

*Bylee*

**Worklist: 1761**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-0951	1	84917	AM 25/AM 26 Blood MultiDrug/	
C2017-0952	1	84919	AM 25/AM 26 Blood MultiDrug/	
C2017-0964	1	85003	AM 25/AM 26 Blood MultiDrug/	
C2017-1014	1	85506	AM 25/AM 26 Blood MultiDrug/	
C2017-1073	1	87071	AM 25/AM 26 Blood MultiDrug/	
C2017-1075	1	86104	AM 25/AM 26 Blood MultiDrug/	
C2017-1076	1	86106	AM 25/AM 26 Blood MultiDrug/	
C2017-1077	1	86108	AM 25/AM 26 Blood MultiDrug/	
C2017-1078	1	86111	AM 25/AM 26 Blood MultiDrug/	
C2017-1084	1	86237	AM 25/AM 26 Blood MultiDrug/	
C2017-1085	1	86239	AM 25/AM 26 Blood MultiDrug/	
C2017-1087	1	86307	AM 25/AM 26 Blood MultiDrug/	
C2017-1102	1	86391	AM 25/AM 26 Blood MultiDrug/	
C2017-1118	1	86524	AM 25/AM 26 Blood MultiDrug/	
C2017-1119	1	86526	AM 25/AM 26 Blood MultiDrug/	
C2017-1120	2	86529	AM 25/AM 26 Blood MultiDrug/	
C2017-1130	1	86686	AM 25/AM 26 Blood MultiDrug/	
M2017-1652	1	86983	AM 25/AM 26 Blood MultiDrug/	
M2017-1658	1	86982	AM 25/AM 26 Blood MultiDrug/	
M2017-1668	1	86981	AM 25/AM 26 Blood MultiDrug/	
M2017-1756	1	86980	AM 25/AM 26 Blood MultiDrug/	
M2017-1793	1	86913	AM 25/AM 26 Blood MultiDrug/	
M2017-1793	2	86912	AM 25/AM 26 Blood MultiDrug/	

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*BWylee*

**Worklist: 1761**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2017-1828	1	86979	AM 25/AM 26 Blood MultiDrug/	
M2017-1893	1	86978	AM 25/AM 26 Blood MultiDrug/	
M2017-1894	1	86977	AM 25/AM 26 Blood MultiDrug/	
M2017-1896	1	86974	AM 25/AM 26 Blood MultiDrug/	
M2017-1897	1	86911	AM 25/AM 26 Blood MultiDrug/	
M2017-1897	2	86910	AM 25/AM 26 Blood MultiDrug/	
M2017-2289	1	86080	AM 25/AM 26 Blood MultiDrug/	
P2017-1013	1	86973	AM 25/AM 26 Blood MultiDrug/	
P2017-1066	1	86972	AM 25/AM 26 Blood MultiDrug/	
P2017-1067	1	86971	AM 25/AM 26 Blood MultiDrug/	
P2017-1127	1	85667	AM 25/AM 26 Blood MultiDrug/	
P2017-1187	1	86099	AM 25/AM 26 Blood MultiDrug/	

*[Signature]*

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

Extraction Date: 6-13-17

Analyst: Anne Nord

## PRE-ANALYTIC

Plate Lot# 0495940

Plate. Exp. 12/12/2017

1. Ensure all solutions are within expiration date.

- Mobile Phase A: **10mM Amm Formate**
- Mobile Phase B **0.1% FA in MeOH**
- Blank/Negative Blood: Lot **321623-1**
- **0.5M Ammonium Hydroxide**
- Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
- **Ethyl Acetate**

✓ 2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.

✓ 3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.

✓ 4. Create worklist. Data path name: 6-13-17 blood screen AM 25-26

## ANALYTIC

✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.

✓ 2. Pipette **250µL blood (calibrated pipette)** in wells of analytical (standards) plate.

- Blank blood for locations containing standards/QCs and internal standards
- Sample blood for locations containing only internal standards

✓ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID 66759*

✓ 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 66729

✓ Wait 5 min.

✓ 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 ID 66819*

✓ 13. Reconstitute in **100µL 100% 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: 61317 md screen a

✓ 2. Make any necessary integration changes.

✓ 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. > 1/5 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:

Toxicology AMI method 25 external prep information

working solution 10000 ng/ml in meoh mirtazapine, amitriptyline, codeine, diphenhydramine, 20000 ng/ml meoh morphine  
Stock solution 1mg/ml 100 ul each for all except morphine 200 ul in 9400 ul meoh

Ppd 3/31/17 Exp: 9/21/17 lot 92117



Drug	lot	expiration
Morphine	fe08141515	11/1/2020
mirtazapine	fe04201503	4/1/2020
amitriptyline	fn07081401	9/1/2019
codeine	fe10271401	11/1/2019
diphenhydramine	fn09161502	9/1/2020

AM 25 control 100 ul working solution in 9900 ul blood lot 62117

ppd 3/21/17 Exp 6/21/17

by AMN

Concentration 100ng/ml amitriptyline, codeine, diphenhydramine, mirtazapine

200/ng/ml morphine



Compound Method		p1 cal 1a		p1 cal 1a Results		Qualifier 1 M...		ISTD Method			
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	6/13/2017 6:55 PM	5.503	2381	15.28	328.2 -> 211...	153.69	6-MAM-D6	334.2 -> 165...	5.462	69705
7-Aminoclonazepam	286.1 -> 121...	6/13/2017 6:55 PM	5.611	47543	364.87	286.1 -> 222...	251.64	7-Aminoclonazepam-D4	290.1 -> 121...	5.610	191025
Acetyl Fentanyl	323.2 -> 105...	6/13/2017 6:55 PM	6.176	29674	13.74	323.2 -> 188...	113.24	Acetyl Fentanyl-D5	328.2 -> 105...	6.174	18904...
Acetyl Norfentanyl	219.1 -> 84.2	6/13/2017 6:55 PM	5.111	12343	2943.90	219.1 -> 56.3	Infinity	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.091	629902
a-hydroxy/alprazolam	325.1 -> 297...	6/13/2017 6:55 PM	6.440	8848	17.29	325.1 -> 215...	15.26	a-hydroxy/alprazolam-D5	330.1 -> 302...	6.439	48301
alpha-PVP	232.2 -> 91.0	6/13/2017 6:55 PM	5.885	156912	60.43	232.2 -> 77.1	29.42	alpha-PVP-D8	240.2 -> 91.1	5.843	748166
Alprazolam	309.1 -> 281...	6/13/2017 6:55 PM	6.525	71909	878.99	309.1 -> 205...	14556...	Alprazolam-D5	314.1 -> 286...	6.504	267019
Amphetamine	136.1 -> 91.1	6/13/2017 6:55 PM	5.053	231850	31.58	136.1 -> 119...	8.61	Amphetamine-D11	147.2 -> 130...	5.012	185739
Bupropion	240.1 -> 184...	6/13/2017 6:55 PM	6.066	161369	358.01	240.1 -> 131...	50.73	Bupropion-D9	249.2 -> 185...	6.025	725968
Carisoprodol	261.2 -> 176...	6/13/2017 6:55 PM	6.167	75783	17.35	261.2 -> 55.3	18.70	Carisoprodol-D7	268.2 -> 183...	6.166	516854
Chllopram	325.2 -> 109...	6/13/2017 6:55 PM	6.215	243074	93.94	325.2 -> 262...	7828.93	Chllopram-D6	331.2 -> 109...	6.214	11391...
Clonazepam	316.1 -> 269...	6/13/2017 6:55 PM	6.381	22159	3377.32	316.1 -> 213...	37.27	Clonazepam-D4	320.1 -> 217...	6.360	30202
Codaine	300.2 -> 215...	6/13/2017 6:55 PM	5.486	13198	296.47	300.2 -> 165...	118.51	Codaine-D6	306.2 -> 218...	5.445	55941
Cyclobenzaprine	276.2 -> 214...	6/13/2017 6:55 PM	6.532	146579	12698.00	276.2 -> 231...	176.97	Cyclobenzaprine-D3	279.2 -> 215...	6.510	698289
Dextromethorphan	272.2 -> 171...	6/13/2017 6:55 PM	6.288	69346	76.45	272.2 -> 147...	6872.53	Dextromethorphan-D3	275.2 -> 171...	6.288	337786
Dextrophan	288.2 -> 157...	6/13/2017 6:55 PM	5.657	52222	335.51	288.2 -> 133...	809.16	Dextrophan-D3	261.2 -> 157...	5.656	301822
Diazepam	285.1 -> 193...	6/13/2017 6:55 PM	6.752	60021	100.94	285.1 -> 153...	53.41	Diazepam-D5	290.1 -> 198...	6.730	252200
Dihydrocodeine	302.2 -> 198...	6/13/2017 6:55 PM	5.263	29611	33.41	302.2 -> 128...	52.47	Dihydrocodeine-D6	308.2 -> 202...	5.221	168052
Diphenhydramine	256.2 -> 167...	6/13/2017 6:55 PM	6.208	340633	106.82	256.2 -> 152...	84.17	Diphenhydramine-D3	259.2 -> 167...	6.188	19736...
Doxylamine	271.2 -> 182...	6/13/2017 6:55 PM	5.880	344609	61.46	271.2 -> 167...	123.12	Doxylamine-D5	276.2 -> 187...	5.859	16924...
EDDP	327.2 -> 235...	6/13/2017 6:55 PM	6.204	226873	1409.71	279.2 -> 250...	53.00	EDDP-D3	282.2 -> 235...	6.204	105343
Fentanyl	379.2 -> 105...	6/13/2017 6:55 PM	6.356	33583	Infinity	379.2 -> 188...	286.41	Fentanyl-D5	342.3 -> 105...	6.356	17702...
Fluoxetine	310.1 -> 44.3	6/13/2017 6:55 PM	6.423	370554	366.89	310.1 -> 148...	32.69	Fluoxetine-D6	316.2 -> 44.3	6.422	17245...
Hydrocodone	300.2 -> 198...	6/13/2017 6:55 PM	5.651	45549	68.95	300.2 -> 128...	28.32	Hydrocodone-D6	306.2 -> 202...	5.629	227682
Hydromorphone	286.2 -> 184...	6/13/2017 6:55 PM	5.143	29402	Infinity	286.2 -> 157...	75.65	Hydromorphone-D6	292.2 -> 185...	5.081	97182
Ketamine	238.1 -> 125...	6/13/2017 6:55 PM	6.006	107873	306.07	238.1 -> 220...	13.30	Ketamine-D4	242.1 -> 129...	6.005	473827
Mepramate	219.1 -> 158...	6/13/2017 6:55 PM	5.701	18950	6.64	219.1 -> 97.1	9.50	Mepramate-D7	226.2 -> 165...	5.681	115423
Methadone	310.2 -> 265...	6/13/2017 6:55 PM	6.504	308904	220.60	310.2 -> 105...	198.44	Methadone-D9	319.3 -> 268...	6.503	16141...
Methamphetamine	150.1 -> 91.1	6/13/2017 6:55 PM	5.275	428642	Infinity	150.1 -> 119...	19.07	Methamphetamine-D11	161.2 -> 97.1	5.213	490998
Morphine	286.2 -> 201...	6/13/2017 6:55 PM	4.940	6357	9.13	286.2 -> 165...	38.05	Morphine-D6	282.2 -> 152...	4.838	4757
Naloxone	328.2 -> 326...	6/13/2017 6:55 PM	5.308	55999	108.77	328.2 -> 211...	65.80	Naloxone-D5	333.2 -> 315...	5.767	375624
Naltrexone	344.2 -> 326...	6/13/2017 6:55 PM	5.339	112094	19227.86	344.2 -> 308...	1926.39	Naltrexone-D3	347.2 -> 329...	5.298	456838
Norbuprenorphine	414.3 -> 101...	6/13/2017 6:55 PM	6.008	10648	1767.20	414.3 -> 57.3	27.88	Naltrexone-D3	345.2 -> 327...	5.521	282255
Nordiazepam	271.1 -> 140...	6/13/2017 6:55 PM	6.594	27592	69.10	271.1 -> 208...	9.99	Norbuprenorphine-D3	417.3 -> 101...	6.008	46264
Norfentanyl	233.2 -> 84.2	6/13/2017 6:55 PM	5.558	187289	2247.86	233.2 -> 55.3	37.98	Nordiazepam-D5	276.1 -> 140...	6.593	87125
Norhydrocodone	286.2 -> 199...	6/13/2017 6:55 PM	5.245	3384	Infinity	286.2 -> 171...	230.39	Norfentanyl-D5	238.2 -> 84.2	5.536	853470
Noroxycodone	302.1 -> 284...	6/13/2017 6:55 PM	5.140	42662	10.52	302.1 -> 186...	34.43	Norhydrocodone-D3	305.2 -> 287...	5.140	184602
O-desmethyl-tramadol	250.2 -> 58.3	6/13/2017 6:55 PM	5.168	241052	269.87	250.2 -> 42.3	35.25	O-desmethyl-tramadol...	256.2 -> 64.3	5.148	11179...
Oxazepam	287.1 -> 240...	6/13/2017 6:55 PM	6.447	19415	Infinity	287.1 -> 268...	Infinity	Oxazepam-D5	292.1 -> 246...	6.447	95893
Oxycodone	316.2 -> 298...	6/13/2017 6:55 PM	5.423	76450	25.94	316.2 -> 241...	101.45	Oxycodone-D6	322.2 -> 304...	5.383	378717
Oxymorphone	150.1 -> 284...	6/13/2017 6:55 PM	4.796	80077	24.01	302.1 -> 227...	59.17	Oxymorphone-D3	305.2 -> 287...	4.735	401598
Pentamizine	285.1 -> 86.2	6/13/2017 6:55 PM	5.336	56882	Infinity	150.1 -> 133...	Infinity	Pentamizine-D5	155.2 -> 96.2	5.335	464885
Promethazine	384.2 -> 253...	6/13/2017 6:55 PM	6.570	498440	5688.78	384.2 -> 71.3	67.69	Promethazine-D3	288.2 -> 89.2	6.549	27743...
Quetiapine	384.2 -> 253...	6/13/2017 6:55 PM	6.658	379203	986.82	384.2 -> 221...	489.44	Quetiapine-D8	392.2 -> 226...	6.637	511647
Sertraline	306.1 -> 155...	6/13/2017 6:55 PM	6.689	76009	355.80	306.1 -> 275...	386.47	Sertraline-D3	309.1 -> 275...	6.687	398080
Sufentanil	387.2 -> 238...	6/13/2017 6:55 PM	6.698	34202	6983.70	387.2 -> 111...	32.84	Sufentanil-D5	392.2 -> 238...	6.698	13415...

Compound Method		p1 cal 1a		p1 cal 1a Results			Qualifier 1 M...		Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.			
Tenazepam	301.1 -> 255..	6/13/2017 6:55 PM	6.568	104692	90.66	301.1 -> 283..	24.16	Tenazepam-D5	306.1 -> 260...	6.567	512006			
Tamadol	264.2 -> 58.3	6/13/2017 6:55 PM	5.677	310801	151.67	264.2 -> 43.3	13.78	Tamadol-13C-D3	268.2 -> 58.3	5.676	15479...			
Trazodone	372.2 -> 176..	6/13/2017 6:55 PM	6.821	385189	623.73	372.2 -> 148..	265.86	Trazodone-D6	378.2 -> 182...	6.781	16452...			
Venlafaxine	278.2 -> 58.3	6/13/2017 6:55 PM	5.980	312115	123.34	278.2 -> 260..	30.15	Venlafaxine-D6	284.2 -> 64.3	5.959	14235...			
Zolpidem	308.2 -> 235..	6/13/2017 6:55 PM	6.424	297084	956.30	308.2 -> 263..	430.34	Zolpidem-D6	314.2 -> 235..	6.402	15389...			

Compound Method				p1 negative				p1 negative Results				ISTD Method			
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	S/N	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	6/13/2017 7:14 PM	5.503	654	0.89	328.2 -> 211...	7.97	6-MAM-D6	334.2 -> 165...	5.462	70935	6-MAM-D6	334.2 -> 165...	5.462	70935
7-Aminoclonazepam	286.1 -> 121...	6/13/2017 7:14 PM				286.1 -> 222...		7-Aminoclonazepam-D4	290.1 -> 121...	5.590	153869	7-Aminoclonazepam-D4	290.1 -> 121...	5.590	153869
Aceyl/ Norfentanyl	323.2 -> 105...	6/13/2017 7:14 PM				323.2 -> 188...		Aceyl/ Fentanyl-D5	328.2 -> 105...	6.154	19962...	Aceyl/ Norfentanyl-D5	328.2 -> 105...	6.154	19962...
Aceyl/ Norfentanyl	219.1 -> 84.2	6/13/2017 7:14 PM	5.131	124	0.74	219.1 -> 56.3	0.87	Aceyl/ Norfentanyl-D5	224.2 -> 84.2	5.091	668304	Aceyl/ Norfentanyl-D5	224.2 -> 84.2	5.091	668304
a-hydroxylprazolam	325.1 -> 297...	6/13/2017 7:14 PM	6.561	24	0.59	325.1 -> 215...	0.46	a-hydroxylprazolam-D5	330.1 -> 302...	6.438	55279	a-hydroxylprazolam-D5	330.1 -> 302...	6.438	55279
alpha-PVP	232.2 -> 91.0	6/13/2017 7:14 PM	5.476	190	0.44	232.2 -> 77.1	0.81	alpha-PVP-d8	240.2 -> 91.1	5.822	725637	alpha-PVP-d8	240.2 -> 91.1	5.822	725637
Alprazolam	309.1 -> 281...	6/13/2017 7:14 PM	6.363	4187	494.95	309.1 -> 205...	1.80	Alprazolam-D5	314.1 -> 286...	6.524	301049	Alprazolam-D5	314.1 -> 286...	6.524	301049
Amphetamine	136.1 -> 91.1	6/13/2017 7:14 PM	5.012	56449	24.32	136.1 -> 119...	3.05	Amphetamine-D11	147.2 -> 130...	5.012	152149	Amphetamine-D11	147.2 -> 130...	5.012	152149
Bupropion	240.1 -> 184...	6/13/2017 7:14 PM	6.066	284	0.56	240.1 -> 131...		Bupropion-D9	249.2 -> 185...	6.025	593272	Bupropion-D9	249.2 -> 185...	6.025	593272
Carisoprodol	261.2 -> 176...	6/13/2017 7:14 PM				261.2 -> 55.3		Carisoprodol-D7	268.2 -> 183...	6.166	501911	Carisoprodol-D7	268.2 -> 183...	6.166	501911
Chllopram	325.2 -> 109...	6/13/2017 7:14 PM	6.317	475	0.31	325.2 -> 262...	1.06	Chllopram-D6	331.2 -> 109...	6.214	11855...	Chllopram-D6	331.2 -> 109...	6.214	11855...
Clonazepam	316.1 -> 269...	6/13/2017 7:14 PM	6.584	53	0.45	316.1 -> 213...		Clonazepam-D4	320.1 -> 217...	6.381	34292	Clonazepam-D4	320.1 -> 217...	6.381	34292
Codeine	300.2 -> 215...	6/13/2017 7:14 PM	5.794	522	0.76	300.2 -> 165...	0.12	Codeine-D6	306.2 -> 218...	5.445	53505	Codeine-D6	306.2 -> 218...	5.445	53505
Cyclobenzaprine	276.2 -> 214...	6/13/2017 7:14 PM	6.572	97	0.51	276.2 -> 231...	0.77	Cyclobenzaprine-D3	279.2 -> 215...	6.531	707323	Cyclobenzaprine-D3	279.2 -> 215...	6.531	707323
Dextromethorphan	272.2 -> 171...	6/13/2017 7:14 PM	6.369	241	1.51	272.2 -> 147...	0.44	Dextromethorphan-D3	275.2 -> 171...	6.288	359136	Dextromethorphan-D3	275.2 -> 171...	6.288	359136
Dextrophan	258.2 -> 157...	6/13/2017 7:14 PM	5.657	218	1.12	258.2 -> 133...		Dextrophan-D3	261.2 -> 157...	5.656	329452	Dextrophan-D3	261.2 -> 157...	5.656	329452
Diazepam	285.1 -> 193...	6/13/2017 7:14 PM	6.550	1264	2.95	285.1 -> 153...	1.93	Diazepam-D5	290.1 -> 198...	6.730	270116	Diazepam-D5	290.1 -> 198...	6.730	270116
Dihydrocodeine	302.2 -> 198...	6/13/2017 7:14 PM	5.242	107	1.19	302.2 -> 128...	0.35	Dihydrocodeine-D6	308.2 -> 202...	5.221	182119	Dihydrocodeine-D6	308.2 -> 202...	5.221	182119
Diphenhydramine	256.2 -> 167...	6/13/2017 7:14 PM	5.801	1359	2.82	256.2 -> 152...	0.63	Diphenhydramine-D3	259.2 -> 167...	6.188	19528...	Diphenhydramine-D3	259.2 -> 167...	6.188	19528...
Doxylamine	271.2 -> 182...	6/13/2017 7:14 PM	5.860	451	0.43	271.2 -> 167...		Doxylamine-D5	276.2 -> 187...	5.859	18060...	Doxylamine-D5	276.2 -> 187...	5.859	18060...
EDDP	279.2 -> 235...	6/13/2017 7:14 PM	6.204	288	1.52	279.2 -> 250...		EDDP-D3	282.2 -> 235...	6.204	88986	EDDP-D3	282.2 -> 235...	6.204	88986
Fentanyl	337.2 -> 105...	6/13/2017 7:14 PM	6.539	661	0.46	337.2 -> 188...	2.45	Fentanyl-D5	342.3 -> 105...	6.356	18284...	Fentanyl-D5	342.3 -> 105...	6.356	18284...
Fluoxetine	310.1 -> 44.3	6/13/2017 7:14 PM	6.403	2511	0.67	310.1 -> 148...	0.54	Fluoxetine-D6	316.2 -> 44.3	6.422	17774...	Fluoxetine-D6	316.2 -> 44.3	6.422	17774...
Hydrocodone	300.2 -> 198...	6/13/2017 7:14 PM	5.610	65	1.65	300.2 -> 128...	0.29	Hydrocodone-D6	306.2 -> 202...	5.609	282850	Hydrocodone-D6	306.2 -> 202...	5.609	282850
Hydromorphone	286.2 -> 184...	6/13/2017 7:14 PM	5.184	770	1.17	286.2 -> 157...	1.71	Hydromorphone-D6	292.2 -> 185...	5.061	92561	Hydromorphone-D6	292.2 -> 185...	5.061	92561
Ketamine	238.1 -> 125...	6/13/2017 7:14 PM	5.536	1035	2.88	238.1 -> 220...	0.64	Ketamine-D4	242.1 -> 129...	5.985	478714	Ketamine-D4	242.1 -> 129...	5.985	478714
Meprobanate	219.1 -> 158...	6/13/2017 7:14 PM	6.109	945	0.90	219.1 -> 97.1	0.58	Meprobanate-D7	226.2 -> 165...	5.681	131582	Meprobanate-D7	226.2 -> 165...	5.681	131582
Methadone	310.2 -> 285...	6/13/2017 7:14 PM	6.484	4988	4.40	310.2 -> 105...		Methadone-D9	319.3 -> 288...	6.503	16678...	Methadone-D9	319.3 -> 288...	6.503	16678...
Methamphetamine	150.1 -> 91.1	6/13/2017 7:14 PM	5.254	191753	3.53	150.1 -> 119...	3.54	Methamphetamine-D11	161.2 -> 97.1	5.213	344779	Methamphetamine-D11	161.2 -> 97.1	5.213	344779
Morphine	286.2 -> 201...	6/13/2017 7:14 PM				286.2 -> 165...		Morphine-D6	292.2 -> 152...	4.838	4065	Morphine-D6	292.2 -> 152...	4.838	4065
Naloxone	328.2 -> 309...	6/13/2017 7:14 PM	5.889	832	0.95	328.2 -> 211...		Naloxone-D5	333.2 -> 315...	5.747	396381	Naloxone-D5	333.2 -> 315...	5.747	396381
Naltrexol	344.2 -> 326...	6/13/2017 7:14 PM	5.521	7983	72.36	344.2 -> 308...	39.81	Naltrexol-D3	347.2 -> 329...	5.277	482418	Naltrexol-D3	347.2 -> 329...	5.277	482418
Naltrexone	342.2 -> 324...	6/13/2017 7:14 PM	5.218	42	2.77	342.2 -> 55.3		Naltrexone-D3	345.2 -> 327...	5.501	308302	Naltrexone-D3	345.2 -> 327...	5.501	308302
Norbuprenorphine	414.3 -> 101...	6/13/2017 7:14 PM	6.029	376	8.49	414.3 -> 57.3	1.88	Norbuprenorphine-D3	417.3 -> 101...	6.008	44603	Norbuprenorphine-D3	417.3 -> 101...	6.008	44603
Nordiazepam	271.1 -> 140...	6/13/2017 7:14 PM				271.1 -> 208...		Nordiazepam-D5	276.1 -> 140...	6.593	101058	Nordiazepam-D5	276.1 -> 140...	6.593	101058
Norfentanyl	233.2 -> 84.2	6/13/2017 7:14 PM	5.516	165	1.65	233.2 -> 55.3	1.17	Norfentanyl-D5	238.2 -> 84.2	5.536	934817	Norfentanyl-D5	238.2 -> 84.2	5.536	934817
Norhydrocodone	286.2 -> 199...	6/13/2017 7:14 PM	5.387	69	0.55	286.2 -> 171...	0.28	Norhydrocodone-D3	289.2 -> 202...	5.204	80832	Norhydrocodone-D3	289.2 -> 202...	5.204	80832
Noroxycodone	302.1 -> 284...	6/13/2017 7:14 PM	5.140	1266	1.63	302.1 -> 186...	0.93	Noroxycodone-D3	305.2 -> 287...	5.119	187359	Noroxycodone-D3	305.2 -> 287...	5.119	187359
O-desmethyl-tramadol	250.2 -> 58.3	6/13/2017 7:14 PM	5.128	888	2.85	250.2 -> 42.3	0.32	O-desmethyl-tramadol...	256.2 -> 64.3	5.128	11920...	O-desmethyl-tramadol...	256.2 -> 64.3	5.128	11920...
Oxazepam	287.1 -> 240...	6/13/2017 7:14 PM	6.630	233	0.72	287.1 -> 268...		Oxazepam-D5	292.1 -> 246...	6.426	120257	Oxazepam-D5	292.1 -> 246...	6.426	120257
Oxycodone	316.2 -> 298...	6/13/2017 7:14 PM	5.464	464	126.51	316.2 -> 241...		Oxycodone-D6	322.2 -> 304...	5.362	388964	Oxycodone-D6	322.2 -> 304...	5.362	388964
Oxymorphone	302.1 -> 284...	6/13/2017 7:14 PM	4.917	151	2.32	302.1 -> 227...		Oxymorphone-D3	305.2 -> 287...	4.735	399108	Oxymorphone-D3	305.2 -> 287...	4.735	399108
Phentemine	150.1 -> 65.2	6/13/2017 7:14 PM	5.295	9277	Infinity	150.1 -> 133...		Phentemine-D5	155.2 -> 96.2	5.335	412598	Phentemine-D5	155.2 -> 96.2	5.335	412598
Promethazine	285.1 -> 86.2	6/13/2017 7:14 PM	6.550	1044	1.74	285.1 -> 71.3	0.38	Promethazine-D3	288.2 -> 89.2	6.549	25627...	Promethazine-D3	288.2 -> 89.2	6.549	25627...
Quetiapine	384.2 -> 253...	6/13/2017 7:14 PM	6.679	308	1.26	384.2 -> 221...	0.58	Quetiapine-D8	392.2 -> 226...	6.637	519206	Quetiapine-D8	392.2 -> 226...	6.637	519206
Seftaline	306.1 -> 158...	6/13/2017 7:14 PM	6.689	64	0.26	306.1 -> 275...		Seftaline-D3	309.1 -> 275...	6.707	391946	Seftaline-D3	309.1 -> 275...	6.707	391946
Sufentanil	387.2 -> 238...	6/13/2017 7:14 PM	6.719	1858	6.58	387.2 -> 111...	2.76	Sufentanil-D5	392.2 -> 238...	6.698	13778...	Sufentanil-D5	392.2 -> 238...	6.698	13778...

Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...		Quali...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.			
Temazepam	301.1 -> 255...	6/13/2017 7:14 PM	6.303	382	0.94	301.1 -> 283...	2.10	Temazepam-D5	306.1 -> 260...	6.567	579136			
Tramadol	264.2 -> 58.3	6/13/2017 7:14 PM	5.677	6991	5.74	264.2 -> 43.3	0.46	Tramadol-13C-D3	268.2 -> 58.3	5.656	15969...			
Trazodone	372.2 -> 176...	6/13/2017 7:14 PM	6.821	2900	5.92	372.2 -> 148...	1.85	Trazodone-D6	378.2 -> 182...	6.801	17887...			
Venlafaxine	278.2 -> 58.3	6/13/2017 7:14 PM	5.980	775	0.71	278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	5.959	15094...			
Zolpidem	308.2 -> 235...	6/13/2017 7:14 PM	6.302	212	1.32	308.2 -> 263...		Zolpidem-D6	314.2 -> 235...	6.422	16741...			

Compound Method		p1 external control		p1 external control Results		Qualifier 1...		Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.		
6-MAM	328.2 -> 165...	6/13/2017 7:34 PM	5.300	643	0.32	328.2 -> 211...		6-MAM-D6	334.2 -> 165...	5.462	69603		
7-Aminoclonazepam	286.1 -> 121...	6/13/2017 7:34 PM				286.1 -> 222...		7-Aminoclonazepam-D4	290.1 -> 121...	5.610	189543		
Acetyl Nortentanyl	323.2 -> 105...	6/13/2017 7:34 PM				323.2 -> 188...		Acetyl Nortentanyl-D5	328.2 -> 105...	6.174	19314...		
Acetyl Nortentanyl	219.1 -> 84.2...	6/13/2017 7:34 PM	5.091	91	1.05	219.1 -> 56.3...	3.19	Acetyl Nortentanyl-D5	224.2 -> 84.2...	5.091	654894		
a-hydroxyalprazolam	325.1 -> 297...	6/13/2017 7:34 PM	6.501	137	1.15	325.1 -> 215...		a-hydroxyalprazolam-D5	330.1 -> 302...	6.438	51563		
alpha-PVP	232.2 -> 91.0...	6/13/2017 7:34 PM	6.027	185	1.04	232.2 -> 77.1...		alpha-PVP-D8	240.2 -> 91.1...	5.843	75566		
Alprazolam	309.1 -> 281...	6/13/2017 7:34 PM	6.363	3039	5.92	309.1 -> 205...	0.43	Alprazolam-D5	314.1 -> 286...	6.524	296372		
Amphetamine	136.1 -> 91.1...	6/13/2017 7:34 PM	5.032	32055	10.11	136.1 -> 119...	1.13	Amphetamine-D11	147.2 -> 130...	5.012	159378		
Bupropion	240.1 -> 184...	6/13/2017 7:34 PM	6.046	143	0.61	240.1 -> 131...	1.59	Bupropion-D9	249.2 -> 185...	6.025	731376		
Carisoprodol	261.2 -> 176...	6/13/2017 7:34 PM				261.2 -> 55.3...		Carisoprodol-D7	268.2 -> 183...	6.166	491405		
Chllopram	325.2 -> 109...	6/13/2017 7:34 PM	6.317	399	0.86	325.2 -> 262...	3.80	Chllopram-D6	331.2 -> 109...	6.214	11464...		
Clonazepam	316.1 -> 269...	6/13/2017 7:34 PM	6.523	313	1.57	316.1 -> 213...	1.25	Clonazepam-D4	320.1 -> 217...	6.380	32074		
Codeine	300.2 -> 215...	6/13/2017 7:34 PM	5.486	109839	658.68	300.2 -> 165...	1390.69	Codeine-D6	306.2 -> 218...	5.445	56021		
Cyclobenzaprine	276.2 -> 214...	6/13/2017 7:34 PM	6.552	394	Infinity	276.2 -> 231...	0.77	Cyclobenzaprine-D3	279.2 -> 215...	6.531	742039		
Dextromethorphan	272.2 -> 171...	6/13/2017 7:34 PM	6.349	44	2.26	272.2 -> 147...	0.59	Dextromethorphan-D3	275.2 -> 171...	6.288	342016		
Dextrophan	258.2 -> 157...	6/13/2017 7:34 PM	5.637	82	0.89	258.2 -> 133...		Dextrophan-D3	261.2 -> 157...	5.656	312119		
Diazepam	285.1 -> 193...	6/13/2017 7:34 PM	6.833	203	0.62	285.1 -> 153...	0.87	Diazepam-D5	290.1 -> 198...	6.751	262044		
Dihydrocodeine	302.2 -> 198...	6/13/2017 7:34 PM	4.957	40	0.96	302.2 -> 128...	161.45	Dihydrocodeine-D6	308.2 -> 202...	5.221	178621		
Diphenhydramine	256.2 -> 167...	6/13/2017 7:34 PM	6.208	35416...	1283.60	256.2 -> 152...	1786.87	Diphenhydramine-D3	259.2 -> 167...	6.188	19288...		
Doxylamine	271.2 -> 182...	6/13/2017 7:34 PM				271.2 -> 167...		Doxylamine-D5	276.2 -> 187...	5.859	17382		
EDDP	279.2 -> 235...	6/13/2017 7:34 PM	6.224	137	0.43	279.2 -> 250...		EDDP-D3	282.2 -> 235...	6.224	116827		
Fentanyl	337.2 -> 105...	6/13/2017 7:34 PM	6.336	418	0.61	337.2 -> 188...		Fentanyl-D5	342.2 -> 105...	6.356	17649...		
Fluoxetine	310.1 -> 44.3...	6/13/2017 7:34 PM	6.444	1339	0.94	310.1 -> 148...	0.18	Fluoxetine-D6	316.2 -> 44.3...	6.422	17964...		
Hydrocodone	300.2 -> 198...	6/13/2017 7:34 PM	5.486	66725	233.23	300.2 -> 128...	222.91	Hydrocodone-D6	306.2 -> 202...	5.609	263122		
Hydromorphone	286.2 -> 184...	6/13/2017 7:34 PM	4.920	62528	84.31	286.2 -> 157...	630400...	Hydromorphone-D6	292.2 -> 185...	5.081	101135		
Ketamine	238.1 -> 125...	6/13/2017 7:34 PM	5.823	222	0.42	238.1 -> 220...	0.34	Ketamine-D4	242.1 -> 129...	6.005	482246		
Meprobamate	219.1 -> 158...	6/13/2017 7:34 PM				219.1 -> 97.1...		Meprobamate-D7	226.2 -> 165...	5.681	125809		
Methadone	310.2 -> 265...	6/13/2017 7:34 PM	6.484	4900	5.82	310.2 -> 105...		Methadone-D9	319.3 -> 268...	6.523	16653...		
Methamphetamine	150.1 -> 91.1...	6/13/2017 7:34 PM	5.254	170649	108.32	150.1 -> 119...	1.59	Methamphetamine-D11	161.2 -> 97.1...	5.213	381402		
Morphine	286.2 -> 201...	6/13/2017 7:34 PM	4.920	122740	191.97	286.2 -> 165...	832.31	Morphine-D6	292.2 -> 152...	4.818	4634		
Naloxone	328.2 -> 309...	6/13/2017 7:34 PM	6.195	15	Infinity	328.2 -> 211...		Naloxone-D5	333.2 -> 315...	5.767	406284		
Naltrexol	344.2 -> 324...	6/13/2017 7:34 PM	5.521	8283	8.21	344.2 -> 308...	3.02	Naltrexol-D3	347.2 -> 329...	5.277	475200		
Naltrexone	342.2 -> 324...	6/13/2017 7:34 PM	5.299	47	0.63	342.2 -> 55.3...	0.99	Naltrexone-D3	345.2 -> 327...	5.521	315479		
Nortuprenorphine	414.3 -> 101...	6/13/2017 7:34 PM	6.110	98	2.78	414.3 -> 57.3...	2.75	Nortuprenorphine-D3	417.3 -> 101...	6.008	47509		
Nordiazepam	271.1 -> 140...	6/13/2017 7:34 PM	6.390	180	0.62	271.1 -> 208...	6.20	Nordiazepam-D5	276.1 -> 140...	6.613	94458		
Nortentanyl	233.2 -> 84.2...	6/13/2017 7:34 PM	5.558	48	0.76	233.2 -> 55.3...	2.34	Nortentanyl-D5	238.2 -> 84.2...	5.536	879252		
Norhydrocodone	286.2 -> 199...	6/13/2017 7:34 PM	4.920	4364	9.97	286.2 -> 171...	19.86	Norhydrocodone-D3	289.2 -> 202...	5.224	82784		
Noroxycodone	302.1 -> 284...	6/13/2017 7:34 PM	5.140	1701	1.19	302.1 -> 186...	0.78	Noroxycodone-D3	305.2 -> 287...	5.119	186296		
O-desmethyltramadol	250.2 -> 58.3...	6/13/2017 7:34 PM	5.148	1786	2.67	250.2 -> 42.3...	0.44	O-desmethyltramadol...	256.2 -> 64.3...	5.128	11325...		
Oxazepam	287.1 -> 240...	6/13/2017 7:34 PM	6.202	428	2.09	287.1 -> 268...	0.65	Oxazepam-D5	292.1 -> 246...	6.447	117674		
Oxycodone	316.2 -> 298...	6/13/2017 7:34 PM	5.566	884	2.20	316.2 -> 241...	0.42	Oxycodone-D6	322.2 -> 304...	5.362	399085		
Oxymorphone	302.1 -> 284...	6/13/2017 7:34 PM				302.1 -> 227...		Oxymorphone-D3	305.2 -> 287...	4.735	385635		
Phentermine	150.1 -> 65.2...	6/13/2017 7:34 PM	5.518	542	Infinity	150.1 -> 133...	Infinity	Phentermine-D5	155.2 -> 96.2...	5.335	397861		
Promethazine	285.1 -> 86.2...	6/13/2017 7:34 PM	6.610	191	0.47	285.1 -> 71.3...		Promethazine-D3	288.2 -> 89.2...	6.569	28053...		
Quetiapine	384.2 -> 253...	6/13/2017 7:34 PM	6.719	341	2.04	384.2 -> 221...	0.55	Quetiapine-D8	392.2 -> 226...	6.637	508902		
Seftaline	306.1 -> 158...	6/13/2017 7:34 PM	6.830	51	4.60	306.1 -> 275...	6.90	Seftaline-D3	309.1 -> 275...	6.707	418843		
Sufentanil	387.2 -> 238...	6/13/2017 7:34 PM	6.719	2020	14.97	387.2 -> 111...	3.05	Sufentanil-D5	392.2 -> 238...	6.718	13846...		

Compound Method	p1 external control		p1 external control Results		ISTD Method		ISTD Results				
Name	Transition	Acq. Date-Time	RT	Resp.	Qualifier 1 M...	S/N	Qualifier...	Name	Transition	RT	Resp.
Tamazepam	301.1 -> 255..	6/13/2017 7:34 PM	6.831	318	301.1 -> 283...	0.55		Tamazepam-D5	306.1 -> 260..	6.567	553433
Tamadol	264.2 -> 58.3	6/13/2017 7:34 PM	5.677	7367	264.2 -> 43.3	3.83	0.56	Tamadol-13C-D3	268.2 -> 58.3	5.656	14806...
Trazodone	372.2 -> 176..	6/13/2017 7:34 PM	6.842	1827	372.2 -> 148...	4.21	3.53	Trazodone-D6	378.2 -> 182..	6.801	17277...
Venlafaxine	278.2 -> 58.3	6/13/2017 7:34 PM	6.307	1517	278.2 -> 260...	0.90	0.86	Venlafaxine-D6	284.2 -> 64.3	5.959	14792...
Zolpidem	308.2 -> 235..	6/13/2017 7:34 PM	6.465	441	308.2 -> 263...	0.49		Zolpidem-D6	314.2 -> 235..	6.422	15449...



Compound Method			p2 negative			p2 negative Results			ISTD Method			
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	S/N	Qualifier...	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	6/13/2017 7:24 PM	5.967	2063	13.37	284.1 -> 93.2	94.86		7-aminoflunitrazepam-D7	291.2 -> 138...	5.782	239339
alpha-hydroxymidazolam	342.1 -> 324...	6/13/2017 7:24 PM	6.610	120	1.55	342.1 -> 203...			alpha-hydroxymidazolam-...	346.1 -> 328...	6.508	552495
Amiripylilne	278.2 -> 91.2	6/13/2017 7:24 PM	6.417	1773	0.56	278.2 -> 105...	Infini...		Amiripylilne-D3	281.2 -> 91.2	6.619	675503
Amoxapine	314.1 -> 271...	6/13/2017 7:24 PM	6.614	97	79.29	314.1 -> 193...			Amiripylilne-D3	281.2 -> 91.2	6.619	675503
Benzylecgonine	290.1 -> 168...	6/13/2017 7:24 PM	5.373	58	0.80	290.1 -> 105...			Benzylecgonine-D8	298.2 -> 171...	5.391	6135
Carbamazepine	237.1 -> 193...	6/13/2017 7:24 PM	6.076	239	0.84	237.1 -> 194...	0.51		Carbamazepine-13C6	243.1 -> 200...	6.197	15781...
Chlordiazepoxide	300.1 -> 227...	6/13/2017 7:24 PM	6.473	710	7.92	300.1 -> 282...			Chlordiazepoxide-D5	305.1 -> 286...	6.636	281550
Clomipramine	315.2 -> 86.2	6/13/2017 7:24 PM	6.857	84	0.72	315.2 -> 58.3	0.64		Clomipramine-D3	318.2 -> 89.2	6.856	24284...
Cocaine	304.2 -> 182...	6/13/2017 7:24 PM				304.2 -> 105...			Cocaine-D3	307.2 -> 185...	5.841	969321
Desipramine	267.2 -> 72.3	6/13/2017 7:24 PM	6.540	5576	11.95	267.2 -> 44.3	4.75		Desipramine-D3	270.2 -> 75.3	6.499	18221...
Doxepin	280.2 -> 107...	6/13/2017 7:24 PM	6.233	314	0.80	280.2 -> 77.2			Doxepin-D3	283.2 -> 107...	6.334	840698
Estazolam	295.1 -> 267...	6/13/2017 7:24 PM	6.475	90	2.76	295.1 -> 205...	0.66		Estazolam-D5	300.1 -> 272...	6.453	400840
Flunitrazepam	314.1 -> 268...	6/13/2017 7:24 PM	6.513	953	2.24	314.1 -> 239...	0.80		Flunitrazepam-D7	321.1 -> 245...	6.491	12958
Flurazepam	388.2 -> 315...	6/13/2017 7:24 PM	6.506	26	0.66	388.2 -> 317...			Zopiclone-D4	393.1 -> 244...	6.404	290647
Imipramine	281.2 -> 86.2	6/13/2017 7:24 PM	6.598	6707	19.45	281.2 -> 58.3	0.68		Imipramine-D3	284.2 -> 61.3	6.577	14547...
Levamisole	205.1 -> 91.2	6/13/2017 7:24 PM				205.1 -> 178...			Cocaine-D3	307.2 -> 185...	5.841	969321
Maprotiline	278.2 -> 91.2	6/13/2017 7:24 PM	6.417	1910	0.55	278.2 -> 117...	1.16		Meperidine-D4	252.2 -> 224...	5.871	434824
MDEA	180.1 -> 163...	6/13/2017 7:24 PM				180.1 -> 105...			MDEA-D5	185.1 -> 168...	5.185	312114
MDEA	208.1 -> 163...	6/13/2017 7:24 PM				208.1 -> 105...			MDEA-D6	214.2 -> 166...	5.466	699521
MDMA	194.1 -> 163...	6/13/2017 7:24 PM	5.325	139	1.34	194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.345	63280
Meperidine	248.2 -> 220...	6/13/2017 7:24 PM	5.952	74	0.53	248.2 -> 174...	2.65		Meperidine-D4	252.2 -> 224...	5.871	434824
Methyphenidate	234.2 -> 84.2	6/13/2017 7:24 PM	5.648	31	0.30	234.2 -> 56.3	0.64		Meperidine-D4	252.2 -> 224...	5.871	434824
Metoprolol	326.1 -> 116...	6/13/2017 7:24 PM	6.673	26	0.40	326.1 -> 56.3			Meperidine-D4	252.2 -> 224...	5.871	434824
Midazolam	266.2 -> 195...	6/13/2017 7:24 PM	6.255	67	0.59	266.2 -> 72.3	0.35		Midazolam-D4	330.1 -> 295...	6.672	626628
Mirtazapine	399.2 -> 174...	6/13/2017 7:24 PM	6.606	8	0.10	399.2 -> 238...			Midazolam-D4	330.1 -> 295...	6.672	626628
Mirtazapine	234.1 -> 42.3	6/13/2017 7:24 PM				234.1 -> 160...			Carbamazepine-13C6	243.1 -> 200...	6.197	15781...
Normeperidine	326.2 -> 44.3	6/13/2017 7:24 PM	6.510	43	0.60	326.2 -> 252...	0.21		Normeperidine-D4	238.2 -> 164...	5.790	385800
Norpropoxyphene	264.2 -> 91.2	6/13/2017 7:24 PM	6.602	9309	Infinity	264.2 -> 233...	12.64		Norpropoxyphene-D5	331.2 -> 44.3	6.367	125146
Nortriptyline	294.2 -> 184...	6/13/2017 7:24 PM	6.108	51	0.98	294.2 -> 212...	1.14		Nortriptyline-D3	267.2 -> 233...	6.540	592684
Ondansetron	286.2 -> 218...	6/13/2017 7:24 PM				286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.844	654203
Pentazocine	349.0 -> 206...	6/13/2017 7:24 PM	6.508	2307	15.95	349.0 -> 183...			Pentazocine-13C3	289.2 -> 72.3	5.844	654203
Phenazepam	244.2 -> 86.2	6/13/2017 7:24 PM				244.2 -> 91.1			Phenazepam-D4	353.0 -> 183...	6.547	22867
Phencyclidine	253.1 -> 104...	6/13/2017 7:24 PM	5.870	2760	4.84	253.1 -> 182...			Phenazepam-D4	249.2 -> 86.2	6.074	12877...
Phenylethylamine	325.1 -> 271...	6/13/2017 7:24 PM				325.1 -> 140...			Phenylethylamine-D5	263.2 -> 192...	6.094	17785
Praxepam	219.1 -> 91.2	6/13/2017 7:24 PM	5.731	6265	2.46	219.1 -> 162...	1.70		Praxepam-D5	330.1 -> 276...	6.995	13261...
Propoxyphene	340.2 -> 58.3	6/13/2017 7:24 PM	6.367	49	0.52	340.2 -> 266...	1.28		Praxepam-D5	330.1 -> 276...	6.995	13261...
Protriptyline	264.2 -> 155...	6/13/2017 7:24 PM	6.582	155	0.84	264.2 -> 161...			Propoxyphene-D11	351.3 -> 277...	6.406	400682
Pseudoephedrine	166.1 -> 148...	6/13/2017 7:24 PM				166.1 -> 133...			Nortriptyline-D3	267.2 -> 233...	6.540	592684
Tapentadol	222.2 -> 107...	6/13/2017 7:24 PM				222.2 -> 121...			Pseudoephedrine-D3	169.1 -> 151...	4.822	551455
Timipramine	295.2 -> 100...	6/13/2017 7:24 PM	6.656	364	1.61	295.2 -> 58.3	0.79		Tapentadol-D3	225.2 -> 107...	5.649	999012
Verapamil	455.3 -> 165...	6/13/2017 7:24 PM	6.444	137	1.85	455.3 -> 150...			Timipramine-D3	298.2 -> 103...	6.657	31166...
Zaleplon	306.1 -> 236...	6/13/2017 7:24 PM				306.1 -> 264...			Timipramine-D3	298.2 -> 103...	6.657	31166...
Zopiclone	389.1 -> 244...	6/13/2017 7:24 PM	6.303	190	1.55	389.1 -> 216...			Zaleplon-D4	310.2 -> 240...	6.289	303283
									Zopiclone-D4	393.1 -> 244...	6.404	290647

Compound Method		p2 external control			p2 external control Results			ISTD Method					
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	S/N	Qualifier 1 M...	Qualif...	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	6/13/2017 7:44 PM	5.987	2033	19.12	284.1 -> 93.2	1.41	291.2 -> 138...	5.782	7-aminoflunitrazepam-D7	291.2 -> 138...	5.782	313051
alpha-hydroxymidazolam	342.1 -> 324...	6/13/2017 7:44 PM	6.529	42	0.36	342.1 -> 203...		346.1 -> 328...	6.508	alpha-hydroxymidazolam-...	346.1 -> 328...	6.508	516592
Amtripyline	278.2 -> 91.2	6/13/2017 7:44 PM	6.620	21190...	354.44	278.2 -> 105...	Infinity	281.2 -> 91.2	6.619	Amtripyline-D3	281.2 -> 91.2	6.619	686179
Amoxapine	314.1 -> 271...	6/13/2017 7:44 PM	6.513	1294	4.31	314.1 -> 193...	2529...	281.2 -> 91.2	6.619	Amtripyline-D3	281.2 -> 91.2	6.619	686179
Benzylecgonine	290.1 -> 168...	6/13/2017 7:44 PM	5.393	81	1.57	290.1 -> 105...	Infinity	298.2 -> 171...	5.412	Benzylecgonine-D8	298.2 -> 171...	5.412	6680
Carbamazepine	237.1 -> 193...	6/13/2017 7:44 PM				237.1 -> 194...		243.1 -> 200...	6.197	Carbamazepine-13C6	243.1 -> 200...	6.197	14687...
Chlordiazepoxide	300.1 -> 227...	6/13/2017 7:44 PM	6.433	548	9.76	300.1 -> 282...	0.39	305.1 -> 286...	6.636	Chlordiazepoxide-D5	305.1 -> 286...	6.636	253009
Clomipramine	315.2 -> 86.2	6/13/2017 7:44 PM	6.898	148	0.18	315.2 -> 58.3		318.2 -> 89.2	6.856	Clomipramine-D3	318.2 -> 89.2	6.856	25393...
Cocaine	304.2 -> 182...	6/13/2017 7:44 PM				304.2 -> 105...		307.2 -> 185...	5.841	Cocaine-D3	307.2 -> 185...	5.841	877896
Desipramine	267.2 -> 72.3	6/13/2017 7:44 PM	6.722	278	Infinity	267.2 -> 44.3	Infinity	270.2 -> 75.3	6.499	Desipramine-D3	270.2 -> 75.3	6.499	18442...
Doxepin	280.2 -> 107...	6/13/2017 7:44 PM	6.274	183	0.66	280.2 -> 77.2		283.2 -> 107...	6.334	Doxepin-D3	283.2 -> 107...	6.334	815021
Estazolam	295.1 -> 267...	6/13/2017 7:44 PM	6.678	49	1.64	295.1 -> 205...	1.64	300.1 -> 272...	6.453	Estazolam-D5	300.1 -> 272...	6.453	378199
Flunitrazepam	314.1 -> 268...	6/13/2017 7:44 PM	6.513	1140	5.32	314.1 -> 239...		321.1 -> 245...	6.471	Flunitrazepam-D7	321.1 -> 245...	6.471	13703
Flurazepam	388.2 -> 315...	6/13/2017 7:44 PM				388.2 -> 317...		393.1 -> 244...	6.404	Flurazepam-D7	393.1 -> 244...	6.404	200543
Imipramine	281.2 -> 86.2	6/13/2017 7:44 PM	6.598	5099	1365.39	281.2 -> 58.3	1.82	284.2 -> 61.3	6.577	Imipramine-D3	284.2 -> 61.3	6.577	14788...
Levamisole	205.1 -> 91.2	6/13/2017 7:44 PM	5.610	311	0.50	205.1 -> 178...	2.91	307.2 -> 185...	5.841	Cocaine-D3	307.2 -> 185...	5.841	877896
Maprotiline	278.2 -> 91.2	6/13/2017 7:44 PM	6.397	1197	0.50	278.2 -> 117...	0.43	252.2 -> 224...	5.891	Meperidine-D4	252.2 -> 224...	5.891	400982
MDA	180.1 -> 163...	6/13/2017 7:44 PM	5.044	57	0.38	180.1 -> 105...		185.1 -> 168...	5.205	MDA-D5	185.1 -> 168...	5.205	322604
MDEA	208.1 -> 163...	6/13/2017 7:44 PM				208.1 -> 105...		214.2 -> 166...	5.487	MDEA-D6	214.2 -> 166...	5.487	651281
MDMA	194.1 -> 163...	6/13/2017 7:44 PM	5.305	43	0.69	194.1 -> 105...		200.2 -> 166...	5.345	MDMA-D6	200.2 -> 166...	5.345	54467
Meperidine	248.2 -> 220...	6/13/2017 7:44 PM	5.932	87	0.35	248.2 -> 174...	2.64	252.2 -> 224...	5.891	Meperidine-D4	252.2 -> 224...	5.891	400982
Methyphenidate	234.2 -> 84.2	6/13/2017 7:44 PM	5.587	50	0.61	234.2 -> 56.3	0.33	252.2 -> 224...	5.891	Meperidine-D4	252.2 -> 224...	5.891	400982
Metoprolol	268.2 -> 116...	6/13/2017 7:44 PM				268.2 -> 56.3		252.2 -> 224...	5.891	Meperidine-D4	252.2 -> 224...	5.891	400982
Midazolam	326.1 -> 223...	6/13/2017 7:44 PM	6.713	18	0.34	326.1 -> 249...		330.1 -> 295...	6.672	Midazolam-D4	330.1 -> 295...	6.672	569553
Mirtazapine	266.2 -> 195...	6/13/2017 7:44 PM	6.379	23207...	2478.15	266.2 -> 72.3	Infinity	330.1 -> 295...	6.672	Midazolam-D4	330.1 -> 295...	6.672	569553
Mirtazapine	399.2 -> 174...	6/13/2017 7:44 PM				399.2 -> 238...		243.1 -> 200...	6.197	Carbamazepine-13C6	243.1 -> 200...	6.197	14687...
Normeperidine	234.1 -> 42.3	6/13/2017 7:44 PM	5.832	74	0.43	234.1 -> 160...		238.2 -> 164...	5.790	Normeperidine-D4	238.2 -> 164...	5.790	352913
Norpropoxyphene	326.2 -> 44.3	6/13/2017 7:44 PM	6.266	24	0.36	326.2 -> 252...		331.2 -> 44.3	6.367	Norpropoxyphene-D5	331.2 -> 44.3	6.367	152695
Nortriptyline	264.2 -> 91.2	6/13/2017 7:44 PM	6.582	9125	Infinity	264.2 -> 233...	581.72	267.2 -> 233...	6.540	Nortriptyline-D3	267.2 -> 233...	6.540	603834
Ondansetron	294.2 -> 184...	6/13/2017 7:44 PM	6.312	49	1.06	294.2 -> 212...	1.53	289.2 -> 72.3	5.865	Pentazocine-13C3	289.2 -> 72.3	5.865	637390
Pentazocine	286.2 -> 218...	6/13/2017 7:44 PM				286.2 -> 41.3		289.2 -> 72.3	5.865	Pentazocine-13C3	289.2 -> 72.3	5.865	637390
Phenazepam	349.0 -> 206...	6/13/2017 7:44 PM	6.508	2497	19.05	349.0 -> 183...	0.43	353.0 -> 183...	6.547	Phenazepam-D4	353.0 -> 183...	6.547	23226
Phencyclidine	244.2 -> 86.2	6/13/2017 7:44 PM	6.075	1634	2.53	244.2 -> 91.1	Infinity	249.2 -> 86.2	6.074	Phencyclidine-D5	249.2 -> 86.2	6.074	13189...
Phenylethylamine	253.1 -> 104...	6/13/2017 7:44 PM	5.870	3269	4.89	253.1 -> 182...		263.2 -> 192...	6.094	Phenylethylamine-D10	263.2 -> 192...	6.094	17578
Praxepam	325.1 -> 271...	6/13/2017 7:44 PM	6.937	12	0.47	325.1 -> 140...	0.68	330.1 -> 276...	6.995	Praxepam-D5	330.1 -> 276...	6.995	12414...
Primidone	219.1 -> 91.2	6/13/2017 7:44 PM	5.731	6272	2.47	219.1 -> 162...	1.12	330.1 -> 276...	6.995	Praxepam-D5	330.1 -> 276...	6.995	12414...
Propoxyphene	340.2 -> 58.3	6/13/2017 7:44 PM	6.143	43	0.57	340.2 -> 266...	25.83	351.3 -> 277...	6.406	Propoxyphene-D11	351.3 -> 277...	6.406	396606
Protriptyline	264.2 -> 155...	6/13/2017 7:44 PM	6.542	97	1.82	264.2 -> 161...	0.96	267.2 -> 233...	6.540	Nortriptyline-D3	267.2 -> 233...	6.540	603834
Pseudoephedrine	166.1 -> 148...	6/13/2017 7:44 PM	4.864	708	0.38	166.1 -> 133...	0.57	169.1 -> 151...	4.843	Pseudoephedrine-D3	169.1 -> 151...	4.843	594857
Tapentadol	222.2 -> 107...	6/13/2017 7:44 PM	5.628	235	0.60	222.2 -> 121...		225.2 -> 107...	5.669	Tapentadol-D3	225.2 -> 107...	5.669	902638
Trimipramine	295.2 -> 100...	6/13/2017 7:44 PM	6.597	337	3.88	295.2 -> 58.3	1.23	298.2 -> 103...	6.657	Trimipramine-D3	298.2 -> 103...	6.657	31038...
Verapamil	455.3 -> 165...	6/13/2017 7:44 PM				455.3 -> 150...		298.2 -> 103...	6.657	Trimipramine-D3	298.2 -> 103...	6.657	31038...
Zaleplon	306.1 -> 236...	6/13/2017 7:44 PM	6.187	88	0.63	306.1 -> 264...		310.2 -> 240...	6.289	Zaleplon-D4	310.2 -> 240...	6.289	286442
Zopiclone	389.1 -> 244...	6/13/2017 7:44 PM	6.749	217	0.45	389.1 -> 216...	1.02	393.1 -> 244...	6.404	Zopiclone-D4	393.1 -> 244...	6.404	200543

**THC and Metabolites Screen in Blood by LC-MS/MS**Extraction Date: 6-13-17Analyst: Anne Nord**PRE-ANALYTIC**

Plate Lot# \_\_\_\_\_ Stock THC plate: 0483844 Plate Exp: 6/15/2017

- ✓ 1. Ensure all solutions are within expiration date.
- Mobile Phase A: **10mM Amm Formate**
  - Mobile Phase B: **0.1% FA in MeOH**
  - Blank/Negative Blood: **Lot 321632-1**
  - Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
  - **0.1% Formic Acid in water**
  - **MTBE**
  - **Hexane**
- ✓ 2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.
- ✓ 3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.
- ✓ 4. Create worklist. Data path name: 6-13-17 blood screen AM 25-26

**ANALYTIC**

- ✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- ✓ 2. Add **1000 µL blood (calibrated pipette)** to wells of analytical (standards) plate.
- Blank blood for locations containing standards/QCs and internal standards
  - Sample blood for locations containing only internal standards
- ✓ 3. Place on shaking incubator at ambient temp., **900rpm for 15 minutes**. *Shaker ID 66759*
- ✓ 4. Pipette **500µL 0.1% formic acid** to all wells of standards plate.
- ✓ 5. Place on shaking incubator at ambient temp., **900rpm for 15 minutes**.
- ✓ 6. Transfer **800µL of blood+acid** 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**) Pressure Manifold ID 66729  
Wait 5 min.
- ✓ 8. Add **2.25mL MTBE** and allow to flow under gravity for 5 minutes. (**add in 3 increments of 750uL**)
- ✓ 9. Apply positive pressure for approx. 15 seconds. (**10-15 PSI- Selector to the left**)
- ✓ 10. Add **2.25mL Hexane** and allow to flow under gravity for 5 minutes. (**add in 3 increments of 750uL**)
- ✓ 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 ID 66819*
- ✓ 13. Reconstitute in **100 µL 100% 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: 6/13/17 cann screen
- ✓ 2. Make any necessary integration changes.
- ✓ 3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC and +/- 2% or +/- 0.100 min (whichever is greater) retention time of calibrators?
- ✓ 4. Did QCs pass for each analyte? (Y)/N \_\_\_\_\_
- ✓ 5. Central File Packet to include: ✓ LIMS Worklist: ✓ Method Checklist  
✓ Calibration and Control Reports

Comments:

# ISP FORENSICS - Cd'A

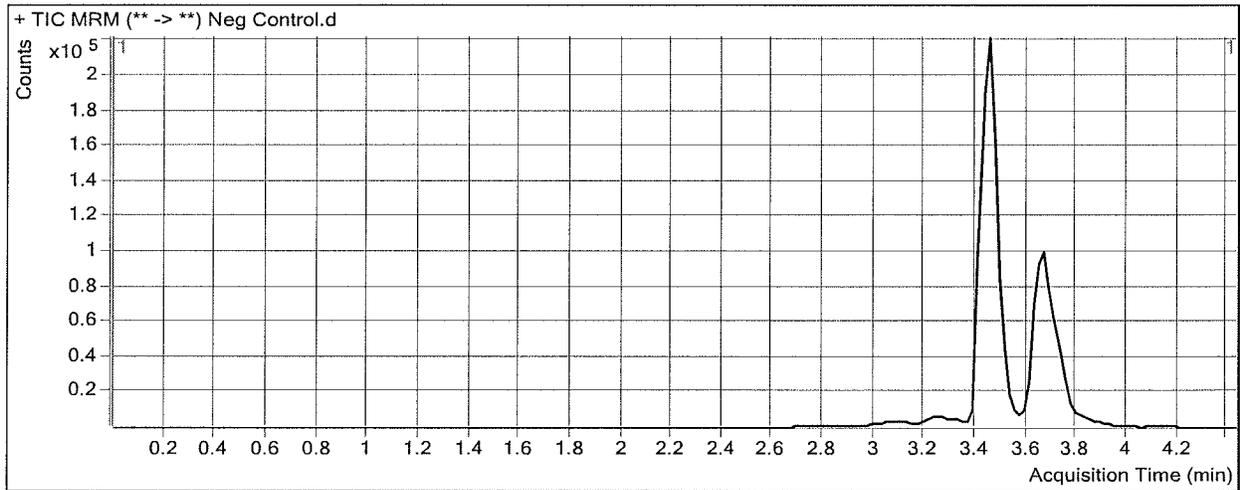
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 13:52 **Data File** Neg Control.d  
**Sample Type** Sample **Sample Name** Neg Control  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-a2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen negative blood lot 32632-1

### Sample Chromatogram



# ISP FORENSICS - Cd'A

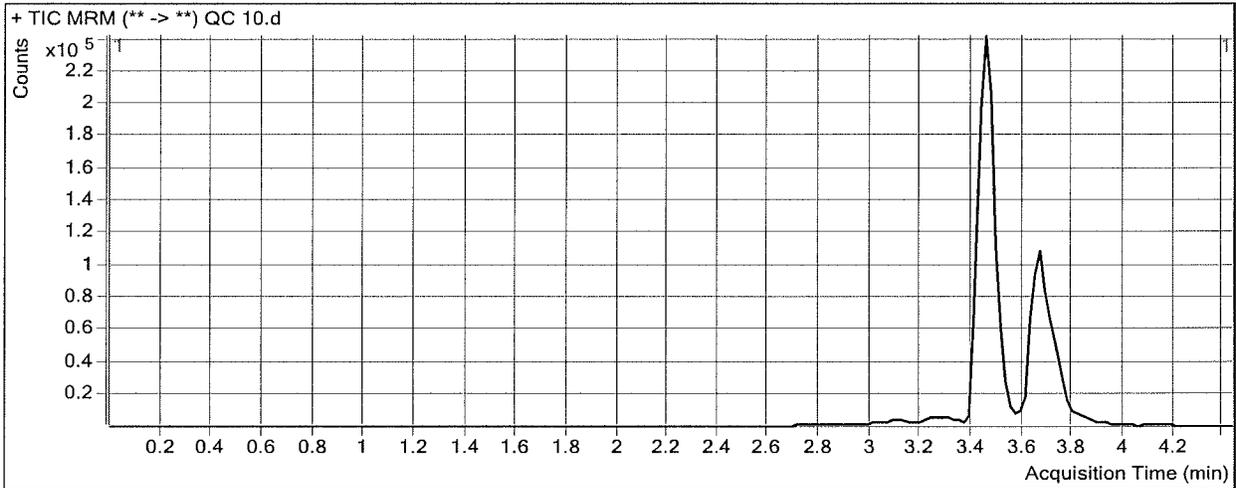
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 14:12 **Data File** QC 10.d  
**Sample Type** QC **Sample Name** QC 10  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-A3 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

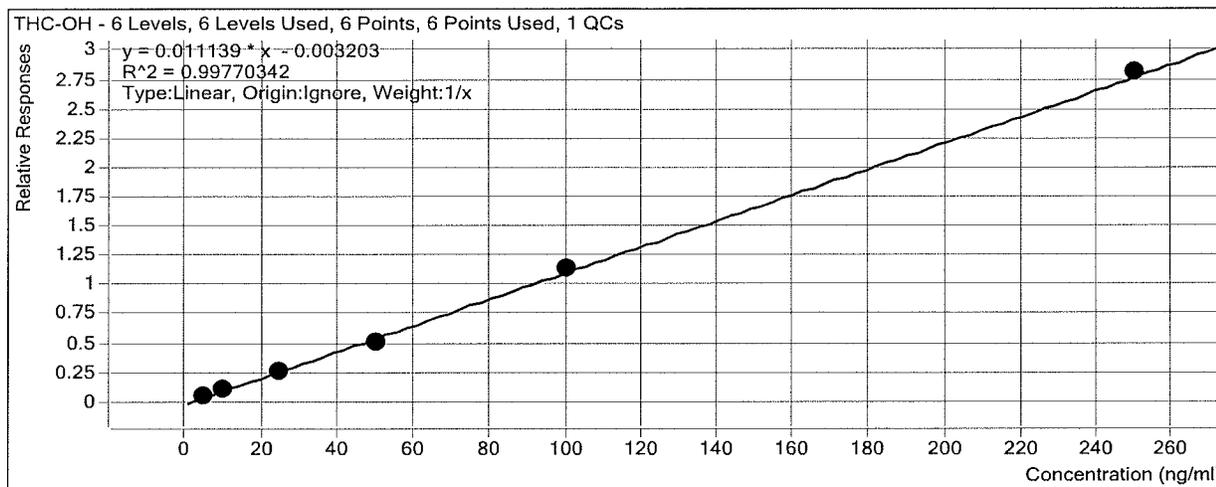
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.453	80762	759733	0.1063	9.8306
THC-COOH	3.466	55683	166506	0.3344	10.8274
THC	3.740	4562	44319	0.1029	9.8299

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin

**Last Calib Update** 6/14/2017 9:47 AM **Analyst Name** ISP TOX

**Target Compound** *THC-OH*  
**Internal Standard** *THC-OH-d3*



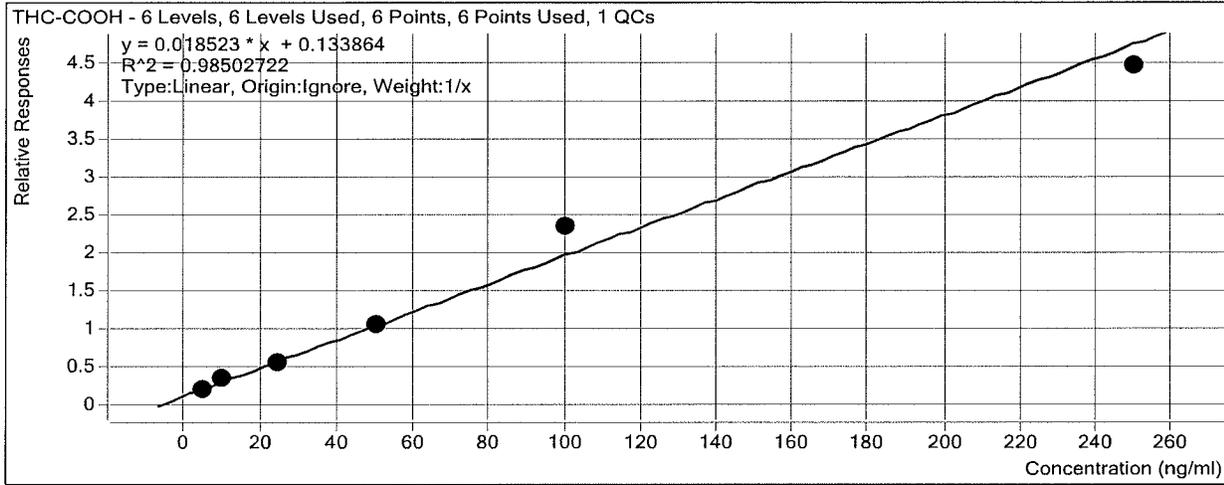
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.7	113.8
cal 3	3	<input checked="" type="checkbox"/>	10	9.9	98.6
QC 10	3	<input checked="" type="checkbox"/>	10	9.8	98.3
cal 4	4	<input checked="" type="checkbox"/>	25	23.0	92.1
cal 5	5	<input checked="" type="checkbox"/>	50	45.5	91.1
cal 6	6	<input checked="" type="checkbox"/>	100	103.4	103.4
cal 7	7	<input checked="" type="checkbox"/>	250	252.5	101.0

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin

**Last Calib Update** 6/14/2017 9:47 AM **Analyst Name** ISP TOX

**Target Compound** *THC-COOH*  
**Internal Standard** *THC-COOH-d9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	4.2	83.4
cal 3	3	<input checked="" type="checkbox"/>	10	11.3	113.4
QC 10	3	<input checked="" type="checkbox"/>	10	10.8	108.3
cal 4	4	<input checked="" type="checkbox"/>	25	23.2	92.6
cal 5	5	<input checked="" type="checkbox"/>	50	49.1	98.2
cal 6	6	<input checked="" type="checkbox"/>	100	119.0	119.0
cal 7	7	<input checked="" type="checkbox"/>	250	233.2	93.3

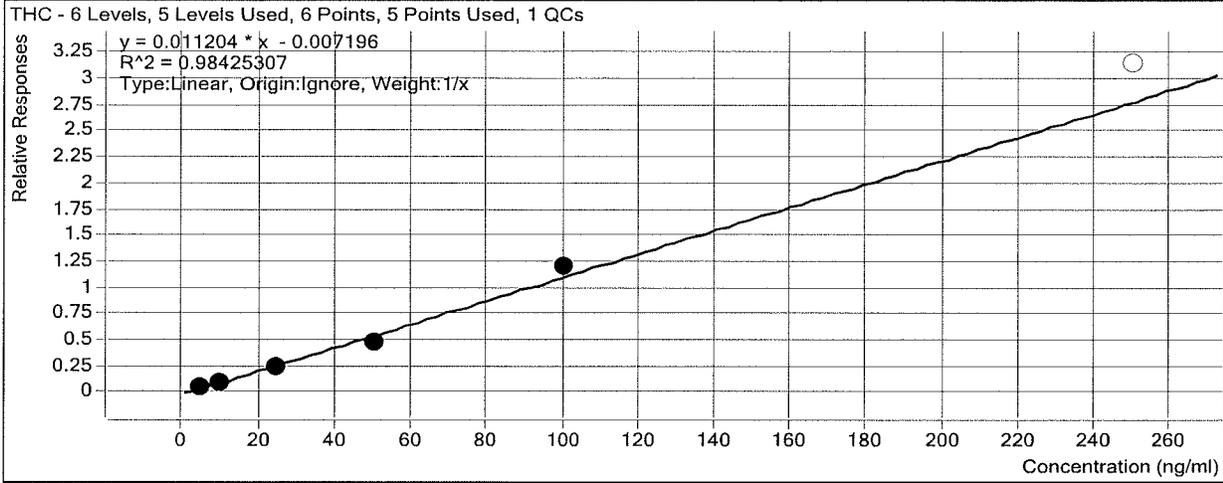
# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin

**Last Calib Update** 6/14/2017 9:47 AM

**Analyst Name** ISP TOX

**Target Compound** *THC*  
**Internal Standard** *THC-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.9	118.7
cal 3	3	<input checked="" type="checkbox"/>	10	9.6	95.9
QC 10	3	<input checked="" type="checkbox"/>	10	9.8	98.3
cal 4	4	<input checked="" type="checkbox"/>	25	22.4	89.7
cal 5	5	<input checked="" type="checkbox"/>	50	43.7	87.3
cal 6	6	<input checked="" type="checkbox"/>	100	108.4	108.4
cal 7	7	<input type="checkbox"/>	250	281.1	112.4

# ISP FORENSICS - Cd'A

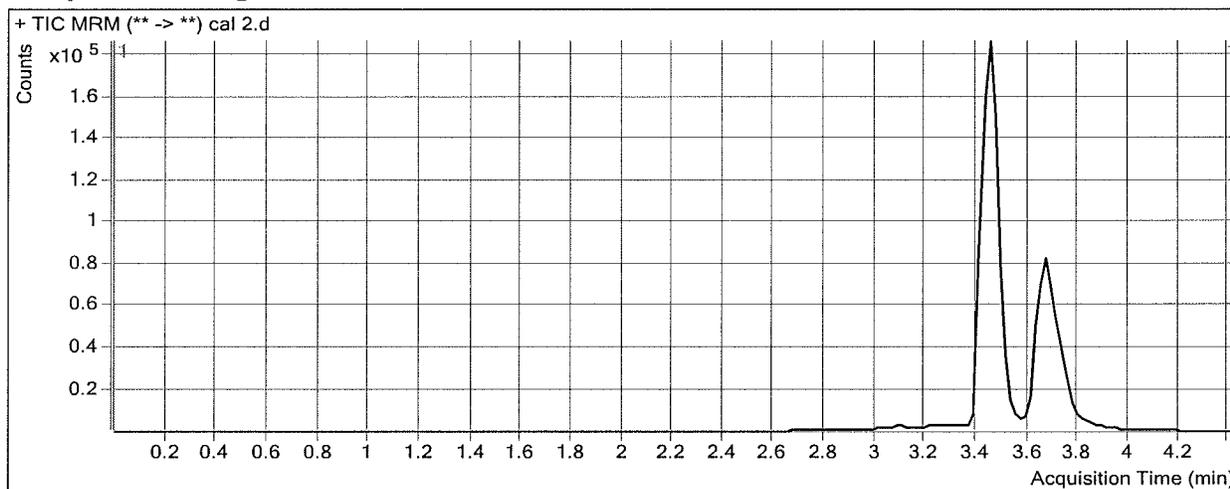
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 13:19 **Data File** cal 2.d  
**Sample Type** Calibration **Sample Name** cal 2  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-B1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.433	36157	600560	0.0602	5.6924
THC-COOH	3.446	33441	158376	0.2111	4.1722
THC	3.740	2028	34206	0.0593	5.9334

# ISP FORENSICS - Cd'A

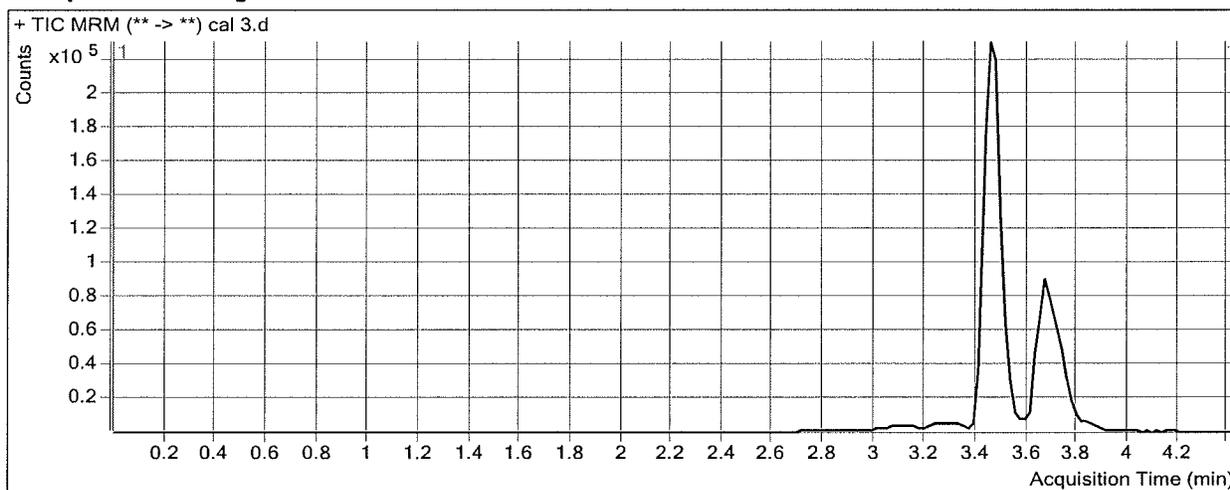
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 13:26 **Data File** cal 3.d  
**Sample Type** Calibration **Sample Name** cal 3  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-C1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.453	78966	740675	0.1066	9.8584
THC-COOH	3.466	51394	149438	0.3439	11.3401
THC	3.740	4283	42721	0.1002	9.5900

# ISP FORENSICS - Cd'A

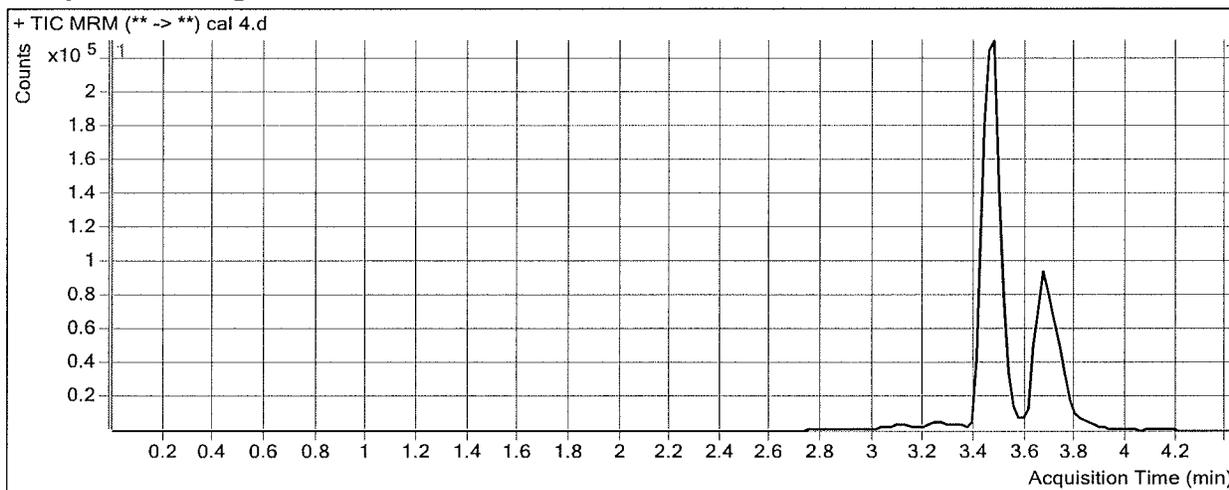
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 13:32 **Data File** cal 4.d  
**Sample Type** Calibration **Sample Name** cal 4  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-D1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.453	166118	655972	0.2532	23.0213
THC-COOH	3.466	85142	151280	0.5628	23.1571
THC	3.740	10332	42330	0.2441	22.4286

# ISP FORENSICS - Cd'A

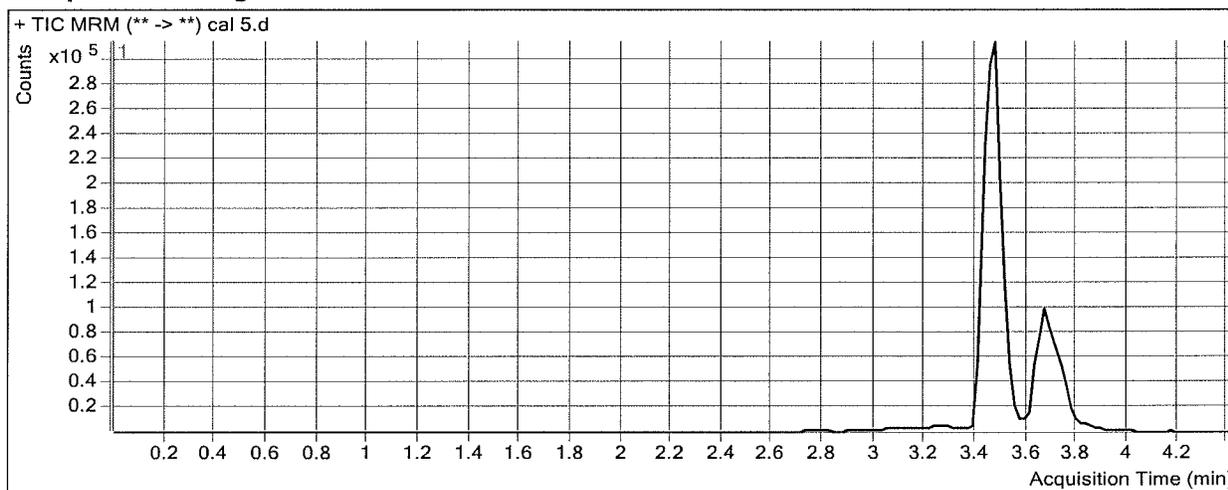
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 13:39 **Data File** cal 5.d  
**Sample Type** Calibration **Sample Name** cal 5  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-E1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.453	359785	713637	0.5042	45.5465
THC-COOH	3.466	168949	161912	1.0435	49.1059
THC	3.740	22454	46577	0.4821	43.6701

# ISP FORENSICS - Cd'A

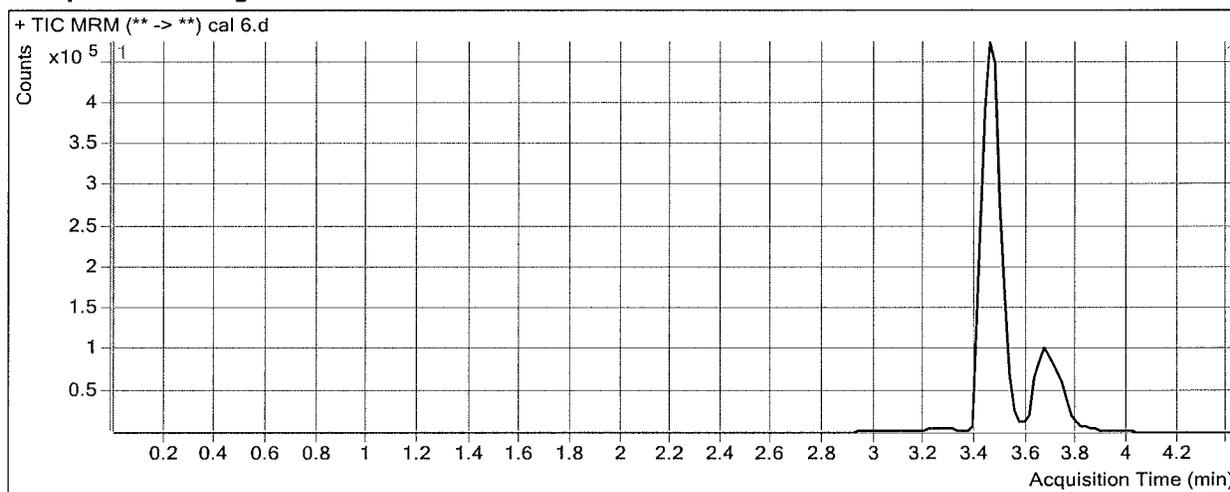
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 13:46 **Data File** cal 6.d  
**Sample Type** Calibration **Sample Name** cal 6  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-F1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.433	830827	723355	1.1486	103.3969
THC-COOH	3.466	388518	166113	2.3389	119.0406
THC	3.740	58650	48589	1.2071	108.3779

# ISP FORENSICS - Cd'A

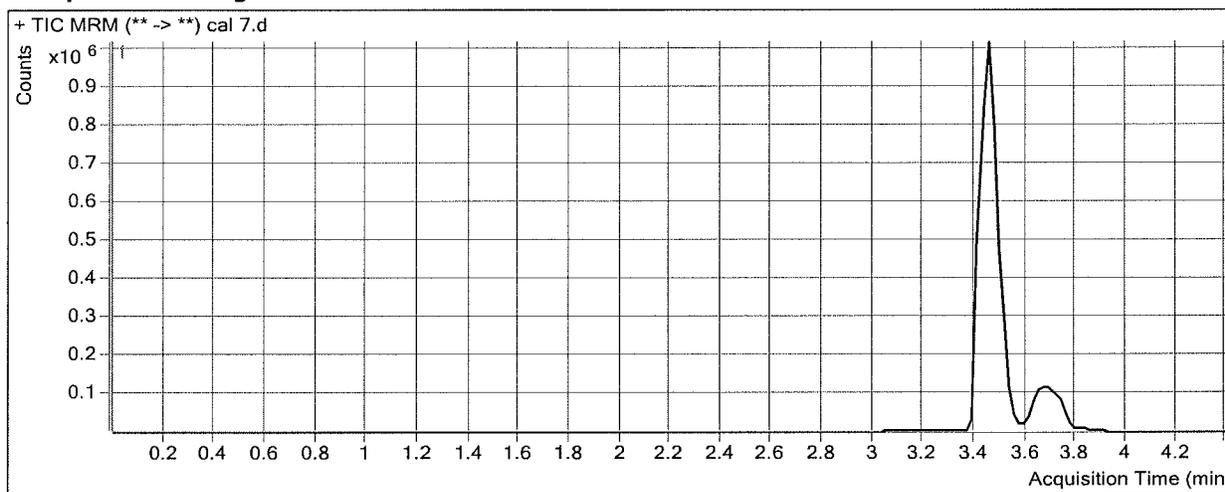
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\6-13-17 blood screen AM 25-26\QuantResults\61317 cann screen.batch.bin  
**Analysis Time** 6/14/2017 9:47 AM **Analyst Name** ISP Tox  
**Report Time** 6/14/2017 9:50 AM **Reporter Name** ISP Tox  
**Last Calib Update** 6/14/2017 9:47 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-06-13 13:59 **Data File** cal 7.d  
**Sample Type** Calibration **Sample Name** cal 7  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-G1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.433	2303580	819979	2.8093	252.4845
THC-COOH	3.466	720935	161892	4.4532	233.1840
THC	3.720	152679	48587	3.1424	281.1125