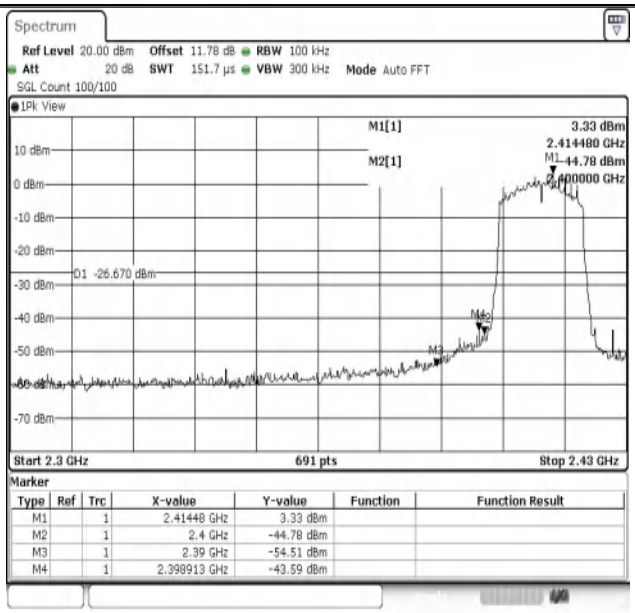
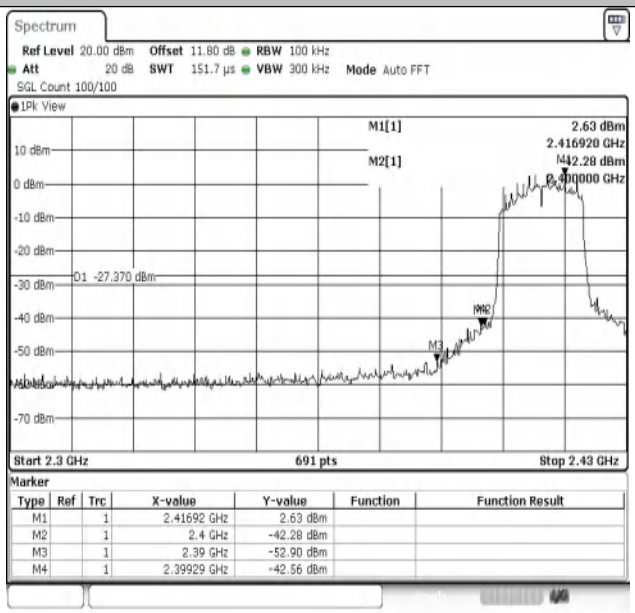
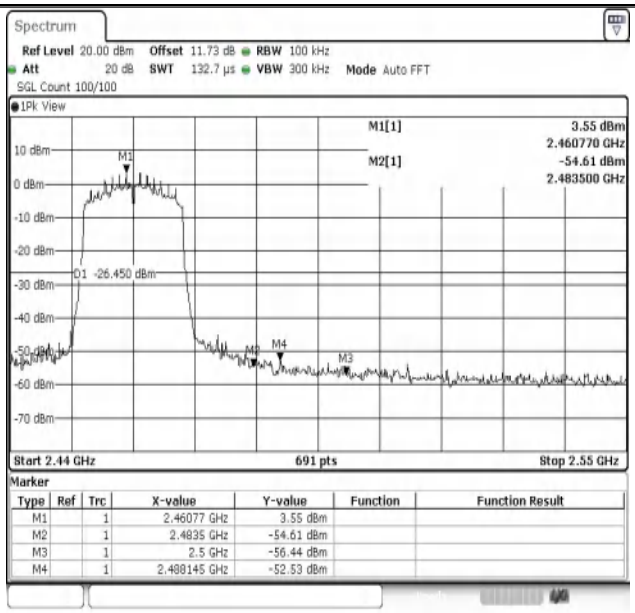


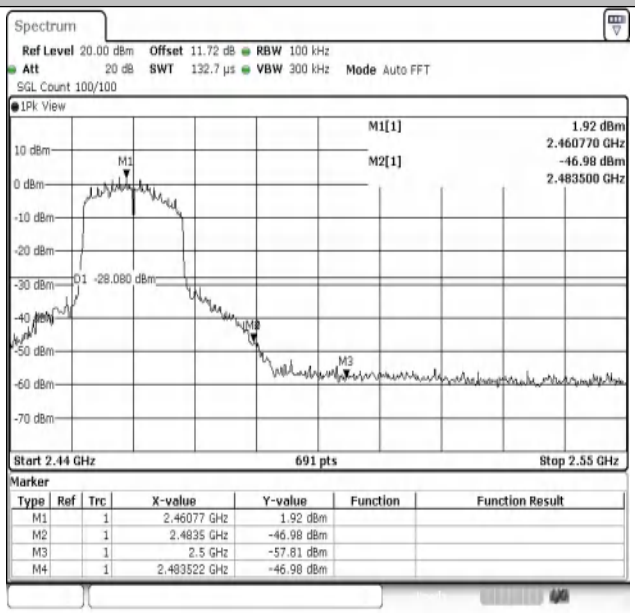
11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



11N20MIMO-Ant1-2462-PASS



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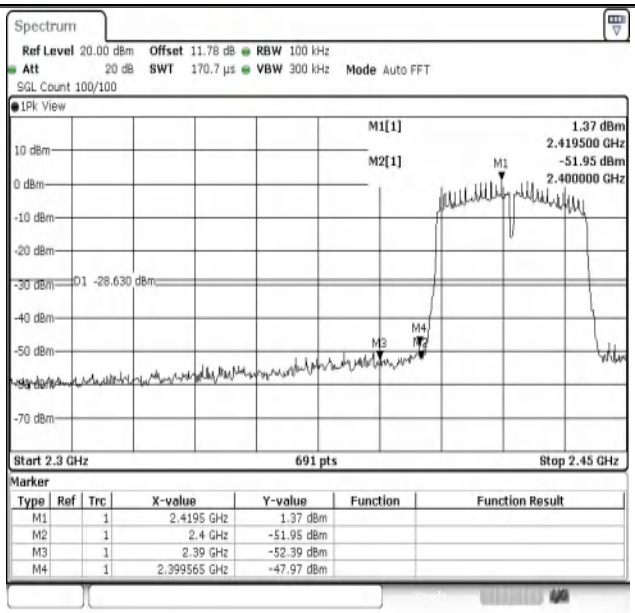
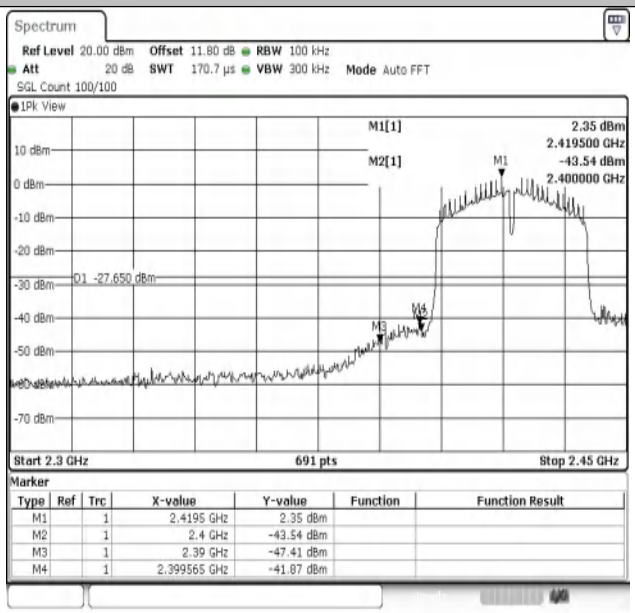
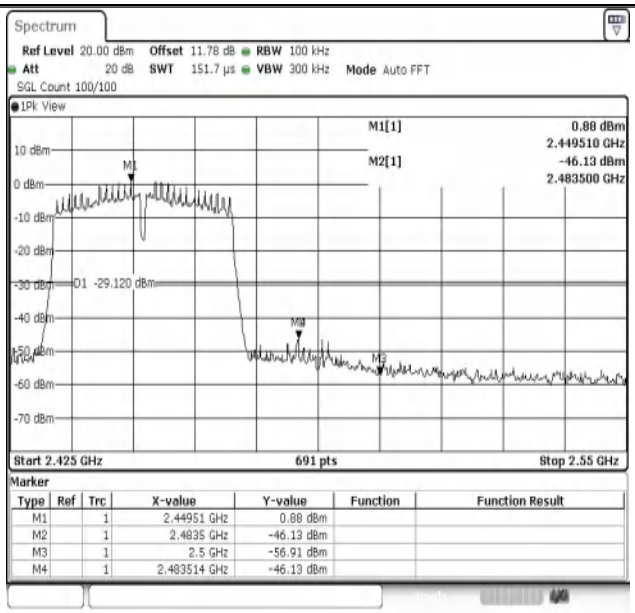


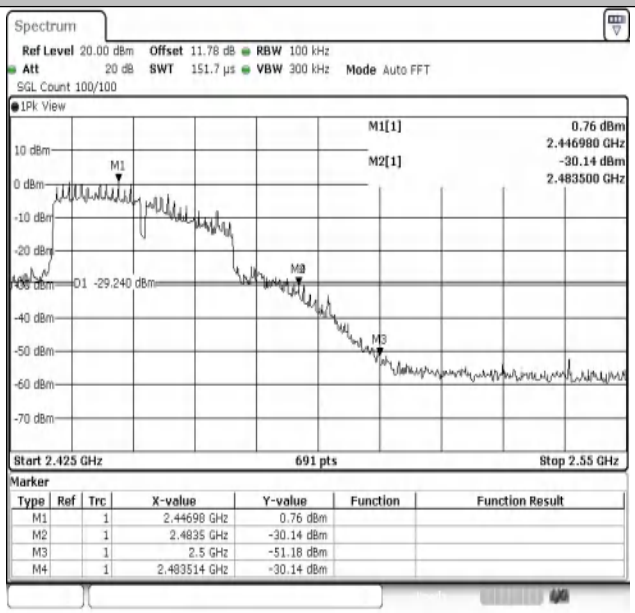
11N40MIMO-Ant1-2422-PASS



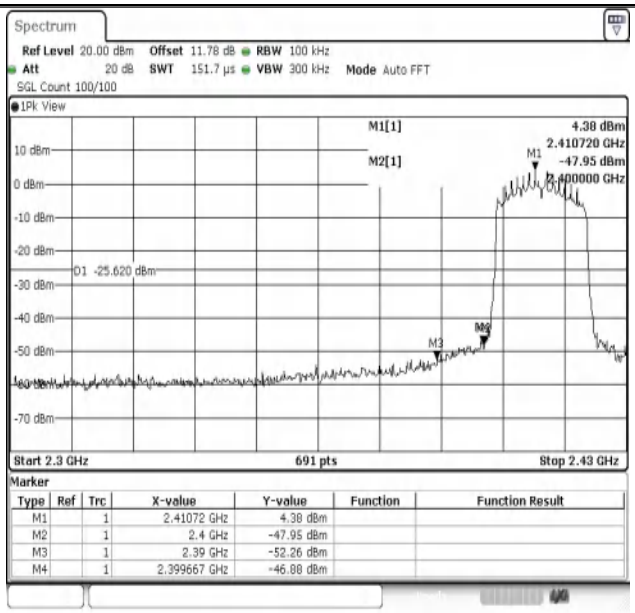
11N40MIMO-Ant2-2422-PASS



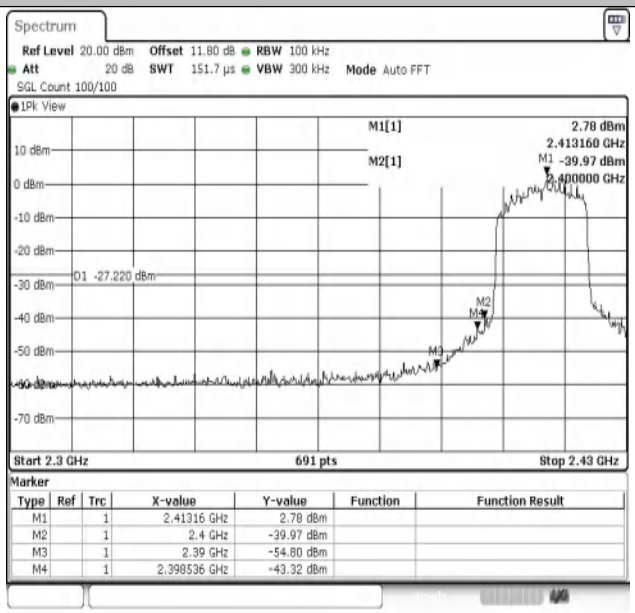
11N40MIMO-Ant1-2452-PASS



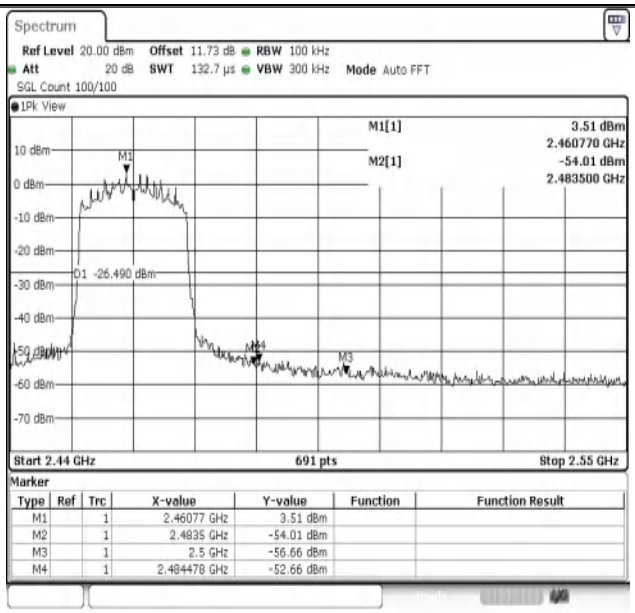
11N40MIMO-Ant2-2452-PASS



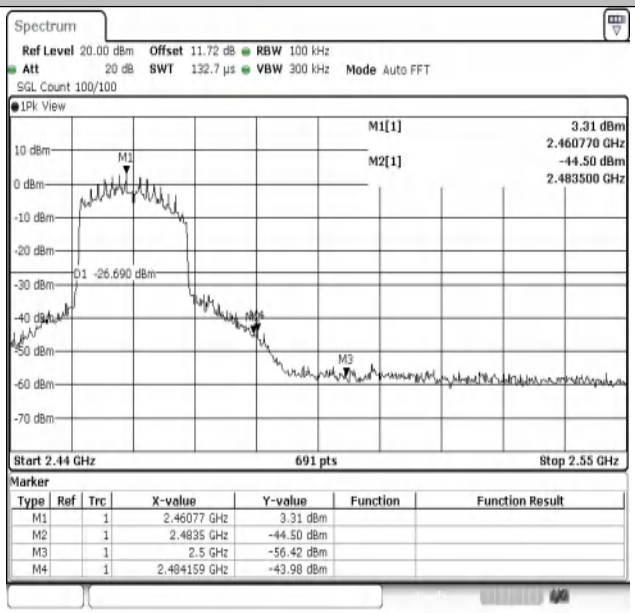
11AX20MIMO-Ant1-2412-PASS



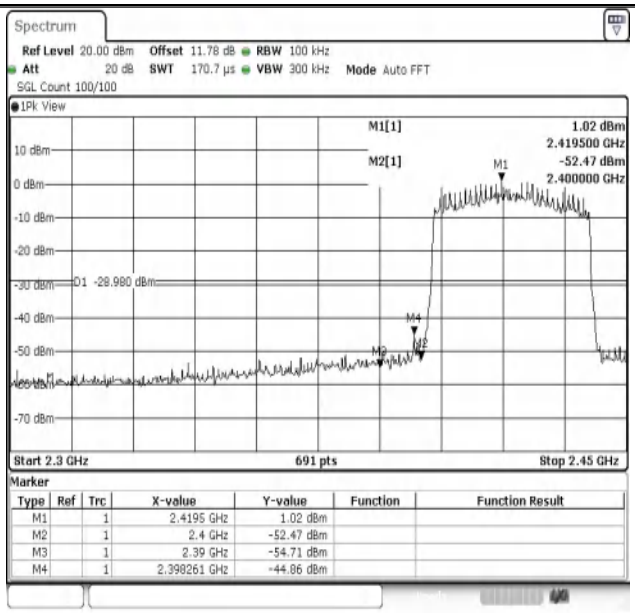
11AX20MIMO-Ant2-2412-PASS



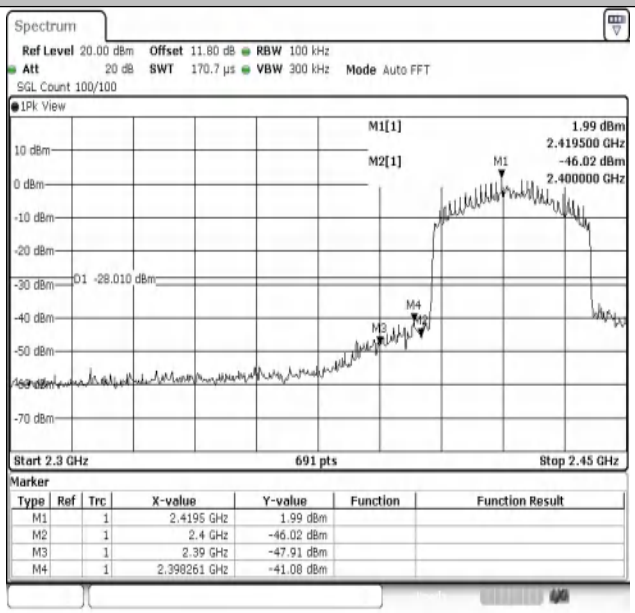
11AX20MIMO-Ant1-2462-PASS



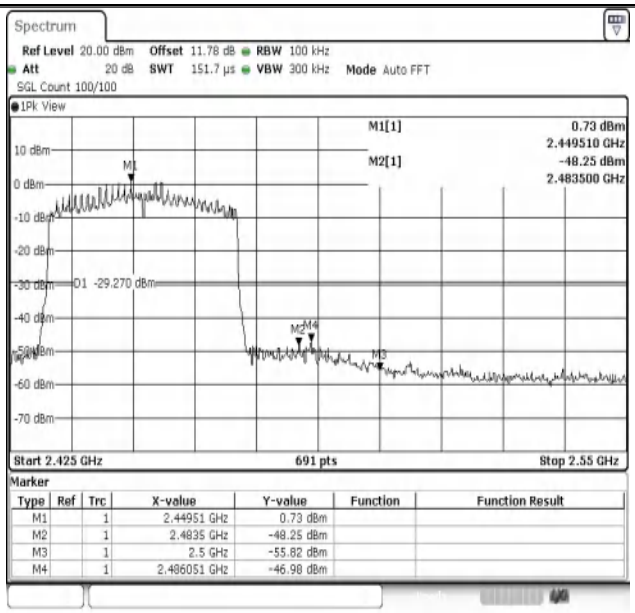
11AX20MIMO-Ant2-2462-PASS



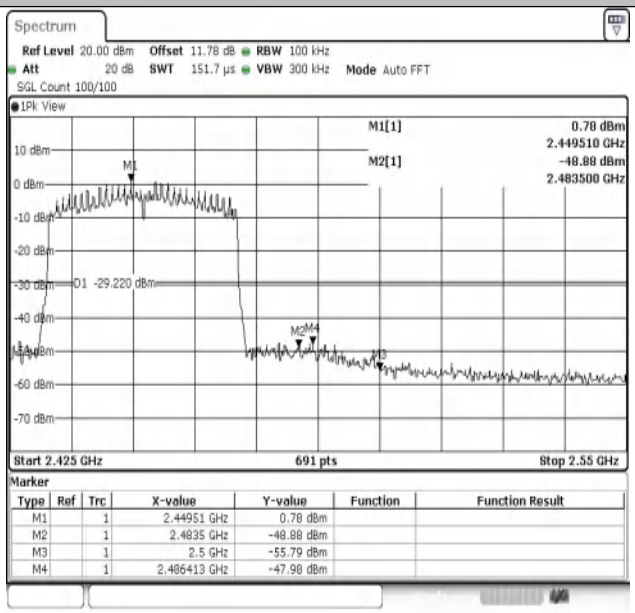
11AX40MIMO-Ant1-2422-PASS



11AX40MIMO-Ant2-2422-PASS



11AX40MIMO-Ant1-2452-PASS



11AX40MIMO-Ant2-2452-PASS

Appendix F: Conducted Spurious Emission

Test Result

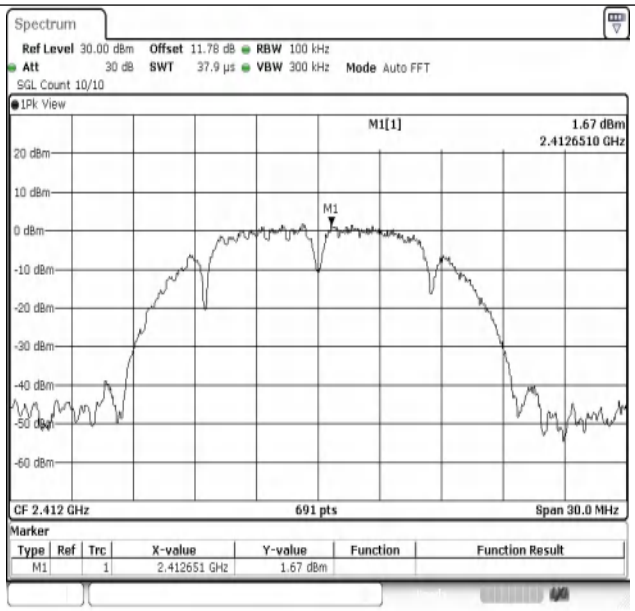
Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	1.67	1.67	---	PASS
11B	Ant2	2412	0~Reference	3.26	3.26	---	PASS
11B	Ant1	2412	30~1000	1.67	-58.76	≤-28.33	PASS
11B	Ant2	2412	30~1000	3.26	-56.88	≤-26.74	PASS
11B	Ant1	2412	1000~26500	1.67	-43.35	≤-28.33	PASS
11B	Ant2	2412	1000~26500	3.26	-43.86	≤-26.74	PASS
11B	Ant1	2437	0~Reference	2.49	2.49	---	PASS
11B	Ant2	2437	0~Reference	1.45	1.45	---	PASS
11B	Ant1	2437	30~1000	2.49	-58.43	≤-27.51	PASS
11B	Ant2	2437	30~1000	1.45	-57.54	≤-28.55	PASS
11B	Ant1	2437	1000~26500	2.49	-43.79	≤-27.51	PASS
11B	Ant2	2437	1000~26500	1.45	-43.73	≤-28.55	PASS
11B	Ant1	2462	0~Reference	2.66	2.66	---	PASS
11B	Ant2	2462	0~Reference	2.11	2.11	---	PASS
11B	Ant1	2462	30~1000	2.66	-57.55	≤-27.34	PASS
11B	Ant2	2462	30~1000	2.11	-57.64	≤-27.89	PASS
11B	Ant1	2462	1000~26500	2.66	-43.65	≤-27.34	PASS
11B	Ant2	2462	1000~26500	2.11	-44.16	≤-27.89	PASS
11G	Ant1	2412	0~Reference	0.61	0.61	---	PASS
11G	Ant2	2412	0~Reference	0.68	0.68	---	PASS
11G	Ant1	2412	30~1000	0.61	-58.08	≤-29.39	PASS
11G	Ant2	2412	30~1000	0.68	-57.78	≤-29.32	PASS
11G	Ant1	2412	1000~26500	0.61	-43.99	≤-29.39	PASS
11G	Ant2	2412	1000~26500	0.68	-43.8	≤-29.32	PASS
11G	Ant1	2437	0~Reference	3.68	3.68	---	PASS
11G	Ant2	2437	0~Reference	3.73	3.73	---	PASS
11G	Ant1	2437	30~1000	3.68	-58.49	≤-26.32	PASS
11G	Ant2	2437	30~1000	3.73	-57.68	≤-26.27	PASS
11G	Ant1	2437	1000~26500	3.68	-43.87	≤-26.32	PASS
11G	Ant2	2437	1000~26500	3.73	-43.99	≤-26.27	PASS
11G	Ant1	2462	0~Reference	1.69	1.69	---	PASS
11G	Ant2	2462	0~Reference	-1.64	-1.64	---	PASS
11G	Ant1	2462	30~1000	1.69	-57.46	≤-28.31	PASS
11G	Ant2	2462	30~1000	-1.64	-58.38	≤-31.64	PASS
11G	Ant1	2462	1000~26500	1.69	-43.59	≤-28.31	PASS
11G	Ant2	2462	1000~26500	-1.64	-44.02	≤-31.64	PASS
11N20MIMO	Ant1	2412	0~Reference	1.94	1.94	---	PASS

11N20MIMO	Ant2	2412	0~Reference	-0.14	-0.14	---	PASS
11N20MIMO	Ant1	2412	30~1000	1.94	-58.6	≤-28.06	PASS
11N20MIMO	Ant2	2412	30~1000	-0.14	-58.11	≤-30.14	PASS
11N20MIMO	Ant1	2412	1000~26500	1.94	-44.44	≤-28.06	PASS
11N20MIMO	Ant2	2412	1000~26500	-0.14	-42.91	≤-30.14	PASS
11N20MIMO	Ant1	2437	0~Reference	0.08	0.08	---	PASS
11N20MIMO	Ant2	2437	0~Reference	-0.33	-0.33	---	PASS
11N20MIMO	Ant1	2437	30~1000	0.08	-57.79	≤-29.92	PASS
11N20MIMO	Ant2	2437	30~1000	-0.33	-57.35	≤-30.33	PASS
11N20MIMO	Ant1	2437	1000~26500	0.08	-44.06	≤-29.92	PASS
11N20MIMO	Ant2	2437	1000~26500	-0.33	-44.22	≤-30.33	PASS
11N20MIMO	Ant1	2462	0~Reference	0.31	0.31	---	PASS
11N20MIMO	Ant2	2462	0~Reference	-0.77	-0.77	---	PASS
11N20MIMO	Ant1	2462	30~1000	0.31	-57.88	≤-29.69	PASS
11N20MIMO	Ant2	2462	30~1000	-0.77	-58.2	≤-30.77	PASS
11N20MIMO	Ant1	2462	1000~26500	0.31	-43.85	≤-29.69	PASS
11N20MIMO	Ant2	2462	1000~26500	-0.77	-43.95	≤-30.77	PASS
11N40MIMO	Ant1	2422	0~Reference	0.74	0.74	---	PASS
11N40MIMO	Ant2	2422	0~Reference	1.82	1.82	---	PASS
11N40MIMO	Ant1	2422	30~1000	0.74	-58.29	≤-29.26	PASS
11N40MIMO	Ant2	2422	30~1000	1.82	-57.91	≤-28.18	PASS
11N40MIMO	Ant1	2422	1000~26500	0.74	-43.98	≤-29.26	PASS
11N40MIMO	Ant2	2422	1000~26500	1.82	-43.57	≤-28.18	PASS
11N40MIMO	Ant1	2437	0~Reference	-2.51	-2.51	---	PASS
11N40MIMO	Ant2	2437	0~Reference	-1.45	-1.45	---	PASS
11N40MIMO	Ant1	2437	30~1000	-2.51	-57.23	≤-32.51	PASS
11N40MIMO	Ant2	2437	30~1000	-1.45	-58.22	≤-31.45	PASS
11N40MIMO	Ant1	2437	1000~26500	-2.51	-44.45	≤-32.51	PASS
11N40MIMO	Ant2	2437	1000~26500	-1.45	-43.79	≤-31.45	PASS
11N40MIMO	Ant1	2452	0~Reference	-1.66	-1.66	---	PASS
11N40MIMO	Ant2	2452	0~Reference	-0.93	-0.93	---	PASS
11N40MIMO	Ant1	2452	30~1000	-1.66	-57.97	≤-31.66	PASS
11N40MIMO	Ant2	2452	30~1000	-0.93	-57.75	≤-30.93	PASS
11N40MIMO	Ant1	2452	1000~26500	-1.66	-44.15	≤-31.66	PASS
11AX20MIMO	Ant1	2412	0~Reference	0.14	0.14	---	PASS
11AX20MIMO	Ant2	2412	0~Reference	-0.58	-0.58	---	PASS
11AX20MIMO	Ant1	2412	30~1000	0.14	-57.74	≤-29.86	PASS
11AX20MIMO	Ant2	2412	30~1000	-0.58	-57.79	≤-30.58	PASS
11AX20MIMO	Ant1	2412	1000~26500	0.14	-42.92	≤-29.86	PASS
11AX20MIMO	Ant2	2412	1000~26500	-0.58	-43.99	≤-30.58	PASS
11AX20MIMO	Ant1	2437	0~Reference	0.13	0.13	---	PASS
11AX20MIMO	Ant2	2437	0~Reference	-0.16	-0.16	---	PASS

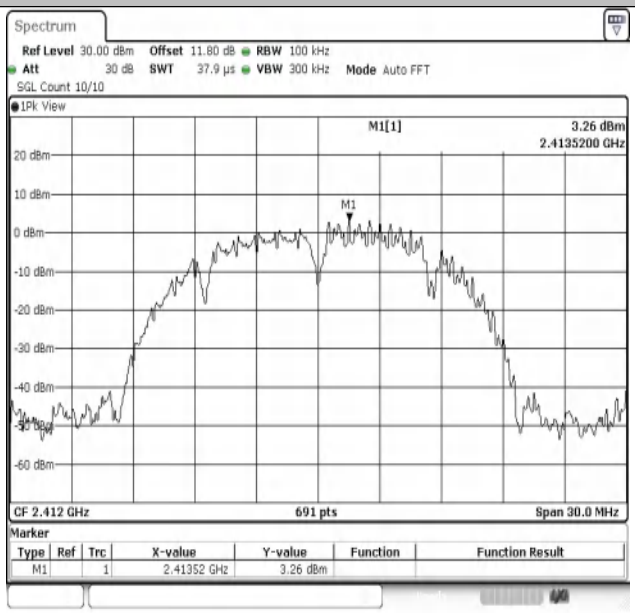
11AX20MIMO	Ant1	2437	30~1000	0.13	-57.96	≤-29.87	PASS
11AX20MIMO	Ant2	2437	30~1000	-0.16	-57.93	≤-30.16	PASS
11AX20MIMO	Ant1	2437	1000~26500	0.13	-44.03	≤-29.87	PASS
11AX20MIMO	Ant2	2437	1000~26500	-0.16	-43.97	≤-30.16	PASS
11AX20MIMO	Ant1	2462	0~Reference	3.65	3.65	---	PASS
11AX20MIMO	Ant2	2462	0~Reference	-0.75	-0.75	---	PASS
11AX20MIMO	Ant1	2462	30~1000	3.65	-57.62	≤-26.35	PASS
11AX20MIMO	Ant2	2462	30~1000	-0.75	-58.26	≤-30.75	PASS
11AX20MIMO	Ant1	2462	1000~26500	3.65	-44.16	≤-26.35	PASS
11AX20MIMO	Ant2	2462	1000~26500	-0.75	-44.01	≤-30.75	PASS
11AX40MIMO	Ant1	2422	0~Reference	0.57	0.57	---	PASS
11AX40MIMO	Ant2	2422	0~Reference	-0.69	-0.69	---	PASS
11AX40MIMO	Ant1	2422	30~1000	0.57	-58.27	≤-29.43	PASS
11AX40MIMO	Ant2	2422	30~1000	-0.69	-57.64	≤-30.69	PASS
11AX40MIMO	Ant1	2422	1000~26500	0.57	-43.35	≤-29.43	PASS
11AX40MIMO	Ant2	2422	1000~26500	-0.69	-43.22	≤-30.69	PASS
11AX40MIMO	Ant1	2437	0~Reference	0.74	0.74	---	PASS
11AX40MIMO	Ant2	2437	0~Reference	-1.14	-1.14	---	PASS
11AX40MIMO	Ant1	2437	30~1000	0.74	-58.39	≤-29.26	PASS
11AX40MIMO	Ant2	2437	30~1000	-1.14	-57.69	≤-31.14	PASS
11AX40MIMO	Ant1	2437	1000~26500	0.74	-44.25	≤-29.26	PASS
11AX40MIMO	Ant2	2437	1000~26500	-1.14	-43.86	≤-31.14	PASS
11AX40MIMO	Ant1	2452	0~Reference	-1.37	-1.37	---	PASS
11AX40MIMO	Ant2	2452	0~Reference	-2.50	-2.50	---	PASS
11AX40MIMO	Ant1	2452	30~1000	-1.37	-57.63	≤-31.37	PASS
11AX40MIMO	Ant2	2452	30~1000	-2.50	-57.67	≤-32.5	PASS
11AX40MIMO	Ant1	2452	1000~26500	-1.37	-43.83	≤-31.37	PASS
11AX40MIMO	Ant2	2452	1000~26500	-2.50	-44.28	≤-32.5	PASS

The results of single antenna testing in MIMO mode meet the margin of more than 3db

Test Graphs



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



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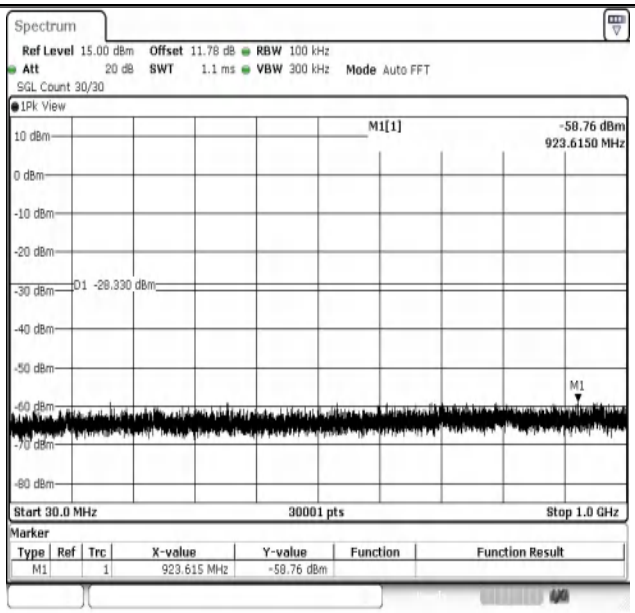
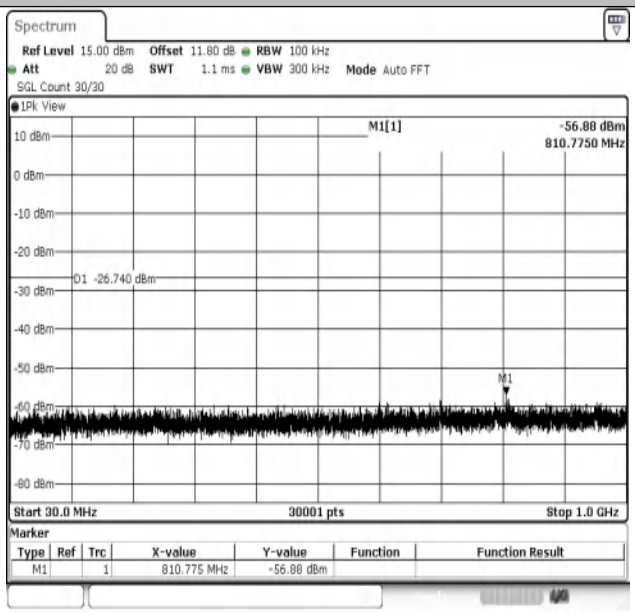
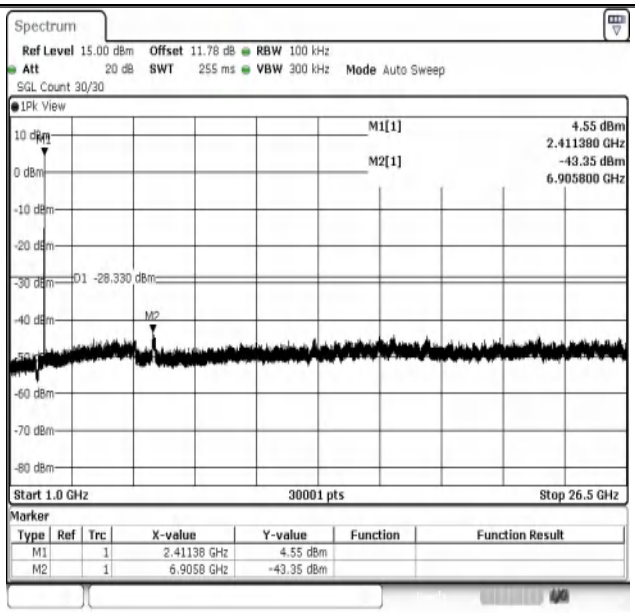


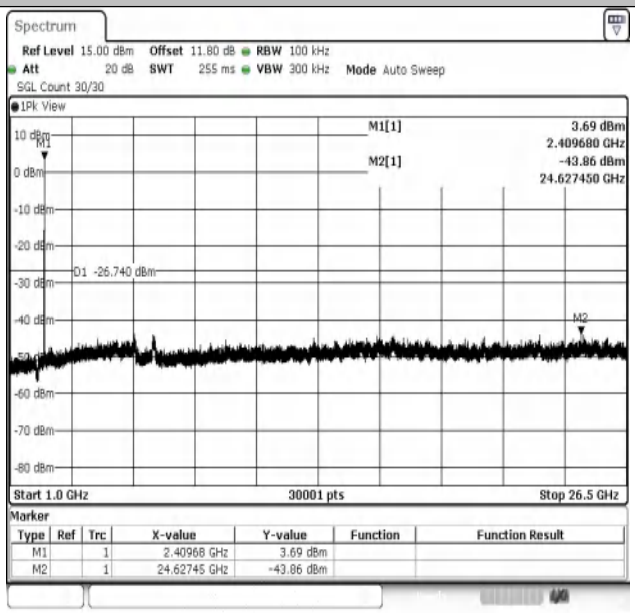
11B-Ant1-2412-30~1000-PASS



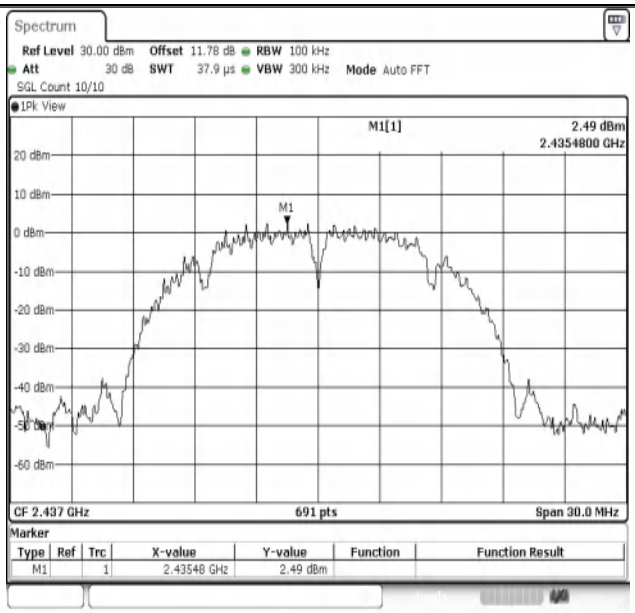
11B-Ant2-2412-30~1000-PASS



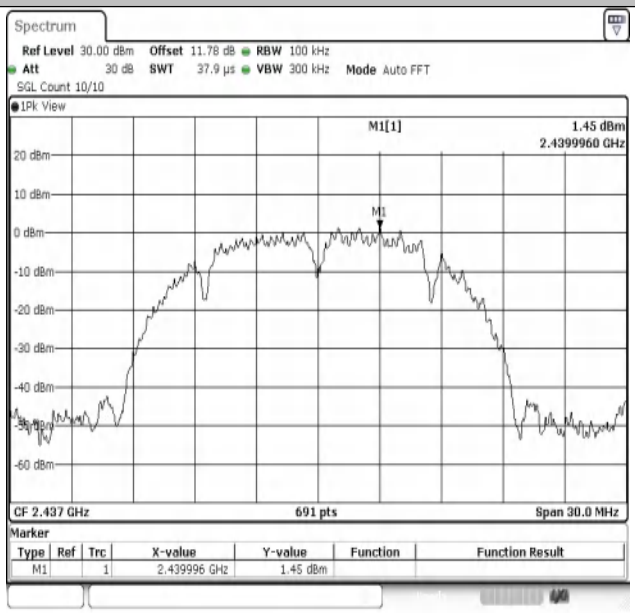
11B-Ant1-2412-1000~26500-PASS



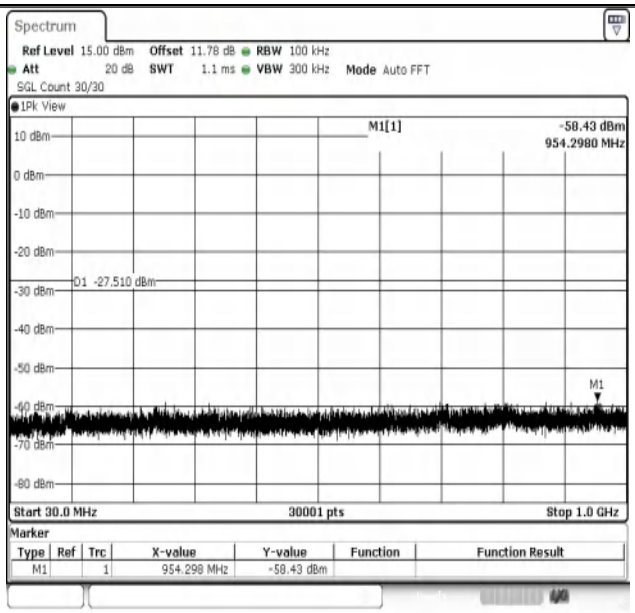
11B-Ant2-2412-1000~26500-PASS



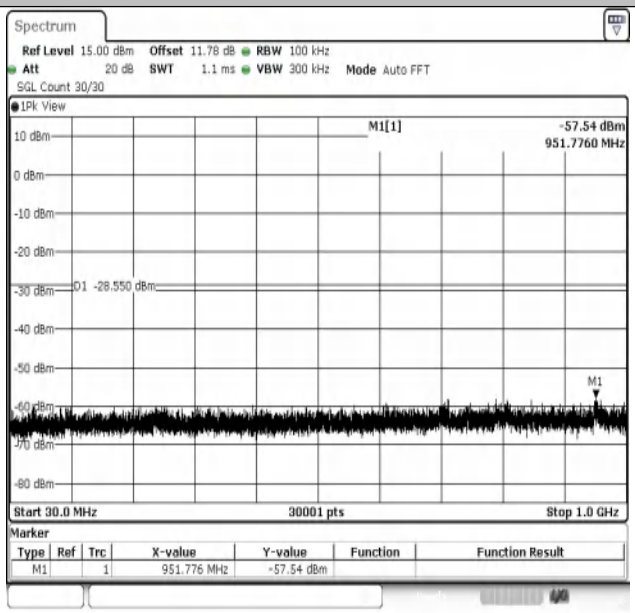
11B-Ant1-2437-0~Reference-PASS



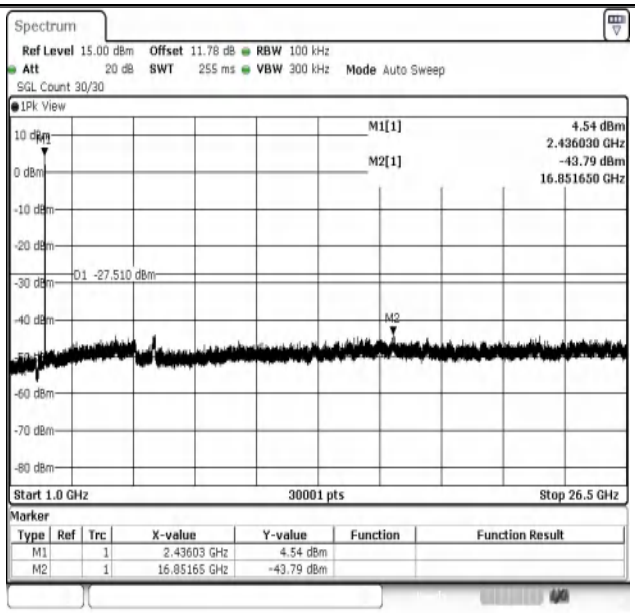
11B-Ant2-2437-0~Reference-PASS



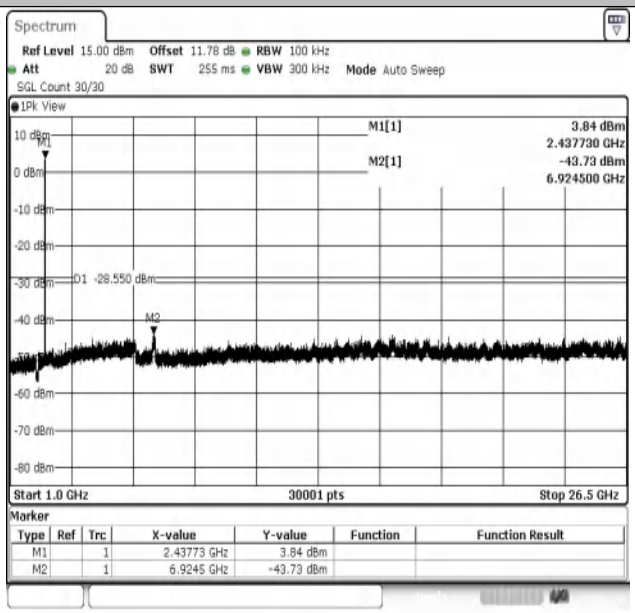
11B-Ant1-2437-30~1000-PASS



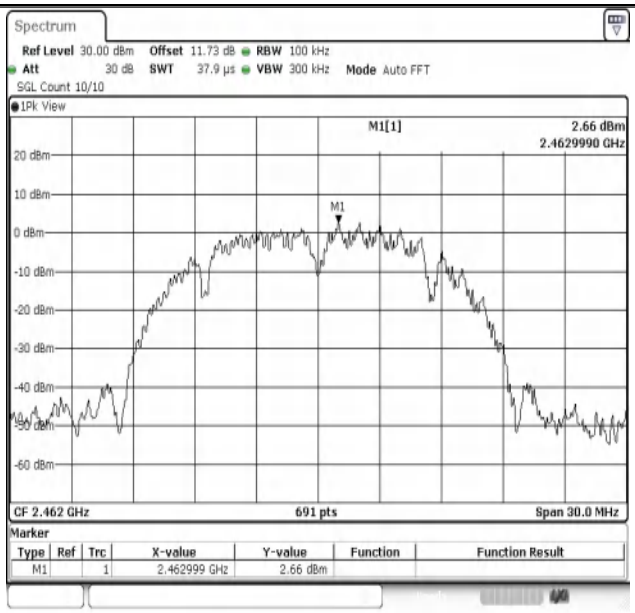
11B-Ant2-2437-30~1000-PASS



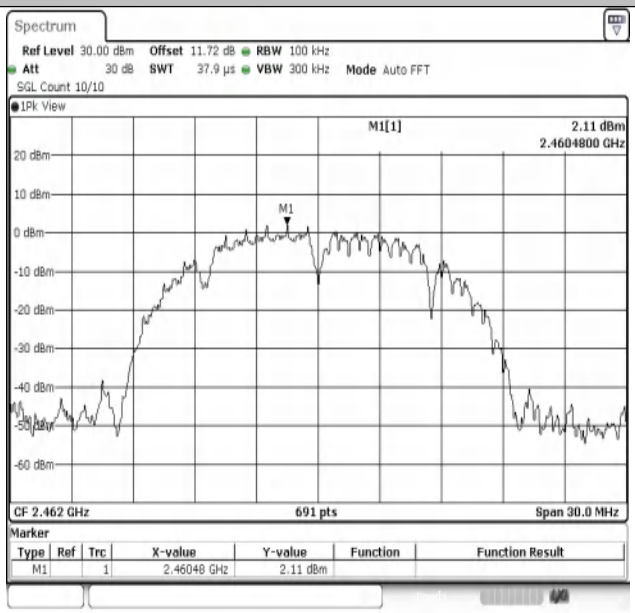
11B-Ant1-2437-1000~26500-PASS



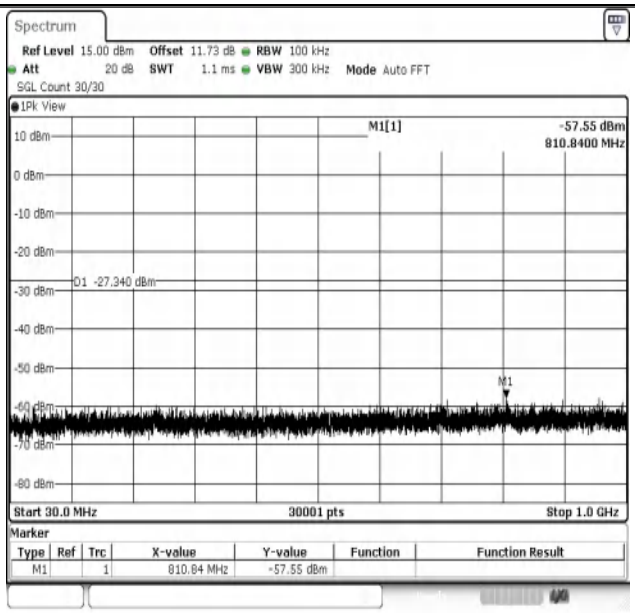
11B-Ant2-2437-1000~26500-PASS



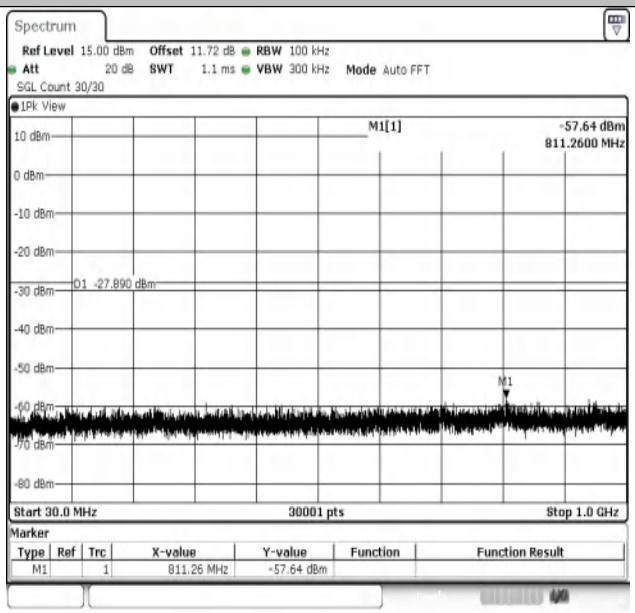
11B-Ant1-2462-0~Reference-PASS



11B-Ant2-2462-0~Reference-PASS



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



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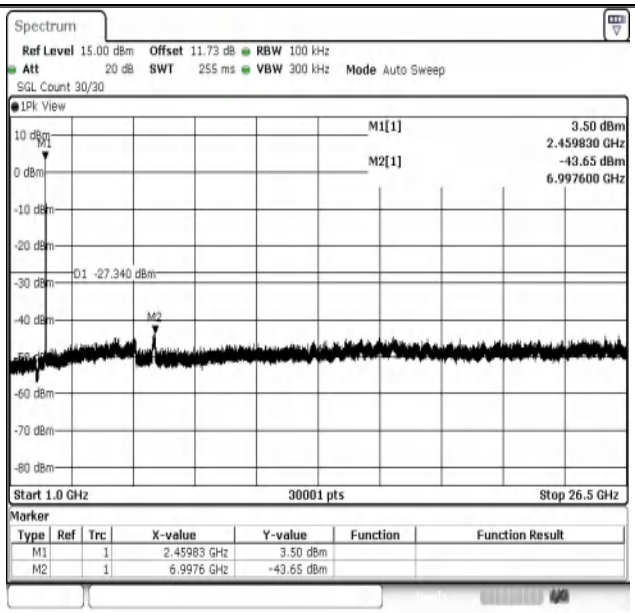
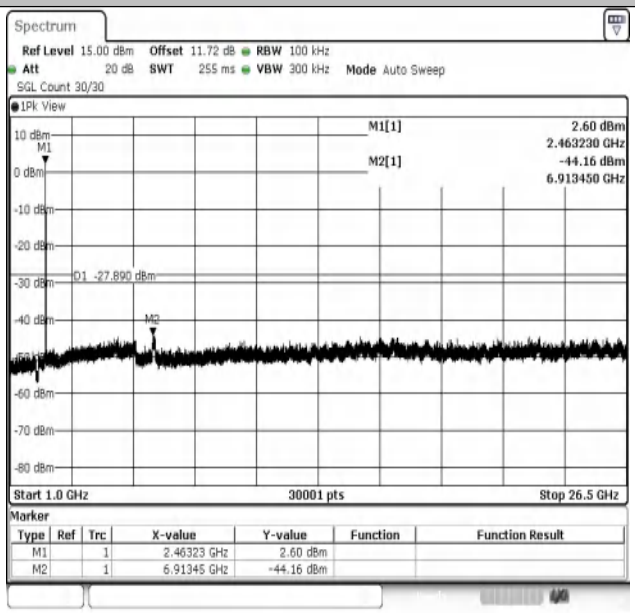


11B-Ant1-2462-1000~26500-PASS



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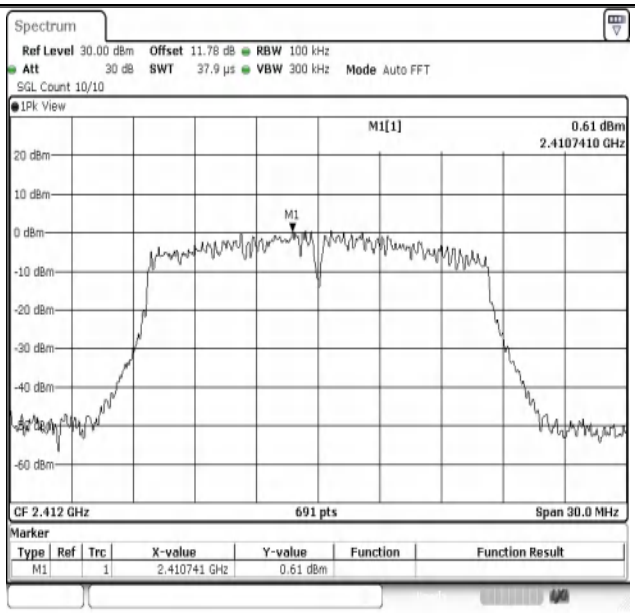
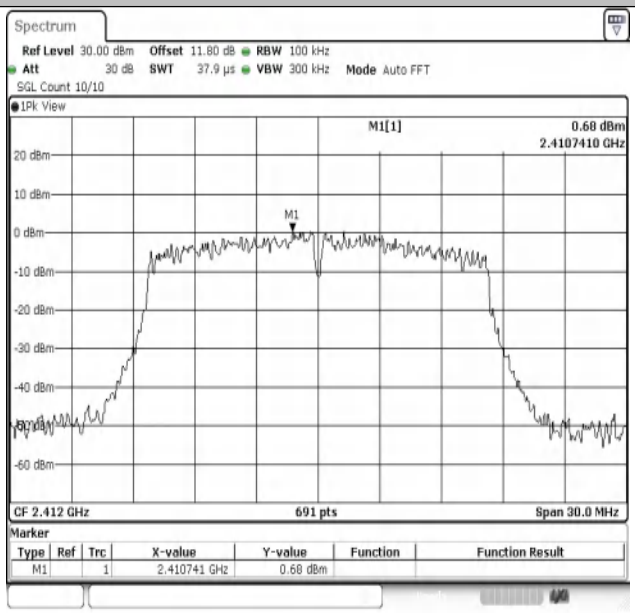


11G-Ant1-2412-0~Reference-PASS



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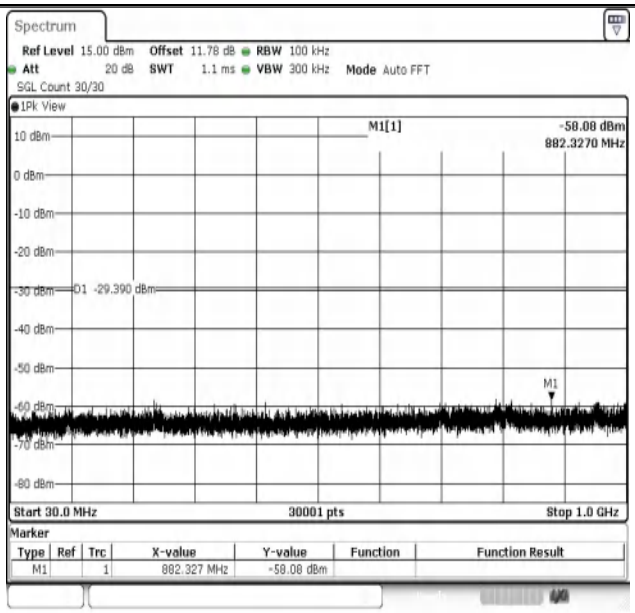
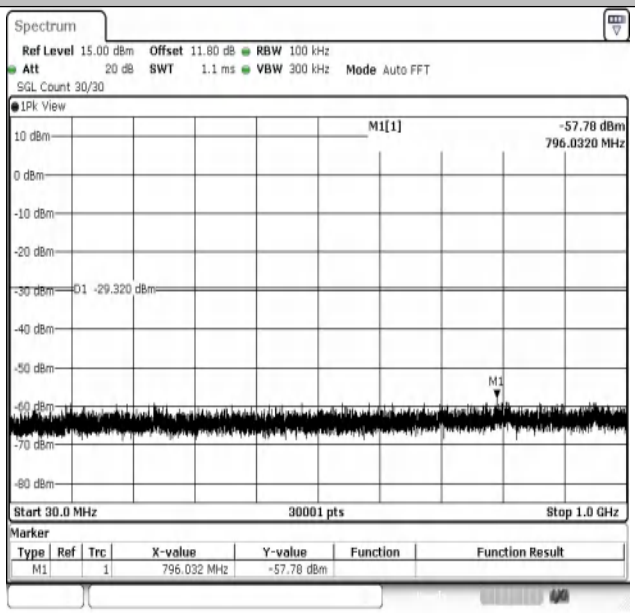


11G-Ant1-2412-30~1000-PASS



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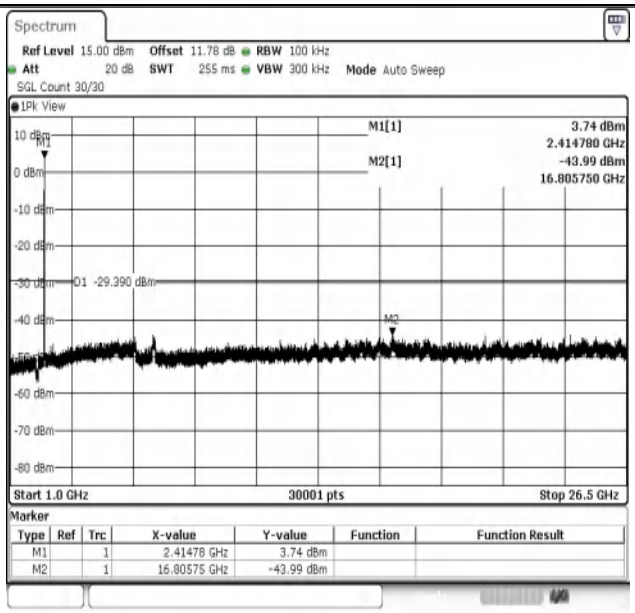

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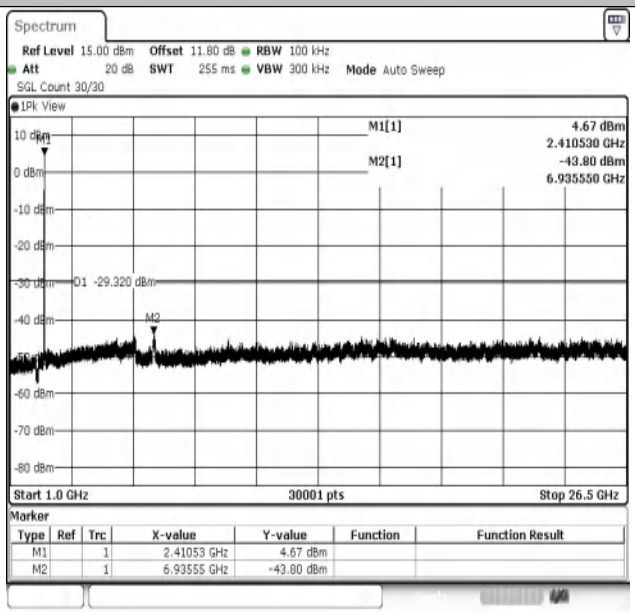
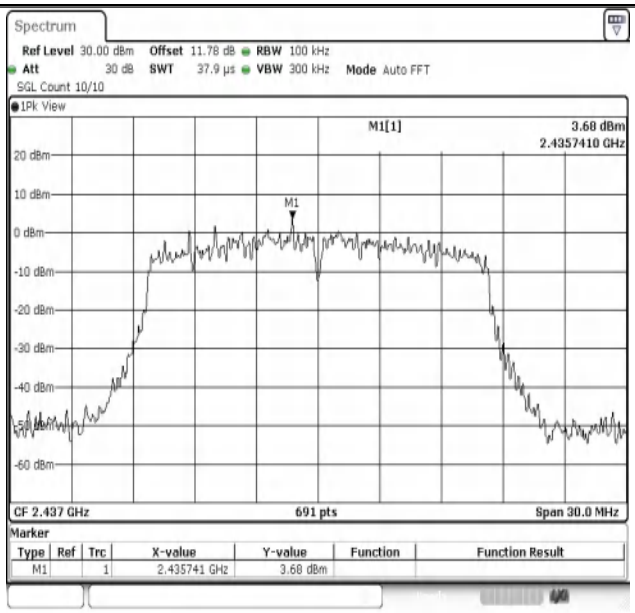
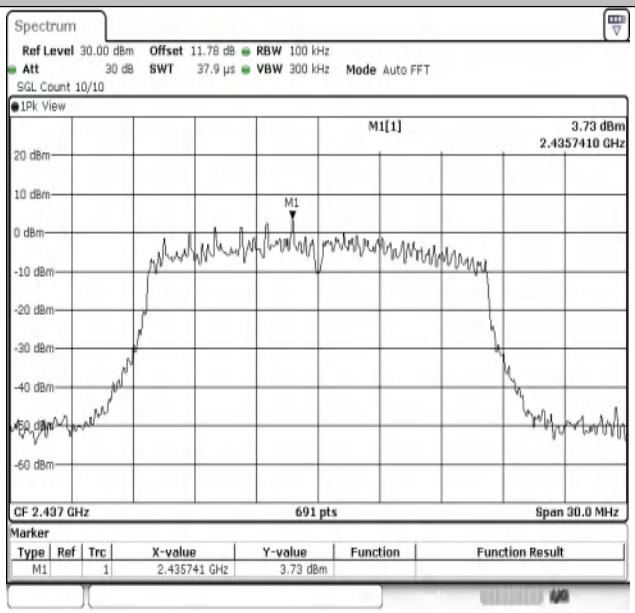


11G-Ant2-2412-1000~26500-PASS



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



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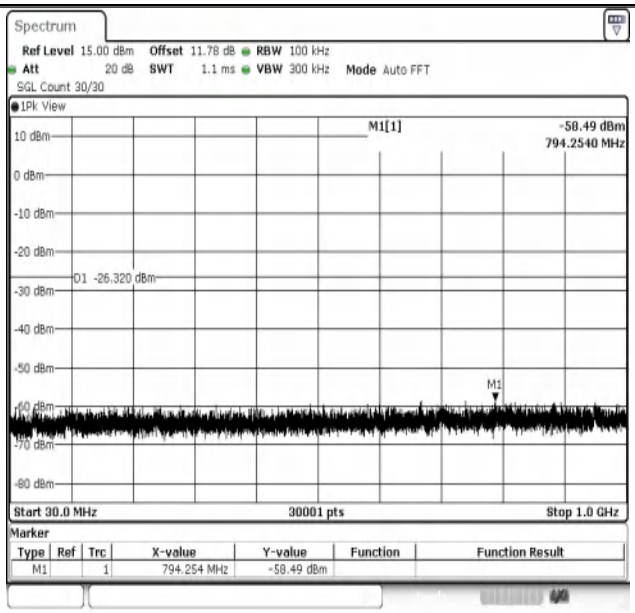
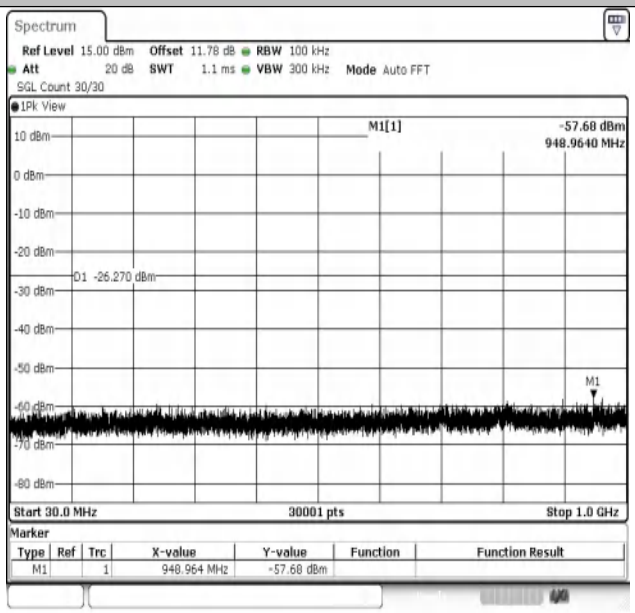


11G-Ant1-2437-30~1000-PASS



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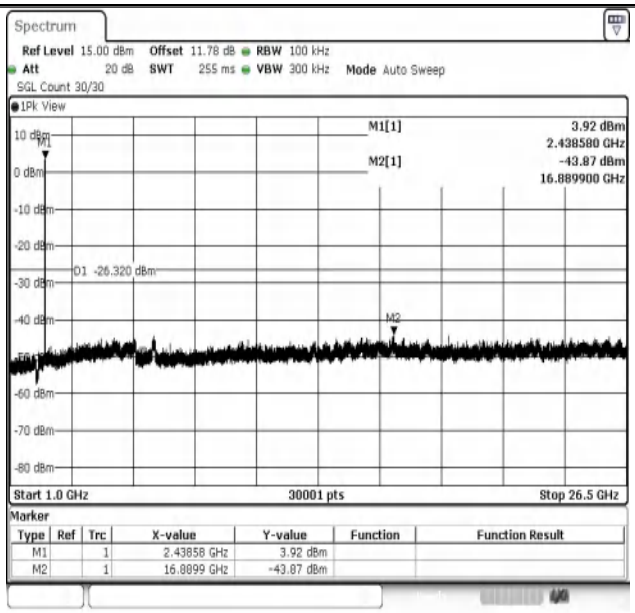

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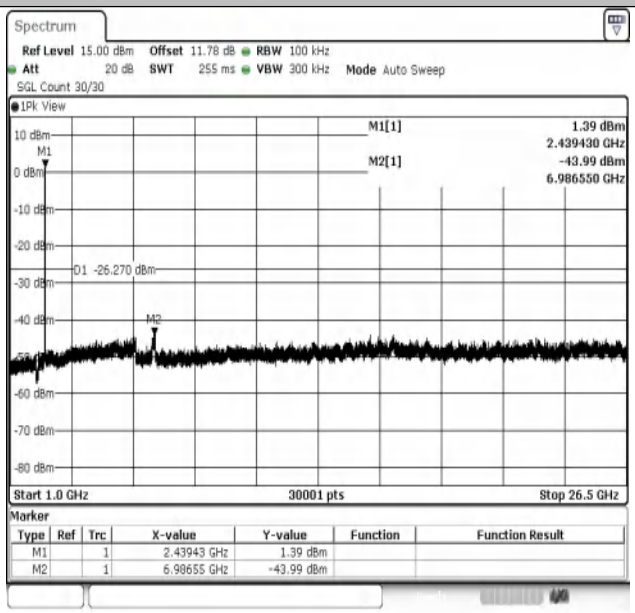

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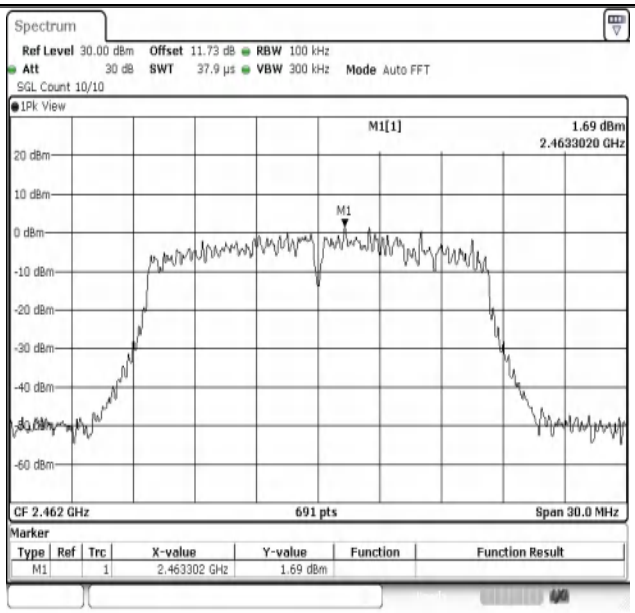
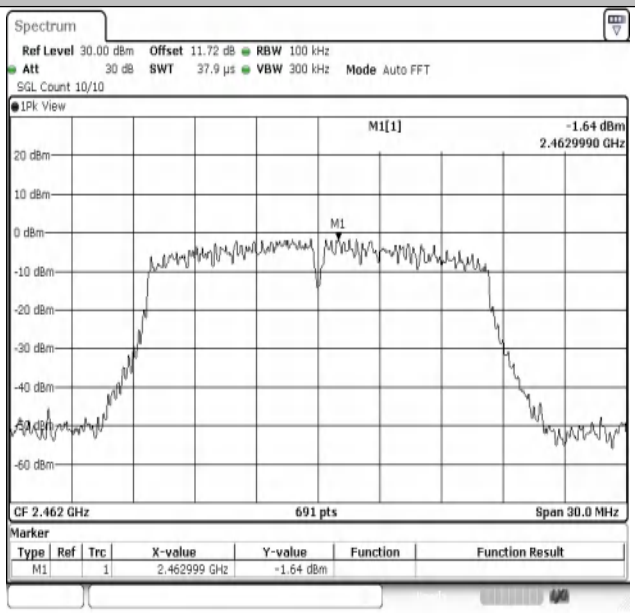


11G-Ant1-2462-0~Reference-PASS



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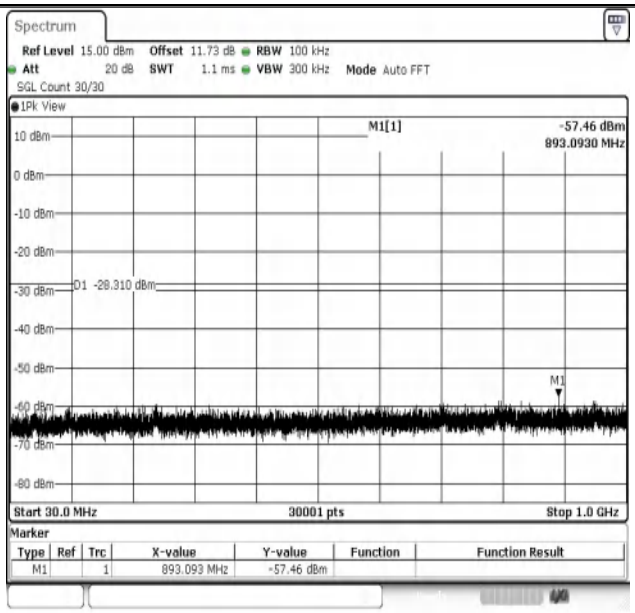

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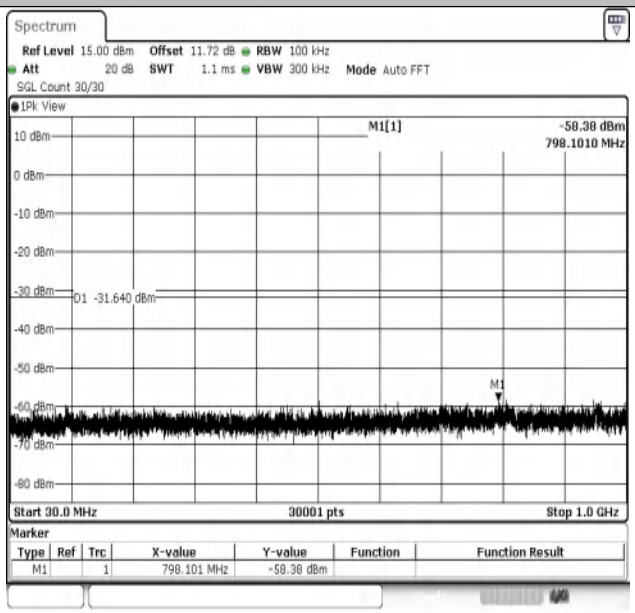

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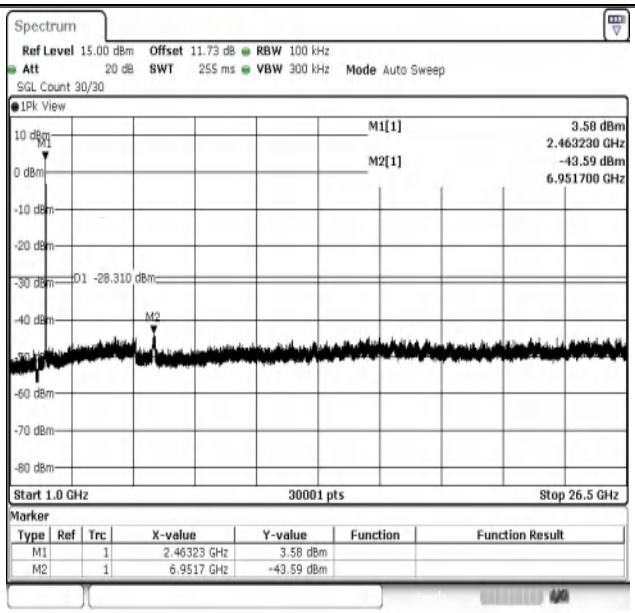

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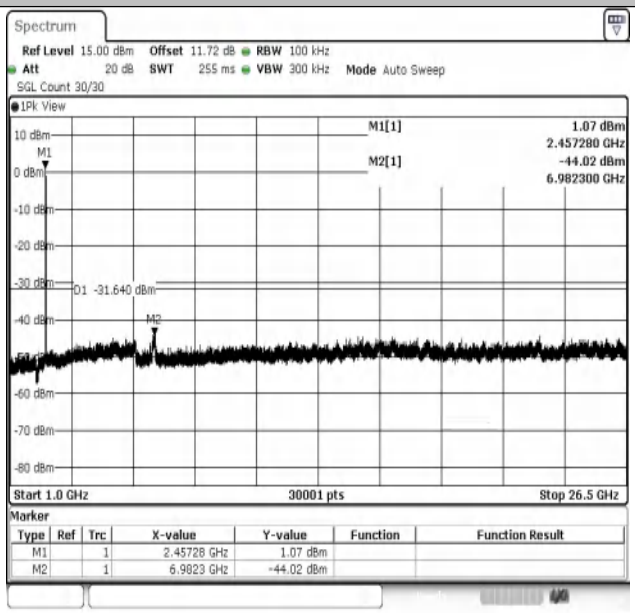

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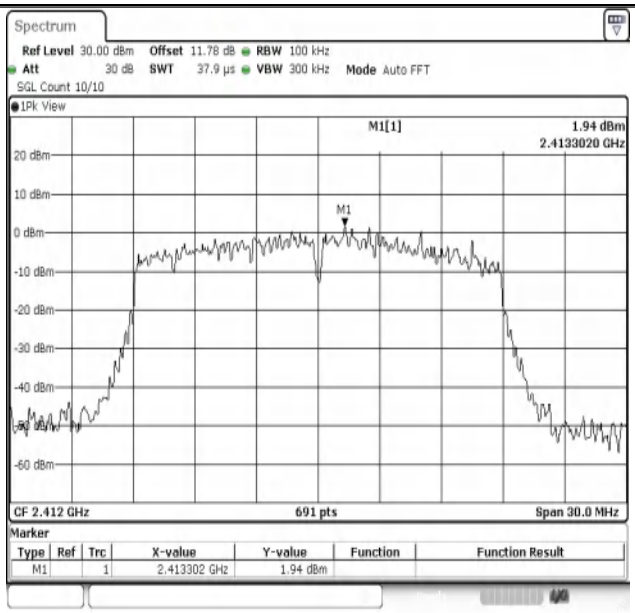

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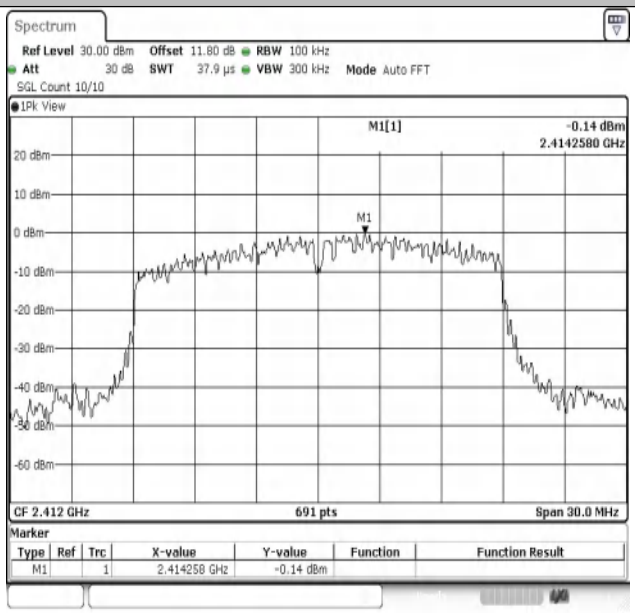

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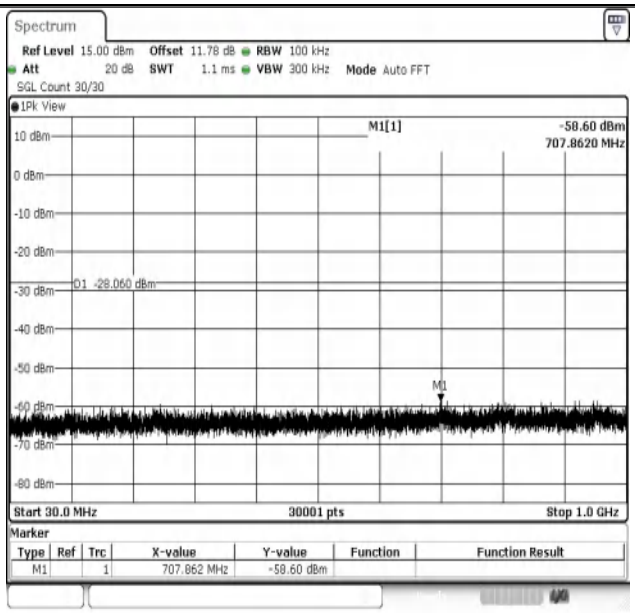

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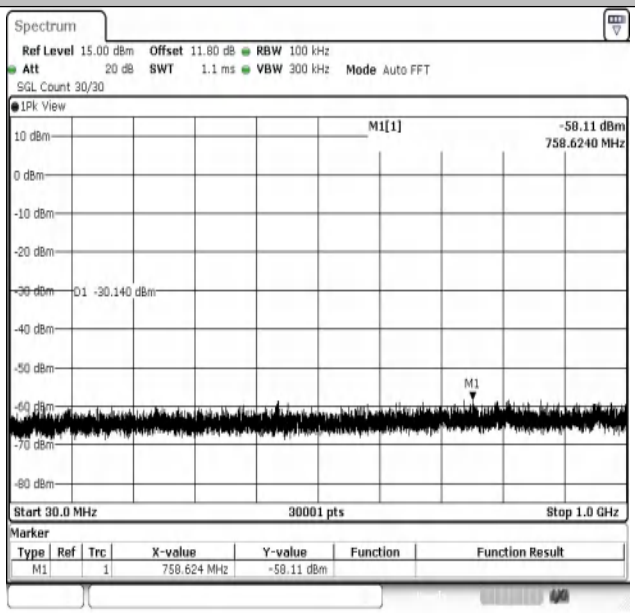

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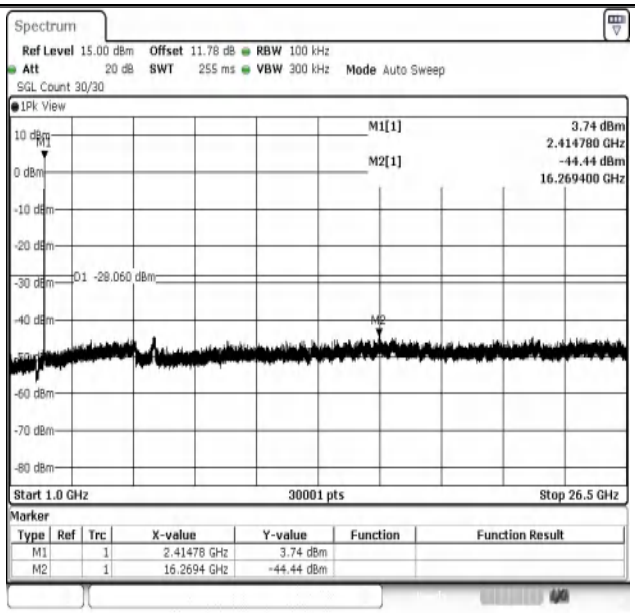

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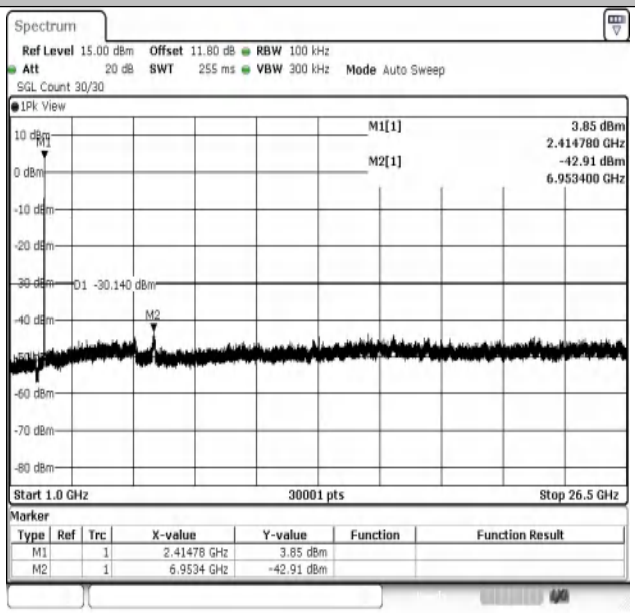

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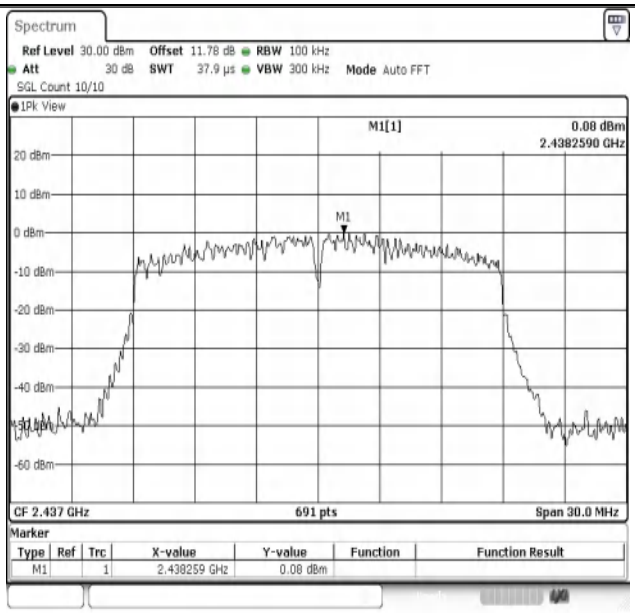

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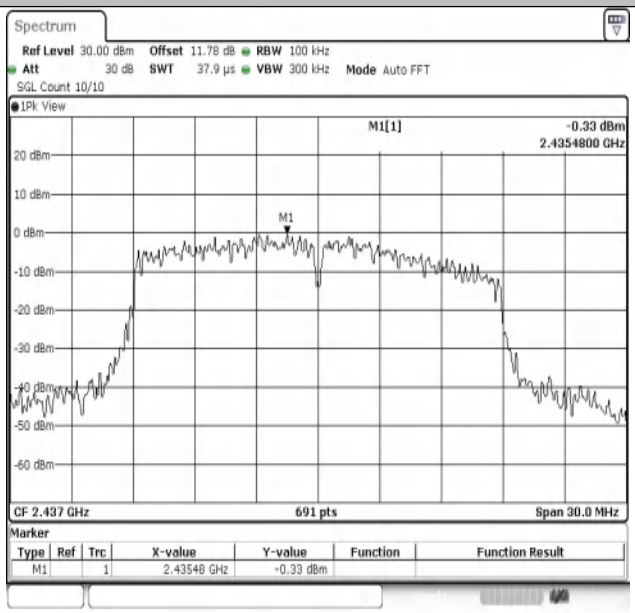

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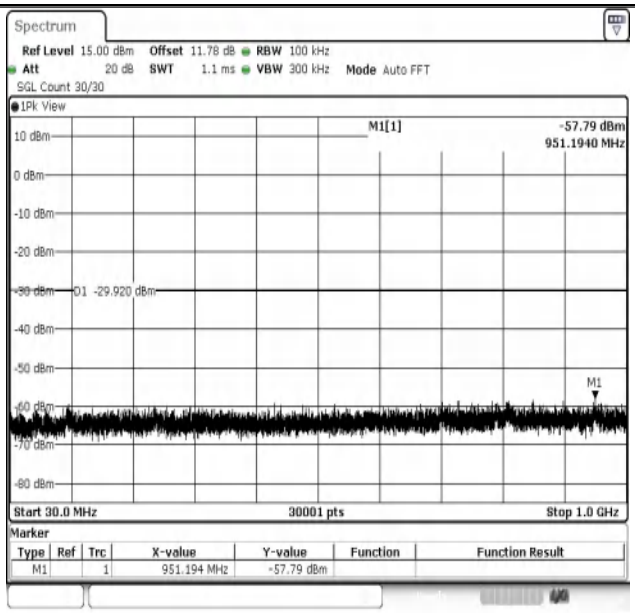

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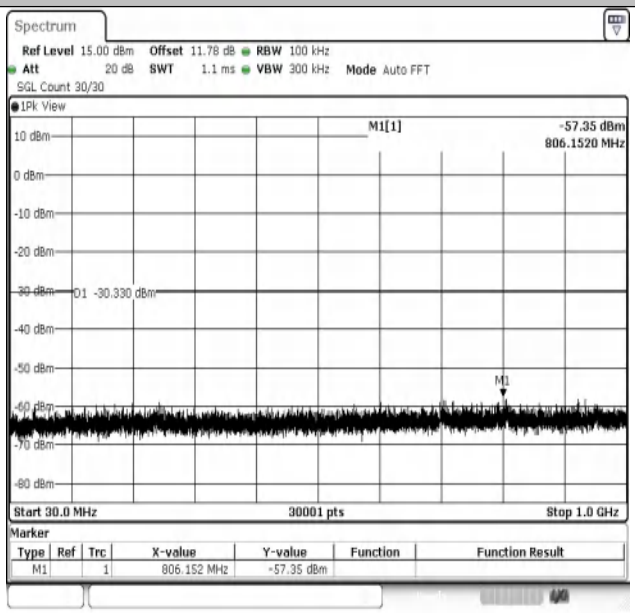

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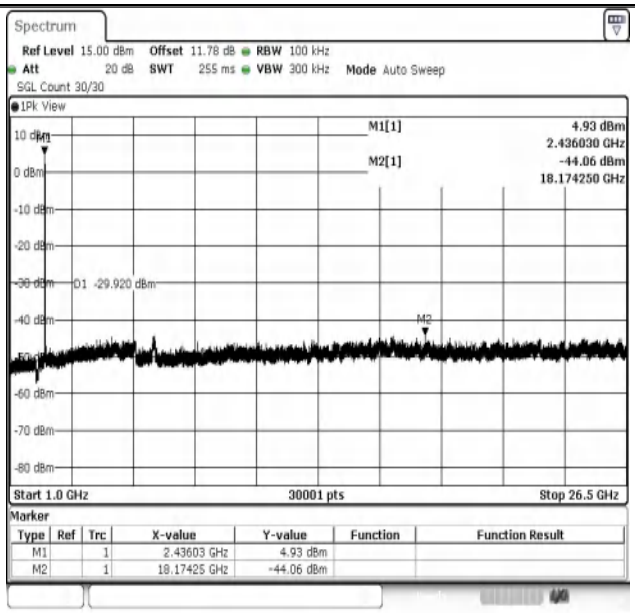

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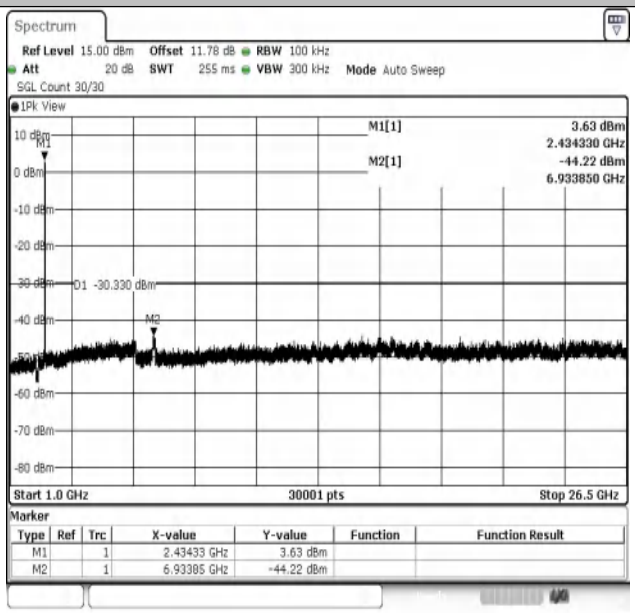

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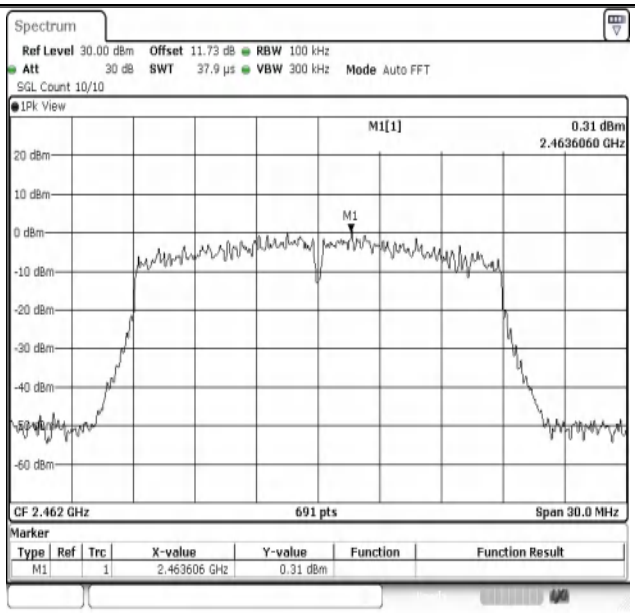

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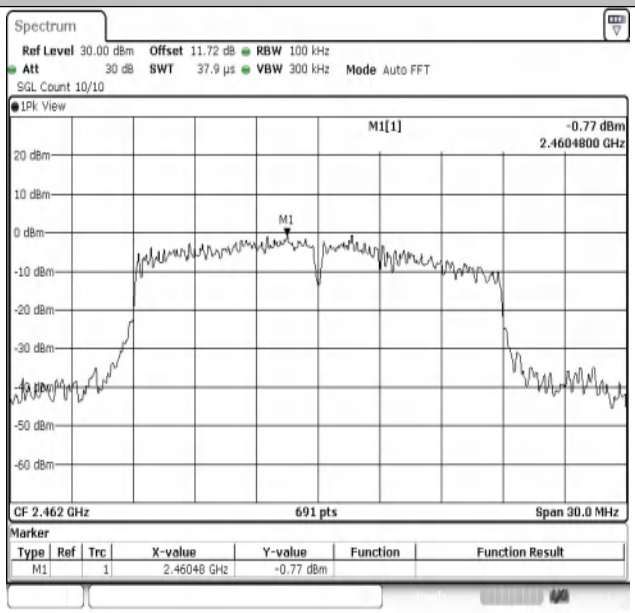

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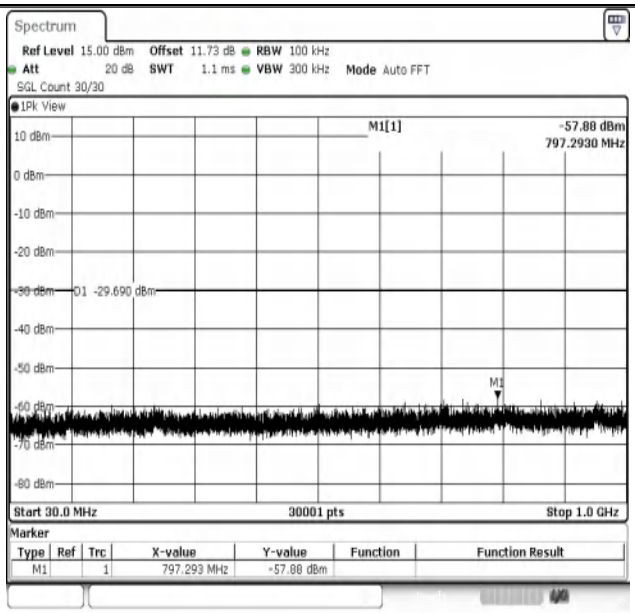

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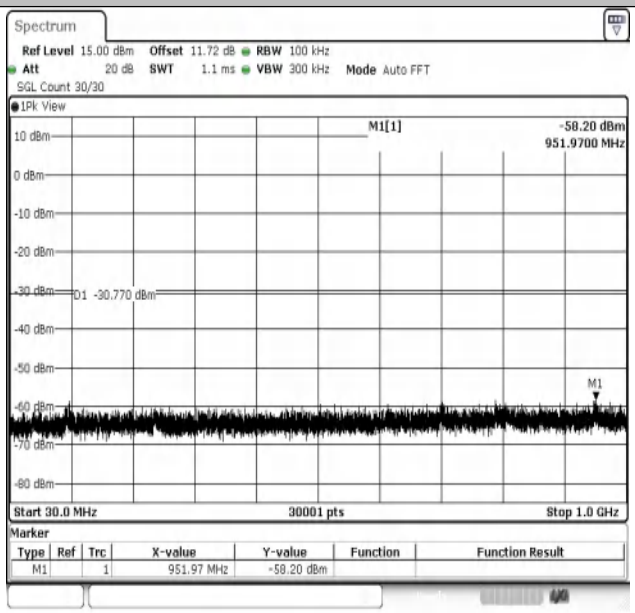

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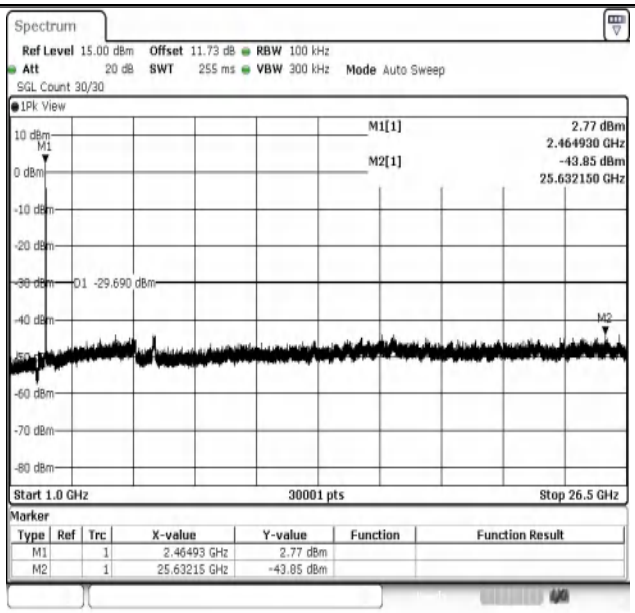
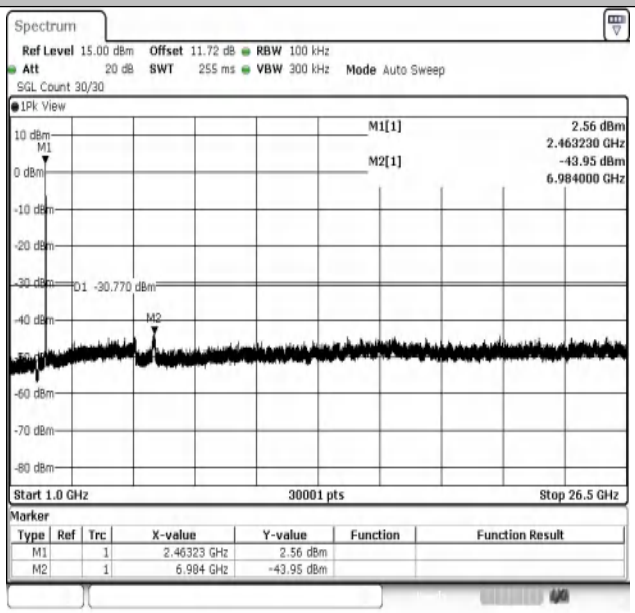
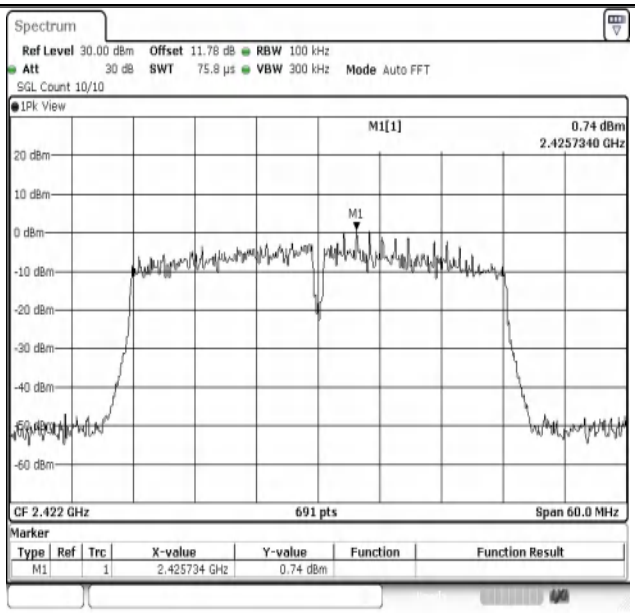


11N20MIMO-Ant1-2462-1000~26500-PASS



11N20MIMO-Ant2-2462-1000~26500-PASS



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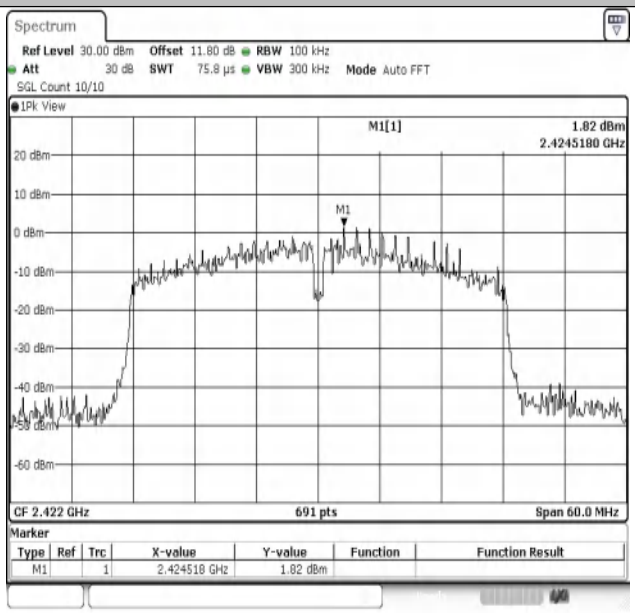
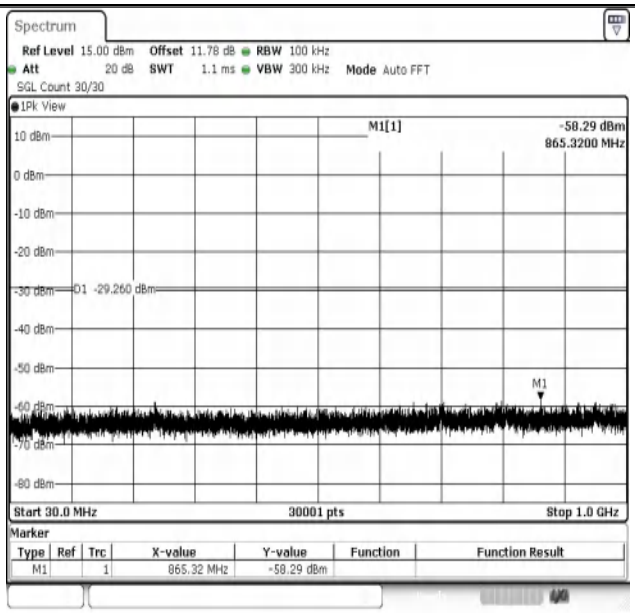


11N40MIMO-Ant2-2422-0~Reference-PASS



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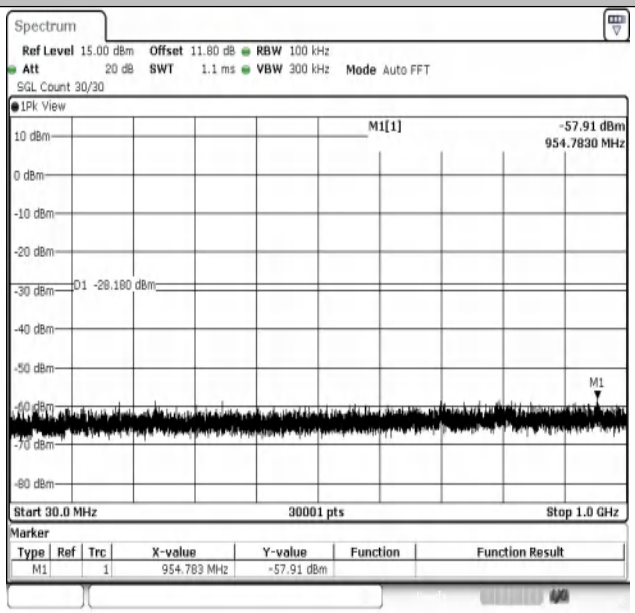
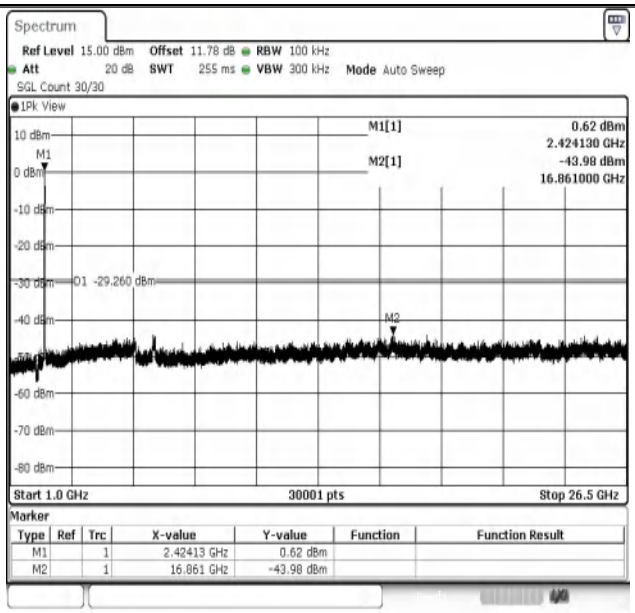


11N40MIMO-Ant2-2422-30~1000-PASS



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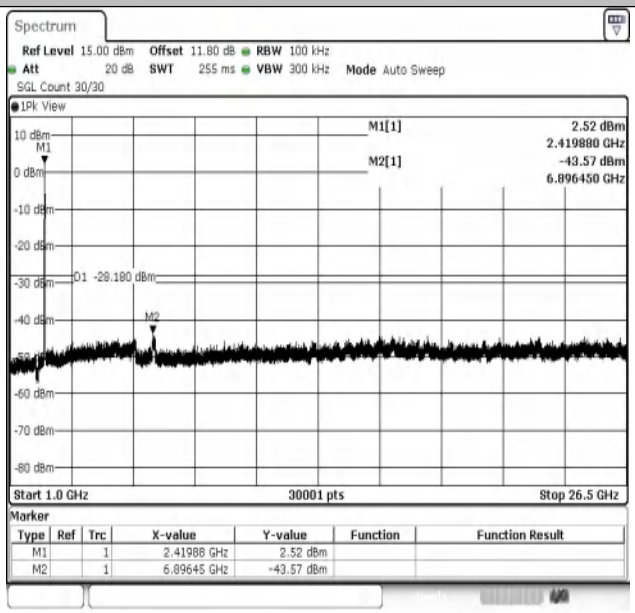
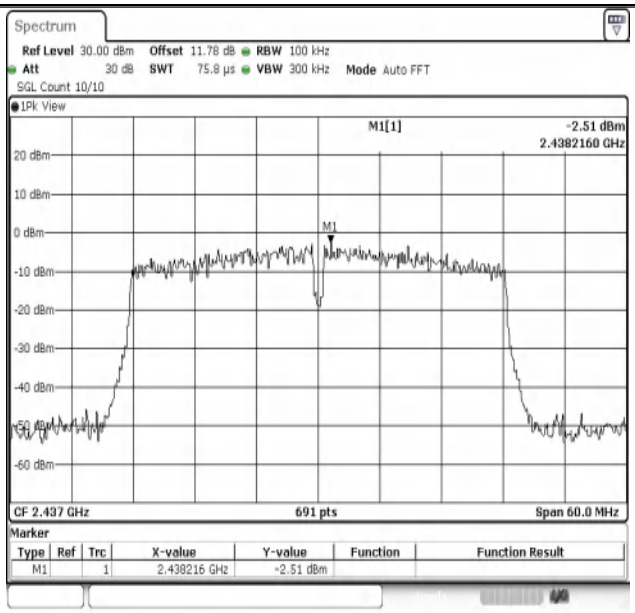


11N40MIMO-Ant2-2422-1000~26500-PASS



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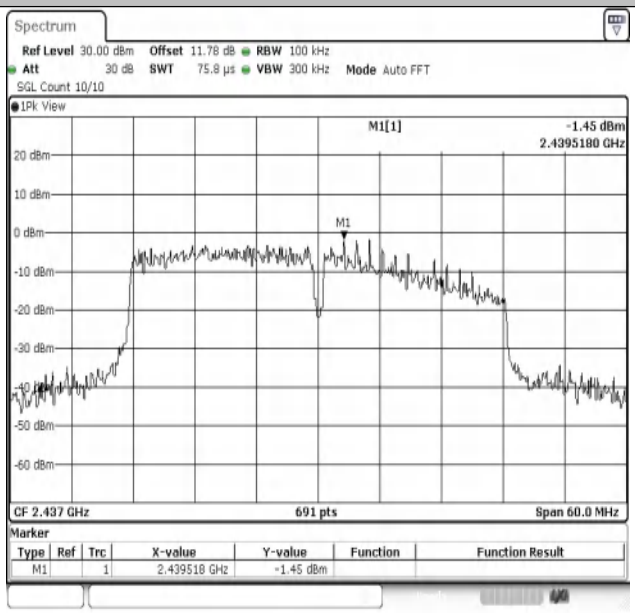

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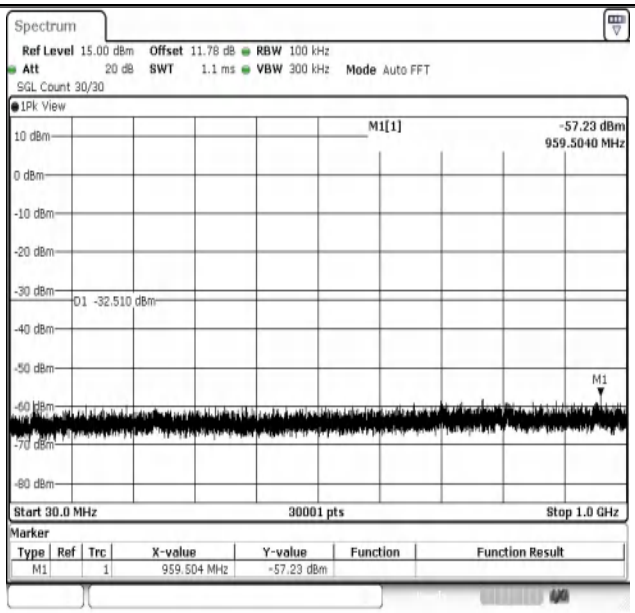
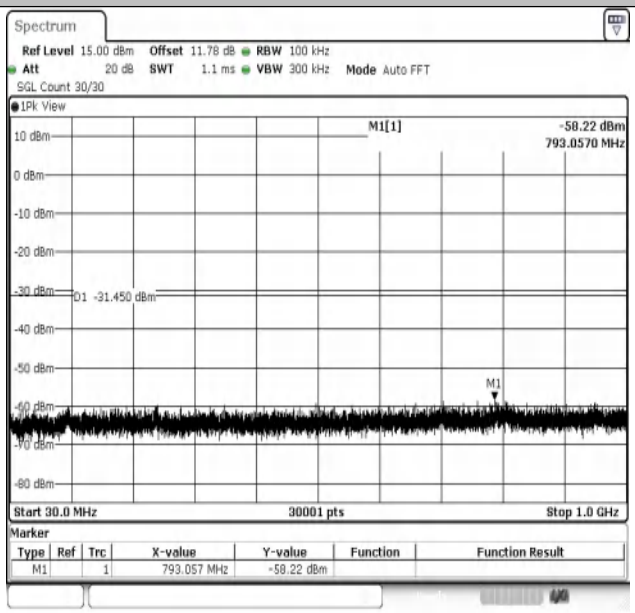


11N40MIMO-Ant1-2437-30~1000-PASS



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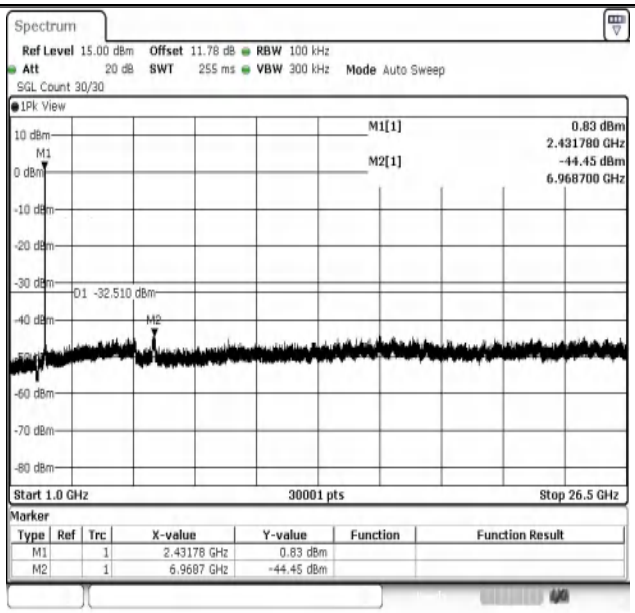
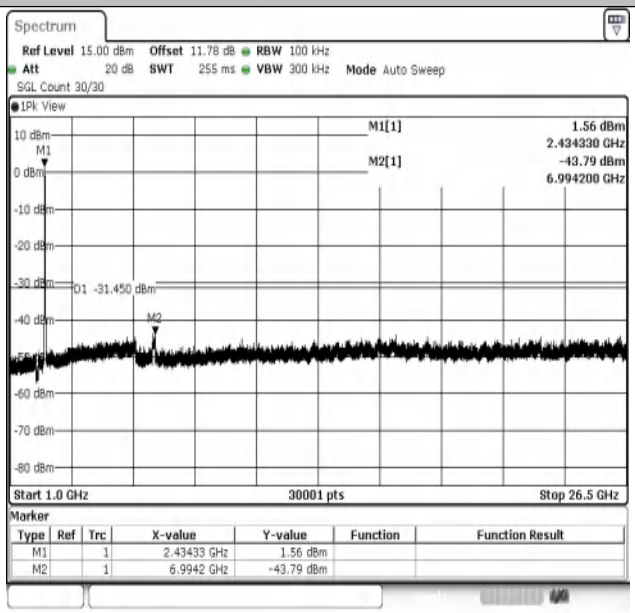


11N40MIMO-Ant1-2437-1000~26500-PASS



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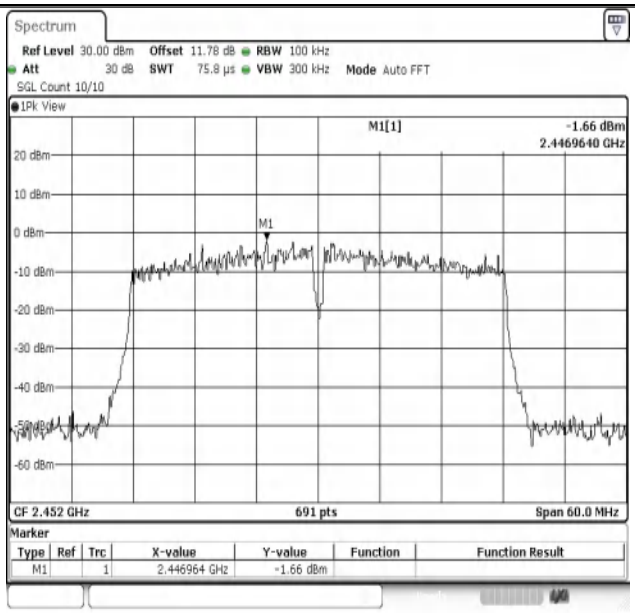
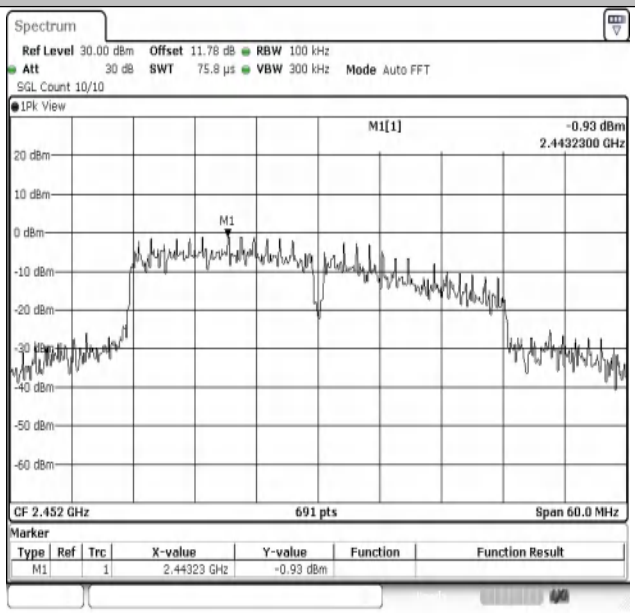


11N40MIMO-Ant1-2452-0~Reference-PASS



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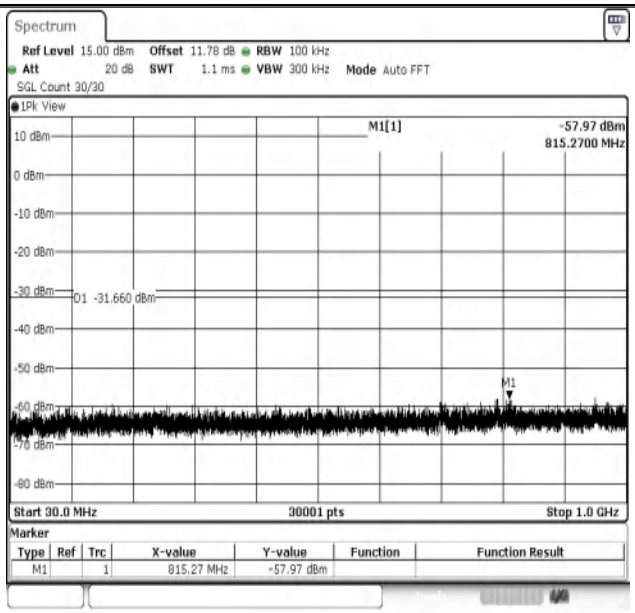

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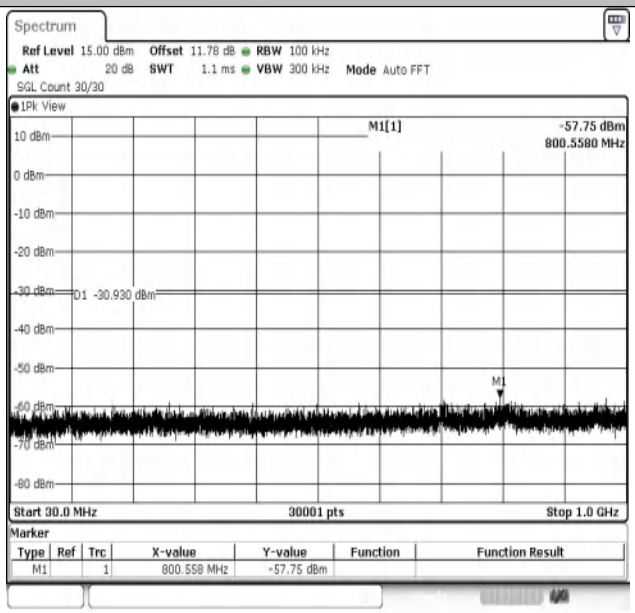

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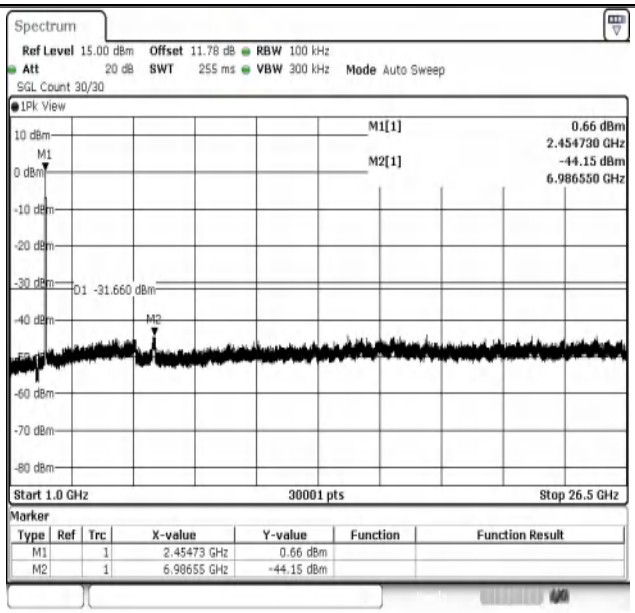

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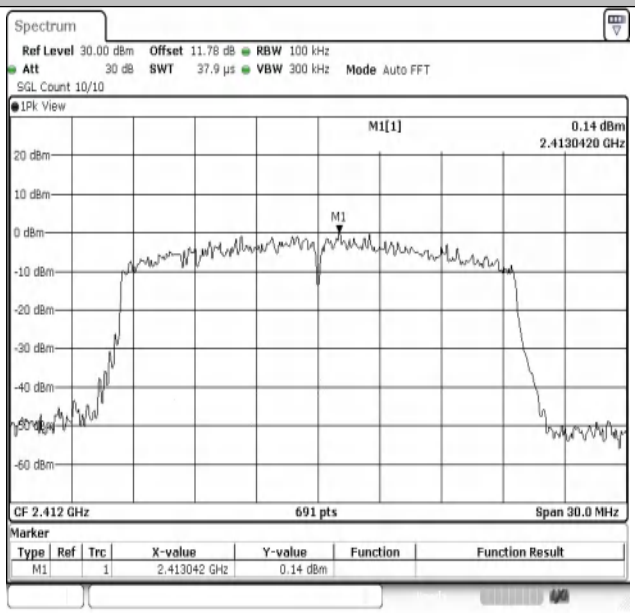
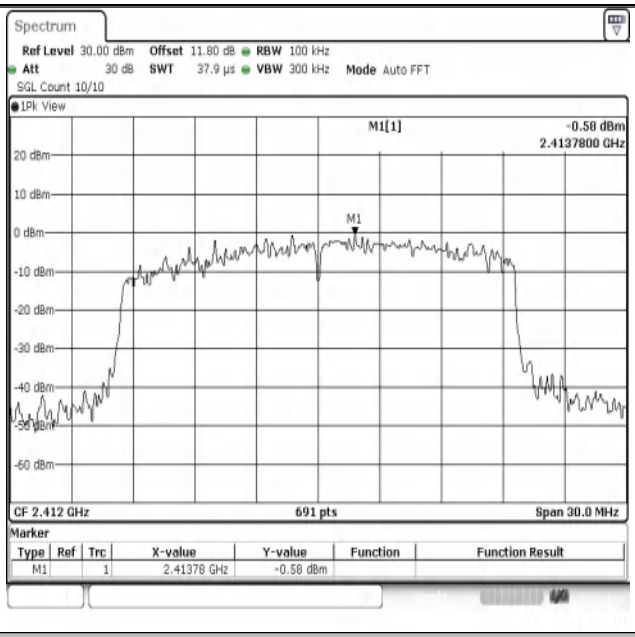
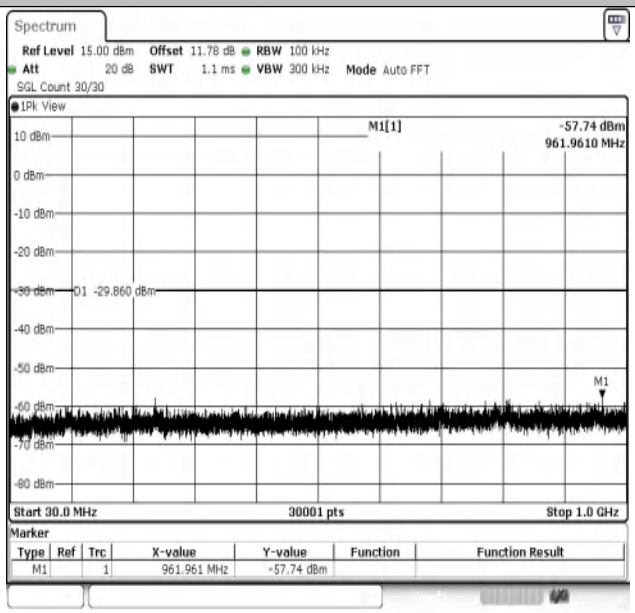


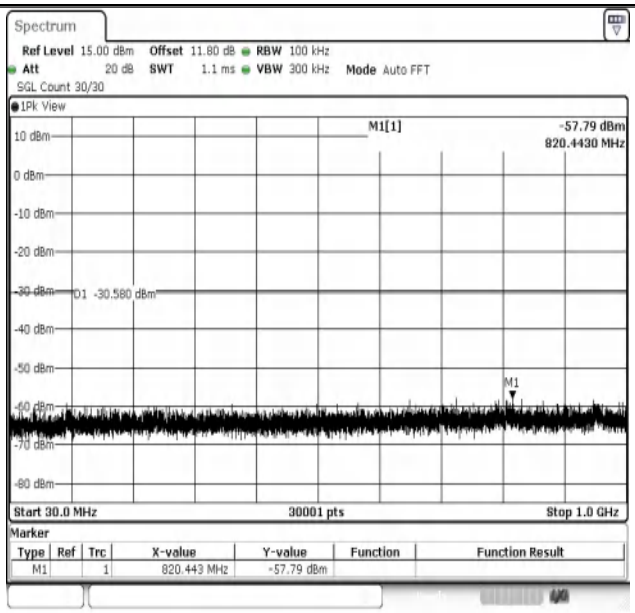
11AX20MIMO-Ant1-2412-0~Reference-PASS



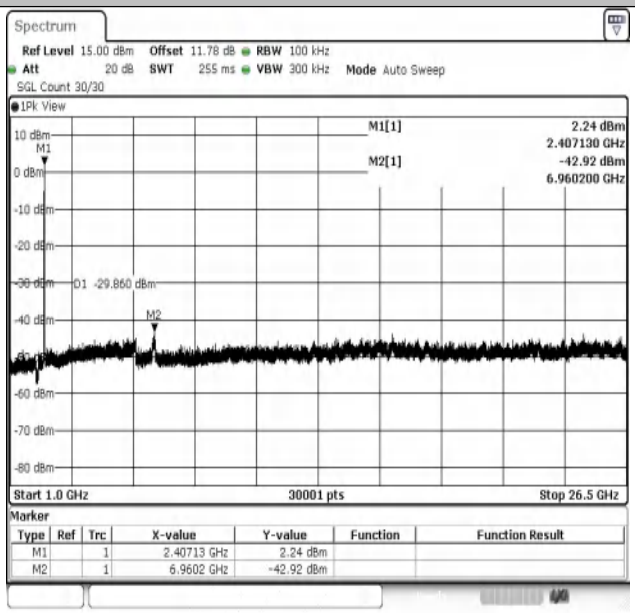
11AX20MIMO-Ant2-2412-0~Reference-PASS



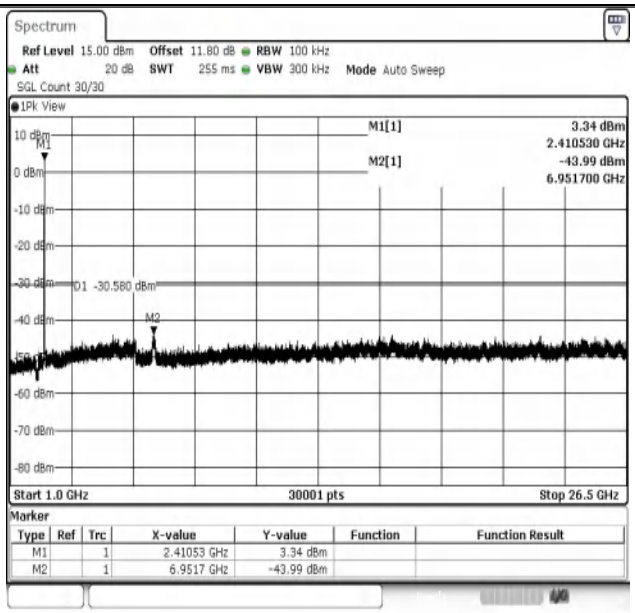
11AX20MIMO-Ant1-2412-30~1000-PASS



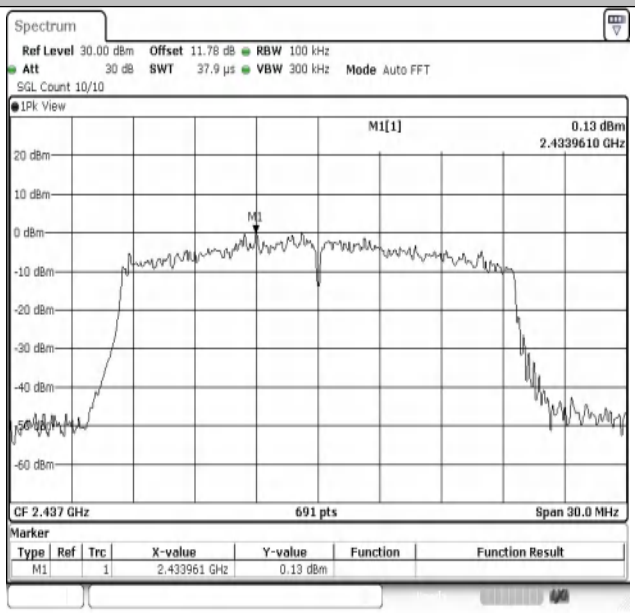
11AX20MIMO-Ant2-2412-30~1000-PASS



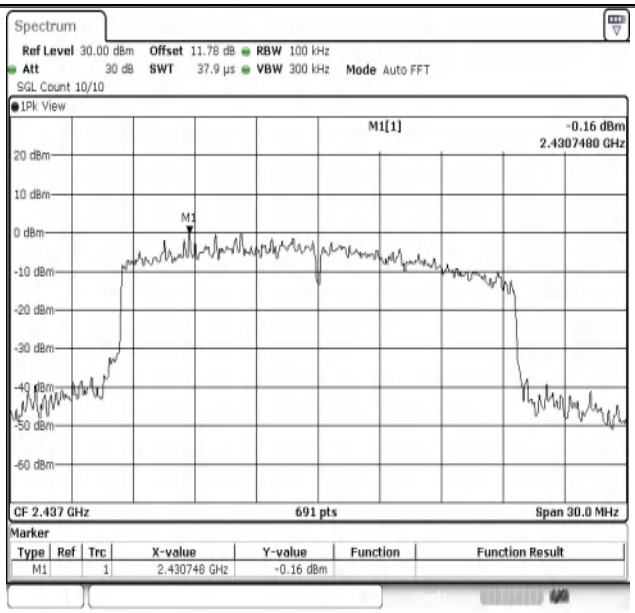
11AX20MIMO-Ant1-2412-1000~26500-PASS



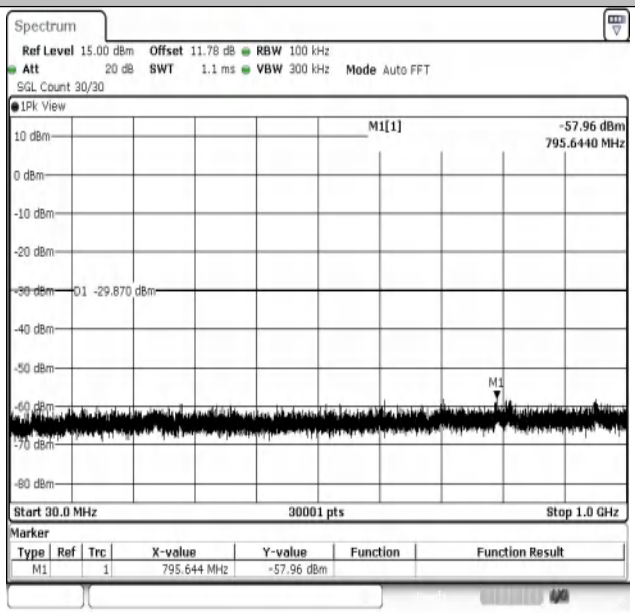
11AX20MIMO-Ant2-2412-1000~26500-PASS



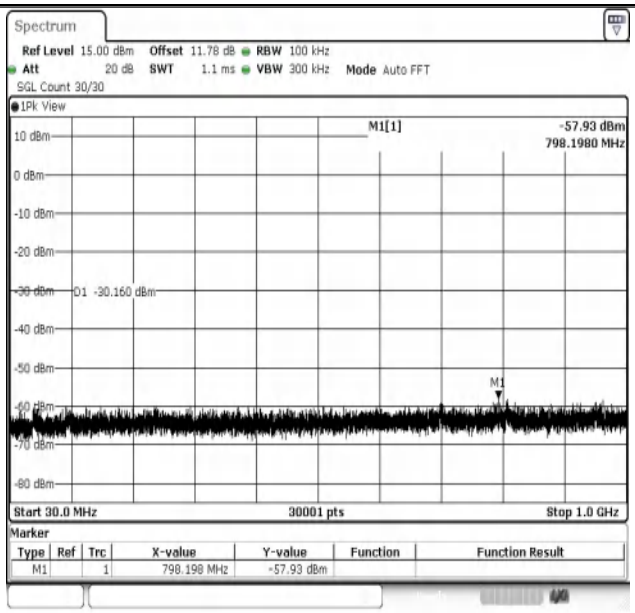
11AX20MIMO-Ant1-2437-0~Reference-PASS



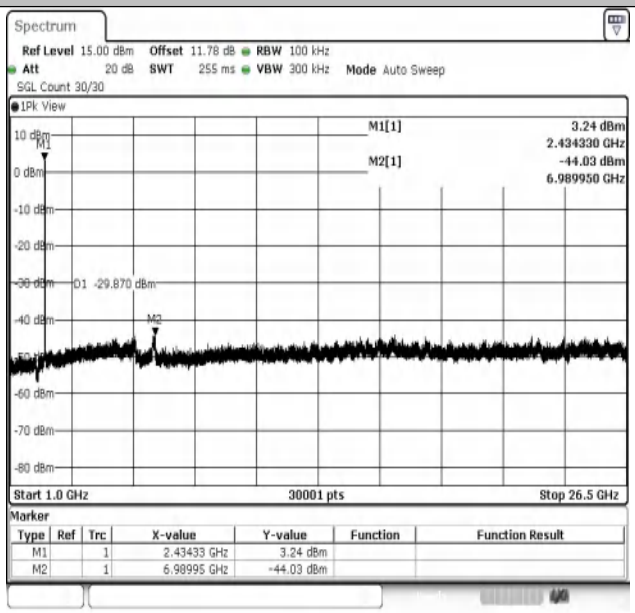
11AX20MIMO-Ant2-2437-0~Reference-PASS



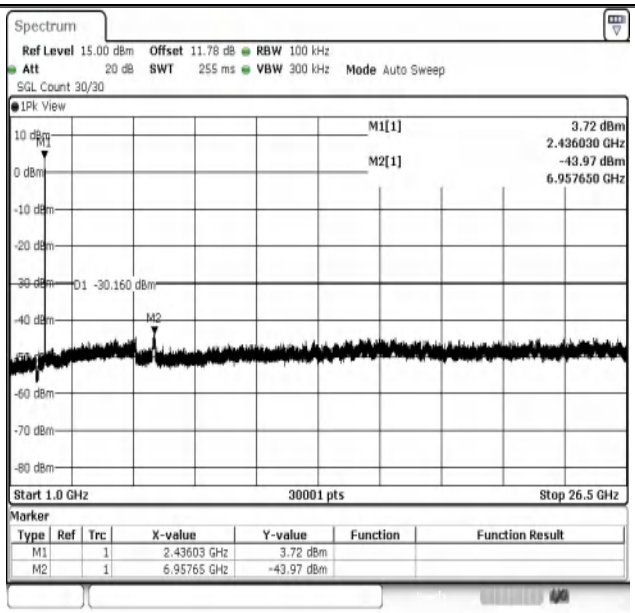
11AX20MIMO-Ant1-2437-30~1000-PASS



11AX20MIMO-Ant2-2437-30~1000-PASS



11AX20MIMO-Ant1-2437-1000~26500-PASS



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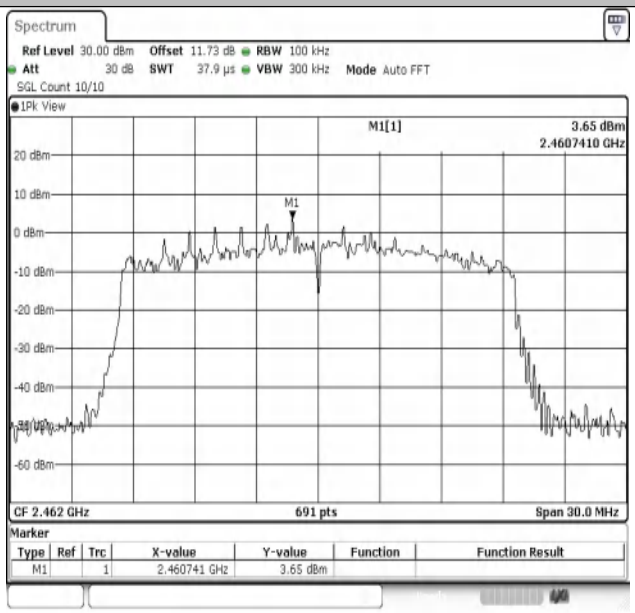
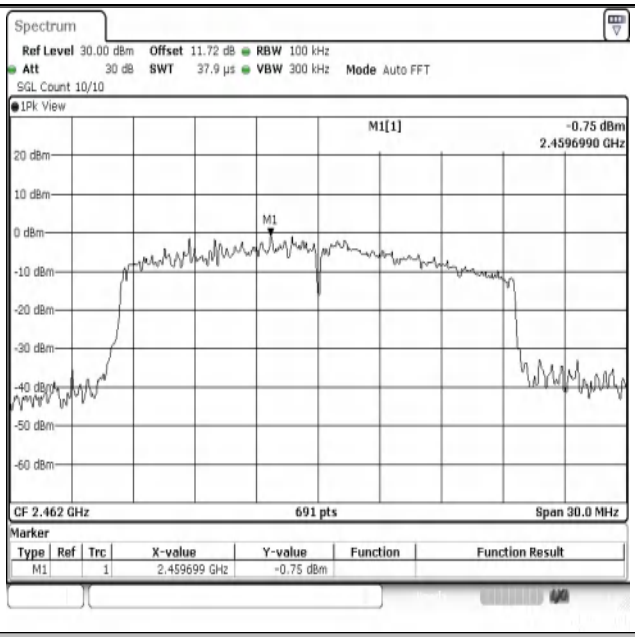
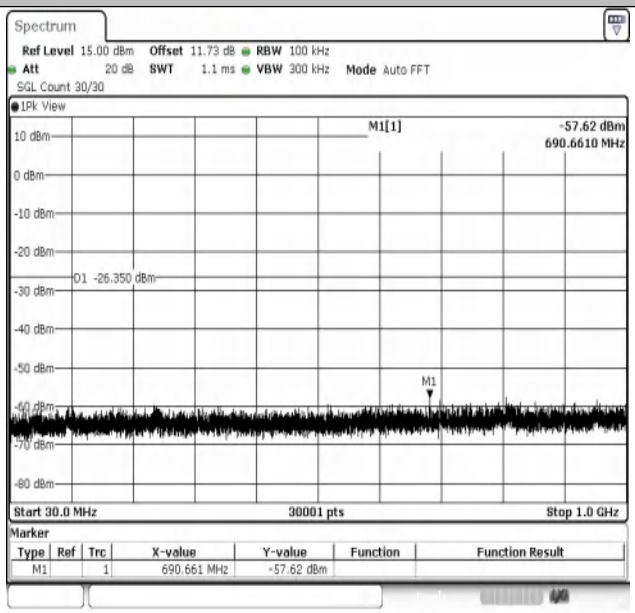


11AX20MIMO-Ant1-2462-0~Reference-PASS



11AX20MIMO-Ant2-2462-0~Reference-PASS



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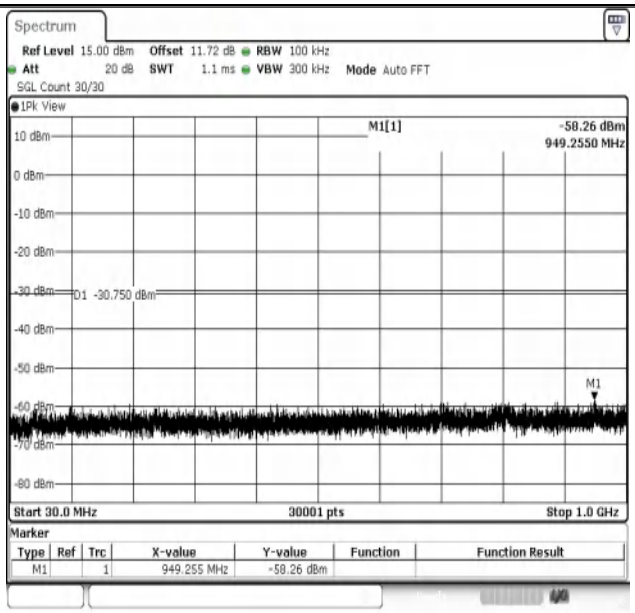

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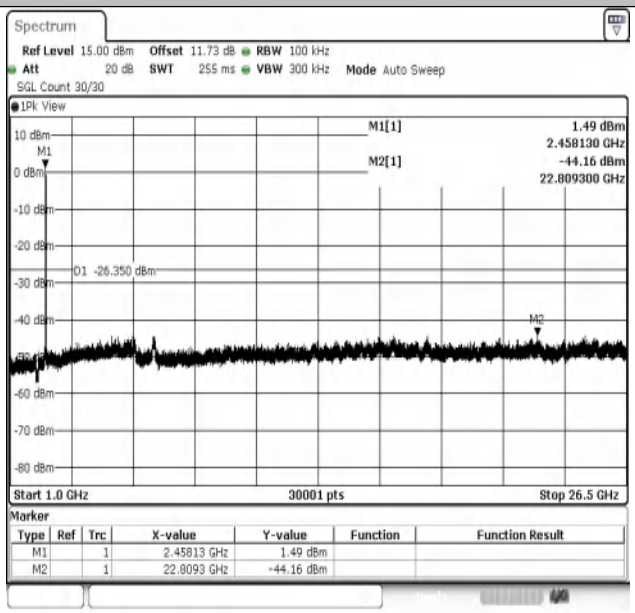

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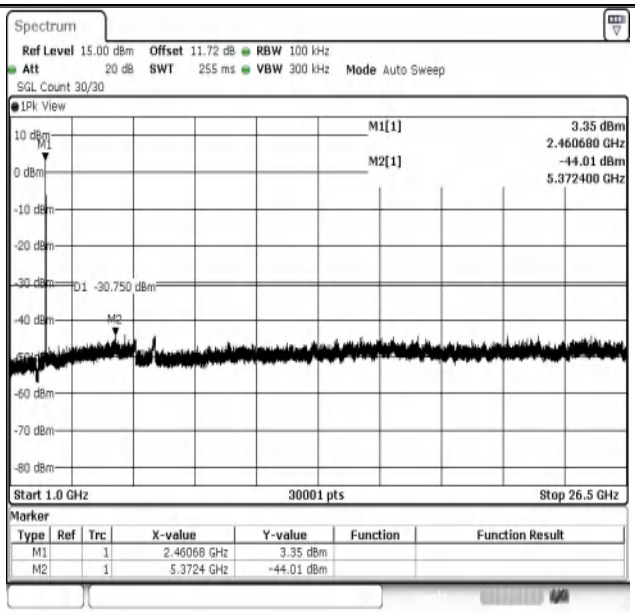

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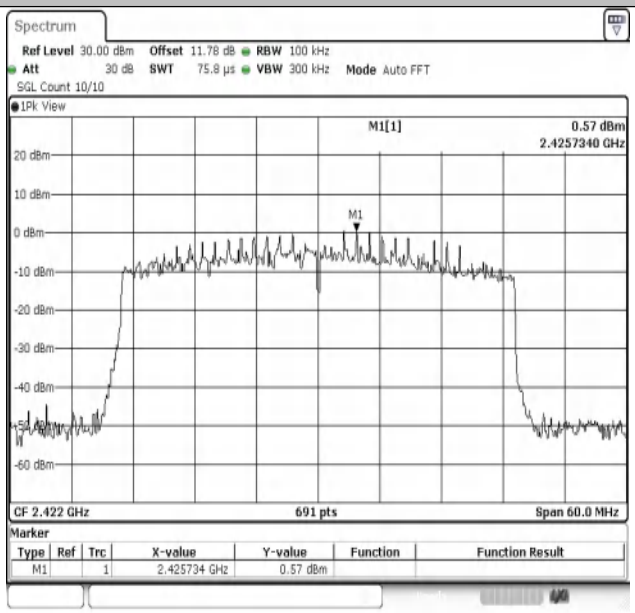
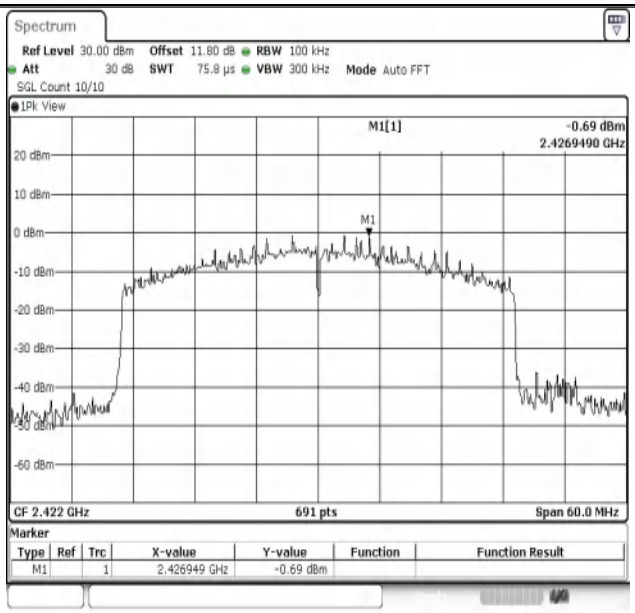


11AX40MIMO-Ant1-2422-0~Reference-PASS



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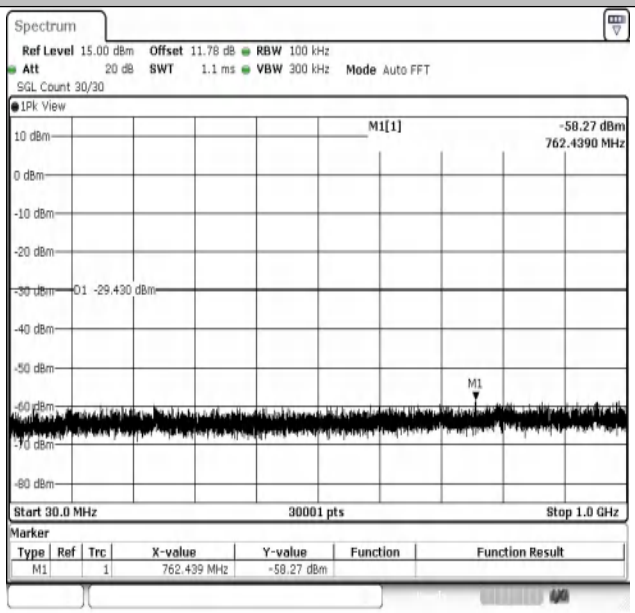
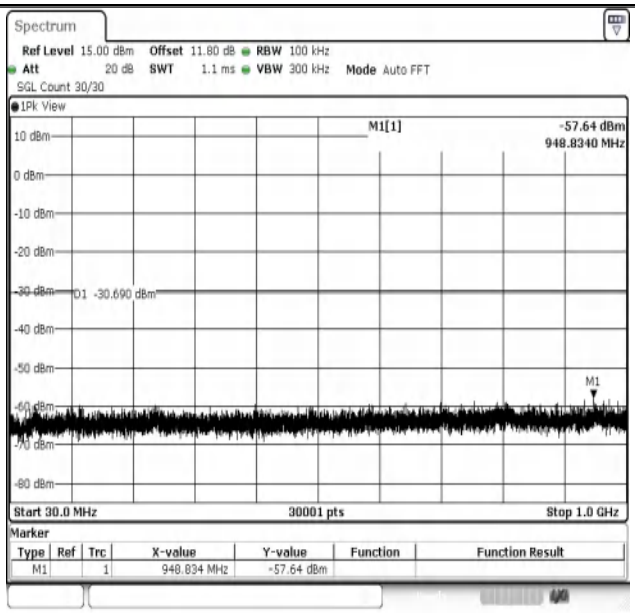
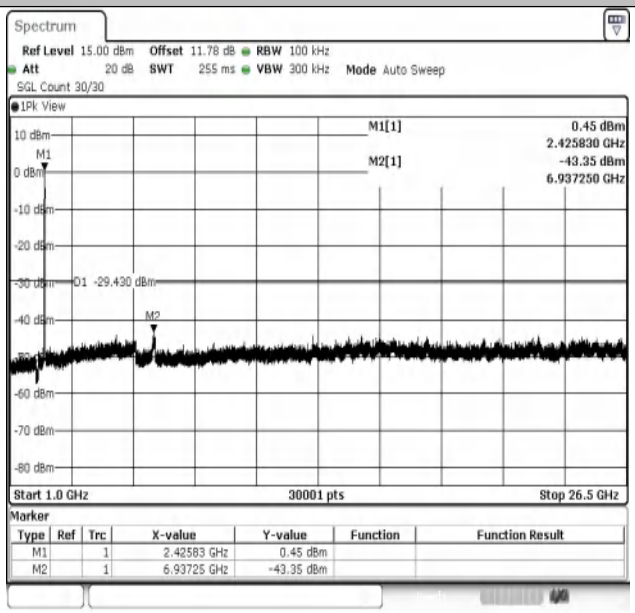


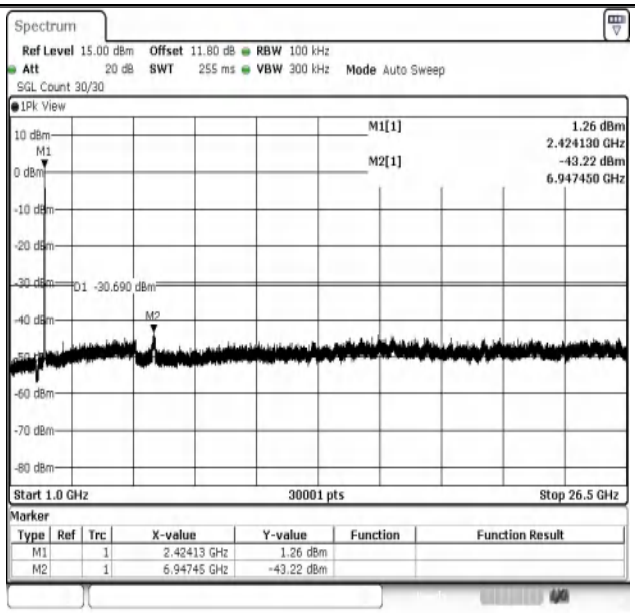
11AX40MIMO-Ant1-2422-30~1000-PASS



11AX40MIMO-Ant2-2422-30~1000-PASS



11AX40MIMO-Ant1-2422-1000~26500-PASS



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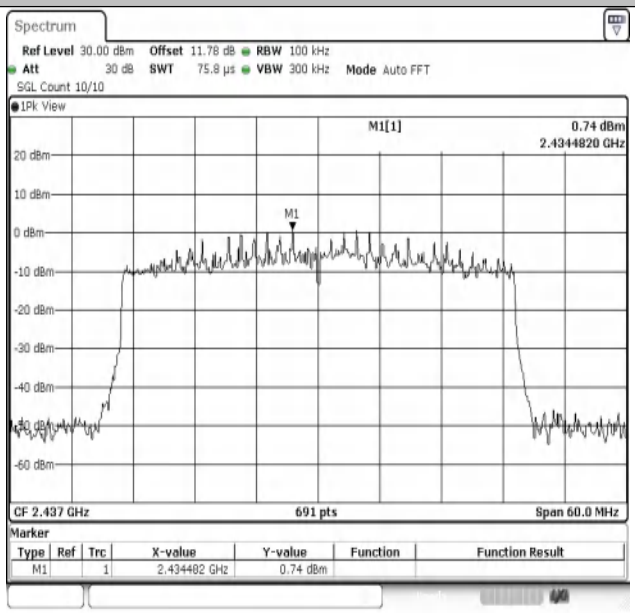
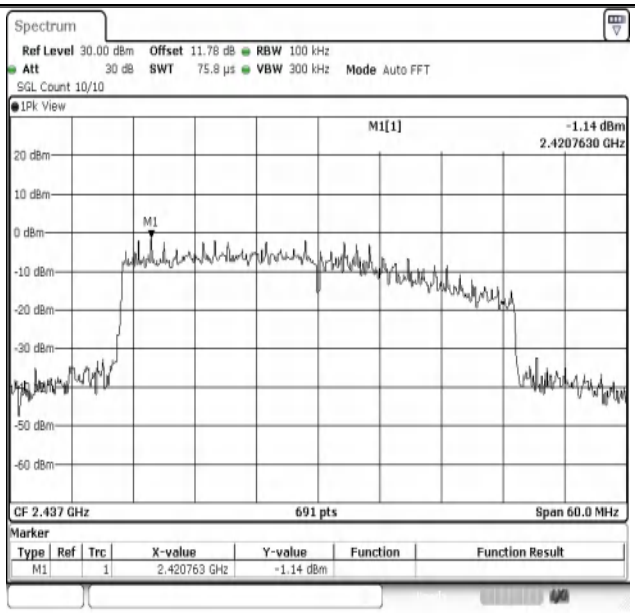


11AX40MIMO-Ant1-2437-0~Reference-PASS



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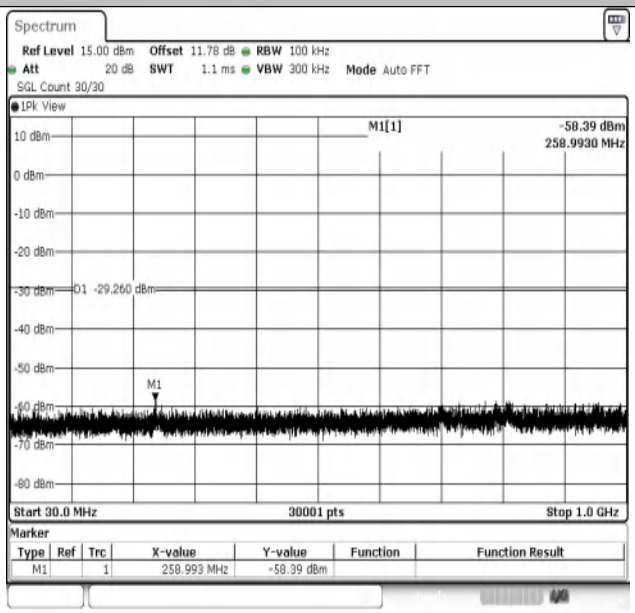
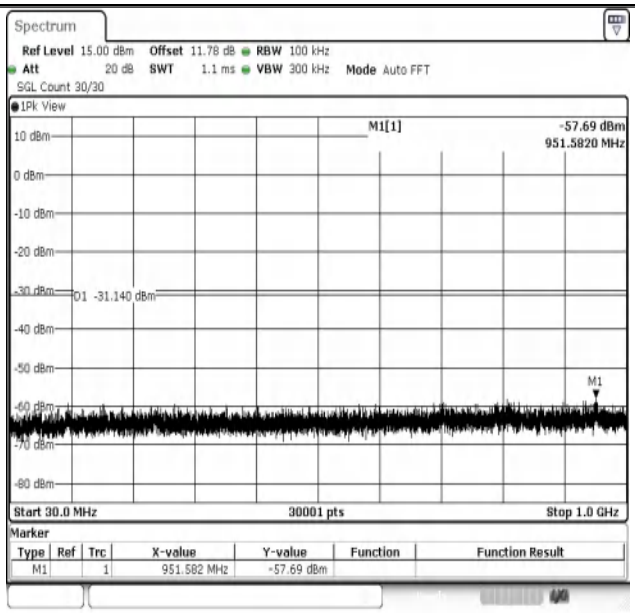
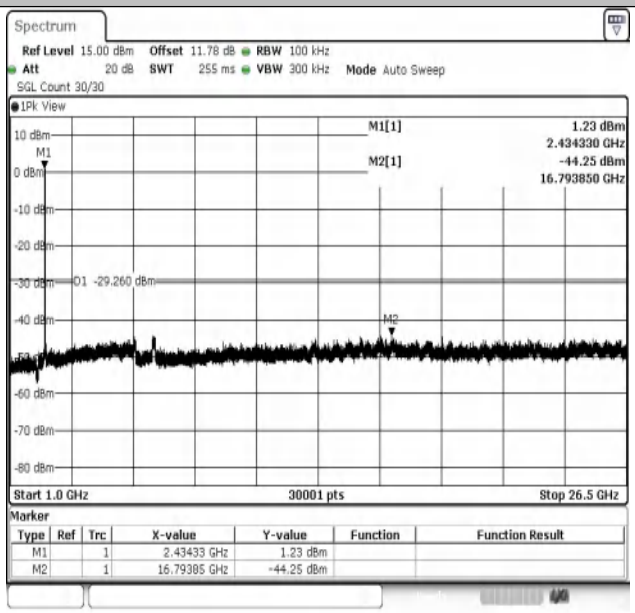


11AX40MIMO-Ant1-2437-30~1000-PASS



11AX40MIMO-Ant2-2437-30~1000-PASS



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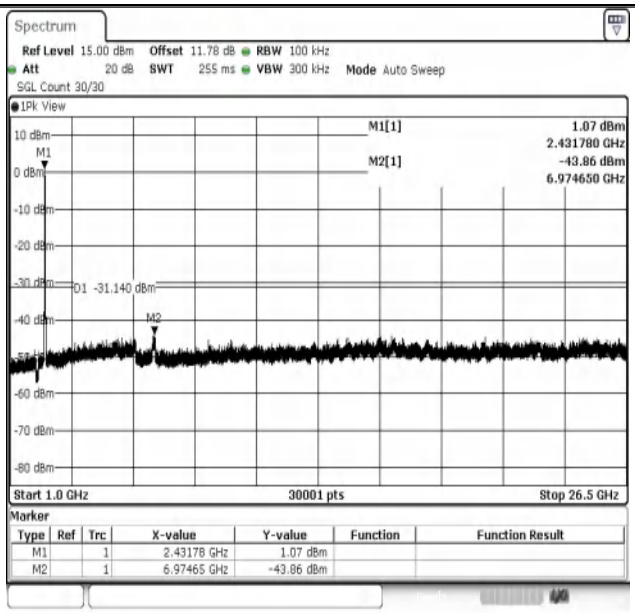

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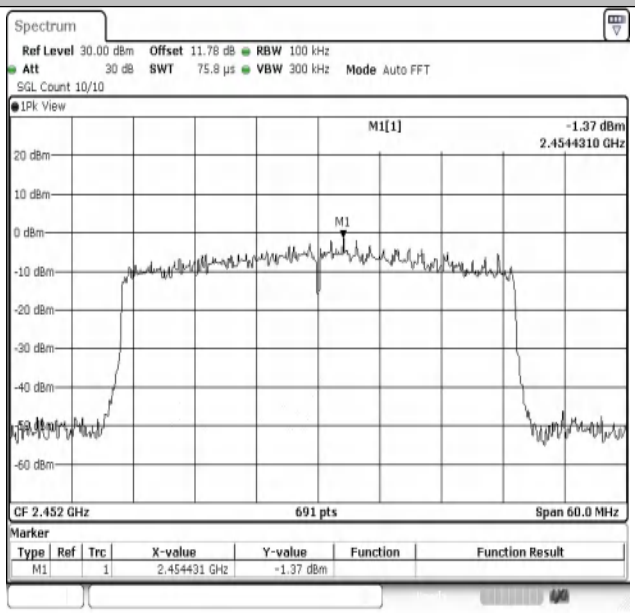

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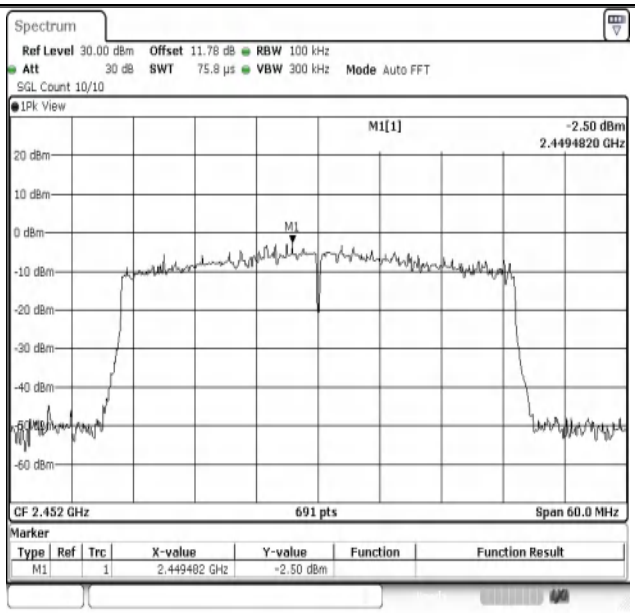

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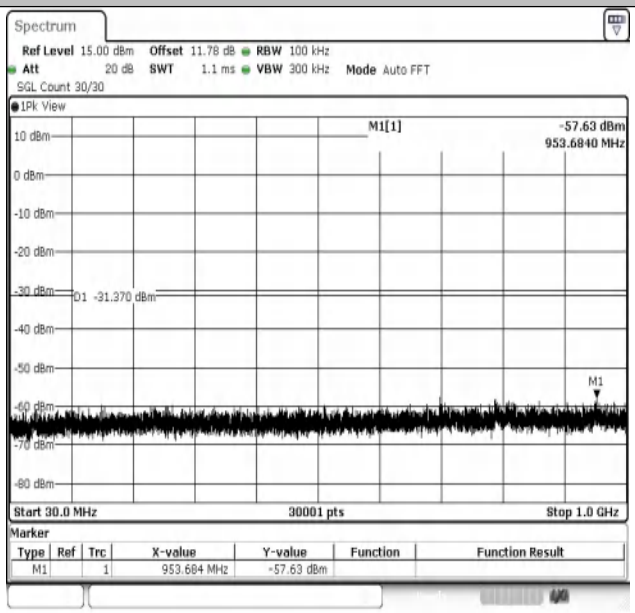

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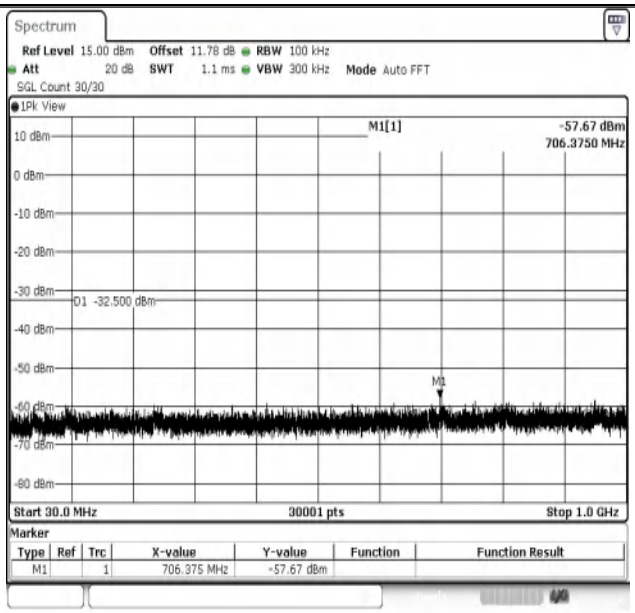
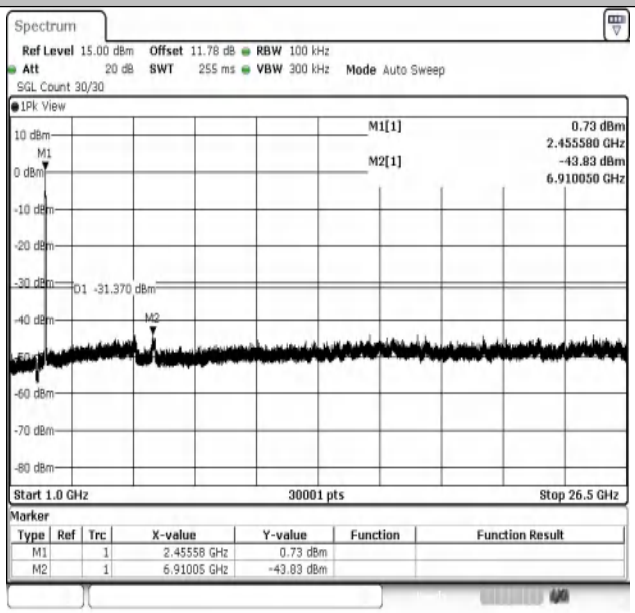
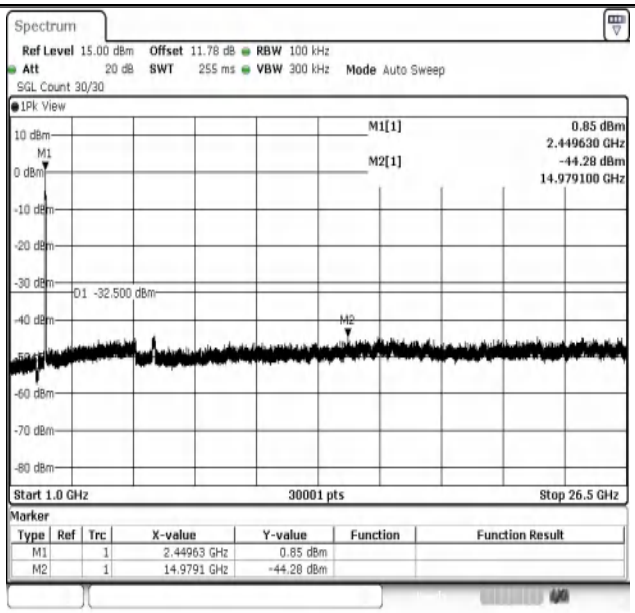


11AX40MIMO-Ant2-2452-30~1000-PASS



11AX40MIMO-Ant1-2452-1000~26500-PASS



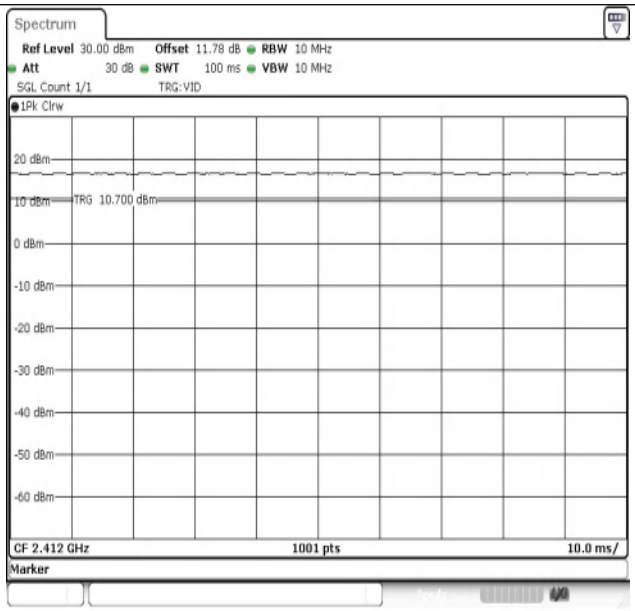
11AX40MIMO-Ant2-2452-1000~26500-PASS

Appendix G: Duty Cycle

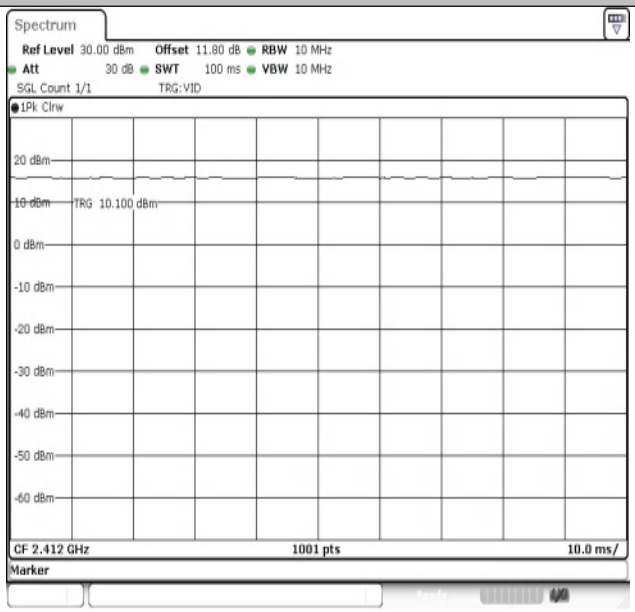
Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	100.00	100.00	100.00	0.00
11B	Ant2	2412	100.00	100.00	100.00	0.00
11B	Ant1	2437	100.00	100.00	100.00	0.00
11B	Ant2	2437	100.00	100.00	100.00	0.00
11B	Ant1	2462	100.00	100.00	100.00	0.00
11B	Ant2	2462	100.00	100.00	100.00	0.00
11G	Ant1	2412	100.00	100.00	100.00	0.00
11G	Ant2	2412	100.00	100.00	100.00	0.00
11G	Ant1	2437	100.00	100.00	100.00	0.00
11G	Ant2	2437	100.00	100.00	100.00	0.00
11G	Ant1	2462	100.00	100.00	100.00	0.00
11G	Ant2	2462	100.00	100.00	100.00	0.00
11N20MIMO	Ant1	2412	100.00	100.00	100.00	0.00
11N20MIMO	Ant2	2412	100.00	100.00	100.00	0.00
11N20MIMO	Ant1	2437	100.00	100.00	100.00	0.00
11N20MIMO	Ant2	2437	100.00	100.00	100.00	0.00
11N20MIMO	Ant1	2462	100.00	100.00	100.00	0.00
11N20MIMO	Ant2	2462	100.00	100.00	100.00	0.00
11N40MIMO	Ant1	2422	100.00	100.00	100.00	0.00
11N40MIMO	Ant2	2422	100.00	100.00	100.00	0.00
11N40MIMO	Ant1	2437	100.00	100.00	100.00	0.00
11N40MIMO	Ant2	2437	100.00	100.00	100.00	0.00
11N40MIMO	Ant1	2452	100.00	100.00	100.00	0.00
11N40MIMO	Ant2	2452	100.00	100.00	100.00	0.00
11AX20MIMO	Ant1	2412	100.00	100.00	100.00	0.00
11AX20MIMO	Ant2	2412	100.00	100.00	100.00	0.00
11AX20MIMO	Ant1	2437	100.00	100.00	100.00	0.00
11AX20MIMO	Ant2	2437	100.00	100.00	100.00	0.00
11AX20MIMO	Ant1	2462	100.00	100.00	100.00	0.00
11AX20MIMO	Ant2	2462	100.00	100.00	100.00	0.00
11AX40MIMO	Ant1	2422	100.00	100.00	100.00	0.00
11AX40MIMO	Ant2	2422	100.00	100.00	100.00	0.00
11AX40MIMO	Ant1	2437	100.00	100.00	100.00	0.00
11AX40MIMO	Ant2	2437	100.00	100.00	100.00	0.00
11AX40MIMO	Ant1	2452	100.00	100.00	100.00	0.00
11AX40MIMO	Ant2	2452	100.00	100.00	100.00	0.00

Test Graphs



NTNV-11B-Ant1-2412



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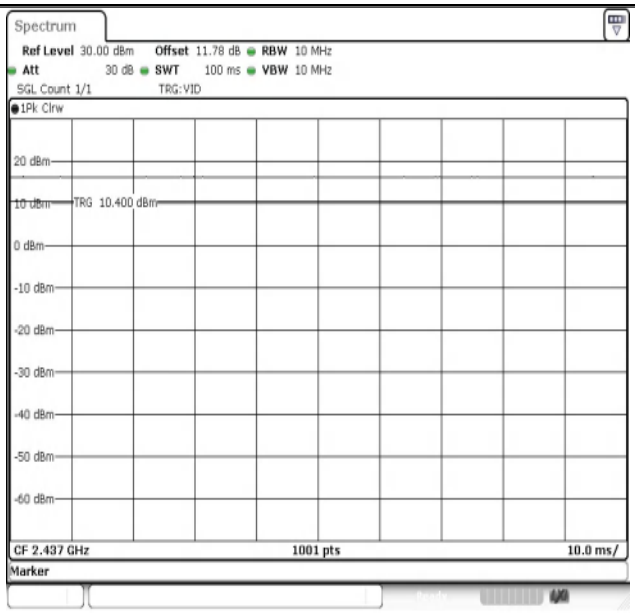

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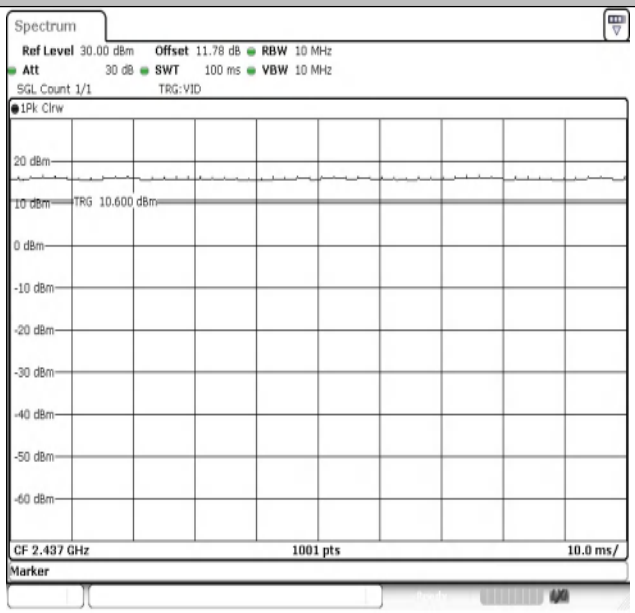

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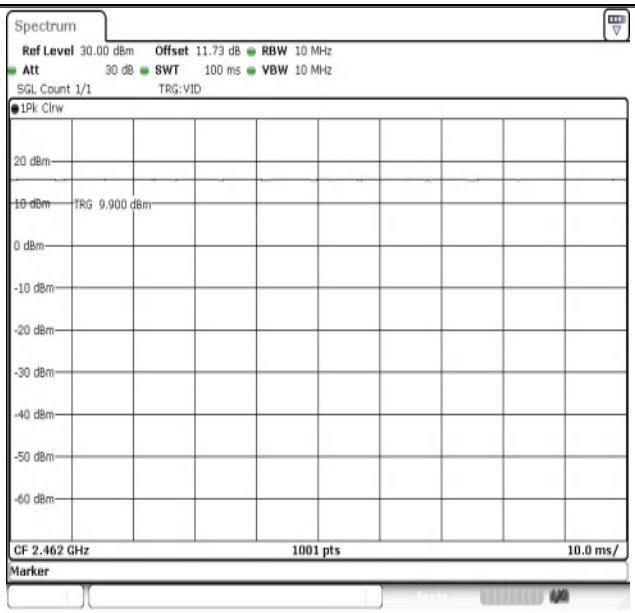

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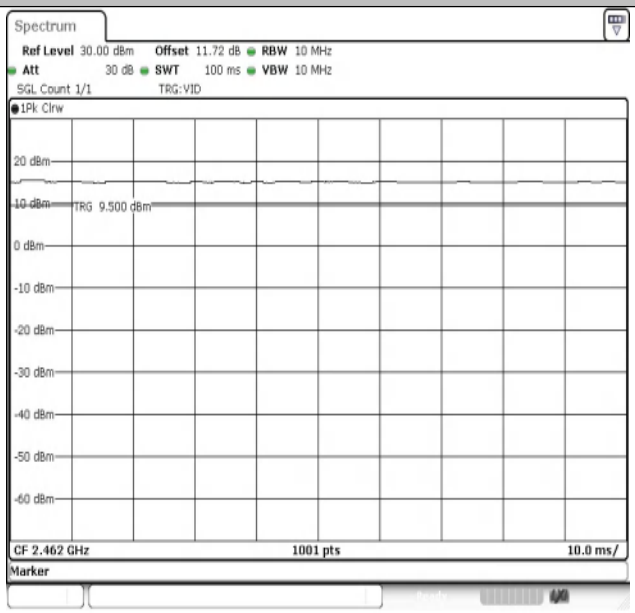

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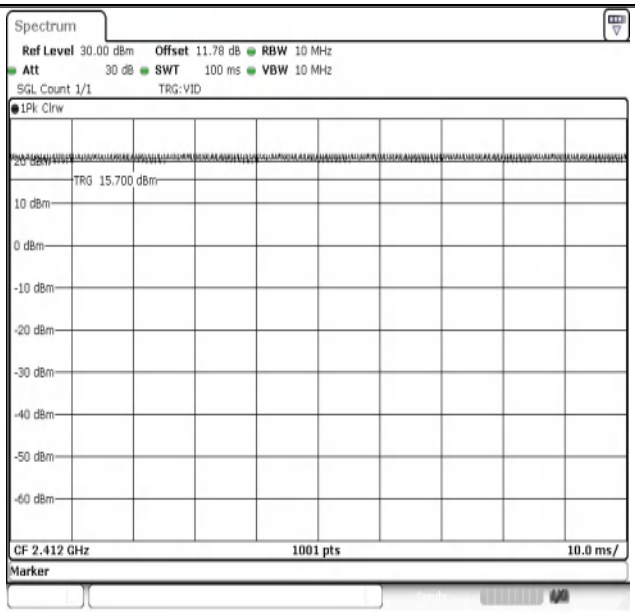

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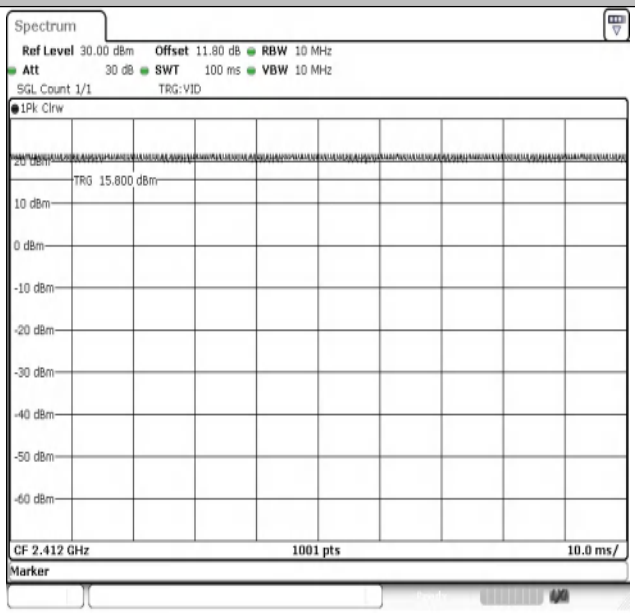

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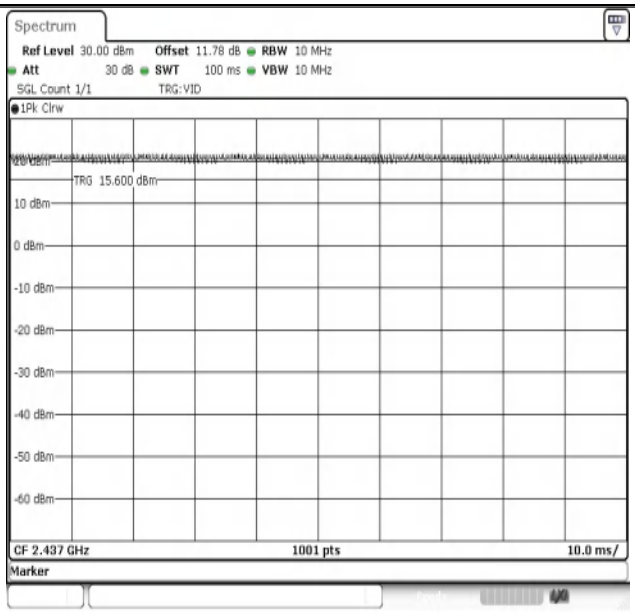

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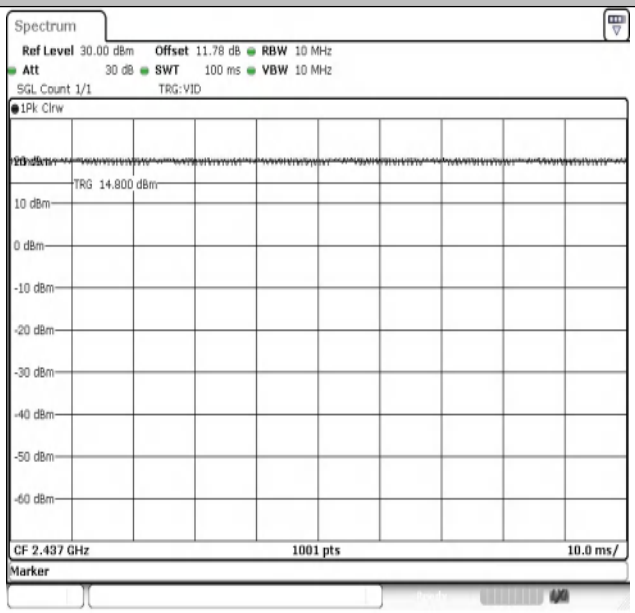

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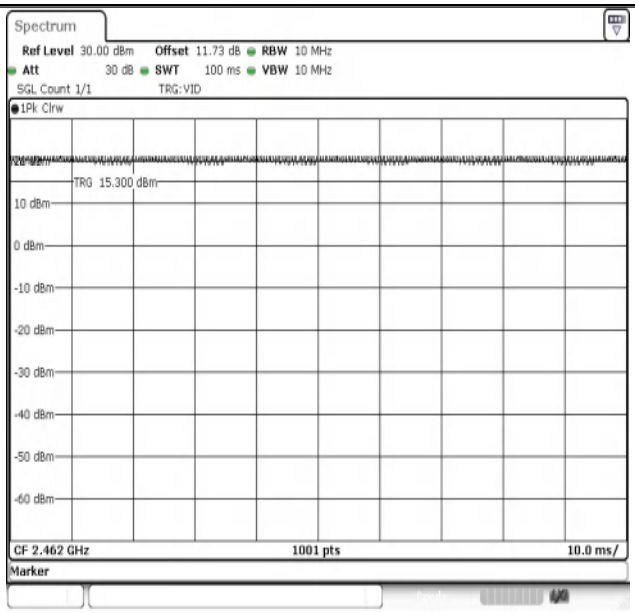

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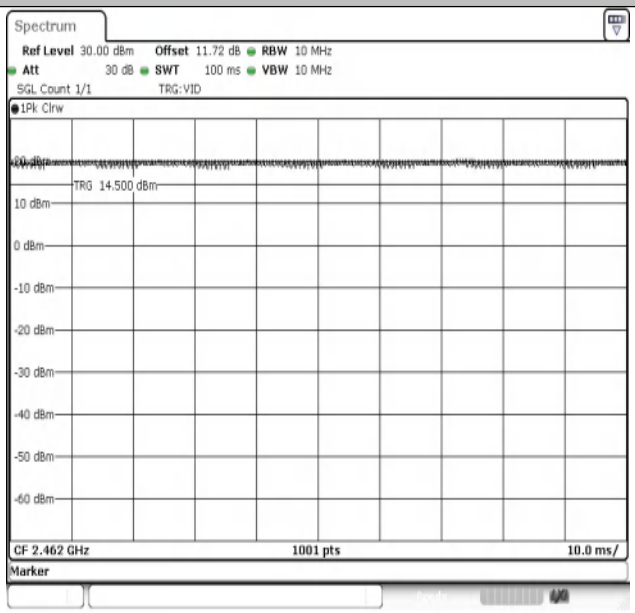

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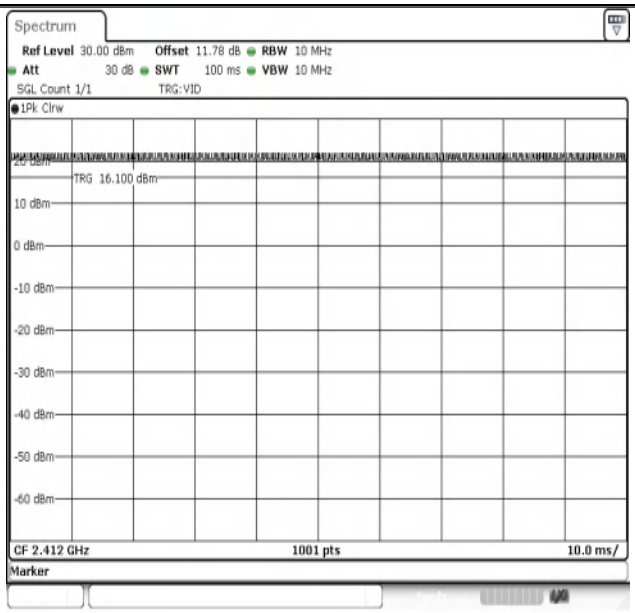

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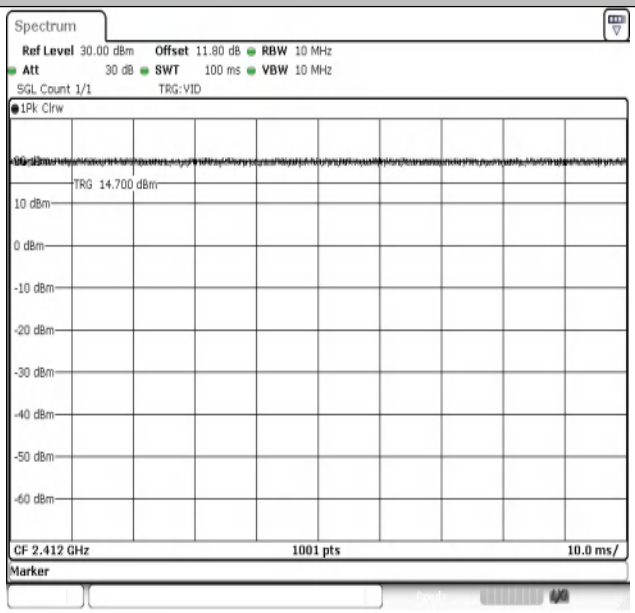

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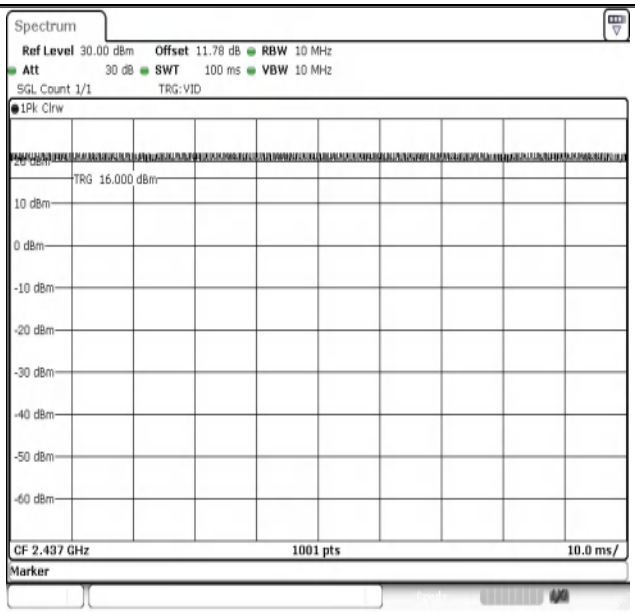

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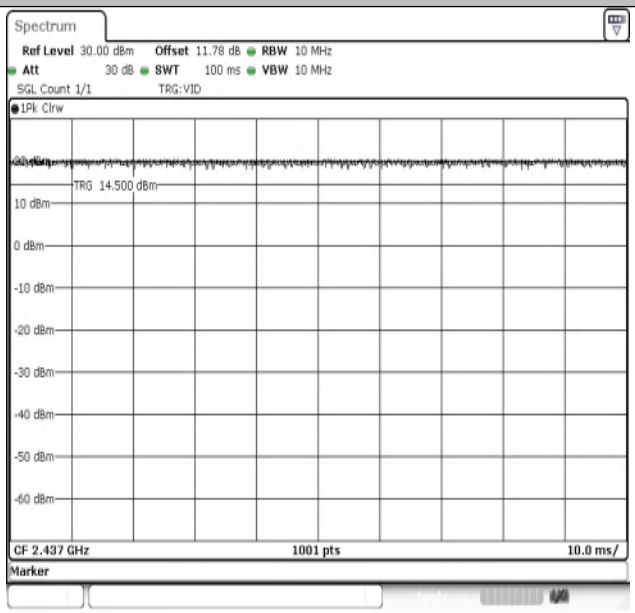

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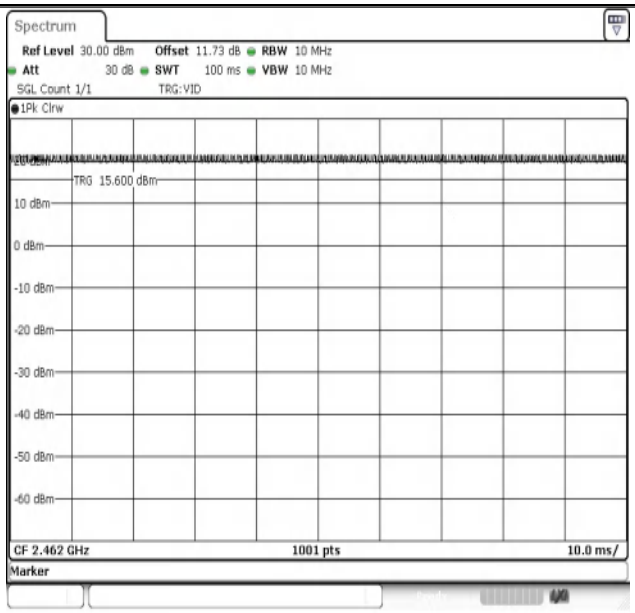

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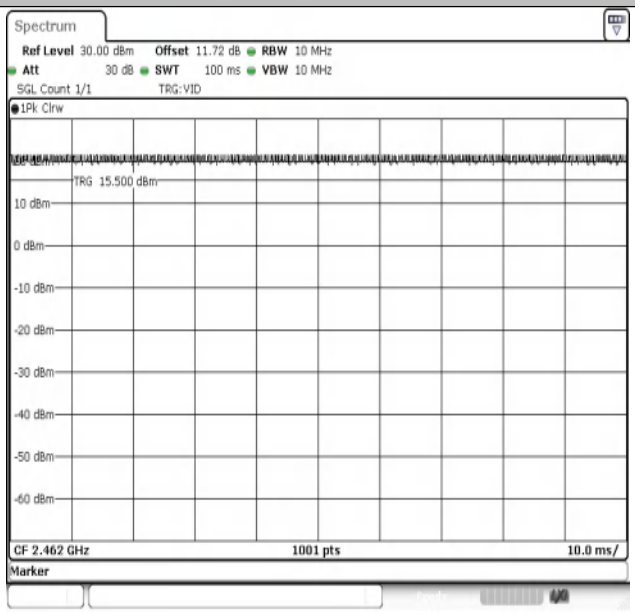

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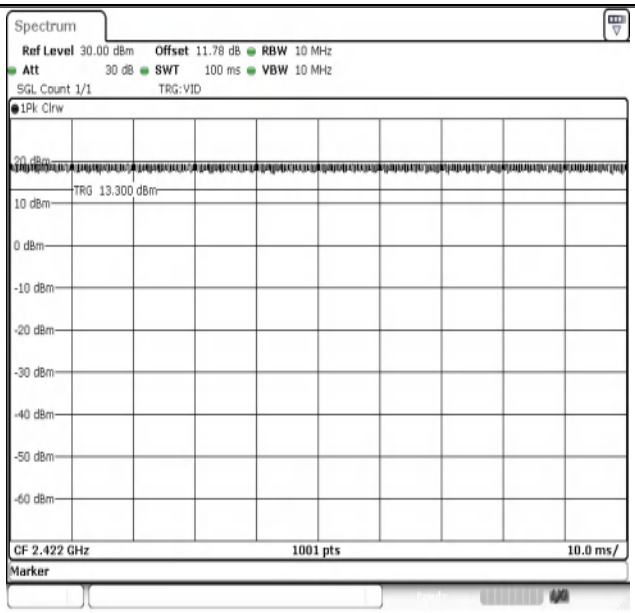

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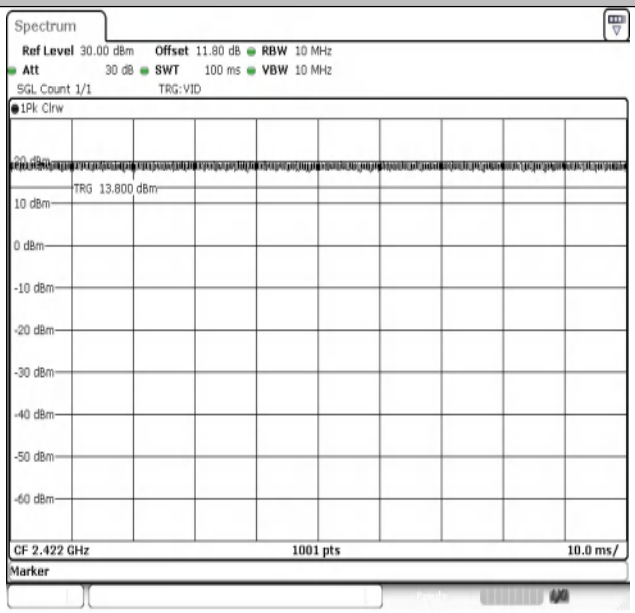

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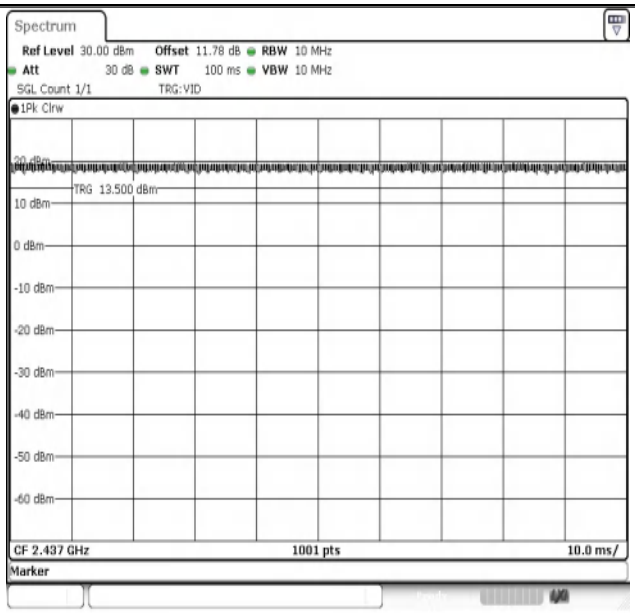

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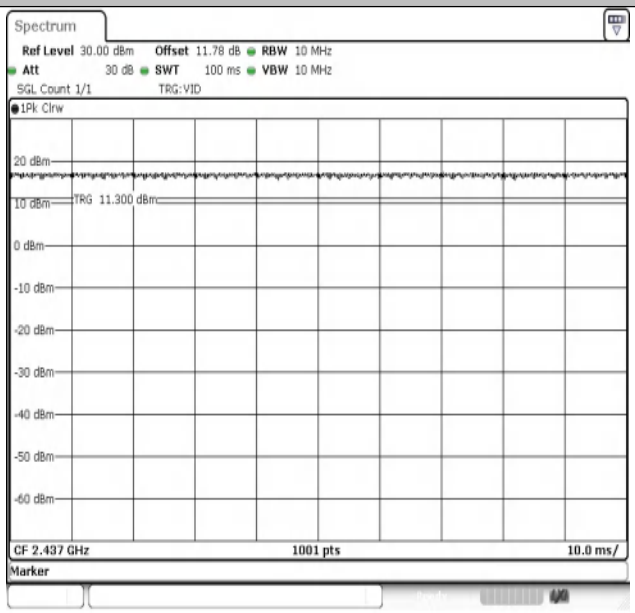

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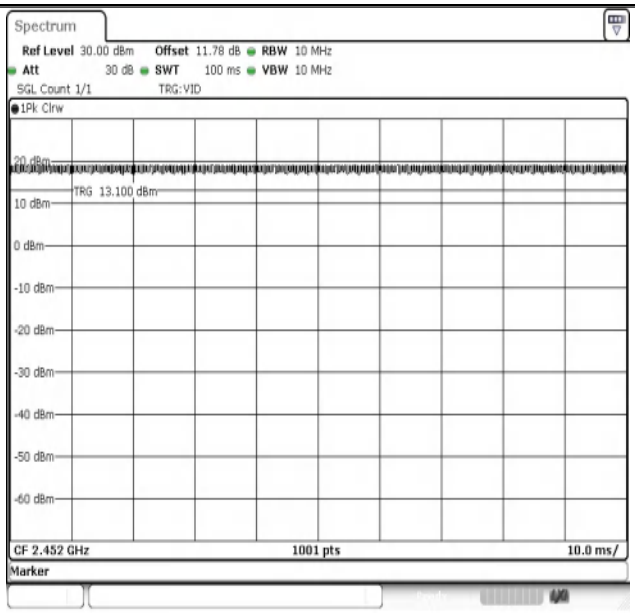

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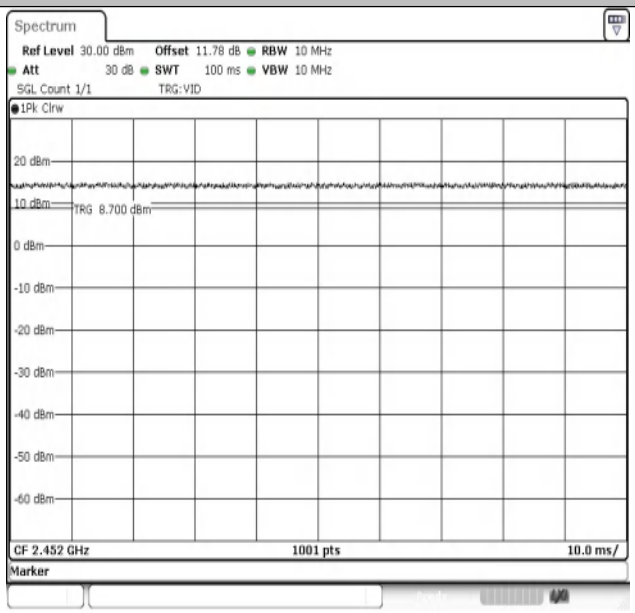

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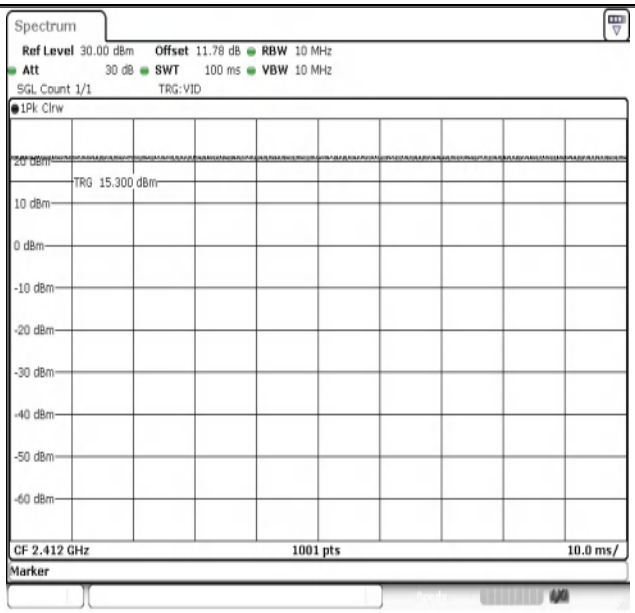

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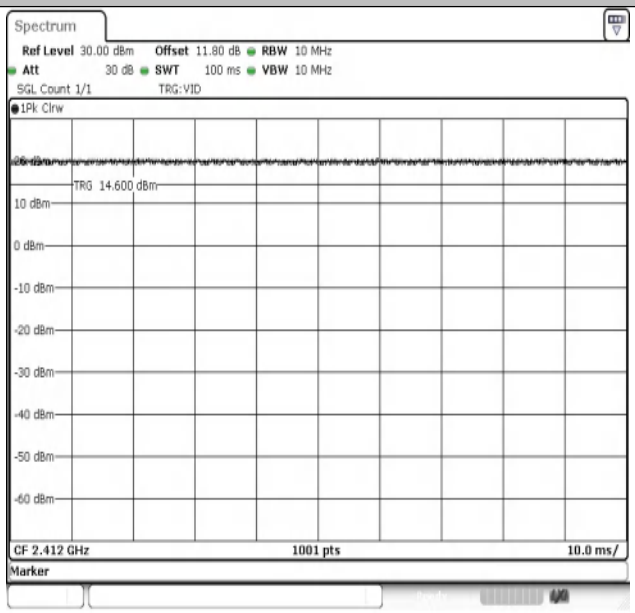

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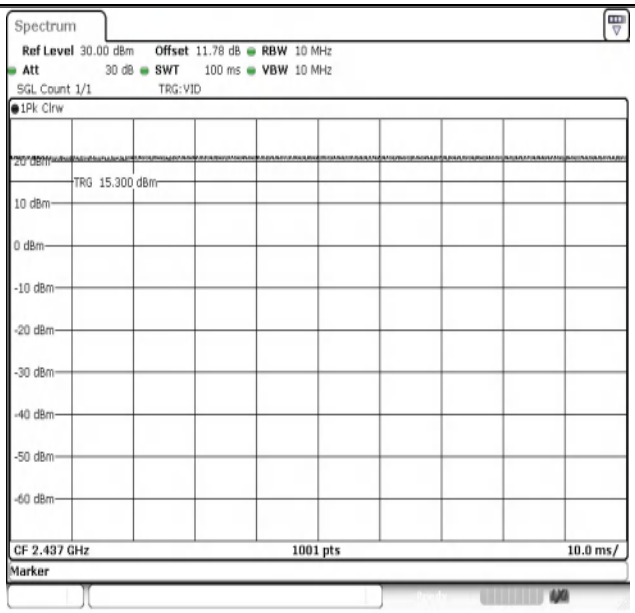

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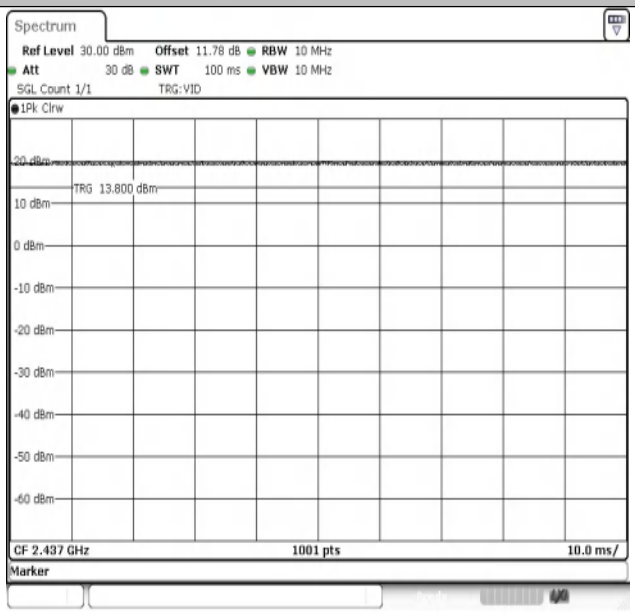

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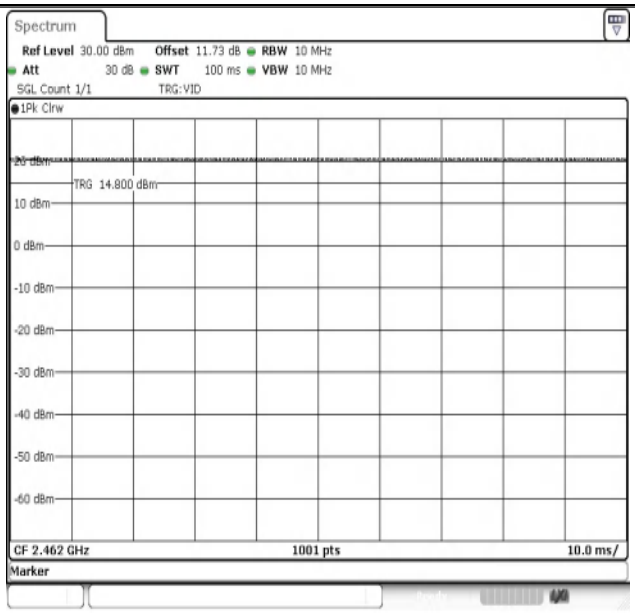

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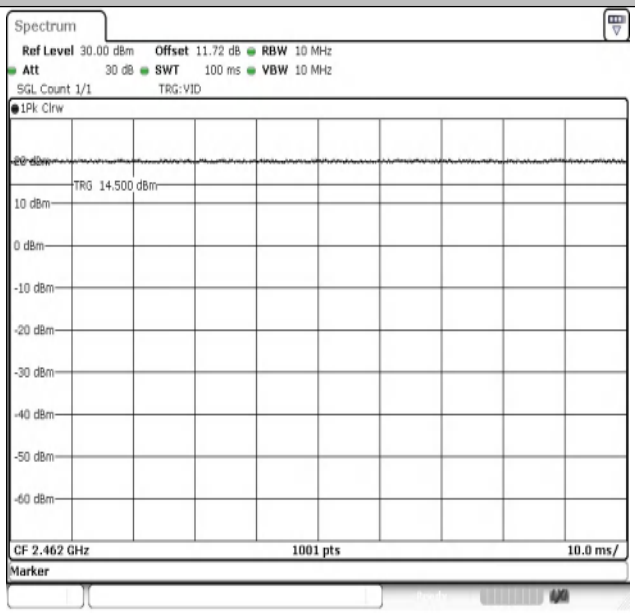

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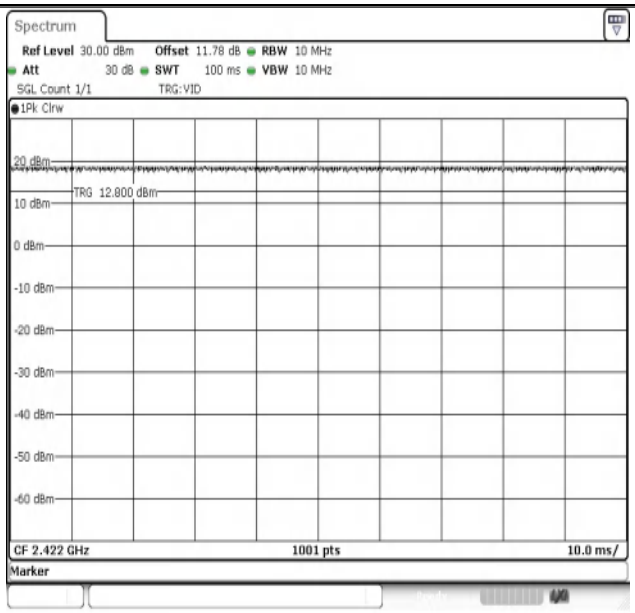

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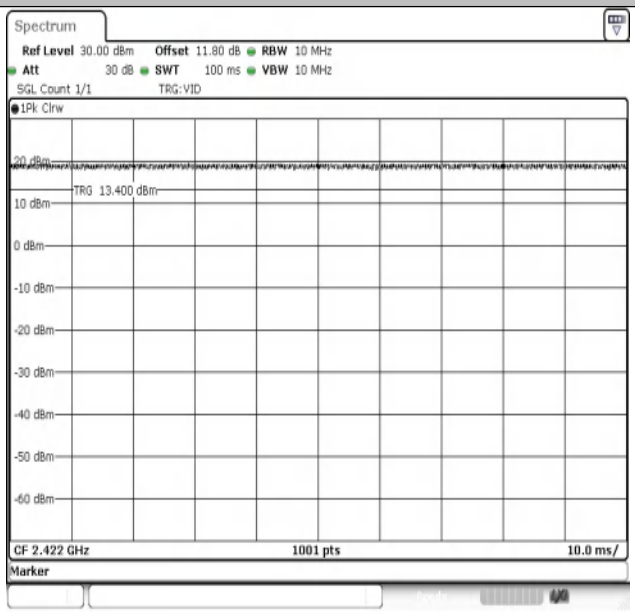

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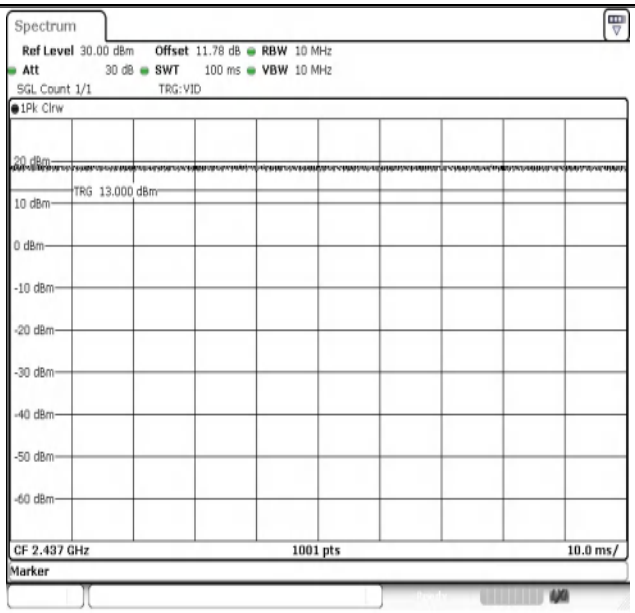

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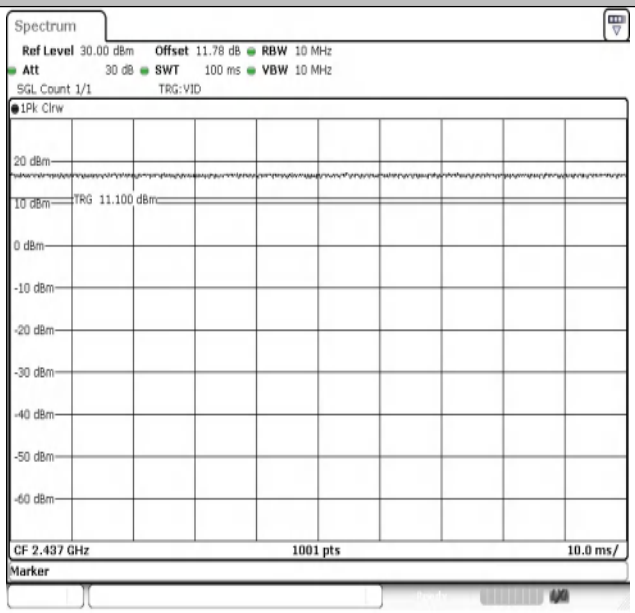

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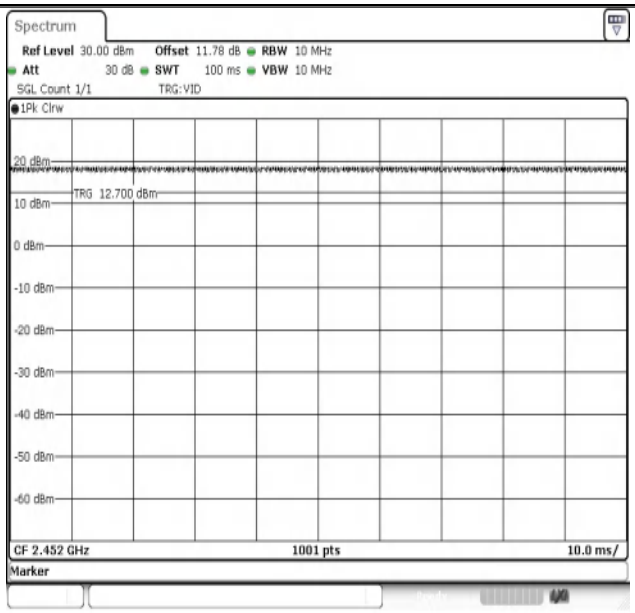

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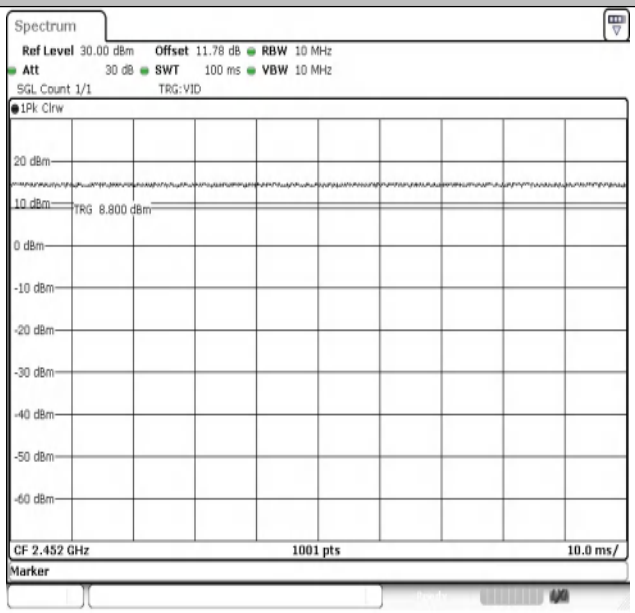

NTNV-11AX40MIMO-Ant2-2452

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