

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

General Description of EUT	
Product Name:	AC Wireless Network Card
Test Model:	CF-813B
Sample ID:	20211223-01_03-02#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TB-FCC186040	

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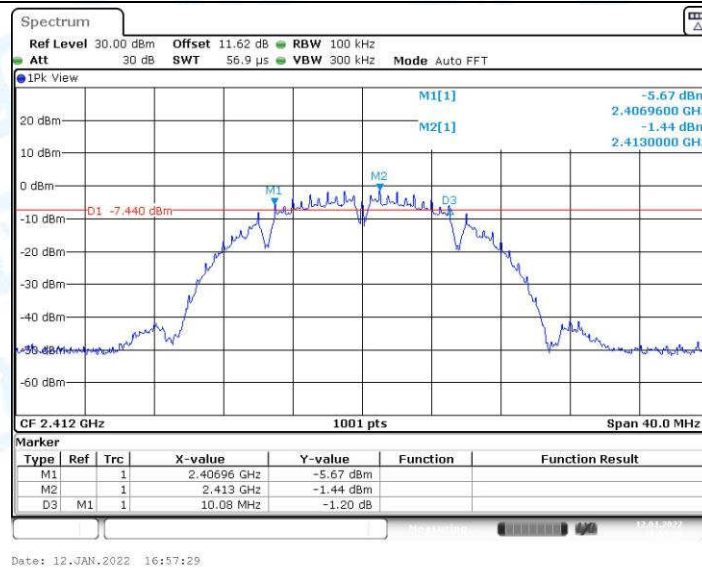
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1. DTS Bandwidth

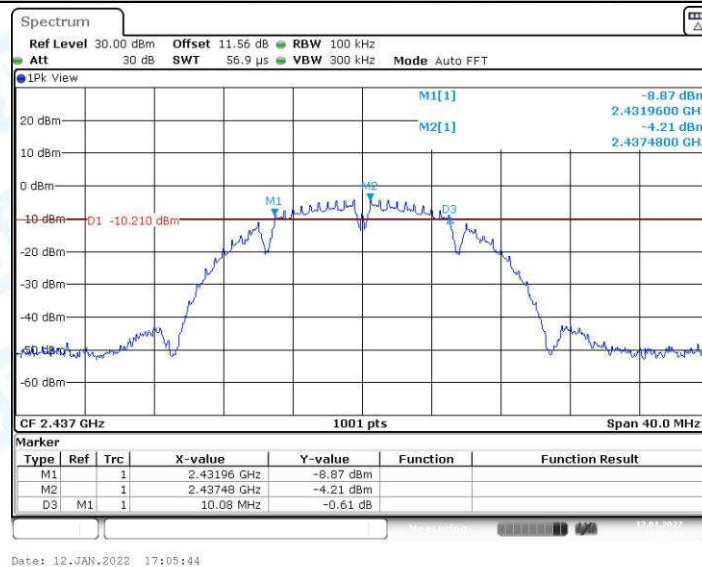
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
		2437	10.08	2431.96	2442.04	0.5	PASS
		2462	10.08	2456.96	2467.04	0.5	PASS
11G	Ant1	2412	16.36	2403.84	2420.20	0.5	PASS
		2437	16.36	2428.84	2445.20	0.5	PASS
		2462	16.36	2453.84	2470.20	0.5	PASS
11N20SISO	Ant1	2412	17.60	2403.20	2420.80	0.5	PASS
		2437	17.60	2428.20	2445.80	0.5	PASS
		2462	17.56	2453.24	2470.80	0.5	PASS
11N40SISO	Ant1	2422	35.28	2404.24	2439.52	0.5	PASS
		2437	35.04	2419.48	2454.52	0.5	PASS
		2452	35.28	2434.24	2469.52	0.5	PASS

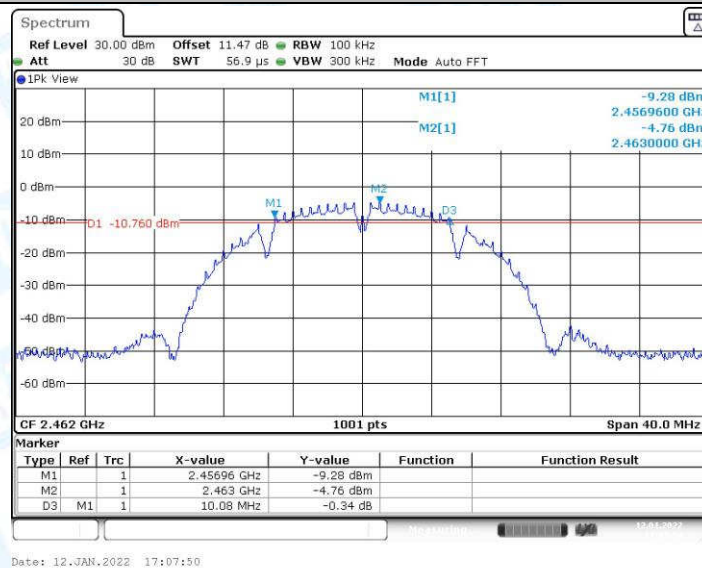
1.2. Test Graphs



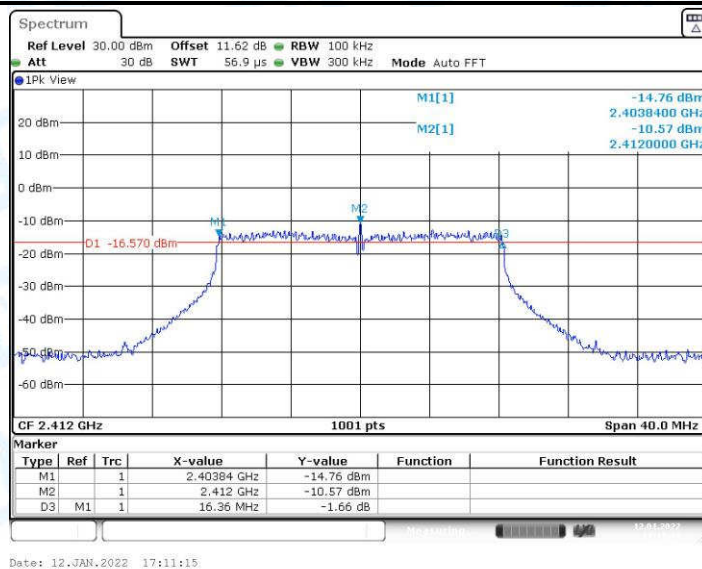
11B_Ant1_2412



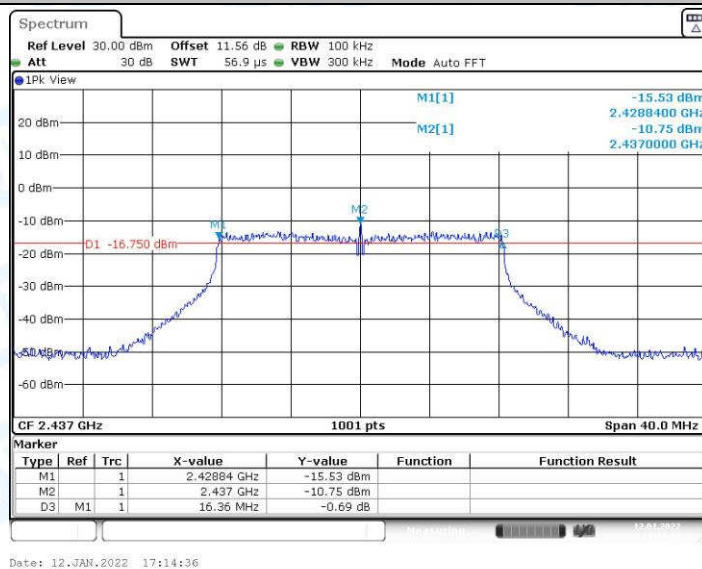
11B_Ant1_2437



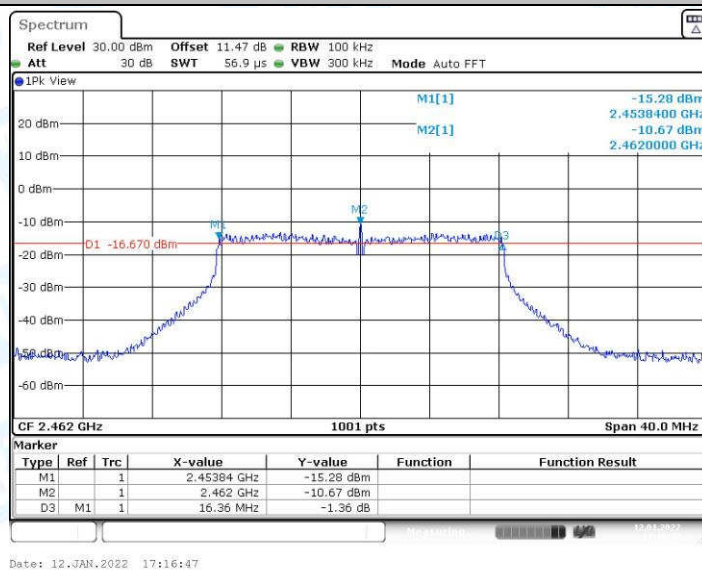
11B_Ant1_2462



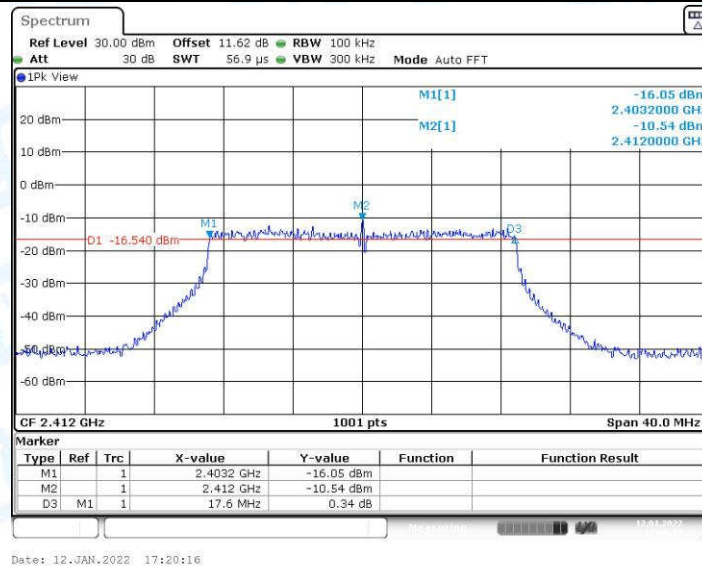
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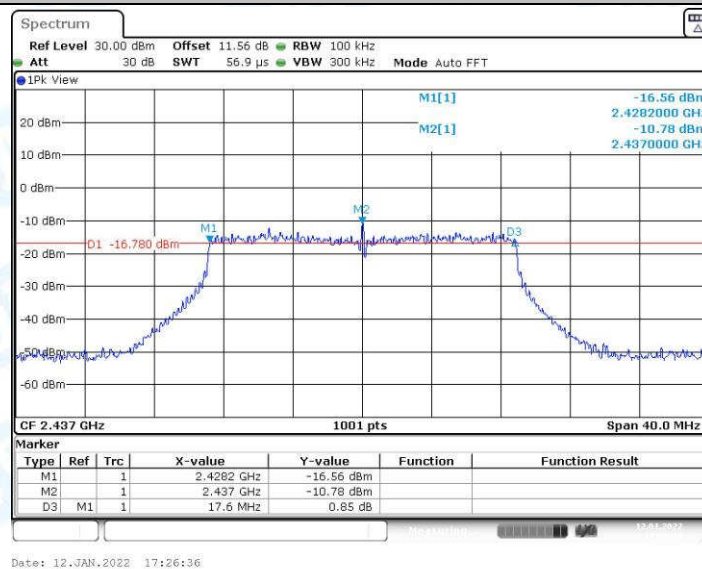
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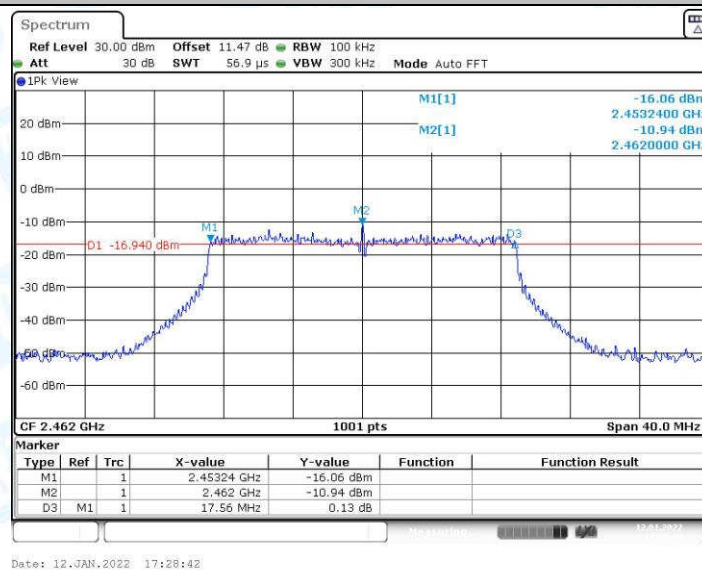
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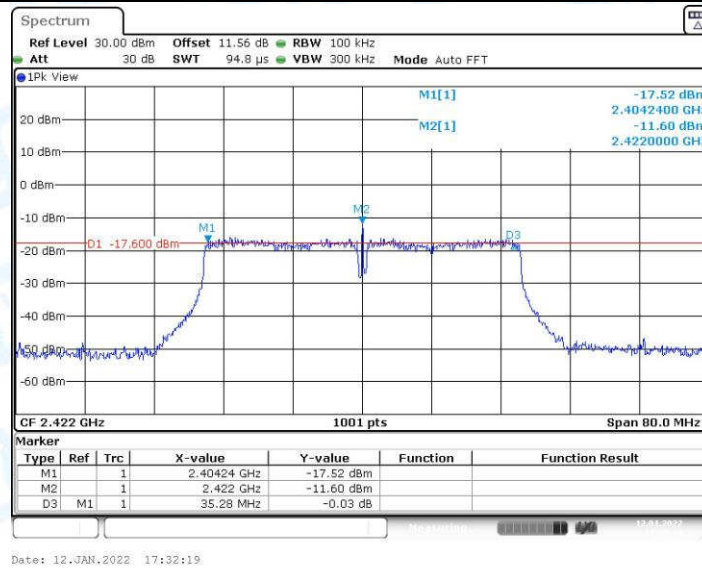
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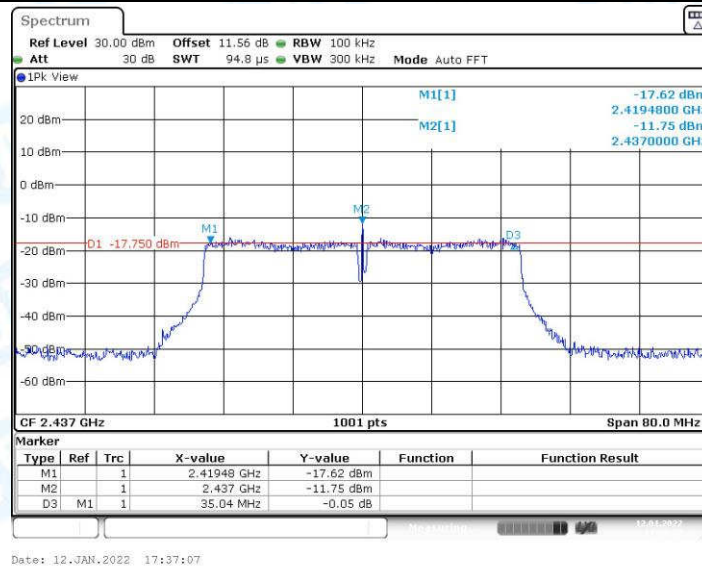
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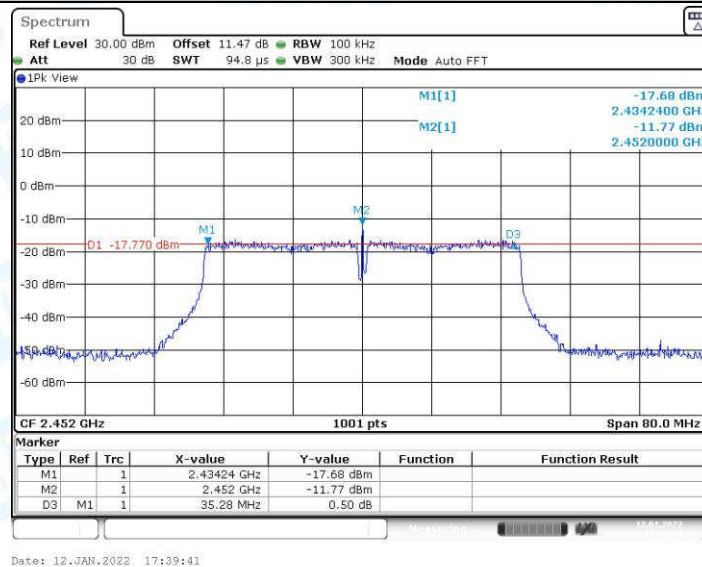
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



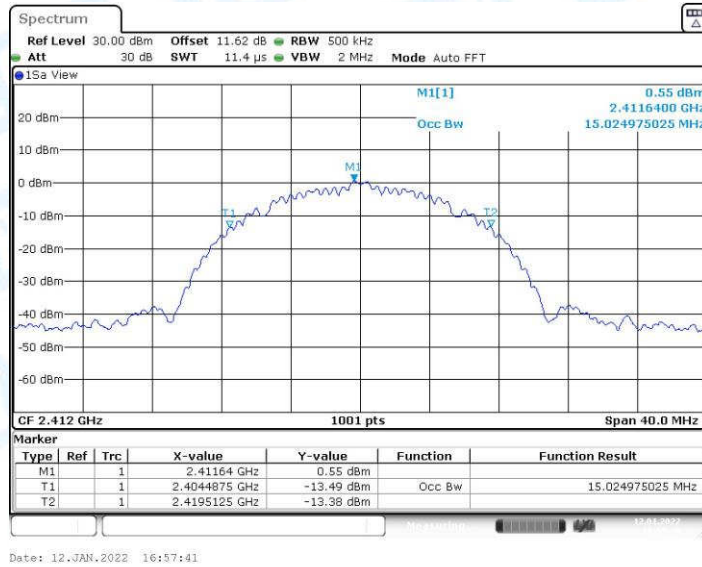
11N40SISO_Ant1_2452

2. Occupied Channel Bandwidth

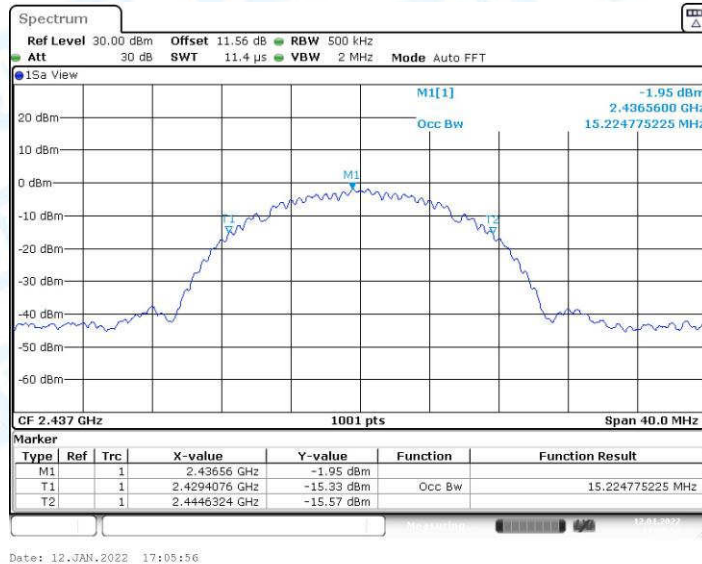
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.025	2404.488	2419.512	---	---
		2437	15.225	2429.408	2444.632	---	---
		2462	15.225	2454.408	2469.632	---	---
11G	Ant1	2412	17.502	2403.169	2420.671	---	---
		2437	17.463	2428.209	2445.671	---	---
		2462	17.702	2452.929	2470.631	---	---
11N20SISO	Ant1	2412	18.581	2402.649	2421.231	---	---
		2437	18.621	2427.609	2446.231	---	---
		2462	18.621	2452.609	2471.231	---	---
11N40SISO	Ant1	2422	37.323	2403.139	2440.462	---	---
		2437	37.403	2417.899	2455.302	---	---
		2452	37.403	2433.059	2470.462	---	---

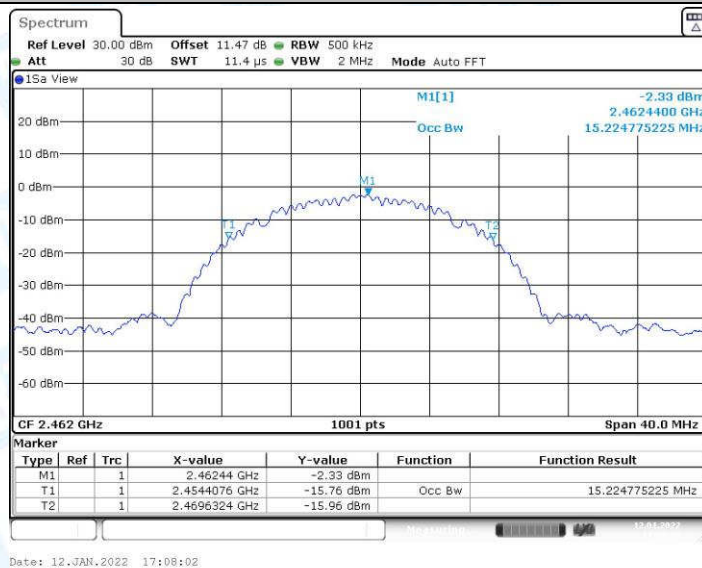
2.2. Test Graphs



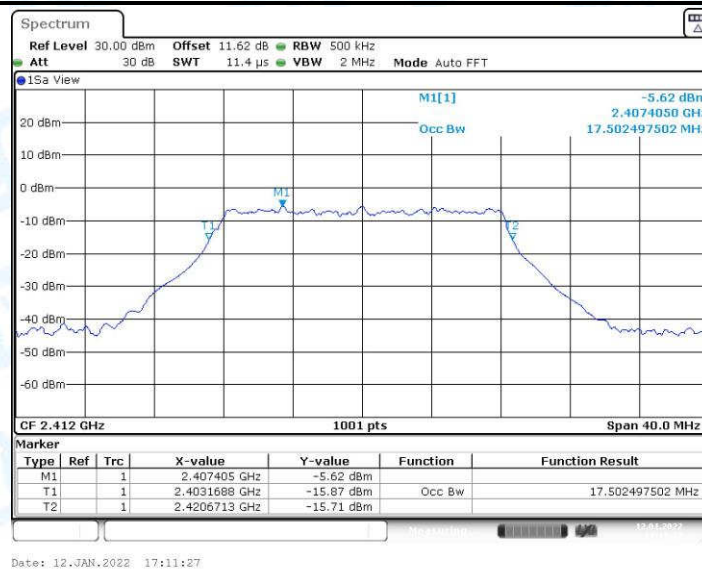
11B_Ant1_2412



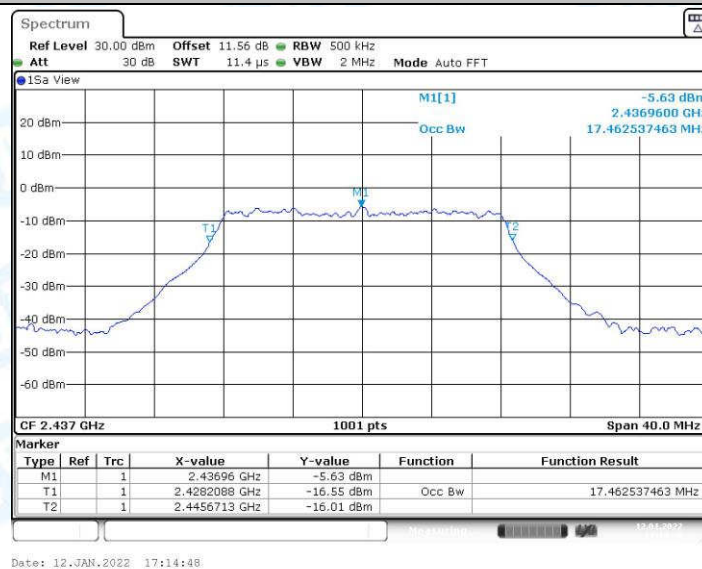
11B_Ant1_2437



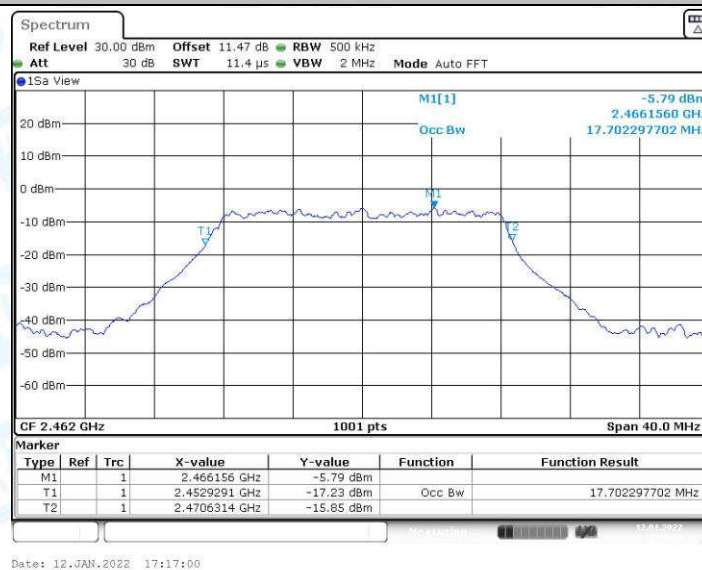
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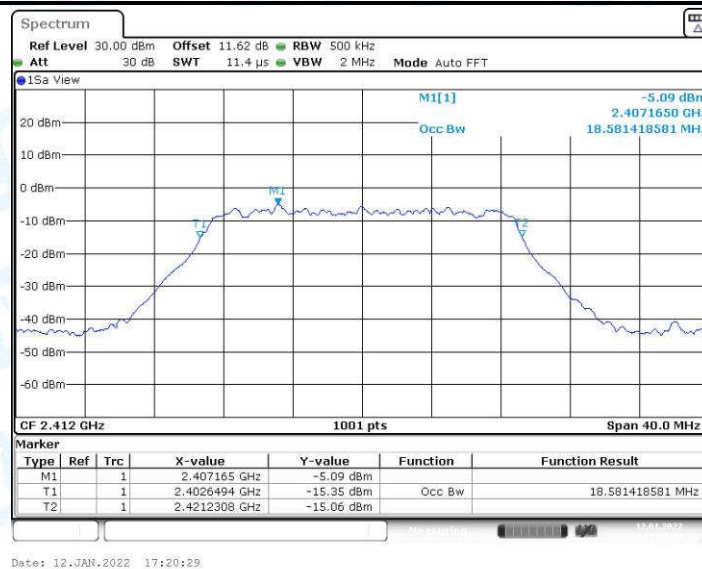
11G_Ant1_2412



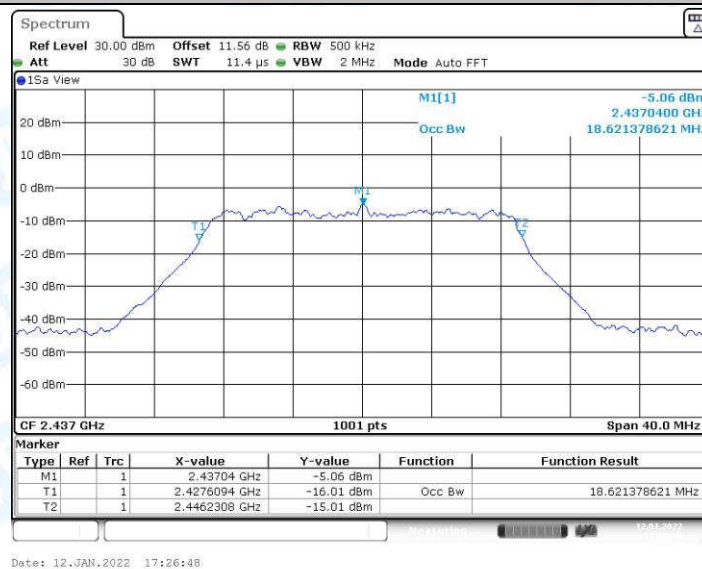
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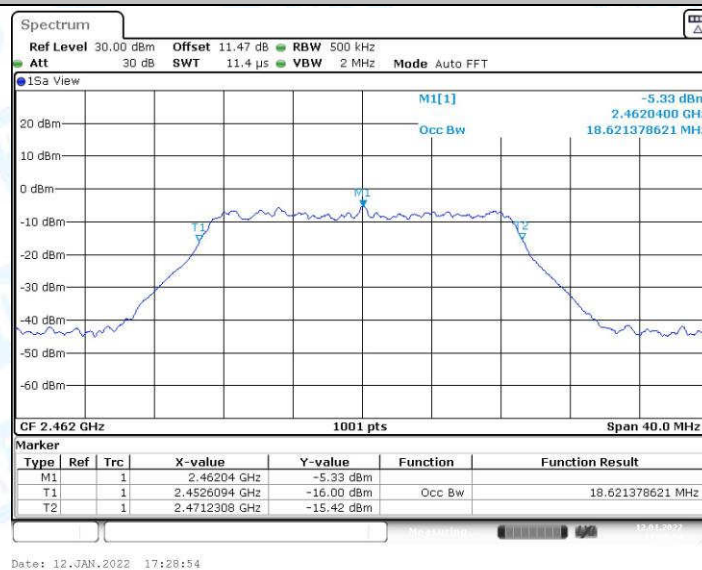
11G_Ant1_2462



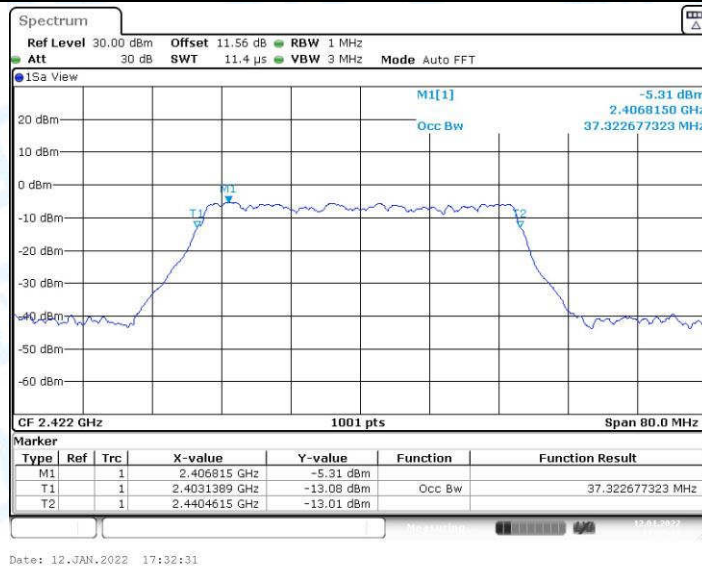
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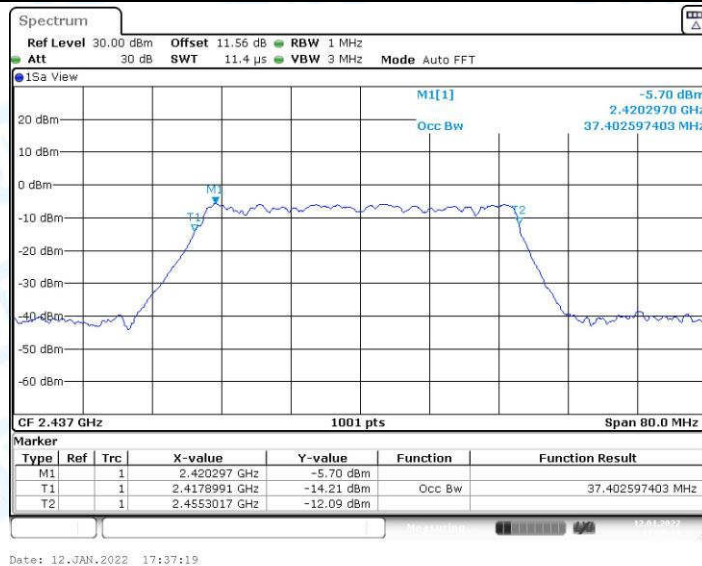
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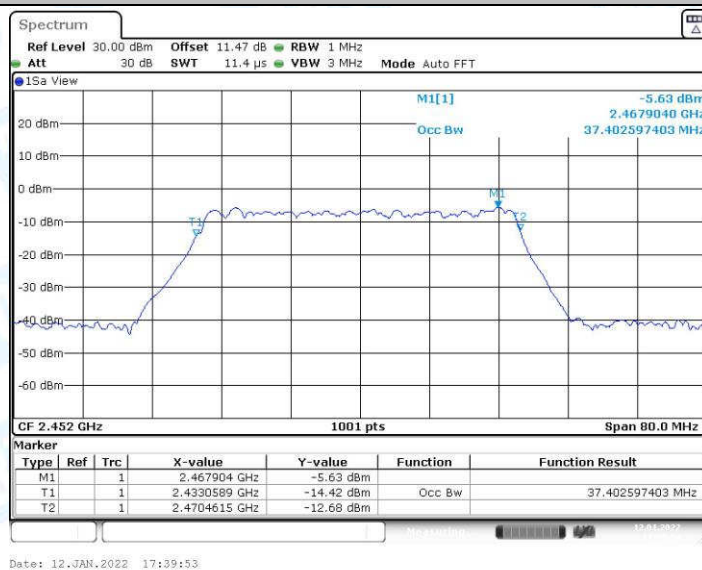
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

3. Maximum conducted output power

3.1. Test Result

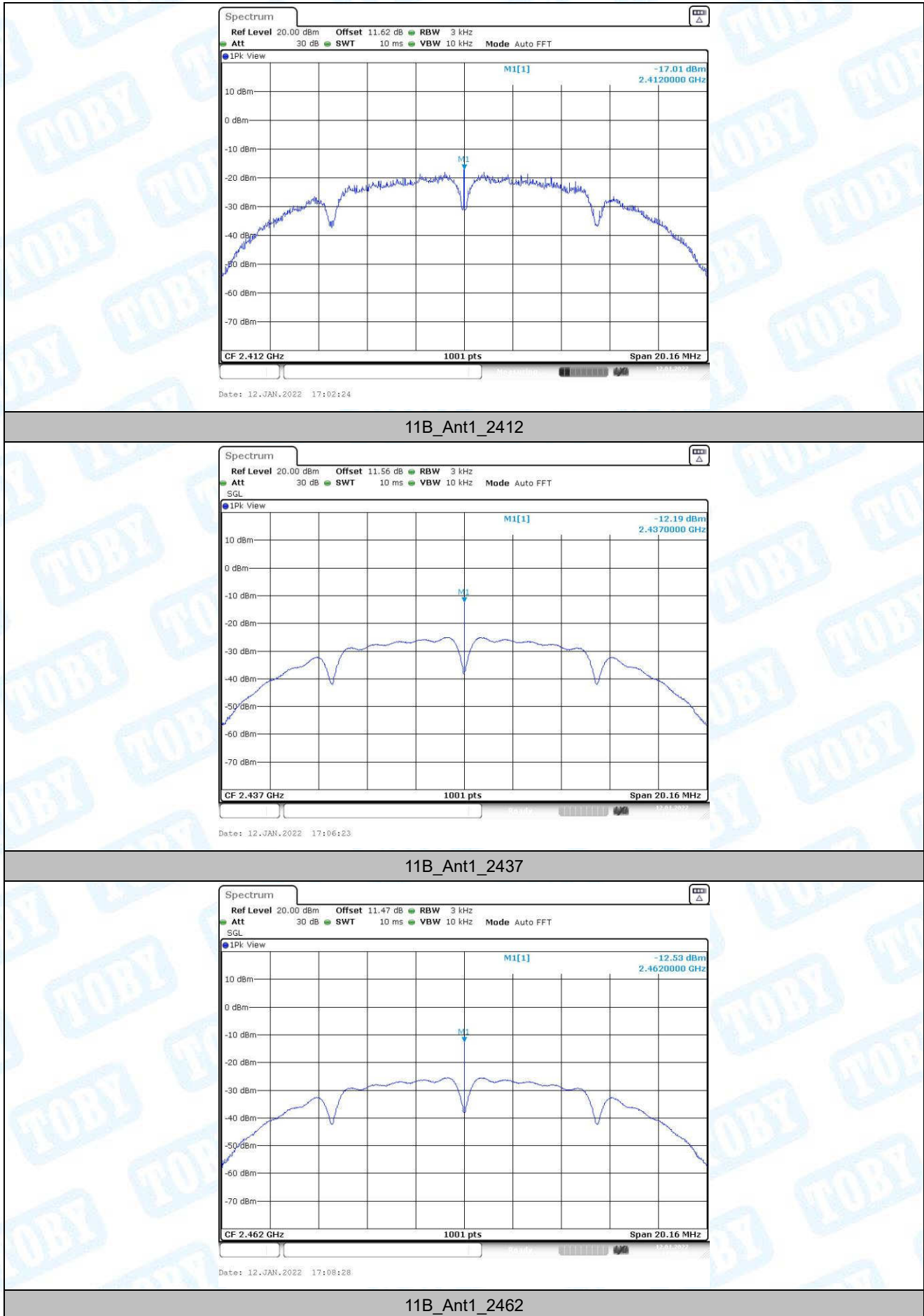
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	8.09	≤30.00	PASS
		2437	8.36	≤30.00	PASS
		2462	8.13	≤30.00	PASS
11G	Ant1	2412	8.25	≤30.00	PASS
		2437	7.88	≤30.00	PASS
		2462	7.77	≤30.00	PASS
11N20SISO	Ant1	2412	7.51	≤30.00	PASS
		2437	7.11	≤30.00	PASS
		2462	7.95	≤30.00	PASS
11N40SISO	Ant1	2422	7.22	≤30.00	PASS
		2437	7.15	≤30.00	PASS
		2452	7.03	≤30.00	PASS

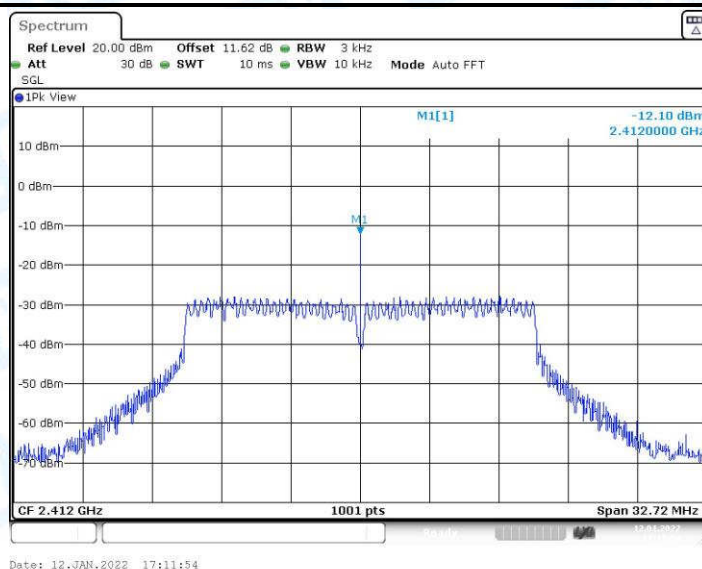
4. Maximum power spectral density

4.1. Test Result

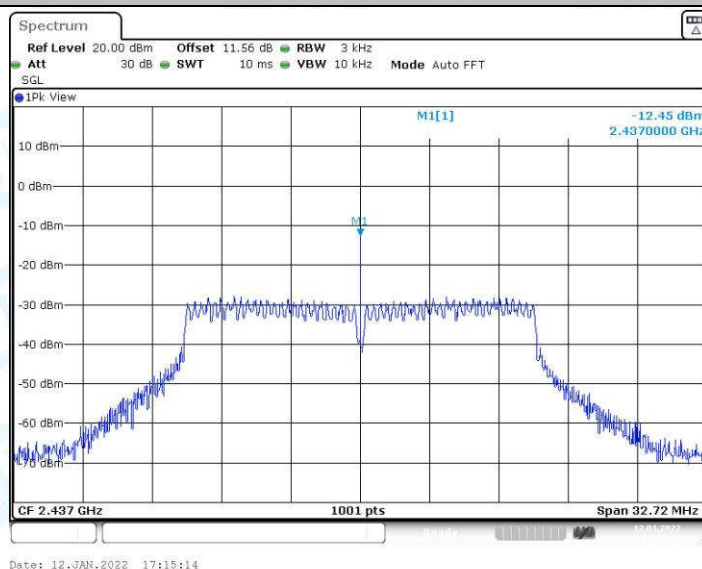
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.01	≤8.00	PASS
		2437	-12.19	≤8.00	PASS
		2462	-12.53	≤8.00	PASS
11G	Ant1	2412	-12.1	≤8.00	PASS
		2437	-12.45	≤8.00	PASS
		2462	-12.59	≤8.00	PASS
11N20SISO	Ant1	2412	-12.1	≤8.00	PASS
		2437	-12.46	≤8.00	PASS
		2462	-12.59	≤8.00	PASS
11N40SISO	Ant1	2422	-12.38	≤8.00	PASS
		2437	-12.51	≤8.00	PASS
		2452	-12.46	≤8.00	PASS

4.2. Test Graphs

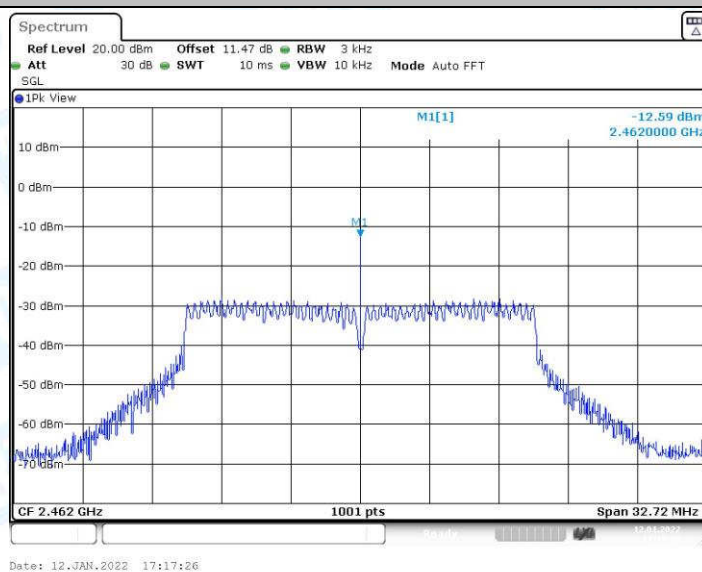




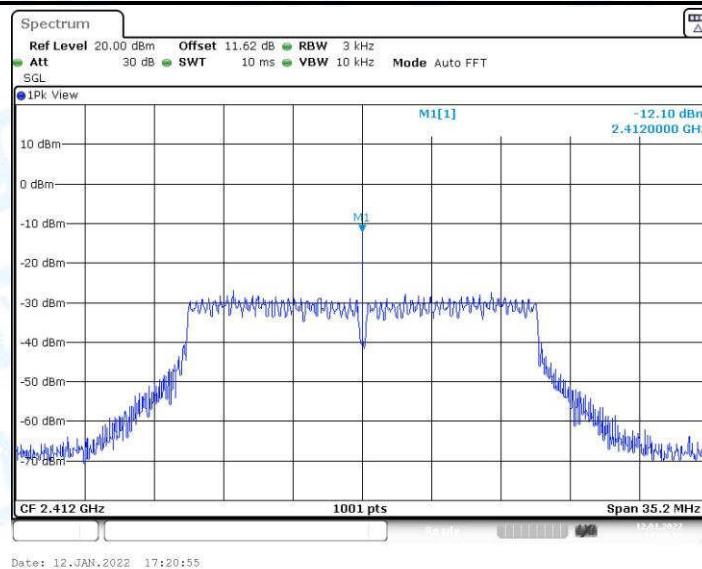
11G_Ant1_2412



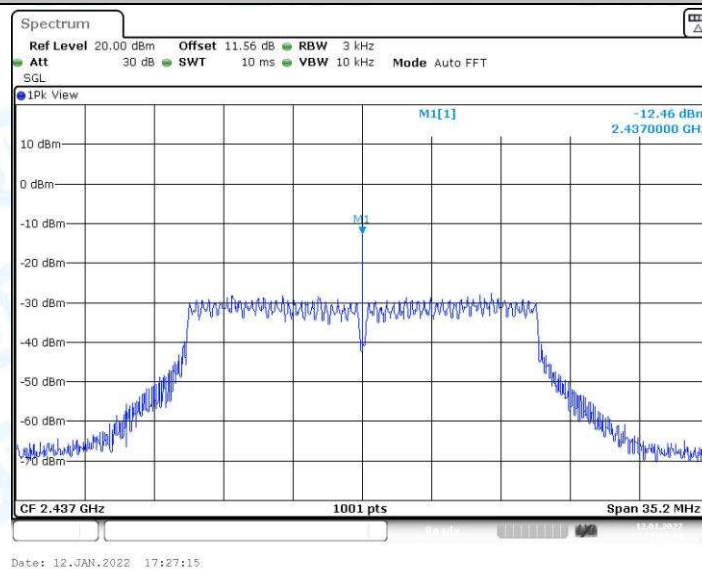
11G_Ant1_2437



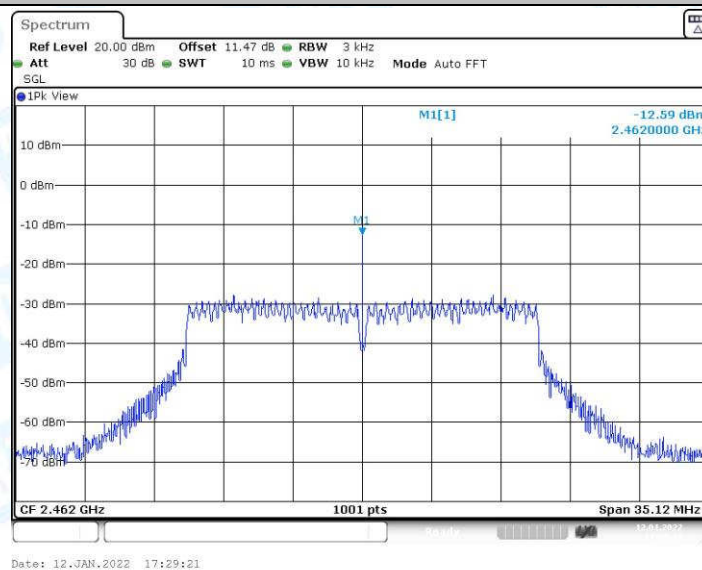
11G_Ant1_2462



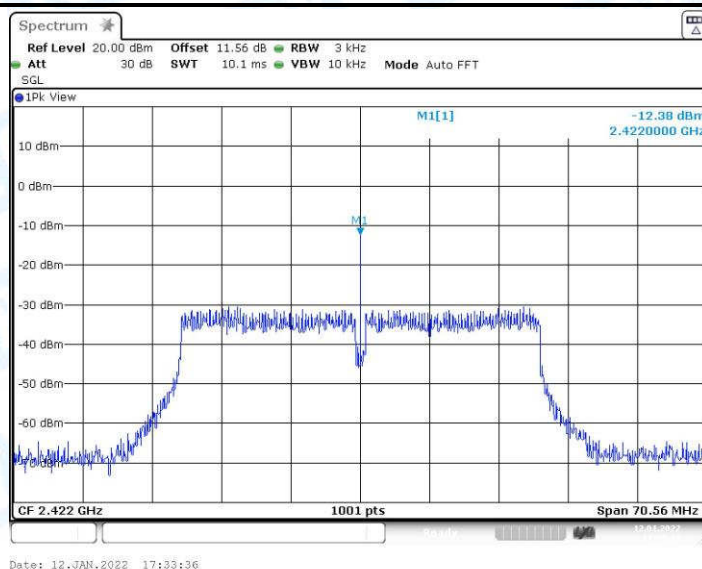
11N20SISO_Ant1_2412



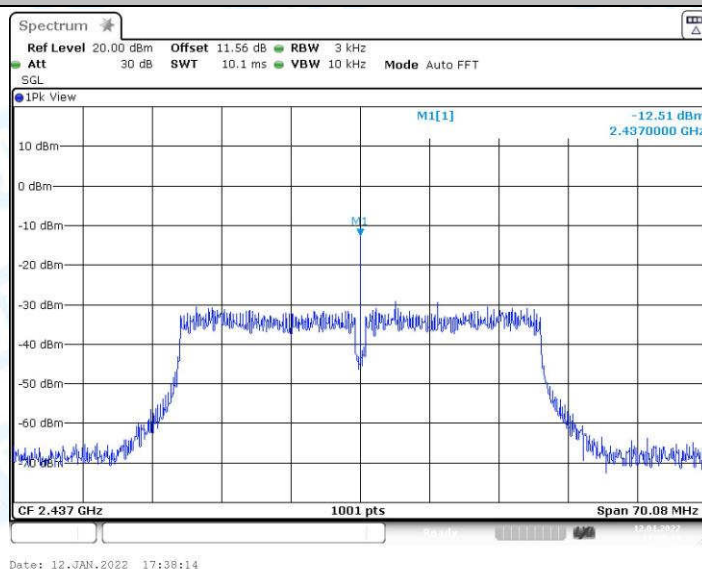
11N20SISO_Ant1_2437



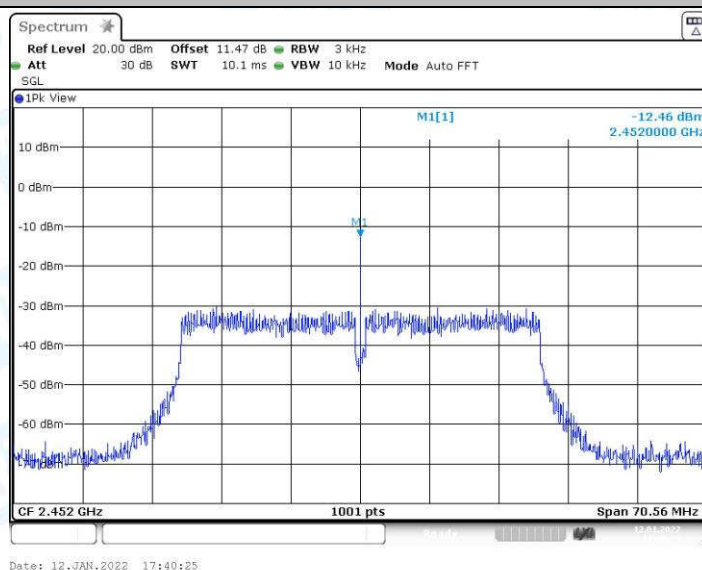
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



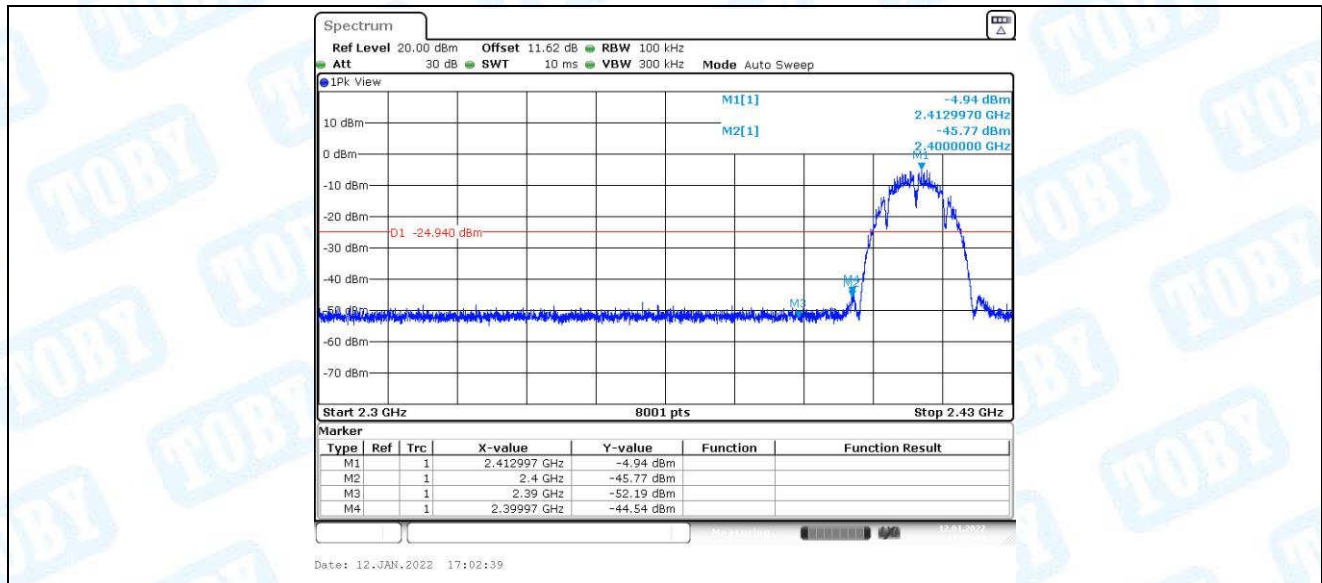
11N40SISO_Ant1_2452

5. Band edge measurements

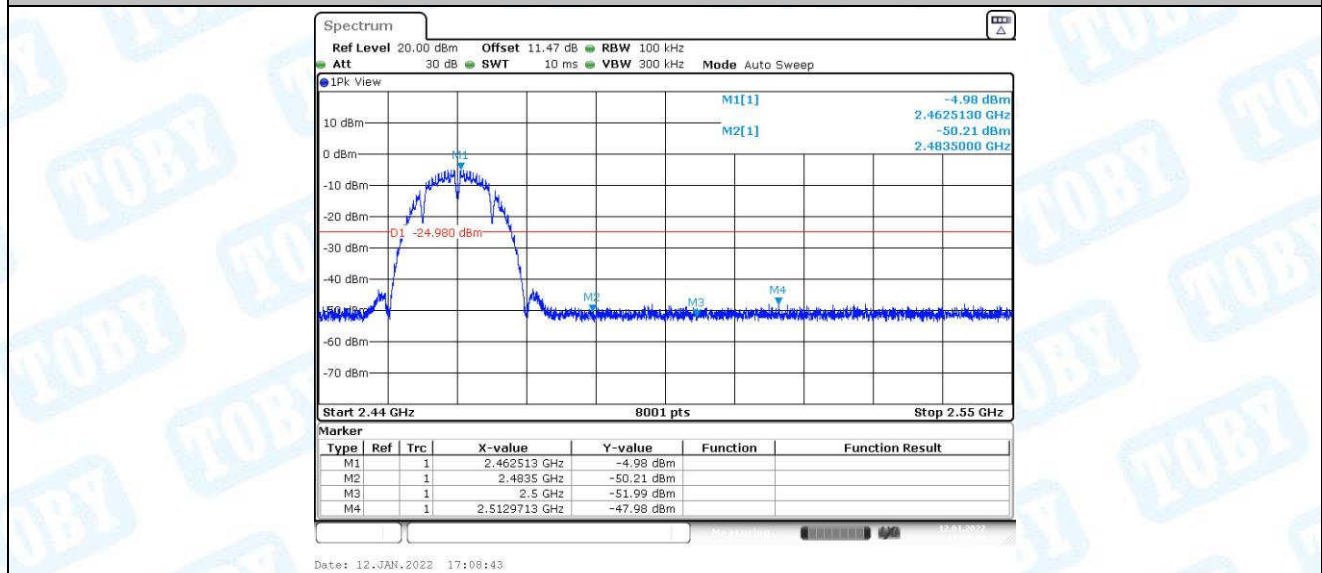
5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.94	-44.54	≤ -24.94	PASS
		High	2462	-4.98	-47.98	≤ -24.98	PASS
11G	Ant1	Low	2412	-10.50	-44.21	≤ -30.5	PASS
		High	2462	-10.70	-47.71	≤ -30.7	PASS
11N20SISO	Ant1	Low	2412	-10.54	-42.24	≤ -30.54	PASS
		High	2462	-11.11	-47.07	≤ -31.11	PASS
11N40SISO	Ant1	Low	2422	-11.61	-44.9	≤ -31.61	PASS
		High	2452	-11.74	-46.15	≤ -31.74	PASS

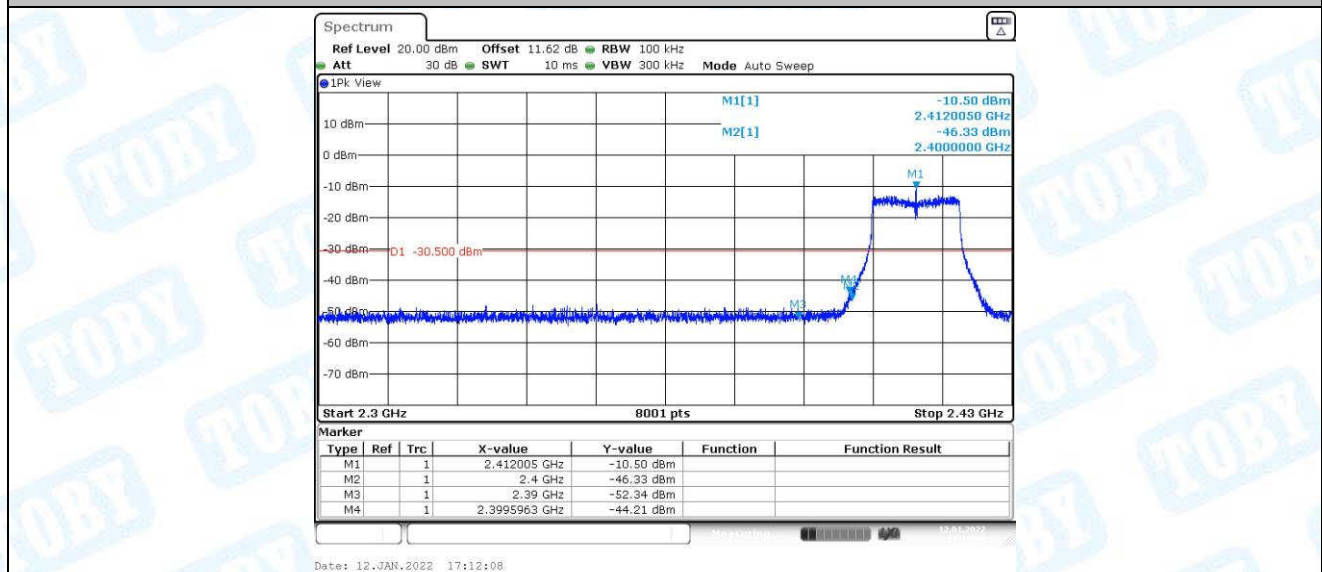
5.2. Test Graphs



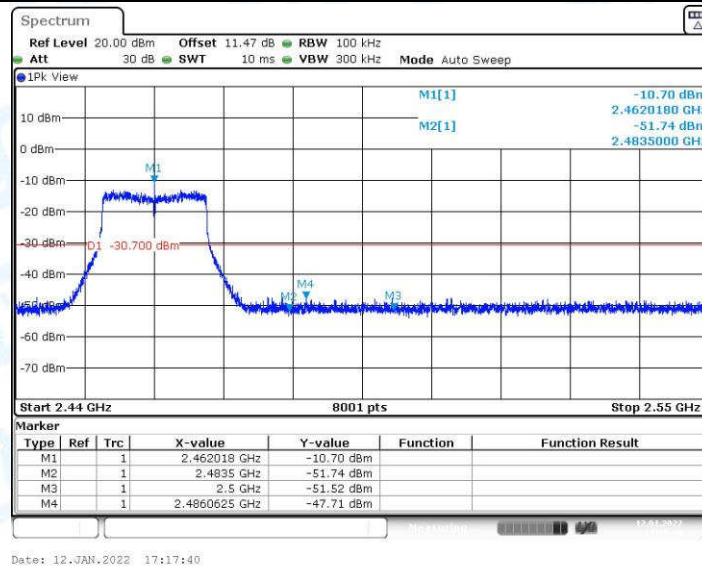
11B_Ant1_Low_2412



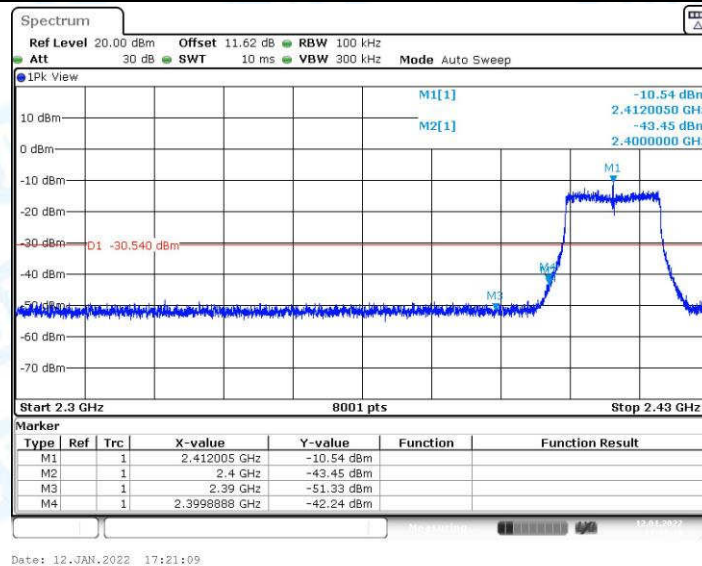
11B_Ant1_High_2462



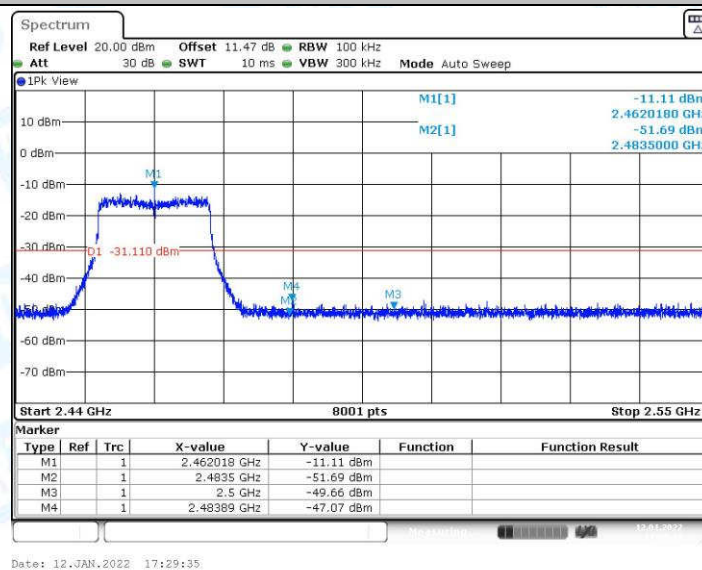
11G_Ant1_Low_2412



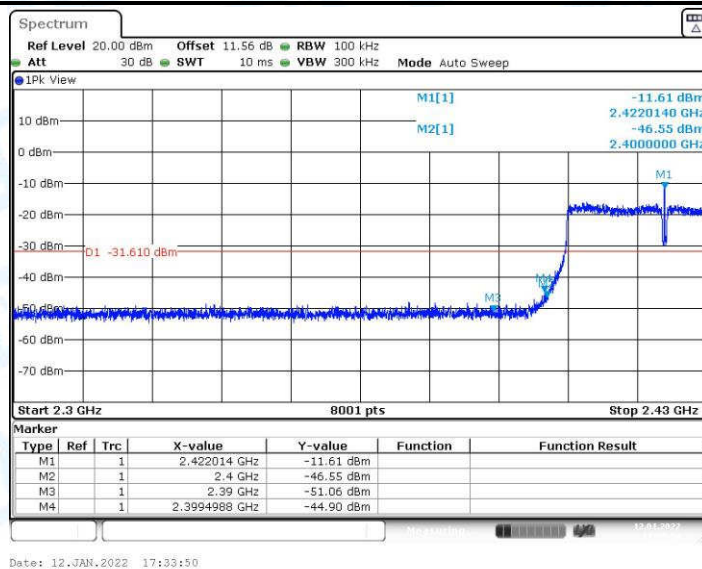
11G_Ant1_High_2462



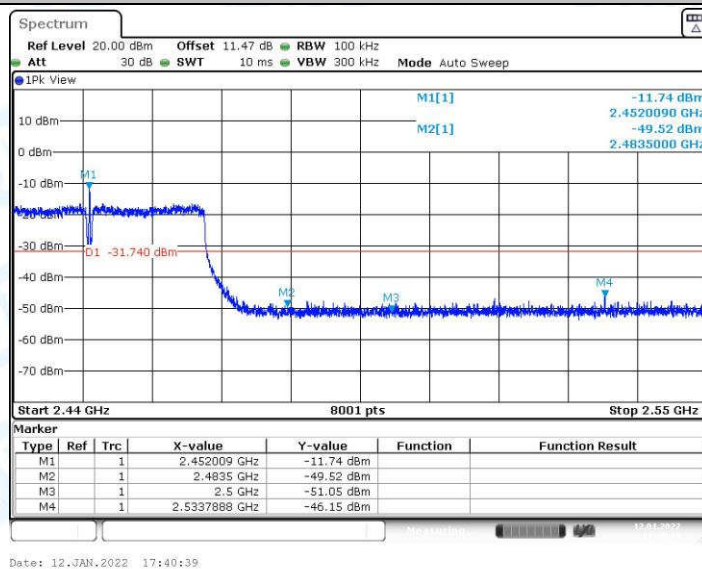
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



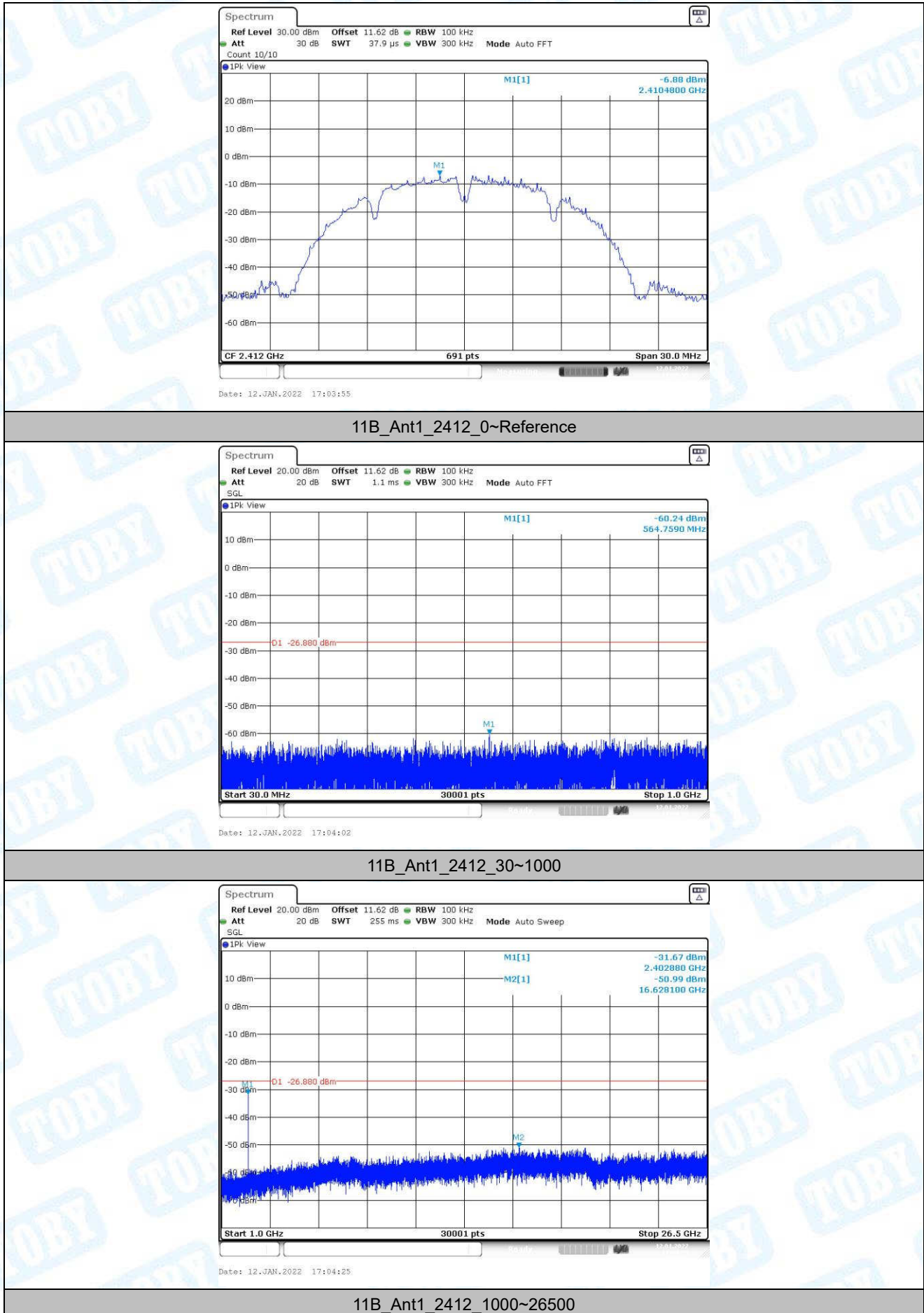
11N40SISO_Ant1_High_2452

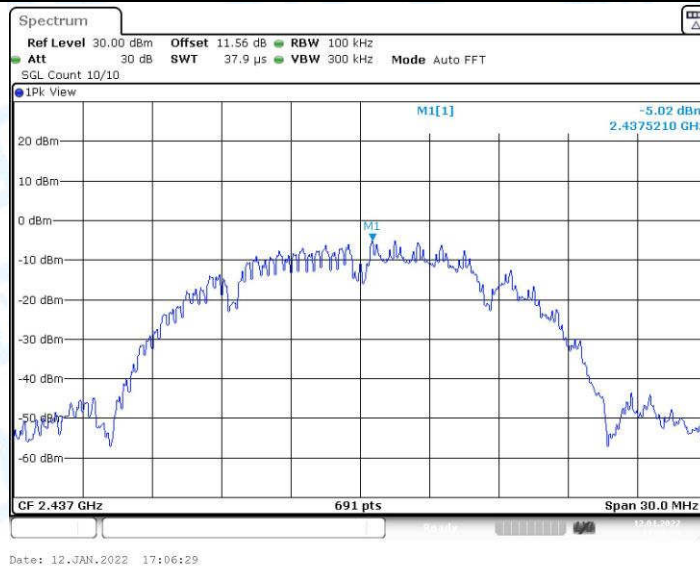
6. Conducted Spurious Emission

6.1. Test Result

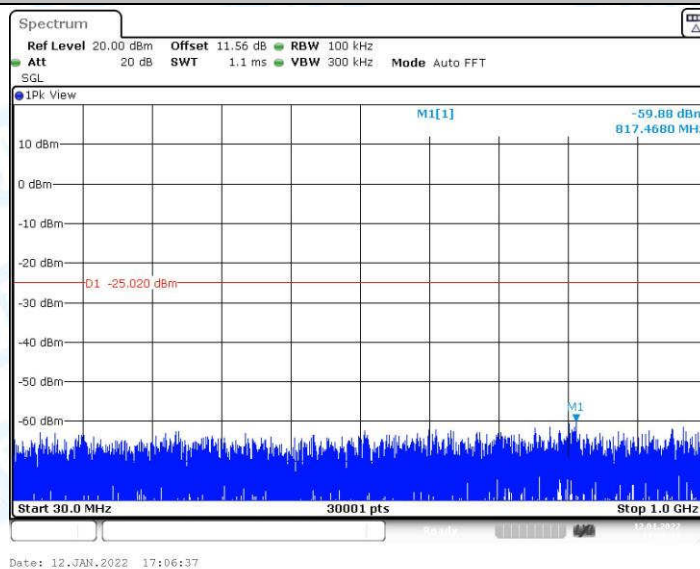
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.88	-6.88	---	PASS
			30~1000	-6.88	-60.24	≤-26.88	PASS
			1000~26500	-6.88	-50.99	≤-26.88	PASS
		2437	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-59.88	≤-25.02	PASS
			1000~26500	-5.02	-49.59	≤-25.02	PASS
		2462	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-58.82	≤-25.37	PASS
			1000~26500	-5.37	-50.21	≤-25.37	PASS
11G	Ant1	2412	Reference	-11.03	-11.03	---	PASS
			30~1000	-11.03	-59.27	≤-31.03	PASS
			1000~26500	-11.03	-50.22	≤-31.03	PASS
		2437	Reference	-11.71	-11.71	---	PASS
			30~1000	-11.71	-59.48	≤-31.71	PASS
			1000~26500	-11.71	-50.86	≤-31.71	PASS
		2462	Reference	-11.81	-11.81	---	PASS
			30~1000	-11.81	-59.82	≤-31.81	PASS
			1000~26500	-11.81	-51.07	≤-31.81	PASS
11N20SISO	Ant1	2412	Reference	-11.57	-11.57	---	PASS
			30~1000	-11.57	-60.51	≤-31.57	PASS
			1000~26500	-11.57	-50.22	≤-31.57	PASS
		2437	Reference	-12.00	-12.00	---	PASS
			30~1000	-12.00	-61.55	≤-32	PASS
			1000~26500	-12.00	-49.45	≤-32	PASS
		2462	Reference	-12.29	-12.29	---	PASS
			30~1000	-12.29	-60.24	≤-32.29	PASS
			1000~26500	-12.29	-50.02	≤-32.29	PASS
11N40SISO	Ant1	2422	Reference	-11.96	-11.96	---	PASS
			30~1000	-11.96	-60.39	≤-31.96	PASS
			1000~26500	-11.96	-50.75	≤-31.96	PASS
		2437	Reference	-12.08	-12.08	---	PASS
			30~1000	-12.08	-59.68	≤-32.08	PASS
			1000~26500	-12.08	-50.23	≤-32.08	PASS
		2452	Reference	-12.27	-12.27	---	PASS
			30~1000	-12.27	-59.63	≤-32.27	PASS
			1000~26500	-12.27	-50.45	≤-32.27	PASS

6.2. Test Graphs

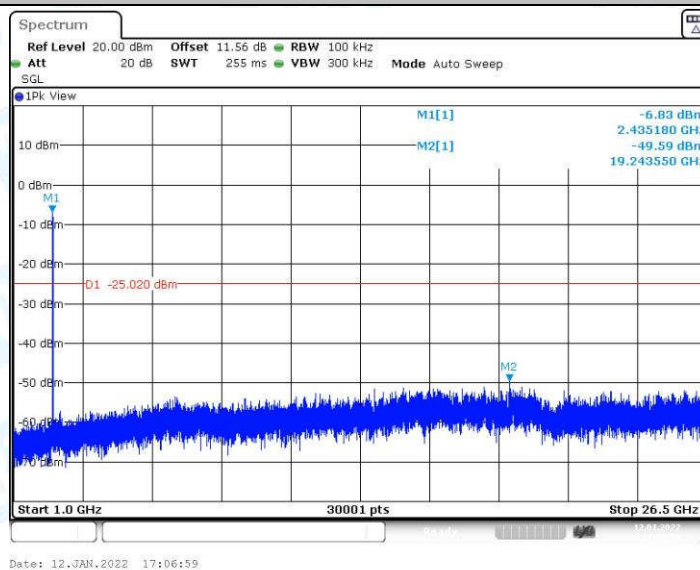




11B_Ant1_2437_0~Reference



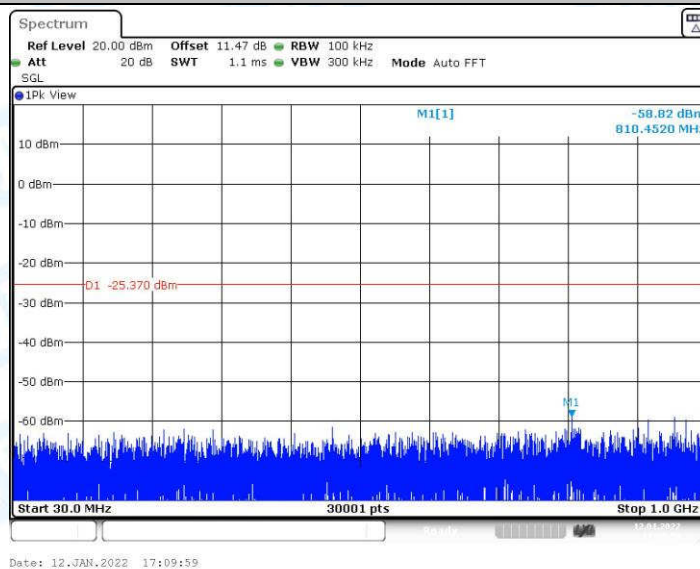
11B_Ant1_2437_30~1000



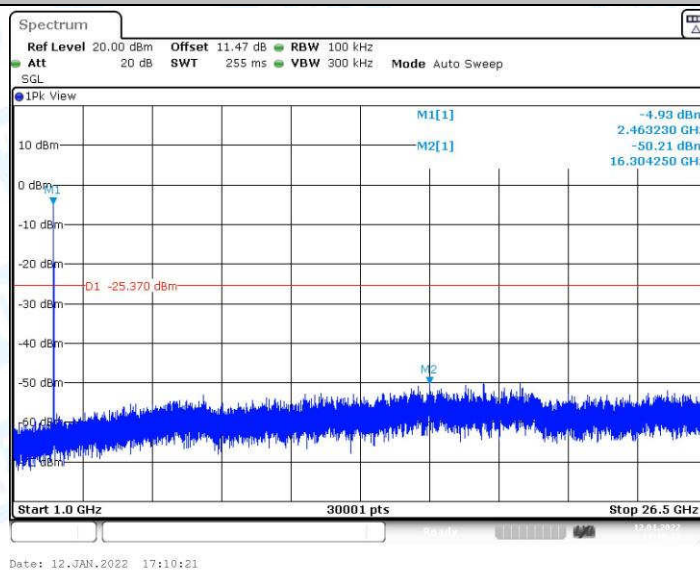
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500