

Appendix Test Data

Report No:	182512C400222103	Test Sample NO:	1-2-2
Start Test Date:	2024.07.04	Finish Test Date:	2024.07.04
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3°C	Relative Humidity:	56%
Pressure:	101 kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.08	2408.44	2415.52	0.5	PASS
11B	Ant1	2437	8.08	2432.92	2441.00	0.5	PASS
11B	Ant1	2462	7.56	2457.96	2465.52	0.5	PASS
11G	Ant1	2412	15.68	2404.44	2420.12	0.5	PASS
11G	Ant1	2437	16.32	2428.80	2445.12	0.5	PASS
11G	Ant1	2462	15.64	2453.84	2469.48	0.5	PASS
11N20SISO	Ant1	2412	16.92	2403.84	2420.76	0.5	PASS
11N20SISO	Ant1	2437	15.04	2429.52	2444.56	0.5	PASS
11N20SISO	Ant1	2462	12.80	2455.48	2468.28	0.5	PASS

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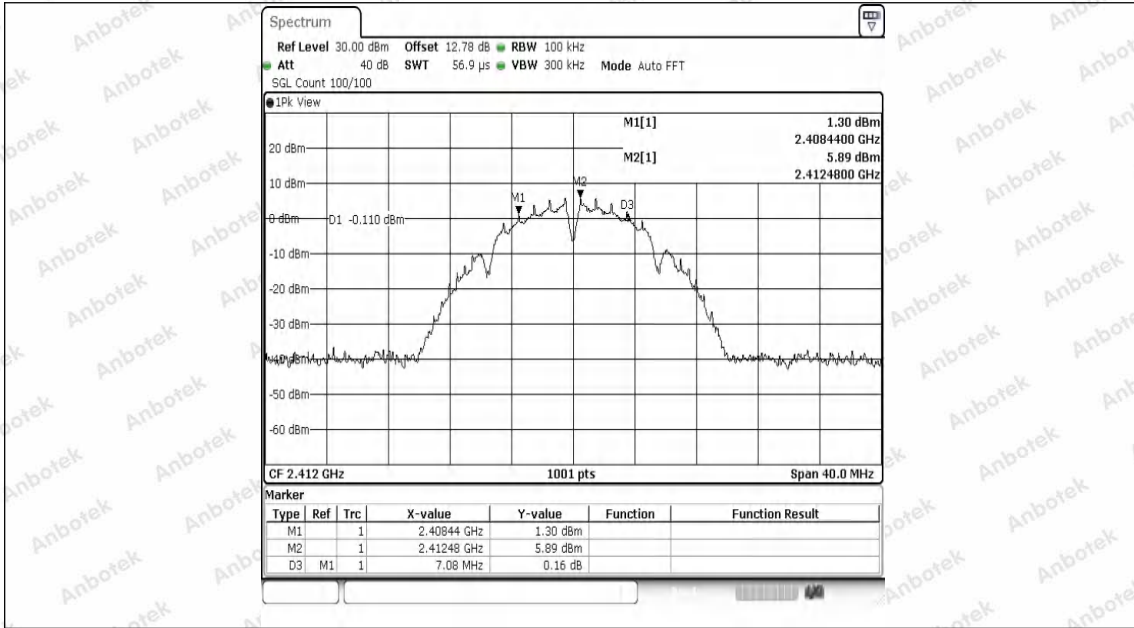
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



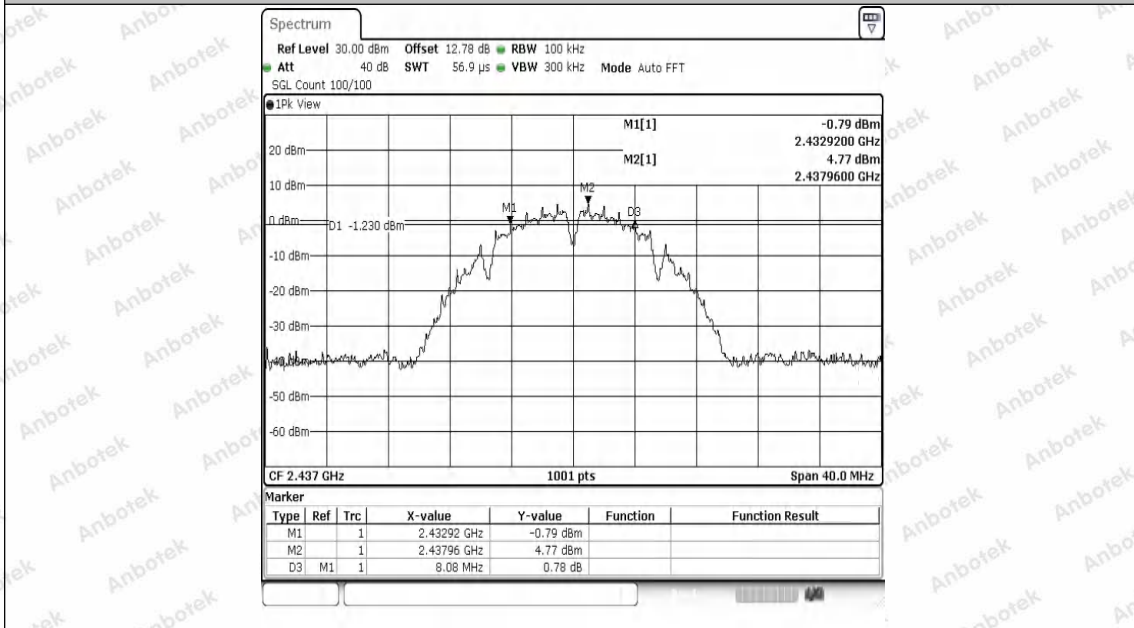
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Test Graphs

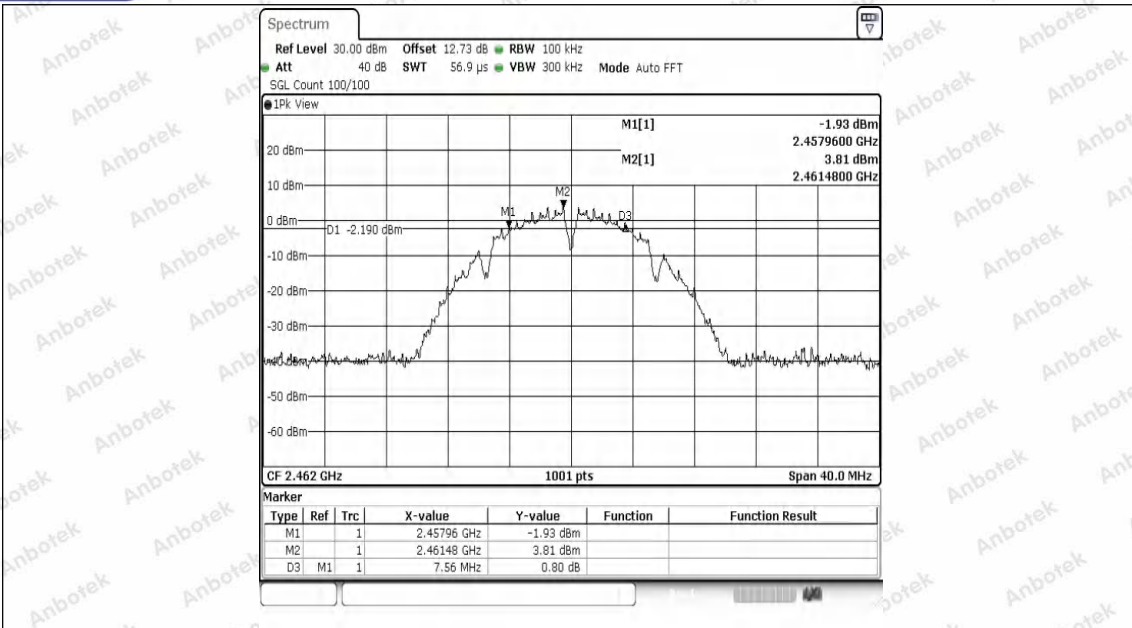


11B-Ant1-2412-PASS

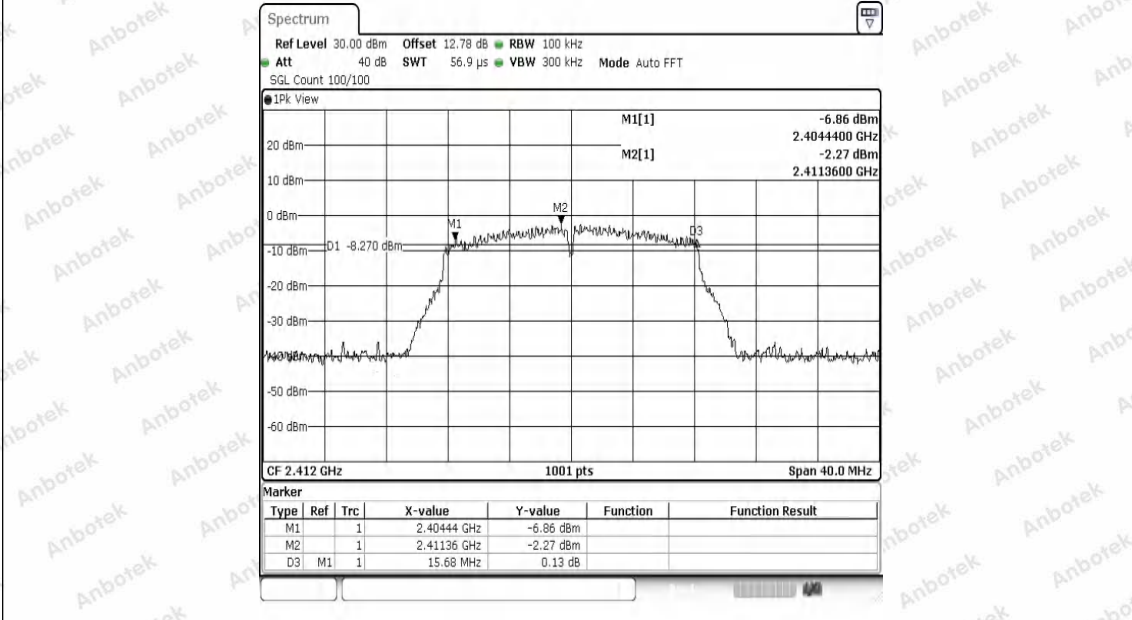


11B-Ant1-2437-PASS





11B-Ant1-2462-PASS



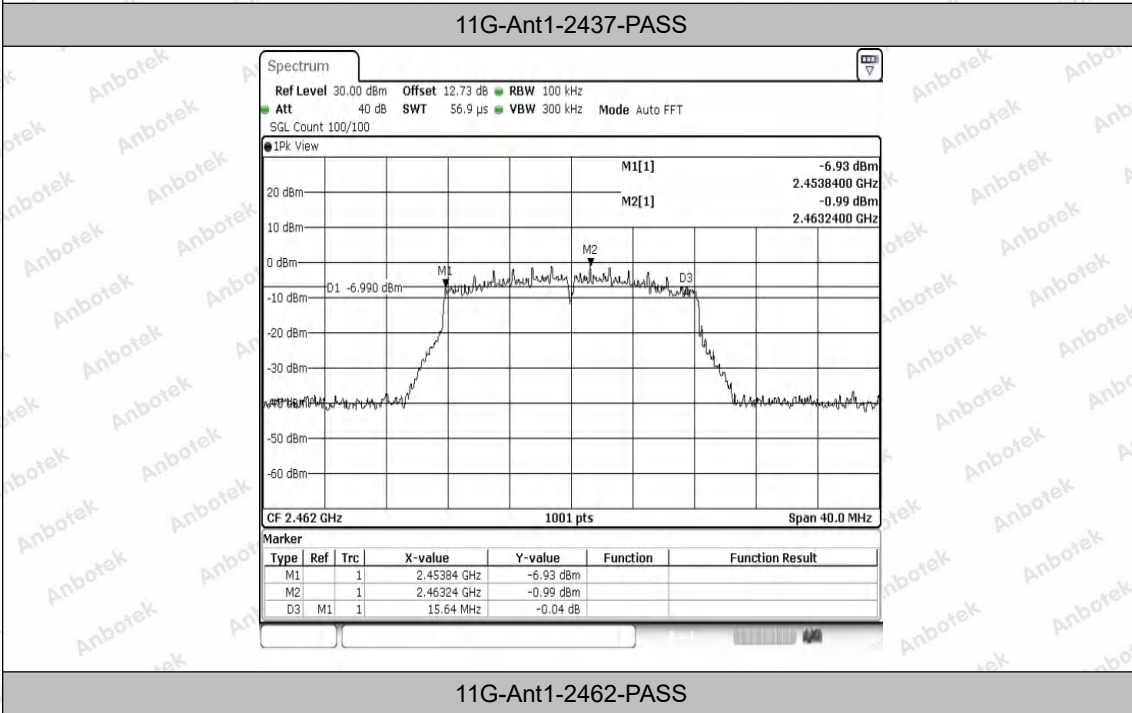
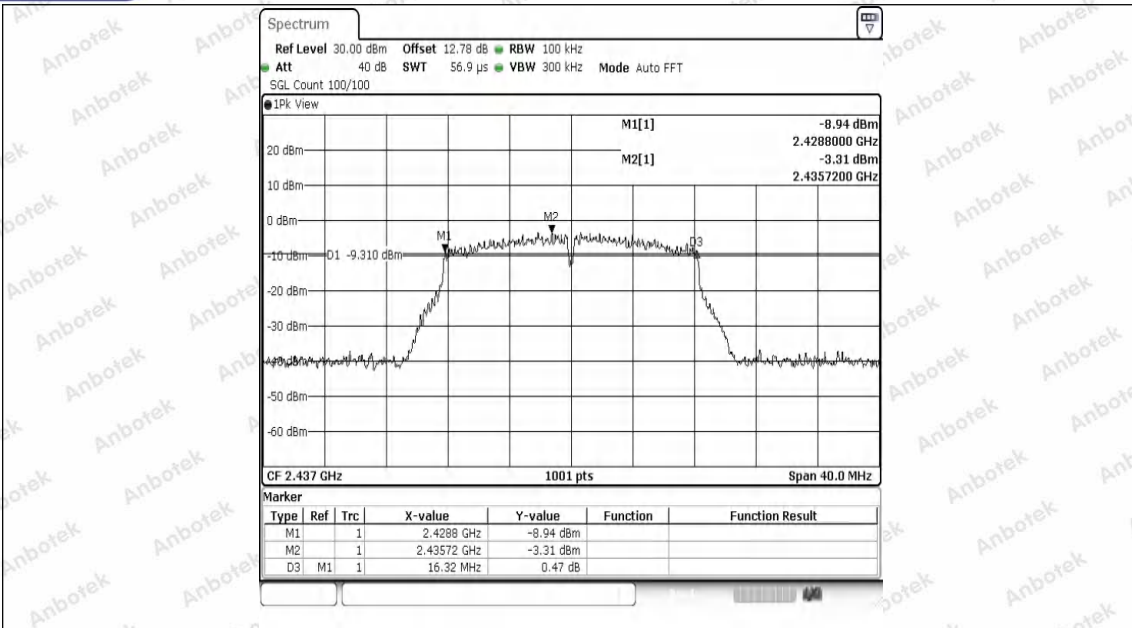
11G-Ant1-2412-PASS

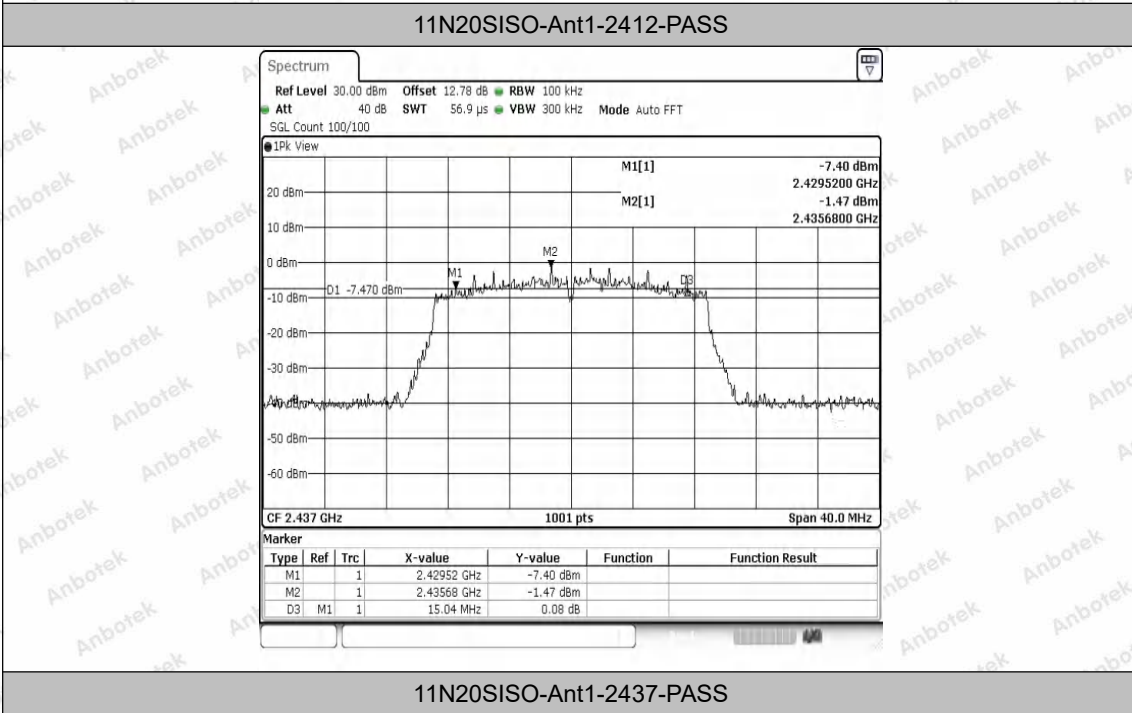
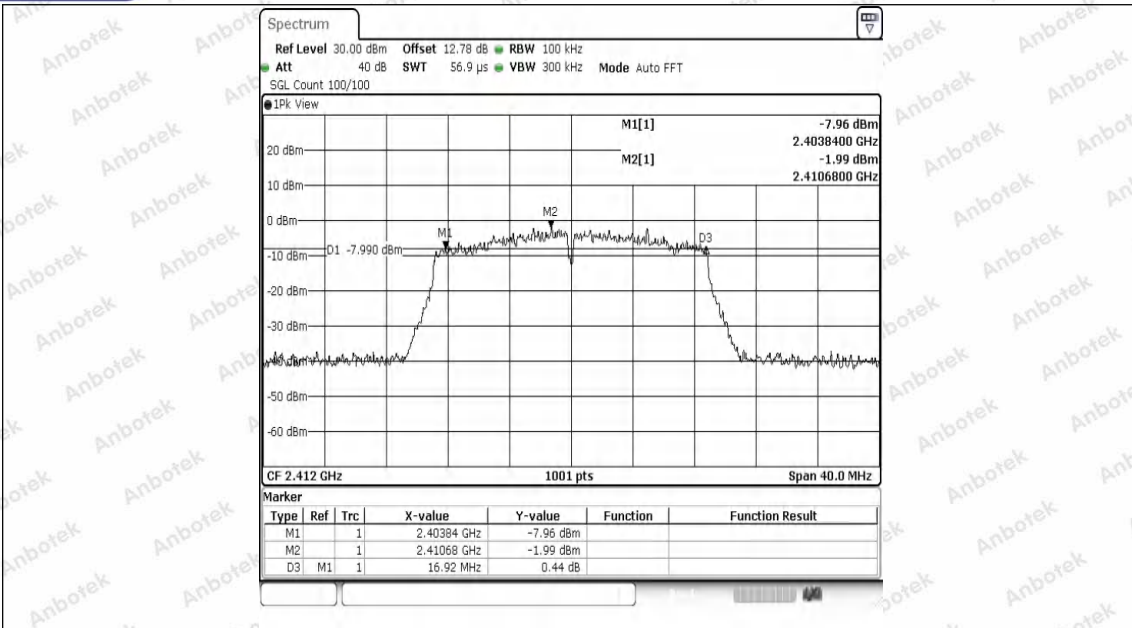
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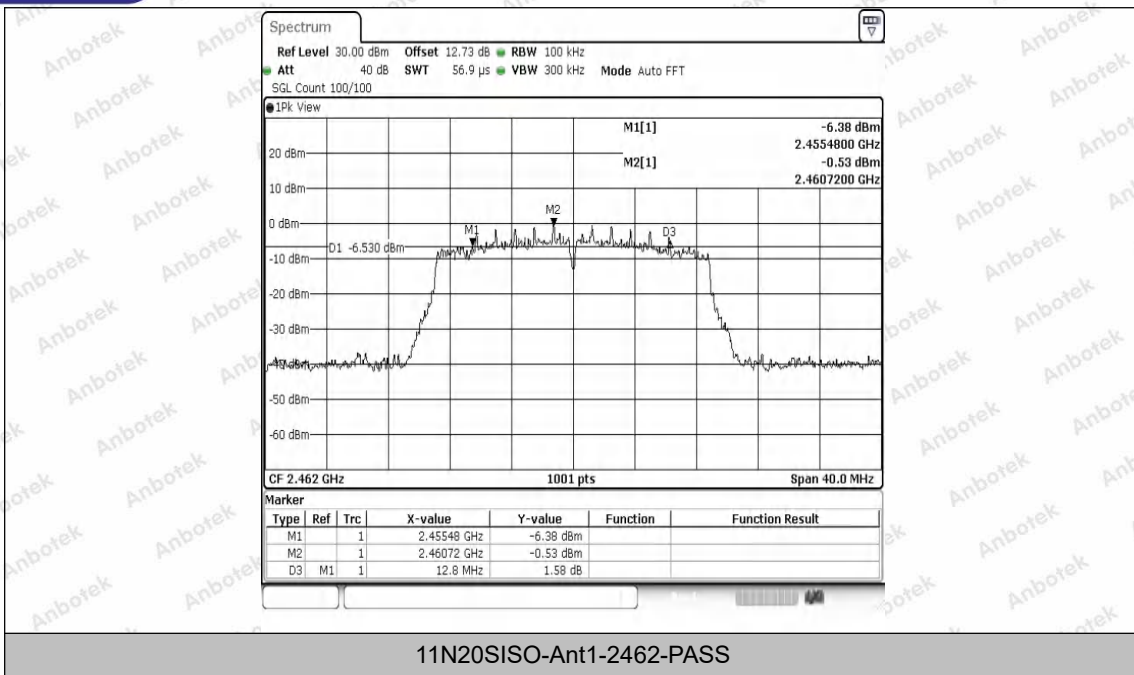
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.707	2405.7263	2418.4336	---	---
11B	Ant1	2437	12.987	2430.4865	2443.4735	---	---
11B	Ant1	2462	12.947	2455.4466	2468.3936	---	---
11G	Ant1	2412	16.663	2403.7682	2420.4316	---	---
11G	Ant1	2437	16.623	2428.6883	2445.3117	---	---
11G	Ant1	2462	16.703	2453.6484	2470.3516	---	---
11N20SISO	Ant1	2412	17.622	2403.2088	2420.8312	---	---
11N20SISO	Ant1	2437	18.062	2428.0889	2446.1508	---	---
11N20SISO	Ant1	2462	17.782	2453.0490	2470.8312	---	---

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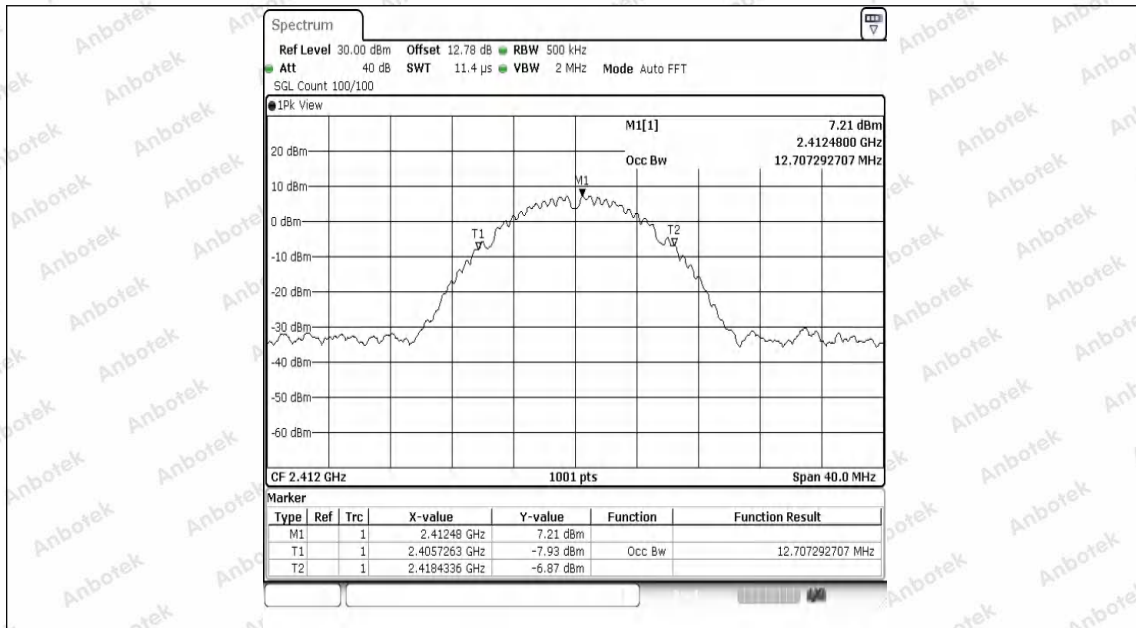
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



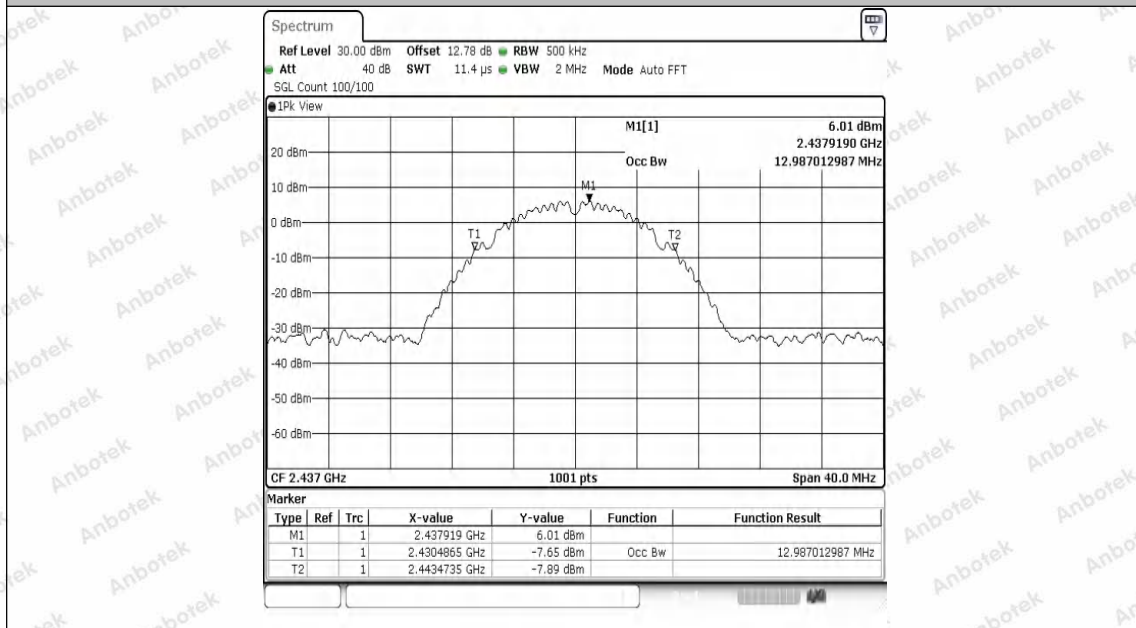
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Test Graphs

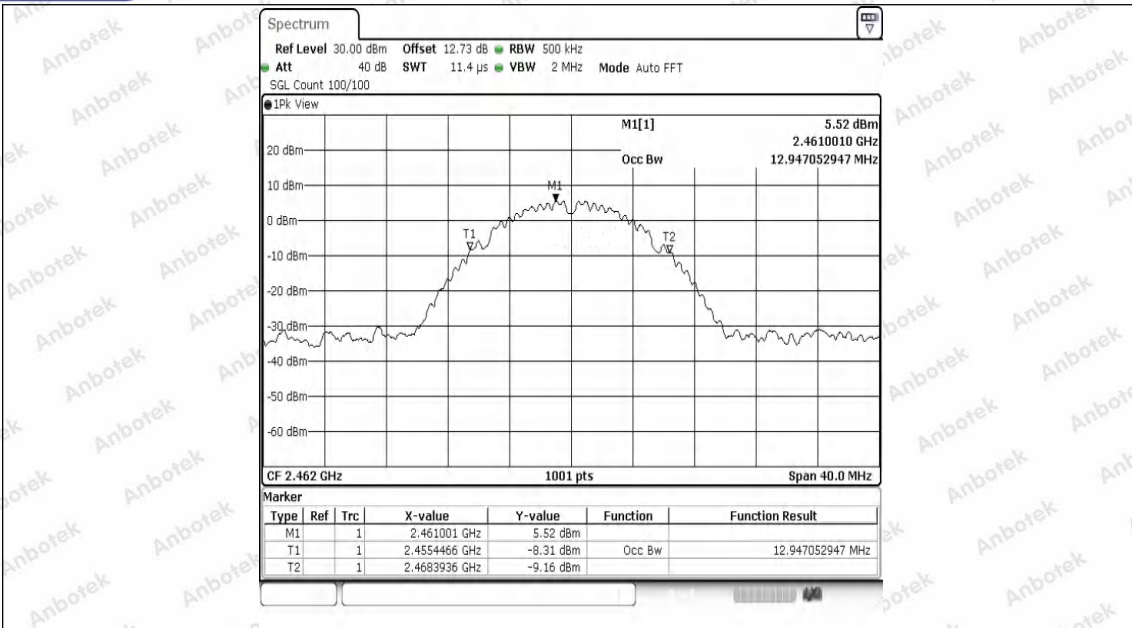


11B-Ant1-2412

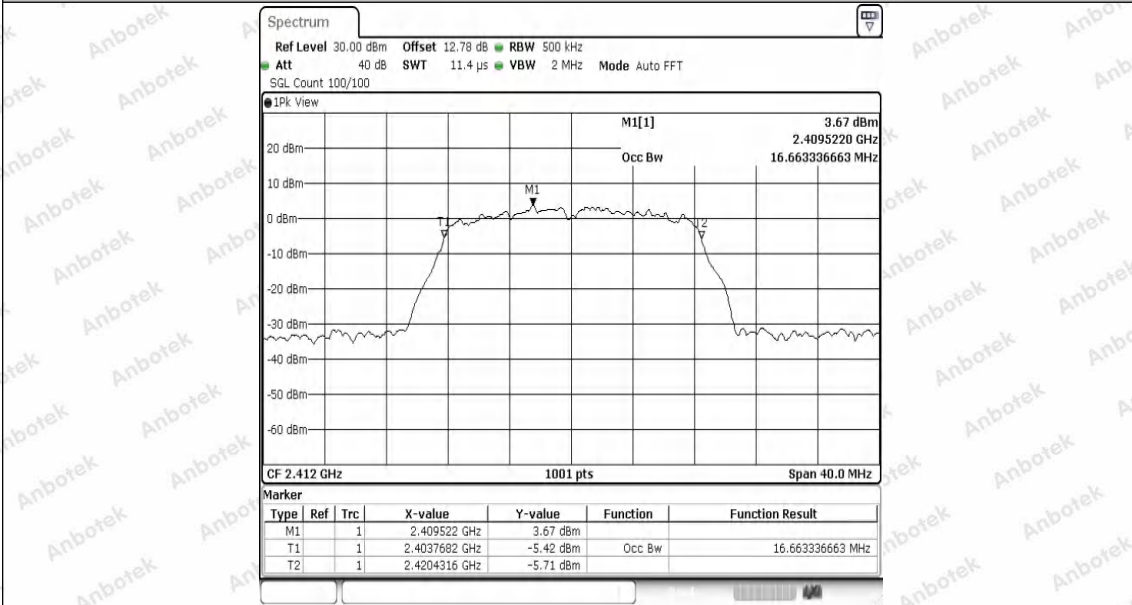


11B-Ant1-2437



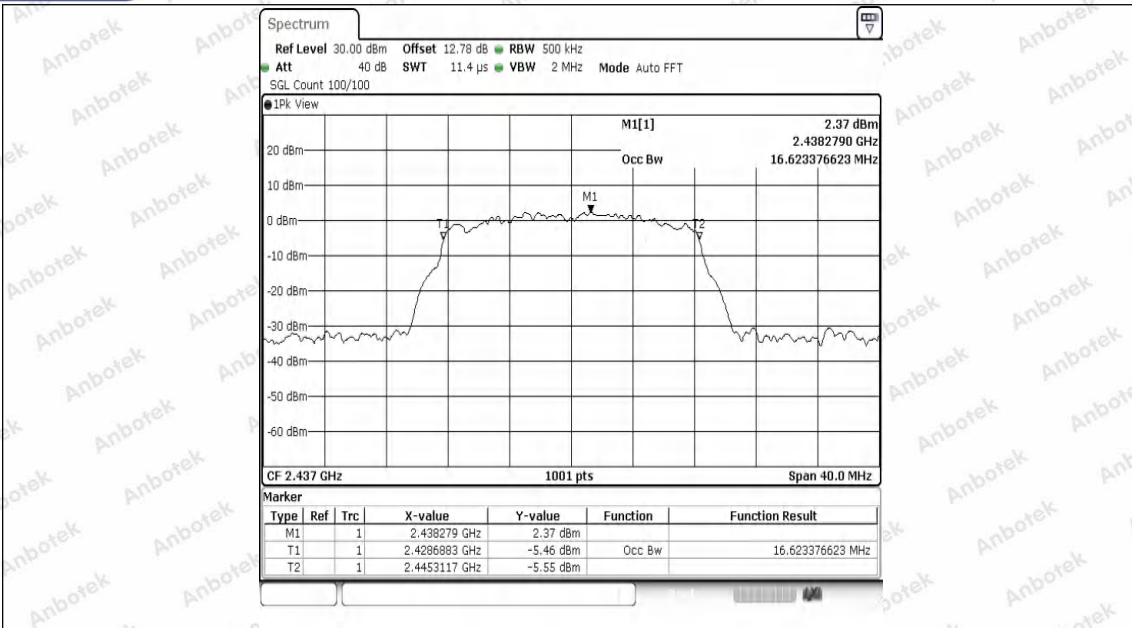


11B-Ant1-2462

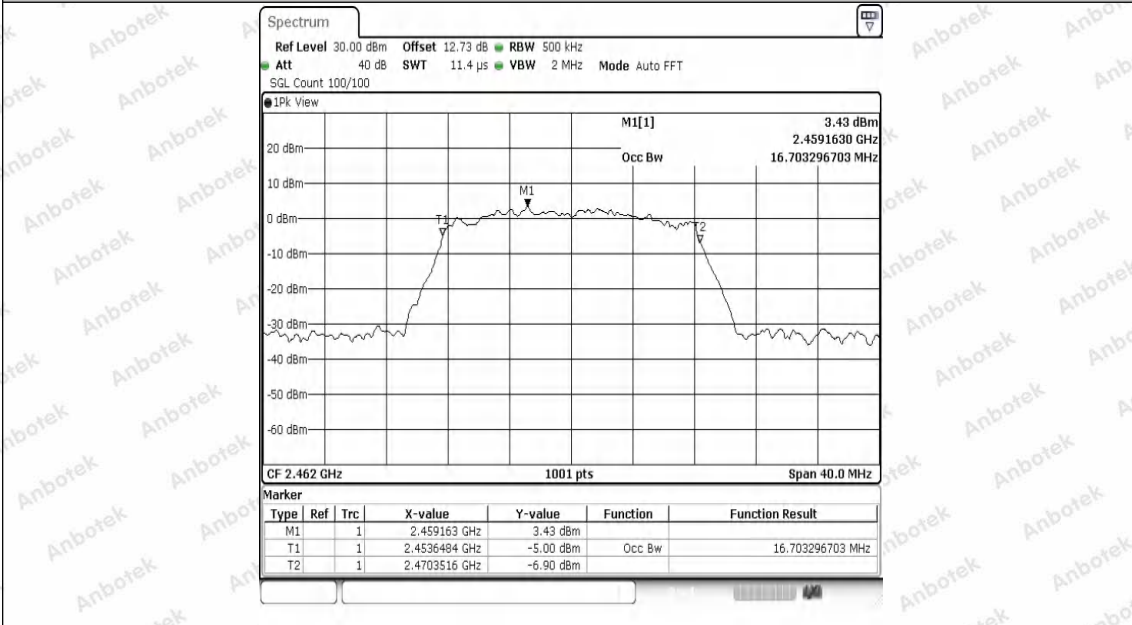


11G-Ant1-2412



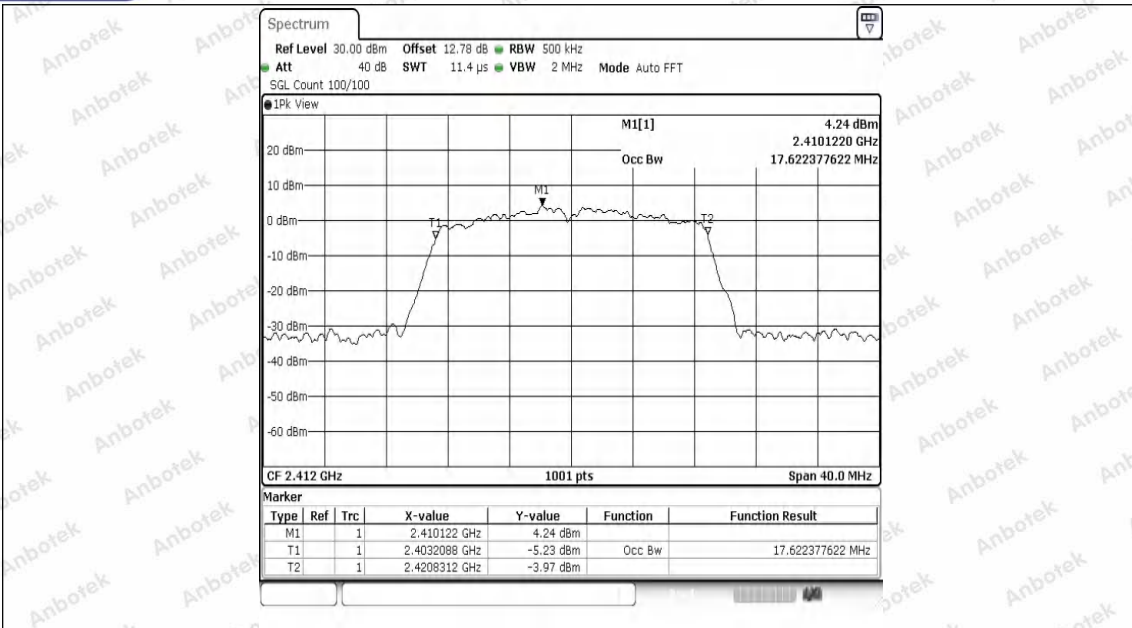


11G-Ant1-2437

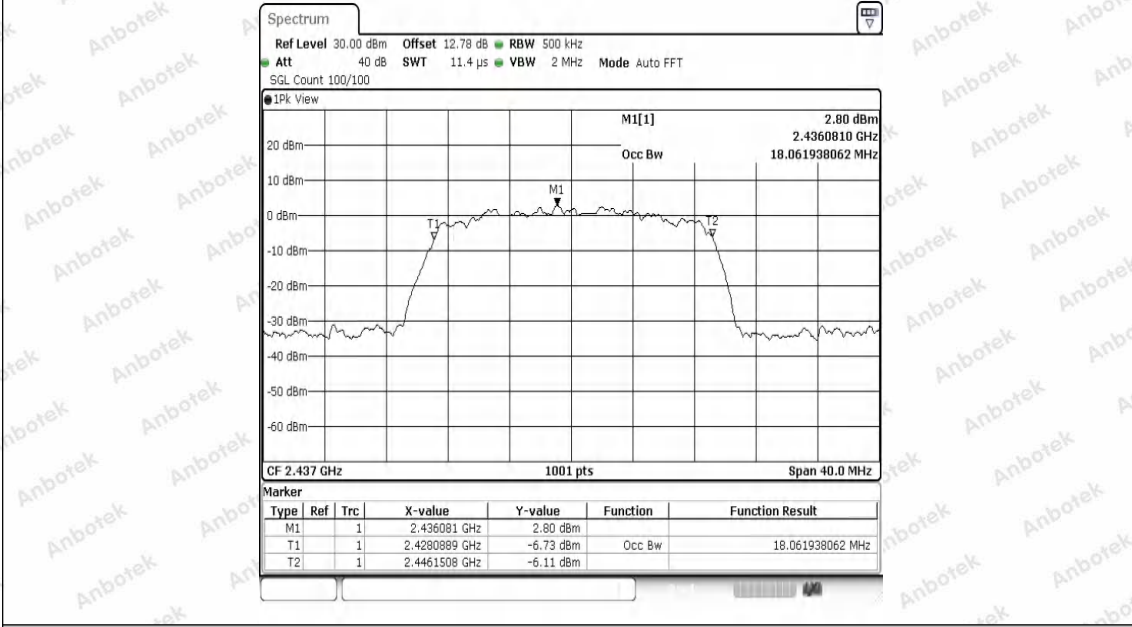


11G-Ant1-2462





11N20SISO-Ant1-2412



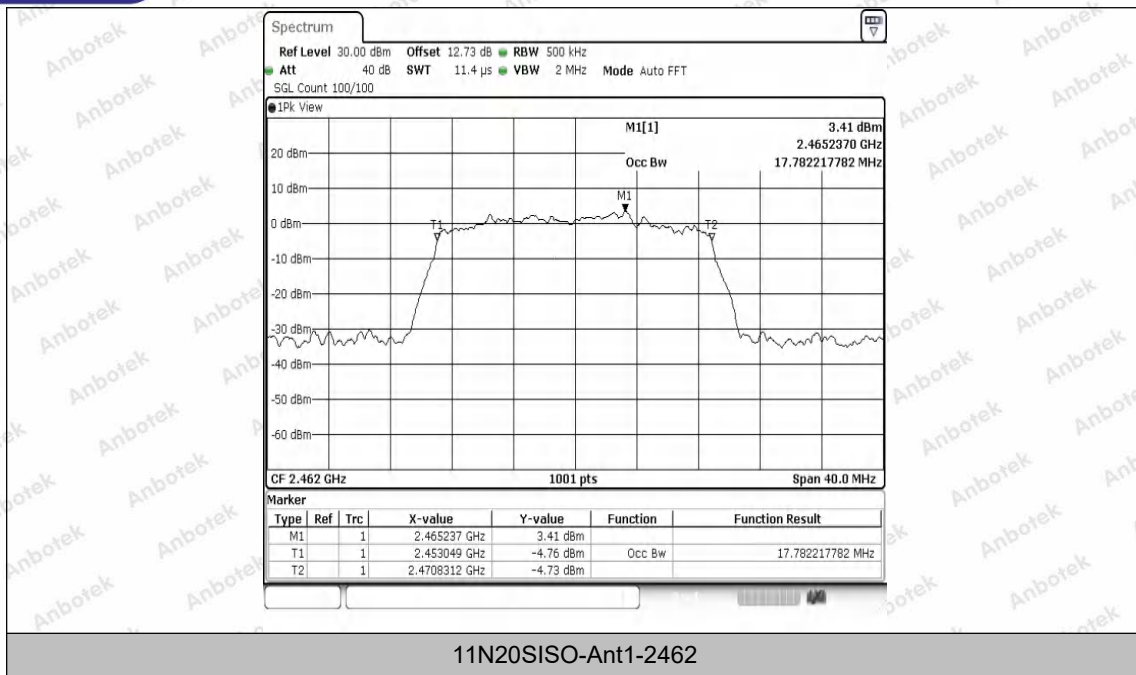
11N20SISO-Ant1-2437

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Appendix C: Maximum conducted output power

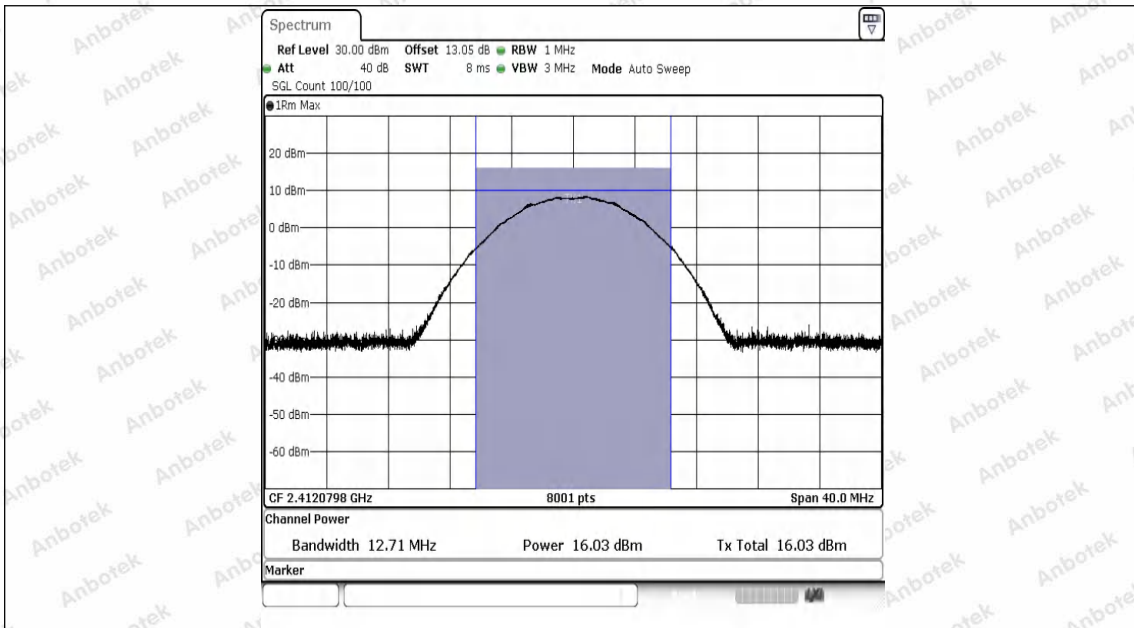
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	---	15.76	94.06	0.27	16.03	≤30.0 0	PASS
11B	Ant1	2437	---	14.72	93.85	0.28	15.00	≤30.0 0	PASS
11B	Ant1	2462	---	15.02	93.85	0.28	15.30	≤30.0 0	PASS
11G	Ant1	2412	---	15.15	72.77	1.38	16.53	≤30.0 0	PASS
11G	Ant1	2437	---	14.30	78.65	1.04	15.34	≤30.0 0	PASS
11G	Ant1	2462	---	14.87	72.40	1.40	16.27	≤30.0 0	PASS
11N20SI SO	Ant1	2412	---	15.20	80.25	0.96	16.16	≤30.0 0	PASS
11N20SI SO	Ant1	2437	---	14.25	80.86	0.92	15.17	≤30.0 0	PASS
11N20SI SO	Ant1	2462	---	14.65	68.95	1.61	16.26	≤30.0 0	PASS

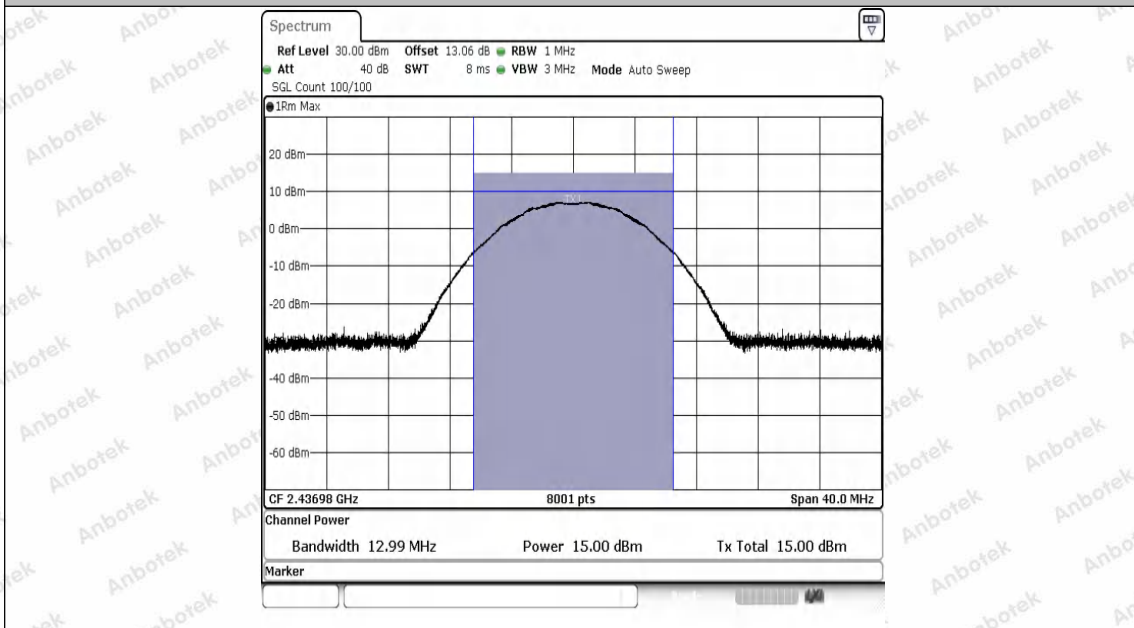
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



Test Graphs Average

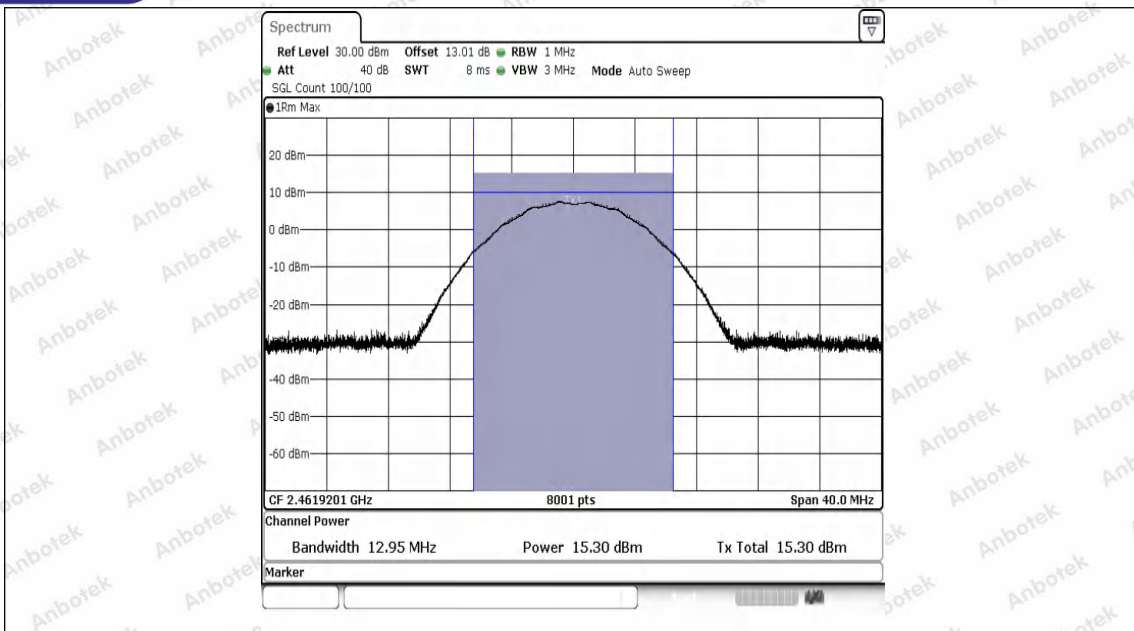


11B-Ant1-2412-PASS

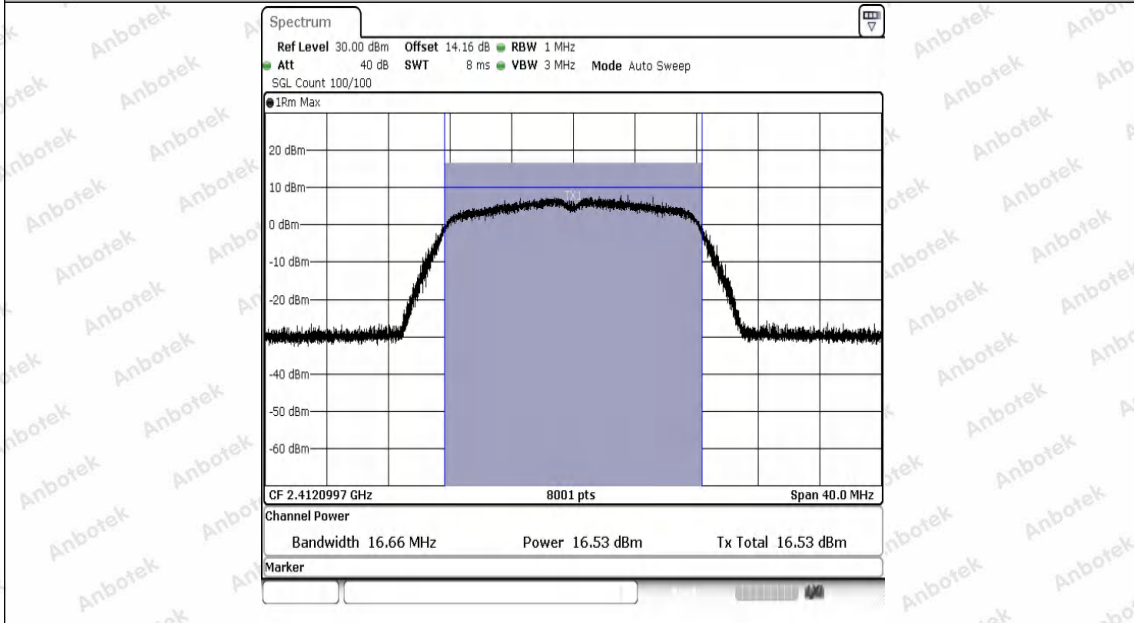


11B-Ant1-2437-PASS



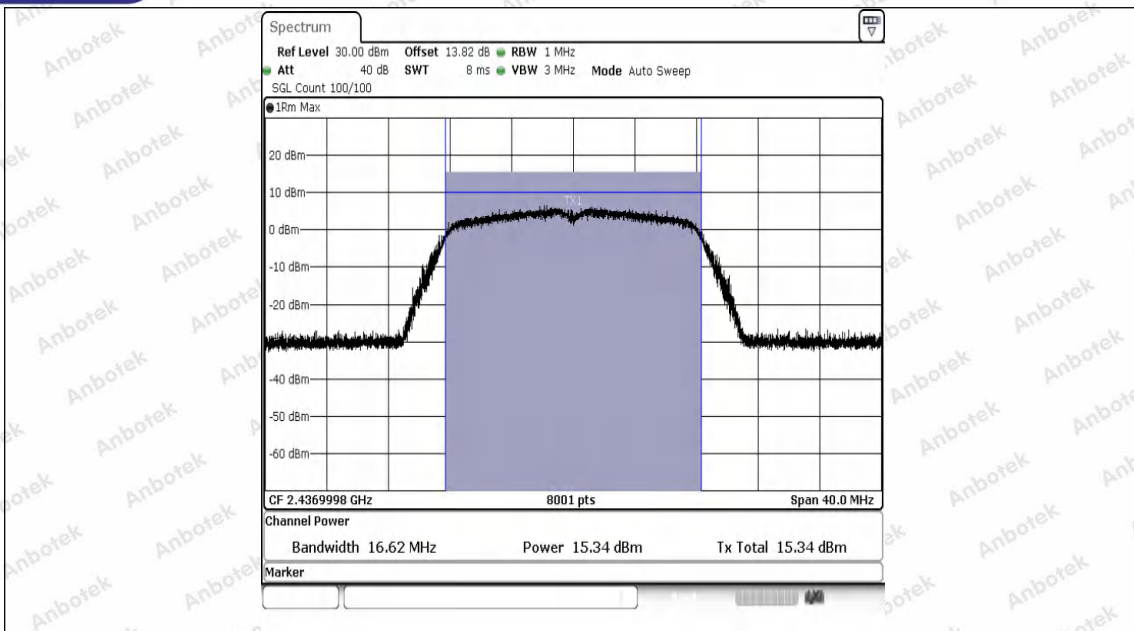


11B-Ant1-2462-PASS

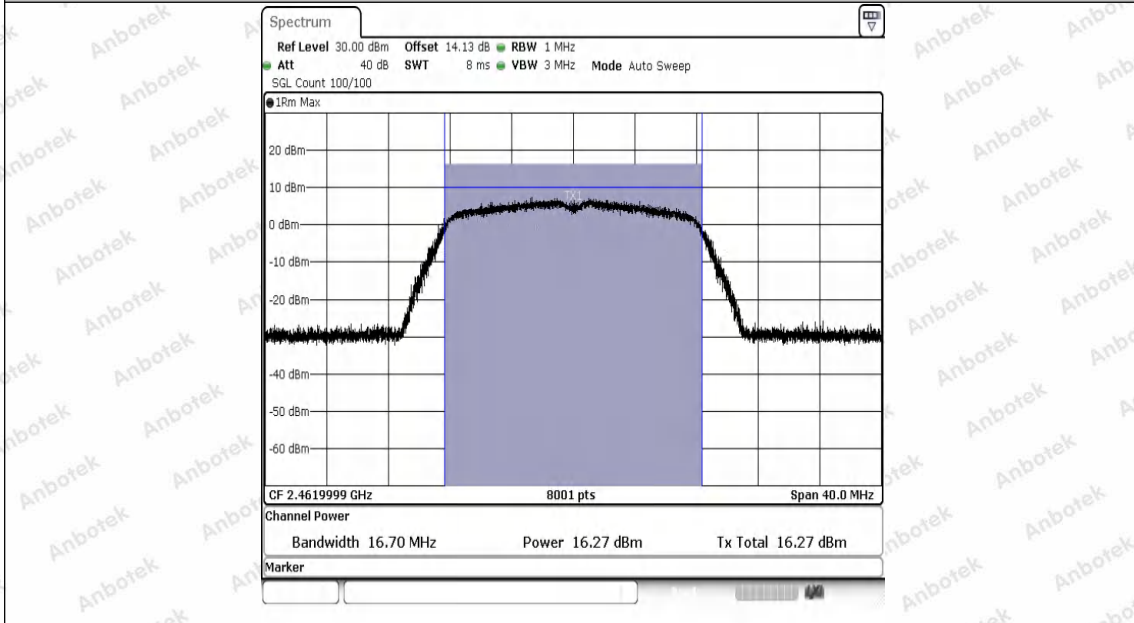


11G-Ant1-2412-PASS



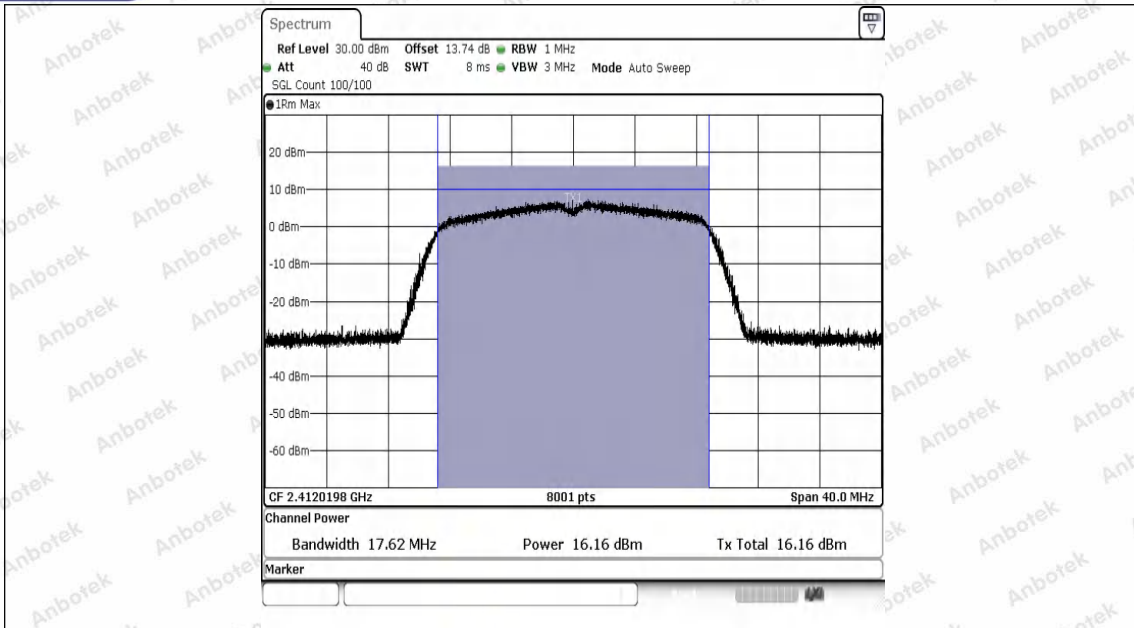


11G-Ant1-2437-PASS

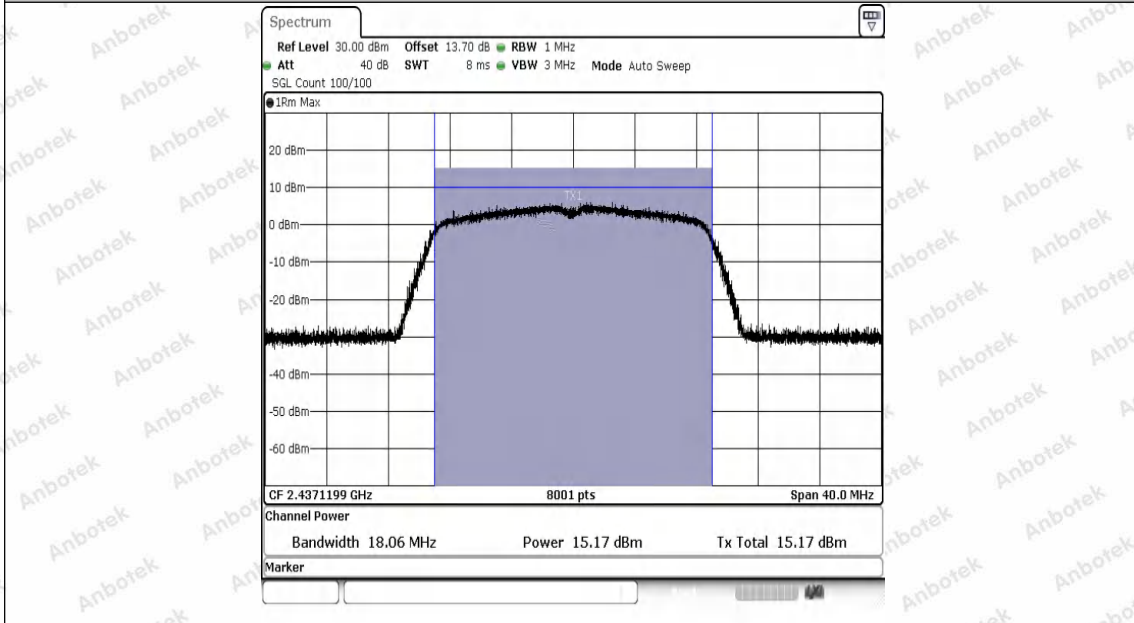


11G-Ant1-2462-PASS



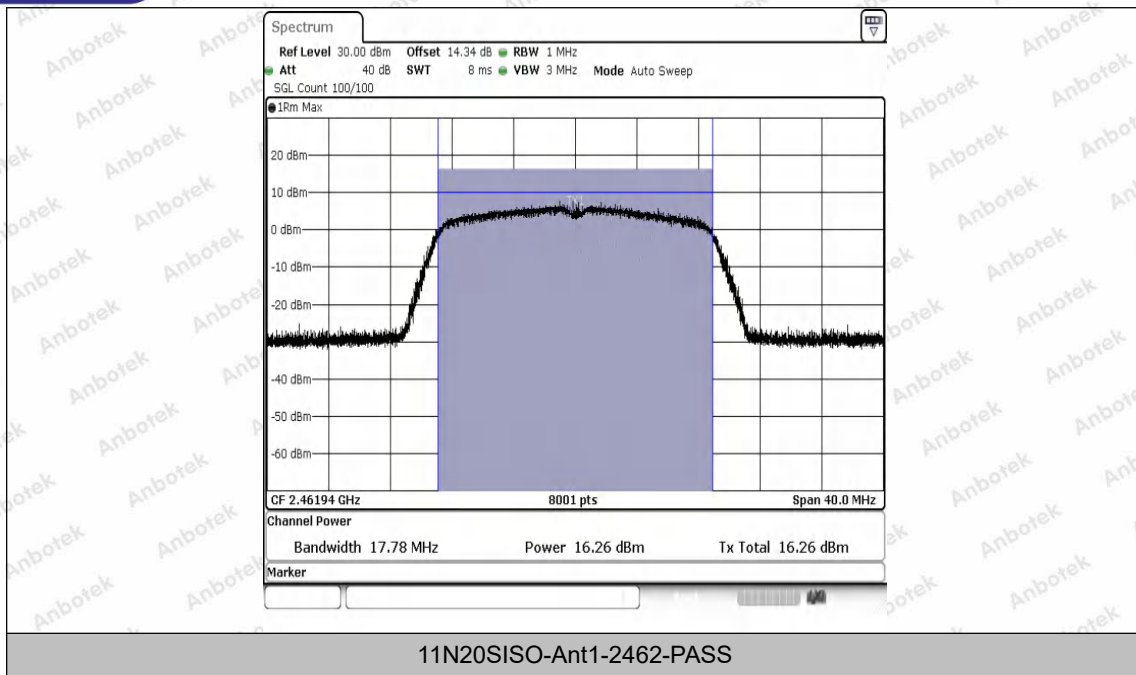


11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS





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Appendix D: Maximum power spectral density

Test Result

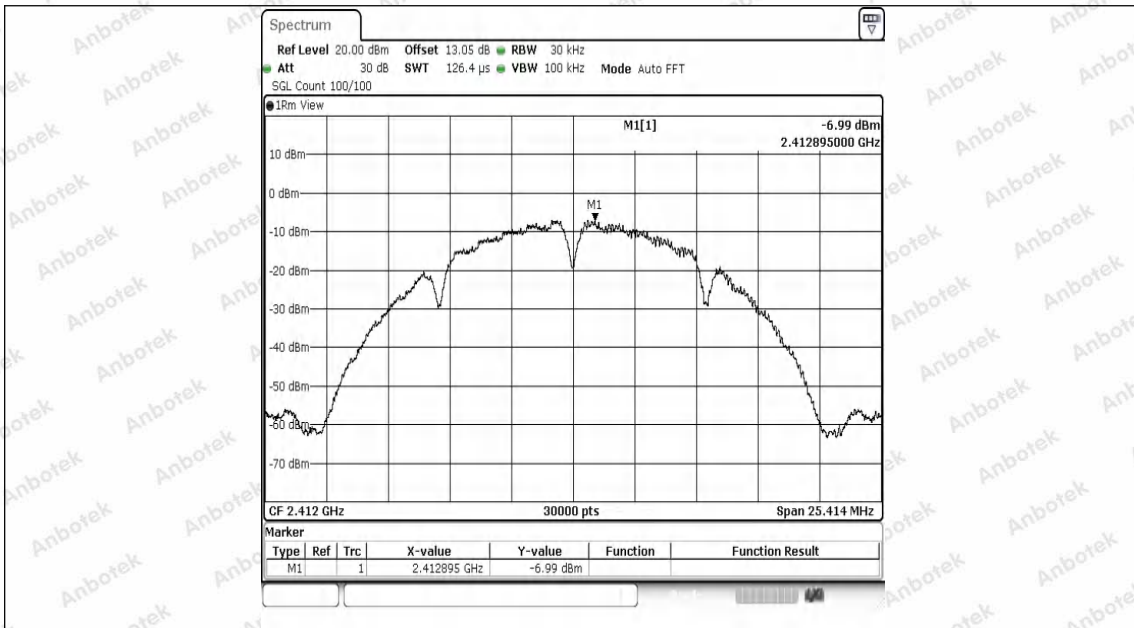
TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.99	-16.99	≤8.00	PASS
11B	Ant1	2437	-7.74	-17.74	≤8.00	PASS
11B	Ant1	2462	-8.08	-18.08	≤8.00	PASS
11G	Ant1	2412	-12.23	-22.23	≤8.00	PASS
11G	Ant1	2437	-13.66	-23.66	≤8.00	PASS
11G	Ant1	2462	-12.23	-22.23	≤8.00	PASS
11N20SISO	Ant1	2412	-11.88	-21.88	≤8.00	PASS
11N20SISO	Ant1	2437	-14.18	-24.18	≤8.00	PASS
11N20SISO	Ant1	2462	-12.49	-22.49	≤8.00	PASS

Note:

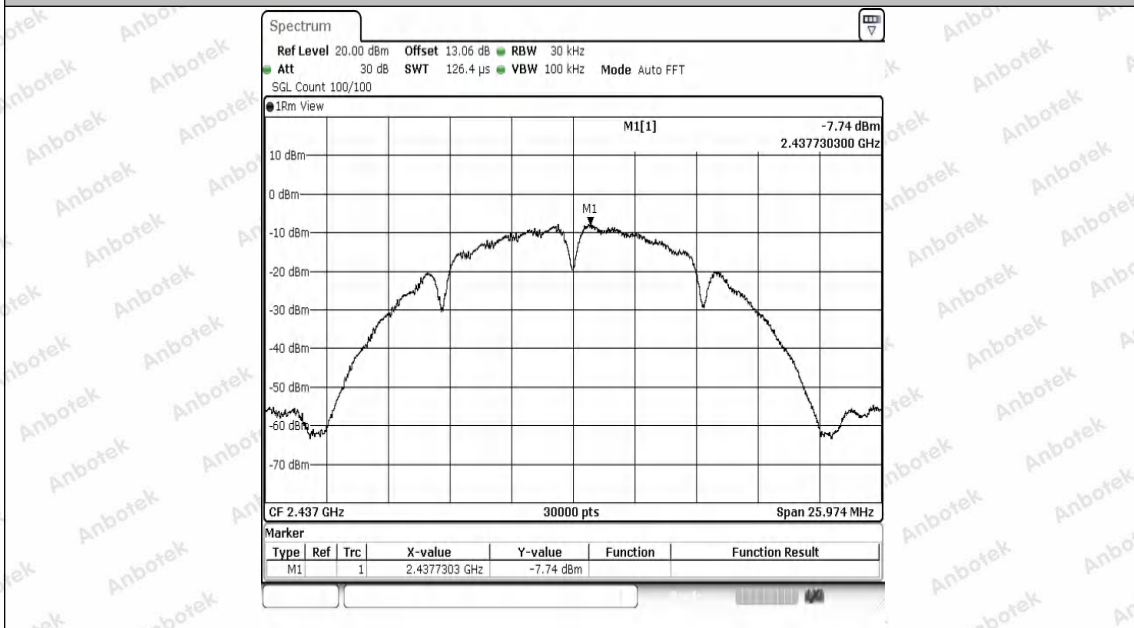
1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



Test Graphs



11B-Ant1-2412-PASS



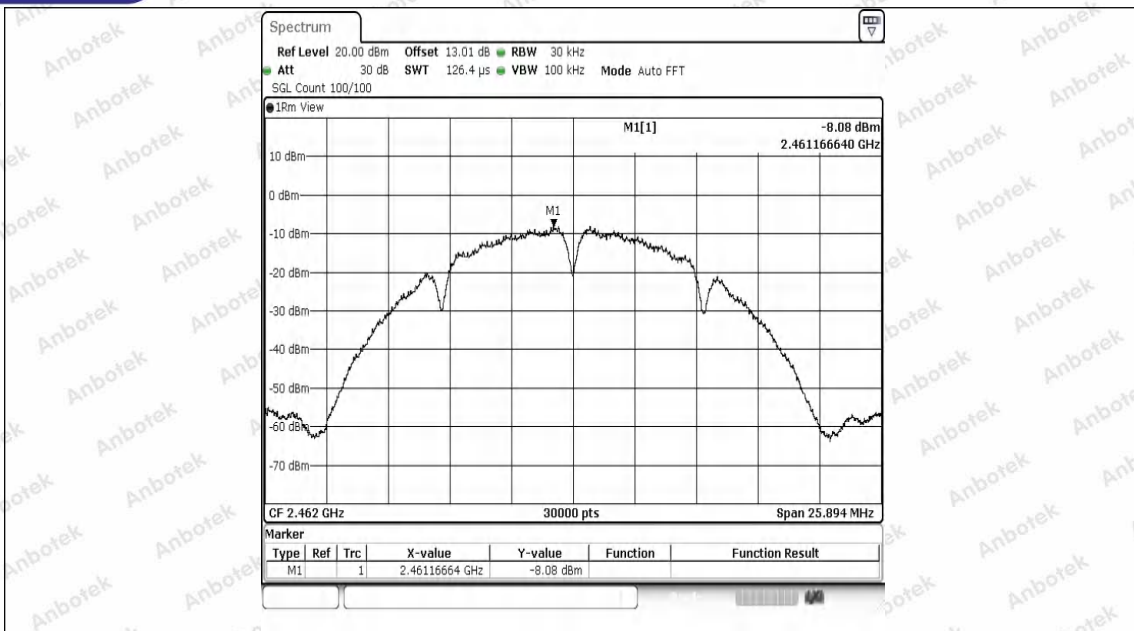
11B-Ant1-2437-PASS

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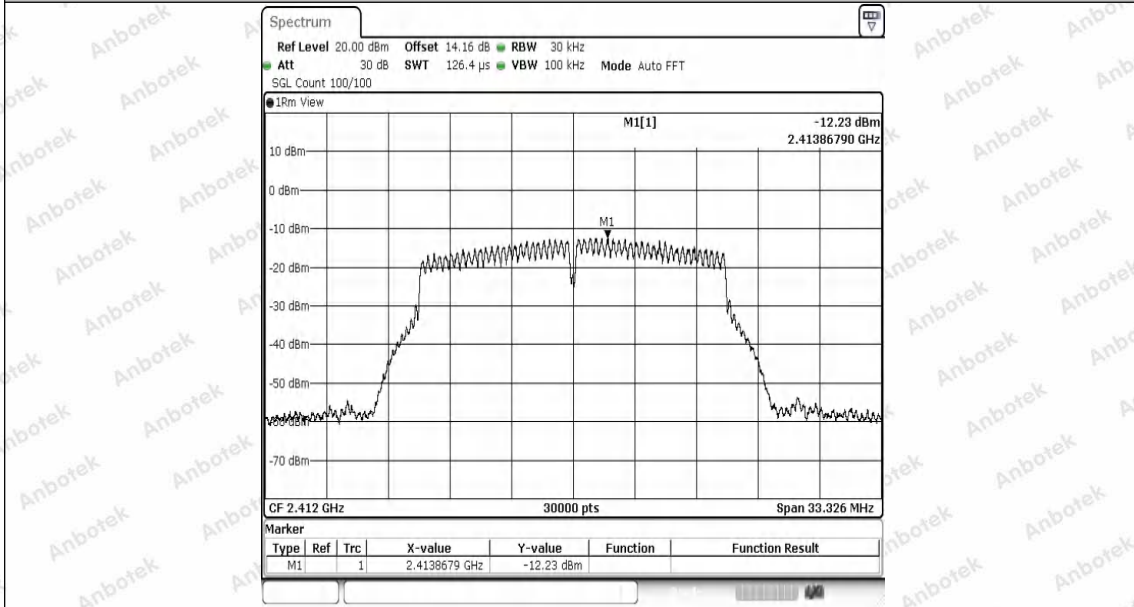
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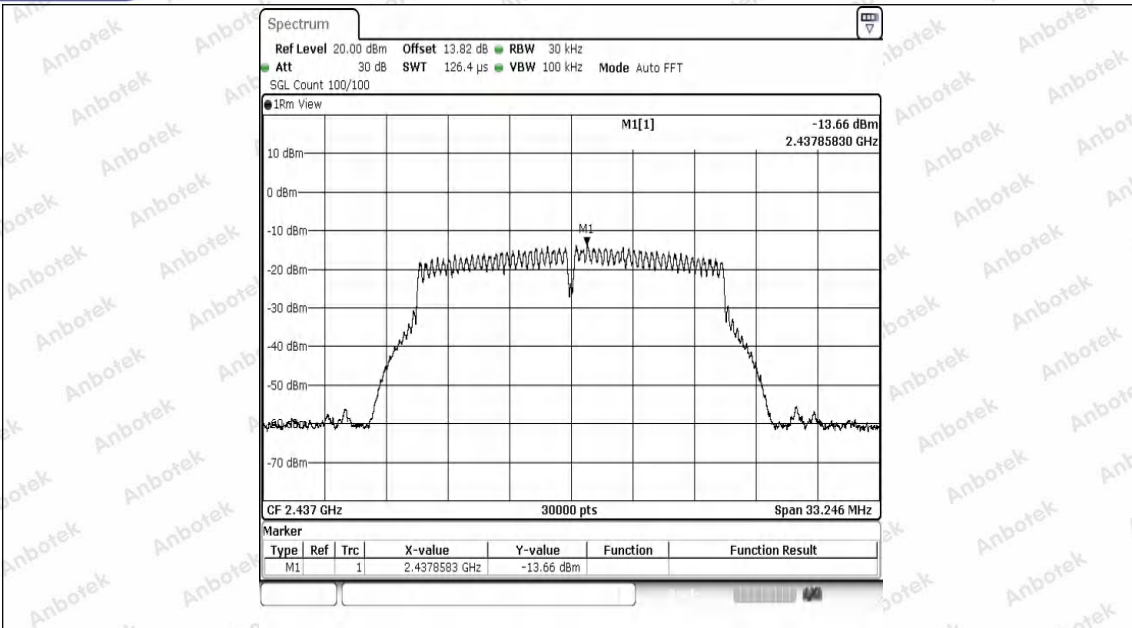


11B-Ant1-2462-PASS

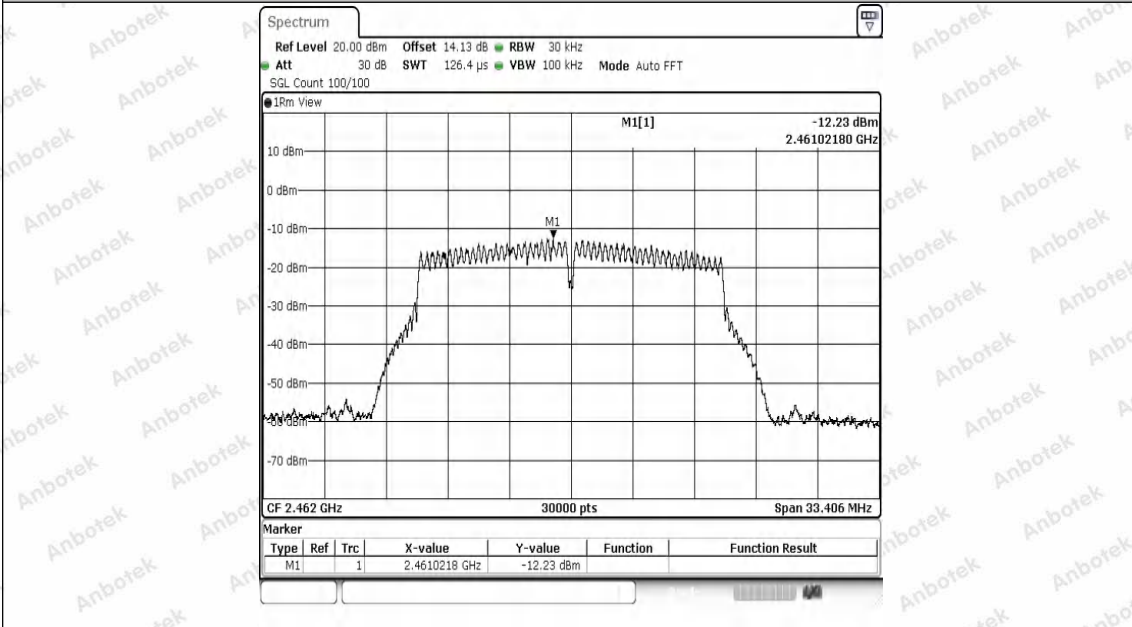


11G-Ant1-2412-PASS



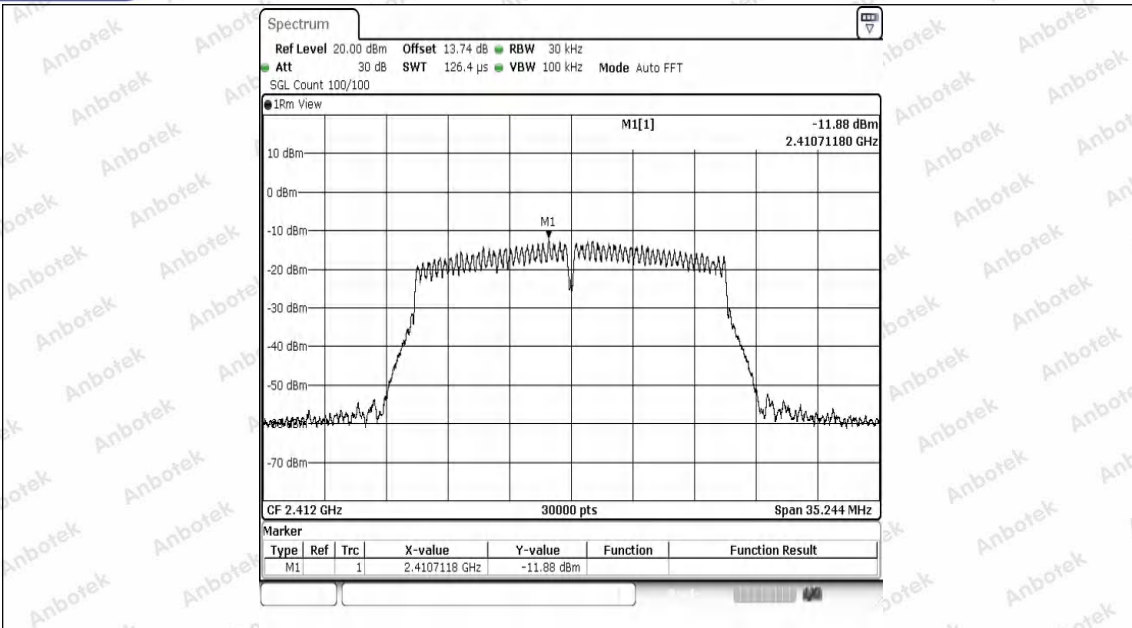


11G-Ant1-2437-PASS

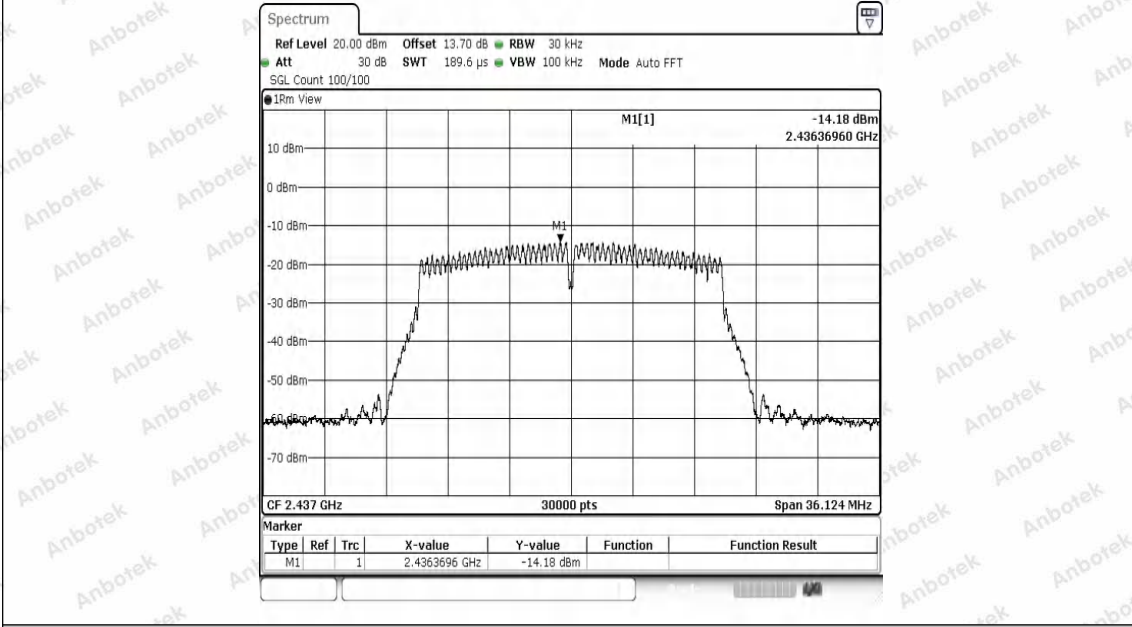


11G-Ant1-2462-PASS



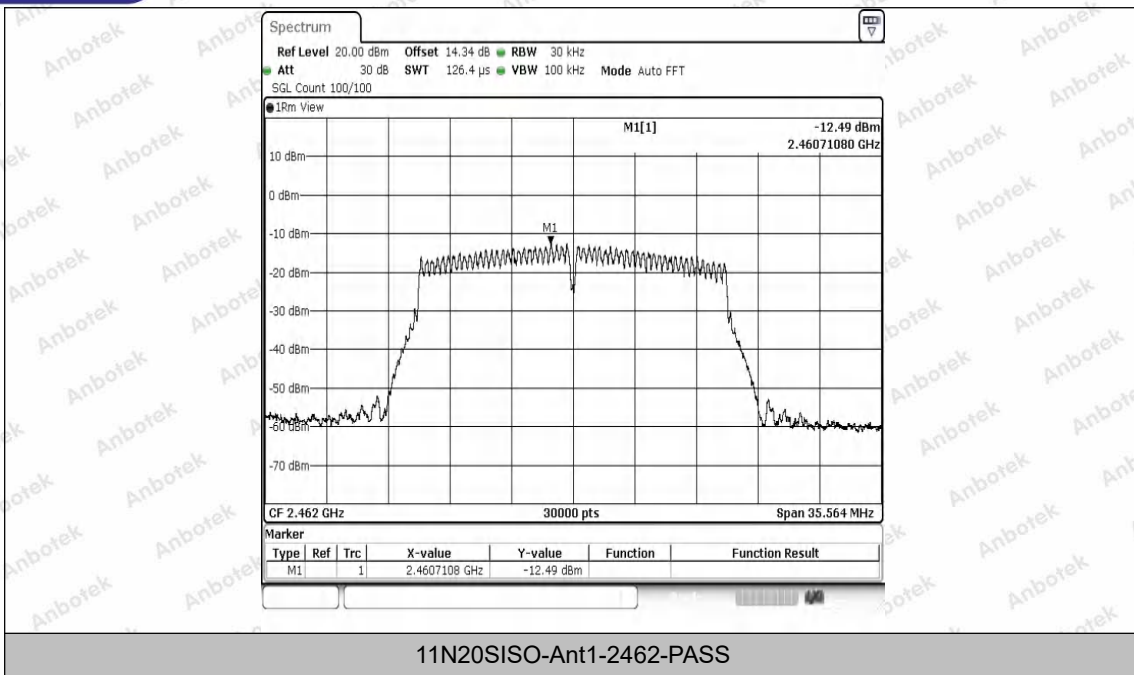


11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS





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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.94	-46.16	≤-27.06	PASS
11B	Ant1	High	2462	-0.45	-48.44	≤-30.45	PASS
11G	Ant1	Low	2412	-2.92	-47.67	≤-32.92	PASS
11G	Ant1	High	2462	-4.23	-47.92	≤-34.23	PASS
11N20SISO	Ant1	Low	2412	-3.96	-47.96	≤-33.96	PASS
11N20SISO	Ant1	High	2462	-4.72	-49.35	≤-34.72	PASS

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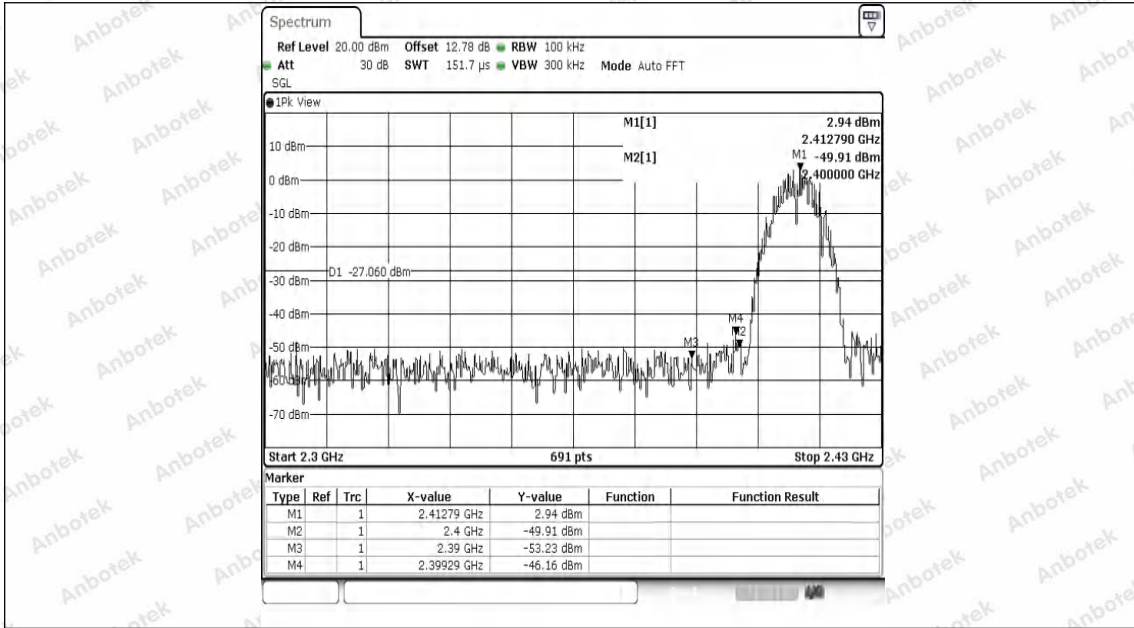
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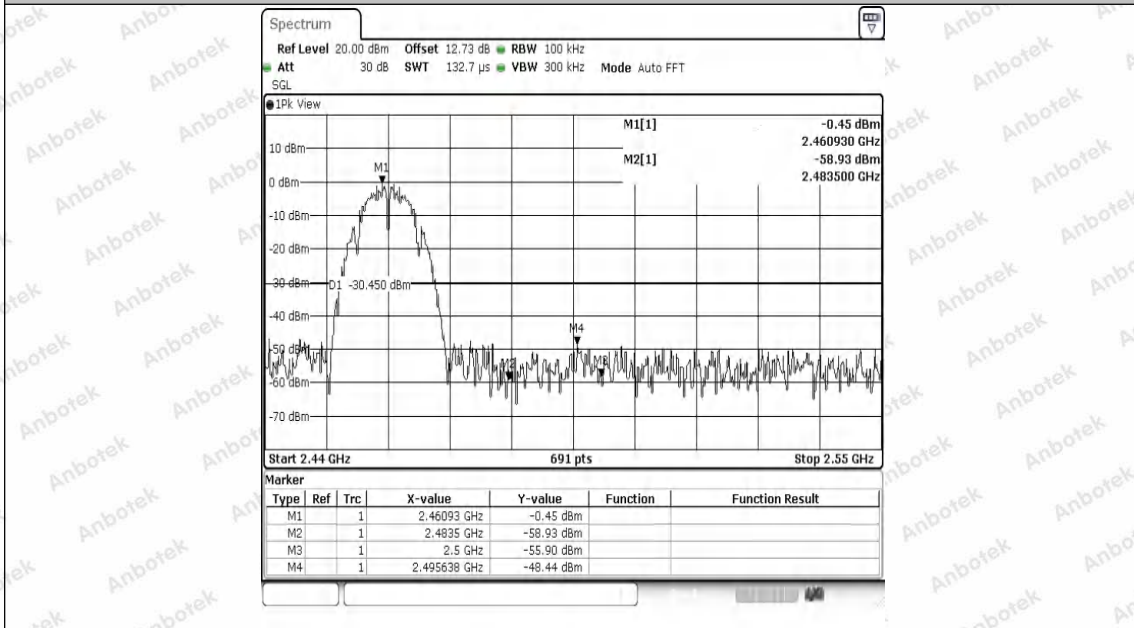
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Test Graphs

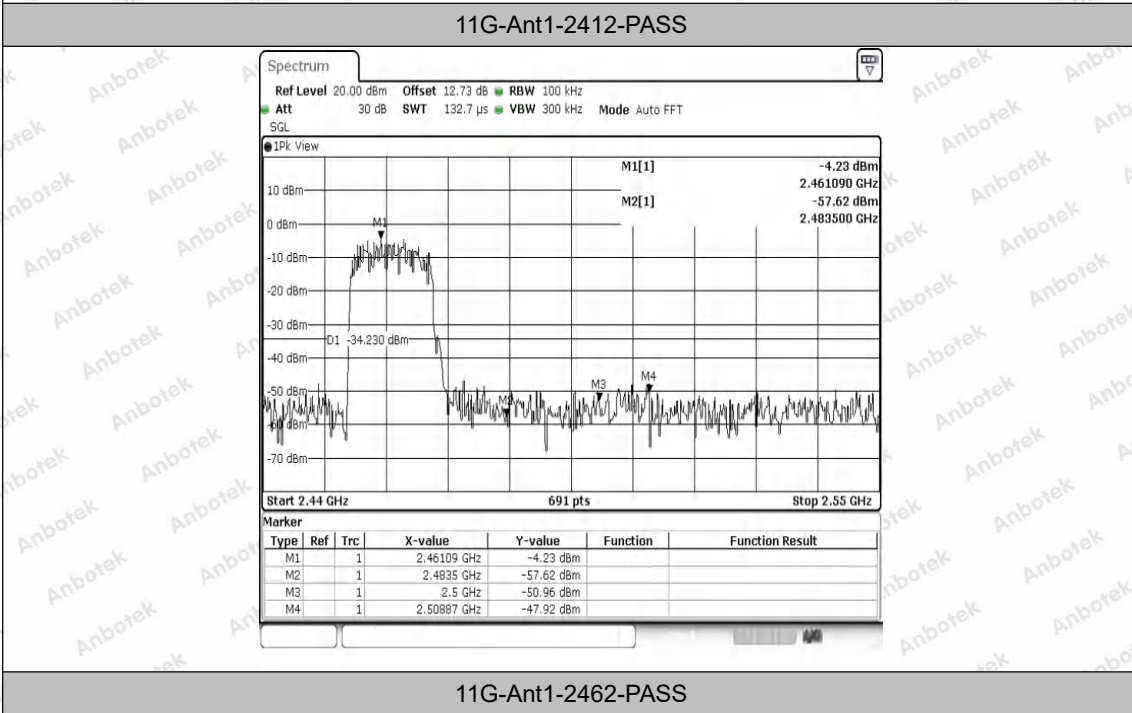
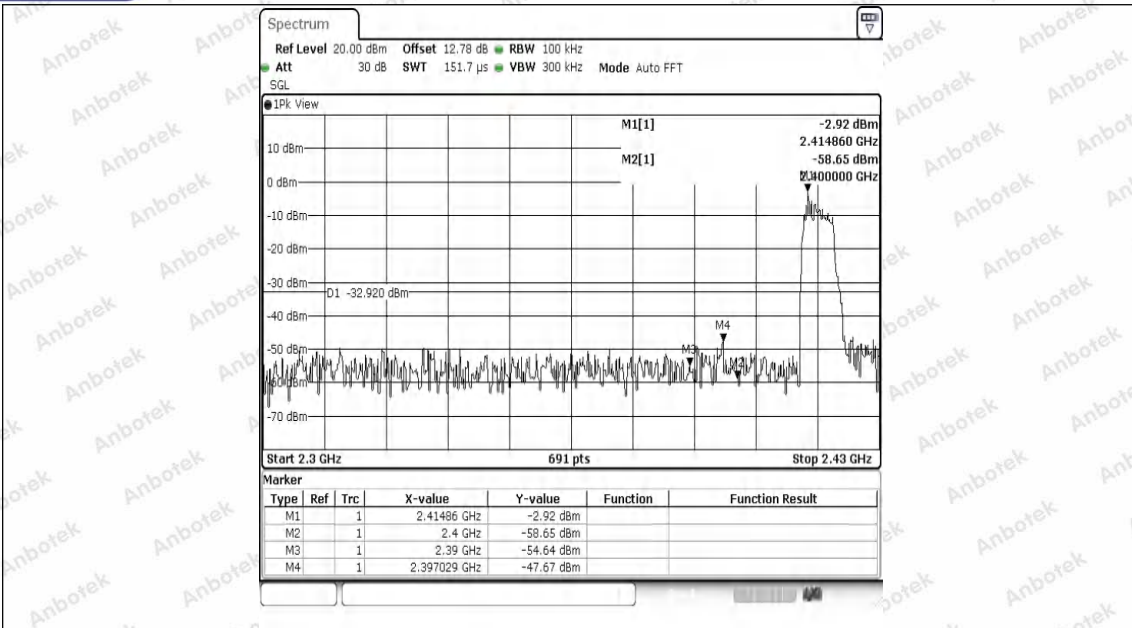


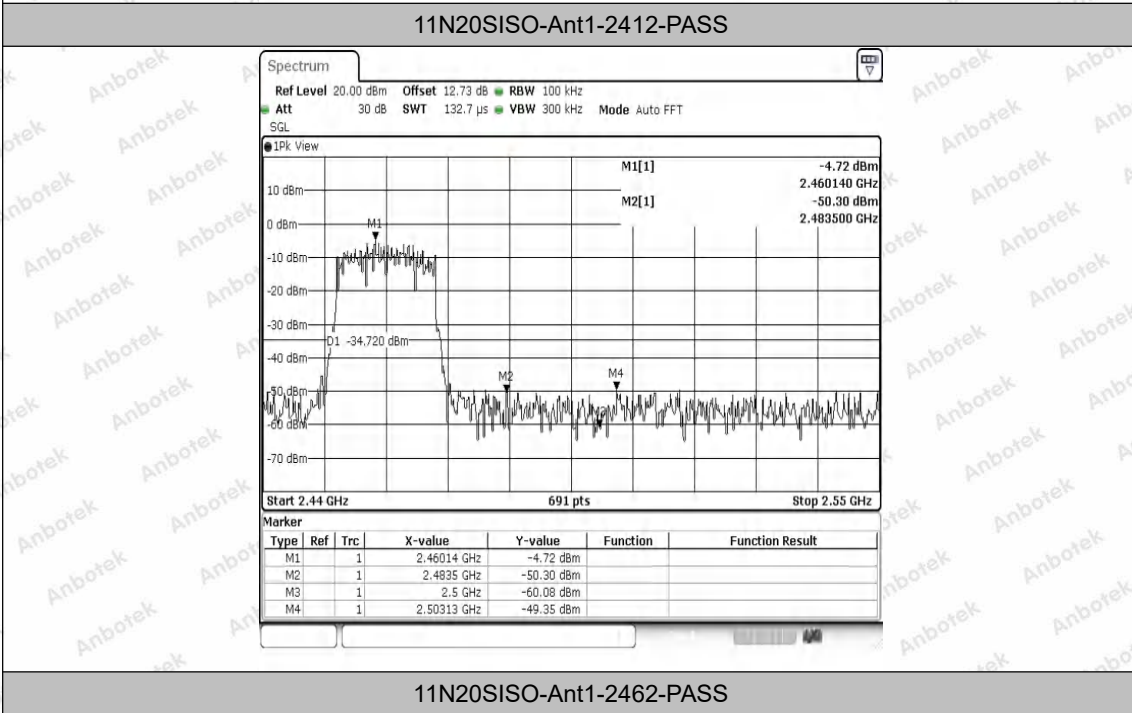
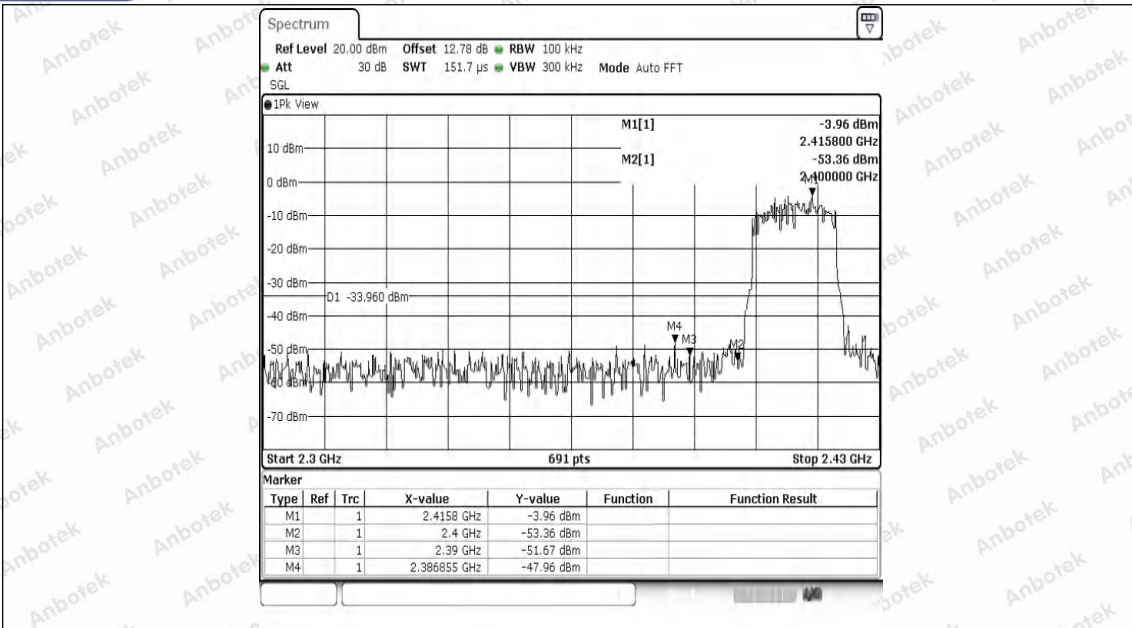
11B-Ant1-2412-PASS



11B-Ant1-2462-PASS







Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	5.03	5.03	---	PASS
11B	Ant1	2412	30~1000	5.03	-58.38	≤-24.97	PASS
11B	Ant1	2412	1000~26500	5.03	-41.65	≤-24.97	PASS
11B	Ant1	2437	0~Reference	5.50	5.50	---	PASS
11B	Ant1	2437	30~1000	5.50	-57.01	≤-24.5	PASS
11B	Ant1	2437	1000~26500	5.50	-42.22	≤-24.5	PASS
11B	Ant1	2462	0~Reference	0.42	0.42	---	PASS
11B	Ant1	2462	30~1000	0.42	-57.79	≤-29.58	PASS
11B	Ant1	2462	1000~26500	0.42	-44.48	≤-29.58	PASS
11G	Ant1	2412	0~Reference	2.34	2.34	---	PASS
11G	Ant1	2412	30~1000	2.34	-57.2	≤-27.66	PASS
11G	Ant1	2412	1000~26500	2.34	-44.06	≤-27.66	PASS
11G	Ant1	2437	0~Reference	2.14	2.14	---	PASS
11G	Ant1	2437	30~1000	2.14	-57.76	≤-27.86	PASS
11G	Ant1	2437	1000~26500	2.14	-43.3	≤-27.86	PASS
11G	Ant1	2462	0~Reference	-0.21	-0.21	---	PASS
11G	Ant1	2462	30~1000	-0.21	-57.79	≤-30.21	PASS
11G	Ant1	2462	1000~26500	-0.21	-44.04	≤-30.21	PASS
11N20SISO	Ant1	2412	0~Reference	1.27	1.27	---	PASS
11N20SISO	Ant1	2412	30~1000	1.27	-58.04	≤-28.73	PASS
11N20SISO	Ant1	2412	1000~26500	1.27	-43.5	≤-28.73	PASS
11N20SISO	Ant1	2437	0~Reference	1.54	1.54	---	PASS
11N20SISO	Ant1	2437	30~1000	1.54	-58.42	≤-28.46	PASS
11N20SISO	Ant1	2437	1000~26500	1.54	-44.27	≤-28.46	PASS
11N20SISO	Ant1	2462	0~Reference	-0.78	-0.78	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.78	-58	≤-30.78	PASS
11N20SISO	Ant1	2462	1000~26500	-0.78	-43.8	≤-30.78	PASS

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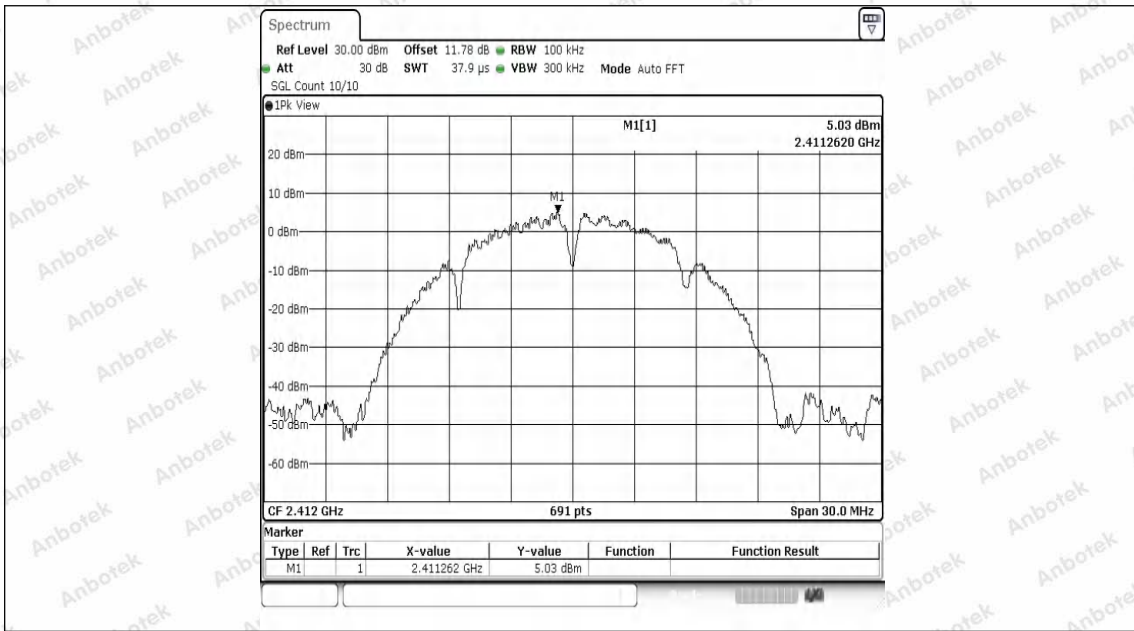
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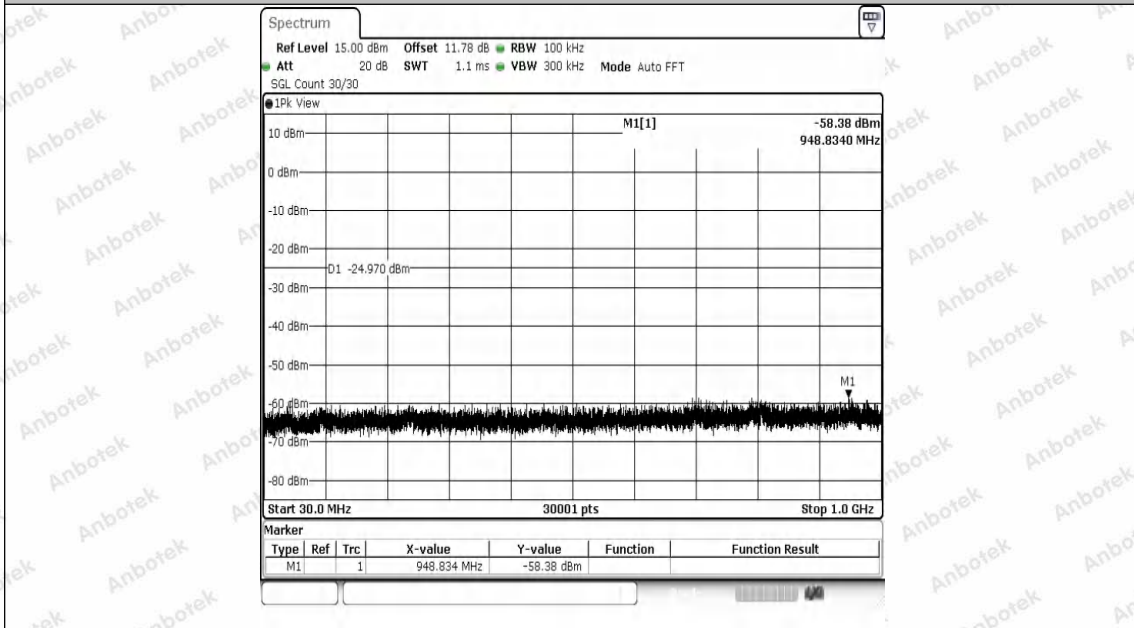
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Test Graphs

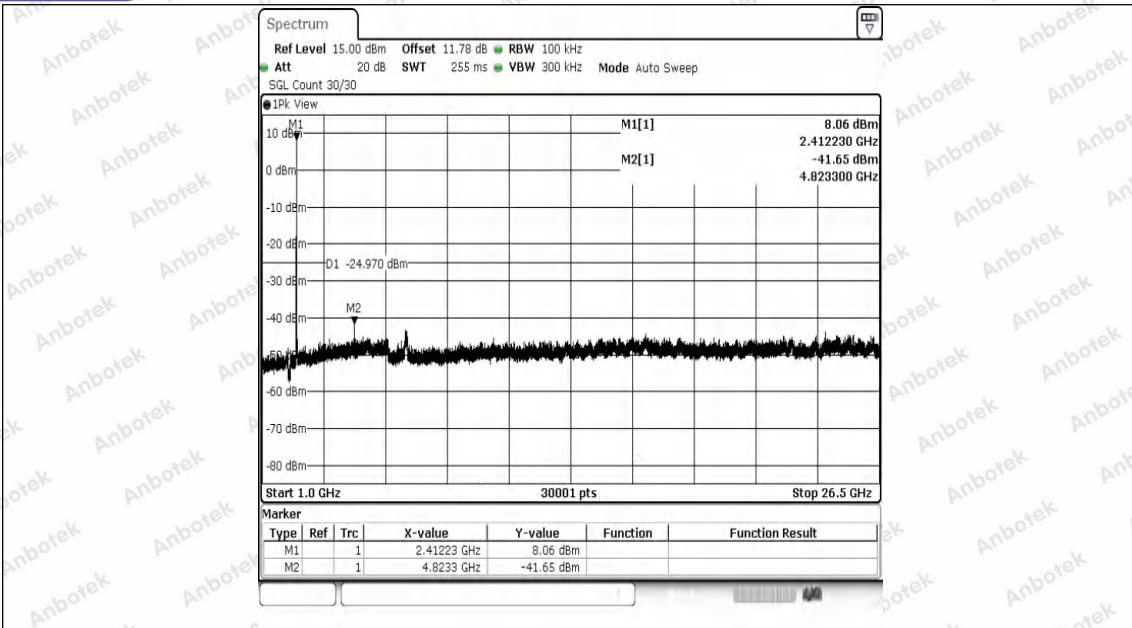


11B-Ant1-2412-0~Reference-PASS

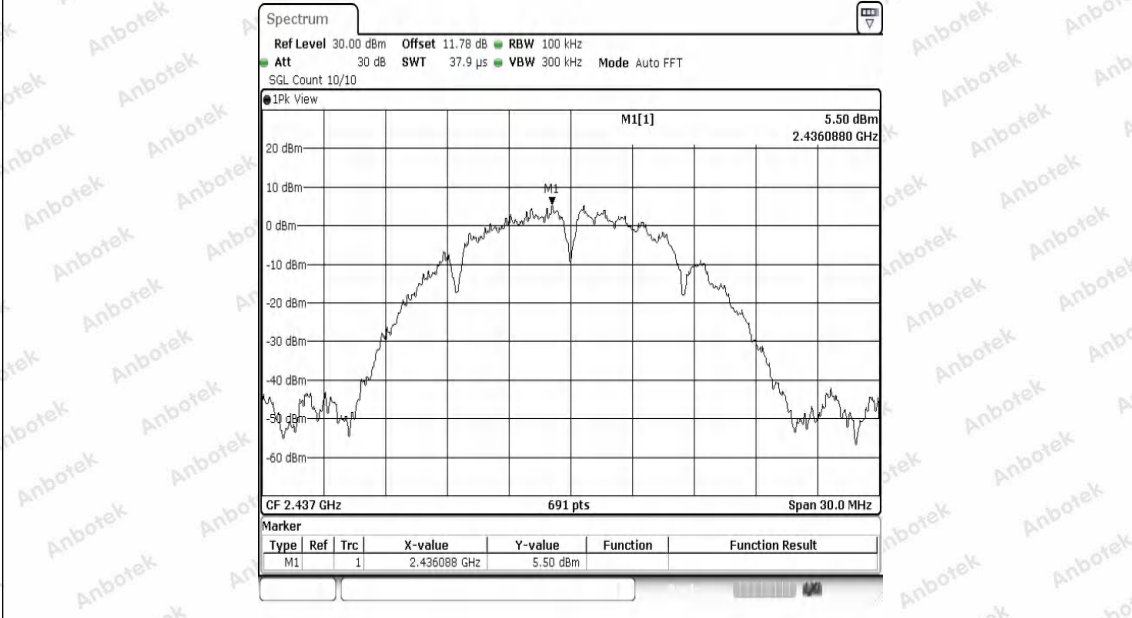


11B-Ant1-2412-30~1000-PASS



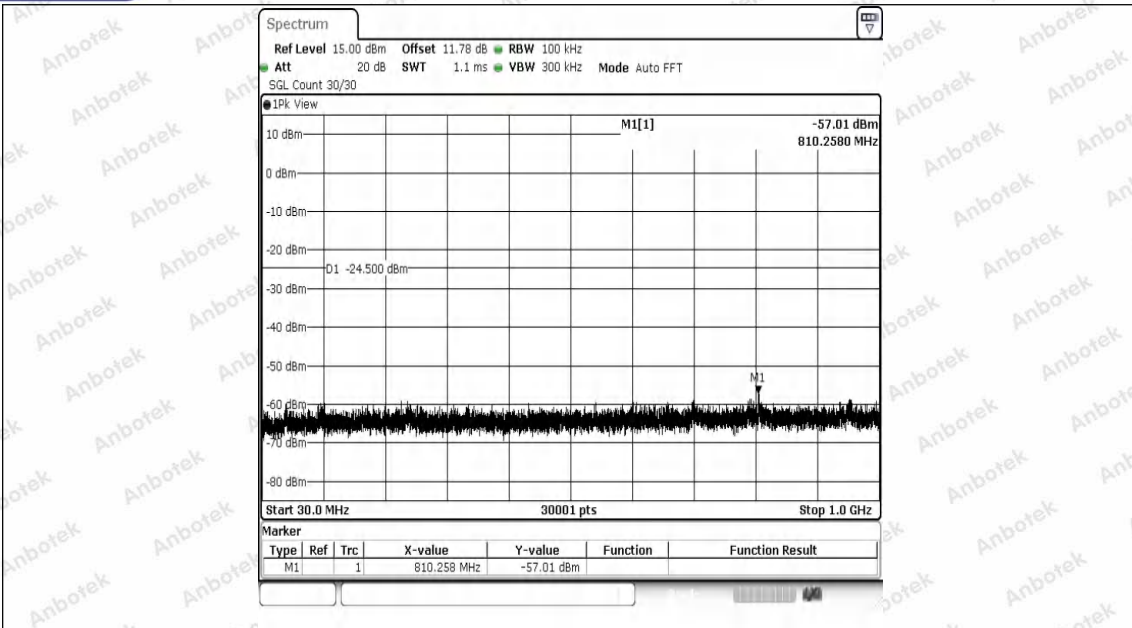


11B-Ant1-2412-1000~26500-PASS

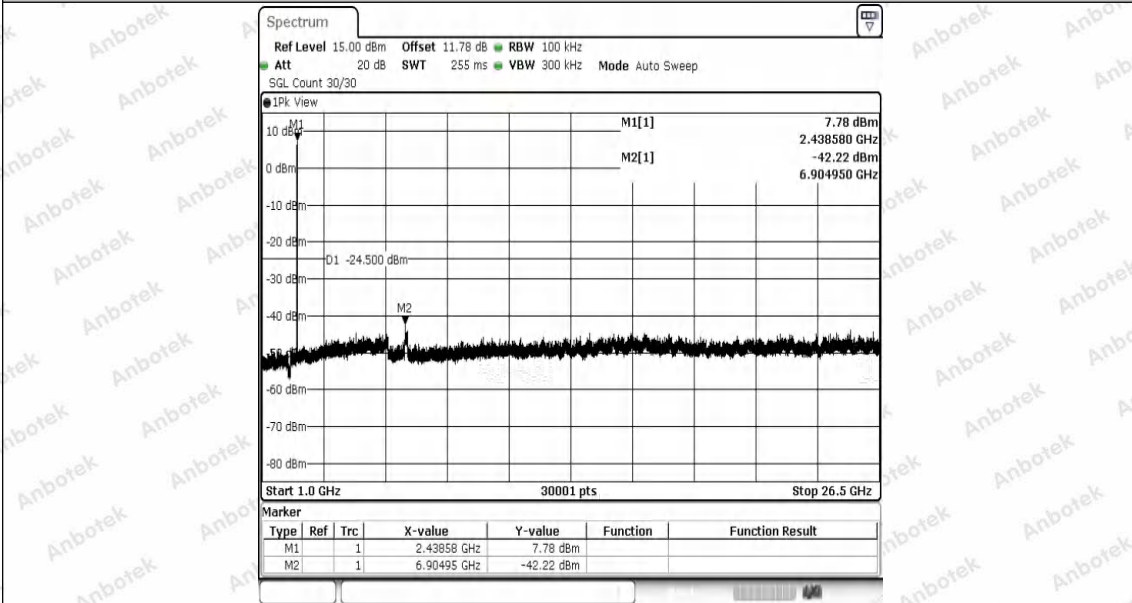


11B-Ant1-2437-0~Reference-PASS





11B-Ant1-2437-30~1000-PASS



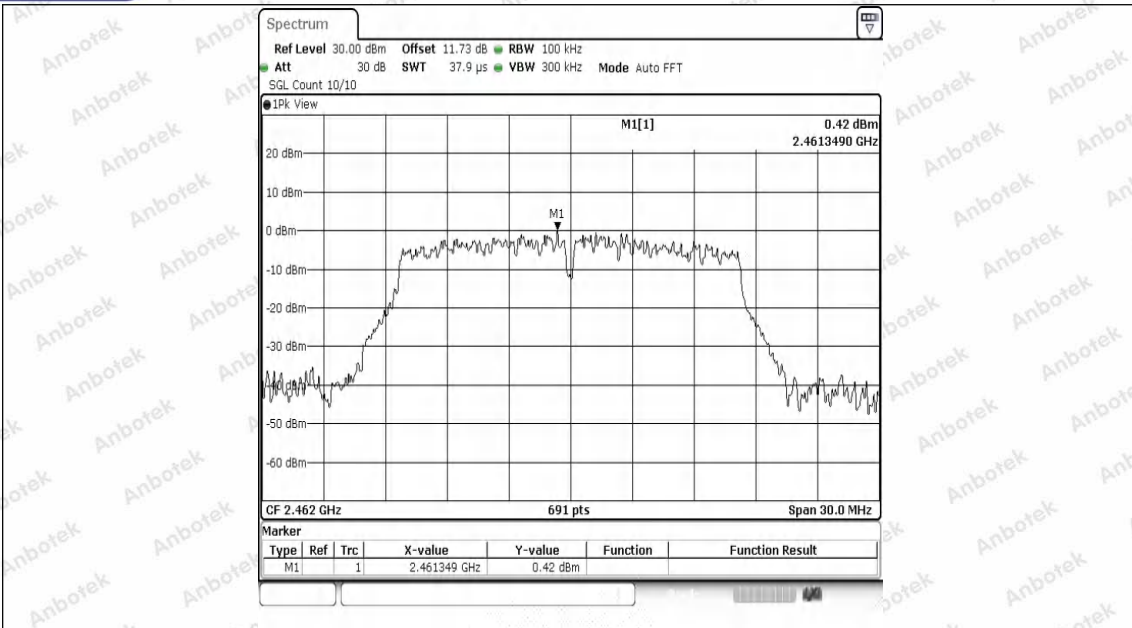
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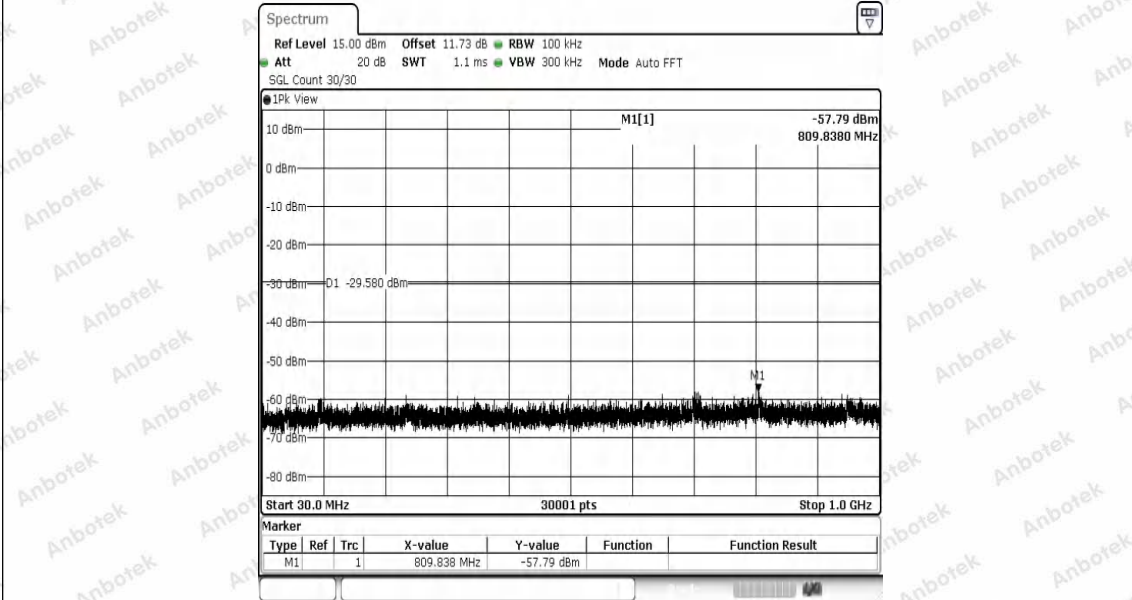
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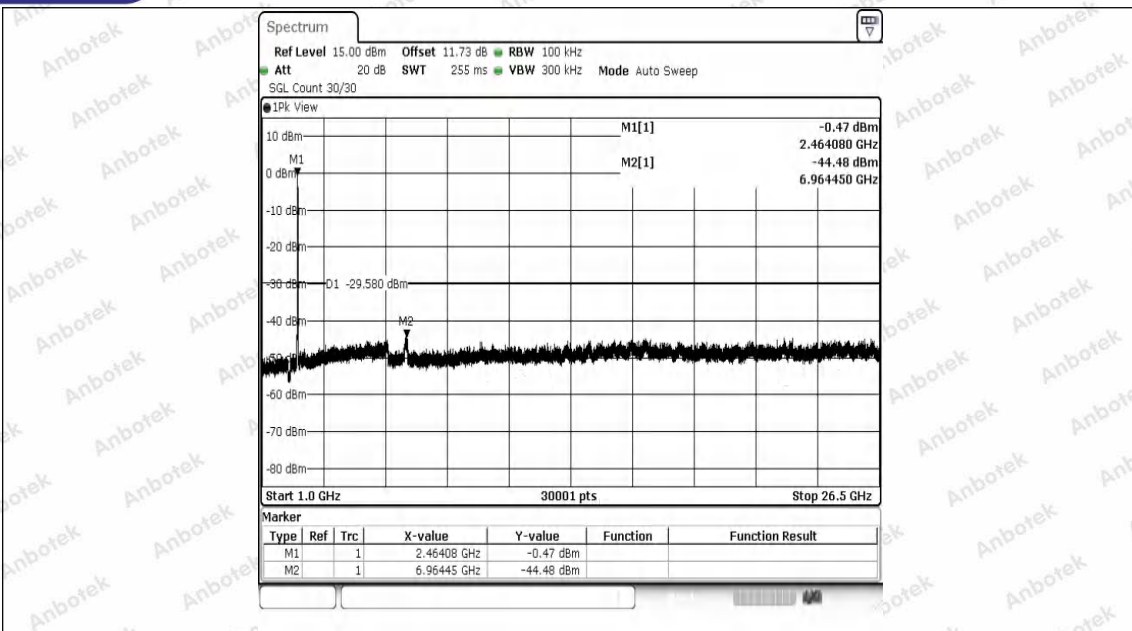


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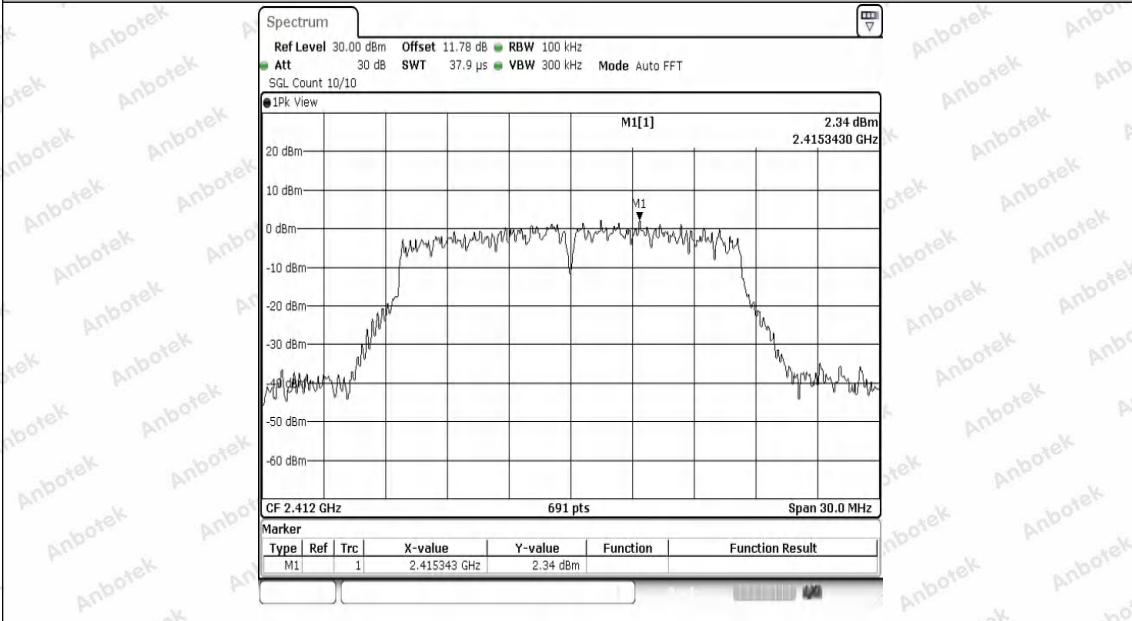


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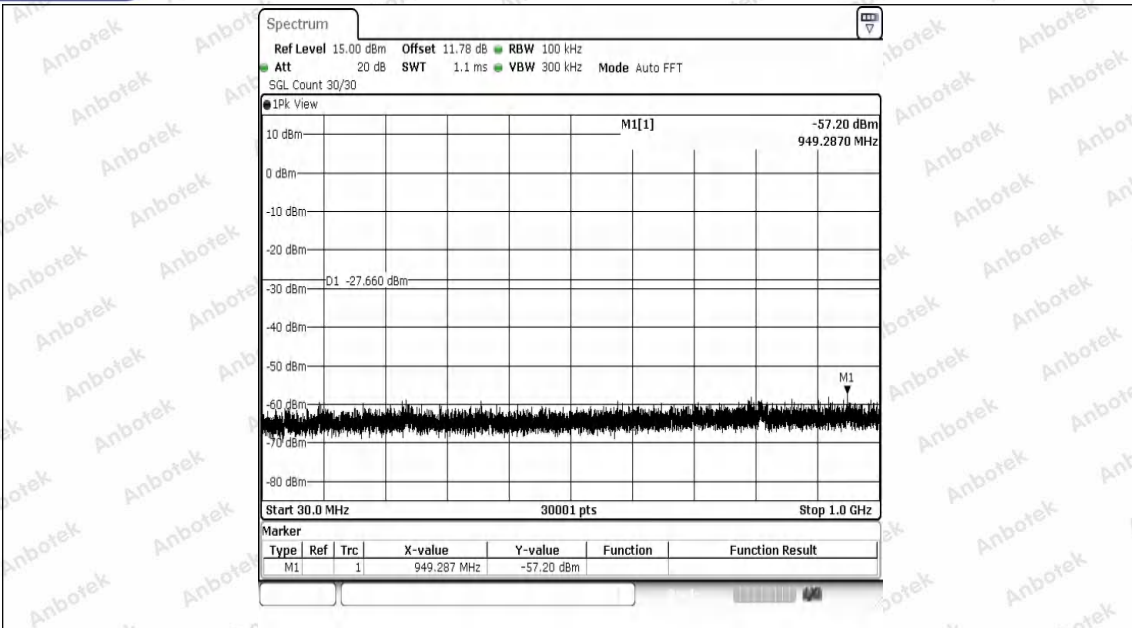


11B-Ant1-2462-1000~26500-PASS

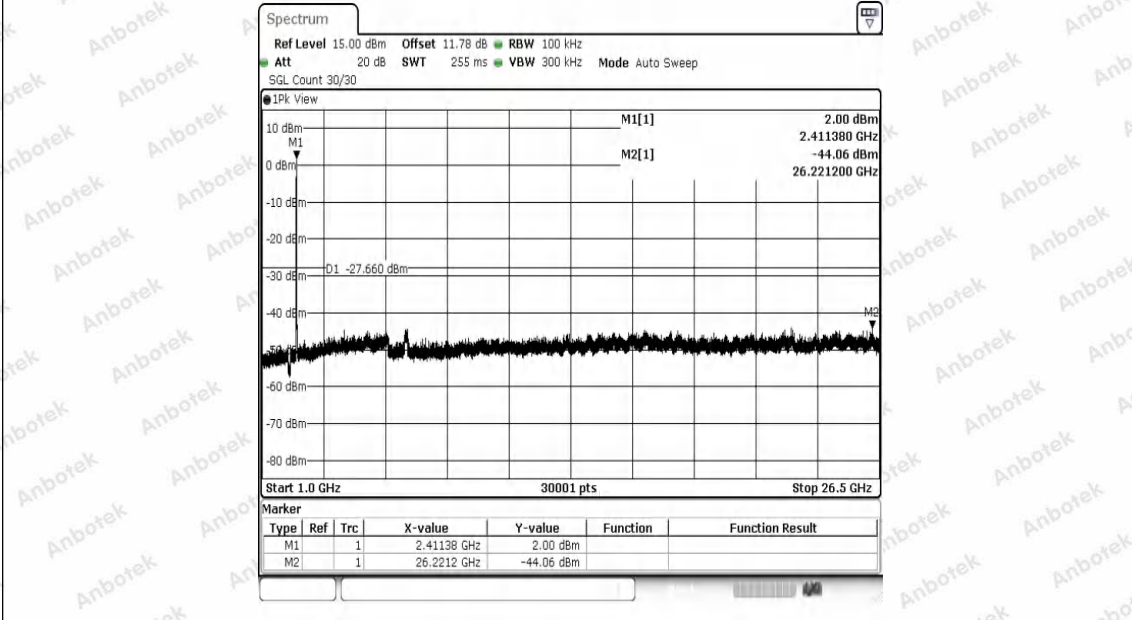


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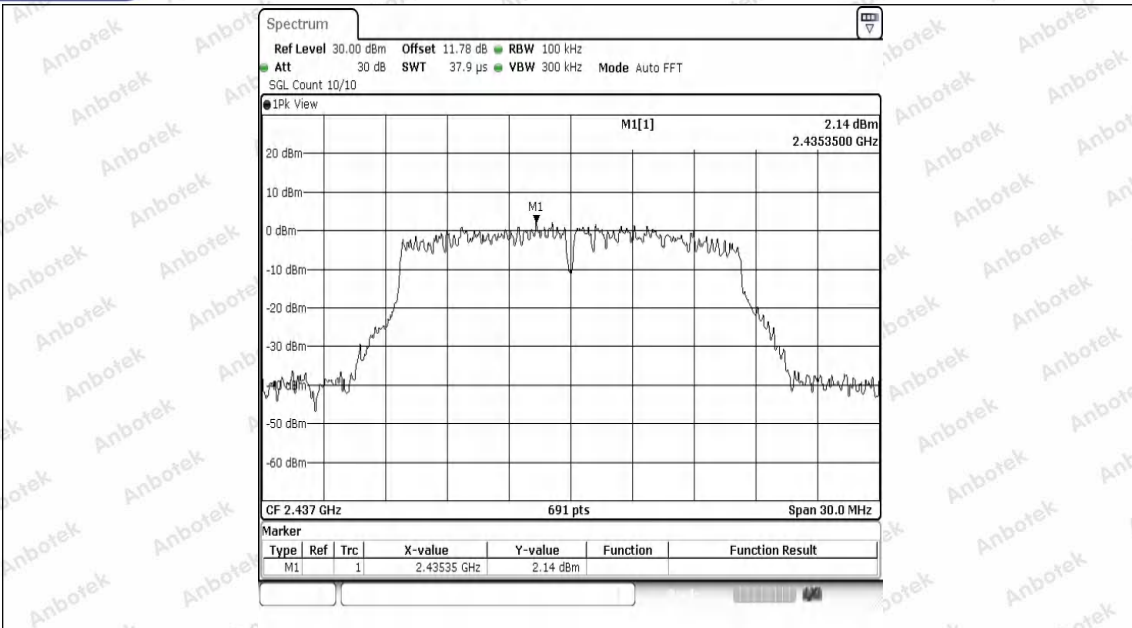


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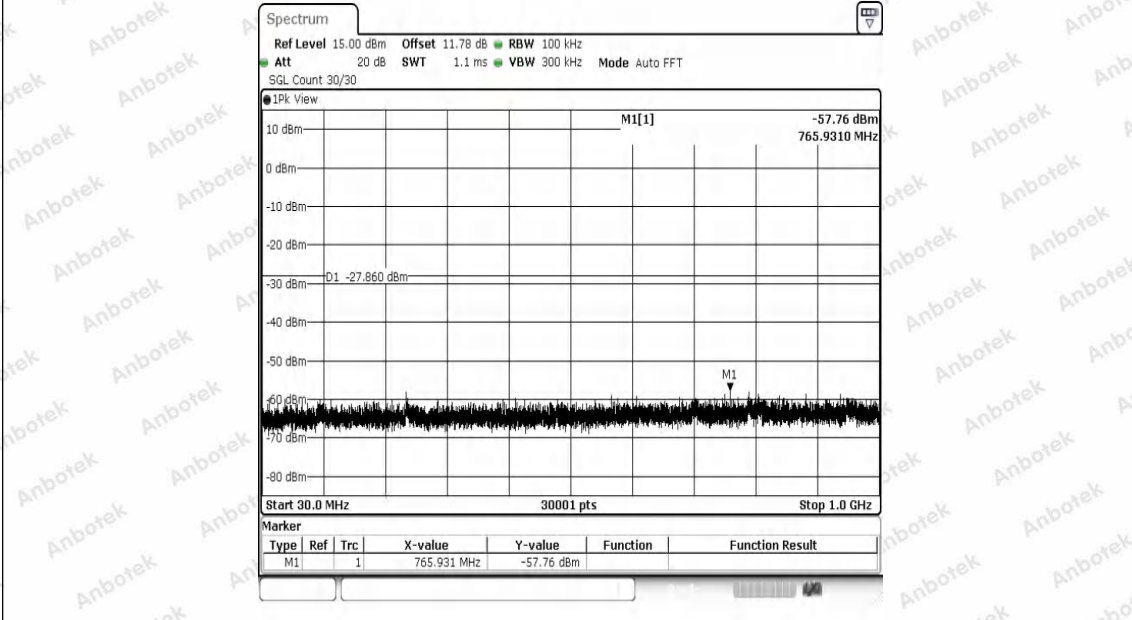


11G-Ant1-2412-1000~26500-PASS



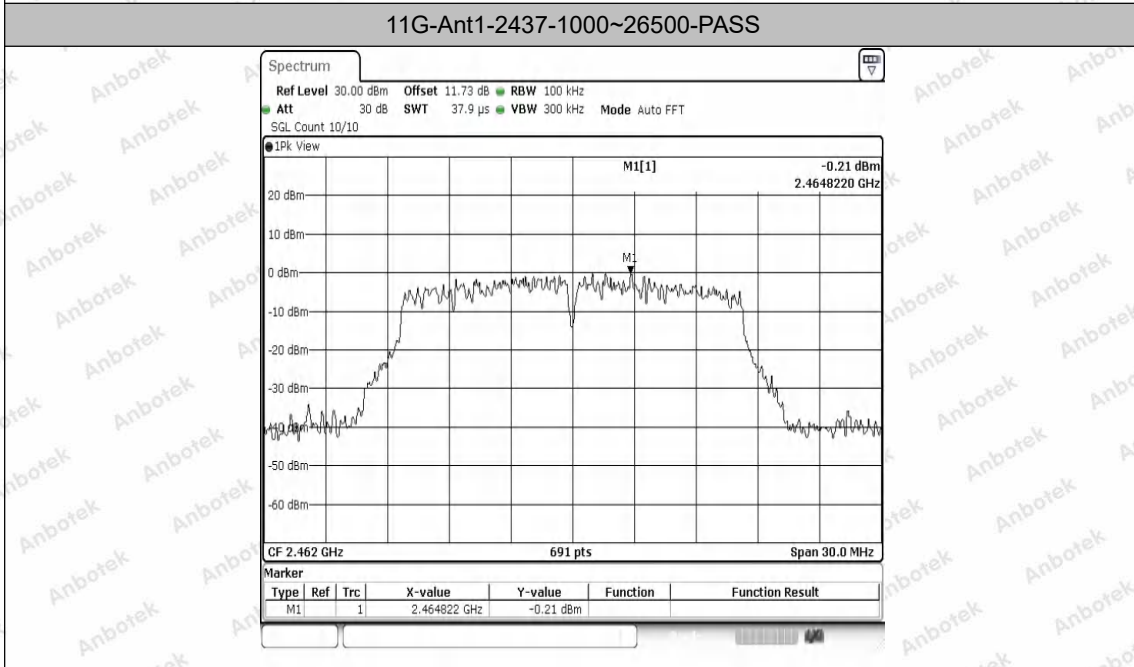
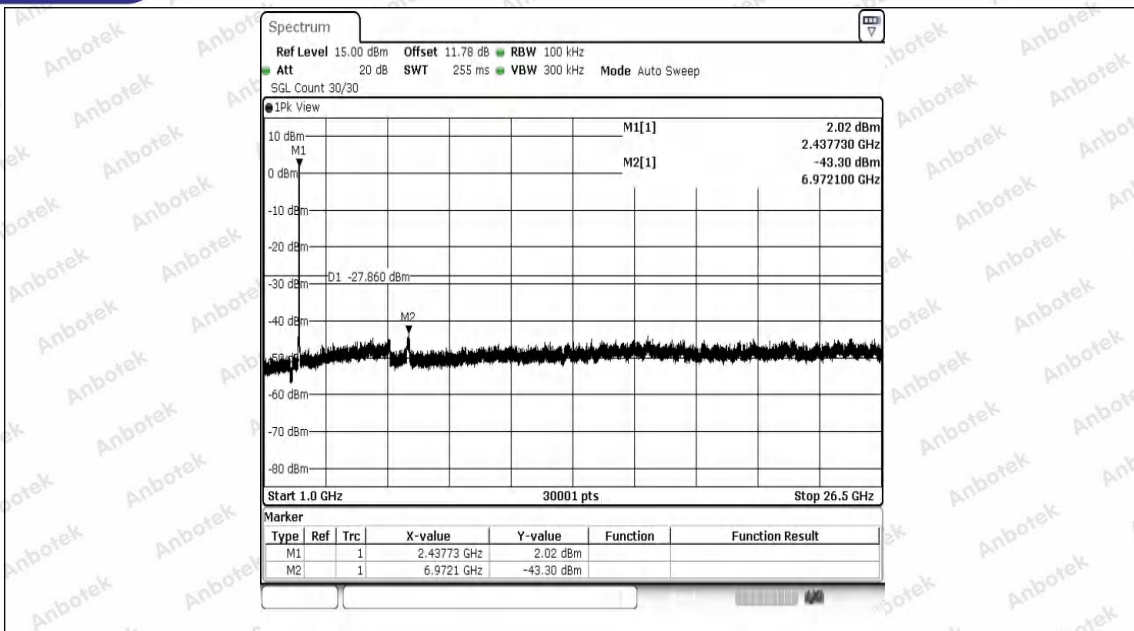


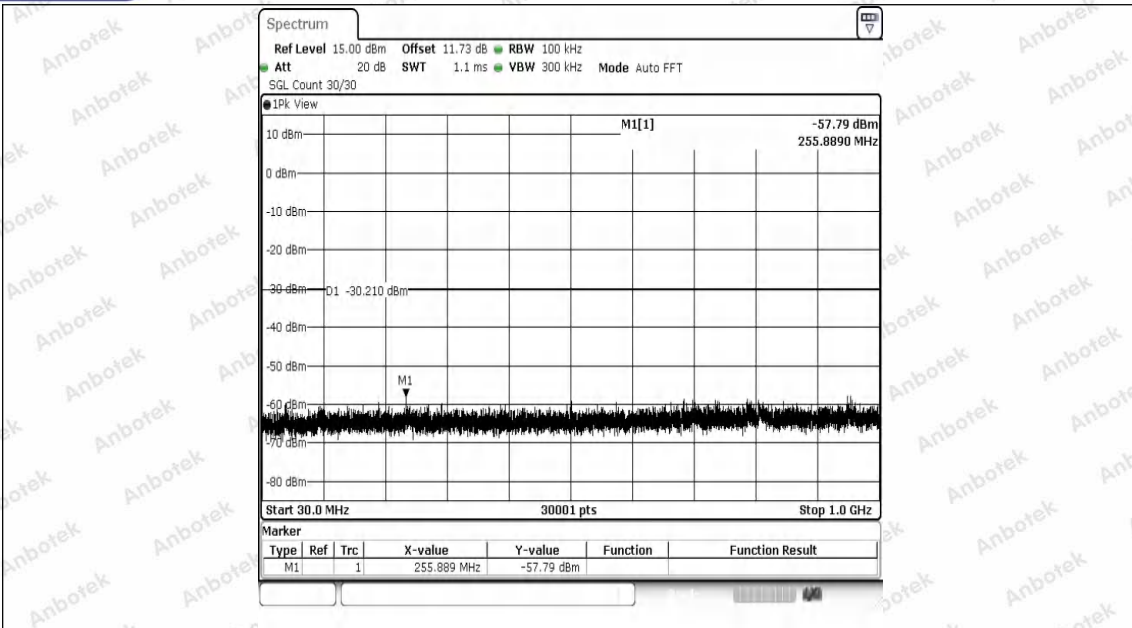
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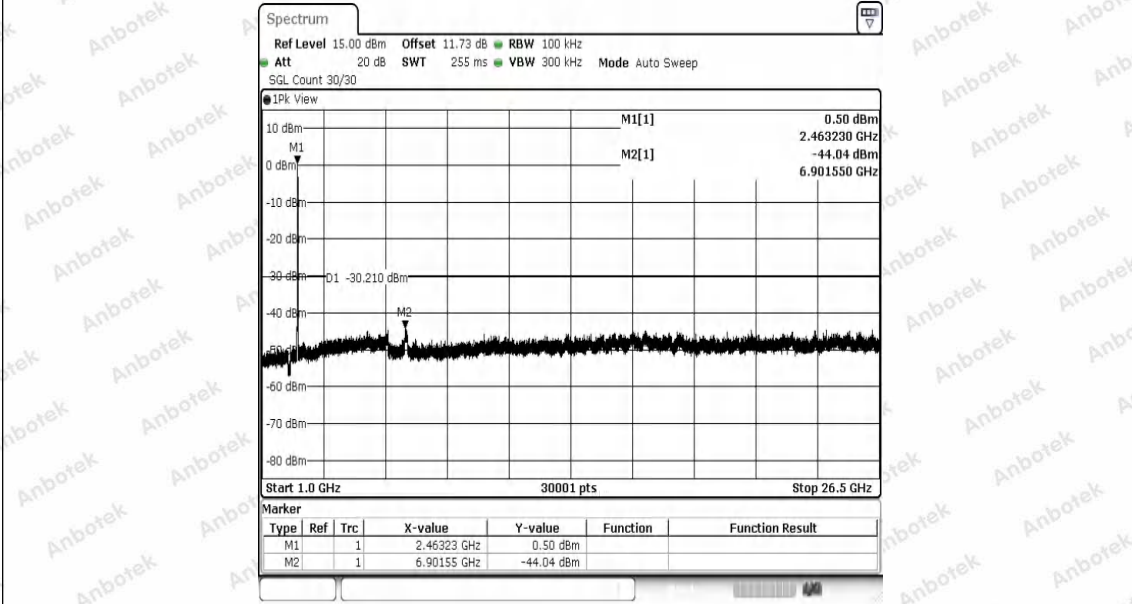
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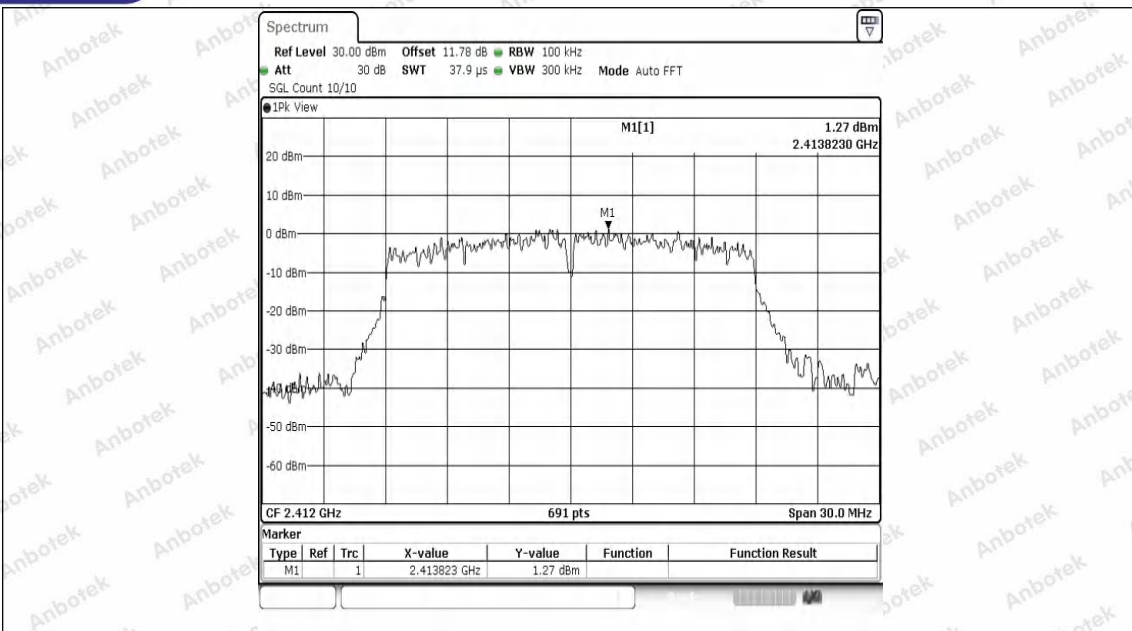


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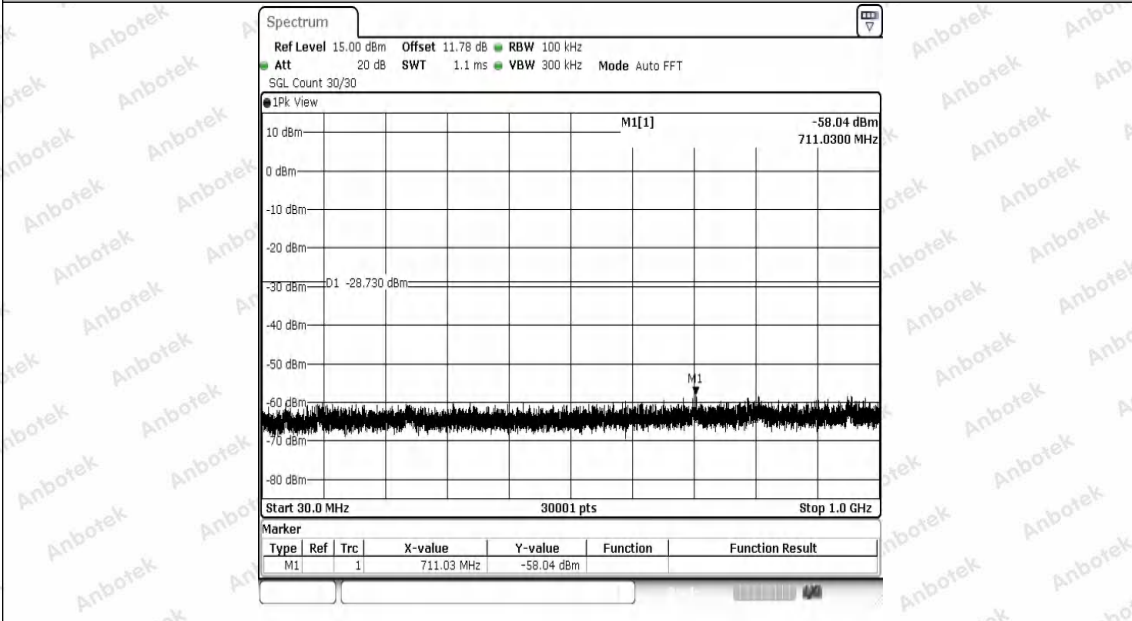


11G-Ant1-2462-1000~26500-PASS



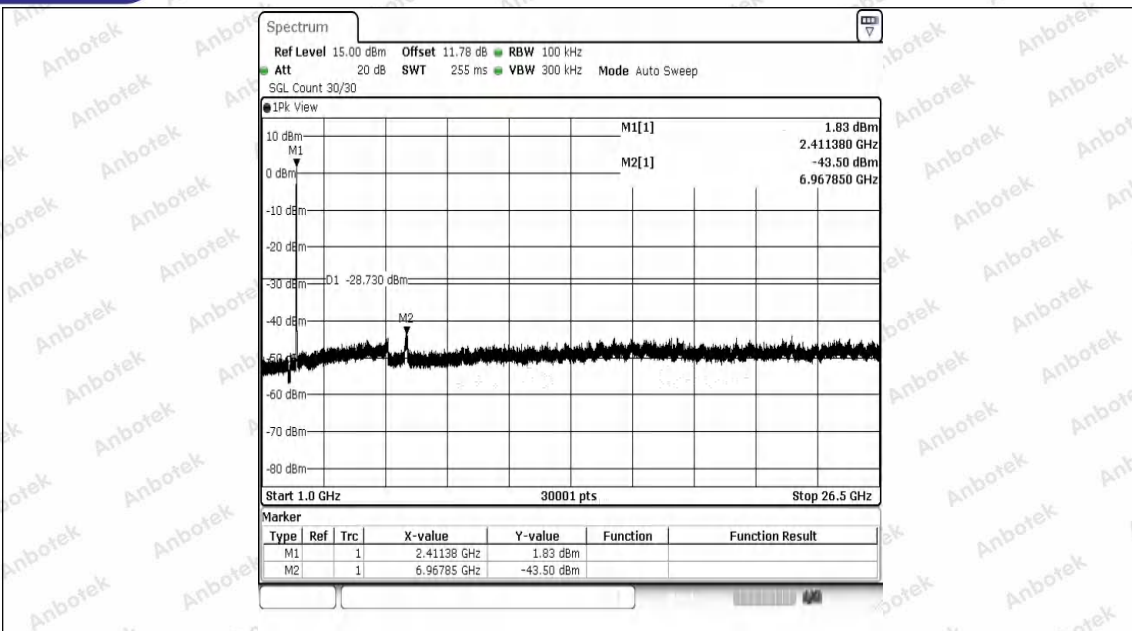


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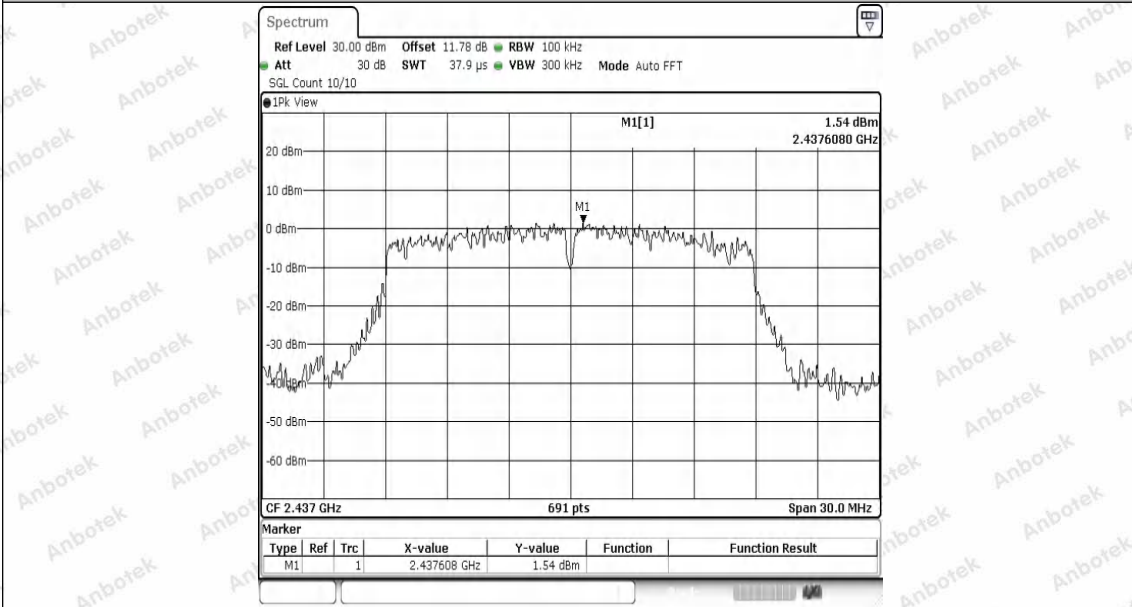


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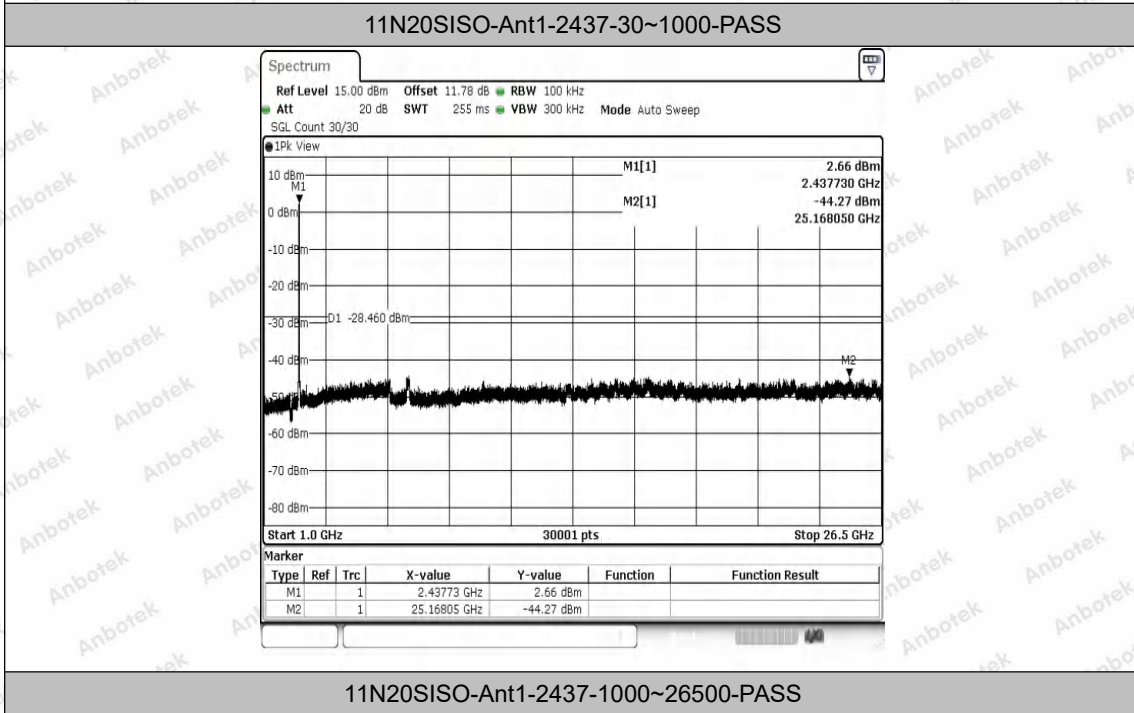
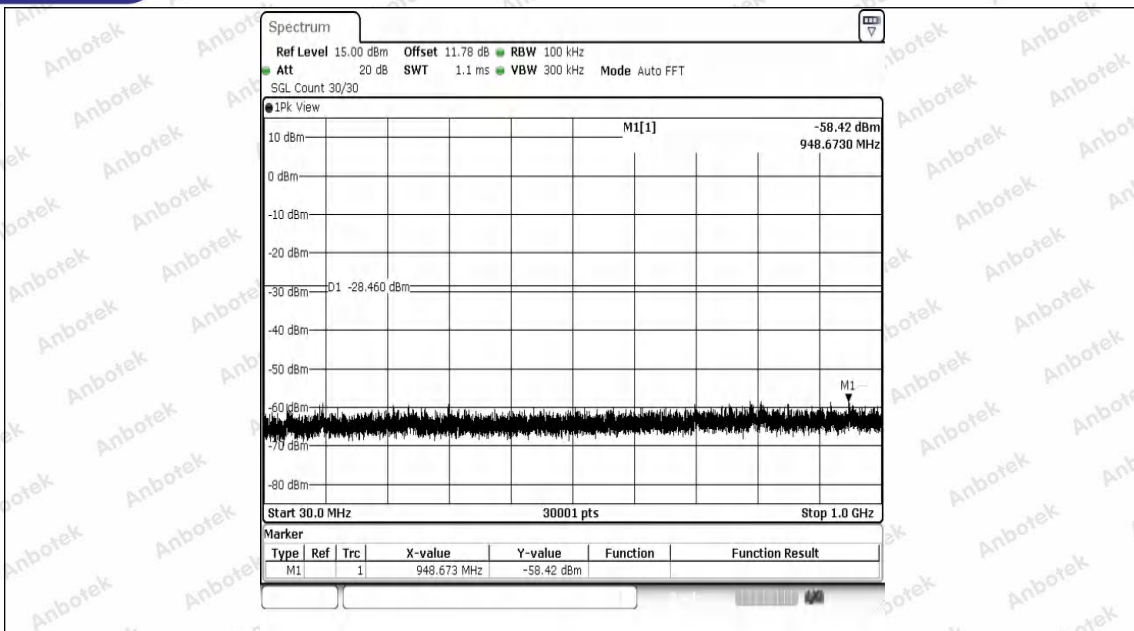


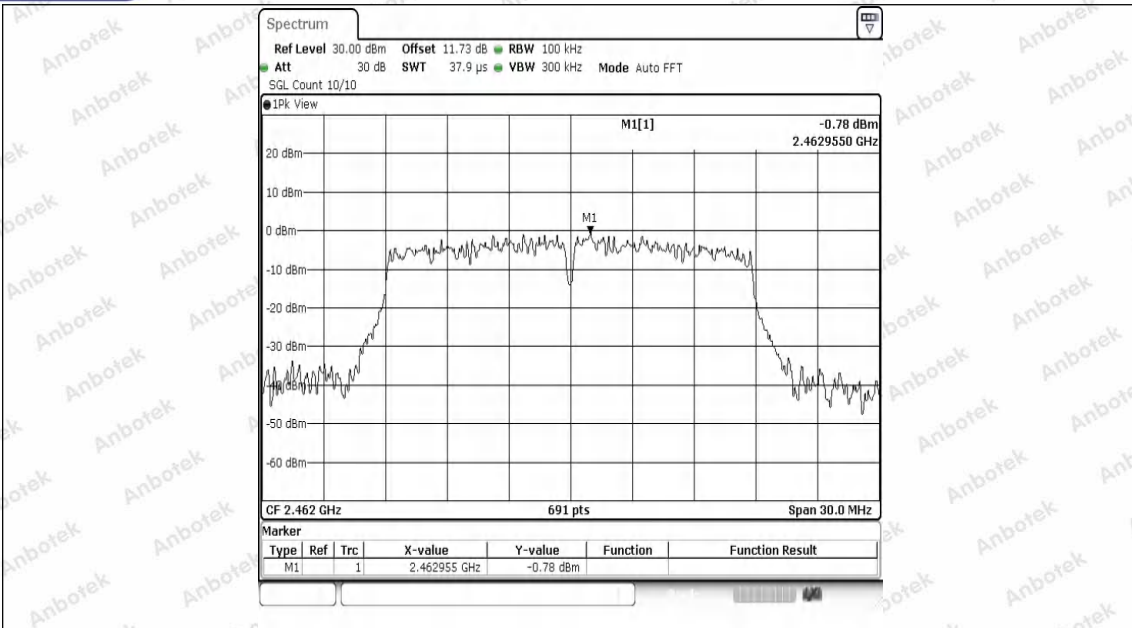
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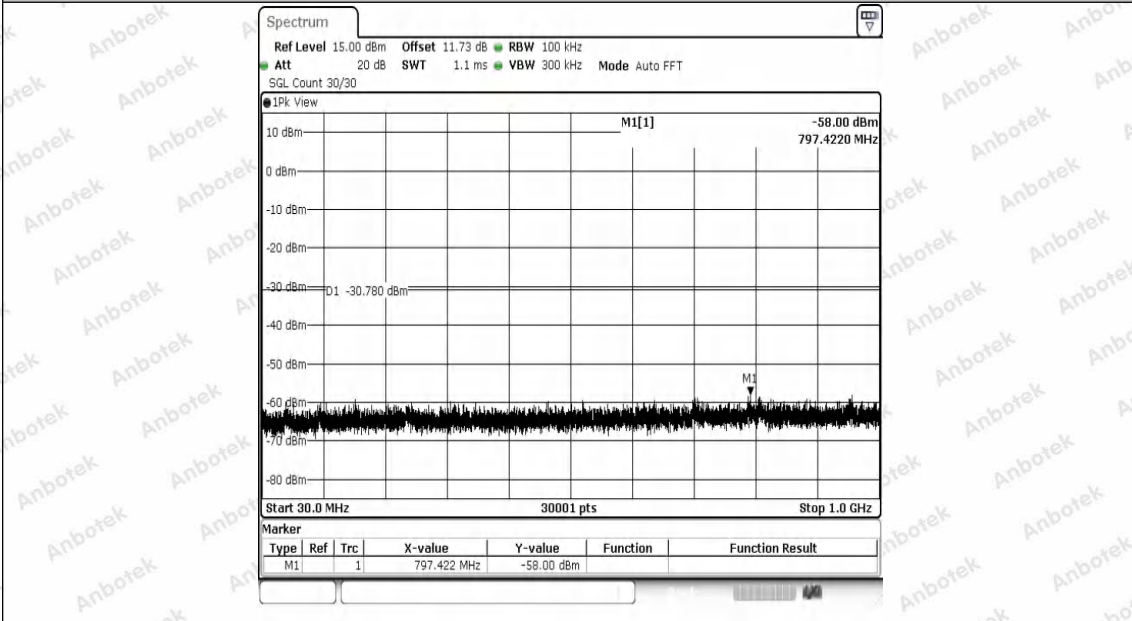
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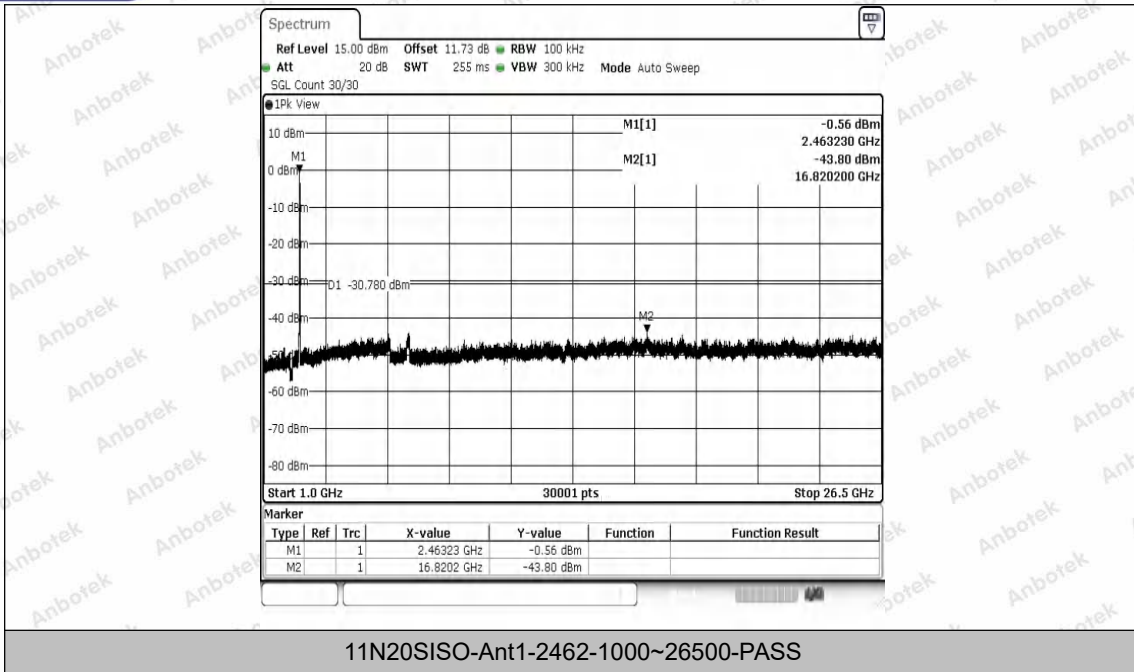


11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS





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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.40	8.93	94.06	0.27
11B	Ant1	2437	8.39	8.94	93.85	0.28
11B	Ant1	2462	8.39	8.94	93.85	0.28
11G	Ant1	2412	1.39	1.91	72.77	1.38
11G	Ant1	2437	1.40	1.78	78.65	1.04
11G	Ant1	2462	1.39	1.92	72.40	1.40
11N20SISO	Ant1	2412	1.30	1.62	80.25	0.96
11N20SISO	Ant1	2437	1.31	1.62	80.86	0.92
11N20SISO	Ant1	2462	1.31	1.90	68.95	1.61

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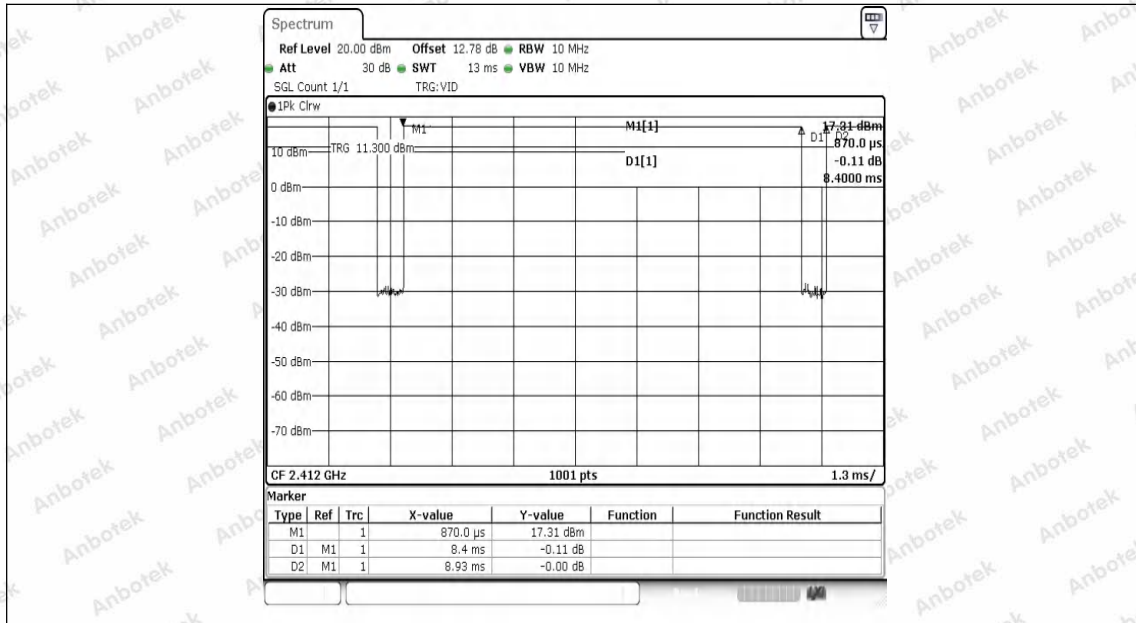
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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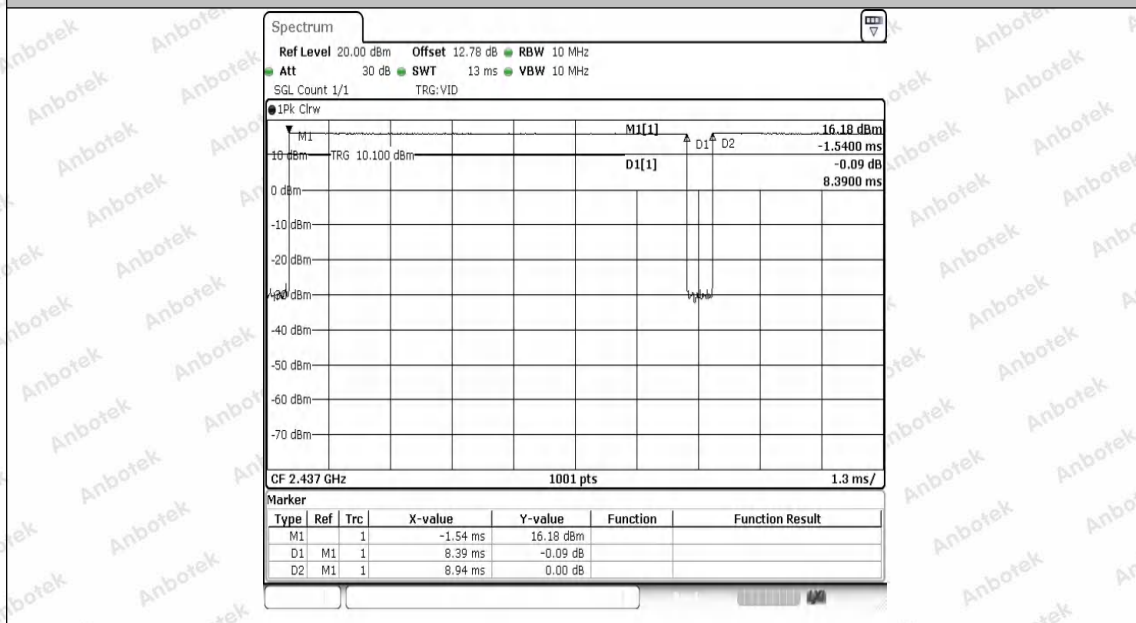
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Test Graphs



NTVN-11B-Ant1-2412



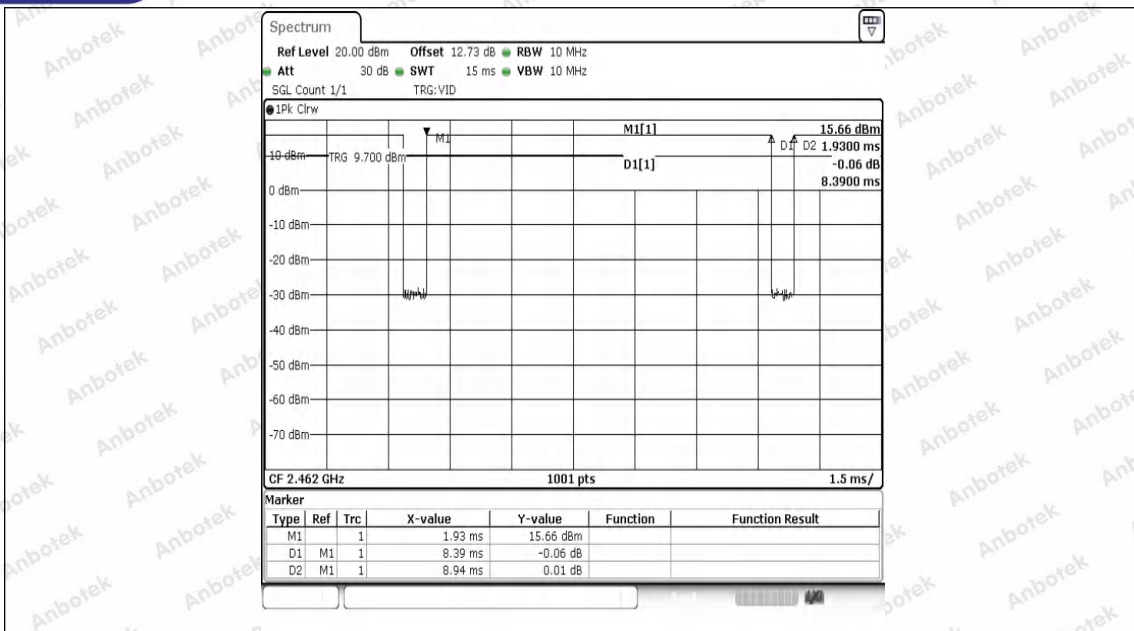
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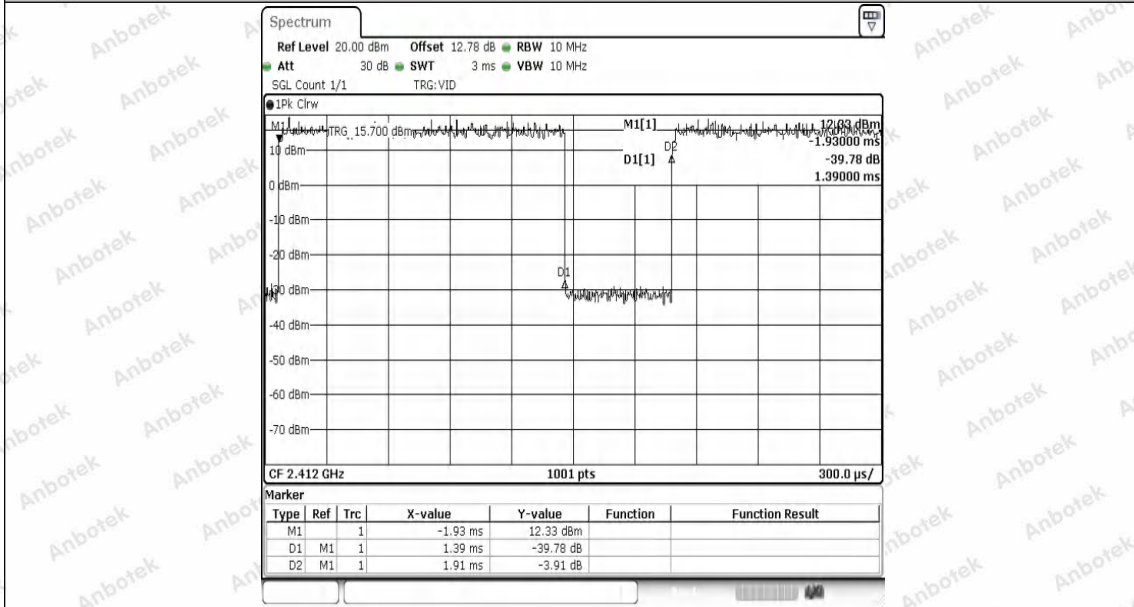
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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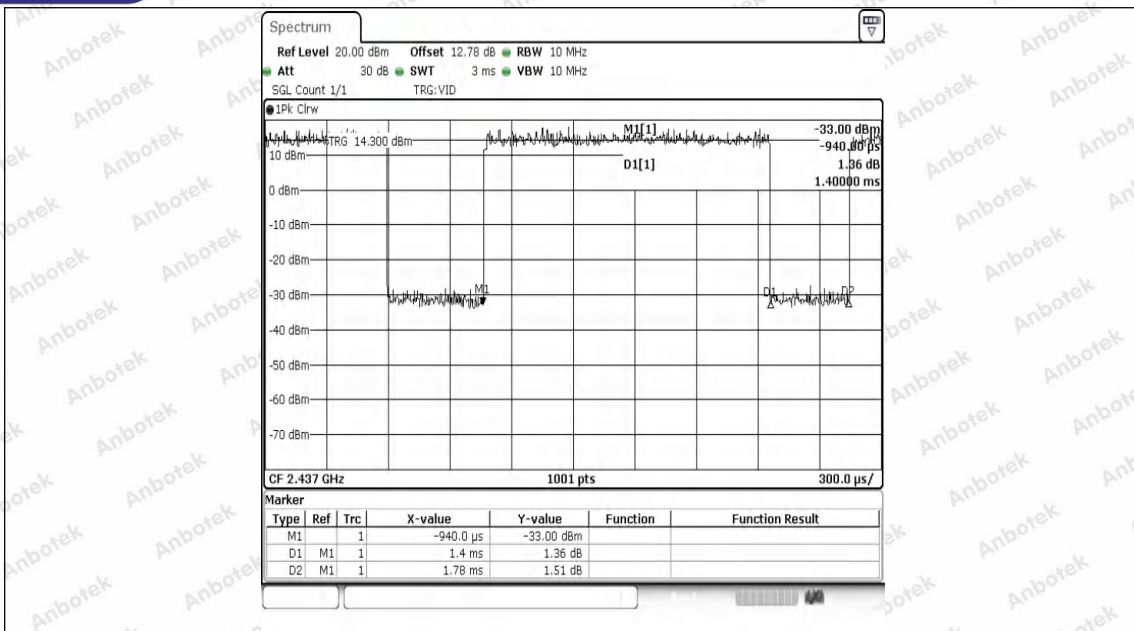


NTNV-11B-Ant1-2462

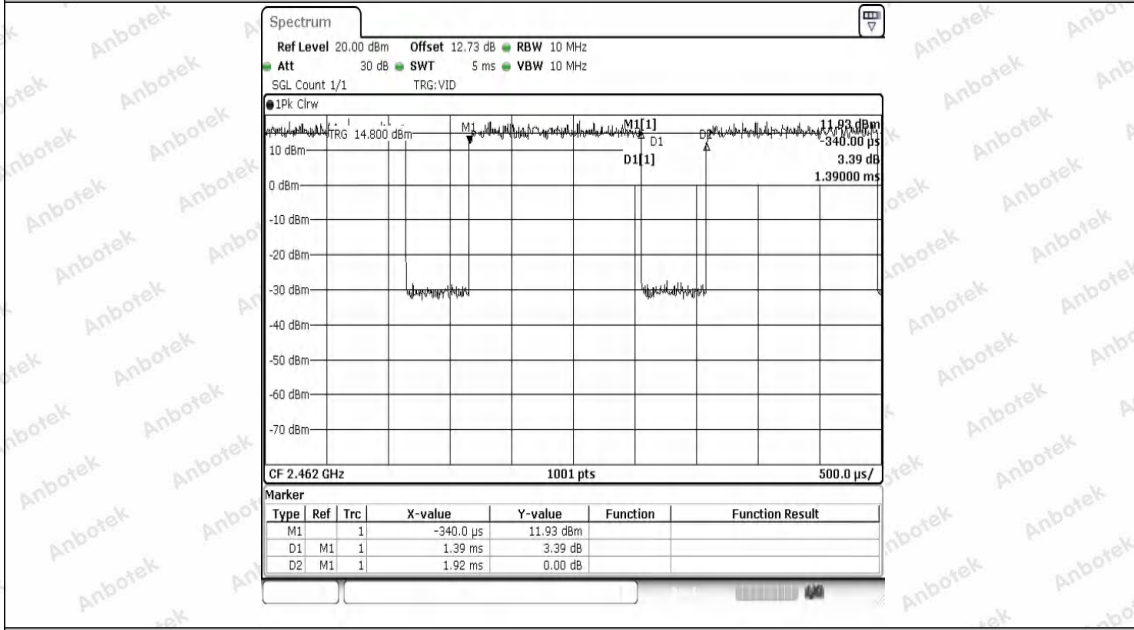


NTNV-11G-Ant1-2412





NTNV-11G-Ant1-2437



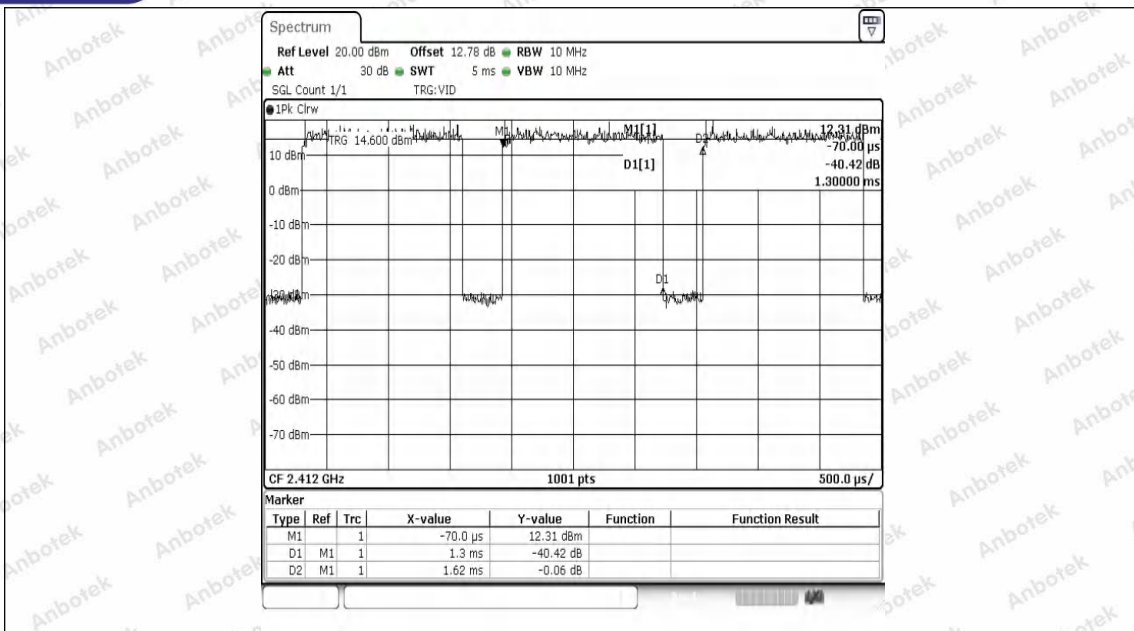
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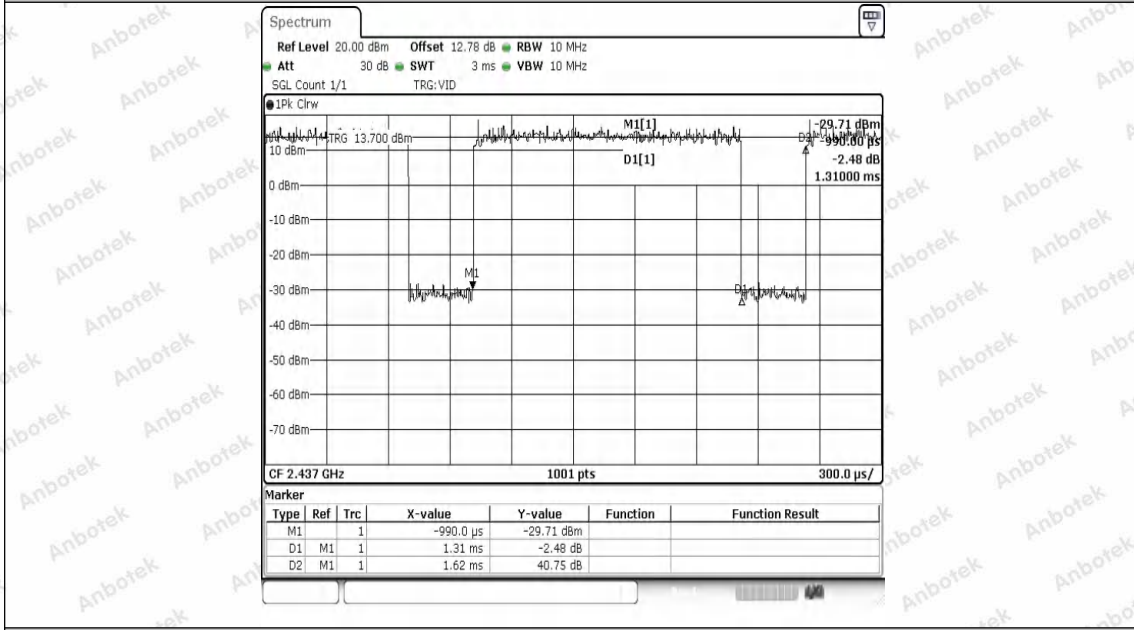
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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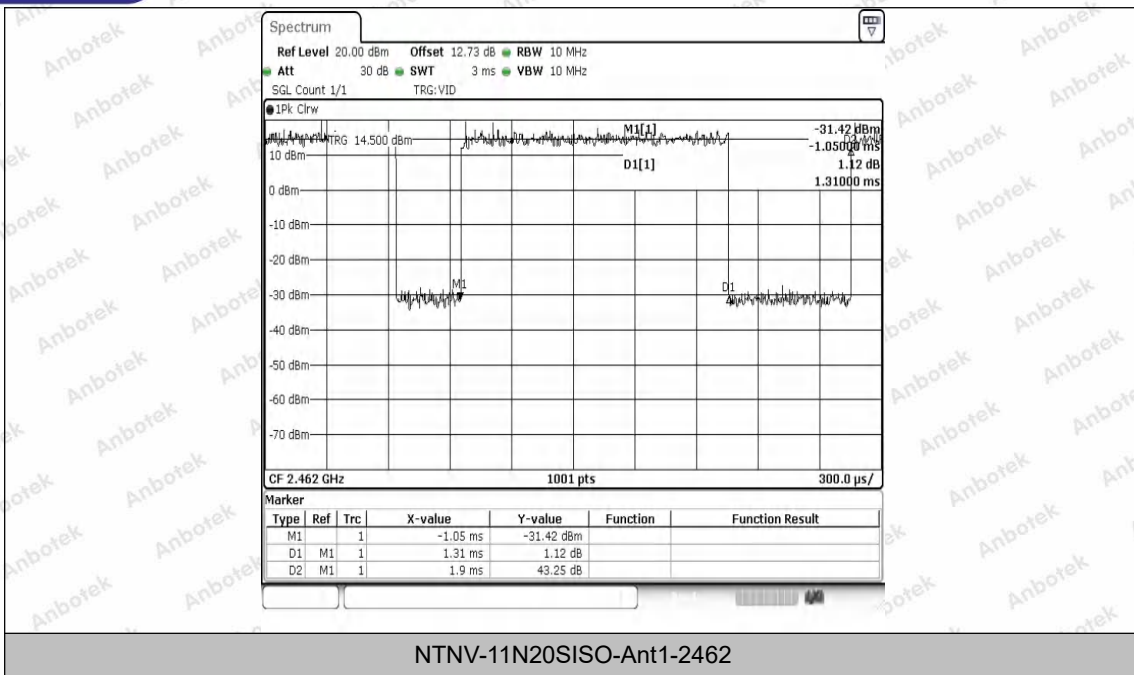


NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437





NTNV-11N20SISO-Ant1-2462

---End---

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