

Hammerholmen 45A
2650 Hvidovre
Denmark
+45 7070 1499
info@ektos.net

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TEST: Testing laboratory (DS/EN ISO/IEC 17025)
FCC reg. no.: DK0002
ISED CAB identifier: DK0001

Date
2025-03-20

Reference
P24-0097-2

Page
1 (115)

Test Report

of

Model: 2000-1 Fitting Unit. Part no: PN00887
FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

according to

FCC 47 CFR, Part 15 Subpart C
15.247 Operation within the band 2400 to 2483.5 MHz
and
ISED RSS-247 Issue 3 Aug. 2023

Performed by



Søren Søltøft
Senior EMC Engineer

Examined by



Volodymyr Hraivoronskyi
Test Engineer, M. Sc. EE.



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FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
2 (115)

Report no.:	P24-0097-2	Report date:	2025-03-20
Test started:	2024-10-01	Test ended:	2025-03-14
Test laboratory:	EKTOS TRS A/S Hammerholmen 45A 2650 Hvidovre Denmark	Client:	Auditdata A/S Wildersgade 10B 1408 Copenhagen Denmark
Contact person:	Jens Denborg	Contact person:	Jonas Svendsen
Facility reg. no.	FCC Designation number: DK0002 ISED CAB identifier: DK0001		
Test specimen:	Model: 2000-1 Fitting Unit. Part no: PN00887.		
Test specification:	FCC 47 CFR Part 15 Subpart C 15.247 Operation within the band 2400 to 2483.5 MHz. ISED RSS-247 Issue 3 Aug. 2023. The tests relevant for the test specimens are listed in <i>section 1.1</i> .		
Documentation:	This test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The complete test documentation is archived for 10 years at the testing laboratory.		
Test results:	The test specimen complies with relevant parts of the test specifications. The test results relate only to the specimen tested.		
Test personnel:	Søren Søltoft		

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
3 (115)

CONTENTS

1	SUMMARY	4
1.1	Test plan.....	4
1.2	Test specimens	5
1.3	Auxiliary Equipment.....	6
2	TESTS	7
2.1	Carrier frequency separation.....	7
2.2	Number of hopping frequencies	10
2.3	Time of occupation	13
2.4	Output power	18
2.5	Occupied bandwidth.....	23
2.6	Conducted spurious emission	37
2.7	Conducted band edge	66
2.8	Restricted-band band-edge.....	73
2.9	Emission in Restricted bands	77
2.10	AC power-line conducted emission.....	109
2.11	Frequency stability versus supply voltage and temperature variation	113
3	MEASURING UNCERTAINTIES	115

Appendix

- 1 Photos of test setups and equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
4 (115)

1 SUMMARY

See Appendix 1 for photos.

Emission measurements as specified below have been performed.

1.1 Test plan

Standard	Name of the test	Results
§ 15.247 (a)(1) RSS-247 5.1.b	Carrier frequency separation	PASSED
§ 15.247 (a)(1)(iii) RSS-247 5.1.d	Number of hopping frequencies	PASSED
§ 15.247 (a)(1)(iii) RSS-247 5.1.d	Time of occupation (Dwell time)	PASSED
§ 15.247 (b)(1) RSS-247 5.4.b	Conducted output power	PASSED
15.215 (c) RSS-Gen 6.7	Occupied bandwidth	PASSED
§ 15.247 (d) RSS-247 5.5	Conducted spurious emission	PASSED
ANSI C63.10:2013 sec. 7.8.6	Conducted band edge	PASSED
ANSI C63.10:2013 sec 6.10.5	Restricted bands adjacent to allocated band	PASSED
§ 15.247 (d) RSS 247 B.6.d	Radiated emissions in restricted bands	PASSED
15.207 (a) RSS-Gen 8.8	AC power line conducted emission	PASSED
§ 15.31 (e) RSS-GEN 6.11	Frequency stability	PASSED

PASSED The test was performed and the test specimen complies with the essential requirements in the standard.
 FAILED The test was performed and the test specimen does not comply with the essential requirements in the standard.
 REF The test is covered by a test in another report and/or on a similar test specimen.
 NR The test is not relevant for the test specimen or has been waived by the manufacturer.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
5 (115)

1.2 Test specimens

1.2.1 2000-1 Fitting Unit

Manufacturer	Auditdata A/S
Model (type)	2000-1 Fitting Unit
Part No.	PN00887
Revision (HW)	3.00
Firmware	4.1.0.0 0308
Carrier frequency	2402 MHz to 2480MHz in 1 MHz step
Antenna	Internal chip antenna
Supply voltage	5 VDC via USB-C from PC and 15 VDC from dedicated AC / DC adaptor.

The two radios setup were controlled by blue SW running on a laptop and a programmer
The test specimen was delivered for test in two versions. One with the original antennas mounted and one where the antennas were replaced by a temporary 50 ohm antenna connector.

See photo in appendix 1.

1.2.2 AC / DC adaptor

Manufacturer	FRIWO Gerätebau GmbH
Type	FW8030M/15
Input	100-240VAC 50-60 Hz 600-300 mA
Output	15VDC 2000 mA

The AC / DC adaptor is used as supplementary VDC supply test specimen under high power requirements.

See photo in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
6 (115)

1.3 Auxiliary Equipment

1.3.1 Programmer for radio setup

Manufacturer	Qualcomm
Name	BlueTest3
Model	20-CC511-H11
Ser. No.	415218
Details	-
Supply voltage	USB

See photo in appendix 1.

Test software was used in the measurements of wireless devices to enable tests modes and specific settings. The software was provided by the manufacturer of the devices for that specific purpose.

During tests the setup "TXDATA, TXDATA1 and TXDATA2" were used.

TXDATA: Unmodulated carrier at max power.

TXDATA1: Modulated carrier hopping on a single selected frequency at max power.

TXDATA2 Modulated carrier hopping in the frequency range 2402 MHz to 2480 MHz at max power.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
7 (115)

2 TESTS

2.1 Carrier frequency separation

Test specimen	2000-1 Fitting Unit
Test specification	§ 15.247 (a)(1) RSS-247 5.1 (b)
Test method	ANSI C63.10:2013 sec. 7.8.2
Comments	-
Temperature / Humidity	23°C / 48%RH, 23°C / 35%RH
Dates of measurements	2024-11-12, 2024-11-21
Test personnel	Søren Søltøft

2.1.1 Test setup

The temporary antenna connector of the test specimen channel under test was connected directly to the Test receiver

The measurement was performed using the delta marker function on the test receiver.

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
8 (115)

2.1.2 Test result

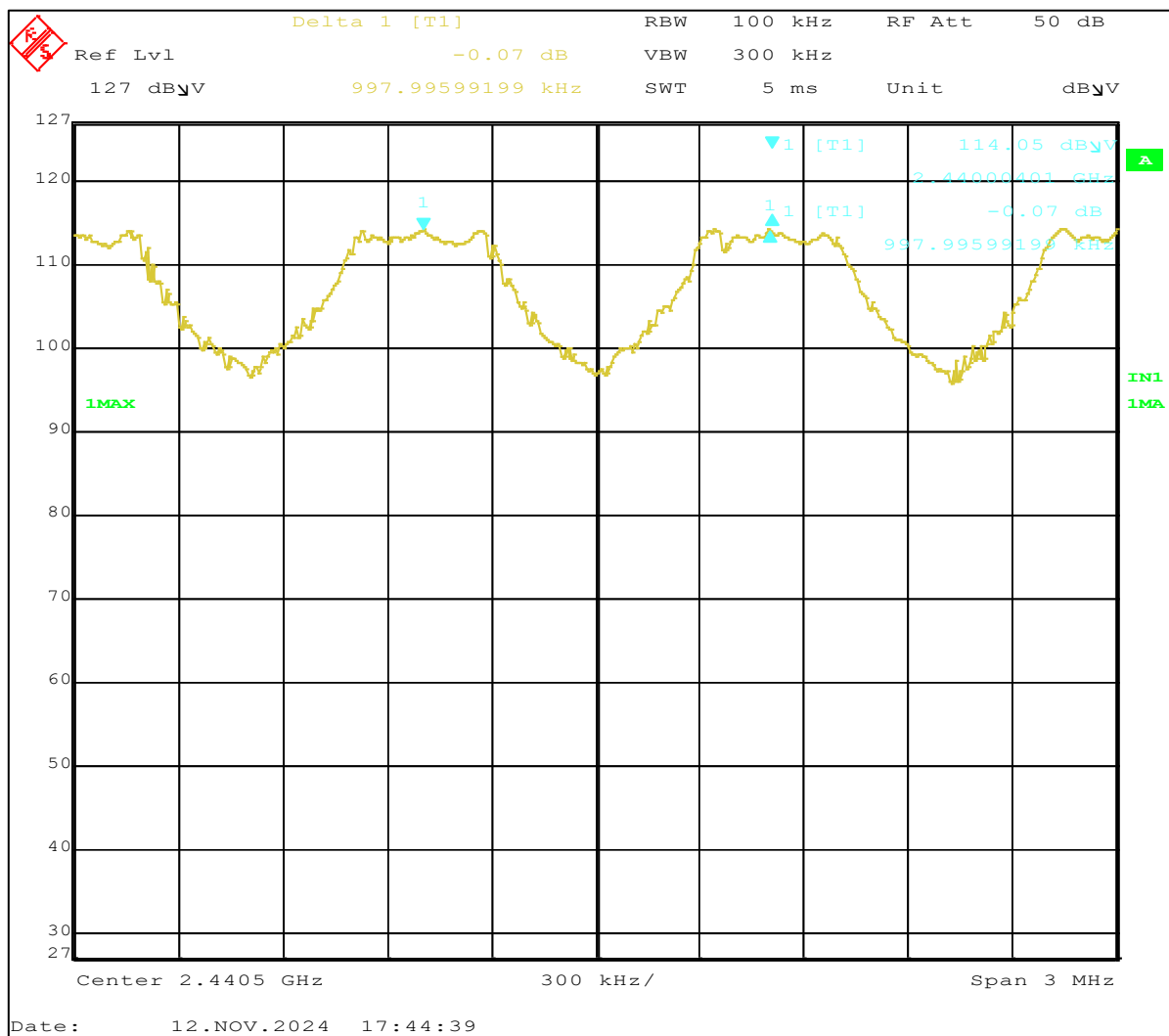


Figure 1. Carrier frequency separation test results. Right channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
9 (115)

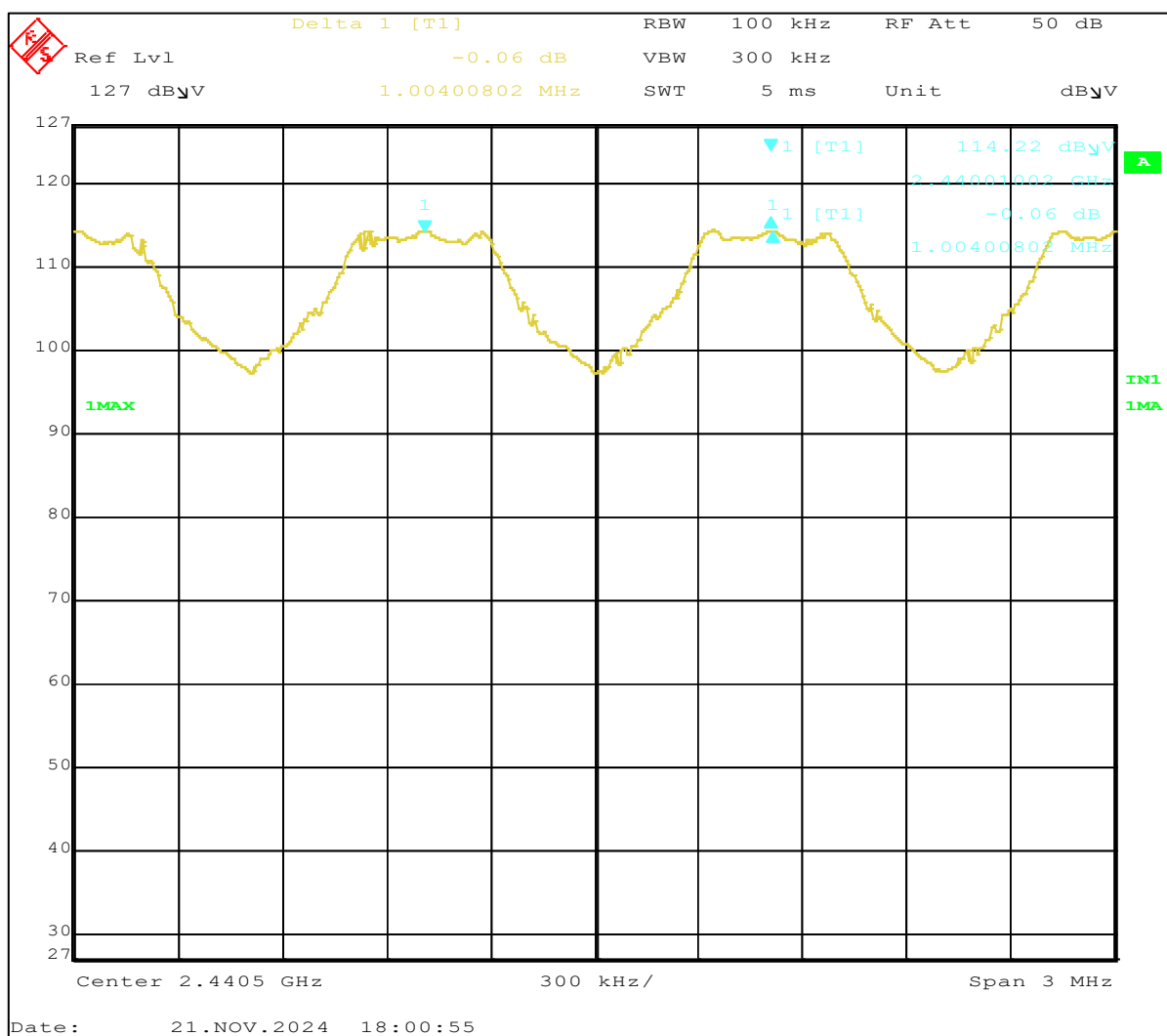


Figure 2. Carrier frequency separation test results. Right channel.

Channel	Marker [MHz]	Delta marker [kHz]	Limit (20dB BW) [kHz]	Margin [kHz]	Result
Right	2440.004	997.9959	889.7796	108.22	PASSED
Left	2440.01	1004.0080	865.7315	138.28	PASSED

Table 1. Carrier frequency separation test results.

2.1.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 2. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
10 (115)

2.2 Number of hopping frequencies

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.247 (a)(1)(iii) RSS 247 5.1 (d)
Test method	ANSI C63.10:2013 sec 7.8.3
Frequency range	2400 – 2483.5 MHz
Limits	47 CFR 15.247 (a)(1) RSS 247 5.1 (d)
Comments	-
Temperature / Humidity	22°C / 37%RH, 23°C / 35%RH
Dates of measurements	2024-11-12, 2024-11-21
Test personnel	Søren Søltøft

2.2.1 Test setup

The temporary antenna connector of the test specimen channel under test was connected directly to the Test receiver.

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
11 (115)

2.2.2 Test results

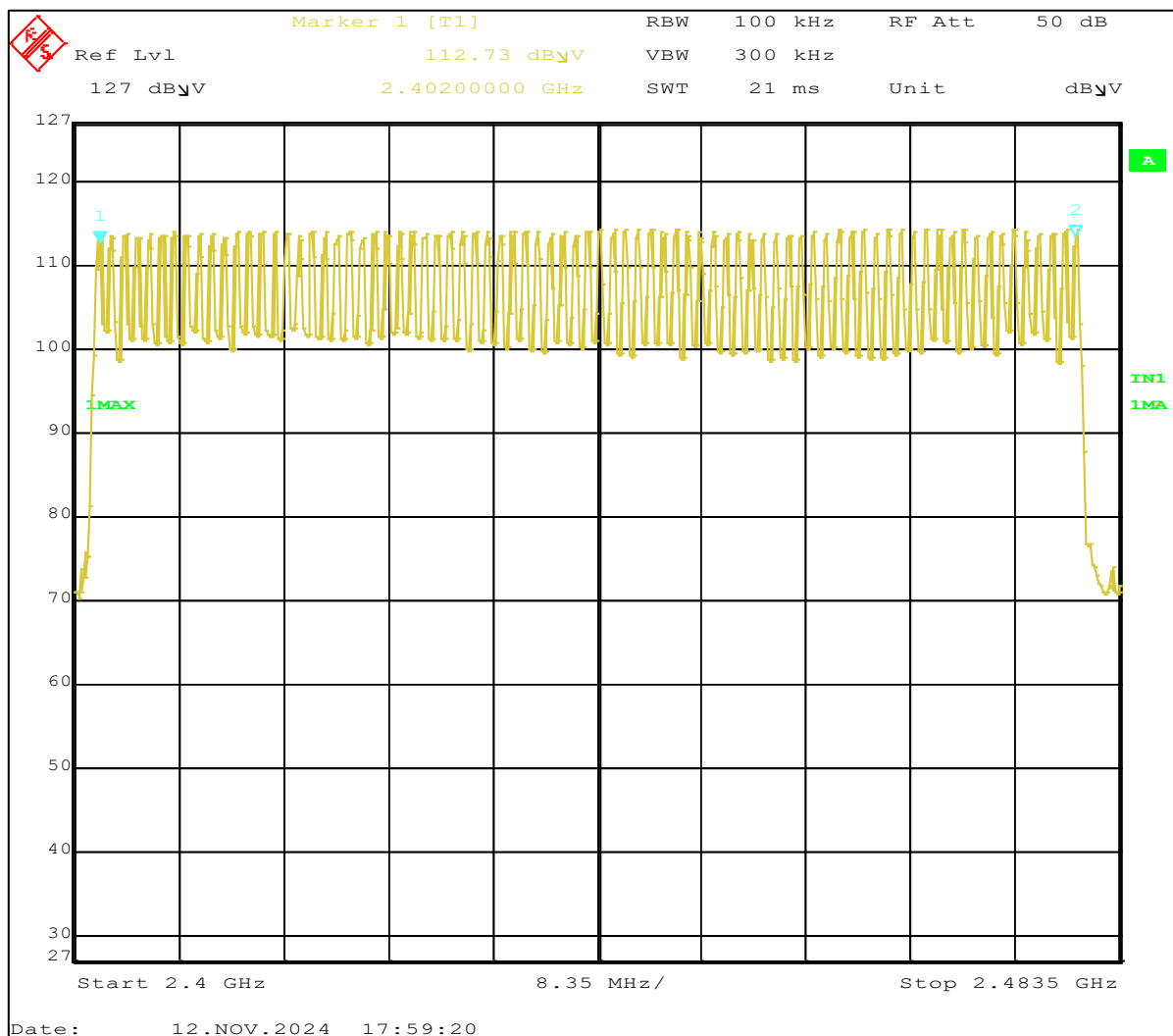


Figure 3. Number of hopping frequencies Right channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
12 (115)

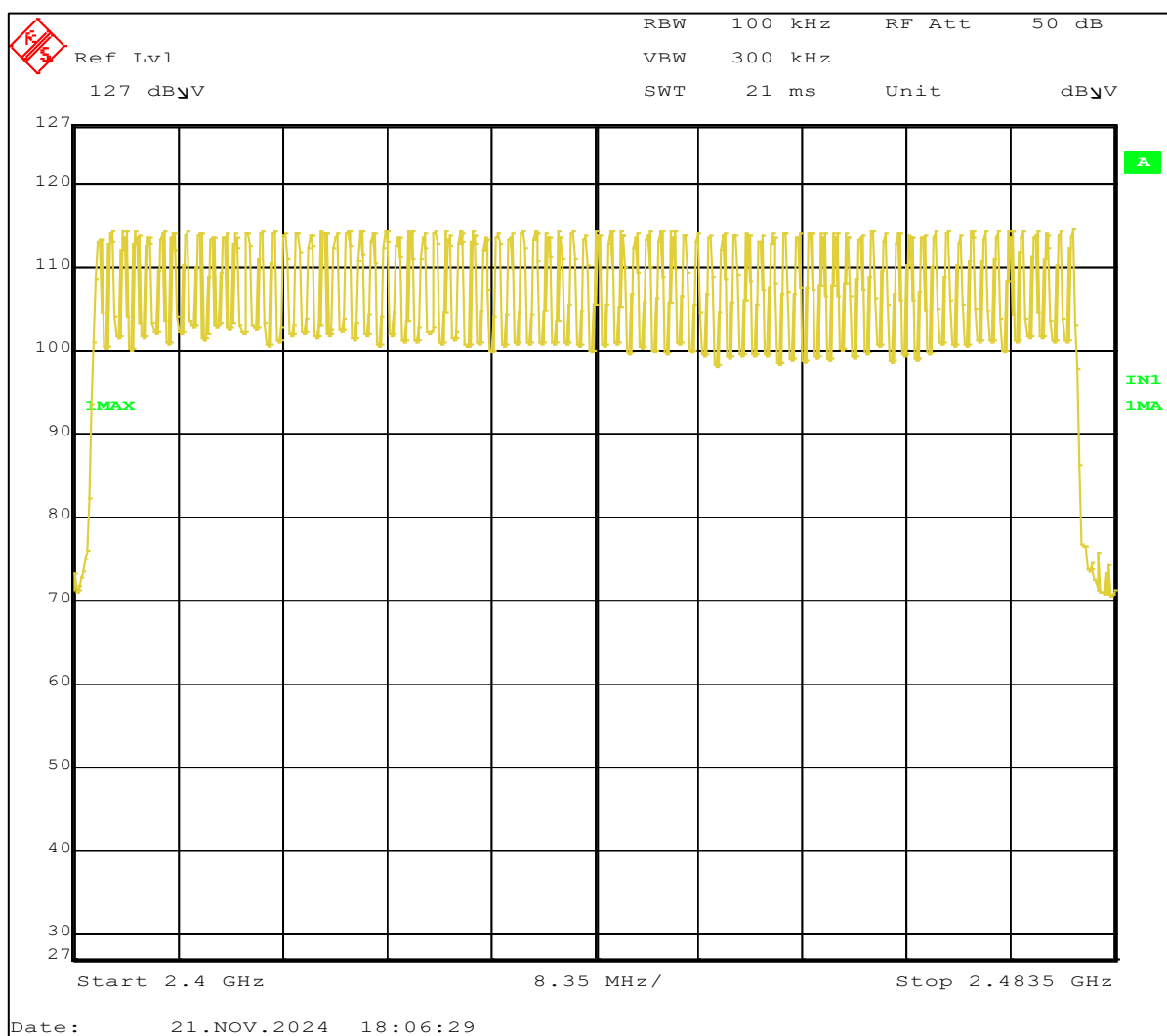


Figure 4. Number of hopping frequencies Left channel.

Channel	Number of hopping frequencies	Minimum number	Margin	Result
Right	79	15	64	PASSED
Left	79	15	64	PASSED

Table 3. Carrier frequency separation test results.

2.2.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 4. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
13 (115)

2.3 Time of occupation

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.247 (a)(1)(iii) RSS 247 5.1 (d)
Test method	ANSI C63.10:2013 sec 7.8.4
Limits	47 CFR 15.247 (a)(1)(iii) RSS 247 5.1 (d)
Comments	-
Temperature / Humidity	23°C / 44%RH, 23°C / 35%RH
Dates of measurements	2024-11-12, 2024-11-21
Test personnel	Søren Søltøft

2.3.1 Test setup

The temporary antenna connector of the test specimen channel under test was connected directly to the Test receiver.

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
14 (115)

2.3.2 Test results

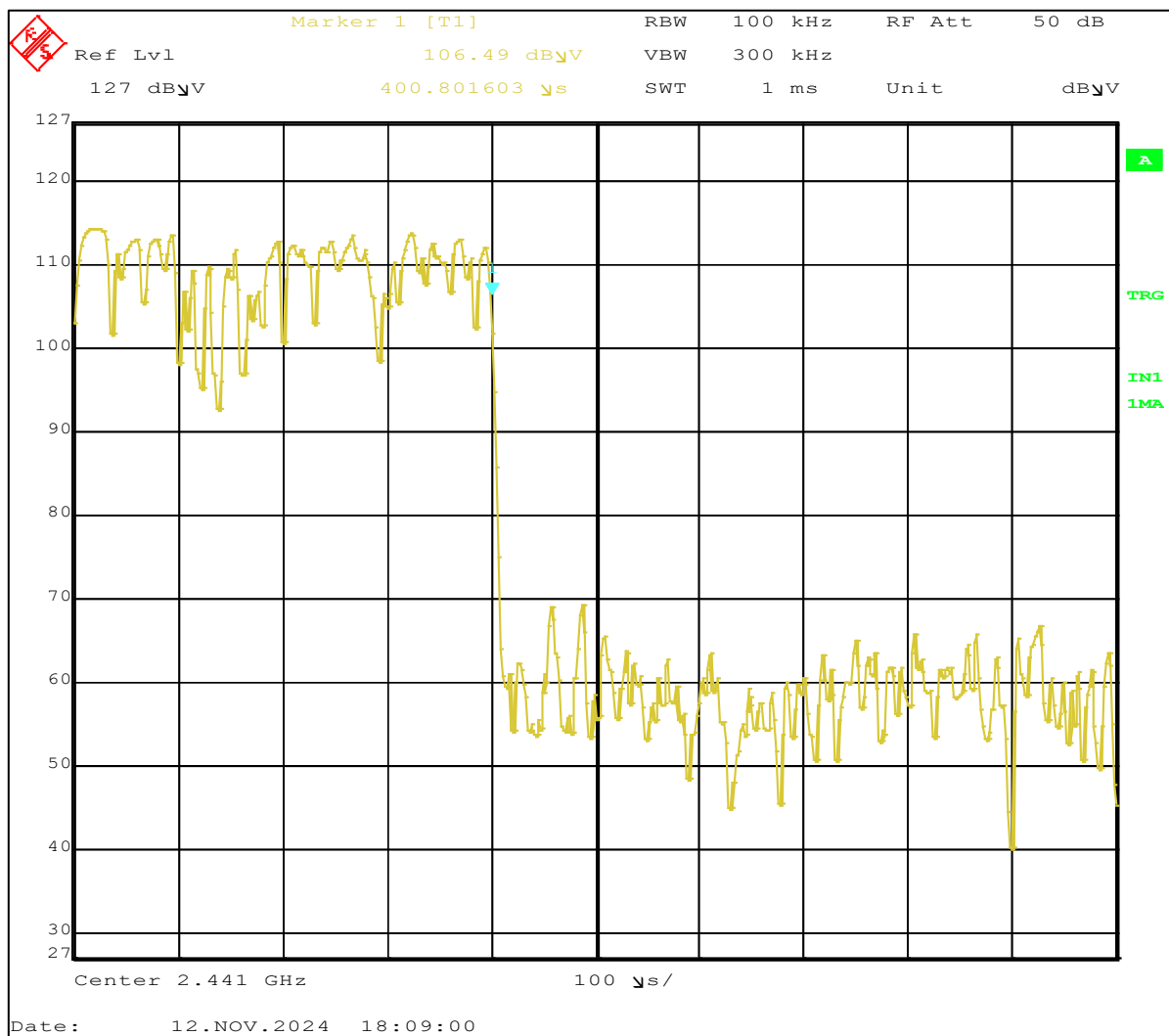


Figure 5. Singel hop. Base Right radio.

Dwell time on channel: 0.4008 ms

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
15 (115)

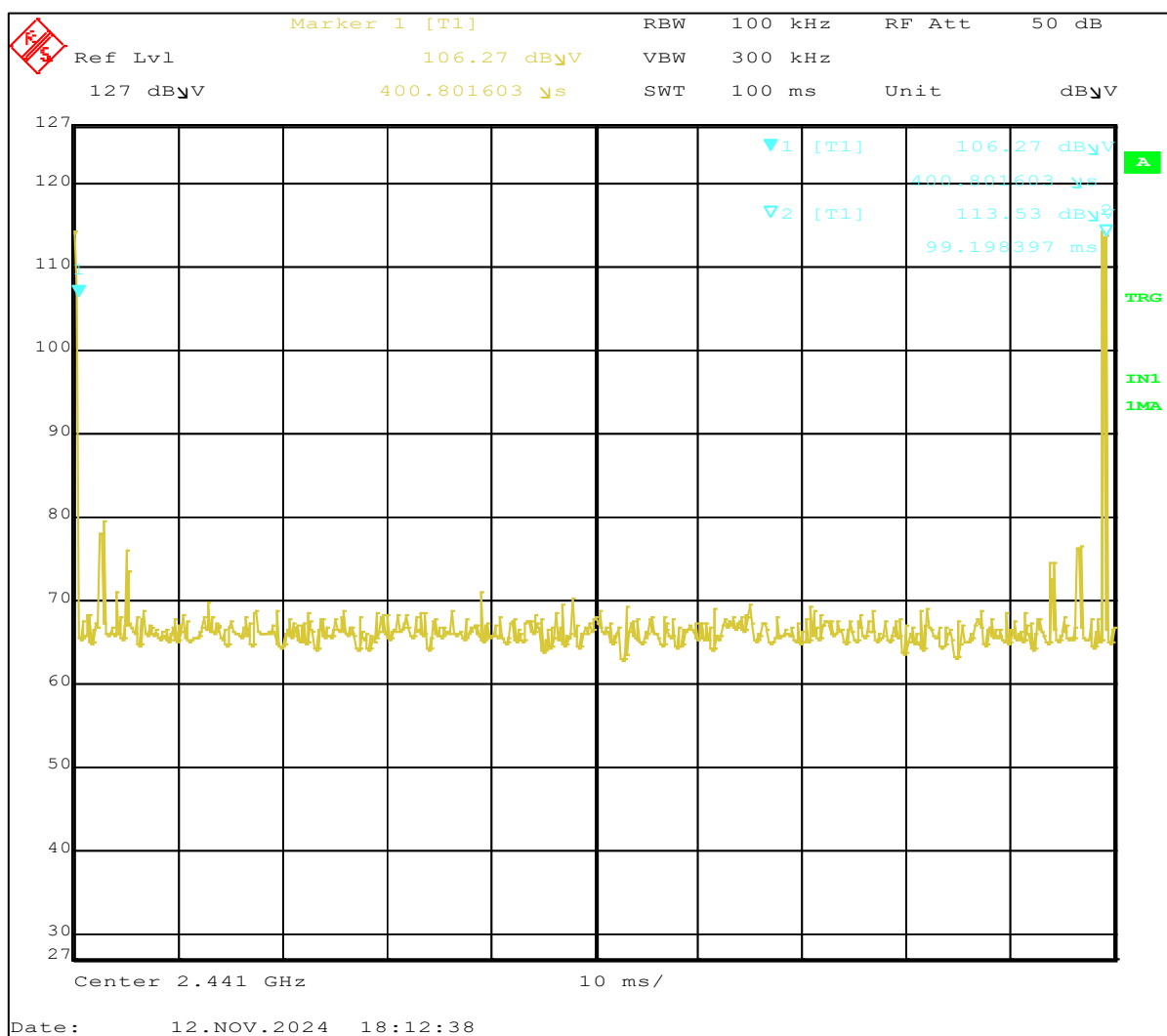


Figure 6. Dual hops. Base Right radio.

Time between two use of channel: 98.4 ms.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

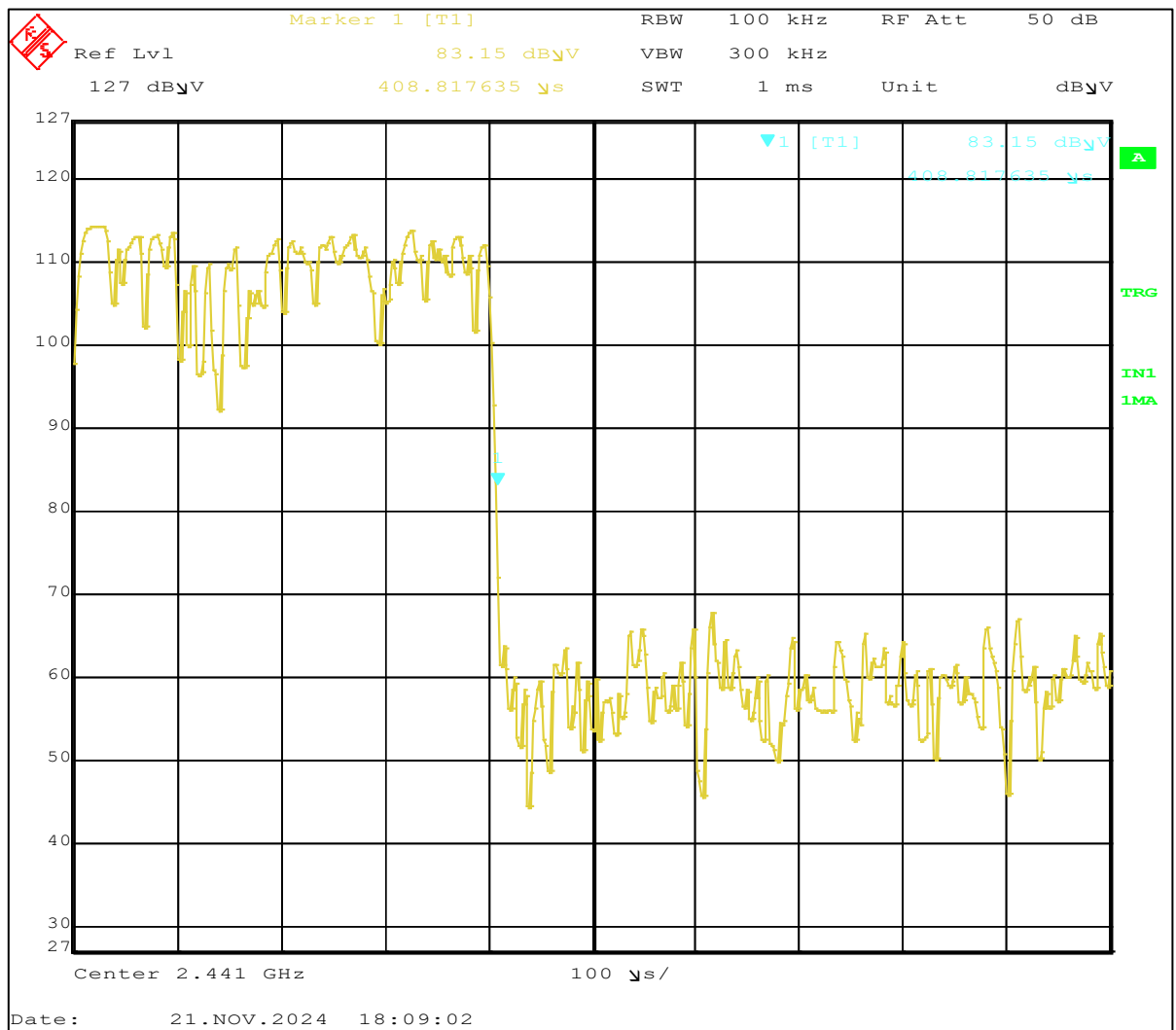
Page
16 (115)

Figure 7. Singel hop. Base Left radio.

Dwell time on channel: 0.4008 ms.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
17 (115)

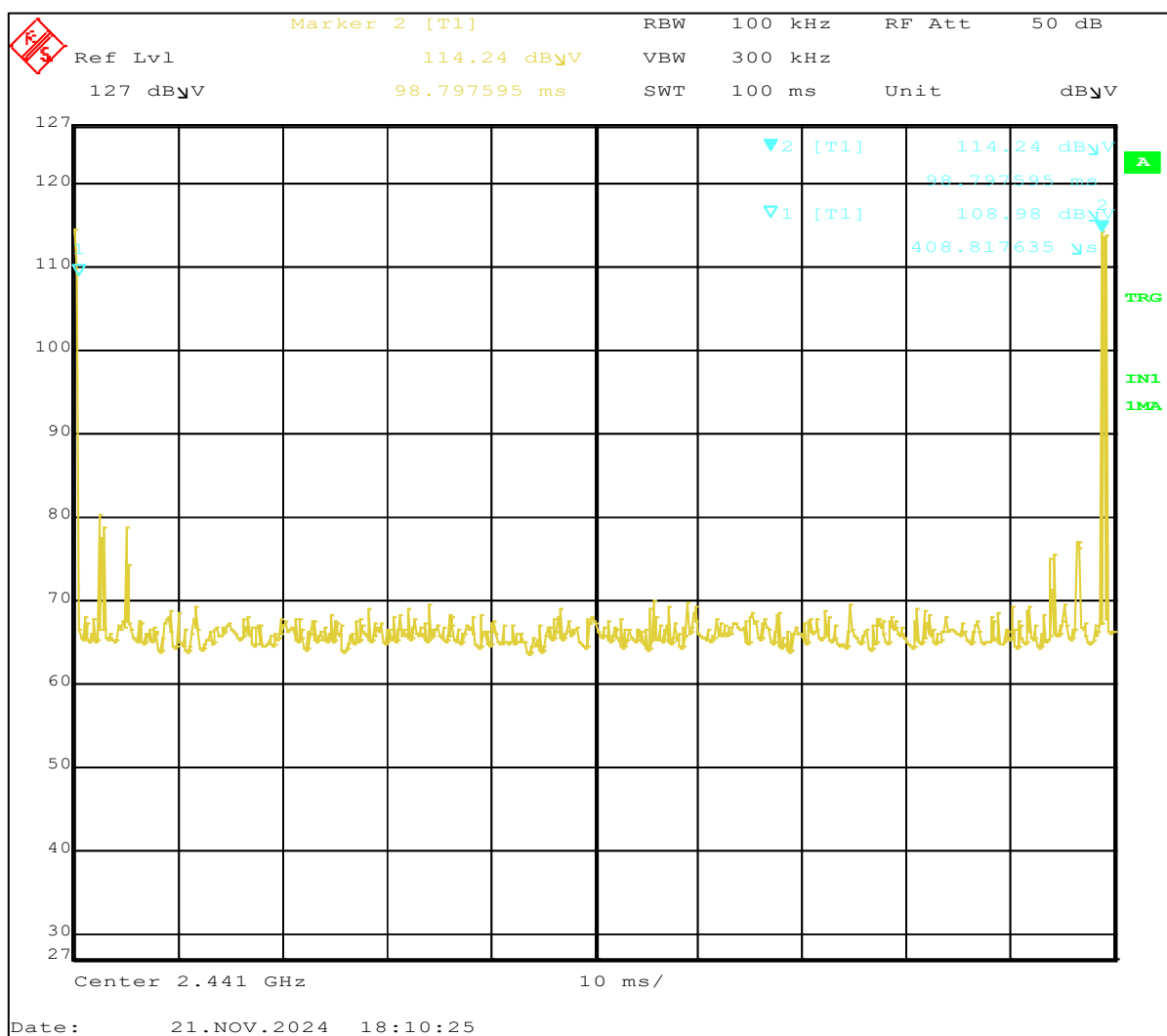


Figure 8. Dual hops. Base Left radio.

Time between two use of channel: 98.4 ms.

The number of hopping channels is 79, which results in an observation time of $0.4 \text{ s} \times 79 = 31.6 \text{ s}$.

Radio	Dwell time [ms]	Time between hops [ms]	Dwell time in observation time [s]	Observation time [s]	Margin [s]	Limit [s]	Result
Right	0.4	98.4	0.129	31.6	0.27	0.4	PASSED
Left	0.4	98.4	0.129	31.6	0.27	0.4	PASSED

2.3.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 5. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
18 (115)

2.4 Output power

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.247 (b)(1) RSS 247 5.4 (b)
Test method	ANSI C63.10:2013 sec 7.8.5
Frequency band	2400 – 2483.5 MHz
Limits	FCC 47 CFR Part 15.247 (b)(1) RSS 247 5.4 (b)
Comments	-
Temperature / Humidity	23°C / 44%RH, 23°C / 35%RH
Dates of measurements	2024-11-12, 2024-11-21
Test personnel	Søren Søltøft

2.4.1 Test setup

The temporary antenna connector of the test specimen channel under test was connected directly to the Test receiver.

The test was performed with the test specimen radios (Left and Right) at a single frequency and hopping disabled.

The measuring RBW was greater than the 20 dB bandwidth.

The test was performed at Low, Middle and High channel on both Left and Right radio.

Low: 2402 MHz

Middle: 2441 MHz

High: 2480 MHz

The limit stated in FCC 47 CFR Part 15.247 (b)(1) are 1 W for frequency hopping system employing at least 70 non-overlapping hopping channels or 0.125 W for all other frequency hopping system.

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
19 (115)

2.4.2 Test results

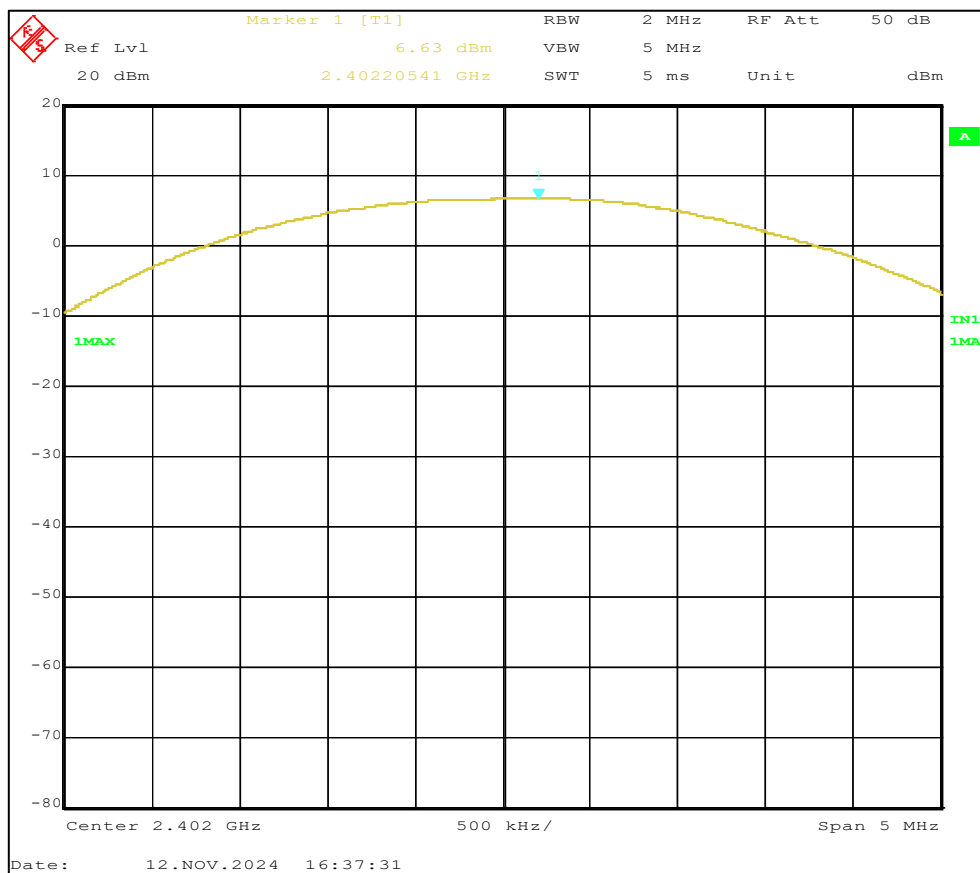


Figure 9. Output power. Right radio 2402 MHz.

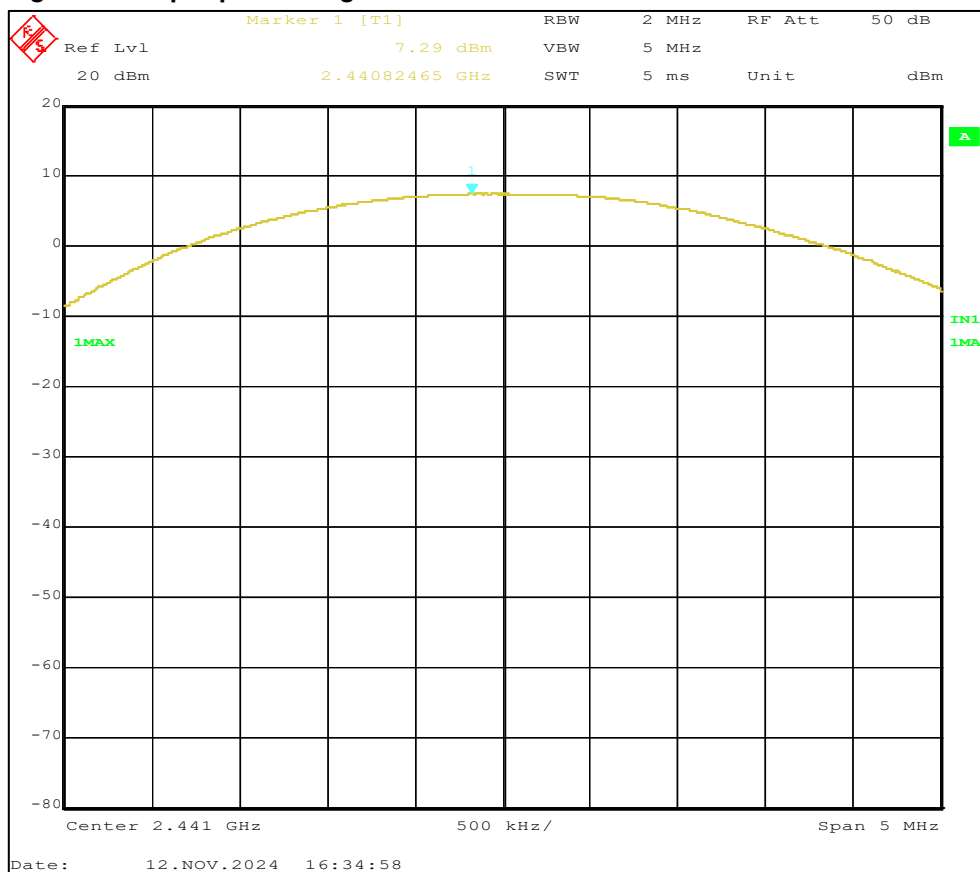


Figure 10. Output power. Right radio 2441 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
20 (115)

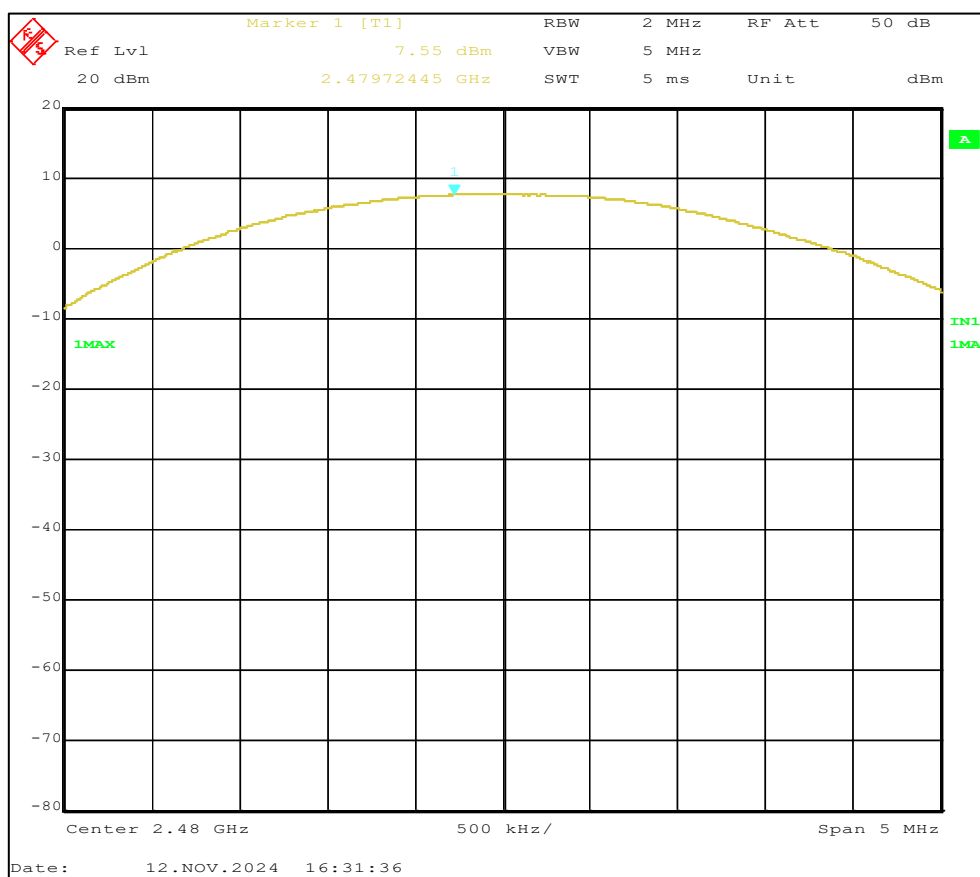


Figure 11. Output power. Right radio 2480 MHz.

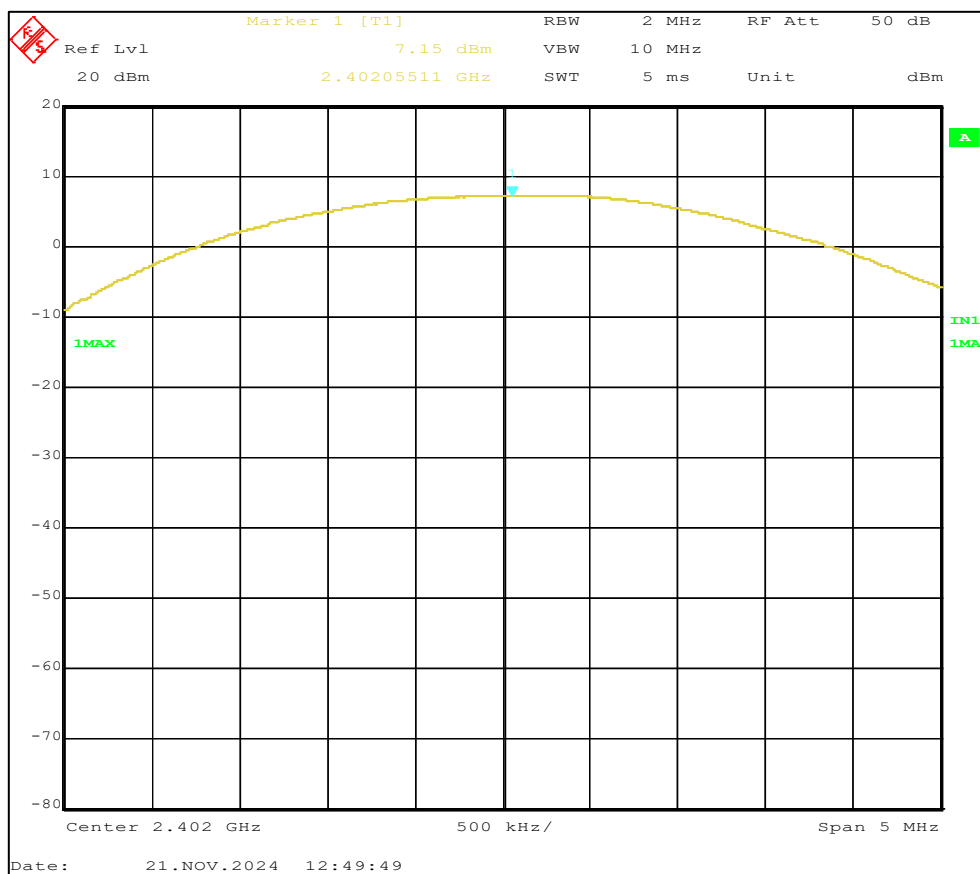


Figure 12. Output power. Left radio 2402 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
21 (115)

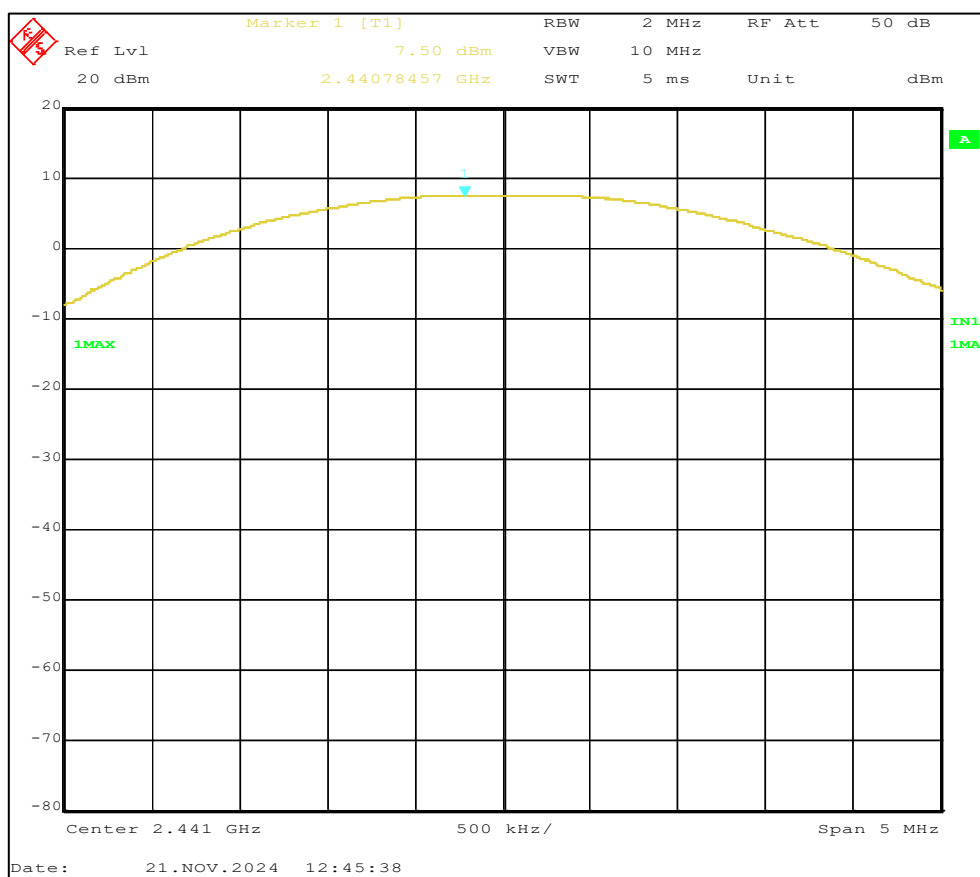


Figure 13. Output power. Left radio 2441 MHz.

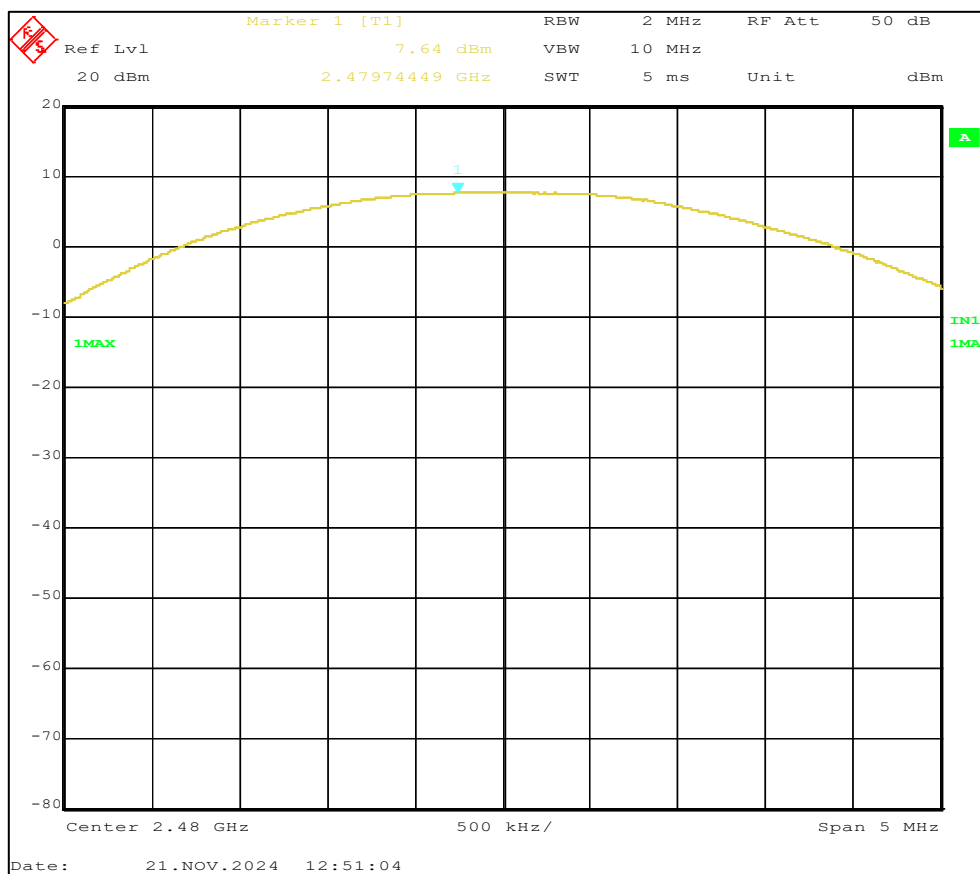


Figure 14. Output power. Left radio 2480 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
22 (115)

Radio	Frequency [MHz]	Output power [dBm]	Output power [mW]	Limit [mW]	Margin [mW]	Result
Right	2402	6.63	4.6	1000	995.4	PASSED
Right	2441	7.29	5.36	1000	994.64	PASSED
Right	2480	7.55	5.69	1000	994.31	PASSED
Left	2402	7.15	5.19	1000	994.81	PASSED
Left	2441	7.50	5.62	1000	994.38	PASSED
Left	2480	7.64	5.81	1000	994.19	PASSED

Table 6. Output power test result.

2.4.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 7. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
23 (115)

2.5 Occupied bandwidth

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.215 (c) RSS-Gen 6.7
Test method	ANSI C63.10:2020 sec. 7.8.7
Comments	-
Temperature / Humidity	23°C / 44%RH
Dates of measurements	2024-11-12
Test personnel	Søren Søltoft

2.5.1 Test setup

The temporary antenna connector of the test specimen was connected directly to the Test receiver.

The test was performed with the test specimen radios at a single frequency and hopping disabled.

The test was performed at Low, Middle and High channel on both Left and Right radio.

Low: 2402 MHz
Middle: 2441 MHz
High: 2480 MHz

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
24 (115)

2.5.2 Test results

2.5.2.1 20 dB OBW

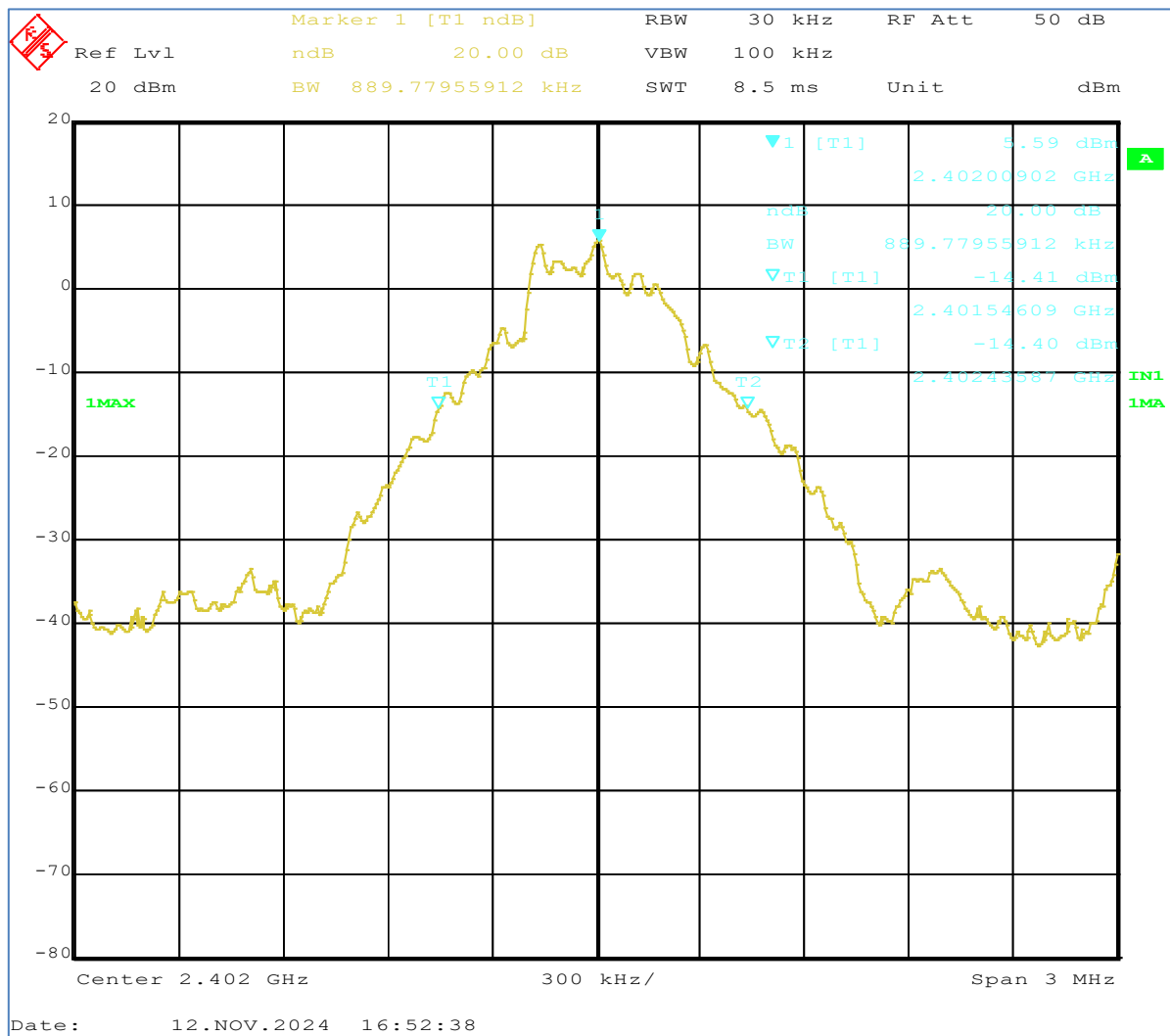


Figure 15. 20 dB Occupied bandwidth. Right 2402 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
25 (115)

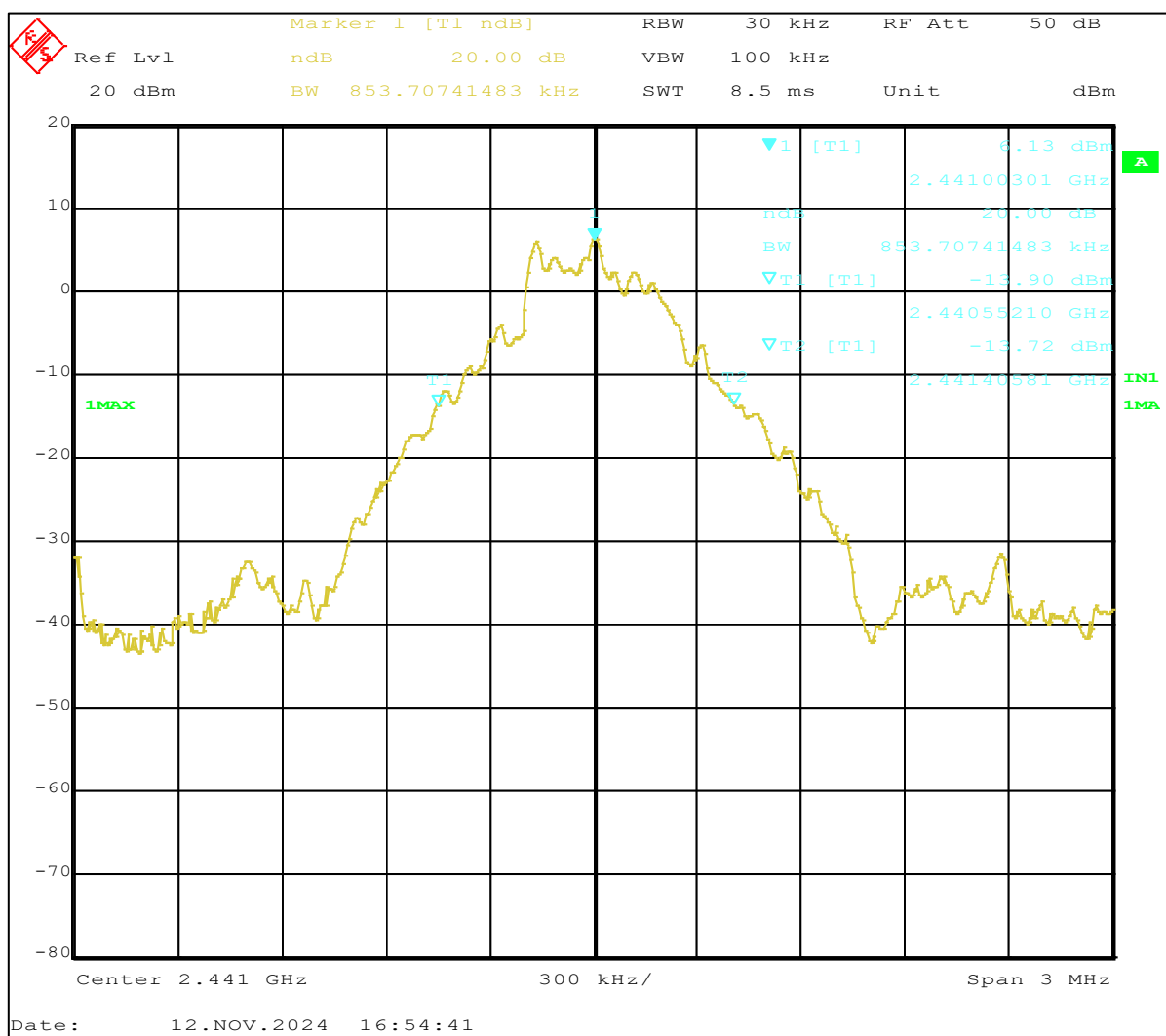


Figure 16. 20 dB Occupied bandwidth. Right 2441 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

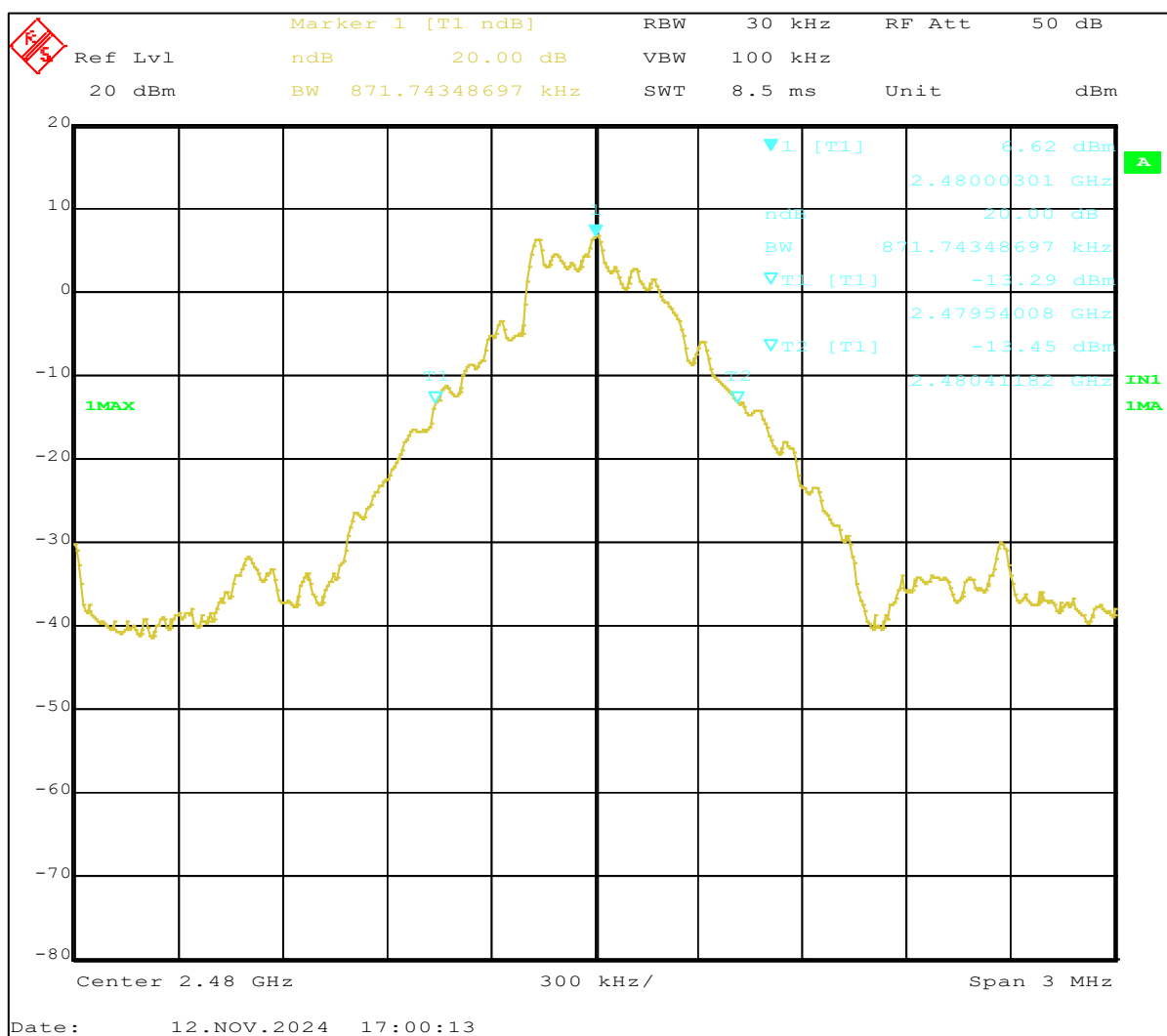
Page
26 (115)

Figure 17. 20 dB Occupied bandwidth. Right 2480 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
27 (115)

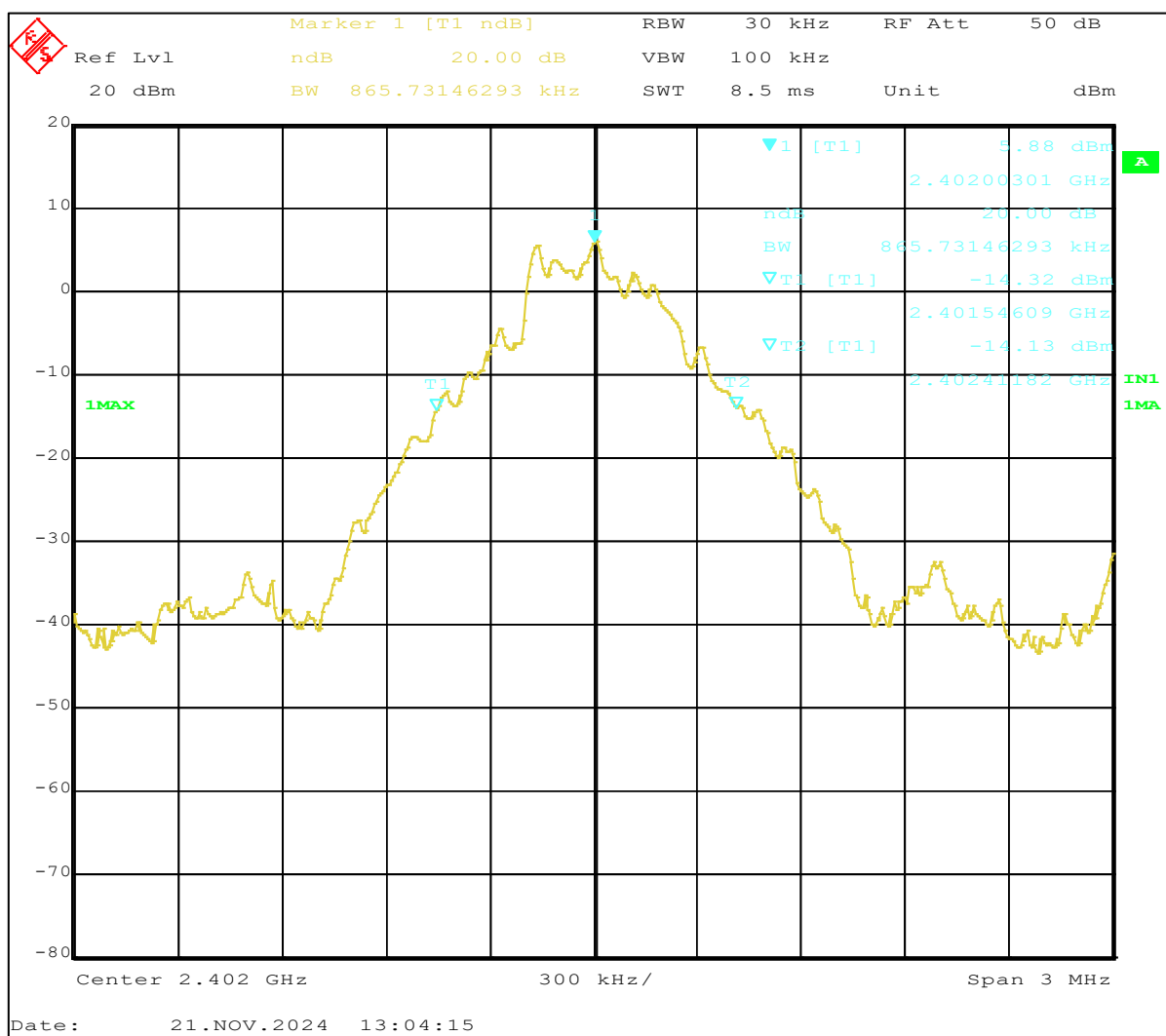


Figure 18. 20 dB Occupied bandwidth. Left 2402 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
28 (115)

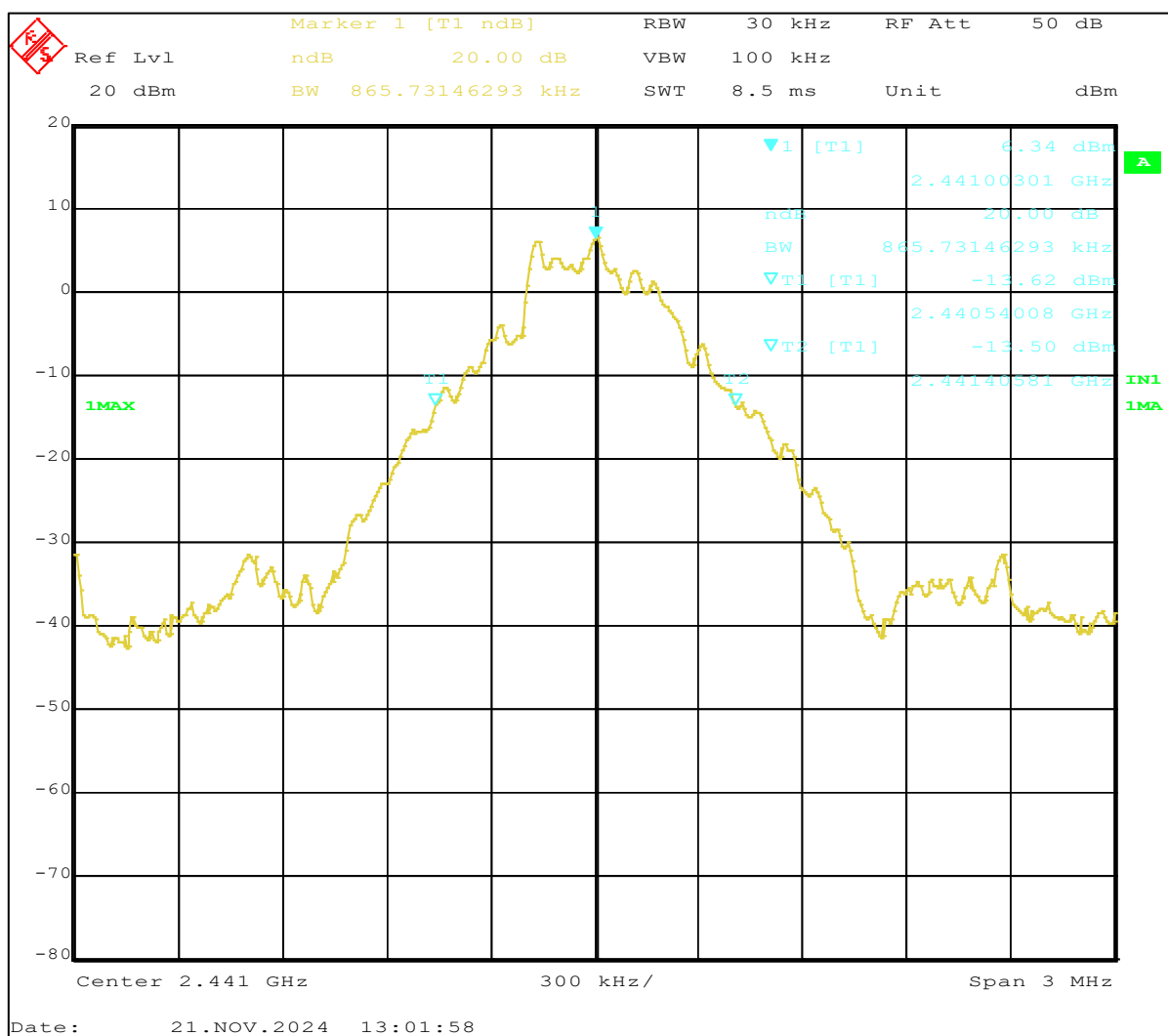


Figure 19. 20 dB Occupied bandwidth. Left 2441 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
29 (115)

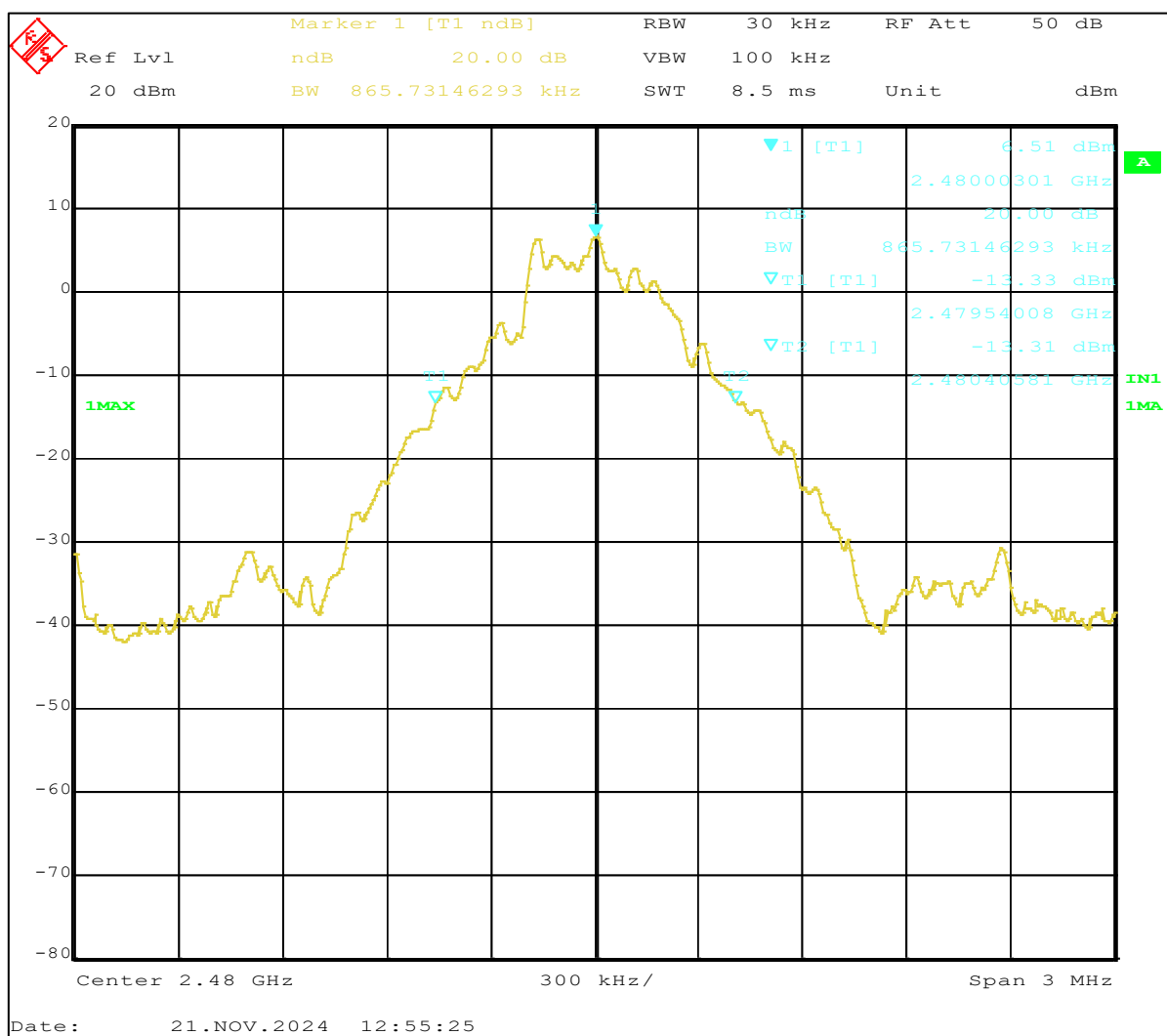


Figure 20. 20 dB Occupied bandwidth. Left 2480 MHz.

Radio	Frequency [MHz]	OBW [kHz]	Band limit [MHz]	Margin [MHz]	Result
Right	2402	889.779559	2400	1.555110	PASSED
Right	2441	853.707415	-	-	-
Right	2480	871.743487	2483.5	3.064128	PASSED
Left	2402	865.731463	2400	1.567134	PASSED
Left	2441	865.731463	-	-	-
Left	2480	865.731463	2483.5	3.067134	PASSED

Table 8. 20 dB Occupied bandwidth results.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
30 (115)

2.5.2.2 99% OBW

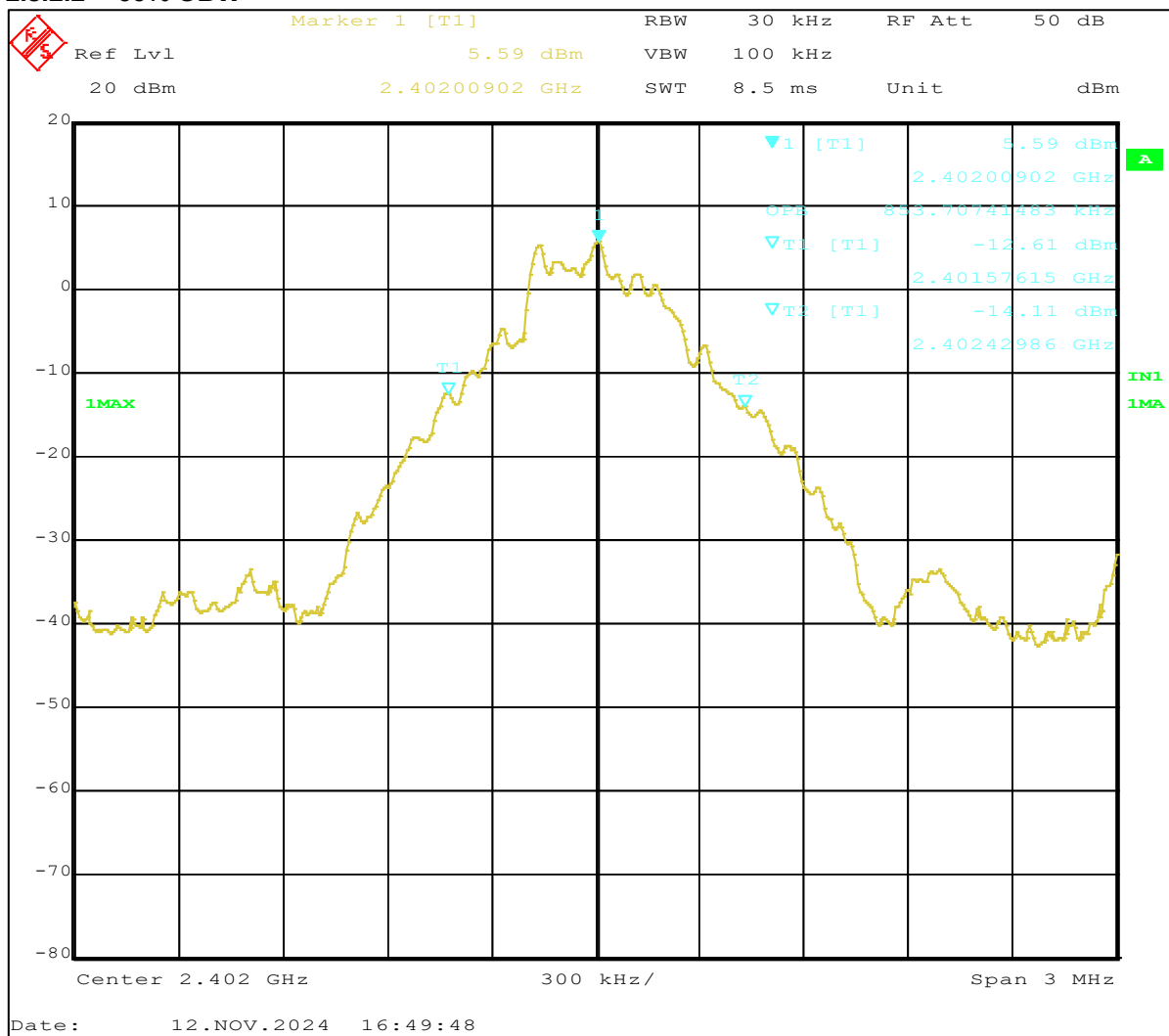


Figure 21. 99% Occupied bandwidth. Right 2402 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
31 (115)

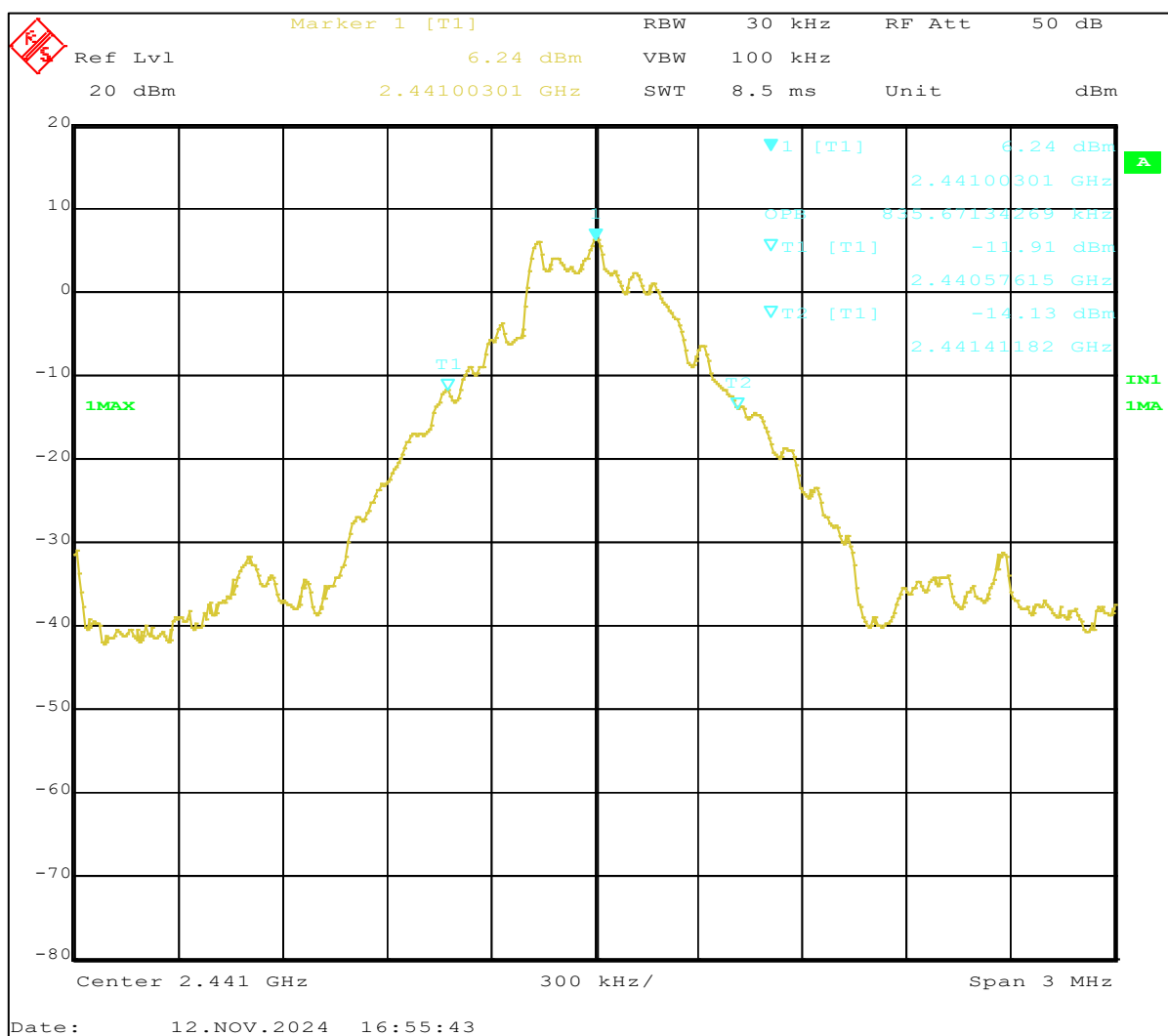


Figure 22. 99% Occupied bandwidth. Right 2441 MHz

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
32 (115)

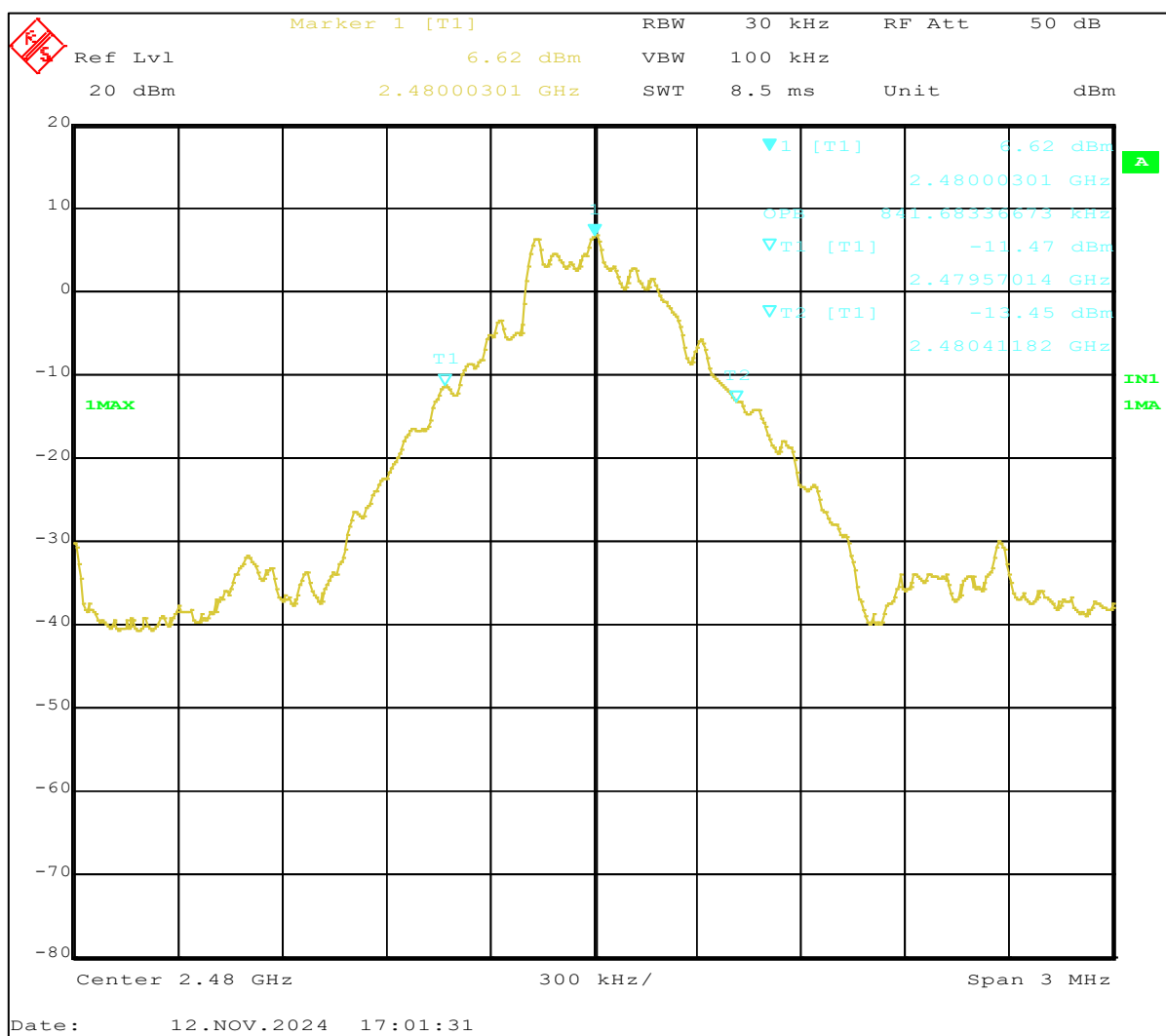


Figure 23. 99% Occupied bandwidth. Right 2480 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
33 (115)

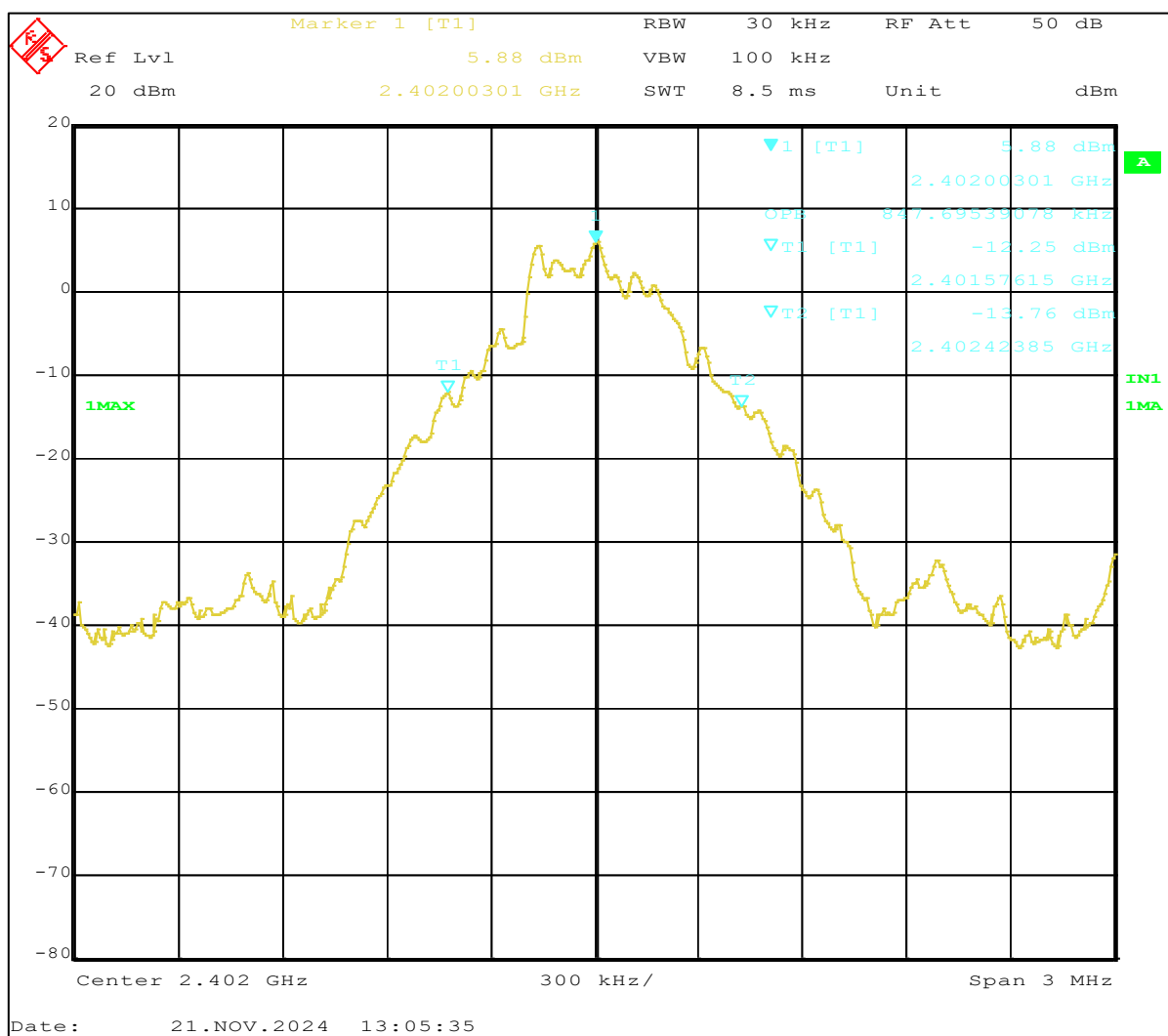


Figure 24. 99% Occupied bandwidth. Left 2402 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
34 (115)

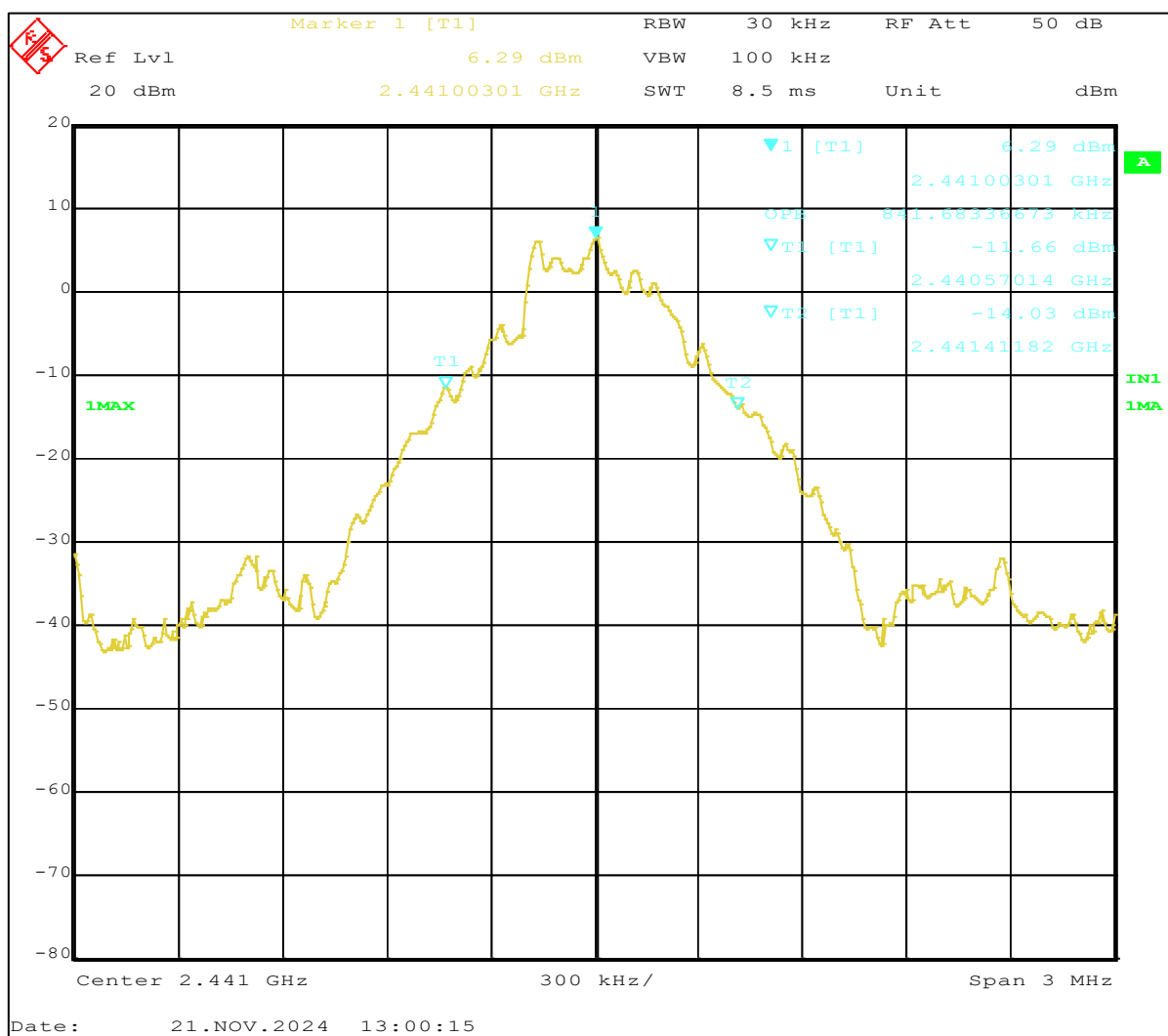


Figure 25. 99% Occupied bandwidth. Left 2441 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
35 (115)

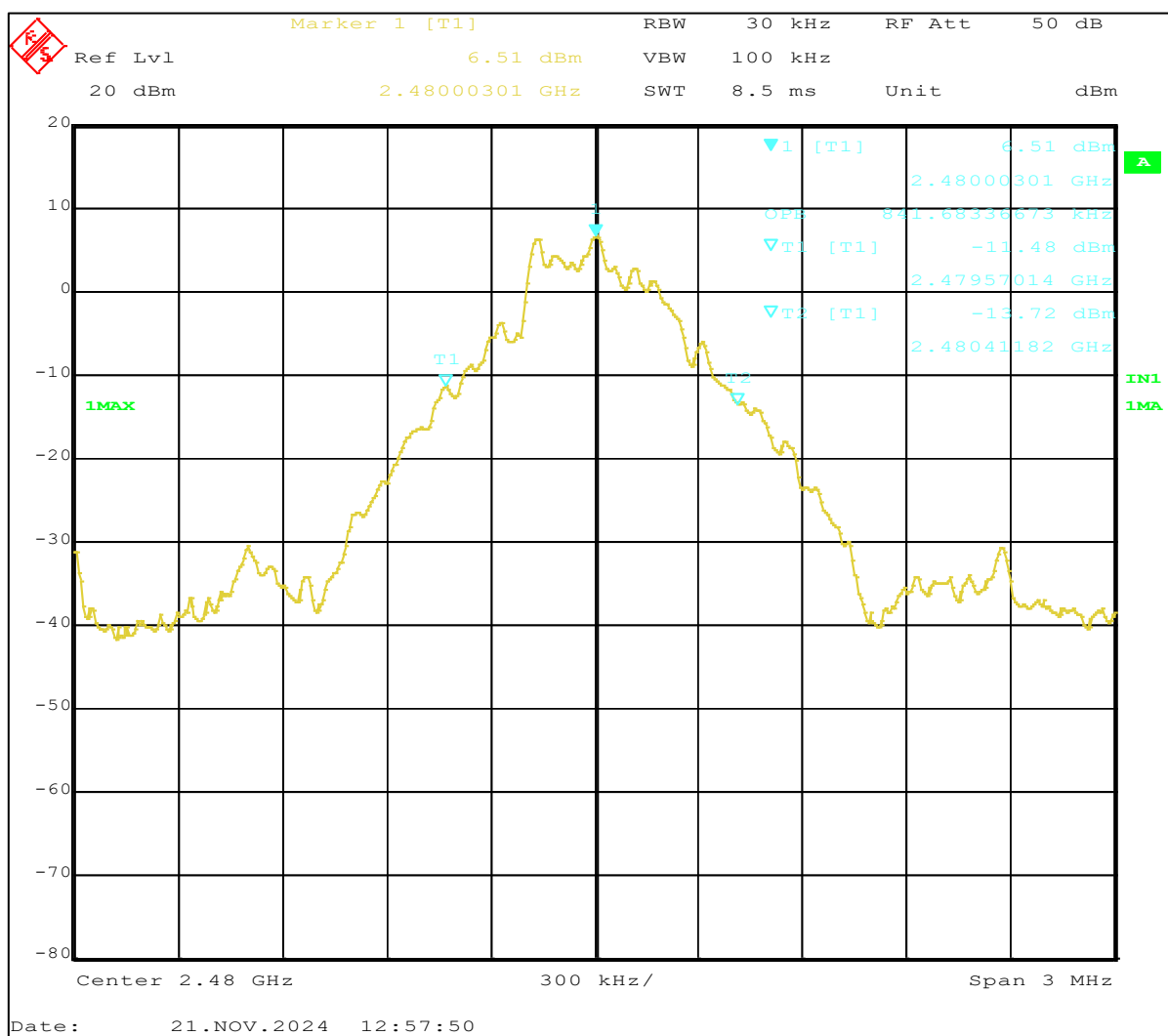


Figure 26. 99% Occupied bandwidth. Left 2480 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
36 (115)

Radio	Frequency [MHz]	OBW [kHz]	Band limit [MHz]	Margin [MHz]	Result
Right	2402	853.707415	2400	1.573146	PASSED
Right	2441	835.671343	-	-	-
Right	2480	841.683367	2483.5	3.079158	PASSED
Left	2402	847.695391	2400	1.576152	PASSED
Left	2441	841.683368	-	-	-
Left	2480	841.683367	2483.5	3.079158	PASSED

Table 9. 99% Occupied bandwidth results.

2.5.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
Receiver EMI Test 20Hz-26.5GHz	Rohde & Schwarz	ESIB 26	30118880	2025-01-24

Table 10. Occupied bandwidth 20 dB and 99% test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
37 (115)

2.6 Conducted spurious emission

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.247 (d) RSS 247 5.5
Test method	ANSI C63.10:2013 sec 7.8.8
Frequency range	30 MHz - 25 GHz
Limits	FCC 47 CFR Part 15.209 (a) RSS 247 5.5
Comments	-
Temperature / Humidity	23°C / 44%RH, 23°C / 35%RH
Dates of measurements	2024-11-12, 2024-11-21
Test personnel	Søren Søltøft

2.6.1 Test setup

The temporary antenna connector of the test specimen was connected directly to the Test receiver

The test was performed with the test specimen radios at a single frequency and hopping disabled.

The test was performed at Low, Middle and High channel on both Left and Right radio.

Low: 2402 MHz
Middle: 2441 MHz
High: 2480 MHz

Limit is set to be 20 dB below the highest level of the fundamental carrier.

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
38 (115)

2.6.2 Test results

2.6.2.1 Right radio.

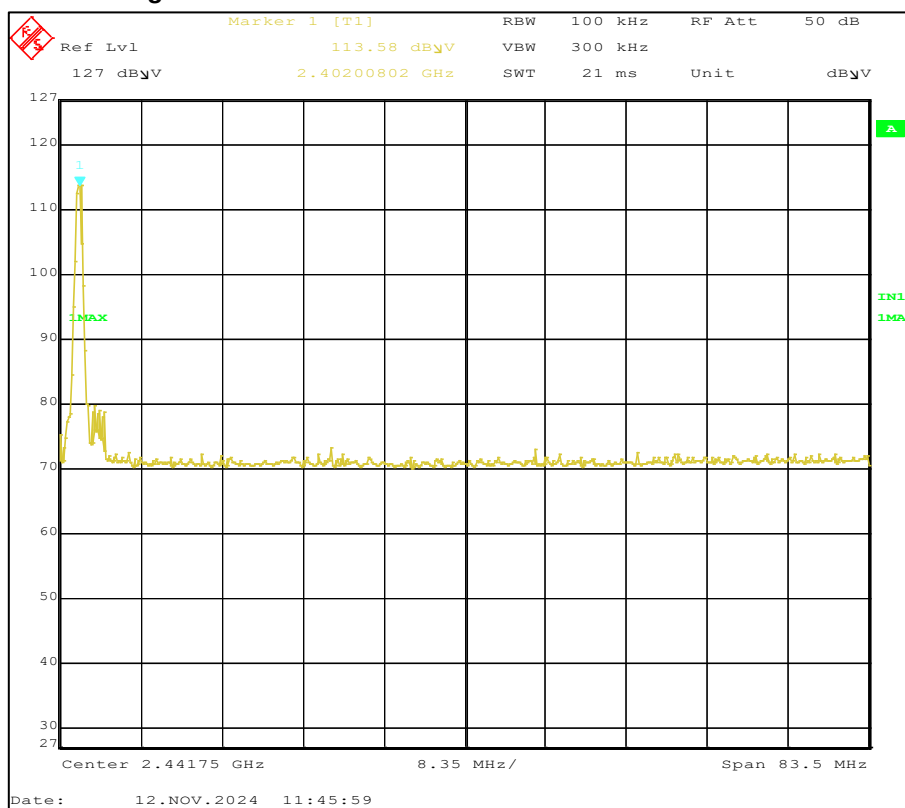


Figure 27. In band measurement of Low channel carrier.

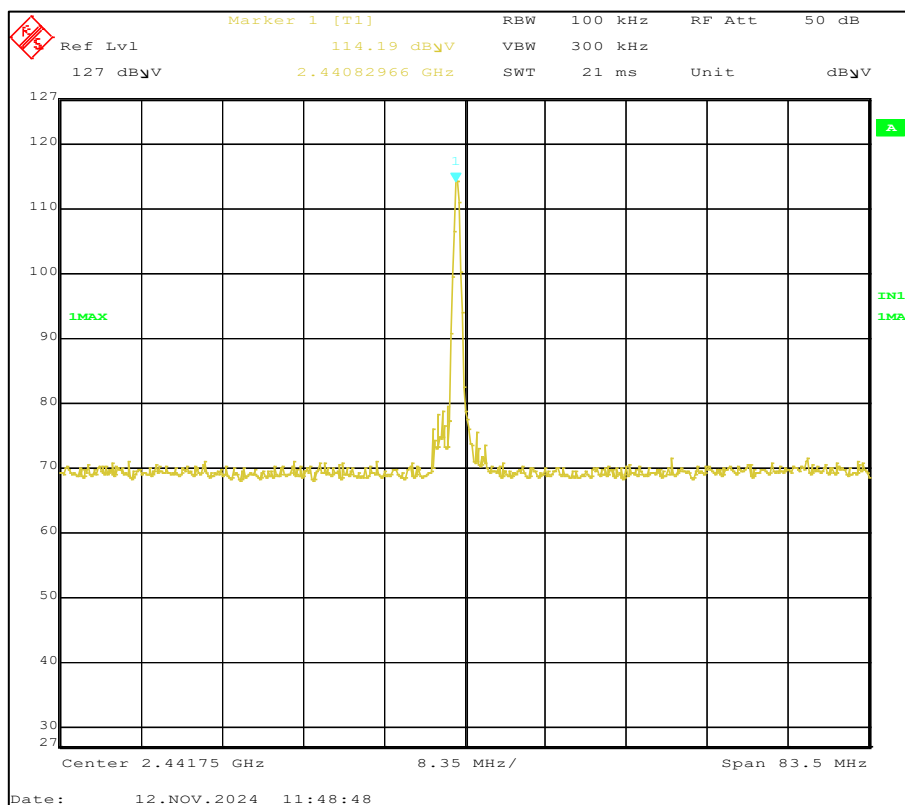


Figure 28. In band measurement of Middle channel carrier.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
39 (115)

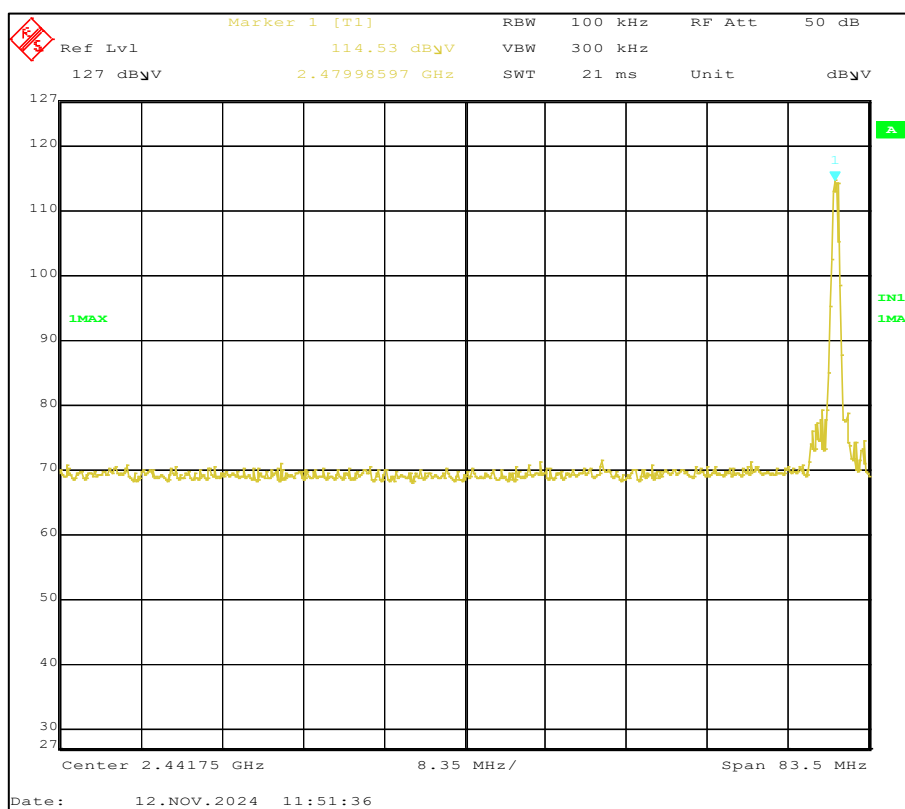


Figure 29. In band measurement of High channel carrier.

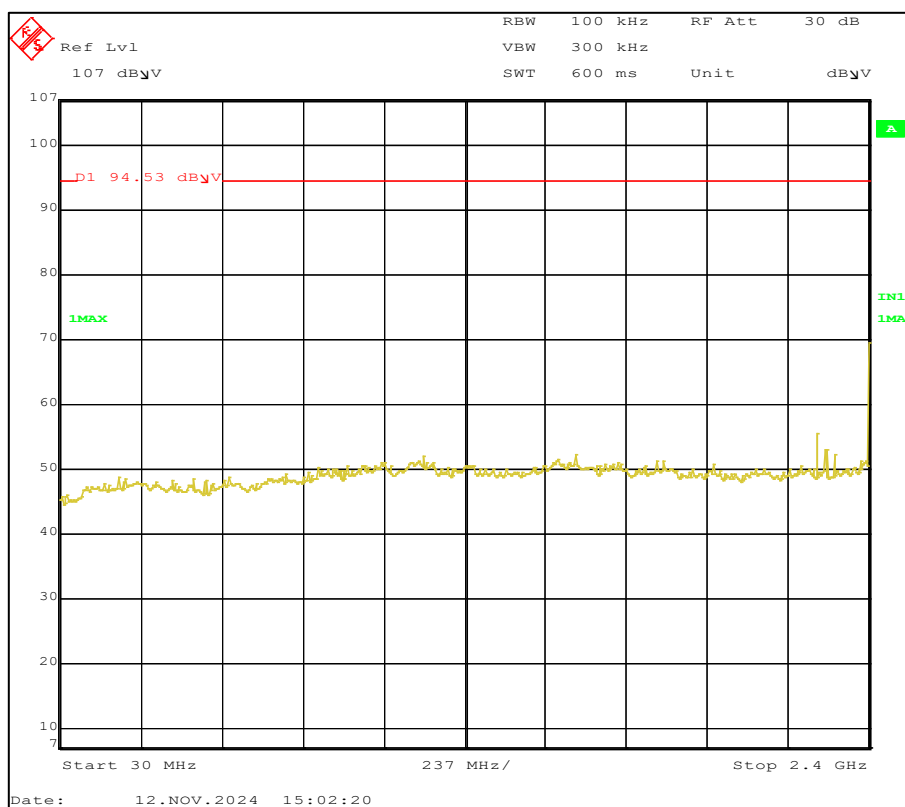


Figure 30. Conducted spurious emission, 30MHz – 2.4GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
40 (115)

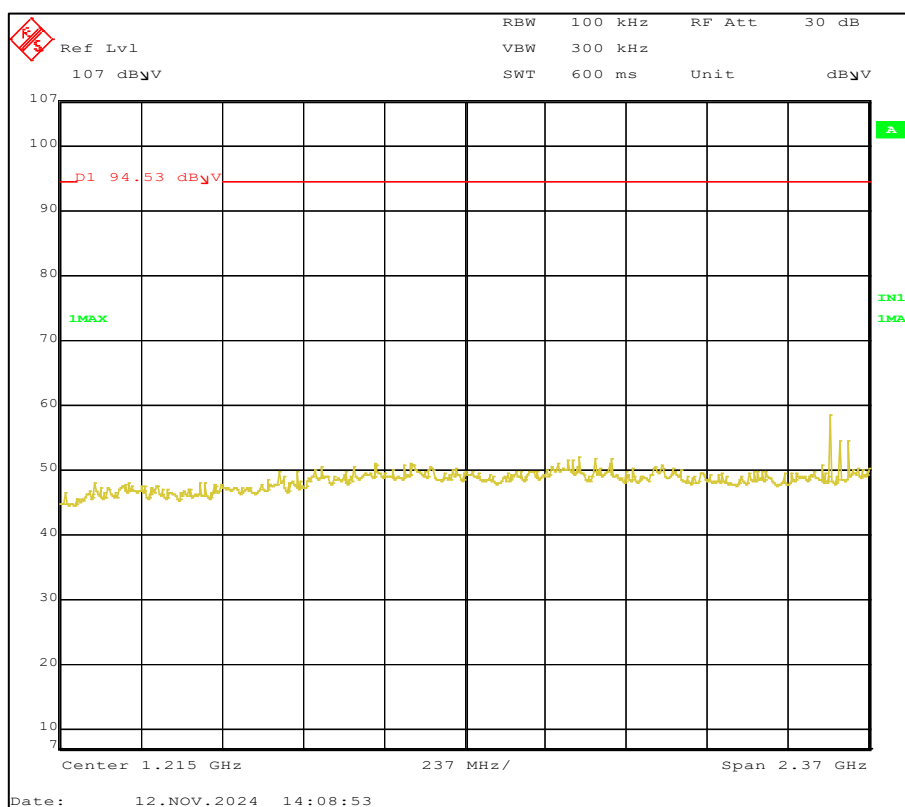


Figure 31. Conducted spurious emission, 30MHz – 2.4GHz. Middle channel.

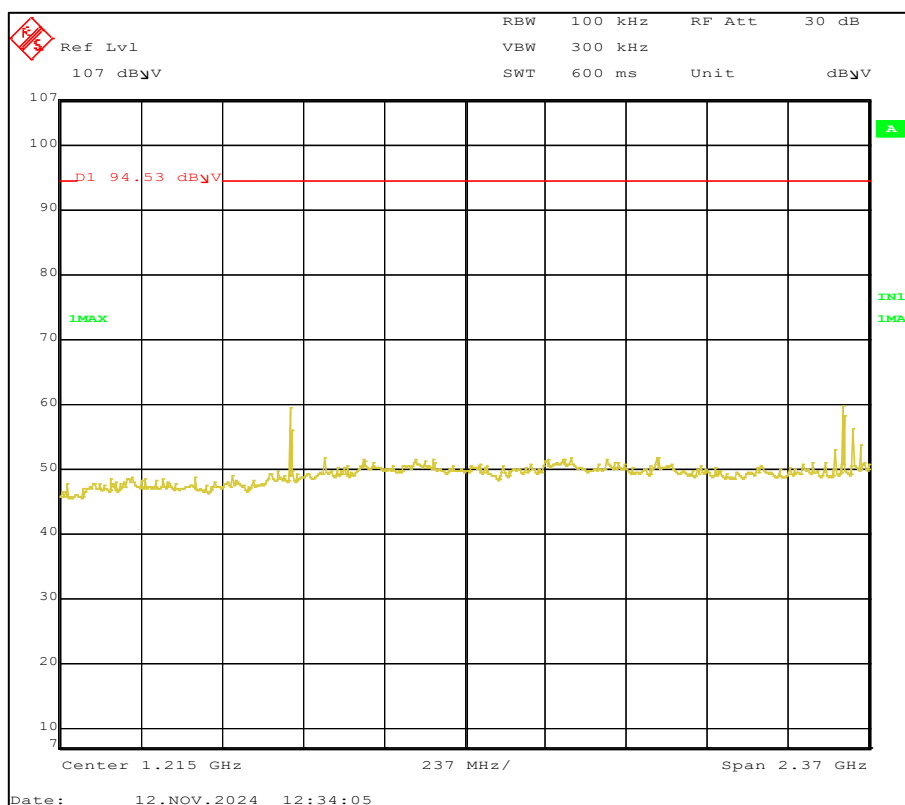


Figure 32. Conducted spurious emission, 30MHz – 2.4GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
41 (115)

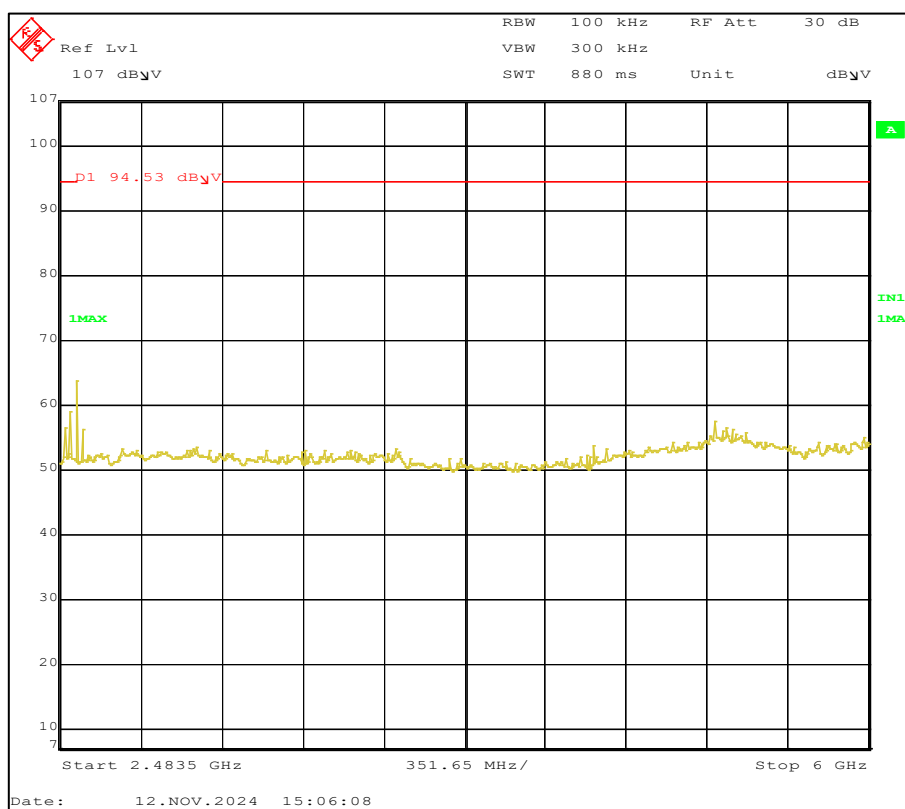


Figure 33. Conducted spurious emission, 2.4835 – 6 GHz. Low channel.

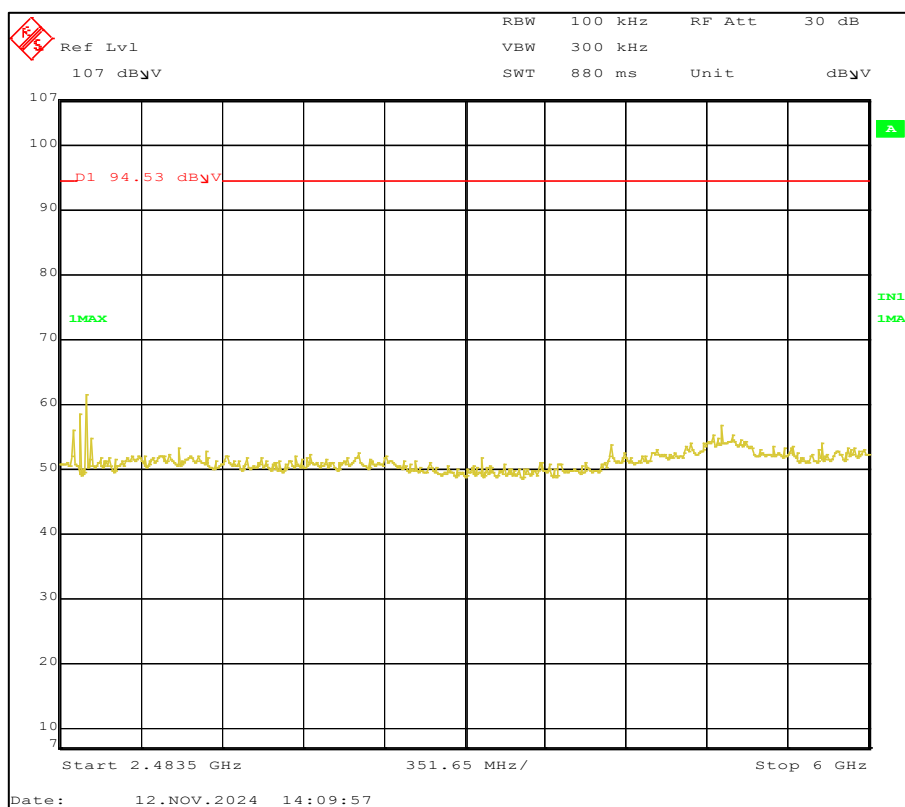


Figure 34. Conducted spurious emission, 2.4835 – 6 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
42 (115)

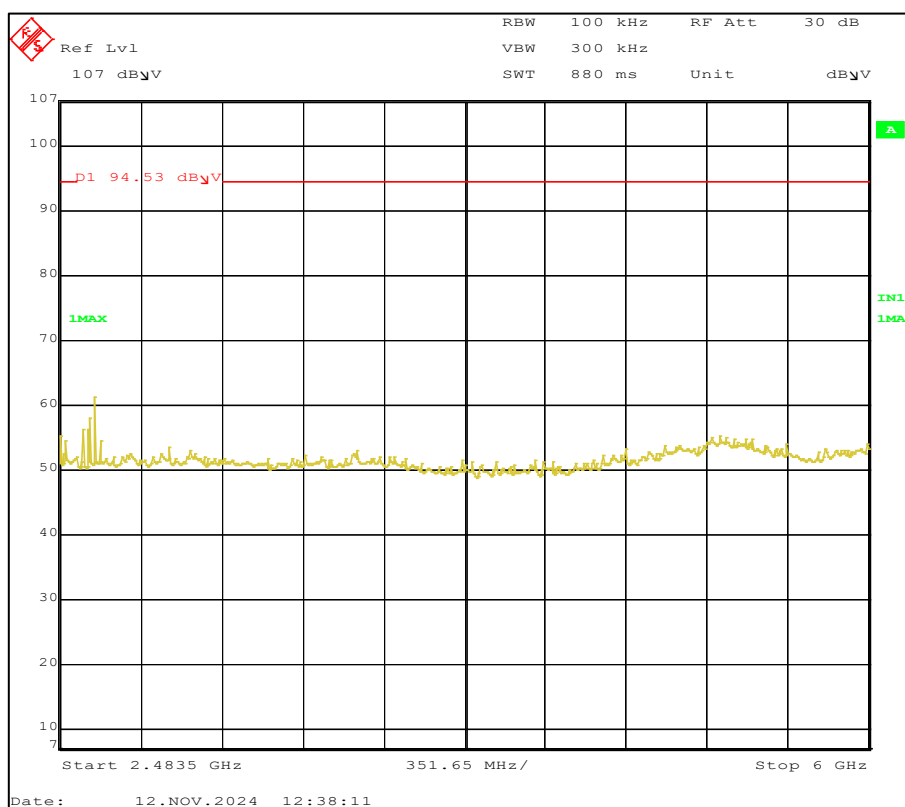


Figure 35. Conducted spurious emission, 2.4835 – 6 GHz. High channel.

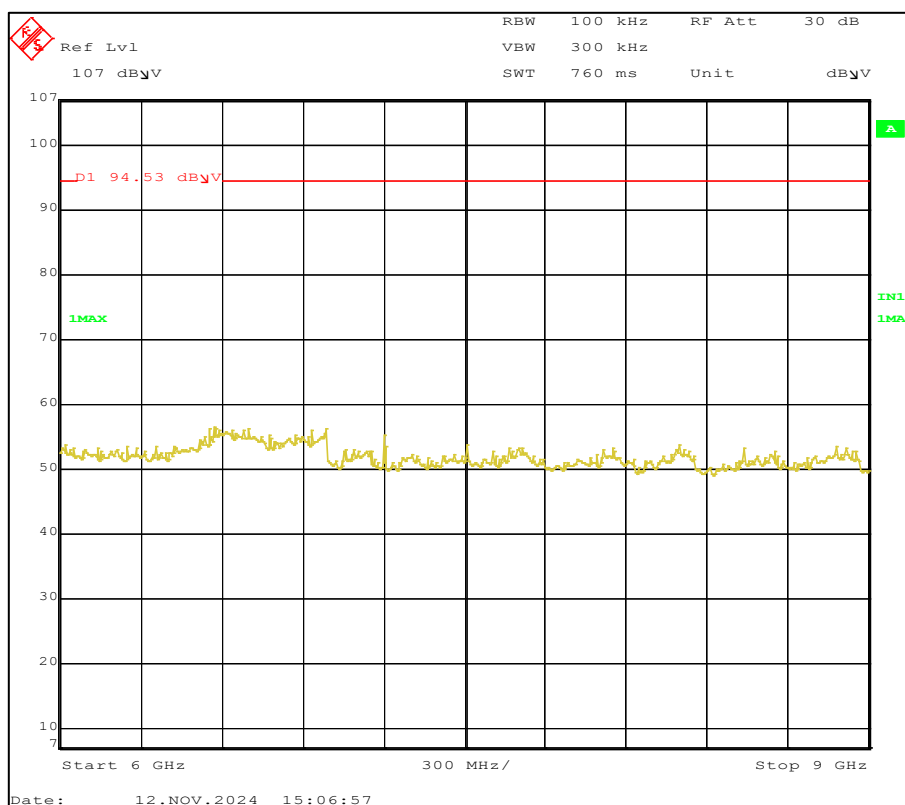


Figure 36. Conducted spurious emission, 6 - 9 GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
43 (115)

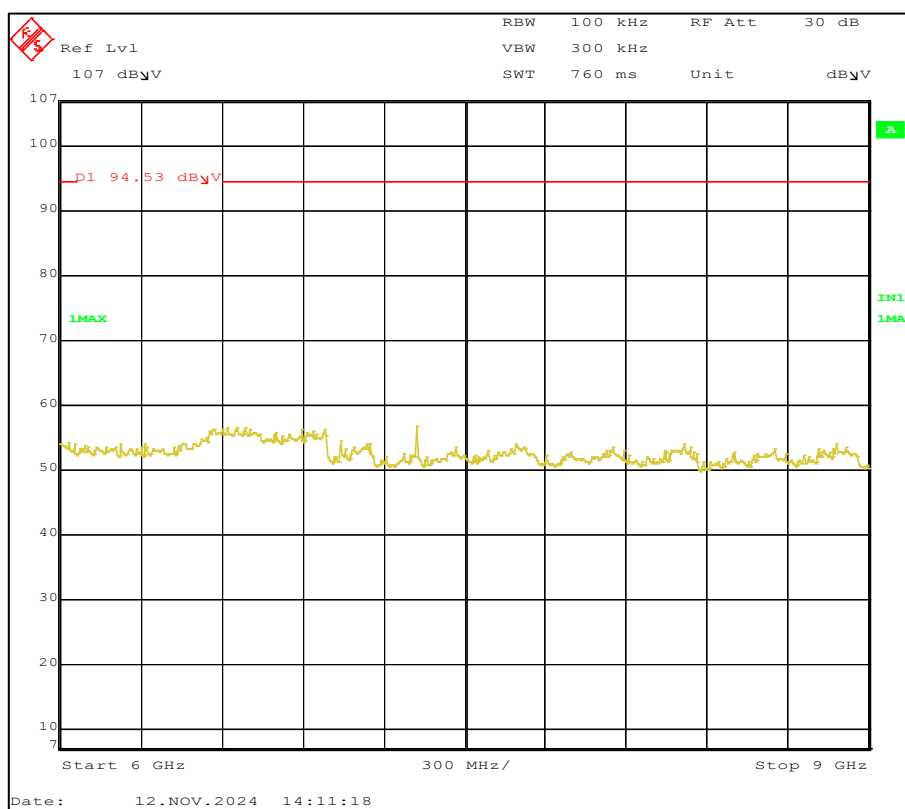


Figure 37. Conducted spurious emission, 6 - 9 GHz. Middle channel.

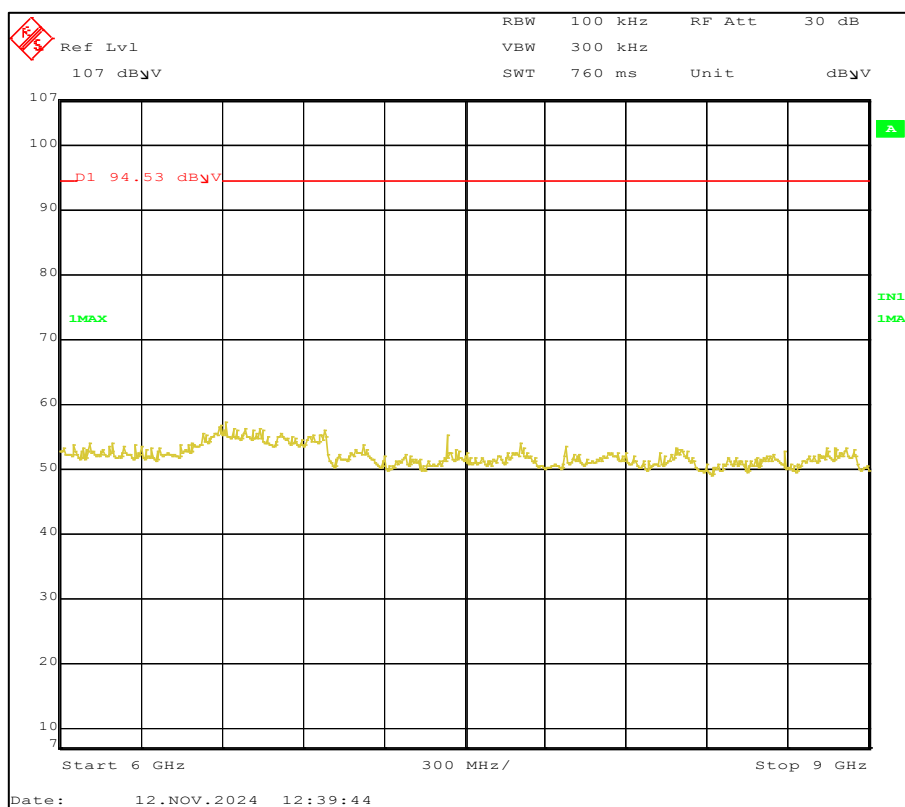


Figure 38. Conducted spurious emission, 6 - 9 GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
44 (115)

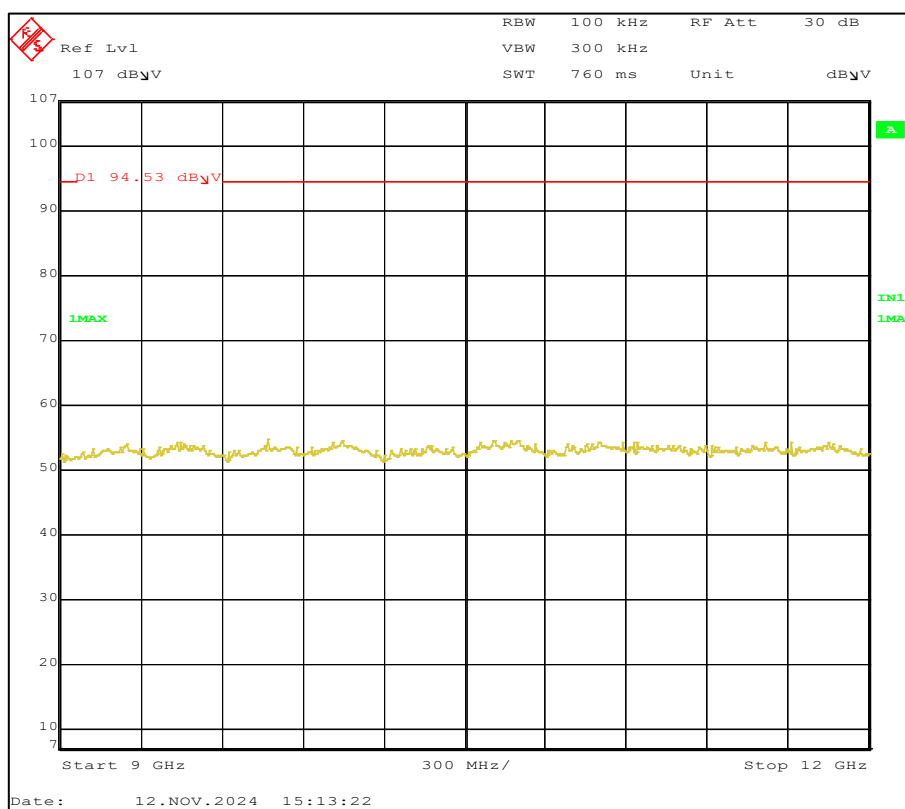


Figure 39. Conducted spurious emission, 9 - 12 GHz. Low channel.

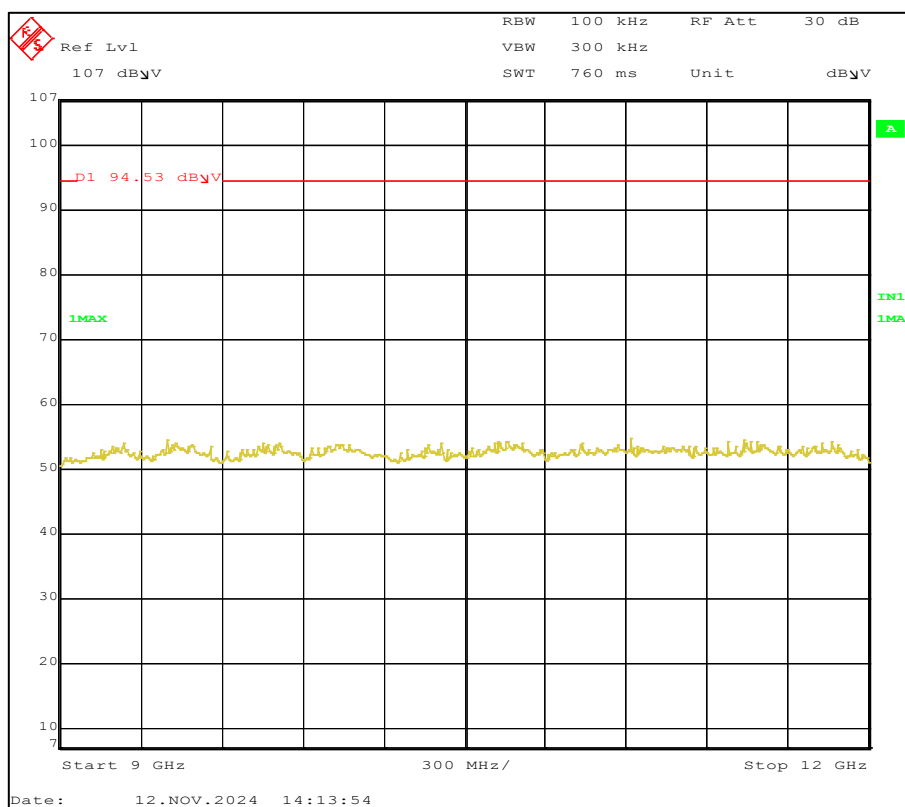


Figure 40. Conducted spurious emission, 9 - 12 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
45 (115)

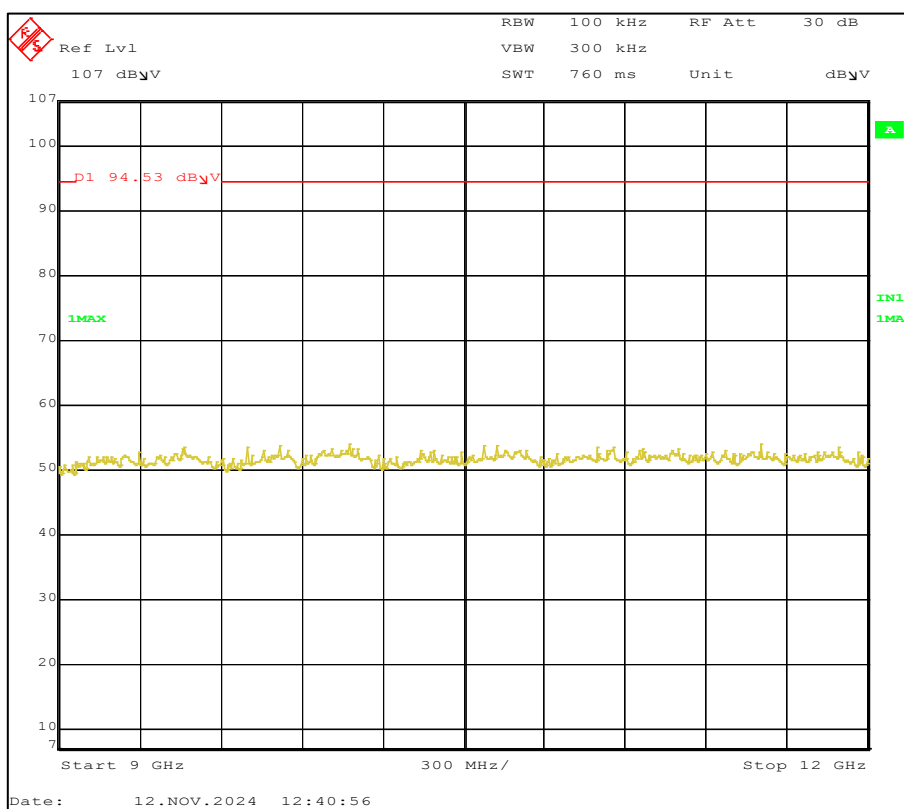


Figure 41. Conducted spurious emission, 9 - 12 GHz. High channel.

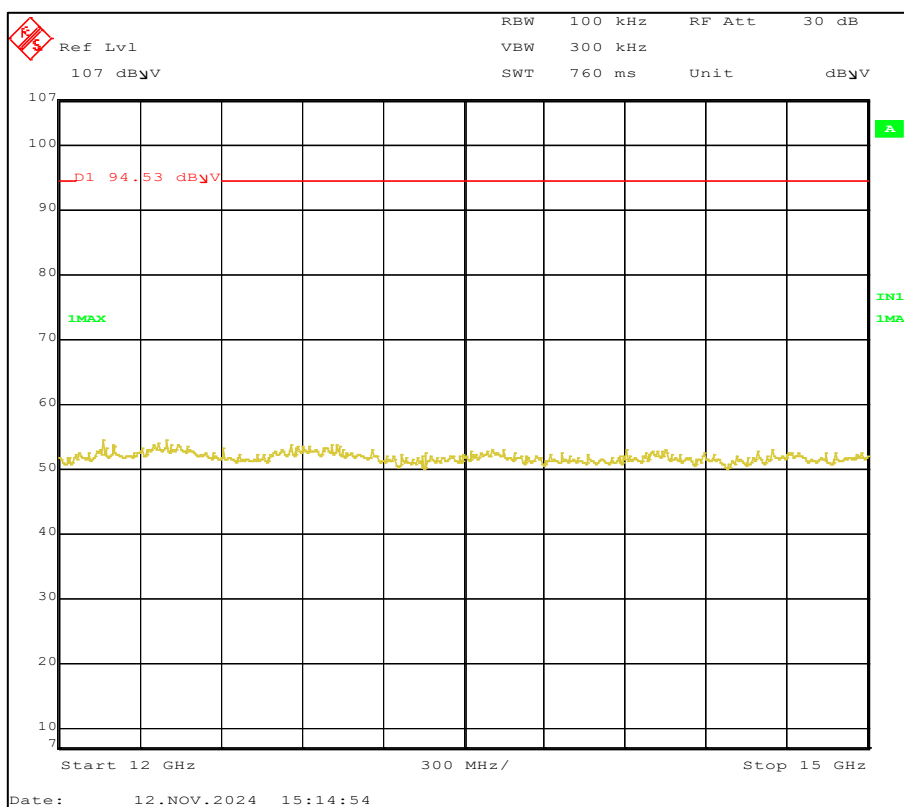


Figure 42. Conducted spurious emission, 12 – 15 GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
46 (115)

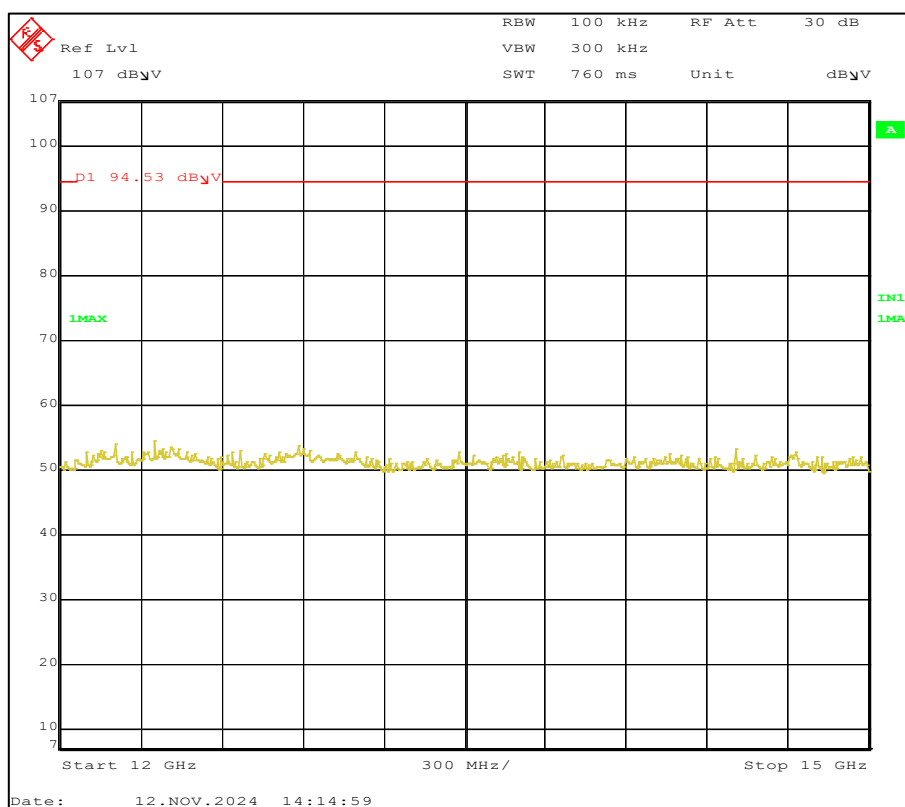


Figure 43. Conducted spurious emission, 12 – 15 GHz. Middle channel.

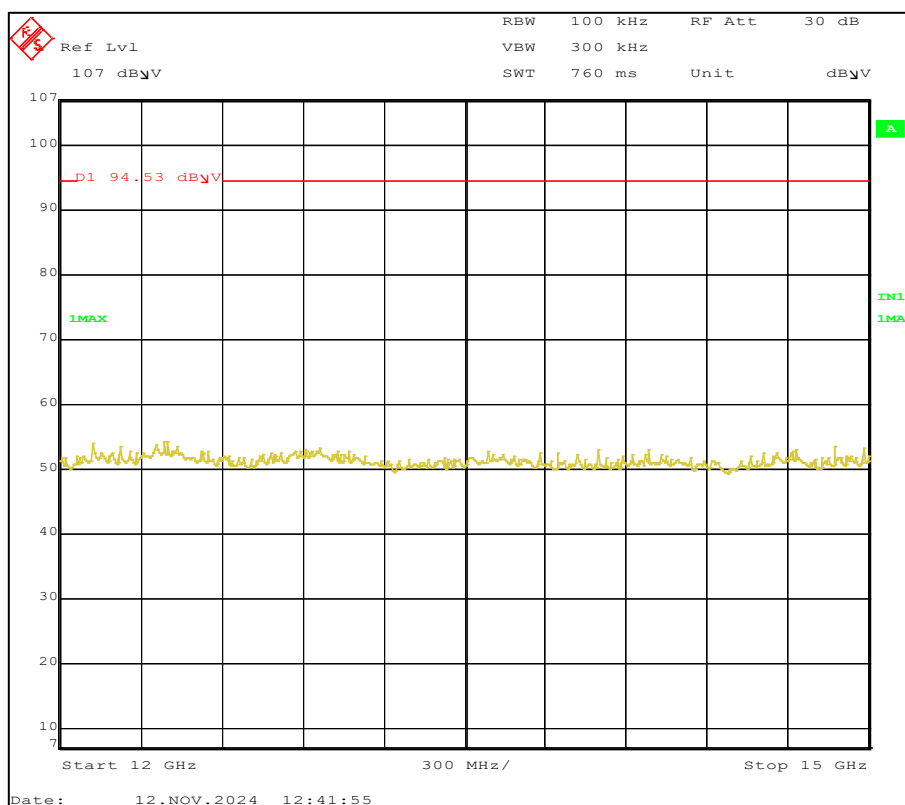


Figure 44. Conducted spurious emission, 12 – 15 GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
47 (115)

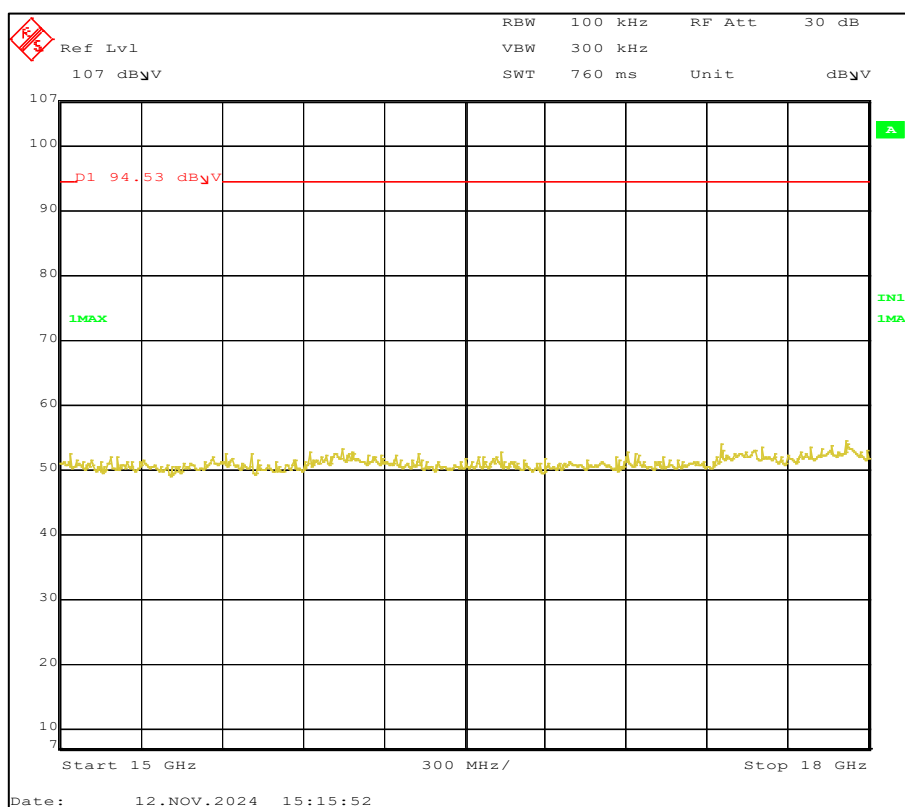


Figure 45. Conducted spurious emission, 15 – 18 GHz. Low channel.

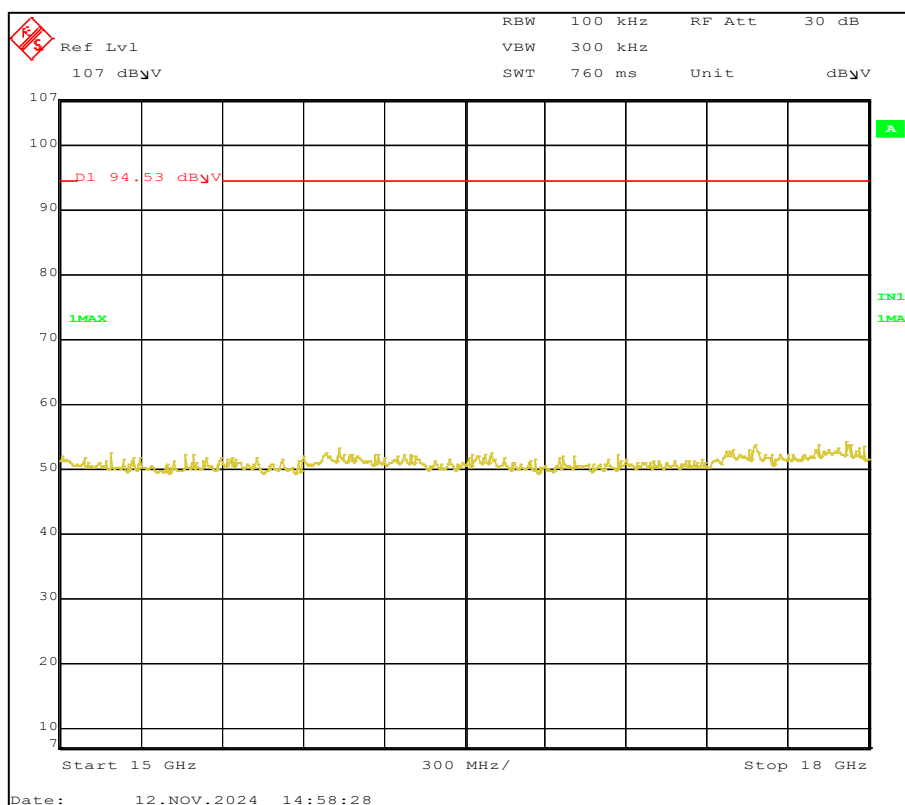


Figure 46. Conducted spurious emission, 15 – 18 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
48 (115)

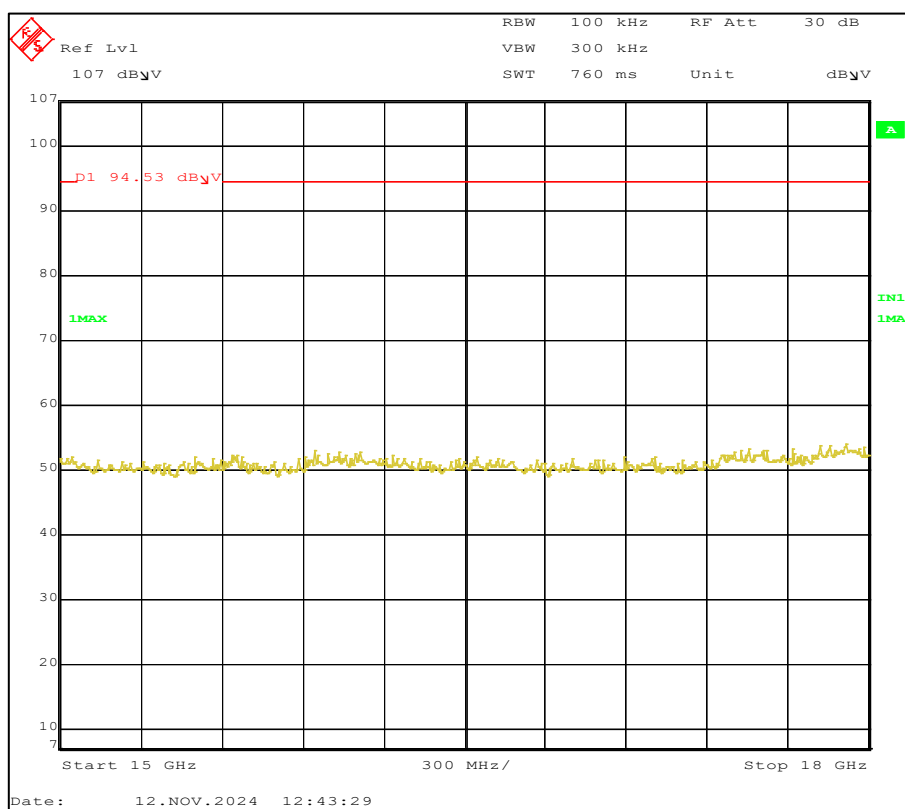


Figure 47. Conducted spurious emission, 15 – 18 GHz. High channel.

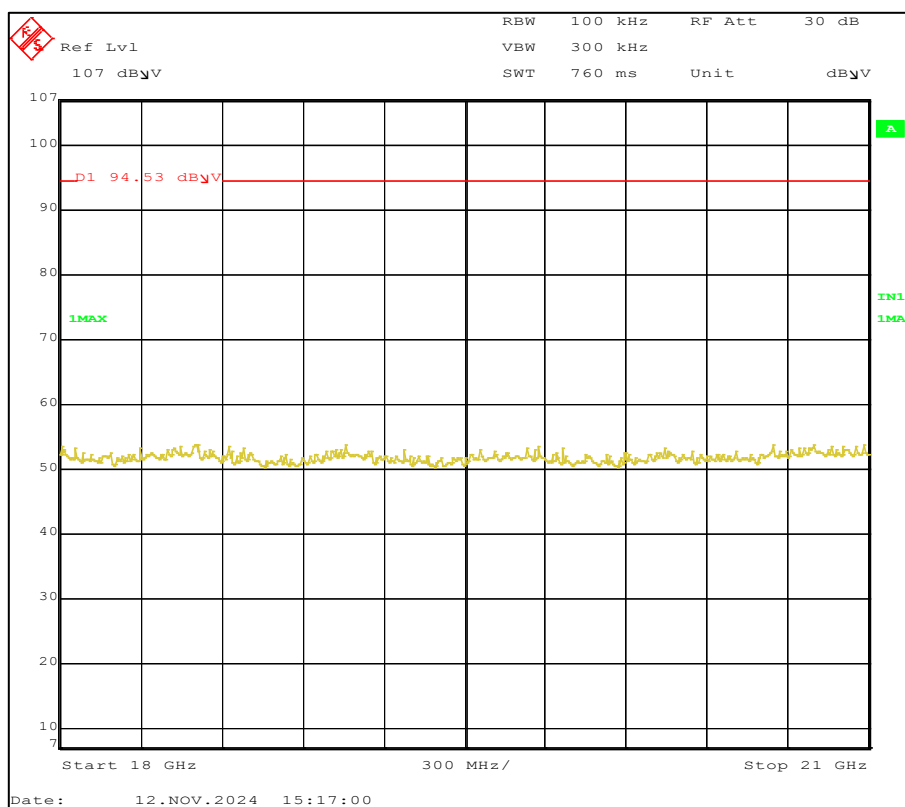


Figure 48. Conducted spurious emission, 18 – 21 GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
49 (115)

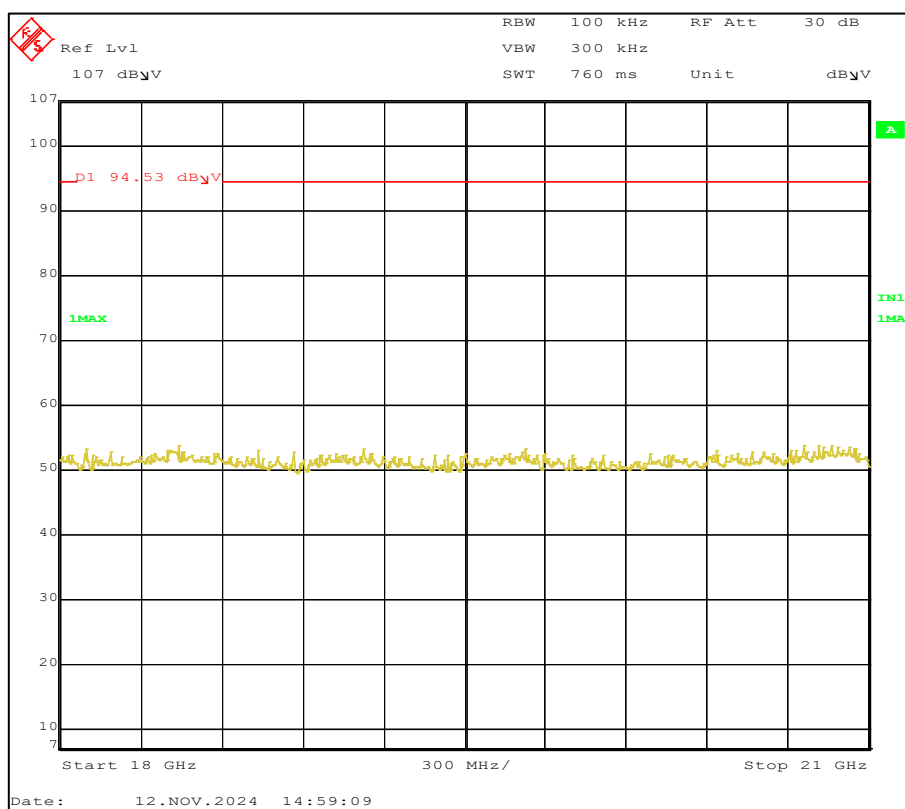


Figure 49. Conducted spurious emission, 18– 21 GHz. Middle channel.

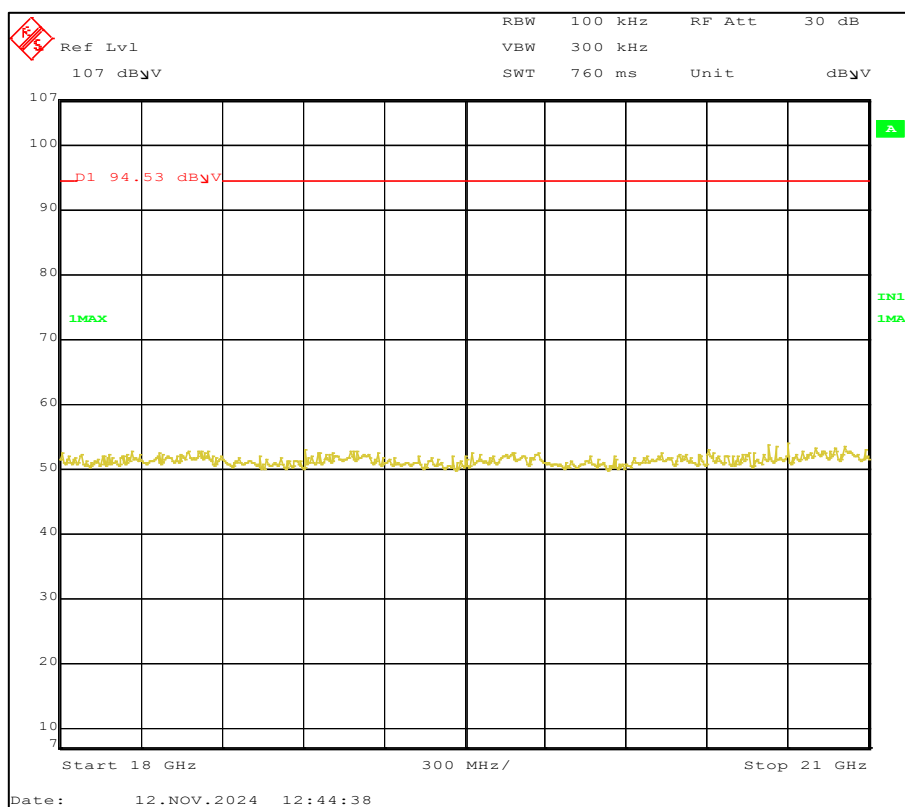


Figure 50. Conducted spurious emission, 18 – 21 GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
50 (115)

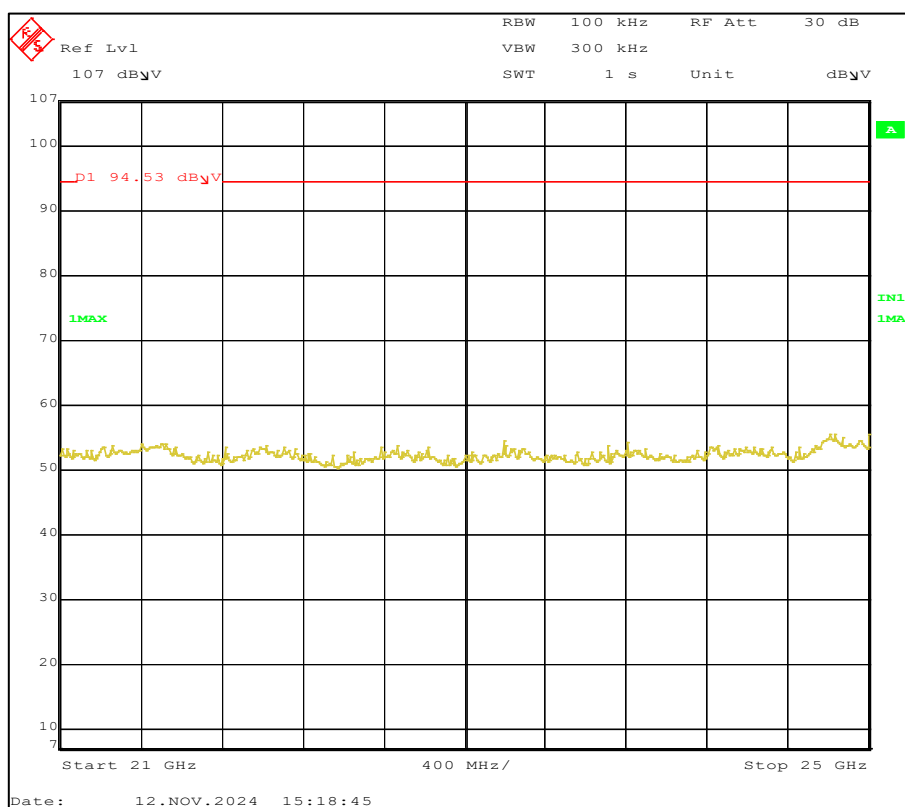


Figure 51. Conducted spurious emission, 21 – 25 GHz. Low channel.

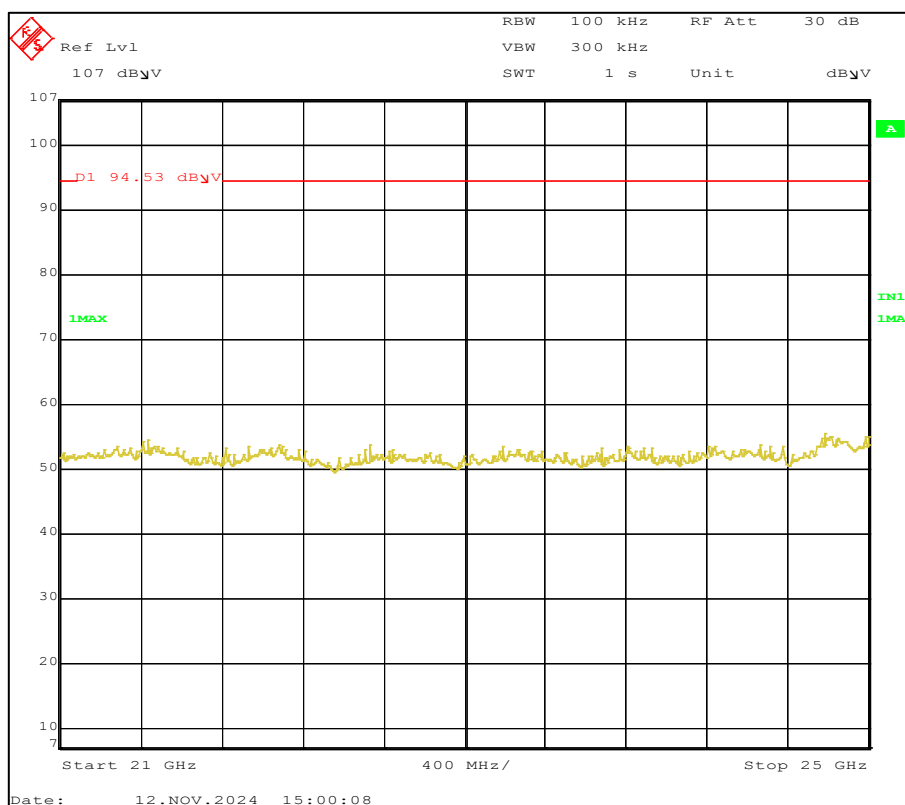


Figure 52. Conducted spurious emission, 21 – 25 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
51 (115)

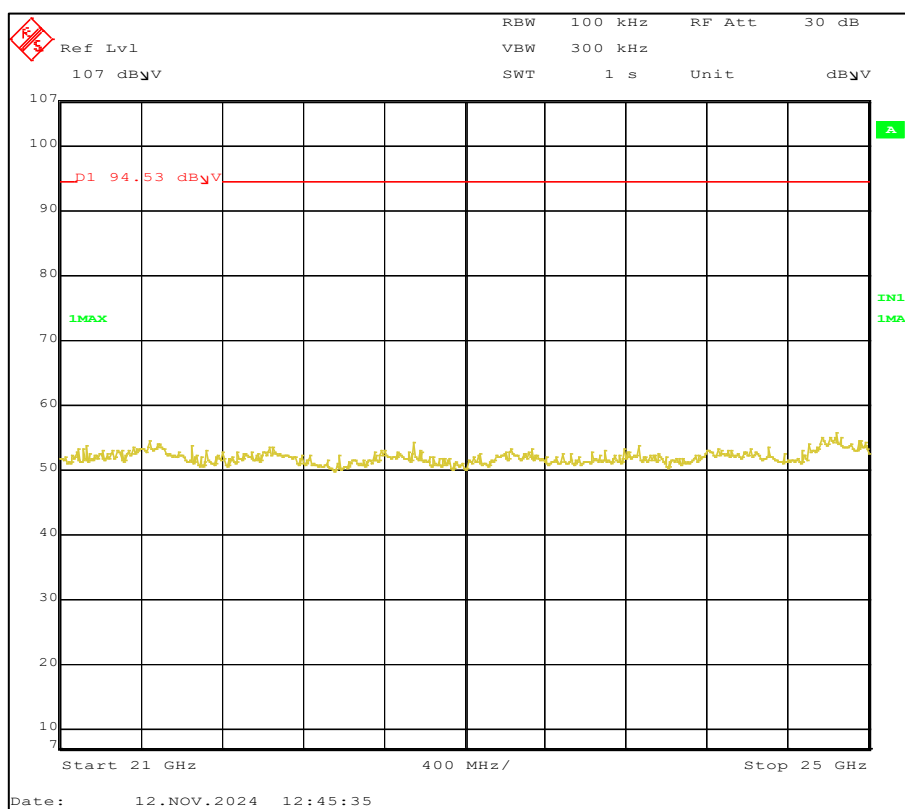


Figure 53. Conducted spurious emission, 21 – 25 GHz. High channel.

Frequency range	Low	Middle	High	Low	Middle	High	Limit	Result
[GHz]	Peak [dBμV]	Peak [dBμV]	Peak [dBμV]	Margin [dB]	Margin [dB]	Margin [dB]	[dBμV]	
0.03 – 2.4	56	59	60	38.53	35.53	34.53	94.2	PASSED
2.4835 - 6	64	61	61	30.53	33.53	33.53	94.2	PASSED
6 - 9	57	57	57	37.53	37.53	37.53	94.2	PASSED
9 - 12	55	55	55	39.53	39.53	39.53	94.2	PASSED
12 – 15	55	55	55	39.53	39.53	39.53	94.2	PASSED
15 - 18	55	55	55	39.53	39.53	39.53	94.2	PASSED
18 - 21	54	54	54	40.53	40.53	40.53	94.2	PASSED
21 - 25	55	55	55	39.53	39.53	39.53	94.2	PASSED

Table 11. Conducted spurious emission. Right radio. Final test result.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
52 (115)

2.6.2.2 Left radio.

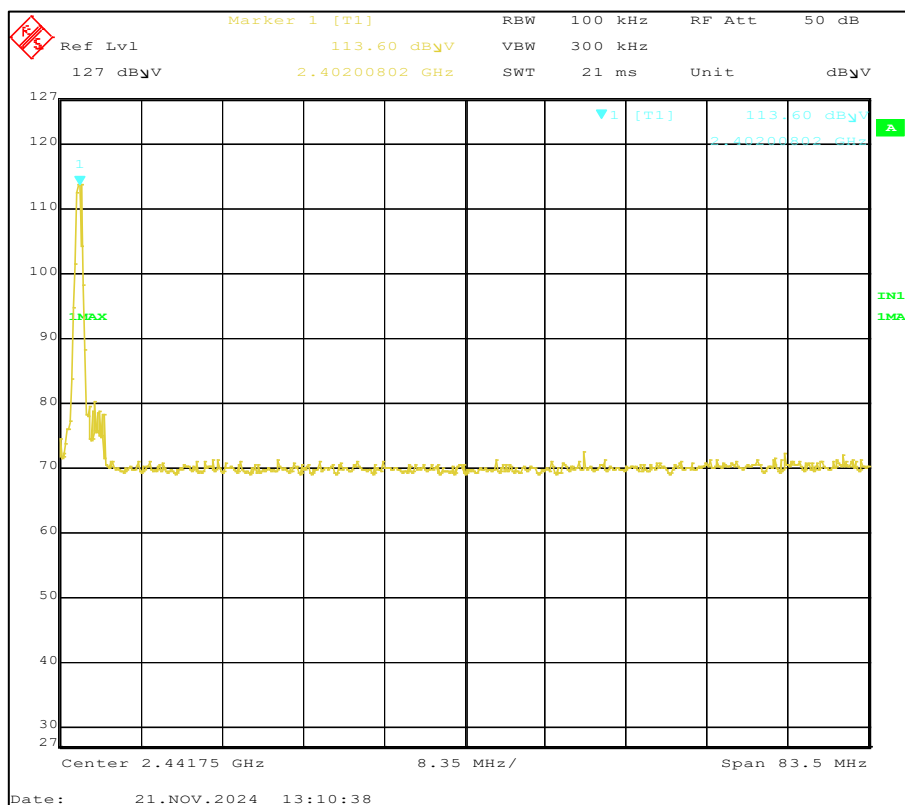


Figure 54. In band measurement of Low channel carrier.

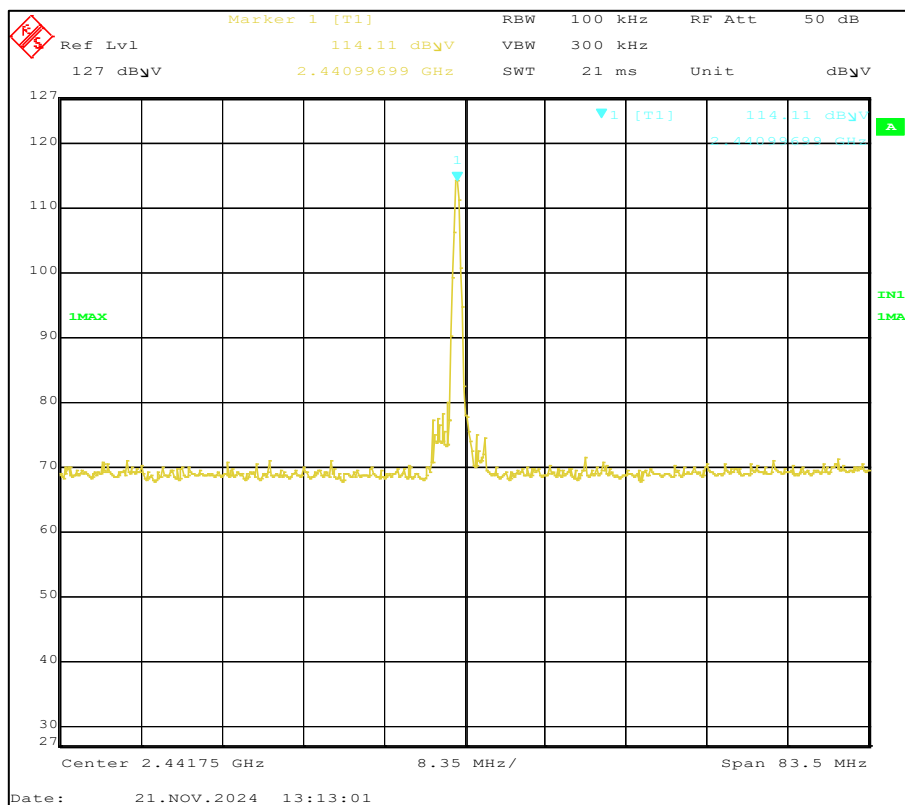


Figure 55. In band measurement of Middle channel carrier.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
53 (115)

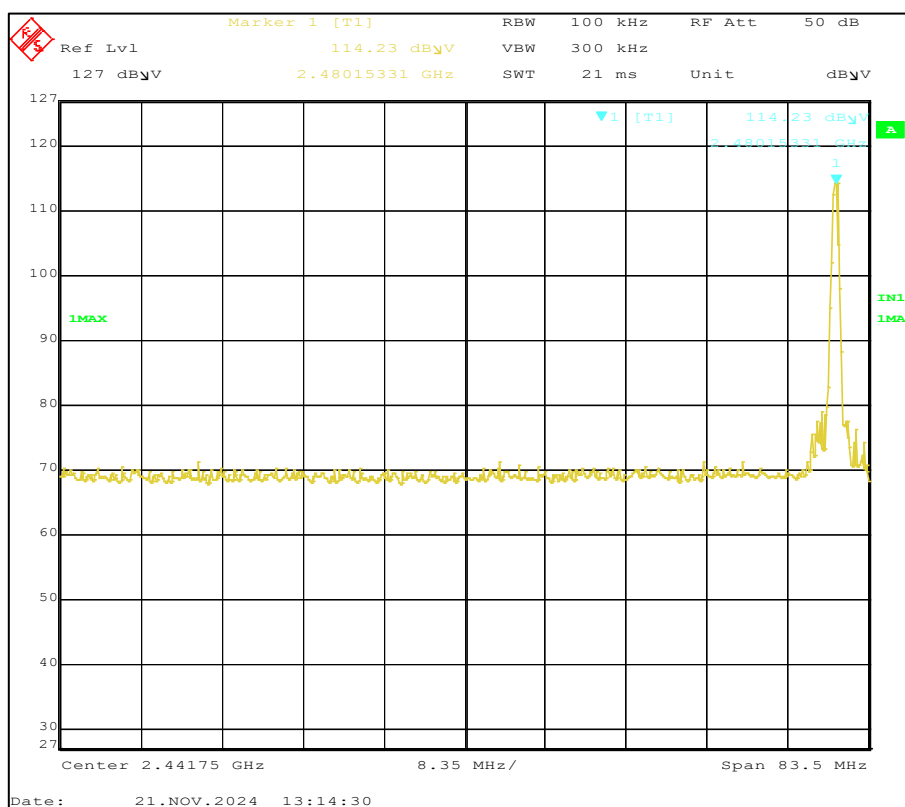


Figure 56. In band measurement of High channel carrier.

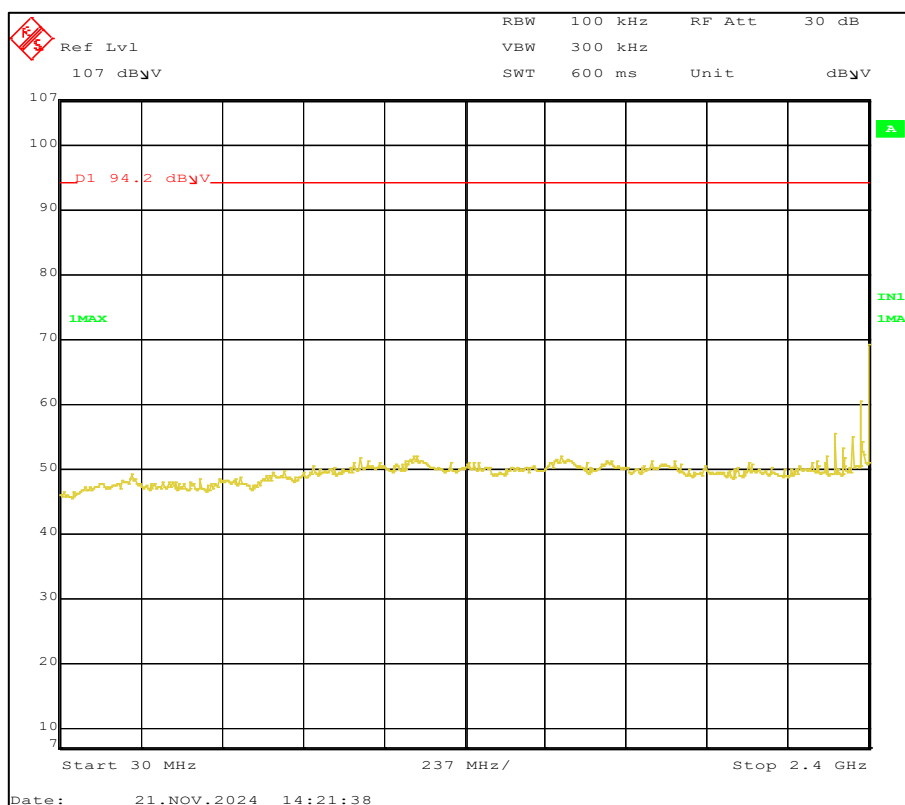


Figure 57. Conducted spurious emission, 30MHz – 2.4GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
54 (115)

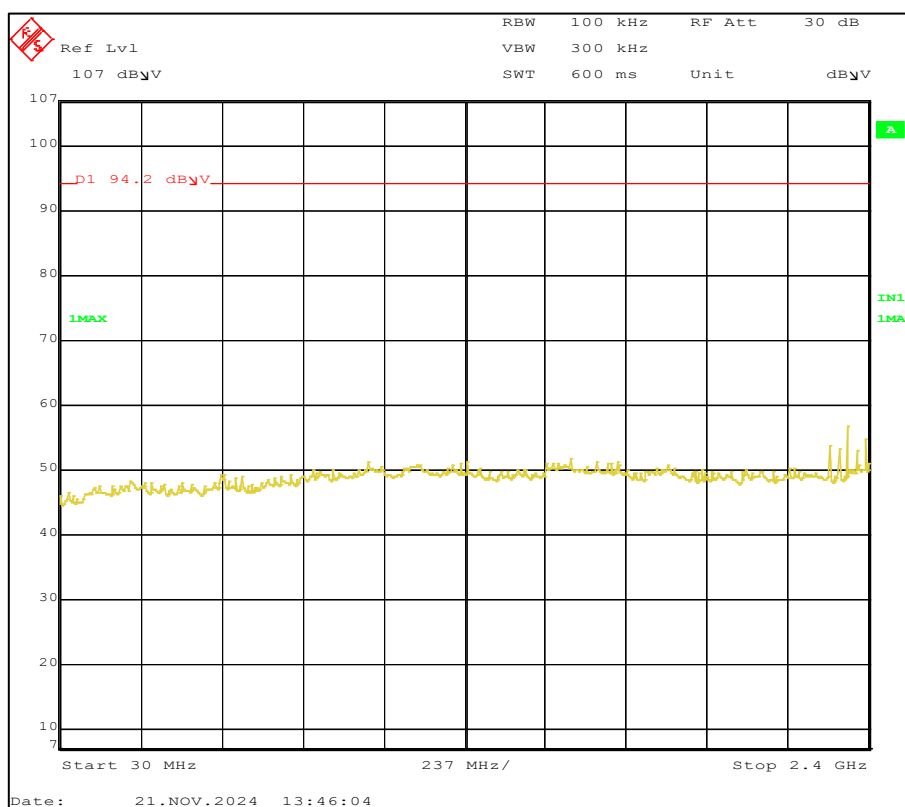


Figure 58. Conducted spurious emission, 30MHz – 2.4GHz. Middle channel.

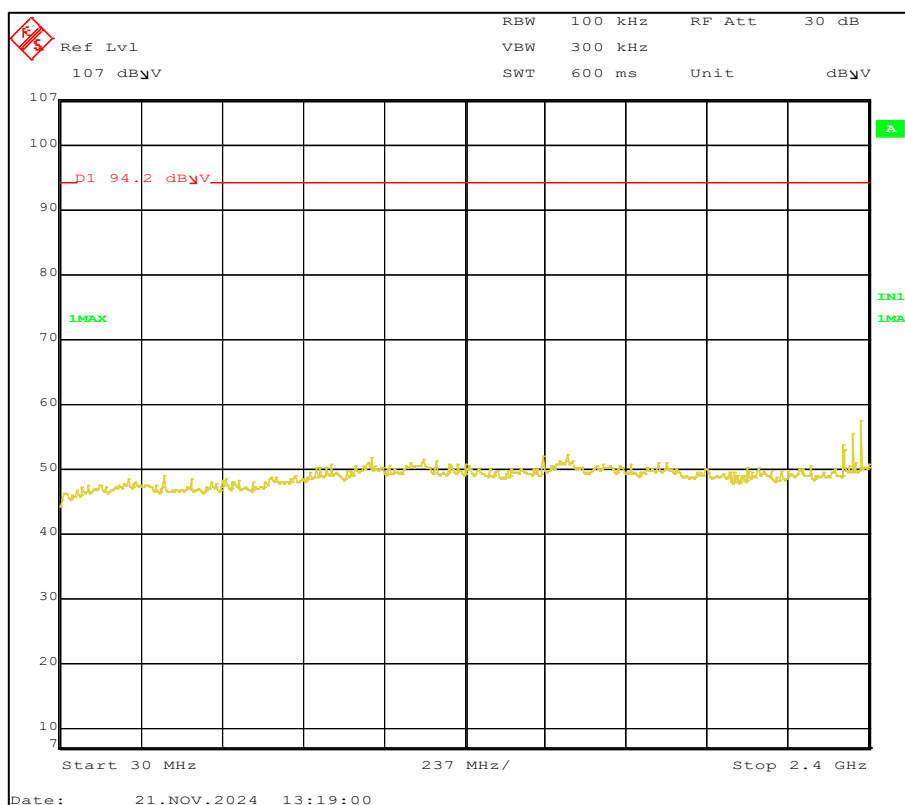


Figure 59. Conducted spurious emission, 30MHz – 2.4GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
55 (115)

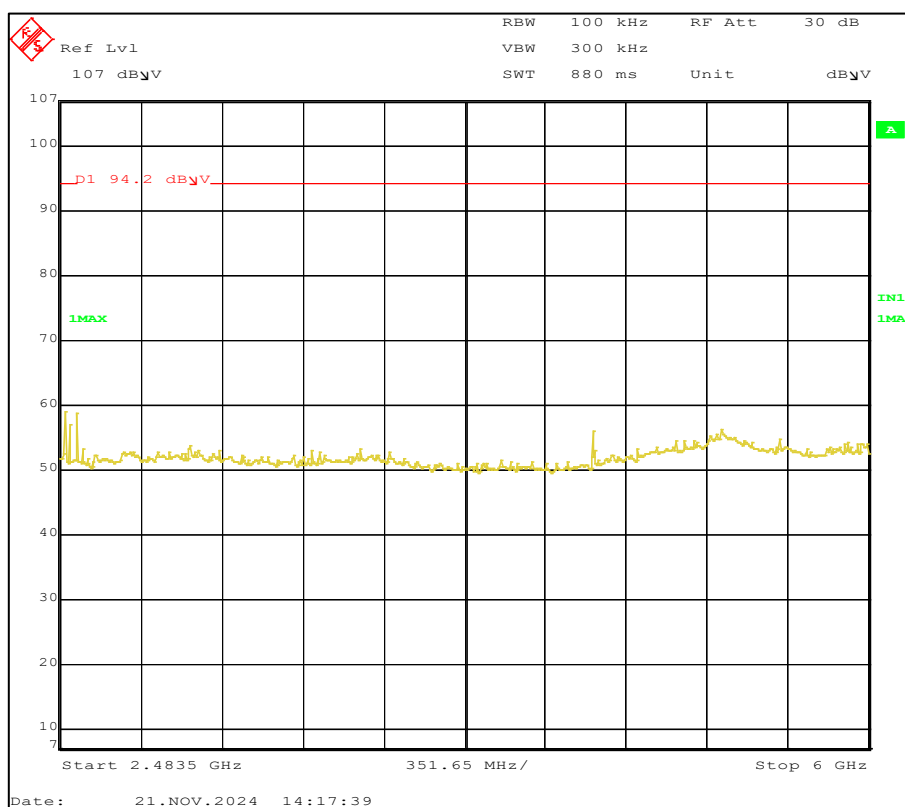


Figure 60. Conducted spurious emission, 2.4835 – 6 GHz. Low channel.

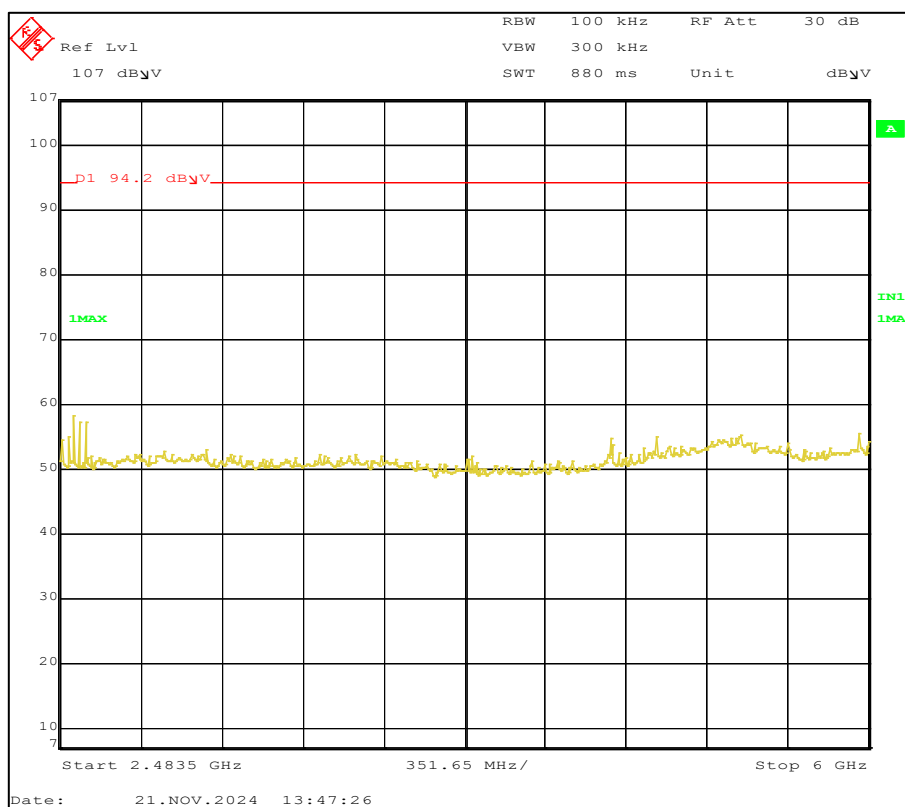


Figure 61. Conducted spurious emission, 2.4835 – 6 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
56 (115)

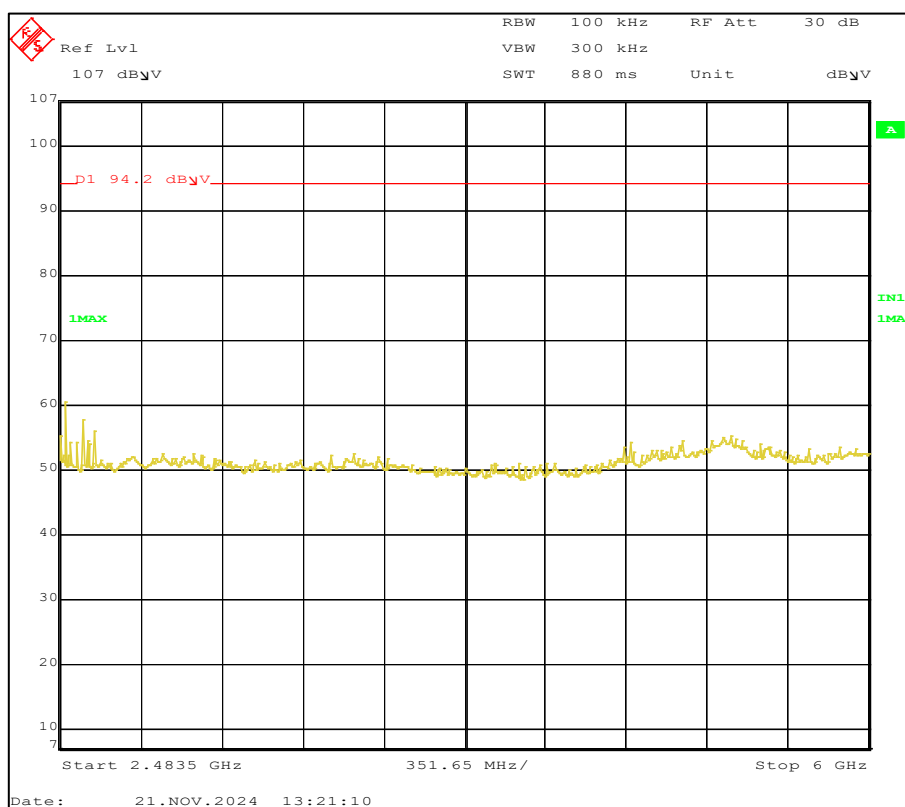


Figure 62. Conducted spurious emission, 2.4835 – 6 GHz. High channel.

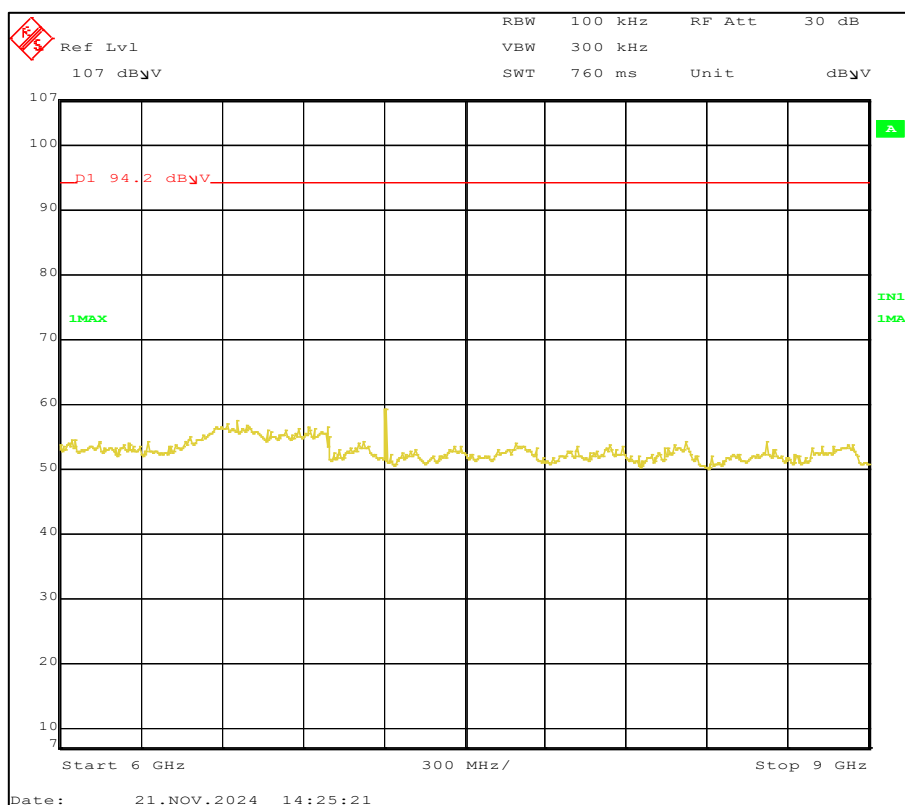


Figure 63. Conducted spurious emission, 6 - 9 GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
57 (115)

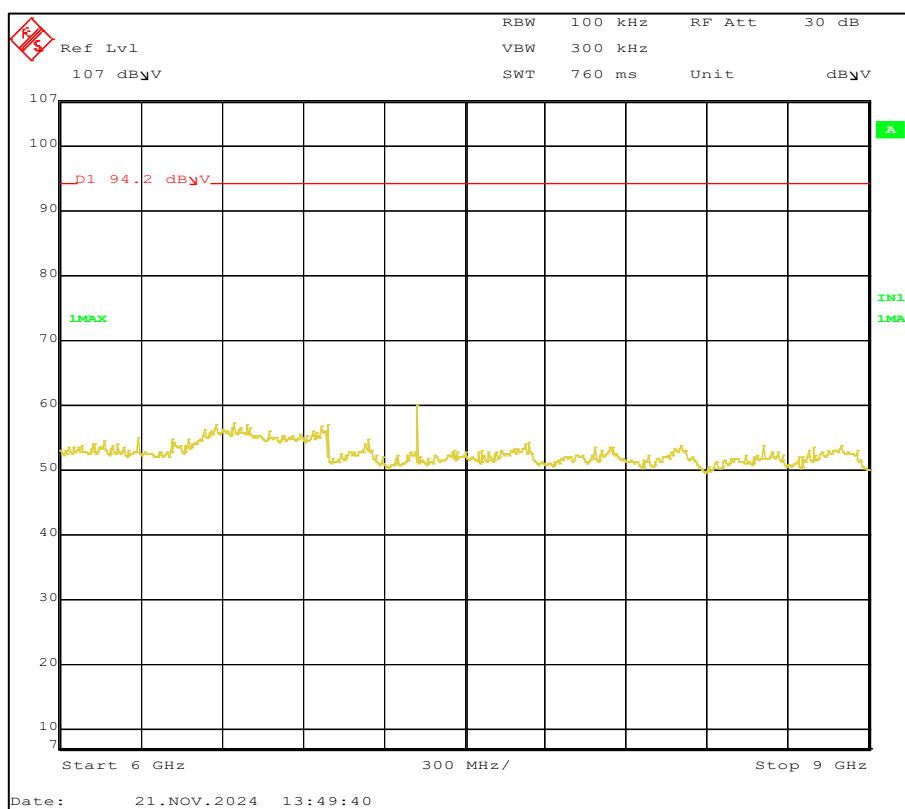


Figure 64. Conducted spurious emission, 6 - 9 GHz. Middle channel.

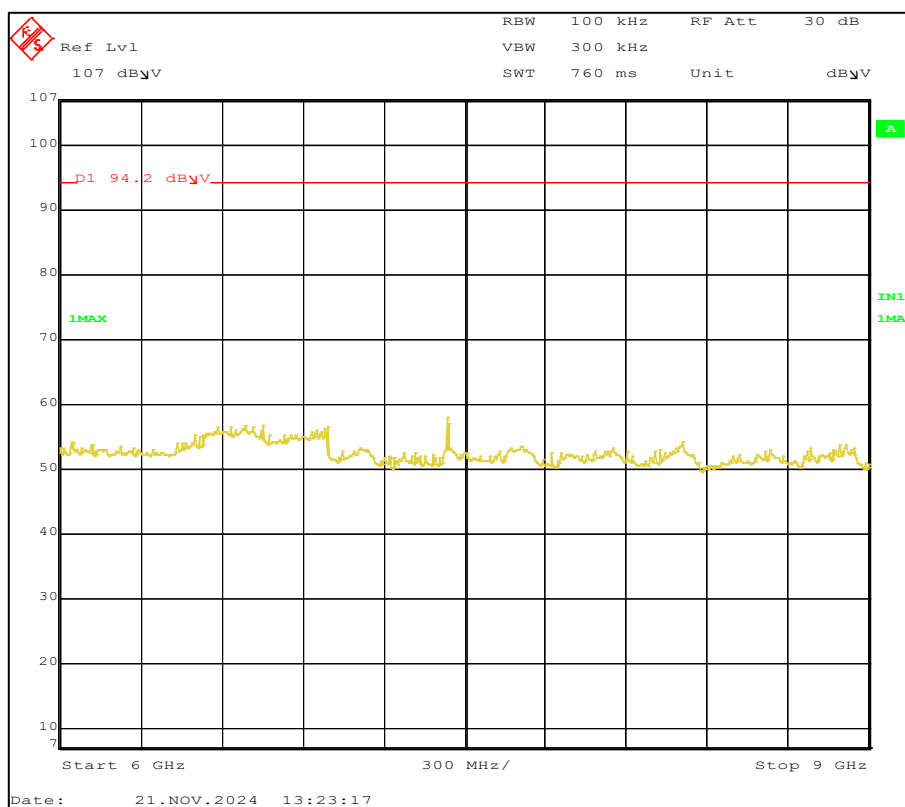


Figure 65. Conducted spurious emission, 6 - 9 GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
58 (115)

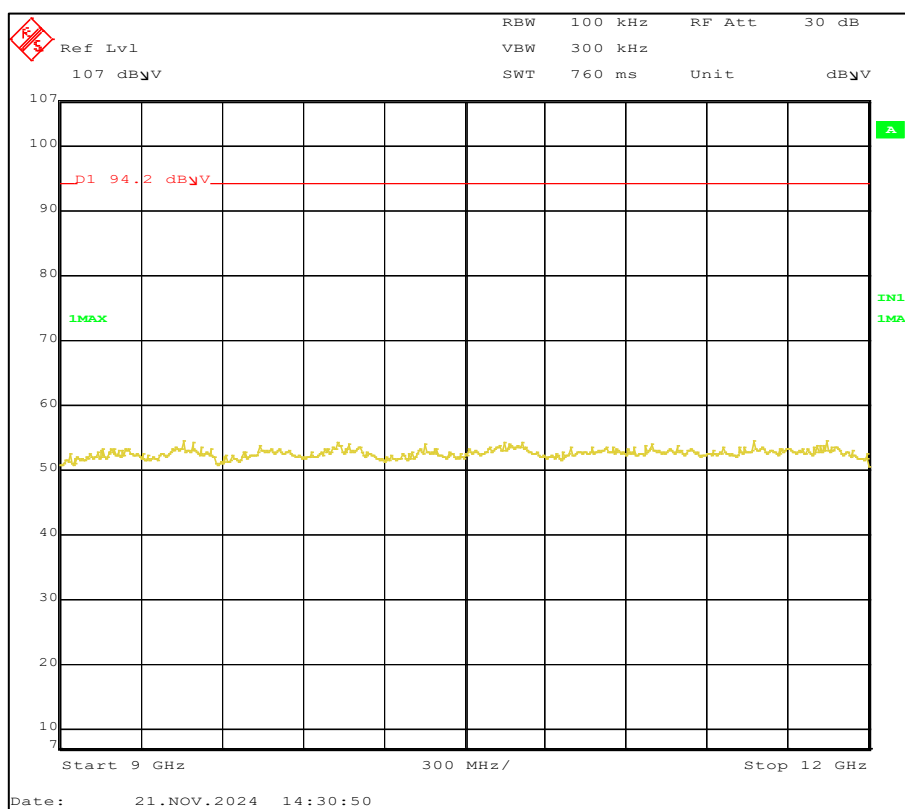


Figure 66. Conducted spurious emission, 9 - 12 GHz. Low channel.

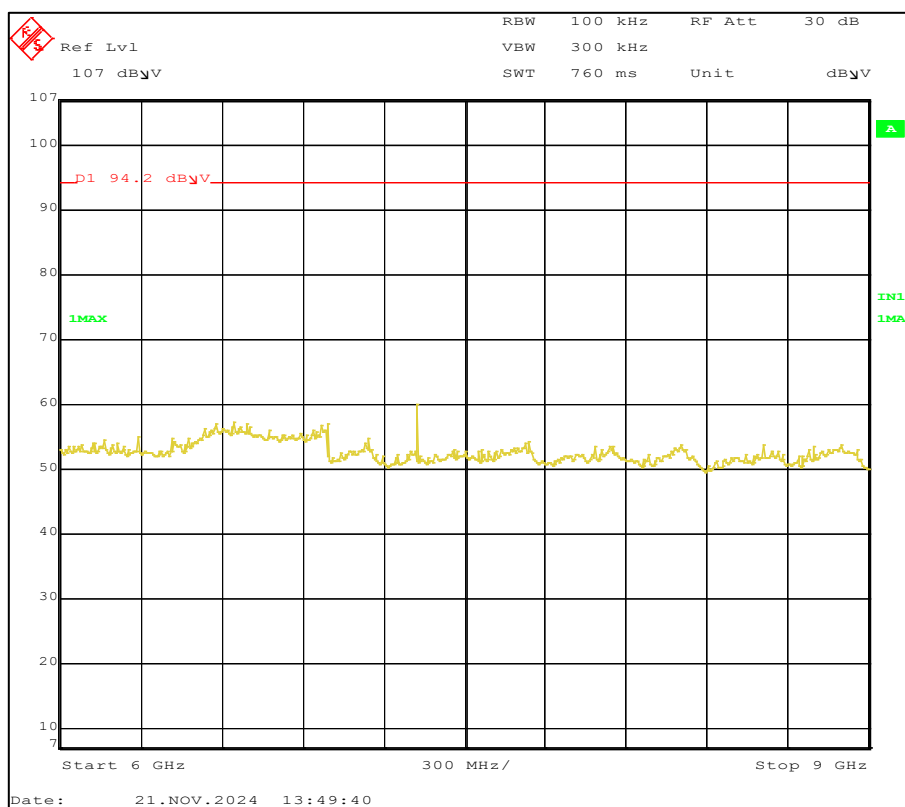


Figure 67. Conducted spurious emission, 9 - 12 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
59 (115)

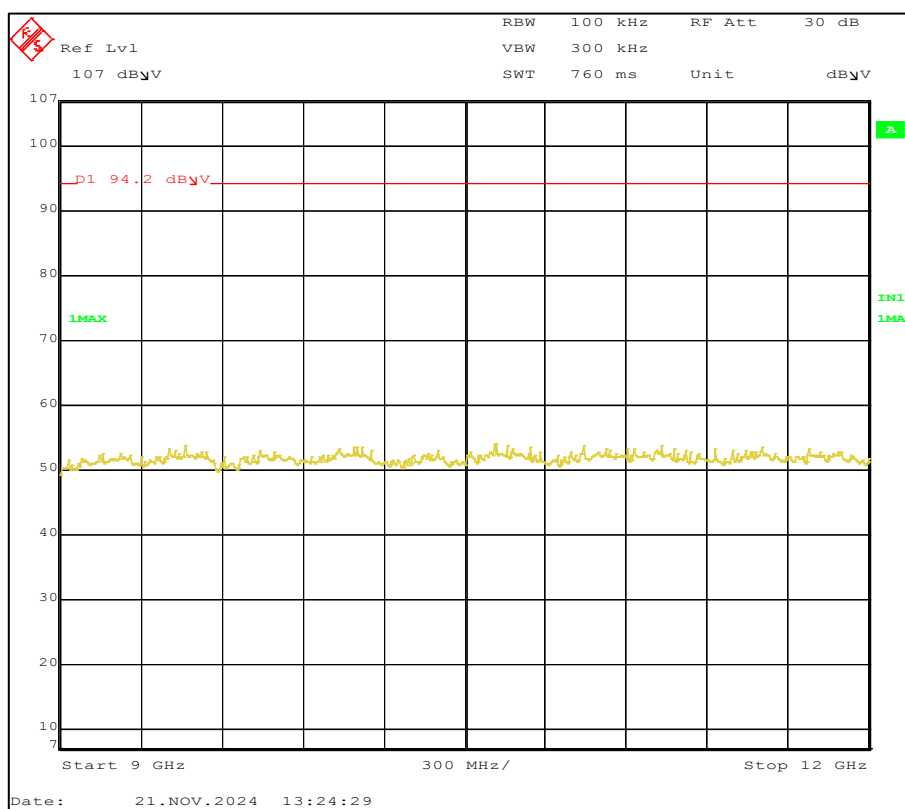


Figure 68. Conducted spurious emission, 9 - 12 GHz. High channel.

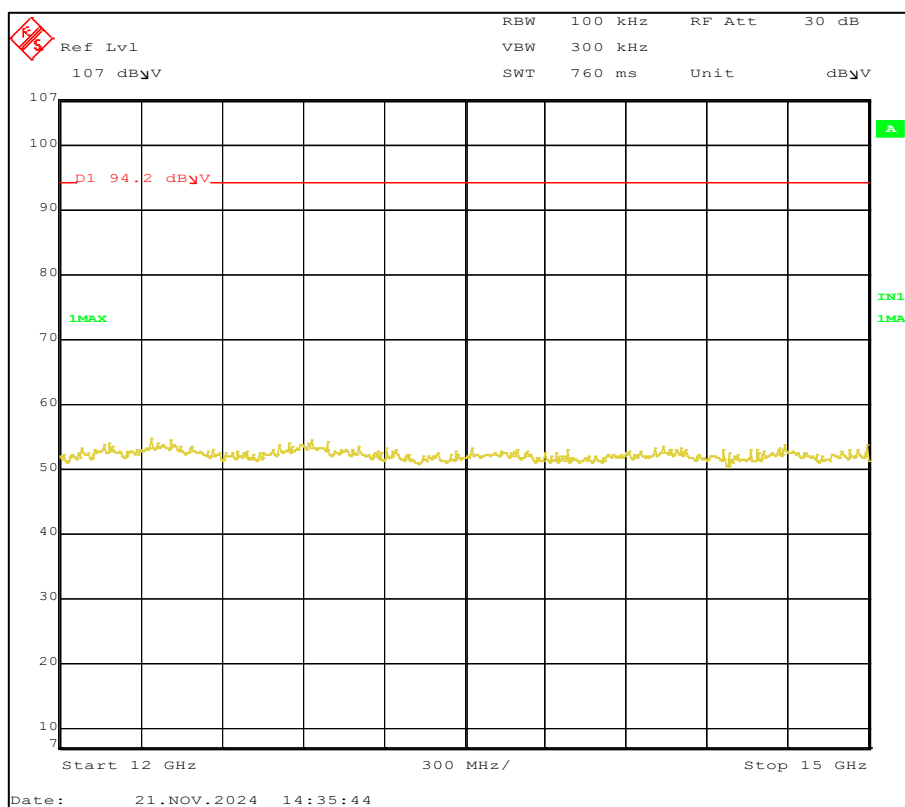


Figure 69. Conducted spurious emission, 12 – 15 GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
60 (115)

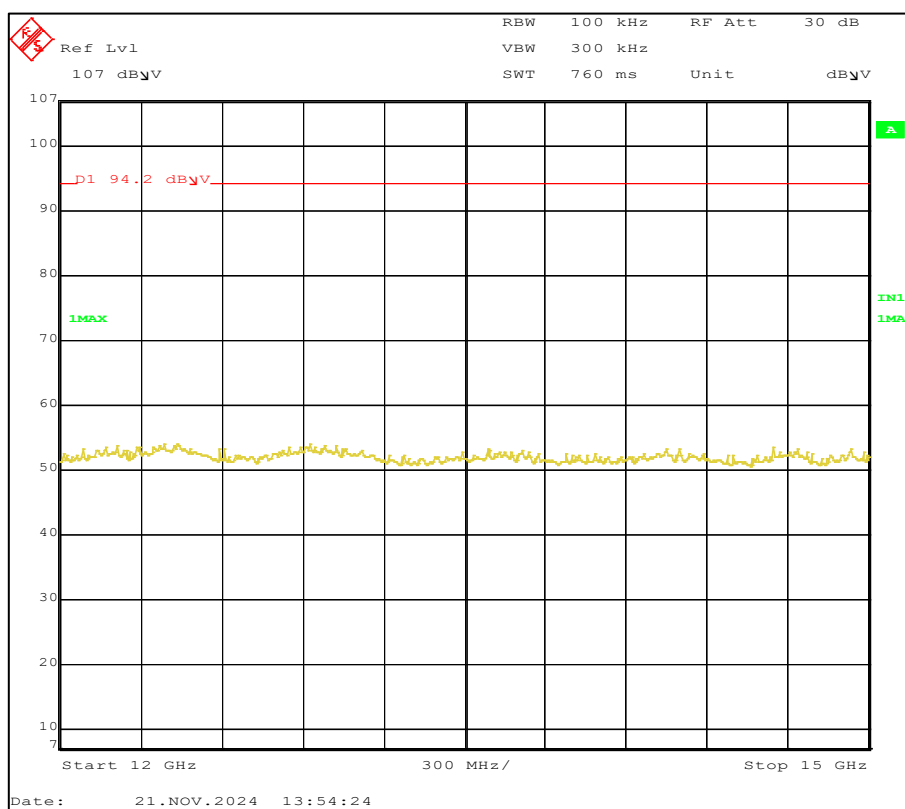


Figure 70. Conducted spurious emission, 12 – 15 GHz. Middle channel.

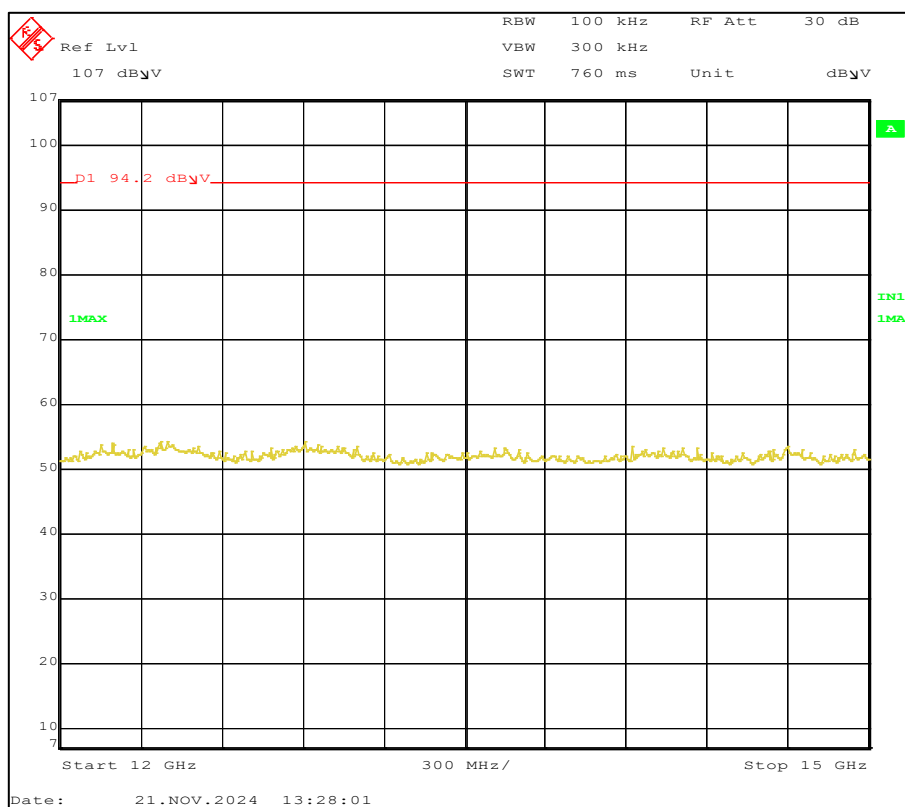


Figure 71. Conducted spurious emission, 12 – 15 GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
61 (115)

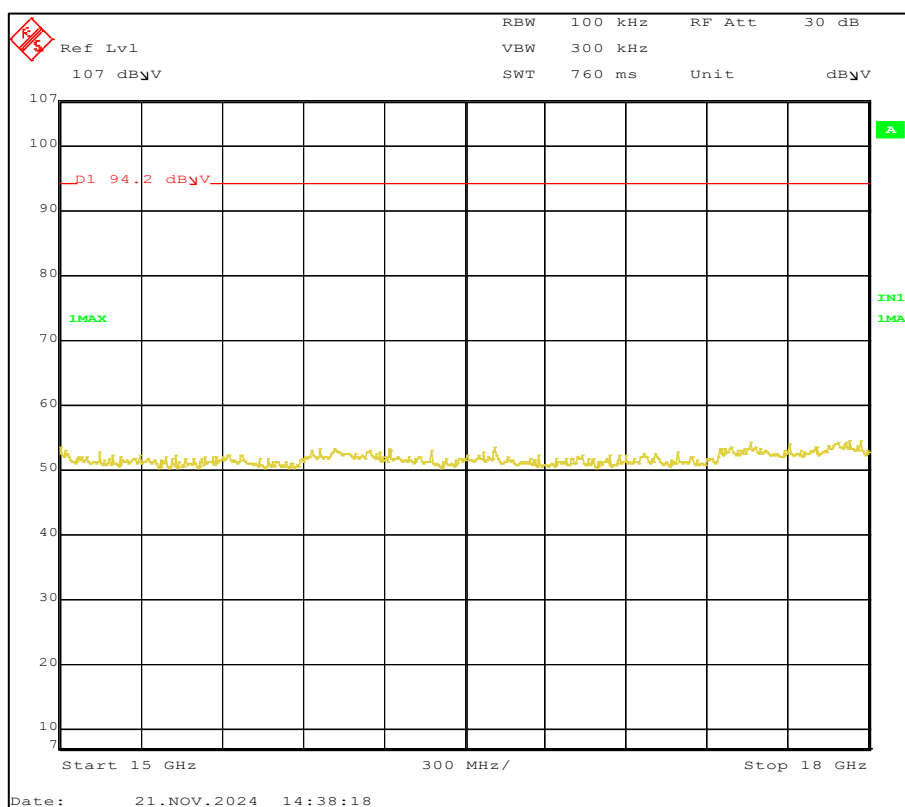


Figure 72. Conducted spurious emission, 15 – 18 GHz. Low channel.

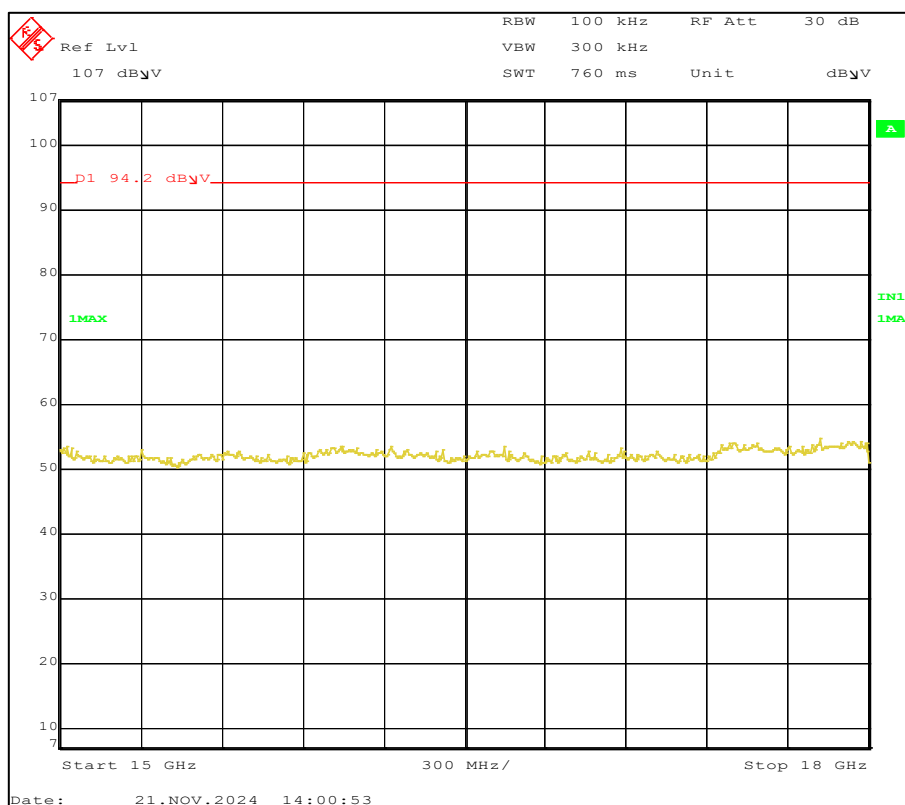


Figure 73. Conducted spurious emission, 15 – 18 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
62 (115)

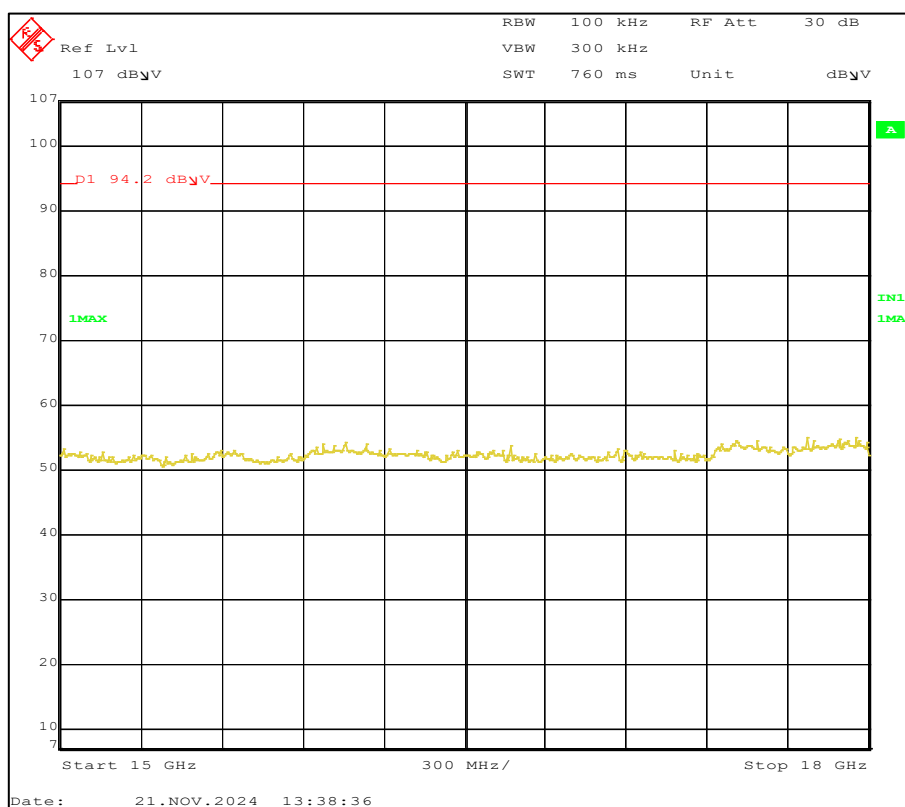


Figure 74. Conducted spurious emission, 15 – 18 GHz. High channel.

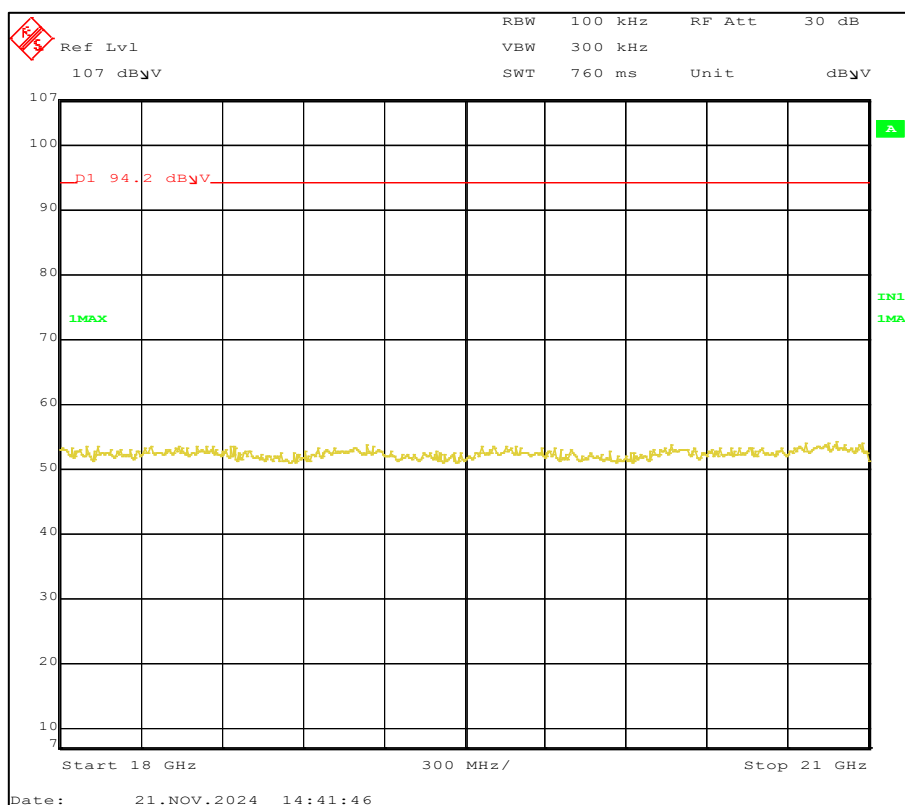


Figure 75. Conducted spurious emission, 18 – 21 GHz. Low channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
63 (115)

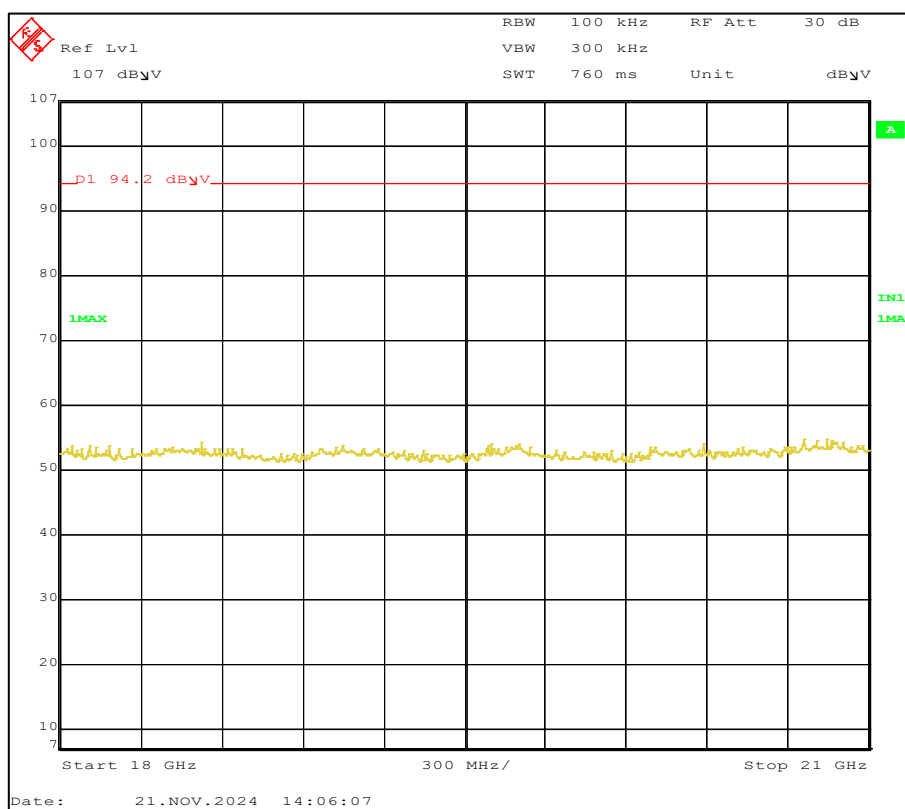


Figure 76. Conducted spurious emission, 18 – 21 GHz. Middle channel.

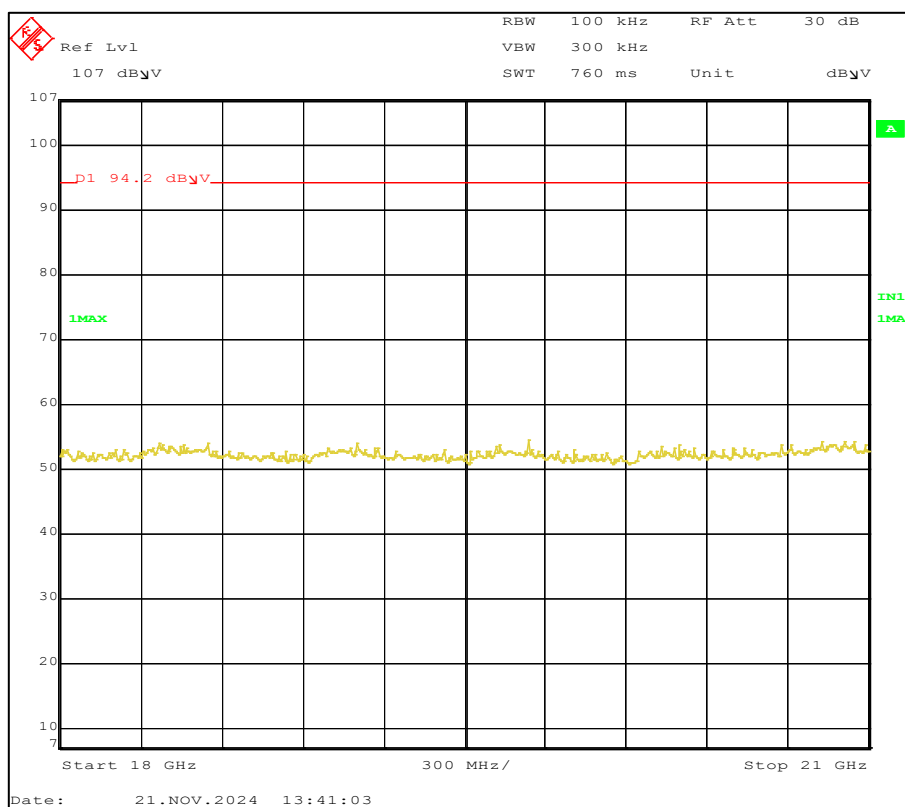


Figure 77. Conducted spurious emission, 18 – 21 GHz. High channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
64 (115)

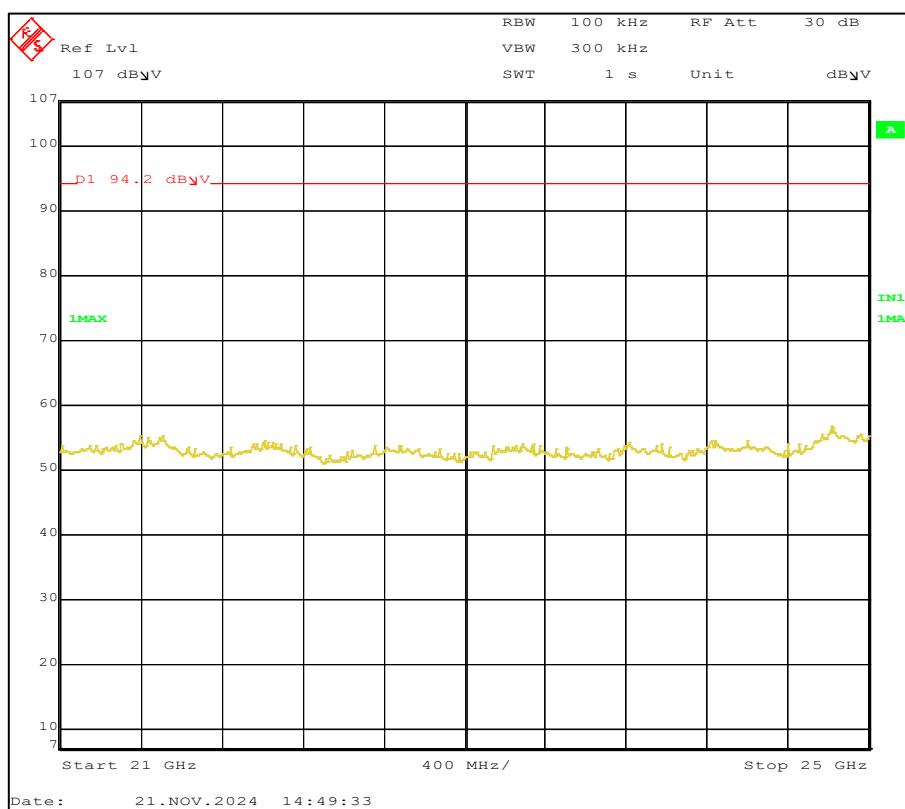


Figure 78. Conducted spurious emission, 21 – 25 GHz. Low channel.

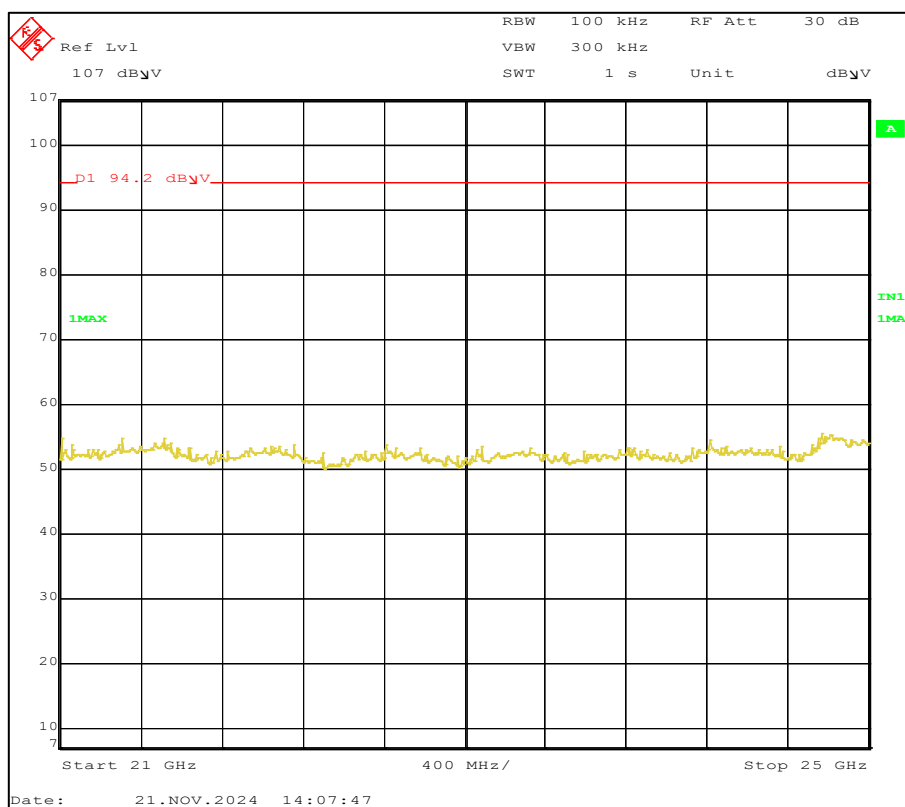


Figure 79. Conducted spurious emission, 21 – 25 GHz. Middle channel.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
65 (115)

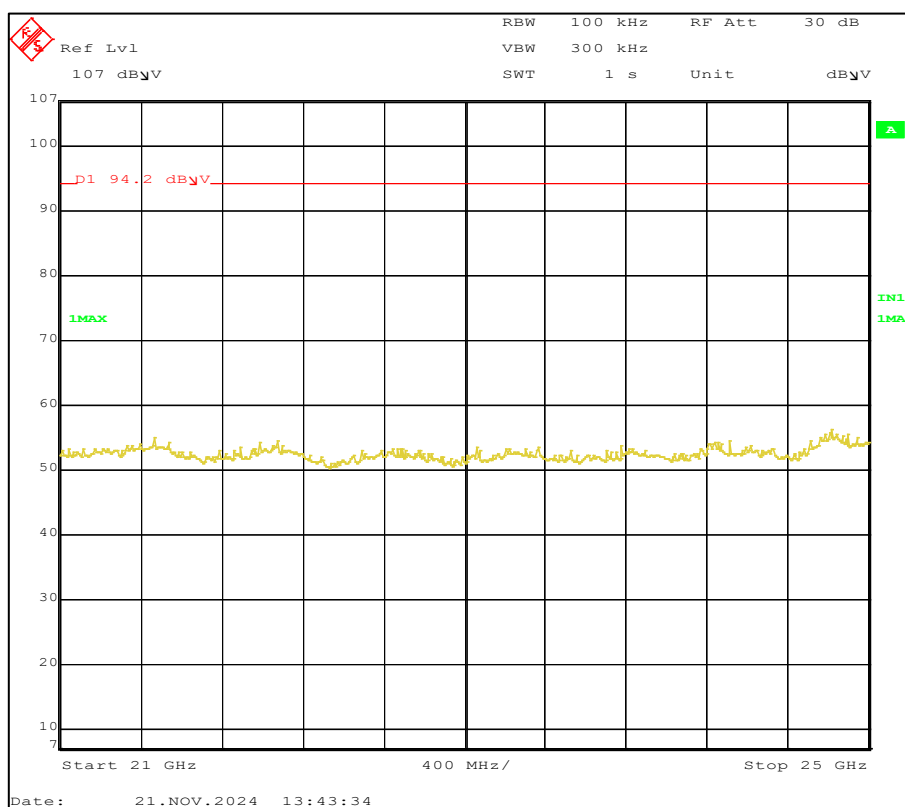


Figure 80. Conducted spurious emission, 21 – 25 GHz. High channel.

Frequency range	Low	Middle	High	Low	Middle	High	Limit	Result
[GHz]	Peak [dBμV]	Peak [dBμV]	Peak [dBμV]	Margin [dB]	Margin [dB]	Margin [dB]	[dBμV]	
0.03 – 2.4	61	58	58	33.2	36.2	36.2	94.2	PASSED
2.4835 - 6	60	59	61	34.2	35.2	33.2	94.2	PASSED
6 - 9	60	60	59	34.2	34.2	35.2	94.2	PASSED
9 - 12	55	60	55	39.2	34.2	39.2	94.2	PASSED
12 – 15	55	55	55	39.2	39.2	39.2	94.2	PASSED
15 - 18	54	55	55	40.2	39.2	39.2	94.2	PASSED
18 - 21	54	54	54	40.2	40.2	40.2	94.2	PASSED
21 - 25	57	55	56	37.2	39.2	38.2	94.2	PASSED

Table 12. Conducted spurious emission. Left radio. Final test result.

2.6.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESI26	30120763	2025-05-14
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 13. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
66 (115)

2.7 Conducted band edge

Test specimen	2000-1 Fitting Unit
Test specification	KDB 558074 D01 15.247 Meas. Guidance v05.02
Test method	ANSI C63.10:2013 sec 7.8.6
Frequency band	2400 – 2483.5 MHz
Limits	FCC 47 CFR Part 15.209 (a)
Comments	-
Temperature / Humidity	23°C / 44%RH, 23°C / 35%RH
Dates of measurements	2024-11-12, 2024-11-21
Test personnel	Søren Søltøft

2.7.1 Test setup

The temporary antenna connector of the test specimen was connected directly to the Test receiver

The tests were performed with the test specimen radios at a single frequency and hopping disabled.

The tests were performed at Low, and High channel on both Left and Right radio.

The tests were performed in hopping mode and on a single frequency.

Low: 2402 MHz

High: 2480 MHz

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
67 (115)

2.7.2 Test results

2.7.2.1 Right radio

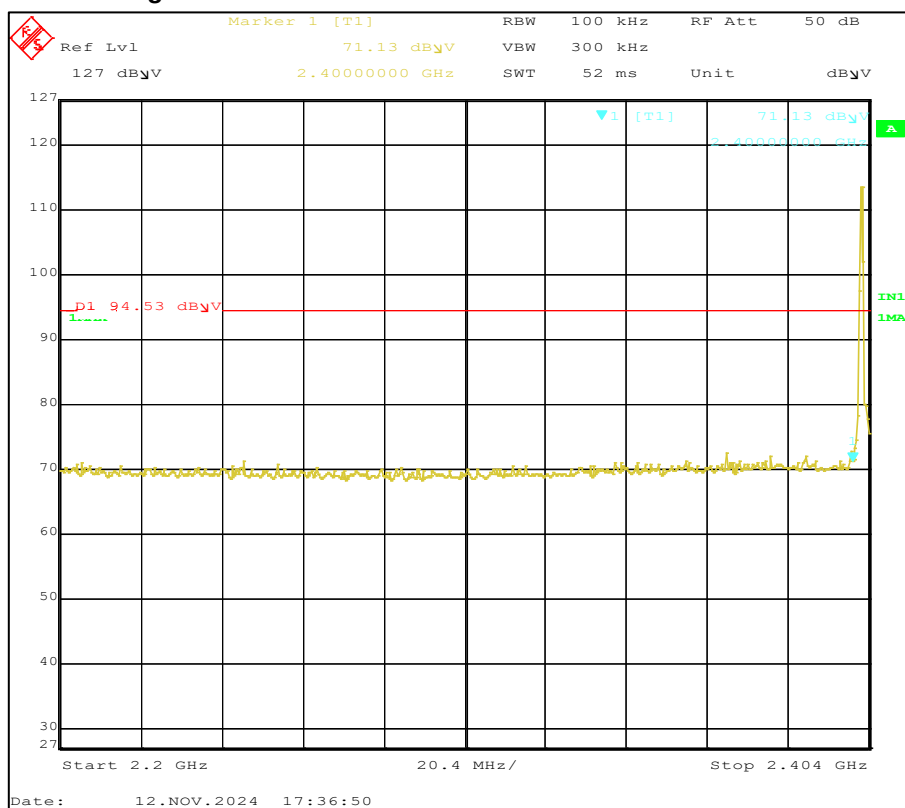


Figure 81. Conducted emission, Low Band Edge, Single frequency 2402 MHz,

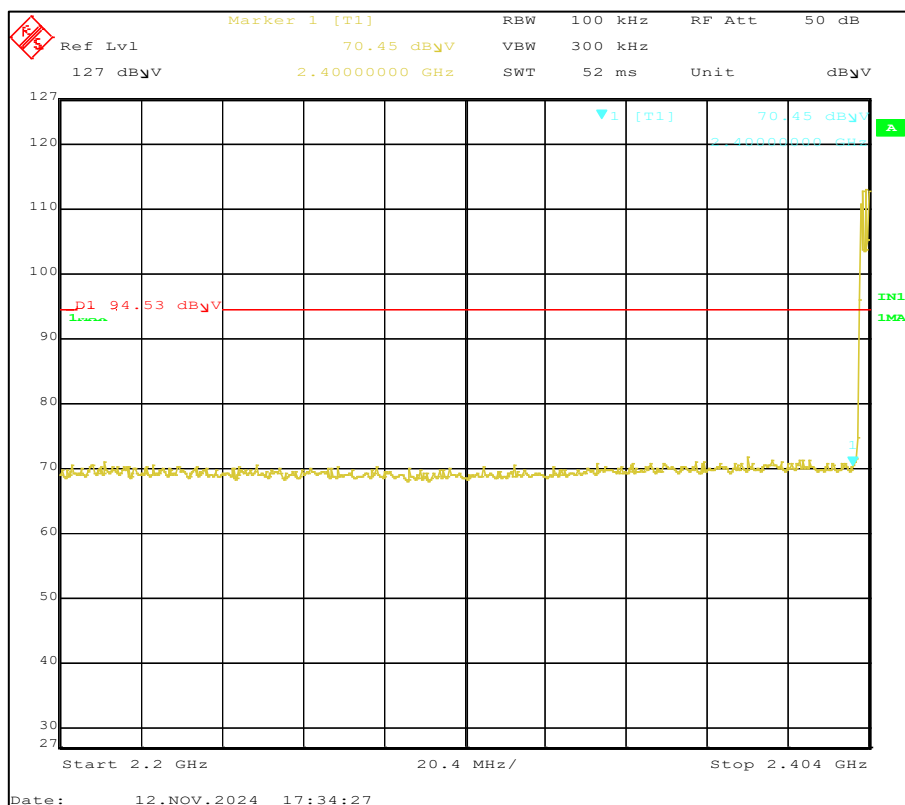


Figure 82. Conducted emission, Low Band Edge, Hopping frequencies.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
68 (115)

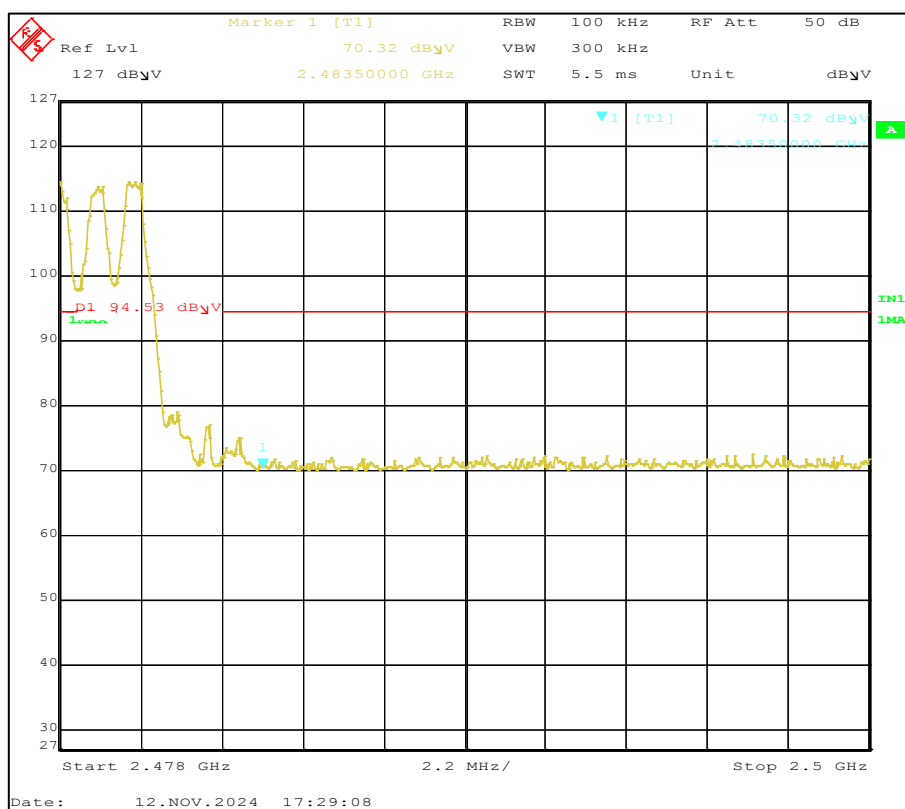


Figure 83. Conducted emission, High Band Edge, Hopping frequencies.

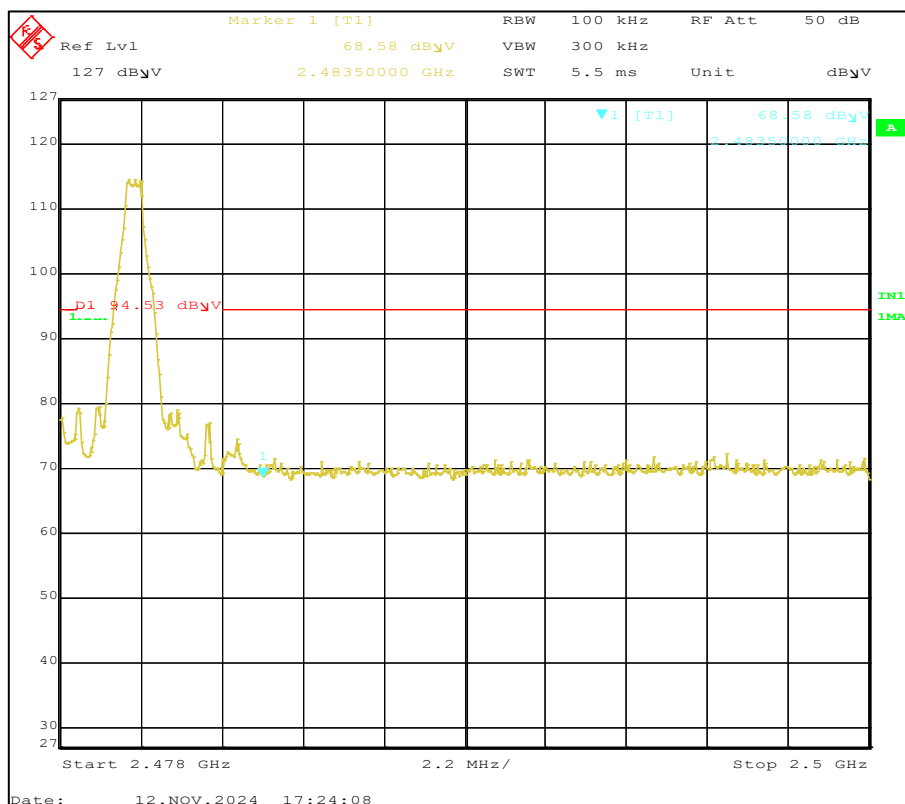


Figure 84. Conducted emission, High Band Edge, Single frequency 2480 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
69 (115)

Frequency range	Hopping	Single	Hopping	Single	Limit	Result
[GHz]	Peak [dBμV]	Peak [dBμV]	Margin [dB]	Margin [dB]	[dBμV]	
< 2.4000	71	72	23.53	22.53	94.53	PASSED
> 2.4835	72	72	22.53	22.53	94.53	PASSED

Table 14. Conducted band edge. Right radio. Final test result.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
70 (115)

2.7.2.2 Left radio

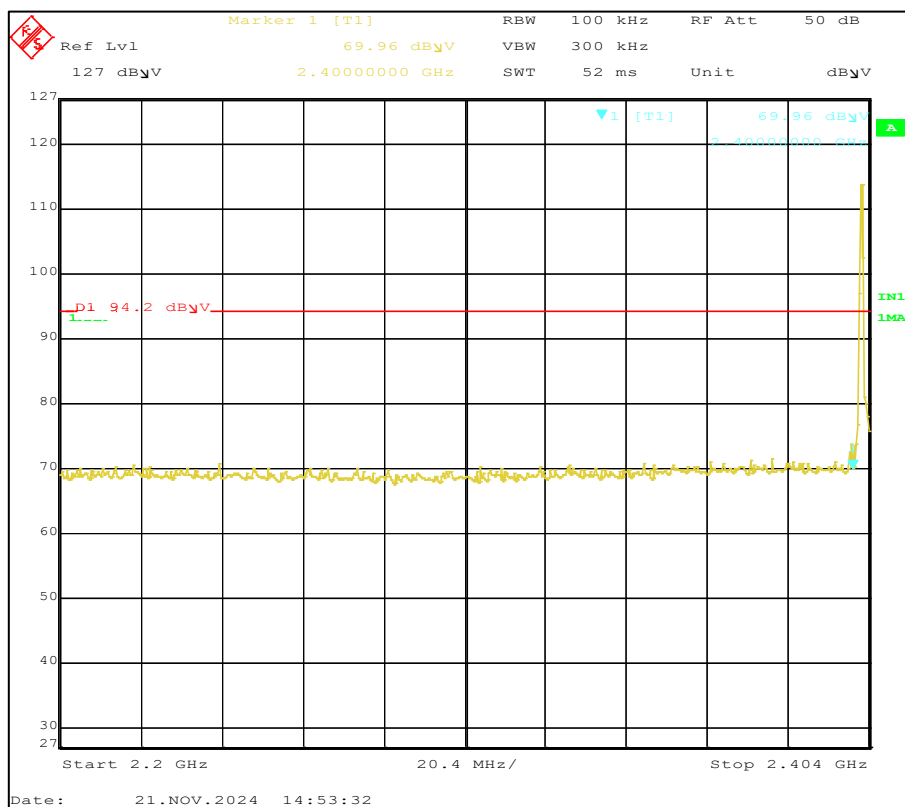


Figure 85. Conducted band edge. Low Band Edge. Single frequency 2402 MHz.

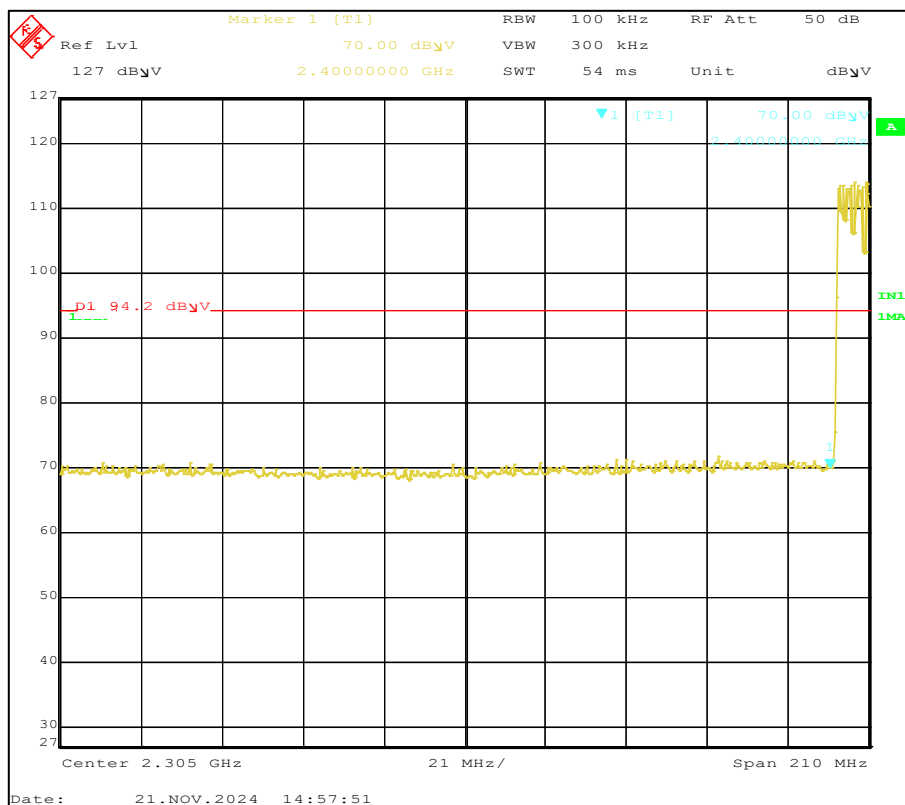


Figure 86. Conducted band edge. Low Band Edge. Hopping frequencies.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
71 (115)

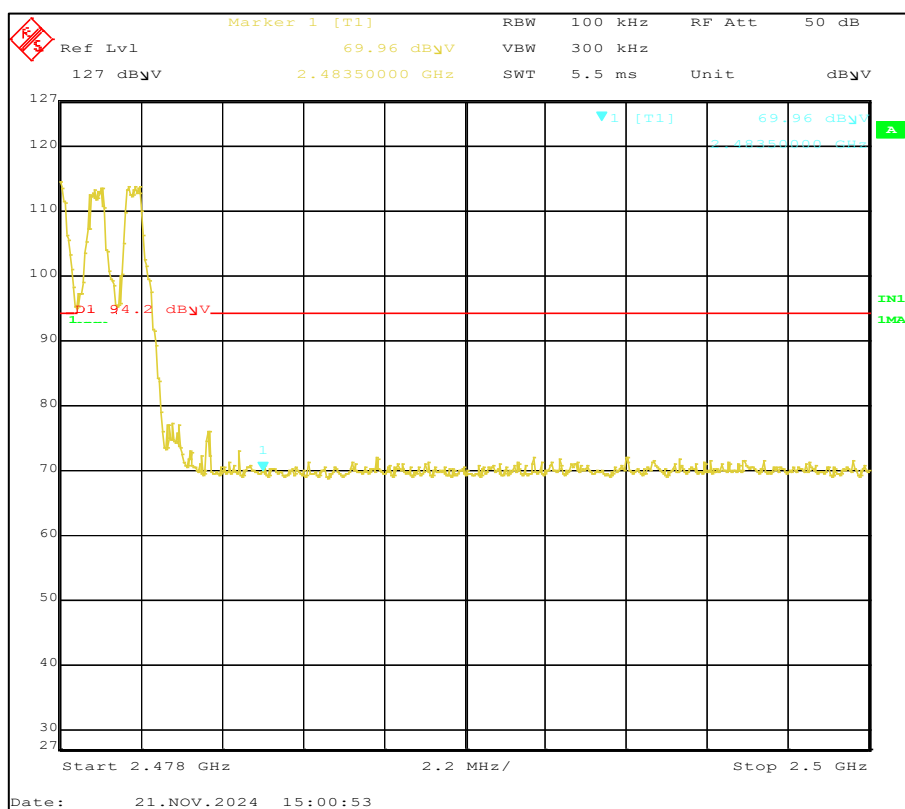


Figure 87. Conducted band edge. High Band Edge. Hopping frequencies.

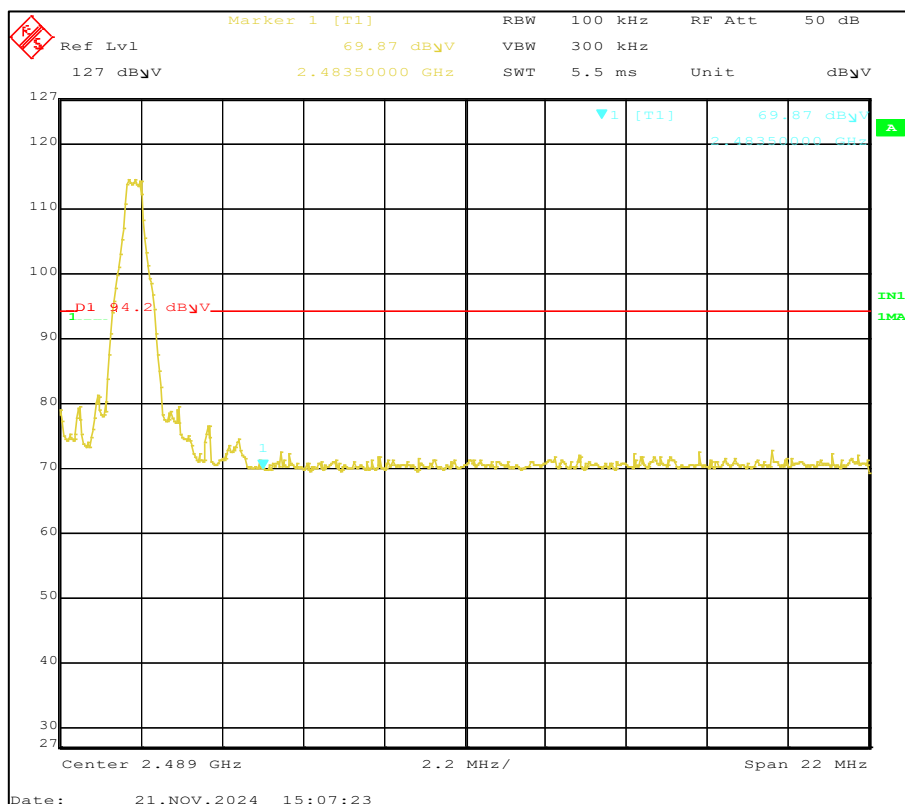


Figure 88. Conducted band edge. High Band Edge. Single frequency 2480 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
72 (115)

Frequency range	Hopping	Single	Hopping	Single	Limit	Result
[GHz]	Peak [dBμV]	Peak [dBμV]	Margin [dB]	Margin [dB]	[dBμV]	
< 2.4000	71	71	23.53	23.53	94.53	PASSED
> 2.4835	72	72	22.53	22.53	94.53	PASSED

Table 15. Conducted band edge. Left radio. Final test result.

2.7.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 16. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
73 (115)

2.8 Restricted-band band-edge.

Test specimen	2000-1 Fitting Unit
Test specification	KDB 558074 D01 15.247 Meas. Guidance v05.02
Test method	ANSI C63.10:2013 sec 6.10.5
Limits	FCC 47 CFR Part 15.209 (a) RSS Gen 8.9
Comments	-
Temperature / Humidity	23°C / 45%RH
Dates of measurements	2024-11-08
Test personnel	Søren Søltoft

2.8.1 Test setup

The test specimen (EUT) was tested in horizontal and vertical orientation.
The measurement was performed in a Semi Anechoic Chamber.

Above 1 GHz measurements were made with absorbers on the floor, the test specimen was placed 1.5 m above ground plane on a nonconductive table.

A measuring distance of 3 m was used in frequency range 30 MHz to 13 GHz.

In the range 1 to 3 GHz a 1 GHz High Pass filter and a 10 dB attenuator were applied at the antenna

Exploratory radiated emission measurements in the frequency range 1-6 GHz with absorbers on the floor were made by rotating the turntable between 0-360° and an antenna height of 1.5 m, in both horizontal and vertical antenna polarization.

Based on the preliminary measurements the frequencies with the highest emissions are selected for final radiated emission measurements. Final measurements were made by rotating the turntable and changing the height of the antenna to maximize the emission level.

Above 1GHz a RBW of 1 MHz was used.

During the tests the right and the left radio were set to radiate at the same frequency with modulation simultaneously.

The two selected frequencies were 2402 MHz and 2480 MHz.

See appendix 1 for photo of test setup.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
74 (115)

2.8.2 Test results

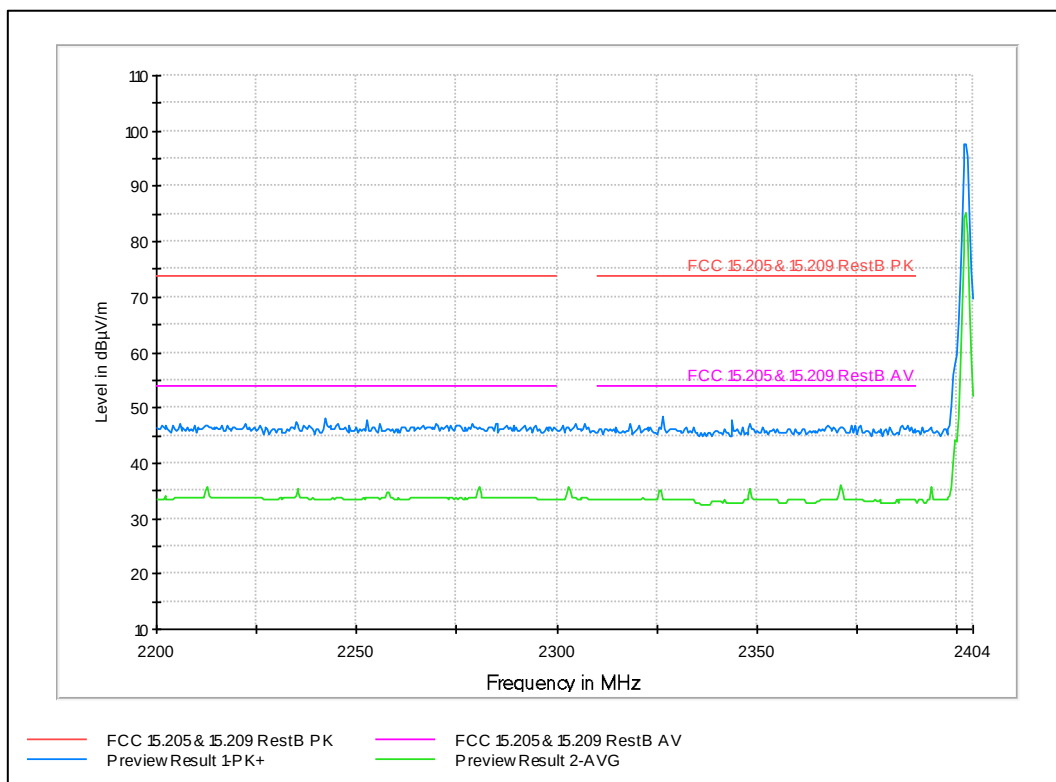


Figure 89. Low Band-edge. Test specimen horizontal -2 X 2402 MHz TX.

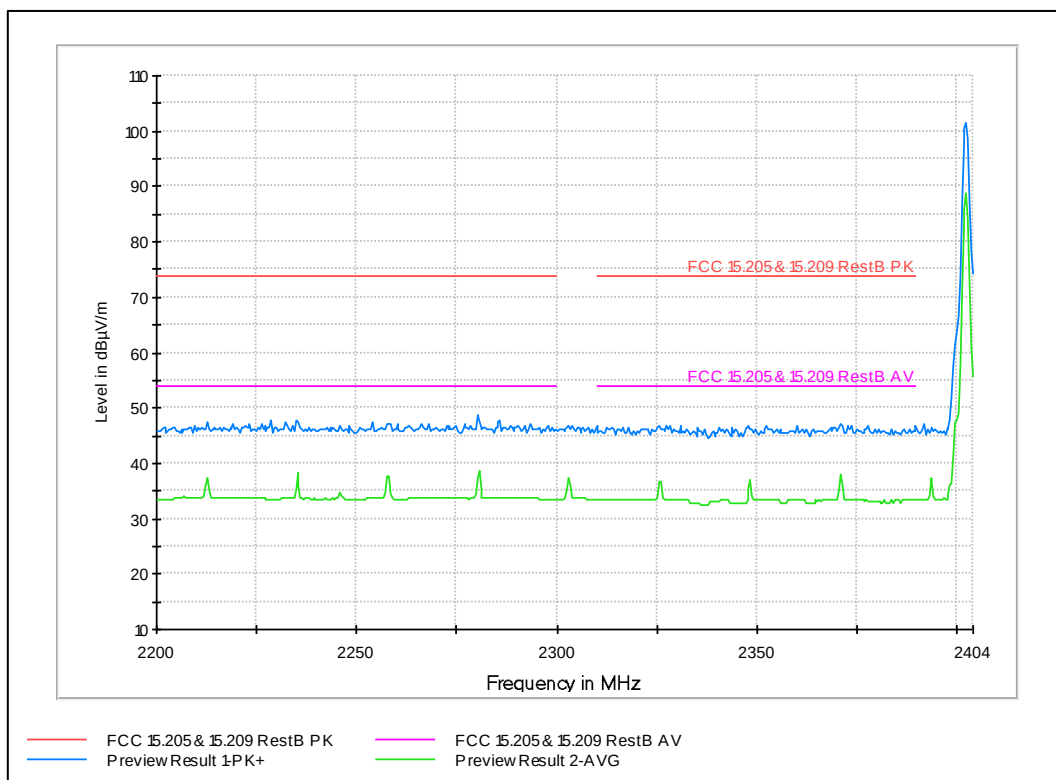


Figure 90. Low Band-edge. Test specimen vertical-2 X 2402 MHz TX.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
75 (115)

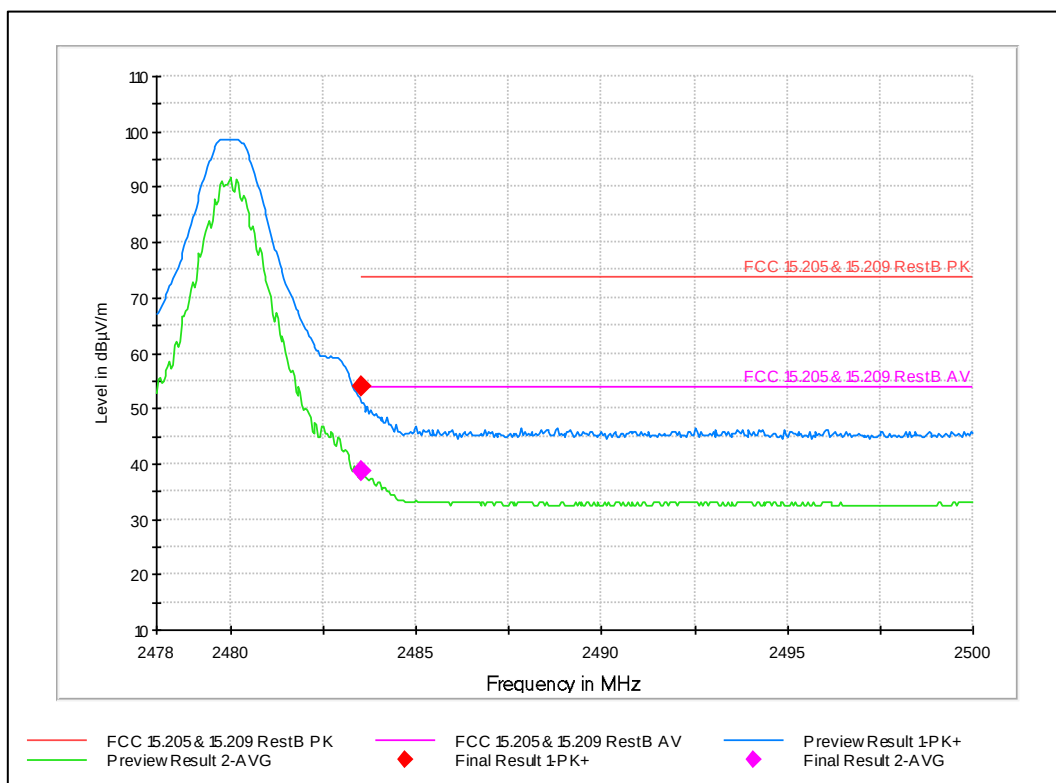


Figure 91. High Band-edge. Test specimen horizontal 2 X 2480 MHz TX.

Frequency (MHz)	Peak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)	Result
2483.511022	53.9	1000.000	165.0	V	39.0	20.1	74.0	PASSED

Table 17. High Band-edge. Test specimen horizontal 2 X 2480 MHz TX. Peak detector.

Frequency (MHz)	AVG (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)	Result
2483.511022	38.6	1000.000	165.0	V	39.0	15.4	54.0	PASSED

Table 18. High Band-edge. Test specimen horizontal 2 X 2480 MHz TX. Average detector.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
76 (115)

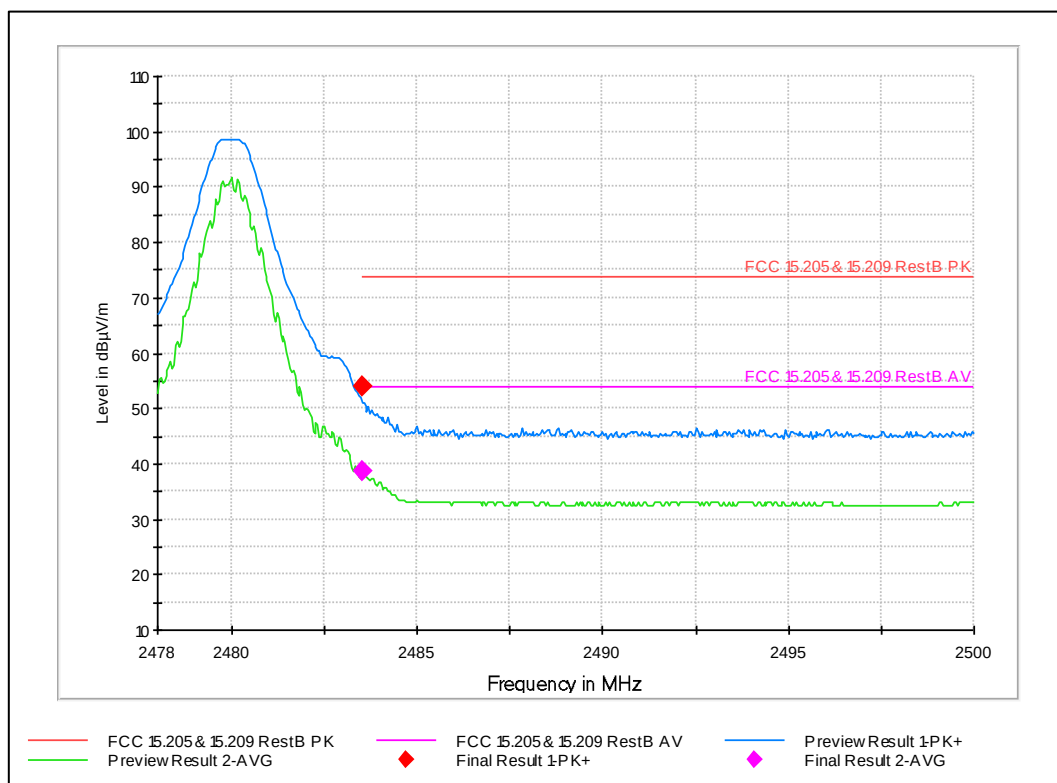


Figure 92. High Band-edge. Test specimen vertical 2 X 2480 MHz TX.

Frequency (MHz)	Peak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)	Result
2483.511022	55.2	1000	200.0	H	28.0	18.8	74.0	PASSED

Table 19. High Band-edge. Test specimen vertical 2 X 2480 MHz TX. Peak detector.

Frequency (MHz)	AVG (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)	Result
2483.511022	40.2	1000.000	200.0	H	28.0	13.8	54.0	PASSED

Table 20. High Band-edge. Test specimen vertical 2 X 2480 MHz TX. Average detector.

2.8.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
LNA amplifier 1 - 26 GHz	Miteq	JS4-01002600-36-5P	30150081	2024-11-14
Antenna Horn 1 - 18 GHz	Schwarzbeck	BBHA 1920D	30120777	2025-03-21
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 21. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
77 (115)

2.9 Emission in Restricted bands

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.247(d) RSS 247 B.6 (d)
Test method	ANSI C63.10:2020 sec 6.5 and 6.6
Frequency range	30 MHz – 25000 MHz
Limits	FCC 47 CFR Part 15.209 (a) RSS Gen 8.9
Comments	-
Temperature / Humidity	21°C / 49%RH, 21°C / 47%RH, 22°C / 56%RH 22°C / 50%RH, 22°C / 46%RH, 23°C / 45%RH
Dates of measurements	2024-10-01, 2024-10-03, 2024-10-09, 2024-10-30, 2024-11-05, 2024-11-06
Test personnel	Søren Søltøft

2.9.1 Test setup

The test specimen (EUT) was tested in horizontal and vertical orientation.
The measurement was performed in a Semi Anechoic Chamber.

Below 1 GHz measurements were made with reflective floor, the test specimen was placed 80 cm above ground plane on a nonconductive table.

Above 1 GHz measurements were made with absorbers on the floor, the test specimen was placed 1.5 m above ground plane on a nonconductive table.

A measuring distance of 3 m was used in frequency range 30 MHz to 13 GHz.

In the range 13 MHz to 18 MHz the distance was 1 m.

Above 18 GHz the distance was 0.5 m.

In the range 30 MHz to 1 GHz no filter was applied.

In the range 1 to 3 GHz a 1 GHz high pass filter and a 10 dB attenuator were applied at the antenna.

In the range 3 to 18 GHz a 3 GHz high pass filter was applied at the antenna.

Above 18 GHz no filter was applied.

Exploratory radiated emission measurements in the frequency range 30-1000 MHz with reflective floor were made by rotating the turntable between 0-360° and varying the antenna height between 1-4 m, in both horizontal and vertical antenna polarization.

Exploratory radiated emission measurements in the frequency range 1-6 GHz with absorbers on the floor were made by rotating the turntable between 0-360° and an antenna height of 1.5 m, in both horizontal and vertical antenna polarization.

Based on the preliminary measurements the frequencies with the highest emissions are selected for final radiated emission measurements. Final measurements were made by rotating the turntable and changing the height of the antenna to maximize the emission level.

In the frequency range 30 MHz to 1 GHz a RBW of 120 kHz was used.

Above 1GHz a RBW of 1 MHz was used.

During the tests the right and the left radio were set to radiate at the same frequency with modulation simultaneously.

Three selected frequencies are 2402 MHz, 2441 MHz and 2480 MHz.

See appendix 1 for photo of test setup.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
78 (115)

2.9.2 Test result

2.9.2.1 Test specimen vertical at 2402 MHz

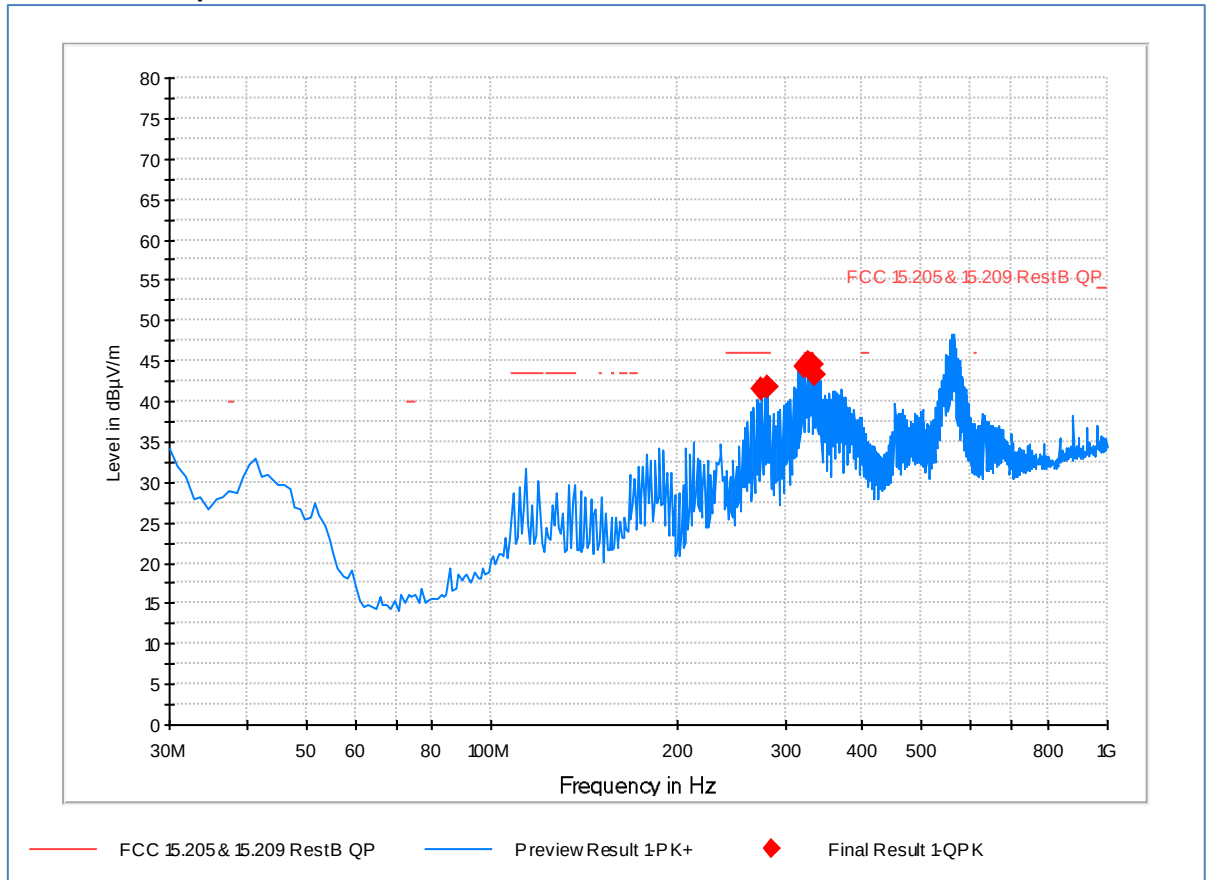


Figure 93. Emission in restricted bands, 30 -1000 MHz.

Frequency [MHz]	QP [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
275.169780	41.4	120	133.1	H	50.0	4.6	46.0	PASSED
280.821082	41.8	120	142.0	H	38.0	4.2	46.0	PASSED
323.165852	44.4	120	100.0	H	87.0	1.6	46.0	PASSED
325.991503	44.7	120	99.9	H	79.0	1.3	46.0	PASSED
328.817154	44.5	120	99.7	H	85.0	1.5	46.0	PASSED
331.642806	44.4	120	99.6	H	87.0	1.6	46.0	PASSED
334.468457	43.3	120	100.2	H	84.0	2.7	46.0	PASSED

Table 22. Emission in restricted bands results. 30 - 1000 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
79 (115)

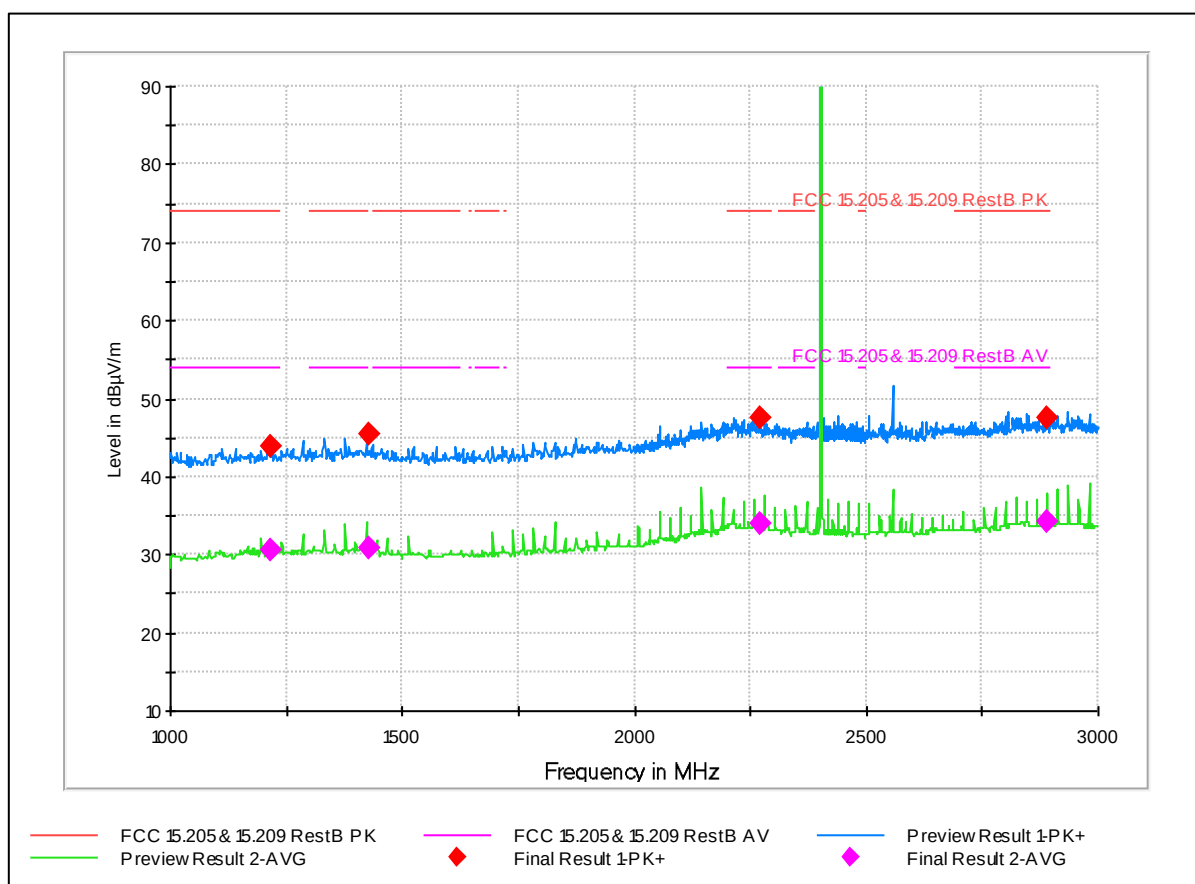


Figure 94. Emission in restricted bands results. 1 - 3 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
1215.628858	43.9	1000	366.0	H	123.0	30.1	74.0	PASSED
1426.145691	45.5	1000	326.0	H	255.0	28.5	74.0	PASSED
2270.130661	47.5	1000	279.0	H	215.0	26.5	74.0	PASSED
2888.781563	47.4	1000	170.1	H	288.0	26.6	74.0	PASSED

Table 23. Emission in restricted bands Peak results. 1 - 3 GHz..

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
1215.628858	30.6	1000	366.0	H	123.0	23.4	54.0	PASSED
1426.145691	30.9	1000	326.0	H	255.0	23.1	54.0	PASSED
2270.130661	34.1	1000	279.0	H	215.0	19.9	54.0	PASSED
2888.781563	34.3	1000	170.1	H	288.0	19.7	54.0	PASSED

Table 24. Emission in restricted bands Average results. 1 - 3 GHz..

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
80 (115)

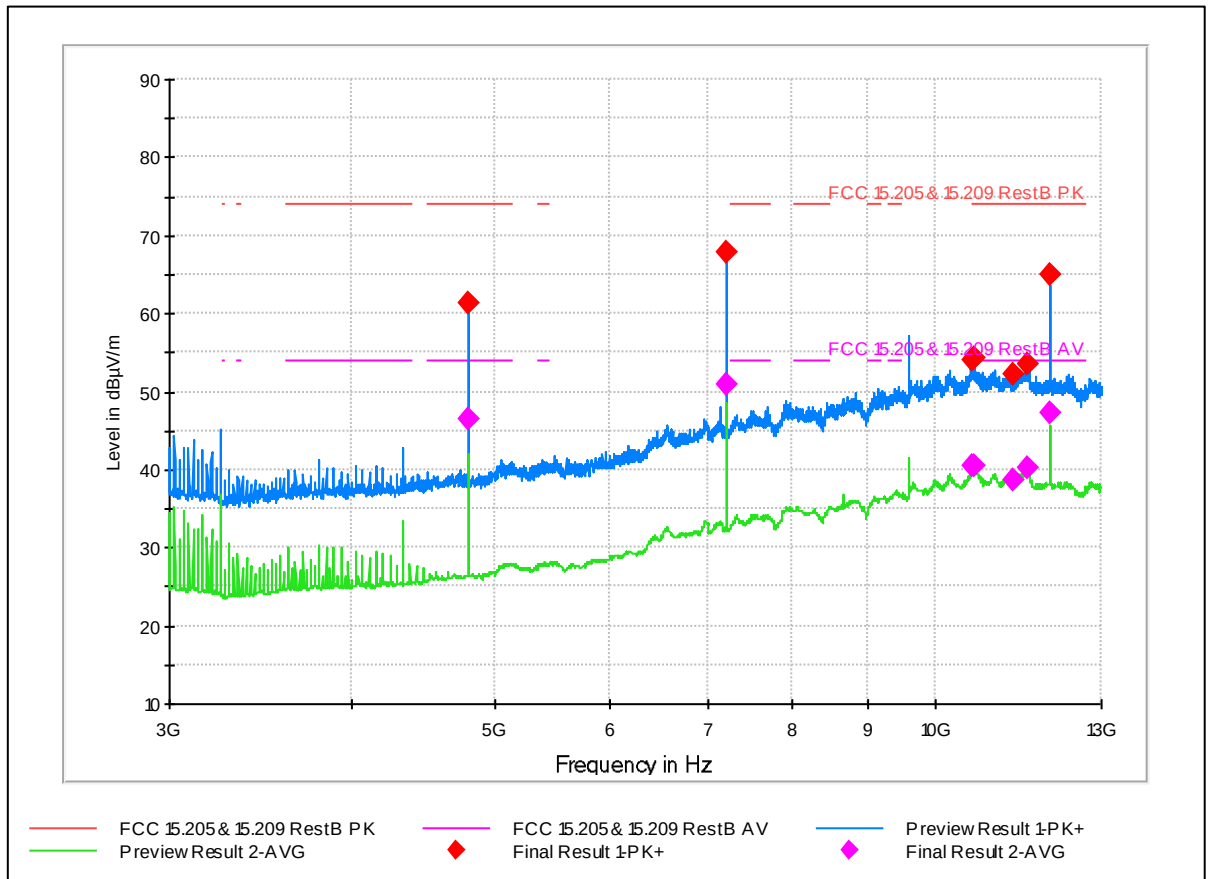


Figure 95. Emission in restricted bands results. 3 - 13 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4804.311222	61.4	1000	150.0	H	16.0	12.6	74.0	PASSED
7206.512826	67.8	1000	150.0	H	340.0	---	---	---
10611.226453	54.0	1000	259.0	V	34.0	20.0	74.0	PASSED
10634.978557	54.3	1000	281.0	H	50.0	19.7	74.0	PASSED
11319.033267	52.2	1000	285.0	V	0.0	21.8	74.0	PASSED
11565.538277	53.6	1000	150.0	V	292.0	20.4	74.0	PASSED
12010.920040	65.1	1000	217.0	H	322.0	8.9	74.0	PASSED

Table 25. Emission in restricted bands Peak results. 3 - 13 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4804.311222	46.5	1000	150.0	H	16.0	7.5	54.0	PASSED
7206.512826	51.0	1000	150.0	H	340.0	---	---	---
10611.226453	40.5	1000	259.0	V	34.0	13.5	54.0	PASSED
10634.978557	40.4	1000	281.0	H	50.0	13.6	54.0	PASSED
11319.033267	38.7	1000	285.0	V	0.0	15.3	54.0	PASSED
11565.538277	40.3	1000	150.0	V	292.0	13.7	54.0	PASSED
12010.920040	47.3	1000	217.0	H	322.0	6.7	54.0	PASSED

Table 26. Emission in restricted bands Average results. 3 - 13 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
81 (115)

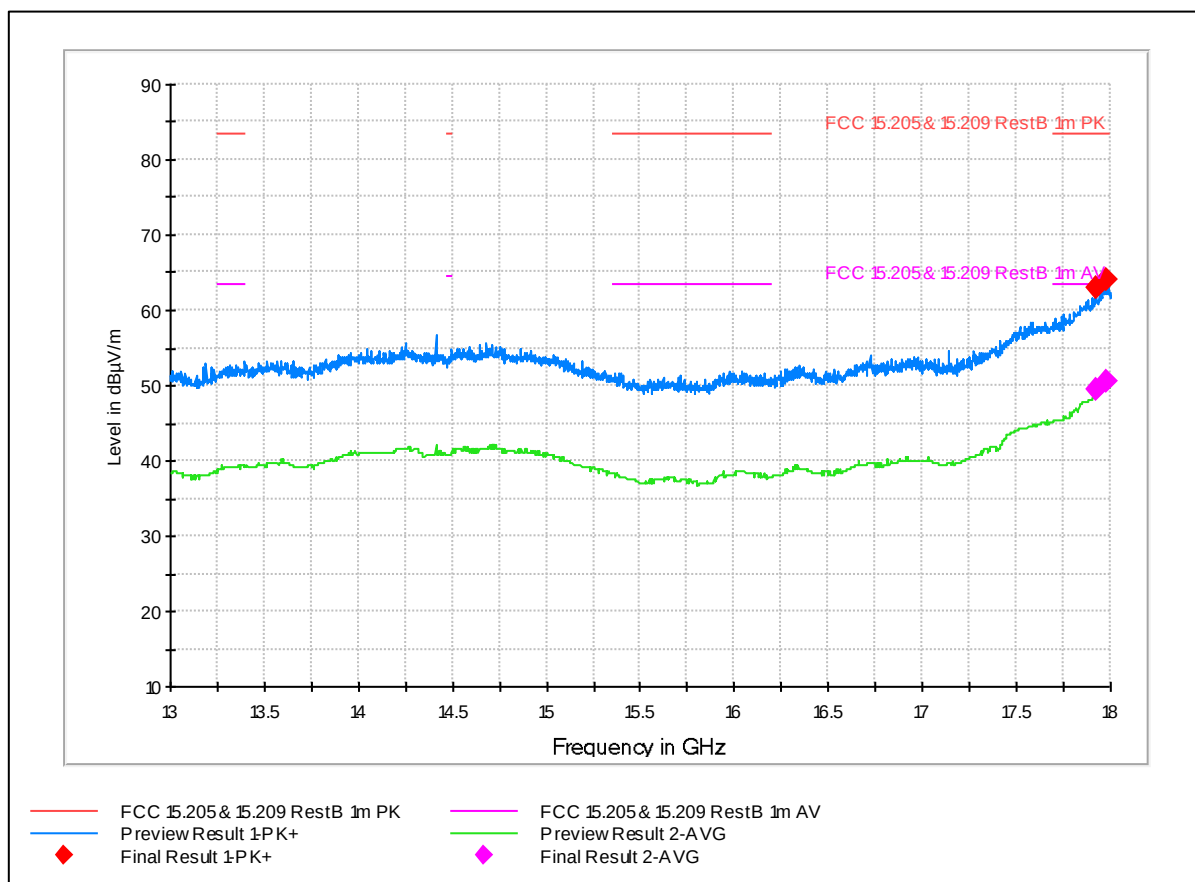


Figure 96. Emission in restricted bands results. 13 - 18 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 1 m factor	Average Limit at 1 m.	Peak limit at 1 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	9.54	63.5	83.5

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17919.839679	63.0	1000	100.0	V	230.0	20.5	83.5	PASSED
17973.939880	64.1	1000	300.0	H	77.0	19.4	83.5	PASSED

Table 27. Emission in restricted bands Peak results. 13 - 18 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17919.839679	49.5	1000	100.0	V	230.0	14.0	63.5	PASSED
17973.939880	50.5	1000	300.0	H	77.0	13.0	63.5	PASSED

Table 28. Emission in restricted bands Average results. 13 - 18 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
82 (115)

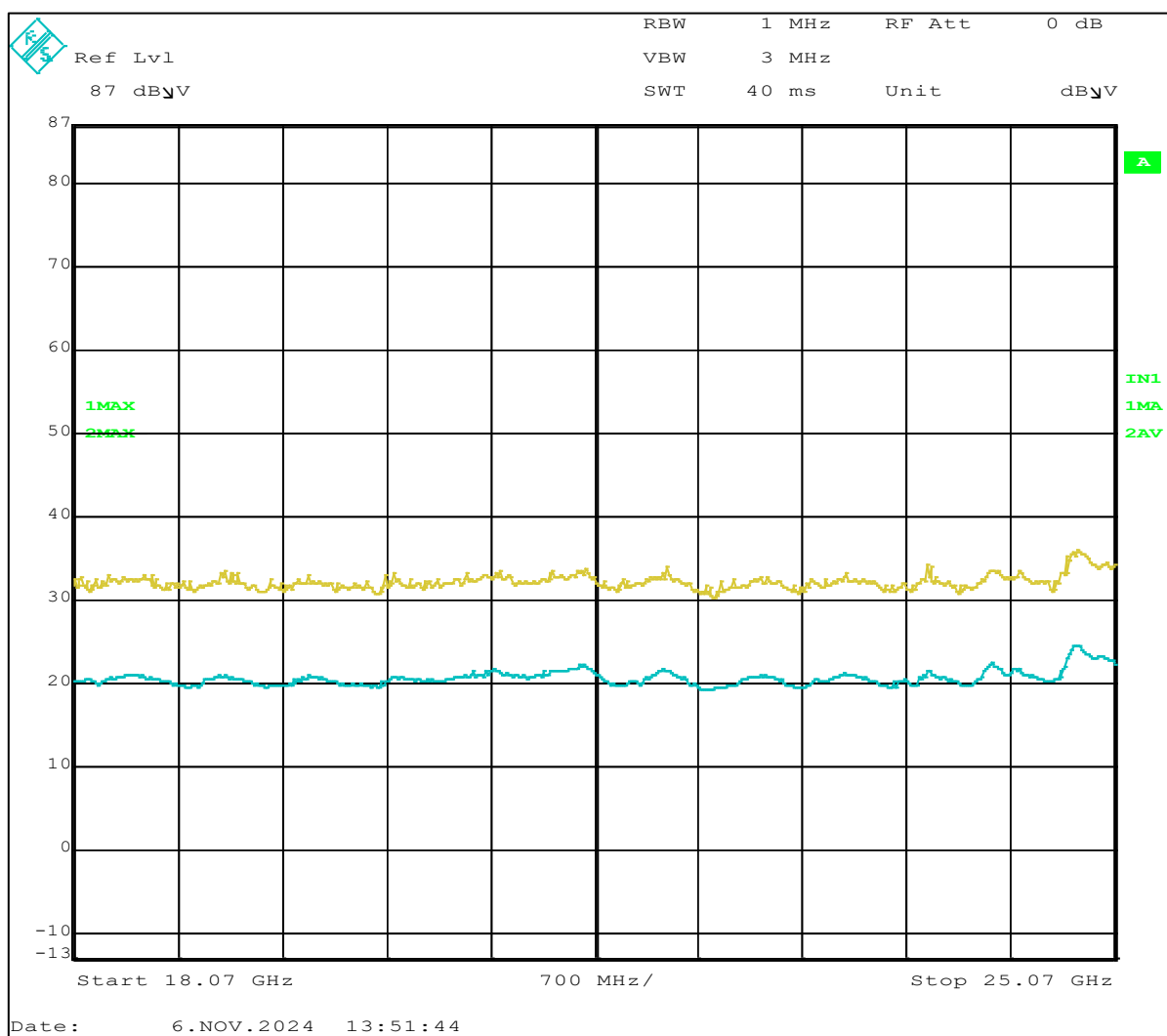


Figure 97. Emission in restricted bands. 18 – 25 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 0.5 m factor	Average Limit at 0.5 m.	Peak limit at 0.5 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	15.56	69.54	89.54

Table 29. Calculation of limit at 0.5 m.

Frequency GHz	AF dB/m	Cable loss dB	Correction factor dB/m
18	40.3	< 2	42.3
25	40.6	< 2	42.6

Table 30. Correction factors 18 – 25 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	89.54	PASSED

Table 31. Radiated emission test results 18 - 25 GHz. Peak detector.

Frequency [MHz]	AVG [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	69.54	PASSED

Table 32. Radiated emission test results 18 – 25 GHz. Average detector.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
83 (115)

2.9.2.2 Test specimen horizontal at 2402 MHz

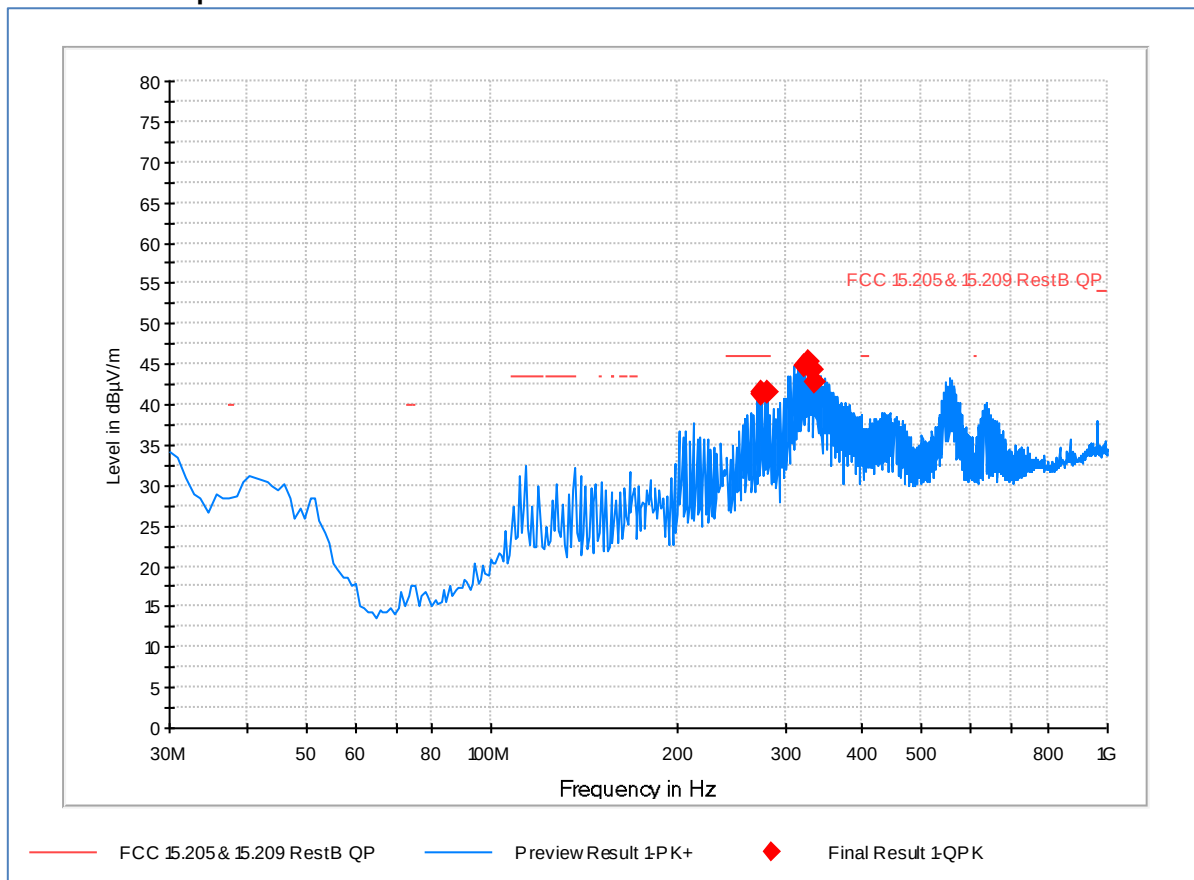


Figure 98. Emission in restricted bands, 30 -1000 MHz.

Frequency [MHz]	QP [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
275.169780	41.4	120	132.8	H	69.0	4.6	46.0	PASSED
275.169780	41.3	120	133.1	H	54.0	4.7	46.0	PASSED
280.821082	41.5	120	135.0	H	61.0	4.5	46.0	PASSED
323.165852	44.9	120	100.0	H	98.0	1.1	46.0	PASSED
325.991503	45.2	120	99.9	H	94.0	0.8	46.0	PASSED
328.817154	44.4	120	100.2	H	93.0	1.6	46.0	PASSED
331.642806	44.2	120	99.9	H	96.0	1.8	46.0	PASSED
334.468457	42.9	120	100.0	H	100.0	3.1	46.0	PASSED

Table 33. Emission in restricted bands results. 30 - 1000 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
84 (115)

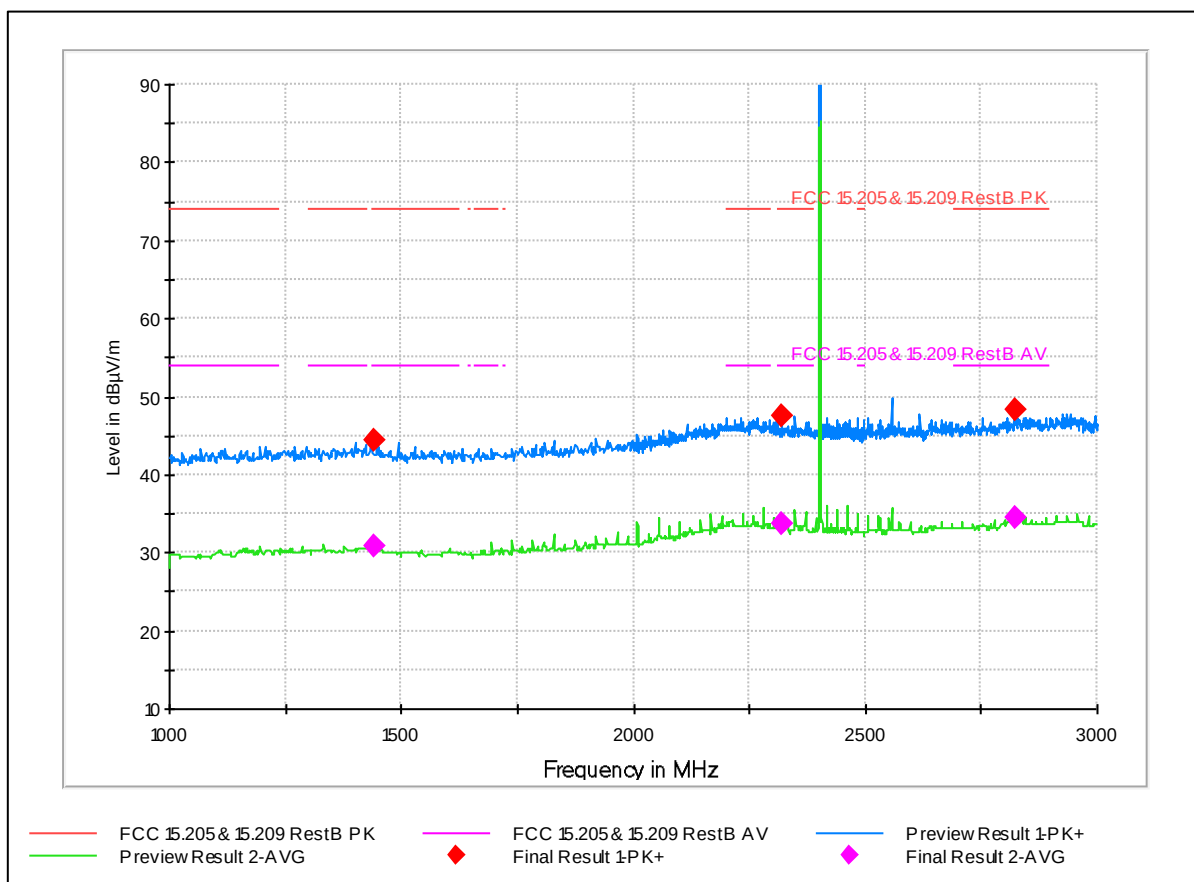


Figure 99. Emission in restricted bands results. 1 - 3 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1441.773747	44.3	1000	270.9	V	208.0	29.7	74.0	PASSED
2321.542886	47.4	1000	149.9	H	304.0	26.6	74.0	PASSED
2821.443287	48.3	1000	241.2	V	154.0	25.7	74.0	PASSED

Table 34. Emission in restricted bands Peak results. 1 - 3 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1441.773747	30.9	1000	270.9	V	208.0	23.1	54.0	PASSED
2321.542886	33.7	1000	149.9	H	304.0	20.3	54.0	PASSED
2821.443287	34.4	1000	241.2	V	154.0	19.6	54.0	PASSED

Table 35. Emission in restricted bands Average results. 1 - 3 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
85 (115)

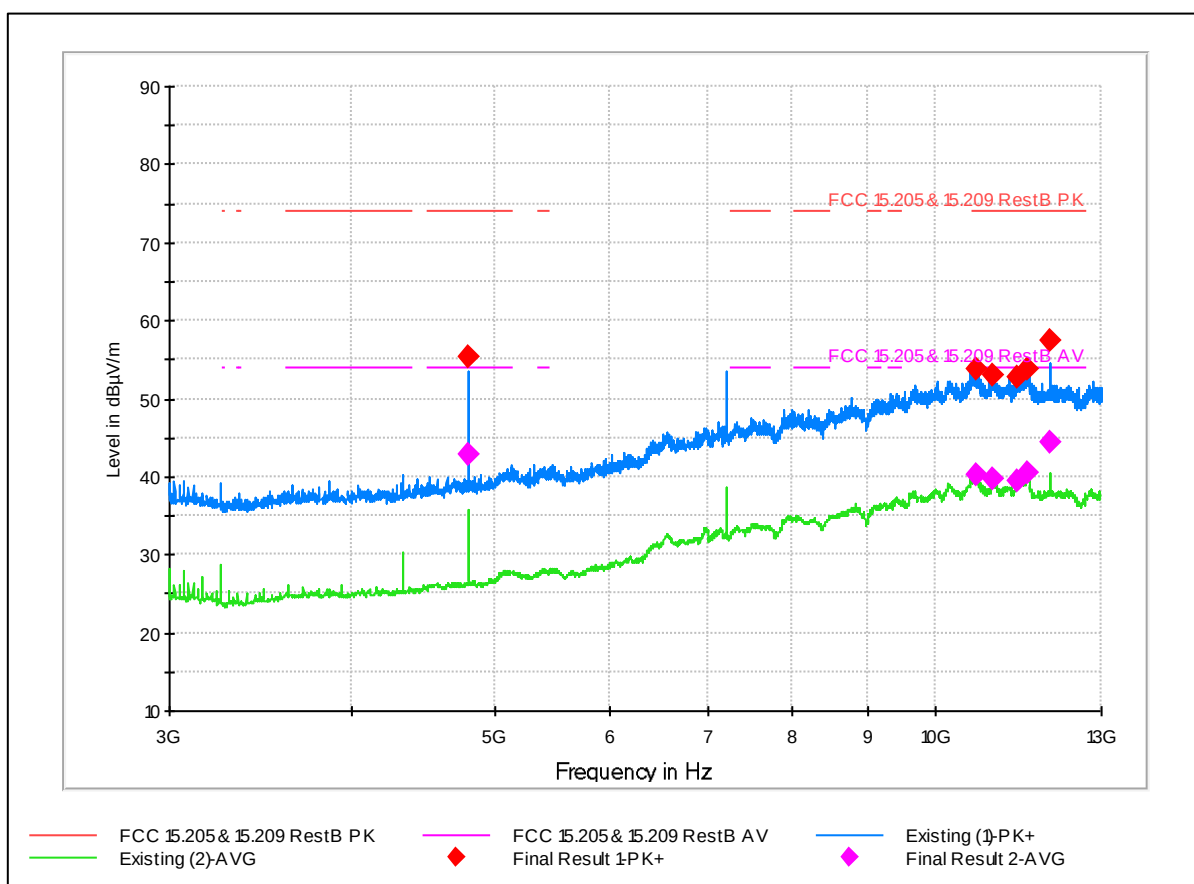


Figure 100. Emission in restricted bands results. 3 - 13 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4804.311222	55.3	1000	186.0	V	165.0	18.7	74.0	PASSED
10664.318637	53.7	1000	295.0	V	248.0	20.3	74.0	PASSED
10962.615832	53.0	1000	298.0	V	111.0	21.0	74.0	PASSED
11391.773547	52.6	1000	400.0	H	252.0	21.4	74.0	PASSED
11559.426253	53.9	1000	341.0	V	291.0	20.1	74.0	PASSED
12010.420040	57.5	1000	241.0	V	123.0	16.5	74.0	PASSED

Table 36. Emission in restricted bands. Peak results. 3 - 13 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4804.311222	42.8	1000	186.0	V	165.0	11.2	54.0	PASSED
10664.318637	40.1	1000	295.0	V	248.0	13.9	54.0	PASSED
10962.615832	39.7	1000	298.0	V	111.0	14.3	54.0	PASSED
11391.773547	39.5	1000	400.0	H	252.0	14.5	54.0	PASSED
11559.426253	40.4	1000	341.0	V	291.0	13.6	54.0	PASSED
12010.420040	44.3	1000	241.0	V	123.0	9.7	54.0	PASSED

Table 37. Emission in restricted bands. Average results. 3 - 13 GHz..

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
86 (115)

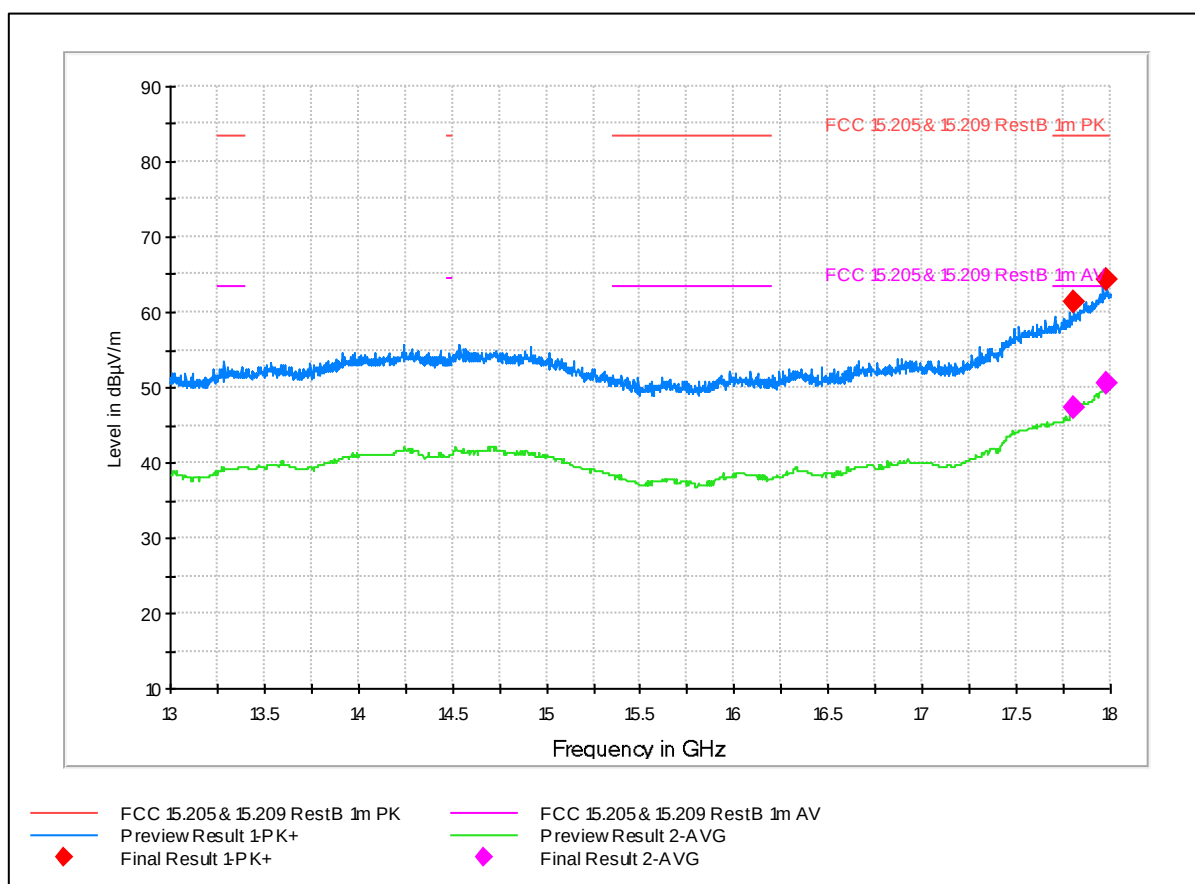


Figure 101. Emission in restricted bands results. 13 - 18 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 1 m factor	Average Limit at 1 m.	Peak limit at 1 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	9.54	63.5	83.5

Table 38. Calculation of limit at 1 m.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17803.503206	61.3	1000	198.0	V	51.0	22.2	83.5	PASSED
17975.247896	64.4	1000	269.0	V	21.0	19.1	83.5	PASSED

Table 39. Emission in restricted bands. Peak results. 13 - 18 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17803.503206	47.4	1000	198.0	V	51.0	16.1	63.5	PASSED
17975.247896	50.5	1000	269.0	V	21.0	13.0	63.5	PASSED

Table 40. Emission in restricted band.s Average results. 13 - 18 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
87 (115)

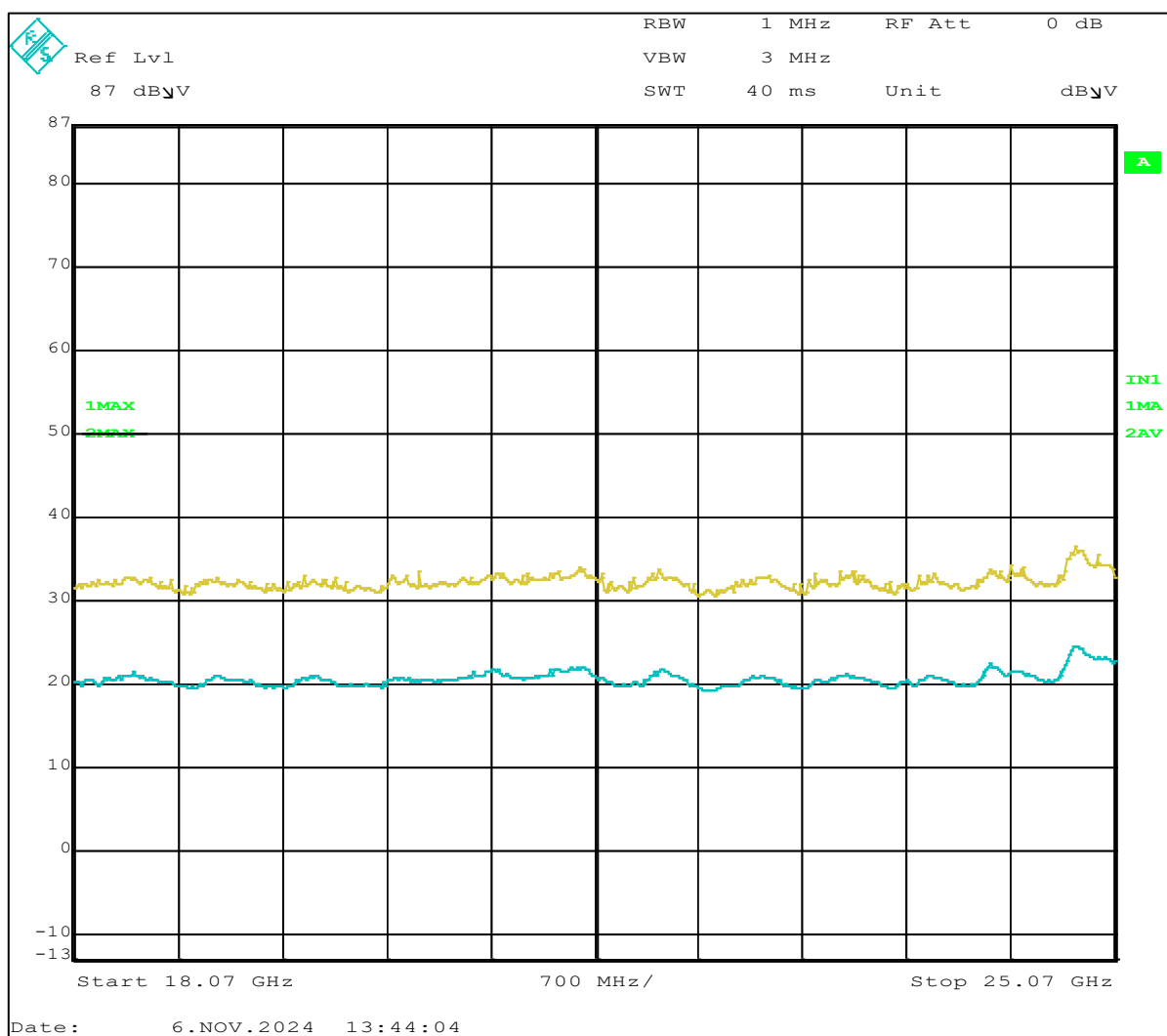


Figure 102. Emission in restricted bands. 18 – 25 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 0.5 m factor	Average Limit at 0.5 m.	Peak limit at 0.5 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	15.56	69.54	89.54

Table 41. Calculation of limit at 0.5 m.

Frequency GHz	AF dB/m	Cable loss dB	Correction factor dB/m
18	40.3	< 2	42.3
25	40.6	< 2	42.6

Table 42. Correction factors 18 – 25 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	89.54	PASSED

Table 43. Radiated emission test results 18 - 25 GHz. Peak detector.

Frequency [MHz]	AVG [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	69.54	PASSED

Table 44. Radiated emission test results 18 – 25 GHz. Average detector.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
88 (115)

2.9.2.3 Test specimen vertical at 2441 MHz

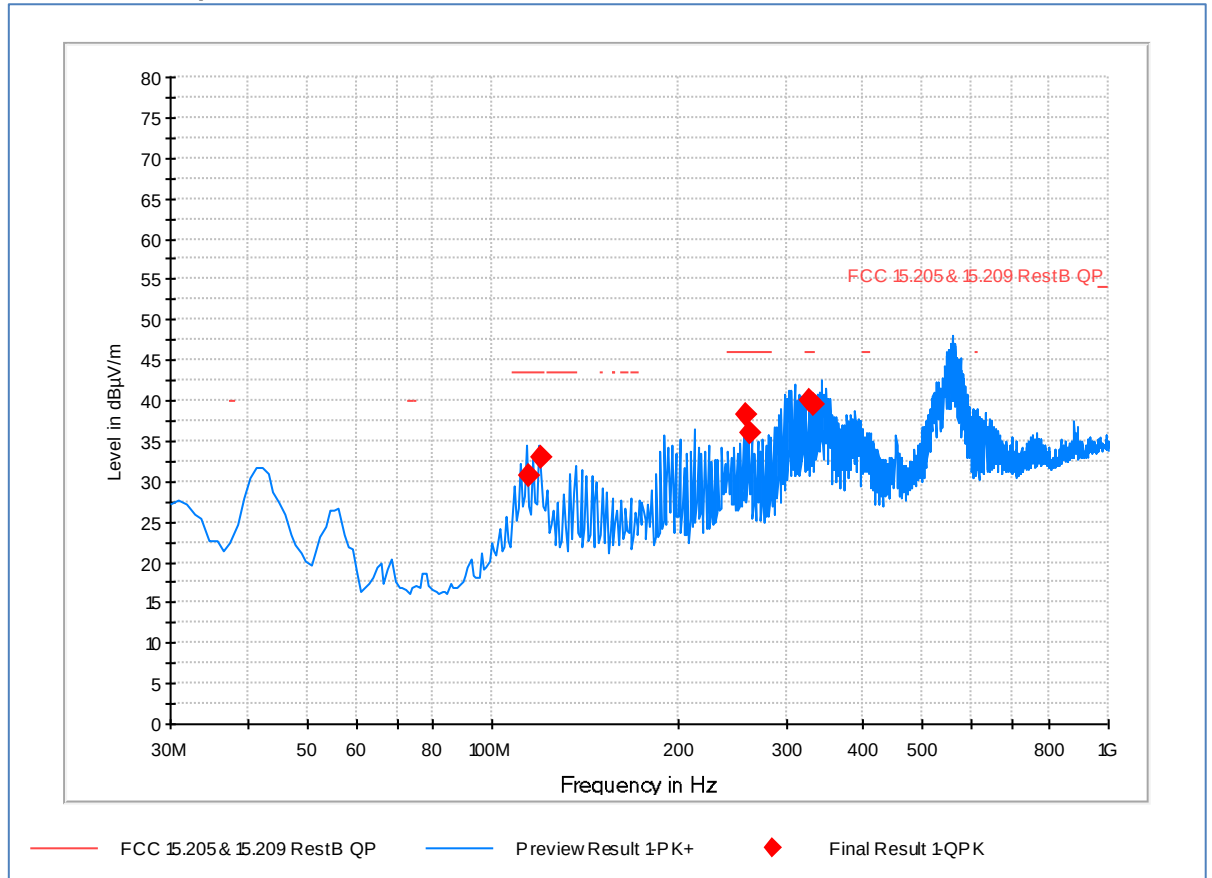


Figure 103. Emission in restricted bands, 30 -1000 MHz.

Frequency [MHz]	QP [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
114.307655	30.8	120	99.9	V	20.0	12.7	43.5	PASSED
119.958958	33.0	120	99.9	V	115.0	10.5	43.5	PASSED
258.255872	38.2	120	100.1	V	189.0	7.8	46.0	PASSED
261.081523	36.0	120	100.2	H	31.0	10.0	46.0	PASSED
325.991503	40.0	120	99.9	H	294.0	6.0	46.0	PASSED
331.642806	39.6	120	99.8	H	108.0	6.4	46.0	PASSED

Table 45. Emission in restricted bands results. 30 - 1000 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
89 (115)

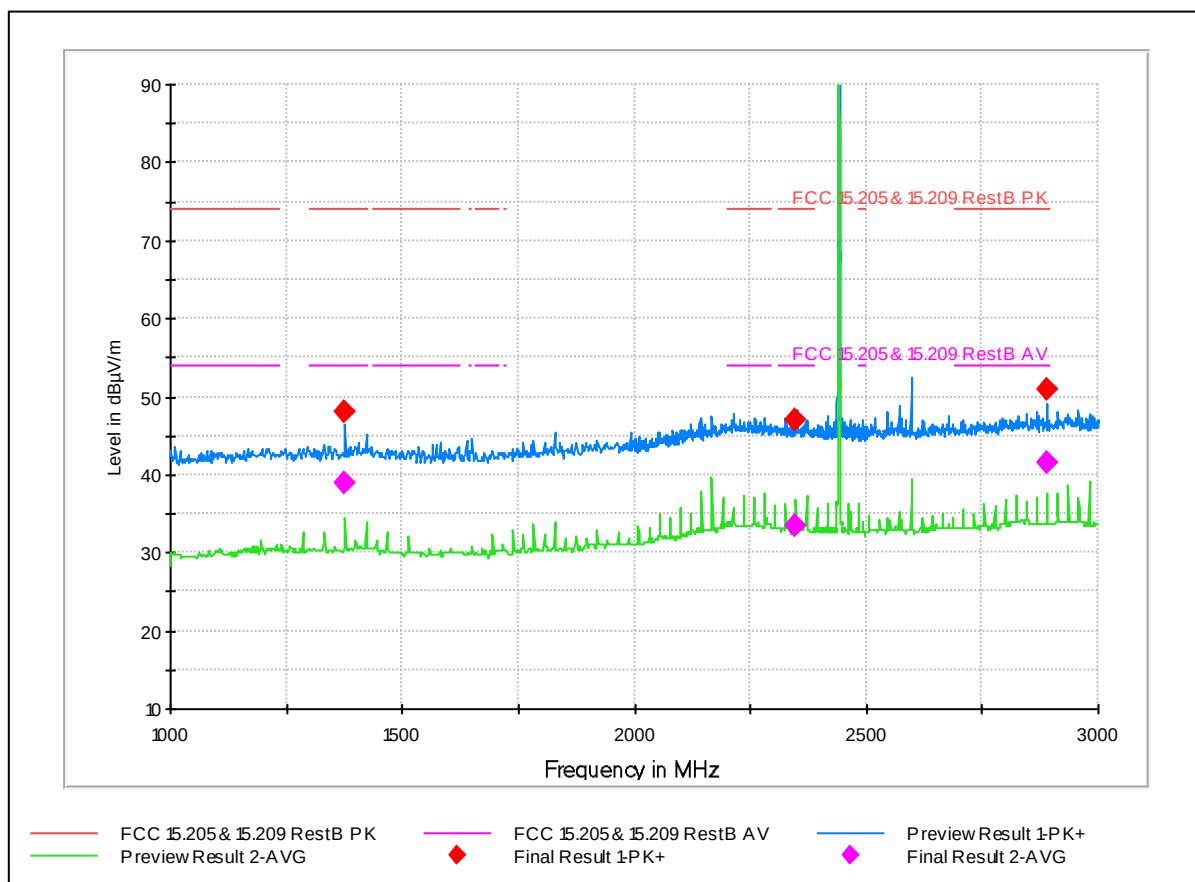


Figure 104. Emission in restricted bands results. 1 - 3 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1377.353507	48.0	1000	150.2	H	5.0	26.0	74.0	PASSED
2345.300601	46.9	1000	255.2	V	74.0	27.1	74.0	PASSED
2890.081563	50.8	1000	149.9	H	5.0	23.2	74.0	PASSED

Table 46. Emission in restricted bands, Peak results. 1 - 3 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1377.353507	38.9	1000	150.2	H	5.0	15.1	54.0	PASSED
2345.300601	33.5	1000	255.2	V	74.0	20.5	54.0	PASSED
2890.081563	41.4	1000	149.9	H	5.0	12.6	54.0	PASSED

Table 47. Emission in restricted bands, Average results. 1 - 3 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
90 (115)

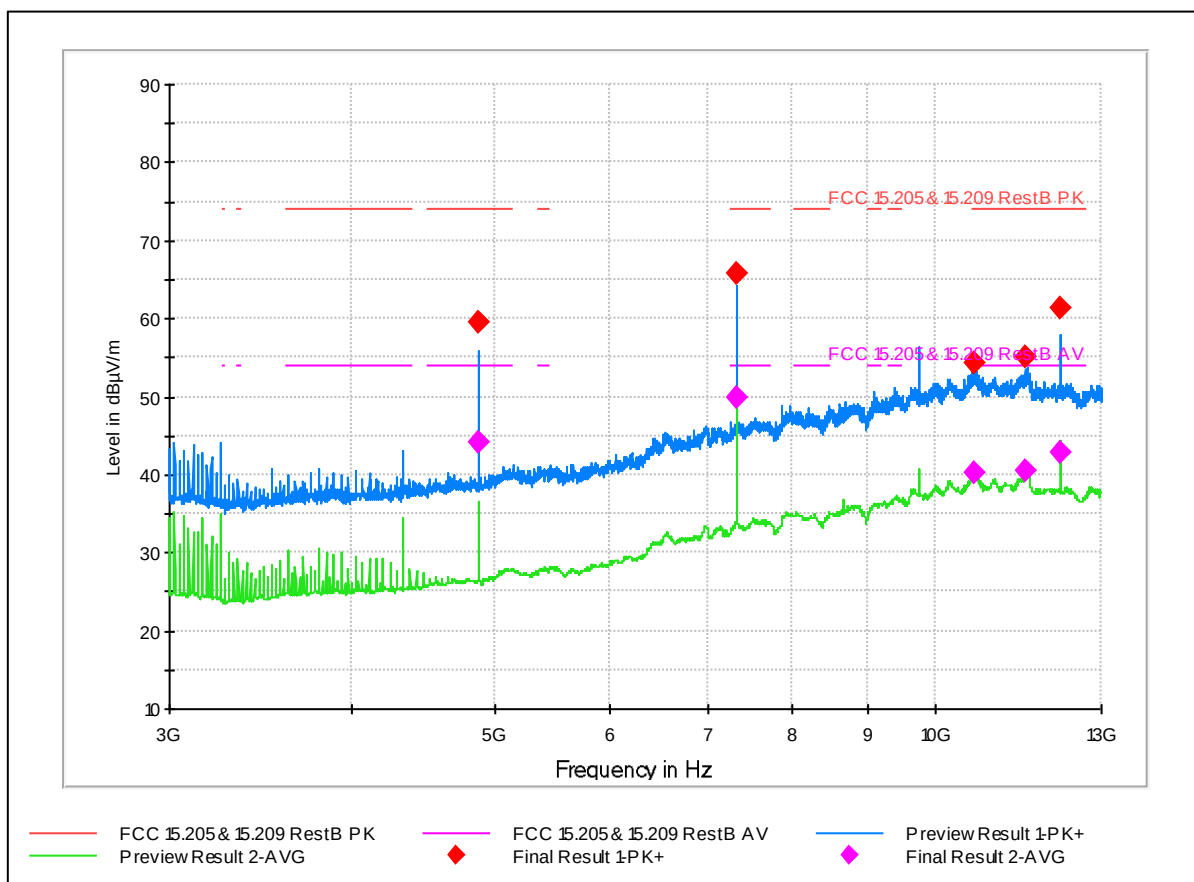


Figure 105. Emission in restricted bands results. 3 - 13 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
4882.063527	59.5	1000	177.0	H	316.0	14.5	74.0	PASSED
7322.545291	65.8	1000	224.0	H	335.0	8.2	74.0	PASSED
10644.990581	54.3	1000	248.0	H	144.0	19.7	74.0	PASSED
11554.918237	55.0	1000	231.0	H	100.0	19.0	74.0	PASSED
12204.908818	61.3	1000	150.0	H	337.0	12.7	74.0	PASSED

Table 48. Emission in restricted bands, Peak results. 3 - 13 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
4882.063527	44.2	1000	177.0	H	316.0	9.8	54.0	PASSED
7322.545291	49.9	1000	224.0	H	335.0	4.1	54.0	PASSED
10644.990581	40.3	1000	248.0	H	144.0	13.7	54.0	PASSED
11554.918237	40.5	1000	231.0	H	100.0	13.5	54.0	PASSED
12204.908818	42.8	1000	150.0	H	337.0	11.2	54.0	PASSED

Table 49. Emission in restricted bands, Average results. 3 - 13 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
91 (115)

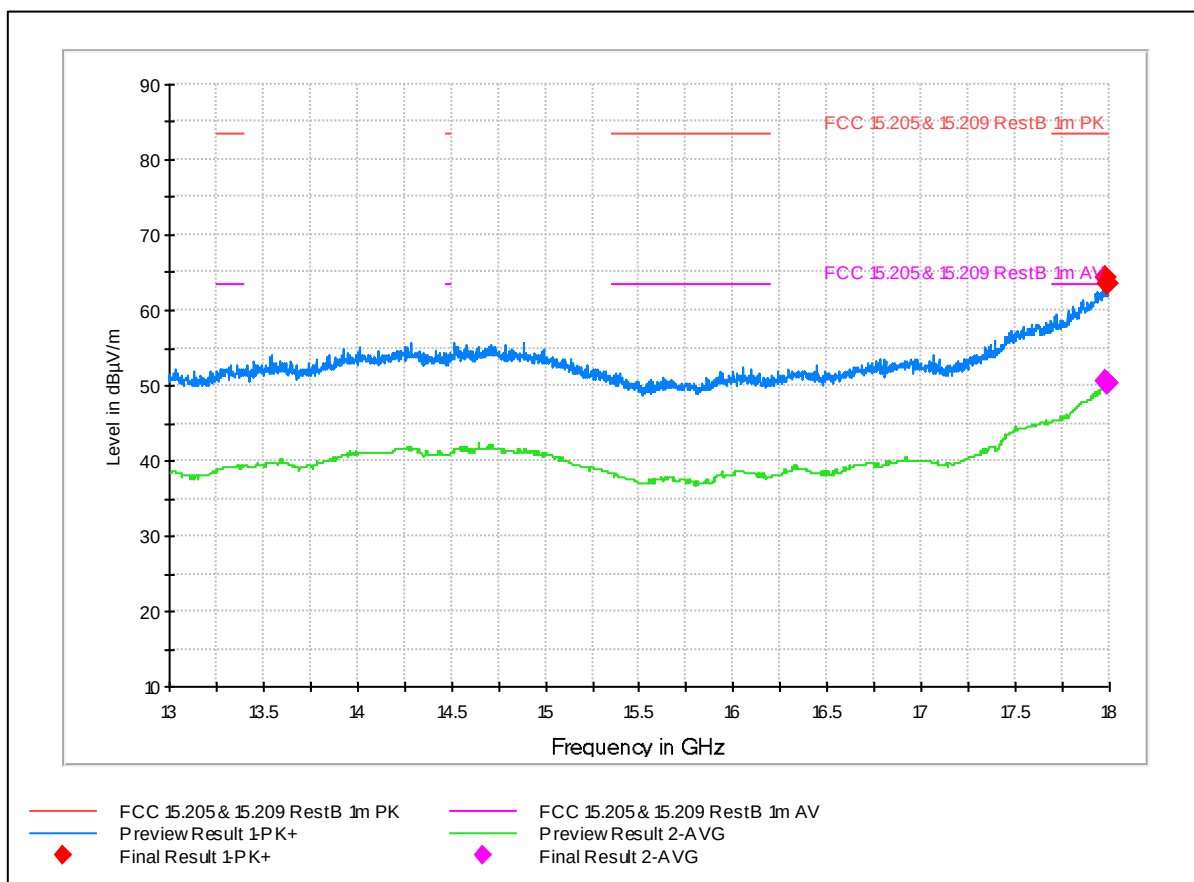


Figure 106. Emission in restricted bands results. 13 - 18 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 1 m factor	Average Limit at 1 m.	Peak limit at 1 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	9.54	63.5	83.5

Table 50. Calculation of limit at 1 m.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17980.759920	64.4	1000	269.0	V	232.0	19.1	83.5	PASSED
17991.891984	63.5	1000	191.0	V	236.0	20.0	83.5	PASSED

Table 51. Emission in restricted bands, Peak results. 13 - 18 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17980.759920	50.5	1000	269.0	V	232.0	13.0	63.5	PASSED
17991.891984	50.4	1000	191.0	V	236.0	13.1	63.5	PASSED

Table 52. Emission in restricted bands, Average results. 13 - 18 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
92 (115)

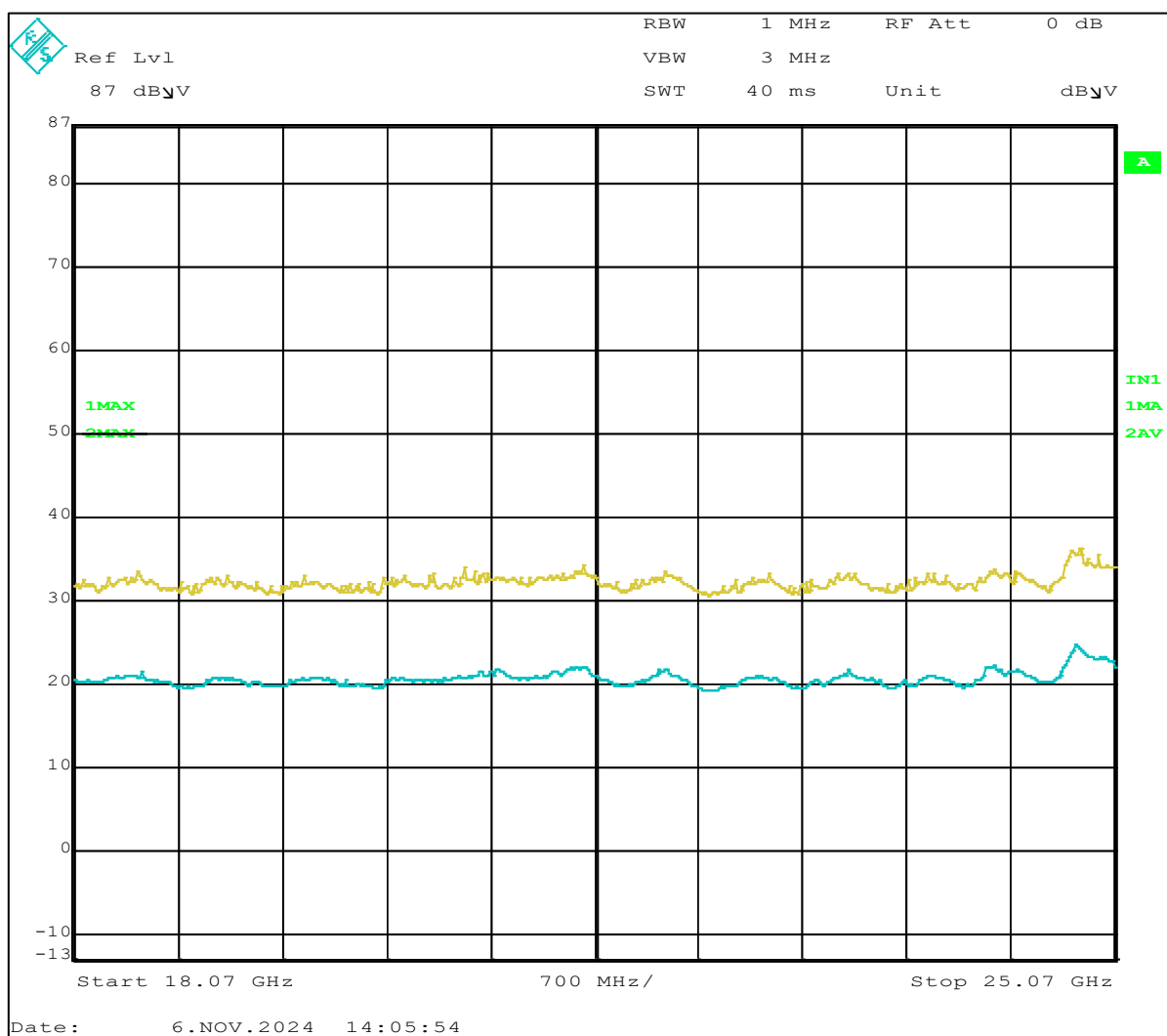


Figure 107. Emission in restricted bands. 18 – 25 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 0.5 m factor	Average Limit at 0.5 m.	Peak limit at 0.5 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	15.56	69.54	89.54

Table 53. Calculation of limit at 0.5 m.

Frequency GHz	AF dB/m	Cable loss dB	Correction factor dB/m
18	40.3	< 2	42.3
25	40.6	< 2	42.6

Table 54. Correction factors 18 – 25 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	89.54	PASSED

Table 55. Radiated emission test results 18 - 25 GHz. Peak detector.

Frequency [MHz]	AVG [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	69.54	PASSED

Table 56. Radiated emission test results 18 – 25 GHz. Average detector.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
93 (115)

2.9.2.4 Test specimen horizontal at 2441 MHz

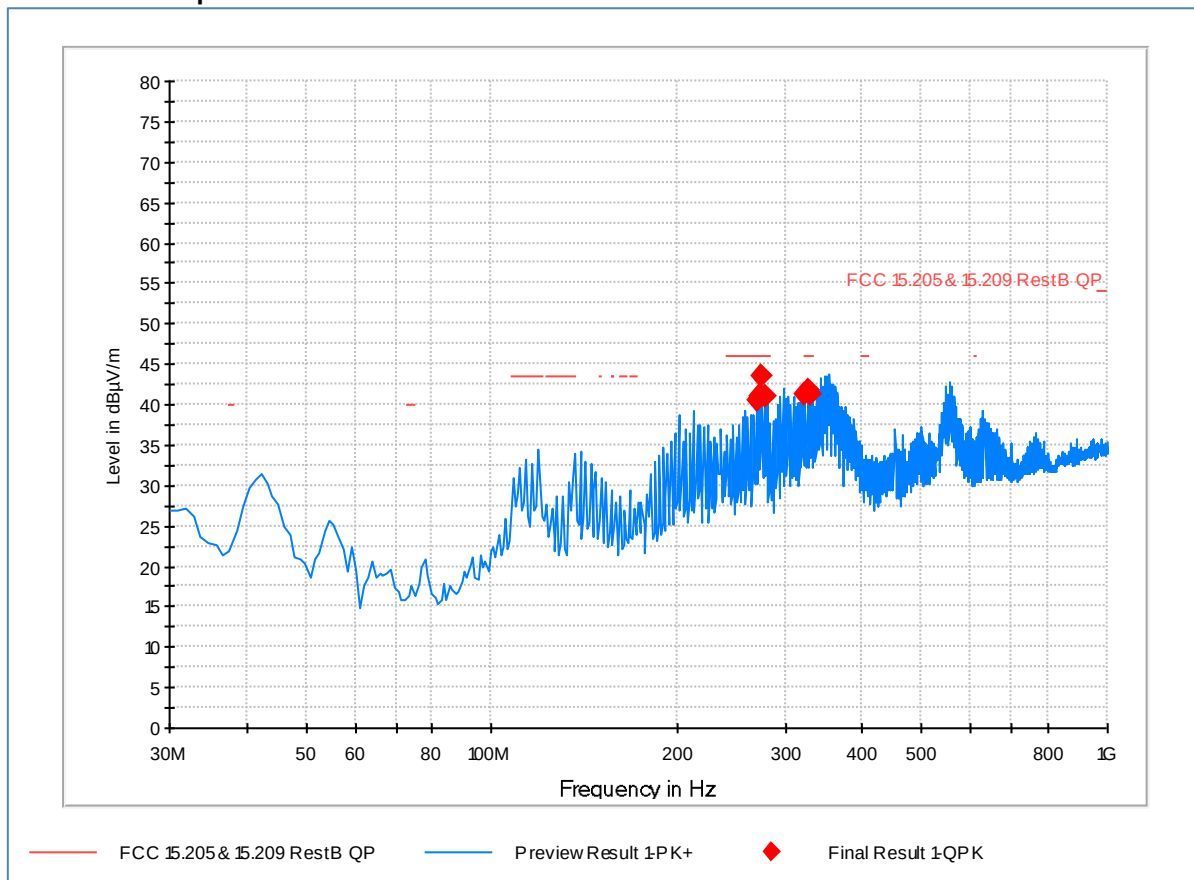


Figure 108. Emission in restricted bands, 30 -1000 MHz.

Frequency [MHz]	QP [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
269.518477	40.6	120	99.9	V	192.0	5.4	46.0	PASSED
272.344128	41.0	120	100.0	V	203.0	5.0	46.0	PASSED
275.169780	43.4	120	99.9	V	193.0	2.6	46.0	PASSED
277.995431	41.0	120	100.0	V	197.0	5.0	46.0	PASSED
323.165852	41.2	120	99.9	H	294.0	4.8	46.0	PASSED
325.991503	41.8	120	99.6	H	298.0	4.2	46.0	PASSED
328.817154	41.2	120	99.9	H	287.0	4.8	46.0	PASSED

Table 57. Emission in restricted bands results. 30 - 1000 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
94 (115)

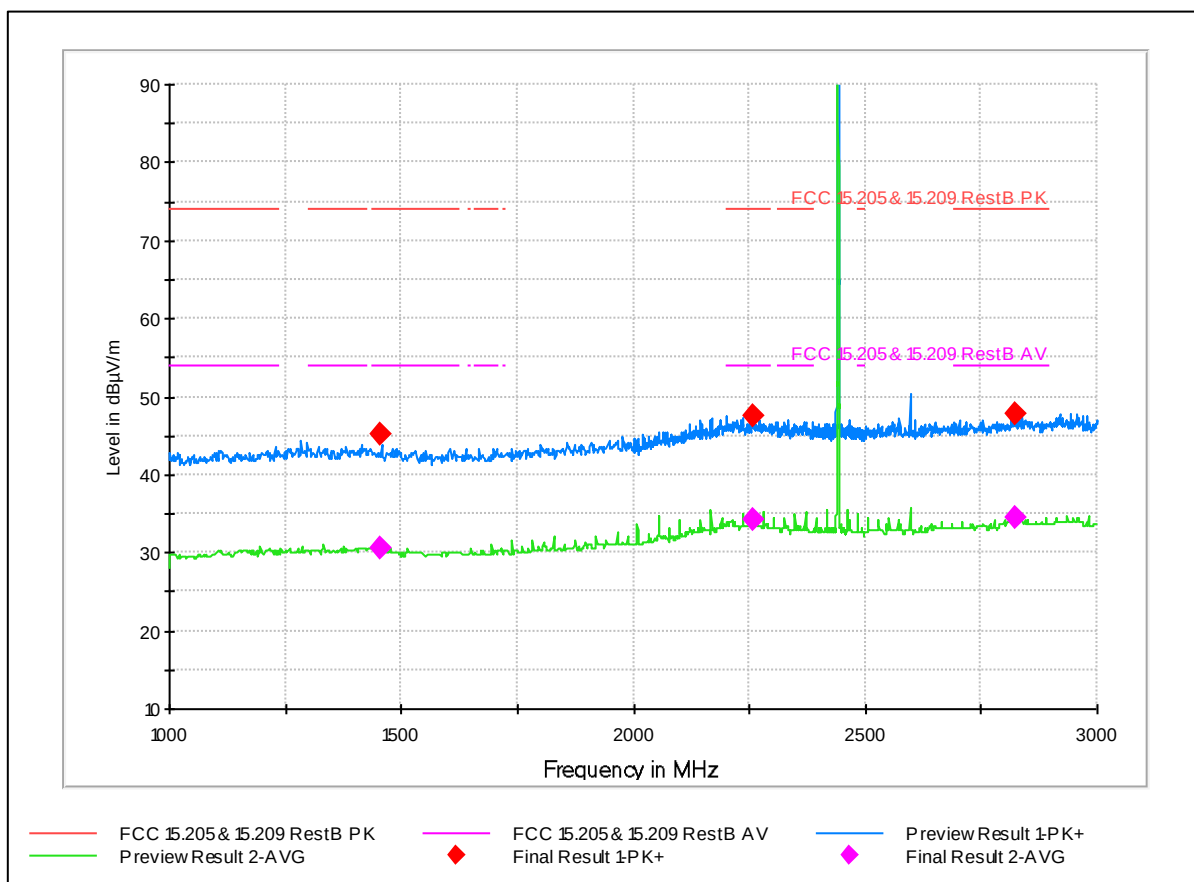


Figure 109. Emission in restricted bands results. 1 - 3 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1456.917836	45.1	1000	190.8	V	80.0	28.9	74.0	PASSED
2258.916233	47.6	1000	207.9	V	140.0	26.4	74.0	PASSED
2823.251303	47.7	1000	363.7	V	24.0	26.3	74.0	PASSED

Table 58. Emission in restricted bands, Peak results. 1 - 3 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1456.917836	30.6	1000	190.8	V	80.0	23.4	54.0	PASSED
2258.916233	34.1	1000	207.9	V	140.0	19.9	54.0	PASSED
2823.251303	34.5	1000	363.7	V	24.0	19.5	54.0	PASSED

Table 59. Emission in restricted bands, Average results. 1 - 3 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
95 (115)

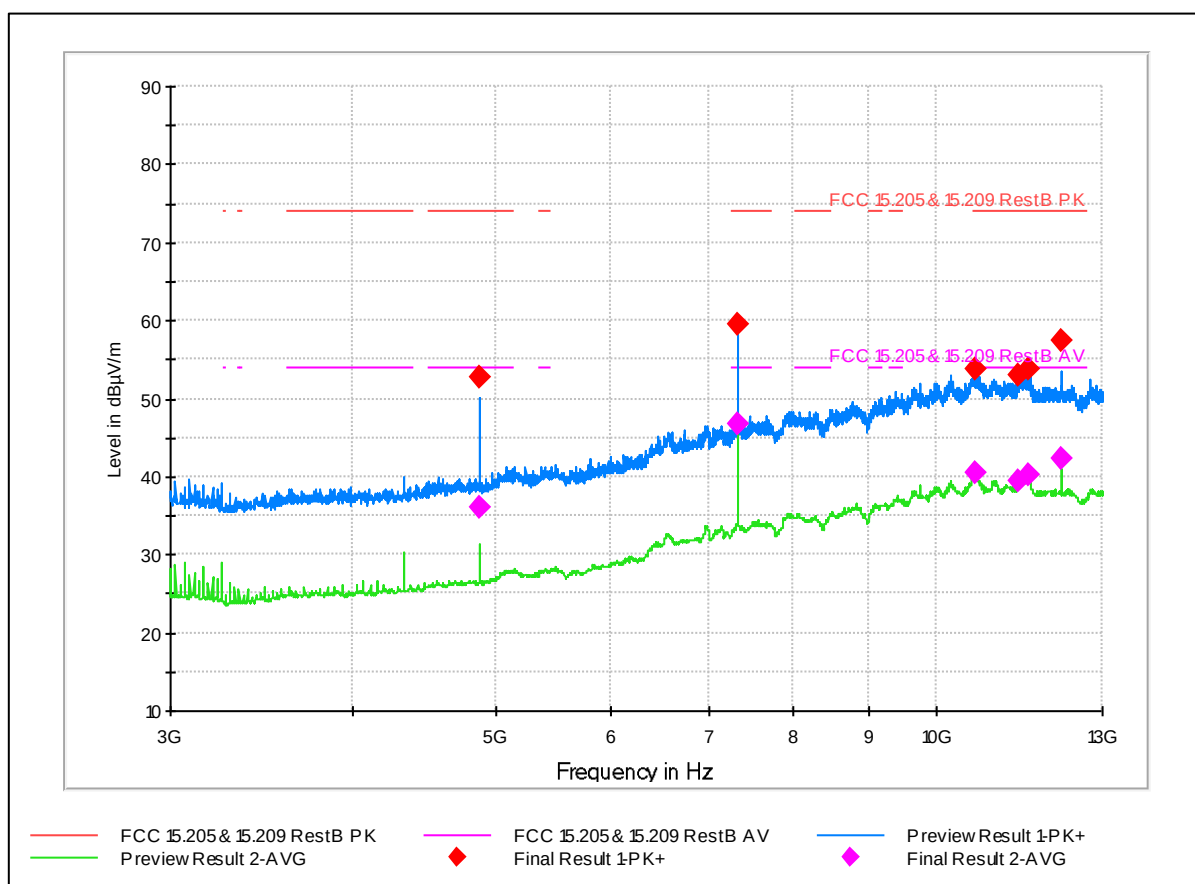


Figure 110. Emission in restricted bands results. 3 - 13 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4881.967535	52.7	1000	169.0	V	61.0	21.3	74.0	PASSED
7322.545291	59.5	1000	150.0	V	36.0	14.5	74.0	PASSED
10634.562525	53.9	1000	293.0	V	186.0	20.1	74.0	PASSED
11394.885571	53.1	1000	316.0	V	27.0	20.9	74.0	PASSED
11575.954309	53.8	1000	150.0	H	199.0	20.2	74.0	PASSED
12204.308818	57.3	1000	269.0	V	42.0	16.7	74.0	PASSED

Table 60. Emission in restricted bands, Peak results. 3 - 13 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4881.967535	36.0	1000	169.0	V	61.0	18.0	54.0	PASSED
7322.545291	46.8	1000	150.0	V	36.0	7.2	54.0	PASSED
10634.562525	40.4	1000	293.0	V	186.0	13.6	54.0	PASSED
11394.885571	39.5	1000	316.0	V	27.0	14.5	54.0	PASSED
11575.954309	40.2	1000	150.0	H	199.0	13.8	54.0	PASSED
12204.308818	42.4	1000	269.0	V	42.0	11.6	54.0	PASSED

Table 61. Emission in restricted bands, Average results. 3 - 13 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
96 (115)

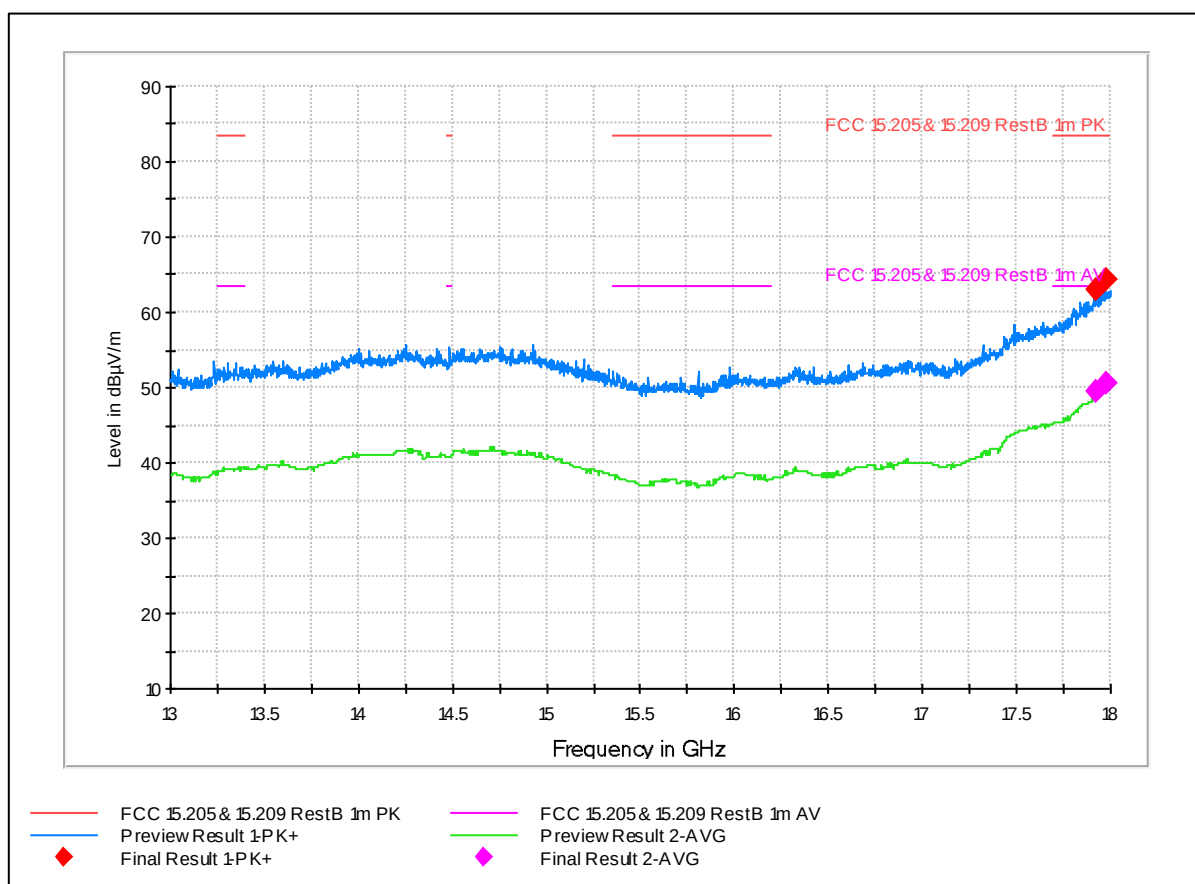


Figure 111. Emission in restricted bands results. 13 - 18 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 1 m factor	Average Limit at 1 m.	Peak limit at 1 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	9.54	63.5	83.5

Table 62. Calculation of limit at 1 m.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17921.247695	63.0	1000	191.0	H	225.0	20.5	83.5	PASSED
17973.039880	64.4	1000	167.0	V	193.0	19.1	83.5	PASSED

Table 63. Emission in restricted bands, Peak results. 13 - 18 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17921.247695	49.5	1000	191.0	H	225.0	14.0	63.5	PASSED
17973.039880	50.5	1000	167.0	V	193.0	13.0	63.5	PASSED

Table 64. Emission in restricted bands, Average results. 13 - 18 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
97 (115)

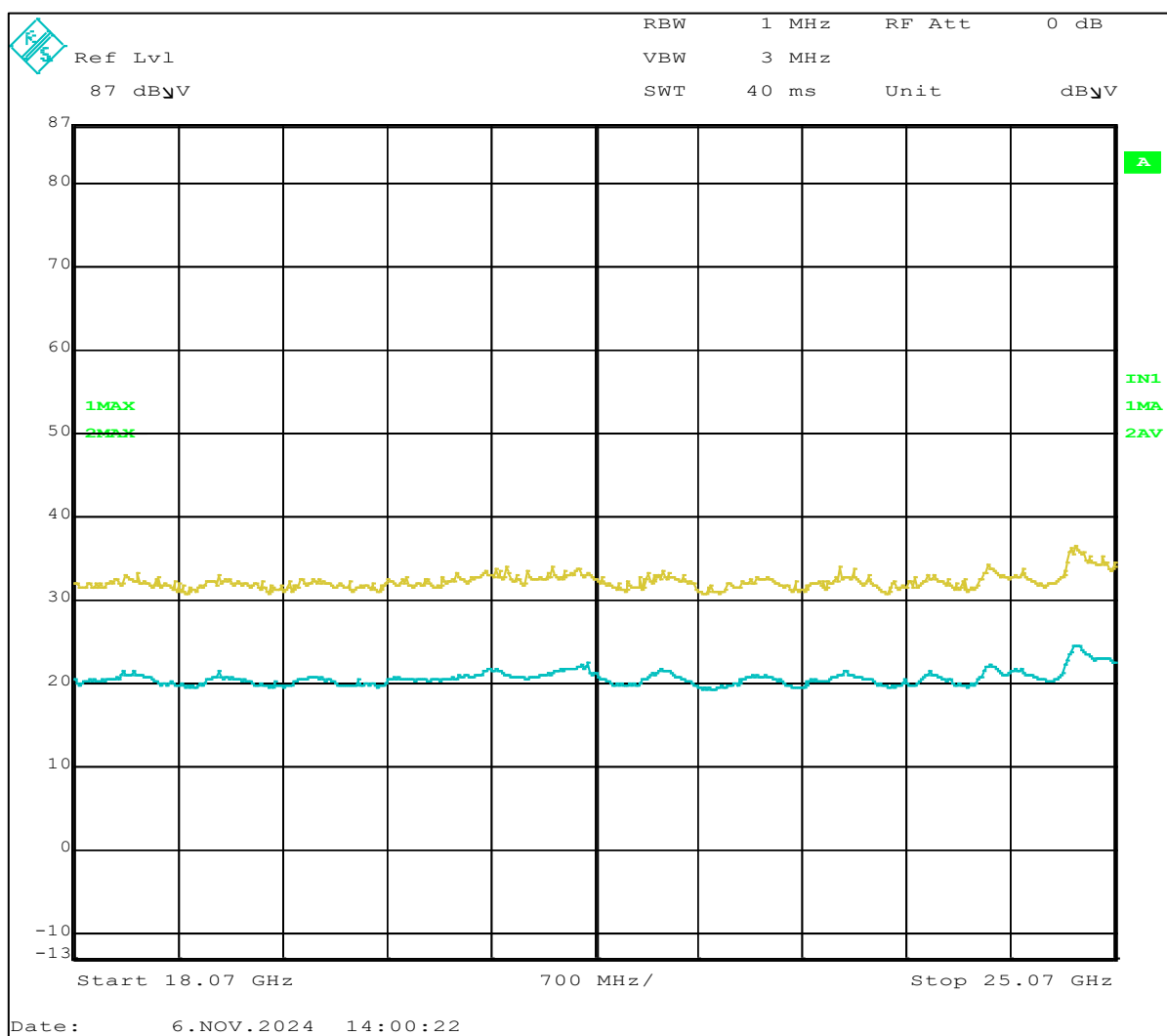


Figure 112. Emission in restricted bands. 18 – 25 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 0.5 m factor	Average Limit at 0.5 m.	Peak limit at 0.5 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	15.56	69.54	89.54

Table 65. Calculation of limit at 0.5 m.

Frequency GHz	AF dB/m	Cable loss dB	Correction factor dB/m
18	40.3	< 2	42.3
25	40.6	< 2	42.6

Table 66. Correction factors 18 – 25 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	89.54	PASSED

Table 67. Radiated emission test results 18 - 25 GHz. Peak detector.

Frequency [MHz]	AVG [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	69.54	PASSED

Table 68. Radiated emission test results 18 – 25 GHz. Average detector.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
98 (115)

2.9.2.5 Test specimen vertical at 2480 MHz

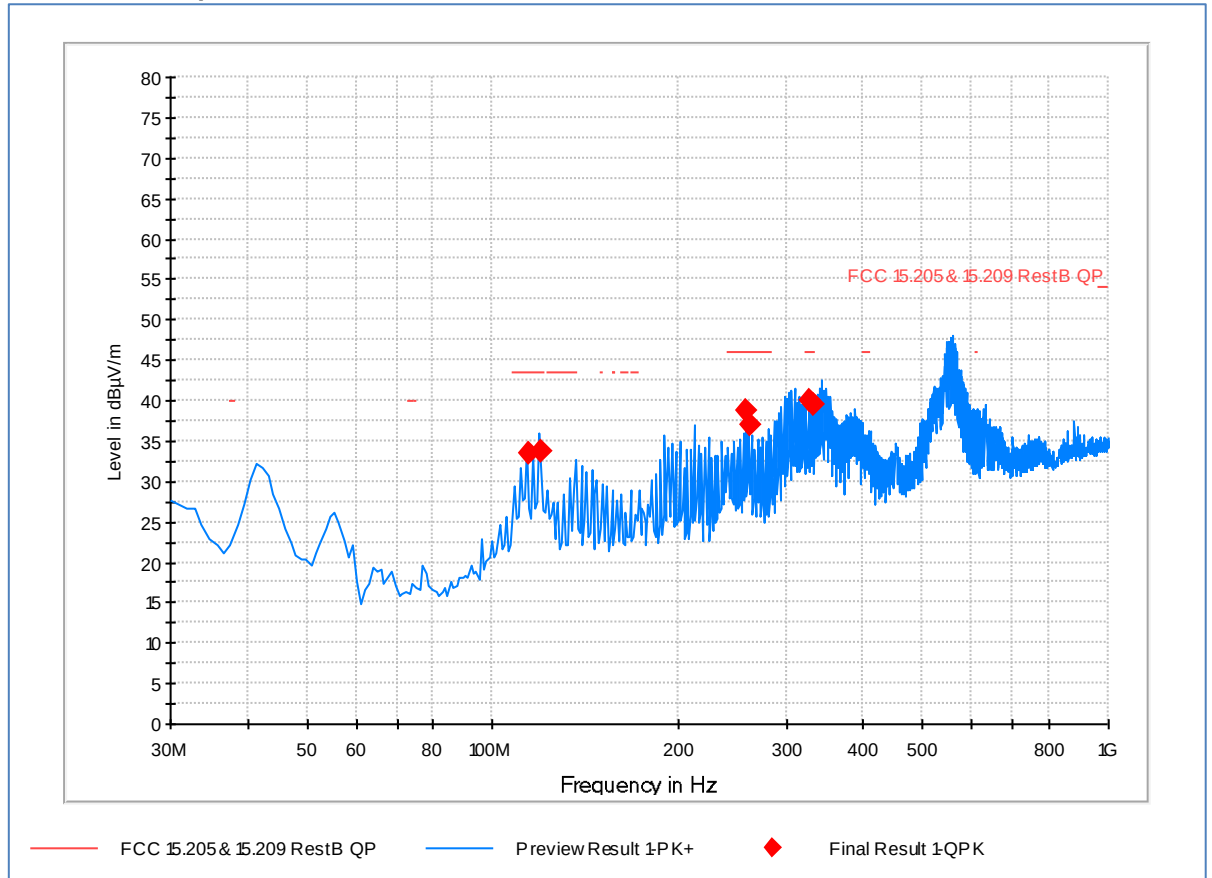


Figure 113. Emission in restricted bands, 30 -1000 MHz.

Frequency [MHz]	QP [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
114.307655	33.5	120	99.7	V	61.0	10.0	43.5	PASSED
119.958958	33.6	120	99.7	V	89.0	9.9	43.5	PASSED
258.255872	38.8	120	99.9	V	195.0	7.2	46.0	PASSED
261.081523	37.0	120	100.2	V	194.0	9.0	46.0	PASSED
325.991503	40.1	120	99.9	H	294.0	5.9	46.0	PASSED
331.642806	39.4	120	100.1	H	97.0	6.6	46.0	PASSED
114.307655	33.5	120	99.7	V	61.0	10.0	43.5	PASSED

Table 69. Emission in restricted bands results. 30 - 1000 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
99 (115)

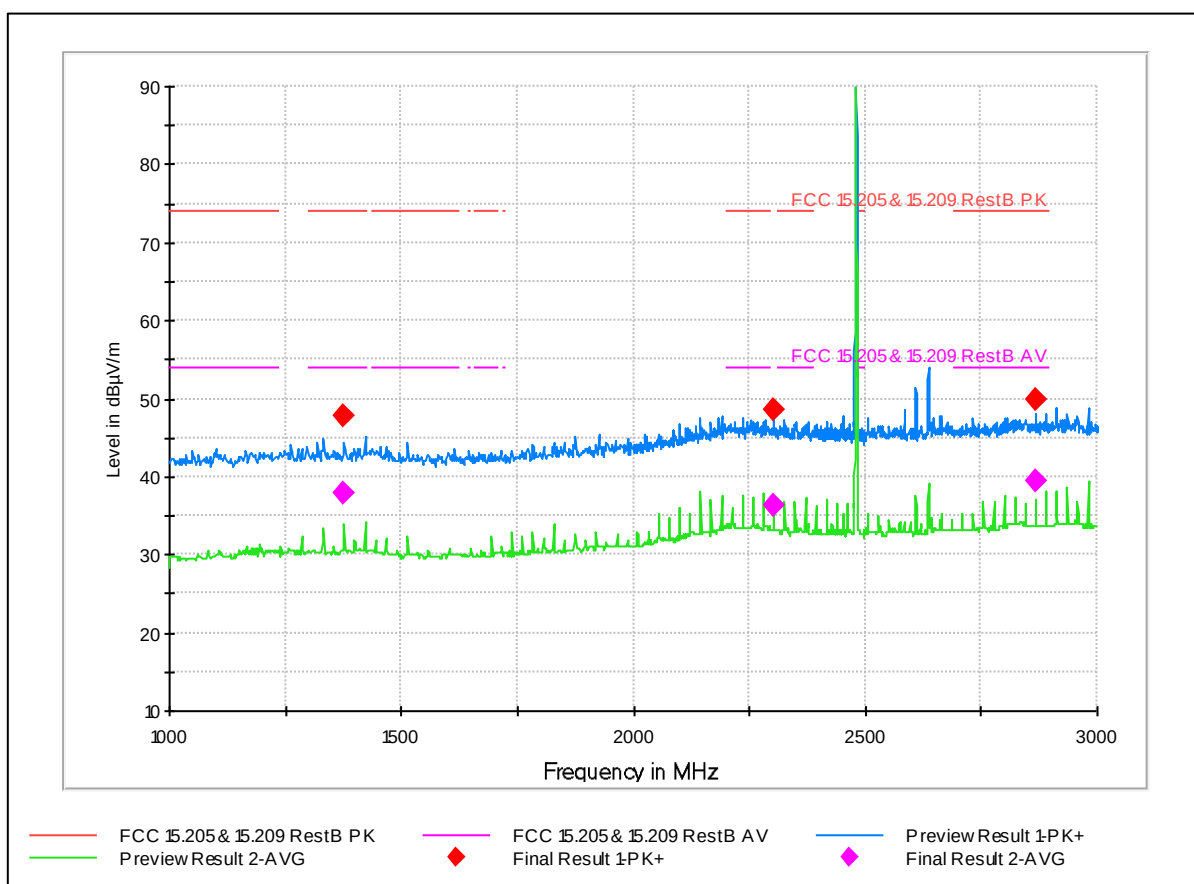


Figure 114. Emission in restricted bands results. 1 - 3 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
1377.253507	47.7	1000	149.9	H	20.0	26.3	74.0	PASSED
2303.007615	48.4	1000	202.2	H	0.0	---	---	---
2867.635471	50.0	1000	149.9	H	8.0	24.0	74.0	PASSED

Table 70. Emission in restricted bands, Peak results. 1 - 3 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
1377.253507	38.0	1000	149.9	H	20.0	16.0	54.0	PASSED
2303.007615	36.4	1000	202.2	H	0.0	---	---	---
2867.635471	39.5	1000	149.9	H	8.0	14.5	54.0	PASSED

Table 71. Emission in restricted bands, Average results. 1 - 3 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
100 (115)

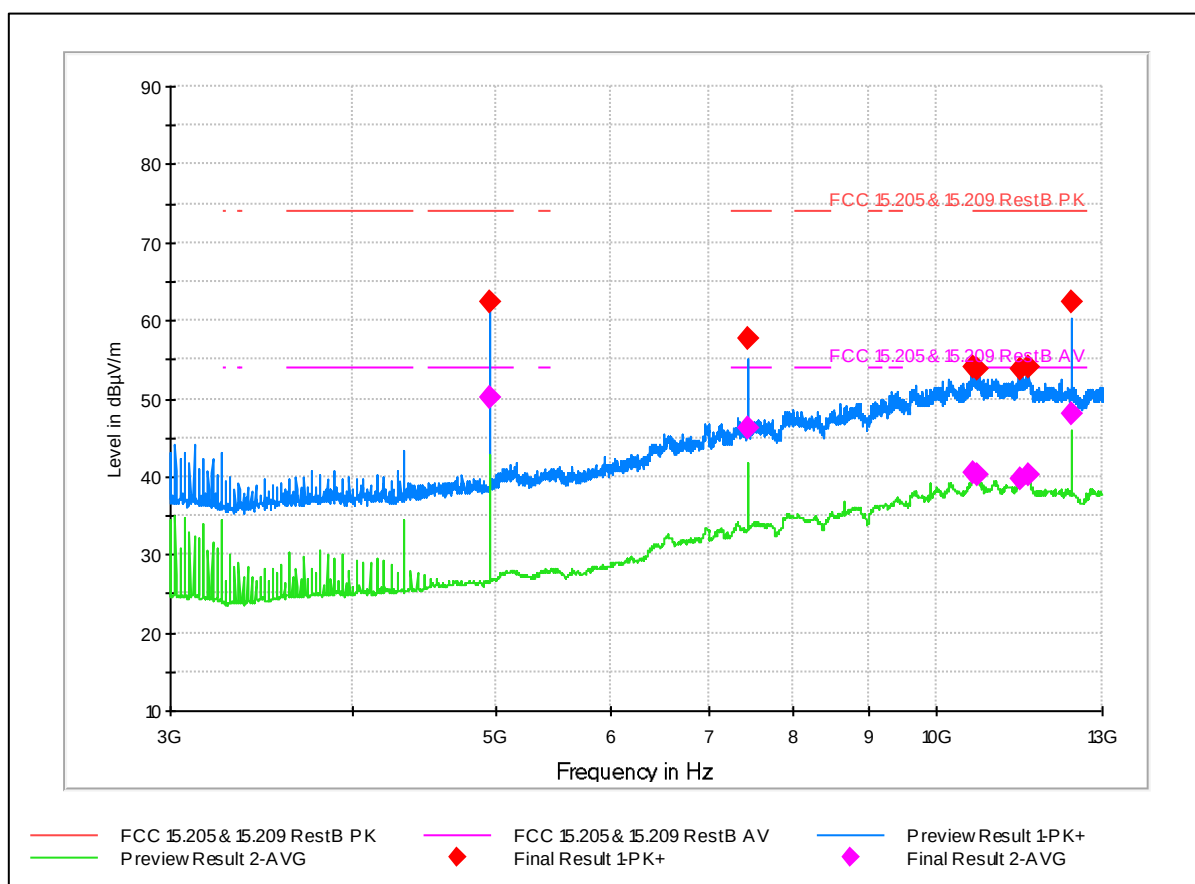


Figure 115. Emission in restricted bands results. 3 - 13 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4960.319840	62.3	1000	150.0	H	332.0	11.7	74.0	PASSED
7439.477756	57.7	1000	222.0	H	334.0	16.3	74.0	PASSED
10606.218437	54.1	1000	316.0	V	130.0	19.9	74.0	PASSED
10663.630661	53.7	1000	246.0	H	261.0	20.3	74.0	PASSED
11426.261724	53.8	1000	400.0	V	210.0	20.2	74.0	PASSED
11563.122245	54.0	1000	246.0	V	12.0	20.0	74.0	PASSED
12399.097595	62.4	1000	150.0	H	335.0	11.6	74.0	PASSED

Table 72. Emission in restricted bands, Peak results. 3 - 13 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4960.319840	50.1	1000	150.0	H	332.0	3.9	54.0	PASSED
7439.477756	46.3	1000	222.0	H	334.0	7.7	54.0	PASSED
10606.218437	40.5	1000	316.0	V	130.0	13.5	54.0	PASSED
10663.630661	40.1	1000	246.0	H	261.0	13.9	54.0	PASSED
11426.261724	39.7	1000	400.0	V	210.0	14.3	54.0	PASSED
11563.122245	40.3	1000	246.0	V	12.0	13.7	54.0	PASSED
12399.097595	48.1	1000	150.0	H	335.0	5.9	54.0	PASSED

Table 73. Emission in restricted bands, Average results. 3 - 13 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
101 (115)

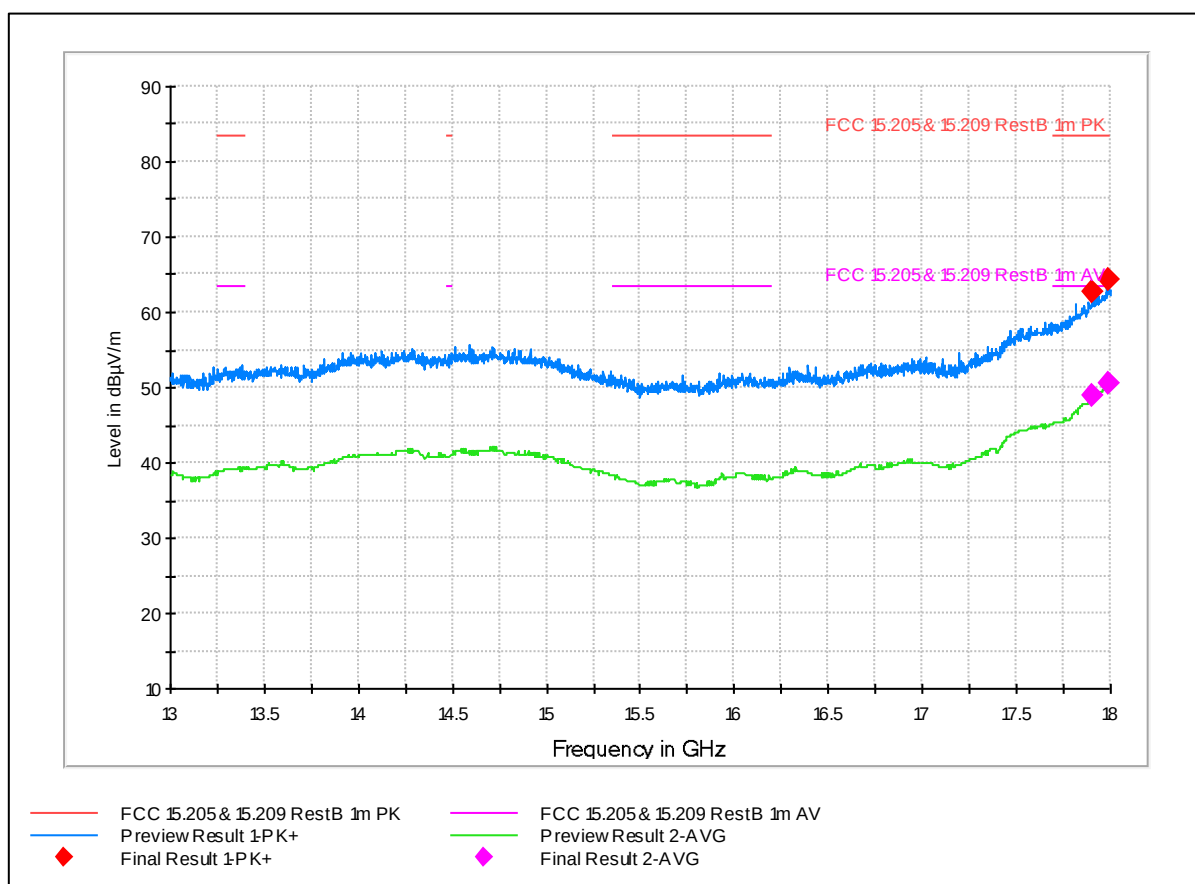


Figure 116. Emission in restricted bands results. 13 - 18 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 1 m factor	Average Limit at 1 m.	Peak limit at 1 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	9.54	63.5	83.5

Table 74. Calculation of limit at 1 m.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17903.611623	62.8	1000.	120.0	H	189.0	20.7	83.5	PASSED
17984.471944	64.4	1000	153.0	V	213.0	19.1	83.5	PASSED

Table 75. Emission in restricted bands Peak results. 13 - 18 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17903.611623	49.0	1000.	120.0	H	189.0	14.5	63.5	PASSED
17984.471944	50.5	1000	153.0	V	213.0	13.0	63.5	PASSED

Table 76. Emission in restricted bands Average results. 13 - 18 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
102 (115)

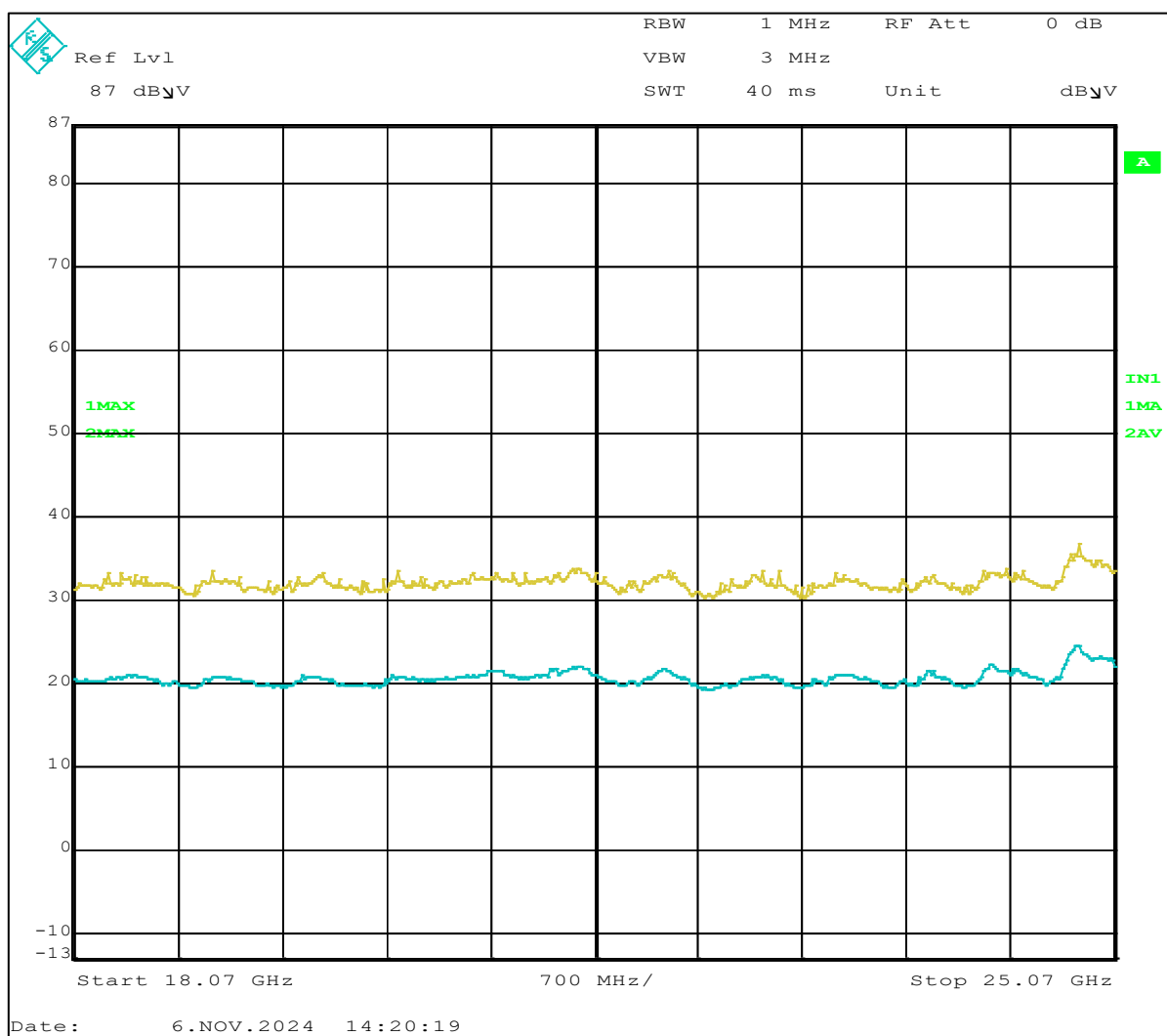


Figure 117. Emission in restricted bands. 18 – 25 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 0.5 m factor	Average Limit at 0.5 m.	Peak limit at 0.5 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	15.56	69.54	89.54

Table 77. Calculation of limit at 0.5 m.

Frequency GHz	AF dB/m	Cable loss dB	Correction factor dB/m
18	40.3	< 2	42.3
25	40.6	< 2	42.6

Table 78. Correction factors 18 – 25 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	89.54	PASSED

Table 79. Radiated emission test results 18 - 25 GHz. Peak detector.

Frequency [MHz]	AVG [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	69.54	PASSED

Table 80. Radiated emission test results 18 – 25 GHz. Average detector.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
103 (115)

2.9.2.6 Test specimen horizontal at 2480 MHz

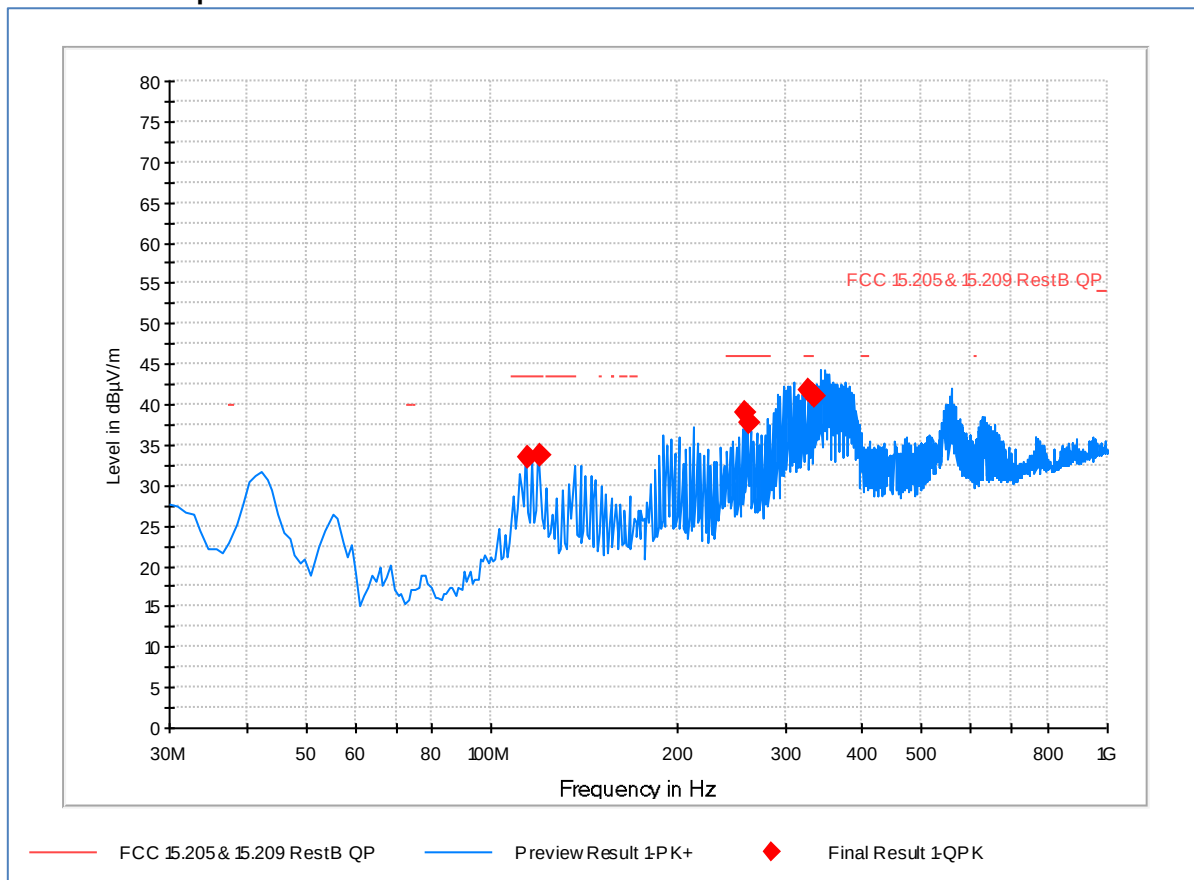


Figure 118. Emission in restricted bands, 30 -1000 MHz.

Frequency [MHz]	QP [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
114.307655	33.4	120	100.0	V	96.0	10.1	43.5	PASSED
119.958958	33.6	120	99.9	V	72.0	9.9	43.5	PASSED
258.255872	39.1	120	100.1	V	191.0	6.9	46.0	PASSED
261.081523	37.7	120	99.9	H	27.0	8.3	46.0	PASSED
325.991503	41.8	120	99.9	H	296.0	4.2	46.0	PASSED
331.642806	41.3	120	100.2	H	96.0	4.7	46.0	PASSED
334.468457	41.1	120	99.9	H	96.0	4.9	46.0	PASSED

Table 81. Emission in restricted bands results. 30 - 1000 MHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
104 (115)

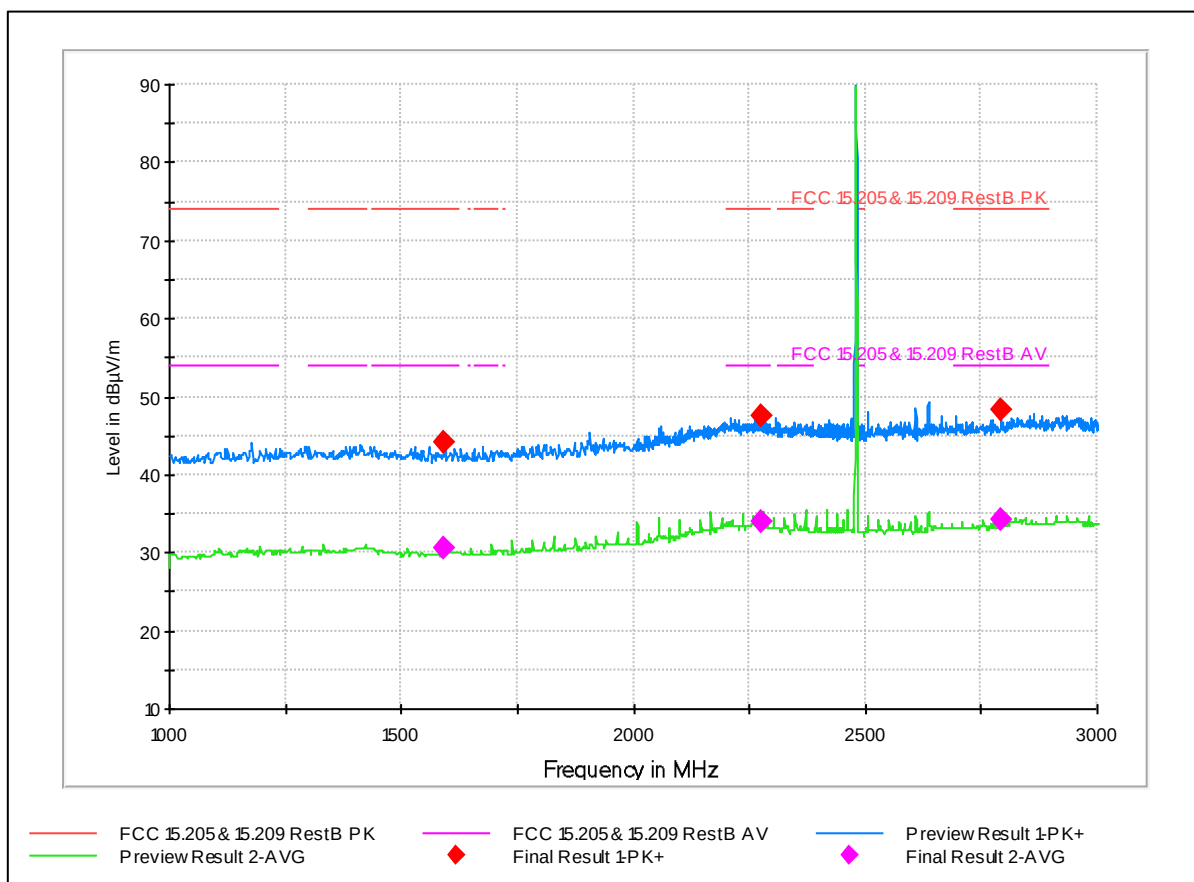


Figure 119. Emission in restricted bands results. 1 - 3 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1593.790381	44.2	1000	400.3	V	180.0	29.8	74.0	PASSED
2275.657916	47.4	1000	176.9	V	34.0	26.6	74.0	PASSED
2793.387174	48.2	1000	400.0	H	154.0	25.8	74.0	PASSED

Table 82. Emission in restricted bands, Peak results. 1 - 3 GHz..

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
1593.790381	30.5	1000	400.3	V	180.0	23.5	54.0	PASSED
2275.657916	33.9	1000	176.9	V	34.0	20.1	54.0	PASSED
2793.387174	34.2	1000	400.0	H	154.0	19.8	54.0	PASSED

Table 83. Emission in restricted bands, Average results. 1 - 3 GHz..

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
105 (115)

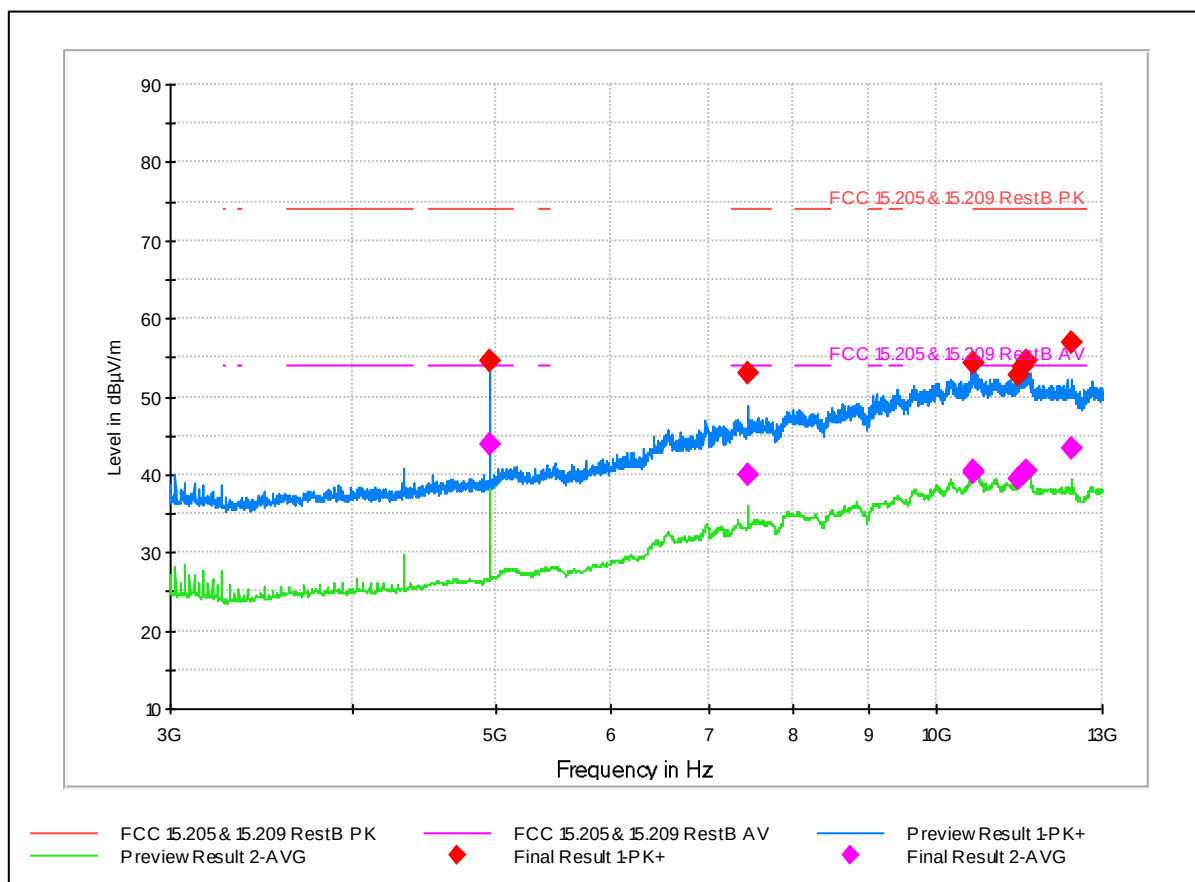


Figure 120. Emission in restricted bands results. 3 - 13 GHz.

Frequency [MHz]	Peak [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4960.319840	54.6	1000	150.0	V	1.0	19.4	74.0	PASSED
7440.377756	53.1	1000	269.0	V	270.0	20.9	74.0	PASSED
10607.806413	54.4	1000	261.0	H	79.0	19.6	74.0	PASSED
10624.258517	54.3	1000	361.0	H	165.0	19.7	74.0	PASSED
11387.481563	52.8	1000	310.0	V	331.0	21.2	74.0	PASSED
11455.205812	53.8	1000	216.0	V	78.0	20.2	74.0	PASSED
11552.610220	54.6	1000	317.0	H	167.0	19.4	74.0	PASSED
12400.801603	56.9	1000	238.0	V	166.0	17.1	74.0	PASSED

Table 84. Emission in restricted bands Peak results. 3 - 13 GHz.

Frequency [MHz]	AVG [dBµV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBµV/m]	Result
4960.319840	43.8	1000.00	150.0	V	1.0	10.2	54.0	PASSED
7440.377756	39.9	1000.00	269.0	V	270.0	14.1	54.0	PASSED
10607.806413	40.5	1000.00	261.0	H	79.0	13.5	54.0	PASSED
10624.258517	40.3	1000.00	361.0	H	165.0	13.7	54.0	PASSED
11387.481563	39.4	1000.00	310.0	V	331.0	14.6	54.0	PASSED
11455.205812	39.8	1000.00	216.0	V	78.0	14.2	54.0	PASSED
11552.610220	40.5	1000.00	317.0	H	167.0	13.5	54.0	PASSED
12400.801603	43.4	1000.00	238.0	V	166.0	10.6	54.0	PASSED

Table 85. Emission in restricted bands Average results. 3 - 13 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
106 (115)

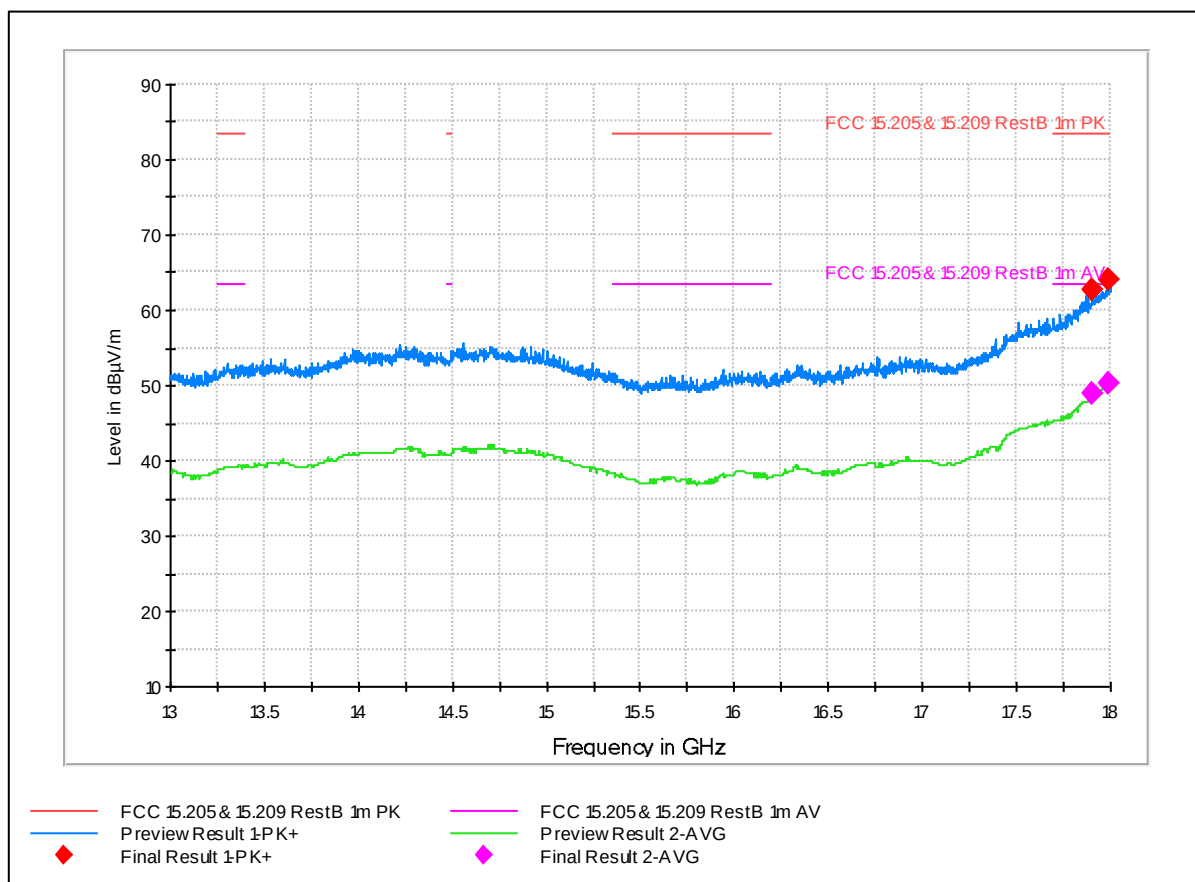


Figure 121. Emission in restricted bands results. 13 - 18 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 1 m factor	Average Limit at 1 m.	Peak limit at 1 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	9.54	63.5	83.5

Table 86. Calculation of limit at 1 m.

Frequency [MHz]	Peak [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17903.399599	62.7	1000	191.0	H	108.0	20.8	83.5	PASSED
17992.787976	64.1	1000	214.0	H	178.0	19.4	83.5	PASSED

Table 87. Emission in restricted bands. Peak results. 13 - 18 GHz.

Frequency [MHz]	AVG [dBμV/m]	BW [MHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
17903.399599	49.0	1000	191.0	H	108.0	14.5	63.5	PASSED
17992.787976	50.4	1000	214.0	H	178.0	13.1	63.5	PASSED

Table 88. Emission in restricted bands. Average results. 13 - 18 GHz.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
107 (115)

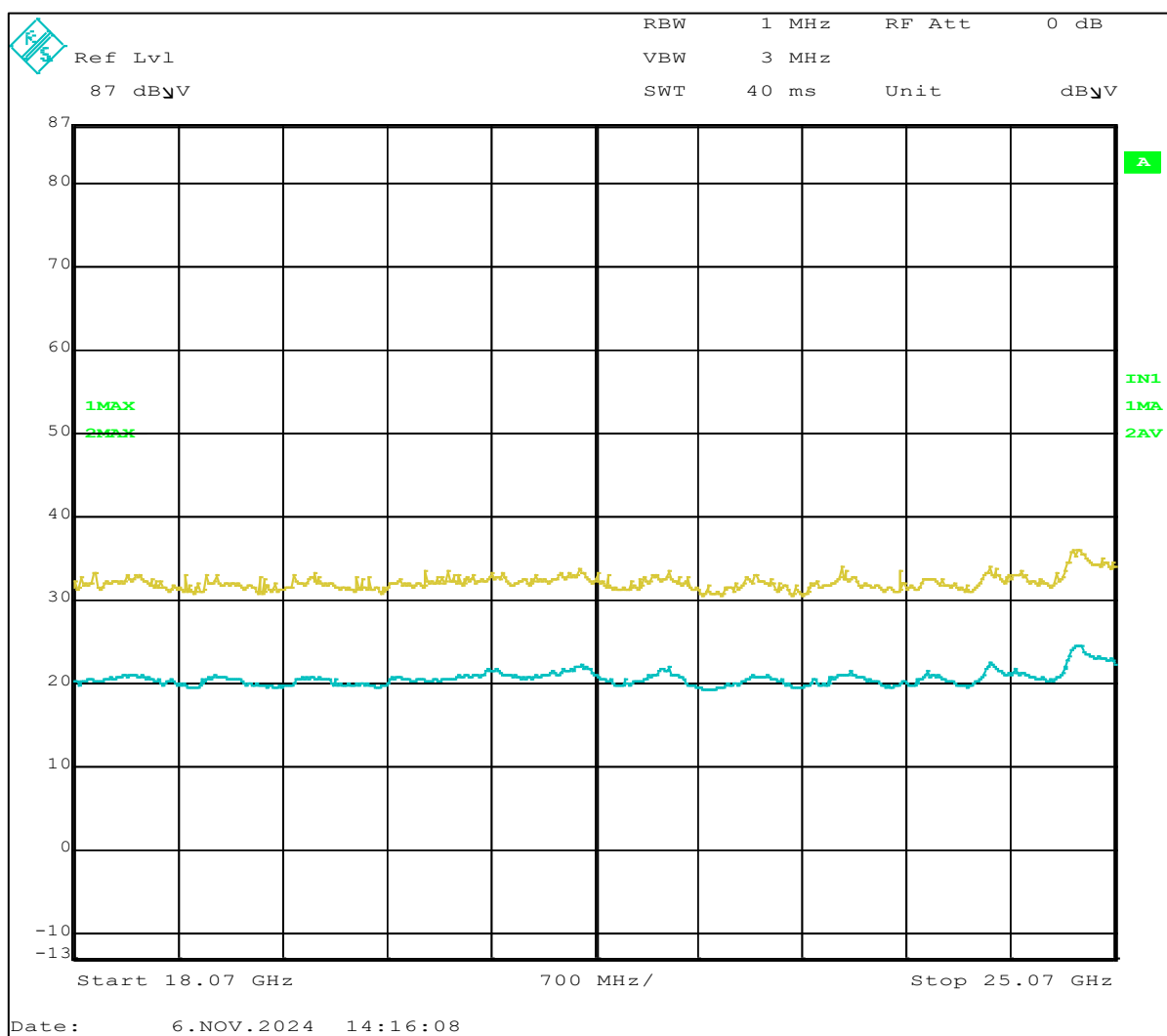


Figure 122. Emission in restricted bands. 18 – 25 GHz.

Average Limit at 3 m.	Peak limit At 3 m	3 m / 0.5 m factor	Average Limit at 0.5 m.	Peak limit at 0.5 m
[dBμV/m]	[dBμV/m]	[dB]	[dBμV/m]	[dBμV/m]
53.98	73.98	15.56	69.54	89.54

Table 89. Calculation of limit at 0.5 m.

Frequency GHz	AF dB/m	Cable loss dB	Correction factor dB/m
18	40.3	< 2	42.3
25	40.7	< 2	42.7

Table 90. Correction factors 18 – 25 GHz.

Frequency [MHz]	Peak [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	89.54	PASSED

Table 91. Radiated emission test results 18 - 25 GHz. Peak detector.

Frequency [MHz]	AVG [dBμV/m]	BW [kHz]	Height [cm]	Pol.	Azimuth [deg]	Margin [dB]	Limit [dBμV/m]	Result
-	-	1000	-	-	-	-	69.54	PASSED

Table 92. Radiated emission test results 18 – 25 GHz. Average detector.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
108 (115)

2.9.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due
Antenna Bilog 30MHz - 2GHz	Chase	CBL6112B	30114397	2025-12-15
LNA amplifier 1 - 26 GHz	Miteq	JS4-01002600-36-5P	30150081	2024-11-14
Antenna Horn 1 – 18 GHz	Schwarzbeck	BBHA 1920D	30120777	2025-03-21
Standard Gain Horn 18 – 26.5 GHz	Narda	638	30117524	-
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 93. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
109 (115)

2.10 AC power-line conducted emission

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.207 (a) RSS Gen 8.8
Test method	ANSI C63.10:2013 sec 6.2
Frequency range	150kHz - 30 MHz
Limits	FCC 47 CFR Part 15.207 (a) RSS Gen 8.8
Comments	-
Temperature / Humidity	23°C / 35%RH
Dates of measurements	2024-12-10
Test personnel	Søren Søltøft

2.10.1 Test setup

During the tests the right and the left radio were set to radiate at the same frequency with modulation simultaneously. The two radios were terminated with the typical impedance of 50 ohm at the temporary antenna connectors.

The test specimen has two possibility of supply. One via USB-C connector and one from a AC / DC adapter.

The USB-C supply was measured at the AC / DC adaptor of a laptop connected to test specimen. The AC / DC adaptor supply was measured at the AC part of the AC / DC adaptor while the USB-C was connected to the laptop, which was running on battery.

See photo of test set up in appendix 1.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
110 (115)

2.10.2 Test results

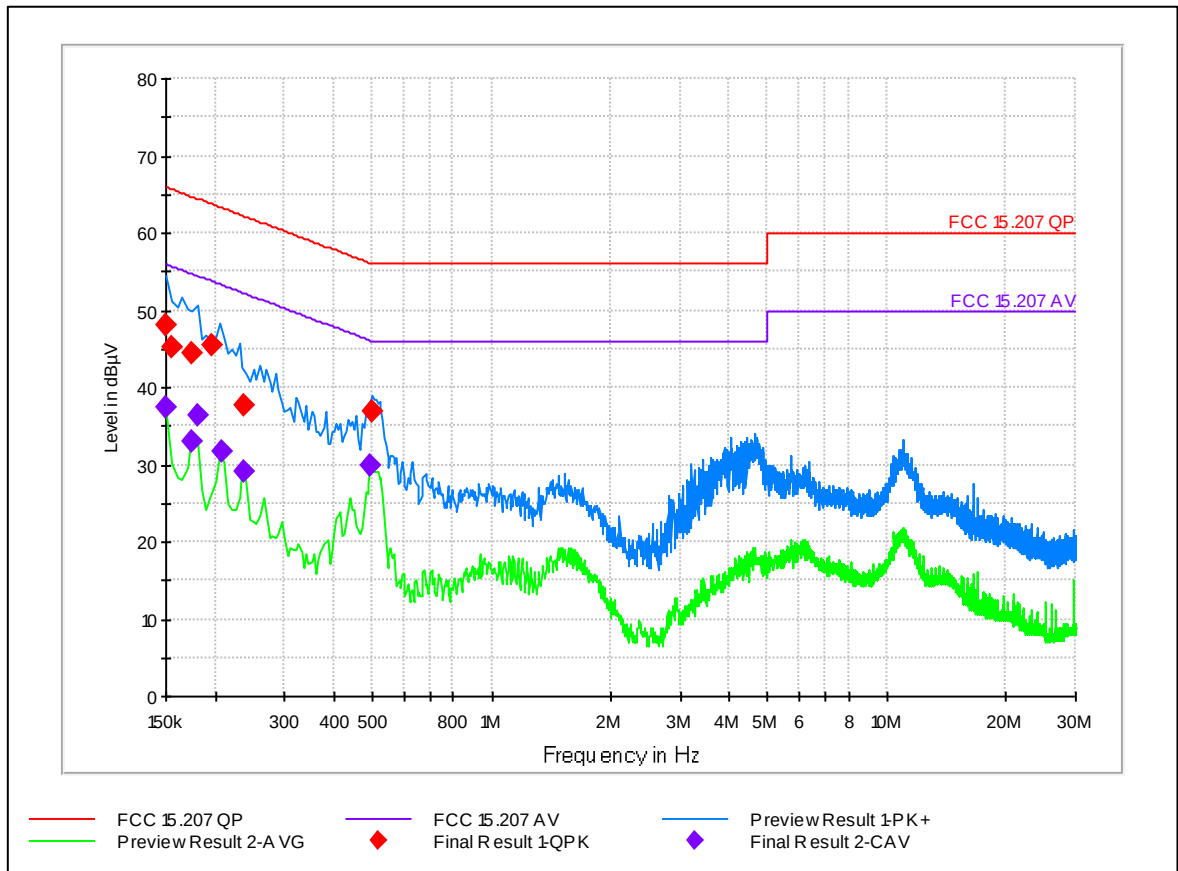


Figure 123. AC power-line conducted emission, USB-C supply.

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)	Result
0.150600	48.1	9.000	L1	17.90	66.00	PASSED
0.155000	45.3	9.000	L1	20.40	65.70	PASSED
0.175200	44.4	9.000	L1	20.30	64.70	PASSED
0.196300	45.5	9.000	N	18.20	63.80	PASSED
0.236500	37.6	9.000	L1	24.60	62.20	PASSED
0.500900	36.8	9.000	L1	19.20	56.00	PASSED

Table 94. AC power-line conducted emission, USB-C connection. QP test result.

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBμV)	Result
0.150100	37.3	9.000	N	18.70	56.00	PASSED
0.174900	32.9	9.000	N	21.80	54.70	PASSED
0.181500	36.4	9.000	N	18.10	54.40	PASSED
0.207900	31.6	9.000	N	21.70	53.30	PASSED
0.237200	29.1	9.000	N	23.10	52.20	PASSED
0.494400	29.8	9.000	L1	16.30	46.10	PASSED

Table 95. AC power-line conducted emission, USB-C connection. AVG test result.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
111 (115)

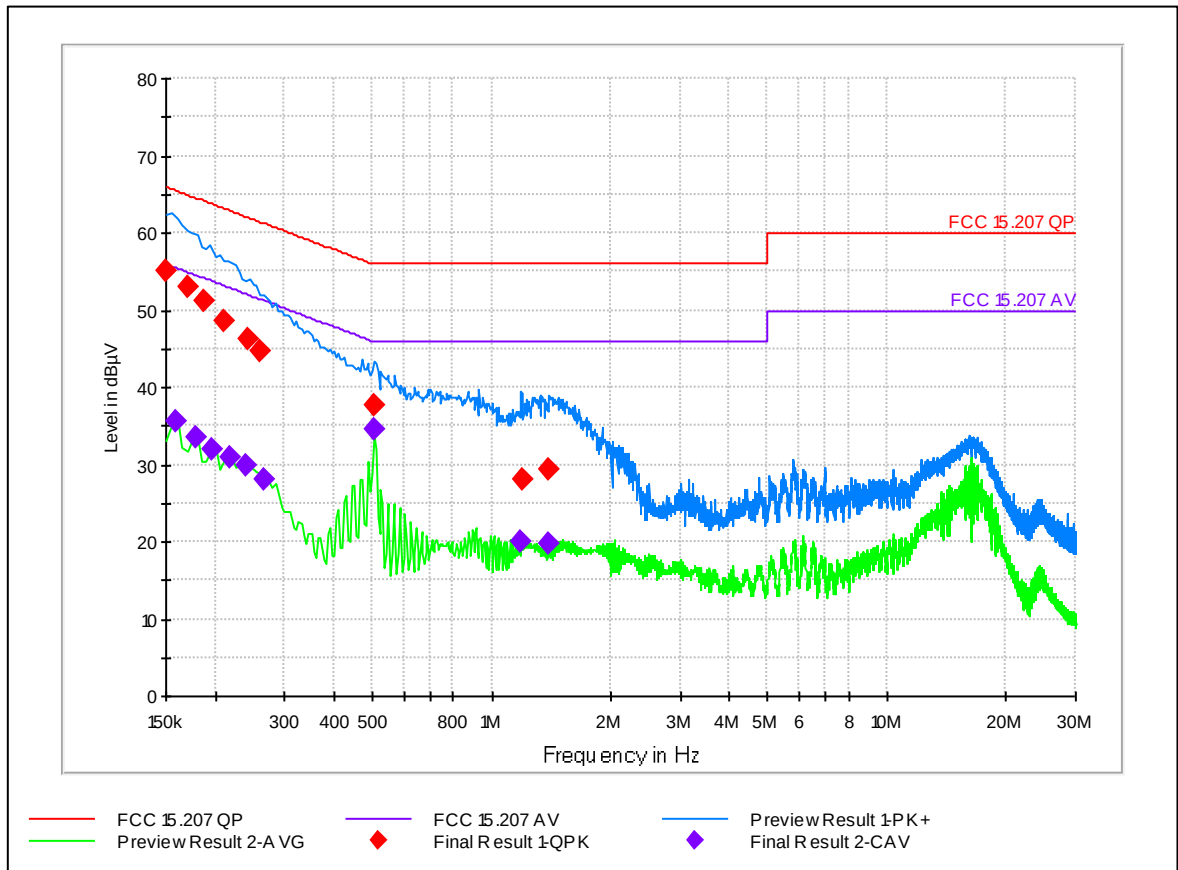


Figure 124. AC power-line conducted emission, AC / DC adaptor supply.

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBµV)	Result
0.150600	55.0	9.000	N	10.90	66.00	PASSED
0.170500	52.9	9.000	N	12.00	64.90	PASSED
0.186500	51.2	9.000	N	13.00	64.20	PASSED
0.210500	48.7	9.000	N	14.50	63.20	PASSED
0.242000	46.2	9.000	N	15.80	62.00	PASSED
0.260500	44.8	9.000	N	16.60	61.40	PASSED
0.502900	37.6	9.000	N	18.40	56.00	PASSED
1.192100	28.1	9.000	N	27.90	56.00	PASSED
1.393500	29.2	9.000	N	26.80	56.00	PASSED

Table 96. AC power-line conducted emission, AC / DC adaptor supply. QP test result.

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Line	Margin (dB)	Limit (dBµV)	Result
0.158200	35.6	9.000	N	19.90	55.60	PASSED
0.178400	33.5	9.000	N	21.00	54.60	PASSED
0.197300	31.9	9.000	N	21.80	53.70	PASSED
0.218100	30.9	9.000	N	22.00	52.90	PASSED
0.238000	29.8	9.000	N	22.40	52.20	PASSED
0.266000	28.1	9.000	N	23.20	51.20	PASSED
0.505400	34.5	9.000	N	11.50	46.00	PASSED
1.187900	20.1	9.000	L1	25.90	46.00	PASSED
1.394900	19.6	9.000	L1	26.40	46.00	PASSED

Table 97. AC power-line conducted emission, AC / DC adaptor supply. AVG test result.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
112 (115)

2.10.3 Test equipment

Description	Supplier	Model	Tag no.	Cal. due date
V-network Two Line	Rohde & Schwarz	ESH3-Z5	30120682	2025-02-05
EMI Test Receiver 20Hz-26.5GHz	Rohde & Schwarz	ESIB26	30118880	2025-01-25

Table 98. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
113 (115)

2.11 Frequency stability versus supply voltage and temperature variation

Test specimen	2000-1 Fitting Unit
Test specification	47 CFR 15.31 (e) RSS Gen 6.11
Test method	ANSI C63.10:2013 sec. 6.8
Comments	-
Temperature / Humidity	23°C / 32%RH
Dates of measurements	2025-03-14
Test personnel	Søren Søltøft

2.11.1 Test setup

The normal supply voltage is 5 VDC supplied from controlling laptop and 15 VDC supplied from dedicated AC/DC adaptor. The test was performed at 85% and 115% of the rated voltage on the dedicated AC/DC adaptor and of the AC/DC adaptor for the laptop.

The USB cable between test specimen and laptop was spliced to allow the use of an external DC supply for variation of 5 VDC supply via USB. The voltage was varied $\pm 5\%$ according to USB specification.

The test specimen specification states that the temperature range for using wireless applied parts is +5°C to +36°C. Thus only range was monitored.

The test specimen with temporary antenna connectors was placed in a climate chamber. Cables were connected to both antenna connectors and fed to the spectrum analyzer. The radio programmer was placed in chamber and connected to a laptop outside.

The radios set to transmit an unmodulated carrier at 2441 MHz.

The test specimen were powered off during temperature stabilizing time.

See appendix 1 for photo of test setup.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
114 (115)

2.11.2 Test result

Temperature [°C]	Measured frequency		Deviation from 20°C	
	Right radio [MHz]	Left Radio [MHz]	Right radio [kHz]	Left Radio [kHz]
36	2440.994320	2440.994320	0.778	0.775
5	2440.991549	2440.991554	-1.993	-1.991
20	2440.993542	2440.993545	-	-

Table 99. Frequency deviation as function of temperature.

Mains [VAC]	USB [VDC]	Measured frequency		Deviation from normal	
		Right radio [MHz]	Left Radio [MHz]	Right radio [kHz]	Left Radio [kHz]
120	5	2440.993542	2440.993545	-	-
0	4.75	2440.993542	2440.993545	0.000	0.000
0	5.25	2440.993533	2440.993535	0.009	0.010
85	5	2440.993562	2440.993557	-0.020	-0.012
276	5	2440.993563	2440.993559	-0.021	-0.014

Table 100. Frequency deviation as function of voltage variations.

The worst case deviation from normal frequency were added and subtracted to the frequency margin found in test 2.5 Occupied bandwidth.

Radio	Frequency MHz	Band edge MHz	OBW margin MHz	Worst case deviation kHz	Margin MHz	Result
Right	2402	2400	1.573146	1.993	1.571153	PASSED
Right	2480	2483.5	3.079158	0.778	3.079936	PASSED
Left	2402	2400	1.576152	1.993	1.574159	PASSED
Left	2480	2483.5	3.079158	0.778	3.079936	PASSED

Table 101. Band edge

2.11.3 Test equipment

Description	Supplier	Model	Tag no.	Cal date	Cal. due date
Multi Meter	Agilent	34401A	30114118	2025-01-09	2026-01-09
Analyzer 20Hz-26.5GHz	Rohde & Schwarz	FSV 13	30150092	2024-11-18	2025-11-18
Temperature & Humidity Chamber	ESPEC	ARL-1100-AE	30091345	2021-09-22	2026-09-22

Table 102. Radiated emission test equipment.

FCC ID: 2BK6Q-PN00887
ISED ID: 33071-PN00887

Date
2025-03-20

Reference
P24-0097-2

Page
115 (115)

3 MEASURING UNCERTAINTIES

Compliance evaluation is based on a shared risk principle with respect to the measurement uncertainty.

	Frequency [MHz]	Polarization	Expanded Uncertainty [dB] (k=2)
Radiated emission	30 - 200	Vertical	4.73 dB
	200 - 1000	Vertical	4.97 dB
	30 - 200	Horizontal	4.72 dB
	200 - 1000	Horizontal	5.08 dB
	1000 - 18000	Vertical	3.76 dB
	1000 - 18000	Horizontal	3.77 dB
	18000 - 26500	Vertical	4.10 dB
	18000 - 26500	Horizontal	4.11 dB
Conducted emission (CISPR 16-4)	0.009 - 30	-	3.44 dB
Conducted emission (ESIB 26)	<1 GHz	-	2.58 dB
	1-7 GHz	-	2.76 dB
	7 - 18 GHz	-	3.38 dB
	18-26,5 GHz	-	3.79 dB
Frequency error ESIB	2480	-	0.102 ppm