

Appendix Test Data

Report No:	1819C40042912501	Test Sample NO:	1-2-2
Start Test Date:	2024.9.14	Finish Test Date:	2024.9.14
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	22.6℃	Relative Humidity:	53%
Pressure:	101 kPa		

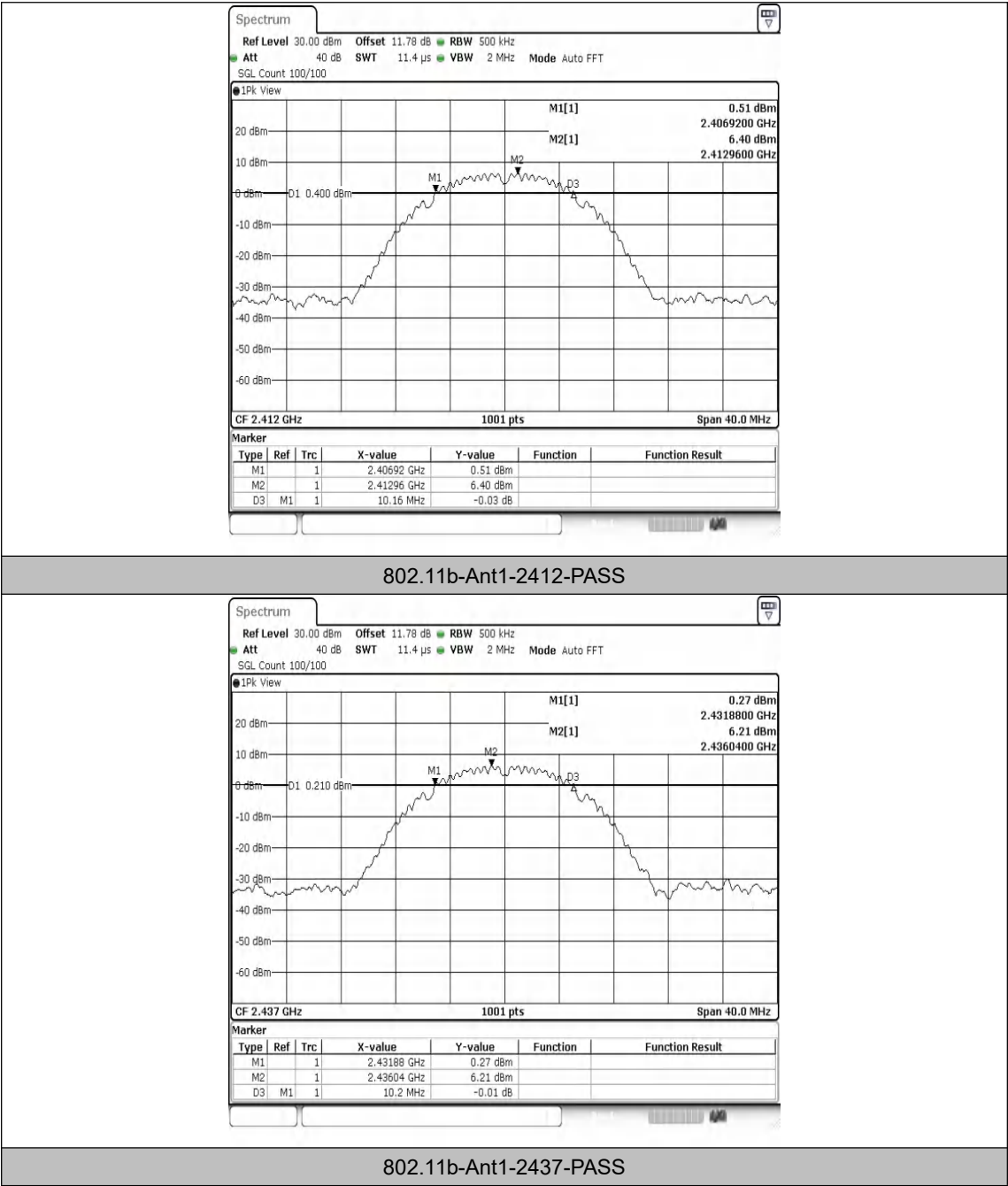
Appendix A: DTS Bandwidth

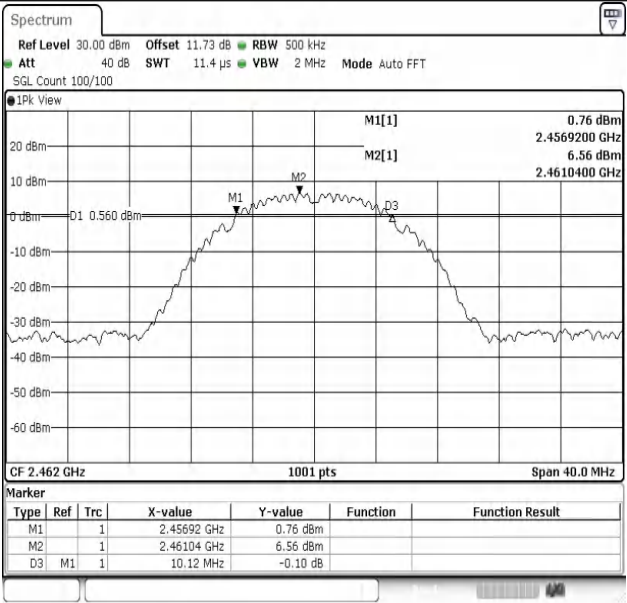
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	10.16	2406.92	2417.08	0.5	PASS
802.11b	Ant1	2437	10.20	2431.88	2442.08	0.5	PASS
802.11b	Ant1	2462	10.12	2456.92	2467.04	0.5	PASS
802.11g	Ant1	2412	15.96	2404.04	2420.00	0.5	PASS
802.11g	Ant1	2437	16.04	2428.96	2445.00	0.5	PASS
802.11g	Ant1	2462	15.08	2454.48	2469.56	0.5	PASS
802.11n (HT20)	Ant1	2412	16.96	2403.76	2420.72	0.5	PASS
802.11n (HT20)	Ant1	2437	16.84	2428.48	2445.32	0.5	PASS
802.11n (HT20)	Ant1	2462	16.64	2453.88	2470.52	0.5	PASS

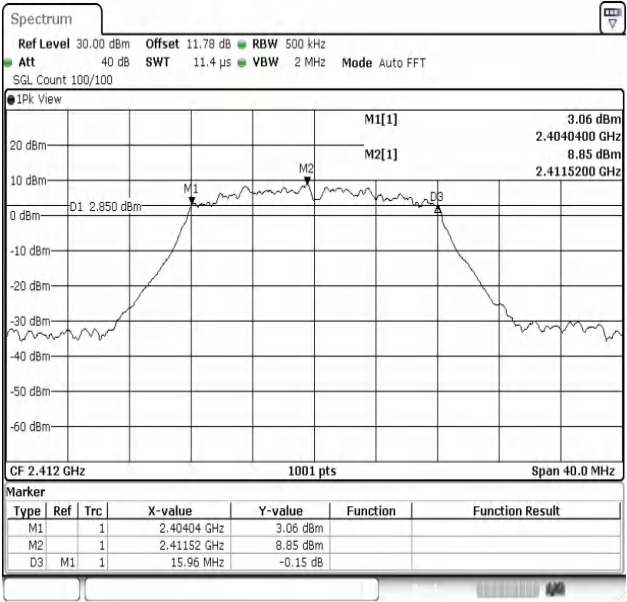


Test Graphs



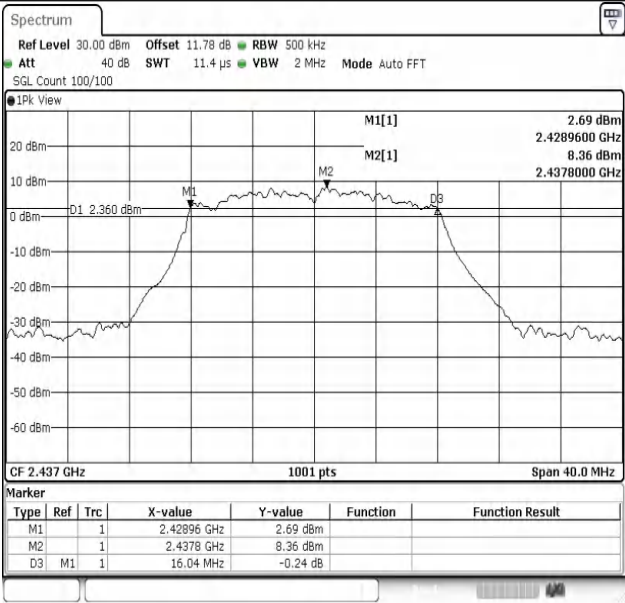


802.11b-Ant1-2462-PASS

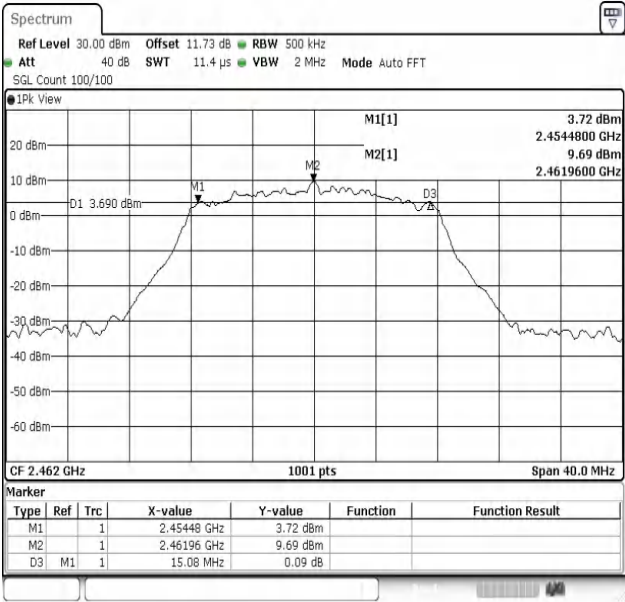


802.11g-Ant1-2412-PASS



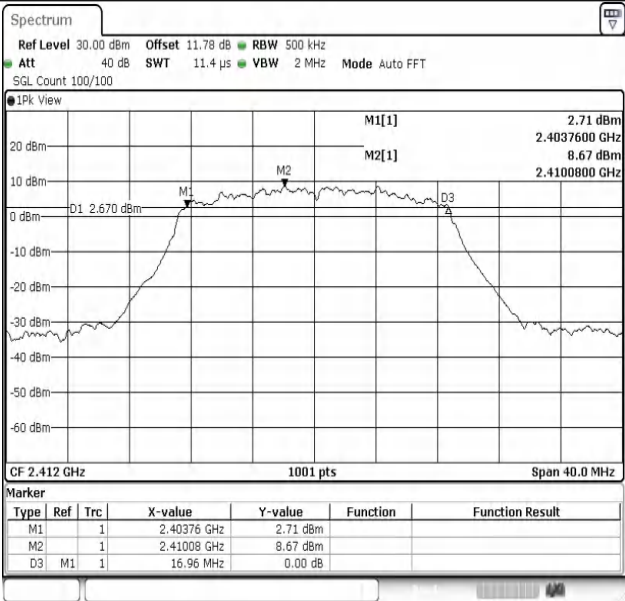


802.11g-Ant1-2437-PASS

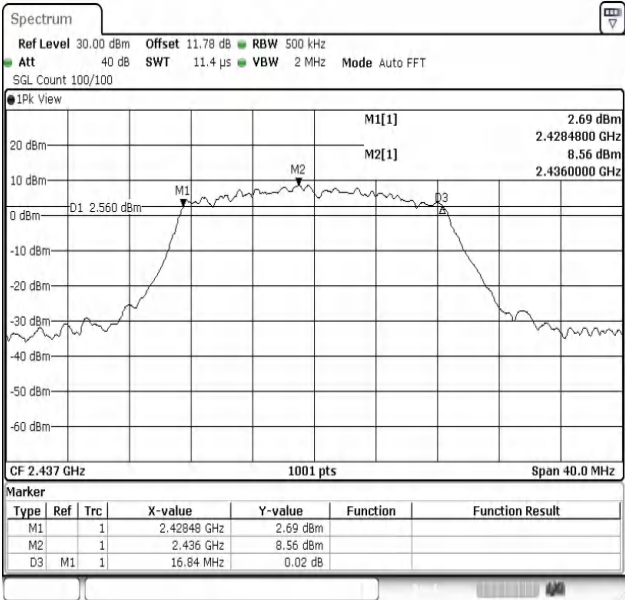


802.11g-Ant1-2462-PASS



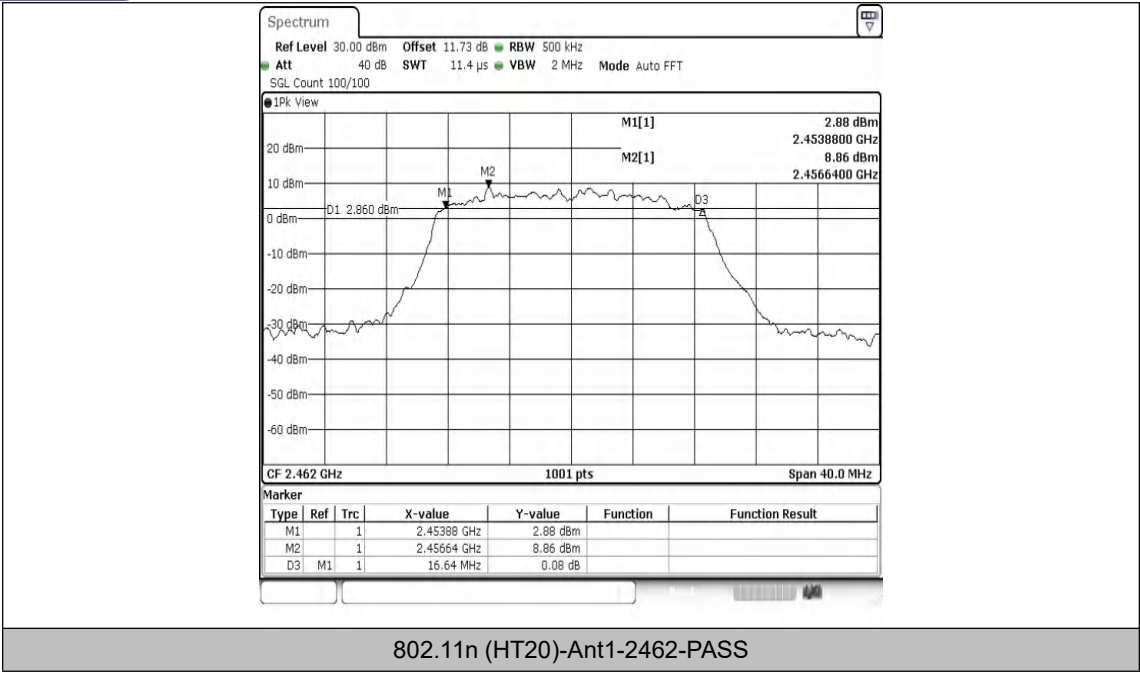


802.11n (HT20)-Ant1-2412-PASS



802.11n (HT20)-Ant1-2437-PASS





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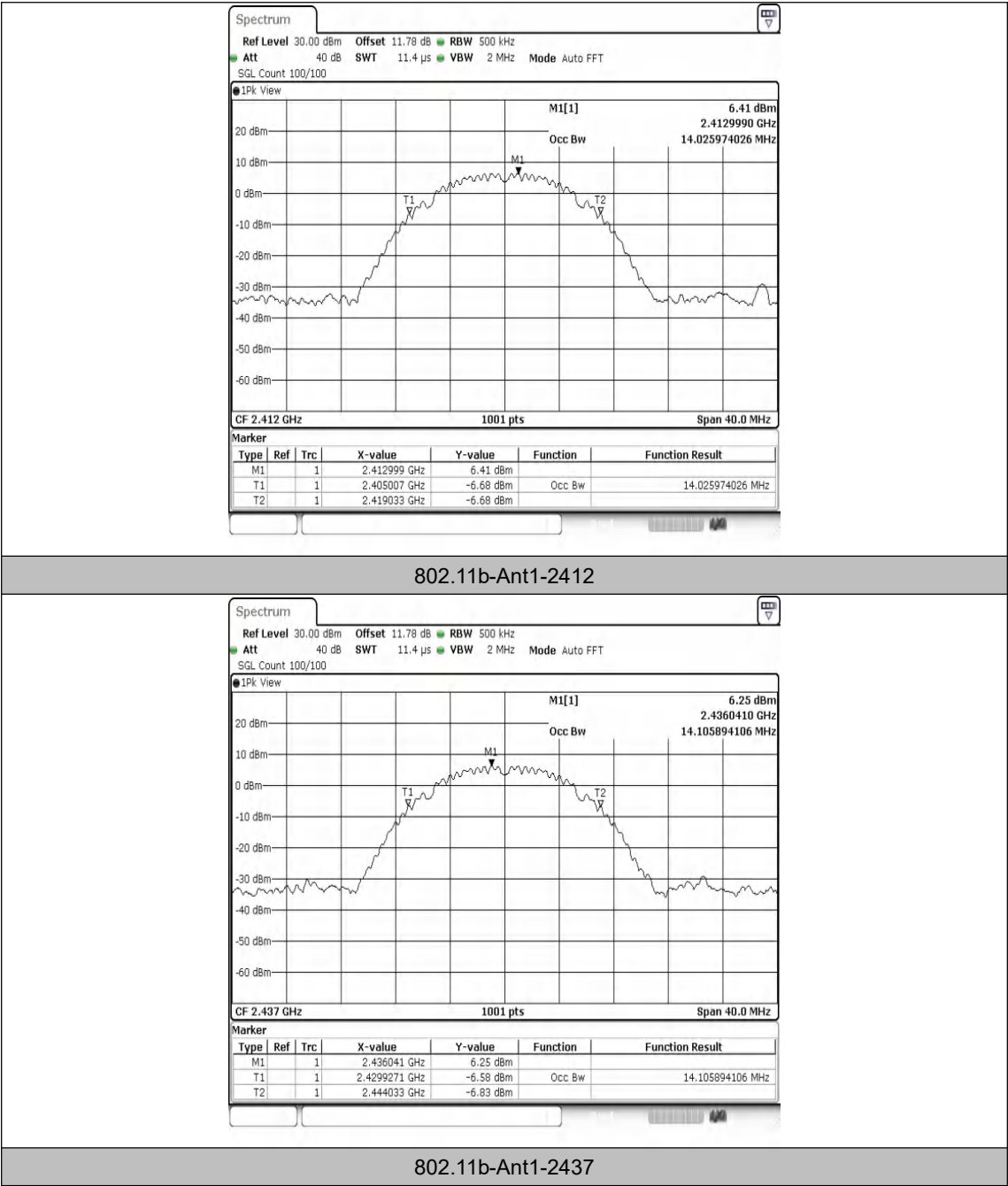
Appendix B: Occupied Channel Bandwidth

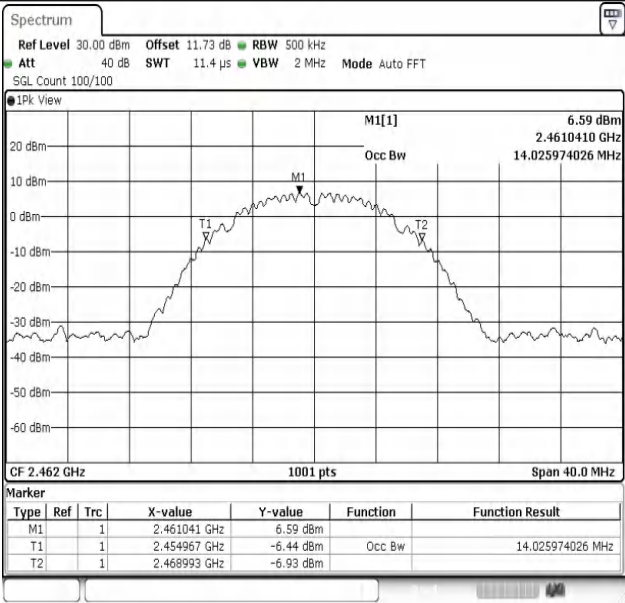
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	14.026	2405.0070	2419.0330	---	---
802.11b	Ant1	2437	14.106	2429.9271	2444.0330	---	---
802.11b	Ant1	2462	14.026	2454.9670	2468.9930	---	---
802.11g	Ant1	2412	16.663	2403.6883	2420.3516	---	---
802.11g	Ant1	2437	16.783	2428.6883	2445.4715	---	---
802.11g	Ant1	2462	16.583	2453.6484	2470.2318	---	---
802.11n (HT20)	Ant1	2412	17.822	2402.9690	2420.7912	---	---
802.11n (HT20)	Ant1	2437	17.662	2428.3287	2445.9910	---	---
802.11n (HT20)	Ant1	2462	17.622	2453.2088	2470.8312	---	---

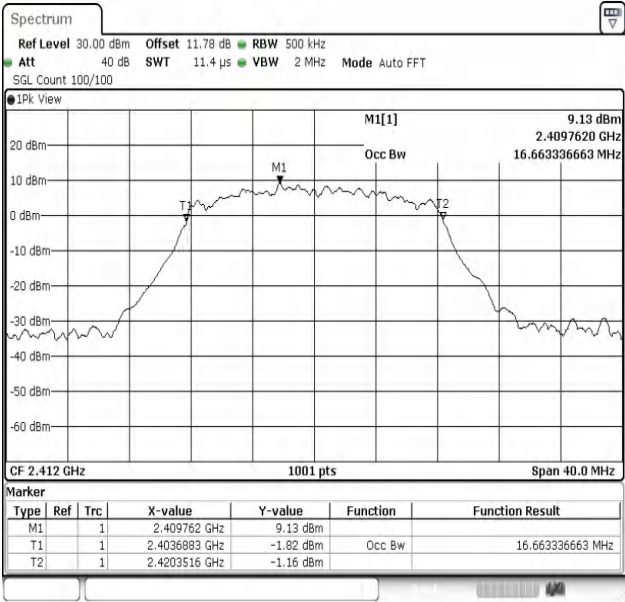


Test Graphs



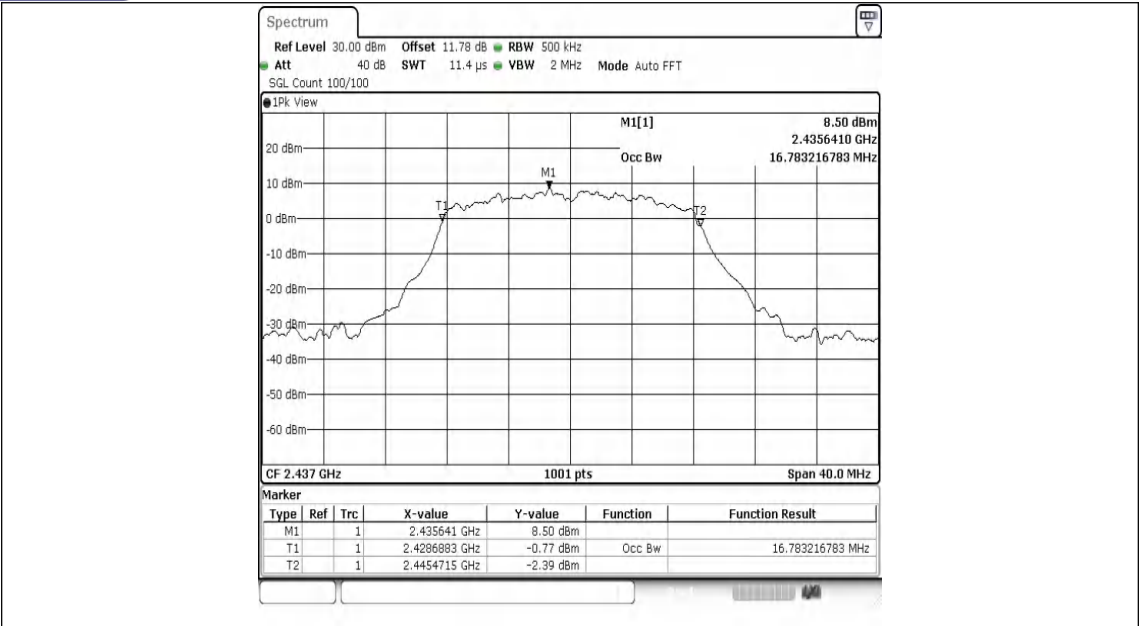


802.11b-Ant1-2462

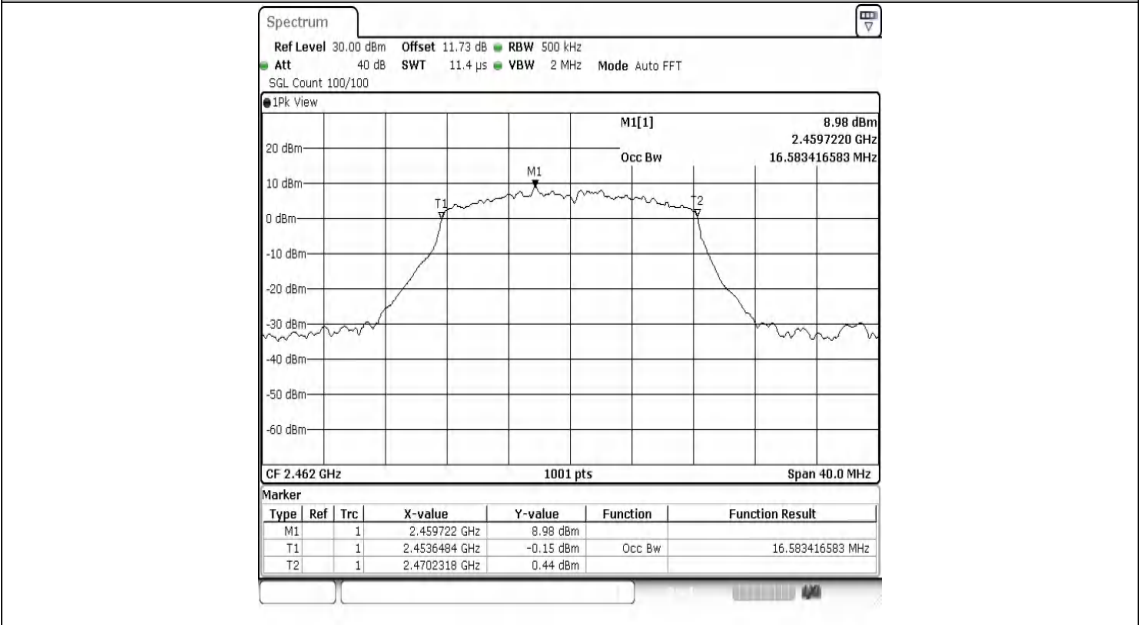


802.11g-Ant1-2412



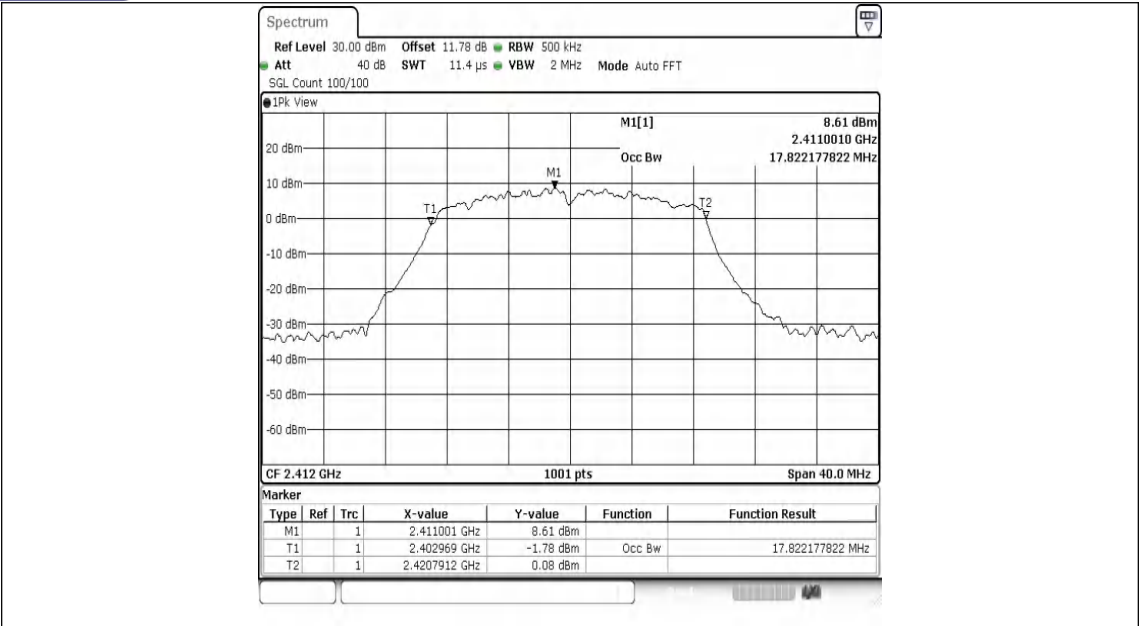


802.11g-Ant1-2437

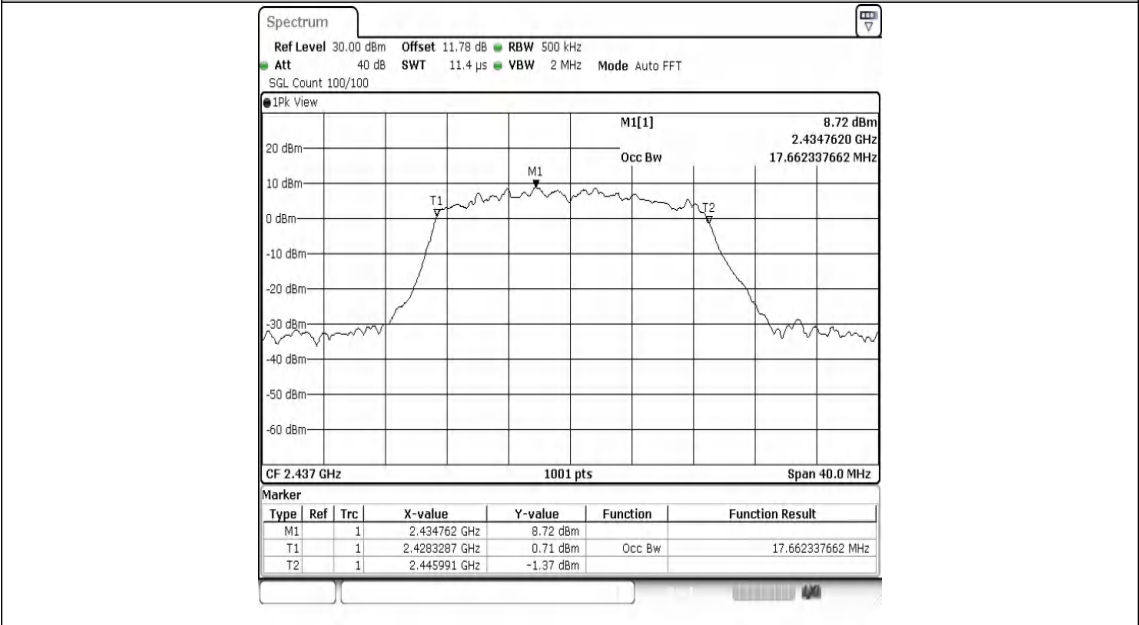


802.11g-Ant1-2462



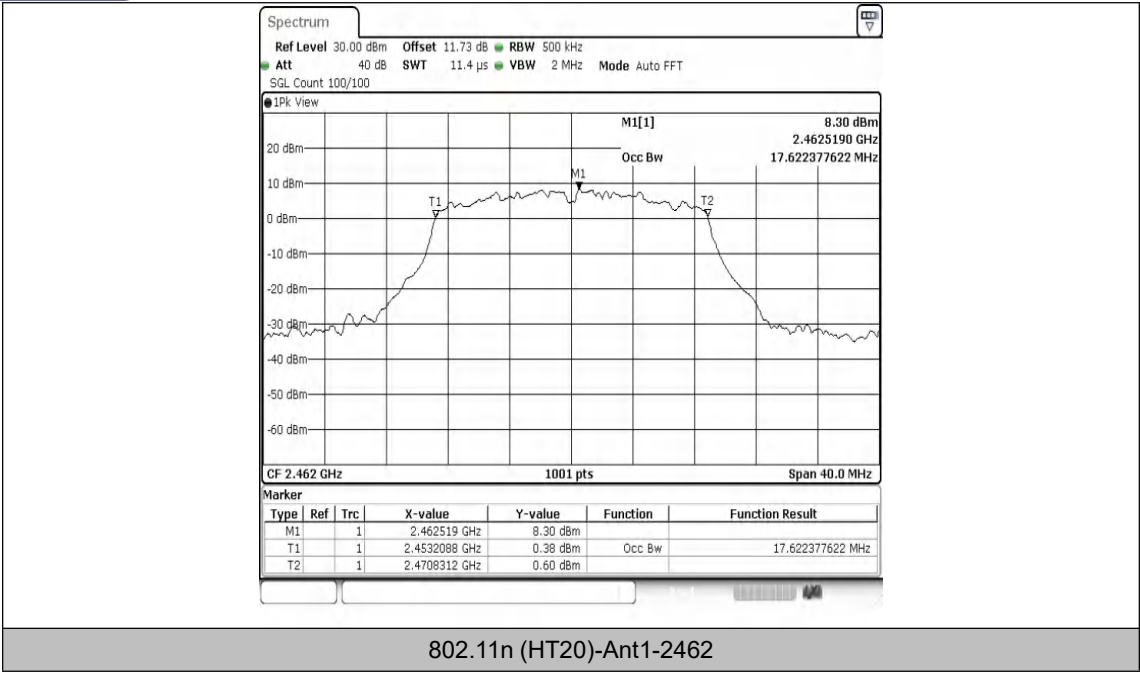


802.11n (HT20)-Ant1-2412



802.11n (HT20)-Ant1-2437





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Appendix C: Maximum conducted output power

Test Result Average

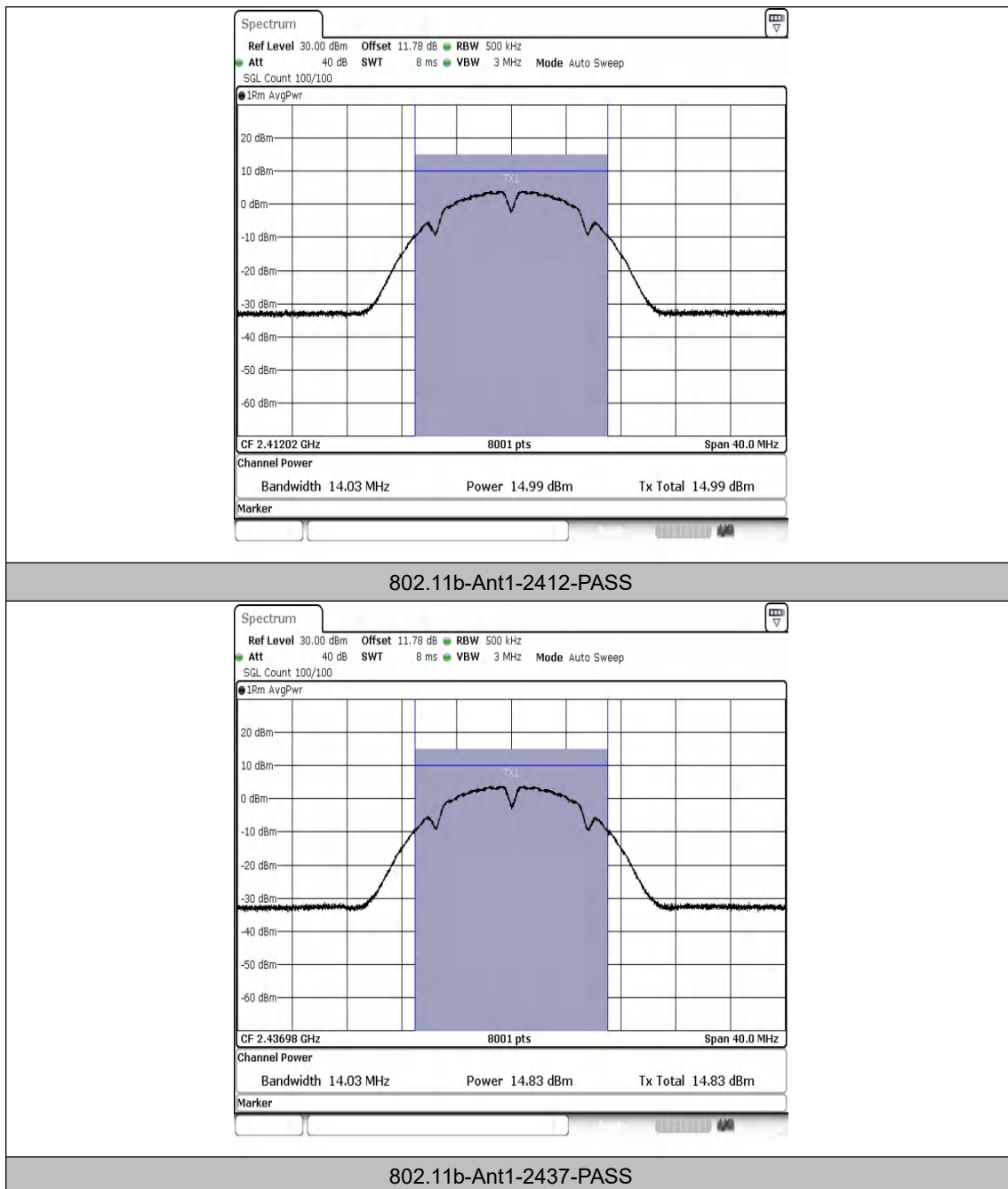
Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	14.99	100.00	0.00	14.99	≤30.00	PASS
802.11b	Ant1	2437	14.83	100.00	0.00	14.83	≤30.00	PASS
802.11b	Ant1	2462	15.08	100.00	0.00	15.08	≤30.00	PASS
802.11g	Ant1	2412	14.53	80.24	0.96	15.49	≤30.00	PASS
802.11g	Ant1	2437	14.32	79.84	0.98	15.30	≤30.00	PASS
802.11g	Ant1	2462	14.20	80.24	0.96	15.16	≤30.00	PASS
802.11n (HT20)	Ant1	2412	14.83	79.08	1.02	15.85	≤30.00	PASS
802.11n (HT20)	Ant1	2437	14.74	79.08	1.02	15.76	≤30.00	PASS
802.11n (HT20)	Ant1	2462	14.61	79.08	1.02	15.63	≤30.00	PASS

Note:

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



Test Graphs Average



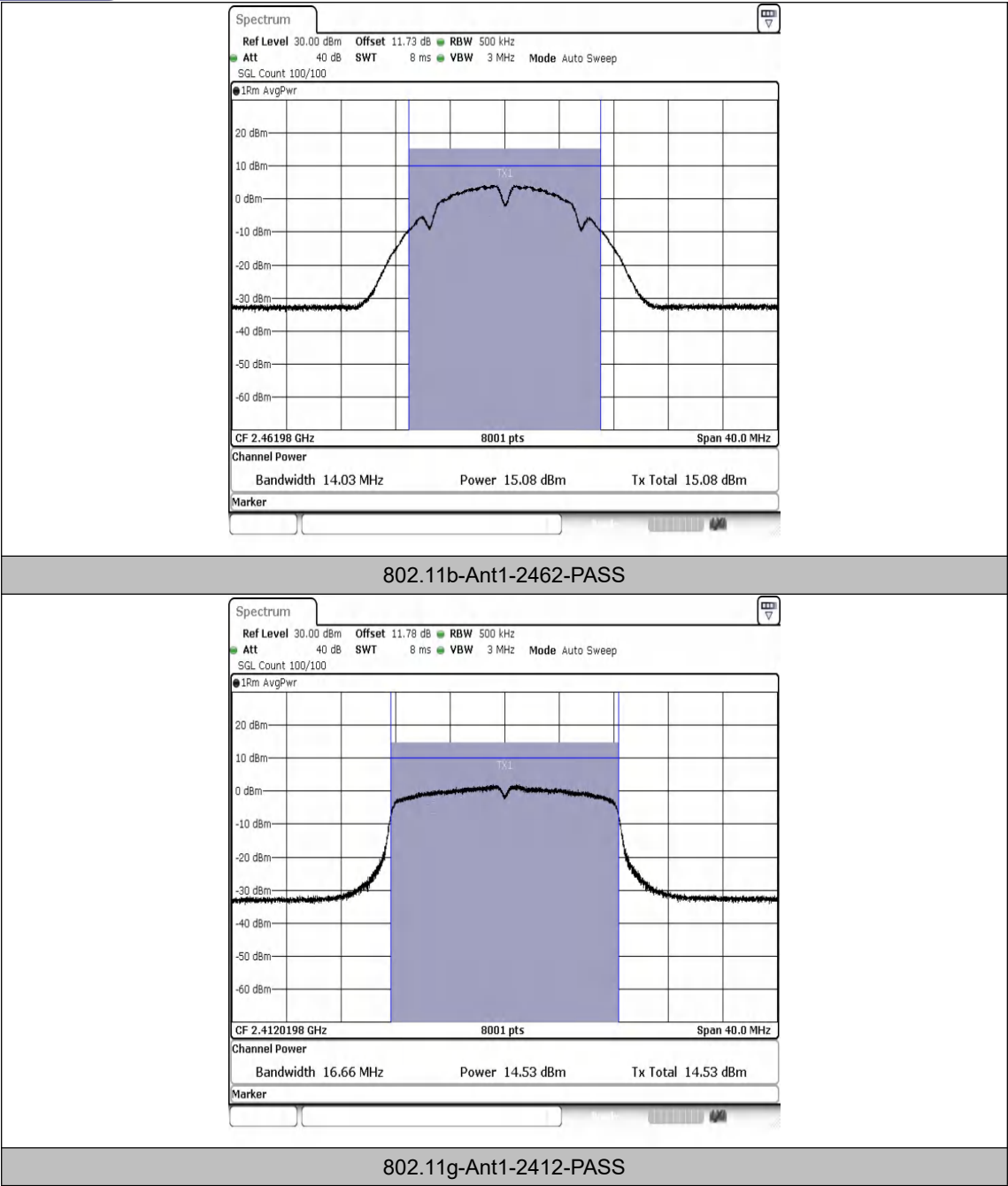
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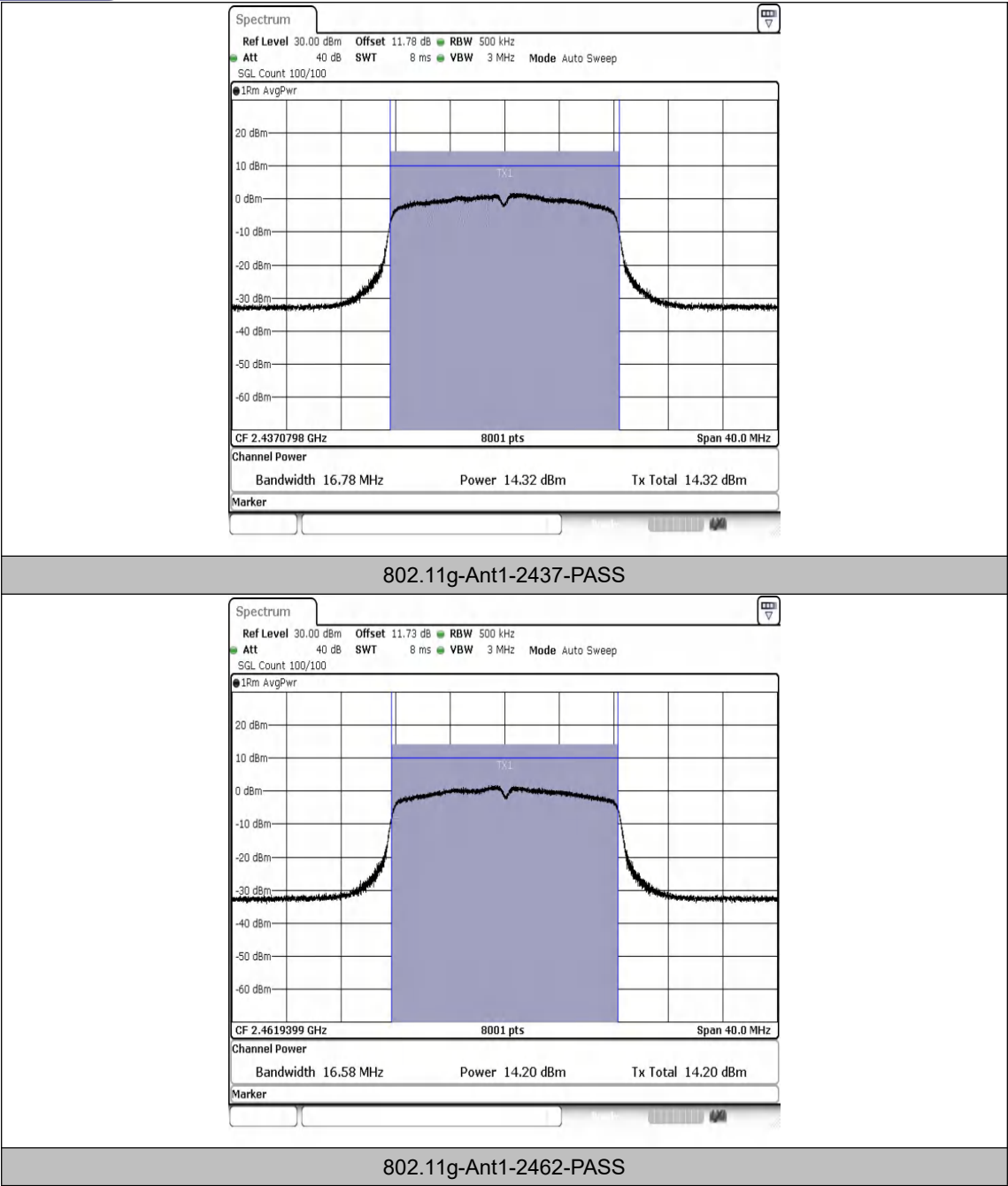
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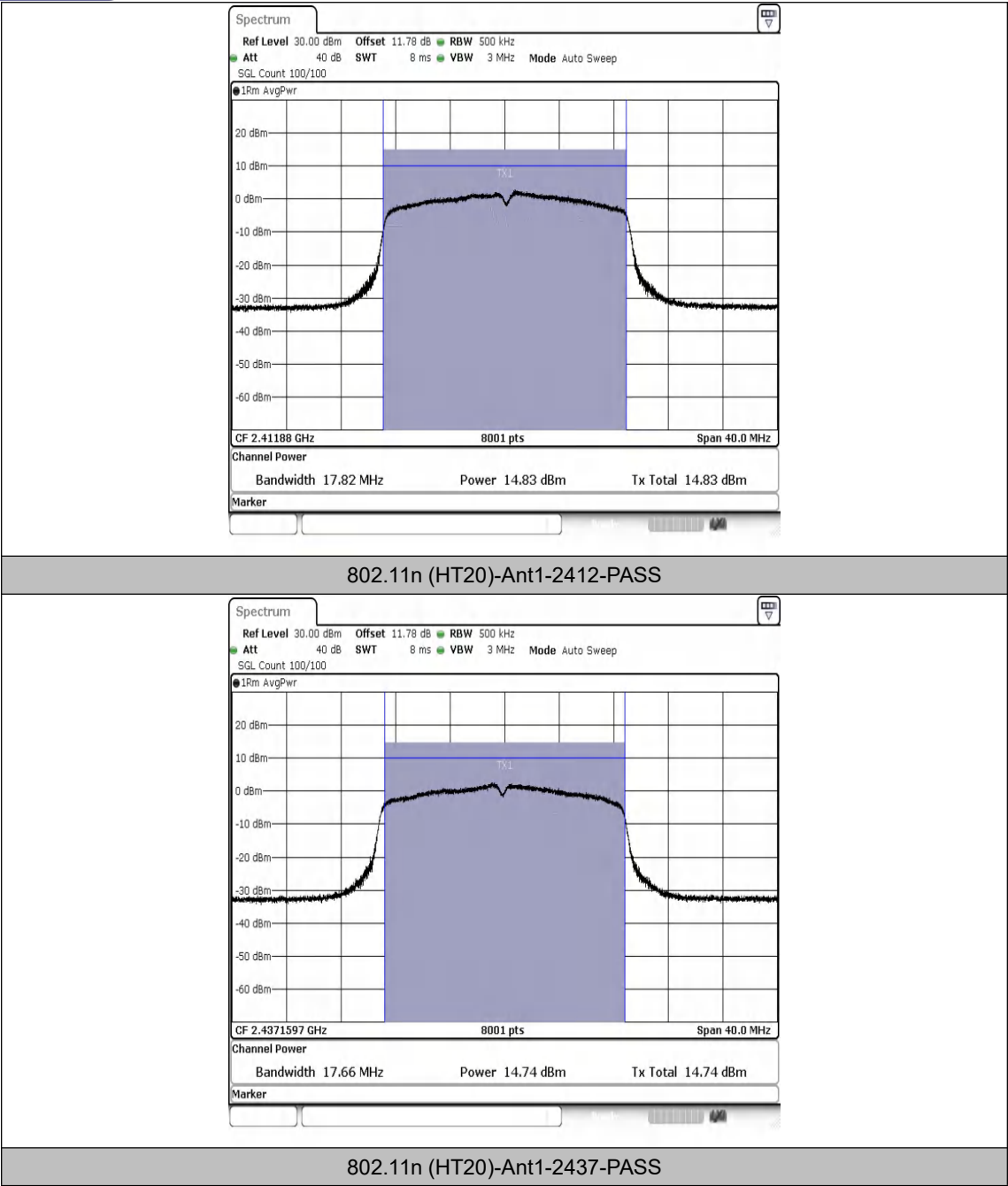


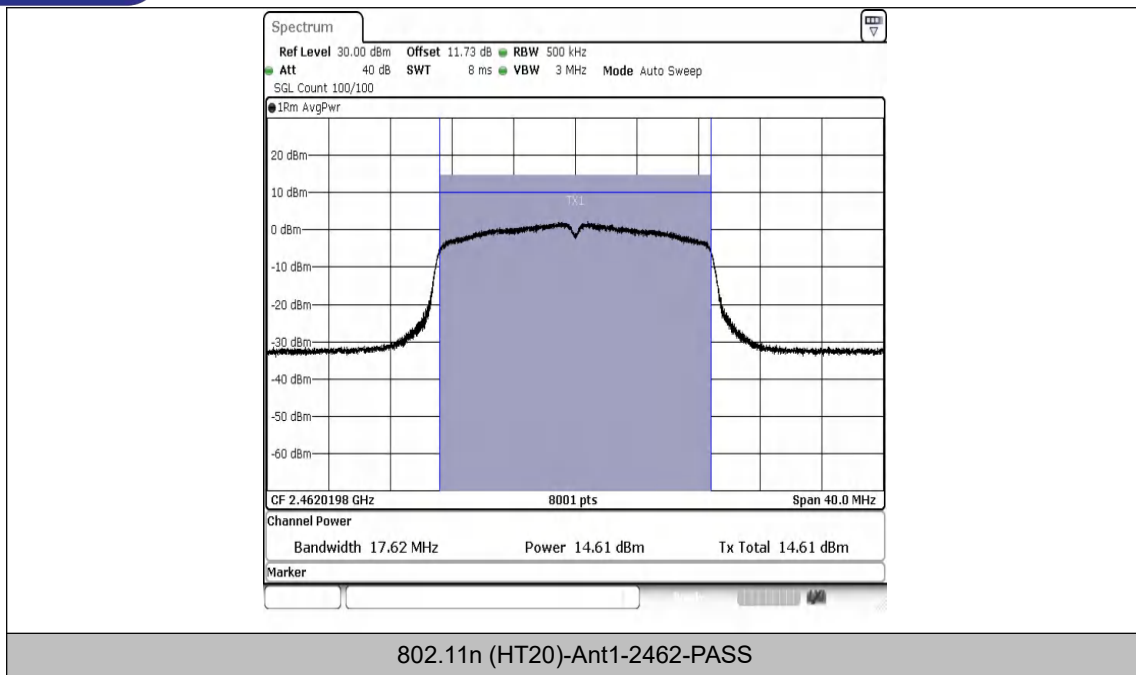
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Appendix D: Maximum power spectral density

Test Result

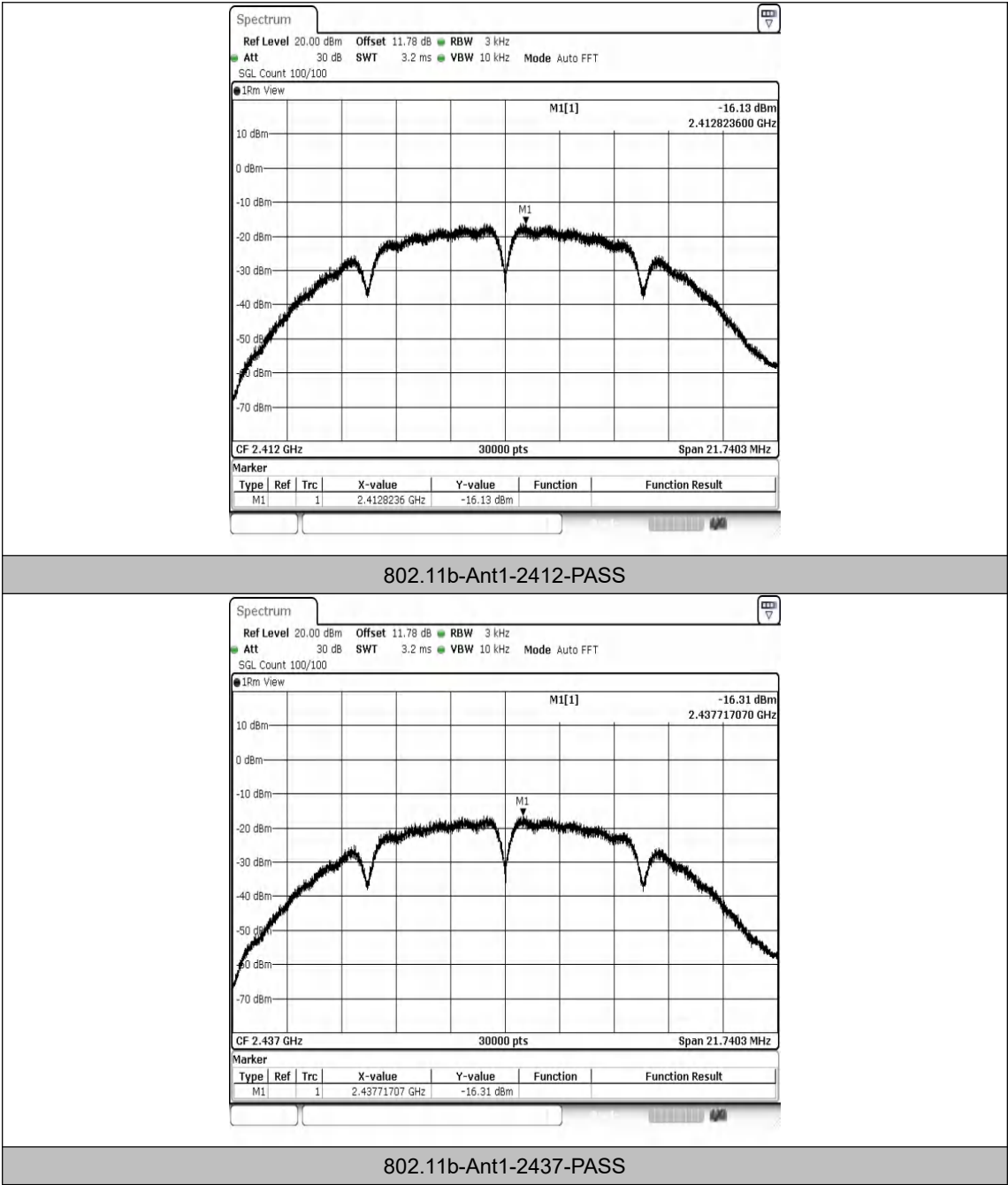
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
802.11b	Ant1	2412	-16.13	≤8.00	PASS
802.11b	Ant1	2437	-16.31	≤8.00	PASS
802.11b	Ant1	2462	-15.70	≤8.00	PASS
802.11g	Ant1	2412	-15.27	≤8.00	PASS
802.11g	Ant1	2437	-14.92	≤8.00	PASS
802.11g	Ant1	2462	-15.75	≤8.00	PASS
802.11n (HT20)	Ant1	2412	-14.65	≤8.00	PASS
802.11n (HT20)	Ant1	2437	-13.87	≤8.00	PASS
802.11n (HT20)	Ant1	2462	-15.05	≤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

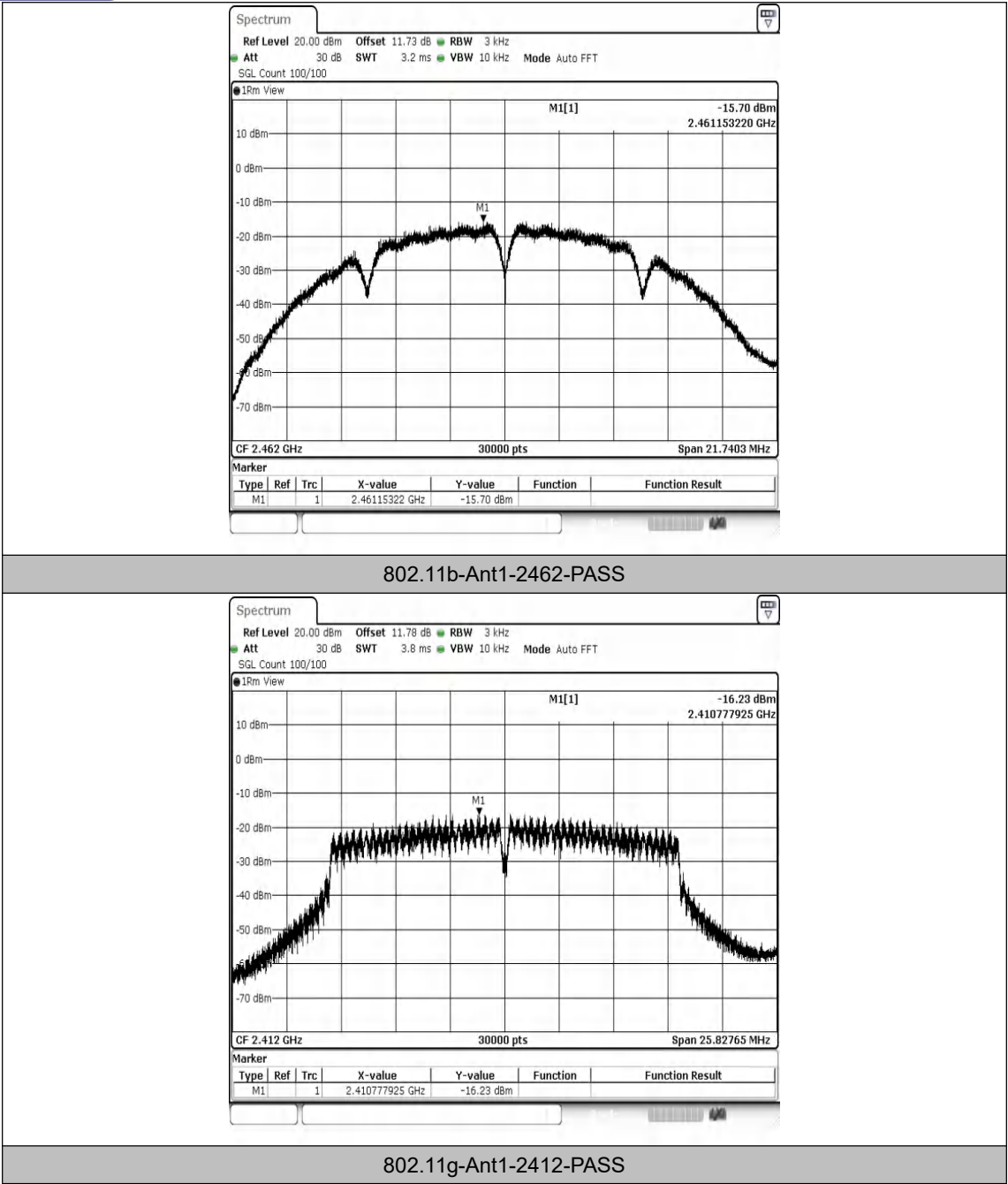


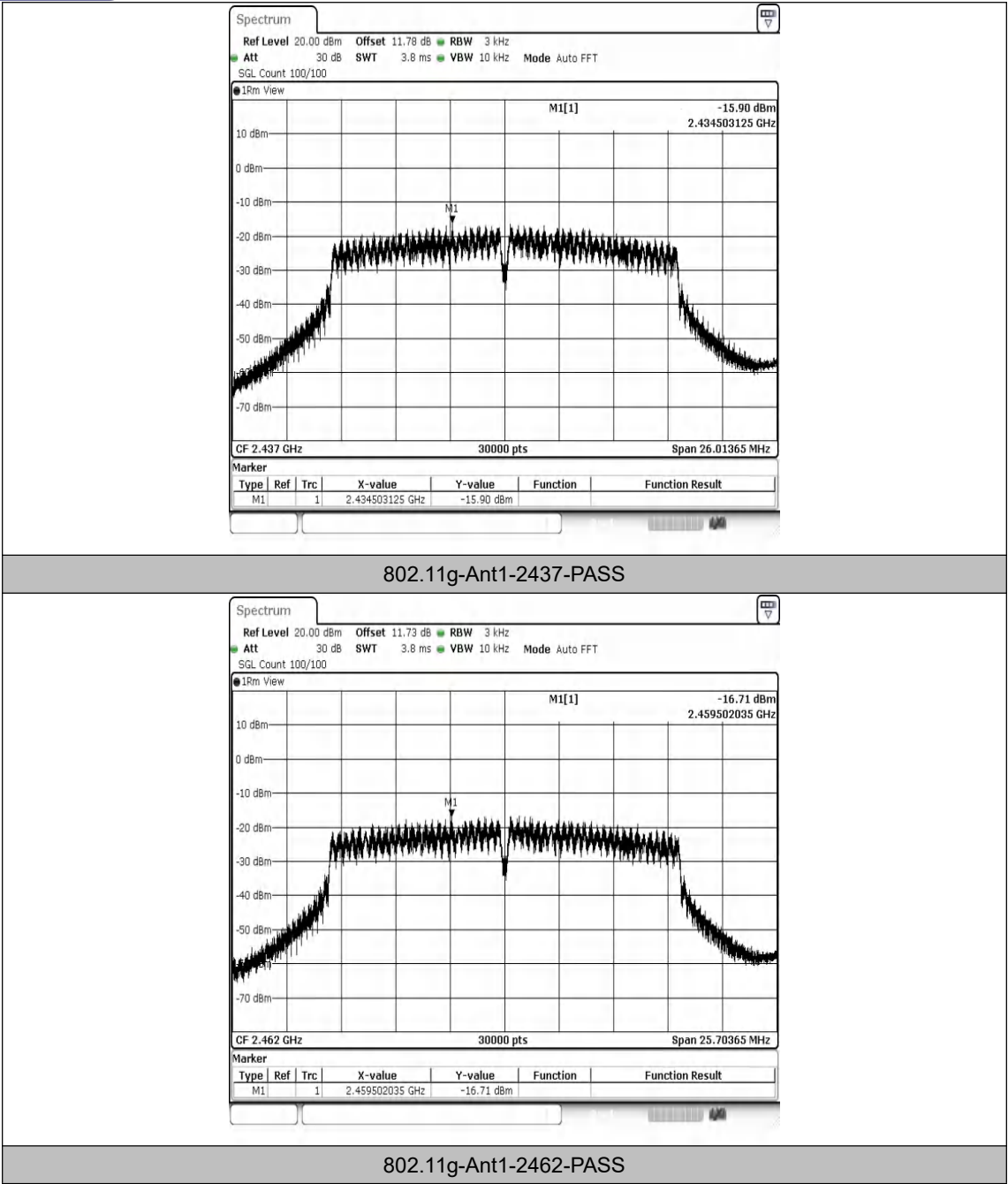
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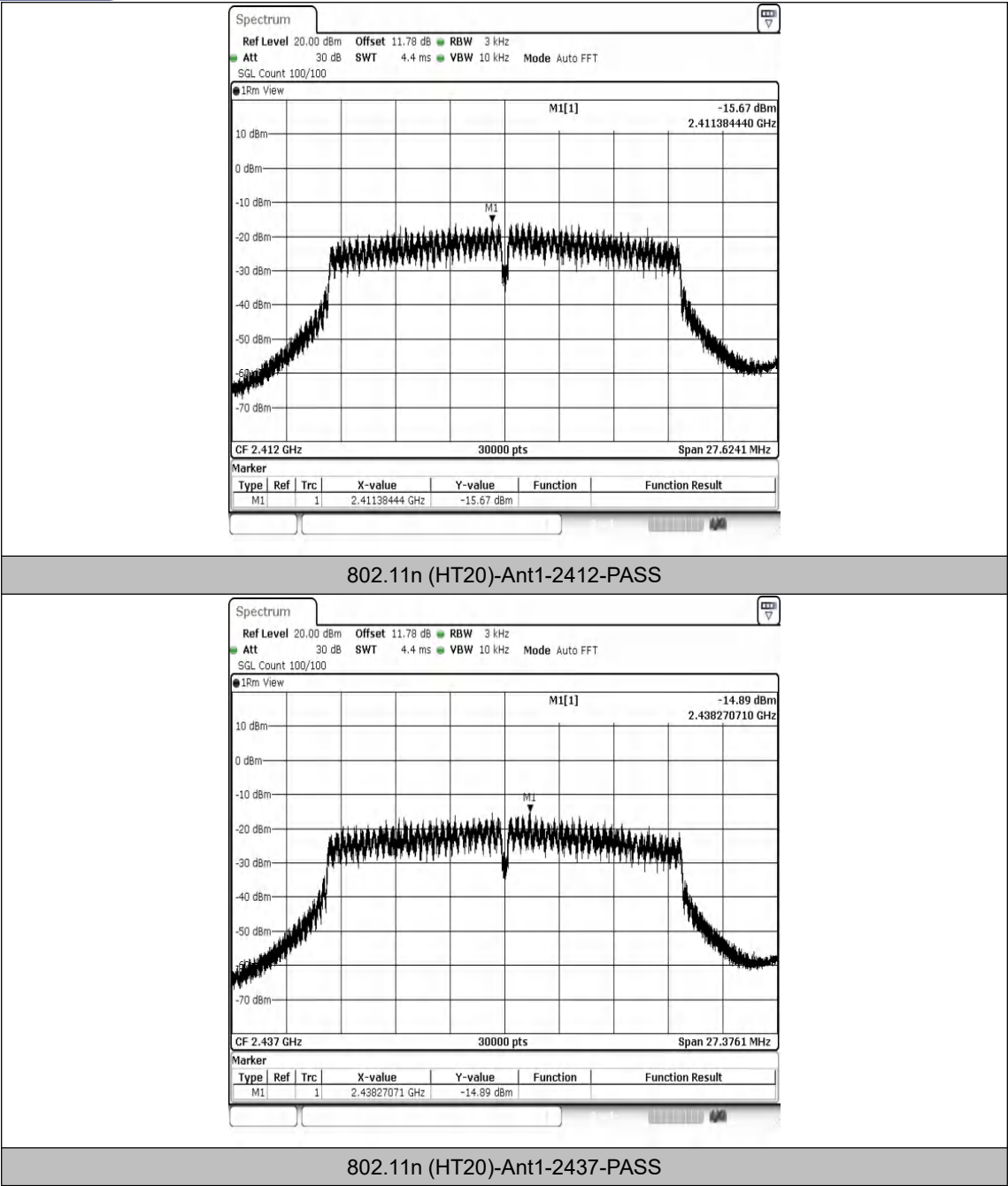
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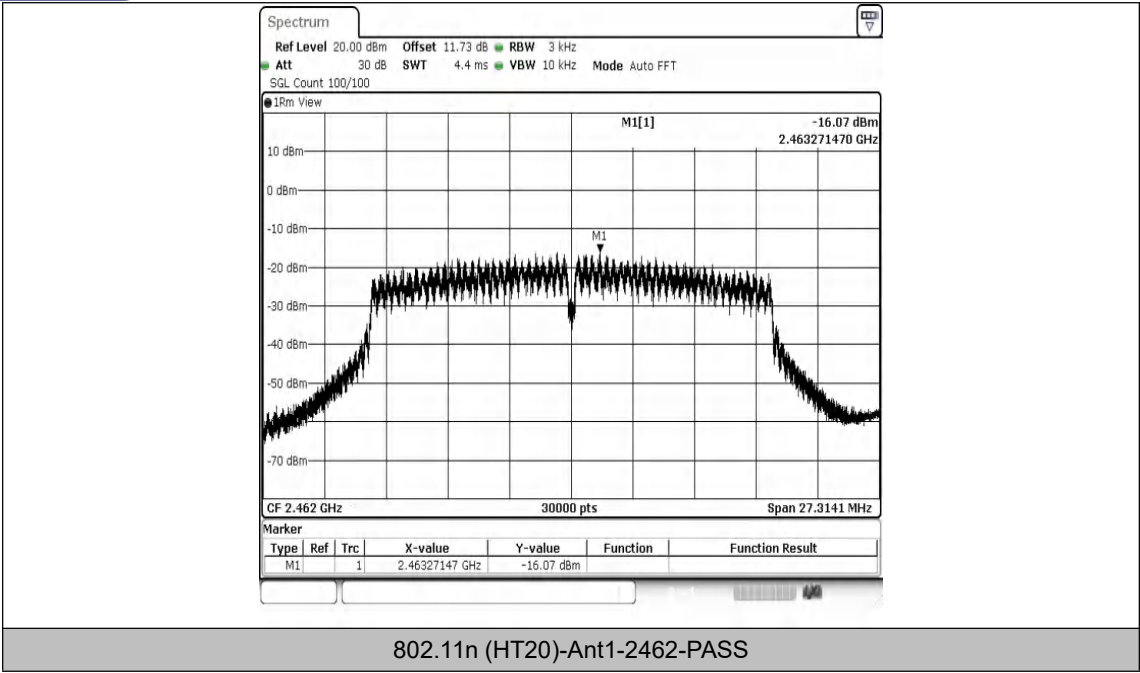
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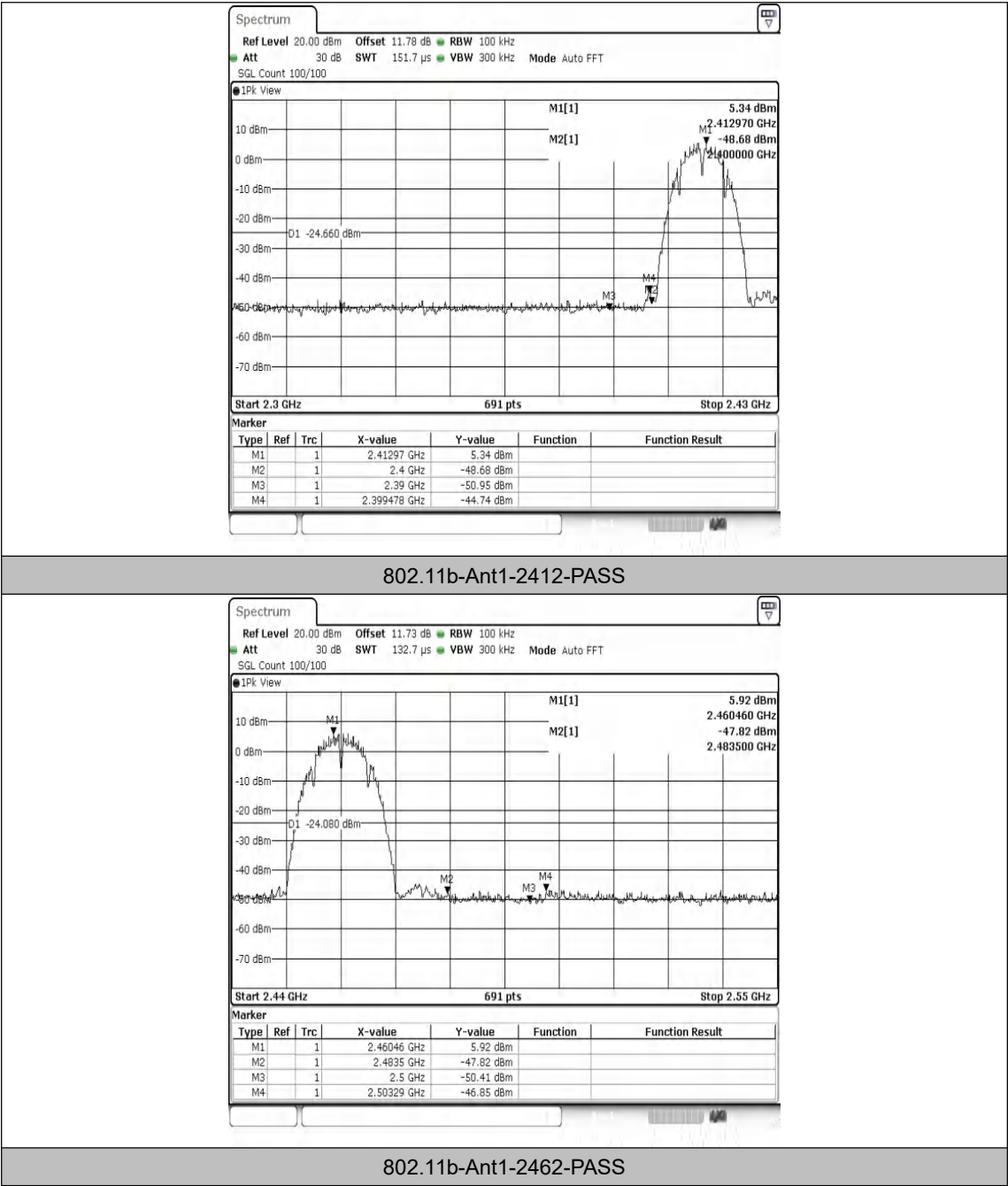
Appendix F: Band edge measurements

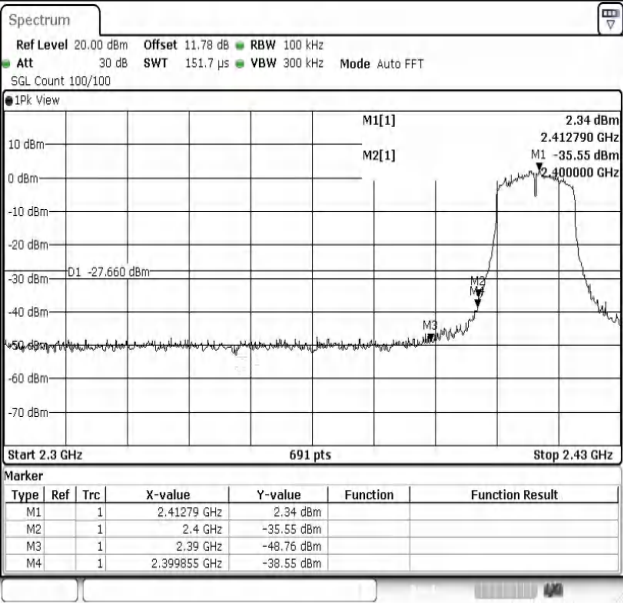
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	5.34	-44.74	≤-24.66	PASS
802.11b	Ant1	High	2462	5.92	-46.85	≤-24.08	PASS
802.11g	Ant1	Low	2412	2.34	-38.55	≤-27.66	PASS
802.11g	Ant1	High	2462	2.05	-46.63	≤-27.95	PASS
802.11n (HT20)	Ant1	Low	2412	2.71	-36.01	≤-27.29	PASS
802.11n (HT20)	Ant1	High	2462	3.68	-45.3	≤-26.32	PASS

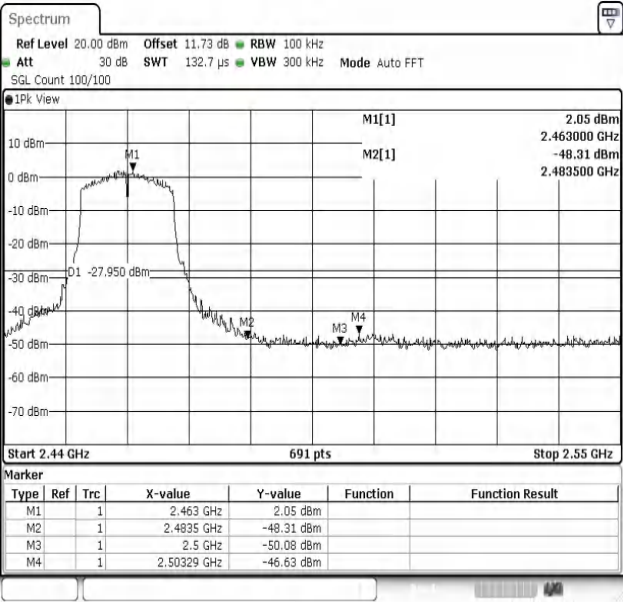


Test Graphs



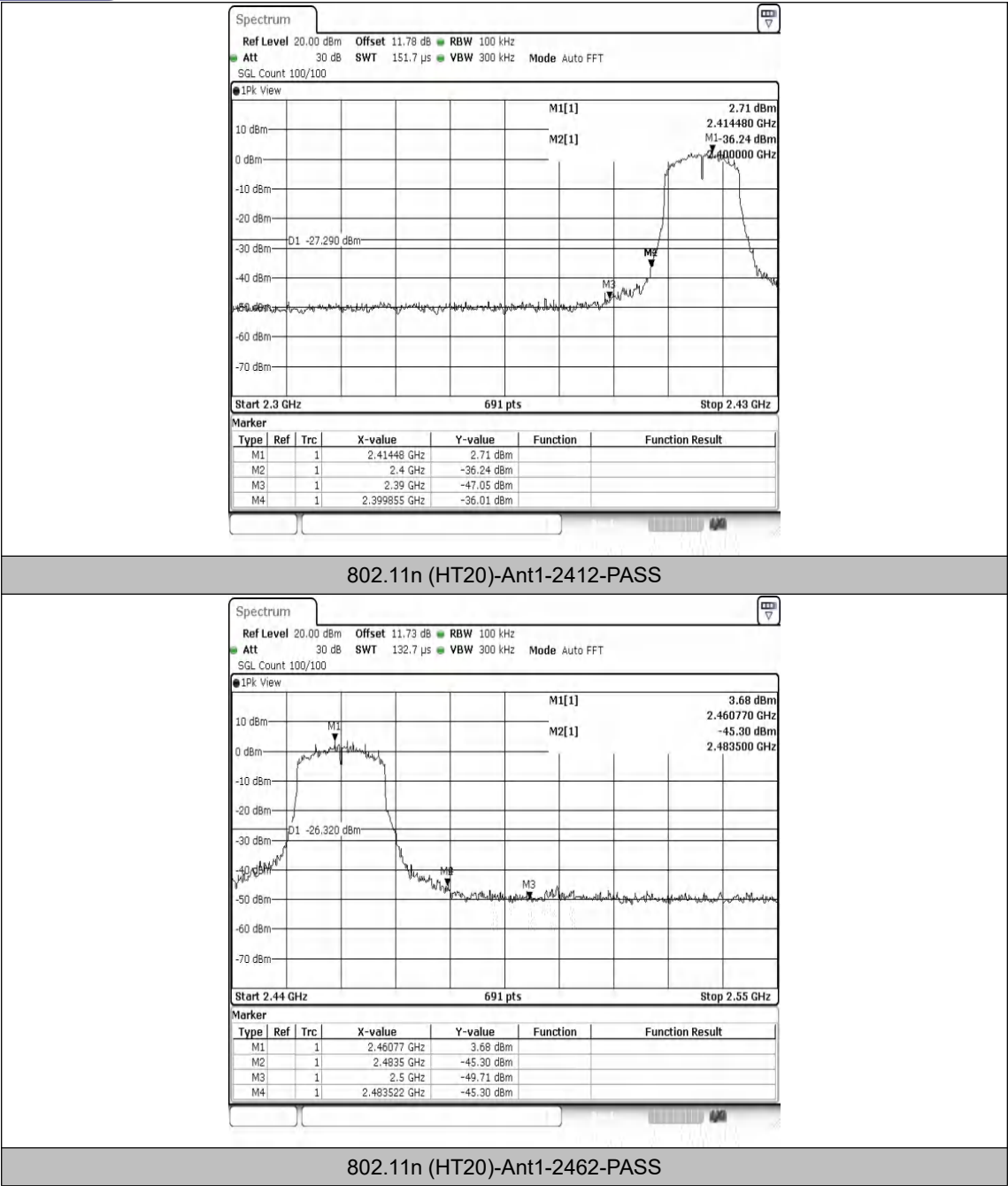


802.11g-Ant1-2412-PASS



802.11g-Ant1-2462-PASS





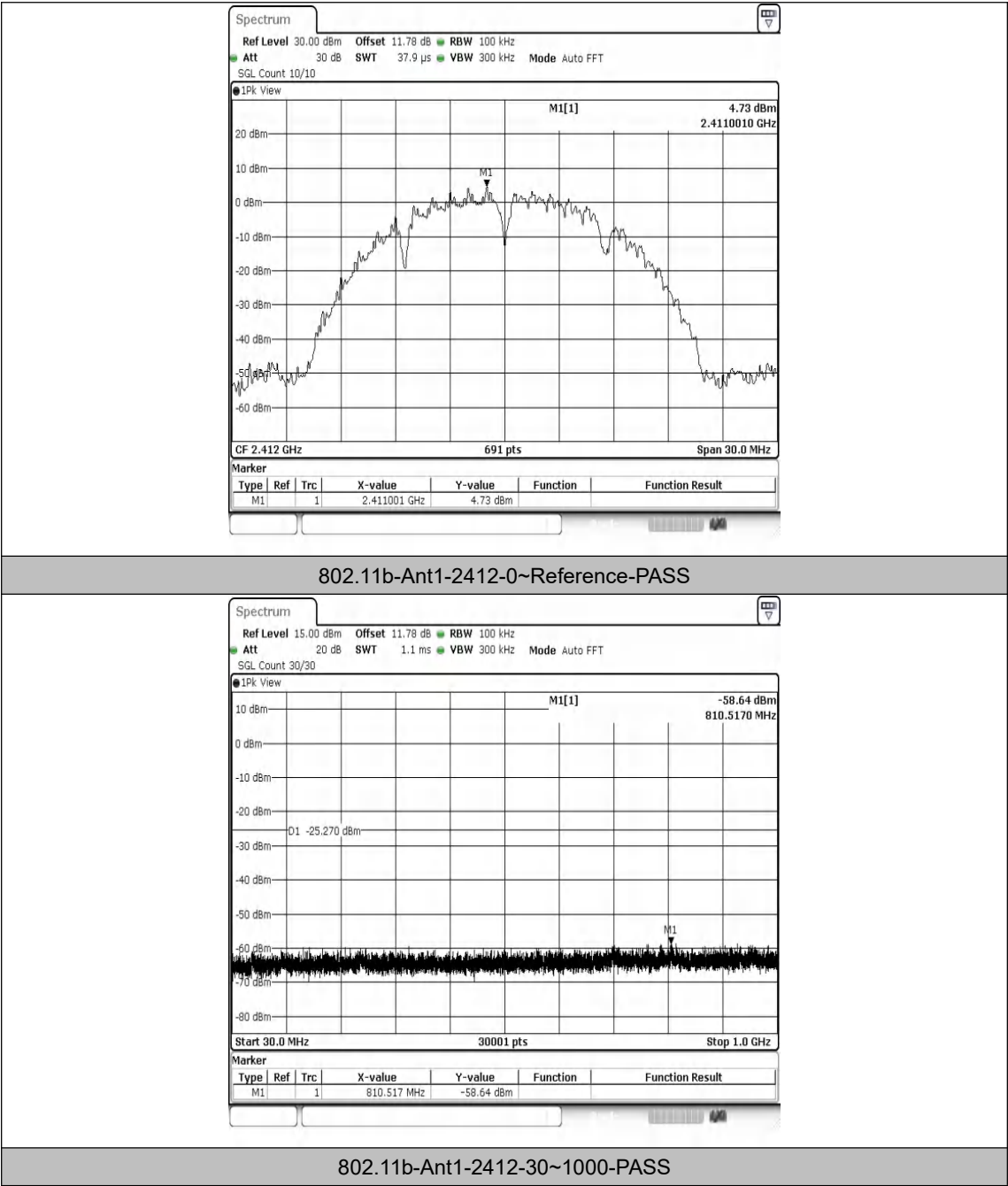
Appendix G: Conducted Spurious Emission

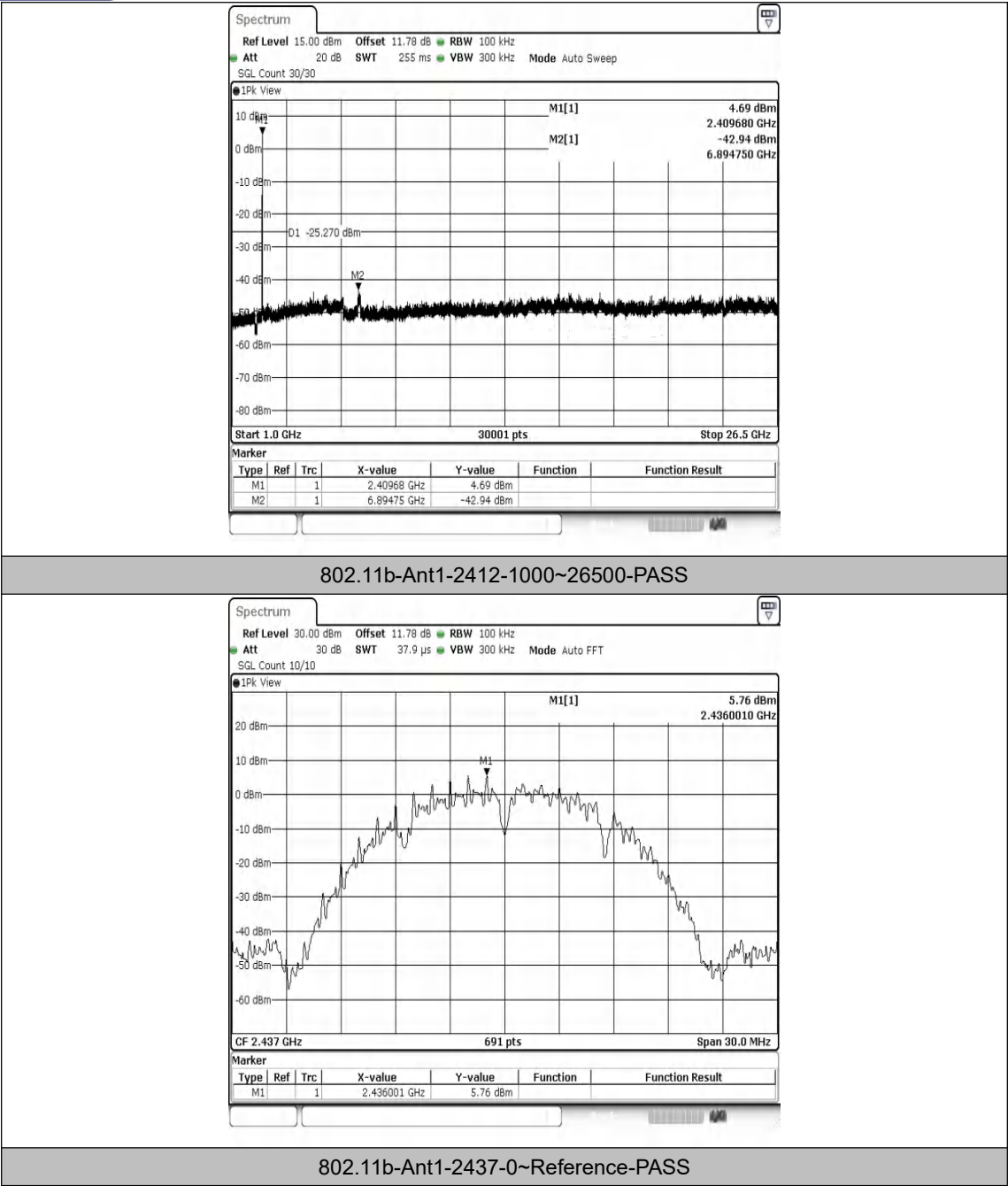
Test Result

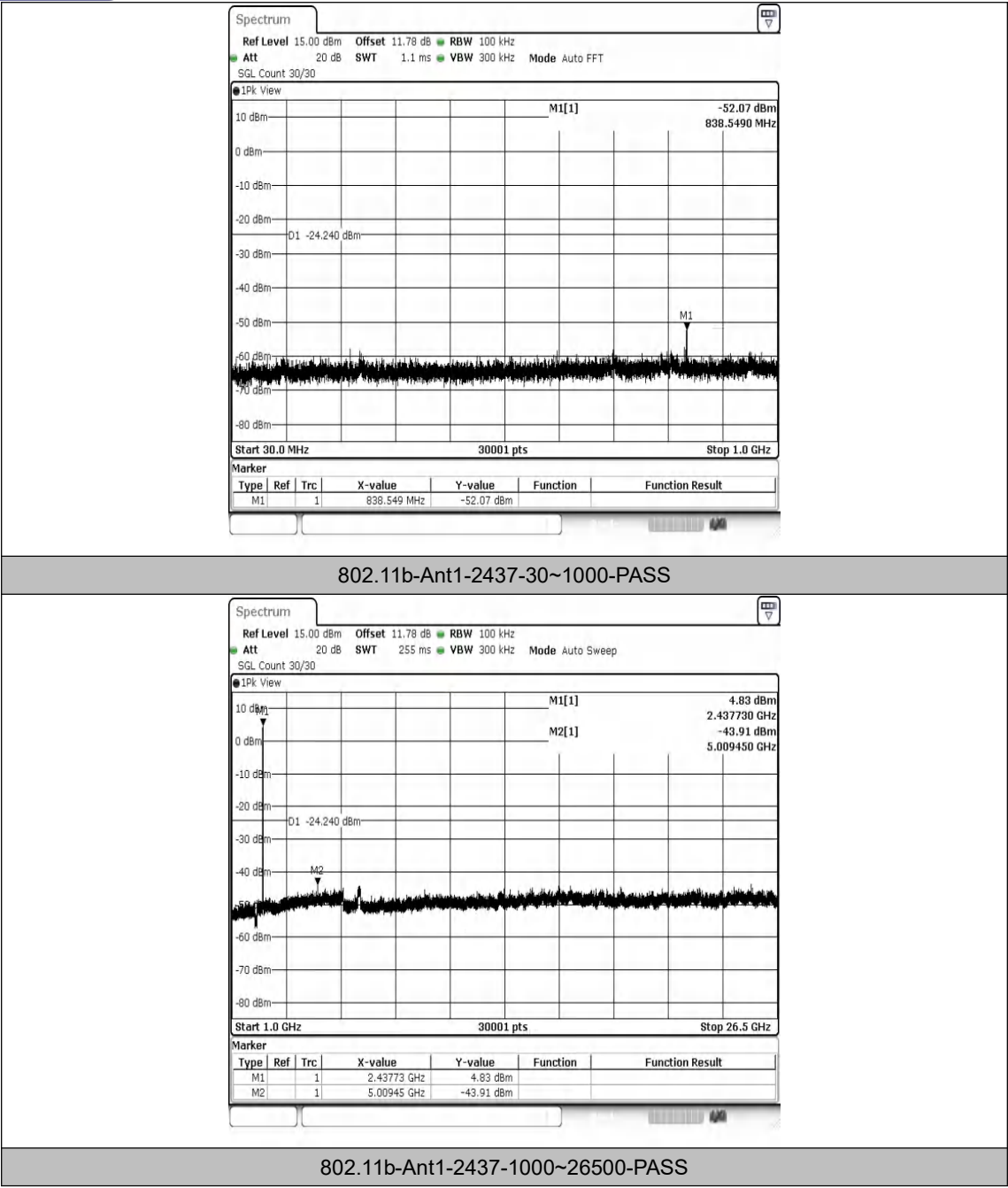
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	0~Reference	4.73	4.73	---	PASS
802.11b	Ant1	2412	30~1000	4.73	-58.64	≤-25.27	PASS
802.11b	Ant1	2412	1000~26500	4.73	-42.94	≤-25.27	PASS
802.11b	Ant1	2437	0~Reference	5.76	5.76	---	PASS
802.11b	Ant1	2437	30~1000	5.76	-52.07	≤-24.24	PASS
802.11b	Ant1	2437	1000~26500	5.76	-43.91	≤-24.24	PASS
802.11b	Ant1	2462	0~Reference	4.76	4.76	---	PASS
802.11b	Ant1	2462	30~1000	4.76	-57.51	≤-25.24	PASS
802.11b	Ant1	2462	1000~26500	4.76	-43.4	≤-25.24	PASS
802.11g	Ant1	2412	0~Reference	1.00	1.00	---	PASS
802.11g	Ant1	2412	30~1000	1.00	-58.49	≤-29	PASS
802.11g	Ant1	2412	1000~26500	1.00	-44.2	≤-29	PASS
802.11g	Ant1	2437	0~Reference	0.97	0.97	---	PASS
802.11g	Ant1	2437	30~1000	0.97	-57.59	≤-29.03	PASS
802.11g	Ant1	2437	1000~26500	0.97	-43.92	≤-29.03	PASS
802.11g	Ant1	2462	0~Reference	0.75	0.75	---	PASS
802.11g	Ant1	2462	30~1000	0.75	-57.76	≤-29.25	PASS
802.11g	Ant1	2462	1000~26500	0.75	-43.8	≤-29.25	PASS
802.11n (HT20)	Ant1	2412	0~Reference	2.58	2.58	---	PASS
802.11n (HT20)	Ant1	2412	30~1000	2.58	-57.6	≤-27.42	PASS
802.11n (HT20)	Ant1	2412	1000~26500	2.58	-43.47	≤-27.42	PASS
802.11n (HT20)	Ant1	2437	0~Reference	0.91	0.91	---	PASS
802.11n (HT20)	Ant1	2437	30~1000	0.91	-56.91	≤-29.09	PASS
802.11n (HT20)	Ant1	2437	1000~26500	0.91	-43.4	≤-29.09	PASS
802.11n (HT20)	Ant1	2462	0~Reference	1.92	1.92	---	PASS
802.11n (HT20)	Ant1	2462	30~1000	1.92	-58.29	≤-28.08	PASS
802.11n (HT20)	Ant1	2462	1000~26500	1.92	-43.05	≤-28.08	PASS

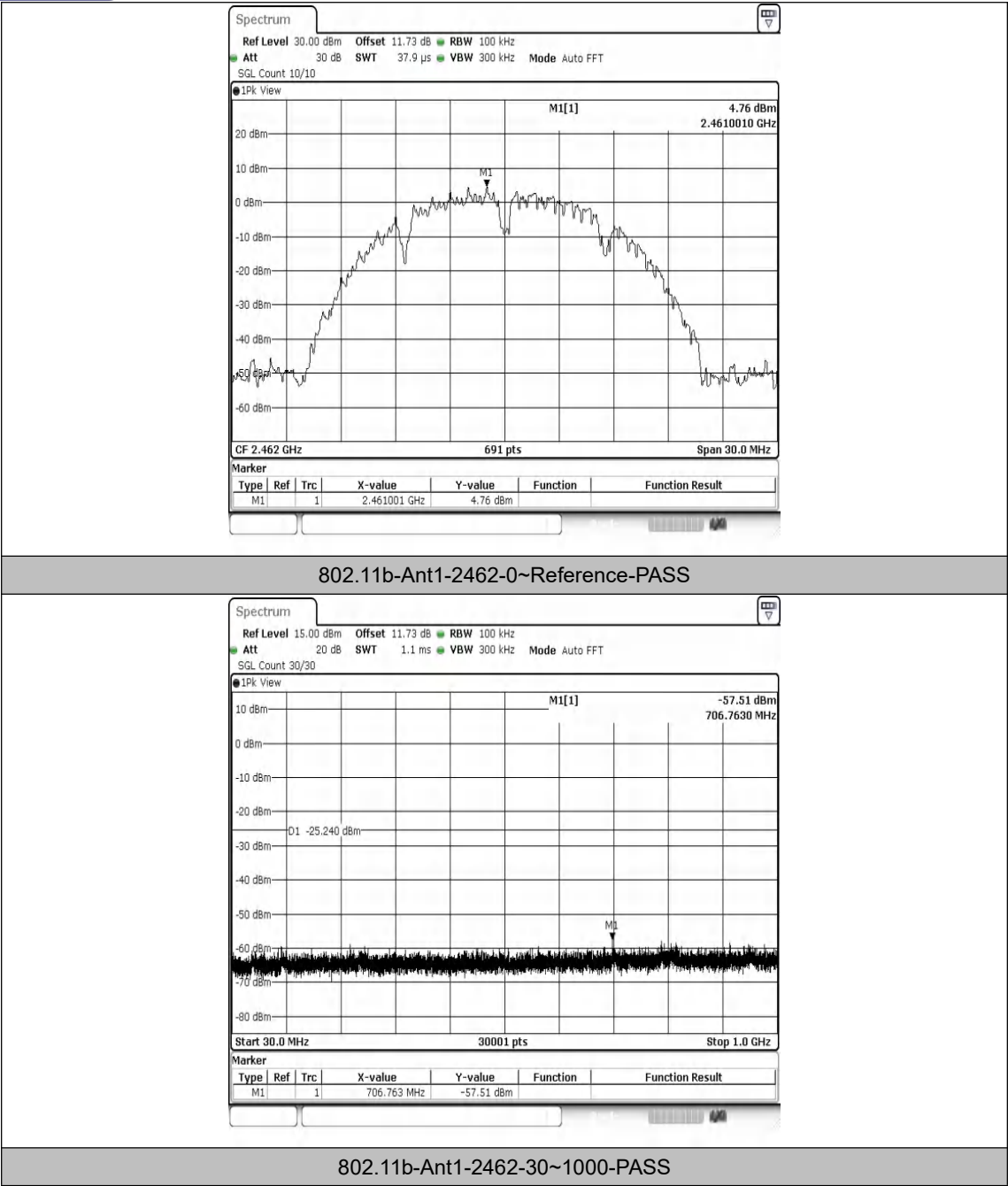


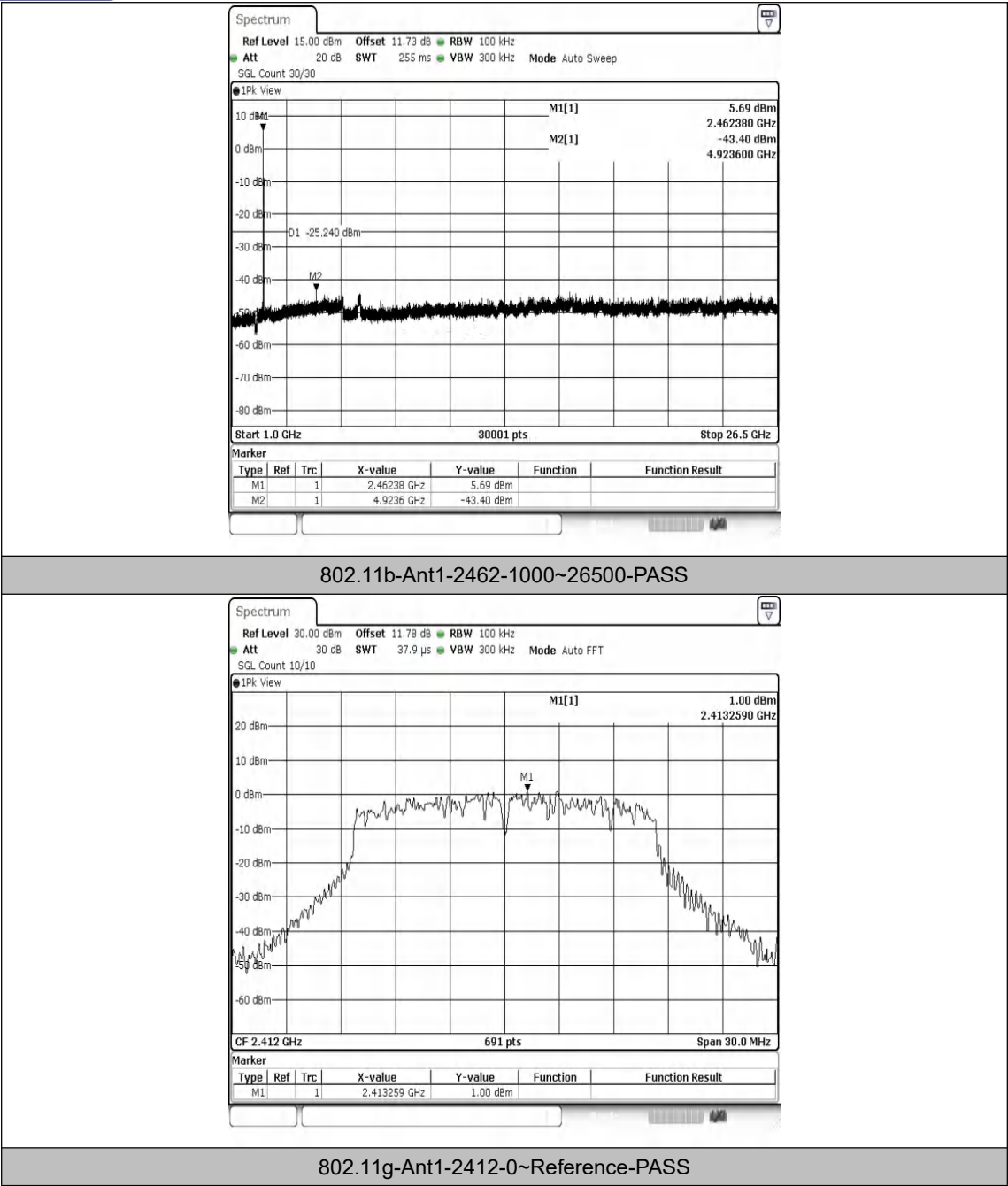
Test Graphs

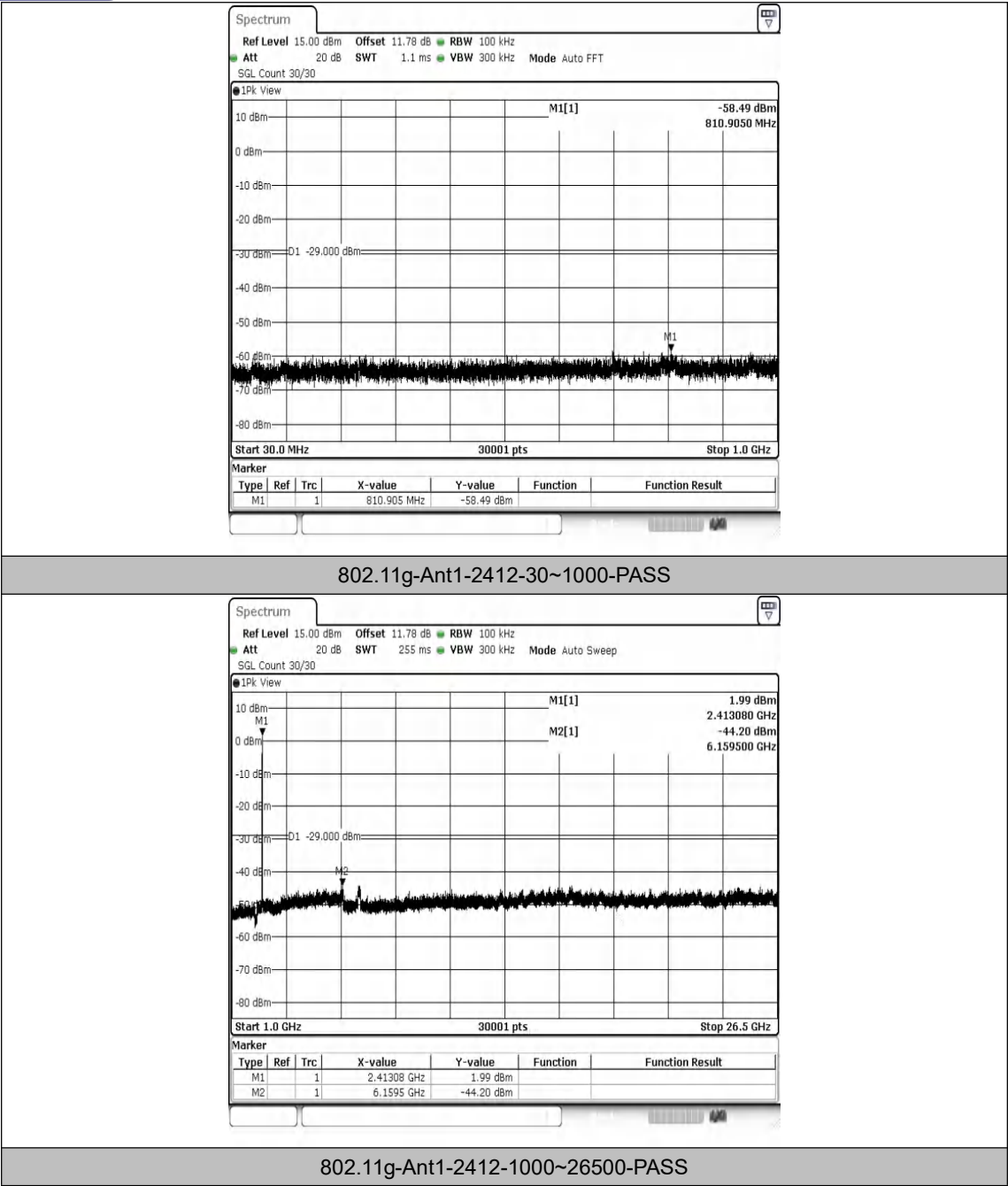


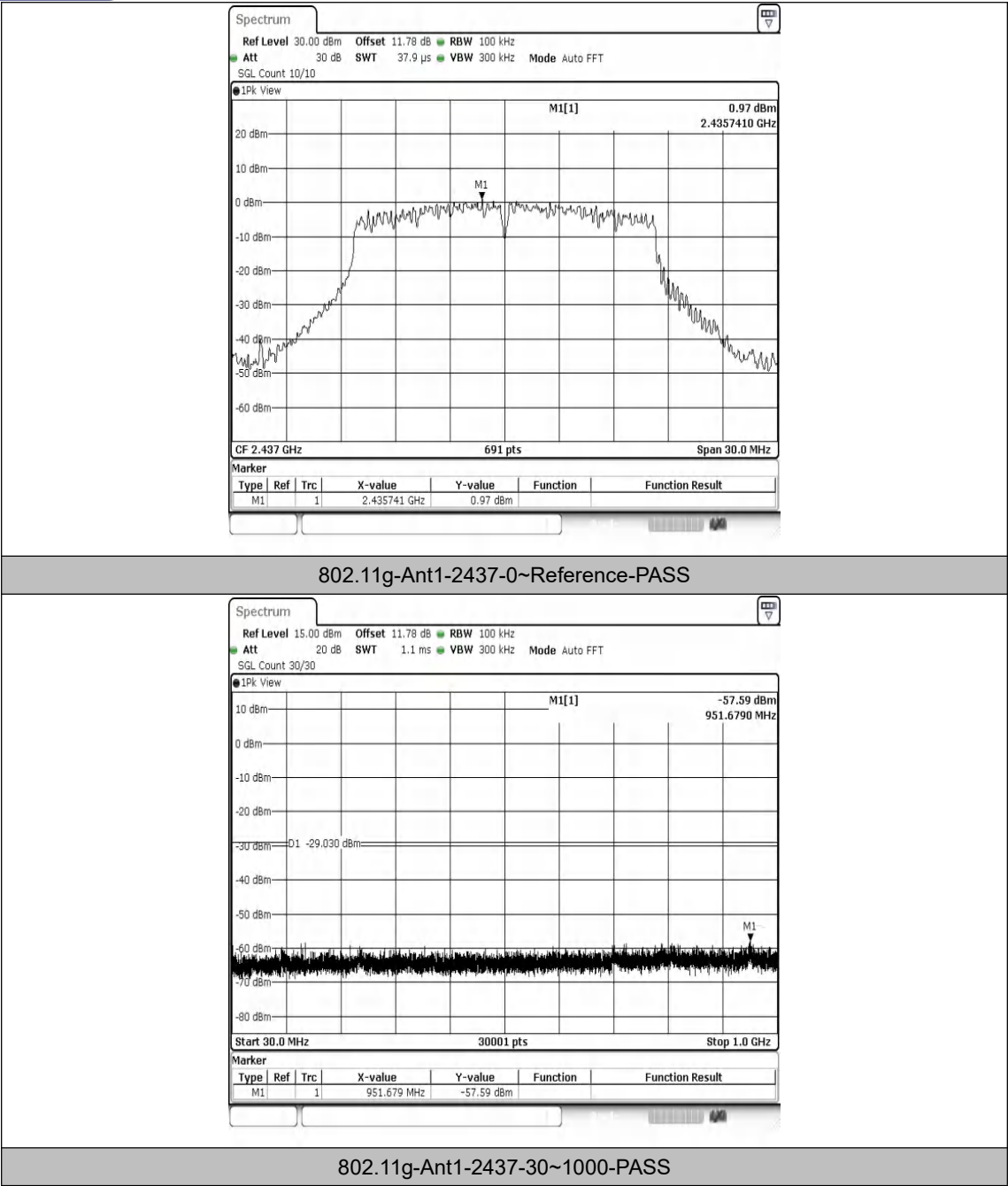


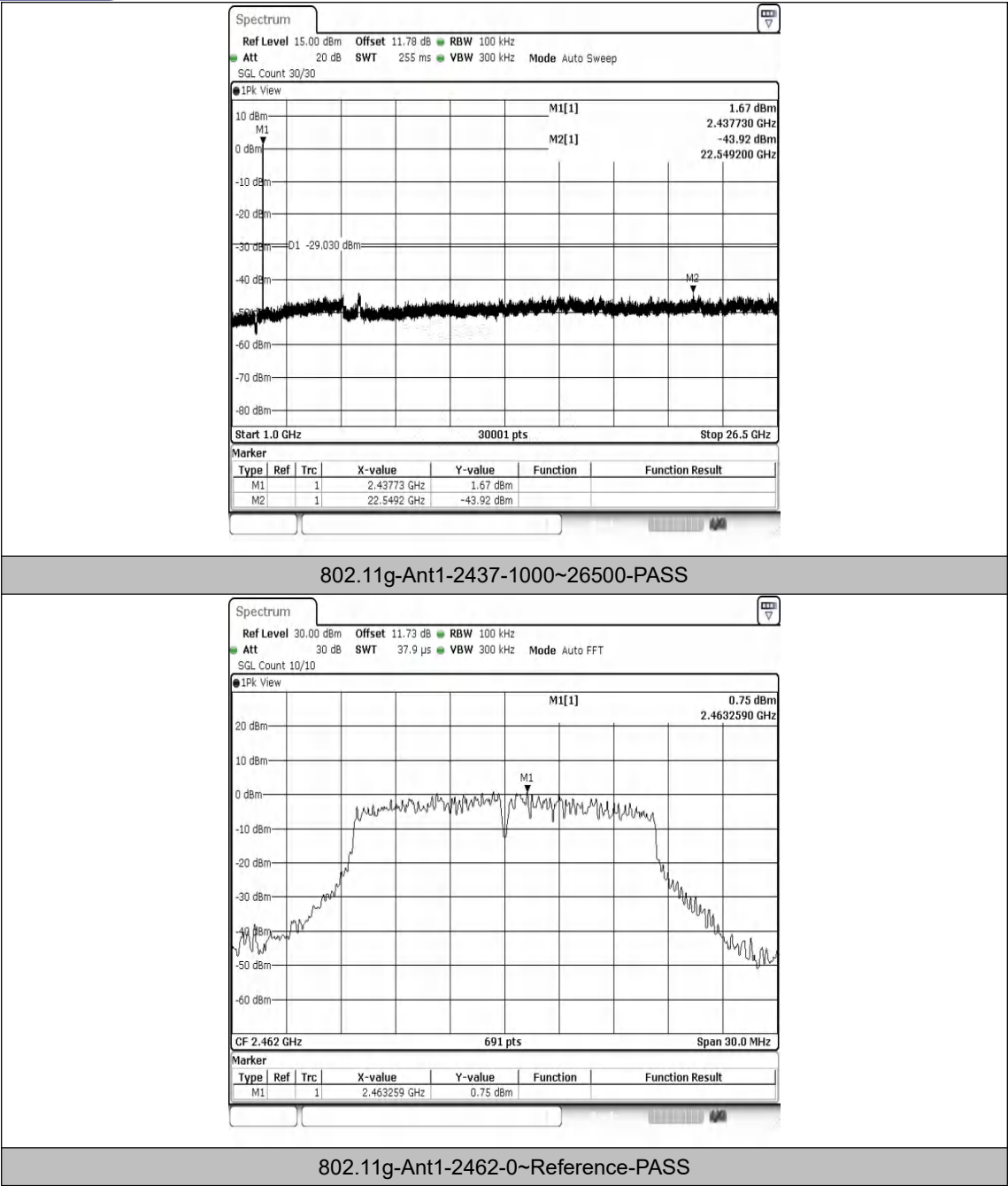


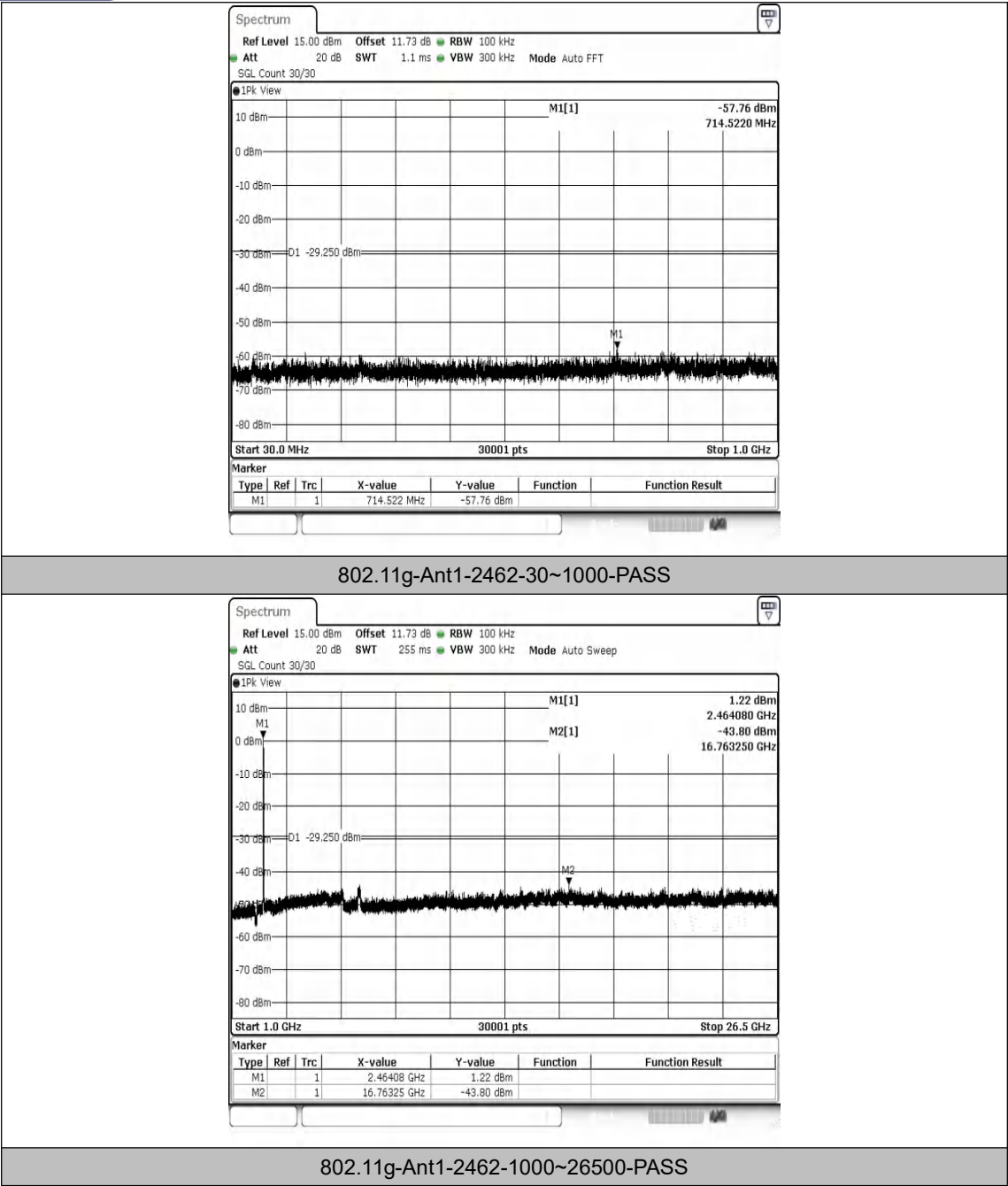


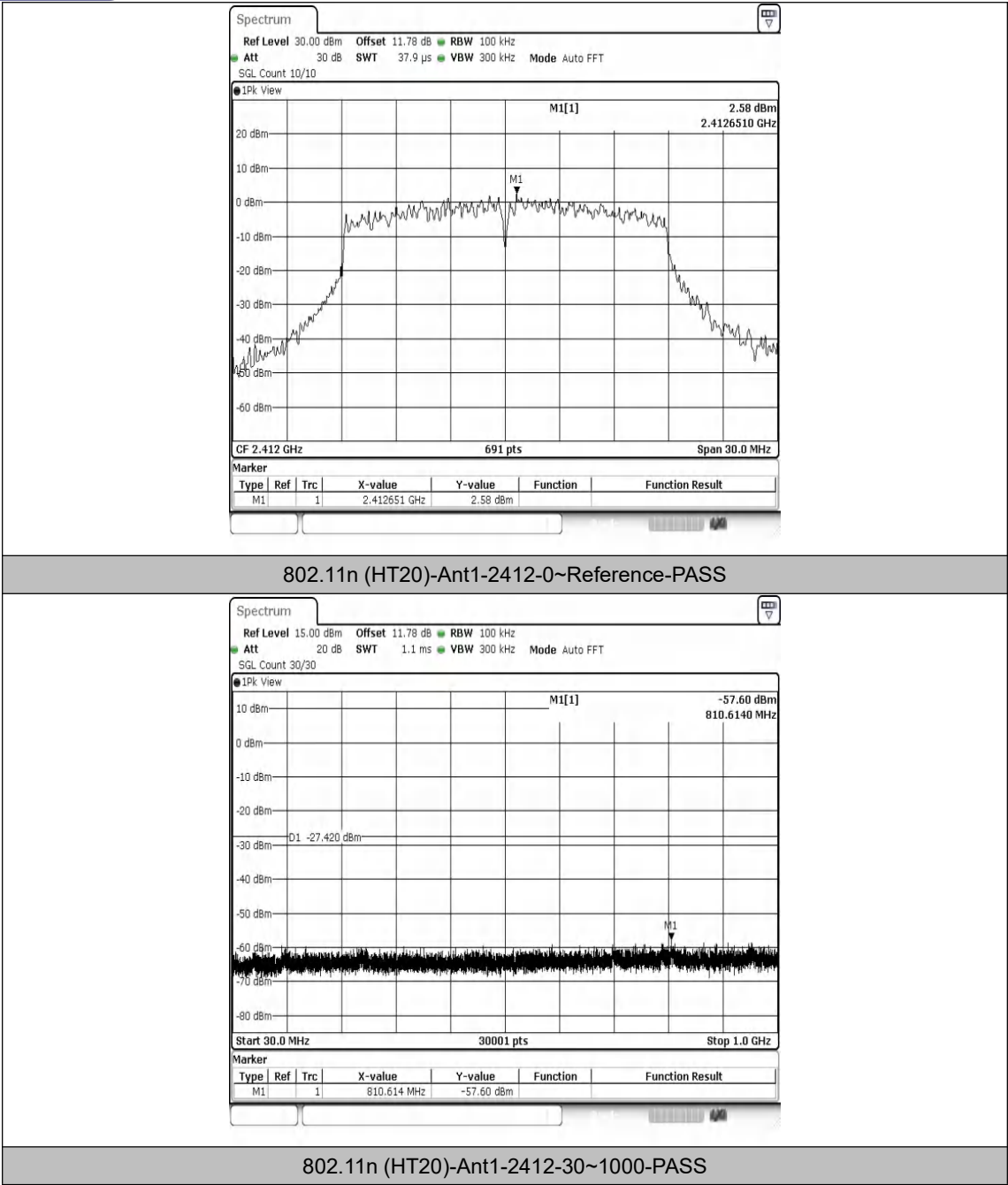


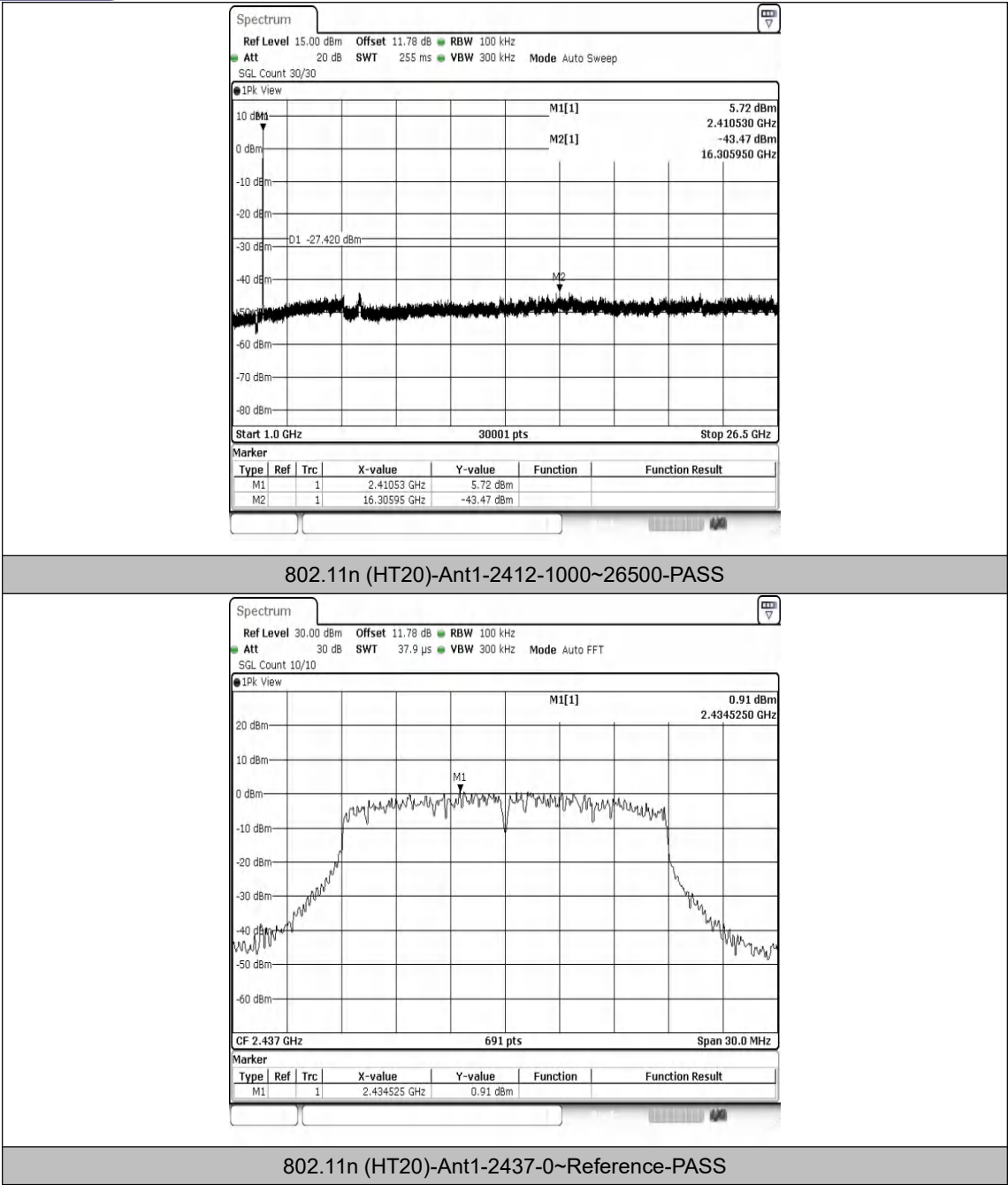


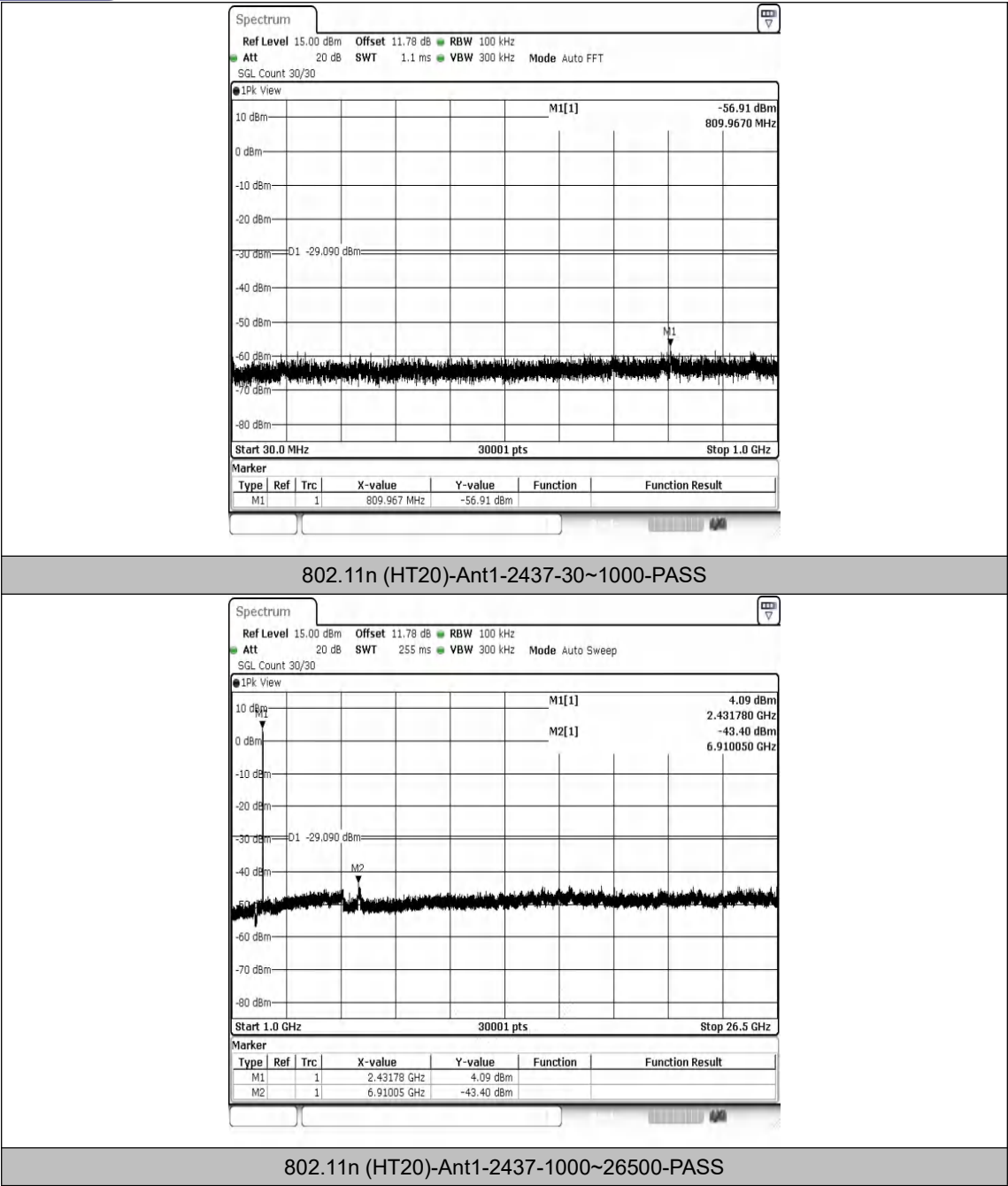


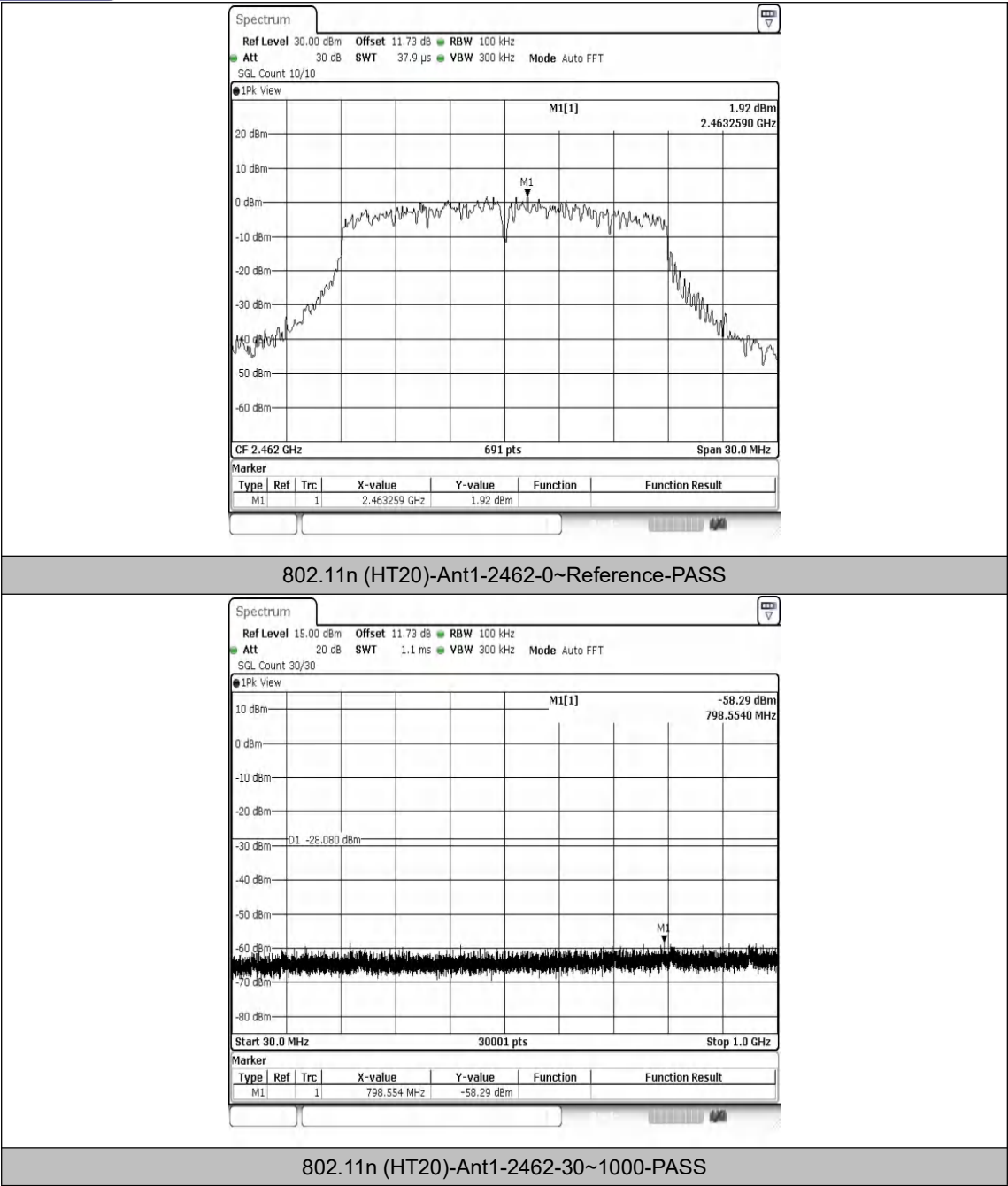


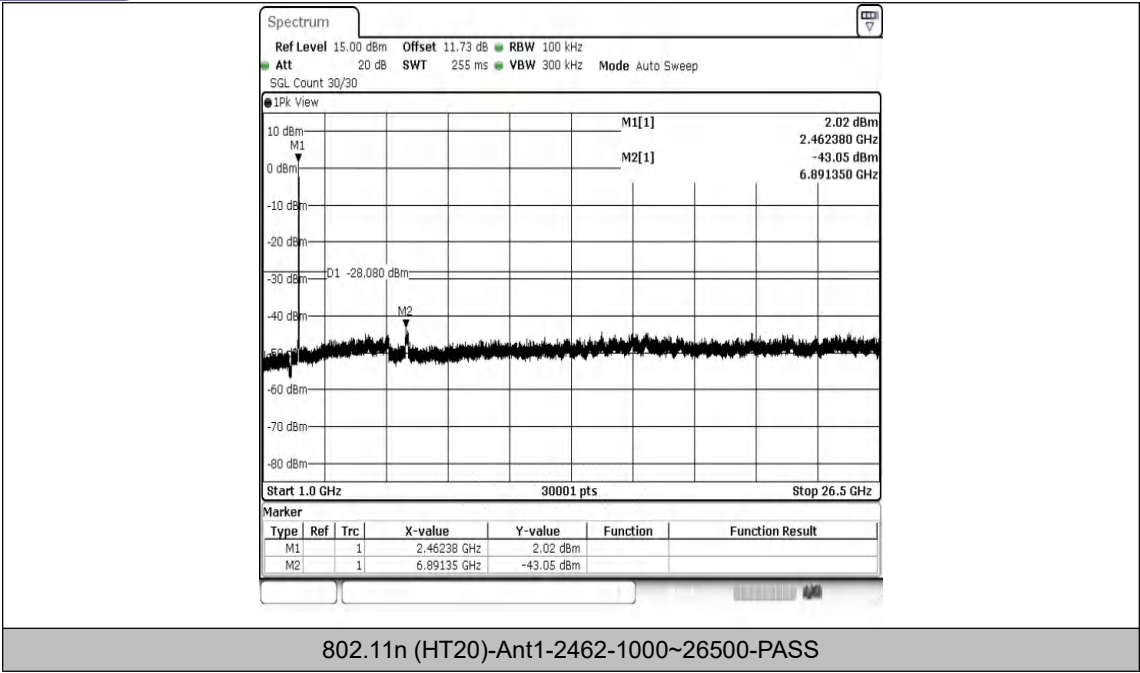












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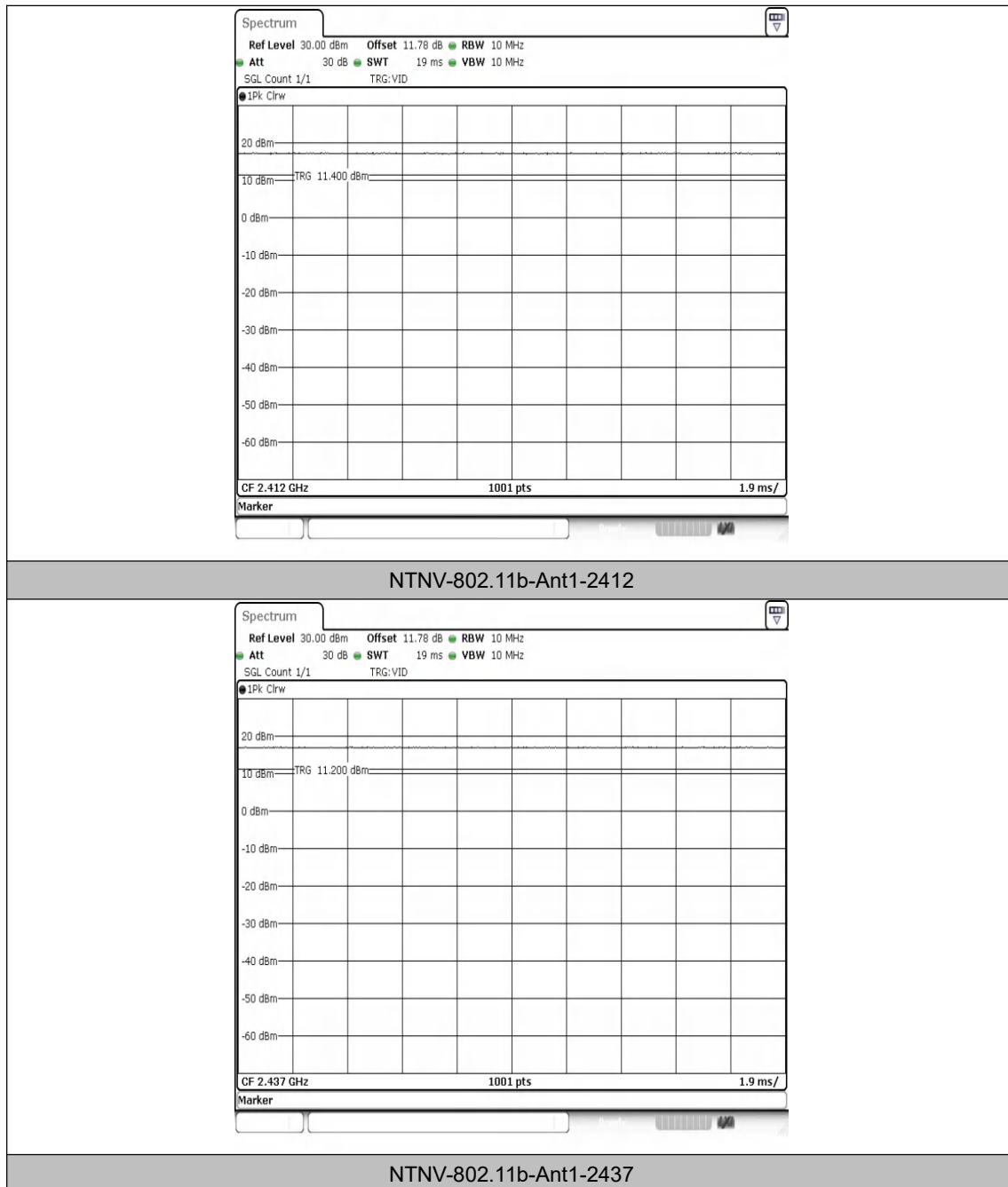
Appendix H: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
802.11b	Ant1	2412	19.00	19.00	100.00	0.00
802.11b	Ant1	2437	19.00	19.00	100.00	0.00
802.11b	Ant1	2462	19.00	19.00	100.00	0.00
802.11g	Ant1	2412	2.03	2.53	80.24	0.96
802.11g	Ant1	2437	2.02	2.53	79.84	0.98
802.11g	Ant1	2462	2.03	2.53	80.24	0.96
802.11n (HT20)	Ant1	2412	1.89	2.39	79.08	1.02
802.11n (HT20)	Ant1	2437	1.89	2.39	79.08	1.02
802.11n (HT20)	Ant1	2462	1.89	2.39	79.08	1.02



Test Graphs



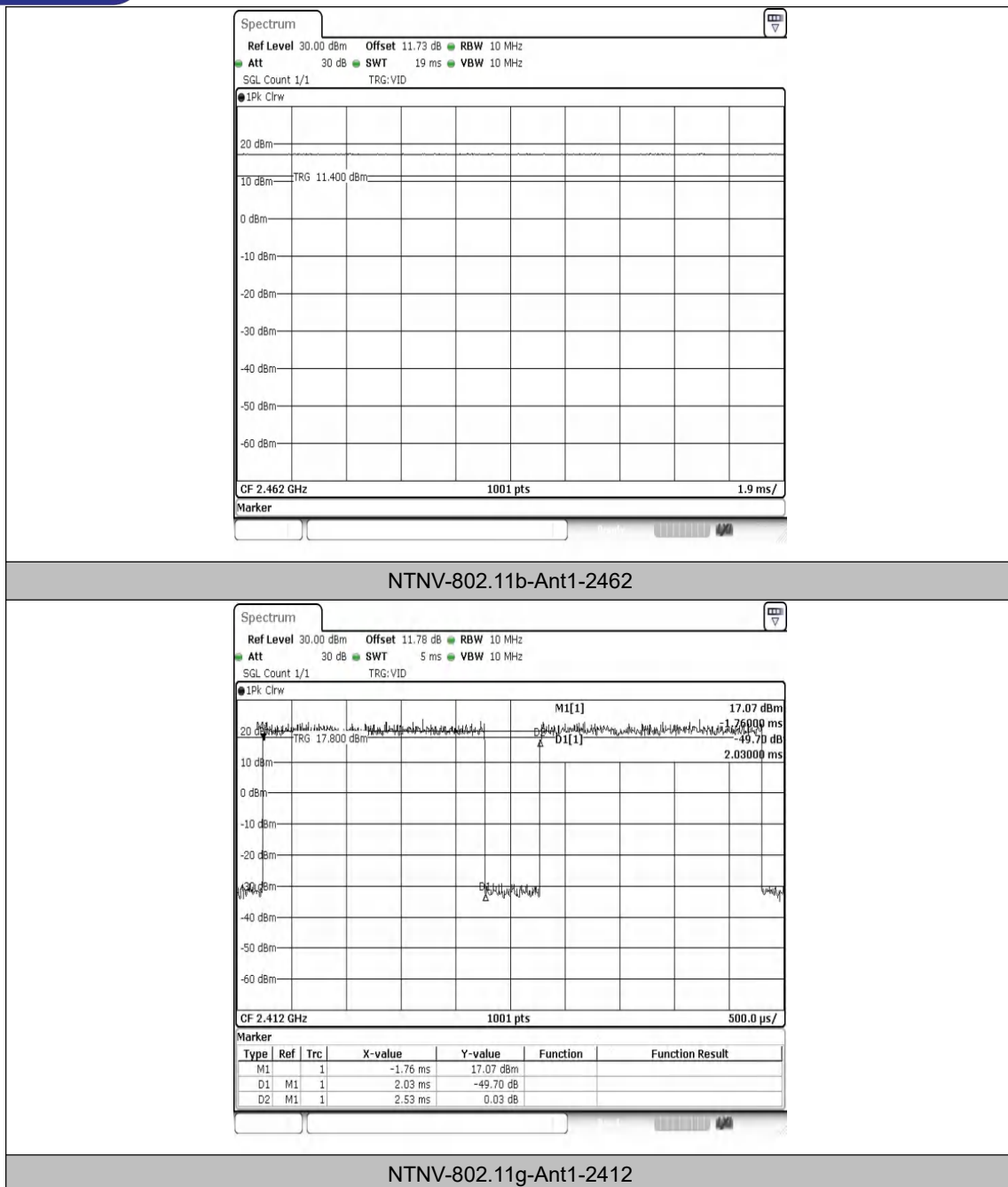
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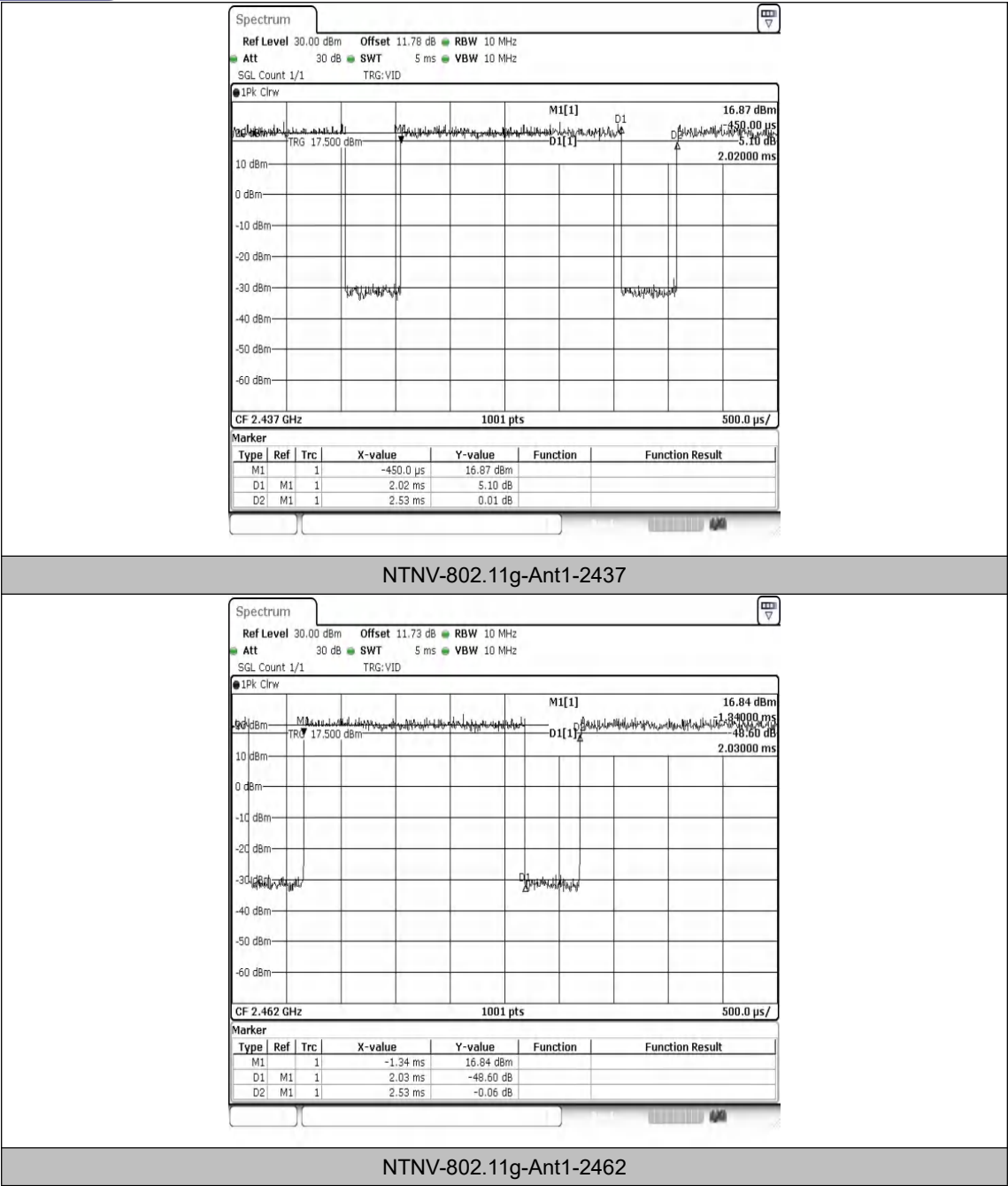


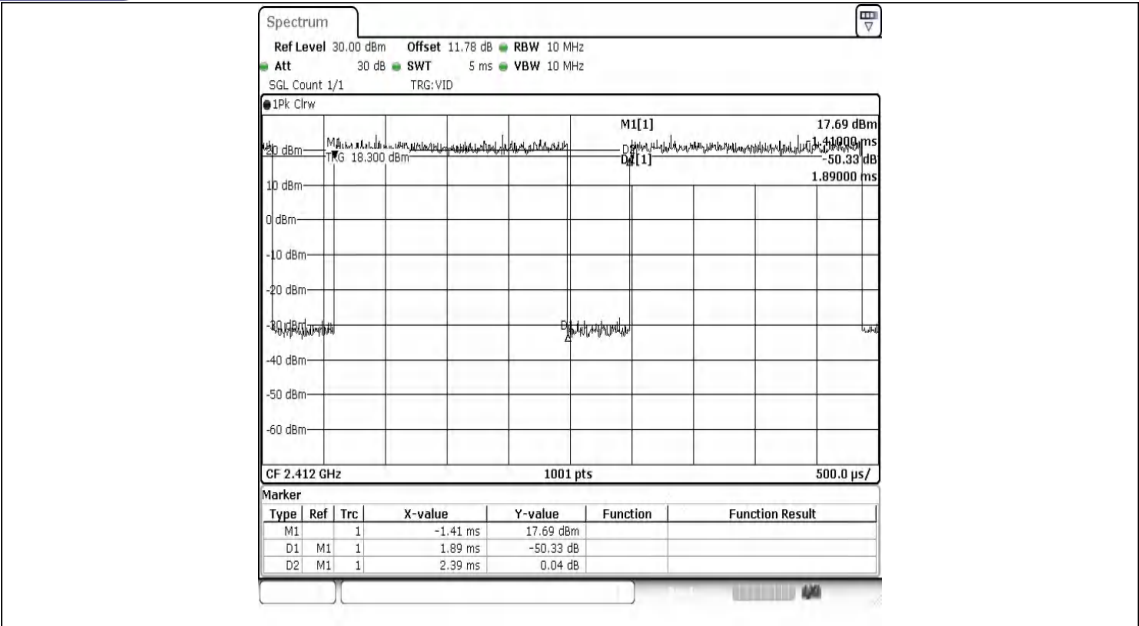
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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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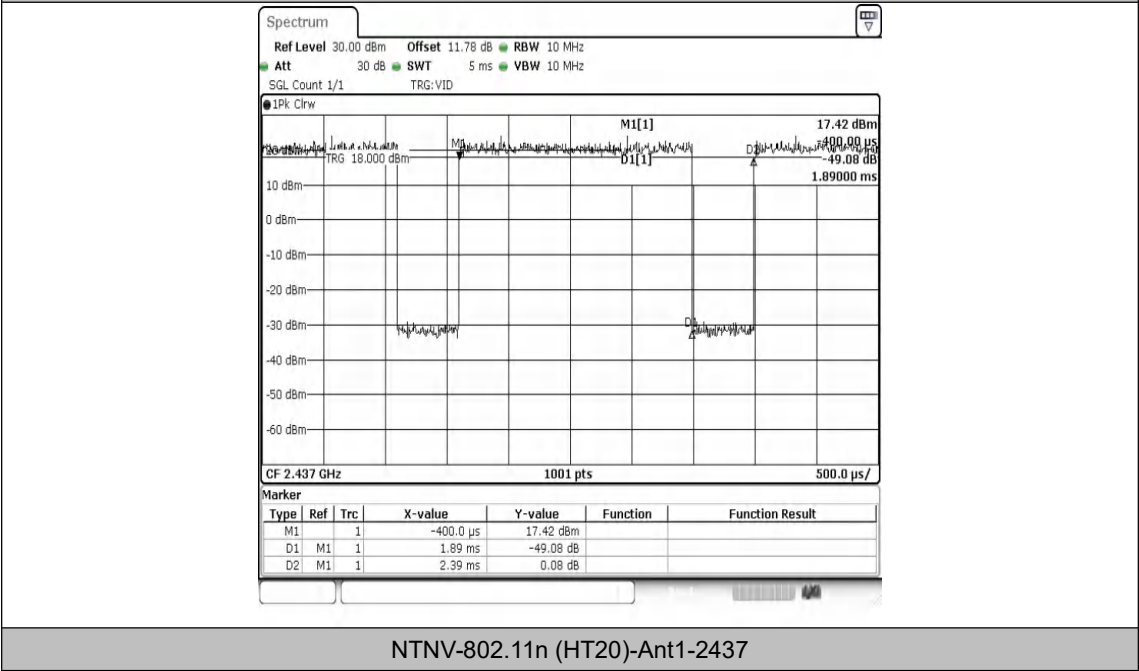
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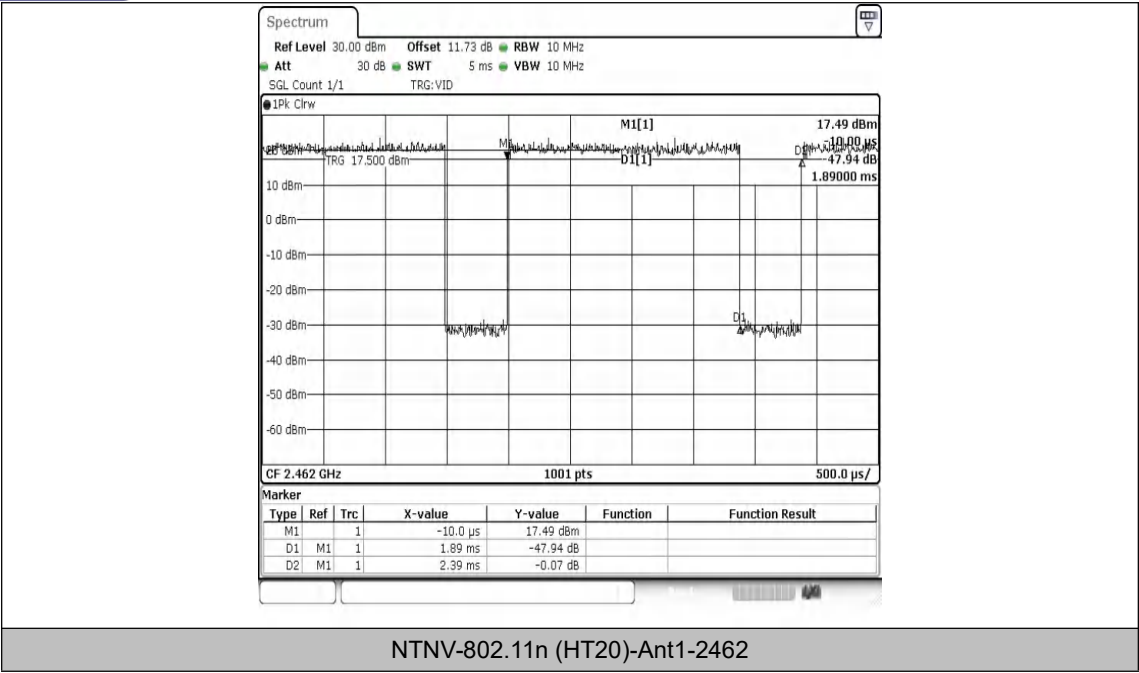


NTNV-802.11n (HT20)-Ant1-2412



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