























Worklist: 2321

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-0788	1	107663	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-0834	1	107905	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-1093	1	109236	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-1195	2	110822	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-1198	1	109661	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-1223	1	109773	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-1364	5	111024	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-1416	1	110609	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2018-1659	3	111862	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0802	1	110155	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0804	1	110159	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0843	1	110396	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0844	1	110399	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0845	1	110402	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0846	1	110405	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0856	1	110565	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0877	2	110763	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0878	2	110770	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0888	1	110828	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0889	1	110831	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0906	1	110932	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0907	1	110941	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2018-0931	1	111027	AM 25 Blood Multi-Drug Screen by LC-QQQ	

**Worklist: 2321**

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<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
P2018-0957	1	111532	AM 25 Blood Multi-Drug Screen by LC-QQQ
P2018-0998	1	111859	AM 25 Blood Multi-Drug Screen by LC-QQQ



# Multi-Drug Screen in Blood by LC-MS/MS

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Extraction Date: 04/27/18

Analyst: Tamara Salazar

Plate lot#:0515207

Plate Expiration: 10/18/18

Mobile phase A: 10mM Ammonium Formate  
0.5M Ammonium Hydroxide

Mobile phase B 0.1% Formic acid in MeOH  
Ethyl Acetate

Blank Blood Lot: 361331-2

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

LCMS-QQQ ID: 59740

## 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:

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL 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 ID067105*
- 4. Pipette **250µL 0.5M ammonium hydroxide** buffer in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).  
**(Load at 85-100 PSI- Selector to the right)** Manifold ID: 067104  
Wait 5 minutes
- 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- 9. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID067103*
- 13. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## POST- ANALYTIC

- 1. Create batch and process data.  
Worklist path: *C:\MassHunter\Data\2018\MD Screen\042718 MDS TS SP*  
Batch Name: *MDS P1 wklst 2321 TS.batch.bin*  
*MDS P2 wklst 2321 TS.batch.bin*
- 2. 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. > 1/5 the response of administrative control.
- 3. Did all QCs pass for each analyte? Y / N \_\_\_\_\_
- 4. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

## COMMENTS:

*Not evaluated: Norhydrocodone—Qualifier peak missing*

*Levamisole—Peak not acquired*

*Protriptyline—Qualifier peak missing*

Due to missing internal standard peaks, Morphine was not evaluated for case numbers: M2018-1093-1, M2018-1223-1, M2018-1416-1, and M2018-1659-3.

Extraction was originally performed on 04/10/17. Due to instrumentation failure, the data was unusable. The samples were re-extracted on 04/27/18 after the instrument was repaired.

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# Idaho State Police Forensic Services

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

Analyst: Tamara Salazar  
Extraction Date: 4/27/18  
Worklist Number: 2321

<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	361331-2		12/27/17		
Methanol External Control Solution	042618	04/26/19	04/26/18		
Blood External Control Solution	WS042618	04/26/19	04/26/18		
0.5M Ammonium Hydroxide	032418	09/29/18	03/29/18		
Formic Acid (LCMS Grade)	095180B		11/15/17		
Water (LCMS Grade)	<del>177529</del> 177528 TS		03/05/18		
Methanol (LCMS Grade)	177145		04/11/18		
Ammonium Formate (LCMS Grade)	A0287238		01/30/17		
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)	021518		03/08/18		
0.1% Formic Acid in LCMS Methanol (Mobile Phase B)	041018		04/10/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	042418		04/24/18		

**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		

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

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

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

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

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

**10mM Ammonium Formate in LCMS Water (Mobile Phase A) (Lot: 030818)**

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Ammonium Formate	Arcos Organics	A0287238
LCMS Water	Fisher	<del>102501</del> 177528 TS
Prepared:	03/08/18	
Prepared By:	Tamara Salazar	

**0.1% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 041018)**

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Formic Acid	Fisher	095180B
MeOH (LCMS Grade)	Fisher	177145
Prepared:	04/10/18	
Prepared By:	Tamara Salazar	

**Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 042418)**

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
MeOH (LCMS Grade)	Fisher	172516
Water (LCMS Grade)	Fisher	177528
Prepared:	04/24/18	
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	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	MI	
6-MAM	328.2 -> 165...	4/27/2018 9:58 PM	5.347	1246	Infinity	17	328.2 -> 211...	627	Infinity	17	328.2 -> 211...	627	Infinity	17	6-MAM-D6	334.2 -> 165...	5.306	81280	17	
7-aminoclonazepam	286.1 -> 121...	4/27/2018 9:58 PM	5.415	4194	35.76	17	286.1 -> 222...	16840	53.51	17	286.1 -> 222...	16840	53.51	17	7-Aminoclonazepam-D4	290.1 -> 121...	5.415	144357	17	
Acetyl Fentanyl	323.2 -> 105...	4/27/2018 9:58 PM	5.835	12626	26.08	17	323.2 -> 188...	5390	23.24	17	323.2 -> 188...	5390	23.24	17	Acetyl Fentanyl-D5	328.2 -> 105...	5.814	14240...	17	
Acetyl Norfentanyl	219.1 -> 84.2	4/27/2018 9:58 PM	4.954	11104	444.82	17	219.1 -> 56.3	3797	9.92	17	219.1 -> 56.3	3797	9.92	17	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.954	511858	17	
a-hydroxyalprazolam	325.1 -> 297...	4/27/2018 9:58 PM	6.180	15870	60.35	17	325.1 -> 215...	3273	8.48	17	325.1 -> 215...	3273	8.48	17	a-hydroxyalprazolam-D5	330.1 -> 302...	6.179	84743	17	
alpha-PVP	232.2 -> 91.0	4/27/2018 9:58 PM	5.565	78469	378.99	17	232.2 -> 77.1	56620	125.00	17	232.2 -> 77.1	56620	125.00	17	alpha-PVP-d8	240.2 -> 91.1	5.564	695703	17	
Alprazolam	309.1 -> 281...	4/27/2018 9:58 PM	6.286	103539	25263.55	17	309.1 -> 205...	42803	13577...	17	309.1 -> 205...	42803	13577...	17	Alprazolam-D5	314.1 -> 286...	6.285	451981	17	
Amphetamine	136.1 -> 91.1	4/27/2018 9:58 PM	4.916	125929	Infinity	17	136.1 -> 119...	29409	Infinity	17	136.1 -> 119...	29409	Infinity	17	Amphetamine-D11	147.2 -> 130...	4.916	8523	17	
Bupropion	240.1 -> 184...	4/27/2018 9:58 PM	5.747	72231	1655.24	17	240.1 -> 131...	1003...	Infinity	17	240.1 -> 131...	1003...	Infinity	17	Bupropion-D9	249.2 -> 185...	5.726	143582	17	
Carisoprodol	261.2 -> 176...	4/27/2018 9:58 PM	5.969	14306	25.41	17	261.2 -> 55.3	50565	Infinity	17	261.2 -> 55.3	50565	Infinity	17	Carisoprodol-D7	268.2 -> 183...	5.928	95299	17	
Citalopram	325.2 -> 109...	4/27/2018 9:58 PM	5.936	182396	53427.28	17	325.2 -> 262...	40993	7114.83	17	325.2 -> 262...	40993	7114.83	17	Citalopram-D6	331.2 -> 109...	5.935	651877	17	
Clonazepam	316.1 -> 269...	4/27/2018 9:58 PM	6.142	44278	10518.67	17	316.1 -> 213...	7350	17.56	17	316.1 -> 213...	7350	17.56	17	Clonazepam-D4	320.1 -> 217...	6.121	52307	17	
Codeine	300.2 -> 215...	4/27/2018 9:58 PM	5.331	10219	33.03	17	300.2 -> 165...	13612	92.53	17	300.2 -> 165...	13612	92.53	17	Codeine-D6	306.2 -> 218...	5.268	50338	17	
Cyclobenzaprine	276.2 -> 214...	4/27/2018 9:58 PM	6.211	78008	16815.27	17	276.2 -> 231...	28354	73.62	17	276.2 -> 231...	28354	73.62	17	Cyclobenzaprine-D3	279.2 -> 215...	6.210	452435	17	
Dextromethorphan	272.2 -> 171...	4/27/2018 9:58 PM	5.988	86874	20457.81	17	272.2 -> 147...	86317	204.44	17	272.2 -> 147...	86317	204.44	17	Dextromethorphan-D3	275.2 -> 171...	5.988	287451	17	
Dextropropriphan	258.2 -> 157...	4/27/2018 9:58 PM	5.461	39977	7941.55	17	258.2 -> 133...	52428	152.32	17	258.2 -> 133...	52428	152.32	17	Dextropropriphan-D3	261.2 -> 157...	5.460	278799	17	
Diazepam	285.1 -> 193...	4/27/2018 9:58 PM	6.492	46462	Infinity	17	285.1 -> 153...	73592	289.82	17	285.1 -> 153...	73592	289.82	17	Diazepam-D5	290.1 -> 198...	6.491	210440	17	
Dihydrocodeine	302.2 -> 198...	4/27/2018 9:58 PM	5.106	16276	6258.88	17	302.2 -> 128...	22139	6905.80	17	302.2 -> 128...	22139	6905.80	17	Dihydrocodeine-D6	308.2 -> 202...	5.064	165823	17	
Diphenhydramine	256.2 -> 167...	4/27/2018 9:58 PM	5.929	347057	69052.03	17	256.2 -> 152...	87270	100.25	17	256.2 -> 152...	87270	100.25	17	Diphenhydramine-D3	259.2 -> 167...	5.909	15496...	17	
Doxylamine	271.2 -> 182...	4/27/2018 9:58 PM	5.602	123250	54.65	17	271.2 -> 167...	2020...	1116.75	17	271.2 -> 167...	2020...	1116.75	17	Doxylamine-D5	276.2 -> 187...	5.600	356315	17	
EDDP	279.2 -> 235...	4/27/2018 9:58 PM	5.966	344940	697.69	17	279.2 -> 250...	1793...	95.25	17	279.2 -> 250...	1793...	95.25	17	EDDP-D3	282.2 -> 235...	5.966	175167	17	
Fentanyl	337.2 -> 105...	4/27/2018 9:58 PM	6.016	12112	110.85	17	337.2 -> 188...	5845	20.02	17	337.2 -> 188...	5845	20.02	17	Fentanyl-D5	342.3 -> 105...	5.995	10976...	17	
Fluoxetine	310.1 -> 44.3	4/27/2018 9:58 PM	6.144	320708	Infinity	17	310.1 -> 148...	8251	104.58	17	310.1 -> 148...	8251	104.58	17	Fluoxetine-D6	316.2 -> 44.3	6.142	15629...	17	
Hydrocodone	300.2 -> 198...	4/27/2018 9:58 PM	5.495	30344	Infinity	17	300.2 -> 128...	16413	Infinity	17	300.2 -> 128...	16413	Infinity	17	Hydrocodone-D6	306.2 -> 202...	5.454	221434	17	
Hydromorphone	286.2 -> 184...	4/27/2018 9:58 PM	4.945	20300	28.29	17	286.2 -> 157...	25714	Infinity	17	286.2 -> 157...	25714	Infinity	17	Hydromorphone-D6	292.2 -> 185...	4.883	65090	17	
Ketamine	238.1 -> 125...	4/27/2018 9:58 PM	5.626	159644	177.08	17	238.1 -> 220...	28647	6.03	17	238.1 -> 220...	28647	6.03	17	Ketamine-D4	242.1 -> 129...	5.625	683179	17	
Meprobamate	219.1 -> 158...	4/27/2018 9:58 PM	5.485	26571	Infinity	17	219.1 -> 97.1	8744	26.28	17	219.1 -> 97.1	8744	26.28	17	Meprobamate-D7	226.2 -> 165...	5.464	11118	17	
Methadone	310.2 -> 265...	4/27/2018 9:58 PM	6.244	258963	Infinity	17	310.2 -> 105...	1674...	Infinity	17	310.2 -> 105...	1674...	Infinity	17	Methadone-D9	319.3 -> 268...	6.243	10434...	17	
Methamphetamine	150.1 -> 91.1	4/27/2018 9:58 PM	5.098	120772	92.22	17	150.1 -> 119...	17932	8.34	17	150.1 -> 119...	17932	8.34	17	Methamphetamine-D11	161.2 -> 97.1	5.057	153357	17	
Morphine	286.2 -> 201...	4/27/2018 9:58 PM	4.661	4572	25.06	17	286.2 -> 165...	4910	1345.49	17	286.2 -> 165...	4910	1345.49	17	Morphine-D6	292.2 -> 152...	4.539	721	17	
Naloxone	328.2 -> 309...	4/27/2018 9:58 PM	5.550	52386	10232.62	17	328.2 -> 211...	10045	2547.05	17	328.2 -> 211...	10045	2547.05	17	Naloxone-D5	333.2 -> 315...	5.549	112601	17	
Naltrexol	344.2 -> 326...	4/27/2018 9:58 PM	5.161	108427	600.31	17	344.2 -> 308...	26179	5395.90	17	344.2 -> 308...	26179	5395.90	17	Naltrexol-D3	347.2 -> 329...	5.120	177925	17	
Naltrexone	342.2 -> 324...	4/27/2018 9:58 PM	5.386	24217	51.03	17	342.2 -> 55.3	37334	5399.65	17	342.2 -> 55.3	37334	5399.65	17	Naltrexone-D3	345.2 -> 327...	5.365	320452	17	
Norbuprenorphine	414.3 -> 101...	4/27/2018 9:58 PM	5.749	3142	534.07	17	414.3 -> 57.3	4877	15.98	17	414.3 -> 57.3	4877	15.98	17	Norbuprenorphine-D3	417.3 -> 101...	5.749	8846	17	
Nordiazepam	271.1 -> 140...	4/27/2018 9:58 PM	6.354	76758	Infinity	17	271.1 -> 208...	21487	Infinity	17	271.1 -> 208...	21487	Infinity	17	Nordiazepam-D5	276.1 -> 140...	6.333	217739	17	
Norfentanyl	233.2 -> 84.2	4/27/2018 9:58 PM	5.381	152666	44867.58	17	233.2 -> 55.3	56447	Infinity	17	233.2 -> 55.3	56447	Infinity	17	Norfentanyl-D5	238.2 -> 84.2	5.381	719977	17	
Norhydrocodone	286.2 -> 199...	4/27/2018 9:58 PM	5.108	3603	5.43	17	286.2 -> 171...			17	286.2 -> 171...			17	Norhydrocodone-D3	289.2 -> 202...	5.987	60575	17	
Noroxycodone	302.1 -> 284...	4/27/2018 9:58 PM	4.963	11551	12.42	17	302.1 -> 186...	11141	2704.04	17	302.1 -> 186...	11141	2704.04	17	Noroxycodone-D3	305.2 -> 287...	4.983	119464	17	
O-desmethyl-tramadol	250.2 -> 58.3	4/27/2018 9:58 PM	5.012	299463	55.41	17	250.2 -> 42.3	6810	1054.17	17	250.2 -> 42.3	6810	1054.17	17	O-desmethyl-tramadol...	256.2 -> 64.3	4.991	829241	17	
Oxazepam	287.1 -> 240...	4/27/2018 9:58 PM	6.188	46517	98.00	17	287.1 -> 268...	40956	Infinity	17	287.1 -> 268...	40956	Infinity	17	Oxazepam-D5	292.1 -> 246...	6.167	378240	17	
Oxycodone	316.2 -> 298...	4/27/2018 9:58 PM	5.267	128885	41926.59	17	316.2 -> 241...	24875	47.61	17	316.2 -> 241...	24875	47.61	17	Oxycodone-D6	322.2 -> 304...	5.205	218084	17	
Oxymorphone	302.1 -> 284...	4/27/2018 9:58 PM	4.557	84617	48.96	17	302.1 -> 227...	14862	80.76	17	302.1 -> 227...	14862	80.76	17	Oxymorphone-D3	305.2 -> 287...	4.516	469273	17	
Phentermine	150.1 -> 65.2	4/27/2018 9:58 PM	5.220	10680	Infinity	17	150.1 -> 133...	940	Infinity	17	150.1 -> 133...	940	Infinity	17	Phentermine-D5	155.2 -> 96.2	5.199	274477	17	
Promethazine	285.1 -> 86.2	4/27/2018 9:58 PM	6.228	298860	52434.11	17	285.1 -> 71.3	65050	84.70	17	285.1 -> 71.3	65050	84.70	17	Promethazine-D3	288.2 -> 89.2	6.208	12586...	17	
Quetiapine	384.2 -> 253...	4/27/2018 9:58 PM	6.319	255396	59551.03	17	384.2 -> 221...	1100...	205.69	17	384.2 -> 221...	1100...	205.69	17	Quetiapine-D3	392.2 -> 226...	6.277	279747	17	
Sertraline	306.1 -> 158...	4/27/2018 9:58 PM	6.429	127231	271.15	17	306.1 -> 275...	56585	17104...	17	306.1 -> 275...	56585	17104...	17	Sertraline-D8	309.1 -> 275...	6.427	486779	17	
Sufentanil	387.2 -> 238...	4/27/2018 9:58 PM	6.318	9025	12.67	17	387.2 -> 111...	10905	33.90	17	387.2 -> 111...	10905	33.90	17	Sufentanil-D5	392.2 -> 238...	6.318	458647	17	
Temazepam	301.1 -> 255...	4/27/2018 9:58 PM	6.328	136576																

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.	MI				
Tramadol	264.2 -> 58.3	4/27/2018 9:58 PM	5.480	403578	124.20	15.63	264.2 -> 43.3	5862	15.63	15.63	Tramadol-13C-D3	268.2 -> 58.3	5.480	18383...	15.63				
Trazodone	372.2 -> 176...	4/27/2018 9:58 PM	6.441	326528	Infinity	2241.62	372.2 -> 148...	3412...	2241.62	2241.62	Trazodone-D6	378.2 -> 182...	6.400	978545	2241.62				
Venlafaxine	278.2 -> 58.3	4/27/2018 9:58 PM	5.722	360311	Infinity	744.21	278.2 -> 260...	20844	744.21	744.21	Venlafaxine-D6	284.2 -> 64.3	5.721	802974	744.21				
Zolpidem	308.2 -> 235...	4/27/2018 9:58 PM	6.124	312696	803.79	1809.00	308.2 -> 263...	1052...	1809.00	1809.00	Zolpidem-D6	314.2 -> 235...	6.102	19999...	1809.00				

Due to missing internal standard peaks in the negative, this data was not evaluated. The negative control from worklist 2328, performed in tandem with worklist 2321 was used. See the data below.

Compound Method			p1 negative				p1 negative Results				Qualifier 1 M...				Qualifier 1 Result...				ISTD Method				ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	MI					
6-MAM	328.2 -> 165...	4/27/2018 10:17 PM					328.2 -> 211...				328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5.326	70077						
7-aminoclonazepam	286.1 -> 121...	4/27/2018 10:17 PM					286.1 -> 222...				286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.435	221741						
Acetyl Fentanyl	323.2 -> 105...	4/27/2018 10:17 PM	5.897	366	1.56		323.2 -> 188...				323.2 -> 188...				Acetyl Fentanyl-D5	328.2 -> 105...	5.854	12804...						
Acetyl Norfentanyl	219.1 -> 84.2	4/27/2018 10:17 PM	4.995	198	1.00		219.1 -> 56.3	61	0.43		219.1 -> 56.3				Acetyl Norfentanyl-D5	224.2 -> 84.2	4.974	448206						
a-hydroxylprazolam	325.1 -> 297...	4/27/2018 10:17 PM	6.220	26	0.13		325.1 -> 215...				325.1 -> 215...				a-hydroxylprazolam-D5	330.1 -> 302...	6.219	74286						
alpha-PVP	232.2 -> 91.0	4/27/2018 10:17 PM	5.687	175	4.83		232.2 -> 77.1	560	16.18		232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5.584	647060						
Alprazolam	309.1 -> 281...	4/27/2018 10:17 PM	6.144	11270	226.37		309.1 -> 205...	187	0.99		309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.305	422676						
Amphetamine	136.1 -> 91.1	4/27/2018 10:17 PM					136.1 -> 119...				136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4.916	11199						
Bupropion	240.1 -> 184...	4/27/2018 10:17 PM					240.1 -> 131...				240.1 -> 131...				Bupropion-D9	249.2 -> 185...	5.767	111919						
Carisoprodol	261.2 -> 176...	4/27/2018 10:17 PM					261.2 -> 55.3				261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	5.969	87383						
Citalopram	325.2 -> 109...	4/27/2018 10:17 PM	5.896	143	0.32		325.2 -> 262...				325.2 -> 262...				Citalopram-D6	331.2 -> 109...	5.976	612017						
Clonazepam	316.1 -> 269...	4/27/2018 10:17 PM	6.345	306	2.20		316.1 -> 213...				316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.162	37966						
Codeine	300.2 -> 215...	4/27/2018 10:17 PM					300.2 -> 165...				300.2 -> 165...				Codeine-D6	306.2 -> 218...	5.310	45163						
Cyclobenzaprine	276.2 -> 214...	4/27/2018 10:17 PM	6.231	289	0.86		276.2 -> 231...	182	0.79		276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.250	375332						
Dextromethorphan	272.2 -> 171...	4/27/2018 10:17 PM	6.171	622	0.69		272.2 -> 147...	33	0.96		272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	6.028	274899						
Dextropropriphan	258.2 -> 157...	4/27/2018 10:17 PM	5.542	413	4.34		258.2 -> 133...	51	0.66		258.2 -> 133...				Dextropropriphan-D3	261.2 -> 157...	5.501	235070						
Diazepam	285.1 -> 193...	4/27/2018 10:17 PM	6.634	114	85.38		285.1 -> 153...	112	0.41		285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.511	202403						
Dihydrocodeine	302.2 -> 198...	4/27/2018 10:17 PM					302.2 -> 128...				302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	5.084	164115						
Diphenhydramine	256.2 -> 167...	4/27/2018 10:17 PM	5.969	1022	7.44		256.2 -> 152...	112	0.66		256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	5.949	13956...						
Doxylamine	271.2 -> 182...	4/27/2018 10:17 PM	5.622	939	3.26		271.2 -> 167...	778	1.48		271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.621	338591						
EDDP	279.2 -> 235...	4/27/2018 10:17 PM	6.027	652	2.46		279.2 -> 250...	317	2.26		279.2 -> 250...				EDDP-D3	282.2 -> 235...	6.006	126122						
Fentanyl	337.2 -> 105...	4/27/2018 10:17 PM	6.016	39	0.30		337.2 -> 188...				337.2 -> 188...				Fentanyl-D5	342.2 -> 105...	6.036	994398						
Fluoxetine	310.1 -> 44.3	4/27/2018 10:17 PM	5.960	4053	1.98		310.1 -> 148...	415	74.41		310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.182	12401						
Hydrocodone	300.2 -> 198...	4/27/2018 10:17 PM					300.2 -> 128...				300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5.494	180842						
Hydromorphone	286.2 -> 184...	4/27/2018 10:17 PM	4.985	295	32.63		286.2 -> 157...	239	11.76		286.2 -> 157...				Hydromorphone-D6	292.2 -> 185...	4.903	55475						
Ketamine	238.1 -> 125...	4/27/2018 10:17 PM	5.707	950	3.04		238.1 -> 220...				238.1 -> 220...				Ketamine-D4	242.1 -> 129...	5.645	635484						
Meprobamate	219.1 -> 158...	4/27/2018 10:17 PM	5.403	203	3.53		219.1 -> 97.1	367	1.72		219.1 -> 97.1				Meprobamate-D7	226.2 -> 165...	5.505	14880						
Methadone	310.2 -> 265...	4/27/2018 10:17 PM					310.2 -> 105...				310.2 -> 105...				Methadone-D9	319.3 -> 268...	6.263	901290						
Methamphetamine	150.1 -> 91.1	4/27/2018 10:17 PM	5.199	15316	1.57		150.1 -> 119...				150.1 -> 119...				Methamphetamine-D11	161.2 -> 97.1	5.097	134717						
Morphine	286.2 -> 201...	4/27/2018 10:17 PM	4.540	497	286.05		286.2 -> 165...				286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.539	236						
Naloxone	328.2 -> 309...	4/27/2018 10:17 PM	5.651	188	0.24		328.2 -> 211...				328.2 -> 211...				Naloxone-D5	333.2 -> 315...	5.569	100651						
Naltrexone	344.2 -> 326...	4/27/2018 10:17 PM					344.2 -> 308...				344.2 -> 308...				Naltrexone-D3	347.2 -> 329...	5.161	222072						
Naltrexone	342.2 -> 326...	4/27/2018 10:17 PM					342.2 -> 55.3				342.2 -> 55.3				Naltrexone-D3	345.2 -> 327...	5.386	247142						
Norbuprenorphine	414.3 -> 101...	4/27/2018 10:17 PM	5.810	69	0.65		414.3 -> 57.3				414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	5.790	8704						
Nordiazepam	271.1 -> 140...	4/27/2018 10:17 PM					271.1 -> 208...				271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6.373	192876						
Norfentanyl	233.2 -> 84.2	4/27/2018 10:17 PM	5.381	191	1.34		233.2 -> 55.3	416...	7.45		233.2 -> 55.3				Norfentanyl-D5	238.2 -> 84.2	5.401	637056						
Norhydrocodone	286.2 -> 199...	4/27/2018 10:17 PM					286.2 -> 171...				286.2 -> 171...				Norhydrocodone-D3	289.2 -> 202...	5.107	61408						
Noroxycodone	302.1 -> 284...	4/27/2018 10:17 PM	5.004	314	95.02		302.1 -> 186...	463	2.49		302.1 -> 186...				Noroxycodone-D3	305.2 -> 287...	5.003	108350						
O-desmethyl-tramadol	250.2 -> 58.3	4/27/2018 10:17 PM	5.114	10412	1.42		250.2 -> 42.3	62	2.38		250.2 -> 42.3				O-desmethyl-tramadol...	256.2 -> 64.3	5.011	731689						
Oxazepam	287.1 -> 240...	4/27/2018 10:17 PM					287.1 -> 268...				287.1 -> 268...				Oxazepam-D5	292.1 -> 246...	6.207	342224						
Oxycodone	316.2 -> 298...	4/27/2018 10:17 PM	5.246	1169	2.76		316.2 -> 241...	254	41.92		316.2 -> 241...				Oxycodone-D6	322.2 -> 304...	5.246	192275						
Oxymorphone	302.1 -> 284...	4/27/2018 10:17 PM	4.496	629	1.00		302.1 -> 227...	282	185.49		302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.516	430204						
Phentermine	150.1 -> 65.2	4/27/2018 10:17 PM	5.281	474	0.57		150.1 -> 133...				150.1 -> 133...				Phentermine-D5	155.2 -> 96.2	5.219	278243						
Promethazine	285.1 -> 86.2	4/27/2018 10:17 PM	6.066	1111	2.02		285.1 -> 71.3	237	4.35		285.1 -> 71.3				Promethazine-D3	288.2 -> 89.2	6.248	10589...						
Quetiapine	384.2 -> 253...	4/27/2018 10:17 PM	6.339	534	1.16		384.2 -> 221...	91	0.51		384.2 -> 221...				Quetiapine-D8	392.2 -> 226...	6.318	265885						
Sertraline	306.1 -> 158...	4/27/2018 10:17 PM	6.469	142	0.66		306.1 -> 275...				306.1 -> 275...				Sertraline-D3	309.1 -> 275...	6.468	403027						
Sufentanil	387.2 -> 238...	4/27/2018 10:17 PM	6.318	543	0.94		387.2 -> 111...	733	193.34		387.2 -> 111...				Sufentanil-D5	392.2 -> 238...	6.338	416240						
Temazepam	301.1 -> 255...	4/27/2018 10:17 PM	6.207	1106	0.68		301.1 -> 283...	607	Infinity		301.1 -> 283...				Temazepam-D5	306.1 -> 260...	6.348	867695						



Due to missing internal standard peaks in the negative, this data was not evaluated. The negative control from worklist 2328, performed in tandem with worklist 2321 was used. See the data below.

TS

TS

Compound Method		p1 negative			p1 negative Results			Qualifier 1 M...			Qualifier 1 Resul...			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	MI				
Tramadol	264.2 -> 58.3	4/27/2018 10:17 PM	5.521	8524	26.95	1	264.2 -> 43.3	356	2.20	1	Tramadol-13C-D3	268.2 -> 58.3	5.520	16893...	1				
Trazodone	372.2 -> 176...	4/27/2018 10:17 PM	6.481	2984	506.40	1	372.2 -> 148...	304...	1.25	1	Trazodone-D6	378.2 -> 182...	6.440	931100	1				
Venlafaxine	278.2 -> 58.3	4/27/2018 10:17 PM				1	278.2 -> 260...				Venlafaxine-D6	284.2 -> 64.3	5.741	752619	1				
Zolpidem	308.2 -> 235...	4/27/2018 10:17 PM				1	308.2 -> 263...				Zolpidem-D6	314.2 -> 235...	6.143	18868...	1				

Negative control from worklist 2328 was run in tandem with worklist 2321.  
 This data will be used for evaluation.

TS

RS

Compound Name				p1 negative results				Qualifier   Result...				ISL Method				ISL Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	MI		
6-MAM	328.2 -> 165...	4/27/2018 1:04 PM	5.326	26	9.77	328.2 -> 211...	328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5.244	89930			
7-aminoclonazepam	286.1 -> 121...	4/27/2018 1:04 PM	5.354	512	2.23	286.1 -> 222...	286.1 -> 222...	261	1.01		7-Aminoclonazepam-D4	290.1 -> 121...	5.373	117103			
Acetyl Fentanyl	323.2 -> 105...	4/27/2018 1:04 PM				323.2 -> 188...	323.2 -> 188...				Acetyl Fentanyl-D5	328.2 -> 105...	5.773	17999...			
Acetyl Norfentanyl	219.1 -> 84.2	4/27/2018 1:04 PM				219.1 -> 56.3	219.1 -> 56.3				Acetyl Norfentanyl-D5	224.2 -> 84.2	4.913	561708			
a-hydroxylprazolam	325.1 -> 297...	4/27/2018 1:04 PM				325.1 -> 215...	325.1 -> 215...				a-hydroxylprazolam-D5	330.1 -> 302...	6.138	109000			
alpha-PVP	232.2 -> 91.0	4/27/2018 1:04 PM	5.484	166	26.56	232.2 -> 77.1	232.2 -> 77.1	121	0.40		alpha-PVP-d8	240.2 -> 91.1	5.482	831184			
Alprazolam	309.1 -> 281...	4/27/2018 1:04 PM	6.063	15277	9.90	309.1 -> 205...	309.1 -> 205...	134	0.53		Alprazolam-D5	314.1 -> 286...	6.244	561309			
Amphetamine	136.1 -> 91.1	4/27/2018 1:04 PM	4.814	8659	Infinity	136.1 -> 119...	136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4.834	115660			
Bupropion	240.1 -> 184...	4/27/2018 1:04 PM	5.706	337	2.48	240.1 -> 131...	240.1 -> 131...				Bupropion-D9	249.2 -> 185...	5.665	188583			
Carisoprodol	261.2 -> 176...	4/27/2018 1:04 PM				261.2 -> 55.3	261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	5.867	98064			
Citalopram	325.2 -> 109...	4/27/2018 1:04 PM	5.875	236	1.09	325.2 -> 262...	325.2 -> 262...				Citalopram-D6	331.2 -> 109...	5.895	543925			
Clonazepam	316.1 -> 269...	4/27/2018 1:04 PM	6.243	688	8.36	316.1 -> 213...	316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.080	72202			
Codeine	300.2 -> 215...	4/27/2018 1:04 PM	5.331	255	0.70	300.2 -> 165...	300.2 -> 165...	232	9.64		Codeine-D6	306.2 -> 218...	5.207	68303			
Cyclobenzaprine	276.2 -> 214...	4/27/2018 1:04 PM	6.191	276	4.49	276.2 -> 231...	276.2 -> 231...	437	75.02		Cyclobenzaprine-D3	279.2 -> 215...	6.169	524995			
Dextromethorphan	272.2 -> 171...	4/27/2018 1:04 PM	5.947	325	0.26	272.2 -> 147...	272.2 -> 147...	283	6.02		Dextromethorphan-D3	275.2 -> 171...	5.927	329406			
Dextropropriphan	258.2 -> 157...	4/27/2018 1:04 PM	5.481	567	2.43	258.2 -> 133...	258.2 -> 133...	193	+ 55		Dextropropriphan-D3	261.2 -> 157...	5.399	331570			
Diazepam	285.1 -> 193...	4/27/2018 1:04 PM				285.1 -> 153...	285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.491	278975			
Dihydrocodeine	302.2 -> 198...	4/27/2018 1:04 PM	5.003	43	1.41	302.2 -> 128...	302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	5.002	171192			
Diphenhydramine	256.2 -> 167...	4/27/2018 1:04 PM	6.072	242	1.97	256.2 -> 152...	256.2 -> 152...	103	0.50		Diphenhydramine-D3	259.2 -> 167...	5.868	18013...			
Doxylamine	271.2 -> 182...	4/27/2018 1:04 PM	5.561	192	1.28	271.2 -> 167...	271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.539	493807			
EDDP	279.2 -> 235...	4/27/2018 1:04 PM	5.946	721	134.07	279.2 -> 250...	279.2 -> 250...	684	48.90		EDDP-D3	282.2 -> 235...	5.905	197572			
Fentanyl	337.2 -> 105...	4/27/2018 1:04 PM	6.016	38	0.43	337.2 -> 188...	337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	5.955	13728...			
Fluoxetine	310.1 -> 44.3	4/27/2018 1:04 PM	5.920	1228	3.15	310.1 -> 148...	310.1 -> 148...	225	0.50		Fluoxetine-D6	316.2 -> 44.3	6.101	19301...			
Hydrocodone	300.2 -> 198...	4/27/2018 1:04 PM	5.434	526	1.67	300.2 -> 128...	300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5.393	295479			
Hydromorphone	286.2 -> 184...	4/27/2018 1:04 PM	4.742	425	0.04	286.2 -> 157...	286.2 -> 157...	47	101.11		Hydromorphone-D6	292.2 -> 185...	4.842	90952			
Ketamine	238.1 -> 125...	4/27/2018 1:04 PM				238.1 -> 220...	238.1 -> 220...				Ketamine-D4	242.1 -> 129...	5.564	823961			
Meprobamate	219.1 -> 158...	4/27/2018 1:04 PM	5.485	165	1.92	219.1 -> 97.1	219.1 -> 97.1	382	1.41		Meprobamate-D7	226.2 -> 165...	5.402	11261			
Methadone	310.2 -> 265...	4/27/2018 1:04 PM	6.224	281	0.75	310.2 -> 105...	310.2 -> 105...				Methadone-D9	319.3 -> 268...	6.202	12928...			
Methamphetamine	150.1 -> 91.1	4/27/2018 1:04 PM	5.077	21614	Infinity	150.1 -> 119...	150.1 -> 119...				Methamphetamine-D11	161.2 -> 97.1	5.016	154064			
Morphine	286.2 -> 201...	4/27/2018 1:04 PM				286.2 -> 165...	286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.539	1856			
Naloxone	328.2 -> 309...	4/27/2018 1:04 PM	5.509	72	0.10	328.2 -> 211...	328.2 -> 211...				Naloxone-D5	333.2 -> 315...	5.468	149136			
Naltrexol	344.2 -> 326...	4/27/2018 1:04 PM	5.325	13848	14.47	344.2 -> 308...	344.2 -> 308...				Naltrexol-D3	347.2 -> 329...	5.079	220430			
Naltrexone	342.2 -> 324...	4/27/2018 1:04 PM	5.305	258	103.95	342.2 -> 55.3	342.2 -> 55.3				Naltrexone-D3	345.2 -> 327...	5.304	447587			
Norbuprenorphine	414.3 -> 101...	4/27/2018 1:04 PM				414.3 -> 57.3	414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	5.688	12150			
Nordiazepam	271.1 -> 140...	4/27/2018 1:04 PM	6.192	178	1.04	271.1 -> 208...	271.1 -> 208...	134	1.80		Nordiazepam-D5	276.1 -> 140...	6.333	285373			
Norfentanyl	233.2 -> 84.2	4/27/2018 1:04 PM	5.340	187	0.64	233.2 -> 55.3	233.2 -> 55.3	254	Infinity		Norfentanyl-D5	238.2 -> 84.2	5.320	921452			
Norhydrocodone	286.2 -> 199...	4/27/2018 1:04 PM	5.047	173	1.53	286.2 -> 171...	286.2 -> 171...				Norhydrocodone-D3	289.2 -> 202...	5.025	75821			
Noroxycodone	302.1 -> 284...	4/27/2018 1:04 PM	4.841	80	41.51	302.1 -> 186...	302.1 -> 186...				Noroxycodone-D3	305.2 -> 287...	4.942	151606			
O-desmethyl-tramadol	250.2 -> 58.3	4/27/2018 1:04 PM	4.971	5263	1.02	250.2 -> 42.3	250.2 -> 42.3	107	0.40		O-desmethyl-tramadol-...	256.2 -> 64.3	4.951	10562...			
Oxazepam	287.1 -> 240...	4/27/2018 1:04 PM	5.663	947	9.75	287.1 -> 268...	287.1 -> 268...				Oxazepam-D5	292.1 -> 246...	6.146	530688			
Oxycodone	316.2 -> 298...	4/27/2018 1:04 PM	4.537	598	0.77	316.2 -> 241...	316.2 -> 241...	108	0.43		Oxycodone-D6	322.2 -> 304...	5.165	278248			
Oxymorphone	302.1 -> 284...	4/27/2018 1:04 PM	6.277	1235	13.50	302.1 -> 227...	302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.496	620875			
Phentermine	150.1 -> 65.2	4/27/2018 1:04 PM				150.1 -> 133...	150.1 -> 133...				Phentermine-D5	155.2 -> 96.2	5.158	313728			
Promethazine	285.1 -> 86.2	4/27/2018 1:04 PM				285.1 -> 71.3	285.1 -> 71.3				Promethazine-D3	288.2 -> 89.2	6.167	14582...			
Quetiapine	384.2 -> 253...	4/27/2018 1:04 PM	6.258	70	0.58	384.2 -> 221...	384.2 -> 221...	128	0.66		Quetiapine-D8	392.2 -> 226...	6.236	330273			
Sertraline	306.1 -> 158...	4/27/2018 1:04 PM	6.449	368	1.22	306.1 -> 275...	306.1 -> 275...	110...	3.22		Sertraline-D3	309.1 -> 275...	6.387	671942			
Sufentanil	387.2 -> 238...	4/27/2018 1:04 PM	6.277	1235	13.50	387.2 -> 111...	387.2 -> 111...	911	3.04		Sufentanil-D5	392.2 -> 238...	6.277	557892			
Temazepam	301.1 -> 255...	4/27/2018 1:04 PM	6.166	1194	1.80	301.1 -> 283...	301.1 -> 283...	407...	3.14		Temazepam-D5	306.1 -> 260...	6.287	11862...			

Negative control from worklist 2328 was run in tandem with worklist 2321.  
 This data will be used for evaluation.

TS

Compound name		p1 negative				p1 negative results				Qualifier 1 M...				ISIU method				ISIU results			
Name	Transition	Acq Date	Time	RT	Resp	S/N	ML	Transition	Area	S/N	MI	Name	Transition	RT	Resp	MI					
Tramadol	264.2 -> 58.3	4/27/2018	1:04 PM	5.419	11588	835.86	☐	264.2 -> 43.3	665	110.23	☐	Tramadol-13C-D3	268.2 -> 58.3	5.419	21139	☐					
Trazodone	372.2 -> 176...	4/27/2018	1:04 PM	6.441	3241	Infinity	☐	372.2 -> 148...	224...	0.48	☐	Trazodone-D6	378.2 -> 182...	6.380	11518	☐					
Venlafaxine	278.2 -> 58.3	4/27/2018	1:04 PM				☐	278.2 -> 260...			☐	Venlafaxine-D6	284.2 -> 64.3	5.660	951840	☐					
Zolpidem	308.2 -> 235...	4/27/2018	1:04 PM	5.982	173	1.57	☐	308.2 -> 263...	129	1.37	☐	Zolpidem-D6	314.2 -> 235...	6.061	23479	☐					

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	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	MI	Name	Transition	RT	Resp.	MI	Name	Transition	RT	Resp.	MI
6-MAM	328.2 -> 165...	4/27/2018 10:37 PM	5.347	138	1.89		328.2 -> 211...				328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5.285	75721		6-MAM-D6	334.2 -> 165...	5.285	75721		6-MAM-D6	334.2 -> 165...	5.285	75721	
7-aminoclonazepam	286.1 -> 121...	4/27/2018 10:37 PM					286.1 -> 222...				286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.415	171116		7-Aminoclonazepam-D4	290.1 -> 121...	5.415	171116		7-Aminoclonazepam-D4	290.1 -> 121...	5.415	171116	
Acetyl Fentanyl	323.2 -> 105...	4/27/2018 10:37 PM	6.099	167	2.00		323.2 -> 188...				323.2 -> 188...				Acetyl Fentanyl-D5	328.2 -> 105...	5.834	12684...		Acetyl Fentanyl-D5	328.2 -> 105...	5.834	12684...		Acetyl Fentanyl-D5	328.2 -> 105...	5.834	12684...	
Acetyl Norfentanyl	219.1 -> 84.2	4/27/2018 10:37 PM	5.015	128	1.50		219.1 -> 56.3				219.1 -> 56.3				Acetyl Norfentanyl-D5	224.2 -> 84.2	4.934	413836		Acetyl Norfentanyl-D5	224.2 -> 84.2	4.934	413836		Acetyl Norfentanyl-D5	224.2 -> 84.2	4.934	413836	
a-hydroxylprazolam	325.1 -> 297...	4/27/2018 10:37 PM	6.180	155	0.68		325.1 -> 215...				325.1 -> 215...				a-hydroxylprazolam-D5	330.1 -> 302...	6.179	86623		a-hydroxylprazolam-D5	330.1 -> 302...	6.179	86623		a-hydroxylprazolam-D5	330.1 -> 302...	6.179	86623	
alpha-PVP	232.2 -> 91.0	4/27/2018 10:37 PM	5.341	198	4.81		232.2 -> 77.1				232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5.564	613827		alpha-PVP-d8	240.2 -> 91.1	5.564	613827		alpha-PVP-d8	240.2 -> 91.1	5.564	613827	
Alprazolam	309.1 -> 281...	4/27/2018 10:37 PM	6.123	12936	17.04		309.1 -> 205...				309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.285	450649		Alprazolam-D5	314.1 -> 286...	6.285	450649		Alprazolam-D5	314.1 -> 286...	6.285	450649	
Amphetamine	136.1 -> 91.1	4/27/2018 10:37 PM	4.835	3938	0.80		136.1 -> 119...				136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4.855	12280		Amphetamine-D11	147.2 -> 130...	4.855	12280		Amphetamine-D11	147.2 -> 130...	4.855	12280	
Bupropion	240.1 -> 184...	4/27/2018 10:37 PM	5.889	245	58.42		240.1 -> 131...				240.1 -> 131...				Bupropion-D9	249.2 -> 185...	5.726	119816		Bupropion-D9	249.2 -> 185...	5.726	119816		Bupropion-D9	249.2 -> 185...	5.726	119816	
Carisoprodol	261.2 -> 176...	4/27/2018 10:37 PM	5.936	56	0.42		261.2 -> 55.3				261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	5.928	77543		Carisoprodol-D7	268.2 -> 183...	5.928	77543		Carisoprodol-D7	268.2 -> 183...	5.928	77543	
Citalopram	325.2 -> 109...	4/27/2018 10:37 PM	6.284	610	2.44		325.2 -> 262...				325.2 -> 262...				Citalopram-D6	331.2 -> 109...	5.955	606299		Citalopram-D6	331.2 -> 109...	5.955	606299		Citalopram-D6	331.2 -> 109...	5.955	606299	
Clonazepam	316.1 -> 269...	4/27/2018 10:37 PM	5.270	845	149.67		316.1 -> 213...				316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.141	47674		Clonazepam-D4	320.1 -> 217...	6.141	47674		Clonazepam-D4	320.1 -> 217...	6.141	47674	
Codeine	300.2 -> 215...	4/27/2018 10:37 PM	5.270	845	149.67		300.2 -> 165...				300.2 -> 165...				Codeine-D6	306.2 -> 218...	5.268	52636		Codeine-D6	306.2 -> 218...	5.268	52636		Codeine-D6	306.2 -> 218...	5.268	52636	
Cyclobenzaprine	276.2 -> 214...	4/27/2018 10:37 PM	6.170	132	0.60		276.2 -> 231...				276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.230	428807		Cyclobenzaprine-D3	279.2 -> 215...	6.230	428807		Cyclobenzaprine-D3	279.2 -> 215...	6.230	428807	
Dextromethorphan	272.2 -> 171...	4/27/2018 10:37 PM	6.192	735	3.11		272.2 -> 147...				272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	5.988	309278		Dextromethorphan-D3	275.2 -> 171...	5.988	309278		Dextromethorphan-D3	275.2 -> 171...	5.988	309278	
Dextropropriphan	258.2 -> 157...	4/27/2018 10:37 PM	5.502	297	2.04		258.2 -> 133...				258.2 -> 133...				Dextropropriphan-D3	261.2 -> 157...	5.460	251776		Dextropropriphan-D3	261.2 -> 157...	5.460	251776		Dextropropriphan-D3	261.2 -> 157...	5.460	251776	
Diazepam	285.1 -> 193...	4/27/2018 10:37 PM	6.512	621671	244.37		285.1 -> 153...				285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.491	216637		Diazepam-D5	290.1 -> 198...	6.491	216637		Diazepam-D5	290.1 -> 198...	6.491	216637	
Dihydrocodeine	302.2 -> 198...	4/27/2018 10:37 PM					302.2 -> 128...				302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	5.044	152566		Dihydrocodeine-D6	308.2 -> 202...	5.044	152566		Dihydrocodeine-D6	308.2 -> 202...	5.044	152566	
Diphenhydramine	256.2 -> 167...	4/27/2018 10:37 PM	5.888	500	1.48		256.2 -> 152...				256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	5.929	15118...		Diphenhydramine-D3	259.2 -> 167...	5.929	15118...		Diphenhydramine-D3	259.2 -> 167...	5.929	15118...	
Doxylamine	271.2 -> 182...	4/27/2018 10:37 PM	5.986	91	1.02		271.2 -> 167...				271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.600	344815		Doxylamine-D5	276.2 -> 187...	5.600	344815		Doxylamine-D5	276.2 -> 187...	5.600	344815	
EDDP	279.2 -> 235...	4/27/2018 10:37 PM	6.138	76	0.54		279.2 -> 188...				279.2 -> 188...				EDDP-D3	282.2 -> 235...	5.966	135699		EDDP-D3	282.2 -> 235...	5.966	135699		EDDP-D3	282.2 -> 235...	5.966	135699	
Fentanyl	337.2 -> 105...	4/27/2018 10:37 PM	6.346	668	10.78		337.2 -> 188...				337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	6.016	10038...		Fentanyl-D5	342.3 -> 105...	6.016	10038...		Fentanyl-D5	342.3 -> 105...	6.016	10038...	
Fluoxetine	310.1 -> 44.3	4/27/2018 10:37 PM					310.1 -> 148...				310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.162	13739...		Fluoxetine-D6	316.2 -> 44.3	6.162	13739...		Fluoxetine-D6	316.2 -> 44.3	6.162	13739...	
Hydrocodone	300.2 -> 198...	4/27/2018 10:37 PM					300.2 -> 128...				300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5.454	217249		Hydrocodone-D6	306.2 -> 202...	5.454	217249		Hydrocodone-D6	306.2 -> 202...	5.454	217249	
Hydromorphone	286.2 -> 184...	4/27/2018 10:37 PM					286.2 -> 157...				286.2 -> 157...				Hydromorphone-D6	292.2 -> 185...	4.863	65991		Hydromorphone-D6	292.2 -> 185...	4.863	65991		Hydromorphone-D6	292.2 -> 185...	4.863	65991	
Ketamine	238.1 -> 125...	4/27/2018 10:37 PM	5.443	209	24.21		238.1 -> 220...				238.1 -> 220...				Ketamine-D4	242.1 -> 129...	5.625	623837		Ketamine-D4	242.1 -> 129...	5.625	623837		Ketamine-D4	242.1 -> 129...	5.625	623837	
Meprobamate	219.1 -> 158...	4/27/2018 10:37 PM	6.184	577	0.67		219.1 -> 97.1				219.1 -> 97.1				Meprobamate-D7	226.2 -> 165...	5.464	14632		Meprobamate-D7	226.2 -> 165...	5.464	14632		Meprobamate-D7	226.2 -> 165...	5.464	14632	
Methadone	310.2 -> 265...	4/27/2018 10:37 PM	5.118	10510	12.29		310.2 -> 105...				310.2 -> 105...				Methadone-D9	319.3 -> 268...	6.243	10212...		Methadone-D9	319.3 -> 268...	6.243	10212...		Methadone-D9	319.3 -> 268...	6.243	10212...	
Methamphetamine	150.1 -> 91.1	4/27/2018 10:37 PM	5.509	1741	353.89		150.1 -> 119...				150.1 -> 119...				Methamphetamine-D11	161.2 -> 97.1	5.036	127972		Methamphetamine-D11	161.2 -> 97.1	5.036	127972		Methamphetamine-D11	161.2 -> 97.1	5.036	127972	
Morphine	286.2 -> 201...	4/27/2018 10:37 PM	4.620	413	0.44		286.2 -> 165...				286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.539	498		Morphine-D6	292.2 -> 152...	4.539	498		Morphine-D6	292.2 -> 152...	4.539	498	
Naloxone	328.2 -> 309...	4/27/2018 10:37 PM	5.365	8022	1918.70		328.2 -> 211...				328.2 -> 211...				Naloxone-D5	333.2 -> 315...	5.529	114575		Naloxone-D5	333.2 -> 315...	5.529	114575		Naloxone-D5	333.2 -> 315...	5.529	114575	
Naltrexol	344.2 -> 326...	4/27/2018 10:37 PM					344.2 -> 308...				344.2 -> 308...				Naltrexol-D3	347.2 -> 329...	5.120	177948		Naltrexol-D3	347.2 -> 329...	5.120	177948		Naltrexol-D3	347.2 -> 329...	5.120	177948	
Naltrexone	414.3 -> 324...	4/27/2018 10:37 PM	6.232	308	0.57		414.3 -> 57.3				414.3 -> 57.3				Naltrexone-D3	345.2 -> 327...	5.345	270850		Naltrexone-D3	345.2 -> 327...	5.345	270850		Naltrexone-D3	345.2 -> 327...	5.345	270850	
Norbuprenorphine	271.1 -> 140...	4/27/2018 10:37 PM	5.402	143	74.17		271.1 -> 208...				271.1 -> 208...				Norbuprenorphine-D3	276.1 -> 140...	6.353	211590		Norbuprenorphine-D3	276.1 -> 140...	6.353	211590		Norbuprenorphine-D3	276.1 -> 140...	6.353	211590	
Nordiazepam	233.2 -> 84.2	4/27/2018 10:37 PM	6.438	595	6.64		233.2 -> 55.3				233.2 -> 55.3				Nordiazepam-D5	238.2 -> 84.2	5.381	581345		Nordiazepam-D5	238.2 -> 84.2	5.381	581345		Nordiazepam-D5	238.2 -> 84.2	5.381	581345	
Norfentanyl	286.2 -> 199...	4/27/2018 10:37 PM	5.953	5723	1.56		286.2 -> 171...				286.2 -> 171...				Norfentanyl-D5	289.2 -> 202...	5.087	58623		Norfentanyl-D5	289.2 -> 202...	5.087	58623		Norfentanyl-D5	289.2 -> 202...	5.087	58623	

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.	MI				
Tramadol	264.2 -> 58.3	4/27/2018 10:37 PM	5.480	9069	281.92	3	264.2 -> 43.3	625	0.40	3	Tramadol-13C-D3	268.2 -> 58.3	5.480	18506...	3				
Trazodone	372.2 -> 176...	4/27/2018 10:37 PM	6.501	2092	3.39	3	372.2 -> 148...	1785	0.99	3	Trazodone-D6	378.2 -> 182...	6.420	988400	3				
Venlafaxine	278.2 -> 58.3	4/27/2018 10:37 PM				3	278.2 -> 260...				Venlafaxine-D6	284.2 -> 64.3	5.721	755921	3				
Zolpidem	308.2 -> 235...	4/27/2018 10:37 PM	6.388	2547	10.61	3	308.2 -> 263...	945	2.84	3	Zolpidem-D6	314.2 -> 235...	6.122	20032...	3				

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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...	4/27/2018 10:07...	5.612	62334	12940.36	1	284.1 -> 93.2	6532	29.62	1	7-aminoflunitrazepam-D7	291.2 -> 138...	5.590	509374					
alpha-hydroxymidazolam	342.1 -> 324...	4/27/2018 10:07...	6.294	101352	93.94	1	342.1 -> 203...	44968	156.26	1	alpha-hydroxymidazolam...	346.1 -> 328...	6.274	502588					
Amitriptyline	278.2 -> 91.2	4/27/2018 10:07...	6.325	233912	15.25	1	278.2 -> 105...	77913	24.07	1	Amitriptyline-D3	281.2 -> 91.2	6.324	623737					
Amoxapine	314.1 -> 271...	4/27/2018 10:07...	6.298	59298	31.41	1	314.1 -> 193...	43140	59.36	1	Amitriptyline-D3	281.2 -> 91.2	6.324	623737					
Benzoylcegonine	290.1 -> 168...	4/27/2018 10:07...	5.263	22953	141.43	1	290.1 -> 105...	9510	58.37	1	Benzoylcegonine-D8	298.2 -> 171...	5.221	7898					
Carbamazepine	237.1 -> 193...	4/27/2018 10:07...	5.986	39379	11.98	1	237.1 -> 194...	2288...	61.53	1	Carbamazepine-13C6	243.1 -> 200...	5.985	1462020					
Chlordiazepoxide	300.1 -> 227...	4/27/2018 10:07...	6.402	35216	314.96	1	300.1 -> 282...	28247	7.50	1	Chlordiazepoxide-D5	305.1 -> 286...	6.402	450649					
Clomipramine	315.2 -> 86.2	4/27/2018 10:07...	6.561	330764	189.10	1	315.2 -> 58.3	1777...	23.56	1	Clomipramine-D3	318.2 -> 89.2	6.541	1062948					
Cocaine	304.2 -> 182...	4/27/2018 10:07...	5.588	158406	57.13	1	304.2 -> 105...	23515	89.26	1	Cocaine-D3	307.2 -> 185...	5.587	579145					
Desipramine	267.2 -> 72.3	4/27/2018 10:07...	6.266	296479	179.91	1	267.2 -> 44.3	1211...	46.14	1	Desipramine-D3	270.2 -> 75.3	6.265	786438					
Doxepin	280.2 -> 107...	4/27/2018 10:07...	6.061	74486	406.21	1	280.2 -> 77.2	32370	108.94	1	Doxepin-D3	283.2 -> 107...	6.060	201069					
Estazolam	295.1 -> 267...	4/27/2018 10:07...	6.242	92442	232.61	1	295.1 -> 205...	52996	108.94	1	Estazolam-D5	300.1 -> 272...	6.220	707976					
Flunitrazepam	314.1 -> 268...	4/27/2018 10:07...	6.258	106411	69.31	1	314.1 -> 239...	26976	41.97	1	Flunitrazepam-D7	321.1 -> 245...	6.257	41247					
Flurazepam	388.2 -> 315...	4/27/2018 10:07...	6.110	171666	683.84	1	388.2 -> 317...	27912	28.83	1	Zopiclone-D4	393.1 -> 244...	6.089	93275					
Imipramine	281.2 -> 86.2	4/27/2018 10:07...	6.283	356118	166.39	1	281.2 -> 58.3	2002...	90.97	1	Imipramine-D3	284.2 -> 61.3	6.283	1496651					
Levamisole	205.1 -> 91.2	4/27/2018 10:07...	4.846	308	0.85	1	205.1 -> 178...	394	1.03	1	Cocaine-D3	307.2 -> 185...	5.587	579145					
Maprotiline	278.2 -> 91.2	4/27/2018 10:07...	6.000	213300	Infinity	1	278.2 -> 117...	2082	664.56	1	Meperidine-D4	252.2 -> 224...	5.617	77598					
MDEA	180.1 -> 163...	4/27/2018 10:07...	5.093	45832	15.95	1	180.1 -> 105...	23650	Infinity	1	MDEA-D5	185.1 -> 168...	5.073	81929					
MDEA	208.1 -> 163...	4/27/2018 10:07...	5.356	152916	32.62	1	208.1 -> 105...	64051	31.48	1	MDEA-D6	214.2 -> 166...	5.356	448669					
MDMA	194.1 -> 163...	4/27/2018 10:07...	5.214	74972	26.00	1	194.1 -> 105...	50277	29.54	1	MDMA-D6	200.2 -> 166...	5.214	24587					
Meperidine	248.2 -> 220...	4/27/2018 10:07...	5.618	61407	220.06	1	248.2 -> 174...	49646	112.20	1	Meperidine-D4	252.2 -> 224...	5.617	77598					
Methylphenidate	234.2 -> 84.2	4/27/2018 10:07...	5.558	341963	154.99	1	234.2 -> 56.3	54801	29.19	1	Meperidine-D4	252.2 -> 224...	5.617	77598					
Metoprolol	268.2 -> 116...	4/27/2018 10:07...	5.491	30168	54.13	1	268.2 -> 56.3	27852	233.76	1	Meperidine-D4	252.2 -> 224...	5.617	77598					
Midazolam	326.1 -> 223...	4/27/2018 10:07...	6.438	23956	61.84	1	326.1 -> 249...	20826	61.74	1	Midazolam-D4	330.1 -> 295...	6.437	431464					
Mirtazapine	266.2 -> 195...	4/27/2018 10:07...	5.961	164513	32.19	1	266.2 -> 72.3	1383...	Infinity	1	Midazolam-D4	330.1 -> 295...	6.437	431464					
Mitragynine	399.2 -> 174...	4/27/2018 10:07...	6.109	76115	640.58	1	399.2 -> 238...	16319	3585.43	1	Carbamazepine-13C6	243.1 -> 200...	5.985	1462020					
Normeperidine	234.1 -> 42.3	4/27/2018 10:07...	5.599	52336	37.41	1	234.1 -> 160...	12865	2386.67	1	Normeperidine-D4	238.2 -> 164...	5.578	410654					
Norpropoxyphene	326.2 -> 44.3	4/27/2018 10:07...	6.133	19186	34.77	1	326.2 -> 252...	2907	8.04	1	Norpropoxyphene-D5	331.2 -> 44.3	6.133	79142					
Nortriptyline	264.2 -> 91.2	4/27/2018 10:07...	6.287	91108	Infinity	1	264.2 -> 233...	3365...	90238.78	1	Nortriptyline-D3	267.2 -> 233...	6.306	376966					
Ordnasetron	294.2 -> 184...	4/27/2018 10:07...	5.813	101431	72.90	1	294.2 -> 212...	16300	3382.68	1	Pentazocine-13C3	289.2 -> 72.3	5.652	800624					
Pentazocine	286.2 -> 218...	4/27/2018 10:07...	5.652	105709	233.52	1	286.2 -> 41.3	55335	46.29	1	Pentazocine-13C3	289.2 -> 72.3	5.652	800624					
Phenazepam	349.0 -> 206...	4/27/2018 10:07...	6.314	31970	305.79	1	349.0 -> 183...	44997	232.50	1	Phenazepam-D4	353.0 -> 183...	6.313	21041					
Phencyclidine	244.2 -> 86.2	4/27/2018 10:07...	5.862	83631	25457.47	1	244.2 -> 91.1	1016...	138610...	1	Phencyclidine-D5	249.2 -> 86.2	5.861	704791					
Phenylethylamine	253.1 -> 104...	4/27/2018 10:07...	5.881	5079	7.09	1	253.1 -> 182...	5106	1264.42	1	Phencyclidine-D5	249.2 -> 86.2	5.861	704791					
Praxepam	325.1 -> 271...	4/27/2018 10:07...	6.762	334361	241.81	1	325.1 -> 140...	1150...	110.47	1	Phenylethylamine-D5	263.2 -> 192...	5.881	24546					
Primidone	219.1 -> 91.2	4/27/2018 10:07...	5.315	37312	Infinity	1	219.1 -> 162...	23615	107.76	1	Praxepam-D5	330.1 -> 276...	6.761	1949367					
Propoxyphene	340.2 -> 58.3	4/27/2018 10:07...	6.173	276536	174.92	1	340.2 -> 266...	35750	64.67	1	Propoxyphene-D11	351.3 -> 277...	6.151	140569					
Protriptyline	264.2 -> 155...	4/27/2018 10:07...	6.206	985809	269.05	1	264.2 -> 161...	296	1.40	1	Nortriptyline-D3	267.2 -> 233...	6.306	376966					
Pseudoephedrine	166.1 -> 148...	4/27/2018 10:07...	4.730	11602...	46.48	1	166.1 -> 133...	2662...	32.33	1	Pseudoephedrine-D3	169.1 -> 151...	4.709	314780					
Tapentadol	222.2 -> 107...	4/27/2018 10:07...	5.498	128558	48.98	1	222.2 -> 121...	58402	27.47	1	Tapentadol-D3	225.2 -> 107...	5.477	577104					
Trimipramine	295.2 -> 100...	4/27/2018 10:07...	6.363	344223	Infinity	1	295.2 -> 58.3	2202...	21721.03	1	Trimipramine-D3	298.2 -> 103...	6.363	1975871					
Verapamil	455.3 -> 165...	4/27/2018 10:07...	6.149	332885	Infinity	1	455.3 -> 150...	88187	15830.94	1	Trimipramine-D3	298.2 -> 103...	6.363	1975871					
Zaleplon	306.1 -> 236...	4/27/2018 10:07...	6.076	82604	2250.45	1	306.1 -> 264...	96576	141.82	1	Zaleplon-D4	310.2 -> 240...	6.076	199854					
Zopiclone	389.1 -> 244...	4/27/2018 10:07...	6.089	12404	29.98	1	389.1 -> 216...	5040	12.55	1	Zopiclone-D4	393.1 -> 244...	6.089	93275					

Levamisole and Protriptyline not evaluated.

TS

TS

Compound Method			p2 negative			p2 negative Results			Qualifier 1 M...			Qualifier 1 Res...			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	Area	S/N	MI	Name	Transition	RT	Resp.	MI					
7-aminoflunitrazepam	284.1 -> 135...	4/27/2018 10:27...	5.447	211	1.22	1.22	284.1 -> 93.2				7-aminoflunitrazepam-D7	291.2 -> 138...	5.610	569329						
alpha-hydroxymidazolam	342.1 -> 324...	4/27/2018 10:27...	6.335	383	1.16	1.16	342.1 -> 203...				alpha-hydroxymidazolam...	346.1 -> 328...	6.294	516709						
Amiripryline	278.2 -> 91.2	4/27/2018 10:27...					278.2 -> 105...				Amiripryline-D3	281.2 -> 91.2	6.324	554384						
Amoxapine	314.1 -> 271...	4/27/2018 10:27...	6.319	1058	24.84	24.84	314.1 -> 193...	691...	22.90	22.90	Amiripryline-D3	281.2 -> 91.2	6.324	554384						
Benzoyllecgonine	290.1 -> 168...	4/27/2018 10:27...	5.324	200	1.07	1.07	290.1 -> 105...	367	1.30	1.30	Benzoyllecgonine-D8	298.2 -> 171...	5.241	7307						
Carbamazepine	237.1 -> 193...	4/27/2018 10:27...	5.802	663	0.64	0.64	237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	5.985	14149...						
Chlordiazepoxide	300.1 -> 227...	4/27/2018 10:27...	6.443	4667	1916.89	1916.89	300.1 -> 282...	607	0.39	0.39	Chlordiazepoxide-D5	305.1 -> 286...	6.402	675691						
Clomipramine	315.2 -> 86.2	4/27/2018 10:27...	6.581	748	0.58	0.58	315.2 -> 58.3	502	0.74	0.74	Clomipramine-D3	318.2 -> 89.2	6.560	959852						
Cocaine	304.2 -> 182...	4/27/2018 10:27...	5.588	1173	1.28	1.28	304.2 -> 105...	698	0.58	0.58	Cocaine-D3	307.2 -> 185...	5.587	530575						
Desipramine	267.2 -> 72.3	4/27/2018 10:27...	6.286	2431	1.14	1.14	267.2 -> 44.3	533...	3.68	3.68	Desipramine-D3	270.2 -> 75.3	6.265	679273						
Doxepin	280.2 -> 107...	4/27/2018 10:27...	6.041	203	0.77	0.77	280.2 -> 77.2	814	1.06	1.06	Doxepin-D3	283.2 -> 107...	6.081	164115						
Estazolam	295.1 -> 267...	4/27/2018 10:27...	6.444	109	1.66	1.66	295.1 -> 205...	200	0.80	0.80	Estazolam-D5	300.1 -> 272...	6.220	771246						
Flunitrazepam	314.1 -> 268...	4/27/2018 10:27...	6.298	1856	0.71	0.71	314.1 -> 239...	302	1.32	1.32	Flunitrazepam-D7	321.1 -> 245...	6.257	43892						
Flurazepam	388.2 -> 315...	4/27/2018 10:27...	6.029	340	1.39	1.39	388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.089	101517						
Imipramine	281.2 -> 86.2	4/27/2018 10:27...	6.364	3838	5.80	5.80	281.2 -> 58.3	191...	1.32	1.32	Imipramine-D3	284.2 -> 61.3	6.303	13006...						
Levamisole	205.1 -> 91.2	4/27/2018 10:27...	4.788	174	0.26	0.26	205.1 -> 178...				Cocaine-D3	307.2 -> 185...	5.587	530575						
Maprotiline	278.2 -> 91.2	4/27/2018 10:27...	6.123	9458	1.02	1.02	278.2 -> 117...				Meperidine-D4	252.2 -> 224...	5.617	85594						
MDA	180.1 -> 163...	4/27/2018 10:27...					180.1 -> 105...				MDA-D5	185.1 -> 168...	5.073	74528						
MDEA	208.1 -> 163...	4/27/2018 10:27...	5.499	552	1.71	1.71	208.1 -> 105...	786	1.13	1.13	MDEA-D6	214.2 -> 166...	5.356	389966						
MDMA	194.1 -> 163...	4/27/2018 10:27...	5.378	520	0.33	0.33	194.1 -> 105...	444	0.32	0.32	MDMA-D6	200.2 -> 166...	5.194	18960						
Meperidine	248.2 -> 220...	4/27/2018 10:27...	5.557	83	0.25	0.25	248.2 -> 174...	329	0.90	0.90	Meperidine-D4	252.2 -> 224...	5.617	85594						
Methyphenidate	234.2 -> 84.2	4/27/2018 10:27...	5.904	1105	0.52	0.52	234.2 -> 56.3	151	0.48	0.48	Meperidine-D4	252.2 -> 224...	5.617	85594						
Metoprolol	268.2 -> 116...	4/27/2018 10:27...	5.532	78	0.43	0.43	268.2 -> 56.3	572	1.34	1.34	Meperidine-D4	252.2 -> 224...	5.617	85594						
Midazolam	326.1 -> 223...	4/27/2018 10:27...	6.539	311	1.56	1.56	326.1 -> 249...	52	0.35	0.35	Midazolam-D4	330.1 -> 295...	6.437	506341						
Mirtazapine	266.2 -> 195...	4/27/2018 10:27...	6.022	1050	0.70	0.70	266.2 -> 72.3				Midazolam-D4	330.1 -> 295...	6.437	506341						
Mitragynine	399.2 -> 174...	4/27/2018 10:27...	6.594	61	1.39	1.39	399.2 -> 238...				Carbamazepine-13C6	243.1 -> 200...	5.985	14149...						
Normeperidine	234.1 -> 42.3	4/27/2018 10:27...	5.722	459	0.68	0.68	234.1 -> 160...	205	1.04	1.04	Normeperidine-D4	238.2 -> 164...	5.578	371559						
Norpropoxyphene	326.2 -> 44.3	4/27/2018 10:27...	6.093	192	1.52	1.52	326.2 -> 252...				Norpropoxyphene-D5	331.2 -> 44.3	6.133	67574						
Nortriptyline	264.2 -> 91.2	4/27/2018 10:27...	6.368	1963	1.15	1.15	264.2 -> 233...	92	0.60	0.60	Nortriptyline-D3	267.2 -> 233...	6.306	347210						
Ondansetron	294.2 -> 184...	4/27/2018 10:27...	5.752	41	0.66	0.66	294.2 -> 212...				Pentazocine-13C3	289.2 -> 72.3	5.652	721050						
Pentazocine	286.2 -> 218...	4/27/2018 10:27...	5.794	108	0.66	0.66	286.2 -> 41.3	207	0.46	0.46	Pentazocine-13C3	289.2 -> 72.3	5.652	721050						
Phenazepam	349.0 -> 206...	4/27/2018 10:27...	6.293	1362	12.06	12.06	349.0 -> 183...	237	2.03	2.03	Phenazepam-D4	353.0 -> 183...	6.313	28466						
Phencyclidine	244.2 -> 86.2	4/27/2018 10:27...	6.066	118	1.26	1.26	244.2 -> 91.1	192...	0.71	0.71	Phencyclidine-D5	249.2 -> 86.2	5.861	568654						
Phenylethanolamine	253.1 -> 104...	4/27/2018 10:27...	5.902	439	6.71	6.71	253.1 -> 182...	27	2.36	2.36	Phenylethanolamine-D10	263.2 -> 192...	5.881	22827						
Prazepam	325.1 -> 271...	4/27/2018 10:27...	6.256	505	0.57	0.57	325.1 -> 140...	190...	0.56	0.56	Przepam-D5	330.1 -> 276...	6.761	18751...						
Primidone	219.1 -> 91.2	4/27/2018 10:27...	5.376	724	1.60	1.60	219.1 -> 162...	31	0.35	0.35	Przepam-D5	330.1 -> 276...	6.761	18751...						
Propoxyphene	340.2 -> 58.3	4/27/2018 10:27...	6.396	1176	0.82	0.82	340.2 -> 266...	644	1.98	1.98	Propoxyphene-D11	351.3 -> 277...	6.151	113262						
Protriptyline	264.2 -> 155...	4/27/2018 10:27...	6.186	1030	79.32	79.32	264.2 -> 161...	192	0.99	0.99	Nortriptyline-D3	267.2 -> 233...	6.306	347210						
Pseudoephedrine	166.1 -> 148...	4/27/2018 10:27...					166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.709	281765						
Tapentadol	222.2 -> 107...	4/27/2018 10:27...	5.437	617	0.59	0.59	222.2 -> 121...	665	1.97	1.97	Tapentadol-D3	252.2 -> 107...	5.497	528112						
Trimipramine	295.2 -> 100...	4/27/2018 10:27...	6.688	746	0.91	0.91	295.2 -> 58.3	812	1.08	1.08	Trimipramine-D3	298.2 -> 103...	6.383	18121...						
Verapamil	455.3 -> 165...	4/27/2018 10:27...	6.129	114	1.01	1.01	455.3 -> 150...				Trimipramine-D3	298.2 -> 103...	6.383	18121...						
Zaleplon	306.1 -> 236...	4/27/2018 10:27...	6.361	782	1.57	1.57	306.1 -> 284...	163...	7.78	7.78	Zaleplon-D4	310.2 -> 240...	6.076	185867						
Zopiclone	389.1 -> 244...	4/27/2018 10:27...	6.191	79	0.13	0.13	389.1 -> 216...	96	1.26	1.26	Zopiclone-D4	393.1 -> 244...	6.089	101517						

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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.	MI					
7-aminoflunitrazepam	284.1 → 135...	4/27/2018 10:46 P...	5.774	2085	13.25	181	284.1 → 93.2	181	26.64	181	7-aminoflunitrazepam-D7	291.2 → 138...	5.610	577081	181					
alpha-hydroxymidazolam	342.1 → 324...	4/27/2018 10:46 P...	6.658	511	2.50	1051	342.1 → 203...	1051			alpha-hydroxymidazolam-D3	346.1 → 328...	6.294	490135	1051					
Amiripryline	278.2 → 91.2	4/27/2018 10:46 P...	6.487	5587	0.96	6334	278.2 → 105...	6334	1.44	1.44	Amiripryline-D3	281.2 → 91.2	6.344	547710	6334					
Amoxapine	314.1 → 271...	4/27/2018 10:46 P...	6.319	588	3.07	57	314.1 → 193...	57	34.48	34.48	Amiripryline-D3	281.2 → 91.2	6.344	547710	57					
Benzoylcegonine	290.1 → 168...	4/27/2018 10:46 P...	5.060	173	1.06	1284	290.1 → 105...	1284	4.08	4.08	Benzoylcegonine-D8	298.2 → 171...	5.262	7794	1284					
Carbamazepine	237.1 → 193...	4/27/2018 10:46 P...	5.496	5188	3.58	47	237.1 → 194...	47	0.32	0.32	Carbamazepine-13C6	243.1 → 200...	6.005	13975...	47					
Chlordiazepoxide	300.1 → 227...	4/27/2018 10:46 P...	6.463	3310	7.77	5075	300.1 → 282...	5075	4.78	4.78	Chlordiazepoxide-D5	305.1 → 286...	6.422	732729	5075					
Clomipramine	315.2 → 86.2	4/27/2018 10:46 P...	6.642	592	0.69	362	315.2 → 58.3	362	0.32	0.32	Clomipramine-D3	318.2 → 89.2	5.560	969045	362					
Cocaine	304.2 → 182...	4/27/2018 10:46 P...	5.628	961	0.75	221	304.2 → 105...	221	0.48	0.48	Cocaine-D3	307.2 → 185...	5.607	983716	221					
Desipramine	267.2 → 72.3	4/27/2018 10:46 P...	6.306	2038	4.37	49	267.2 → 44.3	49	1.02	1.02	Desipramine-D3	270.2 → 75.3	6.286	656061	49					
Doxepin	280.2 → 107...	4/27/2018 10:46 P...	6.082	154	0.41	4276	280.2 → 77.2	4276	1.63	1.63	Doxepin-D3	283.2 → 107...	6.081	191449	4276					
Estazolam	295.1 → 267...	4/27/2018 10:46 P...	6.363	495	4.53	315	295.1 → 205...	315	0.86	0.86	Estazolam-D5	300.1 → 272...	6.240	666359	315					
Flunitrazepam	314.1 → 268...	4/27/2018 10:46 P...	6.319	1812	0.84	64	314.1 → 239...	64	0.69	0.69	Flunitrazepam-D7	321.1 → 245...	6.277	36199	64					
Flurazepam	388.2 → 315...	4/27/2018 10:46 P...	6.475	287	2.53	164	388.2 → 317...	287	0.29	0.29	Zopiclone-D4	393.1 → 244...	6.109	121313	287					
Imipramine	281.2 → 86.2	4/27/2018 10:46 P...	6.364	2535	2.69	178	281.2 → 58.3	178	0.35	0.35	Imipramine-D3	284.2 → 61.3	6.303	13395...	178					
Levamisole	205.1 → 91.2	4/27/2018 10:46 P...	4.463	222	0.26	435	205.1 → 178...	435	452.11	452.11	Cocaine-D3	307.2 → 185...	5.607	583716	435					
Maprotiline	278.2 → 91.2	4/27/2018 10:46 P...	5.796	1696	1.18	17	278.2 → 117...	17	0.69	0.69	Meperidine-D4	252.2 → 224...	5.617	76382	17					
MDEA	180.1 → 163...	4/27/2018 10:46 P...	5.337	3270	0.86	467	180.1 → 105...	467	0.83	0.83	MDA-D5	185.1 → 168...	5.073	74607	467					
MDEA	208.1 → 163...	4/27/2018 10:46 P...					208.1 → 105...				MDEA-D6	214.2 → 166...	5.356	423257						
MDMA	194.1 → 163...	4/27/2018 10:46 P...	5.459	511	1.13	450	194.1 → 105...	450	1.40	1.40	MDMA-D6	200.2 → 166...	5.214	23327	450					
Meperidine	248.2 → 220...	4/27/2018 10:46 P...	5.638	782390	189.30	228	248.2 → 174...	228	0.58	0.58	Meperidine-D4	252.2 → 224...	5.617	76382	228					
Methylphenidate	234.2 → 84.2	4/27/2018 10:46 P...	6.047	2589	0.76	3459	234.2 → 56.3	3459	441.19	441.19	Meperidine-D4	252.2 → 224...	5.617	76382	3459					
Metoprolol	268.2 → 116...	4/27/2018 10:46 P...	5.512	329635	622.66	17	268.2 → 56.3	17	0.54	0.54	Midazolam-D4	330.1 → 295...	6.457	544019	17					
Midazolam	326.1 → 223...	4/27/2018 10:46 P...	6.823	109	3.03	467	326.1 → 249...	467	0.83	0.83	Midazolam-D4	330.1 → 295...	6.457	544019	467					
Mirtazapine	266.2 → 195...	4/27/2018 10:46 P...	6.002	511	1.62	256	266.2 → 72.3	256	0.41	0.41	Carbamazepine-13C6	289.2 → 72.3	5.652	754365	256					
Mitragynine	399.2 → 174...	4/27/2018 10:46 P...					399.2 → 238...				Normeperidine-D4	238.2 → 164...	5.598	369457						
Normeperidine	234.1 → 42.3	4/27/2018 10:46 P...	5.966	814	0.59	435	234.1 → 160...	435	0.69	0.69	Normeperidine-D4	238.2 → 164...	5.598	369457	435					
Norpropoxyphene	326.2 → 44.3	4/27/2018 10:46 P...	6.235	378	1.20	263	326.2 → 252...	263	17.23	17.23	Norpropoxyphene-D5	331.2 → 44.3	6.153	70125	263					
Nortriptyline	264.2 → 91.2	4/27/2018 10:46 P...	6.368	1481	0.69	290	264.2 → 233...	290	1.03	1.03	Nortriptyline-D3	267.2 → 233...	6.306	354724	290					
Ondansetron	294.2 → 184...	4/27/2018 10:46 P...	5.773	168	2.97	462	294.2 → 212...	462	0.52	0.52	Pentazocine-13C3	289.2 → 72.3	5.652	754365	462					
Pentazocine	286.2 → 218...	4/27/2018 10:46 P...	5.329	47	0.29	566	286.2 → 41.3	566	0.51	0.51	Pentazocine-13C3	289.2 → 72.3	5.652	754365	566					
Phenazepam	349.0 → 206...	4/27/2018 10:46 P...	6.334	261	1.27	263	349.0 → 183...	261	0.19	0.19	Phenazepam-D4	353.0 → 183...	6.333	26665	261					
Phencyclidine	244.2 → 86.2	4/27/2018 10:46 P...	5.882	486	26.75	407	244.2 → 91.1	407	1.68	1.68	Phencyclidine-D5	249.2 → 86.2	5.882	574331	407					
Phenytolol	253.1 → 104...	4/27/2018 10:46 P...	5.800	37	51.59	526	253.1 → 182...	526	6.74	6.74	Phenytolol-D10	263.2 → 192...	5.881	22664	526					
Praxepam	325.1 → 271...	4/27/2018 10:46 P...					325.1 → 140...				Praxepam-D5	330.1 → 276...	6.781	20330...						
Primidone	219.1 → 91.2	4/27/2018 10:46 P...	5.212	212	1.52	35	219.1 → 162...	35	17.23	17.23	Praxepam-D5	330.1 → 276...	6.781	20330...	35					
Propoxyphene	340.2 → 58.3	4/27/2018 10:46 P...	6.051	351	0.48	290	340.2 → 266...	290	0.19	0.19	Propoxyphene-D11	351.3 → 277...	6.172	133010	290					
Protriptyline	264.2 → 155...	4/27/2018 10:46 P...	6.428	212	4.94	462	264.2 → 161...	462	1.48	1.48	Nortriptyline-D3	267.2 → 233...	6.306	354724	462					
Pseudoephedrine	166.1 → 148...	4/27/2018 10:46 P...	4.508	702	0.40	263	166.1 → 133...	263	0.52	0.52	Pseudoephedrine-D3	169.1 → 151...	4.709	299570	263					
Tapentadol	222.2 → 107...	4/27/2018 10:46 P...	5.600	1183	0.98	601	222.2 → 121...	601	0.89	0.89	Tapentadol-D3	225.2 → 107...	5.497	503573	601					
Trimipramine	295.2 → 100...	4/27/2018 10:46 P...	6.809	601	1.07	407	295.2 → 58.3	407	0.51	0.51	Trimipramine-D3	298.2 → 103...	6.383	18453...	407					
Verapamil	455.3 → 165...	4/27/2018 10:46 P...	6.250	76	0.89	54	455.3 → 150...	54	4.51	4.51	Trimipramine-D3	298.2 → 103...	6.383	18453...	54					
Zaleplon	306.1 → 236...	4/27/2018 10:46 P...	5.587	112	1.33	407	306.1 → 264...	407	1.13	1.13	Zaleplon-D4	310.2 → 240...	6.096	171156	407					
Zopiclone	389.1 → 244...	4/27/2018 10:46 P...	6.150	54	1.13	54	389.1 → 216...	54	1.13	1.13	Zopiclone-D4	393.1 → 244...	6.109	121313	54					

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