

Test Report

Product	Dosage Manager
Name and address of the applicant	OnDosis AB Gemenskapens gata 9 Mölndal, 431 53, Sweden
Name and address of the manufacturer	OnDosis AB Gemenskapens gata 9 Mölndal, 431 53, Sweden
Model	CU01
Rating	3.7V _{DC} (Nominal Voltage)
Trademark	
Additional information	Bluetooth LE
Tested according to	FCC Part 15.247 Frequency Hopping Transmitters / Digital Transmission Systems ISED Canada RSS-247, Issue 4 Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz and 5470-5875 MHz bands
Order number	PRJ0105781
Tested in period	2026-08-19 to 2026-08-28
Issue date	2026-10-19
Name and address of the testing laboratory	 Nemko Scandinavia AS Instituttveien 6 2007 Kjeller, Norway www.nemko.com CAB Number: FCC: NO0001 ISED: NO0470 ISED No: 2040D-1   An accredited technical test executed under the Norwegian accreditation scheme
 Digitally signed by Frode Sveinsen DN: C=NO, OU=ETM, CN=Frode Sveinsen, O=Nemko Scandinavia AS, E=frode.sveinsen@nemko.com Location: Kjeller Date: 2026.10.19 16:26:31 +02'00'  Jan G Eriksen C=NO, CN=Jan G Eriksen, OU=Senior Engineer, O=Nemko Scandinavia AS, E=jangunnar.eriksen@nemko.com Nemko ETM, Kjeller 2026.10.21 10:25:16 +02'00' Prepared by [Frode Sveinsen] Approved by [Jan G. Eriksen]	
This report was originally distributed electronically with digital signatures. For more information, please contact Nemko Scandinavia AS.	

Revision history

Revision	Date	Comment	Sign
A	2026-09-07	First edition	FS
B	2026-09-23	Corrected FCC and ISED ID	FS
C	2026-10-19	Corrected Output Power value	FS

GENERAL REMARKS

This report applies only to the samples tested. It is the manufacturer's responsibility to ensure the additional production units of this product are manufactured with identical electrical and mechanical components. The manufacturer is solely responsible for any modifications to the product that could result in non-compliance with the relevant regulations.

This report shall not be reproduced, except in full, without the written approval of Nemko.

Any use which a third party makes of this report or any decisions made based on it, is the responsibility of such third parties. Nemko Group accepts no responsibility for damage suffered by any third party because of decisions made or actions based on this report.

Opinions expressed within this report regarding general assessments and qualifications for PASS or FAIL to the standards limits and requirements are not part of the current accreditation. Neither are opinions expressed regarding model variants covered by the testing of this report.

CALIBRATION

All instruments used in the tests given in this test report are calibrated and traceable to national or international standards. Between calibrations all test set-ups are controlled and verified on a regular basis by periodic checks to ensure, with 95% confidence, that the instruments remain within the calibrated levels.

MEASUREMENT UNCERTAINTY

Measurement uncertainties are calculated or considered for all instruments and instrument set-ups used during these tests. Uncertainty figures are found in a separate clause in this report.

CONTENTS

1	INFORMATION	4
1.1	Test Item	4
1.2	Normal test conditions	4
1.3	Test Engineers	5
1.4	Antenna Requirement.....	5
1.5	EUT Operating Modes.....	5
1.6	Comments.....	5
2	TEST REPORT SUMMARY	6
2.1	General	6
2.2	Test Summary	6
3	TEST RESULTS.....	7
3.1	Power Line Conducted Emissions	7
3.2	Occupied Bandwidth (99% BW).....	8
3.3	DTS Bandwidth	10
3.4	Peak Power Output	12
3.5	Conducted Emissions at Antenna Connector.....	15
3.6	Restricted Bands of operation.....	19
3.7	Radiated Emissions, Band Edge.....	20
3.8	Radiated Emissions, 30 – 1000 MHz	23
3.9	Radiated Emissions, 1 – 26 GHz	25
3.10	Power Spectral Density (PSD).....	31
4	Measurement Uncertainty.....	33
5	LIST OF TEST EQUIPMENT.....	34
6	BLOCK DIAGRAMS	35
6.1	Power Line Conducted Emission	35
6.2	Conducted Tests	35
6.3	Test Site Radiated Emission.....	36

1 INFORMATION

1.1 Test Item

Product	Dosage Manager
Manufacturer	OnDosis AB
Model	CU01
FCC ID	2A663-CU01A
ISED ID	28707-CU01A
Serial number	Radiated Sample: CU0100001AO-0000002E Conducted Sample: CU0100001AO-0000002D
Hardware version	V12
Software version	3.12.1.4
Frequency Range	2402 – 2480 MHz
Number of Channels	40
Operating Modes	Bluetooth Low Energy ☒ 1Mb ☒ 2Mb
Type of Modulation	GFSK
Conducted Output Power	0.83 mW
Antenna Connector	None
Number of Antennas	1
Diversity or Smart Antennas	No
Power Supply	Secondary Battery (Li-Po, 3.7V DC)
Charging	Charging from a standard 5 Volt USB-C port

Description of Test Item

The EUT is a Dosage Manager for medicines.

The EUT uses Bluetooth Low Energy and supports 1 Mb and 2Mb modes.

1.2 Normal test conditions

Temperature	20 - 24 °C
Relative humidity	20 - 50 %
Normal test voltage	3.7 V DC

The values are the limit registered during the test period.

1.3 Test Engineers

Frode Sveinsen

1.4 Antenna Requirement

Does the EUT have detachable antennas?	☐ YES	☒ NO
If detachable, is the antenna connectors non-standard?	☐ YES	☐ NO
The tested equipment has only integral antenna. Conducted tests were performed with a temporary antenna connector.		

Requirement: FCC 15.203, 15.204

1.5 EUT Operating Modes

Description of operating modes	The Radiated sample was programmed with test commands from a USB-Serial interface. The Conducted Sample was testes in BLE Direct Testmode with the EUT connected to the R&S CMW500.
Additional information	For all radiated tests the selected output power was pos4dBm. With the conducted tests sample, it was not possible to control the power level. All conducted tests were performed with the pre-programmed power level.

1.6 Comments

All measurements were done with the EUT powered by a fully charged battery.

2 TEST REPORT SUMMARY

2.1 General

The tests were conducted on a sample of the equipment for demonstrating compliance with one or more of the following standards.

Standard	Description
FCC CFR 47 Part 15.247	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz
ISED RSS-247, Issue 4	Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz and 5470-5875 MHz bands
ISED RSS-GEN, Issue 6	General Requirements for Compliance of Radio Apparatus

The following standards and documents were used for one or more measurements:

Standard	Description
ANSI C63.4-2014	Unintentional Radiators
ANSI C63.10-2020 (FCC) +cor.1-2023	Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.10-2020 (ISED Canada) +cor.1-2023 +ANSI C63.10a-2024 +Errata to C63.10a-2024	Procedures for Compliance Testing of Unlicensed Wireless Devices +Corrigendum 1 +Amendment 1 +Errata to Amendment 1
FCC KDB 558074 D01	15.247 Measurement Guidance for DTS and Frequency Hopping Systems

All measurements are traceable to national standards.

A description of the test facility is on file with FCC and ISED Canada.

☒ New Submission	☒ Production Unit
☐ Class II Permissive Change	☐ Pre-production Unit
DTS Equipment Class	☐ Family Listing

2.2 Test Summary

Name of test	FCC Part 15 reference	RSS-247 Issue 4, RSS-GEN Issue 6 reference	ANSI C63.10-2020 Reference	Result
Supply Voltage Variations	15.31(e)	4.4 (RSS-GEN)	5.13	N/A
Antenna Requirement	15.203	5.2 (RSS-GEN)	5.8	Complies
Power Line Conducted Emission	15.107(a) 15.207(a)	7.4.2 (RSS-GEN)	6.2	Complies
Occupied Bandwidth (99% BW)	N/A	5.1 (RSS-GEN)	6.9.3	Complies
DTS Bandwidth	15.247(a)(2)	6.3 (RSS-247)	11.8 Option 2	Complies
Peak Power Output	15.247(b)	6.3.2 (RSS-247)	11.9.1.1	Complies
Power Spectral Density	15.247(d)	6.3.1 (RSS-247)	11.10.2 PKPSD (DTS)	Complies
Spurious Emissions (Antenna Conducted)	15.247(c)	6.6 (RSS-247)	6.7 11.11 (DTS)	Complies
Spurious Emissions (Radiated)	15.247(c) 15.109(a) 15.209(a)	4.9 / 5.5 (RSS-GEN) 7.4.3 / 7.5 (RSS-GEN)	6.3, 6.5, 6.6, 6.10 11.12, 11.13 (DTS)	Complies

3 TEST RESULTS

3.1 Power Line Conducted Emissions

FCC Part 15.207

ISED RSS-GEN Issue 6, Clause 7.4.2

Measurement procedure: ANSI C63.4-2014 using 50 μ H/50 ohms LISN

Test Results: **Complies**

Measurement Data: **See attached plots**

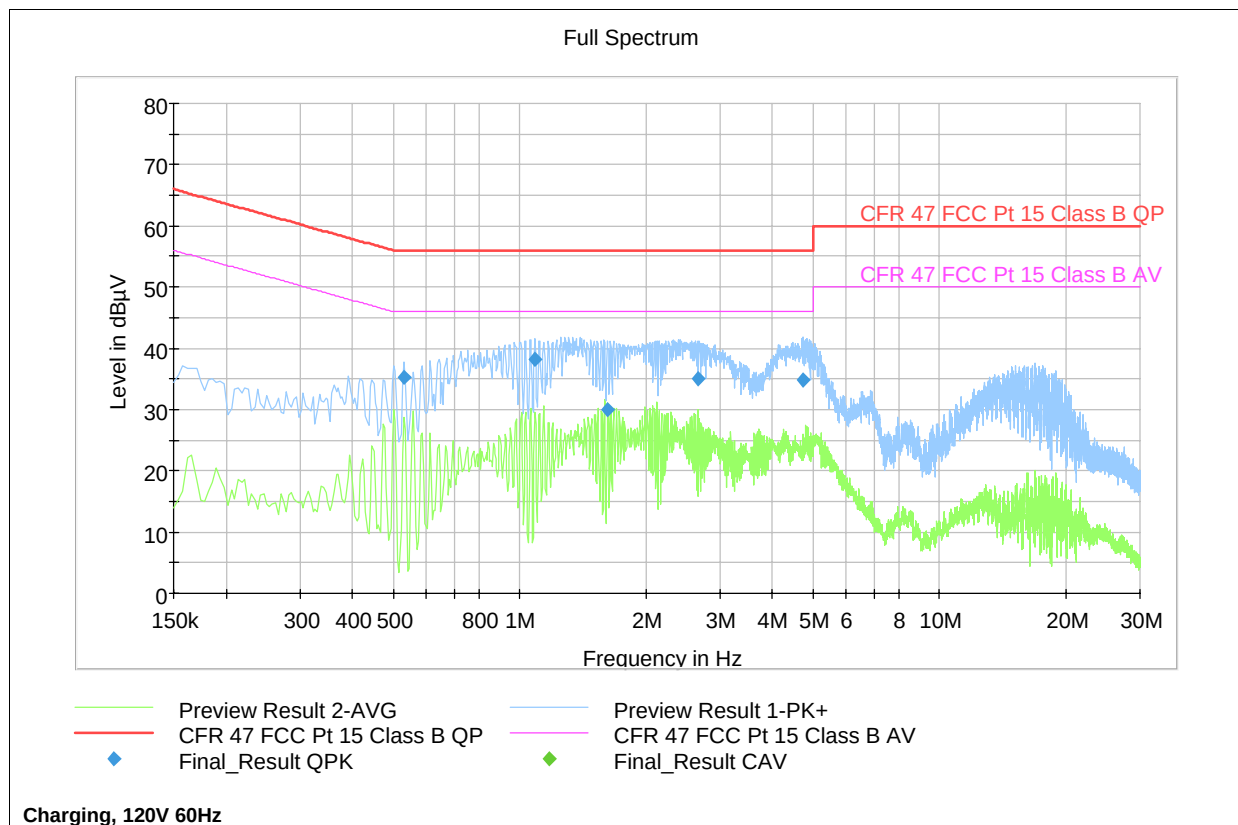
Highest measured value (L1 and N):

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter
0.530000	35.15	---	56.00	20.85	15000.0	9.000	L1	OFF
1.086000	38.20	---	56.00	17.80	15000.0	9.000	L1	OFF
1.618000	29.93	---	56.00	26.07	15000.0	9.000	N	OFF
2.658000	35.05	---	56.00	20.95	15000.0	9.000	N	OFF
4.738000	34.92	---	56.00	21.08	15000.0	9.000	L1	OFF

The measurement was performed with the EUT charging from the USB-C port.

The USB charger was supplied with 120V 60Hz AC power.

Charger used for this test: RS PRO RS # 9076255, Cicor Model: DSA-5PFU1-05 FCA 050100



3.2 Occupied Bandwidth (99% BW)

ISED Canada RSS-GEN Issue 6, Clause 5.1

Measurement procedure: ANSI C63.10-2020 Clause 6.9.2

Test Results: Complies

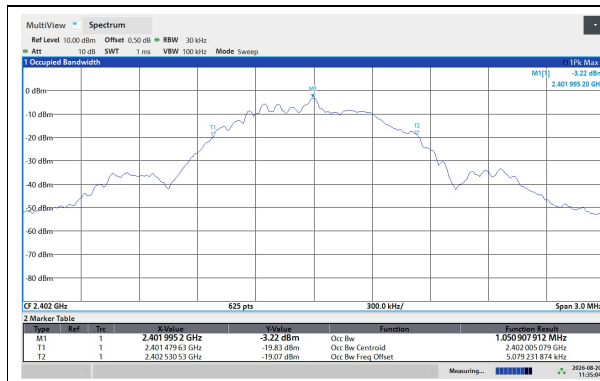
Measurement Data:

Modulation type and bitrate	Measured Occupied Bandwidth (99% BW) (MHz)		
	2402 MHz	2440 MHz	2480 MHz
GFSK 1 Mbps	1.051	1.052	1.055
GFSK 2 Mbps	2.045	2.047	2.050

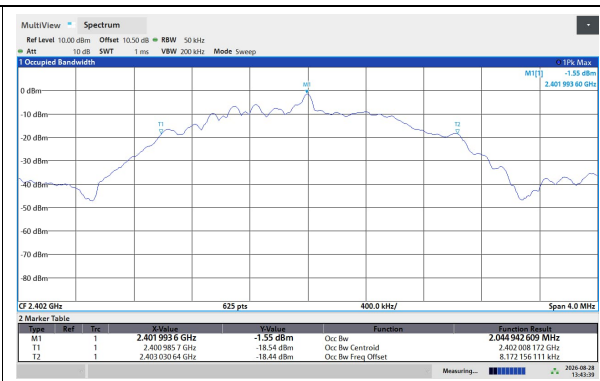
See attached plots

Requirements:

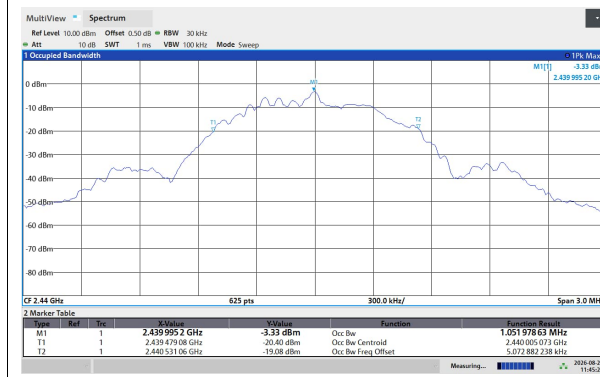
No requirement for 99% BW, reported for information only.



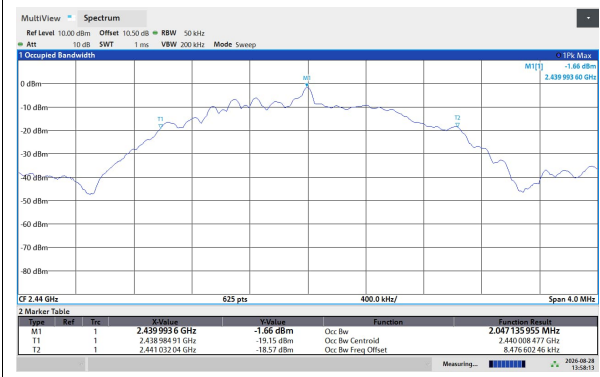
99% Occupied BW, 2402 MHz, 1Mb



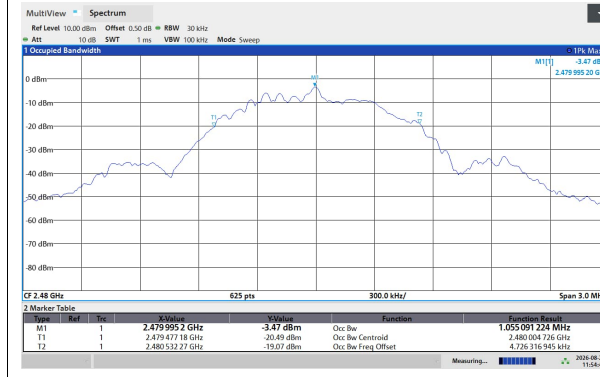
2Mb



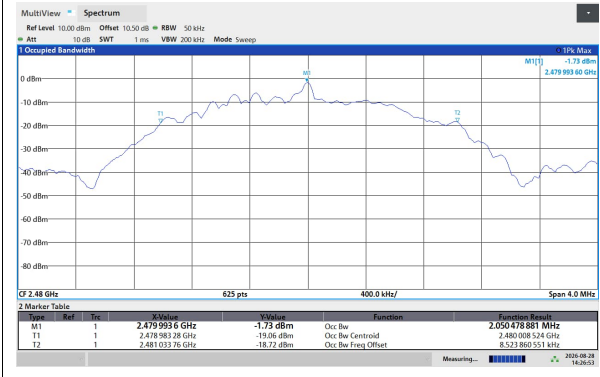
99% Occupied BW, 2440 MHz, 1Mb



2Mb



99% Occupied BW, 2480 MHz, 1Mb



2Mb

3.3 DTS Bandwidth

FCC Part 15.247 (a)(2)

ISED Canada RSS-247 Issue 4, Clause 6.3

Measurement procedure: ANSI C63.10-2020 Clause 11.8

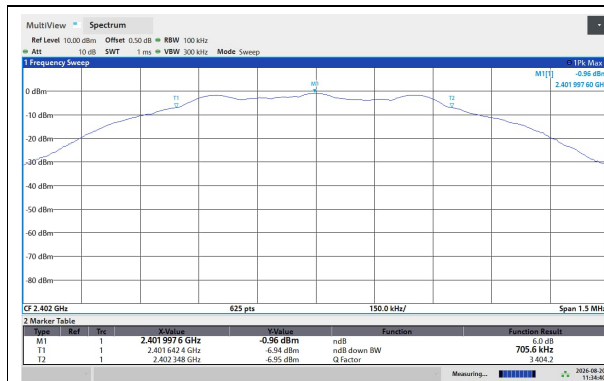
Test Results: Complies

Measurement Data:

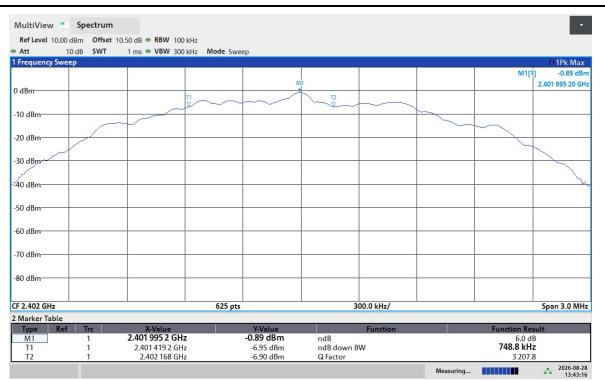
Modulation type and bitrate	Measured DTS Bandwidth (kHz)		
	2402 MHz	2440 MHz	2480 MHz
GFSK 1 Mbps	703	710	710
GFSK 2 Mbps	749	739	749

Power supply variation within 85 % to 115% of nominal value has no influence on measured value.

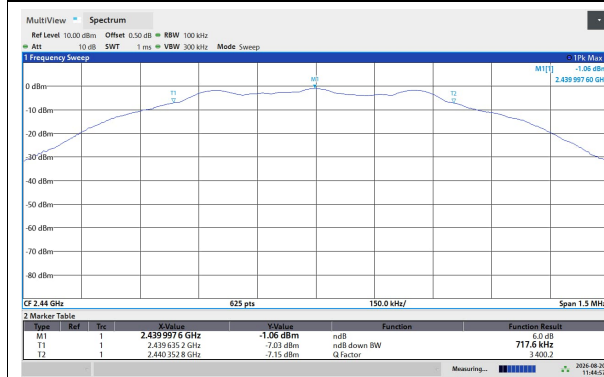
Frequency Band	Requirement for systems using Digital Modulation
902-928 MHz	The minimum 6 dB bandwidth shall be at least 500 kHz.
2400-2483.5 MHz	
5725-5850 MHz	



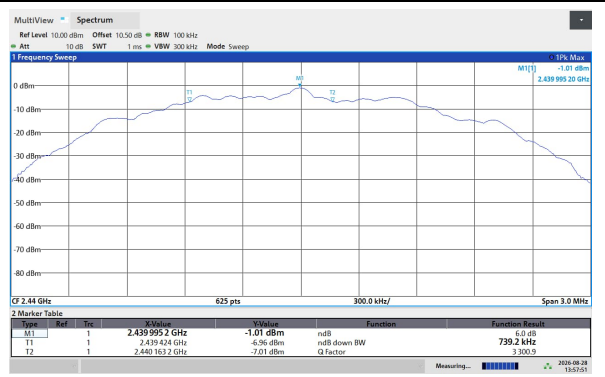
DTS BW, 2402 MHz, 1Mb



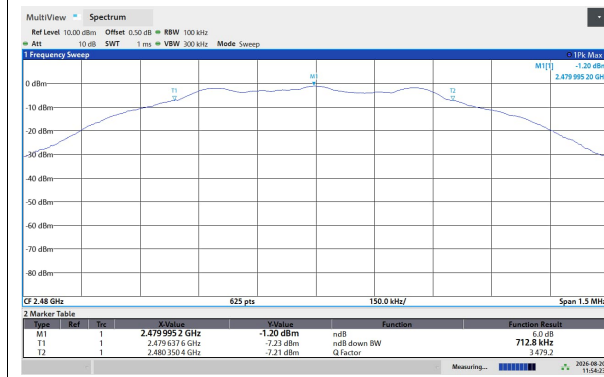
2Mb



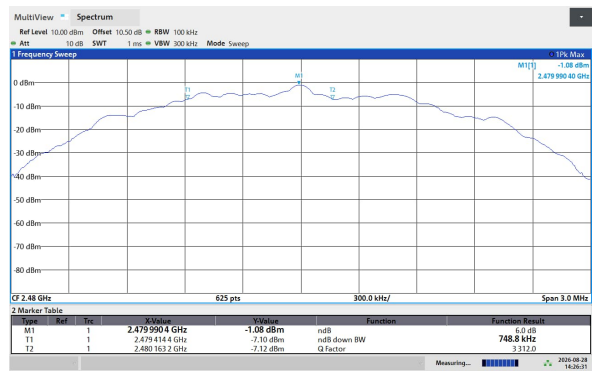
DTS BW, 2440 MHz, 1Mb



2Mb



DTS BW, 2480 MHz, 1Mb



2Mb

3.4 Peak Power Output

FCC Part 15.247 (b)

ISED Canada RSS-247 Issue 4, Clause 6.3.2

Measurement procedure: ANSI C63.10-2020 Clause 11.9.1.2

Test Results: Complies

Measurement Data:

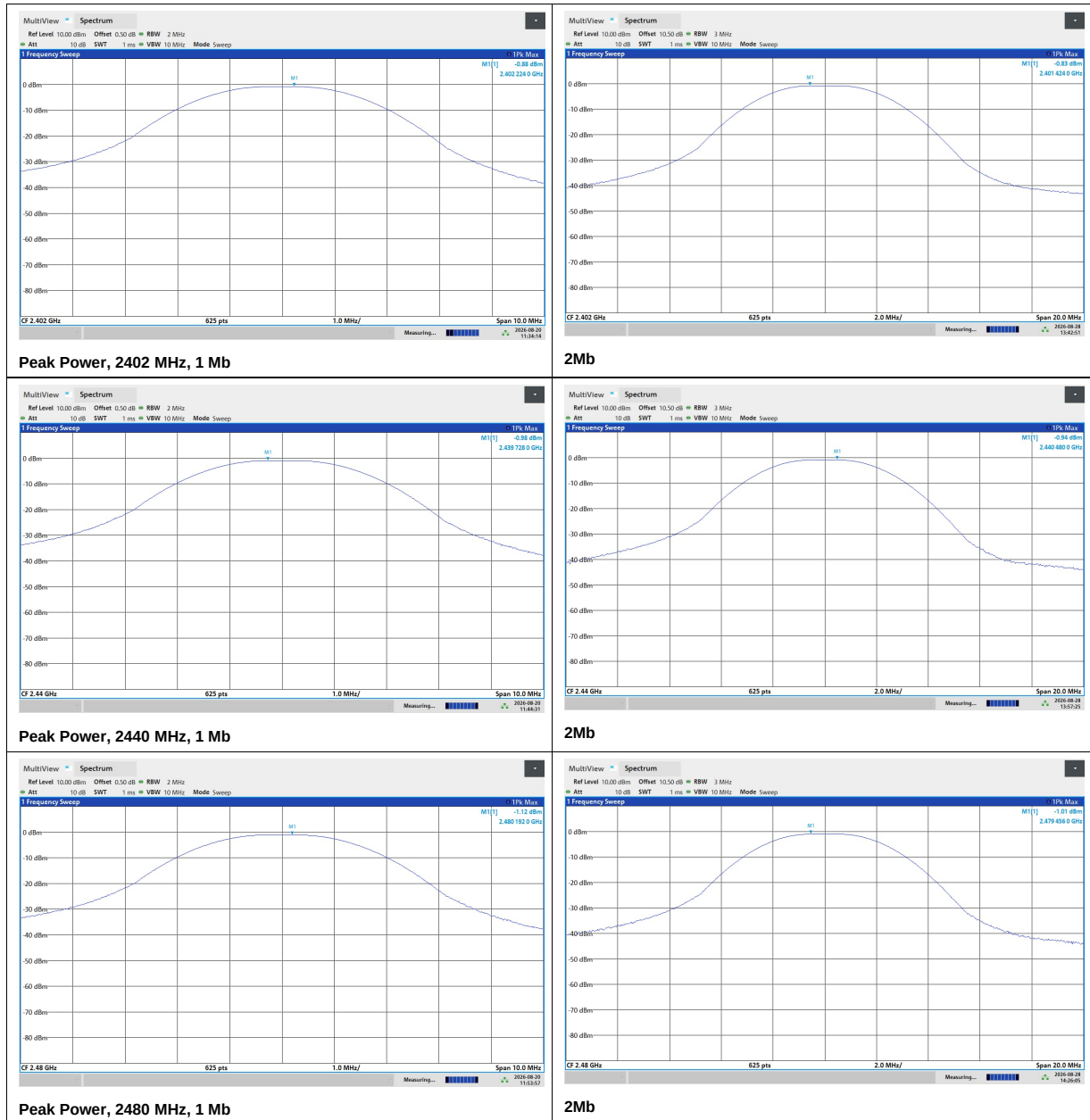
Carrier Frequency	Operating Mode	Peak Conducted Power, dBm	Measured Field Strength, dBμV/m @3m	Peak EIRP, dBm
2402 MHz	1 Mb	-0.88	100.4	5.16
	2 Mb	-0.83	100.8	5.57
2440 MHz	1 Mb	-0.98	100.3	5.09
	2 Mb	-0.94	101.2	5.97
2480 MHz	1 Mb	-1.12	100.7	5.48
	2 Mb	-1.01	100.8	5.57

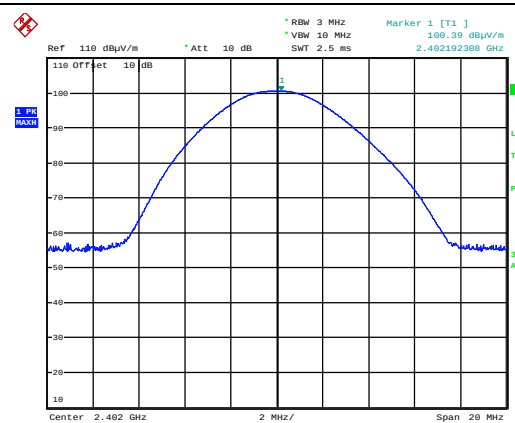
Output Power reported is Maximum Peak Power.

Radiated Power was calculated from measured Field Strength using the method described in ANSI C63.10-2020 Annex G.

See attached plots.

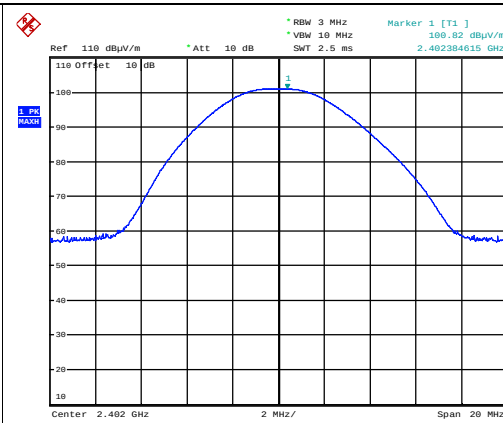
Requirements for Digital Modulation systems
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the 1 Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the <i>maximum conducted output power</i> is the highest total transmit power occurring in any mode.
Maximum allowed Antenna Gain
If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced below the stated value above by the amount in dB that the directional gain of the antenna exceeds 6 dBi.





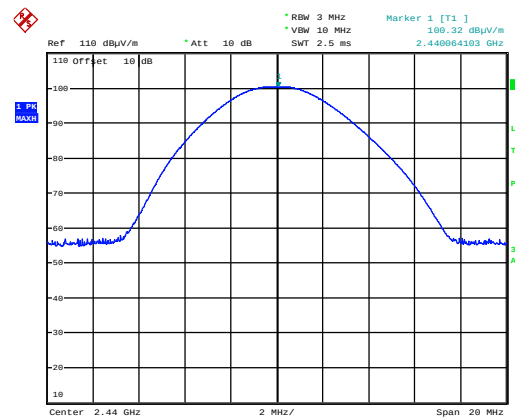
Date: 19.AUG.2026 13:46:59

Peak EIRP, 2402 MHz, 1Mb



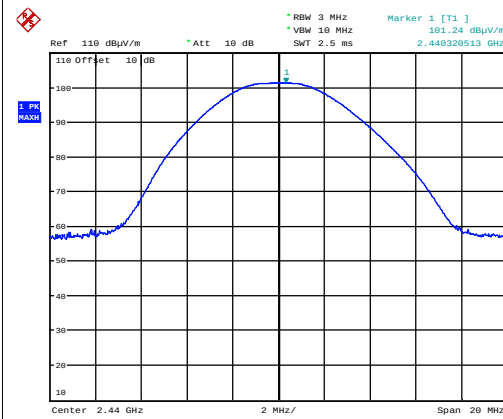
Date: 28.AUG.2026 16:50:24

2Mb



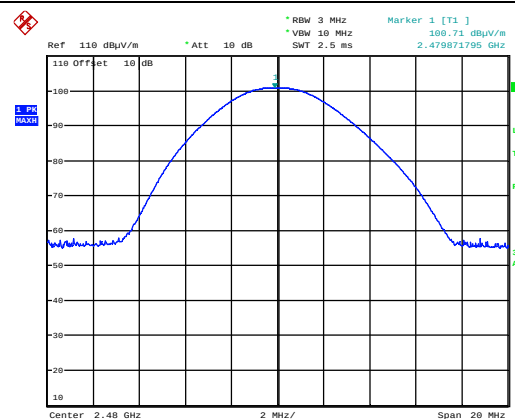
Date: 19.AUG.2026 13:59:32

Peak EIRP, 2440 MHz, 1Mb



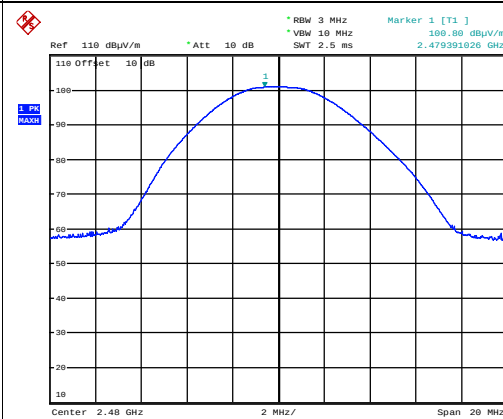
Date: 28.AUG.2026 17:00:43

2Mb



Date: 19.AUG.2026 12:32:47

Peak EIRP, 2480 MHz, 1Mb



Date: 28.AUG.2026 16:35:10

2Mb

3.5 Conducted Emissions at Antenna Connector

FCC Part 15.247 (d)

ISED Canada RSS-247 Issue 4, Clause 6.6

Measurement procedure: ANSI C63.10-2020 Clause 11.11

Test Results: Complies

Measurement Data:

Carrier Frequency	Highest Value (dBc)	Margin (dB)	Verdict
2402 MHz	> 50	> 30	Pass
2440 MHz	> 50	> 30	Pass
2480 MHz	> 50	> 30	Pass

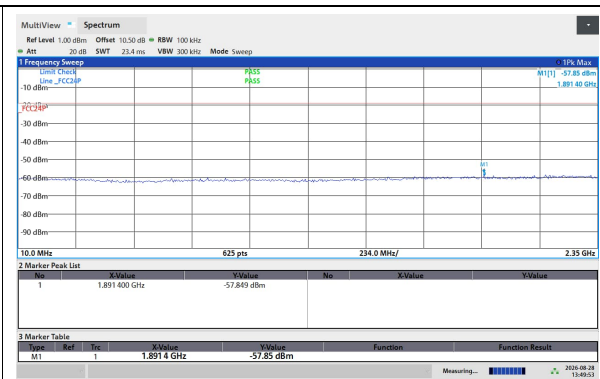
Measured with Peak Detector

RF conducted power to 25 GHz: see attached plots.

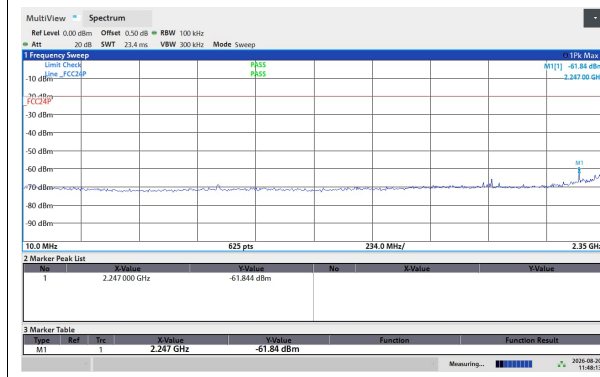
Requirements for all systems	
Peak measurement	RMS averaging (alternative measurement)
20 dB or more below carrier measured in 100 kHz bandwidth	30 dB or more below carrier measured in 100 kHz bandwidth
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.	



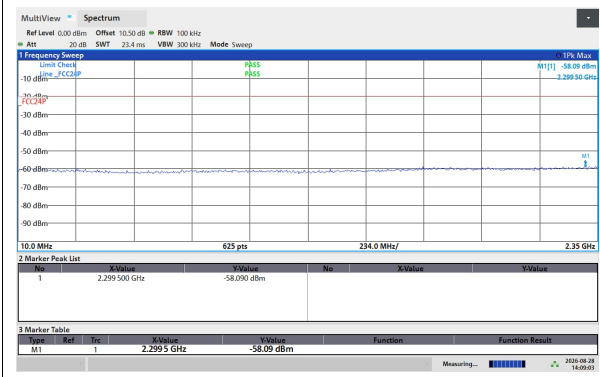
Conducted Emissions 10-2350 MHz, 2402 MHz, 1Mb



2Mb



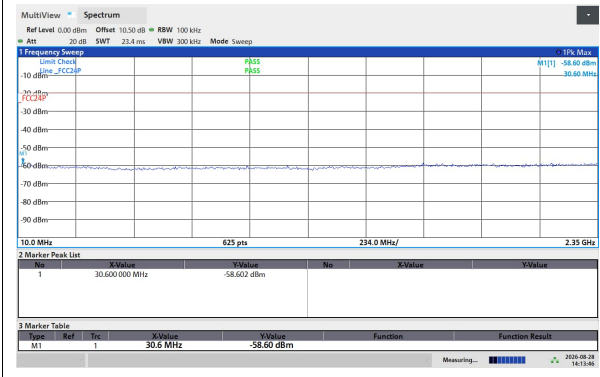
Conducted Emissions 10-2350 MHz, 2440 MHz, 1Mb



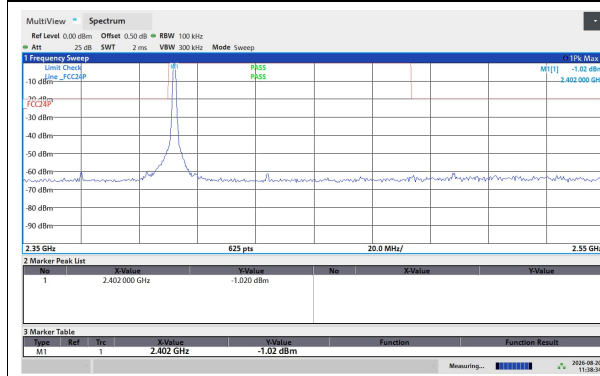
2Mb



Conducted Emissions 10-2350 MHz, 2480 MHz, 1Mb



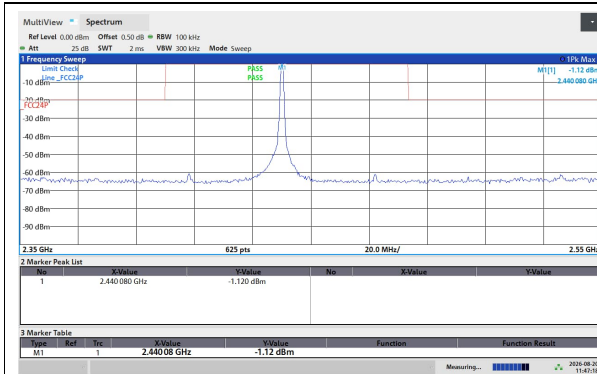
2Mb



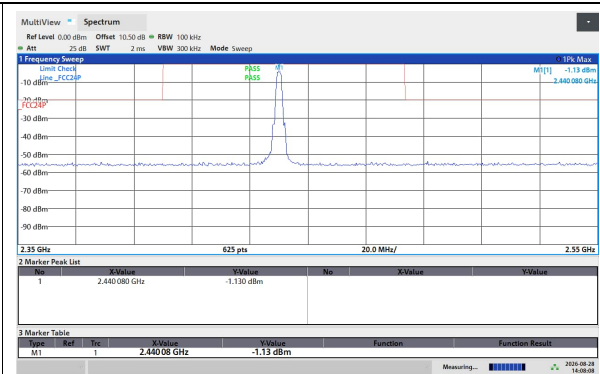
Conducted Emissions 2350-2550 MHz, 2402 MHz, 1Mb



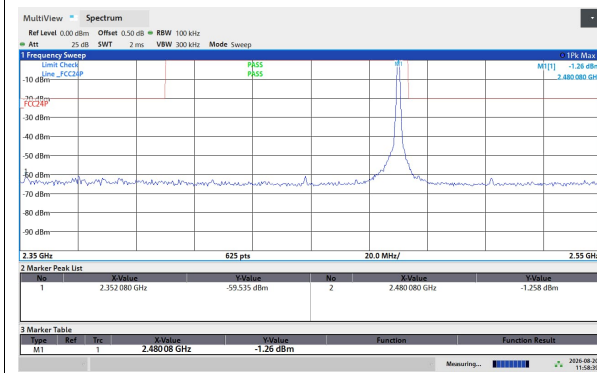
2Mb



Conducted Emissions 2350-2550 MHz, 2440 MHz, 1Mb



2Mb



Conducted Emissions 2350-2550 MHz, 2480 MHz, 1Mb



2Mb



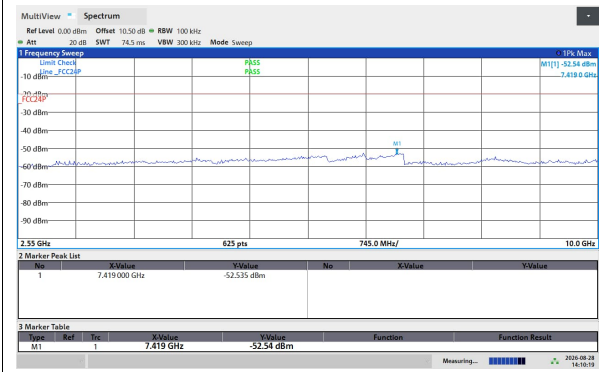
Conducted Emissions 2.55-10 GHz, 2402 MHz, 1Mb



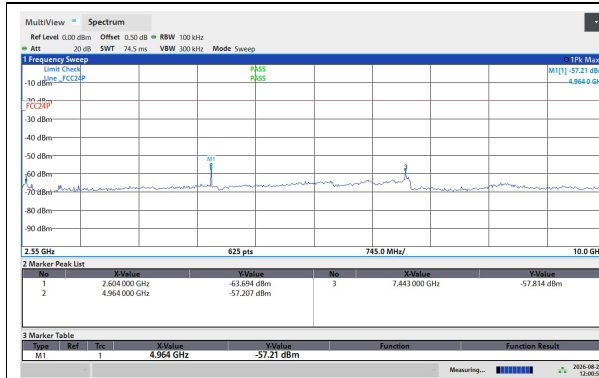
2Mb



Conducted Emissions 2.55-10 GHz, 2440 MHz, 1Mb



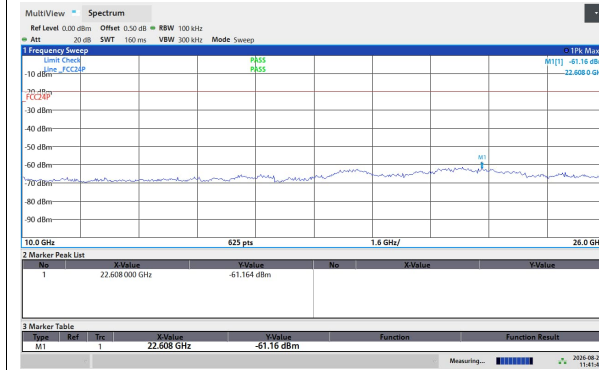
2Mb



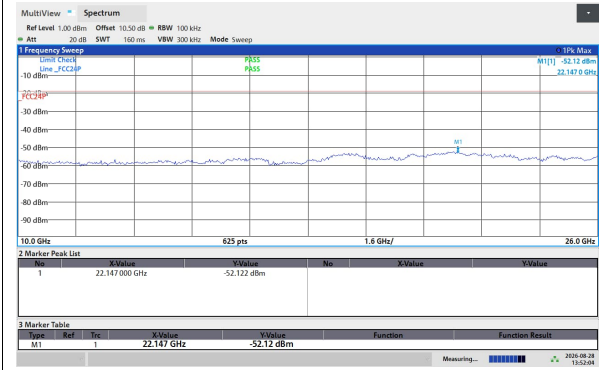
Conducted Emissions 2.55-10 GHz, 2480 MHz, 1Mb



2Mb



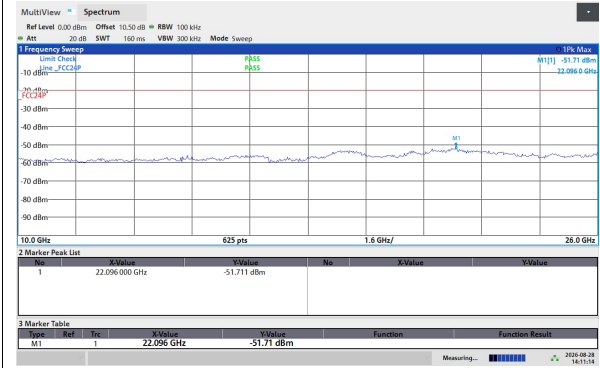
Conducted Emissions 10-26 GHz, 2402 MHz, 1Mb



2Mb



Conducted Emissions 10-26 GHz, 2440 MHz, 1Mb



2Mb



Conducted Emissions 10-26 GHz, 2480 MHz, 1Mb



2Mb

3.6 Restricted Bands of operation

Restricted Bands of operation for FCC and ISCED are defined in FCC Part 15.205 and ISCED RSS-GEN, Issue 6 clause 7.5.

Generally, no fundamentals are allowed in the restricted bands, and all emissions must comply with the limits in FCC 15.209 or RSS-GEN, Issue 6, clause 7.4.3.

FCC (MHz)	ISCED (MHz)	FCC (GHz)	ISCED (GHz)
0.090-0.110		0.96-1.24 1.3-1.427	0.96-1.427
0.495-0.505		1.435-1.6265	
2.1735-2.1905		1.6455-1.6465	
	3.020-3.026	1.660-1.710	
4.125-4.128		1.7188-1.7222	
4.17725-4.17775		2.2-2.3	
4.20725-4.20775		2.31-2.39	
	5.677-5.683	2.4835-2.5	
6.215-6.218		2.69-2.9	2.655-2.9
6.26775-6.26825		3.26-3.267	
6.31175-6.31225		3.332-3.339	
8.291-8.294		3.3458-3.358	
8.362-8.366		3.6-4.4	3.5-4.4
8.37625-8.38675		4.5-5.15	
8.41425-8.41475		5.35-5.46	
12.29-12.293		7.25-7.75	
12.51975-12.52025		8.025-8.5	
12.57675-12.57725		9.0-9.2	
13.36-13.41		9.3-9.5	
16.42-16.423		10.6-12.7	
16.69475-16.69525		13.25-13.4	
16.80425-16.80475		14.47-14.5	
25.5-25.67		15.35-16.2	
37.5-38.25		17.7-21.4	
73-74.6		22.01-23.12	
74.8-75.2		23.6-24.0	
108-121.94 123-138	108-138	31.2-31.8	
149.9-150.05		36.43-36.5	
156.52475-156.52525		Above 38.6	
156.7-156.9			
162.0125-167.17			
167.72-173.2			
240-285			
322-335.4			
399.9-410			
608-614			

Frequencies in **Bold** text are specific for FCC or ISCED, all other frequencies are common.

3.7 Radiated Emissions, Band Edge

FCC Part 15.209 (a)

ISED Canada RSS-GEN Issue 6, Clause 7.4.3 / 7.5

Measurement procedure: ANSI C63.10-2020 Clause 11.12

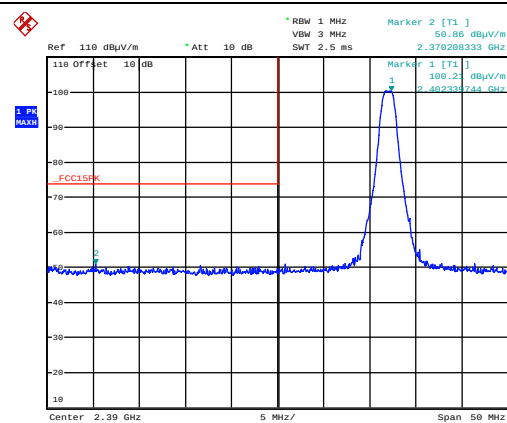
Test Results: Complies

Measurement Data:

Modulation and Bitrate	Operating Mode	Measured field strength (dB μ V/m)		Limit	Margin	
		2390 MHz	2483.5 MHz	dB	dB	
Peak Detector	1Mb	50.9	53.8	74	23.1	20.2
	2Mb	51.2	56.1	74	22.8	17.9
Average Detector	1Mb	39.3	40.2	54	14.7	13.8
	2Mb	39.4	44.8	54	14.6	9.2

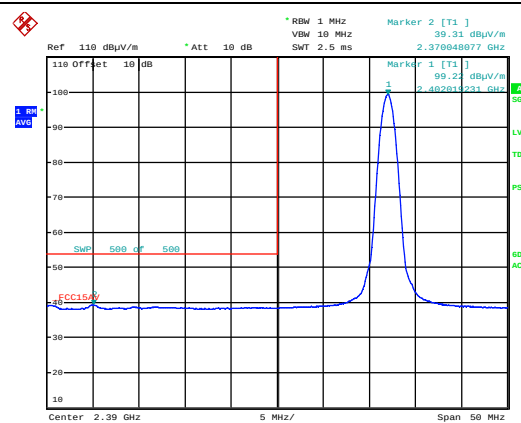
Average values were measured using trace averaging as described in ANSI C63.10-2013 clause 11.12.2.5.1 (Duty Cycle $\approx$ 100%).

See attached plots.



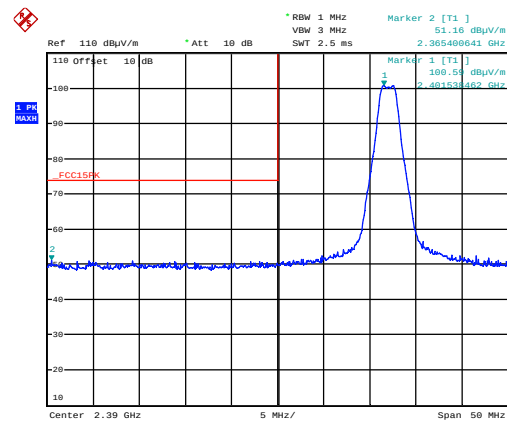
Date: 19.AUG.2026 13:48:09

Lower Band Edge, 2402 MHz, 1Mb, Peak



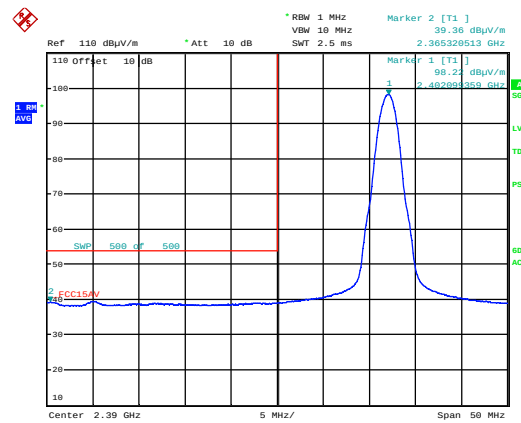
Date: 19.AUG.2026 13:48:39

Average



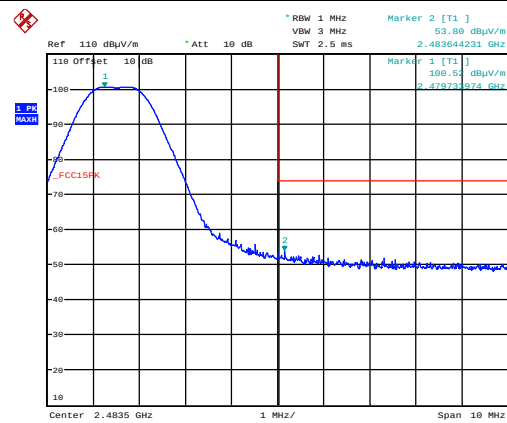
Date: 28.AUG.2026 16:51:46

Lower Band Edge, 2402 MHz, 2Mb, Peak



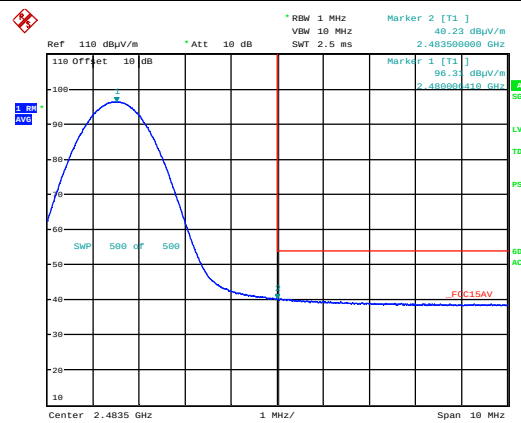
Date: 28.AUG.2026 16:52:12

Average



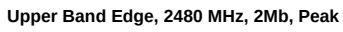
Date: 19.AUG.2026 12:33:31

Upper Band Edge, 2480 MHz, 1Mb, Peak



Date: 19.AUG.2026 12:49:00

Average



3.8 Radiated Emissions, 30 – 1000 MHz

FCC Part 15.209 (a)

ISED Canada RSS-GEN Issue 6, Clause 7.4.3 / 7.5

Measurement procedure: ANSI C63.10-2020 Clause 11.12

Test Results: Complies

Measurement Data:

Detector: Peak (Measurements with Quasi-Peak)

Measuring distance: 3 m

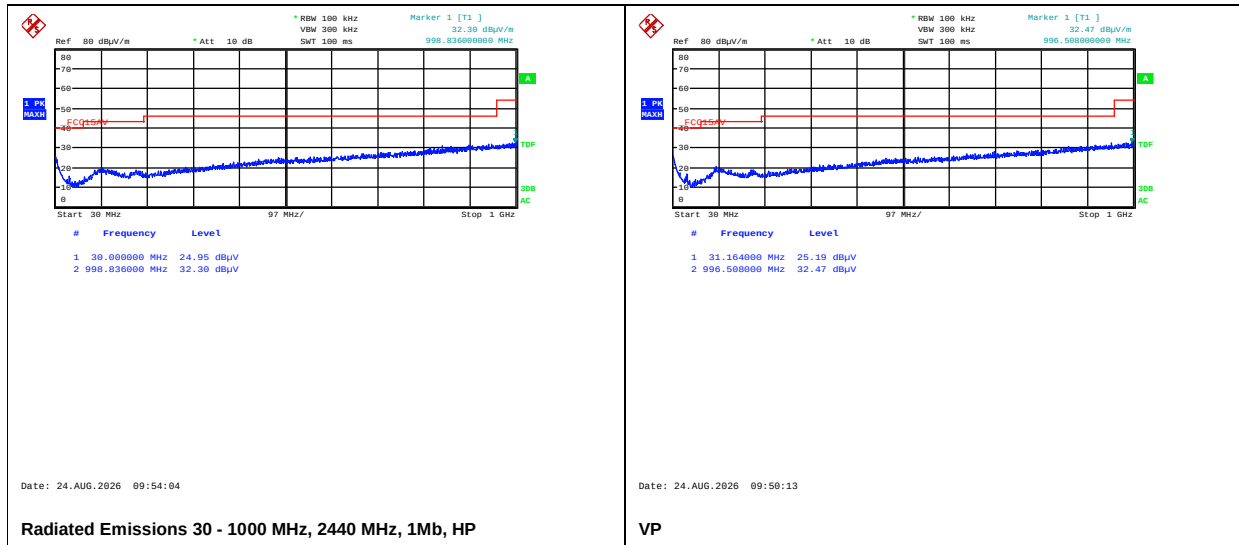
Tested in test mode with EUT transmitting on 2440 MHz

Measured Frequency (MHz)	Carrier Frequency (MHz)	Modulation	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30 – 88	2440	GFSK	< 30	40.0	> 10
88 – 216	2440	GFSK	< 23.5	43.5	> 20
216 – 960	2440	GFSK	< 32	46.0	> 14
960 – 1000	2440	GFSK	< 34	54.0	> 20

See attached plots

Requirements/Limit

FCC	Part 15.209 @ frequencies defined in §15.205	
ISED	RSS-GEN Issue 6, Clause 7.4.3 @ frequencies defined in clause 7.5	
	Radiated emission limit @3 meters	
Frequency	Quasi Peak Detector	
30 – 88 MHz	100 µV/m	40.0 dBµV/m
88 – 216 MHz	150 µV/m	43.5 dBµV/m
216 – 960 MHz	200 µV/m	46.0 dBµV/m
960 – 1000 MHz	500 µV/m	54.0 dBµV/m



3.9 Radiated Emissions, 1 – 26 GHz

FCC Part 15.209 (a)

ISED Canada RSS-GEN Issue 6, Clause 7.4.3 / 7.5

Measurement procedure: ANSI C63.10-2020 Clause 11.12

Test Results: Complies

Measurement Data:

Measuring distance: 3m (1 – 18 GHz)

A pre-scan was performed above 18 GHz, and no spurious emissions were detected.

Carrier Frequency (MHz)	Measured Frequency (MHz)	Mode	Measured Emissions (dBµV/m)		Limit (dBµV/m)		Margin (dB)	
			Peak	Average	Pk	Av	Pk	Av
2402	4804	1Mb	52.1	46.7	74	54	21.9	7.3
	7206*	1Mb	58.7	53.8	/	/	/	/
	7206*	2Mb	59.9	52.8	/	/	/	/
2440	4880	1Mb	54.6	50.3	74	54	19.4	3.7
	7320	1Mb	59.4	53.9	74	54	14.6	0.1
	7320	2Mb	59.3	51.7	74	54	14.7	2.3
2480	4960	1Mb	54.5	49.9	74	54	19.5	4.1
	7440	1Mb	59.0	54.0	74	54	15.0	0.0
	7440	2Mb	59.8	52.5	74	54	14.2	1.5

*This is not in a restricted band

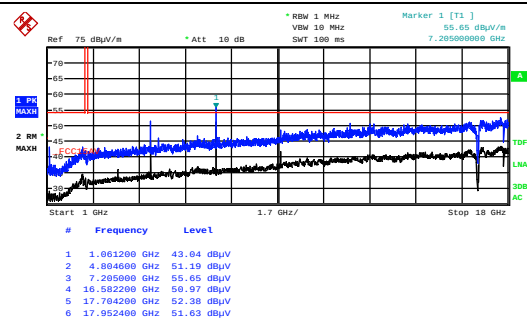
A Band Reject Filter was used for measurements from 1 GHz to 18 GHz

Antenna factor, amplifier gain and cable loss are included in spectrum analyzer "Transducer factor"

See plots

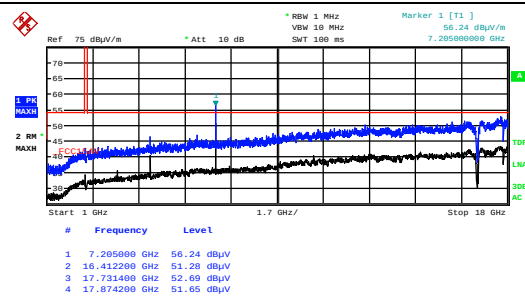
Requirements/Limit

FCC	Part 15.209 @ frequencies defined in §15.205	
ISED	RSS-GEN Issue 6, Clause 7.4.3 @ frequencies defined in clause 7.5	
	Radiated emission limit @3 meters	
Frequency	Average Detector	Peak Detector
1 – 26 GHz	54.0 dBµV/m	74.0 dBµV/m



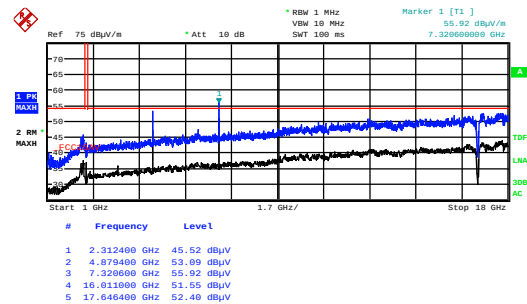
Date: 19.AUG.2026 15:07:27

Radiated Emissions 1 - 18 GHz, 2402 MHz, 1M, HP



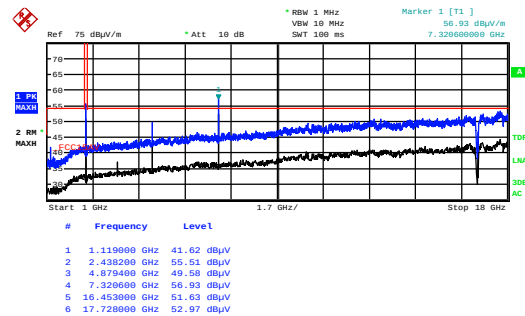
Date: 19.AUG.2026 15:05:39

Radiated Emissions 1 - 18 GHz, 2402 MHz, 1M, VP



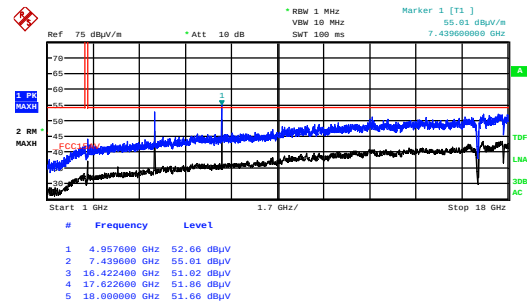
Date: 19.AUG.2026 14:29:26

Radiated Emissions 1 - 18 GHz, 2440 MHz, 1M, HP



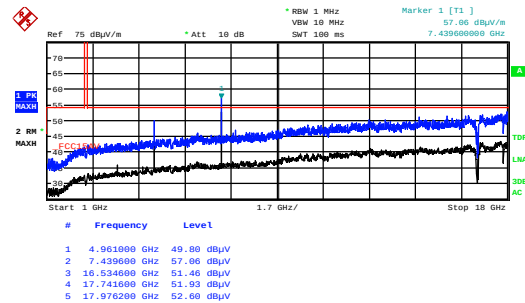
Date: 19.AUG.2026 14:22:03

Radiated Emissions 1 - 18 GHz, 2440 MHz, 1M, VP



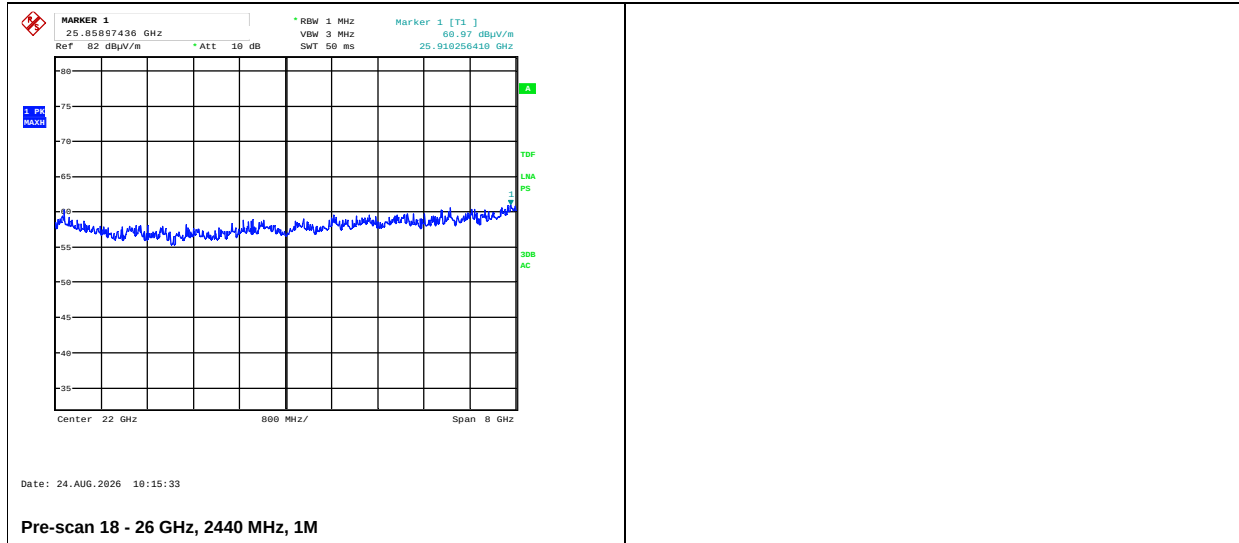
Date: 19.AUG.2026 15:43:33

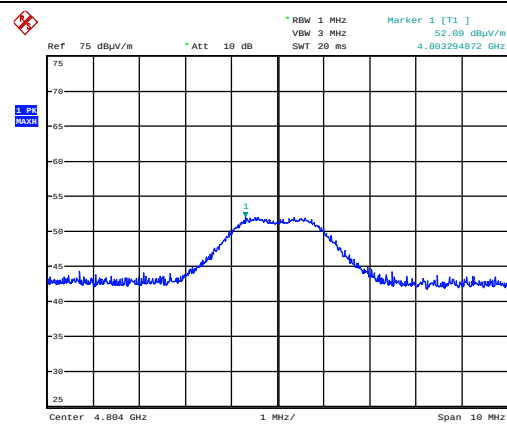
Radiated Emissions 1 - 18 GHz, 2480 MHz, 1M, HP



Date: 19.AUG.2026 15:41:36

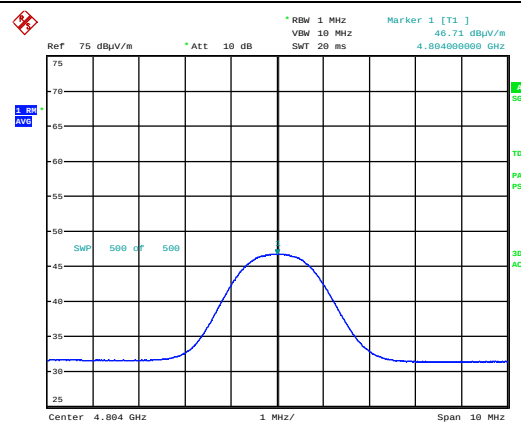
Radiated Emissions 1 - 18 GHz, 2480 MHz, 1M, VP





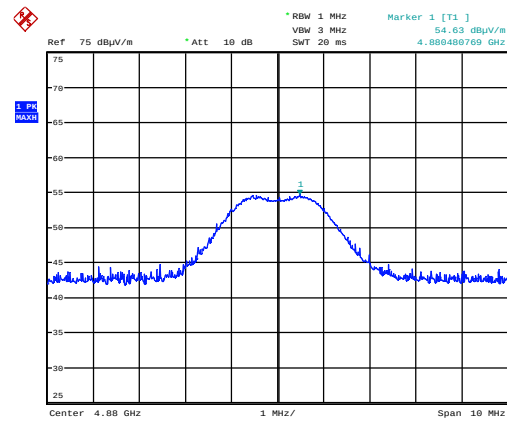
Date: 19.AUG.2026 15:25:13

Spurious 4804 MHz, 2402 MHz, 1Mb, Peak, Max: HP, YZ



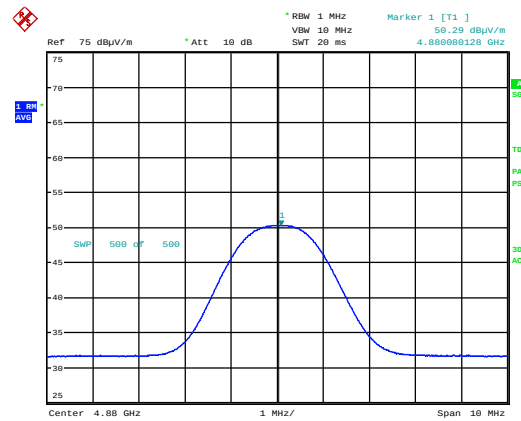
Date: 19.AUG.2026 15:25:42

Average



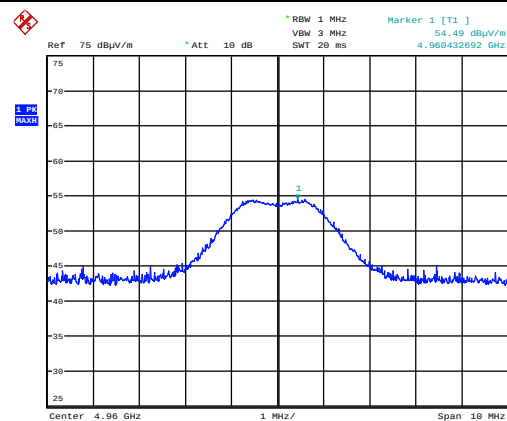
Date: 19.AUG.2026 14:57:23

Spurious 4880 MHz, 2440 MHz, 1Mb, Peak Max: HP, YZ



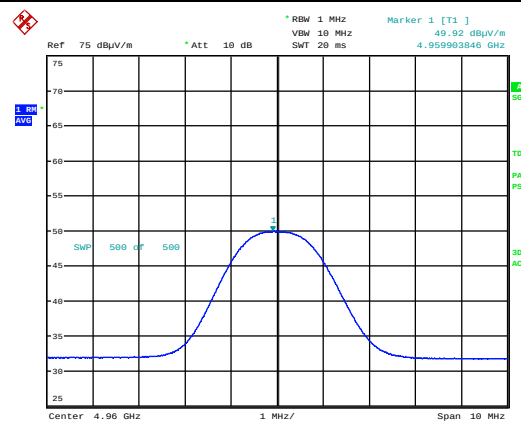
Date: 19.AUG.2026 14:57:52

Average



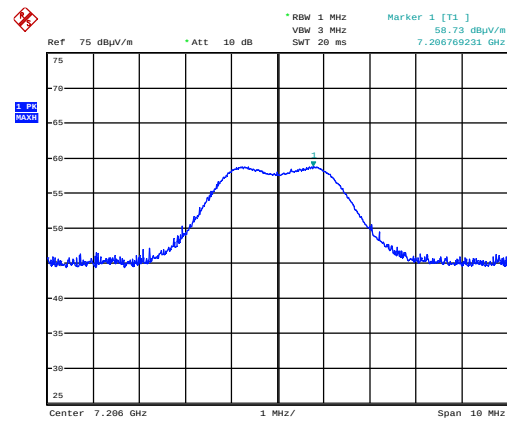
Date: 19.AUG.2026 15:31:01

Spurious 4960 MHz, 2480 MHz, 1Mb, Peak, Max: HP, YZ



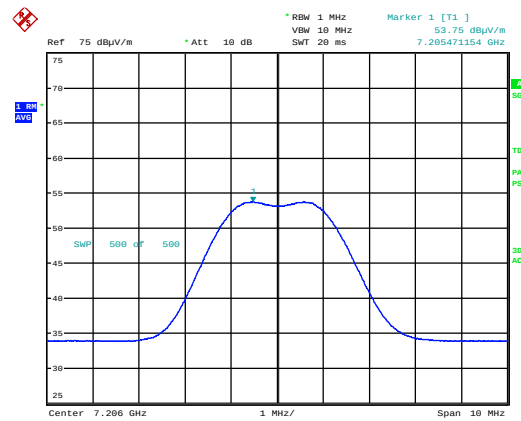
Date: 19.AUG.2026 15:31:31

Average



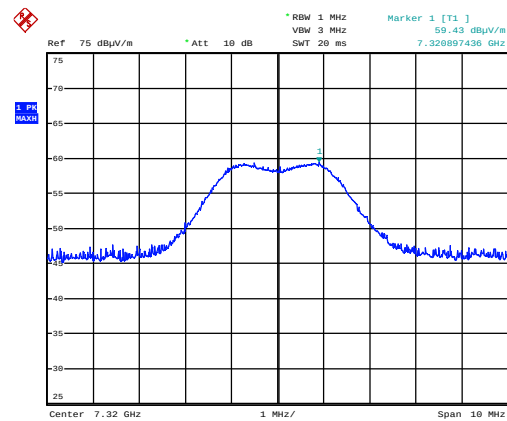
Date: 19.AUG.2026 15:16:36

Spurious 7206 MHz, 2402 MHz, 1Mb, Peak, Max: VP, YZ



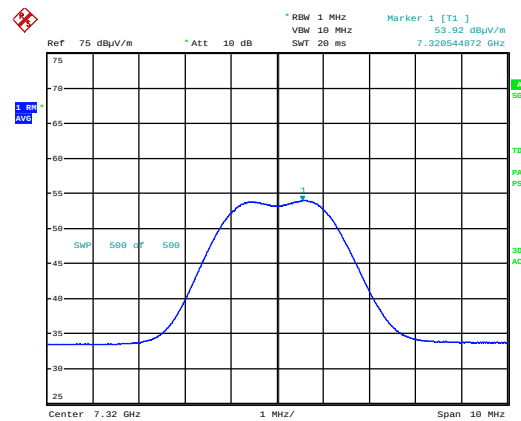
Date: 19.AUG.2026 15:17:02

Average



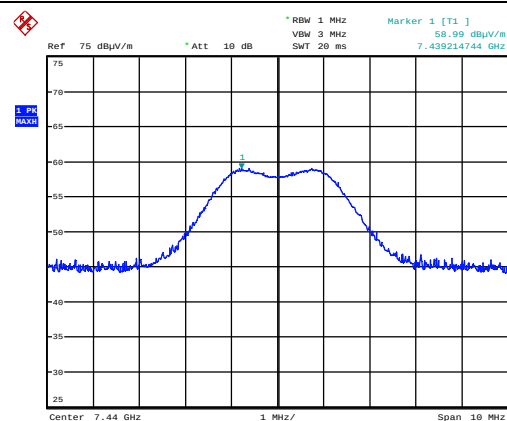
Date: 19.AUG.2026 14:43:33

Spurious 7320 MHz, 2440 MHz, 1Mb, Peak Max: VP, YZ



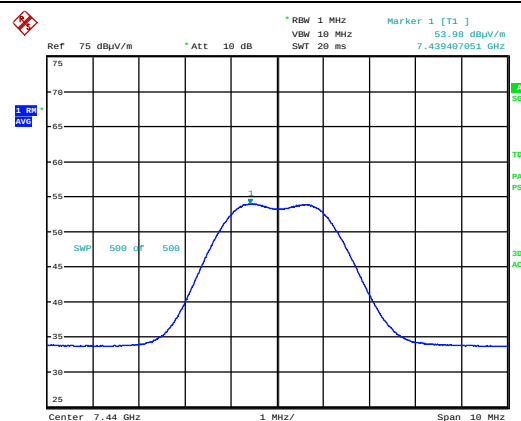
Date: 19.AUG.2026 14:45:20

Average



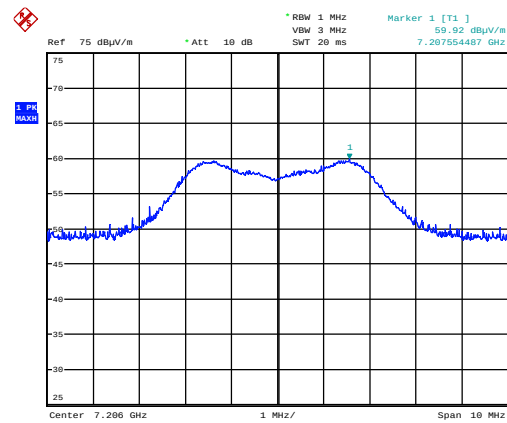
Date: 19.AUG.2026 15:37:14

Spurious 7440 MHz, 2480 MHz, 1Mb, Peak, Max: VP, YZ



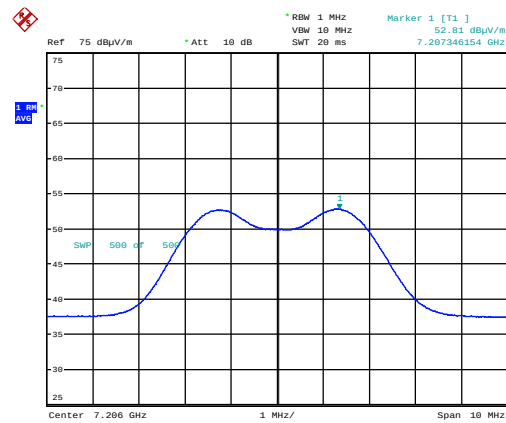
Date: 19.AUG.2026 15:37:42

Average



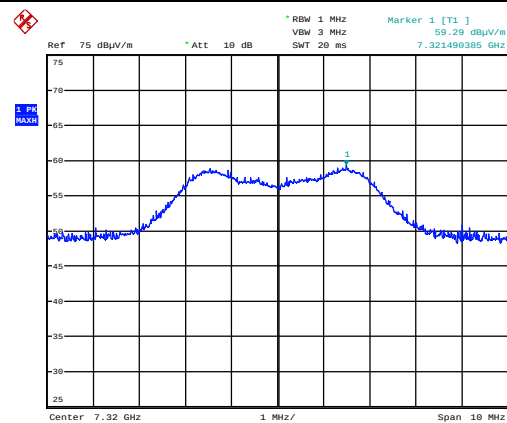
Date: 28.AUG.2026 18:22:04

Spurious 7206 MHz, 2402 MHz, 2Mb, Peak, Max: VP, YZ



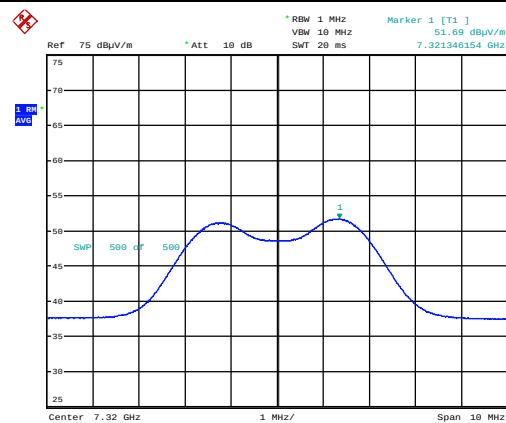
Date: 28.AUG.2026 18:22:38

Average



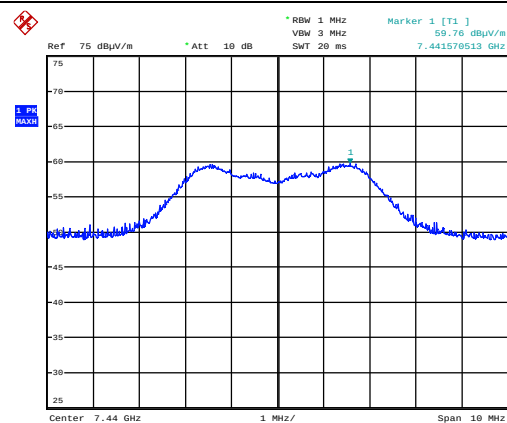
Date: 28.AUG.2026 18:13:37

Spurious 7320 MHz, 2440 MHz, 1Mb, Peak Max: VP, YZ



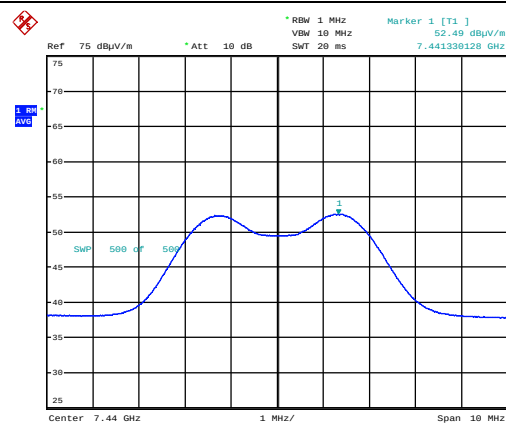
Date: 28.AUG.2026 18:14:02

Average



Date: 28.AUG.2026 18:29:35

Spurious 7440 MHz, 2480 MHz, 2Mb, Peak, Max: VP, YZ



Date: 28.AUG.2026 18:30:02

Average

3.10 Power Spectral Density (PSD)

FCC part 15.247(d)

ISED Canada RSS-247 Issue 4, Clause 6.3.1

Measurement procedure: ANSI C63.10-2020 Clause 11.10

Test Results: Complies

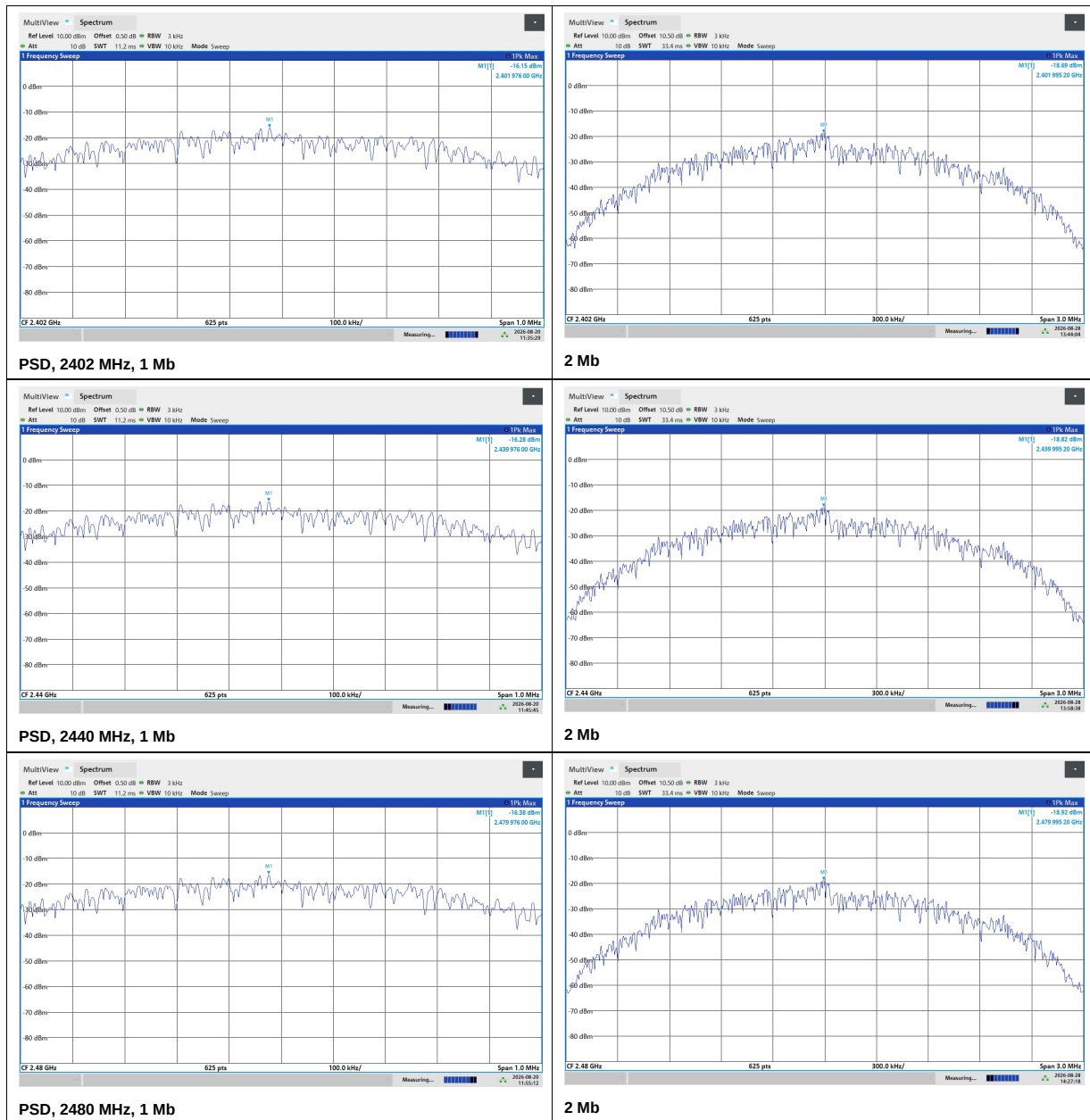
Measurement Data:

The measurement procedure PKPSD described in ANSI C63.10-2020 was used.

Modulation Type and Bitrate	Measured Power Spectral Density (dBm/3kHz)		
	2402 MHz	2440 MHz	2480 MHz
GFSK 1Mb	-16.1	-16.3	-16.4
GFSK 2Mb	-18.7	-18.8	-18.9

Requirement for systems using Digital Modulation

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.



4 Measurement Uncertainty

Measurement Uncertainty Values		
Test Item		Uncertainty
Output Power		±0.5 dB
Power Spectral Density		±0.5 dB
Out of Band Emissions, Conducted	< 3.6 GHz	±0.6 dB
	> 3.6 GHz	±0.9 dB
Spurious Emissions, Radiated	< 1 GHz	±2.5 dB
	> 1 GHz	±2.2 dB
Emission Bandwidth		±4 %
Power Line Conducted Emissions		+2.9 / -4.1 dB
Spectrum Mask Measurements	Frequency	±5 %
	Amplitude	±1.0 dB
Frequency Error		±0.6 ppm
Temperature Uncertainty		±1 °C

All uncertainty values are expanded standard uncertainty to give a confidence level of 95%, based on coverage factor k=2

5 LIST OF TEST EQUIPMENT

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the testhouse.

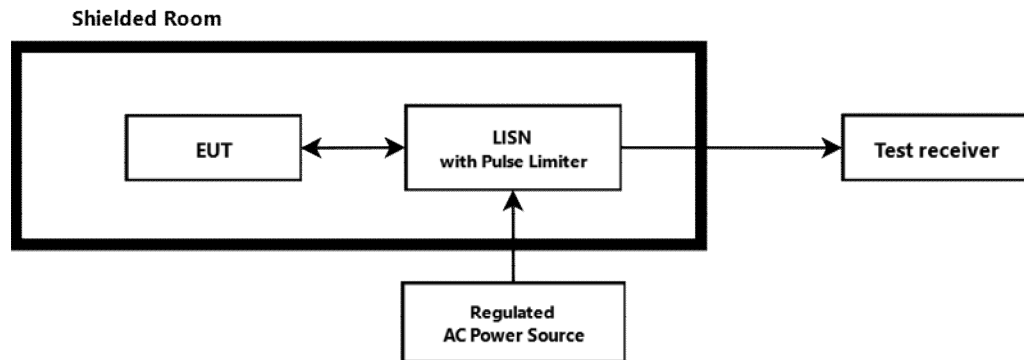
No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1	FSVA3044	Spectrum Analyzer	Rohde & Schwarz	LR 1808	2026-01	2027-01
2	ESU40	Measuring Receiver	Rohde & Schwarz	LR 1639	2026-01	2027-01
3	6810.17B	Attenuator	Suhner	LR 1669	COU	
4	NO324415	Band Reject Filter (2.4 GHz)	Microwave Circuits	LR 1760	COU	
5	JB3	BiLog Antenna	Sunol	LR 1734	2025-04	2028-04
6	310	Preamplifier	Sonoma Inst.	LR 1686	2026-08	2027-08
7	3115	Horn Antenna	EMCO	LR 1330	2022-11	2027-11
8	3117-PA	Horn Antenna +PreAmp	EMCO	LR 1717	2026-03	2027-03
9	8449A	Pre-amplifier	Hewlett Packard	LR 1322	2026-08	2027-08
10	WLK5-1100-1485-7000-40SS	Low Pass Filter (1 GHz)	Wainwright Inst.	LR 1762	COU	
11	638	Antenna Horn	Narda	LR 1480	N/A	
12	ST18/SMA/N/36	RF Cable	Suhner	LR 1627	COU	

The software listed below has been used for one or more tests.

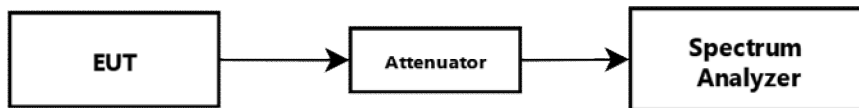
No.	Manufacturer	Name	Version	Comment
1	Rohde & Schwarz	EMC32	10.50.40	EMC test software
2	Nemko	RSPlot	1.0.8.0	Screenshots from R&S Spectrum Analyzers

6 BLOCK DIAGRAMS

6.1 Power Line Conducted Emission

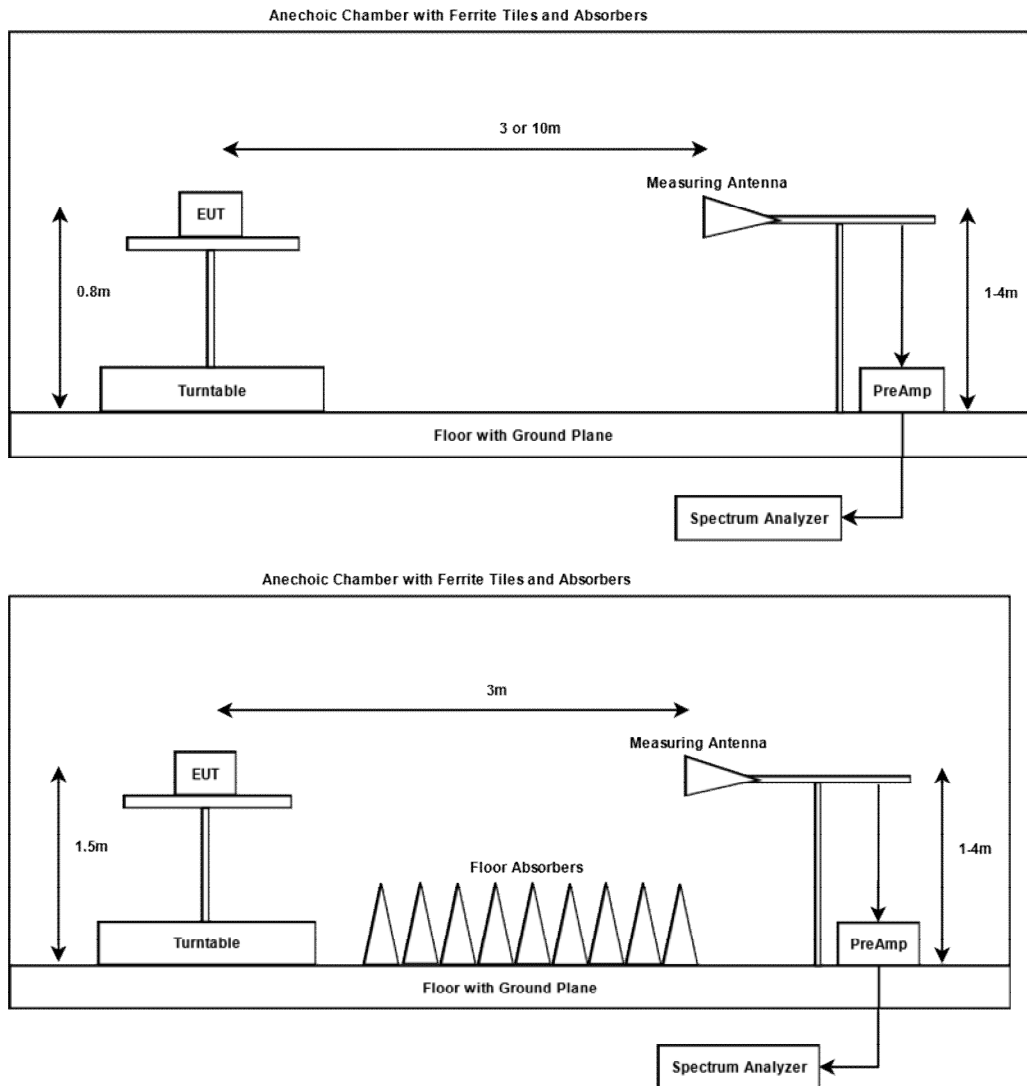


6.2 Conducted Tests



This test set-up is used for all Conducted tests.
For Frequency Stability test the EUT was placed in a climatic chamber.

6.3 Test Site Radiated Emission



This test setup is used for all radiated emissions tests. Measuring distance is 3m. Emissions above 1 GHz are measured with a Spectrum Analyzer and Horn Antenna.

All measurements at 1GHz and above were performed with turntable height 1.5m and with the ground plane covered by absorbers. A pre-amplifier is used for all measurements. A Band-Stop filter is used for all measurements from 1 to 18 GHz, and a Low-Pass filter is used below 1 GHz.

For measurements above 18 GHz the test receiver is moved inside the anechoic chamber and located next to the antenna to minimize cable loss. Measurements above 18 GHz are performed at 1m measuring distance.