

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

General Description of EUT	
Product Name:	4G Router
Test Model:	WS-R642
Sample ID:	202207-0016-3-2#
Environmental Conditions	
Temperature:	24.4℃
Relative Humidity:	50%
Test Voltage:	DC12V
Test Engineer:	HUANGJIANPING
Note: For a more detailed features description, please refer to the report TBR-C-202207-0016-4.	

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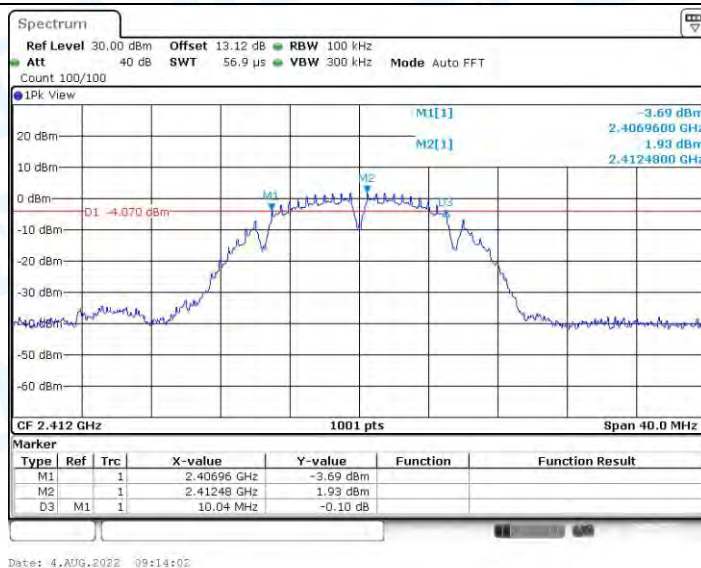
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1. DTS Bandwidth

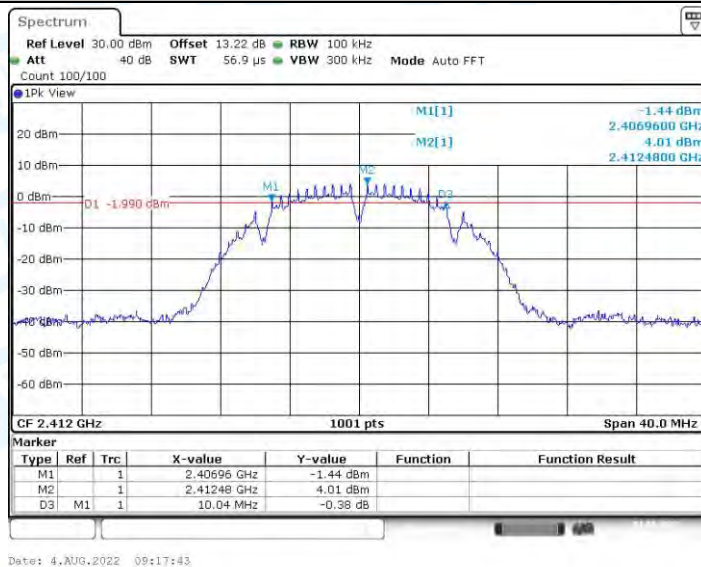
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.04	2406.96	2417.00	0.5	PASS
	Ant2	2412	10.04	2406.96	2417.00	0.5	PASS
	Ant1	2437	9.08	2432.44	2441.52	0.5	PASS
	Ant2	2437	9.24	2432.28	2441.52	0.5	PASS
	Ant1	2462	10.04	2456.96	2467.00	0.5	PASS
	Ant2	2462	10.04	2456.96	2467.00	0.5	PASS
11G-CDD	Ant1	2412	15.08	2404.44	2419.52	0.5	PASS
	Ant2	2412	13.88	2404.40	2418.28	0.5	PASS
	Ant1	2437	15.00	2429.48	2444.48	0.5	PASS
	Ant2	2437	15.00	2429.52	2444.52	0.5	PASS
	Ant1	2462	15.32	2454.44	2469.76	0.5	PASS
	Ant2	2462	16.04	2453.84	2469.88	0.5	PASS
11N20MIMO	Ant1	2412	15.08	2404.44	2419.52	0.5	PASS
	Ant2	2412	16.04	2404.08	2420.12	0.5	PASS
	Ant1	2437	15.32	2429.40	2444.72	0.5	PASS
	Ant2	2437	15.08	2429.44	2444.52	0.5	PASS
	Ant1	2462	16.32	2453.80	2470.12	0.5	PASS
	Ant2	2462	15.04	2454.44	2469.48	0.5	PASS
11N40MIMO	Ant1	2422	32.56	2405.68	2438.24	0.5	PASS
	Ant2	2422	33.84	2405.68	2439.52	0.5	PASS
	Ant1	2437	35.12	2419.40	2454.52	0.5	PASS
	Ant2	2437	31.36	2420.68	2452.04	0.5	PASS
	Ant1	2452	35.12	2434.40	2469.52	0.5	PASS
	Ant2	2452	32.64	2436.88	2469.52	0.5	PASS

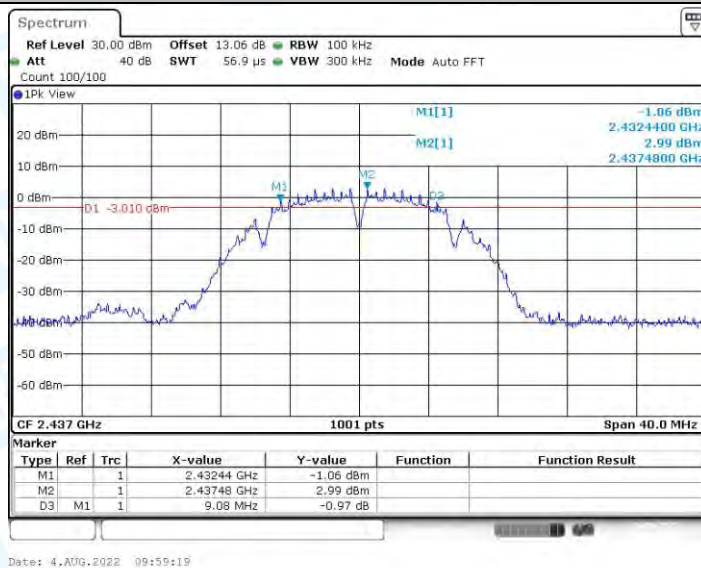
1.2. Test Graphs



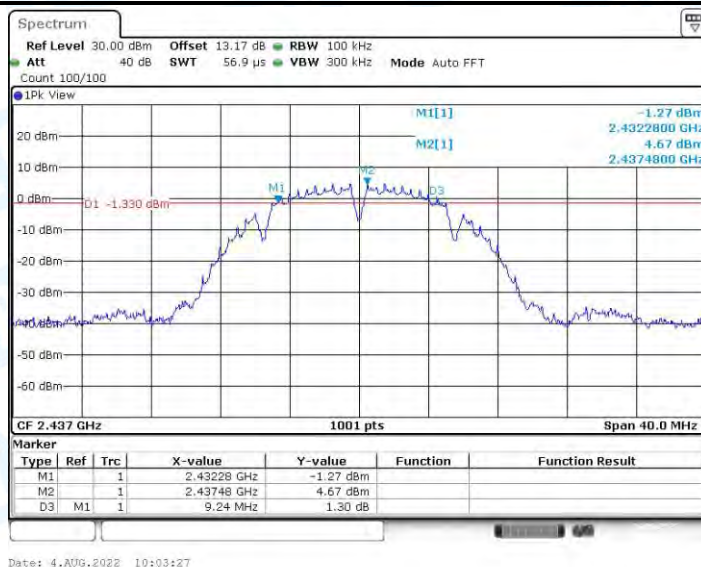
11B-CDD_Ant1_2412



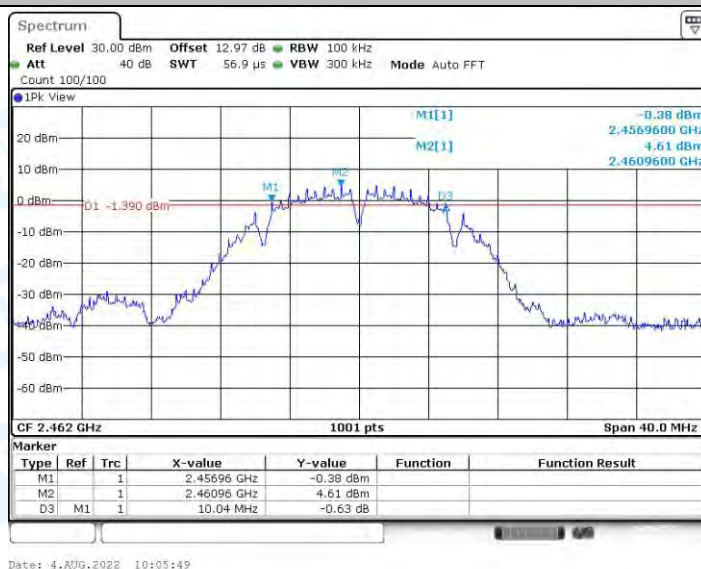
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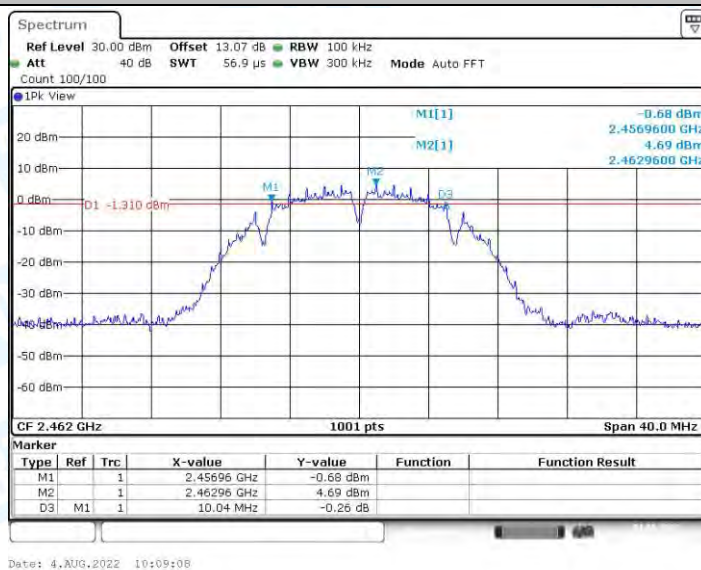
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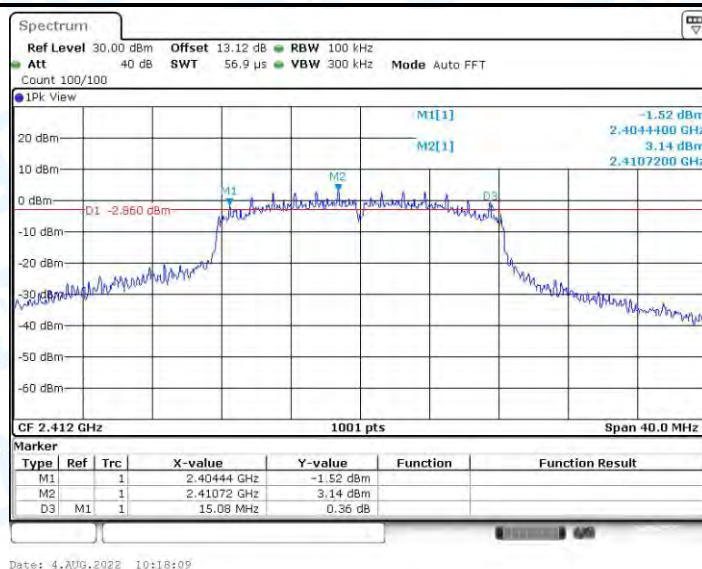
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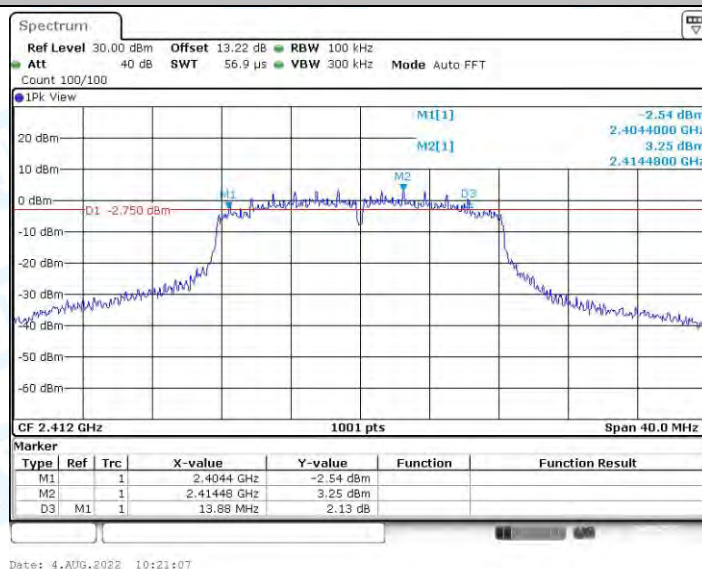
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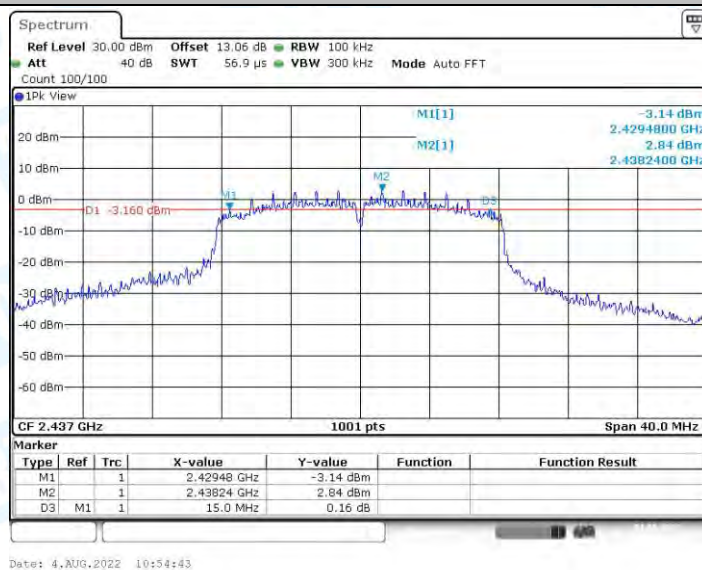
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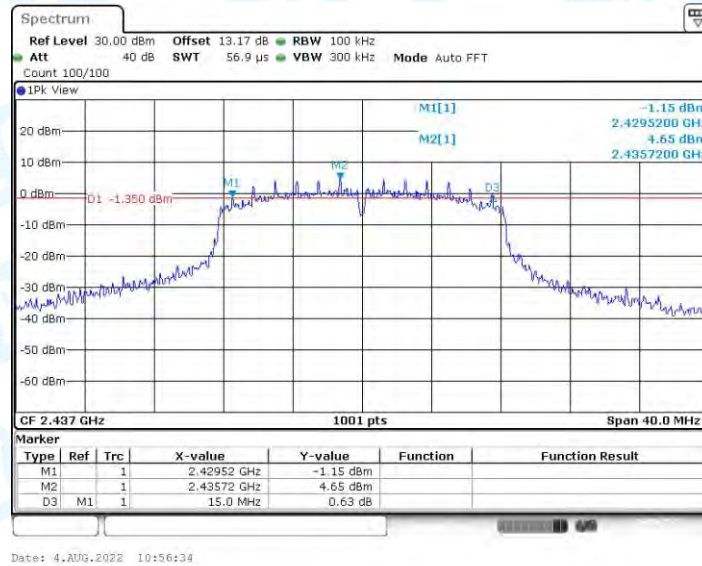
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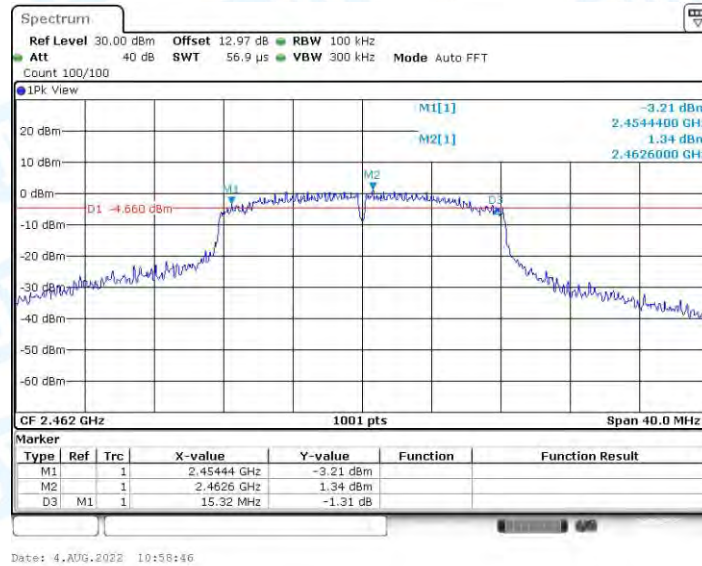
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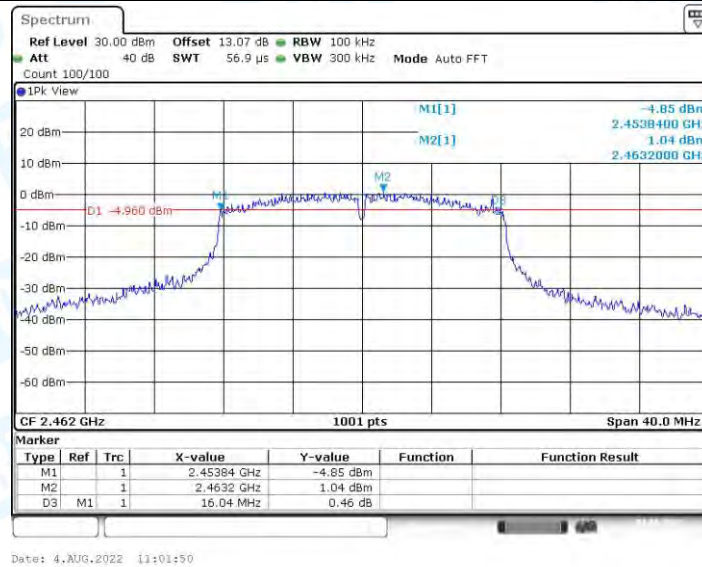
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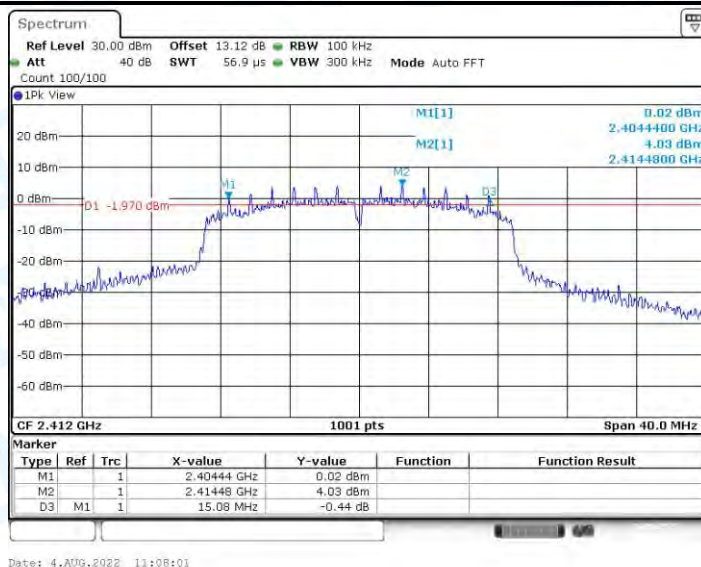
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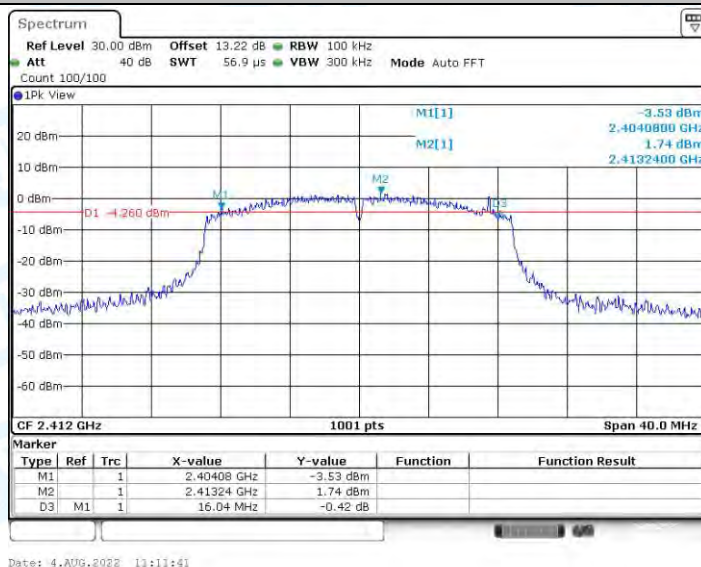
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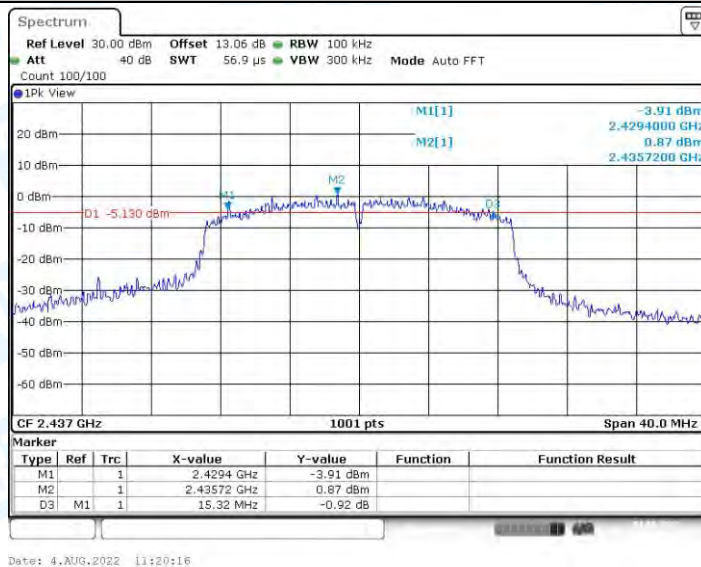
11G-CDD_Ant2_2462



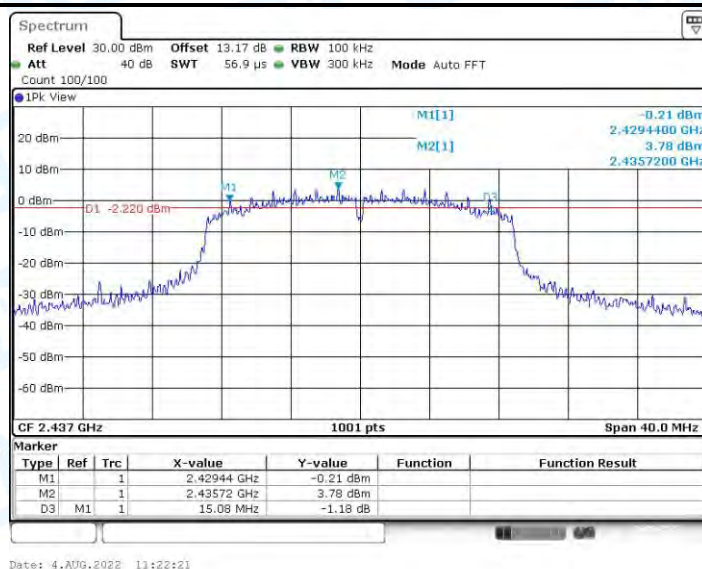
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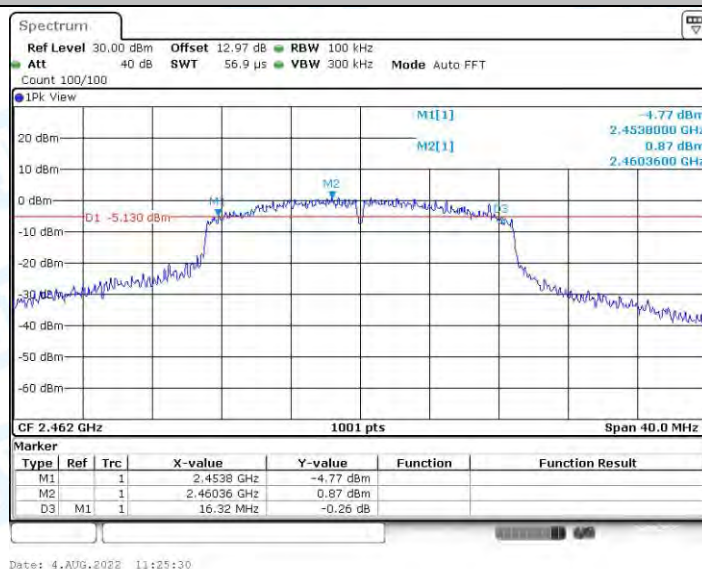
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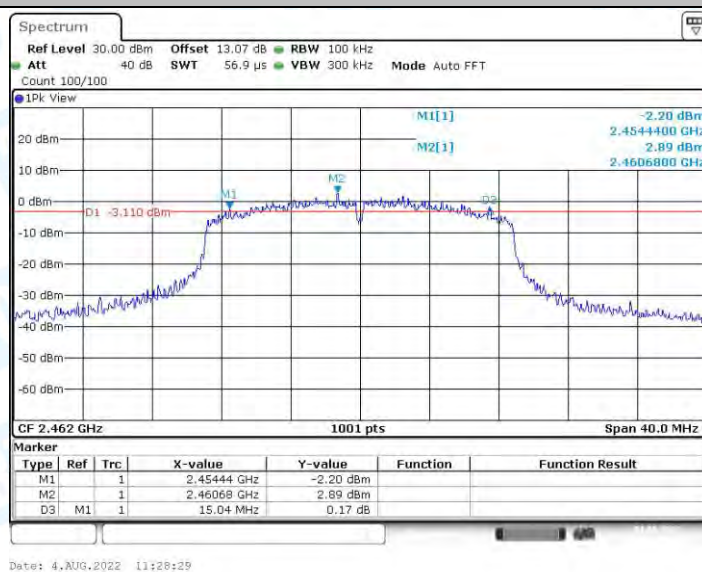
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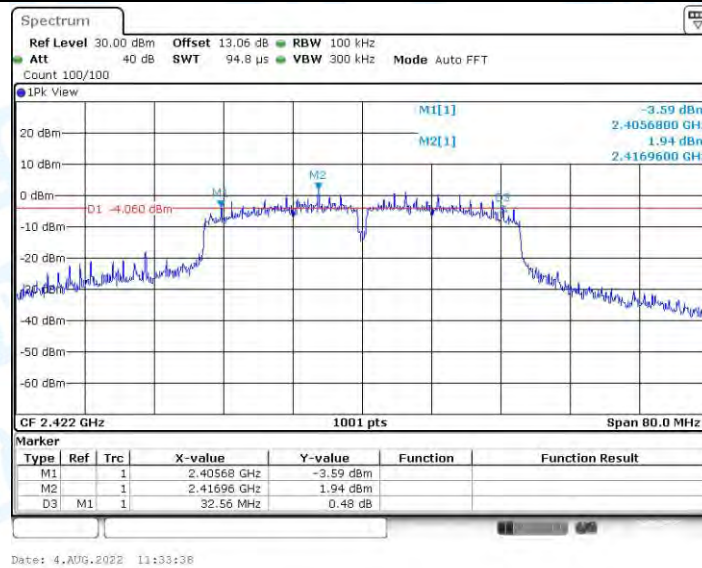
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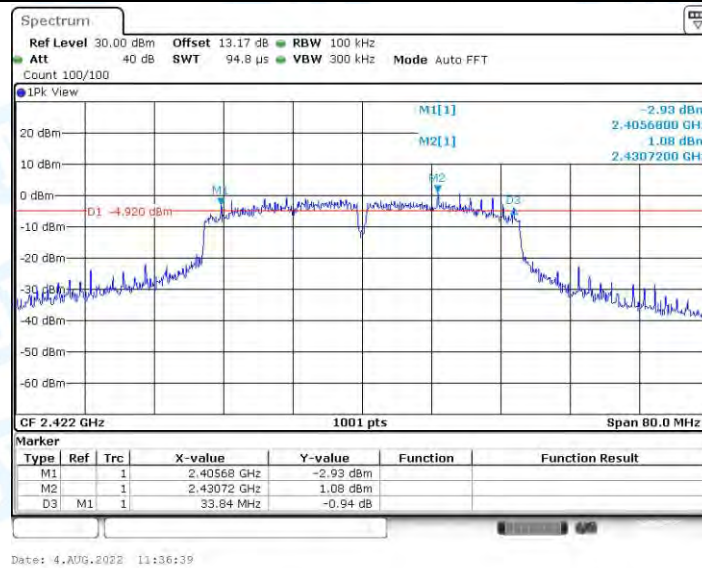
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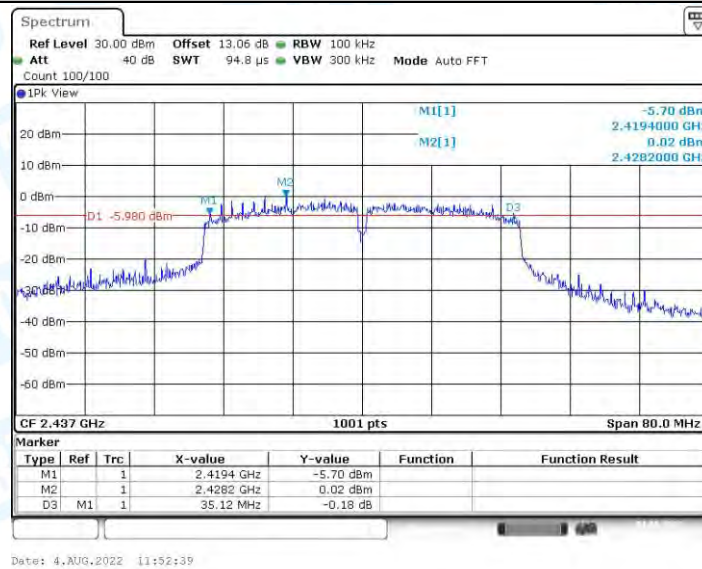
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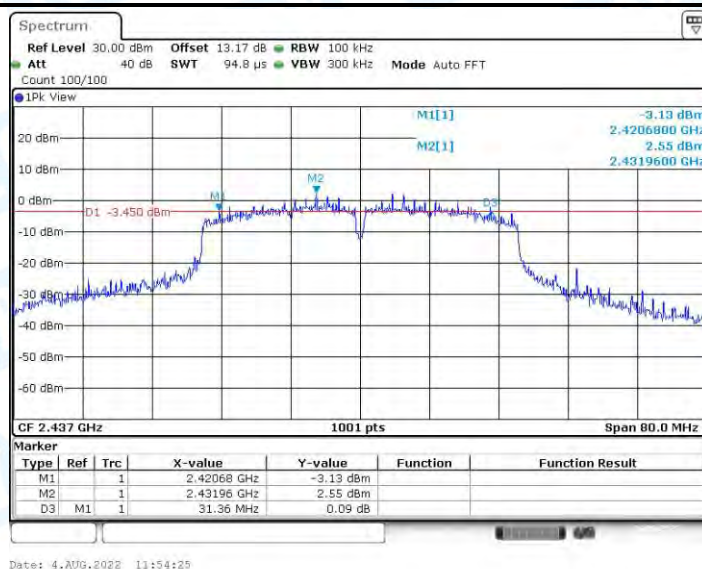
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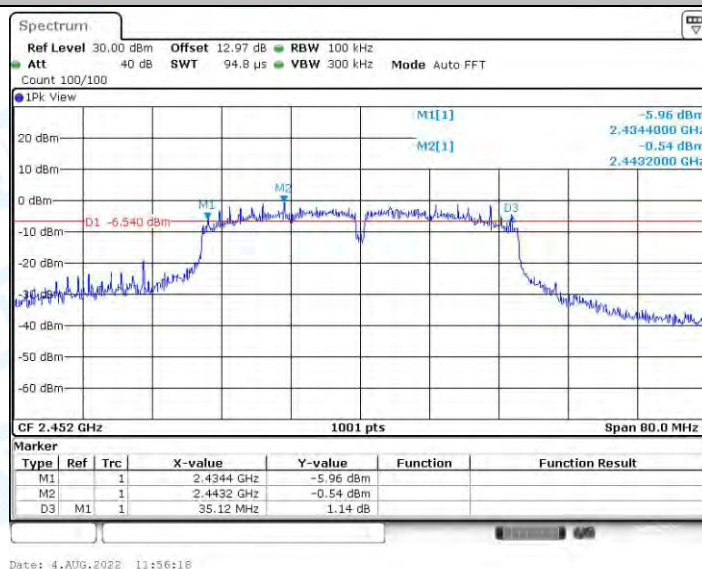
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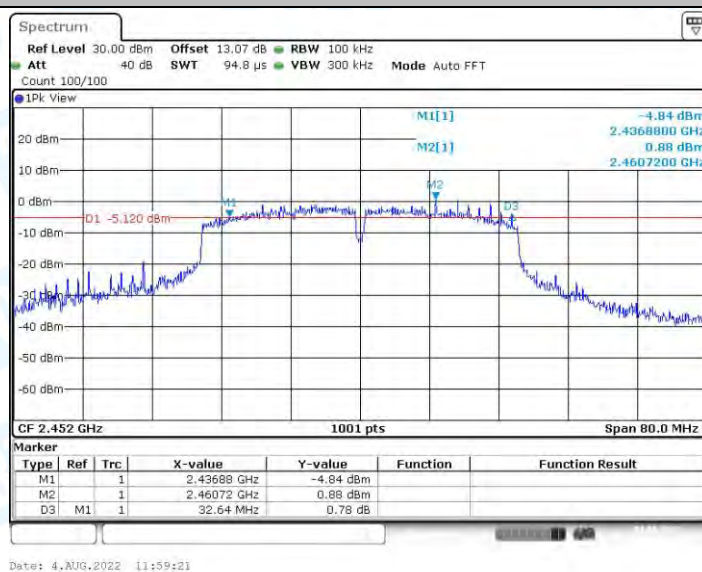
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



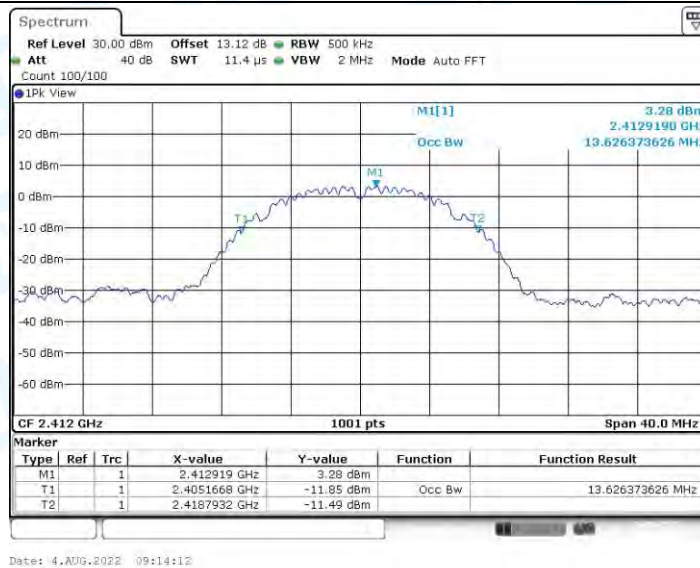
11N40MIMO_Ant2_2452

2. Occupied Channel Bandwidth

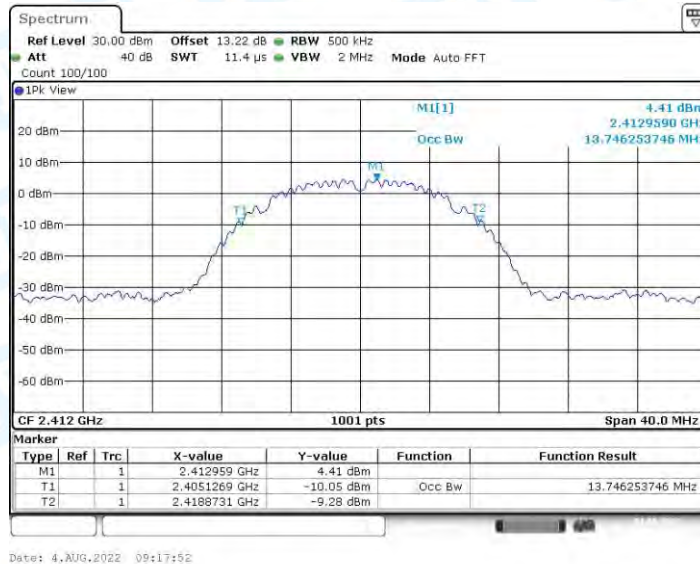
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.626	2405.167	2418.793	---	---
	Ant2	2412	13.746	2405.127	2418.873	---	---
	Ant1	2437	13.546	2430.207	2443.753	---	---
	Ant2	2437	13.626	2430.167	2443.793	---	---
	Ant1	2462	13.666	2455.087	2468.753	---	---
	Ant2	2462	13.626	2455.167	2468.793	---	---
11G-CDD	Ant1	2412	16.543	2403.648	2420.192	---	---
	Ant2	2412	16.304	2403.808	2420.112	---	---
	Ant1	2437	16.304	2428.768	2445.072	---	---
	Ant2	2437	16.384	2428.768	2445.152	---	---
	Ant1	2462	16.464	2453.688	2470.152	---	---
	Ant2	2462	16.344	2453.808	2470.152	---	---
11N20MIMO	Ant1	2412	17.502	2403.209	2420.711	---	---
	Ant2	2412	17.383	2403.289	2420.671	---	---
	Ant1	2437	17.423	2428.249	2445.671	---	---
	Ant2	2437	17.463	2428.209	2445.671	---	---
	Ant1	2462	17.463	2453.209	2470.671	---	---
	Ant2	2462	17.383	2453.249	2470.631	---	---
11N40MIMO	Ant1	2422	36.204	2403.858	2440.062	---	---
	Ant2	2422	36.124	2403.938	2440.062	---	---
	Ant1	2437	36.523	2418.538	2455.062	---	---
	Ant2	2437	36.444	2418.459	2454.902	---	---
	Ant1	2452	36.204	2433.698	2469.902	---	---
	Ant2	2452	36.204	2433.698	2469.902	---	---

2.2. Test Graphs



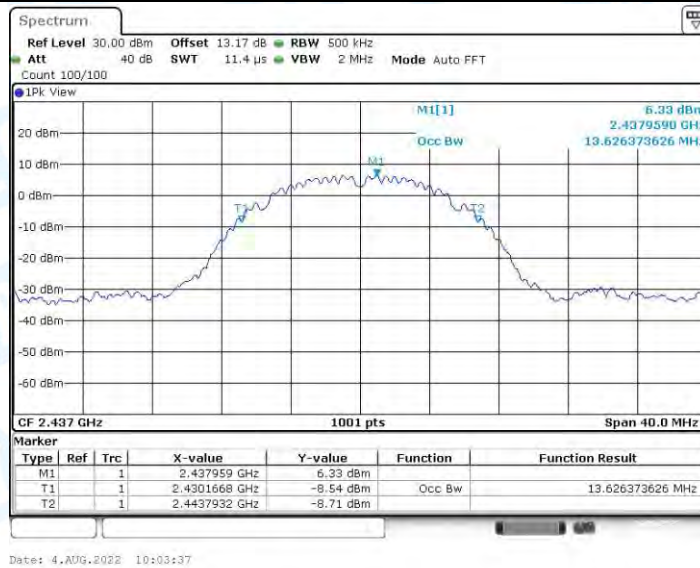
11B-CDD_Ant1_2412



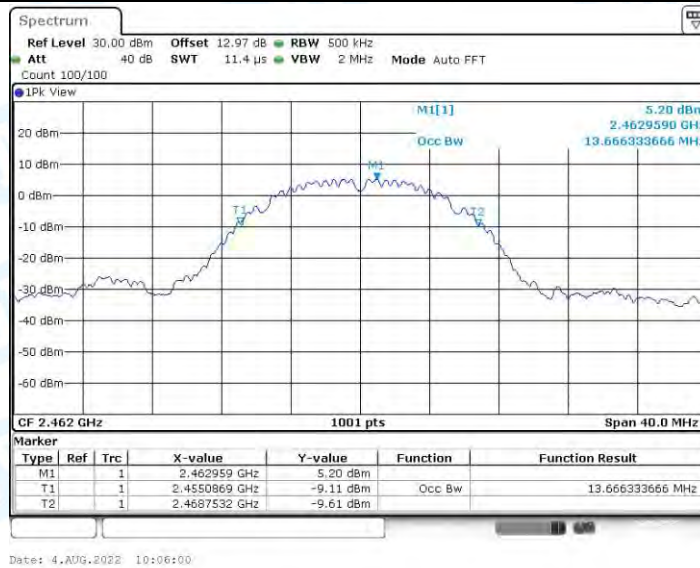
11B-CDD_Ant2_2412



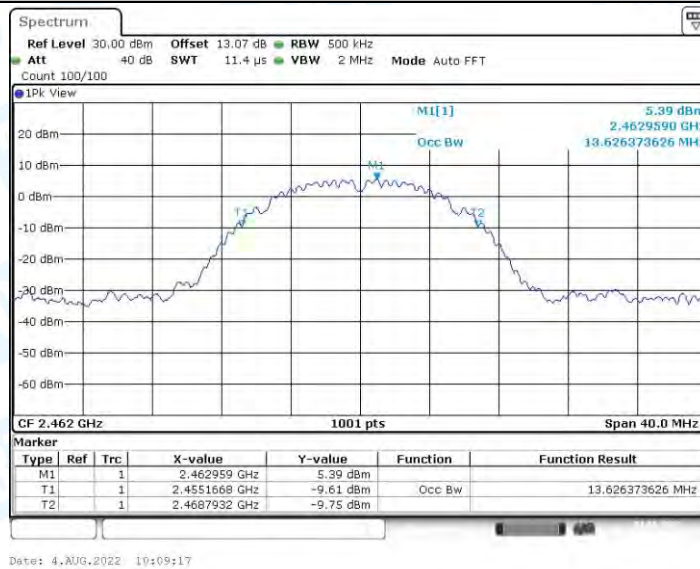
11B-CDD_Ant1_2437



11B-CDD_Ant2_2437



11B-CDD_Ant1_2462



11B-CDD_Ant2_2462



11G-CDD_Ant1_2412



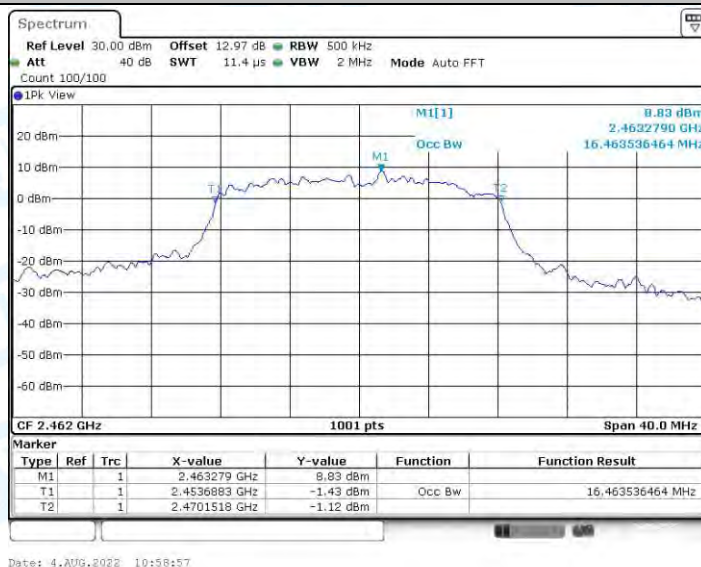
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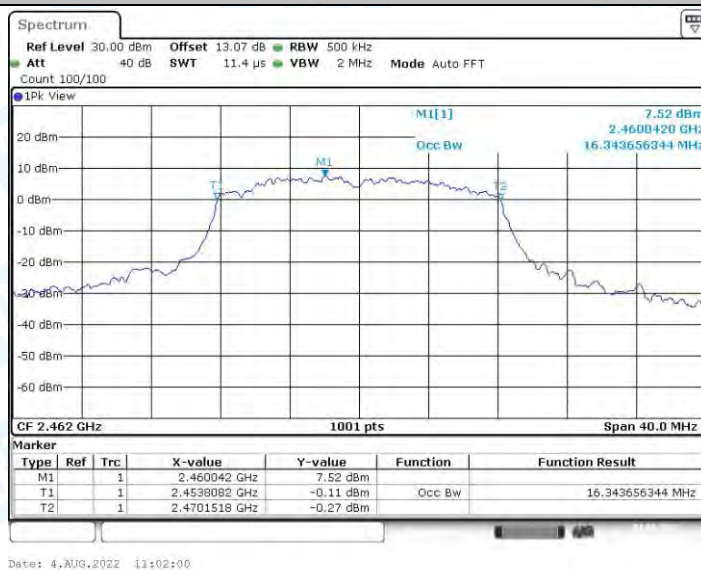
11G-CDD_Ant1_2437



11G-CDD_Ant2_2437



11G-CDD_Ant1_2462



11G-CDD_Ant2_2462



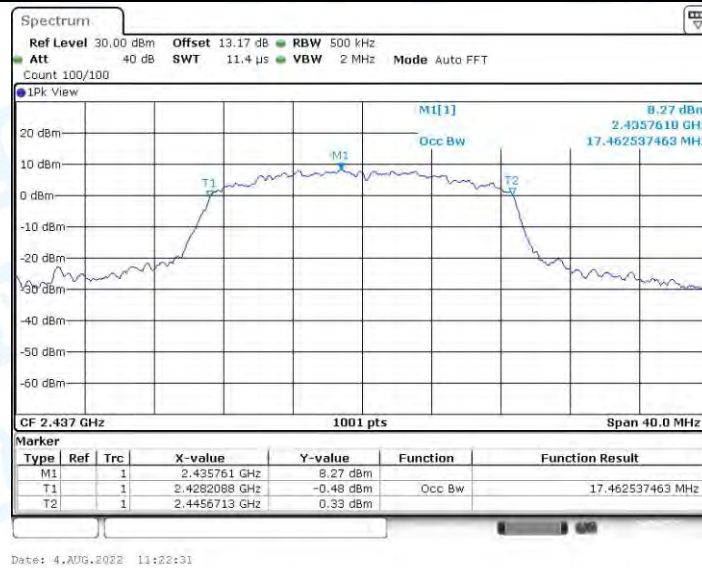
11N20MIMO_Ant1_2412



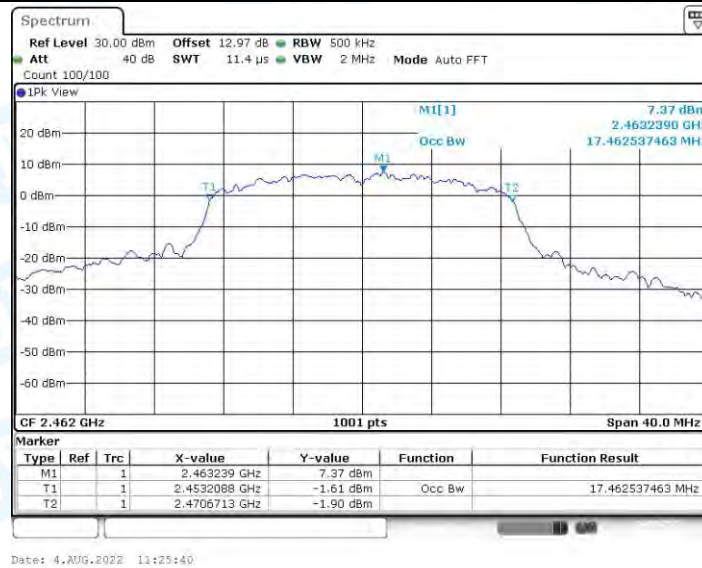
11N20MIMO_Ant2_2412



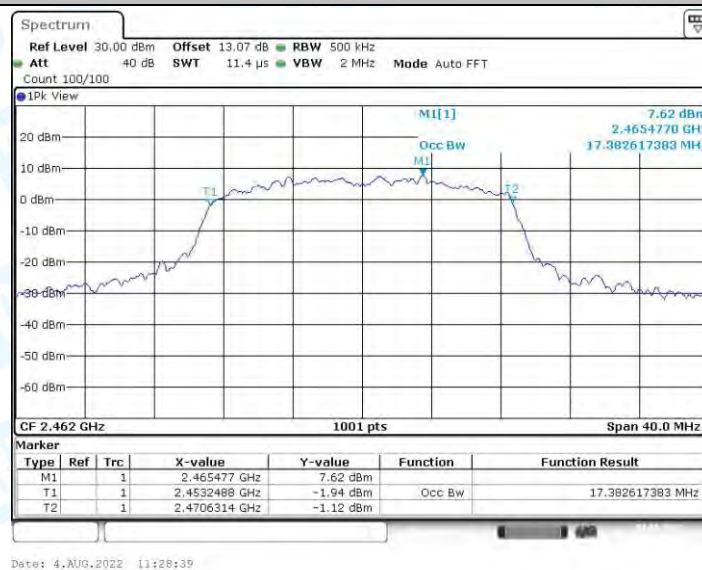
11N20MIMO_Ant1_2437



11N20MIMO_Ant2_2437



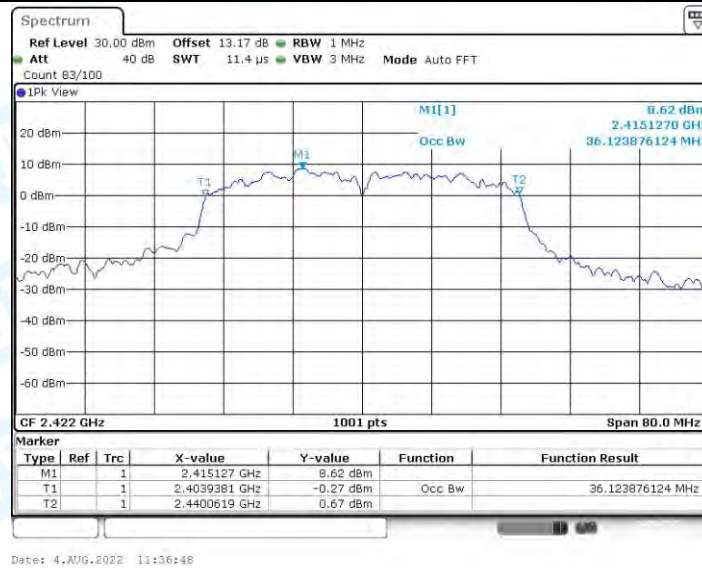
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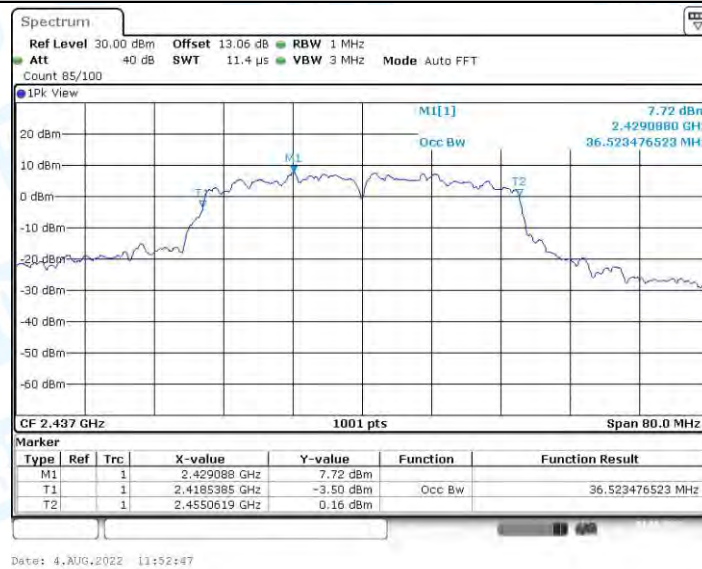
11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



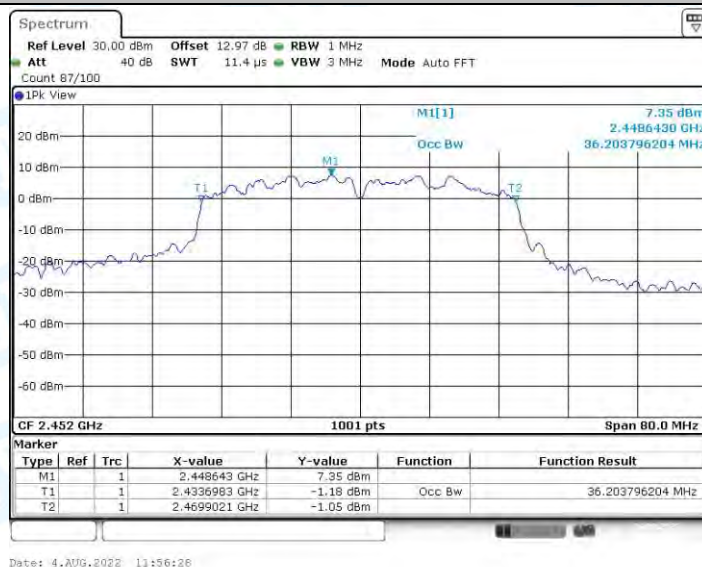
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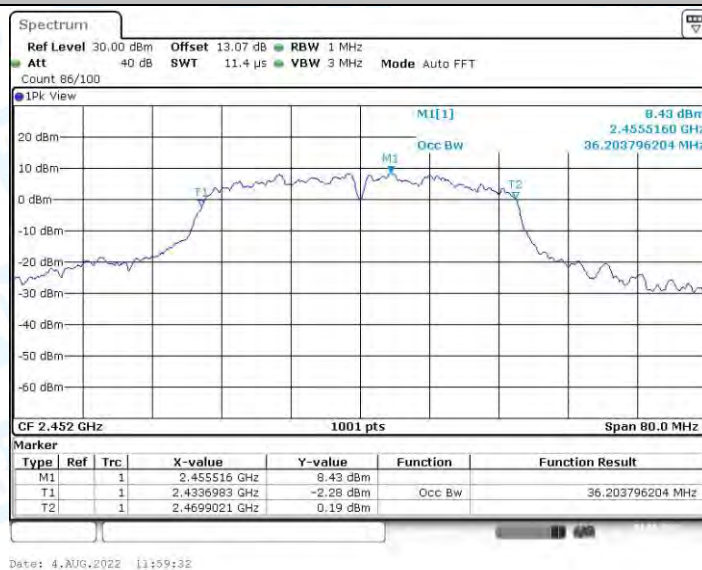
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452

3. Maximum conducted output power

3.1. Test Result

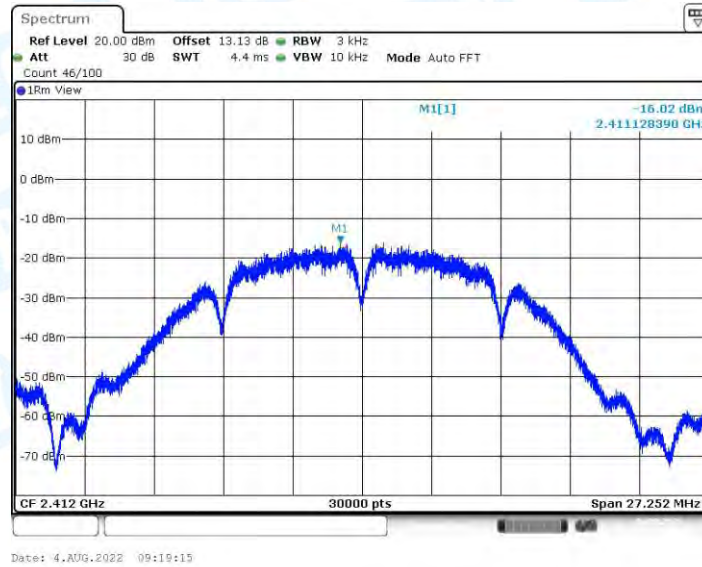
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	2412	15.05	≤30.00	PASS
	Ant2	2412	14.64	≤30.00	PASS
	total	2412	17.86	≤27.99	PASS
	Ant1	2437	13.57	≤30.00	PASS
	Ant2	2437	14.89	≤30.00	PASS
	total	2437	17.29	≤27.99	PASS
	Ant1	2462	14.29	≤30.00	PASS
	Ant2	2462	14.40	≤30.00	PASS
	total	2462	17.36	≤27.99	PASS
11G-CDD	Ant1	2412	13.99	≤30.00	PASS
	Ant2	2412	14.63	≤30.00	PASS
	total	2412	17.33	≤27.99	PASS
	Ant1	2437	13.42	≤30.00	PASS
	Ant2	2437	14.71	≤30.00	PASS
	total	2437	17.12	≤27.99	PASS
	Ant1	2462	15.53	≤30.00	PASS
	Ant2	2462	14.21	≤30.00	PASS
	total	2462	17.93	≤27.99	PASS
11N20MIMO	Ant1	2412	13.76	≤30.00	PASS
	Ant2	2412	14.47	≤30.00	PASS
	total	2412	17.14	≤27.99	PASS
	Ant1	2437	13.62	≤30.00	PASS
	Ant2	2437	15.04	≤30.00	PASS
	total	2437	17.40	≤27.99	PASS
	Ant1	2462	15.22	≤30.00	PASS
	Ant2	2462	13.97	≤30.00	PASS
	total	2462	17.65	≤27.99	PASS
11N40MIMO	Ant1	2422	14.28	≤30.00	PASS
	Ant2	2422	14.91	≤30.00	PASS
	total	2422	17.62	≤27.99	PASS
	Ant1	2437	14.42	≤30.00	PASS
	Ant2	2437	15.32	≤30.00	PASS
	total	2437	17.90	≤27.99	PASS
	Ant1	2452	13.82	≤30.00	PASS
	Ant2	2452	14.95	≤30.00	PASS
	total	2452	17.43	≤27.99	PASS

4. Maximum power spectral density

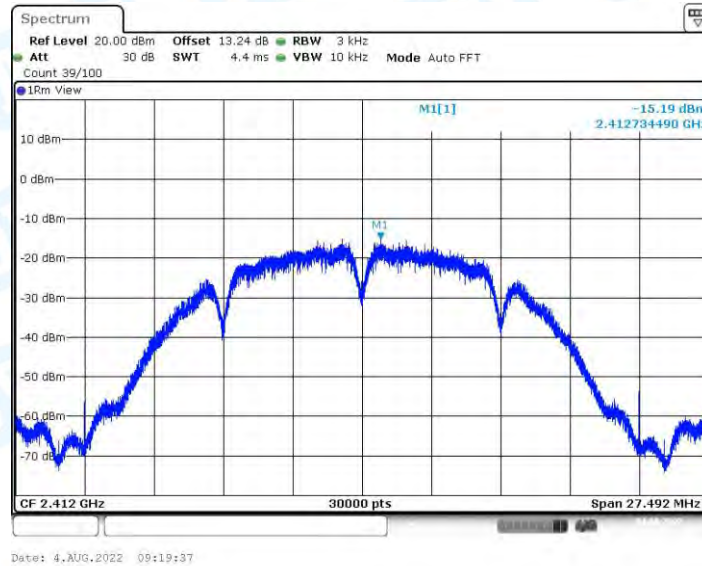
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-16.02	≤8.00	PASS
	Ant2	2412	-15.19	≤8.00	PASS
	total	2412	-12.57	≤5.99	PASS
	Ant1	2437	-17.38	≤8.00	PASS
	Ant2	2437	-16.32	≤8.00	PASS
	total	2437	-13.81	≤5.99	PASS
	Ant1	2462	-16.57	≤8.00	PASS
	Ant2	2462	-16.07	≤8.00	PASS
	total	2462	-13.30	≤5.99	PASS
11G-CDD	Ant1	2412	-18.41	≤8.00	PASS
	Ant2	2412	-17.81	≤8.00	PASS
	total	2412	-15.09	≤5.99	PASS
	Ant1	2437	-18.27	≤8.00	PASS
	Ant2	2437	-17.4	≤8.00	PASS
	total	2437	-14.80	≤5.99	PASS
	Ant1	2462	-16.71	≤8.00	PASS
	Ant2	2462	-17.93	≤8.00	PASS
	total	2462	-14.27	≤5.99	PASS
11N20MIMO	Ant1	2412	-18.68	≤8.00	PASS
	Ant2	2412	-17.53	≤8.00	PASS
	total	2412	-15.06	≤5.99	PASS
	Ant1	2437	-18.35	≤8.00	PASS
	Ant2	2437	-17.21	≤8.00	PASS
	total	2437	-14.73	≤5.99	PASS
	Ant1	2462	-17.36	≤8.00	PASS
	Ant2	2462	-18.29	≤8.00	PASS
	total	2462	-14.79	≤5.99	PASS
11N40MIMO	Ant1	2422	-20.5	≤8.00	PASS
	Ant2	2422	-18.99	≤8.00	PASS
	total	2422	-16.67	≤5.99	PASS
	Ant1	2437	-19.85	≤8.00	PASS
	Ant2	2437	-19.49	≤8.00	PASS
	total	2437	-16.66	≤5.99	PASS
	Ant1	2452	-21.19	≤8.00	PASS
	Ant2	2452	-18.92	≤8.00	PASS
	total	2452	-16.90	≤5.99	PASS

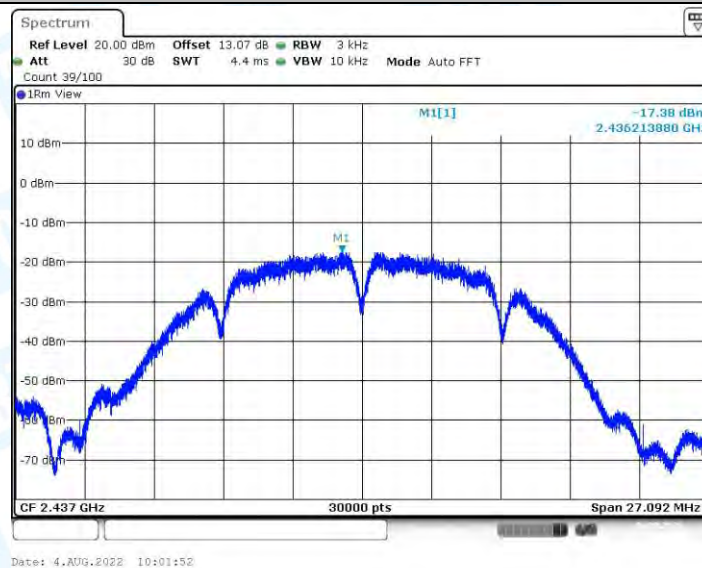
4.2. Test Graphs



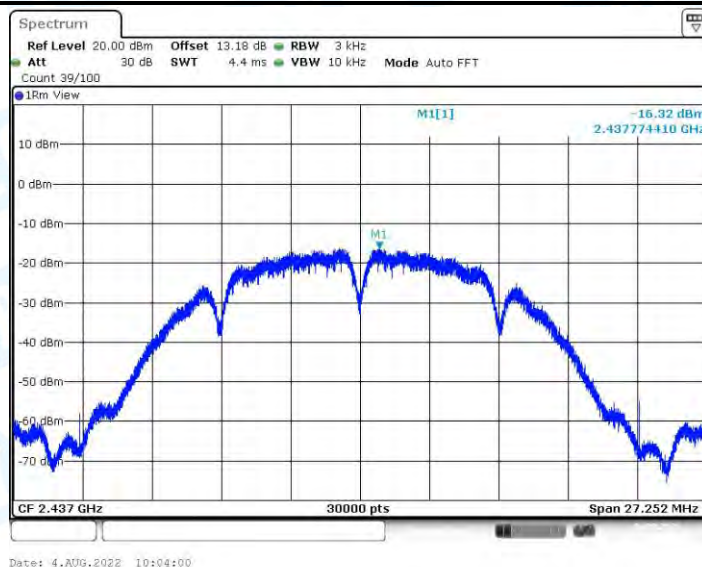
11B-CDD_Ant1_2412



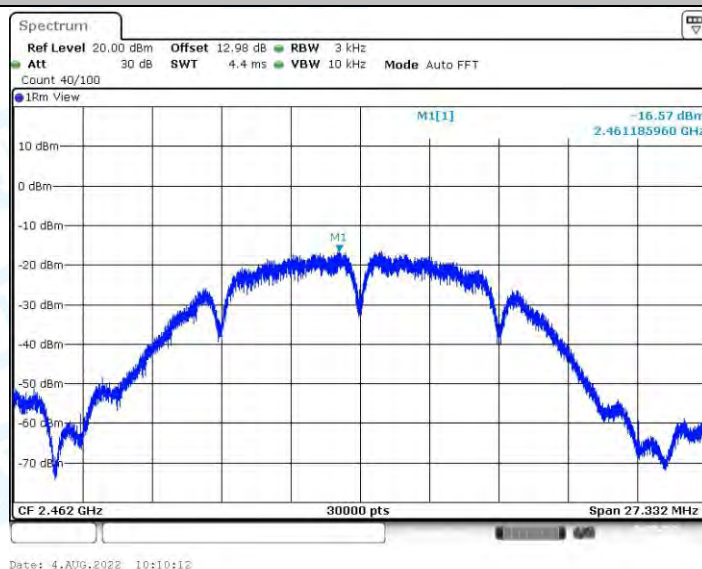
11B-CDD_Ant2_2412



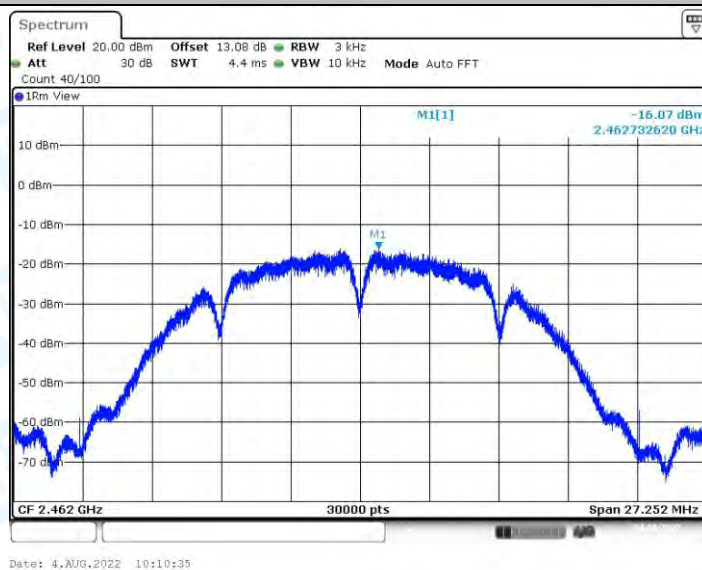
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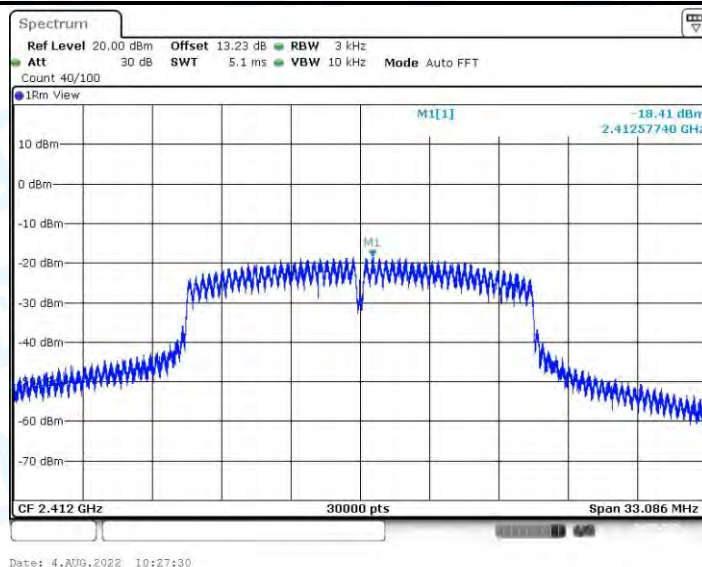
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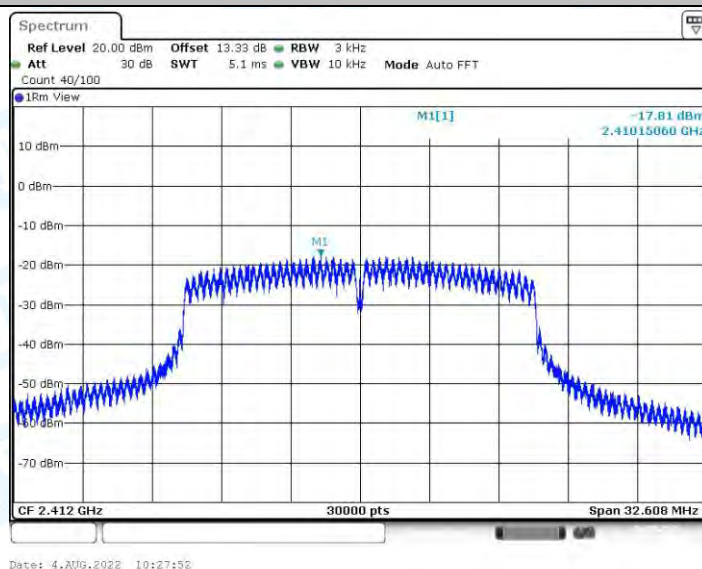
11B-CDD_Ant1_2462



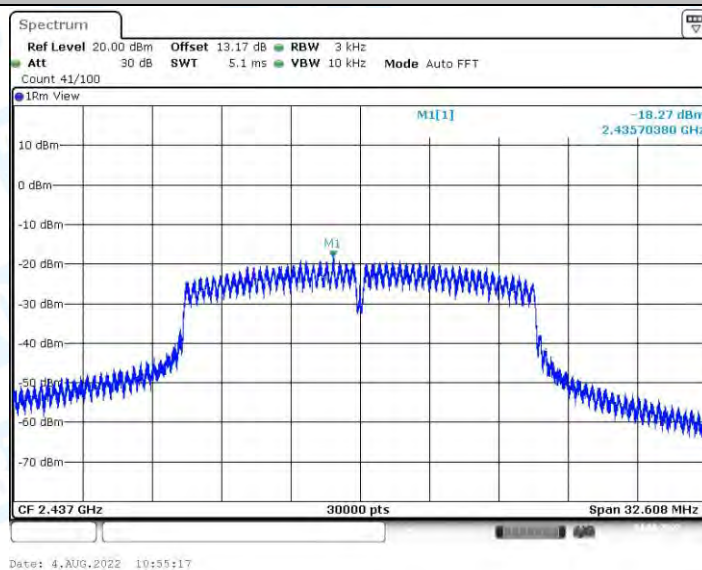
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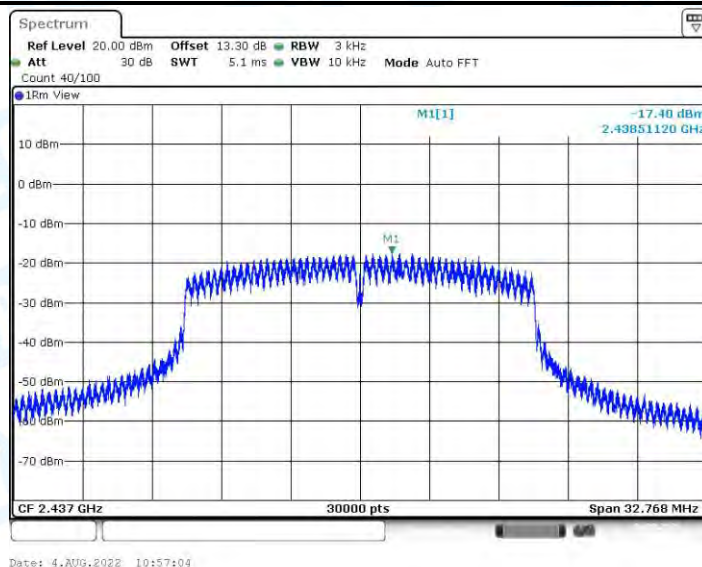
11G-CDD_Ant1_2412



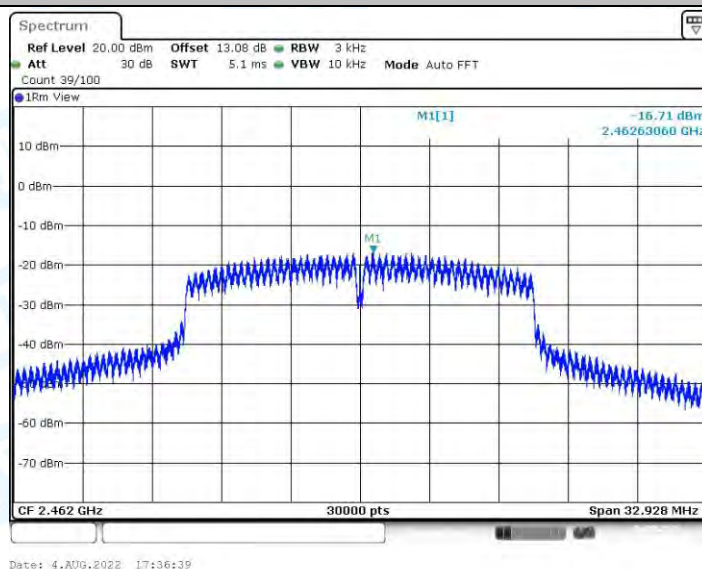
11G-CDD_Ant2_2412



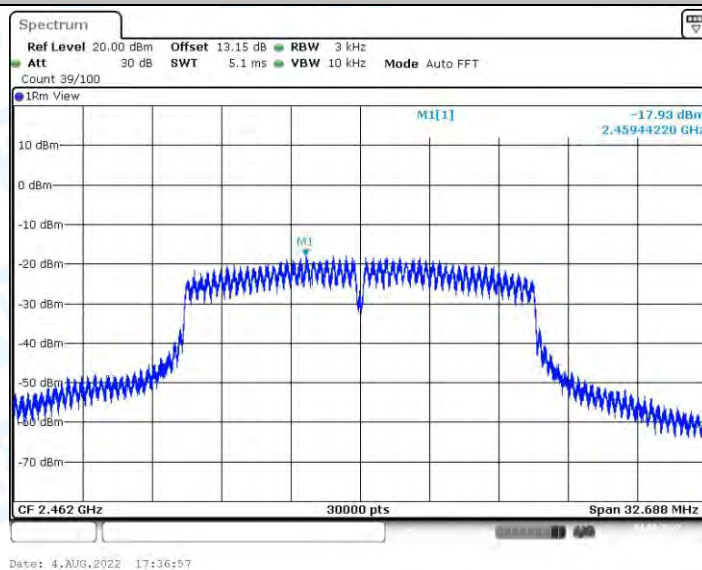
11G-CDD_Ant1_2437



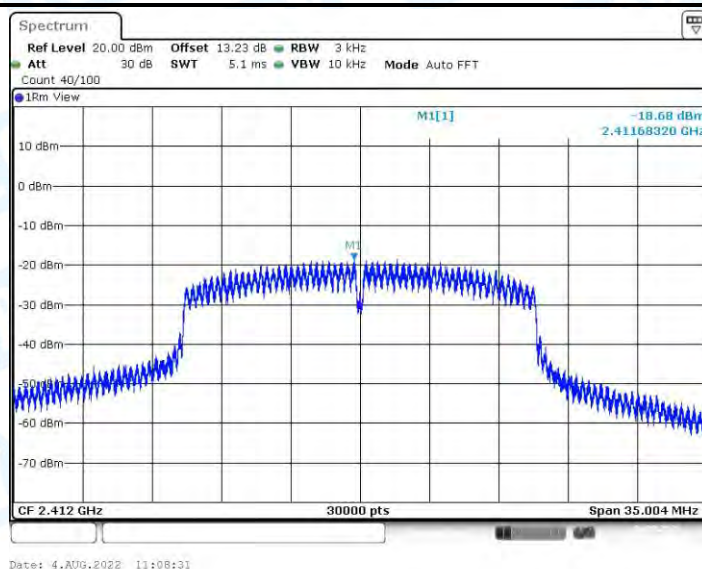
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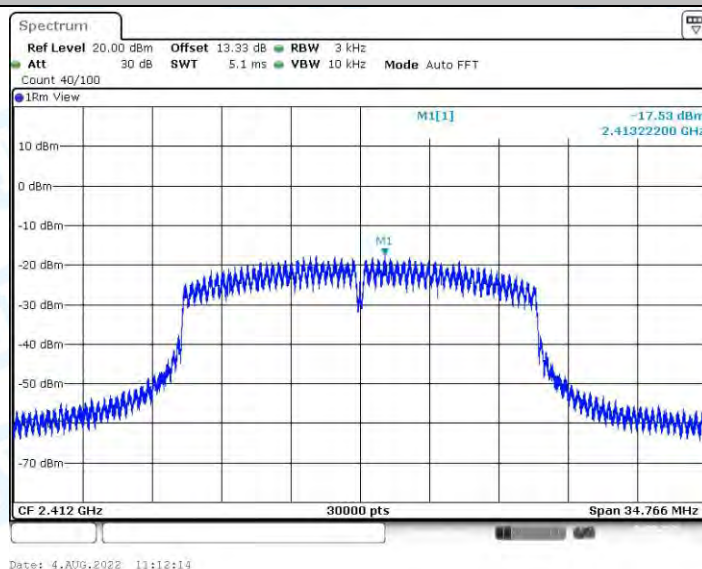
11G-CDD_Ant1_2462



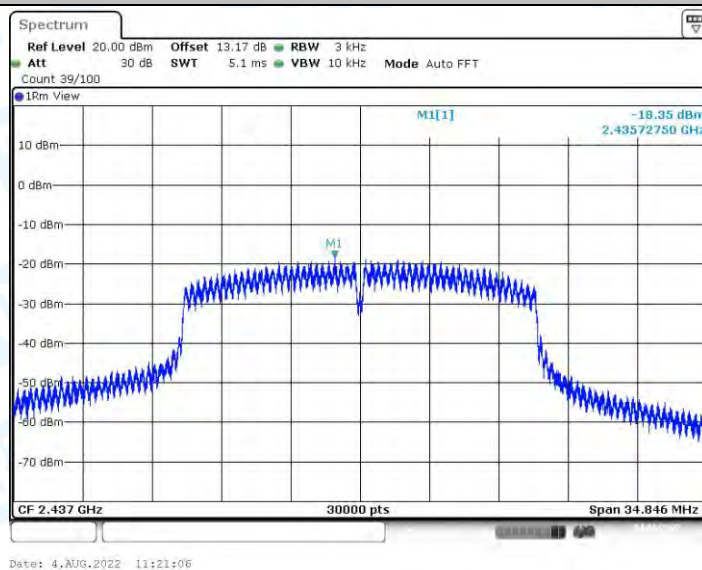
11G-CDD_Ant2_2462



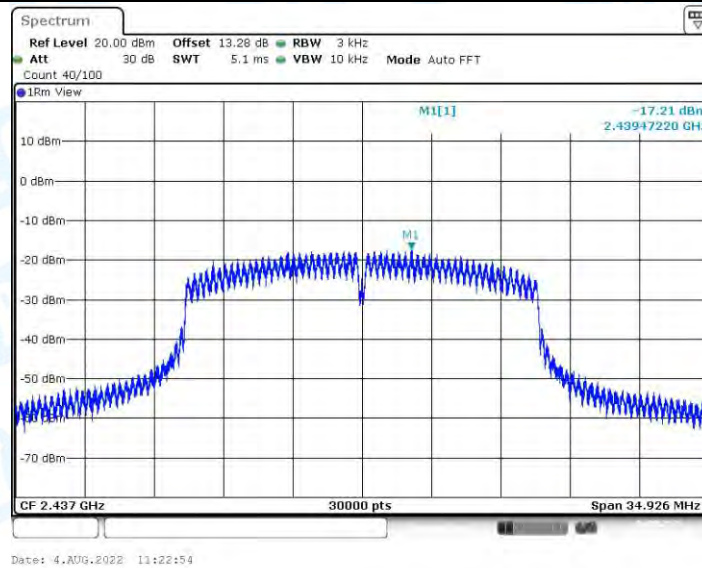
11N20MIMO_Ant1_2412



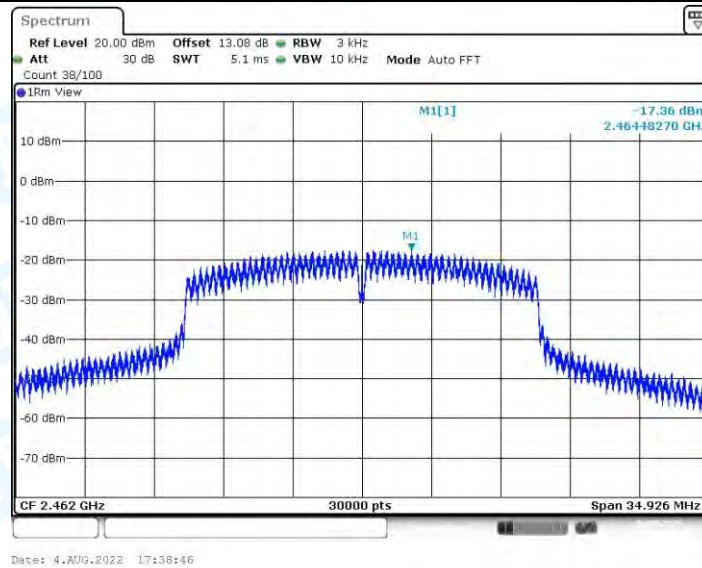
11N20MIMO_Ant2_2412



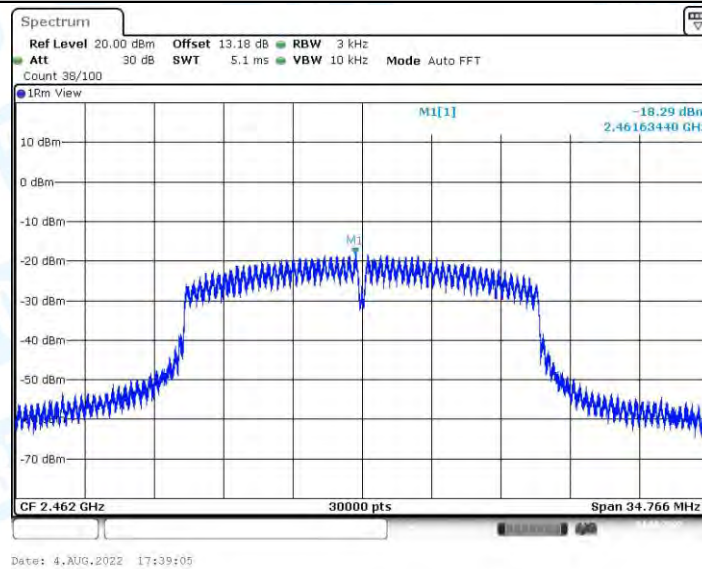
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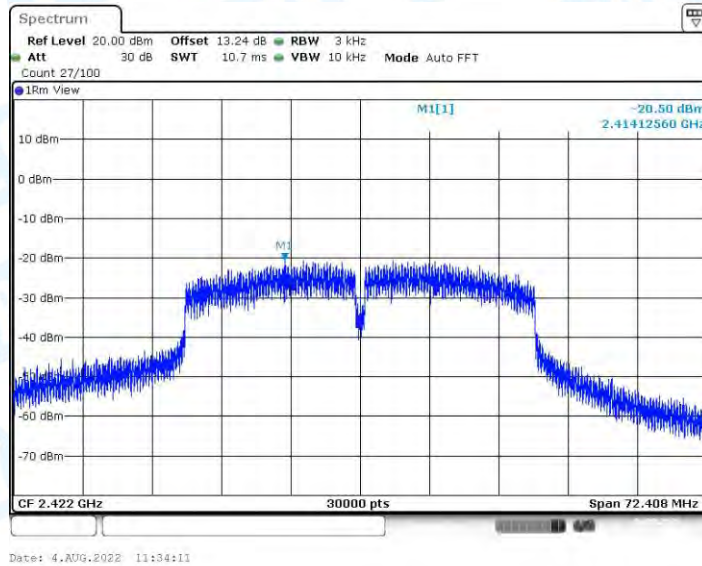
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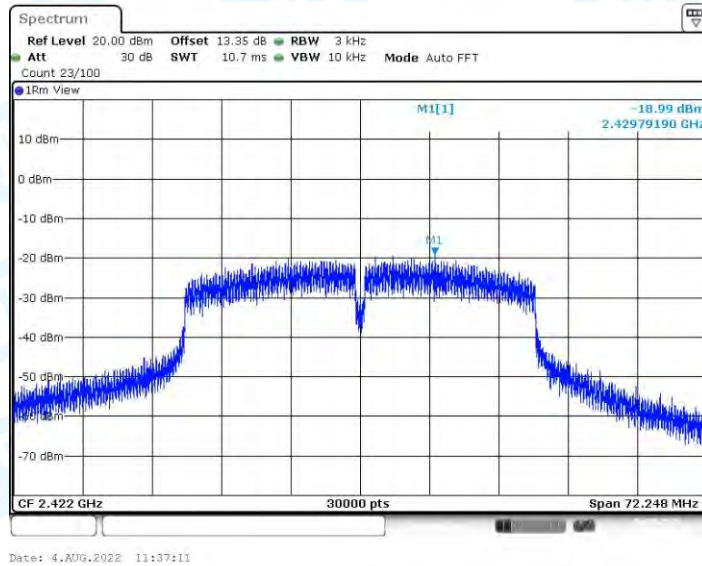
11N20MIMO_Ant1_2462



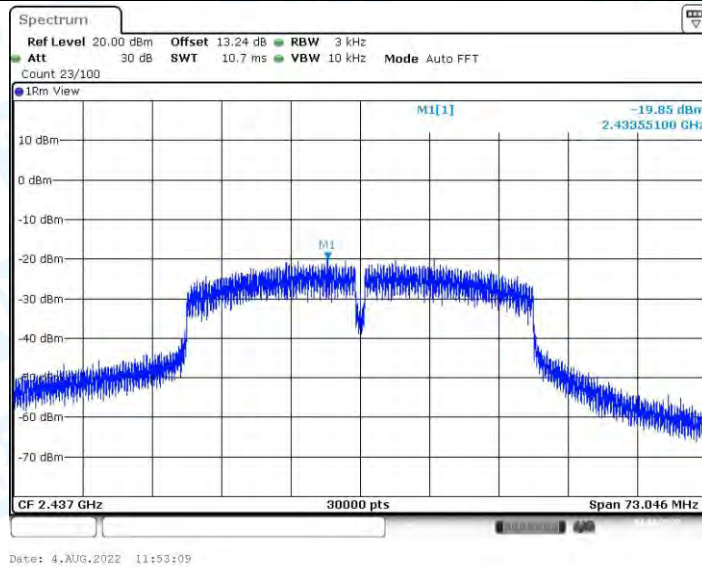
11N20MIMO_Ant2_2462



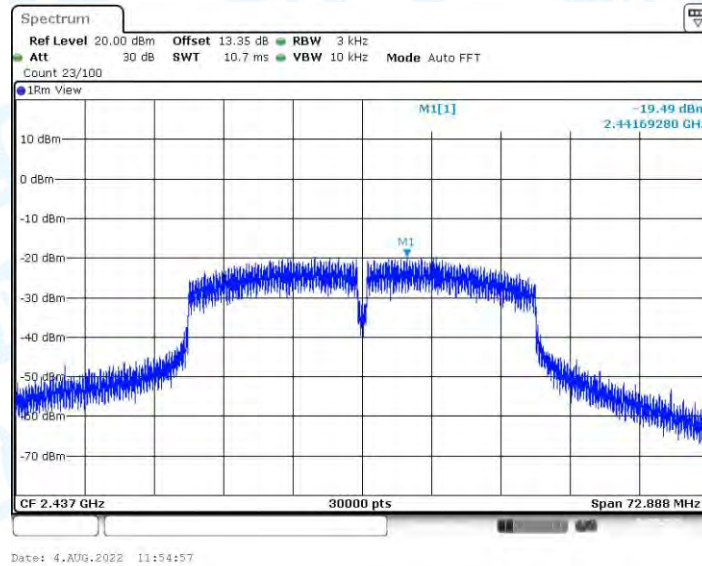
11N40MIMO_Ant1_2422



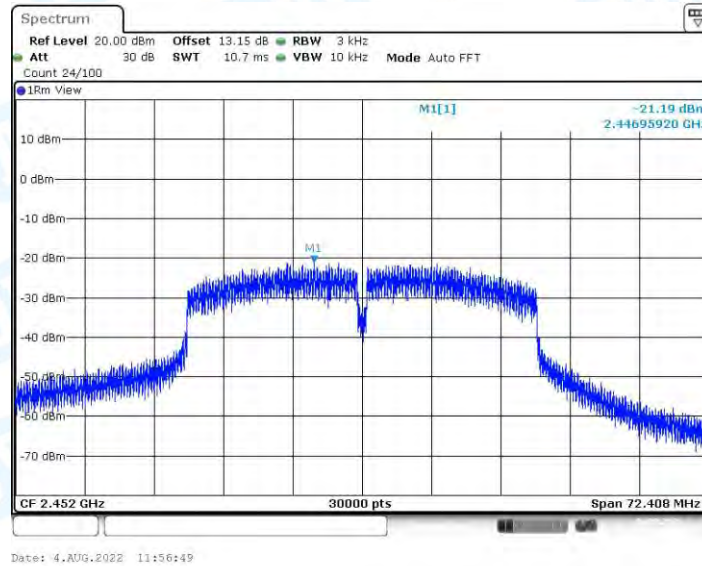
11N40MIMO_Ant2_2422



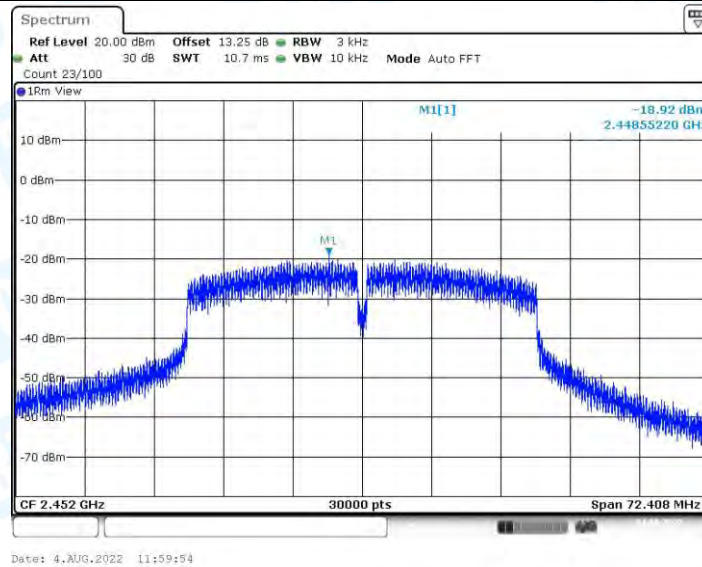
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



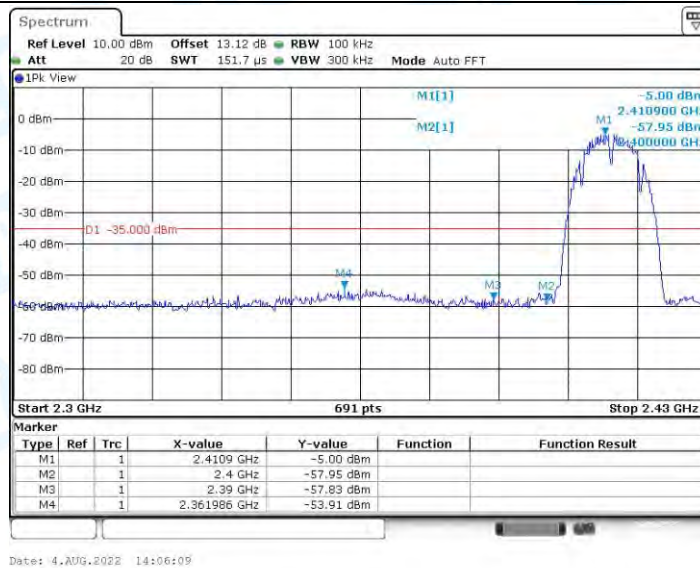
11N40MIMO_Ant2_2452

5. Band edge measurements

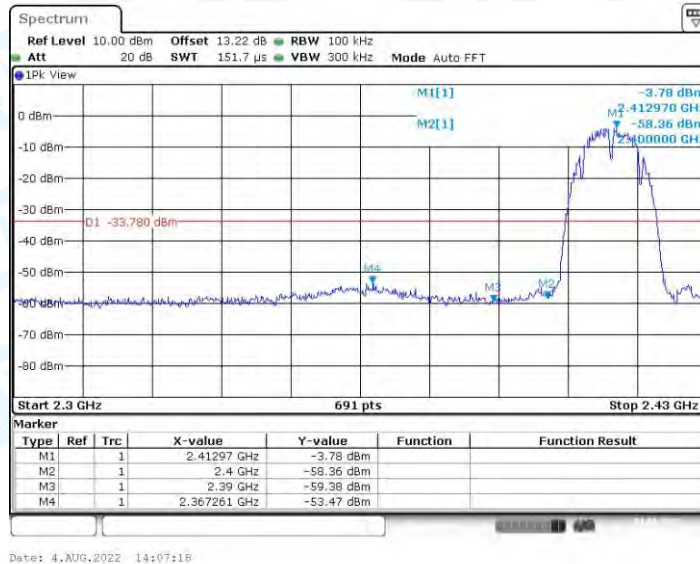
5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	-5.00	-53.91	≤ -35	PASS
	Ant2	Low	2412	-3.78	-53.47	≤ -33.78	PASS
	Ant1	High	2462	-6.31	-53.33	≤ -36.31	PASS
	Ant2	High	2462	-5.10	-53.75	≤ -35.1	PASS
11G-CDD	Ant1	Low	2412	-5.39	-46.6	≤ -35.39	PASS
	Ant2	Low	2412	-3.99	-50.59	≤ -33.99	PASS
	Ant1	High	2462	-5.88	-51.72	≤ -35.88	PASS
	Ant2	High	2462	-7.54	-51.29	≤ -37.54	PASS
11N20MIMO	Ant1	Low	2412	-5.14	-48.21	≤ -35.14	PASS
	Ant2	Low	2412	-3.77	-50.14	≤ -33.77	PASS
	Ant1	High	2462	-8.41	-52.29	≤ -38.41	PASS
	Ant2	High	2462	-5.11	-51.17	≤ -35.11	PASS
11N40MIMO	Ant1	Low	2422	-14.66	-45.47	≤ -44.66	PASS
	Ant2	Low	2422	-13.15	-44.08	≤ -43.15	PASS
	Ant1	High	2452	-14.07	-55.07	≤ -44.07	PASS
	Ant2	High	2452	-12.19	-54.82	≤ -42.19	PASS

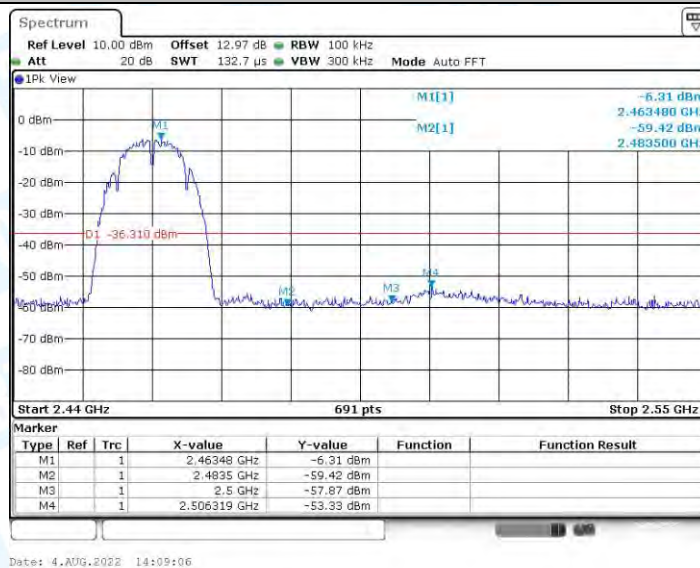
5.2. Test Graphs



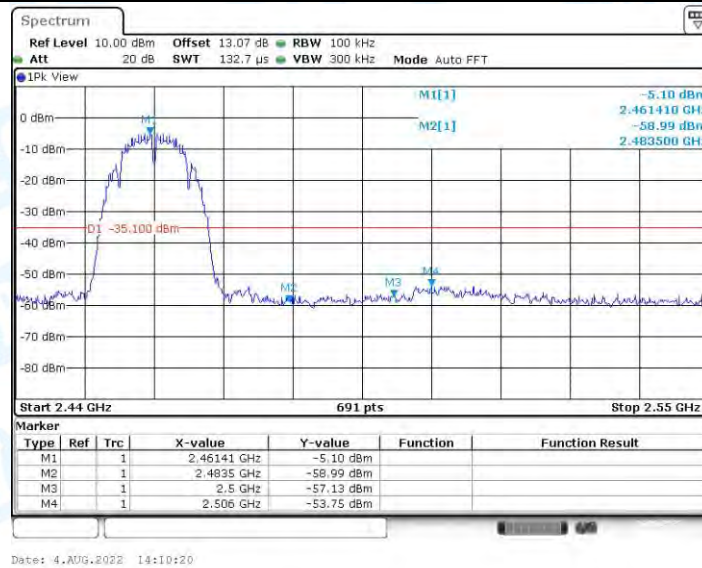
11B-CDD_Ant1_Low_2412



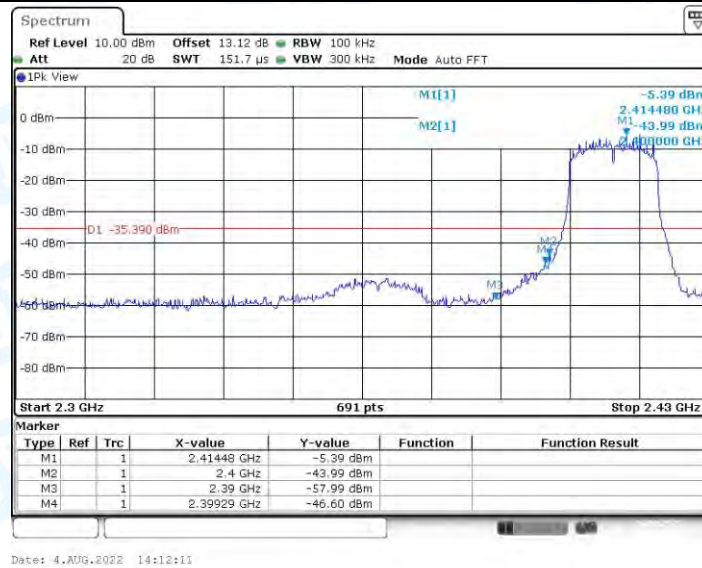
11B-CDD_Ant2_Low_2412



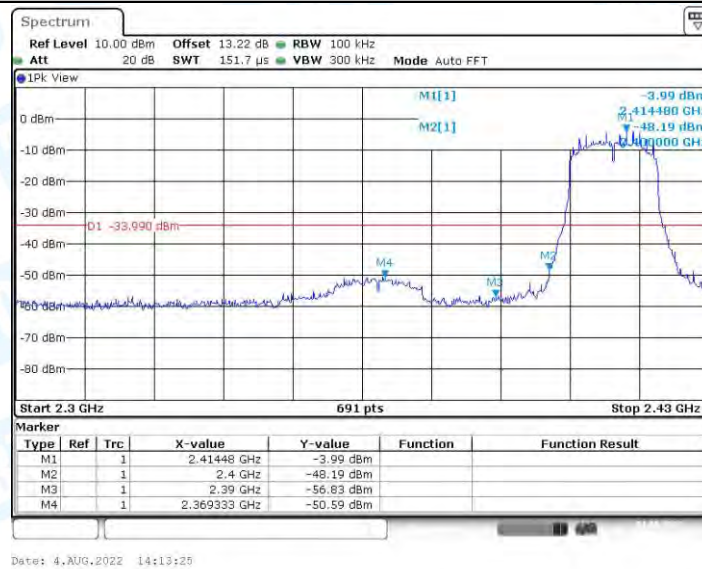
11B-CDD_Ant1_High_2462



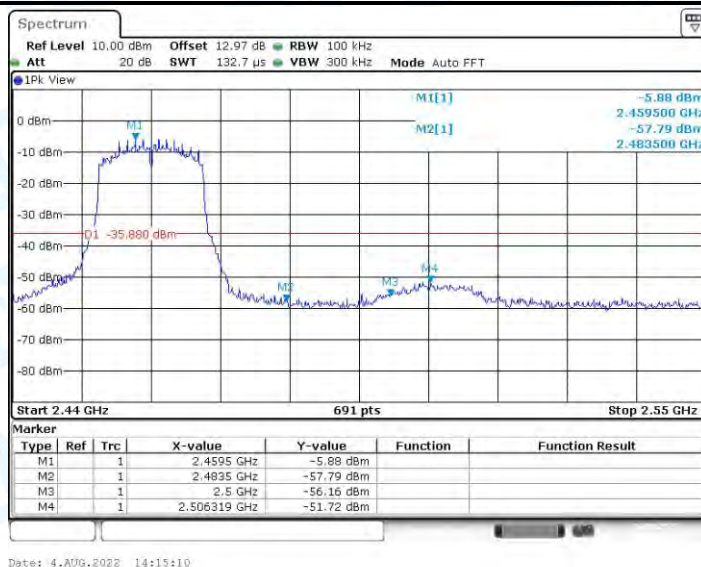
11B-CDD_Ant2_High_2462



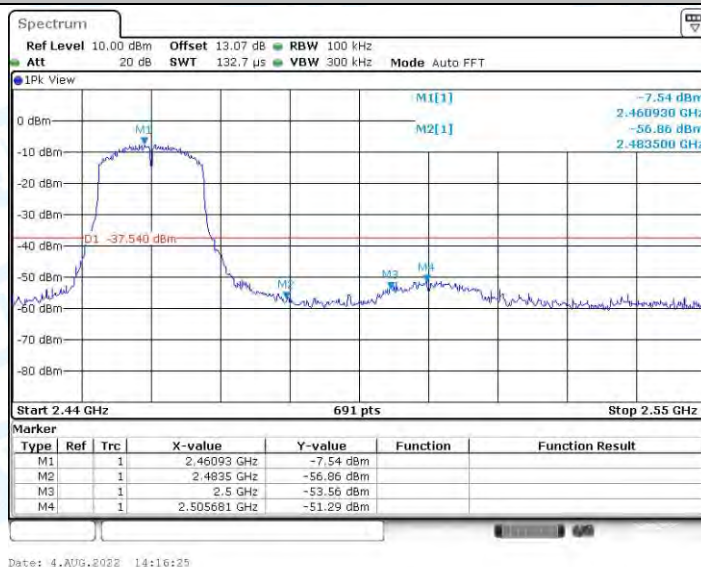
11G-CDD_Ant1_Low_2412



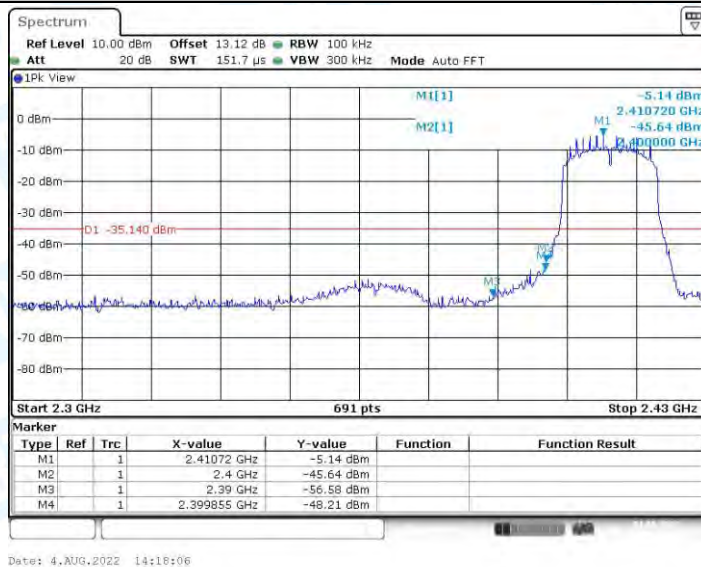
11G-CDD_Ant2_Low_2412



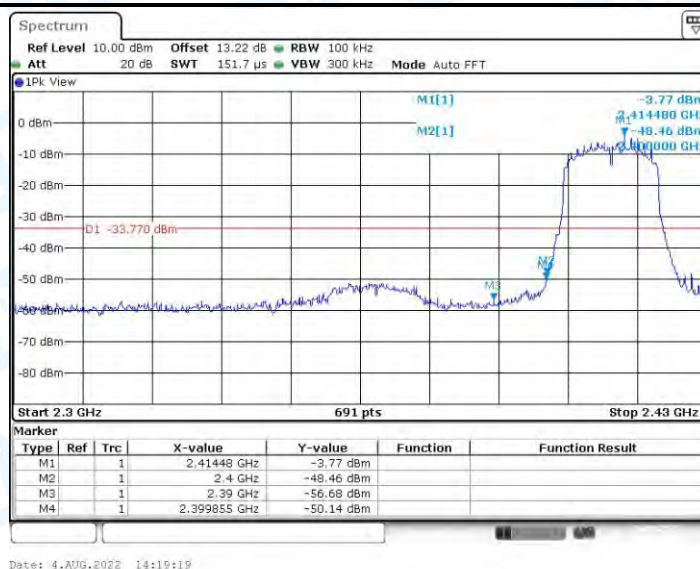
11G-CDD_Ant1_High_2462



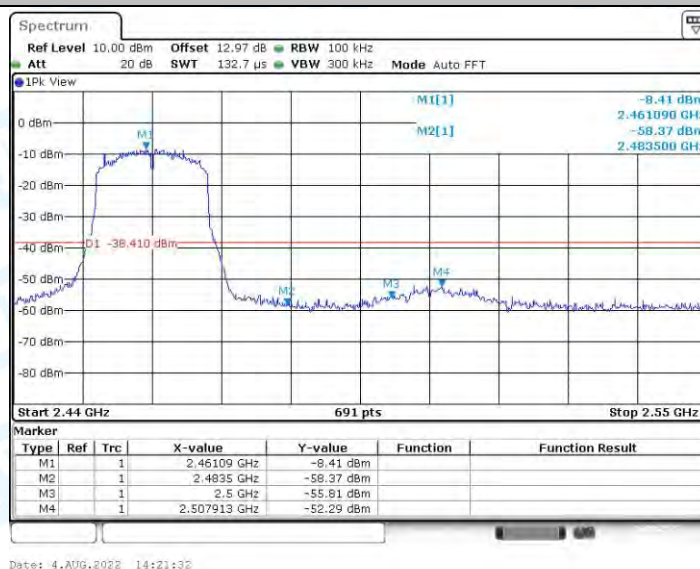
11G-CDD_Ant2_High_2462



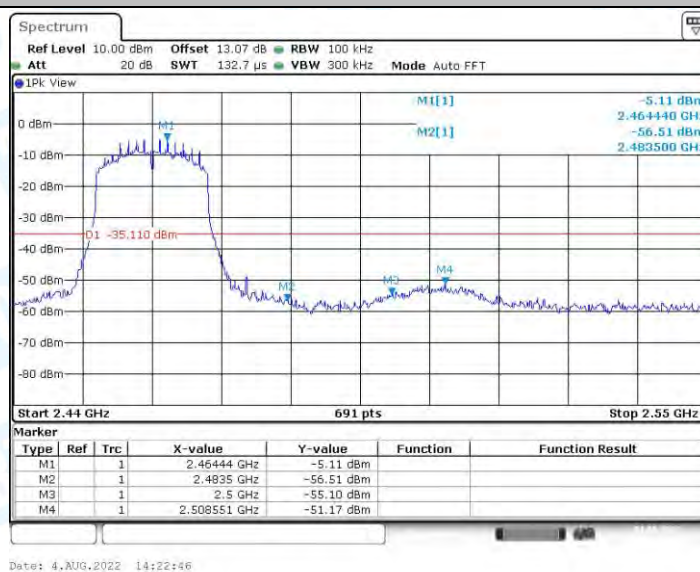
11N20MIMO_Ant1_Low_2412



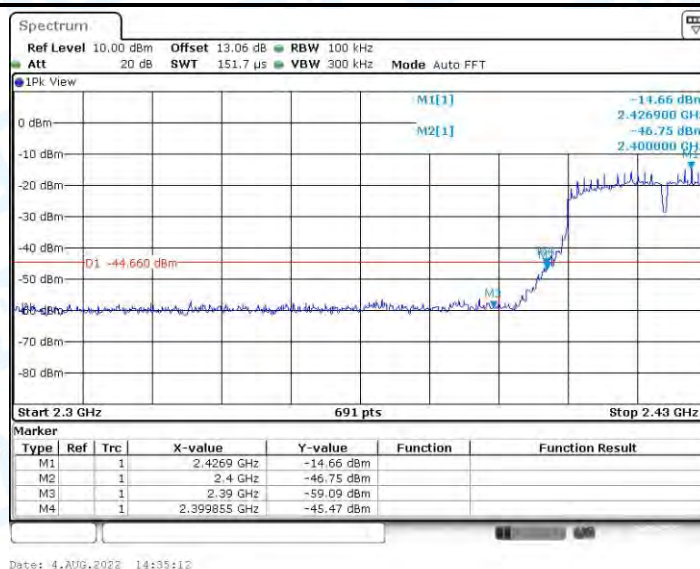
11N20MIMO_Ant2_Low_2412



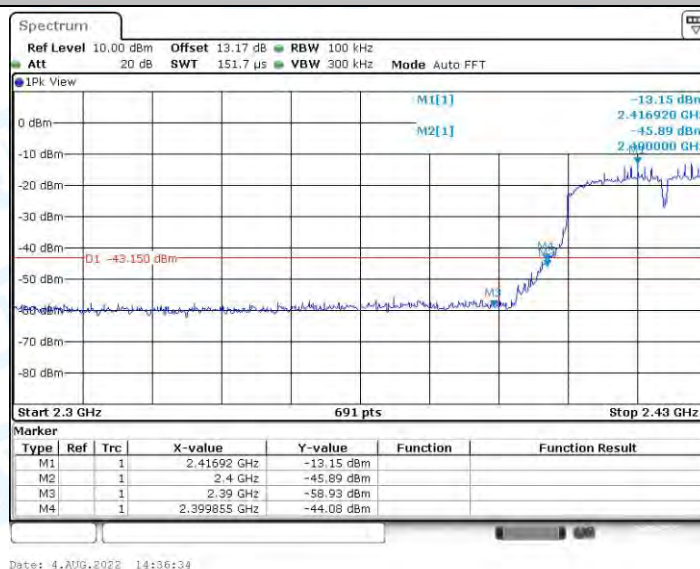
11N20MIMO_Ant1_High_2462



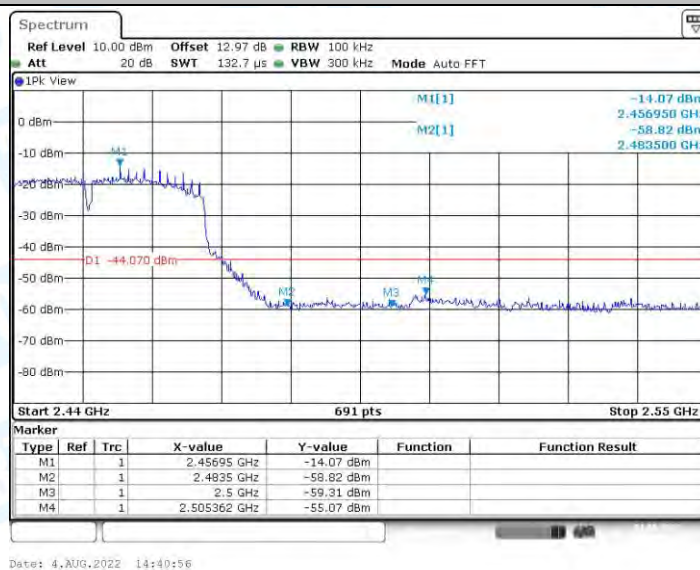
11N20MIMO_Ant2_High_2462



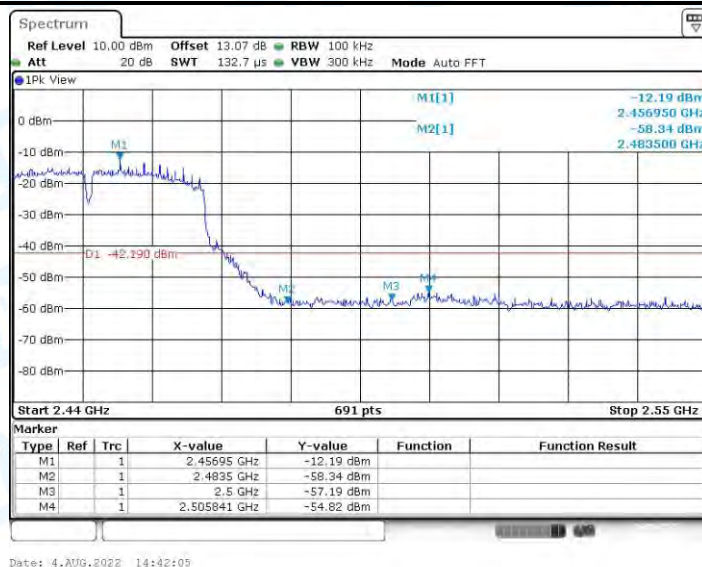
11N40MIMO_Ant1_Low_2422



11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452



11N40MIMO_Ant2_High_2452

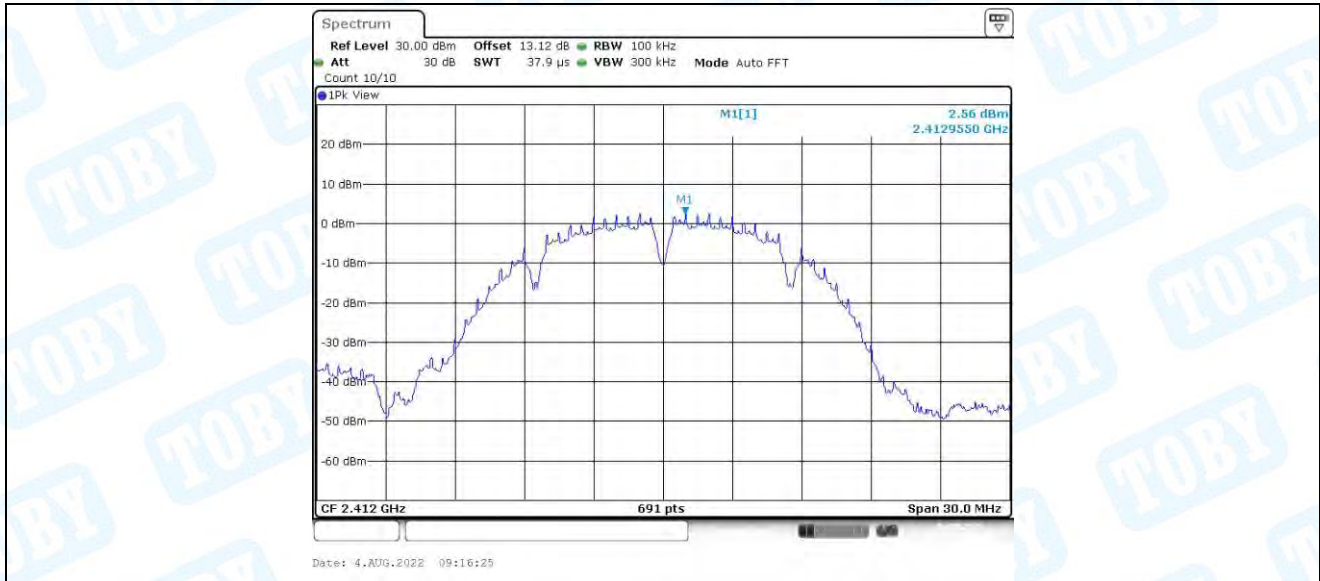
6. Conducted Spurious Emission

6.1. Test Result

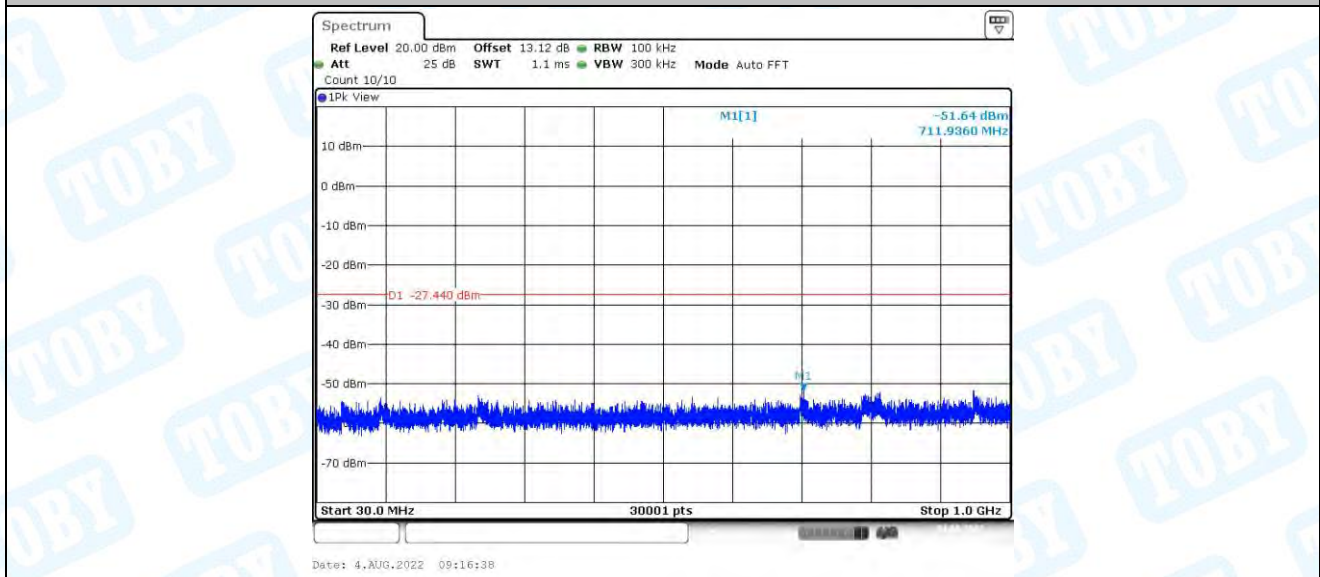
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-51.64	≤-27.44	PASS
			1000~26500	2.56	-39.73	≤-27.44	PASS
	Ant2	2412	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-51.85	≤-29.73	PASS
			1000~26500	0.27	-43.59	≤-29.73	PASS
	Ant1	2437	Reference	4.37	4.37	---	PASS
			30~1000	4.37	-52.18	≤-25.63	PASS
			1000~26500	4.37	-40.18	≤-25.63	PASS
	Ant2	2437	Reference	5.52	5.52	---	PASS
			30~1000	5.52	-50.68	≤-24.48	PASS
			1000~26500	5.52	-35.87	≤-24.48	PASS
	Ant1	2462	Reference	4.76	4.76	---	PASS
			30~1000	4.76	-51.65	≤-25.24	PASS
			1000~26500	4.76	-37.37	≤-25.24	PASS
	Ant2	2462	Reference	4.82	4.82	---	PASS
			30~1000	4.82	-51.32	≤-25.18	PASS
			1000~26500	4.82	-35.61	≤-25.18	PASS
11G-CDD	Ant1	2412	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-51.25	≤-26.03	PASS
			1000~26500	3.97	-44.83	≤-26.03	PASS
	Ant2	2412	Reference	4.78	4.78	---	PASS
			30~1000	4.78	-51.44	≤-25.22	PASS
			1000~26500	4.78	-43.13	≤-25.22	PASS
	Ant1	2437	Reference	3.42	3.42	---	PASS
			30~1000	3.42	-51.87	≤-26.58	PASS
			1000~26500	3.42	-45.8	≤-26.58	PASS
	Ant2	2437	Reference	4.67	4.67	---	PASS
			30~1000	4.67	-51.64	≤-25.33	PASS
			1000~26500	4.67	-44.92	≤-25.33	PASS
	Ant1	2462	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-51.75	≤-27.32	PASS
			1000~26500	2.68	-45.37	≤-27.32	PASS
	Ant2	2462	Reference	3.80	3.80	---	PASS
			30~1000	3.80	-51.28	≤-26.2	PASS
			1000~26500	3.80	-45.16	≤-26.2	PASS
11N20MIMO	Ant1	2412	Reference	-5.50	-5.50	---	PASS
			30~1000	-5.50	-50.15	≤-35.5	PASS
			1000~26500	-5.50	-45.38	≤-35.5	PASS
	Ant2	2412	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-52.11	≤-33.98	PASS

	Ant1	2437	1000~26500	-3.98	-45.19	≤ -33.98	PASS
			Reference	2.55	2.55	---	PASS
			30~1000	2.55	-52.07	≤ -27.45	PASS
			1000~26500	2.55	-45.97	≤ -27.45	PASS
	Ant2	2437	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-51.1	≤ -24.96	PASS
			1000~26500	5.04	-42.36	≤ -24.96	PASS
	Ant1	2462	Reference	4.18	4.18	---	PASS
			30~1000	4.18	-51.79	≤ -25.82	PASS
			1000~26500	4.18	-45.57	≤ -25.82	PASS
	Ant2	2462	Reference	4.46	4.46	---	PASS
			30~1000	4.46	-51.51	≤ -25.54	PASS
			1000~26500	4.46	-45.56	≤ -25.54	PASS
11N40MIMO	Ant1	2422	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-50.66	≤ -28.71	PASS
			1000~26500	1.29	-46	≤ -28.71	PASS
	Ant2	2422	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-51.15	≤ -27.82	PASS
			1000~26500	2.18	-45.58	≤ -27.82	PASS
	Ant1	2437	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-52.06	≤ -28.57	PASS
			1000~26500	1.43	-44.94	≤ -28.57	PASS
	Ant2	2437	Reference	2.55	2.55	---	PASS
			30~1000	2.55	-51.89	≤ -27.45	PASS
			1000~26500	2.55	-45.45	≤ -27.45	PASS
	Ant1	2452	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-51.57	≤ -28.58	PASS
			1000~26500	1.42	-44.97	≤ -28.58	PASS
	Ant2	2452	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-51.9	≤ -28.29	PASS
			1000~26500	1.71	-44.96	≤ -28.29	PASS

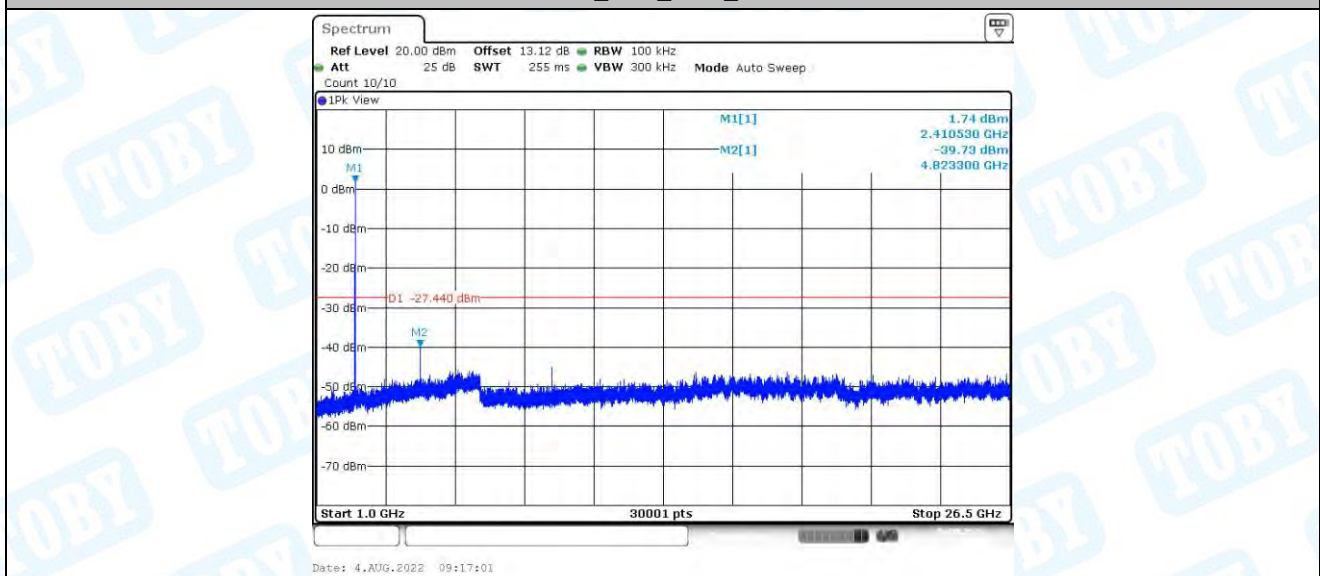
6.2. Test Graphs



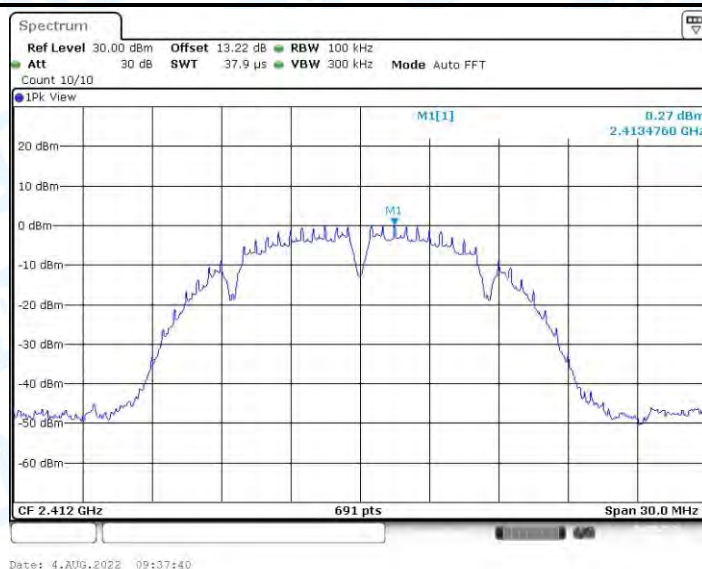
11B-CDD_Ant1_2412_0~Reference



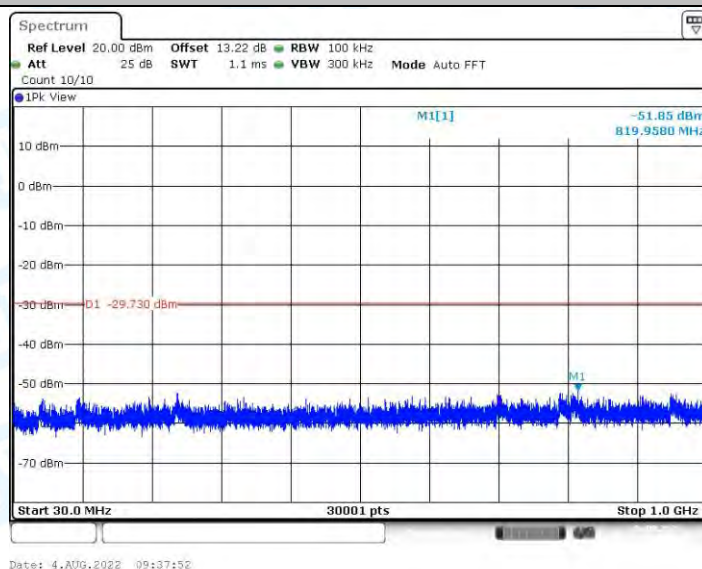
11B-CDD_Ant1_2412_30~1000



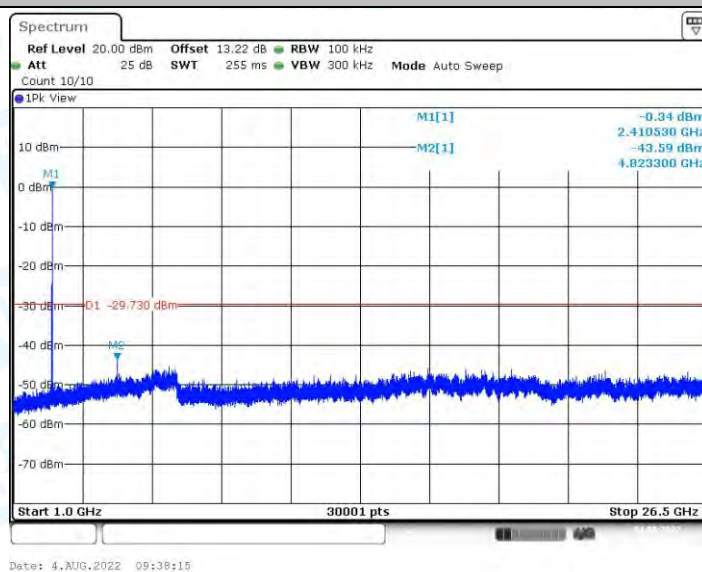
11B-CDD_Ant1_2412_1000~26500



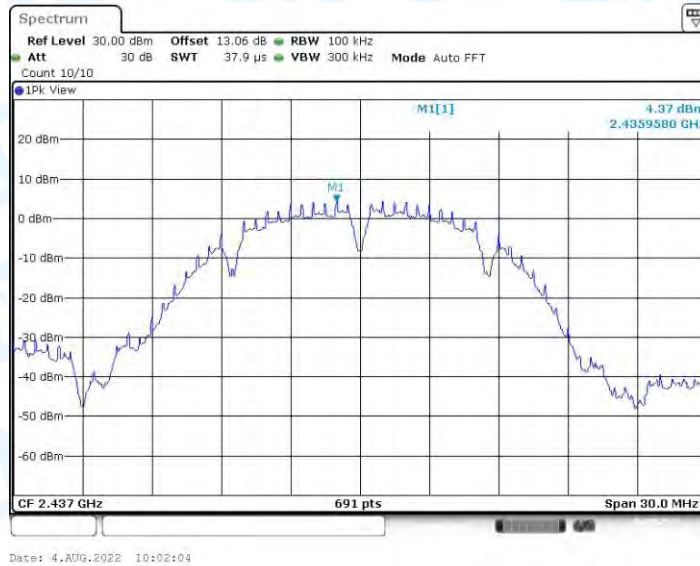
11B-CDD_Ant2_2412_0~Reference



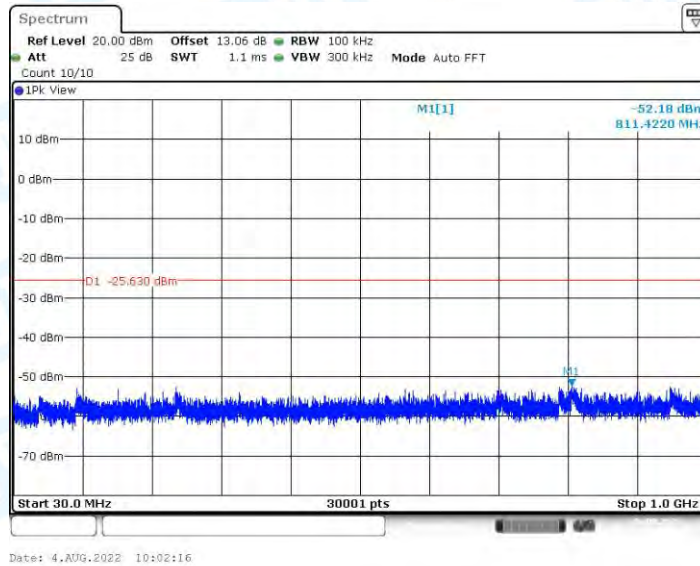
11B-CDD_Ant2_2412_30~1000



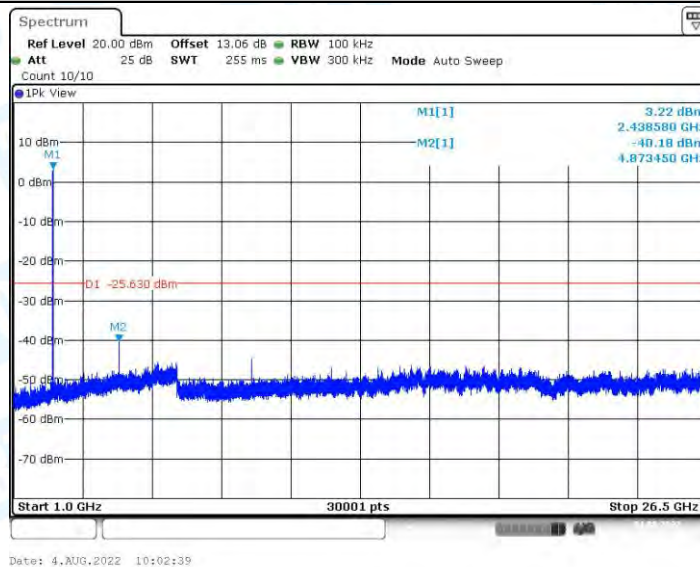
11B-CDD_Ant2_2412_1000~26500



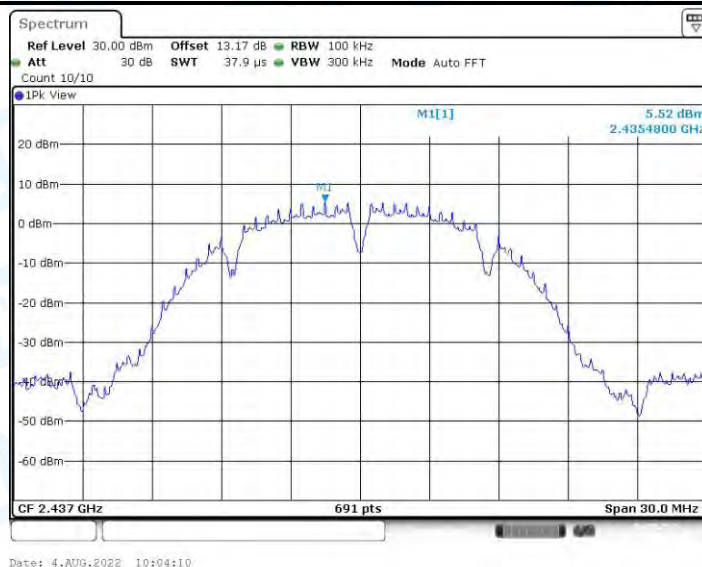
11B-CDD_Ant1_2437_0~Reference



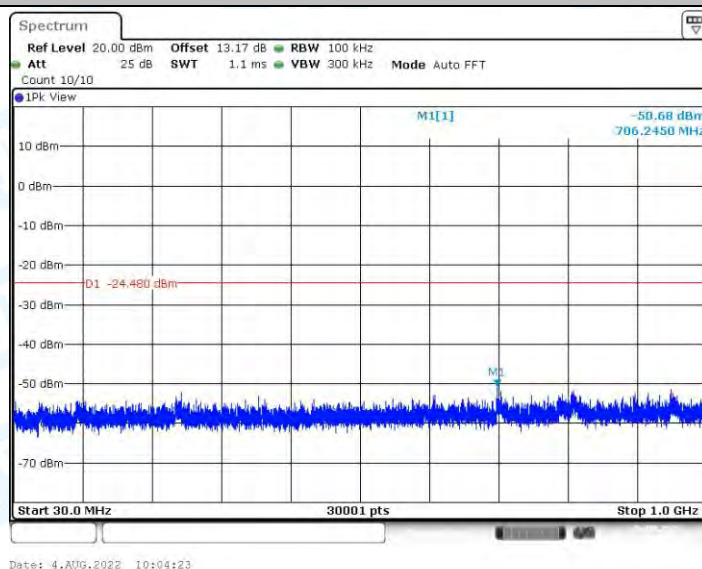
11B-CDD_Ant1_2437_30~1000



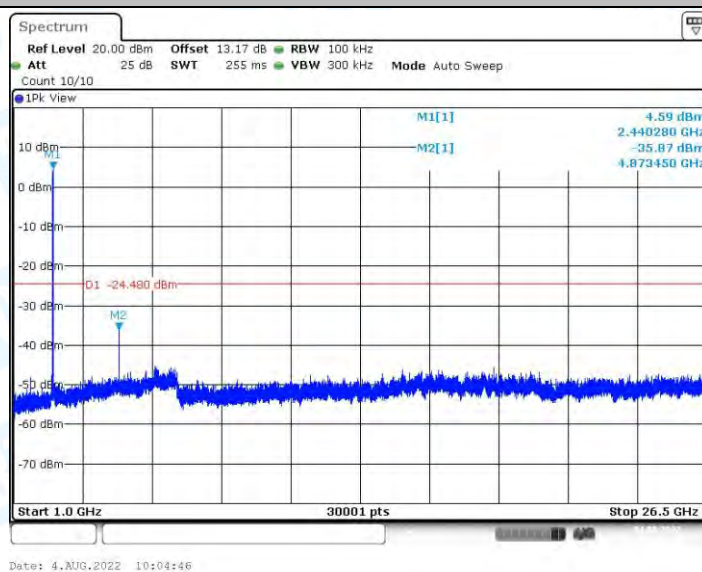
11B-CDD_Ant1_2437_1000~26500



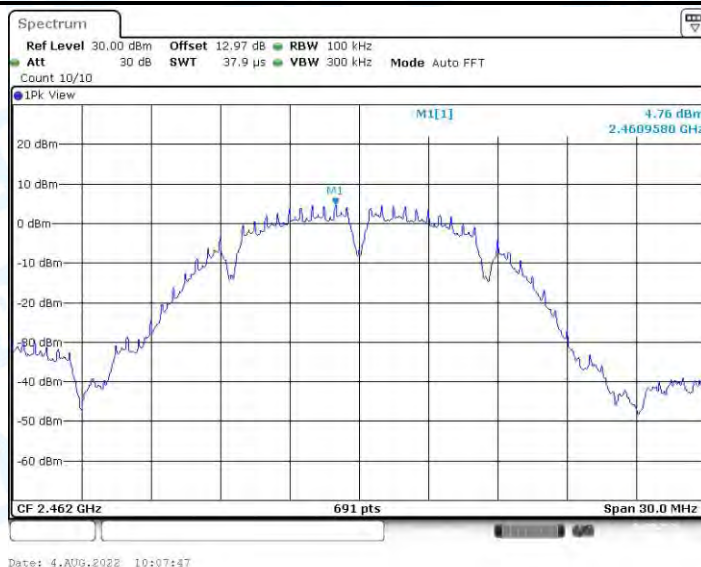
11B-CDD_Ant2_2437_0~Reference



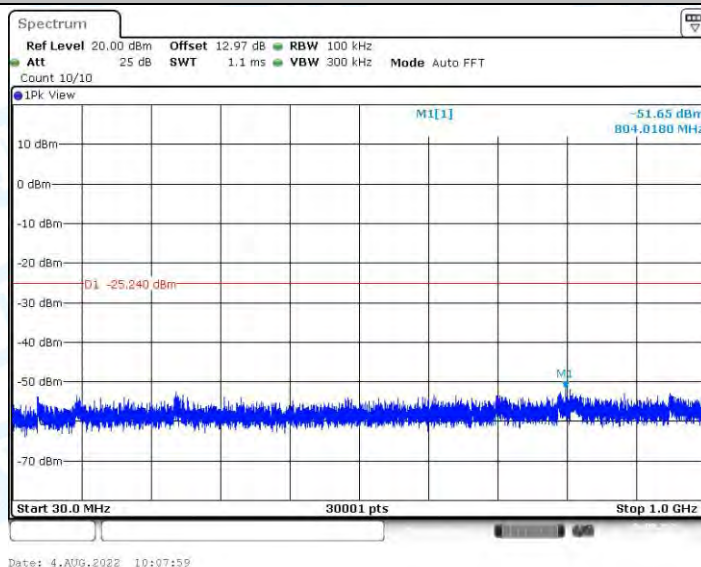
11B-CDD_Ant2_2437_30~1000



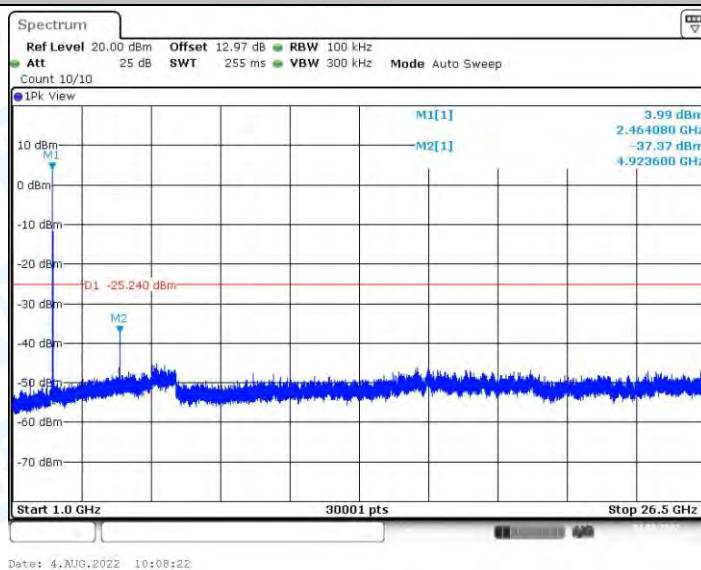
11B-CDD_Ant2_2437_1000~26500



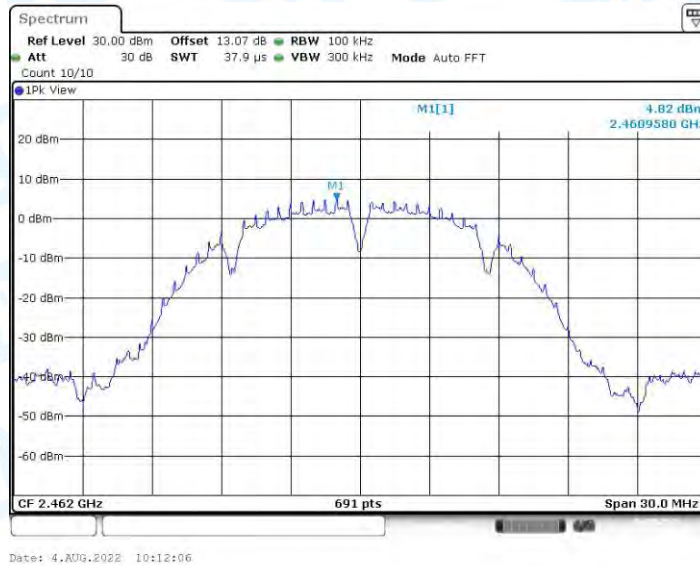
11B-CDD_Ant1_2462_0~Reference



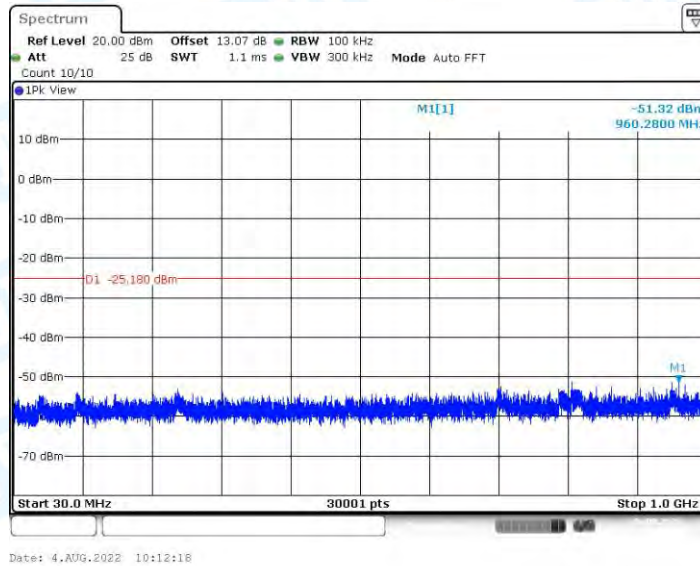
11B-CDD_Ant1_2462_30~1000



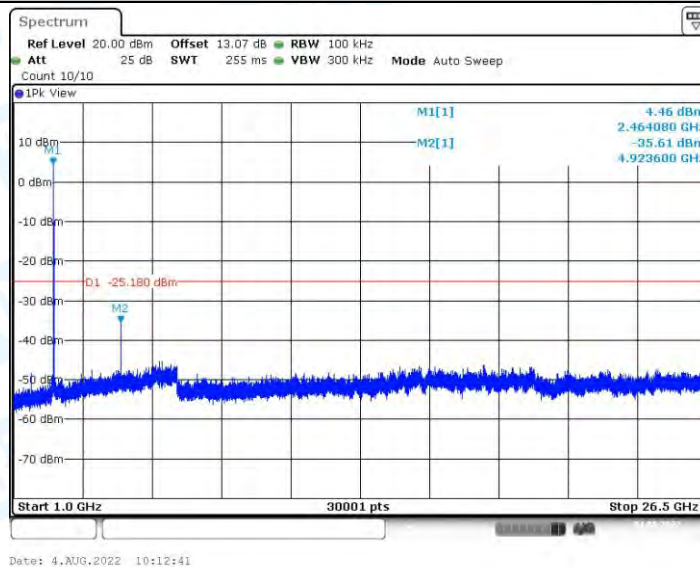
11B-CDD_Ant1_2462_1000~26500



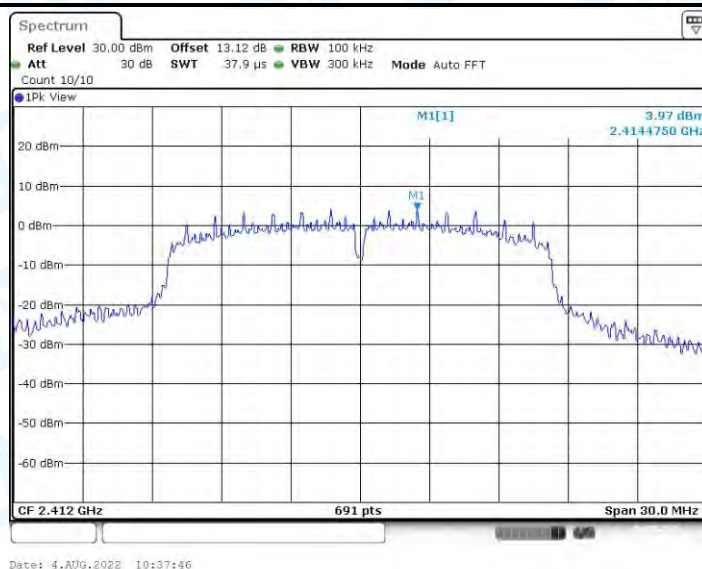
11B-CDD_Ant2_2462_0~Reference



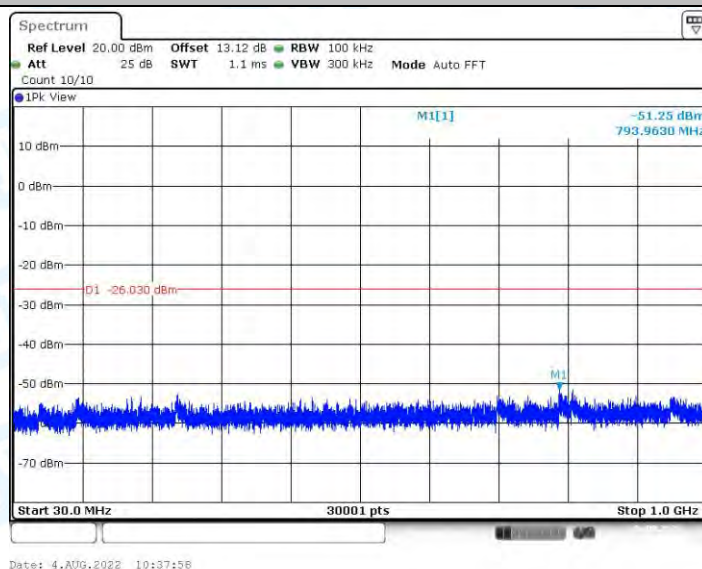
11B-CDD_Ant2_2462_30~1000



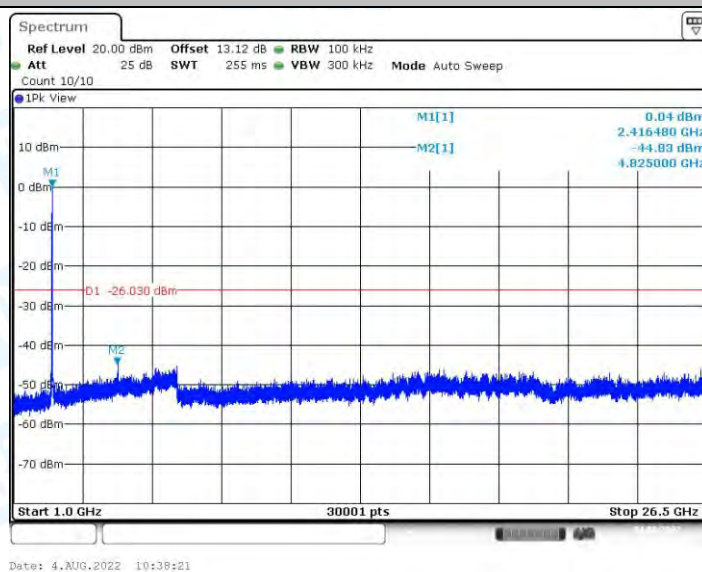
11B-CDD_Ant2_2462_1000~26500



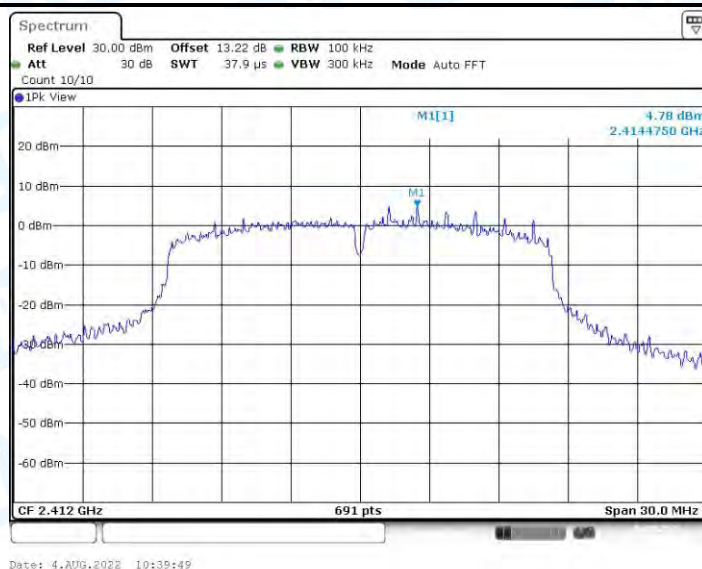
11G-CDD_Ant1_2412_0~Reference



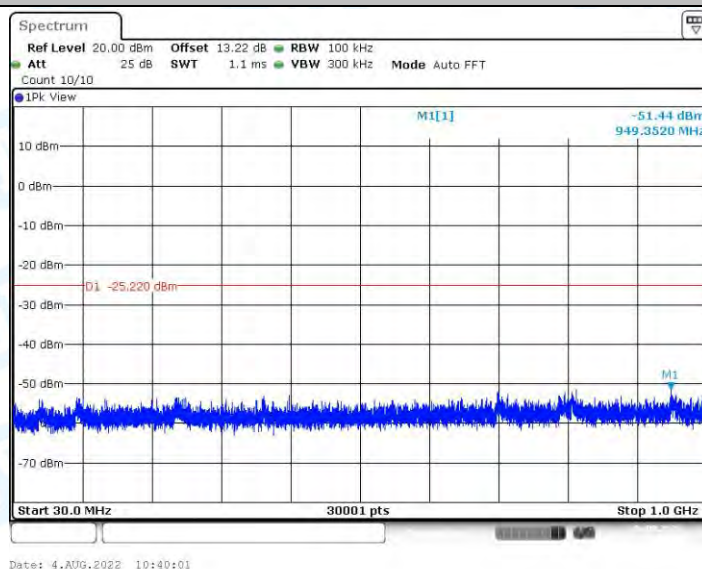
11G-CDD_Ant1_2412_30~1000



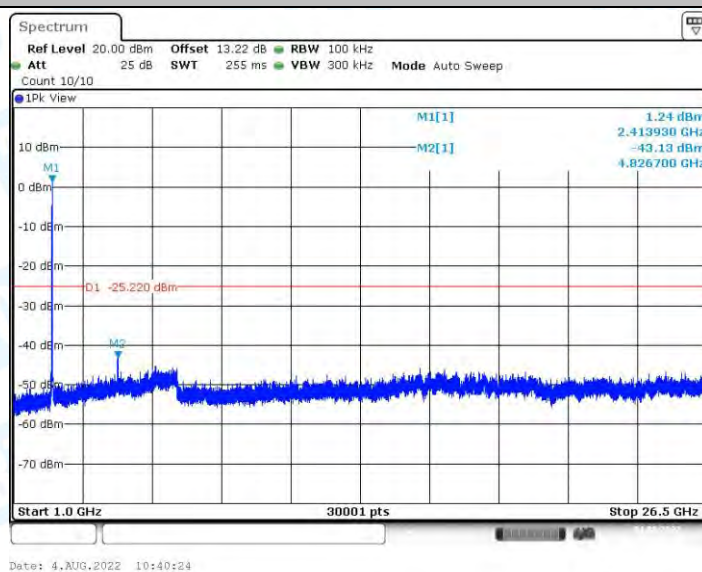
11G-CDD_Ant1_2412_1000~26500



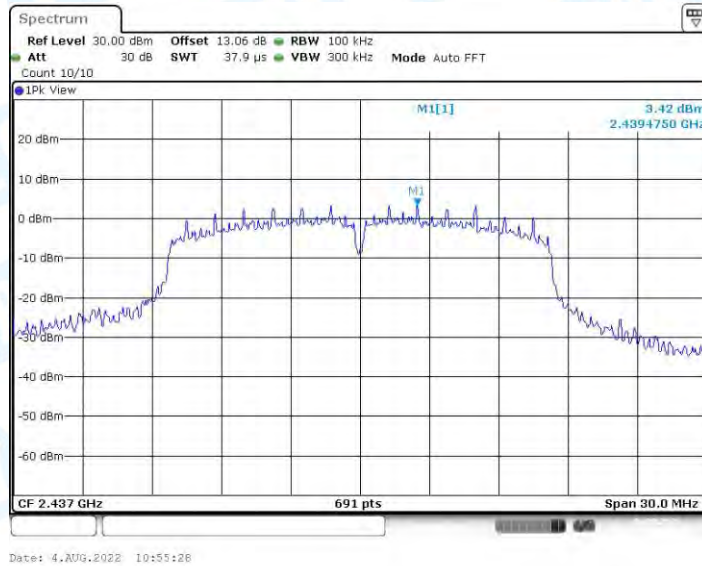
11G-CDD_Ant2_2412_0~Reference



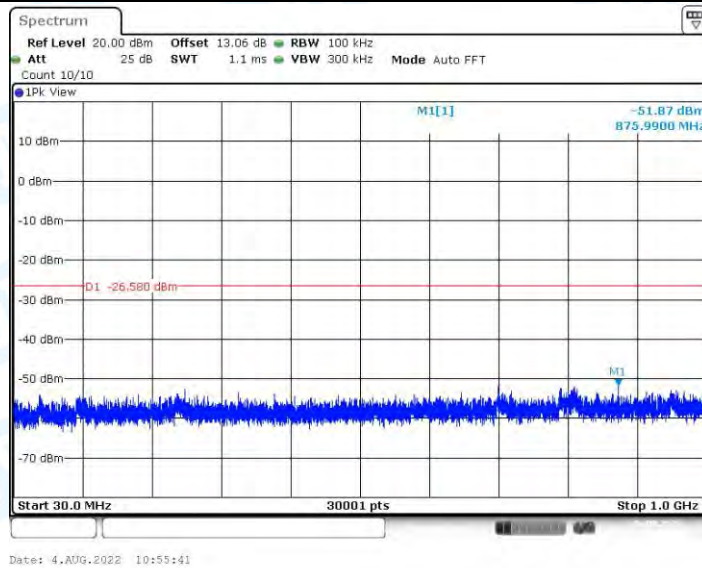
11G-CDD_Ant2_2412_30~1000



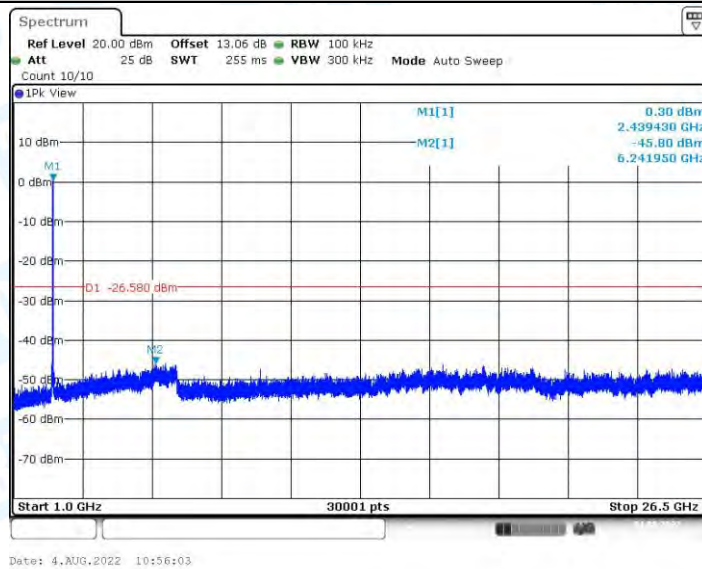
11G-CDD_Ant2_2412_1000~26500



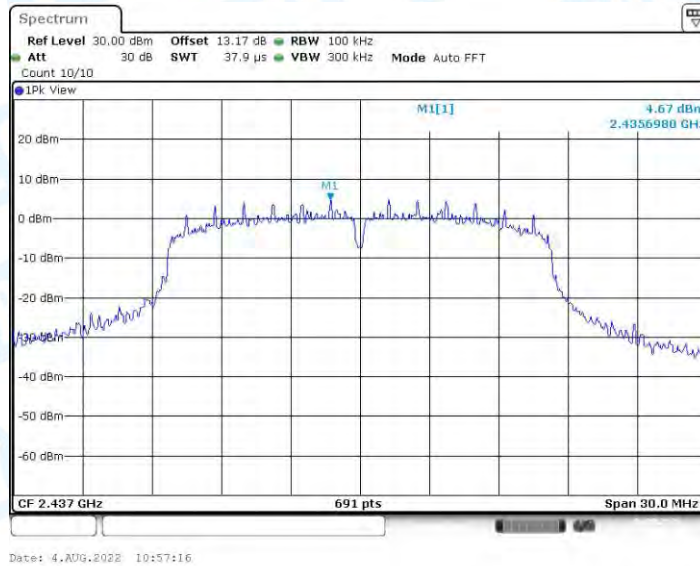
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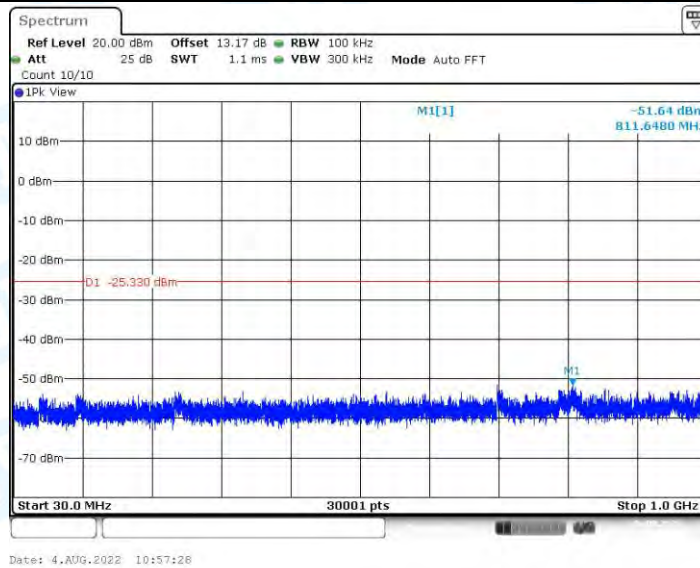
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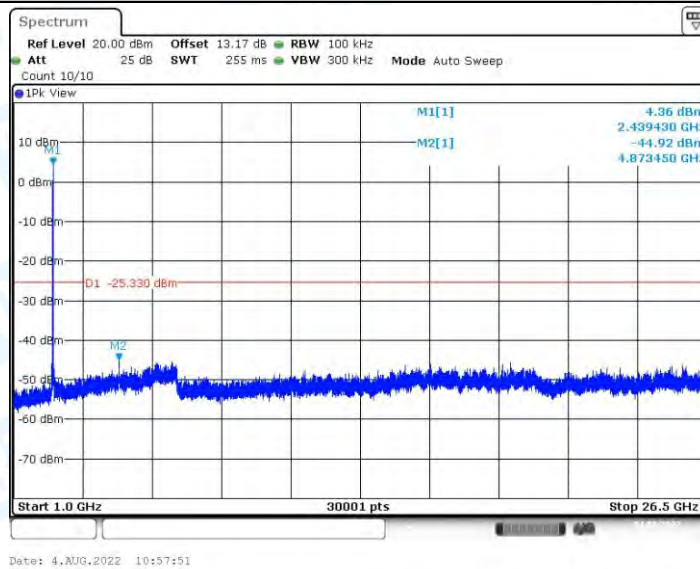
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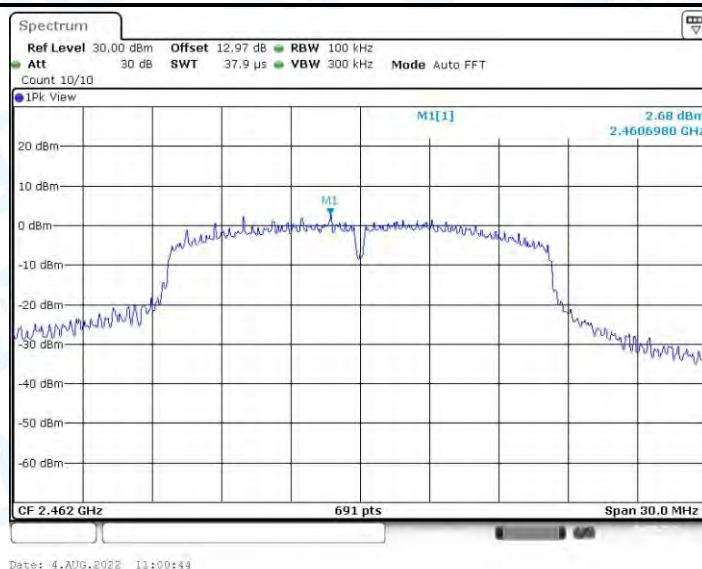
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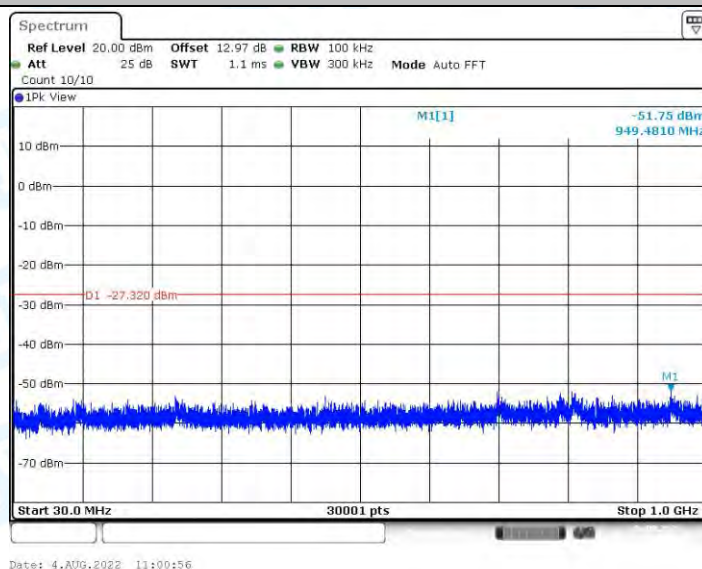
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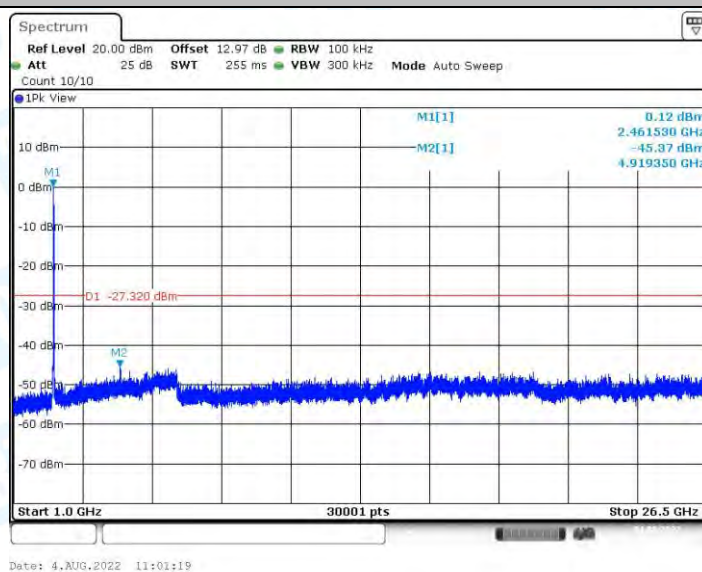
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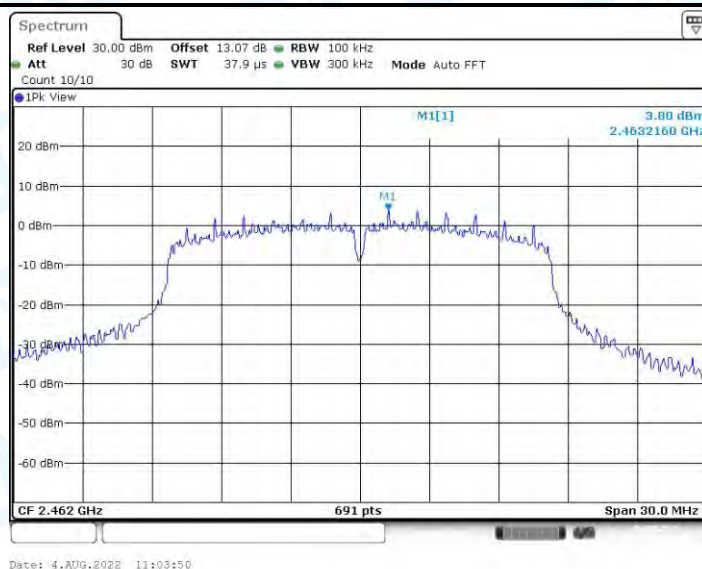
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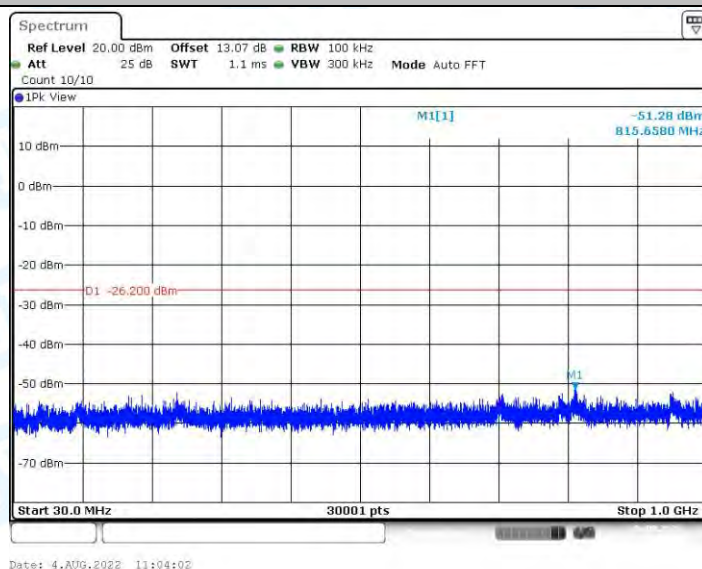
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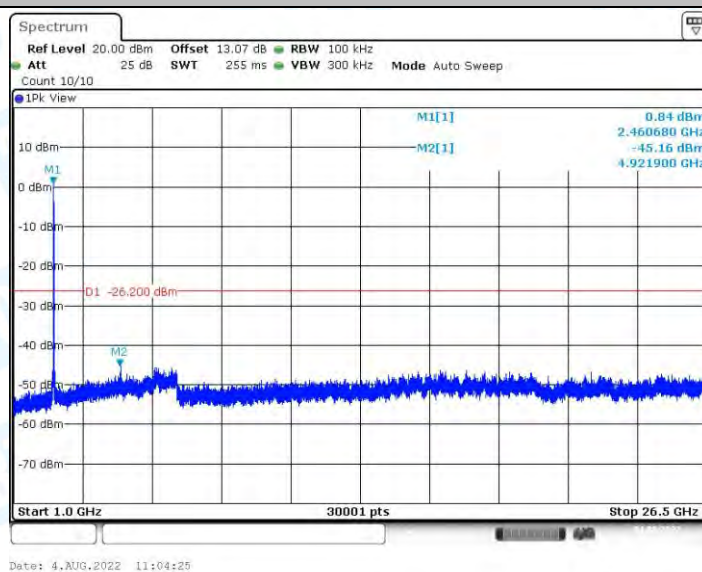
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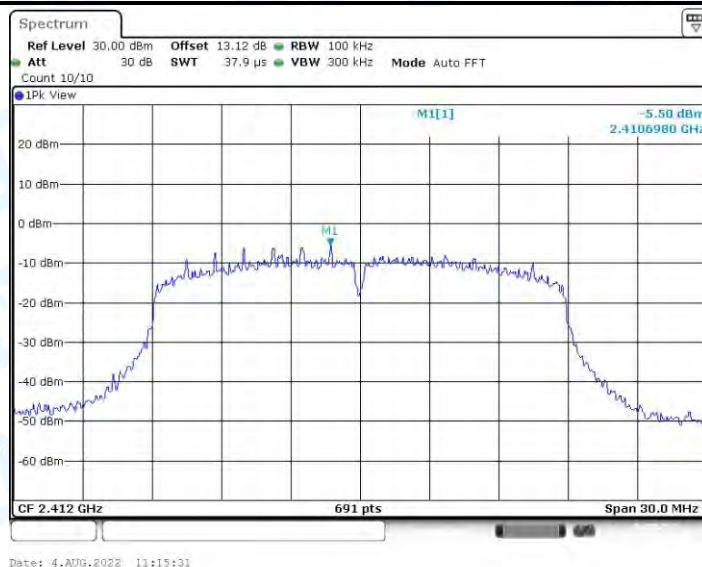
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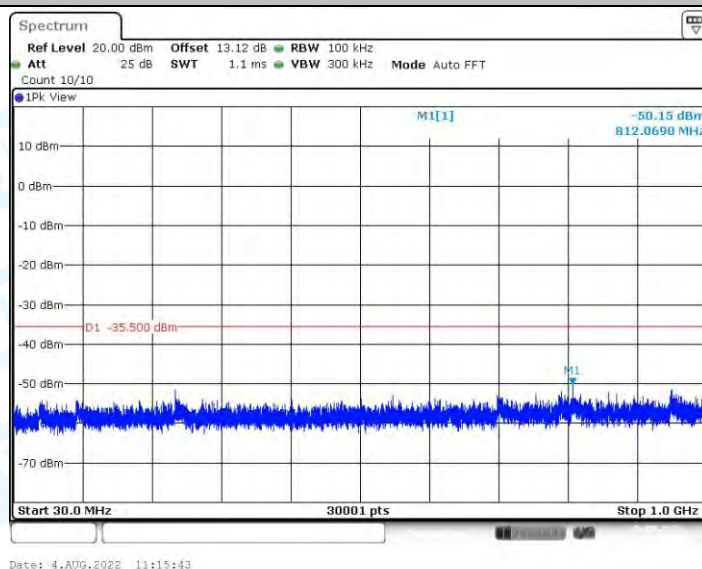
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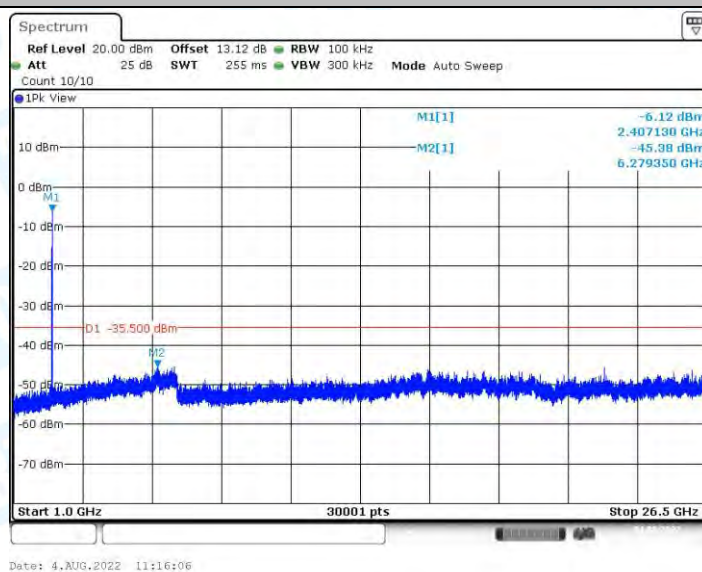
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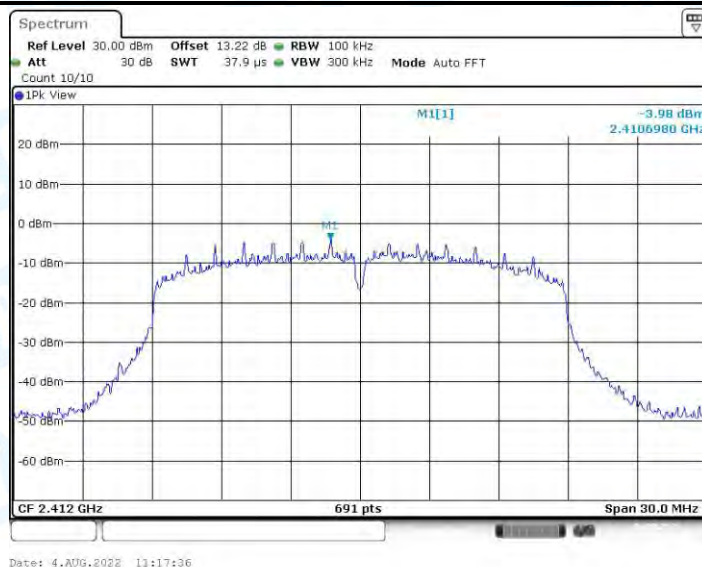
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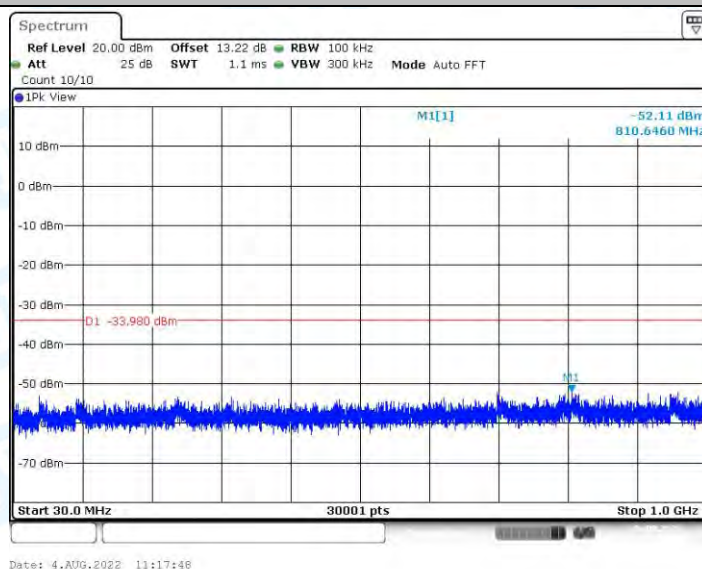
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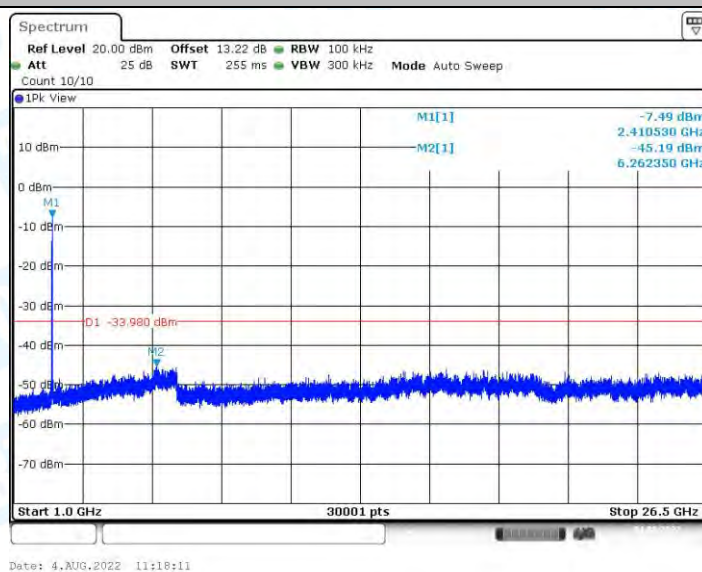
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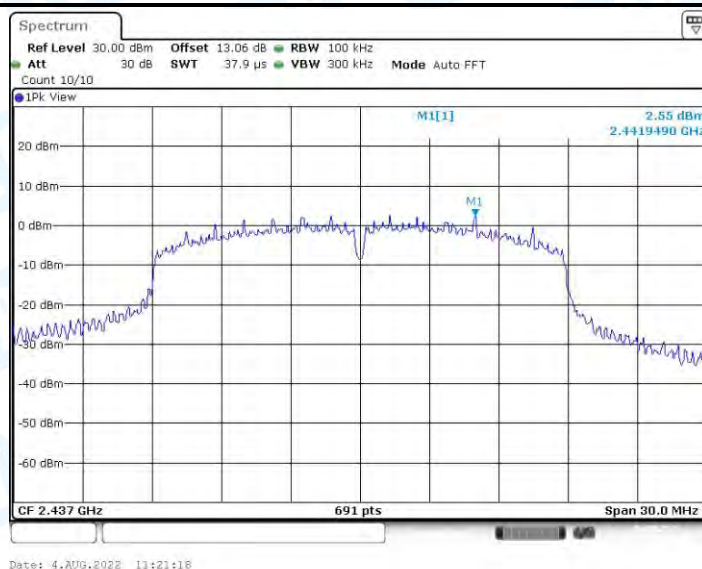
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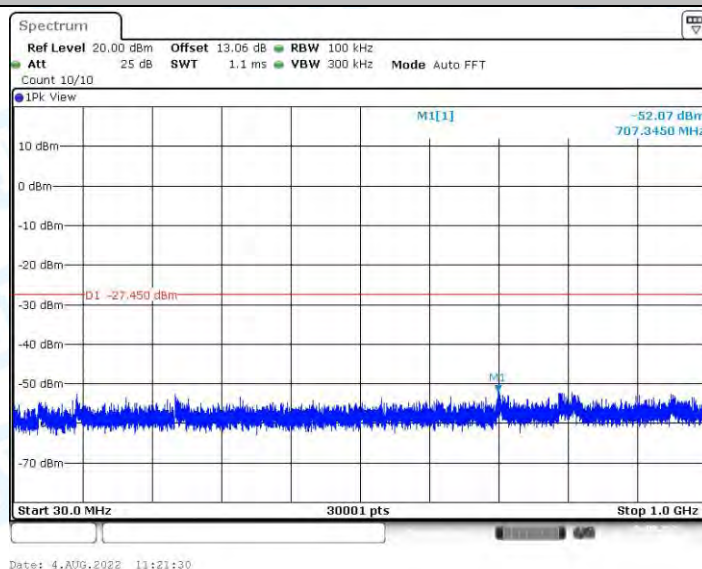
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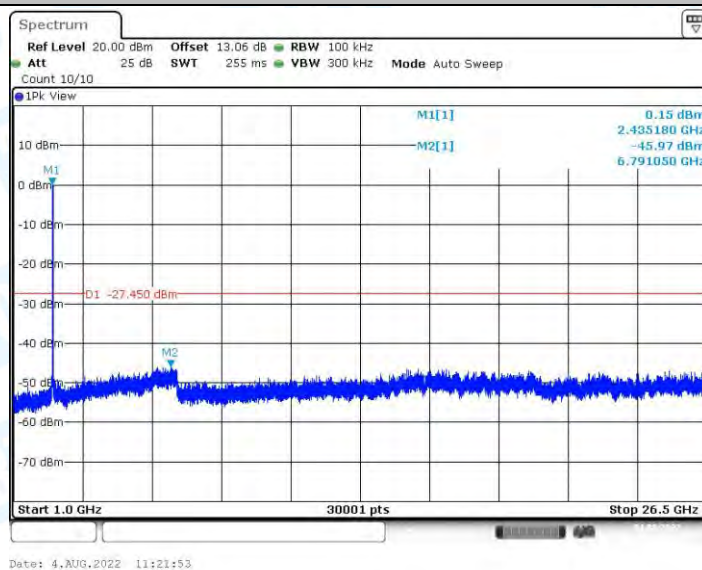
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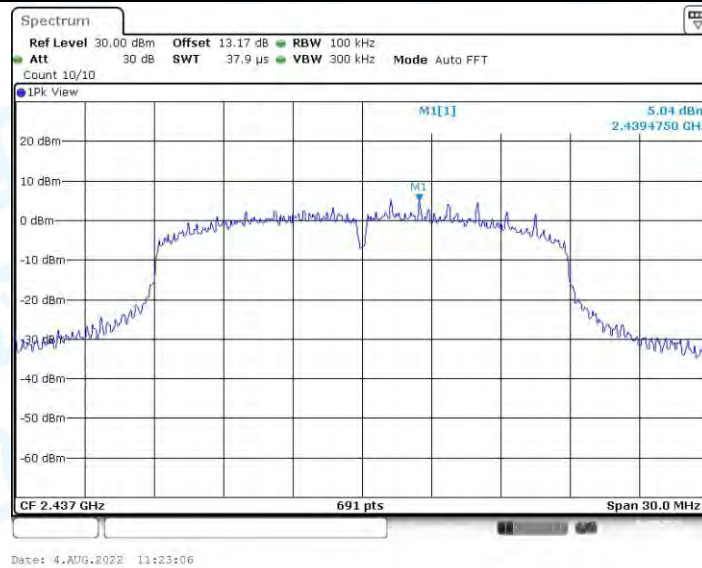
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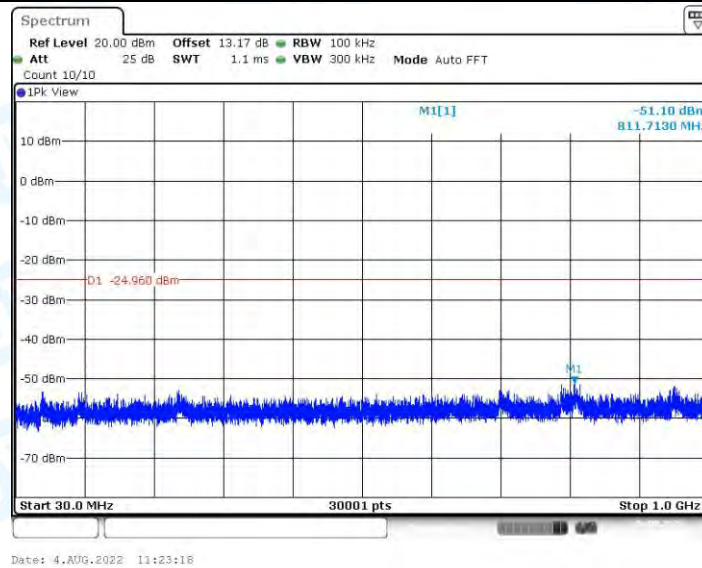
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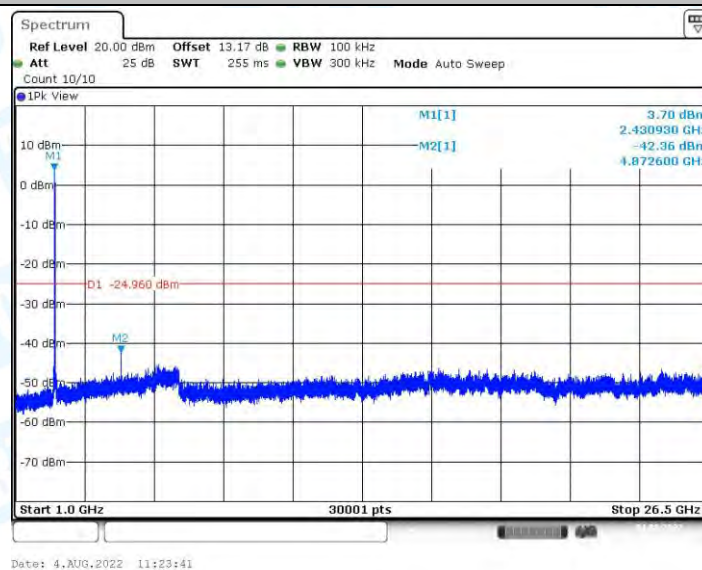
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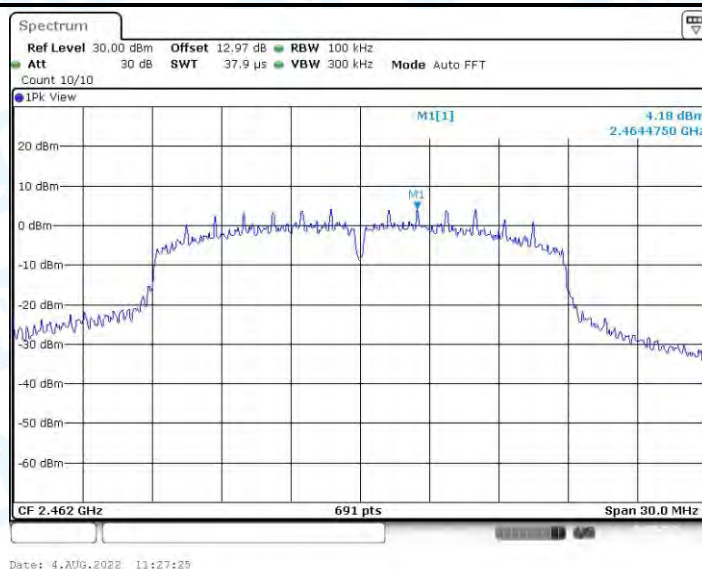
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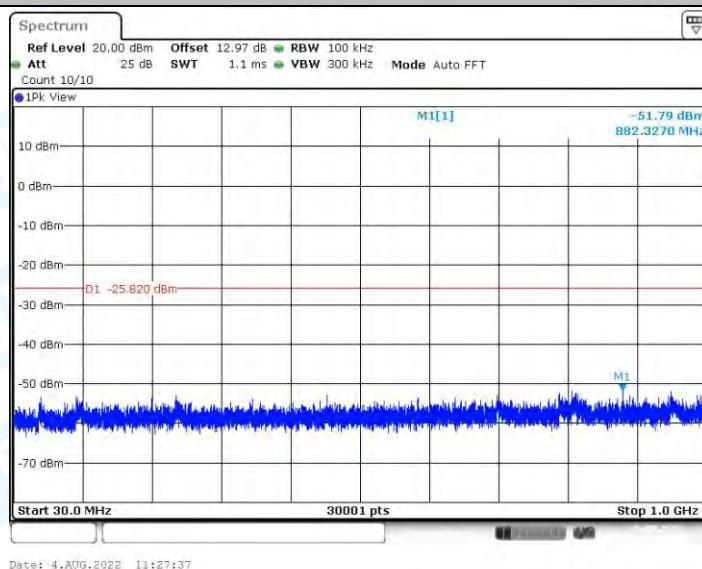
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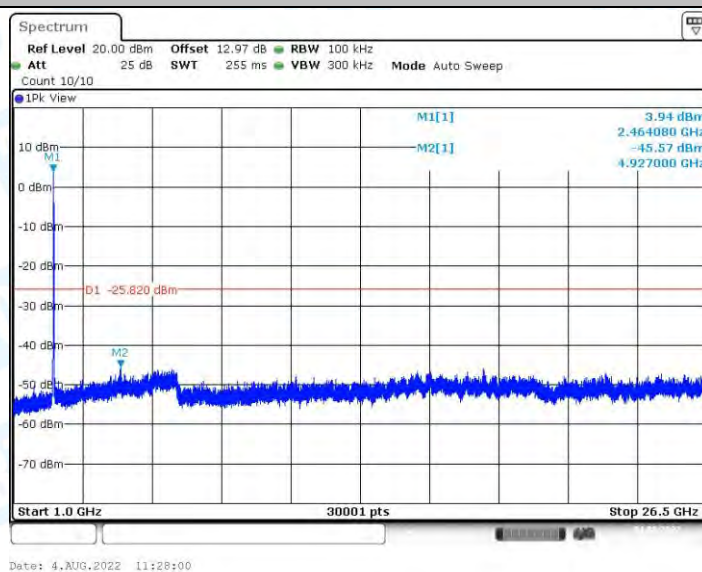
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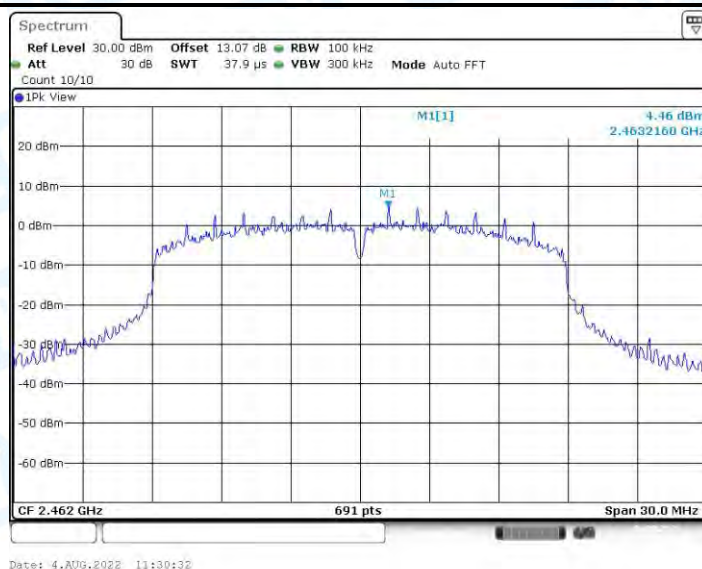
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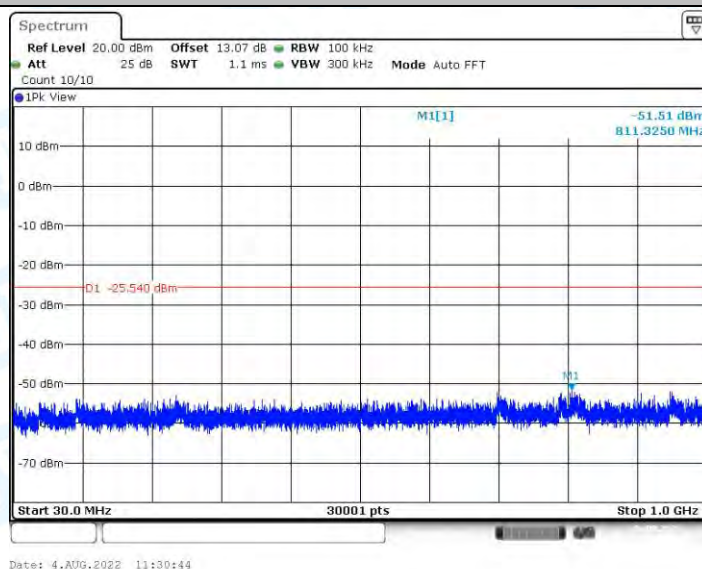
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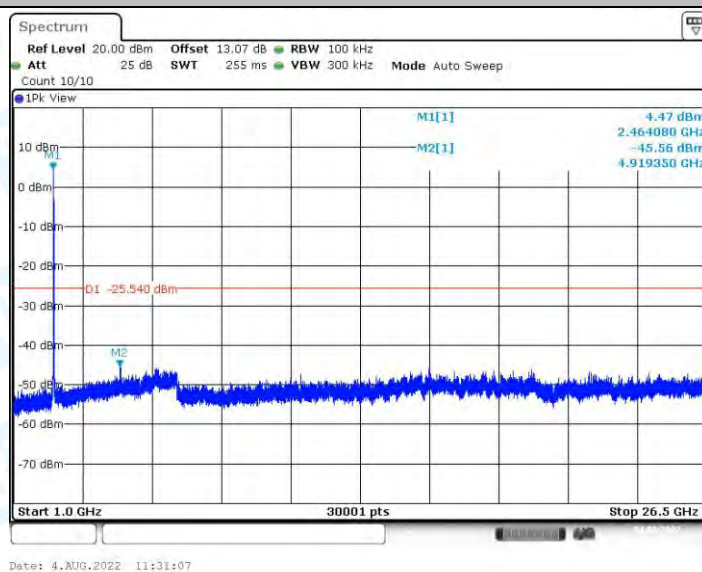
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11N20MIMO_Ant2_2462_0~Reference



11N20MIMO_Ant2_2462_30~1000



11N20MIMO_Ant2_2462_1000~26500