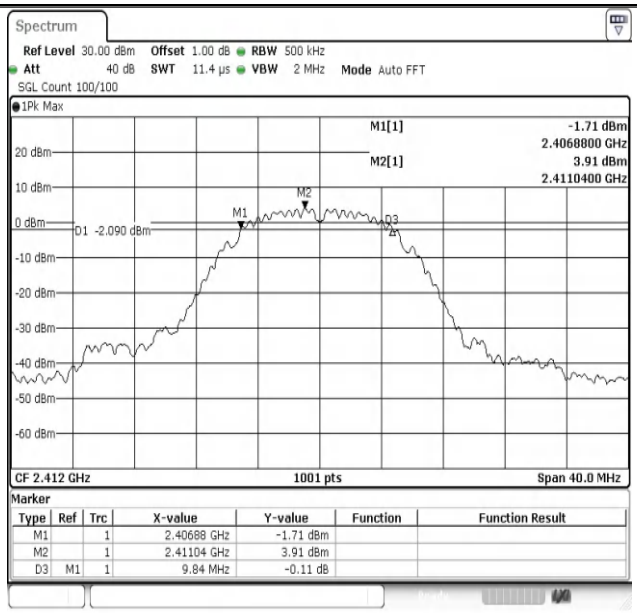
Appendix Test Data

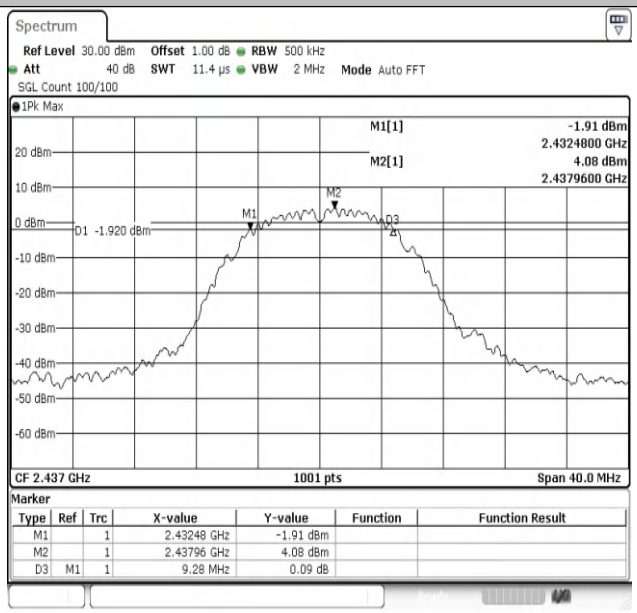
Report No.:	1812C50236712502	Test Sample No.:	1-2-2
Start Test Date:	2025-5-20	Finish Test Date:	2025-5-26
Test Engineer:	Huisen Guan	Auditor:	Justin Feng
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

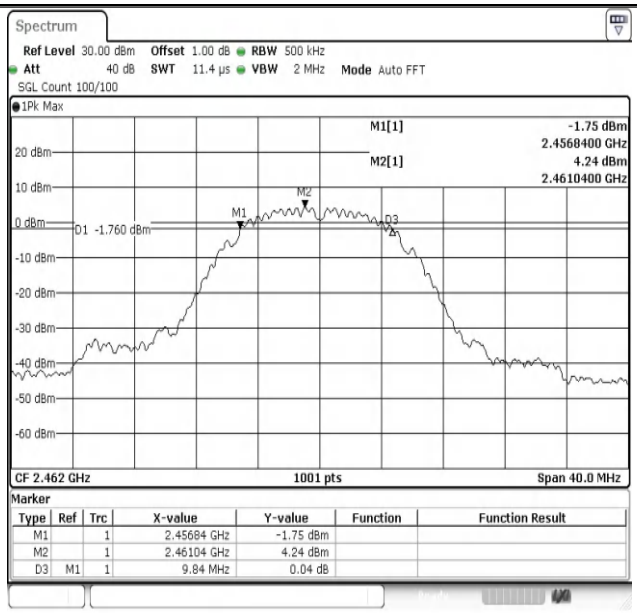
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.84	2406.88	2416.72	0.5	PASS
11B	Ant1	2437	9.28	2432.48	2441.76	0.5	PASS
11B	Ant1	2462	9.84	2456.84	2466.68	0.5	PASS
11G	Ant1	2412	16.24	2403.80	2420.04	0.5	PASS
11G	Ant1	2437	13.04	2431.64	2444.68	0.5	PASS
11G	Ant1	2462	14.76	2454.92	2469.68	0.5	PASS
11N20SISO	Ant1	2412	15.52	2404.28	2419.80	0.5	PASS
11N20SISO	Ant1	2437	16.08	2428.80	2444.88	0.5	PASS
11N20SISO	Ant1	2462	16.20	2454.00	2463.36	0.5	PASS
11N40SISO	Ant1	2422	35.92	2404.00	2431.44	0.5	PASS
11N40SISO	Ant1	2437	32.32	2419.80	2452.12	0.5	PASS
11N40SISO	Ant1	2452	34.64	2434.24	2468.88	0.5	PASS



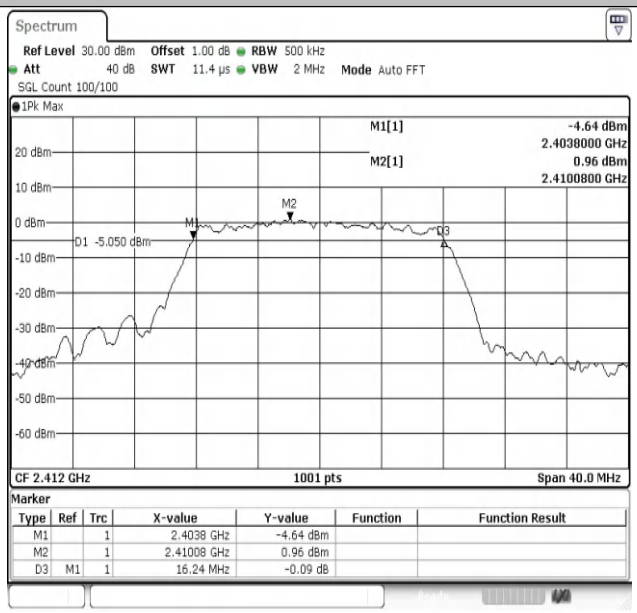
11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS



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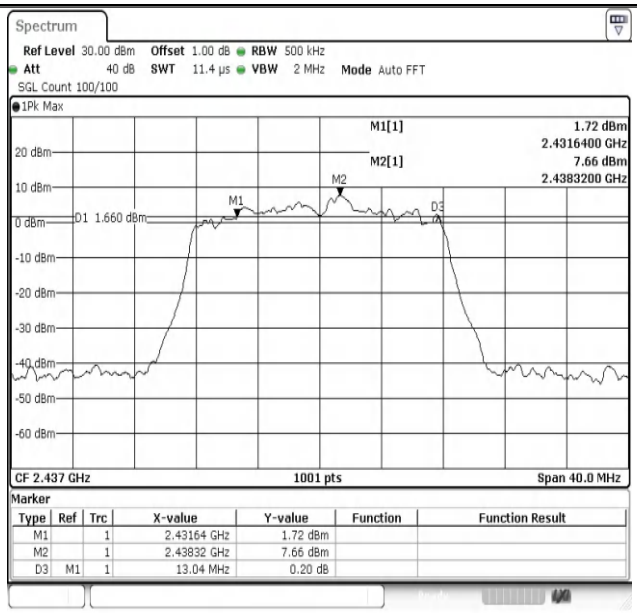

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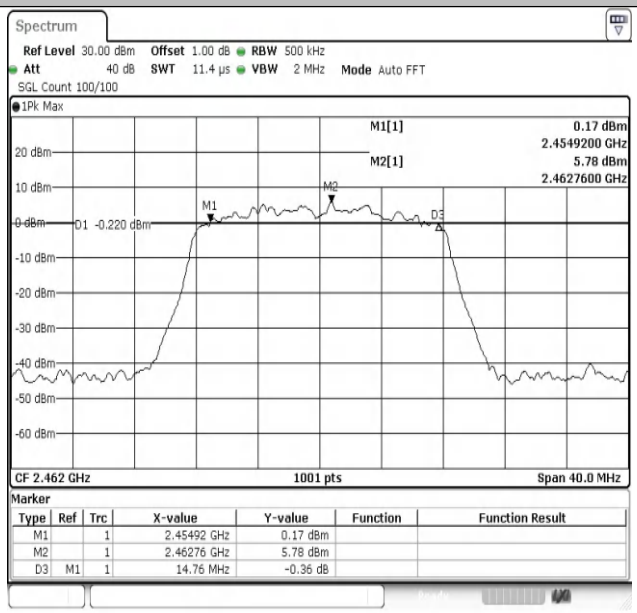

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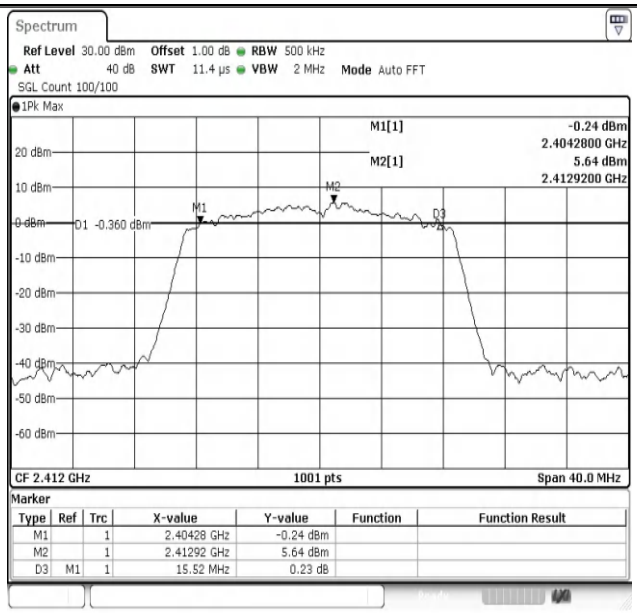

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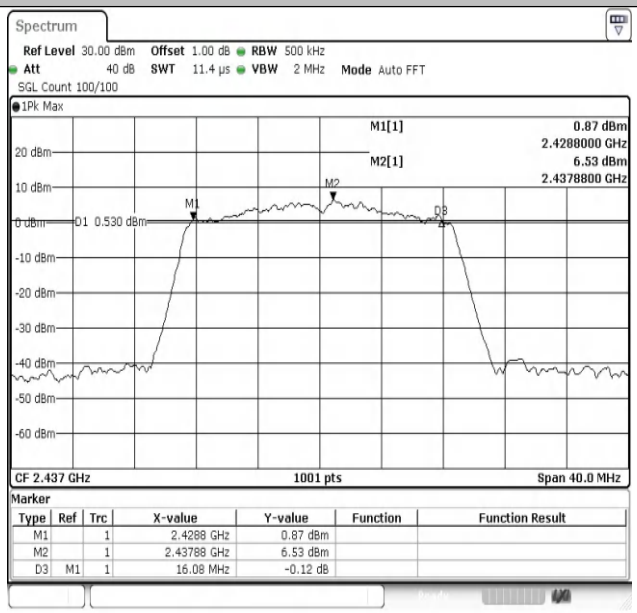

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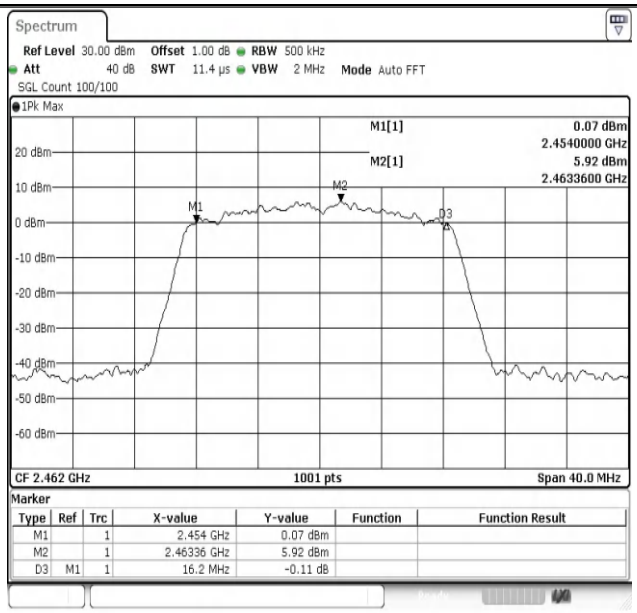

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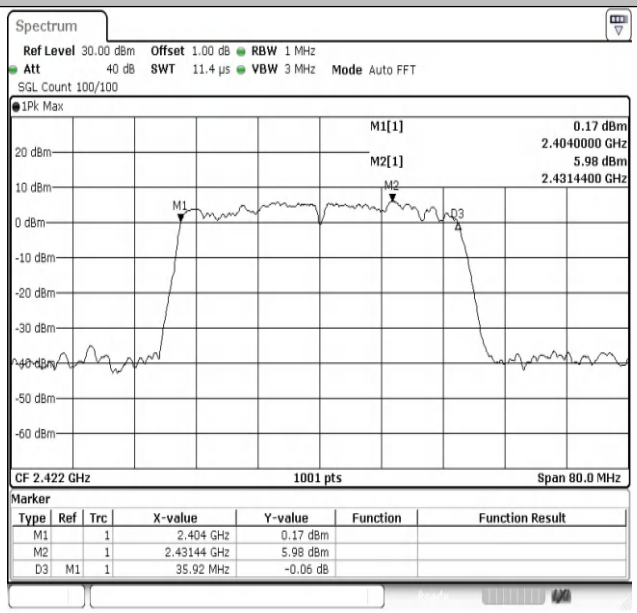
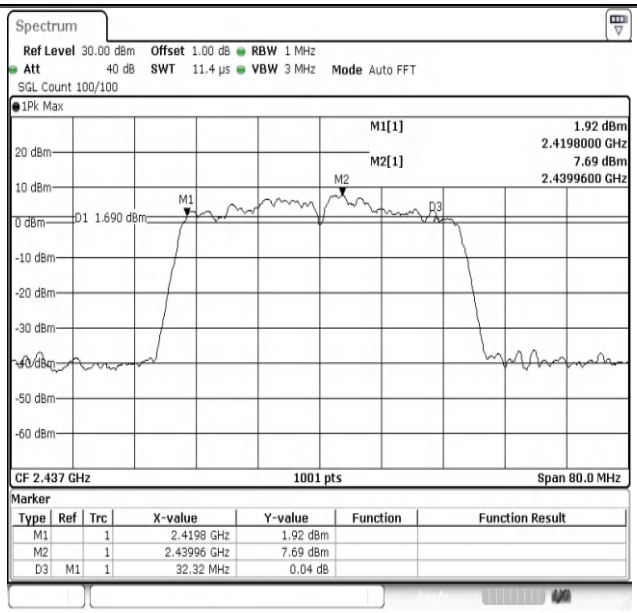
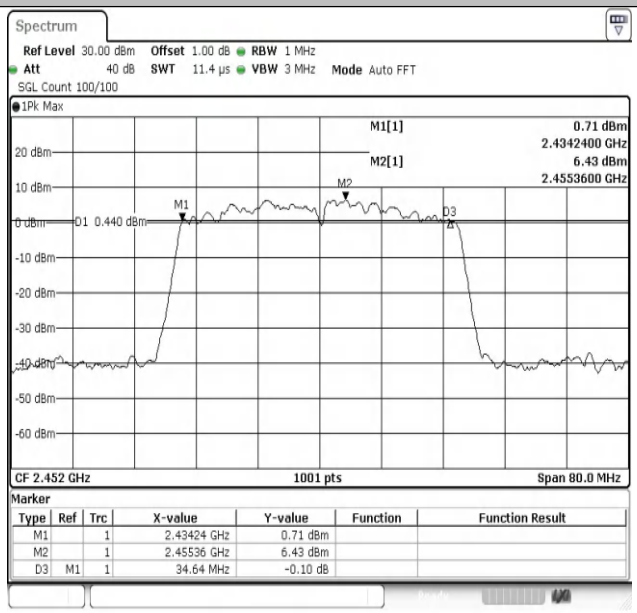


11N40SISO-Ant1-2422-PASS



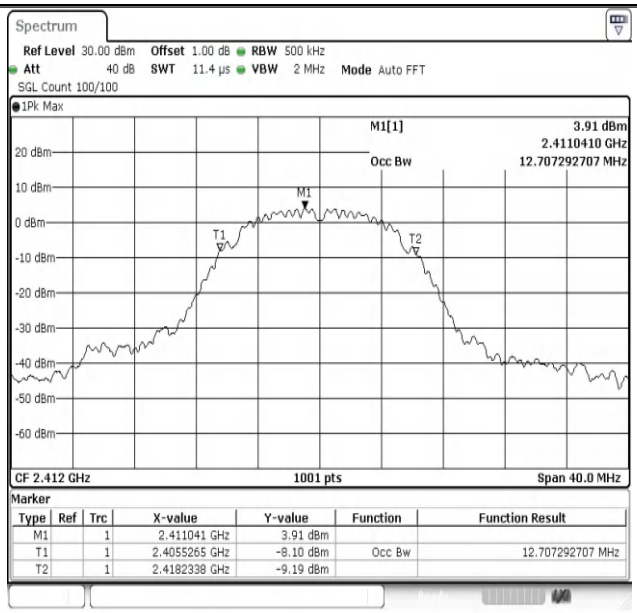
11N40SISO-Ant1-2437-PASS



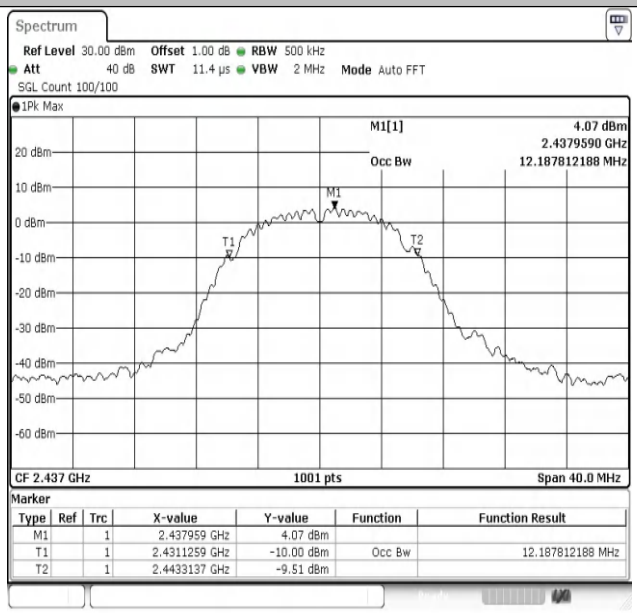
11N40SISO-Ant1-2452-PASS

Appendix B: 99% Occupied Bandwidth

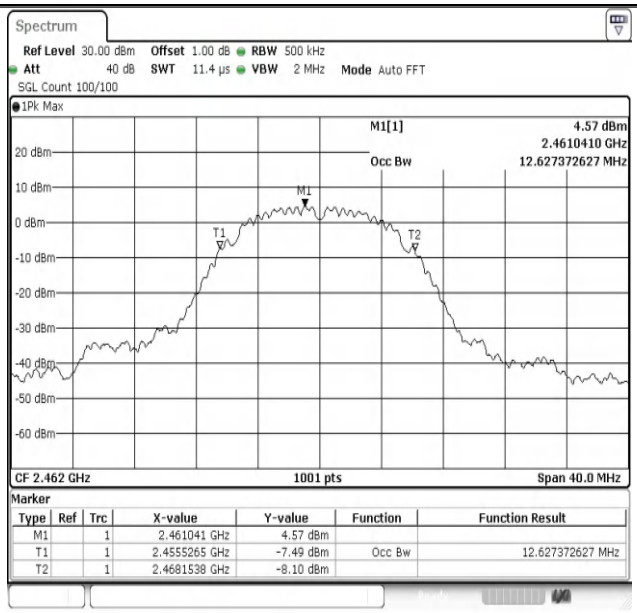
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.707	2405.5265	2418.2338	---	---
11B	Ant1	2437	12.188	2431.1259	2443.3137	---	---
11B	Ant1	2462	12.627	2455.5265	2468.1538	---	---
11G	Ant1	2412	17.023	2403.4885	2420.5115	---	---
11G	Ant1	2437	16.144	2428.9281	2445.0719	---	---
11G	Ant1	2462	16.144	2453.9281	2470.0719	---	---
11N20SISO	Ant1	2412	17.343	2403.2887	2420.6314	---	---
11N20SISO	Ant1	2437	17.303	2428.3287	2445.6314	---	---
11N20SISO	Ant1	2462	17.303	2453.2887	2470.5914	---	---
11N40SISO	Ant1	2422	35.804	2404.1778	2439.9820	---	---
11N40SISO	Ant1	2437	35.804	2419.0979	2454.9021	---	---
11N40SISO	Ant1	2452	35.804	2434.0979	2469.9021	---	---



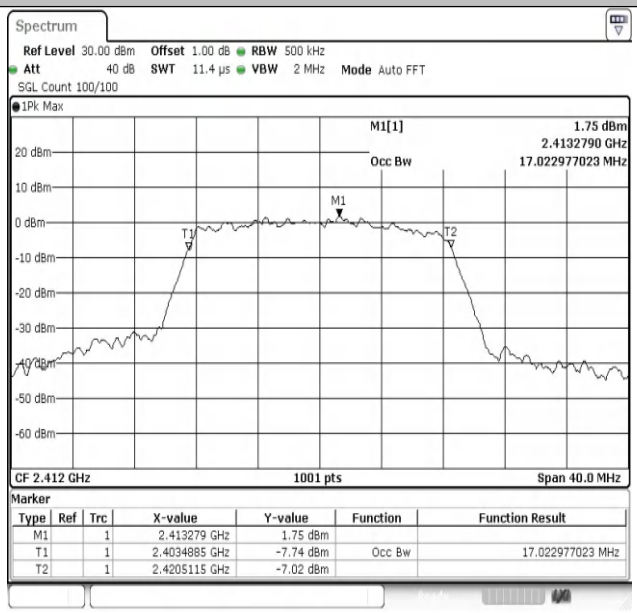
11B-Ant1-2412



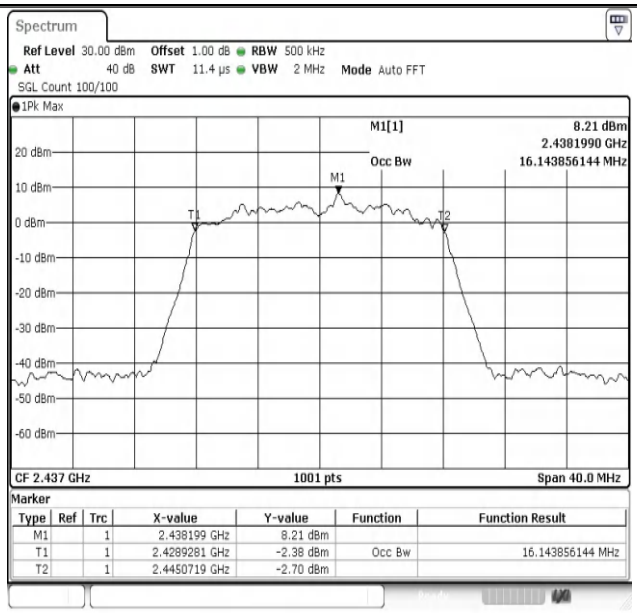
11B-Ant1-2437



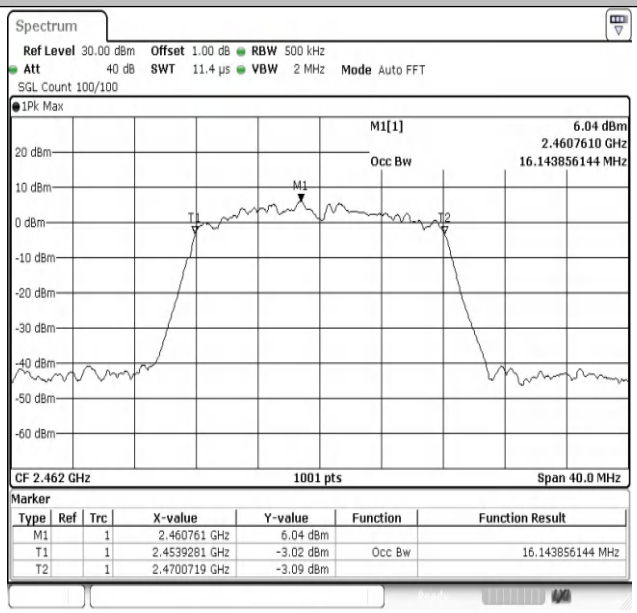
11B-Ant1-2462



11G-Ant1-2412



11G-Ant1-2437



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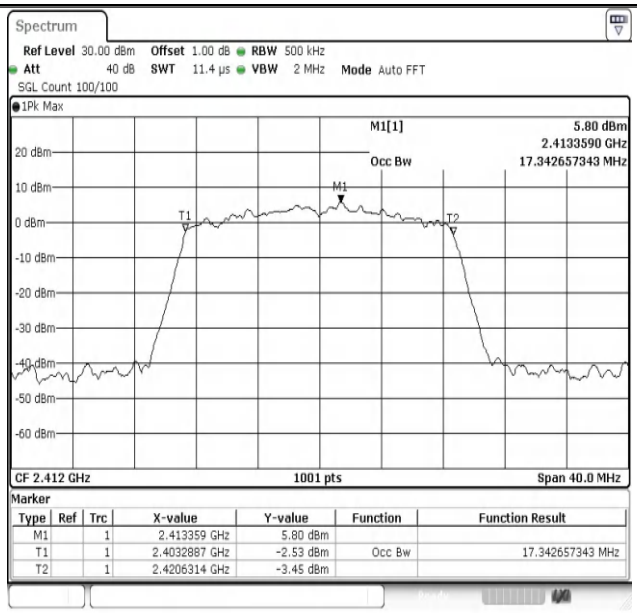
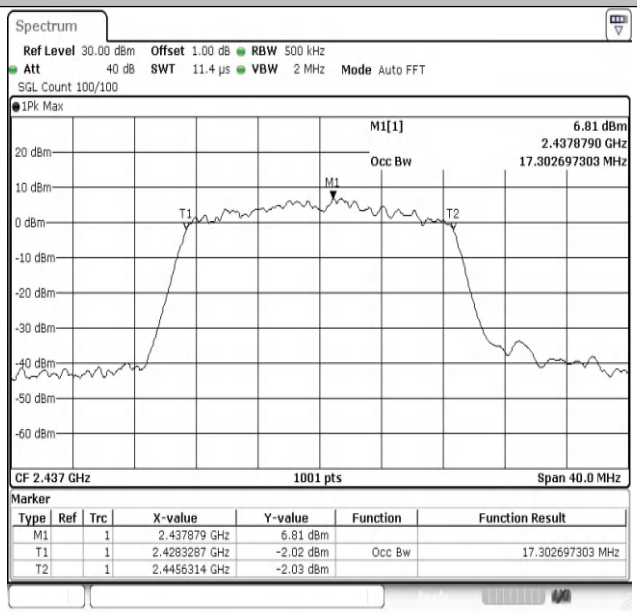
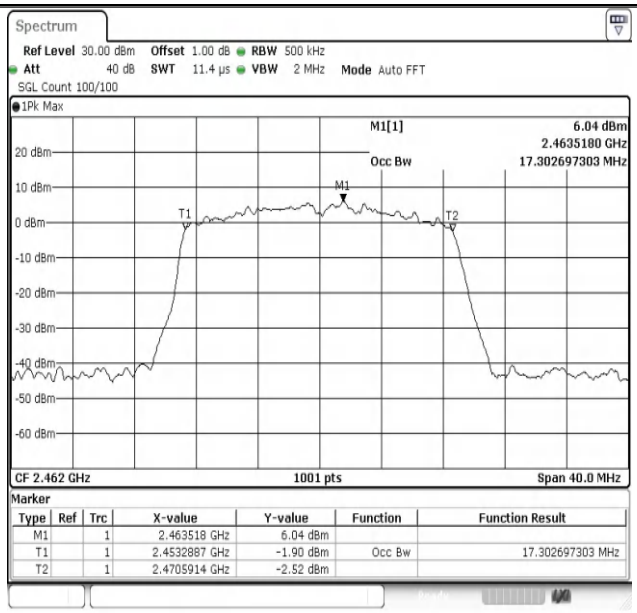


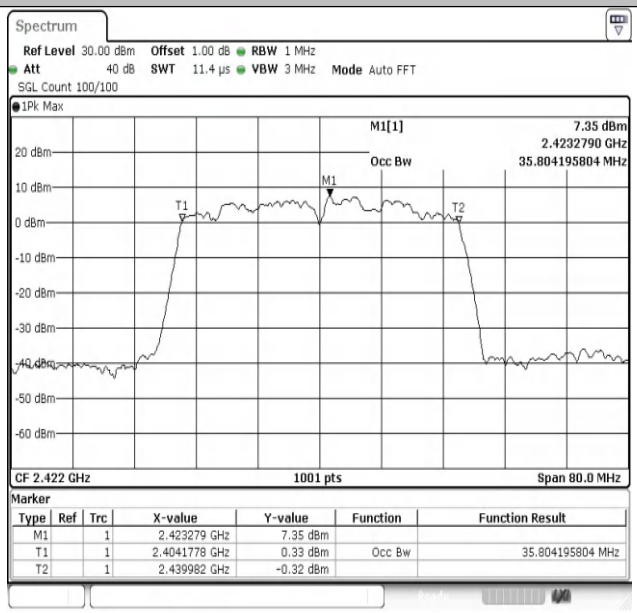
11N20SISO-Ant1-2412



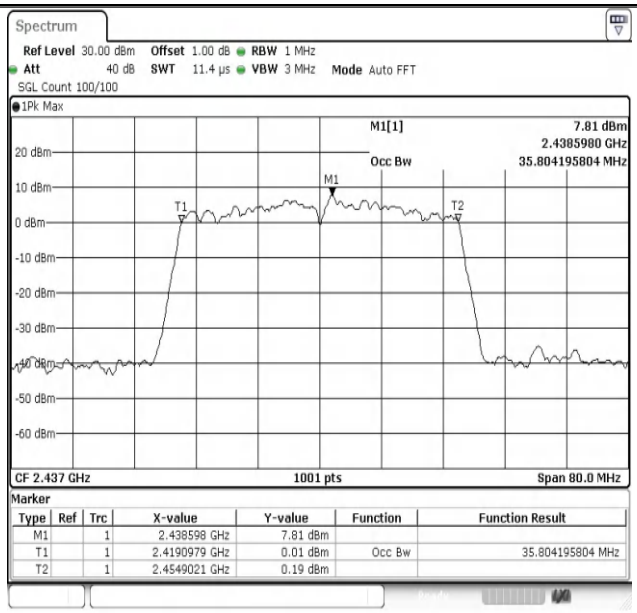
11N20SISO-Ant1-2437



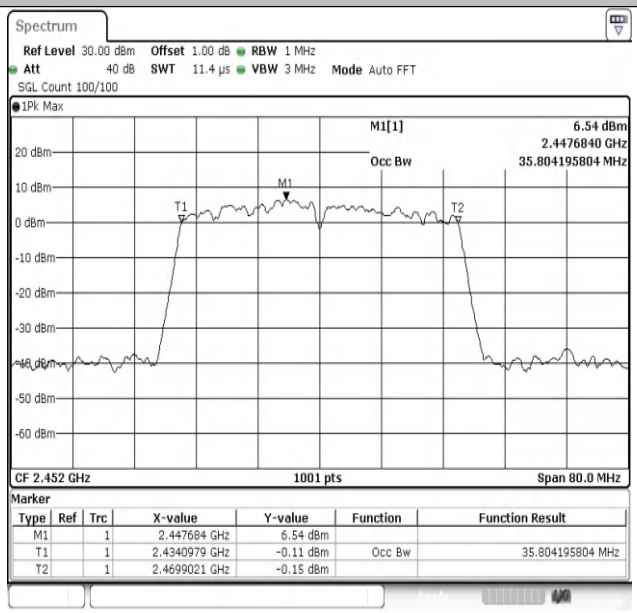
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437

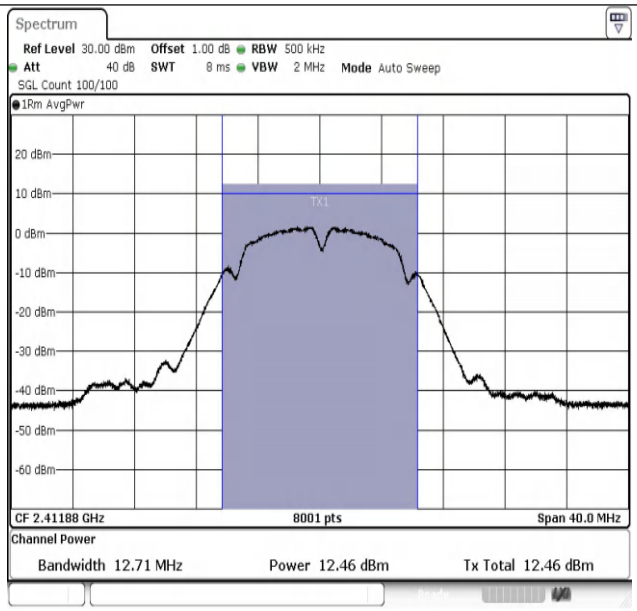


11N40SISO-Ant1-2452

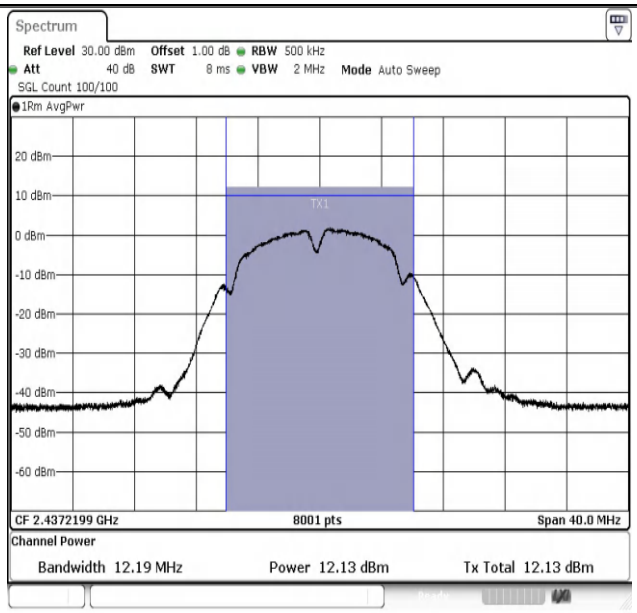
Appendix C: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	12.46	100.00	0.00	12.46	≤30.00	PASS
11B	Ant1	2437	12.13	100.00	0.00	12.13	≤30.00	PASS
11B	Ant1	2462	12.97	100.00	0.00	12.97	≤30.00	PASS
11G	Ant1	2412	12.19	100.00	0.00	12.19	≤30.00	PASS
11G	Ant1	2437	12.02	100.00	0.00	12.02	≤30.00	PASS
11G	Ant1	2462	11.60	100.00	0.00	11.60	≤30.00	PASS
11N20SISO	Ant1	2412	12.00	100.00	0.00	12.00	≤30.00	PASS
11N20SISO	Ant1	2437	12.91	100.00	0.00	12.91	≤30.00	PASS
11N20SISO	Ant1	2462	12.50	100.00	0.00	12.50	≤30.00	PASS
11N40SISO	Ant1	2422	13.06	100.00	0.00	**13.06**	≤30.00	PASS
11N40SISO	Ant1	2437	12.97	100.00	0.00	12.97	≤30.00	PASS
11N40SISO	Ant1	2452	12.62	100.00	0.00	12.62	≤30.00	PASS

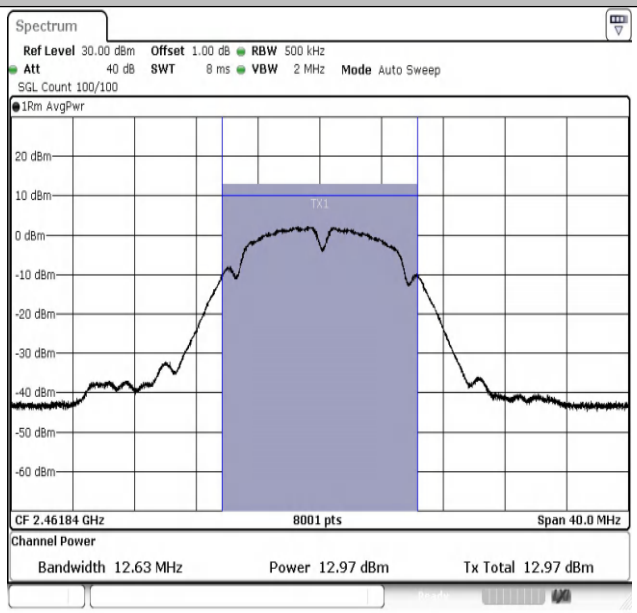
Note：1. The cable loss are compensated in the graph



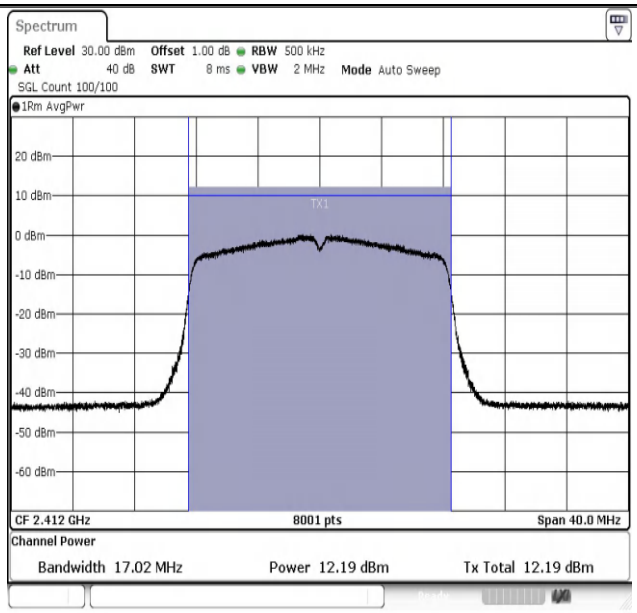
11B-Ant1-2412-PASS



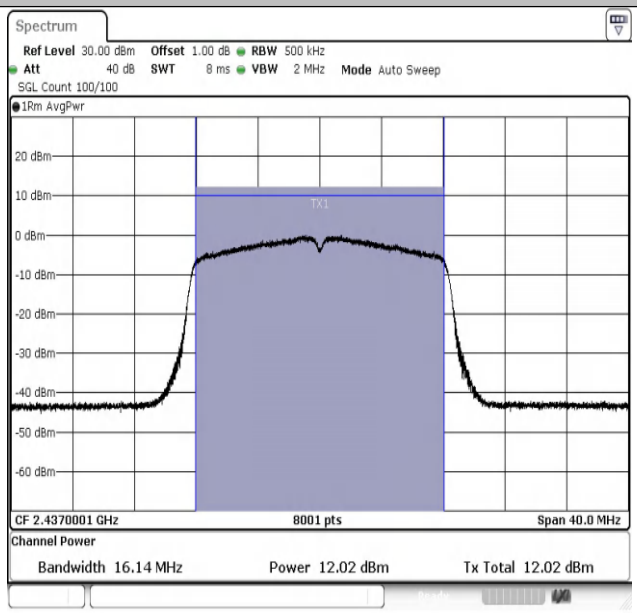
11B-Ant1-2437-PASS



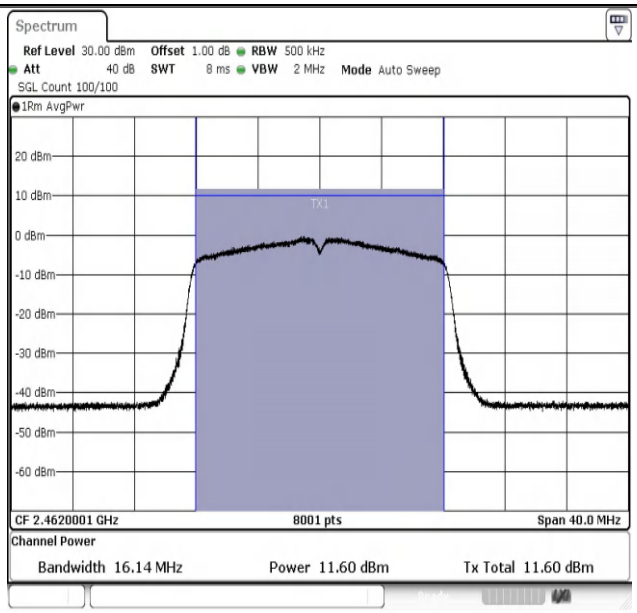
11B-Ant1-2462-PASS



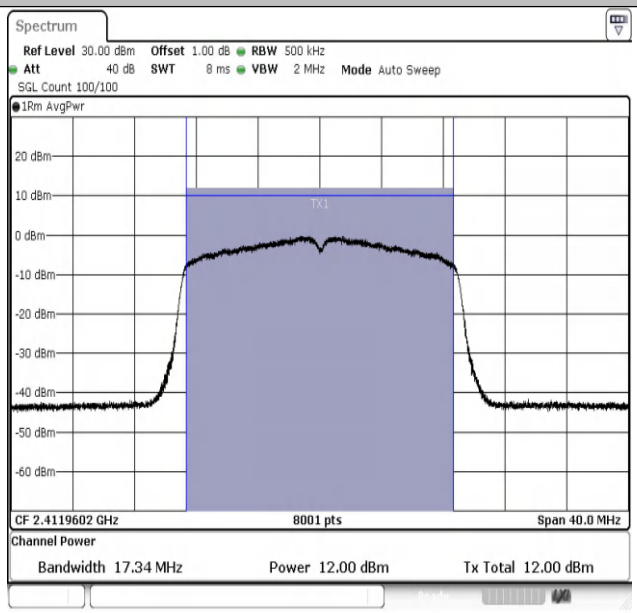
11G-Ant1-2412-PASS



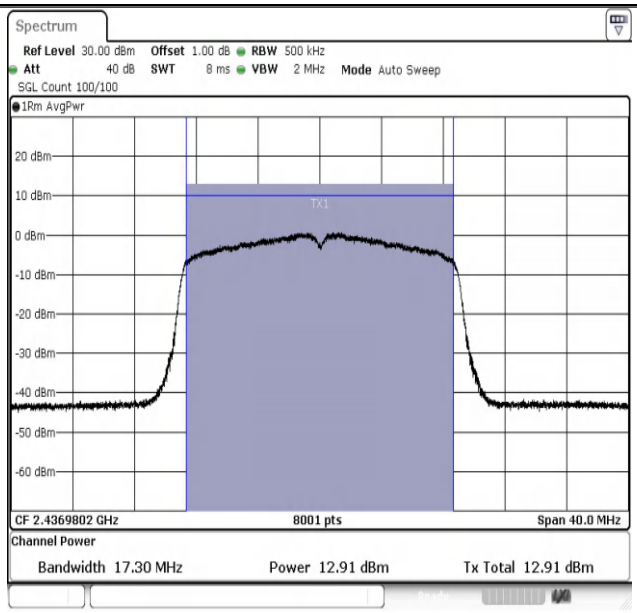
11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



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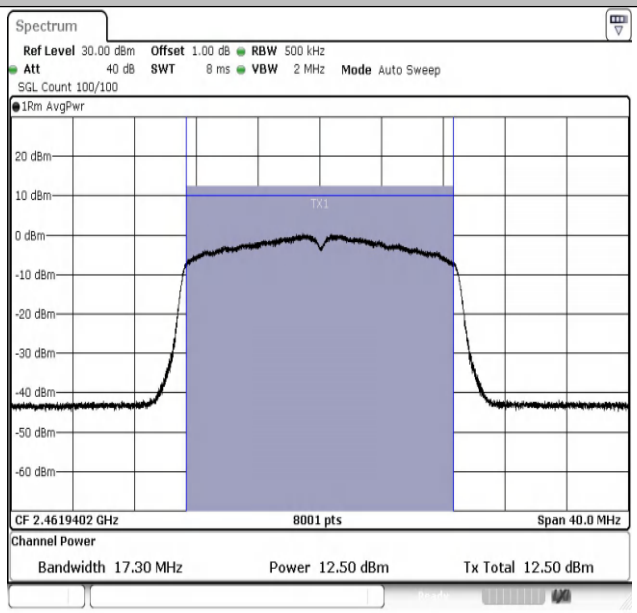
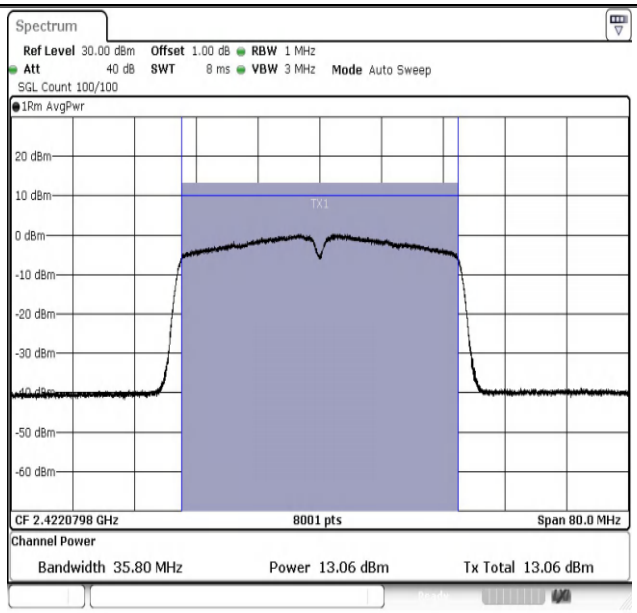
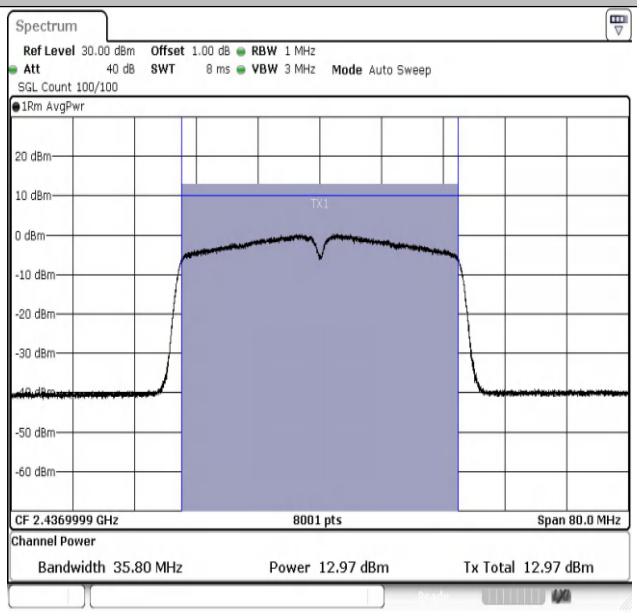


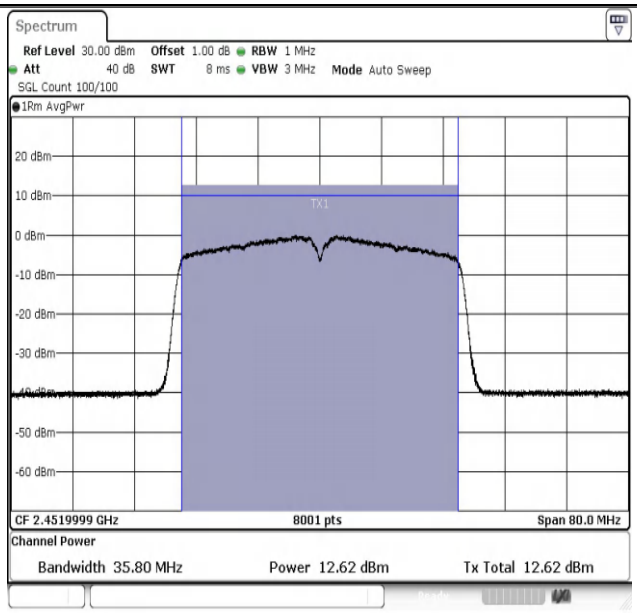
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS

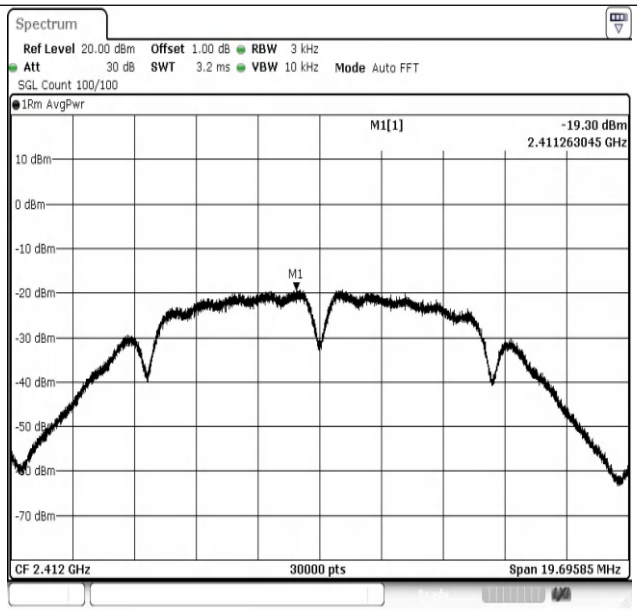


11N40SISO-Ant1-2452-PASS

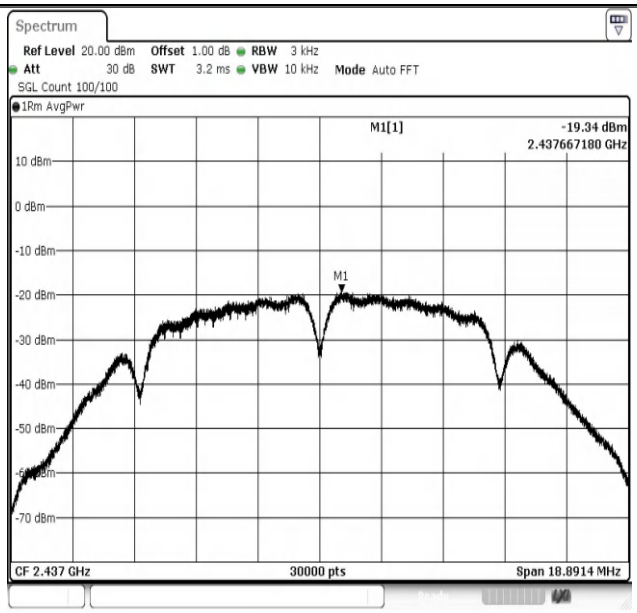
Appendix D: Maximum power spectral density

Test Mode	Antenna	Frequency [MHz]	Reading Result [dBm/3kHz]	DC Factor [dB]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-19.3	0.00	-19.30	≤8.00	PASS
11B	Ant1	2437	-19.34	0.00	-19.34	≤8.00	PASS
11B	Ant1	2462	-18.14	0.00	-18.14	≤8.00	PASS
11G	Ant1	2412	-24.81	0.00	-24.81	≤8.00	PASS
11G	Ant1	2437	-16.12	0.00	-16.12	≤8.00	PASS
11G	Ant1	2462	-16.44	0.00	-16.44	≤8.00	PASS
11N20SISO	Ant1	2412	-14.36	0.00	-14.36	≤8.00	PASS
11N20SISO	Ant1	2437	-13.69	0.00	-13.69	≤8.00	PASS
11N20SISO	Ant1	2462	-13.74	0.00	-13.74	≤8.00	PASS
11N40SISO	Ant1	2422	-16.92	0.00	-16.92	≤8.00	PASS
11N40SISO	Ant1	2437	-16.89	0.00	-16.89	≤8.00	PASS
11N40SISO	Ant1	2452	-17.12	0.00	-17.12	≤8.00	PASS

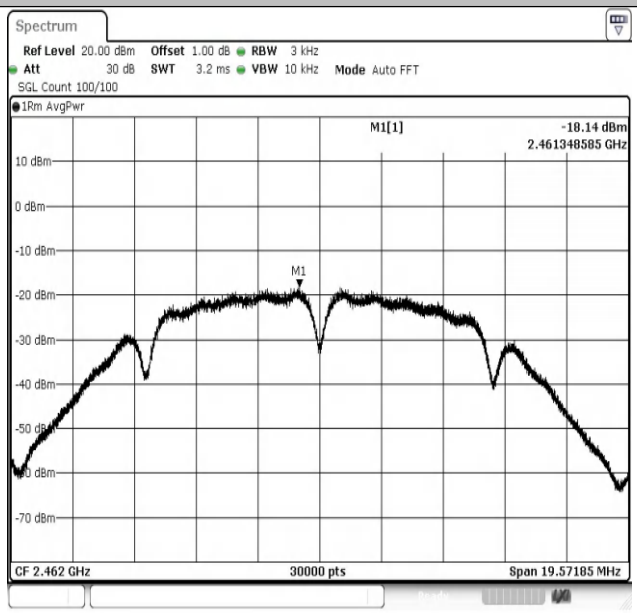
Note：1. The cable loss are compensated in the graph.



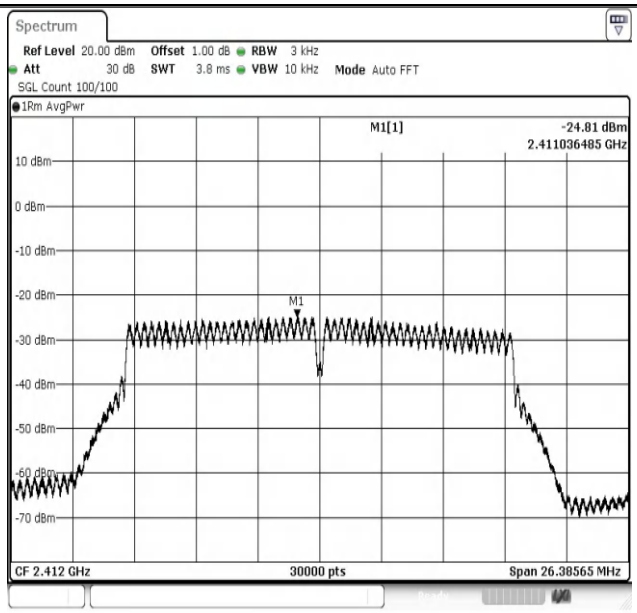
11B-Ant1-2412-PASS



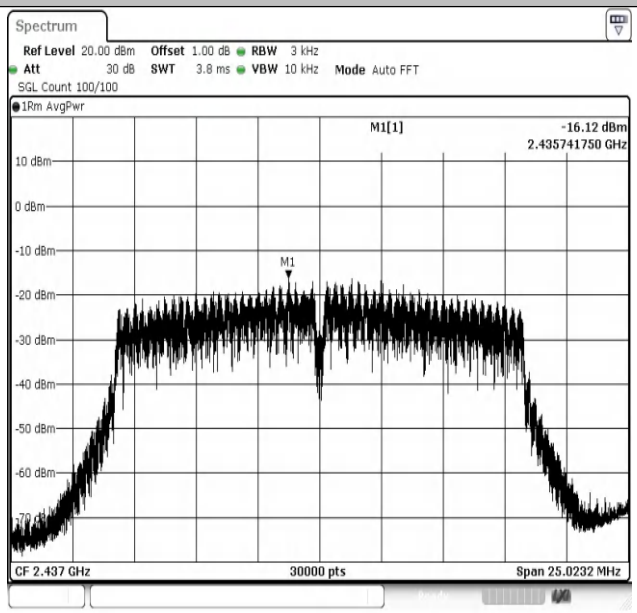
11B-Ant1-2437-PASS



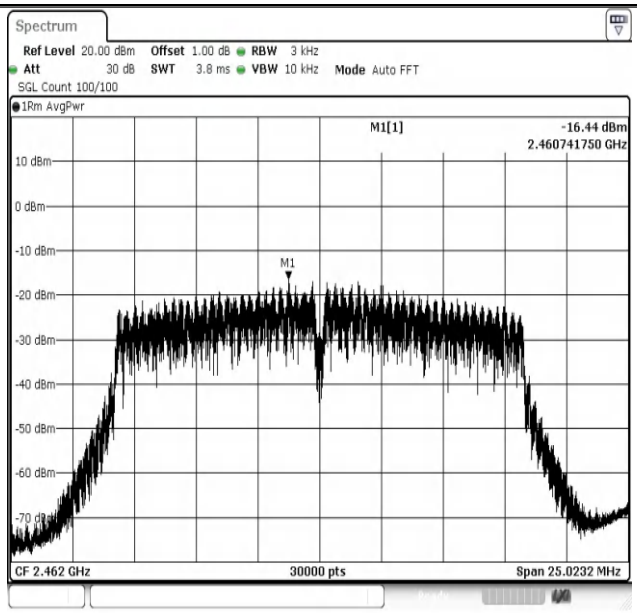
11B-Ant1-2462-PASS



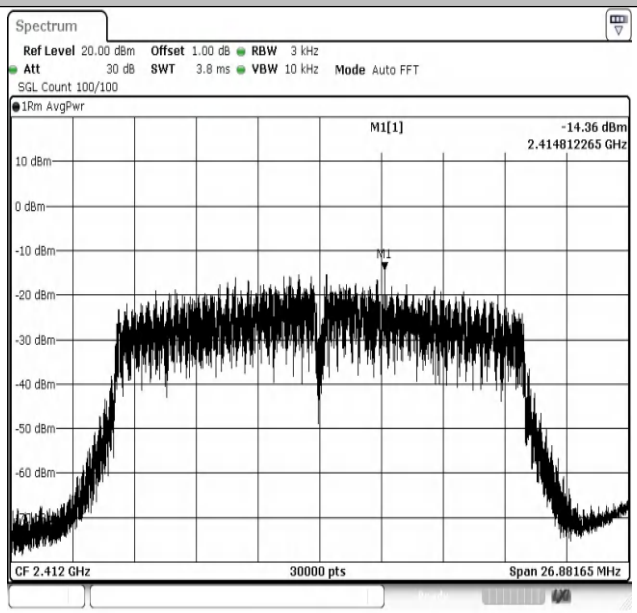
11G-Ant1-2412-PASS



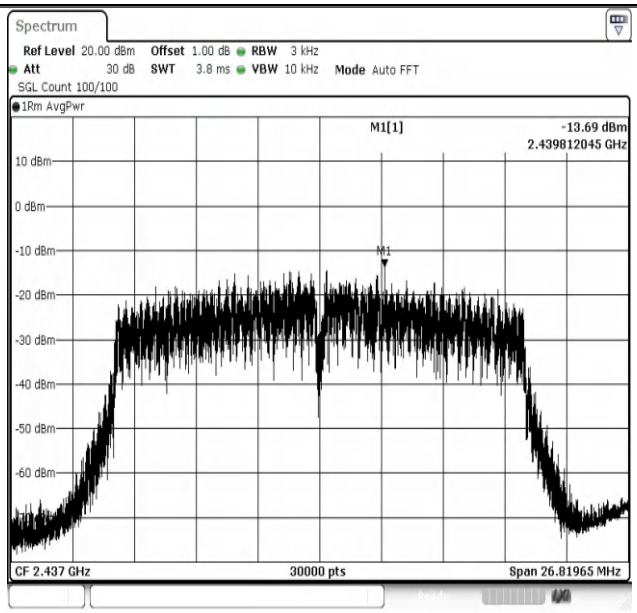
11G-Ant1-2437-PASS



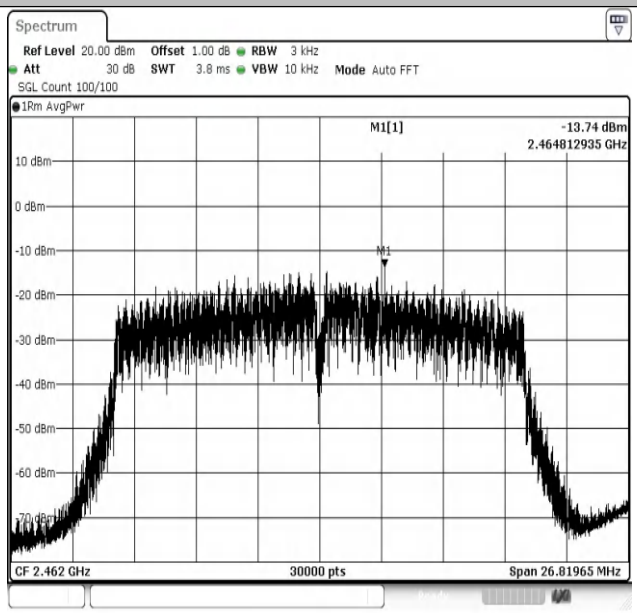
11G-Ant1-2462-PASS



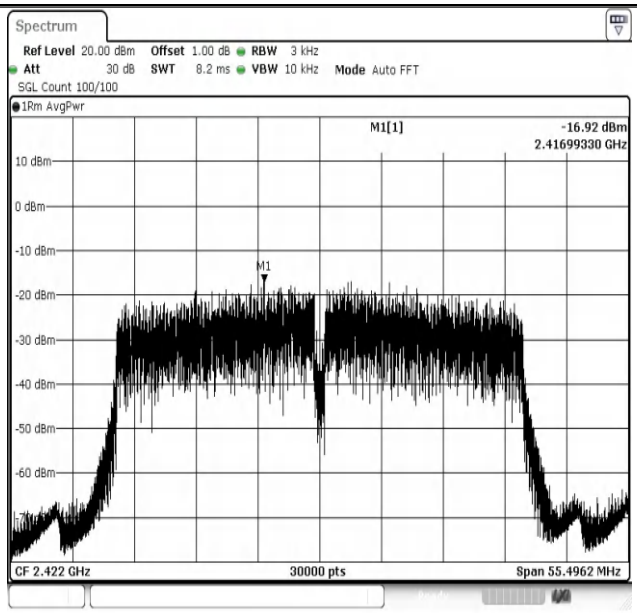
11N20SISO-Ant1-2412-PASS



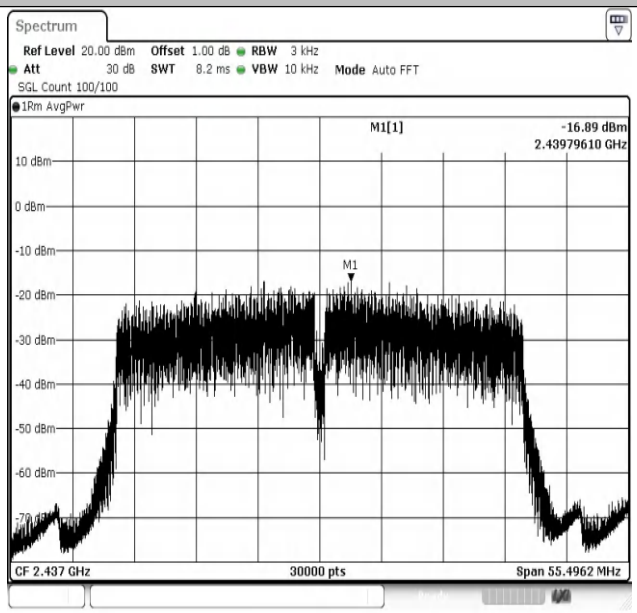
11N20SISO-Ant1-2437-PASS



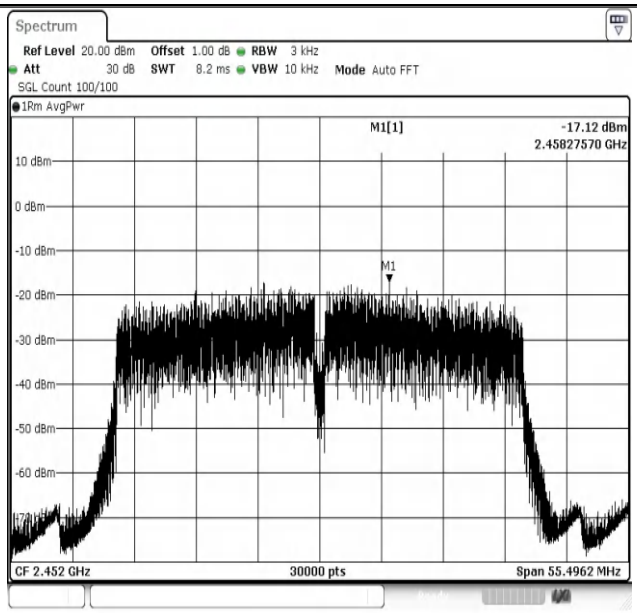
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS

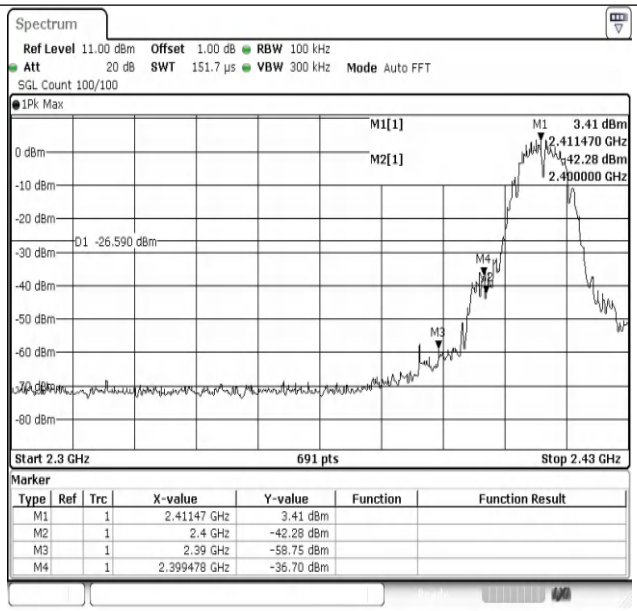


11N40SISO-Ant1-2452-PASS

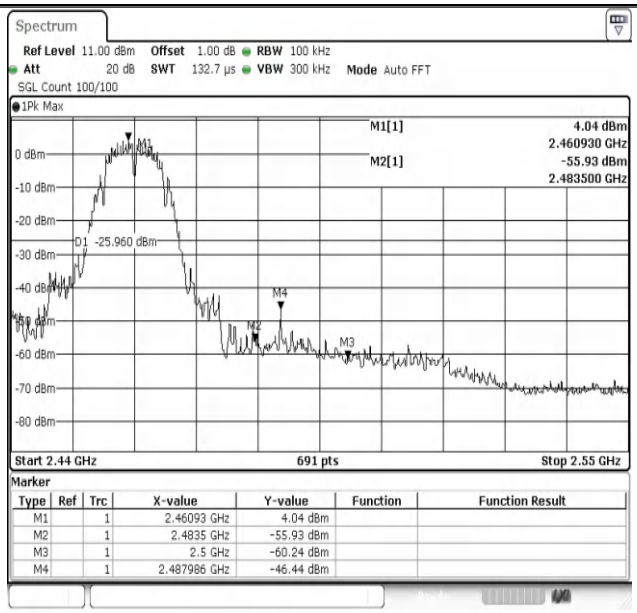
Appendix E: Conducted Band edge

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.41	-36.7	≤-26.59	PASS
11B	Ant1	High	2462	4.04	-46.44	≤-25.96	PASS
11G	Ant1	Low	2412	2.27	-48.57	≤-27.73	PASS
11G	Ant1	High	2462	1.08	-57.01	≤-28.92	PASS
11N20SISO	Ant1	Low	2412	2.25	-48.13	≤-27.75	PASS
11N20SISO	Ant1	High	2462	2.17	-55.09	≤-27.83	PASS
11N40SISO	Ant1	Low	2422	0.64	-48.39	≤-29.36	PASS
11N40SISO	Ant1	High	2452	-0.27	-49.81	≤-30.27	PASS

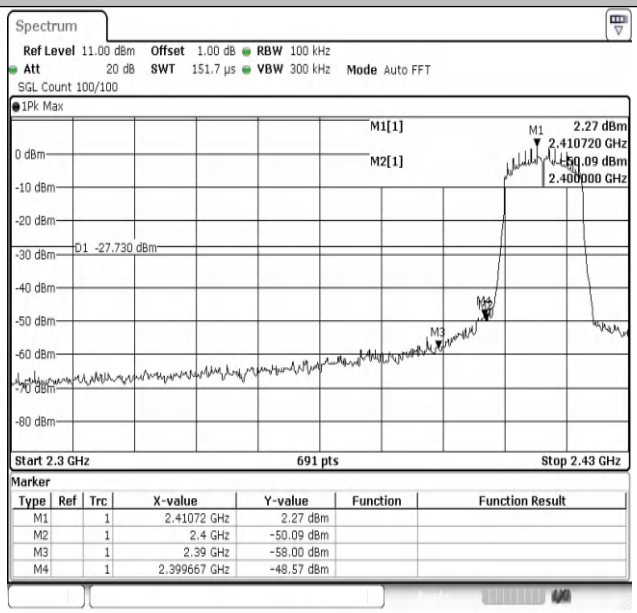
Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.



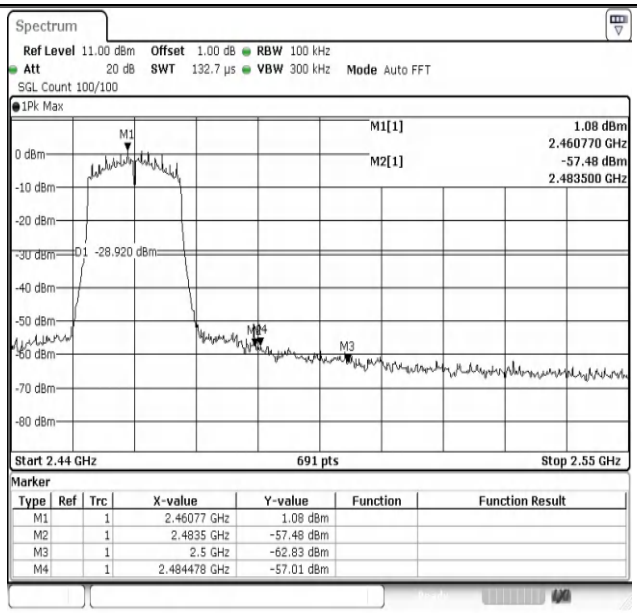
11B-Ant1-2412-PASS



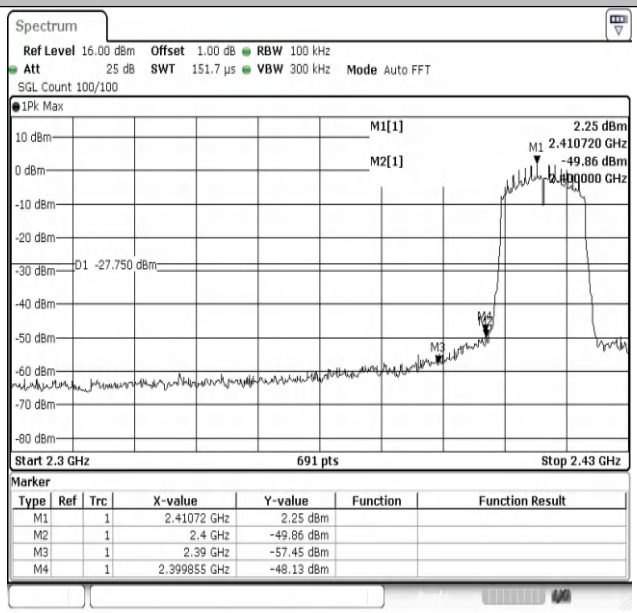
11B-Ant1-2462-PASS



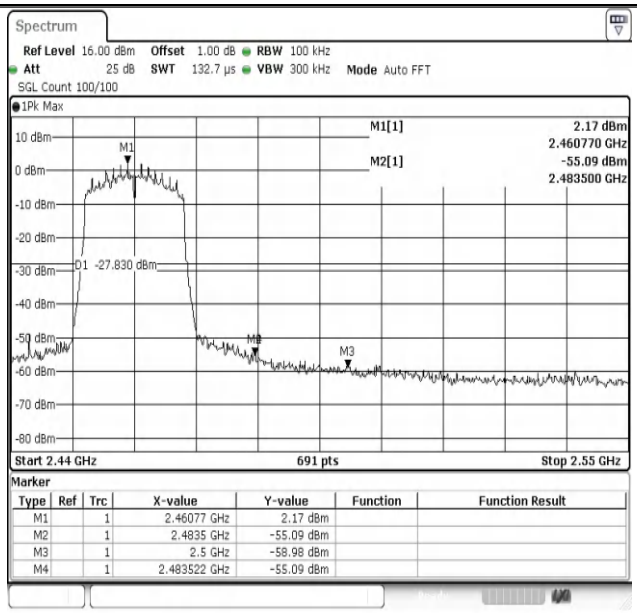
11G-Ant1-2412-PASS



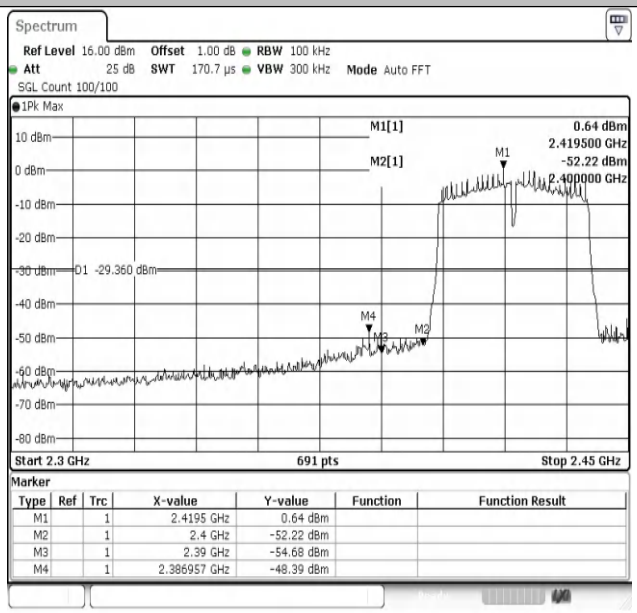
11G-Ant1-2462-PASS



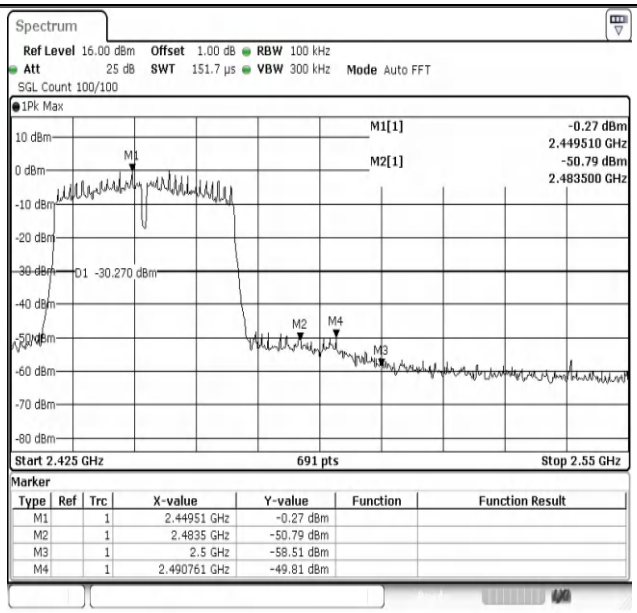
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



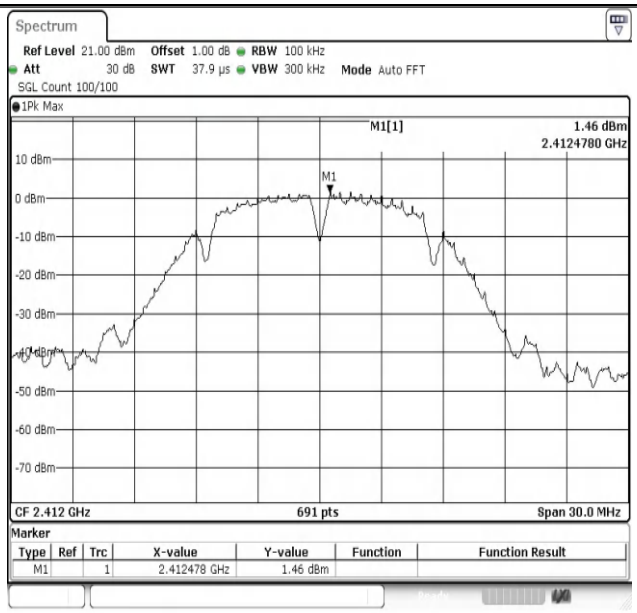
11N40SISO-Ant1-2422-PASS



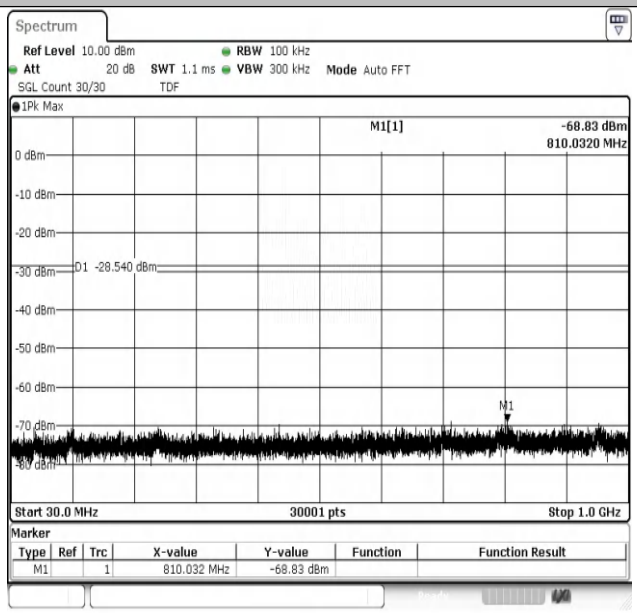
11N40SISO-Ant1-2452-PASS

Appendix F: Conducted Spurious Emission

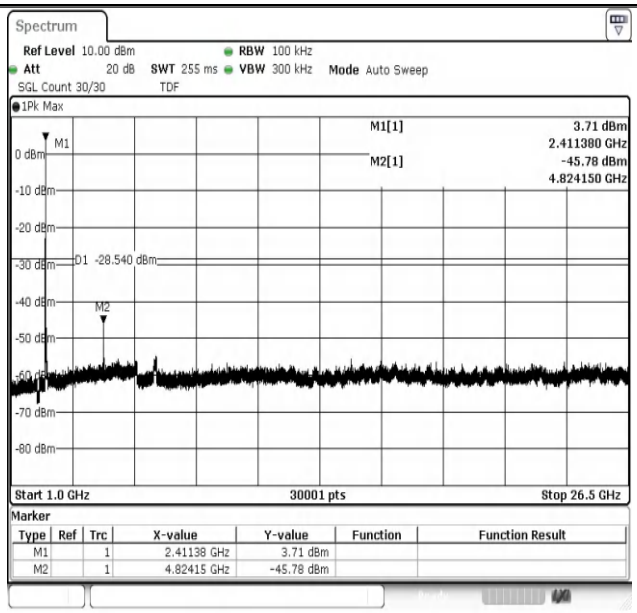
Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	1.46	1.46	---	PASS
11B	Ant1	2412	30~1000	1.46	-68.83	≤-28.54	PASS
11B	Ant1	2412	1000~26500	1.46	-45.78	≤-28.54	PASS
11B	Ant1	2437	0~Reference	2.85	2.85	---	PASS
11B	Ant1	2437	30~1000	2.85	-68.91	≤-27.15	PASS
11B	Ant1	2437	1000~26500	2.85	-46.92	≤-27.15	PASS
11B	Ant1	2462	0~Reference	3.95	3.95	---	PASS
11B	Ant1	2462	30~1000	3.95	-68.4	≤-26.05	PASS
11B	Ant1	2462	1000~26500	3.95	-47.44	≤-26.05	PASS
11G	Ant1	2412	0~Reference	2.44	2.44	---	PASS
11G	Ant1	2412	30~1000	2.44	-68.99	≤-27.56	PASS
11G	Ant1	2412	1000~26500	2.44	-54.51	≤-27.56	PASS
11G	Ant1	2437	0~Reference	1.85	1.85	---	PASS
11G	Ant1	2437	30~1000	1.85	-68.8	≤-28.15	PASS
11G	Ant1	2437	1000~26500	1.85	-55.04	≤-28.15	PASS
11G	Ant1	2462	0~Reference	-1.24	-1.24	---	PASS
11G	Ant1	2462	30~1000	-1.24	-68.43	≤-31.24	PASS
11G	Ant1	2462	1000~26500	-1.24	-55.03	≤-31.24	PASS
11N20SISO	Ant1	2412	0~Reference	1.68	1.68	---	PASS
11N20SISO	Ant1	2412	30~1000	1.68	-68.94	≤-28.32	PASS
11N20SISO	Ant1	2412	1000~26500	1.68	-54.92	≤-28.32	PASS
11N20SISO	Ant1	2437	0~Reference	1.96	1.96	---	PASS
11N20SISO	Ant1	2437	30~1000	1.96	-68.39	≤-28.04	PASS
11N20SISO	Ant1	2437	1000~26500	1.96	-54.6	≤-28.04	PASS
11N20SISO	Ant1	2462	0~Reference	2.76	2.76	---	PASS
11N20SISO	Ant1	2462	30~1000	2.76	-68.75	≤-27.24	PASS
11N20SISO	Ant1	2462	1000~26500	2.76	-55.12	≤-27.24	PASS
11N40SISO	Ant1	2422	0~Reference	0.49	0.49	---	PASS
11N40SISO	Ant1	2422	30~1000	0.49	-69	≤-29.51	PASS
11N40SISO	Ant1	2422	1000~26500	0.49	-53.18	≤-29.51	PASS
11N40SISO	Ant1	2437	0~Reference	0.68	0.68	---	PASS
11N40SISO	Ant1	2437	30~1000	0.68	-69.4	≤-29.32	PASS
11N40SISO	Ant1	2437	1000~26500	0.68	-53.36	≤-29.32	PASS
11N40SISO	Ant1	2452	0~Reference	0.67	0.67	---	PASS
11N40SISO	Ant1	2452	30~1000	0.67	-68.76	≤-29.33	PASS
11N40SISO	Ant1	2452	1000~26500	0.67	-54.04	≤-29.33	PASS



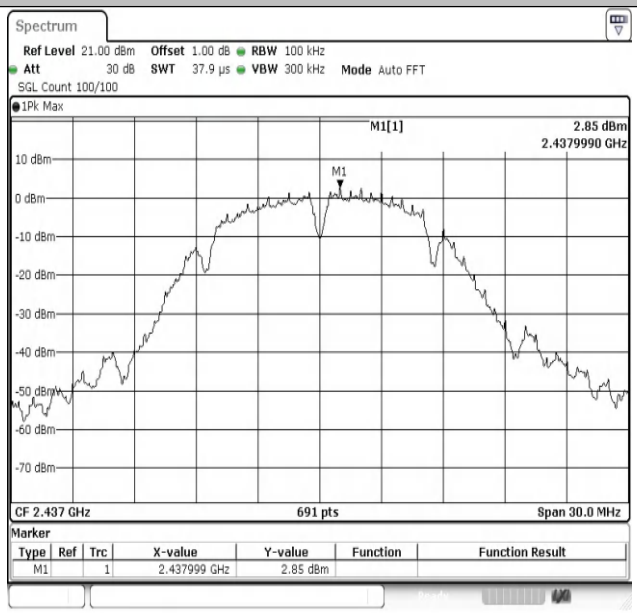
11B-Ant1-2412-0~Reference-PASS



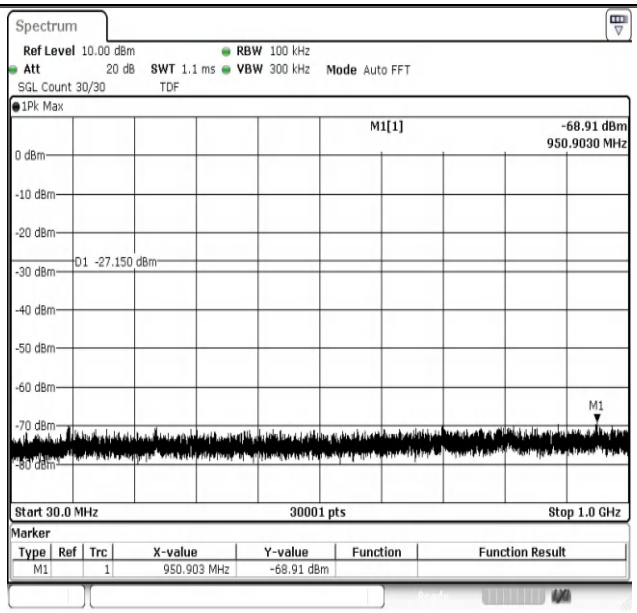
11B-Ant1-2412-30~1000-PASS



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



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



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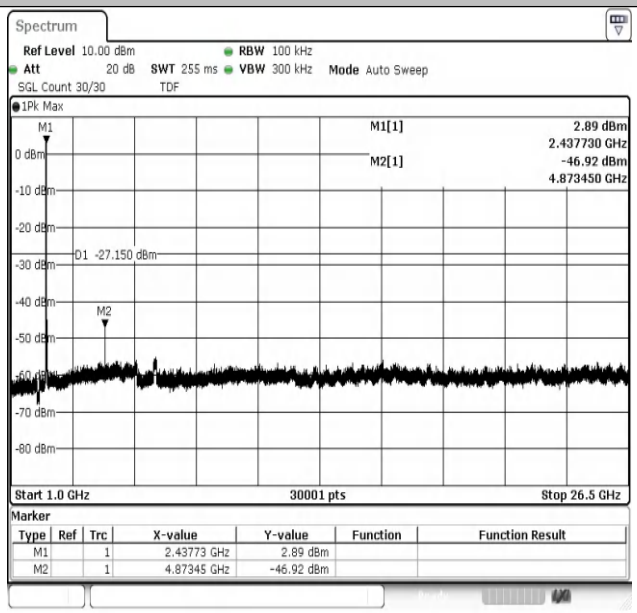

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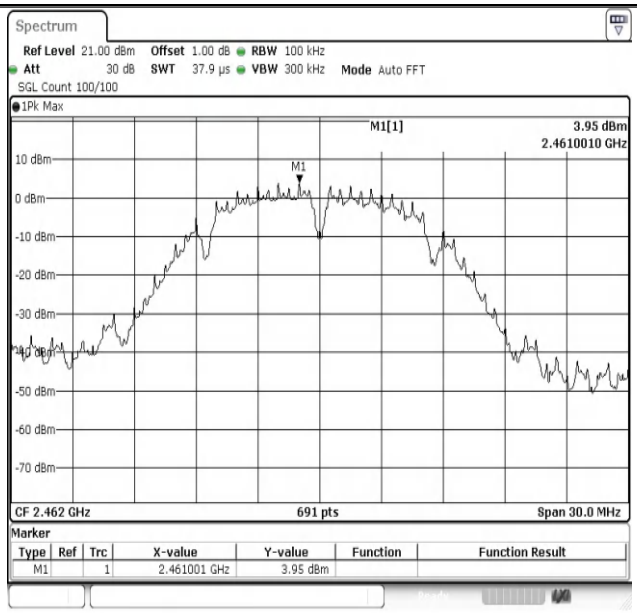
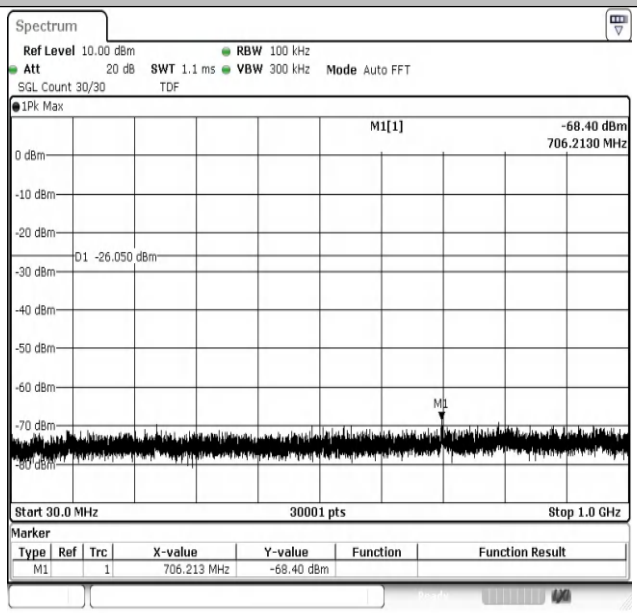


11B-Ant1-2462-0~Reference-PASS



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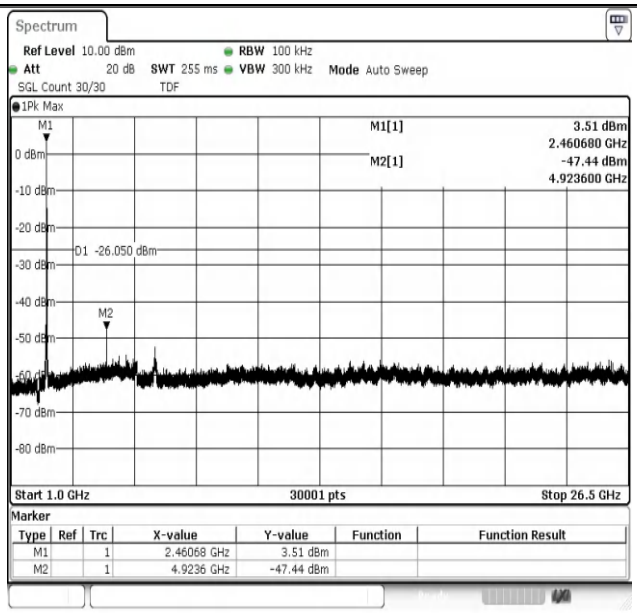

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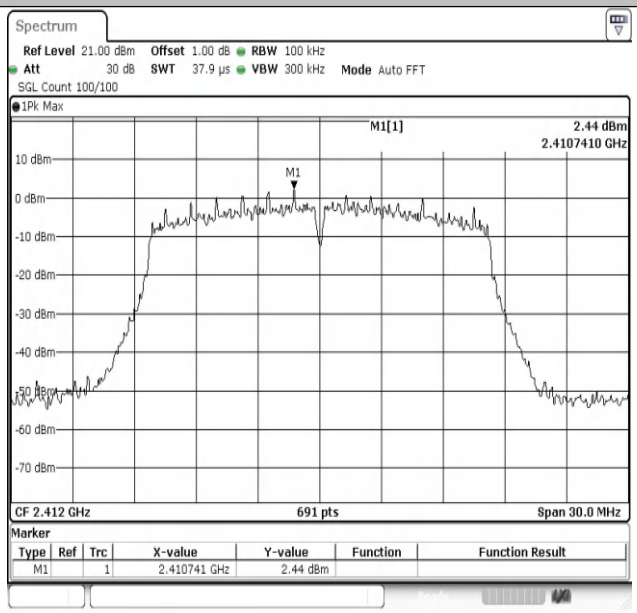

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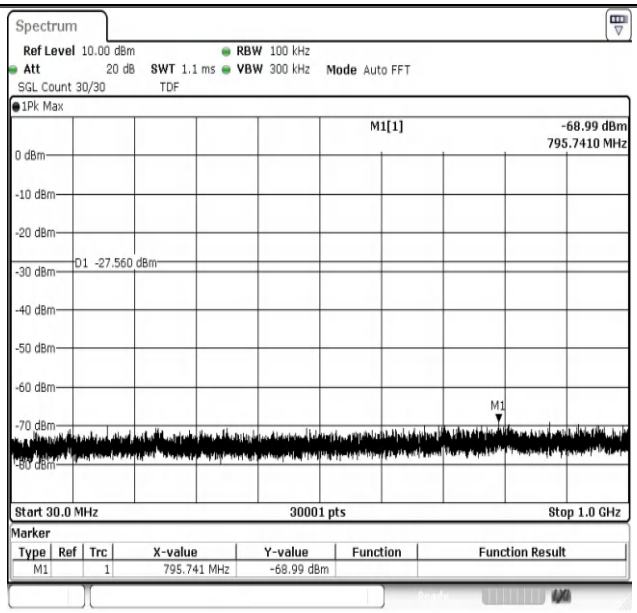
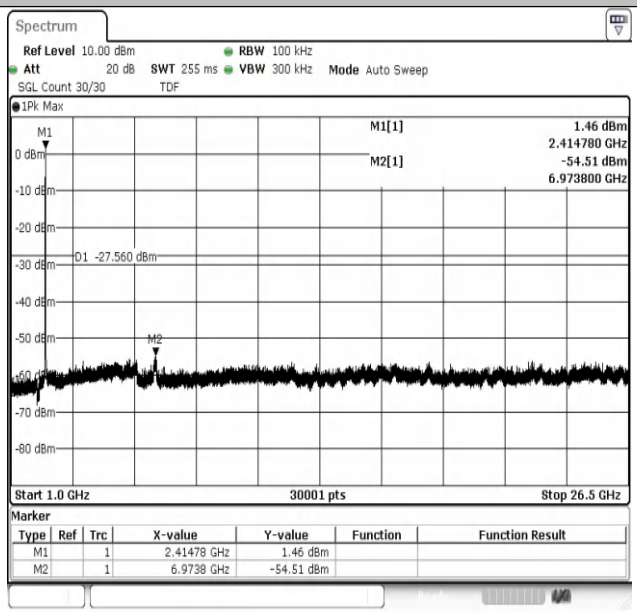
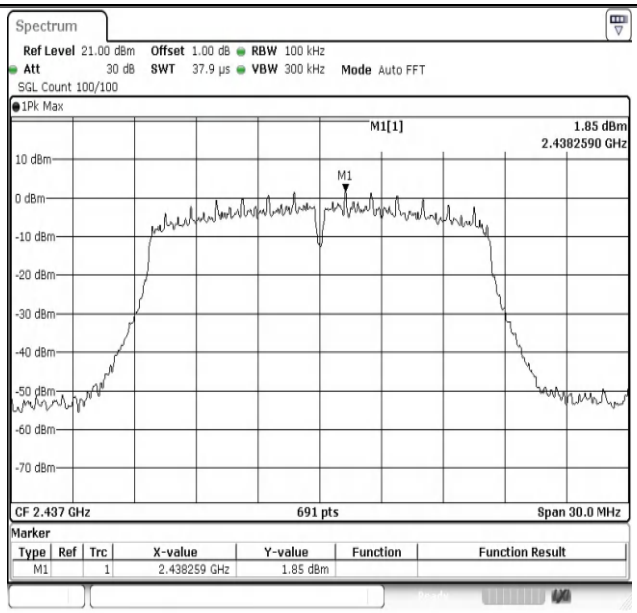


11G-Ant1-2412-30~1000-PASS



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



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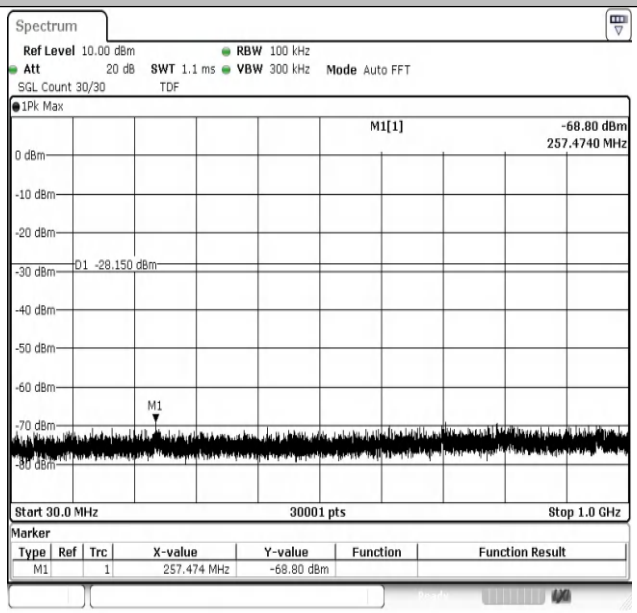

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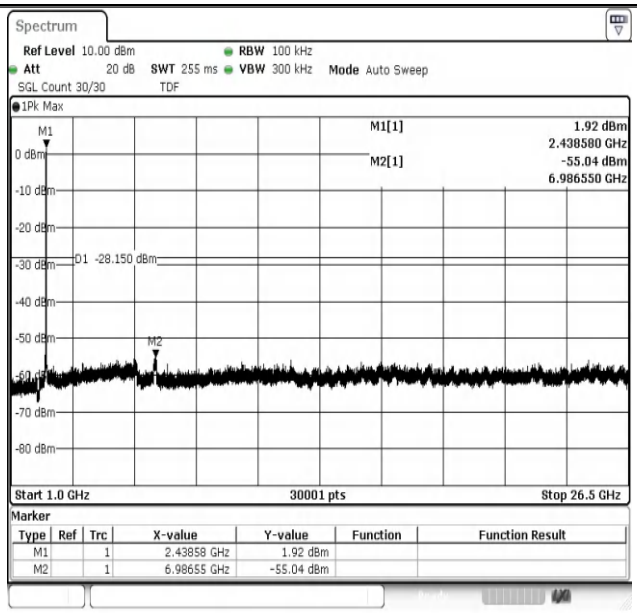
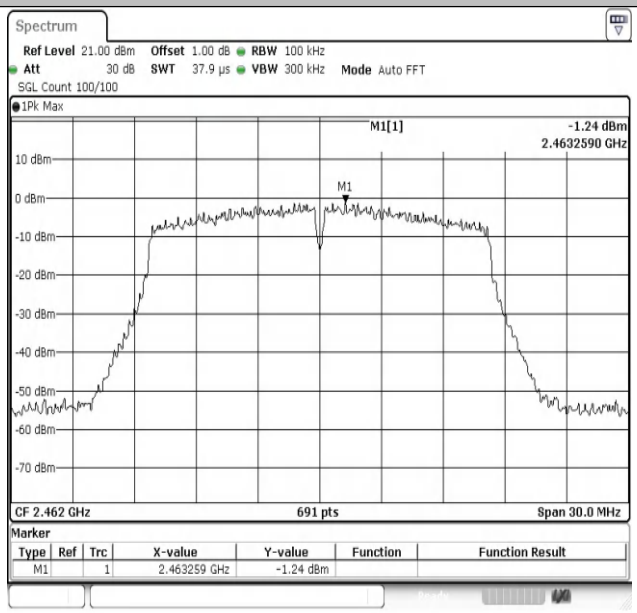


11G-Ant1-2437-1000~26500-PASS



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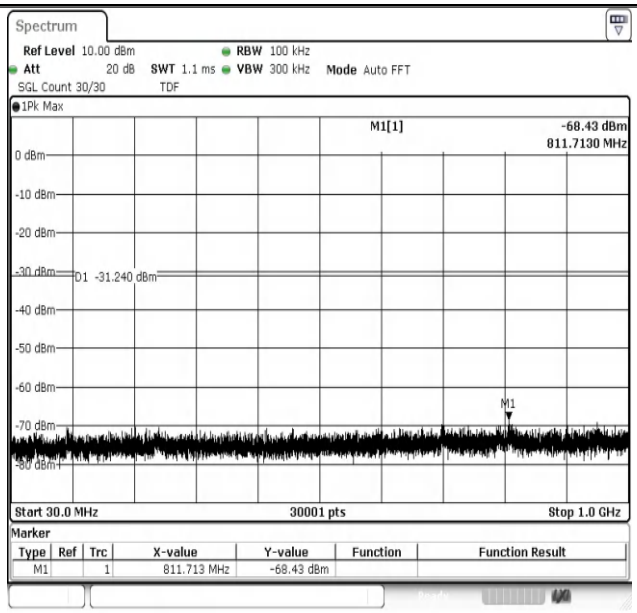

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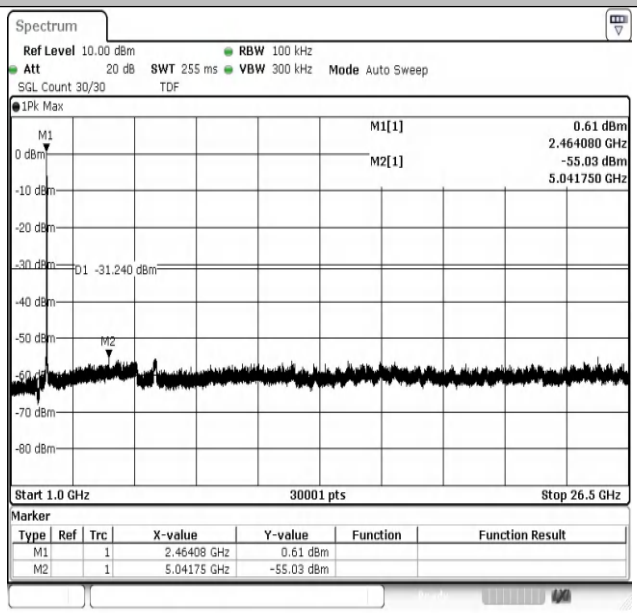

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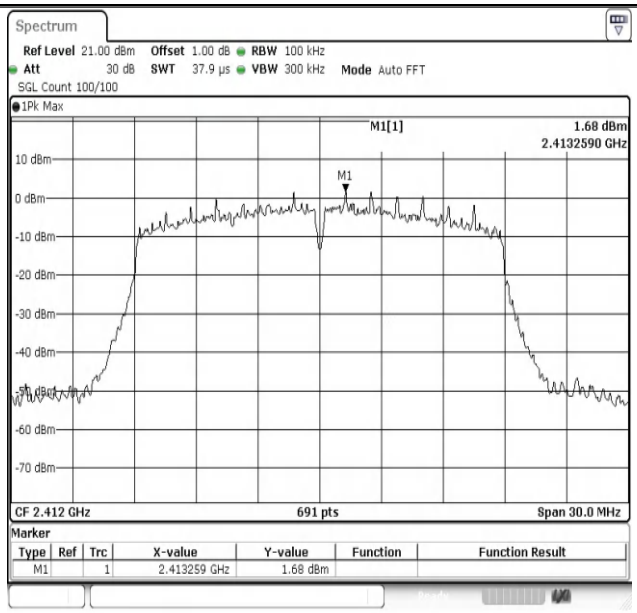

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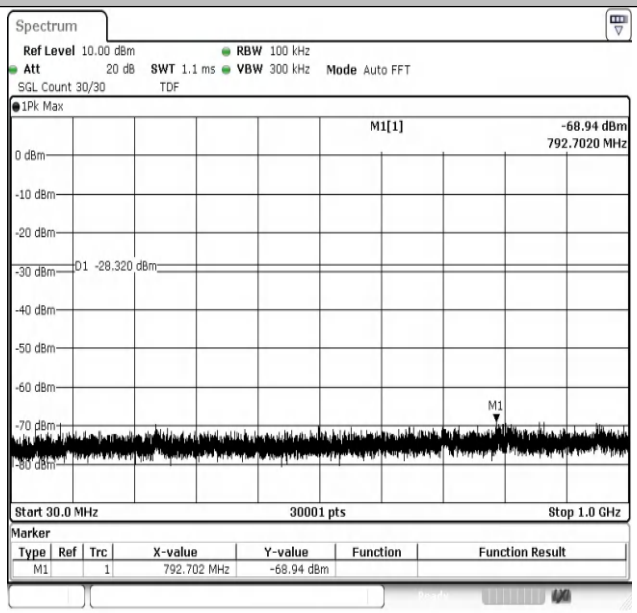

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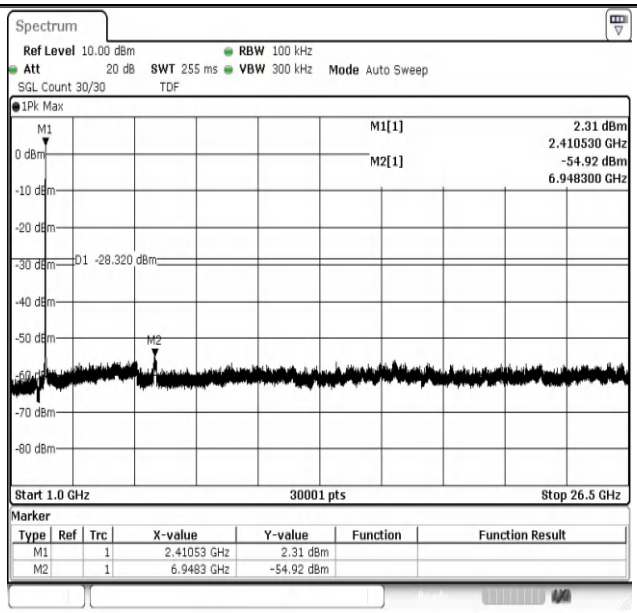

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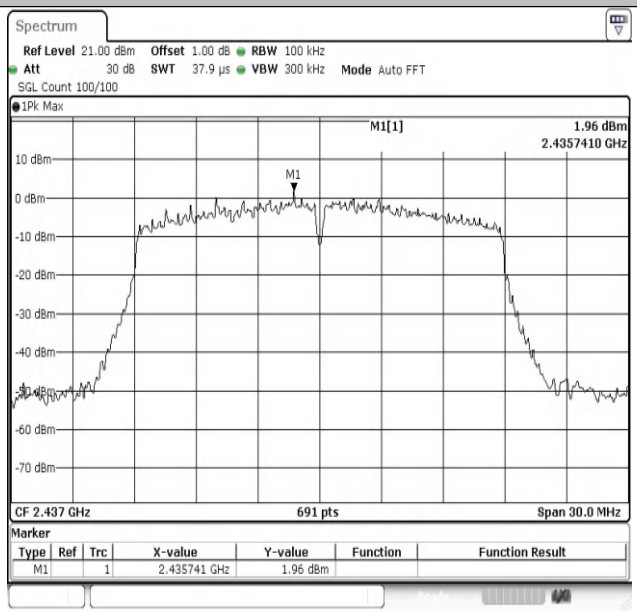
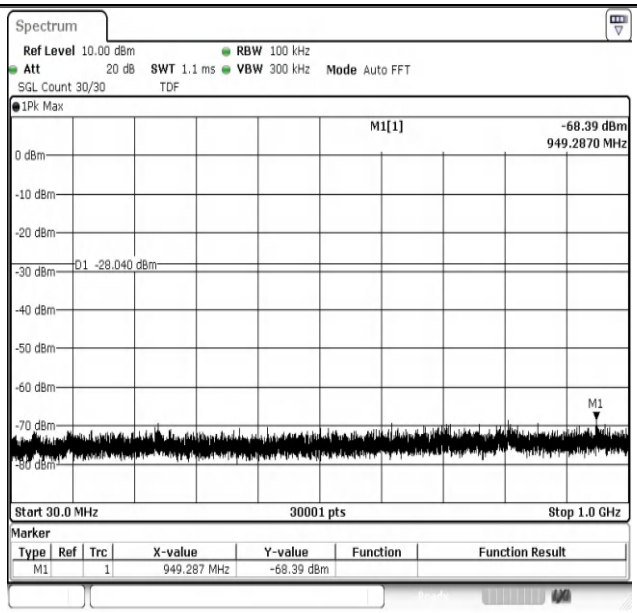


11N20SISO-Ant1-2437-0~Reference-PASS



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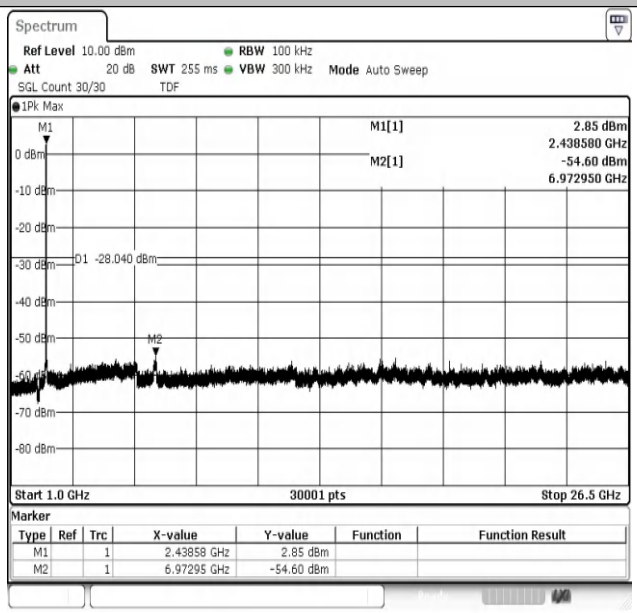

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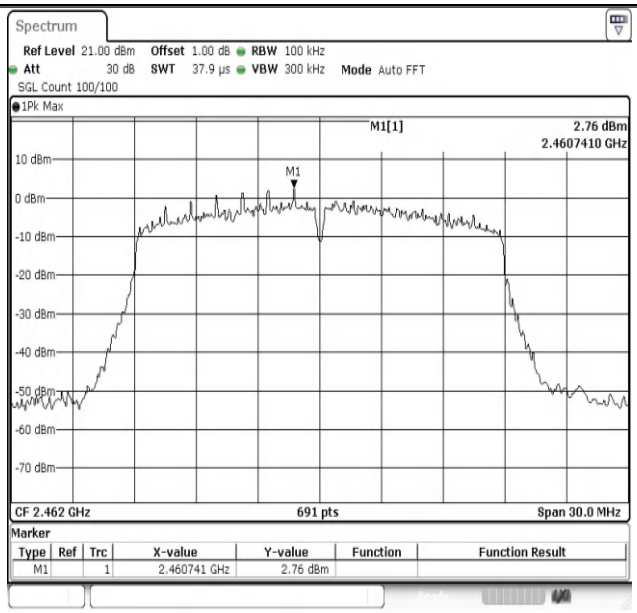

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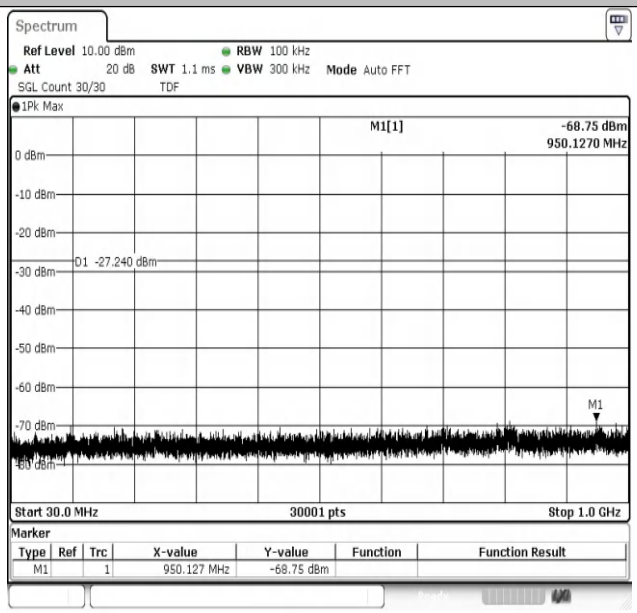
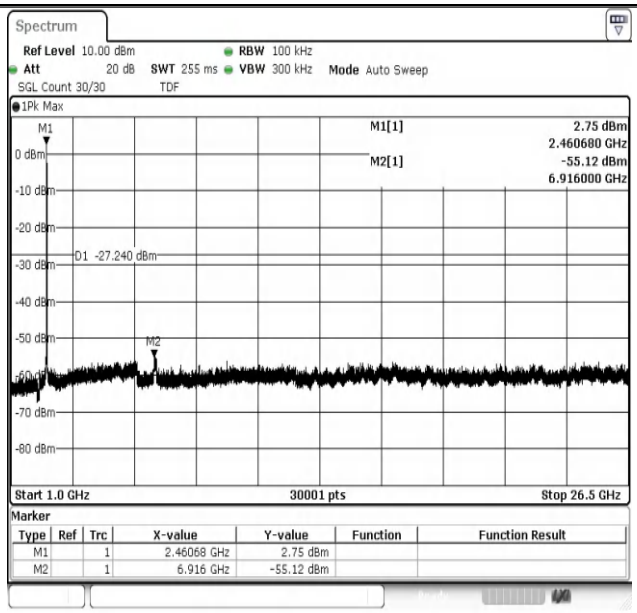


11N20SISO-Ant1-2462-30~1000-PASS



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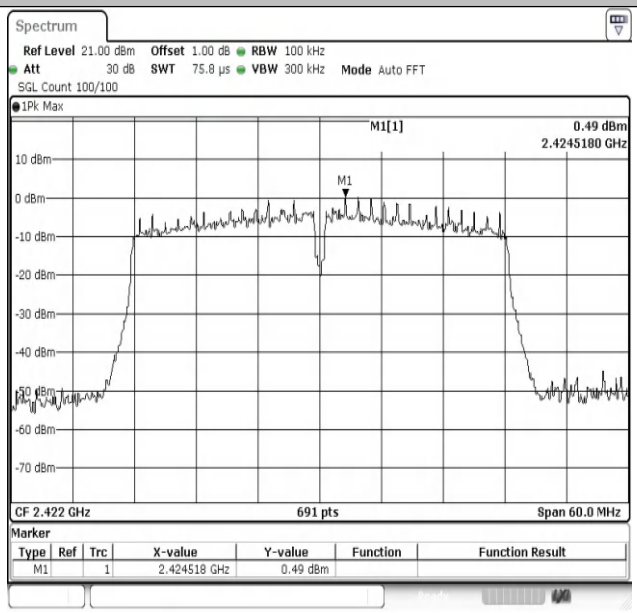

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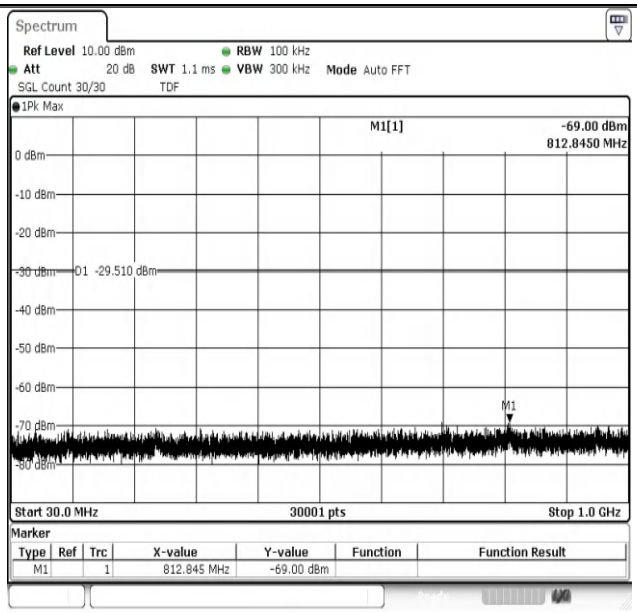

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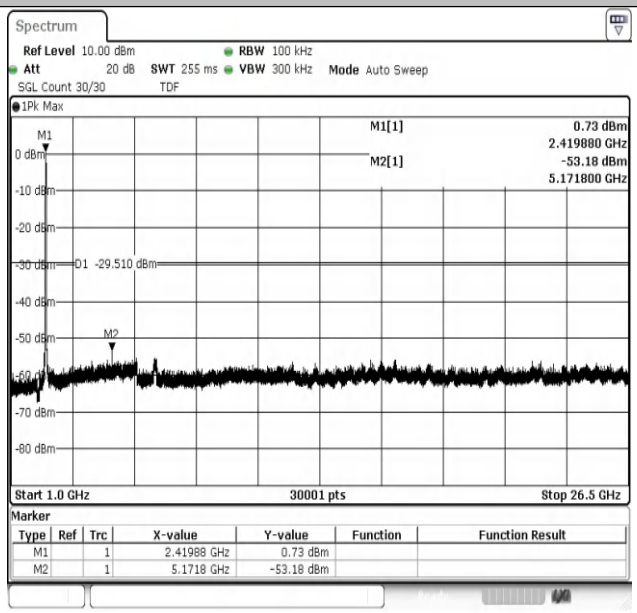

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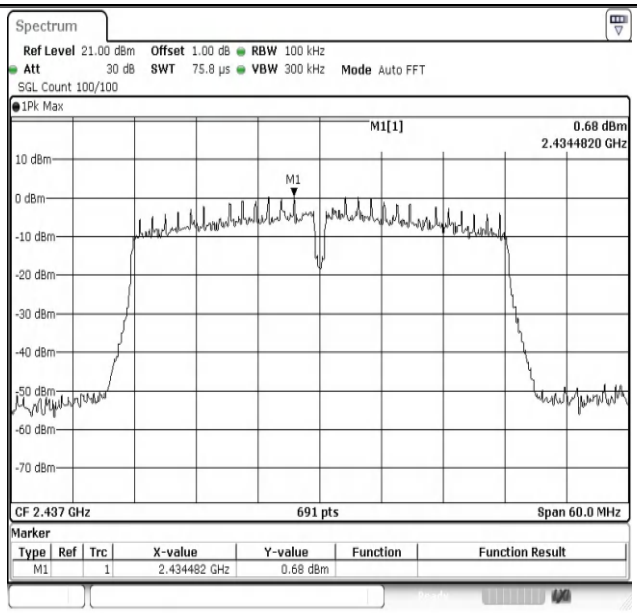

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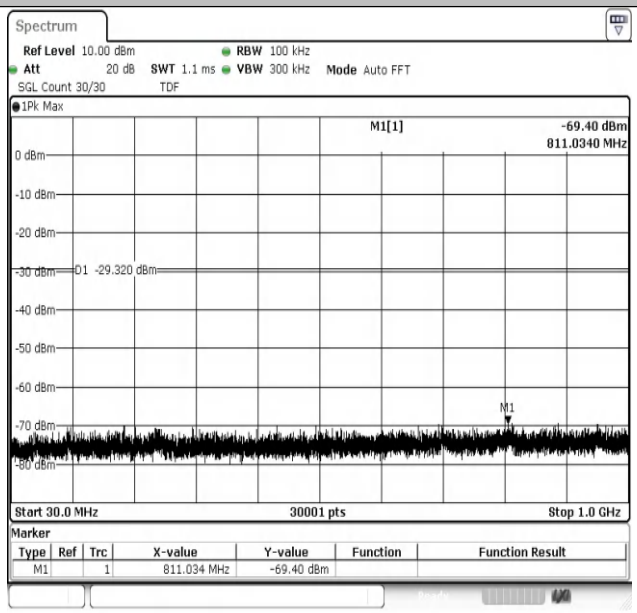

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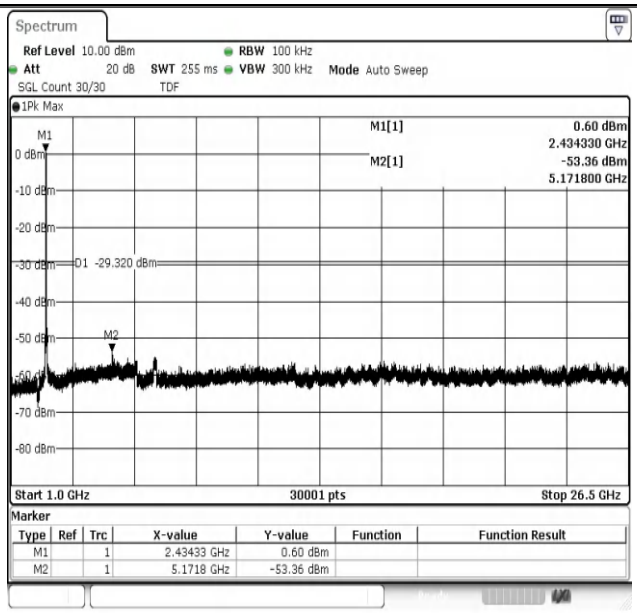
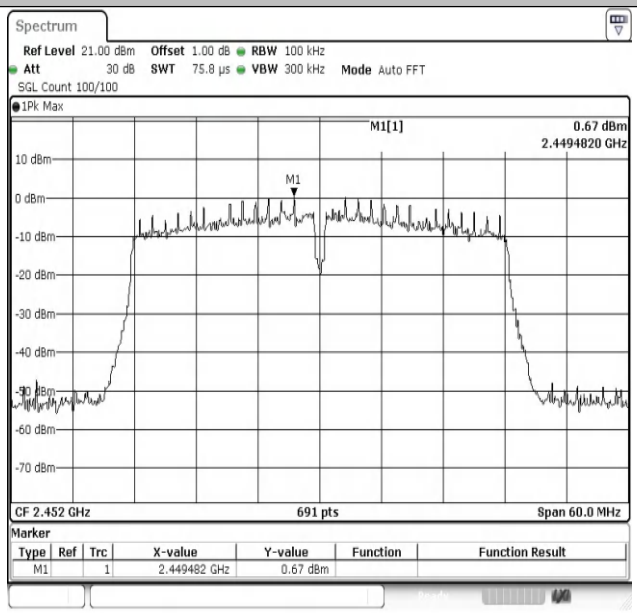


11N40SISO-Ant1-2437-1000~26500-PASS



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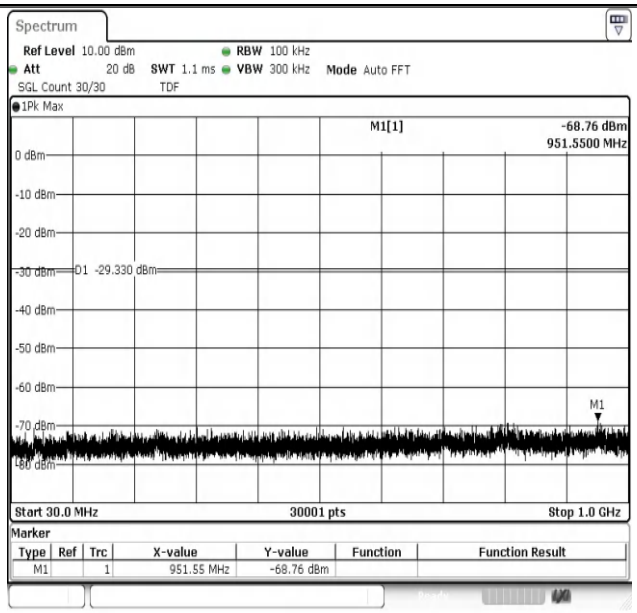

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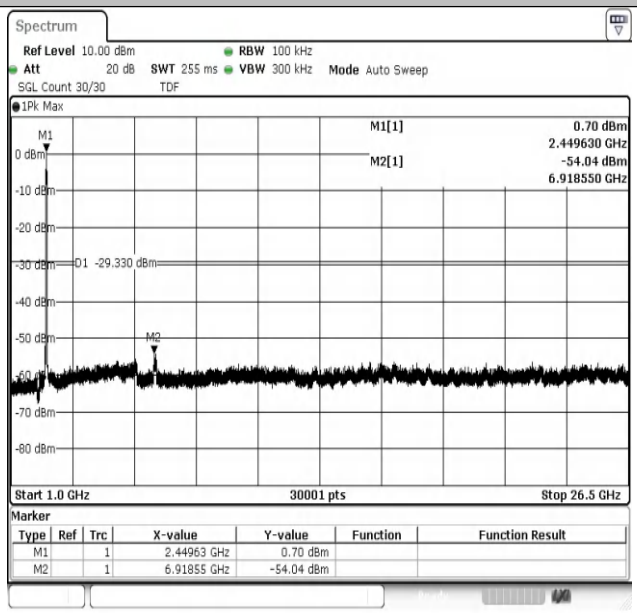
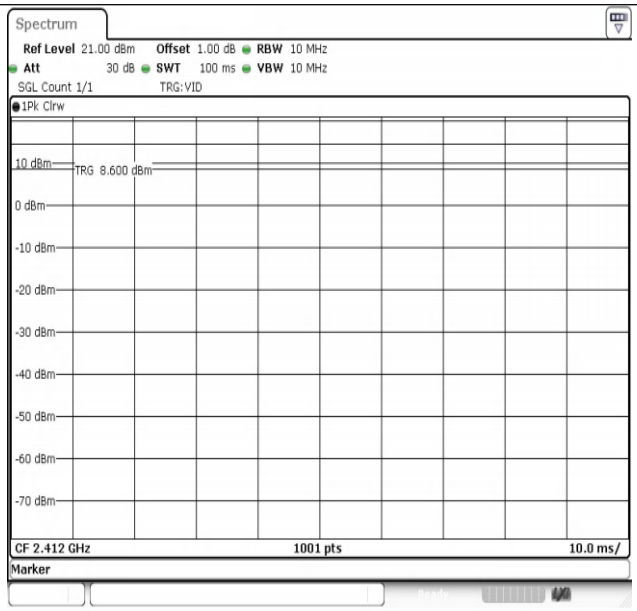


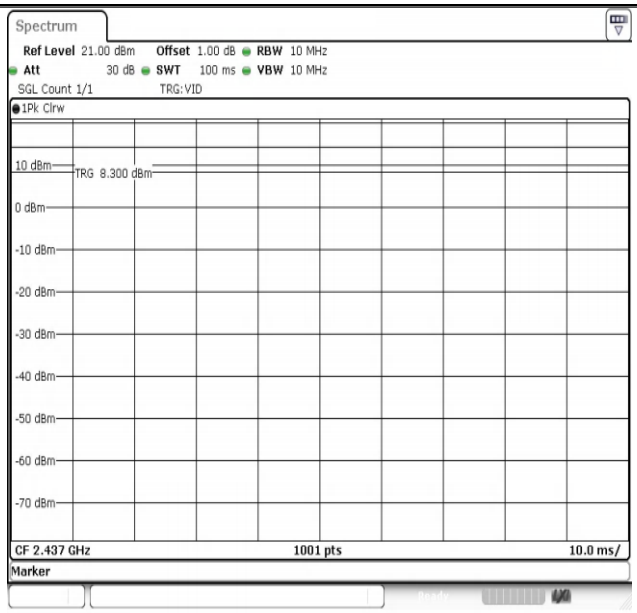
11N40SISO-Ant1-2452-1000~26500-PASS

Appendix G: Duty Cycle

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



NTNV-11B-Ant1-2412



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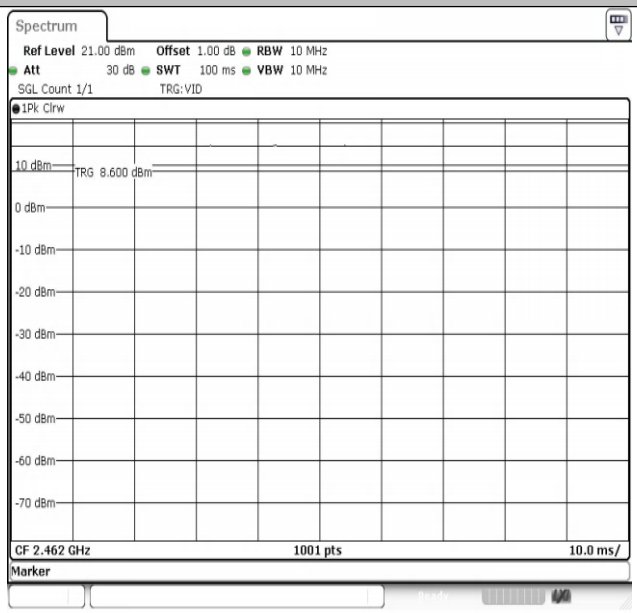

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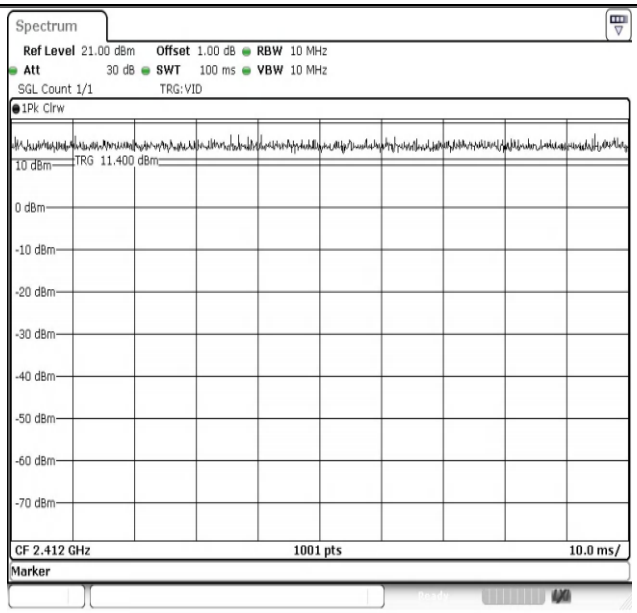

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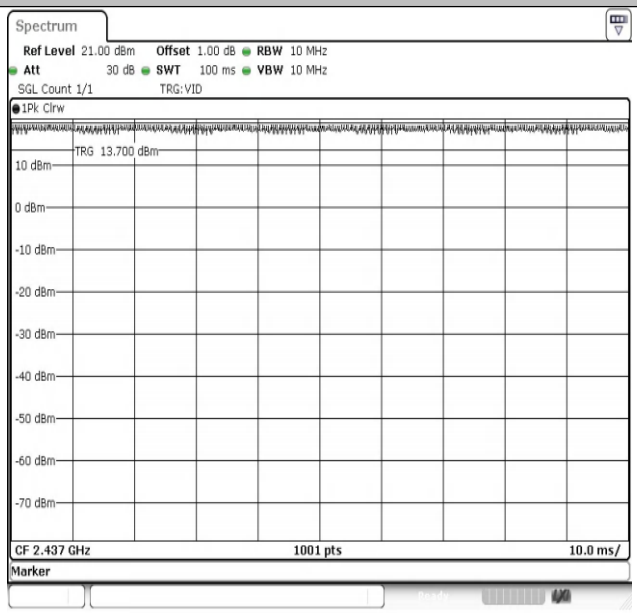

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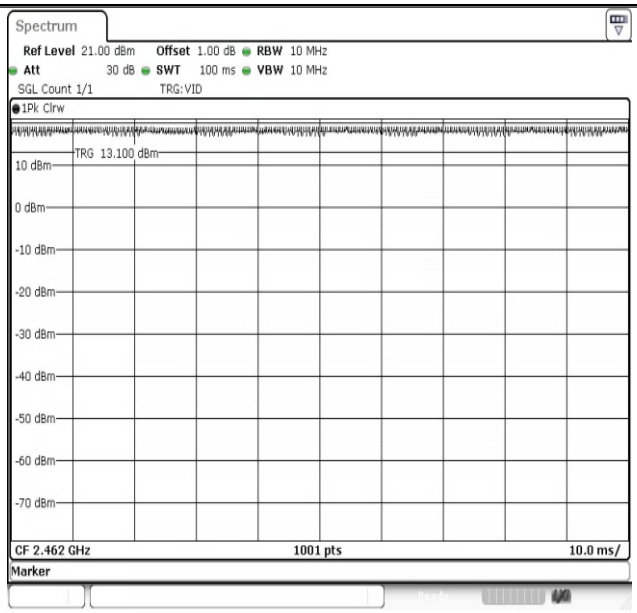

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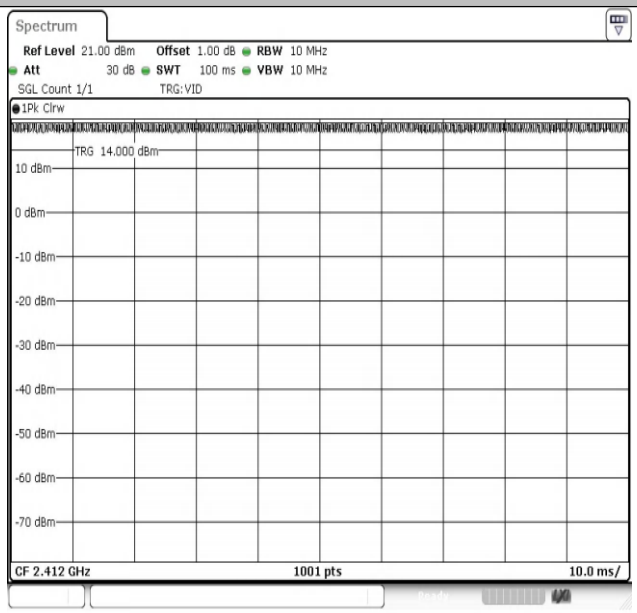

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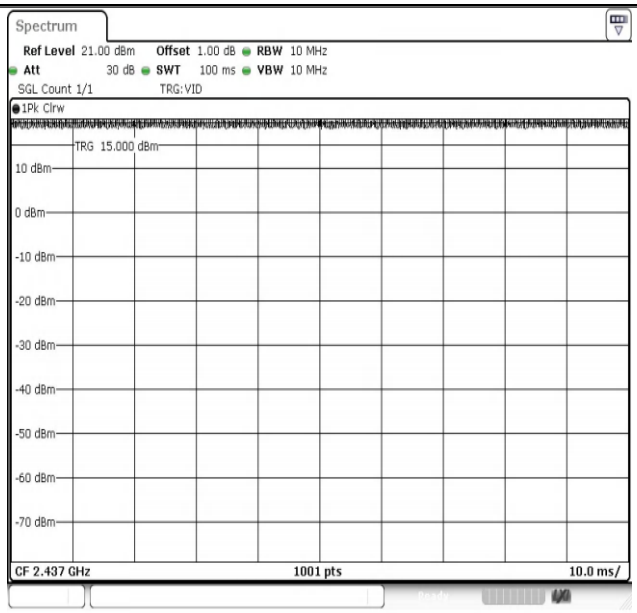

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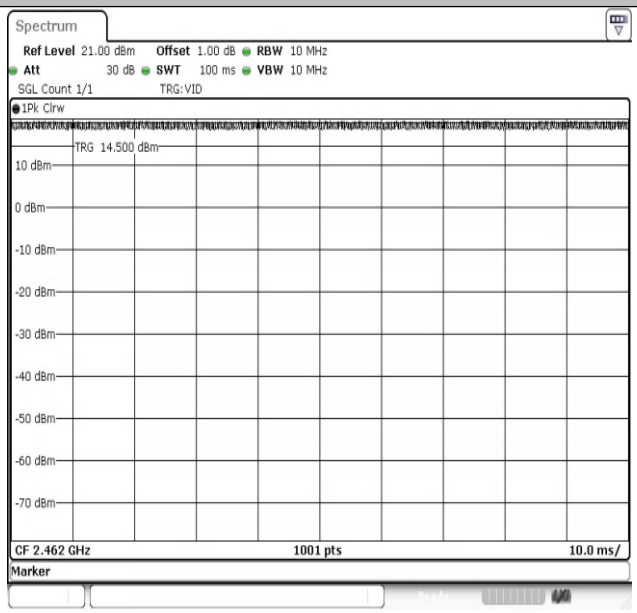
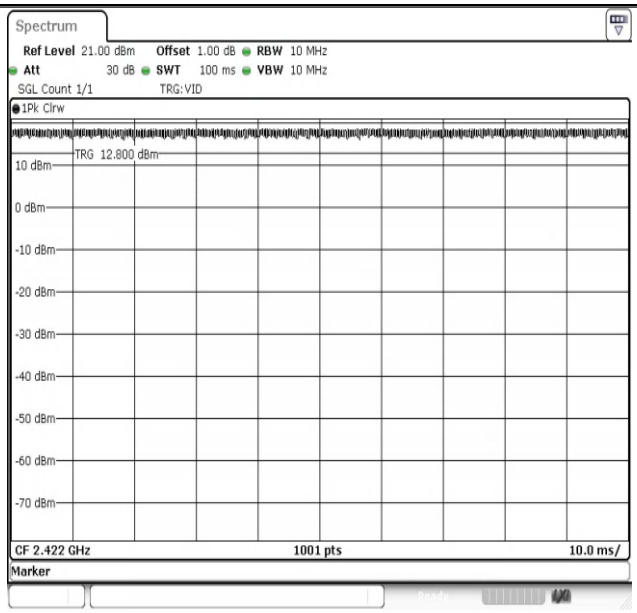
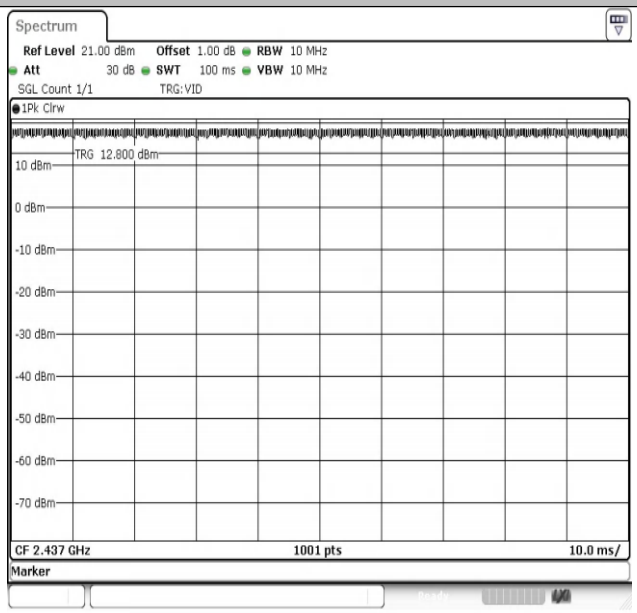


NTNV-11N20SISO-Ant1-2462



NTNV-11N40SISO-Ant1-2422



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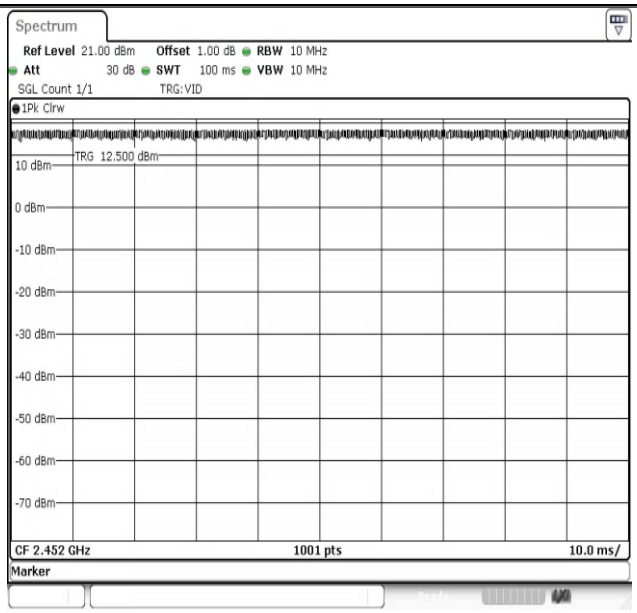

NTNV-11N40SISO-Ant1-2452

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