

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

General Description of EUT	
Product Name:	OUTDOOR TV
Test Model:	OT65A1KAGC
Sample ID:	C-202201-0046-1# & C-202201-0046-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	AC 120V/60Hz
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202201-0046-23	

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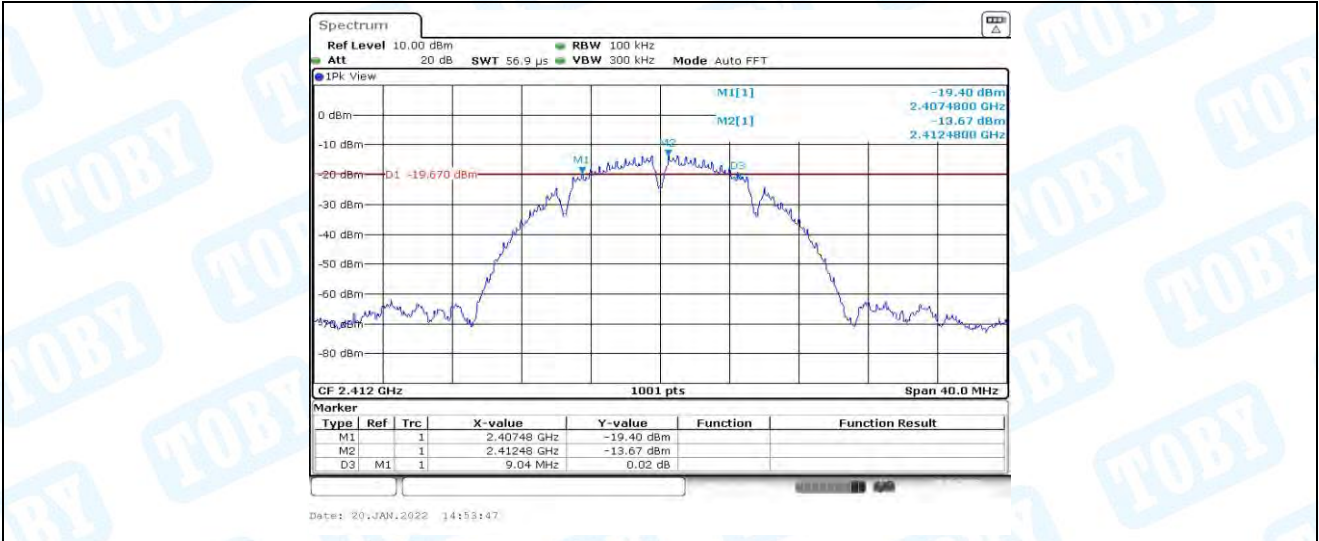
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1. DTS Bandwidth

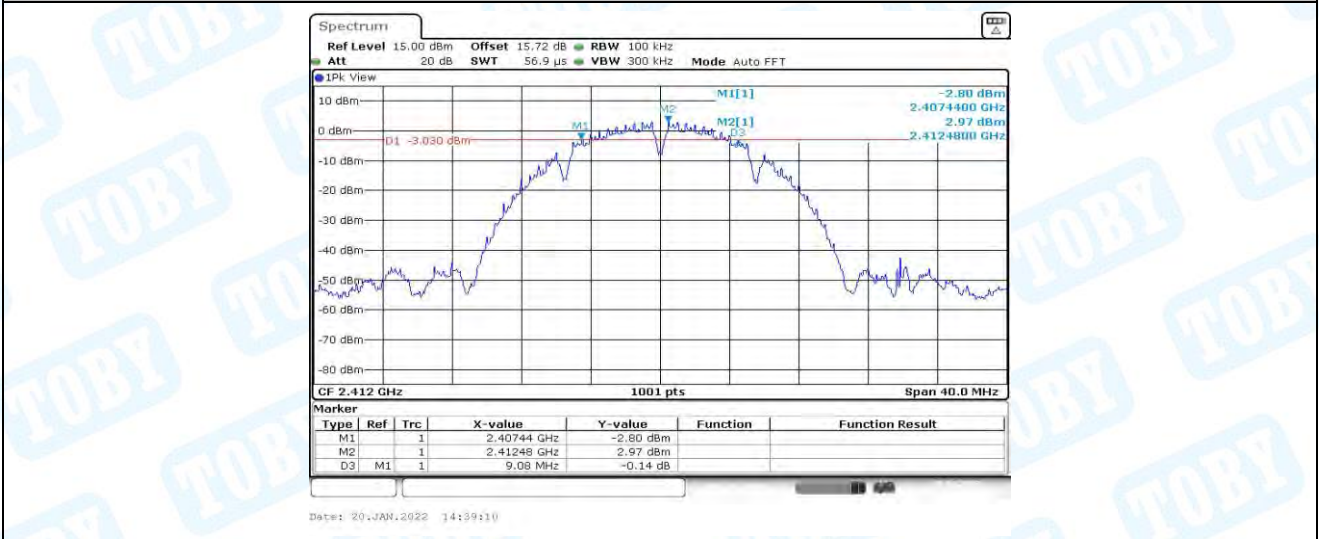
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	9.04	2407.48	2416.52	0.5	PASS
	Ant2	2412	9.08	2407.44	2416.52	0.5	PASS
	Ant1	2437	9.08	2432.44	2441.52	0.5	PASS
	Ant2	2437	9.04	2432.44	2441.48	0.5	PASS
	Ant1	2462	9.08	2457.44	2466.52	0.5	PASS
	Ant2	2462	9.08	2457.44	2466.52	0.5	PASS
11G-CDD	Ant1	2412	15.08	2404.44	2419.52	0.5	PASS
	Ant2	2412	15.12	2404.44	2419.56	0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant2	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant1	2462	15.12	2454.44	2469.56	0.5	PASS
	Ant2	2462	15.12	2454.44	2469.56	0.5	PASS
11N20MIMO	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant2	2412	15.12	2404.44	2419.56	0.5	PASS
	Ant1	2437	16.28	2428.84	2445.12	0.5	PASS
	Ant2	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant1	2462	16.28	2453.84	2470.12	0.5	PASS
	Ant2	2462	15.12	2454.44	2469.56	0.5	PASS
11N40MIMO	Ant1	2422	35.12	2404.40	2439.52	0.5	PASS
	Ant2	2422	35.20	2404.40	2439.60	0.5	PASS
	Ant1	2437	35.12	2419.40	2454.52	0.5	PASS
	Ant2	2437	35.20	2419.40	2454.60	0.5	PASS
	Ant1	2452	35.12	2434.40	2469.52	0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	0.5	PASS

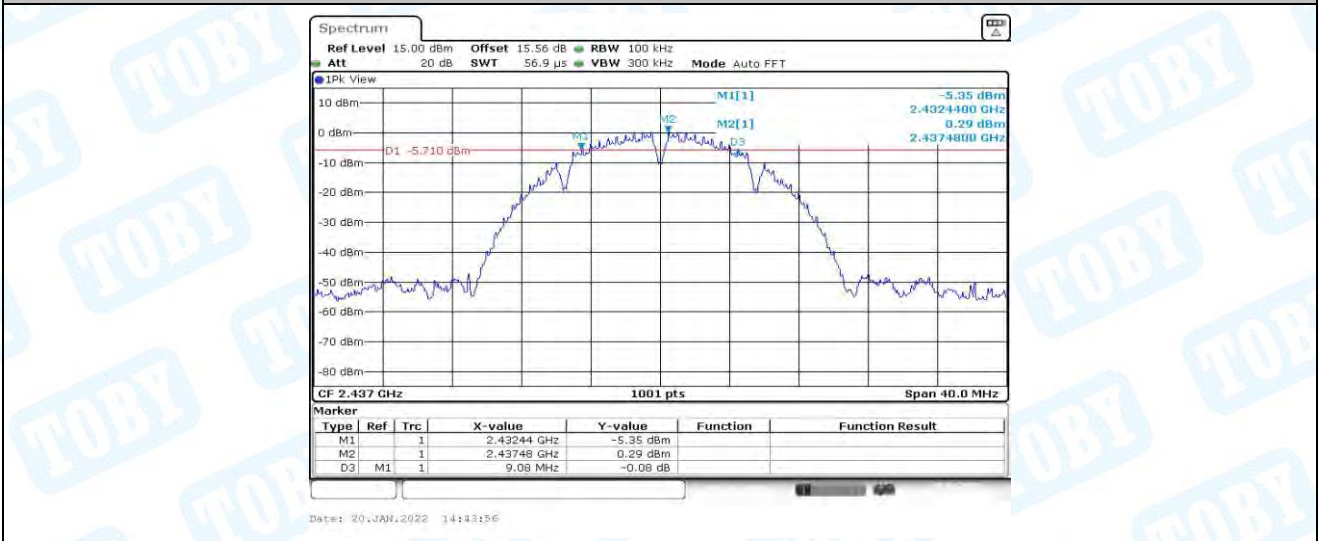
1.2. Test Graphs



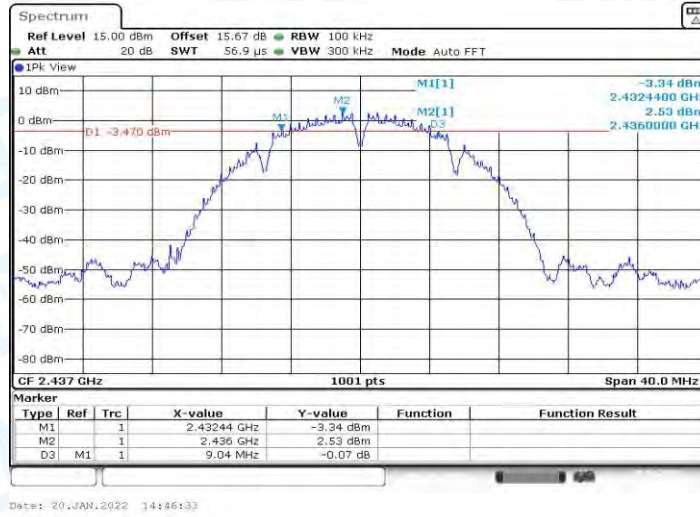
11B-CDD_Ant1_2412



11B-CDD_Ant2_2412



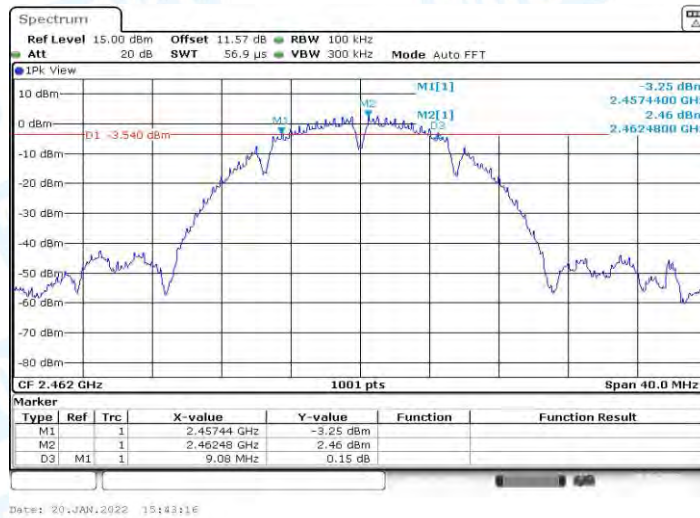
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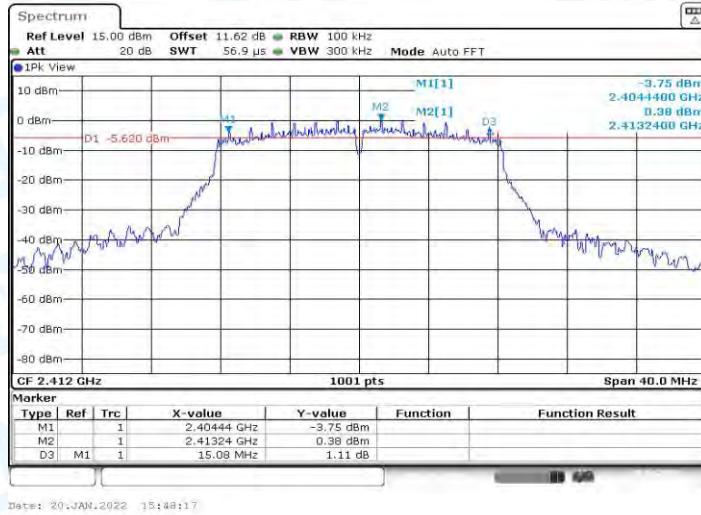
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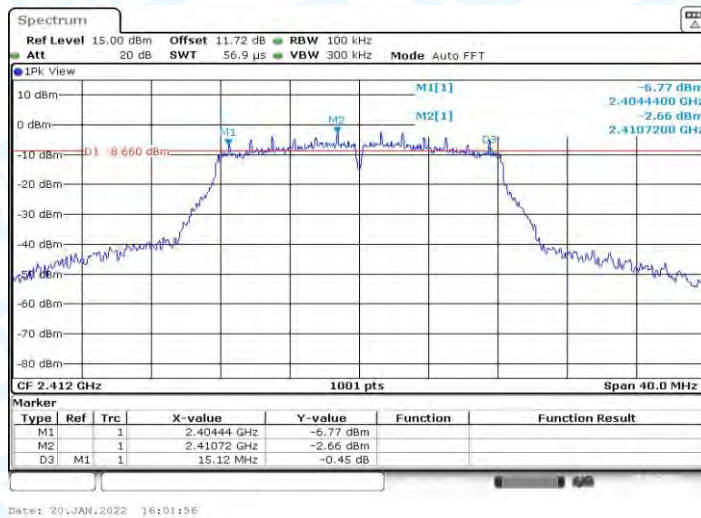
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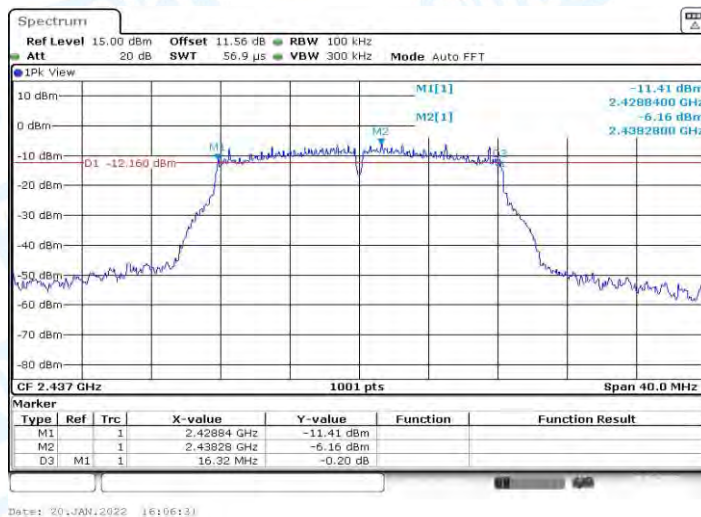
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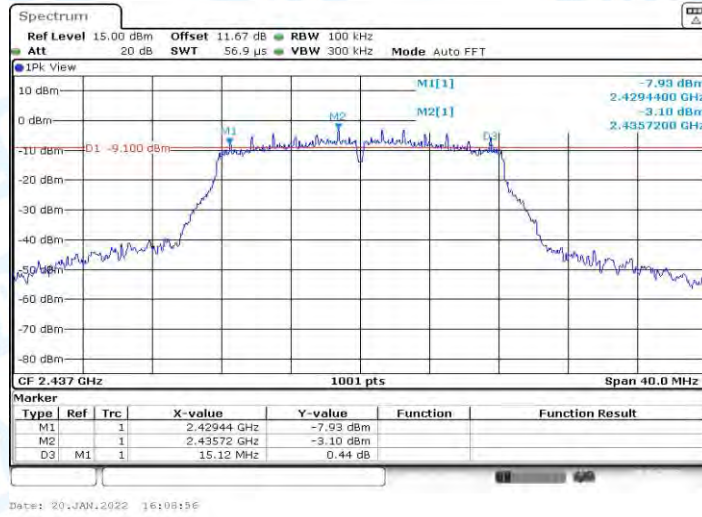
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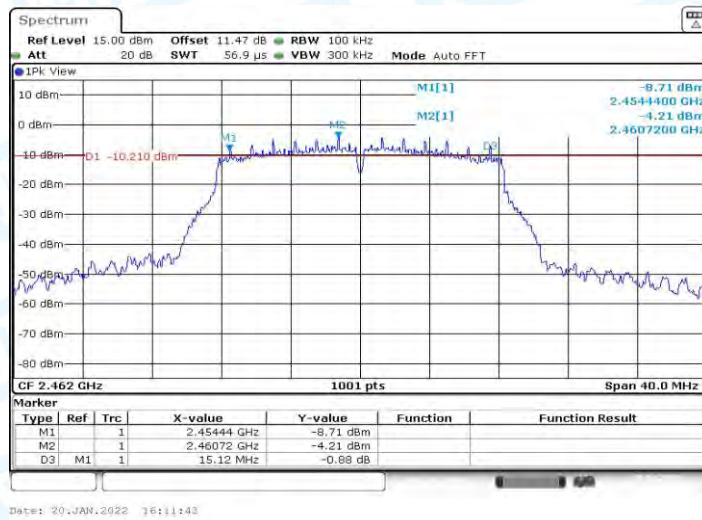
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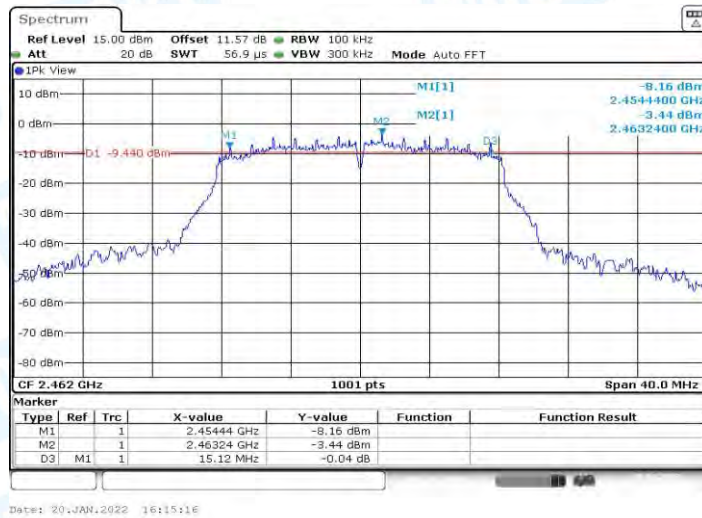
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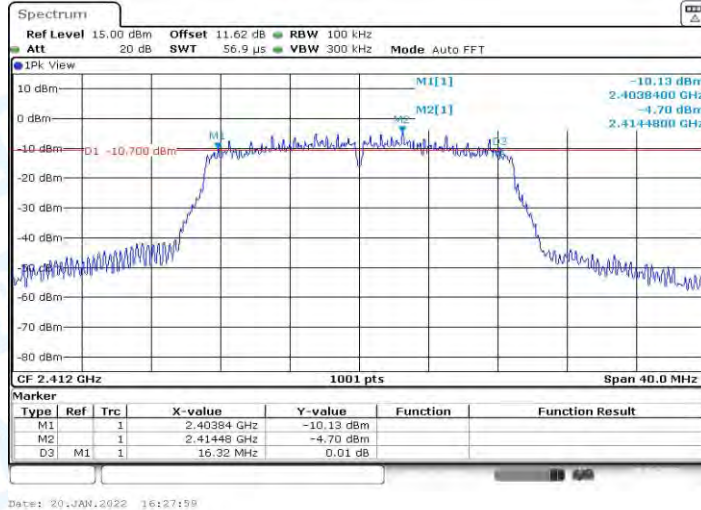
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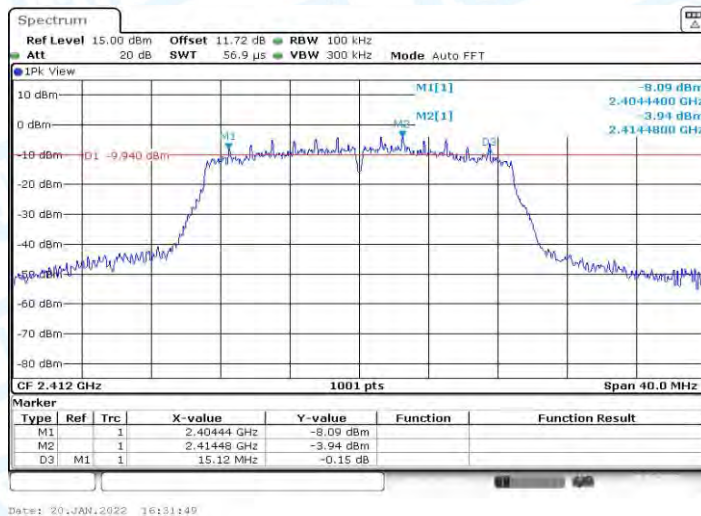
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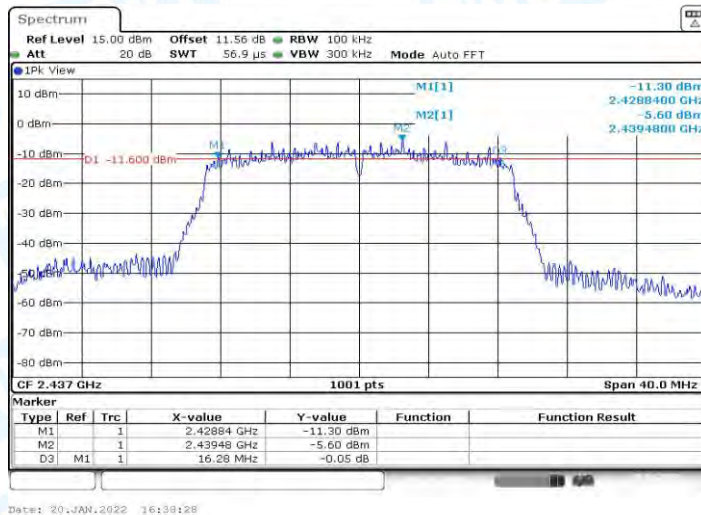
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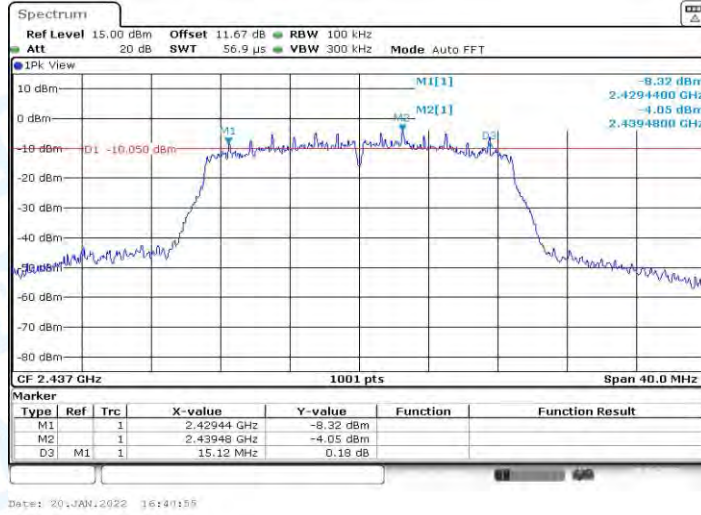
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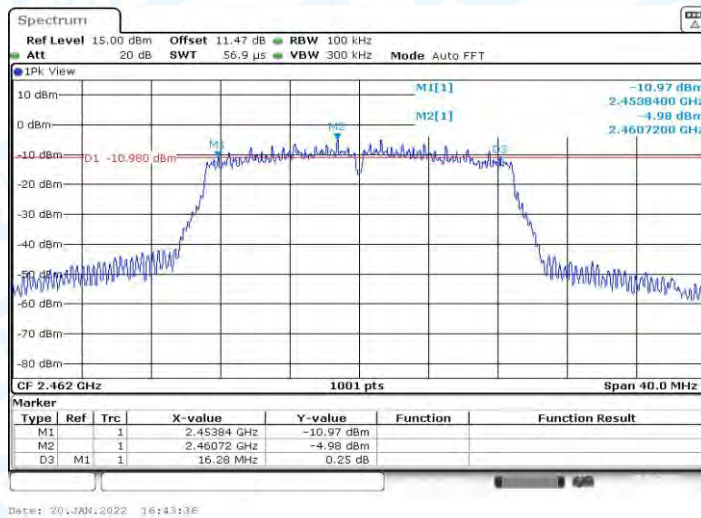
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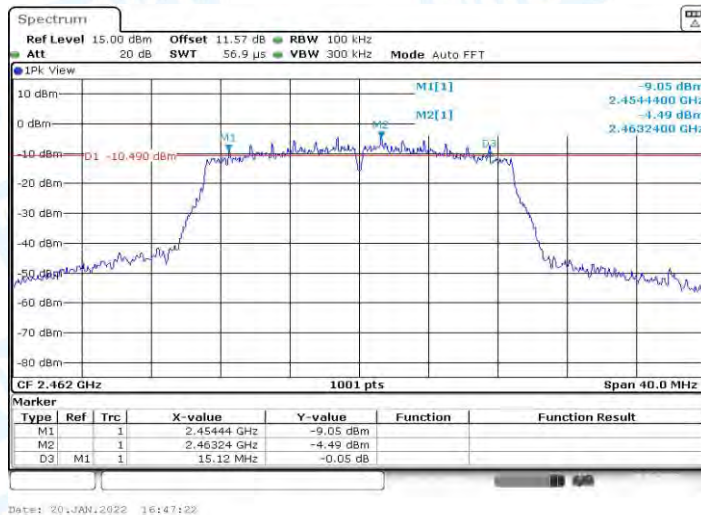
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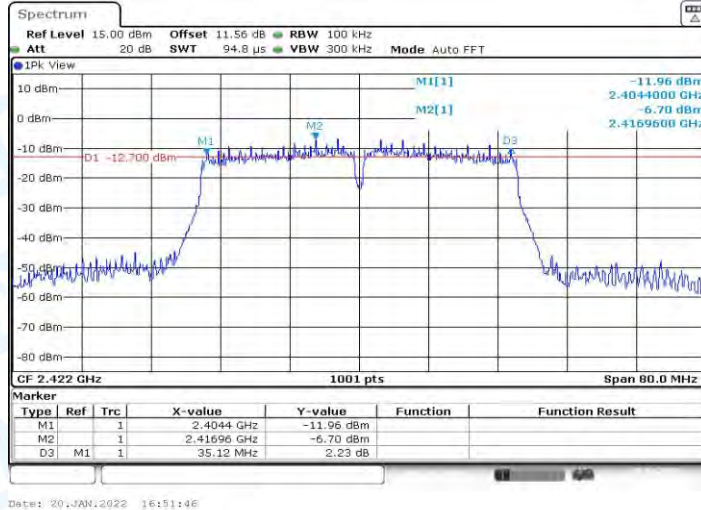
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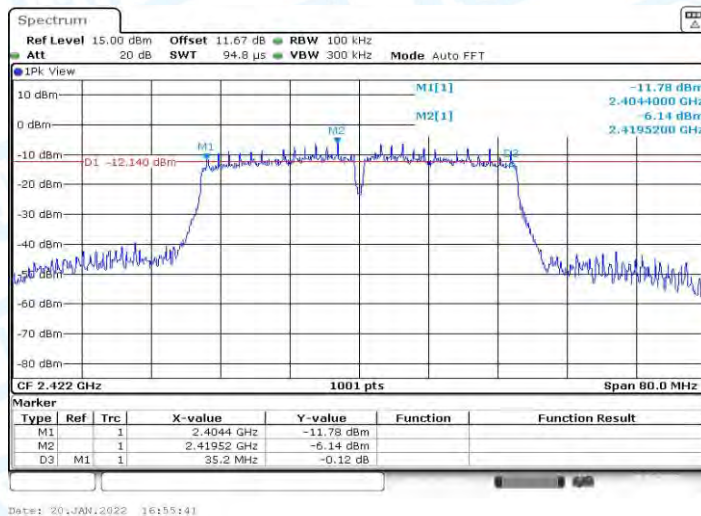
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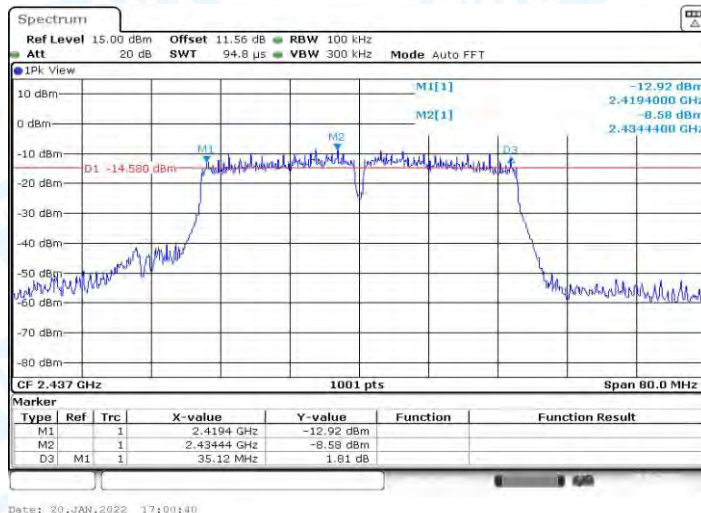
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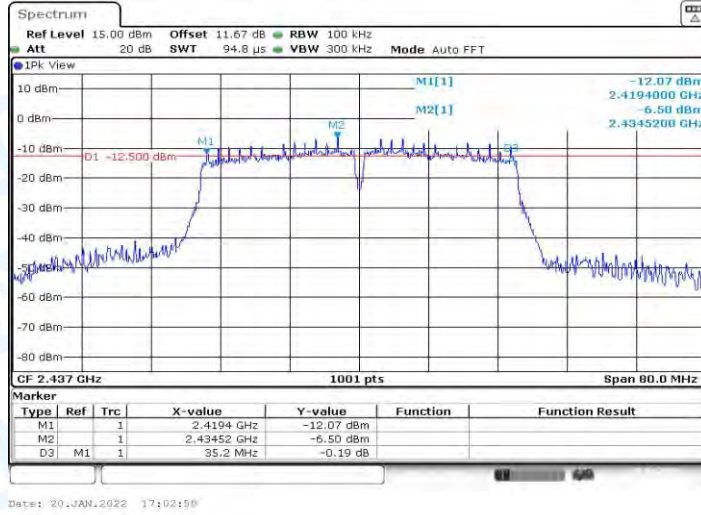
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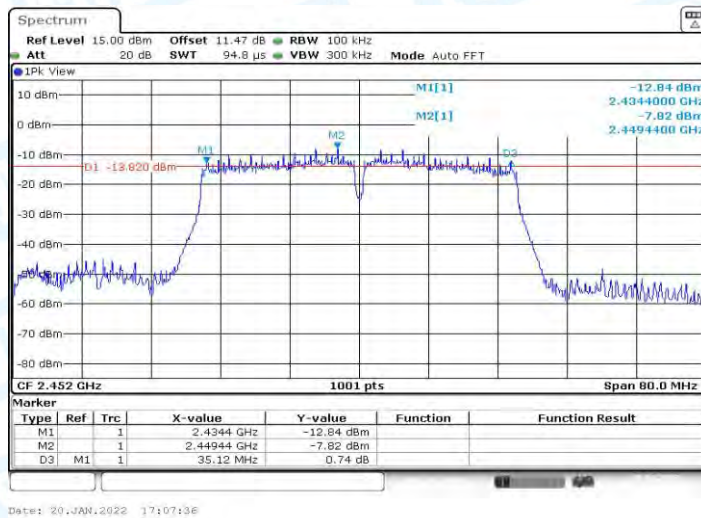
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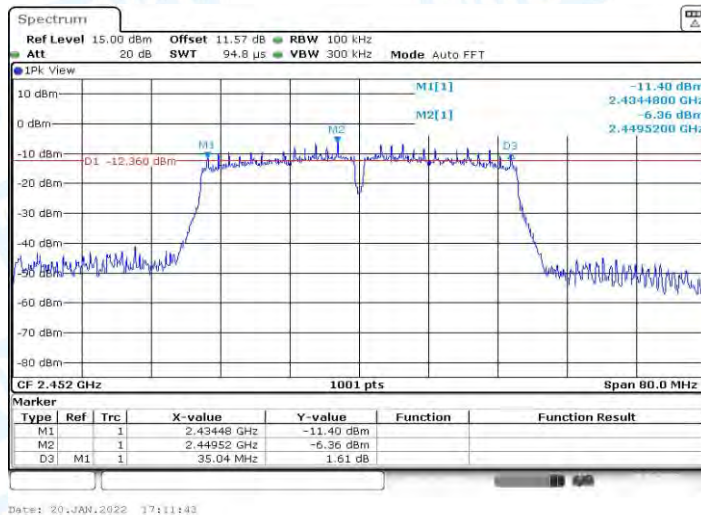
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11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



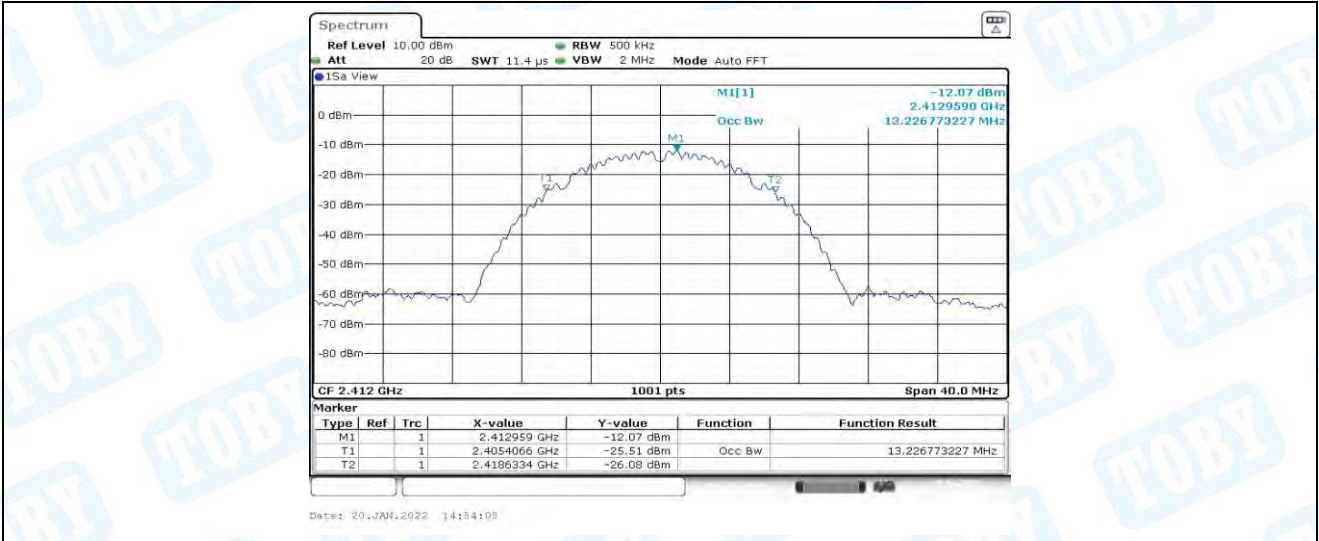
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2. Occupied Channel Bandwidth

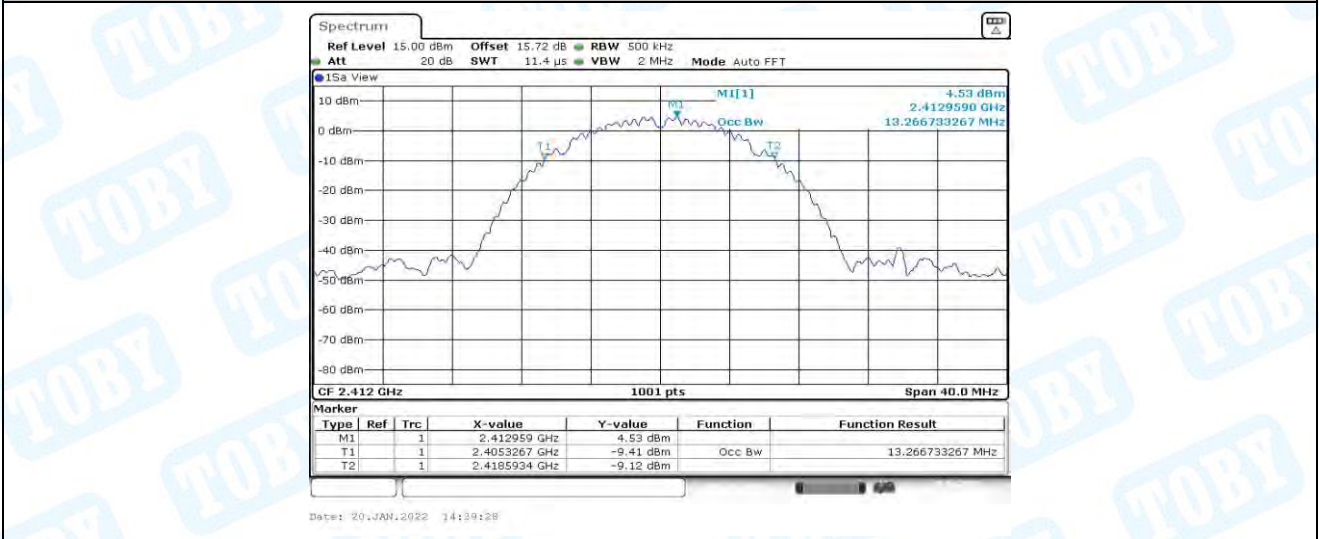
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.227	2405.407	2418.633	---	---
	Ant2	2412	13.267	2405.327	2418.593	---	---
	Ant1	2437	13.347	2430.327	2443.673	---	---
	Ant2	2437	13.307	2430.327	2443.633	---	---
	Ant1	2462	13.467	2455.247	2468.713	---	---
	Ant2	2462	13.506	2455.247	2468.753	---	---
11G-CDD	Ant1	2412	16.703	2403.568	2420.272	---	---
	Ant2	2412	16.743	2403.648	2420.392	---	---
	Ant1	2437	16.583	2428.728	2445.312	---	---
	Ant2	2437	17.063	2428.449	2445.511	---	---
	Ant1	2462	16.583	2453.648	2470.232	---	---
	Ant2	2462	16.823	2453.528	2470.352	---	---
11N20MIMO	Ant1	2412	17.502	2403.209	2420.711	---	---
	Ant2	2412	17.982	2403.009	2420.991	---	---
	Ant1	2437	17.502	2428.249	2445.751	---	---
	Ant2	2437	17.782	2428.129	2445.911	---	---
	Ant1	2462	17.622	2453.169	2470.791	---	---
	Ant2	2462	17.822	2453.089	2470.911	---	---
11N40MIMO	Ant1	2422	36.204	2403.858	2440.062	---	---
	Ant2	2422	36.204	2403.858	2440.062	---	---
	Ant1	2437	36.444	2418.778	2455.222	---	---
	Ant2	2437	36.284	2418.858	2455.142	---	---
	Ant1	2452	36.444	2433.778	2470.222	---	---
	Ant2	2452	36.284	2433.858	2470.142	---	---

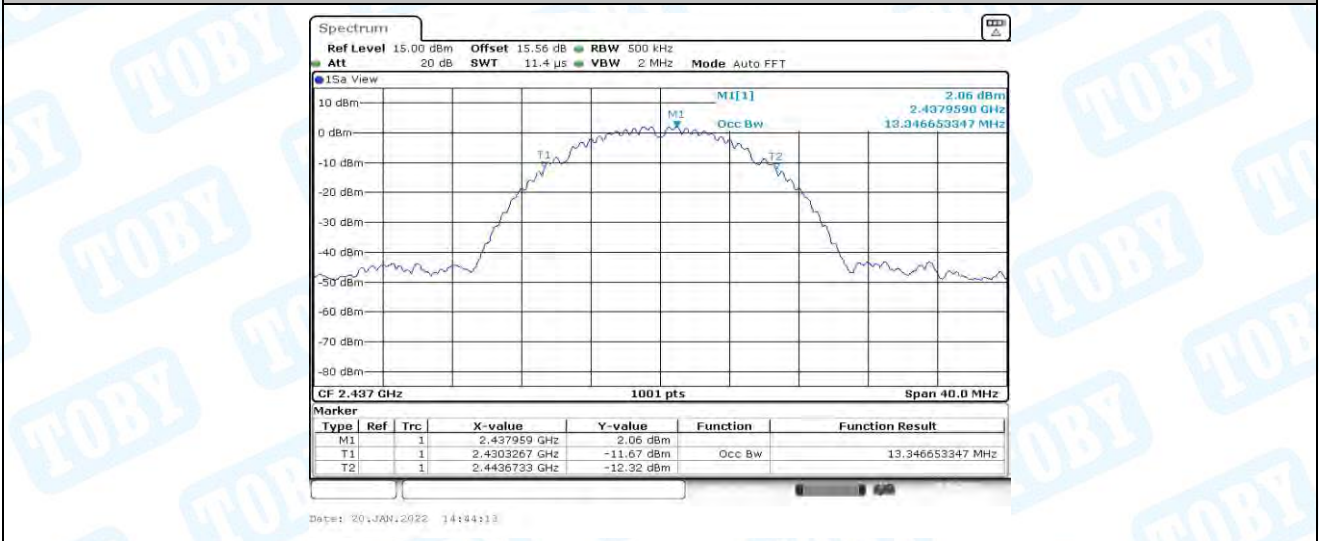
2.2. Test Graphs



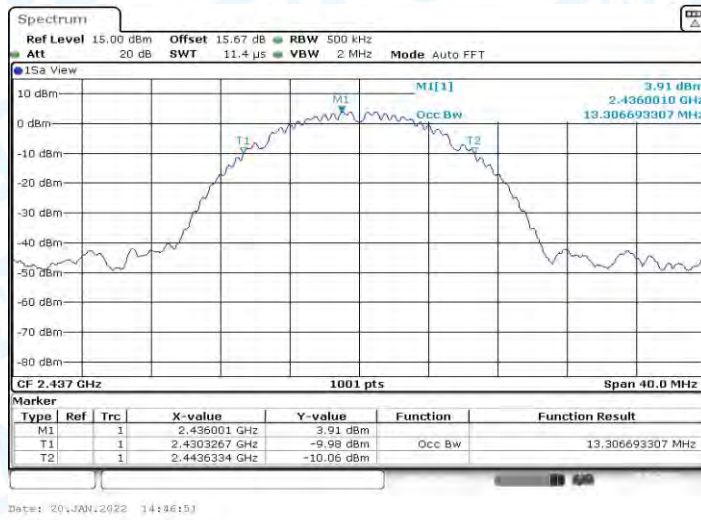
11B-CDD_Ant1_2412



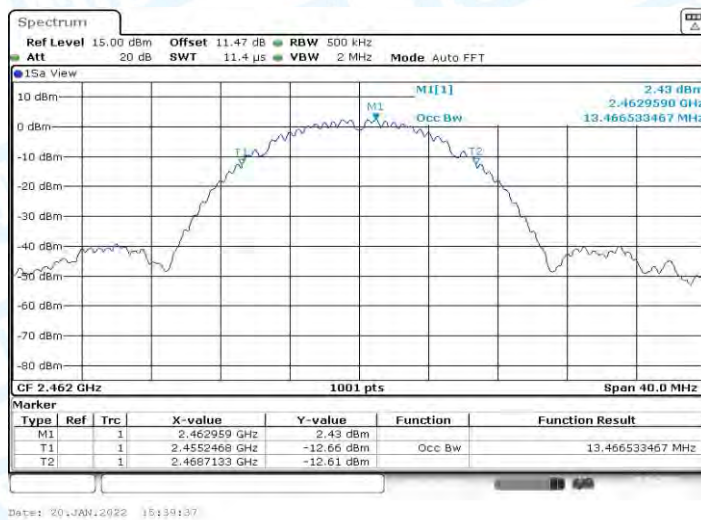
11B-CDD_Ant2_2412



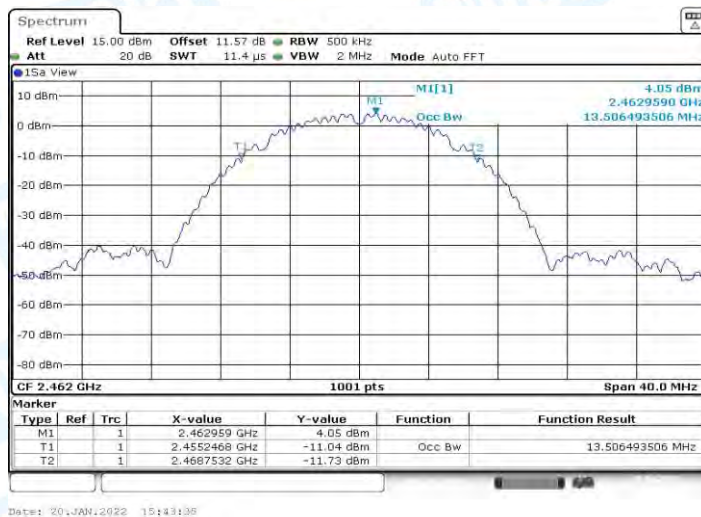
11B-CDD_Ant1_2437



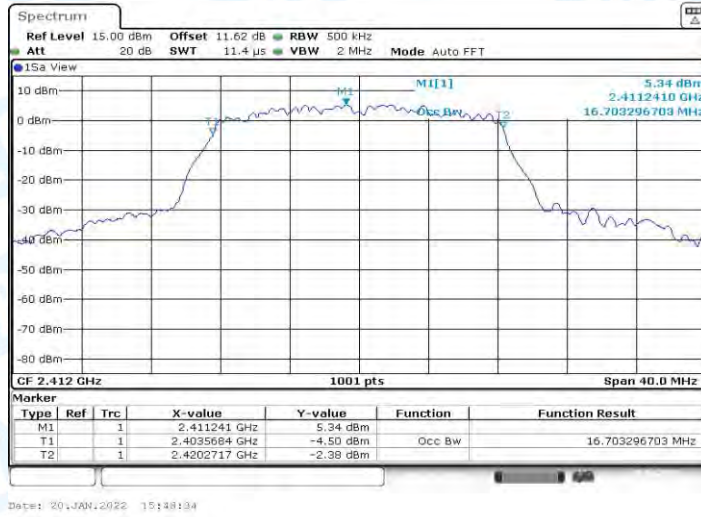
11B-CDD_Ant2_2437



11B-CDD_Ant1_2462



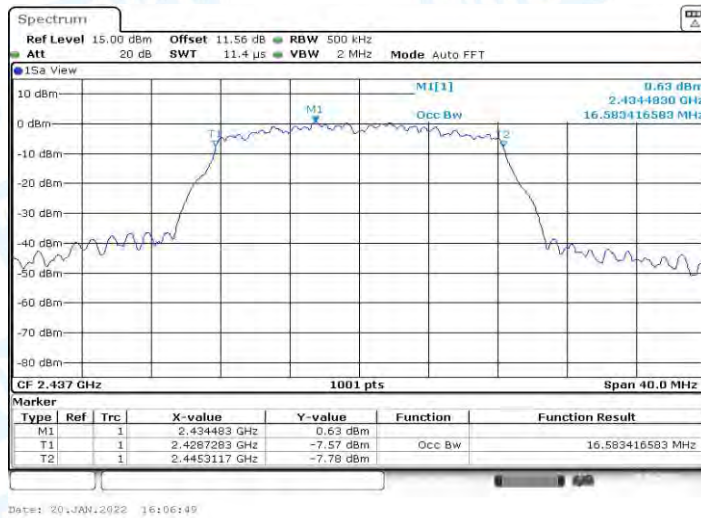
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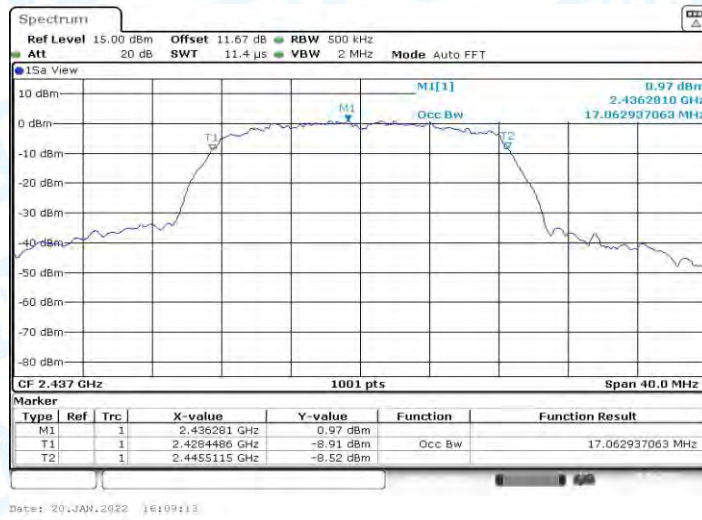
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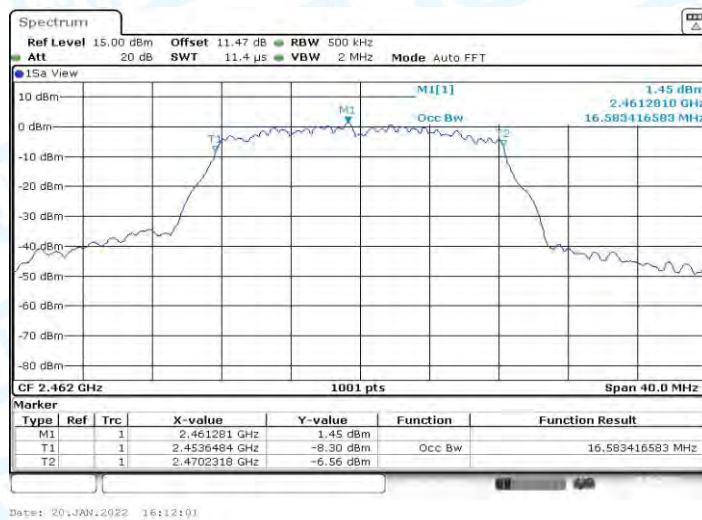
11G-CDD_Ant2_2412



11G-CDD_Ant1_2437



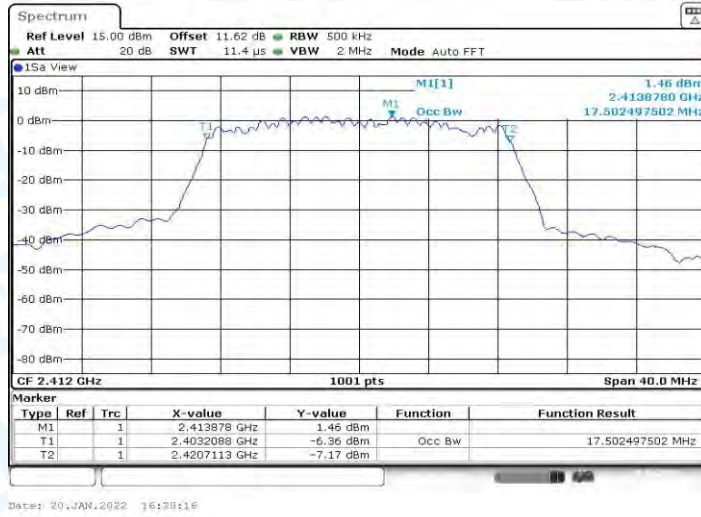
11G-CDD_Ant2_2437



11G-CDD_Ant1_2462



11G-CDD_Ant2_2462



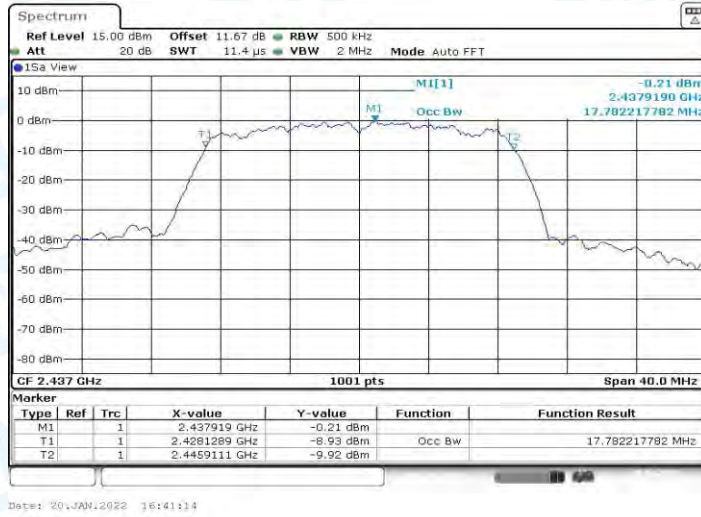
11N20MIMO_Ant1_2412



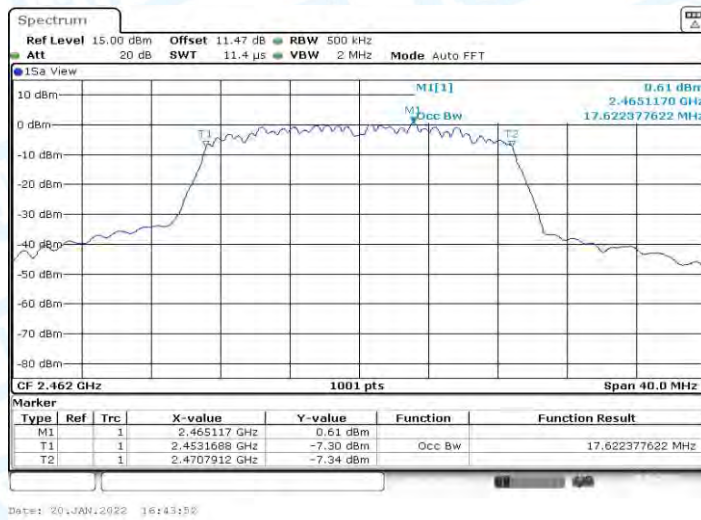
11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



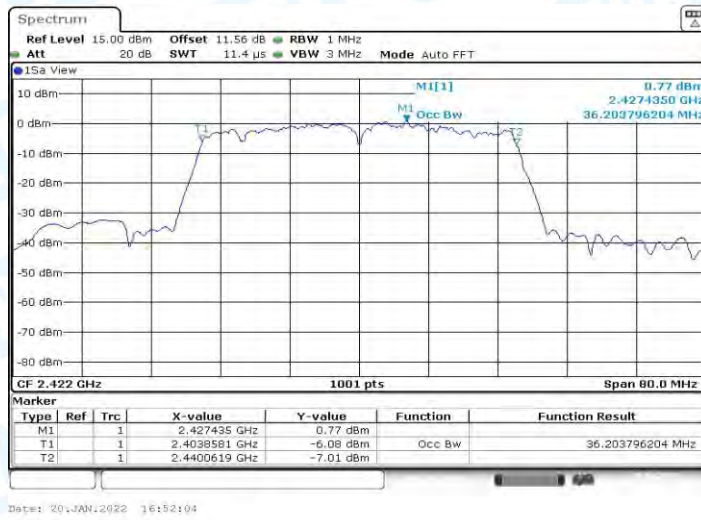
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11N20MIMO_Ant1_2462



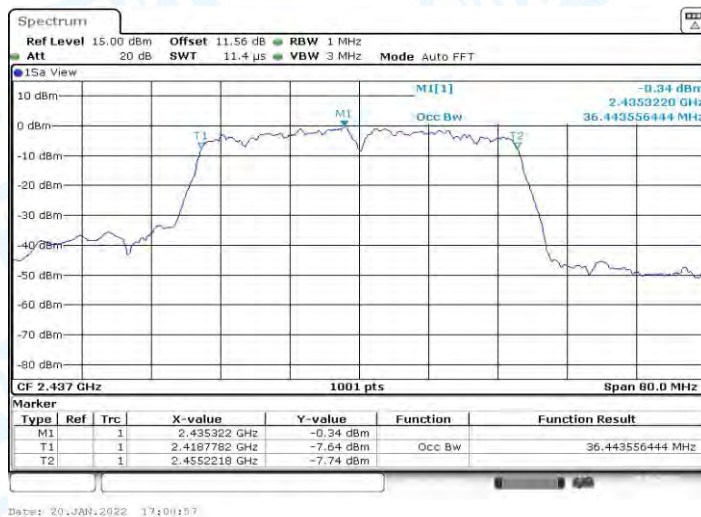
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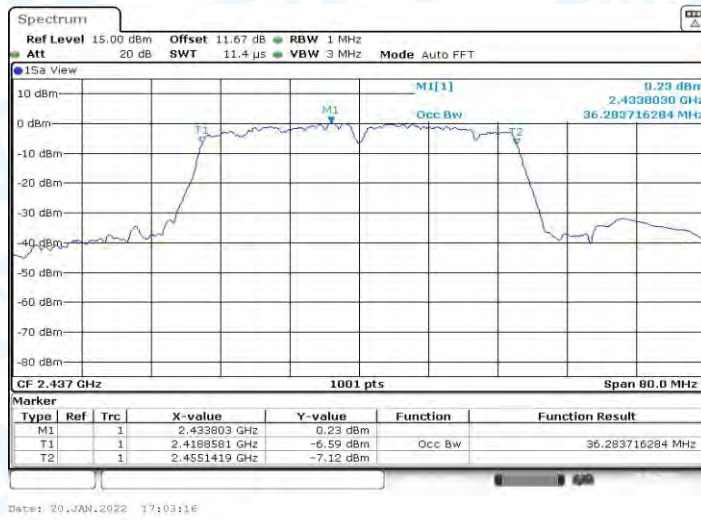
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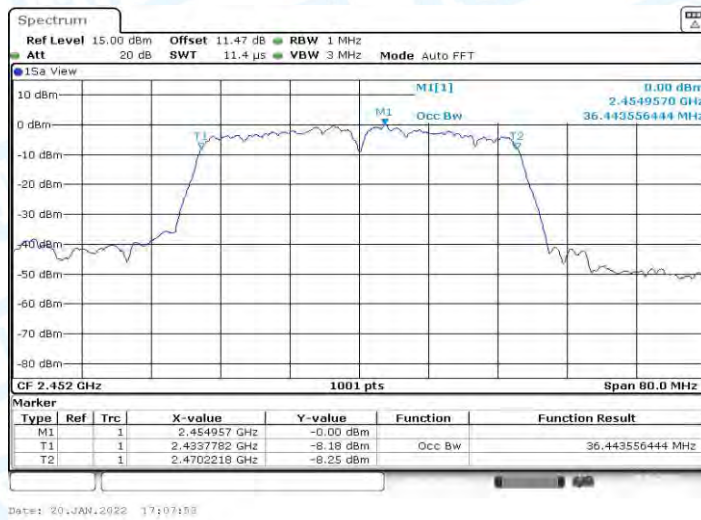
11N40MIMO_Ant2_2422



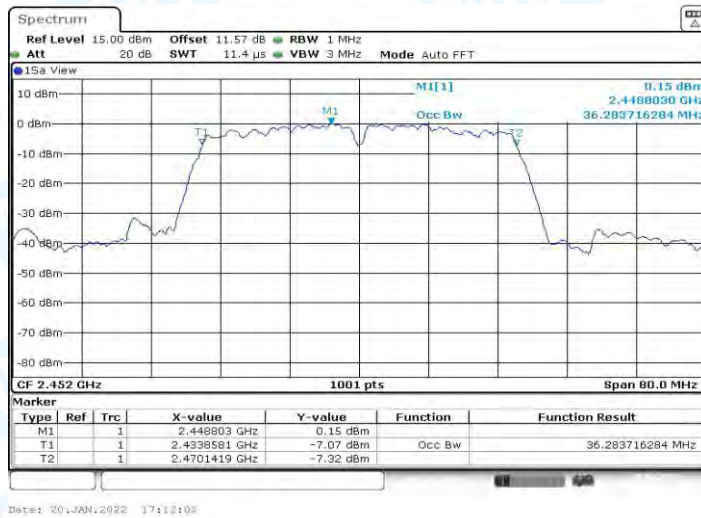
11N40MIMO_Ant1_2437



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	10.29	≤30.00	PASS
	Ant2	2412	11.44	≤30.00	PASS
	total	2412	13.91	≤29.99	PASS
	Ant1	2437	8.97	≤30.00	PASS
	Ant2	2437	10.80	≤30.00	PASS
	total	2437	12.99	≤29.99	PASS
	Ant1	2462	9.26	≤30.00	PASS
	Ant2	2462	11.15	≤30.00	PASS
	total	2462	13.32	≤29.99	PASS
11G-CDD	Ant1	2412	14.54	≤30.00	PASS
	Ant2	2412	16.00	≤30.00	PASS
	total	2412	18.34	≤29.99	PASS
	Ant1	2437	14.21	≤30.00	PASS
	Ant2	2437	15.57	≤30.00	PASS
	total	2437	17.95	≤29.99	PASS
	Ant1	2462	14.49	≤30.00	PASS
	Ant2	2462	15.48	≤30.00	PASS
	total	2462	18.02	≤29.99	PASS
11N20MIMO	Ant1	2412	14.56	≤30.00	PASS
	Ant2	2412	14.68	≤30.00	PASS
	total	2412	17.63	≤29.99	PASS
	Ant1	2437	13.40	≤30.00	PASS
	Ant2	2437	14.27	≤30.00	PASS
	total	2437	16.87	≤29.99	PASS
	Ant1	2462	13.78	≤30.00	PASS
	Ant2	2462	14.48	≤30.00	PASS
	total	2462	17.15	≤29.99	PASS
11N40MIMO	Ant1	2422	14.42	≤30.00	PASS
	Ant2	2422	14.90	≤30.00	PASS
	total	2422	17.68	≤29.99	PASS
	Ant1	2437	13.28	≤30.00	PASS
	Ant2	2437	14.47	≤30.00	PASS
	total	2437	16.93	≤29.99	PASS
	Ant1	2452	13.23	≤30.00	PASS
	Ant2	2452	14.45	≤30.00	PASS
	total	2452	16.89	≤29.99	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	-22.88	≤8.00	PASS
	Ant2	2412	-18.57	≤8.00	PASS
	total	2412	-17.20	≤7.99	PASS
	Ant1	2437	-24.21	≤8.00	PASS
	Ant2	2437	-19.43	≤8.00	PASS
	total	2437	-18.18	≤7.99	PASS
	Ant1	2462	-21.11	≤8.00	PASS
	Ant2	2462	-19.57	≤8.00	PASS
	total	2462	-17.26	≤7.99	PASS
11G-CDD	Ant1	2412	-16.09	≤8.00	PASS
	Ant2	2412	-16.05	≤8.00	PASS
	total	2412	-13.06	≤7.99	PASS
	Ant1	2437	-18.53	≤8.00	PASS
	Ant2	2437	-16.36	≤8.00	PASS
	total	2437	-14.30	≤7.99	PASS
	Ant1	2462	-17.9	≤8.00	PASS
	Ant2	2462	-17.28	≤8.00	PASS
	total	2462	-14.57	≤7.99	PASS
11N20MIMO	Ant1	2412	-17.05	≤8.00	PASS
	Ant2	2412	-17.32	≤8.00	PASS
	total	2412	-14.17	≤7.99	PASS
	Ant1	2437	-18.29	≤8.00	PASS
	Ant2	2437	-17.86	≤8.00	PASS
	total	2437	-15.06	≤7.99	PASS
	Ant1	2462	-17.54	≤8.00	PASS
	Ant2	2462	-16.33	≤8.00	PASS
	total	2462	-13.88	≤7.99	PASS
11N40MIMO	Ant1	2422	-22.33	≤8.00	PASS
	Ant2	2422	-21.74	≤8.00	PASS
	total	2422	-19.01	≤7.99	PASS
	Ant1	2437	-22.82	≤8.00	PASS
	Ant2	2437	-22.68	≤8.00	PASS
	total	2437	-19.74	≤7.99	PASS
	Ant1	2452	-23.59	≤8.00	PASS
	Ant2	2452	-22.13	≤8.00	PASS
	total	2452	-19.79	≤7.99	PASS

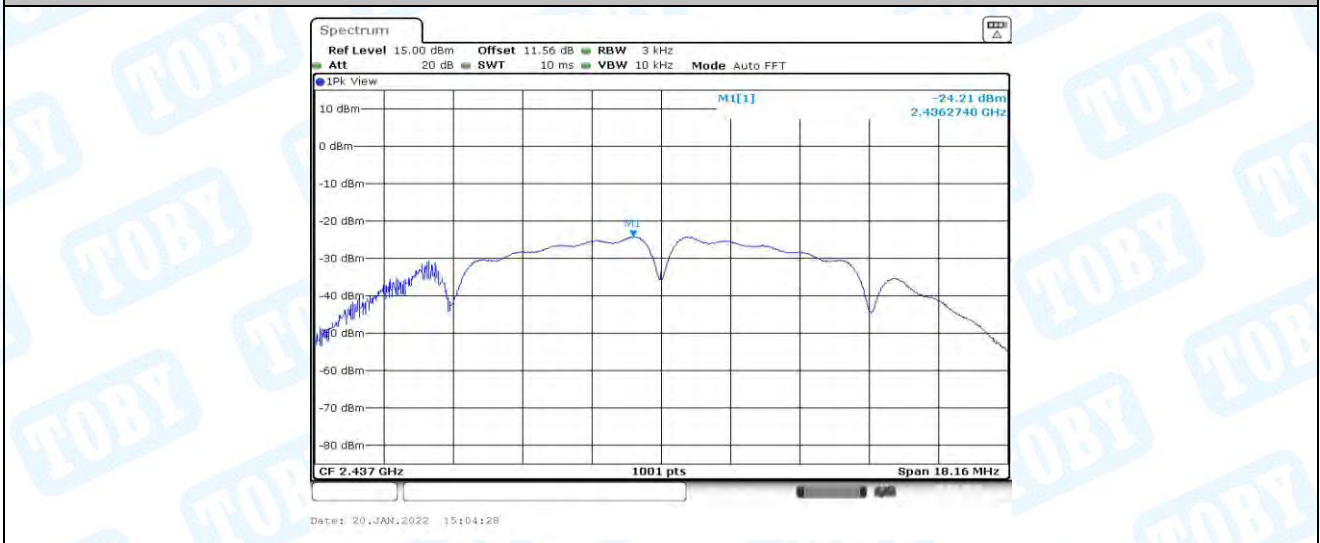
4.2. Test Graphs



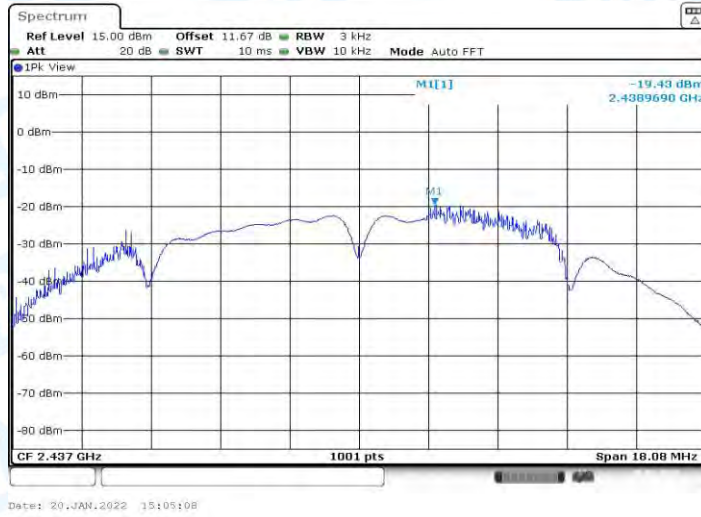
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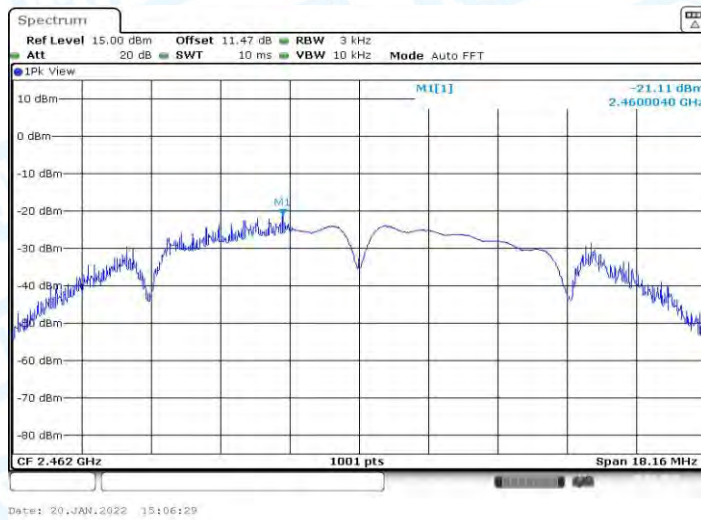
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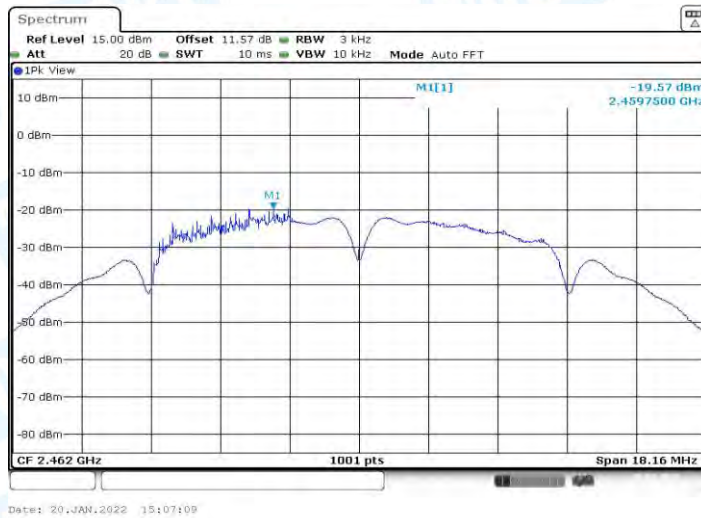
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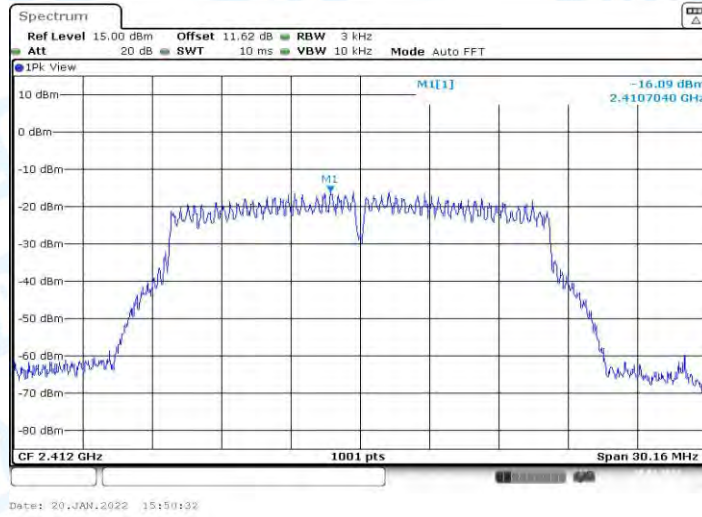
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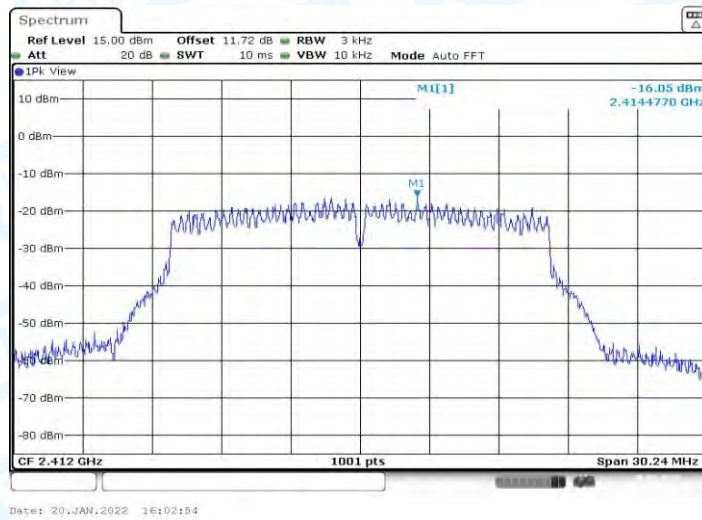
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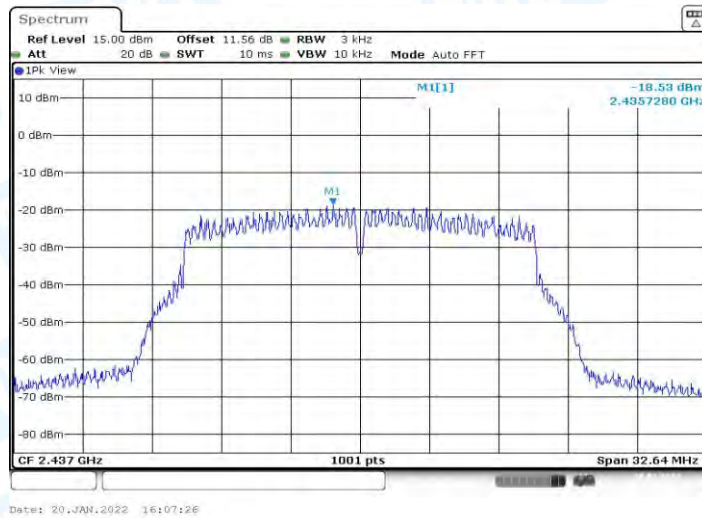
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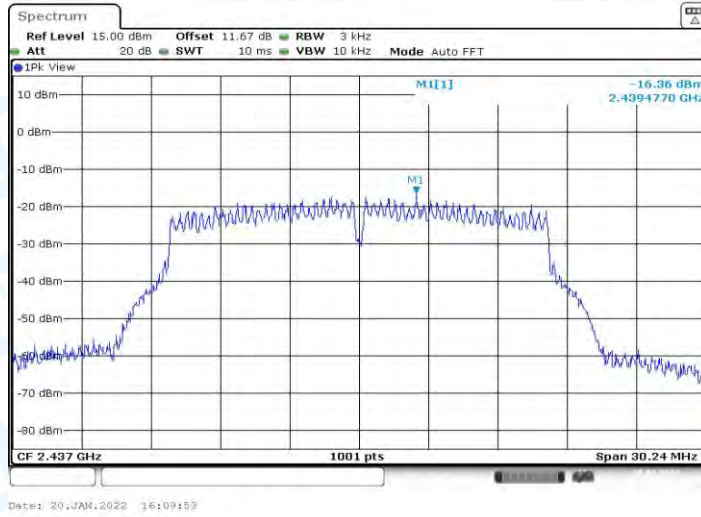
11G-CDD_Ant1_2412



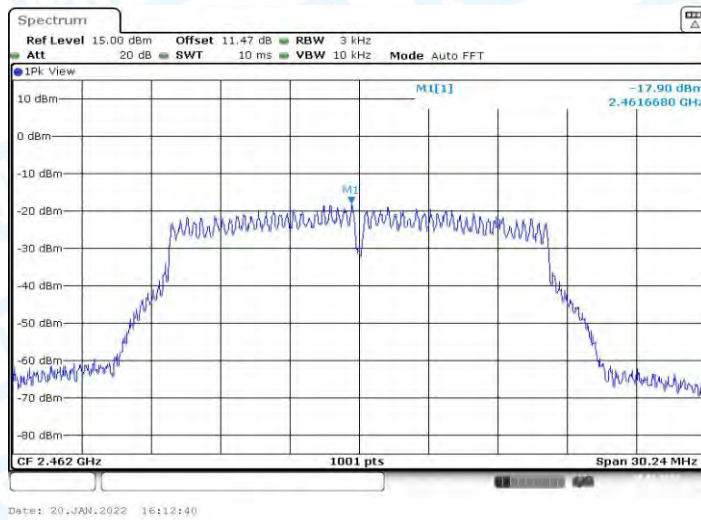
11G-CDD_Ant2_2412



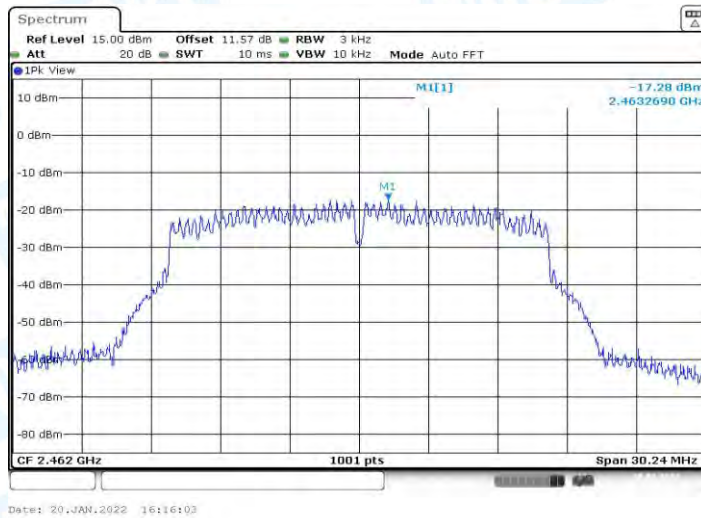
11G-CDD_Ant1_2437



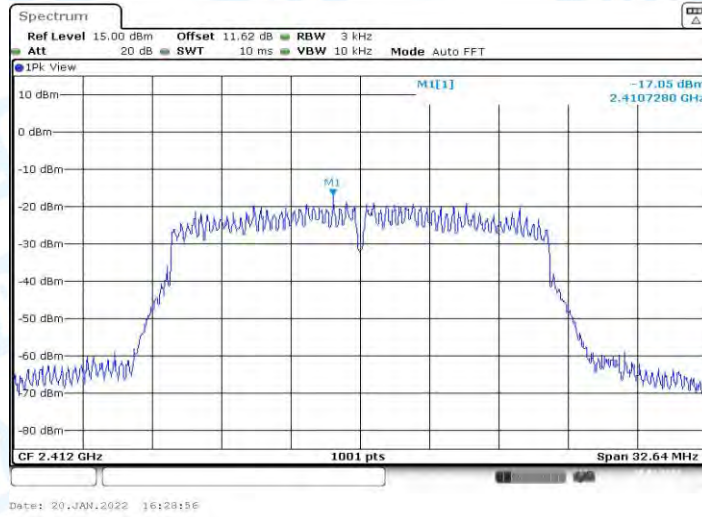
11G-CDD_Ant2_2437



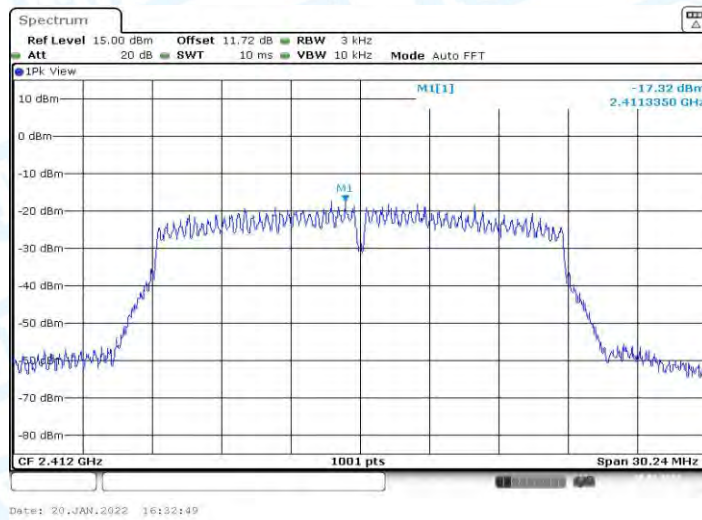
11G-CDD_Ant1_2462



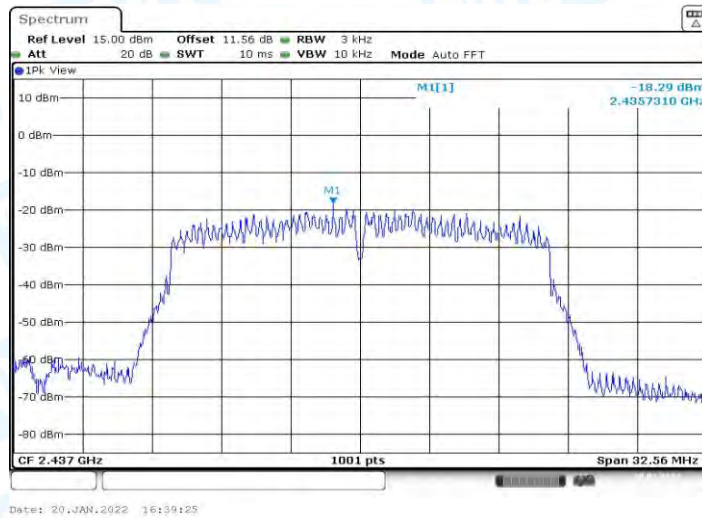
11G-CDD_Ant2_2462



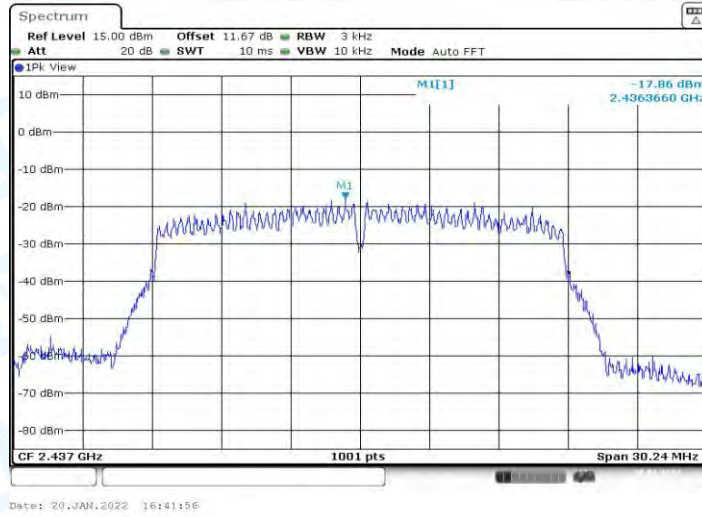
11N20MIMO_Ant1_2412



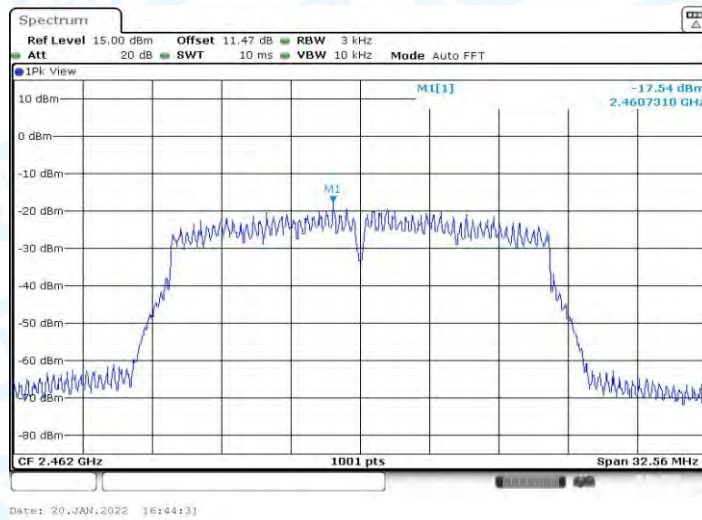
11N20MIMO_Ant2_2412



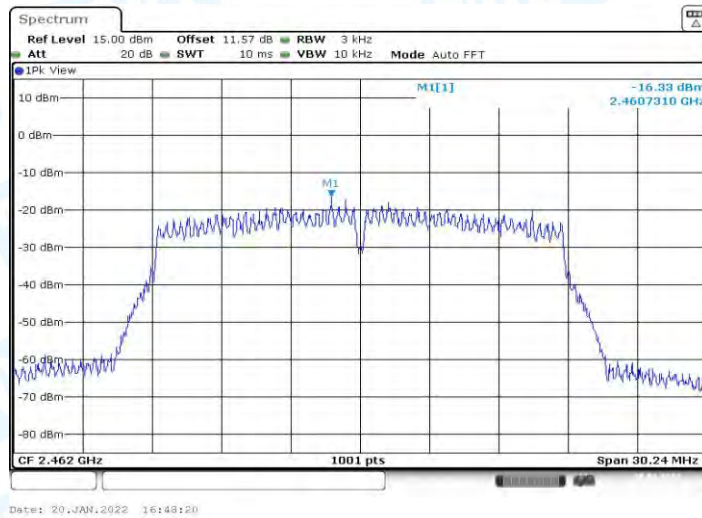
11N20MIMO_Ant1_2437



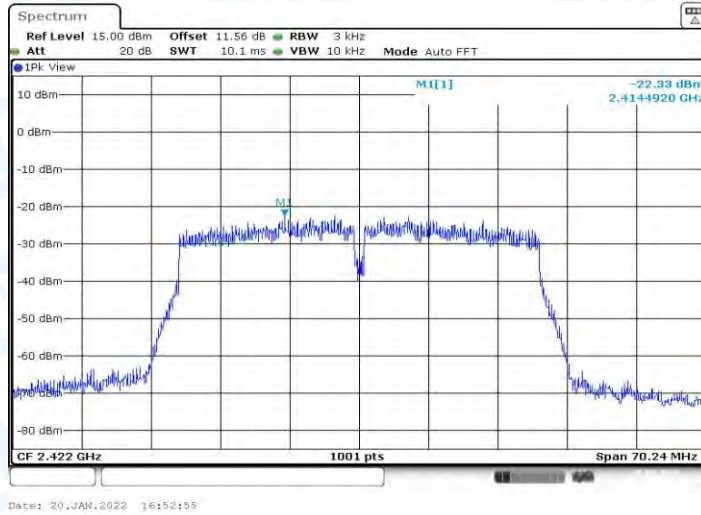
11N20MIMO_Ant2_2437



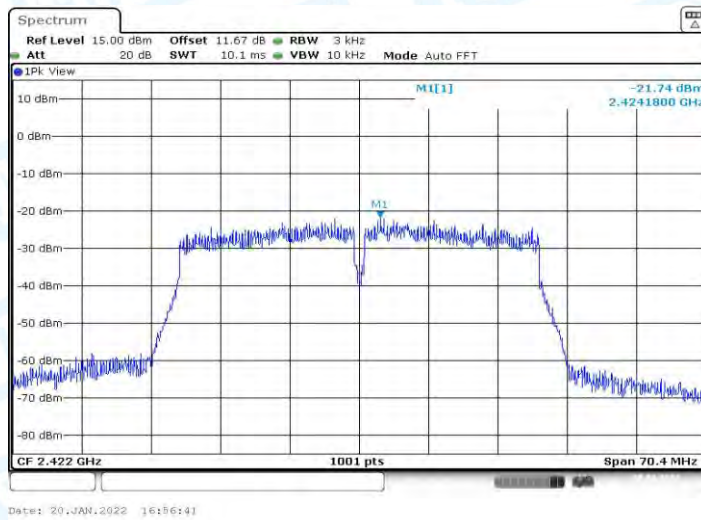
11N20MIMO_Ant1_2462



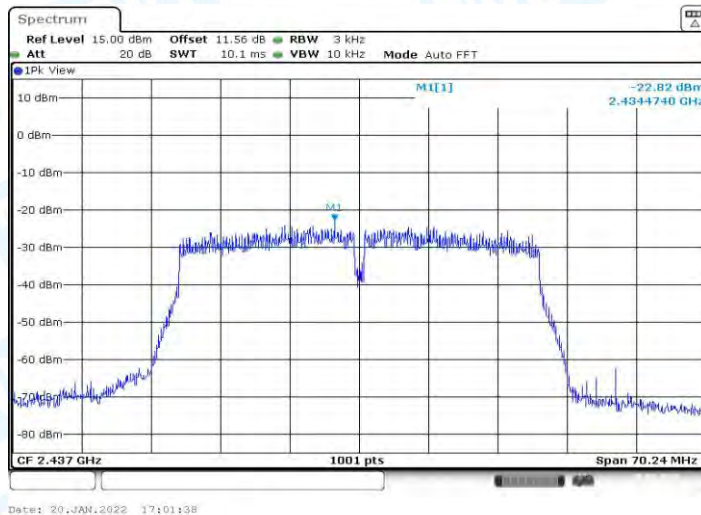
11N20MIMO_Ant2_2462



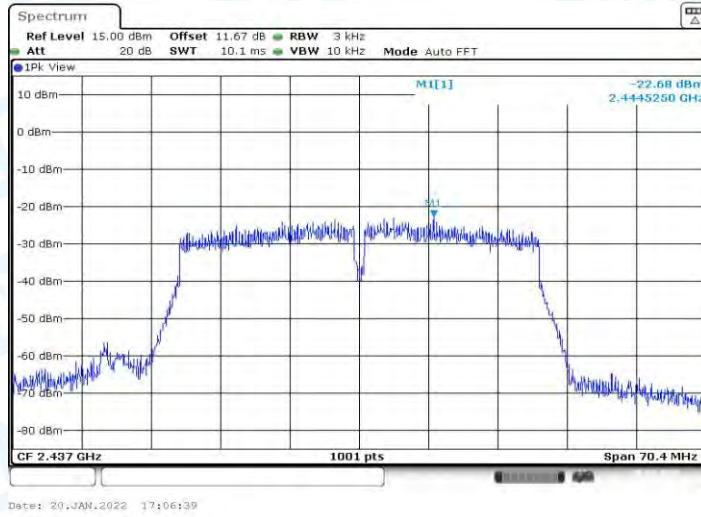
11N40MIMO_Ant1_2422



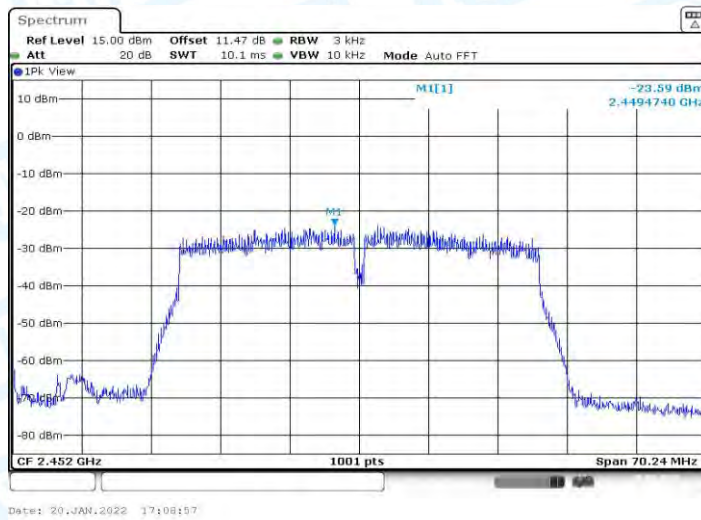
11N40MIMO_Ant2_2422



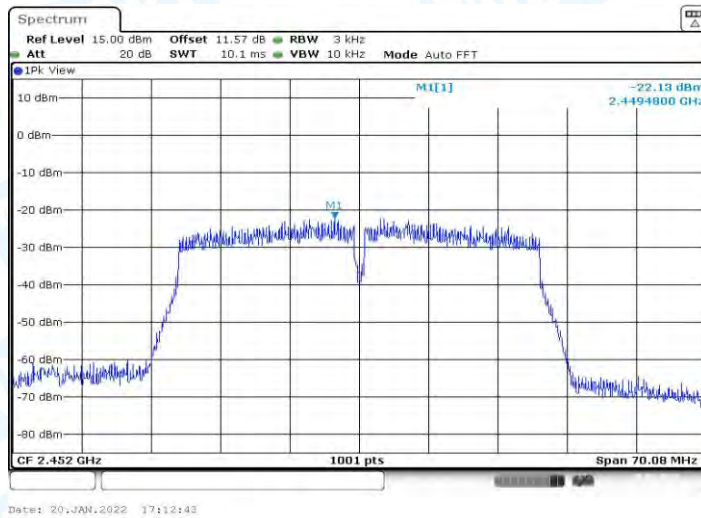
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



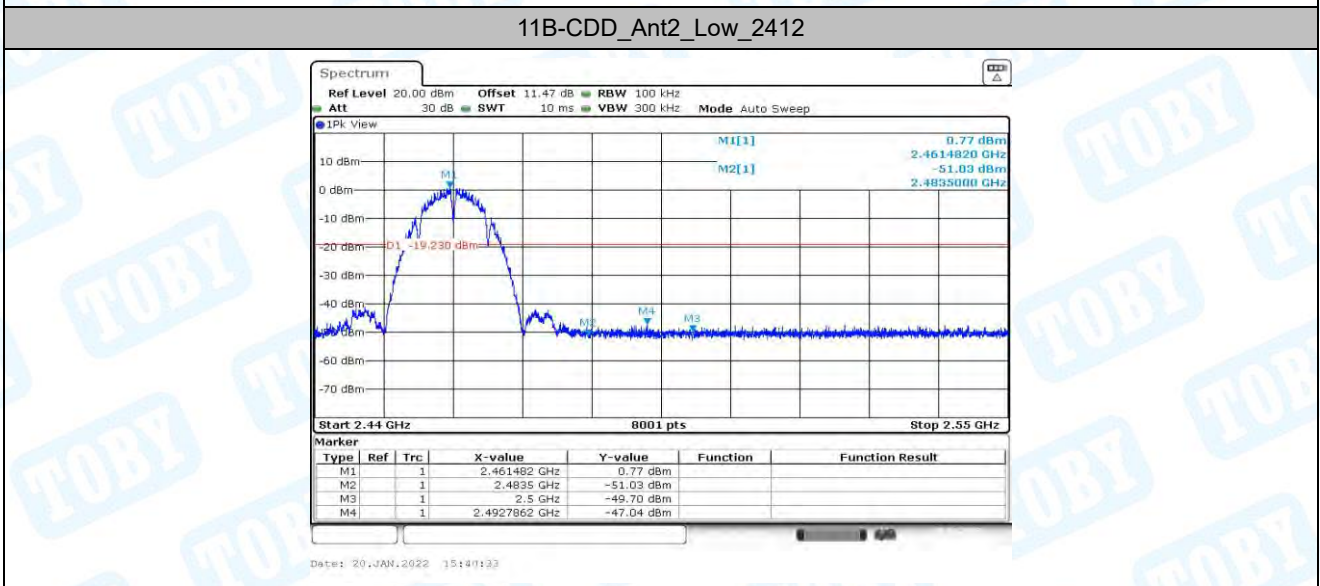
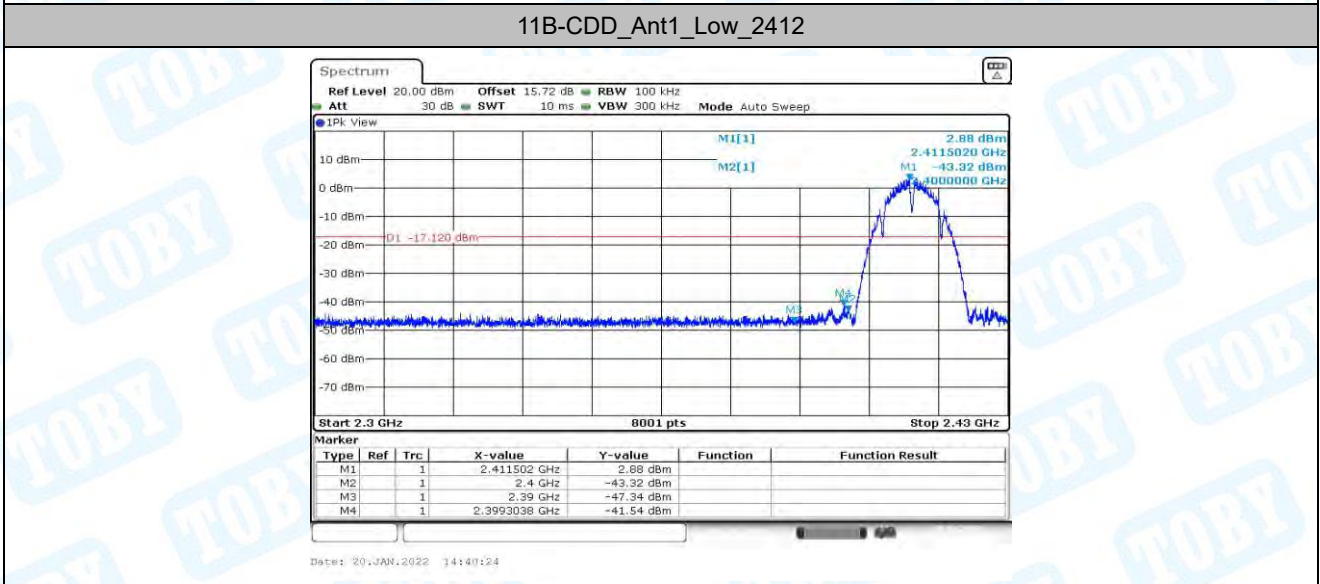
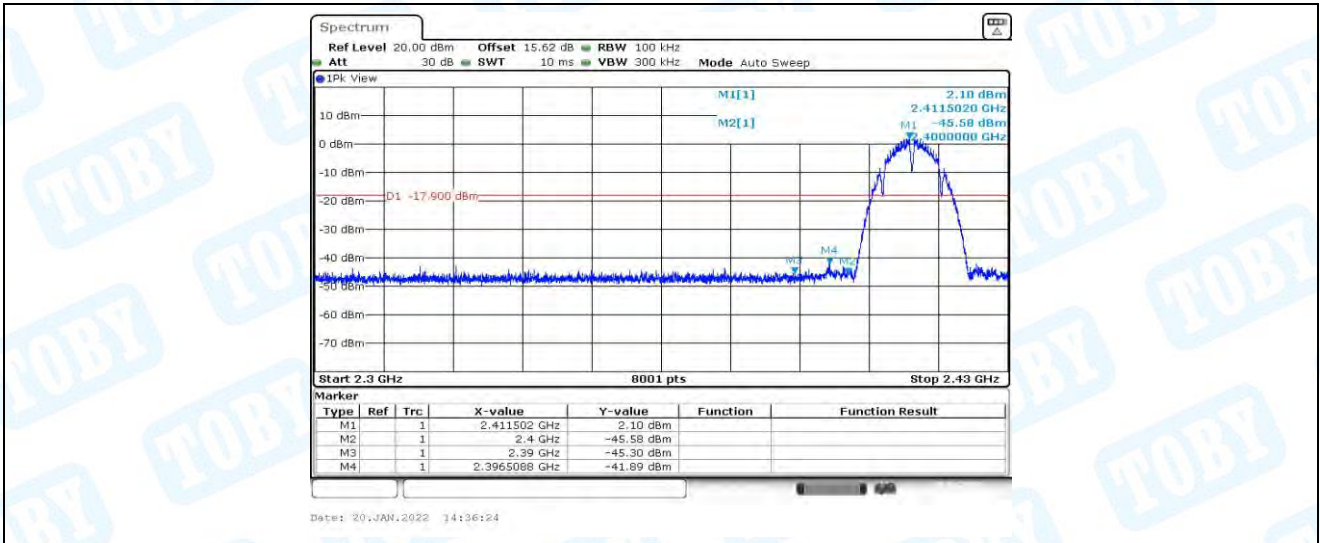
11N40MIMO_Ant2_2452

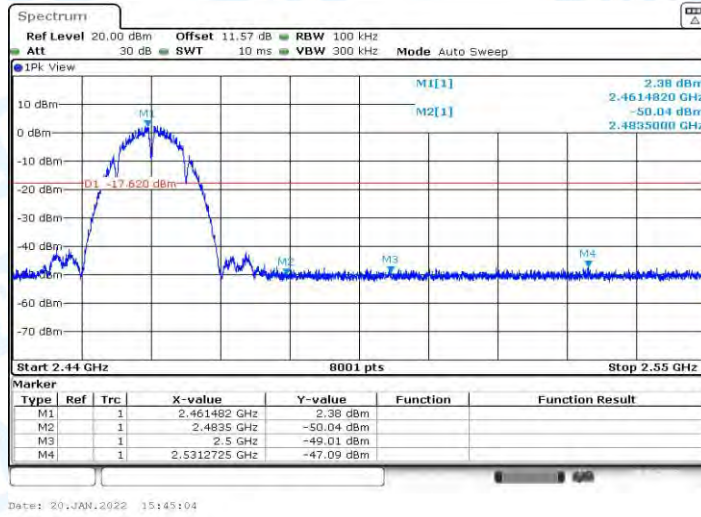
5. Band edge measurements

5.1. Test Result

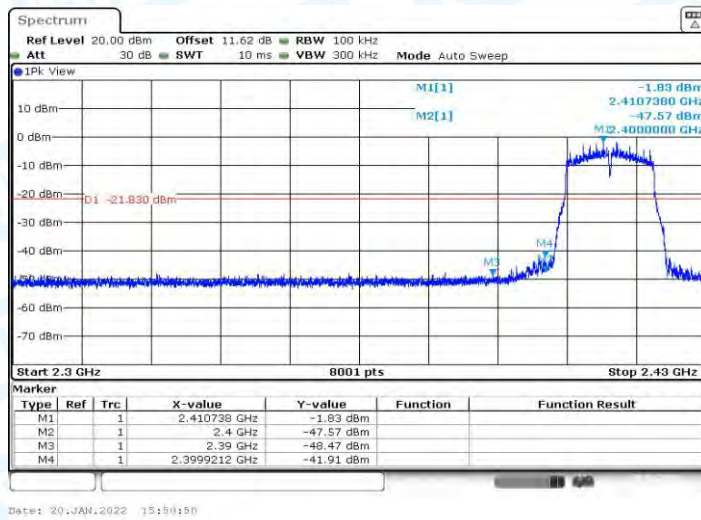
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	2.10	-41.89	≤-17.9	PASS
	Ant2	Low	2412	2.88	-41.54	≤-17.12	PASS
	Ant1	High	2462	0.77	-47.04	≤-19.23	PASS
	Ant2	High	2462	2.38	-47.09	≤-17.62	PASS
11G-CDD	Ant1	Low	2412	-1.83	-41.91	≤-21.83	PASS
	Ant2	Low	2412	-2.59	-38.35	≤-22.59	PASS
	Ant1	High	2462	-4.28	-46.76	≤-24.28	PASS
	Ant2	High	2462	-2.80	-46.9	≤-22.8	PASS
11N20MIMO	Ant1	Low	2412	-4.51	-41.79	≤-24.51	PASS
	Ant2	Low	2412	-3.82	-40.79	≤-23.82	PASS
	Ant1	High	2462	-4.97	-46.68	≤-24.97	PASS
	Ant2	High	2462	-3.60	-45.81	≤-23.6	PASS
11N40MIMO	Ant1	Low	2422	-7.04	-42.37	≤-27.04	PASS
	Ant2	Low	2422	-6.19	-39.05	≤-26.19	PASS
	Ant1	High	2452	-7.87	-47.53	≤-27.87	PASS
	Ant2	High	2452	-6.47	-45.21	≤-26.47	PASS

5.2. Test Graphs

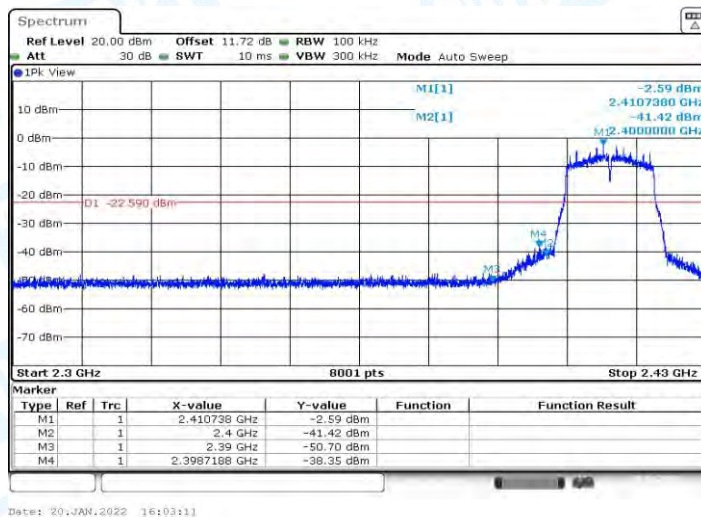




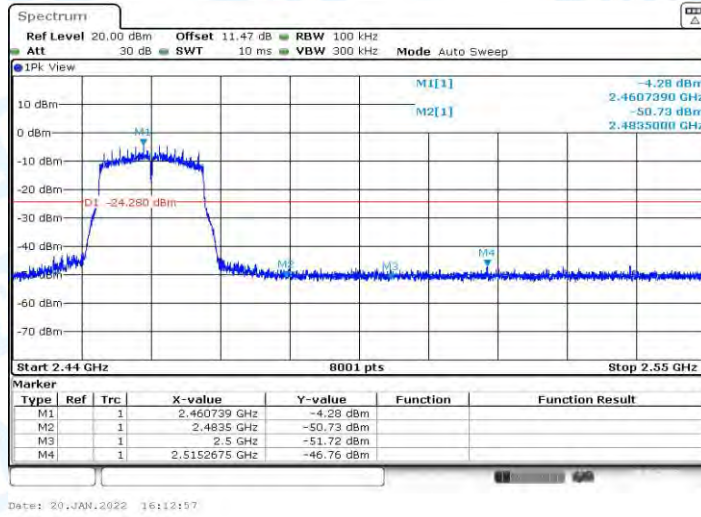
11B-CDD_Ant2_High_2462



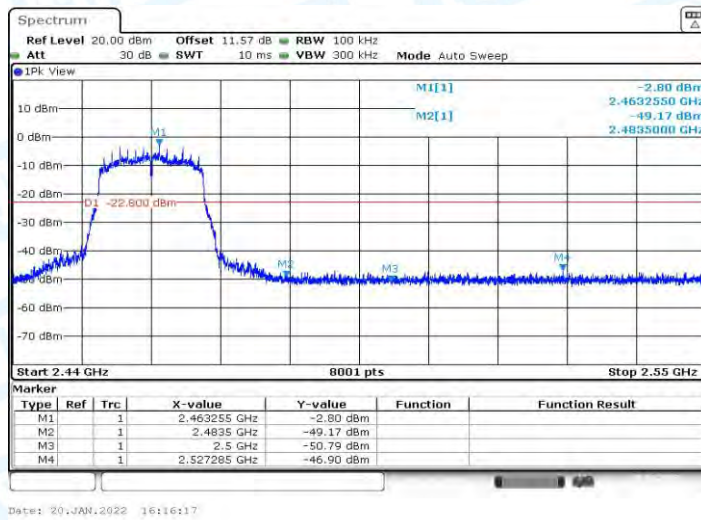
11G-CDD_Ant1_Low_2412



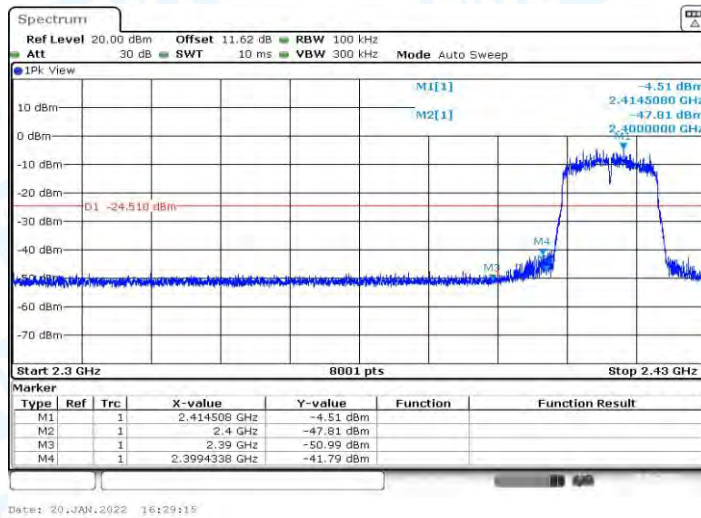
11G-CDD_Ant2_Low_2412



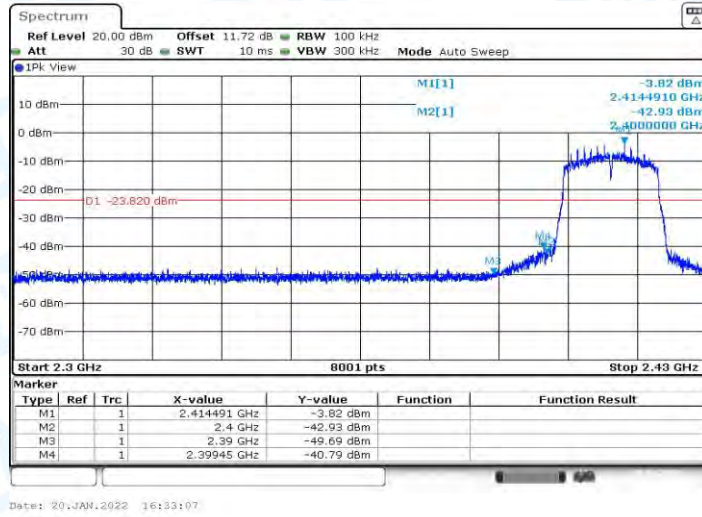
11G-CDD_Ant1_High_2462



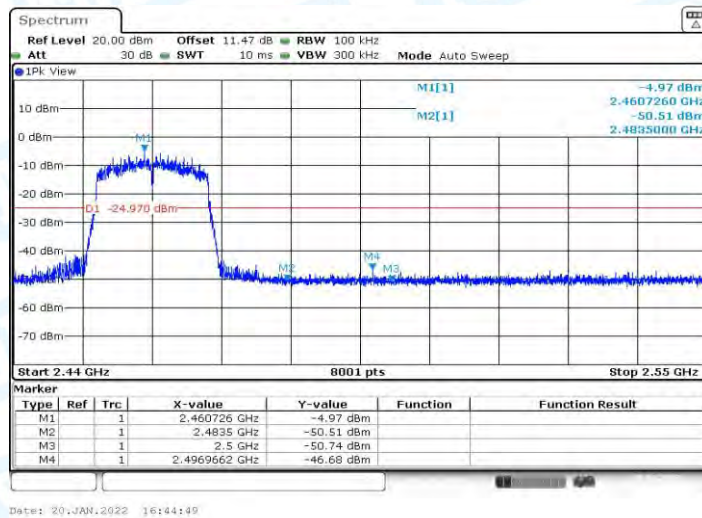
11G-CDD_Ant2_High_2462



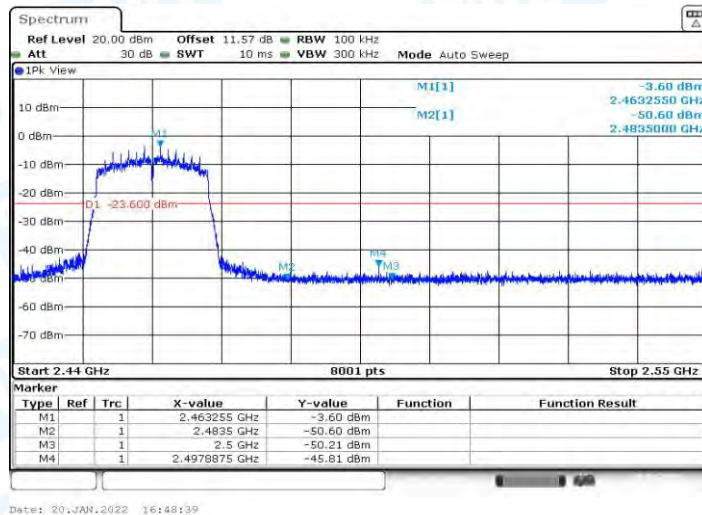
11N20MIMO_Ant1_Low_2412



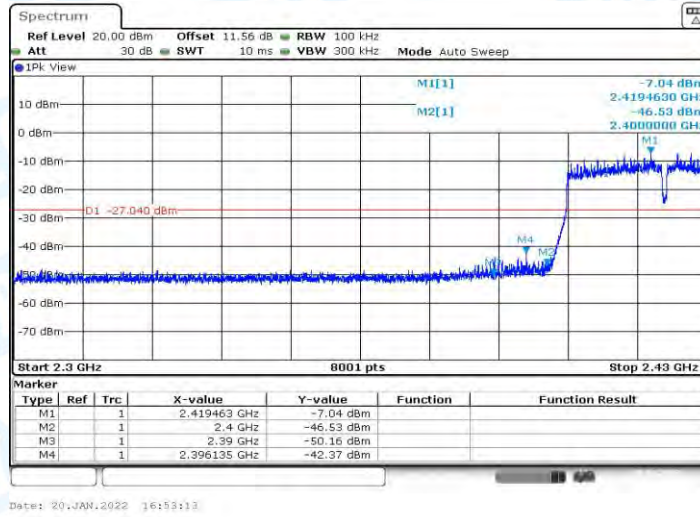
11N20MIMO_Ant2_Low_2412



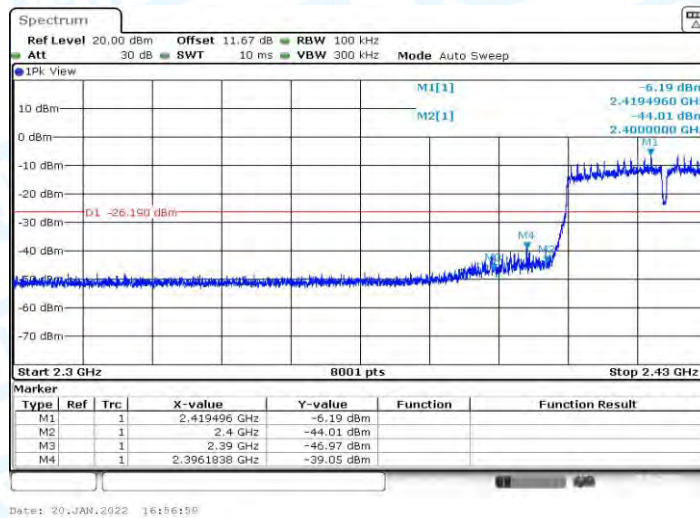
11N20MIMO_Ant1_High_2462



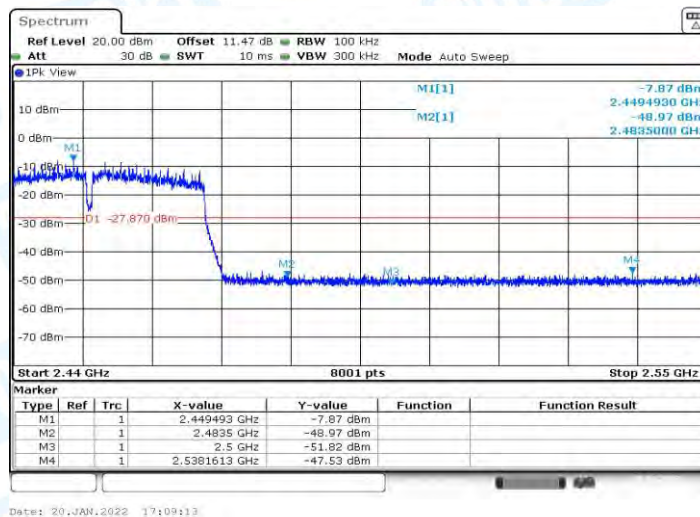
11N20MIMO_Ant2_High_2462



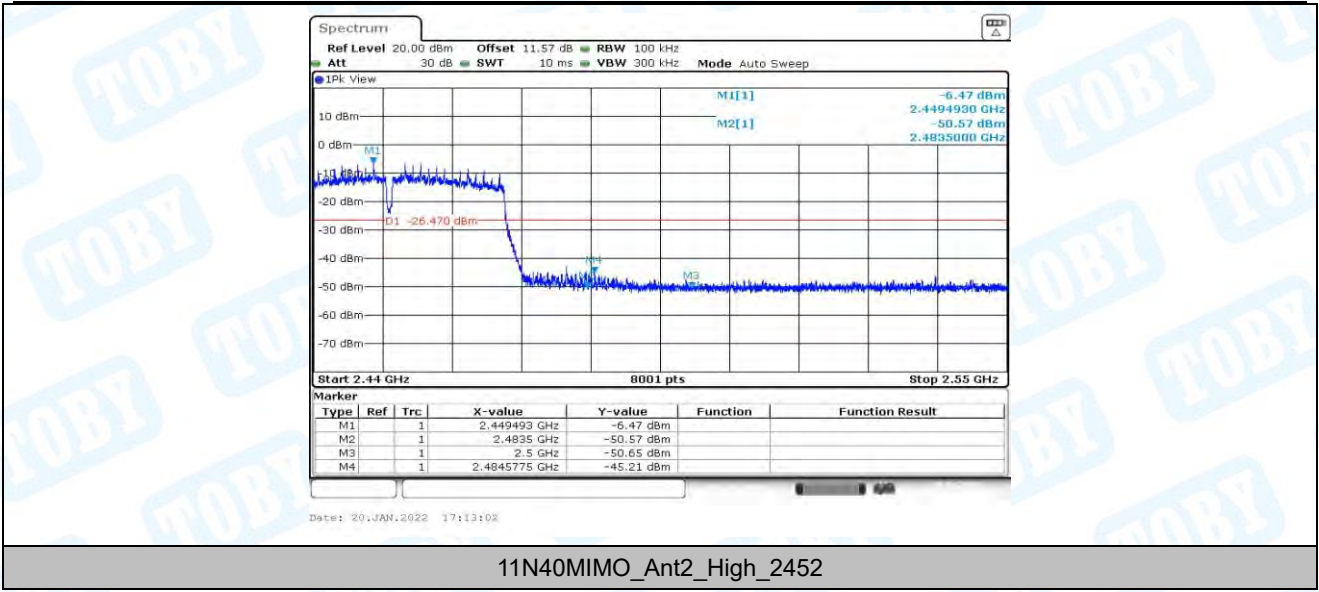
11N40MIMO_Ant1_Low_2422



11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452



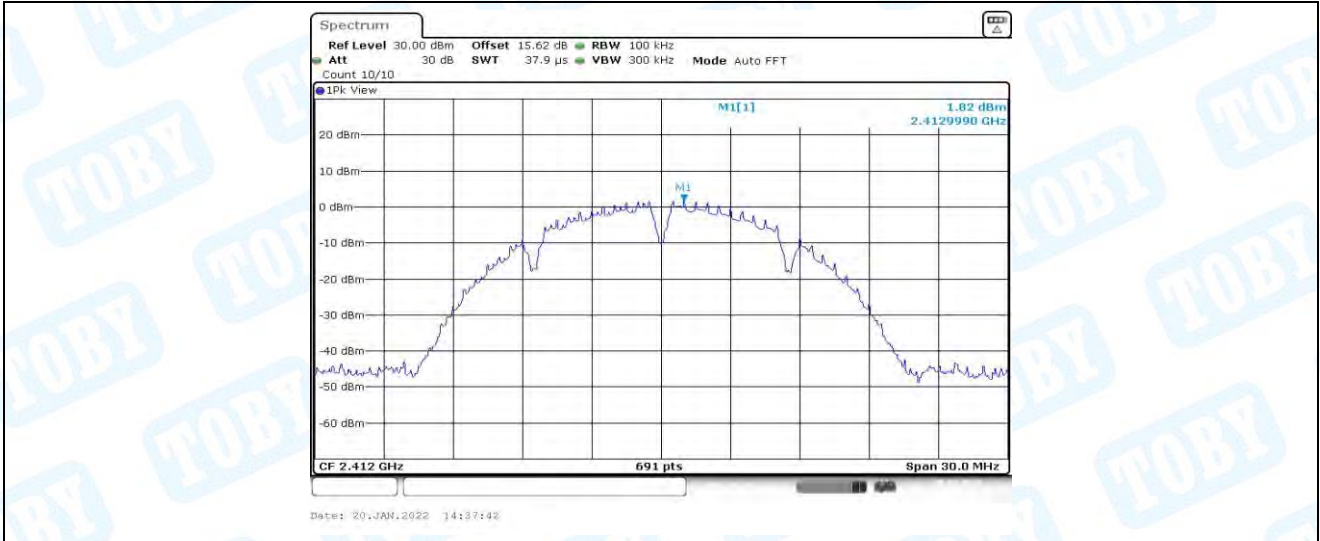
6. Conducted Spurious Emission

6.1. Test Result

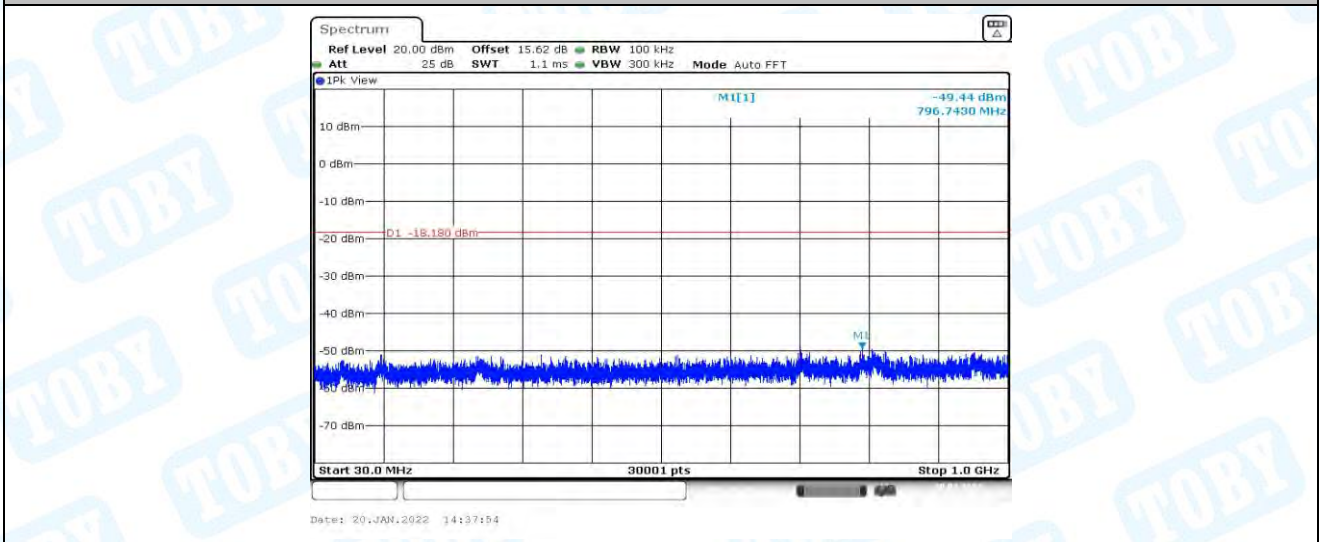
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
11B-CDD	Ant1	2412	Reference	1.82	1.82	---	PASS	
			30~1000	1.82	-49.44	≤-18.18	PASS	
			1000~26500	1.82	-43.04	≤-18.18	PASS	
	Ant2	2412	Reference	2.92	2.92	---	PASS	
			30~1000	2.92	-48.88	≤-17.08	PASS	
			1000~26500	2.92	-41.86	≤-17.08	PASS	
	Ant1	2437	Reference	0.22	0.22	---	PASS	
			30~1000	0.22	-48.57	≤-19.78	PASS	
			1000~26500	0.22	-42.73	≤-19.78	PASS	
	Ant2	2437	Reference	2.25	2.25	---	PASS	
			30~1000	2.25	-49.23	≤-17.75	PASS	
			1000~26500	2.25	-43.07	≤-17.75	PASS	
	Ant1	2462	Reference	0.87	0.87	---	PASS	
			30~1000	0.87	-53.38	≤-19.13	PASS	
			1000~26500	0.87	-42.94	≤-19.13	PASS	
	Ant2	2462	Reference	2.41	2.41	---	PASS	
			30~1000	2.41	-53.24	≤-17.59	PASS	
			1000~26500	2.41	-43.29	≤-17.59	PASS	
	11G-CDD	Ant1	2412	Reference	-1.39	-1.39	---	PASS
				30~1000	-1.39	-51.91	≤-21.39	PASS
				1000~26500	-1.39	-46.23	≤-21.39	PASS
		Ant2	2412	Reference	-3.40	-3.40	---	PASS
				30~1000	-3.40	-53.16	≤-23.4	PASS
				1000~26500	-3.40	-46.63	≤-23.4	PASS
Ant1		2437	Reference	-5.35	-5.35	---	PASS	
			30~1000	-5.35	-53.29	≤-25.35	PASS	
			1000~26500	-5.35	-45.95	≤-25.35	PASS	
Ant2		2437	Reference	-3.41	-3.41	---	PASS	
			30~1000	-3.41	-53.34	≤-23.41	PASS	
			1000~26500	-3.41	-47.01	≤-23.41	PASS	
Ant1		2462	Reference	-4.04	-4.04	---	PASS	
			30~1000	-4.04	-53.49	≤-24.04	PASS	
			1000~26500	-4.04	-36.98	≤-24.04	PASS	
Ant2		2462	Reference	-3.39	-3.39	---	PASS	
			30~1000	-3.39	-53.12	≤-23.39	PASS	
			1000~26500	-3.39	-47.07	≤-23.39	PASS	
11N20MIMO		Ant1	2412	Reference	-4.39	-4.39	---	PASS
				30~1000	-4.39	-53.84	≤-24.39	PASS
				1000~26500	-4.39	-46.25	≤-24.39	PASS
		Ant2	2412	Reference	-3.98	-3.98	---	PASS
				30~1000	-3.98	-52.11	≤-23.98	PASS

	Ant1	2437	1000~26500	-3.98	-46.19	≤-23.98	PASS
			Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-52.8	≤-25.76	PASS
	Ant2	2437	1000~26500	-5.76	-47.26	≤-25.76	PASS
			Reference	-3.68	-3.68	---	PASS
			30~1000	-3.68	-52.26	≤-23.68	PASS
	Ant1	2462	1000~26500	-3.68	-46.02	≤-23.68	PASS
			Reference	-6.59	-6.59	---	PASS
			30~1000	-6.59	-53.6	≤-26.59	PASS
	Ant2	2462	1000~26500	-6.59	-46.87	≤-26.59	PASS
			Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-53.26	≤-23.39	PASS
11N40MIMO	Ant1	2422	1000~26500	-3.39	-46.43	≤-23.39	PASS
			Reference	-7.14	-7.14	---	PASS
			30~1000	-7.14	-53.35	≤-27.14	PASS
	Ant2	2422	1000~26500	-7.14	-46.76	≤-27.14	PASS
			Reference	-6.96	-6.96	---	PASS
			30~1000	-6.96	-52.84	≤-26.96	PASS
	Ant1	2437	1000~26500	-6.96	-47.09	≤-26.96	PASS
			Reference	-8.34	-8.34	---	PASS
			30~1000	-8.34	-54.06	≤-28.34	PASS
	Ant2	2437	1000~26500	-8.34	-46.98	≤-28.34	PASS
			Reference	-6.58	-6.58	---	PASS
			30~1000	-6.58	-53.21	≤-26.58	PASS
	Ant1	2452	1000~26500	-6.58	-47.1	≤-26.58	PASS
			Reference	-8.63	-8.63	---	PASS
			30~1000	-8.63	-52.98	≤-28.63	PASS
	Ant2	2452	1000~26500	-8.63	-47.16	≤-28.63	PASS
			Reference	-6.28	-6.28	---	PASS
			30~1000	-6.28	-53.49	≤-26.28	PASS
			1000~26500	-6.28	-46.68	≤-26.28	PASS

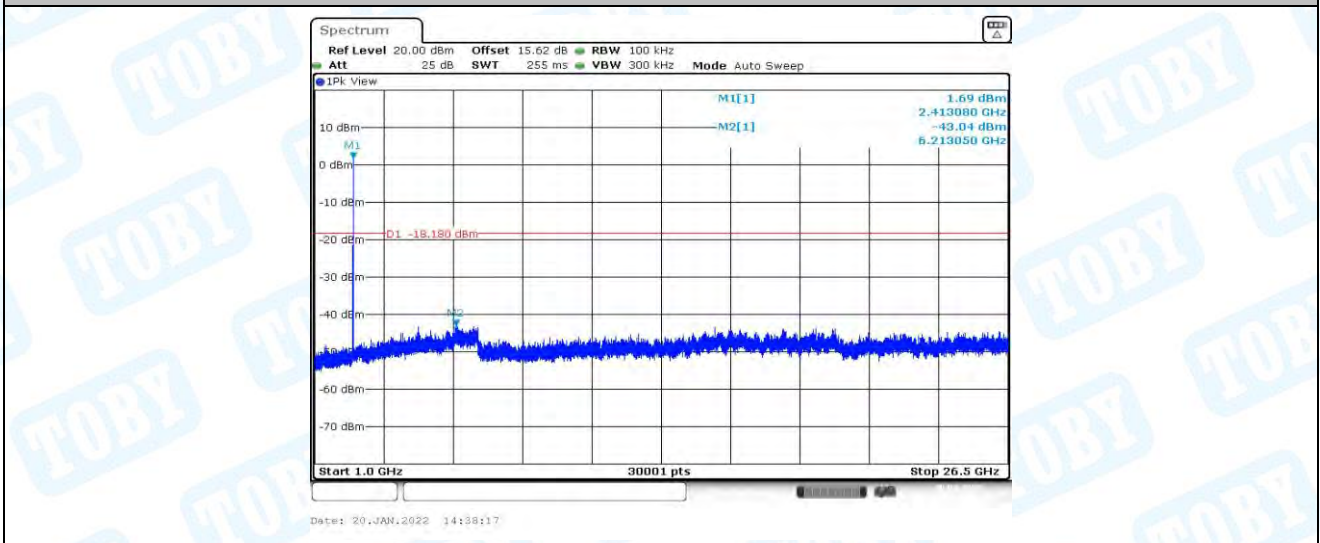
6.2. Test Graphs



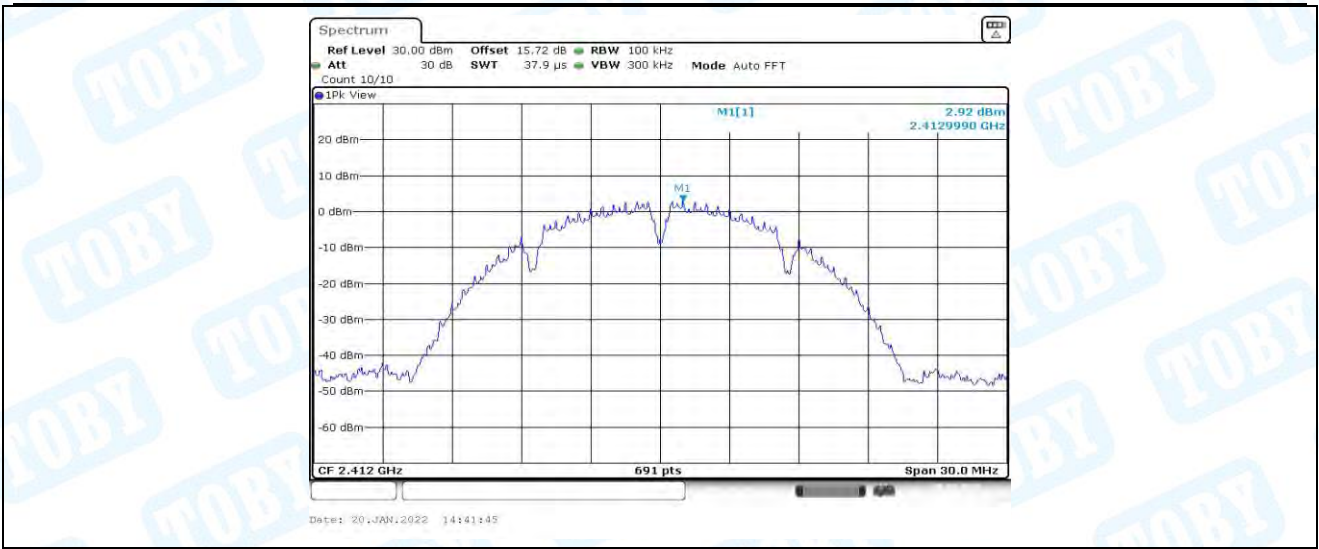
11B-CDD_Ant1_2412_0~Reference



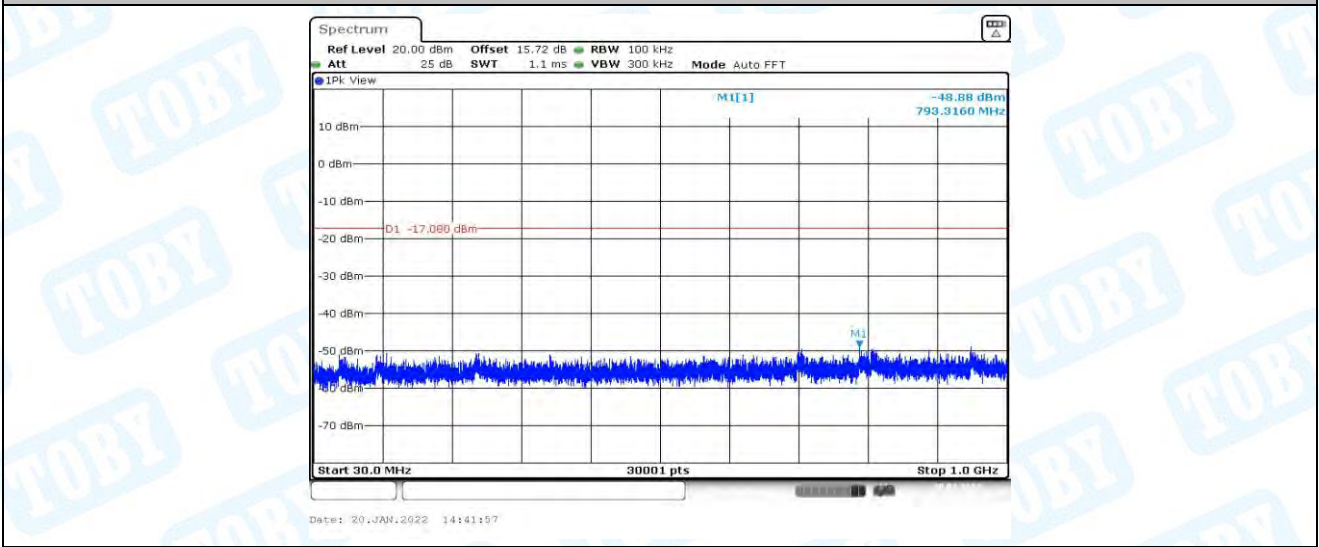
11B-CDD_Ant1_2412_30~1000



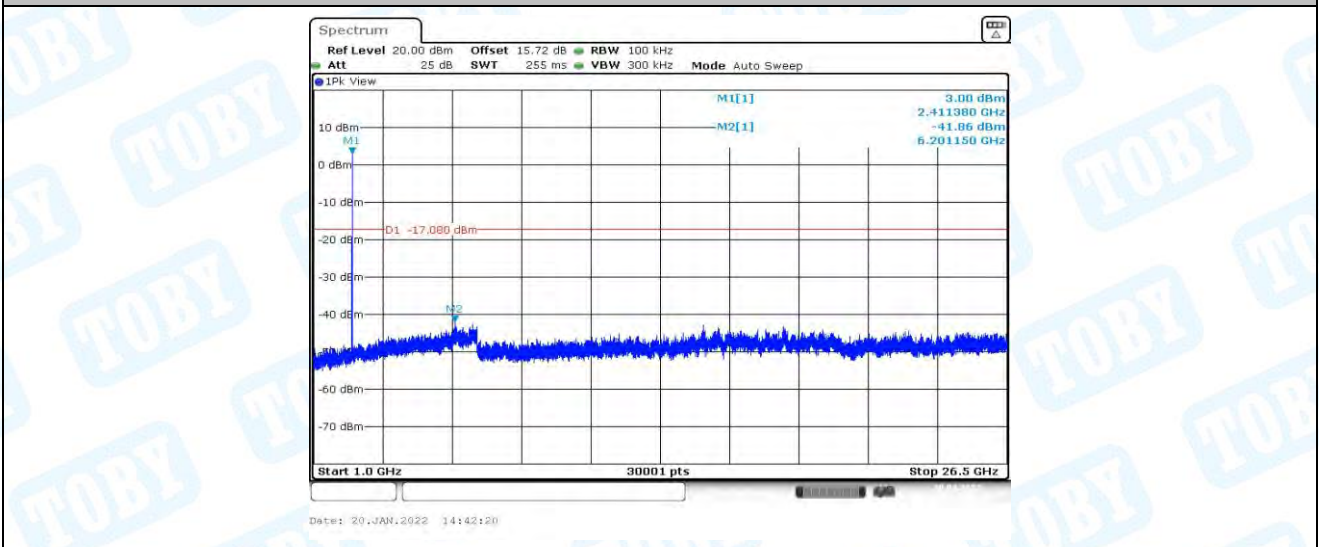
11B-CDD_Ant1_2412_1000~26500



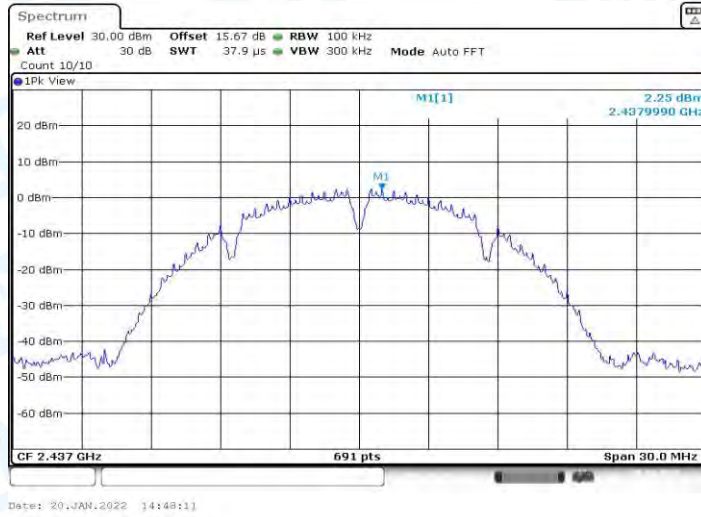
11B-CDD_Ant2_2412_0~Reference



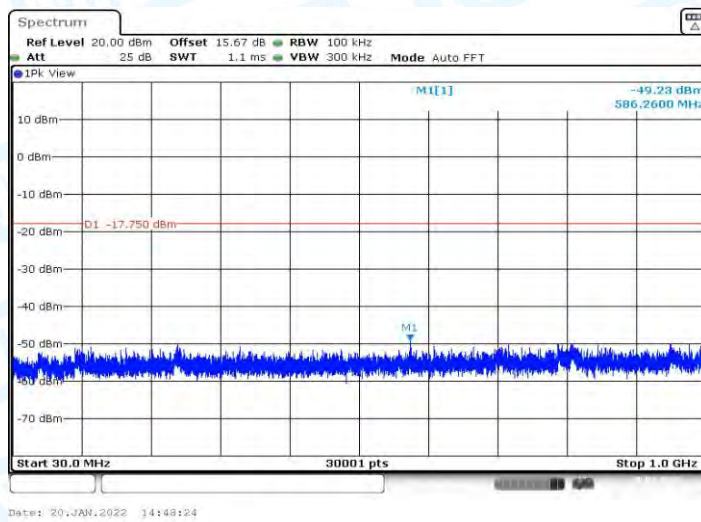
11B-CDD_Ant2_2412_30~1000



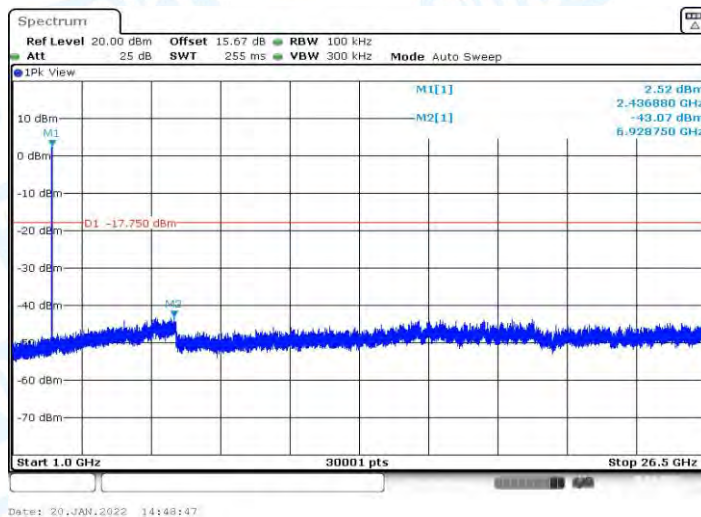
11B-CDD_Ant2_2412_1000~26500



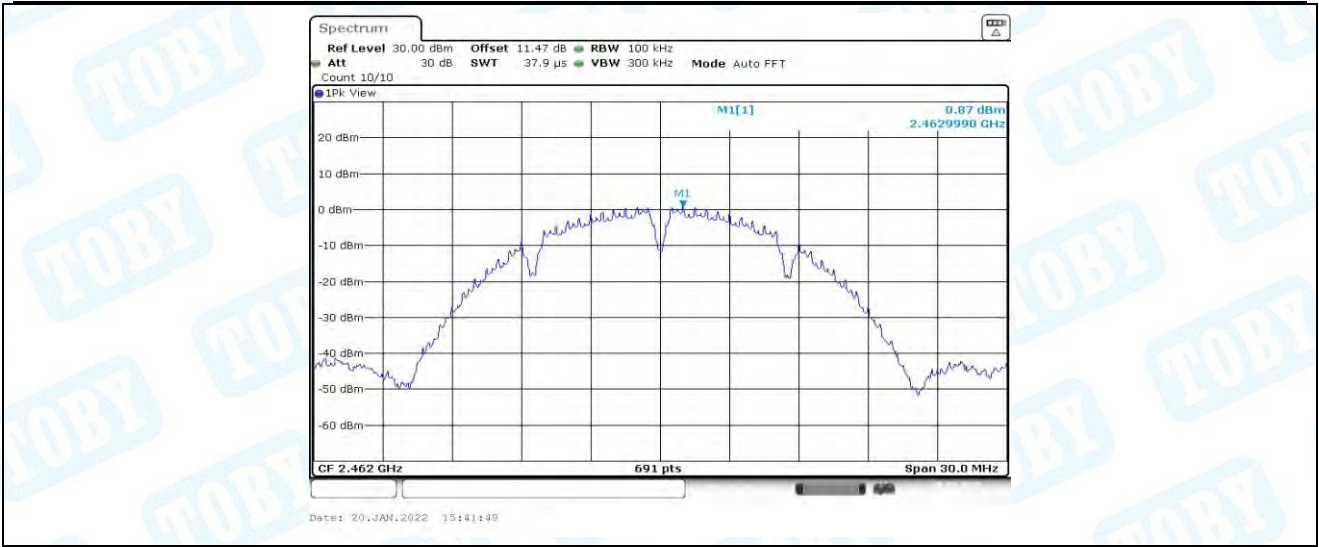
11B-CDD_Ant2_2437_0~Reference



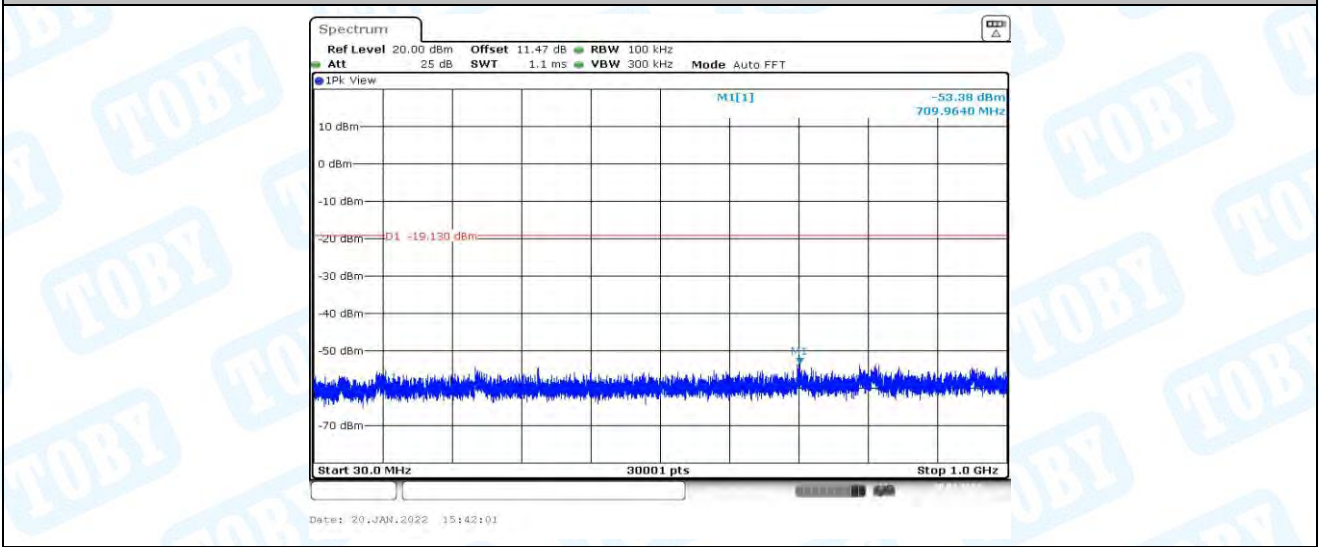
11B-CDD_Ant2_2437_30~1000



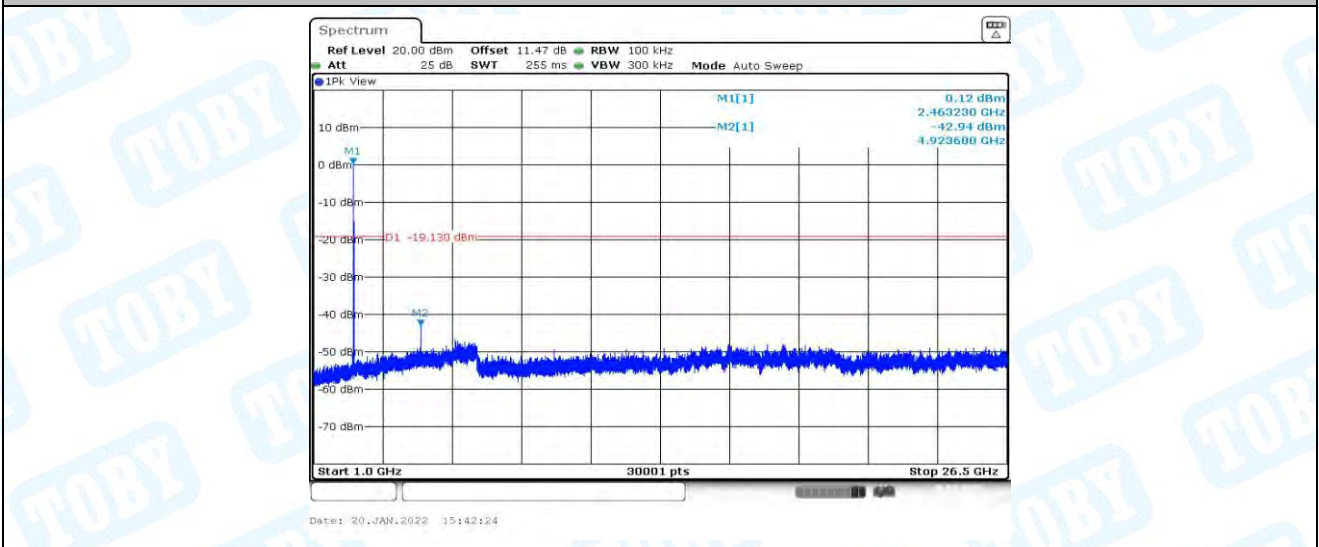
11B-CDD_Ant2_2437_1000~26500



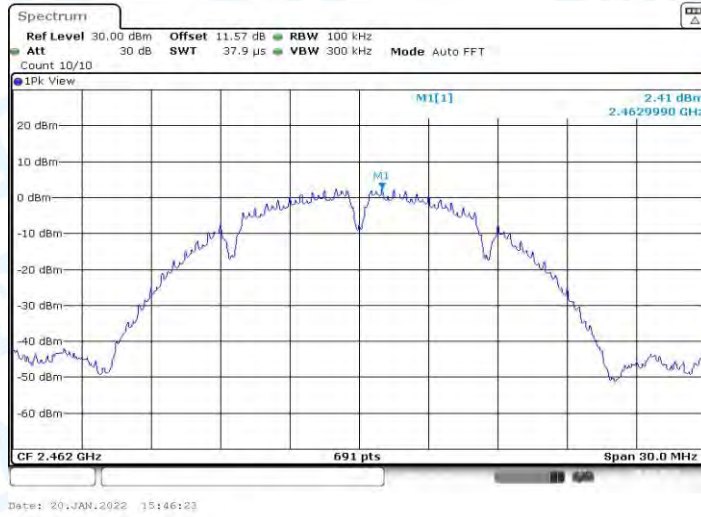
11B-CDD_Ant1_2462_0~Reference



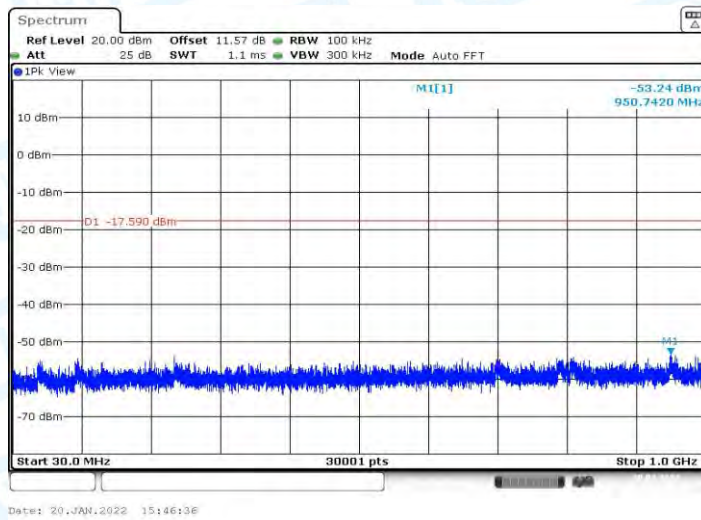
11B-CDD_Ant1_2462_30~1000



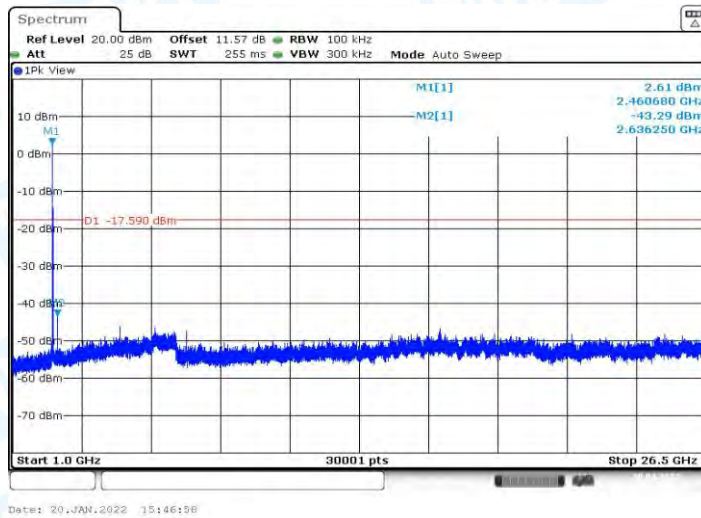
11B-CDD_Ant1_2462_1000~26500



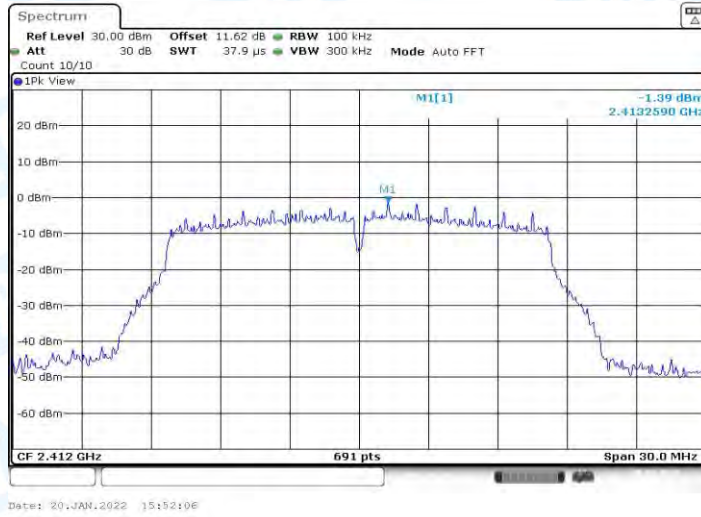
11B-CDD_Ant2_2462_0~Reference



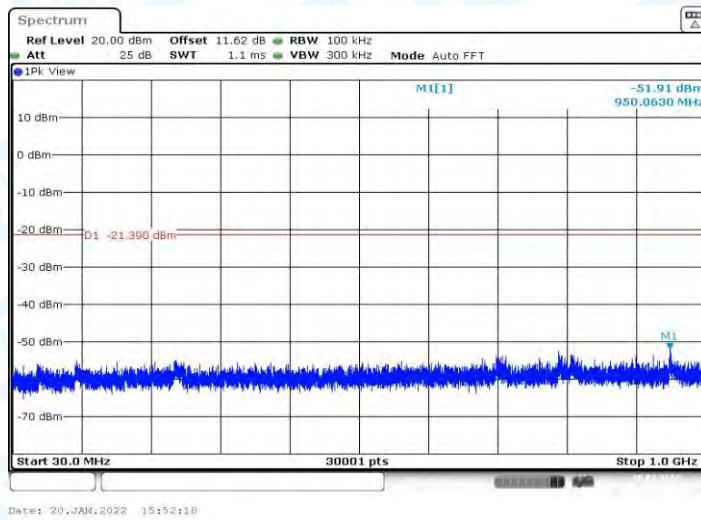
11B-CDD_Ant2_2462_30~1000



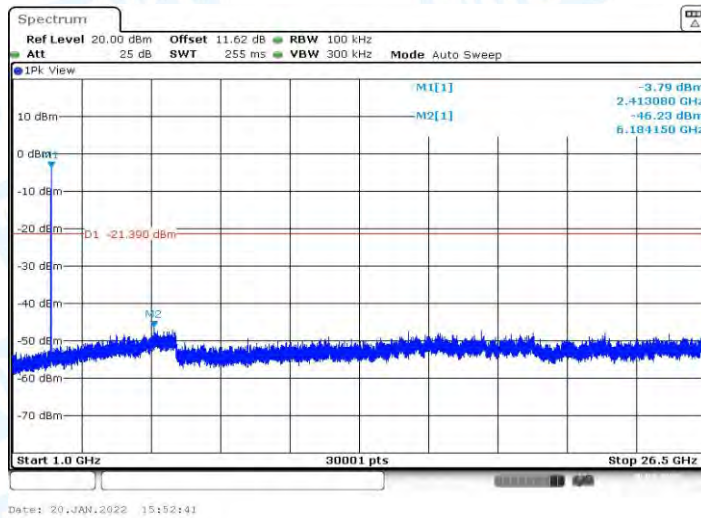
11B-CDD_Ant2_2462_1000~26500



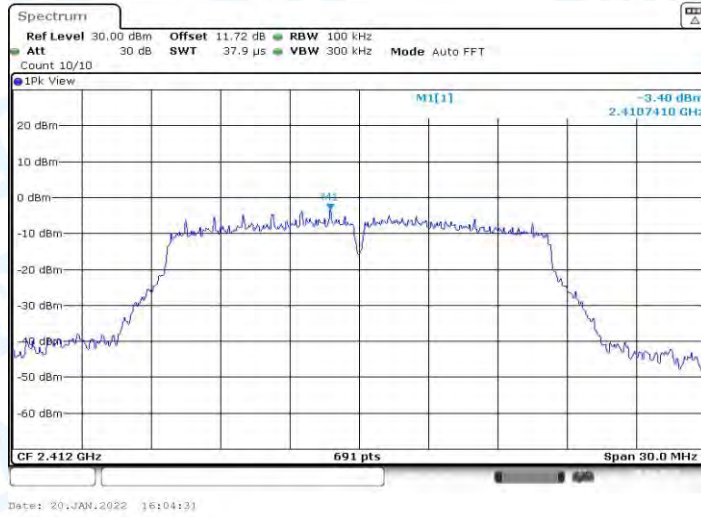
11G-CDD_Ant1_2412_0~Reference



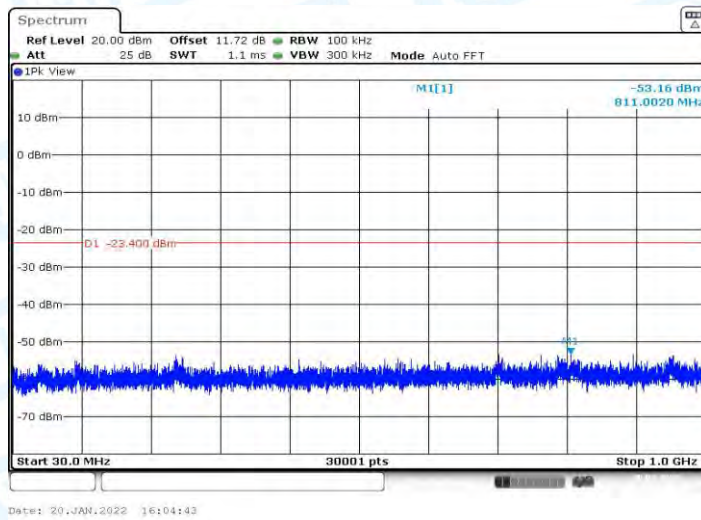
11G-CDD_Ant1_2412_30~1000



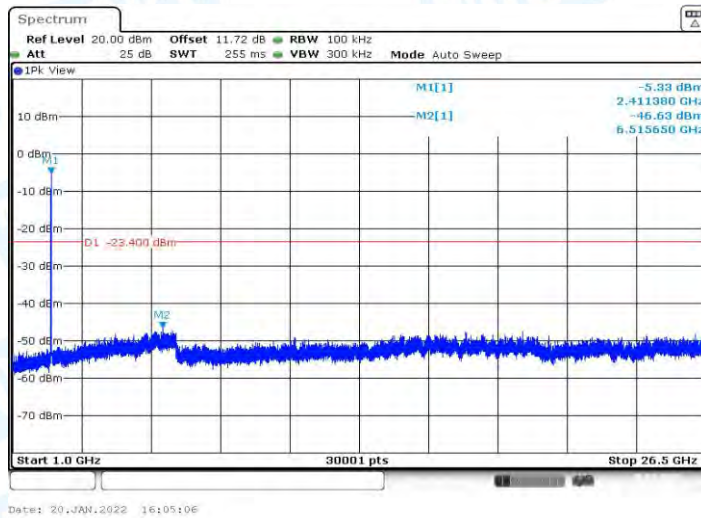
11G-CDD_Ant1_2412_1000~26500



11G-CDD_Ant2_2412_0~Reference



11G-CDD_Ant2_2412_30~1000



11G-CDD_Ant2_2412_1000~26500