Appendix Test Data

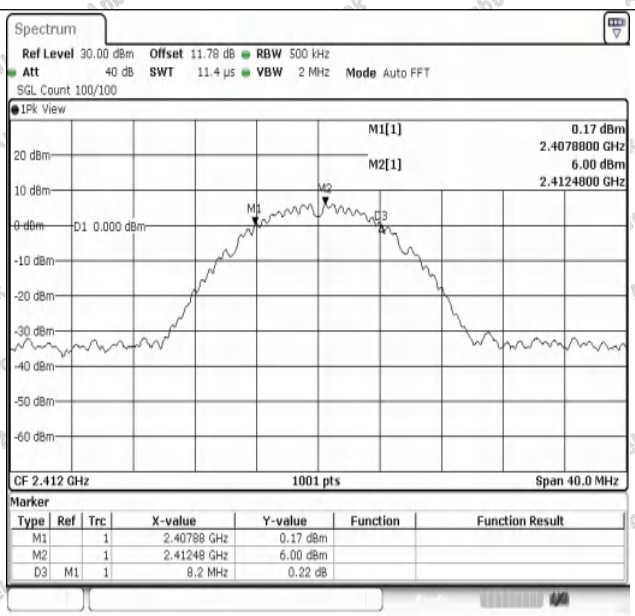
Report No:	1813C40065012503	Test Sample NO:	1-2-2
Start Test Date:	2024.10.14	Finish Test Date:	2024.10.14.
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.9℃	Relative Humidity:	55%
Pressure:	101 kPa		

Appendix A: DTS Bandwidth

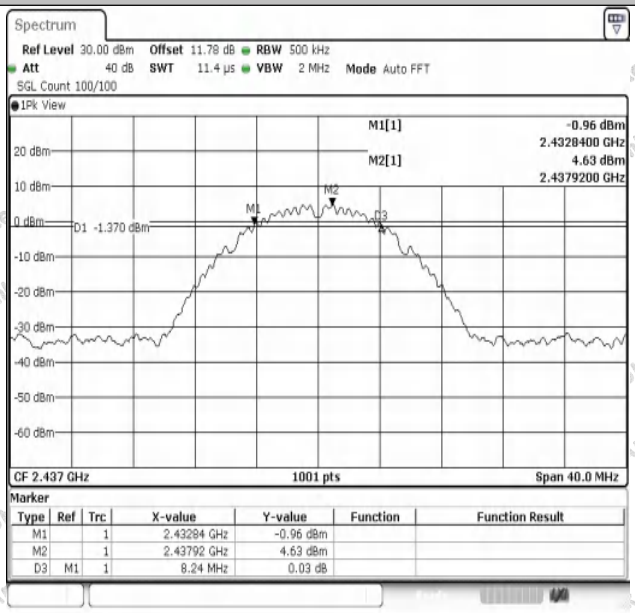
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.20	2407.88	2416.08	0.5	PASS
11B	Ant1	2437	8.24	2432.84	2441.08	0.5	PASS
11B	Ant1	2462	8.24	2457.80	2466.04	0.5	PASS
11G	Ant1	2412	15.68	2404.24	2419.92	0.5	PASS
11G	Ant1	2437	16.00	2428.92	2444.92	0.5	PASS
11G	Ant1	2462	15.80	2453.76	2469.56	0.5	PASS
11N20SISO	Ant1	2412	16.72	2403.92	2420.64	0.5	PASS
11N20SISO	Ant1	2437	17.56	2428.16	2445.72	0.5	PASS
11N20SISO	Ant1	2462	16.32	2453.32	2469.64	0.5	PASS
11N40SISO	Ant1	2422	34.00	2405.36	2439.36	0.5	PASS
11N40SISO	Ant1	2437	34.08	2419.08	2453.16	0.5	PASS
11N40SISO	Ant1	2452	32.96	2434.88	2467.84	0.5	PASS
11AX20SISO	Ant1	2412	18.68	2402.72	2421.40	0.5	PASS
11AX20SISO	Ant1	2437	16.44	2429.36	2445.80	0.5	PASS
11AX20SISO	Ant1	2462	18.48	2452.64	2471.12	0.5	PASS
11AX40SISO	Ant1	2422	37.44	2403.36	2440.80	0.5	PASS
11AX40SISO	Ant1	2437	34.64	2419.48	2454.12	0.5	PASS
11AX40SISO	Ant1	2452	36.80	2433.20	2470.00	0.5	PASS

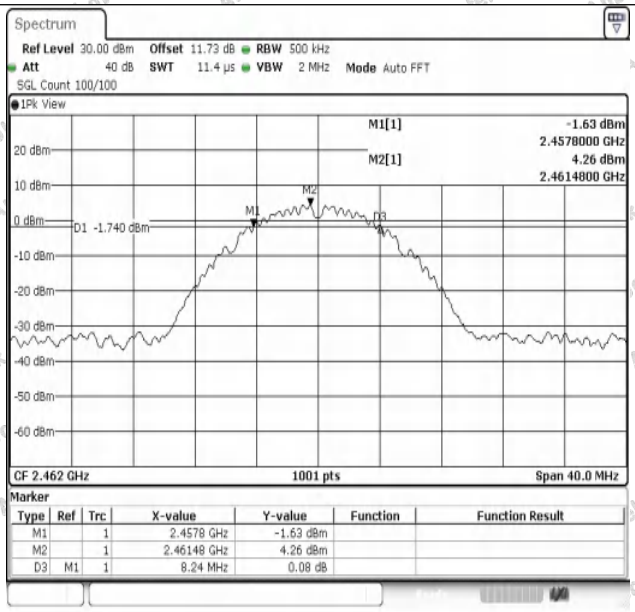
Test Graphs



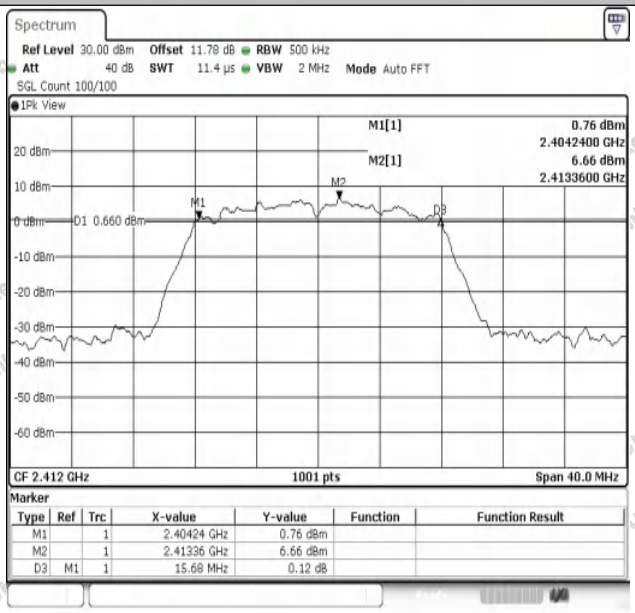
11B-Ant1-2412-PASS



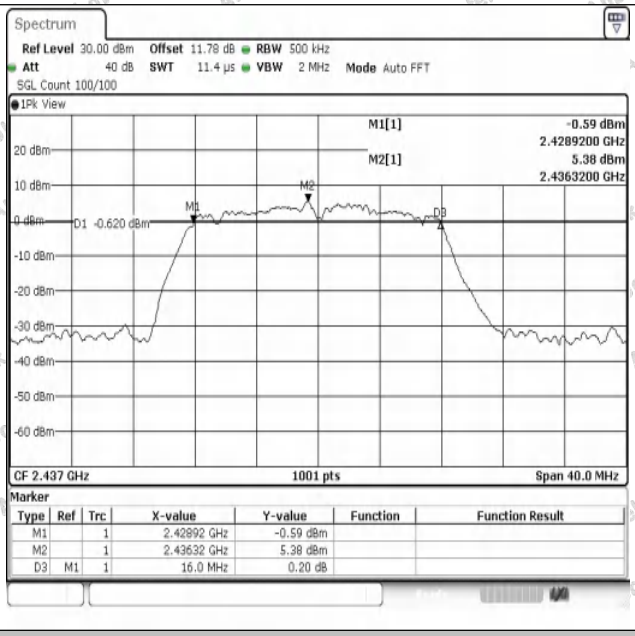
11B-Ant1-2437-PASS



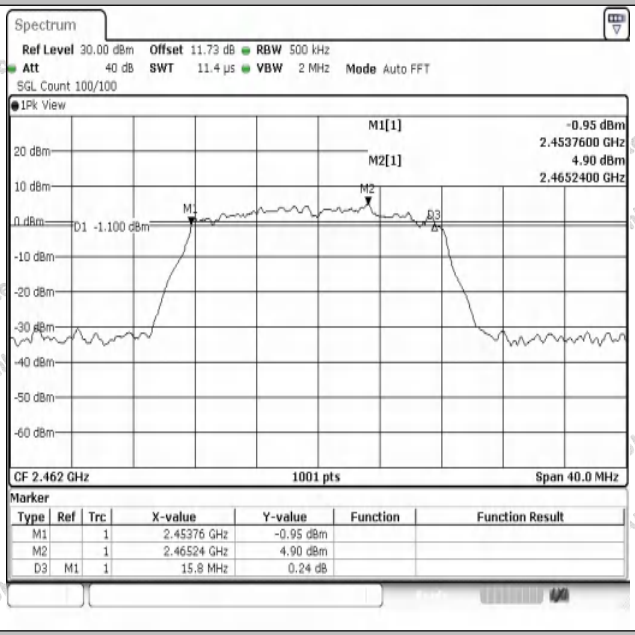
11B-Ant1-2462-PASS



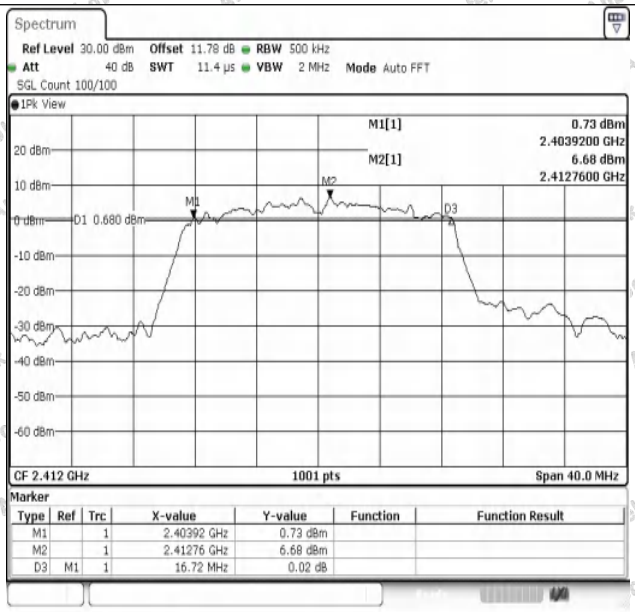
11G-Ant1-2412-PASS



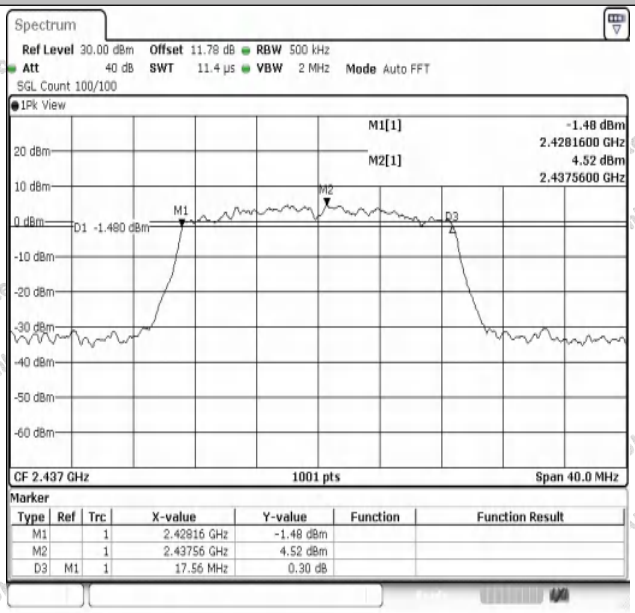
11G-Ant1-2437-PASS



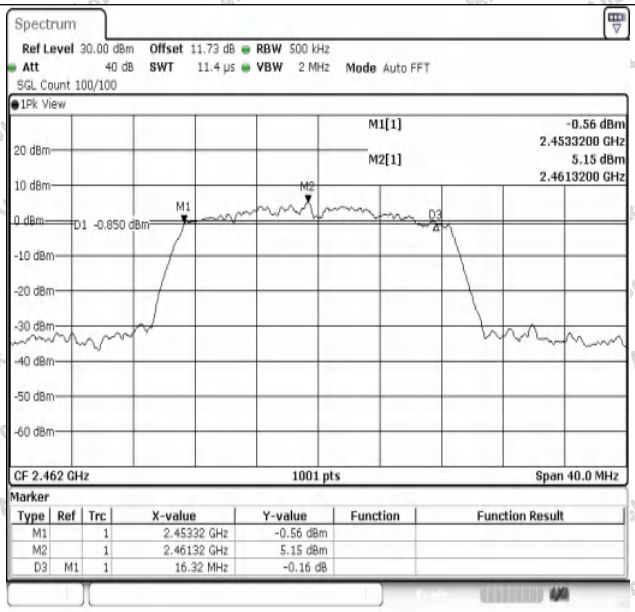
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



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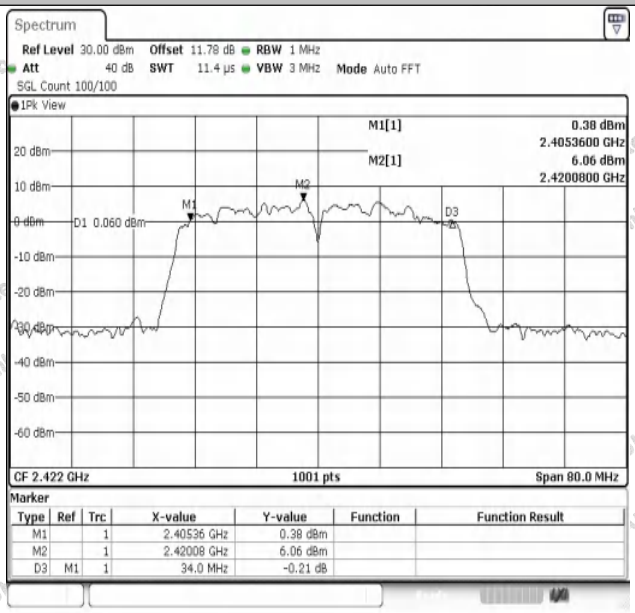
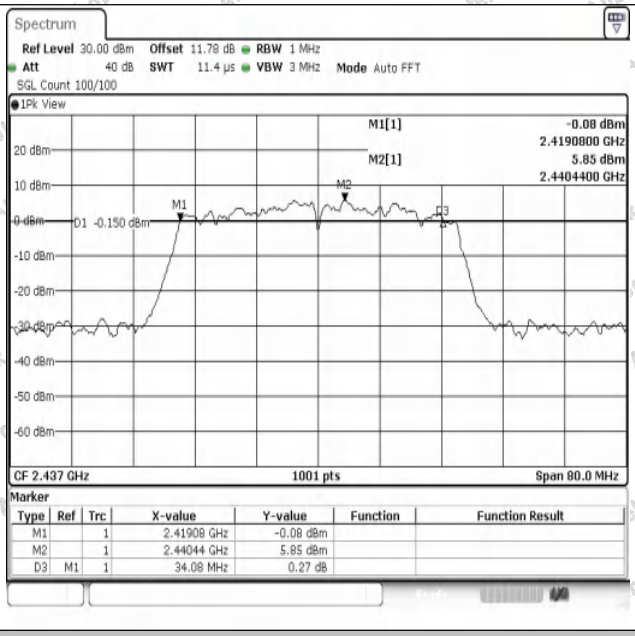
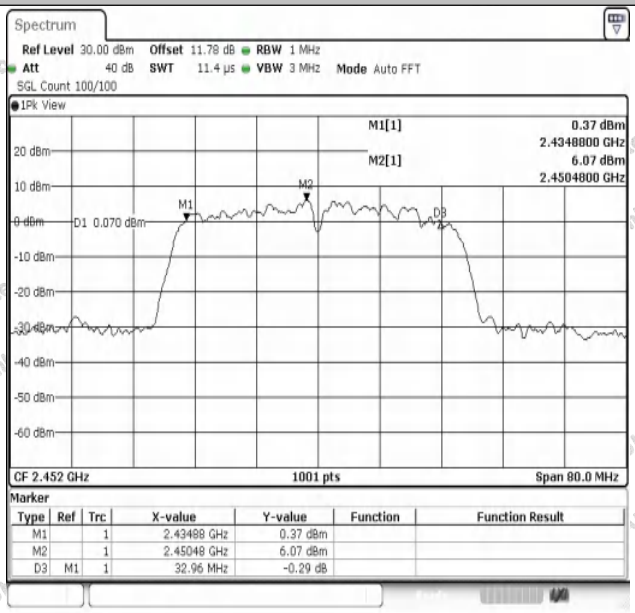


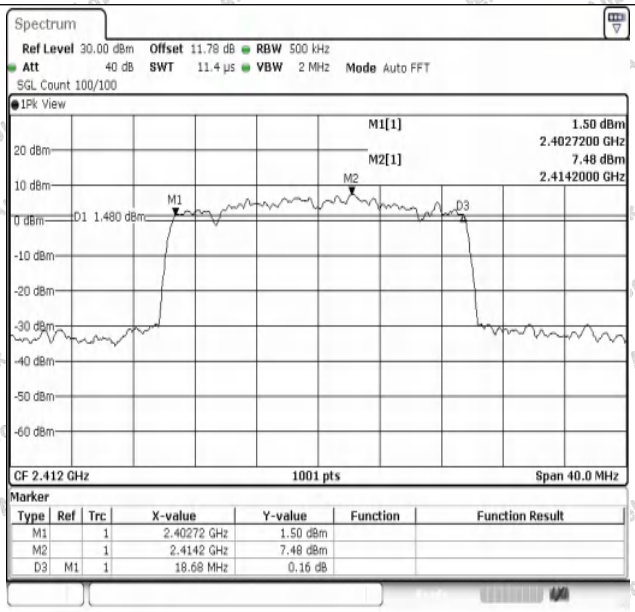
11N40SISO-Ant1-2422-PASS



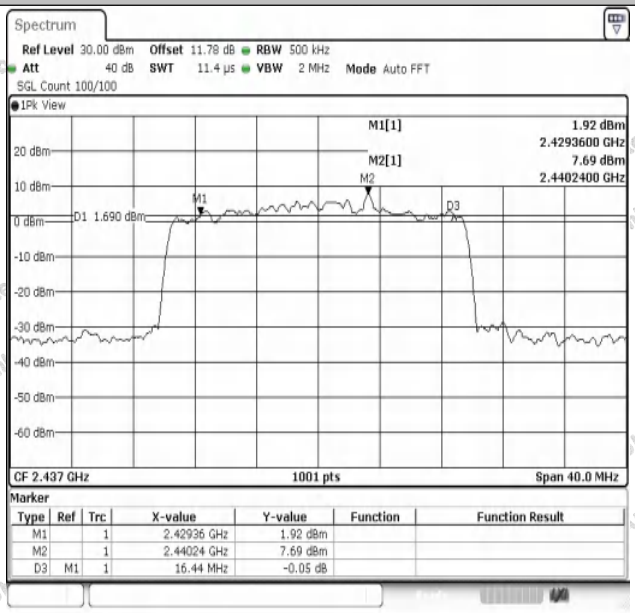
11N40SISO-Ant1-2437-PASS



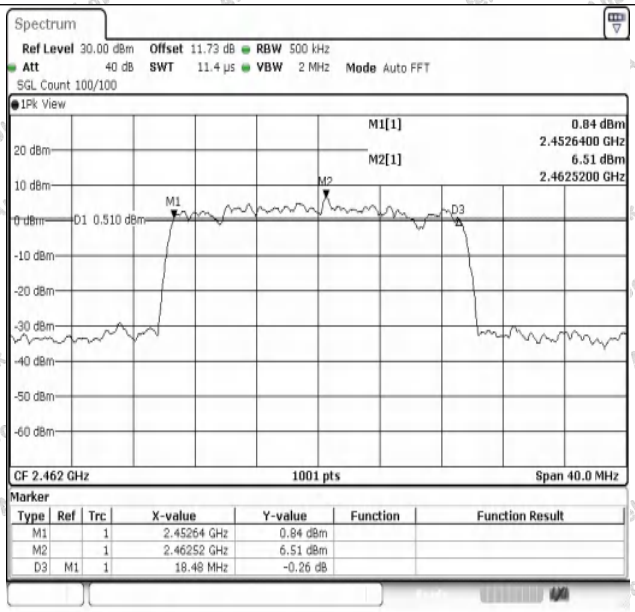
11N40SISO-Ant1-2452-PASS



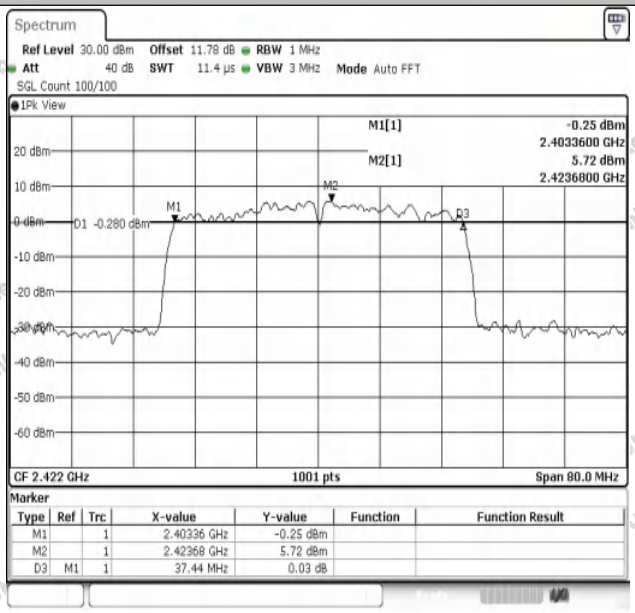
11AX20SISO-Ant1-2412-PASS



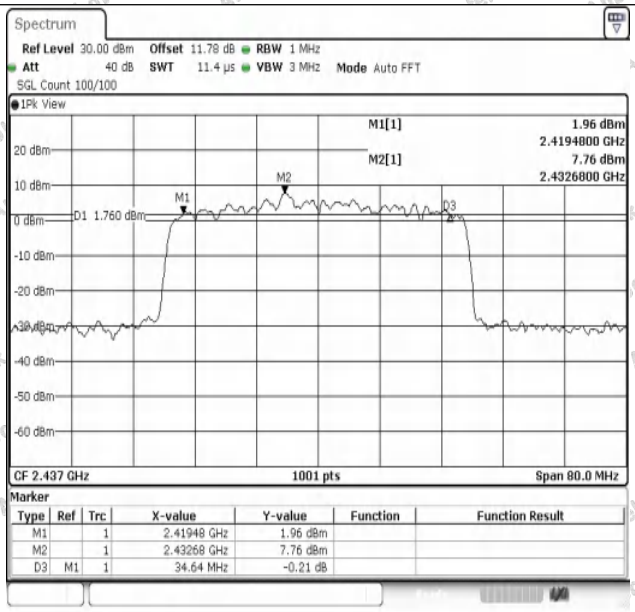
11AX20SISO-Ant1-2437-PASS



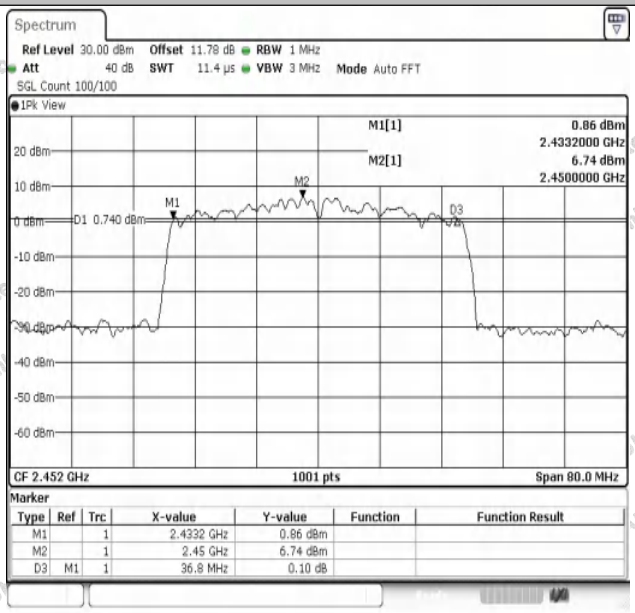
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



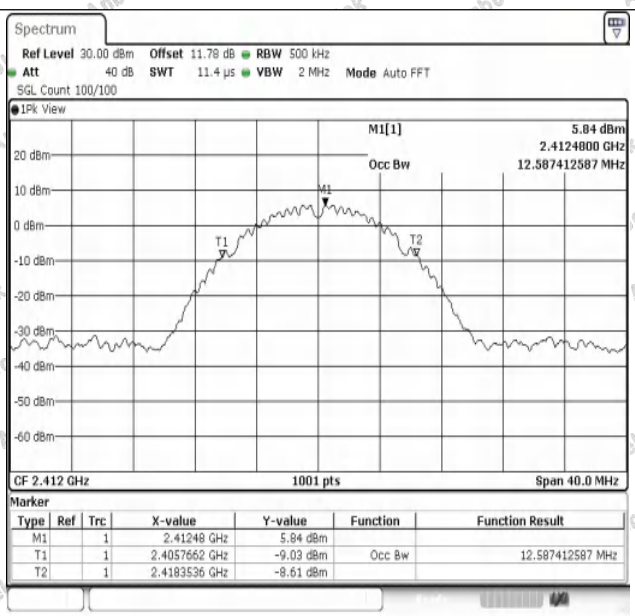
11AX40SISO-Ant1-2452-PASS

Appendix B: Occupied Channel Bandwidth

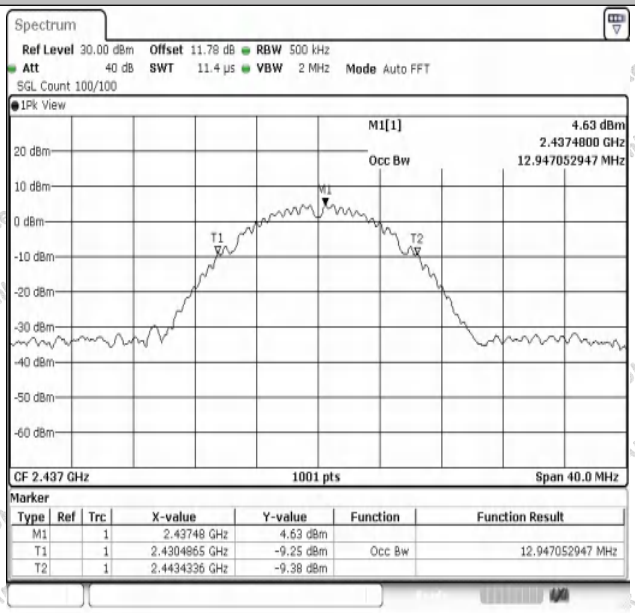
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.587	2405.7662	2418.3536	---	---
11B	Ant1	2437	12.947	2430.4865	2443.4336	---	---
11B	Ant1	2462	12.867	2455.4466	2468.3137	---	---
11G	Ant1	2412	16.503	2403.6484	2420.1518	---	---
11G	Ant1	2437	16.983	2428.3686	2445.3516	---	---
11G	Ant1	2462	16.783	2453.5285	2470.3117	---	---
11N20SISO	Ant1	2412	17.582	2403.2488	2420.8312	---	---
11N20SISO	Ant1	2437	17.742	2428.0889	2445.8312	---	---
11N20SISO	Ant1	2462	17.982	2453.1289	2471.1109	---	---
11N40SISO	Ant1	2422	35.964	2404.0180	2439.9820	---	---
11N40SISO	Ant1	2437	36.284	2418.7782	2455.0619	---	---
11N40SISO	Ant1	2452	36.204	2433.8581	2470.0619	---	---
11AX20SISO	Ant1	2412	18.861	2402.5694	2421.4306	---	---
11AX20SISO	Ant1	2437	18.861	2427.5295	2446.3906	---	---
11AX20SISO	Ant1	2462	18.821	2452.5295	2471.3506	---	---
11AX40SISO	Ant1	2422	37.642	2403.1389	2440.7812	---	---
11AX40SISO	Ant1	2437	37.802	2417.9790	2455.7812	---	---
11AX40SISO	Ant1	2452	37.483	2433.2987	2470.7812	---	---

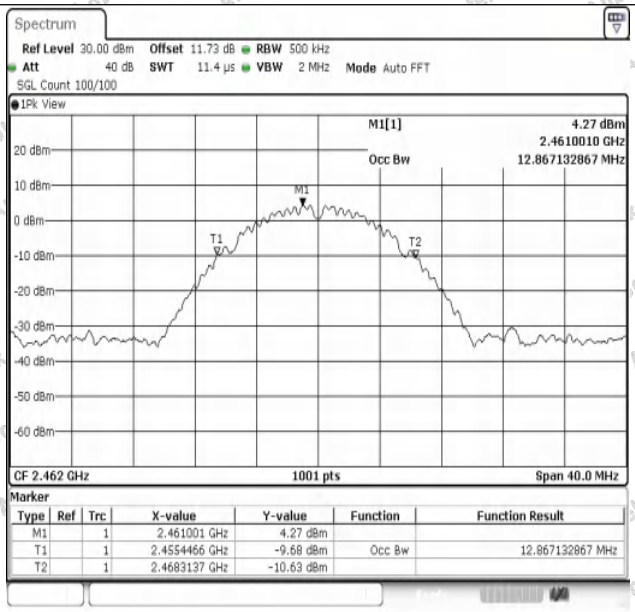
Test Graphs



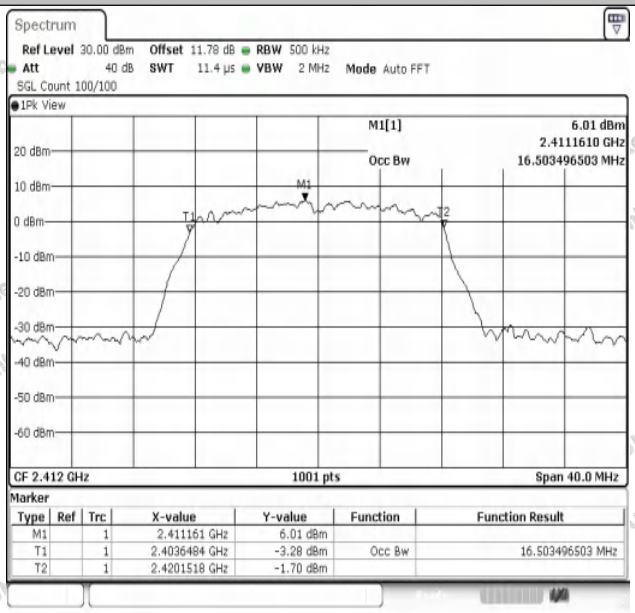
11B-Ant1-2412



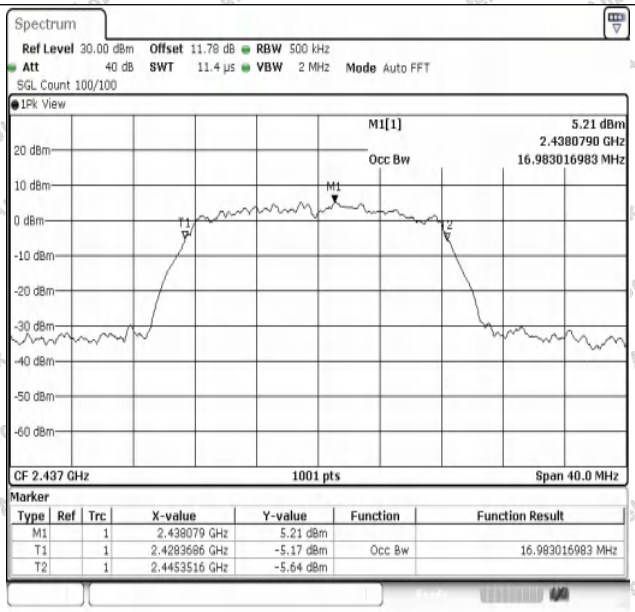
11B-Ant1-2437



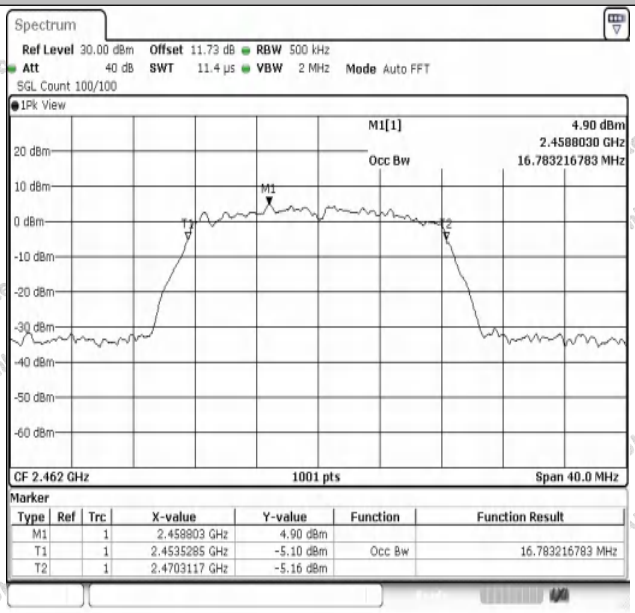
11B-Ant1-2462



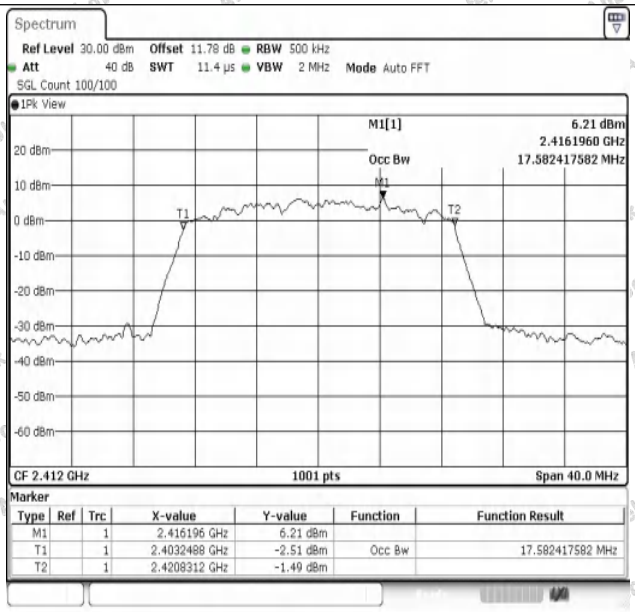
11G-Ant1-2412



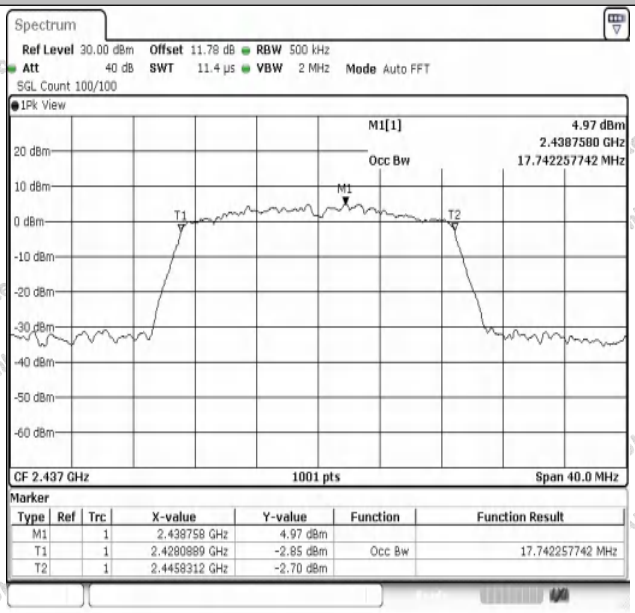
11G-Ant1-2437



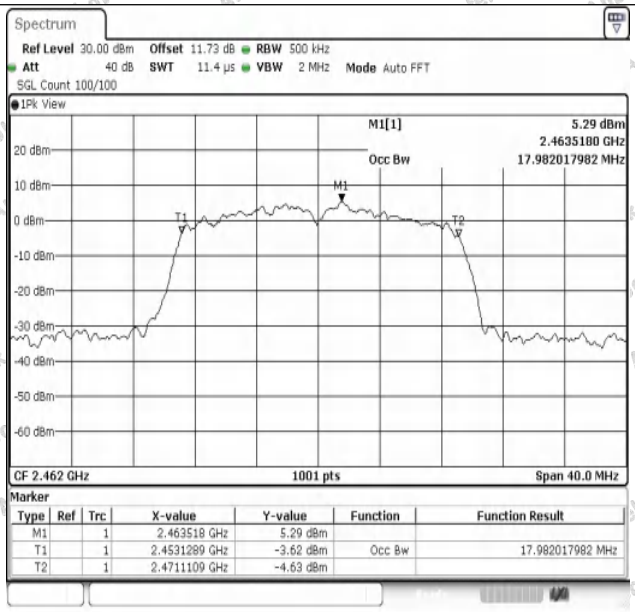
11G-Ant1-2462



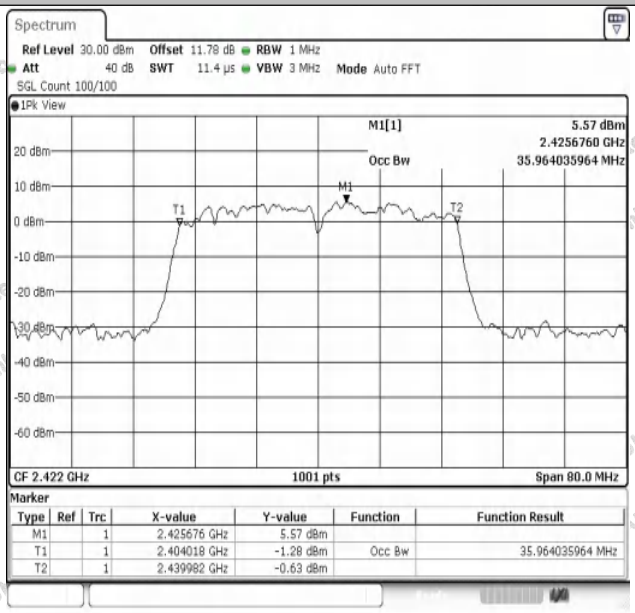
11N20SISO-Ant1-2412



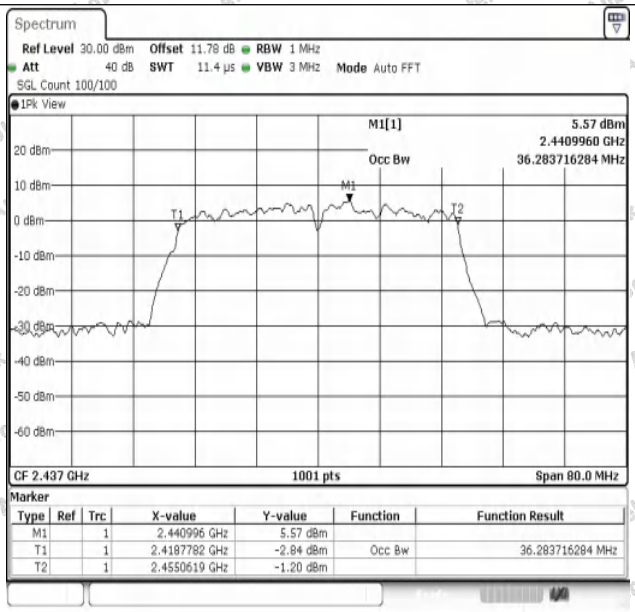
11N20SISO-Ant1-2437



11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



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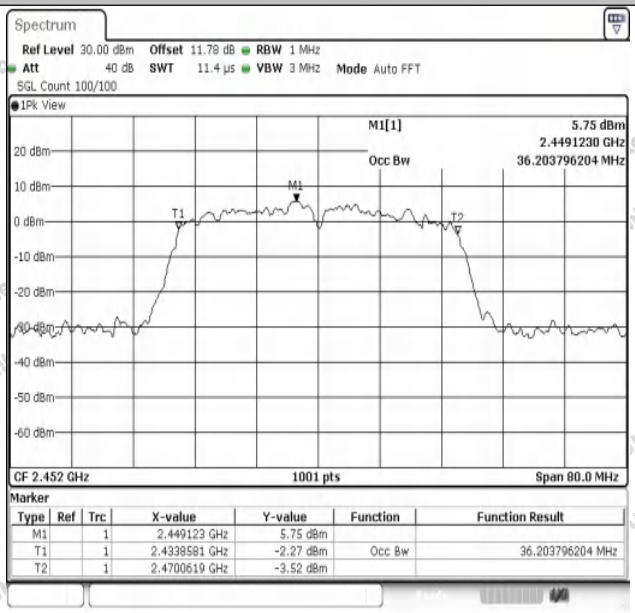
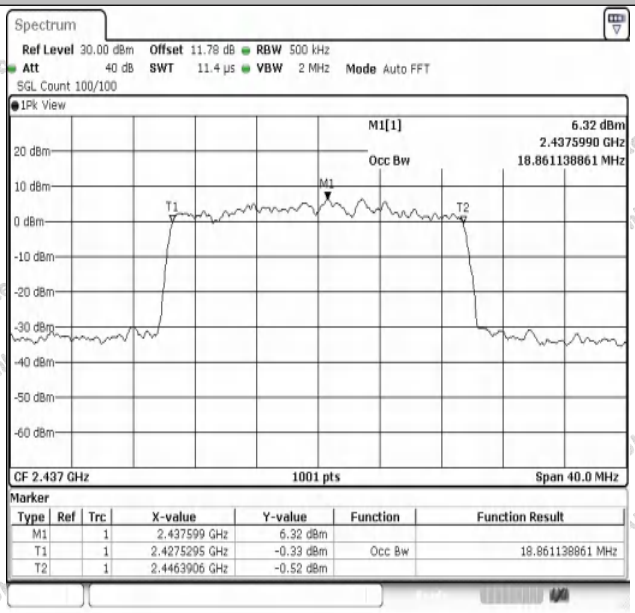


11N40SISO-Ant1-2452

11AX20SISO-Ant1-2412



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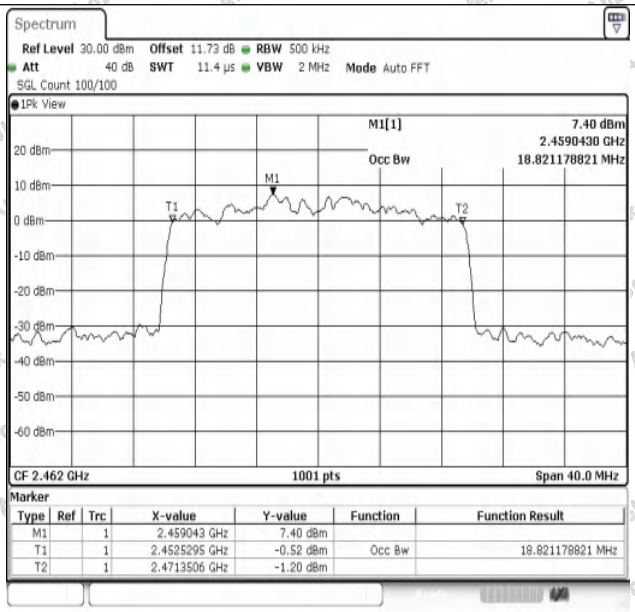
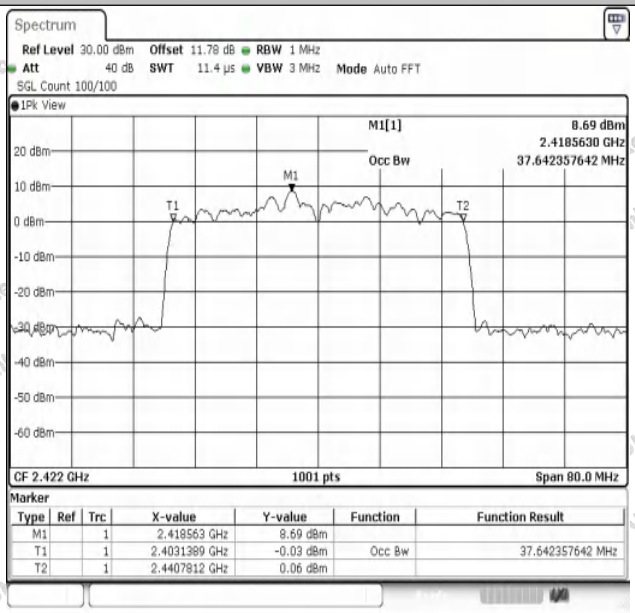


11AX20SISO-Ant1-2462



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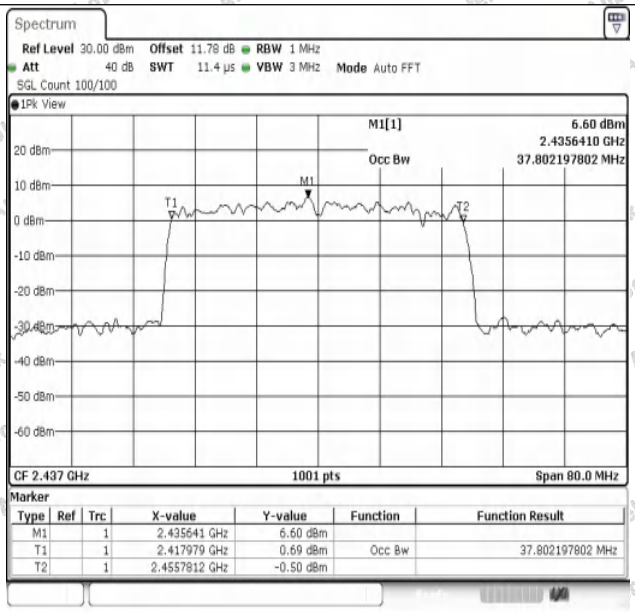
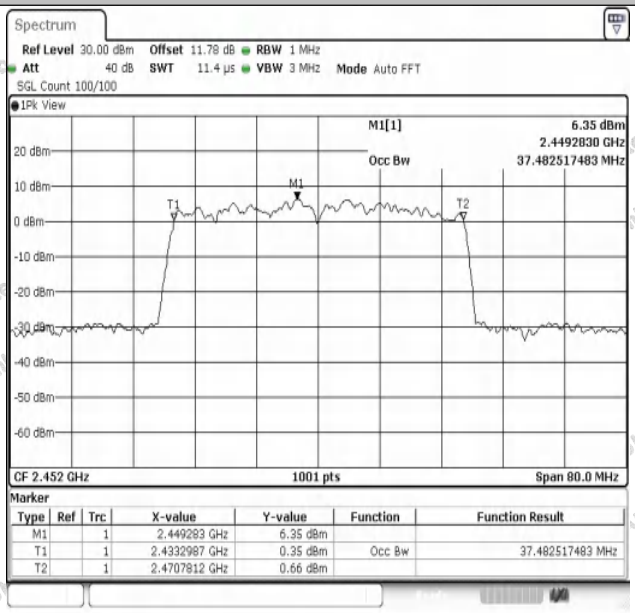


11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

Appendix C: Maximum conducted output power

Test Result Average

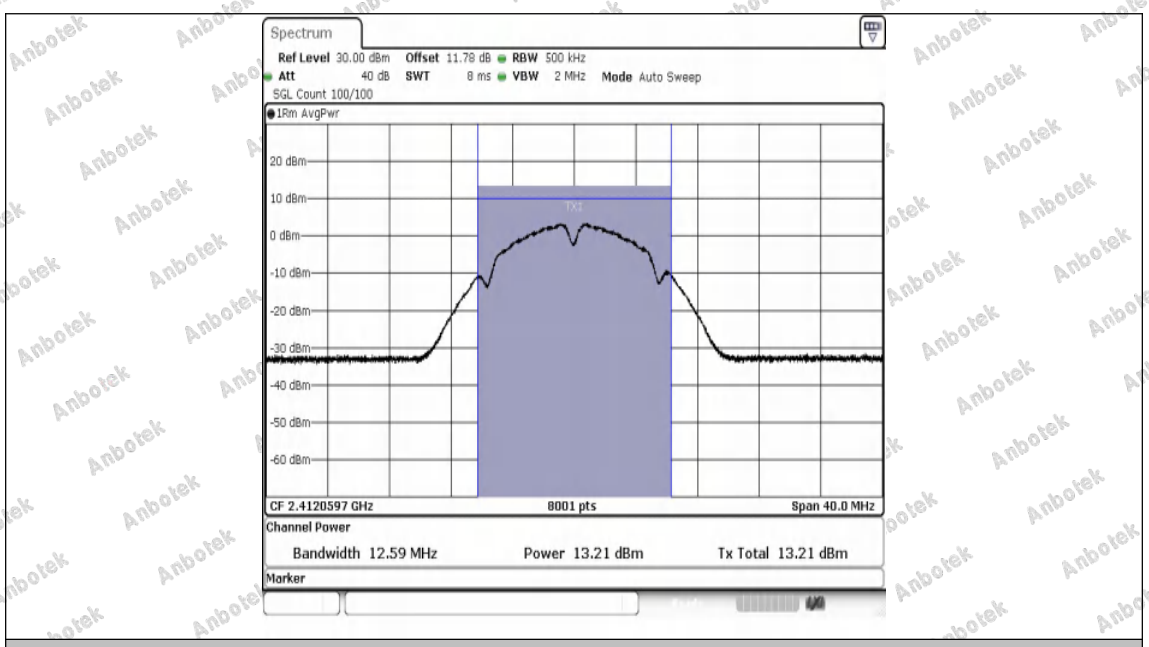
Test Mode	Antenna	Frequency[MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	NA	13.21	94.16	0.26	13.47	≤30.00	0.00	13.47	≤36.00	PASS
11B	Ant1	2437	NA	12.19	93.85	0.28	12.47	≤30.00	0.00	12.47	≤36.00	PASS
11B	Ant1	2462	NA	11.66	94.17	0.26	11.92	≤30.00	0.00	11.92	≤36.00	PASS
11G	Ant1	2412	NA	11.97	72.02	1.43	13.40	≤30.00	0.00	13.40	≤36.00	PASS
11G	Ant1	2437	NA	11.06	72.02	1.43	12.49	≤30.00	0.00	12.49	≤36.00	PASS
11G	Ant1	2462	NA	10.54	71.28	1.47	12.01	≤30.00	0.00	12.01	≤36.00	PASS
11N20SISO	Ant1	2412	NA	11.75	69.89	1.56	13.31	≤30.00	0.00	13.31	≤36.00	PASS
11N20SISO	Ant1	2437	NA	10.82	70.65	1.51	12.33	≤30.00	0.00	12.33	≤36.00	PASS
11N20SISO	Ant1	2462	NA	10.30	70.27	1.53	11.83	≤30.00	0.00	11.83	≤36.00	PASS
11N40SISO	Ant1	2422	NA	9.93	54.62	2.63	12.56	≤30.00	0.00	12.56	≤36.00	PASS
11N40SISO	Ant1	2437	NA	9.95	54.62	2.63	12.58	≤30.00	0.00	12.58	≤36.00	PASS
11N40SISO	Ant1	2452	NA	9.69	54.62	2.63	12.32	≤30.00	0.00	12.32	≤36.00	PASS
11AX20SISO	Ant1	2412	NA	11.66	65.16	1.86	13.52	≤30.00	0.00	13.52	≤36.00	PASS
11AX20SISO	Ant1	2437	NA	10.64	65.38	1.85	12.49	≤30.00	0.00	12.49	≤36.00	PASS
11AX20SISO	Ant1	2462	NA	10.09	65.16	1.86	11.95	≤30.00	0.00	11.95	≤36.00	PASS
11AX40SISO	Ant1	2422	NA	9.76	50.00	3.01	12.77	≤30.00	0.00	12.77	≤36.00	PASS
11AX40SISO	Ant1	2437	NA	9.72	49.53	3.05	12.77	≤30.00	0.00	12.77	≤36.00	PASS

11AX40 SISO	Ant1	2452	NA	9.51	50.47	2.97	12.48	≤30.00	0.00	12.48	≤36.00	PASS

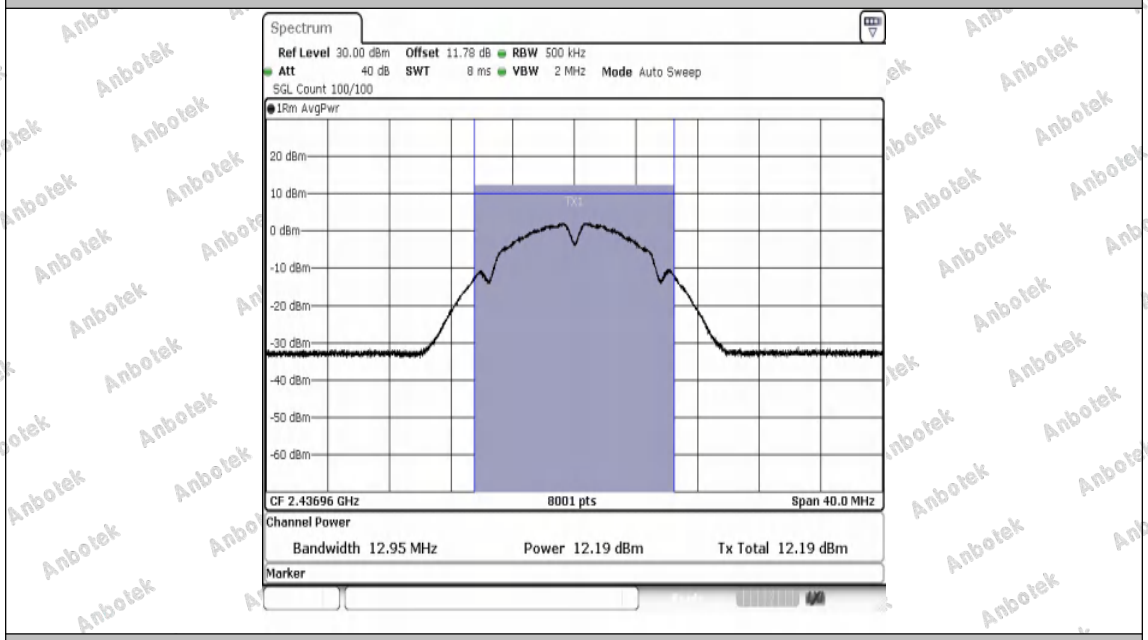
Note:

1. The cable loss are compensated in the graph.

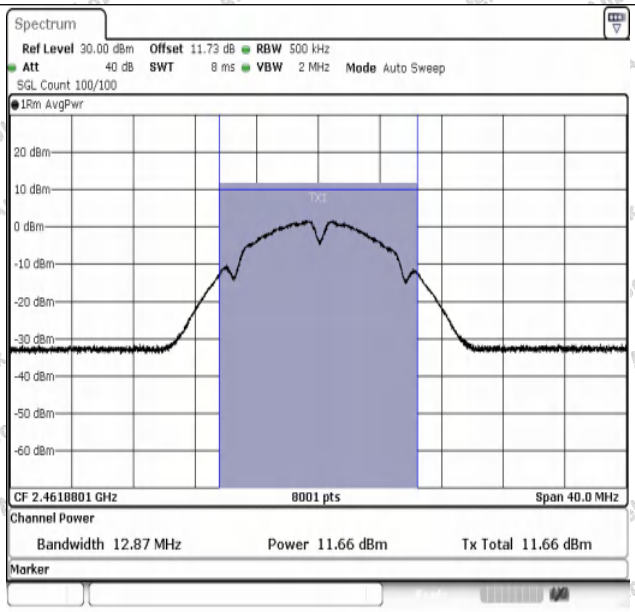
Test Graphs Average



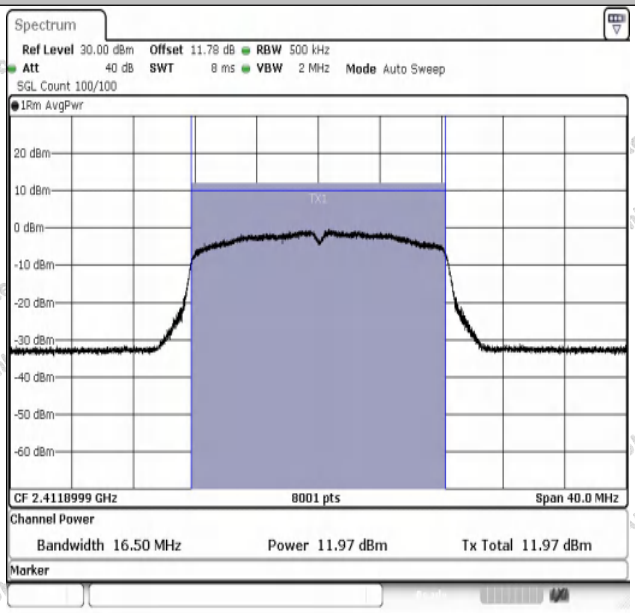
11B-Ant1-2412-PASS



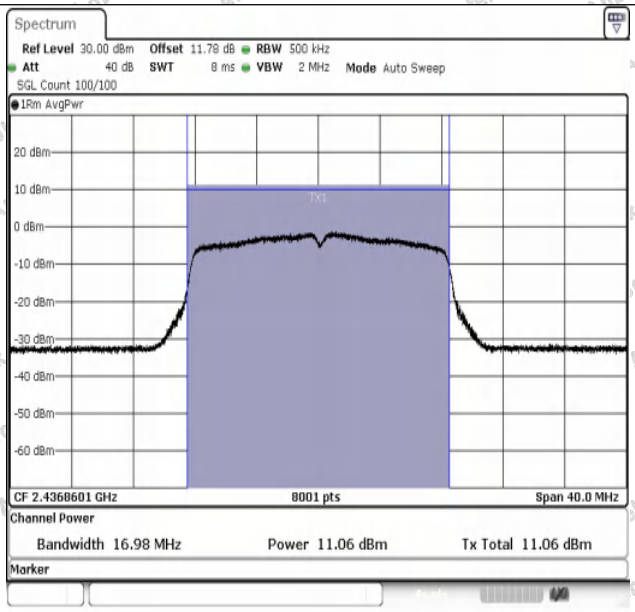
11B-Ant1-2437-PASS



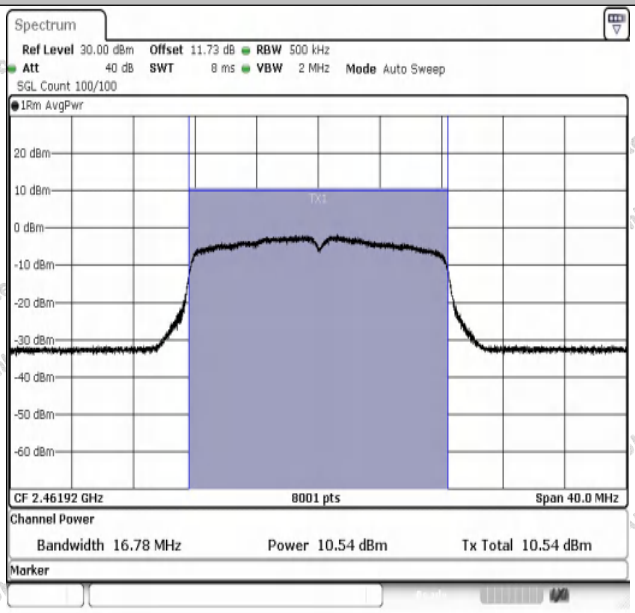
11B-Ant1-2462-PASS



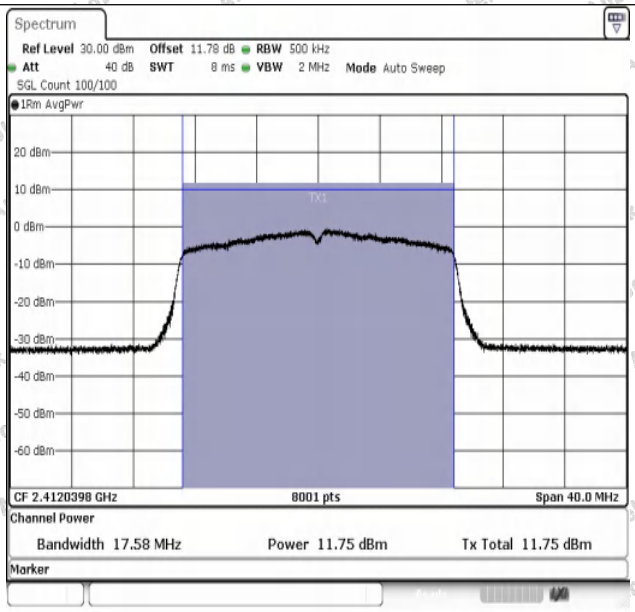
11G-Ant1-2412-PASS



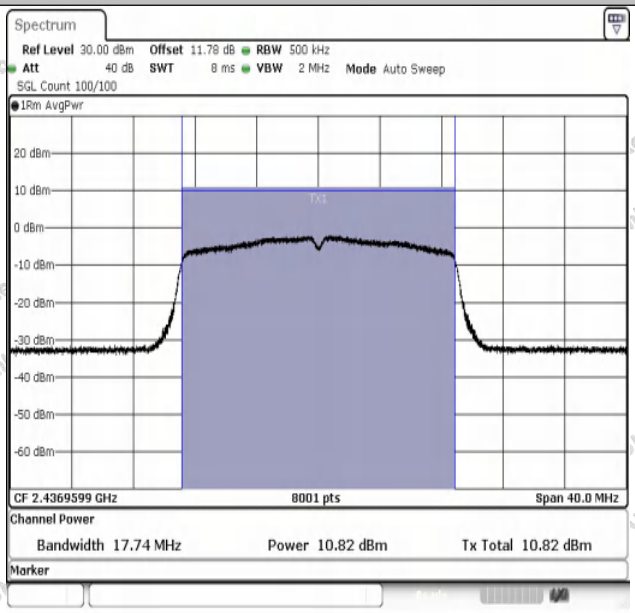
11G-Ant1-2437-PASS



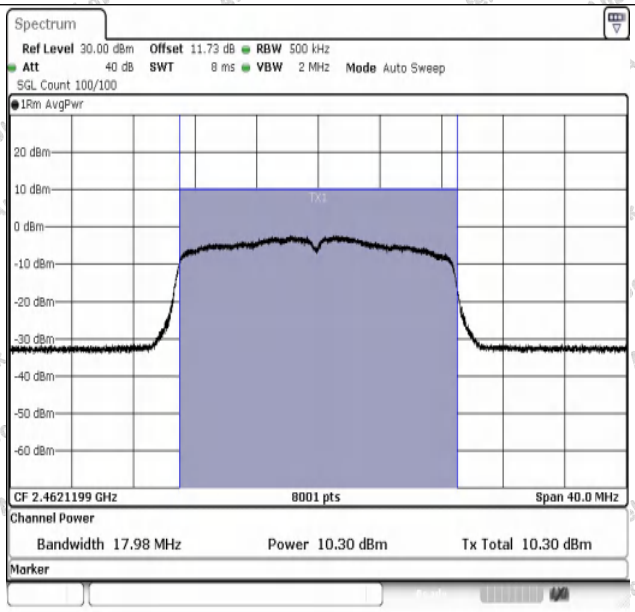
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



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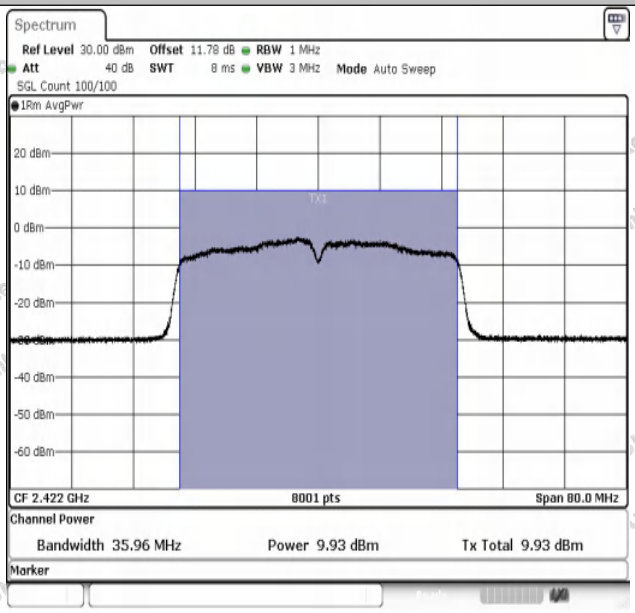
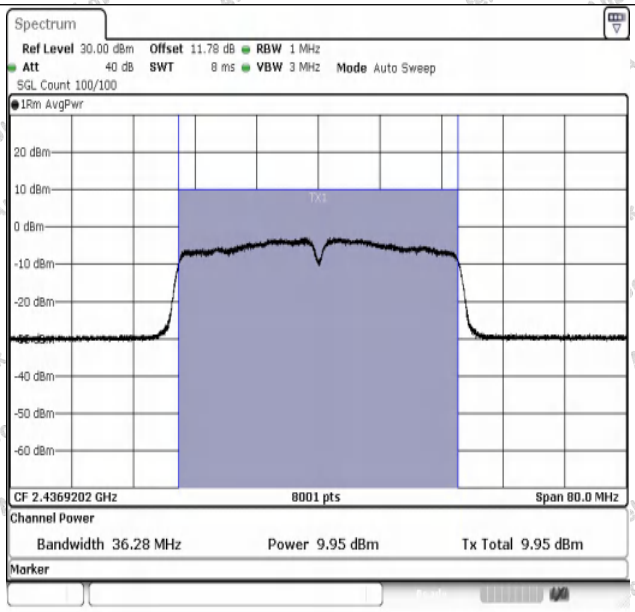
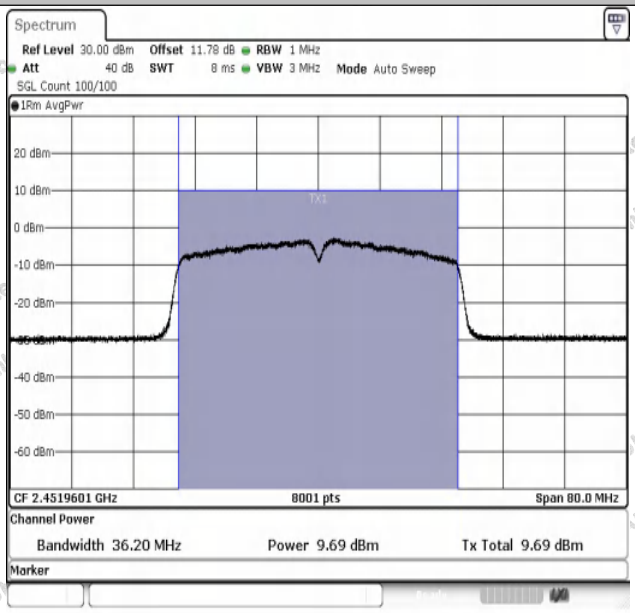


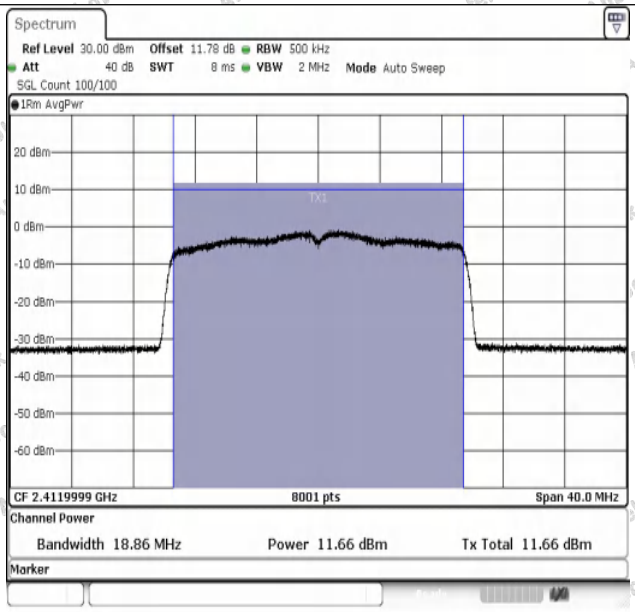
11N40SISO-Ant1-2422-PASS



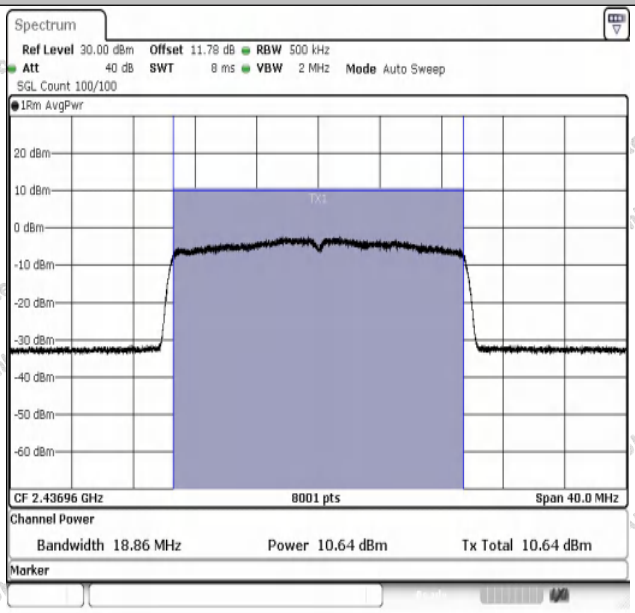
11N40SISO-Ant1-2437-PASS



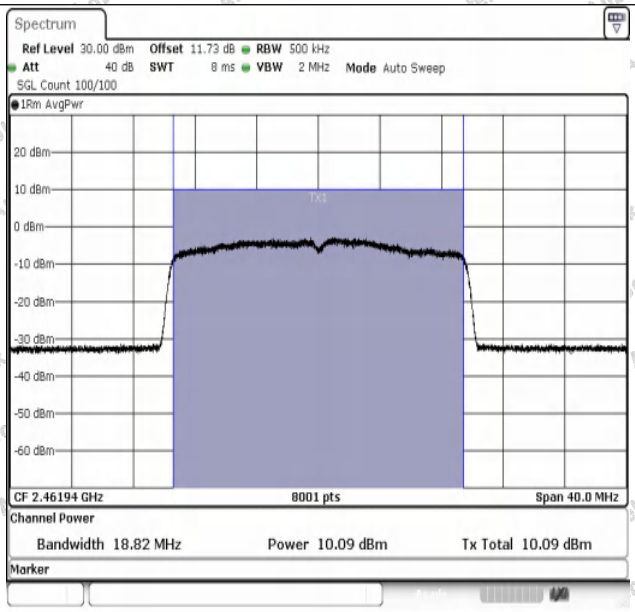
11N40SISO-Ant1-2452-PASS



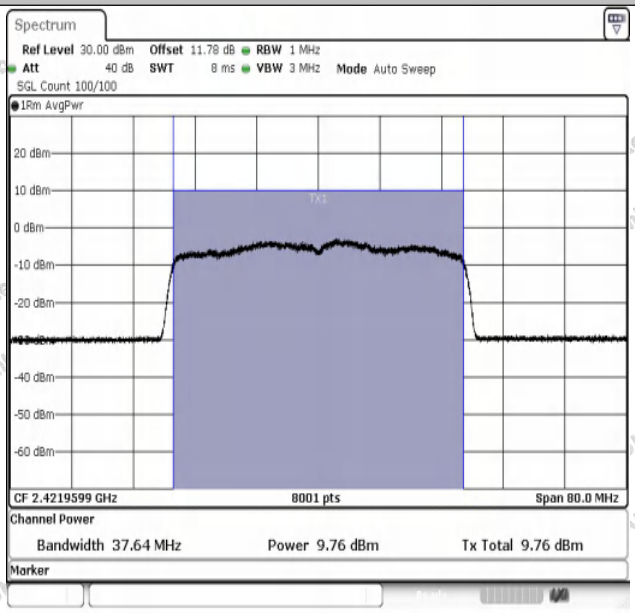
11AX20SISO-Ant1-2412-PASS



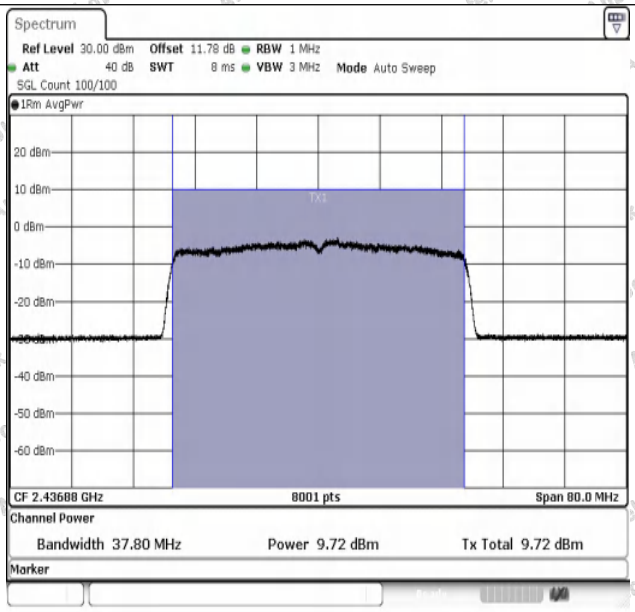
11AX20SISO-Ant1-2437-PASS



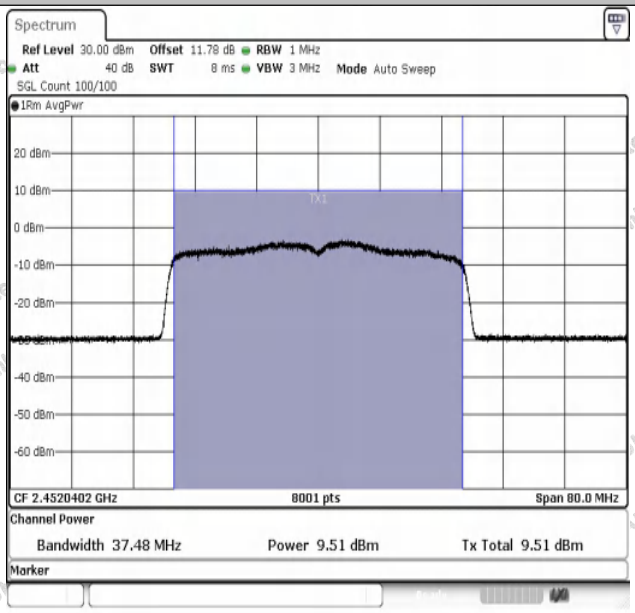
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



11AX40SISO-Ant1-2452-PASS

Appendix D: Maximum power spectral density

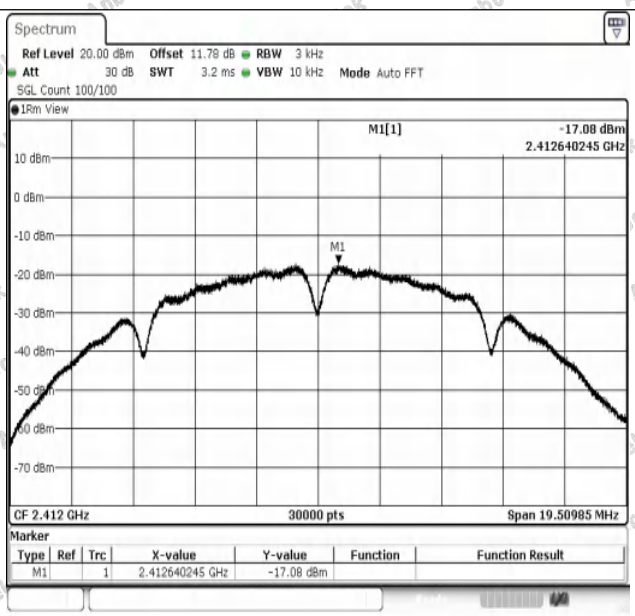
Test Result

TestMode	Antenna	Frequency[MHz]	Reading Result[dBm/3kHz]	DC Factor [dB]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.08	0.26	-16.82	≤8.00	PASS
11B	Ant1	2437	-18.67	0.28	-18.39	≤8.00	PASS
11B	Ant1	2462	-19.07	0.26	-18.81	≤8.00	PASS
11G	Ant1	2412	-20.74	1.43	-19.31	≤8.00	PASS
11G	Ant1	2437	-21.54	1.43	-20.11	≤8.00	PASS
11G	Ant1	2462	-22.36	1.47	-20.89	≤8.00	PASS
11N20SISO	Ant1	2412	-21.46	1.56	-19.90	≤8.00	PASS
11N20SISO	Ant1	2437	-22.70	1.51	-21.19	≤8.00	PASS
11N20SISO	Ant1	2462	-22.33	1.53	-20.80	≤8.00	PASS
11N40SISO	Ant1	2422	-24.19	2.63	-21.56	≤8.00	PASS
11N40SISO	Ant1	2437	-23.71	2.63	-21.08	≤8.00	PASS
11N40SISO	Ant1	2452	-24.72	2.63	-22.09	≤8.00	PASS
11AX20SISO	Ant1	2412	-20.92	1.86	-19.06	≤8.00	PASS
11AX20SISO	Ant1	2437	-21.88	1.85	-20.03	≤8.00	PASS
11AX20SISO	Ant1	2462	-21.03	1.86	-19.17	≤8.00	PASS
11AX40SISO	Ant1	2422	-25.08	3.01	-22.07	≤8.00	PASS
11AX40SISO	Ant1	2437	-25.11	3.05	-22.06	≤8.00	PASS
11AX40SISO	Ant1	2452	-25.74	2.97	-22.77	≤8.00	PASS

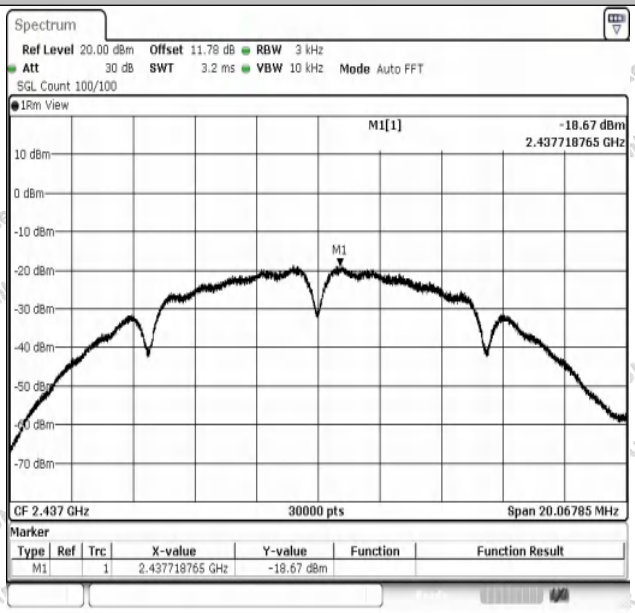
Note：

1. The cable loss are compensated in the graph.

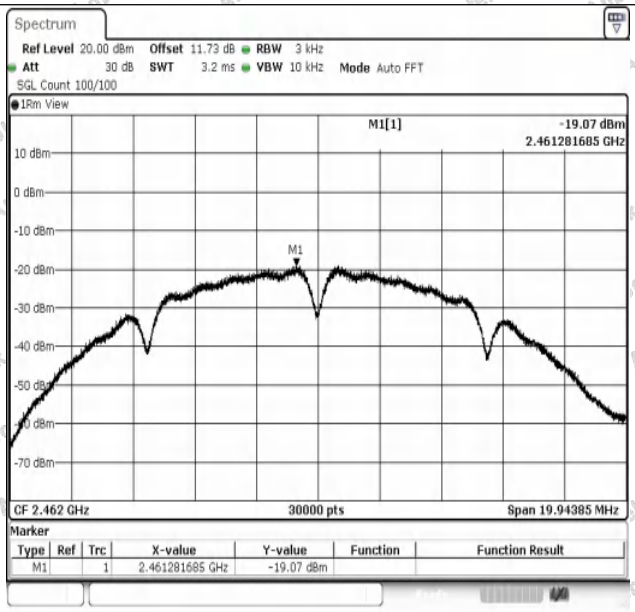
Test Graphs



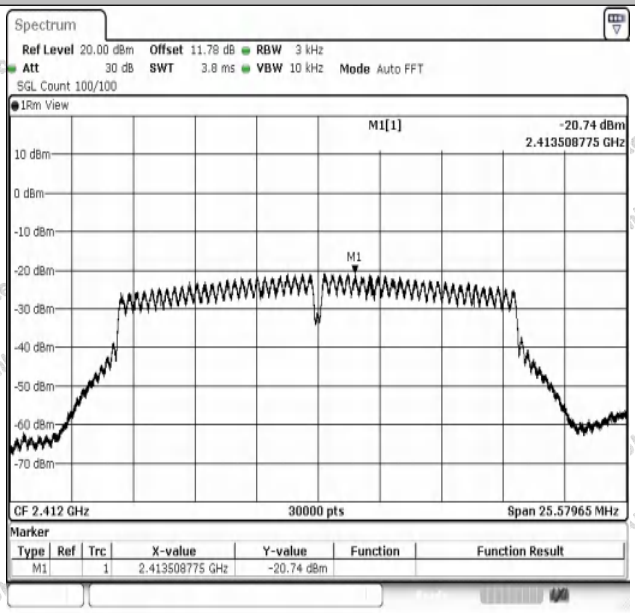
11B-Ant1-2412-PASS



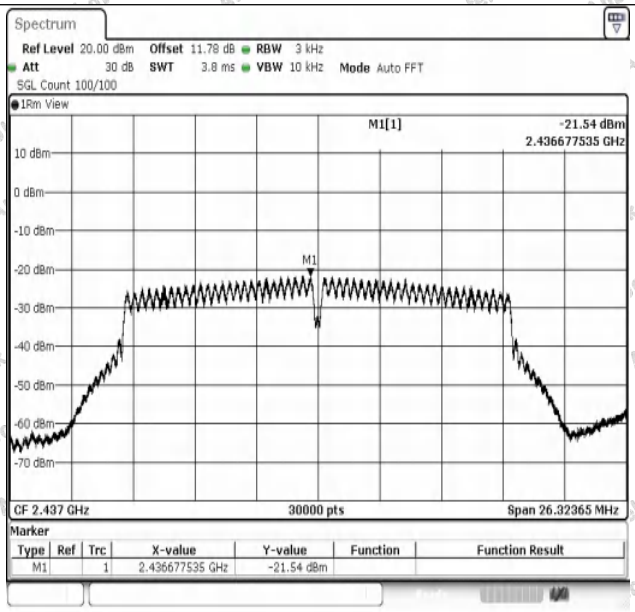
11B-Ant1-2437-PASS



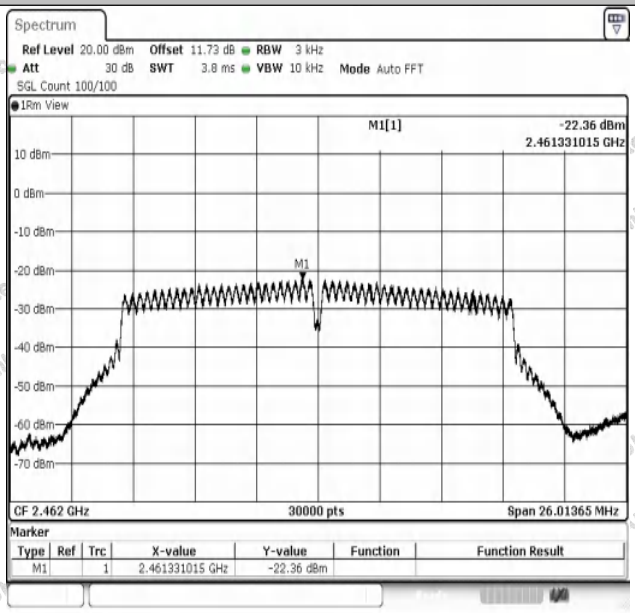
11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



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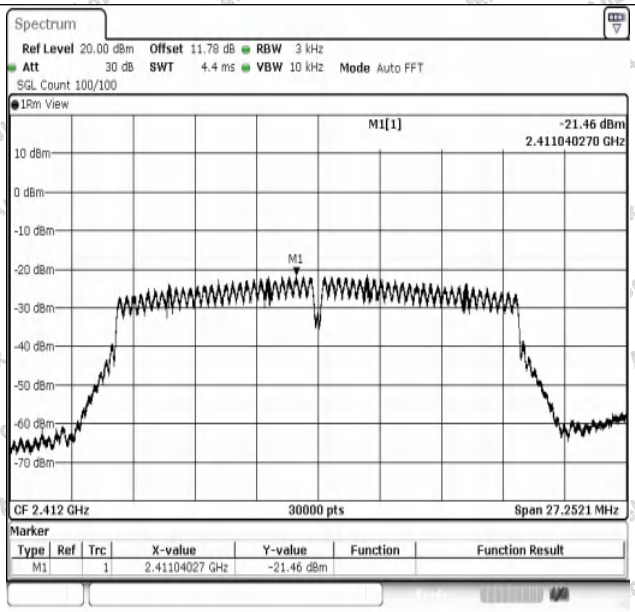
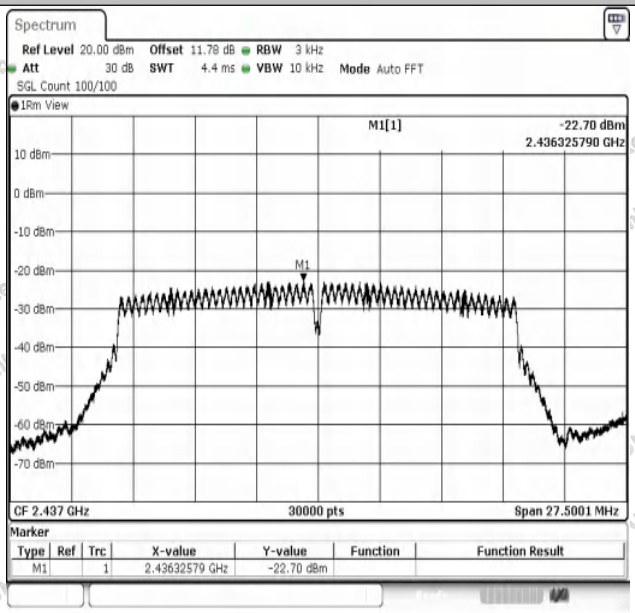


11N20SISO-Ant1-2412-PASS



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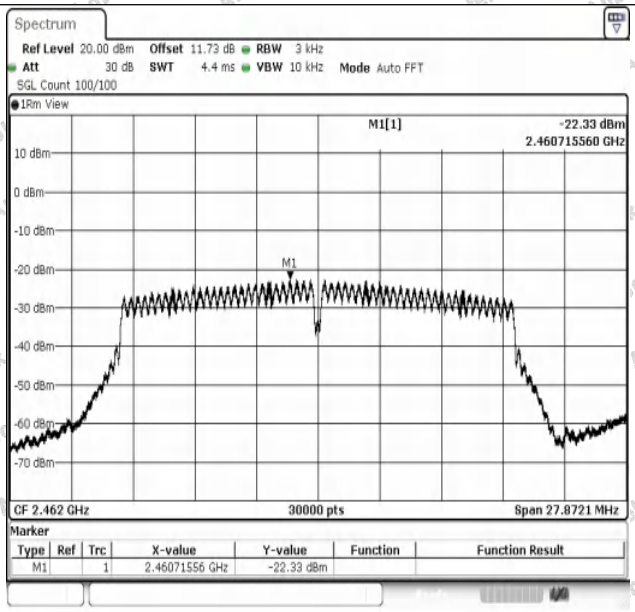

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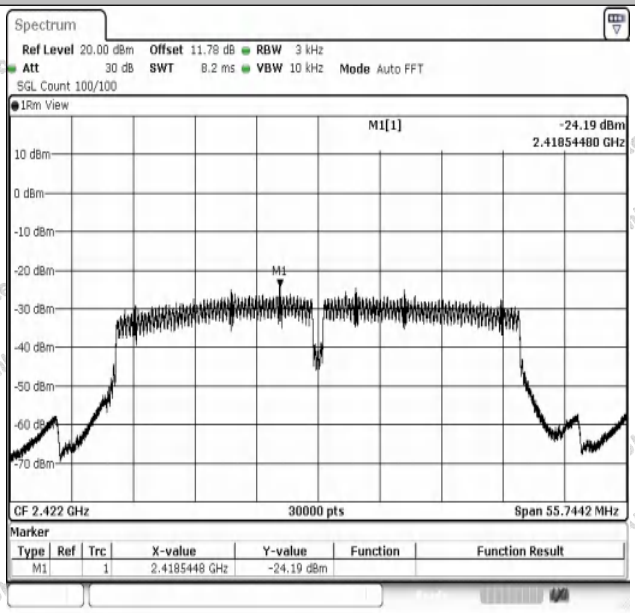
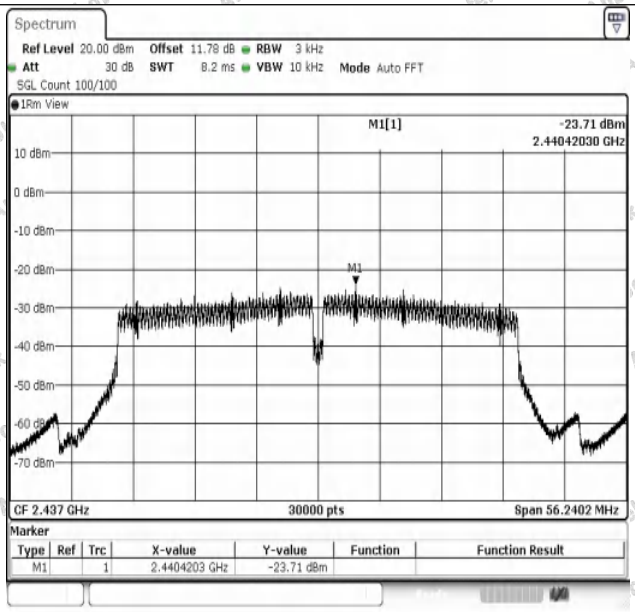


11N40SISO-Ant1-2422-PASS



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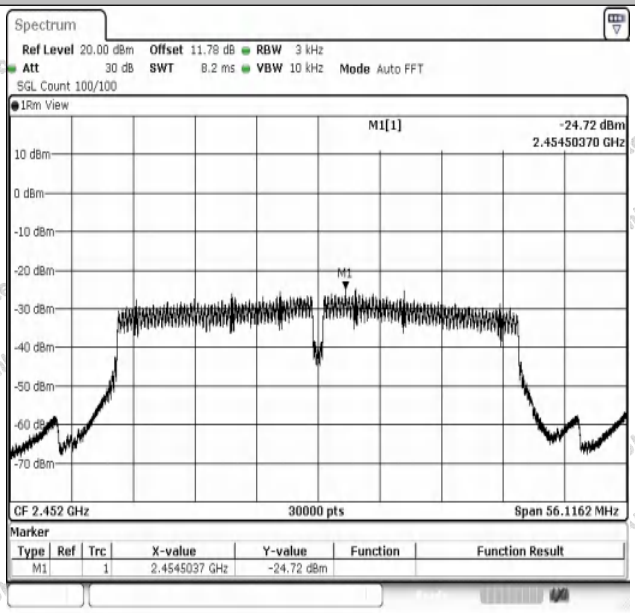
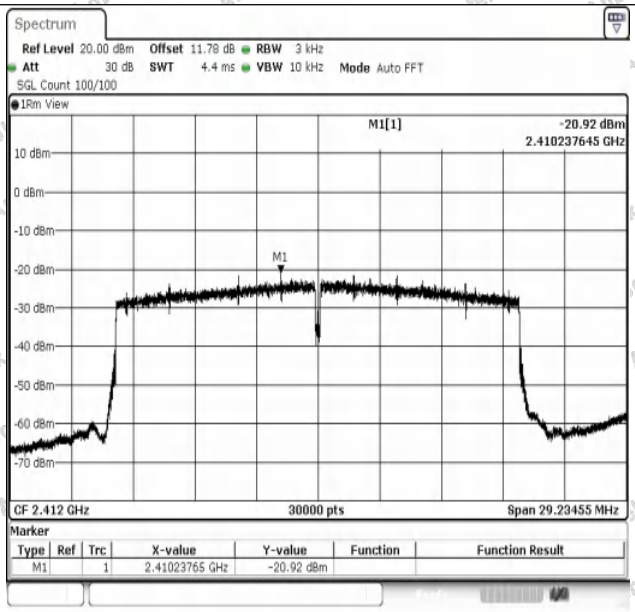


11N40SISO-Ant1-2452-PASS



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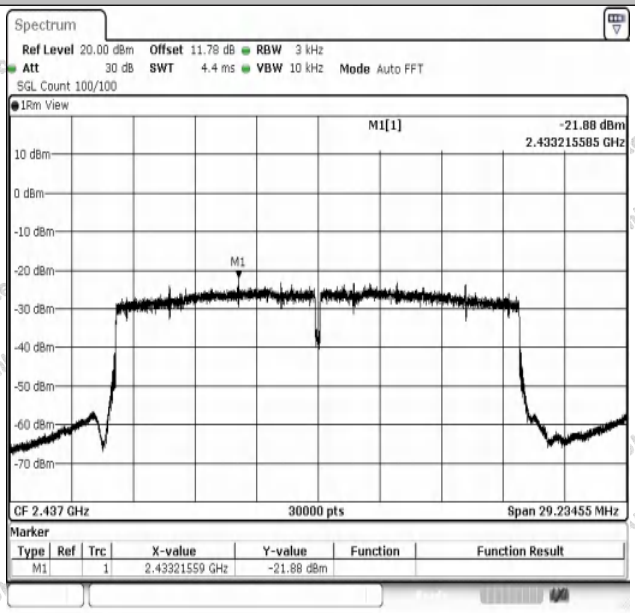
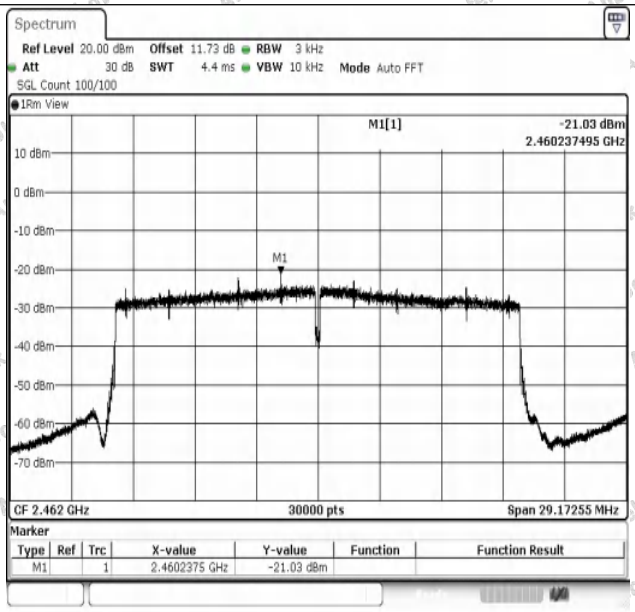
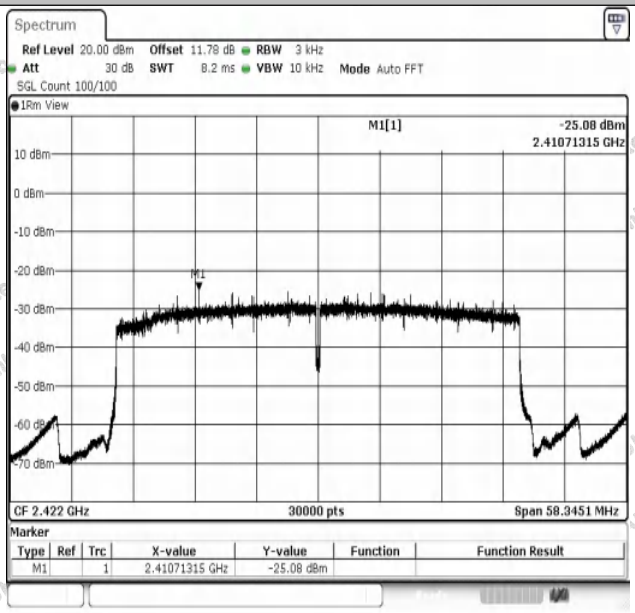


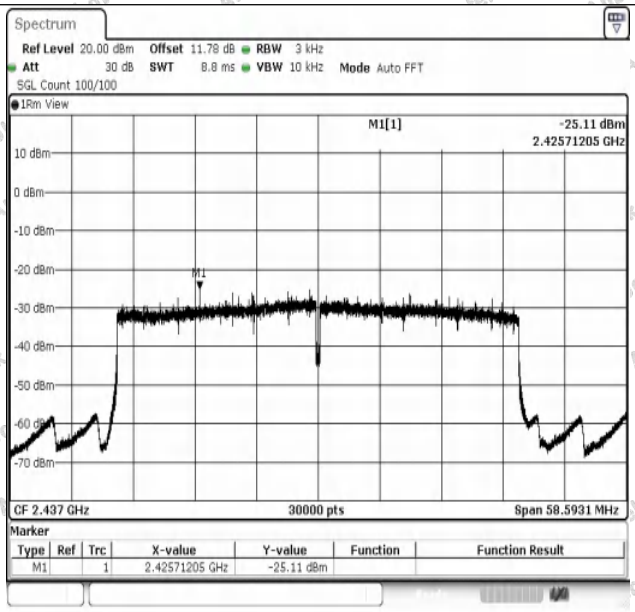
11AX20SISO-Ant1-2437-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



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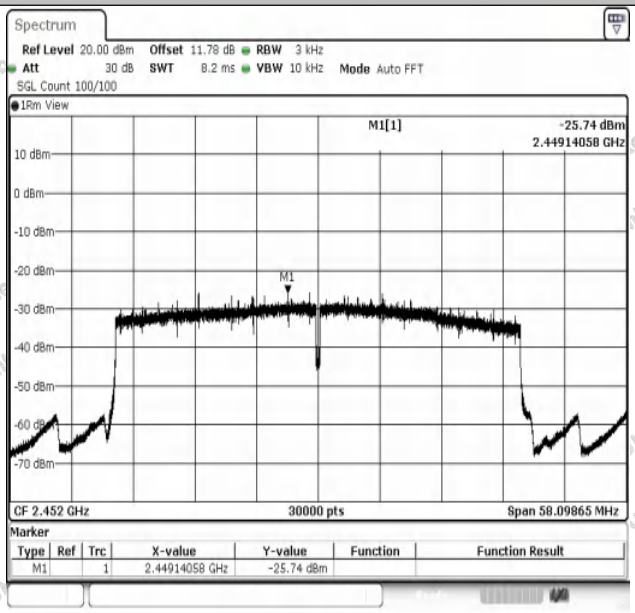


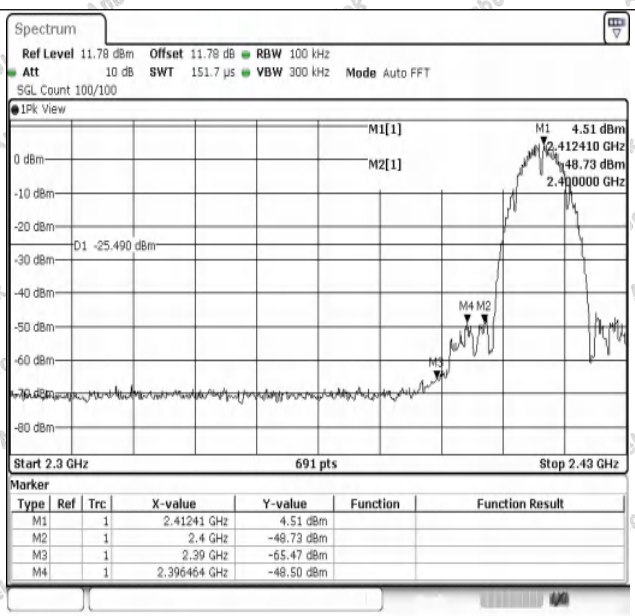
11AX40SISO-Ant1-2452-PASS

Appendix E: Band edge measurements

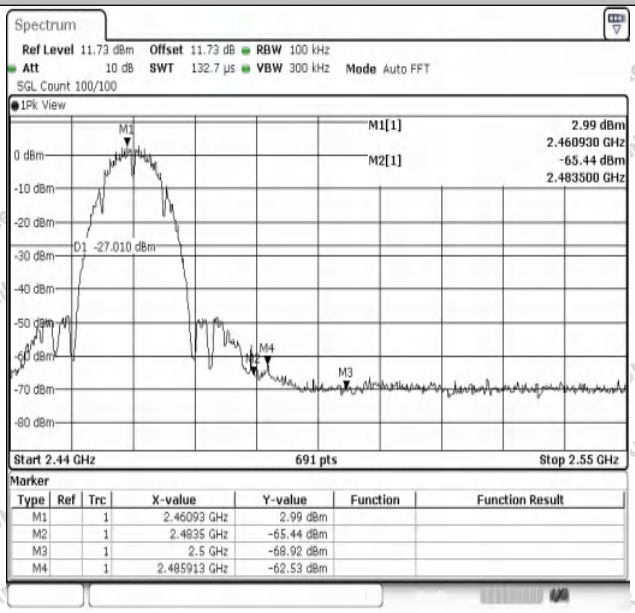
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.51	-48.5	≤-25.49	PASS
11B	Ant1	High	2462	2.99	-62.53	≤-27.01	PASS
11G	Ant1	Low	2412	3.06	-33.77	≤-26.94	PASS
11G	Ant1	High	2462	-1.01	-49.38	≤-31.01	PASS
11N20SISO	Ant1	Low	2412	0.04	-37.81	≤-29.96	PASS
11N20SISO	Ant1	High	2462	-1.31	-50.07	≤-31.31	PASS
11N40SISO	Ant1	Low	2422	-4.40	-42.04	≤-34.4	PASS
11N40SISO	Ant1	High	2452	-3.66	-40.23	≤-33.66	PASS
11AX20SISO	Ant1	Low	2412	1.48	-37.76	≤-28.52	PASS
11AX20SISO	Ant1	High	2462	-1.83	-48.97	≤-31.83	PASS
11AX40SISO	Ant1	Low	2422	-3.75	-44.85	≤-33.75	PASS
11AX40SISO	Ant1	High	2452	-1.05	-45.55	≤-31.05	PASS

Test Graphs



11B-Ant1-2412-PASS



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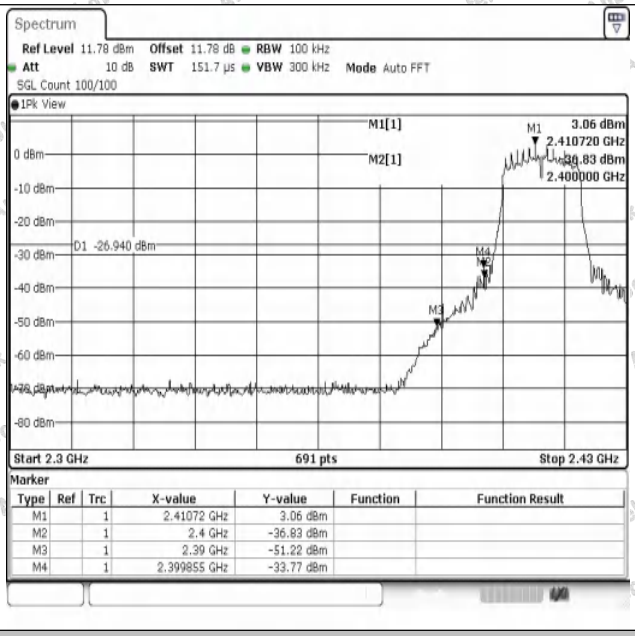
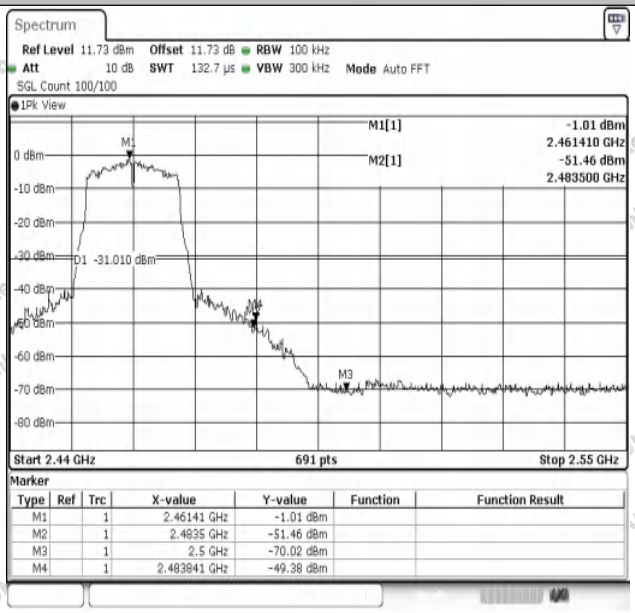
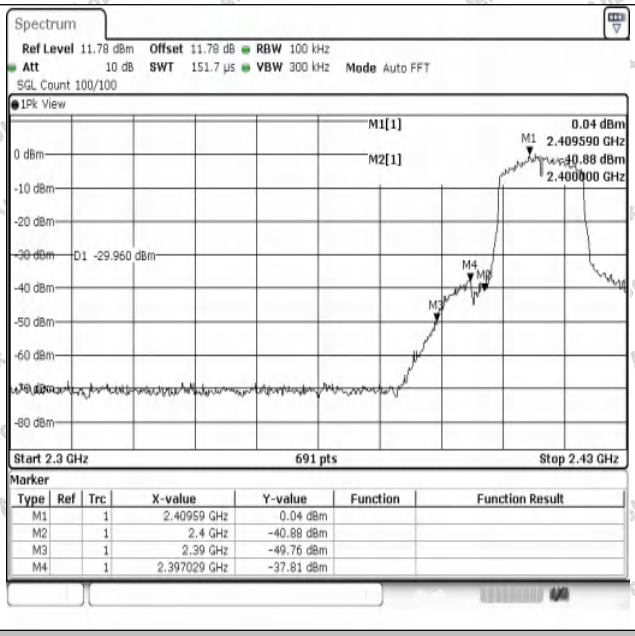


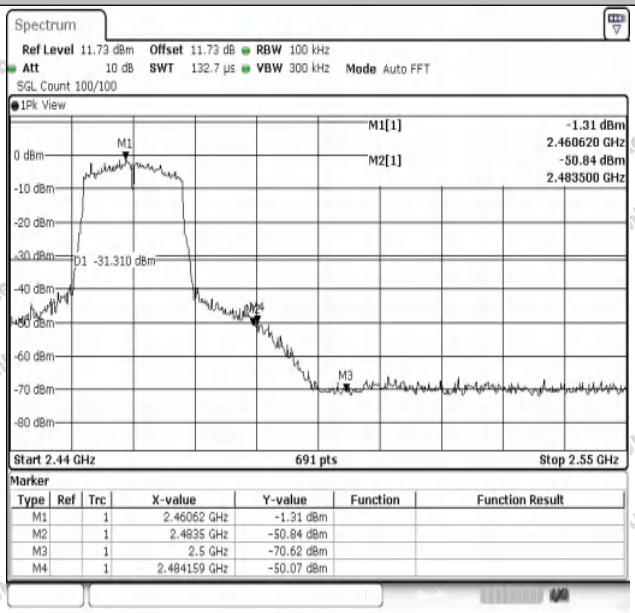
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



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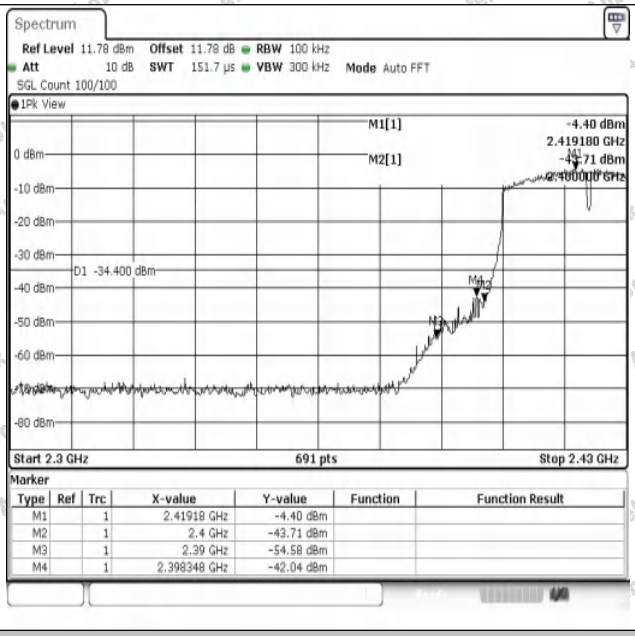
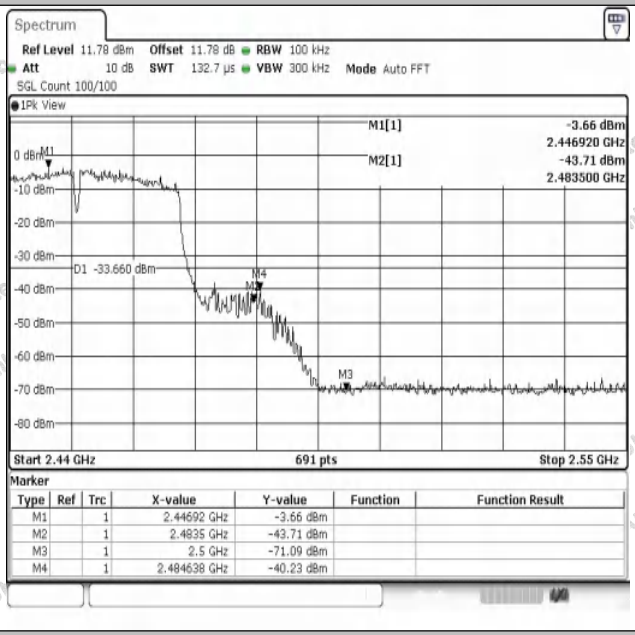


11N40SISO-Ant1-2422-PASS



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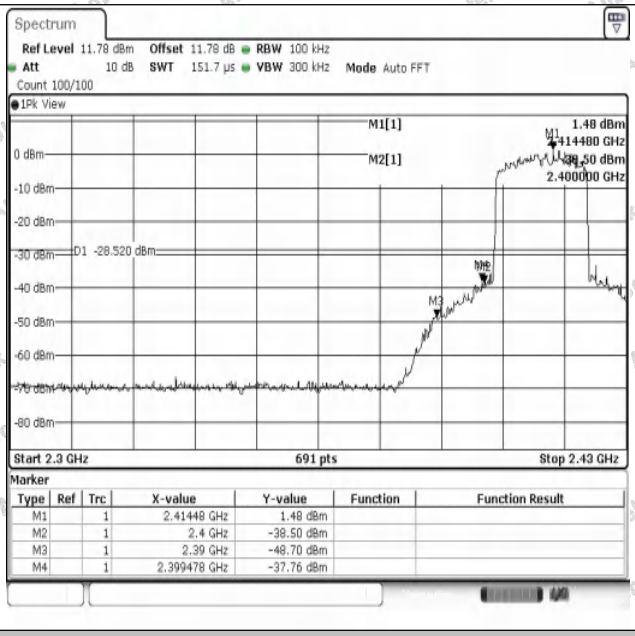

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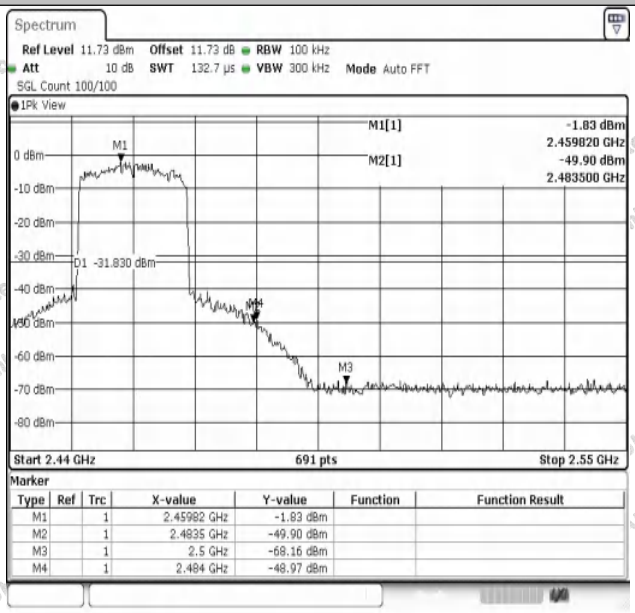
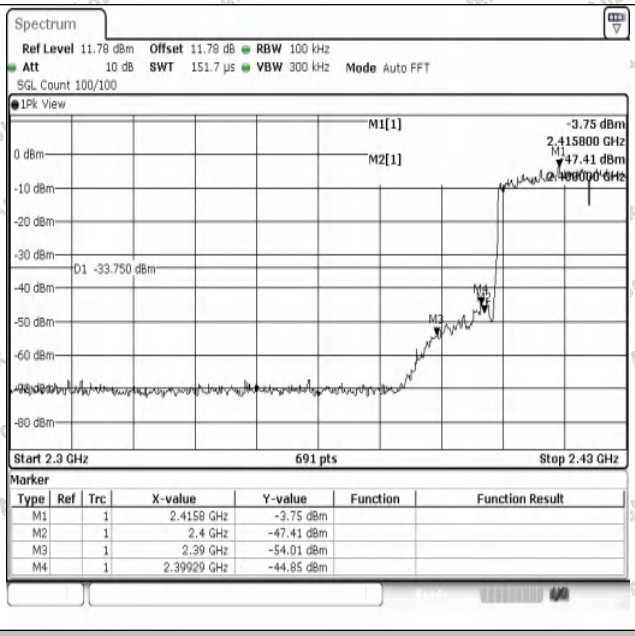
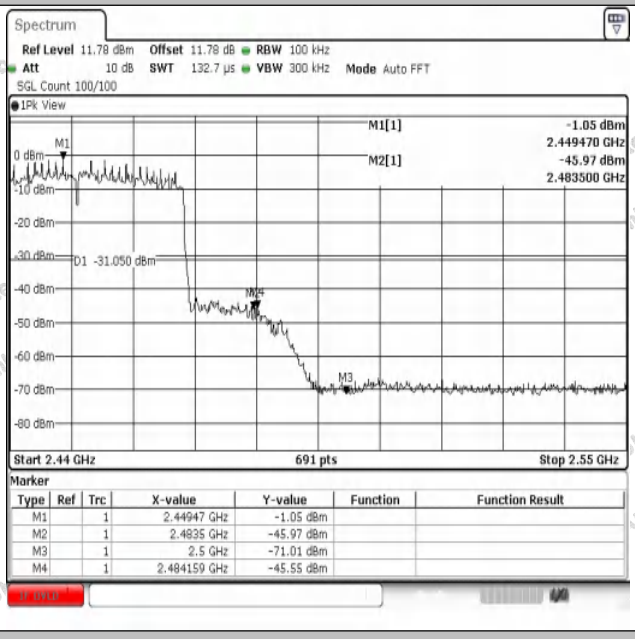


11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2452-PASS

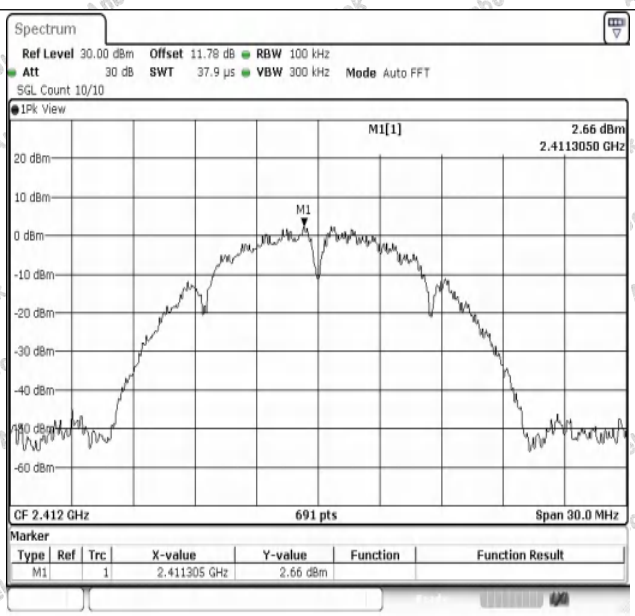
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.66	2.66	---	PASS
11B	Ant1	2412	30~1000	2.66	-50.23	≤-27.34	PASS
11B	Ant1	2412	1000~26500	2.66	-43.56	≤-27.34	PASS
11B	Ant1	2437	0~Reference	3.82	3.82	---	PASS
11B	Ant1	2437	30~1000	3.82	-57.93	≤-26.18	PASS
11B	Ant1	2437	1000~26500	3.82	-43.92	≤-26.18	PASS
11B	Ant1	2462	0~Reference	3.35	3.35	---	PASS
11B	Ant1	2462	30~1000	3.35	-58.33	≤-26.65	PASS
11B	Ant1	2462	1000~26500	3.35	-43.89	≤-26.65	PASS
11G	Ant1	2412	0~Reference	-1.08	-1.08	---	PASS
11G	Ant1	2412	30~1000	-1.08	-57.32	≤-31.08	PASS
11G	Ant1	2412	1000~26500	-1.08	-43.81	≤-31.08	PASS
11G	Ant1	2437	0~Reference	-2.31	-2.31	---	PASS
11G	Ant1	2437	30~1000	-2.31	-57.45	≤-32.31	PASS
11G	Ant1	2437	1000~26500	-2.31	-43.09	≤-32.31	PASS
11G	Ant1	2462	0~Reference	-2.36	-2.36	---	PASS
11G	Ant1	2462	30~1000	-2.36	-58.32	≤-32.36	PASS
11G	Ant1	2462	1000~26500	-2.36	-44.34	≤-32.36	PASS
11N20SISO	Ant1	2412	0~Reference	2.63	2.63	---	PASS
11N20SISO	Ant1	2412	30~1000	2.63	-58.36	≤-27.37	PASS
11N20SISO	Ant1	2412	1000~26500	2.63	-44.29	≤-27.37	PASS
11N20SISO	Ant1	2437	0~Reference	-1.80	-1.80	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.80	-58.32	≤-31.8	PASS
11N20SISO	Ant1	2437	1000~26500	-1.80	-43.22	≤-31.8	PASS
11N20SISO	Ant1	2462	0~Reference	-2.96	-2.96	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.96	-58.16	≤-32.96	PASS
11N20SISO	Ant1	2462	1000~26500	-2.96	-44	≤-32.96	PASS
11N40SISO	Ant1	2422	0~Reference	-4.51	-4.51	---	PASS
11N40SISO	Ant1	2422	30~1000	-4.51	-57.97	≤-34.51	PASS
11N40SISO	Ant1	2422	1000~26500	-4.51	-44.3	≤-34.51	PASS
11N40SISO	Ant1	2437	0~Reference	-4.63	-4.63	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.63	-57.49	≤-34.63	PASS
11N40SISO	Ant1	2437	1000~26500	-4.63	-43.9	≤-34.63	PASS
11N40SISO	Ant1	2452	0~Reference	-4.80	-4.80	---	PASS
11N40SISO	Ant1	2452	30~1000	-4.80	-57.4	≤-34.8	PASS
11N40SISO	Ant1	2452	1000~26500	-4.80	-43.68	≤-34.8	PASS
11AX20SISO	Ant1	2412	0~Reference	-0.61	-0.61	---	PASS

11AX20SISO	Ant1	2412	30~1000	-0.61	-57.73	≤-30.61	PASS
11AX20SISO	Ant1	2412	1000~26500	-0.61	-43.92	≤-30.61	PASS
11AX20SISO	Ant1	2437	0~Reference	-2.14	-2.14	---	PASS
11AX20SISO	Ant1	2437	30~1000	-2.14	-57.63	≤-32.14	PASS
11AX20SISO	Ant1	2437	1000~26500	-2.14	-43.58	≤-32.14	PASS
11AX20SISO	Ant1	2462	0~Reference	-2.07	-2.07	---	PASS
11AX20SISO	Ant1	2462	30~1000	-2.07	-57.56	≤-32.07	PASS
11AX20SISO	Ant1	2462	1000~26500	-2.07	-43.77	≤-32.07	PASS
11AX40SISO	Ant1	2422	0~Reference	-1.19	-1.19	---	PASS
11AX40SISO	Ant1	2422	30~1000	-1.19	-58.09	≤-31.19	PASS
11AX40SISO	Ant1	2422	1000~26500	-1.19	-43.84	≤-31.19	PASS
11AX40SISO	Ant1	2437	0~Reference	-4.71	-4.71	---	PASS
11AX40SISO	Ant1	2437	30~1000	-4.71	-57.91	≤-34.71	PASS
11AX40SISO	Ant1	2437	1000~26500	-4.71	-44.39	≤-34.71	PASS
11AX40SISO	Ant1	2452	0~Reference	-4.88	-4.88	---	PASS
11AX40SISO	Ant1	2452	30~1000	-4.88	-58.02	≤-34.88	PASS
11AX40SISO	Ant1	2452	1000~26500	-4.88	-43.59	≤-34.88	PASS

Test Graphs



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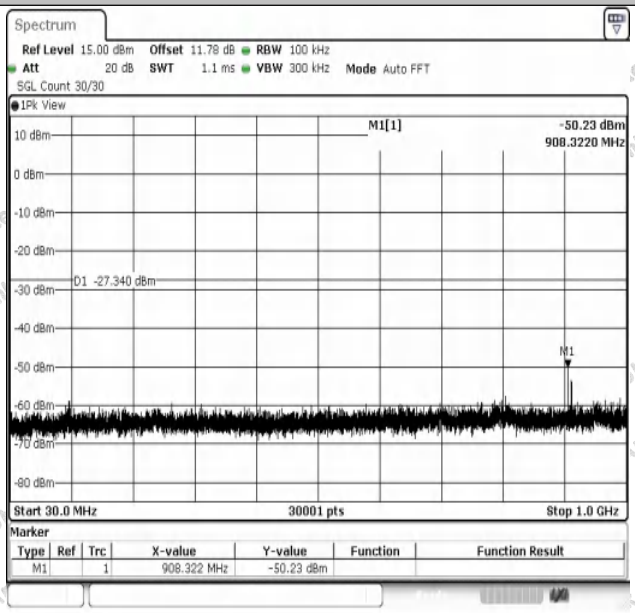

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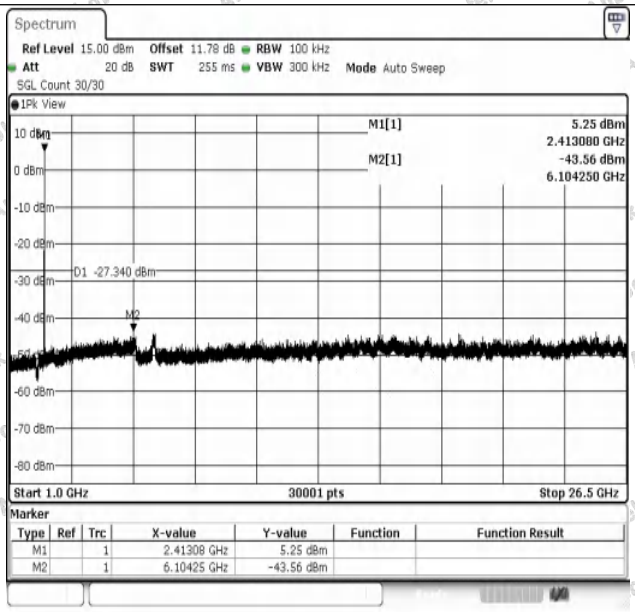

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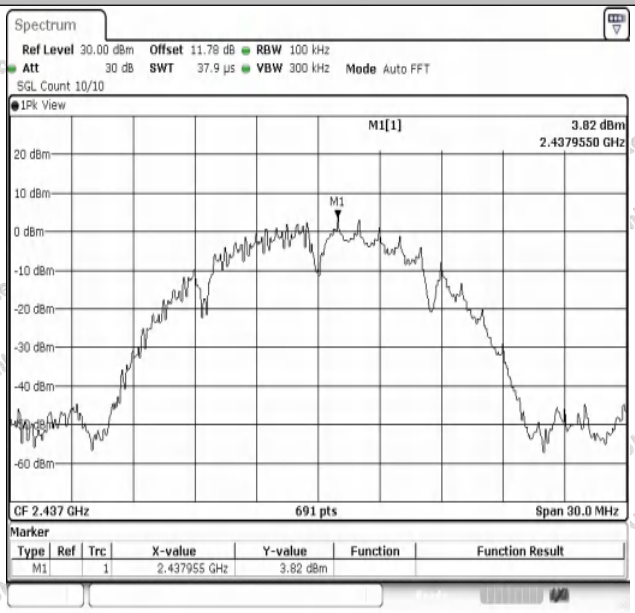

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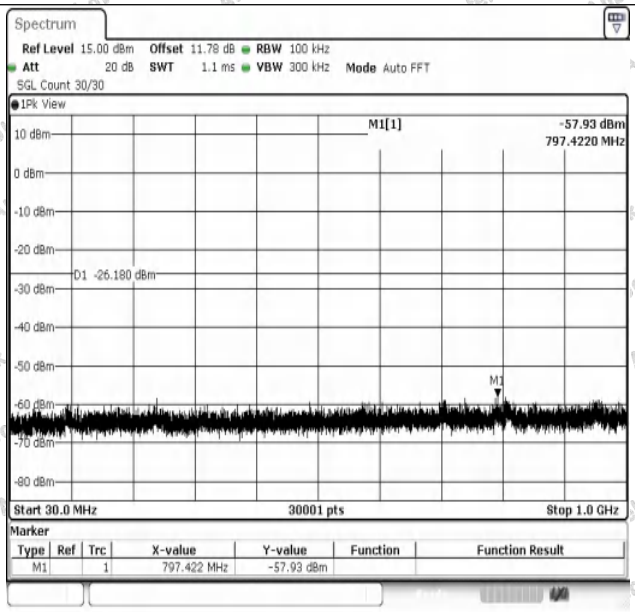

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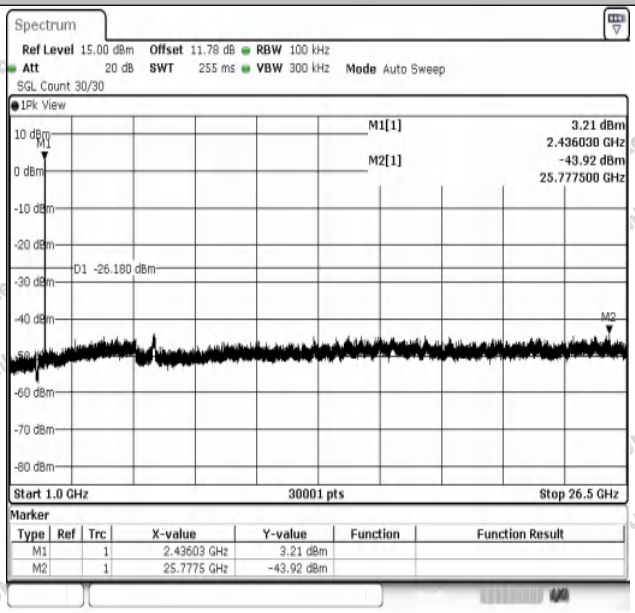

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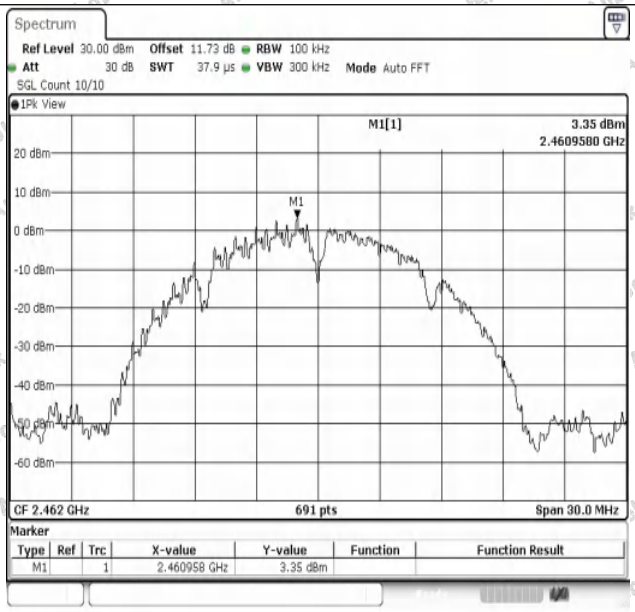

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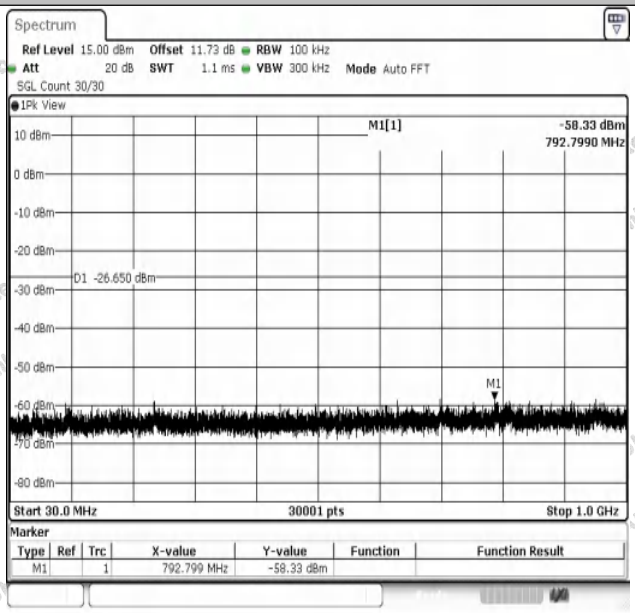

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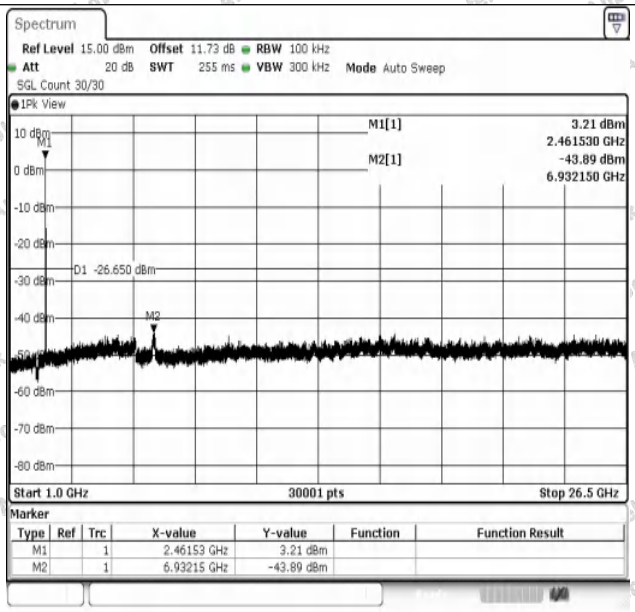

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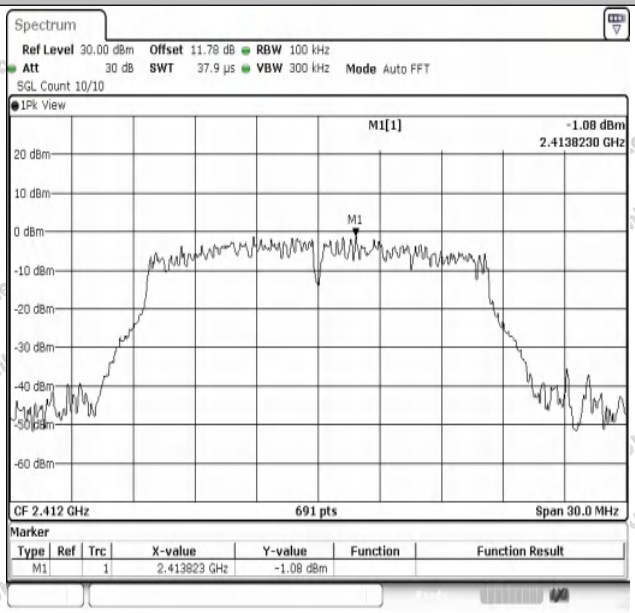

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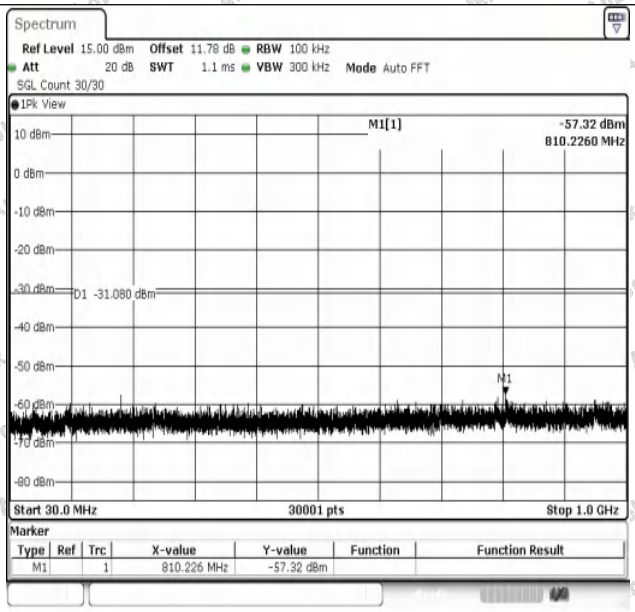

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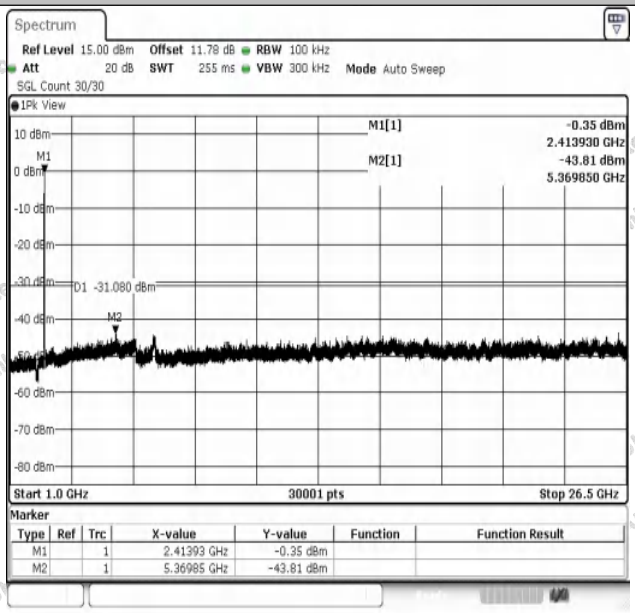

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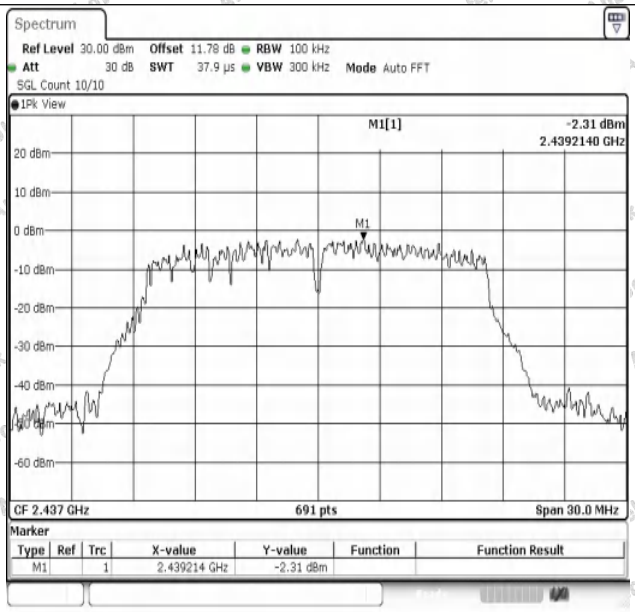

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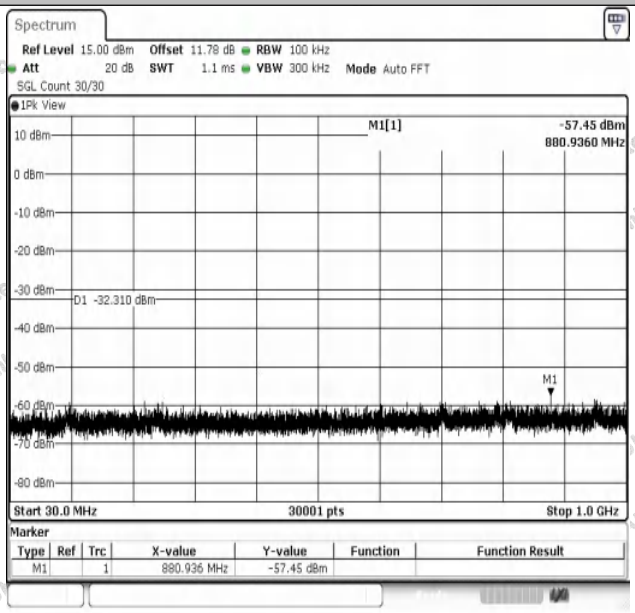

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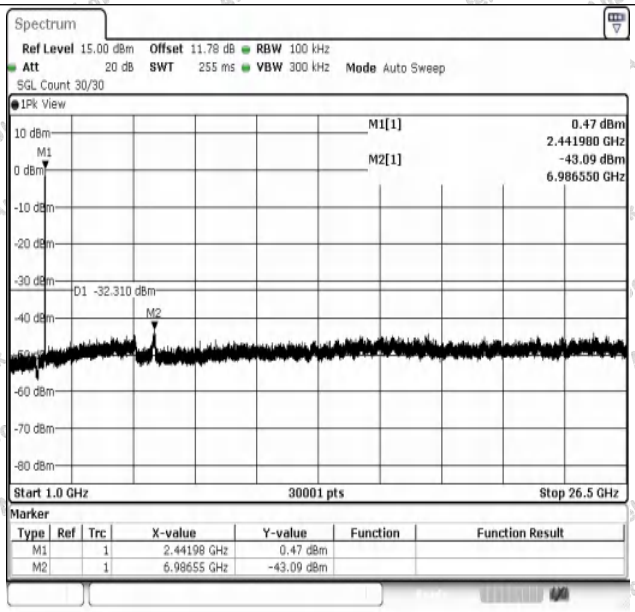

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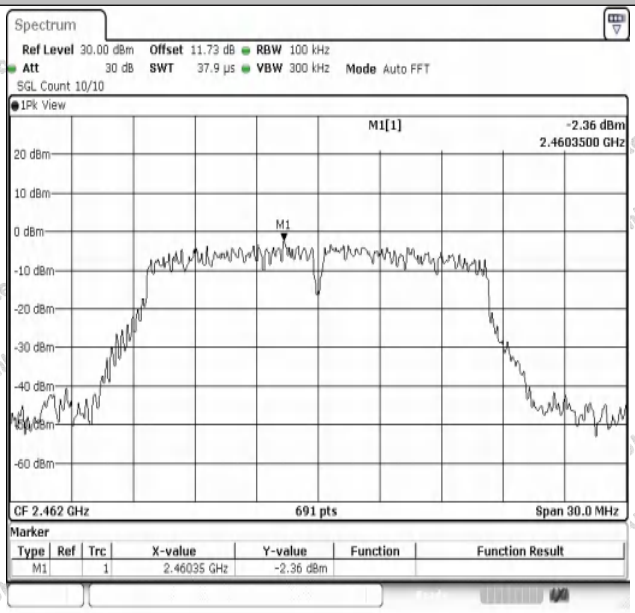

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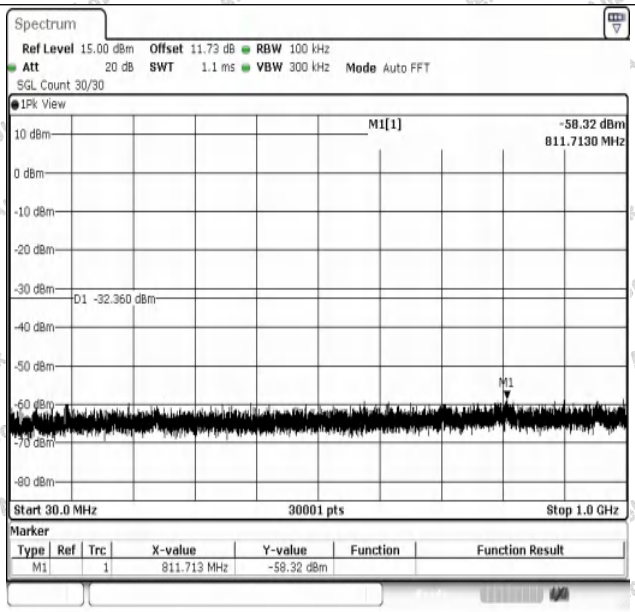

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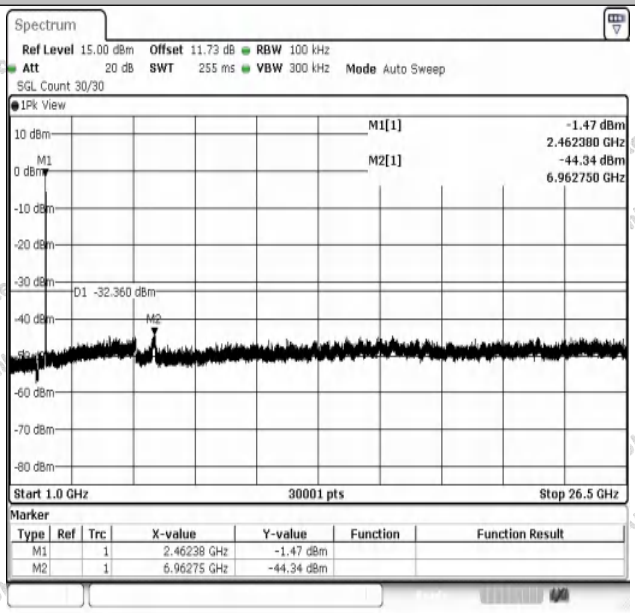

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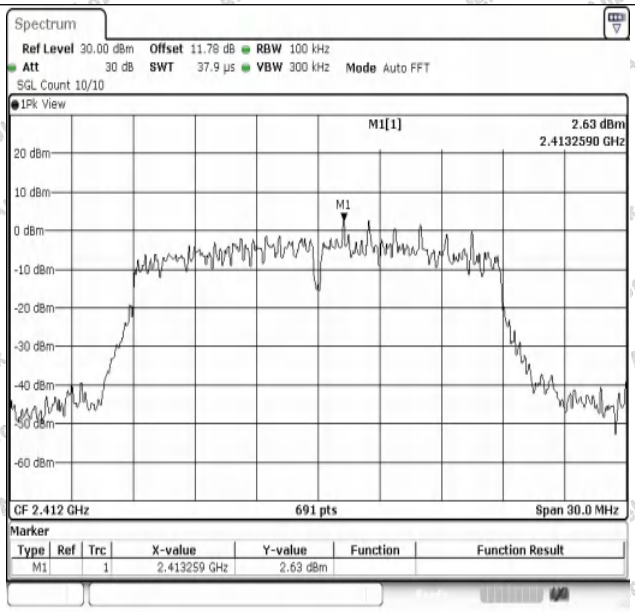

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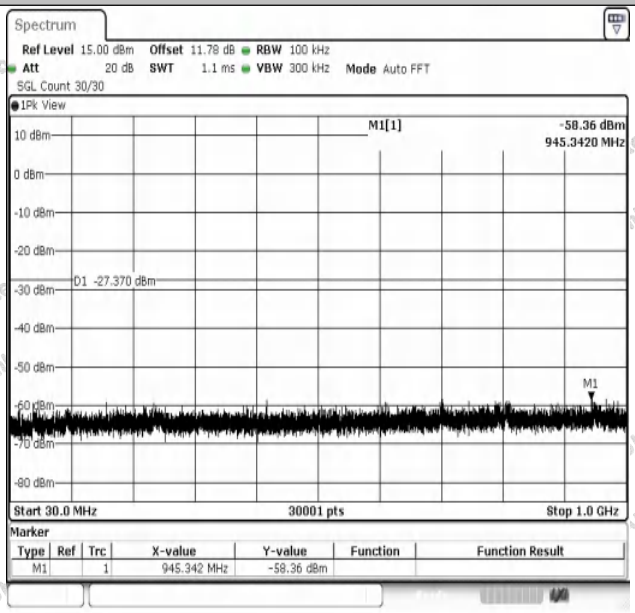

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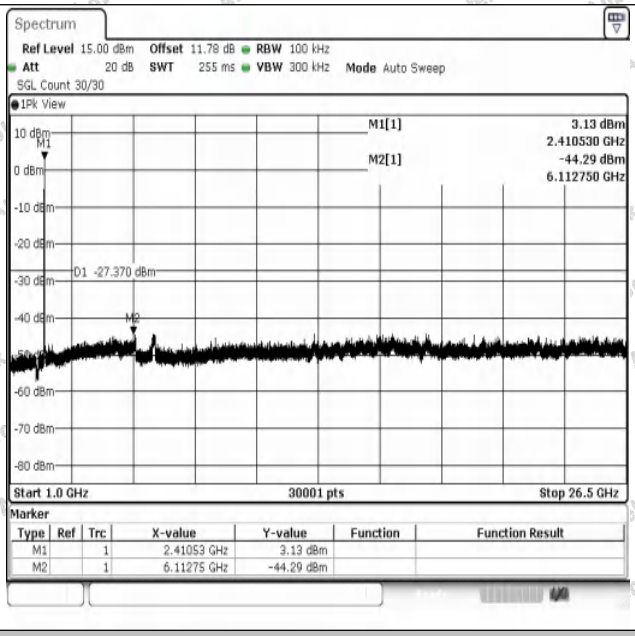

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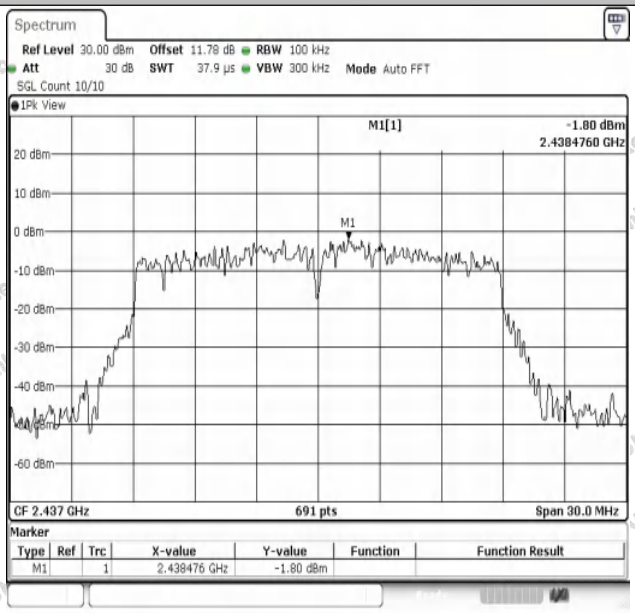

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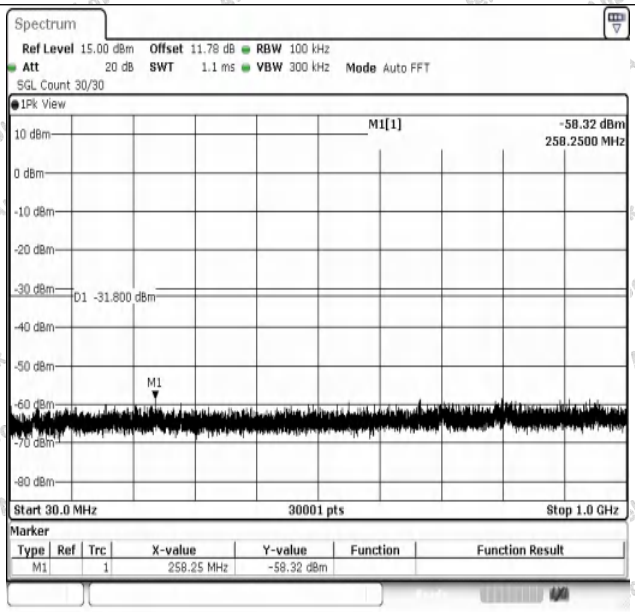

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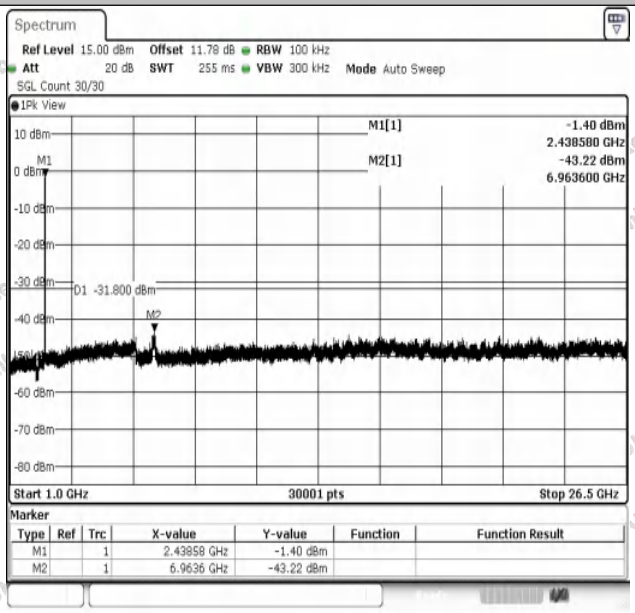

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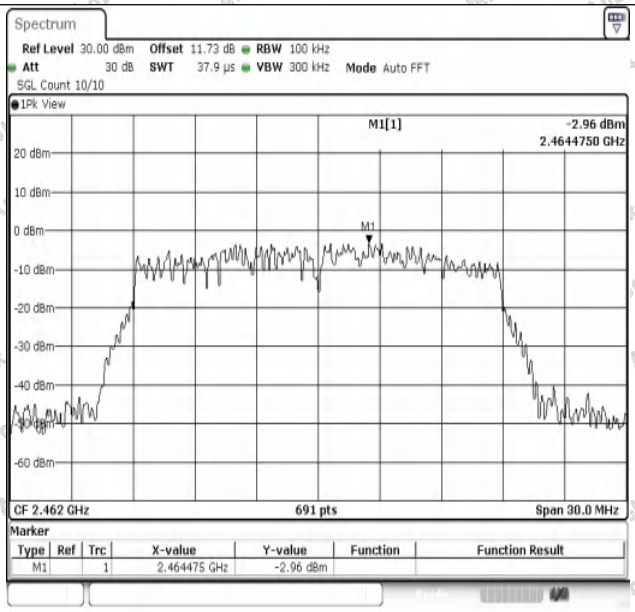

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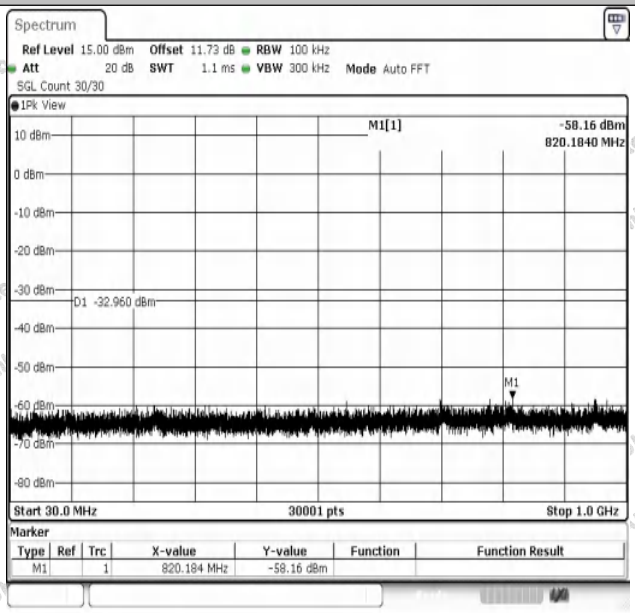

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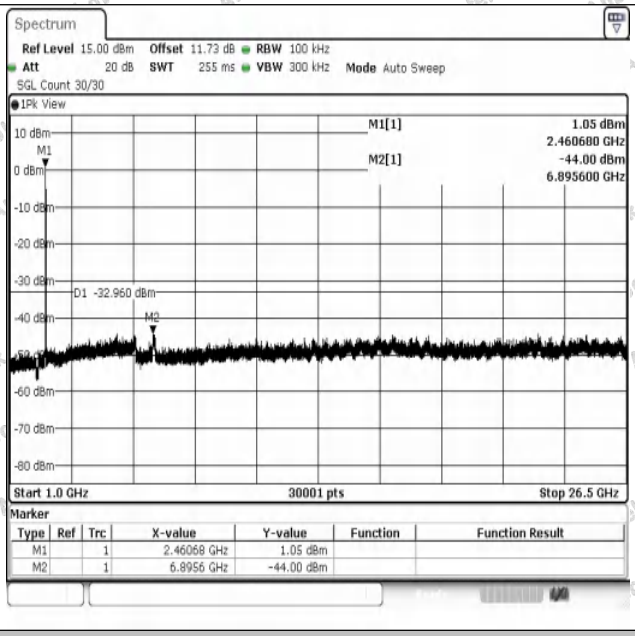

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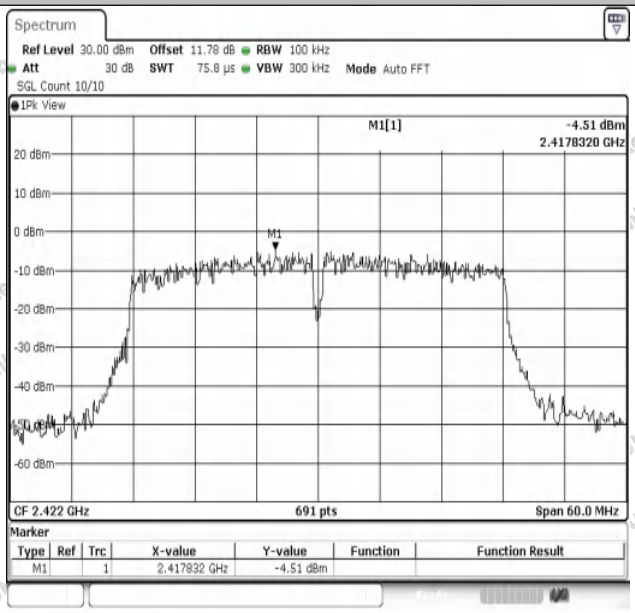

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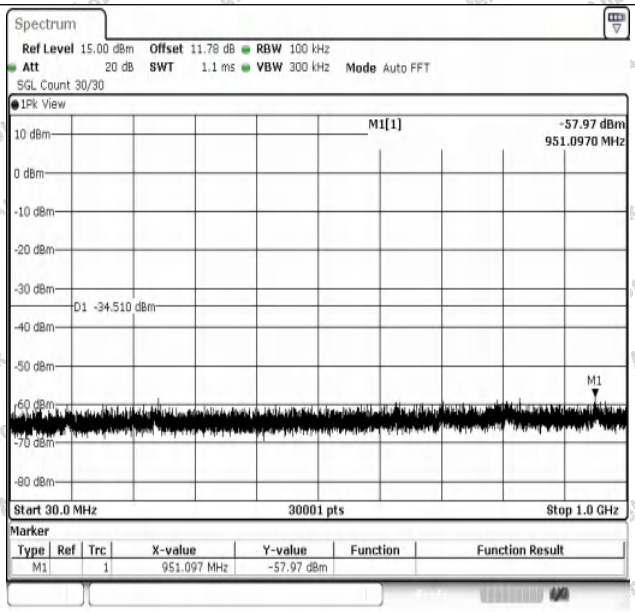

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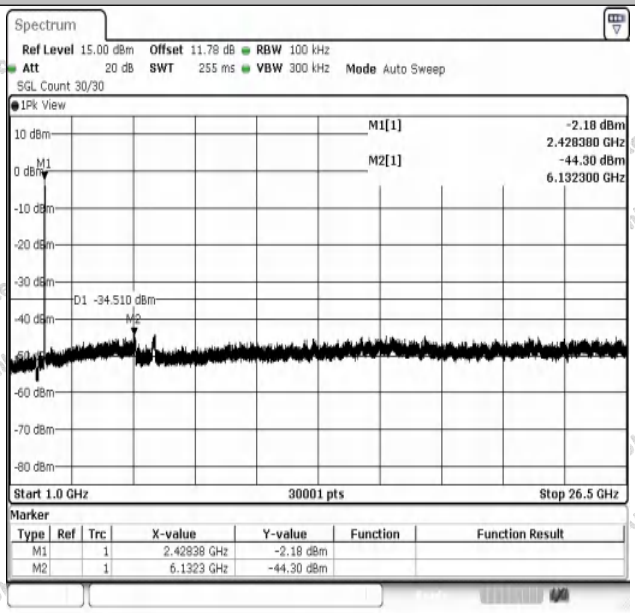

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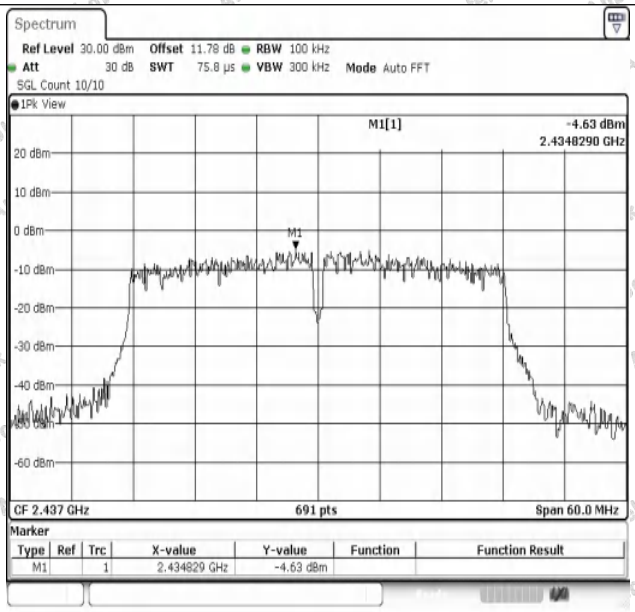

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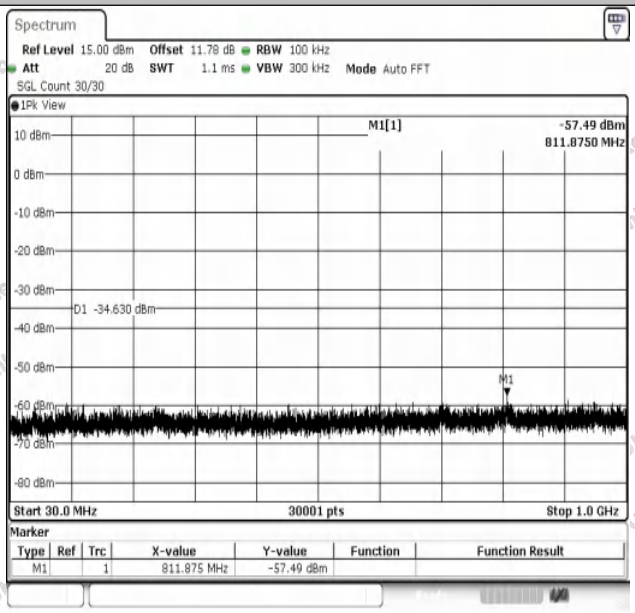

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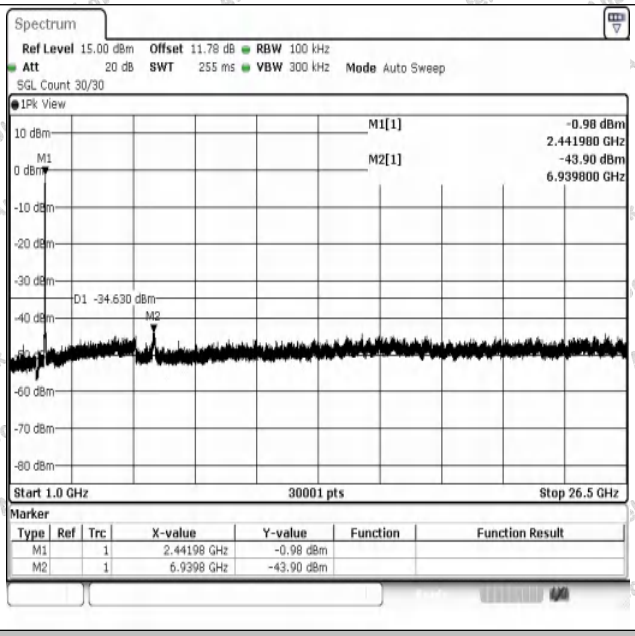

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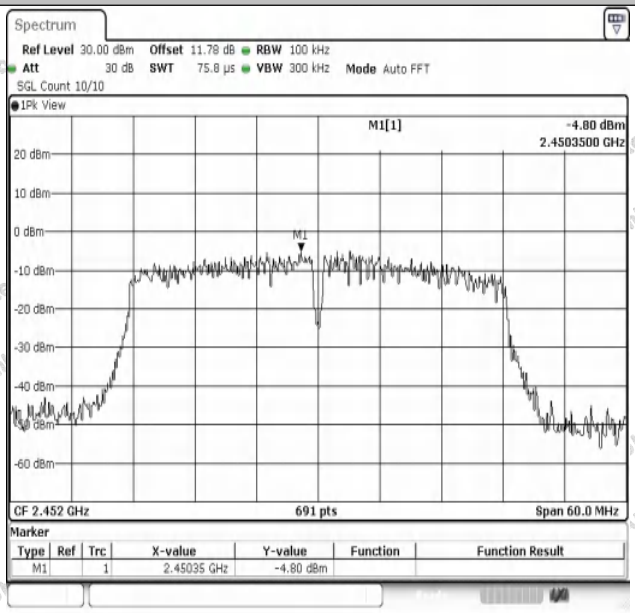

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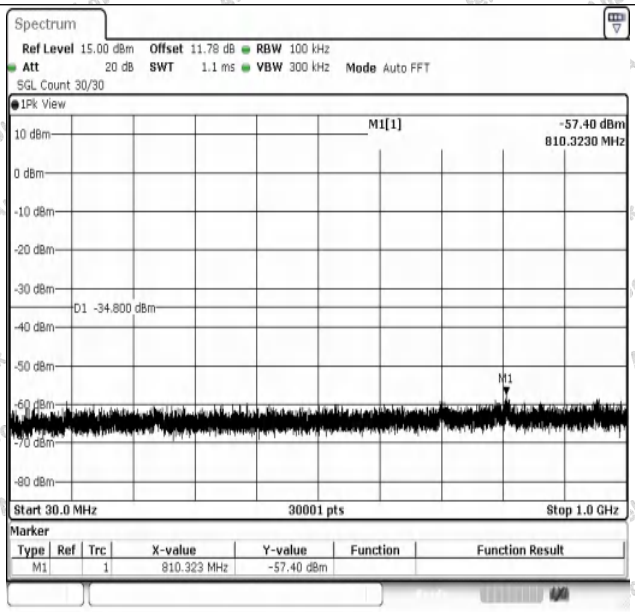

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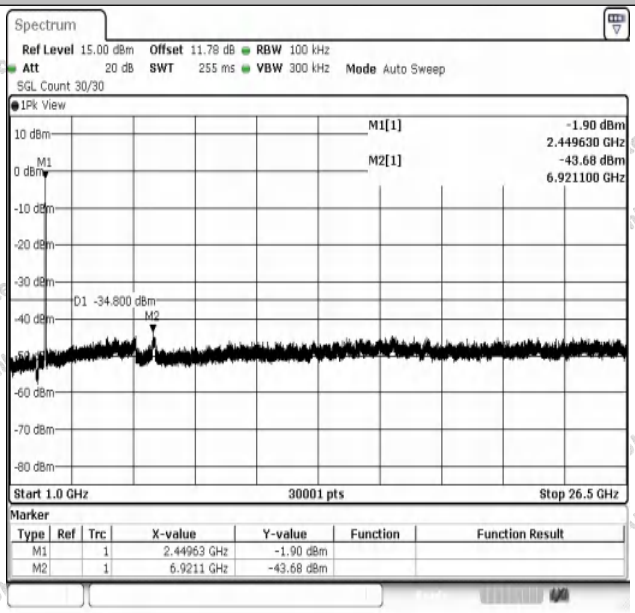

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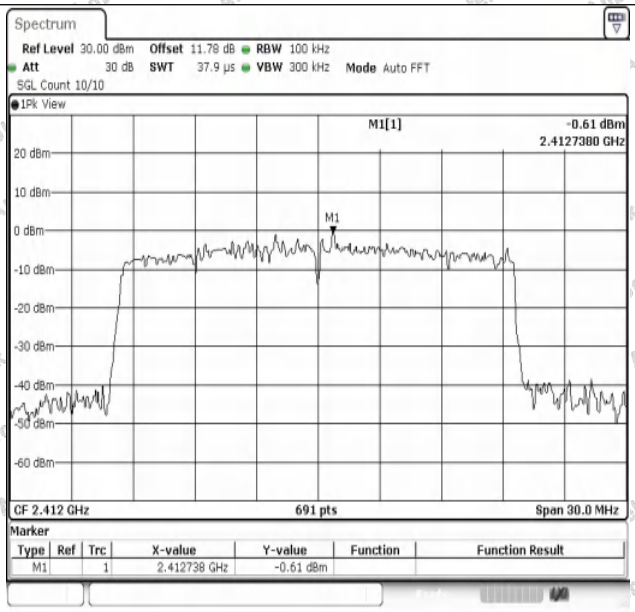

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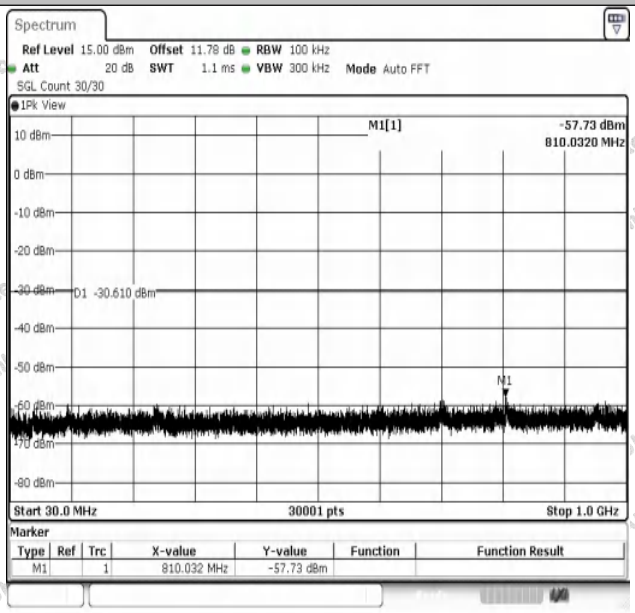

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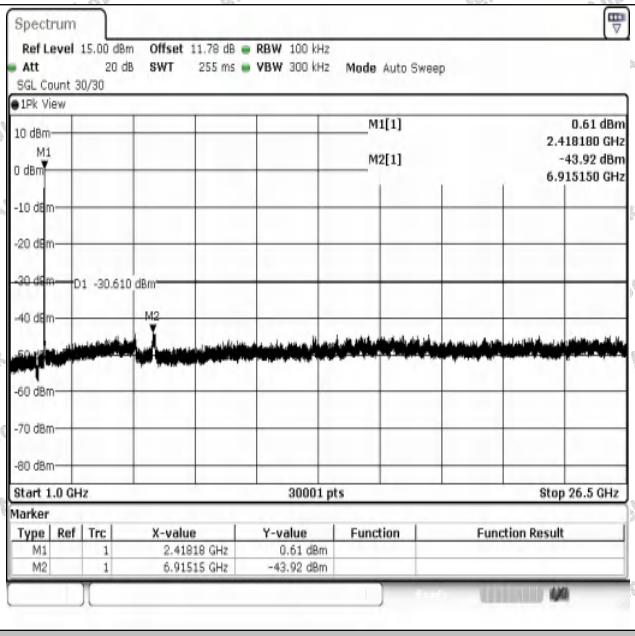

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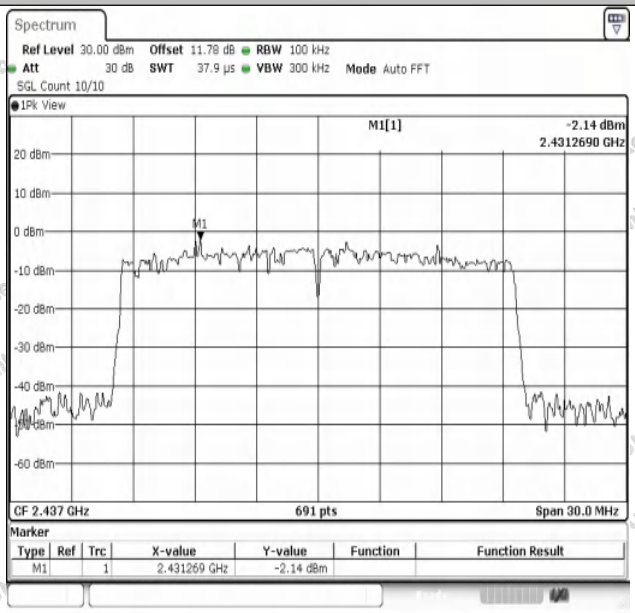

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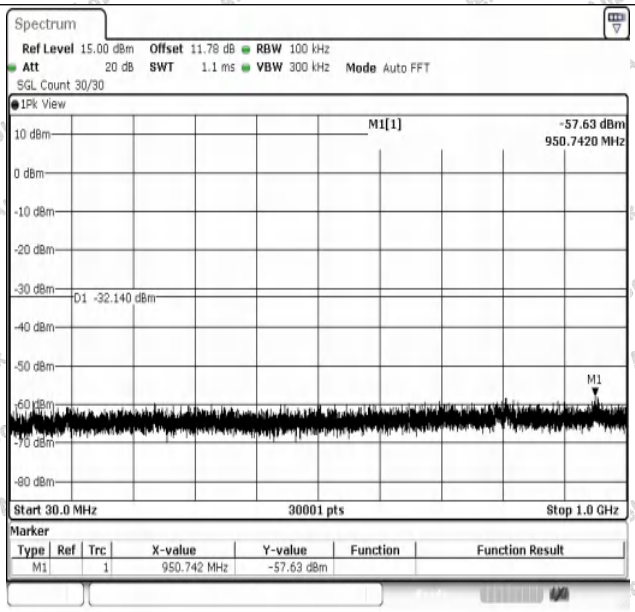

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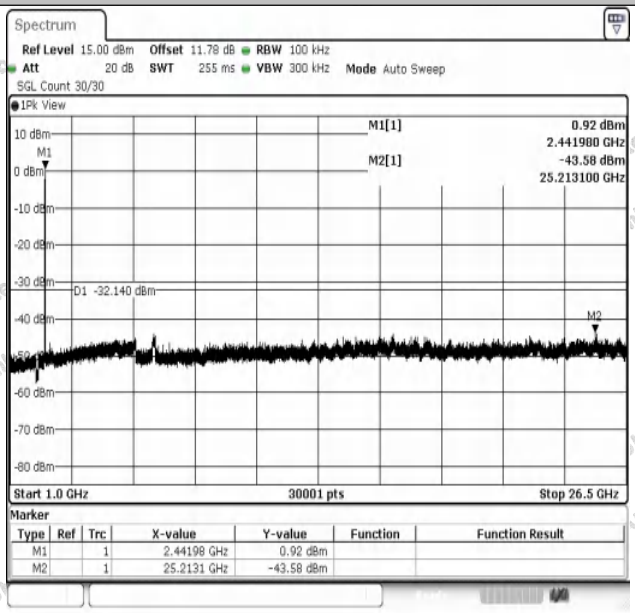

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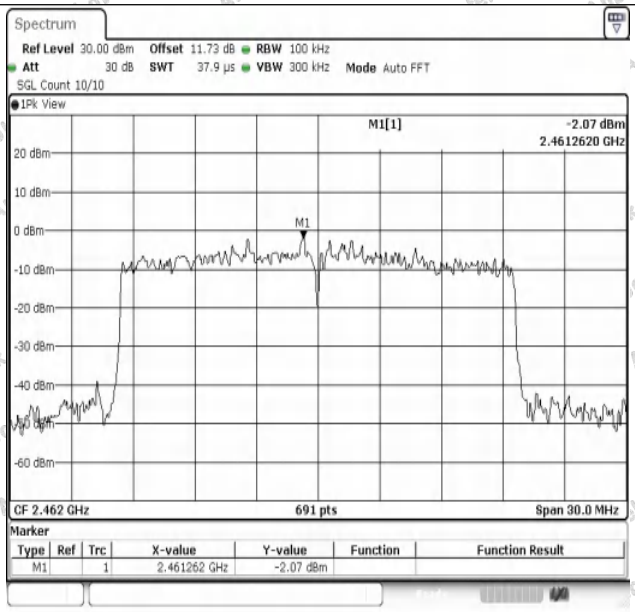

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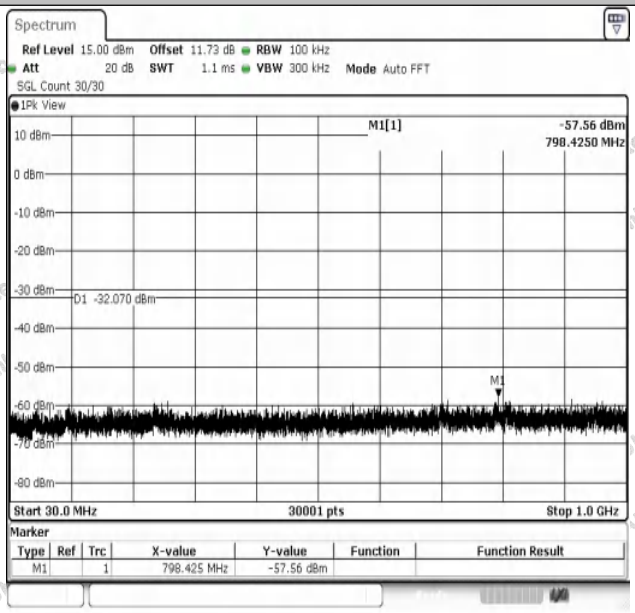

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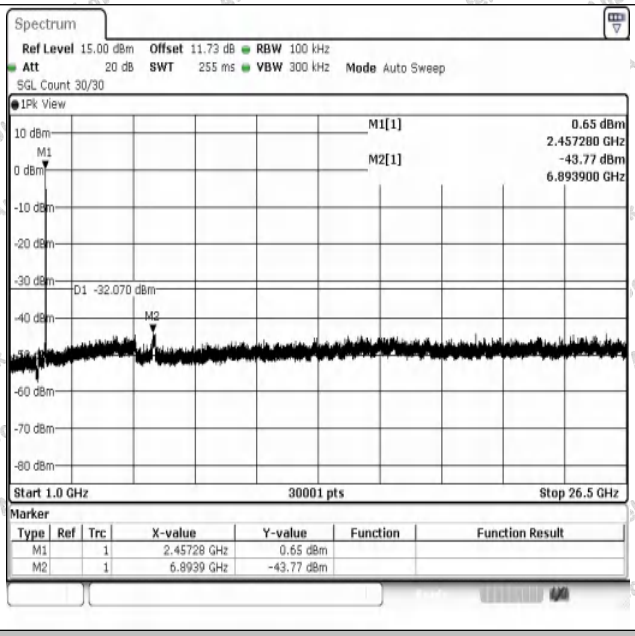

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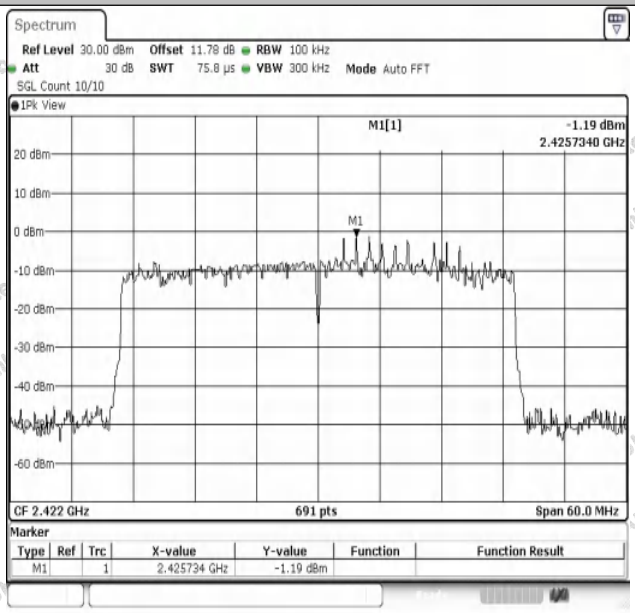

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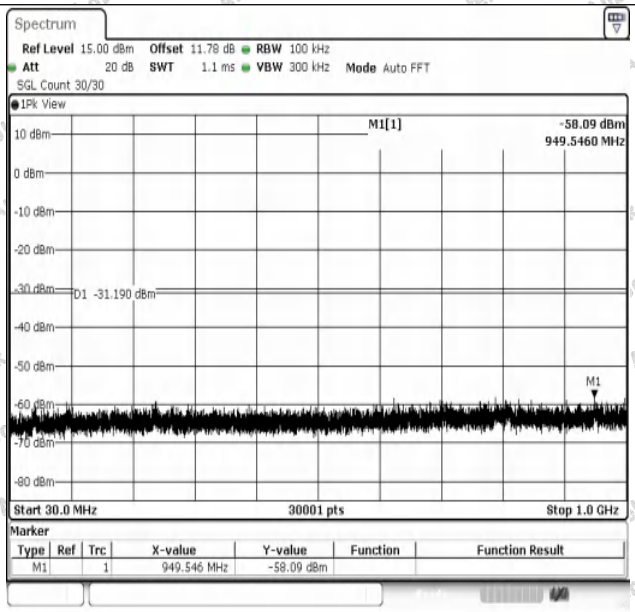

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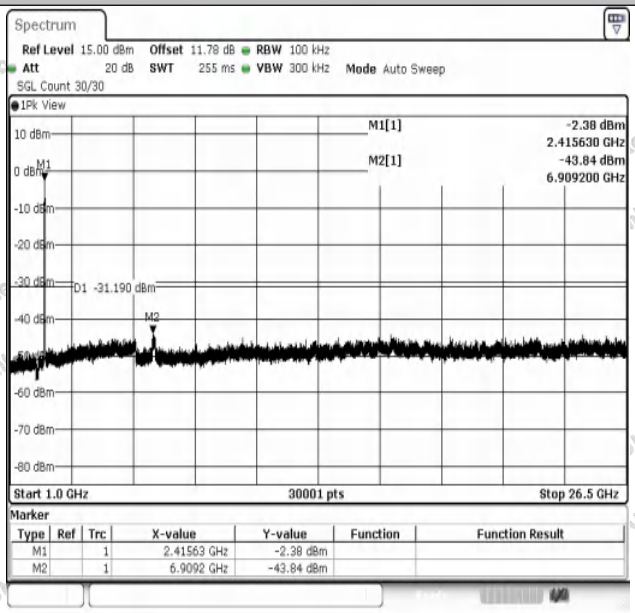

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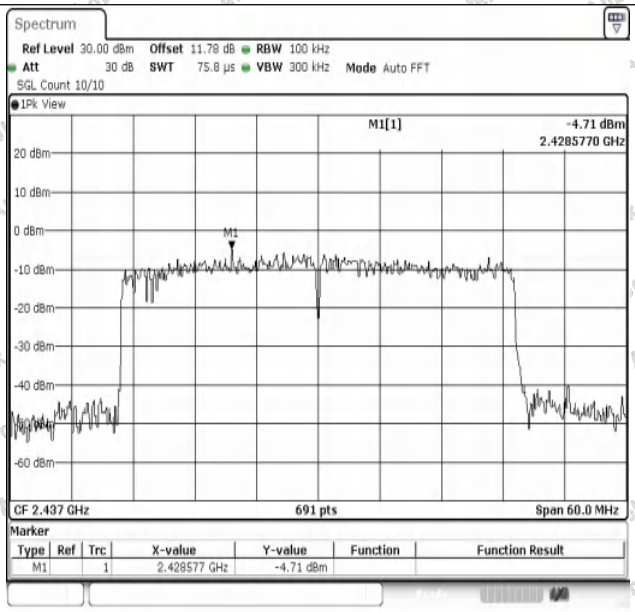

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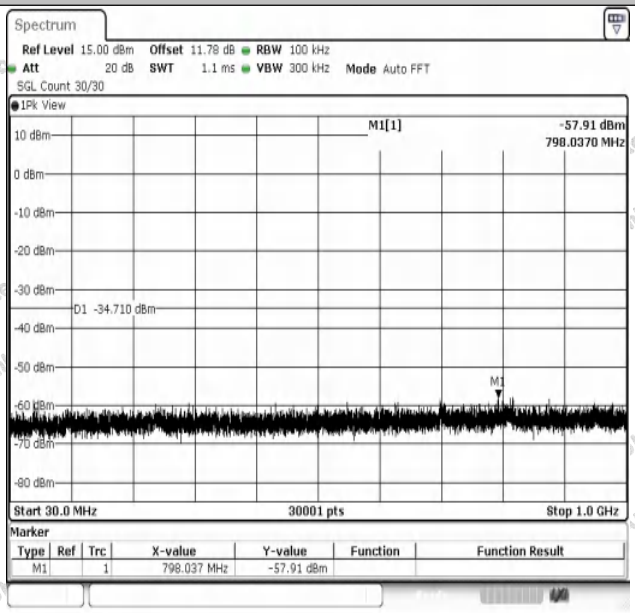

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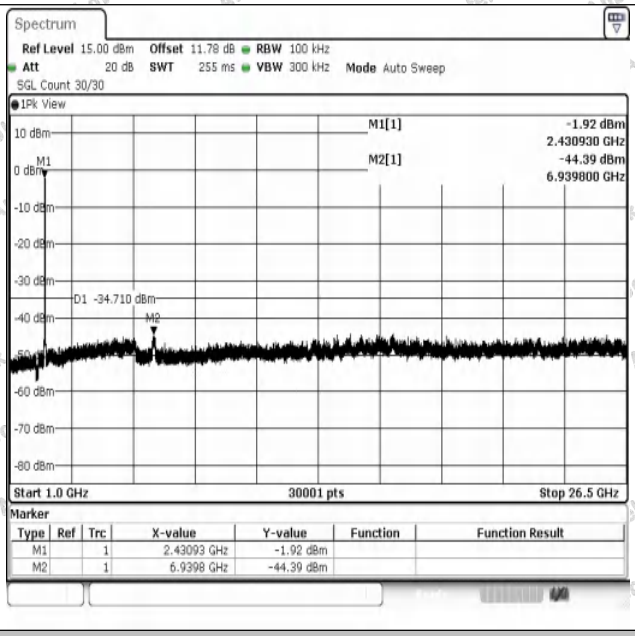

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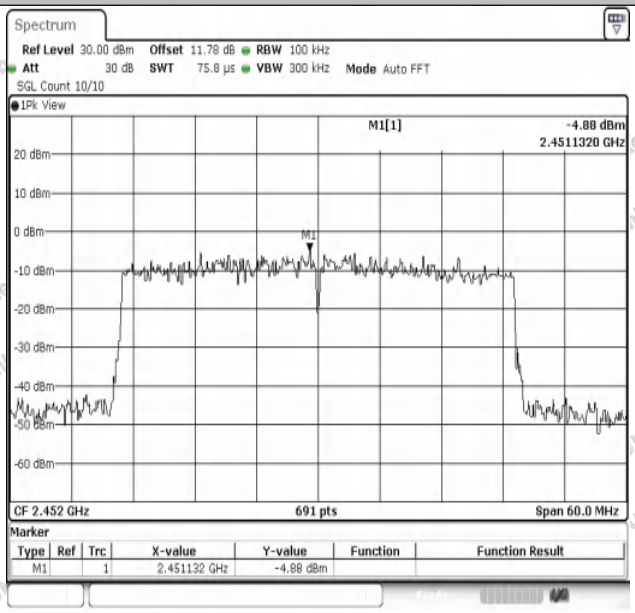

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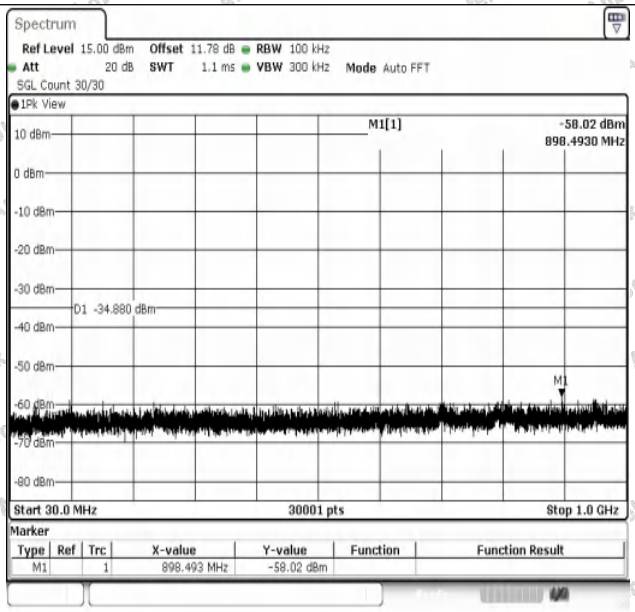

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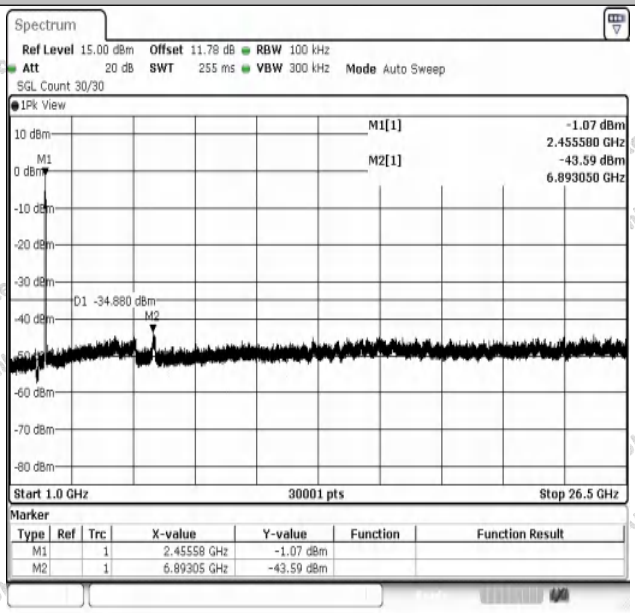


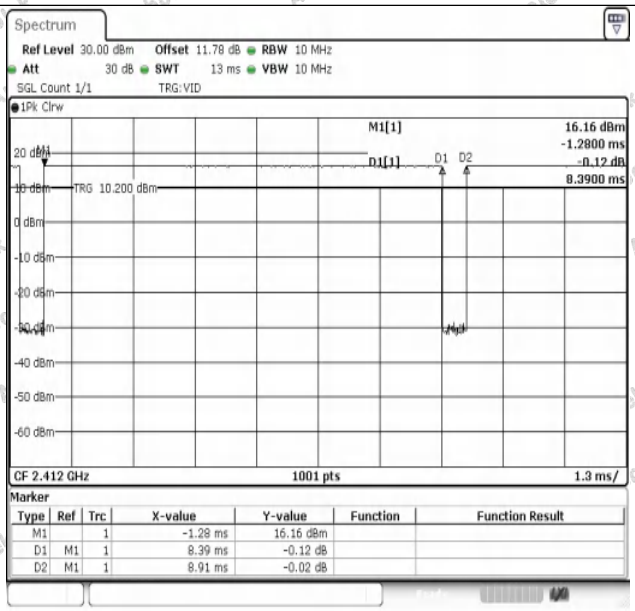
11AX40SISO-Ant1-2452-1000~26500-PASS

Appendix G: Duty Cycle

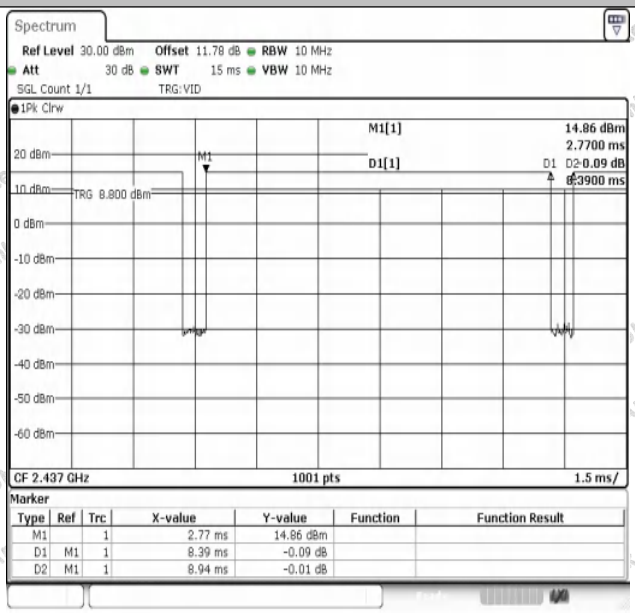
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.91	94.16	0.26
11B	Ant1	2437	8.39	8.94	93.85	0.28
11B	Ant1	2462	8.40	8.92	94.17	0.26
11G	Ant1	2412	1.39	1.93	72.02	1.43
11G	Ant1	2437	1.39	1.93	72.02	1.43
11G	Ant1	2462	1.39	1.95	71.28	1.47
11N20SISO	Ant1	2412	1.30	1.86	69.89	1.56
11N20SISO	Ant1	2437	1.30	1.84	70.65	1.51
11N20SISO	Ant1	2462	1.30	1.85	70.27	1.53
11N40SISO	Ant1	2422	0.65	1.19	54.62	2.63
11N40SISO	Ant1	2437	0.65	1.19	54.62	2.63
11N40SISO	Ant1	2452	0.65	1.19	54.62	2.63
11AX20SISO	Ant1	2412	1.01	1.55	65.16	1.86
11AX20SISO	Ant1	2437	1.02	1.56	65.38	1.85
11AX20SISO	Ant1	2462	1.01	1.55	65.16	1.86
11AX40SISO	Ant1	2422	0.54	1.08	50.00	3.01
11AX40SISO	Ant1	2437	0.53	1.07	49.53	3.05
11AX40SISO	Ant1	2452	0.54	1.07	50.47	2.97

Test Graphs



NTNV-11B-Ant1-2412



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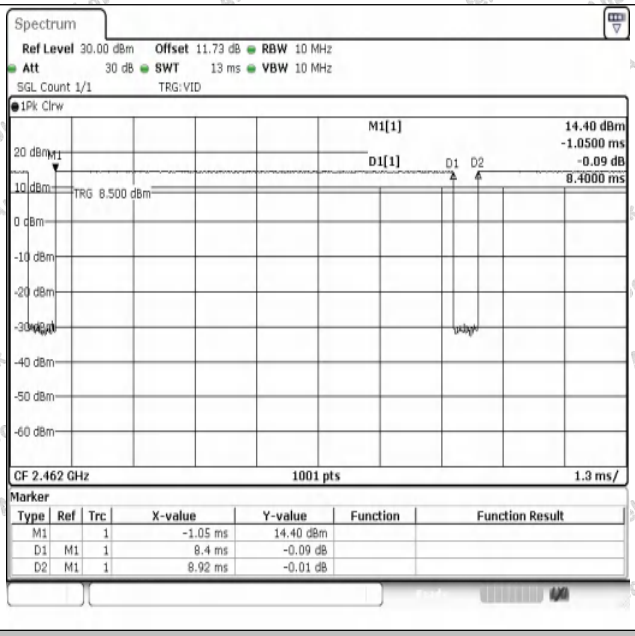

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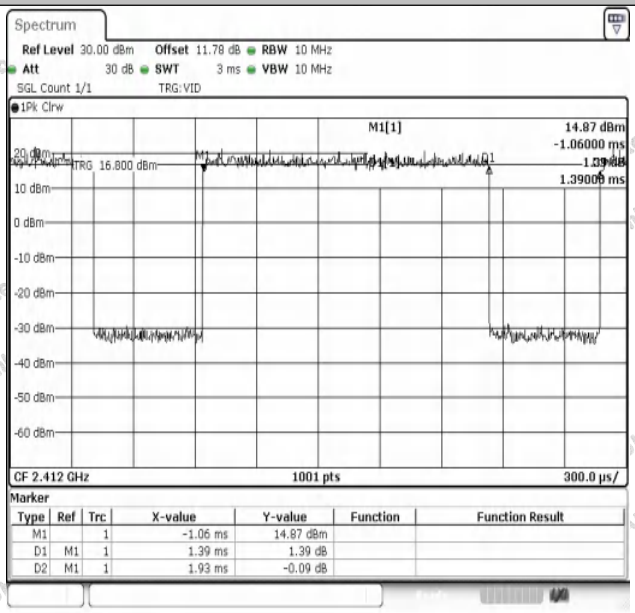

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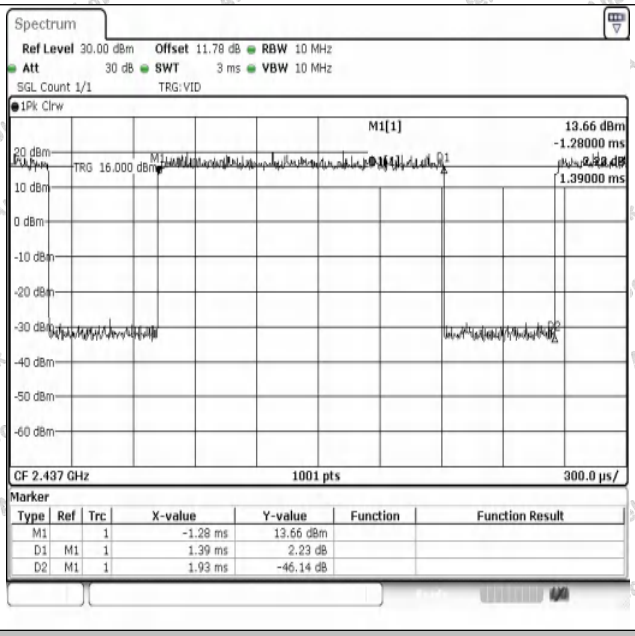

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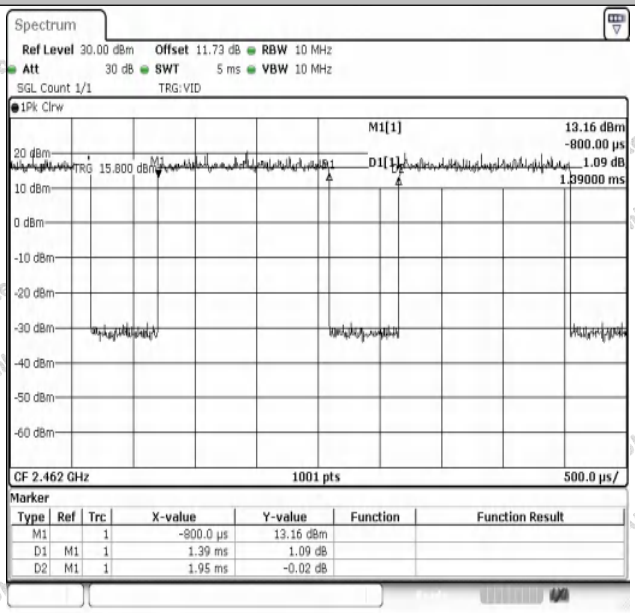

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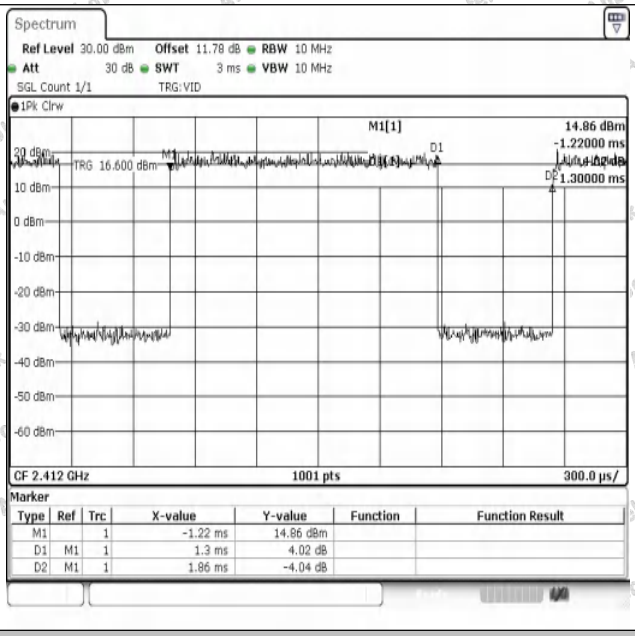

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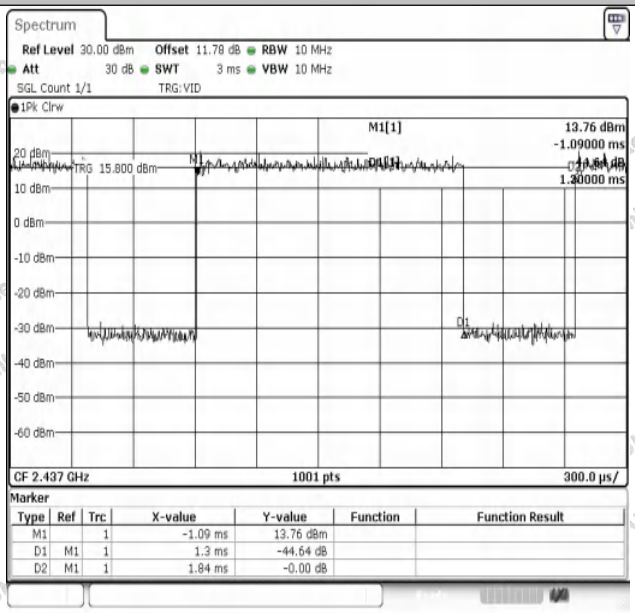

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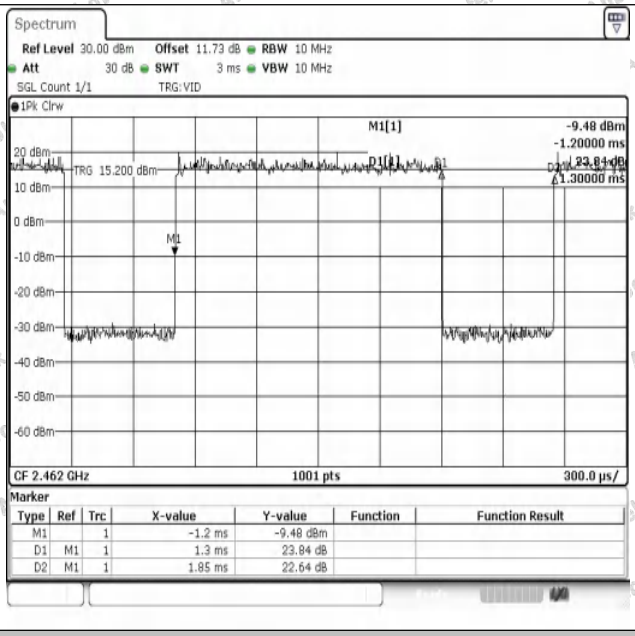

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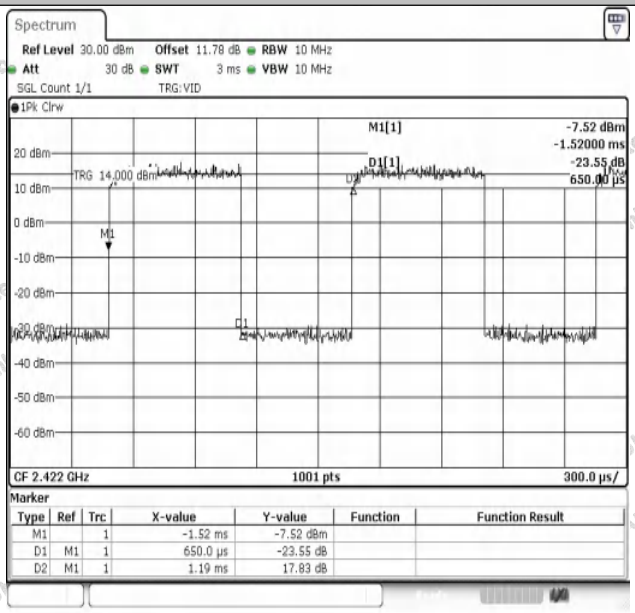

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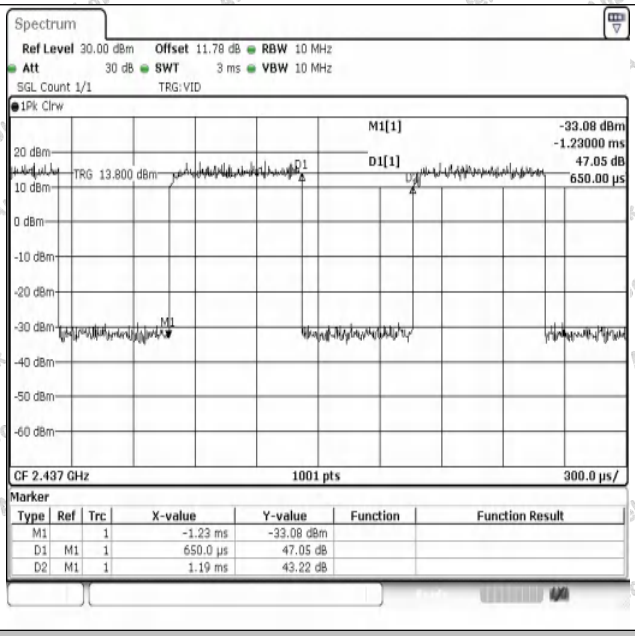

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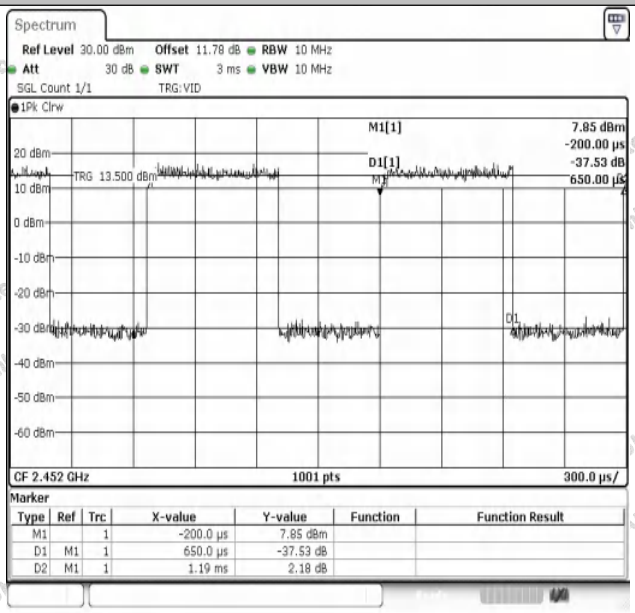

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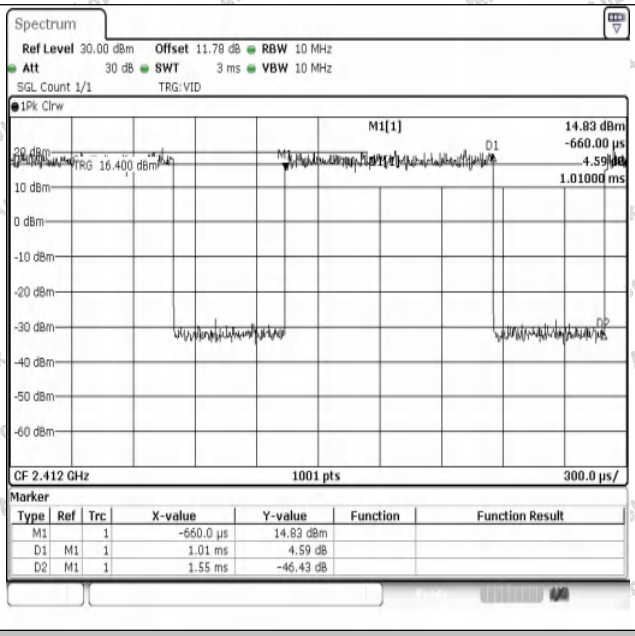

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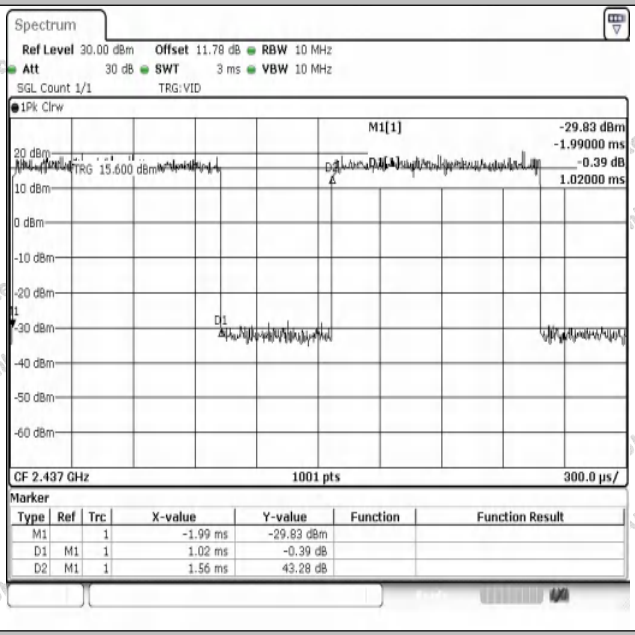

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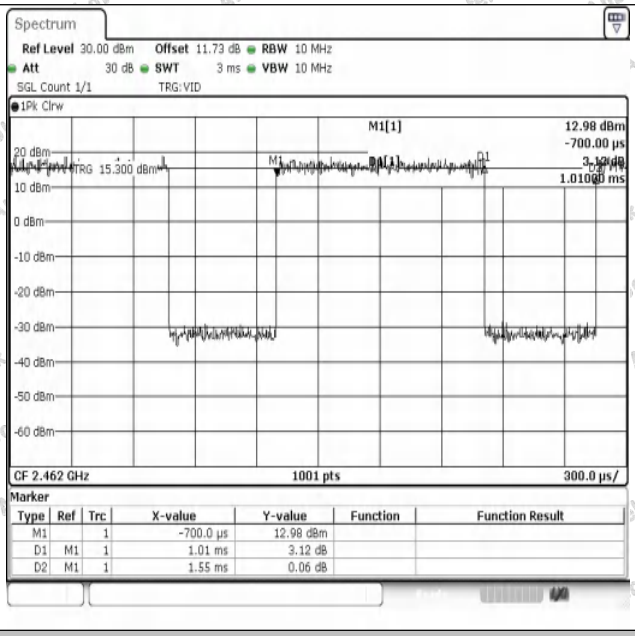

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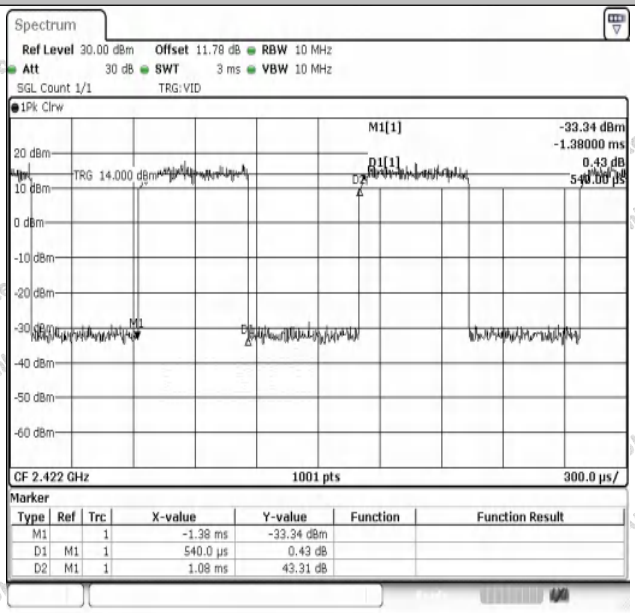

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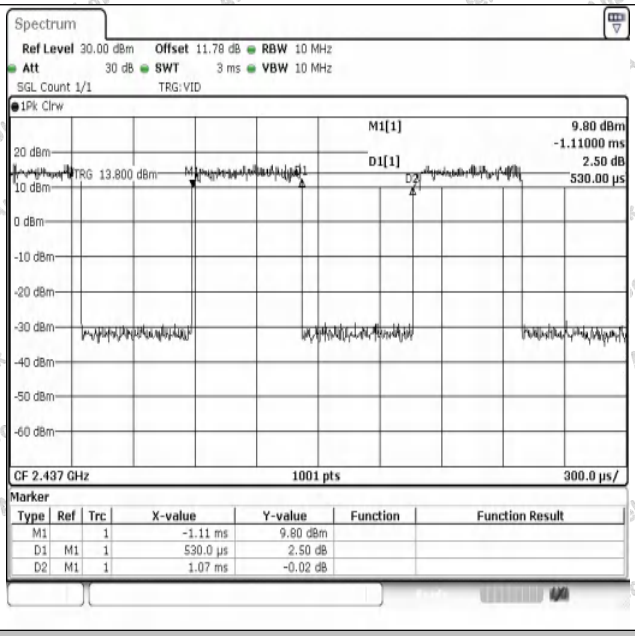

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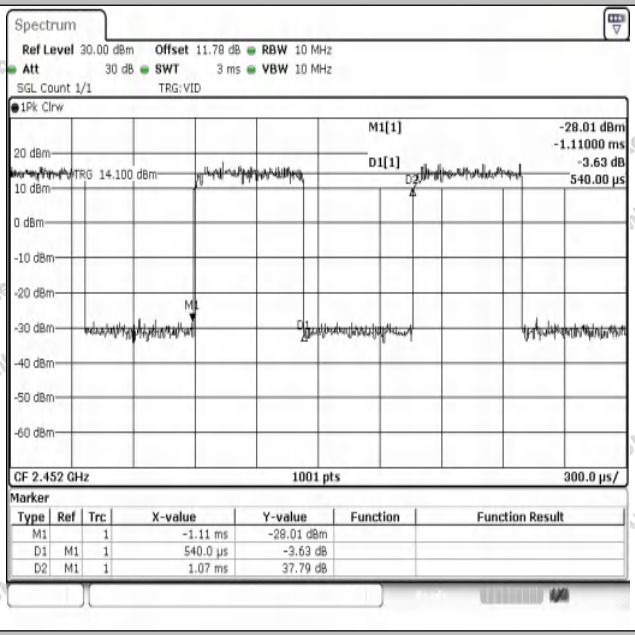

NTNV-11AX40SISO-Ant1-2452

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