



Blood Drug Analysis

Test No. 23-5661 Summary Report

Each sample set contained blood samples from three individual cases with unique case scenarios. Participants were requested to analyze the blood samples and report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and the methods used. Data were returned from 135 participants and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each sample set contained blood samples from three cases, each with an individual case scenario. Each case sample was comprised of two grey-top vials containing human blood. Participants were asked to analyze the blood samples and report the presence of any drugs/metabolites and quantitative data obtained (including uncertainty).

SAMPLE PREPARATION: A stock solution of each drug was used to spike specific items. These solutions were obtained in sealed ampoules and were not opened until needed for production. Items were prepared at separate times using the following procedure.

ITEMS 1, 2, and 3 (PREPARATION): Item preparation consisted of adding a predetermined amount of drug stock solution to human whole blood and mixing thoroughly. This mixture was then pipetted into each of the pre-labeled vials, which contained Potassium Oxalate and Sodium Fluoride. The vials were sealed and inverted multiple times to mix the preservatives in the vials with the blood solution. All vials were placed in a refrigerator immediately after production and stored there until the sample sets were prepared.

VERIFICATION: The laboratories that conducted predistribution testing reported results for all three items through either screening methods and/or confirmatory methods that correlated with production data and/or consensus responses.

SAMPLE SET ASSEMBLY: Each sample set contained two vials of each of the three items and placed into a Department of Transportation regulated shipping container. The sample sets were then returned to the refrigerator until shipment.

<u>Item 1 Drug (Concentration)</u>	<u>Item 2 Drug (Concentration)</u>	<u>Item 3 Drug (Concentration)</u>
Diazepam (700 ng/mL)	d-Methamphetamine (2,000 ng/mL)	Methadone (11.6 ng/mL*)
THC-COOH (10 ng/mL)	Methadone (9.3 ng/mL*)	
Methadone (9.8 ng/mL*)		

Please note that the preparation concentration is the value used for calculations during the test preparation phase and may not necessarily represent the final concentration of the samples. It is advised to view the Grand Mean statistics available in this Summary Report as well as wait for the Individual Reports before evaluating performance.

*This analyte were not added to the sample during production by CTS, but were present in the original blood matrix. Quantitative results were reported for this analyte by at least 10 participants, the Grand Mean of those results is presented here.

Summary Comments

This test was designed to allow participants to assess their proficiency in the examination for the presence and concentration of drugs and/or metabolites in blood. The sample sets provided to participants contained blood samples from three individual cases with unique scenarios. Each case sample was comprised of two vials containing 10mL human blood (20mL total). Participants were requested to analyze the blood samples and report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and the methods used (Refer to the Manufacturer's Information for preparation details).

Methadone and its metabolites were not added by CTS to the blood matrix used to create Items 1-3 but were already present in the blood received by supplier.

Of the 134 participants who reported screening results for Item 1, 91 reported the presence of Cannabinoids, 77 reported the presence of Benzodiazepines, 70 reported the presence of Diazepam and 48 reported the presence of Methadone. Of the 126 participants who reported confirmatory results for Item 1, 123 reported the presence of Diazepam, 74 reported the presence of THC-COOH and 38 reported the presence of Methadone.

Of the 131 participants who reported screening results for Item 2, 106 reported the presence of d-Methamphetamine, 52 participants reported the presence of Amphetamines and 45 reported the presence of Methadone. Of the 122 participants who reported confirmatory results for Item 2, 122 reported the presence of d-Methamphetamine, and 38 reported the presence of Methadone.

Of the 131 participants who reported screening results for Item 3, 56 reported the presence of Methadone and 67 participants reported "no drugs/metabolites detected." Of the 90 participants who reported confirmatory results for Item 3, 43 reported the presence of Methadone and 43 participants reported "no drugs/metabolites detected."

For all three items, immunoassay was the most commonly reported screening method. For Items 1 and 3, LC/MS/MS was the most commonly reported confirmatory method used to analyze the samples. For Item 2, GC/MS and LC/MS/MS were the most commonly reported confirmatory method used to analyze the samples. For all three items, LC/MS/MS was the most commonly reported quantitation method used to analyze the samples.

If a participant indicated that the confirmatory quantitative result was a single determination and reported in ng/mL, the conclusive quantitative result was included in the raw data table. The raw data was used to calculate the grand mean and standard deviation for each item and are supplied to assist the participants and accrediting bodies in determining the acceptability of results. Participants with extreme data (± 3 STD from grand mean) have been marked with an "X" and their results were excluded from the calculations of the grand mean and standard deviation.

Statistical analysis performed on the raw data revealed 12 participants to have extreme data. One participant had extreme data for all three items, and two had extreme data for both Items 1 and 2. Of the remaining, six had extreme data for the Diazepam in Item 1 and three for the d-Methamphetamine in Item 2.

Screening Results - Item 1

TABLE 1A

Item Scenario:

Case 1: An 18 year-old male was stopped by police for drifting in between lanes. A Drug Recognition Expert arrived and noted that the individual was drowsy and confused. The result of a breath alcohol test was 0.00%. Blood was collected 30 minutes later.

Item Contents and Preparation Concentration: Diazepam 700 ng/mL
 THC-COOH 10 ng/mL
 Methadone 9.8 ng/mL*

*This value is the Grand Mean compiled by quantitative results by at least 10 participants (see Manufacturer's Information).

WebCode	Screening Results
26KJHW	Benzodiazepines, THC
2BCNF8	benzodiazepines, cannabinoids
2C2Y7Z	Diazepam, Methadone, EDDP
2KWWAP	cannabinoids, benzodiazepines
2PVNNY	Gabapentin, Desmethylvenlafaxine, Methadone, EDDP, Diazepam, THC-COOH
2RY3TY	Diazepam, Methadone, THC-COOH
33PF4F	Benzodiazepines: diazepam.
346LLQ	Benzodiazepines, THC
3CHL49	THC, Benzodiazepines
3KVYKX	gabapentin, desmethylvenlafaxine, EDDP, methadone, diazepam, thc-cooh
3LNB2D	No drugs detected utilizing screening methods.
47L9T4	Benzodiazepines, Methadone
48X3BP	Benzodiazepines - Diazepam, Cannabinoids - Delta-9 Carboxy THC (THC metabolite)
4AWKZQ	THC-COOH acetaminophen gabapentin desmethylvenlafaxine eddp methadone diazepam
4JU4W7	Diazepam. See 1-6. [Table 1F: Additional Comments for Item 1]
4XYL9K	Methadone, Diazepam and THC-COOH
4Y4XHN	Benzodiazepine (class), THC (class), Diazepam.
6767L2	Benzodiazepines
67P9D6	Benzodiazepine, Methadone, THC(Cannabinoids)
69QAH8	THC, Methadone, Diazepam
7M2FJX	benzodiazepines and cannabinoids
8KD4JR	Benzodiazepines, Cannabinoids.

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
8XLZMU	Benzodiazepines, Cannabinoids, Methadone
A38JWN	Benzodiazepines, Cannabinoids
A3L2X9	Diazepam and Methadone
AB2PQP	Benzodiazepine, Cannabinoids
AV6PMT	Diazepam, Methadone, Norbuprenorphine, THC-COOH
B6RTJU	Benzodiazepine
B74G8Z	Diazepam, Methadone, EDDP, Carboxy-Delta-9-THC
BD3AXL	Benzodiazepines, Cannabinoids
CKYA6M	Benzodiazepines, cannabinoids, diazepam, methadone, tianeptine
CYWEEJ	Cannabinoids, Benzodiazepines
D4TXWE	benzodiazepines (diazepam), cannabinoids (THC-COOH)
DGDZFL	Benzodiazepines
DGYUFG	Diazepam, Gabapentin, THC-COOH
DJAUGG	Diazepam, THC-COOH
DQKUEK	THC
DZQNMR	Diazepam
E393QR	Benzodiazepines, cannabinoids, methadone
EA8UUF	Benzodiazepine class, Cannabinoid class, Diazepam
ERU7MA	Benzodiazepines, Cannabinoids
ERY3ED	diazepam, THC-COOH
EVC4HR	Delta-9 Carboxy THC (THC metabolite), Diazepam
EXE4F3	Diazepam
EZJUKW	Benzodiazepines, Cannabinoids
F82KLH	Diazepam, carboxytetrahydrocannabinol (THC-COOH)
FCWUTG	Benzodiazepines I
FKB3F8	Benzodiazepines
FKP3E8	THC-COOH, Diazepam, Methadone
FY9C2R	benzodiazepines, cannabinoids

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
G2RNFN	cannabinoids, diazepam
G36WJM	Benzodiazepines (BENZ 1)
GDHLXD	Diazepam
GL4PPU	Diazepam; Methadone; THC
GTXFUW	Benzodiazepines, Cannabinoids
GU6ZEQ	Benzodiazepines and Cannabinoids
H6364H	Diazepam, Gabapentin, Methadone, Tianeptine, Cannabinoids
HEBQBK	Diazepam, Methadone, THC-COOH
HF9VWL	THC, Diazepam, Methadone
HTF8KE	Benzodiazepines
HU8JYD	thc cooh, gabapentin, norvenlafaxine, eddp, methadone, diazepam, acetaminophen
HYDMML	Benzodiazepines
HYYCTM	Cannabinoids, Benzodiazepines
J26FHA	THC-COOH, Diazepam
J4A4XZ	cannabinoids, benzodiazepines 1
JJNABK	Diazepam, methadone, cannabinoids
K3VWCH	Diazepam, Methadone, THC
KBL6GZ	Benzodiazepines; Diazepam, Cannabinoids
KH72JP	Marijuana: 11-nor-Delta-9-Carboxy-THC, Benzodiazepines
KMEQF4	Benzodiazepine Class/Diazepam; THC Class
LG6UAA	Diazepam- Benzodiazepines
LLJWH6	diazepam, 11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid
LZPT28	THC-COOH, gabapentin, norvenlafaxine, EDDP, methadone, diazepam
M2AQMXX	Benzodiazepines, Cannabinoids
M42ZZQ	diazepam, gabapentin, methadone, phenibut, tianeptine, cannabinoid metabolites
MFV32T	No drugs detected utilizing screening methods.
MKPBMT	Diazepam
ML2D87	Benzodiazepines

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
MTFKUW	Benzodiazepines, Cannabinoids
MWHEUM	Benzodiazepines (Immunoassay), Diazepam - LC-QTOF-MS
MYNK48	Methadone, Benzodiazepines
MZCHEE	Benzodiazepines, Methadone
N33X9M	THCCOOH, Diazepam
N8VGPP	methadone, EDDP, desmethylvanlafaxine, diazepam, gabapentin
NEUM22	cannabinoids, benzodiazepines
NHDG6T	Diazepam
NLEJBH	THC, Diazepam, Methadone
NPBCZ7	Cannabinoids, Benzodiazepines
NU9N4J	Cannabinoids, Diazepam, Methadone
NUJWN4	Benzodiazepines
NWDJF	Benzodiazepines, Cannabinoids
NZ2CWN	Delta-9-THC Acid, Diazepam, Methadone
P3LKJU	Benzodiazepines and Cannabinoids
PAEA6K	Benzodiazepines, Diazepam, Gabapentin, O-desmethylvenlafaxine
PAUXXY	ELISA positive for Benzodiazepines
PCKDPZ	cannabinoids, diazepam, cetirizine, caffeine, methadone, 0-desmethylvenlafaxine, phenibut, telmisartan, tianeptine
PRVKPX	Benzodiazepines (Diazepam), Cannabinoids
PT8HU3	Cannabinoids, Benzodiazepines
PU66T7	Cannabinoids- THC-COOH, Benzodiazepines- diazepam
Q2MUT7	benzodiazepines
Q7EL2H	Benzodiazepines, Acetaminophen, Cotinine, Diazepam, Gabapentin, Naproxen, O-Desmethylvenlafaxine
QCE8K6	Cannabinoid positive, Benzodiazepines positive
QHN3QZ	Benzodiazepines
QUCAHA	Diazepam
QUXZDF	Diazepam, Delta 9 Carboxy THC

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
RPM6DC	THC, Diazepam, Methadone
RUX3XD	Benzodiazepines, Cannabinoids, Methadone
RXJJAC	Cannabinoids, Diazepam, Methadone
TALUX6	Cannabinoids and Benzodiazepines
TK2KYV	Benzodiazepines
TPAAVA	Benzodiazepines
TZ3XDC	Diazepam, methadone, (o-desmethylvenlafaxine also indicated in analyst discretion range)
ULB46A	THC, Diazepam and Methadone
UVXCH7	Benzodiazepines, Methadone
V7TMM7	Benzodiazepines
V7ZPJ7	Benzodiazepines, cannabinoids, and methadone
VKGPA6	diazepam, methadone
VQKQ8D	diazepam, methadone, temazepam, & THC-COOH
VYAPV	Benzodiazepines, Diazepam, Cannabinoids
W6WRGA	Benzodiazepine
W93N7P	Methadone, Cannabinoids, Diazepam, Benzodiazepines, O-desmethylvenlafaxine, Gabapentin
WDQWBB	Benzodiazepines, Cannabinoids
WEJRTC	Benzodiazepines
WVTEJU	Benzodiazepines (Diazepam) and Cannabinoids
XMU6RV	Benzodiazepines, Cannabinoids, Methadone
XN67DU	benzodiazepines, cannabinoids, methadone
YB499F	Diazepam
YCPGD4	Benzodiazepines
YHVCTX	Cannabinoids, Benzodiazepines, Diazepam, Methadone, Tianeptine
YQCLML	Benzodiazepines, cannabinoids, methadone
Z7427C	THC, Diazepam, Methadone
ZDLTRN	Methadone, Diazepam, THC-COOH
ZEYJHK	Diazepam, Gabapentin, Carboxy-Tetrahydrocannabinol

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
ZLRDEC	Benzodiazepines, Cannabinoids

Screening Response Summary for Item 1	Participants: 134
Diazepam:	70
Cannabinoids:	91
Methadone:	48
Benzodiazepine:	77
Other Drugs Detected:	48
No Drugs Detected	2
Utilizing Screening Methods:	

Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Confirmatory Results - Item 1

TABLE 1B

Item Scenario:

Case 1: An 18 year-old male was stopped by police for drifting in between lanes. A Drug Recognition Expert arrived and noted that the individual was drowsy and confused. The result of a breath alcohol test was 0.00%. Blood was collected 30 minutes later.

Item Contents and Preparation Concentration: Diazepam 700 ng/mL
 THC-COOH 10 ng/mL
 Methadone 9.8 ng/mL*

*This value is the Grand Mean compiled by quantitative results of at least 10 participants (see Manufacturer's Information).

What drugs/metabolites were detected in Item 1?

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
26KJHW	Diazepam		880	+/- 110	ng/ml
	THC-COOH		11	+/- 2	ng/ml
	Methadone	✓			
2BCNF8	Diazepam	✓			
	Delta-9 Carboxy THC (THC metabolite)	✓			
2C2Y7Z	Diazepam		766	13%	ng/mL
	Methadone		< 100	13%	ng/mL
2KWWAP	diazepam		greater than 250		ng/ml
	Carboxy THC		12	16.28%	ng/ml
2PVNNY	Diazepam		0.74	0.22	mg/L
	THC-COOH		9.0	1.6	ng/mL
33PF4F	Diazepam	✓			
346LLQ	Diazepam	✓			
	Delta-9-THC-COOH (THC Metabolite)	✓			
3CHL49	Diazepam		0.66	0.12	mg/L
	11-nor-9-COOH-Δ9- THC		10.6	2.4	ng/ml
3KVYKX	diazepam		0.91	0.27	mg/L
	THC-COOH		8.8	1.6	ng/mL
3LNB2D	Diazepam	✓			
47L9T4	Diazepam	✓			
	Methadone	✓			
48X3BP	Diazepam	✓			
	Delta-9 Carboxy THC (THC metabolite)	✓			
4AWKZQ	Diazepam		0.68	0.20	mg/L
	THC-COOH		8.4	1.5	ng/mL

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
4JU4W7	Diazepam		700		ng/mL
4XYL9K	Diazepam		597.0	+/- 89.5	ng/mL
	THC-COOH		7.8	1.4	ng/mL
	Methadone		None Detected		
4Y4XHN	Diazepam	✓			
	Delta-9 Carboxy THC (THC metabolite)	✓			
6767L2	Diazepam		>500		ng/mL
69QAH8	Diazepam		691		ng/mL
7M2FJX	Diazepam	✓			
8KD4JR	Diazepam	✓			
	Delta 9-Carboxy-THC	✓			
8XLZMU	Diazepam		663	140	ng/mL
	11-nor-9-Carboxy-THC		8.5	1.6	ng/mL
A38JWN	Diazepam		0.57	+/-16%	ug/ml
	11-Nor-9-Carboxy-THC (Carboxy-THC)		8.6	+/-19%	ng/ml
	Methadone		12	+/-18%	ng/ml
A3L2X9	Diazepam	✓			
AB2PQP	Diazepam	✓			
AV6PMT	Diazepam		736.48	125.20	ng/mL
	THC-COOH		5.78	1.04	ng/mL
	Methadone		10.64	1.06	ng/mL
B74G8Z	Diazepam		660.65	99.10	ng/mL
	Carboxy-Delta-9-THC		7.84	1.34	ng/mL
	Methadone		9.95	1.80	ng/mL
BD3AXL	Diazepam		770	+/- 96	ng/mL
	THC-COOH		11	+/- 2	ng/mL
	Methadone	✓			

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
CKYA6M	diazepam	✓			
	delta-9 carboxy THC	✓			
	methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	tianeptine	✓			
CYWEEJ	Diazepam		637	80	ng/mL
	THC-COOH		8	1	ng/mL
	Methadone	✓			
D4TXWE	diazepam		0.64	0.19	mg/L
	THC-COOH		7.9	1.4	ng/mL
DGDZFL	Diazepam	✓			
	THCA	✓			
	Methadone	✓			
DGYUFG	Diazepam		713	228	ng/mL
	THC-COOH		10	3	ng/mL
	<u>Additional Analyte(s) Reported</u>				
	Gabapentin	✓			
DJAUGG	Diazepam		0.66	+/-0.20	mg/L
	11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid		7.9	+/-1.4	ng/mL
E393QR	Diazepam		590		ng/mL
	9-carboxy-11-nor-delta-9-THC		8.3		ng/mL
	Methadone		10		ng/mL
EA8UUF	Diazepam	✓			
	Delta-9-Carboxy Tetrahydrocannabinol (Delta-9-THC metabolite)	✓			
ERU7MA	Diazepam		>400		ng/mL
	11-nor-9-carboxy-delta-9-tetrahydrocannabinol		9.6	2.0	ng/mL
ERY3ED	diazepam		1.0	0.3	mg/L
	THC-COOH		9.1	1.6	ng/mL
EVC4HR	Diazepam	✓			
	Delta-9 Carboxy THC	✓			
EXE4F3	Diazepam		552	35,7	ng/mL

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
EZJUKW	Diazepam	✓			
	Delta-9 Carboxy THC	✓			
F82KLH	diazepam		594	35%	ng/ml
	carboxytetrahydrocannabinol		8.16	40%	ng/ml
FCWUTG	Diazepam		621	74	ng/mL
FKB3F8	Diazepam		>400		ng/mL
FKP3E8	Diazepam		615.9	92.4	ng/mL
	THC-COOH		7.9	1.4	ng/mL
	Methadone		10.5	1.6	ng/mL
FY9C2R	Diazepam	✓			
	11-nor-9-carboxy-delta-9-tetrahydrocannabinol (THCA)	✓			
	Methadone	✓			
G2RNFN	diazepam	✓			
	delta-9 Carboxy THC (THC metabolite)	✓			
G36WJM	Diazepam		>500		ng/mL
GDHLXD	Diazepam	✓			
GL4PPU	Diazepam		646		ng/mL
GTXFUW	Diazepam	✓			
	Delta-9-Carboxy-THC (Metabolite)	✓			
H6364H	Diazepam		697	75	ng/mL
	COOH-THC	✓			
	Methadone		Less than 25		ng/mL
	<u>Additional Analyte(s) Reported</u>				
	Tianeptine	✓			
HEBQBK	Diazepam		664.19	112.91	ng/mL
	THC-COOH		6.56	1.18	ng/mL
	Methadone		10.08	1.00	ng/mL
HF9VVL	Diazepam		640		ng/mL
HTF8KE	Diazepam		643	77	ng/mL
HU8JYD	diazepam		0.62	+/- 0.19	mg/L
	thc-cooh		8.4	+/- 1.5	ng/mL

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
HYDMML	Diazepam		552		ng/ml
HYYCTM	Diazepam	✓			
	Delta-9-THC metabolite	✓			
J26FHA	diazepam		0.71	0.21	mg/L
	THC-COOH		8.6	1.5	ng/mL
J4A4XZ	11-nor-9-carboxy-delta-9-tetrahydrocannabinol	✓			
JJNABK	Diazepam		543.70	59.80	ng/mL
	Carboxy THC	✓			
	Methadone		9.33	1.02	ng/mL
K3VWCH	Diazepam		650		ng/mL
KBL6GZ	Diazepam		750	90	ng/mL
	Cannabinoids	✓			
KH72JP	Diazepam		576	30%	ng/mL
	11-nor-Delta-9-Carboxy-THC	✓			
KMEQF4	Diazepam	✓			
	Delta-9 Carboxy THC	✓			
LG6UAA	Diazepam		392		ng/ml
LLJWH6	diazepam		1.1	0.3	mg/L
	11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid		9.3	1.7	ng/mL
LZPT28	diazepam		0.64	0.19	mg/L
	THC-COOH		8.6	1.5	ng/mL
M2AQMx	Diazepam		730	88	ng/mL
M42ZZQ	diazepam		0.75	0.10	mg/L
	carboxytetrahydrocannabinol	✓			
MFV32T	Diazepam	✓			
MKPBMT	Diazepam		0.7	15%	mg/L
ML2D87	Diazepam		716	64	ng/mL
	Methadone		11	1	ng/mL
MTFKUW	Diazepam		750	90	ng/mL

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?						
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units	
MWHEUM	Diazepam	✓				
MYNK48	Diazepam		663	79	ng/mL	
MZCHEE	Diazepam		545	57	ng/mL	
N33X9M	Diazepam		649.69	64.96	ng/mL	
	THCCOOH		10.01	2.00	ng/mL	
N8VGPP	diazepam		638	109	ng/mL	
	methadone	✓				
	<u>Additional Analyte(s) Reported</u>					
	desmethylvenfaxine	✓				
	EDDP	✓				
	Gabapentin		400	130	ng/mL	
NEUM22	diazepam		638	+/- 80	ng/ml	
	THC-COOH		10	+/- 2	ng/ml	
	methadone	✓				
NHDG6T	Diazepam	✓				
NLEJBH	Diazepam		685		ng/ml	
NPBCZ7	Diazepam		673	84	ng/mL	
	Carboxy-tetrahydrocannabinol (THC-COOH)		10	2	ng/mL	
	Methadone	✓				
NU9N4J	Diazepam		631			
NUJWN4	Diazepam		greater than 250 ng/mL		ng/mL	
	Methadone	✓	positive		ug/mL	
NWDJJF	Diazepam	✓				
	Delta-9 Carboxy THC (THC Metabolite)	✓				
NZ2CWN	Diazepam		660	50	ng/mL	
	Delta-9-THC Acid		7	2	ng/mL	
	Methadone		<50	<10	ng/mL	
P3LKJU	Carboxy-THC		6.7	+/- 0.7	ng/mL	
PAEA6K	Diazepam	✓				
	<u>Additional Analyte(s) Reported</u>					
	Gabapentin	✓				

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?						
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units	
PAUXXY	Diazepam		>250		ng/mL	
	Methadone	✓				
PCKDPZ	Diazepam		0.676	0.048	mg/L	
	delta-9-carboxy-THC		0.008	0.0011	mg/L	
	methadone	✓				
	<u>Additional Analyte(s) Reported</u>					
	caffeine	✓				
	cetirizine	✓				
	o-desmethylvenlafaxine	✓				
	phenibut	✓				
telmisartan	✓					
tianeptine	✓					
PRVKPX	Diazepam		770	93	ng/mL	
PT8HU3	Diazepam		>250ng/mL			
	THC-COOH		9	16.28%	ng/mL	
	Methadone	✓				
PU66T7	Diazepam		0.65	0.20	mg/L	
	THC-COOH		8.5	1.5	ng/mL	
Q2MUT7	diazepam		>500		ng/mL	
Q7EL2H	Diazepam	✓				
QCE8K6	Diazepam		722	+/- 90	ng/mL	
	THC-COOH		10	+/- 2	ng/mL	
	Methadone	✓				
QHN3QZ	Diazepam		>250		ng/mL	
QUCAHA	Diazepam		651.1	97.6	ng/mL	
QUXZDF	Diazepam	✓				
	Delta-9 Carboxy THC	✓				
RHGBCN	Diazepam	✓				
	<u>Additional Analyte(s) Reported</u>					
	Caffeine	✓				
RPM6DC	Diazepam		533		ng/mL	

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
RUX3XD	Diazepam		620		ng/mL
	9-carboxy-11-nor-delta-9-THC		9.7		ng/mL
	Methadone		Less than 10		ng/mL
RXJJAC	No drugs/metabolites detected utilizing confirmatory methods.				
TALUX6	Diazepam		738	92	ng/mL
	THC-COOH		6	1	ng/mL
	Methadone	✓			
TZ3XDC	Diazepam		511.96	+/- 11%	ng/mL
	Methadone		9.10	+/- 11%	ng/mL
ULB46A	Diazepam		647		ng/mL
UVXCH7	Diazepam		551	58	ng/mL
V7TMM7	Diazepam	✓			
V7ZPJ7	Diazepam		635	130	ng/mL
	11-nor-9-Carboxy-THC		10	2.0	ng/mL
VKGPA6	diazepam		636.03	108.12	ng/ml
	THC-COOH		6.57	1.18	ng/ml
	methadone		10.30	1.03	ng/ml
VQKQ8D	diazepam	✓			
	THC-COOH	✓			
	methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	temazepam	✓			
WYAPV	Diazepam	✓			
	Delta-9 Carboxy THC	✓			
W6WRGA	Diazepam	✓			
W93N7P	Diazepam		782	96	ng/mL
	Methadone		<25		ng/mL
	Carboxy-tetrahydrocannabinol (THCCOOH)	✓			
WDQWBB	Diazepam	✓			
	THC-COOH	✓			

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
WVTEJU	Diazepam	✓			
	Delta9-THC-COOH	✓			
XMU6RV	Diazepam		> 250		ng/mL
	THC-COOH		10	16.28%	ng/mL
	Methadone	✓			
XN67DU	Diazepam		0.6	± 0.1	µg/ml
	11-nor-9-carboxy-Δ9- tetrahydrocannabinol		7	± 2	ng/ml
	Methadone		present, <10	N/A	ng/ml
YB499F	Diazepam		0.6515	7.4%	mg/L
YCPGD4	Diazepam		0.64		mg/L
YHVCTX	Diazepam	✓			
	Delta-9 Carboxy THC	✓			
	Methadone	✓			
	<u>Additional Analyte(s) Reported</u> Tianeptine	✓			
YQCLML	diazepam		0.6	±0.1	µg/ml
	11-nor-9-carboxy-Δ9- tetrahydrocannabinol		8	±2	ng/mL
	methadone		present, <10	N/A	ng/mL
Z7427C	Diazepam		642		ng/mL
ZDLTRN	Diazepam		550.8	+/- 82.6	ng/mL
	THC-COOH		8.5	+/- 1.5	ng/mL
	Methadone		None Detected		
ZEYJHK	Diazepam	✓			
	Carboxy-Tetrahydrocannabinol	✓			
	<u>Additional Analyte(s) Reported</u> Gabapentin	✓			
ZLRDEC	Diazepam	✓			
	Delta-9 carboxy THC (THC metabolite)	✓			

Confirmatory Response Summary for Item 1		Participants: 126
Diazepam:	123	
THC-COOH:	74	
Methadone:	38	
Other Identified Drugs/Metabolites:	17	
No Drugs/Metabolites Detected	1	
Utilizing Confirmatory Methods:		

Total number of confirmatory responses above may be more than the number of participants due to multiple drugs/ metabolites being reported.

Raw Data - Item 1

TABLE 1C

Item 1 Raw Data - Diazepam
Preparation concentration: 700 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
26KJHW	880.00		880.00 X
2C2Y7Z	766.53	767.40	767.00
2KWVAP	649.99		650.00
2PVNNY	739.26		739.30
3CHL49	667.00		667.00
3KVYKX	911.09		911.10 X
4AWKZQ	679.81		679.80
4JU4W7	700.00		700.00
4XYL9K	643.90	597.00	620.50
6767L2	597.00		597.00
69QAH8	691.74		691.70
8XLZMU	663.91	673.50	668.70
A38JWN	570.80		570.80
AV6PMT	736.48		736.50
B74G8Z	660.65		660.70
BD3AXL	154.00		154.00 X
CYWEEJ	637.60		637.60
D4TXWE	640.58		640.60
DGYUFG	713.00		713.00
DJAUGG	656.93		656.90
E393QR	587.82		587.80
ERY3ED	1,006.1		1,006.1 X
EXE4F3	552.00		552.00
F82KLH	594.00		594.00
FCWUTG	621.55		621.60
FKP3E8	693.00	615.90	654.50
G36WJM	828.00		828.00
GL4PPU	646.58		646.60
H6364H	690.97	703.90	697.50
HEBQBK	664.19		664.20
HF9VVL	640.11		640.10
HTF8KE	643.79		643.80

TABLE 1C: Raw Data - Item 1
Item 1 Raw Data - Diazepam
Preparation concentration: 700 ng/mL

WebCode	List of Raw Data determinations (ng/mL)					Participant Mean
HU8JYD	623.33					623.30
HYDMML	126.48	140.70	135.40	140.07	135.62	135.70 X
J26FHA	705.84					705.80
JJNABK	543.70					543.70
K3VWCH	650.48					650.50
KBL6GZ	744.00	755.50				749.80
KH72JP	576.00					576.00
LG6UAA	388.35	395.10				391.70 X
LLJWH6	1,131.7	1,051.0				1,091.4 X
LZPT28	643.93					643.90
M2AQMXX	721.00	729.00				725.00
M42ZZQ	765.00	741.00				753.00
MKPBMT	688.00	702.00				695.00
ML2D87	715.63					715.60
MTFKUW	758.00	738.00	767.00	748.00		752.80
MYNK48	663.15					663.20
MZCHEE	544.72					544.70
N33X9M	649.69					649.70
N8VGPP	640.00	636.00				638.00
NEUM22	63.800					63.800 X
NLEJBH	685.47					685.50
NPBCZ7	673.60					673.60
NU9N4J	631.03					631.00
NUJWN4	644.69					644.70
NZ2CWN	661.00					661.00
PAUXXY	563.59					563.60
PCKDPZ	700.34	651.90				676.10
PRVKPX	785.00	778.00	761.00	755.00		769.80
PT8HU3	581.34					581.30
PU66T7	654.95					655.00
QCE8K6	722.20					722.20
QHN3QZ	639.83					639.80
QUCAHA	651.12					651.10

TABLE 1C: Raw Data - Item 1
Item 1 Raw Data - Diazepam
Preparation concentration: 700 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
RPM6DC	533.79		533.80
RUX3XD	622.19		622.20
TALUX6	738.00		738.00
TZ3XDC	511.96		512.00
ULB46A	647.46		647.50
UVXCH7	550.75		550.80
V7ZPJ7	635.69	647.00	641.30
VKGPA6	636.03		636.00
W93N7P	792.15	771.30	781.70
XMU6RV	603.30		603.30
XN67DU	647.66		647.70
YQCLML	609.54		609.50
Z7427C	642.59		642.60
ZDLTRN	550.80	561.60	556.20

Statistical Analysis for Item 1 - Diazepam			
Grand Mean	654.00	Number of Participants Included	71
Standard Deviation	64.48	Number of Participants Excluded	8

TABLE 1C: Raw Data - Item 1

Item 1 Raw Data - THC-COOH
Preparation concentration: 10 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
26KJHW	11.000		11.000
2KWVAP	12.100		12.100
2PVNNY	9.0280		9.0280
3CHL49	10.688		10.690
3KVYKX	8.7560		8.7560
4AWKZQ	8.4440		8.4440
4XYL9K	7.8000		7.8000
8XLZMU	8.5700	9.3400	8.9550
A38JWN	8.6185		8.6190
AV6PMT	8.4800	5.7800	7.1300
B74G8Z	7.8400		7.8400
BD3AXL	11.300		11.300
CYWEEJ	8.8500		8.8500
D4TXWE	7.9150		7.9150
DGYUFG	10.000		10.000
DJAUGG	7.8900		7.8900
E393QR	8.2600		8.2600
ERU7MA	9.6240		9.6240
ERY3ED	9.1160		9.1160
F82KLH	8.1600		8.1600
FKP3E8	7.9000		7.9000
HEBQBK	7.5700	6.5600	7.0650
HU8JYD	8.3980		8.3980
J26FHA	8.5910		8.5910
LLJWH6	9.3190		9.3190
LZPT28	8.6310		8.6310
N33X9M	10.010		10.010
NEUM22	10.300		10.300
NPBCZ7	10.210		10.210
NZ2CWN	6.7000	6.7000	6.7000
P3LKJU	6.7400		6.7400
PCKDPZ	7.5200	8.4600	7.9900
PT8HU3	9.9000		9.9000

TABLE 1C: Raw Data - Item 1

Item 1 Raw Data - THC-COOH
Preparation concentration: 10 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
PU66T7	8.5360		8.5360
QCE8K6	10.900		10.900
RUX3XD	9.7100		9.7100
TALUX6	6.4900		6.4900
V7ZPJ7	10.150	10.920	10.540
VKGPA6	6.5700	7.6300	7.1000
XMU6RV	10.850		10.850
XN67DU	7.8330		7.8330
YQCLML	8.8510		8.8510
ZDLTRN	8.5000		8.5000

Statistical Analysis for Item 1 - THC-COOH			
Grand Mean	8.90	Number of Participants Included	43
Standard Deviation	1.35	Number of Participants Excluded	0

TABLE 1C: Raw Data - Item 1
Item 1 Raw Data - Methadone
Preparation concentration: 9.8 ng/mL*

*This value is the Grand Mean compiled by quantitative results of at least 10 participants (see Manufacturer's Information).

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
2C2Y7Z	9.9783	10.110	10.040
4XYL9K	9.9000	9.2000	9.5500
A38JWN	11.728		11.730
AV6PMT	10.640		10.640
B74G8Z	9.9500		9.9500
E393QR	10.280		10.280
FKP3E8	10.500	9.4000	9.9500
H6364H	9.0500	9.0600	9.0550
HEBQBK	10.080		10.080
JJNABK	9.3300		9.3300
ML2D87	11.150	11.220	11.190
NZ2CWN	10.000		10.000
RUX3XD	9.3100		9.3100
TZ3XDC	9.1000		9.1000
VKGPA6	10.300		10.300
XN67DU	9.7050		9.7050
YQCLML	7.1990		7.1990
ZDLTRN	8.7000	8.6000	8.6500

Statistical Analysis for Item 1 - Methadone			
Grand Mean	9.78	Number of Participants Included	18
Standard Deviation	0.99	Number of Participants Excluded	0

Reporting Procedures - Item 1

TABLE 1D - Item 1

WebCode	Quantitative Reporting Procedures
26KJHW	A single determination.
2C2Y7Z	The mean of duplicate/several determinations.
2KVVAP	A single determination.
2PVNNY	A single determination.
3CHL49	A single determination.
3KVYKX	A single determination.
4AWKZQ	A single determination.
4JU4W7	A single determination.
4XYL9K	The sample is analyzed in duplicate, and the results have to be within +/-20% of their mean. The lowest of the two quantitative results is reported.
6767L2	A single determination.
69QAH8	A single determination.
8XLZMU	Lowest of duplicate samples, truncated
A38JWN	A single determination.
AV6PMT	A single determination.
B74G8Z	A single determination.
BD3AXL	A single determination.
CYWEEJ	A single determination.
D4TXWE	A single determination.
DGYUFG	A single determination.
DJAUGG	A single determination.
E393QR	A single determination.
ERU7MA	A single determination.
ERY3ED	A single determination.
EXE4F3	The mean of duplicate/several determinations.
F82KLH	A single determination.
FCWUTG	A single determination.
FKB3F8	A single determination.
FKP3E8	Lowest concentration reported from duplicate analysis for the LC/MS/MS; A single determination for GC/MS/MS.
G36WJM	A single determination.

TABLE 1D: Reporting Procedures - Item 1

WebCode	Quantitative Reporting Procedures
GL4PPU	A single determination.
H6364H	The mean of duplicate/several determinations.
HEBQBK	A single determination was used for both Diazepam and Methadone. Sample was screened and confirmed on a quantitative method for THC-COOH, the lower of the two values is the reported concentration.
HF9VVL	A single determination.
HTF8KE	A single determination.
HU8JYD	A single determination.
HYDMML	The mean of duplicate/several determinations.
J26FHA	A single determination.
K3VWCH	A single determination.
KBL6GZ	The mean of duplicate/several determinations.
KH72JP	A single determination.
LG6UAA	The mean of duplicate/several determinations.
LLJWH6	The mean of duplicate/several determinations.
LZPT28	A single determination.
M2AQMXX	The mean of duplicate/several determinations.
M42ZZQ	The mean of duplicate/several determinations.
ML2D87	Diazepam (single), Methadone (mean of duplicates)
MTFKUW	The mean of duplicate/several determinations.
MYNK48	A single determination.
MZCHEE	A single determination.
N33X9M	A single determination.
N8VGPP	The mean of duplicate/several determinations.
NEUM22	A single determination.
NLEJBH	A single determination.
NPBCZ7	A single determination.
NU9N4J	A single determination.
NUJWN4	A single determination.
NZ2CWN	A single determination.
P3LKJU	A single determination.
PAUXXY	A single determination.

TABLE 1D: Reporting Procedures - Item 1

WebCode	Quantitative Reporting Procedures
PCKDPZ	The mean of duplicate/several determinations.
PRVKPX	The mean of duplicate/several determinations.
PT8HU3	A single determination.
PU66T7	A single determination.
Q2MUT7	A single determination.
QCE8K6	A single determination.
QHN3QZ	A single determination.
QUCAHA	A single determination.
RPM6DC	A single determination.
RUX3XD	A single determination.
TALUX6	A single determination.
TZ3XDC	A single determination.
ULB46A	A single determination.
UVXCH7	A single determination.
V7ZPJ7	The lowest of the duplicates
VKGPA6	Sample was screened and confirmed on a quantitative method for THC-COOH, the lower of the two values is the reported concentration; remaining reported compounds are a single determination
W93N7P	The mean of duplicate/several determinations.
XMU6RV	A single determination.
XN67DU	A single determination.
YB499F	The mean of duplicate/several determinations.
YCPGD4	A single determination.
YQCLML	A single determination.
Z7427C	A single determination.
ZDLTRN	Methadone and Diazepam (lowest of duplicate analysis), THC-COOH is a single determination

Response Summary for Item 1		Participants: 83
A single determination:	60 (72.3%)	
The mean of duplicate/several determinations:	15 (18.07%)	
Other:	8 (9.6%)	

Methods of Analysis - Item 1

TABLE 1E - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
26KJHW	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓ ✓
2BCNF8	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
2C2Y7Z	Immunoassay High resolution accurate mass LC/MS LC/MS/MS	✓ ✓		✓
2KWWAP	Immunoassay LC/MS/MS	✓	✓	✓
2PVNNY	LC-HRMS/MS LC/MS/MS	✓	✓	
2RY3TY	LC/MS/MS	✓		
33PF4F	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
346LLQ	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
3CHL49	Immunoassay LC/MS	✓	✓	✓
3KVYKX	LC-HRMS/MS LC/MS/MS	✓		✓
3LNB2D	GC/MS		✓	
47L9T4	Immunoassay LC-QTOF-MS	✓	✓	
48X3BP	Immunoassay GC/MS LC/MS	✓ ✓	✓ ✓	✓
4AWKZQ	LC/MS/MS LC/MS	✓	✓	✓
4JU4W7	HPLC-DAD GC/MS	✓	✓	✓
4XYL9K	LC/MS/MS GC/MS/MS	✓	✓ ✓	✓ ✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
4Y4XHN	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	
6767L2	Immunoassay	✓		
	LC/MS/MS		✓	✓
67P9D6	Immunoassay	✓		
69QAH8	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS		✓	✓
7M2FJX	Immunoassay	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
8KD4JR	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
8XLZMU	Immunoassay	✓		
	LC/MS/MS		✓	✓
A38JWN	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	✓
A3L2X9	LC/MS/MS	✓	✓	
AB2PQP	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
AV6PMT	LC/MS/MS	✓	✓	✓
B6RTJU	Immunoassay	✓		
B74G8Z	LC/MS/MS	✓	✓	✓
BD3AXL	Immunoassay	✓		
	LC/MS/MS		✓	✓
	GC/MS		✓	✓
CKYA6M	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
	LC/QTOF-MS	✓		
CYWEEJ	Immunoassay	✓		
	GC/MS	✓	✓	
	GC/FID		✓	
	LC/MS/MS		✓	✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
D4TXWE	LC-HRMS/MS LC/MS/MS	✓	✓	✓
DGDZFL	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
DGYUFG	Immunoassay LC/MS/MS	✓ ✓	✓	✓
DJAUGG	LC-HRMS/MS LC/MS/MS	✓	✓	✓
DQKUEK	Immunoassay	✓		
DZQNMR	GC/MS	✓		
E393QR	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
EA8UUF	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
ERU7MA	Immunoassay LC/MS/MS	✓	✓	
ERY3ED	LC-HRMS/MS LC/MS/MS	✓	✓	
EVC4HR	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
EXE4F3	LC/MS/MS	✓	✓	✓
EZJUKW	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
F82KLH	GC/MS	✓	✓	✓
FCWUTG	Immunoassay LC/MS/MS	✓	✓	✓
FKB3F8	Immunoassay LC/MS/MS	✓	✓	✓
FKP3E8	LC/MS/MS GC/MS/MS	✓	✓ ✓	✓ ✓
FY9C2R	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
G2RNFN	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
G36WJM	Immunoassay	✓		
	LC/MS/MS		✓	✓
GDHLXD	GC/MS	✓		
	LC/MS/MS	✓	✓	
GL4PPU	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS		✓	✓
GTXFUW	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
GU6ZEQ	Immunoassay	✓		
H6364H	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	✓
	LC/QTOF	✓		
HEBQBK	LC/MS/MS	✓	✓	✓
HF9VVL	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS		✓	
HTF8KE	Immunoassay	✓		
	LC/MS/MS		✓	✓
HU8JYD	LC-HRMS/MS	✓		
	LC/MS		✓	
HYDMML	Immunoassay	✓		
	LC/MS/MS		✓	✓
HYYCTM	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS		✓	
J26FHA	LC/MS/MS		✓	✓
J4A4XZ	Immunoassay	✓		
	GC/MSMS		✓	
	LC/MS/MS	✓		
JJNABK	LC/MS/MS	✓	✓	✓
K3VWCH	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS		✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
KBL6GZ	Immunoassay LC-QTOF LC/MS/MS	✓	✓	✓
KH72JP	Immunoassay LC/MS/MS	✓	✓	✓
KMEQF4	Immunoassay GC/MS LC/MS	✓ ✓	✓ ✓	✓
LG6UAA	LC/MS/MS		✓	✓
LLJWH6	hrams LC/MS/MS GC/MS	✓	✓ ✓	✓
LZPT28	LC/MS/MS High Resolution Accurate Mass Spectrometry	✓	✓	✓
M2AQMx	Immunoassay LC-QTOF LC/MS/MS	✓ ✓		✓
M4ZZQ	Immunoassay LC-QTOF-MS LC/MS/MS	✓ ✓ ✓	✓	✓
MFV32T	GC/MS		✓	
MKPBMT	LC/MS/MS Immunoassay	✓ ✓	✓	✓
ML2D87	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓
MTFKUW	Immunoassay LC-QTOF LC/MS/MS	✓	✓	✓
MWHEUM	Immunoassay LC-QTOF-MS GC/MS	✓ ✓	✓	
MYNK48	Immunoassay LC/MS/MS	✓	✓	✓
MZCHEE	Immunoassay LC/MS/MS	✓	✓	✓
N33X9M	LC/MS/MS	✓	✓	✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
N8VGPP	Immunoassay	✓		
	LC-TOFMS	✓	✓	
	LC/MS/MS	✓		✓
NEUM22	Immunoassay	✓		
	GC/MS		✓	✓
	LC/MS/MS		✓	✓
NHDG6T	GC/MS	✓		
	LC/MS	✓		
	LC/MS/MS		✓	
NLEJBH	Immunoassay	✓		
	LC/MS/MS	✓	✓	✓
	GC/MS		✓	✓
NPBCZ7	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	✓
	GC/FID		✓	✓
NU9N4J	Immunoassay	✓		
	LC/MS/MS	✓	✓	✓
	GC/MS		✓	✓
NUJWN4	Immunoassay	✓		
	LC/MS/MS		✓	✓
	GC/MS		✓	
NWDJJF	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
NZ2CWN	Immunoassay	✓		
	UPLC-QTOF-MS (Waters)	✓	✓	✓
	LC/MS/MS		✓	✓
P3LKJU	Immunoassay	✓		
	GC/MS		✓	✓
PAEA6K	Immunoassay	✓		
	GC/MS		✓	
	LC/QTOF/MS	✓	✓	
PAUXXY	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	
PCKDPZ	Immunoassay	✓		
	LC/MS/MS		✓	✓
	LCQTOF		✓	✓
PRVKPX	Immunoassay	✓		
	LC-QTOF	✓	✓	
	LC/MS/MS		✓	✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
PT8HU3	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	✓
	GC/FID		✓	
PU66T7	LC/MS/MS	✓	✓	✓
Q2MUT7	Immunoassay	✓	✓	✓
Q7EL2H	Immunoassay	✓		
	QTOF	✓	✓	
	GC/MS		✓	
QCE8K6	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
	GC/FID		✓	
QHN3QZ	Immunoassay	✓		
	LC/MS/MS		✓	✓
QUCAHA	LC/Ion-Trap	✓		
	LC/MS/MS		✓	✓
	Immunoassay	✓		
QUXZDF	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS		✓	✓
RHGBCN	GC/MS		✓	
RPM6DC	LC/MS/MS	✓		
	GC/MS		✓	✓
	Immunoassay	✓		
RUX3XD	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
RXJJAC	LC/MS/MS	✓		✓
TALUX6	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
	GC/FID		✓	
TK2KYV	Immunoassay	✓		
TPAAVA	Immunoassay	✓		
TZ3XDC	LC/MS/MS	✓	✓	✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
ULB46A	Immunoassay	✓		
	LC/MS/MS	✓	✓	✓
	GC/MS		✓	✓
UVXCH7	Immunoassay	✓		
	LC/MS/MS		✓	✓
V7TMM7	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS			✓
V7ZPJ7	Immunoassay	✓		
	LC/MS/MS		✓	✓
VKGPA6	LC/MS/MS	✓	✓	✓
VQKQ8D	LC/MS/MS	✓	✓	
WYAPV	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS		✓	✓
W6WRGA	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
W93N7P	Immunoassay	✓		
	LC/MS/MS		✓	✓
	LC-MS-QTOF	✓		
WDQWBB	Immunoassay	✓		
	LC-QTOF		✓	
	GC/MS		✓	
WEJRTC	Immunoassay	✓		
WVTEJU	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	
XMU6RV	Immunoassay	✓		
	LC/MS/MS		✓	✓
	GC/MS	✓		
XN67DU	Immunoassay	✓		
	LC/MS/MS		✓	✓
YB499F	LC-QTOF-MSMS	✓	✓	✓
YCPGD4	Immunoassay	✓		
	LC/MS/MS	✓	✓	✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
YHVCTX	Immunoassay	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
	LC/QTOF-MS	✓		
YQCLML	Immunoassay	✓		
	LC/MS/MS		✓	✓
Z7427C	LC/MS/MS	✓		
	GC/MS		✓	✓
	Immunoassay	✓		
ZDLTRN	LC/MS/MS	✓	✓	✓
	GC/MS/MS		✓	✓
ZEYJHK	LC-QTOF	✓	✓	
ZLRDEC	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓

Response Summary for Item 1 - Methods of Analysis				Participants: 135
	Screening	Confirmatory	Quantitation	
Immunoassay:	97	1	1	
GC/MS:	30	61	12	
LC/MS:	1	8	6	
LC/MS/MS:	34	91	79	
Other:	25	21	8	

Additional Comments for Item 1

TABLE 1F

WebCode	Item Comments
2BCNF8	Quantitation of Delta-9 Tetrahydrocannabinol was performed, however the result was negative
2C2Y7Z	Methadone lower limit of quantitation (LLOQ) is 100 ng/mL. Both replicate measurements of methadone were less than the LLOQ, but were greater than the limit of detection of 5 ng/mL. EDDP is not routinely confirmed.
2PVNNY	Screening: Mepivacaine and mephobarbital were used as internal standards. Confirmation of THC-COOH: THC-d3, THC-OH-d3, and THC-COOH-d9 were used as internal standards. Quantitation based off of THC-COOH-d9. Confirmation of Diazepam: Mepivacaine, diazepam-d5, and clonazepam-d4 were used as an internal standards. Quantitation based off of diazepam-d5. Limits of detection: Gabapentin: 0.30 mg/L, Desmethylvenlafaxine: 0.050 mg/L, Methadone: 25 µg/L
2RY3TY	LODs: Diazepam - 5ng/ml, Methadone - 5ng/ml, THC-COOH - 50ng/ml
346LLQ	THC Quantitation was performed, but Delta-9-THC was not detected therefore no value is reported.
3KVYKX	IS: mepivacaine, diazepam-d5, mephobarbital, THC-COOH-d9, gabapentin-d4. gabapentin LOR 0.30 mg/L, desmethylvenlafaxine LOR 0.050 mg/L, EDDP LOR 3.0 mcg/L, methadone LOR 25 mcg/L, diazepam LOR 25 mcg/L, THC-COOH LOR 5 ng/mL
3LNB2D	LOD 75 ng/mL
48X3BP	Prazepam Internal Standard for Benzodiazepine confirmation. D3 Delta-9 Carboxy THC (THC metabolite) and D3 Delta-9 THC are the Internal Standards used for Delta-9 Carboxy THC (THC metabolite) Qualitative identification and Delta-9 THC Quantitation Limit of Detection is 2 ng/mL for Delta-9 THC and Delta-9 Carboxy THC (THC metabolite). Promazine Internal Standard for Drug Screen
4AWKZQ	Internal Standard used: THC-d3 THCOH-d3 THC-COOH-d9 Diazepam-d5 Mepivacaine gabapentin-d4. The following drugs will not be reported due to being contaminants: gabapentin, desmethylvenlafaxine, methadone, eddp, acetaminophen. All analytes below limit of detection expect gabapentin but not reported due to possible contamination.
4JU4W7	Cetirizine, methadone, methamphetamine, o-desmethylvenlafaxine, tianeptine and metabolites are detected in all samples. ¿perhaps from the blank sample?
4XYL9K	Diazepam lower limit of quantitation (LLOQ) is 20 ng/mL with a working range of 20-1000 ng/mL. The internal standard used was Diazepam-D5. The extraction method used was protein precipitation with acetonitrile followed by size exclusion filtration. THC-COOH (THCA) was screened using LC/MS/MS method and confirmed using the GC/MS/MS method: THCA was confirmed on the GC/MS/MS with a cut off of 5 ng/mL and a working range of 5-200 ng/mL. The internal standard for the THCA was THCA-D9. The extraction method used was Liquid/Liquid targeting free, nonconjugated/nonprotein bound, compounds. *Methadone LLOQ is 10 ng/mL with a working range of 10-500 ng/mL. The internal standard used was Methadone-D9. The extraction method used was protein precipitation with acetonitrile followed by size exclusion filtration. *Note: For methadone a sample with a concentration that is between the LLOQ and 50% of the LLOQ is considered "Trace" and reported as None Detected. Trace result does not require a 2nd analysis. However, a positive result from a 2nd analysis is reported if it is above the LLOQ. In this case methadone results were both below the LLOQ. Therefore, methadone was reported as None Detected.
4Y4XHN	Promazine used as internal standard in Drug Screen. THC quant limit of detection is 2ng/mL. Values below LOD are reported as "Not Detected". Deuterated Δ9-THC & Δ9-THC-COOH used as internal standard in THC Quantitation procedure. Prazepam used as internal standard in Benzodiazepine confirmation.
6767L2	Internal Standard: Diazepam D5; LOD: 5 ng/mL; LLOQ: 10 ng/mL; ULOQ: 500 ng/mL
67P9D6	Benzo cutoff = 20ng/ml, Methadone Cutoff = 10ng/ml, THC cutoff = 10ng/ml

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
69QAH8	THC below reporting, Methadone below reporting.
7M2FJX	In immunoassay analysis, cannabinoids were detected at 15 ng/mL (cutoff), but in confirmatory GC/MS analysis, delta-9 carboxy tetrahydrocannabinol was below the 10 ng/mL cutoff. The cutoff value of Diazepam by LC/MS/MS is 10 ng/mL
8KD4JR	LC/MS/MS is used quantitatively for Delta 9-THC only; Delta 9-Carboxy-THC is only identified qualitatively. The lab's LOD for Delta 9-THC via this methodology is 2.0 ng/mL.
8XLZMU	The laboratory is not currently able to confirm and quantitate methadone. The results are presumptive only.
A38JWN	5/16/23 and 5/17/23 LCMSMS runs did not meet QC criteria and quants from those runs were not considered
A3L2X9	A low concentration of methadone was detected in all three samples for this proficiency test.
AB2PQP	Immunoassay used was ELISA. Drug screen internal standard is Promazine. Benzodiazepine confirmation internal standard is Prazepam. Delta 9 Tetrahydrocannabinol quantitation procedure performed which analyzes Delta 9 Tetrahydrocannabinol quantitatively and 11-nor-9-Carboxy-Delta 9 Tetrahydrocannabinol qualitatively. Method has a limit of detection of 2 ng/mL and uses 11-nor-9-Carboxy-Delta 9 Tetrahydrocannabinol D3 and Delta 9 Tetrahydrocannabinol D3 as internal standards. No Delta 9 Tetrahydrocannabinol or 11-nor-9-Carboxy-Delta 9 Tetrahydrocannabinol detected.
AV6PMT	Sample for THC-COOH was screened and confirmed on a quantitative method, the lower of the two values is the reported concentration. Diazepam LOQ 5ng/mL; ISTD Diazepam-d5. Methadone LOQ 5ng/mL; ISTD Methadone-d9. THC-COOH LOQ 5ng/mL; ISTD THC-COOH-d9
B6RTJU	Screening cutoff is 50ng/mL for Benzodiazepine
BD3AXL	Diazepam LOD is 250 ng/mL. Reported from dilution.
CKYA6M	LC/QTOF-MS internal standards, buprenorphine-D4, diazepam-D5, diphenhydramine-D3, hydromorphone-D3, oxycodone-D3, LC-MS/MS internal standards d3-hydromorphone, d3-oxycodone, GC/MS internal standard phenyltoloxamine
D4TXWE	Internal standards (mepivacaine, diazepam-d5, THC-COOH-d9, gabapentin-d4). Possible artifact: gabapentin (lower than the lowest calibrator; LLC of 1.0 mg/L)
DGDZFL	Confirmatory ISTD GC/MS: [Initials]. Qualitative cannabinoids confirmatory test ISTD LC/MS/MS: delta-9-THC-OH-d3, delta-9-carboxy-THC-d3, delta-9-THC-d3
DJAUGG	Acetaminophen, Gabapentin, Norvenlafaxine, Methadone, and EDDP were detected in all 3 PT samples and were considered an unintended contaminate not reported by the PT provider.
DZQNMR	Extraction using Quechers Method followed by Derivatization using TMS. Analysed by [initials] on GCMS
EA8UUF	The internal standard used for the full panel drug screen procedure was promazine. The internal standard used for the benzodiazepine confirmation procedure was prazepam. The THC quantitation procedure was used to detect delta-9-carboxy THC qualitatively and delta-9-THC quantitatively. The internal standards used in this method were delta-9-COOH THC d3 and delta-9-THC d3. Additionally, the limit of detection for this method is 2ng/mL and any results below this value will be reported as "not detected"
ERU7MA	No raw concentration available, ULOQ for Diazepam is 400 ng/mL.
ERY3ED	LCMSMS internal standards - mepivacaine, THCd3, THC-OH-d3, THC-COOHd9. found LOR and in all 3 items (possible contaminants?) : gabapentin, norvenlafaxine, EDDP, methadone

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
FCWUTG	Immunoassay: Benzodiazepines I (Oxazepam) cutoff 10 ng/mL. LC/MS/MS: Aminoclonazepam, aminoflunitrazepam, bromazepam, buspirone, clonazepam, desaklyflurazepam, deschloroetizolam, desmethylflunitrazepam, diclazepam, etizolam, flualprazolam, flunitrazepam, flurazepam, hydroxyetizolam, triazolam LOQ 5ng/mL and internal standard aminoclonazepam-d4, aminoflunitrazepam-d7, bromazepam-d4, buspirone-d8, clonazepam-d4, desalkylflurazepam-d4, deschloroetizolam-d5, desmethylflunitrazepam-d4, diclazepam-d4, etizolam-d3, flunitrazepam-d7, flurazepam-d4, hydroxyalprazolam-d5, triazolam-d4 respectively. Alprazolam, clonazolam, delorazepam, estazolam, flubromazepam, flubromazolam, hydroxyalprazolam, hydroxymidazolam, hydroxytriazolam, lorazepam, midazolam, zaleplon, zolpidem, zopiclone LOQ 10ng/ml and internal standard alprazolam-d5, clonazepam-d4, delorazepam-d4, estazolam-d5, etizolam-d3, hydroxyalprazolam-d5, hydroxymidazolam-d4, lorazepam-d4, midazolam-d4, zaleplon-d4, zolpidem-d6, zopiclone-d4 respectively. Chlordiazepoxide, clobazam, demoxepam, diazepam, diphenhydramine, doxylamine, hydroxyphenazepam, hydroxyzine, nitrazepam, nordiazepam, oxazepam, phenazepam, temazepam LOQ 20ng/ml and internal standard chlordiazepoxide-d5, demoxepam-d5, diazepam-d5, diphenhydramine-d3, doxylamine-d5, hydroxymidazolam-d4, hydroxyzine-d8, midazolam-d4, nordiazepam-d5, oxazepam-d5, temazepam-d5 respectively.
FKB3F8	No raw concentration available, ULOQ for Diazepam is 400 ng/mL.
FKP3E8	THC-COOH/THC-COOH-D9, LOD 6ng/mL for LC/MS/MS method, result was qualitative only; THC-COOH/THC-COOH-D9, LLOQ 5 ng/mL, working range 5-200ng/mL for GC/MS/MS method; Diazepam/Diazepam-D5, LLOQ 20ng/mL, working range 20-1000ng/mL; Methadone/Methadone-D9, LLOQ 10ng/mL, working range 10-500ng/mL, result on 5/18/2023 (9.4ng/mL) was considered "Trace" (below LLOQ but above LOD) and qualitative only. Therefore, the results from 5/15/2023 (10.5ng/mL) was reported.
FY9C2R	Confirmatory ISTD GC/MS: [initials]. Qualitative cannabinoids confirmatory test ISTD LC/MS/MS: delta-9-THC-OH-d3, delta-9-carboxy-THC-d3, delta-9-THC-d3
G2RNFN	Delta-9 Tetrahydrocannabinol (THC) quantitation performed- not detected
GDHLXD	Cetirizine, Gabapentin, Methadone and traces of EDDP were detected in all three Items. Traces of THC-COOH was detected in Item 1.
GL4PPU	Methadone was below reporting limit (40ng/mL). THC-COOH was above reporting limit (5ng/mL) did not meet qualifying criteria to report (failing ion ratios).
GTXFUW	While a quantitation was performed on LC/MS/MS, the results of the quantitation were 0. The Delta-9-Carboxy THC was only observed qualitatively using this method.
GU6ZEQ	Screening only/no confirmation testing performed.
HEBQBK	Diazepam LOQ 5ng/mL, ISTD Diazepam-D5. Methadone LOQ 5ng/mL, ISTD Methadone-D9. THC-COOH LOQ 5ng/mL, ISTD THC-COOH-D9
HF9VVL	LC/MS/MS confirmation testing completed for THC - results were below our reporting limits. Sample also screened positive for Methadone - confirmation results were below our reporting limits.

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
HTF8KE	Immunoassay: Benzodiazepines 1 Target: Oxazepam cutoff: 10ng/mL. LC/MS/MS: Analyte (cutoff) (IS) - Alprazolam (10 ng/ml) (Alprazolam-d5), Bromazepam (5 ng/ml) (Bromazepam-d4), Buspirone (5 ng/ml) (Buspirone-d8), Clobazam (20 ng/ml) (Estazolam-d5), Clonazepam (5 ng/ml) (Clonazepam-d4), Clonazolam (10 ng/ml) (Clonazepam-d4), Delorazepam (10 ng/ml) (Delorazepam-d4), Demoxepam (20 ng/ml) (Demoxepam-d5), Desaklyflurazepam (5 ng/ml) (Desalkylflurazepam-d4), Desmethylflunitrazepam (5 ng/ml) (Desmethylflunitrazepam-d4), Diazepam (20 ng/ml) (Diazepam-d5), Diclazepam (5 ng/ml) (Diclazepam-d4), Diphenhydramine (20 ng/ml) (Diphenhydramine-d3), Doxylamine (20 ng/ml) (Doxylamine-d5), Estazolam (10 ng/ml) (Estazolam-d5), Etizolam (5 ng/ml) (Etizolam-d3), Flualprazolam (5 ng/ml) (Triazolam-d4), Flubromazepam (10 ng/ml) (Nordiazepam-d5), Flubromazolam (10 ng/ml) (Triazolam-d4), Flunitrazepam (5 ng/ml) (Flunitrazepam-d7), Flurazepam (5 ng/ml) (Flurazepam-d4), Hydroxalprazolam (10 ng/ml) (Hydroxalprazolam-d5), Hydroxyetizolam (5 ng/ml) (Bromazepam-d4), Hydroxyphenazepam (20 ng/ml) (Oxazepam-d5), Hydroxytriazolam (10 ng/ml) (Clonazepam-d4), Hydroxyzine (20 ng/ml) (Hydroxyzine-d8), Lorazepam (10 ng/ml) (Lorazepam-d4), Midazolam (10 ng/ml) (Midazolam-d4), Nitrazepam (20 ng/ml) (Nordiazepam-d5), Oxazepam (20 ng/ml) (Oxazepam-d5), Phenazepam (20 ng/ml) (Triazolam-d4), Temazepam (20 ng/ml) (Temazepam-d5), Triazolam (5 ng/ml) (Triazolam-d4), Zaleplon (10 ng/ml) [Zaleplon-d4], Zolpidem (10 ng/ml) (Zolpidem-d6), Zopiclone (20 ng/ml) (Zopiclone-d4).
HU8JYD	internal standards mepivacaine, thc-cooh int. std and diazepam d5
J26FHA	LC-HRMS/MS used for screening method. Internal standards: Mepivacaine, THC-COOH-d3, Diazepam-d5
J4A4XZ	Cutoff for reporting cannabinoids is 1 ng/mL for all analytes. Results reporting is qualitative only. Benzodiazepines confirmation not currently analyzed in laboratory testing; no further analysis to be completed on positive screen result.
KBL6GZ	The LC-QTOF qualitative analysis also indicated the presence of methadone, EDDP, cetirizine, norvenlafaxine and tianeptine. As these were present in the other exhibits, they were not reported. The LOQ for diazepam is 10 ng/mL and the internal standard is diazepam-D5. We do not confirm cannabinoids at this time, we report them as indicated.
KMEQF4	Butyl Acetate Screen - Promazine (IStd), Benzodiazepine Confirmation - Prazepam (IStd), THC Quant - deuterated standards
LZPT28	Mepivacaine and mephobarbital were the internal standards used for the high resolution accurate mass spectrometry during drug screening. Diazepam-d5 was the internal standard used for the LC/MS/MS confirmation of diazepam and testing for certain benzodiazepines. Gabapentin-d4 and mepivacaine were the internal standards used for LC/MS/MS confirmation of gabapentin and testing for certain other basic drugs. Gabapentin was detected during testing; possible artifact from specimen. Additional drugs detected in screen were <LOR during confirmation testing.
M42ZZQ	Methadone limit of detection 12.5 ng/mL, not detected by confirmation method. Confirmation is pending for other identified drugs
MFV32T	Internal standard tetracosane
ML2D87	Methadone confirmed at similar, low level concentrations in all three proficiency test samples. The Methadone appears to be inherent to the proficiency test matrix.
MTFKUW	Presumptive result for cannabinoids immunoassay reported without pursuing confirmation. Diazepam-D5 used as internal standard for quantitative analysis. Other analytes were detected via LC-QTOF but were below threshold for quantitation.
MWHEUM	Mepivacaine -Internal Standard Methadone detected below cutoff by LC-QTOF-MS and GCMS THC-COOH indicated by LC-QTOF-MS, but Immunoassay was not indicative.

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
MYNK48	<p>Immunoassay: Methadone cutoff: 10ng/mL; Benzodiazepines 1 Target: Oxazepam cutoff: 10ng/mL. LC/MS/MS: Analyte (cutoff) (IS) - Alprazolam (10 ng/ml) (Alprazolam-d5), Aminoclonazepam (5 ng/ml) (Aminoclonazepam-d4), Aminoflunitrazepam (5 ng/ml) (Aminoflunitrazepam-d7), Bromazepam (5 ng/ml) (Bromazepam-d4), Buspirone (5 ng/ml) (Buspirone-d8), Chlordiazepoxide (20 ng/ml) (Chlordiazepoxide-d5), Clobazam (20 ng/ml) (Estazolam-d5), Clonazepam (5 ng/ml) (Clonazepam-d4), Clonazolam (10 ng/ml) (Clonazepam-d4), Delorazepam (10 ng/ml) (Delorazepam-d4), Demoxepam (20 ng/ml) (Demoxepam-d5), Desaklyflurazepam (5 ng/ml) (Desalkylflurazepam-d4), Deschloroetizolam (5 ng/ml) (Deschloroetizolam-d5), Desmethylflunitrazepam (5 ng/ml) (Desmethylflunitrazepam-d4), Diazepam (20 ng/ml) (Diazepam-d5), Diclazepam (5 ng/ml) (Diclazepam-d4), Diphenhydramine (20 ng/ml) (Diphenhydramine-d3), Doxylamine (20 ng/ml) (Doxylamine-d5), Estazolam (10 ng/ml) (Estazolam-d5), Etizolam (5 ng/ml) (Etizolam-d3), Flualprazolam (5 ng/ml) (Triazolam-d4), Flubromazepam (10 ng/ml) (Nordiazepam-d5), Flubromazolam (10 ng/ml) (Triazolam-d4), Flunitrazepam (5 ng/ml) (Flunitrazepam-d7), Flurazepam (5 ng/ml) (Flurazepam-d4), Hydroxalprazolam (10 ng/ml) (Hydroxalprazolam-d5), Hydroxyetizolam (5 ng/ml) (Bromazepam-d4), Hydroxymidazolam (10 ng/ml) (Hydroxymidazolam-d4), Hydroxyphenazepam (20 ng/ml) (Oxazepam-d5), Hydroxytriazolam (10 ng/ml) (Clonazepam-d4), Hydroxyzine (20 ng/ml) (Hydroxyzine-d8), Lorazepam (10 ng/ml) (Lorazepam-d4), Midazolam (10 ng/ml) (Midazolam-d4), Nitrazepam (20 ng/ml) (Nordiazepam-d5), Nordiazepam (20 ng/ml) (Nordiazepam-d5), Oxazepam (20 ng/ml) (Oxazepam-d5), Phenazepam (20 ng/ml) (Triazolam-d4), Temazepam (20 ng/ml) (Temazepam-d5), Triazolam (5 ng/ml) (Triazolam-d4), Zaleplon (10 ng/ml) (Zaleplon-d4), Zolpidem (10 ng/ml) (Zolpidem-d6), Zopiclone (10 ng/ml) (Zopiclone-d4).</p>
MZCHEE	<p>Analysis by high performance liquid chromatography/tandem mass spectrometry in whole blood for: Opiates, Opioids, and Stimulants confirmation panel: Analyte Quantitative Range (ng/mL) Fentanyl 0.5 – 50 Norfentanyl 0.5 – 50 (QC failed, data not reported) Codeine 5.0 – 500 Hydrocodone 5.0 – 500 Morphine 5.0 – 500 Hydromorphone 5.0 – 500 Oxycodone 5.0 – 500 Oxymorphone 5.0 – 500 Methadone 20 – 2000 EDDP 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 Cocaine 20 – 2000 Benzoyllecgonine 20 – 2000 Benzodiazepines confirmation panel: Analyte Quantitative Range (ng/mL) Midazolam 5 – 500 Alpha-hydroxalprazolam 5 – 500 Lorazepam 5 – 500 Clonazepam 5 – 500 Alprazolam 5 – 500 7-aminoclonazepam 5 – 500 Temazepam 20 – 2000 Chlordiazepoxide 20 – 2000 Oxazepam 20 – 2000 Diazepam 20 – 2000 Nordiazepam 20 – 2000 Measurement uncertainty is reported at a 95.45% level of confidence for all quantitative blood drug analyses. Analysis by immunoassay screening in whole blood for: Assay Cutoff* (ng/mL) Meth /Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Meprobamate 100 Methadone 10 Opiates 10 Opioids 10 Phencyclidine 5 TCA 25 Tramadol 5 Zolpidem 10 * Results within 20% of these concentrations are also reported as preliminarily positive. [Participant submitted data in a format that could not be reproduced in this report.]</p>
NEUM22	<p>The upper limit of quantitation for our benzodiazepine procedure is 250 ng/ml. The diazepam final result was calculated from a 10-fold dilution of the sample.</p>
NHG6T	<p>Estazolam was used as internal standard</p>
NUJWN4	<p>It is our policy to report as greater than our highest calibrator for benzos (250 ng/mL) for DUI/living cases. No dilution to get the result within range of our calibration curve is needed due to type of case. Methadone is a qualitative only drug from our basic extraction.</p>
NWDJF	<p>Quantitation was performed for cannabinoids with LC/MS/MS. No Delta-9 THC was reported, however the Delta-9 THC Carboxy was observed qualitatively.</p>

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
NZ2CWN	Screening: Immunoassay and UPLC-QTOF MS (Waters). For UPLC-QTOF MS - Internal Standards: Cyclobarbitone, Prazepam & D3-Methadone, Diazepam: Quantitative Analysis. Instrument: UPLC-TQD (Waters). Internal Standard: D5-Diazepam, LOD: 1 ng/mL. Delta-9-THC Acid: Quantitation for Delta-9-THC Acid: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS-MS) in Multiple Reaction Monitoring (MRM) mode. Internal Standard: Deuterated analogues of THC, and THC Acid. LOD for Delta-9-THC Acid: 0.2 ng/mL. Methadone: UPLC-QTOF MS (Waters). LOD for Methadone: 1 ng/mL
P3LKJU	No confirmatory analysis for benzodiazepines was performed. The qualitative confirmation test for benzodiazepines is off-line and a new method is currently being validated. Delta-9-THC was not detected in the blood sample. Internal Standards: Deuterated Delta-9-THC and deuterated Carboxy-THC, LOQ for Delta-9-THC: 2 ng/mL, LOQ for Carboxy-THC: 5 ng/mL
PAEA6K	O-desmethylvenlafaxine was not confirmed. Acetaminophen, Cotinine, and Naproxen were indicated. Internal standard used was Mepivacaine.
PRVKPX	IS used in QTOF analyses: Fentanyl-D5, Imipramine-D3, MDMA-D5, Methaqualone-D7, and Triazolam-D4. IS used for LC/MS/MS quantitation: Diazepam-D5. LOQ (Diazepam) = 10 ng/mL. Caffeine, Cetirizine, EDDP, Methadone, Norvenlafaxine and Tianeptine disregarded. Cannabinoids reported as indicated with a single test by ELISA immunoassay; no confirmatory testing performed.
PT8HU3	The toxicology [laboratory] does not quantitate benzodiazepines above 250ng/mL.
PU66T7	Deuterated internal standards used for quantitation of THC-COOH and diazepam.
Q7EL2H	Internal standard used: Mepivacaine
RHGBCN	Internal standard: Flurazepam and tetracosane.
RPM6DC	THC Extraction data: Delta-9 THC <0 ng/mL (LOQ=1ng/mL), 11-Nor-9-Carboxy-Delta-9-THC 8.50 ng/mL w/ ion ratio failure - cannot report (LOQ=5 ng/mL), 11-Hydroxy-Delta-9-THC <0 ng/mL (LOQ=1ng/mL). OPB Extraction data: Methadone 0.00 ng/mL
RXJJAC	Sample was screened using Immunoassay and LC/MS/MS. Confirmation testing was performed using LC/MS/MS for cannabinoids but no drugs identified. Diazepam and methadone confirmation tests not performed.
TALUX6	Diazepam quantitation range : 5ng/mL - 250 ng/mL. Sample was analyzed as a 1:5 dilution for quantitation. Raw diazepam result: $147.60 (x 5) = 738.00$
TK2KYV	Benzodiazepine confirmation is not currently being performed.
TPAAVA	DOA Ultra Whole Blood Array on Randox Evidence Investigator was conducted. The Limits of detection of the various analytes are listed below. Oxycodone-10ng/mL, Opiate-10ng/mL, Generic Opioids- 10ng/mL, Dextromethorphan-5ng/mL, Meprobamate- 100ng/mL, Amphetamine-20ng/mL, Barbiturates-50ng/mL, Benzodiazepines-10ng/mL, Methadone-10ng/mL, Phencyclidine-5ng/mL, Cocaine Metabolite (BZG)-50ng/mL, Zolpidem-10ng/mL, Tricyclic Antidepressants (TCA) -60ng/mL, Cannabinoids (THC)-10ng/mL, Tramadol 5ng/mL, Fentanyl 1ng/mL, Buprenorphine-1 ng/mL
TZ3XDC	o-desmethylvenlafaxine was below cutoff for confirmation.
ULB46A	Diazepam: LC/MS/MS for screen (LOD 5ng/mL) and GC/MS for confirmation/quantitation (LOQ 40ng/mL). THC: Immunoassay for screen and LC/MS/MS for confirmation/quantitation. No reportable amount was found. (LOQ 1ng/mL for Delta-9 and THC-OH, 5ng/mL for COOH-THC). Methadone: LC/MS/MS for screen (10ng/mL) and GC/MS for confirmation/quantitation (LOQ 40ng/mL). No reportable amount was found. (LOQ 40ng/mL for Methadone)

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
UVXCH7	<p>Analysis by immunoassay screening in whole blood for: Assay Cutoff* (ng/mL) Meth /Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Meprobamate 100 Methadone 10 Opiates 10 Opioids 10 Phencyclidine 5 TCA 25 Tramadol 5 Zolpidem 10 * Results within 20% of these concentrations are also reported as preliminarily positive. Opiates, Opioids, and Stimulants confirmation panel: Analyte Quantitative Range (ng/mL) Fentanyl 0.5 – 50 Norfentanyl 0.5 – 50 Codeine 5.0 – 500 Hydrocodone 5.0 – 500 Morphine 5.0 – 500 Hydromorphone 5.0 – 500 Oxycodone 5.0 – 500 Oxymorphone 5.0 – 500 Methadone 20 – 2000 EDDP 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 Cocaine 20 – 2000 Benzoyllecgonine 20 – 2000 Benzodiazepines confirmation panel: Analyte Quantitative Range (ng/mL) Midazolam 5 – 500 Alpha-hydroxyalprazolam 5 – 500 Lorazepam 5 – 500 Clonazepam 5 – 500 Alprazolam 5 – 500 7-aminoclonazepam 5 – 500 Temazepam 20 – 2000 Chlordiazepoxide 20 – 2000 Oxazepam 20 – 2000 Diazepam 20 – 2000 Nordiazepam 20 – 2000 Measurement uncertainty is reported at a 95.45% level of confidence for all quantitative blood drug analyses. [Participant submitted data in a format that could not be reproduced in this report.]</p>
V7TMM7	Diazepam D5 is used as an Internal Standard.
V7ZPJ7	Item 1 also screened presumptive positive on immunoassay for methadone. Our laboratory is not currently able to confirm this compound. These results are from the pre-distribution analysis.
VKGPA6	diazepam LOQ 5ng/ml; ISTD Diazepam-d5, methadone LOQ 5ng/ml; ISTD Methadone-d9, THC-COOH LOQ 5ng/ml; ISTD THC-COOH-d9
W93N7P	Limit of detection for methadone is 6.25 ng/mL. Limit of detection for carboxy-tetrahydrocannabinol is 5 ng/mL
WVTEJU	<p>Internal standards: Prazepam (Benzodiazepine confirmation), delta9-THC-d3 and delta9-THC-COOH-d3 (THC-COOH confirmation), and Promazine (GCMS drug screen). Delta9-THC-COOH qualitative confirmation performed in part of LC/MS/MS quantitation of delta9-THC. Laboratory limit of detection/quantitation for delta9-THC is 2ng/mL. Values qualitatively detected below that limit are reported as "not detected". Measurement uncertainty data is only included when a quantitative value is reported.</p>
XMU6RV	GC/FID for quantitation and confirmation
XN67DU	<p>ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Cannabinoid confirmation panel includes THC, carboxy-THC and hydroxy-THC. LOD for THC and hydroxy-THC is 0.5ng/ml and LOQ is 1ng/ml. LOD for carboxy-THC is 2.5ng/ml and LOQ is 5ng/ml. THC-D3, COOH-THC-D3 and 11-OH-THC-D3 used as internal standards. Benzodiazepine confirmation panel includes alprazolam, diazepam, 7-aminoclonazepam, clonazepam, lorazepam, nordiazepam, oxazepam and temazepam. LOD for the panel is 5ng/ml. LOQ for the panel is 10ng/ml. Alprazolam-D5, diazepam-D5, 7-aminoclonazepam-D4, clonazepam-D4, nordiazepam-D5, oxazepam-D5 and temazepam-D5 were used as internal standards. Methadone confirmation panel used methadone-D3 as the internal standard. Methadone has a LOD of 5ng/ml and a LOQ of 10ng/ml.</p>
YHVCTX	<p>Internal Standards: 11-HydroxyDelta-9 THC-d3, Delta-9Carboxy-d3, CBD-d3, Delta-9 THC-d3, diazepam-d5, hydromorphone-d3, oxycodone-d3, phenyltoloxamine, buprenorphine-d4, diphenhydramine-d3. Delta-9 Carboxy THC LOD: 5ng/mL</p>

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
YQCLML	<p>ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Benzodiazepine confirmation panel includes alprazolam, diazepam, 7-aminoclonazepam, clonazepam, lorazepam, nordiazepam, oxazepam and temazepam. LOD for the panel is 5ng/mL. LOQ for the panel is 10ng/mL. Alprazolam-D5, diazepam-D5, 7-aminoclonazepam-D4, clonazepam-D4, nordiazepam-D5, oxazepam-D5, and temazepam-D5 were used as internal standards. Cannabinoid confirmation panel includes THC, carboxy-THC and 11-hydroxy-THC. LOD for THC and 11-hydroxy-THC is 0.5ng/mL and LOQ is 1ng/mL. LOD for carboxy-THC is 2.5ng/mL and LOQ is 5ng/mL. THC-D3, carboxy-THC-D3 and 11-OH-THC-D3 used as internal standards. Methadone confirmation panel uses methadone-D3 as an internal standard. Methadone has a LOD of 5 ng/mL and LOQ of 10 ng/mL. Drug results quantitating below the LOQ but greater than the LOD are reported as present, less than (LOQ value).</p>
Z7427C	<p>THC not reportable, Delta-9-THC <0, 11-nor-9-Carboxy-Delta-9-THC 8.98#, 11-Hydroxy-Delta-9-THC <0. Methadone (4.64ng/mL) not reportable</p>
ZDLTRN	<p>THC-COOH was screened via LC/MS/MS and confirmed using GC/MS/MS. Methadone: A sample with a concentration that is between the lower limit of quantitation (10 ng/mL) and 50% of the lower limit of quantitation is considered "Trace" and reported as None Detected. Trace result alone does not require a 2nd analysis. However, a positive result from a 2nd analysis is reported if it is above the lower limit of quantitation. In this case methadone results were both below the limit of quantitation. Therefore, methadone was reported None Detected.</p>
ZEYJHK	<p>GC-QQQ analysis was performed on each item number for cannabinoid determination. COOH_THC results are qualitative only.</p>
ZLRDEC	<p>LC/MS/MS analysis was performed as a quantitation but the reported analyte (delta-9 carboxy THC) was evaluated qualitatively due to no delta-9 THC observed in the sample.</p>

Screening Results - Item 2

TABLE 2A

Item Scenario:

Case 2: A 45 year-old female was found unresponsive in her hospital bed after being admitted for suspected drug overdose. Blood samples were collected at the autopsy.

Item Contents and Preparation Concentration: d-Methamphetamine 2,000 ng/mL
Methadone 9.3 ng/mL*

*This value is the Grand Mean compiled by quantitative results by at least 10 participants (see Manufacturer's Information).

WebCode	Screening Results
26KJHW	Methamphetamine
2BCNF8	amphetamines
2C2Y7Z	Methamphetamine, Amphetamine, Methadone, EDDP, MDMA
2KWWAP	methamphetamine
2PVNNY	Gabapentin, Amphetamine, Methamphetamine, Desmethylvenlafaxine, Methadone, EDDP
2RY3TY	Methamphetamine, Methadone
33PF4F	Illicit stimulants: Methamphetamine.
346LLQ	SMA
3CHL49	Methamphetamine
3KVYKX	gabapentin, methamphetamine, desmethylvenlafaxine, EDDP, methadone, amphetamine
3LNB2D	No drugs detected utilizing screening methods.
47L9T4	Methamphetamine
48X3BP	Sympathomimetic Amines (SMAs) - Methamphetamine
4AWKZQ	methamphetamine gabapentin desmethylvenlafaxine methadone eddp amphetamine acetaminophen
4JU4W7	Methamphetamine. See 2.6. [Table 2F: Additional Comments for Item 2]
4XYL9K	Methamphetamine, Amphetamine, Methadone
4Y4XHN	Amphetamine (class), Possible SMA (Methamphetamine)
6767L2	Amphetamines
67P9D6	Methamphetamine, Methadone
69QAH8	Amphetamine, Methadone, Methamphetamine
7M2FJX	Methamphetamine
8KD4JR	SMA
8XLZMU	Methamphetamine, Amphetamine, Methadone

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
A38JWN	Methamphetamine
A3L2X9	Methamphetamine and Methadone
AB2PQP	Amphetamine class
AV6PMT	Amphetamine, Methadone, Methamphetamine
B6RTJU	Methamphetamine
B74G8Z	Methadone, EDDP, Amphetamine, Methamphetamine
BD3AXL	Methamphetamine
CKYA6M	Methadone, methamphetamine, tianeptine
CYWEEJ	Methamphetamine
D4TXWE	illicit stimulants (methamphetamine)
DGDZFL	methamphetamine
DGYUFG	Methamphetamine
DJAUGG	methamphetamine
DQKUEK	No drugs detected utilizing screening methods.
DZQNMR	No drugs detected utilizing screening methods.
E393QR	Methamphetamine/amphetamine class, methadone
EA8UUF	SMA class
ERU7MA	Methamphetamine
ERY3ED	amphetamine, methamphetamine
EVC4HR	Methamphetamine
EXE4F3	Methamphetamine
EZJUKW	Amphetamines
F82KLH	Methamphetamine
FCWUTG	Methamphetamine/MDMA
FKB3F8	Methamphetamine
FKP3E8	Methamphetamine, Methadone
FY9C2R	methamphetamine
G2RNFN	Amphetamine class

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
G36WJM	Amphetamines (MAMP)
GDHLXD	Methamphetamine
GL4PPU	Amphetamine, Methamphetamine, Methadone
GTXFUW	Amphetamines
GU6ZEQ	Methamphetamine / MDMA
HEBQBK	Amphetamine, Methadone, Methamphetamine
HF9VVL	Amphetamine, Methadone, Methamphetamine
HTF8KE	Methamphetamine
HU8JYD	acetaminophen, gabapentin, amphetamine, methamphetamine, norvenlafaxine, eddp, methadone
HYDMML	Amphetamine/Methamphetamine
HYYCTM	SMA
J26FHA	Methamphetamine
JJNABK	methamphetamine, methadone, amphetamine (analyst discretion)
K3VWCH	Amphetamine, Methadone, Methamphetamine
KBL6GZ	methamphetamine, amphetamine
KH72JP	Methamphetamine & MDMA
KMEQF4	Amphetamine Class
LG6UAA	Methamphetamine
LLJWH6	methamphetamine
LZPT28	gabapentin, amphetamine, methamphetamine, norvenlafaxine, EDDP, methadone
M2AQMx	Methamphetamine
M42ZZQ	methamphetamine, methadone, gabapentin, tianeptine, O-desmethylvenlafaxine, phenibut
MFV32T	No drugs detected utilizing screening methods.
MKPBMT	AMPHETAMINE, METHAMPHETAMINE
ML2D87	Methamphetamine
MTFKUW	Methamphetamine
MYNK48	Methamphetamine/Methylenedioxymethamphetamine, Methadone
MZCHEE	Methamphetamine, Methadone

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
N33X9M	Methamphetamine
N8VGPP	methamphetamine, desmethylvenlafaxine, EDDP, methadone
NEUM22	methamphetamine
NHDG6T	Methamphetamine
NLEJBH	Amphetamine, Methamphetamine, Methadone
NPBCZ7	Methamphetamine
NU9N4J	Amphetamine, Methadone, Methamphetamine
NUJWN4	Methamphetamine
NWDJF	Amphetamines
NZ2CWN	Amphetamine, Methylamphetamine
P3LKJU	Amphetamines
PAEA6K	Methamphetamine/MDMA, Gabapentin, O-desmethylvenlafaxine
PAUXXY	ELISA positive for Methamphetamine
PCKDPZ	methamphetamine, cetirizine, caffeine, gabapentin, methadone, O-desmethylvenlafaxine, phenibut, telmisartan, tianeptine
PRVKPX	Methamphetamine
PT8HU3	Methamphetamine
PU66T7	illicit stimulants- amphetamine and methamphetamine
Q2MUT7	amphetamines
Q7EL2H	Methamphetamine/MDMA, Gabapentin, Acetaminophen, Cotinine, Naproxen, O-desmethylvenlafaxine
QCE8K6	Methamphetamine Positive
QHN3QZ	Methamphetamine
QUCAHA	Methamphetamine
QUXZDF	Methamphetamine
RPM6DC	Amphetamine, Methadone, Methamphetamine
RUX3XD	Methamphetamine/amphetamine class, Methadone
RXJJAC	Amphetamine, Methadone, Methamphetamine
TALUX6	Methamphetamine

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
TK2KYV	Methamphetamines
TPAAVA	Methamphetamine
TZ3XDC	Amphetamine, methadone, methamphetamine, (o-desmethylvenlafaxine also indicated in analyst discretion range)
ULB46A	Amphetamine, Methamphetamine and Methadone
UVXCH7	Methamphetamine, Methadone
V7TMM7	Amphetamines
V7ZPJ7	Methamphetamine, amphetamine, methadone
VKGPA6	Amphetamine, Methadone, Methamphetamine
VQKQ8D	amphetamine, methamphetamine, & methadone
VYAPV	SMA
W6WRGA	Methamphetamine
W93N7P	Methamphetamine, Methadone
WDQWBB	Methamphetamine
WEJRTC	Methylamphetamine
WVTEJU	SMA's
XMU6RV	Methamphetamine, Methadone
XN67DU	methamphetamine, methadone
YB499F	methylamphetamine
YCPGD4	Amphetamines
YHVCTX	Methamphetamine, Methadone, Tianeptine
YQCLML	Methamphetamine, methadone
Z7427C	Amphetamine, Methamphetamine, Methadone,
ZDLTRN	Methamphetamine, Methadone
ZEYJHK	Gabapentin, Methamphetamine
ZLRDEC	Amphetamines

Screening Response Summary for Item 2		Participants: 131
d-Methamphetamine:	106	
Methadone:	45	
Amphetamines:	52	
Other Drugs Detected:	58	
No Drugs Detected	4	
Utilizing Screening Methods:		

Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
4Y4XHN	Methamphetamine	✓			
6767L2	Methamphetamine		>1000		ng/mL
69QAH8	Methamphetamine	✓			
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine	✓			
7M2FJX	Methamphetamine	✓			
8KD4JR	Methamphetamine	✓			
8XLZMU	Methamphetamine		Present greater than 1000 ng/mL		
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		Present below limit of quantitation		
A38JWN	Methamphetamine		>1.0		ug/mL
	Methadone		11	+/-18%	ng/mL
A3L2X9	Methamphetamine	✓			
AB2PQP	Methamphetamine	✓			
AV6PMT	Methamphetamine		1678.55	268.56	ng/mL
	Methadone		10.07	1.00	ng/mL
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		5.19	1.03	ng/mL
B74G8Z	Methamphetamine		1857.99	297.28	ng/mL
	Methadone		9.16	1.65	ng/mL
BD3AXL	Methamphetamine		>2.0		ug/mL
	Methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		<0.05		ug/mL
CKYA6M	methamphetamine	✓			
	methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	amphetamine	✓			
	tianeptine	✓			
CYWEEJ	Methamphetamine		2.3	0.4	ug/mL
	Methadone	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
D4TXWE	methamphetamine		1.8	0.5	mg/L
DGDZFL	methamphetamine	✓			
	methadone	✓			
DGYUFG	Methamphetamine		1672	535	ng/mL
DJAUGG	Methamphetamine		2.0	+/-0.5	mg/L
E393QR	Methamphetamine		2400		ng/mL
	Methadone		Less than 10		ng/mL
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		Less than 5.0		ng/mL
EA8UUF	Methamphetamine	✓			
ERU7MA	Methamphetamine	✓			
ERY3ED	methamphetamine	✓	1.9	0.5	mg/L
EVC4HR	Methamphetamine	✓			
EXE4F3	Methamphetamine		2400	42,3	ng/mL
EZJUKW	Methamphetamine		1956	87	ug/L
F82KLH	methamphetamine		1700	40%	ng/ml
FKB3F8	Methamphetamine	✓			
FKP3E8	Methamphetamine		>1000		ng/mL
	Methadone		10.0	1.5	ng/mL
FY9C2R	methamphetamine	✓			
	methadone	✓			
G2RNFN	methamphetamine		1758	+/-247	ug/L
G36WJM	Methamphetamine		>1000		ng/mL
GDHLXD	Methamphetamine	✓			
GL4PPU	Methamphetamine	✓			
GTXFUW	Methamphetamine		1855	116	ug/L
HEBQBK	Methamphetamine		1399.84	223.97	ng/mL
	Methadone		9.57	0.95	ng/mL
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		5.82	1.16	ng/mL

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
HF9VVL	Methamphetamine	✓			
HTF8KE	Methamphetamine		1.95	0.31	mcg/mL
HU8JYD	methamphetamine		1.9	+/- 0.5	mg/L
HYDMML	Methamphetamine		716		ng/ml
HYYCTM	Methamphetamine	✓			
J26FHA	methamphetamine		1.9	0.5	mg/L
JJNABK	Methamphetamine		>500		ng/mL
	Methadone		9.10	1.00	ng/mL
K3VWCH	Methamphetamine	✓			
KBL6GZ	Methamphetamine		2.0	0.2	mg/L
KH72JP	Methamphetamine		2.0	30%	ug/mL
KMEQF4	Methamphetamine	✓			
LG6UAA	Methamphetamine		989		ng/ml
LLJWH6	methamphetamine		2.2	0.6	mg/L
LZPT28	methamphetamine		2.0	0.5	mg/L
M2AQMXX	Methamphetamine		2.2	0.3	mg/L
M42ZZQ	methamphetamine		2.2	+/-0.3	mg/L
MFV32T	Methamphetamine.	✓			
MKPBMT	METHAMPHETAMINE		2.0	15	mg/L
	<u>Additional Analyte(s) Reported</u>				
	AMPHETAMINE		DET <0.01	15	mg/L
ML2D87	Methamphetamine		1949	253	ng/mL
	Methadone		11	1	ng/mL
MTFKUW	Methamphetamine		2.2	0.3	mg/L
MYNK48	Methamphetamine		2.02	0.32	mcg/mL
MZCHEE	Methamphetamine		1392	175	ng/mL
N33X9M	Methamphetamine		>2000	NA	ng/mL

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?						
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units	
N8VGPP	methamphetamine		1927	400	ng/mL	
	methadone	✓				
	<u>Additional Analyte(s) Reported</u>					
	desmethylvenlafaxine	✓				
	EDDP					
	Gabapnetin		430	120	ng/mL	
NEUM22	methamphetamine		2.1	+/-0.34	ug/ml	
	methadone	✓				
	<u>Additional Analyte(s) Reported</u>					
	amphetamine		<0.05		ug/ml	
NHDG6T	Methamphetamine	✓				
NLEJBH	Methamphetamine	✓				
NPBCZ7	Methamphetamine		2.2	0.36	ug/mL	
	Methadone	✓				
NU9N4J	Methamphetamine	✓				
	<u>Additional Analyte(s) Reported</u>					
	Amphetamine	✓				
NUJWN4	Methamphetamine		2.0	+/- 16.24 at k=2,95.45%	ug/mL	
	Methadone	✓	Positive		ug/mL	
NWDJJF	Methamphetamine		2042	129	ug/l	
NZ2CWN	Methylamphetamine		1800		ng/mL	
	Methadone		<50	<10	ng/mL	
	<u>Additional Analyte(s) Reported</u>					
	Amphetamine		<10		ng/mL	
P3LKJU	Methamphetamine		1799	+/- 470	ng/mL	
	<u>Additional Analyte(s) Reported</u>					
	Amphetamine		Detected			
PAEA6K	Methamphetamine	✓				
	<u>Additional Analyte(s) Reported</u>					
	Gabapentin	✓				
PAUXXY	Methamphetamine		2.0	+/- 16.24%	ug/mL	
	Methadone	✓				

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
PCKDPZ	Methamphetamine		2.05	0.15	mg/L
	methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	caffeine	✓			
	cetirizine	✓			
	gabapentin	✓			
	o-desmethylvenlafaxine				
	phenibut	✓			
	telmisartan	✓			
	tianeptine	✓			
PRVKPX	Methamphetamine		1.9	0.2	mg/L
PT8HU3	Methamphetamine		2.0 ug/mL	16.24%	ug/mL
	Methadone	✓			
PU66T7	Methamphetamine		2.1	0.5	mg/L
Q2MUT7	methamphetamine		>1000		ng/mL
Q7EL2H	Methamphetamine	✓			
	<u>Additional Analyte(s) Reported</u>				
	Gabapentin	✓			
QCE8K6	Methamphetamine		1.8	+/- 0.3	ug/mL
	Methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		<0.05	N/A	ug/mL
QHN3QZ	Methamphetamine		2.2	16.24%	ug/mL
QUCAHA	Methamphetamine		Greater than 1000 ng/mL		
QUXZDF	Methamphetamine		1799.93	305.99	ug/L
RHGBCN	Methamphetamine	✓			
	<u>Additional Analyte(s) Reported</u>				
	Caffeine	✓			
RPM6DC	Methamphetamine	✓			
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
RUX3XD	Methamphetamine		2300		ng/mL
	Methadone		Less than 10		ng/mL
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		Less than 10		ng/mL
TALUX6	Methamphetamine		2.3	0.4	ug/mL
	Methadone	✓			
TK2KYV	Methamphetamine		1947	389	ng/mL
TZ3XDC	Methamphetamine		>500	+/- 26%	ng/mL
	Methadone		8.70	+/- 11%	ng/mL
ULB46A	Methamphetamine	✓			
UVXCH7	Methamphetamine		1483	187	ng/mL
V7TMM7	Methamphetamine	✓			
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine	✓			
V7ZPJ7	Methamphetamine		Present greater than 1000 ng/mL		ng/mL
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine		Present below limit of quantitation		ng/mL
VKGPA6	Methamphetamine		1642.11	262.73	ng/ml
	Methadone		9.32	0.93	ng/ml
VQKQ8D	methamphetamine	✓			
	methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	amphetamine	✓			
WYAPV	Methamphetamine	✓			
W6WRGA	Methamphetamine	✓			
W93N7P	Methamphetamine	✓			
	Methadone	✓			
WDQWBB	Methamphetamine	✓			
WVTEJU	Methamphetamine	✓			
XMU6RV	Methamphetamine		1.9	16.24%	ug/mL
	Methadone	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
XN67DU	Methamphetamine		1.7	± 0.3	µg/ml
	Methadone		present, <10	N/A	ng/ml
YB499F	methylamphetamine		2.0280	12.9%	mg/L
YCPGD4	Methamphetamine		>1.2		mg/L
YHVCTX	Methamphetamine	✓			
	Methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine	✓			
YQCLML	methamphetamine		1.8	±0.3	µg/ml
	methadone		present, <10	N/A	ng/mL
Z7427C	Methamphetamine	✓			
	<u>Additional Analyte(s) Reported</u>				
	Amphetamine	✓			
ZDLTRN	Methamphetamine		> 1000		ng/mL
	Methadone		None Detected		
ZEYJHK	Methamphetamine	✓			
	<u>Additional Analyte(s) Reported</u>				
	Gabapentin	✓			
ZLRDEC	Methamphetamine		2089	88	ug/L

Confirmatory Response Summary for Item 2		Participants: 122
d-Methamphetamine:	122	
Methadone:	38	
Other Identified Drugs/Metabolites:	38	
No Drugs/Metabolites Detected	0	
Utilizing Confirmatory Methods:		

Total number of confirmatory responses above may be more than the number of participants due to multiple drugs/ metabolites being reported.

Raw Data - Item 2

TABLE 2C

Item 2 Raw Data - d-Methamphetamine
Preparation concentration: 2,000 ng/mL

WebCode	List of Raw Data determinations (ng/mL)						Participant Mean
26KJHW	2,399.0						2,399.0
2C2Y7Z	1,917.8	1,927.3					1,922.6
2KWWAP	1,896.0						1,896.0
2PVNNY	1,895.9						1,895.9
3CHL49	2,281.6						2,281.6
3KVYKX	1,758.8	1,745.1					1,752.0
4AWKZQ	1,957.7						1,957.7
8XLZMU	2,022.8	2,166.3					2,094.5
AV6PMT	1,678.6						1,678.6
B74G8Z	1,858.0						1,858.0
BD3AXL	2,050.0						2,050.0
CYWEEJ	2,312.0						2,312.0
D4TXWE	1,817.1	1,822.7					1,819.9
DGYUFG	1,672.0						1,672.0
DJAUGG	2,019.4						2,019.4
E393QR	2,359.7						2,359.7
ERY3ED	1,892.6						1,892.6
EXE4F3	2,400.0						2,400.0
EZJUKW	1,956.0						1,956.0
F82KLH	1,700.0						1,700.0
G2RNFN	1,758.0						1,758.0
G36WJM	1,730.7						1,730.7
GTXFUW	1,855.4						1,855.4
HEBQBK	1,399.8						1,399.8
HTF8KE	1,950.0						1,950.0
HU8JYD	1,900.9						1,900.9
HYDMML	176.20	183.50	172.90	184.87	180.37	175.69	178.90 X
J26FHA	1,919.2						1,919.2
JJNABK	928.52						928.50 X
KBL6GZ	2,030.0	1,970.0					2,000.0
KH72JP	2,017.0						2,017.0
LG6UAA	942.82	1,036.0					989.40 X

TABLE 2C: Raw Data - Item 2
Item 2 Raw Data - d-Methamphetamine
Preparation concentration: 2,000 ng/mL

WebCode	List of Raw Data determinations (ng/mL)				Participant Mean
LLJWH6	2,220.4				2,220.4
LZPT28	1,974.6				1,974.6
M2AQMx	2,125.0	2,180.0			2,152.5
M4ZZZQ	2,187.0				2,187.0
MKPBMT	1,991.0	1,971.0			1,981.0
ML2D87	1,949.4				1,949.4
MTFKUW	2,220.0	2,060.0	2,250.0	2,090.0	2,155.0
MYNK48	2,023.0				2,023.0
MZCHEE	1,391.5				1,391.5
N33X9M	2,034.6				2,034.6
N8VGPP	1,862.0	1,992.0			1,927.0
NEUM22	422.00				422.00 X
NPBCZ7	2,225.0				2,225.0
NUJWN4	2,021.0				2,021.0
NWDJJF	2,087.8	1,996.7			2,042.2
NZ2CWN	1,813.0	1,780.0			1,796.5
P3LKJU	1,799.8				1,799.8
PAUXXY	2,027.0				2,027.0
PCKDPZ	2,026.7	2,064.2			2,045.5
PRVKPX	1,890.0	1,960.0	1,880.0	1,970.0	1,925.0
PT8HU3	2,049.0				2,049.0
PU66T7	2,064.8				2,064.8
QCE8K6	1,850.0				1,850.0
QHN3QZ	2,205.0				2,205.0
QUXZDF	1,821.8	1,778.1			1,799.9
RUX3XD	2,279.3				2,279.3
TALUX6	2,330.0				2,330.0
TK2KYV	1,947.0				1,947.0
TZ3XDC	1,048.8				1,048.8 X
UVXCH7	1,483.4				1,483.4
V7ZPJ7	1,813.4	1,861.6			1,837.5
VKGPA6	1,642.1				1,642.1
XMU6RV	1,965.0				1,965.0

TABLE 2C: Raw Data - Item 2
Item 2 Raw Data - d-Methamphetamine
Preparation concentration: 2,000 ng/mL

WebCode	List of Raw Data determinations (ng/mL)	Participant Mean
XN67DU	1,795.2	1,795.2
YQCLML	1,872.0	1,872.0
ZLRDEC	2,049.0 2,128.4	2,088.7

Statistical Analysis for Item 2 - d-Methamphetamine			
Grand Mean	1,960.88	Number of Participants Included	63
Standard Deviation	219.02	Number of Participants Excluded	5

TABLE 2C: Raw Data - Item 2

Item 2 Raw Data - Methadone
Preparation concentration: 9.3 ng/mL*

*This value is the Grand Mean compiled by quantitative results of at least 10 participants (see Manufacturer's Information).

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
2C2Y7Z	9.6017	9.5940	9.5980
4XYL9K	8.9000	8.4000	8.6500
A38JWN	11.159		11.160
AV6PMT	10.070		10.070
B74G8Z	9.1600		9.1600
E393QR	8.1900		8.1900
FKP3E8	10.000	8.8000	9.4000
HEBQBK	9.5700		9.5700
JJNABK	9.1050		9.1050
ML2D87	10.880	10.960	10.920
NZ2CWN	10.000		10.000
RUX3XD	9.6100		9.6100
TZ3XDC	8.7000		8.7000
VKGPA6	9.3200		9.3200
XN67DU	9.5670		9.5670
YQCLML	6.8290		6.8290
ZDLTRN	9.0000	8.8000	8.9000

Statistical Analysis for Item 2 - Methadone			
Grand Mean	9.34	Number of Participants Included	17
Standard Deviation	0.99	Number of Participants Excluded	0

Reporting Procedures - Item 2

TABLE 2D - Item 2

WebCode	Quantitative Reporting Procedures
26KJHW	A single determination.
2C2Y7Z	The mean of duplicate/several determinations.
2KVVAP	A single determination.
2PVNNY	A single determination.
3CHL49	A single determination.
3KVYKX	A single determination.
4AWKZQ	A single determination.
4JU4W7	A single determination.
4XYL9K	The sample is analyzed in duplicate, and the results have to be within +/-20% of their mean. The lowest of the two quantitative results is reported.
6767L2	A single determination.
8XLZMU	Lowest of duplicate samples, truncated
A38JWN	A single determination.
AV6PMT	A single determination.
B74G8Z	A single determination.
BD3AXL	A single determination.
CYWEEJ	A single determination.
D4TXWE	A single determination.
DGYUFG	A single determination.
DJAUGG	A single determination.
E393QR	A single determination.
ERY3ED	A single determination.
EXE4F3	The mean of duplicate/several determinations.
EZJUKW	A single determination.
FKP3E8	Lowest concentration reported from duplicate analysis for LC/MS/MS.
G2RNFN	A single determination.
G36WJM	A single determination.
GL4PPU	A single determination.
GTXFUW	A single determination.
HEBQBK	A single determination.
HF9VVL	A single determination.

TABLE 2D: Reporting Procedures - Item 2

WebCode	Quantitative Reporting Procedures
HTF8KE	A single determination.
HU8JYD	A single determination.
HYDMML	The mean of duplicate/several determinations.
J26FHA	A single determination.
JJNABK	A single determination.
KBL6GZ	The mean of duplicate/several determinations.
KH72JP	A single determination.
LG6UAA	The mean of duplicate/several determinations.
LZPT28	A single determination.
M2AQMx	The mean of duplicate/several determinations.
M42ZZQ	A single determination.
MKPBMT	The mean of duplicate/several determinations.
ML2D87	Methamphetamine (single), Methadone (mean of duplicates)
MTFKUW	The mean of duplicate/several determinations.
MYNK48	A single determination.
MZCHEE	A single determination.
N33X9M	A single determination.
N8VGPP	The mean of duplicate/several determinations.
NEUM22	A single determination.
NLEJBH	A single determination.
NPBCZ7	A single determination.
NUJWN4	A single determination.
NWDJJF	The mean of duplicate/several determinations.
NZ2CWN	The mean of duplicate/several determinations.
P3LKJU	A single determination.
PAUXXY	A single determination.
PCKDPZ	The mean of duplicate/several determinations.
PRVKPX	The mean of duplicate/several determinations.
PT8HU3	A single determination.
PU66T7	A single determination.
Q2MUT7	A single determination.

TABLE 2D: Reporting Procedures - Item 2

WebCode	Quantitative Reporting Procedures
QCE8K6	A single determination.
QHN3QZ	A single determination.
QUCAHA	A single determination.
QUXZDF	The mean of duplicate/several determinations.
RUX3XD	A single determination.
TALUX6	A single determination.
TK2KYV	A single determination.
TZ3XDC	A single determination.
UVXCH7	A single determination.
V7ZPJ7	The lowest of duplicates
VKGPA6	A single determination.
XMU6RV	A single determination.
XN67DU	A single determination.
YB499F	A single determination.
YCPGD4	A single determination.
YQCLML	A single determination.
Z7427C	A single determination.
ZDLTRN	The lowest of duplicate analysis.
ZLRDEC	The mean of duplicate/several determinations.

Response Summary for Item 2		Participants: 80
A single determination:	59 (73.8%)	
The mean of duplicate/several determinations:	15 (18.75%)	
Other:	6 (7.5%)	

Methods of Analysis - Item 2

TABLE 2E - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
26KJHW	Immunoassay GC/MS	✓	✓	✓
2BCNF8	Immunoassay GC/MS	✓ ✓	✓	
2C2Y7Z	Immunoassay GC/MS	✓		✓
	High resolution accurate mass LC/MS LC/MS/MS	✓		✓
2KWWAP	Immunoassay GC/MS	✓	✓	✓
2PVNNY	LC-HRMS/MS LC/MS/MS	✓	✓	
2RY3TY	LC/MS/MS	✓		
33PF4F	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
346LLQ	Immunoassay GC/MS	✓ ✓	✓	
3CHL49	Immunoassay GC/MS	✓	✓	✓
3KVYKX	LC-HRMS/MS LC/MS/MS	✓		✓
3LNB2D	GC/MS		✓	
47L9T4	Immunoassay LC-QTOF-MS	✓	✓	
48X3BP	Immunoassay GC/MS	✓ ✓	✓	
4AWKZQ	LC/MS/MS LC/MS	✓	✓	✓
4JU4W7	GC/MS LC/MS/MS	✓	✓	✓
4XYL9K	LC/MS/MS	✓	✓	✓
4Y4XHN	Immunoassay GC/MS	✓ ✓	✓	
6767L2	Immunoassay LC/MS/MS	✓	✓	✓
67P9D6	Immunoassay	✓		

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
69QAH8	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	
7M2FJX	Immunoassay LC/MS/MS	✓	✓	
8KD4JR	Immunoassay GC/MS	✓ ✓	✓	
8XLZMU	Immunoassay LC/MS/MS	✓	✓	✓
A38JWN	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓
A3L2X9	LC/MS/MS	✓	✓	
AB2PQP	Immunoassay GC/MS	✓ ✓	✓	
AV6PMT	LC/MS/MS	✓	✓	✓
B6RTJU	Immunoassay	✓		
B74G8Z	LC/MS/MS	✓	✓	✓
BD3AXL	Immunoassay GC/MS	✓	✓	✓
CKYA6M	Immunoassay LC/QTOF-MS GC/MS LC/MS/MS	✓ ✓	✓ ✓	
CYWEEJ	Immunoassay GC/MS GC/FID	✓ ✓	✓ ✓	✓
D4TXWE	HR-LCMS/MS LC/MS/MS	✓	✓	✓
DGDZFL	Immunoassay GC/MS	✓	✓	
DGYUFG	Immunoassay LC/MS/MS	✓ ✓	✓	✓
DJAUGG	LC-HRMS/MS LC/MS/MS	✓	✓	✓
DQKUEK	Immunoassay	✓		
DZQNMR	GC/MS	✓		

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
E393QR	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
EA8UUF	Immunoassay GC/MS	✓ ✓	✓	
ERU7MA	Immunoassay GC/MS	✓	✓	
ERY3ED	LC-HRMS/MS LC/MS/MS	✓	✓	
EVC4HR	Immunoassay GC/MS	✓ ✓	✓	
EXE4F3	LC/MS/MS	✓	✓	✓
EZJUKW	Immunoassay GC/MS	✓ ✓	✓	✓
F82KLH	LC/MS/MS	✓	✓	✓
FCWUTG	Immunoassay	✓		
FKB3F8	Immunoassay GC/MS	✓	✓	
FKP3E8	LC/MS/MS	✓	✓	✓
FY9C2R	Immunoassay GC/MS	✓	✓	
G2RNFN	Immunoassay GC/MS	✓ ✓	✓	✓
G36WJM	Immunoassay LC/MS/MS	✓	✓	✓
GDHLXD	GC/MS LC/MS/MS	✓ ✓	✓	
GL4PPU	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	
GTXFUW	Immunoassay GC/MS	✓ ✓	✓	✓
GU6ZEQ	Immunoassay	✓		
HEBQBK	LC/MS/MS	✓	✓	✓
HF9VVL	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
HTF8KE	Immunoassay GC/MS	✓	✓	✓
HU8JYD	LC-HRMS/MS LC/MS/MS	✓	✓	
HYDMML	Immunoassay LC/MS/MS	✓	✓	✓
HYYCTM	Immunoassay GC/MS	✓ ✓	✓	
J26FHA	LC/MS/MS		✓	✓
JJNABK	LC/MS/MS	✓	✓	✓
K3VWCH	LC/MS/MS GC/MS Immunoassay	✓ ✓	✓	
KBL6GZ	Immunoassay LC-QTOF LC/MS/MS	✓	✓	✓
KH72JP	Immunoassay GC/MS	✓	✓	✓
KMEQF4	Immunoassay GC/MS	✓ ✓	✓	
LG6UAA	LC/MS/MS		✓	✓
LLJWH6	hrams LC/MS/MS	✓	✓	✓
LZPT28	LC/MS/MS High resolution accurate mass spectrometry	✓	✓	✓
M2AQMXX	Immunoassay LC-QTOF LC/MS/MS	✓ ✓		✓
M42ZZQ	LC/MS/MS LC-QTOF-MS	✓	✓	✓
MFV32T	GC/MS		✓	
MKPBMT	LC/MS/MS Immunoassay	✓ ✓	✓	✓
ML2D87	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
MTFKUW	Immunoassay LC-QTOF LC/MS/MS	✓	✓	✓
MYNK48	Immunoassay GC/MS	✓	✓	✓
MZCHEE	Immunoassay LC/MS/MS	✓	✓	✓
N33X9M	LC/MS/MS	✓	✓	✓
N8VGPP	Immunoassay LC/MS/MS LC-TOFMS	✓ ✓ ✓	✓ ✓	✓
NEUM22	Immunoassay GC/MS	✓	✓	✓
NHDG6T	GC/MS LC/MS LC/MS/MS	✓ ✓	✓	
NLEJBH	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	✓
NPBCZ7	Immunoassay GC/MS GC/FID	✓	✓ ✓	✓
NU9N4J	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	
NUJWN4	Immunoassay GC/MS	✓	✓	✓
NWDJJF	Immunoassay GC/MS	✓ ✓	✓	✓
NZ2CWN	Immunoassay UPLC-QTOF-MS LC/MS/MS	✓ ✓	✓ ✓	✓ ✓
P3LKJU	Immunoassay GC/MS	✓	✓	✓
PAEA6K	Immunoassay GC/MS LC/QTOF/MS	✓ ✓	✓ ✓	
PAUXXY	Immunoassay GC/MS	✓ ✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
PCKDPZ	Immunoassay	✓		
	LC/MS/MS		✓	✓
	LCQTOF	✓	✓	
PRVKPX	Immunoassay	✓		
	LC-QTOF	✓	✓	
	LC/MS/MS		✓	✓
PT8HU3	Immunoassay	✓		
	GC/MS		✓	✓
	GC/FID		✓	✓
PU66T7	LC/MS/MS	✓	✓	✓
Q2MUT7	LC/MS/MS	✓	✓	✓
Q7EL2H	Immunoassay	✓		
	QTOF	✓	✓	
	GC/MS		✓	
QCE8K6	Immunoassay	✓		
	GC/MS	✓	✓	
	GC/FID		✓	✓
QHN3QZ	Immunoassay	✓		
	GC/MS		✓	
	GC/FID			✓
QUCAHA	LC/Ion Trap	✓		
	LC/MS/MS		✓	
	Immunoassay	✓		
QUXZDF	Immunoassay	✓		
	GC/MS	✓	✓	✓
RHGBCN	GC/MS		✓	
RPM6DC	LC/MS/MS	✓		
	GC/MS		✓	
	Immunoassay	✓		
RUX3XD	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	✓
RXJJAC	LC/MS/MS	✓		
TALUX6	Immunoassay	✓		
	GC/MS	✓	✓	
	GC/FID		✓	✓
TK2KYV	Immunoassay	✓		
	GC/MS		✓	✓
TPAAVA	Immunoassay	✓		

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
TZ3XDC	LC/MS/MS	✓	✓	✓
ULB46A	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	✓
UVXCH7	Immunoassay LC/MS/MS	✓	✓	✓
V7TMM7	Immunoassay GC/MS LC/MS/MS	✓	✓	✓
V7ZPJ7	Immunoassay LC/MS/MS	✓	✓	✓
VKGPA6	LC/MS/MS	✓	✓	✓
VQKQ8D	LC/MS/MS	✓	✓	
VWYAPV	Immunoassay GC/MS	✓ ✓	✓	
W6WRGA	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
W93N7P	Immunoassay GC/MS LC/MS/MS LC-QTOF	✓ ✓ ✓	✓ ✓	
WDQWBB	Immunoassay LC-QTOF GC/MS LC/MS/MS	✓	✓ ✓ ✓	
WEJRTC	Immunoassay	✓		
WVTEJU	Immunoassay GC/MS	✓ ✓	✓	
XMU6RV	Immunoassay GC/MS	✓ ✓		
XN67DU	Immunoassay LC/MS/MS	✓	✓	✓
YB499F	LC-QTOF-MSMS	✓	✓	✓
YCPGD4	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	✓

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
YHVCTX	Immunoassay	✓		
	LC/MS/MS		✓	
	LC/QTOF-MS	✓		
YQCLML	Immunoassay	✓		
	LC/MS/MS		✓	✓
Z7427C	LC/MS/MS	✓		
	GC/MS		✓	✓
	Immunoassay	✓		
ZDLTRN	LC/MS/MS	✓	✓	✓
ZEYJHK	LC-QTOF	✓	✓	
ZLRDEC	Immunoassay	✓		
	GC/MS	✓	✓	✓

Response Summary for Item 2 - Methods of Analysis				Participants: 132
	Screening	Confirmatory	Quantitation	
Immunoassay:	92	0	0	
GC/MS:	31	65	23	
LC/MS:	1	1	1	
LC/MS/MS:	34	57	47	
Other:	23	17	8	

Additional Comments for Item 2

TABLE 2F

WebCode	Item Comments
2C2Y7Z	Methadone lower limit of quantitation (LLOQ) is 100 ng/mL. Both replicate measurements of methadone were less than the LLOQ, but were greater than the limit of detection of 5 ng/mL. EDDP is not routinely confirmed. MDMA was negative following confirmation analysis.
2PVNNY	Screening: Mepivacaine and mephobarbital were used as internal standards. Confirmation of Methamphetamine: Amphetamine-d11, Methamphetamine-d11, Cocaine-d3, and Benzoyllecgonine-d11 were used as internal standards. Quantitation based off of Methamphetamine-d11. Limits of Detection: Amphetamine: 10 µg/L, Gabapentin: 0.30 mg/L, Desmethylvenlafaxine: 0.050 mg/L, Methadone: 25 µg/L
2RY3TY	LODs: Methamphetamine - 5ng/ml, Methadone - 5ng/ml
346LLQ	Possible Amphetamine, but too much interference to positively identify.
3KVYKX	IS: mepivacaine, mephobarbital, gabapentin-d4, amphetamine-d11, methamphetamine-d11. gabapentin LOR 0.30 mg/L, desmethylvenlafaxine LOR 0.050 mg/L, EDDP LOR 3.0 mcg/L, methadone LOR 25 mcg/L, methamphetamine/amphetamine LOR 10 mcg/L
3LNB2D	LOD 550 ng/mL
48X3BP	Promazine is the Internal Standard for Drug Screen
4AWKZQ	Internal Standards: amphetamine-d11 cocaine-d3 benzoyllecgonine-d8 methamphetamine-d11 Mepivacaine gabapentin-d4. The following drugs will not be reported due to being contaminants: gabapentin, desmethylvenlafaxine, methadone, eddp, acetaminophen. The following drugs will not be reported due to being contaminants: gabapentin, desmethylvenlafaxine, methadone, eddp, acetaminophen. All analytes below limit of detection expect gabapentin but not reported due to possible contamination.
4JU4W7	Cetirizine, methadone, o-desmethylvenlafaxine, tianeptine and metabolites are detected in all samples. ¿perhaps from the blank sample?
4XYL9K	Methamphetamine lower limit of quantitation (LLOQ) is 20 ng/mL with a working range of 20-1000 ng/mL. The internal standard used was Methamphetamine-D14. The extraction method used was protein precipitation with acetonitrile followed by size exclusion filtration. Results which are greater than its working range are reported out as being greater than the concentration of its highest calibrator. *Amphetamine LLOQ is 10 ng/mL with a working range of 10-500 ng/mL. The internal standard used was Amphetamine-D11. The extraction method used was protein precipitation with acetonitrile followed by size exclusion filtration. *Methadone LLOQ is 10 ng/mL with a working range of 10-500 ng/mL. The internal standard used was Methadone-D9. The extraction method used was protein precipitation with acetonitrile followed by size exclusion filtration. *Note: For methadone and amphetamine a sample with a concentration that is between the LLOQ and 50% of the LLOQ is considered "Trace" and reported as None Detected. Trace result does not require a 2nd analysis. However, a positive result from a 2nd analysis is reported if it is above the LLOQ. In this case methadone and amphetamine results were both below the LLOQ. Therefore, methadone and amphetamine were reported as None Detected.
4Y4XHN	Detected possible Amphetamine with interference in the SMA confirmation. Unable to report. Promazine used as internal standard in Drug Screen.
6767L2	Internal Standard: Methamphetamine D11; LOD: 10 ng/mL; LLOQ: 20 ng/mL; ULOQ: 1000 ng/mL
67P9D6	Methamphetamine cutoff = 50ng/ml, Methadone cutoff = 10ng/ml
69QAH8	Methadone- below reporting.
7M2FJX	The cutoff value of methamphetamine is 50 ng/mL by LC/MS/MS

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
8XLZMU	The laboratory is currently not able to confirm and quantitate methadone. The results are presumptive only. Amphetamine was present below the limit of quantitation. The limit of quantitation of Amphetamine is 5 ng/mL. Methamphetamine was present greater than 1000 ng/mL. The upper limit of quantitation is 1000 ng/mL. Both amphetamine and methamphetamine values were outside of the quantitative limits and were reported as such. Raw data values were input, but the laboratory does not have a validated method to report out the analytical values that were obtained.
A3L2X9	A low concentration of methadone was detected in all three samples for this proficiency test.
AB2PQP	Immunoassay used was ELISA. Drug screen internal standard is Promazine. Possible indication of Amphetamine but not reported.
AV6PMT	Amphetamine LOQ 5ng/mL; ISTD Amphetamine-d11. Methadone LOQ 5ng/mL; ISTD Methadone-d9. Methamphetamine LOQ 5ng/mL; ISTD Methamphetamine-d11. First extraction for Methamphetamine quantitative value was >linear range 250.00ng/mL; dilution was performed for reported value
B6RTJU	Screening cutoff is 20ng/mL for Methamphetamine
CKYA6M	LC/QTOF-MS internal standards, buprenorphine-D4, diazepam-D5, diphenhydramine-D3, hydromorphone-D3, oxycodone-D3, LC-MS/MS internal standards d3-hydromorphone, d3-oxycodone, GC/MS internal standard phenyltoloxamine
D4TXWE	Internal standards: (mepivacaine, methamphetamine-d11, gabapentin-d4). Possible artifact: gabapentin (lower than the lowest calibrator; LLC of 1.0 mg/L)
DGDZFL	Confirmatory ISTD GC/MS: [Initials]
DJAUGG	Acetaminophen, Gabapentin, Norvenlafaxine, Methadone, and EDDP were detected in all 3 PT samples and were considered an unintended contaminate not reported by the PT provider.
DZQNMR	Extraction using Quechers Method followed by Derivatization using TMS. Analysed by [initials] on GCMS
EA8UUF	The internal standard used for the full panel drug screen procedure was promazine.
ERY3ED	LCMSMS IS - mepivacaine, cocaine-d3, amp/meth-d11, BZE-d8 Found LOR or LLC and in all 3 items (possible contaminants?): gabapentin, norvenlafaxine, EDDP, methadone
FCWUTG	Sample screened positive for Methamphetamine/MDMA but was not confirmed. Not currently authorized to perform confirmation for Methamphetamine/MDMA. Immunoassay: Methamphetamine cutoff 20 ng/mL.
FKP3E8	Methamphetamine/Methamphetamine-D14, LLOQ 20ng/mL, working range 20-1000ng/mL, results were above the ULOQ (1000ng/mL); Methadone/Methadone-D9, LLOQ 10ng/mL, working range 10-500ng/mL, result on 5/18/2023 (8.8ng/mL) was considered "Trace" (below LLOQ but above LOD) and qualitative only. Therefore, result on 5/15/2023 (10.0ng/mL) was reported.
FY9C2R	Confirmatory ISTD GC/MS: [initials]
G2RNFN	quantitative value was from single determination using dilutions to confirm quantitative result.
GDHLXD	Cetirizine, Gabapentin, Methadone and traces of EDDP were detected in all three Items. Traces of amphetamine was detected in Item 2.
GL4PPU	Amphetamine was not identified in confirmation test Methadone was below reporting limit (40ng/mL)
GU6ZEQ	Screening only/no confirmation testing performed.
HEBQBK	Methamphetamine quantitative value was > Linear Range 250.00ng/mL on first extraction. Dilution was performed for reported value. Amphetamine LOQ 5ng/mL, ISTD Amphetamine-D11. Methadone LOQ 5ng/mL, ISTD Methadone-D9. Methamphetamine LOQ 5ng/mL, ISTD Methamphetamine-D11

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
HF9VVL	Immunoassay screen was negative. Sample also screened positive on LC/MS/MS for Amphetamine and Methadone. Both were submitted to confirmation testing and both fell below our reporting limits.
HTF8KE	Immunoassay: Methamphetamine/Methylenedioxyamphetamine cutoff: 20ng/mL. GC/MS: Meth, AMP, MDA, MDMA LOQ: 0.020mcg/mL; Internal standards: Meth-D11, AMP-D11, MDA-D5, and MDMA-D5.
HU8JYD	mepivacaine, methamphetamine d11
J26FHA	LC-HRMS/MS used for screening method. Internal standards: Mepivacaine, Methamphetamine-d11
J4A4XZ	Item 2 not analyzed due to sample being collected from autopsy per case scenario. [Laboratory] is a Human Performance testing laboratory.
KBL6GZ	The LC-QTOF qualitative analysis also indicated the presence of methadone, EDDP, cetirizine, norvenlafaxine and tianeptine. As these were present in the other exhibits, they were not reported. The LOQ was 50 ng/mL (due to a dilution that was made). The internal standards are amphetamine-D5 and methamphetamine-D5.
KMEQF4	Butyl Acetate Screen - Promazine (IStd)
LZPT28	Mepivacaine and mephobarbital were the internal standards used for the high resolution accurate mass spectrometry during drug screening. Gabapentin-d4 and mepivacaine were the internal standards used for LC/MS/MS confirmation of gabapentin and testing for certain other basic drugs. Gabapentin was detected during testing. Possible artifact from specimen. Amphetamine-d11 and methamphetamine-d11 were the internal standards used for testing for certain amphetamines. Methamphetamine quantitation was calculated from a dilution ($987.279 \times 2 = 1974.558$ ng/mL). Additional drugs detected in screen were <LOR during confirmation testing.
M42ZZQ	Methamphetamine quantitation range 6.25 to 400 ng/mL with methamphetamine-d5 as internal standard - Methadone limit of detection 12.5 ng/mL, not detected by confirmation method - Confirmation is pending for other identified drugs
MFV32T	Internal standard tetracosane
ML2D87	Methadone confirmed at similar, low level concentrations in all three proficiency test samples. The Methadone appears to be inherent to the proficiency test matrix.
MTFKUW	Methamphetamine-D5 used as internal standard for quantitative analysis. Other analytes were detected via LC-QTOF but were below threshold for quantitation.
MYNK48	Immunoassay: Methadone cutoff: 10ng/mL; Methamphetamine/Methylenedioxyamphetamine cutoff: 20ng/mL. GC/MS: Meth, AMP, MDA, MDMA LOQ: 0.020mcg/mL; Internal standards: Meth-D11, AMP-D11, MDA-D5, and MDMA-D5.
MZCHEE	Analysis by high performance liquid chromatography/tandem mass spectrometry in whole blood for: Opiates, Opioids, and Stimulants confirmation panel: Analyte Quantitative Range (ng/mL) Fentanyl 0.5 – 50 Norfentanyl 0.5 – 50 (QC failed, data not reported) Codeine 5.0 – 500 Hydrocodone 5.0 – 500 Morphine 5.0 – 500 Hydromorphone 5.0 – 500 Oxycodone 5.0 – 500 Oxymorphone 5.0 – 500 Methadone 20 – 2000 EDDP 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 Cocaine 20 – 2000 Benzoyllecgonine 20 – 2000 Measurement uncertainty is reported at a 95.45% level of confidence for all quantitative blood drug analyses. Analysis by immunoassay screening in whole blood for: Assay Cutoff* (ng/mL) Meth /Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Meprobamate 100 Methadone 10 Opiates 10 Opioids 10 Phencyclidine 5 TCA 25 Tramadol 5 Zolpidem 10 * Results within 20% of these concentrations are also reported as preliminarily positive. [Participant submitted data in a format that could not be reproduced in this report.]
N33X9M	Methamphetamine determined to be present at a level greater than the method ULOQ. ULOQ = 2000 ng/mL

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
NEUM22	The reported methamphetamine concentration was calculated from a 5-fold dilution of the sample.
NHDG6T	Estazolam was used as internal standard
NUJWN4	Methadone is a qualitative only drug from our basic extraction.
NWDJFF	5X Dilution used for sample in methamphetamine quantitation.
NZ2CWN	Screening: Immunoassay and UPLC-QTOF MS (Waters). For UPLC-QTOF MS - Internal Standards: Cyclobarbitone, Prazepam & D3-Methadone, Methadone: UPLC-QTOF MS (Waters). LOD for Methadone: 1 ng/mL. Amphetamine / Methylamphetamine: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) in Multiple Reaction Monitoring (MRM) mode. Internal Standard: D5-Methylamphetamine, D3-Ephedrine & D4-Pethidine. LOD for Amphetamine & Methylamphetamine: 1 and 0.5 ng/mL respectively.
P3LKJU	Internal Standards: Deuterated amphetamine and deuterated methamphetamine. Amphetamine results: Amphetamine was detected below the level of quantitation in the submitted blood sample. LOQ for both amphetamine and methamphetamine: 10 ng/mL. LOD for both amphetamine and methamphetamine: 5 ng/mL
PAEA6K	O-desmethylvenlafaxine and Amphetamine were not confirmed. Acetaminophen, Cotinine, and Naproxen were indicated. Internal standards used were Mepivacaine, Amphetamine D-11, Methamphetamine D-11.
PRVKPX	IS used in QTOF analyses: Fentanyl-D5, Imipramine-D3, MDMA-D5, Methaqualone-D7, and Triazolam-D4. IS used for LC/MS/MS quantitation: Methamphetamine-D5. LOQ (Methamphetamine = 50 ng/mL). Caffeine, Cetirizine, EDDP, Methadone, Norvenlafaxine and Tianeptine disregarded.
PU66T7	Amphetamine present was lower than limit of report. Deuterated internal standard used to quantitate methamphetamine.
Q7EL2H	Internal standards used: Mepivacaine; Methamphetamine-D11, Amphetamine-D11
QUCAHA	The upper limit of quantitation for Methamphetamine is 1000 ng/mL. The quantitative value for this sample was above that, so the result is recorded as greater than 1000 ng/mL.
RHGBCN	Internal standard: Flurazepam and tetracosane.
RPM6DC	OPB Extraction data: Methadone 0.48 ng/mL (LOQ = 40 ng/mL)
RXJJAC	Sample was screened using Immunoassay and LC/MS/MS.
TALUX6	Methamphetamine quantitation range : 0.05 ug/mL - 2.0 ug/mL. Sample was analyzed as a 1:2 dilution for quantitation. Raw methamphetamine result: $1.165 (x 2) = 2.330$
TK2KYV	Methamphetamine: Internal standard: Methamphetamine-d14, LLOQ: 25 ng/mL, HLOQ: 2000 ng/mL
TPAAVA	DOA Ultra Whole Blood Array on Randox Evidence Investigator was conducted. The Limits of detection of the various analytes are listed below. Oxycodone-10ng/mL, Opiate-10ng/mL, Generic Opioids- 10ng/mL, Dextromethorphan-5ng/mL, Meprobamate- 100ng/mL, Amphetamine-20ng/mL, Barbiturates-50ng/mL, Benzodiazepines-10ng/mL, Methadone-10ng/mL, Phencyclidine-5ng/mL, Cocaine Metabolite (BZG)-50ng/mL, Zolpidem-10ng/mL, Tricyclic Antidepressants (TCA) -60ng/mL, Cannabinoids (THC)-10ng/mL, Tramadol 5ng/mL, Fentanyl 1 ng/mL, Buprenorphine-1 ng/mL
TZ3XDC	Amphetamine and o-desmethylvenlafaxine were below cutoffs for confirmation.
ULB46A	Amphetamine: LC/MS/MS for screen (LOD 10ng/mL) and GC/MS for confirmation(qualitative). Was not able to get a match high enough to report. Methamphetamine: LC/MS/MS for screen(LOD 50ng/mL) and GC/MS for confirmation (qualitative). Methadone: LC/MS/MS for screen (LOD 10ng/mL) and GC/MS for confirmation/quantitation (LOQ 40ng/mL) No reportable amount was found.

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
UVXCH7	Analysis by immunoassay screening in whole blood for: Assay Cutoff* (ng/mL) Meth /Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Meprobamate 100 Methadone 10 Opiates 10 Opioids 10 Phencyclidine 5 TCA 25 Tramadol 5 Zolpidem 10 * Results within 20% of these concentrations are also reported as preliminarily positive. Opiates, Opioids, and Stimulants confirmation panel: Analyte Quantitative Range (ng/mL) Fentanyl 0.5 – 50 Norfentanyl 0.5 – 50 Codeine 5.0 – 500 Hydrocodone 5.0 – 500 Morphine 5.0 – 500 Hydromorphone 5.0 – 500 Oxycodone 5.0 – 500 Oxymorphone 5.0 – 500 Methadone 20 – 2000 EDDP 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 Cocaine 20 – 2000 Benzoyllecgonine 20 – 2000 Measurement uncertainty is reported at a 95.45% level of confidence for all quantitative blood drug analyses. [Participant submitted data in a format that could not be reproduced in this report.]
V7TMM7	Codeine D3 is used as Internal Standard.
V7ZPJ7	Our limit of quantitation for Amphetamine is 5 ng/mL. A sample that has a concentration less than 5 ng/mL is reported as "Present below limit of quantitation". Our upper limit of quantitation (highest calibrator) for Methamphetamine is 1000 ng/mL. We do not routinely dilute and re-run samples that are greater than our upper LOQ. Instead, they are reported as "Present greater than 1000 ng/mL". This sample also screened presumptive positive for methadone on immunoassay; our lab is not currently able to confirm this compound. These results are from the pre-distribution analysis.
VKGPA6	Methamphetamine was >LR250.00ng/ml on 05/06/23 and was diluted on second extraction for reported concentration. Methadone - LOQ 5ng/ml; ISTD methadone-d9, Methamphetamine - LOQ 5ng/ml; ISTD methamphetamine-d11
W93N7P	Methamphetamine- limit of detection: 12.5ng/mL, calibration range: 50-1600ng/mL. Methadone- limit of detection: 6.25ng/mL, calibration range: 25-800ng/mL.
WVTEJU	Internal standard: Promazine (GCMS drug screen). Possible Amphetamine observed but not reported.
XMU6RV	GC/FID for quantitation and confirmation
XN67DU	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Amphetamine confirmation panel includes amphetamine, methamphetamine, MDA and MDMA. LOD is 4ng/ml and LOQ is 10ng/ml. Amphetamine-D5, methamphetamine-D11, MDMA-D5 and MDA-D5 were used as internal standards. Methadone confirmation panel used methadone-D3 as the internal standard. Methadone has a LOD of 5ng/ml and a LOQ of 10ng/ml.
YHVCTX	Internal standards: buprenorphine-d4, diazepam-d5, diphenhydramine-d3, hydromorphone, d3, oxycodone-d3, methamphetamine-d5, cocaine-d3, phenyltoloxamine. Methamphetamine and amphetamine LOD: 10ng/mL
YQCLML	Laboratory does not routinely analyze postmortem samples (outside scope of testing). ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Amphetamine confirmation panel includes amphetamine, methamphetamine, MDA and MDMA. LOD is 4ng/ml and LOQ is 400 ng/mL. Amphetamine-D5, methamphetamine-D5, MDMA-D5 and MDA-D5 were used as internal standards. Methadone confirmation panel uses methadone-D3 as an internal standard. Methadone has a LOD of 5 ng/mL and LOQ of 10 ng/mL. Drug results quantitating below the LOQ but greater than the LOD are reported as present, less than (LOQ value).
Z7427C	Methadone (3.13ng/mL) not reportable.

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
ZDLTRN	Methamphetamine: Results which are greater than its working calibration range are reported out as being greater than the concentration of its highest calibrator. Methamphetamine Raw data results were both " > 1000 ng/mL". Methadone: A sample with a concentration between the lower limit of quantitation (10 ng/mL) and 50% of the lower limit of quantitation is considered "Trace" and reported as None Detected. Trace results alone does not require a 2nd analysis. However, a positive result from a 2nd analysis is reported if it is above the lower limit of quantitation. In this case methadone results were both below the limit of quantitation. Therefore, methadone was reported None Detected.
ZEYJHK	GC-QQQ analysis was performed on each item number for cannabinoid determination. COOH_THC results are qualitative only.

Screening Results - Item 3

TABLE 3A

Item Scenario:

Case 3: A 35 year-old female crashed her car into a pole. Witnesses told police the driver was swerving before she crashed. She was administered a breath alcohol test. The result of the breath alcohol test was 0.00%. Blood was collected 60 minutes later.

Item Contents and Preparation Concentration: Methadone 11.6 ng/mL*

*This value is the Grand Mean compiled by quantitative results by at least 10 participants (see Manufacturer's Information).

WebCode	Screening Results
26KJHW	No drugs detected utilizing screening methods.
2BCNF8	No drugs detected utilizing screening methods.
2C2Y7Z	Methadone, EDDP
2KWWAP	No drugs detected utilizing screening methods.
2PVNNY	(Pseudo)Ephedrine, Gabapentin, Venlafaxine, Desmethylvenlafaxine, Metoprolol, Methadone, EDDP
2RY3TY	Methadone
33PF4F	No drugs detected utilizing screening methods.
346LLQ	Propofol
3CHL49	No drugs detected utilizing screening methods.
3KVYKX	pseudoephedrine, gabapentin, desmethylvenlafaxine, metoprolol, venlafaxine, EDDP, methadone
3LNB2D	No drugs detected utilizing screening methods.
47L9T4	Methadone
48X3BP	No drugs detected utilizing screening methods.
4AWKZQ	acetaminophen pseudoephedrine gabapentin desmethylvenlafaxine venlafaxine eddp methadone
4XYL9K	Methadone
4Y4XHN	No drugs detected utilizing screening methods.
6767L2	No drugs detected utilizing screening methods.
67P9D6	Methadone
69QAH8	Methadone
7M2FJX	No drugs detected utilizing screening methods.
8KD4JR	No drugs detected utilizing screening methods.
8XLZMU	Methadone
A38JWN	Methadone

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
A3L2X9	Hydroxy Bupropion, Venlafaxine, and Methadone
AB2PQP	No drugs detected utilizing screening methods.
AV6PMT	Methadone
B6RTJU	No drugs detected utilizing screening methods.
B74G8Z	Methadone, EDDP
BD3AXL	No drugs detected utilizing screening methods.
CKYA6M	hydroxybupropion, methadone, tianeptine
CYWEEJ	No drugs detected utilizing screening methods.
D4TXWE	No drugs detected utilizing screening methods.
DGDZFL	No drugs detected utilizing screening methods.
DGYUFG	No drugs detected utilizing screening methods.
DJAUGG	No drugs detected utilizing screening methods.
DQKUEK	No drugs detected utilizing screening methods.
DZQNMR	[Participant reported that drugs were detected, but did not report the drug class or name]
E393QR	Methadone
EA8UUF	No drugs detected utilizing screening methods.
ERU7MA	No drugs detected utilizing screening methods.
ERY3ED	pseudoephedrine
EVC4HR	No drugs detected utilizing screening methods.
EXE4F3	No drugs detected utilizing screening methods.
EZJUKW	No drugs detected utilizing screening methods.
F82KLH	No drugs detected utilizing screening methods.
FCWUTG	Methadone
FKB3F8	No drugs detected utilizing screening methods.
FKP3E8	Methadone
FY9C2R	No drugs detected utilizing screening methods.
G2RNFN	No drugs detected utilizing screening methods.
G36WJM	No drugs detected utilizing screening methods.

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
GDHLXD	No drugs detected utilizing screening methods.
GL4PPU	Methadone
GTXFUW	No drugs detected utilizing screening methods.
GU6ZEQ	No drugs detected utilizing screening methods.
HEBQBK	Methadone
HF9VVL	Methadone
HTF8KE	Methadone
HU8JYD	actaminophen, pseudoephedrine, gabapentin, norvenlafaxine, metoprolol, venlafaxine, eddp, and methadone
HYDMML	Methadone
HYYCTM	No drugs detected utilizing screening methods.
J26FHA	No drugs detected utilizing screening methods.
J4A4XZ	No drugs detected utilizing screening methods.
JJNABK	methadone, venlafaxine (CTS reported to disregard this compound)
K3VWCH	Methadone
KBL6GZ	No drugs detected utilizing screening methods.
KH72JP	No drugs detected utilizing screening methods.
KMEQF4	No drugs detected utilizing screening methods.
LG6UAA	4-Chloro-alpha-pyrrolidinopropiophenone
LLJWH6	No drugs detected utilizing screening methods.
LZPT28	pseudoephedrine, gabapentin, norvenlafaxine, metoprolol, venlafaxine, eddp, methadone
M2AQMXX	No drugs detected utilizing screening methods.
M42ZZQ	methadone, acetaminophen, gabapentin, phenibut, tianeptine, pseudoephedrine/ephedrine
MFV32T	No drugs detected utilizing screening methods.
MKPBMT	No drugs detected utilizing screening methods.
ML2D87	Methadone
MTFKUW	No drugs detected utilizing screening methods.
MWHEUM	Methadone, Hydroxy bupropion, and O-Desmethylvenlafaxine- LC-QTOF-MS
MYNK48	Methadone

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
MZCHEE	Methadone
N33X9M	Methadone
N8VGPP	methadone, salicylic acid
NEUM22	No drugs detected utilizing screening methods.
NHDG6T	No drugs detected utilizing screening methods.
NLEJBH	Methadone
NPBCZ7	No drugs detected utilizing screening methods.
NU9N4J	Methadone
NUJWN4	Buprenorphine
NWDJF	No drugs detected utilizing screening methods.
NZ2CWN	Methadone
P3LKJU	No drugs detected utilizing screening methods.
PAEA6K	Hydroxy bupropion, O-desmethylvenlafaxine
PAUXXY	No drugs detected utilizing screening methods.
PCKDPZ	methadone, bupropion-hydroxy metabolite, cetirizine, caffeine, O-desmethylvenlafaxine, phenibut, telmisartan, tianeptine
PRVKPX	No drugs detected utilizing screening methods.
PT8HU3	No drugs detected utilizing screening methods.
PU66T7	No drugs detected utilizing screening methods.
Q2MUT7	No drugs detected utilizing screening methods.
Q7EL2H	Acetaminophen, Cotinine, Hydroxy Bupropion, Naproxen, O-Desmethylvenlafaxine
QCE8K6	No drugs detected utilizing screening methods.
QHN3QZ	No drugs detected utilizing screening methods.
QUCAHA	No drugs detected utilizing screening methods.
QUXZDF	No drugs detected utilizing screening methods.
RPM6DC	Methadone
RUX3XD	Methadone
RXJJAC	Methadone
TALUX6	No drugs detected utilizing screening methods.

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
TK2KYV	No drugs detected utilizing screening methods.
TPAAVA	Methadone
TZ3XDC	Methadone, (o-desmethylvenlafaxine also indicated in analyst discretion range), venlafaxine
ULB46A	Methadone
UVXCH7	Methadone
V7TMM7	Mwtheadone
V7ZPJ7	Methadone
VKGPA6	methadone
VQKQ8D	methadone and EDDP
VYAPV	No drugs detected utilizing screening methods.
W6WRGA	No drugs detected utilizing screening methods.
WDQWBB	No drugs detected utilizing screening methods.
WEJRTC	No drugs detected utilizing screening methods.
WVTEJU	No drugs detected utilizing screening methods.
XMU6RV	Methadone
XN67DU	methadone
YB499F	hydroxybupropion, erthyrohydroxybupropion, threohydroxybupropion
YCPGD4	No drugs detected utilizing screening methods.
YHVCTX	Methadone, Hydroxybupropion, Tianeptine
YQCLML	Methadone
Z7427C	Methadone
ZDLTRN	Methadone
ZEYJHK	Gabapentin, Hydroxybupropion, Methadone, Venlafaxine
ZLRDEC	No drugs detected utilizing screening methods.

Screening Response Summary for Item 3		Participants: 131
Methadone:	56	
Other Drugs Detected:	68	
No Drugs Detected	67	
Utilizing Screening Methods:		

Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Confirmatory Results - Item 3

TABLE 3B

Item Scenario:

Case 3: A 35 year-old female crashed her car into a pole. Witnesses told police the driver was swerving before she crashed. She was administered a breath alcohol test. The result of the breath alcohol test was 0.00%. Blood was collected 60 minutes later.

Item Contents and Preparation Concentration: Methadone 11.6 ng/mL*

*This value is the Grand Mean compiled by quantitative results of at least 10 participants (see Manufacturer's Information).

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
26KJHW	Methadone	✓			ug/ml
2C2Y7Z	Methadone		< 100	13%	ng/mL
2KWWAP	methadone	✓			
2PVNNY	No drugs/metabolites detected utilizing confirmatory methods.				
33PF4F	No drugs/metabolites detected utilizing confirmatory methods.				
346LLQ	<u>Additional Analyte(s) Reported</u>				
	Propofol	✓			
3CHL49	No drugs/metabolites detected utilizing confirmatory methods.				
3KVYKX	No drugs/metabolites detected utilizing confirmatory methods.				
3LNB2D	No drugs/metabolites detected utilizing confirmatory methods.				
47L9T4	Methadone	✓			
4AWKZQ	No drugs/metabolites detected utilizing confirmatory methods.				
4JU4W7	No drugs/metabolites detected utilizing confirmatory methods.				
4XYL9K	Methadone		10.6	+/- 1.6	ng/mL
69QAH8	No drugs/metabolites detected utilizing confirmatory methods.				
A38JWN	Methadone		13	+/-18%	ng/mL
A3L2X9	No drugs/metabolites detected utilizing confirmatory methods.				
AV6PMT	Methadone		12.41	1.24	ng/mL
B74G8Z	Methadone		11.41	2.06	ng/mL
BD3AXL	Methadone	✓			

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
CKYA6M	methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	hydroxybupropion	✓			
	tianeptine	✓			
CYWEEJ	Methadone	✓			
D4TXWE	No drugs/metabolites detected utilizing confirmatory methods.				
DGDZFL	methadone	✓			
E393QR	Methadone		13		ng/mL
ERU7MA	No drugs/metabolites detected utilizing confirmatory methods.				
ERY3ED	No drugs/metabolites detected utilizing confirmatory methods.				
EXE4F3	No drugs/metabolites detected utilizing confirmatory methods.				
EZJUKW	No drugs/metabolites detected utilizing confirmatory methods.				
F82KLH	No drugs/metabolites detected utilizing confirmatory methods.				
FKB3F8	No drugs/metabolites detected utilizing confirmatory methods.				
FKP3E8	Methadone		10.5	1.6	ng/mL
FY9C2R	methadone	✓			
GDHLXD	No drugs/metabolites detected utilizing confirmatory methods.				
GL4PPU	No drugs/metabolites detected utilizing confirmatory methods.				
HEBQBK	Methadone		12.21	1.22	ng/mL
HF9VVL	No drugs/metabolites detected utilizing confirmatory methods.				
HU8JYD	No drugs/metabolites detected utilizing confirmatory methods.				
HYDMML	Methadone		18		ng/ml
J26FHA	No drugs/metabolites detected utilizing confirmatory methods.				
JJNABK	Methadone		9.33	1.02	ng/mL

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
K3VWCH	No drugs/metabolites detected utilizing confirmatory methods.				
KBL6GZ	No drugs/metabolites detected utilizing confirmatory methods.				
KMEQF4	No drugs/metabolites detected utilizing confirmatory methods.				
LG6UAA	<u>Additional Analyte(s) Reported</u> 4-Chloro-alpha-pyrrolidinopropiophenone ✓				
LLJWH6	No drugs/metabolites detected utilizing confirmatory methods.				
LZPT28	No drugs/metabolites detected utilizing confirmatory methods.				
M2AQMX	No drugs/metabolites detected utilizing confirmatory methods.				
M4ZZZQ	methadone		<0.025		mg/L
MFV32T	No drugs/metabolites detected utilizing confirmatory methods.				
ML2D87	Methadone		13	2	ng/mL
MTFKUW	No drugs/metabolites detected utilizing confirmatory methods.				
MWHEUM	Methadone	✓			
MZCHEE	No drugs/metabolites detected utilizing confirmatory methods.				
N33X9M	Methadone		12.39	1.48	ng/mL
N8VGPP	methadone		11	3	ng/mL
	<u>Additional Analyte(s) Reported</u> salicylic acid		200		ng/mL
NEUM22	methadone	✓			
NLEJBH	No drugs/metabolites detected utilizing confirmatory methods.				
NPBCZ7	Methadone	✓			
NU9N4J	No drugs/metabolites detected utilizing confirmatory methods.				
NUJWN4	Methadone	✓	Positive		ug/mL
NZ2CWN	Methadone		<50	<10	ng/mL

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
PAEA6K	No drugs/metabolites detected utilizing confirmatory methods.				
PAUXXY	Methadone	✓			
PCKDPZ	methadone		0.0111	0.0013	mg/L
	<u>Additional Analyte(s) Reported</u>				
	bupropion-hydroxy metabolite	✓			
	caffeine	✓			
	cetirizine	✓			
	o-desmethylvenlafaxine	✓			
	phenibut	✓			
	telmisartan	✓			
	tianeptine	✓			
PRVKPX	No drugs/metabolites detected utilizing confirmatory methods.				
PT8HU3	Methadone	✓			
Q7EL2H	No drugs/metabolites detected utilizing confirmatory methods.				
QCE8K6	Methadone	✓			
QHN3QZ	No drugs/metabolites detected utilizing confirmatory methods.				
RHGBCN	<u>Additional Analyte(s) Reported</u>				
	Caffeine	✓			
RPM6DC	No drugs/metabolites detected utilizing confirmatory methods.				
RUX3XD	Methadone		12		ng/mL
TALUX6	Methadone	✓			
TZ3XDC	Methadone		10.86	+/- 11%	ng/mL
ULB46A	No drugs/metabolites detected utilizing confirmatory methods.				
UVXCH7	No drugs/metabolites detected utilizing confirmatory methods.				
V7TMM7	Methadone	✓			
	Methadone EDDP	✓			
VKGPA6	methadone		12.50	1.25	ng/ml

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
VQKQ8D	methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	EDDP	✓			
W6WRGA	No drugs/metabolites detected utilizing confirmatory methods.				
WDQWBB	No drugs/metabolites detected utilizing confirmatory methods.				
XMU6RV	Methadone	✓			
XN67DU	Methadone		12	± 3	ng/ml
YB499F	<u>Additional Analyte(s) Reported</u>				
	erythrohydroxybupropion	✓			
	hydroxybupropion	✓			
	threohydroxybupropion	✓			
YCPGD4	No drugs/metabolites detected utilizing confirmatory methods.				
YHVCTX	Methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	Hydroxybupropion	✓			
YQCLML	methadone		present, <10	N/A	ng/mL
Z7427C	No drugs/metabolites detected utilizing confirmatory methods.				
ZDLTRN	Methadone		10.7	+/- 1.6	ng/mL
ZEYJHK	Methadone	✓			
	<u>Additional Analyte(s) Reported</u>				
	Gabapentin	✓			
	Hydroxybupropion	✓			
	Venlafaxine	✓			

Confirmatory Response Summary for Item 3		Participants: 90
Methadone:	43	
Other Identified Drugs/Metabolites:	21	
No Drugs/Metabolites Detected Utilizing Confirmatory Methods:	43	

Total number of confirmatory responses above may be more than the number of participants due to multiple drugs/ metabolites being reported.

Raw Data - Item 3

TABLE 3C

Item 3 Raw Data - Methadone Preparation concentration: 11.6 ng/mL*

*This value is the Grand Mean compiled by quantitative results of at least 10 participants (see Manufacturer's Information).

WebCode	List of Raw Data determinations (ng/mL)						Participant Mean
2C2Y7Z	11.908	11.960					11.940
4XYL9K	11.400	10.600					11.000
A38JWN	12.774						12.770
AV6PMT	12.410						12.410
B74G8Z	11.410						11.410
E393QR	12.900						12.900
FKP3E8	11.400	10.500					10.950
HEBQBK	12.210						12.210
HYDMML	3.7090	2.7080	3.5620	4.9610	6.1180	5.3950	4.4090 X
JJNABK	9.3360						9.3360
ML2D87	13.500	13.330					13.420
N33X9M	12.390						12.390
N8VGPP	11.000	11.000					11.000
NZ2CWN	10.000						10.000
PCKDPZ	10.610	11.670					11.140
RUX3XD	11.730						11.730
TZ3XDC	10.860						10.860
VKGPA6	12.500						12.500
XN67DU	12.635						12.640
YQCLML	9.7470						9.7470
ZDLTRN	10.700	10.700					10.700

Statistical Analysis for Item 3 - Methadone

Grand Mean	11.55	Number of Participants Included	20
Standard Deviation	1.12	Number of Participants Excluded	1

Reporting Procedures - Item 3

TABLE 3D - Item 3

WebCode	Quantitative Reporting Procedures
26KJHW	A single determination.
2C2Y7Z	The mean of duplicate/several determinations.
2KVVAP	A single determination.
4XYL9K	The sample is analyzed in duplicate, and the results have to be within +/-20% of their mean. The lowest of the two quantitative results is reported.
A38JWN	A single determination.
AV6PMT	A single determination.
B74G8Z	A single determination.
CYWEEJ	A single determination.
E393QR	A single determination.
FKP3E8	Lowest concentration reported from duplicate analysis for LC/MS/MS.
HEBQBK	A single determination.
HYDMML	The mean of duplicate/several determinations.
JJNABK	A single determination.
M42ZZQ	The mean of duplicate/several determinations.
ML2D87	The mean of duplicate/several determinations.
N33X9M	A single determination.
N8VGPP	The mean of duplicate/several determinations.
NEUM22	A single determination.
NPBCZ7	A single determination.
NUJWN4	A single determination.
NZ2CWN	A single determination.
PAUXXY	A single determination.
PCKDPZ	The mean of duplicate/several determinations.
PT8HU3	A single determination.
RUX3XD	A single determination.
TALUX6	A single determination.
TZ3XDC	A single determination.
VKGPA6	A single determination.
XMU6RV	A single determination.
XN67DU	A single determination.

TABLE 3D: Reporting Procedures - Item 3

WebCode	Quantitative Reporting Procedures
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YQCLML	A single determination.
ZDLTRN	The lowest of duplicate analysis.

Response Summary for Item 3		Participants: 32
A single determination:	23 (71.9%)	
The mean of duplicate/several determinations:	6 (18.75%)	
Other:	3 (9.4%)	

Methods of Analysis - Item 3

TABLE 3E - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
26KJHW	Immunoassay GC/MS	✓	✓	
2BCNF8	Immunoassay GC/MS	✓ ✓		
2C2Y7Z	Immunoassay GC/MS High resolution accurate mass LC/MS LC/MS/MS	✓ ✓ ✓		✓
2KWWAP	GC/MS	✓	✓	
2PVNNY	LC-HRMS/MS LC/MS/MS	✓	✓	
2RY3TY	LC/MS/MS	✓		
33PF4F	GC/MS LC/MS	✓ ✓	✓ ✓	
346LLQ	Immunoassay GC/MS	✓ ✓	✓	
3CHL49	Immunoassay	✓		
3KVYKX	LC-HRMS/MS LC/MS/MS	✓		✓
3LNB2D	GC/MS		✓	
47L9T4	Immunoassay LC-QTOF-MS	✓	✓	
48X3BP	Immunoassay GC/MS	✓ ✓		
4AWKZQ	LC/MS	✓	✓	
4XYL9K	LC/MS/MS	✓	✓	✓
4Y4XHN	Immunoassay GC/MS	✓ ✓		
6767L2	Immunoassay	✓		
67P9D6	Immunoassay	✓		
69QAH8	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
7M2FJX	Immunoassay LC/MS/MS	✓ ✓		
8KD4JR	Immunoassay GC/MS	✓ ✓		
8XLZMU	Immunoassay	✓		
A38JWN	Immunoassay GC/MS LC/MS/MS	✓	✓	✓
A3L2X9	LC/MS/MS	✓	✓	
AB2PQP	Immunoassay GC/MS	✓ ✓		
AV6PMT	LC/MS/MS	✓	✓	✓
B6RTJU	Immunoassay	✓		
B74G8Z	LC/MS/MS	✓	✓	✓
BD3AXL	Immunoassay GC/MS	✓	✓	
CKYA6M	Immunoassay LC/QTOF-MS LC/MS GC/MS	✓ ✓	✓ ✓	
CYWEEJ	Immunoassay GC/MS GC/FID	✓ ✓	✓ ✓	
D4TXWE	HR-LCMS/MS LC/MS/MS	✓	✓	✓
DGDZFL	Immunoassay GC/MS	✓	✓	
DGYUFG	Immunoassay LC/MS/MS	✓ ✓		
DJAUGG	LC-HRMS/MS GC/MS LC/MS/MS	✓ ✓	✓	✓
DQKUEK	Immunoassay	✓		
DZQNMR	GC/MS	✓		
E393QR	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	✓

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
EA8UUF	Immunoassay GC/MS	✓ ✓		
ERU7MA	Immunoassay	✓	✓	
ERY3ED	LC-HRMS/MS LC/MS/MS	✓	✓	
EVC4HR	Immunoassay GC/MS	✓ ✓		
EXE4F3	LC/MS/MS	✓	✓	
EZJUKW	Immunoassay GC/MS	✓ ✓	✓	
F82KLH	LC/MS/MS	✓		
FCWUTG	Immunoassay	✓		
FKB3F8	Immunoassay	✓	✓	
FKP3E8	LC/MS/MS	✓	✓	✓
FY9C2R	Immunoassay GC/MS	✓	✓	
G2RNFN	Immunoassay GC/MS	✓ ✓		
G36WJM	Immunoassay	✓		
GDHLXD	GC/MS LC/MS/MS	✓ ✓	✓	
GL4PPU	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	✓
GTXFUW	Immunoassay GC/MS	✓ ✓		
GU6ZEQ	Immunoassay	✓		
HEBQBK	LC/MS/MS	✓	✓	✓
HF9VVL	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	
HTF8KE	Immunoassay	✓		
HU8JYD	LC-HRMS/MS LC/MS/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
HYDMML	Immunoassay LC/MS/MS	✓	✓	✓
HYYCTM	Immunoassay GC/MS	✓ ✓		
J26FHA	LC/MS/MS	✓		
J4A4XZ	Immunoassay LC/MS/MS	✓ ✓		
JJNABK	LC/MS/MS	✓	✓	✓
K3VWCH	LC/MS/MS GC/MS Immunoassay	✓ ✓ ✓	✓	
KBL6GZ	Immunoassay LC-QTOF	✓	✓	
KH72JP	Immunoassay GC/MS GC/NPD &/or MS LC/MS/MS	✓ ✓ ✓ ✓		
KMEQF4	Immunoassay GC/MS	✓ ✓	✓	
LG6UAA	LC/MS/MS		✓	
LLJWH6	hrams LC/MS/MS	✓	✓	
LZPT28	LC/MS/MS High Resolution Accurate Mass Spectrometry	✓	✓	✓
M2AQMx	Immunoassay LC-QTOF LC/MS/MS	✓ ✓		✓
M42ZZQ	LC/MS/MS Immunoassay LC-QTOF-MS	✓ ✓ ✓	✓	✓
MFV32T	GC/MS		✓	
ML2D87	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	✓
MTFKUW	Immunoassay LC-QTOF	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
MWHEUM	Immunoassay LC-QTOF-MS GC/MS	✓ ✓		
MYNK48	Immunoassay	✓		
MZCHEE	Immunoassay LC/MS/MS	✓	✓	✓
N33X9M	LC/MS/MS	✓	✓	✓
N8VGPP	Immunoassay LC/MS/MS LC-TOFMS	✓ ✓ ✓	✓ ✓	✓
NEUM22	Immunoassay GC/MS	✓	✓	
NHDG6T	GC/MS LC/MS	✓ ✓		
NLEJBH	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	✓
NPBCZ7	Immunoassay GC/MS GC/FID	✓	✓ ✓	
NU9N4J	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	✓
NUJWN4	GC/MS Immunoassay LC/MS/MS	✓ ✓	✓ ✓	✓
NWDJJF	Immunoassay GC/MS	✓ ✓		
NZ2CWN	UPLC-QTOF-MS	✓	✓	✓
P3LKJU	Immunoassay	✓		
PAEA6K	Immunoassay GC/MS LC/QTOF/MS	✓ ✓	✓	
PAUXXY	Immunoassay GC/MS	✓ ✓	✓	
PCKDPZ	Immunoassay LC/MS/MS LCQTOF	✓ ✓	✓ ✓	✓

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
PRVKPX	Immunoassay LC-QTOF	✓ ✓	✓	
PT8HU3	Immunoassay GC/MS GC/FID	✓	✓ ✓	
PU66T7	LC/MS/MS	✓		
Q2MUT7	Immunoassay	✓		
Q7EL2H	Immunoassay QTOF GC/MS	✓ ✓	✓	
QCE8K6	Immunoassay GC/MS GC/FID	✓ ✓	✓ ✓	
QHN3QZ	Immunoassay GC/MS GC/FID	✓	✓ ✓	
QUCAHA	Immunoassay LC/Ion-Trap	✓ ✓		
QUXZDF	Immunoassay GC/MS	✓ ✓		
RHGBCN	GC/MS		✓	
RPM6DC	LC/MS/MS GC/MS Immunoassay	✓ ✓	✓	✓
RUX3XD	GC/MS LC/MS/MS Immunoassay	✓ ✓	✓	✓
RXJJAC	LC/MS/MS	✓		
TALUX6	Immunoassay GC/MS GC/FID	✓ ✓	✓ ✓	
TK2KYV	Immunoassay	✓		
TPAAVA	Immunoassay	✓		
TZ3XDC	LC/MS/MS	✓	✓	✓
ULB46A	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	✓

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
UVXCH7	Immunoassay LC/MS/MS	✓	✓	✓
V7TMM7	Immunoassay LC/MS/MS	✓	✓	
V7ZPJ7	Immunoassay	✓		
VKGPA6	LC/MS/MS	✓	✓	✓
VQKQ8D	LC/MS/MS	✓	✓	
WYAPV	Immunoassay GC/MS	✓ ✓		
W6WRGA	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
WDQWBB	Immunoassay LC-QTOF GC/MS	✓	✓ ✓	
WVTEJU	Immunoassay GC/MS	✓ ✓		
XMU6RV	GC/MS GC/FID	✓	✓	
XN67DU	Immunoassay LC/MS/MS	✓	✓	✓
YB499F	LC-QTOF-MSMS	✓	✓	✓
YCPGD4	Immunoassay LC/MS/MS	✓ ✓	✓	
YHVCTX	Immunoassay GC/MS LC/MS/MS LC/QTOF-MS	✓ ✓	✓ ✓	
YQCLML	Immunoassay LC/MS/MS	✓	✓	✓
Z7427C	LC/MS/MS GC/MS Immunoassay	✓ ✓ ✓	✓	✓
ZDLTRN	LC/MS/MS	✓	✓	✓
ZEYJHK	LC-QTOF	✓	✓	
ZLRDEC	Immunoassay GC/MS	✓ ✓		

Response Summary for Item 3 - Methods of Analysis		Participants: 130		
	Screening	Confirmatory	Quantitation	
Immunoassay:	90	2	0	
GC/MS:	34	38	6	
LC/MS:	3	3	0	
LC/MS/MS:	35	38	29	
Other:	24	17	2	

Additional Comments for Item 3

TABLE 3F

WebCode	Item Comments
2C2Y7Z	Methadone lower limit of quantitation (LLOQ) is 100 ng/mL. Both replicate measurements of methadone were less than the LLOQ, but were greater than the limit of detection of 5 ng/mL. EDDP is not routinely confirmed.
2PVNNY	Screening: Mepivacaine and mephobarbital were used as internal standards. Limits of Detection: Gabapentin: 0.30 mg/L, Desmethylvenlafaxine: 0.050 mg/L, Methadone: 25 µg/L, Venlafaxine: 0.050 mg/L, Metoprolol: 0.025 mg/L, (Pseudo)Ephedrine: 25 µg/L
2RY3TY	LOD: Methadone - 5ng/ml
3KVYKX	IS: mepivacaine, mephobarbital, gabapentin-d4, amphetamine-d11. gabapentin LOR 0.30 mg/L, desmethylvenlafaxine LOR 0.050 mg/L, venlafaxine LOR 0.050 mg/L, EDDP LOR 3.0 mcg/L, methadone LOR 25 mcg/L, pseudoephedrine LOR 25 mcg/L
48X3BP	Promazine is the Internal Standard for Drug Screen
4AWKZQ	Internal standards Mepivacaine amphetamine-d11 methamphetamine d-11. The following drugs will not be reported due to being contaminants: gabapentin, desmethylvenlafaxine, methadone, eddp, acetaminophen. All analytes below limit of detection.
4JU4W7	Cetirizine, methadone, methamphetamine, o-desmethylvenlafaxine, tianeptine and fluconazol are detected in all samples. ¿Perhaps from the blank sample?
4XYL9K	Methadone LLOQ is 10 ng/mL with a working range of 10-500 ng/mL. The internal standard used was Methadone-D9. The extraction method used was protein precipitation with acetonitrile followed by size exclusion filtration.
4Y4XHN	Promazine used as internal standard in Drug Screen.
67P9D6	Methadone cutoff = 10ng/ml
69QAH8	Methadone below reporting
8KD4JR	Analysis performed between 05/01/2023 - 5/25/2023.
8XLZMU	The laboratory is not currently able to confirm and quantitate methadone. The results are presumptive only.
A3L2X9	A low concentration of methadone was detected in all three samples for this proficiency test.
AB2PQP	Immunoassay used was ELISA. Drug screen internal standard is Promazine. No [Laboratory] panel drugs detected in sample.
AV6PMT	Methadone LOQ 5ng/mL; ISTD Methadone-d9
CKYA6M	LC/QTOF-MS internal standards, buprenorphine-D4, diazepam-D5, diphenhydramine-D3, hydromorphone-D3, oxycodone-D3, LC-MS/MS internal standards d3-hydromorphone, d3-oxycodone, GC/MS internal standard phenyltoloxamine
D4TXWE	Internal standards: (mepivacaine, amphetamine-d11, gabapentin-d4)
DGDZFL	Confirmatory ISTD GC/MS: [Initials]. Venlafaxine was confirmed, but was not reported due to instructions to disregard its presence.
DJAUGG	Acetaminophen, Gabapentin, Norvenlafaxine, Methadone, and EDDP were detected in all 3 PT samples and were considered an unintended contaminate not reported by the PT provider.
DZQNMR	Extraction using Quechers Method followed by Derivatization using TMS. Analysed by [initials] on GCMS
EA8UUF	The internal standard used for the full panel drug screen procedure was promazine.

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
ERY3ED	LCMSMS IS - mepivacaine, cocaine-d3, amp/meth-d11, BZE-d8 Found LOR and in all 3 samples (possible contaminants?): gabapentin, norvenlafaxine, EDDP, methadone
FCWUTG	Immunoassay: Methadone cutoff 10 ng/mL.
FKP3E8	Methadone/Methadone-D9, LLOQ 10ng/mL, working range 10-500ng/mL.
FY9C2R	Confirmatory ISTD GC/MS: [initials]. Venlafaxine was confirmed, but was not reported due to instructions to disregard it's presence.
G2RNFN	dates of analysis 04/30/23-06/12/23
GDHLXD	Cetirizine, Gabapentin, Methadone and traces of EDDP were detected in all three Items. Traces of ephedrine/pseudoephedrine was detected in Item 3.
GL4PPU	Methadone was below reporting limit (40ng/mL)
GU6ZEQ	Screening only/no confirmation testing performed.
HEBQBK	Methadone LOQ 5ng/mL, ISTD Methadone-D9
HF9VVL	Immunoassay screen was negative. Sample screened positive on LC/MS/MS for methadone. Confirmation testing came back below our reporting limits.
HTF8KE	Immunoassay: Methadone cutoff: 10ng/mL.
HU8JYD	mepivacaine
J26FHA	LC-HRMS/MS used for screening method.
JJNABK	Venlafaxine not evaluated- CTS reports low levels detected and should be disregarded.
KBL6GZ	The LC-QTOF qualitative analysis also indicated the presence of methadone, EDDP, cetirizine, norvenlafaxine and tianeptine. As these were present in the other exhibits, they were not reported. Venlafaxine was detected, but not reported per instructions. There was a low level of hydroxybupropion (well below our LOQ) and ephedrine/pseudoephedrine, which we do not confirm. We do not test for GHB in our post-mortem section.
KMEQF4	Butyl Acetate Screen - Promazine (IStd)
LZPT28	Mepivacaine and mephobarbital were the internal standards used for the high resolution accurate mass spectrometry during drug screening. Gabapentin-d4 and mepivacaine were the internal standards used for LC/MS/MS testing for certain basic drugs. Amphetamine-d11 and methamphetamine-d11 were the internal standards used for testing for certain amphetamines. Drugs detected in screen were <LOR during testing.
M42ZZQ	methadone LOQ 25 ng/mL - methadone result < LOQ - pseudoephedrine LOD 6.25 ng/mL, not detected by confirmation method - confirmation is pending for other identified drugs
MFV32T	Internal standard tetracosane
ML2D87	Methadone confirmed at similar, low level concentrations in all three proficiency test samples. The Methadone appears to be inherent to the proficiency test matrix.
MTFKUW	Other analytes were detected via LC-QTOF but were below threshold for quantitation.
MWHEUM	Mepivacaine - Internal Standard. Hydroxy bupropion and O-desmethylvenlafaxine not confirmed by GCMS.
MYNK48	Immunoassay: Methadone cutoff: 10ng/mL.

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
MZCHEE	Analysis by high performance liquid chromatography/tandem mass spectrometry in whole blood for: Opiates, Opioids, and Stimulants confirmation panel: Analyte Quantitative Range (ng/mL) Fentanyl 0.5 – 50 Norfentanyl 0.5 – 50 (QC failed, data not reported) Codeine 5.0 – 500 Hydrocodone 5.0 – 500 Morphine 5.0 – 500 Hydromorphone 5.0 – 500 Oxycodone 5.0 – 500 Oxymorphone 5.0 – 500 Methadone 20 – 2000 EDDP 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 Cocaine 20 – 2000 Benzoyllecgonine 20 – 2000 Measurement uncertainty is reported at a 95.45% level of confidence for all quantitative blood drug analyses. Analysis by immunoassay screening in whole blood for: Assay Cutoff* (ng/mL) Meth /Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Meprobamate 100 Methadone 10 Opiates 10 Opioids 10 Phencyclidine 5 TCA 25 Tramadol 5 Zolpidem 10 * Results within 20% of these concentrations are also reported as preliminarily positive. [Participant submitted data in a format that could not be reproduced in this report.]
N8VGPP	The salicylic acid result would be reported as approximate as there is no uncertainty
NHG6T	Estazolam was used as internal standard
NUJWN4	No buprenorphine or norbuprenorphine was detected in the confirmatory test using LC/MS/MS. Methadone is a qualitative only drug from our basic extraction.
NZ2CWN	Screening: UPLC-QTOF MS (Waters). For UPLC-QTOF MS - Internal Standards: Cyclobarbitone, Prazepam & D3-Methadone. Methadone: LOD for Methadone: 1 ng/mL
P3LKJU	The laboratory only screens for the following drugs/drug classes utilizing the Enzyme Linked Immunosorbent Assay (ELISA): amphetamines, benzodiazepines, cannabinoids, cocaine, opiates, and pcp. The opiates screening panel does not include fentanyl. If no drugs are detected with the standard screening panel, additional testing will not be performed on the sample unless specifically directed by the submitting agency. The submitting agency must indicate what drug to test for; the lab will only test the drug if a method and proper standards are available.
PAEA6K	Hydroxy bupropion and O-desmethylvenlafaxine were not confirmed. Acetaminophen, Cotinine, and Naproxen were indicated. Internal standard used was Mepivacaine.
PRVKPX	IS used in QTOF analyses: Fentanyl-D5, Imipramine-D3, MDMA-D5, Methaqualone-D7, and Triazolam-D4. Caffeine, Cetirizine, EDDP, Ephedrine/pseudoephedrine, Fluconazole, Hydroxybupropion, Methadone, Norvenlafaxine, Tianeptine and Venlafaxine disregarded.
Q7EL2H	Internal standard used was Mepivacaine
RHGBCN	Internal standard: Flurazepam and tetracosane.
RPM6DC	OPB Extraction data: Methadone 2.53 ng/mL (LOQ = 40 ng/mL)
RXJJAC	Sample was screened using Immunoassay and LC/MS/MS.
TPAAVA	DOA Ultra Whole Blood Array on Radox Evidence Investigator was conducted. The Limits of detection of the various analytes are listed below. Oxycodone-10ng/mL, Opiate-10ng/mL, Generic Opioids- 10ng/mL, Dextromethorphan-5ng/mL, Meprobamate- 100ng/mL, Amphetamine-20ng/mL, Barbiturates-50ng/mL, Benzodiazepines-10ng/mL, Methadone-10ng/mL, Phencyclidine-5ng/mL, Cocaine Metabolite (BZG)-50ng/mL, Zolpidem-10ng/mL, Tricyclic Antidepressants (TCA) -60ng/mL, Cannabinoids (THC)-10ng/mL, Tramadol 5ng/mL, Fentanyl 1ng/mL, Buprenorphine-1 ng/mL. Note methadone was detected at borderline concentration 9.88ng/mL
TZ3XDC	o-desmethylvenlafaxine was below cutoff for confirmation. Venlafaxine was confirmed at 5.79 ng/mL +/- 18%) but was not listed as the CTS instructions indicated that this compound should be disregarded for this sample.
ULB46A	Methadone: LC/MS/MS for screen (LOD 10ng/mL) and GC/MS for confirmation/quantitation (LOQ 40ng/mL). No reportable amount was found.

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
UVXCH7	Analysis by immunoassay screening in whole blood for: Assay Cutoff* (ng/mL) Meth /Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Meprobamate 100 Methadone 10 Opiates 10 Opioids 10 Phencyclidine 5 TCA 25 Tramadol 5 Zolpidem 10 * Results within 20% of these concentrations are also reported as preliminarily positive. Opiates, Opioids, and Stimulants confirmation panel: Analyte Quantitative Range (ng/mL) Fentanyl 0.5 – 50 Norfentanyl 0.5 – 50 Codeine 5.0 – 500 Hydrocodone 5.0 – 500 Morphine 5.0 – 500 Hydromorphone 5.0 – 500 Oxycodone 5.0 – 500 Oxymorphone 5.0 – 500 Methadone 20 – 2000 EDDP 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 Cocaine 20 – 2000 Benzoyllecgonine 20 – 2000 Measurement uncertainty is reported at a 95.45% level of confidence for all quantitative blood drug analyses. [Participant submitted data in a format that could not be reproduced in this report.]
V7TMM7	Codeine D3 is used as an Internal Standard
V7ZPJ7	Our laboratory is not currently able to confirm methadone, which is why confirmation testing was not performed. These results are from the pre-distribution analysis.
VKGPA6	Methadone LOQ 5ng/ml - ISTD methadone-d9
WVTEJU	Internal standard: Promazine (GCMS drug screen).
XMU6RV	GC/FID for confirmation
XN67DU	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Methadone confirmation panel used methadone-D3 as the internal standard. Methadone has a LOD of 5ng/ml and a LOQ of 10ng/ml.
YHVCTX	Internal standards: buprenorphine-d4, diazepam-d5, diphenhydramine-d3, hydromorphone-d3, oxycodone-d3, phenyltoloxamine
YQCLML	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Methadone confirmation panel uses methadone-D3 as an internal standard. Methadone has a LOD of 5 ng/mL and LOQ of 10 ng/mL. Drug results quantitating below the LOQ but greater than the LOD are reported as present, less than (LOQ value).
Z7427C	Methadone (5.54ng/mL) not reportable
ZEYJHK	GC-QQQ analysis was performed on each item number for cannabinoid determination. COOH_THC results are qualitative only.

Additional Test Comments

TABLE 4

WebCode	Additional Comments
2RY3TY	Similar low level of methadone detected in each sample.
47L9T4	* Item 1 and item 3 tested positive for Methadone in Immunoassay, and item 2 gave suspected results for Methadone in Immunoassay. * All of the three blood samples tested positive for Methadone in LCQTOF. * We suspect that the blood sample blanks used to prepare the PT samples are contaminated with Methadone.
4AWKZQ	The following drugs will not be reported due to being contaminants: gabapentin, desmethylvenlafaxine, methadone, eddp.
67P9D6	Yesly screening was performed, no confirmatory testing was complete
AB2PQP	Testing limited to drugs included on the [Laboratory] Panel.
B74G8Z	Two aliquots received for each item. Tube A's tested, methadone detected. Tube B's then tested, methadone detected.
DJAUGG	Better communication of contaminants would make this PT more fair. We spend a lot of time following contaminants. It also adds to concerns of unintended failures due to guessing if you meant to put certain things in the PT or not. Predistribution should be more intentional about focusing on labs with broader screening techniques and better sensitivity.
J26FHA	Several drugs were present at trace levels in all three samples. These drugs include: acetaminophen, gabapentin, desmethylvenlafaxine, eddp, and methadone. A proficiency test provider should be expected to supply a product that is free from this many additional drugs, or at a minimum have those drugs listed in order to notify customers. The only drug mentioned as a contaminant for this proficiency test was venlafaxine. It is unacceptable to consider this as a quality product.
JJNABK	A targeted LCMS-QQQ screen was performed on the sample for the following compounds: 6-MAM, 7-aminoclonazepam, 7-aminoflunitrazepam, 9-Hydroxyrisperidone, 10-Hydroxycarbamazepine, Acetyl Fentanyl, Acetyl Norfentanyl, a-hydroxyalprazolam, alpha-hydroxymidazolam, alpha-PHP, alpha-PVP, Alprazolam, Amitriptyline/Maprotiline, Amphetamine, Benzoyllecgonine, Brompheniramine, Buprenorphine, Bupropion, Carbamazepine, Carisoprodol, Chlordiazepoxide, Chlorpheniramine, Chlorpromazine, Citalopram, Clomipramine, Clonazepam, Clonazepam, Clozapine, Cocaethylene, Cocaine, Codeine, Cyclobenzaprine, Desipramine, Dextromethorphan, Dextrorphan, Diazepam, Dihydrocodeine, Diphenhydramine, Doxepin, Doxylamine, Duloxetine, EDDP, Estazolam, Etizolam, Fentanyl, Flualprazolam, Flunitrazepam, Fluorofentanyl, Fluoxetine, Flurazepam, Hydrocodone, Hydromorphone, Hydroxyzine, Imipramine, Ketamine, Lamotrigine, Levamisole, Levetiracetam, Lorazepam, MDA, MDEA, MDMA, Meperidine, Meprobamate, Methocarbamol, Methadone, Methamphetamine, Methylphenidate, Metoprolol, Midazolam, Mirtazapine, Mitragynine, Morphine, Norbuprenorphine, Nordiazepam, Norfentanyl, Norhydrocodone, Norketamine, Normeperidine, Noroxycodone, Nortriptyline, N, N-dimethyltryptamine(DMT), O-desmethyl-tramadol, O-desmethylvenlafaxine, Olanzapine, Oxazepam, Oxycodone, Oxymorphone, Paroxetine, Phenazepam, Phentermine, Phencyclidine, Phenytoin, Primidone, Promethazine, Pseudoephedrine, Quetiapine, Risperidone, Sertraline, Sufentanil, Tapentadol, Temazepam, Topiramate, Tramadol, Trazodone, Venlafaxine, Zaleplon, Zolpidem, Zopiclone, THC, Hydroxy-THC and Carboxy-THC.
KBL6GZ	Both tubes were extracted for each exhibit for QTOF analysis because of the other analytes detected (methadone, EDDP, cetirizine, norvenlafaxine and tianeptine) to insure these were contaminants of the specimens, not the extraction/instrumentation.
LLJWH6	Gabapentin found below our limit of report and wasn't reported for all samples. Several other drugs were found below our limit of report for all samples: methadone, eddp, norvenlafaxine
LZPT28	Several drugs were found to be possible artifacts the specimens submitted, one of which was gabapentin which quanted at LLC levels for two of the three specimens.

TABLE 4

WebCode	Additional Comments
M42ZZQ	Several analytes were identified by screening method (LC-QTOF-MS) in all samples - phenibut, gabapentin, O-desmethylenlafaxine, tianeptine, cetirizine, methadone
MKPBMT	trace levels of Gabapentin and methadone detected in each sample
ML2D87	Methadone confirmed at similar, low level concentrations in all three proficiency test samples. The Methadone appears to be inherent to the proficiency test matrix.
NZ2CWN	Traces of Telmisartan, Naproxen, Ibuprofen & Salicyclic Acid were detected for all samples.
TZ3XDC	Samples were received into laboratory system on 4/28/23, received in [Laboratory] on 5/2/23, and checked out by the analyst on 5/5/23.
W6WRGA	Caffeine was detected in all three items and venlafaxine was detected in item 3
WVTEJU	Reported drugs limited to [Laboratory] Toxicology drug panel.
ZEYJHK	CTS blank blood has the appearance of having low level concentrations of drug compounds that are not screened for before sample production. 06/22/23

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 23-5661: Blood Drug Analysis

DATA MUST BE SUBMITTED BY **June 26, 2023, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234K

WebCode: 27AWUL

Scenario:

Investigators have submitted two vials of blood from each of three separate cases for your analysis. Using your laboratory's procedures, analyze each item and report the presence of any drugs and/or metabolites.

Case 1: An 18 year-old male was stopped by police for drifting in between lanes. A Drug Recognition Expert arrived and noted that the individual was drowsy and confused. The result of a breath alcohol test was 0.00%. Blood was collected 30 minutes later.

Case 2: A 45 year-old female was found unresponsive in her hospital bed after being admitted for suspected drug overdose. Blood samples were collected at the autopsy.

Case 3: A 35 year-old female crashed her car into a pole. Witnesses told police the driver was swerving before she crashed. She was administered a breath alcohol test. The result of the breath alcohol test was 0.00%. Blood was collected 60 minutes later.

-Verification testing showed a low level of Venlafaxine in Item 3, please disregard this as well as artifacts of production, methanol and acetonitrile.

***PLEASE NOTE** The purpose of this test is the examination of drugs listed in section 1308 of Title 21 Code of Federal Regulations under the United States Controlled Substances Act that fall into the following classes: benzodiazepines, nonbenzodiazepine hypnotics (z-drugs), barbiturates, opioids, illicit hallucinogens, illicit stimulants, illicit depressants, and cannabinoids. Please test accordingly.*

Items Submitted (Sample Pack BDRG):

Item 1: Two vials of blood from Case 1

Item 2: Two vials of blood from Case 2

Item 3: Two vials of blood from Case 3

Screening Results for Item 1:

1-1). Please indicate the screening results for Item 1.

- No drugs detected utilizing screening methods.
- Drug(s) detected (list each class and/or drug name below).

Confirmatory Results for Item 1:

1-2). Was confirmatory analysis performed for this item? Yes No

1-3). What drugs/metabolites were detected in Item 1? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	(<input style="width: 40%;" type="text"/>)
Date(s) Analysis Performed on Analyte: <input style="width: 80%;" type="text"/>				
Raw Data (ng/mL):				
<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>

1-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination? The mean of duplicate / several determinations?
- Other? (Specify):

1-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation.

Please list each method only once.

Method Used	Screening	Confirmatory	Quantitation
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1-6). **Additional Comments for Item 1**

Please include any relevant information such as internal standard(s) used, limits of detection, etc.

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

Screening Results for Item 2:

2-1). Please indicate the screening results for Item 2.

- No drugs detected utilizing screening methods.
- Drug(s) detected (list each class and/or drug name below).

Confirmatory Results for Item 2:

2-2). Was confirmatory analysis performed for this item? Yes No

2-3). What drugs/metabolites were detected in Item 2? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	(<input style="width: 40%;" type="text"/>)
Date(s) Analysis Performed on Analyte: <input style="width: 80%;" type="text"/>				
Raw Data (ng/mL):				
<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>

2-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination? The mean of duplicate / several determinations?
- Other? (Specify):

2-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

Method Used	Screening	Confirmatory	Quantitation
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2-6). Additional Comments for Item 2

Please include any relevant information such as internal standard(s) used, limits of detection, etc.

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

Screening Results for Item 3:

3-1). Please indicate the screening results for Item 3.

- No drugs detected utilizing screening methods.
- Drug(s) detected (list each class and/or drug name below).

Confirmatory Results for Item 3:

3-2). Was confirmatory analysis performed for this item? Yes No

3-3). What drugs/metabolites were detected in Item 3? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	(<input style="width: 40%;" type="text"/>)
Date(s) Analysis Performed on Analyte: <input style="width: 80%;" type="text"/>				
Raw Data (ng/mL):				
<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>

3-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination? The mean of duplicate / several determinations?
- Other? (Specify):

3-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

Method Used	Screening	Confirmatory	Quantitation
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3-6). **Additional Comments for Item 3**

Please include any relevant information such as internal standard(s) used, limits of detection, etc.

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

Test No. 23-5661 Data Sheet, continued

Participant Code: U1234K
WebCode: 27AWUL

Date Samples Received:

Additional Comments on Test

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is not intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

Have the laboratory's designated individual complete the following steps **only if your laboratory is accredited in this testing/calibration discipline** by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.

ANAB Certificate No.
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety.

Authorized Contact Person and Title

Laboratory Name

Location (City/State)