

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Pico Projector
Test Model:	M1S
Sample ID:	202307-0061-2-2#
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	52%
Test Voltage:	DC 7.6V
Test Engineer:	Zhangchenxi
Note: For a more detailed features description, please refer to the report TBR-C-202307-0061-22	

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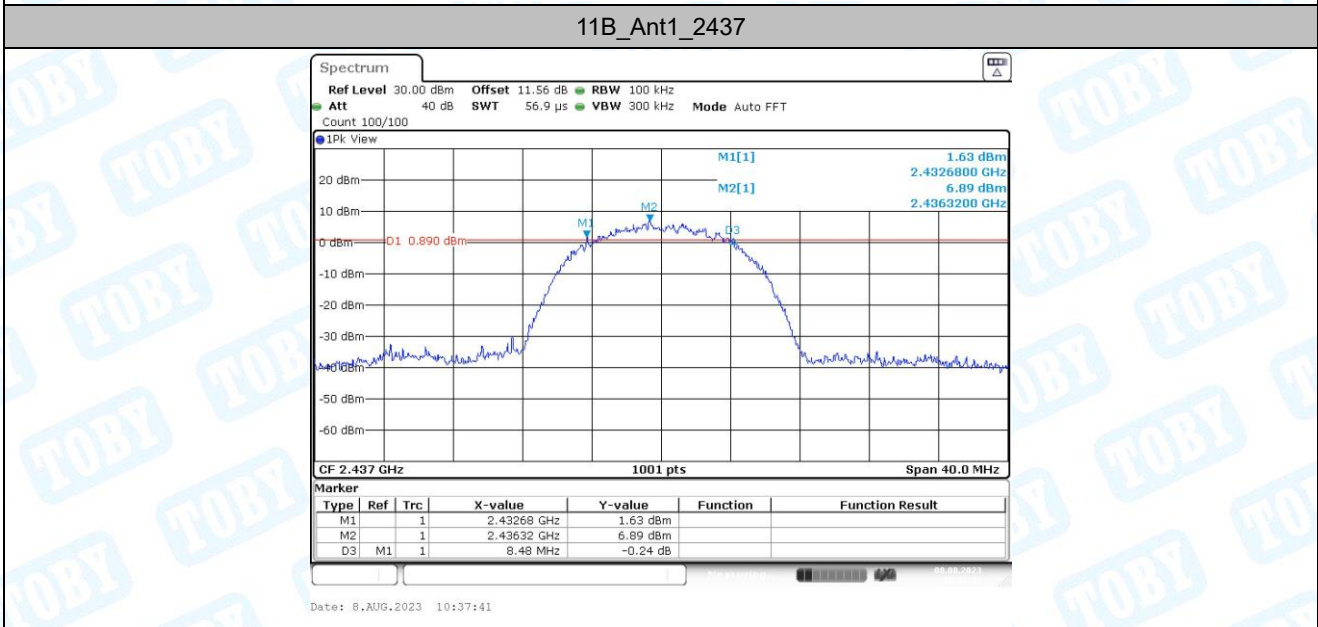
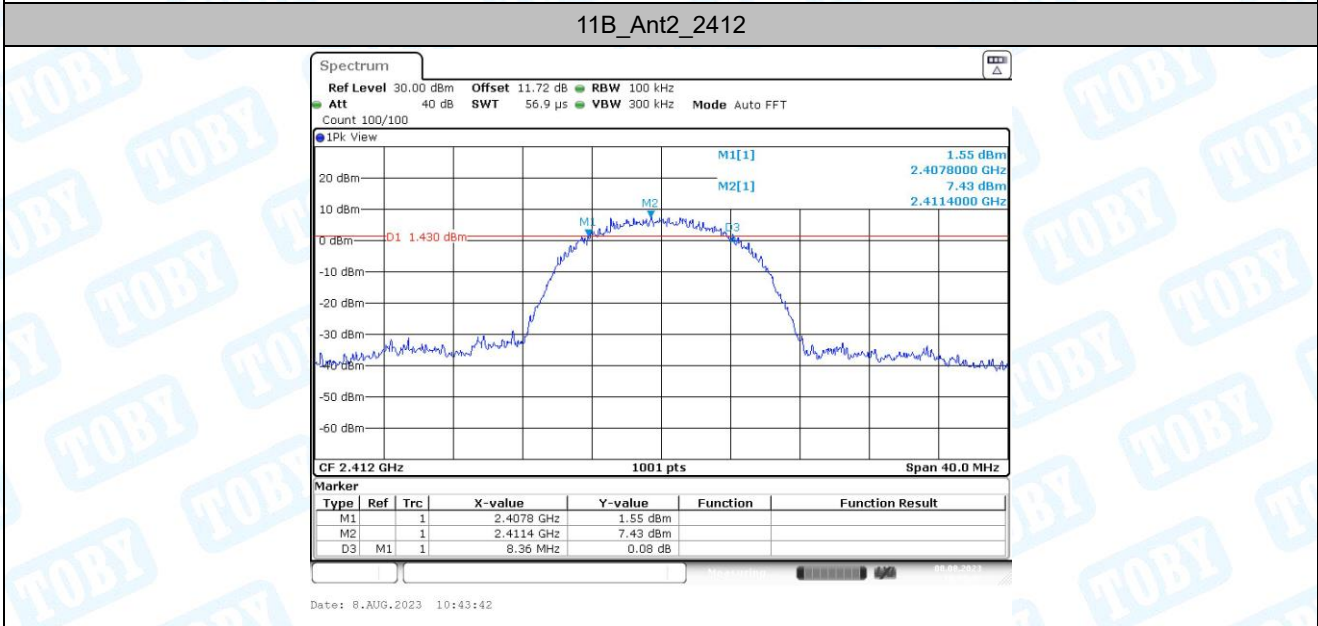
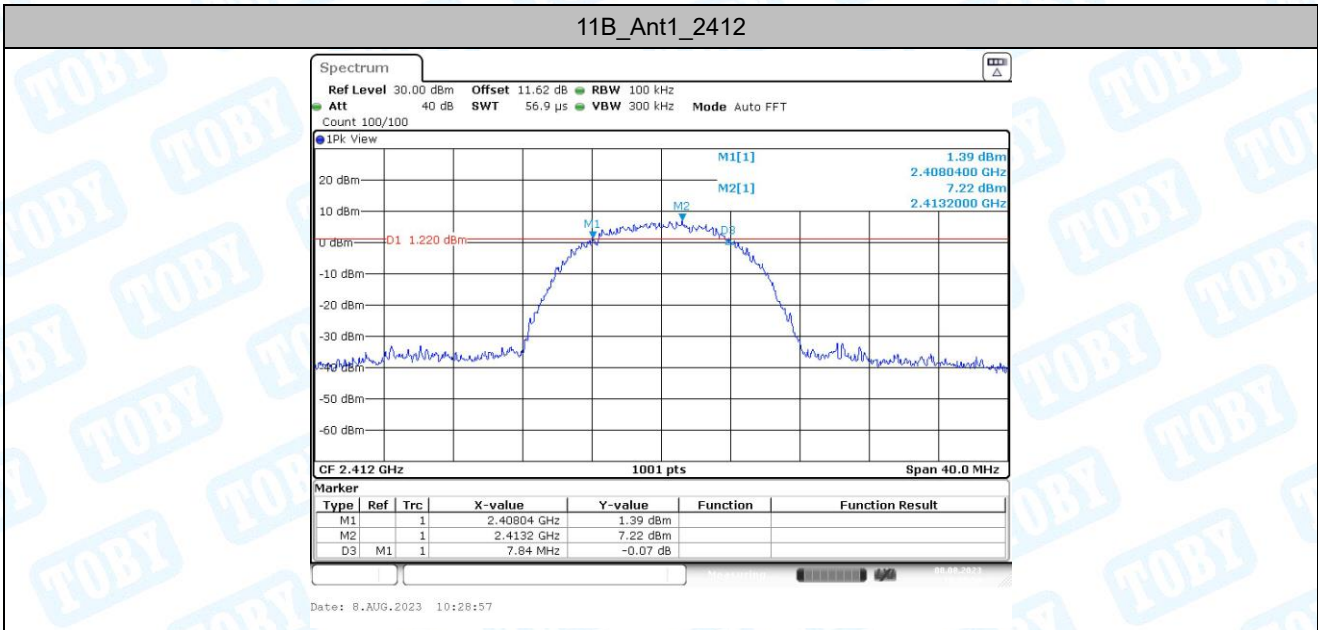
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1. DTS Bandwidth

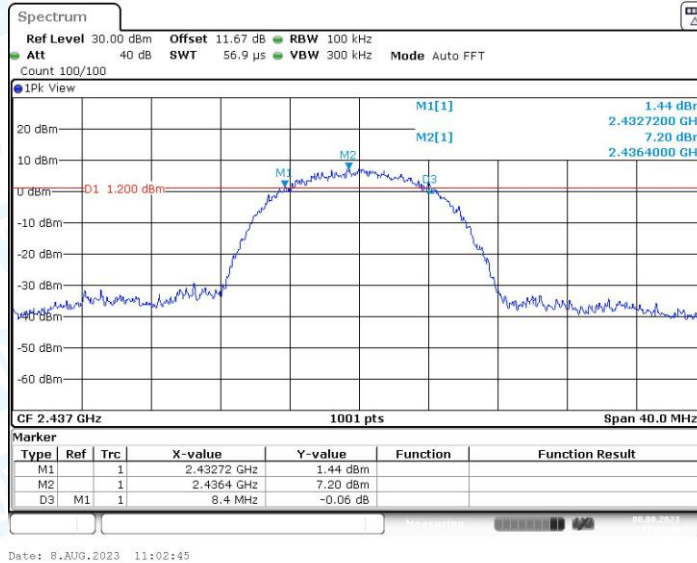
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.84	2408.04	2415.88	0.5	PASS
	Ant2	2412	8.36	2407.80	2416.16	0.5	PASS
	Ant1	2437	8.48	2432.68	2441.16	0.5	PASS
	Ant2	2437	8.40	2432.72	2441.12	0.5	PASS
	Ant1	2462	7.80	2458.04	2465.84	0.5	PASS
	Ant2	2462	8.20	2457.84	2466.04	0.5	PASS
11G-CDD	Ant1	2412	16.36	2403.76	2420.12	0.5	PASS
	Ant2	2412	16.36	2403.76	2420.12	0.5	PASS
	Ant1	2437	16.40	2428.76	2445.16	0.5	PASS
	Ant2	2437	16.40	2428.76	2445.16	0.5	PASS
	Ant1	2462	16.36	2453.76	2470.12	0.5	PASS
	Ant2	2462	16.40	2453.76	2470.16	0.5	PASS
11N20MIMO	Ant1	2412	17.68	2403.12	2420.80	0.5	PASS
	Ant2	2412	17.68	2403.12	2420.80	0.5	PASS
	Ant1	2437	17.76	2428.08	2445.84	0.5	PASS
	Ant2	2437	17.72	2428.08	2445.80	0.5	PASS
	Ant1	2462	17.72	2453.08	2470.80	0.5	PASS
	Ant2	2462	17.68	2453.12	2470.80	0.5	PASS

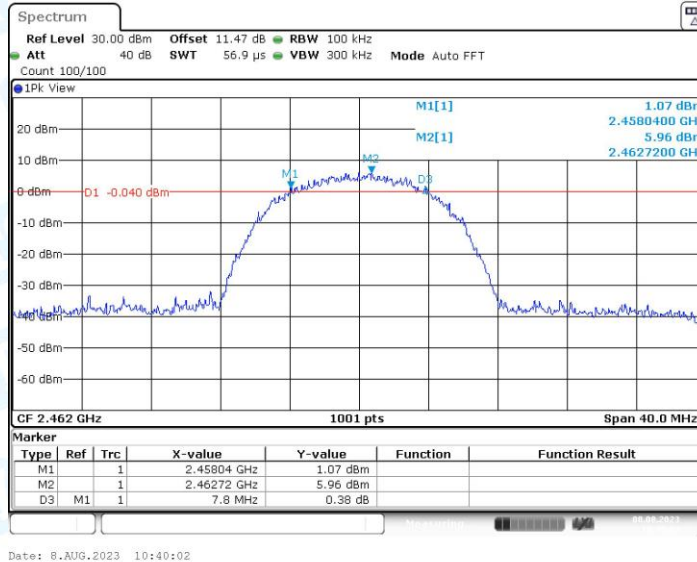
1.2. Test Graphs



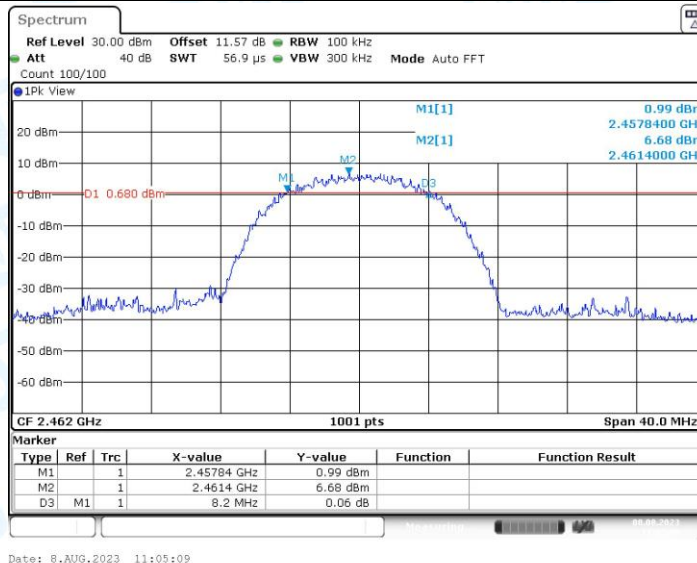
11B_Ant2_2437



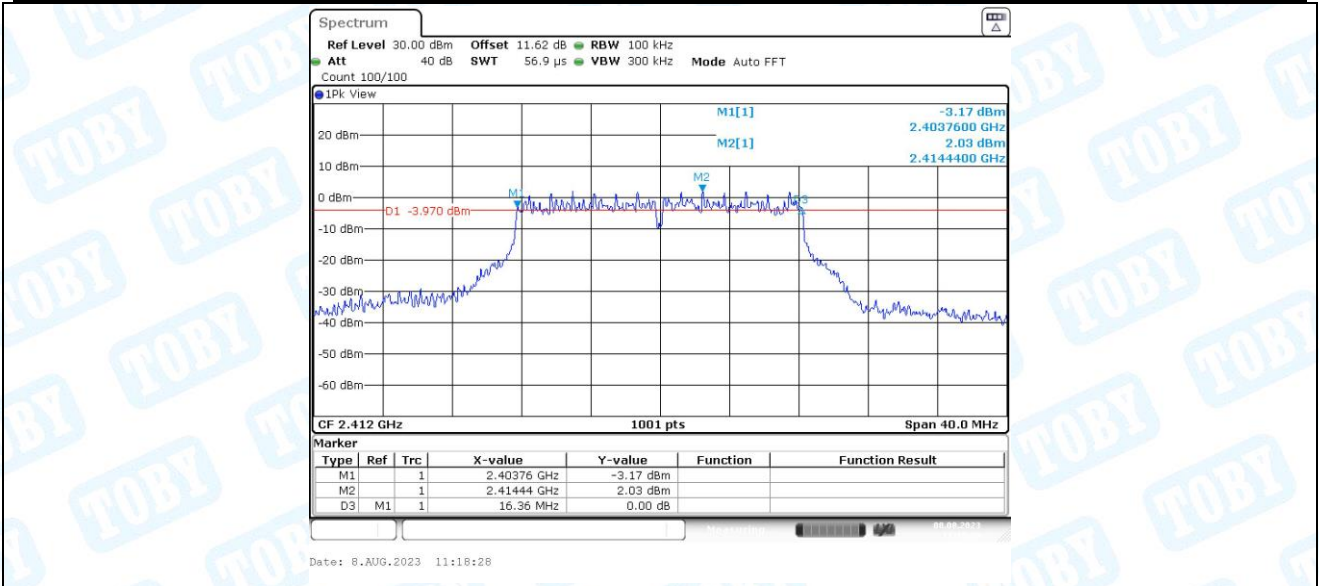
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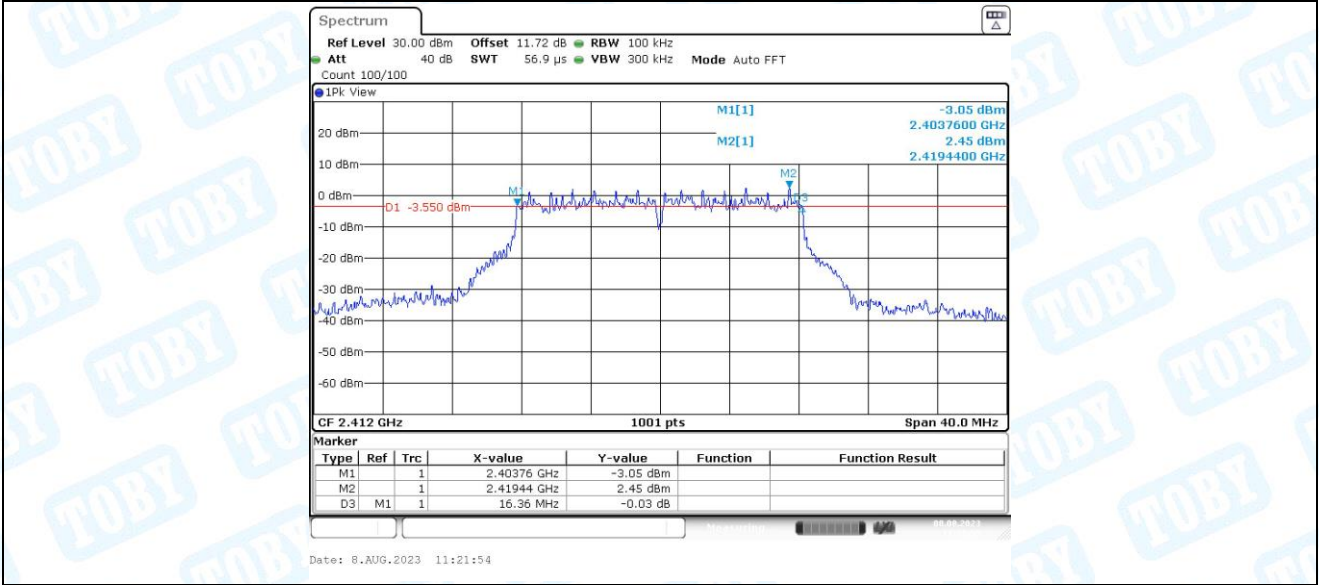
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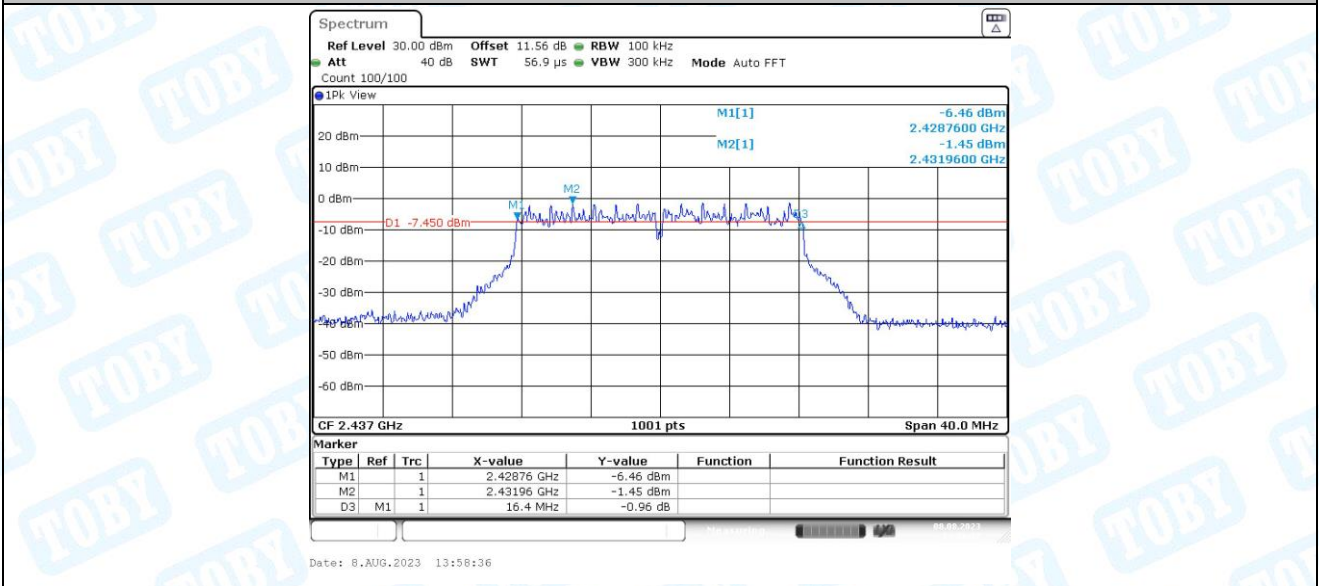
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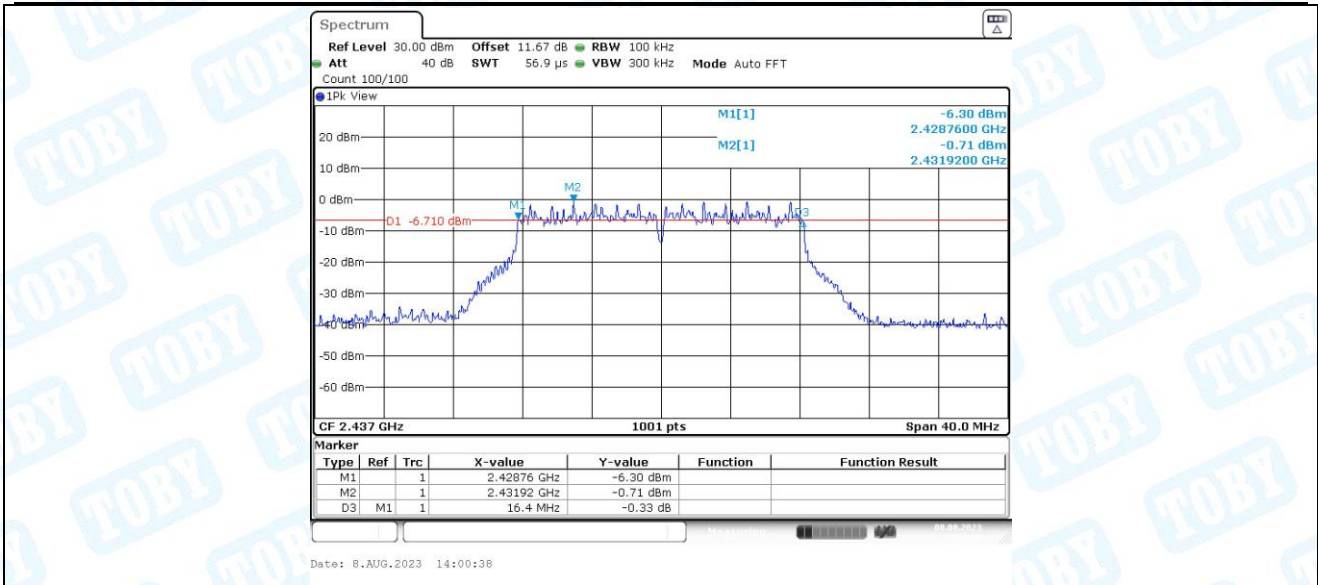
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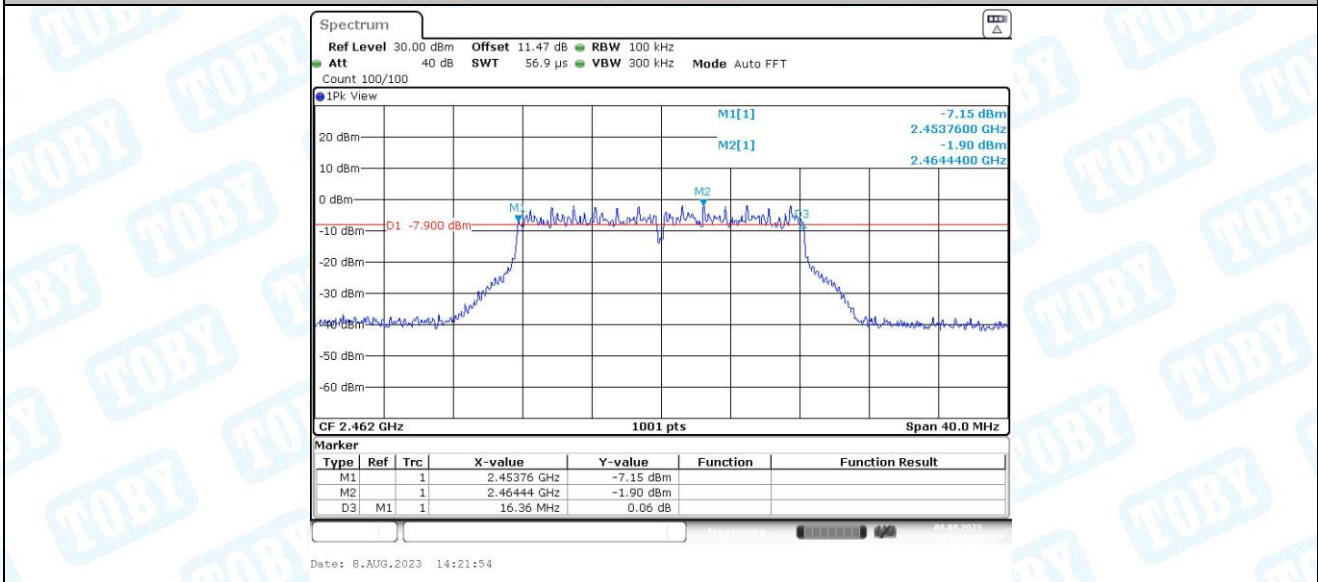
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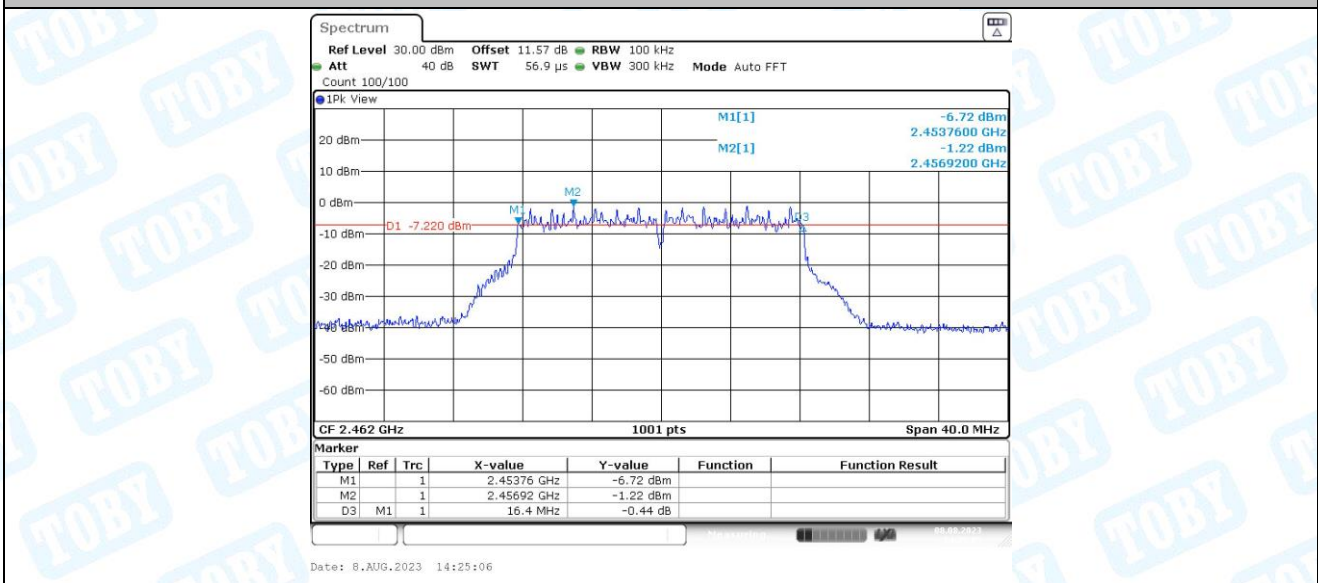
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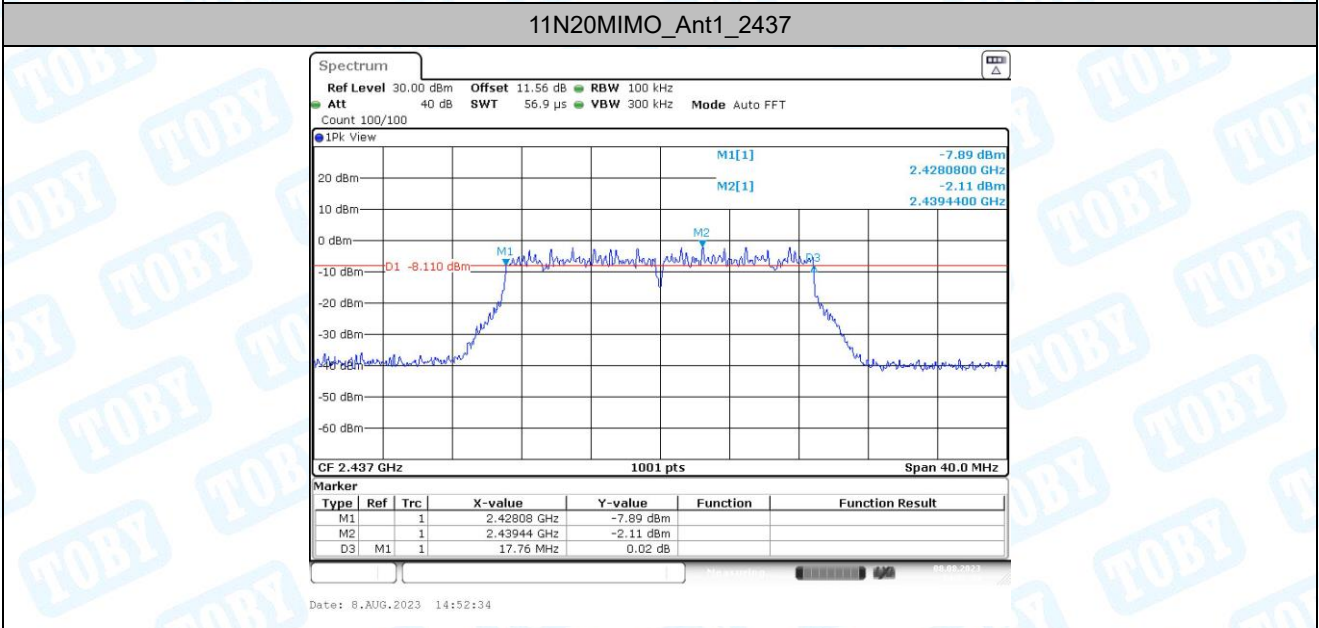
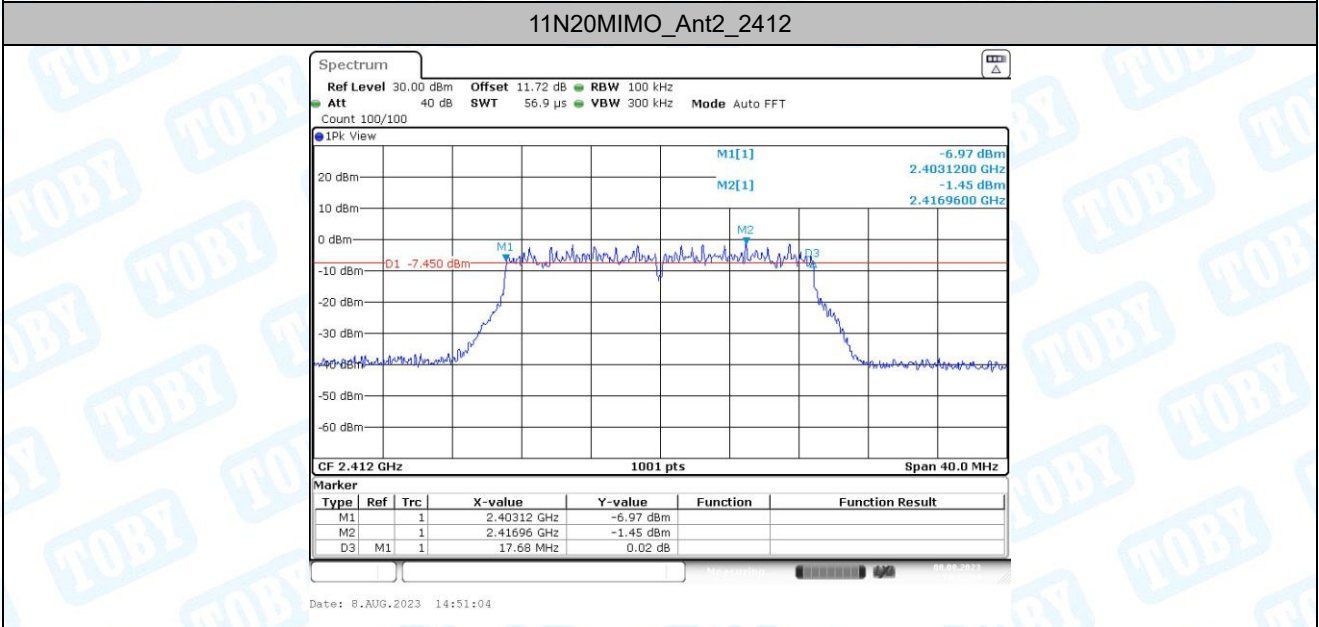
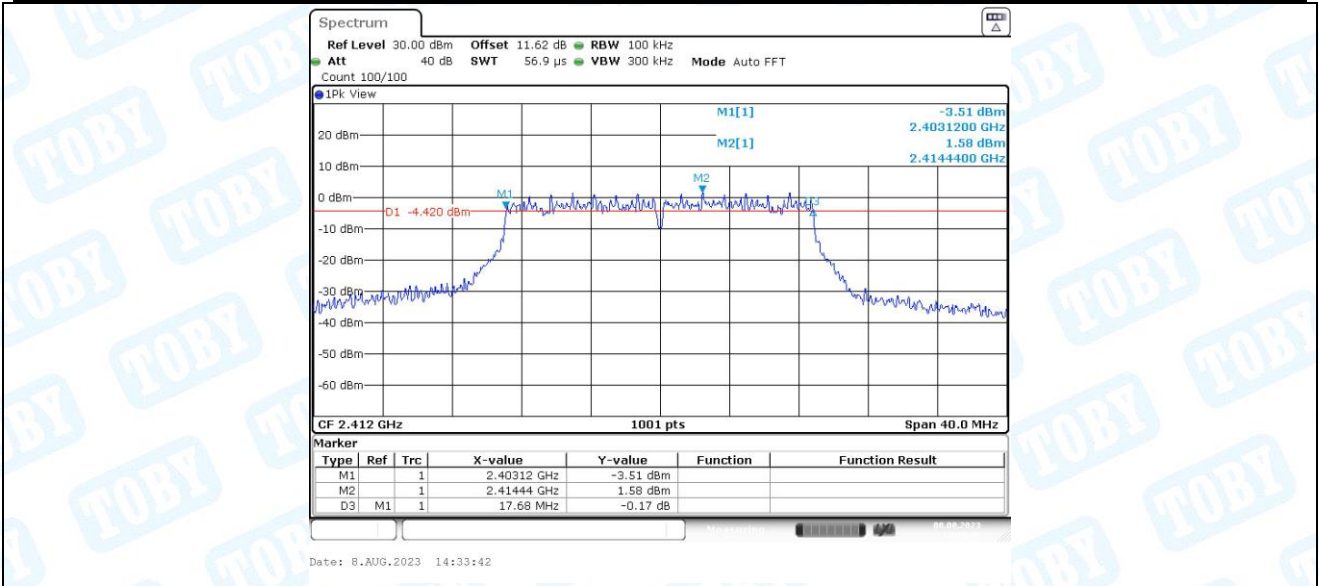
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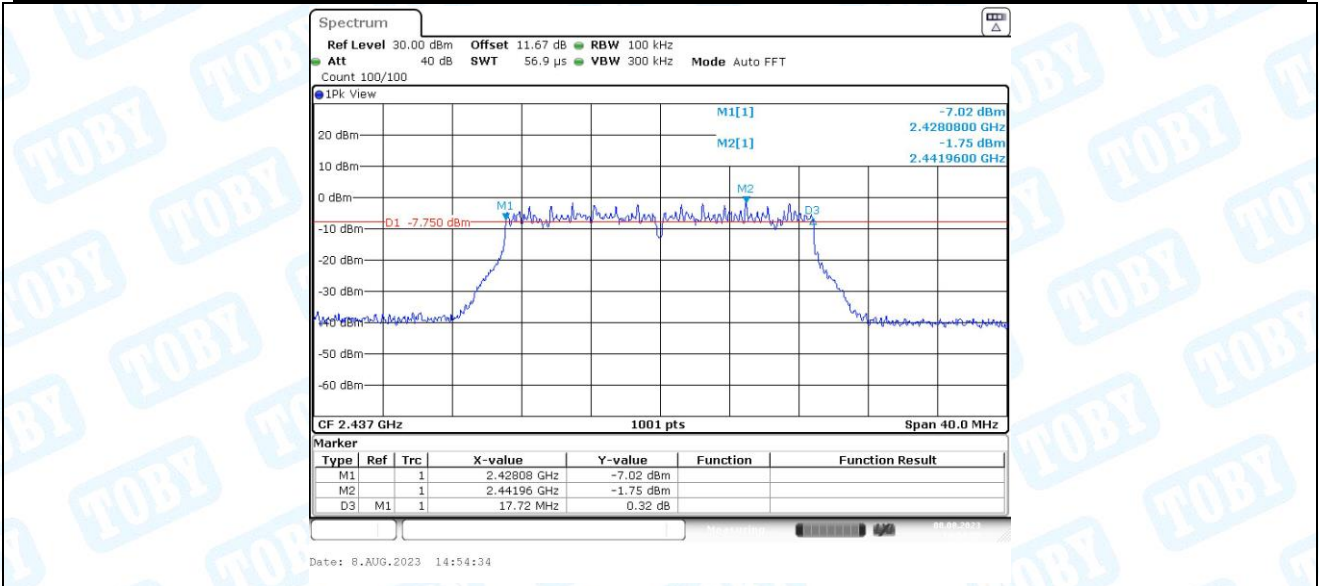
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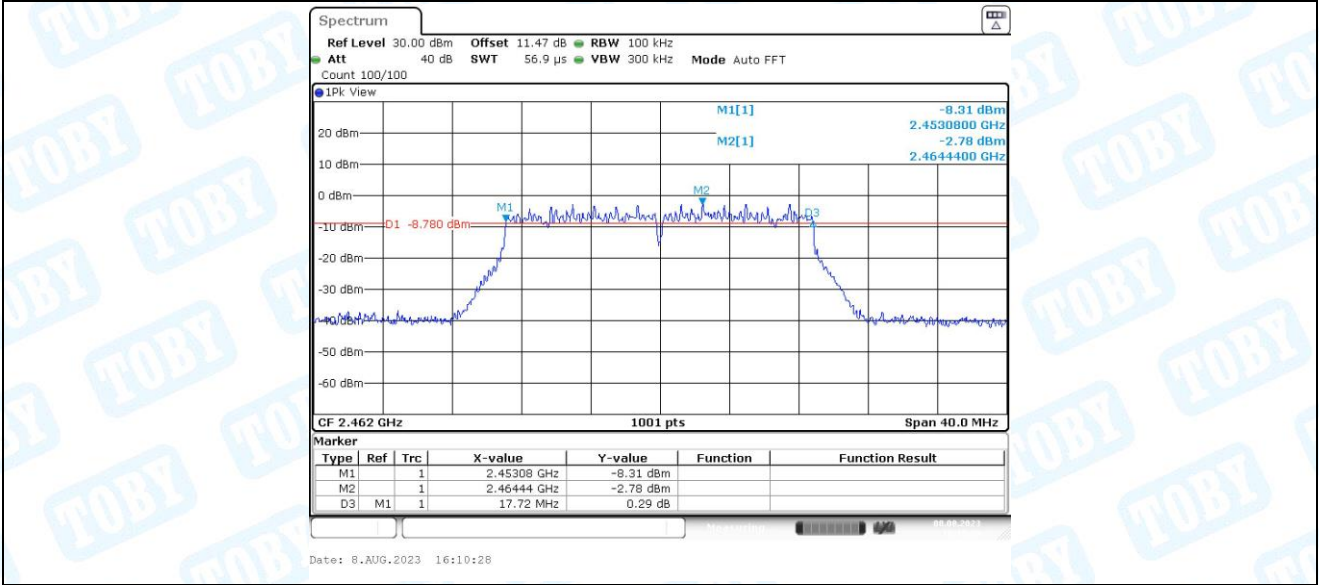
11N20MIMO_Ant1_2412



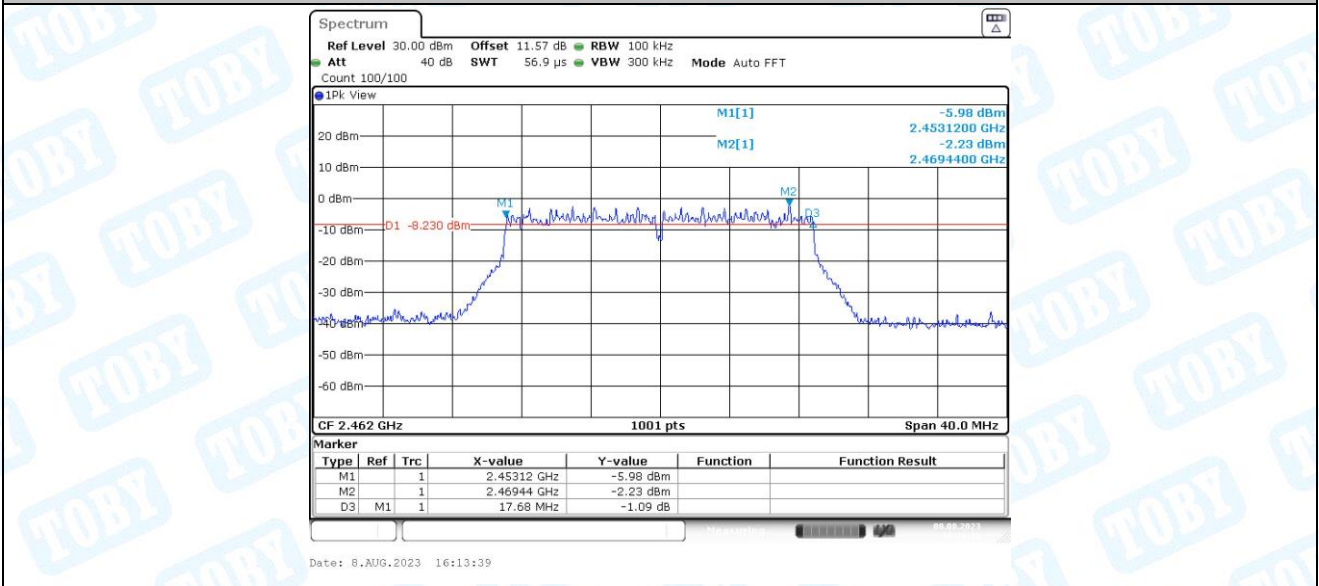
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11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462

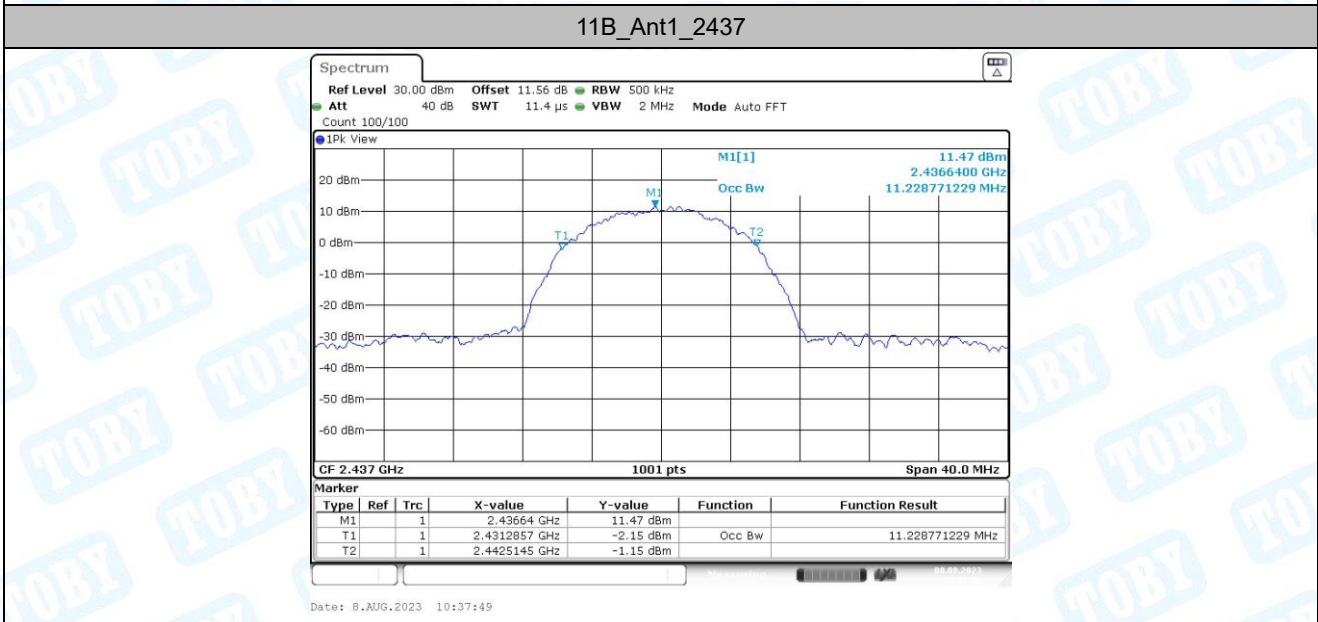
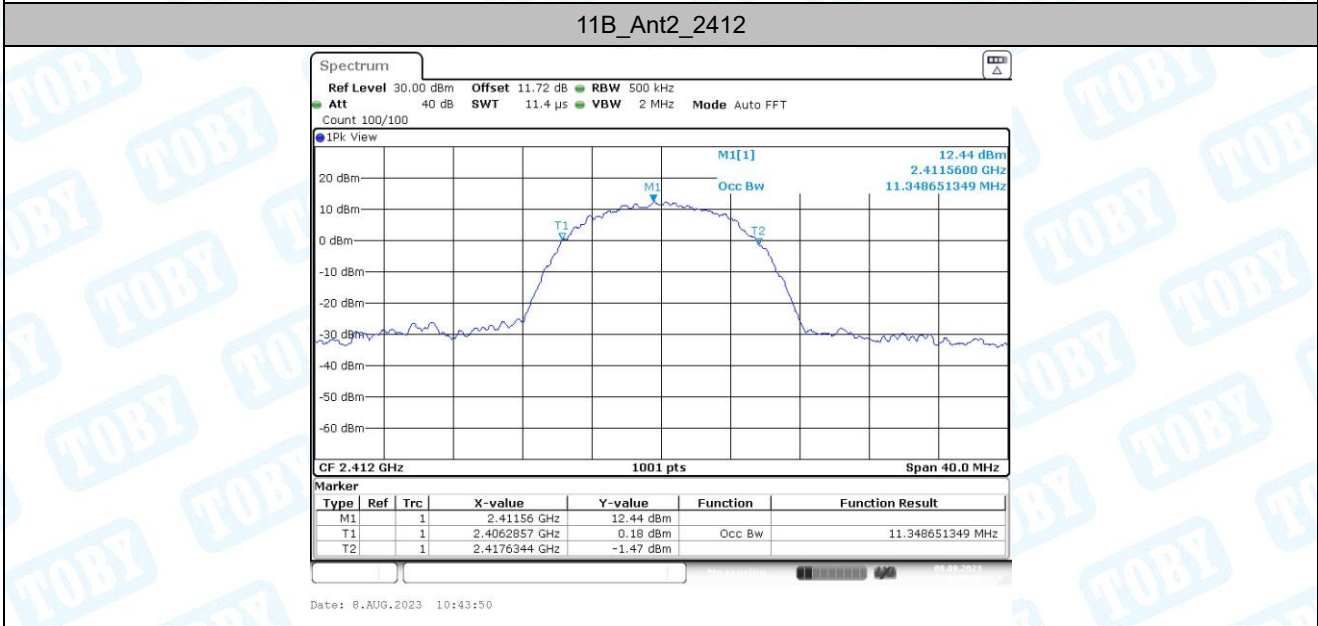
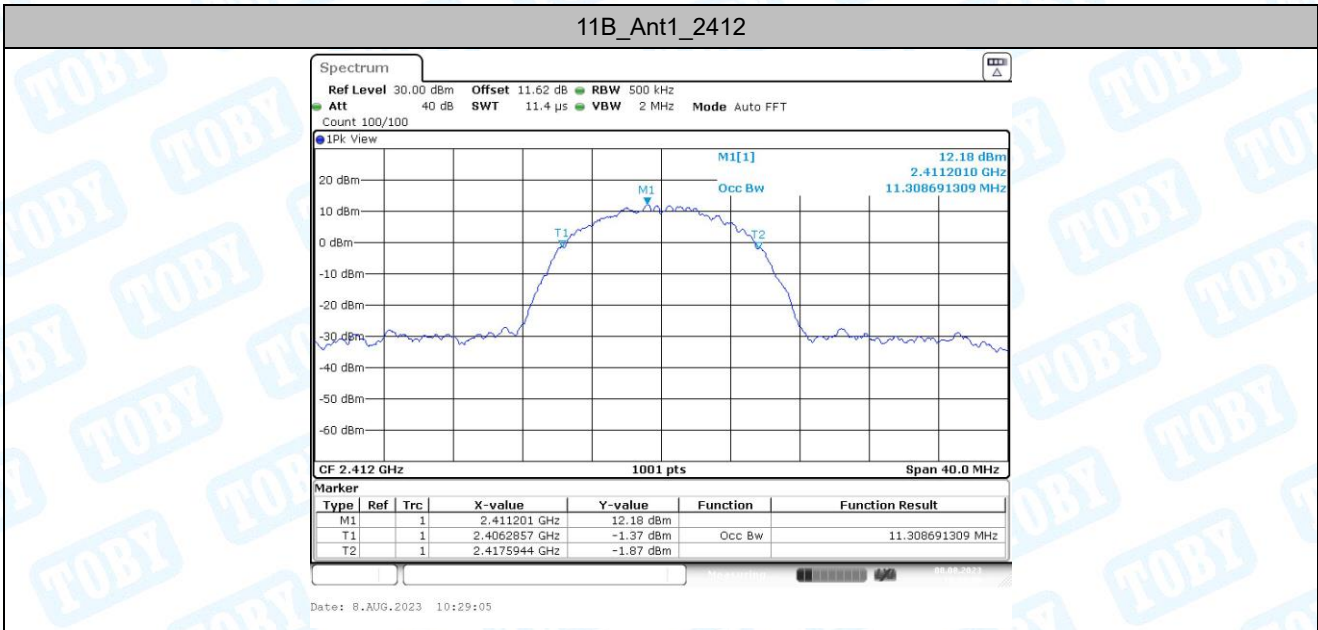


2. Occupied Channel Bandwidth

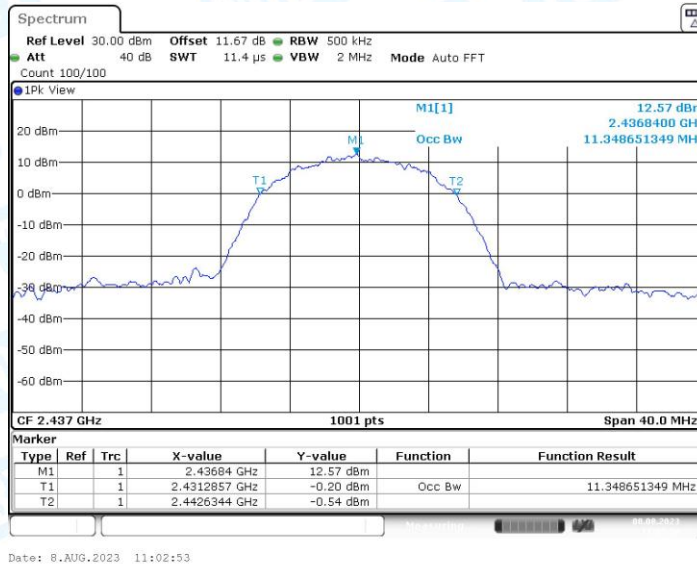
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.309	2406.2857	2417.5944	---	---
	Ant2	2412	11.349	2406.2857	2417.6344	---	---
	Ant1	2437	11.229	2431.2857	2442.5145	---	---
	Ant2	2437	11.349	2431.2857	2442.6344	---	---
	Ant1	2462	11.269	2456.3656	2467.6344	---	---
	Ant2	2462	11.389	2456.2458	2467.6344	---	---
11G-CDD	Ant1	2412	17.063	2403.4086	2420.4715	---	---
	Ant2	2412	17.383	2403.2088	2420.5914	---	---
	Ant1	2437	17.063	2428.5285	2445.5914	---	---
	Ant2	2437	17.263	2428.2887	2445.5514	---	---
	Ant1	2462	16.943	2453.4486	2470.3916	---	---
	Ant2	2462	17.103	2453.2488	2470.3516	---	---
11N20MIMO	Ant1	2412	18.422	2402.6893	2421.1109	---	---
	Ant2	2412	18.262	2402.7293	2420.9910	---	---
	Ant1	2437	18.541	2427.8891	2446.4306	---	---
	Ant2	2437	18.382	2427.8092	2446.1908	---	---
	Ant1	2462	18.462	2452.8492	2471.3107	---	---
	Ant2	2462	18.222	2452.8891	2471.1109	---	---
11N40MIMO	Ant1	2422	79.281	2382.3596	2461.6404	---	---

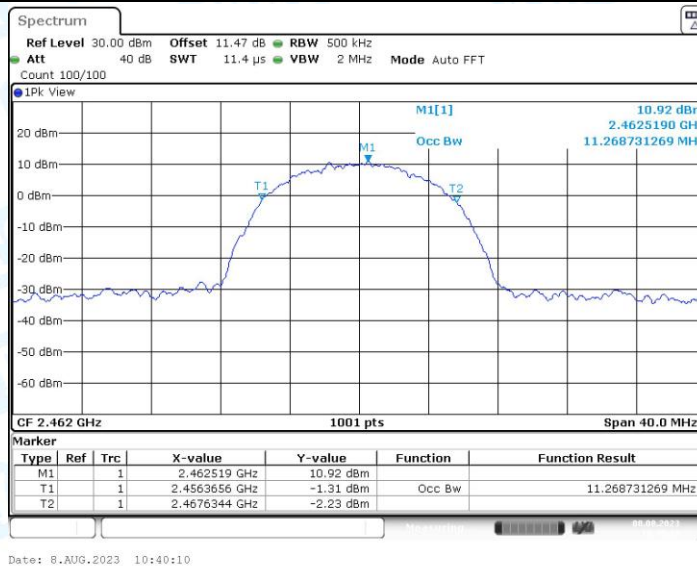
2.2. Test Graphs



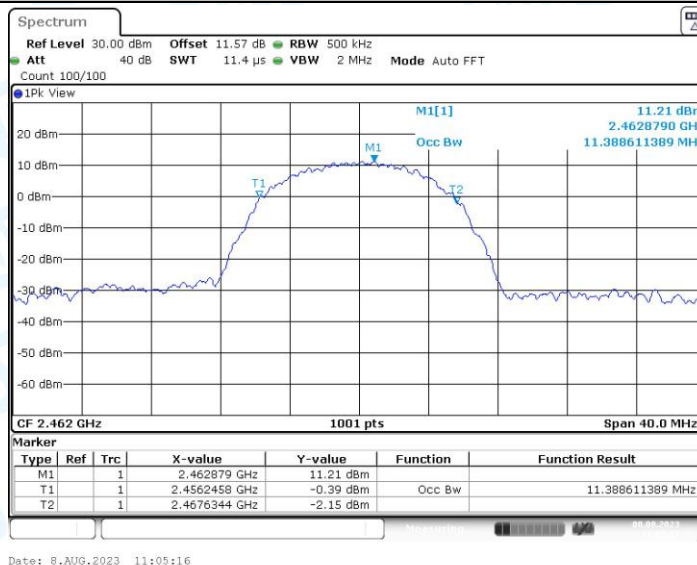
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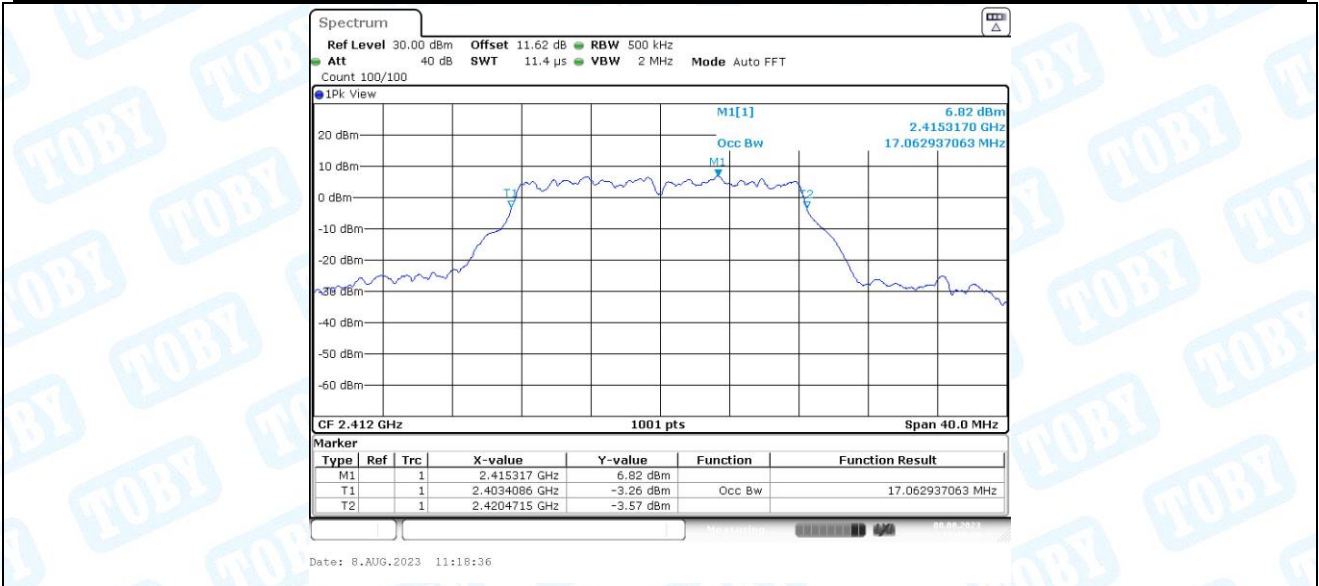
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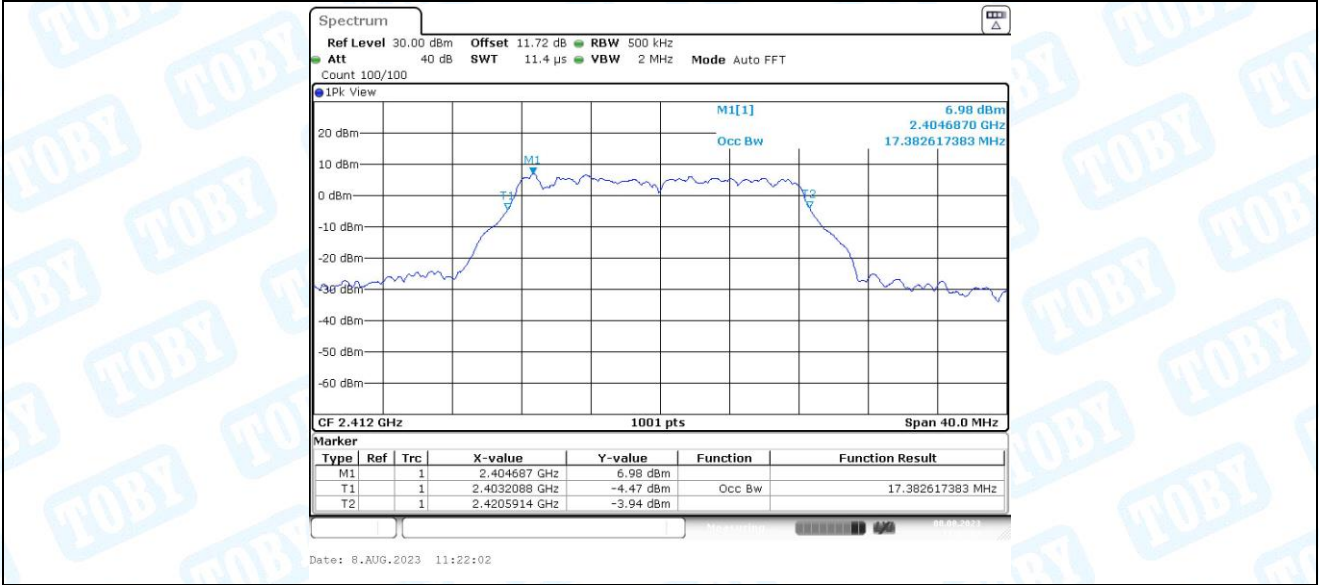
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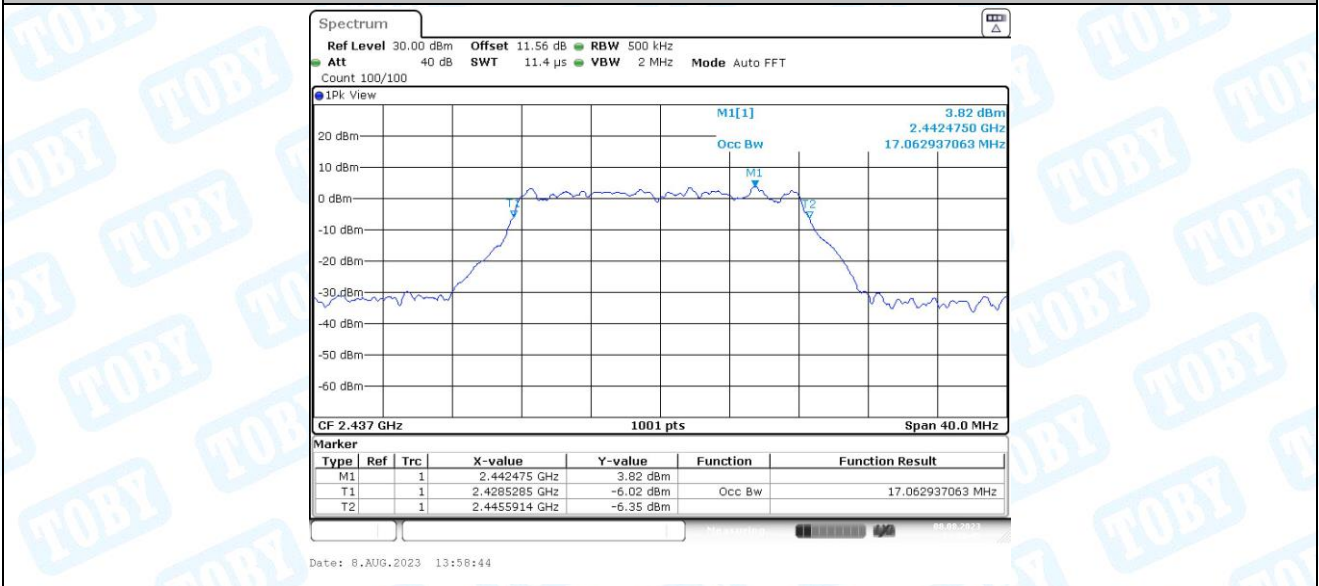
11G-CDD_Ant1_2412



11G-CDD_Ant2_2412



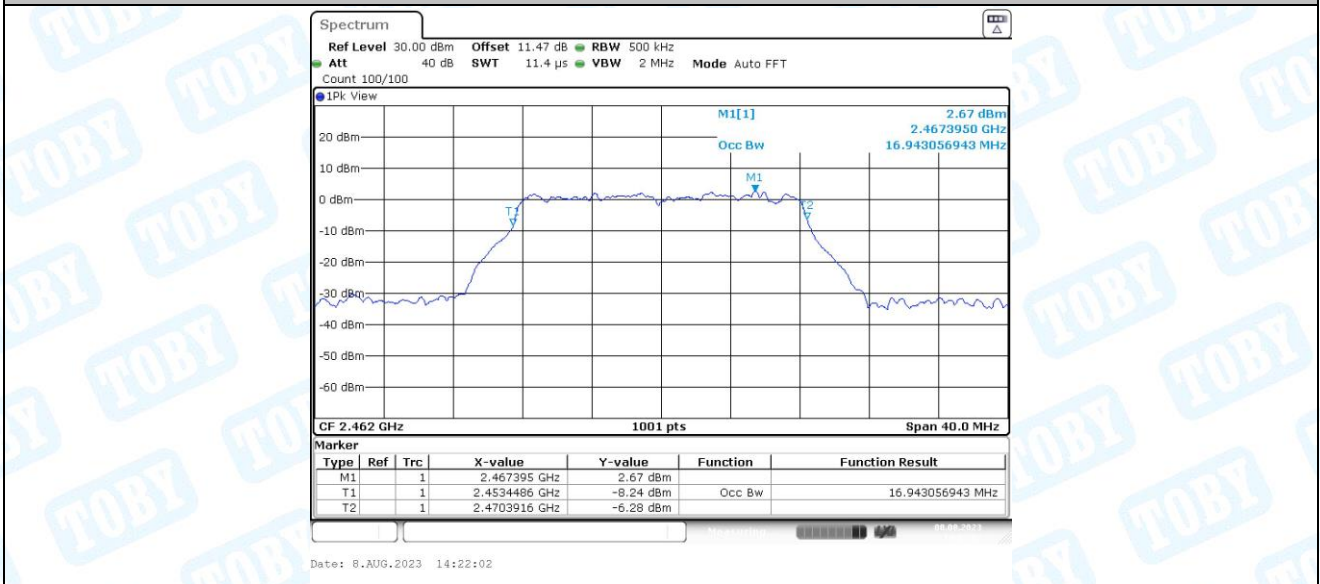
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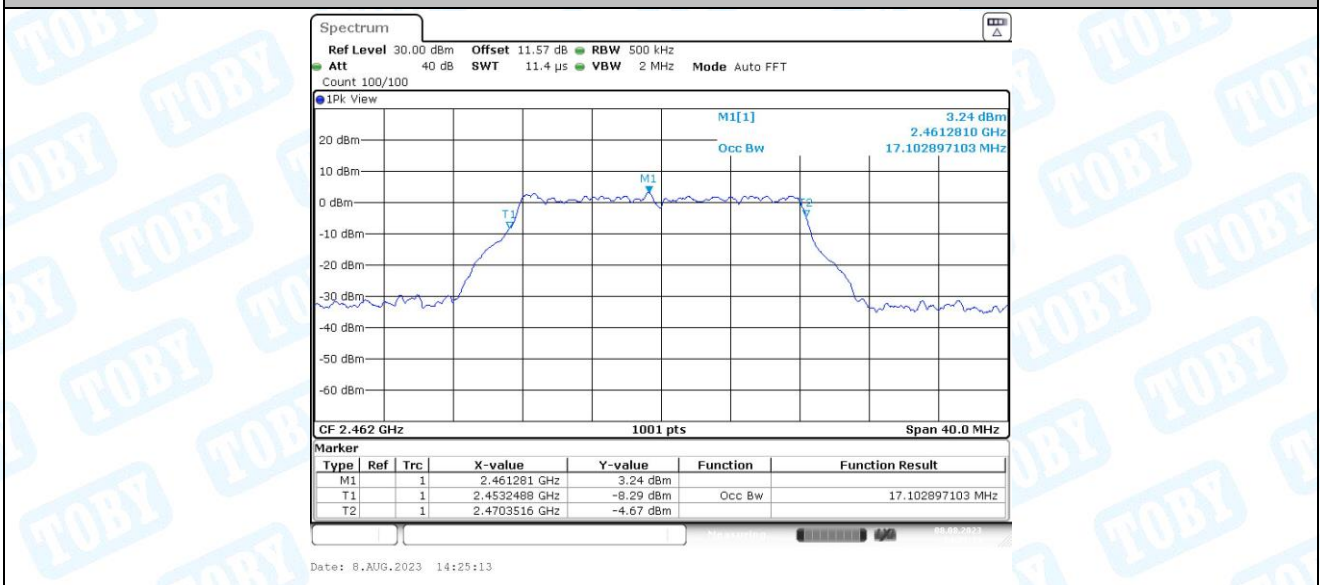
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11G-CDD_Ant1_2462



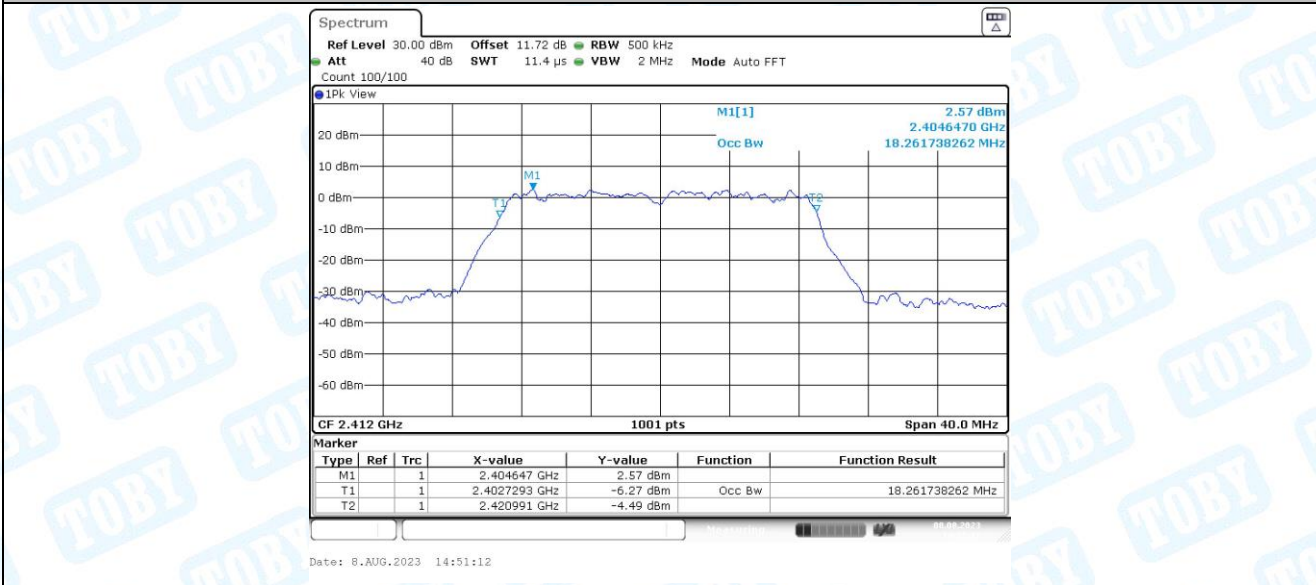
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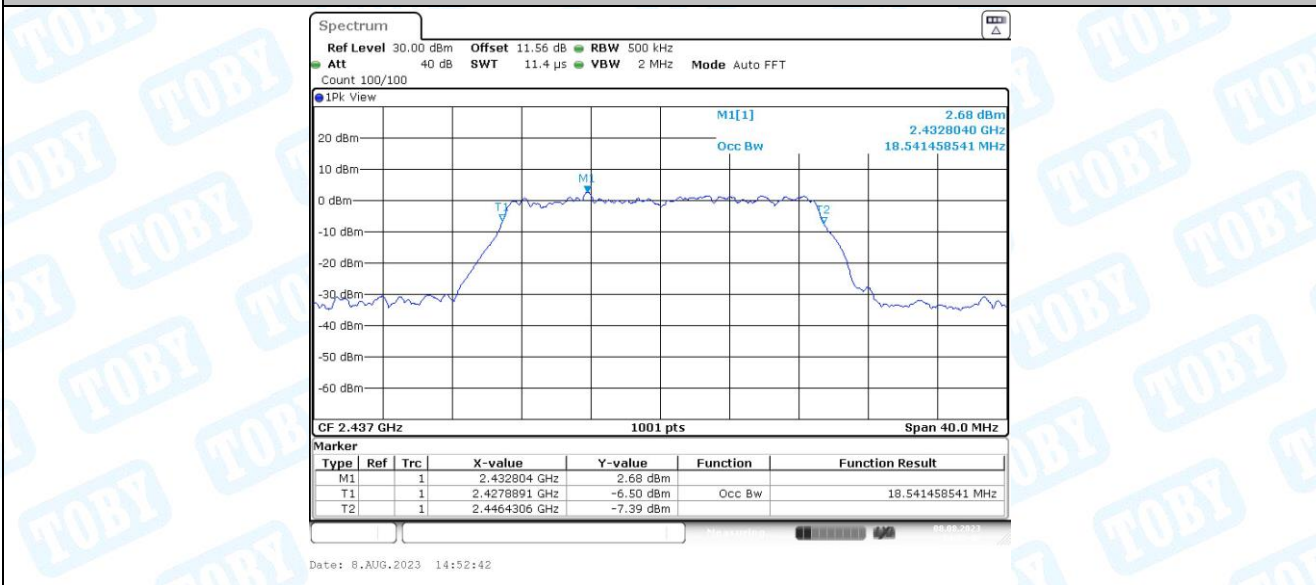
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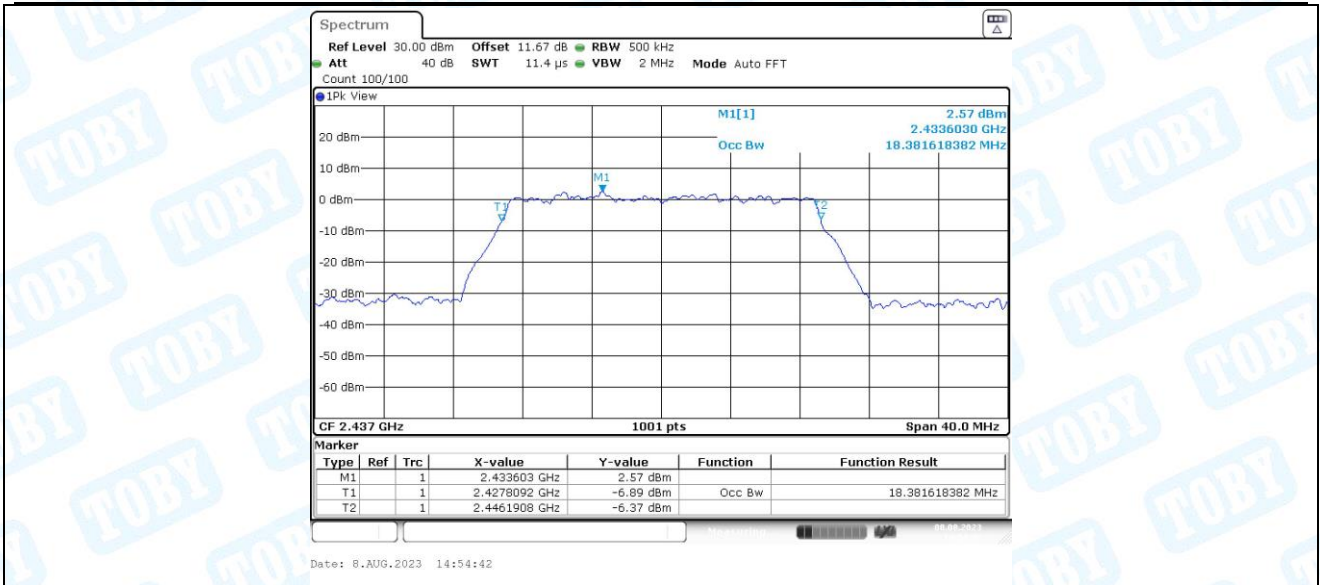
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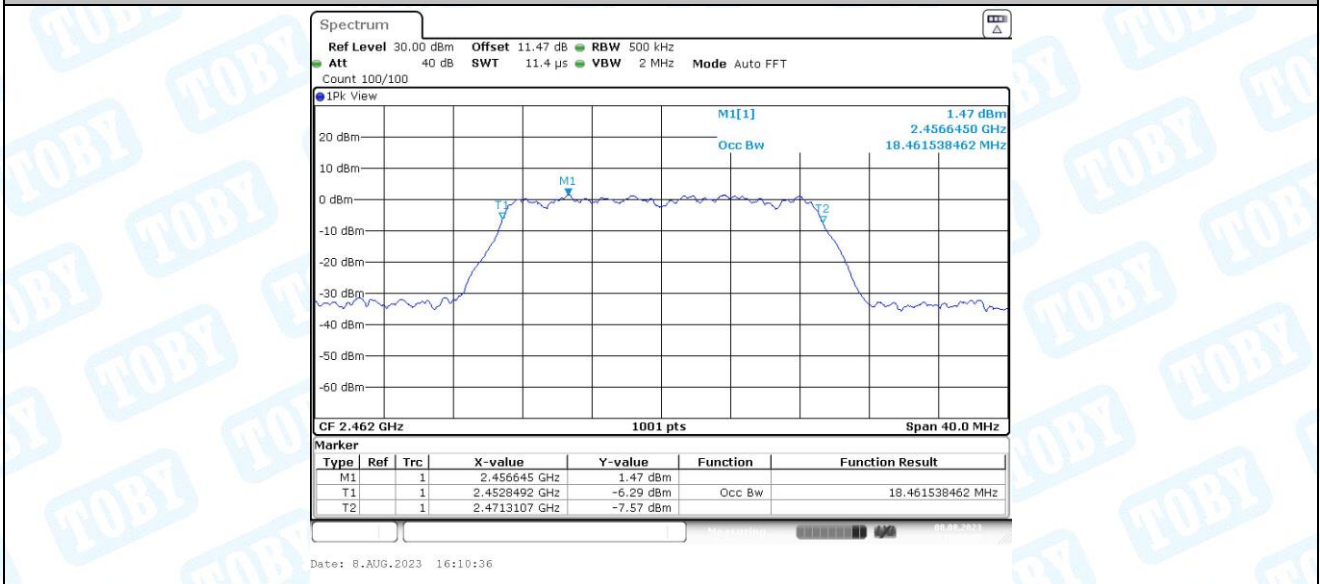
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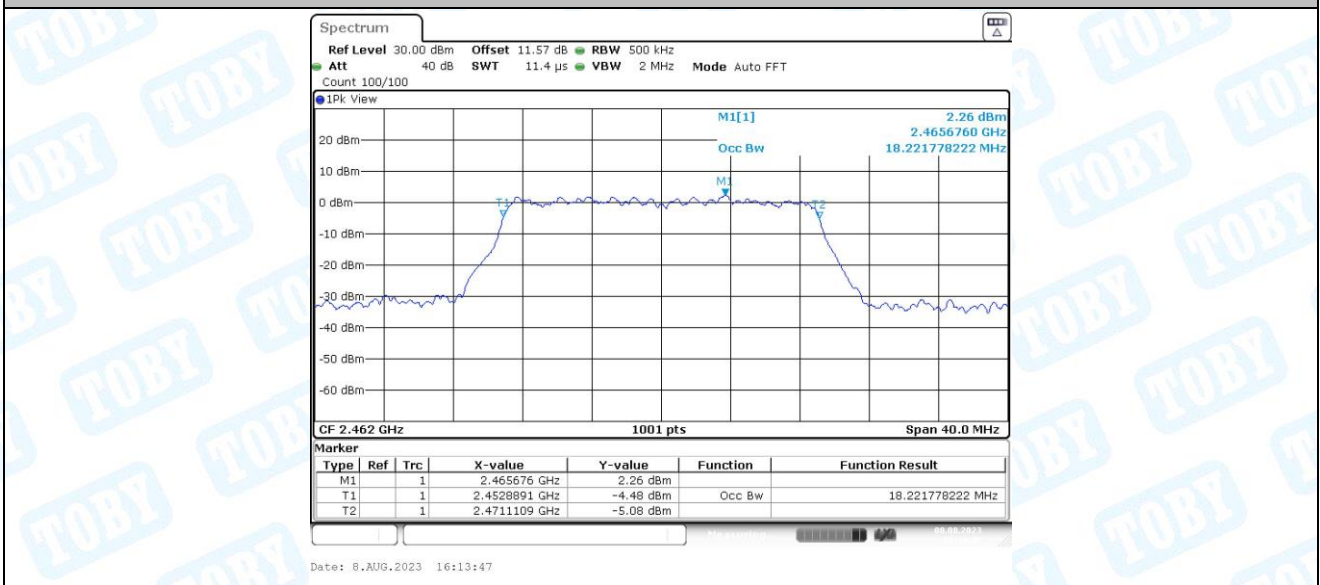
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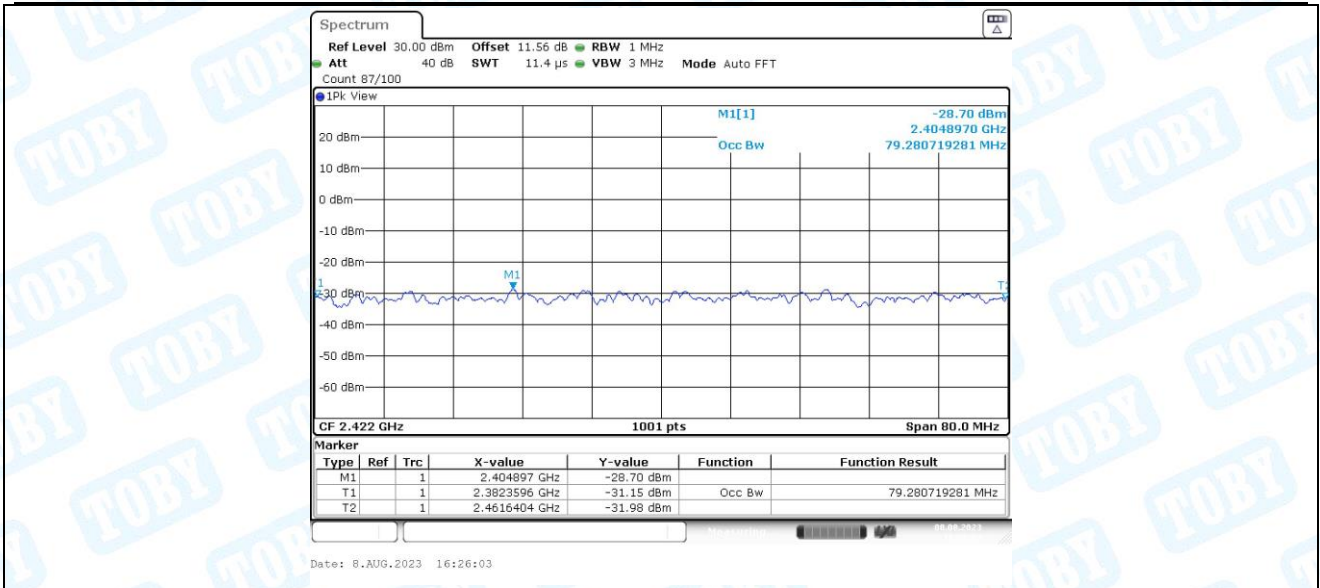
11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



3. Maximum conducted output power

3.1. Test Result

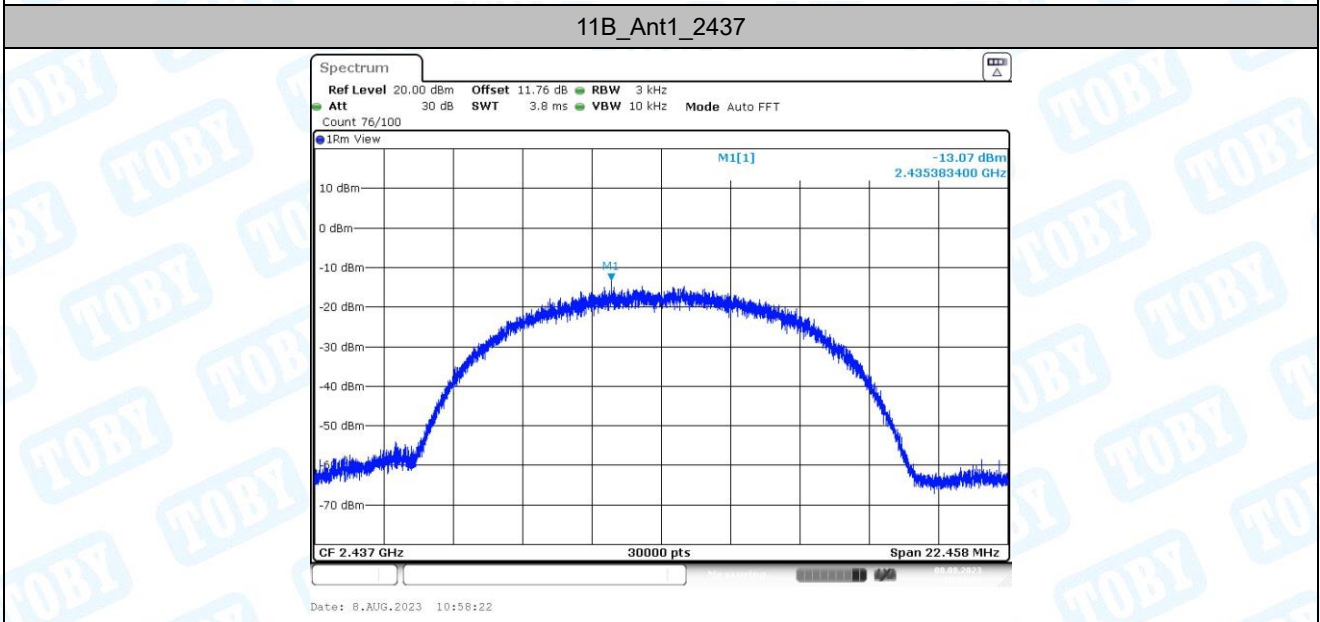
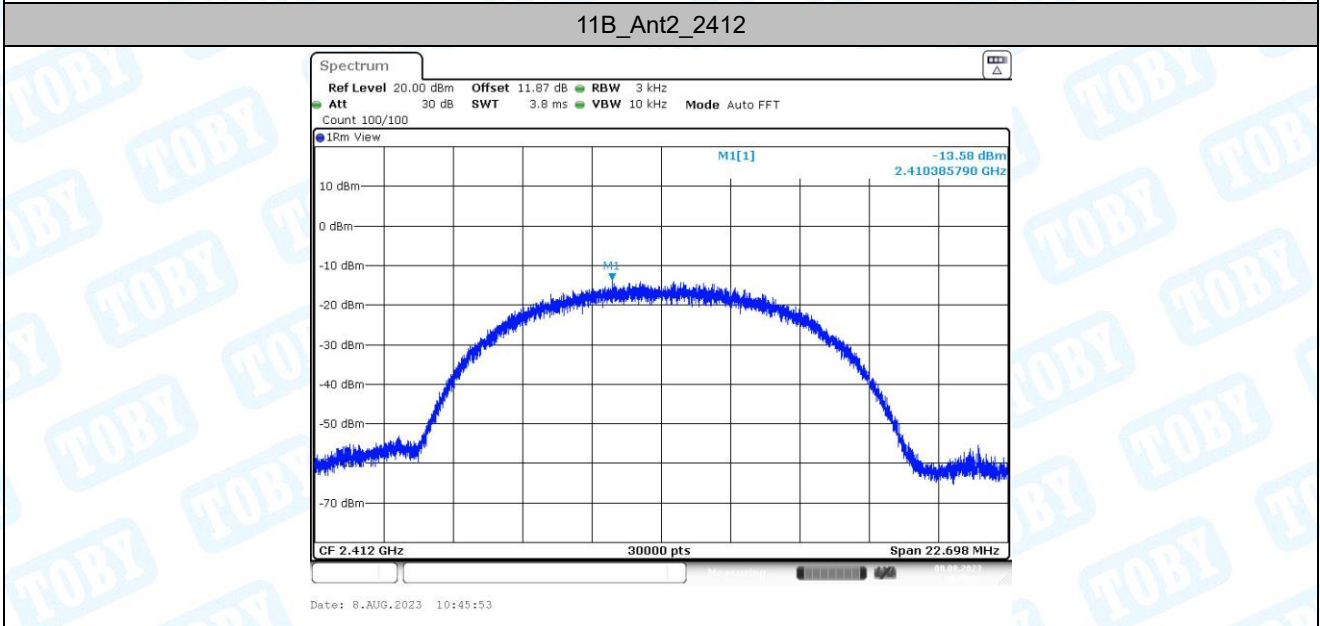
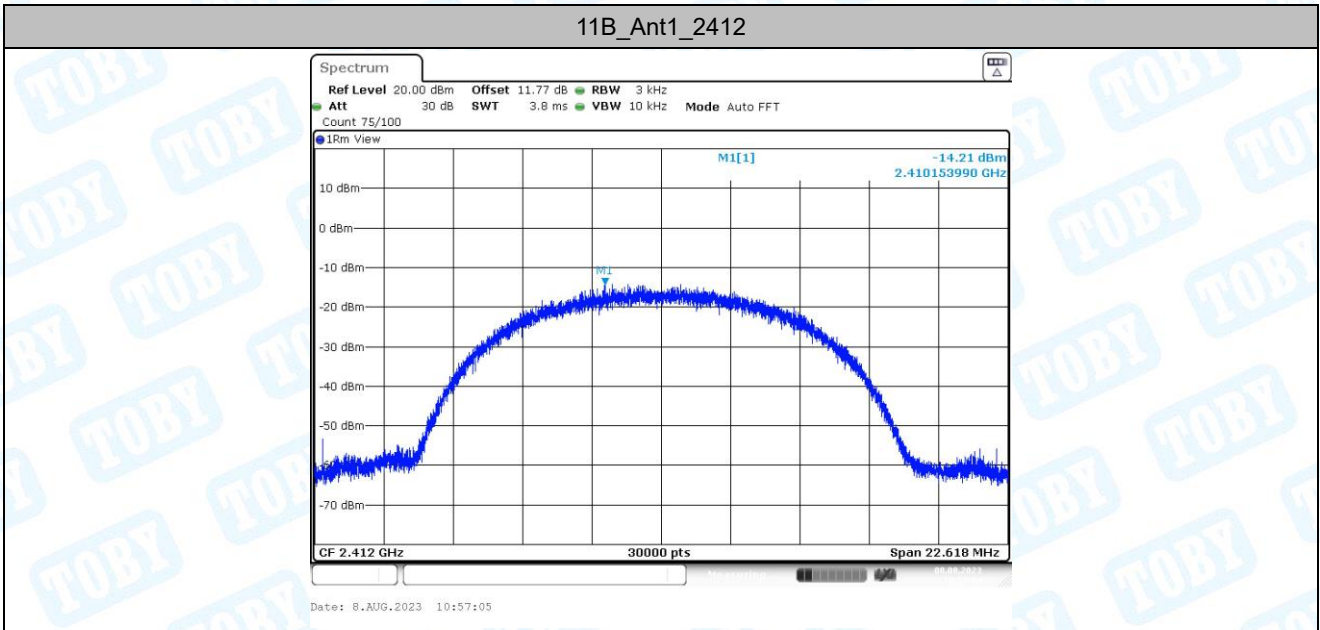
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.86	≤30.00	PASS
	Ant2	2412	16.38	≤30.00	PASS
	Ant1	2437	15.56	≤30.00	PASS
	Ant2	2437	16.43	≤30.00	PASS
	Ant1	2462	14.85	≤30.00	PASS
	Ant2	2462	15.70	≤30.00	PASS
11G-CDD	Ant1	2412	10.69	≤30.00	PASS
	Ant2	2412	11.02	≤30.00	PASS
	total	2412	13.87	≤30.00	PASS
	Ant1	2437	10.80	≤30.00	PASS
	Ant2	2437	10.91	≤30.00	PASS
	total	2437	13.87	≤30.00	PASS
	Ant1	2462	10.15	≤30.00	PASS
	Ant2	2462	10.35	≤30.00	PASS
11N20MIMO	total	2462	13.26	≤30.00	PASS
	Ant1	2412	9.97	≤30.00	PASS
	Ant2	2412	10.39	≤30.00	PASS
	total	2412	13.20	≤30.00	PASS
	Ant1	2437	11.38	≤30.00	PASS
	Ant2	2437	11.72	≤30.00	PASS
	total	2437	14.56	≤30.00	PASS
	Ant1	2462	10.02	≤30.00	PASS
	Ant2	2462	10.33	≤30.00	PASS
total	2462	13.19	≤30.00	PASS	

4. Maximum power spectral density

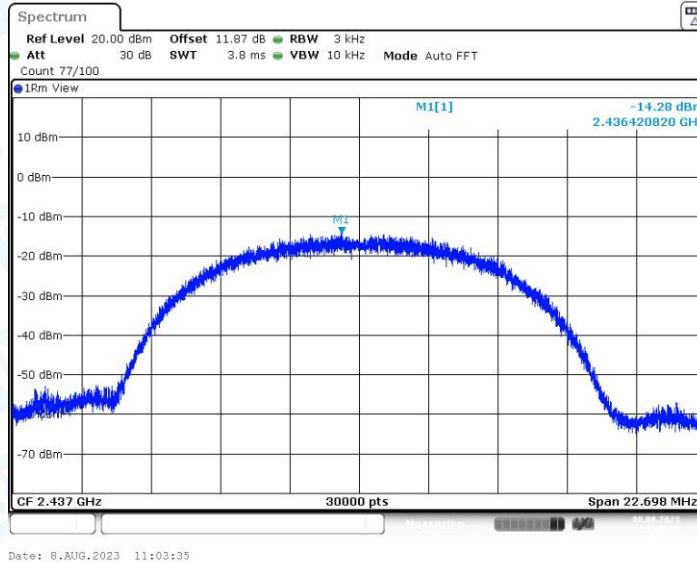
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.21	≤8.00	PASS
	Ant2	2412	-13.58	≤8.00	PASS
	Ant1	2437	-13.07	≤8.00	PASS
	Ant2	2437	-14.28	≤8.00	PASS
	Ant1	2462	-14.98	≤8.00	PASS
	Ant2	2462	-13.71	≤8.00	PASS
11G-CDD	Ant1	2412	-12.89	≤8.00	PASS
	Ant2	2412	-12.93	≤8.00	PASS
	total	2412	-9.90	≤8.00	PASS
	Ant1	2437	-15.56	≤8.00	PASS
	Ant2	2437	-15.56	≤8.00	PASS
	total	2437	-12.55	≤8.00	PASS
	Ant1	2462	-16.54	≤8.00	PASS
	Ant2	2462	-16.58	≤8.00	PASS
11N20MIMO	total	2462	-13.55	≤8.00	PASS
	Ant1	2412	-19.64	≤8.00	PASS
	Ant2	2412	-17.3	≤8.00	PASS
	total	2412	-15.30	≤8.00	PASS
	Ant1	2437	-18.44	≤8.00	PASS
	Ant2	2437	-16.56	≤8.00	PASS
	total	2437	-14.39	≤8.00	PASS
	Ant1	2462	-19.43	≤8.00	PASS
	Ant2	2462	-17.73	≤8.00	PASS
total	2462	-15.49	≤8.00	PASS	

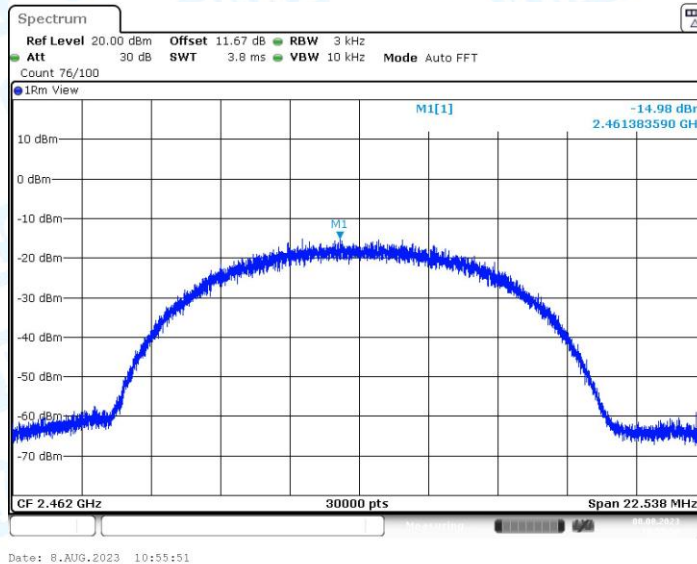
4.2. Test Graphs



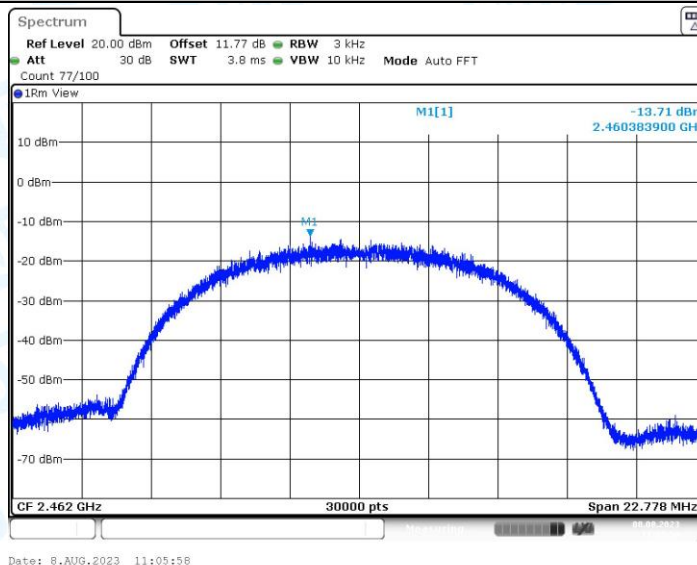
11B_Ant2_2437



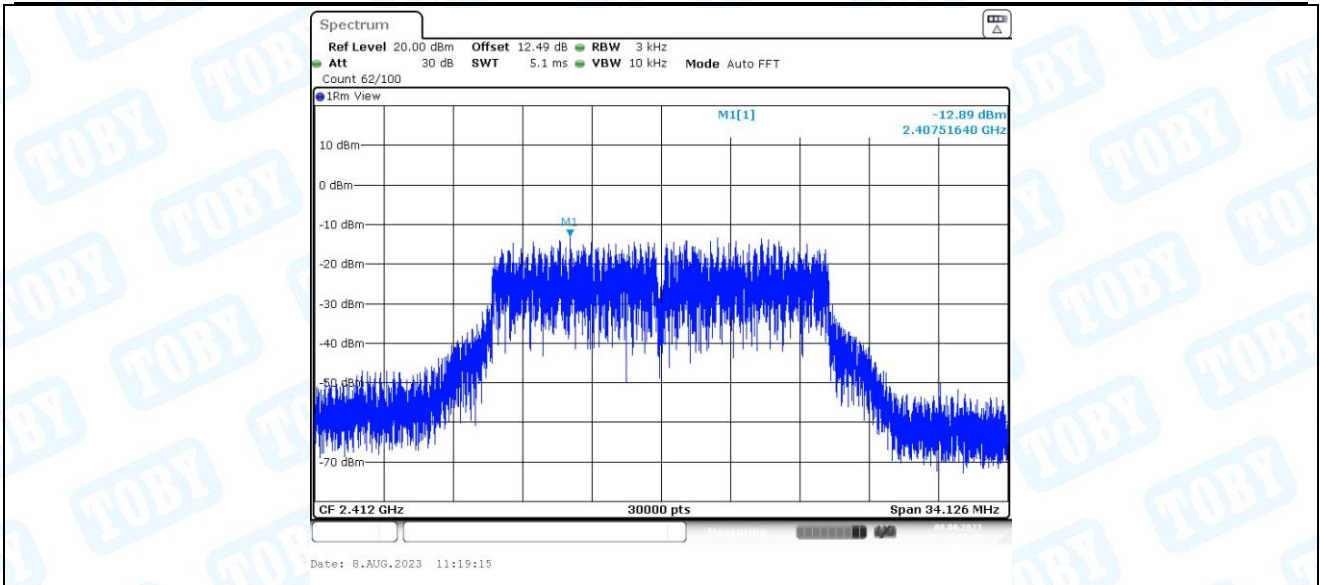
11B_Ant1_2462



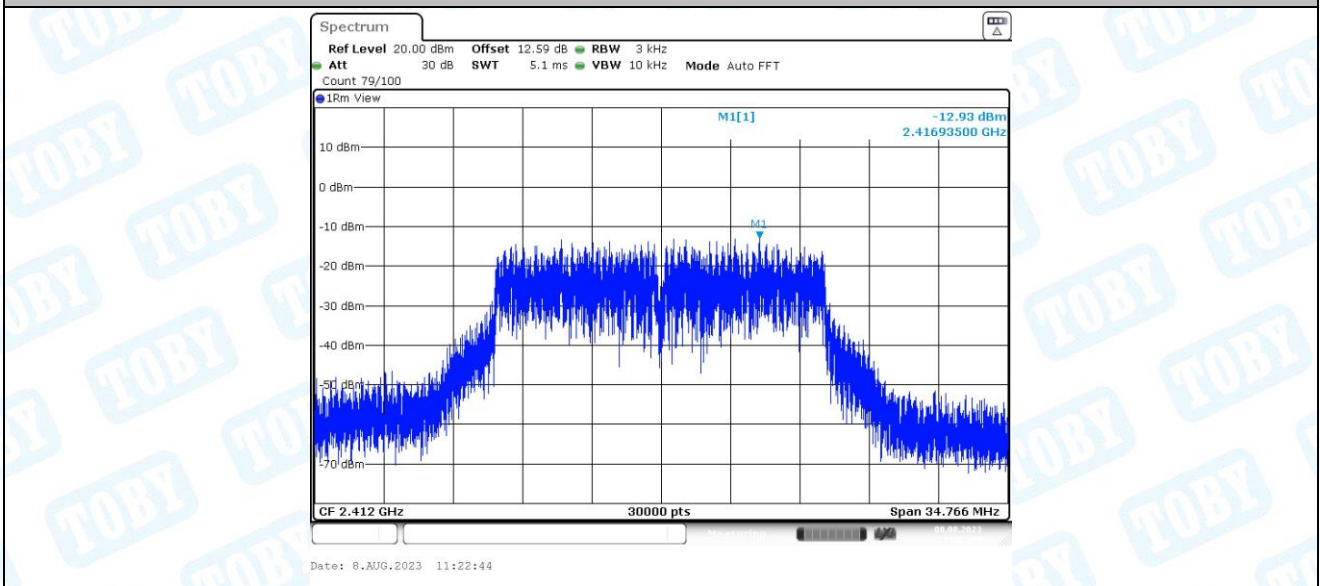
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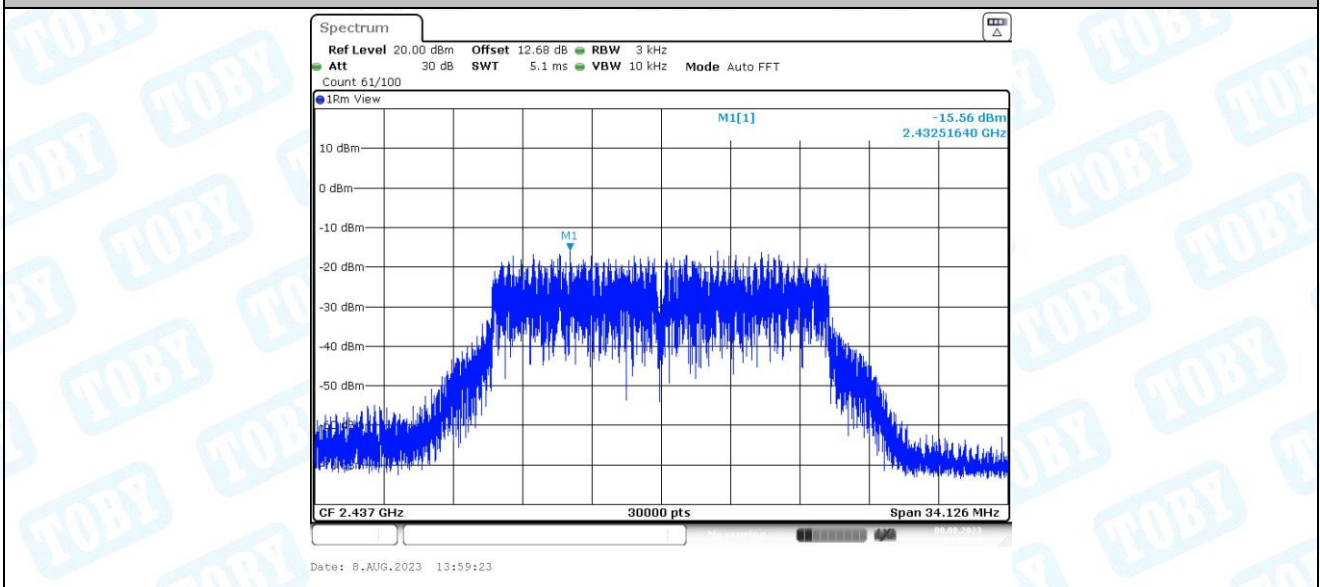
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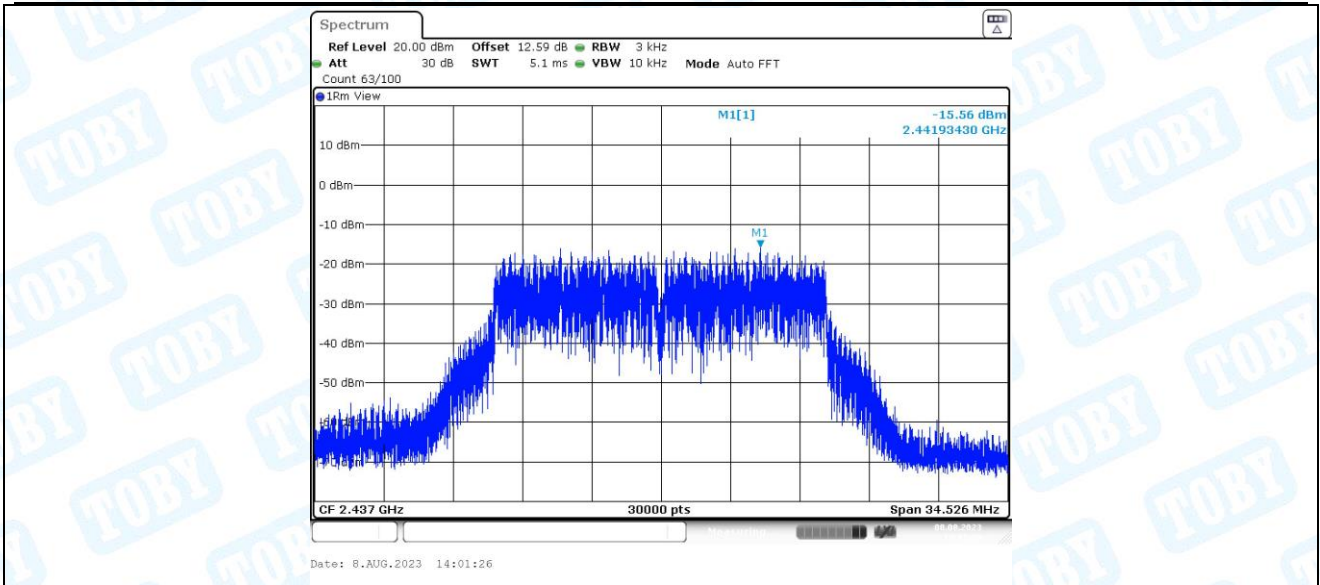
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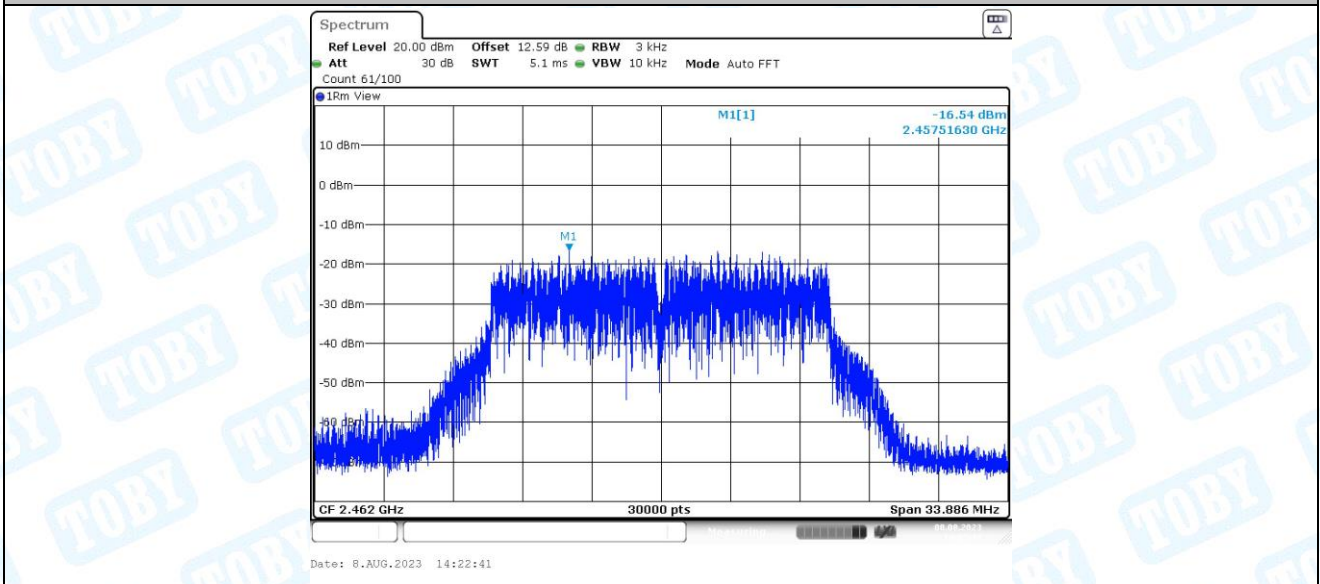
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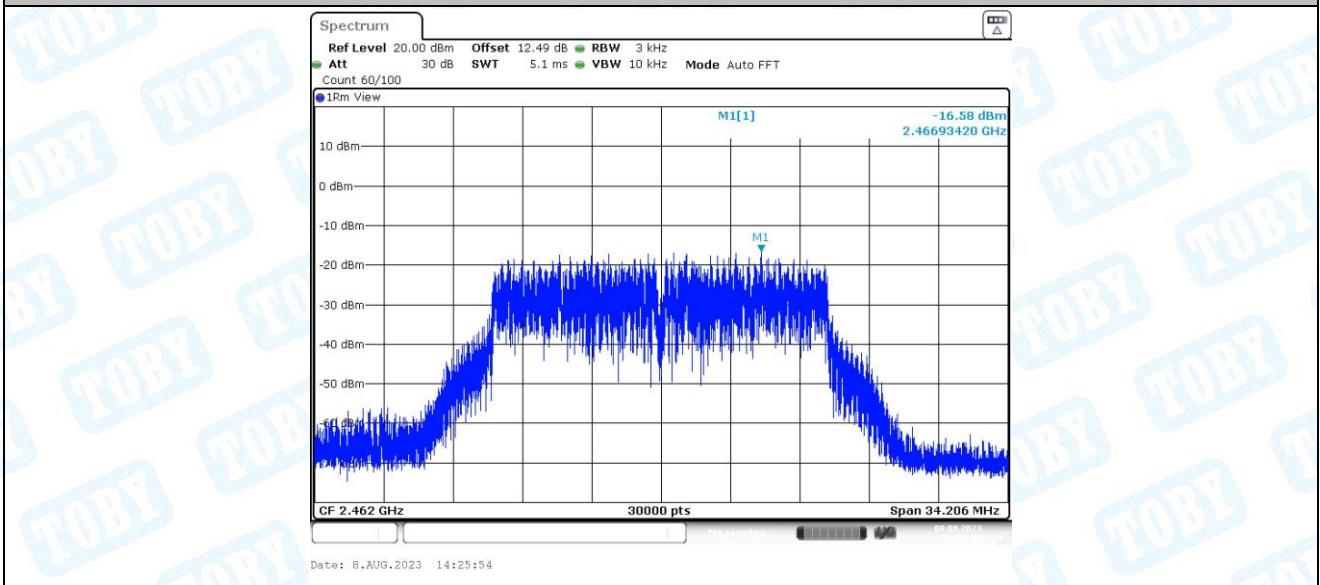
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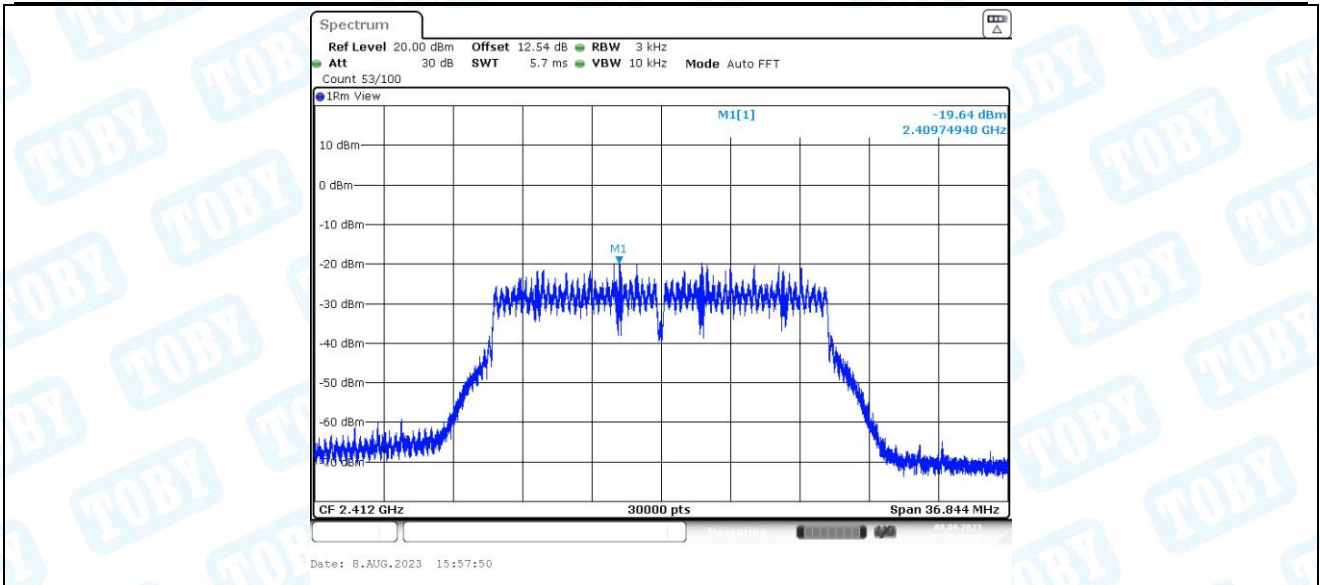
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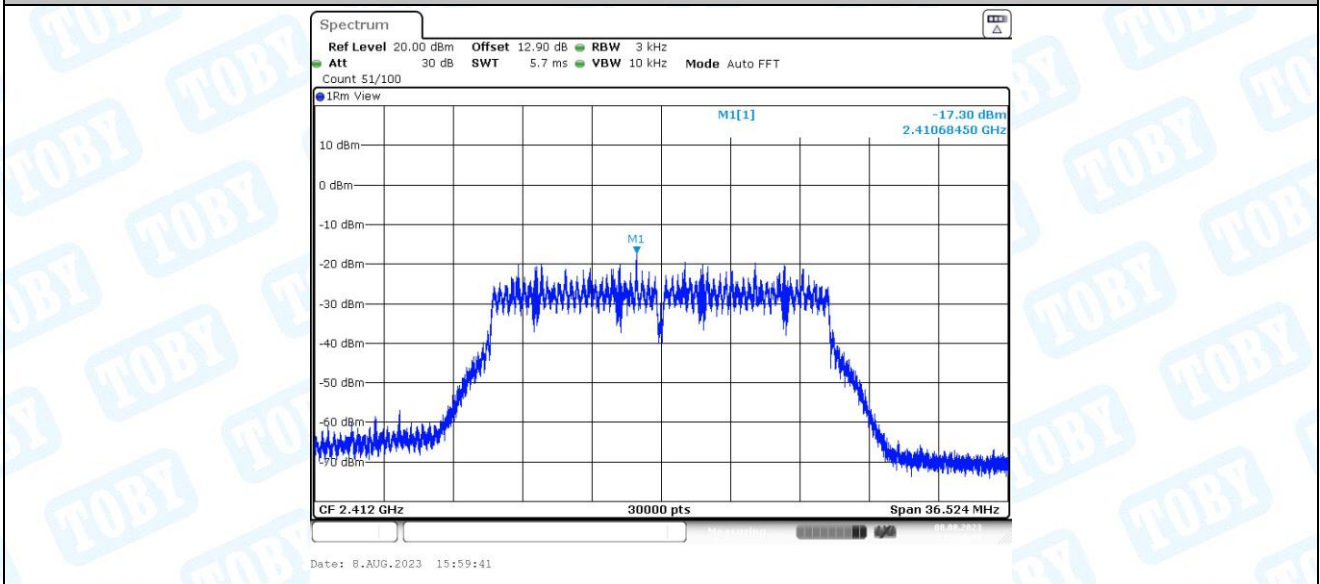
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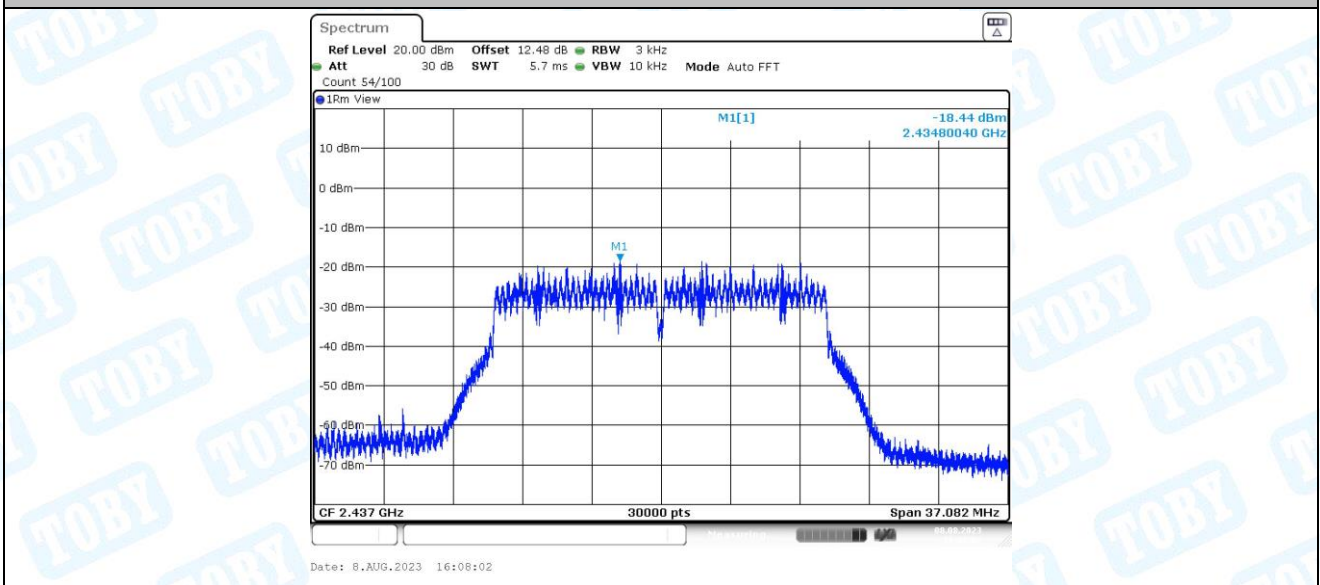
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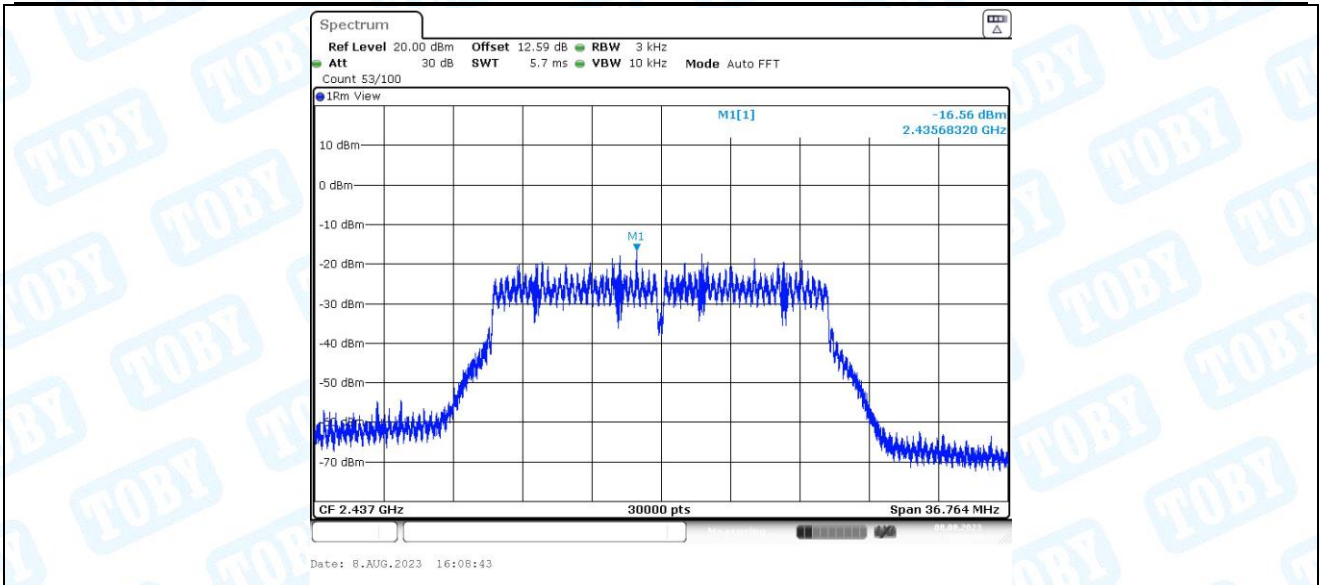
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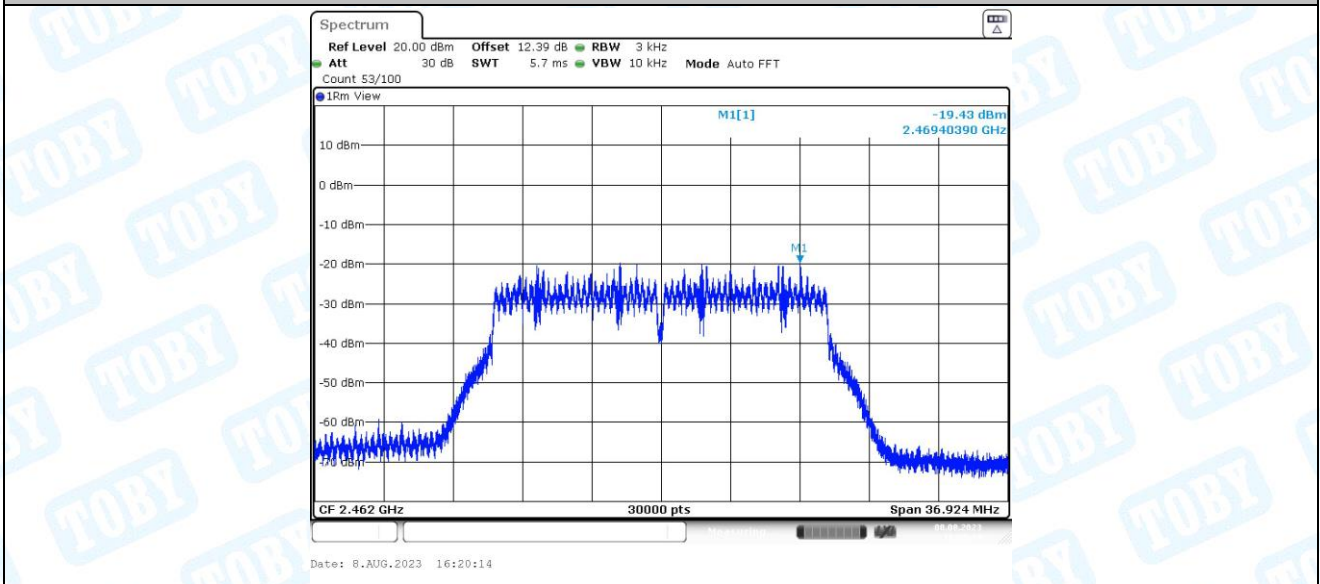
11N20MIMO_Ant1_2437



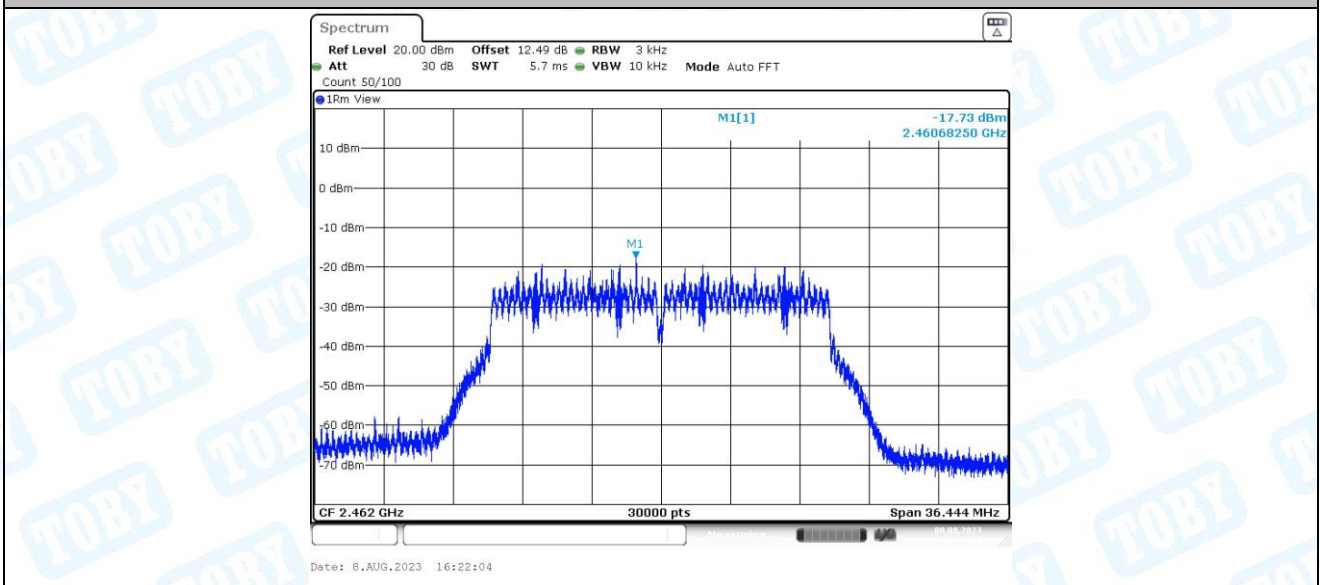
11N20MIMO_Ant2_2437



11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



5. Band edge measurements

5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.09	-33.38	≤-22.91	PASS
	Ant2	Low	2412	8.78	-32.87	≤-21.22	PASS
	Ant1	High	2462	5.87	-45.47	≤-24.13	PASS
	Ant2	High	2462	6.68	-44.67	≤-23.32	PASS
11G-CDD	Ant1	Low	2412	1.79	-29.55	≤-28.21	PASS
	Ant2	Low	2412	2.74	-29.59	≤-27.26	PASS
	Ant1	High	2462	-1.87	-45.41	≤-31.87	PASS
	Ant2	High	2462	-1.09	-45.24	≤-31.09	PASS
11N20MIMO	Ant1	Low	2412	-1.60	-39.27	≤-31.6	PASS
	Ant2	Low	2412	-1.16	-38.55	≤-31.16	PASS
	Ant1	High	2462	-1.65	-43.91	≤-31.65	PASS
	Ant2	High	2462	-1.13	-45.56	≤-31.13	PASS

5.2. Test Graphs

