

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

General Description of EUT	
EUT Name:	STREAMING MEDIA PLAYER
Model:	MAG555
Sample ID:	HC-C-202406-0129-01-01
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	24.2°C
Ambient Humidity:	49%RH
Test Power Supply:	DC 12V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202406-0129-122	

Contents

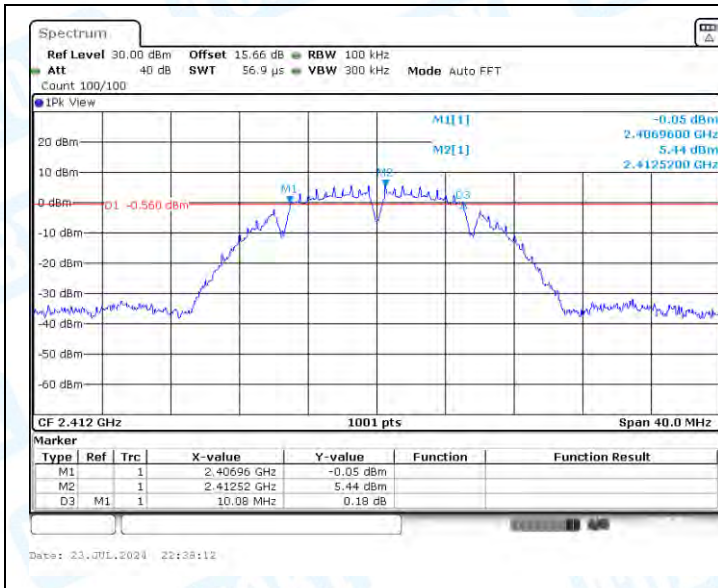
1: DTS Bandwidth.....	3
1.1 Test Result.....	3
1.2 Test Graphs	4
2: Occupied Channel Bandwidth	8
2.1 Test Result.....	8
2.2 Test Graphs	9
3: Maximum conducted output power.....	13
3.1 Test Result Average	13
4: Maximum power spectral density	14
4.1 Test Result.....	14
4.2 Test Graphs	15
5: Band edge measurements	19
5.1 Test Result.....	19
5.2 Test Graphs	20
6: Conducted Spurious Emission.....	23
6.1 Test Result.....	23
6.2 Test Graphs	25
7: Duty Cycle	37
7.1 Test Result.....	37
7.2 Test Graphs	38

1: DTS Bandwidth

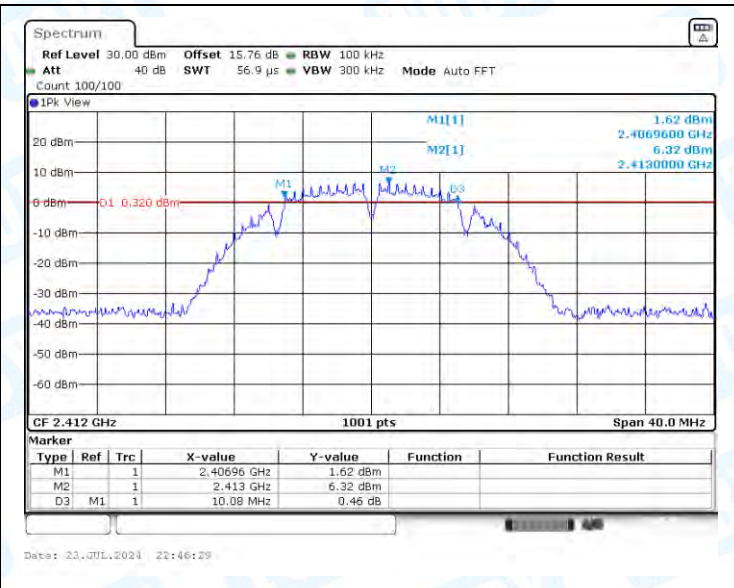
1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
11B	Ant2	2412	10.08	2406.96	2417.04	0.5	PASS
11B	Ant1	2437	10.08	2431.96	2442.04	0.5	PASS
11B	Ant2	2437	10.08	2431.96	2442.04	0.5	PASS
11B	Ant1	2462	10.08	2456.96	2467.04	0.5	PASS
11B	Ant2	2462	10.08	2456.96	2467.04	0.5	PASS
11G	Ant1	2412	16.44	2403.80	2420.24	0.5	PASS
11G	Ant2	2412	16.40	2403.80	2420.20	0.5	PASS
11G	Ant1	2437	15.52	2429.24	2444.76	0.5	PASS
11G	Ant2	2437	15.44	2429.44	2444.88	0.5	PASS
11G	Ant1	2462	15.12	2454.44	2469.56	0.5	PASS
11G	Ant2	2462	16.32	2453.84	2470.16	0.5	PASS
11N20MIMO	Ant1	2412	17.28	2403.24	2420.52	0.5	PASS
11N20MIMO	Ant2	2412	17.52	2403.24	2420.76	0.5	PASS
11N20MIMO	Ant1	2437	17.60	2428.20	2445.80	0.5	PASS
11N20MIMO	Ant2	2437	17.60	2428.20	2445.80	0.5	PASS
11N20MIMO	Ant1	2462	17.60	2453.20	2470.80	0.5	PASS
11N20MIMO	Ant2	2462	17.60	2453.20	2470.80	0.5	PASS
11N40MIMO	Ant1	2422	36.32	2403.84	2440.16	0.5	PASS
11N40MIMO	Ant2	2422	34.56	2405.04	2439.60	0.5	PASS
11N40MIMO	Ant1	2437	35.52	2419.08	2454.60	0.5	PASS
11N40MIMO	Ant2	2437	35.20	2419.40	2454.60	0.5	PASS
11N40MIMO	Ant1	2452	36.32	2433.84	2470.16	0.5	PASS
11N40MIMO	Ant2	2452	36.32	2433.84	2470.16	0.5	PASS

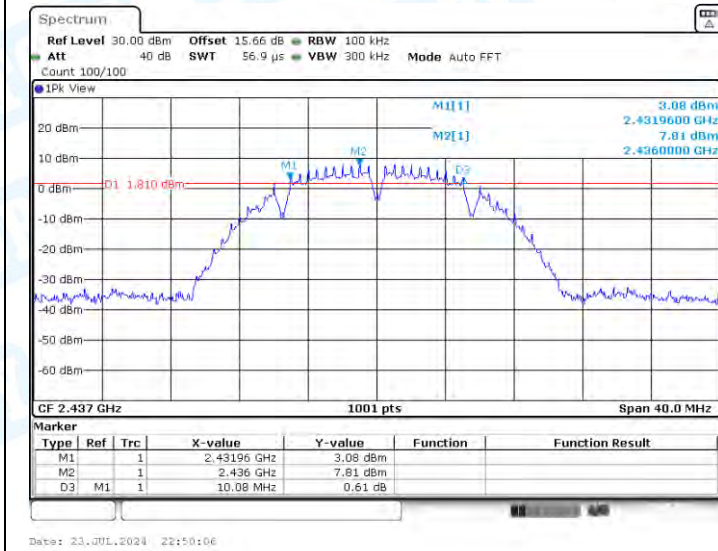
1.2 Test Graphs



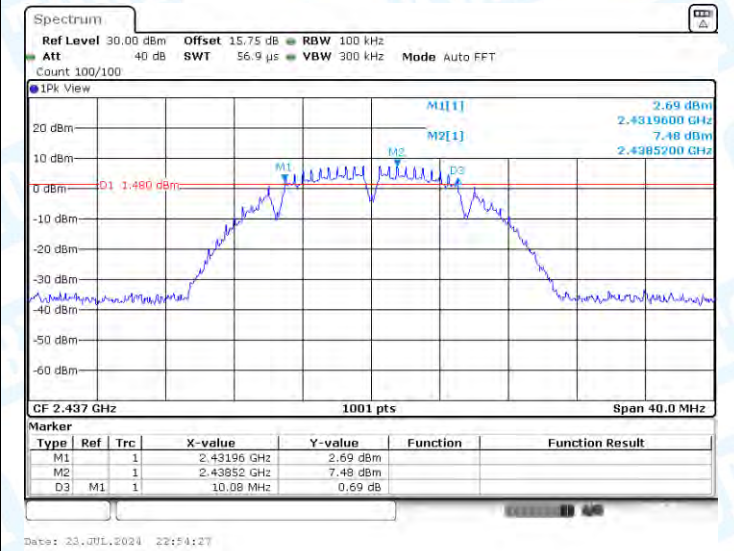
11B-Ant1-2412-PASS



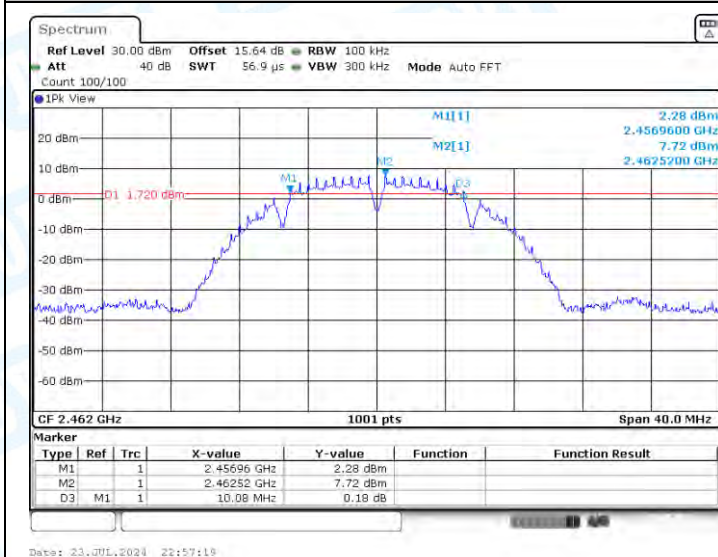
11B-Ant2-2412-PASS



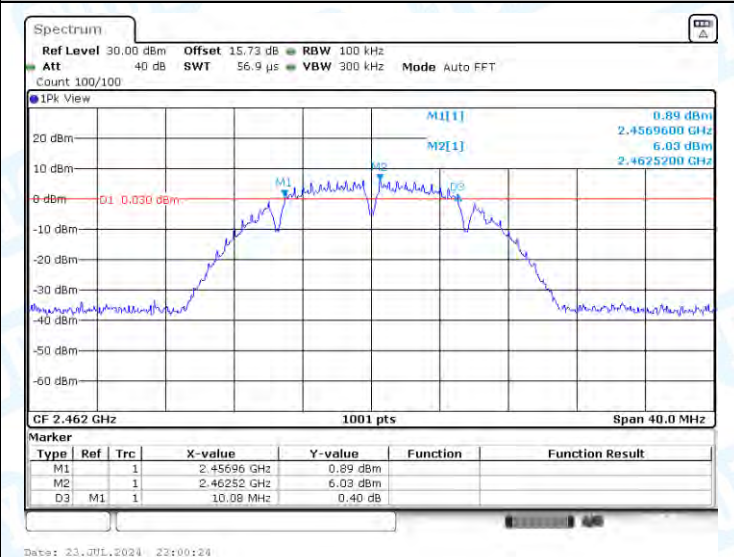
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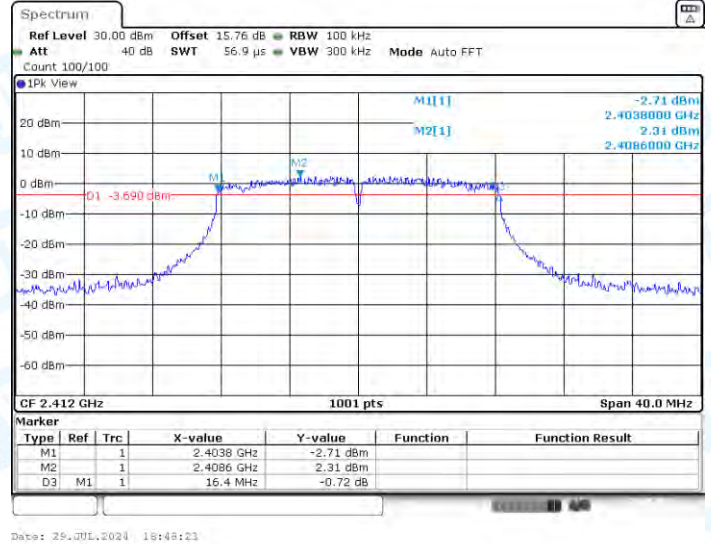
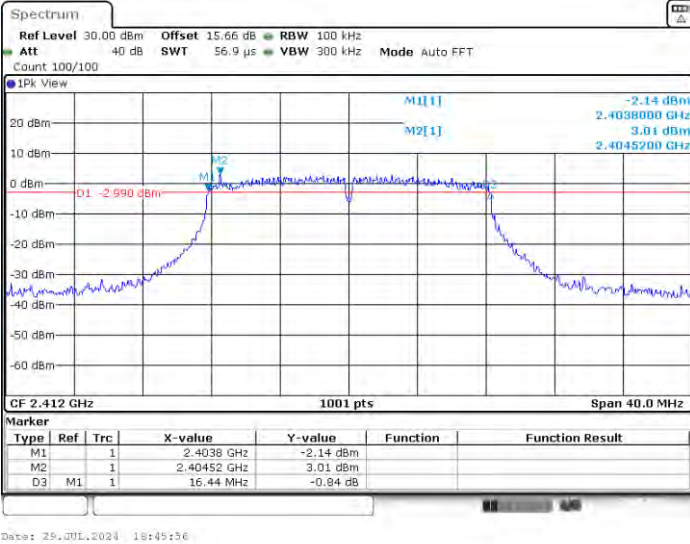
11B-Ant2-2437-PASS



11B-Ant1-2462-PASS

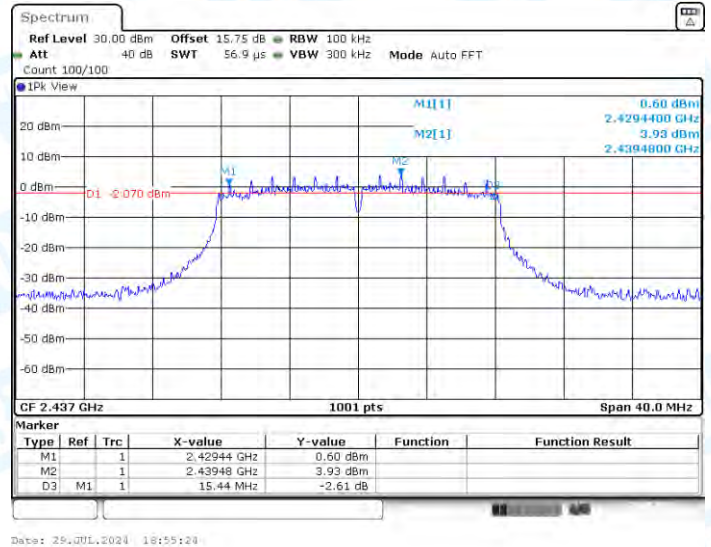
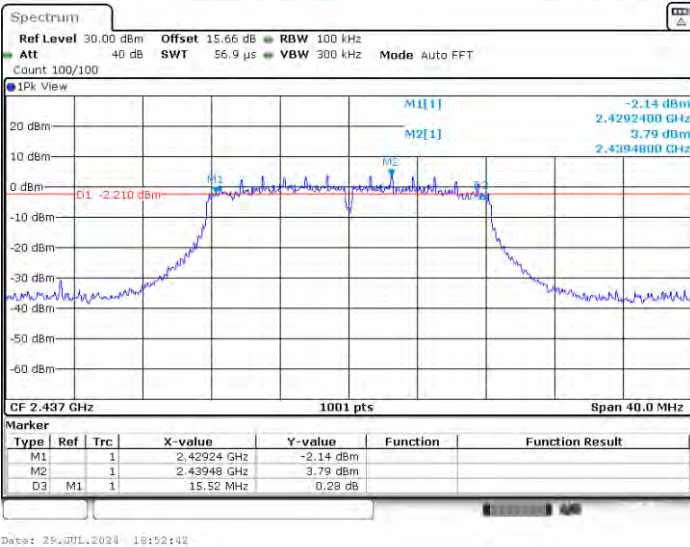


11B-Ant2-2462-PASS



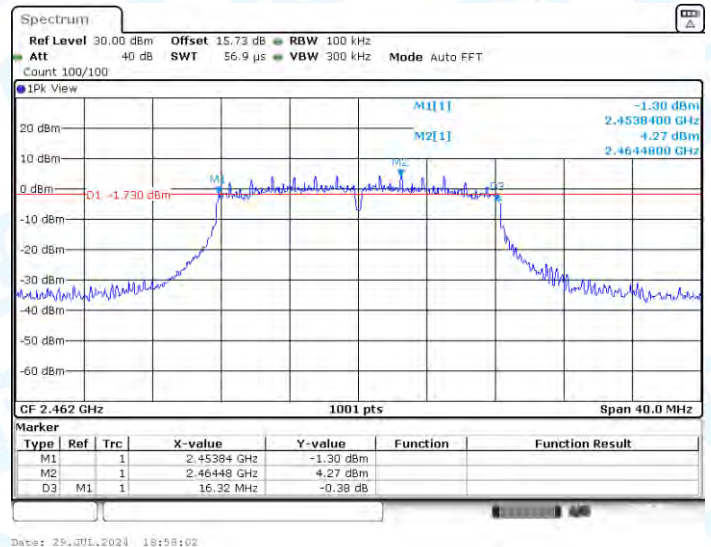
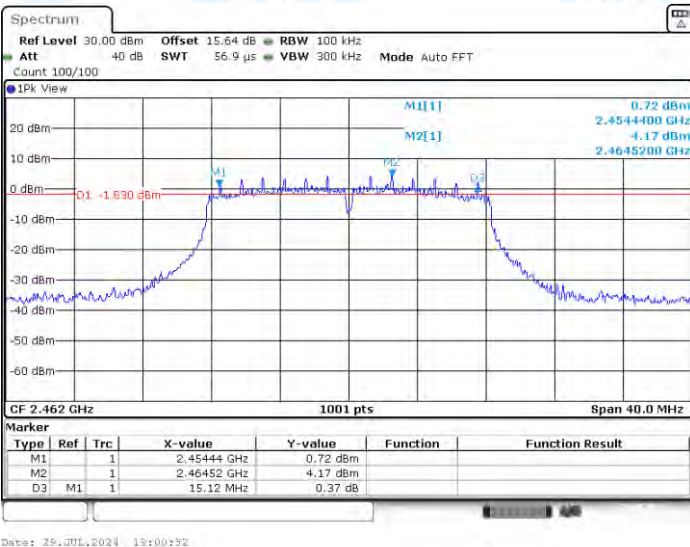
11G-Ant1-2412-PASS

11G-Ant2-2412-PASS



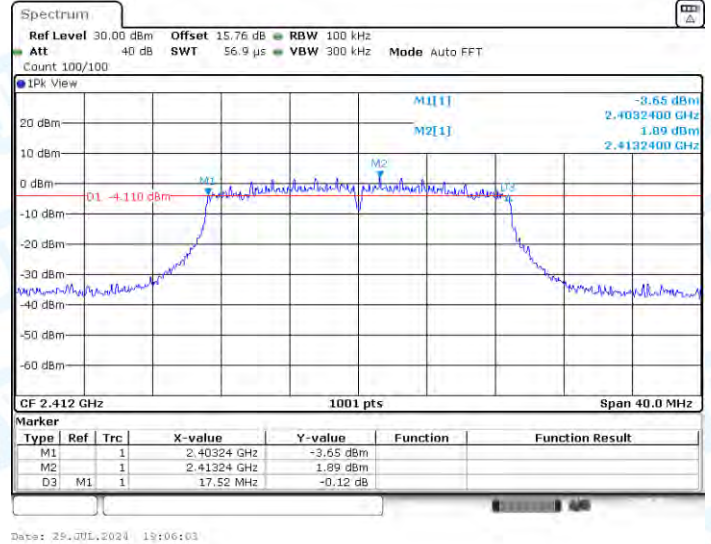
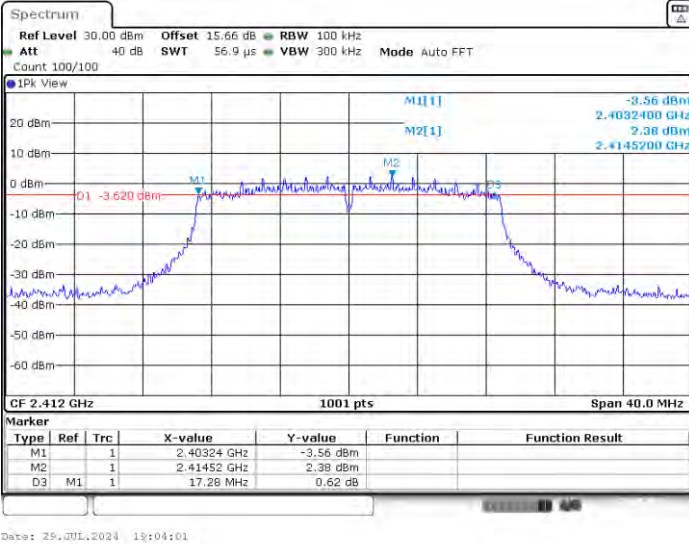
11G-Ant1-2437-PASS

11G-Ant2-2437-PASS

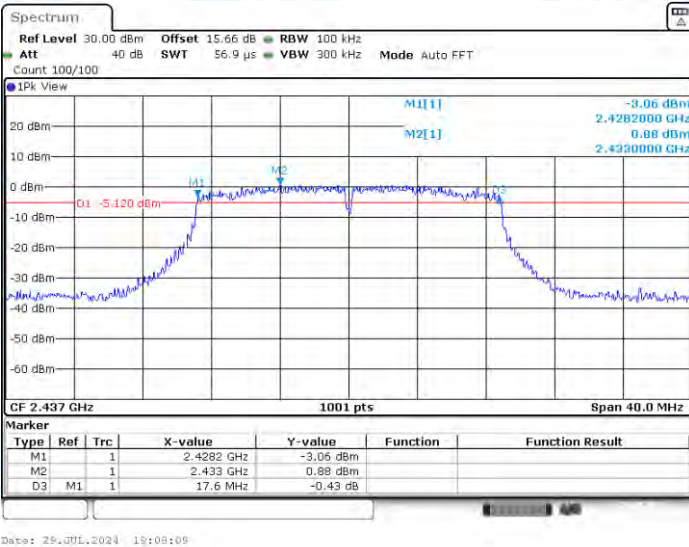


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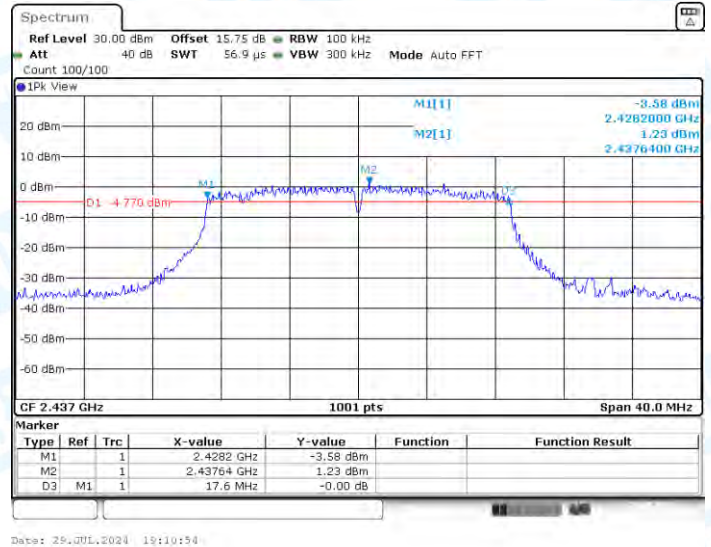
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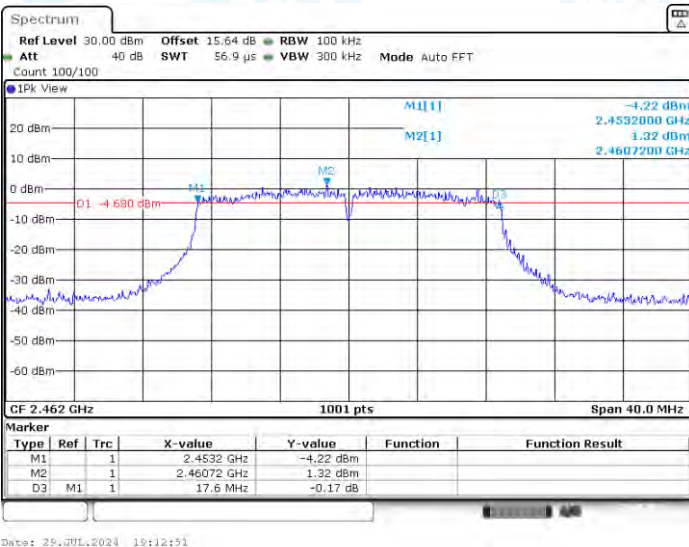
11N20MIMO-Ant1-2412-PASS



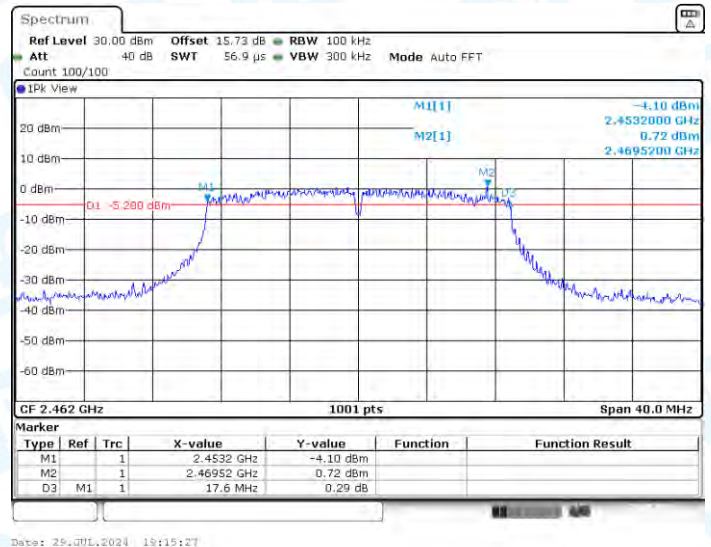
11N20MIMO-Ant2-2412-PASS



11N20MIMO-Ant1-2437-PASS

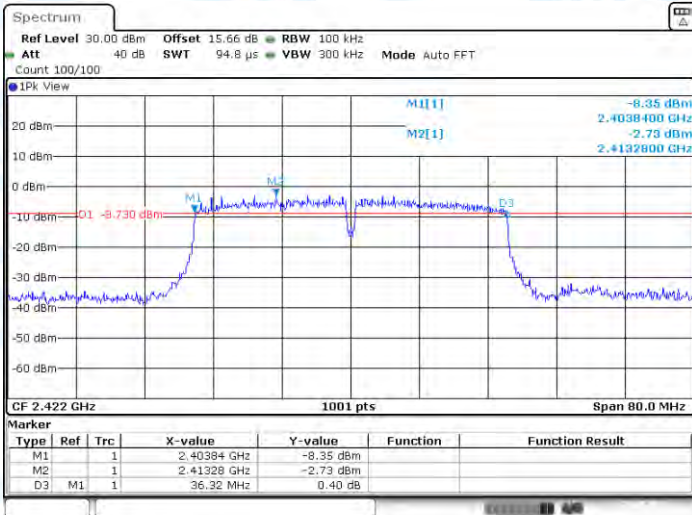


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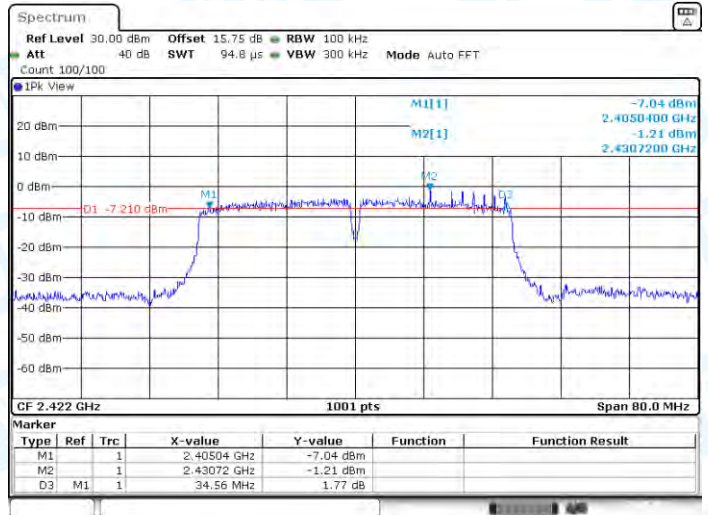


11N20MIMO-Ant1-2462-PASS

11N20MIMO-Ant2-2462-PASS

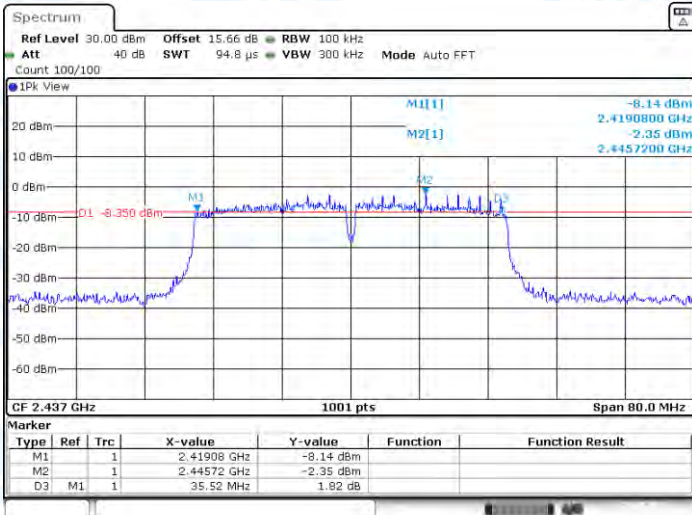


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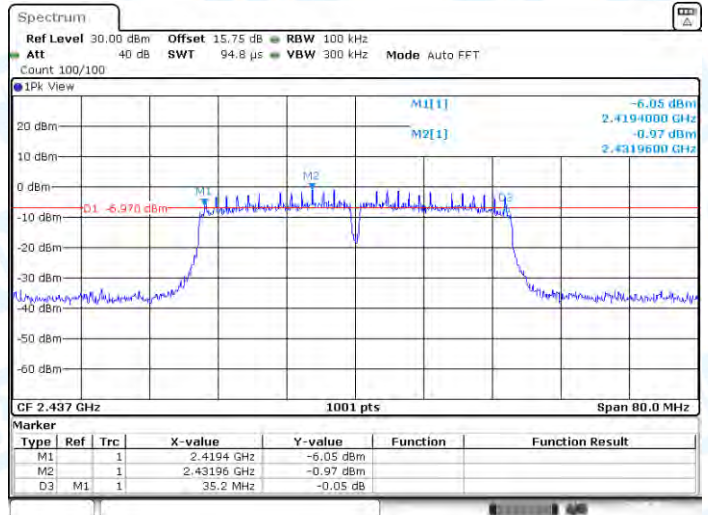
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11N40MIMO-Ant1-2422-PASS



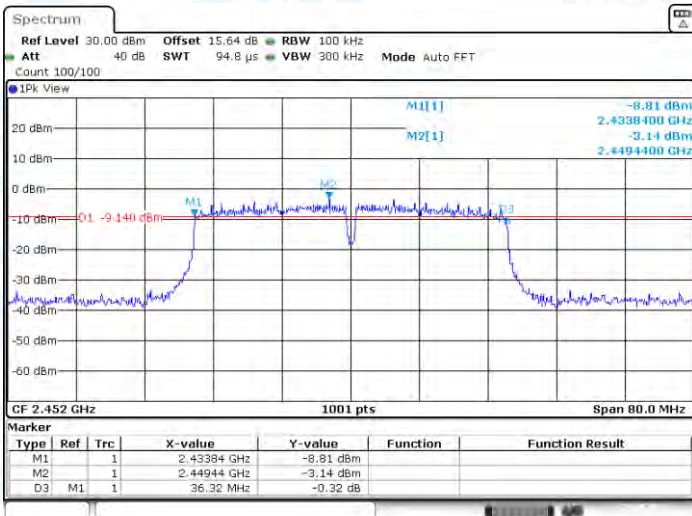
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11N40MIMO-Ant2-2422-PASS



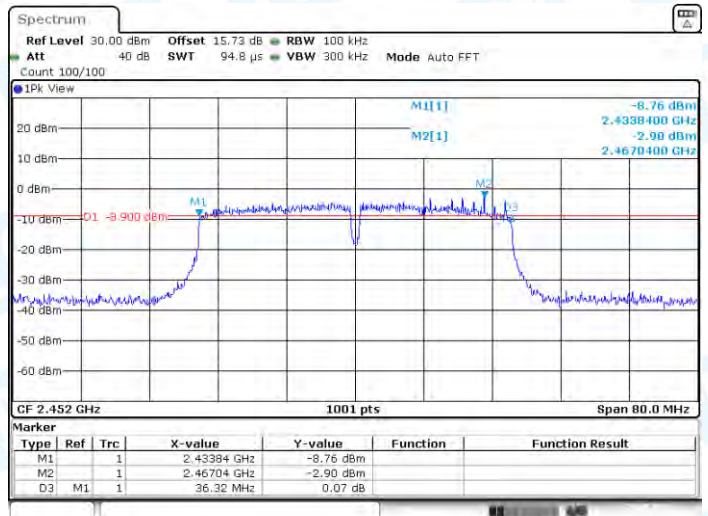
Date: 29.JUL.2024 19:25:09

11N40MIMO-Ant1-2437-PASS



Date: 29.JUL.2024 19:27:40

11N40MIMO-Ant2-2437-PASS



Date: 29.JUL.2024 19:29:56

11N40MIMO-Ant1-2452-PASS

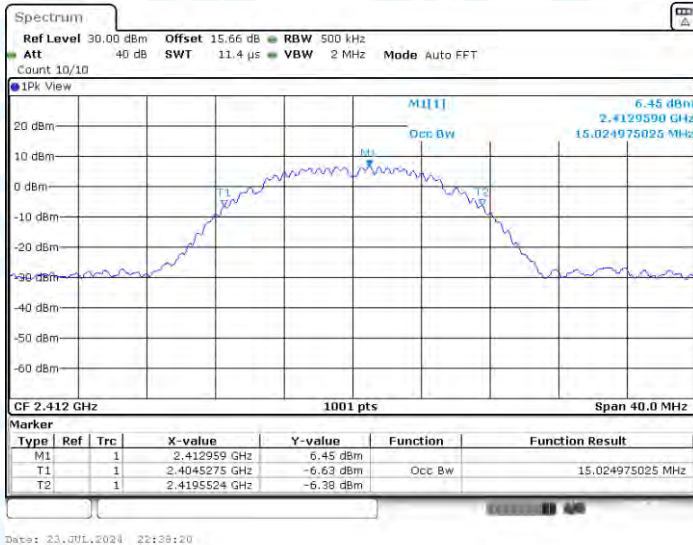
11N40MIMO-Ant2-2452-PASS

2: Occupied Channel Bandwidth

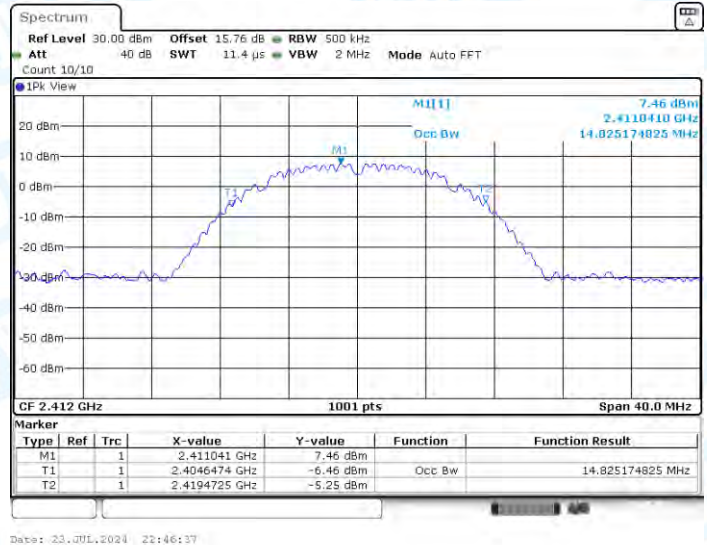
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.025	2404.5275	2419.5524	---	---
11B	Ant2	2412	14.825	2404.6474	2419.4725	---	---
11B	Ant1	2437	14.865	2429.5674	2444.4326	---	---
11B	Ant2	2437	14.825	2429.6474	2444.4725	---	---
11B	Ant1	2462	14.905	2454.5674	2469.4725	---	---
11B	Ant2	2462	14.825	2454.6474	2469.4725	---	---
11G	Ant1	2412	17.103	2403.3686	2420.4715	---	---
11G	Ant2	2412	16.943	2403.4086	2420.3516	---	---
11G	Ant1	2437	16.783	2428.5684	2445.3516	---	---
11G	Ant2	2437	16.623	2428.6883	2445.3117	---	---
11G	Ant1	2462	16.783	2453.4885	2470.2717	---	---
11G	Ant2	2462	16.703	2453.6883	2470.3916	---	---
11N20MIMO	Ant1	2412	17.982	2403.0090	2420.9910	---	---
11N20MIMO	Ant2	2412	18.302	2402.8492	2421.1508	---	---
11N20MIMO	Ant1	2437	18.382	2427.8492	2446.2308	---	---
11N20MIMO	Ant2	2437	18.222	2427.9690	2446.1908	---	---
11N20MIMO	Ant1	2462	18.022	2452.9291	2470.9510	---	---
11N20MIMO	Ant2	2462	17.902	2453.0490	2470.9510	---	---
11N40MIMO	Ant1	2422	36.204	2403.9381	2440.1419	---	---
11N40MIMO	Ant2	2422	36.044	2404.0180	2440.0619	---	---
11N40MIMO	Ant1	2437	36.683	2418.6184	2455.3017	---	---
11N40MIMO	Ant2	2437	36.124	2418.9381	2455.0619	---	---
11N40MIMO	Ant1	2452	36.364	2433.6983	2470.0619	---	---
11N40MIMO	Ant2	2452	36.204	2433.8581	2470.0619	---	---

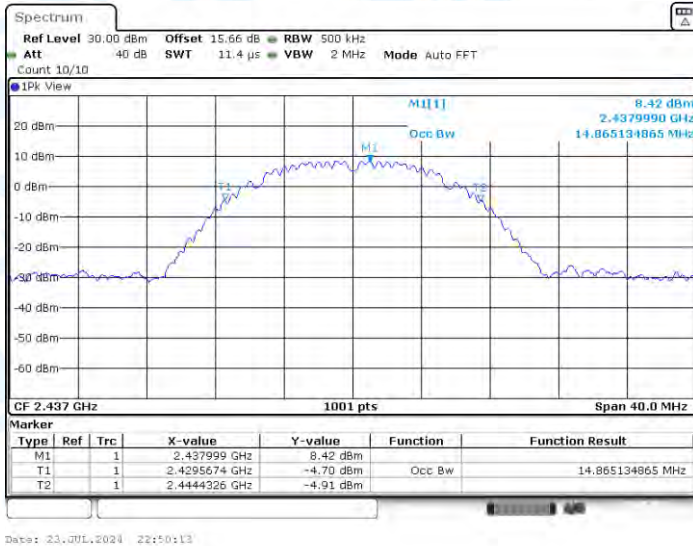
2.2 Test Graphs



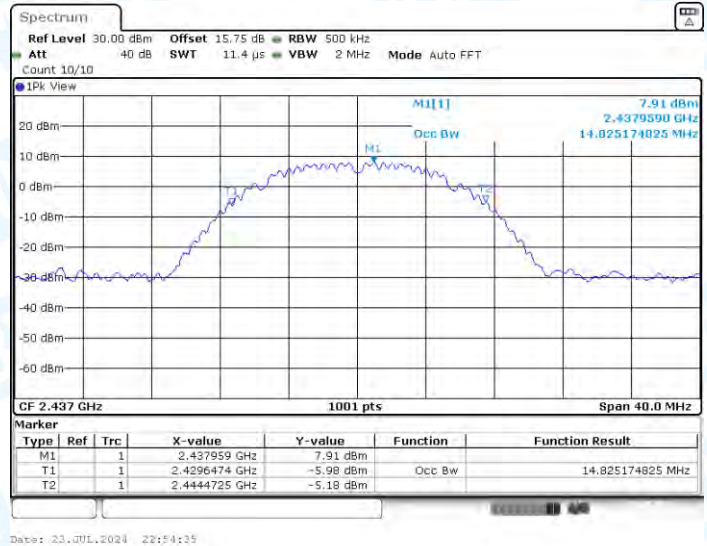
11B-Ant1-2412



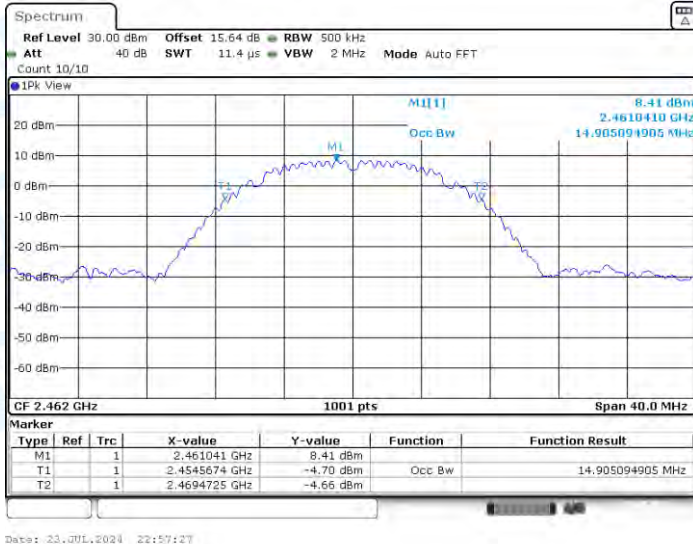
11B-Ant2-2412



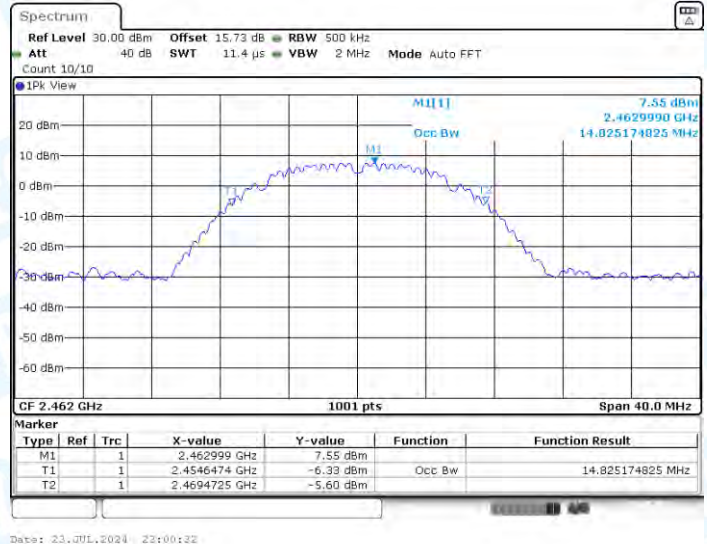
11B-Ant1-2437



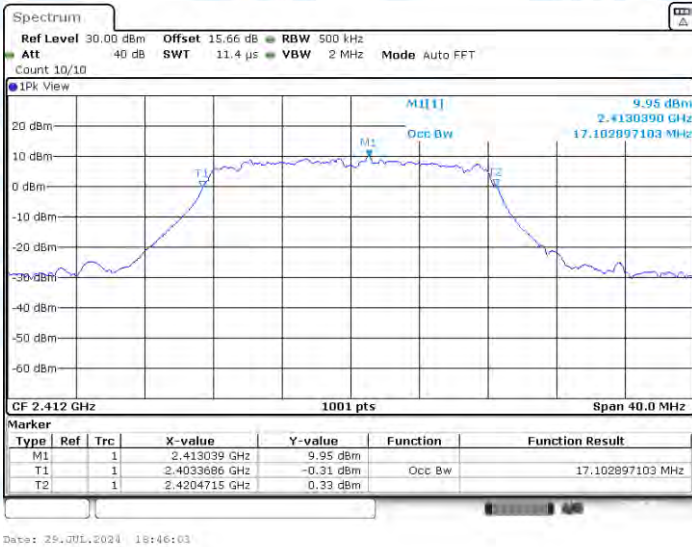
11B-Ant2-2437



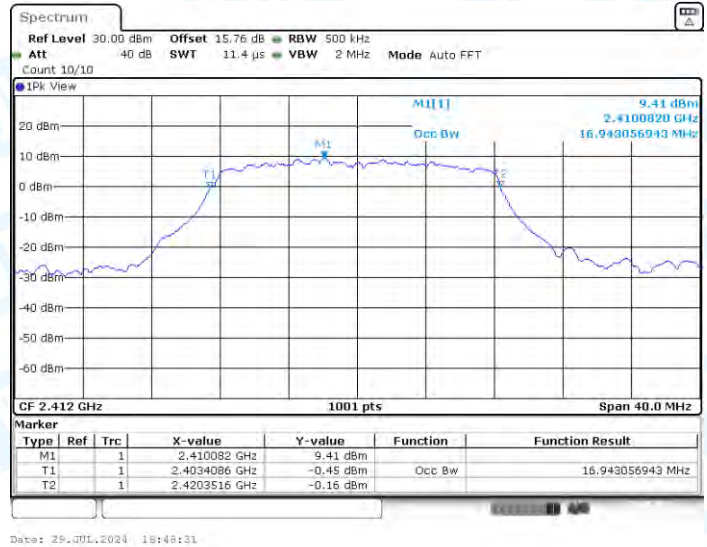
11B-Ant1-2462



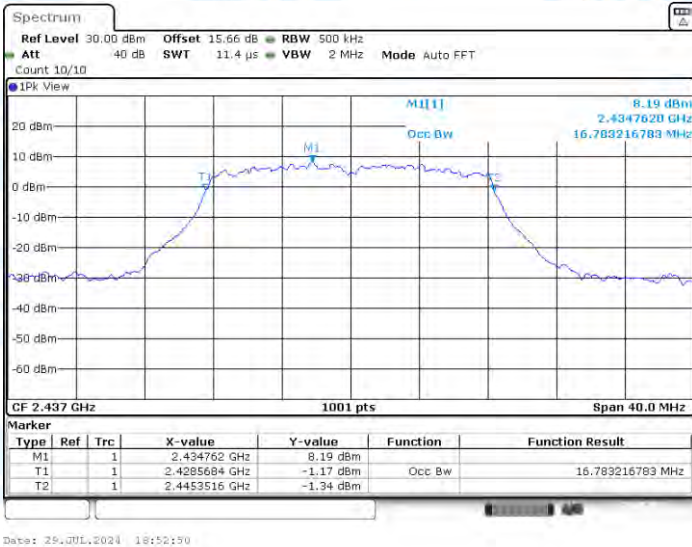
11B-Ant2-2462



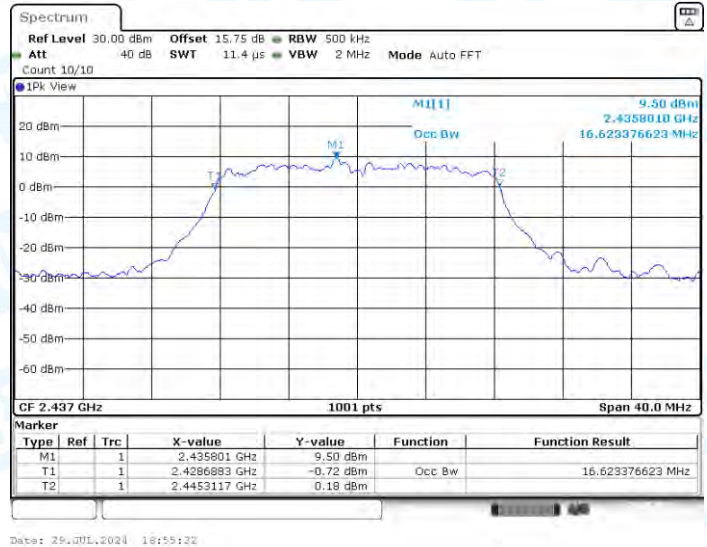
11G-Ant1-2412



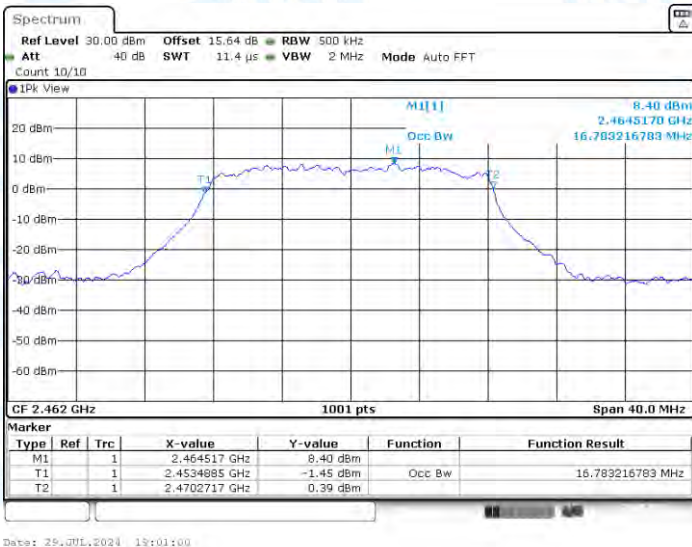
11G-Ant2-2412



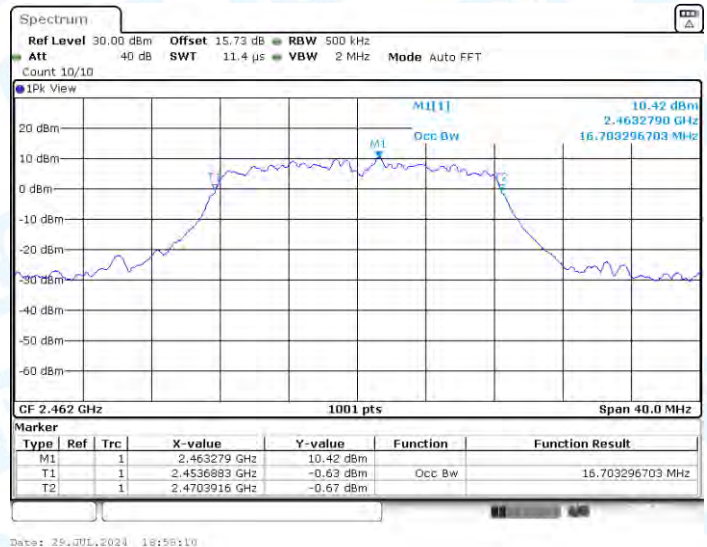
11G-Ant1-2437



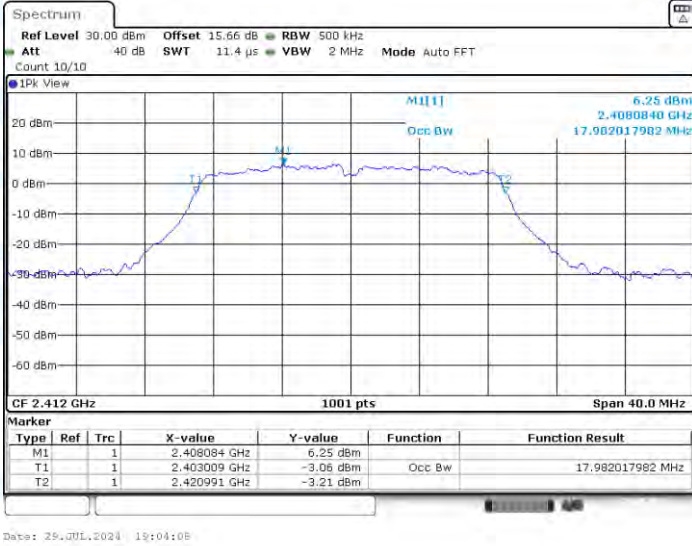
11G-Ant2-2437



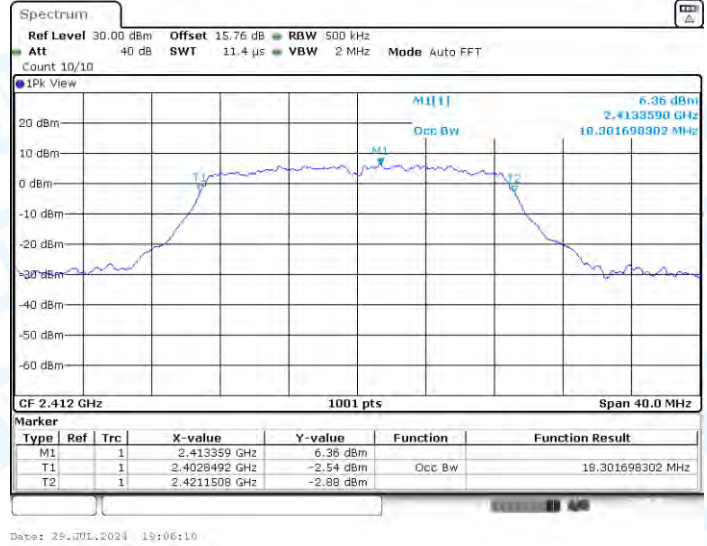
11G-Ant1-2462



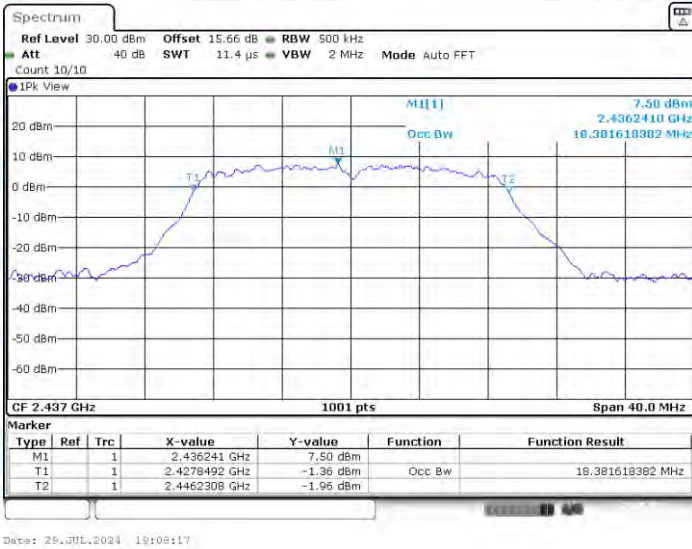
11G-Ant2-2462



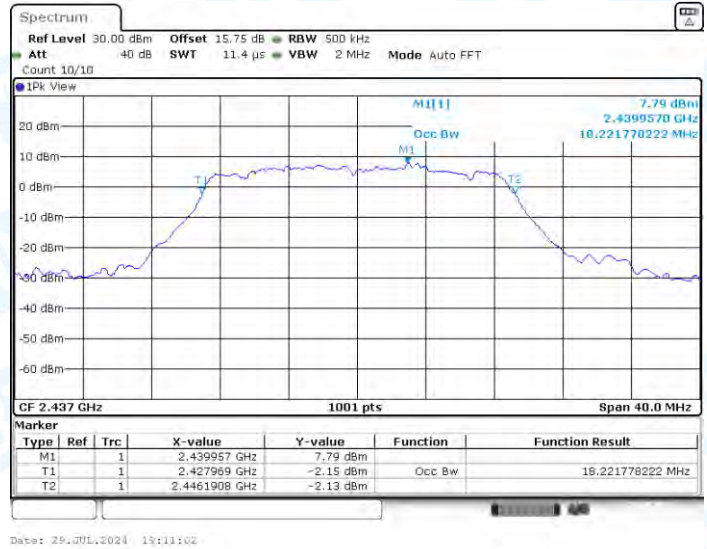
11N20MIMO-Ant1-2412



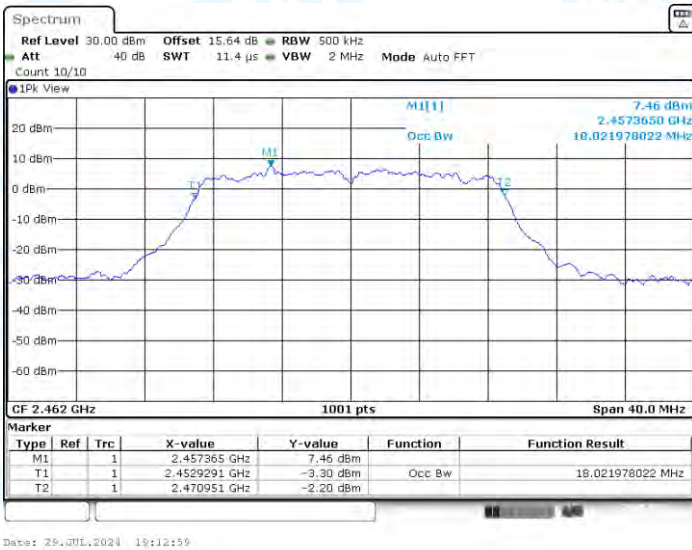
11N20MIMO-Ant2-2412



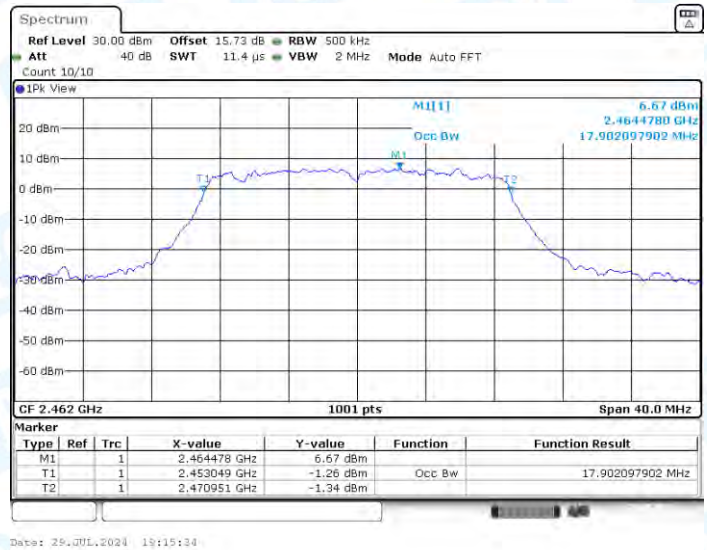
11N20MIMO-Ant1-2437



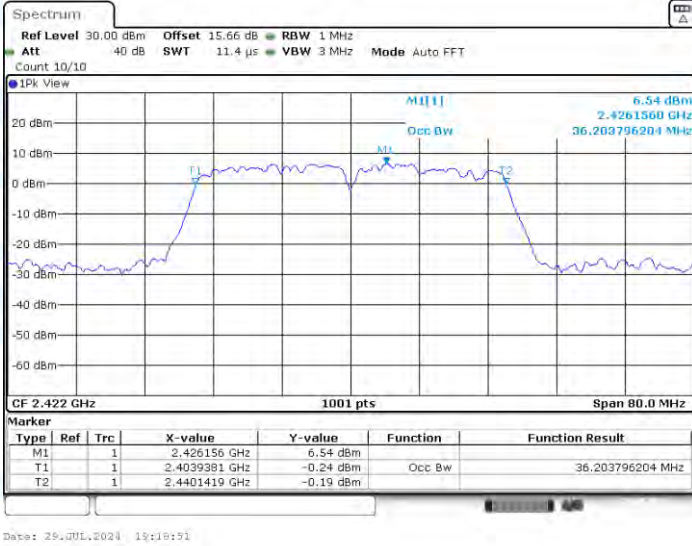
11N20MIMO-Ant2-2437



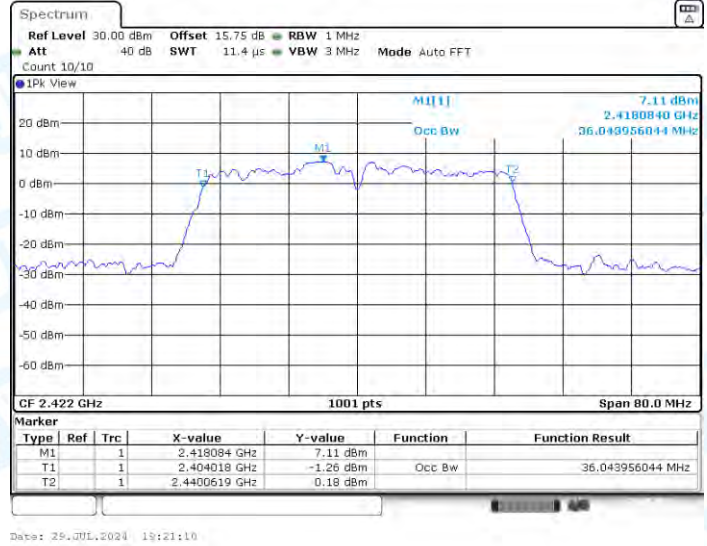
11N20MIMO-Ant1-2462



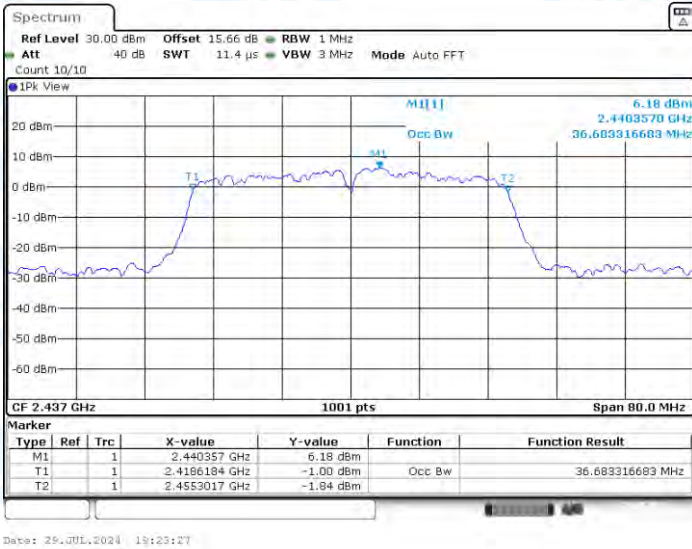
11N20MIMO-Ant2-2462



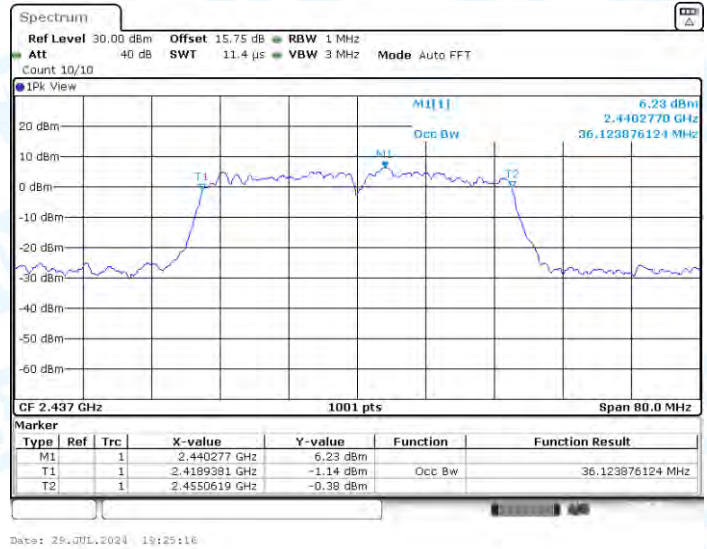
11N40MIMO-Ant1-2422



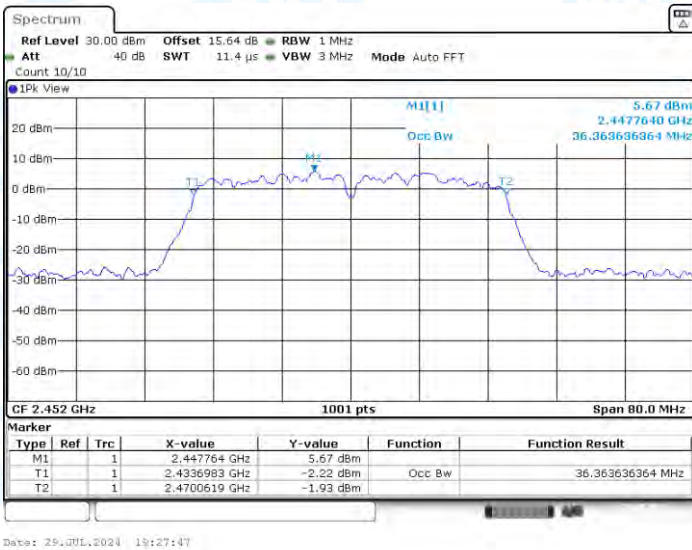
11N40MIMO-Ant2-2422



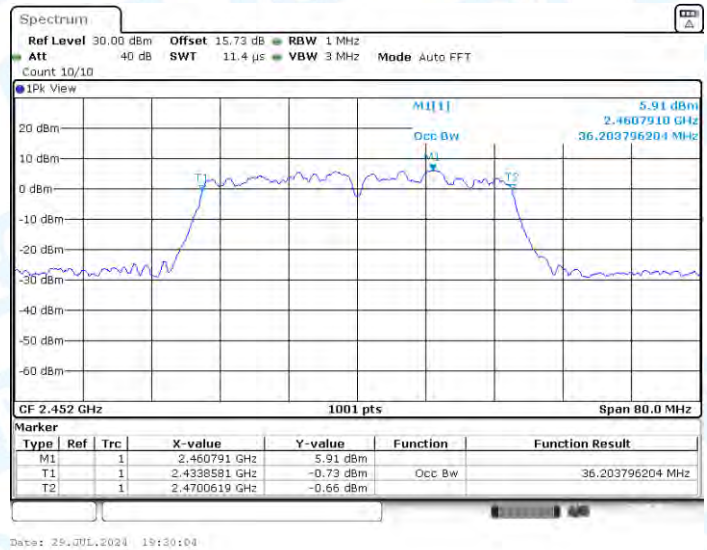
11N40MIMO-Ant1-2437



11N40MIMO-Ant2-2437



11N40MIMO-Ant1-2452



11N40MIMO-Ant2-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.02	≤30.00	PASS
11B	Ant2	2412	15.76	≤30.00	PASS
11B	Ant1	2437	16.66	≤30.00	PASS
11B	Ant2	2437	16.16	≤30.00	PASS
11B	Ant1	2462	16.73	≤30.00	PASS
11B	Ant2	2462	15.81	≤30.00	PASS
11G	Ant1	2412	17.16	≤30.00	PASS
11G	Ant2	2412	16.59	≤30.00	PASS
11G	Ant1	2437	16.13	≤30.00	PASS
11G	Ant2	2437	16.29	≤30.00	PASS
11G	Ant1	2462	16.38	≤30.00	PASS
11G	Ant2	2462	16.10	≤30.00	PASS
11N20MIMO	Ant1	2412	14.43	≤30.00	PASS
11N20MIMO	Ant2	2412	14.41	≤30.00	PASS
11N20MIMO	total	2412	17.43	≤29.35	PASS
11N20MIMO	Ant1	2437	14.87	≤30.00	PASS
11N20MIMO	Ant2	2437	14.98	≤30.00	PASS
11N20MIMO	total	2437	17.94	≤29.35	PASS
11N20MIMO	Ant1	2462	14.29	≤30.00	PASS
11N20MIMO	Ant2	2462	14.75	≤30.00	PASS
11N20MIMO	total	2462	17.54	≤29.35	PASS
11N40MIMO	Ant1	2422	13.80	≤30.00	PASS
11N40MIMO	Ant2	2422	13.98	≤30.00	PASS
11N40MIMO	total	2422	16.90	≤29.35	PASS
11N40MIMO	Ant1	2437	12.79	≤30.00	PASS
11N40MIMO	Ant2	2437	13.19	≤30.00	PASS
11N40MIMO	total	2437	16.00	≤29.35	PASS
11N40MIMO	Ant1	2452	12.81	≤30.00	PASS
11N40MIMO	Ant2	2452	13.29	≤30.00	PASS
11N40MIMO	total	2452	16.07	≤29.35	PASS

Note: 1, For MIMO Mode, Directional gain = $3.64+10*\log(2)=6.65\text{dBi}$; $G_{ANT1}=3.64\text{dBi}$; $G_{ANT2}=3.64\text{dBi}$; and the Directional gain $> 6\text{dBi}$, So the $P_{\text{limit}}=P_{\text{limit}}-(6.65-6)=29.35\text{dBm}$.
 2. The Duty Cycle Factor is compensated in the graph.

4: Maximum power spectral density

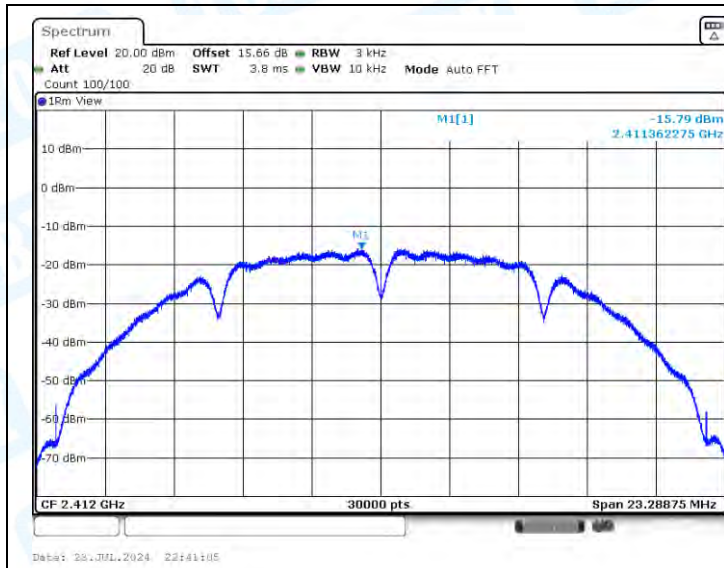
4.1 Test Result

TestMode	Ant.	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.66	≤8.00	PASS
11B	Ant2	2412	-15.86	≤8.00	PASS
11B	Ant1	2437	-14.68	≤8.00	PASS
11B	Ant2	2437	-15.09	≤8.00	PASS
11B	Ant1	2462	-14.89	≤8.00	PASS
11B	Ant2	2462	-15.64	≤8.00	PASS
11G	Ant1	2412	-13.89	≤8.00	PASS
11G	Ant2	2412	-14.70	≤8.00	PASS
11G	Ant1	2437	-15.31	≤8.00	PASS
11G	Ant2	2437	-15.29	≤8.00	PASS
11G	Ant1	2462	-14.89	≤8.00	PASS
11G	Ant2	2462	-15.77	≤8.00	PASS
11N20MIMO	Ant1	2412	-16.45	≤8.00	PASS
11N20MIMO	Ant2	2412	-17.29	≤8.00	PASS
11N20MIMO	total	2412	-13.84	≤7.35	PASS
11N20MIMO	Ant1	2437	-16.40	≤8.00	PASS
11N20MIMO	Ant2	2437	-16.06	≤8.00	PASS
11N20MIMO	total	2437	-13.22	≤7.35	PASS
11N20MIMO	Ant1	2462	-16.50	≤8.00	PASS
11N20MIMO	Ant2	2462	-17.17	≤8.00	PASS
11N20MIMO	total	2462	-13.81	≤7.35	PASS
11N40MIMO	Ant1	2422	-19.44	≤8.00	PASS
11N40MIMO	Ant2	2422	-19.41	≤8.00	PASS
11N40MIMO	total	2422	-16.41	≤7.35	PASS
11N40MIMO	Ant1	2437	-20.47	≤8.00	PASS
11N40MIMO	Ant2	2437	-19.87	≤8.00	PASS
11N40MIMO	total	2437	-17.15	≤7.35	PASS
11N40MIMO	Ant1	2452	-20.16	≤8.00	PASS
11N40MIMO	Ant2	2452	-19.70	≤8.00	PASS
11N40MIMO	total	2452	-16.91	≤7.35	PASS

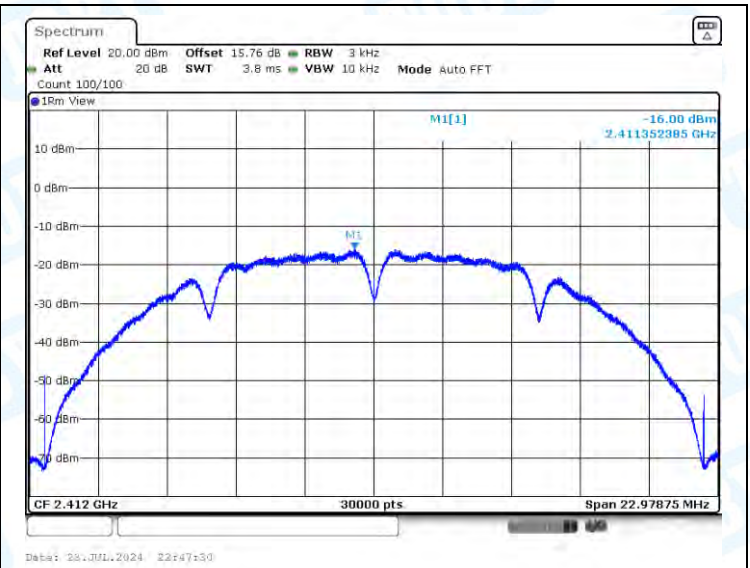
Note: 1, For MIMO Mode, Directional gain = $3.64 + 10 \cdot \log(2) = 6.65\text{dBi}$; $G_{ANT1} = 3.64\text{dBi}$; $G_{ANT2} = 3.64\text{dBi}$; and the Directional gain $> 6\text{dBi}$, So the $PSD_{limit} = PSD_{limit} - (6.65 - 6) = 7.35\text{dBm}$.

2. The Duty Cycle Factor is compensated in the graph.

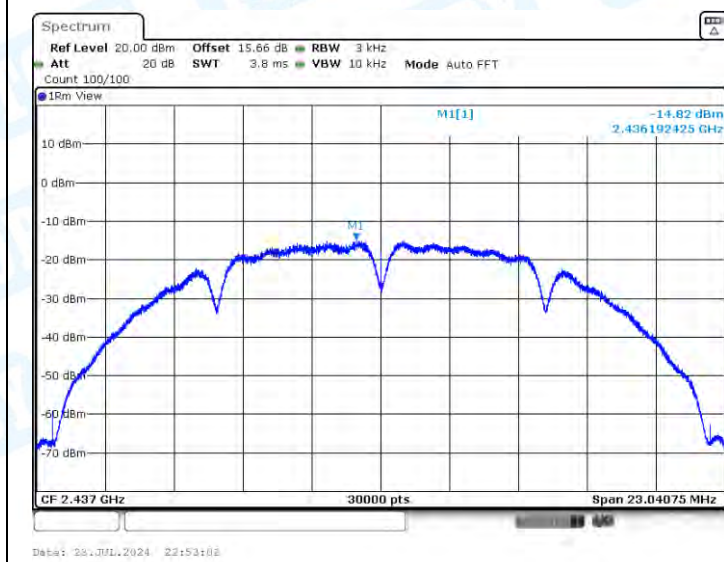
4.2 Test Graphs



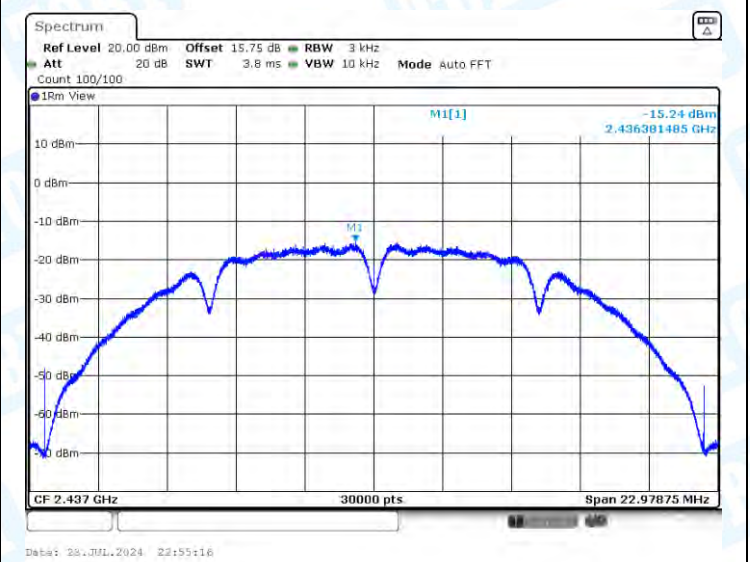
11B-Ant1-2412-PASS



11B-Ant2-2412-PASS



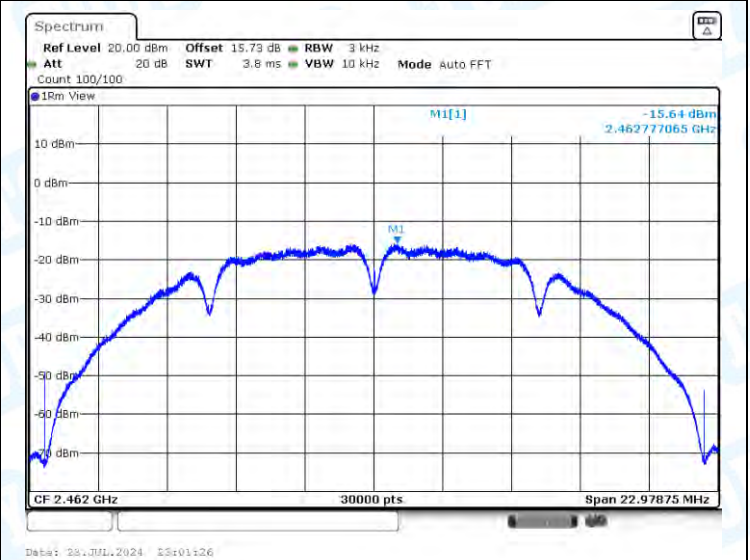
11B-Ant1-2437-PASS



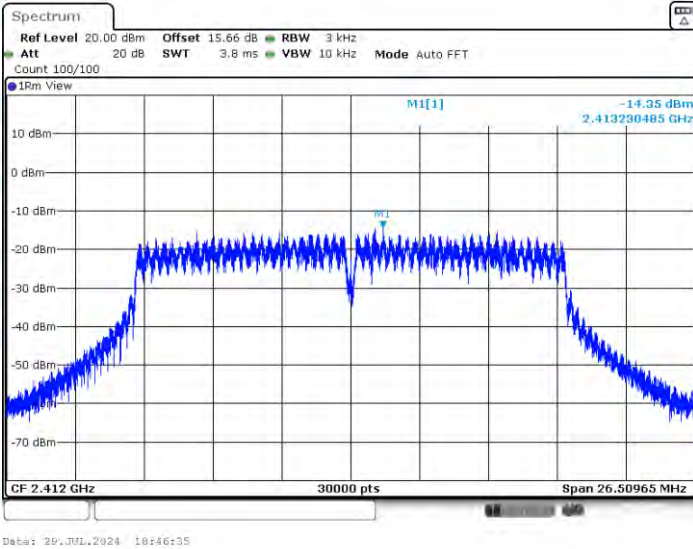
11B-Ant2-2437-PASS



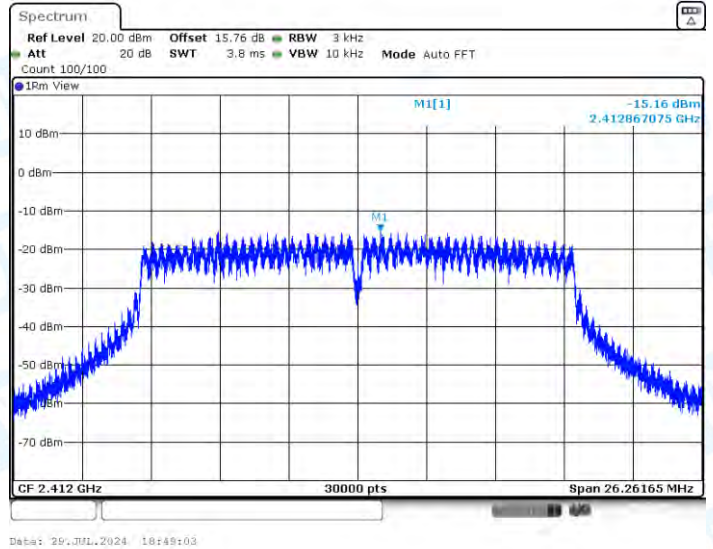
11B-Ant1-2462-PASS



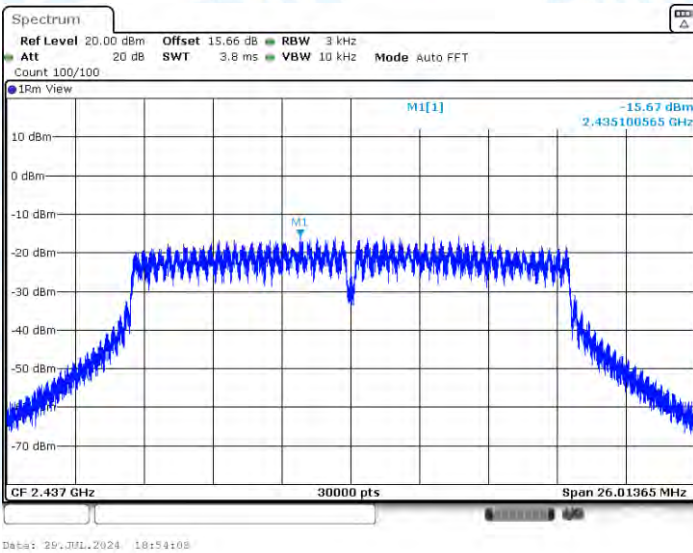
11B-Ant2-2462-PASS



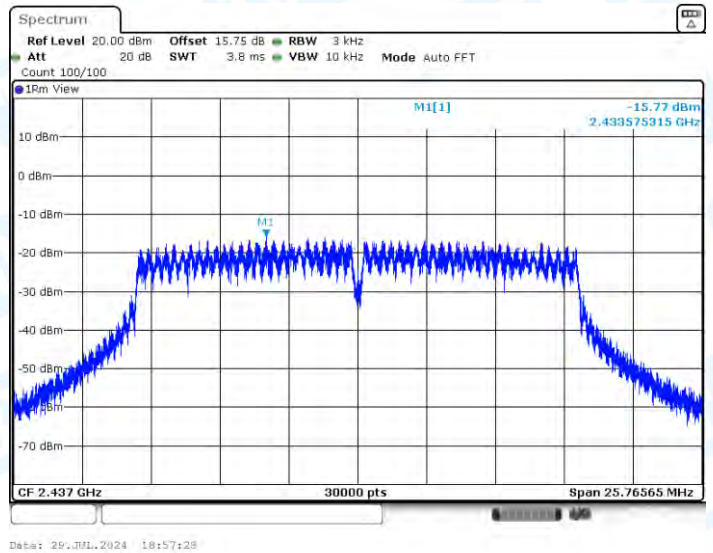
11G-Ant1-2412-PASS



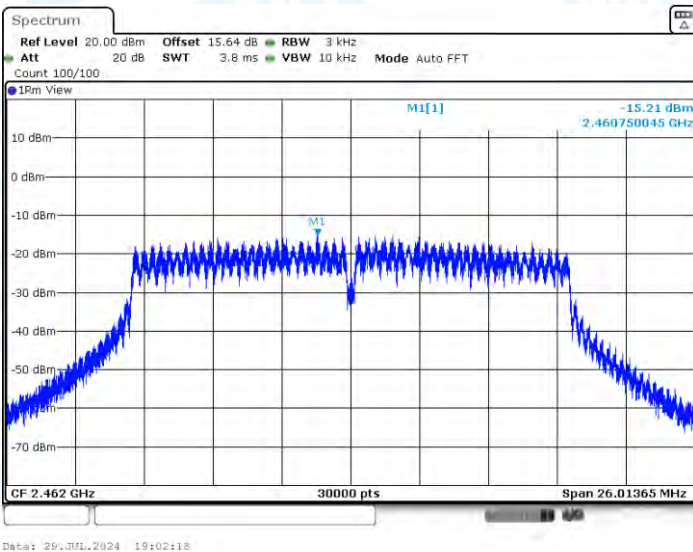
11G-Ant2-2412-PASS



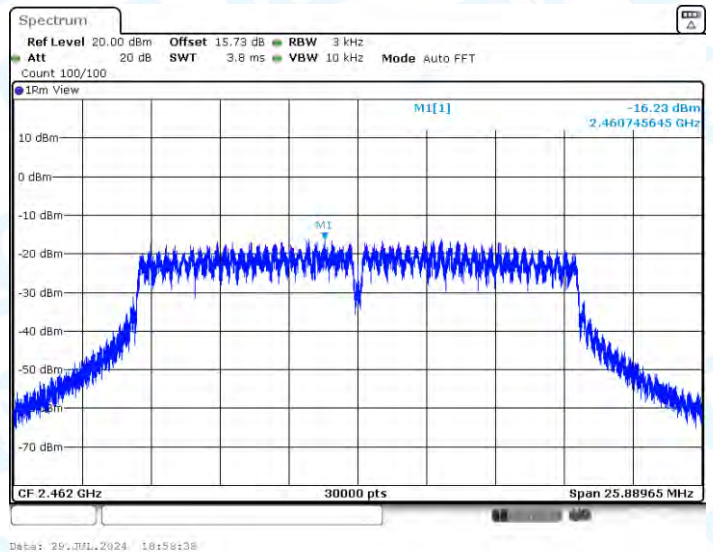
11G-Ant1-2437-PASS



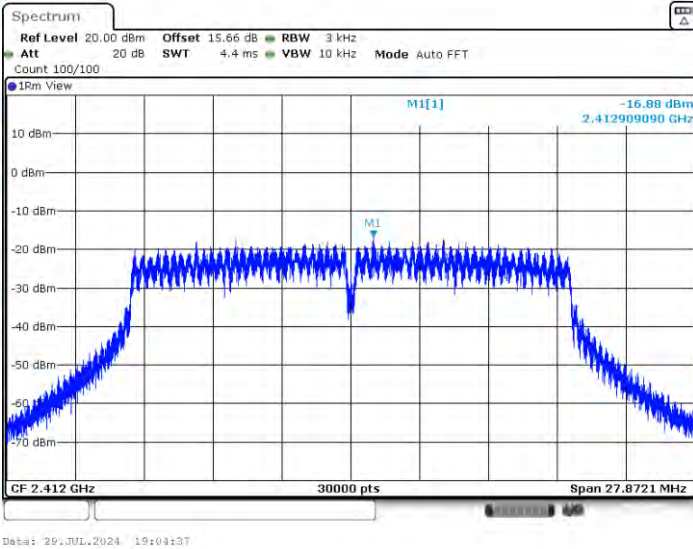
11G-Ant2-2437-PASS



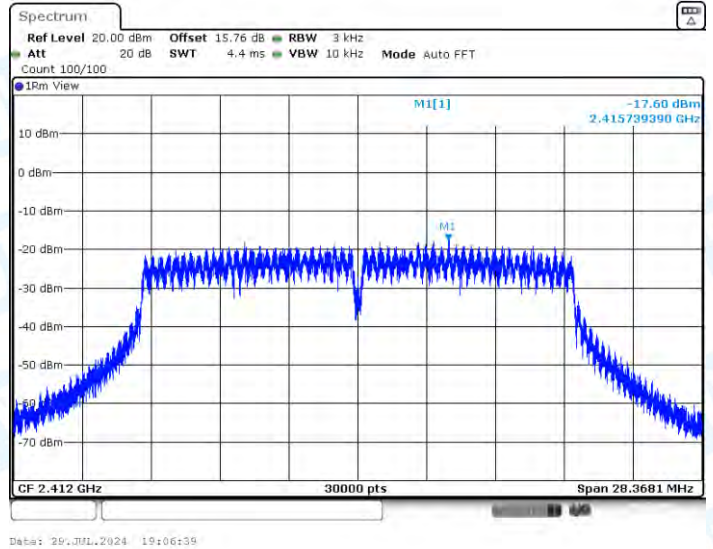
11G-Ant1-2462-PASS



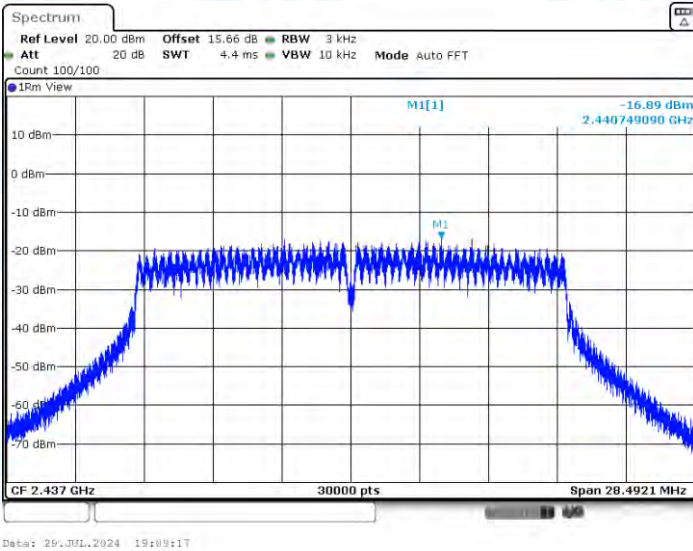
11G-Ant2-2462-PASS



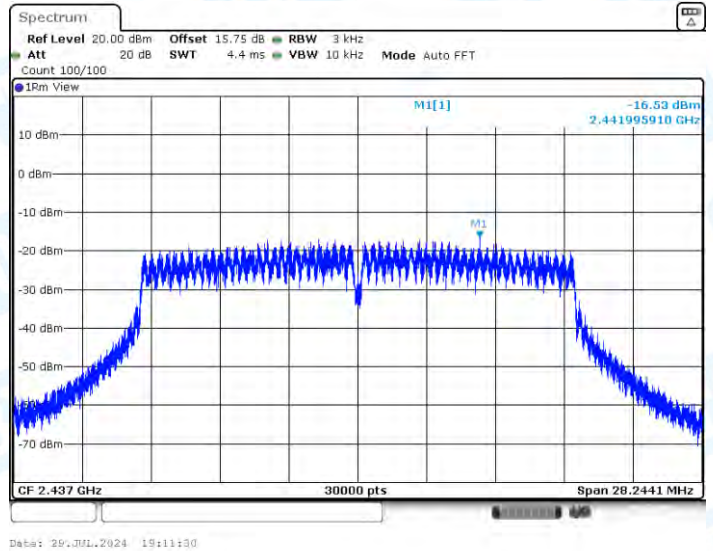
11N20MIMO-Ant1-2412-PASS



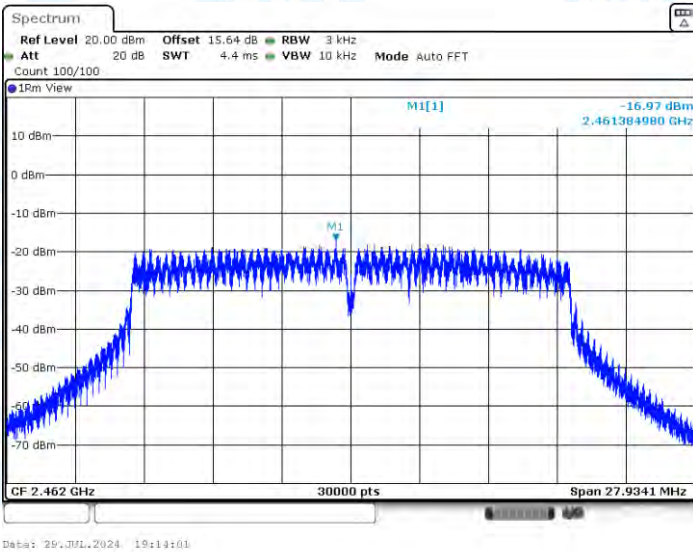
11N20MIMO-Ant2-2412-PASS



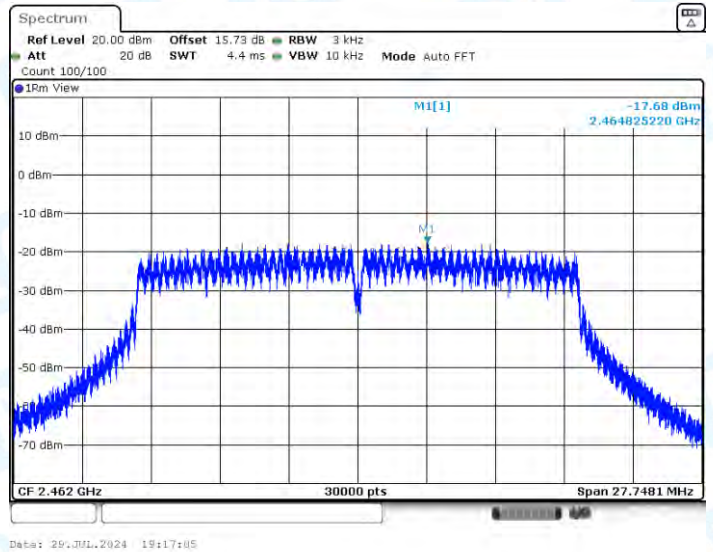
11N20MIMO-Ant1-2437-PASS



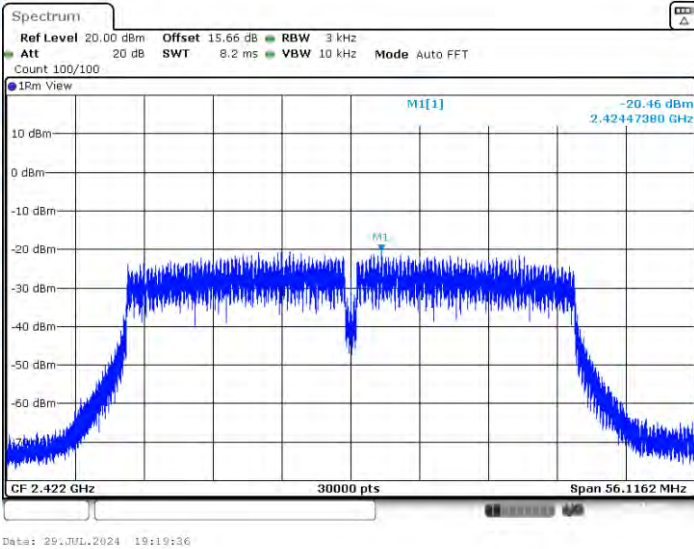
11N20MIMO-Ant2-2437-PASS



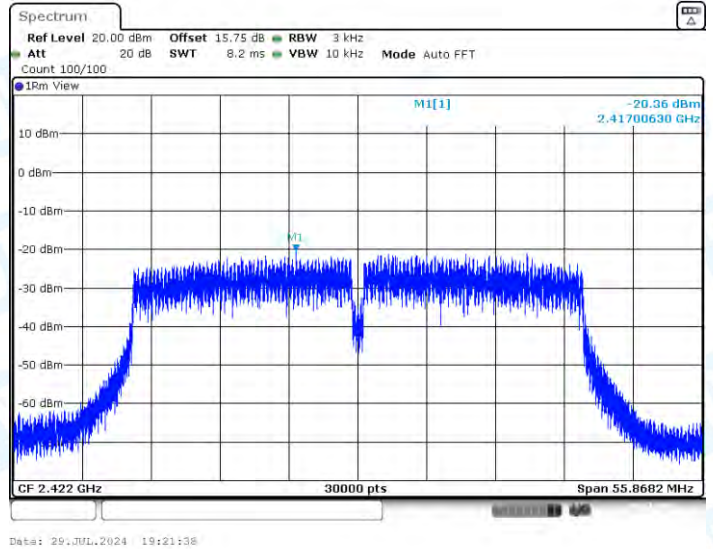
11N20MIMO-Ant1-2462-PASS



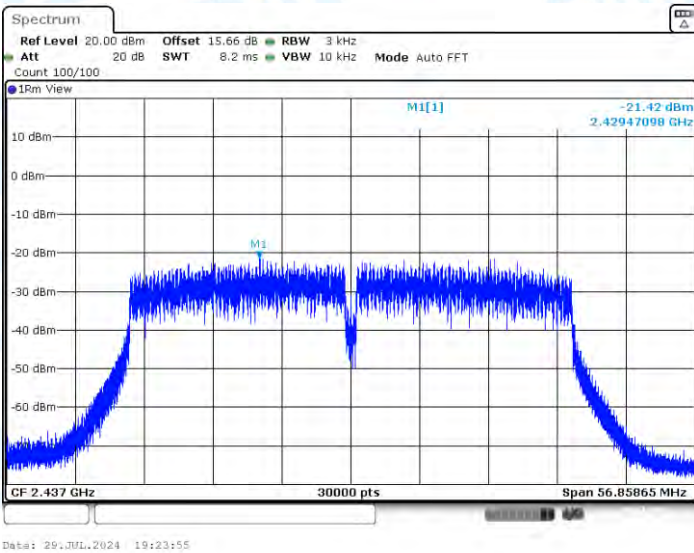
11N20MIMO-Ant2-2462-PASS



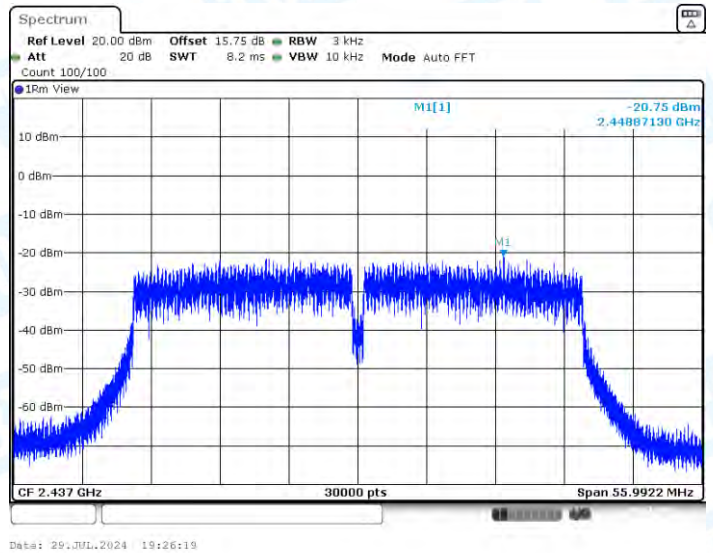
11N40MIMO-Ant1-2422-PASS



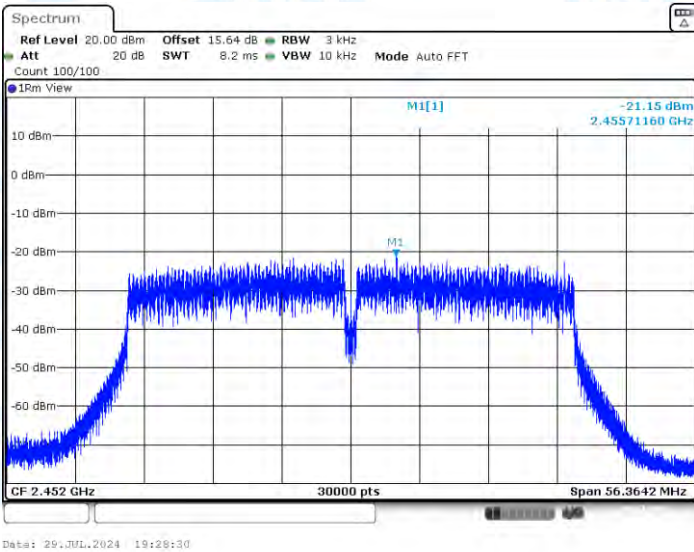
11N40MIMO-Ant2-2422-PASS



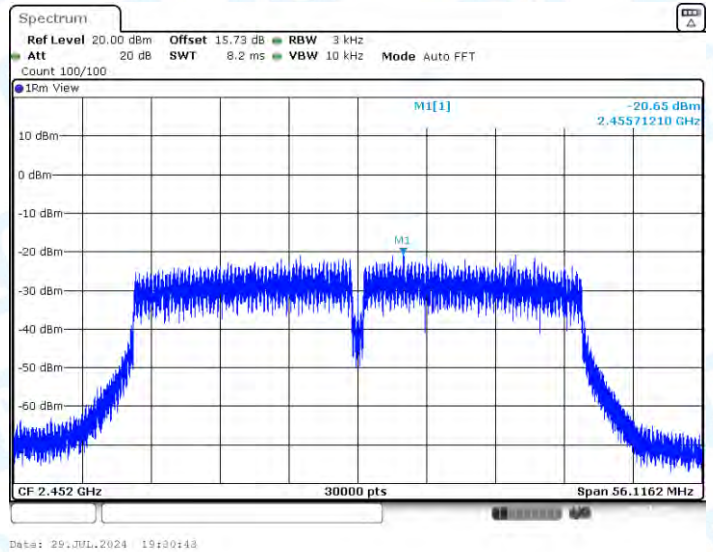
11N40MIMO-Ant1-2437-PASS



11N40MIMO-Ant2-2437-PASS



11N40MIMO-Ant1-2452-PASS



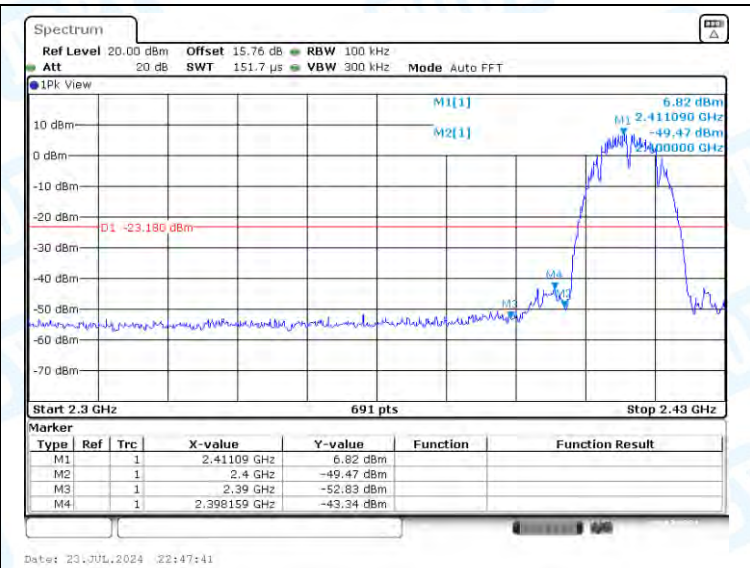
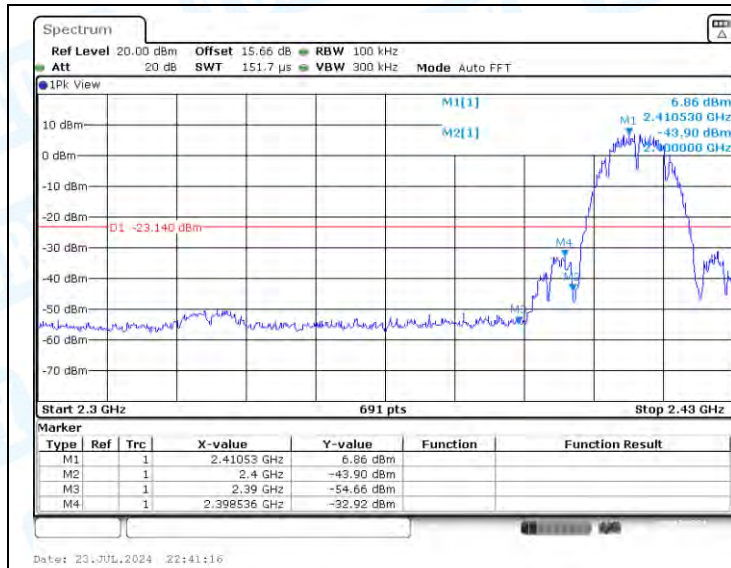
11N40MIMO-Ant2-2452-PASS

5: Band edge measurements

5.1 Test Result

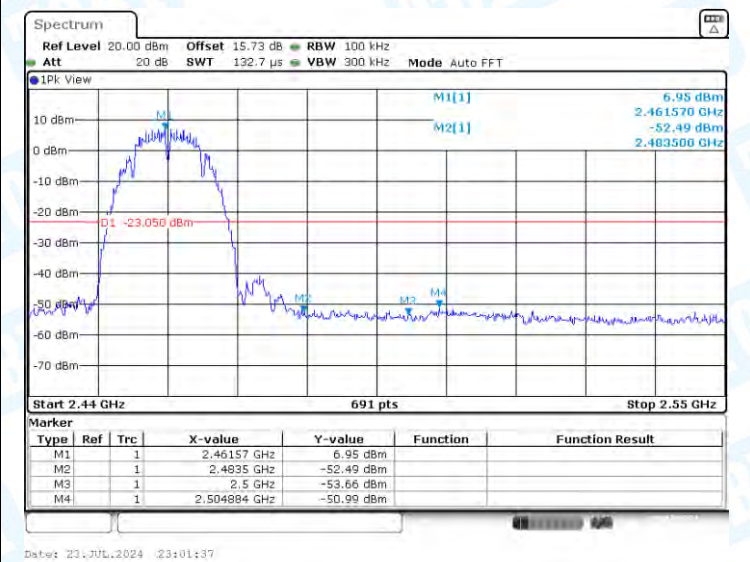
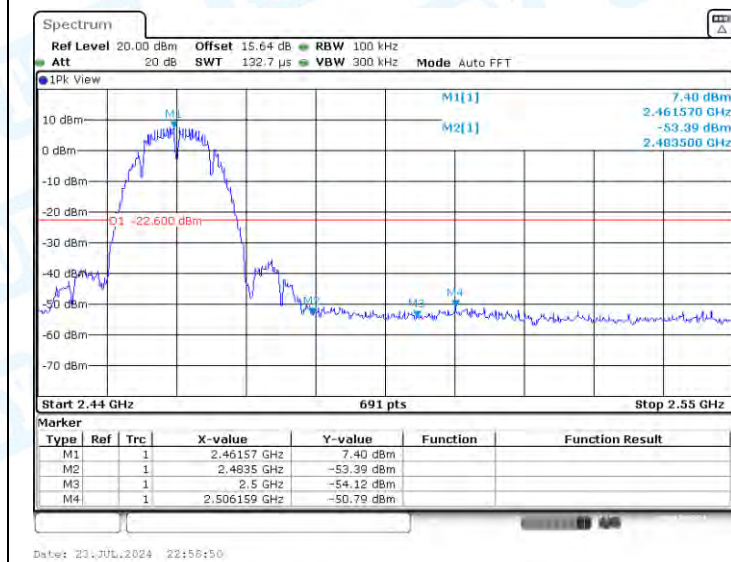
TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.86	-32.92	≤-23.14	PASS
11B	Ant2	Low	2412	6.82	-43.34	≤-23.18	PASS
11B	Ant1	High	2462	7.40	-50.79	≤-22.6	PASS
11B	Ant2	High	2462	6.95	-50.99	≤-23.05	PASS
11G	Ant1	Low	2412	4.37	-34.48	≤-25.63	PASS
11G	Ant2	Low	2412	4.82	-32.37	≤-25.18	PASS
11G	Ant1	High	2462	6.05	-35.95	≤-23.95	PASS
11G	Ant2	High	2462	4.45	-41.06	≤-25.55	PASS
11N20MIMO	Ant1	Low	2412	3.13	-35.59	≤-26.87	PASS
11N20MIMO	Ant2	Low	2412	2.87	-34.43	≤-27.13	PASS
11N20MIMO	Ant1	High	2462	1.70	-48.3	≤-28.3	PASS
11N20MIMO	Ant2	High	2462	2.68	-45.5	≤-27.32	PASS
11N40MIMO	Ant1	Low	2422	-1.54	-41.88	≤-31.54	PASS
11N40MIMO	Ant2	Low	2422	-0.65	-38.19	≤-30.65	PASS
11N40MIMO	Ant1	High	2452	-1.73	-49.46	≤-31.73	PASS
11N40MIMO	Ant2	High	2452	-1.12	-44.55	≤-31.12	PASS

5.2 Test Graphs



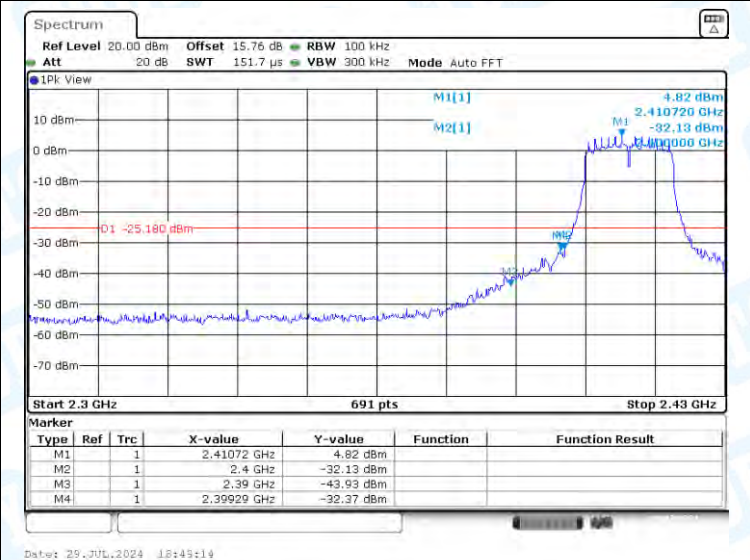
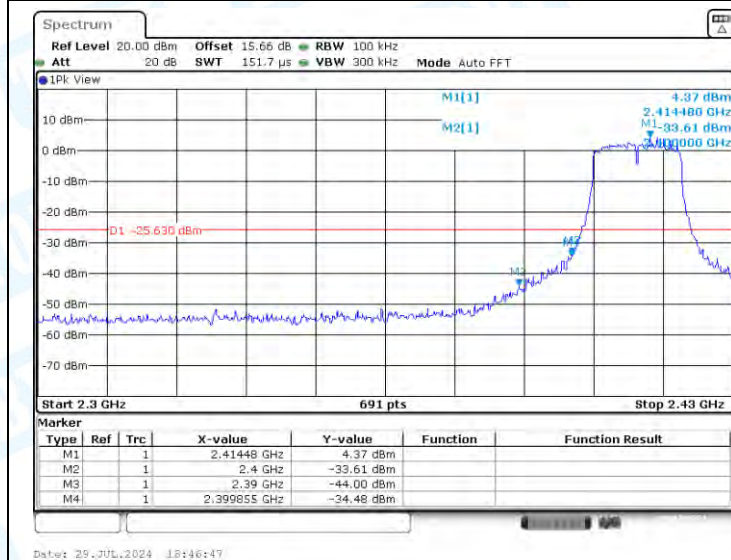
11B-Ant1-2412-PASS

11B-Ant2-2412-PASS



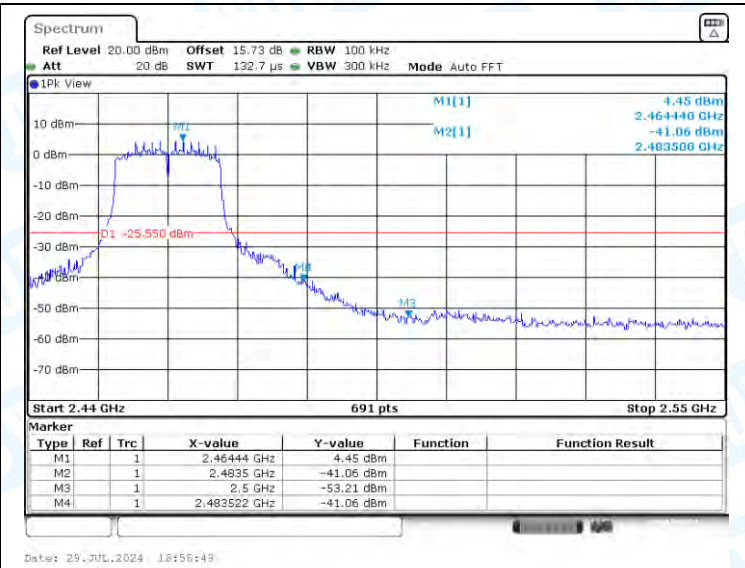
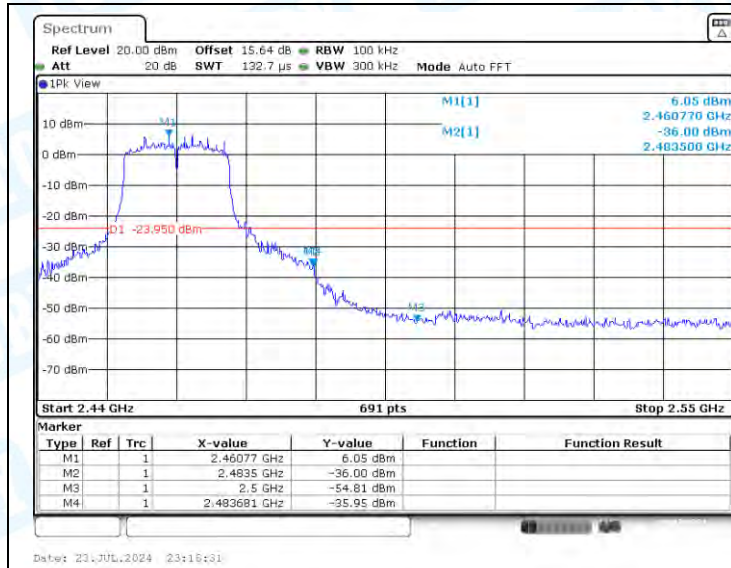
11B-Ant1-2462-PASS

11B-Ant2-2462-PASS

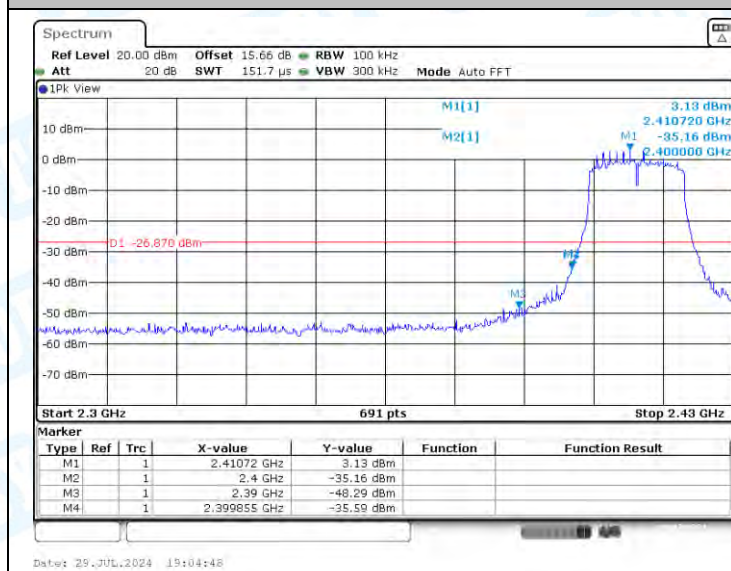


11G-Ant1-2412-PASS

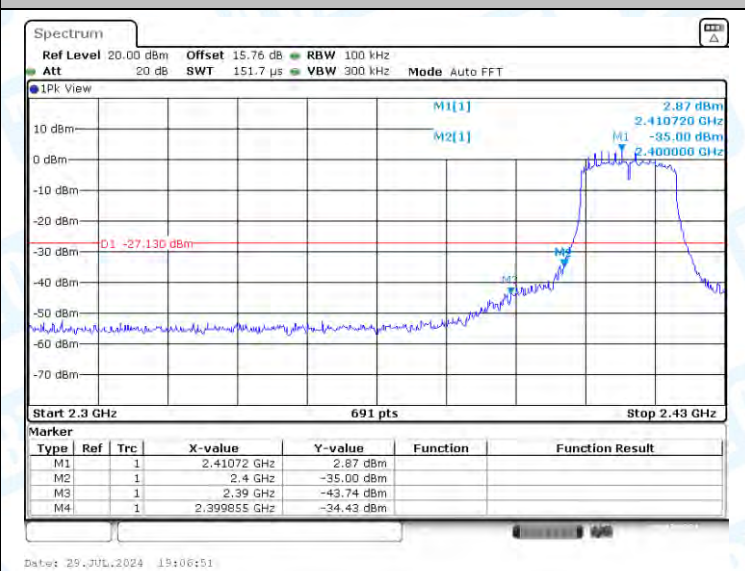
11G-Ant2-2412-PASS



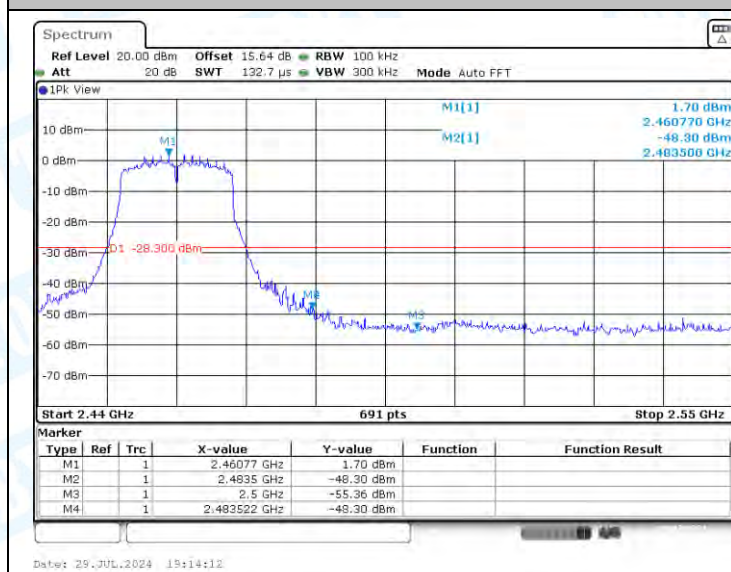
11G-Ant1-2462-PASS



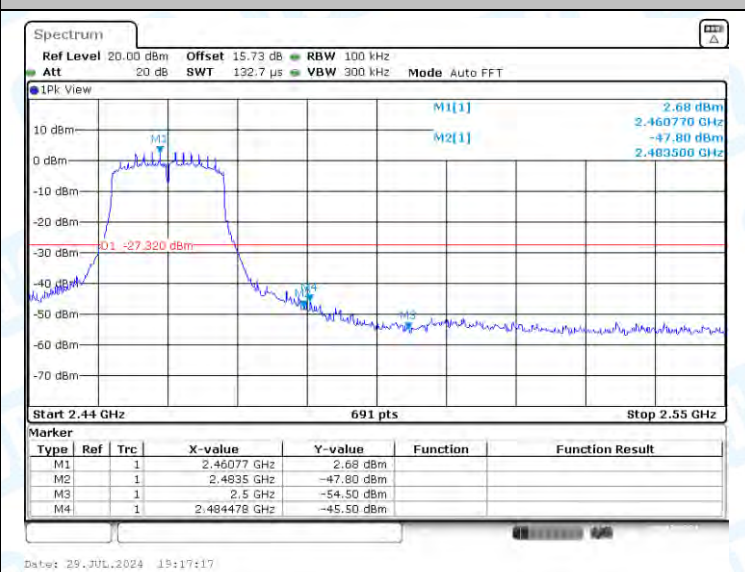
11G-Ant2-2462-PASS



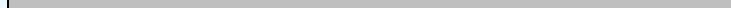
11N20MIMO-Ant1-2412-PASS



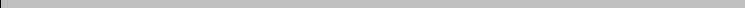
11N20MIMO-Ant2-2412-PASS

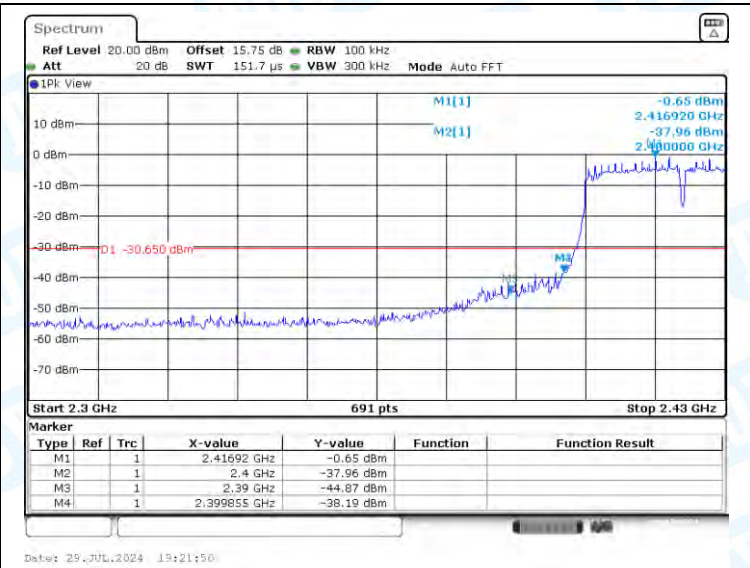
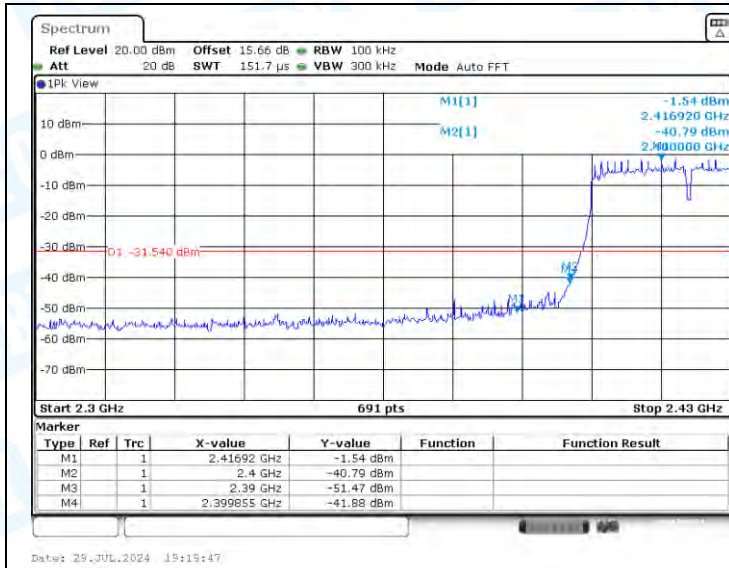


11N20MIMO-Ant1-2462-PASS

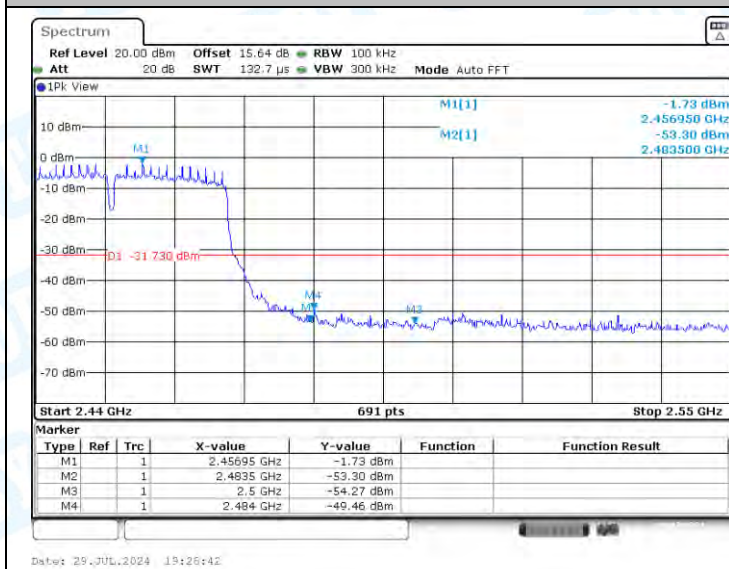


11N20MIMO-Ant2-2462-PASS

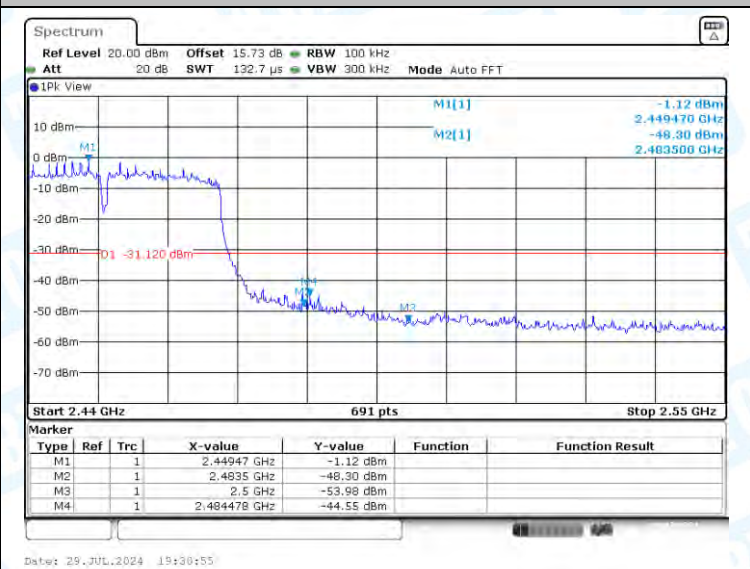




11N40MIMO-Ant1-2422-PASS



11N40MIMO-Ant2-2422-PASS



11N40MIMO-Ant1-2452-PASS

11N40MIMO-Ant2-2452-PASS

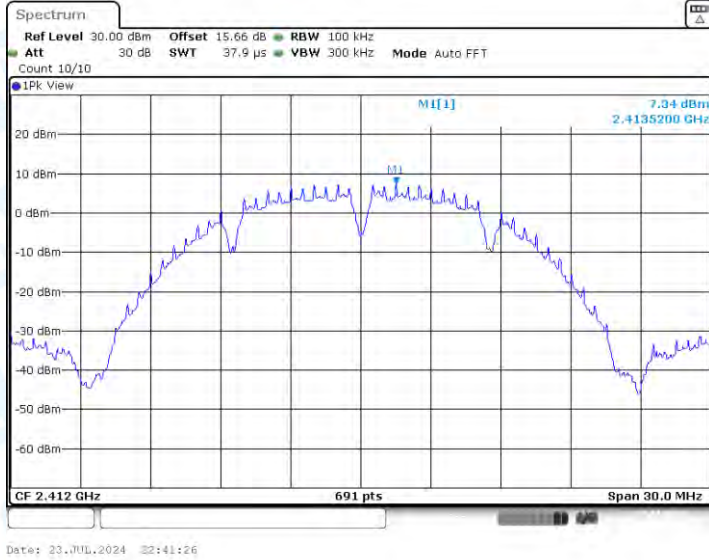
6: Conducted Spurious Emission

6.1 Test Result

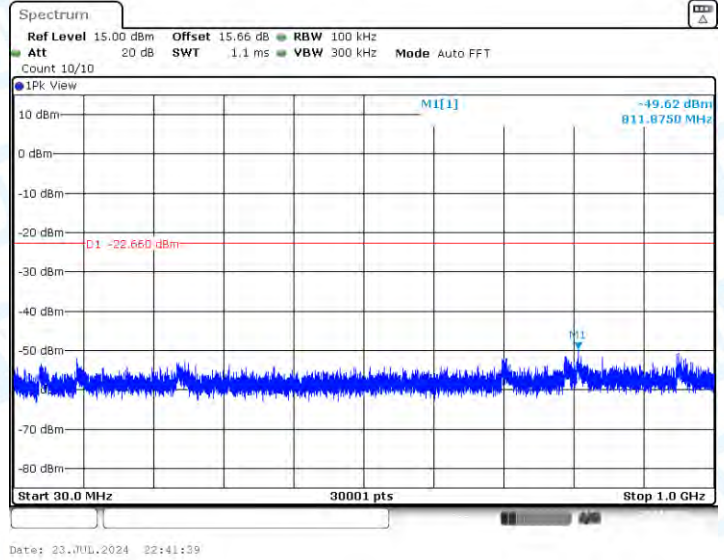
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	7.34	7.34	---	PASS
11B	Ant1	2412	30~1000	7.34	-49.62	≤-22.66	PASS
11B	Ant1	2412	1000~26500	7.34	-45.76	≤-22.66	PASS
11B	Ant2	2412	0~Reference	6.19	6.19	---	PASS
11B	Ant2	2412	30~1000	6.19	-50.87	≤-23.81	PASS
11B	Ant2	2412	1000~26500	6.19	-44.96	≤-23.81	PASS
11B	Ant1	2437	0~Reference	7.92	7.92	---	PASS
11B	Ant1	2437	30~1000	7.92	-50.78	≤-22.08	PASS
11B	Ant1	2437	1000~26500	7.92	-45.22	≤-22.08	PASS
11B	Ant2	2437	0~Reference	7.30	7.30	---	PASS
11B	Ant2	2437	30~1000	7.30	-51.03	≤-22.7	PASS
11B	Ant2	2437	1000~26500	7.30	-45.97	≤-22.7	PASS
11B	Ant1	2462	0~Reference	7.91	7.91	---	PASS
11B	Ant1	2462	30~1000	7.91	-50.78	≤-22.09	PASS
11B	Ant1	2462	1000~26500	7.91	-45.57	≤-22.09	PASS
11B	Ant2	2462	0~Reference	7.05	7.05	---	PASS
11B	Ant2	2462	30~1000	7.05	-50.9	≤-22.95	PASS
11B	Ant2	2462	1000~26500	7.05	-46.13	≤-22.95	PASS
11G	Ant1	2412	0~Reference	5.67	5.67	---	PASS
11G	Ant1	2412	30~1000	5.67	-50.75	≤-24.33	PASS
11G	Ant1	2412	1000~26500	5.67	-45.49	≤-24.33	PASS
11G	Ant2	2412	0~Reference	5.33	5.33	---	PASS
11G	Ant2	2412	30~1000	5.33	-50.46	≤-24.67	PASS
11G	Ant2	2412	1000~26500	5.33	-45.4	≤-24.67	PASS
11G	Ant1	2437	0~Reference	4.27	4.27	---	PASS
11G	Ant1	2437	30~1000	4.27	-51.05	≤-25.73	PASS
11G	Ant1	2437	1000~26500	4.27	-44.74	≤-25.73	PASS
11G	Ant2	2437	0~Reference	3.16	3.16	---	PASS
11G	Ant2	2437	30~1000	3.16	-51.31	≤-26.84	PASS
11G	Ant2	2437	1000~26500	3.16	-45.5	≤-26.84	PASS
11G	Ant1	2462	0~Reference	4.51	4.51	---	PASS
11G	Ant1	2462	30~1000	4.51	-51.59	≤-25.49	PASS
11G	Ant1	2462	1000~26500	4.51	-46.08	≤-25.49	PASS
11G	Ant2	2462	0~Reference	3.45	3.45	---	PASS
11G	Ant2	2462	30~1000	3.45	-50.97	≤-26.55	PASS
11G	Ant2	2462	1000~26500	3.45	-45.67	≤-26.55	PASS
11N20MIMO	Ant1	2412	0~Reference	3.44	3.44	---	PASS
11N20MIMO	Ant1	2412	30~1000	3.44	-49.98	≤-26.56	PASS
11N20MIMO	Ant1	2412	1000~26500	3.44	-45.6	≤-26.56	PASS
11N20MIMO	Ant2	2412	0~Reference	1.60	1.60	---	PASS
11N20MIMO	Ant2	2412	30~1000	1.60	-50.47	≤-28.4	PASS
11N20MIMO	Ant2	2412	1000~26500	1.60	-45.5	≤-28.4	PASS
11N20MIMO	Ant1	2437	0~Reference	3.42	3.42	---	PASS
11N20MIMO	Ant1	2437	30~1000	3.42	-51.74	≤-26.58	PASS
11N20MIMO	Ant1	2437	1000~26500	3.42	-45.52	≤-26.58	PASS
11N20MIMO	Ant2	2437	0~Reference	3.63	3.63	---	PASS
11N20MIMO	Ant2	2437	30~1000	3.63	-51.5	≤-26.37	PASS
11N20MIMO	Ant2	2437	1000~26500	3.63	-44.5	≤-26.37	PASS
11N20MIMO	Ant1	2462	0~Reference	3.27	3.27	---	PASS
11N20MIMO	Ant1	2462	30~1000	3.27	-50.55	≤-26.73	PASS
11N20MIMO	Ant1	2462	1000~26500	3.27	-45.44	≤-26.73	PASS
11N20MIMO	Ant2	2462	0~Reference	3.25	3.25	---	PASS

11N20MIMO	Ant2	2462	30~1000	3.25	-50.97	≤-26.75	PASS
11N20MIMO	Ant2	2462	1000~26500	3.25	-45.19	≤-26.75	PASS
11N40MIMO	Ant1	2422	0~Reference	-0.39	-0.39	---	PASS
11N40MIMO	Ant1	2422	30~1000	-0.39	-50.64	≤-30.39	PASS
11N40MIMO	Ant1	2422	1000~26500	-0.39	-45.34	≤-30.39	PASS
11N40MIMO	Ant2	2422	0~Reference	-0.46	-0.46	---	PASS
11N40MIMO	Ant2	2422	30~1000	-0.46	-50.9	≤-30.46	PASS
11N40MIMO	Ant2	2422	1000~26500	-0.46	-45.79	≤-30.46	PASS
11N40MIMO	Ant1	2437	0~Reference	-1.33	-1.33	---	PASS
11N40MIMO	Ant1	2437	30~1000	-1.33	-51.19	≤-31.33	PASS
11N40MIMO	Ant1	2437	1000~26500	-1.33	-45.75	≤-31.33	PASS
11N40MIMO	Ant2	2437	0~Reference	-1.48	-1.48	---	PASS
11N40MIMO	Ant2	2437	30~1000	-1.48	-50.27	≤-31.48	PASS
11N40MIMO	Ant2	2437	1000~26500	-1.48	-45.6	≤-31.48	PASS
11N40MIMO	Ant1	2452	0~Reference	-1.53	-1.53	---	PASS
11N40MIMO	Ant1	2452	30~1000	-1.53	-51	≤-31.53	PASS
11N40MIMO	Ant1	2452	1000~26500	-1.53	-45.52	≤-31.53	PASS
11N40MIMO	Ant2	2452	0~Reference	-0.88	-0.88	---	PASS
11N40MIMO	Ant2	2452	30~1000	-0.88	-51.15	≤-30.88	PASS
11N40MIMO	Ant2	2452	1000~26500	-0.88	-45.84	≤-30.88	PASS

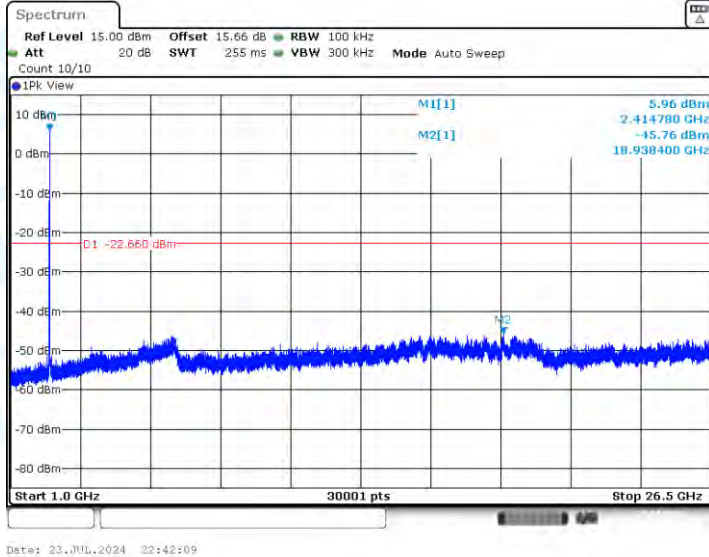
6.2 Test Graphs



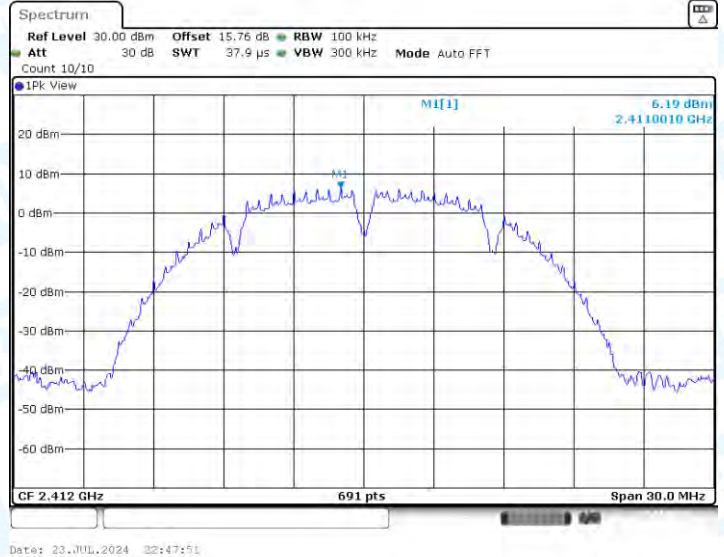
11B-Ant1-2412-0~Reference-PASS



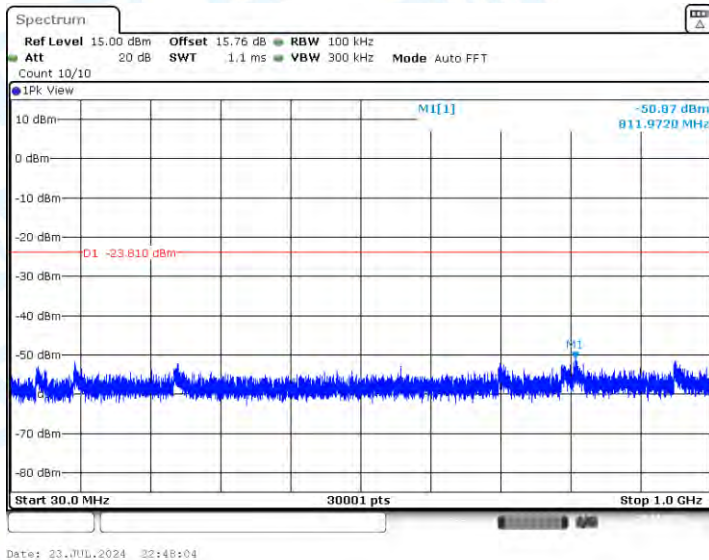
11B-Ant1-2412-30~1000-PASS



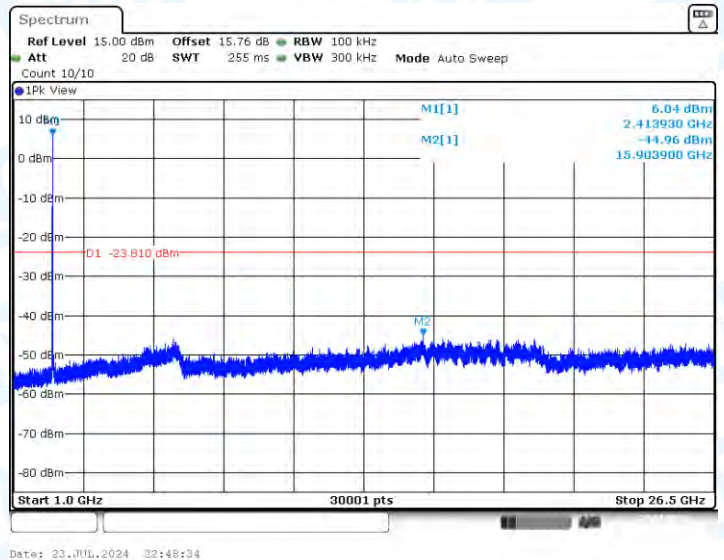
11B-Ant1-2412-1000~26500-PASS



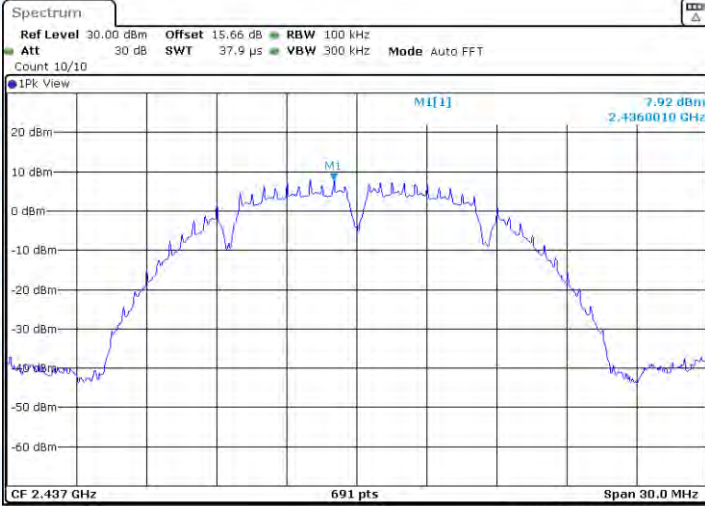
11B-Ant2-2412-0~Reference-PASS



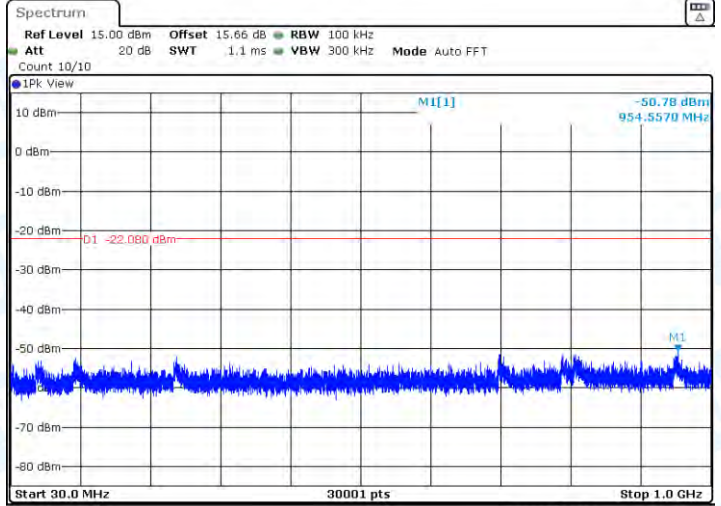
11B-Ant2-2412-30~1000-PASS



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



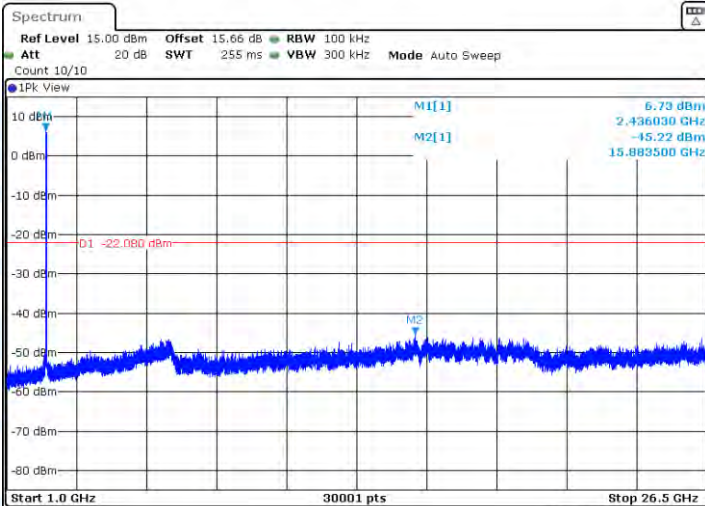
Date: 23.JUL.2024 22:53:12



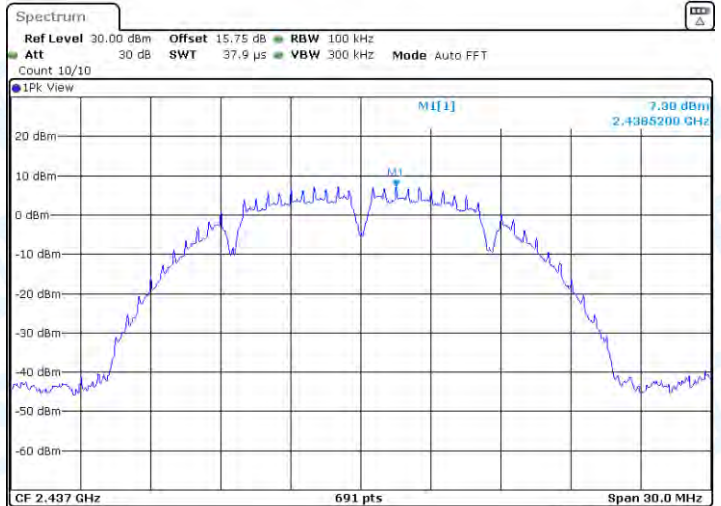
Date: 23.JUL.2024 22:53:25

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

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



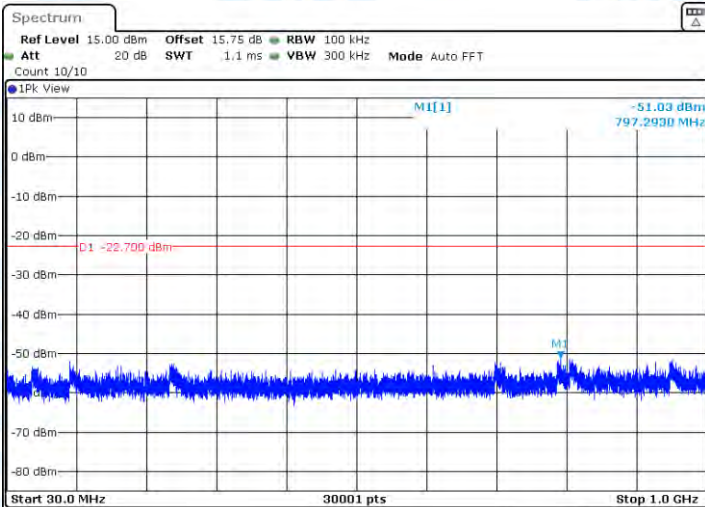
Date: 23.JUL.2024 22:53:55



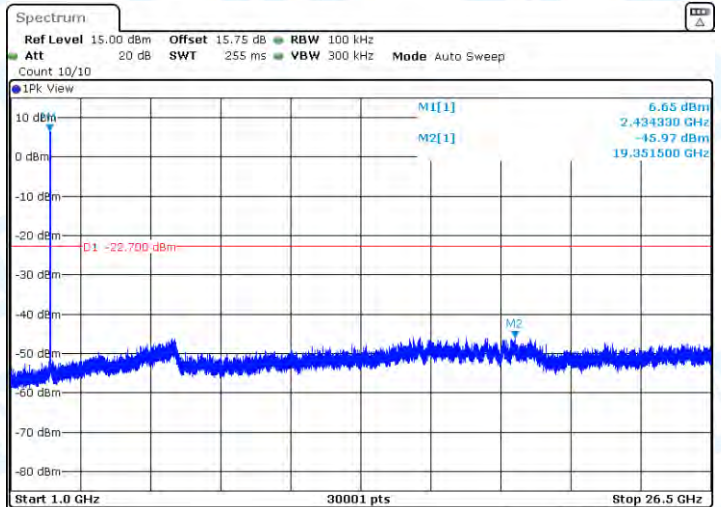
Date: 23.JUL.2024 22:55:25

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

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



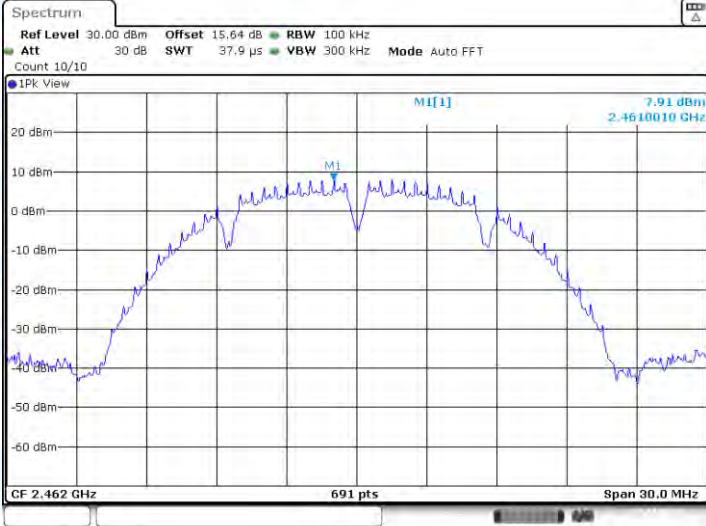
Date: 23.JUL.2024 22:55:38



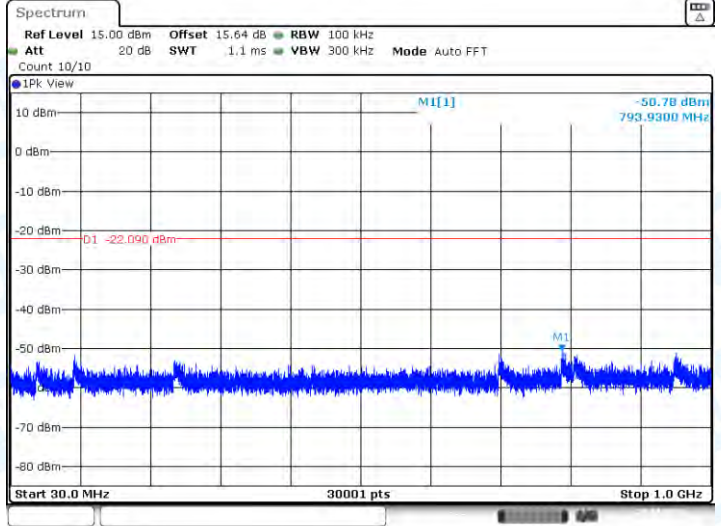
Date: 23.JUL.2024 22:56:08

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

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



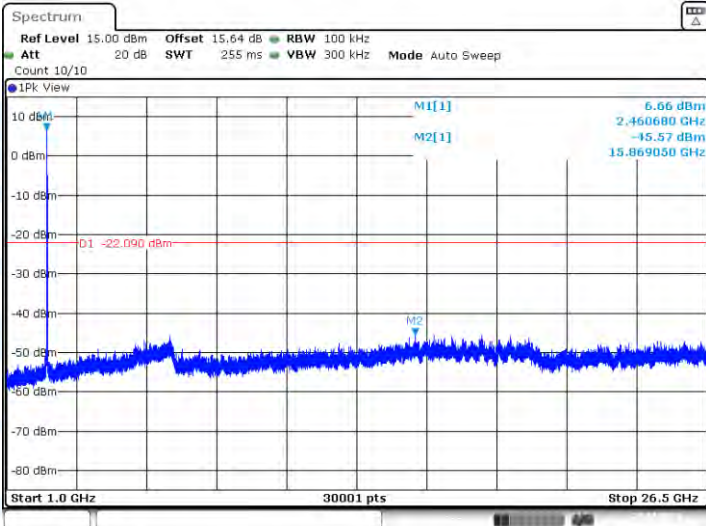
Date: 23.JUL.2024 22:59:00



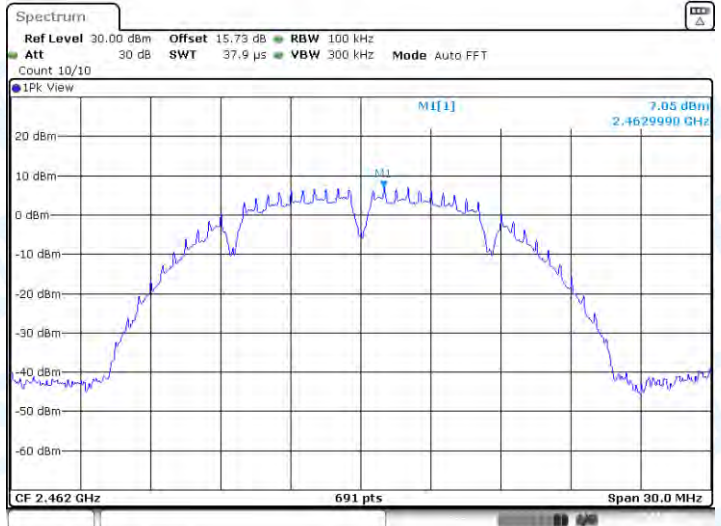
Date: 23.JUL.2024 22:59:13

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

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



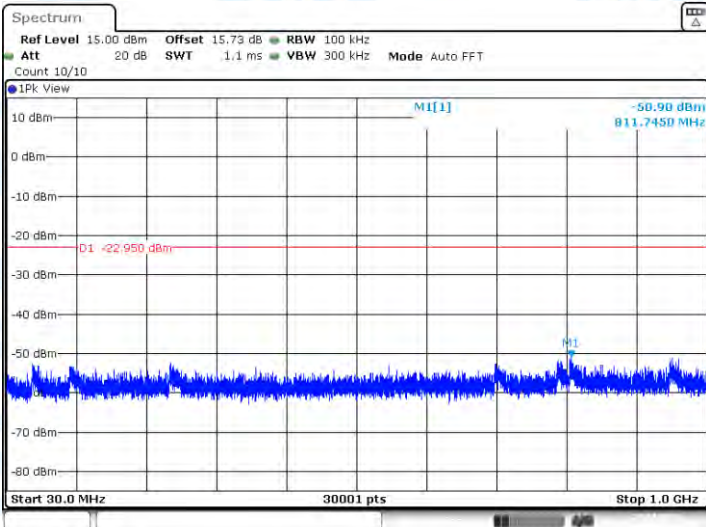
Date: 23.JUL.2024 22:59:43



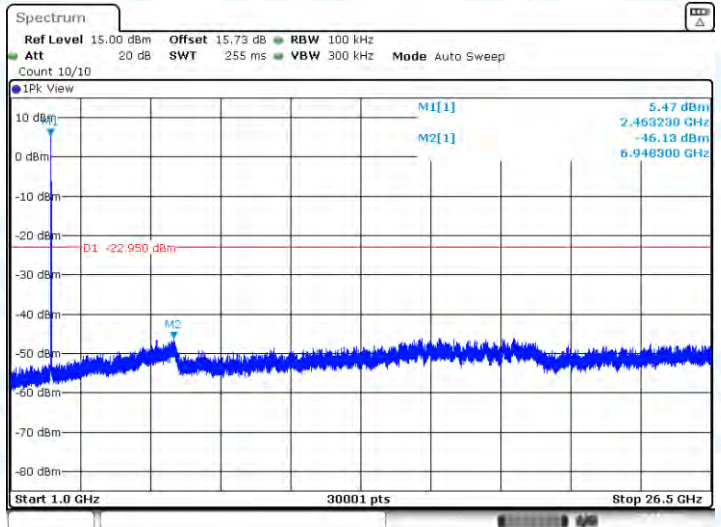
Date: 23.JUL.2024 23:01:47

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

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



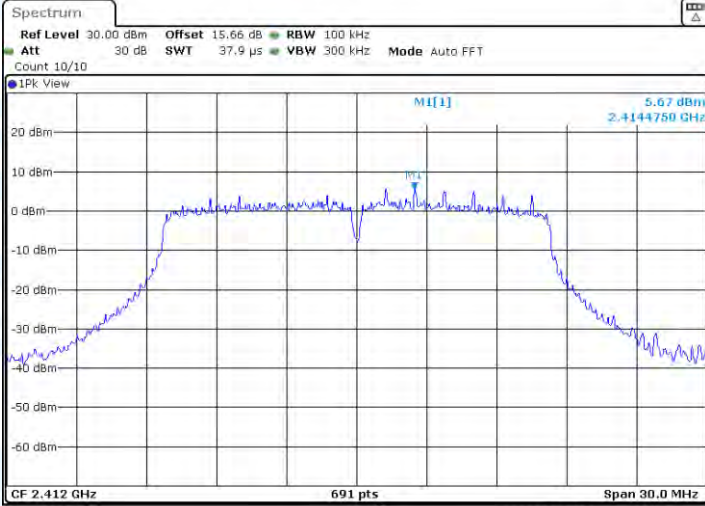
Date: 23.JUL.2024 23:02:00



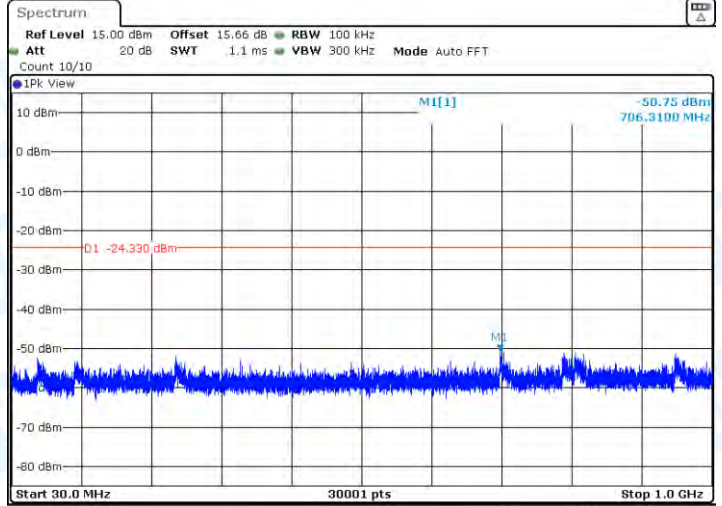
Date: 23.JUL.2024 23:02:30

11B-Ant2-2462-30~1000-PASS

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

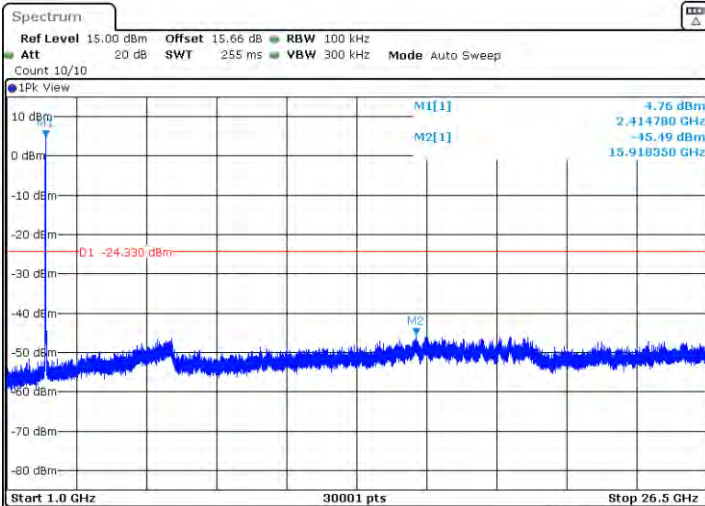


Date: 29.JUL.2024 18:46:56



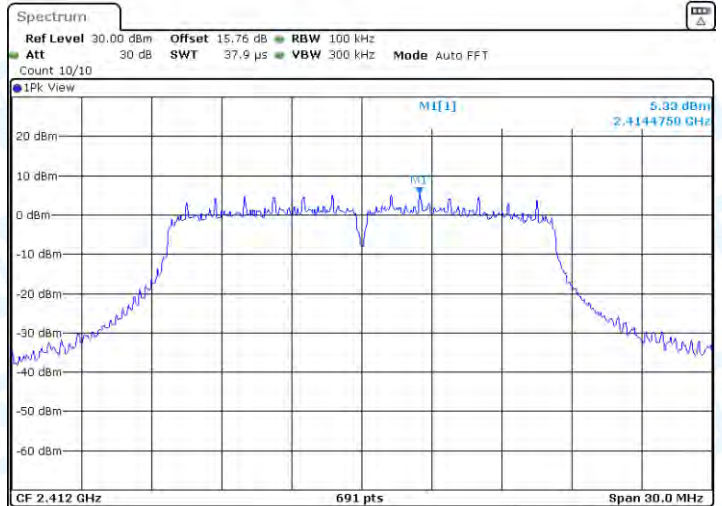
Date: 29.JUL.2024 18:47:09

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



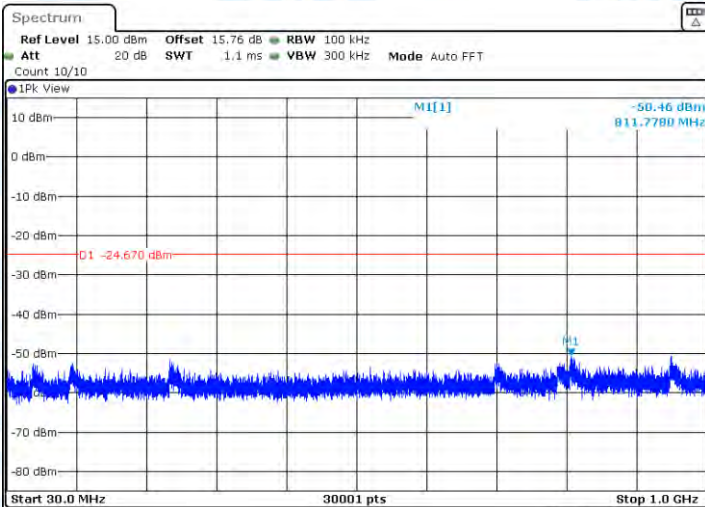
Date: 29.JUL.2024 18:47:39

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



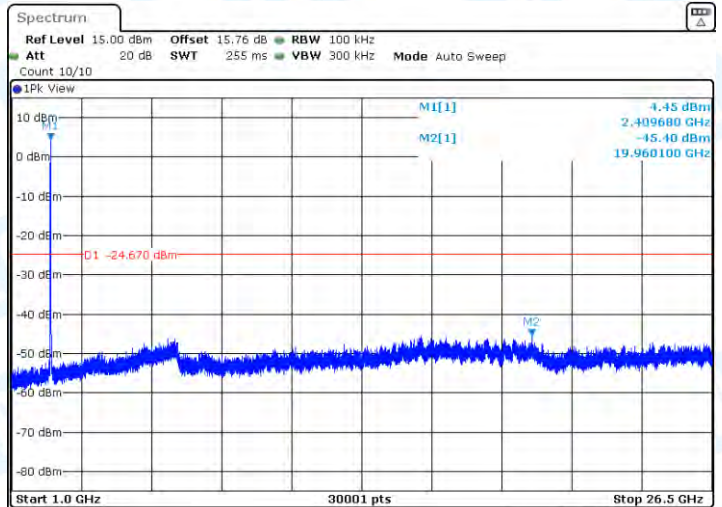
Date: 29.JUL.2024 18:49:24

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



Date: 29.JUL.2024 18:49:37

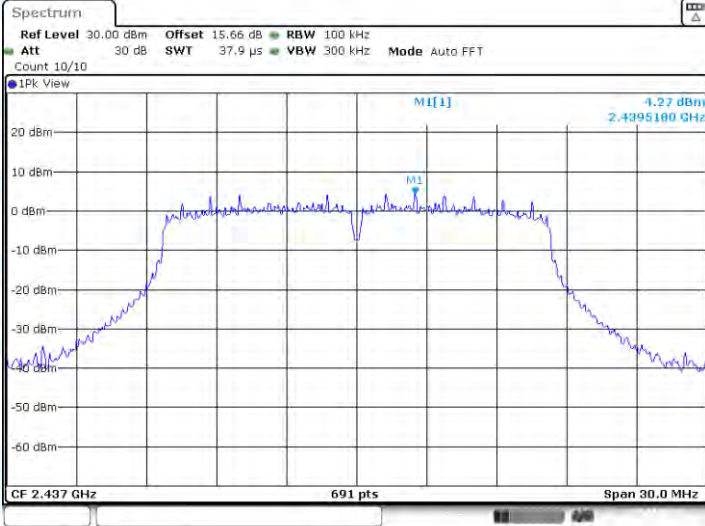
11G-Ant2-2412-0~Reference-PASS



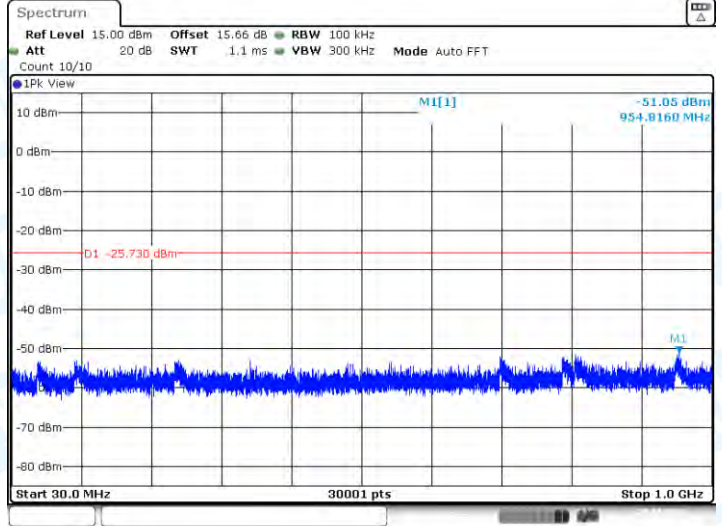
Date: 29.JUL.2024 18:50:07

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

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



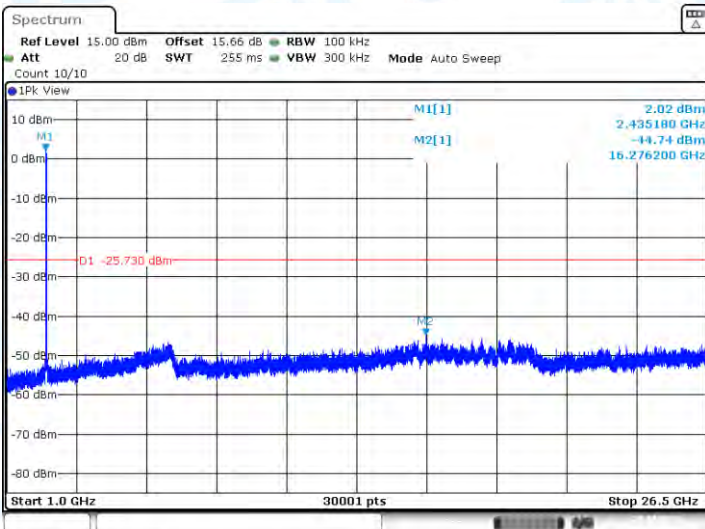
Date: 29.JUL.2024 18:54:17



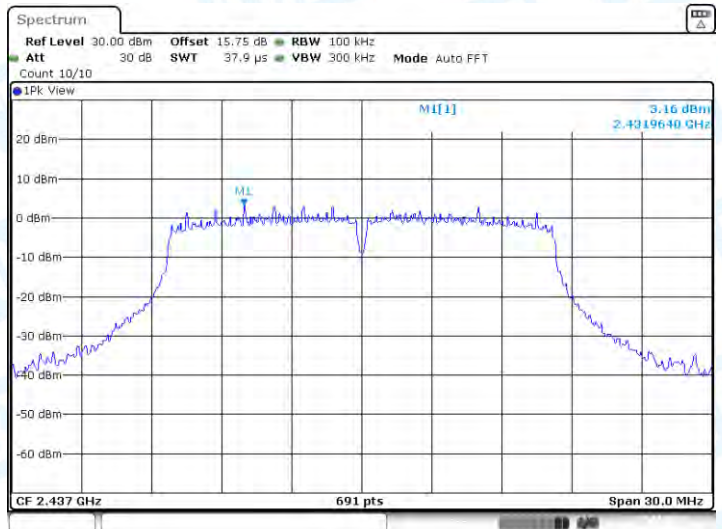
Date: 29.JUL.2024 18:54:30

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

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



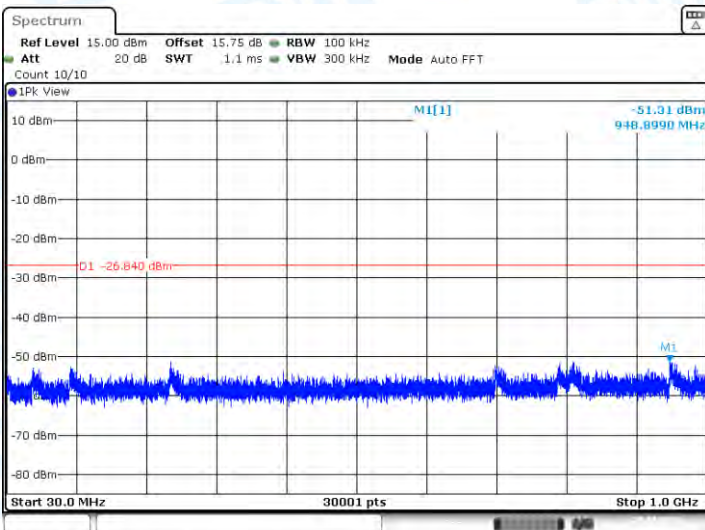
Date: 29.JUL.2024 18:55:00



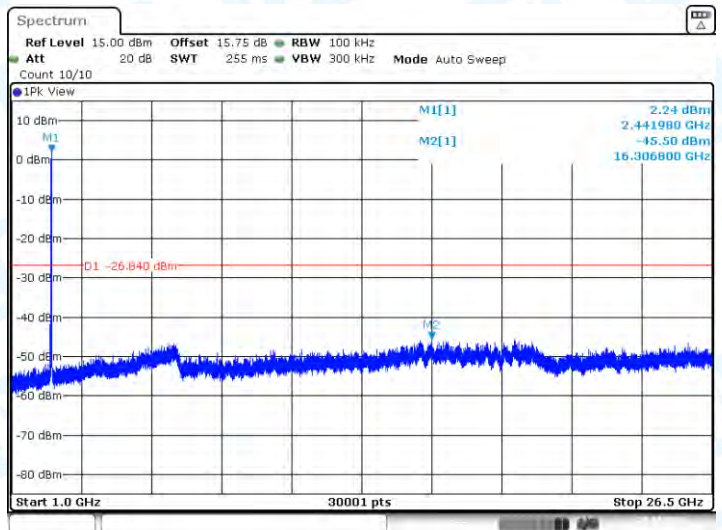
Date: 29.JUL.2024 18:56:10

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

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



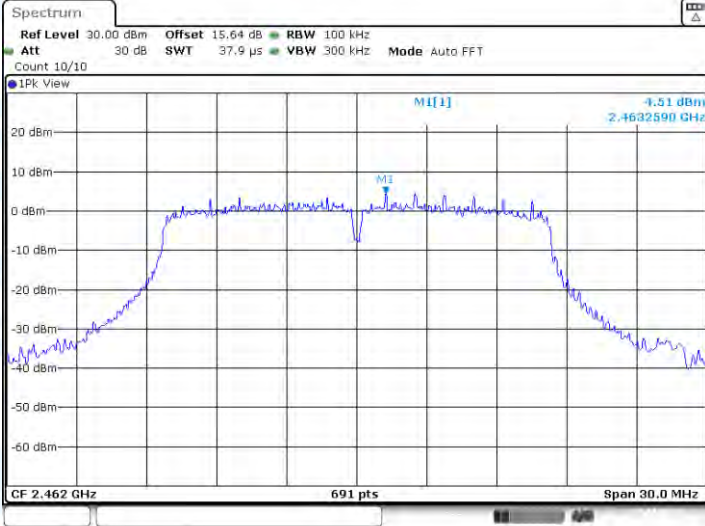
Date: 29.JUL.2024 18:56:23



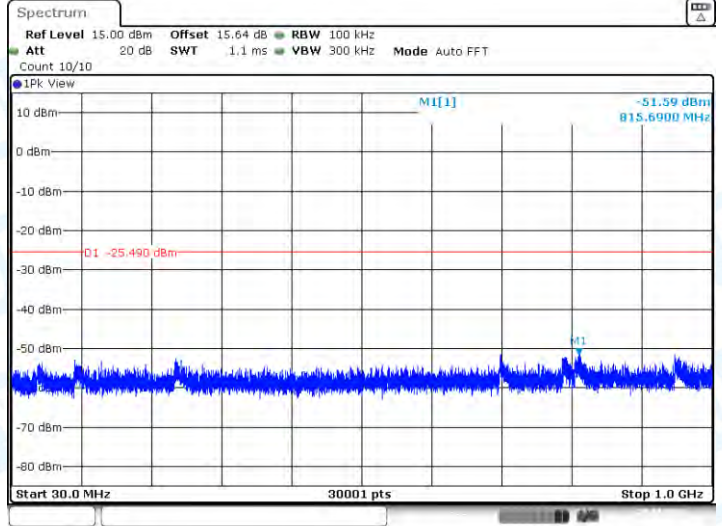
Date: 29.JUL.2024 18:56:53

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

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



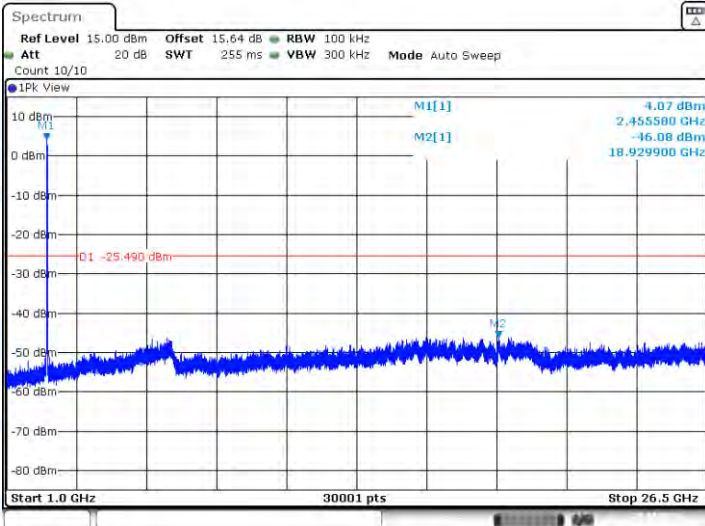
Date: 29.JUL.2024 19:02:27



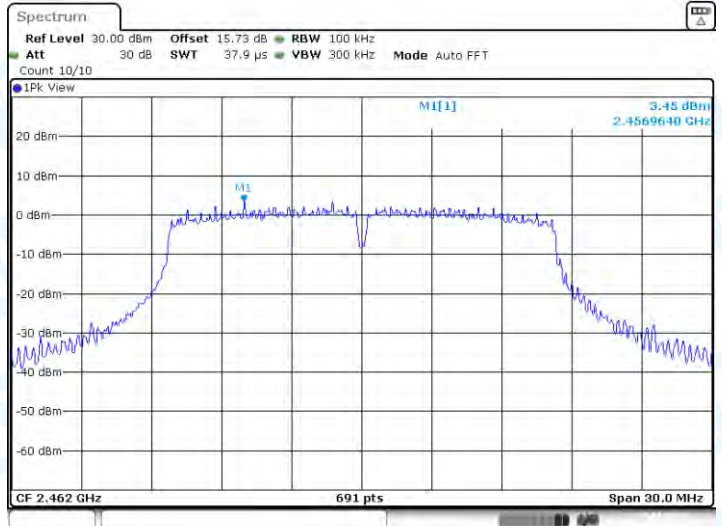
Date: 29.JUL.2024 19:02:40

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

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



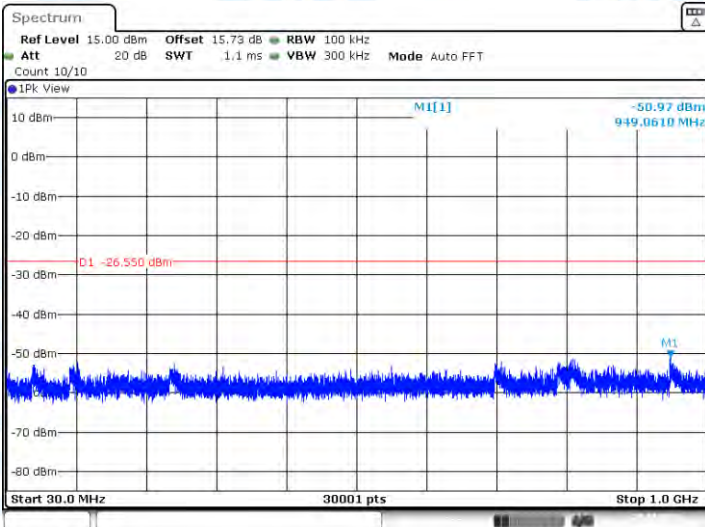
Date: 29.JUL.2024 19:03:10



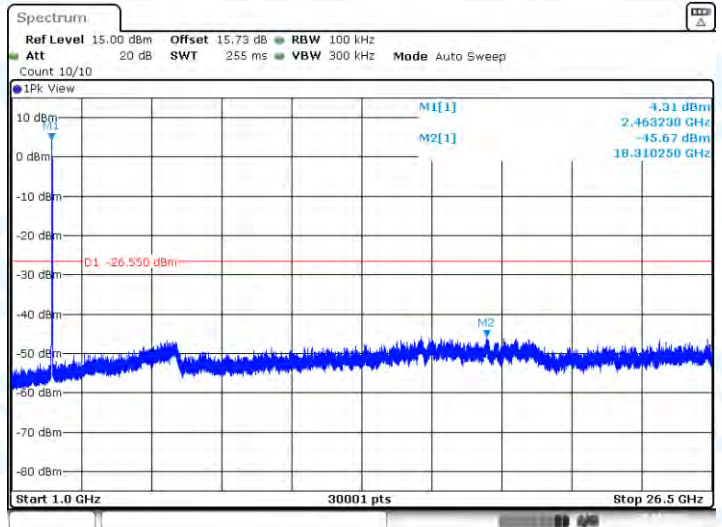
Date: 29.JUL.2024 18:58:59

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

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



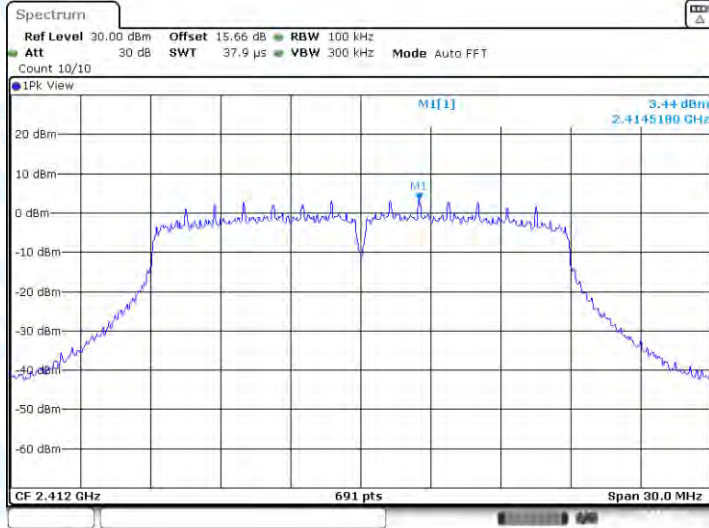
Date: 29.JUL.2024 18:59:11



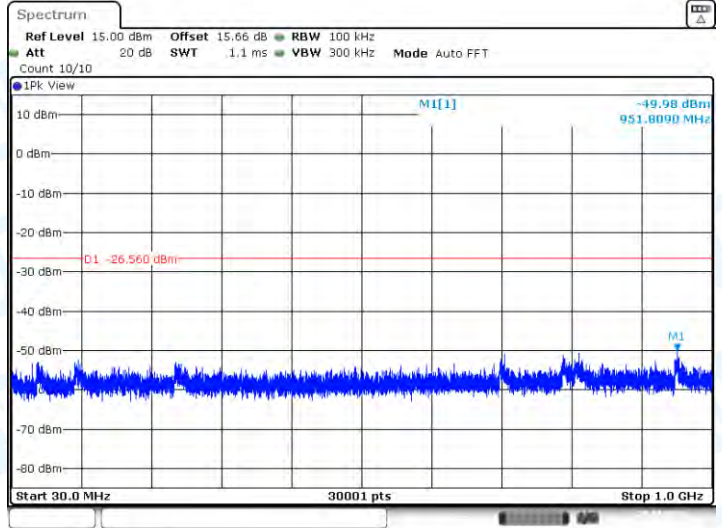
Date: 29.JUL.2024 18:59:41

11G-Ant2-2462-30~1000-PASS

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

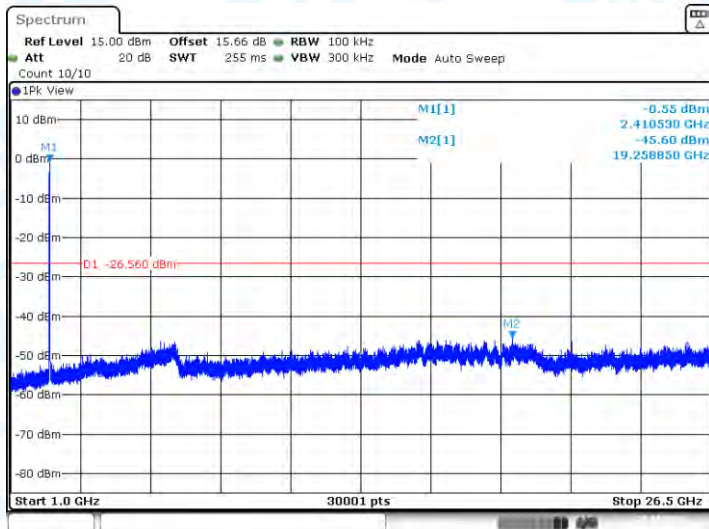


Date: 29.JUL.2024 19:04:58



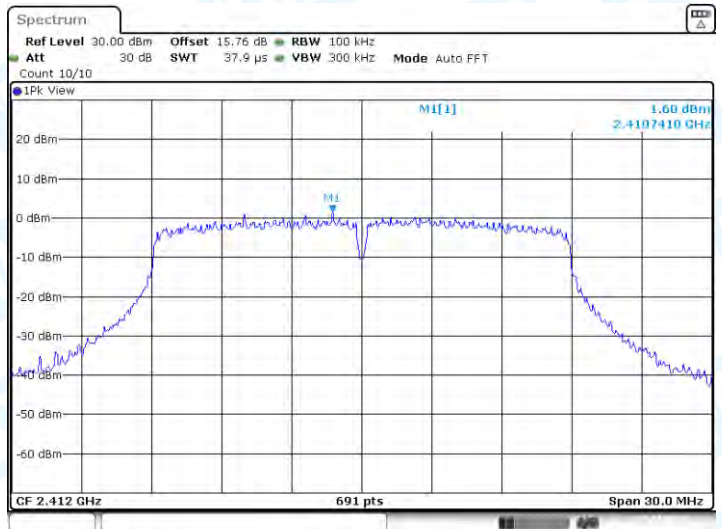
Date: 29.JUL.2024 19:05:10

11N20MIMO-Ant1-2412-0~Reference-PASS



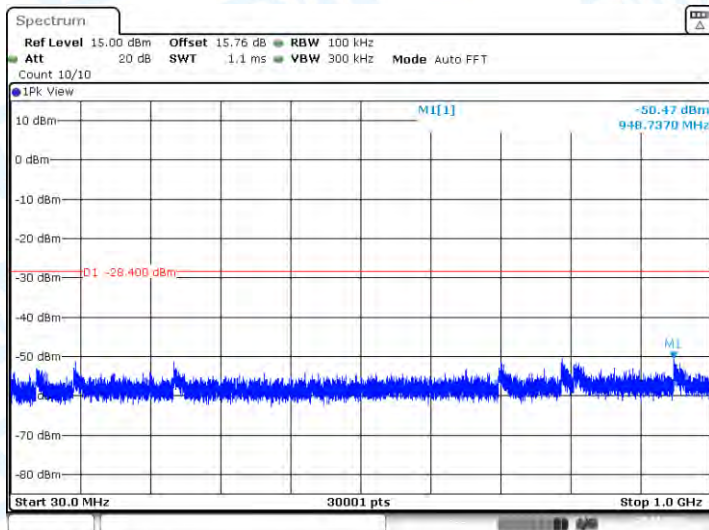
Date: 29.JUL.2024 19:05:40

11N20MIMO-Ant1-2412-30~1000-PASS



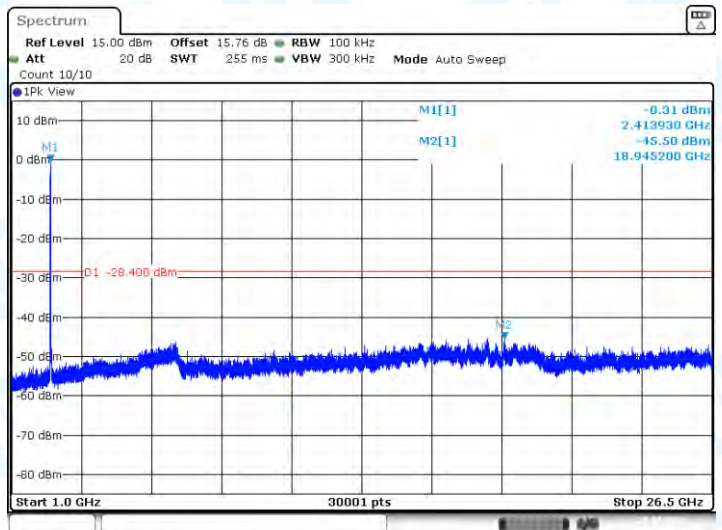
Date: 29.JUL.2024 19:07:00

11N20MIMO-Ant1-2412-1000~26500-PASS



Date: 29.JUL.2024 19:07:13

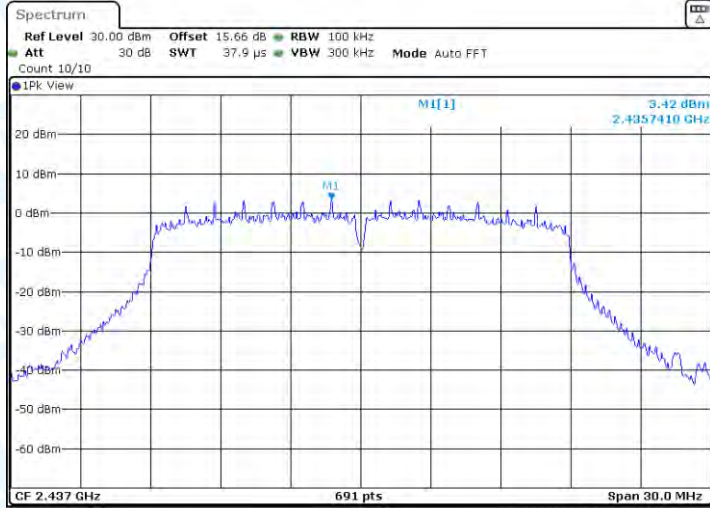
11N20MIMO-Ant2-2412-0~Reference-PASS



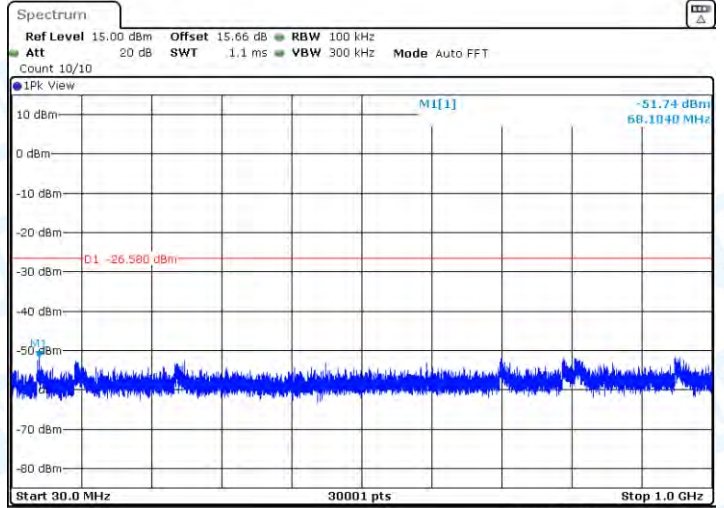
Date: 29.JUL.2024 19:07:43

11N20MIMO-Ant2-2412-30~1000-PASS

11N20MIMO-Ant2-2412-1000~26500-PASS



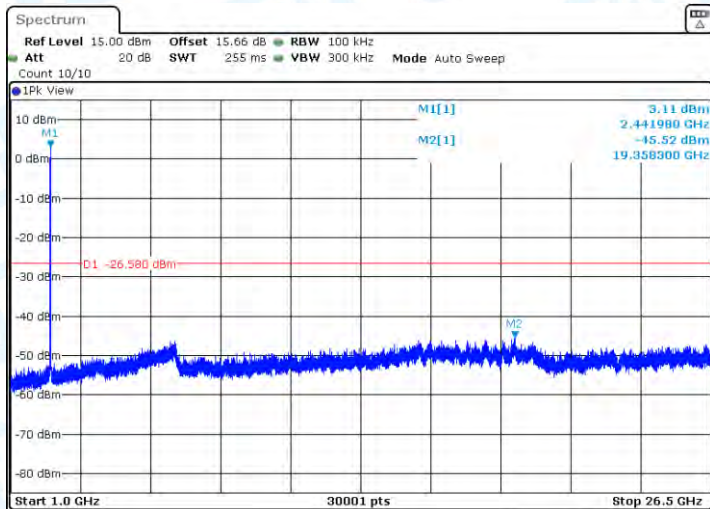
Date: 29.JUL.2024 19:09:26



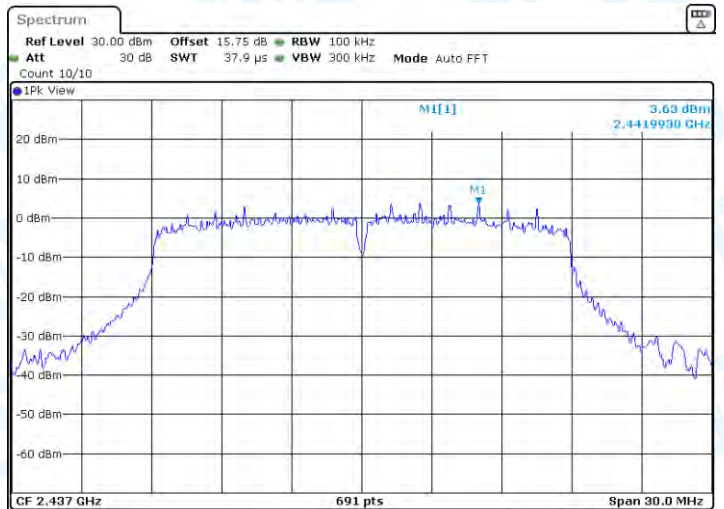
Date: 29.JUL.2024 19:09:39

11N20MIMO-Ant1-2437-0~Reference-PASS

11N20MIMO-Ant1-2437-30~1000-PASS



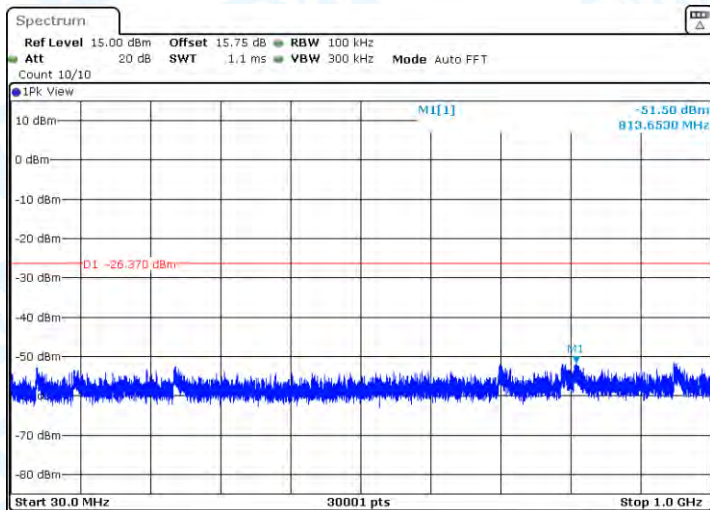
Date: 29.JUL.2024 19:10:09



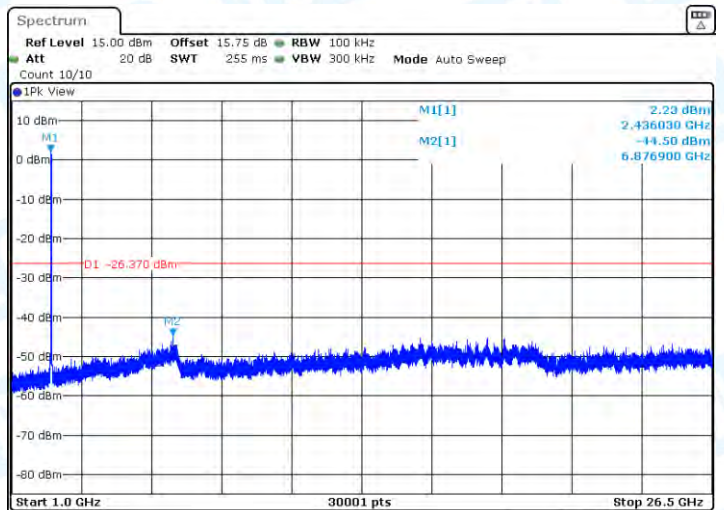
Date: 29.JUL.2024 19:11:39

11N20MIMO-Ant1-2437-1000~26500-PASS

11N20MIMO-Ant2-2437-0~Reference-PASS



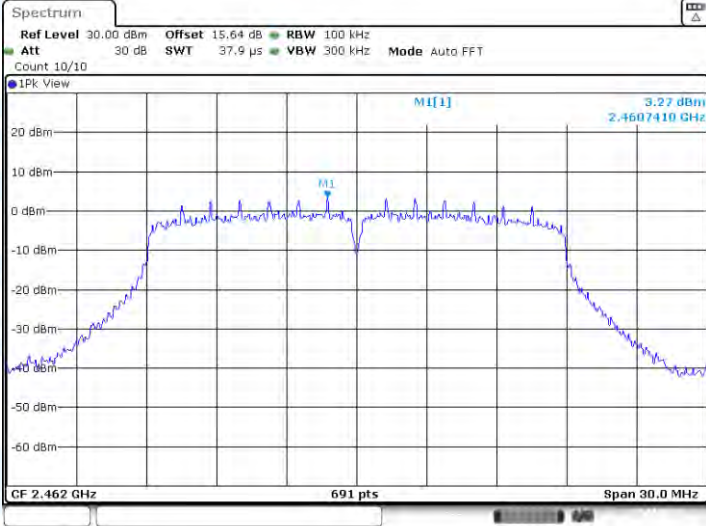
Date: 29.JUL.2024 19:11:52



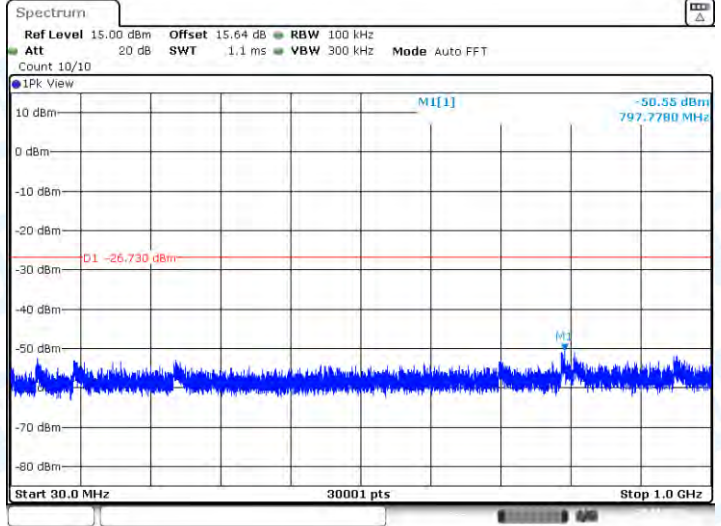
Date: 29.JUL.2024 19:12:22

11N20MIMO-Ant2-2437-30~1000-PASS

11N20MIMO-Ant2-2437-1000~26500-PASS



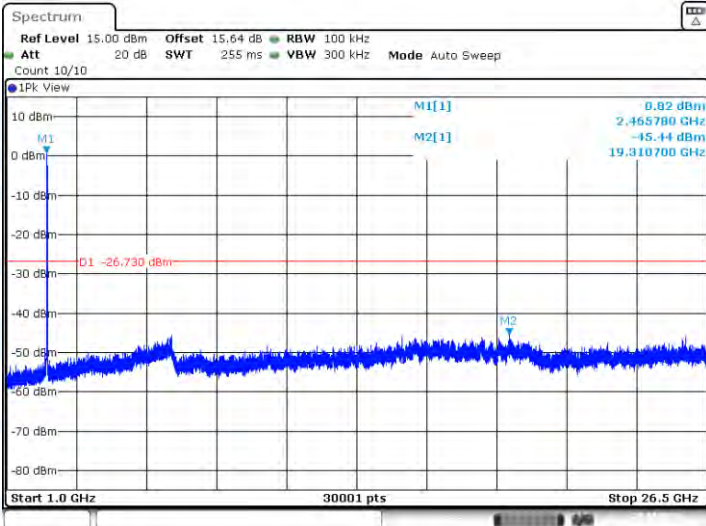
Date: 29.JUL.2024 19:14:21



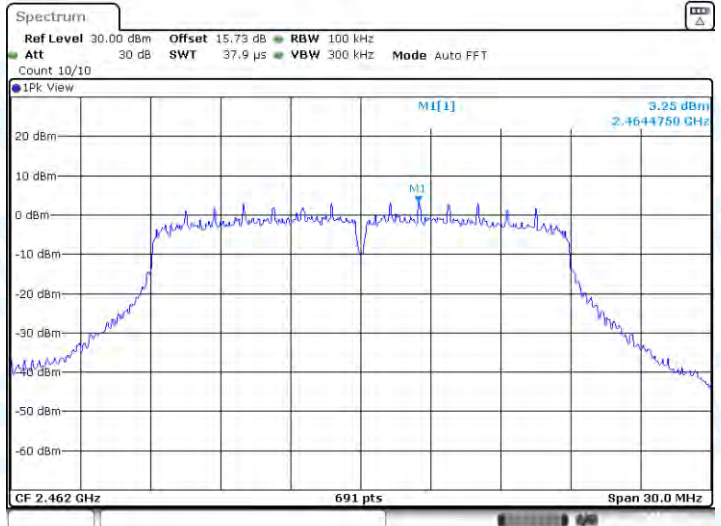
Date: 29.JUL.2024 19:14:34

11N20MIMO-Ant1-2462-0~Reference-PASS

11N20MIMO-Ant1-2462-30~1000-PASS



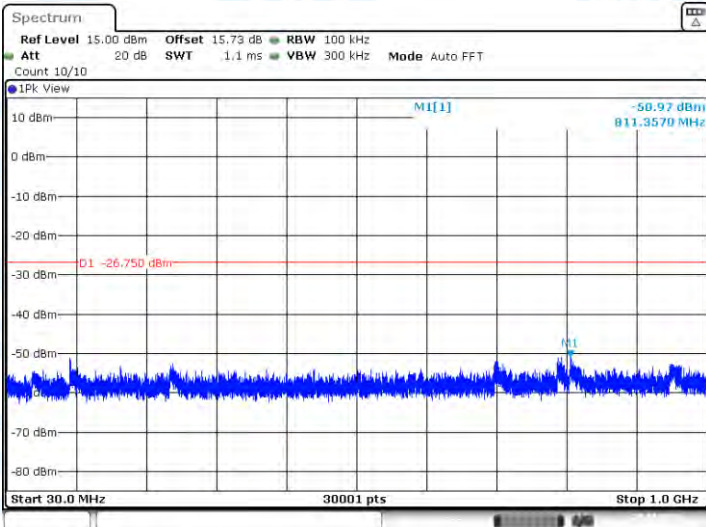
Date: 29.JUL.2024 19:15:04



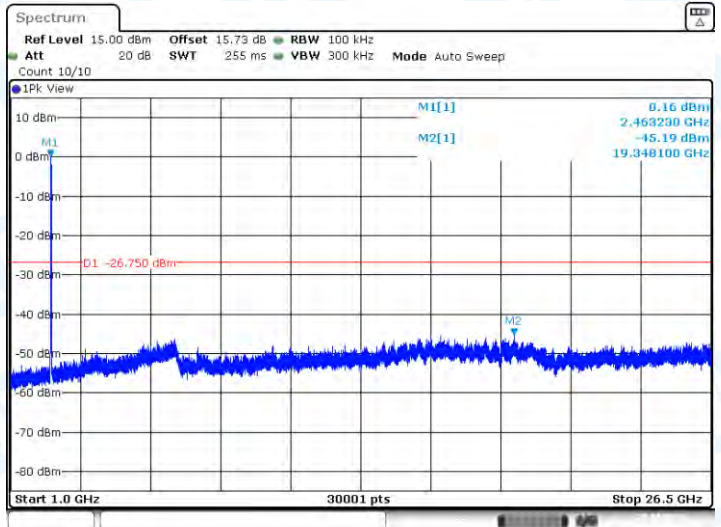
Date: 29.JUL.2024 19:17:26

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

11N20MIMO-Ant2-2462-0~Reference-PASS



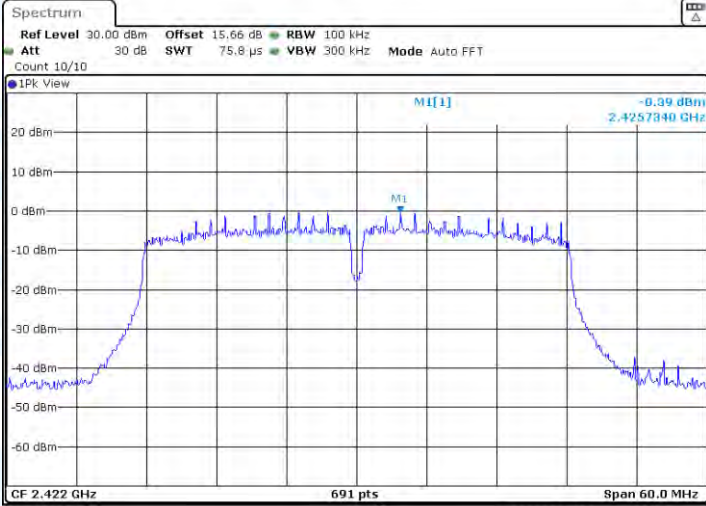
Date: 29.JUL.2024 19:17:39



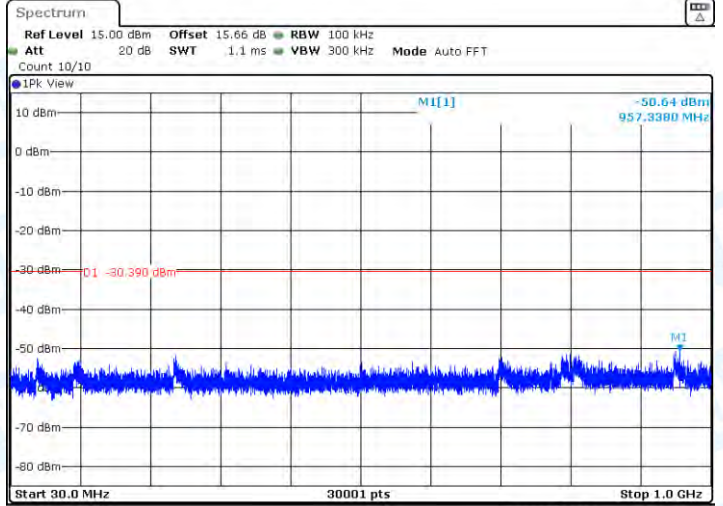
Date: 29.JUL.2024 19:18:09

11N20MIMO-Ant2-2462-30~1000-PASS

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



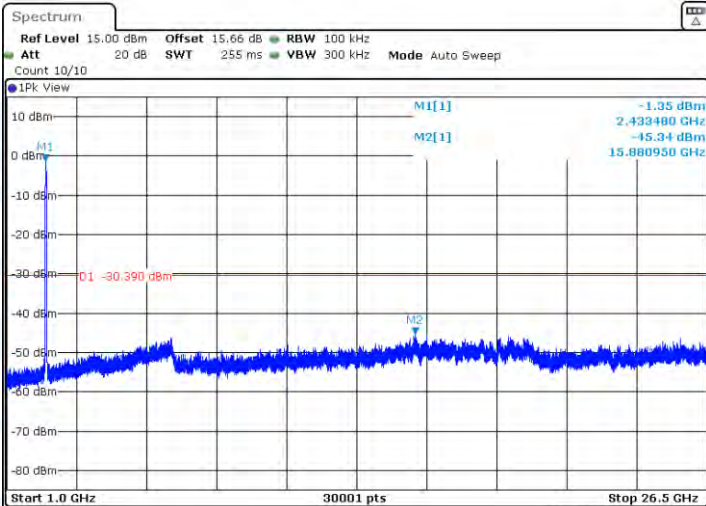
Date: 29.JUL.2024 19:19:57



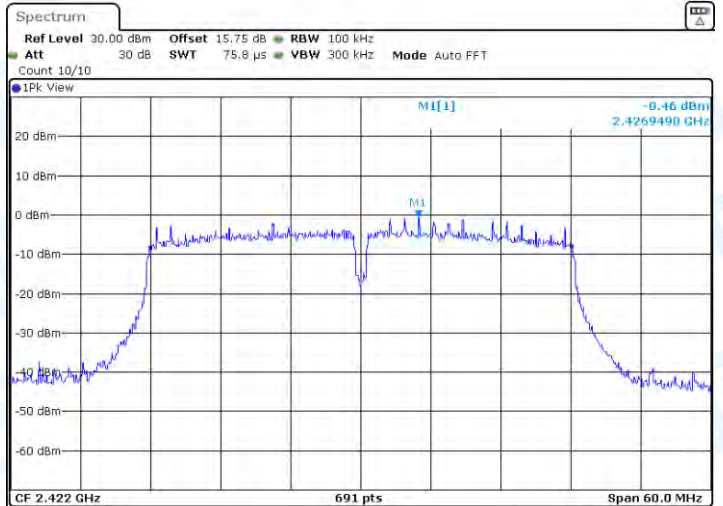
Date: 29.JUL.2024 19:20:09

11N40MIMO-Ant1-2422-0~Reference-PASS

11N40MIMO-Ant1-2422-30~1000-PASS



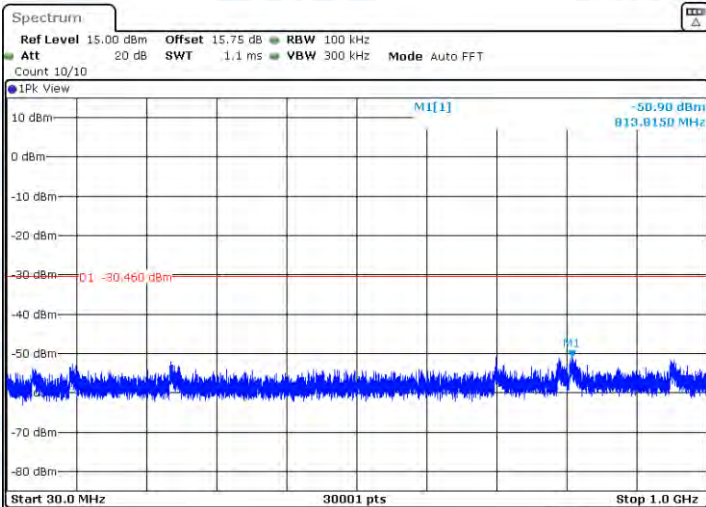
Date: 29.JUL.2024 19:20:39



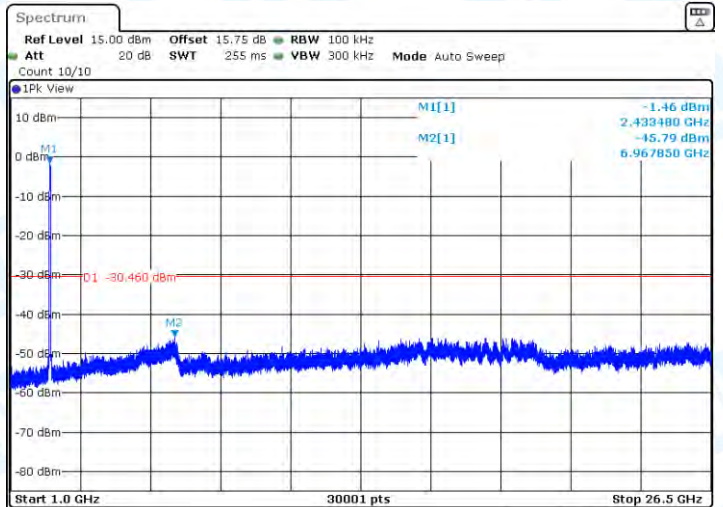
Date: 29.JUL.2024 19:21:59

11N40MIMO-Ant1-2422-1000~26500-PASS

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



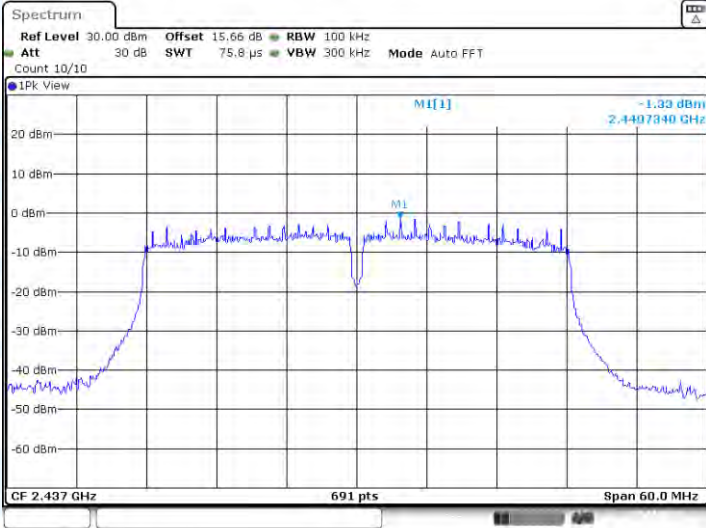
Date: 29.JUL.2024 19:22:12



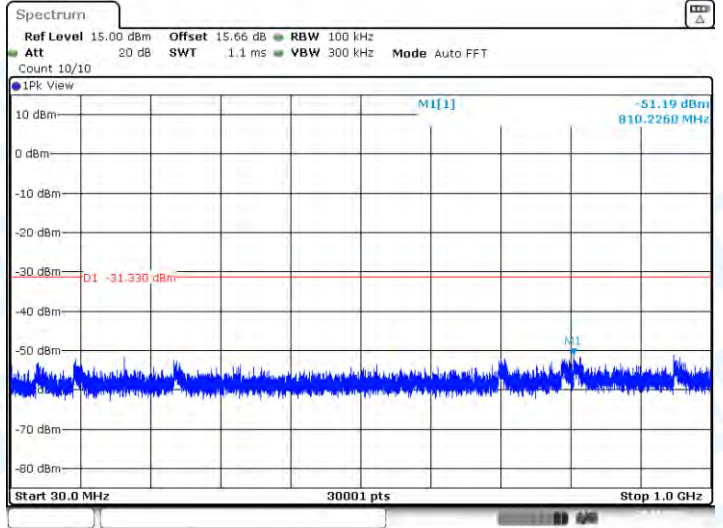
Date: 29.JUL.2024 19:22:42

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

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

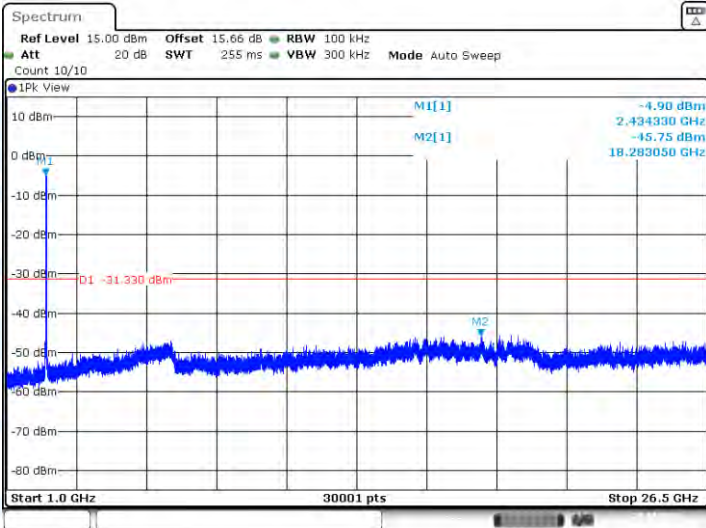


Date: 29.JUL.2024 19:24:04



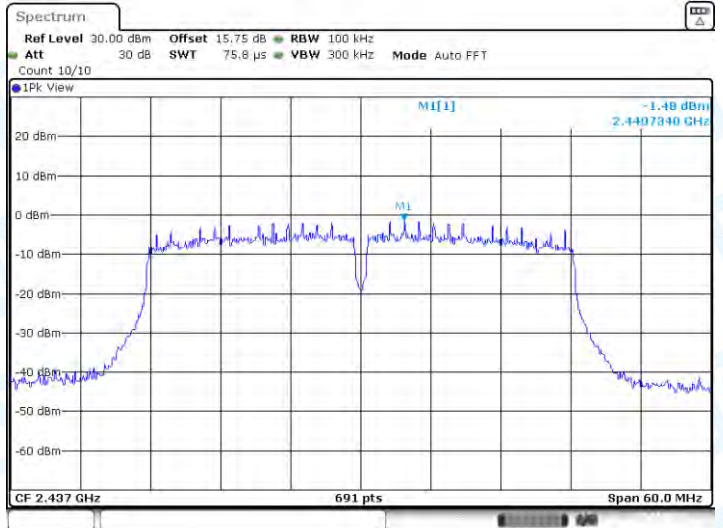
Date: 29.JUL.2024 19:24:17

11N40MIMO-Ant1-2437-0~Reference-PASS



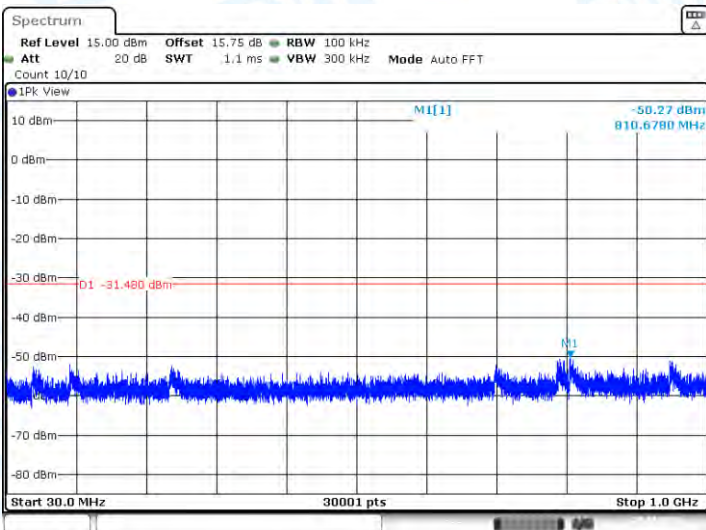
Date: 29.JUL.2024 19:24:47

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



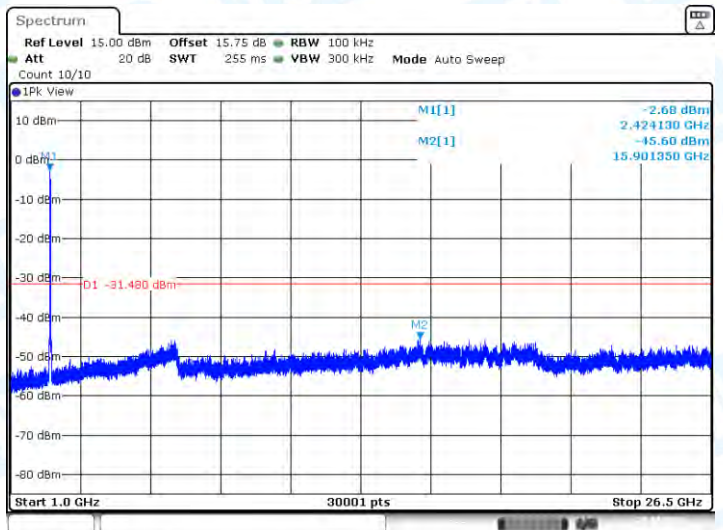
Date: 29.JUL.2024 19:26:29

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



Date: 29.JUL.2024 19:26:42

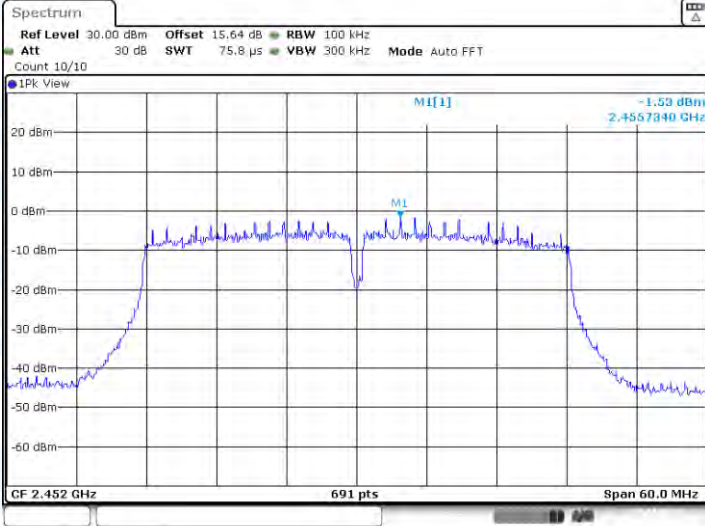
11N40MIMO-Ant2-2437-0~Reference-PASS



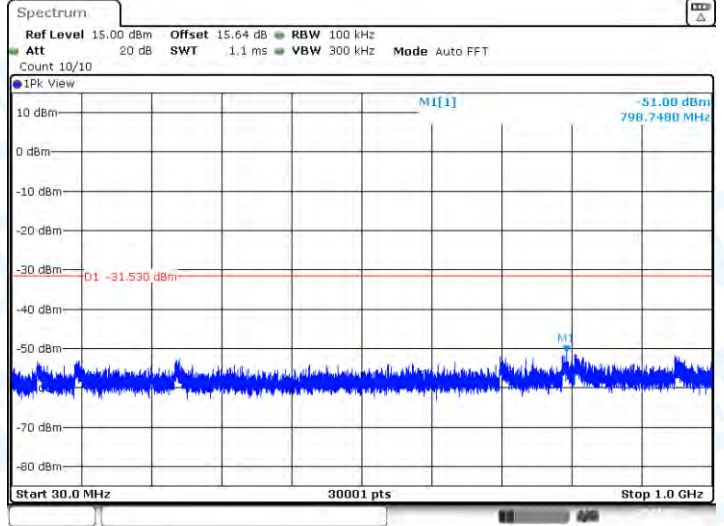
Date: 29.JUL.2024 19:27:12

11N40MIMO-Ant2-2437-30~1000-PASS

11N40MIMO-Ant2-2437-1000~26500-PASS

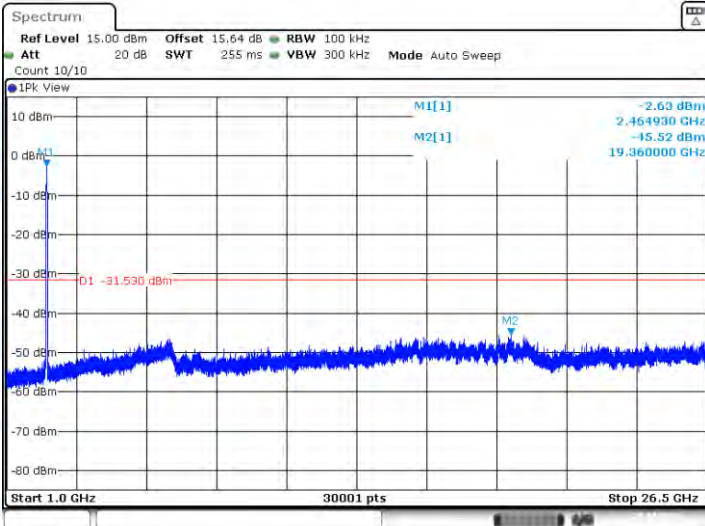


Date: 29.JUL.2024 19:28:51



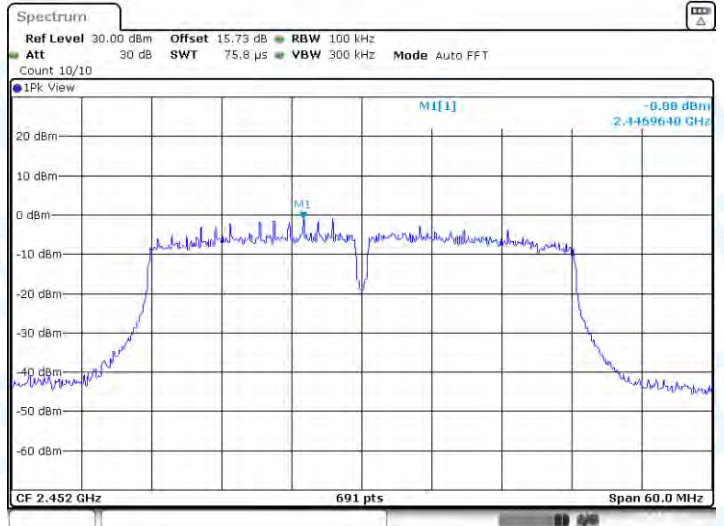
Date: 29.JUL.2024 19:29:04

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



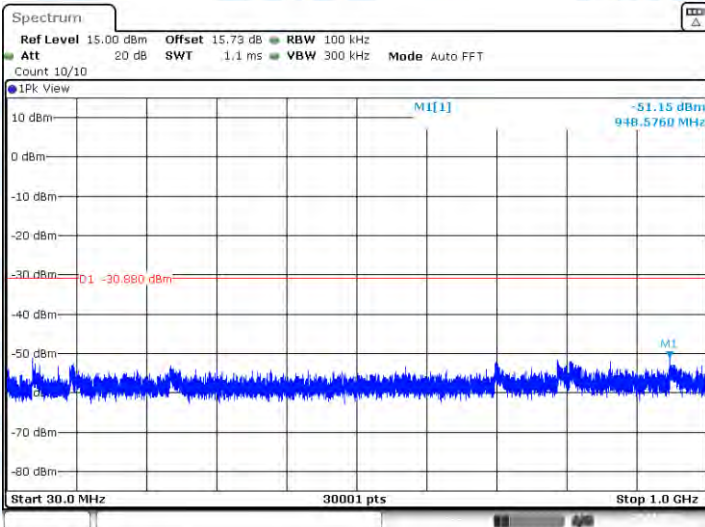
Date: 29.JUL.2024 19:29:34

11N40MIMO-Ant1-2452-30~1000-PASS



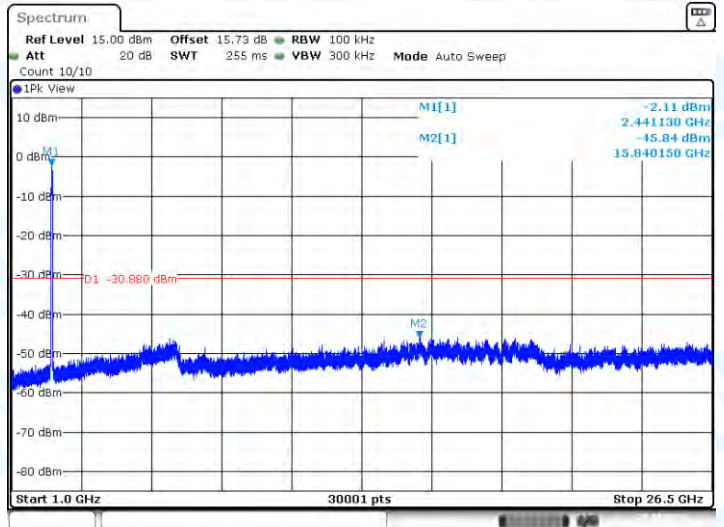
Date: 29.JUL.2024 19:31:04

11N40MIMO-Ant1-2452-1000~26500-PASS



Date: 29.JUL.2024 19:31:17

11N40MIMO-Ant2-2452-0~Reference-PASS



Date: 29.JUL.2024 19:31:47

11N40MIMO-Ant2-2452-30~1000-PASS

11N40MIMO-Ant2-2452-1000~26500-PASS

7: Duty Cycle

7.1 Test Result

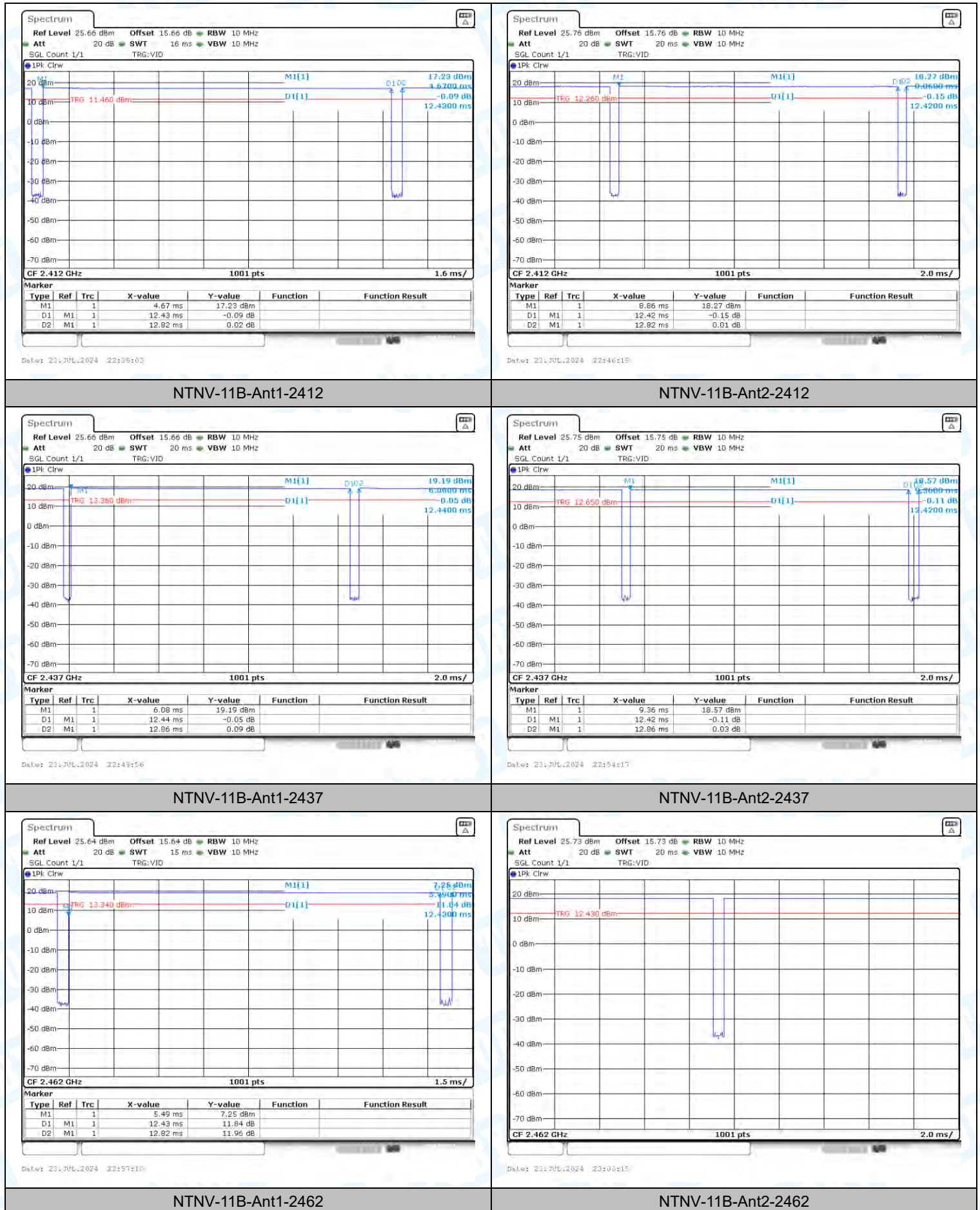
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
11B	Ant1	2412	12.43	12.82	96.96	0.13	0.08
11B	Ant2	2412	12.42	12.82	96.88	0.14	0.08
11B	Ant1	2437	12.44	12.86	96.73	0.14	0.08
11B	Ant2	2437	12.42	12.86	96.58	0.15	0.08
11B	Ant1	2462	12.43	12.82	96.96	0.13	0.08
11B	Ant2	2462	20.00	20.00	100.00	0.00	0.05
11G	Ant1	2412	2.07	2.30	90.00	0.46	0.48
11G	Ant2	2412	2.07	2.30	90.00	0.46	0.48
11G	Ant1	2437	2.06	2.24	91.96	0.36	0.49
11G	Ant2	2437	2.06	2.30	89.57	0.48	0.49
11G	Ant1	2462	2.07	2.23	92.83	0.32	0.48
11G	Ant2	2462	2.07	2.30	90.00	0.46	0.48
11N20MIMO	Ant1	2412	1.92	2.12	90.57	0.43	0.52
11N20MIMO	Ant2	2412	1.92	2.06	93.20	0.31	0.52
11N20MIMO	Ant1	2437	1.92	2.15	89.30	0.49	0.52
11N20MIMO	Ant2	2437	1.92	2.14	89.72	0.47	0.52
11N20MIMO	Ant1	2462	1.92	2.14	89.72	0.47	0.52
11N20MIMO	Ant2	2462	1.92	2.16	88.89	0.51	0.52
11N40MIMO	Ant1	2422	0.94	1.19	78.99	1.02	1.06
11N40MIMO	Ant2	2422	0.94	1.17	80.34	0.95	1.06
11N40MIMO	Ant1	2437	0.94	1.17	80.34	0.95	1.06
11N40MIMO	Ant2	2437	0.94	1.15	81.74	0.88	1.06
11N40MIMO	Ant1	2452	0.94	1.18	79.66	0.99	1.06
11N40MIMO	Ant2	2452	0.94	1.17	80.34	0.95	1.06

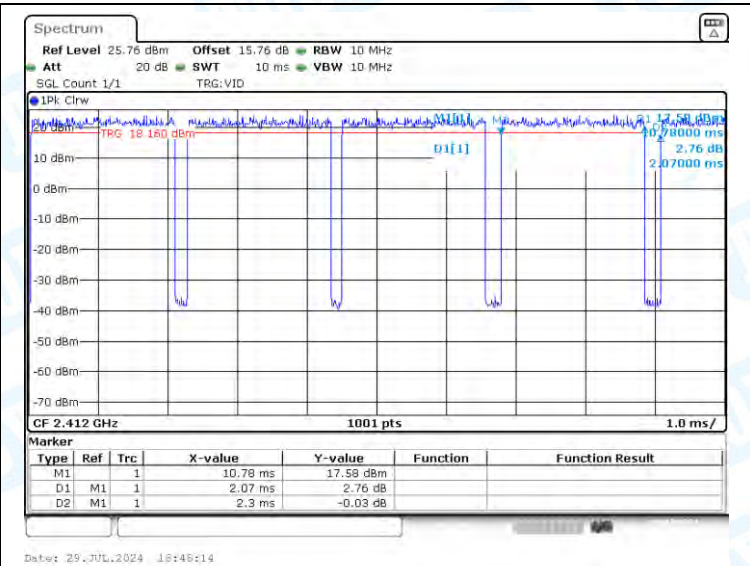
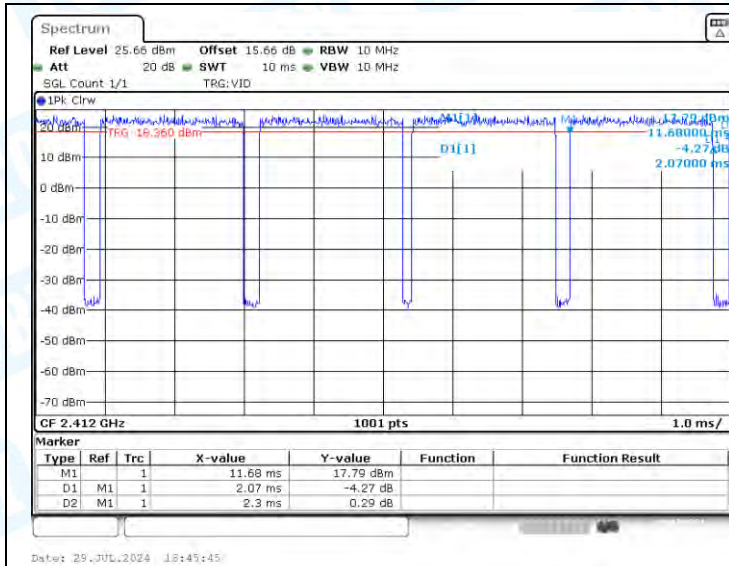
Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factory=10*Log₁₀(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

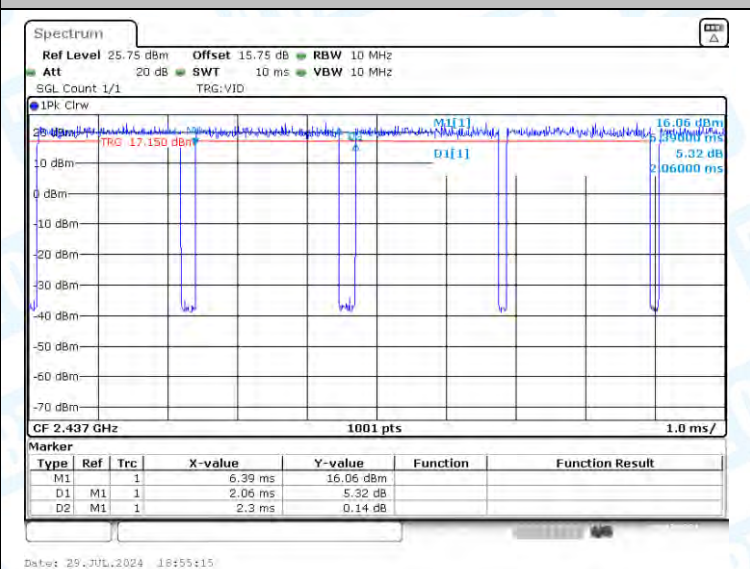
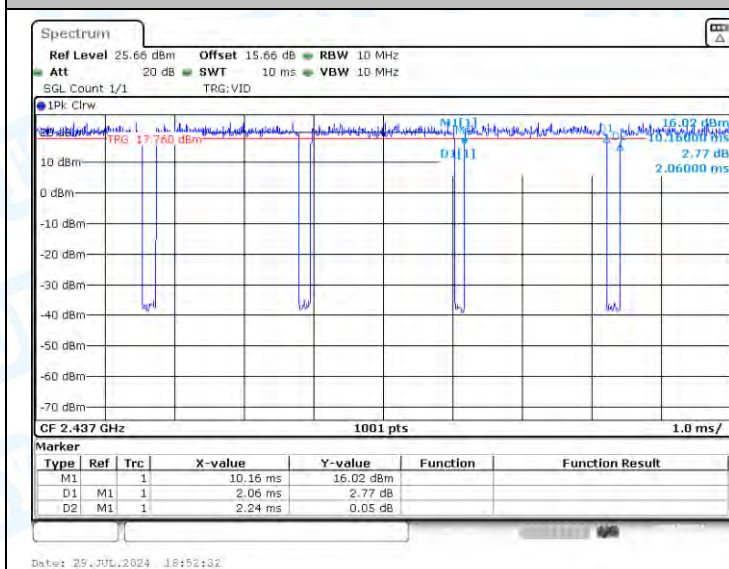
7.2 Test Graphs





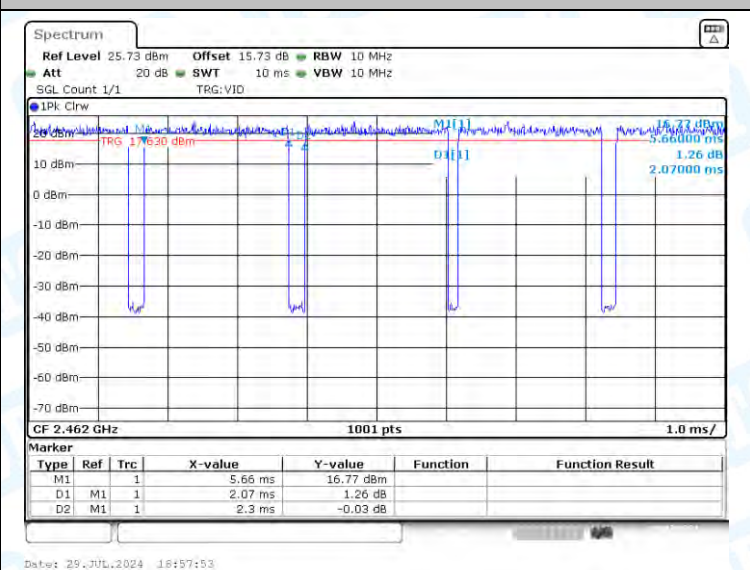
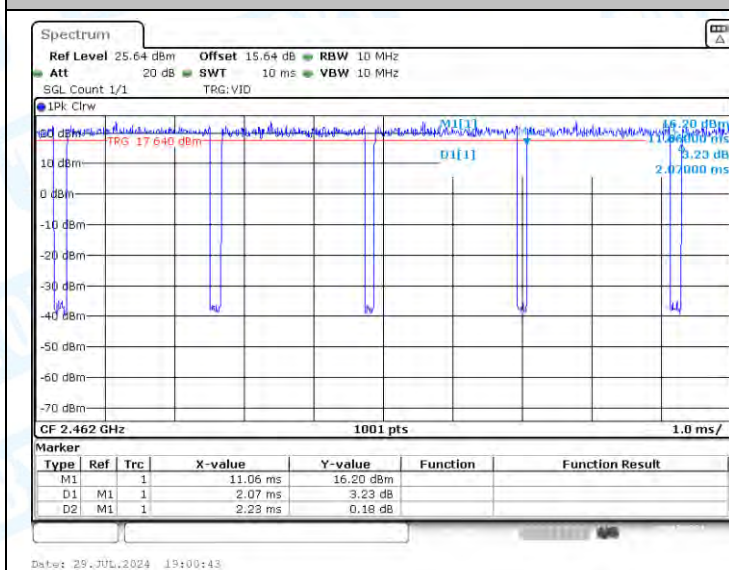
NTNV-11G-Ant1-2412

NTNV-11G-Ant2-2412



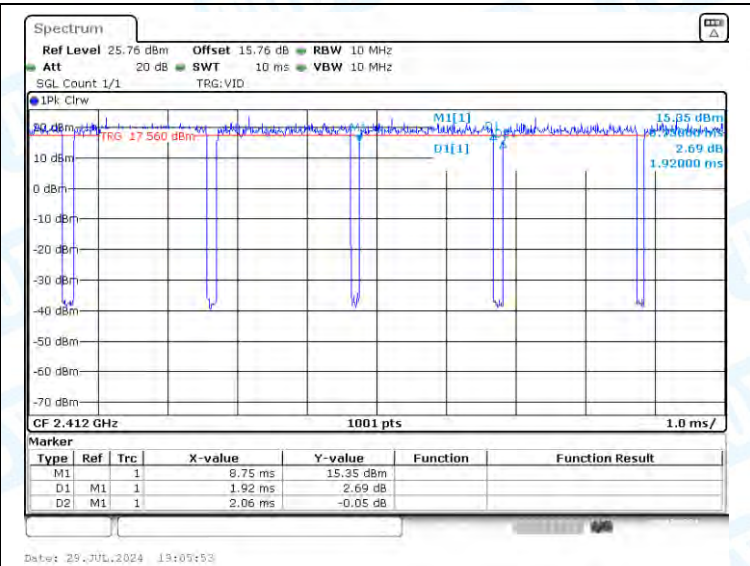
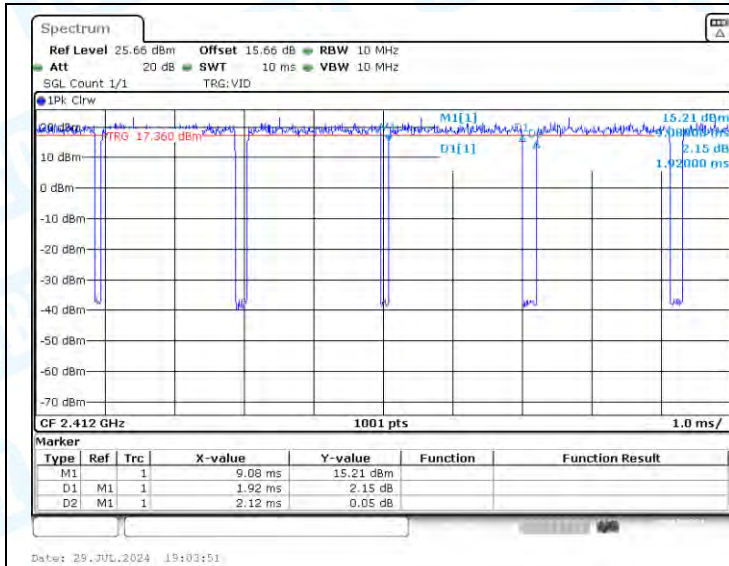
NTNV-11G-Ant1-2437

NTNV-11G-Ant2-2437



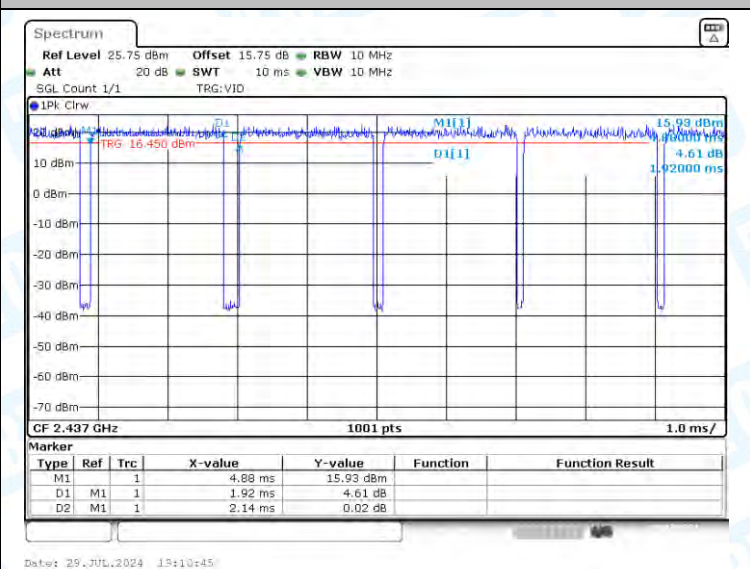
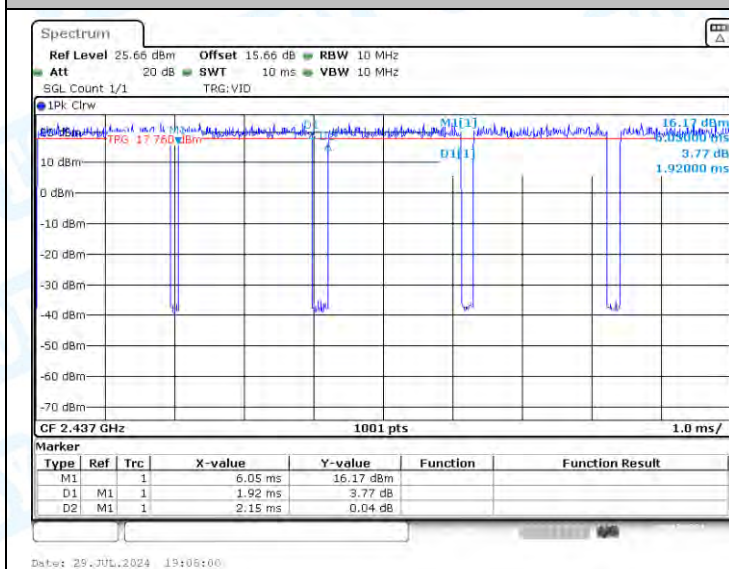
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NTNV-11G-Ant2-2462



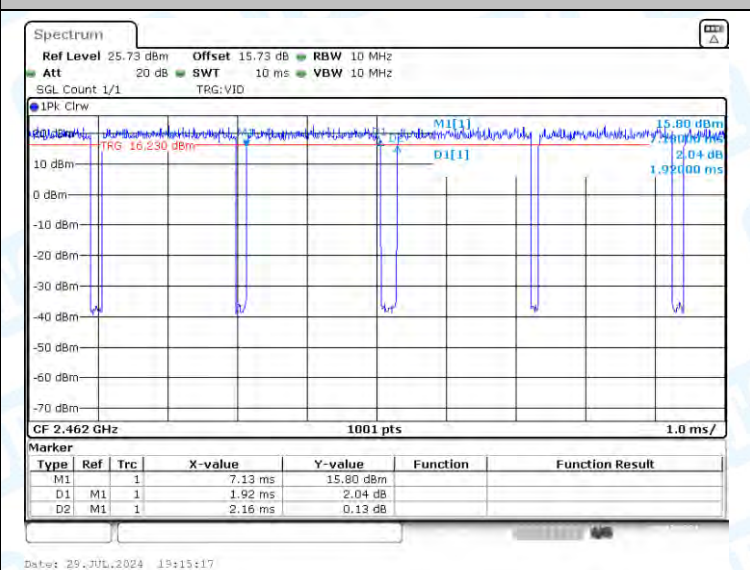
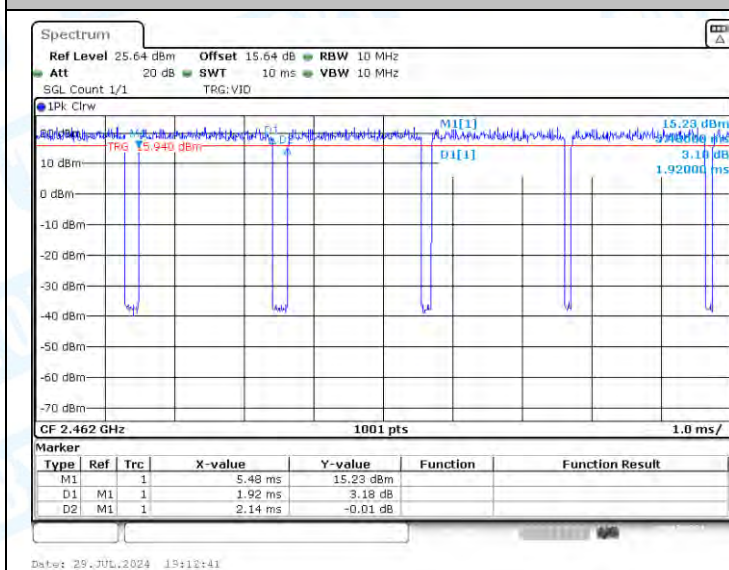
NTNV-11N20MIMO-Ant1-2412

NTNV-11N20MIMO-Ant2-2412



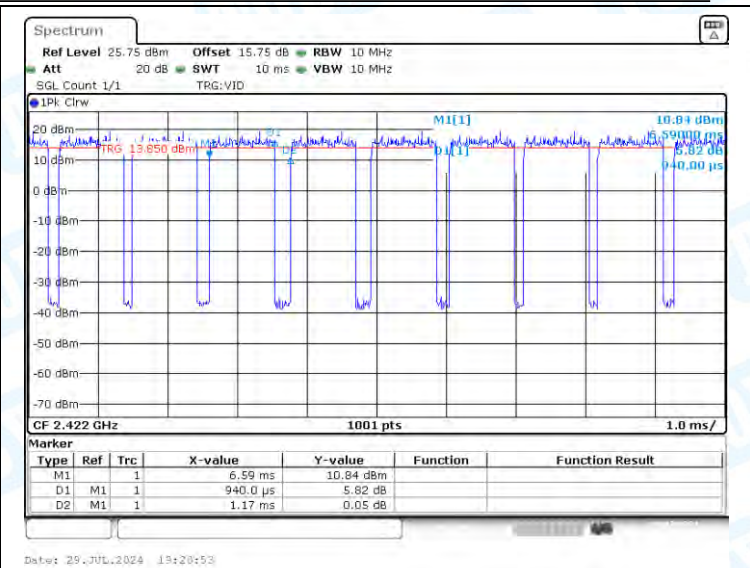
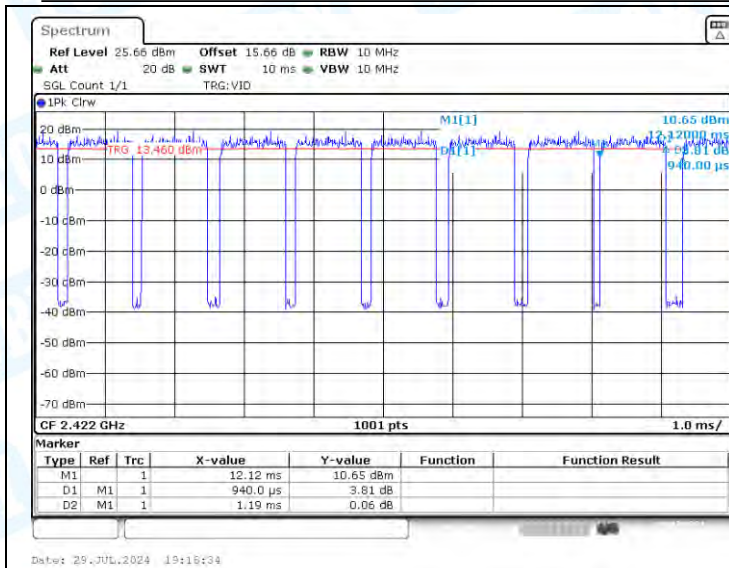
NTNV-11N20MIMO-Ant1-2437

NTNV-11N20MIMO-Ant2-2437



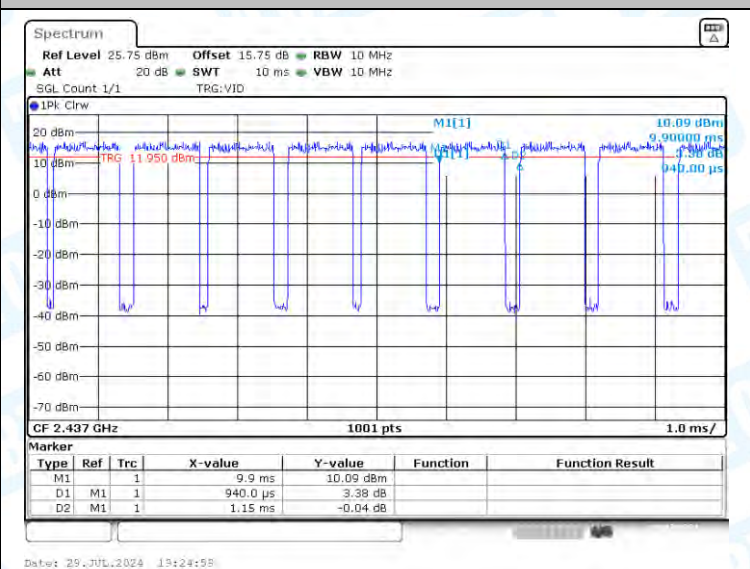
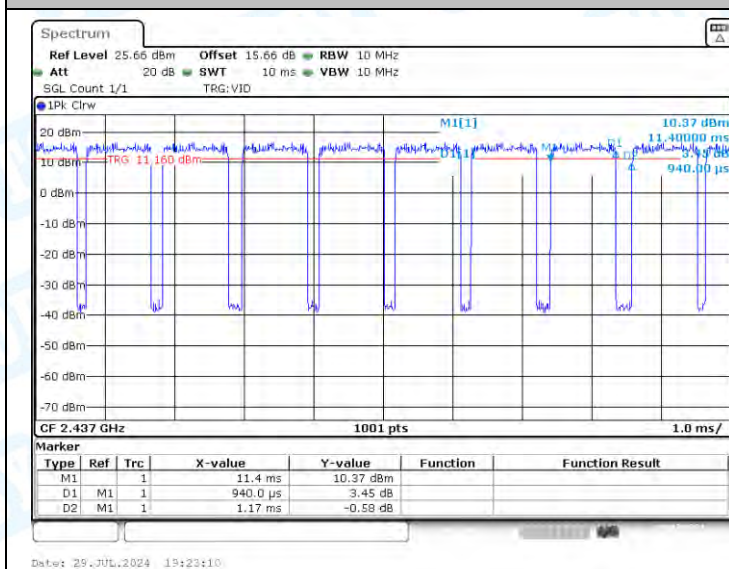
NTNV-11N20MIMO-Ant1-2462

NTNV-11N20MIMO-Ant2-2462



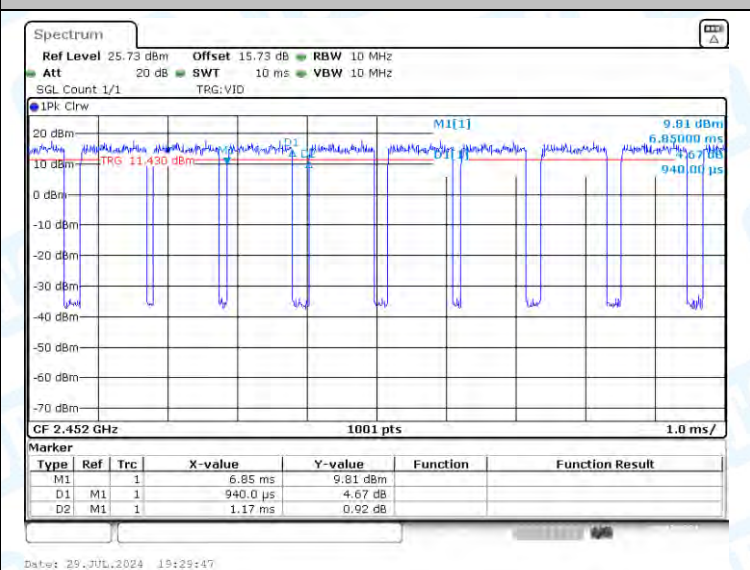
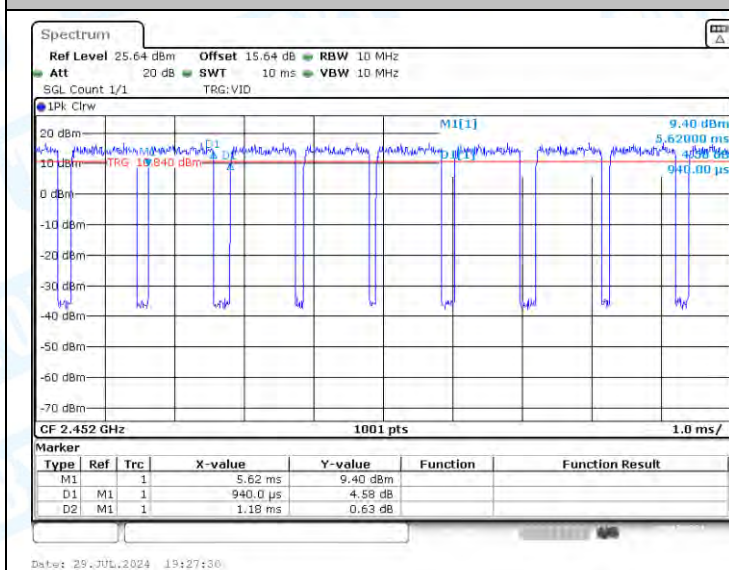
NTNV-11N40MIMO-Ant1-2422

NTNV-11N40MIMO-Ant2-2422



NTNV-11N40MIMO-Ant1-2437

NTNV-11N40MIMO-Ant2-2437



NTNV-11N40MIMO-Ant1-2452

NTNV-11N40MIMO-Ant2-2452

-----END OF THE REPORT-----