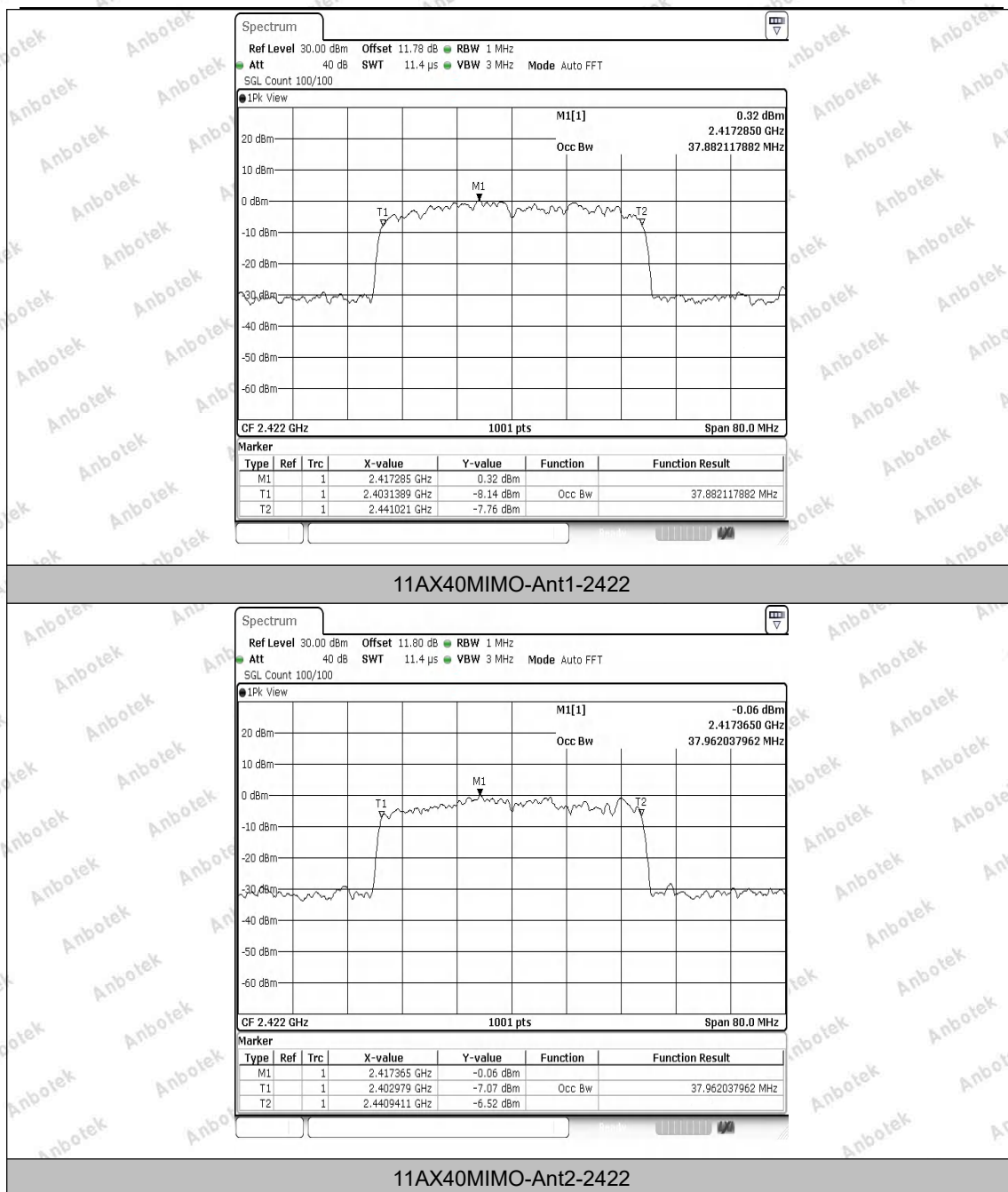
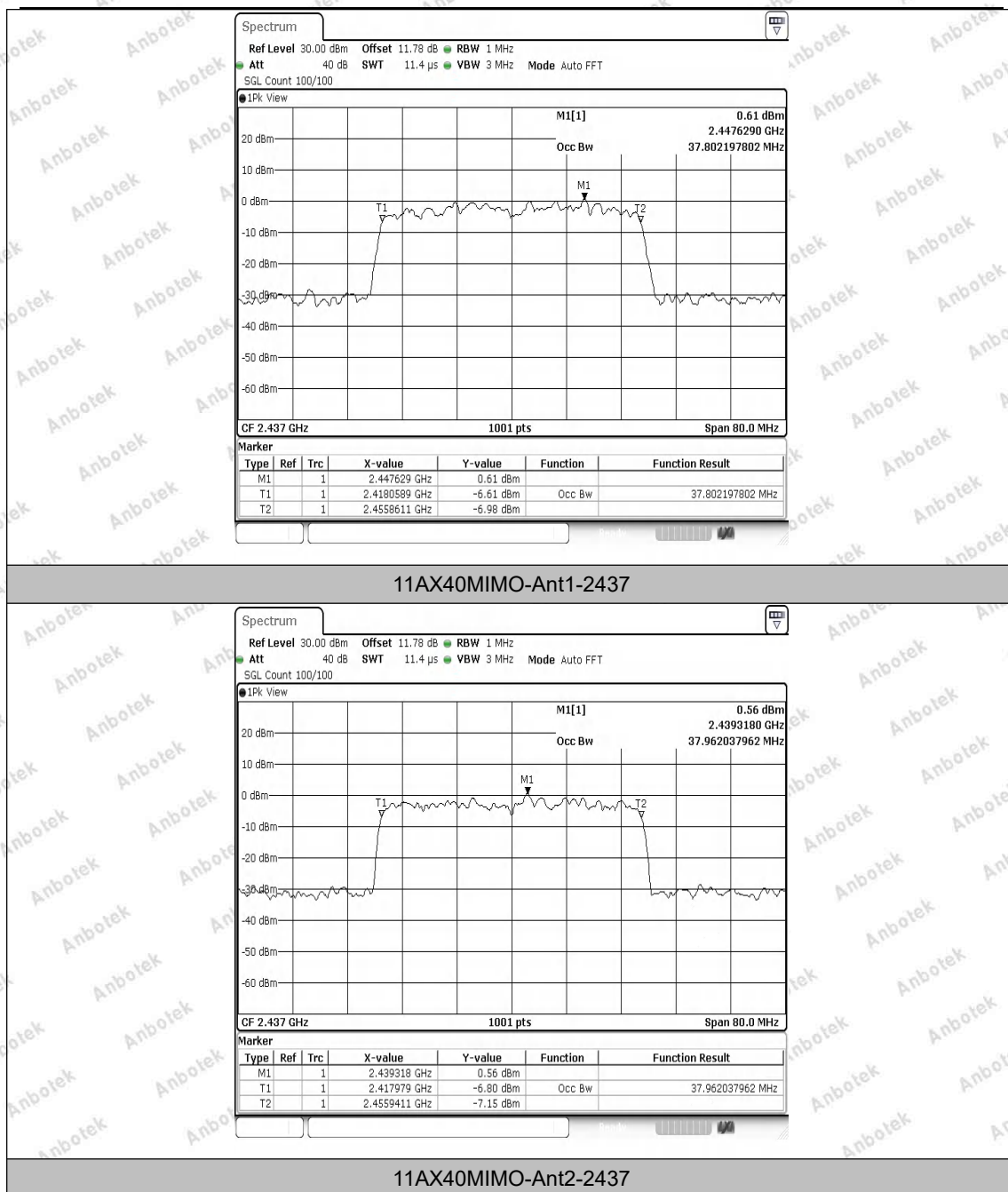
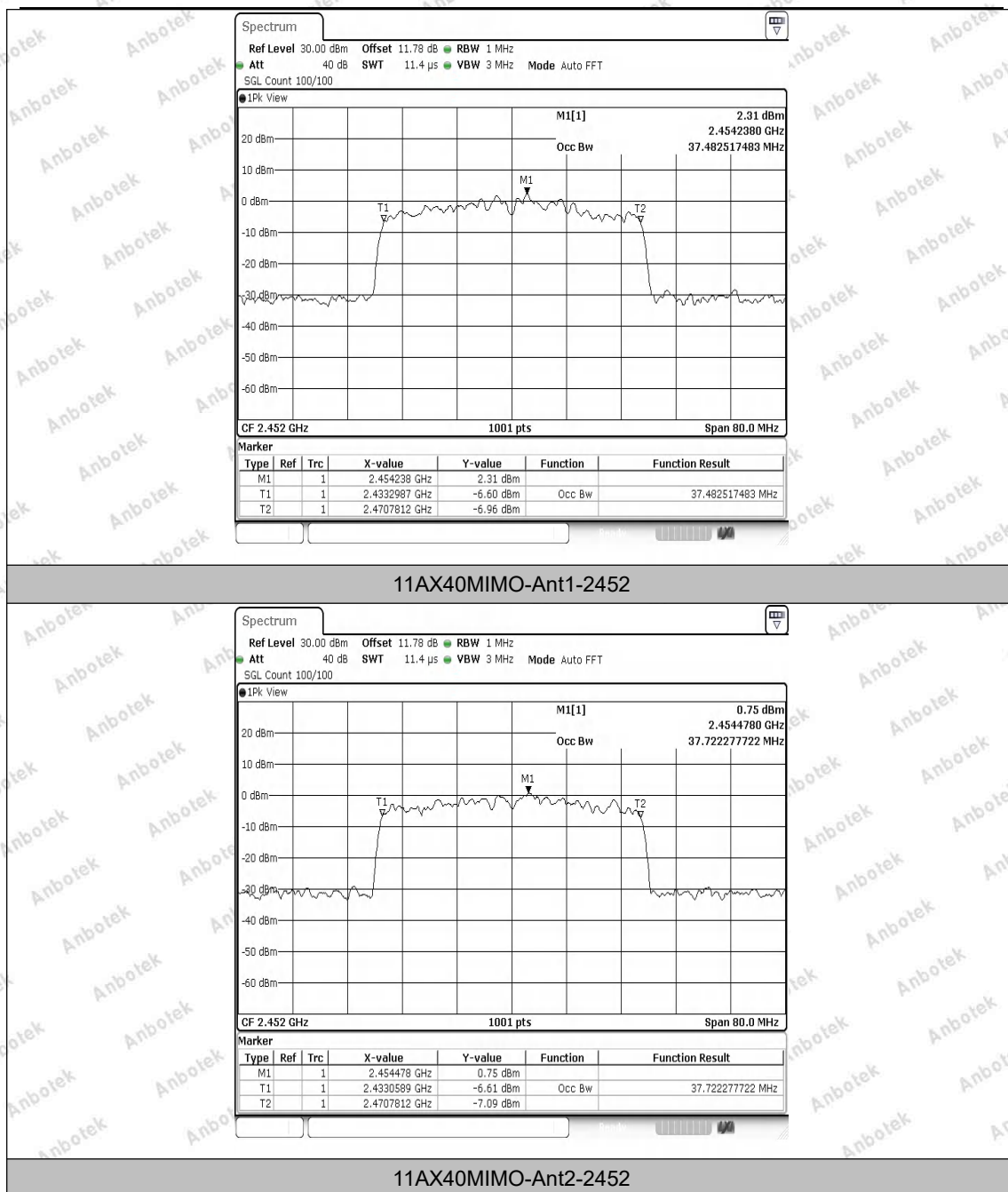








Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.07	94.17	0.26	14.33	≤30.00	PASS
11B	Ant2	2412	12.96	94.28	0.26	13.22	≤30.00	PASS
11B	Ant1	2437	13.68	94.05	0.27	13.95	≤30.00	PASS
11B	Ant2	2437	12.60	94.06	0.27	12.87	≤30.00	PASS
11B	Ant1	2462	12.79	94.05	0.27	13.06	≤30.00	PASS
11B	Ant2	2462	11.63	94.16	0.26	11.89	≤30.00	PASS
11G	Ant1	2412	12.79	72.02	1.43	14.22	≤30.00	PASS
11G	Ant2	2412	12.53	72.77	1.38	13.91	≤30.00	PASS
11G	Ant1	2437	12.29	72.02	1.43	13.72	≤30.00	PASS
11G	Ant2	2437	12.09	72.16	1.42	13.51	≤30.00	PASS
11G	Ant1	2462	11.43	72.02	1.43	12.86	≤30.00	PASS
11G	Ant2	2462	11.16	72.02	1.43	12.59	≤30.00	PASS
11N20MIMO	Ant1	2412	12.15	70.27	1.53	13.68	≤30.00	PASS
11N20MIMO	Ant2	2412	9.99	70.27	1.53	11.52	≤30.00	PASS
11N20MIMO	total	2412	---	---	---	15.74	≤30.00	PASS
11N20MIMO	Ant1	2437	11.75	70.65	1.51	13.26	≤30.00	PASS
11N20MIMO	Ant2	2437	9.87	70.65	1.51	11.38	≤30.00	PASS
11N20MIMO	total	2437	---	---	---	15.43	≤30.00	PASS
11N20MIMO	Ant1	2462	10.89	71.43	1.46	12.35	≤30.00	PASS
11N20MIMO	Ant2	2462	9.08	70.65	1.51	10.59	≤30.00	PASS
11N20MIMO	total	2462	---	---	---	14.57	≤30.00	PASS
11N40MIMO	Ant1	2422	10.05	55.17	2.58	12.63	≤30.00	PASS
11N40MIMO	Ant2	2422	9.81	55.17	2.58	12.39	≤30.00	PASS
11N40MIMO	total	2422	---	---	---	15.52	≤30.00	PASS
11N40MIMO	Ant1	2437	10.08	55.08	2.59	12.67	≤30.00	PASS
11N40MIMO	Ant2	2437	9.84	54.24	2.66	12.50	≤30.00	PASS
11N40MIMO	total	2437	---	---	---	15.60	≤30.00	PASS
11N40MIMO	Ant1	2452	9.59	54.62	2.63	12.22	≤30.00	PASS
11N40MIMO	Ant2	2452	9.34	56.14	2.51	11.85	≤30.00	PASS
11N40MIMO	total	2452	---	---	---	15.05	≤30.00	PASS
11AX20MIMO	Ant1	2412	10.34	68.46	1.65	11.99	≤30.00	PASS
11AX20MIMO	Ant2	2412	11.17	65.16	1.86	13.03	≤30.00	PASS
11AX20MIMO	total	2412	---	---	---	15.55	≤30.00	PASS
11AX20MIMO	Ant1	2437	11.04	66.01	1.80	12.84	≤30.00	PASS
11AX20MIMO	Ant2	2437	11.01	65.38	1.85	12.86	≤30.00	PASS
11AX20MIMO	total	2437	---	---	---	15.86	≤30.00	PASS

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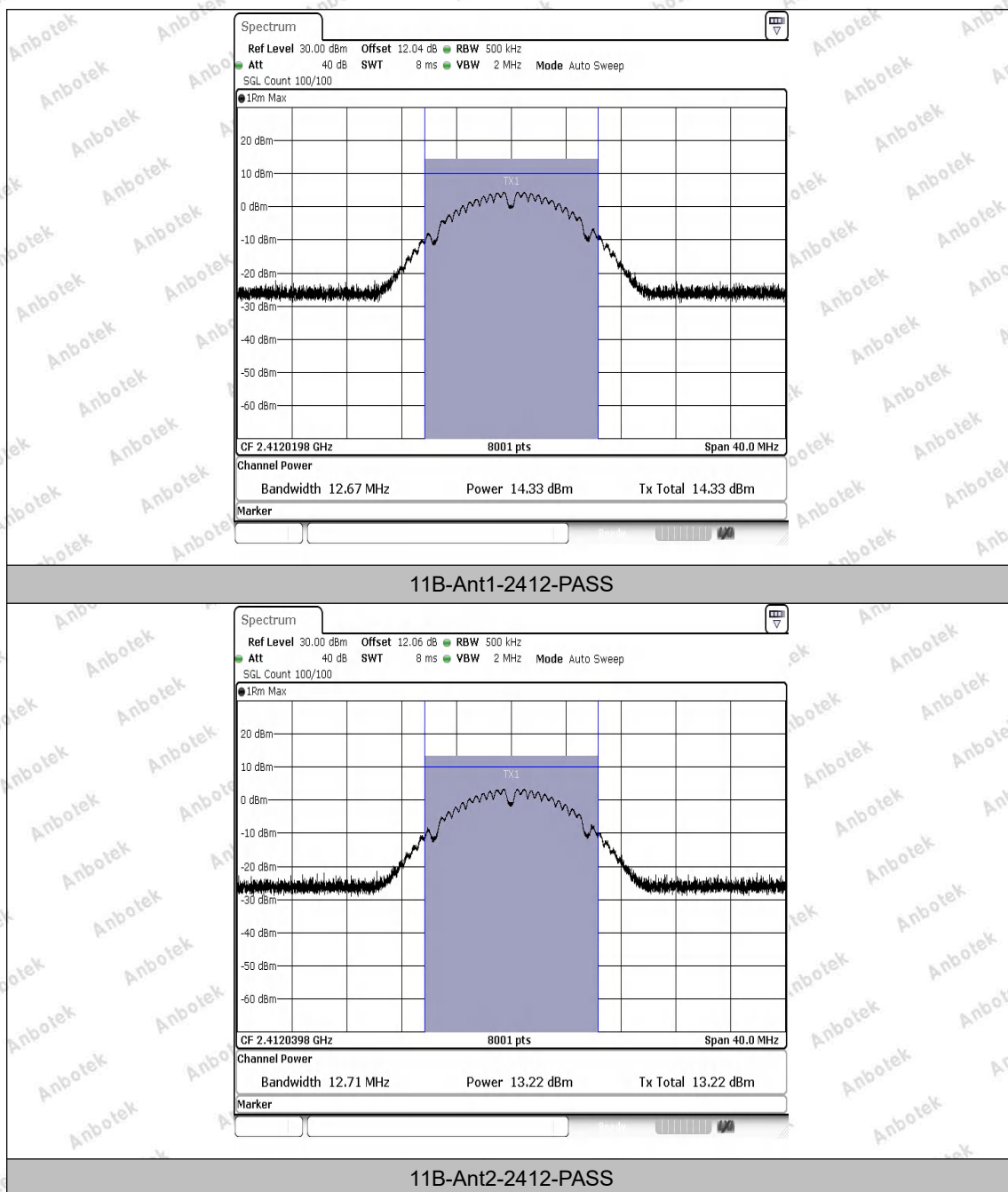
11AX20MIMO	Ant1	2462	10.32	65.38	1.85	12.17	≤30.00	PASS
11AX20MIMO	Ant2	2462	10.20	65.16	1.86	12.06	≤30.00	PASS
11AX20MIMO	total	2462	---	---	---	15.13	≤30.00	PASS
11AX40MIMO	Ant1	2422	9.89	50.00	3.01	12.90	≤30.00	PASS
11AX40MIMO	Ant2	2422	11.75	50.00	3.01	14.76	≤30.00	PASS
11AX40MIMO	total	2422	---	---	---	16.94	≤30.00	PASS
11AX40MIMO	Ant1	2437	9.94	49.53	3.05	12.99	≤30.00	PASS
11AX40MIMO	Ant2	2437	11.80	50.48	2.97	14.77	≤30.00	PASS
11AX40MIMO	total	2437	---	---	---	16.98	≤30.00	PASS
11AX40MIMO	Ant1	2452	9.38	50.00	3.01	12.39	≤30.00	PASS
11AX40MIMO	Ant2	2452	11.29	49.53	3.05	14.34	≤30.00	PASS
11AX40MIMO	total	2452	---	---	---	16.48	≤30.00	PASS

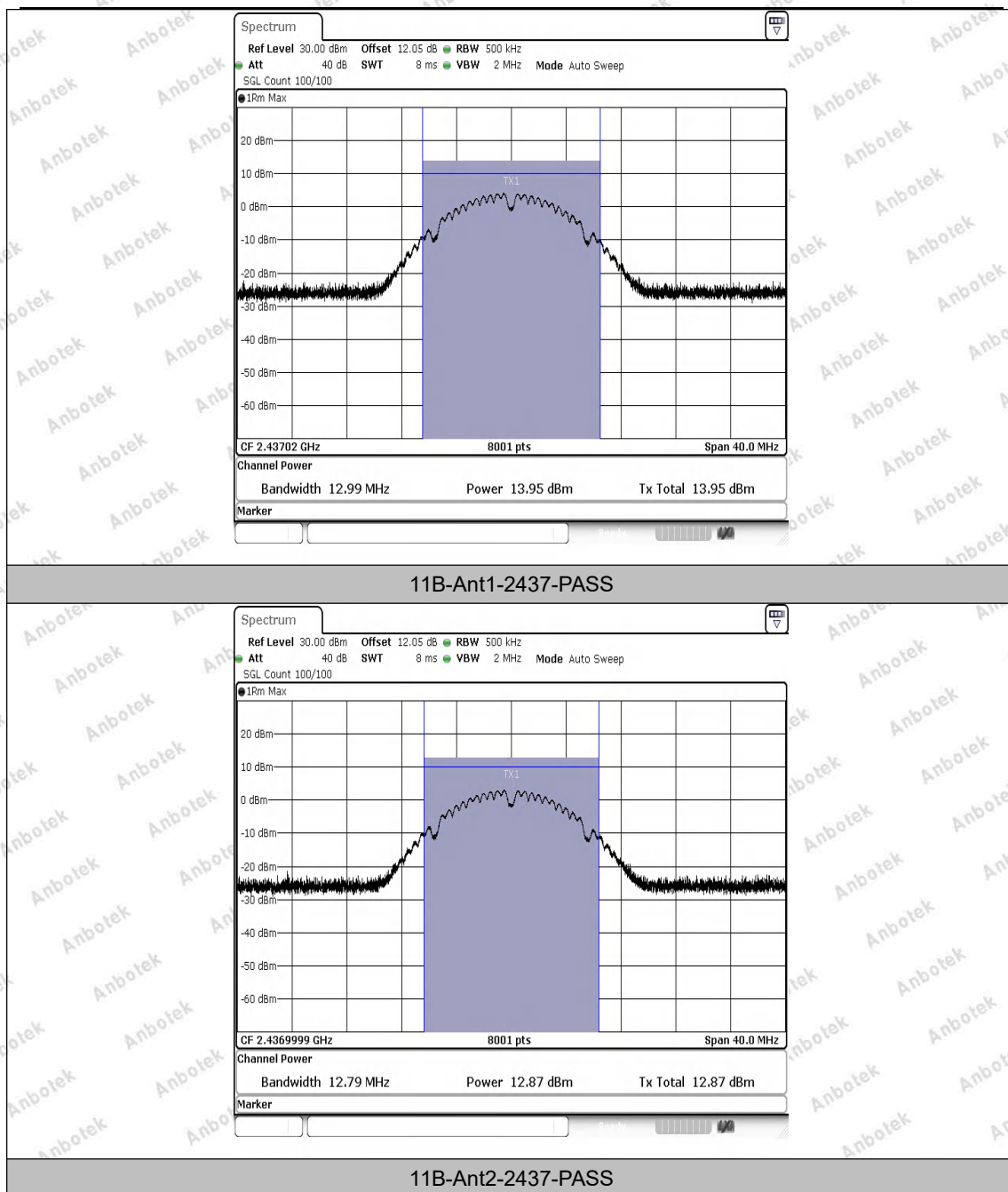
Note:

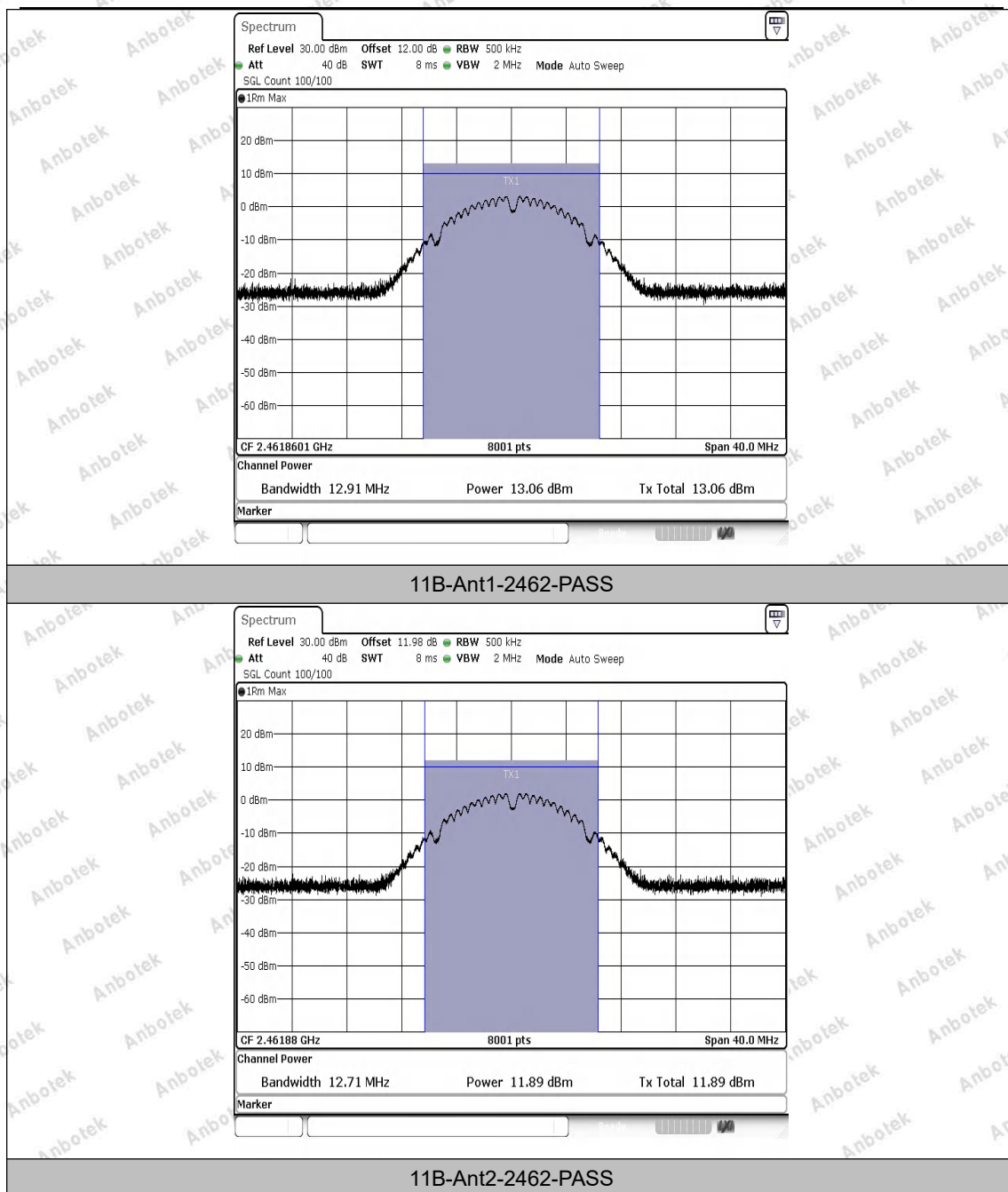
1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi= 5.69<6dBi,
so limit=30dBm.
- 3.NOTE: MIMO= $10 \cdot \log((10^{ANT1/10} + 10^{ANT2/10}))$

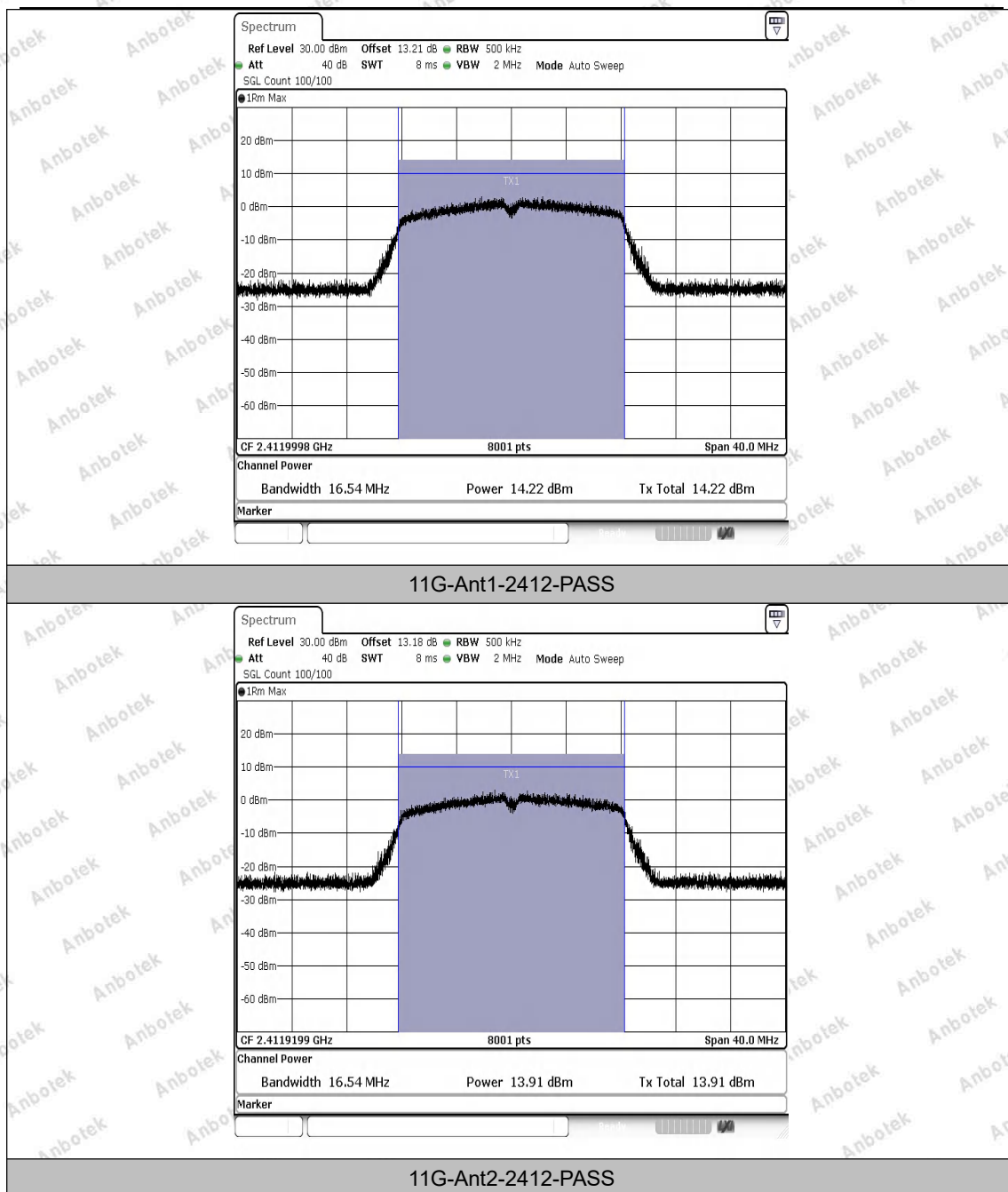


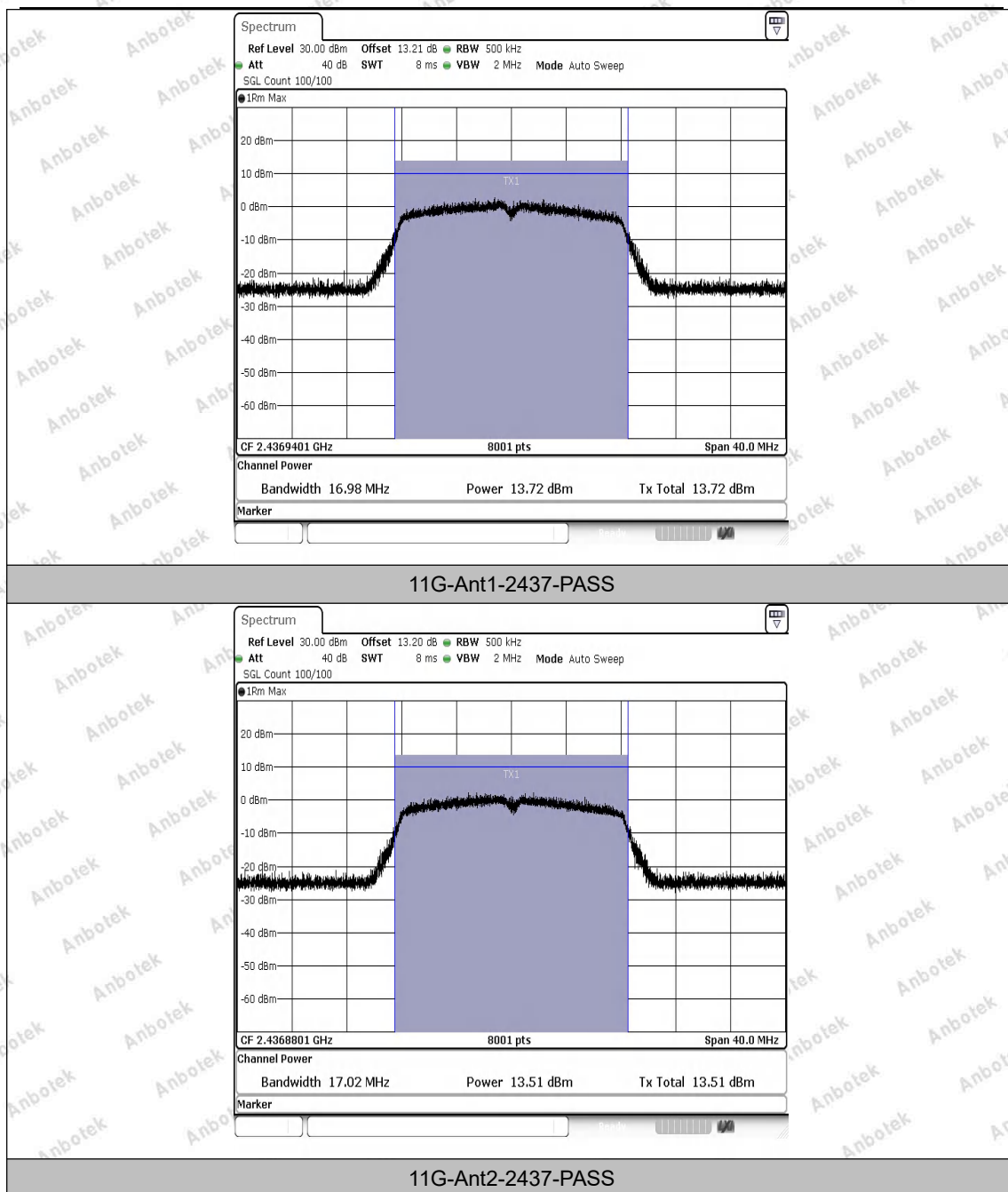
Test Graphs Average

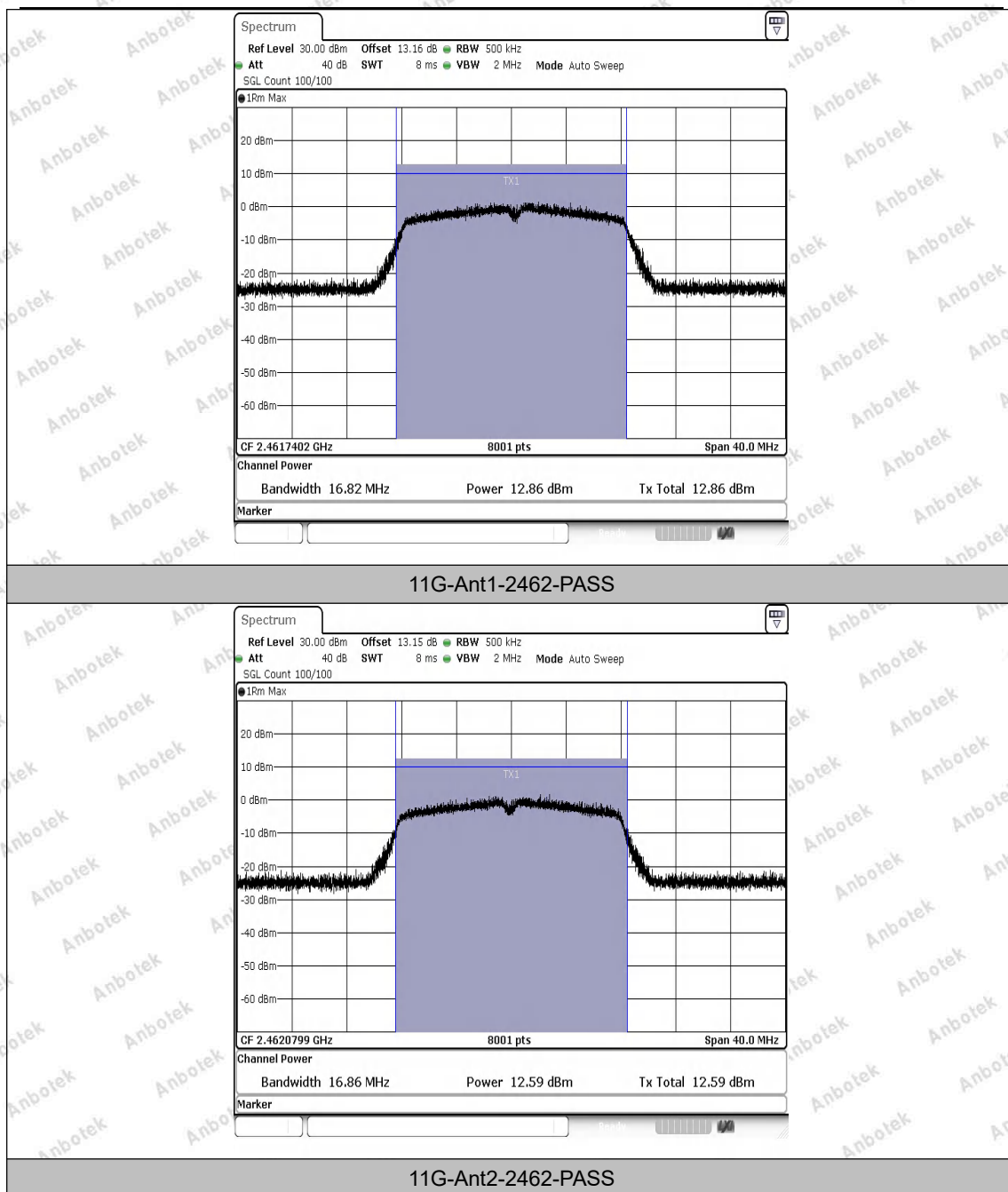


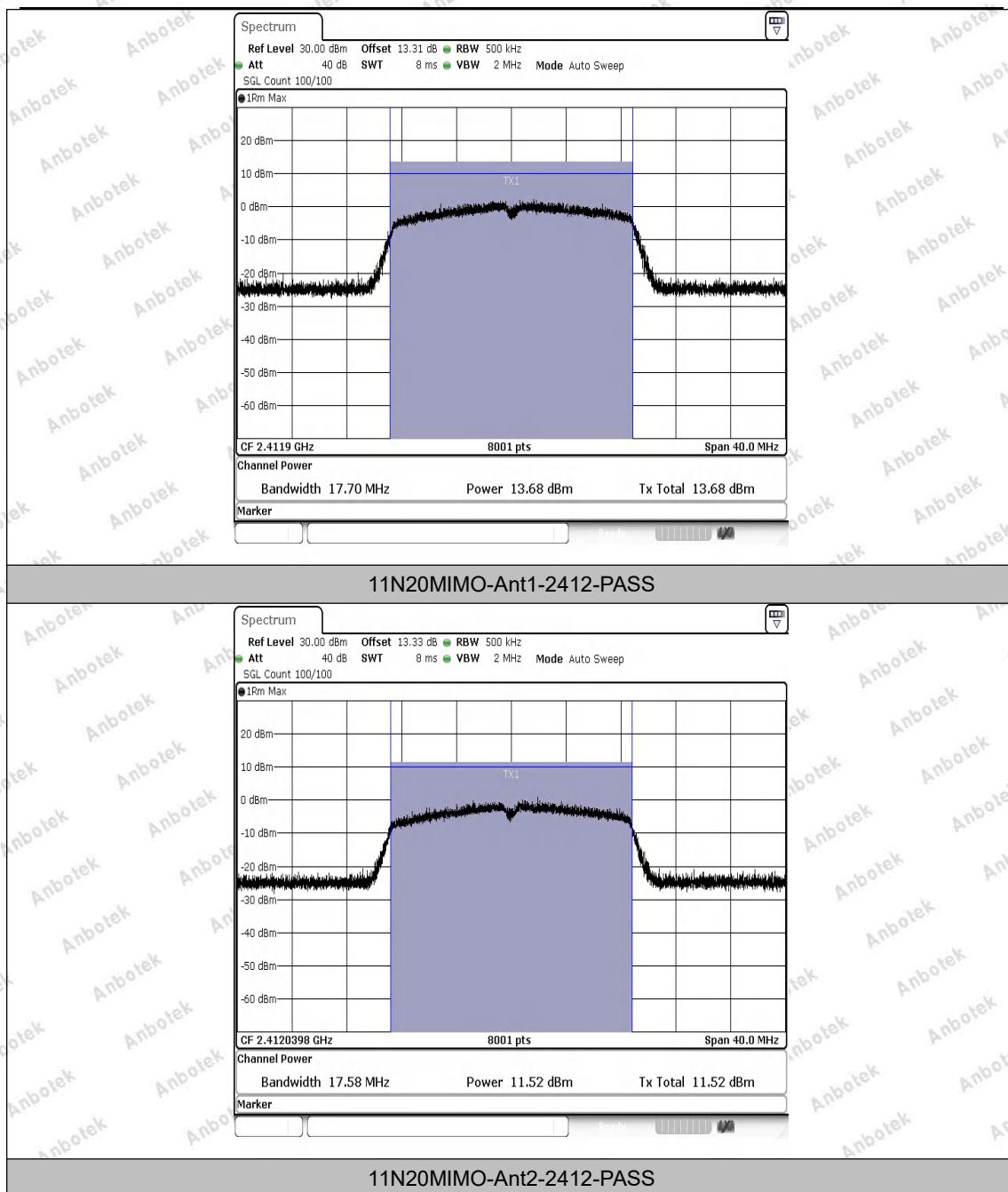


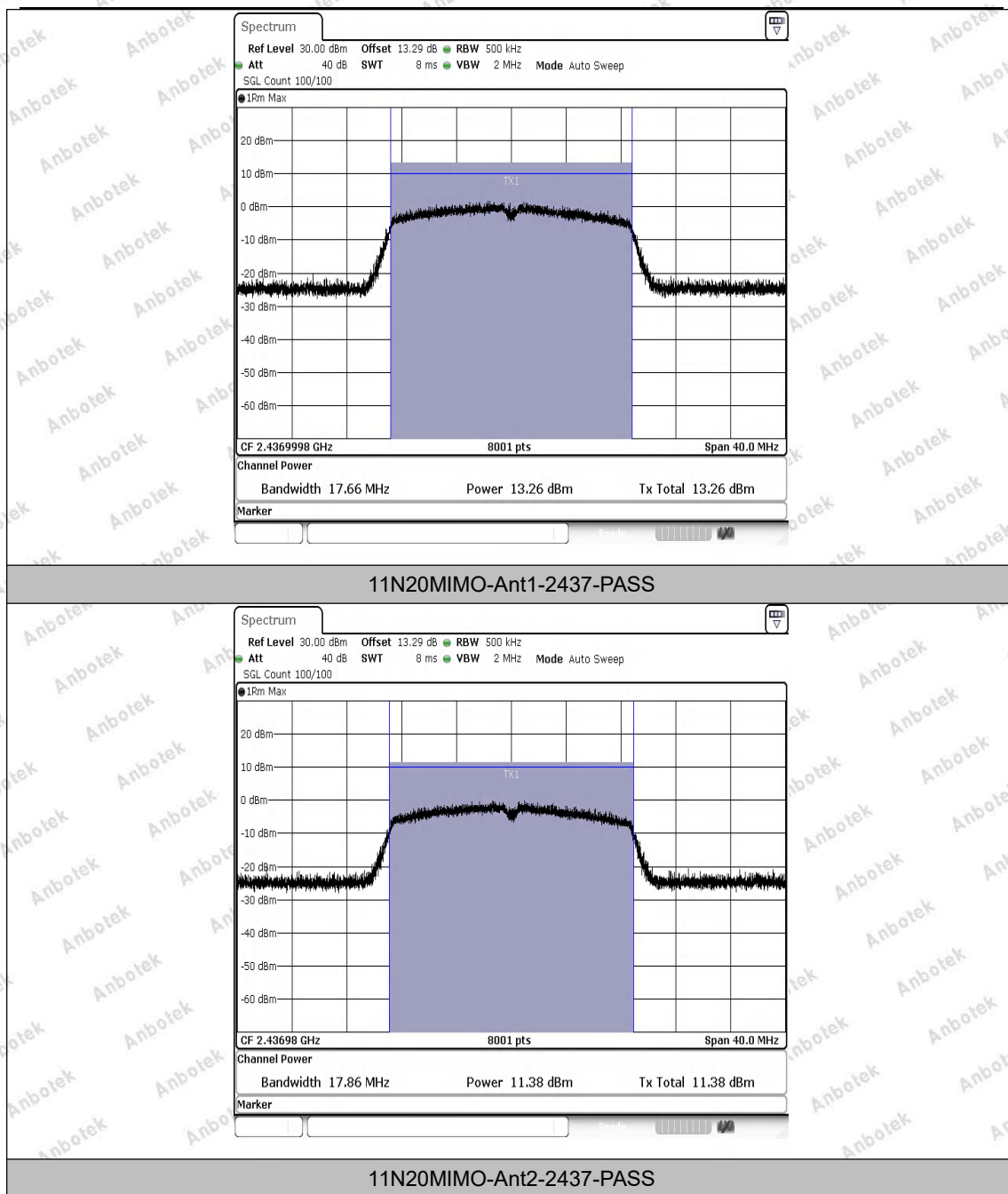


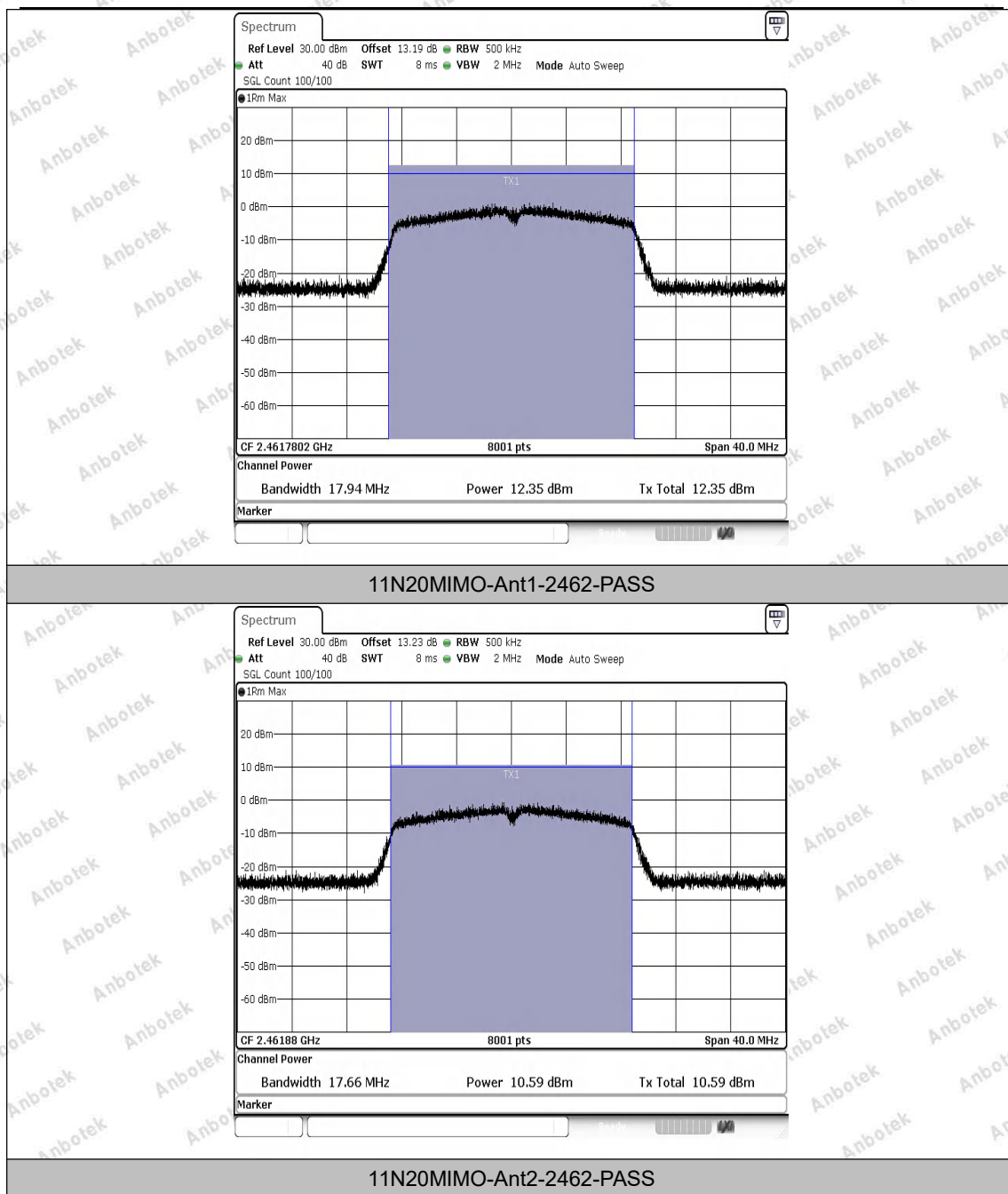


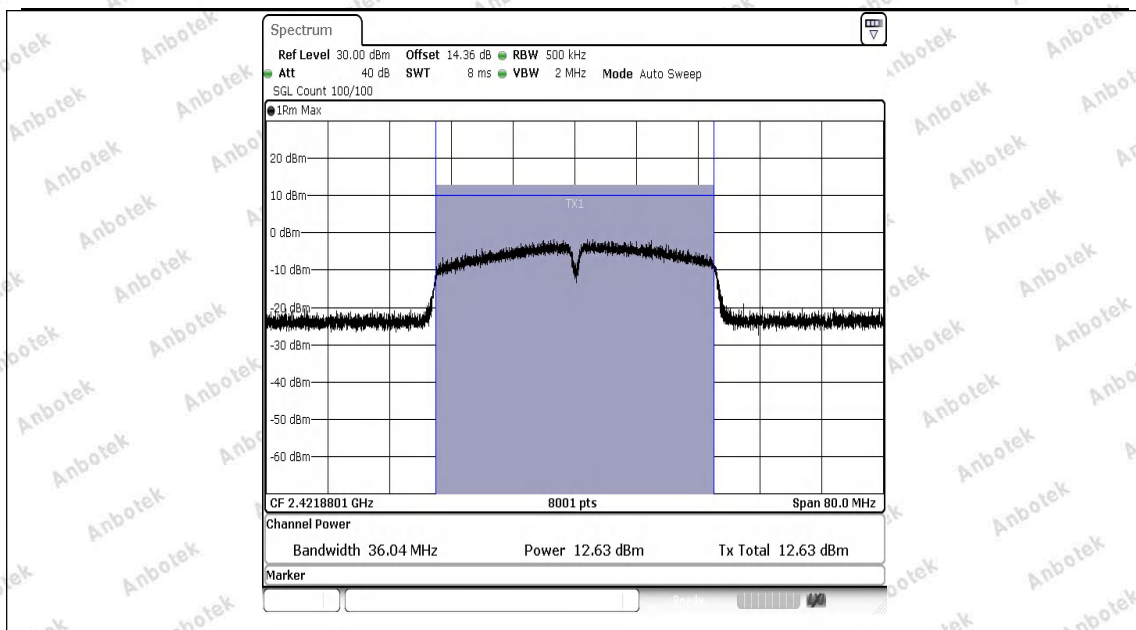




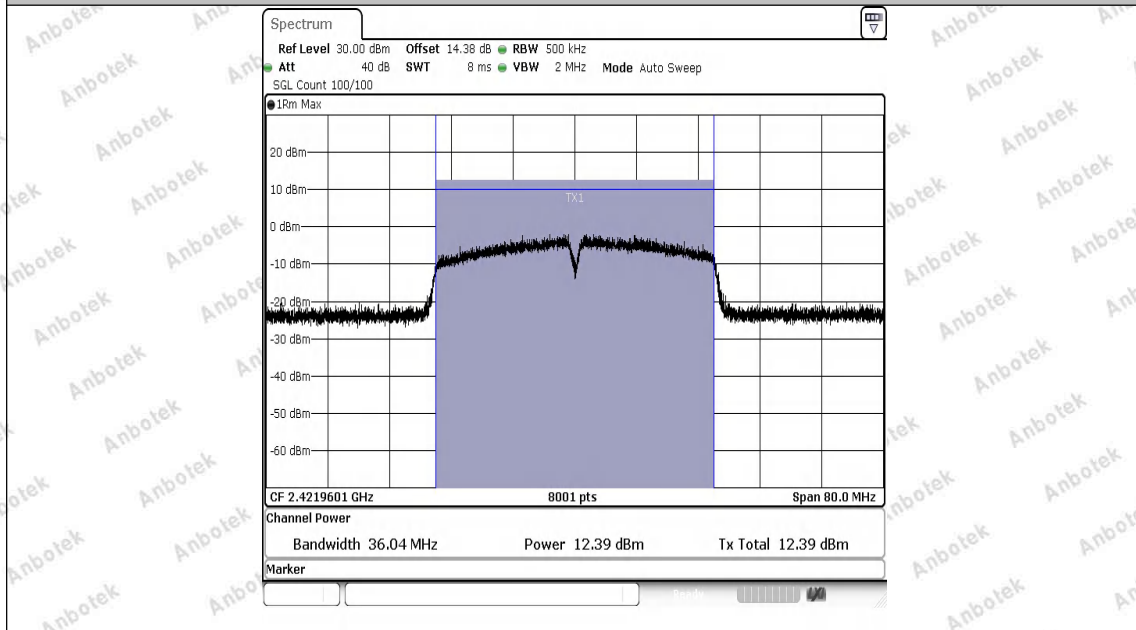






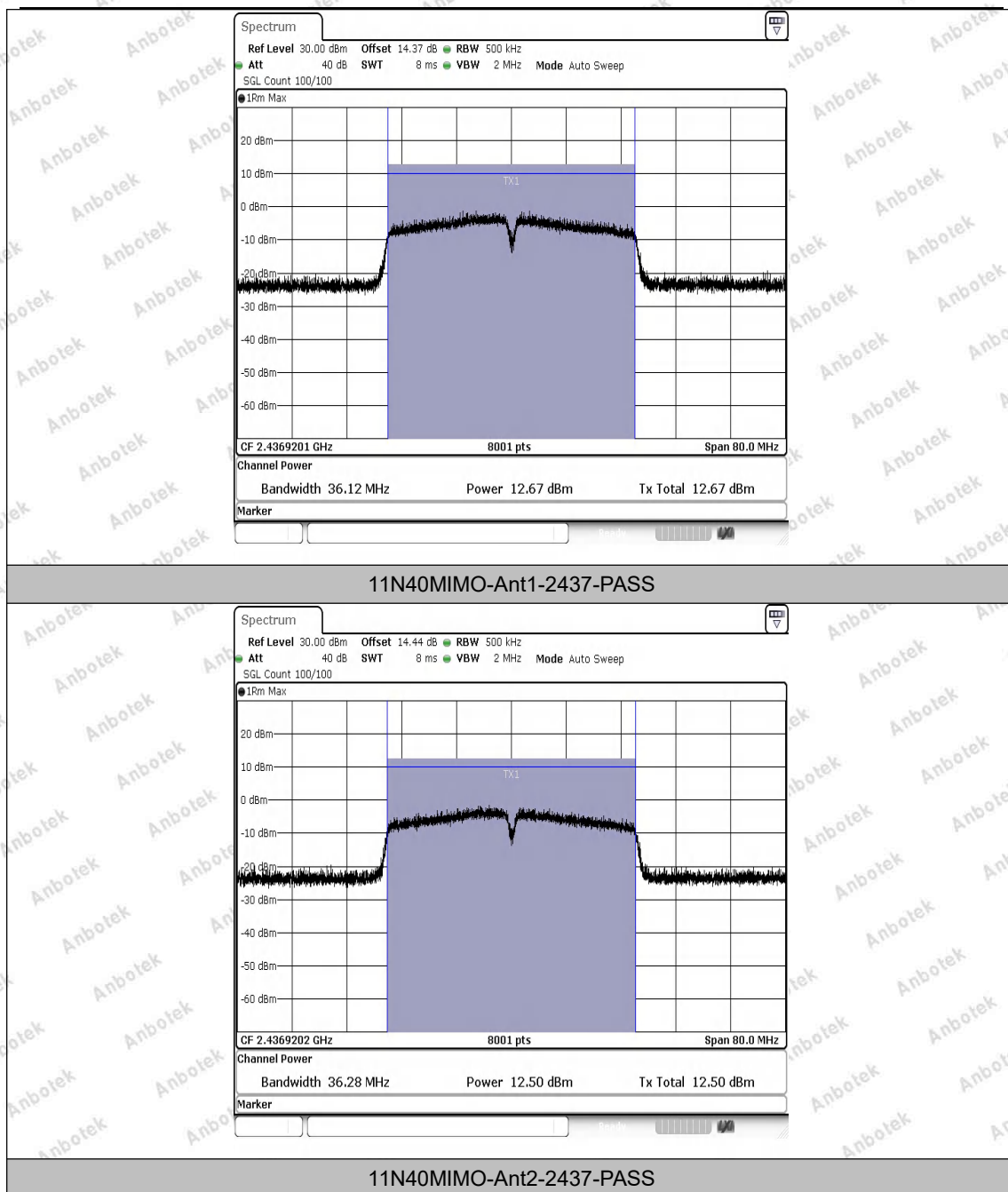


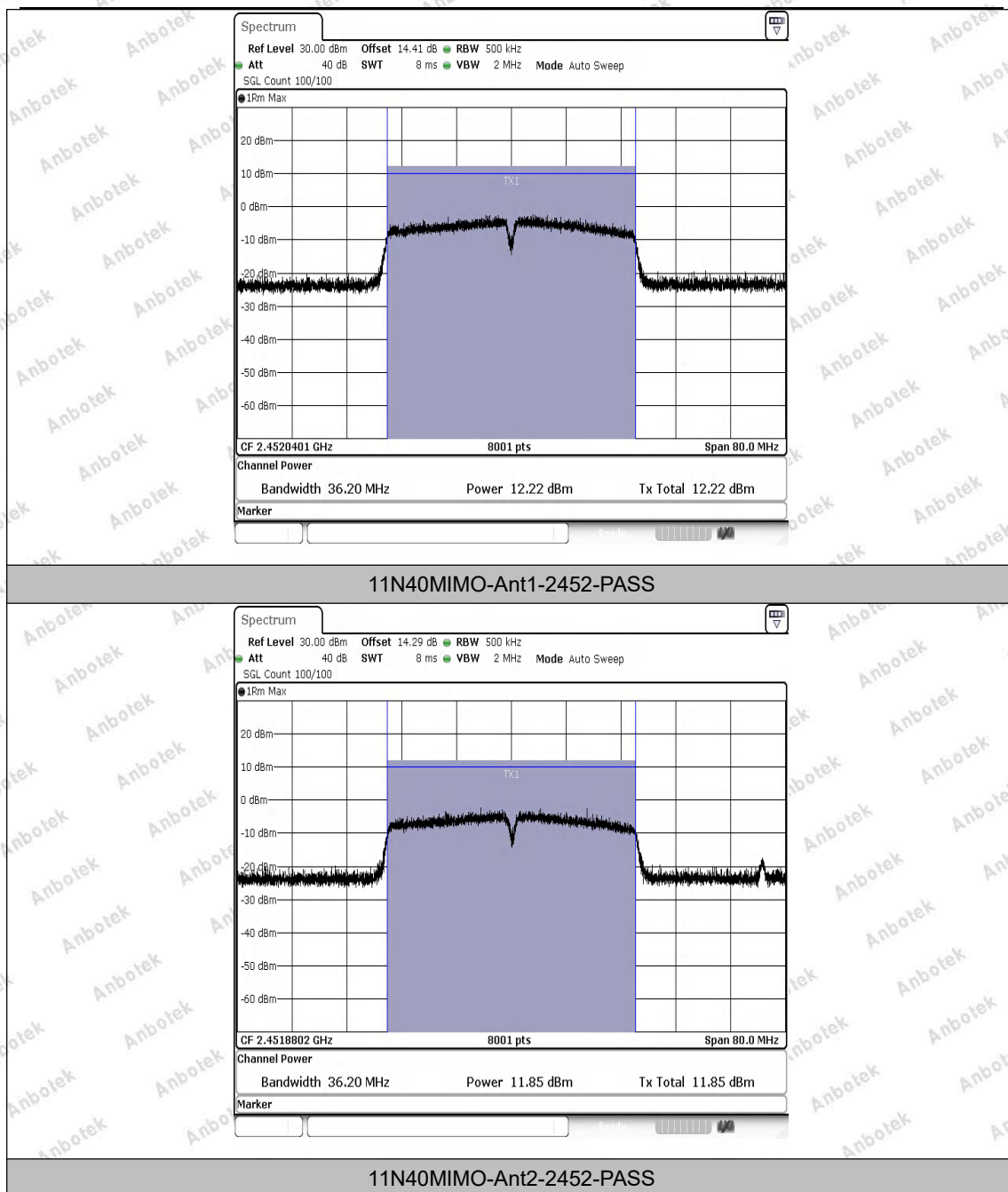
11N40MIMO-Ant1-2422-PASS

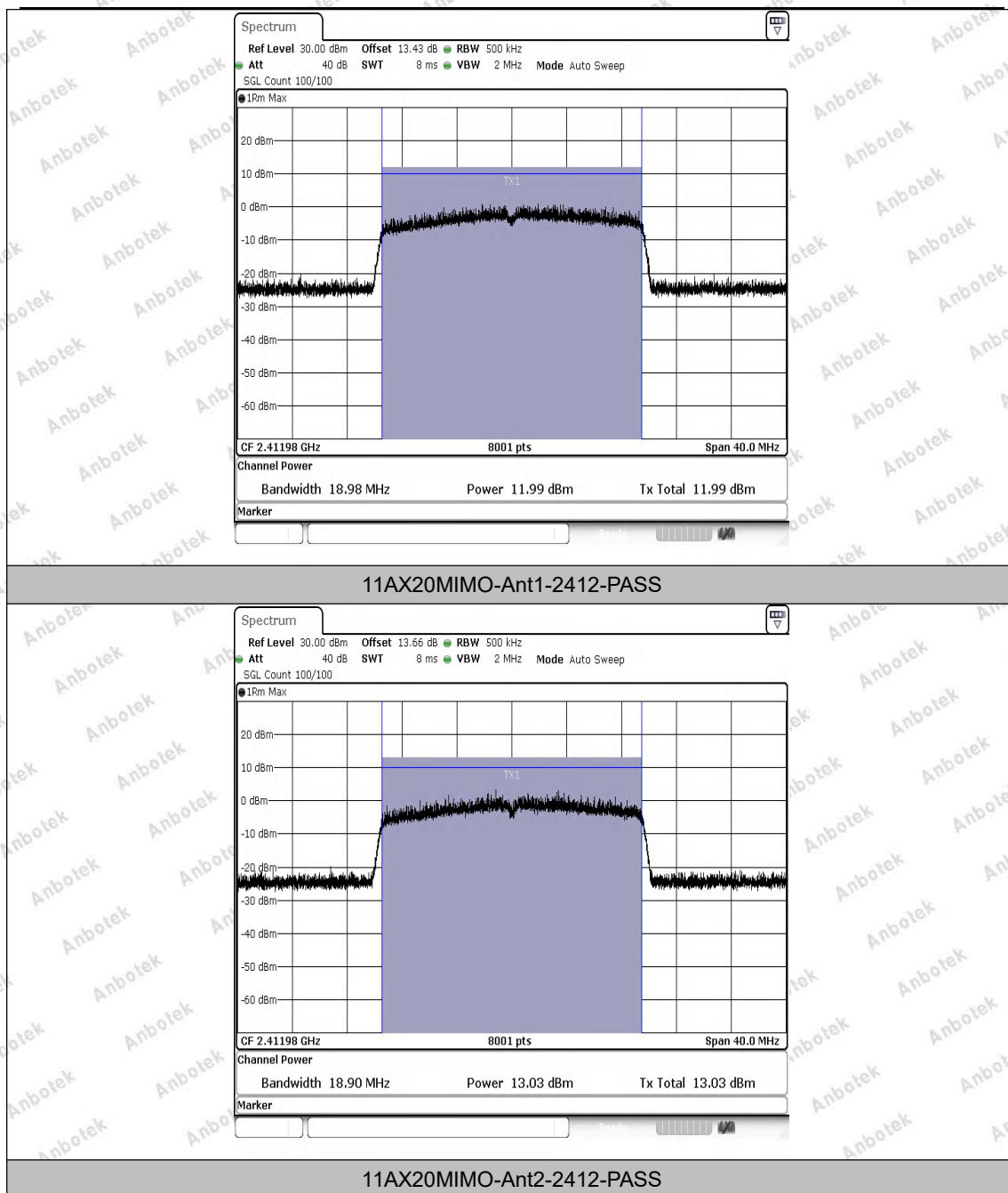


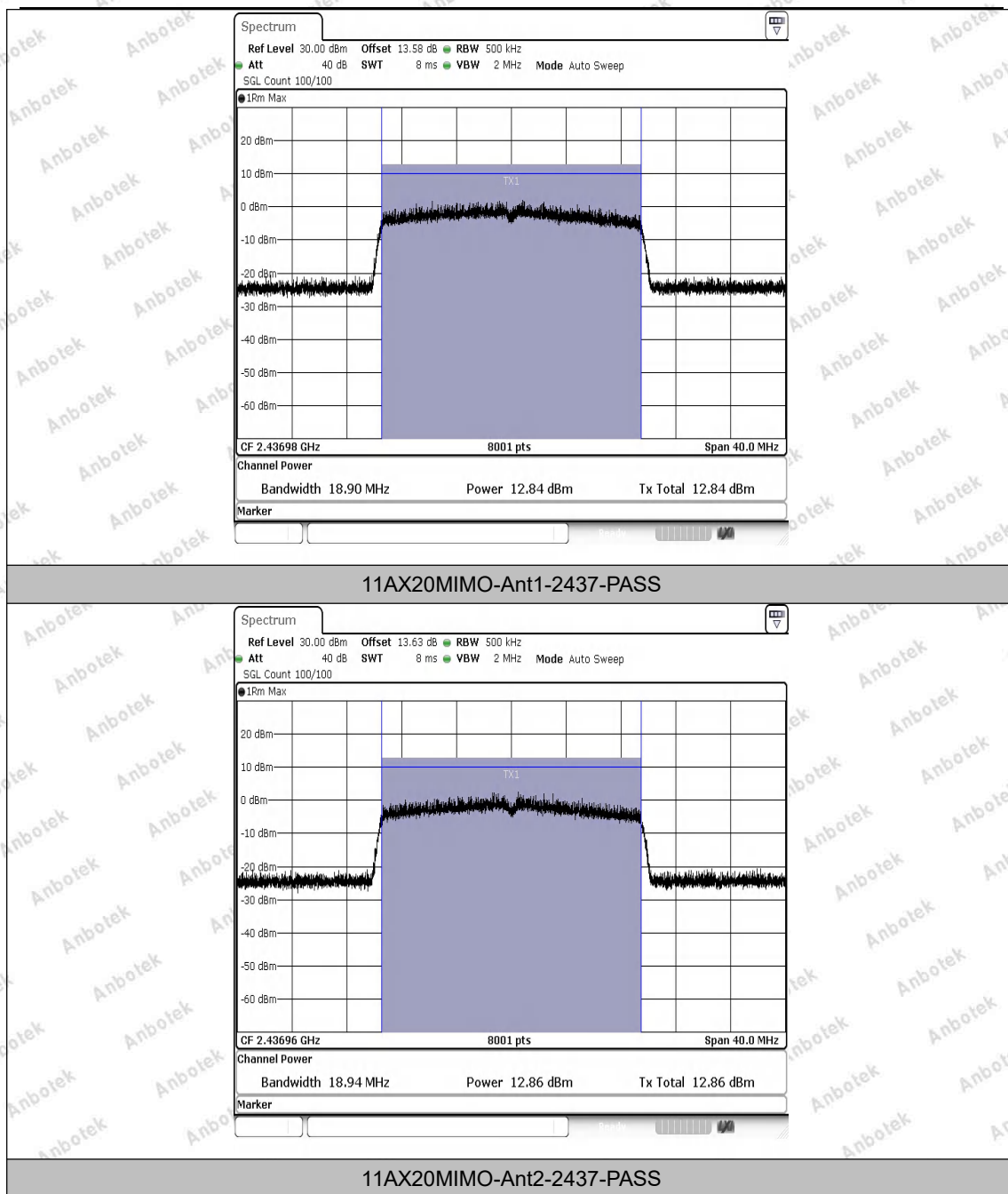
11N40MIMO-Ant2-2422-PASS

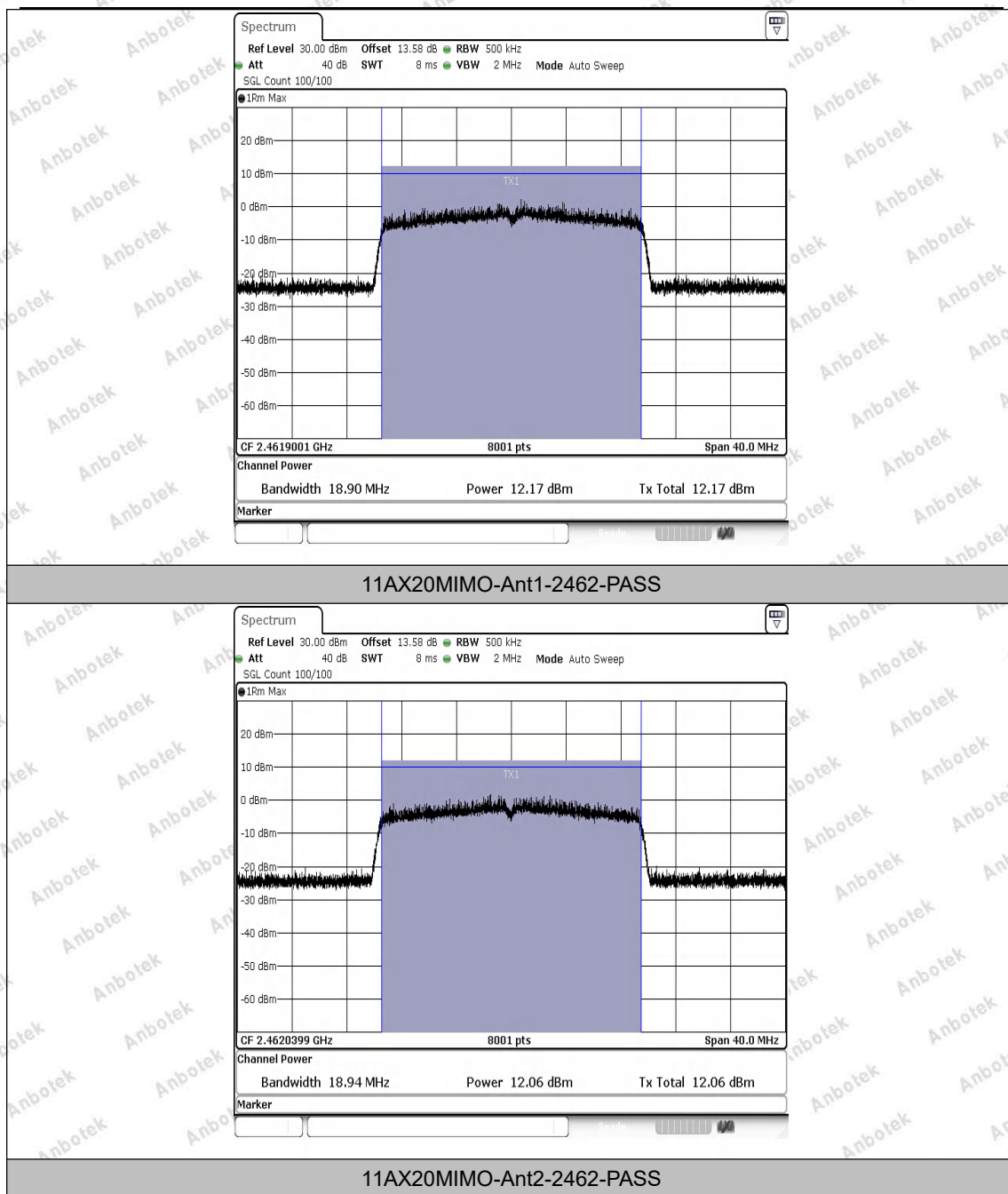


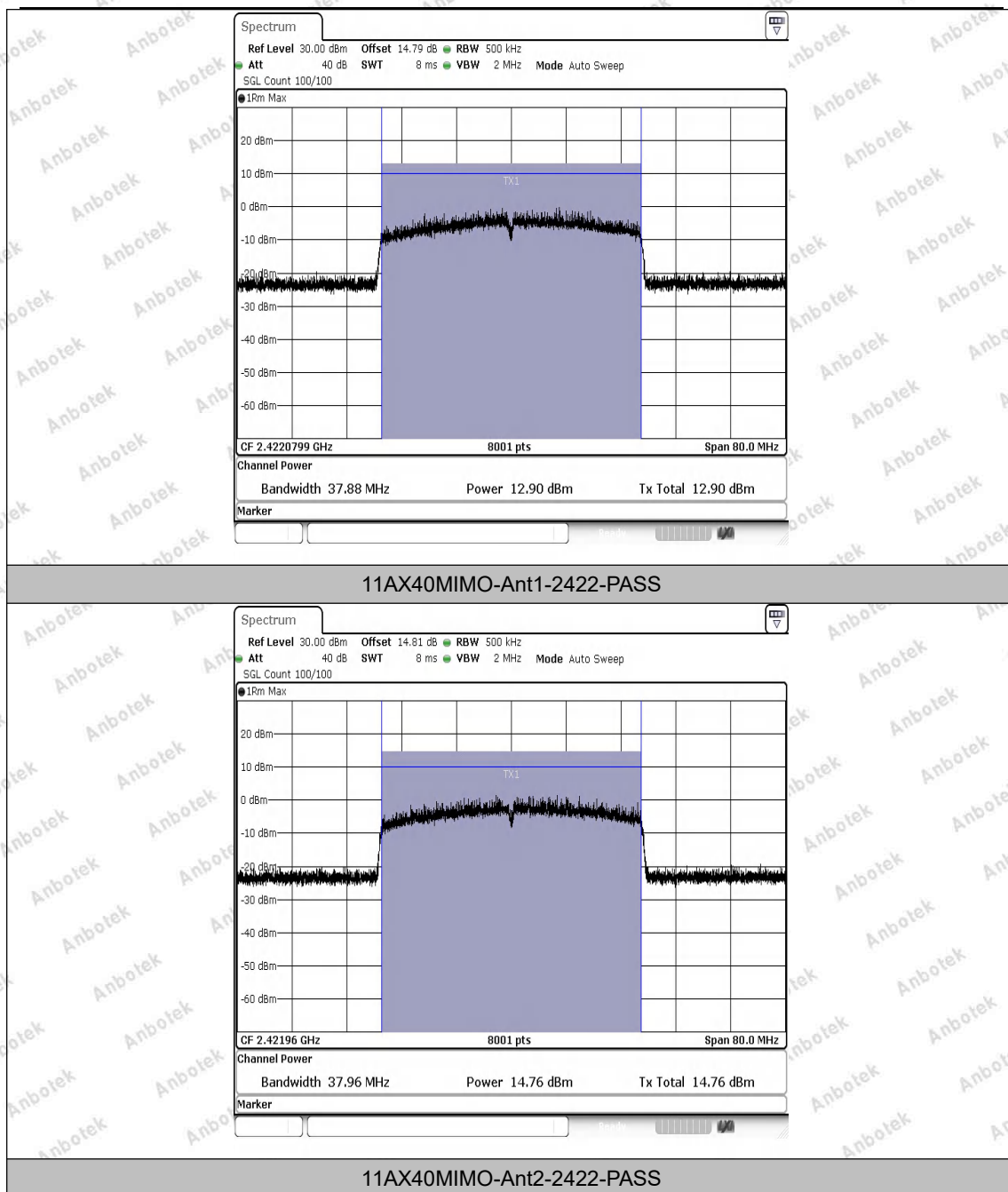


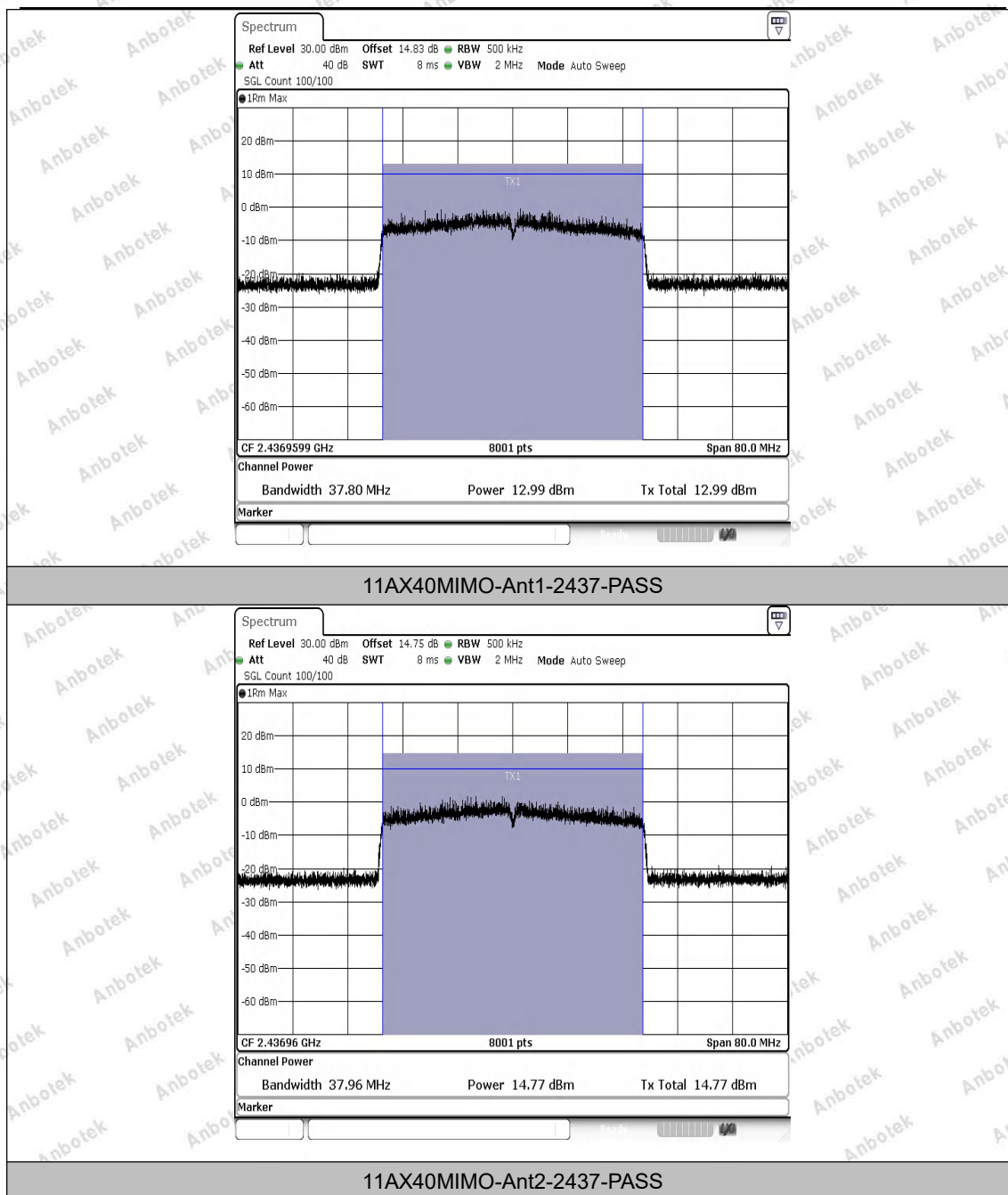


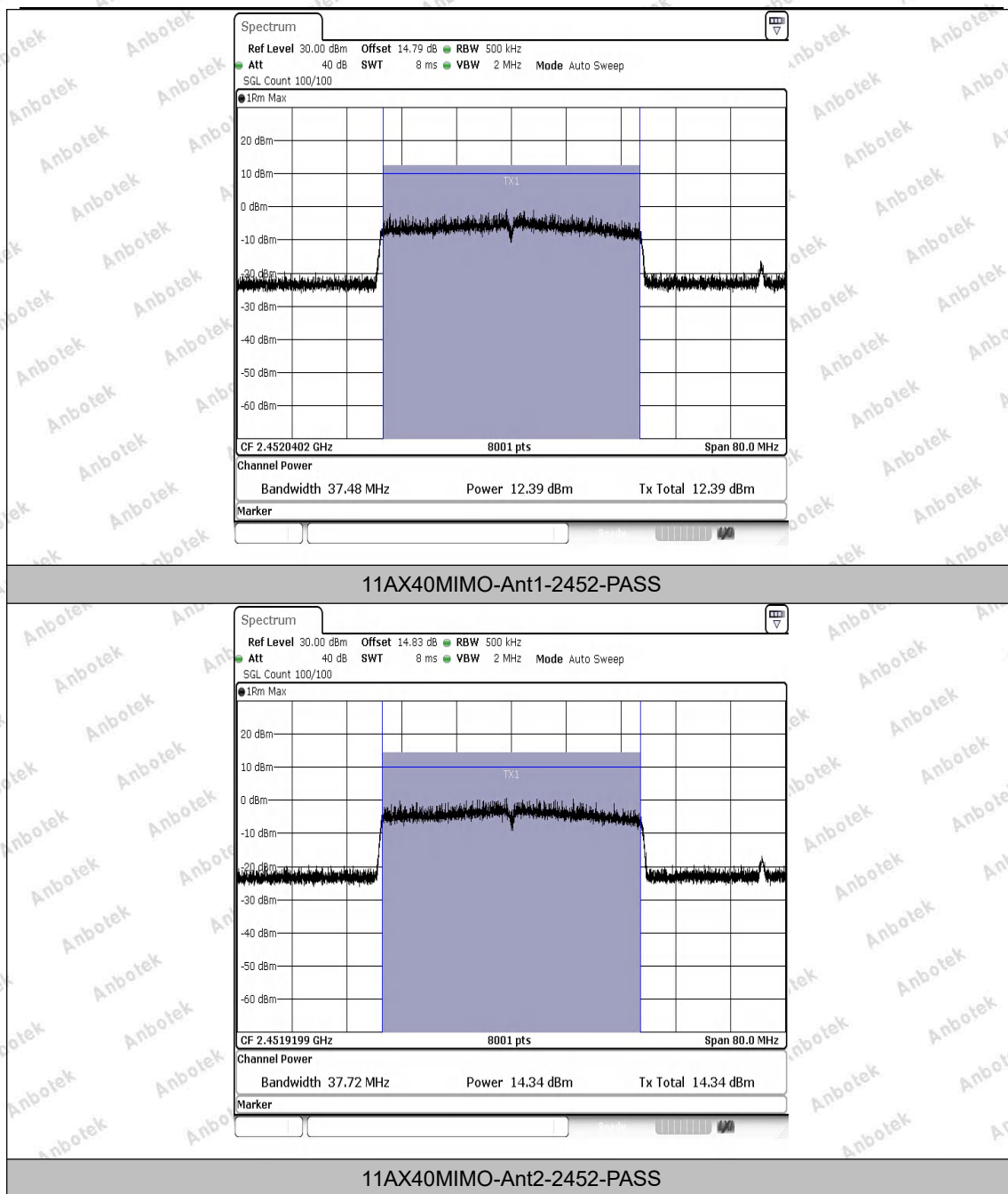












Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.42	-18.42	≤8.00	PASS
11B	Ant2	2412	-9.77	-19.77	≤8.00	PASS
11B	Ant1	2437	-9.48	-19.48	≤8.00	PASS
11B	Ant2	2437	-10.96	-20.96	≤8.00	PASS
11B	Ant1	2462	-10.01	-20.01	≤8.00	PASS
11B	Ant2	2462	-11.28	-21.28	≤8.00	PASS
11G	Ant1	2412	-14.42	-24.42	≤8.00	PASS
11G	Ant2	2412	-14.34	-24.34	≤8.00	PASS
11G	Ant1	2437	-15.71	-25.71	≤8.00	PASS
11G	Ant2	2437	-16.54	-26.54	≤8.00	PASS
11G	Ant1	2462	-16.13	-26.13	≤8.00	PASS
11G	Ant2	2462	-16.25	-26.25	≤8.00	PASS
11N20MIMO	Ant1	2412	-13.99	-23.99	≤8.00	PASS
11N20MIMO	Ant2	2412	-14.93	-24.93	≤8.00	PASS
11N20MIMO	total	2412	-11.42	-21.42	≤8.00	PASS
11N20MIMO	Ant1	2437	-16.26	-26.26	≤8.00	PASS
11N20MIMO	Ant2	2437	-16.42	-26.42	≤8.00	PASS
11N20MIMO	total	2437	-13.33	-23.33	≤8.00	PASS
11N20MIMO	Ant1	2462	-16.32	-26.32	≤8.00	PASS
11N20MIMO	Ant2	2462	-16.22	-26.22	≤8.00	PASS
11N20MIMO	total	2462	-13.26	-23.26	≤8.00	PASS
11N40MIMO	Ant1	2422	-17.67	-27.67	≤8.00	PASS
11N40MIMO	Ant2	2422	-17.93	-27.93	≤8.00	PASS
11N40MIMO	total	2422	-14.79	-24.79	≤8.00	PASS
11N40MIMO	Ant1	2437	-19.11	-29.11	≤8.00	PASS
11N40MIMO	Ant2	2437	-19.21	-29.21	≤8.00	PASS
11N40MIMO	total	2437	-16.15	-26.15	≤8.00	PASS
11N40MIMO	Ant1	2452	-18.08	-28.08	≤8.00	PASS
11N40MIMO	Ant2	2452	-18.43	-28.43	≤8.00	PASS
11N40MIMO	total	2452	-15.24	-25.24	≤8.00	PASS
11AX20MIMO	Ant1	2412	-17.84	-27.84	≤8.00	PASS
11AX20MIMO	Ant2	2412	-17.83	-27.83	≤8.00	PASS
11AX20MIMO	total	2412	-14.82	-24.82	≤8.00	PASS
11AX20MIMO	Ant1	2437	-18.12	-28.12	≤8.00	PASS
11AX20MIMO	Ant2	2437	-16.41	-26.41	≤8.00	PASS
11AX20MIMO	total	2437	-14.17	-24.17	≤8.00	PASS
11AX20MIMO	Ant1	2462	-18.56	-28.56	≤8.00	PASS
11AX20MIMO	Ant2	2462	-18.53	-28.53	≤8.00	PASS

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11AX20MIMO	total	2462	-15.53	-25.53	≤8.00	PASS
11AX40MIMO	Ant1	2422	-20.62	-30.62	≤8.00	PASS
11AX40MIMO	Ant2	2422	-19.48	-29.48	≤8.00	PASS
11AX40MIMO	total	2422	-17.00	-27.00	≤8.00	PASS
11AX40MIMO	Ant1	2437	-20.61	-30.61	≤8.00	PASS
11AX40MIMO	Ant2	2437	-19.18	-29.18	≤8.00	PASS
11AX40MIMO	total	2437	-16.83	-26.83	≤8.00	PASS
11AX40MIMO	Ant1	2452	-20.02	-30.02	≤8.00	PASS
11AX40MIMO	Ant2	2452	-20.27	-30.27	≤8.00	PASS
11AX40MIMO	total	2452	-17.13	-27.13	≤8.00	PASS

Note:

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

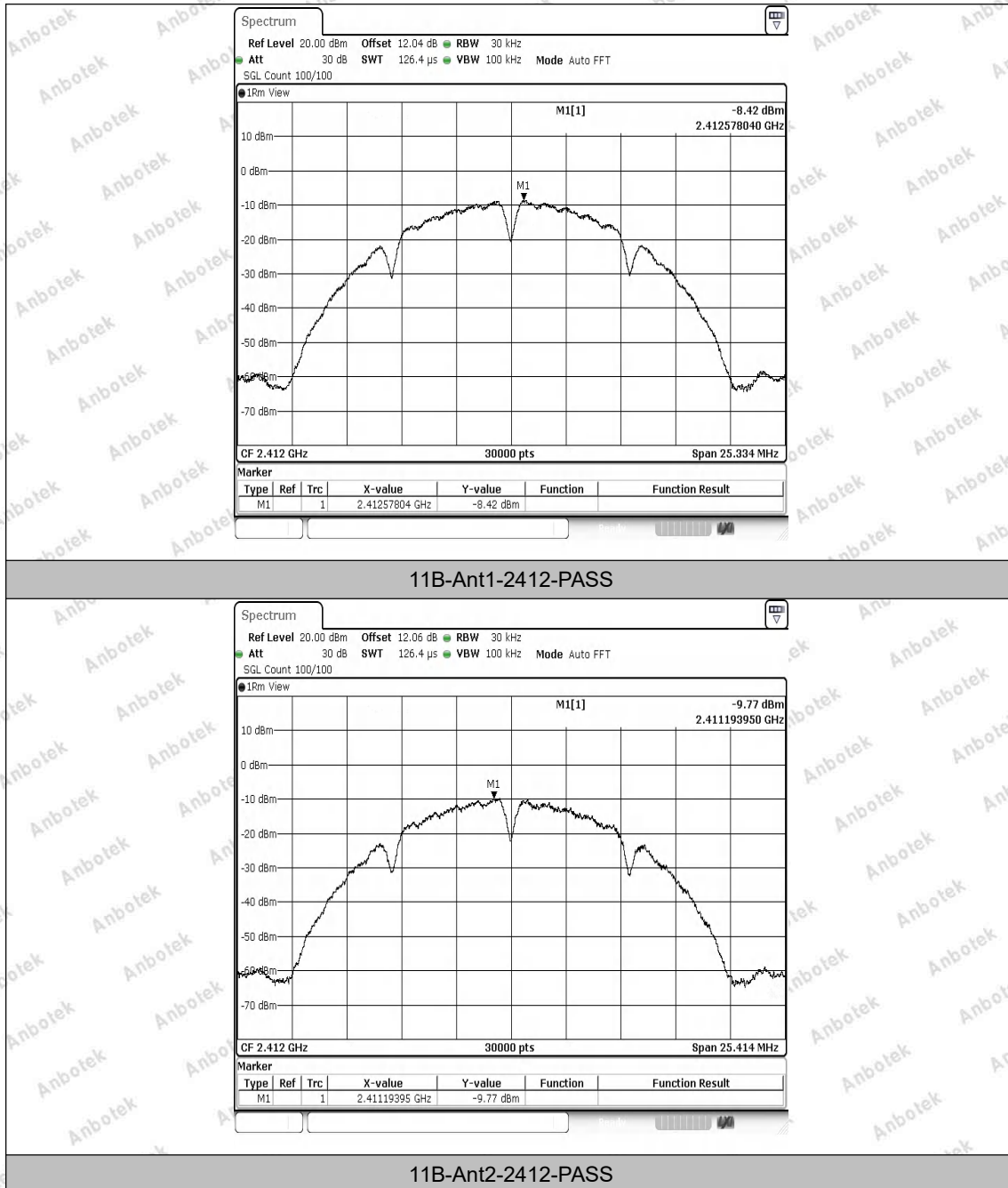
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$

3. As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi = $5.69 < 6$ dBi,
so limit=8dBm/3kHz.

4. NOTE: $MIMO = 10 \cdot \log((10^{ANT1/10} + 10^{ANT2/10}))$



Test Graphs



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