



Rapid Analysis of Drugs (RAD) Project

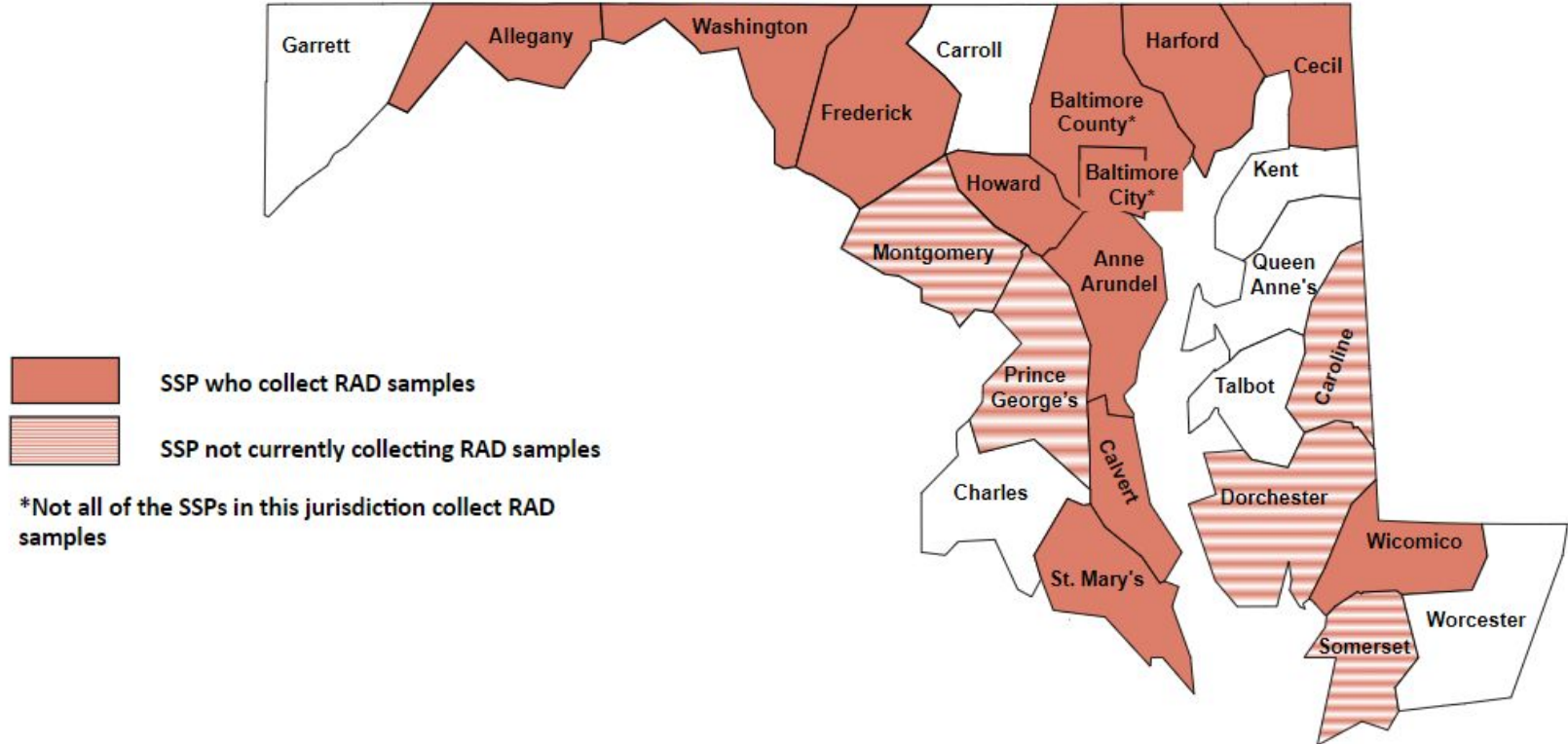
September 18th, 2024

RAD Data Disclaimers

- Convenience Sampling -
 - RAD is a completely voluntary program that Maryland SSP participants can choose to engage in
 - Not all MD jurisdictions have an SSP that participate in RAD
- No personally identifiable data is collected, therefore we do not know how many participants are accounted for in the sample size

RAD gives us some indication of the near real time drug market in Maryland, but it should not be considered as fully representative.

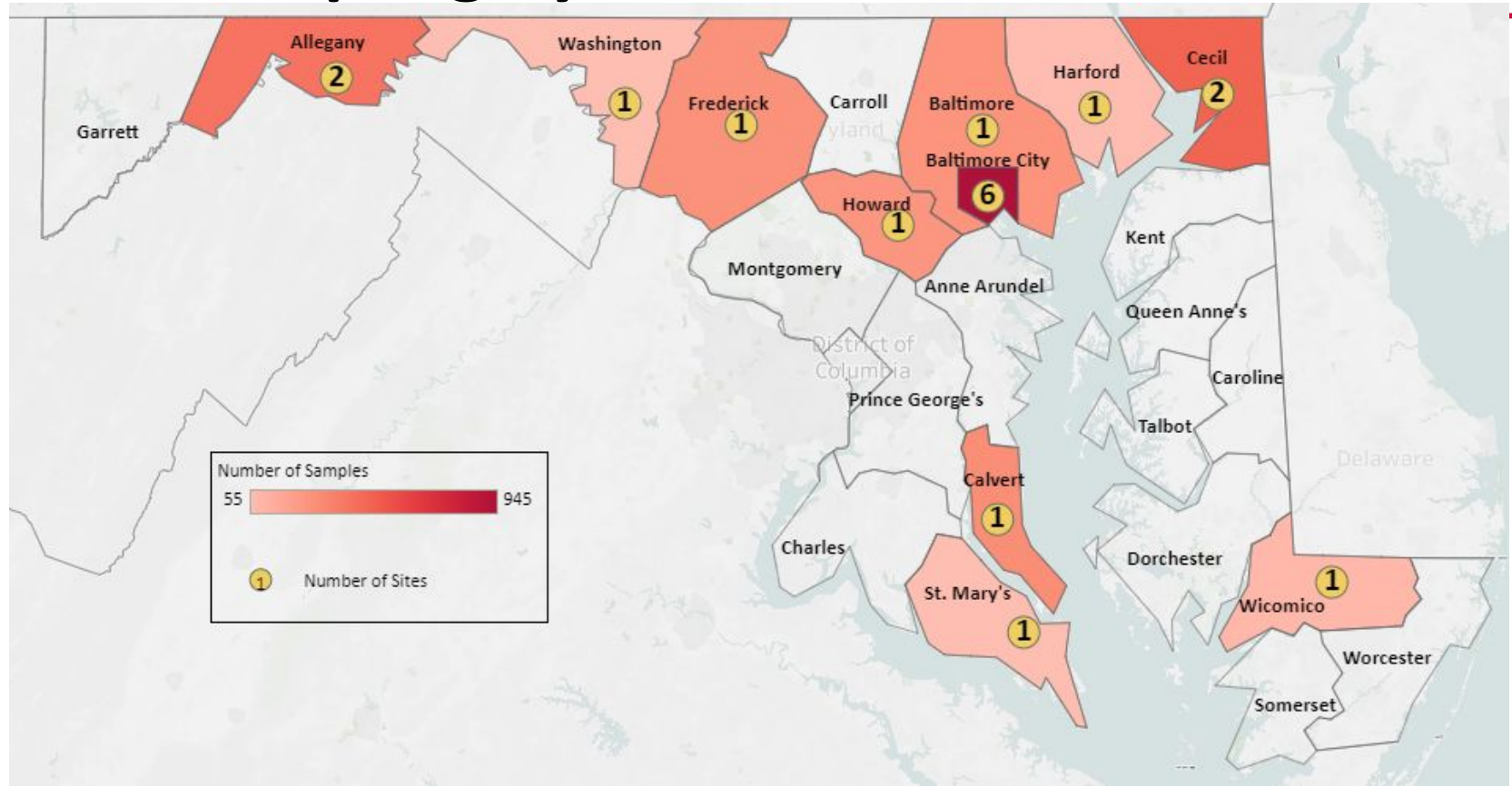
Participating Syringe Service Programs



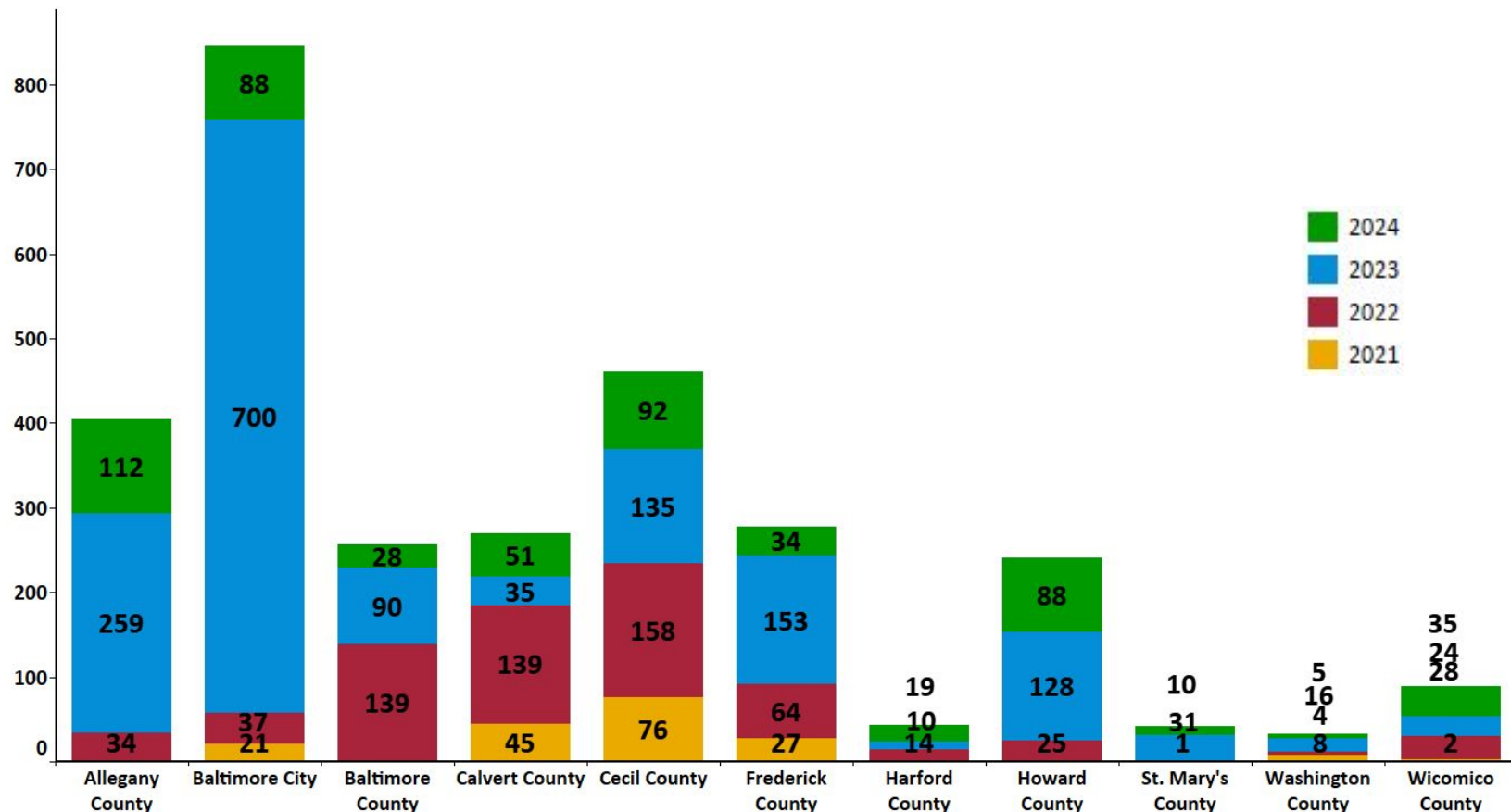
Samples Collected

- Sample Collection began in October 2021 and is continuing
- As of the end of FY24 2,966 samples have been tested.
- 17 of the 25 SSPs in Maryland collect samples.
 - Covering 12 jurisdictions

RAD Sampling by Jurisdiction

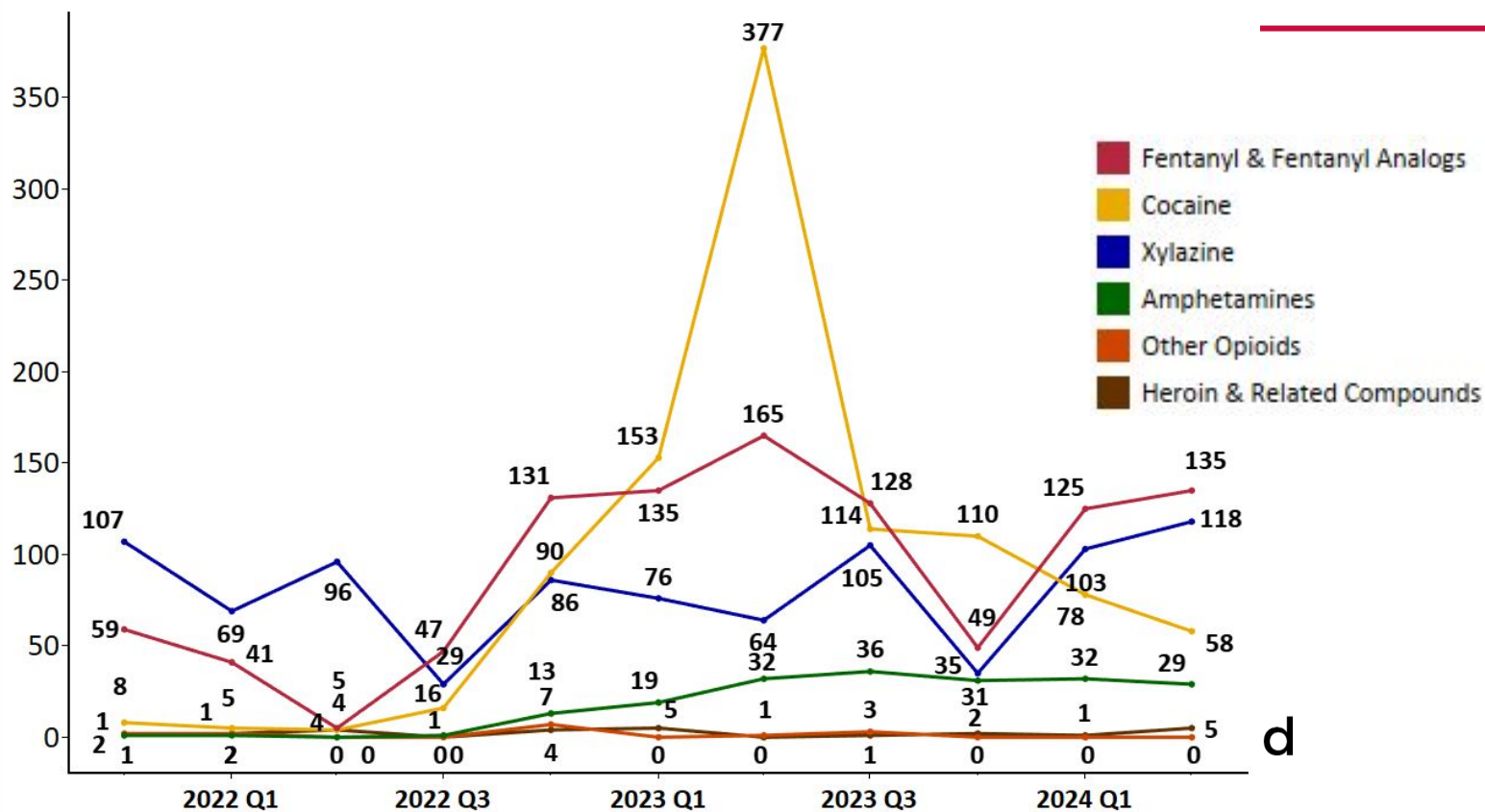


RAD Sampling by Jurisdiction, OCT 2021- JUNE 2024



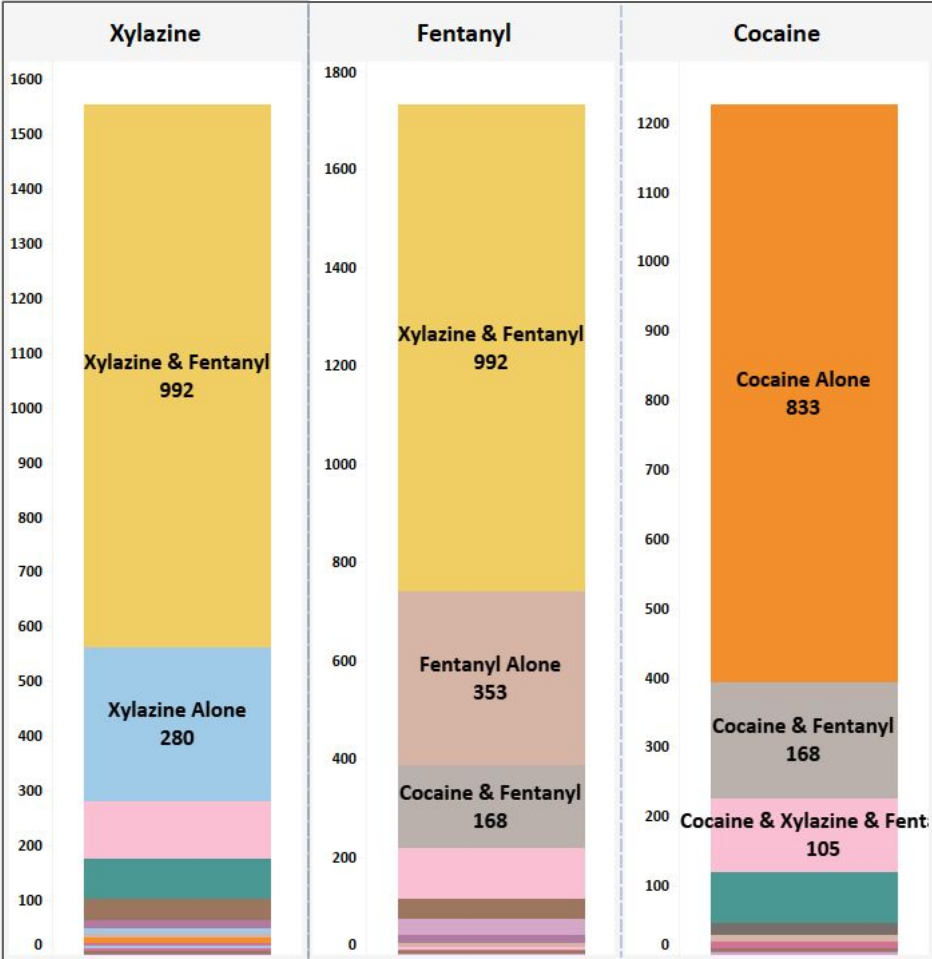
Note: Data is preliminary and subject to change.

RAD Compounds, OCT 2021- JUNE 2024

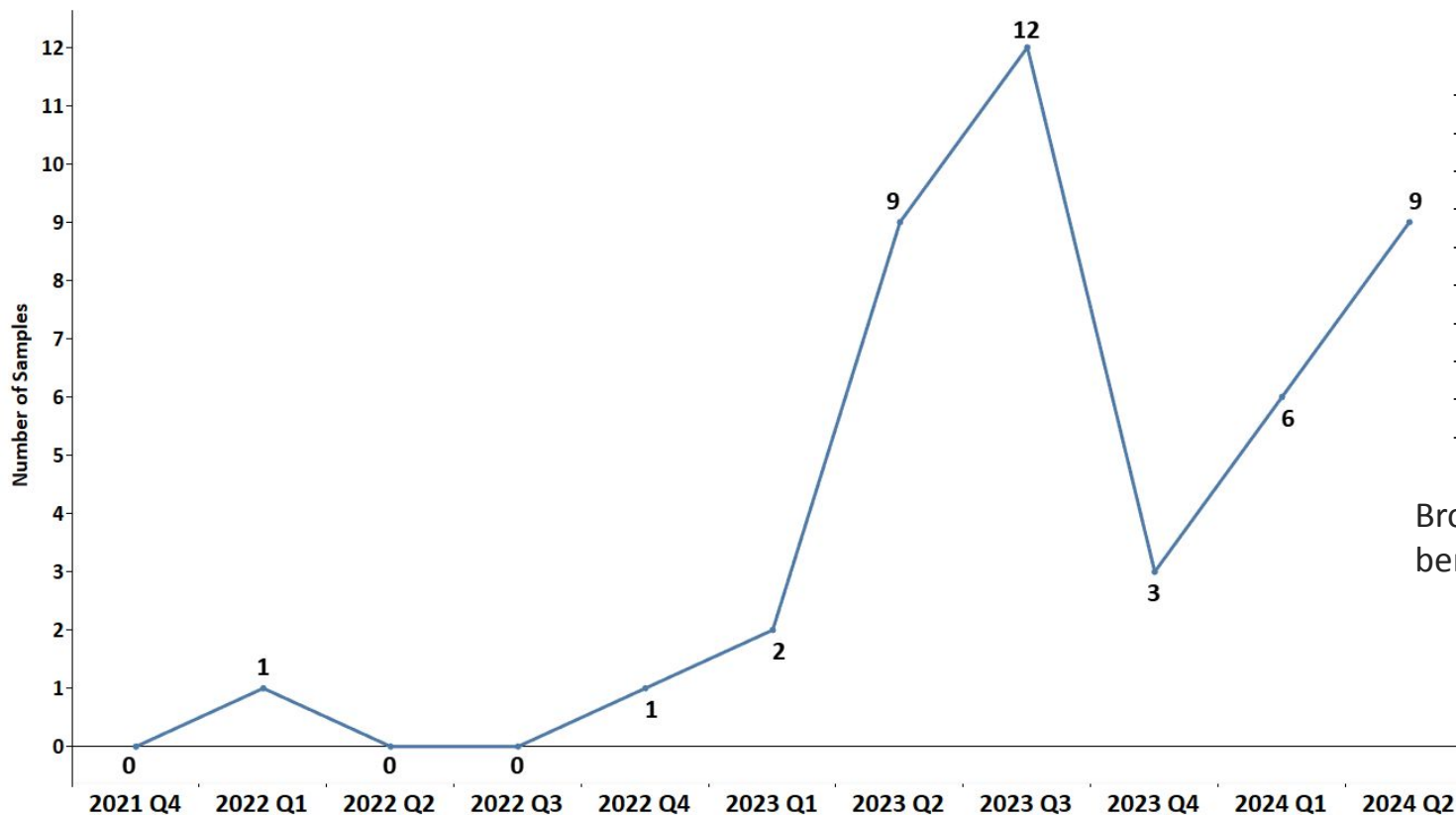


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Polysubstance in RAD Samples



Bromazepam, OCT 2021- JUNE 2024

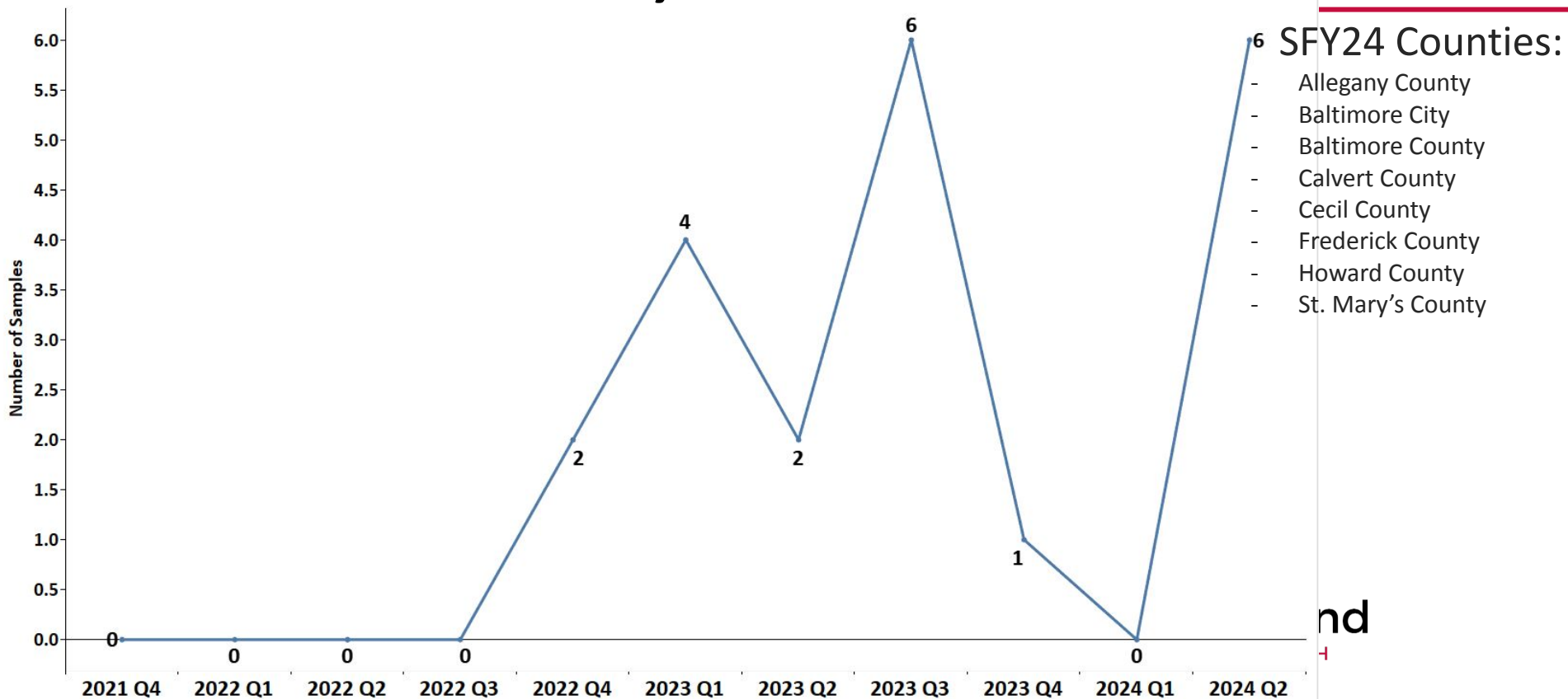


SFY24 Counties:

- Allegany County
- Baltimore City
- Baltimore County
- Calvert County
- Cecil County
- Frederick County
- Harford County
- Howard County
- Washington County
- Wicomico County

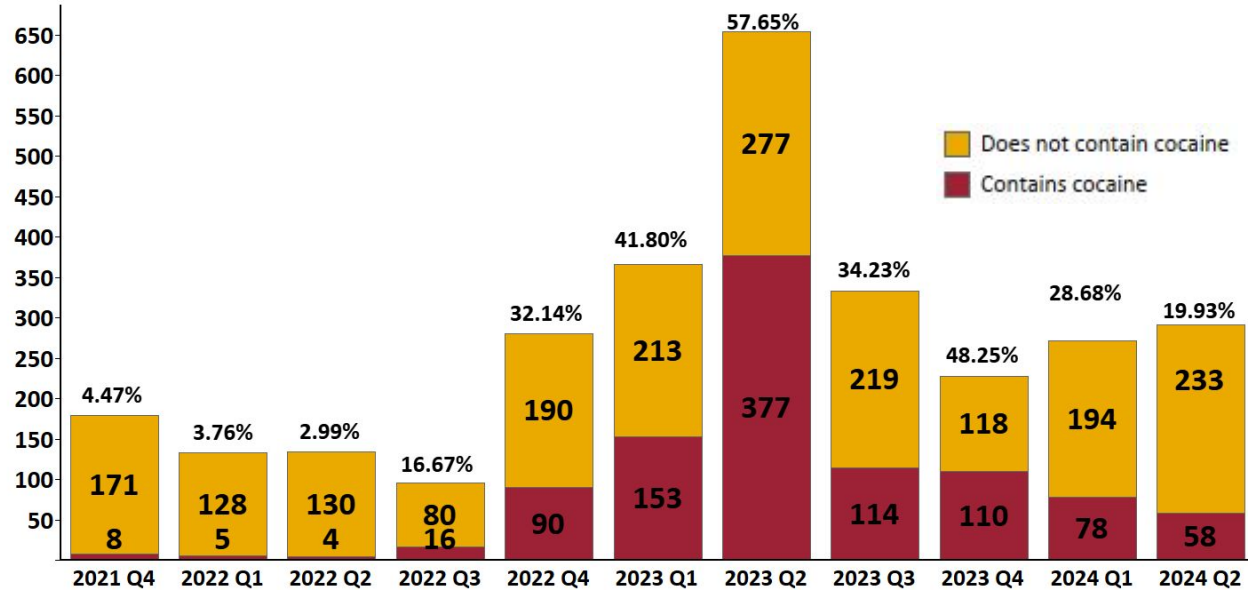
Bromazepam is a type of benzodiazepine (sedative)

Medetomidine, OCT 2021- JUNE 2024



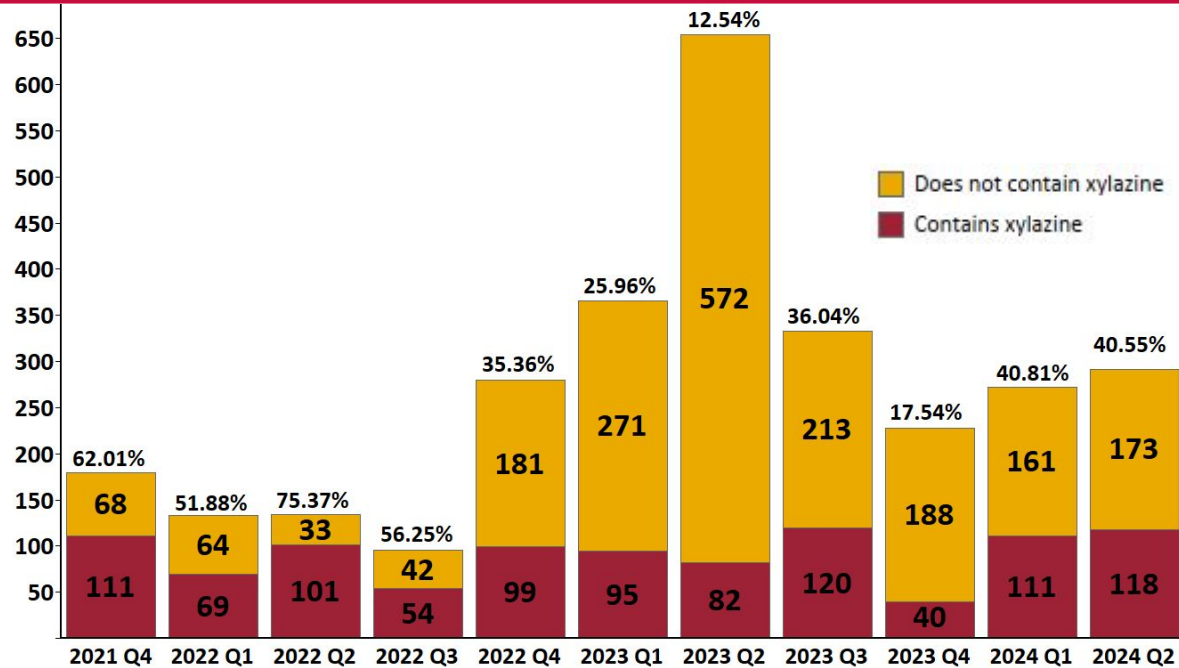
Samples Containing Cocaine

- 34.17% of samples tested contained cocaine.
- In FY24 (July 2023 - June 2024) there were a total of 360 samples that contained cocaine.
- 13.5% decrease from the previous fiscal year(FY23)



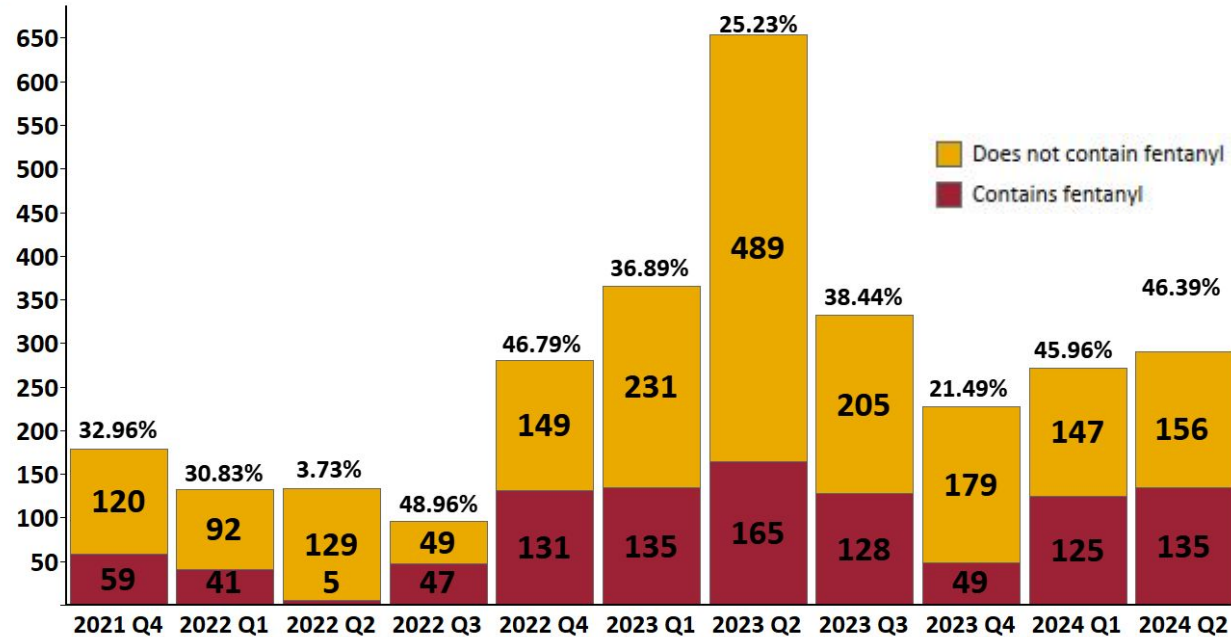
Samples Containing Xylazine

- 29.95% of samples tested contained Xylazine.
- In FY24 (July 2023 - June 2024) there were a total of 361 samples that contained xylazine.
- 13.88% increase from the previous fiscal year(FY23)



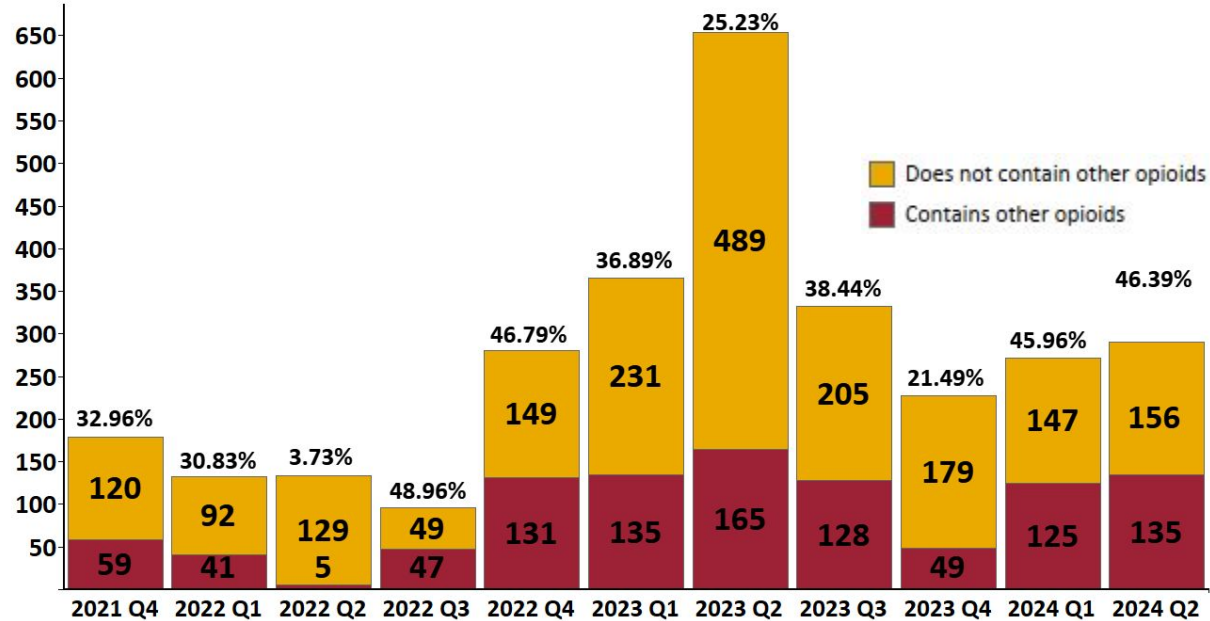
Samples Containing Fentanyl & Fentanyl Analogs

- 34.4% of samples tested contained fentanyl.
- In FY24 (July 2023 - June 2024) there were a total of 437 samples that contained fentanyl.
- 4.67% increase from the previous fiscal year(FY23)



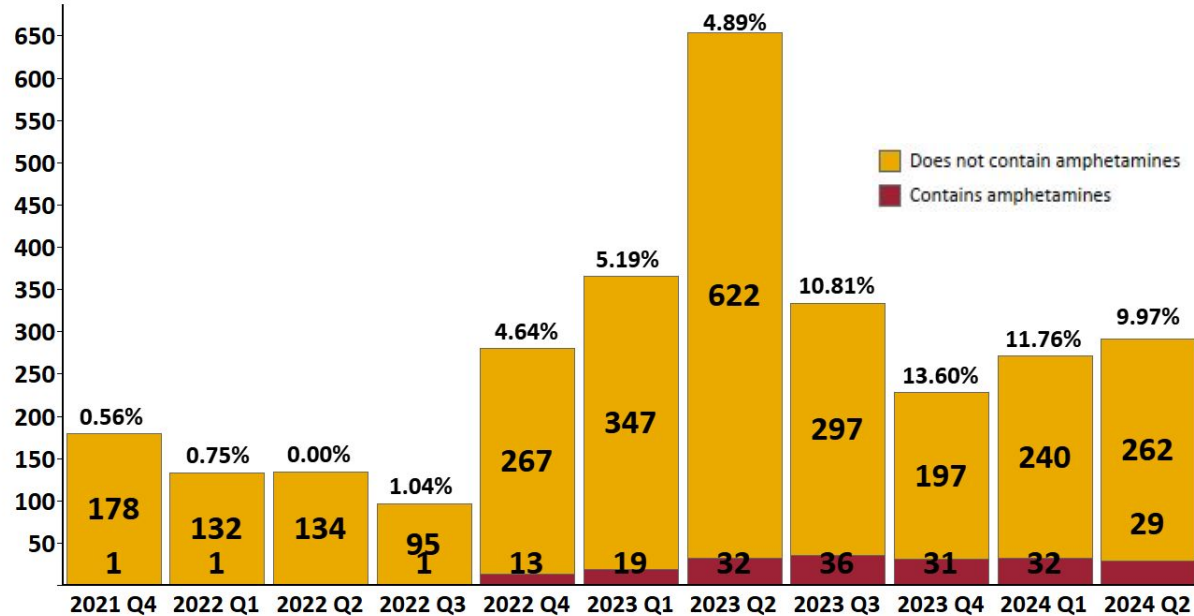
Samples Containing Other Opioids

- 0.51% of samples tested contained other opioids.
- In FY24 (July 2023 - June 2024) there were a total of 3 samples that contained other opioids.
- 0.3% increase from the previous fiscal year(FY23)



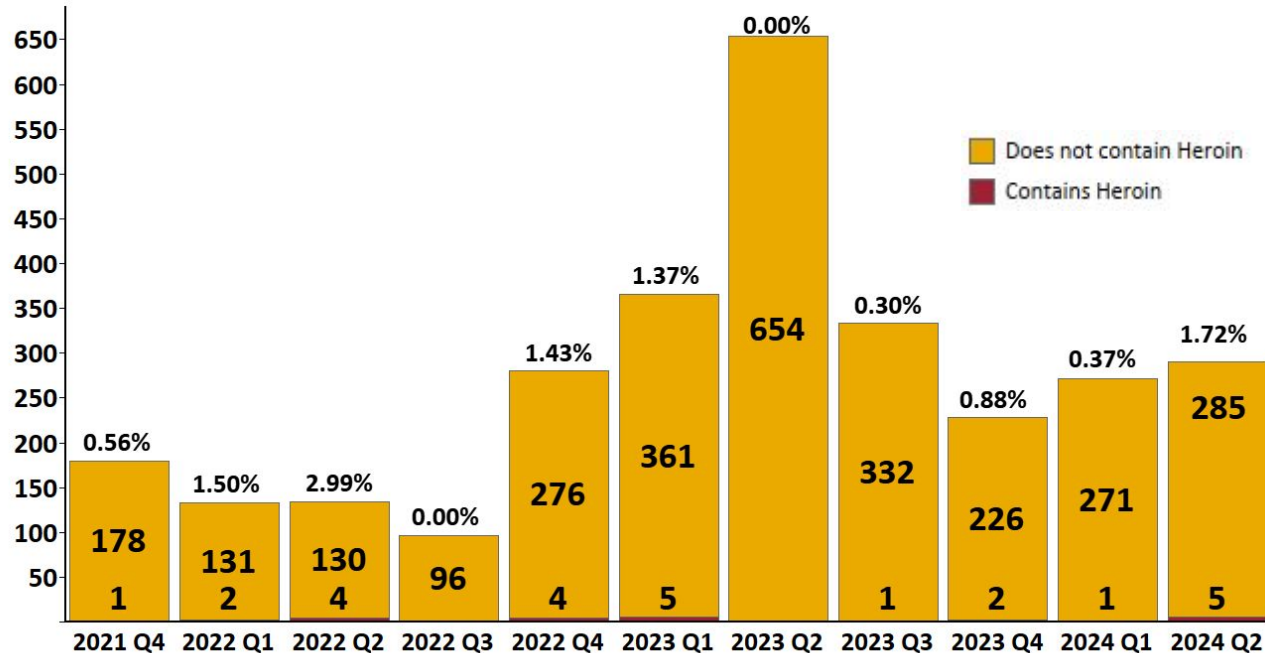
Samples Containing Amphetamines

- 6.58% of samples tested contained amphetamines.
- In FY24 (July 2023 - June 2024) there were a total of 128 samples that contained amphetamines.
- 6.74% increase from the previous fiscal year(FY23)

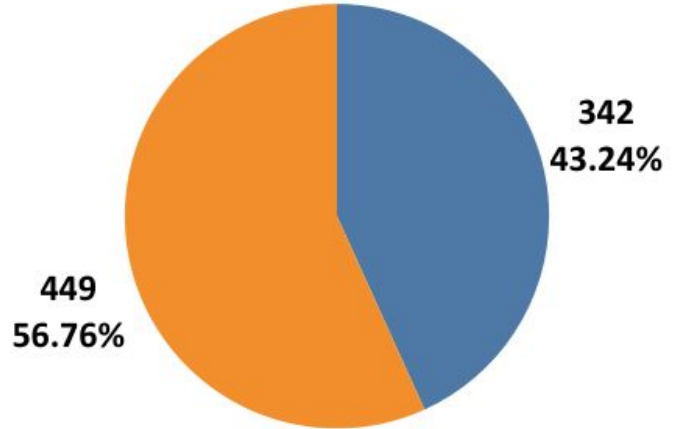


Samples Containing Heroin & Related Compounds

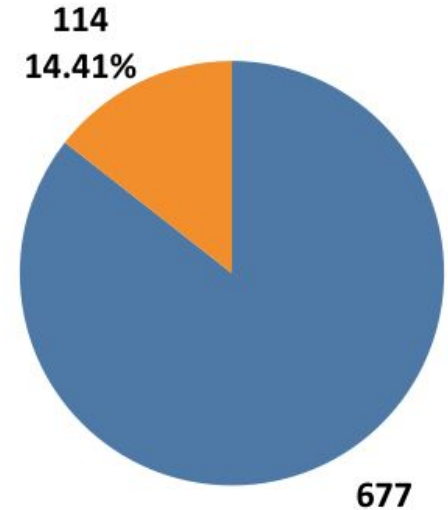
- 0.84% of samples tested contained heroin.
- In FY24 (July 2023 - June 2024) there were a total of 9 samples that contained heroin.
- 0.16% increase from the previous fiscal year(FY23)



Intent vs. Actual July 2023 - June 2024



At least 1 intended drug
■ Does not contain at least 1 intended drug
■ Contains at least 1 intended drug



All intended drugs
■ Does not contain all intended drugs
■ Contains all intended drugs

Emerging Trends Discussion

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (BTMPS)

- BTMPS has been seen emerging in the drug markets around the US.
- BTMPS is a hindered amine light stabilizer used in plastics manufacturing, as an adhesive, and as a sealant.
- NIST put out a report [available here](#), specifically focusing on the LA and Philly outbreaks.
- Maryland currently has 2 confirmed samples containing BTMPS

Bromazolam, Medetomidine, and Carfentanil

- We are continuing to use RAD to monitor Bromazolam, Medetomidine, and Carfentanil
 - All of these compounds have had spikes in neighboring states.
 - RAD continue to see low but steadily growing numbers of Bromazolam and Medetomidine.
 - Carfentanil has not been seen in RAD samples
- All of these substances are often seen in combination of a opioid (mainly fentanyl) and naloxone should still be administered.