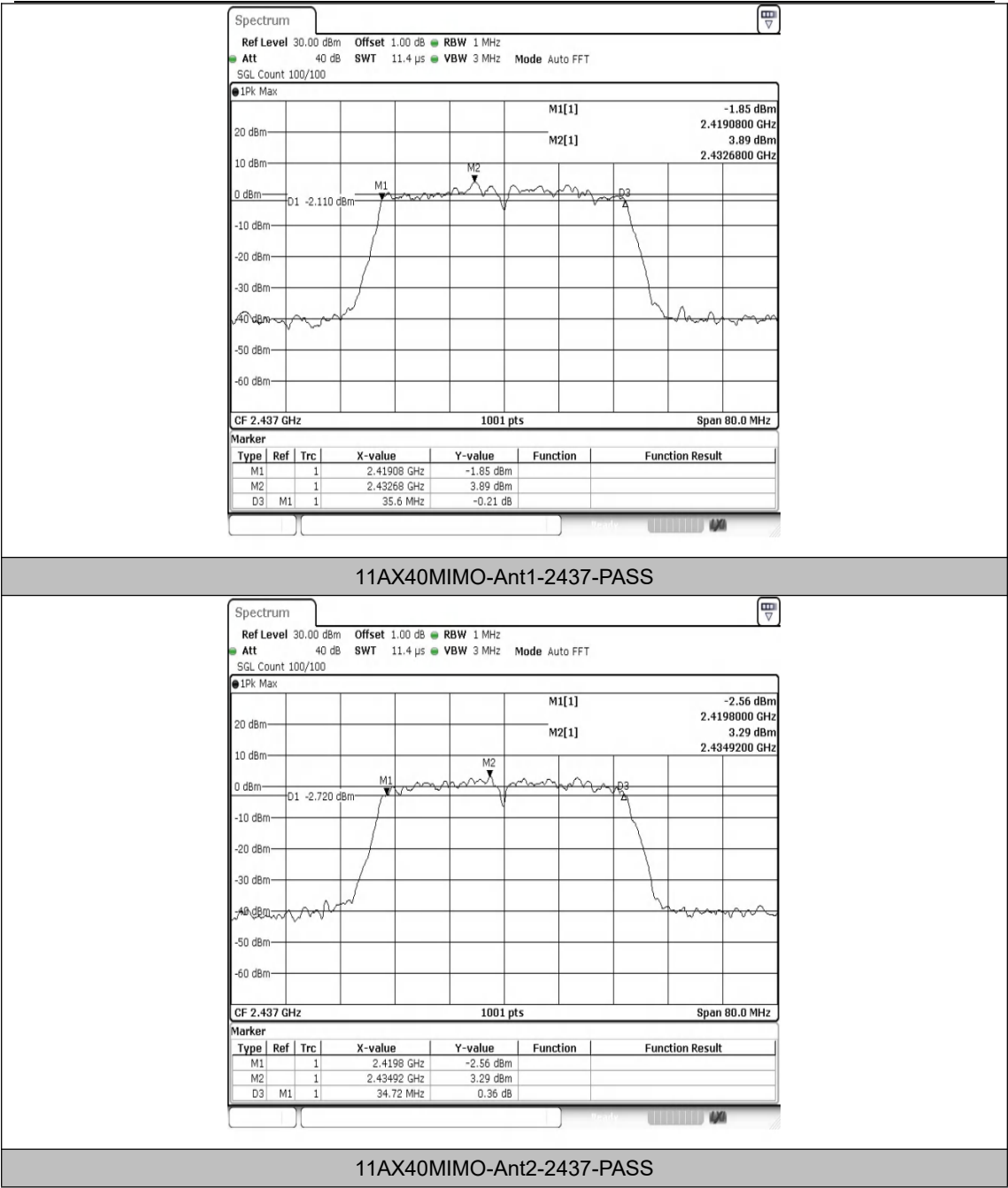
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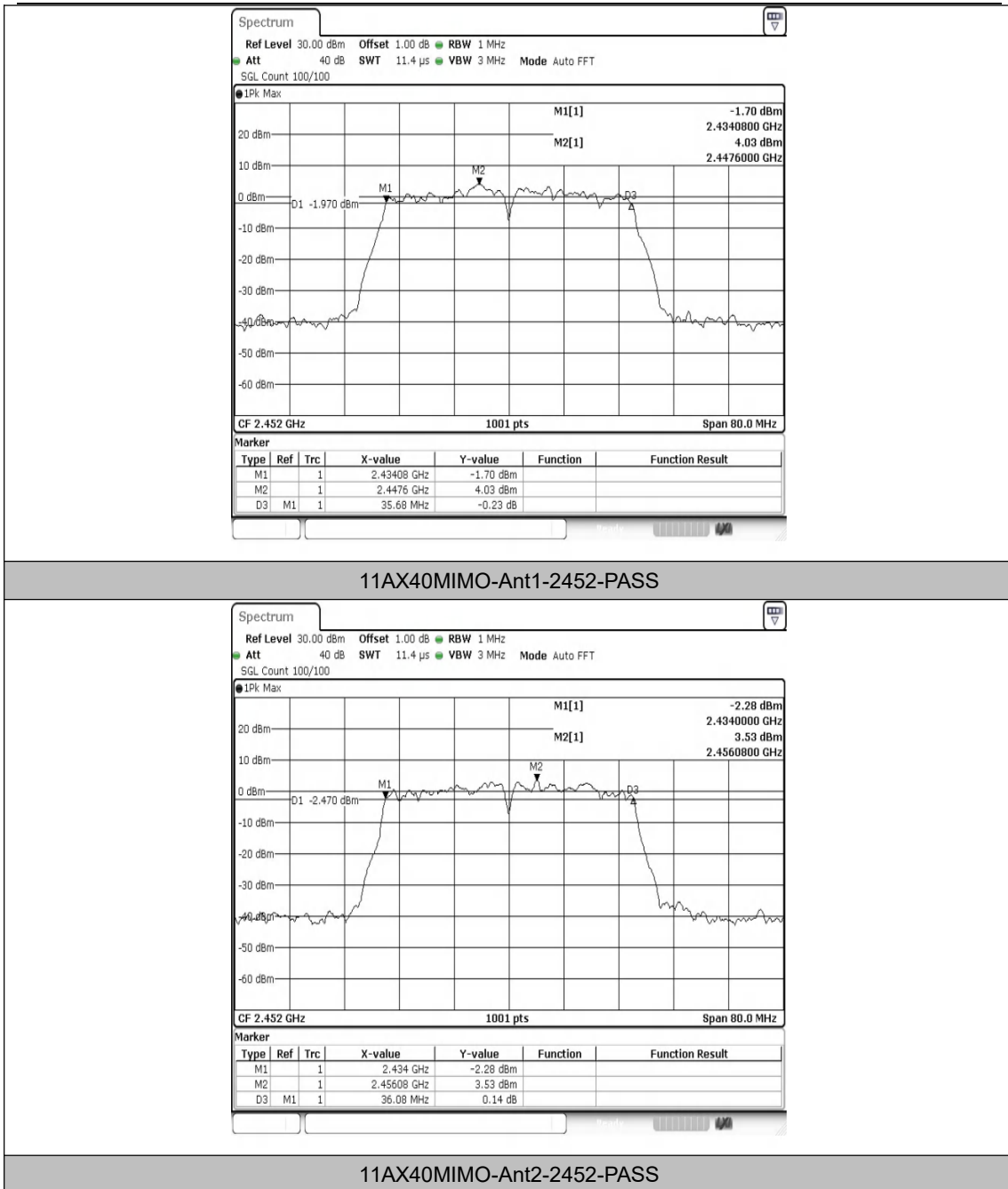
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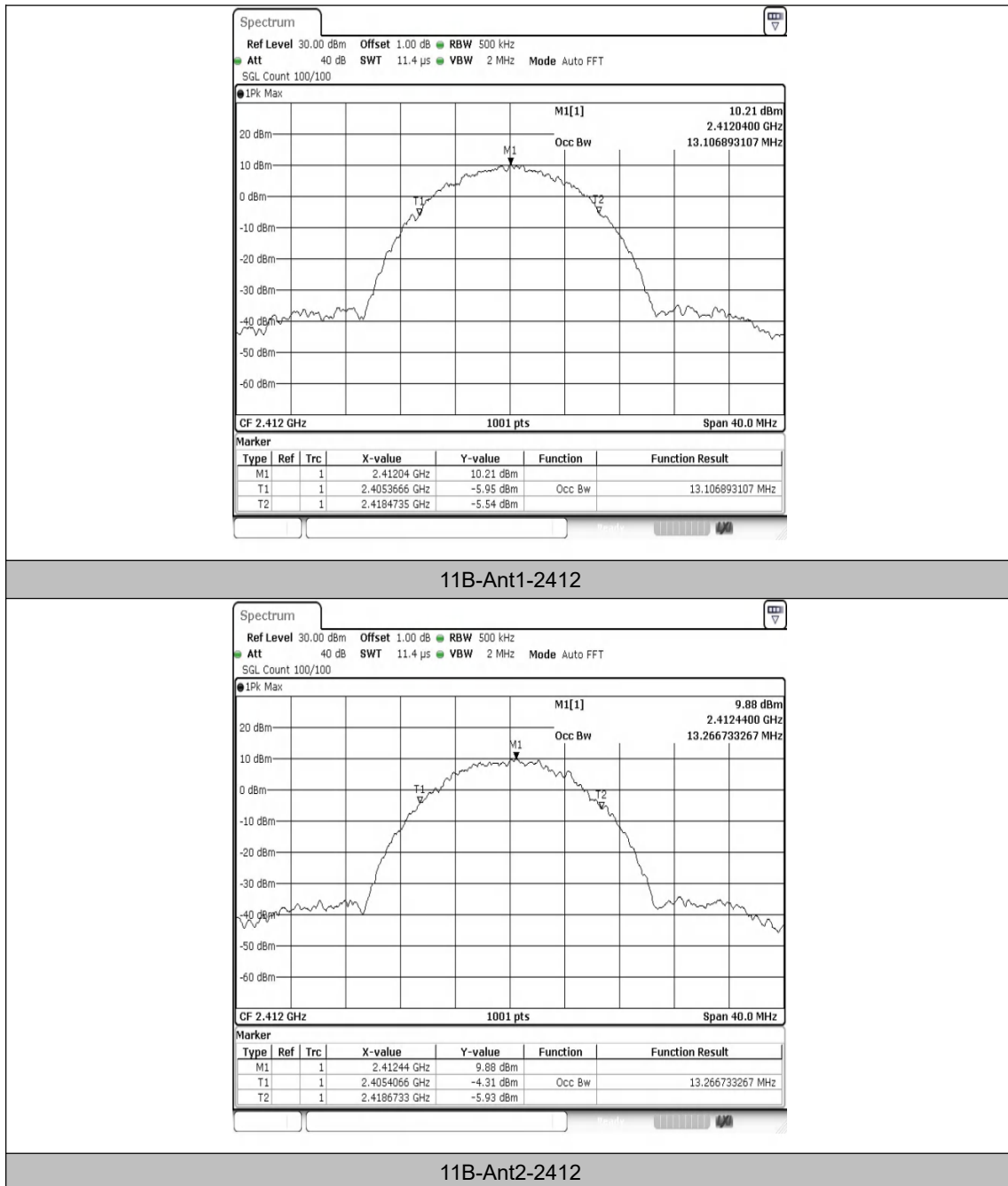


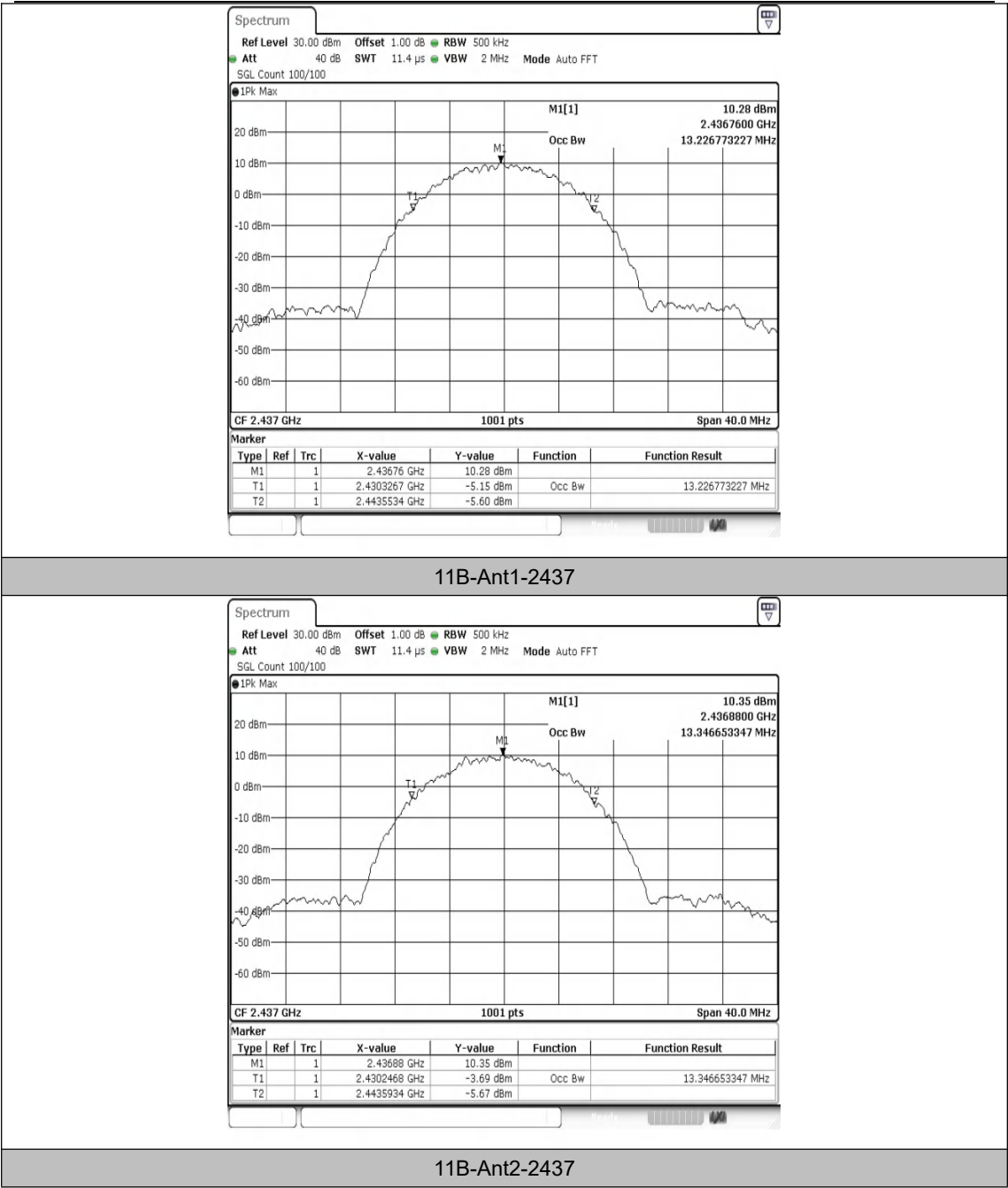
Appendix B: 99% Occupied Bandwidth

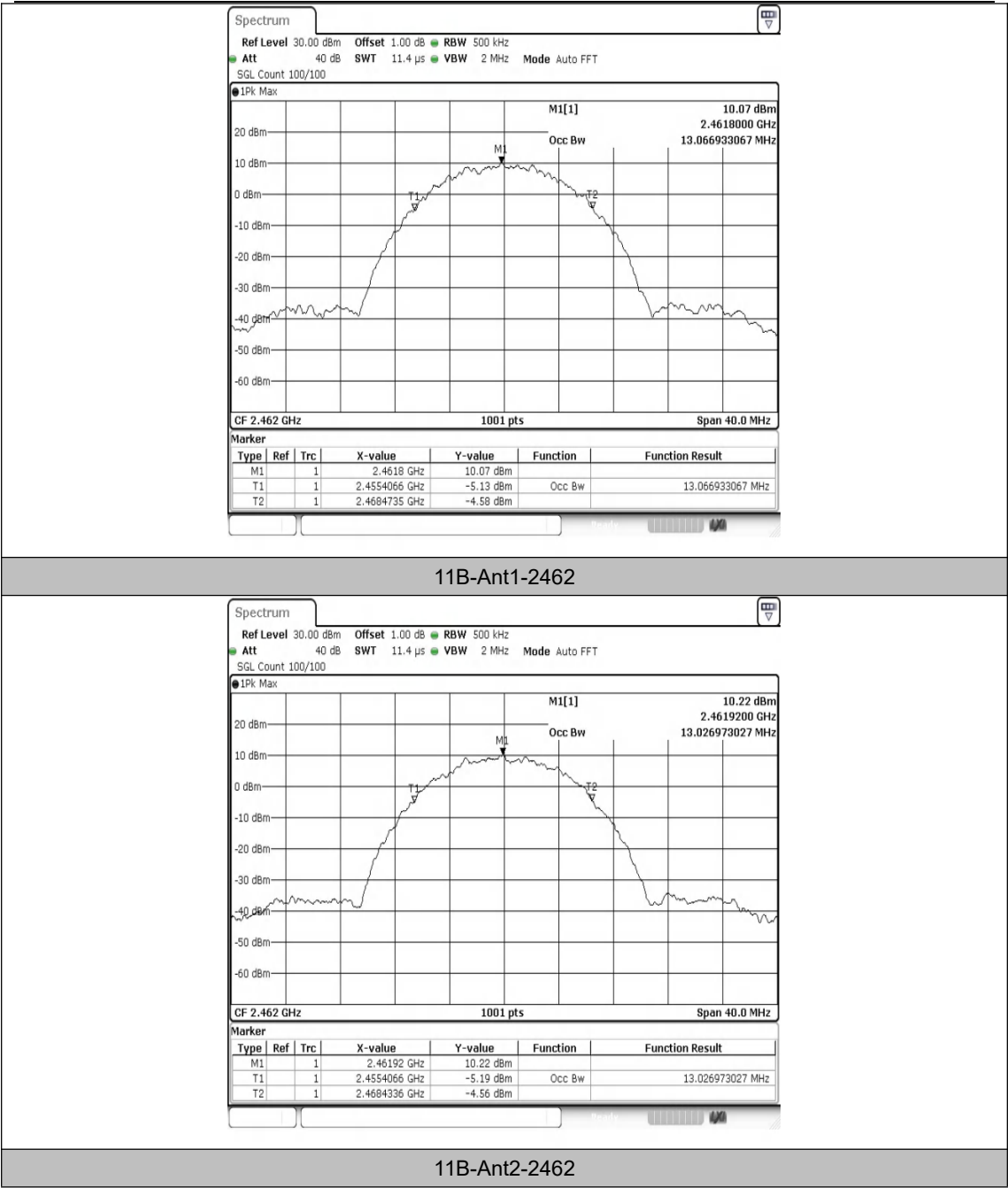
Test Result

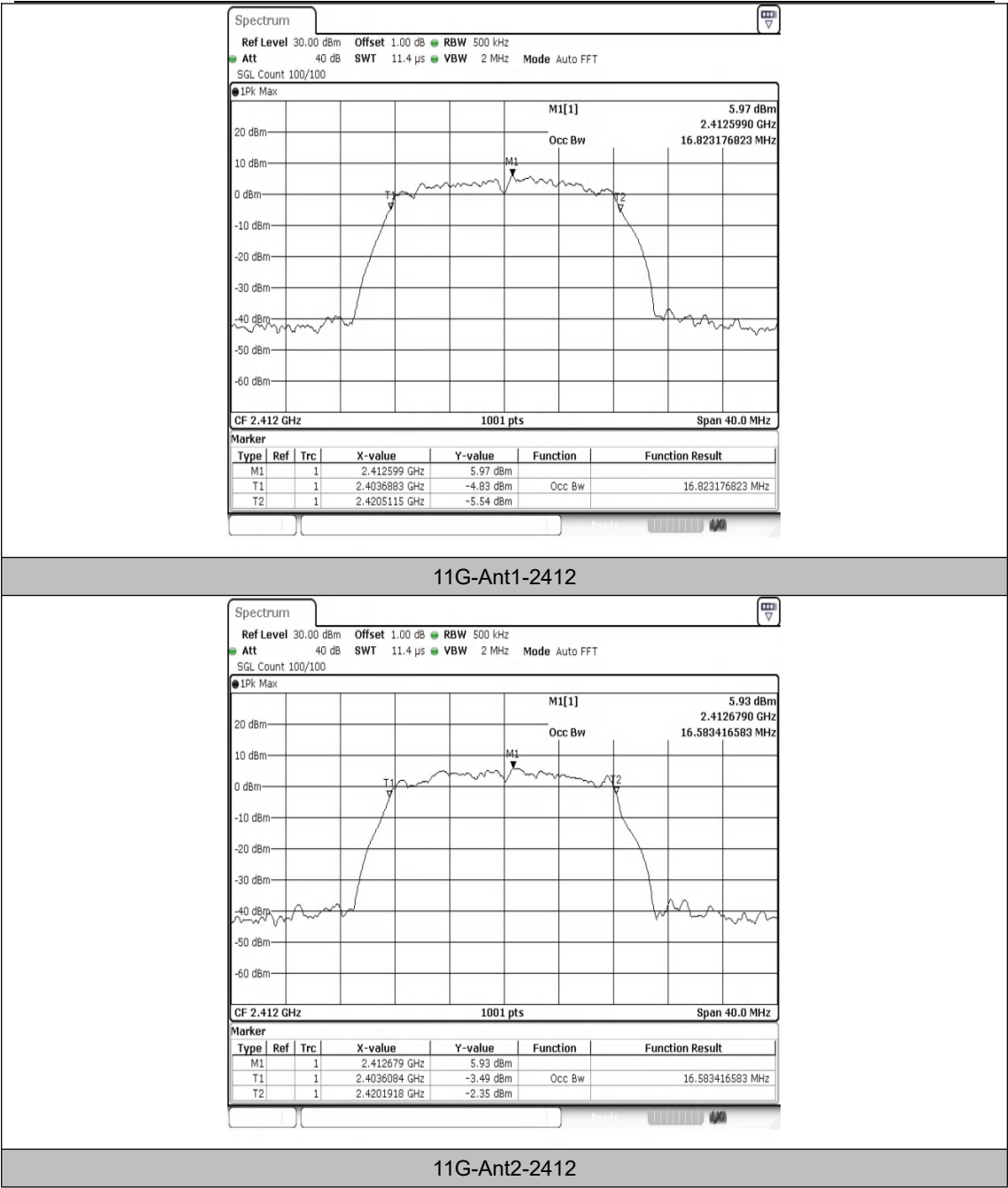
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	13.107	2405.3666	2418.4735	---	---
11B	Ant1	2412	13.267	2405.4066	2418.6733	---	---
11B	Ant0	2437	13.227	2430.3267	2443.5534	---	---
11B	Ant1	2437	13.347	2430.2468	2443.5934	---	---
11B	Ant0	2462	13.067	2455.4066	2468.4735	---	---
11B	Ant1	2462	13.027	2455.4066	2468.4336	---	---
11G	Ant0	2412	16.823	2403.6883	2420.5115	---	---
11G	Ant1	2412	16.583	2403.6084	2420.1918	---	---
11G	Ant0	2437	16.583	2428.6484	2445.2318	---	---
11G	Ant1	2437	16.543	2428.7283	2445.2717	---	---
11G	Ant0	2462	16.743	2453.6883	2470.4316	---	---
11G	Ant1	2462	16.703	2453.6084	2470.3117	---	---
11N20MIMO	Ant0	2412	17.622	2403.1289	2420.7512	---	---
11N20MIMO	Ant1	2412	17.702	2403.0889	2420.7912	---	---
11N20MIMO	Ant0	2437	17.622	2428.1688	2445.7912	---	---
11N20MIMO	Ant1	2437	17.822	2428.1289	2445.9510	---	---
11N20MIMO	Ant0	2462	17.742	2453.1688	2470.9111	---	---
11N20MIMO	Ant1	2462	17.822	2453.0490	2470.8711	---	---
11N40MIMO	Ant0	2422	36.204	2403.9381	2440.1419	---	---
11N40MIMO	Ant1	2422	36.124	2403.8581	2439.9820	---	---
11N40MIMO	Ant0	2437	36.124	2419.0180	2455.1419	---	---
11N40MIMO	Ant1	2437	36.204	2418.7782	2454.9820	---	---
11N40MIMO	Ant0	2452	36.284	2433.9381	2470.2218	---	---
11N40MIMO	Ant1	2452	36.204	2433.8581	2470.0619	---	---
11AX20MIMO	Ant0	2412	18.621	2402.6494	2421.2707	---	---
11AX20MIMO	Ant1	2412	18.661	2402.6094	2421.2707	---	---
11AX20MIMO	Ant0	2437	17.822	2428.1289	2445.9510	---	---
11AX20MIMO	Ant1	2437	17.702	2428.1289	2445.8312	---	---
11AX20MIMO	Ant0	2462	17.702	2453.1289	2470.8312	---	---
11AX20MIMO	Ant1	2462	17.942	2453.0490	2470.9910	---	---
11AX40MIMO	Ant0	2422	36.284	2403.7782	2440.0619	---	---
11AX40MIMO	Ant1	2422	36.044	2403.8581	2439.9021	---	---
11AX40MIMO	Ant0	2437	36.603	2418.6983	2455.3017	---	---
11AX40MIMO	Ant1	2437	36.523	2418.7782	2455.3017	---	---
11AX40MIMO	Ant0	2452	36.444	2433.8581	2470.3017	---	---
11AX40MIMO	Ant1	2452	36.044	2434.0180	2470.0619	---	---

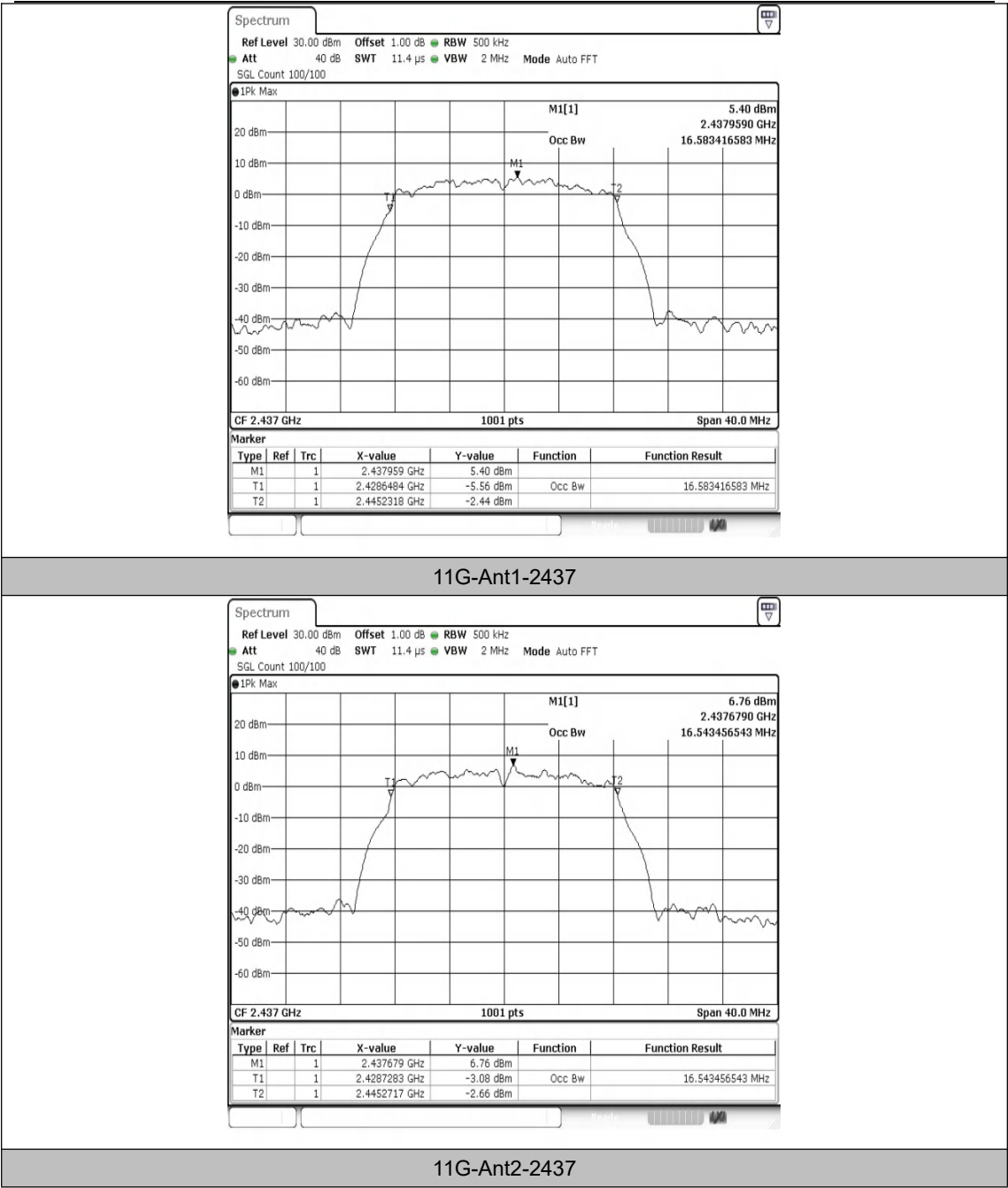
Test Graphs

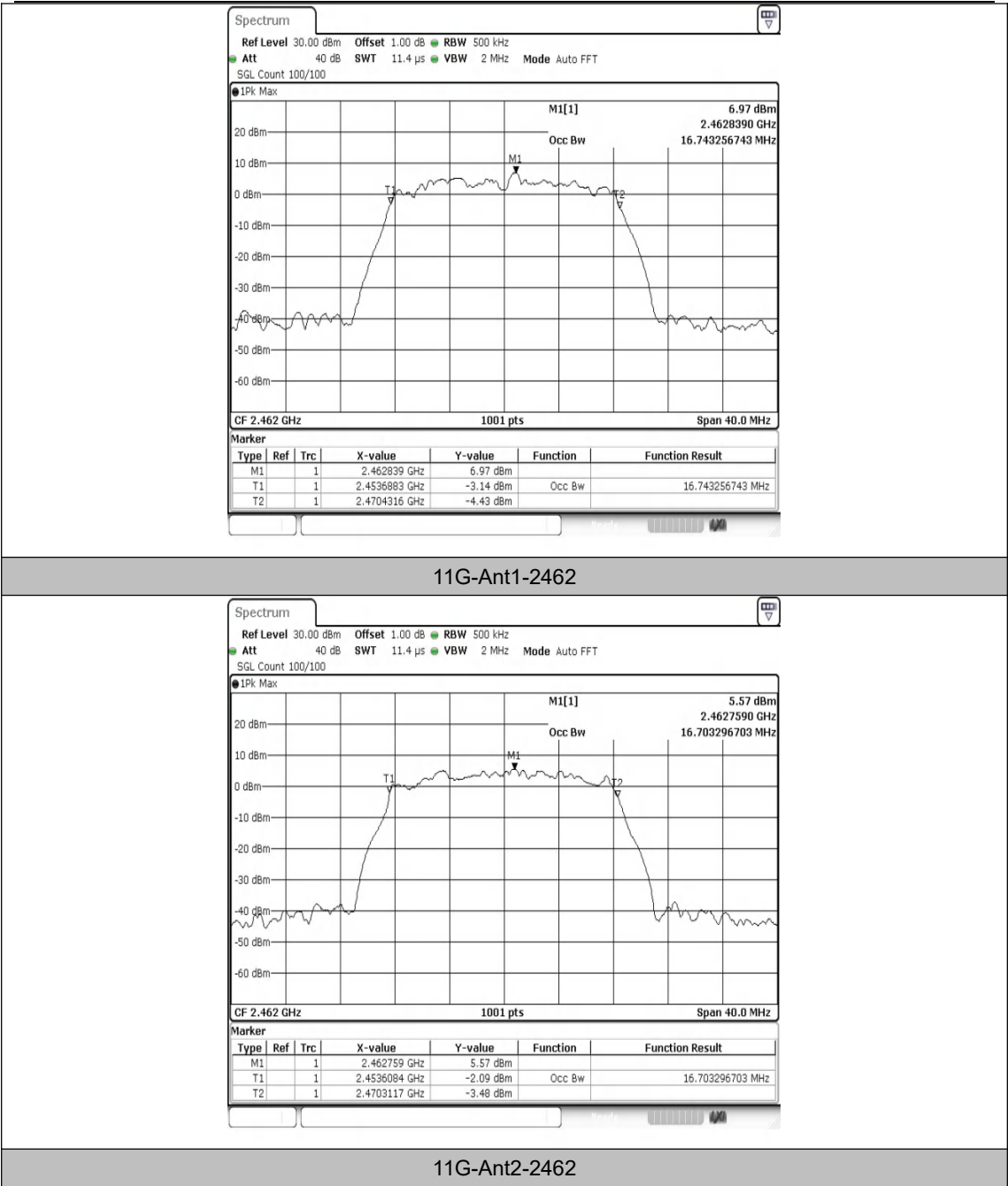


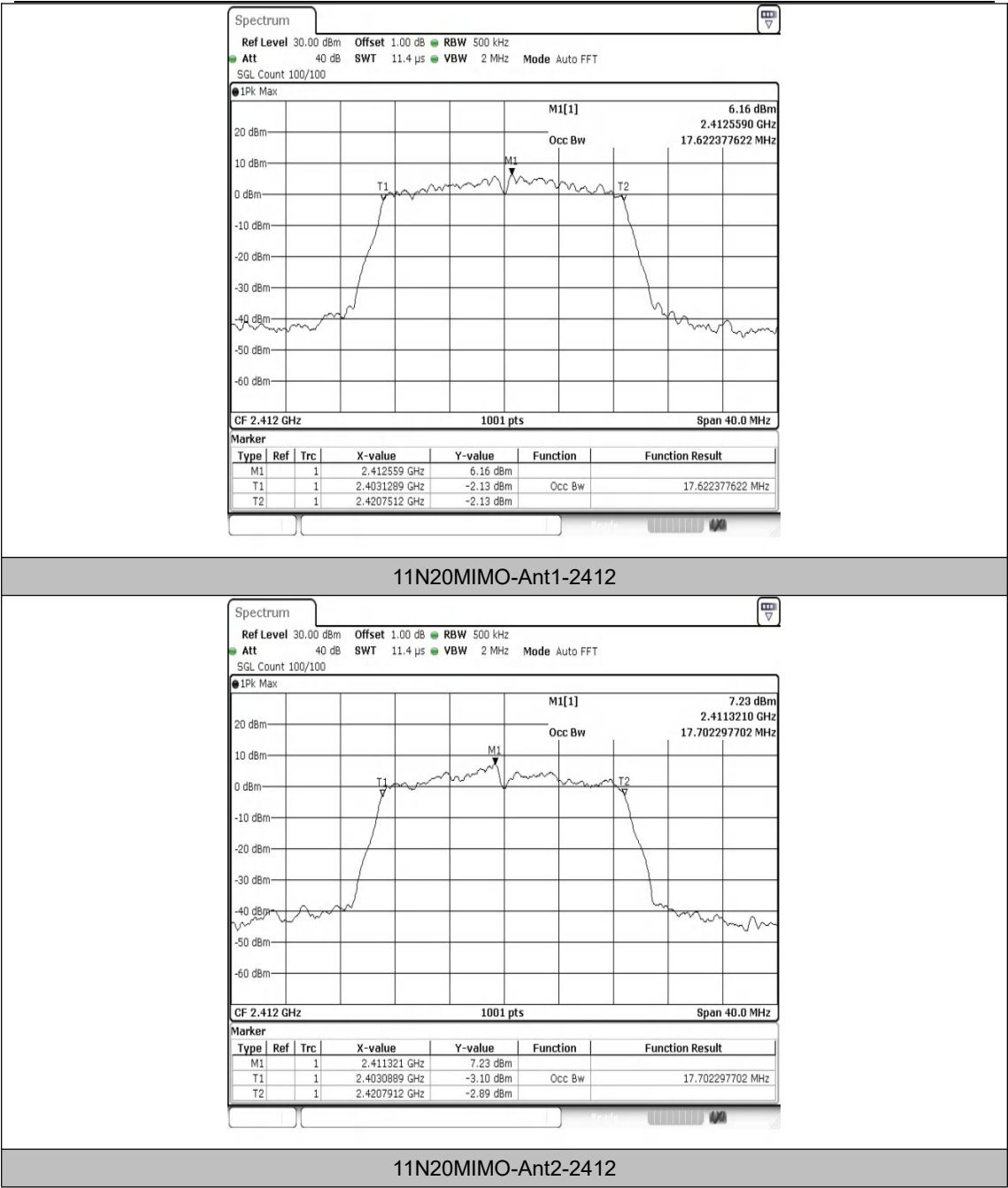


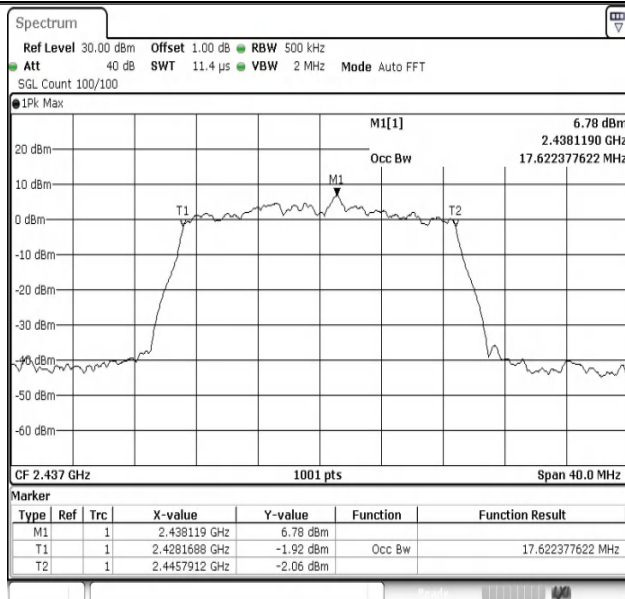




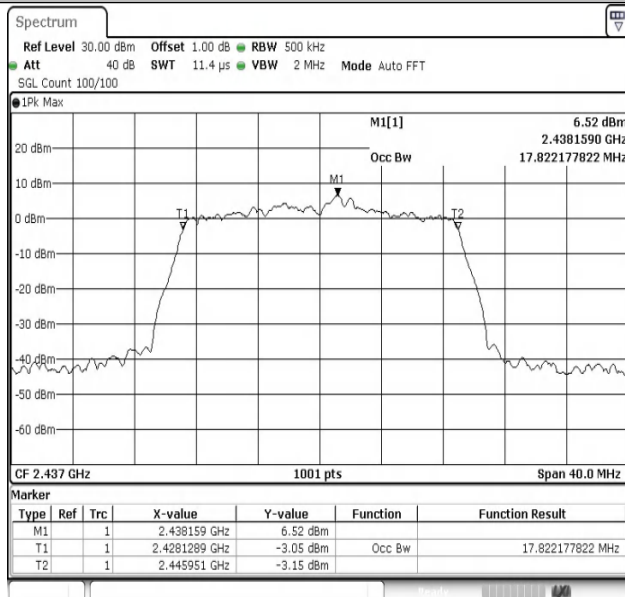








11N20MIMO-Ant1-2437

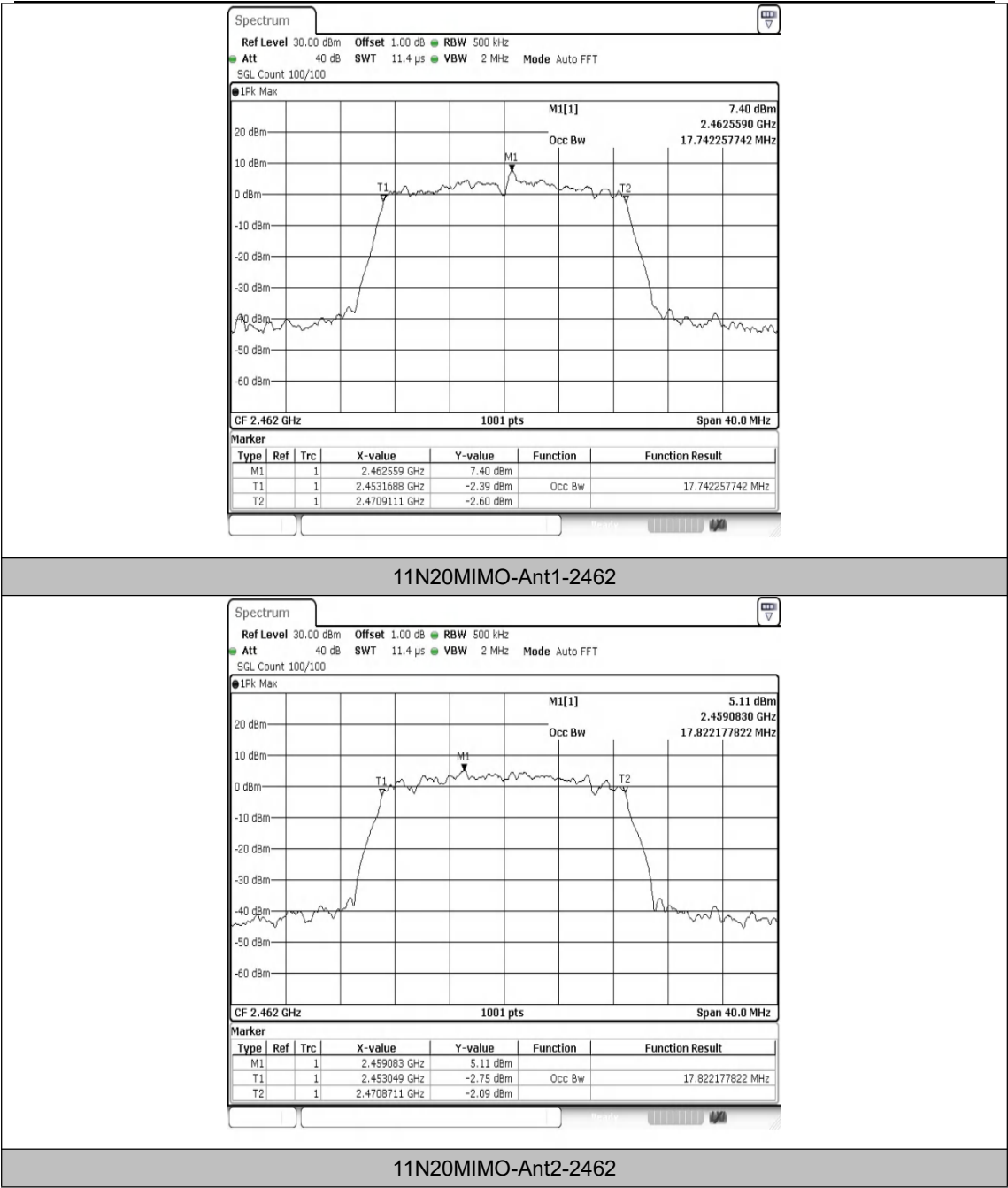


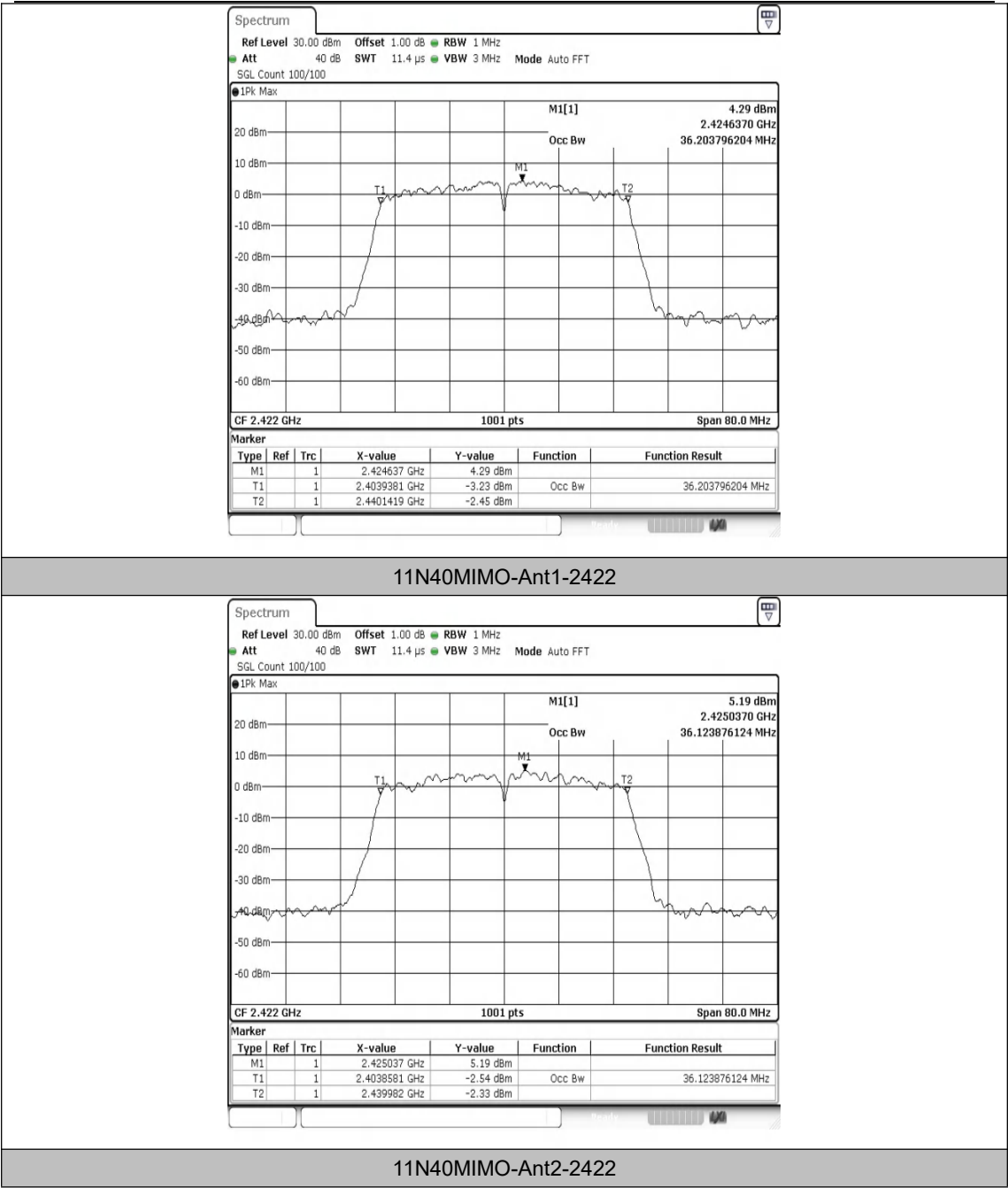
11N20MIMO-Ant2-2437

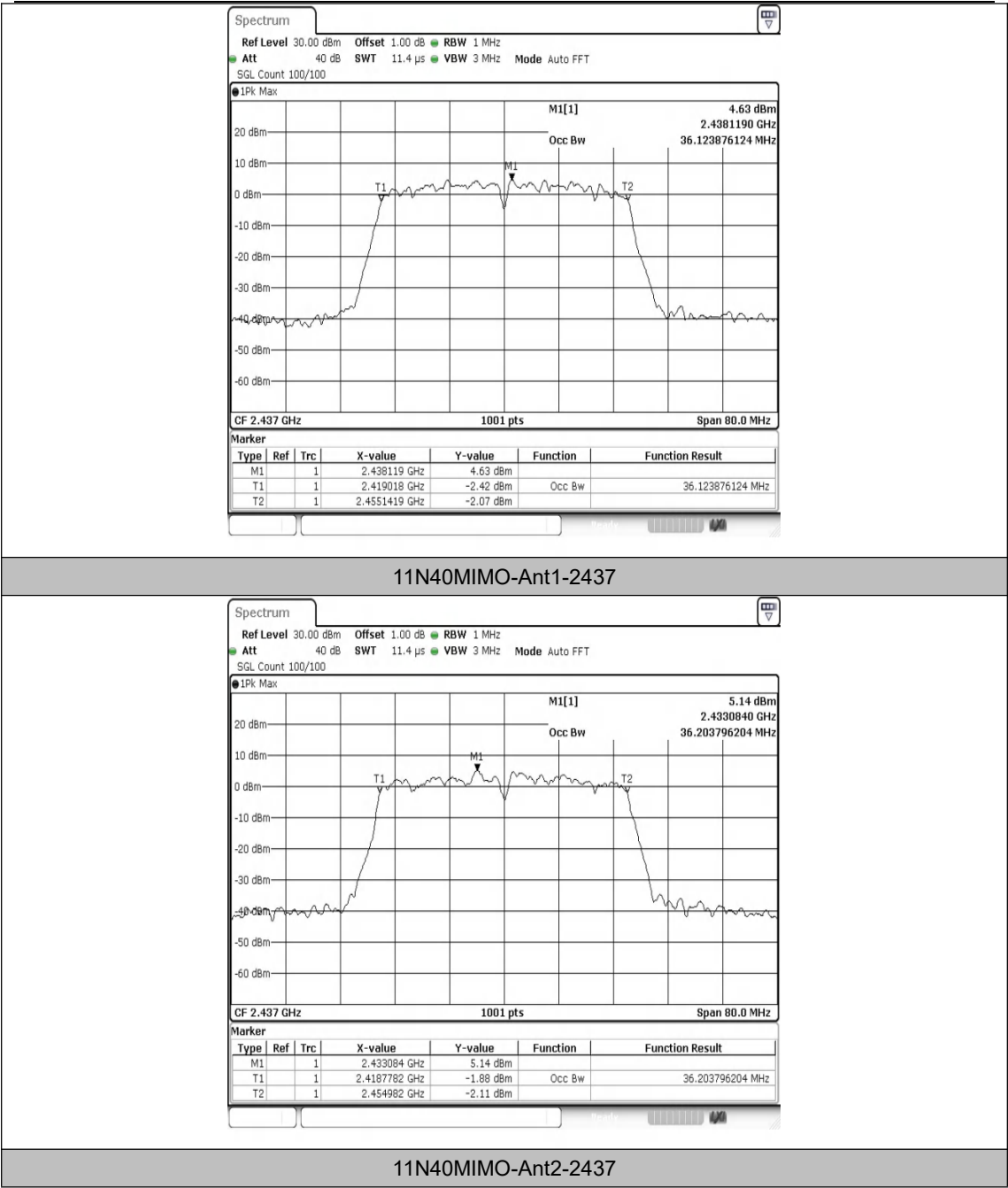
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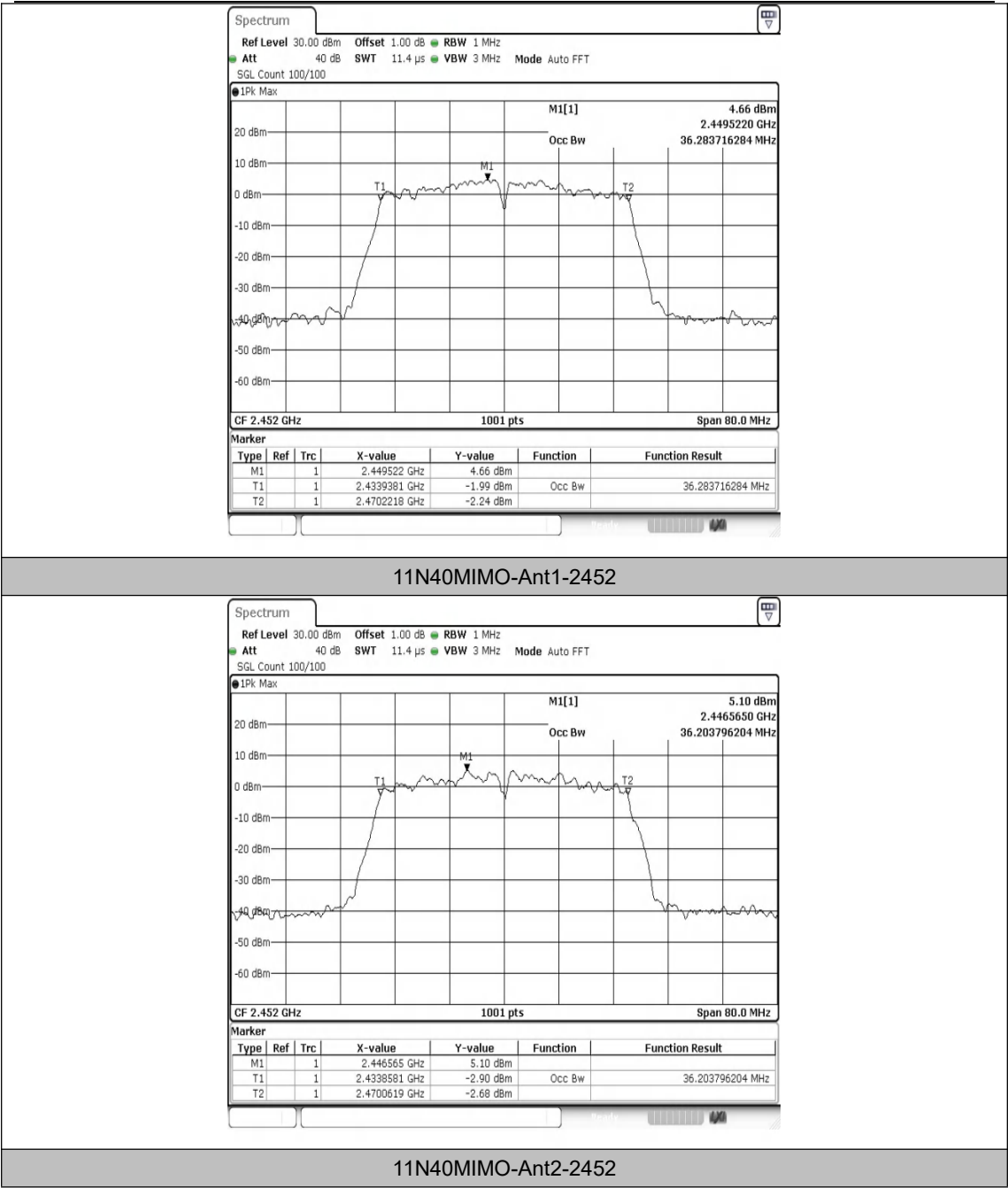
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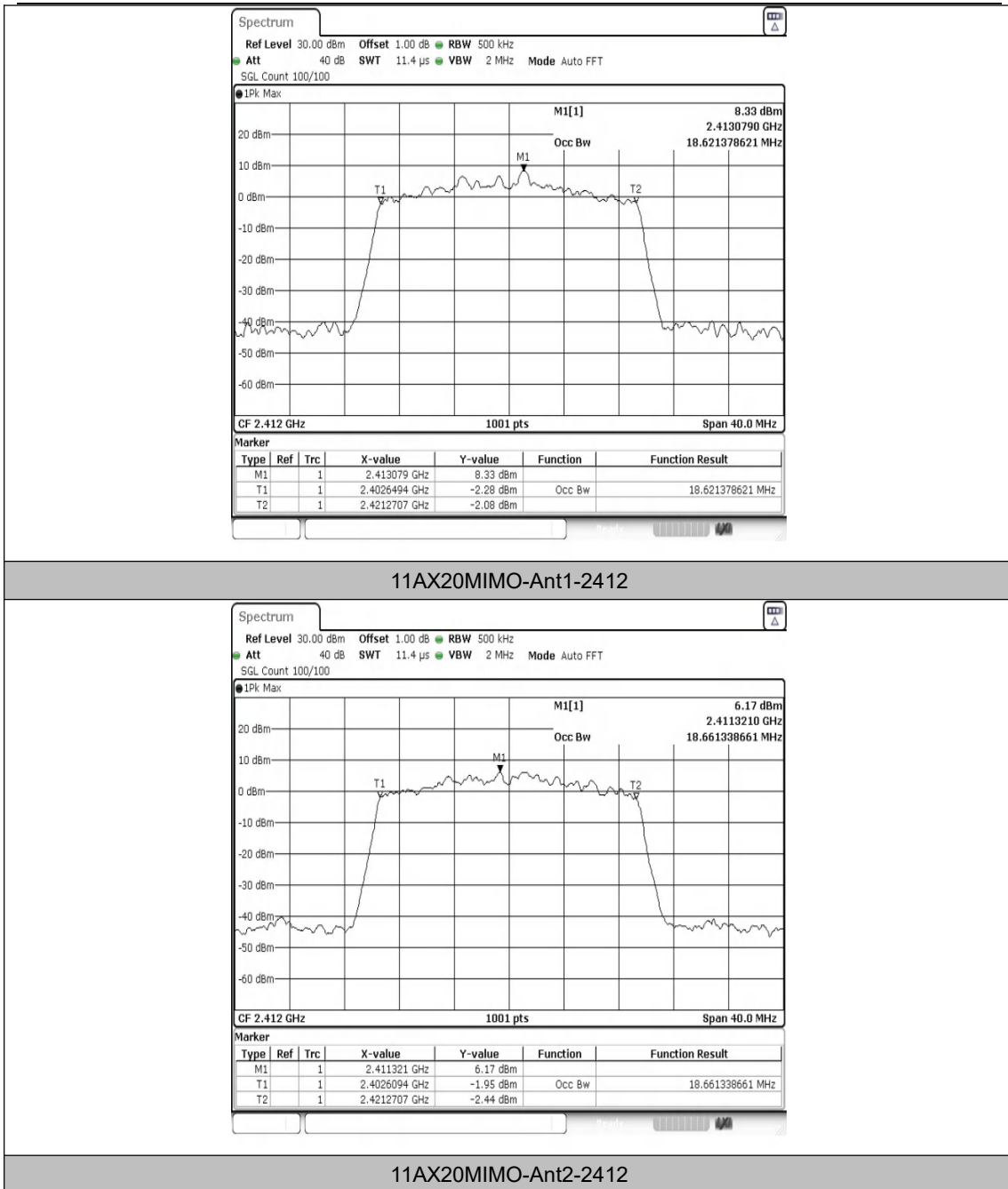
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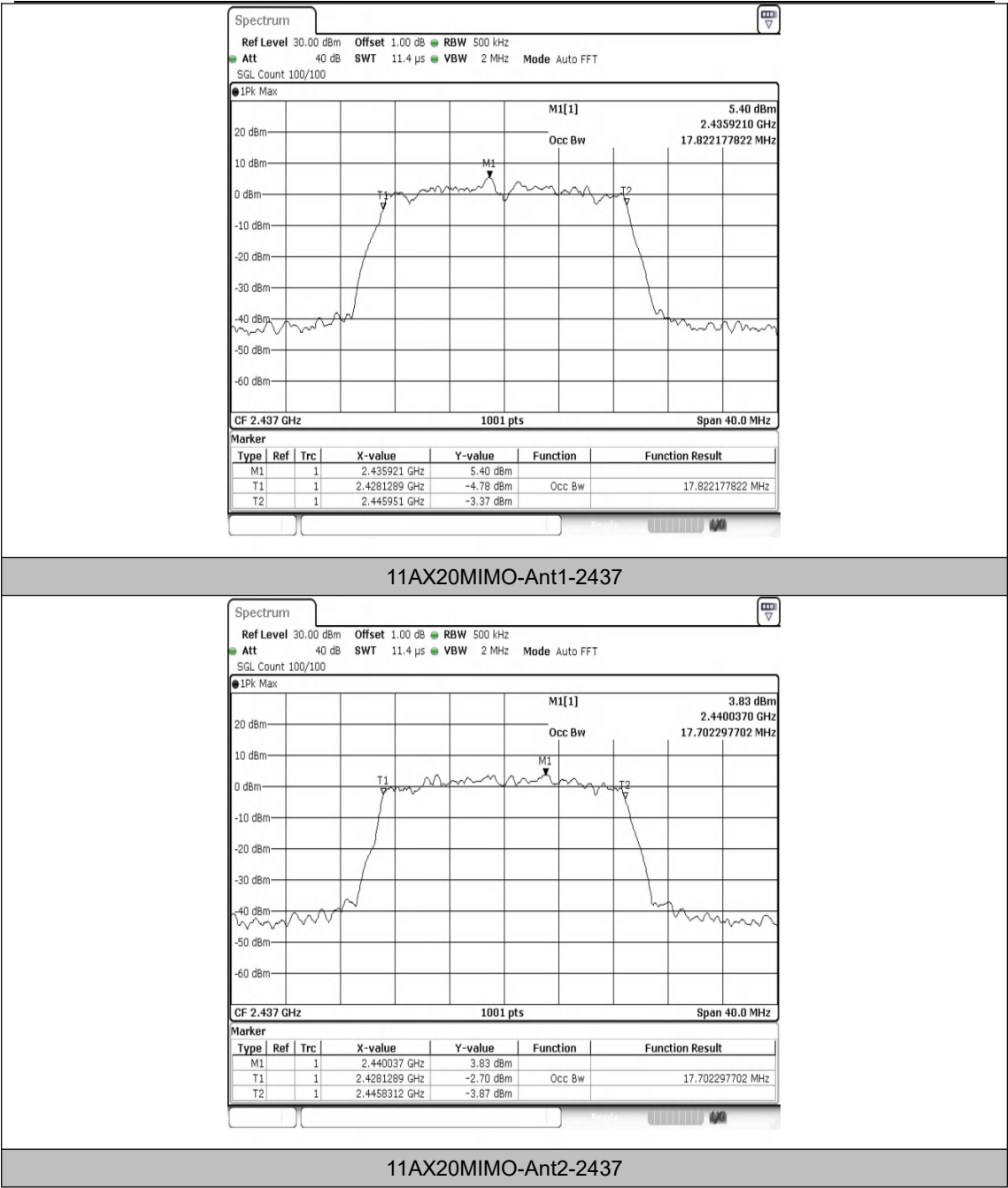


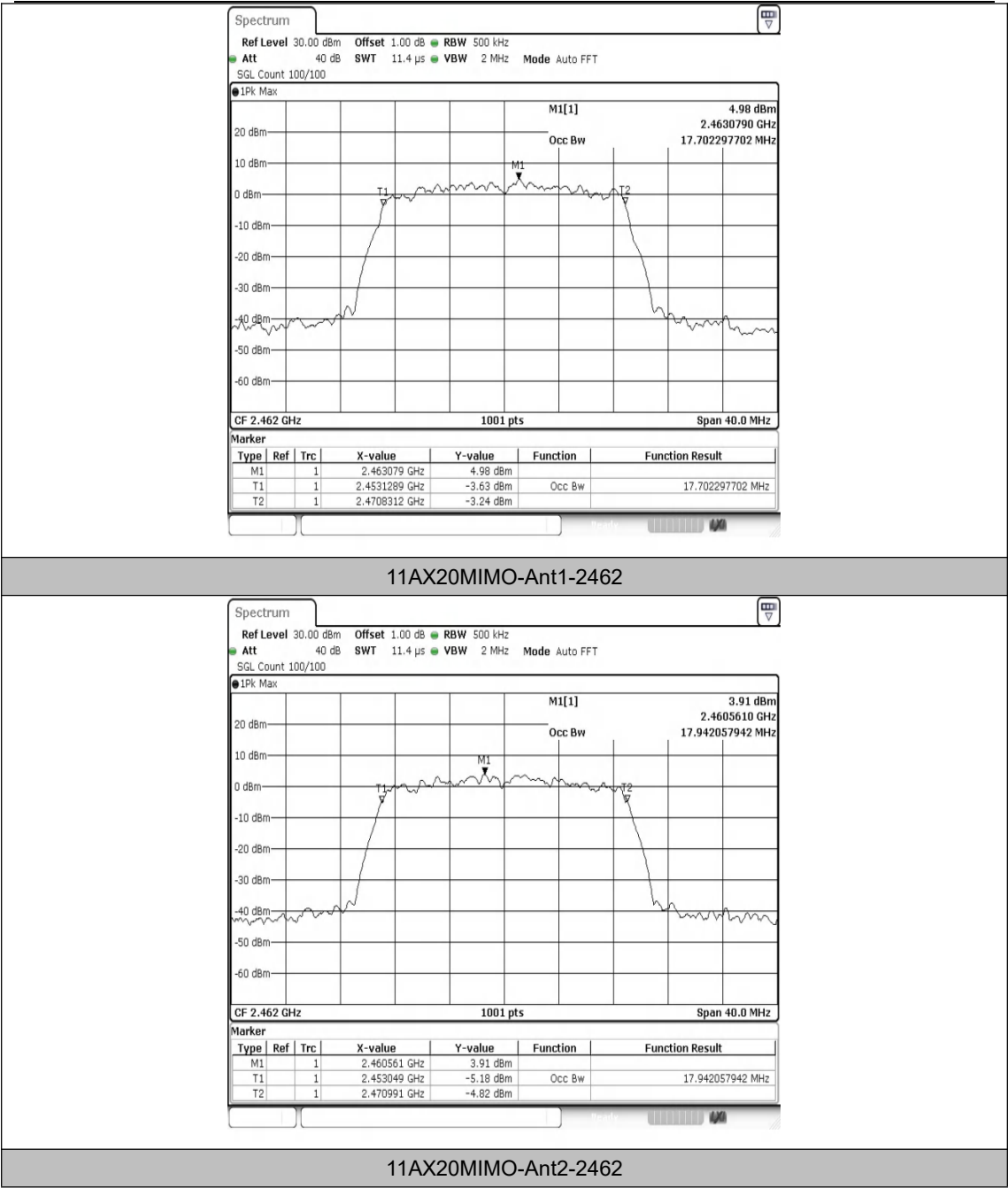


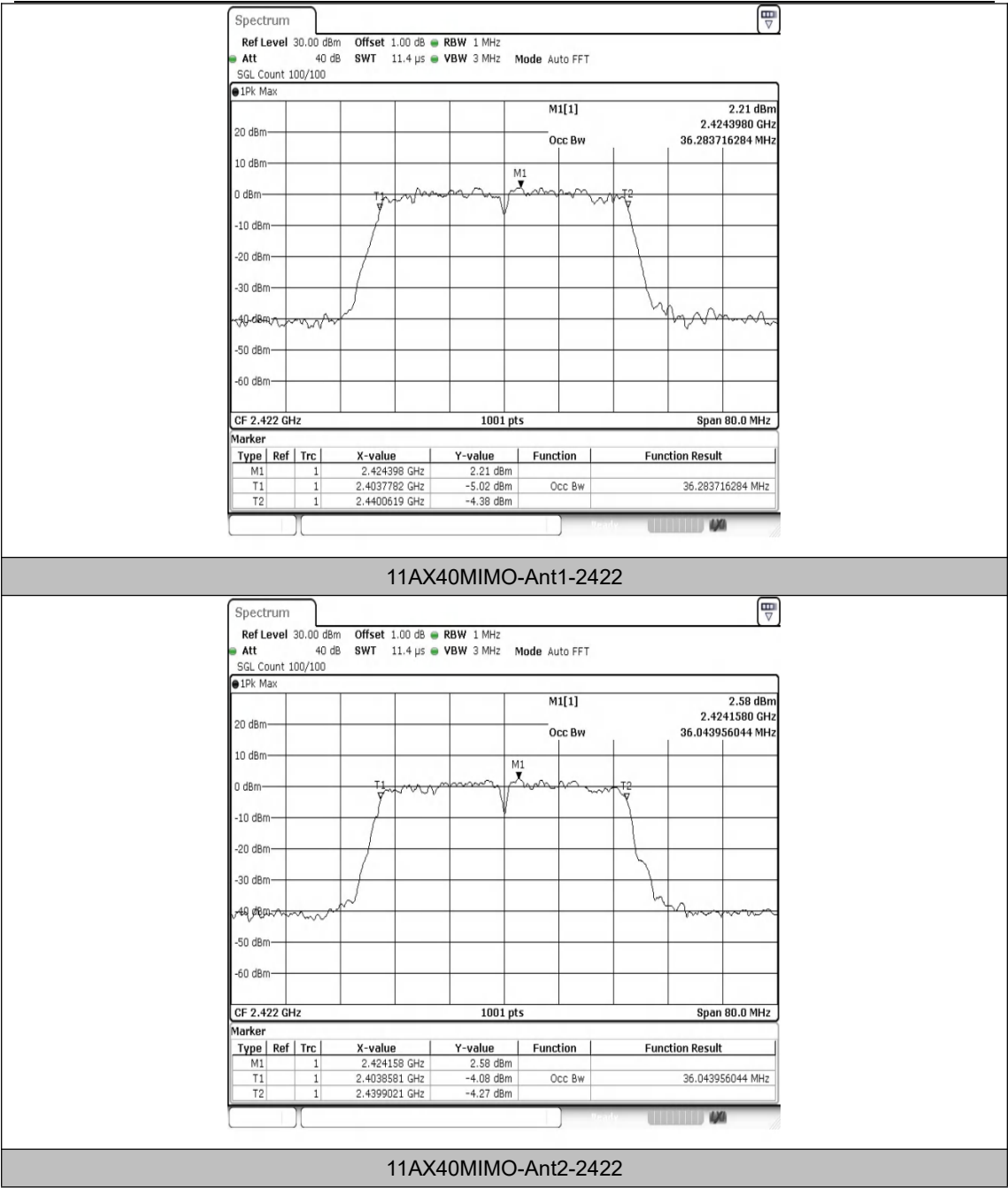


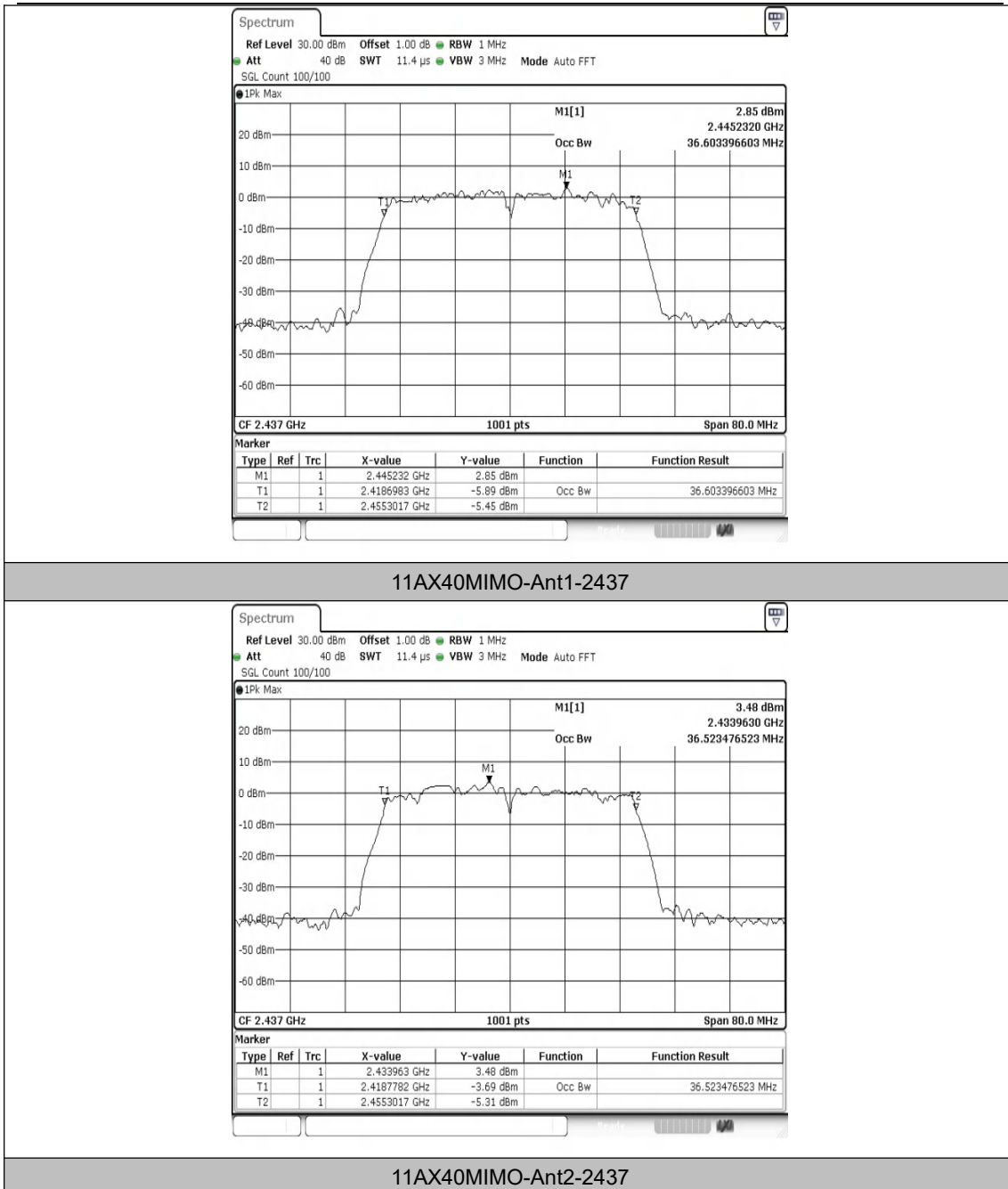


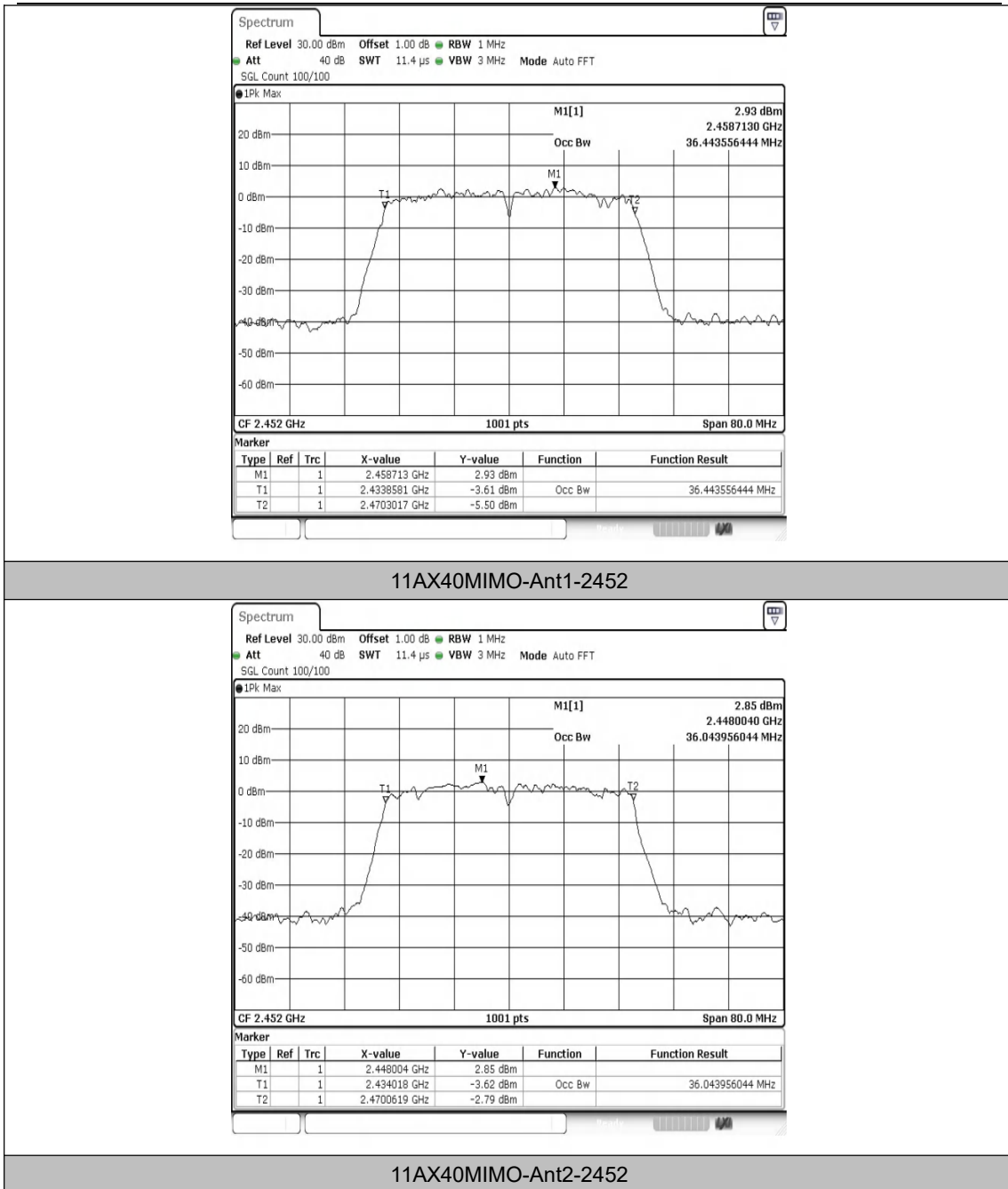












Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	NA	14.49	100.00	0.00	14.49	≤30.00	PASS
11B	Ant1	2412	NA	14.61	100.00	0.00	14.61	≤30.00	PASS
11B	Ant0	2437	NA	14.79	100.00	0.00	14.79	≤30.00	PASS
11B	Ant1	2437	NA	14.89	100.00	0.00	14.89	≤30.00	PASS
11B	Ant0	2462	NA	14.49	100.00	0.00	14.49	≤30.00	PASS
11B	Ant1	2462	NA	14.49	100.00	0.00	14.49	≤30.00	PASS
11G	Ant0	2412	NA	11.10	100.00	0.00	11.10	≤30.00	PASS
11G	Ant1	2412	NA	11.25	100.00	0.00	11.25	≤30.00	PASS
11G	Ant0	2437	NA	11.24	100.00	0.00	11.24	≤30.00	PASS
11G	Ant1	2437	NA	11.25	100.00	0.00	11.25	≤30.00	PASS
11G	Ant0	2462	NA	11.06	100.00	0.00	11.06	≤30.00	PASS
11G	Ant1	2462	NA	11.09	100.00	0.00	11.09	≤30.00	PASS
11N20MIMO	Ant0	2412	NA	10.65	100.00	0.00	10.65	≤30.00	PASS
11N20MIMO	Ant1	2412	NA	10.63	100.00	0.00	10.63	≤30.00	PASS
11N20MIMO	total	2412	---	---	---	---	13.65	≤30.00	PASS
11N20MIMO	Ant0	2437	NA	10.63	100.00	0.00	10.63	≤30.00	PASS
11N20MIMO	Ant1	2437	NA	10.63	100.00	0.00	10.63	≤30.00	PASS
11N20MIMO	total	2437	---	---	---	---	13.64	≤30.00	PASS
11N20MIMO	Ant0	2462	NA	10.58	100.00	0.00	10.58	≤30.00	PASS
11N20MIMO	Ant1	2462	NA	10.56	100.00	0.00	10.56	≤30.00	PASS
11N20MIMO	total	2462	---	---	---	---	13.58	≤30.00	PASS
11N40MIMO	Ant0	2422	NA	9.46	100.00	0.00	9.46	≤30.00	PASS
11N40MIMO	Ant1	2422	NA	9.46	100.00	0.00	9.46	≤30.00	PASS
11N40MIMO	total	2422	---	---	---	---	12.47	≤30.00	PASS
11N40MIMO	Ant0	2437	NA	9.53	100.00	0.00	9.53	≤30.00	PASS
11N40MIMO	Ant1	2437	NA	9.46	100.00	0.00	9.46	≤30.00	PASS
11N40MIMO	total	2437	---	---	---	---	12.51	≤30.00	PASS
11N40MIMO	Ant0	2452	NA	9.40	100.00	0.00	9.40	≤30.00	PASS
11N40MIMO	Ant1	2452	NA	9.40	100.00	0.00	9.40	≤30.00	PASS
11N40MIMO	total	2452	---	---	---	---	12.41	≤30.00	PASS
11AX20MIMO	Ant0	2412	NA	11.51	100.00	0.00	11.51	≤30.00	PASS
11AX20MIMO	Ant1	2412	NA	11.49	100.00	0.00	11.49	≤30.00	PASS
11AX20MIMO	total	2412	---	---	---	---	14.51	≤30.00	PASS
11AX20MIMO	Ant0	2437	NA	12.76	100.00	0.00	12.76	≤30.00	PASS
11AX20MIMO	Ant1	2437	NA	12.75	100.00	0.00	12.75	≤30.00	PASS
11AX20MIMO	total	2437	---	---	---	---	15.77	≤30.00	PASS

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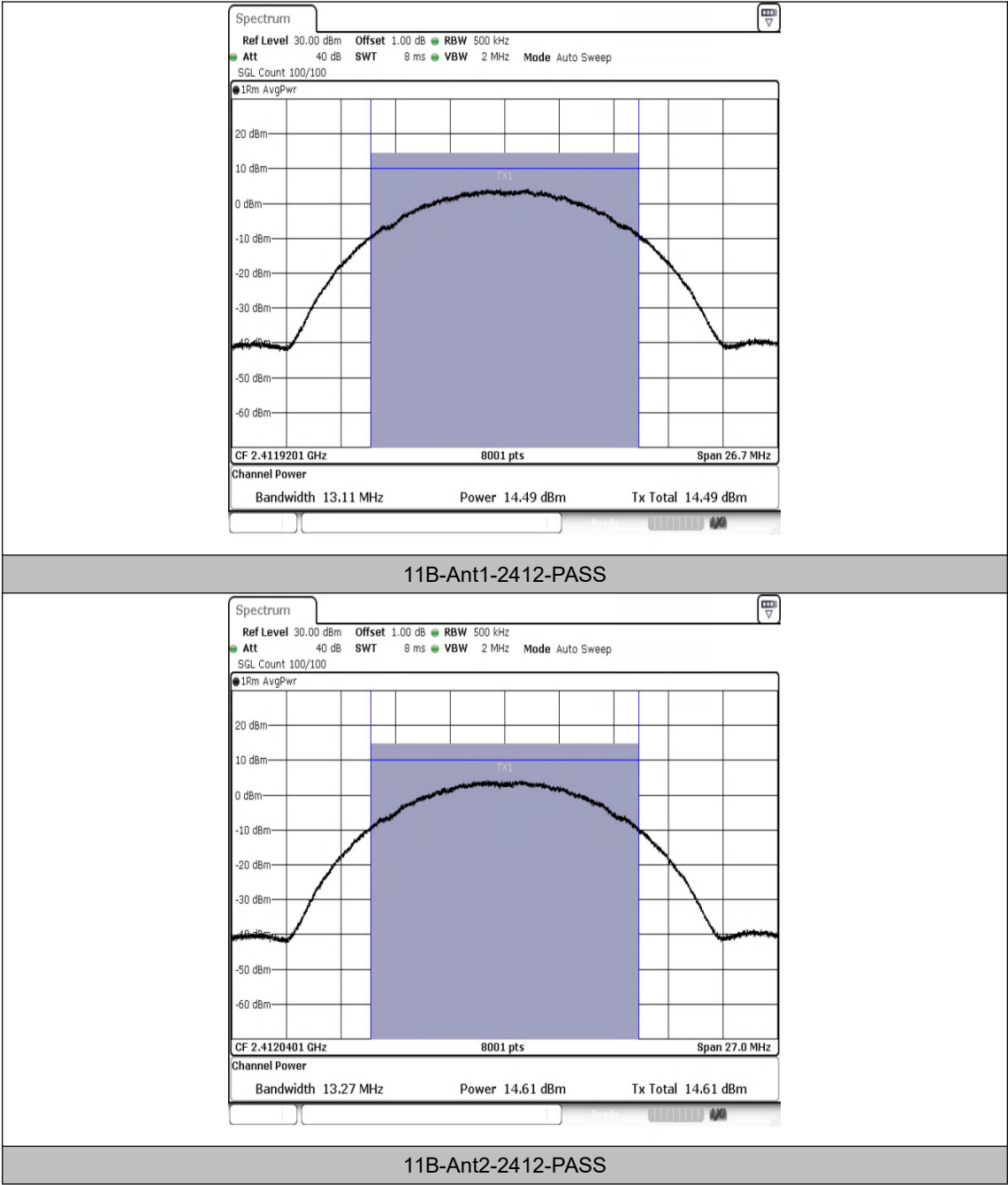
11AX20MIMO	Ant0	2462	NA	12.88	100.00	0.00	12.88	≤30.00	PASS
11AX20MIMO	Ant1	2462	NA	12.90	100.00	0.00	12.90	≤30.00	PASS
11AX20MIMO	total	2462	---	---	---	---	15.90	≤30.00	PASS
11AX40MIMO	Ant0	2422	NA	11.55	100.00	0.00	11.55	≤30.00	PASS
11AX40MIMO	Ant1	2422	NA	11.52	100.00	0.00	11.52	≤30.00	PASS
11AX40MIMO	total	2422	---	---	---	---	14.55	≤30.00	PASS
11AX40MIMO	Ant0	2437	NA	11.64	100.00	0.00	11.64	≤30.00	PASS
11AX40MIMO	Ant1	2437	NA	11.64	100.00	0.00	11.64	≤30.00	PASS
11AX40MIMO	total	2437	---	---	---	---	14.65	≤30.00	PASS
11AX40MIMO	Ant0	2452	NA	11.77	100.00	0.00	11.77	≤30.00	PASS
11AX40MIMO	Ant1	2452	NA	11.77	100.00	0.00	11.77	≤30.00	PASS
11AX40MIMO	total	2452	---	---	---	---	14.78	≤30.00	PASS

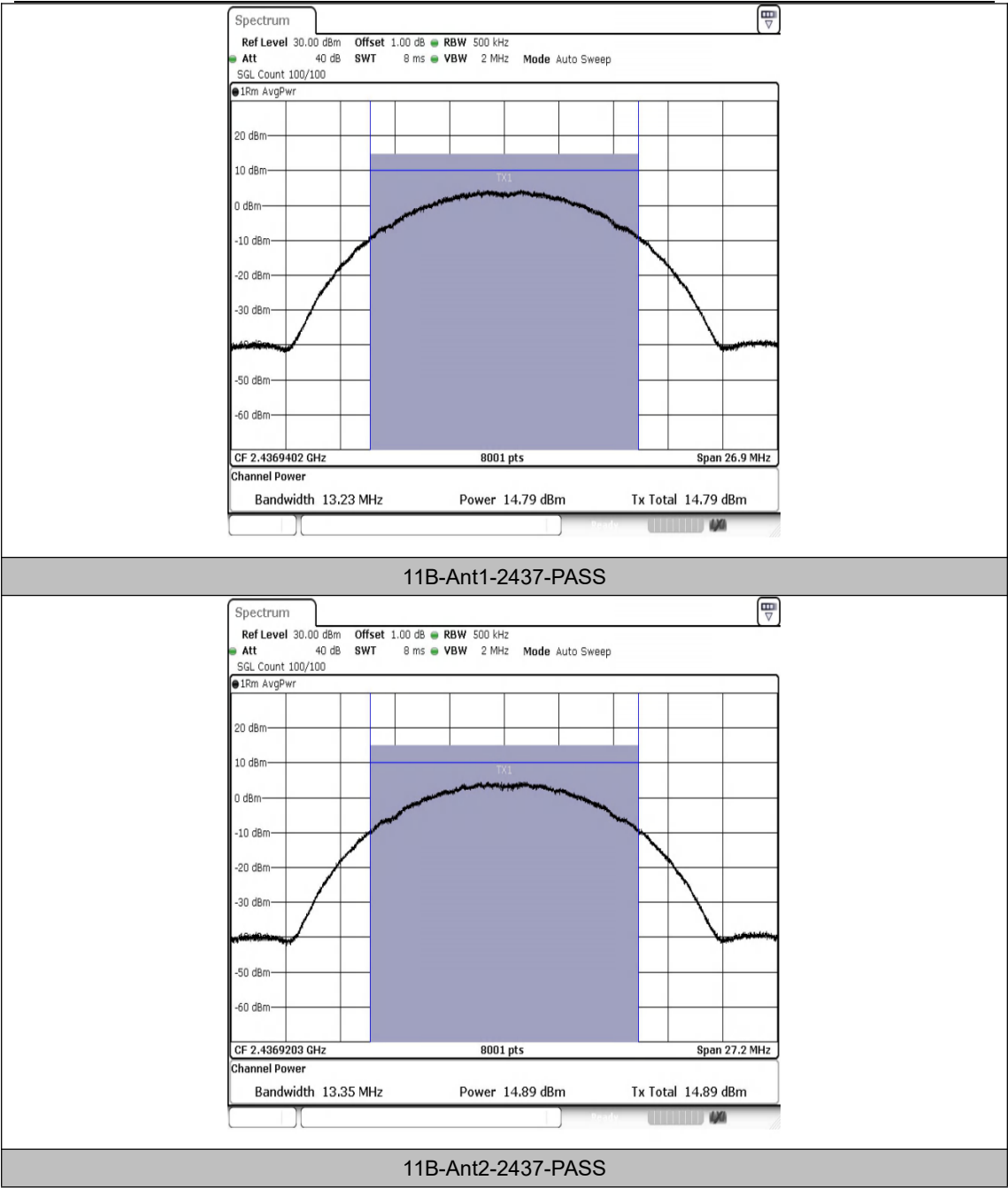
Note: 1. The cable loss are compensated in the graph

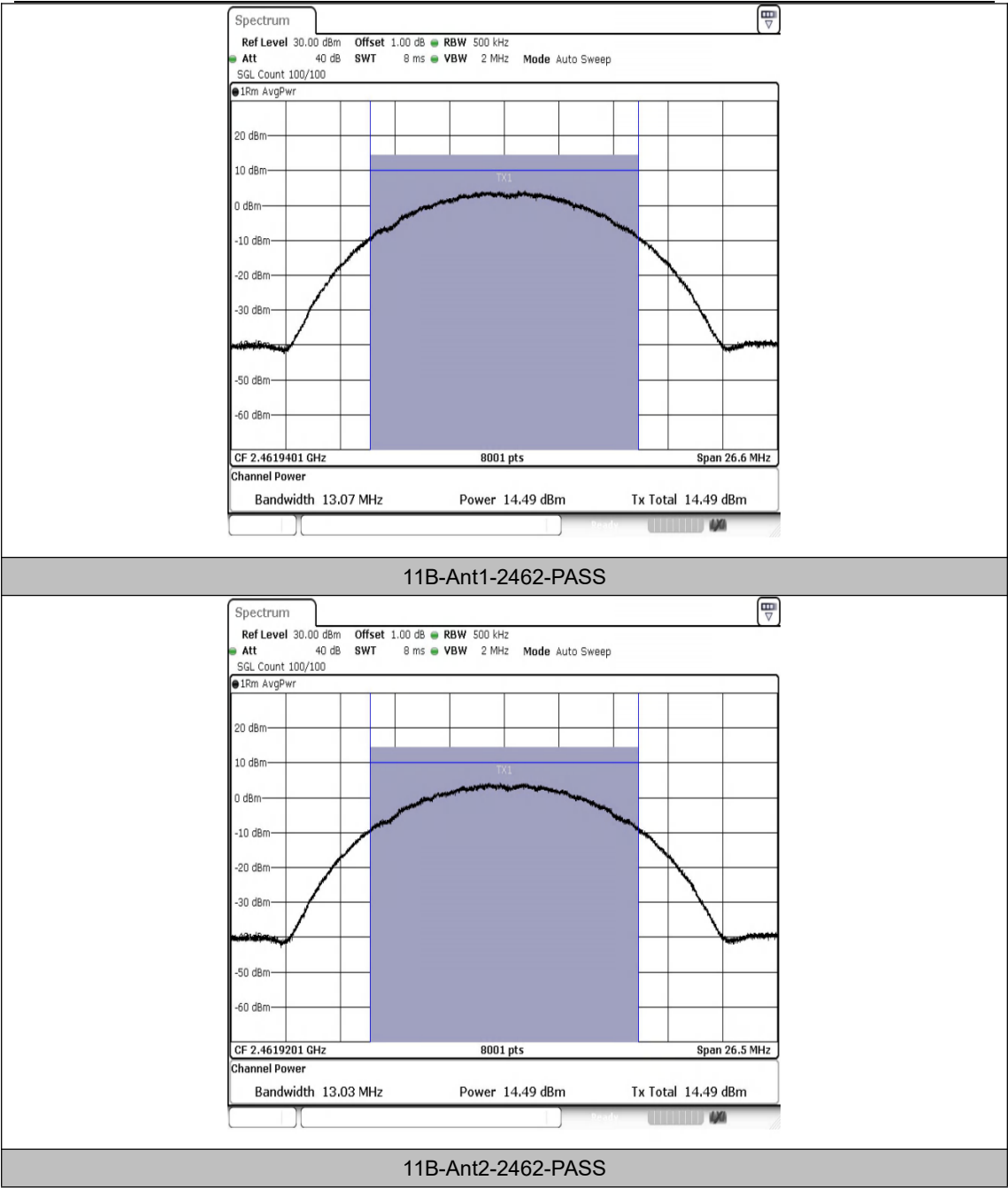
2. For 5.2G: As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi=5.31≤6dBi, so limit=30dBm.

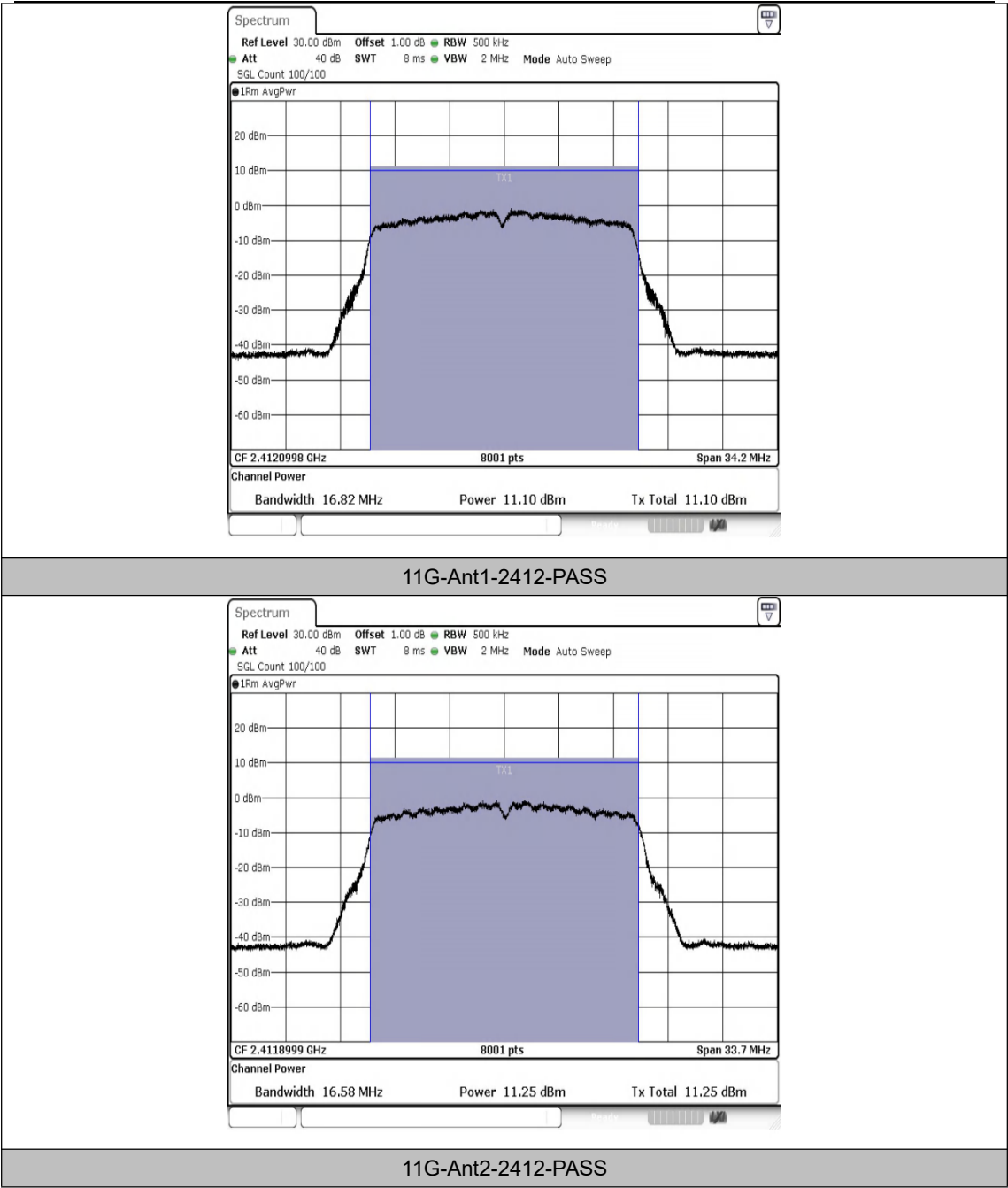
3. MIMO= $10 * \text{LOG}((10^{Ant0/10} + 10^{Ant1/10}))$

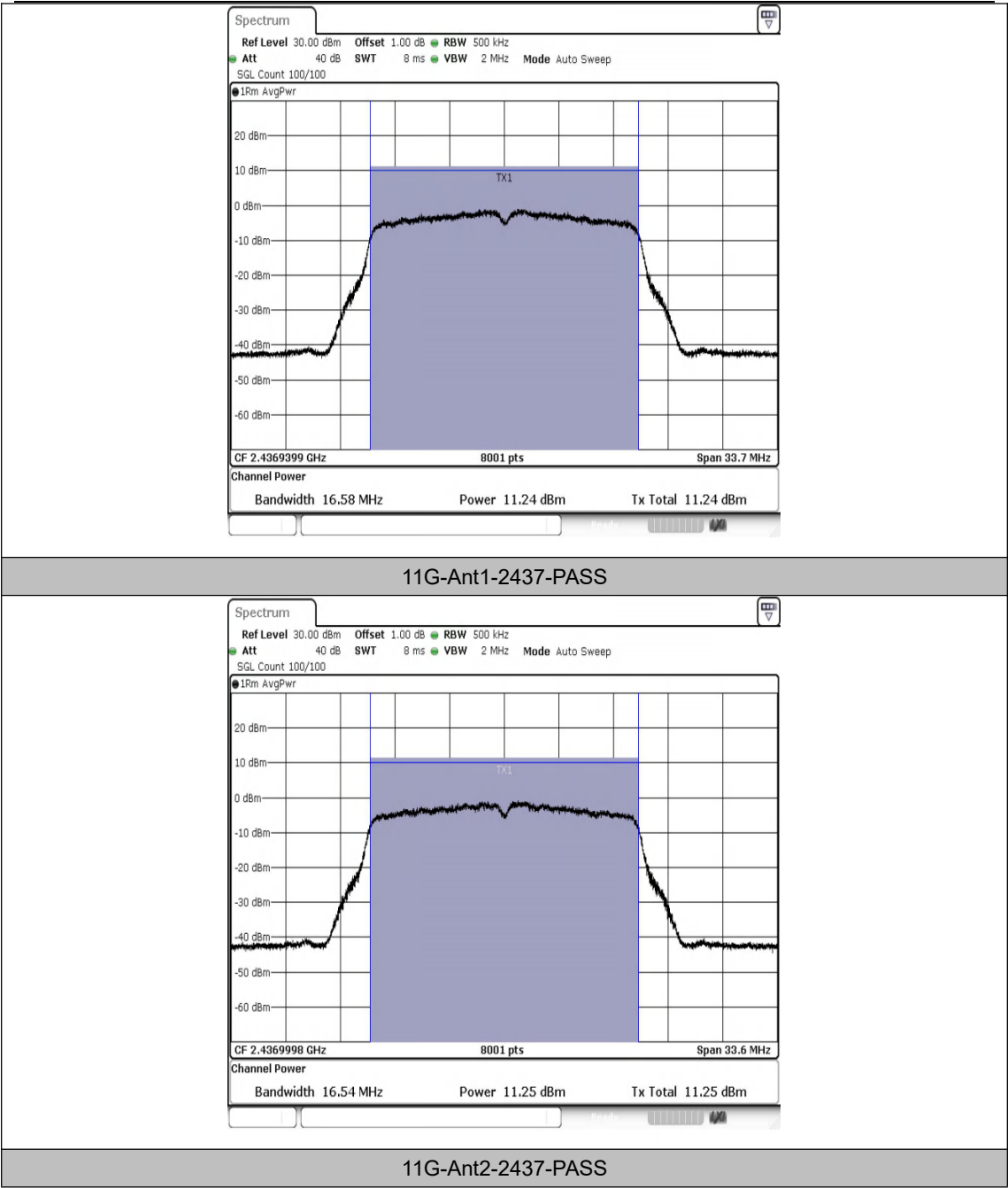
Test Graphs Average

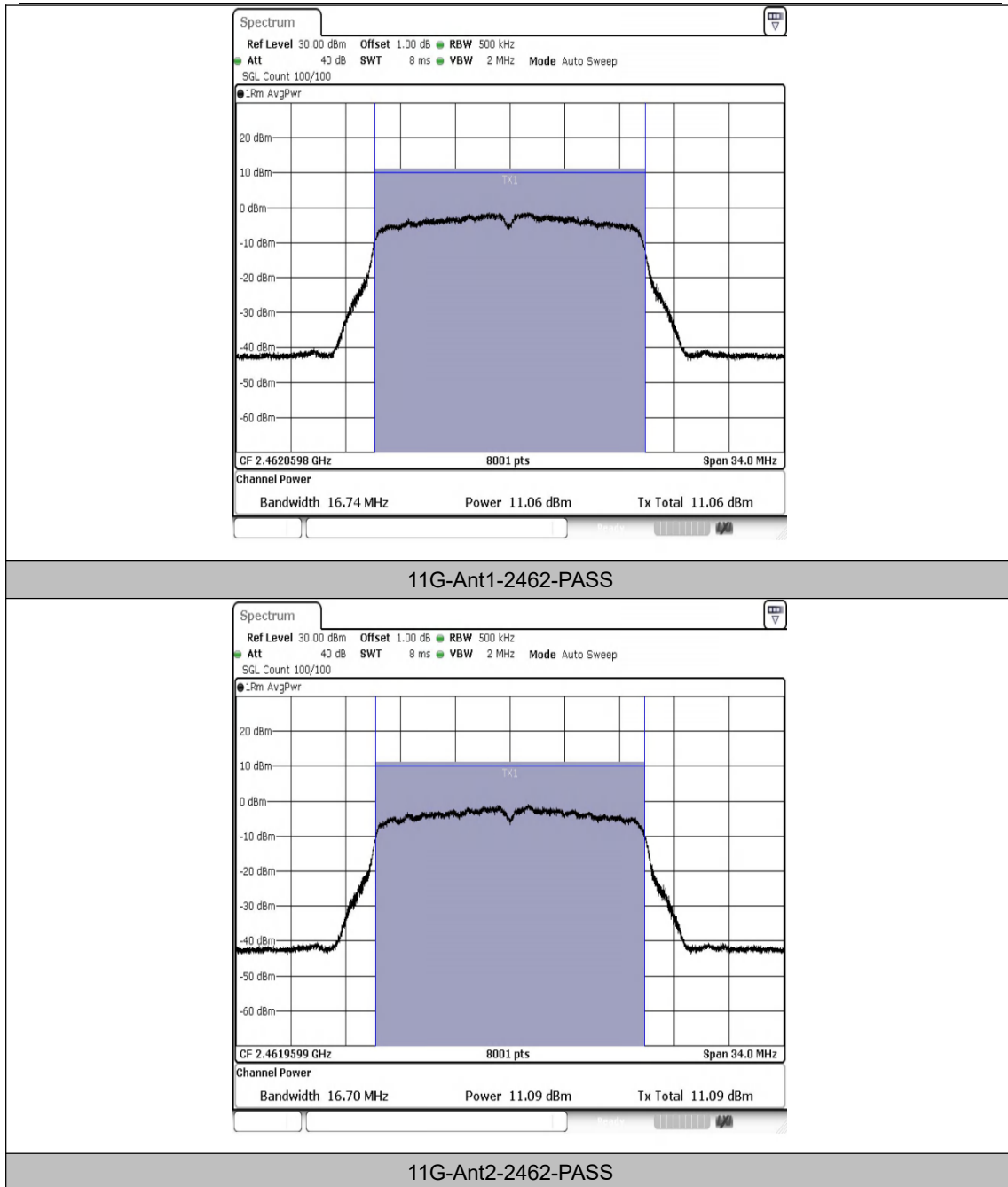








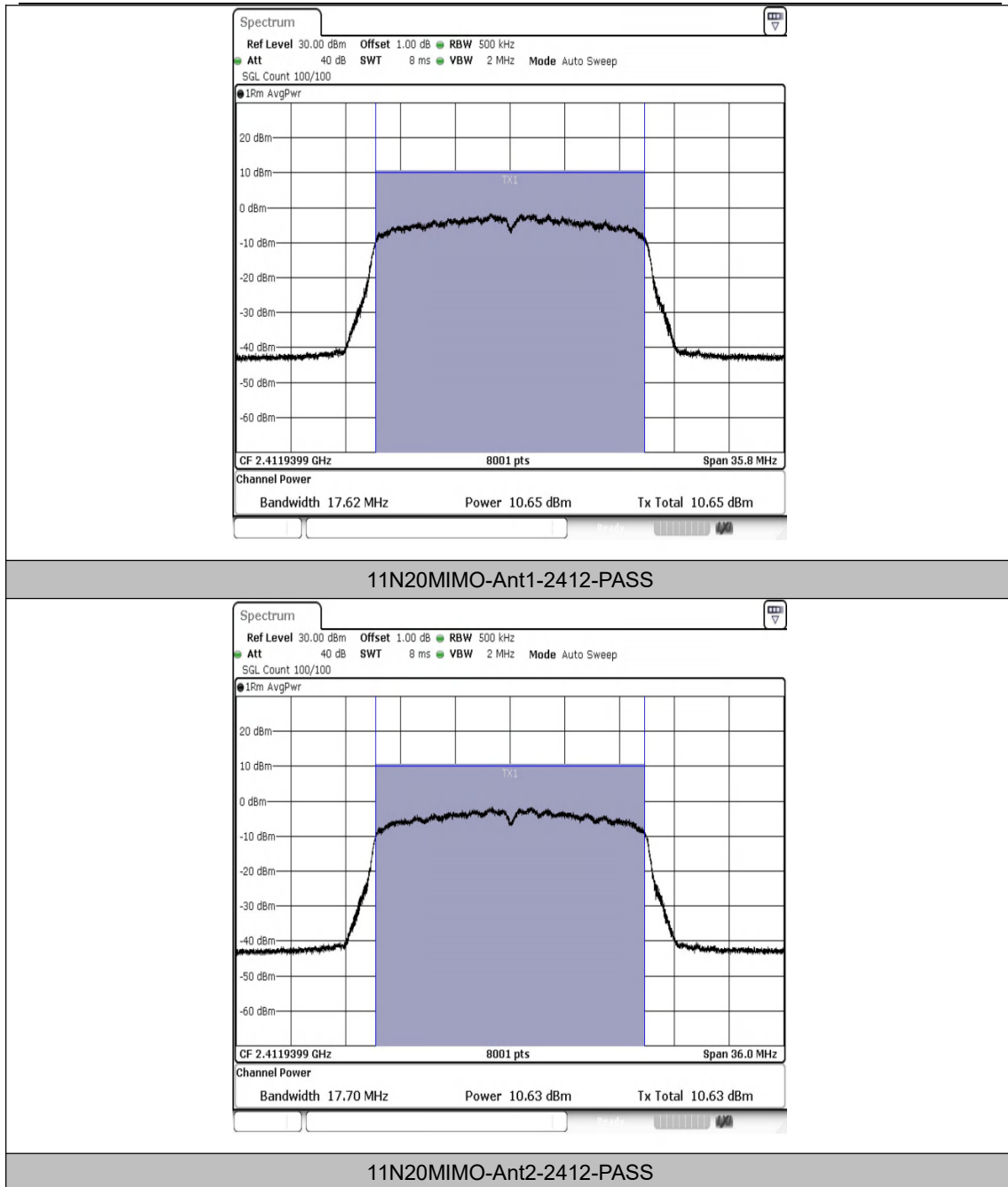




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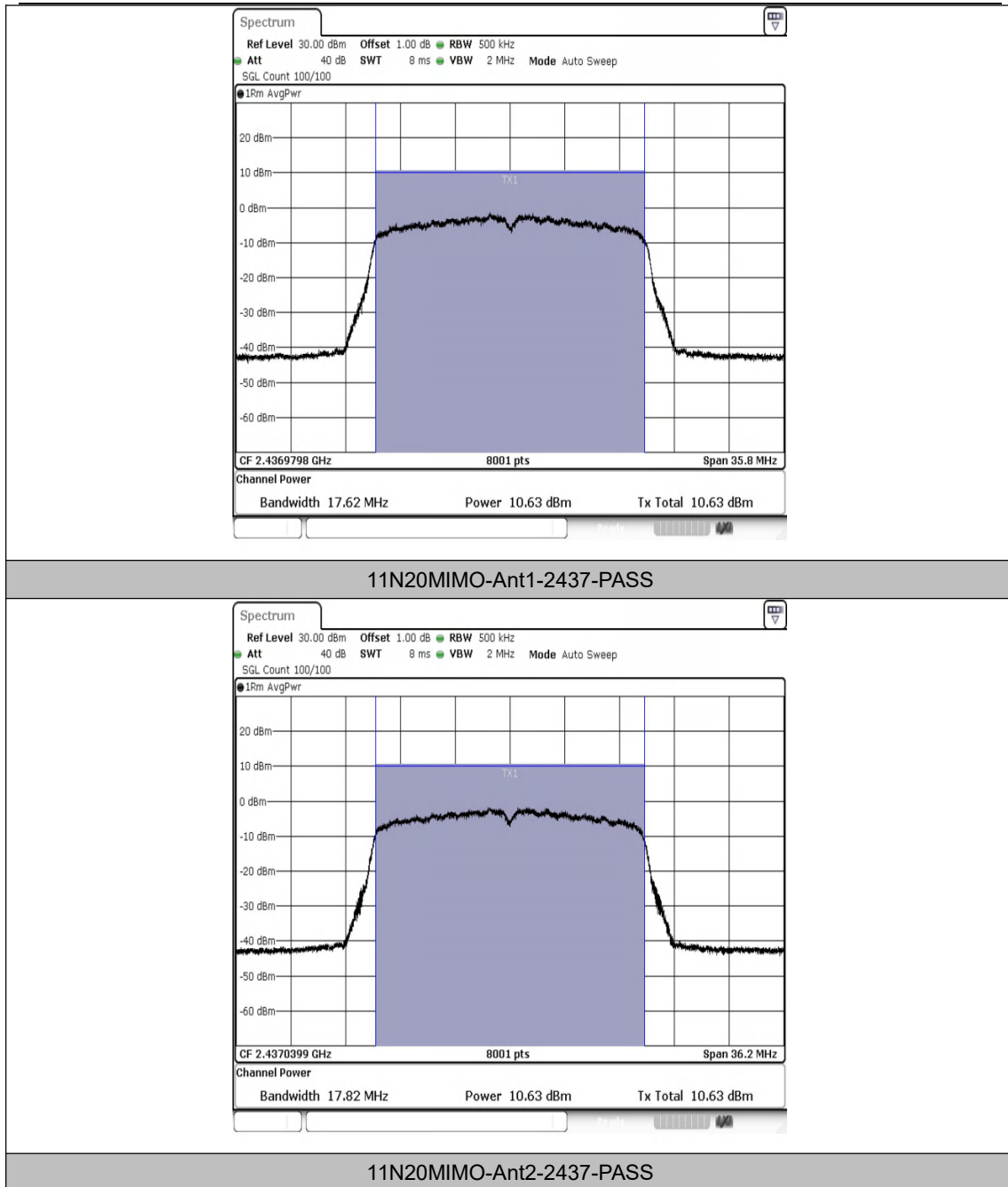
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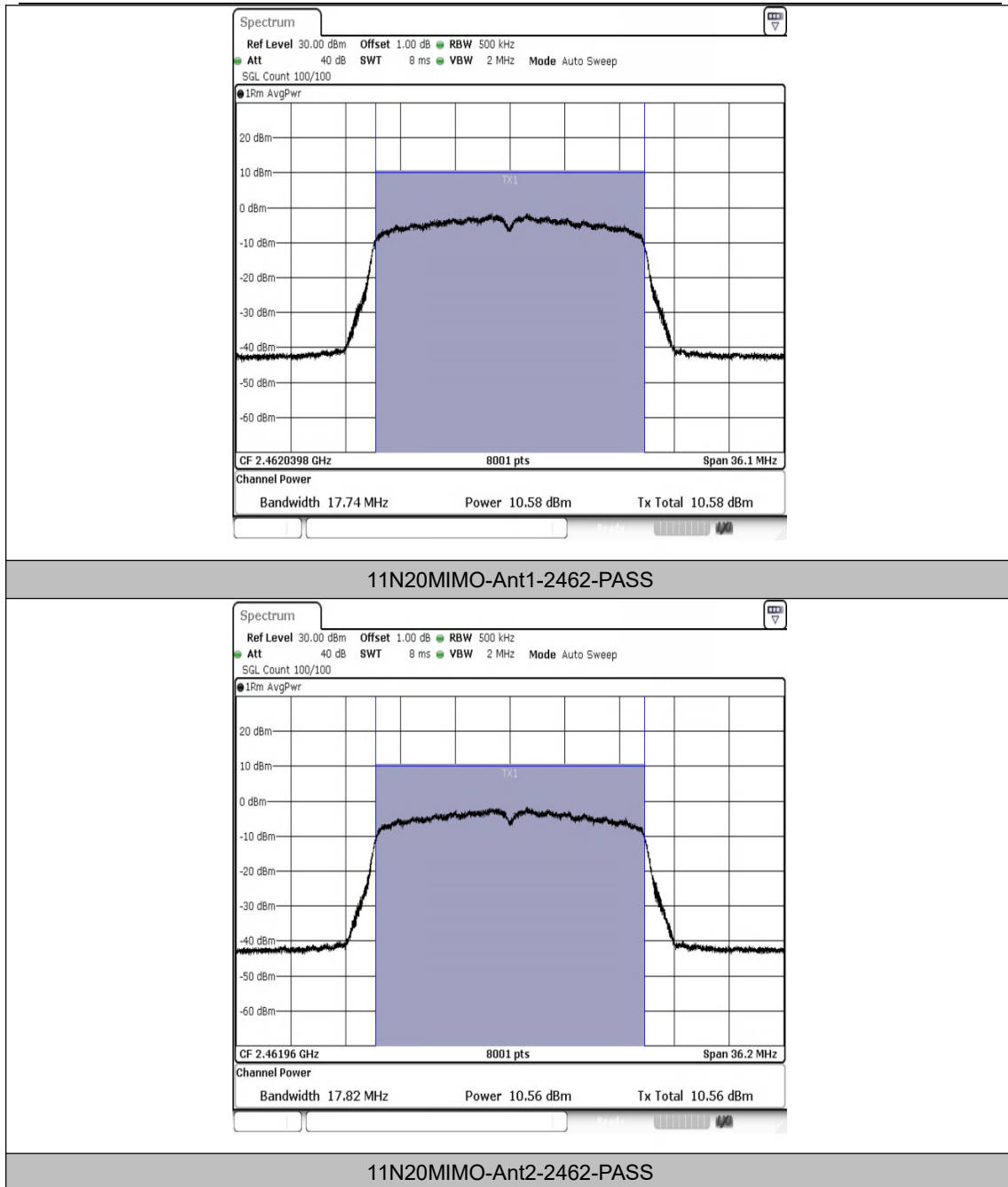


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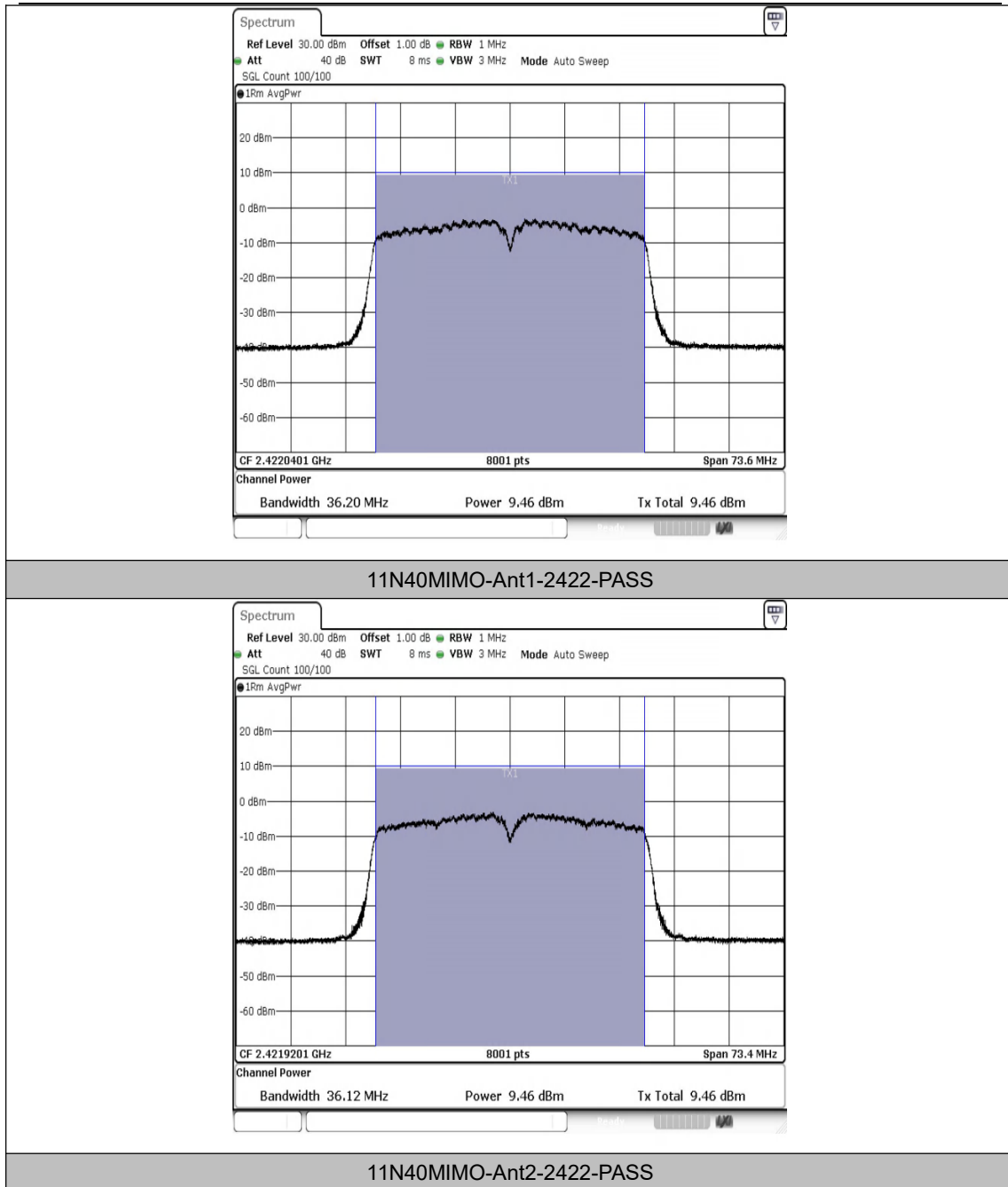




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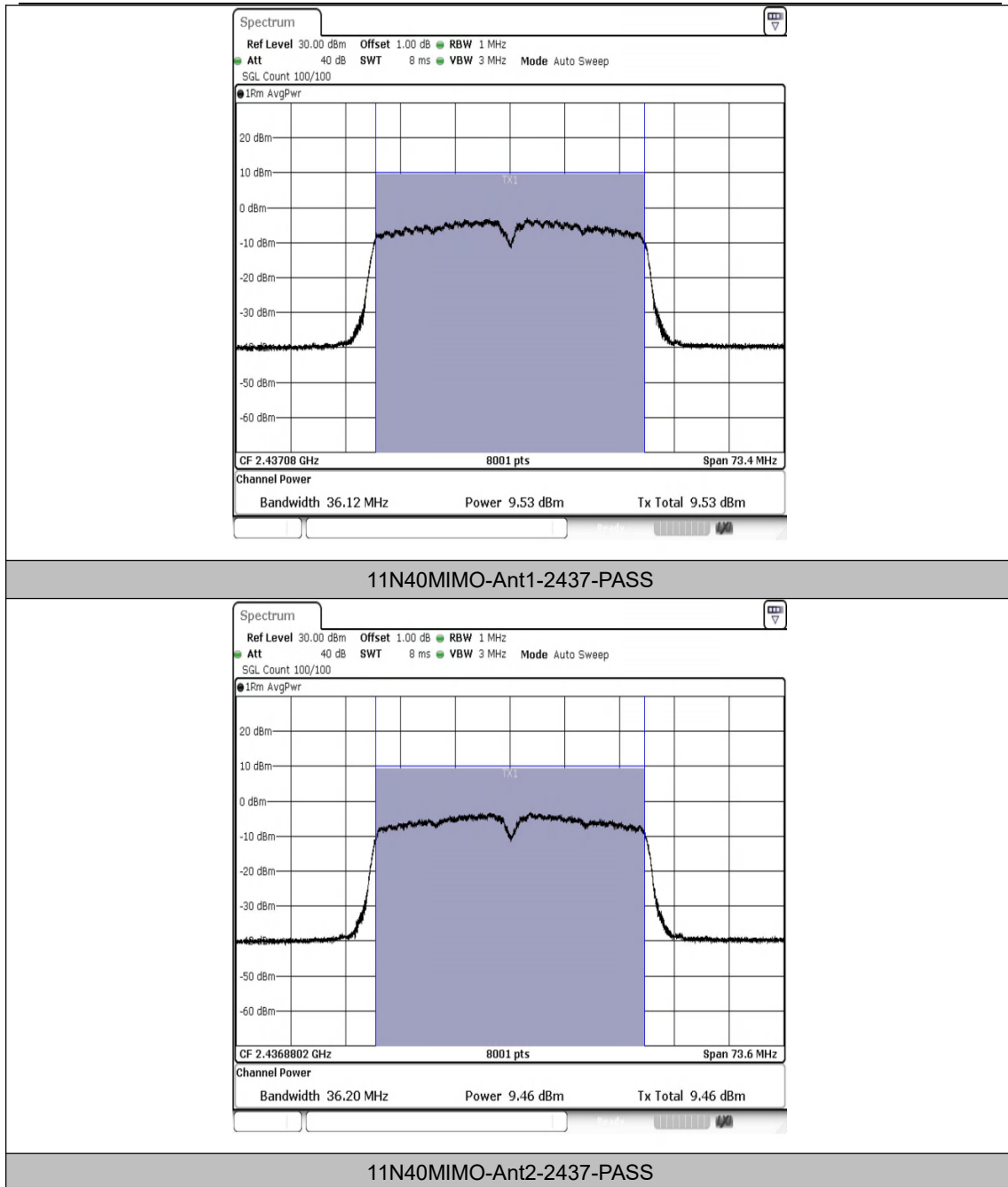
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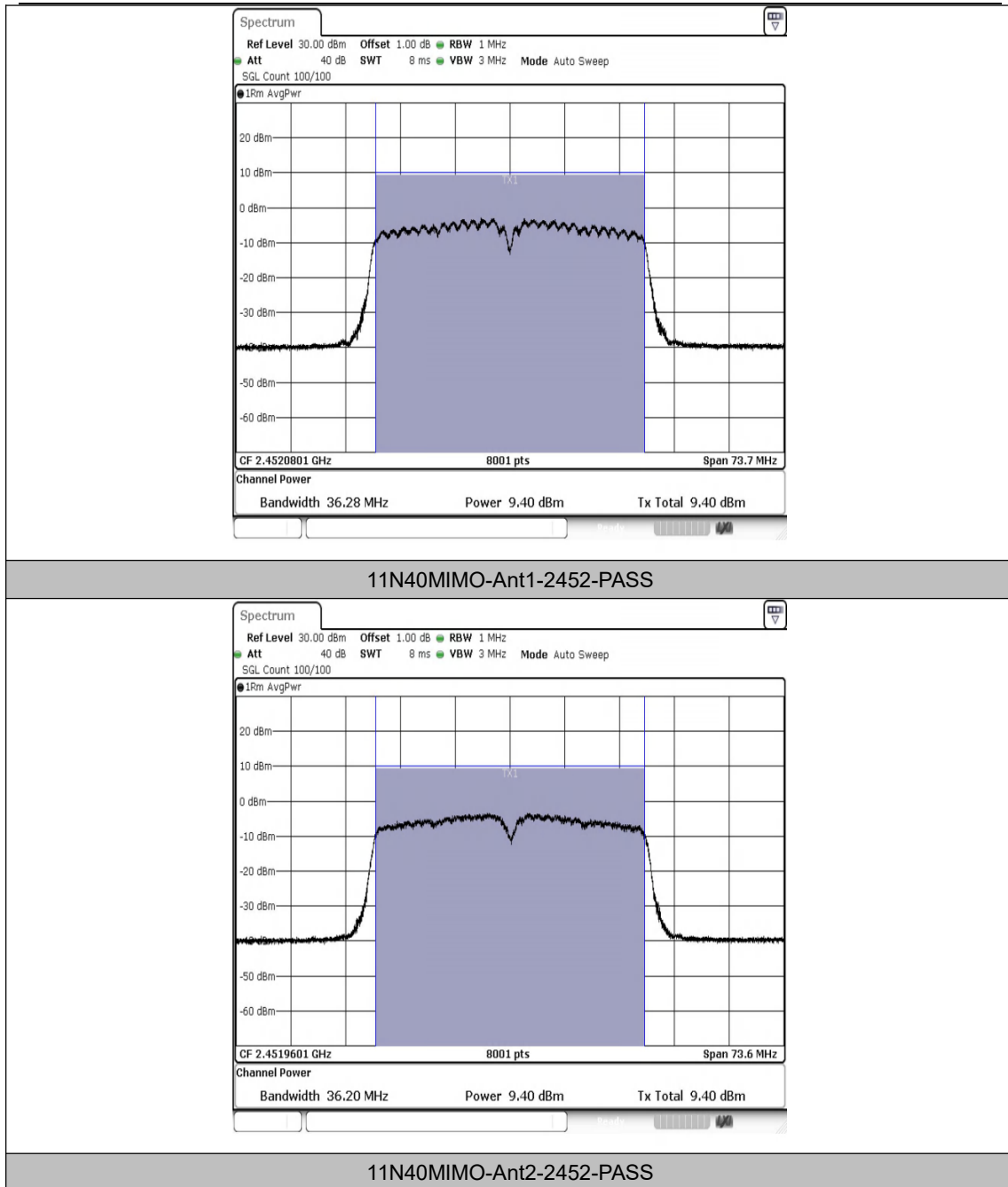
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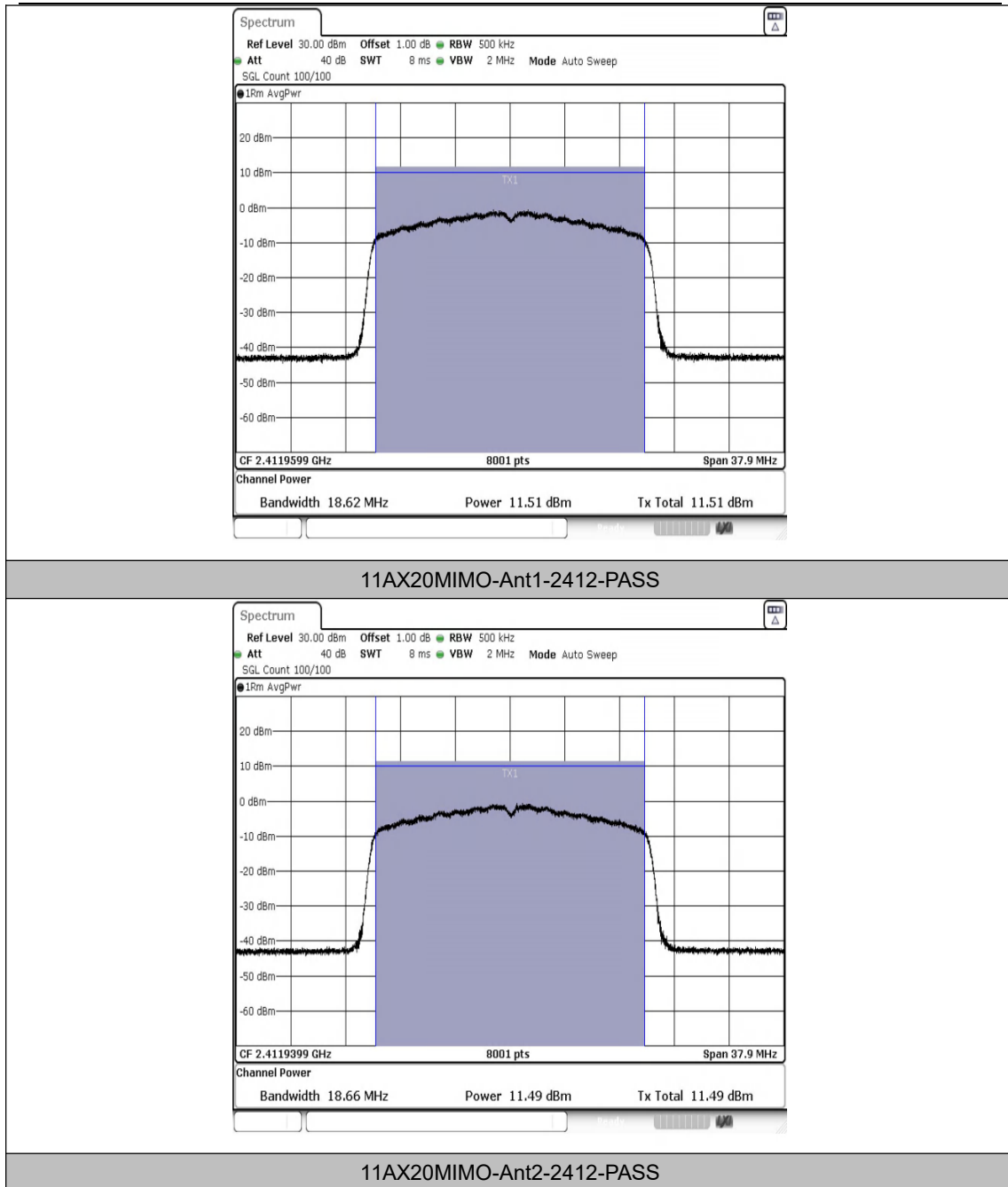
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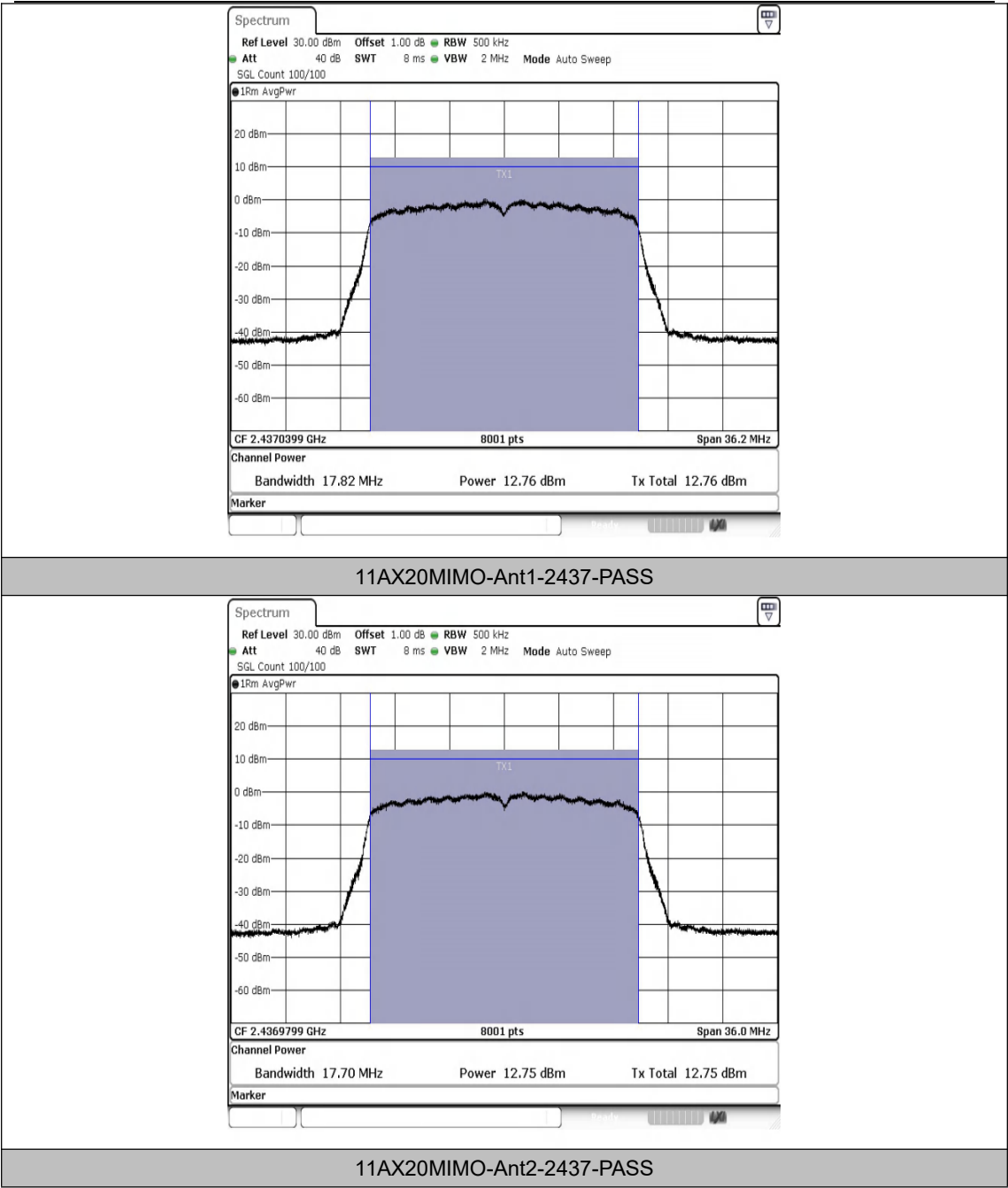
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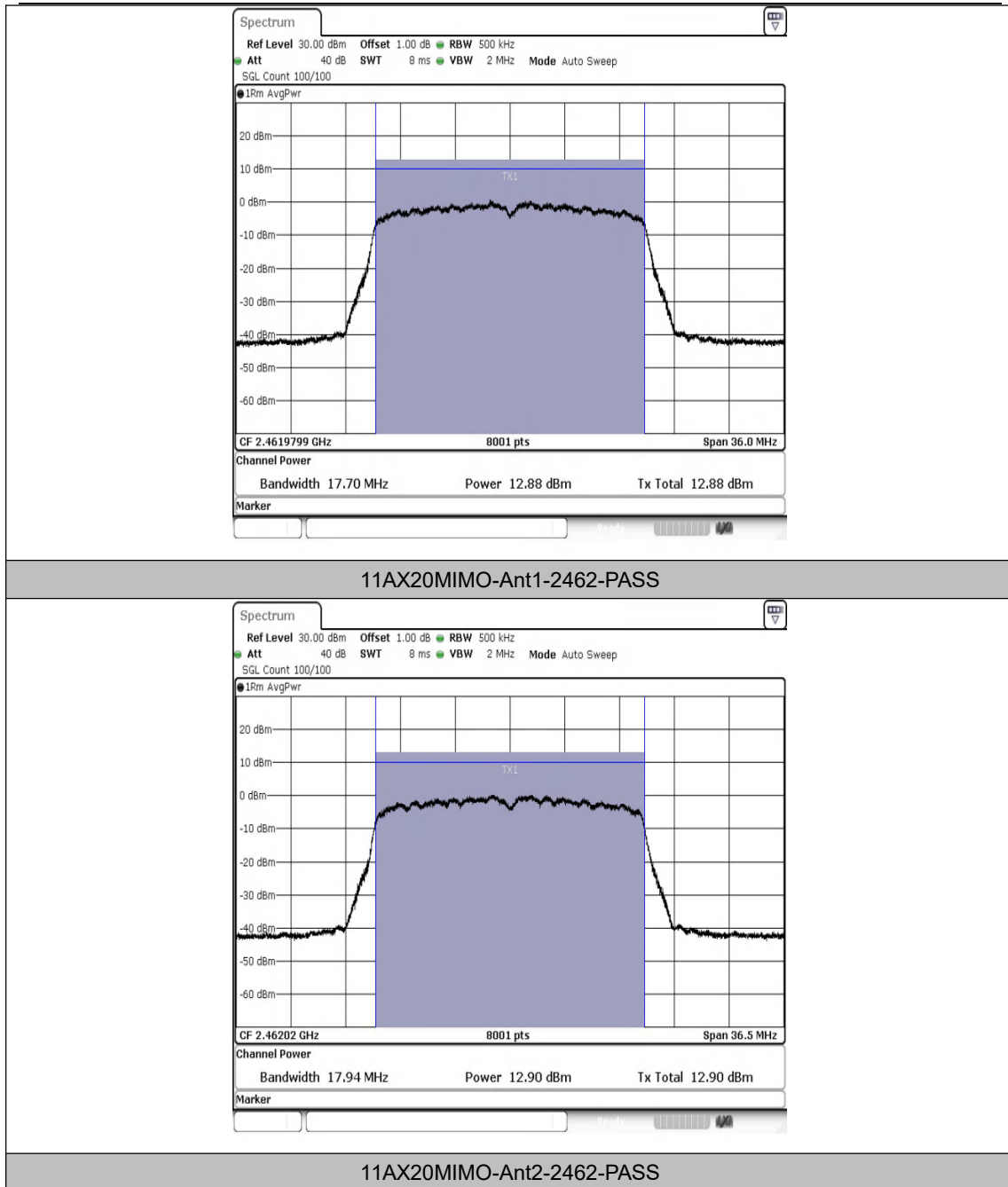


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