



Urine Drug Analysis Test No. 20-5671

Summary Report

A sample set contained one specimen bottle of human urine for each of the three case scenarios. Participants were requested to examine these items and report their findings. Data were returned from 110 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

The sample sets consisted of a specimen bottle containing 50mL of human urine from three cases, each with an individual case scenario. Participants were requested to analyze the urine samples and report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and the methods used.

SAMPLE PREPARATION: The urine used in this test was from the same lot, which tested negative for a variety of common drugs and controlled substances. A stock solution of each chosen drug was used to spike each item. Items were prepared at separate times with different glassware using the following procedure.

ITEMS 1 and 3 (POSITIVE SAMPLE PREPARATION): Sample preparation consisted of adding a predetermined amount of drug stock solution to a beaker containing human urine, where the equivalent of 2% w/v sodium fluoride was added and then stirred. A 50mL aliquot of the mixture was then transferred into each of the pre-labeled specimen bottles. All bottles were stored in a refrigerator immediately after production and remained there until the sample sets were prepared.

ITEM 2 (NEGATIVE SAMPLE PREPARATION): Sample preparation consisted of adding the equivalent of 2% w/v sodium fluoride to a beaker containing human urine, which was then stirred. A 50mL aliquot of the mixture was then transferred into each of the pre-labeled specimen bottles. All bottles were stored in a refrigerator immediately after production until the sample sets were prepared.

SAMPLE SET ASSEMBLY: A sample set was created by packing an Item 1, 2, and 3 together. Each sample set was placed into a Department of Transportation regulated shipping container and returned to the refrigerator until shipment.

VERIFICATION: The laboratories that conducted predistribution testing, reported consistent results for Items 1 and 2. For Item 3, two laboratories identified the 7-amino flunitrazepam and Ketamine, one of which also identified the metabolite Norketamine. The third laboratory did not identify a drug class in Item 3. These Item 3 findings were investigated thoroughly and the sample was deemed acceptable for release in this test.

<u>Item 1 Drug (Concentration)</u>	<u>Item 2 Drug (Concentration)</u>	<u>Item 3 Drug (Concentration)</u>
11-Nor-9-carboxy-delta-9-THC (125 ng/mL)	No drugs/metabolites added	7-amino flunitrazepam (480 ng/mL) Ketamine (350 ng/mL) Norketamine (575 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 wait for the Grand Mean statistics available in the Summary and Individual Reports before evaluating performance.		

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 urine. Each participant was supplied with one specimen bottle containing 50mL of human urine for each of the three case scenarios. Two specimen bottles in each case were spiked with varying concentrations of differing drugs and/or metabolites while the third specimen bottle was not spiked. Participants were asked to report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and methods used. (Refer to the Manufacturer's Information for preparation details.)

There were 110 participants who reported screening results for Item 1. The presence of a cannabinoid was reported by all participants. Of the participants who performed confirmatory analysis, 86 participants reported 11-nor-9-carboxy-delta 9-THC (carboxy-THC). There were five participants that reported no drugs/metabolites detected, after four of them identified cannabinoids at the screening stage. This includes labs that were unable to confirm due to the absence of a validated method. Twelve participants confirmed a THC metabolite was present but did not identify the metabolite.

Item 2 contained no drugs or metabolites, which was reported by 105 of the 108 participants that reported screening results. Of the remaining three participants, two reported Amphetamine and one reported caffeine. All participants who moved forward with further testing, including the three participants that had positive screening results, confirmed no drugs or metabolites present in Item 2.

There were 109 participants who reported screening results for Item 3. The majority of participants (47.7%) reported the class of Benzodiazepines followed by Ketamine, Norketamine, and 7-amino flunitrazepam. Twenty-six participants (23.8%) reported no drugs detected during screening. Of the 98 participants who moved forward with confirmatory testing, including 17 of the 26 participants that reported no drugs detected in their screening results, 95.9% confirmed the presence of Ketamine, 86.7% confirmed the presence of 7-amino flunitrazepam, and 58.1% confirmed the presence of Norketamine. Three participants reported that no drugs or metabolites were detected, two of which also reported negative screening results.

For all three items, immunoassay was the most common screening method and GC/MS was the most common confirmatory method utilized to analyze the samples.

For participants that did not include raw data but did report a final concentration in ng/ml based on a single determination, this concentration value was added to the Raw Data table. Due to the small number of participants who reported quantitative information, no grand mean statistics were calculated or determinations regarding "extreme" data made for any of the analytes in the three items.

Screening Results - Item 1

TABLE 1A - Item 1

Item Scenario:

Case 1: A 23-year-old male was pulled over after failing to stop at a stop sign. The officer noticed that the driver appeared very lethargic and exhibited slow movements. A urine sample was collected for analysis two hours after the incident had occurred.

Item Contents and Preparation Concentration: 11-Nor-9-carboxy-delta-9-THC (125 ng/mL)

WebCode	Screening Results
28JWZJ	Cannabinoids
2CDTPA	Cannabinoids
2FV7AX	Sample 1 screened positive for Cannabinoids.
2V8P2X	Cannabinoids
2VT3PB	(+/-)-11-nor-9-Carboxy-delta-9-THC
2Y4BQF	ELISA Cannabinoids
38ZM9U	cannabinoids
3EG28T	cannabinoids
3HGC3T	Item No.1- THC-M
3MAGUC	Cannabinoids- THC-metabolite (THC-COOH)
3VN33F	THC-COOH
3WY6PE	cannabinoids
3XQZD9	delta-9-tetrahydrocannabinol
4D24EU	Cannabinoids
4XPLMT	cannabinoids
6BPNH8	Cannabinoids
6HQ47U	Cannabinoids
6UJEKT	Cannabinoids
7236JT	THC-COOH, 11-hydroxy-delta-9-tetrahydrocannabinol, a metabolite of THC
74PNJ6	THC
7ATVX9	(-)-11-nor-9-carboxy-delta-9-tetrahydrocannabinol
7HK7BP	Marijuana (THC)
7MFZ9Q	Cannabinoids
7RV8WP	Cannabinoids

TABLE 1A: Screening Results (Item 1)

WebCode	Screening Results
82D9P6	11-NOR-DELTA-9-THC-COOH
8FAMMD	Cannabinoids
8N8BMP	cannabinoids
8QG6KB	Marijuana
8Y7TFD	Cannabinoids
938CZQ	Delta 9 Carboxy THC
9FRR3Q	Cannabinoids
9HG6L9	Cannabinoids
9WX226	THC-COOH
9X93M4	Cannabinoids
A72U93	Cannabanoids
A8E6LA	Cannabinoids
AC843Q	THC group
ACR3YN	Cannabinoids (marijuana) --> THCA
ALBLB8	cannabinoids
ANKJNP	Cannabinoids
ATCTYM	cannabinoids (marijuana)
B2NCQL	THC metabolite
B6MMML	Cannabinoid
BM3WNL	Immunoassay screen was positive for Cannabinoids No drugs detected in GC/MS screen
C2GLX9	Cannabinoid
C92KRM	THC
CE3228	Cannabinoids
CE8EMJ	Cannabinoids
CMKBP4	cannabinoids
D9G4CK	d9-Tetrahydrocannabinol
DKQ4JX	THC-COOH

TABLE 1A: Screening Results (Item 1)

WebCode	Screening Results
E3LTD7	Cannabinoid
EG89G7	Cannabinoid(s)
EK7KC6	Cannabinoid
ENMRZ6	THC
EPXUM4	THC/THC metabolites
FC7KD4	Cannabinoids, Amphetamine
FNJKAW	THC Metabolite
FNZZ36	Cannabinoids
FTQBC3	The specimen screened positive for Cannabinoid class drugs.
GDW2BH	Cannabinoids
HCF9QZ	cannabinoids (marijuana)
HGBZYW	THC
HNT9MT	Cannabinoids
JE7PNE	Cannabinoids
K82ACC	Tetrahydrocannabinol (THC) metabolite
KR7TKT	Cannabinoids class
LPW3XA	Cannabinoids
LY2ACA	THC
LZWXQY	Cannabinoid
MDBHNX	Cannabinoid
MXM82V	Positive for cannabinoids Positive for caffeine (not confirmed)
MXZW68	Cannabinoids
N6HKJA	THCA
NNC6FU	cannabinoids
NNRPZR	Cannabinoids (carboxy-THC)
PEK73U	Cannabinoids
PENRXA	Cannabinoids

TABLE 1A: Screening Results (Item 1)

WebCode	Screening Results
PJE7HB	THC
PWHKJ9	cannabinoids (marijuana)
QCCGCQ	Cannabinoids
QDJTUR	THC
R32ERP	Cannabinoids
RWELFQ	Cannabinoids
T3Z2JM	marijuana metabolites
T7YCEM	cannabinoids (marijuana)
TDL2H7	Indicative for cannabinoids
TQL4EJ	Cannabinoids
TYW7ZK	Cannabinoids
U2J6QN	cannabinoids (marijuana)
UH7KW6	No drugs detected utilizing screening methods
UQ2MYG	cannabinoids
URBM23	Cannabinoids (marijuana)
V6X2WP	THC-Metabolite
V84FL4	Cannabis metabolites Buprenorphine
VB4VQK	Cannabinoids
VTJ4RL	Cannabinoids
VXGL72	THC-COOH
W6ADPE	THC-COOH
WMA494	11-nor-9-carboxy-delta-9-tetrahydrocannabinol (THC metabolite)
WWH3FJ	ELISA THC
XLTNXY	cannabinoids (marijuana)
XXNKDE	Cannabinoids
Y3T3PD	Tetrahydrocannabinol (THC)
Y4AYGC	Cannabinoids class

TABLE 1A: Screening Results (Item 1)

WebCode	Screening Results
Y89BDC	Cannabinoids class
YAFQKH	cannabinoids
YZANNX	THC
Z88ZUE	Cannabinoids
ZULFJX	Cannabinoids

Screening Response Summary for Item 1	Participants: 110
Cannabinoids, THC or THC metabolite:	110
No drugs/metabolites detected:	1
Other:	3
<p>Totals may add up to more than the total number of participants because participants can report multiple drugs/metabolites.</p>	

Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?

TABLE 1B - Item 1

Item Scenario:

Case 1: A 23-year-old male was pulled over after failing to stop at a stop sign. The officer noticed that the driver appeared very lethargic and exhibited slow movements. A urine sample was collected for analysis two hours after the incident had occurred.

Item Contents and Preparation Concentration: 11-Nor-9-carboxy-delta-9-THC (125 ng/mL)

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
28JWZJ	Carboxy Tetrahydrocannabinol	✓			
2CDTPA	carboxy-THC	✓			
2FV7AX	carboxy-tetrahydrocannabinol		0.114	0.030	mcg/mL
2V8P2X	11-nor-9-carboxy-delta-9-tetrahydrocannabinol	✓			
2VT3PB	(+/-)-11-nor-9-Carboxy-delta-9-THC	✓			
2Y4BQF	Delta-9 Carboxy THC	✓			
38ZM9U	11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid	✓			
3HGC3T	THC-M	✓			
3MAGUC	THC metabolite (THC-COOH)	✓			
3VN33F	THC-COOH	✓			
3WY6PE	THC-COOH (11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid)	✓			
3XQZD9	delta-9-tetrahydrocannabinol	✓			
4D24EU	Delta-9 Carboxy THC	✓			
4XPLMT	THC-COOH	✓			
6BPNH8	THC metabolite	✓			
6HQ47U	11-nor-delta9-THC-9-carboxylic acid		73.36		ng/ml
6UJEKT	THC-COOH (11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid)	✓			
7236JT	THC-COOH	✓			
74PNJ6	THC	✓			
7ATVX9	(-)-11-nor-9-carboxy-delta-9-tetrahydrocannabinol		62.1	18.6%	ng/mL
7MFZ9Q	Delta-9-Carboxy THC	✓			

TABLE 1B: Confirmatory Results
Item 1

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
82D9P6	11-NOR-DELTA-9-THC-COOH	✓			
8FAMMD	9-carboxy THC	✓			
8N8BMP	thc-cooh	✓			
8QG6KB	THCA (11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid)	✓			
8Y7TFD	11-nor-9-carboxy-delta-9-tetrahydrocannabinol	✓			
938CZQ	Delta 9 Carboxy THC	✓			
9FRR3Q	Carboxytetrahydrocannabinol	✓			
9HG6L9	Carboxy-THC	✓			
9WX226	THC-COOH	✓			
9X93M4	THC metabolite	✓			
A72U93	Tetrahydrocannabinol Metabolite	✓			
AC843Q	Delta9-THC-COOH	✓			
ACR3YN	11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid	✓			
ALBLB8	THC-COOH (11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid)	✓			
ANKJNP	11-nor-9-carboxy-delta-9-tetrahydrocannabinol	✓			
ATCTYM	THC-COOH (11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid)	✓			
B2NCQL	THC metabolite	✓			
B6MML	THC-COOH	✓			
BM3WNL	THC metabolite	✓			
C2GLX9	9-carboxy-THC	✓			
C92KRM	delta-9-tetrahydrocannabinol carboxylic acid	✓			
CE3228	No drugs/metabolites detected				
CE8EMJ	Carboxy Tetrahydrocannabinol	✓			
CMKBP4	carboxy-thc	✓			

TABLE 1B: Confirmatory Results
Item 1

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
D9G4CK	THC-COOH	✓			
DKQ4JX	THC-COOH	✓			
E3LTD7	9-Carboxy-THC	✓			
EG89G7	9-Carboxy-THC	✓			
EK7KC6	9-carboxy-THC	✓			
ENMRZ6	11-carboxy tetrahydrocannabinol	✓			
EPXUM4	THCA	✓			
FC7KD4	11-nor-9-Carboxy-THC		94	22	ng/mL
FNJKAW	THC metabolite	✓			
FNZZ36	9-carboxy-THC	✓			
GDW2BH	11-nor-delta9-carboxy-THC	✓			
HCF9QZ	THC-COOH	✓			
HGBZYW	11-nor-delta-THC-9 COOH	✓			
HNT9MT	THC-COOH	✓			
JE7PNE	11-nor-delta-9-tetrahydrocannabinol-9-c arboxylic acid	✓			
K82ACC	Tetrahydrocannabinol (THC) metabolite	✓			
KR7TKT	11-nor-9-Carboxy-Tetrahydrocannabinol		116.95	11.69	ng/mL
LPW3XA	Carboxy-Delta-9THC	✓			
LY2ACA	THC-COOH	✓			
LZWXQY	9-Carboxy-THC	✓			
MDBHNX	9-carboxy-THC	✓			
MXM82V	THC-COOH (11-nor-delta-9-tetrahydrocannabinol-9-c arboxylic acid)	✓			
MXZW68	Delta-9 Carboxy THC	✓			
N6HKJA	THCA		110		ug/L
NNC6FU	11-nor-delta-9-tetrahydrocannabinol-9-c arboxylic acid (THC-COOH)	✓			
NNRPZR	carboxy-THC	✓			
PEK73U	No drugs/metabolites detected				

TABLE 1B: Confirmatory Results
Item 1

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
PENRXA	Carboxytetrahydrocannabinol		0.117	0.031	mcg/mL
PJE7HB	THCA	✓			
PWHKJ9	THC-COOH	✓			
QCCGCQ	No drugs/metabolites detected				
QDJTUR	11-carboxy tetrahydrocannabinol	✓			
R32ERP	No drugs/metabolites detected				
RWELFQ	THC-COOH, 11-nor-delta-9-tetrahydrocannabinol-9-c arboxylic acid	✓			
T3Z2JM	11-nor-9-carboxy-delta-9-tetrahydrocann abinol (a metabolite of THC)	✓			
T7YCEM	11-nor-delta-9-tetrahydrocannabinol-9-c arboxylic acid (THC-COOH)	✓			
TDL2H7	THC-COOH	✓			
TQL4EJ	THC Metabolite	✓			
TYW7ZK	Tetrahydrocannabinol (THC) Metabolite	✓			
U2J6QN	THC-COOH	✓			
UH7KW6	No drugs/metabolites detected				
UQ2MYG	11-nor-delta-9-tetrahydrocannabinol-9-c arboxylic acid		102		ng/ml
URBM23	THC-COOH	✓			
V6X2WP	11-nor-9-carboxy-delta-9-tetrahydrocann abinol		94	19	ng/mL
V84FL4	THC-COOH		92		ng/mL
VB4VQK	9-carboxy-11-nordelta-9-THC	✓			
VTJ4RL	carboxy-THC	✓			
VXGL72	THC-COOH	✓			
W6ADPE	THC-COOH	✓			
WMA494	11-nor-9-carboxy-delta-9-tetrahydrocann abinol (THC metabolite)	✓			
WWH3FJ	Delta-9 Carboxy THC	✓			
XLTNXY	11-nor-delta-9-tetrahydrocannabinol-9-c arboxylic acid	✓			
XXNKDE	Carboxy-THC (THC Metabolite)	✓			

TABLE 1B: Confirmatory Results
Item 1

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
Y3T3PD	Tetrahydrocannabinol (THC) metabolite				
Y4AYGC	11-nor-9-carboxy-tetrahydrocannabinol (THC-COOH)		119.68	11.96	ng/mL
Y89BDC	11-nor-9-carboxy-tetrahydrocannabinol		116.79	11.67	ng/mL
YAFQKH	THC-COOH (11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid)	✓			
YZANNX	THC-cooh	✓			
Z88ZUE	Tetrahydrocannabinol (THC) Metabolite	✓			
ZULFJX	11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid	✓			

Confirmatory Response Summary for Item 1		Participants: 105
11-Nor-9-carboxy-delta-9-THC:	86	
No drugs/metabolites detected:	5	
Other:	14	
Totals may add up to more than the total number of participants because participants can report multiple drugs/metabolites.		

Raw Data - Item 1

List of raw data determinations in ng/mL.

TABLE 1C - Item 1

Item 1 Raw Data - 11-Nor-9-carboxy-delta-9-THC
Preparation concentration: (125 ng/mL)

WebCode	Raw Data (ng/mL)		
2FV7AX	114.0		114.0
6HQ47U	74.49	72.23	73.36
7ATVX9	67.60	56.60	62.10
FC7KD4	104.0	94.00	99.00
KR7TKT	117.0		117.0
N6HKJA	110.0		110.0
PENRXA	117.0		117.0
RWELFQ	94.77		94.77
UQ2MYG	102.6	102.3	102.5
V6X2WP	94.00		94.00
V84FL4	92.00		92.00
Y4AYGC	119.7		119.7
Y89BDC	116.8		116.8

Statistical Analysis for Item 1 - 11-Nor-9-carboxy-delta-9-THC			
Grand Mean	100.93	Number of Participants Included	13
Standard Deviation	17.82	Number of Participants Excluded	0
		Number of Participants without Raw Data or Data that was not reported in ng/mL	
		0	

Reporting Procedures - Item 1

If quantitative analysis was performed, the reported concentrations are:

TABLE 1D - Item 1

WebCode	Quantitative Reporting Procedures
28JWZJ	A single determination.
2FV7AX	A single determination.
6HQ47U	The mean of duplicate/several determinations.
7ATVX9	The mean of duplicate/several determinations.
9FRR3Q	The mean of duplicate/several determinations.
FC7KD4	Lower of the duplicate samples
KR7TKT	A single determination.
LY2ACA	A single determination.
N6HKJA	The mean of duplicate/several determinations.
PENRXA	A single determination.
RWELFQ	A single determination.
UQ2MYG	The mean of duplicate/several determinations.
V6X2WP	A single determination.
V84FL4	A single determination.
Y4AYGC	A single determination.
Y89BDC	A single determination.

Response Summary for Item 1	Participants: 16
A single determination:	10 (62.5%)
The mean of duplicate/several determinations:	5 (31.3%)
Other:	1 (6.3%)

Methods of Analysis - Item 1

TABLE 1E - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
28JWZJ	Immunoassay GC/MS	✓	✓	✓
2CDTPA	Immunoassay GC/MS	✓	✓	
2FV7AX	Immunoassay GC/MS	✓	✓	✓
2V8P2X	Immunoassay GC/MS	✓ ✓	✓	
2VT3PB	GC/MS	✓	✓	
2Y4BQF	Immunoassay GC/MS	✓ ✓	✓	
38ZM9U	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	
3EG28T	Immunoassay	✓		
3MAGUC	Immunoassay GC/MS	✓ ✓	✓	
3VN33F	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	✓
3WY6PE	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓	
3XQZD9	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
4D24EU	Immunoassay GC/MS	✓ ✓	✓	
4XPLMT	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	
6BPNH8	Immunoassay GC/MS	✓	✓	
6HQ47U	Immunoassay GC/MS	✓	✓	
6UJEKT	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
7236JT	Immunoassay GC/MS	✓	✓	
74PNJ6	Immunoassay GC/MS	✓	✓	
7ATVX9	LC/MS/MS HPLC-DAD	✓	✓	✓
7HK7BP	Immunoassay	✓		

TABLE 1E: Methods of Analysis
Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
7MFZ9Q	Immunoassay	✓		
	GC/MS	✓	✓	
7RV8WP	Immunoassay	✓		
82D9P6	LC/MS	✓		
	LC/MS/MS		✓	
8FAMMD	Immunoassay	✓		
	GC/MS		✓	
	LCQTOF		✓	
8N8BMP	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS	✓		
8QG6KB	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		
8Y7TFD	Immunoassay	✓		
	GC/MS		✓	
938CZQ	Immunoassay	✓		
	LC/MS/MS		✓	
9FRR3Q	LC/MS/MS		✓	
	Immunoassay	✓		
	GC/MS	✓		
	LC-TOF-MS	✓		
9HG6L9	Immunoassay	✓		
	GC/MS		✓	
9WX226	LC/MS/MS	✓		
	GC/MS		✓	
9X93M4	Immunoassay	✓		
	GC/MS		✓	
A72U93	Immunoassay	✓		
	GC/MS	✓	✓	
A8E6LA	Immunoassay	✓		
AC843Q	Immunoassay	✓		
	GC/MSMS		✓	
ACR3YN	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
ALBLB8	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS	✓	✓	
ANKJNP	Immunoassay	✓		
	GC/MS	✓	✓	
ATCTYM	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	

TABLE 1E: Methods of Analysis
Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
B2NCQL	Immunoassay GC/MS	✓ ✓	✓	
B6MMML	Immunoassay GC/MS	✓ ✓	✓	
BM3WNL	Immunoassay GC/MS	✓ ✓	✓	
C2GLX9	Immunoassay GC/MS LC-QTOF	✓	✓ ✓	
C92KRM	Immunoassay GC/MS	✓	✓	
CE3228	Immunoassay GC/MS	✓ ✓		
CE8EMJ	Immunoassay LC/MS/MS	✓	✓	
CMKBP4	LC/MS/MS GC/MS	✓	✓ ✓	
D9G4CK	Immunoassay GC/MS	✓	✓	
DKQ4JX	LC/MS LC/MS/MS	✓	✓	
E3LTD7	Immunoassay GC/MS	✓	✓	
EG89G7	Immunoassay LC-qTOF GC/MS	✓ ✓ ✓	✓ ✓	
EK7KC6	Immunoassay GC/MS LC-QTOF	✓	✓ ✓	
ENMRZ6	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	
EPXUM4	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	
FC7KD4	Immunoassay LC/MS/MS	✓	✓	✓
FNJKAW	Immunoassay GC/MS	✓	✓	
FNZZ36	Immunoassay LC-QTOF GC/MS	✓ ✓ ✓	✓ ✓	
FTQBC3	Immunoassay	✓		

TABLE 1E: Methods of Analysis
Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
GDW2BH	Immunoassay	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
HCF9QZ	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		
HGBZYW	Immunoassay	✓		
	GC/MS		✓	
HNT9MT	LC/MS/MS	✓		
	GC/MS		✓	
	Rapid Chromatographic Immunoassay	✓		
JE7PNE	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS	✓		
K82ACC	Immunoassay	✓		
	GC/MS	✓	✓	
KR7TKT	Immunoassay	✓		
	GC/MS		✓	✓
LPW3XA	Immunoassay	✓		
	GC/MS		✓	
LY2ACA	Immunoassay	✓		
	GC/MS		✓	
LZWXQY	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
MDBHNX	Immunoassay	✓		
	GC/MS		✓	
	LC-qTOF		✓	
MXM82V	Immunoassay	✓		
	GC/MS		✓	
	LC/MS	✓		
MXZW68	Immunoassay	✓		
	GC/MS	✓	✓	
N6HKJA	LC/MS/MS			✓
	GC/MS	✓		
	Immunoassay LCMS QTOF	✓ ✓		
NNC6FU	Immunoassay	✓		
	GC/MS		✓	
NNRPZR	LC/MS/MS	✓	✓	
PEK73U	Immunoassay	✓		
	GC/MS		✓	
PENRXA	Immunoassay	✓		
	GC/MS		✓	✓

TABLE 1E: Methods of Analysis
Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
PJE7HB	Immunoassay GC/MS	✓	✓	
PWHKJ9	Immunoassay GC/MS	✓	✓	
QCCGCQ	Immunoassay GC/MS	✓	✓	
QDJTUR	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	
R32ERP	Immunoassay GC/MS	✓	✓	
RWELFQ	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	✓
T3Z2JM	Immunoassay GC/MS	✓	✓	
T7YCEM	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	
TDL2H7	Immunoassay GC/MS LC/MS	✓	✓ ✓	
TQL4EJ	Immunoassay GC/MS	✓ ✓	✓	
TYW7ZK	Immunoassay GC/MS	✓	✓	
U2J6QN	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	
UH7KW6	GC/MS	✓	✓	
UQ2MYG	Immunoassay Orbitrap LC-MS GC/MS	✓ ✓	✓	✓
URBM23	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
V6X2WP	Immunoassay LC/MS/MS	✓	✓	✓
V84FL4	Immunoassay GC/MS	✓	✓	✓
VB4VQK	Immunoassay GC/MS	✓	✓	
VTJ4RL	Immunoassay GC/MS	✓	✓	

TABLE 1E: Methods of Analysis
Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
VXGL72	Immunoassay	✓		
	GC/MS		✓	
W6ADPE	GC/MS	✓	✓	
WMA494	LC/MS/MS	✓	✓	
WWH3FJ	Immunoassay	✓		
	GC/MS	✓	✓	
XLTNXY	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
XXNKDE	Immunoassay	✓		
	GC/MS		✓	
Y3T3PD	Immunoassay	✓		
	GC/MS		✓	
Y4AYGC	Immunoassay	✓		
	GC/MS		✓	✓
Y89BDC	Immunoassay	✓		
	GC/MS		✓	✓
YAFQKH	Immunoassay	✓		
	GC/MS	✓		
	LC/MS	✓	✓	
YZANNX	Immunoassay	✓		
	GC/MS		✓	
Z88ZUE	Immunoassay	✓		
	GC/MS		✓	
ZULFJX	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS	✓		

Response Summary for Item 1		Participants: 109		
	Screening	Confirmatory	Quantitation	
Immunoassay:	97	0	0	
GC/MS:	34	90	10	
LC/MS:	5	2	0	
LC/MS/MS:	22	20	3	
Other:	6	9	1	

Additional Comments for Item 1

TABLE 1F

WebCode	Item 1 Comments
2CDTPA	D3-THC-COOH (internal standard)
2FV7AX	Carboxy-tetrahydrocannabinol-D3 was used as an internal standard for the GC/MS confirmation of carboxy-tetrahydrocannabinol (C-THC). The limit of detection for C-THC is 0.010 mcg/mL and the limit of quantitation for C-THC is 0.020 mcg/mL.
2Y4BQF	n-Propylamphetamine, Alphaprodine, and Hexobarbital internal standards for GC/MS screening. Delta-9 Carboxy THC-D9 internal standard for Delta-9 Carboxy THC GC/MS confirmation; LOD 5 ng/mL.
38ZM9U	Deuterated I.S. was used to confirm the THCA
3EG28T	Confirmatory tests performed by GCMS - however due to ongoing pandemic instrument was not working and not able to be repaired in time to complete tests.
3MAGUC	Cannabinol ISTD for Cannabinoid extraction
3VN33F	Internal standard for LC/MS/MS screen - Mepivacaine; no drugs detected. Internal standard for GC/MS quantification - THCA-d9. THC-COOH quantified but reported qualitatively due to the nature of the specimen. THC-COOH limit of report - 25 ng/mL
3XQZD9	Internal Standard used: flurazepam and aprobarbital.
4XPLMT	THC-COOH = 11-nor-delta-9-tetrahydrocannabinol-9-carboxylic acid
6HQ47U	Internal standard used was Cannabidiol of concentration 50ng/ml
6UJEKT	Internal Standard used for GC/MS testing: THC-COOH-d9. Internal Standard used for LC/MS/MS: Mepivacaine
7236JT	Internal standard: THCA-d9
7ATVX9	HPLC-DAD confirmation: Internal standard: cannabinol, Cut off: 15 ng/ml.
7HK7BP	Sample also had a screening value of 125 ng/mL marijuana/THC (semi-quantitative immunoassay). Cutoff: 50ng/mL. Creatinine: Normal
7MFZ9Q	Cannabinol - Internal Standard for confirmation
7RV8WP	Sample also had a screening value of 104ng/mL marijuana/THC (semi-quantitative immunoassay). Drug class cutoff: 50mg/mL. Creatinine level: Normal
82D9P6	Internal Standard: Estazolam.
8N8BMP	Internal standards: mepivacaine thca-d9
8Y7TFD	Immunoassay Scope= Amphetamine - amphetamine, MDA. Benzodiazepines - alprazolam, alpha-hydroxyalprazolam, clonazepam, diazepam, lorazepam, nordiazepam, oxazepam, temazepam. Cannabinoids - 11-nor-9-carboxy-delta-9-tetrahydrocannabinol. Carisoprodol - carisoprodol, meprobamate. Cocaine - benzoylecgonine. Fentanyl. Methadone. Methamphetamine - methamphetamine, MDMA. Opioids - morphine, codeine, hydrocodone. Oxycodone - oxycodone, oxymorphone. PCP. Zolpidem. Cannabinoid Confirmation IS = 11-nor-9-carboxy-delta-9-tetrahydrocannabinol-d9 Scope (qualitative only - 5ng/mL method capability)= 11-nor-9-carboxy-delta-9-tetrahydrocannabinol
A72U93	Cannabinol is utilized as an internal standard in the GC/MS confirmation of the Tetrahydrocannabinol metabolite

TABLE 1F

WebCode	Item 1 Comments
A8E6LA	ELISA screening only performed, no confirmation. Cannabinoids cutoff: 20 ng/mL
ACR3YN	internal standards used include mepivacaine and THCA-d9
ALBLB8	ISTD: THC-COOH-d9 & mepivacaine. THC-COOH limit of report = 25 ng/mL
ATCTYM	THC-COOH-d9 was the internal standard used for GC/MS confirmation testing. Mepivacaine was the internal standard used for LC/MS/MS testing.
B2NCQL	Cannabinol ISTD for THC confirmation.
B6MML	Cannabinol used as internal standard.
BM3WNL	THC metabolite detected/reported was 11-Nor-Delta 9-Tetrahydrocannabinol-9-Carboxylic acid Cannabinol was used as an internal standard for the THC metabolite confirmation
CE3228	Currently do not have a validated method for urine cannabinoids.
D9G4CK	For the confirmatory test (GC/MS), a cannabinol internal standard solution at a concentration of 10 ug/mL was used.
E3LTD7	LC-QTOF used for confirmatory testing.
EK7KC6	Fentanyl-D5, Imipramine-D5, MDMA-D5, Methaqualone-D7, Triazolam-D4 for LC-QTOF analysis
ENMRZ6	D9-11-carboxy tetrahydrocannabinol used as internal standard
EPXUM4	Internal Standards: Mepivacaine, THCA-d9
FC7KD4	Amphetamine hit presumptive positive but when it went on to confirmation no amphetamine was detected.
GDW2BH	Zolpidem was indicated by immunoassay, but was not confirmed by other test. It should be noted that Zolpidem has had low level cross reactivity with the past 3 CTS Urine proficiency tests.
HCF9QZ	THCA d9 internal standard mepivacaine internal standard for GCMS and LCMSMS screening
HGBZYW	Internal standard: flurazepam. The final extraction is derivatized with BSTFA and injected in GC-MS. Sample preparation: L/L extraction. LOD: 15 ng/mL
HNT9MT	Alere iCassette (THC) test device was used to screen for THC, referred to in 1-4 as rapid chromatographic immunoassay. The cutoff concentration for the assay is 50 ng/mL.
LPW3XA	The Carboxy-Delta-9-THC cut off value of our confirmatory assay is 15,0 ng/mL
MXM82V	Screening LC/MS Internal standard = Mepivacaine Confirmatory GC/MS Internal standard used = THC-COOH d9, Mepivacaine. THC-COOH LOD = 25 ng/mL (qualitative reporting only)
MXZW68	Internal standards used: phenyltoloxamine and Delta-9 Carboxy THC-d3
N6HKJA	D3 THCA used as internal standard. Limit of detection of method is 2 ug/L
NNC6FU	Internal Standard: THC-COOH-d9 Confirmation limit of reporting is 25 ng/mL
PEK73U	No current method for the confirmation of cannabinoids in urine. Confirmation test used was a basic drug confirmation. Confirmatory ISTD: NPA and SKF
PENRXA	Screening Cutoff: Amphetamine: 500 ng/mL, Methamphetamine: 500 ng/mL, Benzoylcgonine: 300 ng/mL, Morphine: 300 ng/mL, Oxazepam: 300 ng/mL, C-THC: 50 ng/mL. Confirmation LOD: C-THC 10 ng/mL; LOQ: C-THC 20 ng/mL; IS: C-THC-D3

TABLE 1F

WebCode	Item 1 Comments
PJE7HB	The quantitation analysis was not performed because of the unavailability of ISTD.
PWHKJ9	Internal standard: THCA-d9
QCCGCQ	Analysis for the presence of Cannabinoids was inconclusive.
QDJTUR	Internal standard - D9-11-carboxy tetrahydrocannabinol
R32ERP	- Urine Cannabinoid screening results cannot be confirmed by current State Crime Laboratory analytical procedures. - Naproxen was identified, but due to carryover, it was not reported.
RWELFQ	The quantitation is used to determine if the concentration of THC-COOH is above a threshold of 25 ng/mL. If it is above, it is reported positive. Internal standards: GC/MS: THC-COOH-d9; mepivacaine; nalorphine LC/MS/MS: mepivacaine
T7YCEM	mepivacaine and thca-d9 used as internal standard
TDL2H7	For THC-COOH analysis: internal standard THC-COOH-d9, LOR 25ng/mL. Other internal standard: mepivacaine
TQL4EJ	The specific metabolite detected was THC acid.
U2J6QN	Internal Standard=THC-COOH-d9. LOD=25 ng/mL
URBM23	Limit of reporting for THC-COOH is 25 ng/mL. The internal standard used for THC-COOH determination is THC-COOH-d9.
V6X2WP	11-nor-9-carboxy-delta-9-tetrahydrocannabinol (COOH-THC): Internal Standard: 11-nor-9-carboxy-delta-9-THC-d9. LOD/LOQ: 10 ng/mL
VB4VQK	The only THC metabolite in urine confirmed by our lab is 9-carboxy-11-nordelta-9-THC.
VXGL72	THC-D3
W6ADPE	Barbital and Flurazepam were IS.
WWH3FJ	N-propylamphetamine, alphaprodine, and hexobarbital internal standards for GC/MS screening. Delta-9 Carboxy THC-D9 internal standard for Delta-9 Carboxy THC confirmation; LOD: 5 ng/mL.
XLTNXY	mepivacaine and THCA-D9 were used in various confirmatory tests as internal standards.
Y3T3PD	Cannabinol Internal standard used for cannabinoids confirmation. Promazine Internal standard used for drug screen
YAFQKH	THC metabolite (LOD=25 ng/mL). Internal Standard: THCA-d9
Z88ZUE	A cannabinol internal standard was used for the cannabinoid confirmation.
ZULFJX	ISTD: mepivacaine and THCA-d9. Limit of report THCA = 25 ng/mL

Screening Results - Item 2

TABLE 2A - Item 2

Item Scenario:

Case 2: A 32 year-old male was subject to a pre-employment drug test. A urine sample was collected for analysis.

Item Contents and Preparation Concentration: No drugs/metabolites added

WebCode	Screening Results
28JWZJ	No drugs detected utilizing screening methods
2CDTPA	No drugs detected utilizing screening methods
2FV7AX	No drugs detected utilizing screening methods
2V8P2X	No drugs detected utilizing screening methods
2VT3PB	No drugs detected utilizing screening methods
2Y4BQF	No drugs detected utilizing screening methods
38ZM9U	No drugs detected utilizing screening methods
3EG28T	No drugs detected utilizing screening methods
3HGC3T	No drugs detected utilizing screening methods
3MAGUC	No drugs detected utilizing screening methods
3VN33F	No drugs detected utilizing screening methods
3WY6PE	No drugs detected utilizing screening methods
3XQZD9	No drugs detected utilizing screening methods
4D24EU	No drugs detected utilizing screening methods
4XPLMT	No drugs detected utilizing screening methods
6BPNH8	No drugs detected utilizing screening methods
6HQ47U	No drugs detected utilizing screening methods
6UJEKT	No drugs detected utilizing screening methods
7236JT	No drugs detected utilizing screening methods
74PNJ6	No drugs detected utilizing screening methods
7ATVX9	No drugs detected utilizing screening methods
7HK7BP	No drugs detected utilizing screening methods
7MFZ9Q	No drugs detected utilizing screening methods
7RV8WP	No drugs detected utilizing screening methods
82D9P6	No drugs detected utilizing screening methods

TABLE 2A: Screening Results (Item 2)

WebCode	Screening Results
8FAMMD	No drugs detected utilizing screening methods
8N8BMP	No drugs detected utilizing screening methods
8QG6KB	No drugs detected utilizing screening methods
8Y7TFD	No drugs detected utilizing screening methods
938CZQ	No drugs detected utilizing screening methods
9FRR3Q	No drugs detected utilizing screening methods
9HG6L9	No drugs detected utilizing screening methods
9WX226	No drugs detected utilizing screening methods
9X93M4	No drugs detected utilizing screening methods
A72U93	No drugs detected utilizing screening methods
A8E6LA	No drugs detected utilizing screening methods
AC843Q	No drugs detected utilizing screening methods
ACR3YN	No drugs detected utilizing screening methods
ALBLB8	No drugs detected utilizing screening methods
ANKJNP	No drugs detected utilizing screening methods
ATCTYM	No drugs detected utilizing screening methods
B2NCQL	No drugs detected utilizing screening methods
B6MMML	No drugs detected utilizing screening methods
BM3WNL	No drugs detected utilizing screening methods
C2GLX9	No drugs detected utilizing screening methods
C92KRM	No drugs detected utilizing screening methods
CE8EMJ	No drugs detected utilizing screening methods
CMKBP4	No drugs detected utilizing screening methods
D9G4CK	No drugs detected utilizing screening methods
DKQ4JX	No drugs detected utilizing screening methods
E3LTD7	No drugs detected utilizing screening methods
EG89G7	No drugs detected utilizing screening methods
EK7KC6	No drugs detected utilizing screening methods

TABLE 2A: Screening Results (Item 2)

WebCode	Screening Results
ENMRZ6	No drugs detected utilizing screening methods
EPXUM4	No drugs detected utilizing screening methods
FC7KD4	Amphetamine
FNJKAW	No drugs detected utilizing screening methods
FNZZ36	No drugs detected utilizing screening methods
FTQBC3	No drugs detected utilizing screening methods
GDW2BH	No drugs detected utilizing screening methods
HCF9QZ	No drugs detected utilizing screening methods
HGBZYW	No drugs detected utilizing screening methods
HNT9MT	No drugs detected utilizing screening methods
JE7PNE	No drugs detected utilizing screening methods
K82ACC	No drugs detected utilizing screening methods
KR7TKT	No drugs detected utilizing screening methods
LPW3XA	No drugs detected utilizing screening methods
LY2ACA	No drugs detected utilizing screening methods
LZWXQY	No drugs detected utilizing screening methods
MDBHNX	No drugs detected utilizing screening methods
MXM82V	Positive for caffeine (not confirmed)
MXZW68	No drugs detected utilizing screening methods
N6HKJA	No drugs detected utilizing screening methods
NNC6FU	No drugs detected utilizing screening methods
NNRPZR	No drugs detected utilizing screening methods
PEK73U	amphetamine
PENRXA	No drugs detected utilizing screening methods
PJE7HB	No drugs detected utilizing screening methods
PWHKJ9	No drugs detected utilizing screening methods
QCCGCGQ	No drugs detected utilizing screening methods
QDJTUR	No drugs detected utilizing screening methods

TABLE 2A: Screening Results (Item 2)

WebCode	Screening Results
RWELFQ	No drugs detected utilizing screening methods
T3Z2JM	No drugs detected utilizing screening methods
T7YCEM	No drugs detected utilizing screening methods
TDL2H7	No drugs detected utilizing screening methods
TQL4EJ	No drugs detected utilizing screening methods
TYW7ZK	No drugs detected utilizing screening methods
U2J6QN	No drugs detected utilizing screening methods
UH7KW6	No drugs detected utilizing screening methods
UQ2MYG	No drugs detected utilizing screening methods
URBM23	No drugs detected utilizing screening methods
V6X2WP	No drugs detected utilizing screening methods
V84FL4	No drugs detected utilizing screening methods
VB4VQK	No drugs detected utilizing screening methods
VTJ4RL	No drugs detected utilizing screening methods
VXGL72	No drugs detected utilizing screening methods
W6ADPE	No drugs detected utilizing screening methods
WMA494	No drugs detected utilizing screening methods
WWH3FJ	No drugs detected utilizing screening methods
XLTNXY	No drugs detected utilizing screening methods
XXNKDE	No drugs detected utilizing screening methods
Y3T3PD	No drugs detected utilizing screening methods
Y4AYGC	No drugs detected utilizing screening methods
Y89BDC	No drugs detected utilizing screening methods
YAFQKH	No drugs detected utilizing screening methods
YZANNX	No drugs detected utilizing screening methods
Z88ZUE	No drugs detected utilizing screening methods
ZULFJX	No drugs detected utilizing screening methods

Screening Response Summary for Item 2		Participants: 108
No drugs/metabolites detected:	105	
Other:	3	
<p>Totals may add up to more than the total number of participants because participants can report multiple drugs/metabolites.</p>		

Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 1?

TABLE 2B - Item 2

Item Scenario:

Case 2: A 32 year-old male was subject to a pre-employment drug test. A urine sample was collected for analysis.

Item Contents and Preparation Concentration: No drugs/metabolites added

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
28JWZJ	No drugs/metabolites detected				
2CDTPA	No drugs/metabolites detected				
2V8P2X	No drugs/metabolites detected				
2VT3PB	No drugs/metabolites detected				
2Y4BQF	No drugs/metabolites detected				
38ZM9U	No drugs/metabolites detected				
3HGC3T	No drugs/metabolites detected				
3MAGUC	No drugs/metabolites detected				
3VN33F	No drugs/metabolites detected				
3WY6PE	No drugs/metabolites detected				
3XQZD9	No drugs/metabolites detected				
4XPLMT	No drugs/metabolites detected				
6BPNH8	No drugs/metabolites detected				
6UJEKT	No drugs/metabolites detected				
7236JT	No drugs/metabolites detected				
74PNJ6	No drugs/metabolites detected				
7ATVX9	No drugs/metabolites detected				
7MFZ9Q	No drugs/metabolites detected				
82D9P6	No drugs/metabolites detected				
8FAMMD	No drugs/metabolites detected				
8N8BMP	No drugs/metabolites detected				
8QG6KB	No drugs/metabolites detected				
8Y7TFD	No drugs/metabolites detected				
938CZQ	No drugs/metabolites detected				
9FRR3Q	No drugs/metabolites detected				

TABLE 2B: Confirmatory Results
Item 2

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
9HG6L9	No drugs/metabolites detected				
9WX226	No drugs/metabolites detected				
9X93M4	No drugs/metabolites detected				
A72U93	No drugs/metabolites detected				
AC843Q	No drugs/metabolites detected				
ACR3YN	No drugs/metabolites detected				
ALBLB8	No drugs/metabolites detected				
ANKJNP	No drugs/metabolites detected				
ATCTYM	No drugs/metabolites detected				
B2NCQL	No drugs/metabolites detected				
B6MMML	No drugs/metabolites detected				
BM3WNL	No drugs/metabolites detected				
C2GLX9	No drugs/metabolites detected				
CE8EMJ	No drugs/metabolites detected				
CMKBP4	No drugs/metabolites detected				
D9G4CK	No drugs/metabolites detected				
DKQ4JX	No drugs/metabolites detected				
E3LTD7	No drugs/metabolites detected				
EG89G7	No drugs/metabolites detected				
EK7KC6	No drugs/metabolites detected				
ENMRZ6	No drugs/metabolites detected				
EPXUM4	No drugs/metabolites detected				
FC7KD4	No drugs/metabolites detected				
FNJKAW	No drugs/metabolites detected				
FNZZ36	No drugs/metabolites detected				
GDW2BH	No drugs/metabolites detected				
HCF9QZ	No drugs/metabolites detected				
HGBZYW	No drugs/metabolites detected				
HNT9MT	No drugs/metabolites detected				

TABLE 2B: Confirmatory Results
Item 2

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
JE7PNE	No drugs/metabolites detected				
K82ACC	No drugs/metabolites detected				
MDBHNX	No drugs/metabolites detected				
MXM82V	No drugs/metabolites detected				
MXZW68	No drugs/metabolites detected				
N6HKJA	No drugs/metabolites detected				
NNC6FU	No drugs/metabolites detected				
PEK73U	No drugs/metabolites detected				
PJE7HB	No drugs/metabolites detected				
PWHKJ9	No drugs/metabolites detected				
QCCGCQ	No drugs/metabolites detected				
QDJTUR	No drugs/metabolites detected				
RWELFQ	No drugs/metabolites detected				
T3Z2JM	No drugs/metabolites detected				
T7YCEM	No drugs/metabolites detected				
TDL2H7	No drugs/metabolites detected				
TYW7ZK	No drugs/metabolites detected				
U2J6QN	No drugs/metabolites detected				
UH7KW6	No drugs/metabolites detected				
UQ2MYG	No drugs/metabolites detected				
URBM23	No drugs/metabolites detected				
V6X2WP	No drugs/metabolites detected				
V84FL4	No drugs/metabolites detected				
VB4VQK	No drugs/metabolites detected				
VTJ4RL	No drugs/metabolites detected				
VXGL72	No drugs/metabolites detected				
W6ADPE	No drugs/metabolites detected				
WMA494	No drugs/metabolites detected				
WWH3FJ	No drugs/metabolites detected				

TABLE 2B: Confirmatory Results
Item 2

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
XLTNXY	No drugs/metabolites detected				
XXNKDE	No drugs/metabolites detected				
Y3T3PD	No drugs/metabolites detected				
YAFQKH	No drugs/metabolites detected				
YZANNX	No drugs/metabolites detected				
Z88ZUE	No drugs/metabolites detected				
ZULFJX	No drugs/metabolites detected				

Confirmatory Response Summary for Item 2		Participants: 90
No drugs/metabolites detected:	90	

Raw Data - Item 2

List of raw data determinations in ng/mL.

TABLE 2C - Item 2

**Item 2 Raw Data - No drugs/metabolites added
Preparation concentration: (ng/mL)**

WebCode	Raw Data (ng/mL)
----------------	-------------------------

No Raw Data results were reported for this item.

Reporting Procedures - Item 2

If quantitative analysis was performed, the reported concentrations are:

TABLE 2D - Item 2

WebCode	Quantitative Reporting Procedures
----------------	--

No Reporting Procedures were reported for this item.

Methods of Analysis - Item 2

TABLE 2E - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
28JWZJ	Immunoassay	✓		
	GC/MS	✓		
2CDTPA	Immunoassay	✓		
	GC/MS		✓	
2FV7AX	Immunoassay	✓		
2V8P2X	Immunoassay	✓		
	GC/MS	✓		
2VT3PB	GC/MS	✓	✓	
2Y4BQF	Immunoassay	✓		
	GC/MS	✓		
38ZM9U	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓		
3MAGUC	Immunoassay	✓		
	GC/MS	✓	✓	
3VN33F	Immunoassay	✓		
	LC/MS/MS	✓	✓	
3WY6PE	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS	✓		
3XQZD9	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
4D24EU	Immunoassay	✓		
	GC/MS	✓		
4XPLMT	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
6BPNH8	Immunoassay	✓		
	GC/MS		✓	
6HQ47U	Immunoassay	✓		
6UJEKT	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
7236JT	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
74PNJ6	Immunoassay	✓		
	GC/MS		✓	
7ATVX9	LC/MS/MS	✓		
7HK7BP	Immunoassay	✓		
7MFZ9Q	Immunoassay	✓		
	GC/MS	✓		
7RV8WP	Immunoassay	✓		

TABLE 2E: Methods of Analysis
Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
82D9P6	LC/MS	✓		
8FAMMD	Immunoassay	✓		
	GC/MS		✓	
	LCQTOF		✓	
8N8BMP	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
8QG6KB	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓		
8Y7TFD	Immunoassay	✓	✓	
938CZQ	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓		
9FRR3Q	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓		
	LC-TOF-MS	✓		
9HG6L9	GC/MS	✓	✓	
9WX226	LC/MS/MS	✓		
	GC/MS		✓	
9X93M4	Immunoassay	✓		
	GC/MS		✓	
A72U93	Immunoassay	✓		
	GC/MS	✓		
A8E6LA	Immunoassay	✓		
AC843Q	Immunoassay	✓		
	GC/MS		✓	
ACR3YN	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
ALBLB8	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS	✓		
ANKJNP	Immunoassay	✓		
	GC/MS	✓		
ATCTYM	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
B2NCQL	Immunoassay	✓		
	GC/MS	✓		
B6MML	Immunoassay	✓		
	GC/MS	✓		

TABLE 2E: Methods of Analysis
Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
BM3WNL	Immunoassay	✓		
	GC/MS	✓		
C2GLX9	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
C92KRM	Immunoassay	✓		
CE8EMJ	Immunoassay	✓		
	GC/MS	✓		
CMKBP4	LC/MS/MS	✓	✓	
	GC/MS		✓	
D9G4CK	Immunoassay	✓		
	GC/MS		✓	
DKQ4JX	LC/MS	✓		
E3LTD7	Immunoassay	✓		
	GC/MS		✓	
EG89G7	Immunoassay	✓		
	LC-qTOF	✓	✓	
	GC/MS	✓	✓	
EK7KC6	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
ENMRZ6	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		
EPXUM4	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS		✓	
FC7KD4	Immunoassay	✓		
	LC/MS/MS		✓	✓
FNJKAW	Immunoassay	✓		
	GC/MS	✓		
FNZZ36	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-QTOF	✓	✓	
FTQBC3	Immunoassay	✓		
GDW2BH	Immunoassay	✓		
	GC/MS		✓	
HCF9QZ	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓		
HGBZYW	Immunoassay	✓		
	GC/MS		✓	
HNT9MT	LC/MS/MS	✓		
	Rapid Chromatographic Immunoassay	✓		

TABLE 2E: Methods of Analysis
Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
JE7PNE	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓		
K82ACC	Immunoassay	✓		
	GC/MS	✓		
KR7TKT	Immunoassay	✓		
LPW3XA	Immunoassay	✓		
	LC/MS/MS	✓		
LY2ACA	Immunoassay	✓		
LZWXQY	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
MDBHNX	Immunoassay	✓		
	GC/MS		✓	
	LC-qTOF		✓	
MXM82V	Immunoassay	✓		
	LC/MS	✓		
	GC/MS		✓	
MXZW68	Immunoassay	✓		
	GC/MS	✓		
N6HKJA	Immunoassay	✓		
	GC/MS	✓		
	LCMS QTOF	✓		
NNC6FU	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
NNRPZR	LC/MS/MS	✓		
PEK73U	Immunoassay	✓		
	GC/MS		✓	
PENRXA	Immunoassay	✓		
PJE7HB	Immunoassay	✓		
	GC/MS	✓		
PWHKJ9	Immunoassay	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
QCCGCQ	Immunoassay	✓		
	GC/MS		✓	
QDJTUR	Immunoassay	✓		
	GC/MS	✓		
RWELFQ	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS	✓		
T3Z2JM	Immunoassay	✓		
	LC/MS/MS	✓		

TABLE 2E: Methods of Analysis
Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
T7YCEM	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
TDL2H7	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
TQL4EJ	Immunoassay	✓		
	GC/MS	✓		
TYW7ZK	Immunoassay	✓		
	GC/MS	✓		
U2J6QN	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
UH7KW6	GC/MS	✓	✓	
UQ2MYG	Immunoassay	✓		
	Orbitrap LC-MS	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
URBM23	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
V6X2WP	Immunoassay	✓		
V84FL4	Immunoassay	✓		
VB4VQK	Immunoassay	✓		
	GC/MS		✓	
VTJ4RL	Immunoassay	✓		
	GC/MS		✓	
VXGL72	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
W6ADPE	GC/MS	✓	✓	
WMA494	LC/MS/MS	✓		
WWH3FJ	Immunoassay	✓		
	GC/MS	✓		
XLTNXY	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
XXNKDE	Immunoassay	✓		
	GC/MS	✓		
Y3T3PD	Immunoassay	✓		
	GC/MS		✓	
Y4AYGC	Immunoassay	✓		
Y89BDC	Immunoassay	✓		

TABLE 2E: Methods of Analysis
Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
YAFQKH	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓		
YZANNX	Immunoassay	✓		
Z88ZUE	Immunoassay	✓		
	GC/MS	✓		
ZULFJX	Immunoassay	✓		
	GC/MS	✓		
	LC/MS	✓		

Response Summary for Item 2			Participants: 106		
	Screening	Confirmatory	Quantitation		
Immunoassay:	93	1	0		
GC/MS:	45	48	0		
LC/MS:	4	0	0		
LC/MS/MS:	26	19	1		
Other:	6	7	0		

Additional Comments for Item 2

TABLE 2F

WebCode	Item 2 Comments
2CDTPA	Hexobarital (internal standard). SKF-525A (internal standard)
2FV7AX	URINE CUTOFF VALUES FOR IMMUNOASSAY: methamphetamine 500 ng/mL, amphetamine 500 ng/mL, morphine 300 ng/mL, benzoylecgonine 300 ng/ mL, oxazepam 300 ng/mL and COOH-THC 50 ng/mL.
2Y4BQF	n-Propylamphetamine, Alphaprodine, and Hexobarbital internal standards for GC/MS screening.
3MAGUC	Analysis performed on 04/15/20
3VN33F	Internal standard for LC/MS/MS screen - Mepivacaine
3XQZD9	Internal Standard used: flurazepam and aprobarbital.
6UJEKT	Internal standard used for GC/MS: Mepivacaine/Nalorphine. Internal standard used for LC/MS/MS: Mepivacaine
7HK7BP	Creatinine: Normal
7RV8WP	Creatinine: Normal
82D9P6	Internal Standard: Estazolam.
8N8BMP	Internal standard: Mepivacaine
8Y7TFD	Scope= Amphetamine - amphetamine, MDA. Benzodiazepines - alprazolam, alpha-hydroxyalprazolam, clonazepam, diazepam, lorazepam, nordiazepam, oxazepam, temazepam. Cannabinoids - 11-nor-9-carboxy-delta-9-tetrahydrocannabinol. Carisoprodol - carisoprodol, meprobamate. Cocaine - benzoylecgonine. Fentanyl. Methadone. Methamphetamine - methamphetamine, MDMA. Opioids - morphine, codeine, hydrocodone. Oxycodone - oxycodone, oxymorphone. PCP. Zolpidem
9WX226	Performed Tier I and Tier II
A8E6LA	ELISA screening only performed, no confirmation.
AC843Q	Item 2 was screened by LC/QTOF
ACR3YN	internal standard used was mepivacaine
ALBLB8	ISTD: mepivacaine
ATCTYM	Mepivacaine was the internal standard used for confirmation testing.
E3LTD7	LC-QTOF used for confirmatory testing.
EK7KC6	Fentanyl-D5, Imipramine-D5, MDMA-D5, Methaqualone-D7, Triazolam-D4 for LC-QTOF analysis
EPXUM4	Internal Standards: mepivacaine
FC7KD4	Amphetamine hit presumptive positive but when it went on to confirmation no amphetamine was detected.
GDW2BH	Zolpidem was indicated by immunoassay, but was not confirmed by other test. It should be noted that Zolpidem has had low level cross reactivity with the past 3 CTS Urine proficiency tests.
HCF9QZ	mepivacaine internal standard for GCMS and LCMSMS screening

TABLE 2F

WebCode	Item 2 Comments
HGBZYW	Internal standard: flurazepam. Sample preparation: L/L extraction. The final extraction is derivatized with BSTFA and injected in GC-MS.
HNT9MT	Alere iCassette (THC) test device was used to screen for THC, referred to in 2-4 as rapid chromatographic immunoassay. The cutoff concentration for the assay is 50 ng/mL.
MXM82V	Screening LC/MS Internal standard = Mepivacaine. Confirmatory GC/MS Internal standard used = Mepivacaine
MXZW68	internal standard used: phenyltoloxamine
NNC6FU	Immunoassay looks for 6 classes of drugs (common opioids, amphetamines, barbiturates, cannabinoids, certain benzodiazepines, cocaine/cocaine metabolites). GC/MS testing on two general extractions to look for a variety of basic drugs. LC/MS/MS testing looked for MRM transitions for a variety of basic drugs
PEK73U	Confirmation test used was a basic drug confirmation. Confirmatory ISTD: NPA and SKF
PENRXA	Screening Cutoff: Amphetamine: 500 ng/mL, Methamphetamine: 500 ng/mL, Benzoylcegonine: 300 ng/mL, Morphine: 300 ng/mL, Oxazepam: 300 ng/mL, C-THC: 50 ng/mL
PWHKJ9	Internal standard: Mepivacaine
RWELFQ	Internal Standards: GC/MS: mepivacaine; nalorphine. LC/MS/MS: mepivacaine
T7YCEM	mepivacaine used as internal standard
TDL2H7	internal standard: mepivacaine
U2J6QN	Internal standard=mepivacaine
URBM23	The internal standard used for the confirmatory testing was mepivacaine.
VXGL72	CODIENE-D3
W6ADPE	Barbital and Flurazepam were IS.
WWH3FJ	N-propylamphetamine, alphaprodine, and hexobarbital internal standards for GC/MS screening.
XLTNXY	mepivacaine was used as an internal standard during confirmatory testing.
Y3T3PD	Promazine internal standard used in drug screen
YAFQKH	Internal Standard: Mepivacaine
Z88ZUE	No drugs detected.
ZULFJX	ISTD: mepivacaine

Screening Results - Item 3

TABLE 3A - Item 3

Item Scenario:

Case 3: A 27-year-old female arrived at the police station early one morning after suspecting she was the victim of a drug-facilitated sexual assault. She was at a party with friends the night before and she woke in an unfamiliar location undressed and disoriented. She states that she had very little to drink at the party and has no memory of most of the previous night. A urine sample was collected for analysis approximately 8 hours after the suspected incident.

Item Contents and Preparation Concentration: 7-amino flunitrazepam (480 ng/mL)
Ketamine (350 ng/mL)
Norketamine (575 ng/mL)

WebCode	Screening Results
28JWZJ	Benzodiazepines
2CDTPA	No drugs detected utilizing screening methods
2FV7AX	No drugs detected utilizing screening methods
2V8P2X	Benzodiazepines
2VT3PB	Ketamine (+/-)-Norketamine, N-trimethylsilyl 7-Aminoflunitrazepam
2Y4BQF	Ketamine, Norketamine
38ZM9U	Benzodiazepines, ketamine
3EG28T	Benzodiazepines detected
3HGC3T	No drugs detected utilizing screening methods
3MAGUC	Ketamine Norketamine 7-aminoflunitrazepam
3VN33F	ketamine 7-aminoflunitrazepam
3WY6PE	benzodiazepines, 7-aminoflunitrazepam, ketamine
3XQZD9	Ketamine, Norketamine (N-desmethylketamine), 7-Aminoflunitrazepam
4D24EU	Benzodiazepines Ketamine Norketamine
4XPLMT	benzodiazepines
6BPNH8	Benzodiazepines Ketamine Norketamine
6HQ47U	Ketamine
6UJEKT	certain benzodiazepines

TABLE 3A: Screening Results (Item 3)

WebCode	Screening Results
7236JT	ketamine, 7-aminoflunitrazepam
74PNJ6	Ketamine Norketamine 7-Aminoflunitrazepam
7ATVX9	ketamine, flunitrazepam, 7-amino-flunitrazepam
7HK7BP	No drugs detected utilizing screening methods
7MFZ9Q	Benzodiazepines Ketamine/Norketamine
7RV8WP	No drugs detected utilizing screening methods
82D9P6	KETAMINE NORKETAMINE 7-AMINOFLUNITRAZEPAM
8FAMMD	No drugs detected utilizing screening methods
8N8BMP	benzodiazepines ketamine
8QG6KB	Certain benzodiazepines
8Y7TFD	benzodiazepines
938CZQ	7- Aminoflunitrazepam Ketamine Norketamine
9FRR3Q	Ketamine, Norketamine, 7-Aminoflunitrazepam
9HG6L9	No drugs detected utilizing screening methods
9WX226	ketamine
9X93M4	Benzodiazepines, ketamine, norketamine
A72U93	Benzodiazepines (+/-)
A8E6LA	No drugs detected utilizing screening methods
AC843Q	Benzodiazepine group
ACR3YN	benzodiazepines --> (7-aminoflunitrazepam) ketamine
ALBLB8	ketamine, benzodiazepines (7-aminoflunitrazepam)
ANKJNP	Benzodiazepines, Ketamine
ATCTYM	Benzodiazepines
B2NCQL	Benzodiazepines, Ketamine, Norketamine

TABLE 3A: Screening Results (Item 3)

WebCode	Screening Results
B6MMML	Ketamine Norketamine 7-aminoflunitrazepam
BM3WNL	Immunoassay screen yielded possible Benzodiazepines (elevated result) GC/MS screen detected Flunitrazepam metabolite, Ketamine and Norketamine
C2GLX9	No drugs detected utilizing screening methods
C92KRM	No drugs detected utilizing screening methods
CE8EMJ	Benzodiazepines, Hallucinogen
CMKBP4	7-aminoflunitrazepam, ketamine
D9G4CK	No drugs detected utilizing screening methods
DKQ4JX	Ketamine Norketamine 7-Aminoflunitrazepam
E3LTD7	No drugs detected utilizing screening methods
EG89G7	No drugs detected utilizing screening methods
EK7KC6	No drugs detected utilizing screening methods
ENMRZ6	Ketamine
EPXUM4	benzodiazepines Ketmaine 7-aminoflunitrazepam
FC7KD4	Benzodiazepines, Amphetamine
FNJKAW	Ketamine Norketamine 7-aminoflunitrazepam
FNZZ36	ketamine, norketamine, 7-aminoflunitrazepam
FTQBC3	No drugs detected utilizing screening methods
GDW2BH	No drugs detected utilizing screening methods
HCF9QZ	certain benzodiazepines
HGBZYW	KETAMINE
HNT9MT	Ketamine, Norketamine, and 7-Aminoflunitrazepam
JE7PNE	certain benzodiazepines
K82ACC	Benzodiazepines (class), Ketamine, Norketamine, 7-Aminoflunitrazepam
KR7TKT	No drugs detected utilizing screening methods

TABLE 3A: Screening Results (Item 3)

WebCode	Screening Results
LPW3XA	ketamine.
LY2ACA	Benzodiazepines
LZWXQY	No drugs detected utilizing screening methods
MDBHNX	No drugs detected utilizing screening methods
MXM82V	Positive for benzodiazepines Positive for ketamine Positive for caffeine (not confirmed)
MXZW68	Benzodiazepines, Ketamine, Norketamine
N6HKJA	Ketamine and metabolite 7-aminoflunitrazepam
NNC6FU	certain benzodiazepines
NNRPZR	7-aminoflunitrazepam, ketamine
PEK73U	Benzodiazepines, Fentanyl, Amphetamine
PENRXA	No drugs detected utilizing screening methods
PJE7HB	Benzodiazepines Ketamine nor-ketamine
PWHKJ9	certain benzodiazepines
QCCGCQ	Benzodiazepines
QDJTUR	Ketamine
R32ERP	Benzodiazepines
RWELFQ	benzodiazepines
T3Z2JM	ketamine norketamine 7-aminoflunitrazepam
T7YCEM	certain benzodiazepines
TDL2H7	benzodiazepines
TQL4EJ	Benzodiazepines, Ketamine, Norketamine
TYW7ZK	Benzodiazepines
U2J6QN	certain benzodiazepines
UH7KW6	[Participant reported that drugs were detected, but did not report the drug class or name]

TABLE 3A: Screening Results (Item 3)

WebCode	Screening Results
UQ2MYG	Norketamine Ketamine 7-aminoflunitrazepam
URBM23	No drugs detected utilizing screening methods
V6X2WP	No drugs detected utilizing screening methods
V84FL4	Benzodiazepines
VB4VQK	No drugs detected utilizing screening methods
VTJ4RL	No drugs detected utilizing screening methods
VXGL72	BENZODIAZEPINES
W6ADPE	Ketamine Norketamine 7-Aminoflunitrazepam
WMA494	7-aminoflunitrazepam, ketamine, and norketamine
WWH3FJ	Ketamine Norketamine
XLTNXY	certain benzodiazepines
XXNKDE	Elevated EMIT screening result for benzodiazepines
Y3T3PD	Benzodiazepines
Y4AYGC	No drugs detected utilizing screening methods
Y89BDC	No drugs detected utilizing screening methods
YAFQKH	Benzodiazepines
YZANNX	benzodiazepines
Z88ZUE	Benzodiazepine plus/minus.
ZULFJX	Benzodiazepines 7-aminoflunitrazepam Ketamine

Screening Response Summary for Item 3**Participants: 109**

7-amino flunitrazepam:	29
Ketamine:	49
Norketamine:	28
No drugs/metabolites detected:	26
Benzodiazepines:	52
Other:	5

Totals may add up to more than the total number of participants
because participants can report multiple drugs/metabolites.

TABLE 3B: Confirmatory Results
Item 3

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
3XQZD9	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine (N-desmethyketamine)	✓			
4D24EU	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
4XPLMT	7-amino flunitrazepam	✓			
	ketamine	✓			
6BPNH8	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
6UJEKT	7-amino flunitrazepam	✓			
	Ketamine	✓			
7236JT	7-amino flunitrazepam	✓			
	ketamine	✓			
74PNJ6	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
7ATVX9	7-amino flunitrazepam		335		ng/ml
	ketamine		180		ng/ml
	Norketamine		370		ng/ml
7MFZ9Q	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
82D9P6	7-amino flunitrazepam	✓			
	KETAMINE	✓			
	Norketamine	✓			
8FAMMD	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
8N8BMP	7-amino flunitrazepam	✓			
	ketamine	✓			

TABLE 3B: Confirmatory Results
Item 3

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
8QG6KB	7-amino flunitrazepam	✓			
	ketamine	✓			
8Y7TFD	No drugs/metabolites detected				
938CZQ	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
9FRR3Q	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
9HG6L9	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
9WX226	ketamine	✓			
9X93M4	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
A72U93	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
AC843Q	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
	Flunitrazepam	✓			
ACR3YN	7-amino flunitrazepam	✓			
	ketamine	✓			
ALBLB8	7-amino flunitrazepam	✓			
	ketamine	✓			
ANKJNP	7-amino flunitrazepam	✓			
	Ketamine	✓			
ATCTYM	7-amino flunitrazepam	✓			
	ketamine	✓			

TABLE 3B: Confirmatory Results
Item 3

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
B2NCQL	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
B6MMML	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
BM3WNL	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
C2GLX9	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine				
C92KRM	Ketamine	✓			
	Norketamine	✓			
CE8EMJ	7-amino flunitrazepam	✓			
	Ketamine	✓			
CMKBP4	7-amino flunitrazepam	✓			
	ketamine	✓			
D9G4CK	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
DKQ4JX	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
E3LTD7	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
EG89G7	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
EK7KC6	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			

TABLE 3B: Confirmatory Results
Item 3

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
ENMRZ6	Ketamine	✓			
EPXUM4	7-amino flunitrazepam	✓			
	ketamine	✓			
FC7KD4	Ketamine		321	81	ng/mL
FNJKAW	7-amino flunitrazepam				
	Ketamine	✓			
	Norketamine	✓			
FNZZ36	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
GDW2BH	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
HCF9QZ	7-amino flunitrazepam	✓			
	ketamine	✓			
HGBZYW	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
HNT9MT	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
JE7PNE	7-amino flunitrazepam	✓			
	ketamine	✓			
K82ACC	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
LPW3XA	7-aminoflunitrazepam	✓			
	ketamine	✓			
	Nor-ketamine	✓			
LY2ACA	7-amino flunitrazepam	✓			
LZWXQY	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			

TABLE 3B: Confirmatory Results
Item 3

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
MDBHNX	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
MXM82V	7-amino flunitrazepam	✓			
	Ketamine	✓			
MXZW68	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
N6HKJA	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Ketamine metabolite	✓			
NNC6FU	7-amino flunitrazepam	✓			
	ketamine	✓			
NNRPZR	7-amino flunitrazepam	✓			
	ketamine	✓			
PEK73U	7-amino flunitrazepam	✓			
	Ketamine	✓			
PJE7HB	7-amino flunitrazepam		208		ng/mL
	ketamine	✓			
	Norketamine	✓			
PWHKJ9	7-amino flunitrazepam	✓			
	ketamine	✓			
QCCGCQ	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
QDJTUR	Ketamine	✓			
R32ERP	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
RWELFQ	7-amino flunitrazepam	✓			
	ketamine	✓			

TABLE 3B: Confirmatory Results
Item 3

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
T3Z2JM	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
T7YCEM	7-amino flunitrazepam	✓			
	ketamine	✓			
TDL2H7	7-amino flunitrazepam	✓			
	ketamine	✓			
TQL4EJ	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
TYW7ZK	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
U2J6QN	7-amino flunitrazepam	✓			
	ketamine	✓			
UH7KW6	ketamine	✓			
UQ2MYG	7-amino flunitrazepam	✓			
	Ketamine		344		ng/ml
	Norketamine		571		ng/ml
URBM23	7-amino flunitrazepam	✓			
	Ketamine	✓			
V6X2WP	No drugs/metabolites detected				
V84FL4	Ketamine		281		ng/mL
	Norketamine		555		ng/mL
	Flunitrazepam		359		ng/mL
VB4VQK	Ketamine	✓			
	Norketamine	✓			
VTJ4RL	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
VXGL72	7-amino flunitrazepam	✓			
	KETAMINE	✓			

TABLE 3B: Confirmatory Results
Item 3

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
W6ADPE	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
WMA494	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
WWH3FJ	Ketamine	✓			
	Norketamine	✓			
XLTNXY	7-amino flunitrazepam	✓			
	ketamine	✓			
XXNKDE	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
Y3T3PD	7-amino flunitrazepam				
	Ketamine				
	Norketamine				
YAFQKH	7-amino flunitrazepam	✓			
	Ketamine	✓			
YZANNX	7-amino flunitrazepam	✓			
	ketamine	✓			
	Norketamine	✓			
Z88ZUE	7-amino flunitrazepam	✓			
	Ketamine	✓			
	Norketamine	✓			
ZULFJX	7-amino flunitrazepam	✓			
	Ketamine	✓			

Confirmatory Response Summary for Item 3**Participants: 98**

7-amino flunitrazepam:	85
Ketamine:	94
Norketamine:	57
No drugs/metabolites detected:	3
Other:	3

Totals may add up to more than the total number of participants
because participants can report multiple drugs/metabolites.

Raw Data - Item 3

List of raw data determinations in ng/mL.

TABLE 3C - Item 3

Item 3 Raw Data - 7-amino flunitrazepam
Preparation concentration: (480 ng/mL)

WebCode	Raw Data (ng/mL)
7ATVX9	335.0
PJE7HB	208.0

Statistical Analysis for Item 3 - 7-amino flunitrazepam

Please note statistical analysis has not been provided due to the low number of raw data responses.

TABLE 3C: Raw Data
Item 3 Raw Data - Ketamine
Preparation concentration: (350 ng/mL)

WebCode	Raw Data (ng/mL)	
FC7KD4	321.0	345.0
UQ2MYG	363.9	325.7
V84FL4	281.0	

Statistical Analysis for Item 3 - Ketamine
Please note statistical analysis has not been provided due to the low number of raw data responses.

TABLE 3C: Raw Data
Item 3 Raw Data - Norketamine
Preparation concentration: (575 ng/mL)

WebCode	Raw Data (ng/mL)	
UQ2MYG	595.2	547.1
V84FL4	555.0	

Statistical Analysis for Item 3 - Norketamine

Please note statistical analysis has not been provided due to the low number of raw data responses.

Reporting Procedures - Item 3

If quantitative analysis was performed, the reported concentrations are:

TABLE 3D - Item 3

WebCode	Quantitative Reporting Procedures
7ATVX9	A single determination.
9FRR3Q	The mean of duplicate/several determinations.
FC7KD4	Lowest of the duplicate sample
LY2ACA	A single determination.
PJE7HB	A single determination.
UQ2MYG	The mean of duplicate/several determinations.
V84FL4	A single determination.

Response Summary for Item 3	Participants: 7
A single determination:	4 (57.1%)
The mean of duplicate/several determinations:	2 (28.6%)
Other:	1 (14.3%)

Methods of Analysis - Item 3

TABLE 3E - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
28JWZJ	Immunoassay GC/MS	✓	✓	
2CDTPA	Immunoassay GC/MS	✓	✓	
2FV7AX	Immunoassay	✓		
2V8P2X	Immunoassay GC/MS	✓ ✓	✓	
2VT3PB	GC/MS	✓	✓	
2Y4BQF	Immunoassay GC/MS	✓ ✓	✓	
38ZM9U	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	
3EG28T	Immunoassay	✓		
3MAGUC	Immunoassay GC/MS	✓ ✓	✓	
3VN33F	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓ ✓	
3WY6PE	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓ ✓	
3XQZD9	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
4D24EU	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
4XPLMT	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	
6BPNH8	Immunoassay GC/MS	✓	✓	
6HQ47U	Immunoassay	✓		
6UJEKT	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
7236JT	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
74PNJ6	Immunoassay GC/MS	✓	✓	
7ATVX9	LC/MS/MS LC/MS GC/MS	✓	✓ ✓	✓ ✓

TABLE 3E: Methods of Analysis
Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
7HK7BP	Immunoassay	✓		
7MFZ9Q	Immunoassay	✓		
	GC/MS	✓	✓	
7RV8WP	Immunoassay	✓		
82D9P6	LC/MS	✓		
	LC/MS/MS		✓	
8FAMMD	Immunoassay	✓		
	GC/MS		✓	
	LCQTOF		✓	
8N8BMP	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
8QG6KB	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
8Y7TFD	Immunoassay	✓		
	GC/MS		✓	
938CZQ	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓	✓	
9FRR3Q	LC/MS/MS		✓	
	LC-TOF-MS	✓		
	Immunoassay	✓		
	GC/MS	✓		
9HG6L9	GC/MS	✓	✓	
9WX226	LC/MS/MS	✓		
	GC/MS		✓	
9X93M4	Immunoassay	✓		
	GC/MS	✓	✓	
A72U93	Immunoassay	✓		
	GC/MS	✓	✓	
A8E6LA	Immunoassay	✓		
AC843Q	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS		✓	
	LC/QTOF		✓	
ACR3YN	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
ALBLB8	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
	Immunoassay	✓		
ANKJNP	Immunoassay	✓		
	GC/MS	✓	✓	

TABLE 3E: Methods of Analysis
Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
ATCTYM	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
B2NCQL	Immunoassay	✓		
	GC/MS	✓	✓	
B6MML	Immunoassay	✓		
	GC/MS	✓	✓	
BM3WNL	Immunoassay	✓		
	GC/MS	✓	✓	
C2GLX9	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
C92KRM	Immunoassay	✓		
	GC/MS		✓	
CE8EMJ	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
CMKBP4	LC/MS/MS	✓	✓	
	GC/MS		✓	
D9G4CK	Immunoassay	✓		
	GC/MS		✓	
DKQ4JX	LC/MS	✓		
	LC/MS/MS		✓	
E3LTD7	Immunoassay	✓		
	GC/MS		✓	
EG89G7	Immunoassay	✓		
	LC-qTOF	✓	✓	
	GC/MS	✓	✓	
EK7KC6	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
ENMRZ6	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		
EPXUM4	Immunoassay	✓		
	LC/MS/MS	✓		
	GC/MS		✓	
FC7KD4	Immunoassay	✓		
	LC/MS/MS		✓	✓
FNJKAW	Immunoassay	✓		
	GC/MS	✓	✓	
FNZZ36	Immunoassay	✓		
	GC/MS	✓	✓	
	LC-QTOF	✓	✓	
FTQBC3	Immunoassay	✓		

TABLE 3E: Methods of Analysis
Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
GDW2BH	Immunoassay GC/MS	✓	✓	
HCF9QZ	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓ ✓	
HGBZYW	Immunoassay GC/MS	✓	✓	
HNT9MT	LC/MS/MS Rapid chromatographic Immunoassay GC/MS	✓ ✓ ✓	✓	
JE7PNE	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
K82ACC	Immunoassay GC/MS	✓ ✓	✓	
KR7TKT	Immunoassay	✓		
LPW3XA	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	
LY2ACA	Immunoassay GC/MS	✓	✓	
LZWXQY	Immunoassay GC/MS LC-QTOF	✓	✓ ✓	
MDBHNX	Immunoassay GC/MS LC-qTOF	✓	✓ ✓	
MXM82V	Immunoassay LC/MS GC/MS	✓ ✓	✓	
MXZW68	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
N6HKJA	Immunoassay GC/MS LCMS QTOF	✓ ✓ ✓		
NNC6FU	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
NNRPZR	LC/MS/MS	✓	✓	
PEK73U	Immunoassay GC/MS	✓	✓	
PENRXA	Immunoassay	✓		

TABLE 3E: Methods of Analysis
Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
PJE7HB	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		
PWHKJ9	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
QCCGCQ	Immunoassay	✓		
	GC/MS	✓	✓	
QDJTUR	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		
R32ERP	Immunoassay	✓		
	GC/MS	✓	✓	
RWELFQ	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS	✓	✓	
T3Z2JM	Immunoassay	✓		
	LC/MS/MS	✓	✓	
T7YCEM	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS	✓	✓	
TDL2H7	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
TQL4EJ	Immunoassay	✓		
	GC/MS	✓	✓	
TYW7ZK	Immunoassay	✓		
	GC/MS	✓	✓	
U2J6QN	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
UH7KW6	GC/MS	✓	✓	
UQ2MYG	Orbitrap-LC/MS	✓		
	LC/MS/MS		✓	✓
	LC/MS	✓		
	Immunoassay	✓		
URBM23	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS			
V6X2WP	Immunoassay	✓		
V84FL4	Immunoassay	✓		
	LC/MS/MS		✓	✓
VB4VQK	Immunoassay	✓		
	GC/MS	✓	✓	

TABLE 3E: Methods of Analysis
Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
VTJ4RL	Immunoassay GC/MS	✓	✓	
VXGL72	Immunoassay GC/MS	✓	✓	
W6ADPE	GC/MS	✓	✓	
WMA494	LC/MS/MS	✓	✓	
WWH3FJ	Immunoassay GC/MS	✓ ✓	✓	
XLTNXY	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	
XXNKDE	Immunoassay GC/MS	✓	✓	
Y3T3PD	Immunoassay GC/MS	✓	✓	
Y4AYGC	Immunoassay	✓		
Y89BDC	Immunoassay	✓		
YAFQKH	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	
YZANNX	Immunoassay LC/MS GC/MS	✓	✓ ✓	
Z88ZUE	Immunoassay GC/MS	✓	✓	
ZULFJX	Immunoassay GC/MS LC/MS	✓ ✓ ✓	✓ ✓	

Response Summary for Item 3			Participants: 108		
	Screening	Confirmatory	Quantitation		
Immunoassay:	95	0	0		
GC/MS:	45	83	1		
LC/MS:	5	3	1		
LC/MS/MS:	26	38	3		
Other:	6	8	0		

Additional Comments for Item 3

TABLE 3F

WebCode	Item 3 Comments
2CDTPA	Hexobarital (internal standard). SKF-525A (internal standard)
2FV7AX	URINE CUTOFF VALUES FOR IMMUNOASSAY: methamphetamine 500 ng/mL, amphetamine 500 ng/mL, morphine 300 ng/mL, benzoylcegonine 300 ng/ mL, oxazepam 300 ng/mL and COOH-THC 50 ng/mL.
2Y4BQF	n-Propylamphetamine, Alphaprodine, and Hexobarbital internal standards for GC/MS screening and confirmation. Ketamine LOD: 10 ng/mL. Norketamine LOD: 10 ng/mL. Lab does not offer DFC testing. 7-Aminoflunitrazepam was identified via library match on two separate GC/MS instruments (separate extractions), but is not contained within current scope and therefore not reported.
38ZM9U	Internal standard used in confirmation analysis was mepivacaine.
3EG28T	Confirmatory tests performed by GCMS - however due to ongoing pandemic instrument was not working and not able to be repaired in time to complete tests.
3MAGUC	GHB-D6 ISTD
3VN33F	Internal standard for LC/MS/MS and GC/MS - Mepivacaine
3XQZD9	Internal Standard used: flurazepam and aprobarbital.
6BPNH8	Ketamine and Norketamine was screened and confirmed by GC/MS
6HQ47U	Screening cutoff value of 100 ng/ml
6UJEKT	Internal standard for GC/MS: Mepivacaine/Nalorphine. Internal standard for LC/MS/MS: Mepivacaine
7236JT	Internal standard: Mepivacaine
7ATVX9	LC/MS confirmation for benzodiazepines: cut off: 20 ng/ml. GC/MS confirmation for ketamine and metabolites: cut off: 100 ng/ml. GC/MS confirmation for ketamine and metabolites: ISTD: dezchloro-N-ethyl-ketamine
7HK7BP	Creatinine: Normal
7RV8WP	Creatinine: Normal
82D9P6	Internal Standard: Estazolam.
8N8BMP	Internal standards: Mepivacaine
8Y7TFD	Immunoassay Scope= Amphetamine - amphetamine, MDA. Benzodiazepines - alprazolam, alpha-hydroxyalprazolam, clonazepam, diazepam, lorazepam, nordiazepam, oxazepam, temazepam. Cannabinoids - 11-nor-9-carboxy-delta-9-tetrahydrocannabinol. Carisoprodol - carisoprodol, meprobamate. Cocaine - benzoylcegonine. Fentanyl. Methadone. Methamphetamine - methamphetamine, MDMA. Opioids - morphine, codeine, hydrocodone. Oxycodone - oxycodone, oxymorphone. PCP. Zolpidem. Benzodiazepine Confirmation IS = Prazepam and Temazepam-d5. TBDMS scope = (qualitative only - 50ng/mL method capability) Alprazolam, alpha-hydroxyalprazolam, Clonazepam, 7-aminoclonazepam, Diazepam, Nordiazepam, Oxazepam, Temazepam, Lorazepam, Midazolam.
A72U93	7-Aminoflunitrazepam was confirmed in a test specific to the benzodiazepine class. Ketamine and norketamine was confirmed by running two separate general drug screens on different columns.
A8E6LA	ELISA screening only performed, no confirmation.

TABLE 3F

WebCode	Item 3 Comments
AC843Q	Flunitrazepam was found in trace amount.
ACR3YN	internal standard used was mepivacaine
ALBLB8	ISTD: mepivacaine no parent drug flunitrazepam detected in sample
ATCTYM	Mepivacaine was the internal standard used for GC/MS and LC/MS/MS confirmation testing.
BM3WNL	GHB-D6 was used as an internal standard for the GHB confirmation
CMKBP4	Item 3: Inconclusive for norketamine, additional confirmatory testing was not pursued because of the presence of other compounds.
E3LTD7	LC-QTOF used for confirmatory testing.
EK7KC6	Fentanyl-D5, Imipramine-D5, MDMA-D5, Methaqualone-D7, Triazolam-D4 for LC-QTOF analysis
EPXUM4	Internal Standards: mepivacaine
FC7KD4	Currently in our Lab we are only able to quantitation Cannabinoids (THC, THC-OH and THC-COOH) as well as a Basic Drugs (Amphetamine, Methamphetamine, Phentermine, MDA, MDMA, Ketamine, Mescaline, LSD and Diphenhydramine) and Basics Qualitatively Only (Ephedrine/Pseudoephedrine and Psilocin). We are unable at the this time to confirm or quantitation the presence of benzodiazepines.
HCF9QZ	mepivacaine internal standard
HGBZYW	Internal standard: flurazepam. Sample preparation: L/L extraction. The final extraction is derivatized with BSTFA and injected in GC-MS. LOD ketamine: 15 ng/mL / LOD norketamine and 7-aminoflunitrazepam: No data
HNT9MT	Alere iCassette (THC) test device was used to screen for THC, referred to in 3-4 as rapid chromatographic immunoassay. The cutoff concentration for the assay is 50 ng/mL.
LPW3XA	7-aminoflunitrazepam cut off value is: 20 ng/mL. Ketamine and nor-ketamine cut off value is: 60 ng/mL
MXM82V	Screening LC/MS Internal standard = Mepivacaine. Confirmatory GC/MS Internal standard used = Mepivacaine
MXZW68	Internal standards used: phenyltoloxamine,d5-Diazepam
NNC6FU	Internal Standard for GC/MS and LC/MS/MS testing: mepivacaine
PEK73U	Confirmatory ISTD: NPA and SKF. Current LC/MS-MS method for the confirmation of fentanyl is not validated for urine. Confirmation test used was a basic drug confirmation by GC/MS.
PENRXA	Screening Cutoff: Amphetamine: 500 ng/mL, Methamphetamine: 500 ng/mL, Benzoyllecgonine: 300 ng/mL, Morphine: 300 ng/mL, Oxazepam: 300 ng/mL, C-THC: 50 ng/mL
PJE7HB	The uncertainty does not applied in the lab at the meantime.
PWHKJ9	Internal standard: Mepivacaine
QCCGCQ	Internal Standard used: Mepivacaine
R32ERP	Naproxen was identified, but due to carryover, it was not reported
RWELFQ	Internal Standards: GC/MS: mepivacaine; nalorphine. LC/MS/MS: mepivacaine

TABLE 3F

WebCode	Item 3 Comments
T7YCEM	mepivacaine used as internal standard
TDL2H7	internal standard: mepivacaine
U2J6QN	Internal standard=mepivacaine
URBM23	The internal standard used for the confirmatory testing was mepivacaine.
VB4VQK	Ketamine is not covered under our immunoassay scope so two separate GCMS extractions were used as a screen and confirm for this case.
VXGL72	CODIENE-D3
W6ADPE	Barbital and Flurazepam were IS.
WWH3FJ	N-propylamphetamine, alphaprodine, and hexobarbital internal standards for GC/MS screening and confirmation. Ketamine LOD: 10 ng/mL, Norketamine LOD: 10 ng/mL. Lab does not offer DFC testing. 7-Aminoflunitrazepam was identified via library match on two separate GC/MS instruments (separate extractions), but is not contained within current scope and therefore not reported.
XLTNXY	mepivacaine was used as the internal standard for the confirmatory testing.
Y3T3PD	Promazine internal standard used in drug screen
YAFQKH	Internal Standard: Mepivacaine
ZULFJX	ISTD: mepivacaine

Additional Test Comments

TABLE 4

WebCode	Additional Comments
2FV7AX	Samples 1 through 3 were originally received 2/10/2020 via UPS. CTS then sent out a second Sample 1 which was received 3/20/2020 via UPS. I have reported the results from Sample 1 received on 3/20/2020 and the results from Samples 2 and 3 received on 2/10/2020.
3EG28T	Tests were unable to be completed during this time frame due to instrument problems, increased backlog and altered work schedules as a result of the global pandemic.
3WY6PE	[From Table 1C- Raw Data, Item 1: "83"]
BM3WNL	Sample testing not started until 5/5/20 due to COVID-19 measures
CMKBP4	sample was received by our Quality Manager on 4/13/20, samples were then shipped to my lab- samples received and available to me for analysis on 4/15/20
DKQ4JX	Analite: LDD (ng/mL) THC-COOH 50; Cocaina 10; Benzoilecgonine 10; Midazolam 10; Morfina 10
EK7KC6	Caffeine present in all three urine samples, but not confirmed.
HCF9QZ	[From Table 1C- Raw Data, Item 1: "93.43"]
N6HKJA	[From Table 3B- Confirmatory Results- Item 3: Participant reported "ketamine and metabolite" which CTS separated into "ketamine" and "ketamine metabolite" as two separate entries/analytes to better reflect the requested format.]
YAFQKH	[From Table 1C- Raw Data, Item 1: "88"]
Z88ZUE	Screening with EMIT was performed on 04/15/2020 for all three items.

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 20-5671: Urine Drug Analysis

DATA MUST BE SUBMITTED BY **June 8, 2020, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234E

WebCode: U22982

Scenario:

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

Case 1: A 23-year-old male was pulled over after failing to stop at a stop sign. The officer noticed that the driver appeared very lethargic and exhibited slow movements. A urine sample was collected for analysis two hours after the incident had occurred.

Case 2: A 32 year-old male was subject to a pre-employment drug test. A urine sample was collected for analysis.

Case 3: A 27-year-old female arrived at the police station early one morning after suspecting she was the victim of a drug-facilitated sexual assault. She was at a party with friends the night before and she woke in an unfamiliar location undressed and disoriented. She states that she had very little to drink at the party and has no memory of most of the previous night. A urine sample was collected for analysis approximately 8 hours after the suspected incident.

-Samples may contain methanol and acetonitrile as artifacts from production.

***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 UDRG):

Item 1: Urine sample from Case 1

Item 2: Urine sample from Case 2

Item 3: Urine sample 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). 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: 50%;" 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"/>

1-3). If quantitative analysis was performed, are the reported concentrations above

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

1-4). 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"/>

1-5). 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). 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: 60%;" 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"/>

2-3). If quantitative analysis was performed, are the reported concentrations above

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

2-4). 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"/>

2-5). **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). 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: 50%;" type="text"/>)
Date(s) Analysis Performed on Analyte: <input style="width: 60%;" 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"/>

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

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

3-4). 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"/>

3-5). **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.

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.

Additional Questions

1: If an immunoassay was performed, please indicate the type of assay used (ELISA, EMIT, etc..) and brand.

2: What are the 5 most common drugs/analytes encountered in your casework? Provide the typical concentration range seen per drug/analyte and limit of detection (LOD) in your lab for each. (e.g. Drug/analyte: ## ng/mL, LOD: ## ng/mL)

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)