

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

General Description of EUT	
Product Name:	Wireless monitor
Test Model:	M554
Sample ID:	20211014-10-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	Adapter: CS12N050200FUF Input: 100-240V~, 50/60Hz 500mA Output: DC 5V, 2.0A DC 3.7V by 2000mAh Rechargeable Li-ion Battery
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TB-FCC184798	

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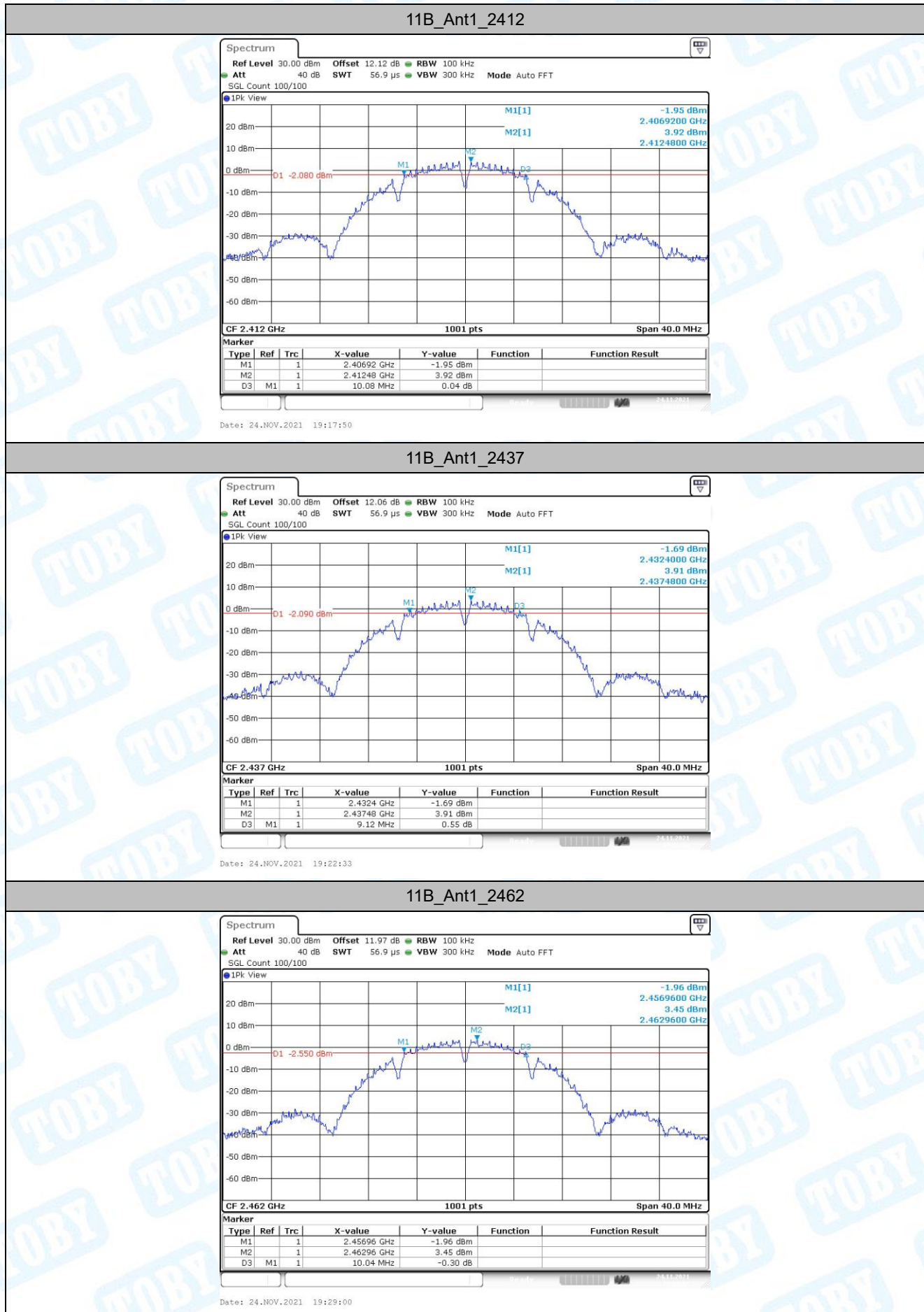
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1. DTS Bandwidth

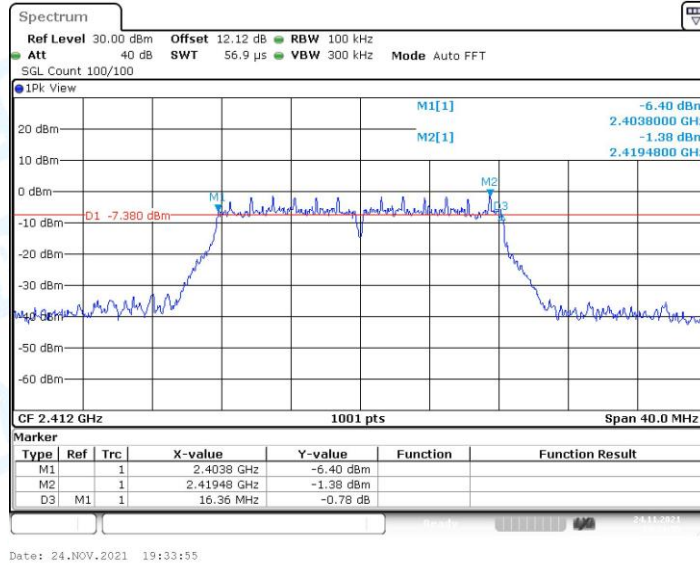
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.08	2406.92	2417.00	0.5	PASS
		2437	9.12	2432.40	2441.52	0.5	PASS
		2462	10.04	2456.96	2467.00	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
		2437	16.52	2428.72	2445.24	0.5	PASS
		2462	16.48	2453.76	2470.24	0.5	PASS

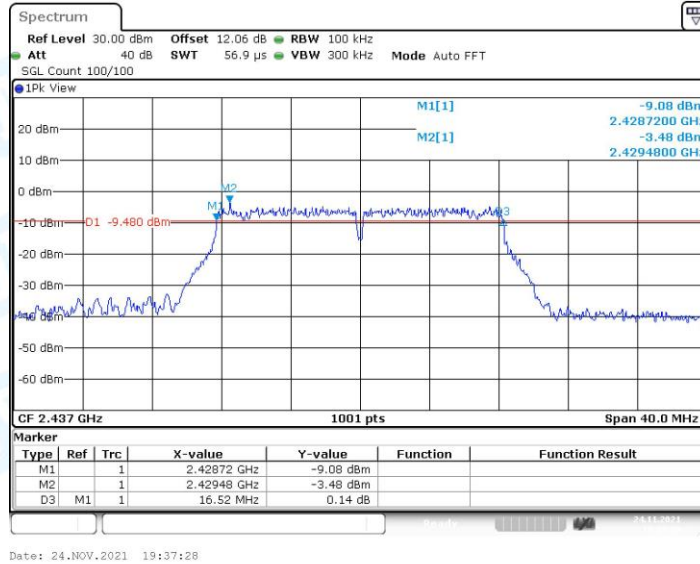
1.2. Test Graphs



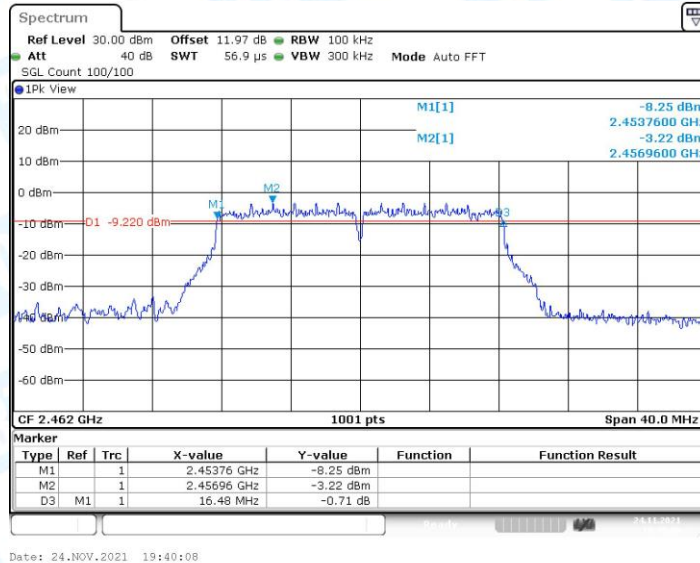
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462

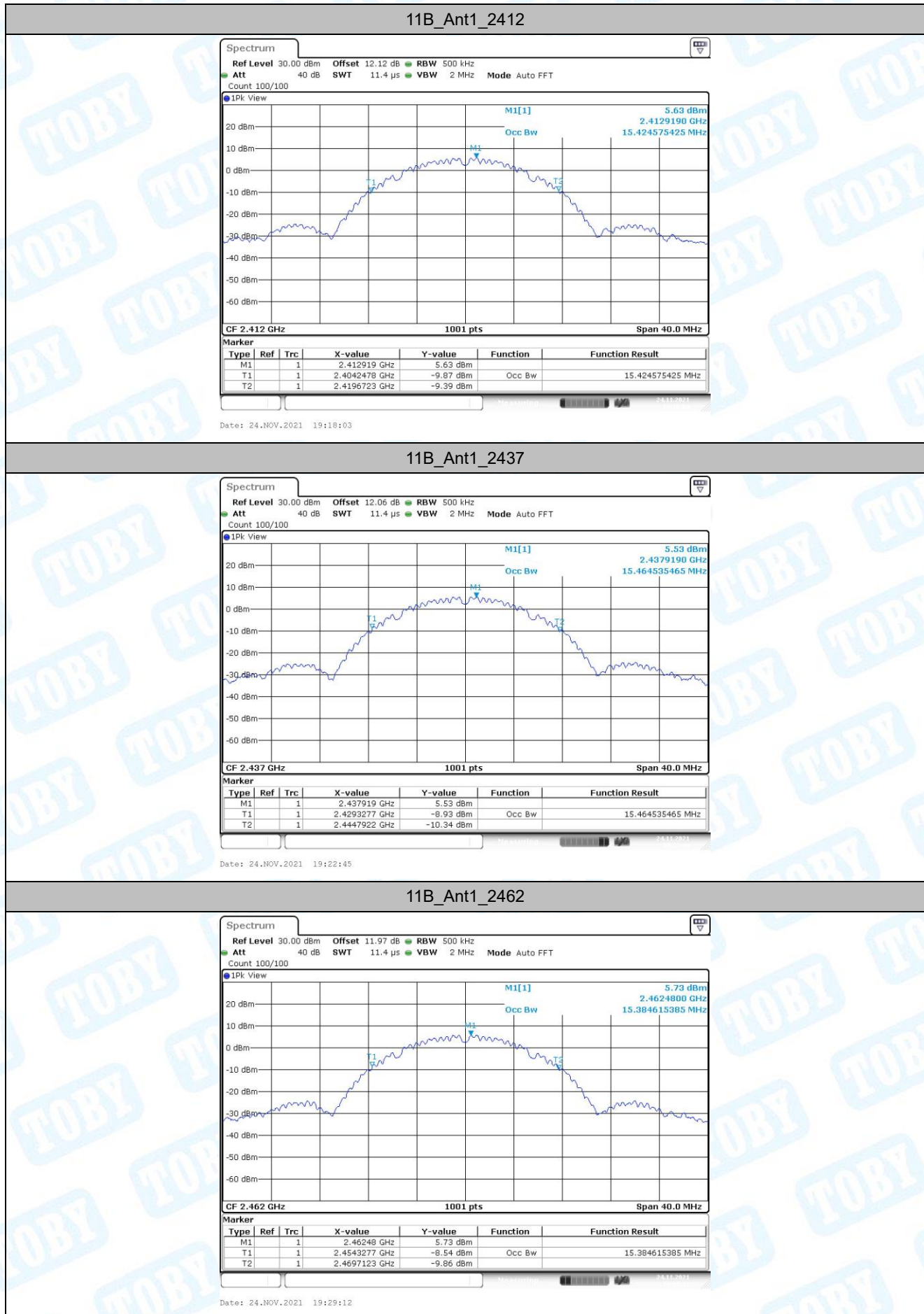


2. Occupied Channel Bandwidth

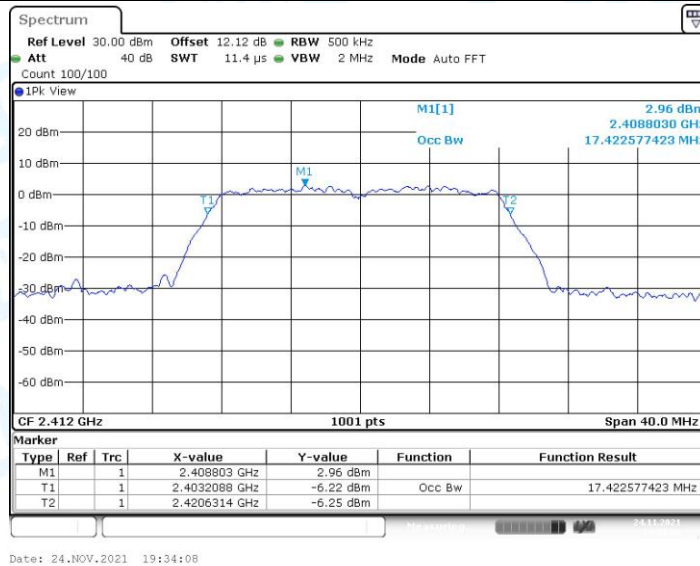
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.425	2404.248	2419.672	---	PASS
		2437	15.465	2429.328	2444.792	---	PASS
		2462	15.385	2454.328	2469.712	---	PASS
11G	Ant1	2412	17.423	2403.209	2420.631	---	PASS
		2437	17.383	2428.369	2445.751	---	PASS
		2462	17.343	2453.329	2470.671	---	PASS

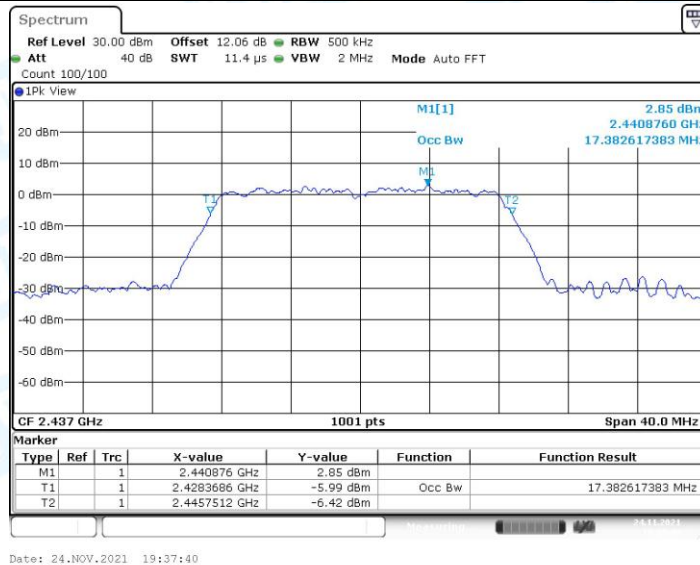
2.2. Test Graphs



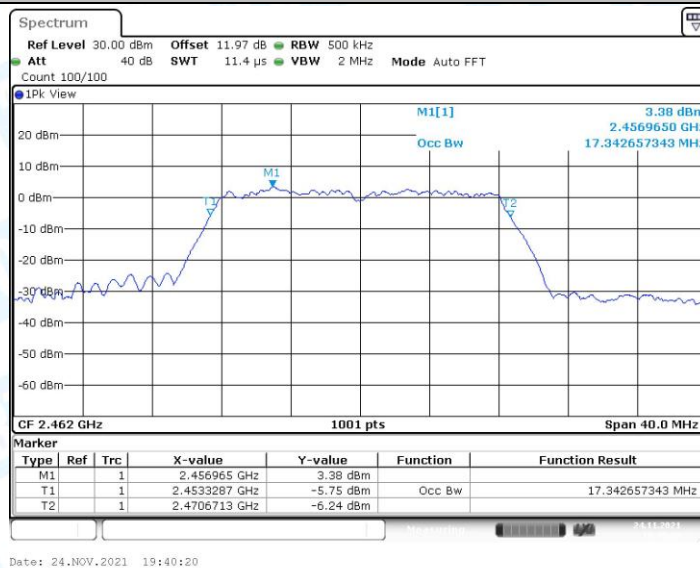
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



3. Maximum conducted output power

3.1. Test Result

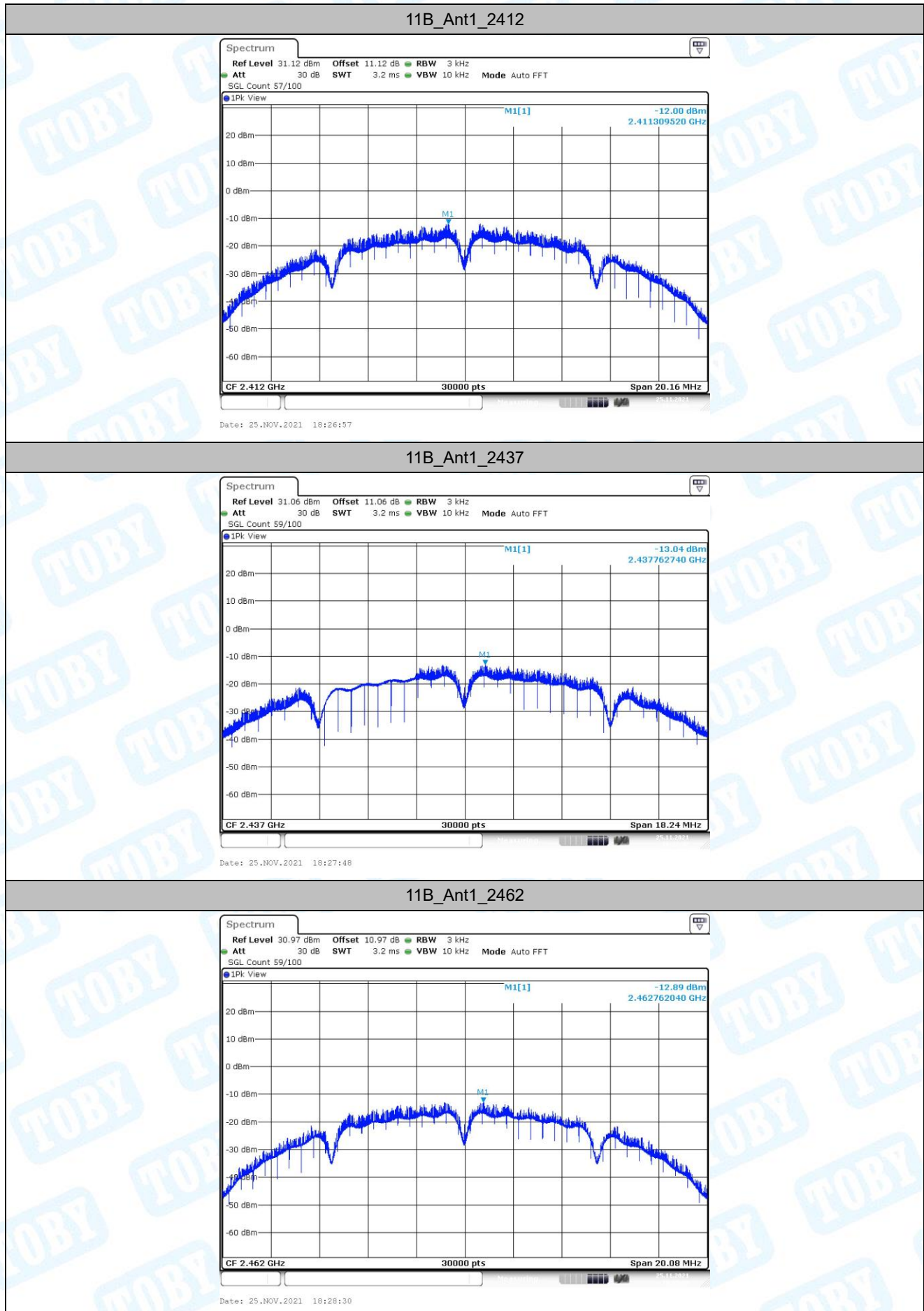
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.20	≤30	PASS
		2437	17.23	≤30	PASS
		2462	17.50	≤30	PASS
11G	Ant1	2412	17.63	≤30	PASS
		2437	17.43	≤30	PASS
		2462	17.64	≤30	PASS

4. Maximum power spectral density

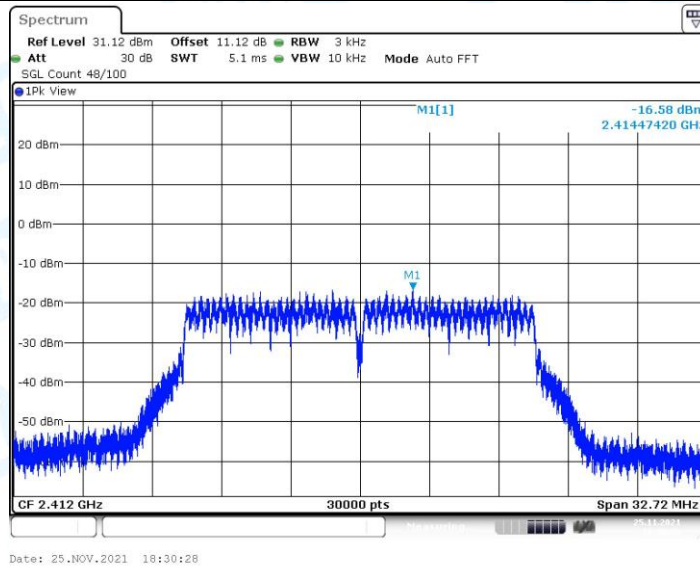
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.00	≤8	PASS
		2437	-13.04	≤8	PASS
		2462	-12.89	≤8	PASS
11G	Ant1	2412	-16.58	≤8	PASS
		2437	-15.76	≤8	PASS
		2462	-16.57	≤8	PASS

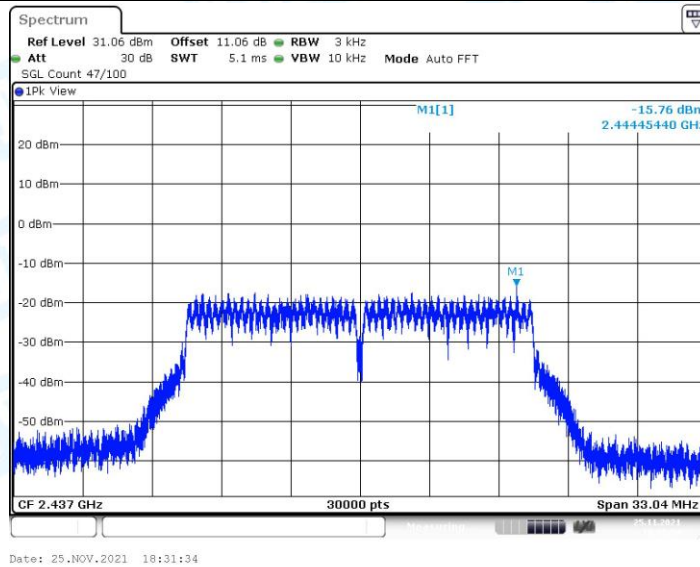
4.2. Test Graphs



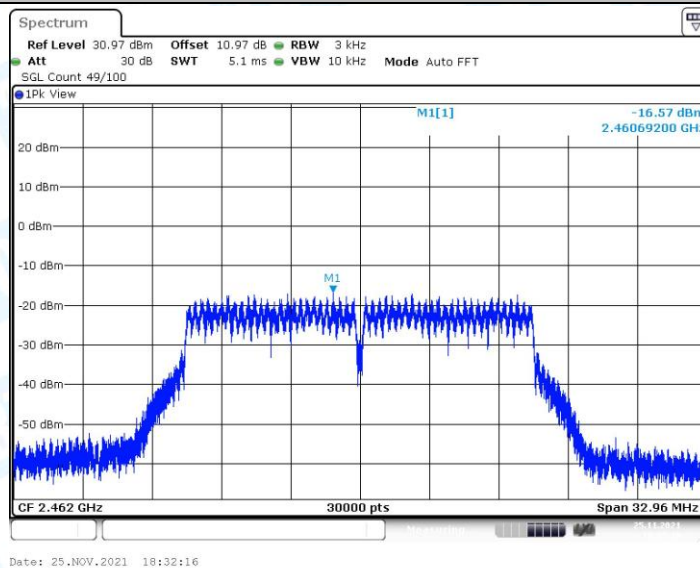
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



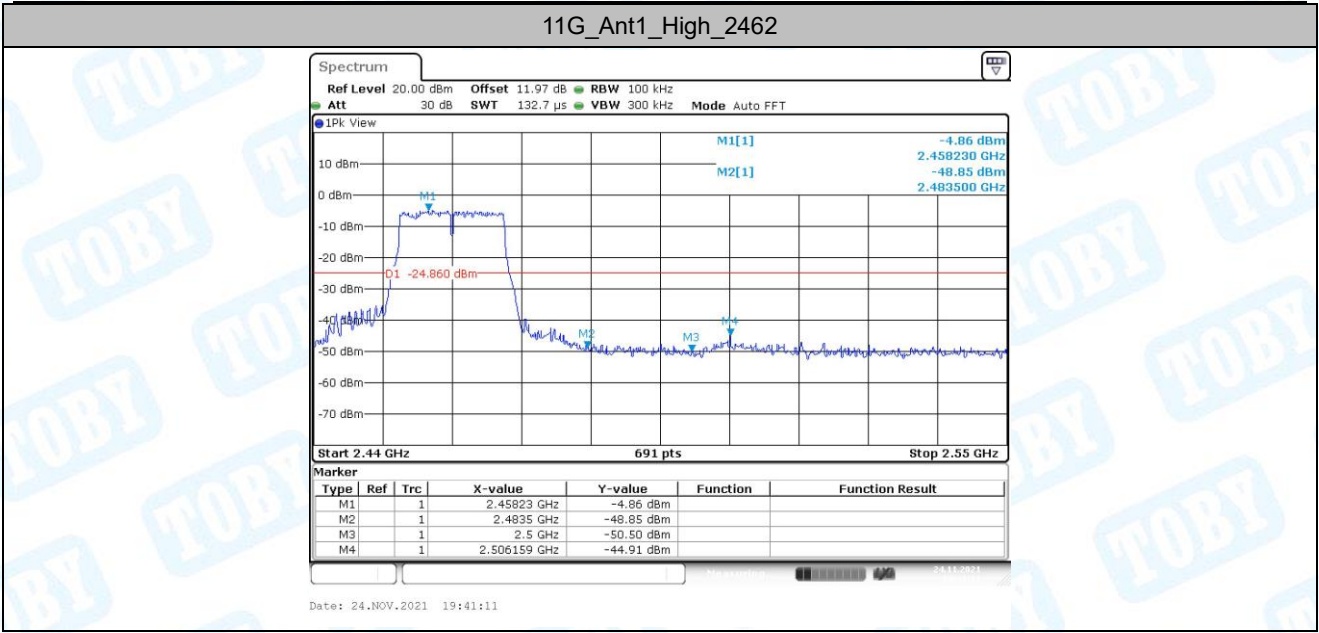
5. Band edge measurements

5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.18	-29.64	≤ -16.82	PASS
		High	2462	3.69	-46.26	≤ -16.31	PASS
11G	Ant1	Low	2412	-2.45	-35.57	≤ -22.45	PASS
		High	2462	-4.86	-44.91	≤ -24.86	PASS

5.2. Test Graphs



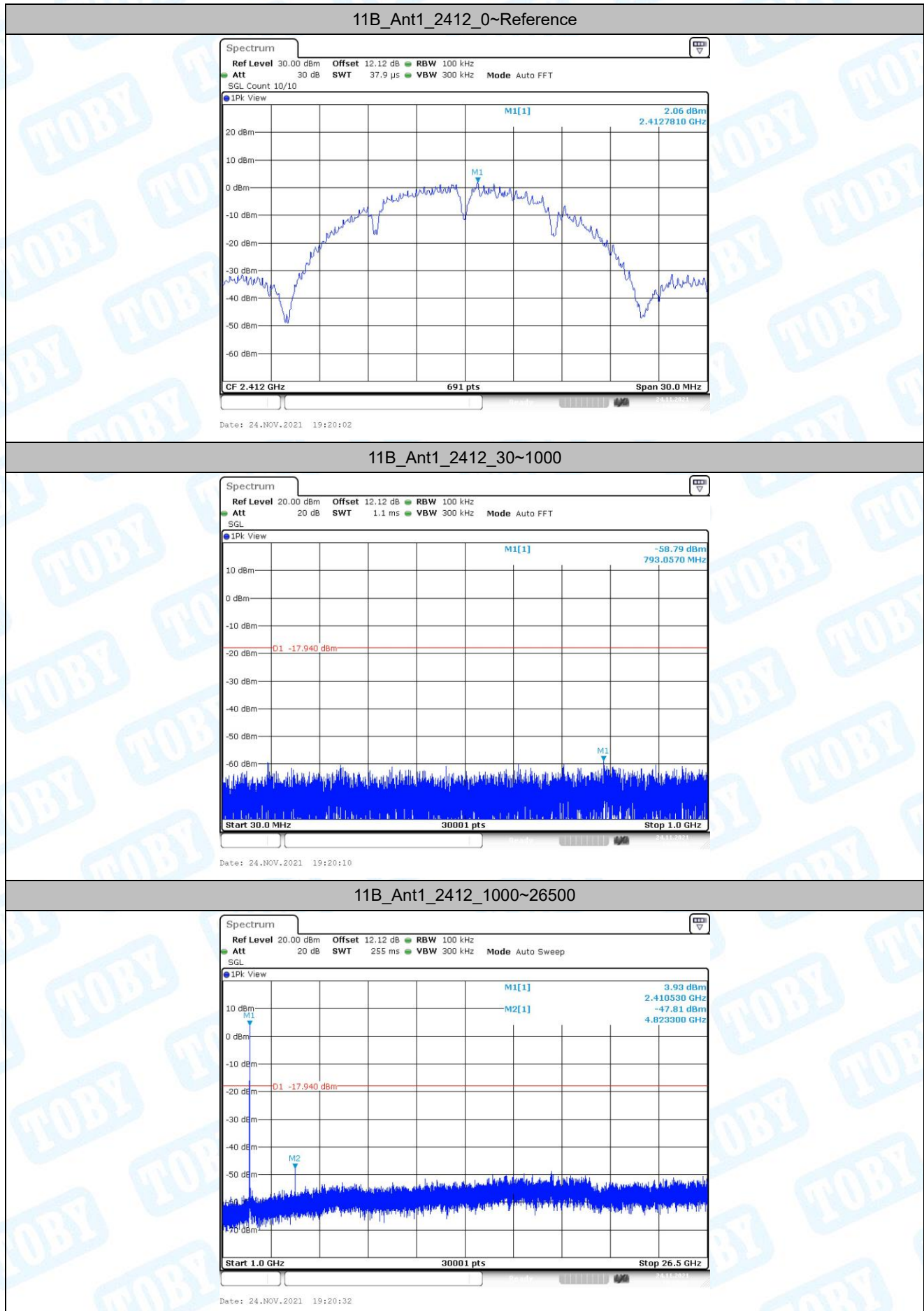


6. Conducted Spurious Emission

6.1. Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-58.79	≤ -17.94	PASS
			1000~26500	2.06	-47.81	≤ -17.94	PASS
		2437	Reference	2.17	2.17	---	PASS
			30~1000	2.17	-57.13	≤ -17.83	PASS
			1000~26500	2.17	-49.79	≤ -17.83	PASS
		2462	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-60.25	≤ -16.92	PASS
			1000~26500	3.08	-49.69	≤ -16.92	PASS
11G	Ant1	2412	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-60.46	≤ -24.67	PASS
			1000~26500	-4.67	-48.28	≤ -24.67	PASS
		2437	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-59.64	≤ -25.37	PASS
			1000~26500	-5.37	-49.8	≤ -25.37	PASS
		2462	Reference	-4.51	-4.51	---	PASS
			30~1000	-4.51	-59.32	≤ -24.51	PASS
			1000~26500	-4.51	-49.51	≤ -24.51	PASS

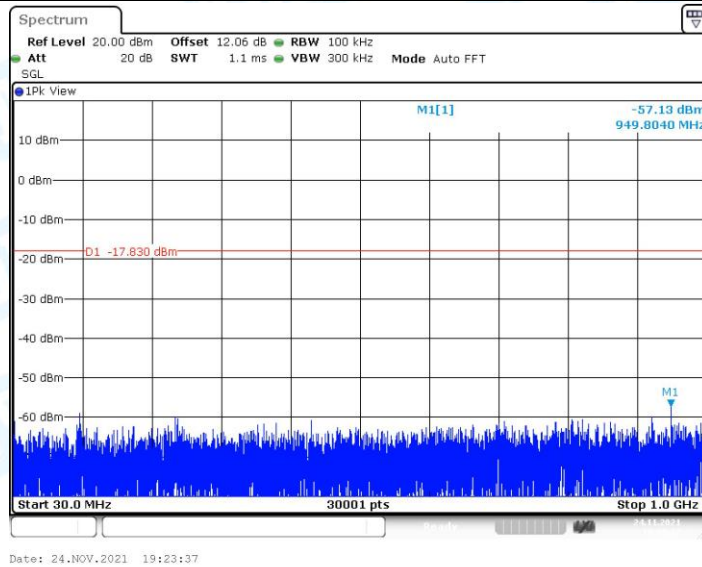
6.2.Test Graphs



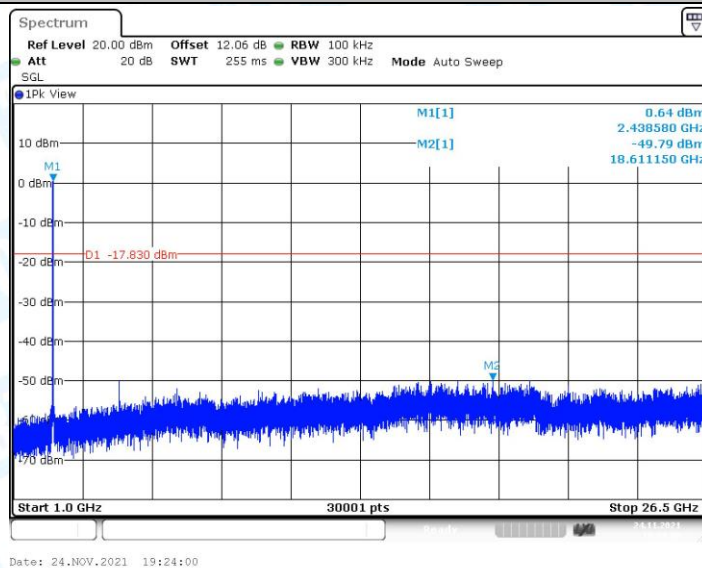
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



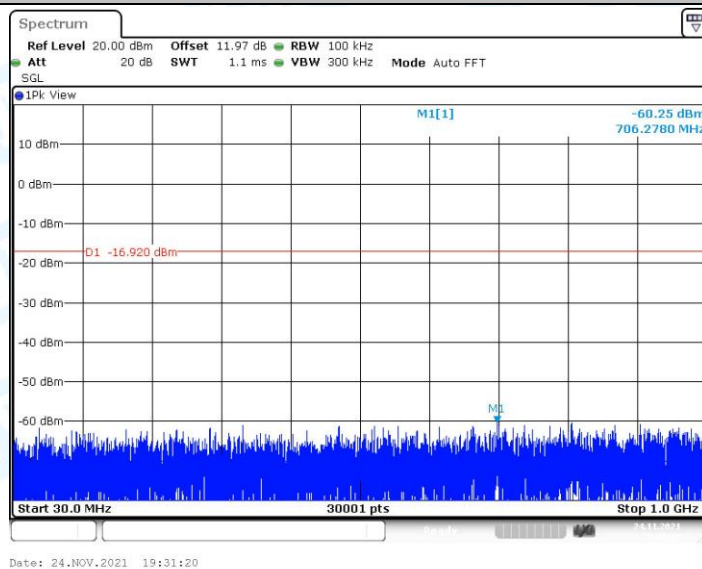
11B_Ant1_2437_1000~26500



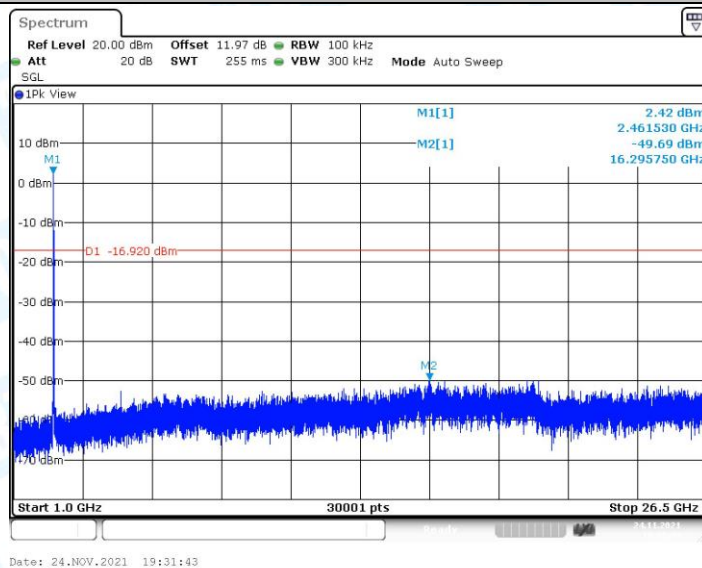
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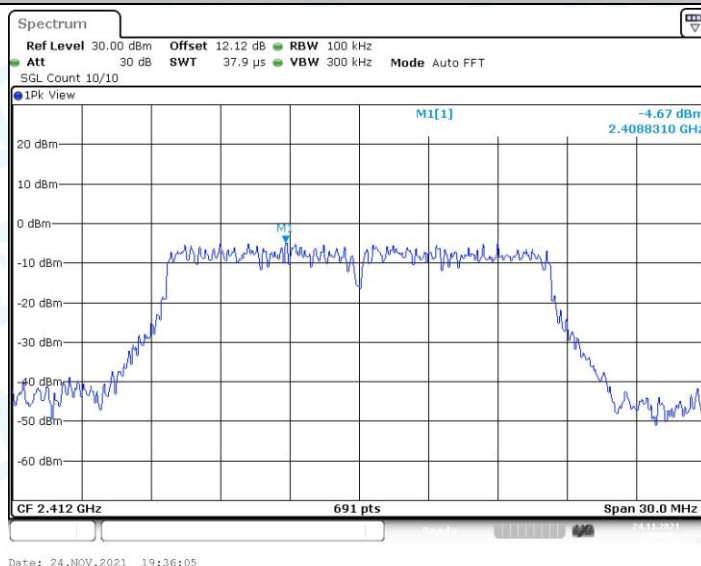
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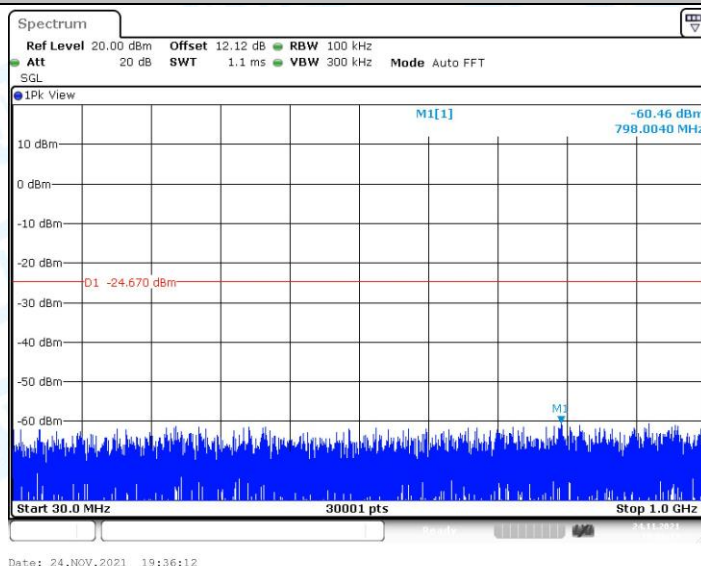
11B_Ant1_2462_1000~26500



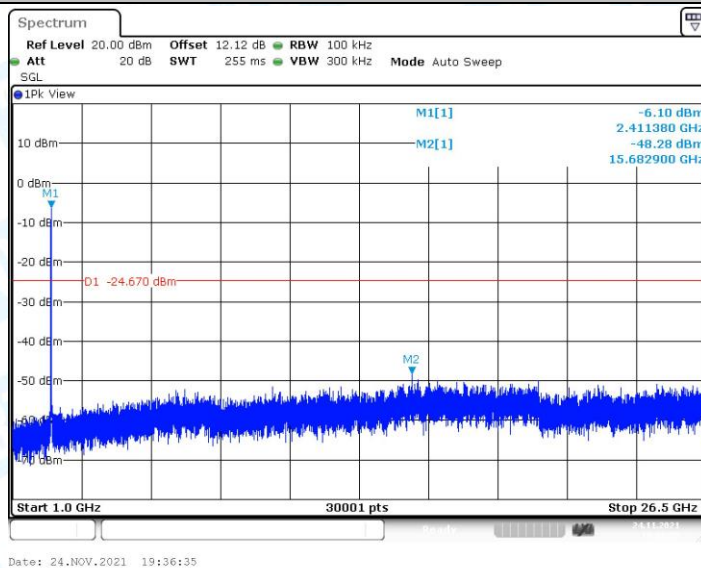
11G_Ant1_2412_0~Reference



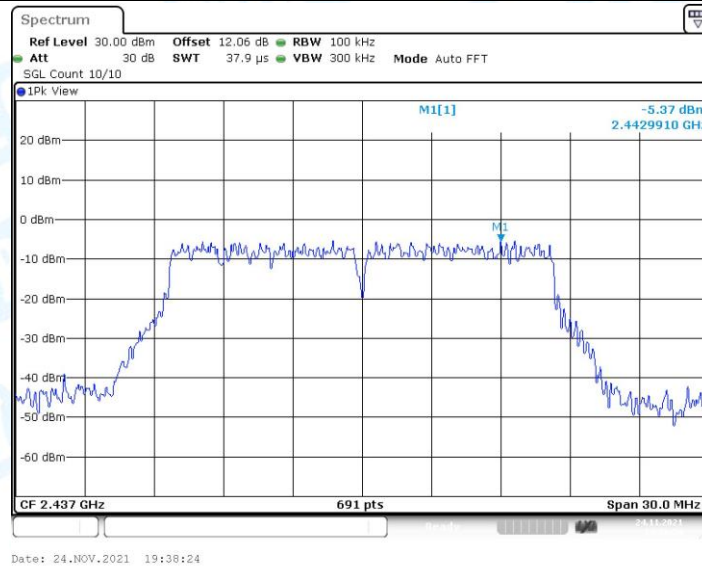
11G_Ant1_2412_30~1000



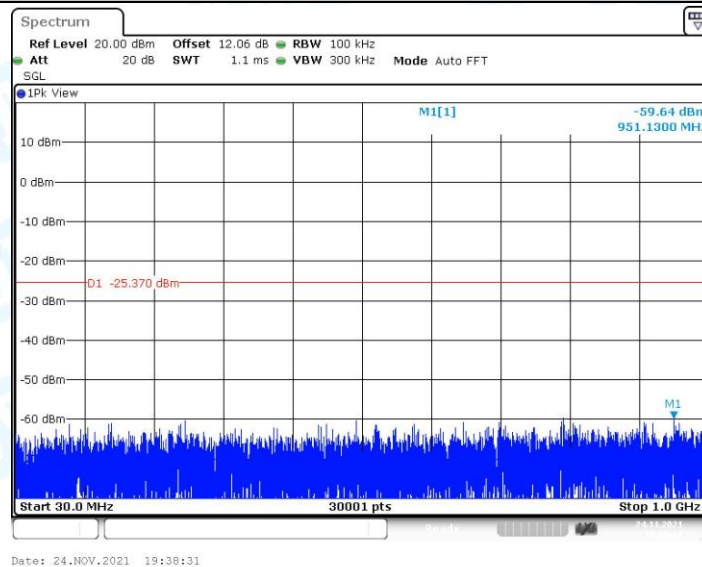
11G_Ant1_2412_1000~26500



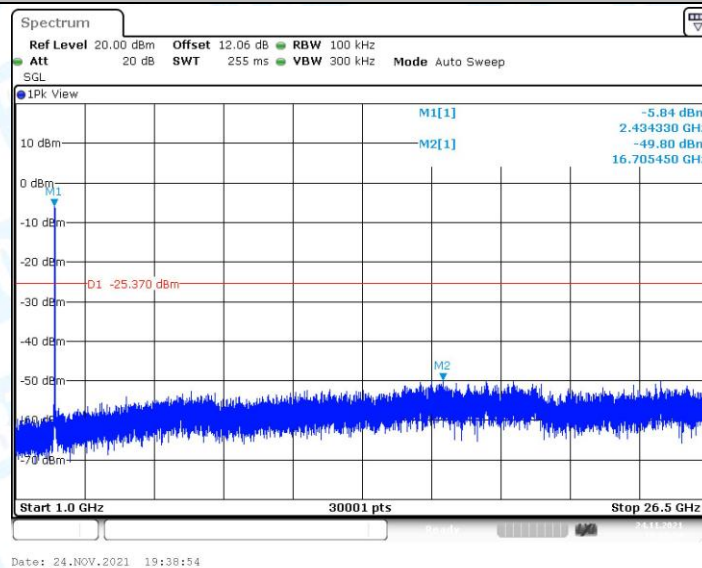
11G_Ant1_2437_0~Reference



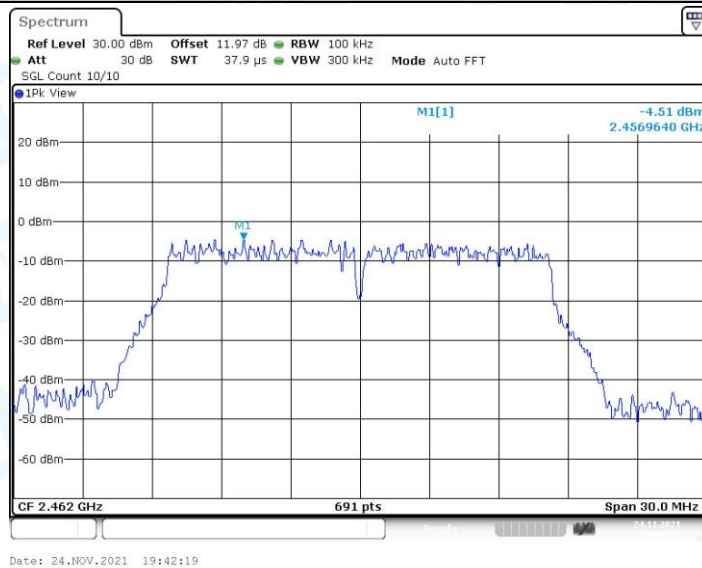
11G_Ant1_2437_30~1000



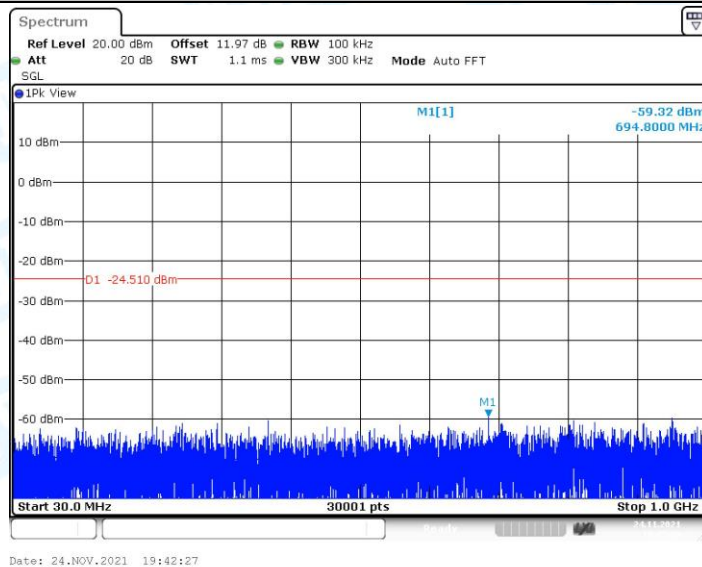
11G_Ant1_2437_1000~26500



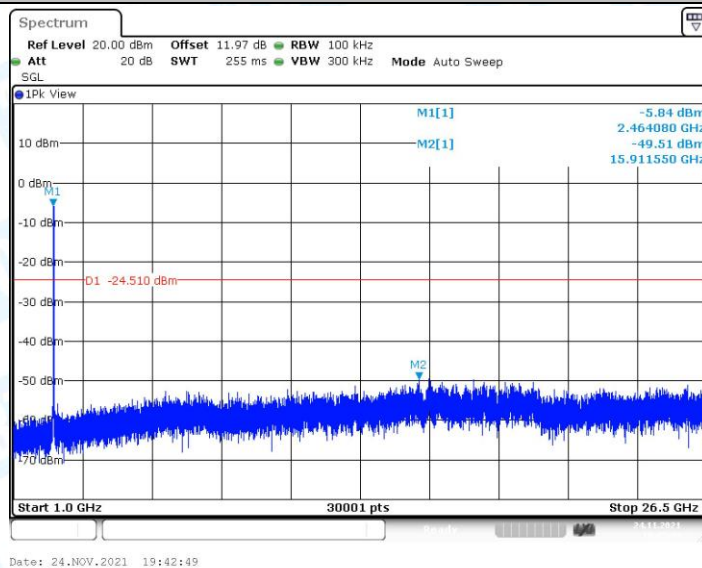
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

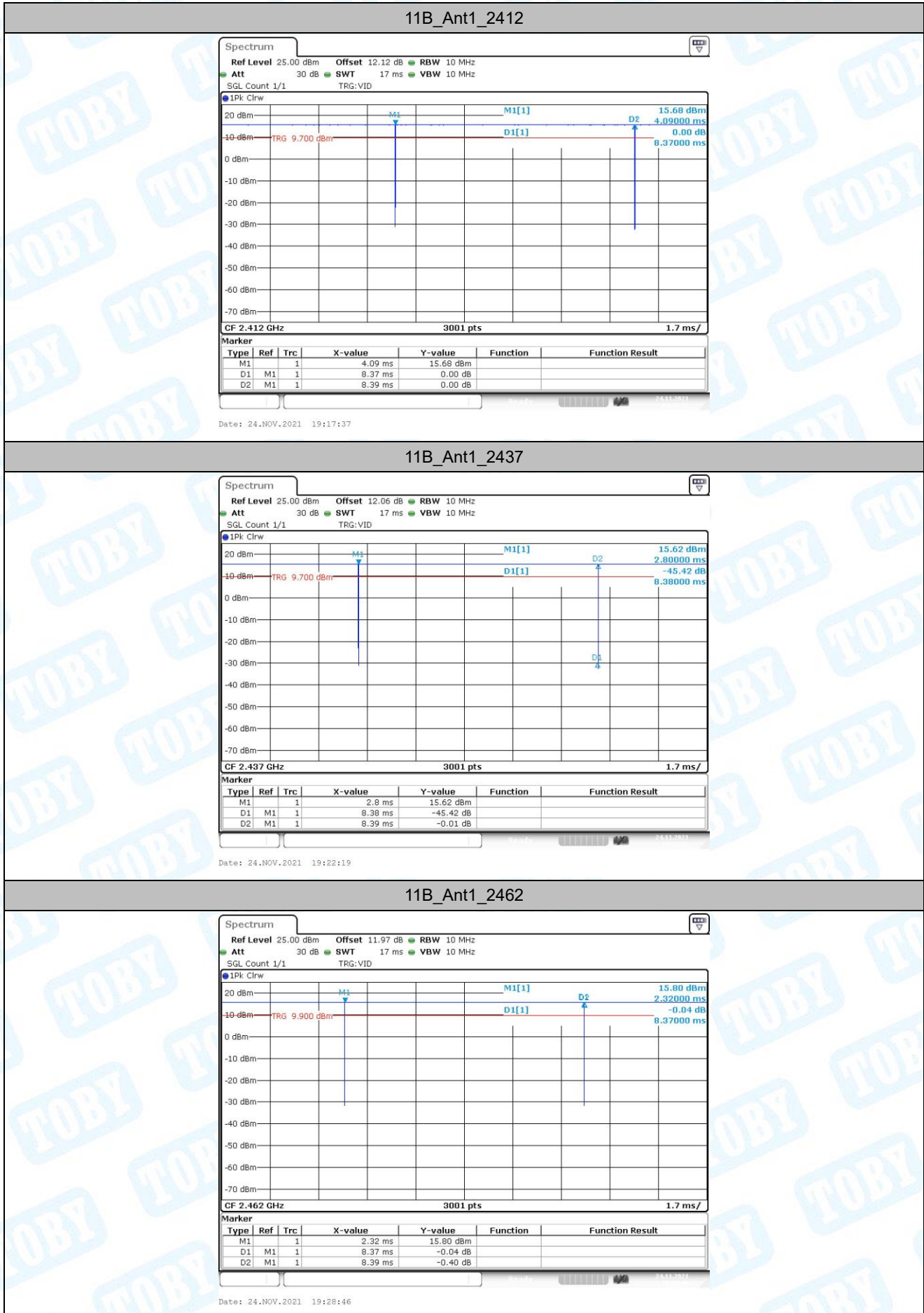


7. Duty Cycle

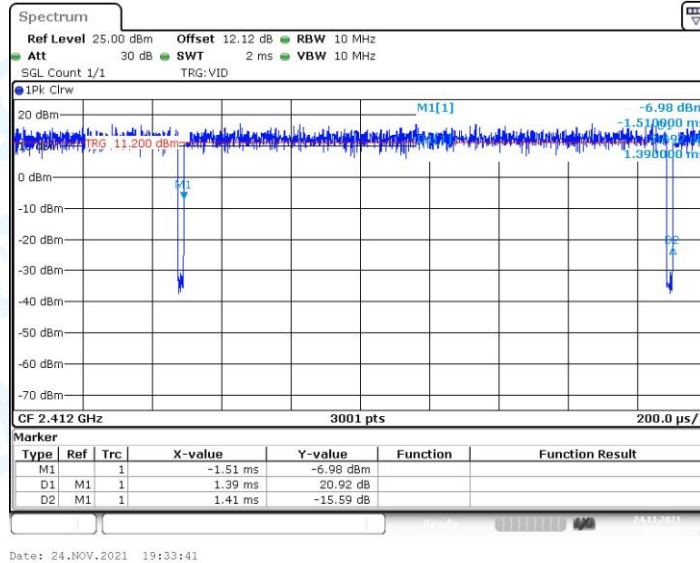
7.1. Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	1/T [KHz]	Verdict
11B	Ant1	2412	8.37	8.39	99.76	---	0.119	PASS
		2437	8.38	8.39	99.88	---	0.119	PASS
		2462	8.37	8.39	99.76	---	0.119	PASS
11G	Ant1	2412	1.39	1.41	98.58	---	0.719	PASS
		2437	1.40	1.41	99.29	---	0.714	PASS
		2462	1.39	1.41	98.58	---	0.719	PASS

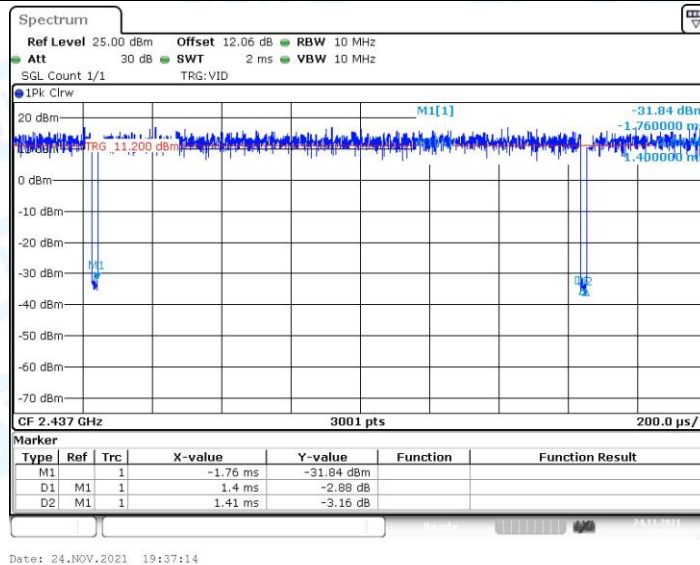
7.2.Test Graphs



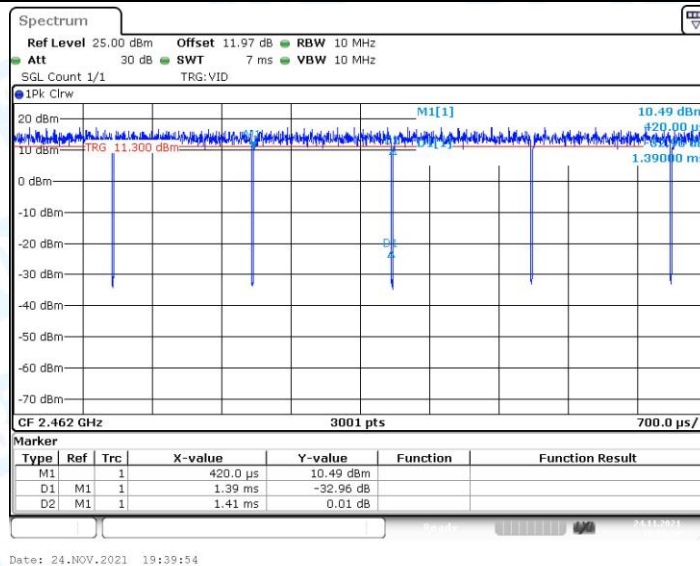
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



8. Emissions in Restricted Bands

8.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.21	≤-41.20	PASS
				AV	2340.507	-46.8	≤-41.20	PASS
				AV	2390.000	-47.2	≤-41.20	PASS
				Peak	2310.000	-41.4	≤-21.20	PASS
				Peak	2340.319	-37.72	≤-21.20	PASS
				Peak	2390.000	-42.72	≤-21.20	PASS
		High	2462	AV	2483.500	-46.76	≤-41.20	PASS
				AV	2483.681	-46.75	≤-41.20	PASS
				AV	2500.000	-47.98	≤-41.20	PASS
				Peak	2483.500	-40.09	≤-21.20	PASS
				Peak	2489.739	-37.47	≤-21.20	PASS
				Peak	2500.000	-42.24	≤-21.20	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.79	≤-41.20	PASS
				AV	2389.870	-46.28	≤-41.20	PASS
				AV	2390.000	-46.15	≤-41.20	PASS
				Peak	2310.000	-42.57	≤-21.20	PASS
				Peak	2342.768	-37.57	≤-21.20	PASS
				Peak	2390.000	-38.79	≤-21.20	PASS
		High	2462	AV	2483.500	-46.6	≤-41.20	PASS
				AV	2483.522	-46.6	≤-41.20	PASS
				AV	2500.000	-47.85	≤-41.20	PASS
				Peak	2483.500	-38.45	≤-21.20	PASS
				Peak	2498.029	-36.73	≤-21.20	PASS
				Peak	2500.000	-39.25	≤-21.20	PASS

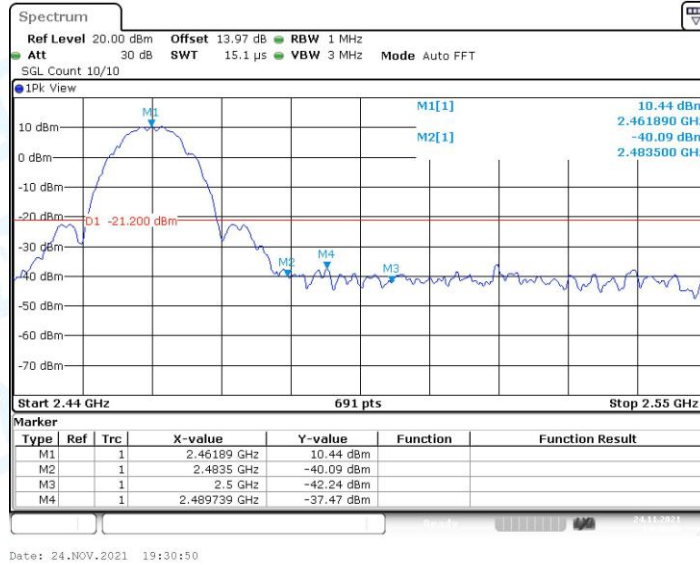
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

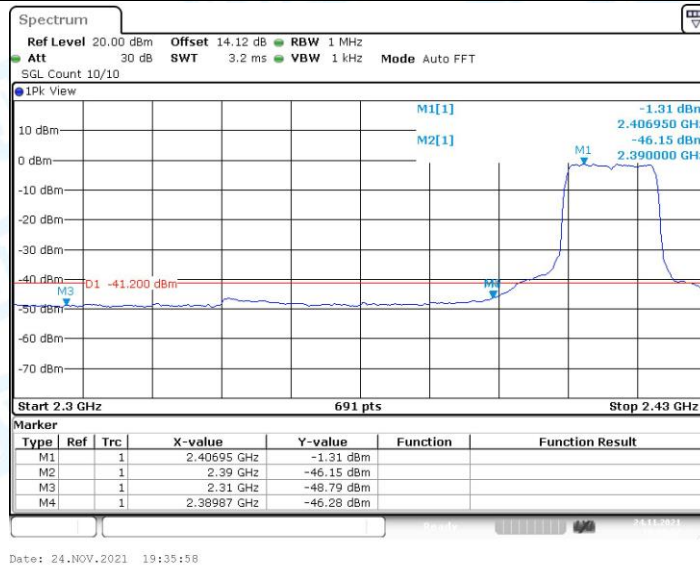
8.2. Test Graphs



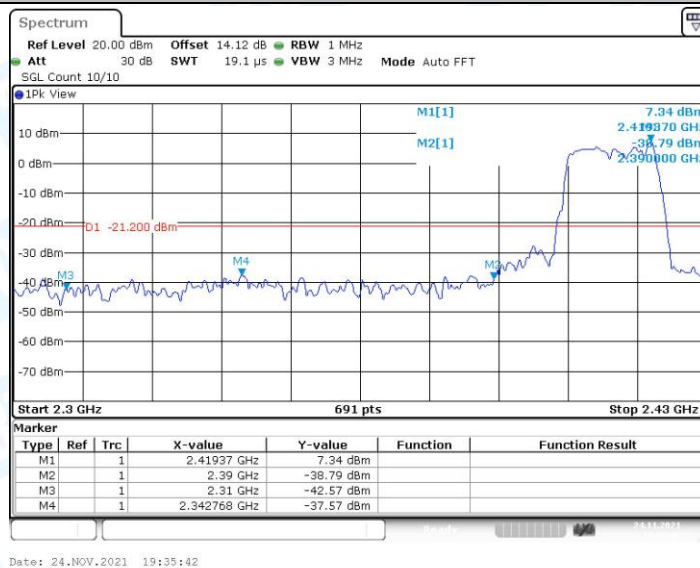
11B_Ant1_High_2462_Peak



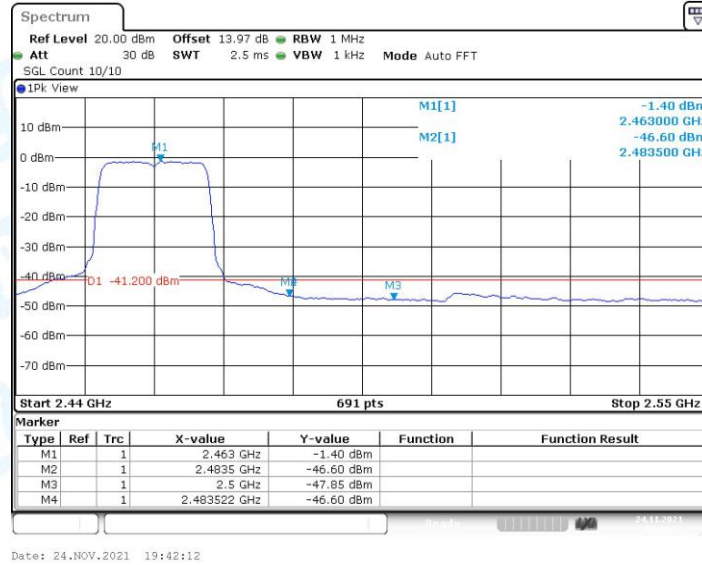
11G_Ant1_Low_2412_AV



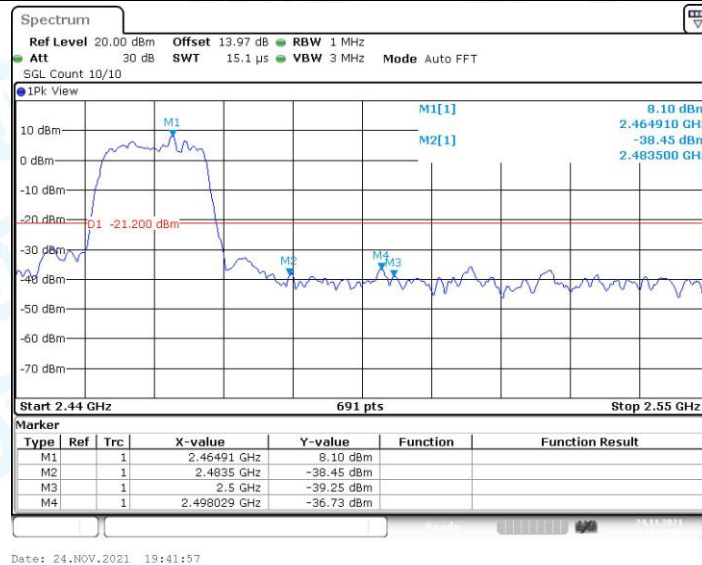
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



-----End of the report-----