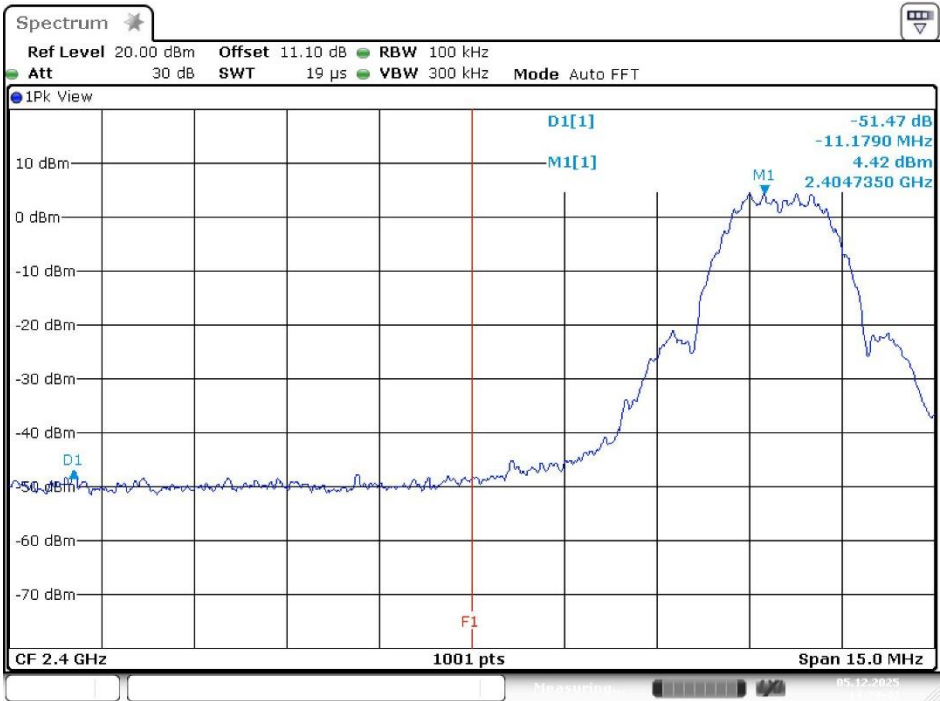
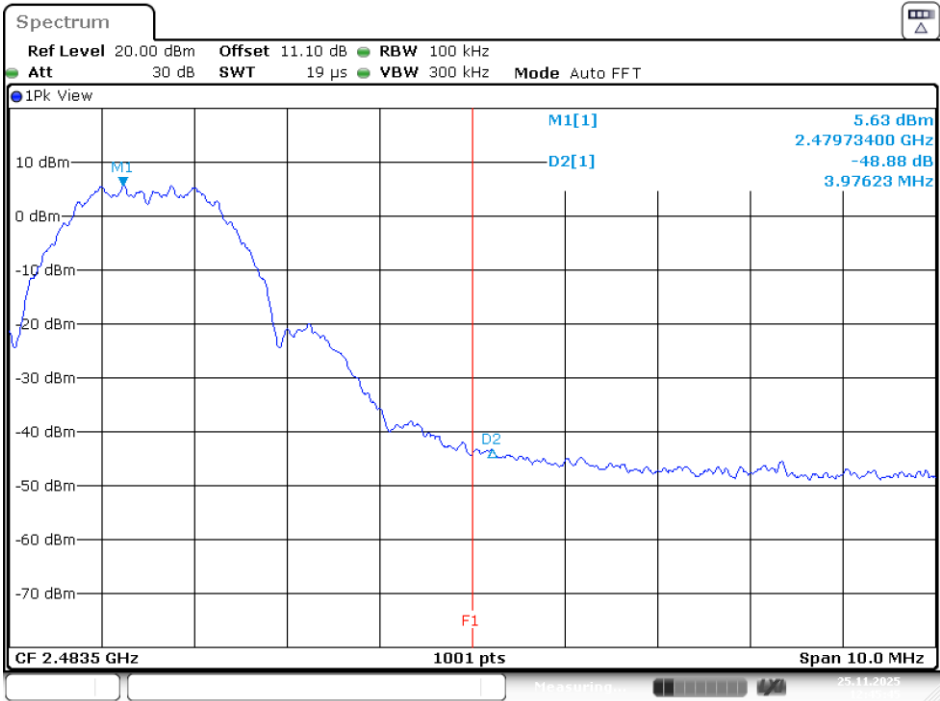


Zigbee Mode
Band Edge, Low Channel



Band Edge, High Channel



11 FCC §15.247(e) & RSS-247 §5.2(b) – Power Spectral Density

13.1 Applicable Standard

According to FCC §15.247(e).

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

According to RSS-247 §5.2(b).

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

13.2 Test Procedure

According to ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024, section 11.10.2

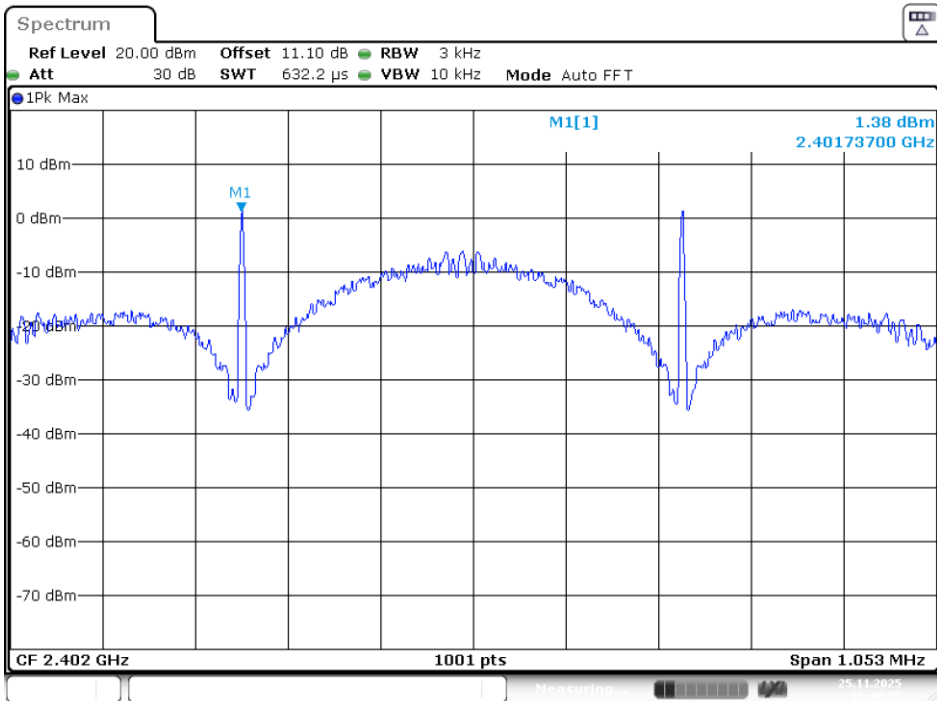
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat

13.3 Test Results**Main 44229669594:**

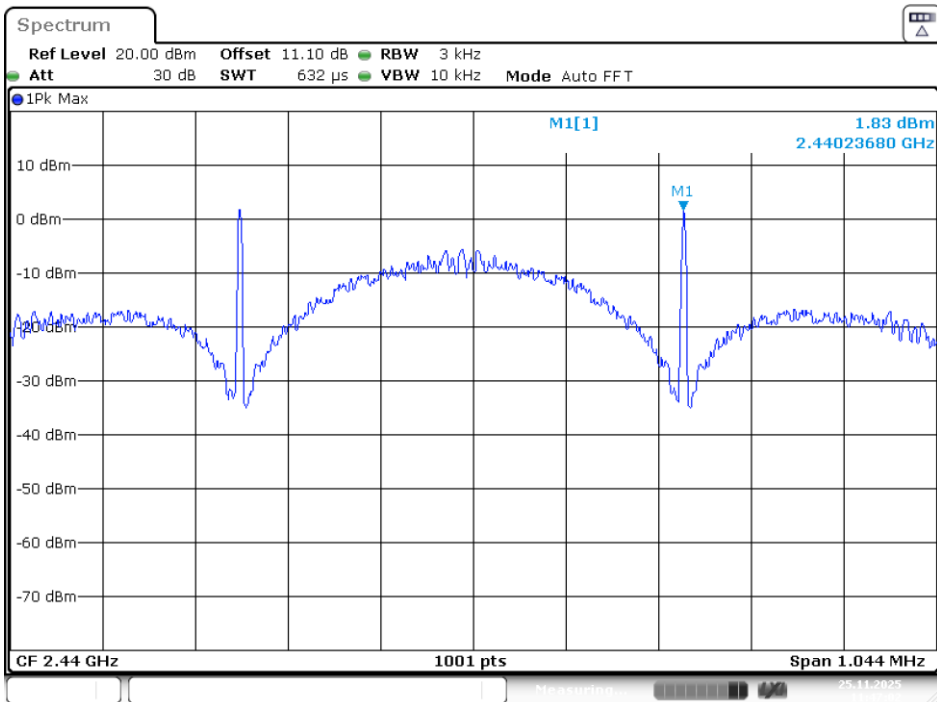
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
BLE(125k) Mode				
Low	2402	1.38	8	PASS
Middle	2440	1.83	8	PASS
High	2480	2.35	8	PASS
BLE(500k) Mode				
Low	2402	-9.75	8	PASS
Middle	2440	-9.41	8	PASS
High	2480	-8.88	8	PASS
BLE(1M) Mode				
Low	2402	-9.87	8	PASS
Middle	2440	-9.40	8	PASS
High	2480	-8.88	8	PASS
BLE(2M) Mode				
Low	2402	-15.53	8	PASS
Middle	2440	-14.96	8	PASS
High	2480	-14.45	8	PASS
Zigbee Mode				
Low	2405	-7.57	8	PASS
Middle	2440	-7.39	8	PASS
High	2480	-6.84	8	PASS

Please refer to the following plots

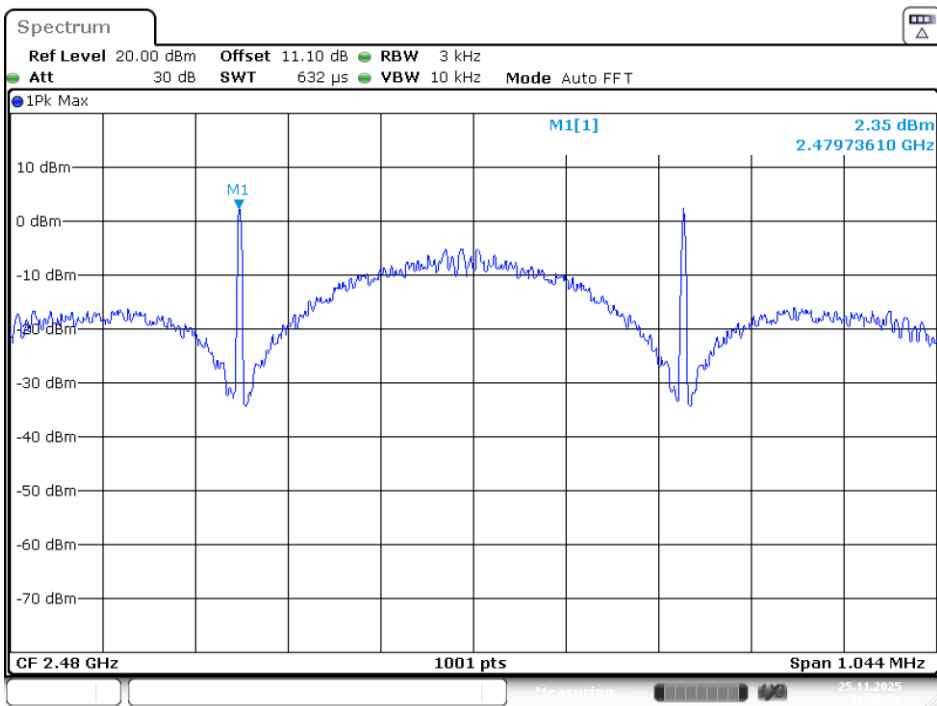
BLE(125k) Mode
Low Channel



Middle Channel



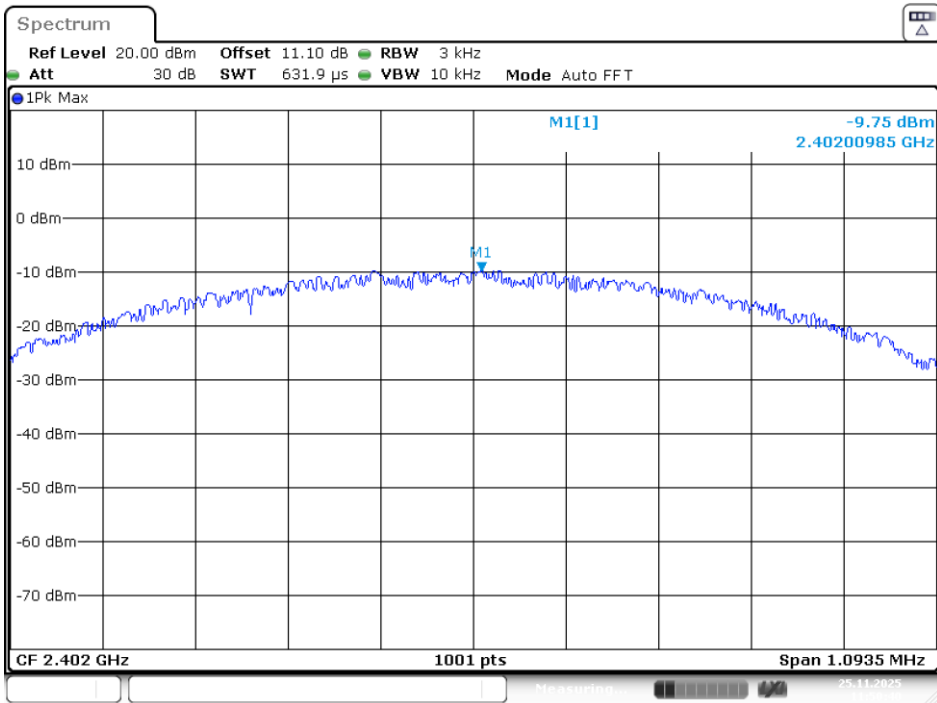
High Channel



Date: 25.NOV.2025 11:48:51

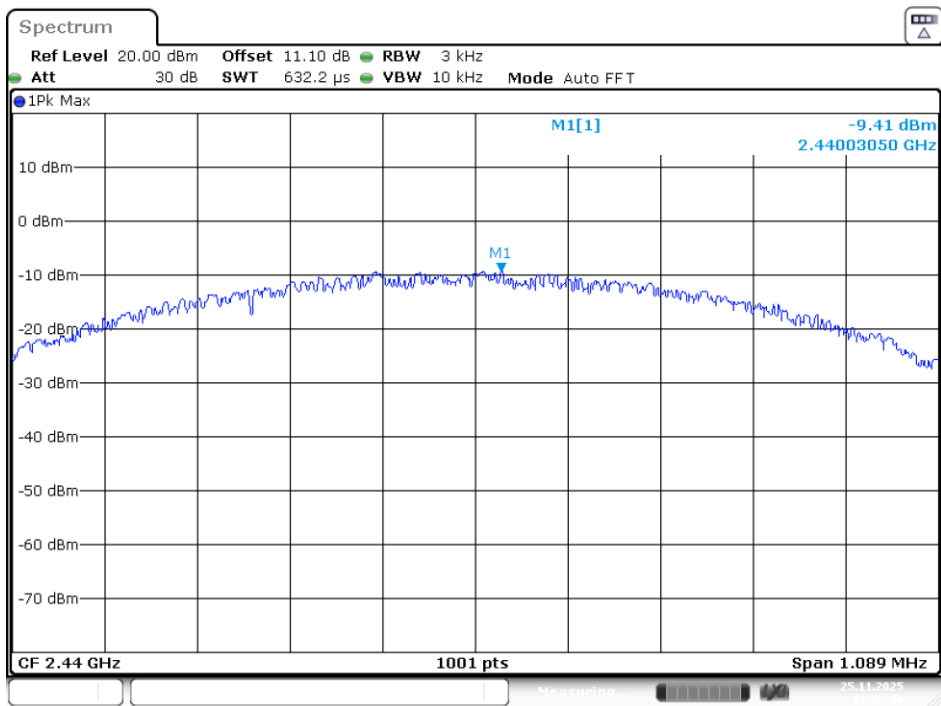
BLE(500k) Mode

Low Channel



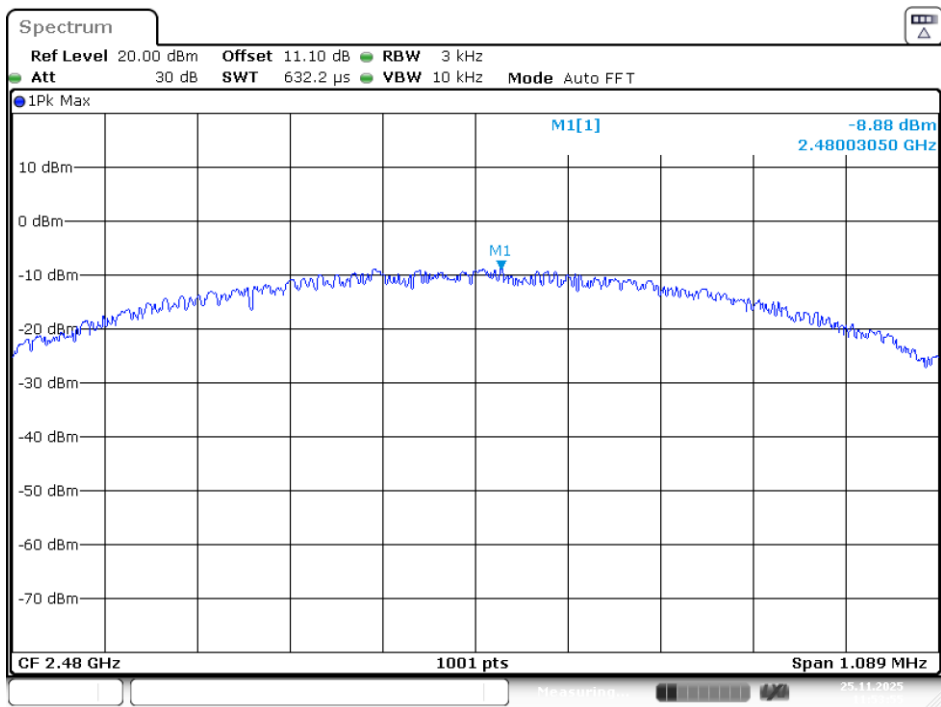
Date: 25.NOV.2025 11:50:40

Middle Channel



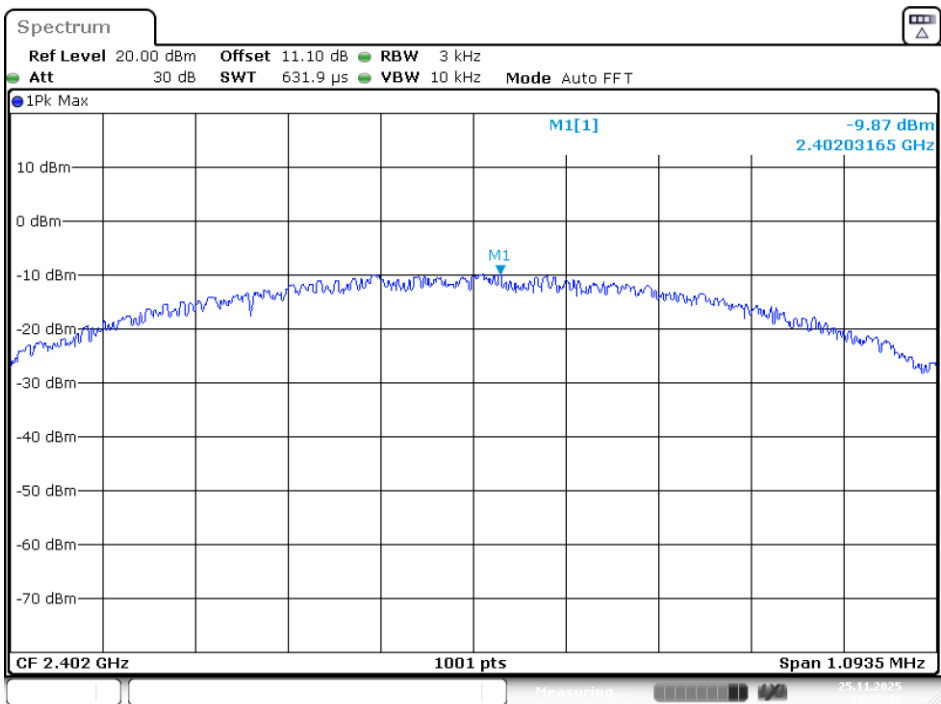
Date: 25.NOV.2025 11:52:47

High Channel



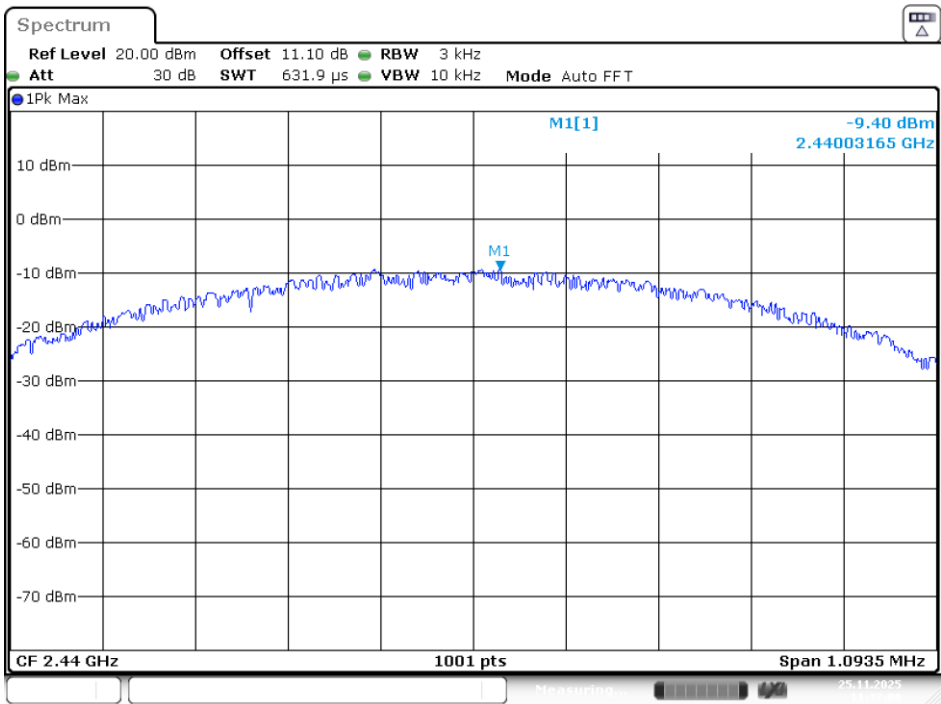
Date: 25.NOV.2025 11:53:56

BLE(1M) Mode
Low Channel



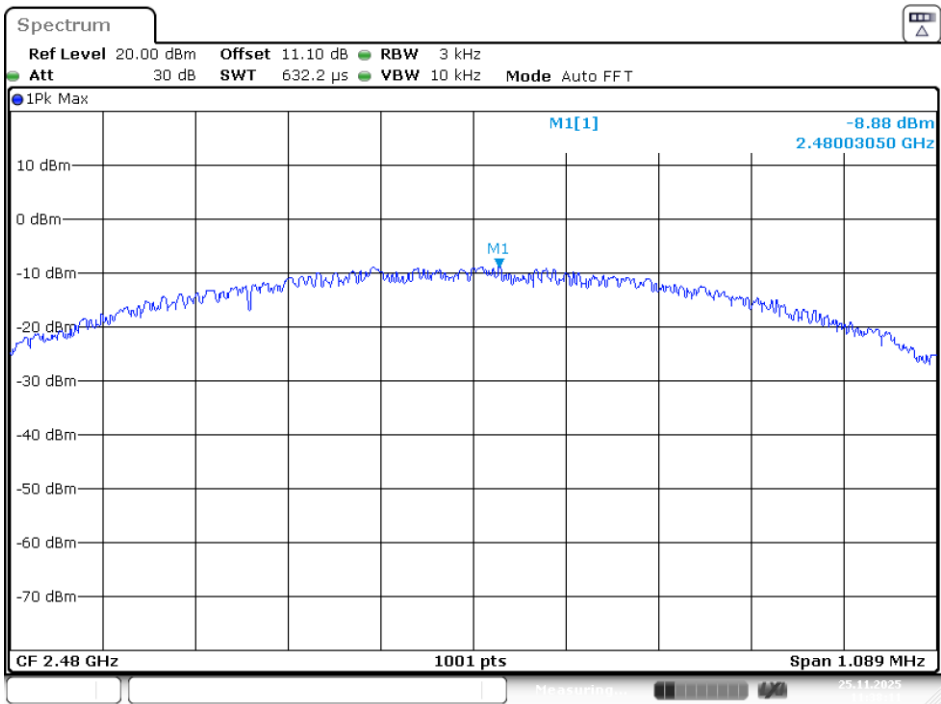
Date: 25.NOV.2025 11:35:18

Middle Channel



Date: 25.NOV.2025 11:37:00

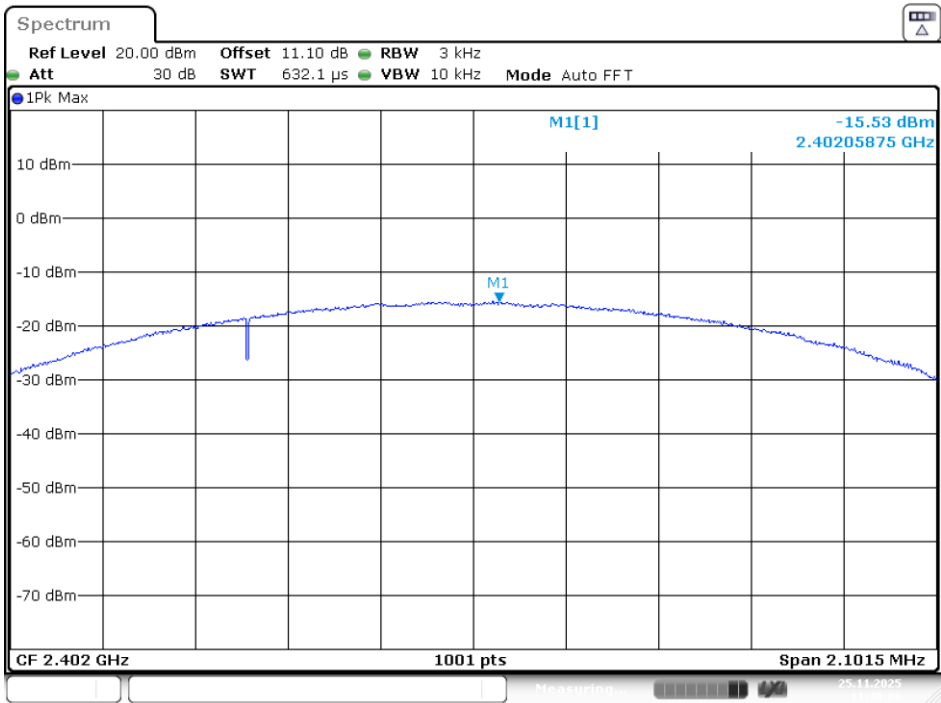
High Channel



Date: 25.NOV.2025 11:38:11

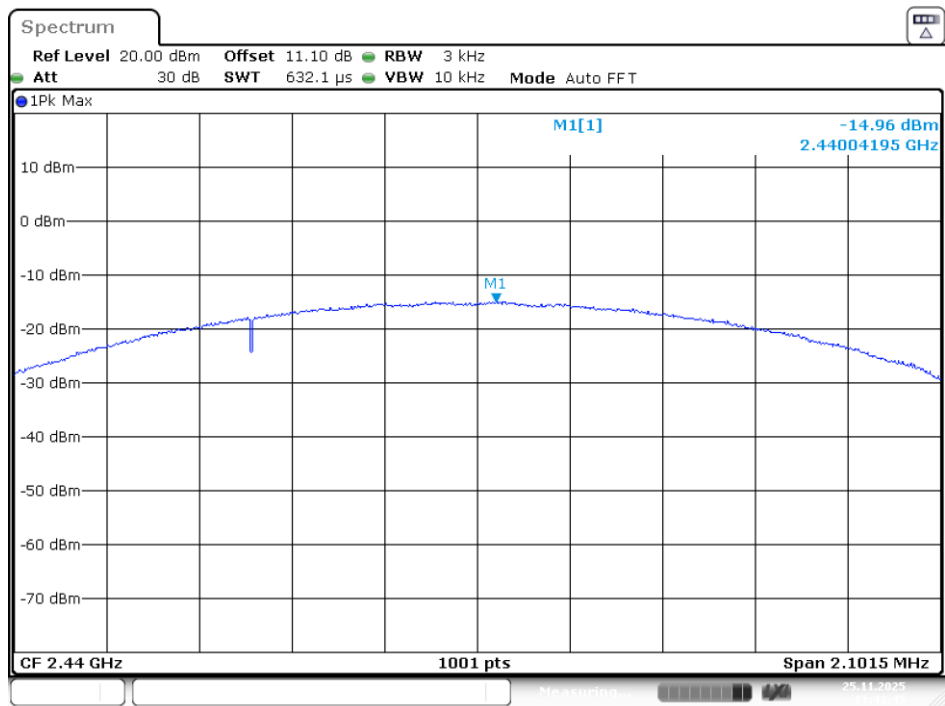
BLE(2M) Mode

Low Channel



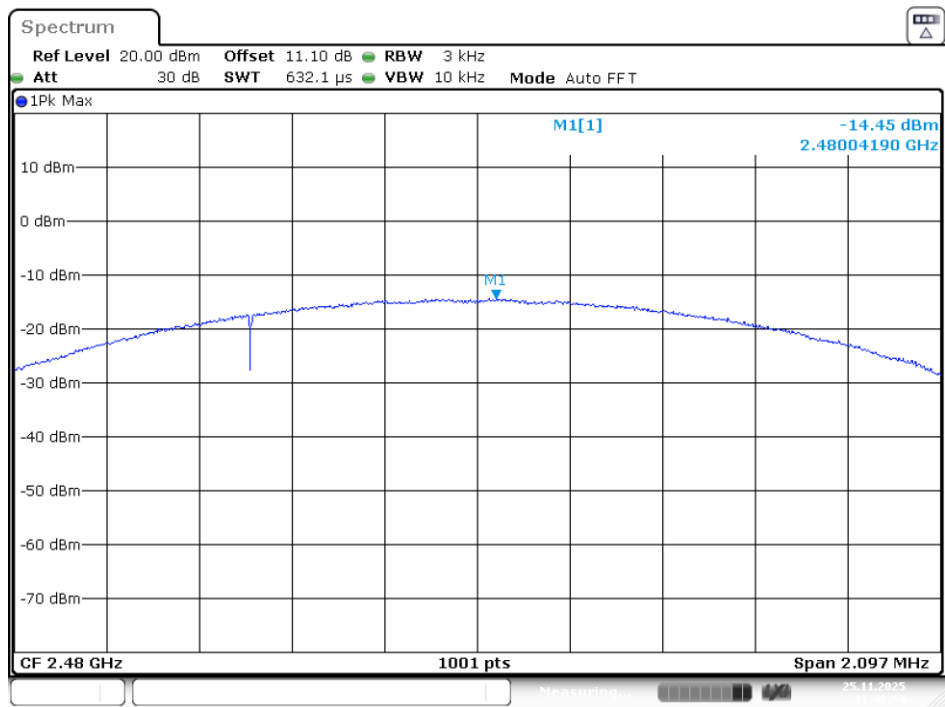
Date: 25.NOV.2025 11:40:06

Middle Channel



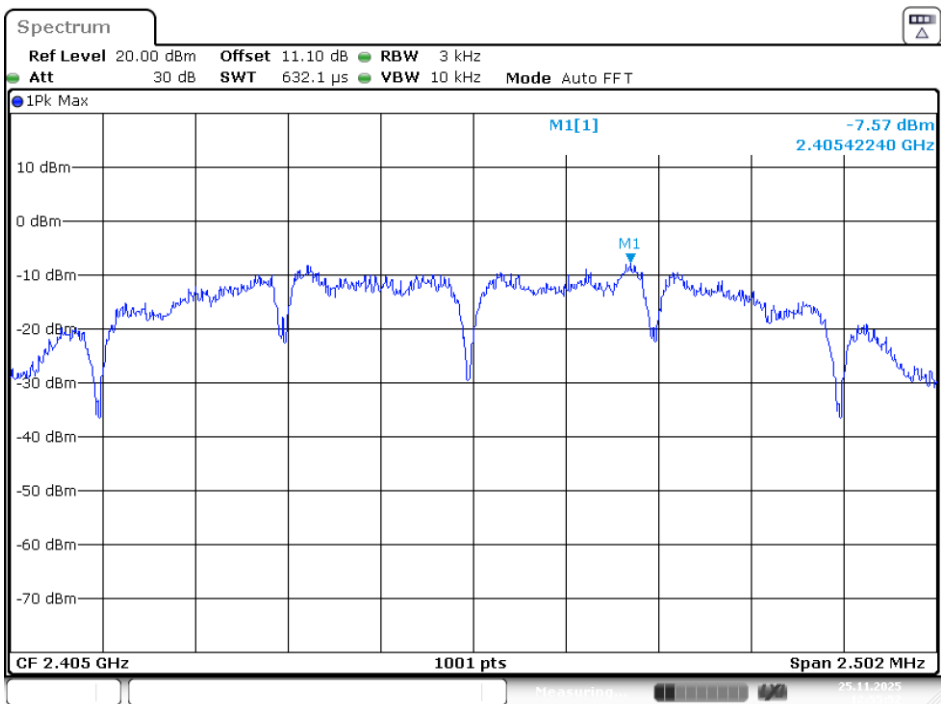
Date: 25.NOV.2025 11:41:46

High Channel



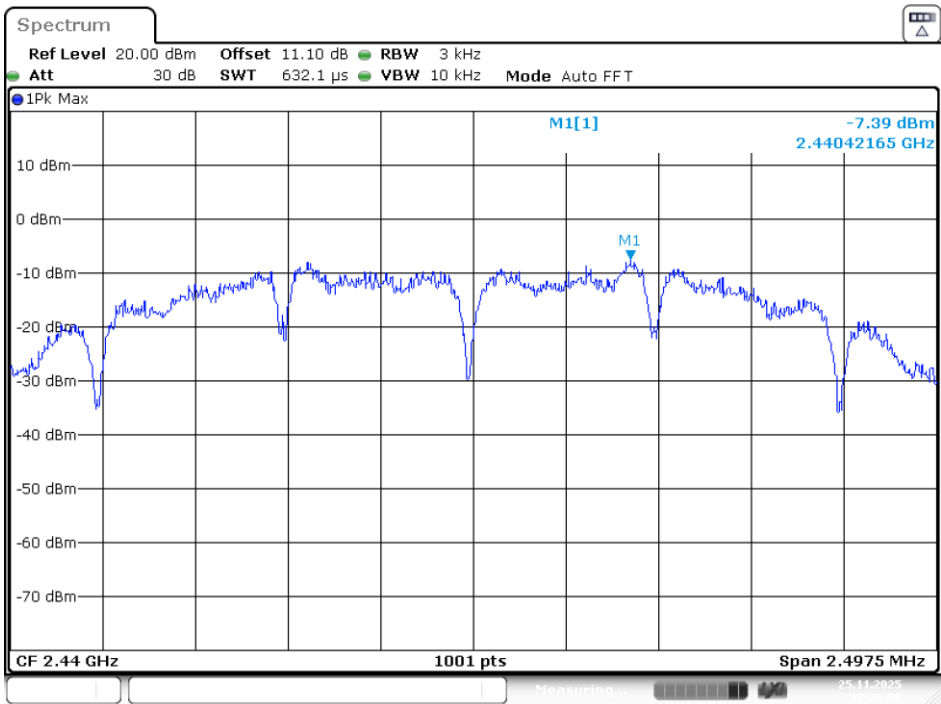
Date: 25.NOV.2025 11:42:55

Zigbee Mode
Low Channel



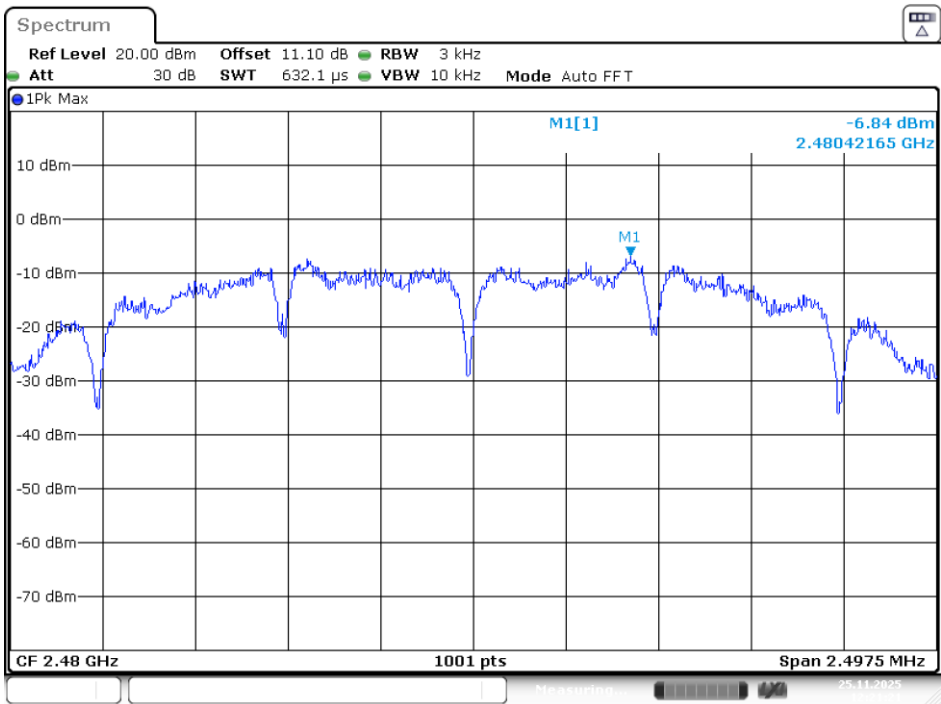
Date: 25.NOV.2025 12:55:52

Middle Channel



Date: 25.NOV.2025 12:20:08

High Channel

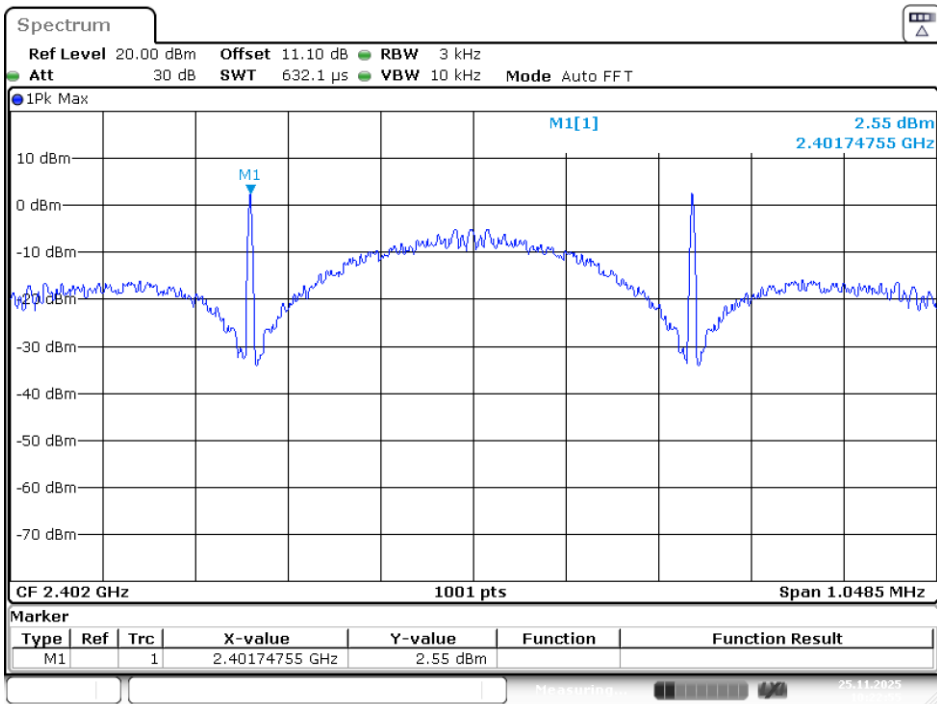


Series 44229669593:

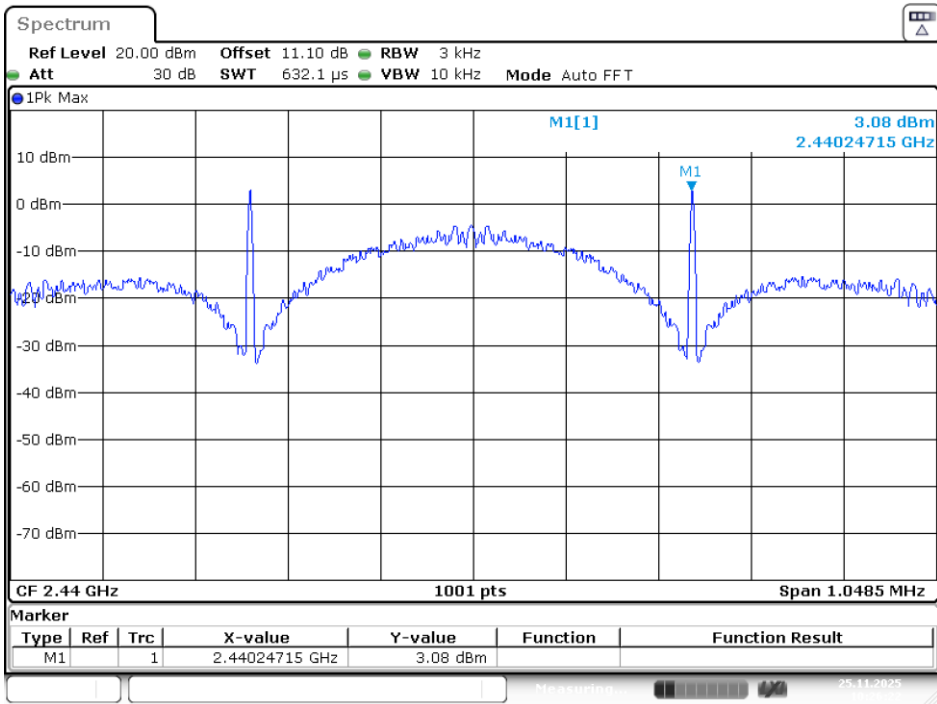
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
BLE(125k) Mode				
Low	2402	2.55	8	PASS
Middle	2440	3.08	8	PASS
High	2480	3.59	8	PASS
BLE(500k) Mode				
Low	2402	-9.62	8	PASS
Middle	2440	-8.04	8	PASS
High	2480	-7.53	8	PASS
BLE(1M) Mode				
Low	2402	-8.61	8	PASS
Middle	2440	-8.08	8	PASS
High	2480	-7.57	8	PASS
BLE(2M) Mode				
Low	2402	-14.16	8	PASS
Middle	2440	-13.65	8	PASS
High	2480	-13.12	8	PASS
Zigbee Mode				
Low	2405	-6.90	8	PASS
Middle	2440	-6.64	8	PASS
High	2480	-6.12	8	PASS

Please refer to the following plots

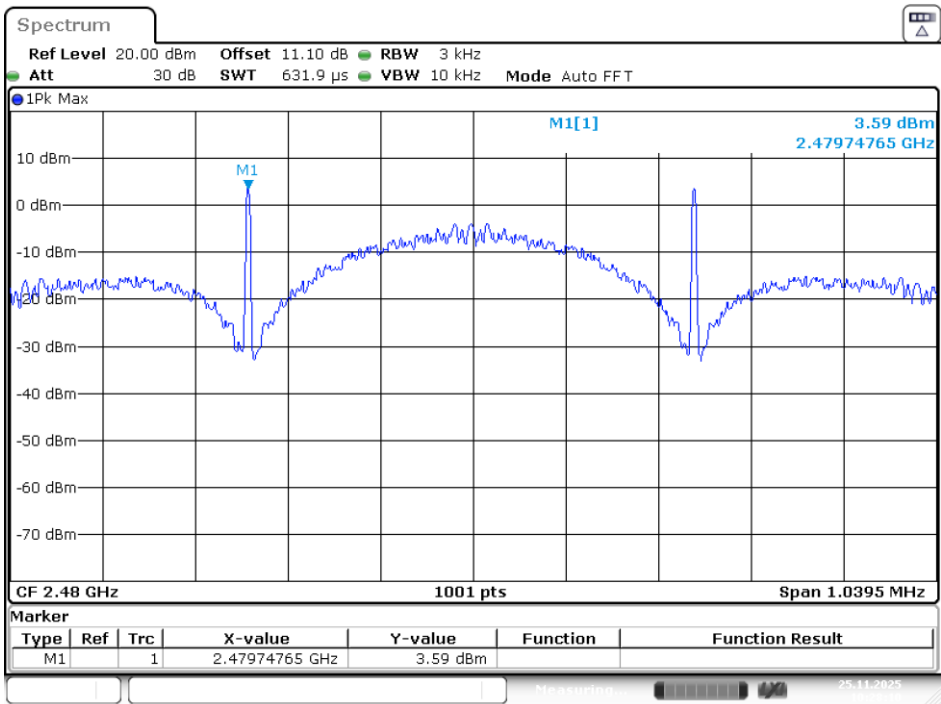
BLE(125k) Mode
Low Channel



Middle Channel

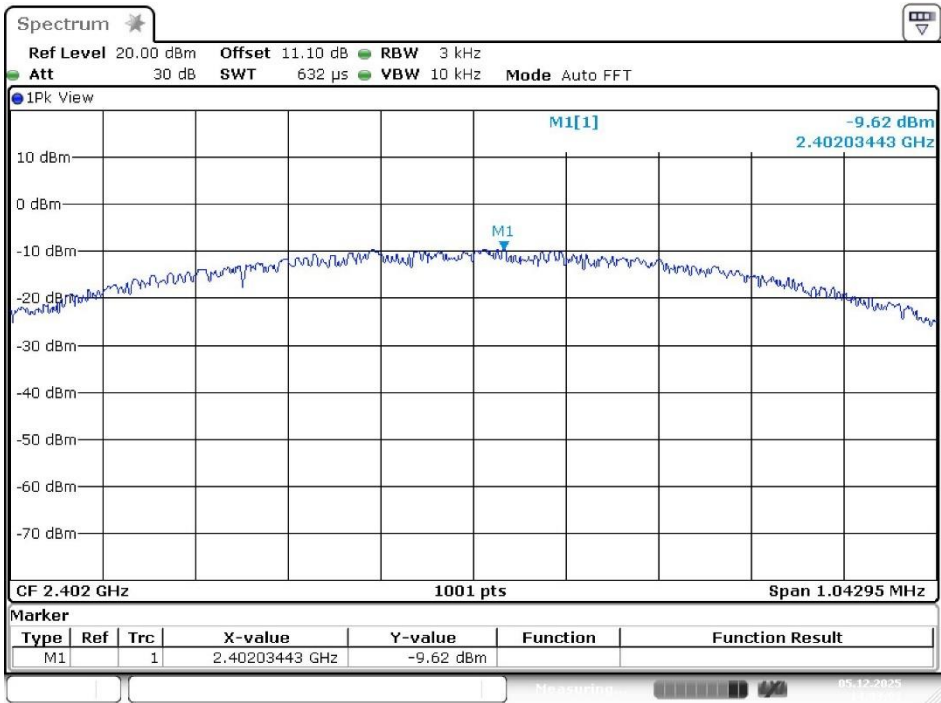


High Channel

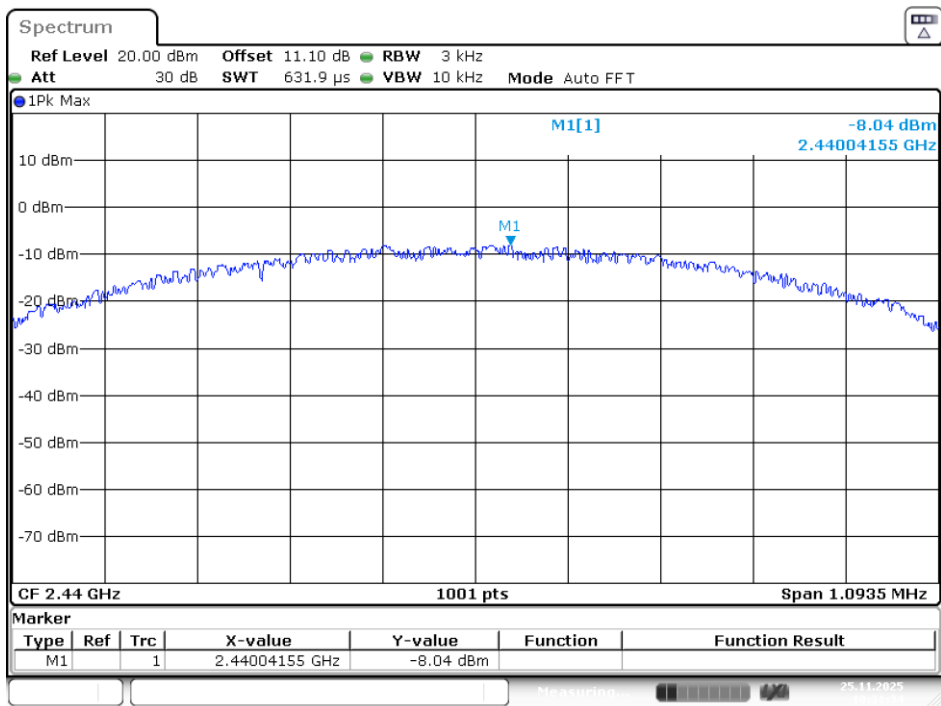


BLE(500k) Mode

Low Channel

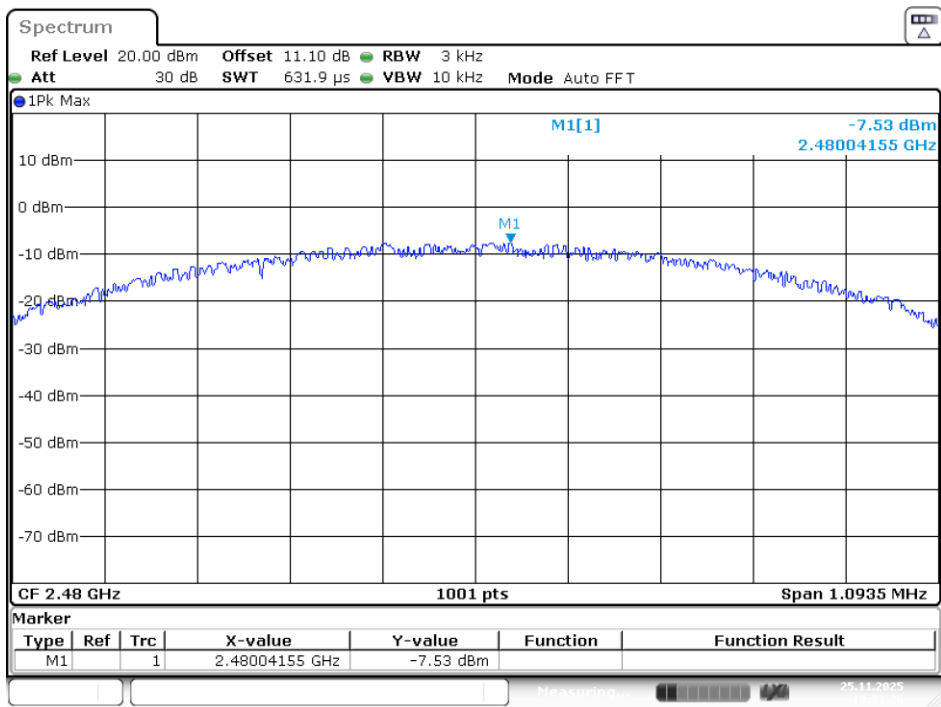


Middle Channel



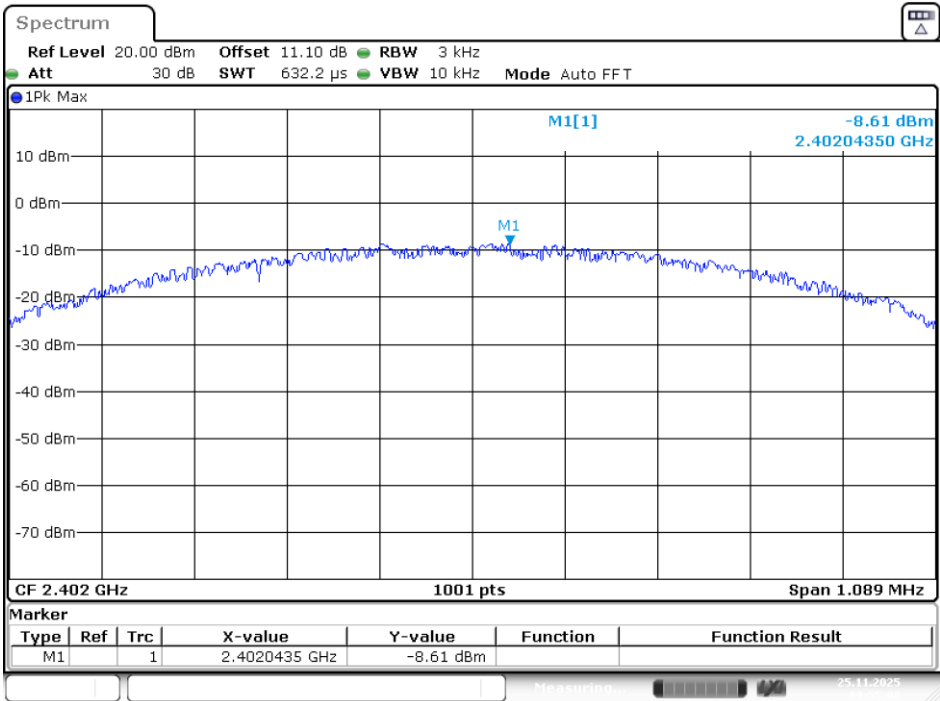
Date: 25.NOV.2025 10:31:34

High Channel



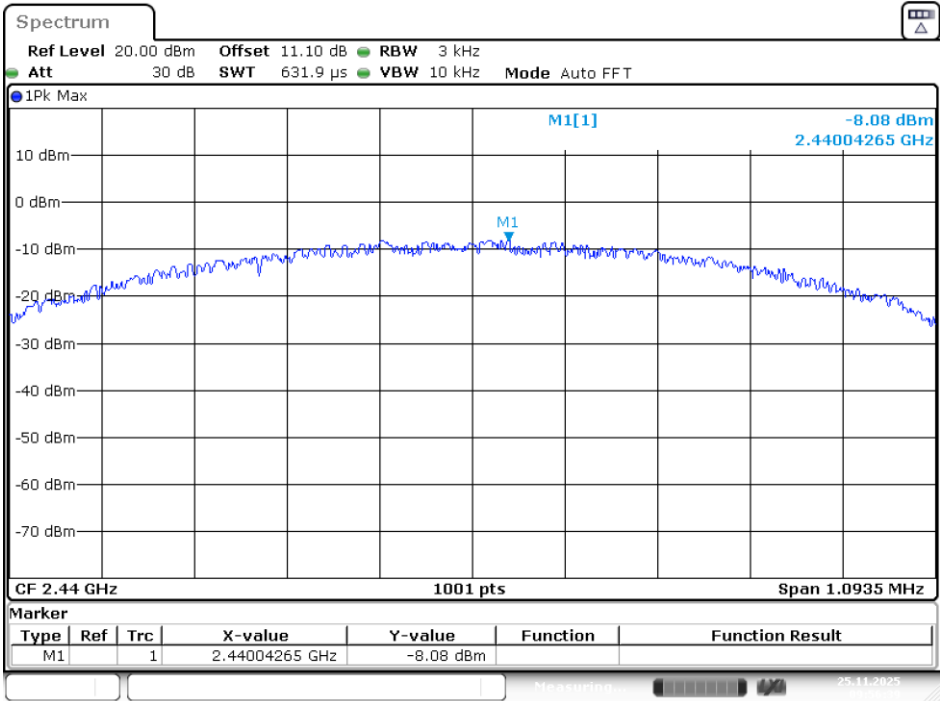
Date: 25.NOV.2025 10:33:26

BLE(1M) Mode
Low Channel



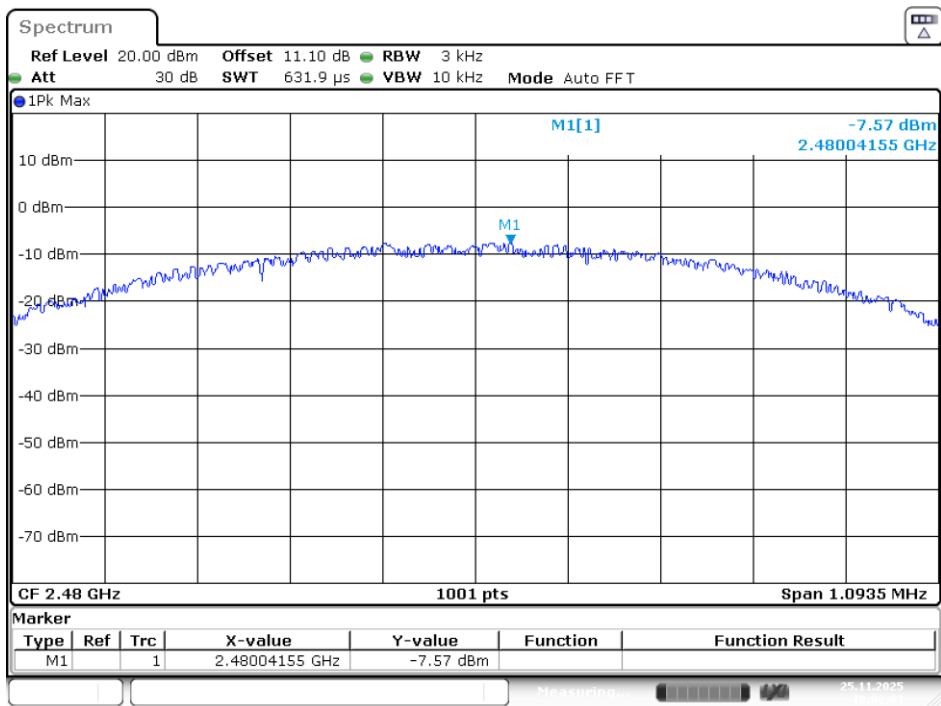
Date: 25.NOV.2025 09:55:08

Middle Channel



Date: 25.NOV.2025 09:56:38

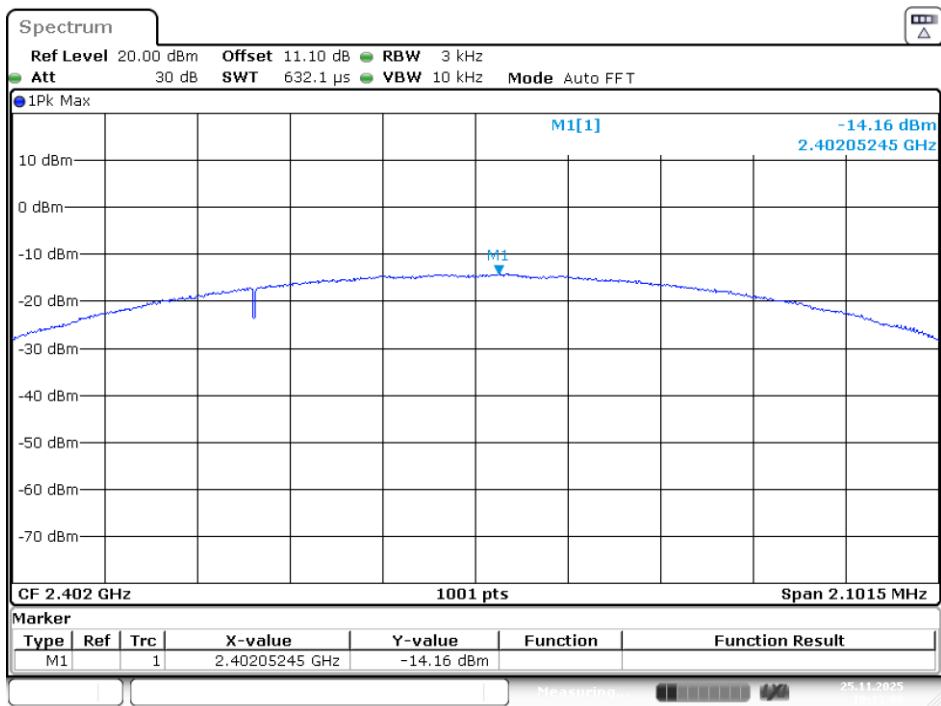
High Channel



Date: 25.NOV.2025 10:02:03

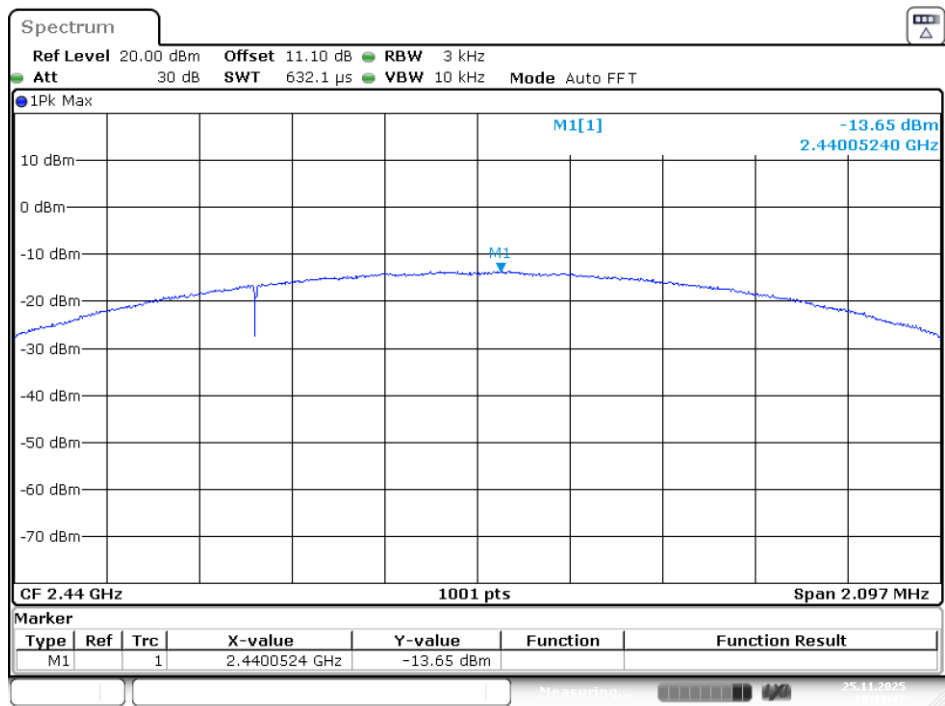
BLE(2M) Mode

Low Channel



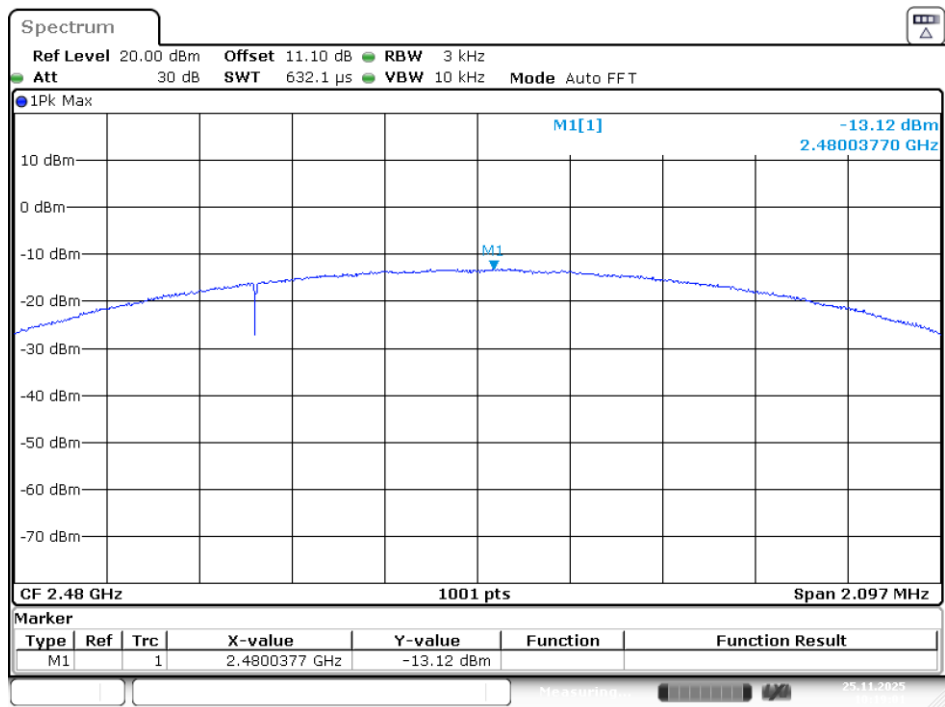
Date: 25.NOV.2025 10:13:06

Middle Channel



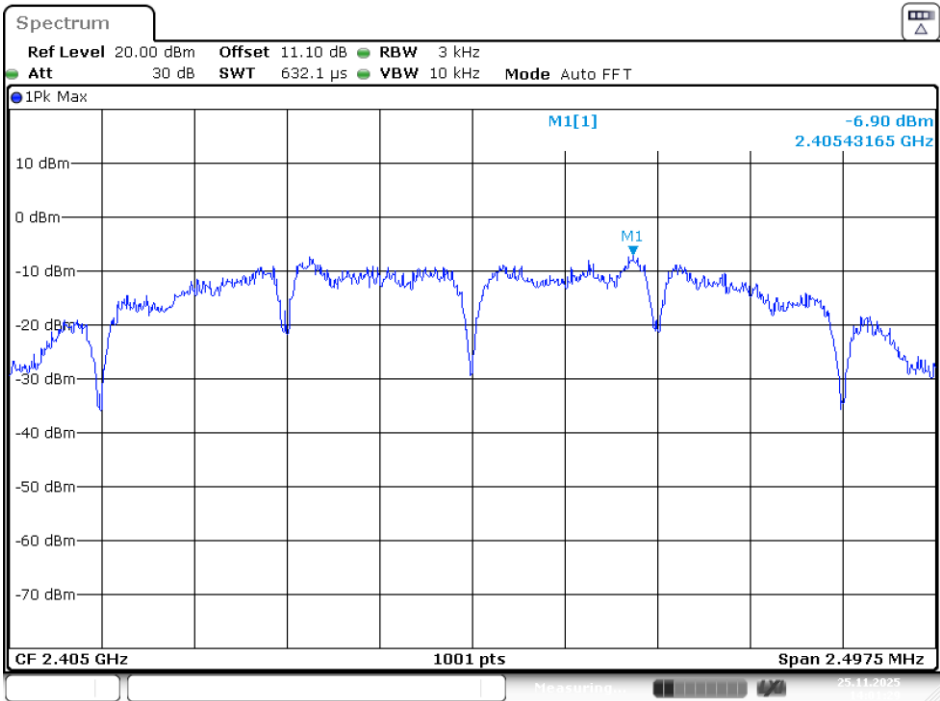
Date: 25.NOV.2025 10:17:48

High Channel

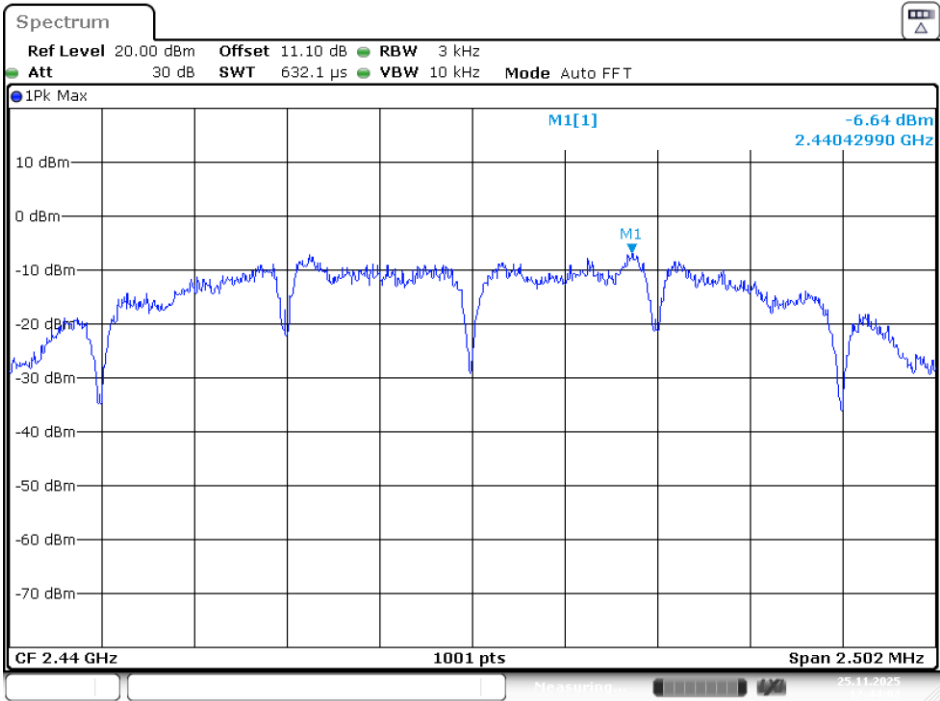


Date: 25.NOV.2025 10:19:01

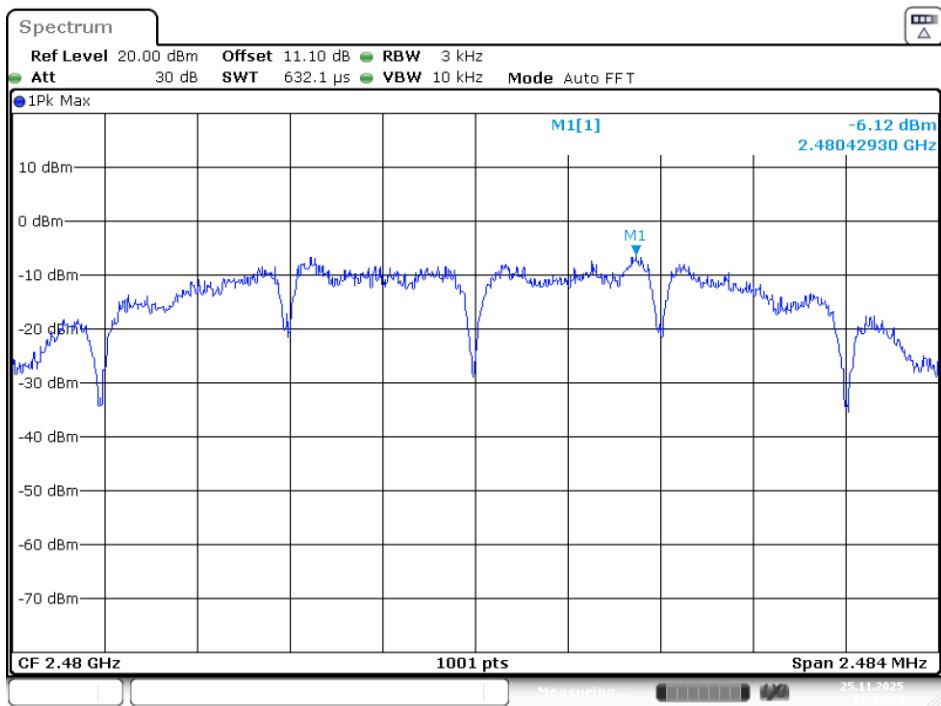
Zigbee Mode
Low Channel



Middle Channel



High Channel



Date: 25.NOV.2025 12:45:14

***** END OF REPORT *****