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

General Description of EUT	
Product Name:	iTronCAM
Test Model:	iTronCAM
Sample ID:	RW-C-202209-0147-4-2#
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-202209-0147-88	

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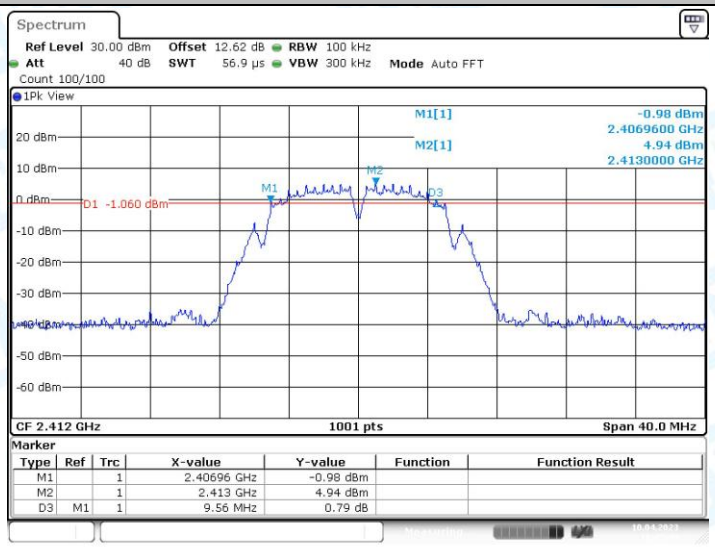
1. DTS Bandwidth

1.1.Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.56	2406.96	2416.52	0.5	PASS
		2437	9.56	2431.96	2441.52	0.5	PASS
		2462	9.56	2456.96	2466.52	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
		2437	16.48	2428.72	2445.20	0.5	PASS
		2462	16.60	2453.68	2470.28	0.5	PASS
11N20SISO	Ant1	2412	17.72	2403.16	2420.88	0.5	PASS
		2437	17.72	2428.12	2445.84	0.5	PASS
		2462	17.68	2453.16	2470.84	0.5	PASS

1.2.Test Graphs

11B_Ant1_2412



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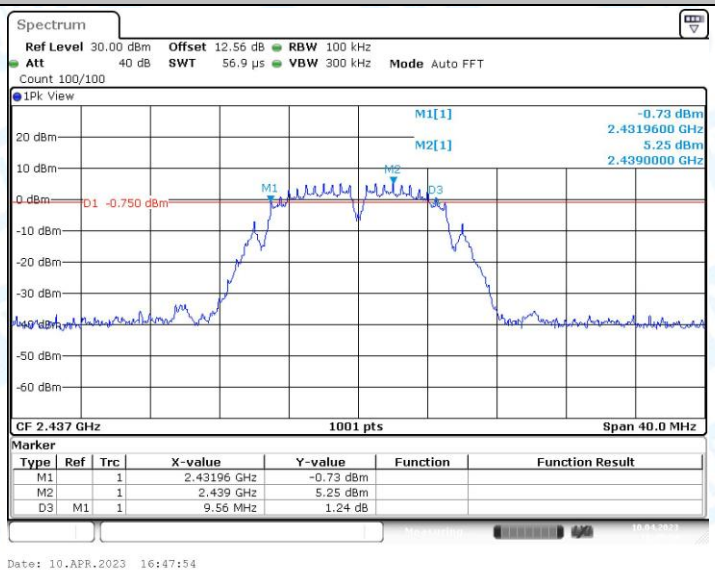

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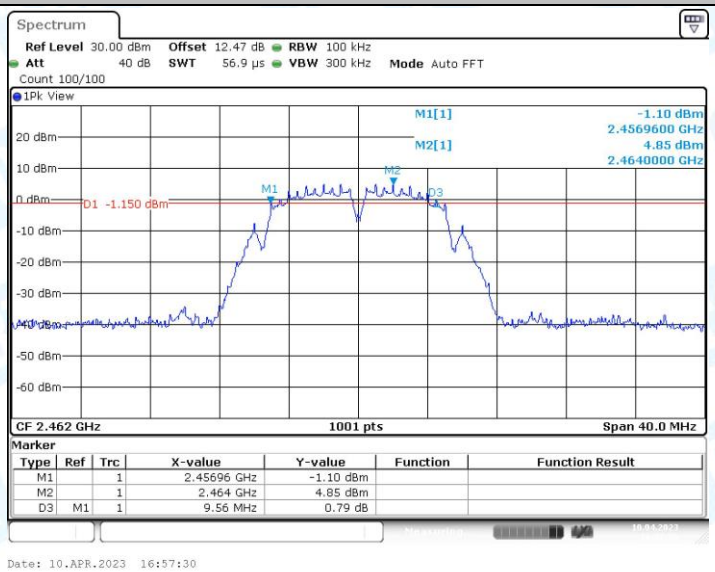

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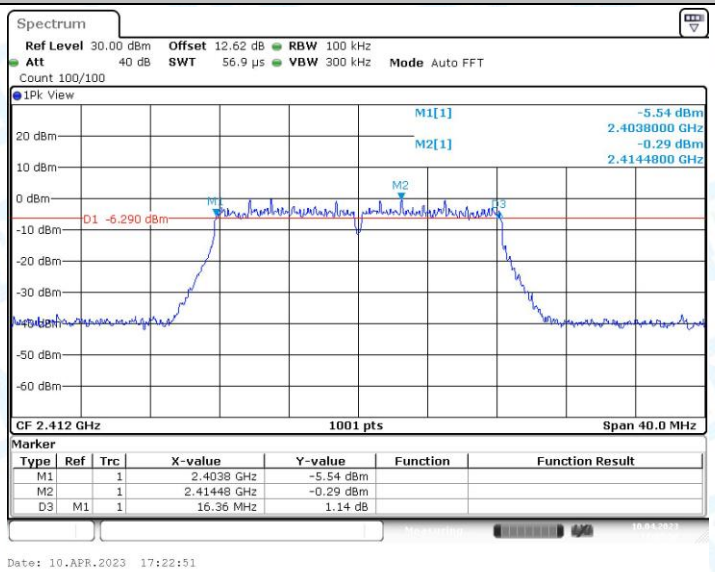

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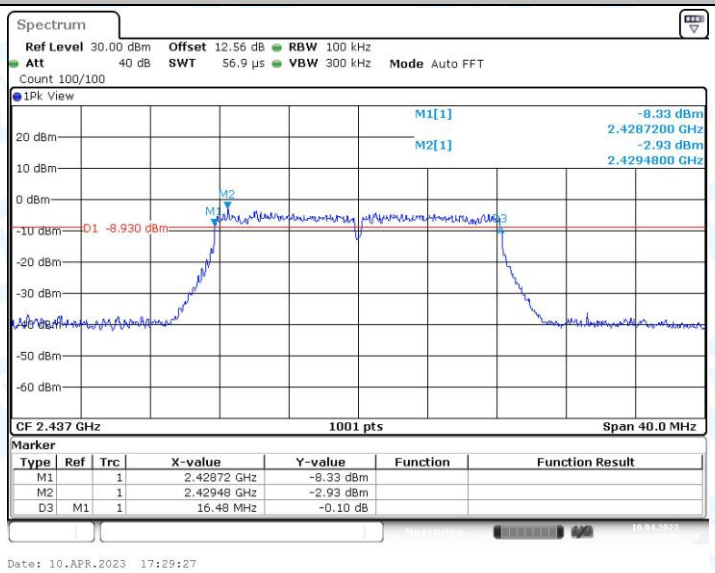

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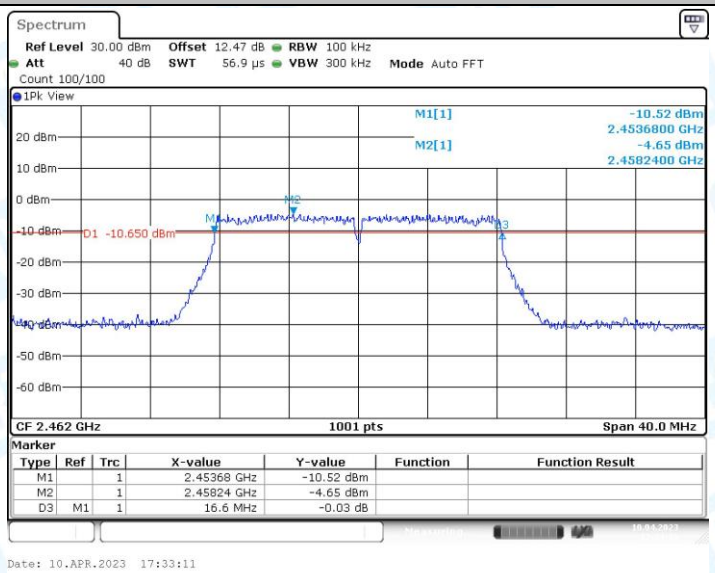

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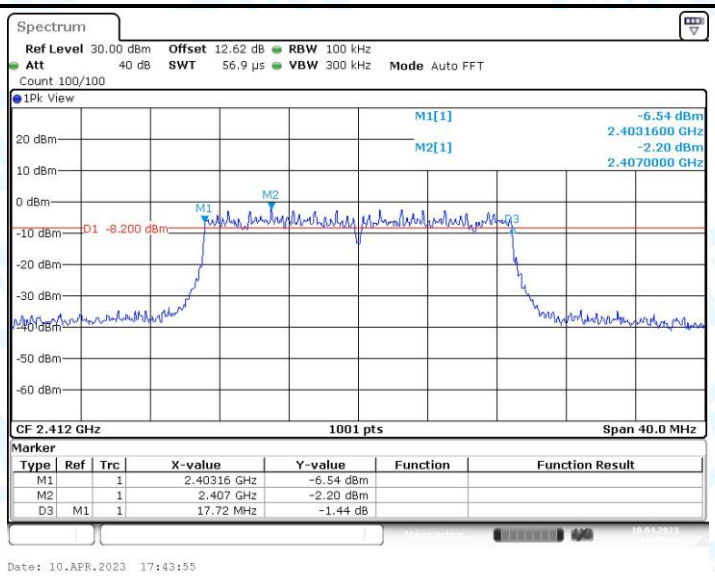

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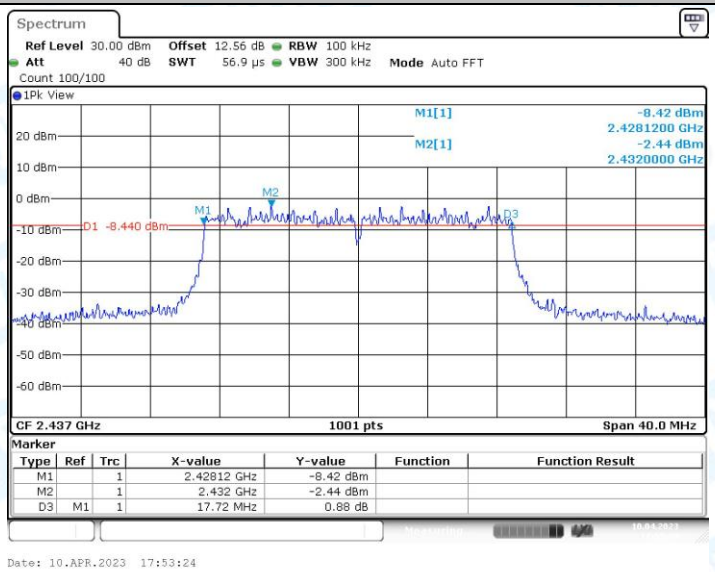

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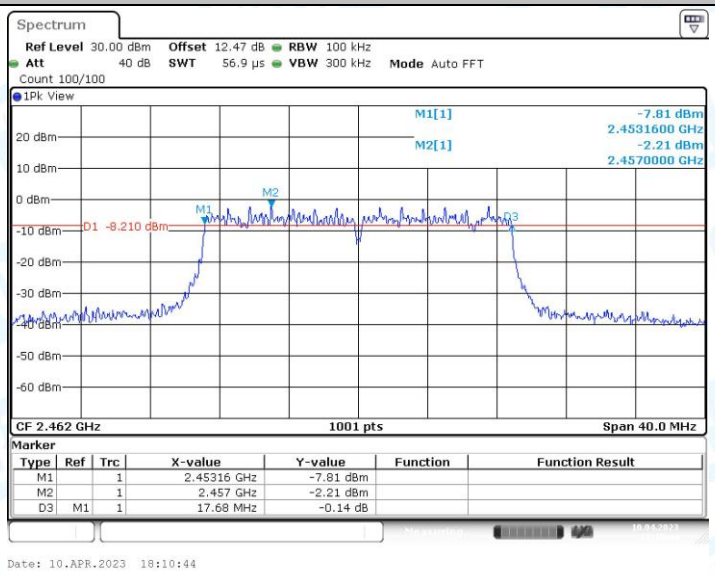


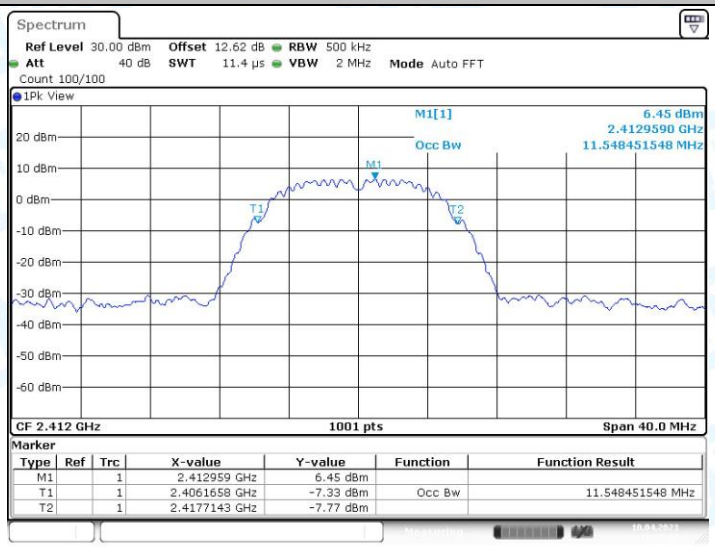
2. Occupied Channel Bandwidth

2.1.Test Result

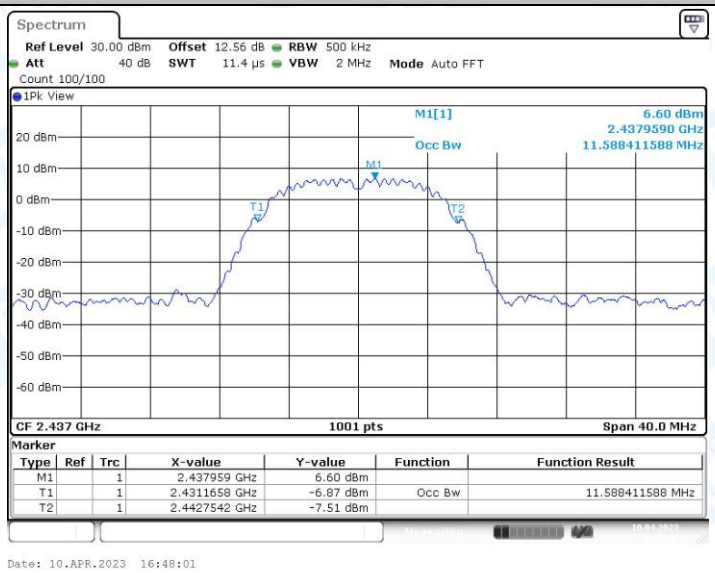
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.548	2406.1658	2417.7143	---	---
		2437	11.588	2431.1658	2442.7542	---	---
		2462	11.548	2456.1658	2467.7143	---	---
11G	Ant1	2412	16.823	2403.5285	2420.3516	---	---
		2437	17.143	2428.5684	2445.7113	---	---
		2462	16.903	2453.4486	2470.3516	---	---
11N20SISO	Ant1	2412	17.902	2403.0090	2420.9111	---	---
		2437	17.942	2428.0490	2445.9910	---	---
		2462	17.902	2453.0490	2470.9510	---	---

2.2.Test Graphs

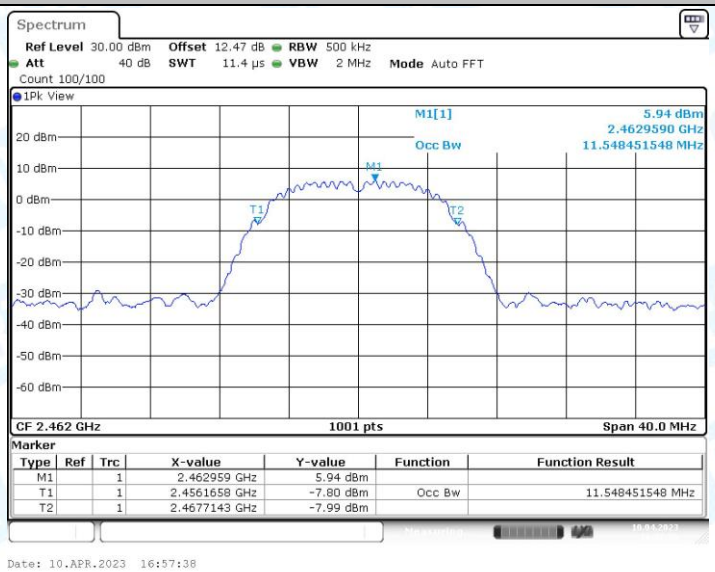
11B_Ant1_2412



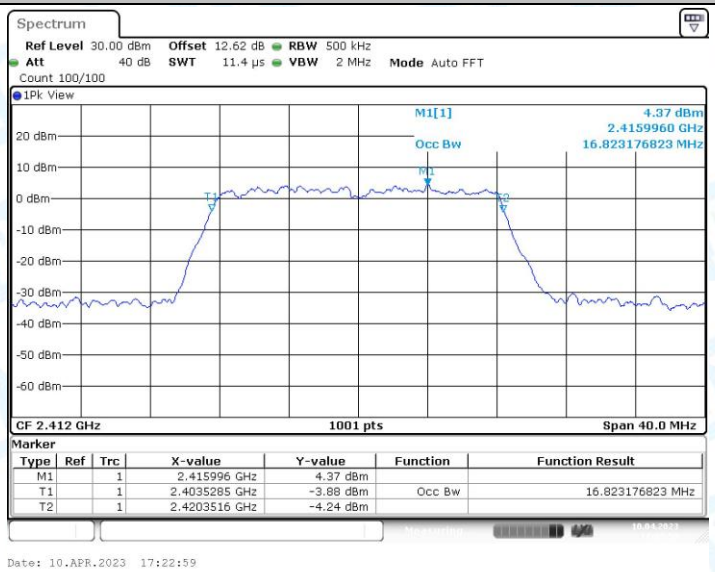
11B_Ant1_2437



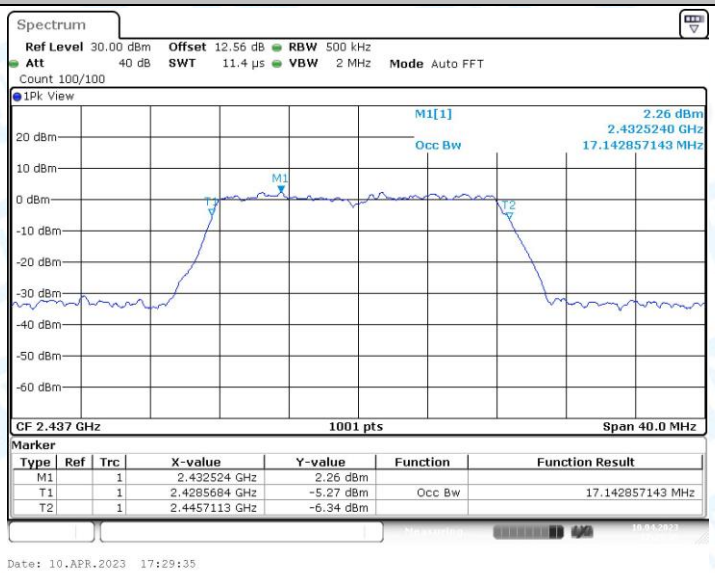
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



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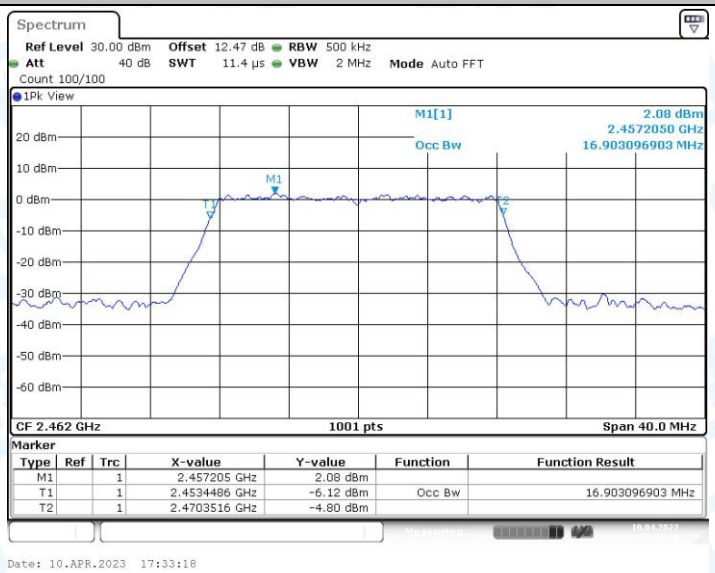

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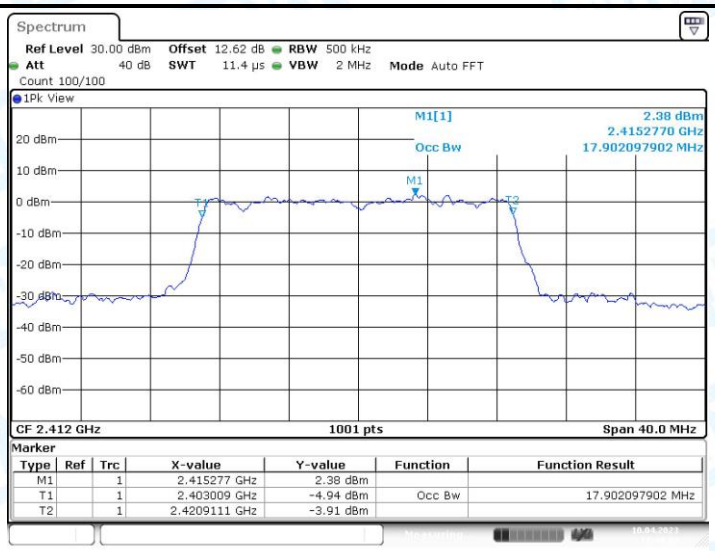

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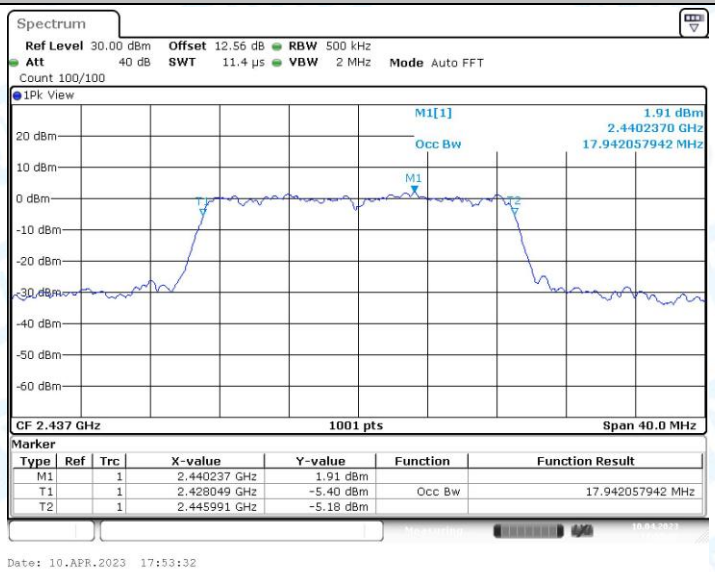

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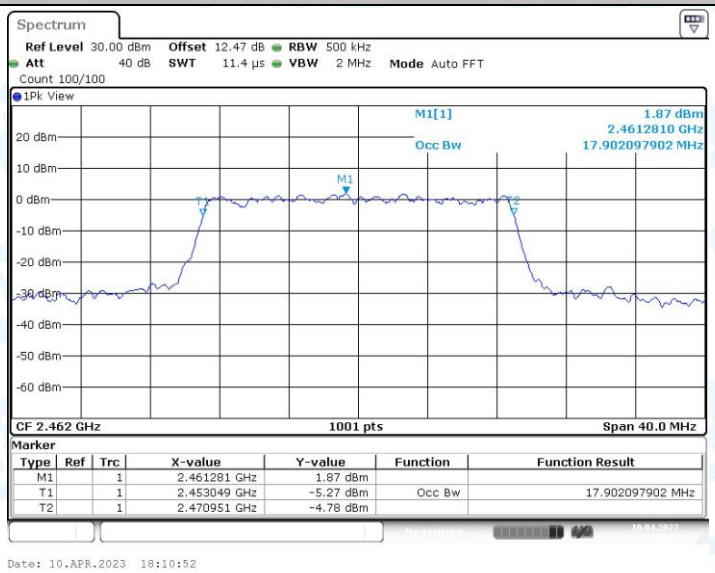


3. Maximum conducted output power

3.1.Test Result

TestMode	Antenna	Channel	Power [dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.87	≤30.00	20.22	≤36.00	PASS
		2437	17.98	≤30.00	20.33	≤36.00	PASS
		2462	17.31	≤30.00	19.66	≤36.00	PASS
11G	Ant1	2412	17.40	≤30.00	19.75	≤36.00	PASS
		2437	17.02	≤30.00	19.37	≤36.00	PASS
		2462	17.34	≤30.00	19.69	≤36.00	PASS
11N20SISO	Ant1	2412	16.40	≤30.00	18.75	≤36.00	PASS
		2437	16.04	≤30.00	18.39	≤36.00	PASS
		2462	16.23	≤30.00	18.58	≤36.00	PASS

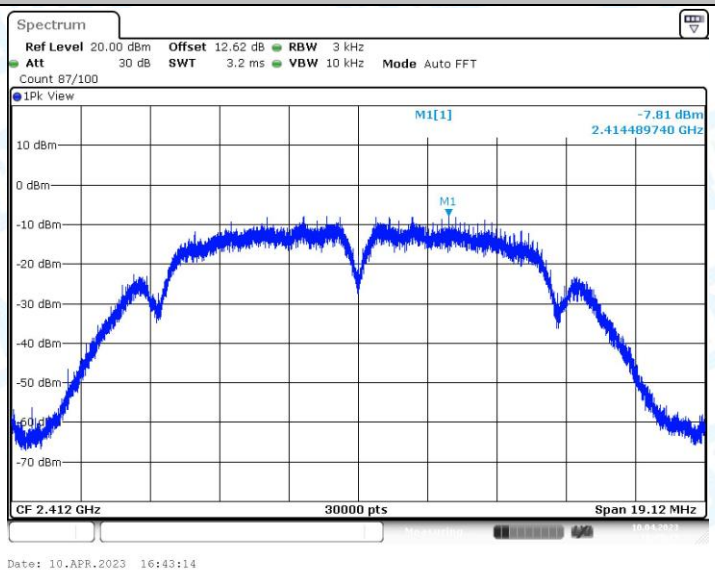
4. Maximum power spectral density

4.1.Test Result

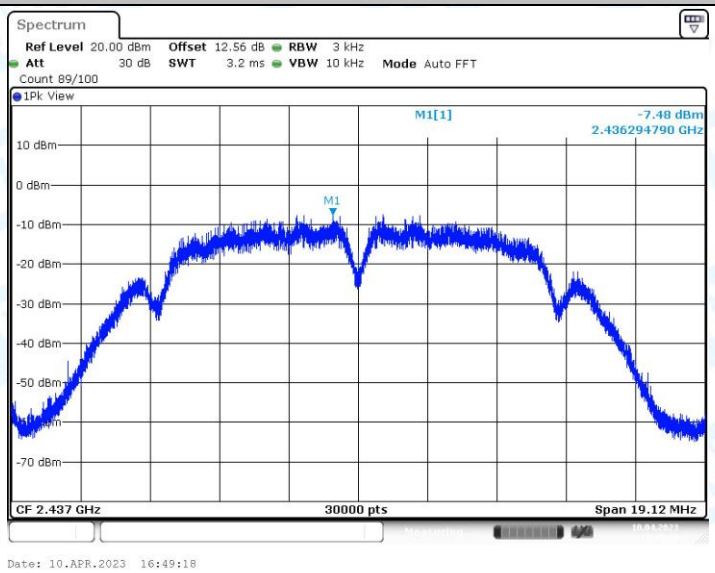
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.81	≤8.00	PASS
		2437	-7.48	≤8.00	PASS
		2462	-9.24	≤8.00	PASS
11G	Ant1	2412	-14.72	≤8.00	PASS
		2437	-15.3	≤8.00	PASS
		2462	-14.79	≤8.00	PASS
11N20SISO	Ant1	2412	-16.2	≤8.00	PASS
		2437	-16.88	≤8.00	PASS
		2462	-16.91	≤8.00	PASS

4.2.Test Graphs

11B_Ant1_2412



11B_Ant1_2437



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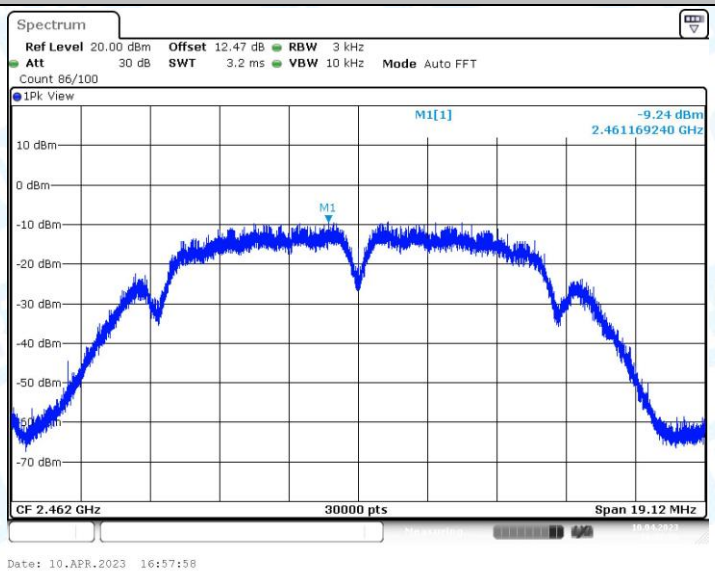
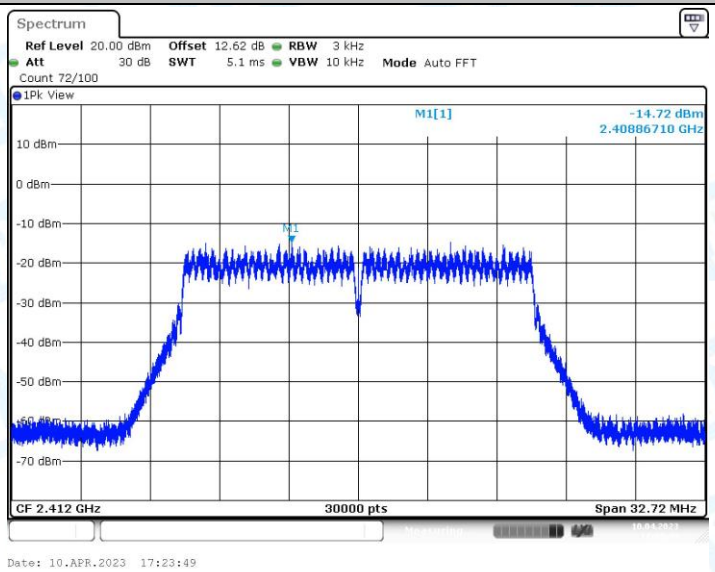
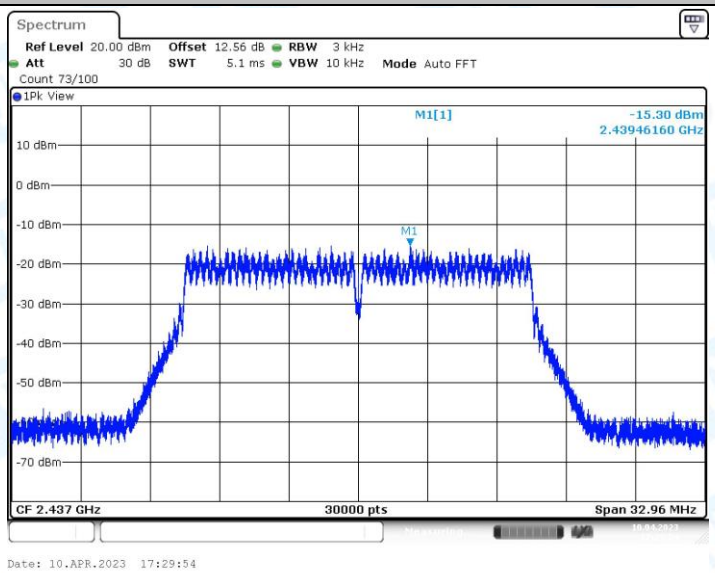


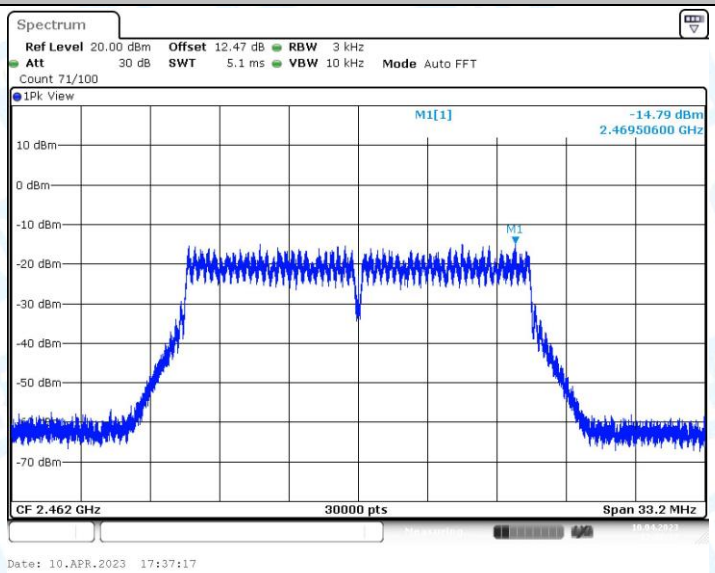
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



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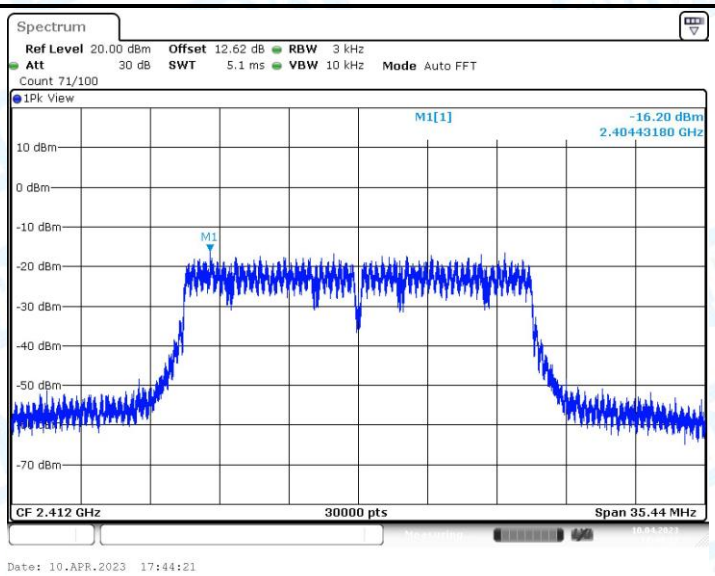

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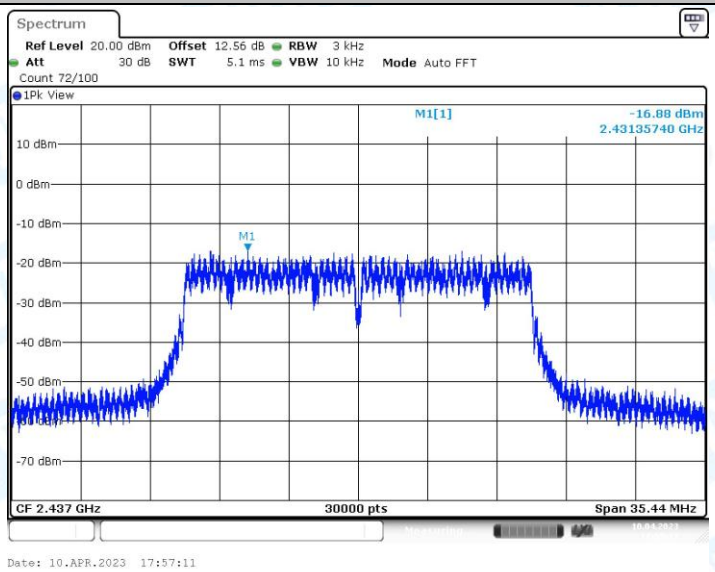

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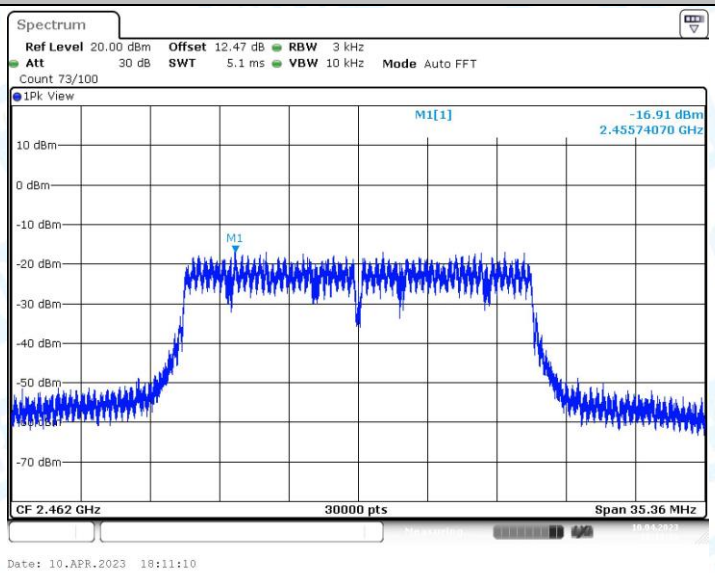


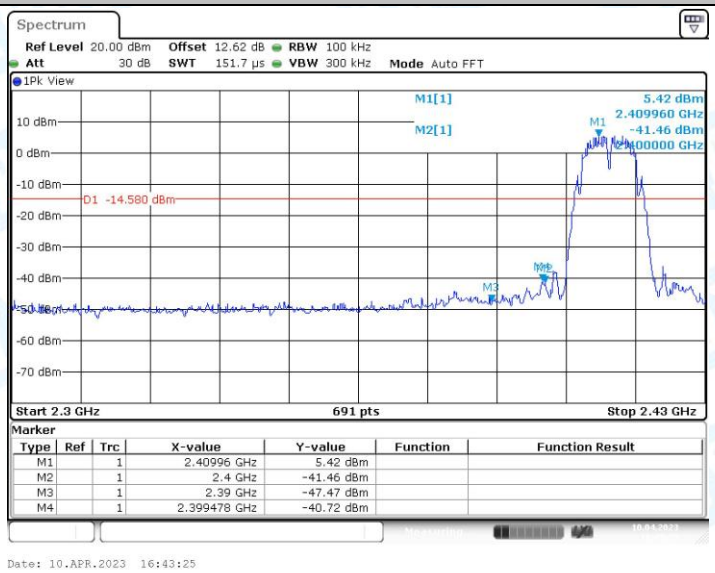
5. Band edge measurements

5.1.Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.42	-40.72	≤-14.58	PASS
		High	2462	4.88	-45.63	≤-15.12	PASS
11G	Ant1	Low	2412	-3.69	-44.25	≤-23.69	PASS
		High	2462	-2.28	-45.26	≤-22.28	PASS
11N20SISO	Ant1	Low	2412	-2.13	-36.3	≤-22.13	PASS
		High	2462	-2.23	-44.13	≤-22.23	PASS

5.2.Test Graphs

11B_Ant1_Low_2412



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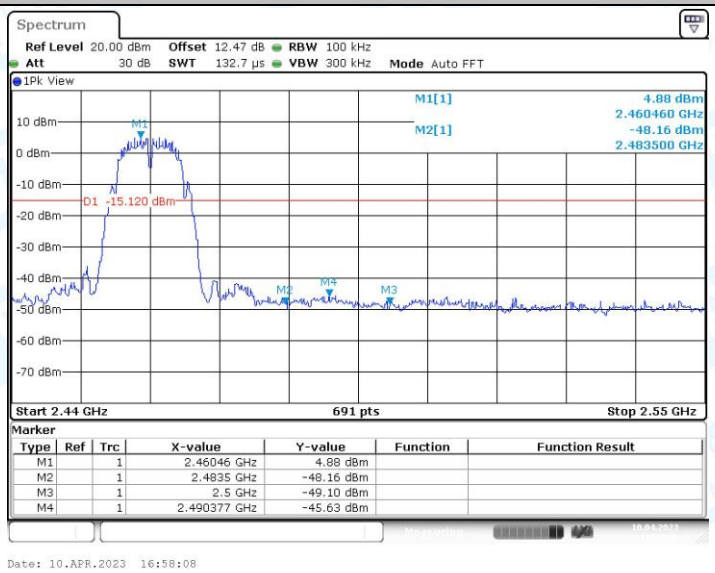

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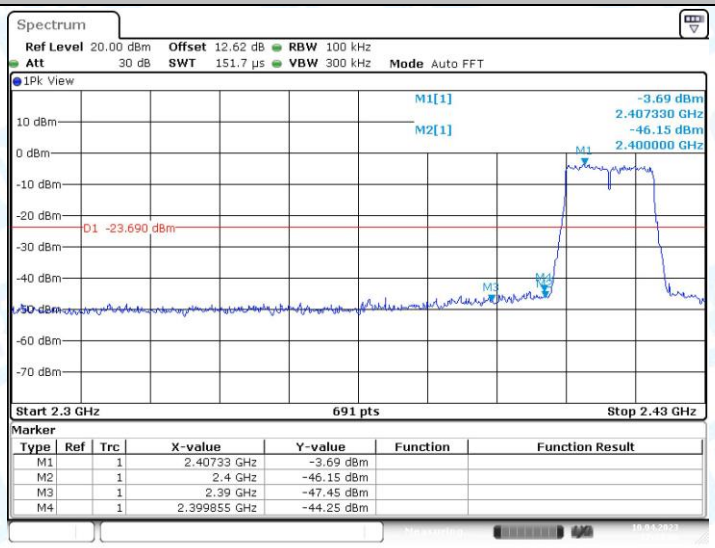

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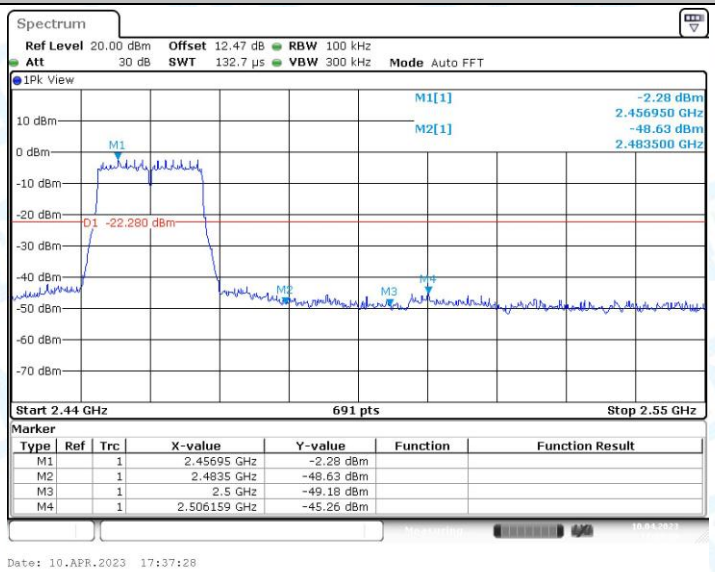

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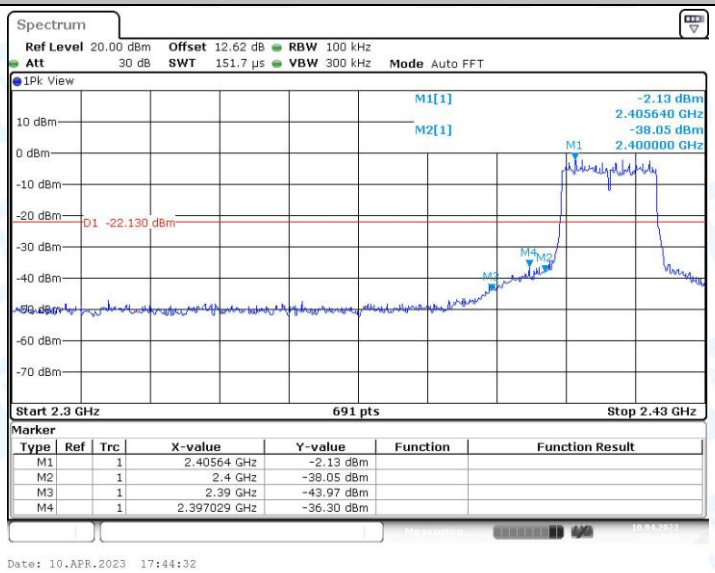
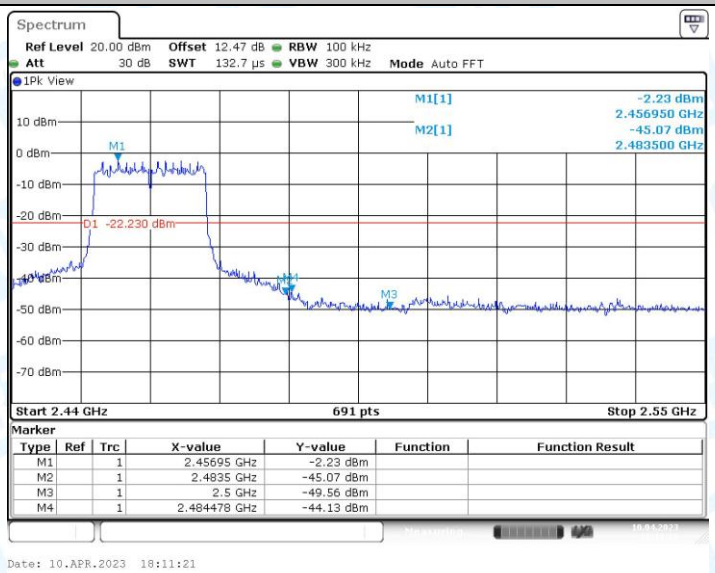
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