



Blood Drug Analysis

Test No. 21-5661 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 116 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 consisted of two grey-topped 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:

The human blood used in this test was from the same lot, which tested negative for a variety of common controlled substances prior to being obtained from a commercial supplier.

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. It was stirred before pipetting the mixture 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.

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 packs were then returned to the refrigerator until shipment.

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 consensus responses.

<u>Item 1 Drug (Concentration)</u>	<u>Item 2 Drug (Concentration)</u>	<u>Item 3 Drug (Concentration)</u>
Fentanyl (60 ng/mL)	Phencyclidine (75 ng/mL)	Oxycodone (180 ng/mL) Noroxycodone (50 ng/mL) Zolpidem (60 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 blood. The sample sets provided to participants contained blood samples from three individual cases with unique scenarios. Each case sample consisted 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).

There were 113 participants who reported screening results for Item 1 with 101 reporting the presence of Fentanyl. Of the 99 participants who reported confirmatory results for Item 1, 95 (96.0%) reported the presence of Fentanyl. Some laboratories who reported quantitative data for Fentanyl mentioned that the drug present was greater than their quantitation calibration curves.

There were 114 participants who reported screening results for Item 2 with 102 reporting the presence of Phencyclidine (PCP). Of the 102 participants who reported confirmatory results for Item 2, 95 (93.1%) reported the presence of Phencyclidine (PCP).

There were 111 participants who reported screening results for Item 3. Most commonly reported was the presence of Zolpidem by 87 participants, Oxycodone/Noroxycodone by 84 participants, and 20 reported the presence of Opioids/Opiates. Of the 101 participants who reported confirmatory results for Item 3, 83 (82.2%) reported the presence of Zolpidem, 92 (91.1%) reported the presence of Oxycodone, and 13 (12.9%) reported the presence of Noroxycodone. Some laboratories who reported quantitative data for Zolpidem mentioned that the drug present was close to or less than their limit of quantitation or calibration.

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

Participants who reported "No drugs/metabolites detected utilizing confirmatory methods" within Table 1/2/3B: Confirmatory Results may have done so due to the laboratory's ability to confirm specific drugs/metabolites. Options for reporting are being reviewed to determine how to make this occurrence more clearly noted on the report.

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. There were four participants determined to have "extreme" data (± 3 STD from grand mean) within the statistical analyses: one participant in Item 2 for Phencyclidine (PCP), one participant in Item 3 for Oxycodone, and two participants in Item 3 for Zolpidem. Statistical analysis was not provided for Noroxycodone in Item 3 due to the low number of raw data responses.

Screening Results - Item 1

TABLE 1A

Item Scenario:

Case 1: A 43 year-old female was found unresponsive by her husband when he returned from work. The husband indicated that his wife had been depressed as she was suffering from chronic pain caused by a car accident. Blood samples were collected at autopsy.

Item Contents and Preparation Concentration: Fentanyl (60 ng/mL)

WebCode	Screening Results
298NAY	No drugs detected utilizing screening methods.
2LFAUC	Fentanyl
2LY3PU	Fentanyl
33EL4D	Fentanyl
37FPVZ	Fentanyl
38RRED	fentanyl
3GGDKC	Fentanyl
3M7V29	Fentanyl
3T9682	Positive for Fentanyl
3VGY6L	Fentanyl
4E7RC2	fentanyl
4H8YTT	Fentanyl
4RWPDZ	fentanyl
4YBFVK	Fentanyl
64H7XQ	Fentanyl
6BZRPA	Fentanyl
6T6Y4C	Fentanyl
6XECMV	No drugs detected utilizing screening methods.
76AJXN	Fentanyl
7BYEJT	Fentanyl
7CA4ZK	Fentanyl
7HZFYM	Fentanyl
7QP26K	Opioids: Fentanyl.
8BT78K	Fentanyl
8C49UJ	Fentanyl.

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
8M4U34	Fentanyl
8X9Q6K	Fentanyl
8YKJ29	Fentanyl
8ZXBUP	fentanyl
9E9B2Z	Fentanyl
9PPZZ6	Fentanyl
9YJ7VR	No drugs detected utilizing screening methods.
A6Y7QU	Fentanyl
AFGP3E	Fentanyl
AKRVLR	Fentanyl
AZRFNN	fentanyl
B7QJQR	Fentanyl
BHGFP6	fentanyl
BPMWGE	Fentanyl
BUXZA2	Fentanyl
C6CHGY	Fentanyl
C8G6U3	Fentanyl
CRMHQW	fentanyl
DDYVWN	Fentanyl
DLR64Y	fentanyl
DVFYFV	No drugs detected utilizing screening methods.
EDG4HX	Fentanyl
EKYJ6F	Fentanyl
F2JM9M	Opioid - Fentanyl
F7A4F8	Fentanyl
FGXQUH	Fentanyl
FKX2QH	Fentanyl
FZPYPR	Fentanyl

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
G2EMLR	No drugs detected utilizing screening methods.
GMWUXL	Fentanyl
GP4YQA	No drugs detected utilizing screening methods.
GRN2FU	Fentanyl Hydroxy Bupropion Citalopram
GXDQUC	Fentanyl
GYAY4G	Fentanyl Citalopram/escitalopram
H6RMHJ	Fentanyl
HMAQ3Q	Acetyl fentanyl, Fentanyl, Norbuprenorphine, Citalopram, Sertaline
JUT9XD	fentanyl
JVX2PQ	Fentanyl Hydroxy Bupropion
KGZ7UB	Fentanyl
KNHKVV	Fentanyl
KRWFDD	No drugs detected utilizing screening methods.
L8P69B	Fentanyl
LFFUPB	Fentanyl
LXJCVA	FENTANYL
M2UYQQ	Fentanyl
M87K2H	fentanyl
MTKCW6	Fentanyl
MUW8FB	Fentanyl Hydroxybupropion (A metabolite of Bupropion)
MYTQLF	Fentanyl
NUQDEG	Fentanyl
NZ33ZB	fentanyl
P4UMJK	FENTANYL, NORFENTANYL
PW9YF3	Fentanyl / Acetyl Fentanyl

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
Q9M7ZA	No drugs detected utilizing screening methods.
QEAYAN	Fentanyl
QHTZB2	Fentanyl
QKDZAH	Fentanyl
QP9RHE	fentanyl
R3CCK6	fentanyl
RAC2TV	Fentanyl Caffeine
RET3JA	No drugs detected utilizing screening methods.
RF2CAL	Fentanyl
RZ48Y4	No analysis carried out
RZAGYF	Fentanyl
T9WUD7	Fentanyl
THZAY6	fentanyl
TTHRRB	fentanyl
UBG99U	Fentanyl, Opiates
V66K9X	fentanyl
VKLHDX	Fentanyl
W2K8R8	fentanyl
W6ZP3W	fentanyl
W7ZKUF	Fentanyl, Hydroxybupropion
WC7ENB	Fentanyl
WM7NBZ	Fentanyl
WQKN9R	Fentanyl
XLKQED	Fentanyl
XQJ434	Fentanyl
XQZZTH	Fentanyl
XRR4EX	Fentanyl
XZ4HWT	fentanyl

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
YCCHBX	fentanyl
YDQRJX	No drugs detected utilizing screening methods.
YGP3FX	No drugs detected utilizing screening methods.
ZCA8W7	Fentanyl
ZCR2QP	Fentanyl
ZGPHAB	Fentanyl
ZZYK2N	Fentanyl

Screening Response Summary for Item 1

Participants: 113

Fentanyl: 101
 Other drugs/metabolites detected: 10
 No drugs/metabolites detected
 utilizing screening methods: 11

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: A 43 year-old female was found unresponsive by her husband when he returned from work. The husband indicated that his wife had been depressed as she was suffering from chronic pain caused by a car accident. Blood samples were collected at autopsy.

Item Contents and Preparation Concentration: Fentanyl (60 ng/mL)

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
2LFAUC	Fentanyl	✓			
2LY3PU	Fentanyl	✓			
37FPVZ	Fentanyl				
38RRED	Fentanyl	✓			
3GGDKC	Fentanyl		50,05	30%	ng/mL
3M7V29	Fentanyl	✓			
3T9682	Fentanyl		37	11	µg/L
3VGY6L	Fentanyl	✓			
4E7RC2	Fentanyl		53.79	10.22	ng/mL
4H8YTT	No drugs/metabolites detected utilizing confirmatory methods.				
4RWPDZ	Fentanyl		38	11	µg/L
4YBFVK	Fentanyl		54	+/-11%	ng/ml
6BZRPA	No drugs/metabolites detected utilizing confirmatory methods.				
6T6Y4C	Fentanyl		> 20	NA	ng/mL
76AJXN	Fentanyl		43		ng/mL
7BYEJT	Fentanyl	✓			
7CA4ZK	Fentanyl	✓			
7HZFYM	Fentanyl	✓			
7QP26K	Fentanyl	✓			
8BT78K	Fentanyl	✓			
8C49UJ	Fentanyl	✓			

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
8M4U34	Fentanyl		57	4	ng/mL
8X9Q6K	Fentanyl	✓			
8YKJ29	Fentanyl	✓			
8ZXBUP	Fentanyl		46	14	µg.L
9E9B2Z	Fentanyl		44	7	ng/ml
9PPZZ6	Fentanyl		46.71	6.53	ng/mL
A6Y7QU	Fentanyl		57	17	mcg/L
AFGP3E	Fentanyl	✓			
AKRVLR	Fentanyl				
AZRFNN	Fentanyl		38	11	mcg/L
B7QJQR	Fentanyl				
BHGFP6	Fentanyl	✓			
BPMWGE	Fentanyl	✓			
BUXZA2	Fentanyl	✓			
C6CHGY	Fentanyl		44	9	ng/mL
C8G6U3	Fentanyl	✓			
CRMHQW	Fentanyl		51.70	9.82	ng/ml
DLR64Y	Fentanyl	✓			
DVYFV	Fentanyl	✓			
	Citalopram	✓			
EDG4HX	Fentanyl	✓			
EKYJ6F	Fentanyl		65	8	ng/mL
F2JM9M	Fentanyl				
F7A4F8	Fentanyl	✓			
FGXQUH	Fentanyl		47	14	ng/mL
FKX2QH	Fentanyl		55	17	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
FZPYPR	Fentanyl		47	±8	ng/mL
G2EMLR	Fentanyl	✓			
GMWUXL	Fentanyl				
GP4YQA	Fentanyl	✓			
GRN2FU	Fentanyl	✓			
GXDQUC	Fentanyl		65	8	ng/mL
GYAY4G	Fentanyl		>40		ng/mL
H6RMHJ	Fentanyl		51		ng/mL
HMAQ3Q	Fentanyl		53.96	10.25	ng/mL
JVX2PQ	Fentanyl	✓			
KGZ7UB	Fentanyl		61	21	ng/mL
KNHKWV	Fentanyl	✓			
L8P69B	Fentanyl		66	6	ng/mL
LFFUPB	Fentanyl		30		ng/mL
LXJCVA	Fentanyl	✓			
M2UYQQ	Fentanyl		50	14%	ng/mL
M87K2H	Fentanyl		39	12	µg/L
MTKCW6	Fentanyl	✓			
MUW8FB	Fentanyl	✓			
	Hydroxybupropion (a metabolite of Bupropion)	✓			
MYTQLF	Fentanyl				
NUQDEG	Fentanyl		51.65	+/- 9.81	ng/mL
NZ33ZB	Fentanyl		46		ng/mL
P4UMJK	Fentanyl		43.94	13.19	NG/ML
PR33V3	Fentanyl	✓			
QEAYAN	Fentanyl	✓			

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
QHTZB2	Fentanyl	✓			
QKDZAH	Fentanyl		42	6	ng/mL
QP9RHE	Fentanyl		47	14	ng/mL
R3CCK6	Fentanyl		49	15	mcg/L
RAC2TV	Fentanyl	✓			
	Caffeine				
RZAGYF	Fentanyl		47	8	ng/mL
T9WUD7	Fentanyl		0.0461	0.0043	mg/L
THZAY6	Fentanyl		42	13	mcg/L
TTHRRB	Fentanyl		47	14	mcg/L
UBG99U	Fentanyl	✓			
V66K9X	Fentanyl		46	14	ng/mL
VKLHDX	Fentanyl		54	11	ng/mL
W2K8R8	Fentanyl		37	11	mcg/L
W6ZP3W	Fentanyl	✓			
W7ZKUF	Fentanyl	✓			
WC7ENB	Fentanyl		57	4	ng/mL
WM7NBZ	Fentanyl	✓			
WQKN9R	Fentanyl	✓			
XLKQED	Fentanyl		52		ng/mL
XQJ434	Fentanyl				
XQZZTH	No drugs/metabolites detected utilizing confirmatory methods.				
XRR4EX	Fentanyl		Greater than 25ng/ml		
XZ4HWT	Fentanyl		42,0	15,0%	ng/mL
	Norfentanyl		0,23	18,0	ng/mL
YCCHBX	Fentanyl		44	15%	ug/L

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
YGP3FX	No drugs/metabolites detected utilizing confirmatory methods.				
ZCR2QP	Fentanyl	✓			
ZGPHAB	Fentanyl				
ZZYK2N	Fentanyl	✓			

Confirmatory Response Summary for Item 1		Participants: 99
Fentanyl:	95 (96.0%)	
Other drugs/metabolites detected:	4 (4.0%)	
No drugs/metabolites detected utilizing confirmatory methods:	4 (4.0%)	

Raw Data - Item 1

TABLE 1C

**Item 1 Raw Data - Fentanyl
Preparation concentration: 60 ng/mL**

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
37FPVZ	50.890		50.890
3GGDKC	50.050		50.050
3T9682	36.536		36.540
4E7RC2	53.790		53.790
4RWPDZ	38.312		38.310
4YBFVK	53.808		53.810
6T6Y4C			
76AJXN	42.640	42.540	42.590
8M4U34	56.050	57.500	56.780
8ZXBUP	46.216		46.220
9E9B2Z	43.650		43.650
9PPZZ6	46.710		46.710
A6Y7QU	56.760		56.760
AKRVLR	48.450		48.450
AZRFNN	37.420	38.940	38.180
B7QJQR	47.640		47.640
C6CHGY	44.000		44.000
CRMHQW	51.810	51.700	51.760
EKYJ6F	65.000		65.000
F2JM9M	49.960		49.960
FGXQUH	47.422		47.420
FKX2QH	54.860		54.860
FZPYPR	47.041		47.040
GMWUXL	48.360		48.360

TABLE 1C: Raw Data - Item 1

Item 1 Raw Data - Fentanyl
Preparation concentration: 60 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
GXDQUC	65.000		65.000
GYAY4G			
H6RMHJ	51.300		51.300
HMAQ3Q	53.960		53.960
KGZ7UB	61.945		61.950
L8P69B	64.190	67.210	65.700
LFFUPB	32.000	33.000	32.500
M2UYQQ	49.610		49.610
M87K2H	38.576		38.580
MYTQLF	44.080		44.080
NUQDEG	51.655		51.650
NZ33ZB	46.000		46.000
P4UMJK	43.940		43.940
QKDZAH	41.730		41.730
QP9RHE	47.000	47.000	47.000
R3CCK6	49.304		49.300
RZAGYF	47.750		47.750
T9WUD7	48.060	44.090	46.080
THZAY6	36.599	48.120	42.360
TTHRRB	44.452	49.500	46.980
V66K9X	46.350		46.350
VKLHDX	54.000		54.000
W2K8R8	36.810		36.810
WC7ENB	58.000	57.000	57.500
XLKQED	52.000		52.000

TABLE 1C: Raw Data - Item 1

Item 1 Raw Data - Fentanyl
Preparation concentration: 60 ng/mL

WebCode	List of Raw Data determinations (ng/mL)	Participant Mean
XQJ434	43.650	43.650
XRR4EX		
XZ4HWT	42.000	42.000
YCCHBX	43.000 44.000	43.500
ZGPHAB	46.300	46.300

Statistical Analysis for Item 1 - Fentanyl			
Grand Mean	48.359	Number of Participants Included	51
Standard Deviation	7.2448	Number of Participants Excluded	0
			Number of Participants without Raw Data or Data that was not reported in ng/mL 3

Reporting Procedures - Item 1

TABLE 1D - Item 1

Quantitative Reporting Procedures	
WebCode	<i>If quantitative analysis was performed, the reported concentrations are:</i>
37FPVZ	A single determination.
3GGDKC	A single determination.
3T9682	A single determination.
4E7RC2	A single determination.
4RWPDZ	A single determination.
4YBFVK	A single determination.
6T6Y4C	A single determination.
76AJXN	Lowest value from least diluted sample.
7QP26K	A single determination.
8M4U34	The mean of duplicate/several determinations.
8X9Q6K	A single determination.
8ZXBUP	A single determination.
9E9B2Z	A single determination.
9PPZZ6	A single determination.
A6Y7QU	A single determination.
AKRVLR	A single determination.
AZRFNN	The mean of duplicate/several determinations.
B7QJQR	A single determination.
C6CHGY	A single determination.
CRMHQW	Lowest of two values; screening was performed on a quantitative method
EKYJ6F	A single determination.
F2JM9M	A single determination.
FGXQUH	A single determination.
FKX2QH	A single determination.
FZPYPR	A single determination.
GMWUXL	A single determination.
GXDQUC	A single determination.
GYAY4G	A single determination.
H6RMHJ	ULOQ
HMAQ3Q	A single determination.
KGZ7UB	A single determination.

TABLE 1D: Reporting Procedures - Item 1

Quantitative Reporting Procedures	
WebCode	<i>If quantitative analysis was performed, the reported concentrations are:</i>
L8P69B	The mean of duplicate/several determinations.
LFFUPB	The mean of duplicate/several determinations.
M2UYQQ	A single determination.
M87K2H	A single determination.
MYTQLF	A single determination.
NUQDEG	A single determination.
NZ33ZB	A single determination.
P4UMJK	A single determination.
QKDZAH	A single determination.
QP9RHE	The mean of duplicate/several determinations.
R3CCK6	A single determination.
RZAGYF	A single determination.
T9WUD7	The mean of duplicate/several determinations.
THZAY6	The mean of duplicate/several determinations.
TTHRRB	A single determination.
V66K9X	A single determination.
VKLHDX	A single determination.
W2K8R8	A single determination.
WC7ENB	The mean of duplicate/several determinations.
XLKQED	A single determination.
XQJ434	A single determination.
XRR4EX	A single determination.
XZ4HWT	A single determination.
YCCHBX	The mean of duplicate/several determinations.

Response Summary for Item 1		Participants: 55
A single determination:	43 (78.2%)	
The mean of duplicate/several determinations:	9 (16.4%)	
Other:	3 (5.5%)	

Methods of Analysis - Item 1

TABLE 1E - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
298NAY	Immunoassay	✓		
2LFAUC	LC/MS/MS	✓	✓	
2LY3PU	LC/MS/MS	✓	✓	
33EL4D	Immunoassay	✓		
37FPVZ	LC/MS/MS GC/MS	✓	✓	✓
38RRED	Immunoassay GC/MS	✓	✓	
3GGDKC	LC/MS/MS	✓	✓	✓
3M7V29	Immunoassay LC/MS/MS	✓	✓	
3T9682	HRAMS LC/MS/MS	✓	✓	
3VGY6L	Immunoassay GC/MS	✓ ✓	✓	
4E7RC2	LC/MS/MS	✓	✓	✓
4H8YTT	Immunoassay	✓		
4RWPDZ	LC-HRMS/MS GC/MS LC/MS/MS	✓	✓	✓
4YBFVK	LC/MS/MS GC/MS ELISA	✓	✓ ✓	✓
64H7XQ	Immunoassay	✓		
6BZRPA	Immunoassay	✓		
6T6Y4C	Immunoassay LC/MS/MS	✓	✓	✓
6XECMV	Immunoassay	✓		
76AJXN	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓
7BYEJT	Immunoassay LC/MS/MS	✓	✓	
7CA4ZK	GC/MS		✓	
7HZFYM	GC/MS LC-QTOF	✓	✓	
7QP26K	LC/MS/MS GC/MS	✓	✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
8BT78K	Immunoassay	✓		
	GC/MS	✓	✓	
8C49UJ	LC/MS	✓		
	LC/MS/MS		✓	
8M4U34	Immunoassay	✓		
	LC/MS/MS		✓	✓
	LC-QTOF	✓	✓	
8X9Q6K	GC/MS		✓	
8YKJ29	Immunoassay	✓		
	GC/MS		✓	
8ZXBUP	LC/MS		✓	
	LC-HRMS-MS	✓		
9E9B2Z	Immunoassay	✓		
	LC/MS/MS		✓	✓
9PPZZ6	LC/MS/MS	✓	✓	✓
9YJ7VR	Immunoassay	✓		
A6Y7QU	LC/MS/MS		✓	✓
	HRAMS	✓		
AFGP3E	GC/MS	✓		
	LC/MS/MS	✓	✓	
AKRVLR	LC/MS/MS	✓		
	GC/MS		✓	✓
AZRFNN	LCHRAMS	✓	✓	
	LC/MS/MS			✓
B7QJQR	LC/MS/MS	✓		
	GC/MS		✓	
BHGFP6	Immunoassay	✓		
	GC/MS		✓	
BPMWGE	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓	✓	
BUXZA2	Immunoassay	✓		
	GC/MS	✓	✓	
C6CHGY	Immunoassay	✓		
	LC/MS/MS		✓	✓
C8G6U3	Immunoassay	✓		
	GC/MS		✓	
CRMHQW	LC/MS/MS	✓	✓	
DDYWWN	LC/MS/MS	✓		
	Immunoassay	✓		
DLR64Y	Immunoassay	✓		
	GC/MS	✓	✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
DVFYFV	GC/MS		✓	
EDG4HX	Immunoassay	✓		
	GC/MS		✓	
EKYJ6F	LC/MS/MS	✓	✓	✓
	GC/MS	✓		
F2JM9M	LC/MS/MS	✓		
	GC/MS		✓	✓
F7A4F8	Immunoassay	✓		
	GC/MS		✓	
FGXQUH	LC-HRMS/MS	✓		
	LC/MS		✓	✓
FKX2QH	LC-HRMS/MS	✓		
	LC/MS/MS		✓	✓
FZPYPR	Immunoassay	✓		
	LC/MS/MS		✓	✓
G2EMLR	LC-QTOF-MS	✓		
	GC/MS		✓	
GMWUXL	LC/MS/MS	✓		
	GC/MS		✓	✓
GP4YQA	GC/MS		✓	
GRN2FU	Immunoassay	✓		
	Quadrupole Time of Flight	✓		
	GC/MS		✓	
GXDQUC	LC/MS/MS	✓	✓	✓
	GC/MS	✓		
GYAY4G	LC-QTOF-MS	✓		
	LC/MS/MS		✓	✓
H6RMHJ	LC/MS/MS	✓		
	GC/MS		✓	✓
HMAQ3Q	LC/MS/MS	✓	✓	
JUT9XD	Immunoassay	✓		
JVX2PQ	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
KGZ7UB	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓	✓	✓
KNHKVV	Immunoassay	✓		
	GC/MS		✓	
KRWFDD	Immunoassay	✓		
	GC/MS	✓		

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
L8P69B	Immunoassay GC/MS LC/MS/MS	✓	✓	✓
LFFUPB	UPLC-QTOF MS LC/MS/MS	✓		✓
LXJCVA	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
M2UYQQ	Immunoassay GC/MS GC/NPD &/or MS	✓ ✓ ✓	✓	✓
M87K2H	LC/MS/MS LC-HRAMS	✓	✓	✓
MTK CW6	Immunoassay GC/MS	✓ ✓	✓	
MUW8FB	LC-QTOF	✓	✓	
MYTQLF	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	
NUQDEG	LC/MS/MS	✓	✓	✓
NZ33ZB	LC/MS/MS	✓	✓	✓
P4UMJK	LC/MS/MS	✓	✓	✓
PR33V3	GC/MS		✓	
PW9YF3	Immunoassay	✓		
Q9M7ZA	Immunoassay	✓		
QEAYAN	Immunoassay GC/MS	✓	✓	
QHTZB2	GC/MS		✓	
QKDZAH	Immunoassay LC/MS/MS	✓	✓	✓
QP9RHE	Immunoassay LC/MS/MS	✓	✓	✓
R3CCK6	High resolution accurate mass LC/MS/MS	✓	✓	✓
RAC2TV	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	
RET3JA	Immunoassay	✓		
RF2CAL	Immunoassay	✓		
RZAGYF	Immunoassay LC/MS/MS	✓	✓	✓

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
T9WUD7	LC/MS/MS		✓	✓
THZAY6	LC/MS/MS HRAMS	✓	✓	✓
TTHRRB	Immunoassay LC/MS/MS	✓ ✓	✓	✓
UBG99U	Immunoassay GC/MS	✓ ✓	✓	
V66K9X	LC-TOF-MS LC/MS/MS	✓	✓	✓
VKLHDX	LC/MS/MS	✓	✓	✓
W2K8R8	Immunoassay LC/MS/MS	✓ ✓	✓	
W6ZP3W	LC/MS/MS	✓	✓	
W7ZKUF	Immunoassay LC-QTOF-MS GC/MS	✓ ✓	✓	
WC7ENB	Immunoassay QTOF LC/MS/MS	✓ ✓	✓ ✓	✓
WM7NBZ	Immunoassay LC/Q-TOF MS	✓	✓	
WQKN9R	Immunoassay GC/MS LC/MS/MS LC/QTOF-MS	✓ ✓ ✓	✓	
XLKQED	Immunoassay GC/MS LC/MS/MS	✓	✓	✓
XQJ434	LC/MS/MS GC/MS	✓	✓	✓
XQZZTH	Immunoassay	✓		
XRR4EX	LC/MS/MS	✓	✓	✓
XZ4HWT	LC/MS/MS LC-HRMS	✓	✓	✓
YCCHBX	LC/MS/MS LC-QTOF-MS	✓	✓	✓
YDQRJX	Immunoassay	✓		
YGP3FX	GC/MS		✓	
ZCA8W7	Immunoassay	✓		
ZCR2QP	LC/QTOF-MS LC/MS/MS Immunoassay	✓ ✓ ✓	✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
ZGPHAB	LC/MS/MS	✓		
	GC/MS		✓	
ZZYK2N	Immunoassay	✓		
	GC/MS	✓	✓	

Response Summary for Item 1		Participants: 113		
		Screening	Confirmatory	Quantitation
Immunoassay:		60	0	0
GC/MS:		15	45	7
LC/MS:		1	2	1
LC/MS/MS:		32	48	38
Other:		26	6	0

Additional Comments for Item 1

TABLE 1F

WebCode	Item Comments
298NAY	The ELISA immunoassay was used to screen for six classes of drugs: amphetamines, benzodiazepines, cannabinoids, cocaine, opiates and PCP.
2LY3PU	Cut-off for fentanyl is 5 ng/mL.
33EL4D	The State Crime Laboratory is only able to confirm and quantitation THC and its metabolites and certain basic drugs (amphetamine, diphenhydramine, ketamine, LSD, MDMA, MDA, Mescaline, Methamphetamine, Phentermine, Ephedrine/Pseudoephedrine, Psilocyn).
37FPVZ	Fentanyl value falls above our ULOQ of 40ng/mL for this compound, thus 50.89ng/mL is an extrapolation of the calibration curve and shall be reported as presence only per our protocols.
38RRED	Confirmatory ISTD: NPA and SKF
3M7V29	Fentanyl-d5 and Acetyl Fentanyl-13C6 as Internal Standards. Fentanyl 0.5ng/mL method capability. Acetyl Fentanyl 0.5ng/mL method capability.
3T9682	Mepivacaine used as internal standard for both types of testing
3VGY6L	Promazine used as internal standard for GC/MS screen/confirmation.
4H8YTT	Fentanyl Immunoassay LOD: 2ng/mL
4RWPDZ	LOR: 0.5µg/L. IS: mepivacaine, mephobarbital.
4YBFVK	5/25/2021 analysis was GC/MS, qualitative only. 5/19/2021 analysis was LC/MS/MS, quantitative value obtained.
64H7XQ	Fentanyl screening cut off is 1 ng/mL
6T6Y4C	This method is for ante-mortem testing, the upper limit of quantitation is 20 ng/mL
6XECMV	ELISA was used to screen the sample. The sample was screened using Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids and Methamphetamine.
76AJXN	There was an additional value which was outside of our ULOQ of 30 ng/mL. The above entry field did not allow for >30 ng/mL. The extraction was repeated with a dilution.
8BT78K	Promazine used as Internal Standard Nalorphine used as Internal Standard
8C49UJ	Estazolam was used as an internal standard.
8M4U34	Also detected Acetaminophen, atenolol, citalopram, desmethylcitalopram, hydroxybupropion, and propranolol by LC-QTOF. These were not confirmed or quantitated. LOQ for fentanyl 1ng/mL, IS used was Fentanyl-D5. Quantitation method used an SPE extraction method.
9E9B2Z	Immunoassay cutoff concentrations (ng/ml). Methamphetamine 20 Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Zolpidem 10 Tramadol 5 TCA 25 Phencyclidine 5 Opioids 10 Opiates 10 Methadone 10 Meprobamate 100. Opiates, Opioids and Stimulants confirmation panel analysis ranges (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 6-Acetylmorphine 1.0 - 50 Benzoyllecgonine 20 – 2000 Cocaine 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 EDDP 20 – 2000 Methadone 20 – 2000 Oxymorphone 5.0 – 500. THC and Metabolites confirmation panel analysis ranges (ng/ml). Delta-9-THC 0.5 – 50 11-hydroxy-Delta-9-THC 0.5 – 50 11-nor-9-carboxy-Delta-9-THC 5.0 - 500. Measurement uncertainty is reported at a 95.45 level of confidence for all quantitative blood drug analyses.

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
9YJ7VR	ELISA was used to screen the sample. The sample was screened using Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids, and Methamphetamine. -[Initials] 06/10/2021
A6Y7QU	Internal Std: mepivacaine
AKRVLR	Drug level was above the established calibration range of 2-40 ng/mL and reported as presence only with the statement 'Drug level is above the established calibration range.' on the report.
AZRFNN	trace amounts of lidocaine, propranolol and citalopram were present in all specimens, which had to be confirmed as trace amounts. internal standard: mepivacaine
B7QJQR	Fentanyl would be reported as presence only with statement "Drug level is above the established calibration range." Calibration range for Fentanyl is 2ng/mL to 40ng/mL.
C6CHGY	Fentanyl: Internal Standard: Fentanyl-d5. LOD/LOQ: 0.4ng/mL. Calibration Curve: 0.4 to 40ng/mL.
CRMHQW	Fentanyl-d5; Linear range 0.5-100 ng/ml
F2JM9M	The amount of Fentanyl was above the established calibration range of 2-40ng/mL. The internal standard used was Fentanyl-D5.
FGXQUH	Mepivacaine used as internal standard
FKX2QH	Mepivacaine was used as the internal standard
FZPYPR	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Laboratory does not routinely analyze postmortem samples (outside scope of testing). Opiate confirmation panel includes 6-monoacetylmorphine, codeine, fentanyl, hydrocodone, hydromorphone, methadone, morphine, oxycodone, and oxymorphone. LOD for fentanyl is 0.5 ng/ml, and LOQ is 1 ng/mL. Fentanyl-D5 is used as the internal standard.
GMWUXL	Fentanyl was reported as presence only because the qualitative value was above the reporting range. internal standard used was Fentanyl-D5
GRN2FU	Internal standards used: Mepivacaine, Methohexital; Hydroxy Bupropion not reported in confirmatory- did not meet acceptance criteria; Citalopram did not meet acceptance criteria in screening was not reported; Acid extraction performed due to inconsistent results with Immonassay screen for Barbiturates, no Barbiturates were detected in confirmatory testing.
GYAY4G	Fentanyl result was greater than the ULOQ of the LS-MS/MS method (>40 ng/mL). Citalopram/escitalopram not detected on quantitation/confirmation by LC-MS/MS (LOD = 25 ng/mL). Possible low level atenolol on screening (RT shift) but not detected on confirmation by LC-MS/MS (LOD = 0.125 mg/L).
H6RMHJ	Fentanyl greater than the upper limit of quantitation.
HMAQ3Q	Fentanyl LOQ 0.5ng/mL; ISTD: Fentanyl-D5
JUT9XD	target fentanyl at 2 ng/ml
JVX2PQ	Internal Standard: Mepivacaine
KGZ7UB	ISTD= Fentanyl-D5. LOQ= 1 ng/mL.
KRWFDD	Immunoassay only screens for the following drugs/drug classes: Amphetamines, Benzodiazepines, Cocaine, Phencyclidine, Opiates, and Marijuana. A GC/MS scan (underivatized and derivatized) was used as an additional screening method for sample 1. Prazepam (100 ng/ul) was used as an internal standard. A small peak at retention time of 7.3 had an ion of interest. Standards were not available for comparison.

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
LFFUPB	Screening: UPLC-QTOF MS (Waters). For UPLC-QTOF MS (Waters): Salting-out assisted extraction. Internal Standards: Cyclobarbitone, Prazepam & D3-Methadone. Quantitative Analysis: Instrument: UPLC-TQD (Waters). Internal Standard: D3-Codeine. LOD for Fentanyl: 1 ng/mL.
LXJCVA	codiene-D3 is uses as internal standard
M2UYQQ	GC/NPD &/or MS used only to screen for basic drugs. GC/MS screening only used for neutral/acidic drugs. Fentanyl screened using Immunoassay and Confirmed/Quantitated using GC/MS with D5-Fentanyl as the internal standard and an LOD of 1.0 ng/mL.
M87K2H	Case was screened using LC/High Resolution Accurate Mass Spectrometry (LC-HRAMS). One quantitative result was outside the linear calibration range.
MTKCW6	Promazine ISTD for Screen Extraction
MYTQLF	ULOQ is 40ng/mL so drug in this case would be reported as Presence Only.
PR33V3	Internal standard: flurazepam. The final extraction is derivatized with BSTFA and injected in GC-MS. Sample preparation: L/L extraction. LOD: 150 ng/mL.
PW9YF3	Screening only/no confirmation testing performed.
Q9M7ZA	1) This specimen screened negative for the following assays: benzodiazepines, cannabinoids, cocaine/metabolites, amphetamines, opiates, and phencyclidine. 2) No confirmation was attempted due to the negative screen.
QEAYAN	Confirmatory ISTD: NPA and SKF
QKDZAH	Analysis by immunoassay screening in whole blood for: Analyte (Cutoff). Meth /Amphetamines (20) Barbiturates (50) Benzodiazepines (10) Buprenorphine (1) Cannabinoids (10) Benzoylcegonine (50) Dextromethorphan (5) Fentanyl (1) Meprobamate (100) Methadone (10) Opiates (10) Opioids (10) Phencyclidine (5) TCA (25) Tramadol (5) Zolpidem (10). 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 Benzoylcegonine 20 – 2000
QP9RHE	our laboratory reports quantitative blood drug values however the law in our jurisdiction only requires "any amount" to be present
R3CCK6	Mepivacaine was the internal standard used in analyses. lidocaine, propranolol, citalopram were detected in very small amounts. They had poor mass spectrums and therefore were not reported. Because fentanyl would have quanted higher than the highest calibrator of 40 mcg/L, only one fourth of the specimen was sampled yielding result of 12.326 ng/mL. The calculation adjusted gives the reported quantitation.
RET3JA	ELISA was used to screen the sample. The sample was screened using Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids and Methamphetamine. -[Initials] 05/18/2021
RF2CAL	Screening cutoff limit. Randox Multistat 1 ng/mL. No confirmatory testing was performed. Only screening.

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
RZAGYF	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine, and zolpidem. Opiate confirmation panel includes 6-monoacetylmorphine, codeine, fentanyl, hydrocodone, hydromorphone, methadone, morphine, oxycodone, and oxymorphone. The following internal standards are used: 6-monoacetylmorphine D-3, codeine D-6, fentanyl D-5, hydrocodone D-6, hydromorphone D-3, methadone D-3, morphine D-3, oxycodone D-3, and oxymorphone D-3. 6-MAM and fentanyl have an LOD of 0.5 ng/mL and an LOQ of 1 ng/mL. The remaining analytes have an LOD of 5 ng/mL and an LOQ of 10 ng/mL. The laboratory does not routinely analyze postmortem samples (outside scope of testing).
T9WUD7	Sample initially screened positive for fentanyl using LC-QTOF.
TTHRRB	Internal standards: mepivacaine, diazepam-d5, clonazepam-d4, THC-d3, THC-OH-d3, THC-COOH-d9
VKLHDX	Fentanyl uses Fentanyl-D5 is used as the internal standard. The calibration curve for fentanyl is 1-100 ng/mL.
W7ZKUF	Internal standard: Mepivacaine. Indication of Hydroxybupropion in screen with LC-QTOF-MS, not confirmed with GC-MS.
WC7ENB	Fentanyl-D5 was used as the internal std., LOQ is 1 ng/mL.
WQKN9R	Small amounts of Citalopram/Escitalopram and Hydroxybupropion detected in sample.
XQJ434	Limits of detection for Fentanyl is 2ng/mL to 40ng/mL. This sample was above the ULOQ.
XQZZTH	We currently do not have a confirmatory method for fentanyl
XRR4EX	The upper limit of quantitation for Fentanyl is 25 ng/mL. The quantitative value for this test was above that, so the result is recorded as greater than 25 ng/mL.
YCCHBX	D5-fentanyl as internal standard
ZCA8W7	Fentanyl assay cut-off: 1 ng/mL
ZGPHAB	Reporting as presence only due to level being about the ULOQ. Reporting range 2-40 ng/mL
ZZYK2N	ELISA used for immunoassay testing. Prazepam used as internal standard for drug screen in blood on GC/MS that was used as screening and also as a confirmatory test for Fentanyl.

Screening Results - Item 2

TABLE 2A

Item Scenario:

Case 2: A 35 year-old male was pulled over for driving erratically. A Drug Recognition Expert arrived and noted that the individual was agitated, had an unsteady gait and poor coordination. The result of a breath alcohol test was 0.00%. Blood was collected 45 minutes later.

Item Contents and Preparation Concentration: Phencyclidine (75 ng/mL)

WebCode	Screening Results
298NAY	Phencyclidine (PCP)
2LFAUC	PCP (Phencyclidine)
2LY3PU	Phencyclidine
33EL4D	Tramadol and PCP
37FPVZ	Phencyclidine
38RRED	PCP
3GGDKC	Phencyclidine
3M7V29	Phencyclidine
3T9682	Phencyclidine
3VGY6L	Phencyclidine
4E7RC2	phencyclidine
4H8YTT	Phencyclidine
4RWPDZ	phencyclidine
64H7XQ	Phencyclidine
6BZRPA	Phencyclidine (PCP)
6T6Y4C	Phencyclidine (PCP)
6XECMV	Phencyclidine
76AJXN	Phencyclidine
7BYEJT	PCP
7CA4ZK	Phencyclidine
7HZFYM	Phencyclidine
7QP26K	Hallucinogens: Phencyclidine (PCP).
8BT78K	Phencyclidine
8C49UJ	Phencyclidine.
8M4U34	No drugs detected utilizing screening methods.

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
8X9Q6K	Phencyclidine
8YKJ29	Phencyclidine (PCP)
8ZXBUP	phencyclidine
9E9B2Z	PCP
9PPZZ6	Phencyclidine (PCP)
9YJ7VR	Phencyclidine
A6Y7QU	Phencyclidine
AFGP3E	Phencyclidine
AKRVLR	Phencyclidine
AZRFNN	phencyclidine
B7QJQR	Phencyclidine
BHGF6	Phencyclidine (PCP)
BPMWGE	Phencyclidine
BUXZA2	Phencyclidine (PCP)
C6CHGY	No drugs detected utilizing screening methods.
C8G6U3	Phencyclidine
CRMHQW	Phencyclidine
DDYVWN	Phencyclidine
DLR64Y	phencyclidine (PCP)
DVFYFV	No drugs detected utilizing screening methods.
EDG4HX	Phencyclidine
EKYJ6F	Phencyclidine
F2JM9M	Illicit hallucinogen - Phencyclidine
F7A4F8	Phencyclidine (PCP)
FGXQUH	Phencyclidine
FKX2QH	Phencyclidine
FZPYPR	Phencyclidine
G2EMLR	No drugs detected utilizing screening methods.

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
GMWUXL	Phencyclidine
GP4YQA	No drugs detected utilizing screening methods.
GRN2FU	Immunoassay: No drugs or drug classes detected LC-QTOF-MS: Identified - Hydroxy Bupropion, Phencyclidine; Indicated - Citalopram, Cotinine
GXDQUC	Phencyclidine
GYAY4G	Phencyclidine (PCP) Citalopram/escitalopram
H6RMHJ	Phencyclidine
HMAQ3Q	Norbuprenorphine, Phencyclidine, Citalopram, Sertraline
HR4KZR	No drugs detected utilizing screening methods.
JUT9XD	PCP
JVX2PQ	Phencyclidine (PCP)
KGZ7UB	Phencyclidine
KNHKVW	PCP
KRWFDD	Phencyclidine
L8P69B	No drugs detected utilizing screening methods.
LFFUPB	No drugs detected utilizing screening methods.
LXJCVA	PCP
M2UYQQ	No drugs detected utilizing screening methods.
M87K2H	phencyclidine
MTKCW6	Phencyclidine (PCP)
MUW8FB	PCP Hydroxybupropion (a metabolite of Bupropion)
MYTQLF	Phencyclidine
NUQDEG	Phencyclidine (PCP)
NZ33ZB	phencyclidine
P4UMJK	PCP
PW9YF3	Phencyclidine
Q9M7ZA	Phencyclidine

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
QEAYAN	PCP
QHTZB2	Phencyclidine
QKDZAH	Phencyclidine (PCP)
QP9RHE	phencyclidine (PCP)
R3CCK6	phencyclidine
RAC2TV	Phencyclidine Caffeine
RET3JA	Phencyclidine
RF2CAL	PCP
RZ48Y4	No analysis was carried out
RZAGYF	Phencyclidine (PCP)
T9WUD7	Phencyclidine, caffeine
THZAY6	phencyclidine
TTHRRB	phencyclidine
UBG99U	PCP
V66K9X	phencyclidine
VKLHDX	Phencyclidine (PCP)
W2K8R8	phencyclidine
W6ZP3W	phencyclidine
W7ZKUF	PCP
WC7ENB	No drugs detected utilizing screening methods.
WM7NBZ	Phencyclidine
WQKN9R	Phencyclidine
XLKQED	PHENCYCLIDINE
XQJ434	Phencyclidine
XQZZTH	PCP
XRR4EX	PCP
XZ4HWT	phencyclidine
Y8JBUB	Phencyclidine

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
YCCHBX	phencyclidine (PCP)
YDQRJX	Phencyclohexyl piperidine (PCP)
YGP3FX	No drugs detected utilizing screening methods.
ZCA8W7	Phencyclidine
ZCR2QP	PCP
ZGPHAB	Phencyclide
ZZYK2N	Phencyclidine

Screening Response Summary for Item 2

Participants: 114

Phencyclidine (PCP): 102
Other drugs/metabolites detected: 7
No drugs/metabolites detected utilizing screening methods: 11

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

Confirmatory Results - Item 2

TABLE 2B

Item Scenario:

Case 2: A 35 year-old male was pulled over for driving erratically. A Drug Recognition Expert arrived and noted that the individual was agitated, had an unsteady gait and poor coordination. The result of a breath alcohol test was 0.00%. Blood was collected 45 minutes later.

Item Contents and Preparation Concentration: Phencyclidine (75 ng/mL)

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
298NAY	Phencyclidine (PCP)		42	±7	ng/mL
2LFAUC	PCP (Phencyclidine)	✓			
2LY3PU	Phencyclidine	✓			
37FPVZ	Phencyclidine	✓			
38RRED	PCP	✓			
3GGDKC	Phencyclidine		33,90		ng/ml
3M7V29	Phencyclidine	✓			
3T9682	Phencyclidine	✓			
3VGY6L	Phencyclidine	✓			
4E7RC2	Phencyclidine	✓			
4H8YTT	No drugs/metabolites detected utilizing confirmatory methods.				
4RWPDZ	Phencyclidine	✓			
6BZRPA	No drugs/metabolites detected utilizing confirmatory methods.				
6T6Y4C	Phencyclidine (PCP)		47	8	ng/mL
6XECMV	Phencyclidine		45	+/- 7	ng/mL
76AJXN	Phencyclidine	✓			
7BYEJT	Phencyclidine (PCP)	✓			
7CA4ZK	Phencyclidine	✓			
7HZFYM	Phencyclidine	✓			
7QP26K	Phencyclidine (PCP)	✓			
8BT78K	Phencyclidine	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
8C49UJ	Phencyclidine	✓			
8M4U34	PCP	✓			
8X9Q6K	Phencyclidine	✓			
8YKJ29	Phencyclidine	✓			
8ZXBUP	Phencyclidine	✓			
9PPZZ6	Phencyclidine (PCP)		58.66	7.62	ng/mL
A6Y7QU	Phencyclidine	✓			
AFGP3E	Phencyclidine	✓			
AKRVLR	Phencyclidine	✓			
AZRFNN	Phencyclidine	✓			
B7QJQR	Phencyclidine	✓			
BHGFP6	Phencyclidine (PCP)	✓			
BPMWGE	Phencyclidine	✓			
BUXZA2	Phencyclidine		42	9.2	%
C6CHGY	No drugs/metabolites detected utilizing confirmatory methods.				
C8G6U3	Phencyclidine	✓			
CRMHQW	Phencyclidine		62.22	11.19	ng/ml
DLR64Y	Phencyclidine (PCP)		45	13%	ug/L
DVYFV	Phencyclidine	✓			
	Citalopram	✓			
EDG4HX	Phencyclidine		53	3.1	ug/L
EKYJ6F	Phencyclidine		70	7	ng/mL
F2JM9M	Phencyclidine	✓			
F7A4F8	Phencyclidine (PCP)	✓			
FGXQUH	Phencyclidine	✓			
FKX2QH	Phencyclidine	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
FZPYPR	Phencyclidine		49	±10	ng/mL
G2EMLR	Phencyclidine	✓			
GMWUXL	Phencyclidine	✓			
GP4YQA	Phencyclidine	✓			
GRN2FU	Phencyclidine	✓			
GXDQUC	Phencyclidine		77	7	ng/mL
GYAY4G	Phencyclidine (PCP)		0.064	0.005	mg/L
H6RMHJ	Phencyclidine	✓			
HMAQ3Q	Phencyclidine		63.74	11.47	ng/mL
HR4KZR	Phencyclidine	✓			
JVX2PQ	Phencyclidine	✓			
KGZ7UB	Phencyclidine		61	21	ng/mL
KNHKWV	PCP		38	7.8%	ug/L
KRWFDD	Phencyclidine		38	+/- 19%	ng/ml
L8P69B	Phencyclidine		65	7	ng/mL
LFFUPB	No drugs/metabolites detected utilizing confirmatory methods.				
LXJCVA	PCP	✓			
M2UYQQ	No drugs/metabolites detected utilizing confirmatory methods.				
M87K2H	Phencyclidine	✓			
MTKCW6	Phencyclidine (PCP)	✓			
MUW8FB	PCP	✓			
	Hydroxybupropion (a metabolite of Bupropion)	✓			
MYTQLF	Phencyclidine	✓			
NUQDEG	Phencyclidine (PCP)	✓			
NZ33ZB	Phencyclidine		49.9		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
P4UMJK	PCP		57.84	14.46	NG/ML
PR33V3	Phencyclidine	✓			
Q9M7ZA	Phencyclidine		45	7.2	ng/mL
QEAYAN	PCP	✓			
QHTZB2	Phencyclidine	✓			
QP9RHE	Phencyclidine (PCP)		54	9.2	ng/mL
R3CCK6	Phencyclidine	✓			
RAC2TV	Phencyclidine	✓			
	Caffeine	✓			
RZAGYF	Phencyclidine		53	11	ng/mL
T9WUD7	Phencyclidine		<0.05		mg/L
THZAY6	Phencyclidine	✓			
TTHRRB	Phencyclidine	✓			
UBG99U	Phencyclidine	✓			
V66K9X	Phencyclidine		0.057	0.0089	mg/L
VKLHDX	PCP		65	22	ng/mL
W2K8R8	Phencyclidine	✓			
W6ZP3W	Phencyclidine	✓			
W7ZKUF	Phencyclidine	✓			
WC7ENB	Phencyclidine	✓			
WM7NBZ	Phencyclidine	✓			
WQKN9R	Phencyclidine	✓			
XLKQED	Phencyclidine		62		ng/mL
XQJ434	Phencyclidine	✓			
XQZZTH	No drugs/metabolites detected utilizing confirmatory methods.				
XRR4EX	PCP		39.2	6.2	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
XZ4HWT	Phencyclidine		99,3		ng/mL
Y8JBUB	Phencyclidine	✓			
YCCHBX	Phencyclidine (PCP)	✓			
YGP3FX	No drugs/metabolites detected utilizing confirmatory methods.				
ZCR2QP	PCP	✓			
ZGPHAB	Phencyclidine	✓			
ZZYK2N	Phencyclidine	✓			
Confirmatory Response Summary for Item 2					Participants: 102
	Phencyclidine:	95	(93.1%)		
	Other drugs/metabolites detected:	3	(2.9%)		
	No drugs/metabolites detected utilizing confirmatory methods:	7	(6.9%)		

Raw Data - Item 2

TABLE 2C

**Item 2 Raw Data - Phencyclidine
Preparation concentration: 75 ng/mL**

WebCode	List of Raw Data determinations (ng/mL)				Participant Mean
298NAY	42.500				42.500
3GGDKC	33.900				33.900
6T6Y4C	47.000				47.000
6XECMV	45.400				45.400
9PPZZ6	58.660				58.660
BUXZA2	42.000	43.000			42.500
CRMHQW	63.360	62.220			62.790
DLR64Y	45.000	45.500			45.250
EDG4HX	52.960	53.590			53.280
EKYJ6F	70.000				70.000
FZPYPR	49.174				49.170
GXDQUC	77.000				77.000
GYAY4G	63.930	62.770	64.580	65.966	64.310
HMAQ3Q	63.740				63.740
KGZ7UB	61.870				61.870
KNHKWV	38.000				38.000
KRWFDD	38.050				38.050
L8P69B	69.170	61.290			65.230
NZ33ZB	49.200	50.500			49.850
P4UMJK	57.840				57.840
Q9M7ZA	45.200				45.200
QP9RHE	51.000	58.000			54.500
RZAGYF	53.114				53.110
T9WUD7					

TABLE 2C: Raw Data - Item 2
Item 2 Raw Data - Phencyclidine
Preparation concentration: 75 ng/mL

WebCode	List of Raw Data determinations (ng/mL)	Participant Mean
V66K9X	57.810	57.810
VKLHDX	65.000	65.000
XLKQED	62.000	62.000
XRR4EX	39.200	39.200
XZ4HWT	99.300	99.300 X

Statistical Analysis for Item 2 - Phencyclidine		
Grand Mean 53.451	Number of Participants Included 27	Number of Participants without Raw Data or Data that was not reported in ng/mL 1
Standard Deviation 11.0876	Number of Participants Excluded 1	

Reporting Procedures - Item 2

TABLE 2D - Item 2

Quantitative Reporting Procedures	
WebCode	<i>If quantitative analysis was performed, the reported concentrations are:</i>
298NAY	A single determination.
3GGDKC	A single determination.
6T6Y4C	A single determination.
6XECMV	A single determination.
7QP26K	A single determination.
8X9Q6K	A single determination.
9PPZZ6	A single determination.
AKRVLR	A single determination.
BUXZA2	A single determination.
CRMHQW	Lowest of two values; screening was performed on a quantitative method
DLR64Y	mean and truncated to nearest whole number
EDG4HX	A single determination.
EKYJ6F	A single determination.
F2JM9M	A single determination.
FZPYPR	A single determination.
GMWUXL	A single determination.
GXDQUC	A single determination.
GYAY4G	The mean of duplicate/several determinations.
HMAQ3Q	A single determination.
KGZ7UB	A single determination.
KNHKVW	A single determination.
KRWFDD	A single determination.
L8P69B	The mean of duplicate/several determinations.
NZ33ZB	The mean of duplicate/several determinations.
P4UMJK	A single determination.
Q9M7ZA	A single determination.
QP9RHE	The mean of duplicate/several determinations.
RZAGYF	A single determination.
T9WUD7	The mean of duplicate/several determinations.
V66K9X	A single determination.
VKLHDX	A single determination.

TABLE 2D: Reporting Procedures - Item 2

Quantitative Reporting Procedures

WebCode	<i>If quantitative analysis was performed, the reported concentrations are:</i>
XLKQED	A single determination.
XRR4EX	A single determination.
XZ4HWT	A single determination.

Response Summary for Item 2	Participants: 34
A single determination:	27 (79.4%)
The mean of duplicate/several determinations:	5 (14.7%)
Other:	2 (5.9%)

Methods of Analysis - Item 2

TABLE 2E - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
298NAY	Immunoassay GC/MS	✓	✓	✓
2LFAUC	LC/MS/MS	✓	✓	
2LY3PU	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
33EL4D	Immunoassay	✓		
37FPVZ	LC/MS/MS GC/MS	✓	✓	
38RRED	Immunoassay GC/MS	✓	✓	
3GGDKC	GC/MS	✓	✓	✓
3M7V29	Immunoassay GC/MS	✓	✓	
3T9682	HRAMS LC/MS/MS	✓	✓	
3VGY6L	Immunoassay GC/MS	✓ ✓	✓	
4E7RC2	LC/MS/MS	✓	✓	
4H8YTT	Immunoassay	✓		
4RWPDZ	LC-HRMS/MS GC/MS LC/MS/MS	✓	✓ ✓	
64H7XQ	Immunoassay	✓		
6BZRPA	Immunoassay	✓		
6T6Y4C	Immunoassay GC/MS	✓	✓	✓
6XECMV	Immunoassay GC/MS	✓	✓	
76AJXN	GC/MS	✓	✓	
7BYEJT	Immunoassay LC/MS/MS	✓	✓	
7CA4ZK	GC/MS		✓	
7HZFYM	LC/QTOF GC/MS	✓	✓	
7QP26K	LC/MS/MS	✓	✓	
8BT78K	Immunoassay GC/MS	✓ ✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
8C49UJ	LC/MS	✓		
	LC/MS/MS		✓	
8M4U34	LC-QTOF	✓	✓	
8X9Q6K	GC/MS		✓	
8YKJ29	Immunoassay	✓		
	GC/MS		✓	
8ZXBUP	LC-HRMS-MS	✓	✓	
9E9B2Z	Immunoassay	✓		
9PPZZ6	LC/MS/MS	✓	✓	✓
9YJ7VR	Immunoassay	✓		
A6Y7QU	HRAMS	✓	✓	
AFGP3E	GC/MS	✓		
	LC/MS/MS	✓	✓	
AKRVLR	LC/MS/MS	✓		
	GC/MS		✓	
AZRFNN	LCHRAMS	✓	✓	
	GC/MS		✓	
	LC/MS/MS		✓	
B7QJQR	LC/MS/MS	✓		
	GC/MS		✓	
BHGFP6	Immunoassay	✓		
	GC/MS		✓	
BPMWGE	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓		
BUXZA2	Immunoassay	✓		
	GC/MS	✓	✓	
	GC/NPD			✓
C6CHGY	Immunoassay	✓		
C8G6U3	Immunoassay	✓		
	GC/MS		✓	
CRMHQW	LC/MS/MS	✓	✓	
DDYVWN	LC/MS/MS	✓		
	Immunoassay	✓		
DLR64Y	Immunoassay	✓		
	GC/MS	✓	✓	
	GC/NPD			✓
DVYFV	GC/MS		✓	
EDG4HX	Immunoassay	✓		
	GC/MS		✓	✓

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
EKYJ6F	LC/MS/MS	✓	✓	✓
	GC/MS	✓		
F2JM9M	LC/MS/MS	✓		
	GC/MS		✓	
F7A4F8	Immunoassay	✓		
	GC/MS		✓	
FGXQUH	LC-HRMS/MS	✓		
	LC/MS	✓	✓	
FKX2QH	LC-HRMS/MS	✓		
	LC/MS/MS	✓	✓	
FZPYPR	Immunoassay	✓		
	LC/MS/MS		✓	✓
G2EMLR	LC-QTOF-MS	✓		
	GC/MS		✓	
GMWUXL	LC/MS/MS	✓		
	GC/MS		✓	
GP4YQA	GC/MS		✓	
GRN2FU	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
GXDQUC	LC/MS/MS	✓	✓	✓
	GC/MS	✓		
GYAY4G	LC/MS/MS		✓	✓
	LC-QTOF-MS	✓		
	Immunoassay	✓		
H6RMHJ	LC/MS/MS	✓		
	GC/MS		✓	
HMAQ3Q	LC/MS/MS	✓	✓	
HR4KZR	LC-QTOF-MS	✓		
	GC/MS		✓	
JUT9XD	Immunoassay	✓		
JVX2PQ	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
KGZ7UB	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓	✓	✓
KNHKVW	Immunoassay	✓		
	GC/MS		✓	
	GC-NPD			✓
KRFDD	Immunoassay	✓		
	GC/MS		✓	✓

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
L8P69B	Immunoassay GC/MS LC/MS/MS	✓	✓	✓
LFFUPB	Immunoassay UPLC-QTOF-MS	✓ ✓		✓
LXJCVA	Immunoassay GC/MS LC/MS	✓	✓ ✓	
M2UYQQ	Immunoassay GC/FID-HS &/or MS	✓ ✓		
M87K2H	LC-HRAMS LC/MS/MS	✓	✓	
MTKCW6	Immunoassay GC/MS	✓ ✓	✓	
MUW8FB	LC-QTOF	✓	✓	
MYTQLF	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	
NUQDEG	LC/MS/MS	✓	✓	
NZ33ZB	LC/MS/MS	✓	✓	✓
P4UMJK	LC/MS/MS	✓	✓	✓
PR33V3	GC/MS		✓	
PW9YF3	Immunoassay	✓		
Q9M7ZA	Immunoassay GC/MS	✓	✓	✓
QEAYAN	Immunoassay GC/MS	✓	✓	
QHTZB2	GC/MS		✓	
QKDZAH	Immunoassay	✓		
QP9RHE	Immunoassay LC/MS/MS	✓	✓	✓
R3CCK6	High resolution accurate mass	✓	✓	
RAC2TV	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	
RET3JA	Immunoassay	✓		
RF2CAL	Immunoassay	✓		
RZAGYF	Immunoassay LC/MS/MS	✓	✓	✓
THZAY6	LC/MS/MS HRAMS	✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
TTHRRB	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS		✓	
UBG99U	Immunoassay	✓		
	GC/MS	✓	✓	
V66K9X	LC-TOF-MS	✓		
	GC/MS		✓	✓
VKLHDX	LC/MS/MS	✓	✓	✓
W2K8R8	Immunoassay	✓		
	LC/MS/MS	✓	✓	
	GC/MS		✓	
W6ZP3W	LC/MS/MS	✓	✓	
W7ZKUF	Immunoassay	✓		
	LC-QTOF	✓		
	GC/MS		✓	
WC7ENB	QTOF	✓	✓	
WM7NBZ	Immunoassay	✓		
	LC/Q-TOF MS		✓	
WQKN9R	Immunoassay	✓		
	GC/MS		✓	
	LC/QTOF-MS	✓		
XLKQED	Immunoassay	✓		
	GC/MS		✓	✓
XQJ434	LC/MS/MS	✓		
	GC/MS		✓	
XQZZTH	Immunoassay	✓		
XRR4EX	LC/MS/MS	✓	✓	✓
XZ4HWT	LC/MS/MS	✓		
	LC-HRMS		✓	
	GC/MS			✓
Y8JBUB	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
YCCHBX	LC-QTOF-MS	✓		
YDQRJX	Immunoassay	✓		
YGP3FX	GC/MS		✓	
ZCA8W7	Immunoassay	✓		
ZCR2QP	LC/QTOF-MS	✓		
	GC/MS		✓	
	Immunoassay	✓		
ZGPHAB	LC/MS/MS	✓		
	GC/MS		✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
ZZYK2N	Immunoassay	✓		
	GC/MS	✓	✓	

Response Summary for Item 2			Participants: 113		
	Screening	Confirmatory	Quantitation		
Immunoassay:	61	0	0		
GC/MS:	14	59	9		
LC/MS:	2	2	0		
LC/MS/MS:	31	32	13		
Other:	27	9	4		

Additional Comments for Item 2

TABLE 2F

WebCode	Item Comments
298NAY	The ELISA immunoassay was used to screen for six classes of drugs: amphetamines, benzodiazepines, cannabinoids, cocaine, opiates and PCP. The PCP analysis was performed on the GC/MS. The cut off is 5 ng/mL. The internal standard used for PCP was PCP-D5. The compound was extracted by liquid/liquid targeting the free, non-conjugated/non-protein bound compound.
2LY3PU	Cut-off for phencyclidine is 10 ng/mL
33EL4D	The State Crime Laboratory is only able to confirm and quantitation THC and its metabolites and certain basic drugs (amphetamine, diphenhydramine, ketamine, LSD, MDMA, MDA, Mescaline, Methamphetamine, Phentermine, Ephedrine/Pseudoephedrine, Psilocyn).
38RRED	Confirmatory ISTD: NPA and SKF
3GGDKC	Not included in internal quality control.
3M7V29	Prazepam as Internal Standard. Phencyclidine - 10ng/mL method capability.
3T9682	Mepivacaine used as internal standard for both types of testing.
3VGY6L	Promazine used as internal standard for GC/MS screen/confirmation.
4H8YTT	Phencyclidine Immunoassay LOD: 5ng/mL
4RWPDZ	IS: mepivacaine, mephobarbital
64H7XQ	Phencyclidine screening cut off is 5 ng/mL
6XECMV	ELISA was used to screen the sample. The sample was screened using Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids and Methamphetamine. Phencyclidine-D5 was used as an internal standard with a limit of detection of 5 ng/mL.
76AJXN	The immunoassay method used for this sample did not include a phencyclidine panel.
8BT78K	Promazine used for Internal Standard
8C49UJ	Estazolam was used as an internal standard.
8M4U34	Also detected Acetaminophen, atenolol, citalopram, desmethylcitalopram, hydroxybupropion, and propranolol by LC-QTOF. These were not confirmed or quantitated. Performed and SLE extraction with Biotage columns. IS included a mix of 10 deuterated compounds.
9E9B2Z	Immunoassay cutoff concentrations (ng/ml). Methamphetamine 20 Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Zolpidem 10 Tramadol 5 TCA 25 Phencyclidine 5 Opioids 10 Opiates 10 Methadone 10 Meprobamate 100
9YJ7VR	ELISA was used to screen the sample with Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids and Methamphetamine. Screening results were not confirmed due to [Examiner] not competent in the confirmation analytiscal method at the time of testing. -[Initials] 06/10/2021
A6Y7QU	Internal standard: Mepivacaine
AZRFNN	trace amounts of lidocaine, propranolol and citalopram were present in all specimens, which had to be confirmed as trace amounts prior to reporting results. internal standard: mepivacaine
CRMHQW	Phencyclidine-d5; Linear Range 5-250 ng/ml

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
EDG4HX	Second replicate run as a "QC" High calibrator leaked in insert, not enough sample to analyze, removed from the calibration series
F2JM9M	The internal standard used was Proadifen (SKF). This drug is reported qualitatively.
FGXQUH	Mepivacaine used as internal standard
FKX2QH	Mepivacaine was used as internal standard
FZPYPR	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. LOD for PCP is 0.5 ng/ml. LOQ for PCP is 1 ng/ml. PCP-D5 is used as the internal standard.
GMWUXL	Internal Standard used was Proadifen (SKF) and we do not report quantitation for this drug.
GRN2FU	Internal Standard(s): Mepivacaine. Hydroxy Bupropion, Citalopram, and Cotinine indicated not confirmed
GYAY4G	Possible low level atenolol on screening (RT shift) but not detected on confirmation by LC-MS/MS (LOD = 0.125 mg/L). Citalopram/escitalopram not detected on quantitation/confirmation by LC-MS/MS (LOD = 25 ng/mL). Cannabinoid metabolites were not detected by ELISA screening (immunoassay).
HMAQ3Q	Phencyclidine LOQ 5ng/mL; ISTD Phencyclidine-D5
JUT9XD	target PCP at 5 ng/ml
JVX2PQ	Internal Standard: Mepivacaine
KGZ7UB	Istd=PCP-D5. LOQ= 5 ng/mL.
KRWFDD	Internal standard used: Phencyclidine-D5. Additional screening performed by GC/MS scan (underivatized and derivatized sample #2) for additional controlled substances. Prazepam (100 ng/ul) was used as the internal standard.
LFFUPB	Screening: Immunoassay and UPLC-QTOF MS (Waters). For UPLC-QTOF MS (Waters): Salting-out assisted extraction. Internal Standards: Cyclobarbitone, Prazepam & D3-Methadone.
LXJCVA	Diazepam-D5 is used as Internal Standard
M2UYQQ	GC/FID-HS &/or MS used only to screen for volatile drugs. Immunoassay used to screen for all other drugs in screen.
M87K2H	Case was screened using LC/High Resolution Accurate Mass Spectrometry (LC-HRAMS).
MTKCW6	Promazine ISTD for Screen Extraction
PR33V3	Internal standard: flurazepam. The final extraction is derivatized with BSTFA and injected in GC-MS. Sample preparation: L/L extraction. LOD: No data.
PW9YF3	Screening only/no confirmation testing performed.
Q9M7ZA	This specimen screened negative for the following assays: benzodiazepines, cannabinoids, cocaine/metabolites, amphetamines, and opiates. 2) The cutoff for phencyclidine is 5ng/mL. 4) The internal standard used for phencyclidine is phencyclidine-d5.
QEAYAN	Confirmatory ISTD: NPA and SKF

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
QKDZAH	Analysis by immunoassay screening in whole blood for: Analyte (Cutoff). Meth /Amphetamines (20) Barbiturates (50) Benzodiazepines (10) Buprenorphine (1) Cannabinoids (10) Benzoylcegonine (50) Dextromethorphan (5) Fentanyl (1) Meprobamate (100) Methadone (10) Opiates (10) Opioids (10) Phencyclidine (5) TCA (25) Tramadol (5) Zolpidem (10)
QP9RHE	our laboratory reports quantitative blood drug values however the law in our jurisdiction only requires "any amount" to be present
R3CCK6	mepivacaine was the internal standard used for analyses. lidocaine, propranolol, citalopram were detected in very small amounts. They had poor mass spectrums and therefore were not reported.
RET3JA	ELISA was used to screen the sample. The sample was screened using Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids and Methamphetamine. Screening results were not confirmed because [Examiner] was not competent in the confirmation analytical method at the time of testing. -[Initials] 05/18/2021
RF2CAL	Screening cutoff limit: Randox Multistat: 5ng/mL. No confirmatory testing was performed. Only screening.
RZAGYF	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine, and zolpidem. Confirmation/quantitation of phencyclidine using phencyclidine D-5 as internal standard. LOD for phencyclidine is 0.5 ng/mL. LOQ for phencyclidine is 1.0 ng/mL.
T9WUD7	Sample initially screened positive for phencyclidine using LC-QTOF. Phencyclidine was quanted using a GC/NPD. Phencyclidine was below the laboratory's LOD, which is 0.05 mg/L for this method.
TTHRRB	internal standards: mepivacaine, THC-d3, THC-OH-d3, THC-COOH-d9, amphetamine-d11, methamphetamine-d11
VKLHDX	PCP uses PCP-d5 as an internal standard. The calibration curve for PCP is 1-100 ng/mL.
W7ZKUF	Mepivacaine was used as an internal standard (IS) and was seen in the LC-QTOF and GC/MS data. Immunoassay screening was done 5/14/2021. LC-QTOF screening was done 5/18/2021.
WC7ENB	QTOF analysis was performed in duplicate (5/13/21 and 5/20/21) to confirm Phencyclidine. We do not have a quantitative assay for Phencyclidine.
WQKN9R	Small amounts of Citalopram/Escitalopram and Hydroxybupropion detected in sample.
XQJ434	Quantitation is not given on the instrumentation used for confirmation analysis of Phencyclidine.
XQZZTH	We currently do not have a confirmatory method for PCP
Y8JBUB	Citalopram indicated in screening and confirmation, but below cutoff for reporting per internal policy. Mepivacaine used as internal standard.
YDQRJX	The PCP cutoff for the screening was >5ng/ml used.
ZCA8W7	Phencyclidine assay cut-off: 10 ng/mL
ZZYK2N	ELISA used for immunoassay testing. Prazepam used as internal standard for drug screen in blood on GC/MS that was used as screening and also as a confirmatory test for Phencyclidine.

Screening Results - Item 3

TABLE 3A

Item Scenario:

Case 3: A 27 year-old female at a party was seen slumped over on a couch. It appeared that she had vomited. She was roused by her friends and taken to the hospital. The victim was very drowsy and complained of nausea and a headache. Blood samples were collected at the hospital.

Item Contents and Preparation Concentration: Oxycodone (180 ng/mL)
Noroxycodone (50 ng/mL)
Zolpidem (60 ng/mL)

WebCode	Screening Results
298NAY	Opiates
2LFAUC	Oxycodone and Zolpidem
2LY3PU	Oxycodone and zolpidem
33EL4D	Oxycodone/Oxymorphone, Zolpidem and Tramadol
37FPVZ	Oxycodone, Zolpidem
38RRED	opiates, oxycodone/oxymorphone, zolpidem
3GGDKC	zolpidem, oxycodone
3M7V29	Oxycodone Opioids Zolpidem
3T9682	Oxycodone Zolpidem
3VGY6L	Zolpidem
4E7RC2	zolpidem, oxycodone, noroxycodone
4H8YTT	Opiates and Zolpidem.
4RWPDZ	oxycodone, zolpidem
64H7XQ	Oxycodone and Zolpidem
6BZRPA	Oxycodone/Oxymorphone, Zolpidem
6T6Y4C	Oxycodone Zolpidem
6XECMV	Opiates
76AJXN	Zolpidem, Oxycodone
7BYEJT	Opioids, oxycodone 1, oxycodone 2, zolpidem
7CA4ZK	Zolpidem

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
7HZFYM	Oxycodone Zolpidem
7QP26K	Nonbenzodiazepine Hypnotics and Opioids: Zolpidem, Oxycodone and its metabolite Noroxycodone.
8BT78K	Oxycodone Zolpidem
8C49UJ	Oxycodone, Zolpidem
8M4U34	Opiates
8X9Q6K	No drugs detected utilizing screening methods.
8YKJ29	Oxycodone Zolpidem
8ZXBUP	oxycodone, noroxycodone, zolpidem, citalopram
9E9B2Z	Oxycodone, generic opioids, zolpidem
9PPZZ6	Oxycodone Zolpidem
9YJ7VR	No drugs detected utilizing screening methods.
A6Y7QU	Oxycodone, zolpidem
AFGP3E	Oxycodone, zolpidem
AKRVLR	Oxycodone, Zolpidem
AZRFNN	zolpidem, oxycodone
B7QJQR	Oxycodone, Zolpidem
BHGFP6	No drugs detected utilizing screening methods.
BPMWGE	Oxycodone Zolpidem
BUXZA2	Oxycodone Zolpidem
C6CHGY	Oxycodone Zolpidem
C8G6U3	Oxycodone Zolpidem
CRMHQW	Oxycodone, Zolpidem

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
DDYVWN	Oxycodone, Zolpidem
DLR64Y	oxycodone zolpidem
DVFYFV	No drugs detected utilizing screening methods.
EDG4HX	No drugs detected utilizing screening methods.
EKYJ6F	oxycodone, noroxycodone, zolpidem
F2JM9M	Nonbenzodiazepine hypnotic - Zolpidem Opioid - Oxycodone
F7A4F8	No drugs detected utilizing screening methods.
FGXQUH	Oxycodone , Zolpidem
FKX2QH	Oxycodone, Zolpidem
FZPYPR	oxycodone/oxymorphone, zolpidem
G2EMLR	No drugs detected utilizing screening methods.
GMWUXL	Zolpidem, and Oxycodone
GP4YQA	No drugs detected utilizing screening methods.
GXDQUC	Oxycodone, Noroxycodone, Zolpidem
GYAY4G	Oxycodone, noroxycodone Zolpidem Citalopram/escitalopram
H6RMHJ	Oxycodone Zolpidem
HMAQ3Q	Buprenorphine, Norbuprenorphine, Oxycodone, Zolpidem, Citalopram
JUT9XD	opiates, zolpidem
JVX2PQ	Oxycodone Zolpidem
KGZ7UB	Noroxycodone Oxycodone Zolpidem
KNHKVV	No drugs detected utilizing screening methods.
KRWFDD	Opiates
L8P69B	Opiates

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
LFFUPB	Oxycodone, Zolpidem
LXJCVA	Oxycodone
M2UYQQ	Oxycodone Zolpidem
M87K2H	zolpidem, oxycodone
MTKCW6	Oxycodone Zolpidem
MUW8FB	Zolpidem Hydroxybupropion (a metabolite of Bupropion) Oxycodone
MYTQLF	Oxycodone, Zolpidem
NUQDEG	Noroxycodone, oxycodone, zolpidem
NZ33ZB	oxycodone zolpidem
P4UMJK	ZOLPIDEM, OXYCODONE, NOROXYCODONE, LORAZEPAM
PW9YF3	Oxycodone / Oxymorphone
Q9M7ZA	Opiates
QEAYAN	Opiates, oxycodone/oxymorphone, zolpidem
QHTZB2	Oxycodone Zolpidem
QKDZAH	Preliminarily found to contain Oxycodone, Generic opioids, and Zolpidem.
QP9RHE	zolpidem opiates
R3CCK6	oxycodone zolpidem
RAC2TV	Oxycodone Nor-oxycodone Zolpidem Caffeine
RET3JA	No drugs detected utilizing screening methods.
RF2CAL	Oxycodone
RZ48Y4	No analysis was carried out

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
RZAGYF	Cocaine Metabolites, Opiates, Oxycocone/Oxymorphone, Zolpidem
T9WUD7	Oxycodone, zolpidem, caffeine, noroxycodone
THZAY6	oxycodone; zolpidem
TTHRRB	oxycodone, zolpidem
UBG99U	Opiates, Zolpidem
V66K9X	zolpidem oxycodone
VKLHDX	Oxycodone Noroxycodone Zolpidem
W2K8R8	oxycodone zolpidem
W6ZP3W	oxycodone and zolpidem
WC7ENB	No drugs detected utilizing screening methods.
WM7NBZ	oxycodone 1 oxycodone 2 opioids Zolpidem
WQKN9R	Oxycodone Zolpidem
XLKQED	Oxycodone and Zolpidem
XQJ434	Oxycodone Zolpidem
XQZZTH	Zolpidem, Oxycodone/oxymorphone
XRR4EX	Zolpidem Oxycodone
XZ4HWT	oxicodone, zolpidem
Y8JBUB	Zolpidem Oxycodone Noroxycodone
YCCHBX	zolpidem, oxycodone
YDQRJX	No drugs detected utilizing screening methods.
YGP3FX	Opioids/ 6-Acetylmorphine

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
ZCA8W7	Opiates Oxycodone
ZCR2QP	Oxycodone Zolpidem
ZGPHAB	Oxycodone, Zolpidem
ZZYK2N	Zolpidem

Screening Response Summary for Item 3	Participants: 111
Oxycodone/Noroxycodone:	84
Zolpidem:	87
Opioids/Opiates:	20
Other drugs/metabolites detected:	10
No drugs/metabolites detected utilizing screening methods:	12

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 27 year-old female at a party was seen slumped over on a couch. It appeared that she had vomited. She was roused by her friends and taken to the hospital. The victim was very drowsy and complained of nausea and a headache. Blood samples were collected at the hospital.

Item Contents and Preparation Concentration: Oxycodone (180 ng/mL)
 Noroxycodone (50 ng/mL)
 Zolpidem (60 ng/mL)

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
298NAY	Oxycodone		157	±22	ng/mL
2LFAUC	Oxycodone	✓			
	Zolpidem	✓			
2LY3PU	Oxycodone	✓			
	Zolpidem	✓			
37FPVZ	Oxycodone		157		ng/mL
	Zolpidem	✓			
38RRED	Oxycodone		160	62	ng/mL
	Zolpidem	✓			
3GGDKC	Oxycodone		193,20	30%	ng/ml
	Zolpidem		53,61	30%	ng/ml
3M7V29	Oxycodone	✓			
	Zolpidem	✓			
3T9682	Oxycodone		0.14	0.04	mg/L
	Zolpidem		lower than the lowest calibrator of 50mcg/L		
3VGY6L	Zolpidem	✓			
4E7RC2	Oxycodone		167.10	31.74	ng/mL
	Noroxycodone		47.01	8.46	ng/mL
	Zolpidem		58.98	10.02	ng/mL
4H8YTT	No drugs/metabolites detected utilizing confirmatory methods.				
4RWPDZ	Oxycodone		0.14	0.04	mg/L
	Zolpidem		53	16	µg/L

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
6BZRPA	No drugs/metabolites detected utilizing confirmatory methods.				
6T6Y4C	Oxycodone	✓			
	Zolpidem		56	11	ng/mL
6XEEMV	Oxycodone		160	+/- 23	ng/mL
76AJXN	Oxycodone		140		ng/mL
	Zolpidem		56		ng/mL
7BYEJT	Oxycodone	✓			
	Noroxycodone	✓			
7CA4ZK	Zolpidem	✓			
7HZFYM	Oxycodone	✓			
	Zolpidem	✓			
7QP26K	Oxycodone	✓			
	Noroxycodone	✓			
	Zolpidem	✓			
8BT78K	Oxycodone	✓			
	Zolpidem	✓			
8C49UJ	Oxycodone	✓			
	Zolpidem	✓			
8M4U34	Oxycodone		0.16	0.04	mg/L
	Noroxycodone		< 0.050		mg/L
	Zolpidem		0.060	0.005	mg/L
8X9Q6K	No drugs/metabolites detected utilizing confirmatory methods.				
8YKJ29	Oxycodone	✓			
	Zolpidem	✓			
8ZXBUP	Oxycodone		0.12	0.03	mg/L
9E9B2Z	Oxycodone		144	26	ng/ml
9PPZZ6	Oxycodone		141.08	18.34	ng/mL
	Zolpidem		58.77	5.87	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
A6Y7QU	Oxycodone		0.12	0.03	mg/L
	Zolpidem		lower than the lowest calibrator of 50		mcg/L
AFGP3E	Oxycodone	✓			
	Zolpidem	✓			
AKRVLR	Oxycodone		154		ng/mL
	Zolpidem	✓			
AZRFNN	Oxycodone		0.13	0.03	mg/L
	Zolpidem		54	16	mcg/L
B7QJQR	Oxycodone		148		ng/mL
	Zolpidem	✓			
BHGFP6	Oxycodone	✓			
	Zolpidem	✓			
BPMWGE	Oxycodone	✓			
	Zolpidem	✓			
BUXZA2	Oxycodone	✓			
	Zolpidem	✓			
C6CHGY	Oxycodone		152	30	ng/mL
	Zolpidem		61	12	ng/mL
C8G6U3	Oxycodone	✓			
	Zolpidem	✓			
CRMHQW	Oxycodone		174.61	20.95	ng/ml
	Zolpidem		58.60	9.37	ng/ml
DLR64Y	Oxycodone	✓			
	Zolpidem	✓			
DVFYFV	Oxycodone	✓			
	Zolpidem	✓			
	Citalopram	✓			
EDG4HX	Oxycodone	✓			
	Zolpidem	✓			

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
EKYJ6F	Oxycodone		197	27	ng/mL
	Zolpidem		68	10	ng/mL
F2JM9M	Oxycodone		155		ng/mL
	Zolpidem	✓			
F7A4F8	Oxycodone	✓			
	Zolpidem	✓			
FGXQUH	Oxycodone		130	30	ng/mL
	Zolpidem		<50		
FKX2QH	Oxycodone		160	42	ng/mL
	Zolpidem		< 50		
FZPYPR	Oxycodone		0.15	±0.03	µg/mL
	Zolpidem		58	9	ng/mL
G2EMLR	Oxycodone	✓			
	Zolpidem	✓			
GMWUXL	Oxycodone		146		ng/mL
	Zolpidem	✓			
GP4YQA	No drugs/metabolites detected utilizing confirmatory methods.				
GXDQUC	Oxycodone		198	27	ng/mL
	Zolpidem		65	9	ng/mL
GYAY4G	Oxycodone		0.16	0.02	mg/L
	Zolpidem		0.059	0.004	mg/L
H6RMHJ	Oxycodone		158		ng/mL
	Zolpidem	✓			
HMAQ3Q	Oxycodone		179.86	21.58	ng/mL
	Zolpidem		60.51	9.68	ng/mL
JVX2PQ	Oxycodone	✓			
	Zolpidem	✓			

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
KGZ7UB	Oxycodone		171	58	ng/mL
	Noroxycodone	✓			
	Zolpidem		65	22	ng/mL
KNHKW	Oxycodone	✓			
	Zolpidem	✓			
KRWFDD	Oxycodone	✓			
L8P69B	Ox		180	16	ng/mL
LFFUPB	Oxycodone		150		ng/mL
	Zolpidem		<100		ng/mL
LXJCVA	Oxycodone	✓			
M2UYQQ	Oxycodone		0.15	31%	ug/mL
	Zolpidem	✓			
M87K2H	Oxycodone		0.17	0.04	mg/L
	Zolpidem		55	17	µg/L
MTKCW6	Oxycodone	✓			
	Zolpidem	✓			
MUW8FB	Oxycodone	✓			
	Zolpidem	✓			
	Hydroxybupropion (a metabolite of Bupropion)	✓			
MYTQLF	Oxycodone		148		ng/mL
	Zolpidem	✓			
NUQDEG	Oxycodone		162.91	+/- 30.95	ng/mL
	Noroxycodone		44.89	+/- 8.08	ng/mL
	Zolpidem		57.39	+/- 9.75	ng/mL
NZ33ZB	Oxycodone		168		ng/mL
	Zolpidem		58.6		ng/mL
P4UMJK	Oxycodone		147.27	44.19	NG/ML
	Noroxycodone		43.99	13.20	NG/ML
	Zolpidem		61.34	15.34	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
PR33V3	Oxycodone	✓			
Q9M7ZA	Oxycodone		168	24	ng/mL
QEAYAN	Oxycodone		142	55	ng/mL
	Zolpidem	✓			
QHTZB2	Oxycodone	✓			
	Zolpidem	✓			
QKDZAH	Oxycodone		121	22	ng/mL
QP9RHE	Oxycodone		151	11	ng/mL
	Zolpidem		55	12	ng/mL
R3CCK6	Oxycodone		0.15	0.04	mg/L
	Zolpidem		LLC		
RAC2TV	Oxycodone	✓			
	Nor-oxycodone	✓			
	Zolpidem	✓			
	Caffeine	✓			
RZAGYF	Oxycodone		0.15	0.02	µg/mL
	Zolpidem		58	9	ng/mL
T9WUD7	Oxycodone		0.159	0.015	mg/L
	Noroxycodone	✓			
	Zolpidem		0.0614	0.0079	mg/L
	caffeine	✓			
THZAY6	Oxycodone		0.12	0.03	mg/L
	Zolpidem		lower than the lowest calibrator of 0.125		mg/L
TTHRRB	Oxycodone		0.15	0.04	mg/L
	Zolpidem		lower than the lowest calibrator of 50 mcg/L		
UBG99U	Oxycodone	✓			
	Zolpidem	✓			
V66K9X	Oxycodone		0.17	0.029	mg/L
	Zolpidem		0.066	0.013	mg/L

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
VKLHDX	Oxycodone		167	28	ng/mL
	Noroxycodone		46	13	ng/mL
	Zolpidem		70	15	ng/mL
W2K8R8	Oxycodone		0.16	0.04	mg/L
	Zolpidem		lower than the lowest calibrator of 50 micrograms/liter		mcg/L
W6ZP3W	Oxycodone	✓			
	Zolpidem	✓			
WC7ENB	Oxycodone		0.15	0.04	mg/L
	Noroxycodone		< 0.050		mg/L
	Zolpidem		0.059	0.005	mg/L
WM7NBZ	Oxycodone	✓			
	Noroxycodone	✓			
	Zolpidem	✓			
WQKN9R	Oxycodone	✓			
	Zolpidem	✓			
XLKQED	Oxycodone		151		ng/mL
	Zolpidem		60		ng/mL
XQJ434	Oxycodone		149		ng/mL
	Zolpidem	✓			
XQZZTH	No drugs/metabolites detected utilizing confirmatory methods.				
XRR4EX	Oxycodone		Greater than 100 ng/mL		
	Zolpidem		Less than 50 ng/mL		
XZ4HWT	oxycodone		220		ng/mL
	Zolpidem		66		ng/mL
Y8JBUB	Oxycodone	✓			
	Zolpidem	✓			
YCCHBX	Oxycodone		0.15	15%	mg/L
	Zolpidem		0.06	15%	mg/L

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
YGP3FX	6-Acetylmorphine	✓			
ZCR2QP	Oxycodone	✓			
	Zolpidem	✓			
ZGPHAB	Oxycodone		165		ng/mL
	Zolpidem				
ZZYK2N	Zolpidem	✓			

Confirmatory Response Summary for Item 3		Participants: 101
Oxycodone:	92 (91.1%)	
Noroxycodone:	13 (12.9%)	
Zolpidem:	83 (82.2%)	
Other drugs/metabolites detected:	5 (5.0%)	
No drugs/metabolites detected utilizing confirmatory methods:	5 (5.0%)	

Raw Data - Item 3

TABLE 3C

Item 3 Raw Data - Oxycodone
Preparation concentration: 180 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
298NAY	157.00		157.00
37FPVZ	157.60		157.60
38RRED	153.30	168.60	161.00
3GGDKC	193.20		193.20
3T9682	140.70		140.70
4E7RC2	167.10		167.10
4RWPDZ	141.88		141.90
6XECMV	159.80		159.80
76AJXN	141.57		141.60
8M4U34	164.00	164.50	164.30
8ZXBUP	124.16		124.20
9E9B2Z	144.23		144.20
9PPZZ6	141.08		141.10
A6Y7QU	117.28		117.30
AKRVLR	154.77		154.80
AZRFNN	131.57		131.60
B7QJQR	148.18		148.20
C6CHGY	152.00		152.00
CRMHQW	176.80	174.60	175.70
EKYJ6F	197.00		197.00
F2JM9M	155.32		155.30
FGXQUH	134.18		134.20
FKX2QH	164.61		164.60
FZPYPR	156.05		156.00

TABLE 3C: Raw Data - Item 3
Item 3 Raw Data - Oxycodone
Preparation concentration: 180 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
GMWUXL	146.58		146.60
GXDQUC	198.00		198.00
GYAY4G	164.06	163.40	163.70
H6RMHJ	158.89		158.90
HMAQ3Q	179.86		179.90
KGZ7UB	171.94		171.90
L8P69B	182.75	177.70	180.20
LFFUPB	155.00	141.00	148.00
M2UYQQ	145.00		145.00
M87K2H	172.34		172.30
MYTQLF	148.44		148.40
NUQDEG	162.91		162.90
NZ33ZB	168.00		168.00
P4UMJK	147.27		147.30
Q9M7ZA	167.90		167.90
QEAYAN	144.83	139.70	142.30
QKDZAH	120.77		120.80
QP9RHE	134.00	168.00	151.00
R3CCK6	150.18		150.20
RZAGYF	152.47		152.50
T9WUD7	152.30	165.70	159.00
THZAY6	120.60		120.60
TTHRRB	154.91	137.70	146.30
V66K9X	175.72		175.70
VKLHDX	167.00		167.00

TABLE 3C: Raw Data - Item 3
Item 3 Raw Data - Oxycodone
Preparation concentration: 180 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
W2K8R8	148.77	161.50	155.10
WC7ENB	153.00	153.00	153.00
XLKQED	151.00		151.00
XQJ434	149.94		149.90
XRR4EX			
XZ4HWT	220.00		220.00 X
YCCHBX	149.00	145.00	147.00
ZGPHAB	165.37		165.40

Statistical Analysis for Item 3 - Oxycodone			
Grand Mean	155.383	Number of Participants Included	55
Standard Deviation	17.3560	Number of Participants Excluded	1
			Number of Participants without Raw Data or Data that was not reported in ng/mL

TABLE 3C: Raw Data - Item 3
Item 3 Raw Data - Noroxycodone
Preparation concentration: 50 ng/mL

WebCode	List of Raw Data determinations (ng/mL)	
4E7RC2	47.010	
8M4U34	30.250	41.100
NUQDEG	44.896	
P4UMJK	43.990	
VKLHDX	46.000	
WC7ENB	27.000	39.000

Statistical Analysis for Item 3 - Noroxycodone

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

TABLE 3C: Raw Data - Item 3

Item 3 Raw Data - Zolpidem
Preparation concentration: 60 ng/mL

WebCode	List of Raw Data determinations (ng/mL)	Participant Mean
3GGDKC	53.610	53.610
3T9682		
4E7RC2	58.980	58.980
4RWPDZ	53.106	53.110
6T6Y4C	56.000	56.000
76AJXN	56.280	56.280
8M4U34	59.550 60.200	59.880
9PPZZ6	58.770	58.770
A6Y7QU	44.296	44.300
AZRFNN	53.511	53.510
C6CHGY	61.000	61.000
CRMHQW	59.240 58.600	58.920
EKYJ6F	68.000	68.000
FGXQUH	44.790	44.790
FKX2QH	49.000	49.000
FZPYPR	58.119	58.120
GXDQUC	65.000	65.000
GYAY4G	60.170 57.070	58.620
HMAQ3Q	60.510	60.510
KGZ7UB	65.513	65.510
LFFUPB	90.000	90.000 X
M87K2H	54.675	54.680
NUQDEG	57.395	57.400
NZ33ZB	57.800 59.400	58.600
P4UMJK	61.340	61.340

TABLE 3C: Raw Data - Item 3

Item 3 Raw Data - Zolpidem
Preparation concentration: 60 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		Participant Mean
QP9RHE	53.000	58.000	55.500
R3CCK6	35.116		35.120 X
RZAGYF	58.519		58.520
T9WUD7	60.960	61.800	61.380
THZAY6	56.000		56.000
TTHRRB	46.375		46.380
V66K9X	66.450		66.450
VKLHDX	70.000		70.000
W2K8R8	45.358		45.360
WC7ENB	58.000	61.000	59.500
XLKQED	60.000		60.000
XRR4EX			
XZ4HWT	66.000		66.000
YCCHBX	55.000	56.000	55.500
ZGPHAB			

Statistical Analysis for Item 3 - Zolpidem

Grand Mean	57.614	Number of Participants Included	35	Number of Participants without Raw Data or Data that was not reported in ng/mL	3
Standard Deviation	6.3413	Number of Participants Excluded	2		

Reporting Procedures - Item 3

TABLE 3D - Item 3

WebCode	Quantitative Reporting Procedures <i>If quantitative analysis was performed, the reported concentrations are:</i>
298NAY	A single determination.
37FPVZ	A single determination.
38RRED	The mean of duplicate/several determinations.
3T9682	A single determination.
4E7RC2	A single determination.
4RWPDZ	A single determination.
6T6Y4C	A single determination.
6XECMV	A single determination.
76AJXN	A single determination.
7QP26K	A single determination.
8M4U34	The mean of duplicate/several determinations.
8ZXBUP	A single determination.
9E9B2Z	A single determination.
9PPZZ6	A single determination.
A6Y7QU	A single determination.
AKRVLR	A single determination.
AZRFNN	A single determination.
B7QJQR	A single determination.
C6CHGY	A single determination.
CRMHQW	Lowest of two values; screening was performed on a quantitative method
EKYJ6F	A single determination.
F2JM9M	A single determination.
FGXQUH	A single determination.
FKX2QH	A single determination.
FZPYPR	A single determination.
GMWUXL	A single determination.
GXDQUC	A single determination.
GYAY4G	A single determination.
HMAQ3Q	A single determination.
KGZ7UB	A single determination.
L8P69B	The mean of duplicate/several determinations.

TABLE 3D: Reporting Procedures - Item 3

Quantitative Reporting Procedures	
WebCode	<i>If quantitative analysis was performed, the reported concentrations are:</i>
LFFUPB	Zolpidem single determination, Oxycodone mean of duplicate
M2UYQQ	A single determination.
M87K2H	A single determination.
MYTQLF	A single determination.
NUQDEG	A single determination.
NZ33ZB	The mean of duplicate/several determinations.
P4UMJK	A single determination.
Q9M7ZA	A single determination.
QEAYAN	The mean of duplicate/several determinations.
QKDZAH	A single determination.
QP9RHE	The mean of duplicate/several determinations.
R3CCK6	A single determination.
RZAGYF	A single determination.
T9WUD7	The mean of duplicate/several determinations.
THZAY6	A single determination.
TTHRRB	A single determination.
V66K9X	A single determination.
VKLHDX	A single determination.
W2K8R8	A single determination.
WC7ENB	The mean of duplicate/several determinations.
XLKQED	A single determination.
XQJ434	A single determination.
XRR4EX	A single determination.
XZ4HWT	A single determination.
YCCHBX	The mean of duplicate/several determinations.
ZGPHAB	A single determination.

Response Summary for Item 3		Participants: 57
A single determination:	46	(80.7%)
The mean of duplicate/several determinations:	9	(15.8%)
Other:	2	(3.5%)

Methods of Analysis - Item 3

TABLE 3E - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
298NAY	Immunoassay GC/MS/MS	✓	✓	✓
2LFAUC	LC/MS/MS	✓	✓	
2LY3PU	LC/MS/MS	✓	✓	
33EL4D	Immunoassay	✓		
37FPVZ	LC/MS/MS GC/MS	✓	✓	
38RRED	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓
3GGDKC	LC/MS/MS GC/MS	✓ ✓	✓ ✓	✓ ✓
3M7V29	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
3T9682	HAMS LC/MS/MS GC/MS	✓	✓ ✓	
3VGY6L	Immunoassay GC/MS	✓ ✓	✓	
4E7RC2	LC/MS/MS	✓	✓	✓
4H8YTT	Immunoassay	✓		
4RWPDZ	LC-HRMS/MS GC/MS LC/MS/MS	✓	✓ ✓	✓ ✓
64H7XQ	Immunoassay	✓		
6BZRPA	Immunoassay	✓		
6T6Y4C	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓
6XECMV	Immunoassay GC/MS	✓	✓	
76AJXN	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓ ✓
7BYEJT	Immunoassay LC/MS/MS	✓	✓	
7CA4ZK	GC/MS		✓	
7HZFYM	LC/QTOF GC/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
7QP26K	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
8BT78K	Immunoassay	✓		
	GC/MS	✓	✓	
8C49UJ	LC/MS	✓		
	LC/MS/MS		✓	
8M4U34	Immunoassay	✓		
	LC-QTOF	✓	✓	
	LC/MS/MS		✓	✓
8X9Q6K	GC/MS		✓	
8YKJ29	GC/MS	✓	✓	
8ZXBUP	GC/MS		✓	
	LC/MS		✓	
	LC-HRAMS-MS	✓		
9E9B2Z	Immunoassay	✓		
	LC/MS/MS		✓	✓
9PPZZ6	LC/MS/MS	✓	✓	✓
9YJ7VR	Immunoassay	✓		
A6Y7QU	HRAMS	✓		
	GC/MS		✓	✓
	LC/MS/MS		✓	✓
AFGP3E	GC/MS	✓		
	LC/MS/MS	✓	✓	
AKRVLR	LC/MS/MS	✓		
	GC/MS		✓	✓
AZRFNN	LCHRAMS	✓	✓	
	GC/MS		✓	✓
	LC/MS/MS			✓
B7QJQR	LC/MS/MS	✓		
	GC/MS		✓	
BHGFP6	Immunoassay	✓		
	GC/MS	✓	✓	
BPMWGE	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
BUXZA2	Immunoassay	✓		
	GC/MS	✓	✓	
C6CHGY	Immunoassay	✓		
	LC/MS/MS		✓	✓
C8G6U3	GC/MS	✓	✓	
CRMHQW	LC/MS/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
DDYVWN	LC/MS/MS	✓		
	Immunoassay	✓		
DLR64Y	Immunoassay	✓		
	GC/MS	✓	✓	
	GC/NPD			✓
DVYFV	GC/MS		✓	
EDG4HX	Immunoassay	✓		
	GC/MS	✓	✓	
EKYJ6F	LC/MS/MS	✓	✓	✓
	GC/MS	✓		
F2JM9M	LC/MS/MS	✓		
	GC/MS		✓	✓
F7A4F8	Immunoassay	✓		
	GC/MS		✓	
FGXQUH	LC-HRMS/MS	✓		
	GC/MS		✓	✓
	LC/MS		✓	✓
FKX2QH	LC-HRMS/MS	✓		
	GC/MS		✓	✓
	LC/MS/MS		✓	✓
FZPYPR	Immunoassay	✓		
	LC/MS/MS		✓	✓
G2EMLR	LC-QTOF-MS	✓		
	GC/MS		✓	
GMWUXL	LC/MS/MS	✓		
	GC/MS		✓	✓
GP4YQA	GC/MS		✓	
GXDQUC	LC/MS/MS	✓	✓	✓
	GC/MS	✓		
GYAY4G	LC/MS/MS		✓	✓
	LC-QTOF-MS	✓		
H6RMHJ	LC/MS/MS	✓		
	GC/MS		✓	✓
HMAQ3Q	LC/MS/MS	✓	✓	
JUT9XD	Immunoassay	✓		
JVX2PQ	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
KGZ7UB	Immunoassay	✓		
	GC/MS	✓		
	LC/MS/MS	✓	✓	✓

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
KNHKV	Immunoassay GC/MS	✓	✓	
KRWFDD	Immunoassay GC/MS	✓	✓	
L8P69B	Immunoassay GC/MS LC/MS/MS	✓	✓	✓
LFFUPB	UPLC-QTOF-MS LC/MS/MS	✓		✓ ✓
LXJCVA	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
M2UYQQ	Immunoassay GC/MS GC/NPD &/or MS	✓ ✓	✓ ✓	✓
M87K2H	LC-HRAMS LC/MS/MS GC/MS	✓	✓ ✓	✓ ✓
MTKCW6	Immunoassay GC/MS	✓ ✓	✓	
MUW8FB	LC-TOF	✓	✓	
MYTQLF	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓	
NUQDEG	LC/MS/MS	✓	✓	✓
NZ33ZB	LC/MS/MS	✓	✓	✓
P4UMJK	LC/MS/MS	✓	✓	✓
PR33V3	GC/MS		✓	
PW9YF3	Immunoassay	✓		
Q9M7ZA	Immunoassay GC/MS/MS	✓	✓	✓
QEAYAN	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓
QHTZB2	GC/MS		✓	
QKDZAH	Immunoassay LC/MS/MS	✓	✓	✓
QP9RHE	Immunoassay LC/MS/MS	✓	✓	✓
R3CCK6	High resolution accurate mass GC/MS LC/MS/MS	✓	✓ ✓	✓ ✓

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
RAC2TV	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
RET3JA	Immunoassay	✓		
RF2CAL	Immunoassay	✓		
RZAGYF	Immunoassay	✓		
	LC/MS/MS		✓	✓
T9WUD7	LC/MS/MS		✓	✓
THZAY6	LC/MS		✓	✓
	GC/MS		✓	✓
	HRAMS	✓		
TTHRRB	Immunoassay	✓		
	LC/MS/MS	✓	✓	✓
	GC/MS		✓	✓
UBG99U	Immunoassay	✓		
	GC/MS	✓	✓	
V66K9X	LC-TOF-MS	✓		
	LC/MS		✓	✓
	LC/MS/MS		✓	✓
VKLHDX	LC/MS/MS	✓	✓	✓
W2K8R8	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS	✓	✓	
W6ZP3W	LC/MS/MS	✓	✓	
WC7ENB	QTOF	✓		
	LC/MS/MS		✓	✓
WM7NBZ	Immunoassay	✓		
	LC/Q-TOF MS		✓	
WQKN9R	Immunoassay	✓		
	LC-QTOF-MS	✓		
	LC/MS/MS	✓	✓	
	GC/MS	✓	✓	
XLKQED	HPLC-DAD	✓		
	GC/MS		✓	✓
XQJ434	LC/MS/MS	✓		
	GC/MS		✓	✓
XQZZTH	Immunoassay	✓		
XRR4EX	LC/MS/MS	✓	✓	✓
XZ4HWT	LC/MS/MS	✓		
	LC-HRMS		✓	
	LC/MS			✓

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
Y8JBUB	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
YCCHBX	LC/MS/MS		✓	✓
	LC-QTOF-MS	✓		
YDQRJX	Immunoassay	✓		
YGP3FX	GC/MS	✓	✓	
ZCA8W7	Immunoassay	✓		
ZCR2QP	LC/QTOF-MS	✓		
	GC/MS	✓	✓	
	LC/MS/MS		✓	
	Immunoassay	✓		
ZGPHAB	LC/MS/MS	✓		
	GC/MS		✓	✓
ZZYK2N	Immunoassay	✓		
	GC/MS	✓	✓	

Response Summary for Item 3		Participants: 111		
	Screening	Confirmatory	Quantitation	
Immunoassay:	55	0	0	
GC/MS:	21	62	19	
LC/MS:	1	4	4	
LC/MS/MS:	33	50	36	
Other:	25	8	4	

Additional Comments for Item 3

TABLE 3F

WebCode	Item Comments
298NAY	The ELISA immunoassay was used to screen for six classes of drugs: amphetamines, benzodiazepines, cannabinoids, cocaine, opiates and PCP. The opiates analysis was performed on the GC/MS/MS. The cut off is 10 ng/mL and the limit of detection is 5ng/mL. The internal standard used for Oxycodone was Oxycodone-D6. The compound was extracted by solid phase extraction targeting free, non-conjugated/non-protein bound compounds.
2LY3PU	Cut-off for oxycodone is 50 ng/mL and for zolpidem is 5 ng/mL.
33EL4D	The State Crime Laboratory is only able to confirm and quantitation THC and its metabolites and certain basic drugs (amphetamine, diphenhydramine, ketamine, LSD, MDMA, MDA, Mescaline, Methamphetamine, Phentermine, Ephedrine/Pseudoephedrine, Psilocyn).
38RRED	Confirmatory ISTD GC/MS: NPA and SKF. Qualitative opiates confirmatory test ISTD LC/MS/MS: morphine-d6, codeine-d6, hydrocodone-d6. Quant ISTD LC/MS/MS: Oxycodone-d6. 7 point linear curve with range from 10 to 1000 ng/mL. No dropped points. mean of duplicates is truncated, UOM is rounded.
3M7V29	Przepam as Internal Standard for Zolpidem analysis. Zolpidem - 10ng/mL method capability. Oxycodone-d6 as Internal Standard for Oxycodone analysis. Oxycodone - 10ng/mL method capability.
3T9682	Result for Zolpidem was lower than our lowest calibrator of 50 micrograms/liter. Will be reported as such. Mepivacaine used as internal standard.
3VGY6L	Promazine used as internal standard for GC/MS screen/confirmation.
4H8YTT	Opioids Immunoassay LOD: 10ng/mL (Target analyte Oxycodone). Oxycodone 1 Immunoassay LOD: 10ng/mL (Target analyte Oxycodone). Oxycodone 2 Immunoassay LOD: 10ng/mL (Target analyte Oxycodone). Zolpidem Immunoassay LOD: 10ng/mL.
4RWPDZ	oxycodone LOR: 6.2 µg/L. zolpidem LOR: 25 µg/L. IS: mepivacaine, mephobarbital, nalorphine.
64H7XQ	Oxycodone screening cut off is 10 ng/mL. Zolpidem screening cut off is 10 ng/mL.
6T6Y4C	Oxycodone confirmed by GC/MS (Qual Only). Zolpidem confirmed by LC/MC/MS (Quantitative).
6XECMV	ELISA was used to screen the sample. The sample was screened using Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids and Methamphetamine. Oxycodone-D6 was used as an internal standard with a limit of detection of 5 ng/mL.
7BYEJT	Confirmation for Zolpidem not performed due to lab capabilities.
7CA4ZK	The identification was made by Library. For real cases, it must be compared with the respective reference material.
8BT78K	Promazine used for Internal Standard. Nalorphine used for Internal Standard.
8C49UJ	Estazolam was used as an internal standard.
8M4U34	Also detected Acetaminophen, atenolol, citalopram, desmethylcitalopram, hydroxybupropion, and propranolol by LC-QTOF. These were not confirmed or quantitated. Oxycodone and noroxycodone LOQ 10ng/mL. Oxycodone D-3 IS. Noroxycodone reported as a semi-quant. Quantitation performed using a protein precipitation method. Zolpidem LOQ 50 ng/mL; Quantitation performed using a biotage SLE extraction.

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
9E9B2Z	Immunoassay cutoff concentrations (ng/ml). Methamphetamine 20 Amphetamines 20 Barbiturates 50 Benzodiazepines 10 Buprenorphine 1 Cannabinoids 10 Benzoyllecgonine 50 Dextromethorphan 5 Fentanyl 1 Zolpidem 10 Tramadol 5 TCA 25 Phencyclidine 5 Opioids 10 Opiates 10 Methadone 10 Meprobamate 100. Opiates, Opioids and Stimulants confirmation panel analysis ranges (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 6-Acetylmorphine 1.0 - 50 Benzoyllecgonine 20 – 2000 Cocaine 20 – 2000 Methamphetamine 20 – 2000 Amphetamine 20 – 2000 EDDP 20 – 2000 Methadone 20 – 2000 Oxymorphone 5.0 – 500
9YJ7VR	ELISA was used to screen the sample with Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids, and Methamphetamine. -[Initials] 06/10/2021
A6Y7QU	internal standard: mepivacaine and nalorphine (oxycodone quant).
AFGP3E	Trace amounts of noroxycodone was also detected.
AZRFNN	trace amounts of lidocaine, propranolol and citalopram were present in all specimens, which had to be confirmed as trace amounts prior to reporting results. internal standard: mepivacaine
C6CHGY	Oxycodone: Internal Standard: Oxycodone-d6. LOD/LOQ: 10ng/mL Zolpidem: Internal Standard: Zolpidem-d6. LOD/LOQ: 10ng/mL.
CRMHQW	Oxycodone-d6; Linear Range 5-250 ng/ml. Zolpidem-d6; Linear Range 5-250 ng/ml.
DLR64Y	zolpidem quantitated-quantitative value not reported
F2JM9M	Zolpidem was confirmed qualitatively using GC/MS. The internal standard used was proadifen (SKF). Oxycodone was confirmed using GC/MS. The internal standard used was Oxycodone-D6. The calibration range was 10-200ng/mL.
FGXQUH	Mepivacaine used as internal standard for zolpidem quantitation. Zolpidem <50 (is below our lowest calibrator of 50) limit of report = 25 ng/mL. Nalorphine used as internal standard for oxycodone quantitation.
FKX2QH	Mepivacaine was used as the internal standard for screening and quantitation of zolpidem. Nalorphine was used as internal standard for oxycodone quantitation. Zolpidem quantitation less than the lowest calibrator of 50 ng/mL (LOR=25 ng/mL)
FZPYPR	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine and zolpidem. Opiate confirmation panel includes 6-monoacetylmorphine, codeine, fentanyl, hydrocodone, hydromorphone, methadone, morphine, oxycodone, and oxymorphone. 6-MAM and fentanyl have a LOD of 0.5ng/ml and a LOQ of 1ng/ml. The remaining analytes have a LOD of 5ng/ml and a LOQ of 10ng/ml. The internal standard used with oxycodone is oxycodone-D3. Benzodiazepine confirmation panel includes alprazolam, diazepam, 7-aminoclonazepam, clonazepam, lorazepam, nordiazepam, oxazepam, temazepam, and zolpidem. LOD for the panel is 5ng/ml. LOQ for the panel is 10ng/ml. The internal standard used with zolpidem is zolpidem-D7.
GMWUXL	Zolpidem: Internal Standard used was Proadifen (SKF) and we do not report quantitation for this drug. Oxycodone: confirmatory & quantitative internal standard used oxycodone-D6
GYAY4G	Possible low level atenolol on screening (RT shift) but not detected on confirmation by LC-MS/MS (LOD = 0.125 mg/L). Citalopram/escitalopram not detected on quantitation/confirmation by LC-MS/MS (LOD = 25 ng/mL).
HMAQ3Q	Oxycodone LOQ 5ng/mL; ISTD Oxycodone-D6 Zolpidem LOQ 5ng/mL; ISTD Zolpidem-D6
JUT9XD	target zolpidem at 10 ng/ml, target oxycodone at 10 ng/ml
JVX2PQ	Internal Standard: Mepivacaine. Indications of Citalopram and Noroxycodone.

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
KGZ7UB	Istds= oxycodone-D3, diazepam-D5. LOQ= oxycodone 2 ng/mL, zolpidem 5 ng/mL.
KRWFD	Mixed standard of Hydrocodone, Hydromorphone, and Oxycodone used in GC/MS confirmation run of sample #3. Internal standards used in GC/MS confirmation run: Codeine-D3 and Morphine-D3. Additional screen performed by GC/MS scan (underivatized and derivatized sample #3) for additional controlled substances. Prazepam (100 ng/ul) was used as the internal standard.
LFFUPB	Screening: UPLC-QTOF MS (Waters). For UPLC-QTOF MS (Waters): Salting-out assisted extraction. Internal Standards: Cyclobarbitone, Prazepam & D3-Methadone. Quantitative Analysis for Oxycodone: Instrument: UPLC-TQD (Waters). Internal Standard: D6-Oxycodone. LOD for Oxycodone: 2 ng/mL. Quantitative Analysis for Zolpidem: Instrument: UPLC-QTOF MS (Waters). Salting-out assisted extraction. Internal Standards: Cyclobarbitone, Prazepam & D3-Methadone. LOD for Zolpidem: 5ng/mL.
LXJCVA	codiene-D3 is uses as internal standard
M2UYQQ	GC/NPD &/or MS used only to screen for basic drugs. Oxycodone screened using Immunoassay and confirmed/quantitated using GC/MS with D6-Oxycodone as the internal standard and an LOD of 0.025 ug/mL. Zolpidem screened and confirmed using GC/NPD &/or MS with Carbinoxamine as the internal standard and an LOD of 0.1 ug/mL.
M87K2H	Case was screened using LC/High Resolution Accurate Mass Spectrometry (LC-HRAMS).One quantitative result for zolpidem was outside the linear calibration range.
MTKCW6	Promazine ISTD for Screen Extraction. Nalorphine ISTD for Opiate Extraction.
PR33V3	Internal standard: flurazepam. The final extraction is derivatized with BSTFA and injected in GC-MS. Sample preparation: L/L extraction. LOD: 200 ng/mL.
PW9YF3	Screening only/no confirmation testing performed.
Q9M7ZA	This specimen screened negative for the following assays: benzodiazepines, cannabinoids, cocaine/metabolites, amphetamines, and phencyclidine. 2) The specimen was 'none detected' for the following compounds: oxymorphone, morphine, codeine, hydrocodone, hydromorphone, and 6-MAM. 3) The cutoff for oxycodone is 10ng/mL. 4) The internal standard used for oxycodone is oxycodone-d6.
QEAYAN	Confirmatory ISTD GC/MS: NPA and SKF. Qualitative opiates confirmatory test ISTD LC/MS/MS: morphine-d6, codeine-d6, hydrocodone-d6. Quant ISTD LC/MS/MS: Oxycodone-d6. 7 point linear curve with range from 10 to 1000 ng/mL. No dropped points. mean of duplicates is truncated, UOM is rounded.
QKDZAH	Analysis by immunoassay screening in whole blood for: Analyte (Cutoff). Meth /Amphetamines (20) Barbiturates (50) Benzodiazepines (10) Buprenorphine (1) Cannabinoids (10) Benzoylcegonine (50) Dextromethorphan (5) Fentanyl (1) Meprobamate (100) Methadone (10) Opiates (10) Opioids (10) Phencyclidine (5) TCA (25) Tramadol (5) Zolpidem (10). 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 Benzoylcegonine 20 – 2000
QP9RHE	our laboratory reports quantitative blood drug values however the law in our jurisdiction only requires "any amount" to be present

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
R3CCK6	Mepivacaine and nalorphine were the internal standards used for analyses. Citalopram was detected in very small amounts. Citalopram had a poor mass spectrum and therefore were not reported. The lowest calibrator for zolpidem quantitation analysis is 50 ng/mL. Only half of the specimen was sampled for the quantitation analysis of oxycodone, to assure quantitation on the calibration curve, yielding result of 75.09 ng/mL. The calculation adjusted gives the reported quantitation.
RET3JA	ELISA was used to screen the sample. The sample was screened using Immunalysis kits for Opiates, Benzodiazepines, PCP, Cocaine/BE, Cannabinoids and Methamphetamine. -[Initials] 05/18/2021
RF2CAL	Screening cut off limit: Randox Multistat: 10ng/mL. No confirmatory testing was performed. Only screening.
RZAGYF	ELISA screening panel includes: amphetamine, benzodiazepines, buprenorphine, cannabinoids, carisoprodol, cocaine and metabolites, fentanyl, methadone, methamphetamine, opiates, oxycodone/oxymorphone, phencyclidine, and zolpidem. Opiate confirmation panel includes 6-monoacetylmorphine, codeine, fentanyl, hydrocodone, hydromorphone, methadone, morphine, oxycodone, and oxymorphone. The following internal standards are used: 6-monoacetylmorphine D-3, codeine D-6, fentanyl D-5, hydrocodone D-6, hydromorphone D-3, methadone D-3, morphine D-3, oxycodone D-3, and oxymorphone D-3. 6-MAM and fentanyl have an LOD of 0.5 ng/mL and an LOQ of 1 ng/mL. The remaining analytes have an LOD of 5 ng/mL and an LOQ of 10 ng/mL. Confirmation/quantitation of zolpidem using zolpidem D-7 as internal standard. LOD for zolpidem is 5 ng/mL. LOQ for zolpidem is 10 ng/mL.
T9WUD7	Sample initially screened positive for oxycodone, noroxycodone, caffeine, and zolpidem using LC-QTOF. Laboratory does not quant noroxycodone and caffeine
TTHRRB	internal standards: mepivacaine, nalorphine, bze-d8, THC-d3, THC-OH-d3, THC-COOH-d9
VKLHDX	Oxycodone uses Oxycodone-D6 for an internal standard. Oxycodone has a calibration curve of 10 - 1000 ng/mL. Noroxycodone uses Oxycodone-D6 for an internal standard. Noroxycodone has a calibration curve of 10 - 1000 ng/mL. Zolpidem uses Zolpidem-D6 for an internal standard. Zolpidem has a calibration curve of 10 - 1000 ng/mL.
W2K8R8	lowest calibrator for zolpidem quantitation is 50 mcg/L (limit of report is 25 mcg/L)
WC7ENB	Zolpidem-D6 was used as the internal std. for the Zolpidem assay. The LOQ is 0.050 mg/L. Oxycodone-D3 was used as the internal std. for Oxycodone and Noroxycodone. The LOQ for both is 0.010 mg/L. We experience interference with Dihydrocodeine in our quantitation assay for Noroxycodone and therefore only report a value less than the calibrator higher than what is observed.
WQKN9R	Small amounts of Citalopram/Escitalopram and Hydroxybupropion detected in sample.
XQJ434	Quantitation is not given on the instrumentation used for confirmation analysis of Zolpidem.
XQZZTH	We currently do not have a confirmatory method for zolpidem or oxycodone/oxymorphone
XRR4EX	The zolpidem concentration was below the lower limit of quantitation (50 ng/mL) so that is how it was reported out. The Oxycodone concentration was above the upper limit of quantitation (100 ng/mL) and was reported out as such.
Y8JBUB	Mepivacaine used as internal standard.
YCCHBX	d3-oxycodone for oxycodone and d6-zolpidem for zolpidem
ZCA8W7	Opiates assay cut-off: 10 ng/mL. Oxycodone assay cut-off: 10 ng/mL.
ZGPHAB	GC/MS quantitation only on Oxycodone.
ZZYK2N	ELISA used for immunoassay testing. Prazepam used as internal standard for drug screen in blood on GC/MS that was used as screening and also as a confirmatory test for Zolpidem.

Additional Test Comments

TABLE 4

WebCode	Additional Comments
33EL4D	The State Crime Laboratory is only able to confirm and quantitation THC and its metabolites and certain basic drugs (amphetamine, diphenhydramine, ketamine, LSD, MDMA, MDA, Mescaline, Methamphetamine, Phentermine, Ephedrine/Pseudoephedrine, Psilocyn).
4E7RC2	samples were received and logged into our lab HQ on 4/29/21. Samples received in CDA lab on 5/5/21
64H7XQ	The analyst is not authorized to perform Zolpidem confirmatory/quantification testing.
DDYVWN	Confirmation testing was not performed on these samples.
DVYFYV	Low levels of Citalopram was found in each item. The question of whether Citalopram was spiked into the WBB or was Citalopram present in the WBB at trace levels and was not detected during the screening of the WBB arises.
FGXQUH	All test items contained the possibility of additional analytes of lidocaine, propranolol and citalopram; these analytes were not confirmed per instructions.
FKX2QH	Test item 1 contained the possibility of caffeine, lidocaine, citalopram and propranolol. Test item 2 contained the possibility caffeine, lidocaine, citalopram and propranolol. Test item 3 contained the possibility of citalopram. None of these analytes were confirmed per the CTS instructions.
JUT9XD	no confirmations performed
KGZ7UB	We detected OH-Bupropion, citalopram/escitalopram, and desmethyl citalopram/ desmethyl escitalopram in all three items. They were detected at very low levels (some above our LOQ- 10 ng/mL) , but based on the scope of testing were not reported.
LFFUPB	Traces of Atenolol & Salicylic acid were detected for all samples
M87K2H	If the blood used to prepare the test is already contains drugs, then please let examiners know so that they can ignore these drugs. Working to test for and confirm these matrix contamination drugs is not only stressful it is a waste of limited laboratory resources and public funds.
NUQDEG	Samples received into [City] lab on 5/4/2021. Samples received by lab system on 4/29/2021 then forwarded to [City] lab.
RF2CAL	Only a screening analysis was performed. No confirmatory testing was done.
RZ48Y4	No analysis was carried out for Test No 21-5661 blood drug analysis
WC7ENB	In all three specimens I observed by QTOF (model Sciex 5600) Atenolol, Citalopram/Escitalopram and Hydroxybupropion, all confirmable by our criteria (I am not reporting them because they were present in all three test specimens).
ZCR2QP	Small amounts of Citalopram/Escitalopram and Hydroxybupropion detected in all three cases via LC/QTOF-MS below method thresholds.

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 21-5661: Blood Drug Analysis

DATA MUST BE SUBMITTED BY **June 28, 2021, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: BKAACKN

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: A 43 year-old female was found unresponsive by her husband when he returned from work. The husband indicated that his wife had been depressed as she was suffering from chronic pain caused by a car accident. Blood samples were collected at autopsy.

Case 2: A 35 year-old male was pulled over for driving erratically. A Drug Recognition Expert arrived and noted that the individual was agitated, had an unsteady gait and poor coordination. The result of a breath alcohol test was 0.00%. Blood was collected 45 minutes later.

Case 3: A 27 year-old female at a party was seen slumped over on a couch. It appeared that she had vomited. She was roused by her friends and taken to the hospital. The victim was very drowsy and complained of nausea and a headache. Blood samples were collected at the hospital.

-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 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). 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: 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"/>

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: 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"/>

3-3). 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.

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)