


















AM 7 central file  
available upon request.

§

7/9/2018

P

**Worklist: 2550**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2018-2625	1	119986	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-2977	1	118198	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3061	1	118682	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-3263	2	120613	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1645	1	117575	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1672	1	117870	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1849	1	119992	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1852	1	120064	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1853	1	120178	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1873	1	120225	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1875	1	120238	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1890	1	120604	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1891	1	120607	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1892	1	120610	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1893	1	120621	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1894	1	120624	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-1903	1	120679	AM 25 Blood Multi-Drug Screen by LC-QQQ	

# AM# 25: Multi-Drug Screen in Blood by LC-MS/MS

Extraction Date: 07/12/18  
Plate lot#: 0515207

Analyst: Sarah Pickle  
Plate Expiration: 10/18/18

**Mobile phase A:** 10mM Amm Form  
0.5M Ammonium Hydroxide

**Mobile phase B:** 0.1% Formic Acid in MeOH  
Ethyl Acetate LC Methanol

**Blank Blood Lot:** 361331-1  
**LCMS-QQQ ID:** 59740

**Column:** Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist: Data Path Name: \_\_\_\_\_

## Urine Hydrolysis:

- 1. Pipette 250  $\mu$ L urine into a blank 96-well plate.
- 2. Pipette 200  $\mu$ L 0.1 M ammonium acetate buffer (pH5) into wells with urine samples.
- 3. Pipette 50  $\mu$ L of  $\beta$ -glucuronidase (Kura BG-100) to wells with urine.
- 4. Place on shaking incubator at approximately 60°C, 900 rpm for 180 minutes.

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette 250 $\mu$ L blood (calibrated pipette) Pipette ID: 3 in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette 250 $\mu$ L 0.5M ammonium hydroxide in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer 300 $\mu$ L of blood+base mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 067104*
- 8. Wait 5 minutes.
- 9. Add 900 $\mu$ L ethyl acetate.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add 900 $\mu$ L ethyl acetate.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 067103*
- 16. Reconstitute in 100 $\mu$ L 100% LC MeOH and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Open quantitation software and create a new quantitation batch.  
Batch Name: 071218 MDS and Urine SP Worklist 2550  
Worklist path: MDS P1 071218 compounds removed, MDS P2 071218 compounds removed
- 2. Make necessary changes to integration limits
- 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/3 the response of administrative control.

- ☒ 4. Did all QCs pass for each analyte? Y / N \_\_\_\_\_
- ☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Did not evaluate acetyl fentanyl due to low internal standard responses in samples. <sup>1</sup>  
Samples for urine method validation were run with this set of case samples.



# Idaho State Police Forensic Services

D

## AM #25 Blood Multi-Drug Screen by LCMS-QQQ

Analyst: Sarah Pickle  
Extraction Date: 07/12/18  
Worklist Number: 2550

<i>Reagent</i>	<i>Lot Number</i>	<i>Expiration Date</i>	<i>Date in Service</i>	<i>Date Out of Service</i>	<i>Initials</i>
ToxBox Benzo/Opiate Screening Plate	0515207	10/18/18			
Negative Blood	361331-1		05/25/18		
Negative Urine	POC062718		06/27/18		
Methanol External Control Solution	042618	04/26/19	04/26/18		
Blood External Control Solution	WS042618	04/26/19	04/26/18		
Urine External Controls	062818	06/28/19	06/28/18		
0.5M Ammonium Hydroxide	032918	09/29/18	03/29/18		
0.1 M Ammonium Acetate (pH 5)	062918	12/29/18	06/29/18		
Krua BG-100	4150	4/24/19	07/02/18		
Formic Acid (LCMS Grade)	095180B		11/15/17		
Water (LCMS Grade)	181370		6/21/18		
Methanol (LCMS Grade)	177145		04/11/18		
Ammonium Formate (LCMS Grade)	A0287238		01/30/17		
Ammonium Acetate (HPLC)	096256A		06/18/18		
Glacial Acetic Acid (LC/MS)	092788		06/05/10		
Ammonium Hydroxide (ACS grade or better)	053200		08/03/07		
Ethyl Acetate(ACS grade or better)	100362		06/26/17		
10mM Ammonium Formate in LCMS Water (Mobile Phase A)	071218		07/12/18		
0.1% Formic Acid in LCMS Methanol (Mobile Phase B)	05/07/18		05/07/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	070518		07/08/18		

**Methanol External Control Solution (Lot: 042618)**

*100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	177145	
Oxycodone	Cerilliant	FE01181701	March 2022
Diazepam	Cerilliant	FE05201602	June 2021
Metoprolol	Cerilliant	FN06091510	July 2020
Meperidine	Cerilliant	FE01271602	June 2021
Prepared:	04/26/18		
Prepared By:	Tamara Salazar		

Expires: 04/26/19

**Blood External Control Solution (Lot: WS042618)**

100 ul of methanol external control solution was added to 9900 ul of blood.

Component	Source	Source Lot Number
Negative Blood	Hemostat	361331-2
Methanol External Control Solution		042618
Prepared:	04/26/18	
Prepared by:	Tamara Salazar	
Expires:	04/26/19	

**Urine External Control Solution (Lot: WS062818)**

100 ul of methanol external control solution was added to 9900 ul of blood.

Component	Source	Source Lot Number
Negative Urine		POC062718
Methanol External Control Solution		042618
Prepared:	06/28/18	
Prepared by:	Sarah Pickle	
Expires:	06/28/19	

**0.5M Ammonium Hydroxide (Lot: 032918)**

Component	Source	Source Lot Number
Ammonium Hydroxide (ACS grade or better)	Fisher	053200
DI Water	-	-
Prepared:	03/29/18	
Prepared By:	Tamara Salazar	
Expires:	09/29/18	

**0.1M Ammonium Acetate (pH 5.0) (Lot: 062918)**

Component	Source	Source Lot Number
Ammonium Acetate	Fisher	096256A
Glacial Acetic Acid	Fisher	092788
DI Water	-	-
Prepared:	06/29/18	
Prepared By:	Tamara Salazar	
Expires:	12/29/18	

**10mM Ammonium Formate in LCMS Water (Mobile Phase A) (Lot: 071218)**

Component	Source	Source Lot Number
Ammonium Formate	Arcos Organics	A0287238
LCMS Water	Fisher	177528
Prepared:	07/12/18	
Prepared By:	Sarah Pickle	

**0.1% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 050718)**

Component	Source	Source Lot Number
Formic Acid	Fisher	095180B
MeOH (LCMS Grade)	Fisher	177145
Prepared:	05/07/18	
Prepared By:	Sarah Pickle	

**Needle Rinse (75% LCMS MeOH in LCMS Water)(Lot: 070518)**

Component	Source	Source Lot Number
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	177528
Prepared:	07/05/18	
Prepared By:	Tamara Salazar	

Compound Method			p1 cal 1a			p1 cal 1a Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results							
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.							
6-MAM	328.2 -> 165...	7/12/2018 12:50 P...	5.121	5309	911.34	328.2 -> 211...	7815	1451.22	6-MAM-D6	334.2 -> 165...	5.080	293984	6-MAM	328.2 -> 165...	7/12/2018 12:50 P...	5.121	5309	911.34	328.2 -> 211...	7815	1451.22	6-MAM-D6	334.2 -> 165...	5.080	293984
7-Aminoclonazepam	286.1 -> 121...	7/12/2018 12:50 P...	5.486	133485	28100.21	286.1 -> 222...	56436	5742.13	7-Aminoclonazepam-D4	290.1 -> 121...	5.474	396209	7-Aminoclonazepam	286.1 -> 121...	7/12/2018 12:50 P...	5.486	133485	28100.21	286.1 -> 222...	56436	5742.13	7-Aminoclonazepam-D4	290.1 -> 121...	5.474	396209
Benzylcgonine	290.1 -> 168...	7/12/2018 12:50 P...	5.289	128165	555.53	290.1 -> 105...	36976	6349.47	Benzylcgonine-D8	298.2 -> 171...	5.268	7289	Benzylcgonine	290.1 -> 168...	7/12/2018 12:50 P...	5.289	128165	555.53	290.1 -> 105...	36976	6349.47	Benzylcgonine-D8	298.2 -> 171...	5.268	7289
a-hydroxyvalprazolam	325.1 -> 297...	7/12/2018 12:50 P...	6.282	42758	6694.16	325.1 -> 215...	9521	1654.39	a-hydroxyvalprazolam-D5	330.1 -> 302...	6.261	241945	a-hydroxyvalprazolam	325.1 -> 297...	7/12/2018 12:50 P...	6.282	42758	6694.16	325.1 -> 215...	9521	1654.39	a-hydroxyvalprazolam-D5	330.1 -> 302...	6.261	241945
alpha-PVP	232.2 -> 91.0	7/12/2018 12:50 P...	5.687	426965	70179.88	232.2 -> 77.1	237474	649.84	alpha-PVP-d8	240.2 -> 91.1	5.665	3305022	alpha-PVP	232.2 -> 91.0	7/12/2018 12:50 P...	5.687	426965	70179.88	232.2 -> 77.1	237474	649.84	alpha-PVP-d8	240.2 -> 91.1	5.665	3305022
Alprazolam	309.1 -> 281...	7/12/2018 12:50 P...	6.368	476695	161625.42	309.1 -> 205...	177999	36807.32	Alprazolam-D5	314.1 -> 286...	6.346	2111079	Alprazolam	309.1 -> 281...	7/12/2018 12:50 P...	6.368	476695	161625.42	309.1 -> 205...	177999	36807.32	Alprazolam-D5	314.1 -> 286...	6.346	2111079
Amphetamine	136.1 -> 91.1	7/12/2018 12:50 P...	4.874	797990	102.50	136.1 -> 119...	156450	46.61	Amphetamine-D11	147.2 -> 130...	4.833	66566	Amphetamine	136.1 -> 91.1	7/12/2018 12:50 P...	4.874	797990	102.50	136.1 -> 119...	156450	46.61	Amphetamine-D11	147.2 -> 130...	4.833	66566
Cocaine	304.2 -> 182...	7/12/2018 12:50 P...	5.697	749196	132278.34	304.2 -> 105...	89919	13471.49	Cocaine-D3	307.2 -> 185...	5.676	1650030	Cocaine	304.2 -> 182...	7/12/2018 12:50 P...	5.697	749196	132278.34	304.2 -> 105...	89919	13471.49	Cocaine-D3	307.2 -> 185...	5.676	1650030
Bupropion	240.1 -> 184...	7/12/2018 12:50 P...	5.910	430619	30927.10	240.1 -> 131...	559376	Infinity	Bupropion-D9	249.2 -> 185...	5.889	803859	Bupropion	240.1 -> 184...	7/12/2018 12:50 P...	5.910	430619	30927.10	240.1 -> 131...	559376	Infinity	Bupropion-D9	249.2 -> 185...	5.889	803859
Carisoprodol	261.2 -> 176...	7/12/2018 12:50 P...	6.010	164483	47.15	261.2 -> 55.3	195179	19.74	Carisoprodol-D7	268.2 -> 183...	6.009	292144	Carisoprodol	261.2 -> 176...	7/12/2018 12:50 P...	6.010	164483	47.15	261.2 -> 55.3	195179	19.74	Carisoprodol-D7	268.2 -> 183...	6.009	292144
Citalopram	325.2 -> 109...	7/12/2018 12:50 P...	6.099	954950	108.04	325.2 -> 262...	225806	42050.80	Citalopram-D6	331.2 -> 109...	6.098	2090248	Citalopram	325.2 -> 109...	7/12/2018 12:50 P...	6.099	954950	108.04	325.2 -> 262...	225806	42050.80	Citalopram-D6	331.2 -> 109...	6.098	2090248
Clonazepam	316.1 -> 269...	7/12/2018 12:50 P...	6.224	95390	19844.20	316.1 -> 213...	18631	3526.08	Clonazepam-D4	320.1 -> 217...	6.202	97332	Clonazepam	316.1 -> 269...	7/12/2018 12:50 P...	6.224	95390	19844.20	316.1 -> 213...	18631	3526.08	Clonazepam-D4	320.1 -> 217...	6.202	97332
Codeline	300.2 -> 215...	7/12/2018 12:50 P...	5.023	48274	6902.53	300.2 -> 165...	33447	134.37	Codeline-D6	306.2 -> 218...	4.981	197161	Codeline	300.2 -> 215...	7/12/2018 12:50 P...	5.023	48274	6902.53	300.2 -> 165...	33447	134.37	Codeline-D6	306.2 -> 218...	4.981	197161
Cyclobenzaprine	276.2 -> 214...	7/12/2018 12:50 P...	6.455	543050	104774.23	276.2 -> 231...	126288	42666.06	Cyclobenzaprine-D3	279.2 -> 215...	6.434	2775366	Cyclobenzaprine	276.2 -> 214...	7/12/2018 12:50 P...	6.455	543050	104774.23	276.2 -> 231...	126288	42666.06	Cyclobenzaprine-D3	279.2 -> 215...	6.434	2775366
Dextromethorphan	272.2 -> 171...	7/12/2018 12:50 P...	6.171	570379	101645.25	272.2 -> 147...	597087	2510.50	Dextromethorphan-D3	275.2 -> 171...	6.171	2149707	Dextromethorphan	272.2 -> 171...	7/12/2018 12:50 P...	6.171	570379	101645.25	272.2 -> 147...	597087	2510.50	Dextromethorphan-D3	275.2 -> 171...	6.171	2149707
Dextropropofol	258.2 -> 157...	7/12/2018 12:50 P...	5.481	212966	49722.91	258.2 -> 133...	235483	18300.96	Dextropropofol-D3	261.2 -> 157...	5.480	1080624	Dextropropofol	258.2 -> 157...	7/12/2018 12:50 P...	5.481	212966	49722.91	258.2 -> 133...	235483	18300.96	Dextropropofol-D3	261.2 -> 157...	5.480	1080624
Diazepam	285.1 -> 193...	7/12/2018 12:50 P...	6.576	254206	211.35	285.1 -> 153...	406120	91523.64	Diazepam-D5	290.1 -> 198...	6.574	1145541	Diazepam	285.1 -> 193...	7/12/2018 12:50 P...	6.576	254206	211.35	285.1 -> 153...	406120	91523.64	Diazepam-D5	290.1 -> 198...	6.574	1145541
Dihydrocodeline	302.2 -> 198...	7/12/2018 12:50 P...	4.880	147585	230.22	302.2 -> 128...	95093	9355.44	Dihydrocodeline-D6	308.2 -> 202...	4.838	671166	Dihydrocodeline	302.2 -> 198...	7/12/2018 12:50 P...	4.880	147585	230.22	302.2 -> 128...	95093	9355.44	Dihydrocodeline-D6	308.2 -> 202...	4.838	671166
Diphenhydramine	256.2 -> 167...	7/12/2018 12:50 P...	6.071	1943707	183.85	256.2 -> 152...	414144	96.44	Diphenhydramine-D3	259.2 -> 167...	6.071	7704442	Diphenhydramine	256.2 -> 167...	7/12/2018 12:50 P...	6.071	1943707	183.85	256.2 -> 152...	414144	96.44	Diphenhydramine-D3	259.2 -> 167...	6.071	7704442
Doxylamine	271.2 -> 182...	7/12/2018 12:50 P...	5.723	526523	85759.65	271.2 -> 167...	988974	168010...	Doxylamine-D5	276.2 -> 187...	5.722	1219414	Doxylamine	271.2 -> 182...	7/12/2018 12:50 P...	5.723	526523	85759.65	271.2 -> 167...	988974	168010...	Doxylamine-D5	276.2 -> 187...	5.722	1219414
EDDP	279.2 -> 235...	7/12/2018 12:50 P...	6.108	1791258	241940.09	279.2 -> 250...	929741	959.63	EDDP-D3	282.2 -> 235...	6.108	734719	EDDP	279.2 -> 235...	7/12/2018 12:50 P...	6.108	1791258	241940.09	279.2 -> 250...	929741	959.63	EDDP-D3	282.2 -> 235...	6.108	734719
Fentanyl	337.2 -> 105...	7/12/2018 12:50 P...	6.301	66171	178.32	337.2 -> 188...	41435	7078.98	Fentanyl-D5	342.3 -> 105...	6.301	6223249	Fentanyl	337.2 -> 105...	7/12/2018 12:50 P...	6.301	66171	178.32	337.2 -> 188...	41435	7078.98	Fentanyl-D5	342.3 -> 105...	6.301	6223249
Fluoxetine	310.1 -> 44.3	7/12/2018 12:50 P...	6.307	1819219	427565.36	310.1 -> 148...	35001	113.72	Fluoxetine-D6	316.2 -> 44.3	6.305	7889889	Fluoxetine	310.1 -> 44.3	7/12/2018 12:50 P...	6.307	1819219	427565.36	310.1 -> 148...	35001	113.72	Fluoxetine-D6	316.2 -> 44.3	6.305	7889889
Hydrocodone	300.2 -> 198...	7/12/2018 12:50 P...	5.287	166284	16.99	300.2 -> 128...	120966	9.93	Hydrocodone-D6	306.2 -> 202...	5.225	1055047	Hydrocodone	300.2 -> 198...	7/12/2018 12:50 P...	5.287	166284	16.99	300.2 -> 128...	120966	9.93	Hydrocodone-D6	306.2 -> 202...	5.225	1055047
Hydromorphone	286.2 -> 184...	7/12/2018 12:50 P...	4.579	87877	27.36	286.2 -> 157...	115687	13.79	Hydromorphone-D6	292.2 -> 185...	4.517	401281	Hydromorphone	286.2 -> 184...	7/12/2018 12:50 P...	4.579	87877	27.36	286.2 -> 157...	115687	13.79	Hydromorphone-D6	292.2 -> 185...	4.517	401281
Ketamine	238.1 -> 125...	7/12/2018 12:50 P...	5.828	837085	121186.08	238.1 -> 220...	170497	24.49	Ketamine-D4	242.1 -> 129...	5.807	3292469	Ketamine	238.1 -> 125...	7/12/2018 12:50 P...	5.828	837085	121186.08	238.1 -> 220...	170497	24.49	Ketamine-D4	242.1 -> 129...	5.807	3292469
Meperidine	268.2 -> 116...	7/12/2018 12:50 P...	5.499	128704	22959.86	268.2 -> 56.3	138309	623.55	Meperidine-D7	268.2 -> 183...	6.009	292144	Meperidine	268.2 -> 116...	7/12/2018 12:50 P...	5.499	128704	22959.86	268.2 -> 56.3	138309	623.55	Meperidine-D7	268.2 -> 183...	6.009	292144
Mirtazapine	266.2 -> 195...	7/12/2018 12:50 P...	6.274	955867	3049.42	266.2 -> 72.3	880012	131204...	Carisoprodol-D7	268.2 -> 183...	6.009	292144	Mirtazapine	266.2 -> 195...	7/12/2018 12:50 P...	6.274	955867	3049.42	266.2 -> 72.3	880012	131204...	Carisoprodol-D7	268.2 -> 183...	6.009	292144
Mepramate	219.1 -> 158...	7/12/2018 12:50 P...	5.545	76365	Infinity	219.1 -> 97.1	17609	Infinity	Mepramate-D7	226.2 -> 165...	5.544	10888	Mepramate	219.1 -> 158...	7/12/2018 12:50 P...	5.545	76365	Infinity	219.1 -> 97.1	17609	Infinity	Mepramate-D7	226.2 -> 165...	5.544	10888
Methadone	310.2 -> 285...	7/12/2018 12:50 P...	6.428	1623159	4836.37	310.2 -> 105...	949771	177.33	Methadone-D9	319.3 -> 268...	6.426	6667482	Methadone	310.2 -> 285...	7/12/2018 12:50 P...	6.428	1623159	4836.37	310.2 -> 105...	949771	177.33	Methadone-D9	319.3 -> 268...	6.426	6667482
Methamphetamine	150.1 -> 91.1	7/12/2018 12:50 P...	5.035	479465	39.63	150.1 -> 119...	86544	Infinity	Methamphetamine-D11	161.2 -> 97.1	4.994	1553139	Methamphetamine	150.1 -> 91.1	7/12/2018 12:50 P...	5.035	479465	39.63	150.1 -> 119...	86544	Infinity	Methamphetamine-D11	161.2 -> 97.1	4.994	1553139
Morphine	286.2 -> 201...	7/12/2018 12:50 P...	4.257	24545	59.53	286.2 -> 165...	18769	48.40	Morphine-D6	292.2 -> 152...	4.215	51711	Morphine	286.2 -> 201...	7/12/2018 12:50 P...	4.257	24545	59.53	286.2 -> 165...	18769	48.40	Morphine-D6	292.2 -> 152...	4.215	51711
Norbuprenorphine	414.3 -> 101...	7/12/2018 12:50 P...	5.912	17288	5.94	414.3 -> 57.3	13828	1919.76	Norbuprenorphine-D3	417.3 ->															

Compound Method	Transition	Avg. Date/Time	RT	Resp.	S/N	MI	Qualifier 1 M...	Transition	Area	S/N	MI	ISTD Method	Transition	RT	Resp.
Venlafaxine	278.2 -> 58.3	7/12/2018 12:50 P...	5.844	1560449	85584.19		278.2 -> 260...	118162	157.09			Venlafaxine-D6	284.2 -> 64.3	5.843	3448681
Zolpidem	308.2 -> 235...	7/12/2018 12:50 P...	6.267	1634213	Infinity		308.2 -> 263...	565429	235885...			Zolpidem-D6	314.2 -> 235...	6.265	103211...
Mirtagynine	399.2 -> 174...	7/12/2018 12:50 P...	6.338	411851	81419.40		399.2 -> 238...	73078	11474.24			Quetiapine-D8	392.2 -> 226...	6.521	1782262

Compound Method		p1 external control		p1 external control Results		Qualifier 1 M...		Qualifier 1 Results		ISTD Method		ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.
6-MAMM	328.2 -> 165...	7/12/2018 1:29 P...					328.2 -> 211...				6-MAMM-D6	334.2 -> 165...	5.080	243119
7-amitriclonazepam	286.1 -> 121...	7/12/2018 1:29 P...					286.1 -> 222...				7-Amitriclonazepam-D4	290.1 -> 121...	5.474	422705
Benzoyllecgonine	290.1 -> 168...	7/12/2018 1:29 P...					290.1 -> 105...				Benzoyllecgonine-D8	298.2 -> 171...	5.288	7023
a-hydroxyalprazolam	325.1 -> 297...	7/12/2018 1:29 P...					325.1 -> 215...				a-hydroxyalprazolam-D5	330.1 -> 302...	6.261	221990
alpha-PVP	232.2 -> 91.0	7/12/2018 1:29 P...					232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5.665	3500595
Alprazolam	309.1 -> 281...	7/12/2018 1:29 P...					309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.346	2171346
Amphetamine	136.1 -> 91.1	7/12/2018 1:29 P...					136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4.792	63994
Cocaine	304.2 -> 182...	7/12/2018 1:29 P...					304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.676	1510743
Bupropion	240.1 -> 184...	7/12/2018 1:29 P...					240.1 -> 131...				Bupropion-D9	249.2 -> 185...	5.889	835086
Carisoprodol	261.2 -> 176...	7/12/2018 1:29 P...					261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	5.989	280500
Citalopram	325.2 -> 109...	7/12/2018 1:29 P...					325.2 -> 262...				Citalopram-D6	331.2 -> 109...	6.078	2119586
Clonazepam	316.1 -> 269...	7/12/2018 1:29 P...					316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.202	90173
Codeine	300.2 -> 215...	7/12/2018 1:29 P...	5.023	2424	634.44		300.2 -> 165...	1735	382.21		Codeine-D6	306.2 -> 218...	4.981	231422
Cyclobenzaprine	276.2 -> 214...	7/12/2018 1:29 P...					276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.434	2659429
Dextromethorphan	272.2 -> 171...	7/12/2018 1:29 P...					272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	6.171	2115183
Dextrophan	258.2 -> 157...	7/12/2018 1:29 P...					258.2 -> 133...				Dextrophan-D3	261.2 -> 157...	5.460	1141222
<b>Diazepam</b>	<b>285.1 -&gt; 193...</b>	<b>7/12/2018 1:29 P...</b>	<b>6.576</b>	<b>2829788</b>	<b>849205.92</b>		<b>285.1 -&gt; 153...</b>	<b>43669...</b>	<b>20050.69</b>		<b>Diazepam-D5</b>	<b>290.1 -&gt; 198...</b>	<b>6.574</b>	<b>1046177</b>
Dihydrocodeine	302.2 -> 198...	7/12/2018 1:29 P...					302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	4.838	641623
Diphenhydramine	256.2 -> 167...	7/12/2018 1:29 P...					256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	6.071	7354242
Doxylamine	271.2 -> 182...	7/12/2018 1:29 P...					271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.701	1166820
EDDP	279.2 -> 235...	7/12/2018 1:29 P...					279.2 -> 250...				EDDP-D3	282.2 -> 235...	6.108	834045
Fentanyl	337.2 -> 105...	7/12/2018 1:29 P...	<b>6.626</b>	12127	Infinity		337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	6.281	5971972
Fluoxetine	310.1 -> 44.3	7/12/2018 1:29 P...					310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.305	8453730
Hydrocodone	300.2 -> 198...	7/12/2018 1:29 P...					300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5.225	1068795
Hydromorphone	286.2 -> 184...	7/12/2018 1:29 P...					286.2 -> 157...				Hydromorphone-D6	292.2 -> 185...	4.517	397406
Ketamine	238.1 -> 125...	7/12/2018 1:29 P...					238.1 -> 220...				Ketamine-D4	242.1 -> 129...	5.807	3196379
<b>Metoprolol</b>	<b>268.2 -&gt; 116...</b>	<b>7/12/2018 1:29 P...</b>	<b>5.519</b>	<b>1405353</b>	<b>238763.71</b>		<b>268.2 -&gt; 56.3</b>	<b>14953...</b>	<b>5588.81</b>		<b>Carisoprodol-D7</b>	<b>268.2 -&gt; 183...</b>	<b>5.989</b>	<b>280500</b>
Mirtazapine	266.2 -> 195...	7/12/2018 1:29 P...					266.2 -> 72.3				Carisoprodol-D7	268.2 -> 183...	5.989	280500
Mepramate	219.1 -> 158...	7/12/2018 1:29 P...	<b>5.687</b>	10344	1.30		219.1 -> 97.1				Mepramate-D7	226.2 -> 165...	5.524	14526
Methadone	310.2 -> 265...	7/12/2018 1:29 P...					310.2 -> 105...				Methadone-D9	319.3 -> 268...	6.426	6306822
Methamphetamine	150.1 -> 91.1	7/12/2018 1:29 P...	5.096	77863	0.87		150.1 -> 119...				Methamphetamine-D11	161.2 -> 97.1	4.994	2021854
Morphine	286.2 -> 201...	7/12/2018 1:29 P...					286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.215	56046
Norbuprenorphine	414.3 -> 101...	7/12/2018 1:29 P...					414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	5.912	51435
Nordiazepam	271.1 -> 140...	7/12/2018 1:29 P...					271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6.415	302399
Nortentanyl	233.2 -> 84.2	7/12/2018 1:29 P...					233.2 -> 55.3				Nortentanyl-D5	238.2 -> 84.2	5.380	3753267
Norhydrocodone	286.2 -> 199...	7/12/2018 1:29 P...					286.2 -> 171...				Norhydrocodone-D3	289.2 -> 202...	5.005	369760
Noroxycodone	302.1 -> 284...	7/12/2018 1:29 P...					302.1 -> 186...				Noroxycodone-D3	305.2 -> 287...	4.920	847507
O-desmethyl-tramadol	250.2 -> 58.3	7/12/2018 1:29 P...					250.2 -> 42.3				O-desmethyl-tramadol...	256.2 -> 64.3	4.950	3600177
Oxazepam	287.1 -> 240...	7/12/2018 1:29 P...					287.1 -> 268...				Oxazepam-D5	292.1 -> 246...	6.248	247229
<b>Oxycodone</b>	<b>316.2 -&gt; 298...</b>	<b>7/12/2018 1:29 P...</b>	<b>5.061</b>	<b>4509785</b>	<b>123.45</b>		<b>316.2 -&gt; 241...</b>	<b>913985</b>	<b>210338...</b>		<b>Oxycodone-D6</b>	<b>322.2 -&gt; 304...</b>	<b>5.040</b>	<b>1446781</b>
Oxymorphone	302.1 -> 284...	7/12/2018 1:29 P...					302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.249	1031195
Phentermine	150.1 -> 65.2	7/12/2018 1:29 P...	5.096	16689	2.02		150.1 -> 133...				Phentermine-D5	155.2 -> 96.2	5.157	1765465
Promethazine	285.1 -> 86.2	7/12/2018 1:29 P...					285.1 -> 71.3				Promethazine-D3	288.2 -> 89.2	6.492	7536576
Quetiapine	384.2 -> 253...	7/12/2018 1:29 P...					384.2 -> 221...				Quetiapine-D8	392.2 -> 226...	6.501	1774595
Setraline	306.1 -> 158...	7/12/2018 1:29 P...					306.1 -> 275...				Setraline-D3	309.1 -> 275...	6.672	3182594
Temazepam	301.1 -> 255...	7/12/2018 1:29 P...					301.1 -> 283...				Temazepam-D5	306.1 -> 260...	6.389	2527714
Tramadol	264.2 -> 58.3	7/12/2018 1:29 P...					264.2 -> 43.3				Tramadol-13C-D3	268.2 -> 58.3	5.499	7701250
Trazodone	372.2 -> 176...	7/12/2018 1:29 P...					372.2 -> 148...				Trazodone-D6	378.2 -> 182...	6.685	5929983



Compound Name	Method	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Qualifier 1	Transition	Area	S/N	MI	Qualifier 1	Method	Transition	RT	Resp.
Venlafaxine		278.2 -> 58.3	7/12/2018 1:29 P...						278.2 -> 260..					Venlafaxine-D6	284.2 -> 64.3	5.843	3207478
Zolpidem		308.2 -> 235...	7/12/2018 1:29 P...						308.2 -> 263..					Zolpidem-D6	314.2 -> 235...	6.265	101064...
Mirtagyrine		399.2 -> 174...	7/12/2018 1:29 P...						399.2 -> 238..					Quetiapine-D8	392.2 -> 226...	6.501	1774595

2

Compound Method		p1 negative			p1 negative Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.		
6-MAM	328.2 -> 165...	7/12/2018 1:10 PM					328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5.080	291786		
7-Aminoclonazepam	286.1 -> 121...	7/12/2018 1:10 PM					286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.474	482472		
Benzylecgonine	290.1 -> 168...	7/12/2018 1:10 PM					290.1 -> 105...				Benzylecgonine-D8	298.2 -> 171...	5.268	2993		
a-hydroxyvalprazolam	325.1 -> 297...	7/12/2018 1:10 PM					325.1 -> 215...				a-hydroxyvalprazolam-D5	330.1 -> 302...	6.261	234994		
alpha-PVP	232.2 -> 91.0	7/12/2018 1:10 PM	5.380	1409	26.56		232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5.665	3325158		
Alprazolam	309.1 -> 281...	7/12/2018 1:10 PM					309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.346	2247010		
Amphetamine	136.1 -> 91.1	7/12/2018 1:10 PM	4.894	152489	13.32		136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4.813	59508		
Cocaine	304.2 -> 182...	7/12/2018 1:10 PM					304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.676	1582525		
Bupropion	240.1 -> 184...	7/12/2018 1:10 PM					240.1 -> 131...				Bupropion-D9	249.2 -> 185...	5.889	828370		
Carisoprodol	261.2 -> 176...	7/12/2018 1:10 PM					261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	6.009	289395		
Citalopram	325.2 -> 109...	7/12/2018 1:10 PM	6.018	6149	Infinity		325.2 -> 262...				Citalopram-D6	331.2 -> 109...	6.098	2134506		
Clonazepam	316.1 -> 269...	7/12/2018 1:10 PM					316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.202	74083		
Codeine	300.2 -> 215...	7/12/2018 1:10 PM	4.697	1004	409.53		300.2 -> 165...				Codeine-D6	306.2 -> 218...	5.001	202317		
Cyclobenzaprine	276.2 -> 214...	7/12/2018 1:10 PM					276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.434	2796391		
Dextromethorphan	272.2 -> 171...	7/12/2018 1:10 PM					272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	6.171	2054491		
Dextrophan	258.2 -> 157...	7/12/2018 1:10 PM					258.2 -> 133...				Dextrophan-D3	261.2 -> 157...	5.480	1098593		
Diazepam	285.1 -> 193...	7/12/2018 1:10 PM					285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.574	1122404		
Dihydrocodeine	302.2 -> 198...	7/12/2018 1:10 PM					302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	4.858	636874		
Diphenhydramine	256.2 -> 167...	7/12/2018 1:10 PM					256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	6.071	7527136		
Doxylamine	271.2 -> 182...	7/12/2018 1:10 PM					271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.722	1272500		
EDDP	279.2 -> 235...	7/12/2018 1:10 PM					279.2 -> 250...				EDDP-D3	282.2 -> 235...	6.108	734724		
Fentanyl	337.2 -> 105...	7/12/2018 1:10 PM					337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	6.281	6102194		
Fluoxetine	310.1 -> 44.3	7/12/2018 1:10 PM					310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.305	8004298		
Hydrocodone	300.2 -> 198...	7/12/2018 1:10 PM					300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5.225	1077316		
Hydroxymorphone	286.2 -> 184...	7/12/2018 1:10 PM					286.2 -> 157...				Hydroxymorphone-D6	292.2 -> 185...	4.537	391346		
Ketamine	238.1 -> 125...	7/12/2018 1:10 PM					238.1 -> 220...				Ketamine-D4	242.1 -> 129...	5.807	3223079		
Meperolol	268.2 -> 116...	7/12/2018 1:10 PM					268.2 -> 56.3				Carisoprodol-D7	268.2 -> 183...	6.009	289395		
Mirtazapine	266.2 -> 195...	7/12/2018 1:10 PM					266.2 -> 72.3				Carisoprodol-D7	268.2 -> 183...	6.009	289395		
Meproramate	219.1 -> 158...	7/12/2018 1:10 PM					219.1 -> 97.1				Meproramate-D7	226.2 -> 165...	5.544	12275		
Methadone	310.2 -> 265...	7/12/2018 1:10 PM					310.2 -> 105...				Methadone-D9	319.3 -> 268...	6.426	6790381		
Methamphetamine	150.1 -> 91.1	7/12/2018 1:10 PM					150.1 -> 119...				Methamphetamine-D11	161.2 -> 97.1	5.014	1620065		
Morphine	286.2 -> 201...	7/12/2018 1:10 PM					286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.235	51118		
Norbuprenorphine	414.3 -> 101...	7/12/2018 1:10 PM					414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	5.912	54541		
Nordiazepam	271.1 -> 140...	7/12/2018 1:10 PM					271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6.415	334757		
Norfentanyl	233.2 -> 84.2	7/12/2018 1:10 PM					233.2 -> 55.3				Norfentanyl-D5	238.2 -> 84.2	5.380	3992961		
Norhydrocodone	286.2 -> 199...	7/12/2018 1:10 PM					286.2 -> 171...				Norhydrocodone-D3	289.2 -> 202...	5.025	357599		
Noroxycodone	302.1 -> 284...	7/12/2018 1:10 PM					302.1 -> 186...				Noroxycodone-D3	305.2 -> 287...	4.940	858592		
O-desmethyl-tramadol	250.2 -> 58.3	7/12/2018 1:10 PM	5.052	22594	2.67		250.2 -> 42.3				O-desmethyl-tramadol...	256.2 -> 64.3	4.970	3599097		
Oxazepam	287.1 -> 240...	7/12/2018 1:10 PM					287.1 -> 268...				Oxazepam-D5	292.1 -> 246...	6.248	279331		
Oxycodone	316.2 -> 298...	7/12/2018 1:10 PM					316.2 -> 241...				Oxycodone-D6	322.2 -> 304...	5.040	1676503		
Oxymorphone	302.1 -> 284...	7/12/2018 1:10 PM					302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.271	1140856		
Phentermine	150.1 -> 65.2	7/12/2018 1:10 PM					150.1 -> 133...				Phentermine-D5	155.2 -> 96.2	5.177	1522159		
Promethazine	285.1 -> 86.2	7/12/2018 1:10 PM					285.1 -> 71.3				Promethazine-D3	288.2 -> 89.2	6.492	7516826		
Quetiapine	384.2 -> 253...	7/12/2018 1:10 PM					384.2 -> 221...				Quetiapine-D8	392.2 -> 226...	6.521	1714997		
Seitaline	306.1 -> 158...	7/12/2018 1:10 PM					306.1 -> 275...				Seitaline-D3	309.1 -> 275...	6.672	3450903		
Temazepam	301.1 -> 255...	7/12/2018 1:10 PM					301.1 -> 283...				Temazepam-D5	306.1 -> 260...	6.389	2562955		
Tramadol	264.2 -> 58.3	7/12/2018 1:10 PM					264.2 -> 49.3				Tramadol-13C-D3	268.2 -> 58.3	5.499	7506289		
Trazodone	372.2 -> 176...	7/12/2018 1:10 PM	6.726	10437	4.00		372.2 -> 148...				Trazodone-D6	378.2 -> 182...	6.685	6580614		

Compound Method		p1 negative		p1 negative Results		Quantifier 1.M		Quantifier 1 Results:		STD Method		STD Results		
Name	Transition	Acq Date/Time	RT	Resp.	S/N	ML	Transition	Area	S/N	ML	Name	Transition	RT	Resp
Venlafaxine	278.2 -> 58.3	7/12/2018 1:10 PM				<input type="checkbox"/>	278.2 -> 260...			<input type="checkbox"/>	Venlafaxine-D6	284.2 -> 64.3	5.843	3335453
Zolpidem	308.2 -> 235...	7/12/2018 1:10 PM				<input type="checkbox"/>	308.2 -> 263...			<input type="checkbox"/>	Zolpidem-D6	314.2 -> 235...	6.265	102397...
Mirtazapine	399.2 -> 174...	7/12/2018 1:10 PM				<input type="checkbox"/>	399.2 -> 238...			<input type="checkbox"/>	Quetiapine-D8	392.2 -> 226...	6.521	1714997

*P*

Compound Method			p2 cal 1b			p2 cal 1b Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	7/12/2018 1:00 P...	5.623	474927	411.70	284.1 -> 93.2	42897	346.79	7-aminoflunitrazepam-...	291.2 -> 138...	5.623	2546672								
alpha-hydroxymidazolam	342.1 -> 324...	7/12/2018 1:00 P...	6.307	260453	112.16	342.1 -> 203...	133807	39816.90	alpha-hydroxymidazola...	346.1 -> 328...	6.306	1849686								
Amiripyrilone	278.2 -> 91.2	7/12/2018 1:00 P...	6.519	1140381	Infinity	278.2 -> 105...	527776	41.76	Amiripyrilone-D3	281.2 -> 91.2	6.517	3392167								
Acetyl Fentanyl	323.2 -> 105...	7/12/2018 1:00 P...	6.045	76694	18260.44	323.2 -> 188...	33899	13315.23	Acetyl Fentanyl-D5	323.2 -> 105...	6.045	76698								
Acetyl Norfentanyl	219.1 -> 84.2	7/12/2018 1:00 P...	4.899	40390	78.03	219.1 -> 56.3	17384	42.40	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.897	2412288								
Carbamazepine	237.1 -> 193...	7/12/2018 1:00 P...	5.997	195324	41.36	237.1 -> 194...	13478...	125.11	Carbamazepine-13C6	243.1 -> 200...	5.996	7713970								
Chlordiazepoxide	300.1 -> 227...	7/12/2018 1:00 P...	6.433	78850	23138.62	300.1 -> 282...	136280	16.61	Chlordiazepoxide-D5	305.1 -> 286...	6.433	1874154								
Sufentanil	387.2 -> 238...	7/12/2018 1:00 P...	6.667	156597	29428.27	387.2 -> 111...	105281	32974.68	Sufentanil-D5	392.2 -> 238...	6.666	6882879								
Desipramine	267.2 -> 72.3	7/12/2018 1:00 P...	6.399	1820114	215.87	267.2 -> 44.3	787691	281.31	Desipramine-D3	270.2 -> 75.3	6.379	102897...								
Doxepin	280.2 -> 107...	7/12/2018 1:00 P...	6.215	423385	85804.53	280.2 -> 77.2	220320	10.99	Doxepin-D3	283.2 -> 107...	6.193	1901814								
Estazolam	295.1 -> 267...	7/12/2018 1:00 P...	6.253	516422	Infinity	295.1 -> 205...	281057	65053.20	Estazolam-D5	300.1 -> 272...	6.251	3056567								
Flunitrazepam	314.1 -> 268...	7/12/2018 1:00 P...	6.290	517400	111.30	314.1 -> 239...	144785	744.64	Flunitrazepam-D7	321.1 -> 245...	6.269	196376								
Flurazepam	388.2 -> 315...	7/12/2018 1:00 P...	6.324	1069977	183.20	388.2 -> 317...	176082	130.11	Zopiclone-D4	393.1 -> 244...	6.242	711124								
Imipramine	281.2 -> 86.2	7/12/2018 1:00 P...	6.477	2173156	165.75	281.2 -> 58.3	12711...	Infinity	Imipramine-D3	284.2 -> 61.3	6.456	8186498								
Levamisole	205.1 -> 91.2	7/12/2018 1:00 P...	5.126	282908	13.84	205.1 -> 178...	321929	64.33	MDMA-D6	200.2 -> 166...	5.106	123289								
Maprotiline	278.2 -> 91.2	7/12/2018 1:00 P...	6.072	1002437	Infinity	278.2 -> 117...	12599	2660.20	Meperidine-D4	252.2 -> 224...	5.690	2039228								
MDA	180.1 -> 163...	7/12/2018 1:00 P...	5.006	158459	17.85	180.1 -> 105...	66700	19.55	MDA-D5	185.1 -> 168...	5.006	485397								
MDEA	208.1 -> 163...	7/12/2018 1:00 P...	5.288	830862	40.83	208.1 -> 105...	339376	147.10	MDEA-D6	214.2 -> 166...	5.288	3021514								
MDMA	194.1 -> 163...	7/12/2018 1:00 P...	5.127	432200	81.29	194.1 -> 105...	228517	46.50	MDMA-D6	200.2 -> 166...	5.106	123289								
Meperidine	248.2 -> 220...	7/12/2018 1:00 P...	5.691	305643	175111...	248.2 -> 174...	252691	526.39	Meperidine-D4	252.2 -> 224...	5.690	2039228								
Methylphenidate	234.2 -> 84.2	7/12/2018 1:00 P...	5.592	1698487	71.76	234.2 -> 56.3	303508	64.71	Meperidine-D4	252.2 -> 224...	5.690	2039228								
Midazolam	326.1 -> 223...	7/12/2018 1:00 P...	6.470	160043	278.84	326.1 -> 249...	223202	155133...	Midazolam-D4	330.1 -> 295...	6.469	2783573								
Normeperidine	234.1 -> 42.3	7/12/2018 1:00 P...	5.633	320139	54.62	234.1 -> 160...	189173	493.07	Normeperidine-D4	238.2 -> 164...	5.631	2269122								
Nortriptyline	264.2 -> 91.2	7/12/2018 1:00 P...	6.440	545717	Infinity	264.2 -> 233...	451056	Infinity	Nortriptyline-D3	267.2 -> 233...	6.439	1597914								
Phenazepam	349.0 -> 206...	7/12/2018 1:00 P...	6.346	130113	243.39	349.0 -> 183...	104958	25381.84	Phenazepam-D4	353.0 -> 183...	6.345	47146								
Phencyclidine	244.2 -> 86.2	7/12/2018 1:00 P...	5.955	484828	179.24	244.2 -> 91.1	532731	83.97	Phencyclidine-D5	249.2 -> 86.2	5.934	3684811								
Phenylethylamine	253.1 -> 104...	7/12/2018 1:00 P...	5.893	11207	4113.11	253.1 -> 182...	3763	Infinity	Phenylethylamine-D10	263.2 -> 192...	5.892	58435								
Pseudoephedrine	166.1 -> 148...	7/12/2018 1:00 P...	4.645	7371382	354.09	166.1 -> 133...	17378...	194.87	Pseudoephedrine-D3	169.1 -> 151...	4.624	2338942								
Tapentadol	222.2 -> 107...	7/12/2018 1:00 P...	5.470	699088	75.38	222.2 -> 121...	372987	59.23	Tapentadol-D3	225.2 -> 107...	5.470	3111891								
Zaleplon	306.1 -> 236...	7/12/2018 1:00 P...	6.108	481569	305.40	306.1 -> 264...	511838	110650...	Zaleplon-D4	310.2 -> 240...	6.108	1487239								
Zopiclone	389.1 -> 244...	7/12/2018 1:00 P...	6.243	62090	143.84	389.1 -> 216...	20037	5294.03	Zopiclone-D4	393.1 -> 244...	6.242	711124								

Did not evaluate acetyl fentanyl

Compound Method			p2 external control			p2 external control Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	7/12/2018 1:39 P...					284.1 -> 93.2				7-aminoflunitrazepam-D7	291.2 -> 138...	5.643	2454737						
alpha-hydroxymidazolam	342.1 -> 324...	7/12/2018 1:39 P...					342.1 -> 203...				alpha-hydroxymidazolam...	346.1 -> 328...	6.326	2002992						
Amtripyline	278.2 -> 91.2	7/12/2018 1:39 P...					278.2 -> 105...				Amtripyline-D3	281.2 -> 91.2	6.537	3125974						
Acetyl Fentanyl	323.2 -> 105...	7/12/2018 1:39 P...					323.2 -> 188...				Acetyl Fentanyl-D5	323.2 -> 105...	6.086	1037						
Acetyl Norfentanyl	219.1 -> 84.2	7/12/2018 1:39 P...					219.1 -> 56.3				Acetyl Norfentanyl-D5	224.2 -> 84.2	4.917	2415612						
Carbamazepine	237.1 -> 193...	7/12/2018 1:39 P...					237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.037	7536004						
Chlordiazepoxide	300.1 -> 227...	7/12/2018 1:39 P...					300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286...	6.453	2117886						
Sufentanil	387.2 -> 238...	7/12/2018 1:39 P...					387.2 -> 111...				Sufentanil-D5	392.2 -> 238...	6.706	6169406						
Desipramine	267.2 -> 72.3	7/12/2018 1:39 P...					267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.419	105757...						
Doxepin	280.2 -> 107...	7/12/2018 1:39 P...					280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.233	2352286						
Estazolam	295.1 -> 267...	7/12/2018 1:39 P...					295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.272	3133681						
Flunitrazepam	314.1 -> 268...	7/12/2018 1:39 P...					314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.310	186451						
Flurazepam	388.2 -> 315...	7/12/2018 1:39 P...					388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.262	822636						
Imipramine	281.2 -> 86.2	7/12/2018 1:39 P...					281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.497	8154944						
Levamisole	205.1 -> 91.2	7/12/2018 1:39 P...					205.1 -> 178...				MDMA-D6	200.2 -> 166...	5.146	124997						
Maprotiline	278.2 -> 91.2	7/12/2018 1:39 P...					278.2 -> 117...				Meperidine-D4	252.2 -> 224...	5.711	1954522						
MDA	180.1 -> 163...	7/12/2018 1:39 P...					180.1 -> 105...				MDA-D5	185.1 -> 168...	5.026	470133						
MDEA	208.1 -> 163...	7/12/2018 1:39 P...					208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.308	2875695						
MDMA	194.1 -> 163...	7/12/2018 1:39 P...					194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.146	124997						
Meperidine	248.2 -> 220...	7/12/2018 1:39 P...	5.732	3606609	366.46		248.2 -> 174...	31555...	777.31		Meperidine-D4	252.2 -> 224...	5.711	1954522						
Methylphenidate	234.2 -> 84.2	7/12/2018 1:39 P...					234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.711	1954522						
Midazolam	326.1 -> 223...	7/12/2018 1:39 P...					326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.489	2783335						
Normeperidine	234.1 -> 42.3	7/12/2018 1:39 P...	5.449	36540	12.05		234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.652	2297014						
Nortriptyline	264.2 -> 91.2	7/12/2018 1:39 P...					264.2 -> 233...				Nortriptyline-D3	267.2 -> 233...	6.460	3182669						
Phenazepam	349.0 -> 206...	7/12/2018 1:39 P...					349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.366	57571						
Phencyclidine	244.2 -> 86.2	7/12/2018 1:39 P...					244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.974	3797700						
Phenylethylamine	253.1 -> 104...	7/12/2018 1:39 P...					253.1 -> 182...				Phenylethylamine-D5	263.2 -> 192...	5.912	52189						
Pseudoephedrine	166.1 -> 148...	7/12/2018 1:39 P...					166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.624	2955645						
Tapentadol	222.2 -> 107...	7/12/2018 1:39 P...					222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.490	2923181						
Zaleplon	306.1 -> 236...	7/12/2018 1:39 P...					306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.128	1510896						
Zopiclone	389.1 -> 244...	7/12/2018 1:39 P...					389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.262	822636						

Compound Method			p2 negative			p2 negative Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	ML	Qualifier 1 M...	Area	S/N	ML	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	7/12/2018 1:19 PM	5.827	12388	6344.91		284.1 -> 93.2				7-aminoflunitrazepam-D7	291.2 -> 138...	5.643	2490294
alpha-hydroxymidazolam	342.1 -> 324...	7/12/2018 1:19 PM					342.1 -> 203				alpha-hydroxymidazolam-...	346.1 -> 328...	6.326	2043810
Amtripyline	278.2 -> 91.2	7/12/2018 1:19 PM					278.2 -> 105...				Amtripyline-D3	281.2 -> 91.2	6.557	3020928
Acetyl Fentanyl	323.2 -> 105...	7/12/2018 1:19 PM					323.2 -> 188...				Acetyl Fentanyl-D5	323.2 -> 105...	6.289	269
Acetyl Norfentanyl	219.1 -> 84.2	7/12/2018 1:19 PM					219.1 -> 56.3				Acetyl Norfentanyl-D5	224.2 -> 84.2	4.917	2498235
Carbamazepine	237.1 -> 193...	7/12/2018 1:19 PM					237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.057	7642465
Chlordiazepoxide	300.1 -> 227...	7/12/2018 1:19 PM					300.1 -> 282...				Chlordiazepoxide-D5	306.1 -> 286...	6.453	2174817
Sufentanil	387.2 -> 238...	7/12/2018 1:19 PM					387.2 -> 111...				Sufentanil-D5	392.2 -> 238...	6.686	7031920
Desipramine	267.2 -> 72.3	7/12/2018 1:19 PM					267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.419	1056648...
Doxepin	280.2 -> 107...	7/12/2018 1:19 PM					280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.233	2342058
Estazolam	295.1 -> 267...	7/12/2018 1:19 PM					295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.272	3218003
Flunitrazepam	314.1 -> 268...	7/12/2018 1:19 PM					314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.310	200382
Flurazepam	388.2 -> 315...	7/12/2018 1:19 PM					388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.262	776176
Imipramine	281.2 -> 86.2	7/12/2018 1:19 PM					281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.497	8263123
Levamisole	205.1 -> 91.2	7/12/2018 1:19 PM					205.1 -> 178...				MDMA-D6	200.2 -> 166...	5.126	136818
Maprotiline	278.2 -> 91.2	7/12/2018 1:19 PM					278.2 -> 117...				Meperidine-D4	252.2 -> 224...	5.711	1998698
MDA	180.1 -> 163...	7/12/2018 1:19 PM					180.1 -> 105...				MDA-D5	185.1 -> 168...	5.026	493688
MDEA	208.1 -> 163...	7/12/2018 1:19 PM					208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.308	3002032
MDMA	194.1 -> 163...	7/12/2018 1:19 PM					194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.126	136818
Meperidine	248.2 -> 220...	7/12/2018 1:19 PM					248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.711	1998698
Methylphenidate	234.2 -> 84.2	7/12/2018 1:19 PM					234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.711	1998698
Midazolam	326.1 -> 223...	7/12/2018 1:19 PM					326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.489	2924677
Normeperidine	234.1 -> 42.3	7/12/2018 1:19 PM					234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.652	2235100
Nortriptyline	264.2 -> 91.2	7/12/2018 1:19 PM					264.2 -> 233...				Nortriptyline-D3	267.2 -> 233...	6.460	2641286
Phenazepam	349.0 -> 206...	7/12/2018 1:19 PM					349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.366	56088
Phencyclidine	244.2 -> 86.2	7/12/2018 1:19 PM					244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.974	3557561
Phenylethanol	253.1 -> 104...	7/12/2018 1:19 PM					253.1 -> 182...				Phenylethanol-D10	263.2 -> 192...	5.932	60356
Pseudoephedrine	166.1 -> 148...	7/12/2018 1:19 PM					166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.644	2650929
Tapentadol	222.2 -> 107...	7/12/2018 1:19 PM					222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.490	3172358
Zaleplon	306.1 -> 236...	7/12/2018 1:19 PM					306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.128	1556392
Zopiclone	389.1 -> 244...	7/12/2018 1:19 PM					389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.262	776176