

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

General Description of EUT	
Product Name:	Wi-Fi Temperature & Humidity Sensor
Test Model:	TH16
Sample ID:	202203-0097-5-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 5V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202203-0097-17.	

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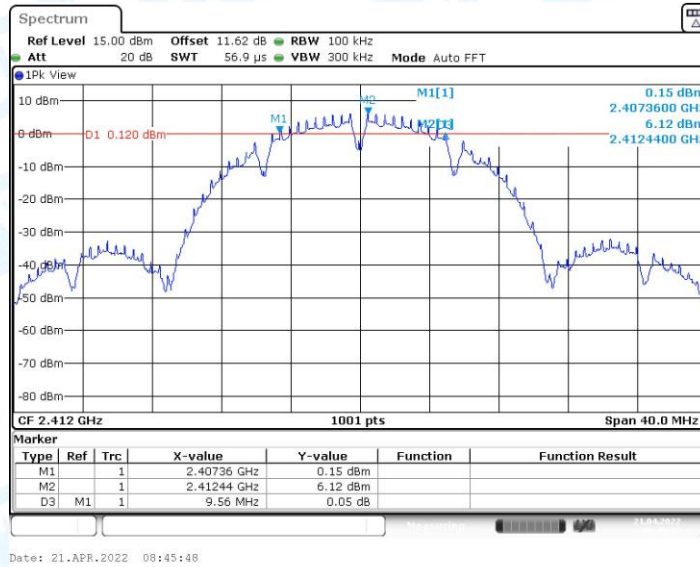
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1. DTS Bandwidth

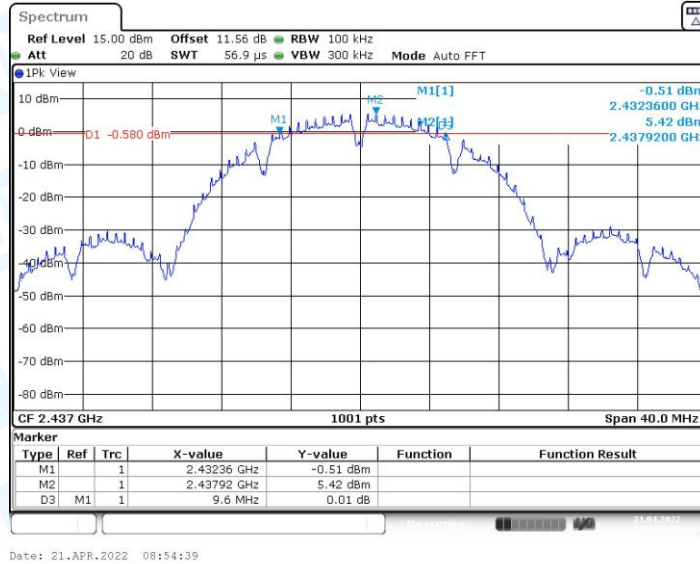
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.56	2407.36	2416.92	0.5	PASS
		2437	9.60	2432.36	2441.96	0.5	PASS
		2462	9.56	2457.36	2466.92	0.5	PASS
11G	Ant1	2412	13.80	2405.64	2419.44	0.5	PASS
		2437	12.56	2431.88	2444.44	0.5	PASS
		2462	12.56	2456.88	2469.44	0.5	PASS
11N20SISO	Ant1	2412	12.56	2406.88	2419.44	0.5	PASS
		2437	12.56	2431.88	2444.44	0.5	PASS
		2462	12.56	2456.88	2469.44	0.5	PASS
11N40SISO	Ant1	2422	33.92	2405.60	2439.52	0.5	PASS
		2437	32.64	2421.88	2454.52	0.5	PASS
		2452	31.28	2438.16	2469.44	0.5	PASS

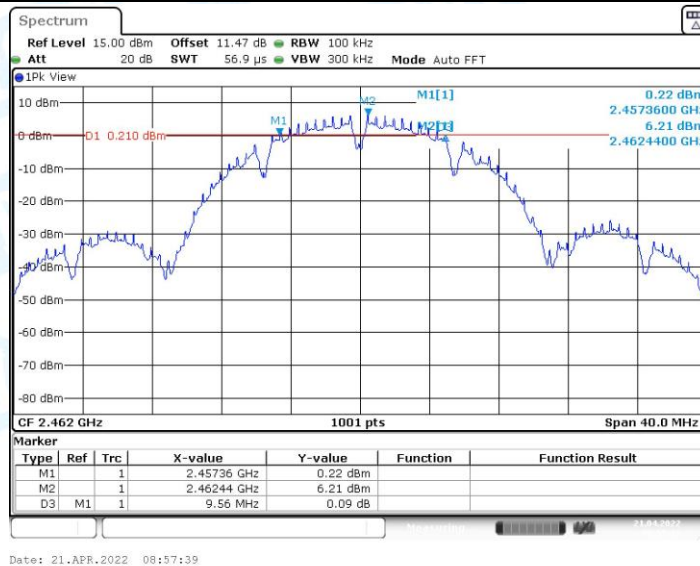
1.2. Test Graphs



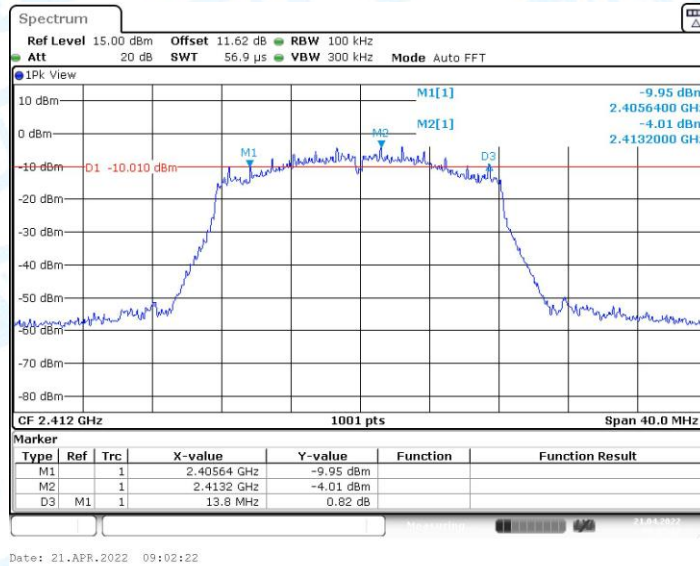
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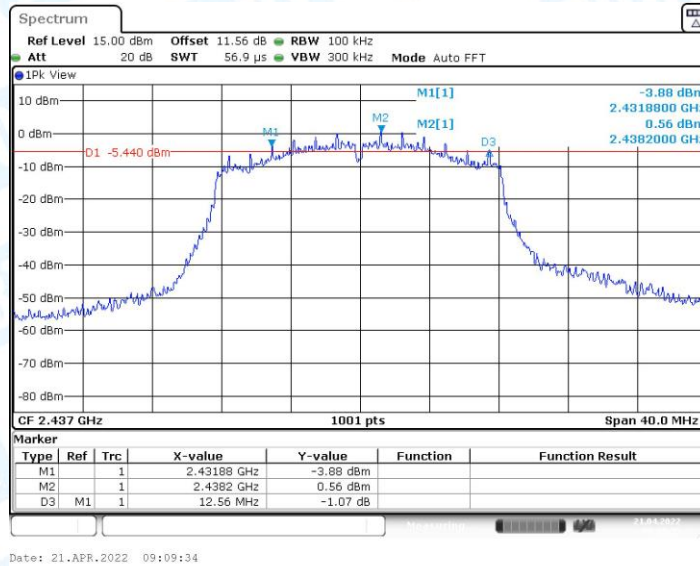
11B_Ant1_2437



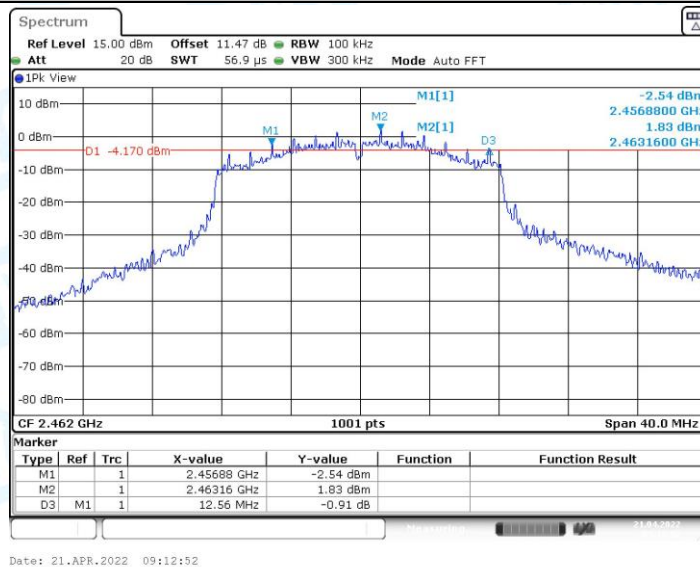
11B_Ant1_2462



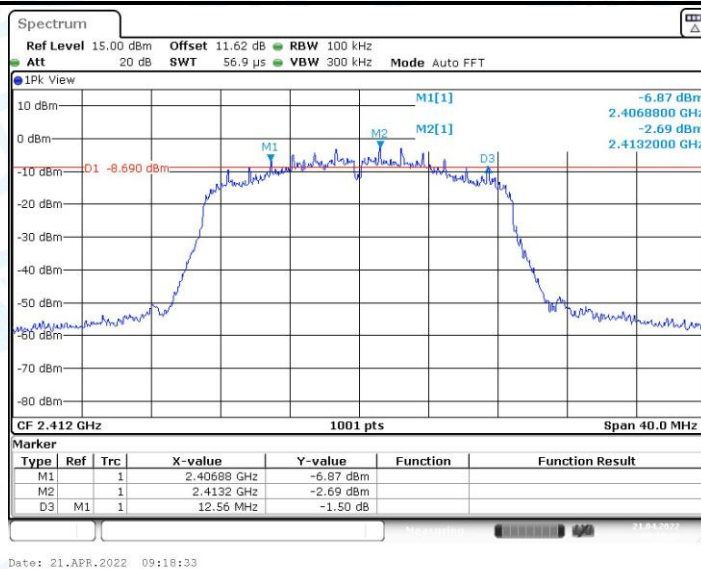
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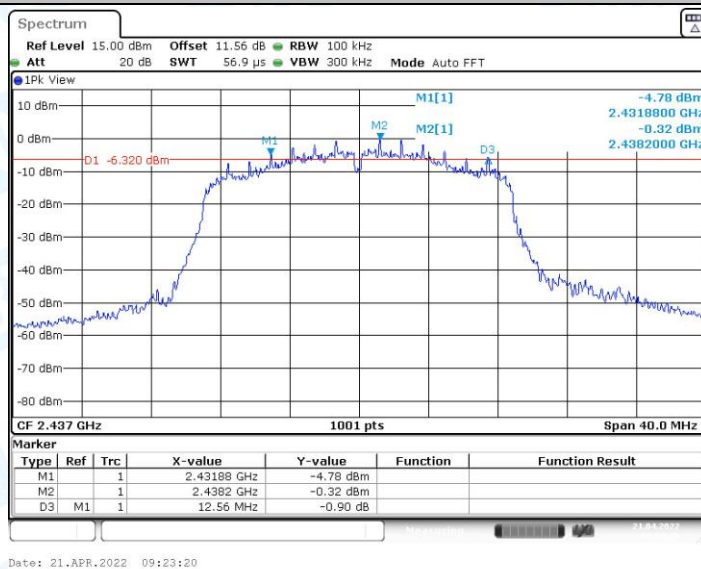
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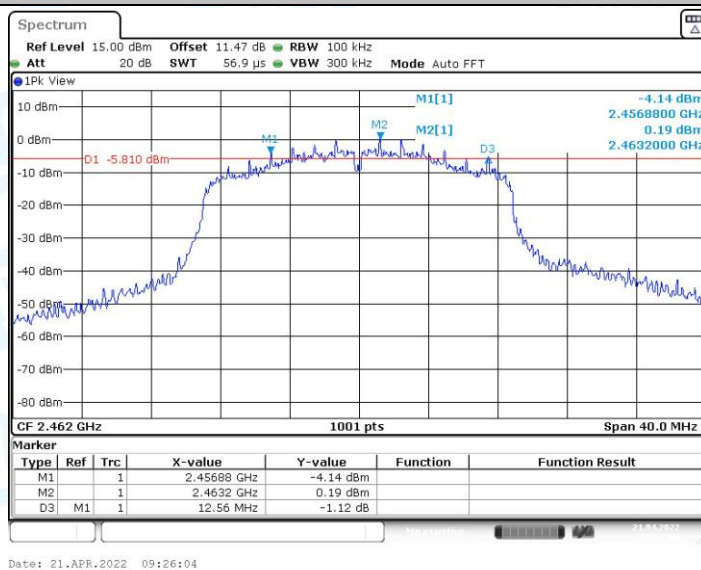
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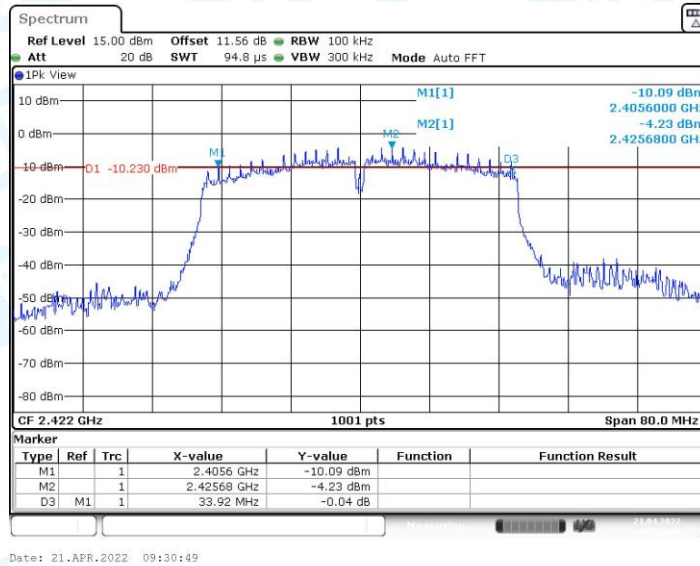
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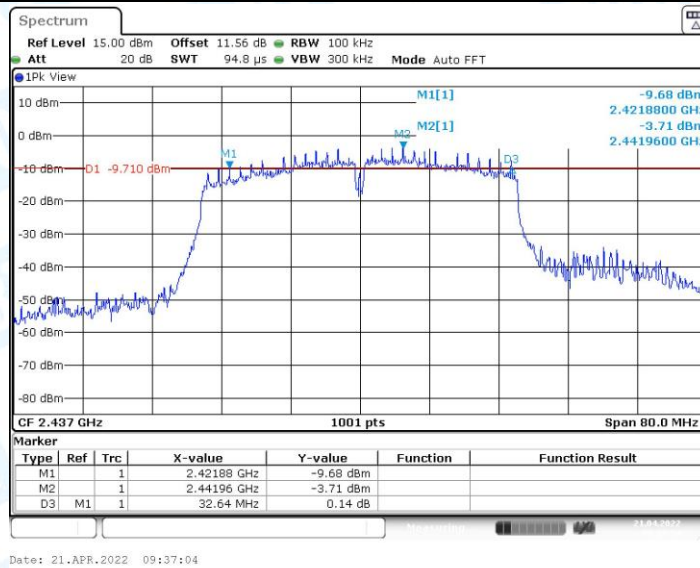
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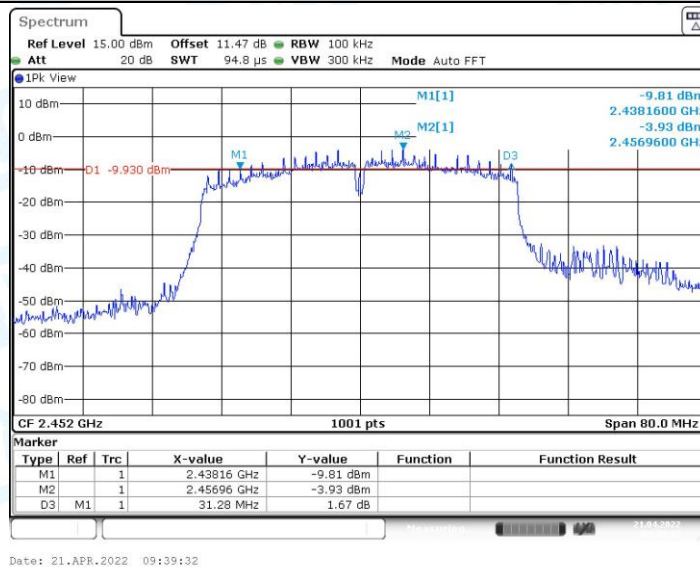
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



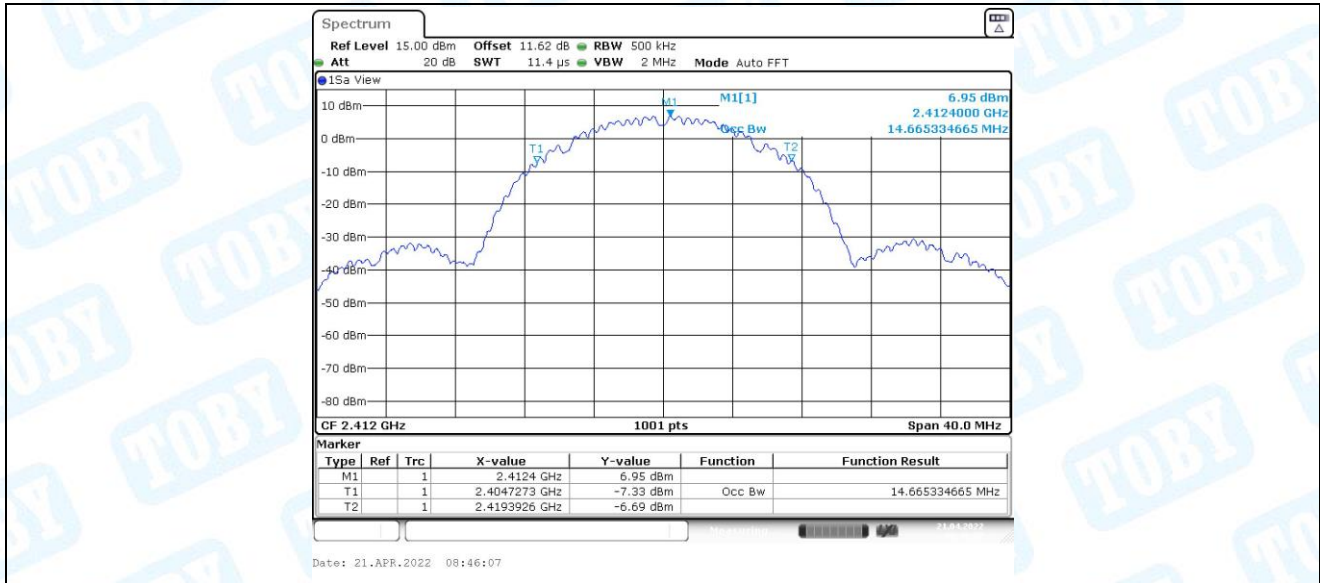
11N40SISO_Ant1_2452

2. Occupied Channel Bandwidth

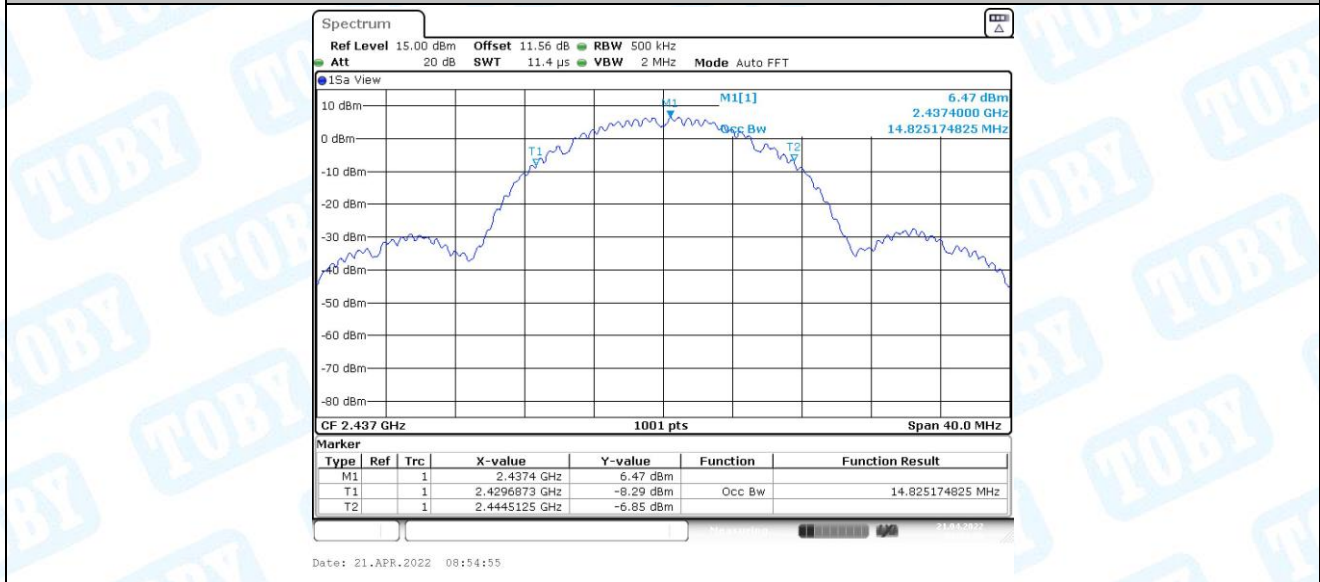
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.665	2404.727	2419.393	---	---
		2437	14.825	2429.687	2444.512	---	---
		2462	14.825	2454.727	2469.552	---	---
11G	Ant1	2412	16.224	2403.848	2420.072	---	---
		2437	16.224	2428.848	2445.072	---	---
		2462	16.264	2453.888	2470.152	---	---
11N20SISO	Ant1	2412	16.983	2403.449	2420.432	---	---
		2437	16.903	2428.568	2445.472	---	---
		2462	16.863	2453.568	2470.432	---	---
11N40SISO	Ant1	2422	35.644	2404.258	2439.902	---	---
		2437	35.964	2418.938	2454.902	---	---
		2452	35.724	2434.178	2469.902	---	---

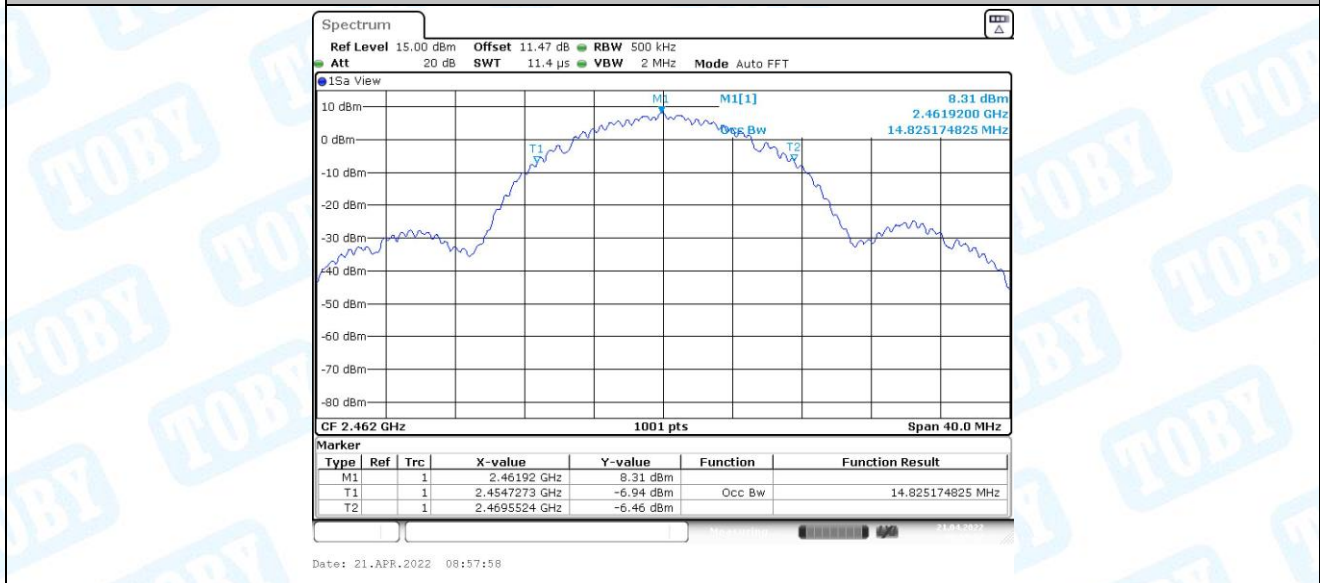
2.2. Test Graphs



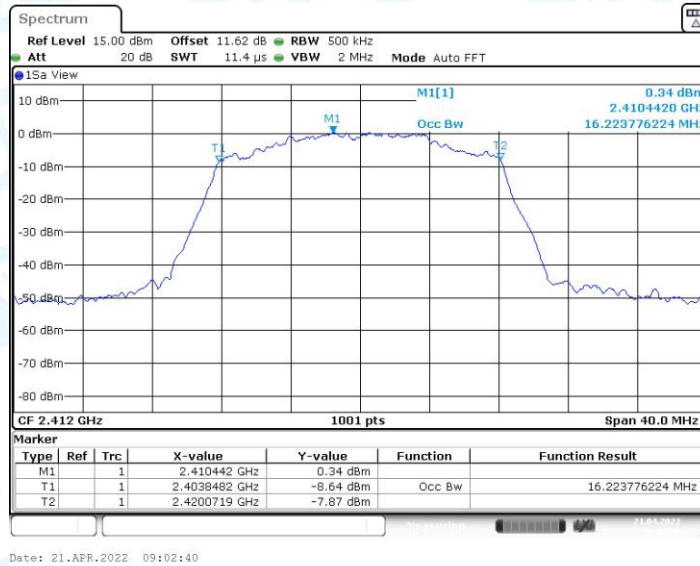
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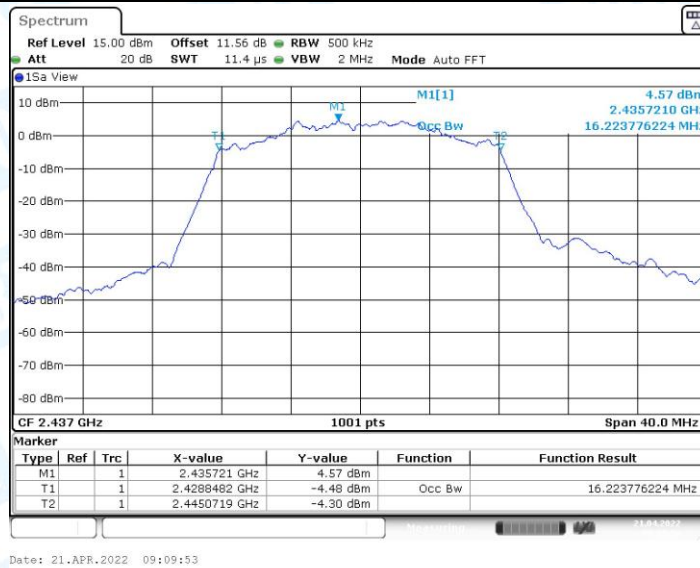
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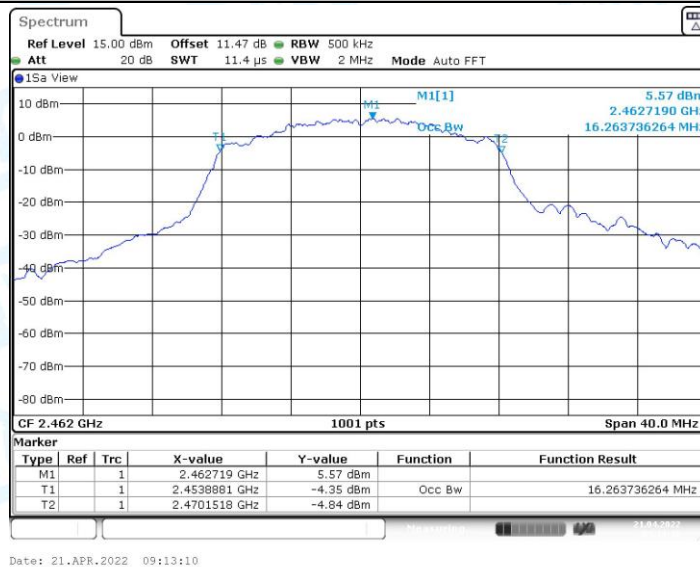
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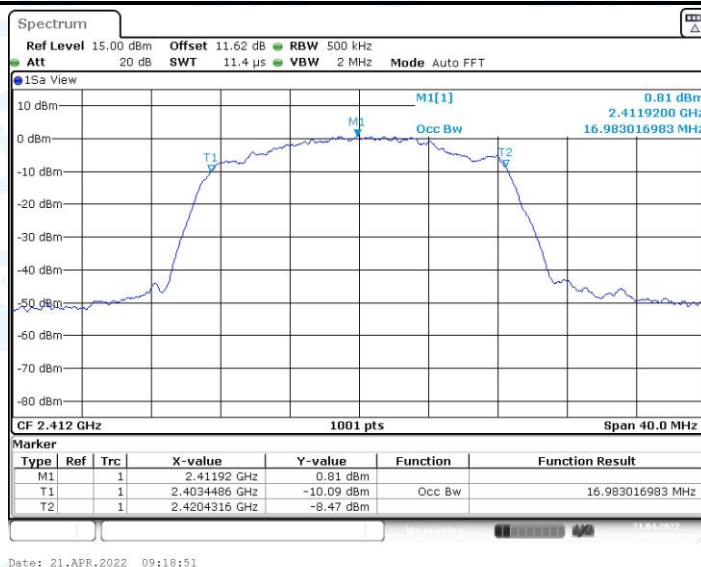
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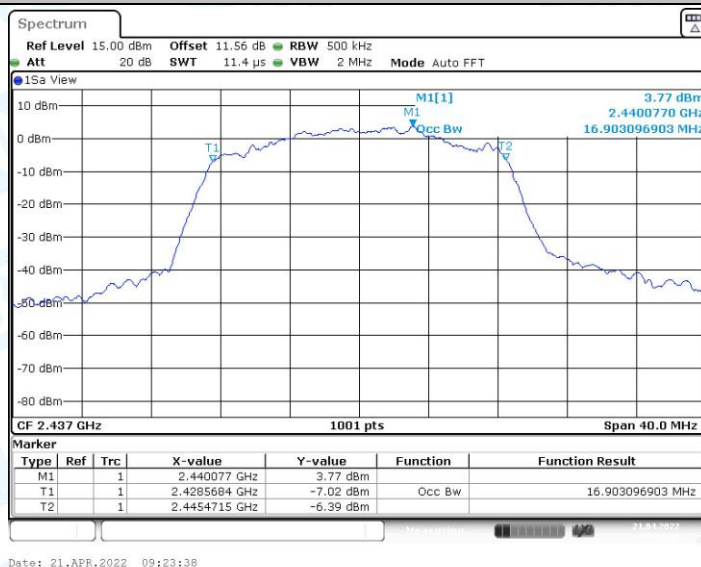
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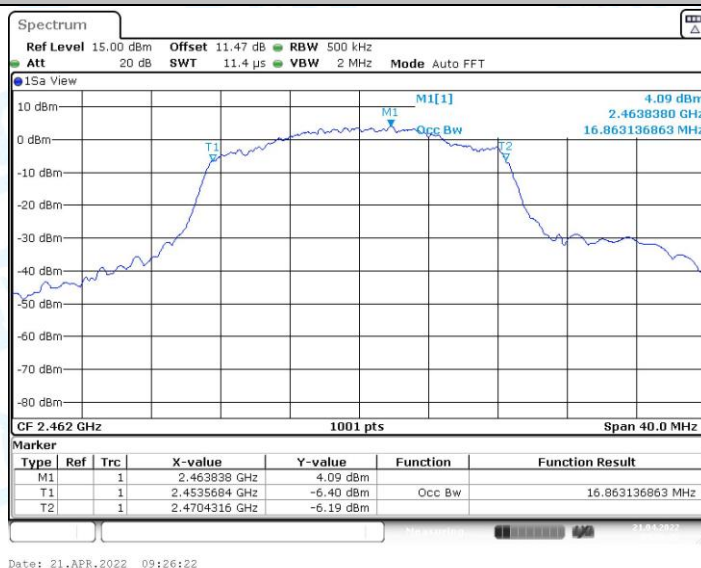
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11N20SISO_Ant1_2412



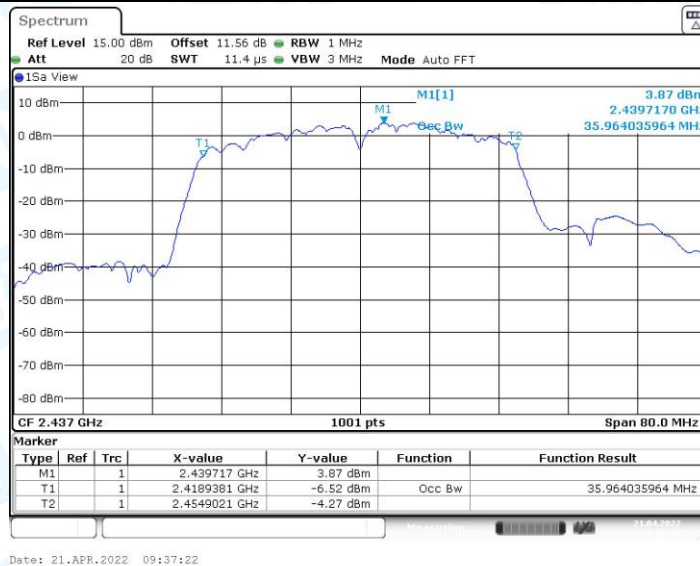
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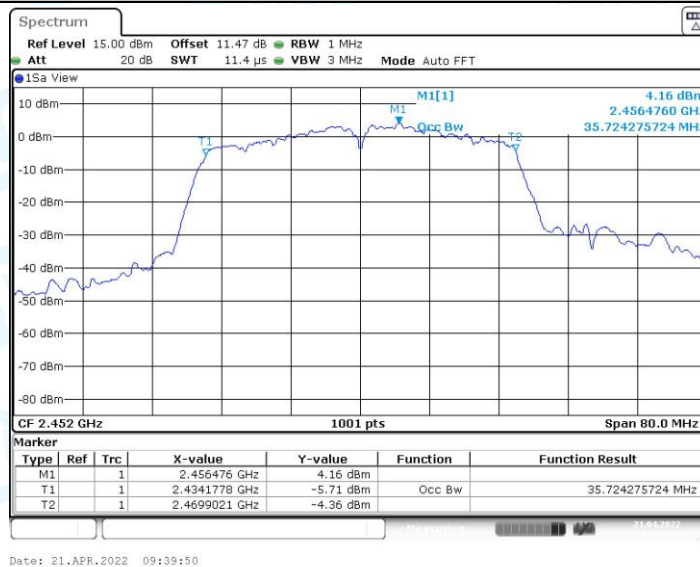
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



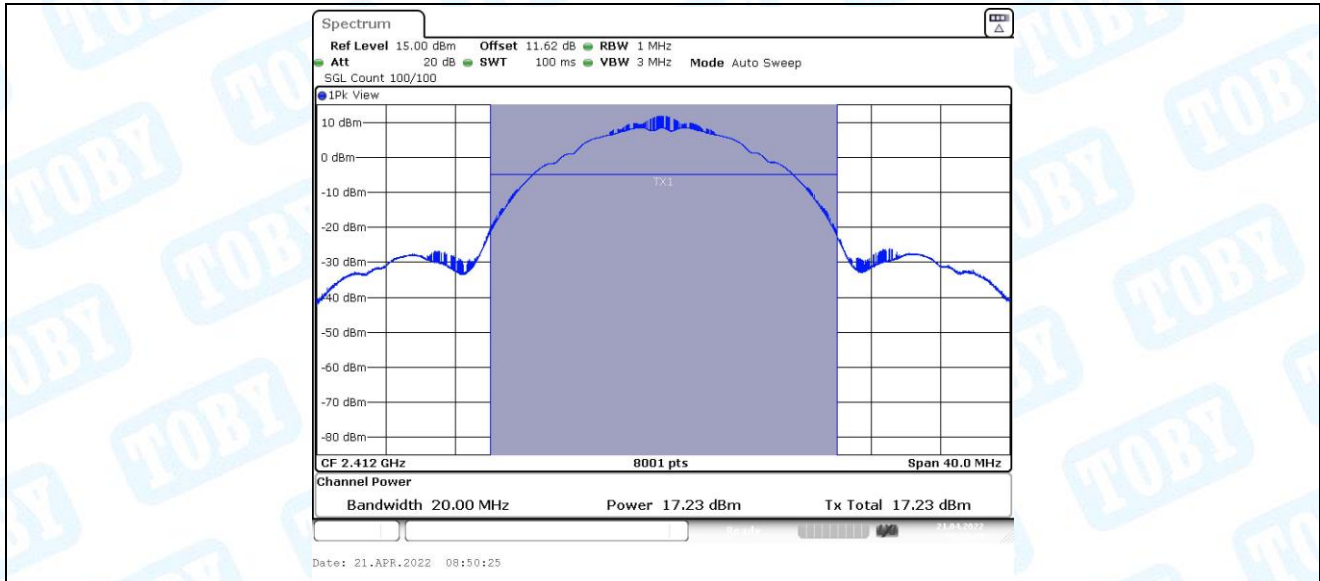
11N40SISO_Ant1_2452

3. Maximum conducted output power

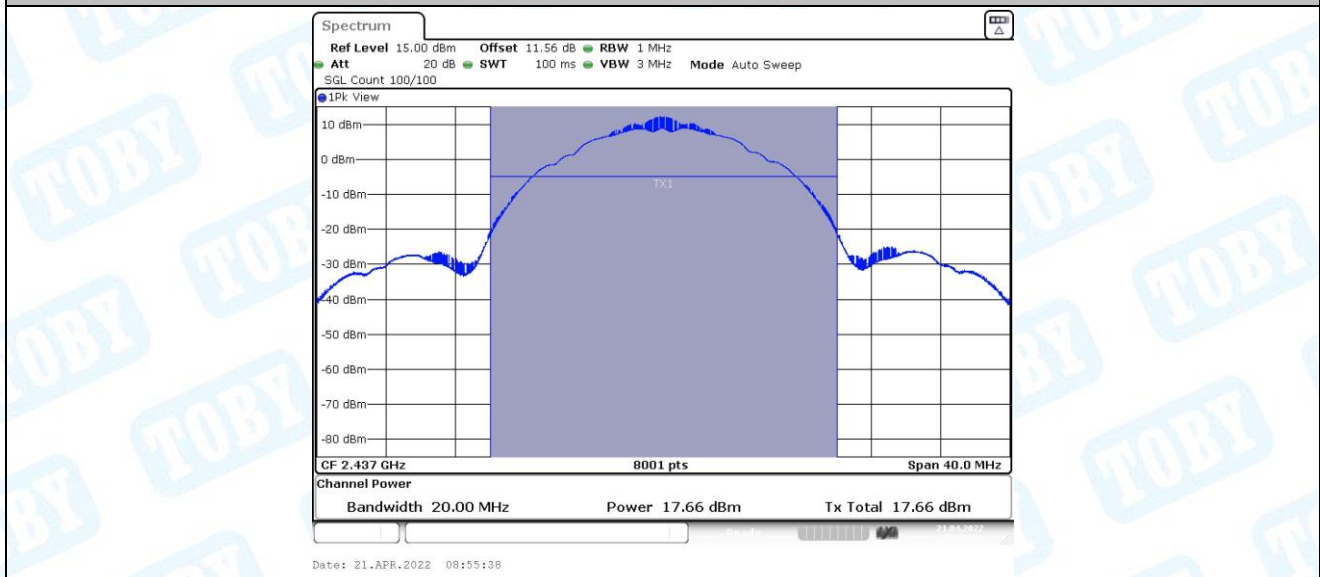
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.23	≤30.00	PASS
		2437	17.66	≤30.00	PASS
		2462	17.58	≤30.00	PASS
11G	Ant1	2412	16.33	≤30.00	PASS
		2437	17.28	≤30.00	PASS
		2462	16.65	≤30.00	PASS
11N20SISO	Ant1	2412	15.87	≤30.00	PASS
		2437	16.84	≤30.00	PASS
		2462	17.38	≤30.00	PASS
11N40SISO	Ant1	2422	16.81	≤30.00	PASS
		2437	17.18	≤30.00	PASS
		2452	16.86	≤30.00	PASS

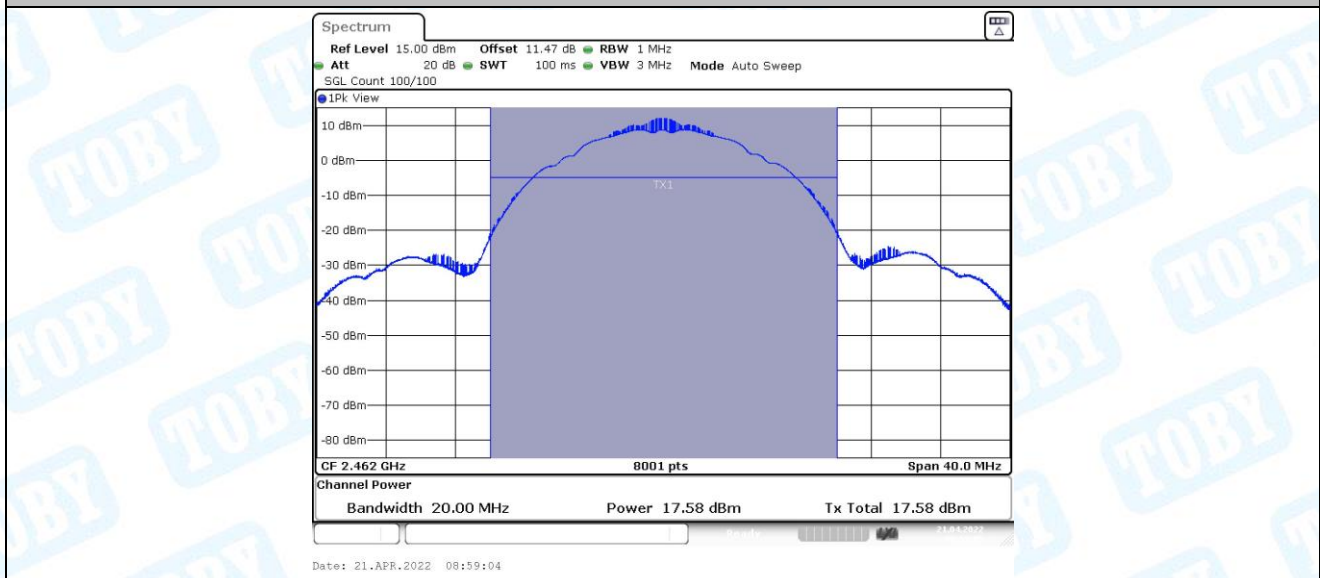
3.2. Test Graphs



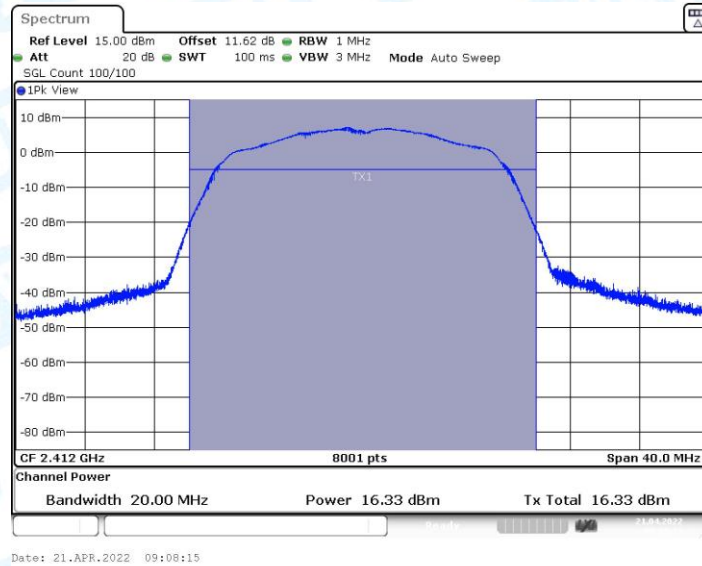
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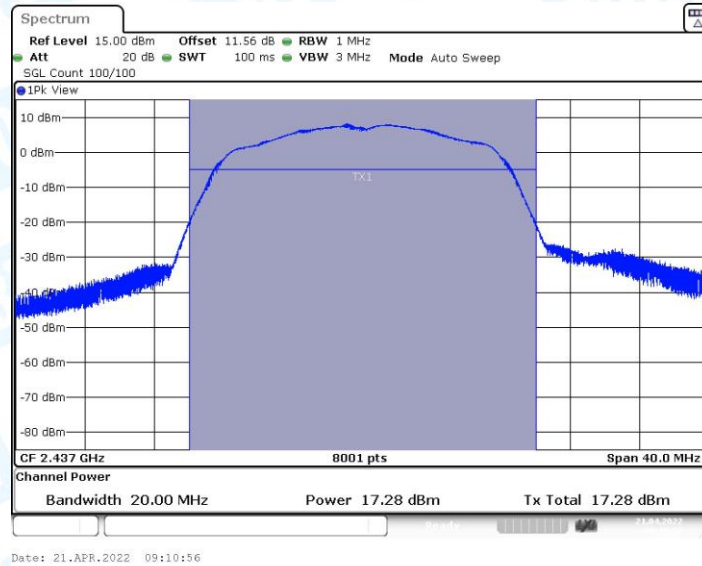
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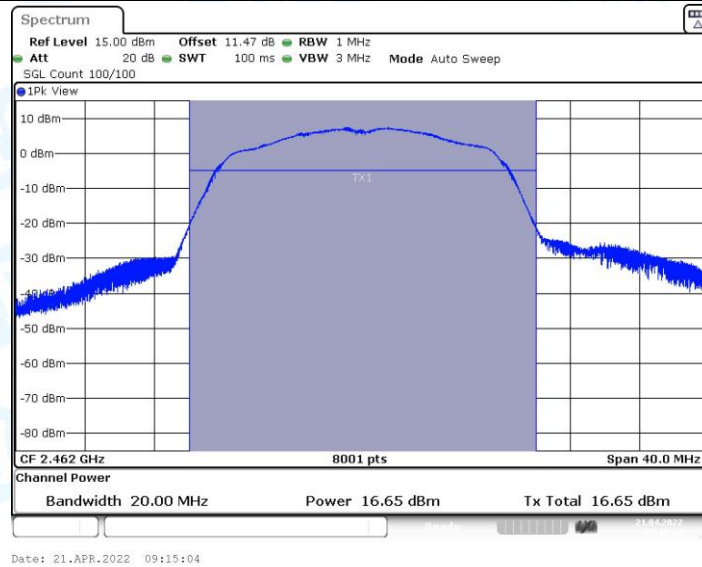
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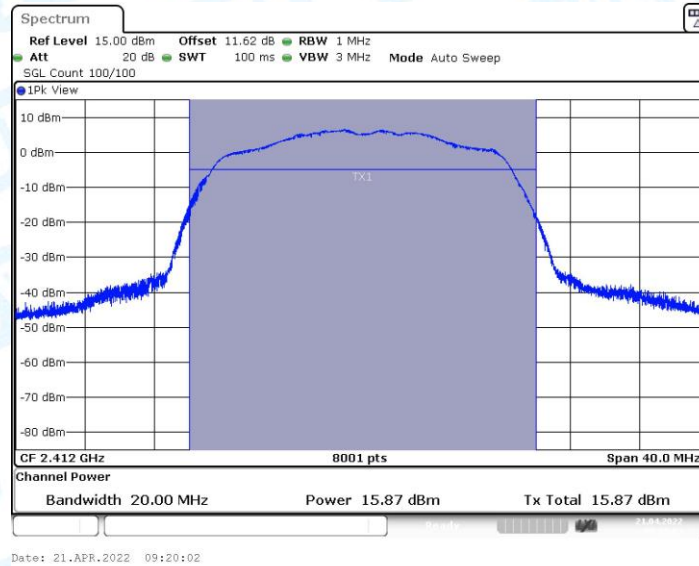
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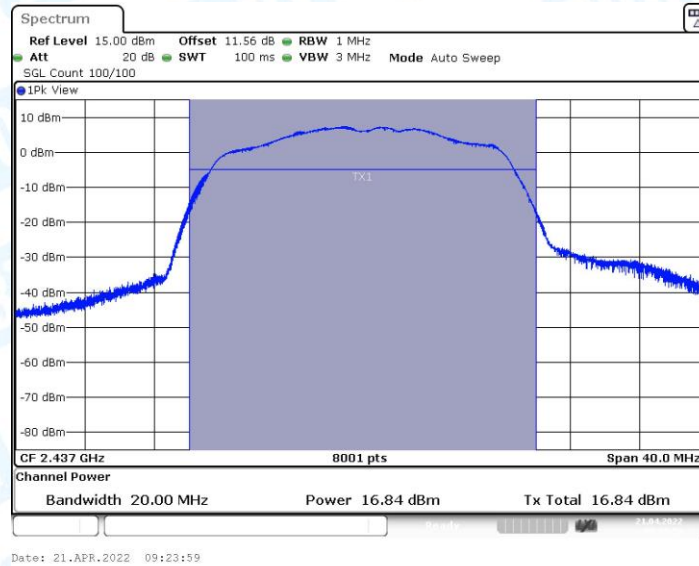
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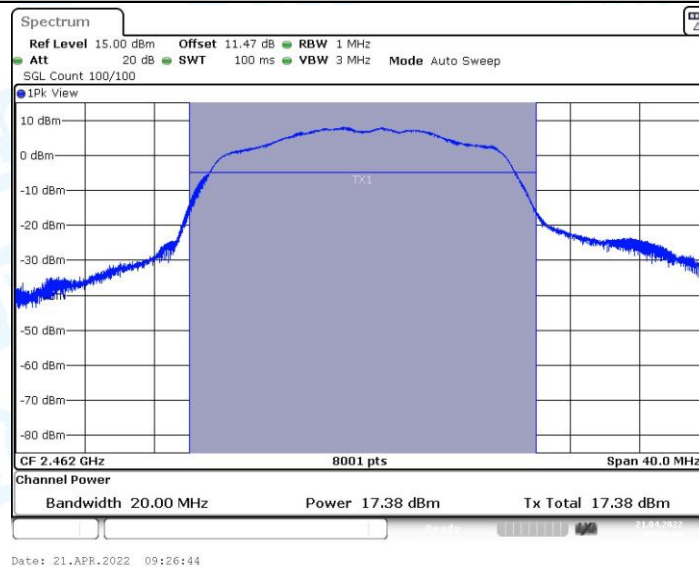
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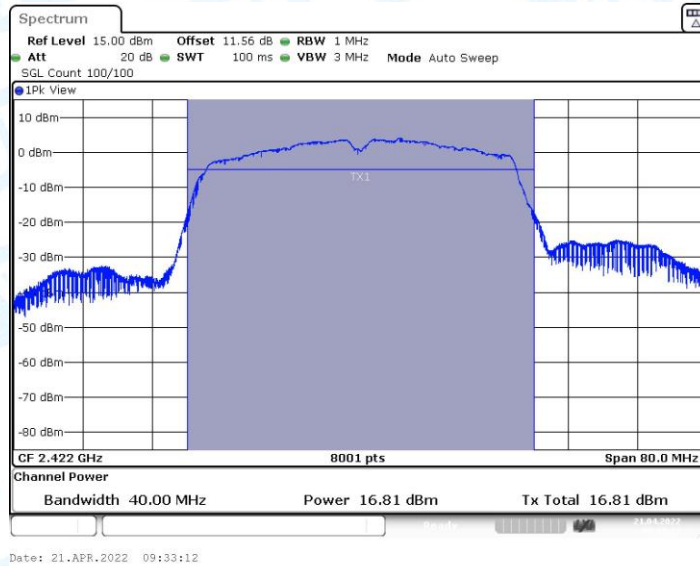
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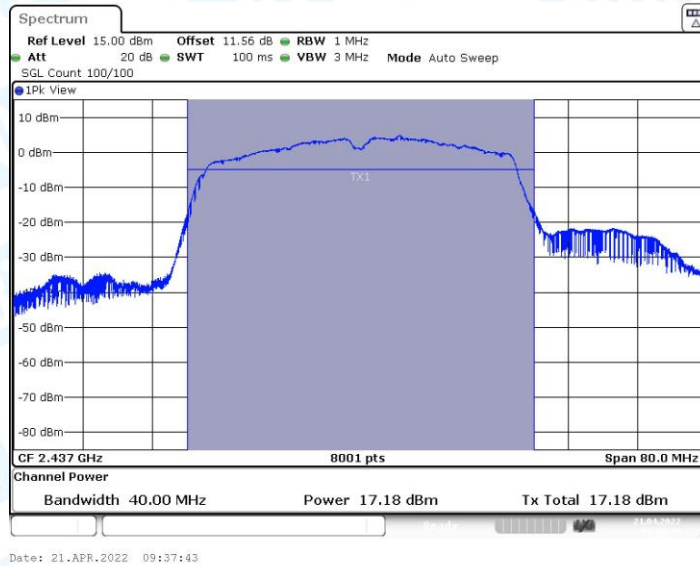
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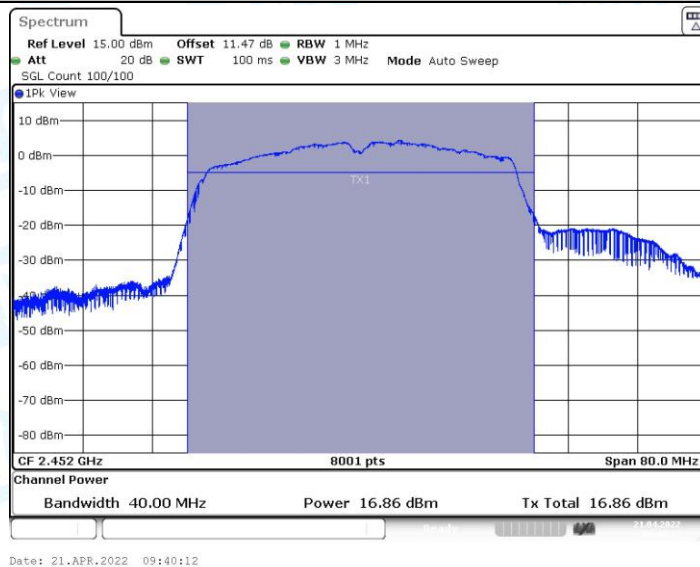
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



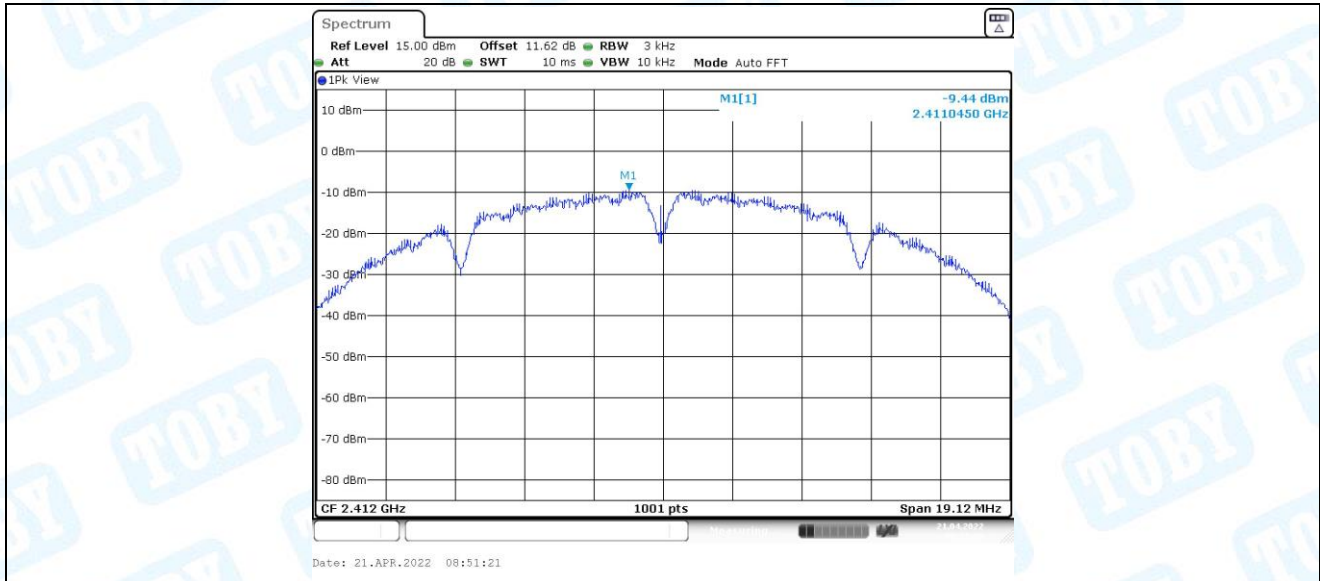
11N40SISO_Ant1_2452

4. Maximum power spectral density

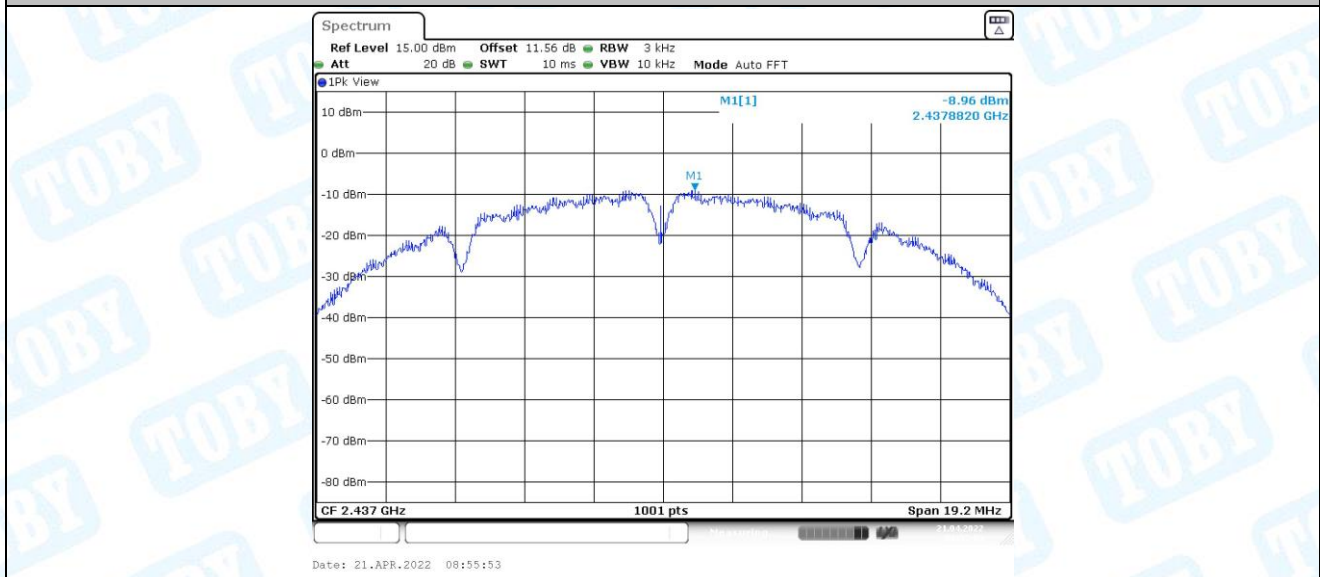
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.44	≤8.00	PASS
		2437	-8.96	≤8.00	PASS
		2462	-9.05	≤8.00	PASS
11G	Ant1	2412	-16.19	≤8.00	PASS
		2437	-15.36	≤8.00	PASS
		2462	-15.01	≤8.00	PASS
11N20SISO	Ant1	2412	-15.97	≤8.00	PASS
		2437	-14.93	≤8.00	PASS
		2462	-14.33	≤8.00	PASS
11N40SISO	Ant1	2422	-16.78	≤8.00	PASS
		2437	-16.21	≤8.00	PASS
		2452	-15.31	≤8.00	PASS

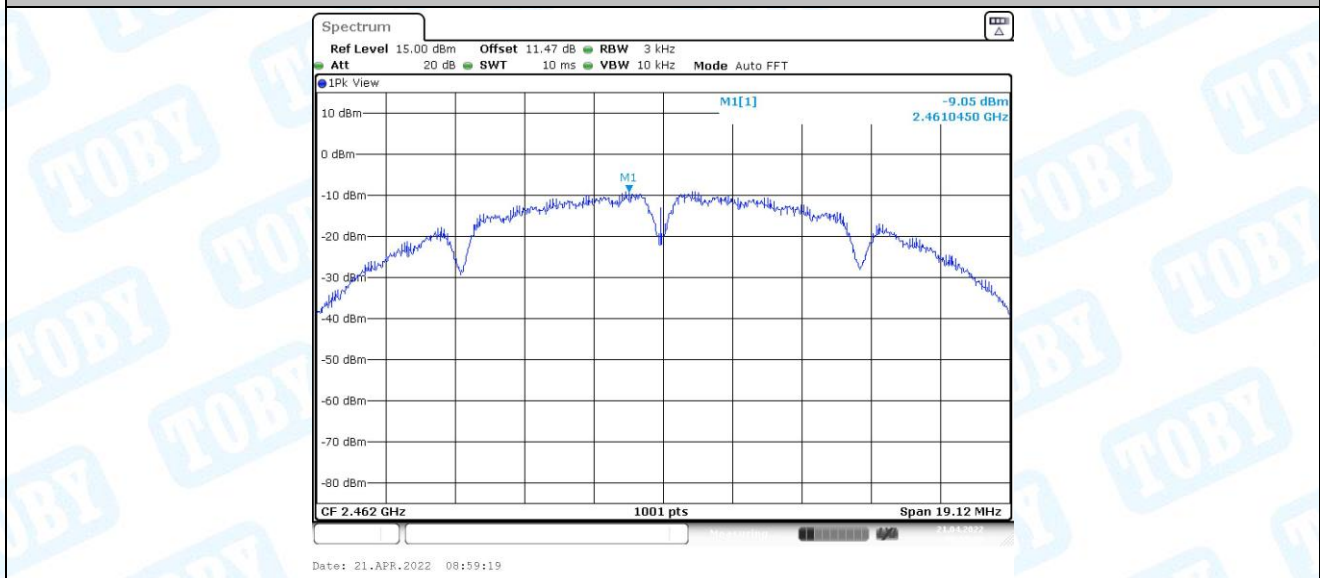
4.2. Test Graphs



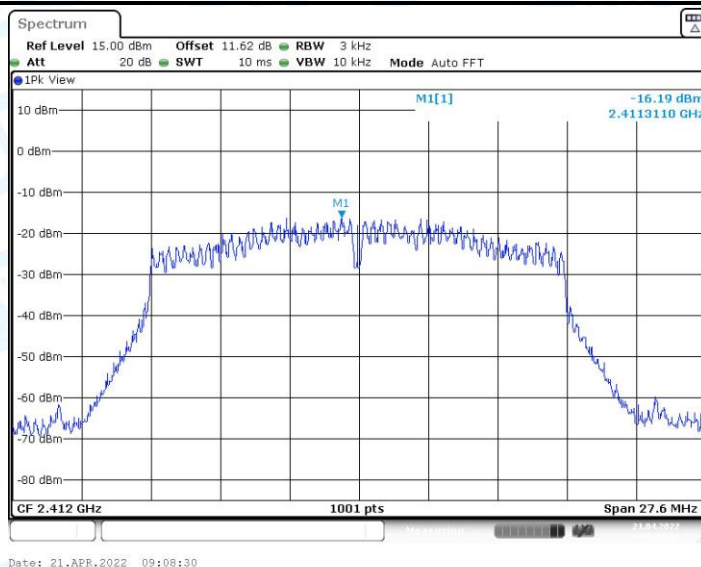
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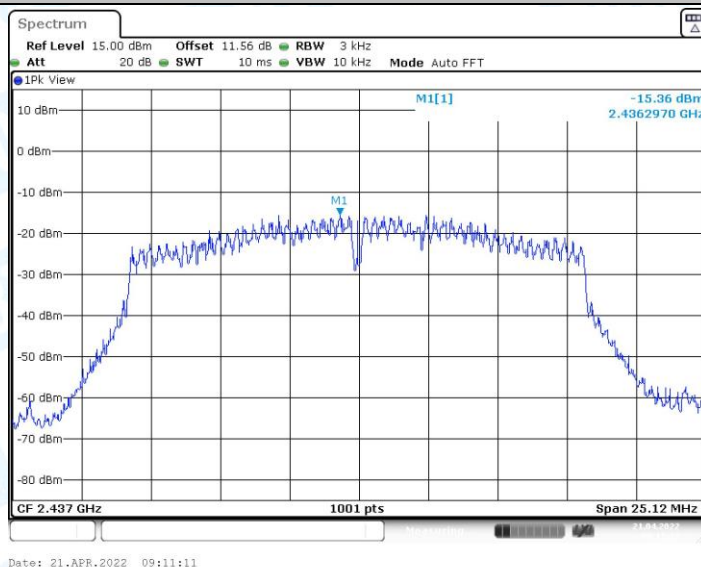
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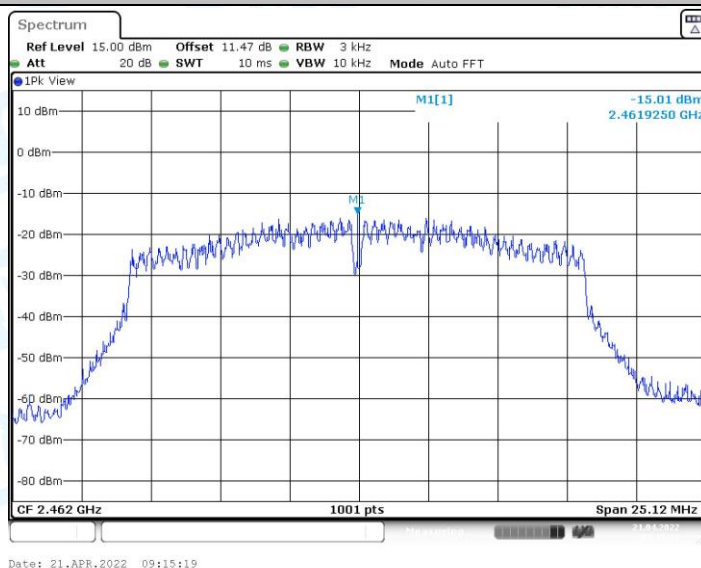
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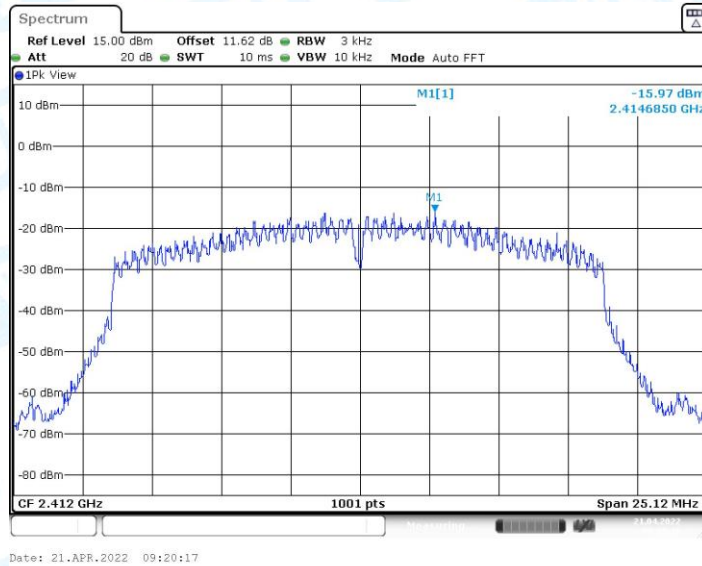
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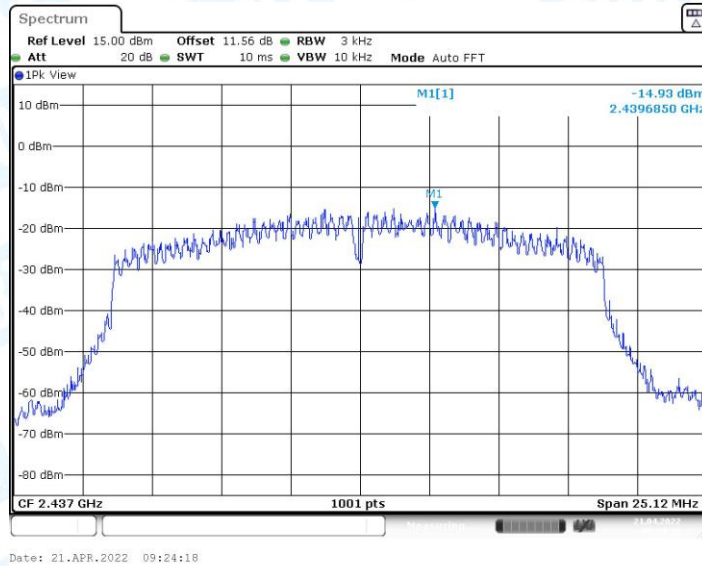
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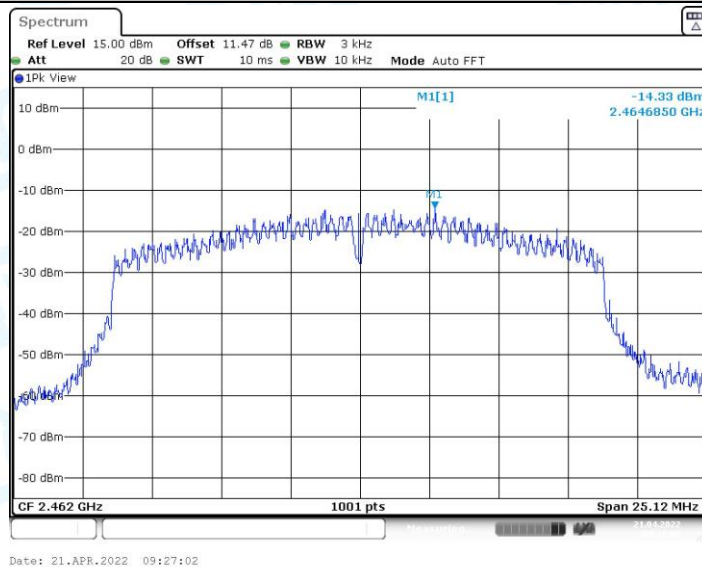
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11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462