

# Substance Drug Checking

## Preliminary Results for February 2026

Substance Drug Checking on Vancouver Island offers free and confidential drug checking services in Victoria, Port Alberni, Comox Valley, Campbell River, Duncan, Port Hardy, and at local events. This report presents data about the drug supply on Vancouver Island for February 2025.

### Highlighted findings:

- The median fentanyl concentration found across all drug categories was 6.0%
- The median fluorofentanyl concentration found across all drug categories was 7.1%
- Benzodiazepines were found in 39.2% (91/232) of expected Opioid - Down samples
  - Bromazolam was found in 26 Opioid - Down samples with a median concentration of 2.7% and maximum concentration of 18.6%
- Xylazine was found in 1 expected Opioid - Down samples with a median concentration of 0.8% and a maximum concentration of 0.8%
- Medetomidine was found in 16 expected Opioid - Down samples with a median concentration of 0.8% and a maximum concentration of 6.2%

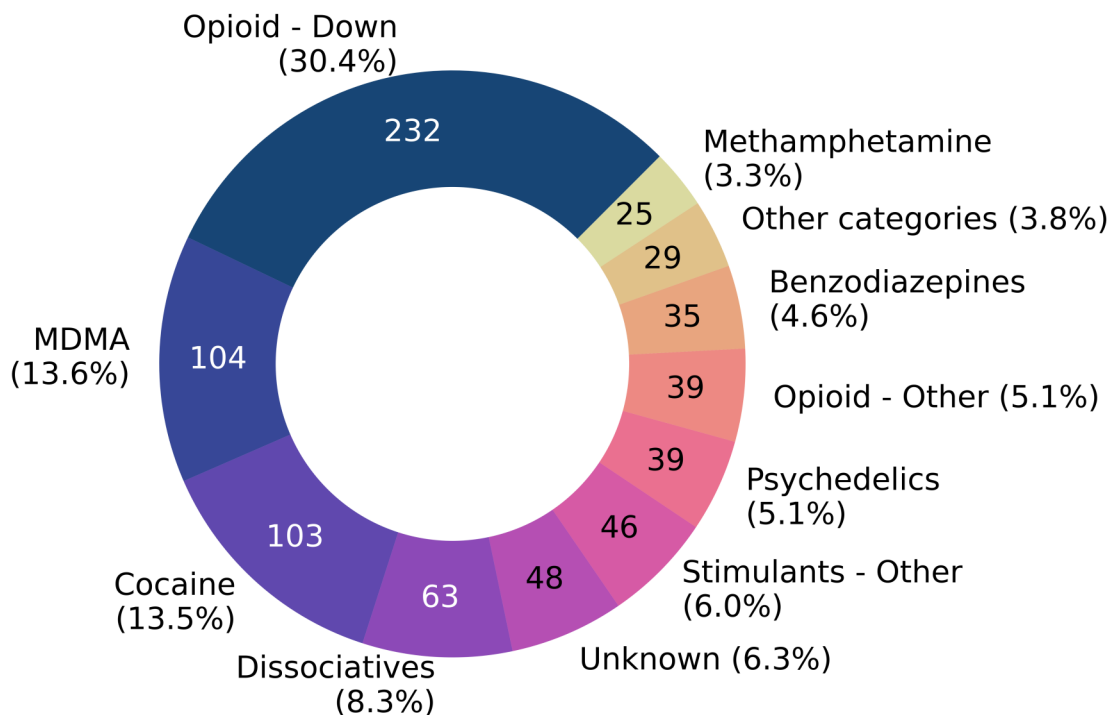
# 763

Samples Tested  
February 2025

[Read our blog](#) for further interpretations of our February data.

## What were people bringing to be checked?

Service users bring us a wide variety of substances that can be grouped into different drug classes. This pie chart aggregates the samples we checked by their “expected” substance (i.e. the drug category reported by the service user). The number of samples checked in each class is included inside each slice and the relative proportion of all samples checked is given in parentheses. These data are separated by collection location/method on the following page.

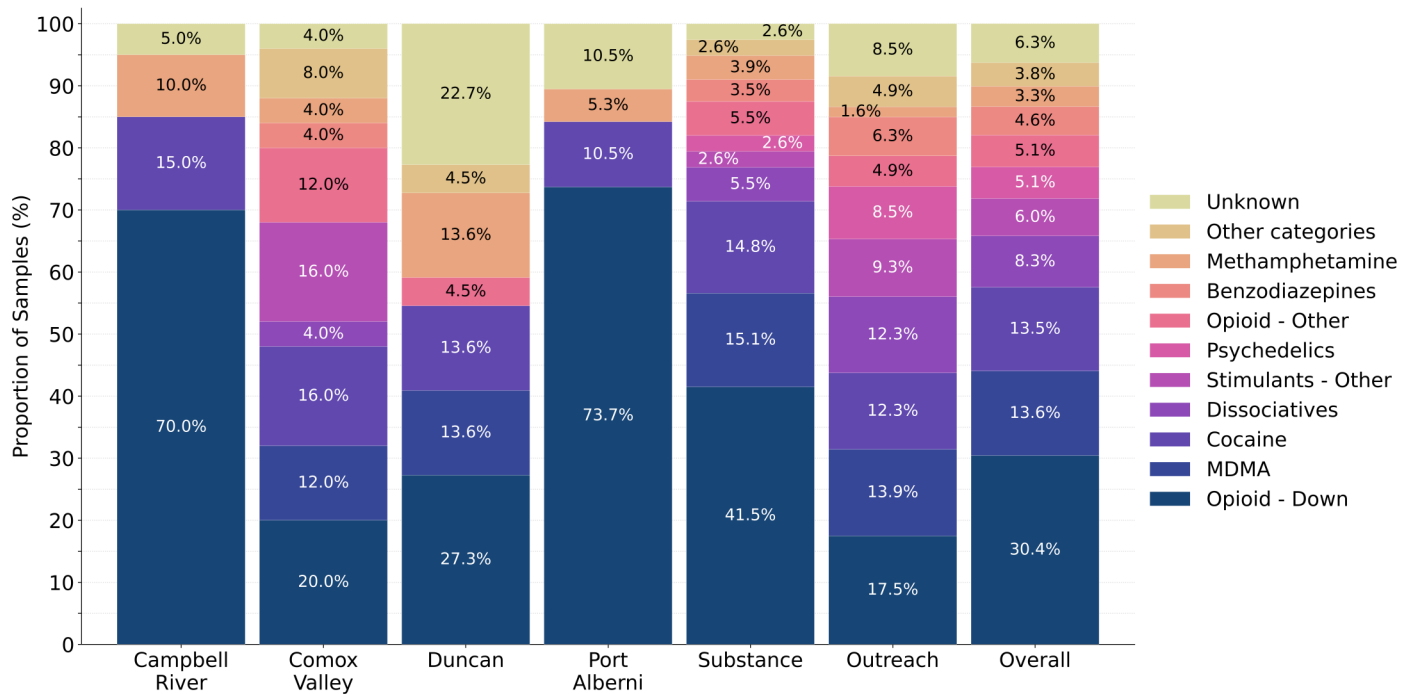


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## What were people bringing to be checked by service model?

The “expected substance” data presented on the previous page can be separated by sample collection location/ method, where “Substance” samples are those brought directly to our Victoria storefront, “Campbell River”, “Comox Valley”, “Duncan”, “Port Alberni”, and “Port Hardy” are samples received through our distributed drug checking model, and “Outreach” samples are those collected at supported housing sites, at overdose prevention and supervised consumption locations, and through drop-off envelopes. The relative proportions of samples checked by expected class and location are shown in the figure below; sample counts are listed in the table at the bottom of this page.



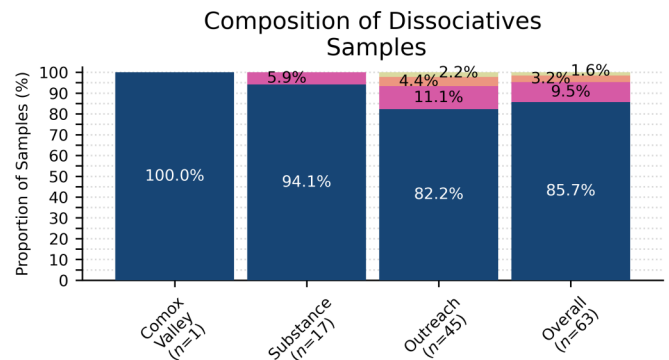
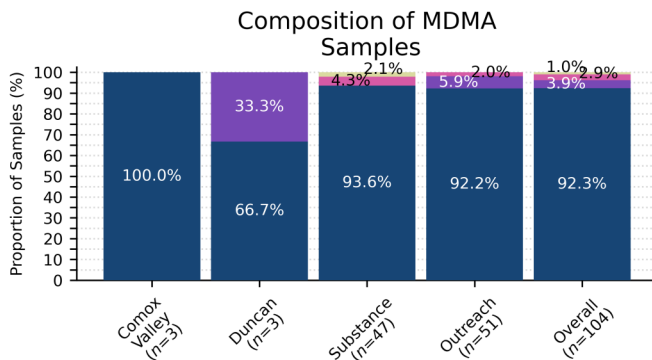
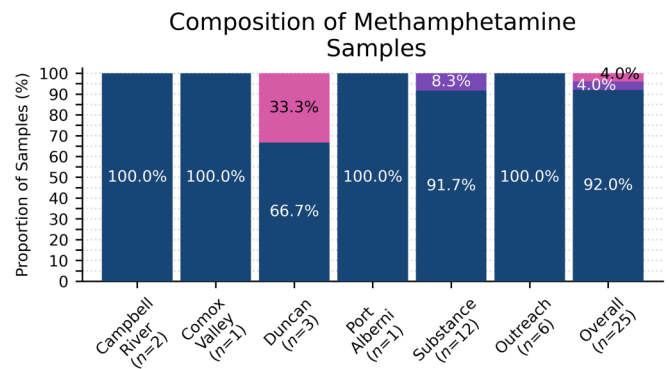
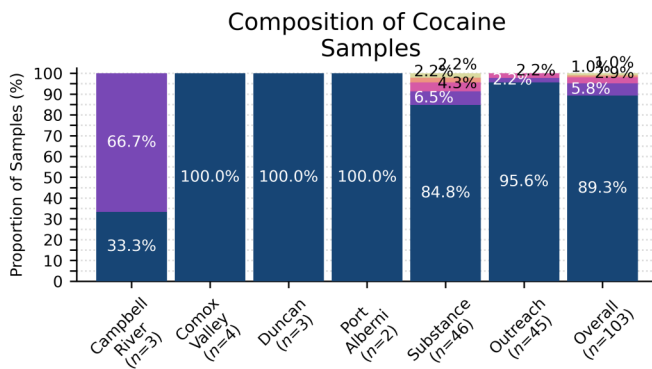
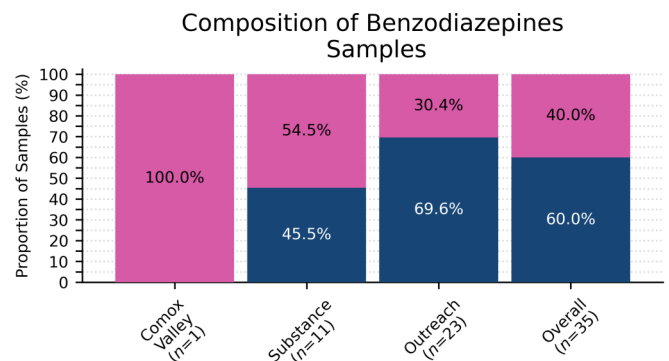
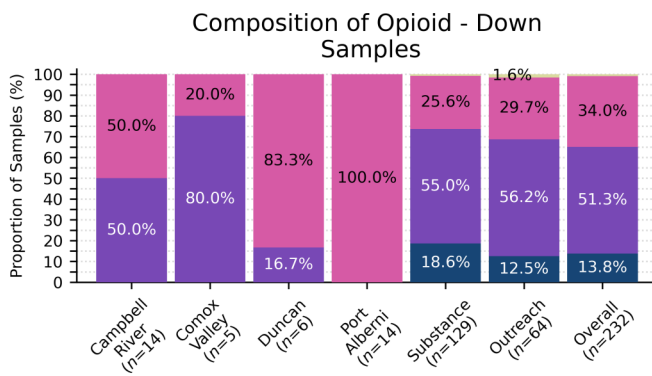
Expected Substance Class	Campbell River	Comox Valley	Duncan	Port Alberni	Port Hardy	Substance	Outreach	Overall
Opioid - Down	14	5	6	14	0	129	64	232
MDMA	0	3	3	0	0	47	51	104
Cocaine	3	4	3	2	0	46	45	103
Dissociatives	0	1	0	0	0	17	45	63
Stimulants - Other	0	4	0	0	0	8	34	46
Psychedelics	0	0	0	0	0	8	31	39
Opioid - Other	0	3	1	0	0	17	18	39
Benzodiazepines	0	1	0	0	0	11	23	35
Methamphetamine	2	1	3	1	0	12	6	25
Other categories	0	2	1	0	0	8	18	29
Unknown	1	1	5	2	0	8	31	48
<b>Total</b>	<b>20</b>	<b>25</b>	<b>22</b>	<b>19</b>	<b>0</b>	<b>311</b>	<b>366</b>	<b>763</b>

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## What did we find?

We checked each sample to determine what active compounds and cutting agents were present. While a majority of samples contained the expected active drug, we also detected a number of other notable compounds that February cause unexpected effects. The figures below illustrate the proportions and numbers of samples checked in each drug category, separated by collection location/method, colour coded by their composition. **Dark Blue** groups samples that were “as expected” with no other notable compounds *detected*, **Purple** groups samples that contained the expected drug *and* other unexpected active(s), **Magenta** groups samples that only contained unexpected active(s) (the expected drug was not found), **Salmon** groups samples where we were unable to determine the composition, and **Lime** displays samples where no active compounds were detected.



■ Expected Active Only     
 ■ Unexpected Active(s) Only     
 ■ Inactive(s) Only  
■ Expected + Unexpected Actives     
 ■ Unknown composition

# Substance Drug Checking

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## What did we find?

Expanding on the figures shown on the previous page, for each drug category and collection location/model, we list the number of samples that contained the expected active and/or other notable components. Samples where no detected actives have been excluded for brevity.

Opioid - Down	Campbell River	Comox Valley	Duncan	Substance	Outreach			
<b>Expected Active Only</b>				24	8			
Fentanyl				24	8			
<b>Expected* + Unexpected Active(s)</b>		7	4	1	71	36		
Acetylcodeine				4	11			
Acetylmorphine [MAM, 6-MAM]				1	12	19		
Benzodiazepine (unknown type)				8	1			
Bromazolam				1	4	14	4	
Carfentanil				1				
Cocaine HCl				1	2			
Desalkylgidazepam				6	1			
Ethylbromazolam				8				
Ethylflualprazolam				2	1			
Fentanyl				6	4	1	69	30
Flubromazepam				1				
Fluorofentanyl				7	1	1	31	10
Heroin				1		17	20	
Medetomidine				4	2	2		
Methamphetamine						3	2	
Morphine							2	
Phenacetin						1		
Phenazolam						12	4	
Procaine							1	
Xylazine						1		
ortho-Methyl fentanyl						2		

*Expected Opioid - Down data continued on next page*

*Data are preliminary. There were missing data for some samples. Instruments may not be able to detect all ingredients and certainty of interpretations may vary. Multiple substances may be present in one sample and substances may be present in trace concentrations. \*Expected active component. <sup>1</sup> "Benzodiazepine (unknown type)" results are based on a positive strip test and are unconfirmed by paper spray.*

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<b>Opioid - Down (Continued)</b>	<b>Campbell River</b>	<b>Comox Valley</b>	<b>Duncan</b>	<b>Port Alberni</b>	<b>Substance</b>	<b>Outreach</b>
<b>Unexpected Active(s) Only</b>	<b>7</b>	<b>1</b>	<b>5</b>	<b>14</b>	<b>33</b>	<b>19</b>
3-hydroxy Desalkylgizapam					2	
Acetaminophen [Tylenol]					1	
Acetylcodeine					1	1
Acetylmorphine [MAM, 6-MAM]					1	1
Benzodiazepine (unknown type)	3			4		1
Bromazolam	1	1		1	3	
Carfentanil				3	1	
Cocaine HCl						2
Codeine [T3's / T4's]					1	
Desalkylgizapam	1	1			5	
Ethylbromazolam			1		3	3
Ethylflualprazolam				5		
Fentanyl		1				
Fentanyl or analogue			2		1	
Fluorofentanyl	7	1	1	13	30	19
Furanyl UF-17					1	
Heroin					1	1
Medetomidine		1	1	1	5	
Methamphetamine				1	1	
Morphine					1	
Nitazene (unknown type)					1	
Phenacetin				1		1
Phenazolam			4		2	

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MDMA	Comox Valley	Duncan	Substance	Outreach
<b>Expected Active Only</b>	<b>3</b>	<b>2</b>	<b>44</b>	<b>47</b>
MDA			2	5
MDMA	3	2	42	43
<b>Expected* + Unexpected Active(s)</b>		<b>1</b>		<b>3</b>
MDMA* + MDA				1
MDMA* + Methamphetamine				1
MDA* + Unknown				1
MDMA* + Benzodiazepine (unknown type), Fentanyl or analogue		1		
<b>Unexpected Active(s) Only</b>			<b>2</b>	<b>1</b>
MDA				1
MDMA			1	
Sildenafil [Viagra]			1	

Cocaine	Campbell River	Comox Valley	Duncan	Port Alberni	Substance	Outreach
<b>Expected Active Only</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>39</b>	<b>43</b>
Cocaine Base	1		2	2	6	3
Cocaine HCl		4	1		33	40
<b>Expected* + Unexpected Active(s)</b>	<b>2</b>				<b>3</b>	<b>1</b>
Cocaine Base* + Fentanyl or analogue					2	
Cocaine HCl* + Levamisole					1	1
Cocaine Base* + Phenacetin	2					
<b>Unexpected Active(s) Only</b>					<b>2</b>	<b>1</b>
Fluorofentanyl					1	1
MDMA					1	
<b>Unknown Composition</b>					<b>1</b>	
Unknown					1	

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<b>Dissociatives</b>	<b>Comox Valley</b>	<b>Substance</b>	<b>Outreach</b>
<b>Expected Active Only</b>	<b>1</b>	<b>16</b>	<b>37</b>
3-Me-PCP			1
Deschloroketamine [DCK]			1
Ketamine	1	16	35
<b>Unexpected Active(s) Only</b>		<b>1</b>	<b>5</b>
2-fluoro-2-oxo-PCE [2F-NENDCK, CanKet]			2
Fluorexetamine [FXE]		1	
Fluorodeschloroketamine			1
MDMA			2
MMMP			1
<b>Unknown Composition</b>			<b>2</b>
Unknown			2

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<b>Benzodiazepines</b>	<b>Comox Valley</b>	<b>Substance</b>	<b>Outreach</b>
<b>Expected Active Only</b>		<b>5</b>	<b>16</b>
Alprazolam [Xanax]		1	5
Bromazepam			1
Clonazepam [Klonopin]			3
Desalkylgidazepam			1
Diazepam [Valium]			4
Ethylbromazolam		1	1
Ethylflualprazolam		2	
Etizolam			1
Lorazepam [Ativan]		1	
<b>Unexpected Active(s) Only</b>		<b>1</b>	<b>6</b>
3-hydroxy Desalkylgidazepam		1	
Benzodiazepine (unknown type)			1
Clonazepam [Klonopin]		1	1
Desalkylgidazepam		1	1
Ethylbromazolam		1	1
Ethylflualprazolam		1	
Etizolam			1
AMB-FUBINACA			1
Flualprazolam		1	
Fluorofentanyl		1	1
Phenazolam	1	2	1

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Opioid - Other	Comox Valley	Duncan	Substance	Outreach
<b>Expected Active Only</b>	<b>2</b>		<b>11</b>	<b>12</b>
Acetaminophen [Tylenol]			1	
Hydromorphone [Dilaudid]	1		8	7
Oxycodone [Oxycontin]			3	5
Tramadol	1			
<b>Expected* + Unexpected Active(s)</b>	<b>1</b>		<b>1</b>	<b>1</b>
Oxycodone [Oxycontin], Acetaminophen [Tylenol]* + Lorazepam [Ativan]			1	
SR-17018* + Unknown				1
Codeine [T3's / T4's]* + Acetaminophen [Tylenol]	1			
<b>Unexpected Active(s) Only</b>		<b>1</b>	<b>2</b>	
Ethylflualprazolam			1	
Fentanyl		1	1	
<b>Unknown Composition</b>				<b>3</b>
Unknown				3

Methamphetamine	Campbell River	Comox Valley	Duncan	Port Alberni	Substance	Outreach
<b>Expected Active Only</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>11</b>	<b>6</b>
Methamphetamine	2	1	2	1	11	6
<b>Expected* + Unexpected Active(s)</b>					<b>1</b>	
Methamphetamine* + Fentanyl or analogue					1	
<b>Unexpected Active(s) Only</b>						
Benzodiazepine (unknown type)			1			
Fentanyl			1			

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<b>Psychedelics</b>	<b>Substance</b>	<b>Outreach</b>
<b>Expected Active Only</b>	<b>8</b>	<b>25</b>
2C-B	5	11
3C-P		2
4-HO-MET [Metocin, Colour]	1	1
4-PrO-MET		1
5-MeO-DiPT [Foxy]		1
5-MeO-MiPT [Moxy]		4
ALD-52	1	
Ketamine		1
LSD [acid]	1	2
MDMA		1
Mescaline		2
<b><i>Expected* + Unexpected Active(s)</i></b>		<b>4</b>
2C-B* + Cocaine HCl, Ketamine, MDA		1
2C-B* + Acetaminophen [Tylenol]		1
BOD* + 2C-E, Methallylescaline		1
2C-B* + Dimethylmethcathinone (2C-X Expected)		1
<b>Unexpected Active(s) Only</b>		<b>2</b>
4-AcO-MET		1
Tryptamine (unknown type)		1
Unknown		1

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Other	Comox Valley	Substance	Outreach
<b>Expected Active Only</b>	<b>1</b>	<b>11</b>	<b>34</b>
3-MMC [Metaphedrone]			5
4-MMC [Mephedrone]		4	13
4F-MPH			1
5-APB		1	
6-APB			1
Amphetamine		1	4
Bromantane		1	
Diclofenac [Voltaren]			1
GHB	1		
MDMA			2
Methenolone enanthate			1
Methylphenidate [Ritalin]		1	
Nandrolone decanoate			1
Omberacetam [Noopept]		1	
Pramiracetam		1	
Sildenafil [Viagra]			1
Tadalafil [Cialis]			4
Testosterone enanthate			1
Trenbolone enanthate			1
Zopiclone		1	
<b>Expected* + Unexpected Active(s)</b>	<b>1</b>	<b>1</b>	<b>3</b>
Sildenafil [Viagra]* + Acetaminophen [Tylenol]			
GHB* + GBL			
4-MMC [Mephedrone]* + Methamphetamine			
4-MMC [Mephedrone]* + Unknown			
Testosterone propionate* + Testosterone enanthate, Testosterone phenylpropionate			

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<b>Other (Continued)</b>	<b>Comox Valley</b>	<b>Substance</b>	<b>Outreach</b>
<b>Unexpected Active(s) Only</b>	4	1	10
2-FMA			1
2-MMC	1		1
4-MMC [Mephedrone]	2		
Acetaminophen [Tylenol]			1
Cathinone (unknown type)	1		
LSD [acid]			1
MDMA			1
Methamphetamine			6
Trenbolone enanthate		1	

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Unknown	Campbell River	Comox Valley	Duncan	Port Alberni	Substance	Outreach
<b>Unexpected Active(s) Only</b>		<b>1</b>	<b>3</b>	<b>2</b>	<b>6</b>	<b>29</b>
1,4-Butanediol						1
4-CMC [Clephedrone]						1
4-MMC [Mephedrone]						2
Acetylmorphine [MAM, 6-MAM]						4
Alprazolam [Xanax]						2
Benzodiazepine (unknown type)					1	1
Cocaine Base			1			
Cocaine HCl			1		2	3
Cychlorphine [N-Propionitrile chlorphine]						1
Diphenhydramine [Benadryl]		1				
Ethylbromazolam			1			
Ethylflualprazolam						1
Fentanyl						2
Fentanyl or analogue				1	1	
Fluorofentanyl			1	1	1	2
GHB						1
Heroin						4
Ketamine						1
MDMA						3
Medetomidine			1			
Methamphetamine						1
Methylphenidate [Ritalin]						1
Opium						1
Phenazolam						3
Pramiracetam					1	
Sildenafil [Viagra]						2
Tramadol					1	
Unknown				1		
<b>Unknown Composition</b>	<b>1</b>					
Unknown	1					

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## Quantification

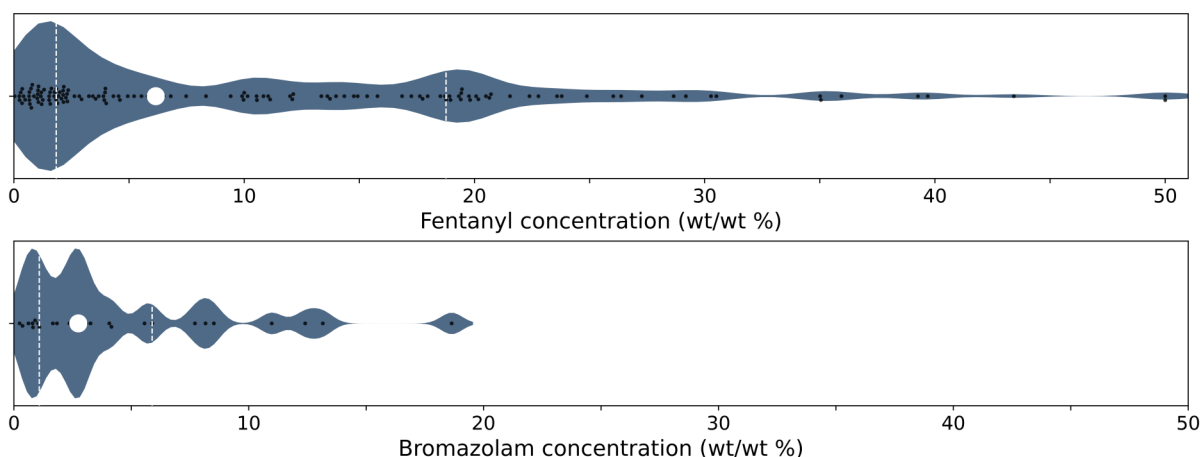
Using paper spray mass spectrometry (PS-MS) data, we were able to quantify low concentration compounds. These aggregate values are *inclusive to all expected drug categories* in which the active drugs are found. Weight percentage is reported below. "IQR" is the interquartile range: the concentration range that contains half of the quantified samples.

Compound	# Quant.	Median	Min	Max	IQR
Fentanyl	141	6.0%	<0.1%	>50.0%*	1.8% - 18.7%
Fluorofentanyl	110	7.1%	0.3%	>50.0%*	2.1% - 13.1%
Heroin	40	2.0%	0.2%	>50.0%*	1.0% - 7.1%
Acetylmorphine [MAM, 6-MAM]	34	0.9%	0.2%	>50.0%*	0.5% - 2.8%
Bromazolam	29	2.7%	0.2%	18.6%	1.1% - 5.9%
Phenazolam	28	1.6%	<0.1%	12.0%	0.6% - 3.3%
Ethylbromazolam	19	2.4%	0.6%	5.1%	1.4% - 3.4%
Medetomidine	17	0.8%	0.3%	6.2%	0.4% - 1.6%
Acetylcodeine	17	1.3%	0.2%	4.1%	0.2% - 2.0%
Desalkylgidazepam	16	0.9%	0.2%	45.8%	0.4% - 1.4%
Hydromorphone [Dilaudid]	14	3.8%	2.2%	10.3%	3.1% - 4.8%
Oxycodone [Oxycontin]	8	11.3%	0.9%	>50.0%*	4.5% - 20.7%
Carfentanil	5	0.3%	0.1%	5.7%	0.2% - 3.9%

\*There is a maximum concentration limit that the PS-MS can quantify for each compound of interest. If a sample contains a higher percentage of a compound than the PS-MS's limits, then only the upper limit will be reported. Not all samples can be quantified.

## Distribution of Fentanyl and Bromazolam Concentrations

The concentrations of fentanyl and bromazolam for every sample quantified across *all expected drug categories and service models* are illustrated below to highlight the variability in the unregulated drug market. **Black Dots** are individual samples, the large **white dot** marks the median concentration, the **dashed white lines** bound half of the quantified samples (IQR), and the **width** of the coloured region is proportional to the number of samples in a concentration range.



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## Opioid - Down Quantification by Service Model

Here we examine the regional variability in the unregulated market. The table below expands on the data presented on the previous page and focuses only on select actives within *expected opioid-down samples*, separated by collection site. Weight percentage is reported; "IQR" is the interquartile range: the range that contains half of the quantified samples.

Service Model	Compound	# Quant.	Median	Min	Max	IQR
<b>Campbell River</b> 14 total down samples 64% (9/14) benzo-positive	Bromazolam	1		4.1%		
	Fentanyl	5	6.0%	1.8%	14.4%	5.5% - 6.8%
	Fluorofentanyl	6	8.6%	3.9%	14.0%	5.9% - 10.7%
	Medetomidine	4	0.8%	0.5%	1.6%	0.5% - 1.2%
<b>Comox Valley</b> 5 total down samples 100% (5/5) benzo-positive	Bromazolam	5	2.5%	1.1%	18.6%	1.8% - 13.1%
	Fentanyl	5	2.8%	0.7%	27.3%	1.8% - 26.0%
	Fluorofentanyl	2		0.5%	6.9%	
	Medetomidine	3	2.4%	0.4%	3.0%	
<b>Duncan</b> 6 total down samples 100% (6/6) benzo-positive	Bromazolam	1		0.8%		
	Ethylbromazolam	1		5.0%		
	Fentanyl	1		1.6%		
	Fluorofentanyl	2		0.6%	7.1%	
	Medetomidine	1		0.4%		
<b>Port Alberni</b> 14 total down samples 64% (9/14) benzo-positive	Bromazolam	1		0.4%		
	Carfentanil	3	0.3%	0.2%	3.9%	
	Fluorofentanyl	7	10.2%	0.6%	22.0%	3.1% - 10.8%
	Medetomidine	1		0.8%		
<b>Substance</b> 129 total down samples 39% (50/129) benzo-positive	Bromazolam	17	3.1%	0.8%	12.4%	2.6% - 5.9%
	Carfentanil	2		0.1%	5.7%	
	Ethylbromazolam	11	2.5%	0.6%	5.1%	1.4% - 3.2%
	Fentanyl	91	4.0%	<0.1%	>50.0%*	1.8% - 18.1%
	Fluorofentanyl	59	5.2%	0.3%	>50.0%*	2.2% - 11.5%
	Medetomidine	7	0.9%	0.3%	6.2%	0.4% - 1.9%
	Xylazine	1		0.8%		
	ortho-Methyl fentanyl	2		0.7%	0.8%	
<b>Outreach</b> 64 total down samples 19% (12/64) benzo-positive	Bromazolam	4	0.8%	0.2%	8.2%	0.5% - 2.7%
	Ethylbromazolam	3	1.4%	0.9%	3.6%	
	Fentanyl	35	12.1%	0.2%	>50.0%*	5.7% - 20.1%
	Fluorofentanyl	28	10.3%	0.7%	>50.0%*	4.3% - 14.1%

\*There is a maximum concentration limit that the PS-MS can quantify for each compound of interest. If a sample contains a higher percentage of a compound than the PS-MS's limits, then only the upper limit will be reported. Not all samples can be quantified.

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## Additional Services

At Substance we provide access to other services in addition to drug checking. These include but are not limited to access to harm reduction supplies (bubble pipes, naloxone, test strip kits, etc.), general support, referrals to substance use programs and to other agencies. During the month of February, our staff handled 806 of these interactions, in addition to, checking 763 samples.

Substance Drug Checking is based out of the University of Victoria and operates community-wide drug checking services within Campbell River, the Comox Valley, Duncan, Port Alberni, Port Hardy, and Victoria, BC. We are continuing to offer drug checking services in response to the dual public health emergencies, and exploring new ways to better reach those who February benefit from this service. We have partnered with Dr. Chris Gill and the team at Vancouver Island University to improve detection and reporting using their methods for the paper spray - mass spectrometer.

See the [blog portion](#) of our website to view our more detailed interpretations of our reports.

*Our project works on Indigenous land. We provide drug checking, harm reduction education and support across many territories on what is colonially known as 'Vancouver Island.' We also act as a resource for these services across the province colonially known as 'British Columbia.' We honour and offer respect to many nations for their stewardship, care and leadership on these lands.*

*Our project originated on the territories of the lək̓ʷəŋən speaking peoples, including the Songhees and Xwsepsum (Esquimalt) Nations, and the W̱SÁNEĆ (Saanich) Nations on whose land the University of Victoria is located. Some of the territories we are honoured to work across specifically include: Halalt, Lyackson, Meluxulh (Malahat), Puneluxutth', Quw'utsun, Stz-uminus, and Ts'uubaa-asatx; Hupačasath and Tseshaht; K'ómoks; and Laich-kwil-tach.*

*We acknowledge the inextricable links between research, colonization and racism against Indigenous peoples, which continue to this date. Ending the violence faced by people who use drugs cannot be achieved without actively working on decolonization.*

For more information please visit: [substance.uvic.ca](https://substance.uvic.ca)

## We gratefully acknowledge our partners on this project

