Appendix Test Data

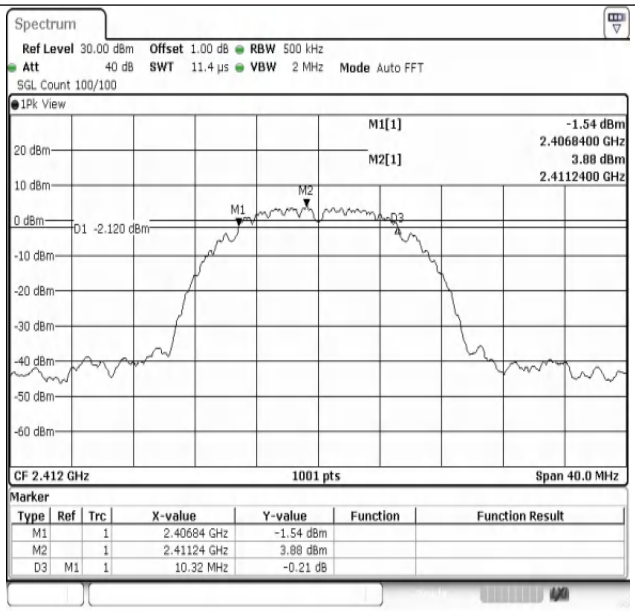
Report No.:	1814C50127412502	Test Sample No.:	1-2-2
Start Test Date:	2025-5-12	Finish Test Date:	2025-5-14
Test Engineer:	Huisen Guan	Auditor:	Justin Feng
Temperature:	25.1℃	Relative Humidity:	51%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

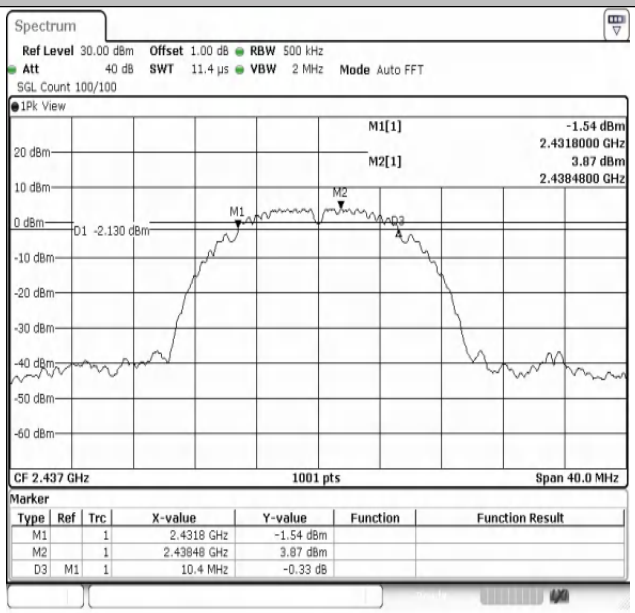
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.32	2406.84	2417.16	0.5	PASS
11B	Ant1	2437	10.40	2431.80	2442.20	0.5	PASS
11B	Ant1	2462	10.36	2456.80	2467.16	0.5	PASS
11G	Ant1	2412	11.24	2406.44	2417.68	0.5	PASS
11G	Ant1	2437	14.16	2430.56	2444.72	0.5	PASS
11G	Ant1	2462	16.08	2453.88	2469.96	0.5	PASS
11N20SISO	Ant1	2412	14.92	2404.24	2419.16	0.5	PASS
11N20SISO	Ant1	2437	15.80	2428.48	2444.28	0.5	PASS
11N20SISO	Ant1	2462	15.60	2454.40	2470.00	0.5	PASS
11N40SISO	Ant1	2422	32.64	2404.24	2436.88	0.5	PASS
11N40SISO	Ant1	2437	34.96	2419.08	2454.04	0.5	PASS
11N40SISO	Ant1	2452	34.72	2434.32	2469.04	0.5	PASS
11AX20SISO	Ant1	2412	14.96	2403.28	2418.24	0.5	PASS
11AX20SISO	Ant1	2437	15.08	2428.20	2443.28	0.5	PASS
11AX20SISO	Ant1	2462	8.56	2456.04	2464.60	0.5	PASS
11AX40SISO	Ant1	2422	31.84	2405.84	2437.68	0.5	PASS
11AX40SISO	Ant1	2437	27.44	2424.52	2451.96	0.5	PASS
11AX40SISO	Ant1	2452	32.48	2434.24	2466.72	0.5	PASS

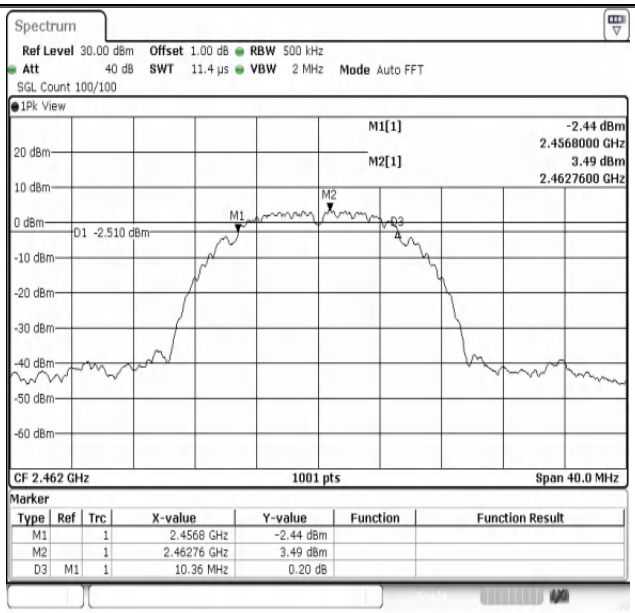
Test Graphs



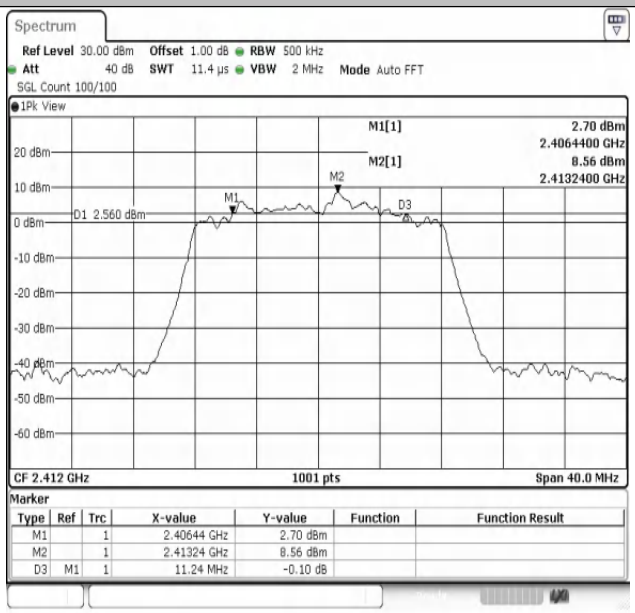
11B-Ant1-2412-PASS



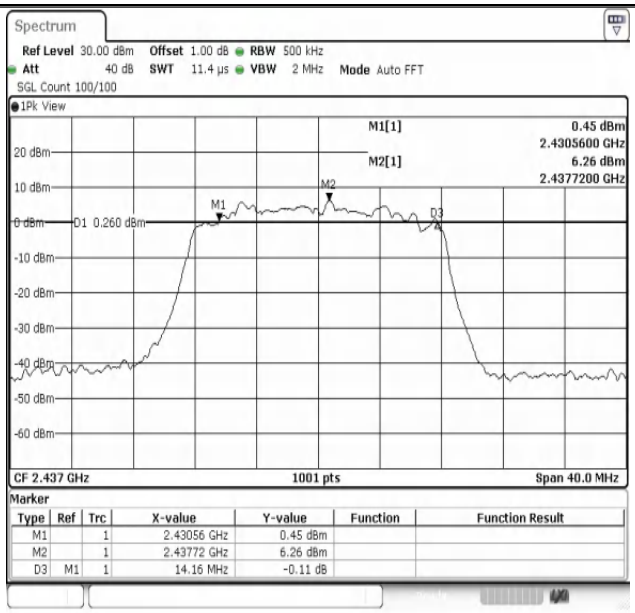
11B-Ant1-2437-PASS



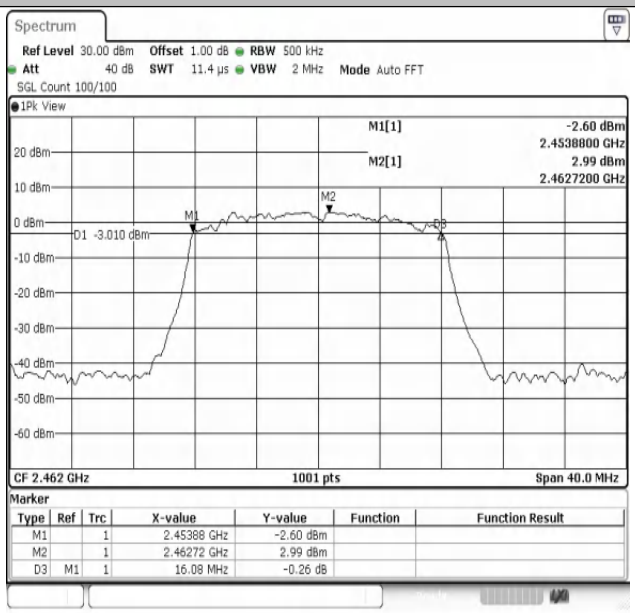
11B-Ant1-2462-PASS



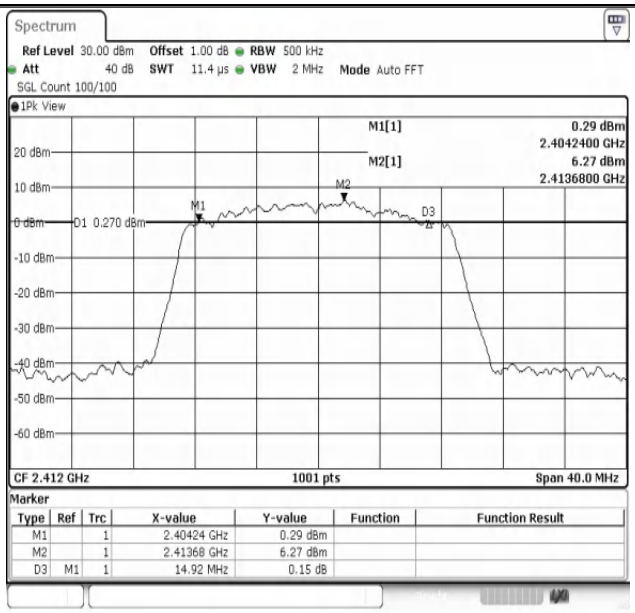
11G-Ant1-2412-PASS



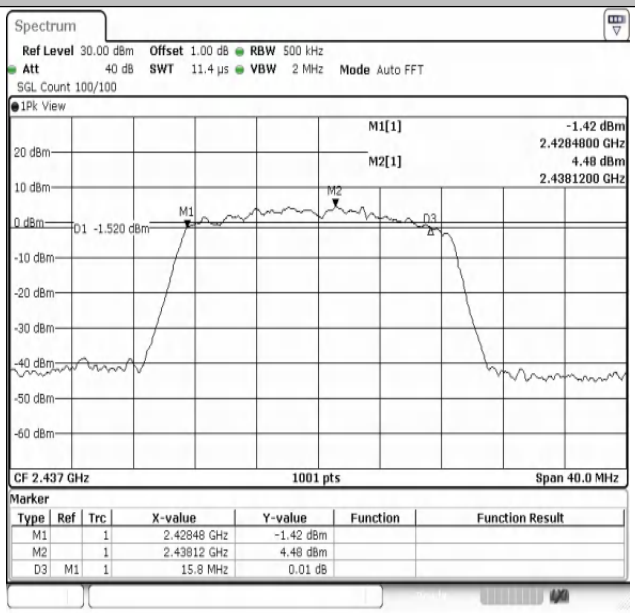
11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



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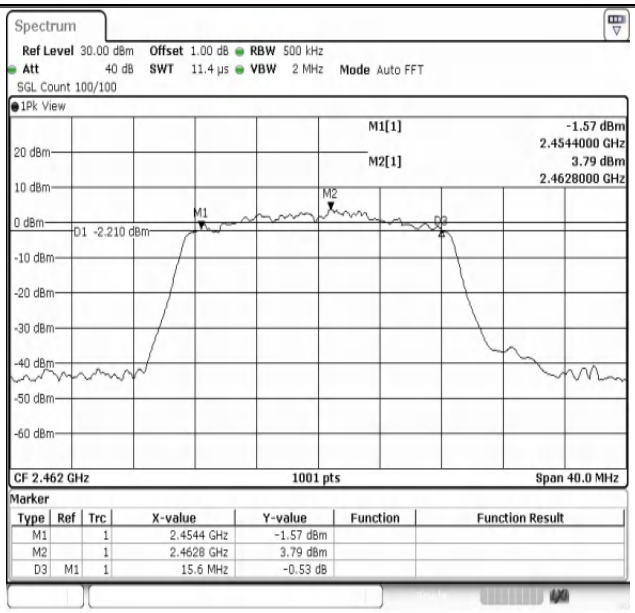

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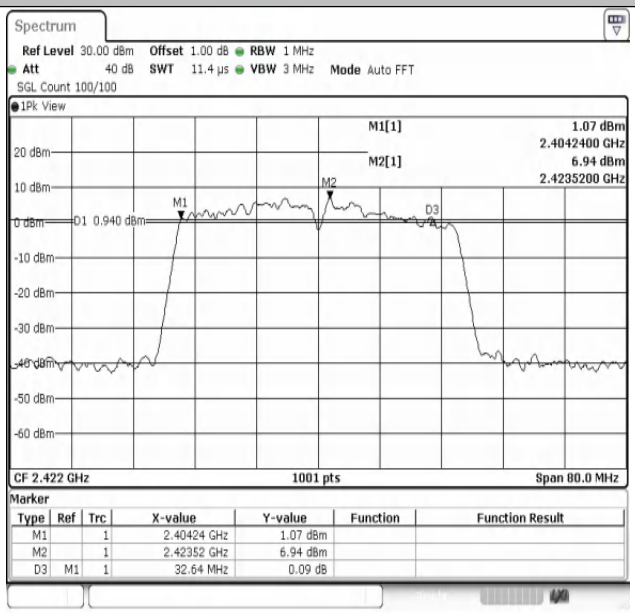
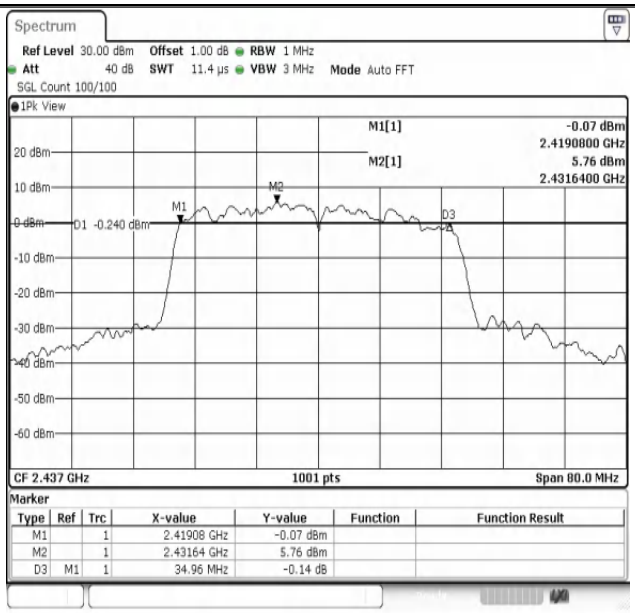
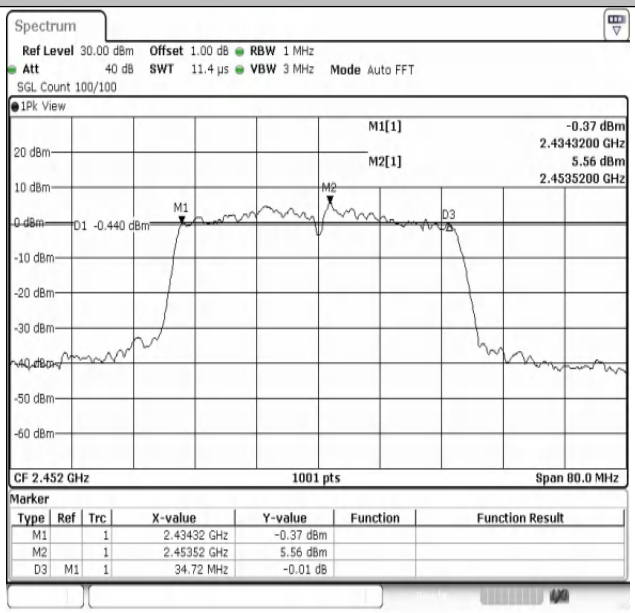


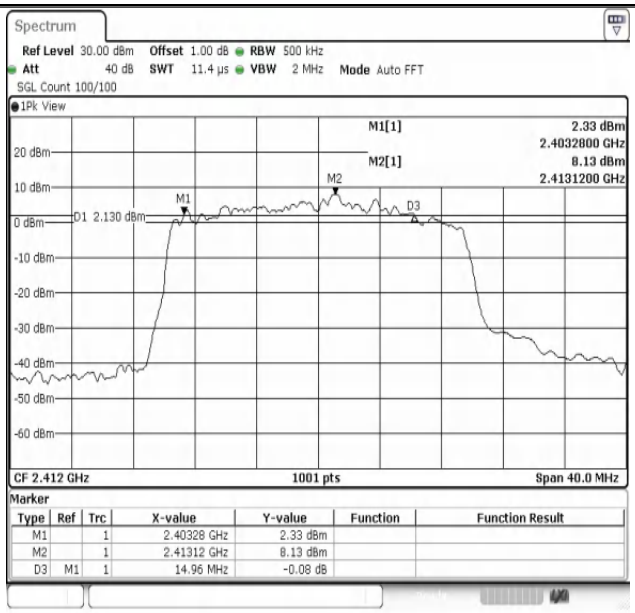
11N40SISO-Ant1-2422-PASS



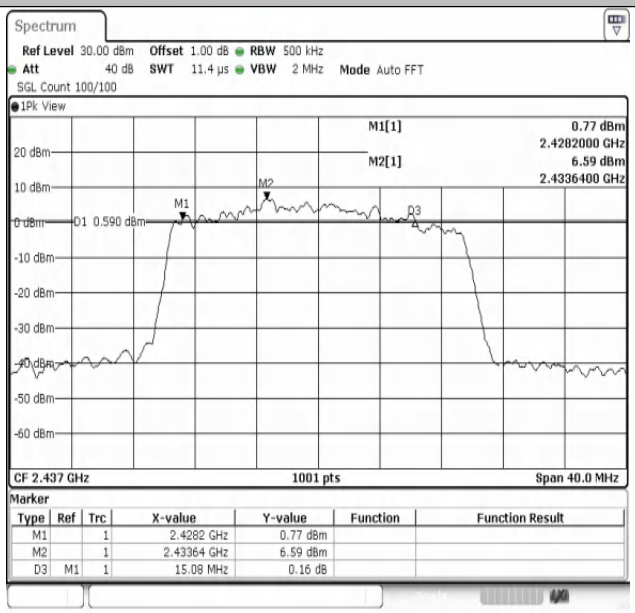
11N40SISO-Ant1-2437-PASS



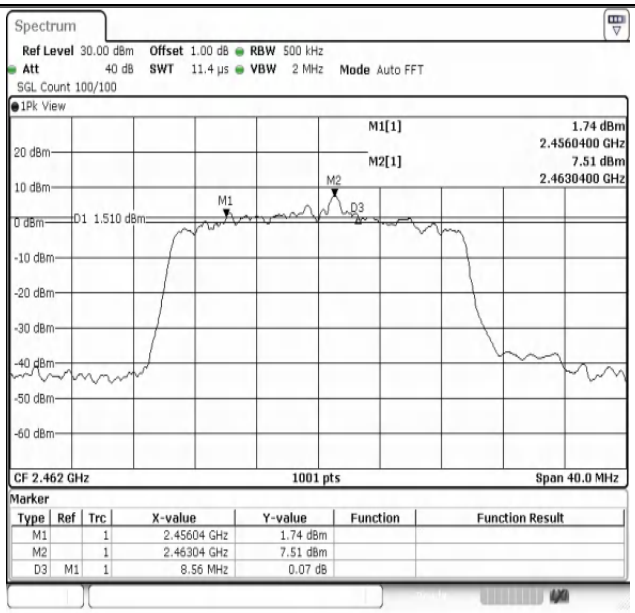
11N40SISO-Ant1-2452-PASS



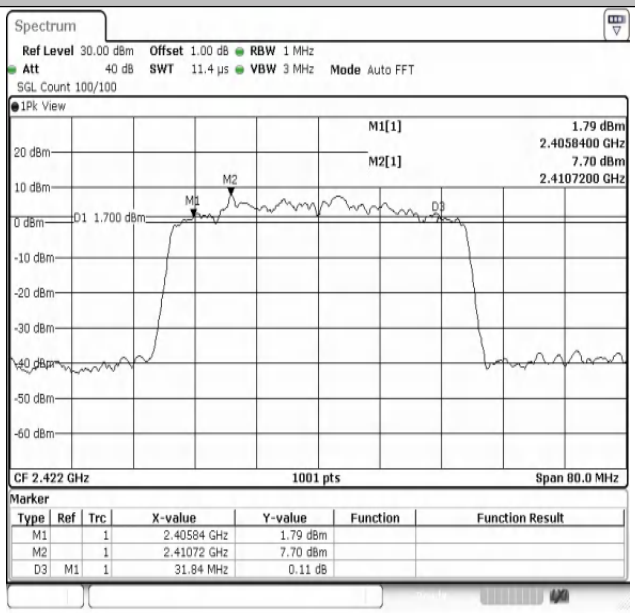
11AX20SISO-Ant1-2412-PASS



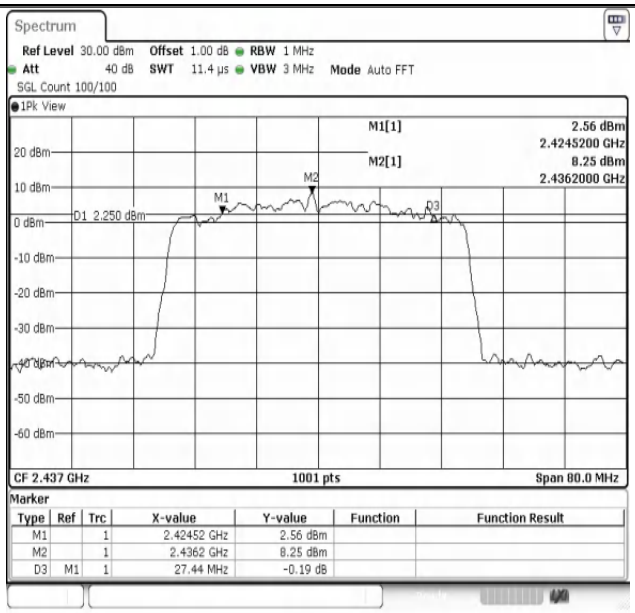
11AX20SISO-Ant1-2437-PASS



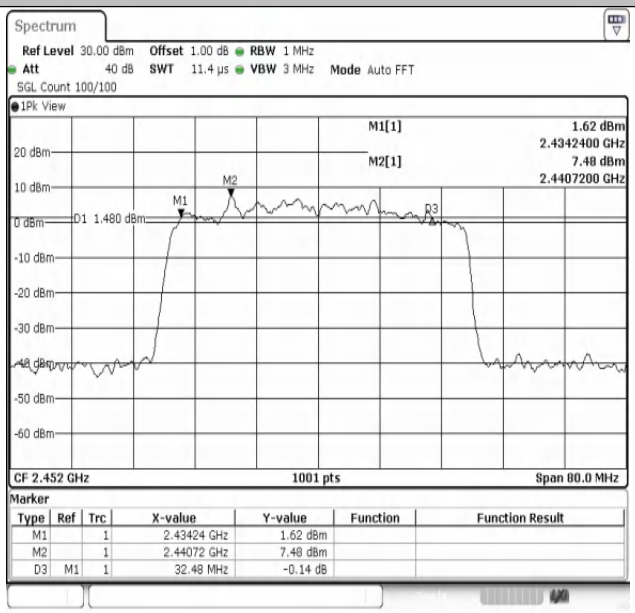
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



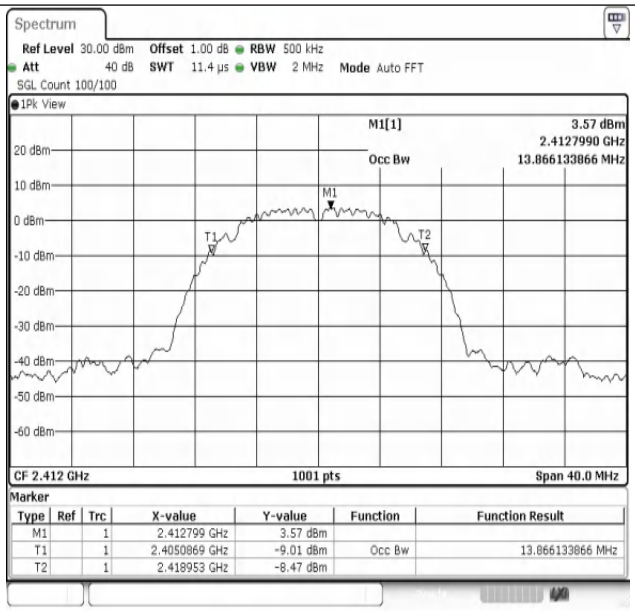
11AX40SISO-Ant1-2452-PASS

Appendix B: 99% Occupied Bandwidth

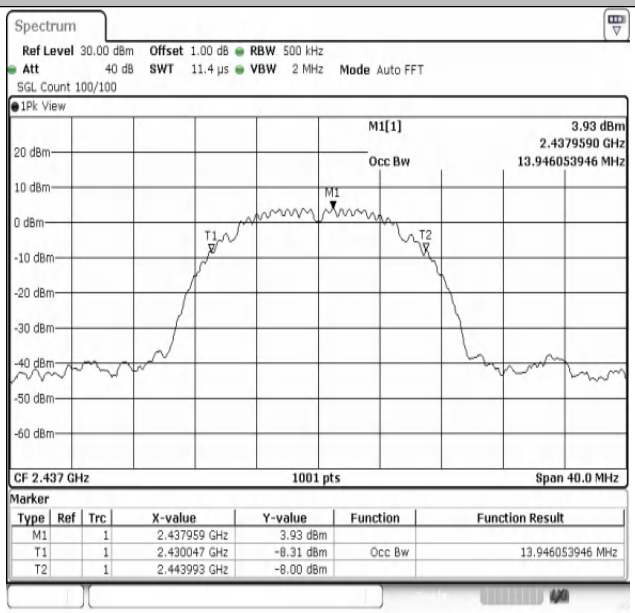
Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.866	2405.0869	2418.9530	---	---
11B	Ant1	2437	13.946	2430.0470	2443.9930	---	---
11B	Ant1	2462	13.946	2455.0470	2468.9930	---	---
11G	Ant1	2412	16.144	2403.9680	2420.1119	---	---
11G	Ant1	2437	16.184	2428.8881	2445.0719	---	---
11G	Ant1	2462	16.264	2453.8881	2470.1518	---	---
11N20SISO	Ant1	2412	17.303	2403.3287	2420.6314	---	---
11N20SISO	Ant1	2437	17.223	2428.3287	2445.5514	---	---
11N20SISO	Ant1	2462	17.343	2453.3287	2470.6713	---	---
11N40SISO	Ant1	2422	35.644	2404.0180	2439.6623	---	---
11N40SISO	Ant1	2437	35.884	2418.8581	2454.7423	---	---
11N40SISO	Ant1	2452	35.884	2434.0180	2469.9021	---	---
11AX20SISO	Ant1	2412	18.621	2402.6094	2421.2308	---	---
11AX20SISO	Ant1	2437	18.581	2427.6094	2446.1908	---	---
11AX20SISO	Ant1	2462	18.581	2452.6893	2471.2707	---	---
11AX40SISO	Ant1	2422	37.323	2403.2987	2440.6214	---	---
11AX40SISO	Ant1	2437	37.243	2418.3786	2455.6214	---	---
11AX40SISO	Ant1	2452	37.243	2433.2987	2470.5415	---	---

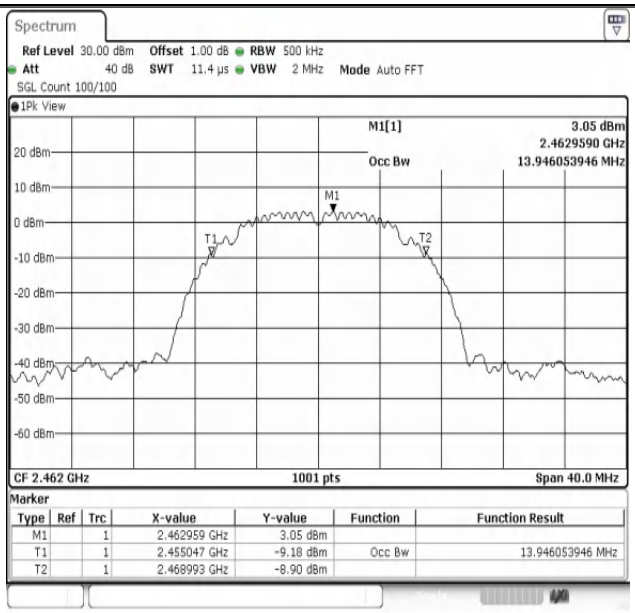
Test Graphs



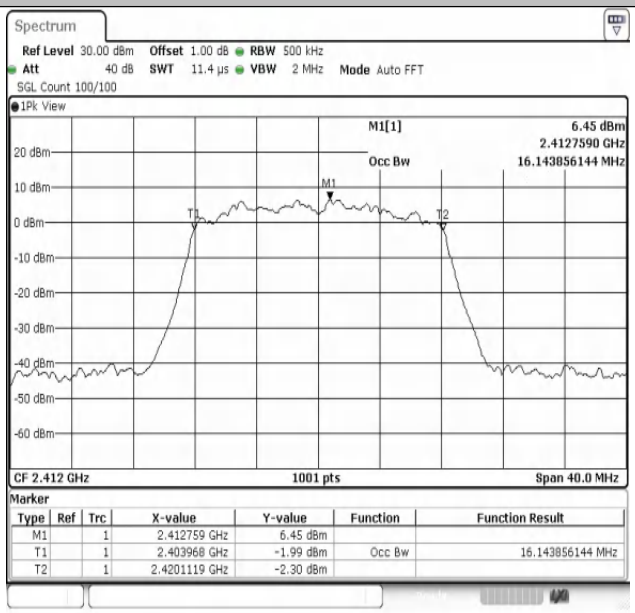
11B-Ant1-2412



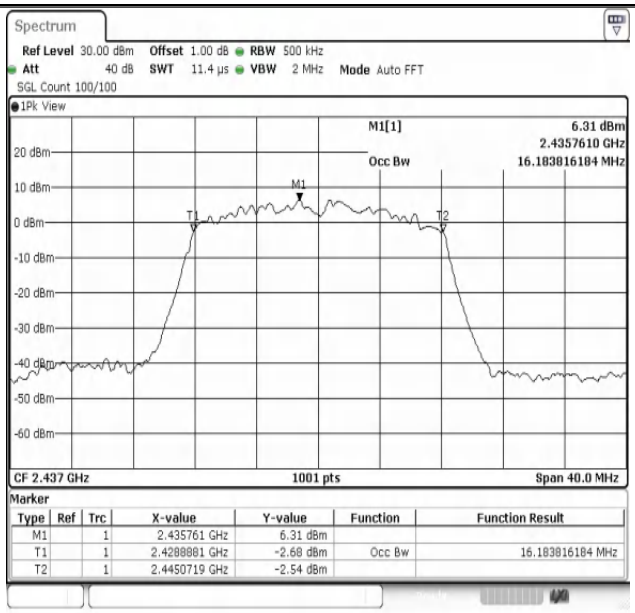
11B-Ant1-2437



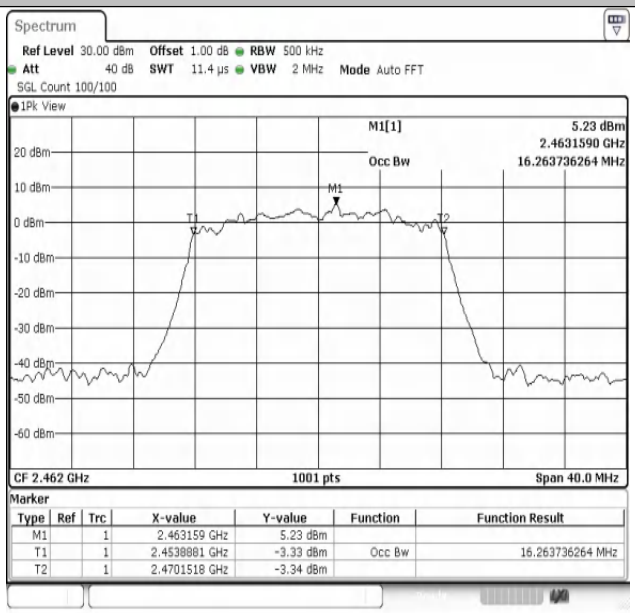
11B-Ant1-2462



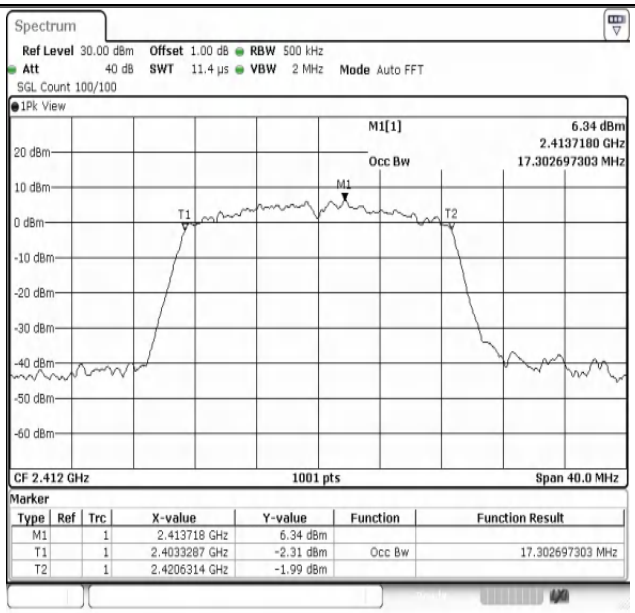
11G-Ant1-2412



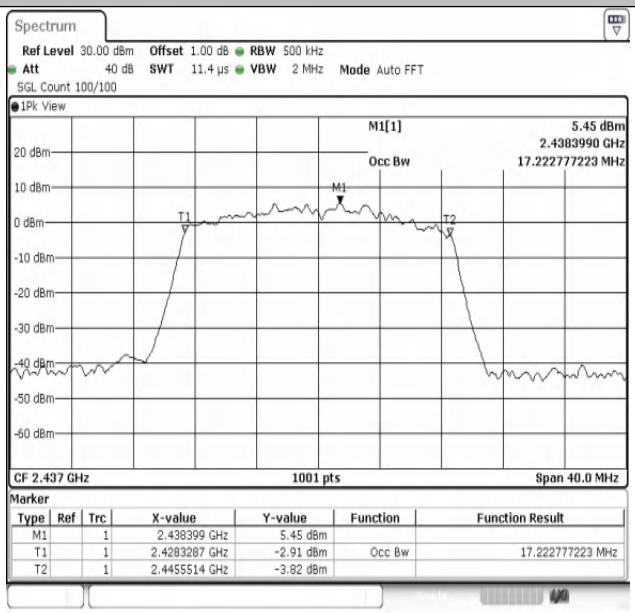
11G-Ant1-2437



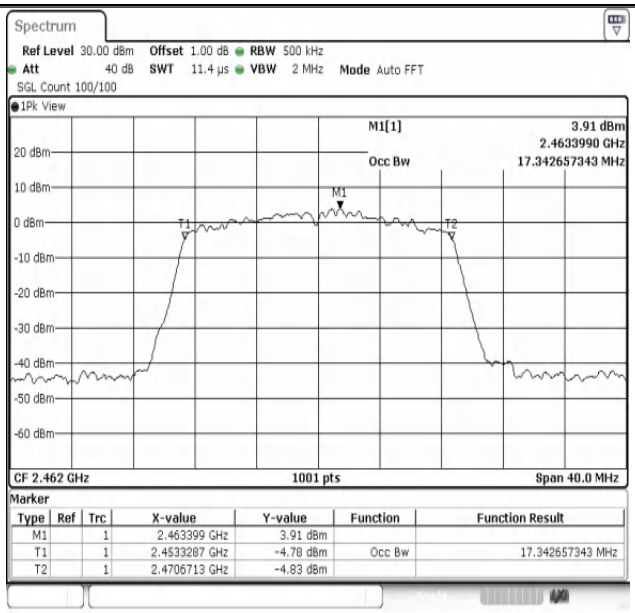
11G-Ant1-2462



11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



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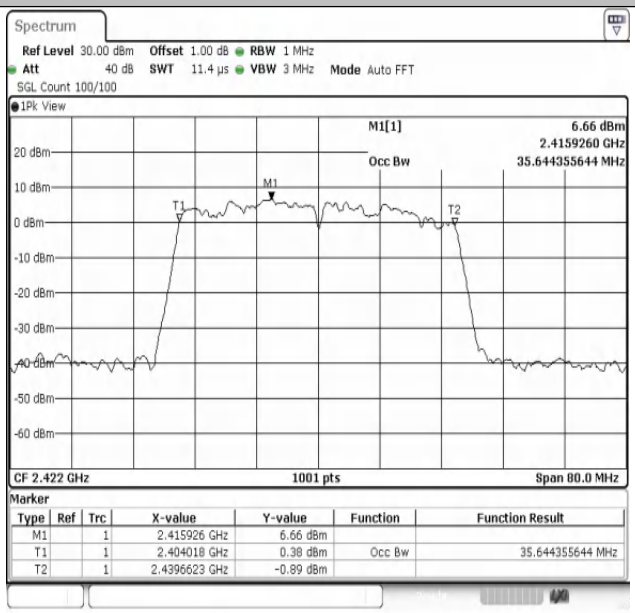

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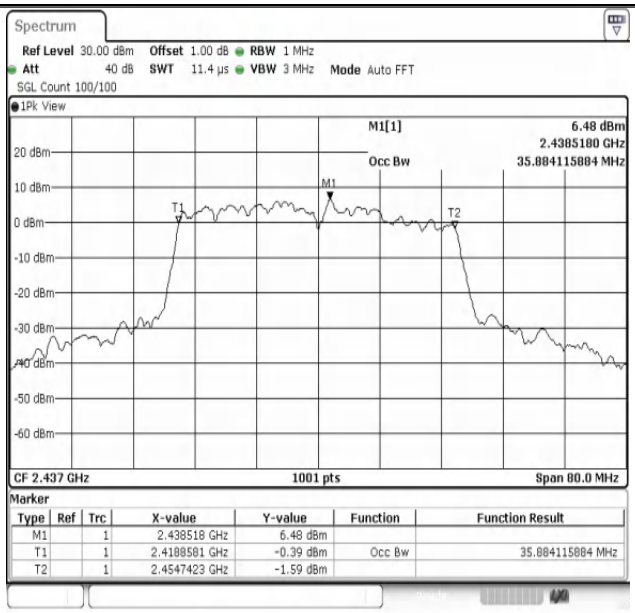
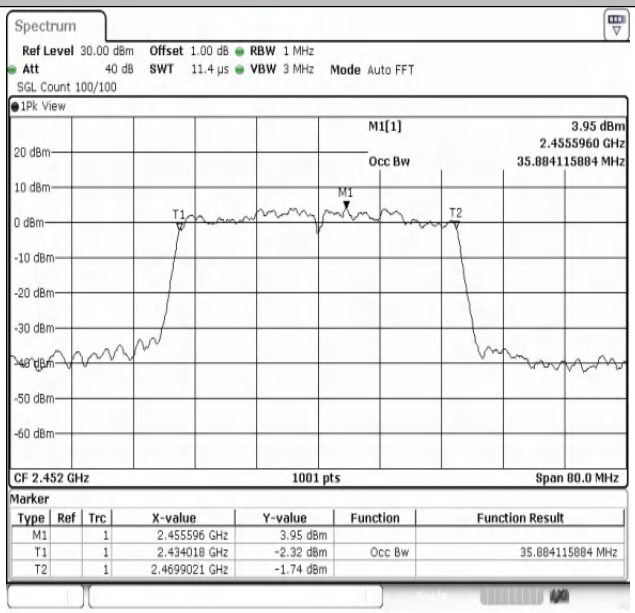


11N40SISO-Ant1-2437



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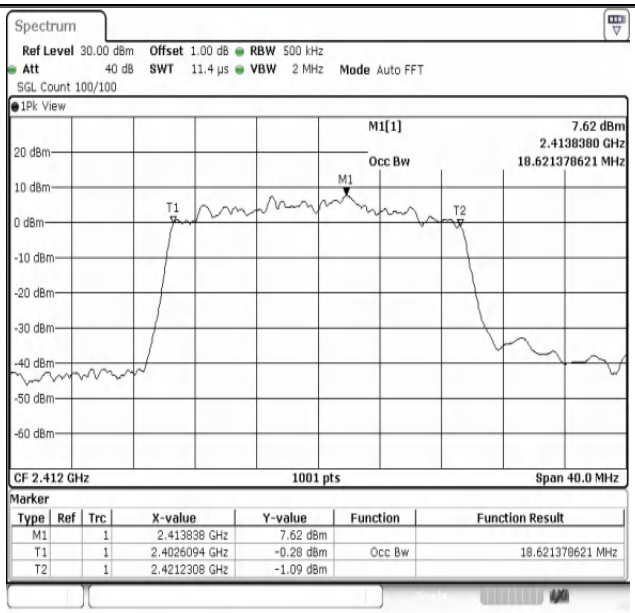
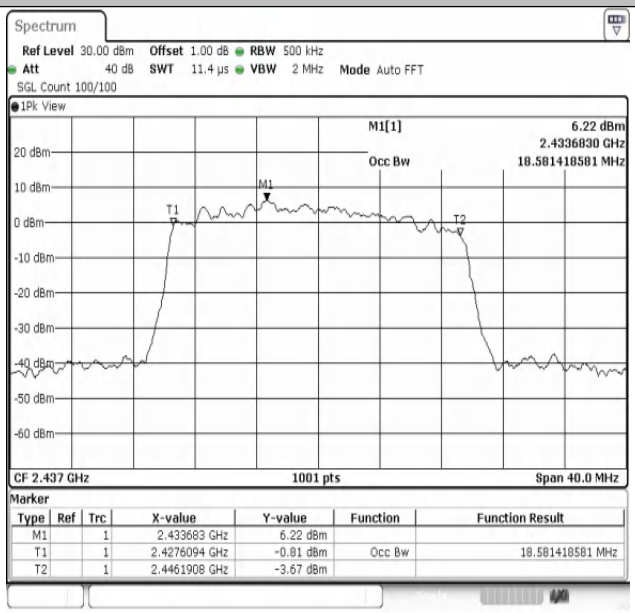
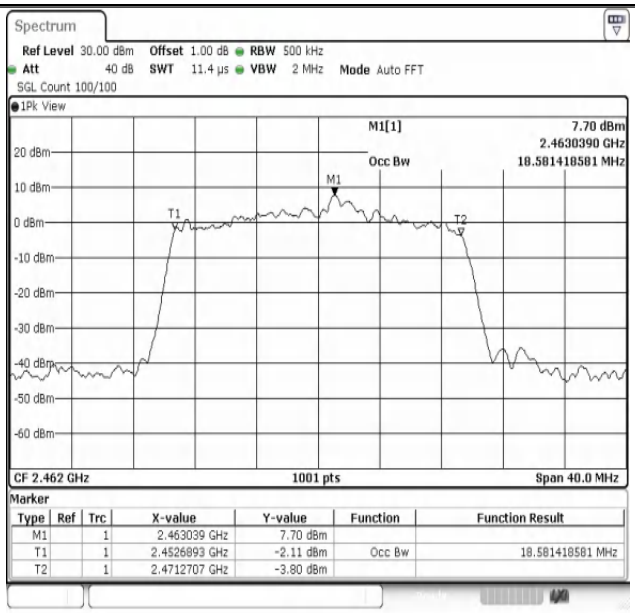


11AX20SISO-Ant1-2412



11AX20SISO-Ant1-2437



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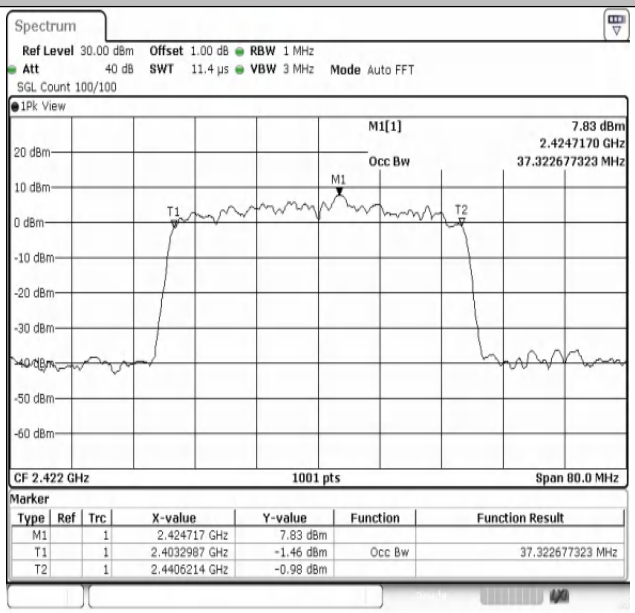
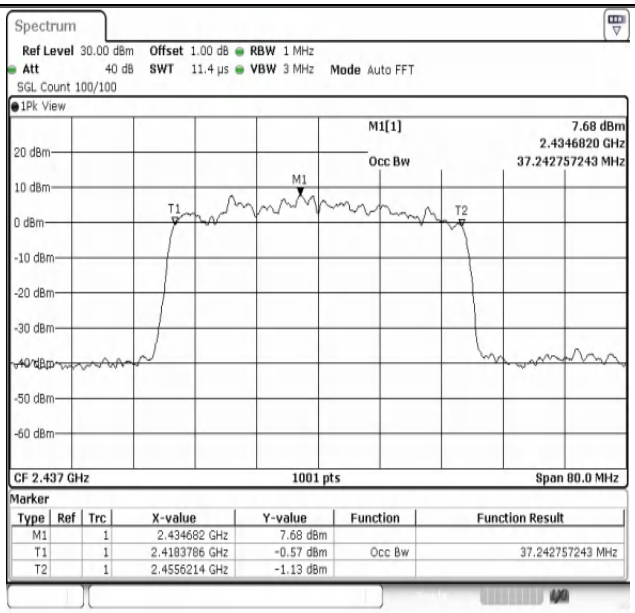
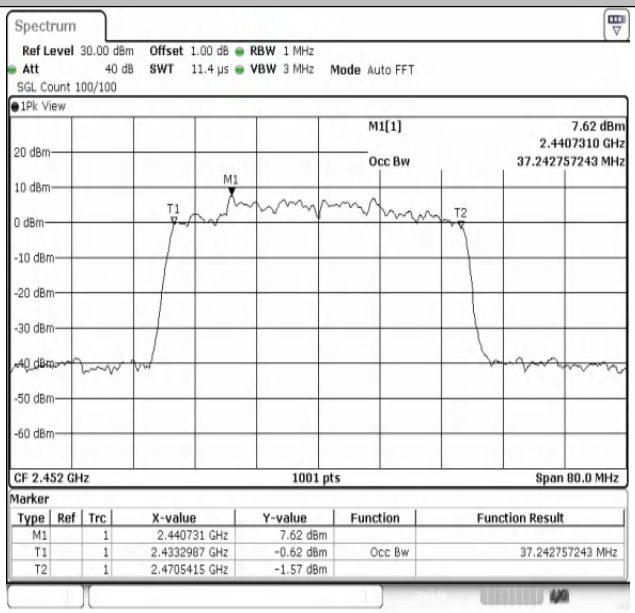


11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

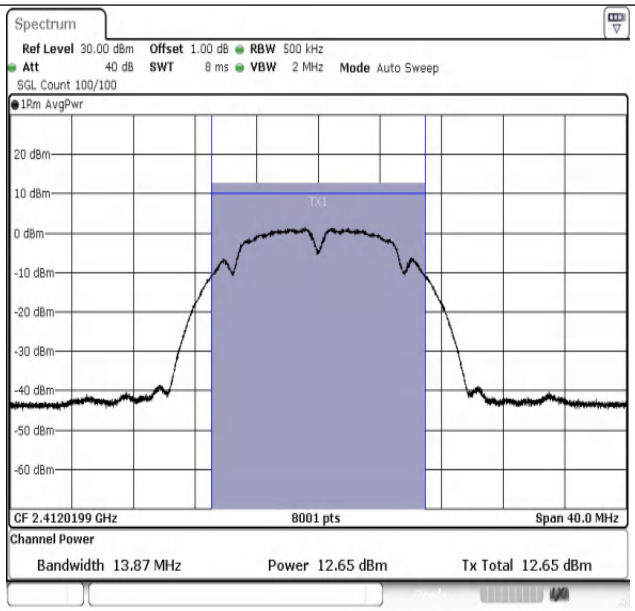
Appendix C: Maximum conducted output power

Test Result Average

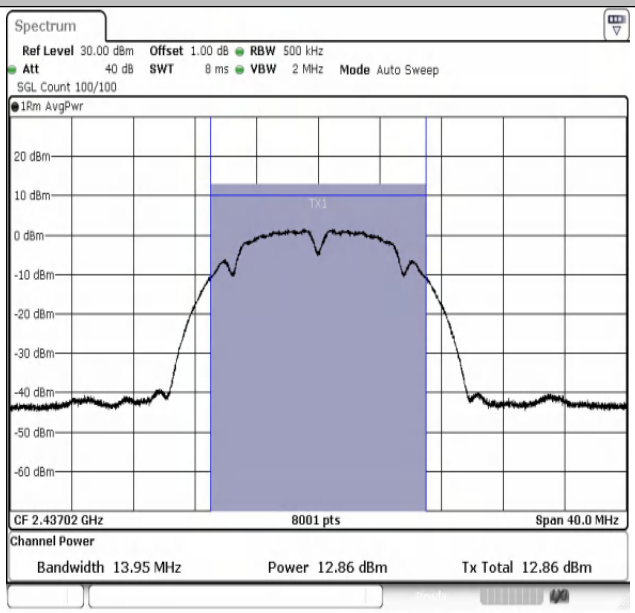
Test Mode	Antenna	Frequency [MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	NA	12.65	100.00	0.00	12.65	≤30.00	PASS
11B	Ant1	2437	NA	12.86	100.00	0.00	**12.86**	≤30.00	PASS
11B	Ant1	2462	NA	12.19	100.00	0.00	12.19	≤30.00	PASS
11G	Ant1	2412	NA	12.41	100.00	0.00	12.41	≤30.00	PASS
11G	Ant1	2437	NA	11.78	100.00	0.00	11.78	≤30.00	PASS
11G	Ant1	2462	NA	10.50	100.00	0.00	10.50	≤30.00	PASS
11N20SISO	Ant1	2412	NA	12.58	100.00	0.00	12.58	≤30.00	PASS
11N20SISO	Ant1	2437	NA	11.60	100.00	0.00	11.60	≤30.00	PASS
11N20SISO	Ant1	2462	NA	10.36	100.00	0.00	10.36	≤30.00	PASS
11N40SISO	Ant1	2422	NA	12.44	100.00	0.00	12.44	≤30.00	PASS
11N40SISO	Ant1	2437	NA	11.70	100.00	0.00	11.70	≤30.00	PASS
11N40SISO	Ant1	2452	NA	10.69	100.00	0.00	10.69	≤30.00	PASS
11AX20SISO	Ant1	2412	NA	12.52	100.00	0.00	12.52	≤30.00	PASS
11AX20SISO	Ant1	2437	NA	11.35	100.00	0.00	11.35	≤30.00	PASS
11AX20SISO	Ant1	2462	NA	10.21	100.00	0.00	10.21	≤30.00	PASS
11AX40SISO	Ant1	2422	NA	12.36	100.00	0.00	12.36	≤30.00	PASS
11AX40SISO	Ant1	2437	NA	12.30	100.00	0.00	12.30	≤30.00	PASS
11AX40SISO	Ant1	2452	NA	11.90	100.00	0.00	11.90	≤30.00	PASS

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

Test Graphs Average



11B-Ant1-2412-PASS



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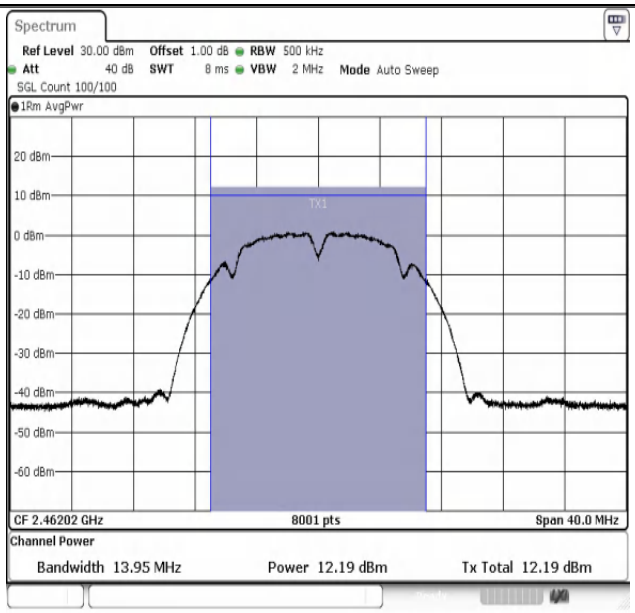
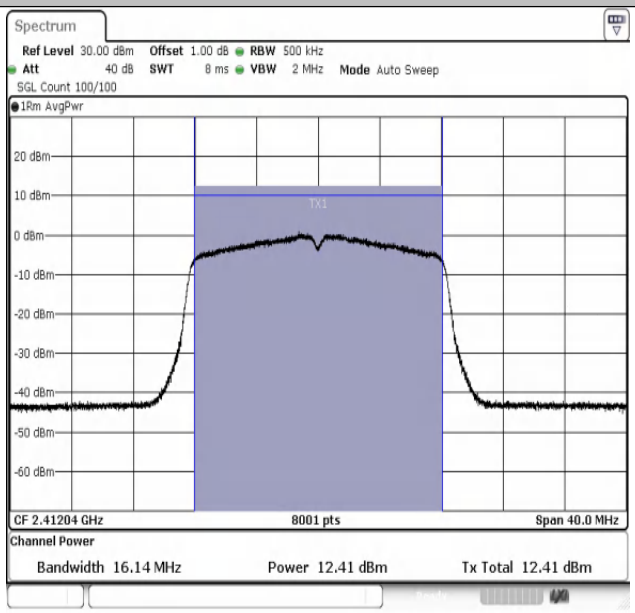
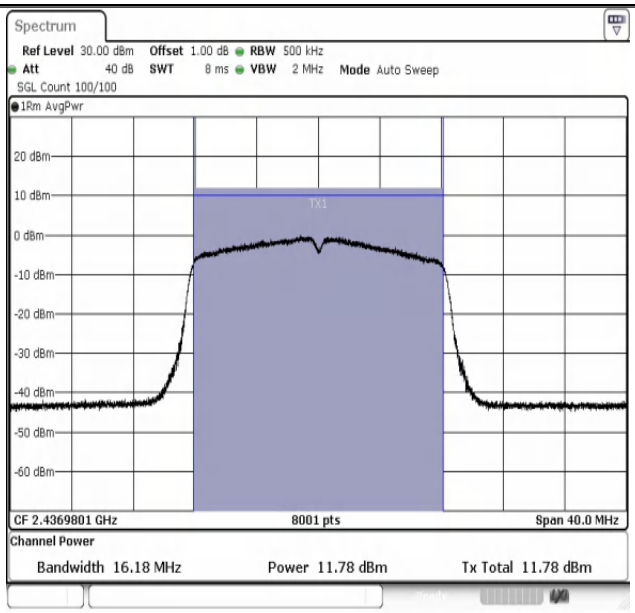


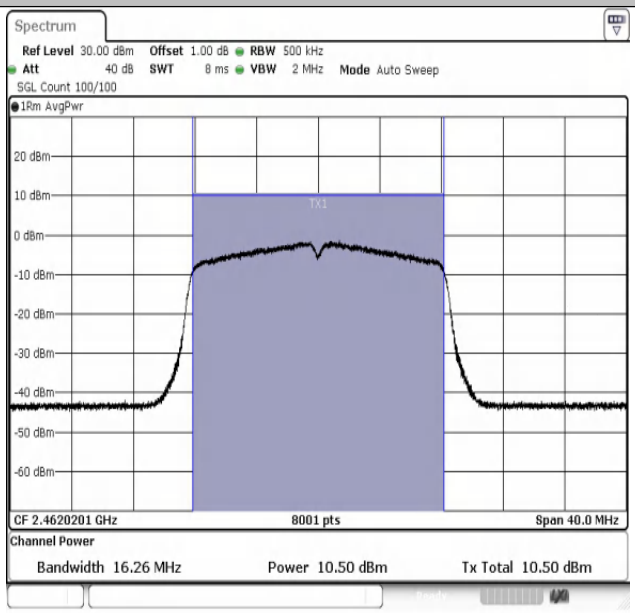
11B-Ant1-2462-PASS



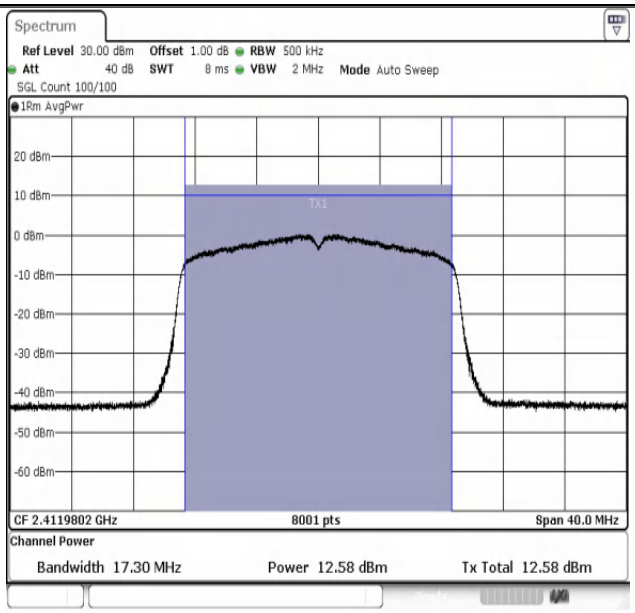
11G-Ant1-2412-PASS



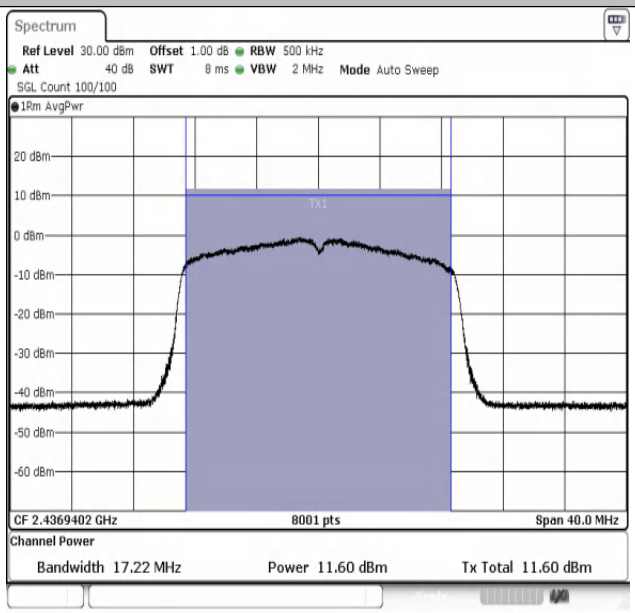
11G-Ant1-2437-PASS



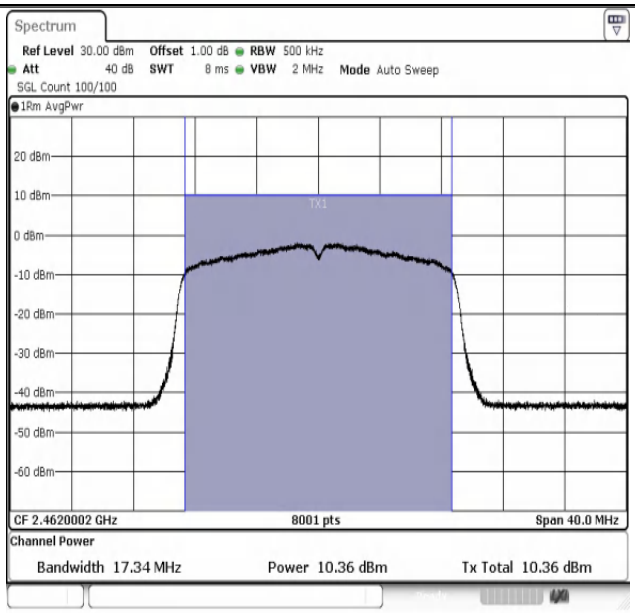
11G-Ant1-2462-PASS



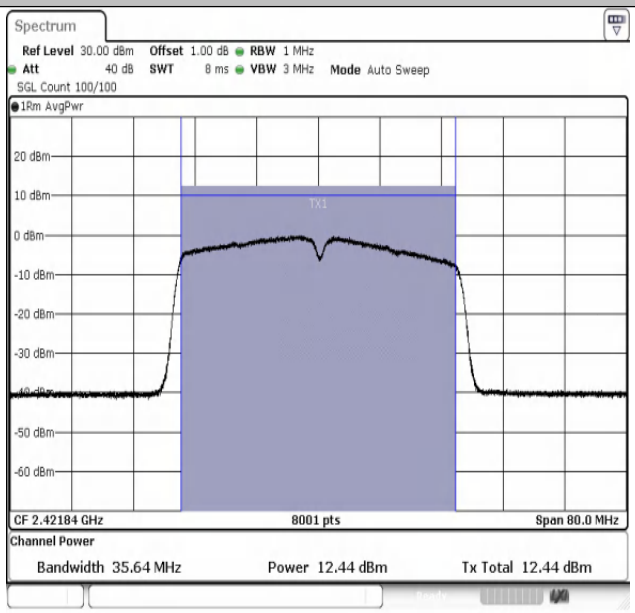
11N20SISO-Ant1-2412-PASS



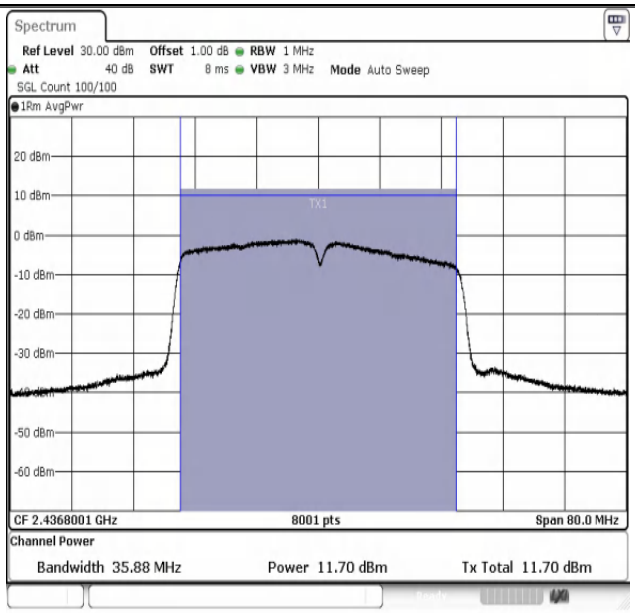
11N20SISO-Ant1-2437-PASS



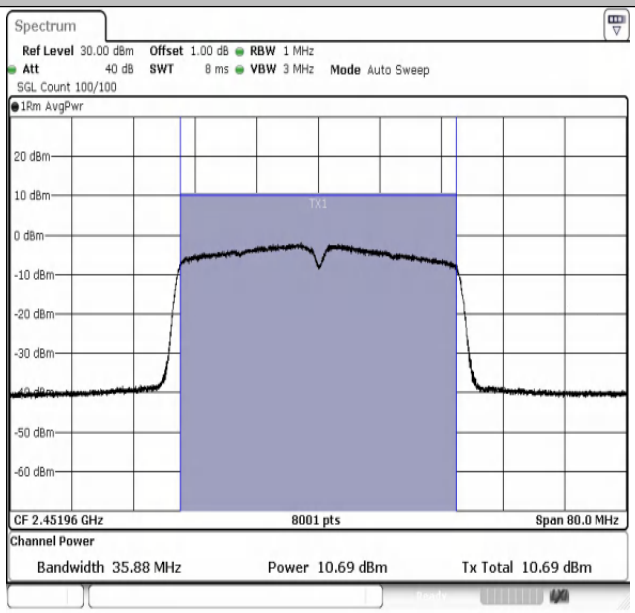
11N20SISO-Ant1-2462-PASS



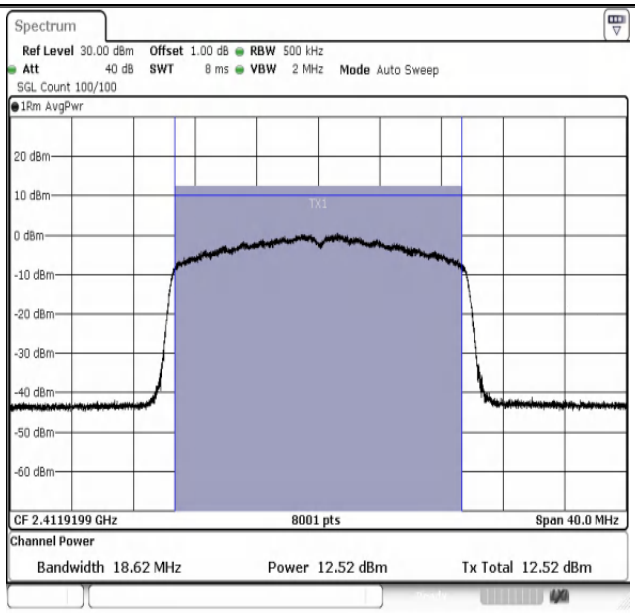
11N40SISO-Ant1-2422-PASS



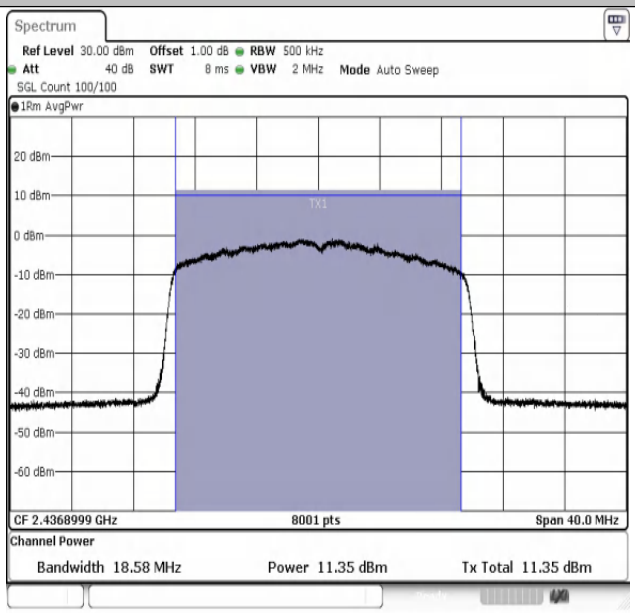
11N40SISO-Ant1-2437-PASS



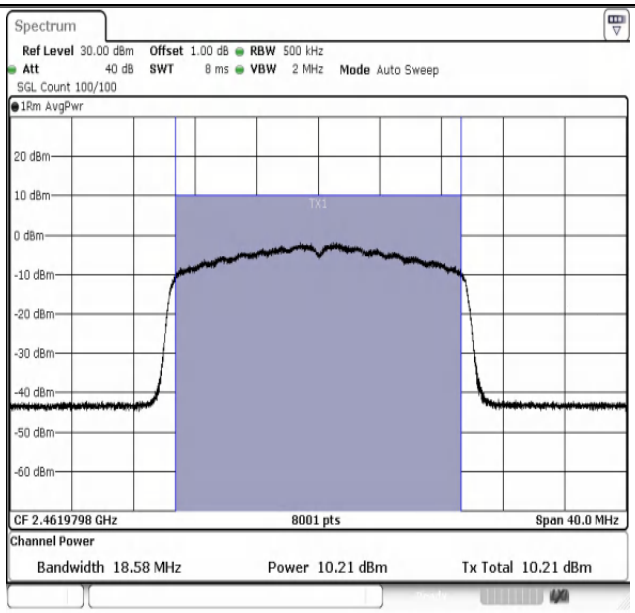
11N40SISO-Ant1-2452-PASS



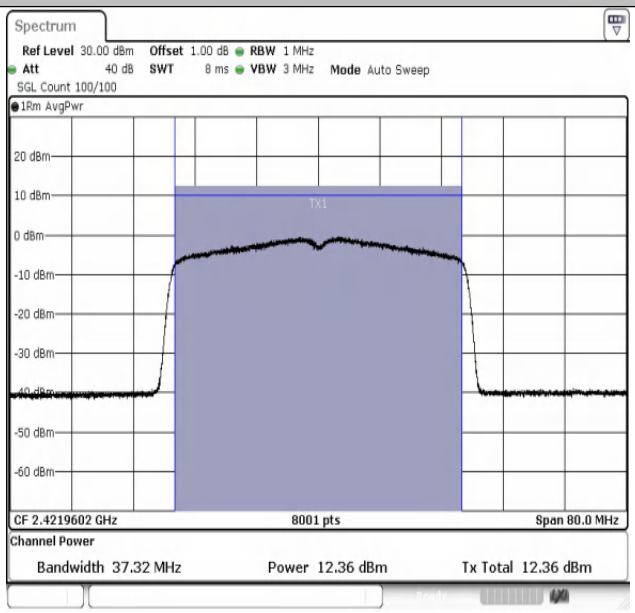
11AX20SISO-Ant1-2412-PASS



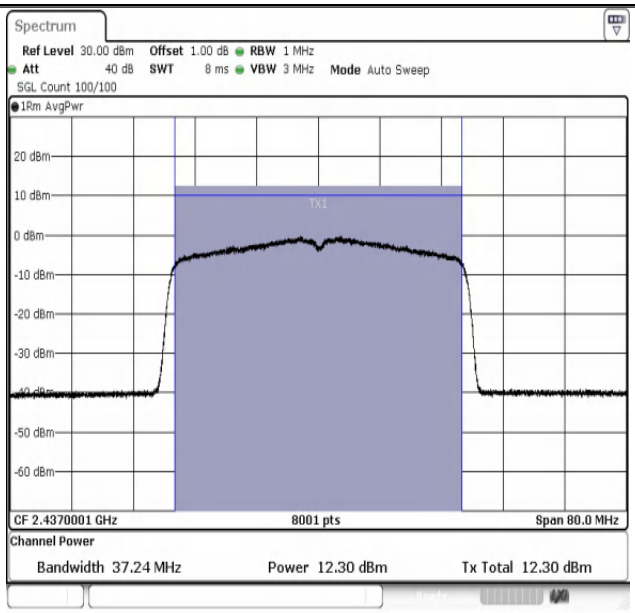
11AX20SISO-Ant1-2437-PASS



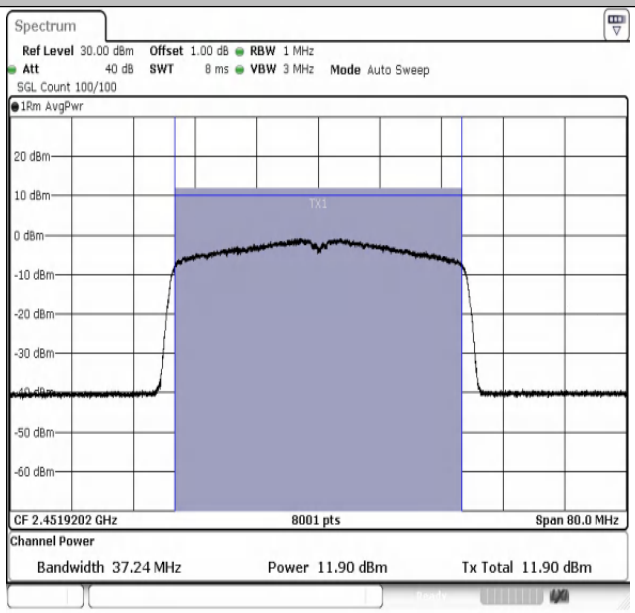
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



11AX40SISO-Ant1-2452-PASS

Appendix D: Maximum power spectral density

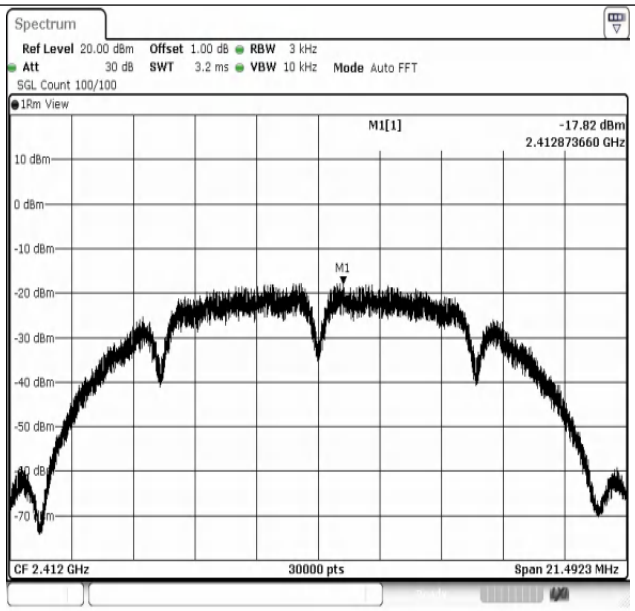
Test Result

Test Mode	Antenna	Frequency[MHz]	Reading Result[dBm/3kHz]	DC Factor [dB]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.82	0.00	-17.82	≤8.00	PASS
11B	Ant1	2437	-17.53	0.00	-17.53	≤8.00	PASS
11B	Ant1	2462	-18.24	0.00	-18.24	≤8.00	PASS
11G	Ant1	2412	-15.85	0.00	-15.85	≤8.00	PASS
11G	Ant1	2437	-16.09	0.00	-16.09	≤8.00	PASS
11G	Ant1	2462	-17.67	0.00	-17.67	≤8.00	PASS
11N20SISO	Ant1	2412	-13.84	0.00	-13.84	≤8.00	PASS
11N20SISO	Ant1	2437	-15.19	0.00	-15.19	≤8.00	PASS
11N20SISO	Ant1	2462	-15.68	0.00	-15.68	≤8.00	PASS
11N40SISO	Ant1	2422	-17.27	0.00	-17.27	≤8.00	PASS
11N40SISO	Ant1	2437	-17.55	0.00	-17.55	≤8.00	PASS
11N40SISO	Ant1	2452	-19.26	0.00	-19.26	≤8.00	PASS
11AX20SISO	Ant1	2412	-13.66	0.00	-13.66	≤8.00	PASS
11AX20SISO	Ant1	2437	-15.11	0.00	-15.11	≤8.00	PASS
11AX20SISO	Ant1	2462	-15.7	0.00	-15.70	≤8.00	PASS
11AX40SISO	Ant1	2422	-17.22	0.00	-17.22	≤8.00	PASS
11AX40SISO	Ant1	2437	-17.5	0.00	-17.50	≤8.00	PASS
11AX40SI	Ant1	2452	-17.26	0.00	-17.26	≤8.00	PAS

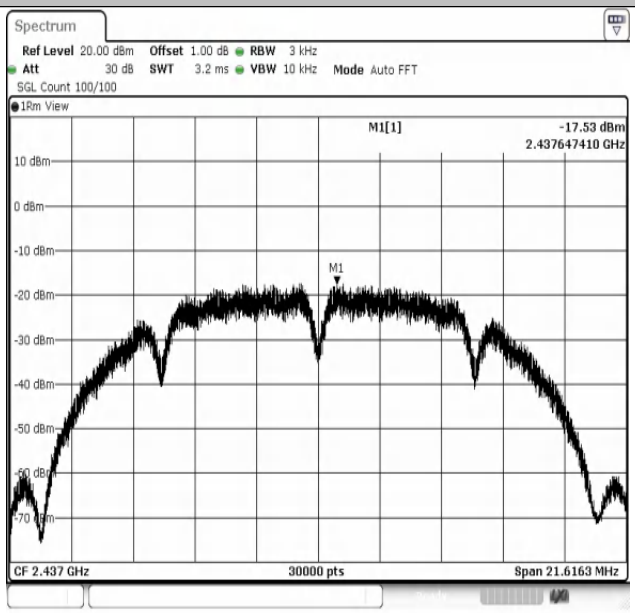
SO							S

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

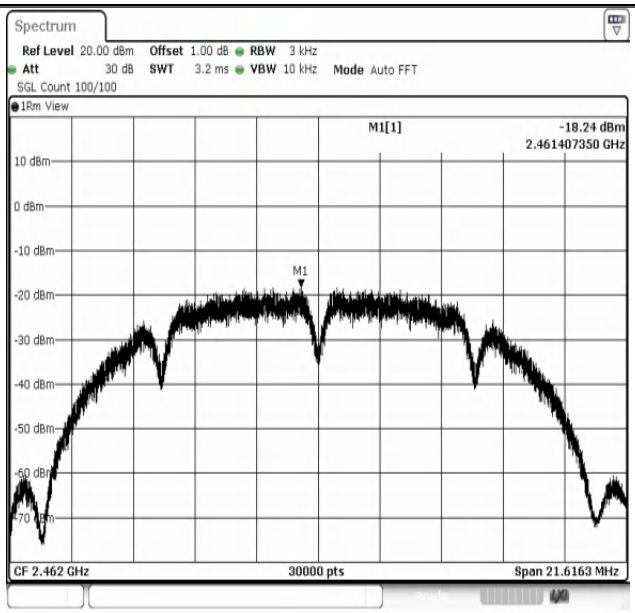
Test Graphs



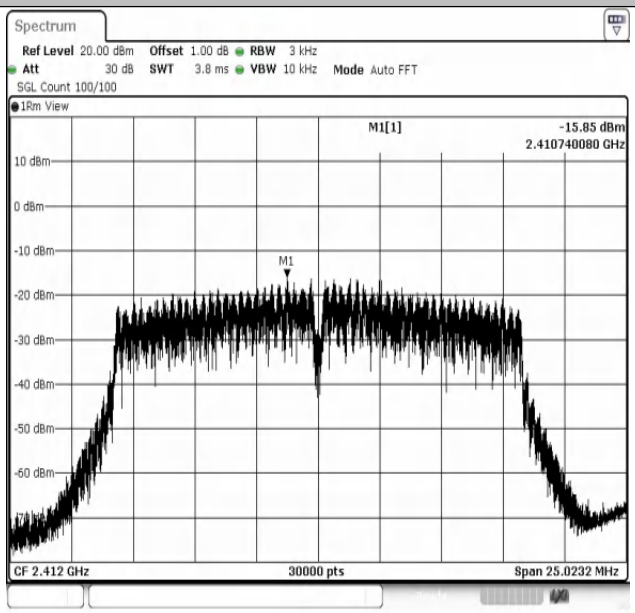
11B-Ant1-2412-PASS



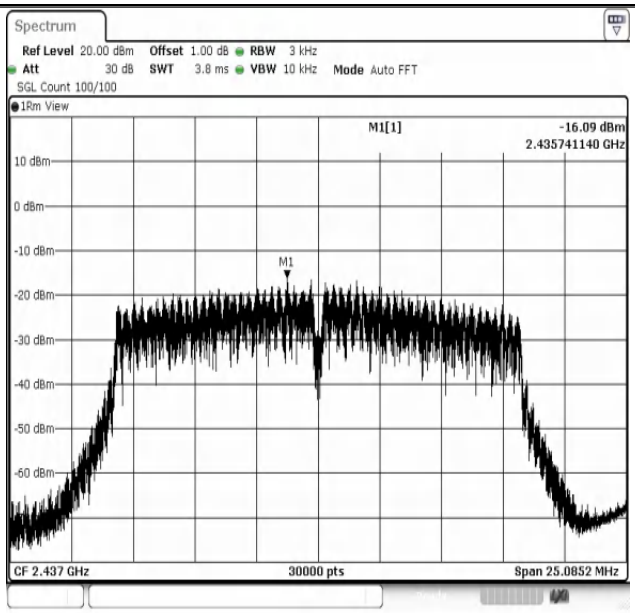
11B-Ant1-2437-PASS



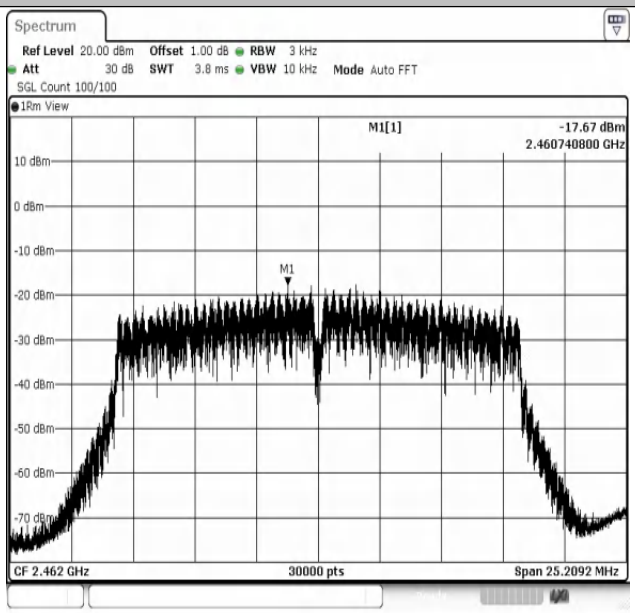
11B-Ant1-2462-PASS



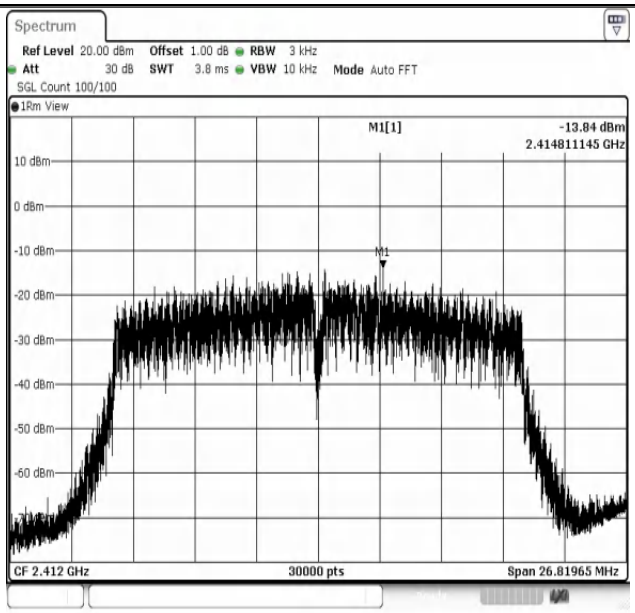
11G-Ant1-2412-PASS



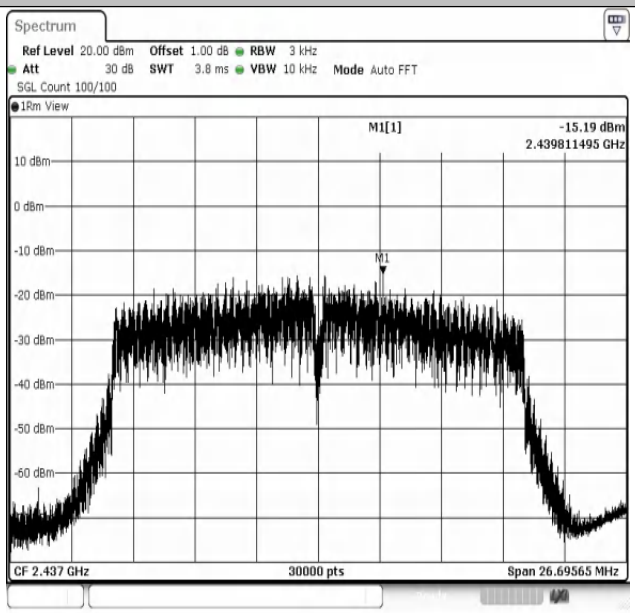
11G-Ant1-2437-PASS



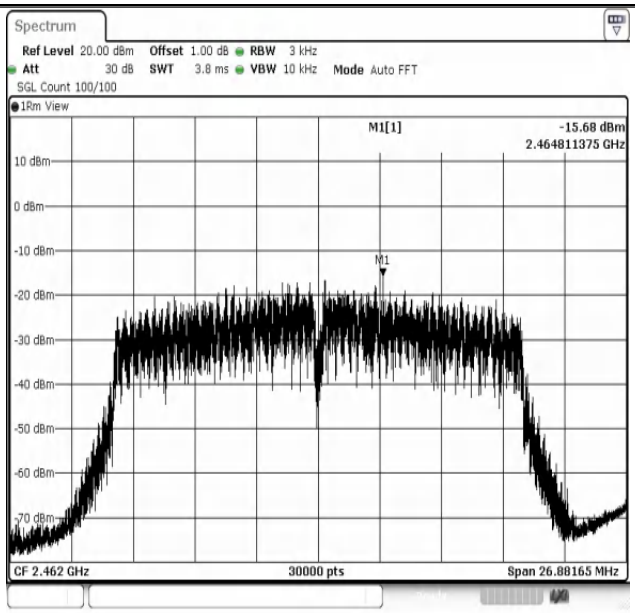
11G-Ant1-2462-PASS



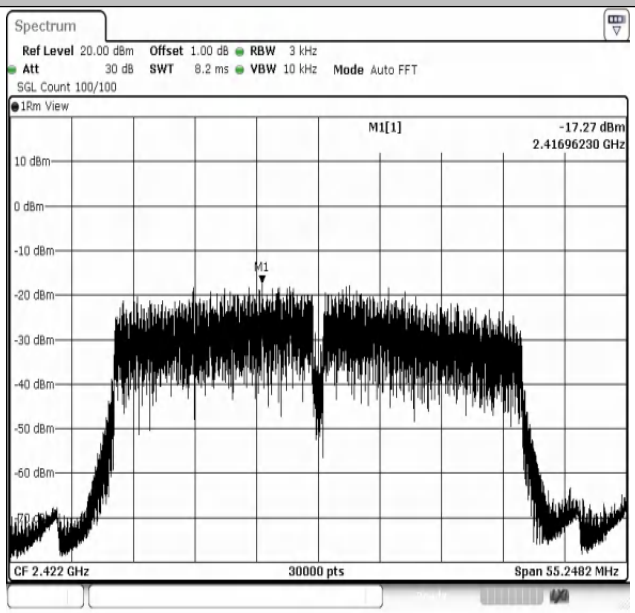
11N20SISO-Ant1-2412-PASS



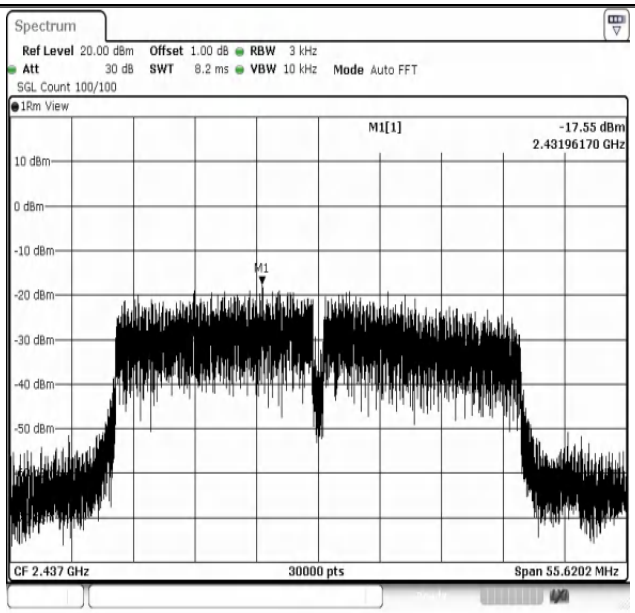
11N20SISO-Ant1-2437-PASS



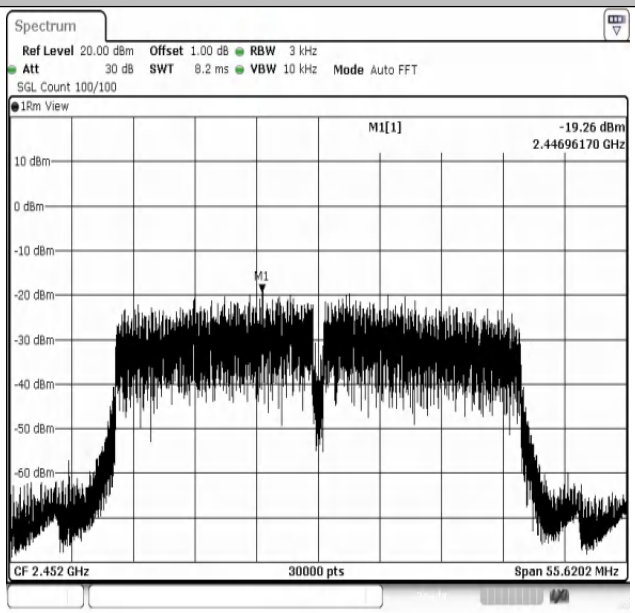
11N20SISO-Ant1-2462-PASS



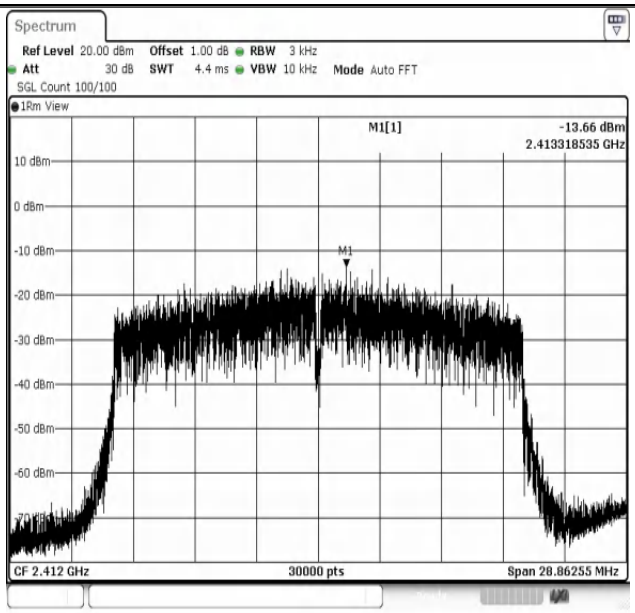
11N40SISO-Ant1-2422-PASS



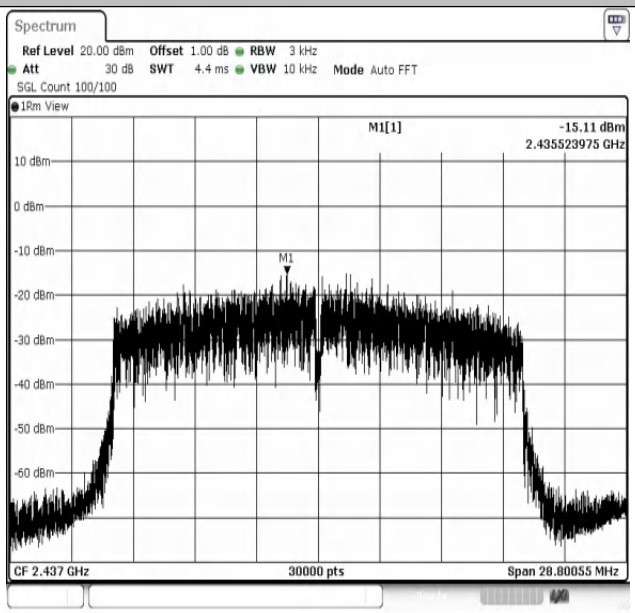
11N40SISO-Ant1-2437-PASS



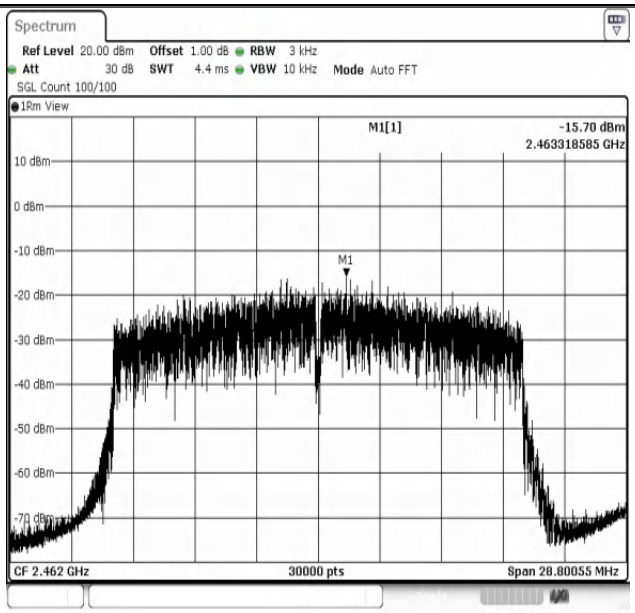
11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2437-PASS



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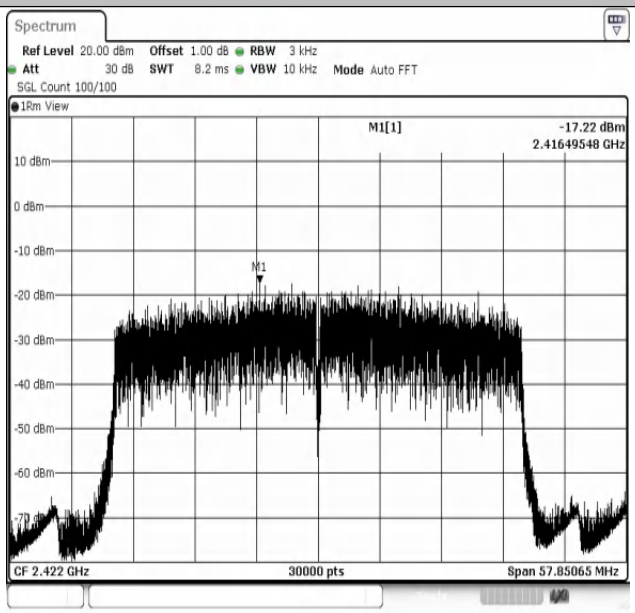
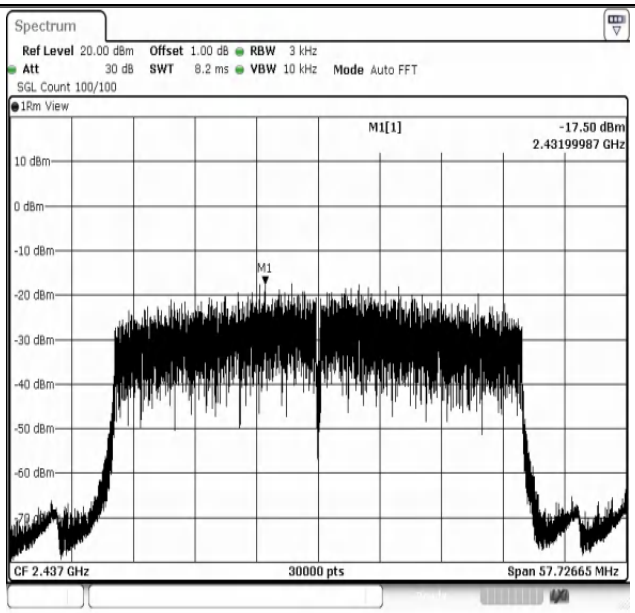
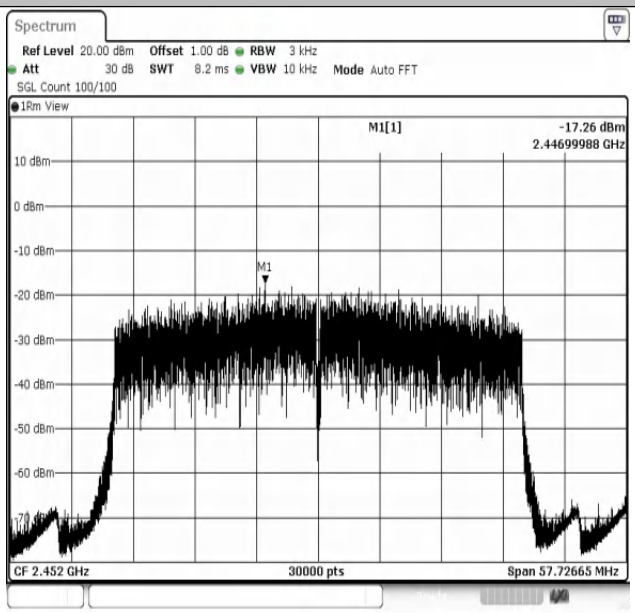


11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



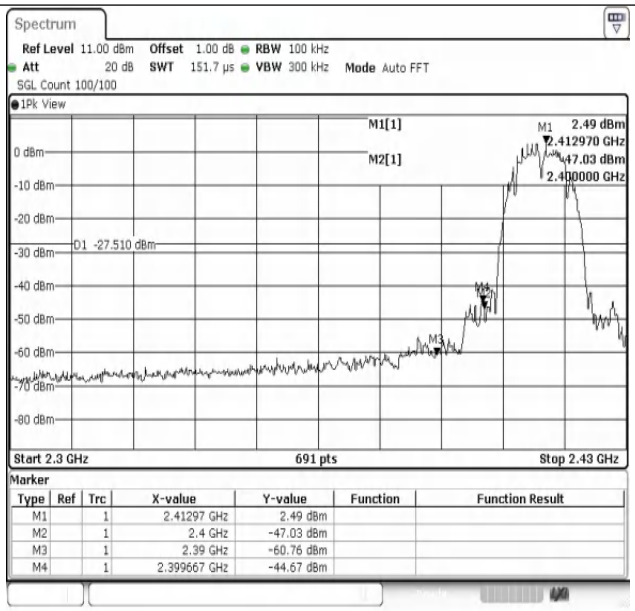
11AX40SISO-Ant1-2452-PASS

Appendix E: Conducted Band edge

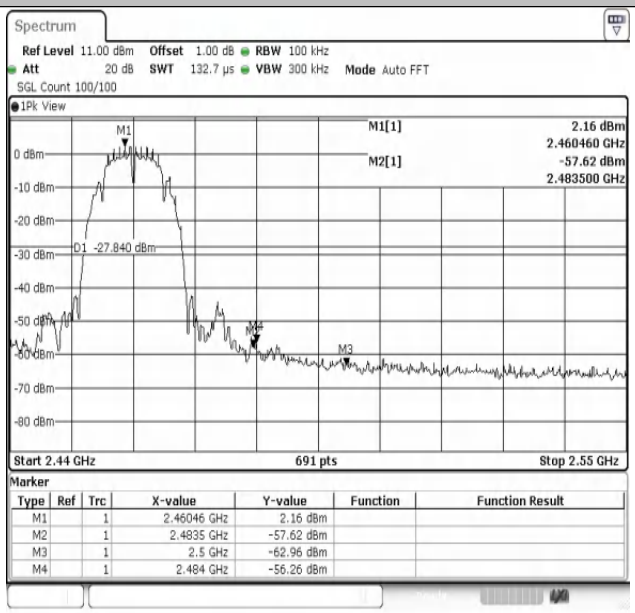
Test Result

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.49	-44.67	≤-27.51	PASS
11B	Ant1	High	2462	2.16	-56.26	≤-27.84	PASS
11G	Ant1	Low	2412	3.10	-48.71	≤-26.9	PASS
11G	Ant1	High	2462	-0.96	-53.25	≤-30.96	PASS
11N20SISO	Ant1	Low	2412	2.97	-49.48	≤-27.03	PASS
11N20SISO	Ant1	High	2462	-0.17	-55.59	≤-30.17	PASS
11N40SISO	Ant1	Low	2422	0.72	-46.12	≤-29.28	PASS
11N40SISO	Ant1	High	2452	-1.55	-52.02	≤-31.55	PASS
11AX20SISO	Ant1	Low	2412	2.72	-47.23	≤-27.28	PASS
11AX20SISO	Ant1	High	2462	1.31	-53.68	≤-28.69	PASS
11AX40SISO	Ant1	Low	2422	-0.28	-49.34	≤-30.28	PASS
11AX40SISO	Ant1	High	2452	-0.82	-48.55	≤-30.82	PASS

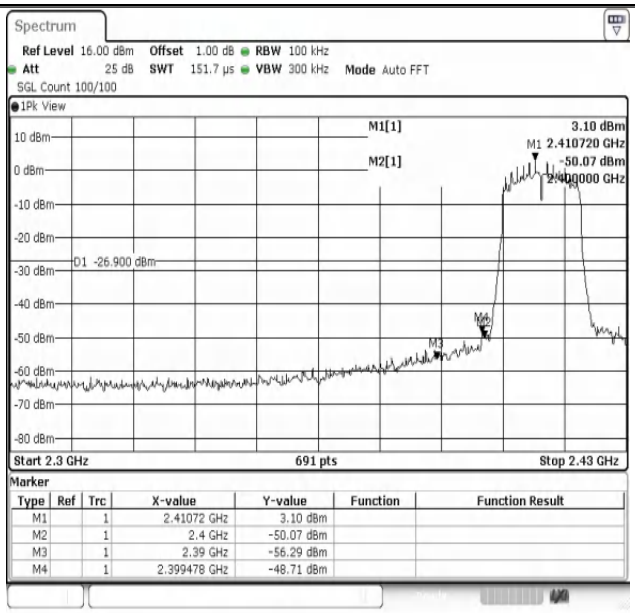
Test Graphs



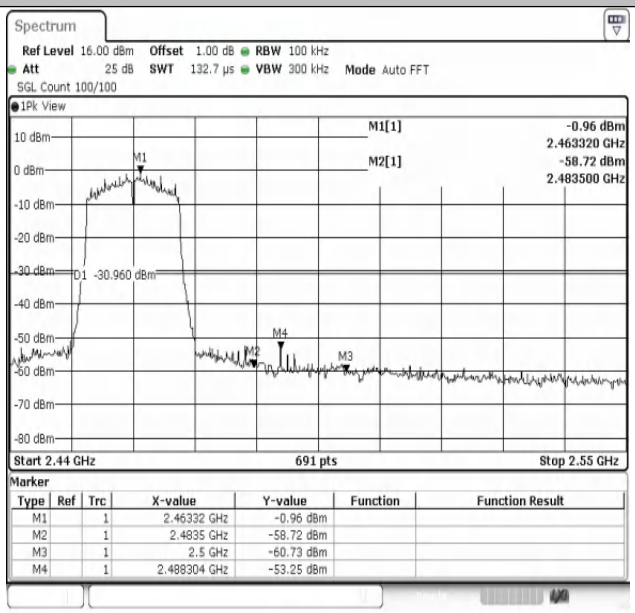
11B-Ant1-2412-PASS



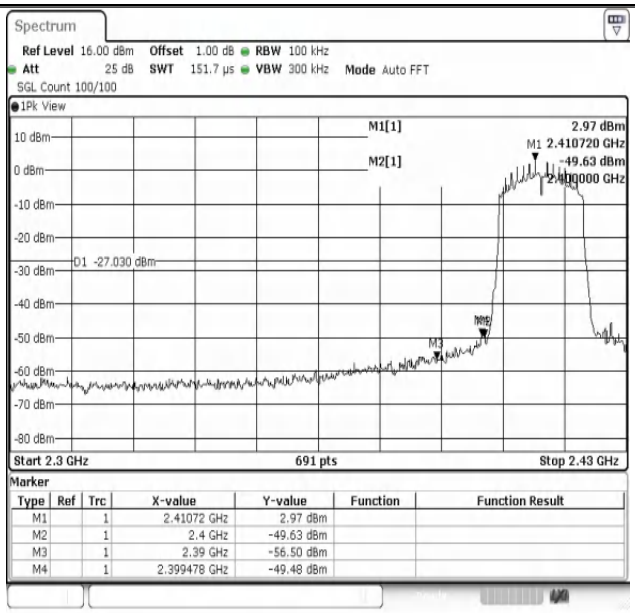
11B-Ant1-2462-PASS



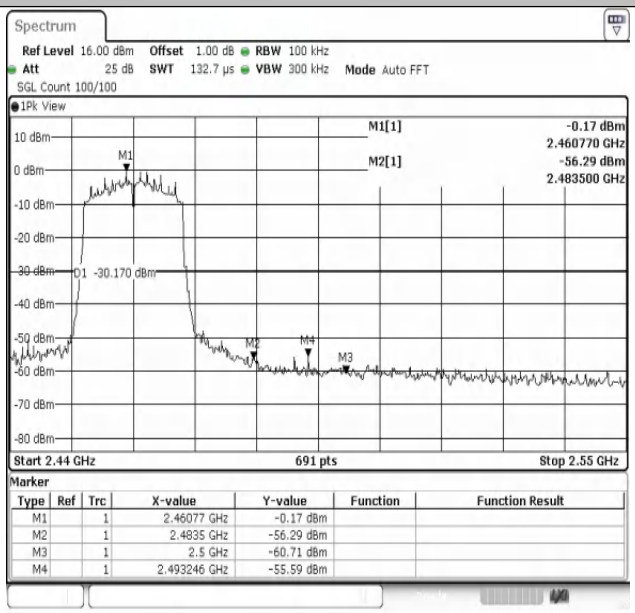
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



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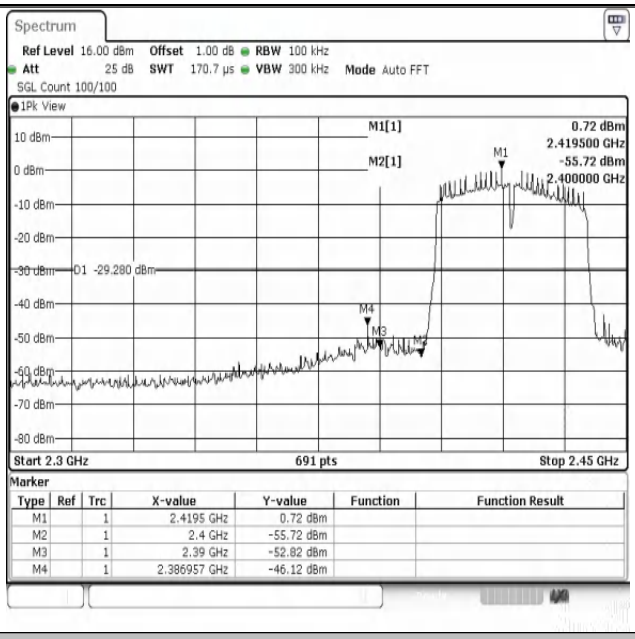
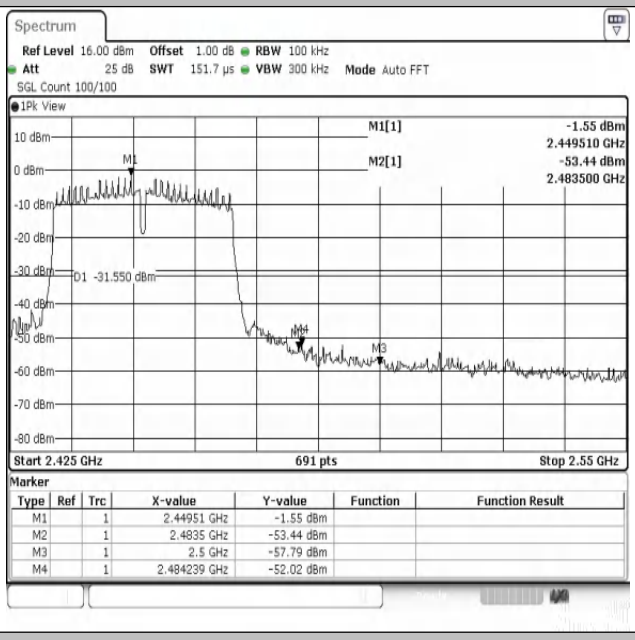
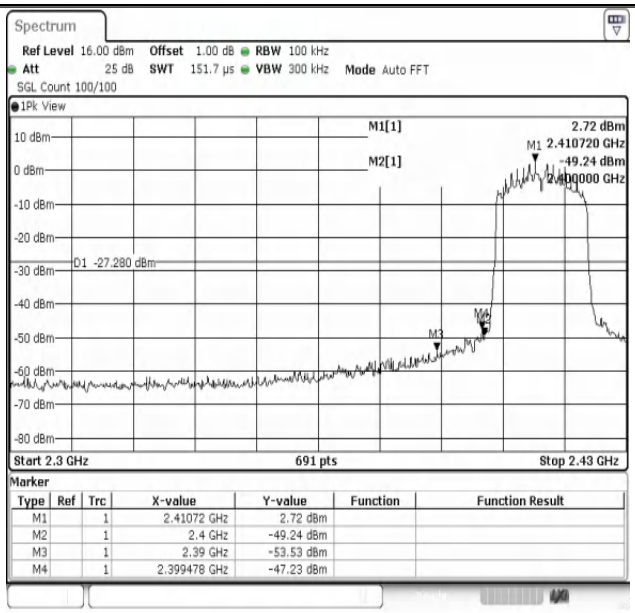


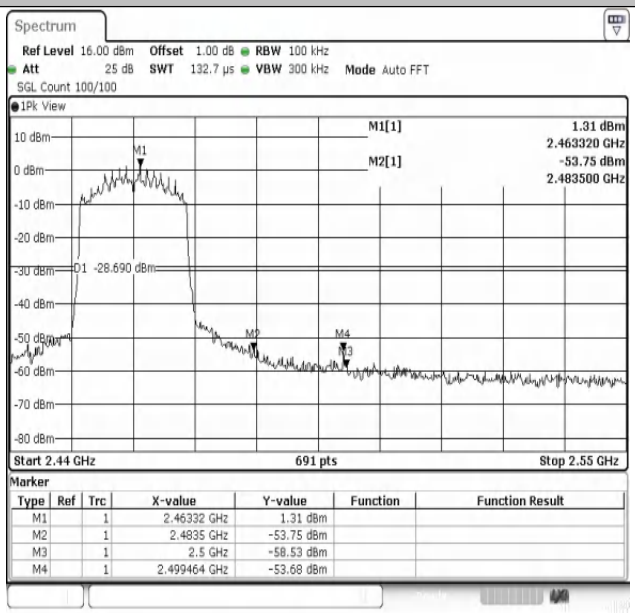
11N40SISO-Ant1-2422-PASS



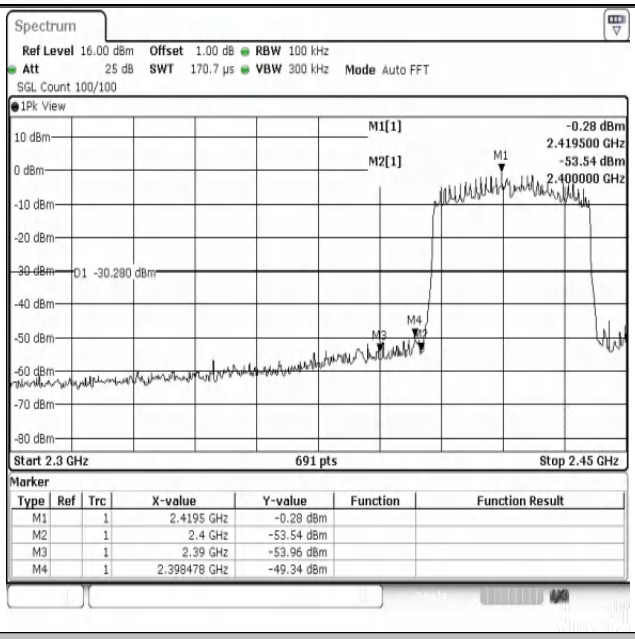
11N40SISO-Ant1-2452-PASS



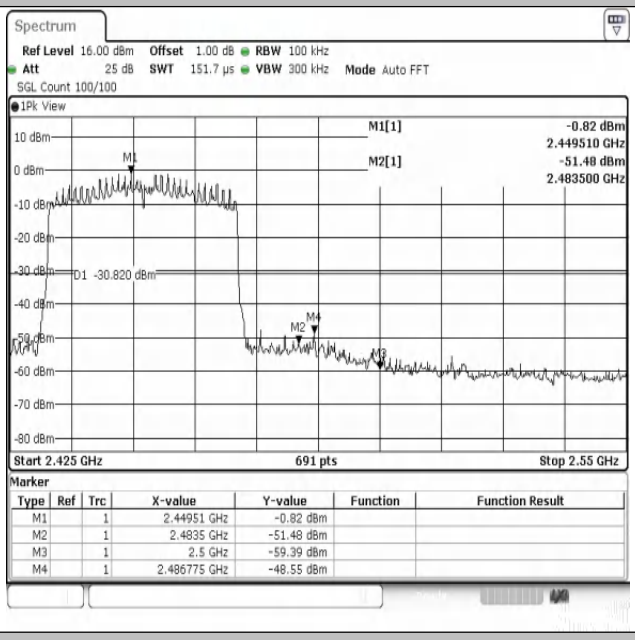
11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2452-PASS

Appendix F: Conducted Spurious Emission

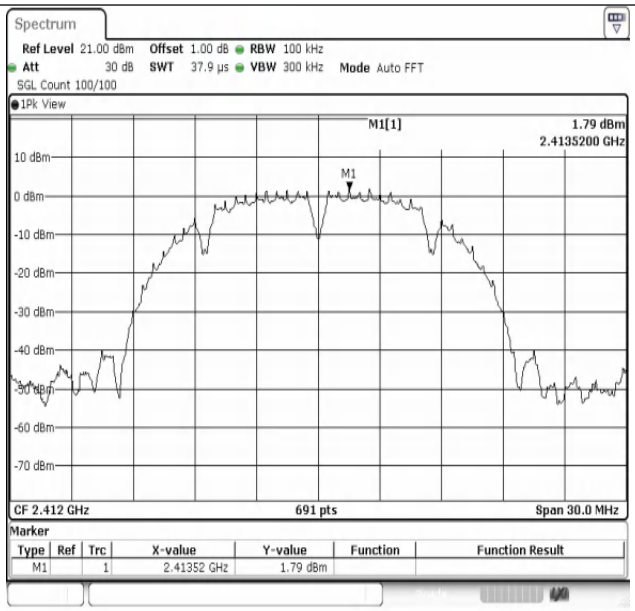
Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	1.79	1.79	---	PASS
11B	Ant1	2412	30~1000	1.79	-69.28	≤-28.21	PASS
11B	Ant1	2412	1000~26500	1.79	-53.42	≤-28.21	PASS
11B	Ant1	2437	0~Reference	2.69	2.69	---	PASS
11B	Ant1	2437	30~1000	2.69	-68.94	≤-27.31	PASS
11B	Ant1	2437	1000~26500	2.69	-52.44	≤-27.31	PASS
11B	Ant1	2462	0~Reference	2.05	2.05	---	PASS
11B	Ant1	2462	30~1000	2.05	-68.41	≤-27.95	PASS
11B	Ant1	2462	1000~26500	2.05	-54.59	≤-27.95	PASS
11G	Ant1	2412	0~Reference	2.38	2.38	---	PASS
11G	Ant1	2412	30~1000	2.38	-68.79	≤-27.62	PASS
11G	Ant1	2412	1000~26500	2.38	-54.18	≤-27.62	PASS
11G	Ant1	2437	0~Reference	2.40	2.40	---	PASS
11G	Ant1	2437	30~1000	2.40	-68.42	≤-27.6	PASS
11G	Ant1	2437	1000~26500	2.40	-54.7	≤-27.6	PASS
11G	Ant1	2462	0~Reference	0.62	0.62	---	PASS
11G	Ant1	2462	30~1000	0.62	-69.15	≤-29.38	PASS
11G	Ant1	2462	1000~26500	0.62	-55.15	≤-29.38	PASS
11N20SISO	Ant1	2412	0~Reference	2.91	2.91	---	PASS
11N20SISO	Ant1	2412	30~1000	2.91	-68.62	≤-27.09	PASS
11N20SISO	Ant1	2412	1000~26500	2.91	-51.82	≤-27.09	PASS
11N20SISO	Ant1	2437	0~Reference	1.37	1.37	---	PASS
11N20SISO	Ant1	2437	30~1000	1.37	-69.38	≤-28.63	PASS
11N20SISO	Ant1	2437	1000~26500	1.37	-55.25	≤-28.63	PASS
11N20SISO	Ant1	2462	0~Reference	0.66	0.66	---	PASS
11N20SISO	Ant1	2462	30~1000	0.66	-69.16	≤-29.34	PASS
11N20SISO	Ant1	2462	1000~26500	0.66	-54.46	≤-29.34	PASS
11N40SISO	Ant1	2422	0~Reference	0.24	0.24	---	PASS
11N40SISO	Ant1	2422	30~1000	0.24	-68.56	≤-29.76	PASS
11N40SISO	Ant1	2422	1000~26500	0.24	-54.37	≤-29.76	PASS
11N40SISO	Ant1	2437	0~Reference	-0.49	-0.49	---	PASS
11N40SISO	Ant1	2437	30~1000	-0.49	-68.55	≤-30.49	PASS
11N40SISO	Ant1	2437	1000~26500	-0.49	-54.54	≤-30.49	PASS
11N40SISO	Ant1	2452	0~Reference	-1.61	-1.61	---	PASS
11N40SISO	Ant1	2452	30~1000	-1.61	-68.01	≤-31.61	PASS
11N40SISO	Ant1	2452	1000~26500	-1.61	-54.02	≤-31.61	PASS

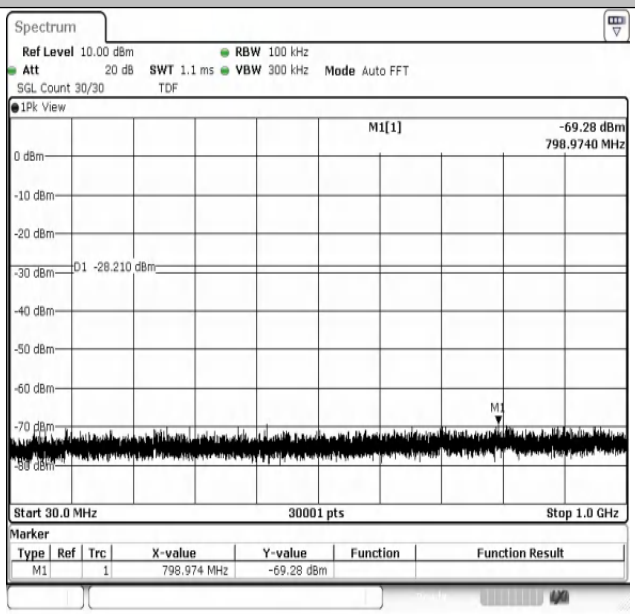
11AX20SISO	Ant1	2412	0~Reference	2.96	2.96	---	PASS
11AX20SISO	Ant1	2412	30~1000	2.96	-68.22	≤-27.04	PASS
11AX20SISO	Ant1	2412	1000~26500	2.96	-55.28	≤-27.04	PASS
11AX20SISO	Ant1	2437	0~Reference	0.78	0.78	---	PASS
11AX20SISO	Ant1	2437	30~1000	0.78	-67.34	≤-29.22	PASS
11AX20SISO	Ant1	2437	1000~26500	0.78	-55.52	≤-29.22	PASS
11AX20SISO	Ant1	2462	0~Reference	1.41	1.41	---	PASS
11AX20SISO	Ant1	2462	30~1000	1.41	-68.49	≤-28.59	PASS
11AX20SISO	Ant1	2462	1000~26500	1.41	-55.6	≤-28.59	PASS
11AX40SISO	Ant1	2422	0~Reference	-0.27	-0.27	---	PASS
11AX40SISO	Ant1	2422	30~1000	-0.27	-68.36	≤-30.27	PASS
11AX40SISO	Ant1	2422	1000~26500	-0.27	-55.3	≤-30.27	PASS
11AX40SISO	Ant1	2437	0~Reference	-0.33	-0.33	---	PASS
11AX40SISO	Ant1	2437	30~1000	-0.33	-68.42	≤-30.33	PASS
11AX40SISO	Ant1	2437	1000~26500	-0.33	-54.94	≤-30.33	PASS
11AX40SISO	Ant1	2452	0~Reference	-2.08	-2.08	---	PASS
11AX40SISO	Ant1	2452	30~1000	-2.08	-68.33	≤-32.08	PASS
11AX40SISO	Ant1	2452	1000~26500	-2.08	-54.34	≤-32.08	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factor s have been set in the 'TDF' of the Spectrum Analyzer during the test.

Test Graphs



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



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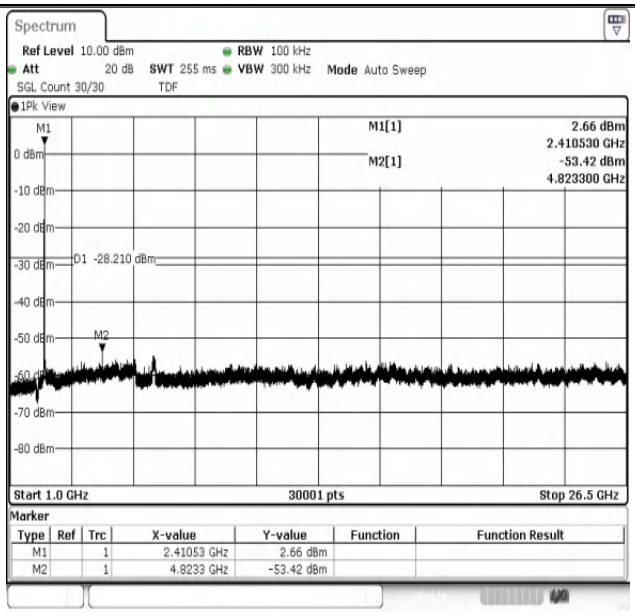

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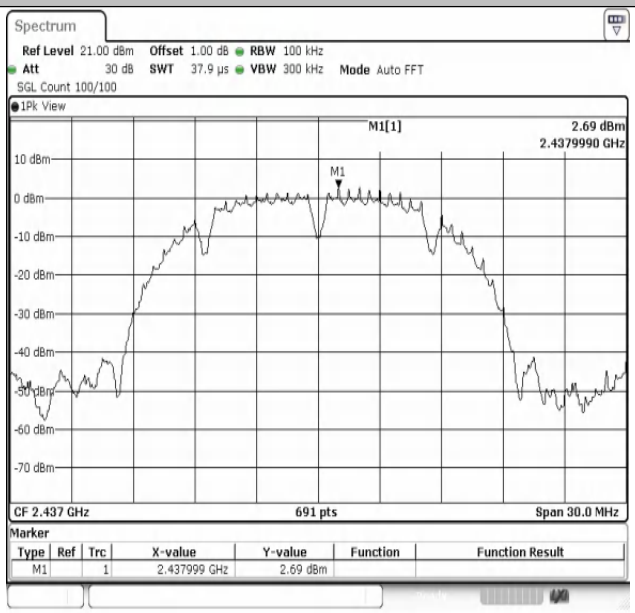

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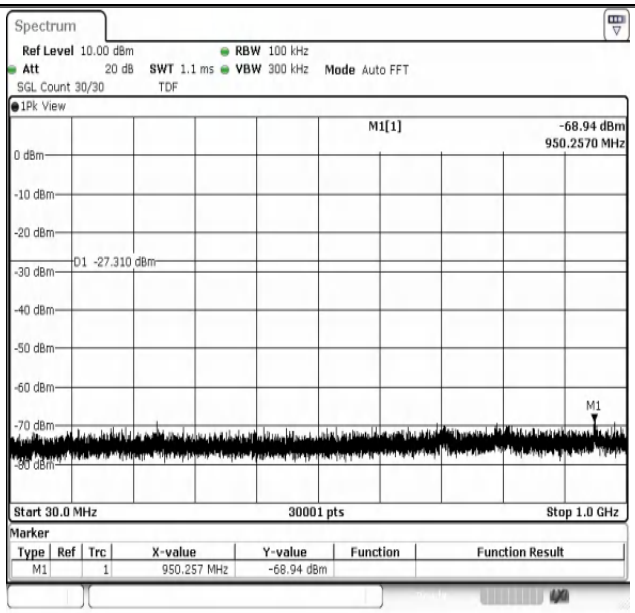

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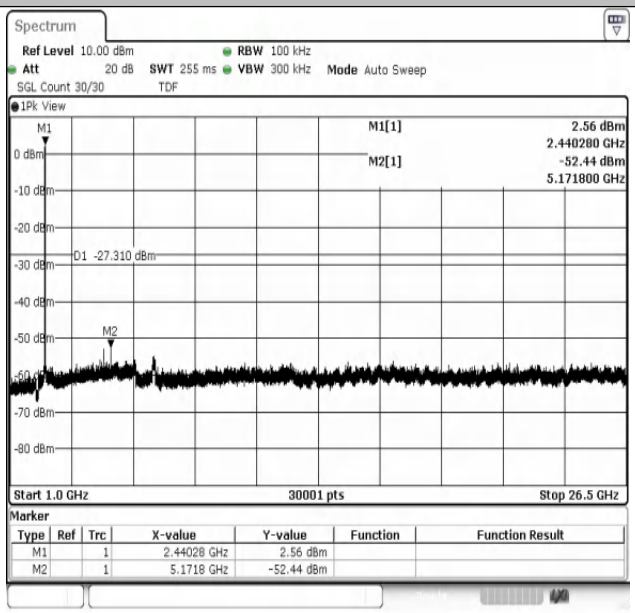

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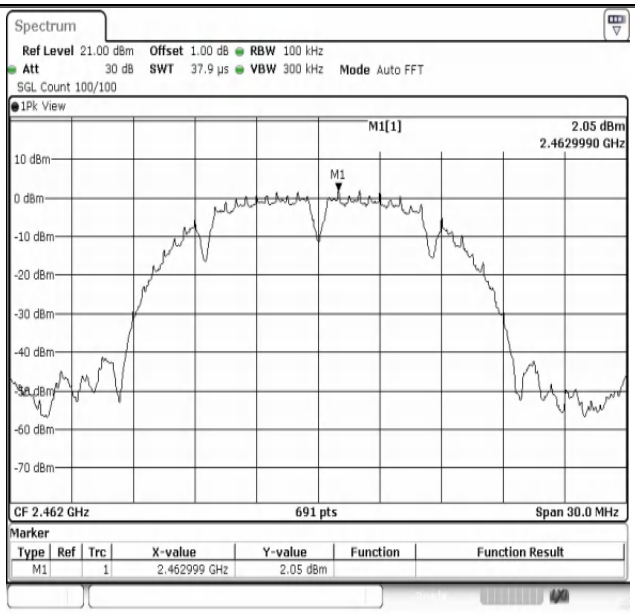

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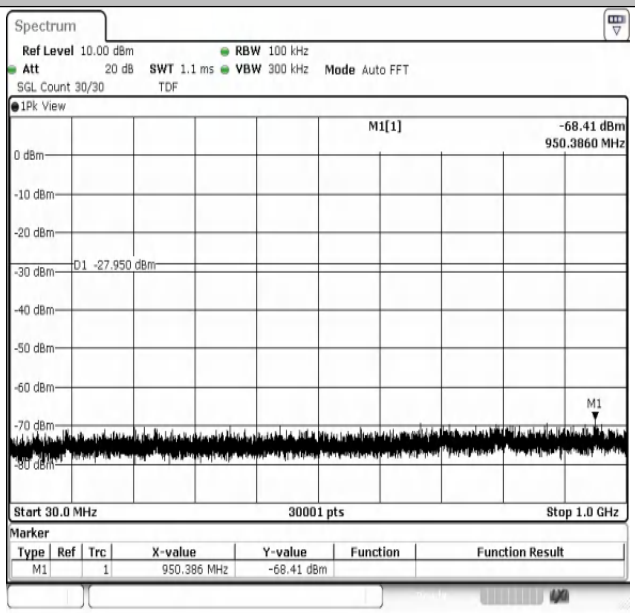

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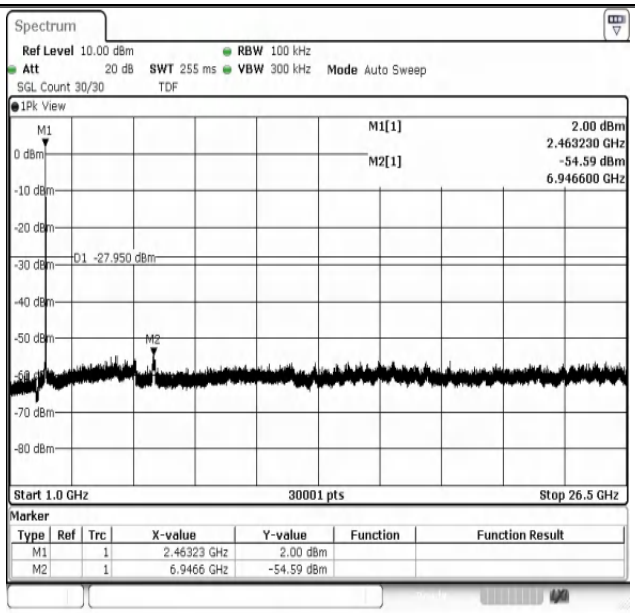

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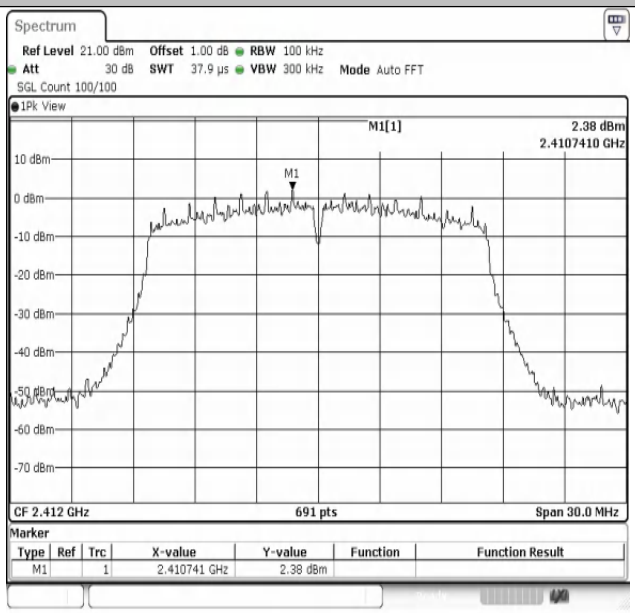

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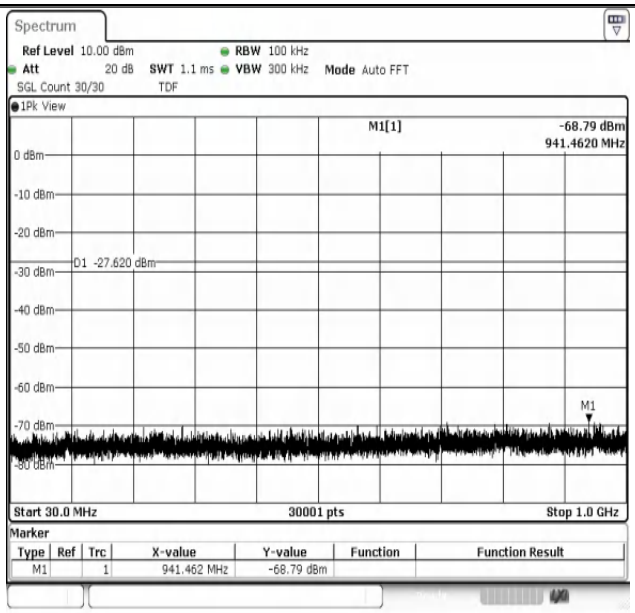

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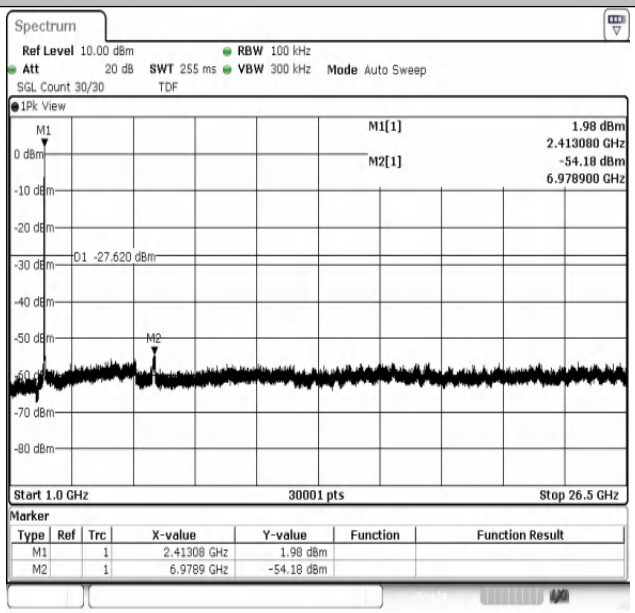

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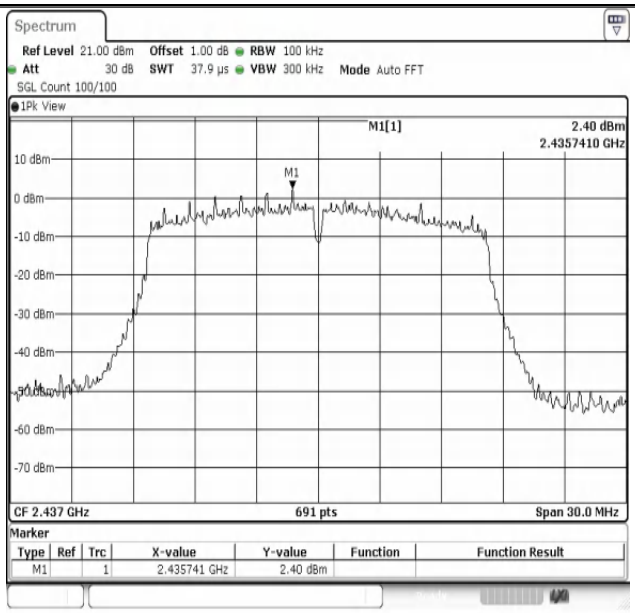

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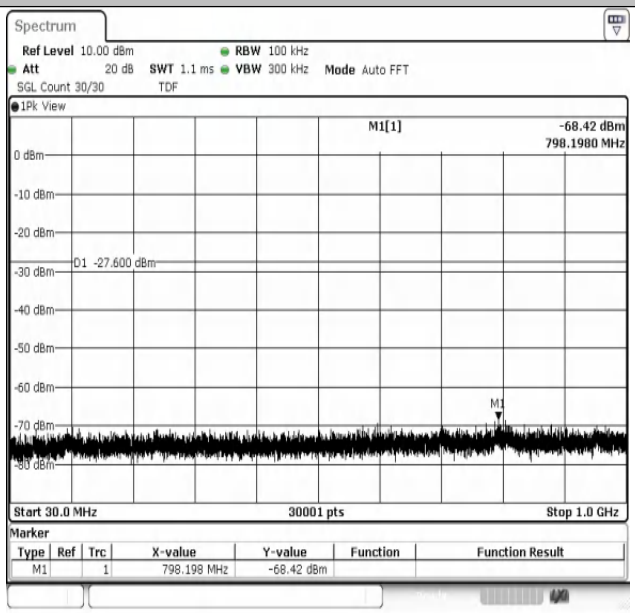

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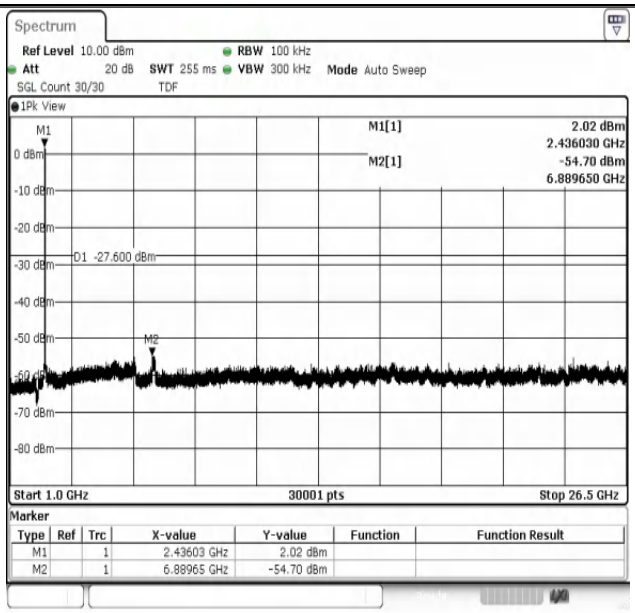

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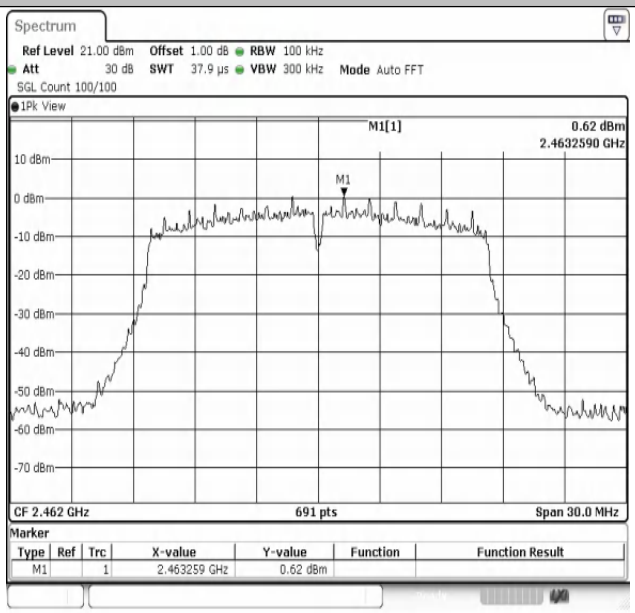

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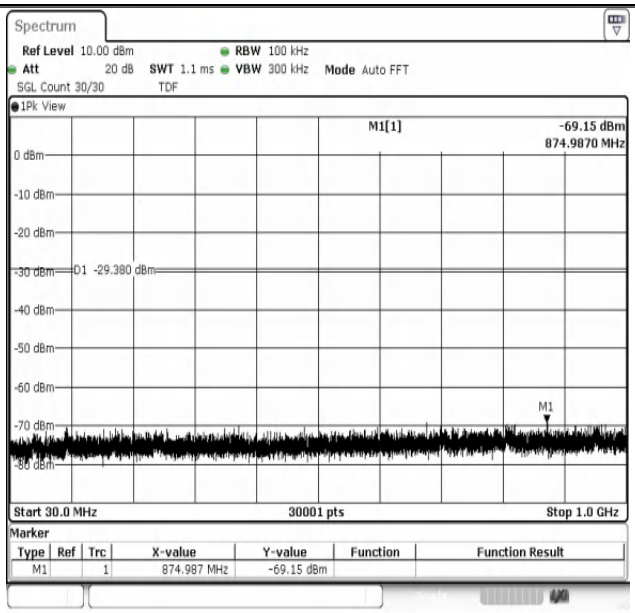

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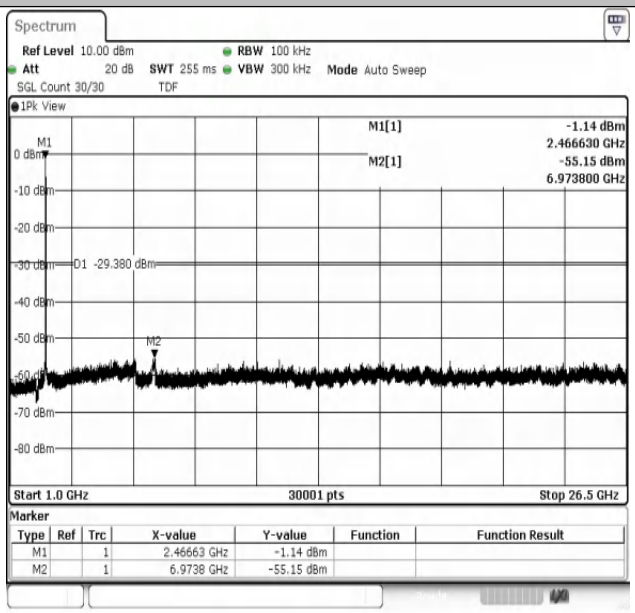

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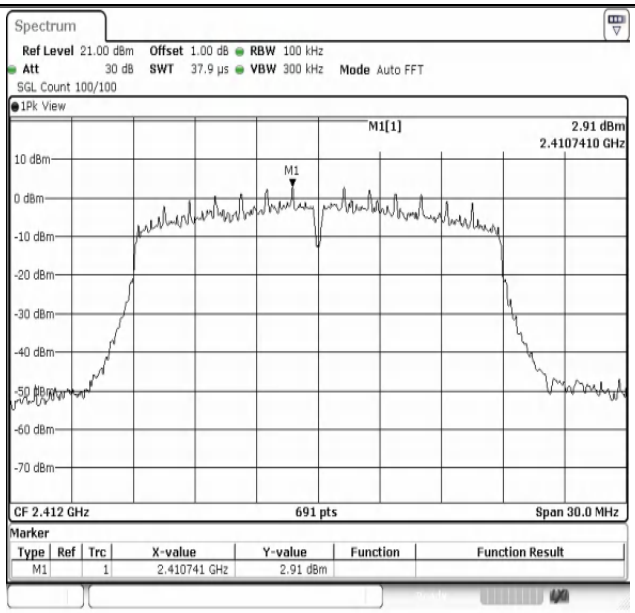

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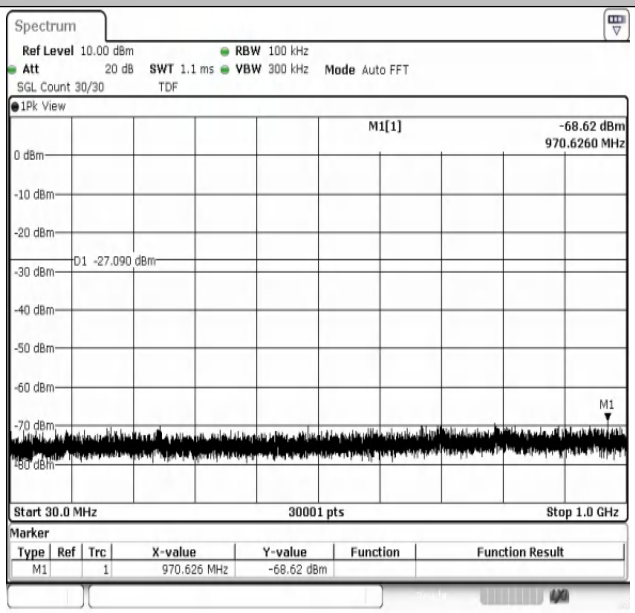

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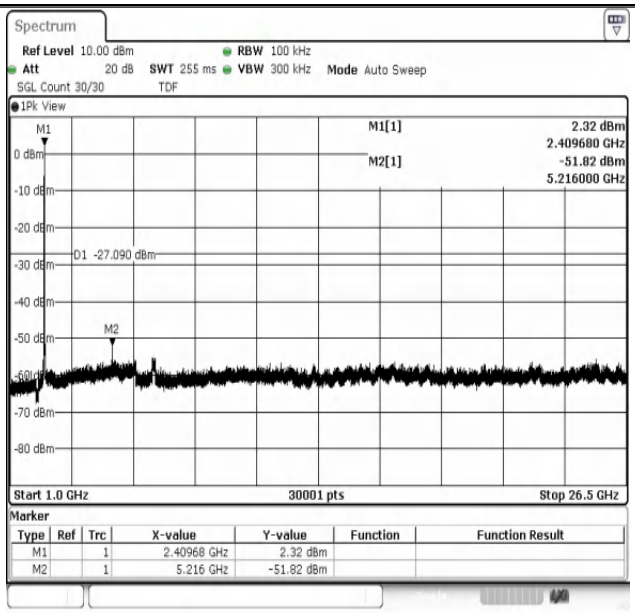

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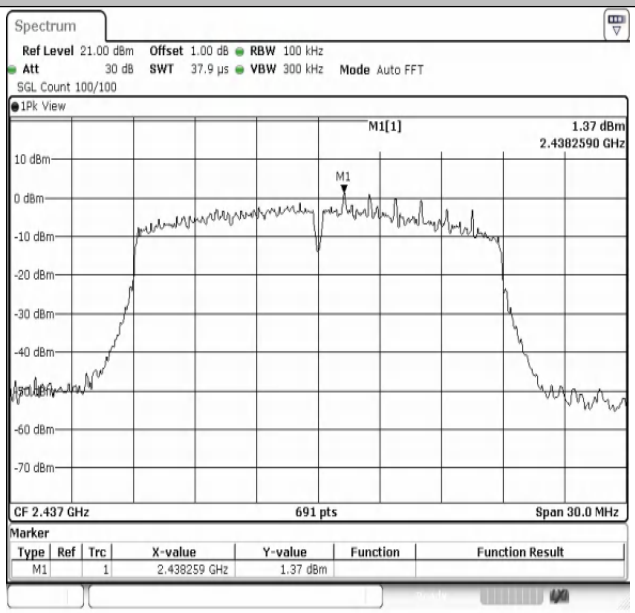

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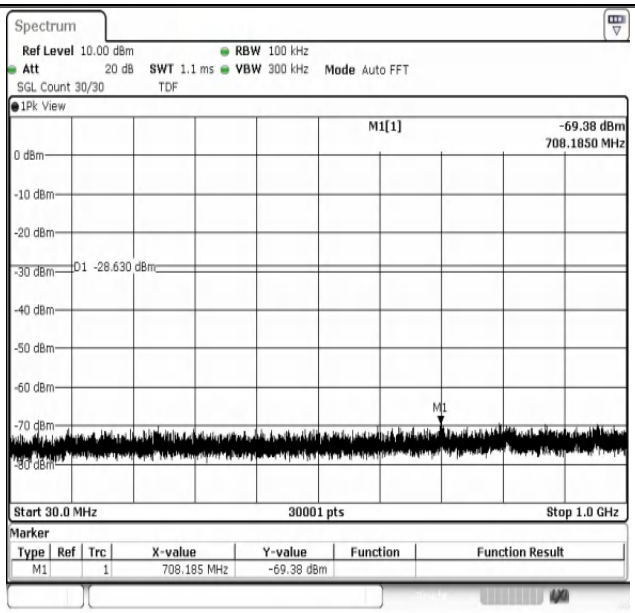

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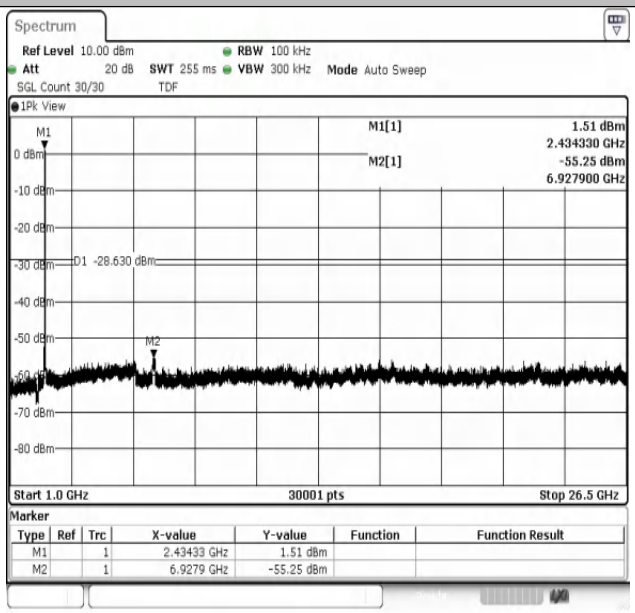

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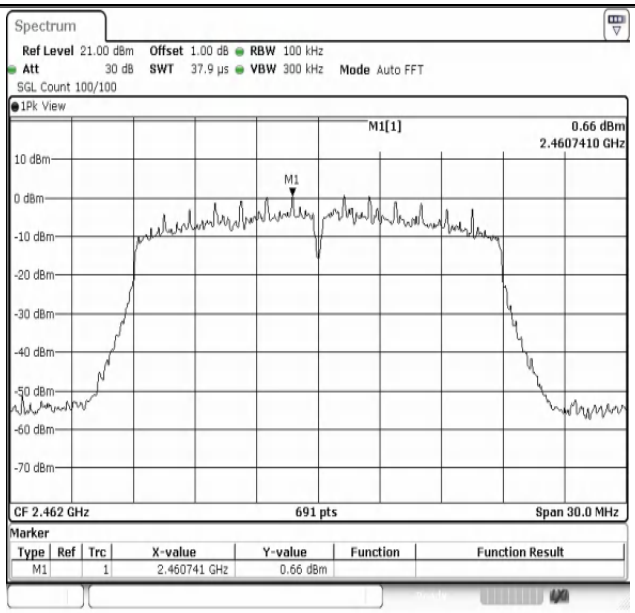

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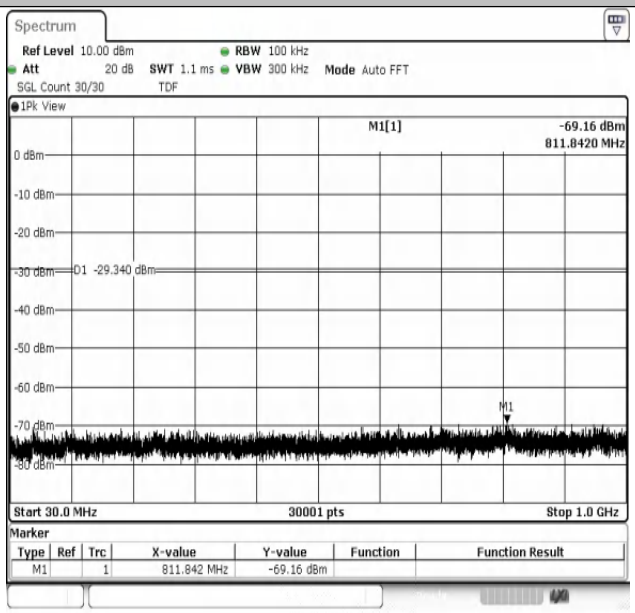

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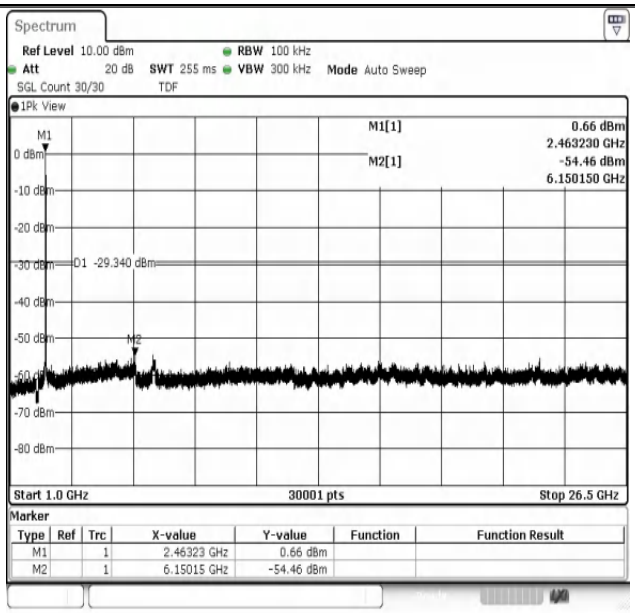

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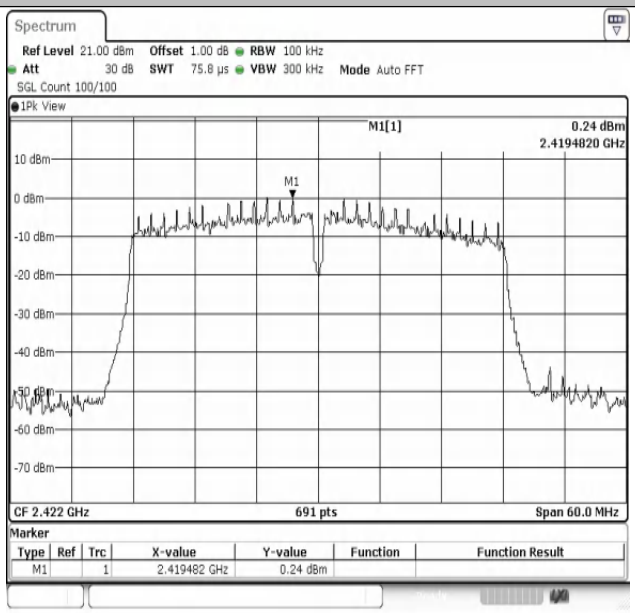

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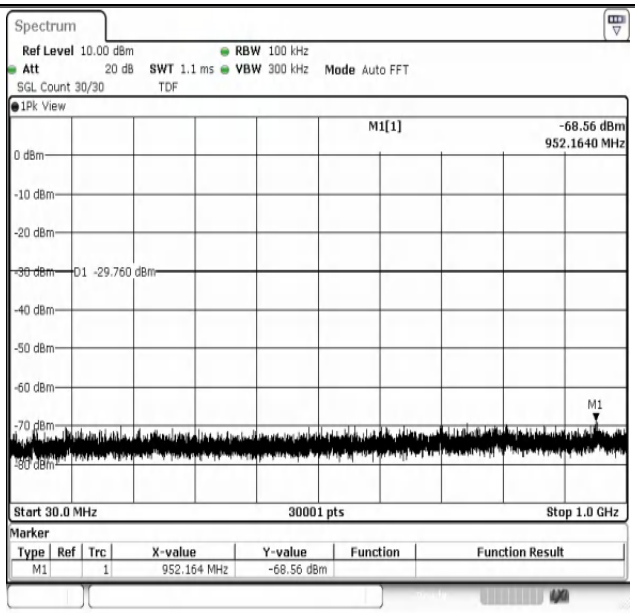

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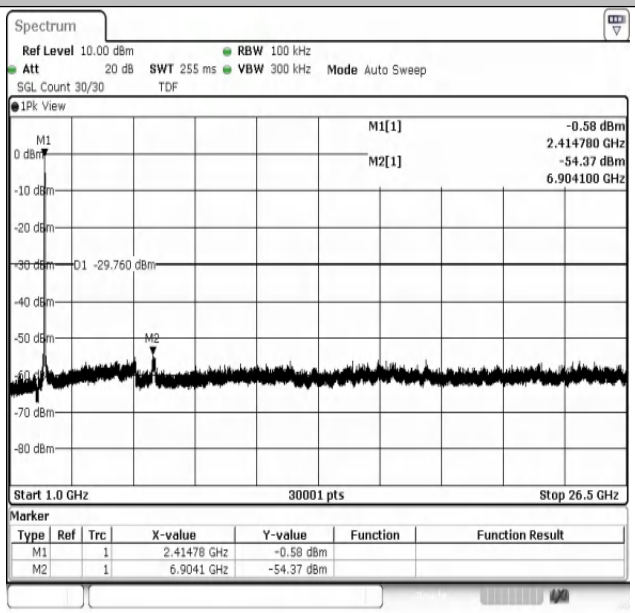

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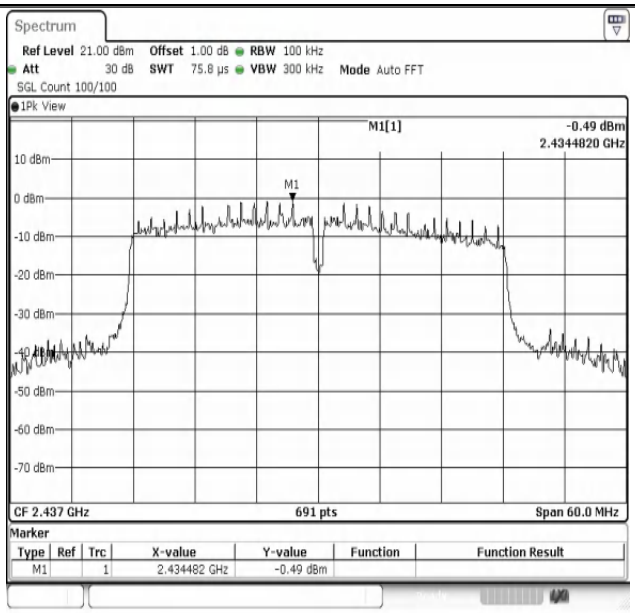

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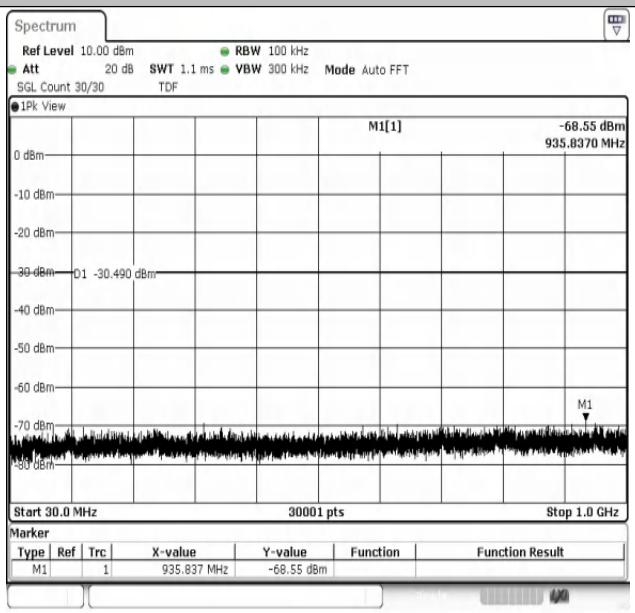

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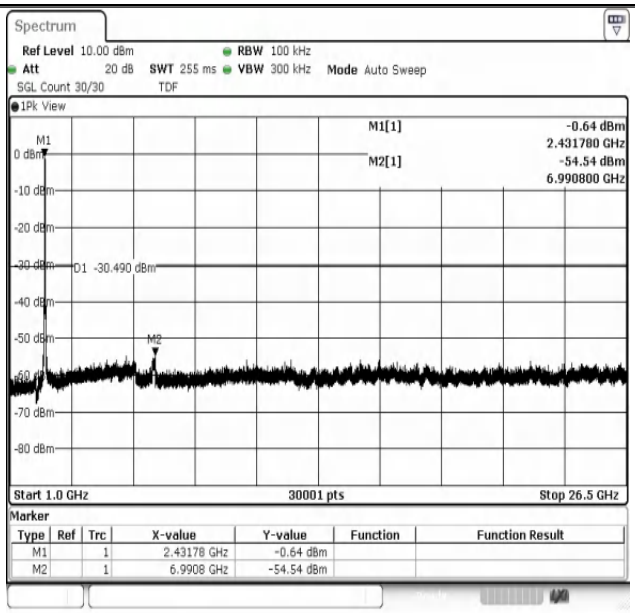

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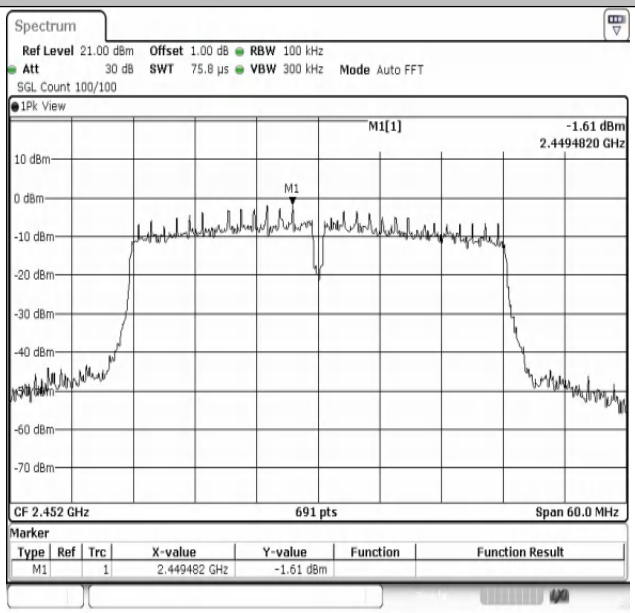

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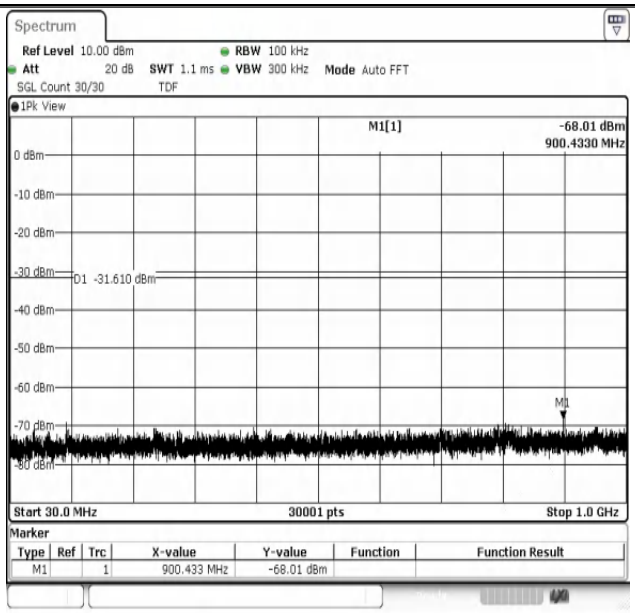

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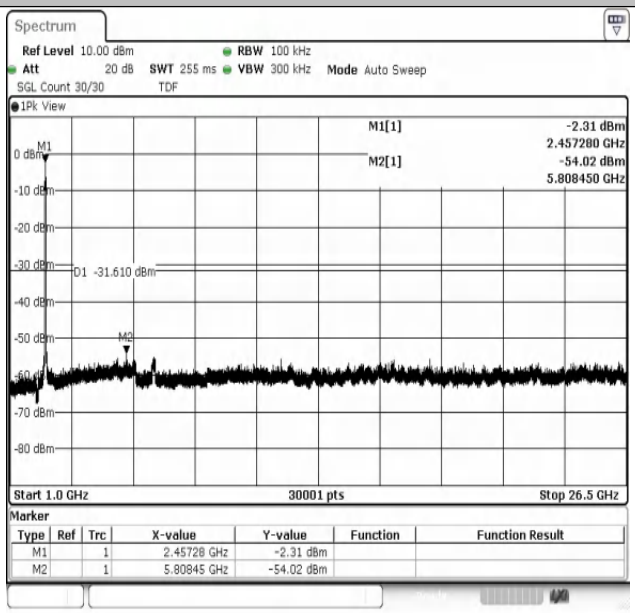

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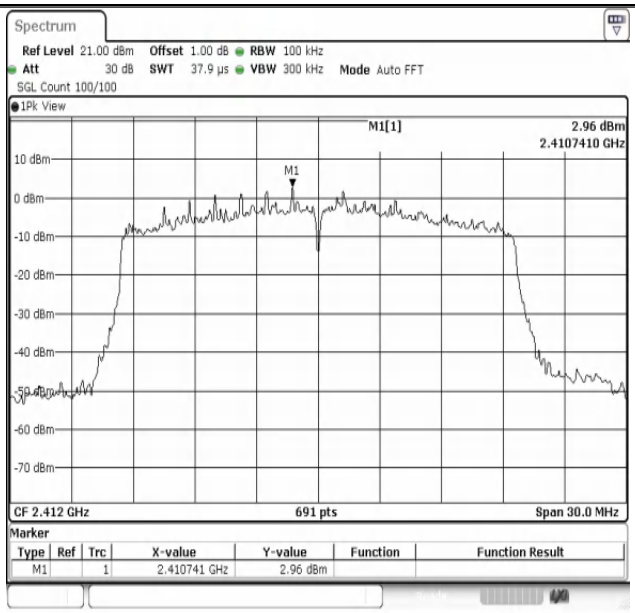

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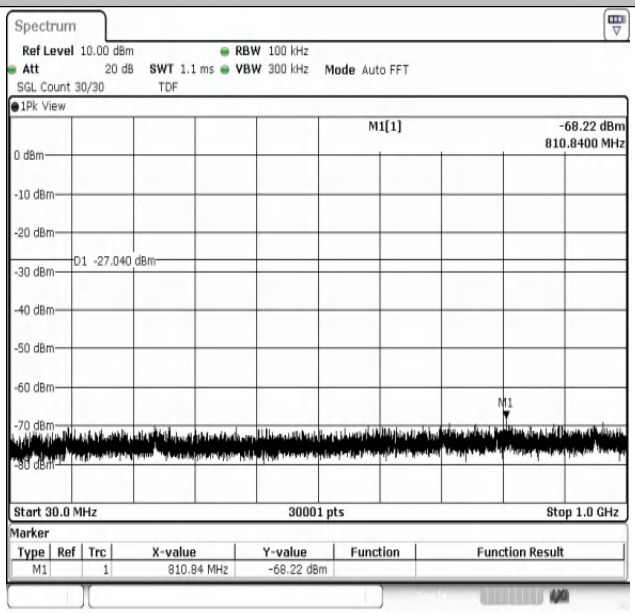

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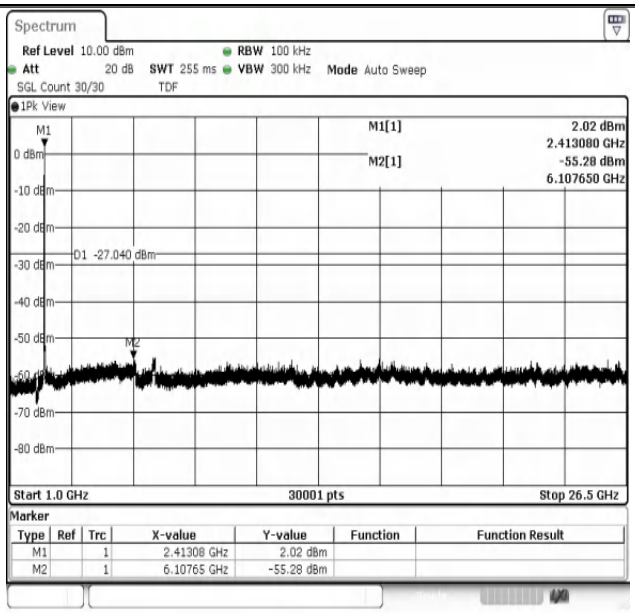
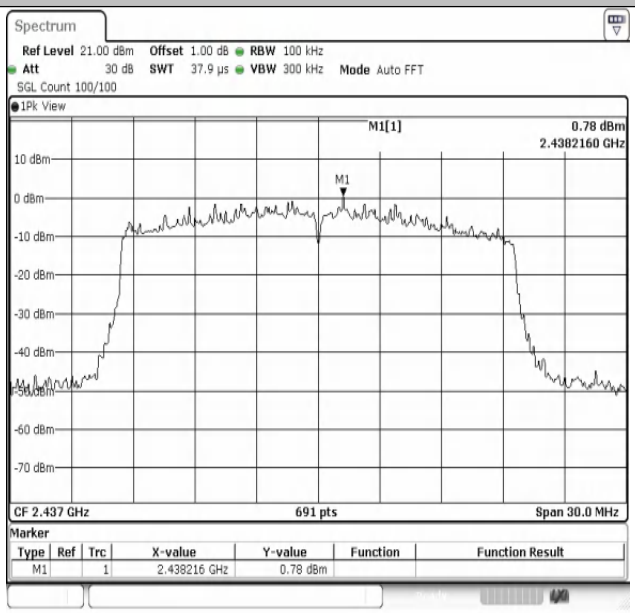
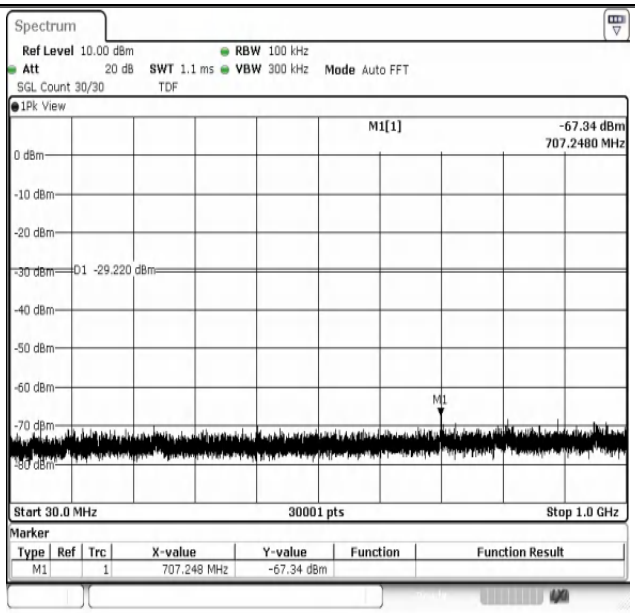


11AX20SISO-Ant1-2412-1000~26500-PASS



11AX20SISO-Ant1-2437-0~Reference-PASS



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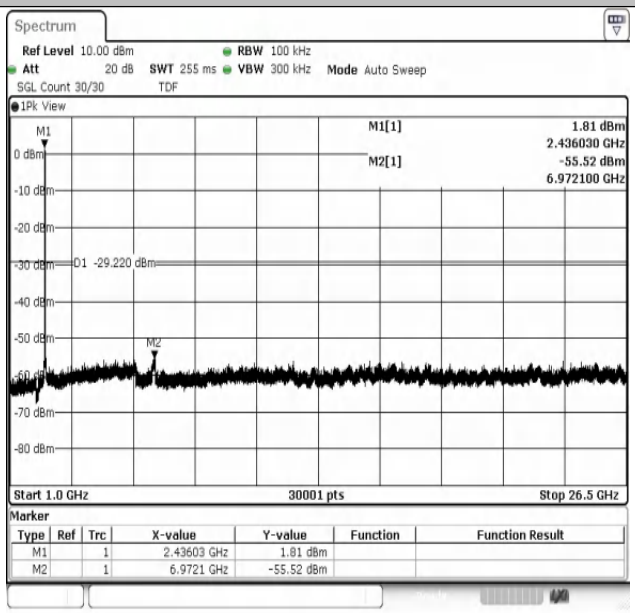

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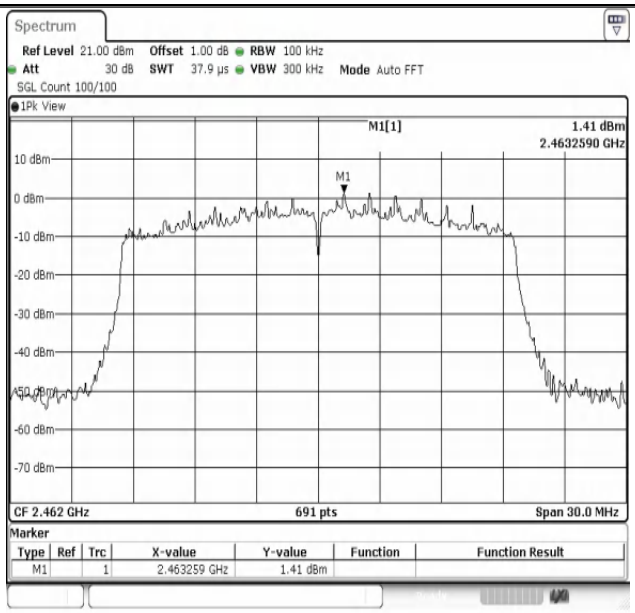

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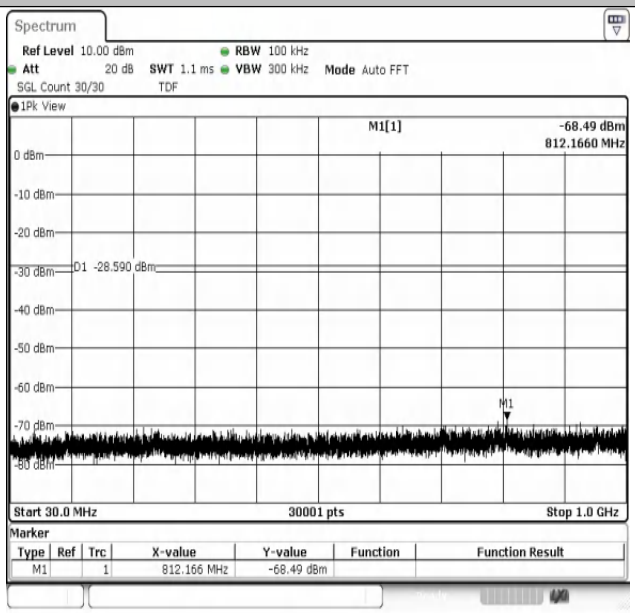

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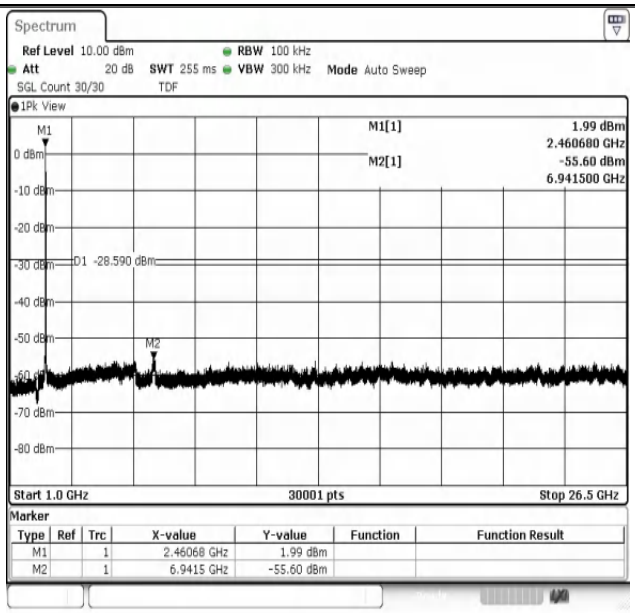

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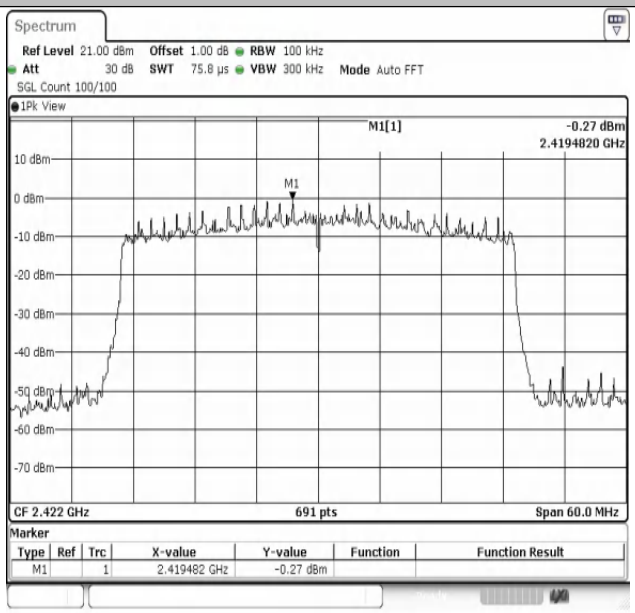

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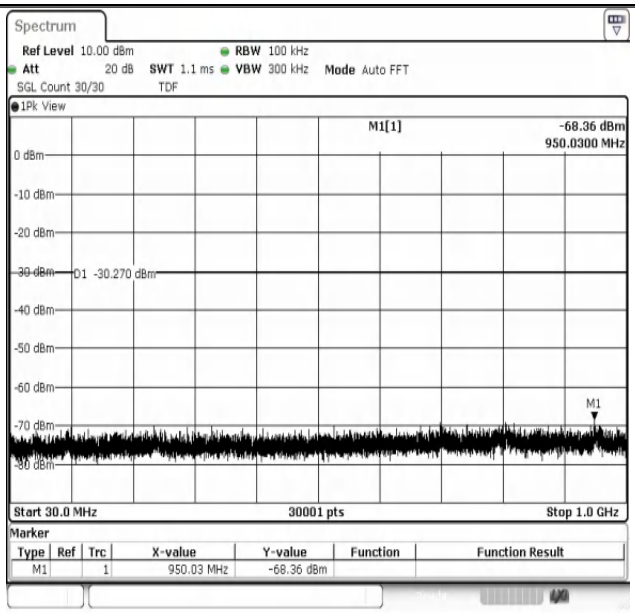

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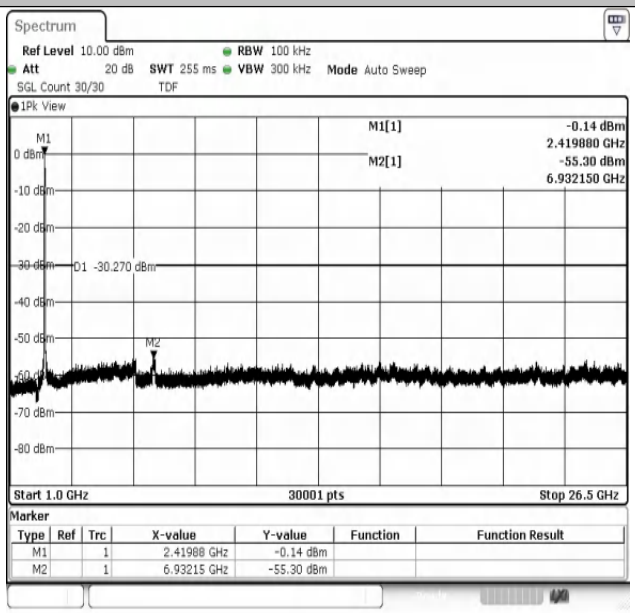

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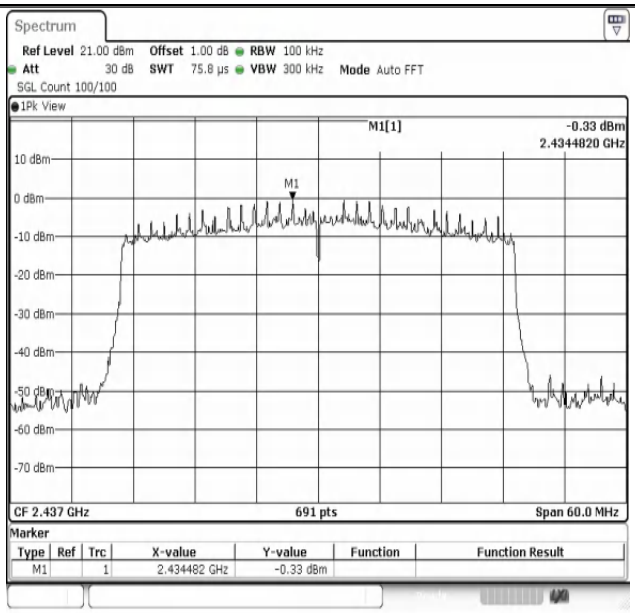

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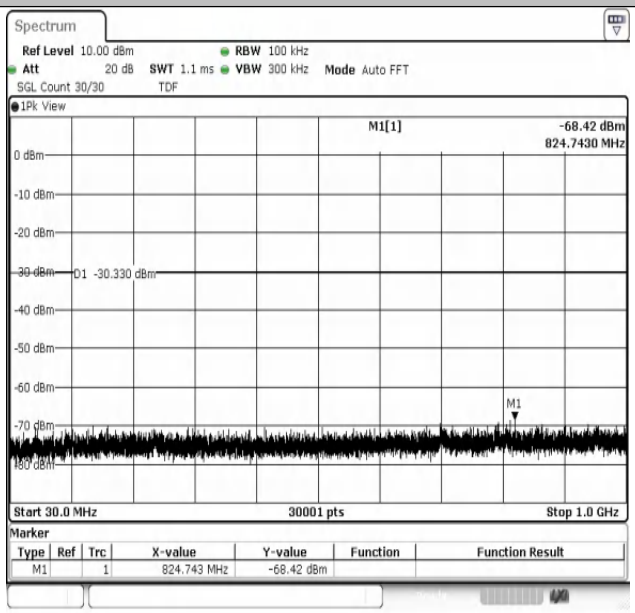

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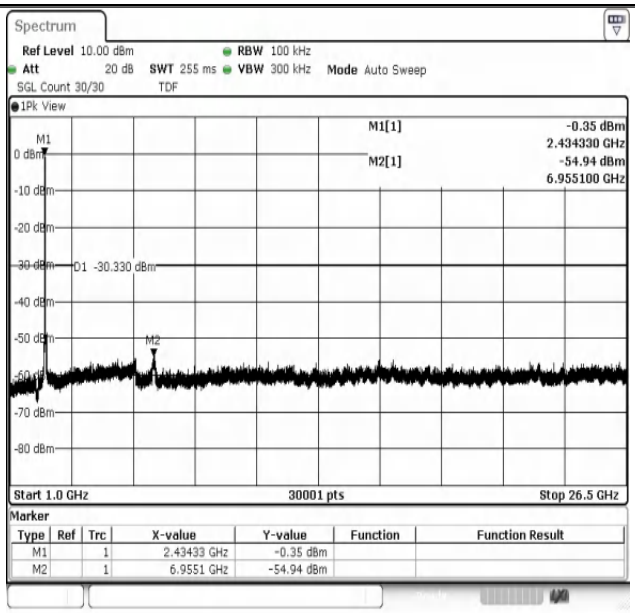
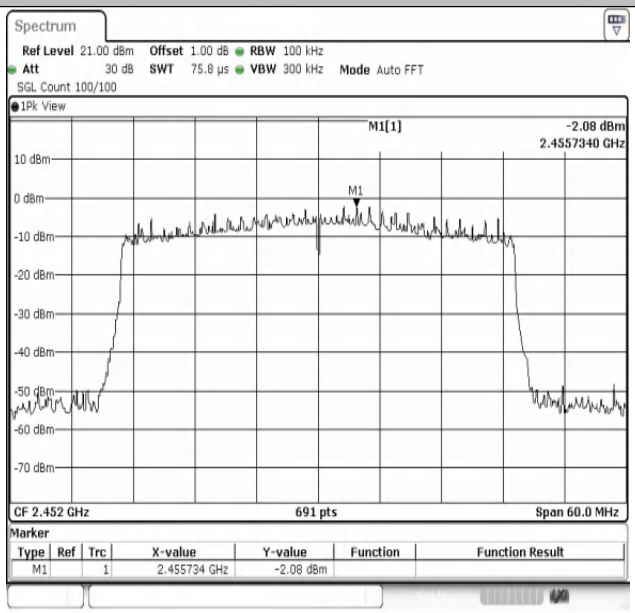
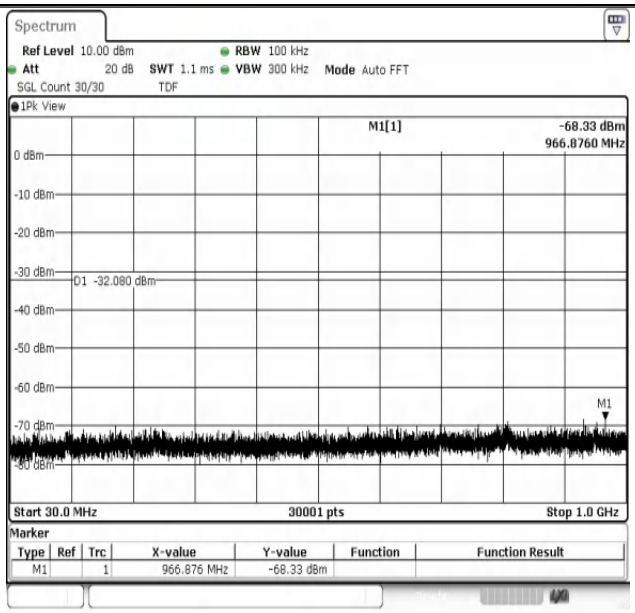


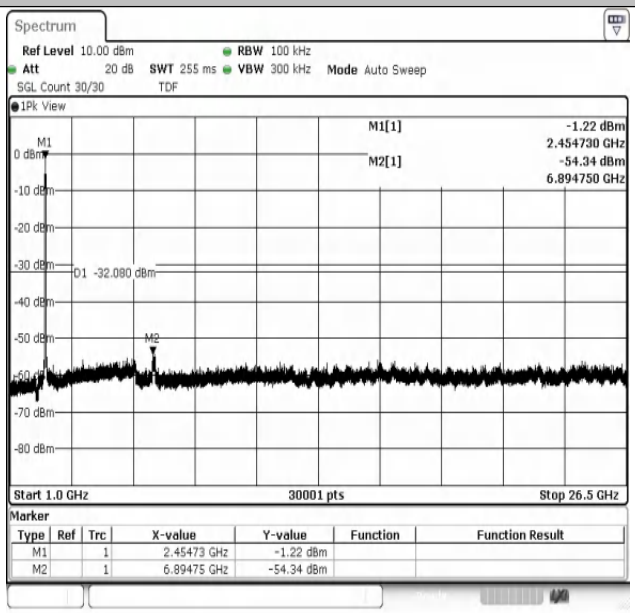
11AX40SISO-Ant1-2437-1000~26500-PASS



11AX40SISO-Ant1-2452-0~Reference-PASS



11AX40SISO-Ant1-2452-30~1000-PASS



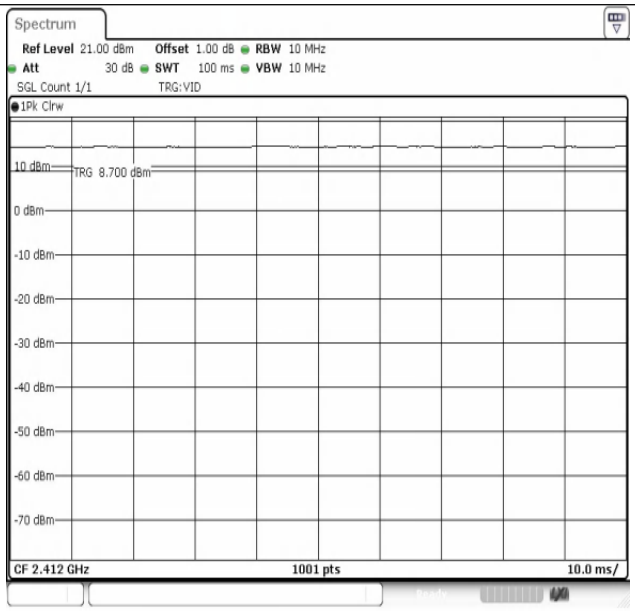
11AX40SISO-Ant1-2452-1000~26500-PASS

Appendix G: Duty Cycle

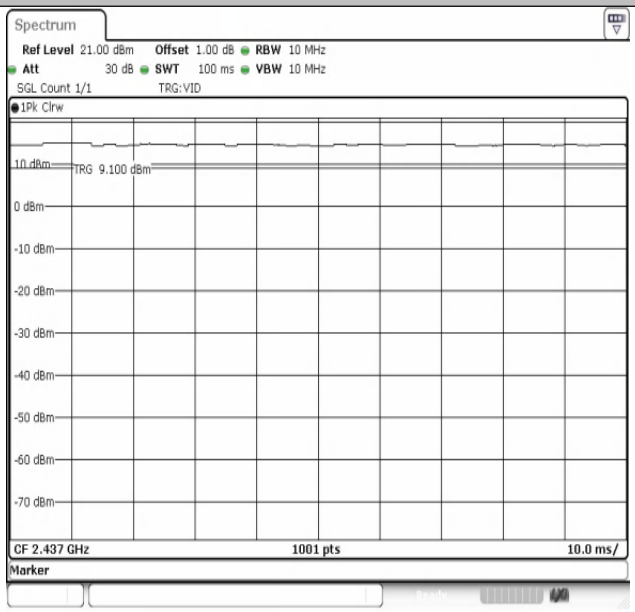
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor [dB]
11B	Ant1	2412	100.00	100.00	100.00	0.00
11B	Ant1	2437	100.00	100.00	100.00	0.00
11B	Ant1	2462	100.00	100.00	100.00	0.00
11G	Ant1	2412	100.00	100.00	100.00	0.00
11G	Ant1	2437	100.00	100.00	100.00	0.00
11G	Ant1	2462	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2412	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2462	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2422	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2452	100.00	100.00	100.00	0.00
11AX20SISO	Ant1	2412	100.00	100.00	100.00	0.00
11AX20SISO	Ant1	2437	100.00	100.00	100.00	0.00
11AX20SISO	Ant1	2462	100.00	100.00	100.00	0.00
11AX40SISO	Ant1	2422	100.00	100.00	100.00	0.00
11AX40SISO	Ant1	2437	100.00	100.00	100.00	0.00
11AX40SISO	Ant1	2452	100.00	100.00	100.00	0.00

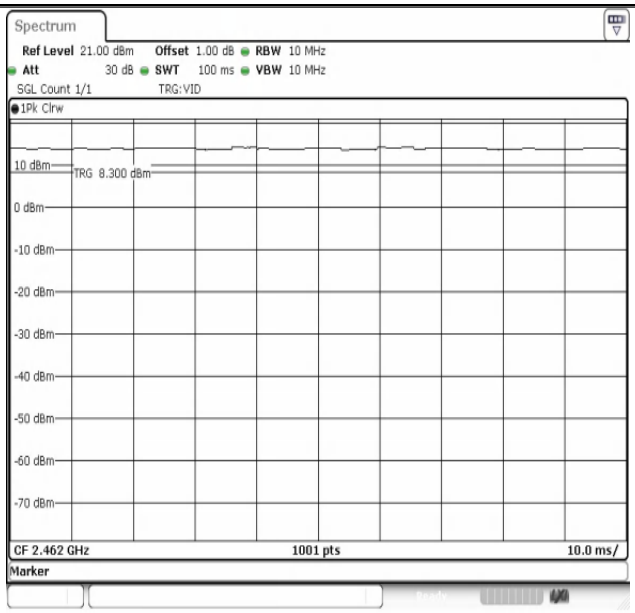
Test Graphs



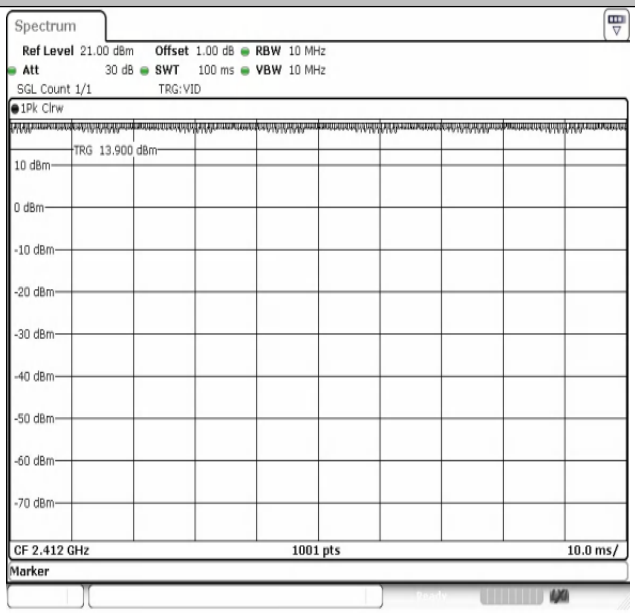
NTNV-11B-Ant1-2412



NTNV-11B-Ant1-2437



NTNV-11B-Ant1-2462



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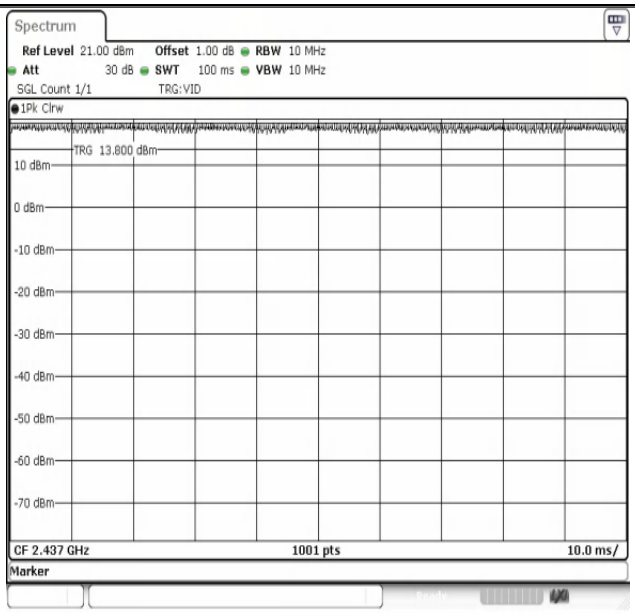

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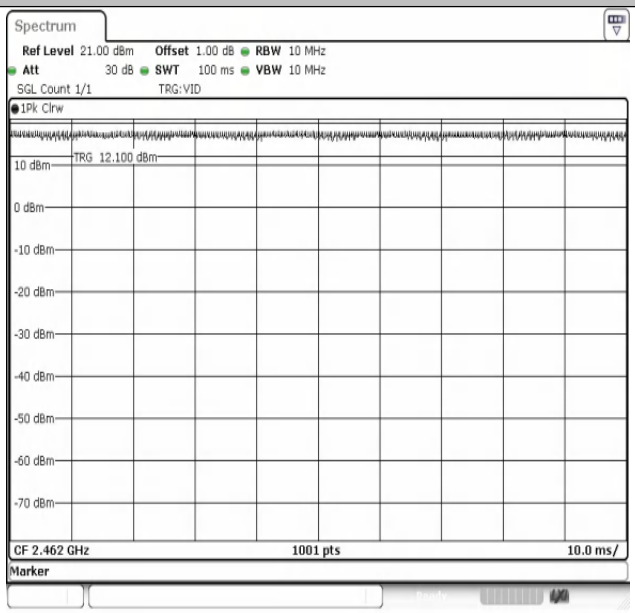

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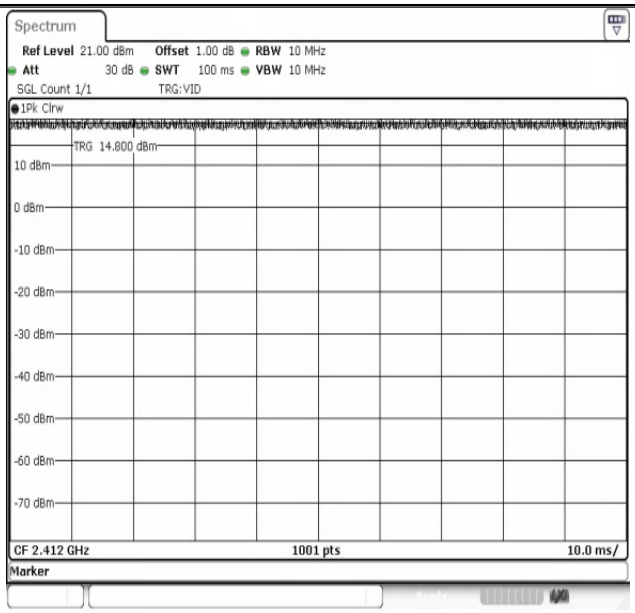

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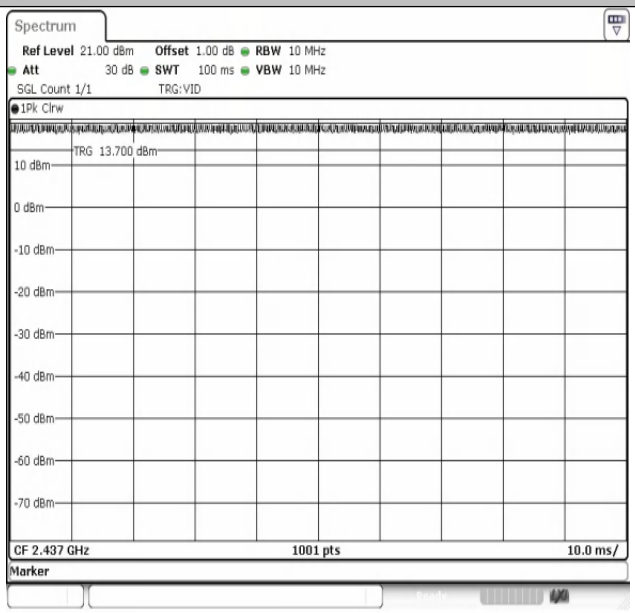

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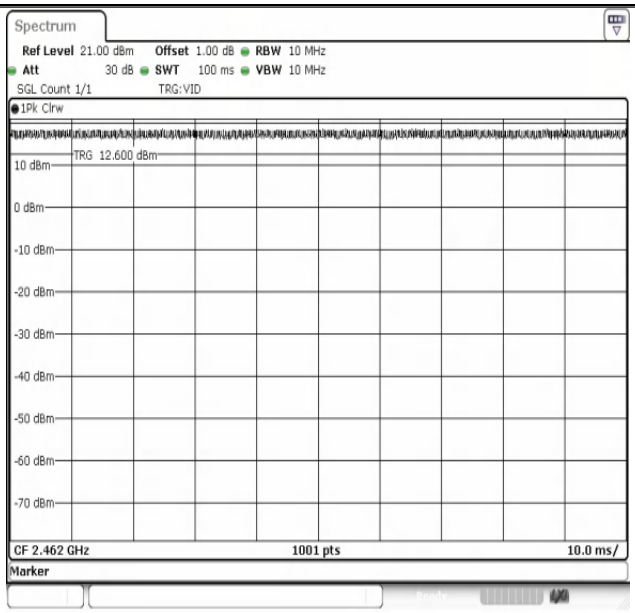

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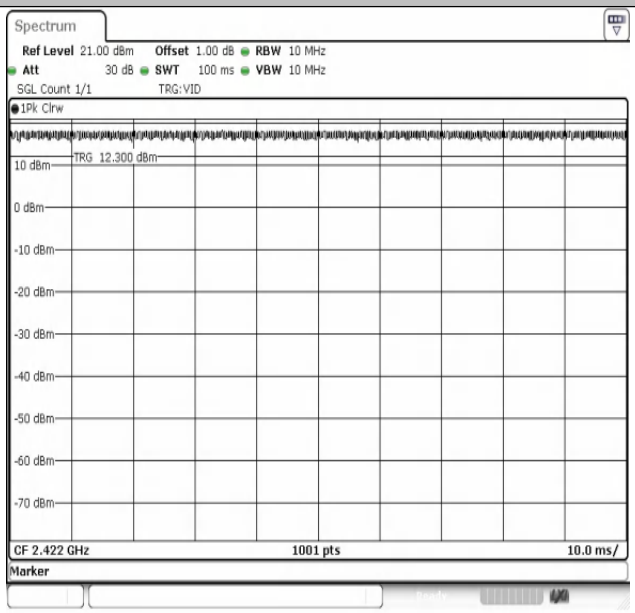

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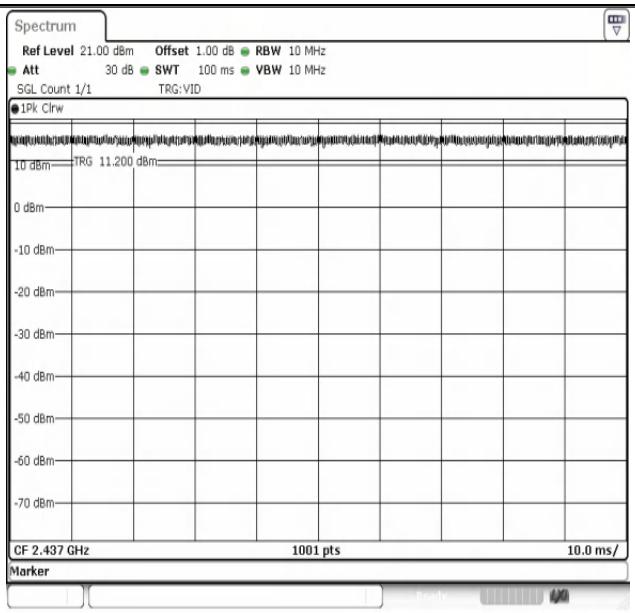

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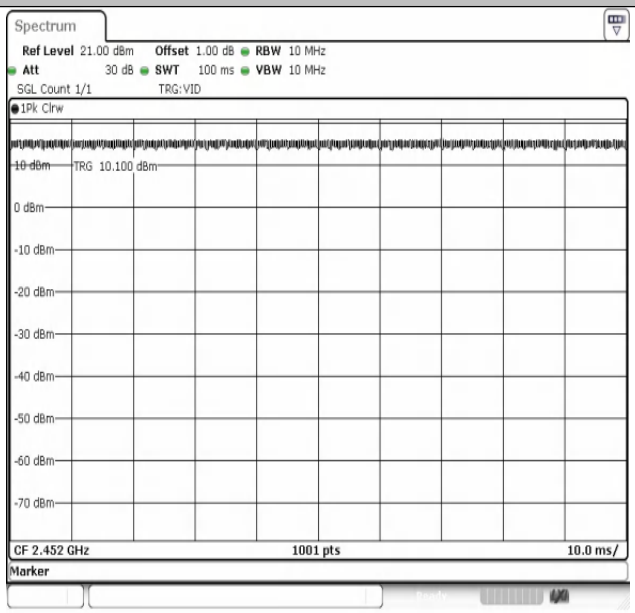

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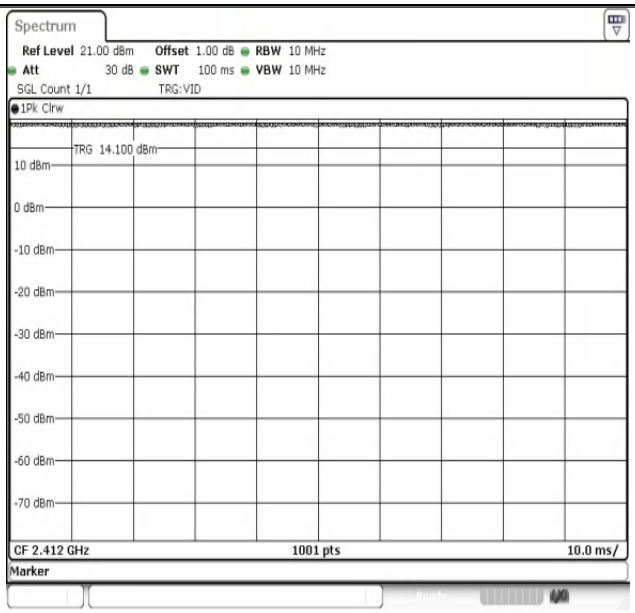

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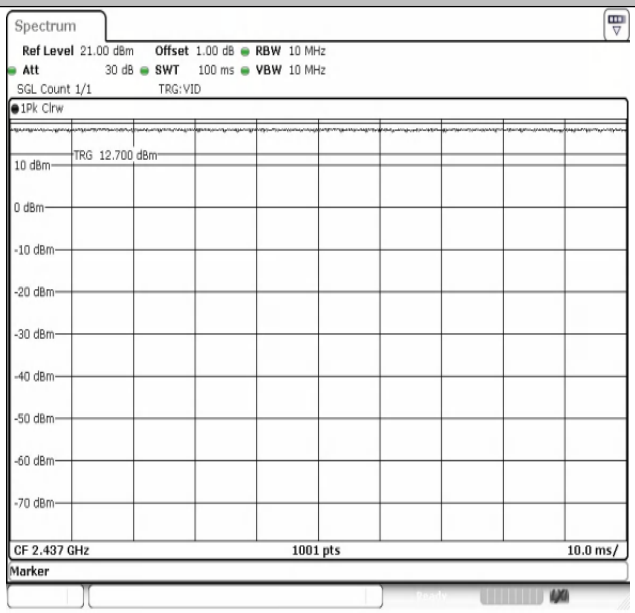

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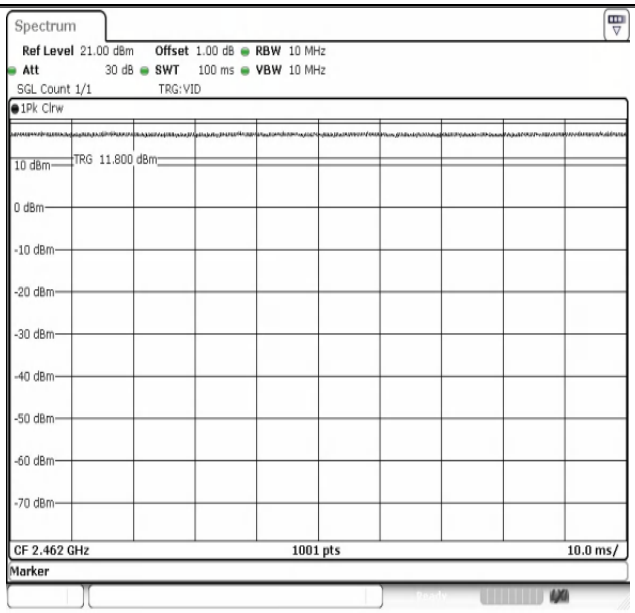

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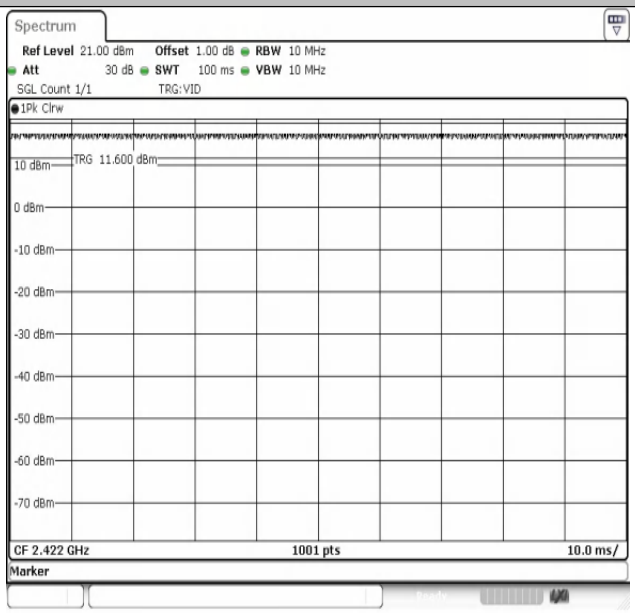

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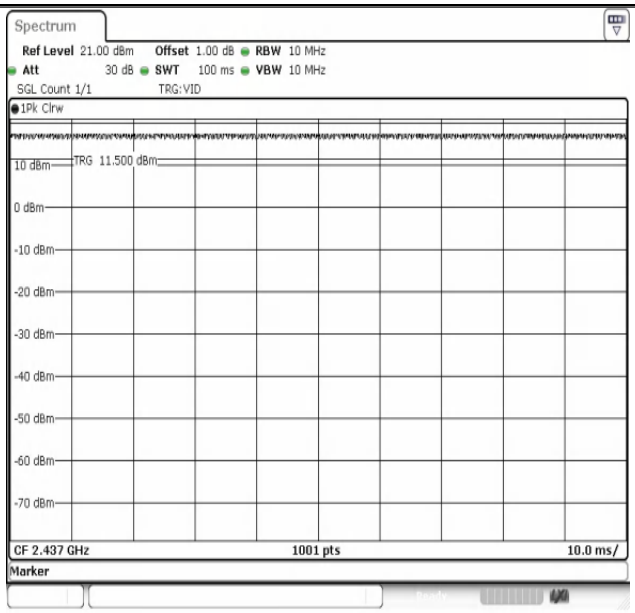

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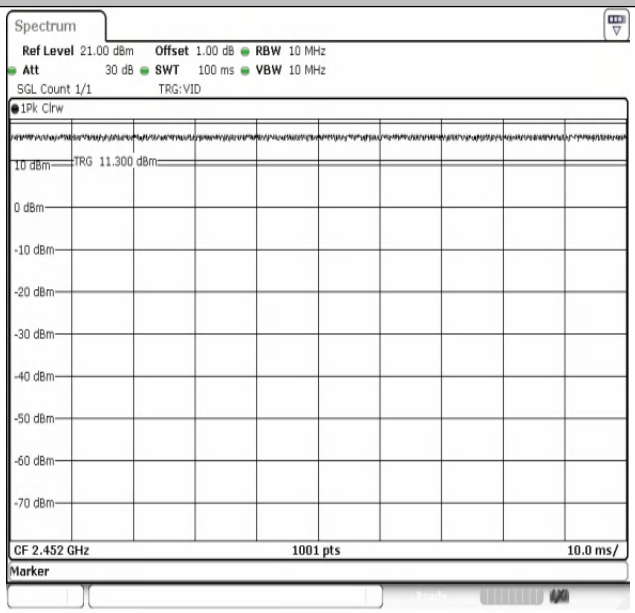

NTNV-11AX40SISO-Ant1-2452

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