

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

General Description of EUT	
Product Name:	Battery Camera
Test Model:	BK23-W
Sample ID:	RW-C-202202-0074-5-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202202-0074-8	

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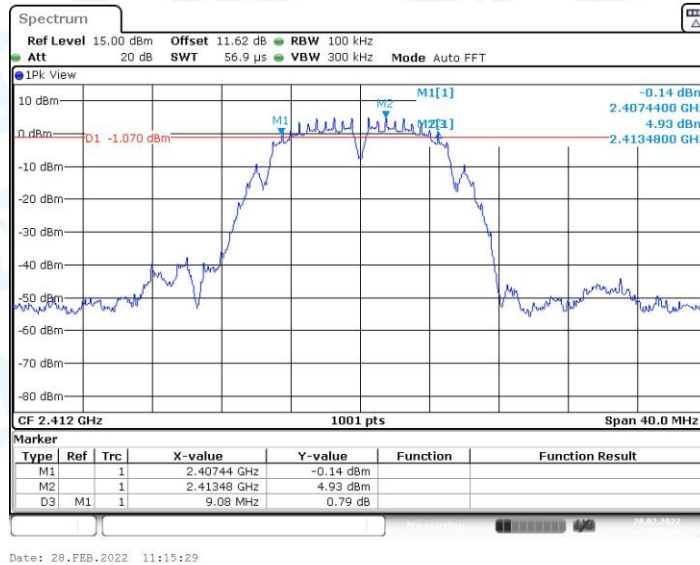
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1. DTS Bandwidth

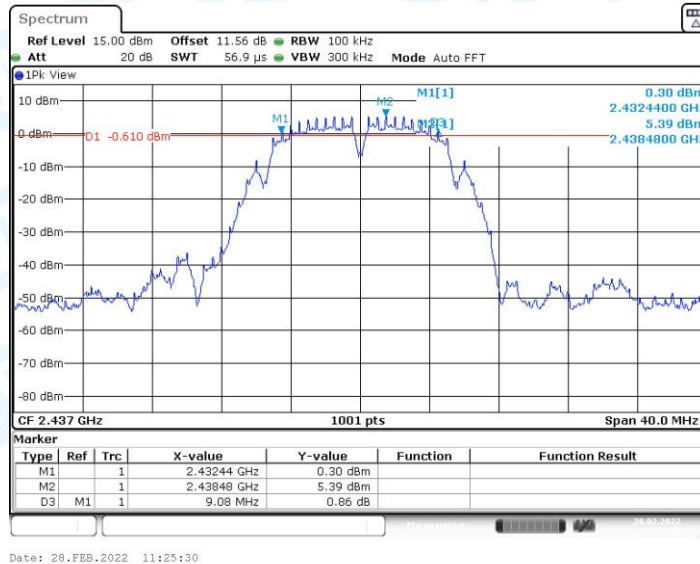
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.08	2407.44	2416.52	0.5	PASS
		2437	9.08	2432.44	2441.52	0.5	PASS
		2462	9.08	2457.44	2466.52	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
		2437	16.36	2428.80	2445.16	0.5	PASS
		2462	16.40	2453.80	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	17.60	2453.20	2470.80	0.5	PASS

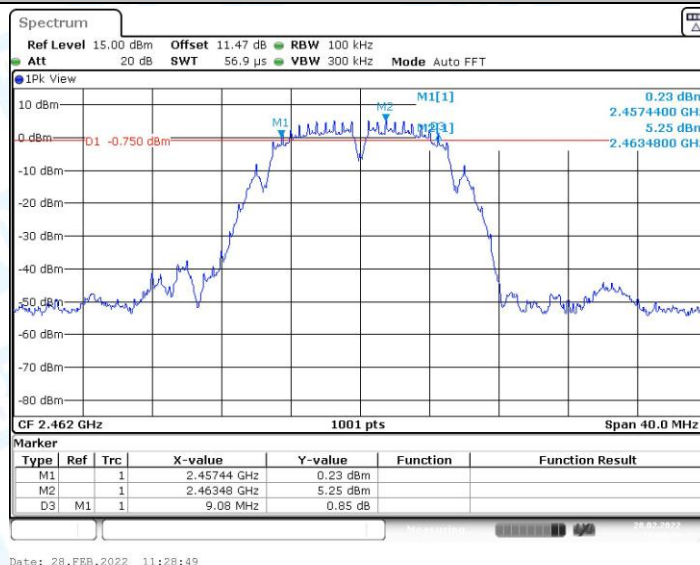
1.2. Test Graphs



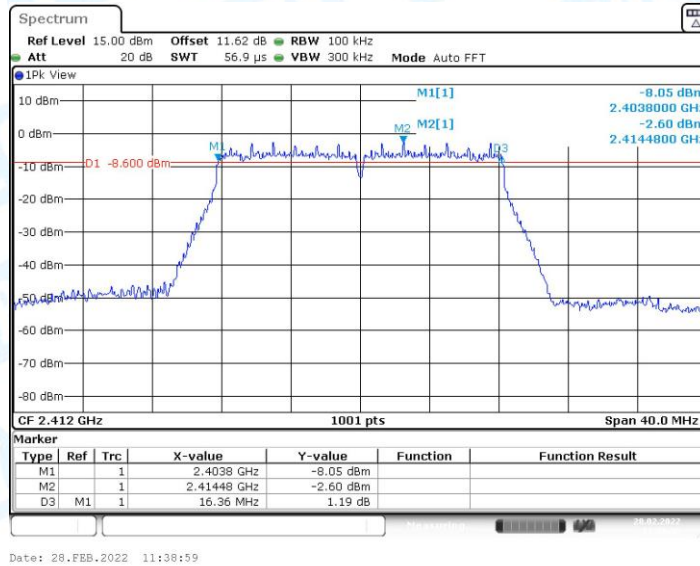
11B_Ant1_2412



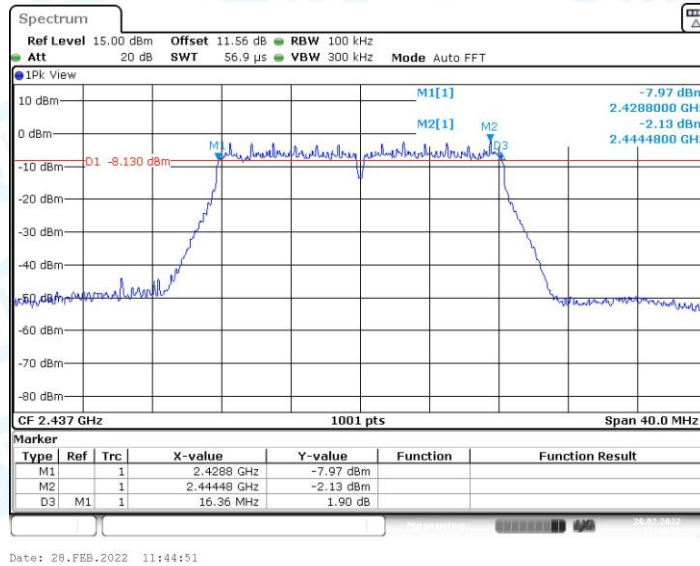
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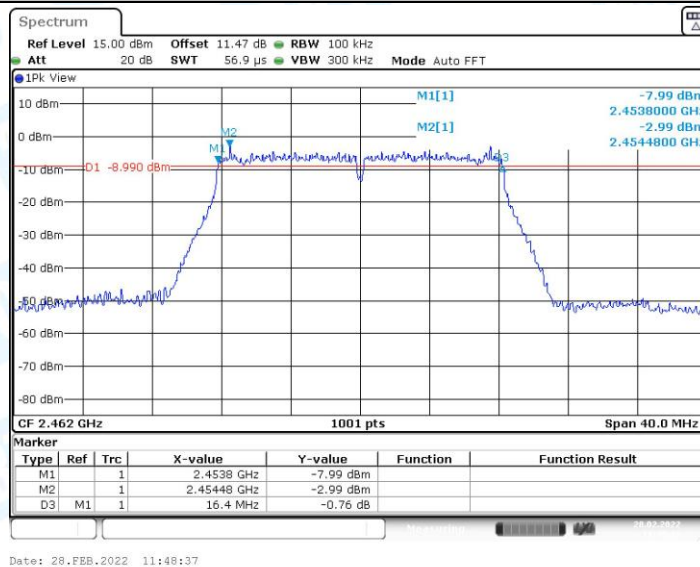
11B_Ant1_2462



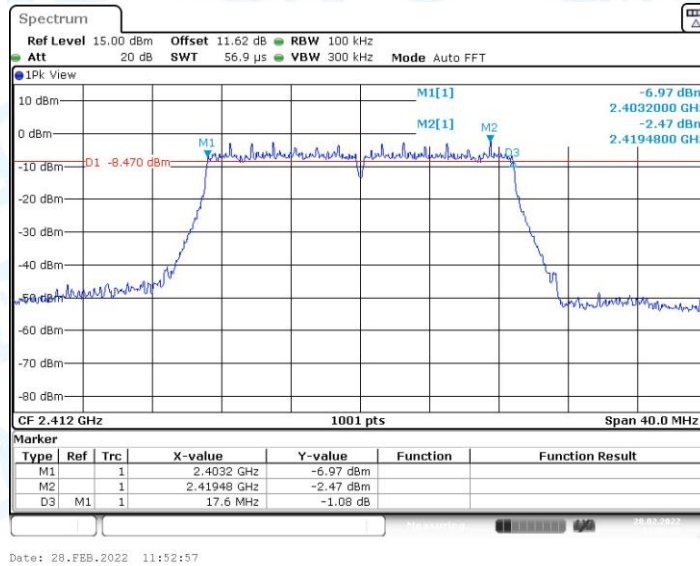
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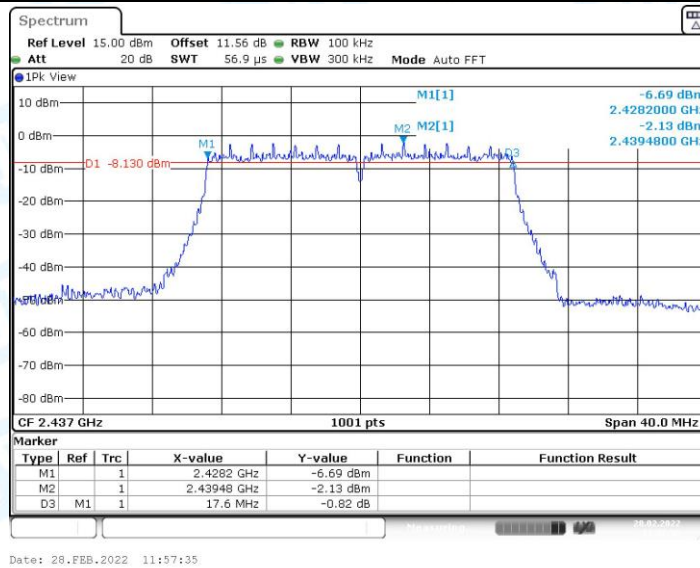
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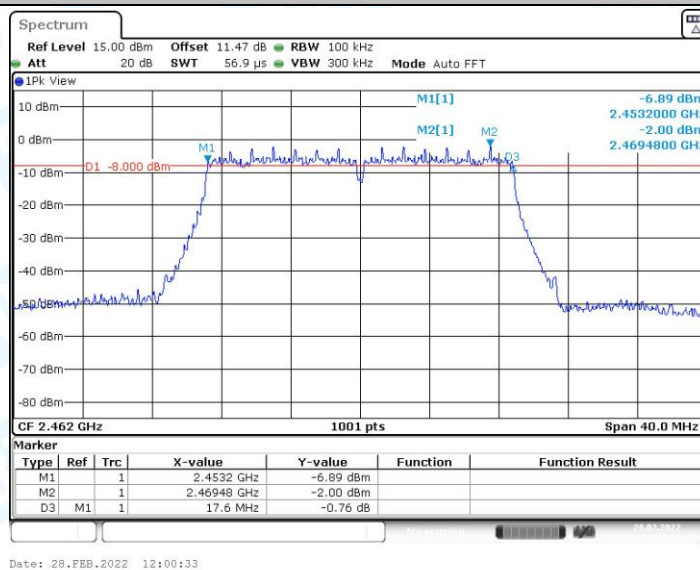
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11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



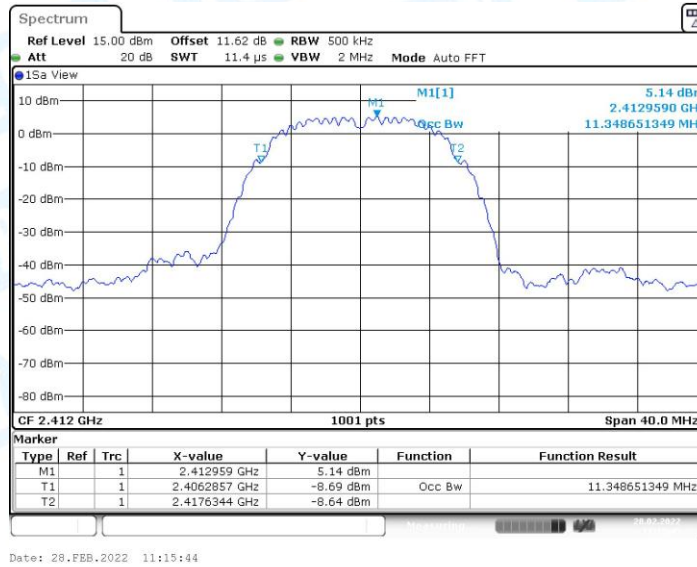
11N20SISO_Ant1_2462

2. Occupied Channel Bandwidth

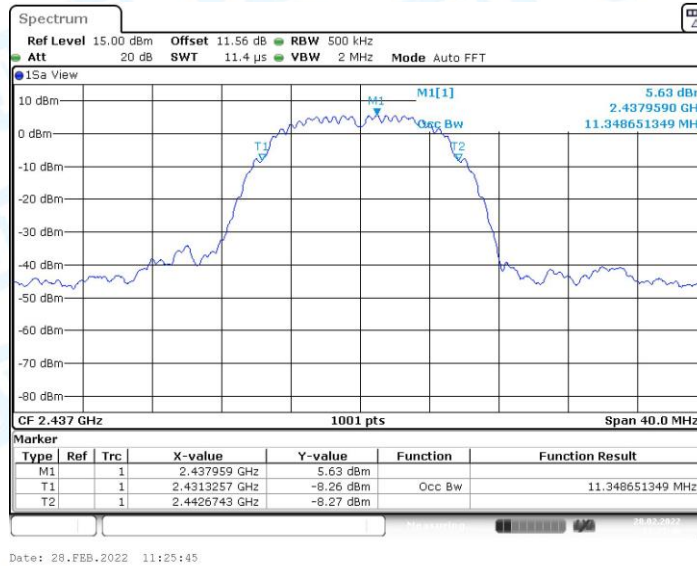
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.349	2406.286	2417.634	---	---
		2437	11.349	2431.326	2442.674	---	---
		2462	11.309	2456.326	2467.634	---	---
11G	Ant1	2412	16.863	2403.608	2420.472	---	---
		2437	16.943	2428.568	2445.511	---	---
		2462	16.983	2453.528	2470.511	---	---
11N20SISO	Ant1	2412	17.942	2403.009	2420.951	---	---
		2437	17.942	2428.009	2445.951	---	---
		2462	17.782	2453.089	2470.871	---	---

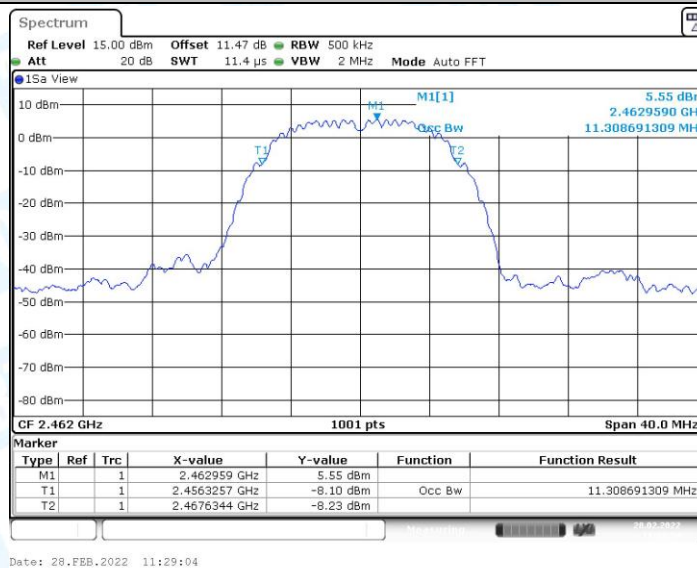
2.2. Test Graphs



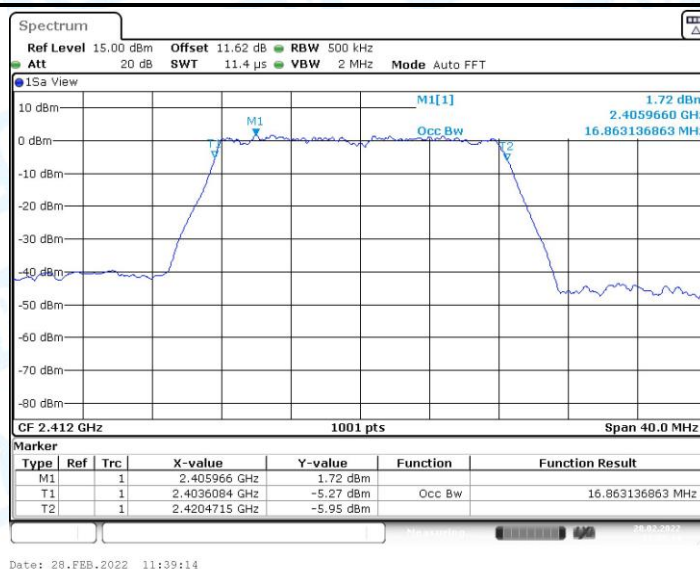
11B_Ant1_2412



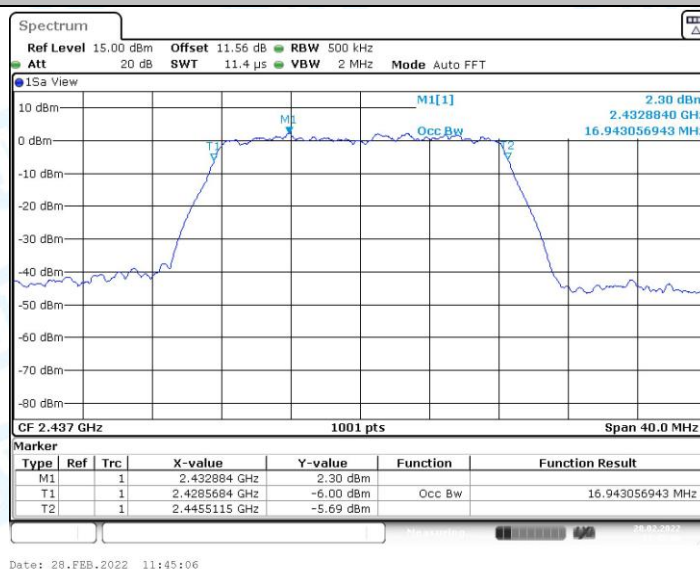
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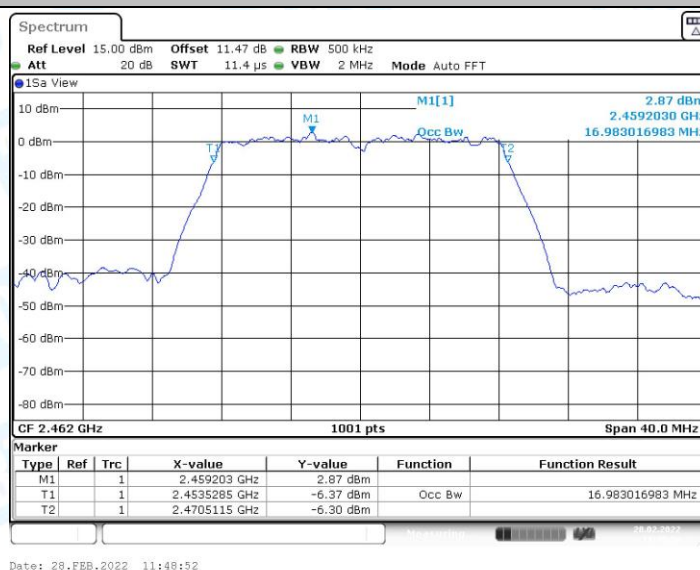
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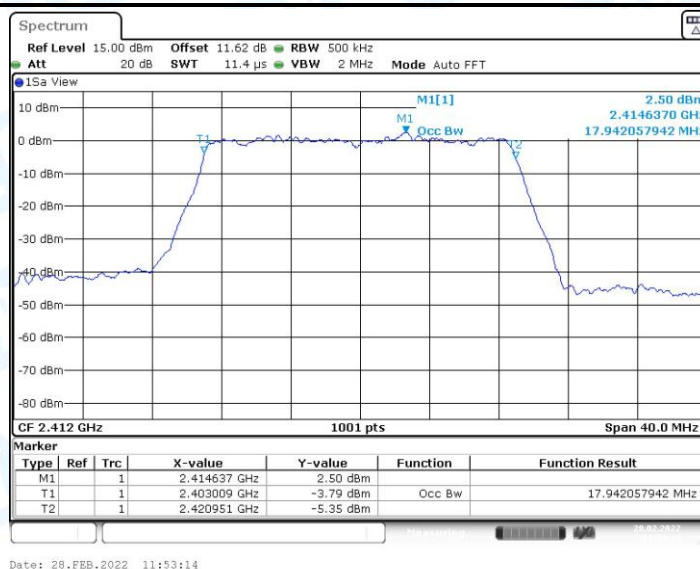
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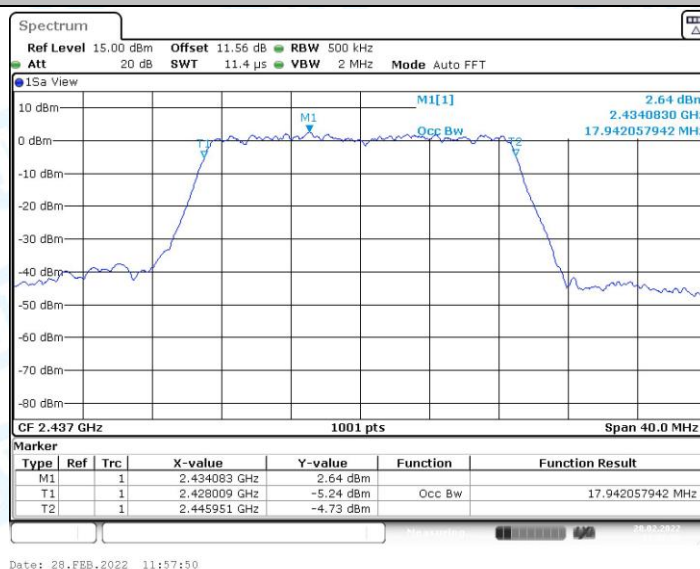
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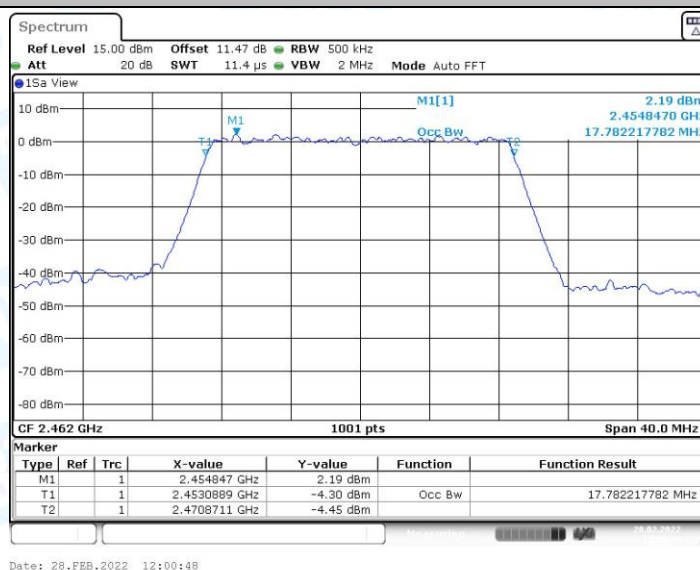
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

3. Maximum conducted output power

3.1. Test Result

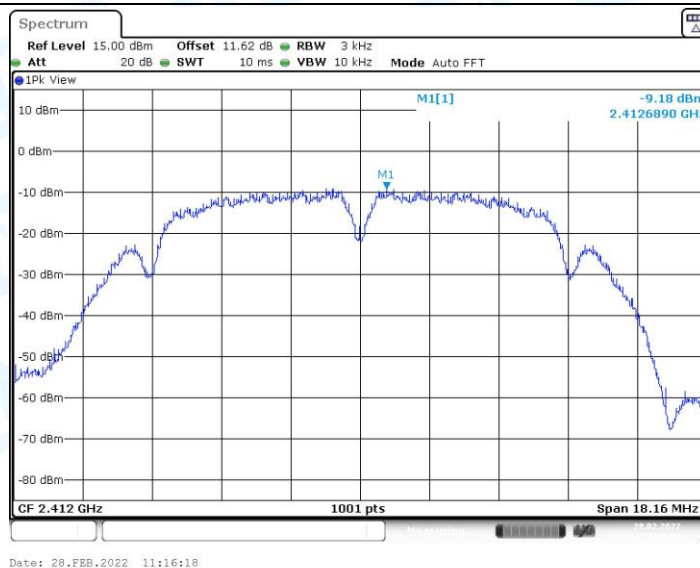
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.73	≤30.00	PASS
		2437	17.14	≤30.00	PASS
		2462	17.14	≤30.00	PASS
11G	Ant1	2412	17.10	≤30.00	PASS
		2437	17.20	≤30.00	PASS
		2462	17.27	≤30.00	PASS
11N20SISO	Ant1	2412	17.08	≤30.00	PASS
		2437	17.57	≤30.00	PASS
		2462	17.49	≤30.00	PASS

4. Maximum power spectral density

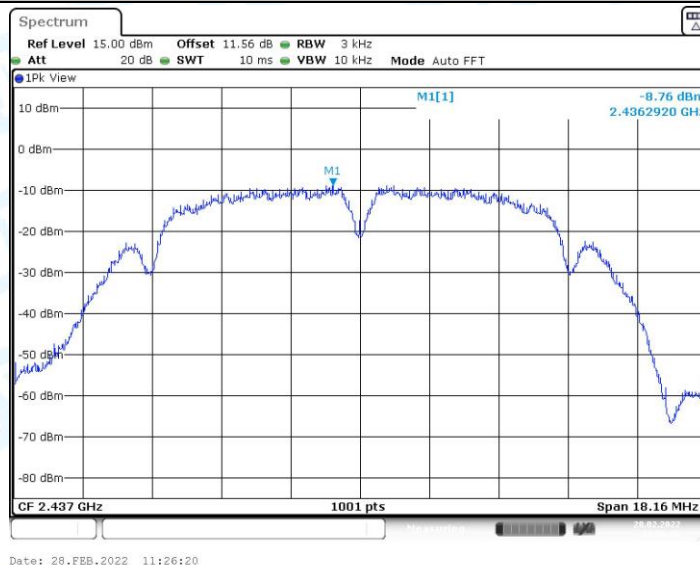
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.18	≤8.00	PASS
		2437	-8.76	≤8.00	PASS
		2462	-8.92	≤8.00	PASS
11G	Ant1	2412	-14.81	≤8.00	PASS
		2437	-14.54	≤8.00	PASS
		2462	-15.38	≤8.00	PASS
11N20SISO	Ant1	2412	-13.78	≤8.00	PASS
		2437	-14.53	≤8.00	PASS
		2462	-14.7	≤8.00	PASS

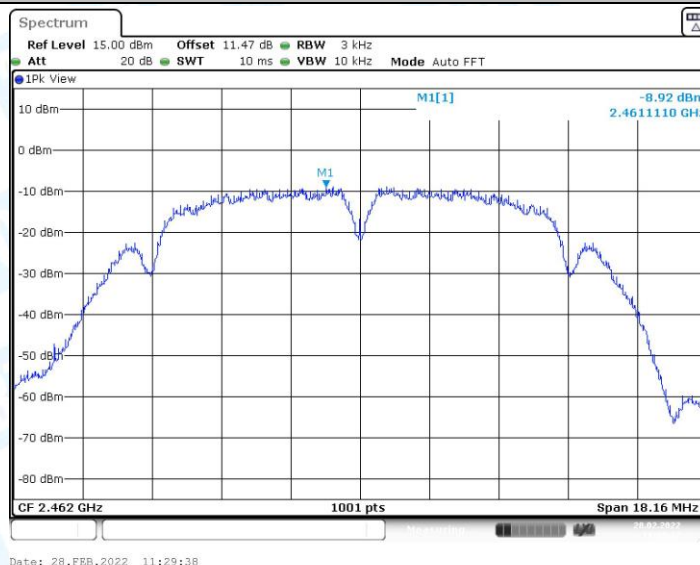
4.2. Test Graphs



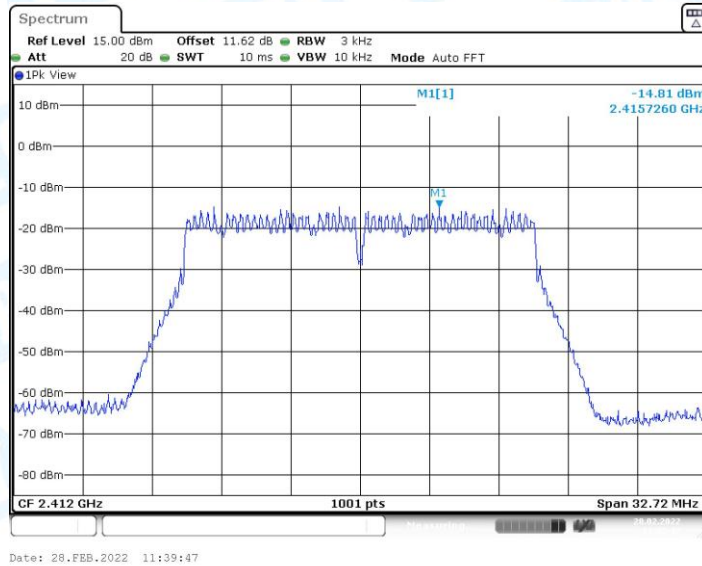
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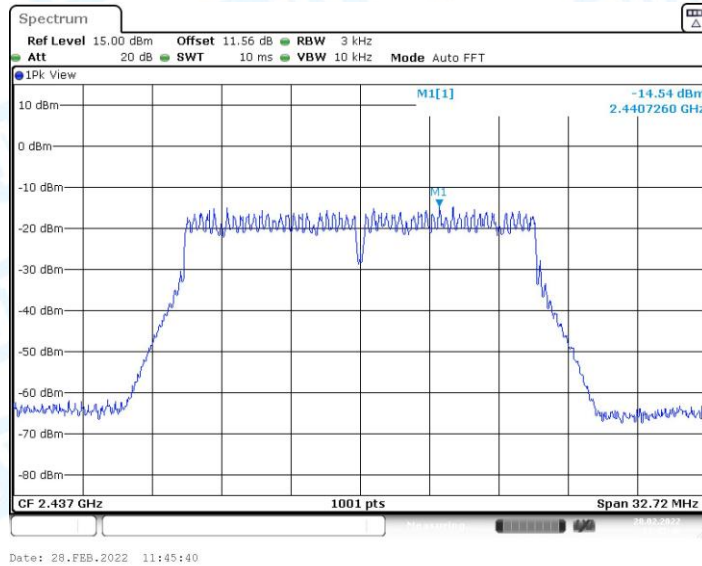
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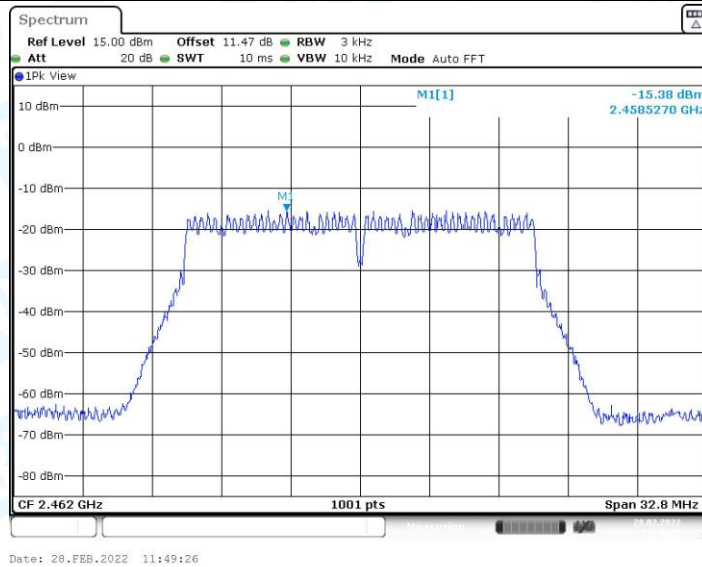
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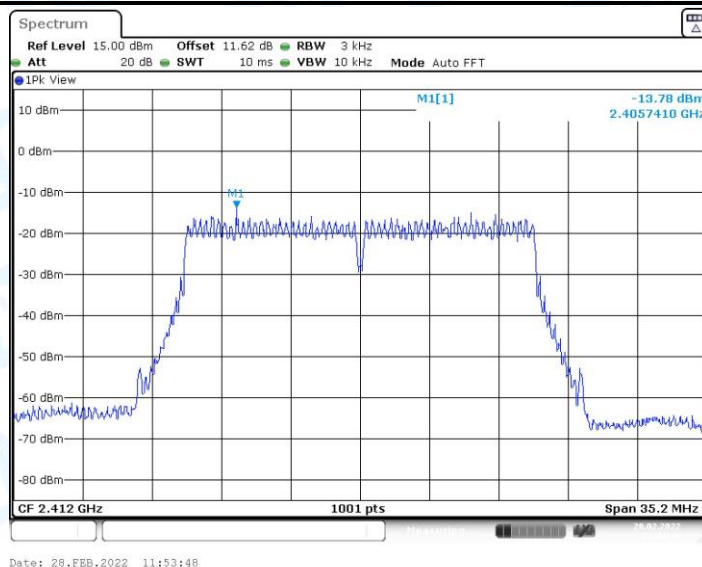
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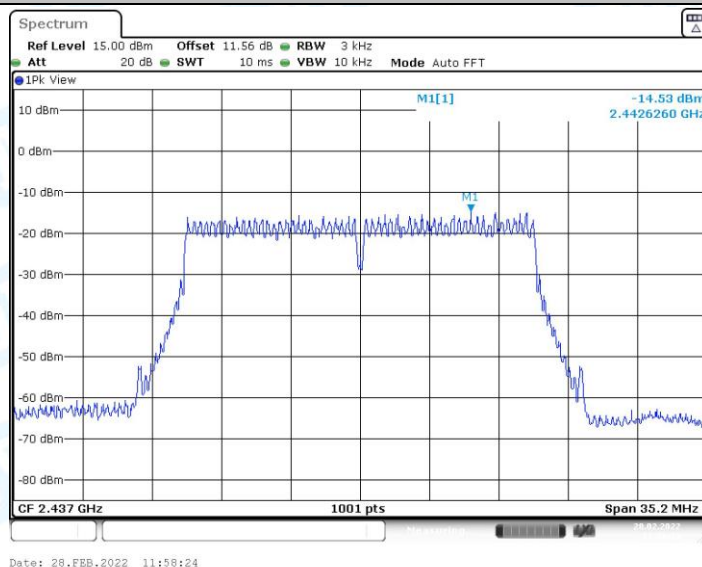
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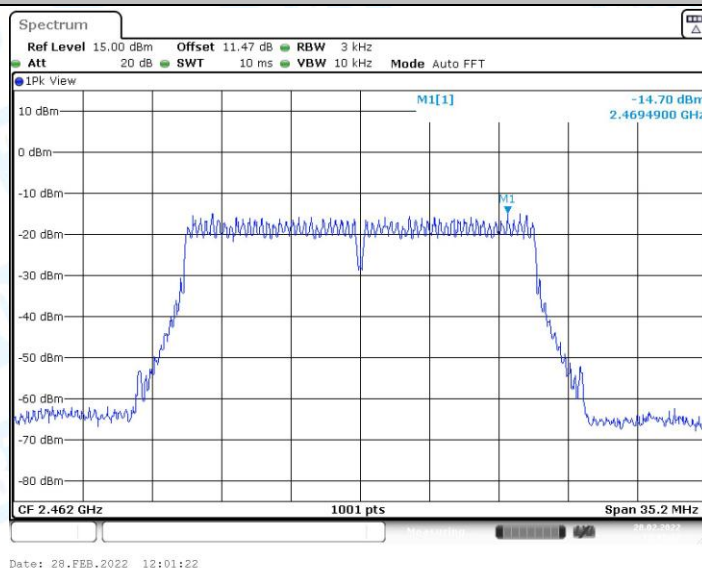
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11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



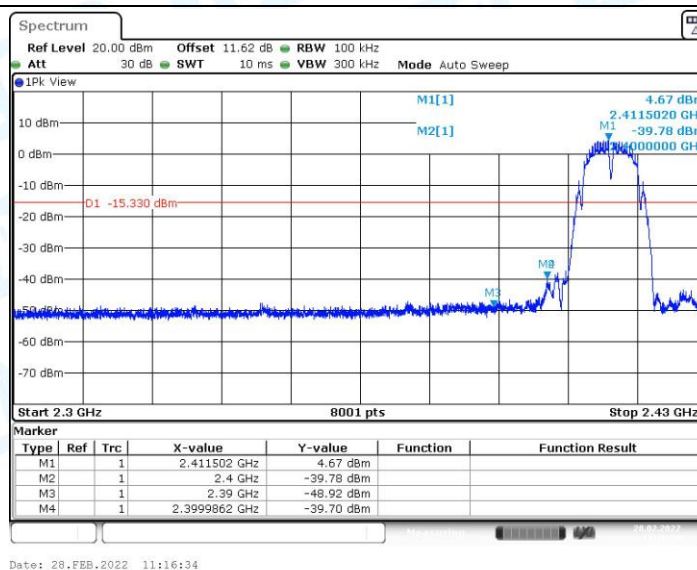
11N20SISO_Ant1_2462

5. Band edge measurements

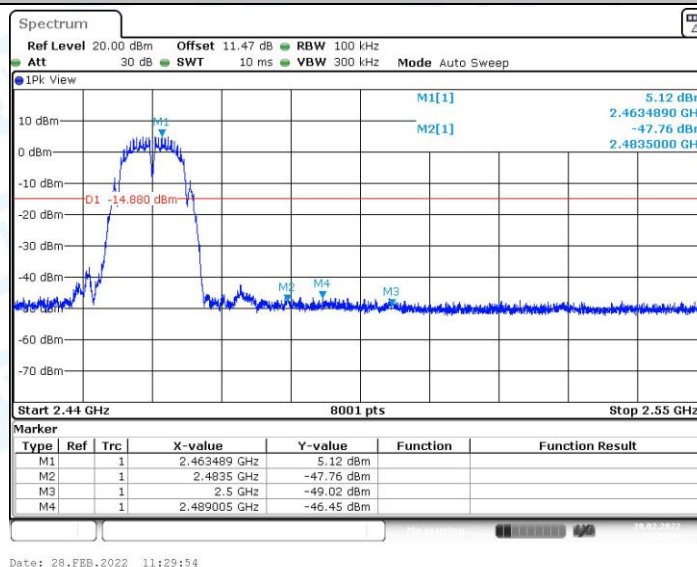
5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.67	-39.7	≤ -15.33	PASS
		High	2462	5.12	-46.45	≤ -14.88	PASS
11G	Ant1	Low	2412	-2.67	-44.03	≤ -22.67	PASS
		High	2462	-2.49	-46.73	≤ -22.49	PASS
11N20SISO	Ant1	Low	2412	-2.58	-44.57	≤ -22.58	PASS
		High	2462	-2.26	-46.89	≤ -22.26	PASS

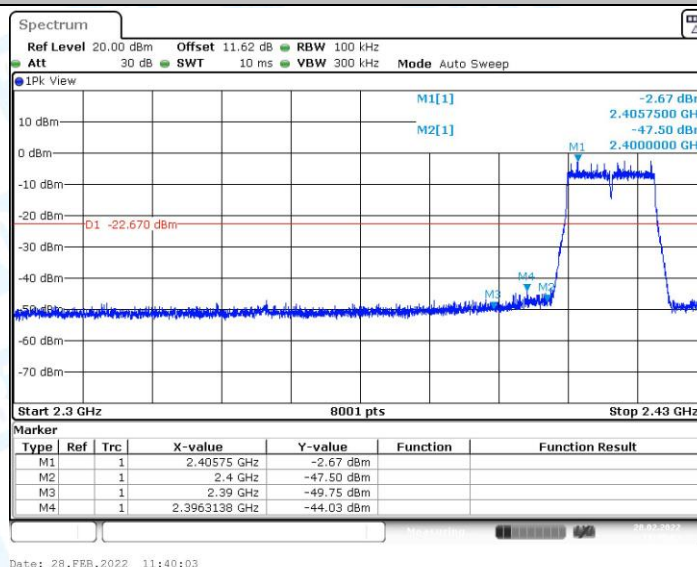
5.2. Test Graphs



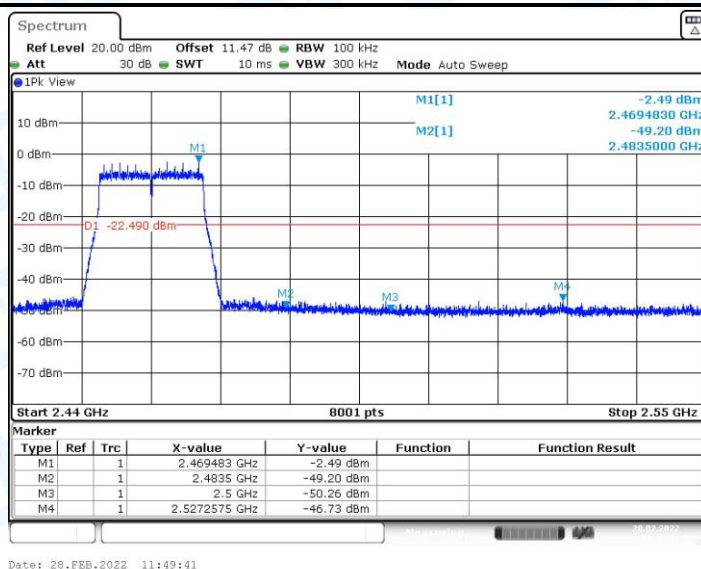
11B_Ant1_Low_2412



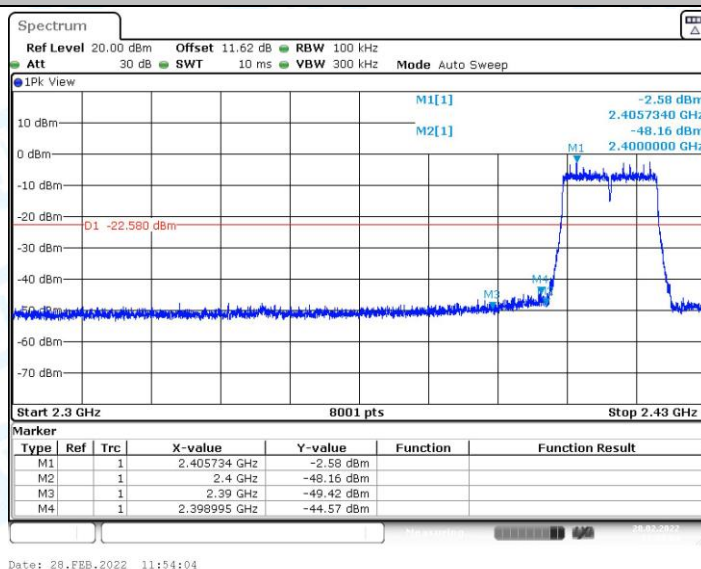
11B_Ant1_High_2462



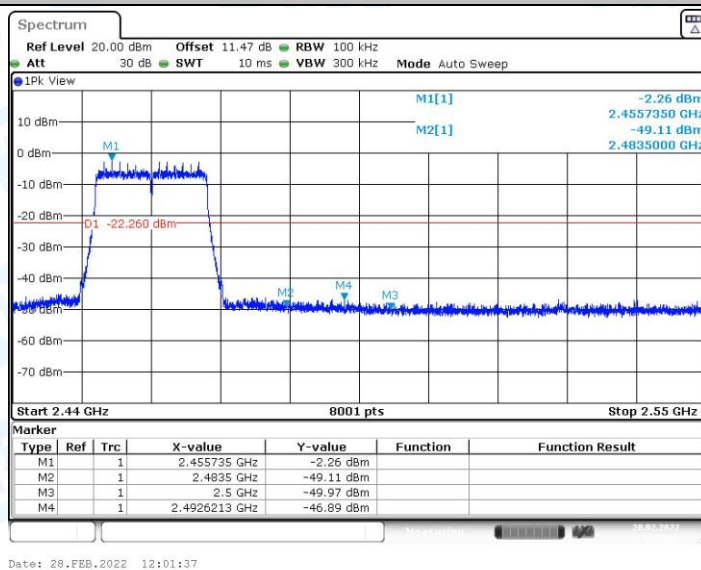
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

6. Conducted Spurious Emission

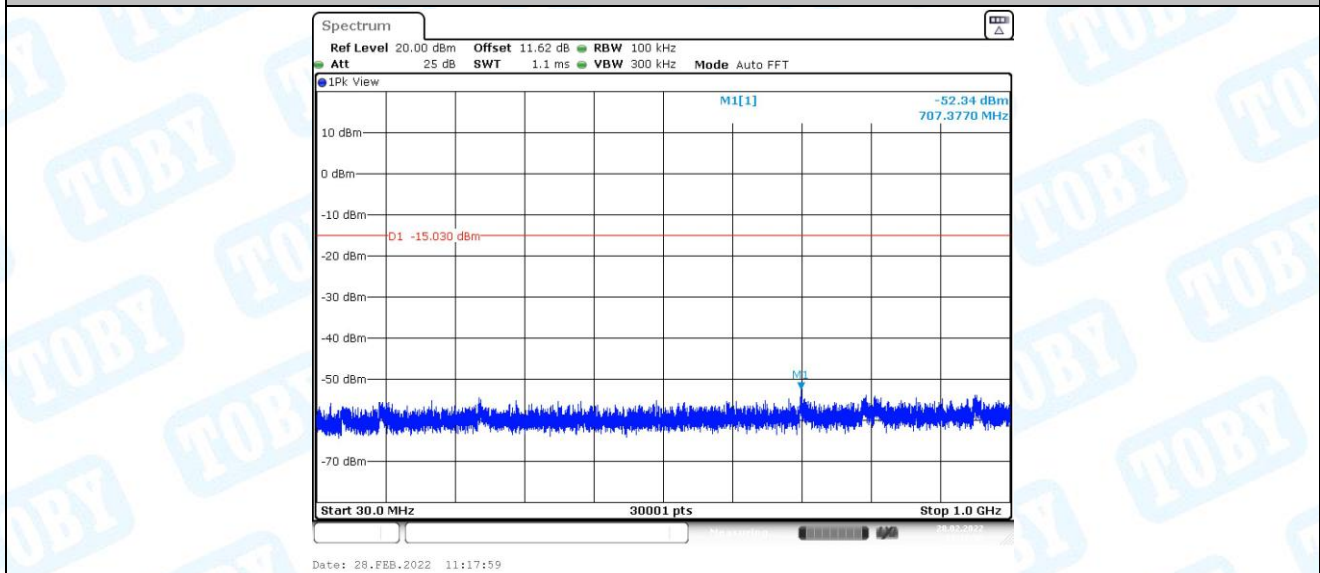
6.1. Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.97	4.97	---	PASS
			30~1000	4.97	-52.34	≤-15.03	PASS
			1000~26500	4.97	-29.84	≤-15.03	PASS
		2437	Reference	5.15	5.15	---	PASS
			30~1000	5.15	-53.62	≤-14.85	PASS
			1000~26500	5.15	-28.48	≤-14.85	PASS
		2462	Reference	5.35	5.35	---	PASS
			30~1000	5.35	-53.47	≤-14.65	PASS
			1000~26500	5.35	-28.32	≤-14.65	PASS
11G	Ant1	2412	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-53.89	≤-22.54	PASS
			1000~26500	-2.54	-46.72	≤-22.54	PASS
		2437	Reference	-2.43	-2.43	---	PASS
			30~1000	-2.43	-52.67	≤-22.43	PASS
			1000~26500	-2.43	-46.21	≤-22.43	PASS
		2462	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-53.36	≤-22.37	PASS
			1000~26500	-2.37	-45.18	≤-22.37	PASS
11N20SISO	Ant1	2412	Reference	-2.52	-2.52	---	PASS
			30~1000	-2.52	-52.72	≤-22.52	PASS
			1000~26500	-2.52	-46.55	≤-22.52	PASS
		2437	Reference	-2.20	-2.20	---	PASS
			30~1000	-2.20	-53.28	≤-22.2	PASS
			1000~26500	-2.20	-45.62	≤-22.2	PASS
		2462	Reference	-2.12	-2.12	---	PASS
			30~1000	-2.12	-53.85	≤-22.12	PASS
			1000~26500	-2.12	-45.12	≤-22.12	PASS

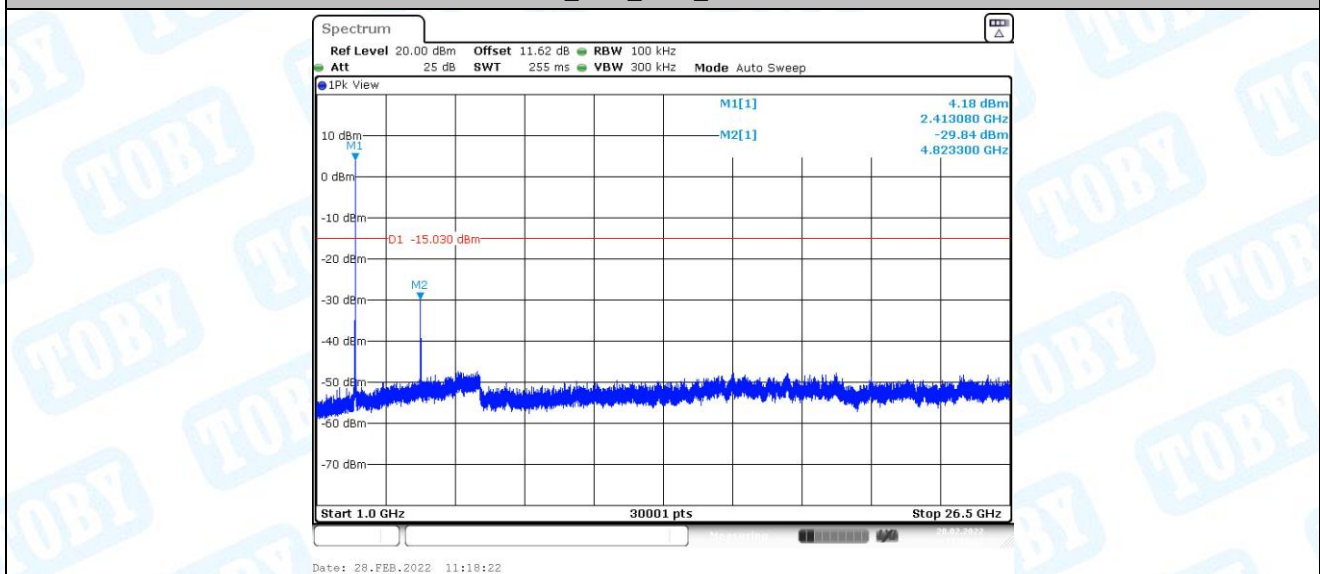
6.2.Test Graphs



11B_Ant1_2412_0~Reference



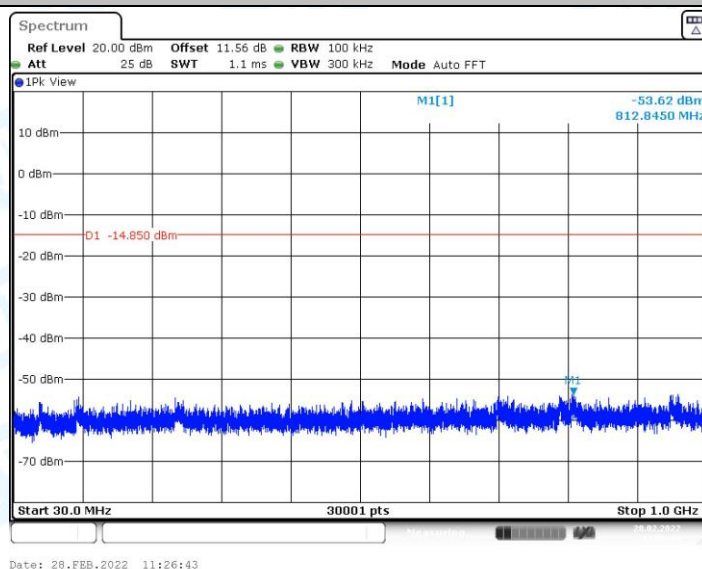
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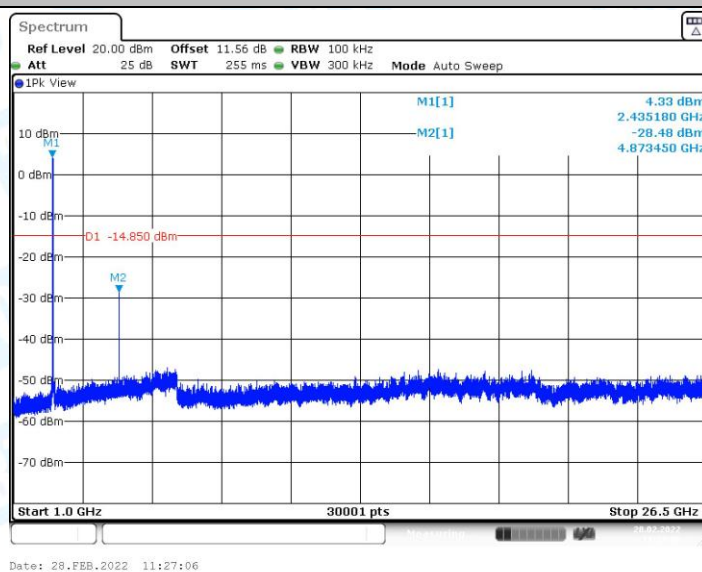
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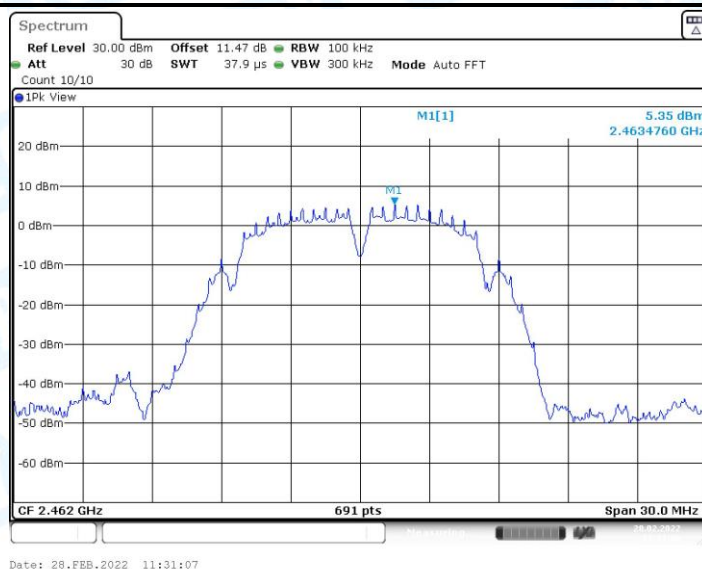
11B_Ant1_2437_0~Reference



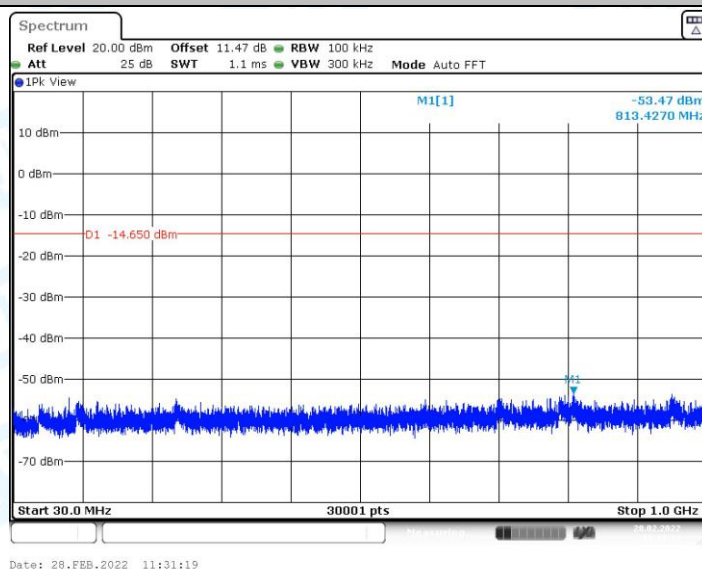
11B_Ant1_2437_30~1000



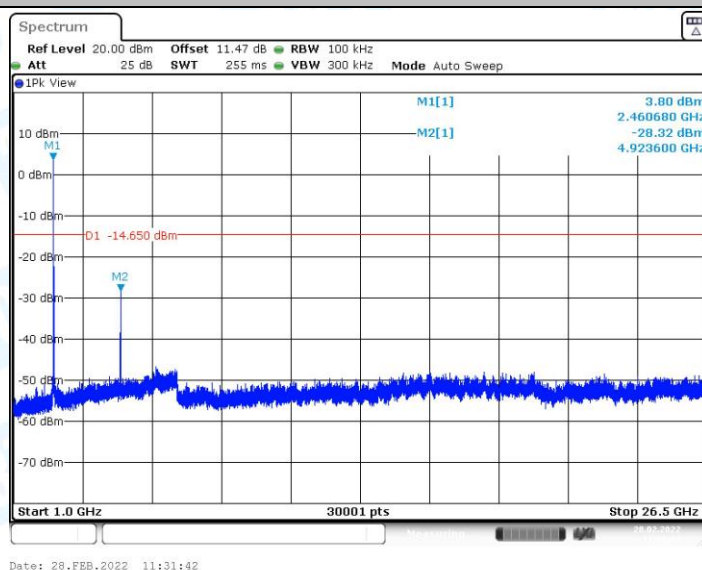
11B_Ant1_2437_1000~26500



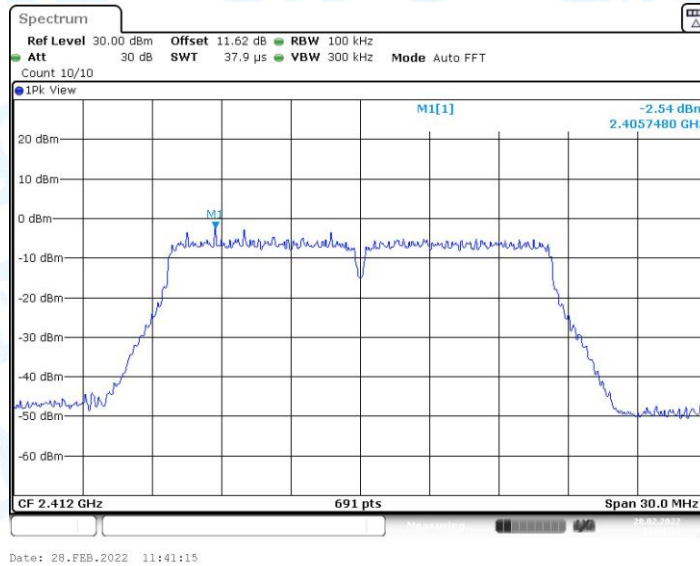
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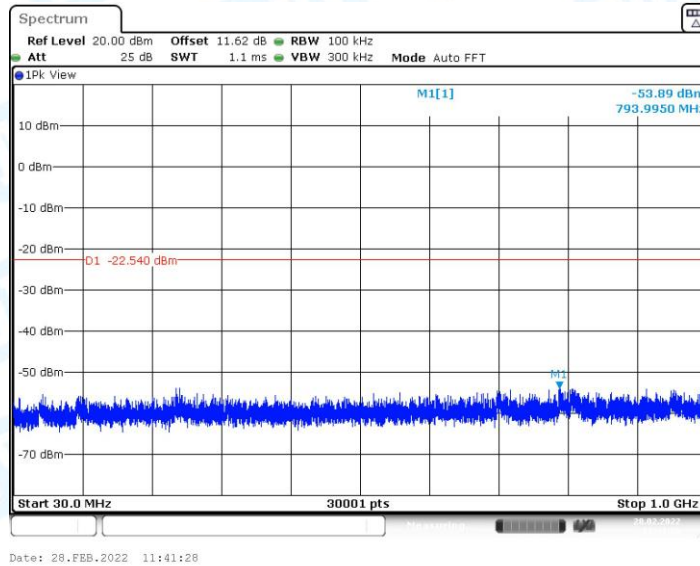
11B_Ant1_2462_30~1000



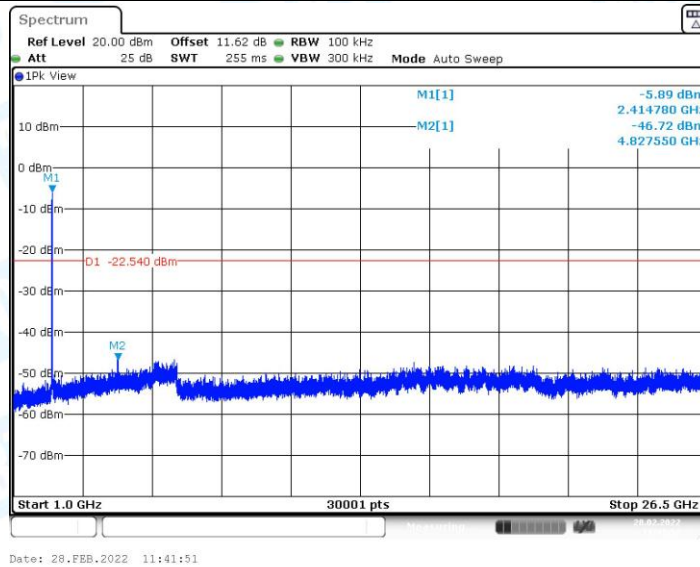
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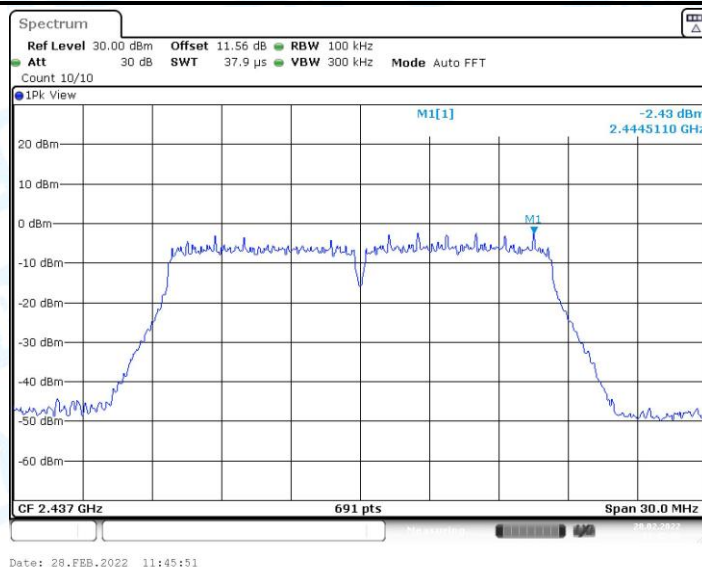
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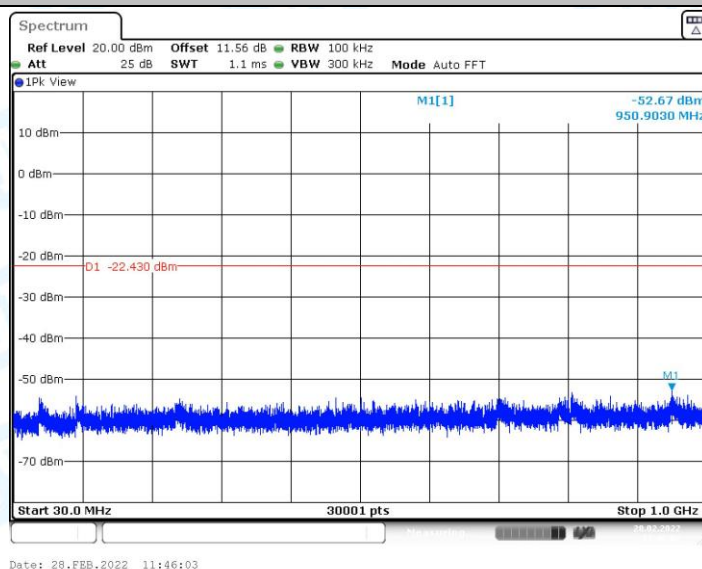
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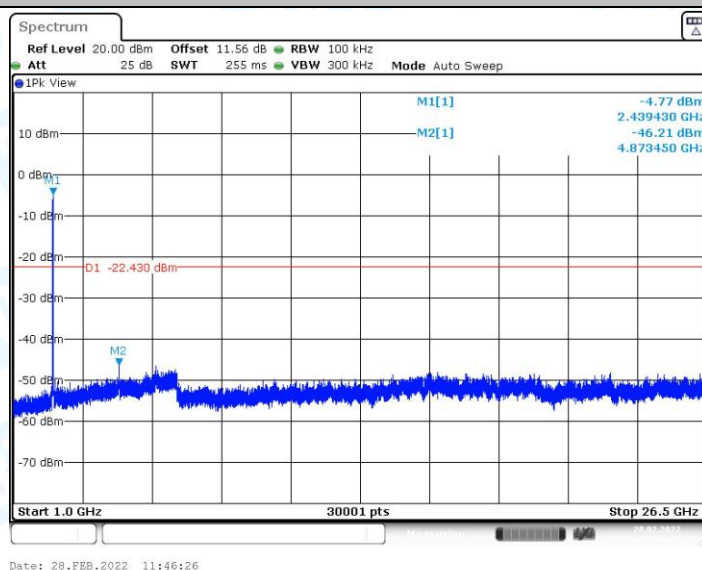
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500