

Worklist: 1616

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-0276	1	76839	AM 25/AM 26 Blood MultiDrug/	
C2017-0435	1	79439	AM 25/AM 26 Blood MultiDrug/	
C2017-0446	1	78900	AM 25/AM 26 Blood MultiDrug/	
C2017-0454	1	78935	AM 25/AM 26 Blood MultiDrug/	
C2017-0458	1	79042	AM 25/AM 26 Blood MultiDrug/	
C2017-0465	1	79195	AM 25/AM 26 Blood MultiDrug/	
C2017-0471	1	79233	AM 25/AM 26 Blood MultiDrug/	
C2017-0496	1	79455	AM 25/AM 26 Blood MultiDrug/	
C2017-0500	1	79464	AM 25/AM 26 Blood MultiDrug/	
C2017-0502	1	79496	AM 25/AM 26 Blood MultiDrug/	
C2017-0512	1	79563	AM 25/AM 26 Blood MultiDrug/	
C2017-0514	1	79568	AM 25/AM 26 Blood MultiDrug/	
C2017-0515	1	79570	AM 25/AM 26 Blood MultiDrug/	
C2017-0535	1	79830	AM 25/AM 26 Blood MultiDrug/	
M2017-0858	1	79549	AM 25/AM 26 Blood MultiDrug/	
M2017-0869	1	79550	AM 25/AM 26 Blood MultiDrug/	
M2017-0975	1	79858	AM 25/AM 26 Blood MultiDrug/	
M2017-1017	1	79553	AM 25/AM 26 Blood MultiDrug/	
M2017-1143	2	79458	AM 25/AM 26 Blood MultiDrug/	
P2017-0559	1	79859	AM 25/AM 26 Blood MultiDrug/	
P2017-0605	1	79861	AM 25/AM 26 Blood MultiDrug/	
P2017-0637	1	79860	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 3-22-17

Analyst: Anne Nord

PRE-ANALYTIC

Plate Lot# 0495940

Plate. Exp. 12-12-17

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

0.5M Ammonium Hydroxide Lot #: 1117/6
 Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**

Lot #: 321632

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: 3-22-17 ann 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** in wells of analytical (standards) plate. Mix via aspirate and dispense.
 - 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 (standards) 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.

32217 MD Screen A

POST-ANALYTIC

1. Open quantitation software and create a new quantitation batch. Batch name: 32217 MD Screen B
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% rt of administrative control. > 1/10 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 AM 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	Transition	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	3/22/2017 5:00 PM	5.686	1129	15.82	328.2 -> 211...	9.08	334.2 -> 165...	5.625	6-MAM-D6	334.2 -> 165...	5.625	37689
7-Aminoclonazepam	286.1 -> 121...	3/22/2017 5:00 PM	5.714	22215	270.74	286.1 -> 222...	980.58	290.1 -> 121...	5.692	7-Aminoclonazepam-D4	290.1 -> 121...	5.692	96372
Acetyl Fentanyl	333.2 -> 105...	3/22/2017 5:00 PM	6.461	2373	Infinity	323.2 -> 188...	1110...	328.2 -> 105...	6.459	Acetyl Fentanyl-D5	328.2 -> 105...	6.459	271599
Acetyl Norfentanyl	219.1 -> 84.2	3/22/2017 5:00 PM	5.212	6288	40.64	219.1 -> 56.3	196.92	224.2 -> 84.2	5.212	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.212	299859
a-Hydroxyvalprazolam	325.1 -> 297...	3/22/2017 5:00 PM	6.501	6389	16.78	325.1 -> 215...	19.44	330.1 -> 302...	6.540	a-Hydroxyvalprazolam-D5	330.1 -> 302...	6.540	28486
alpha-PVP	232.2 -> 91.0	3/22/2017 5:00 PM	6.129	94154	258.70	232.2 -> 77.1	22.42	240.2 -> 91.1	6.066	alpha-PVP-D8	240.2 -> 91.1	6.066	437022
Alprazolam	309.1 -> 281...	3/22/2017 5:00 PM	6.627	33010	2613.48	309.1 -> 205...	117.70	314.1 -> 286...	6.625	Alprazolam-D5	314.1 -> 286...	6.625	134671
Amphetamine	136.1 -> 91.1	3/22/2017 5:00 PM	5.174	131651	18.83	136.1 -> 119...	16.43	147.2 -> 130...	5.134	Amphetamine-D11	147.2 -> 130...	5.134	98004
Bupropion	240.1 -> 184...	3/22/2017 5:00 PM	6.331	106055	188.20	240.1 -> 131...	60.45	249.2 -> 185...	6.290	Bupropion-D9	249.2 -> 185...	6.290	509252
Carisoprodol	261.2 -> 176...	3/22/2017 5:00 PM	6.269	39634	82.03	261.2 -> 55.3	17.50	268.2 -> 183...	6.247	Carisoprodol-D7	268.2 -> 183...	6.247	235551
Chlorthalidone	325.2 -> 109...	3/22/2017 5:00 PM	6.419	139982	69.61	325.2 -> 262...	79.31	331.2 -> 109...	6.397	Chlorthalidone-D6	331.2 -> 109...	6.397	632892
Clonazepam	316.1 -> 269...	3/22/2017 5:00 PM	6.483	11356	74.31	316.1 -> 213...	19.21	320.1 -> 217...	6.482	Clonazepam-D4	320.1 -> 217...	6.482	15902
Codeine	300.2 -> 215...	3/22/2017 5:00 PM	5.671	7145	112.22	300.2 -> 165...	72.88	306.2 -> 218...	5.609	Codeine-D6	306.2 -> 218...	5.609	27298
Cyclobenzaprine	276.2 -> 214...	3/22/2017 5:00 PM	6.795	83670	10824.60	276.2 -> 231...	223.20	279.2 -> 215...	6.774	Cyclobenzaprine-D3	279.2 -> 215...	6.774	398779
Dextromethorphan	272.2 -> 171...	3/22/2017 5:00 PM	6.533	35638	42.59	272.2 -> 147...	Infinity	275.2 -> 171...	6.532	Dextromethorphan-D3	275.2 -> 171...	6.532	189542
Dextrophan	258.2 -> 157...	3/22/2017 5:00 PM	5.821	29380	327.45	258.2 -> 133...	129.80	261.2 -> 157...	5.820	Dextrophan-D3	261.2 -> 157...	5.820	163146
Diazepam	285.1 -> 193...	3/22/2017 5:00 PM	6.853	28727	32.87	285.1 -> 153...	48.99	290.1 -> 198...	6.852	Diazepam-D5	290.1 -> 198...	6.852	132240
Dihydrocodeine	302.2 -> 198...	3/22/2017 5:00 PM	5.385	13510	Infinity	302.2 -> 128...	Infinity	308.2 -> 202...	5.343	Dihydrocodeine-D6	308.2 -> 202...	5.343	83472
Diphenhydramine	256.2 -> 167...	3/22/2017 5:00 PM	6.412	189629	35.06	256.2 -> 152...	27.93	259.2 -> 167...	6.412	Diphenhydramine-D3	259.2 -> 167...	6.412	1043873
Doxylamine	271.2 -> 182...	3/22/2017 5:00 PM	6.043	154807	31.92	271.2 -> 167...	46.69	276.2 -> 187...	6.041	Doxylamine-D5	276.2 -> 187...	6.041	867950
EDDP	279.2 -> 235...	3/22/2017 5:00 PM	6.387	116696	582.76	279.2 -> 250...	2822...	282.2 -> 235...	6.367	EDDP-D3	282.2 -> 235...	6.367	53286
Fentanyl	337.2 -> 105...	3/22/2017 5:00 PM	6.680	14252	Infinity	337.2 -> 188...	Infinity	342.3 -> 105...	6.660	Fentanyl-D5	342.3 -> 105...	6.660	456916
Fluoxetine	310.1 -> 44.3	3/22/2017 5:00 PM	6.586	206561	122.55	310.1 -> 148...	734.56	316.2 -> 44.3	6.584	Fluoxetine-D6	316.2 -> 44.3	6.584	1014190
Hydrocodone	300.2 -> 198...	3/22/2017 5:00 PM	5.876	20304	Infinity	300.2 -> 128...	Infinity	306.2 -> 202...	5.834	Hydrocodone-D6	306.2 -> 202...	5.834	119129
Hydromorphone	286.2 -> 184...	3/22/2017 5:00 PM	5.286	13929	Infinity	286.2 -> 157...	7.64	292.2 -> 185...	5.224	Hydromorphone-D6	292.2 -> 185...	5.224	51370
Ketamine	238.1 -> 125...	3/22/2017 5:00 PM	6.250	7840	Infinity	238.1 -> 220...	Infinity	242.1 -> 129...	6.249	Ketamine-D4	242.1 -> 129...	6.249	64093
Meprobamate	219.1 -> 158...	3/22/2017 5:00 PM	5.804	10932	9.47	219.1 -> 97.1	7.45	226.2 -> 165...	5.783	Meprobamate-D7	226.2 -> 165...	5.783	50395
Methadone	310.2 -> 265...	3/22/2017 5:00 PM	6.706	160226	297.73	310.2 -> 105...	43.22	319.3 -> 268...	6.705	Methadone-D9	319.3 -> 268...	6.705	841101
Methamphetamine	150.1 -> 91.1	3/22/2017 5:00 PM	5.397	174292	Infinity	150.1 -> 119...	18.21	161.2 -> 97.1	5.335	Methamphetamine-D11	161.2 -> 97.1	5.335	301744
Morphine	286.2 -> 201...	3/22/2017 5:00 PM	5.042	4847	18.52	286.2 -> 165...	21.37	292.2 -> 152...	5.000	Morphine-D6	292.2 -> 152...	5.000	3160
Naloxone	338.2 -> 309...	3/22/2017 5:00 PM	6.113	24581	39.06	338.2 -> 211...	36.35	333.2 -> 315...	6.031	Naloxone-D5	333.2 -> 315...	6.031	198806
Naltrexol	344.2 -> 326...	3/22/2017 5:00 PM	5.440	56366	142.55	344.2 -> 308...	1482...	347.2 -> 329...	5.399	Naltrexol-D3	347.2 -> 329...	5.399	244031
Naltrexone	342.2 -> 324...	3/22/2017 5:00 PM	5.563	393	3.04	342.2 -> 55.3	Not evaluated	345.2 -> 327...	5.440	Naltrexone-D3	345.2 -> 327...	5.440	14048
Nortubuprenorphine	414.3 -> 101...	3/22/2017 5:00 PM	6.212	6077	806.09	414.3 -> 57.3	81.06	417.3 -> 101...	6.171	Nortubuprenorphine-D3	417.3 -> 101...	6.171	29672
Nordiazepam	271.1 -> 140...	3/22/2017 5:00 PM	6.715	11637	26.39	271.1 -> 208...	Infinity	276.1 -> 140...	6.714	Nordiazepam-D5	276.1 -> 140...	6.714	36720
Norfentanyl	233.2 -> 84.2	3/22/2017 5:00 PM	5.660	93998	574.98	233.2 -> 55.3	43.02	238.2 -> 84.2	5.639	Norfentanyl-D5	238.2 -> 84.2	5.639	412360
Norhydrocodone	286.2 -> 199...	3/22/2017 5:00 PM	5.346	2994	11.78	286.2 -> 171...	6.33	289.2 -> 202...	5.346	Norhydrocodone-D3	289.2 -> 202...	5.346	42662
Noroxycodone	302.1 -> 284...	3/22/2017 5:00 PM	5.242	13800	16.33	302.1 -> 186...	11.65	305.2 -> 287...	5.241	Noroxycodone-D3	305.2 -> 287...	5.241	65133
O-desmethyl-tramadol	280.2 -> 58.3	3/22/2017 5:00 PM	5.249	127560	155.45	280.2 -> 42.3	15.29	256.2 -> 64.3	5.249	O-desmethyl-tramadol...	256.2 -> 64.3	5.249	565408
Oxycodone	287.1 -> 240...	3/22/2017 5:00 PM	6.549	7825	39.17	287.1 -> 268...	0.91	292.1 -> 246...	6.528	Oxycodone-D5	292.1 -> 246...	6.528	38751
Oxycodone	316.2 -> 298...	3/22/2017 5:00 PM	5.546	36427	82.29	316.2 -> 241...	2800...	322.2 -> 304...	5.504	Oxycodone-D6	322.2 -> 304...	5.504	181405
Oxymorphone	302.1 -> 284...	3/22/2017 5:00 PM	4.917	41483	3.80	302.1 -> 227...	25.90	305.2 -> 287...	4.855	Oxymorphone-D3	305.2 -> 287...	4.855	202473
Phentermine	150.1 -> 65.2	3/22/2017 5:00 PM	5.437	28856	Infinity	150.1 -> 133...	Infinity	155.2 -> 96.2	5.437	Phentermine-D5	155.2 -> 96.2	5.437	272332
Promethazine	285.1 -> 86.2	3/22/2017 5:00 PM	6.935	271235	1029.09	285.1 -> 71.3	301.41	288.2 -> 89.2	6.913	Promethazine-D3	288.2 -> 89.2	6.913	1542442
Quetiapine	384.2 -> 253...	3/22/2017 5:00 PM	6.861	203256	2142.58	384.2 -> 221...	533.24	392.2 -> 226...	6.839	Quetiapine-D8	392.2 -> 226...	6.839	277058
Sertraline	306.1 -> 158...	3/22/2017 5:00 PM	6.972	47013	255.94	306.1 -> 275...	Infinity	309.1 -> 275...	6.971	Sertraline-D3	309.1 -> 275...	6.971	234705
Sufentanil	387.2 -> 238...	3/22/2017 5:00 PM	7.043	10800	Infinity	387.2 -> 111...	420.56	392.2 -> 238...	7.042	Sufentanil-D5	392.2 -> 238...	7.042	409106

ok based on peak shape

ok based on peak shape

Not evaluated

ok based on peak shape

Compound Method		p1 cal 1a		p1 cal 1a Results			ISTD Method		ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	Qualifi...	Name	Transition	RT	Resp.
Temazepam	301.1 -> 255..	3/22/2017 5:00 PM	6.689	49905	84.97	301.1 -> 283...	12.63	Temazepam-D5	306.1 -> 260..	6.668	248911
Tramadol	264.2 -> 58.3	3/22/2017 5:00 PM	5.800	166106	50.99	264.2 -> 43.3	6.90	Tramadol-13C-D3	268.2 -> 58.3	5.799	793776
Trazodone	372.2 -> 176..	3/22/2017 5:00 PM	7.045	200633	145.71	372.2 -> 148...	194.58	Trazodone-D6	378.2 -> 182..	7.024	891416
Venlafaxine	278.2 -> 58.3	3/22/2017 5:00 PM	6.123	176925	88.68	278.2 -> 260...	85.36	Venlafaxine-D6	284.2 -> 64.3	6.122	771680
Zolpidem	308.2 -> 235..	3/22/2017 5:00 PM	6.567	148283	112.70	308.2 -> 263...	270.10	Zolpidem-D6	314.2 -> 235...	6.564	798473

Compound Method				p1 external control				p1 external control Result...				ISTD Method			
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	Qualifier S/N	Name	Transition	RT	Resp.				
6-MAM	328.2 -> 165...	3/22/2017 5:39 PM	5.707	472	2.11	328.2 -> 211...	3.57	6-MAM-D6	334.2 -> 165...	5.645	36840				
7-Aminoclonazepam	286.1 -> 121...	3/22/2017 5:39 PM	5.693	97	0.86	286.1 -> 222...		7-Aminoclonazepam-D4	290.1 -> 121...	5.713	105360				
Acetyl Fentanyl	323.2 -> 105...	3/22/2017 5:39 PM	6.441	123	Infinity	323.2 -> 188...		Acetyl Fentanyl-D5	328.2 -> 105...	6.459	194969				
Acetyl Norfentanyl	219.1 -> 84.2	3/22/2017 5:39 PM	5.273	168	2.06	219.1 -> 56.3	1.86	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.212	315685				
a-hydroxylaprazolam	325.1 -> 297...	3/22/2017 5:39 PM	6.824	40	0.87	325.1 -> 215...	10.02	a-hydroxylaprazolam-D5	330.1 -> 302...	6.540	36389				
alpha-PVP	232.2 -> 91.0	3/22/2017 5:39 PM	6.210	382	0.42	232.2 -> 77.1	1.90	alpha-PVP-d8	240.2 -> 91.1	6.066	440439				
Alprazolam	309.1 -> 281...	3/22/2017 5:39 PM	6.485	1493	35.91	309.1 -> 205...	0.71	Alprazolam-D5	314.1 -> 286...	6.625	158378				
Amphetamine	136.1 -> 91.1	3/22/2017 5:39 PM	5.174	29673	17.35	136.1 -> 119...	1.17	Amphetamine-D11	147.2 -> 130...	5.154	94467				
Bupropion	240.1 -> 184...	3/22/2017 5:39 PM	6.413	110	0.46	240.1 -> 131...	1.40	Bupropion-D9	249.2 -> 185...	6.290	481859				
Carisoprodol	261.2 -> 176...	3/22/2017 5:39 PM	6.432	15	0.44	261.2 -> 55.3		Carisoprodol-D7	268.2 -> 183...	6.269	260298				
Citalopram	325.2 -> 109...	3/22/2017 5:39 PM	6.621	592	0.72	325.2 -> 262...	0.34	Citalopram-D6	331.2 -> 109...	6.418	652893				
Clonazepam	316.1 -> 269...	3/22/2017 5:39 PM	6.665	136	0.38	316.1 -> 213...	0.66	Clonazepam-D4	320.1 -> 217...	6.482	18159				
Codeine	300.2 -> 215...	3/22/2017 5:39 PM	5.671	54744	586.42	300.2 -> 165...	259.31	Codeine-D6	306.2 -> 218...	5.629	28015				
Cyclobenzaprine	276.2 -> 214...	3/22/2017 5:39 PM	6.775	285	6.84	276.2 -> 231...	0.53	Cyclobenzaprine-D3	279.2 -> 215...	6.794	400616				
Dextromethorphan	272.2 -> 171...	3/22/2017 5:39 PM	6.513	108	0.59	272.2 -> 147...	0.61	Dextromethorphan-D3	275.2 -> 171...	6.532	202323				
Dextrophan	258.2 -> 157...	3/22/2017 5:39 PM	6.065	359	98.31	258.2 -> 133...	0.20	Dextrophan-D3	261.2 -> 157...	5.820	166744				
Diazepam	285.1 -> 193...	3/22/2017 5:39 PM	6.833	659	1.29	285.1 -> 153...	0.86	Diazepam-D5	290.1 -> 198...	6.852	130449				
Dihydrocodeine	302.2 -> 198...	3/22/2017 5:39 PM				302.2 -> 128...		Dihydrocodeine-D6	308.2 -> 202...	5.363	86989				
Diphenhydramine	256.2 -> 167...	3/22/2017 5:39 PM	6.432	17741...	Infinity	256.2 -> 152...	75.80	Diphenhydramine-D3	259.2 -> 167...	6.412	11087...				
Doxylamine	271.2 -> 182...	3/22/2017 5:39 PM	6.043	647	1.10	271.2 -> 167...	0.38	Doxylamine-D5	276.2 -> 187...	6.041	966012				
EDDP	279.2 -> 235...	3/22/2017 5:39 PM	6.306	124	0.49	279.2 -> 250...		EDDP-D3	282.2 -> 235...	6.387	53076				
Fentanyl	337.2 -> 105...	3/22/2017 5:39 PM	6.700	51	Infinity	337.2 -> 188...		Fentanyl-D5	342.3 -> 105...	6.660	335043				
Fluoxetine	310.1 -> 44.3	3/22/2017 5:39 PM	6.525	73	0.50	310.1 -> 148...		Fluoxetine-D6	316.2 -> 44.3	6.584	975914				
Hydrocodone	300.2 -> 198...	3/22/2017 5:39 PM	5.671	29024	25.88	300.2 -> 128...	Infinity	Hydrocodone-D6	306.2 -> 202...	5.834	130050				
Hydromorphone	286.2 -> 184...	3/22/2017 5:39 PM				286.2 -> 157...		Hydromorphone-D6	292.2 -> 185...	5.244	56568				
Ketamine	238.1 -> 125...	3/22/2017 5:39 PM	6.210	66	0.80	238.1 -> 220...		Ketamine-D4	242.1 -> 129...	6.249	50731				
Meprobamate	219.1 -> 158...	3/22/2017 5:39 PM				219.1 -> 97.1		Meprobamate-D7	226.2 -> 165...	5.783	57983				
Methadone	310.2 -> 265...	3/22/2017 5:39 PM	6.787	715	0.95	310.2 -> 105...		Methadone-D9	319.3 -> 268...	6.705	892895				
Methamphetamine	150.1 -> 91.1	3/22/2017 5:39 PM	5.397	42235	Infinity	150.1 -> 119...		Methamphetamine-D11	161.2 -> 97.1	5.355	313573				
Morphine	286.2 -> 201...	3/22/2017 5:39 PM	5.082	66704	269.39	286.2 -> 165...	12145...	Morphine-D6	292.2 -> 152...	5.000	3991				
Naloxone	328.2 -> 309...	3/22/2017 5:39 PM	6.480	2067	6.23	328.2 -> 211...		Naloxone-D5	333.2 -> 315...	6.052	204173				
Naltrexol	344.2 -> 326...	3/22/2017 5:39 PM	5.399	31	1.42	344.2 -> 308...		Naltrexol-D3	347.2 -> 329...	5.399	236832				
Naltrexone	342.2 -> 324...	3/22/2017 5:39 PM				342.2 -> 55.3		Naltrexone-D3	345.2 -> 327...	5.338	95				
Norbuprenorphine	414.3 -> 101...	3/22/2017 5:39 PM	6.191	183	2.90	414.3 -> 57.3	0.99	Norbuprenorphine-D3	417.3 -> 101...	6.191	29057				
Nordiazepam	271.1 -> 140...	3/22/2017 5:39 PM	6.614	33	1.15	271.1 -> 208...		Nordiazepam-D5	276.1 -> 140...	6.714	46377				
Norfentanyl	233.2 -> 84.2	3/22/2017 5:39 PM	5.660	37	0.46	233.2 -> 55.3	0.98	Norfentanyl-D5	238.2 -> 84.2	5.659	432250				
Norhydrocodone	286.2 -> 199...	3/22/2017 5:39 PM	5.082	3634	11.14	286.2 -> 171...	42.90	Norhydrocodone-D3	289.2 -> 202...	5.366	46993				
Noroxycodone	302.1 -> 284...	3/22/2017 5:39 PM	5.242	161	0.37	302.1 -> 186...	2.10	Noroxycodone-D3	305.2 -> 287...	5.241	66280				
O-desmethyl-tamadol	250.2 -> 58.3	3/22/2017 5:39 PM	5.270	932	2.02	250.2 -> 42.3	0.49	O-desmethyl-tamadol...	256.2 -> 64.3	5.249	591286				
Oxazepam	287.1 -> 240...	3/22/2017 5:39 PM				287.1 -> 268...		Oxazepam-D5	292.1 -> 246...	6.548	50653				
Oxycodone	316.2 -> 298...	3/22/2017 5:39 PM	5.302	307	1.94	316.2 -> 241...	Infinity	Oxycodone-D6	322.2 -> 304...	5.525	192505				
Oxycodone-D3	302.1 -> 284...	3/22/2017 5:39 PM	4.555	327	2.51	302.1 -> 227...	27.65	Oxycodone-D3	305.2 -> 287...	4.875	195441				
Phentermine	150.1 -> 65.2	3/22/2017 5:39 PM	5.437	2772	Infinity	150.1 -> 133...		Phentermine-D5	155.2 -> 96.2	5.457	275335				
Promethazine	285.1 -> 98.2	3/22/2017 5:39 PM	6.509	59	0.54	285.1 -> 71.3	1.11	Promethazine-D3	288.2 -> 89.2	6.913	13737...				
Quetiapine	384.2 -> 253...	3/22/2017 5:39 PM	6.820	47	0.94	384.2 -> 221...	2.83	Quetiapine-D8	392.2 -> 226...	6.839	284562				
Sertraline	306.1 -> 158...	3/22/2017 5:39 PM	7.054	317	71.11	306.1 -> 275...	164.93	Sertraline-D3	309.1 -> 275...	6.971	235224				
Sufentanil	387.2 -> 238...	3/22/2017 5:39 PM	7.043	660	Infinity	387.2 -> 111...	Infinity	Sufentanil-D5	392.2 -> 238...	7.042	380001				

Compound Method			p1 external control			p1 external control			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	Qualifier...	Name	Transition	RT	Resp.			
Temazepam	301.1 -> 255...	3/22/2017 5:39 PM	6.710	253	0.50	301.1 -> 283...	0.77	Temazepam-D5	306.1 -> 260...	6.689	290212			
Tramadol	264.2 -> 58.3	3/22/2017 5:39 PM	5.820	4031	1.82	264.2 -> 43.3	0.50	Tramadol-13C-D3	268.2 -> 58.3	5.799	837896			
Trazodone	372.2 -> 176...	3/22/2017 5:39 PM	7.045	910	2.04	372.2 -> 148...	1.06	Trazodone-D6	378.2 -> 182...	7.024	948308			
Venlafaxine	278.2 -> 58.3	3/22/2017 5:39 PM				278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	6.142	818872			
Zolpidem	308.2 -> 235...	3/22/2017 5:39 PM	6.567	168	Infinity	308.2 -> 263...		Zolpidem-D6	314.2 -> 235...	6.564	854946			

Compound Method			p1 negative		p1 negative Results		ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Qualifier 1 M...	S/N	Qualifier...	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	3/22/2017 5:19 PM	5.693	23	0.35	328.2 -> 211...			6-MAM-D6	334.2 -> 165...	5.645	38785
7-Aminoclonazepam	286.1 -> 121...	3/22/2017 5:19 PM				286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.713	100380
Acetyl Fentanyl	323.2 -> 105...	3/22/2017 5:19 PM				323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	6.459	207722
Acetyl Norfentanyl	219.1 -> 84.2	3/22/2017 5:19 PM	5.212	116	0.88	219.1 -> 56.3			Acetyl Norfentanyl-D5	224.2 -> 84.2	5.212	337087
a-hydroxyvalprazolam	325.1 -> 297...	3/22/2017 5:19 PM	6.622	25	0.72	325.1 -> 215...	5.92		a-hydroxyvalprazolam-D5	330.1 -> 302...	6.540	342854
alpha-PVP	232.2 -> 91.0	3/22/2017 5:19 PM	6.108	281	8.56	232.2 -> 77.1	0.42		alpha-PVP-D8	240.2 -> 91.1	6.066	446003
Alprazolam	309.1 -> 281...	3/22/2017 5:19 PM	6.465	1433	131.86	309.1 -> 205...	0.39		Alprazolam-D5	314.1 -> 286...	6.625	153723
Amphetamine	136.1 -> 91.1	3/22/2017 5:19 PM	5.154	32945	11.70	136.1 -> 119...	0.77		Amphetamine-D11	147.2 -> 130...	5.134	93785
Bupropion	240.1 -> 184...	3/22/2017 5:19 PM	6.392	103	0.26	240.1 -> 131...			Bupropion-D9	249.2 -> 185...	6.290	483564
Carisoprodol	261.2 -> 176...	3/22/2017 5:19 PM	6.248	34	0.40	261.2 -> 55.3			Carisoprodol-D7	268.2 -> 183...	6.269	256468
Chlorthalidone	325.2 -> 109...	3/22/2017 5:19 PM				325.2 -> 262...			Chlorthalidone-D6	331.2 -> 109...	6.418	686668
Clonazepam	316.1 -> 269...	3/22/2017 5:19 PM	6.625	208	1.65	316.1 -> 213...	4.08		Clonazepam-D4	320.1 -> 217...	6.482	17849
Codeine	300.2 -> 215...	3/22/2017 5:19 PM	5.671	321	8.07	300.2 -> 165...			Codeine-D6	306.2 -> 218...	5.629	30612
Cyclobenzaprine	276.2 -> 214...	3/22/2017 5:19 PM	6.714	26	0.27	276.2 -> 231...	1.14		Cyclobenzaprine-D3	279.2 -> 215...	6.794	415888
Dextromethorphan	272.2 -> 171...	3/22/2017 5:19 PM	6.513	181	0.73	272.2 -> 147...	0.73		Dextromethorphan-D3	275.2 -> 171...	6.553	189535
Dextropropfan	258.2 -> 157...	3/22/2017 5:19 PM	6.127	260	1.64	258.2 -> 133...			Dextropropfan-D3	261.2 -> 157...	5.820	165822
Diazepam	285.1 -> 193...	3/22/2017 5:19 PM	6.813	366	1.41	285.1 -> 153...	0.46		Diazepam-D5	290.1 -> 198...	6.852	127019
Dihydrocodeine	302.2 -> 198...	3/22/2017 5:19 PM				302.2 -> 128...			Dihydrocodeine-D6	308.2 -> 202...	5.363	92061
Diphenhydramine	256.2 -> 167...	3/22/2017 5:19 PM	6.432	1435	2.11	256.2 -> 152...			Diphenhydramine-D3	259.2 -> 167...	6.412	11551...
Doxylamine	271.2 -> 182...	3/22/2017 5:19 PM				271.2 -> 167...			Doxylamine-D5	276.2 -> 187...	6.041	953299
EDDP	279.2 -> 235...	3/22/2017 5:19 PM	6.408	190	1.07	279.2 -> 250...	0.38		EDDP-D3	282.2 -> 235...	6.367	69420
Fentanyl	337.2 -> 105...	3/22/2017 5:19 PM	6.700	29	0.77	337.2 -> 188...			Fentanyl-D5	342.3 -> 105...	6.660	379677
Fluoxetine	310.1 -> 44.3	3/22/2017 5:19 PM	6.545	256	0.43	310.1 -> 148...			Fluoxetine-D6	316.2 -> 44.3	6.584	10316...
Hydrocodone	300.2 -> 198...	3/22/2017 5:19 PM				300.2 -> 128...			Hydrocodone-D6	306.2 -> 202...	5.834	126576
Hydromorphone	286.2 -> 184...	3/22/2017 5:19 PM	5.286	490	38.85	286.2 -> 157...	0.76		Hydromorphone-D6	292.2 -> 185...	5.244	61443
Ketamine	238.1 -> 125...	3/22/2017 5:19 PM	6.189	69	0.34	238.1 -> 220...	0.52		Ketamine-D4	242.1 -> 129...	6.249	55544
Meperbamate	219.1 -> 158...	3/22/2017 5:19 PM	5.579	362	0.59	219.1 -> 97.1			Meperbamate-D7	226.2 -> 165...	5.783	61588
Methadone	310.2 -> 265...	3/22/2017 5:19 PM	6.868	717	1.22	310.2 -> 105...			Methadone-D9	319.3 -> 268...	6.705	913334
Methamphetamine	150.1 -> 91.1	3/22/2017 5:19 PM	5.397	41509	4.56	150.1 -> 119...			Methamphetamine-D11	161.2 -> 97.1	5.355	299889
Morphine	286.2 -> 201...	3/22/2017 5:19 PM	4.880	609	1.01	286.2 -> 165...	5.34		Morphine-D6	292.2 -> 152...	5.000	3869
Naloxone	328.2 -> 309...	3/22/2017 5:19 PM	6.113	1451	0.96	328.2 -> 211...			Naloxone-D5	333.2 -> 315...	6.052	201795
Naltrexol	344.2 -> 326...	3/22/2017 5:19 PM	5.521	156	1.41	344.2 -> 308...			Naltrexol-D3	347.2 -> 329...	5.399	254665
Naltrexone	342.2 -> 324...	3/22/2017 5:19 PM				342.2 -> 55.3			Naltrexone-D3	345.2 -> 327...		
Norbuprenorphine	414.3 -> 101...	3/22/2017 5:19 PM	6.191	90	9.19	414.3 -> 57.3	0.87		Norbuprenorphine-D3	417.3 -> 101...	6.191	32808
Nordiazepam	271.1 -> 140...	3/22/2017 5:19 PM				271.1 -> 208...			Nordiazepam-D5	276.1 -> 140...	6.714	41738
Norfentanyl	233.2 -> 84.2	3/22/2017 5:19 PM	5.783	103	1.17	233.2 -> 55.3	3.19		Norfentanyl-D5	238.2 -> 84.2	5.659	457857
Norhydrocodone	286.2 -> 199...	3/22/2017 5:19 PM	5.427	169	0.48	286.2 -> 171...			Norhydrocodone-D3	289.2 -> 202...	5.366	50457
Noroxycodone	302.1 -> 284...	3/22/2017 5:19 PM	5.263	146	0.33	302.1 -> 186...	0.86		Noroxycodone-D3	305.2 -> 287...	5.241	73278
O-desmethyl-tramadol	250.2 -> 58.3	3/22/2017 5:19 PM	5.270	1166	2.35	250.2 -> 42.3	0.54		O-desmethyl-tramadol...	256.2 -> 64.3	5.249	598717
Oxazepam	287.1 -> 240...	3/22/2017 5:19 PM	6.549	14	0.46	287.1 -> 268...			Oxazepam-D5	292.1 -> 246...	6.548	48331
Oxycodone	316.2 -> 298...	3/22/2017 5:19 PM	5.546	337	1.61	316.2 -> 241...			Oxycodone-D6	322.2 -> 304...	5.504	188304
Oxymorphone	302.1 -> 284...	3/22/2017 5:19 PM				302.1 -> 227...			Oxymorphone-D3	305.2 -> 287...	4.875	199309
Phentermine	150.1 -> 65.2	3/22/2017 5:19 PM	5.682	247	0.26	150.1 -> 133...			Phentermine-D5	155.2 -> 96.2	5.457	270116
Promethazine	285.1 -> 86.2	3/22/2017 5:19 PM	6.853	1171	1.01	285.1 -> 71.3	1.30		Promethazine-D3	288.2 -> 89.2	6.913	16014...
Quetiapine	384.2 -> 253...	3/22/2017 5:19 PM	6.861	77	1.23	384.2 -> 221...	0.99		Quetiapine-D8	392.2 -> 226...	6.839	290886
Sertraline	306.1 -> 158...	3/22/2017 5:19 PM	6.972	748	1.45	306.1 -> 275...	28.88		Sertraline-D3	309.1 -> 275...	6.971	263466
Sufentanil	387.2 -> 238...	3/22/2017 5:19 PM	7.002	690	Infinity	387.2 -> 111...	Infini...		Sufentanil-D5	392.2 -> 238...	7.042	240666



Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...		Qualif...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.			
Temazepam	301.1 -> 255...	3/22/2017 5:19 PM	6.507	443	1.81	301.1 -> 283...		Temazepam-D5	306.1 -> 260...	6.689	289504			
Tramadol	264.2 -> 58.3	3/22/2017 5:19 PM	5.820	4746	2.28	264.2 -> 43.3	0.70	Tramadol-13C-D3	268.2 -> 58.3	5.799	835636			
Trazodone	372.2 -> 176...	3/22/2017 5:19 PM	7.063	1289	1.32	372.2 -> 148...	1.77	Trazodone-D6	378.2 -> 182...	7.024	936928			
Venlafaxine	278.2 -> 58.3	3/22/2017 5:19 PM	6.143	273	0.54	278.2 -> 260...	0.60	Venlafaxine-D6	284.2 -> 64.3	6.142	813121			
Zolpidem	308.2 -> 235...	3/22/2017 5:19 PM	6.688	1360	3.11	308.2 -> 263...	1.66	Zolpidem-D6	314.2 -> 235...	6.564	821899			

Compound Method		p2 cal 1b			p2 cal 1b 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...	3/22/2017 5:10 PM	5.887	31883	97.67	284.1 -> 93.2	344.99	7-aminoflunitrazepam-D7	291.2 -> 138...	5.866	165899	
alpha-hydroxymidazolam	342.1 -> 324...	3/22/2017 5:10 PM	6.610	48115	35.89	342.1 -> 203...	35.91	alpha-hydroxymidazolam-...	346.1 -> 328...	6.610	270260	
Amtripyline	278.2 -> 91.2	3/22/2017 5:10 PM	6.945	59066	Infinity	278.2 -> 193...	Infinity	Amtripyline-D3	281.2 -> 91.2	6.924	404832	
Amoxapine	314.1 -> 271...	3/22/2017 5:10 PM	6.878	44108	Infinity	314.1 -> 193...	Infinity	Amtripyline-D3	281.2 -> 91.2	6.924	404832	
Benzoylcegonine	290.1 -> 168...	3/22/2017 5:10 PM	5.537	9299	3442.38	290.1 -> 105...	1310...	Carbamazepine-D8	298.2 -> 171...	5.516	4436	
Carbamazepine	237.1 -> 193...	3/22/2017 5:10 PM	6.282	16458	18.22	237.1 -> 194...	40.20	Carbamazepine-13C6	243.1 -> 200...	6.281	745011	
Chlordiazepoxide	300.1 -> 227...	3/22/2017 5:10 PM	6.758	20540	500.59	300.1 -> 282...	13.30	Chlordiazepoxide-D5	305.1 -> 286...	6.738	184737	
Clomipramine	315.2 -> 86.2	3/22/2017 5:10 PM	7.264	138332	Infinity	315.2 -> 58.3	Infinity	Clomipramine-D3	318.2 -> 89.2	7.262	819781	
Cocaine	304.2 -> 182...	3/22/2017 5:10 PM	6.087	119969	Infinity	304.2 -> 105...	Infinity	Cocaine-D3	307.2 -> 185...	6.066	460868	
Desipramine	267.2 -> 72.3	3/22/2017 5:10 PM	6.723	203860	Infinity	267.2 -> 44.3	Infinity	Desipramine-D3	270.2 -> 75.3	6.703	1002874	
Doxepin	280.2 -> 107...	3/22/2017 5:10 PM	6.620	85258	Infinity	280.2 -> 77.2	Infinity	Doxepin-D3	283.2 -> 107...	6.599	410718	
Estazolam	295.1 -> 267...	3/22/2017 5:10 PM	6.557	39884	72.81	295.1 -> 205...	735.38	Estazolam-D5	300.1 -> 272...	6.556	188950	
Flunitrazepam	314.1 -> 268...	3/22/2017 5:10 PM	6.594	34538	19.75	314.1 -> 239...	32.89	Flunitrazepam-D7	321.1 -> 245...	6.573	8059	
Flurazepam	388.2 -> 315...	3/22/2017 5:10 PM	6.729	115971	Infinity	388.2 -> 317...	3023...	Flurazepam-D5	300.1 -> 272...	6.556	188950	
Imipramine	281.2 -> 86.2	3/22/2017 5:10 PM	6.884	298663	234.00	281.2 -> 58.3	Infinity	Imipramine-D3	284.2 -> 61.3	6.862	832710	
Levamisole	205.1 -> 91.2	3/22/2017 5:10 PM	5.815	37567	12.18	205.1 -> 178...	Infinity	Cocaine-D3	307.2 -> 185...	6.066	460868	
Maprotiline	278.2 -> 91.2	3/22/2017 5:10 PM	6.153	10567	Infinity	278.2 -> 117...	Infinity	Meperidine-D4	252.2 -> 224...	6.116	231684	
MDA	180.1 -> 163...	3/22/2017 5:10 PM	5.368	28946	31.10	180.1 -> 105...	18.82	MDA-D5	185.1 -> 168...	5.347	154654	
MDEA	208.1 -> 163...	3/22/2017 5:10 PM	5.610	59381	Infinity	208.1 -> 105...	Infinity	MDEA-D6	214.2 -> 166...	5.630	312792	
MDMA	194.1 -> 163...	3/22/2017 5:10 PM	5.510	50021	Infinity	194.1 -> 105...	Infinity	MDMA-D6	200.2 -> 166...	5.489	31831	
Meperidine	248.2 -> 220...	3/22/2017 5:10 PM	6.116	41942	23.42	248.2 -> 174...	Infinity	Meperidine-D4	252.2 -> 224...	6.116	231684	
Methylphenidate	234.2 -> 84.2	3/22/2017 5:10 PM	5.955	189963	80.63	234.2 -> 56.3	Infinity	Meperidine-D4	252.2 -> 224...	6.116	231684	
Metoprolol	288.2 -> 116...	3/22/2017 5:10 PM	5.767	21399	25.99	288.2 -> 56.3	Infinity	Meperidine-D4	252.2 -> 224...	6.116	231684	
Midazolam	326.1 -> 223...	3/22/2017 5:10 PM	6.775	15229	34.29	326.1 -> 249...	74.83	Midazolam-D4	330.1 -> 295...	6.773	261066	
Mirtazapine	266.2 -> 195...	3/22/2017 5:10 PM	6.684	137861	Infinity	266.2 -> 72.3	83.09	Midazolam-D4	330.1 -> 295...	6.773	261066	
Mitragynine	399.2 -> 174...	3/22/2017 5:10 PM	6.709	54336	339.48	399.2 -> 238...	222.16	Carbamazepine-13C6	243.1 -> 200...	6.281	745011	
Normeperidine	234.1 -> 42.3	3/22/2017 5:10 PM	5.956	56485	Infinity	234.1 -> 160...	Infinity	Normeperidine-D4	238.2 -> 164...	5.934	194018	
Norpropoxyphene	326.2 -> 44.3	3/22/2017 5:10 PM	6.551	29228	Infinity	326.2 -> 252...	947.84	Normeperidine-D4	331.2 -> 44.3	6.530	121160	
Nortriptyline	264.2 -> 91.2	3/22/2017 5:10 PM	6.624	206506	Infinity	264.2 -> 233...	Infinity	Nortriptyline-D3	287.2 -> 233...	6.743	275991	
Ondansetron	294.2 -> 184...	3/22/2017 5:10 PM	6.395	68065	2111.53	294.2 -> 212...	Infinity	Pentazocine-13C3	289.2 -> 72.3	6.009	349944	
Pentazocine	286.2 -> 218...	3/22/2017 5:10 PM	6.009	78692	10043...	286.2 -> 41.3	145.00	Pentazocine-13C3	289.2 -> 72.3	6.009	349944	
Phenazepam	349.0 -> 206...	3/22/2017 5:10 PM	6.650	27017	3723.00	349.0 -> 183...	3227...	Phenazepam-D4	353.0 -> 183...	6.649	9348	
Phencyclidine	244.2 -> 86.2	3/22/2017 5:10 PM	6.259	133513	Infinity	244.2 -> 91.1	156.05	Phencyclidine-D5	249.2 -> 86.2	6.238	667544	
Phenylethylamine	253.1 -> 104...	3/22/2017 5:10 PM	6.197	4554	7.43	253.1 -> 182...	10.10	Phenylethylamine-D10	263.2 -> 192...	6.197	11629	
Prazepam	325.1 -> 271...	3/22/2017 5:10 PM	7.099	145047	216.65	325.1 -> 140...	251.11	Prazepam-D5	330.1 -> 276...	7.097	650087	
Primidone	219.1 -> 91.2	3/22/2017 5:10 PM	5.589	6405	Infinity	219.1 -> 162...	12.40	Prazepam-D5	330.1 -> 276...	7.097	650087	
Propoxyphene	340.2 -> 58.3	3/22/2017 5:10 PM	6.672	189190	Infinity	340.2 -> 266...	Infinity	Propoxyphene-D11	351.3 -> 277...	6.629	200053	
Protriptyline	264.2 -> 155...	3/22/2017 5:10 PM	6.583	144295	Infinity	264.2 -> 161...	Infinity	Nortriptyline-D3	267.2 -> 233...	6.743	275991	
Pseudoephedrine	166.1 -> 148...	3/22/2017 5:10 PM	4.965	647197	144.69	166.1 -> 133...	Infinity	Pseudoephedrine-D3	169.1 -> 151...	4.964	319816	
Tapentadol	222.2 -> 107...	3/22/2017 5:10 PM	5.793	89586	Infinity	222.2 -> 121...	31.51	Tapentadol-D3	225.2 -> 107...	5.793	475851	
Trimipramine	295.2 -> 100...	3/22/2017 5:10 PM	6.983	350622	Infinity	295.2 -> 58.3	285.74	Trimipramine-D3	298.2 -> 103...	6.962	1729665	
Verapamil	455.3 -> 165...	3/22/2017 5:10 PM	6.688	136128	Infinity	455.3 -> 150...	45.90	Trimipramine-D3	298.2 -> 103...	6.962	1729665	
Zaleplon	306.1 -> 236...	3/22/2017 5:10 PM	6.413	42115	59.64	306.1 -> 264...	6681...	Zaleplon-D4	310.2 -> 240...	6.392	156126	
Zopiclone	389.1 -> 244...	3/22/2017 5:10 PM				389.1 -> 216...		Zopiclone-D4	393.1 -> 244...			

not evaluated

Compound Method				p2 external control				p2 external control Results				ISTD Method			
Name	Transition	Acq. Date/Time	RT	Resp.	S/N	Qualifier 1 M...	Transition	S/N	Qualifier...	Name	Transition	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	3/22/2017 5:48 PM	5.887	66	2.06	284.1 -> 93.2	0.67	7-aminoflunitrazepam-D7	291.2 -> 138...	5.886	165489				
alpha-hydroxymidazolam	342.1 -> 324...	3/22/2017 5:48 PM	6.529	31	1.04	342.1 -> 203...	1.05	alpha-hydroxymidazolam-...	346.1 -> 328...	6.610	311786				
Amtripyline	278.2 -> 91.2	3/22/2017 5:48 PM	6.945	406677	Infinity	278.2 -> 105...	Infinit...	Amtripyline-D3	281.2 -> 91.2	6.944	401474				
Amoxapine	314.1 -> 271...	3/22/2017 5:48 PM	6.898	556	0.25	314.1 -> 193...	79.16	Amtripyline-D3	281.2 -> 91.2	6.944	401474				
Benzoylcegonine	290.1 -> 168...	3/22/2017 5:48 PM	5.558	181	1.47	290.1 -> 195...	1.94	Benzoylcegonine-D8	298.2 -> 171...	5.536	3746				
Carbamazepine	237.1 -> 193...	3/22/2017 5:48 PM	5.812	641	0.80	237.1 -> 194...	0.79	Carbamazepine-13C6	243.1 -> 200...	6.301	799463				
Chlordiazepoxide	300.1 -> 227...	3/22/2017 5:48 PM	6.657	82	47.61	300.1 -> 282...	0.79	Chlordiazepoxide-D5	305.1 -> 286...	6.758	211861				
Clomipramine	315.2 -> 86.2	3/22/2017 5:48 PM	7.081	210	1.00	315.2 -> 58.3	0.39	Clomipramine-D3	318.2 -> 89.2	6.897	188				
Cocaine	304.2 -> 182...	3/22/2017 5:48 PM				304.2 -> 105...		Cocaine-D3	307.2 -> 185...	6.066	513560				
Desipramine	267.2 -> 72.3	3/22/2017 5:48 PM	6.703	91620	Infinity	267.2 -> 44.3	30.16	Desipramine-D3	270.2 -> 75.3	6.723	10112...				
Doxepin	280.2 -> 107...	3/22/2017 5:48 PM	6.641	979	1.04	280.2 -> 77.2		Doxepin-D3	283.2 -> 107...	6.599	464597				
Estazolam	295.1 -> 267...	3/22/2017 5:48 PM	6.557	175	1.22	295.1 -> 205...		Estazolam-D5	300.1 -> 272...	6.556	224827				
Flunitrazepam	314.1 -> 268...	3/22/2017 5:48 PM	6.635	1094	0.82	314.1 -> 239...		Flunitrazepam-D7	321.1 -> 245...	6.593	10977				
Flurazepam	388.2 -> 315...	3/22/2017 5:48 PM	6.750	1643	0.56	388.2 -> 317...	7.49	Estazolam-D5	300.1 -> 272...	6.556	224827				
Imipramine	281.2 -> 86.2	3/22/2017 5:48 PM	6.822	6573	2.40	281.2 -> 58.3	1.21	Imipramine-D3	284.2 -> 61.3	6.862	845821				
Levamisole	205.1 -> 91.2	3/22/2017 5:48 PM	5.651	204	0.30	205.1 -> 178...	0.89	Cocaine-D3	307.2 -> 185...	6.066	513560				
Maprotiline	278.2 -> 91.2	3/22/2017 5:48 PM				278.2 -> 117...		Meperidine-D4	252.2 -> 224...	6.136	252362				
MDA	180.1 -> 163...	3/22/2017 5:48 PM				180.1 -> 105...		MDA-D5	185.1 -> 168...	5.347	166192				
MDEA	208.1 -> 163...	3/22/2017 5:48 PM	5.651	1103	0.64	208.1 -> 105...	0.70	MDEA-D6	214.2 -> 166...	5.630	336317				
MDMA	194.1 -> 163...	3/22/2017 5:48 PM				194.1 -> 105...		MDMA-D6	200.2 -> 166...	5.509	28588				
Meperidine	248.2 -> 220...	3/22/2017 5:48 PM				248.2 -> 174...		Meperidine-D4	252.2 -> 224...	6.136	252362				
Methylphenidate	234.2 -> 84.2	3/22/2017 5:48 PM	5.976	2977	1.47	234.2 -> 56.3		Meperidine-D4	252.2 -> 224...	6.136	252362				
Meperidol	268.2 -> 116...	3/22/2017 5:48 PM	5.849	408	0.95	268.2 -> 56.3	2.16	Meperidine-D4	252.2 -> 224...	6.136	252362				
Midazolam	326.1 -> 223...	3/22/2017 5:48 PM	6.714	43	0.46	326.1 -> 249...	0.61	Midazolam-D4	330.1 -> 295...	6.773	282982				
Mirtazapine	266.2 -> 195...	3/22/2017 5:48 PM	6.704	11688...	Infinity	266.2 -> 72.3	Infinit...	Midazolam-D4	330.1 -> 295...	6.773	282982				
Mitragyline	399.2 -> 174...	3/22/2017 5:48 PM				399.2 -> 238...		Carbamazepine-13C6	243.1 -> 200...	6.301	799463				
Normeperidine	234.1 -> 42.3	3/22/2017 5:48 PM	5.956	428	0.87	234.1 -> 160...		Normeperidine-D4	238.2 -> 164...	5.955	205237				
Norpropoxyphene	326.2 -> 44.3	3/22/2017 5:48 PM	6.551	303	0.60	326.2 -> 253...	0.43	Norpropoxyphene-D5	331.2 -> 44.3	6.551	119182				
Nortripyline	264.2 -> 91.2	3/22/2017 5:48 PM	6.684	7317	6.80	264.2 -> 232...	7.39	Nortripyline-D3	267.2 -> 233...	6.764	294746				
Ondansetron	294.2 -> 184...	3/22/2017 5:48 PM				294.2 -> 212...		Pentazocine-13C3	289.2 -> 72.3	6.029	345375				
Pentazocine	286.2 -> 218...	3/22/2017 5:48 PM	5.988	360	0.96	286.2 -> 41.3	0.62	Pentazocine-13C3	289.2 -> 72.3	6.029	345375				
Phenazepam	349.0 -> 206...	3/22/2017 5:48 PM	6.610	1813	11.79	349.0 -> 183...	0.58	Phenazepam-D4	353.0 -> 183...	6.649	11659				
Phencyclidine	244.2 -> 86.2	3/22/2017 5:48 PM	6.281	1261	0.97	244.2 -> 91.1	1.52	Phencyclidine-D5	249.2 -> 86.2	6.259	695201				
Phenylethanolamine	253.1 -> 104...	3/22/2017 5:48 PM	6.116	1708	1.50	253.1 -> 182...		Phenylethanolamine-D10	263.2 -> 192...	6.176	11742				
Prazepam	325.1 -> 271...	3/22/2017 5:48 PM	7.119	1117	2.81	325.1 -> 140...	0.44	Prazepam-D5	330.1 -> 276...	7.097	708834				
Pirindone	219.1 -> 91.2	3/22/2017 5:48 PM				219.1 -> 162...		Prazepam-D5	330.1 -> 276...	7.097	708834				
Propoxyphene	340.2 -> 58.3	3/22/2017 5:48 PM	6.672	3125	1.60	340.2 -> 266...	0.96	Propoxyphene-D11	351.3 -> 277...	6.629	201562				
Proprylthiopyline	264.2 -> 155...	3/22/2017 5:48 PM	6.583	700	1.68	264.2 -> 161...		Nortriptyline-D3	267.2 -> 233...	6.764	294746				
Pseudoephedrine	166.1 -> 148...	3/22/2017 5:48 PM				166.1 -> 133...		Pseudoephedrine-D3	169.1 -> 151...	4.985	335434				
Tapentadol	222.2 -> 107...	3/22/2017 5:48 PM				222.2 -> 121...		Tapentadol-D3	225.2 -> 107...	5.813	509204				
Trimipramine	295.2 -> 100...	3/22/2017 5:48 PM	7.003	2997	2.53	295.2 -> 58.3	3.72	Trimipramine-D3	298.2 -> 103...	6.982	17198...				
Verapamil	455.3 -> 165...	3/22/2017 5:48 PM	6.647	2038	8.20	455.3 -> 150...	78.68	Trimipramine-D3	298.2 -> 103...	6.982	17198...				
Zaleplon	306.1 -> 236...	3/22/2017 5:48 PM	6.147	195	1.07	306.1 -> 264...	0.19	Zaleplon-D4	310.2 -> 240...	6.413	170314				
Zopiclone	389.1 -> 244...	3/22/2017 5:48 PM	5.553	34	0.47	389.1 -> 216...	0.56	Zopiclone-D4	393.1 -> 244...	6.284	78				

Compound Method		p2 negative		p2 negative Results		Qualifier 1 M...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
7-amino-flunitrazepam	284.1 -> 135...	3/22/2017 5:29 PM	5.867	118	1.05	284.1 -> 93.2		7-amino-flunitrazepam-D7	291.2 -> 138...	5.886	170589
alpha-hydroxymidazolam	342.1 -> 324...	3/22/2017 5:29 PM	6.570	255	1.54	342.1 -> 203...	0.24	alpha-hydroxymidazolam-...	346.1 -> 328...	6.610	302370
Amiripylone	278.2 -> 91.2	3/22/2017 5:29 PM	6.884	1488	0.79	278.2 -> 105...		Amiripylone-D3	281.2 -> 91.2	6.924	434061
Amoxapine	314.1 -> 271...	3/22/2017 5:29 PM	6.777	25	0.48	314.1 -> 193...	29.09	Amiripylone-D3	281.2 -> 91.2	6.924	434061
Benzylegonine	290.1 -> 168...	3/22/2017 5:29 PM				290.1 -> 105...		Benzylegonine-D8	298.2 -> 171...	5.536	3552
Carbamazepine	237.1 -> 193...	3/22/2017 5:29 PM	6.728	79	0.67	237.1 -> 194...		Carbamazepine-13C6	243.1 -> 200...	6.301	788803
Chlordiazepoxide	300.1 -> 227...	3/22/2017 5:29 PM	6.556	386	3.31	300.1 -> 282...		Chlordiazepoxide-D5	305.1 -> 286...	6.758	213625
Clomipramine	315.2 -> 86.2	3/22/2017 5:29 PM	7.018	120	0.98	315.2 -> 58.3	0.49	Clomipramine-D3	318.2 -> 89.2	6.957	339
Cocaine	304.2 -> 182...	3/22/2017 5:29 PM				304.2 -> 105...		Cocaine-D3	307.2 -> 185...	6.066	504544
Desipramine	267.2 -> 72.3	3/22/2017 5:29 PM	6.723	1652	2.20	267.2 -> 44.3	7.85	Desipramine-D3	270.2 -> 75.3	6.723	10694...
Doxepin	280.2 -> 107...	3/22/2017 5:29 PM				280.2 -> 77.2		Doxepin-D3	283.2 -> 107...	6.599	476204
Estazolam	295.1 -> 267...	3/22/2017 5:29 PM	6.659	56	1.18	295.1 -> 205...	0.51	Estazolam-D5	300.1 -> 272...	6.556	221114
Flunitrazepam	314.1 -> 268...	3/22/2017 5:29 PM				314.1 -> 239...		Flunitrazepam-D7	321.1 -> 245...	6.593	11000
Flurazepam	388.2 -> 315...	3/22/2017 5:29 PM	6.750	512	3.37	388.2 -> 317...	4.51	Estazolam-D5	300.1 -> 272...	6.556	221114
Imipramine	281.2 -> 86.2	3/22/2017 5:29 PM	6.842	4237	3.03	281.2 -> 58.3	1.11	Imipramine-D3	284.2 -> 61.3	6.862	879088
Levamisole	205.1 -> 91.2	3/22/2017 5:29 PM				205.1 -> 178...		Cocaine-D3	307.2 -> 185...	6.066	504544
Maprotiline	278.2 -> 91.2	3/22/2017 5:29 PM				278.2 -> 117...		Meperidine-D4	252.2 -> 224...	6.136	240401
MDA	180.1 -> 163...	3/22/2017 5:29 PM				180.1 -> 105...		Meperidine-D4	185.1 -> 168...	5.347	160836
MDA	208.1 -> 163...	3/22/2017 5:29 PM				208.1 -> 105...		MDA-D5	214.2 -> 166...	5.630	325968
MDMA	194.1 -> 163...	3/22/2017 5:29 PM				194.1 -> 105...		MDMA-D6	200.2 -> 166...	5.509	29909
Meperidine	248.2 -> 220...	3/22/2017 5:29 PM				248.2 -> 174...		Meperidine-D4	252.2 -> 224...	6.136	240401
Mefenidate	234.2 -> 84.2	3/22/2017 5:29 PM	5.950	93	0.48	234.2 -> 56.3	7.61	Meperidine-D4	252.2 -> 224...	6.136	240401
Meloprolool	268.2 -> 116...	3/22/2017 5:29 PM	6.996	22	0.31	268.2 -> 56.3	8.97	Mefenidate	252.2 -> 224...	6.136	240401
Midazolam	326.1 -> 223...	3/22/2017 5:29 PM	6.765	812	0.73	326.1 -> 249...		Midazolam-D4	330.1 -> 295...	6.773	279570
Mirtazapine	266.2 -> 195...	3/22/2017 5:29 PM				266.2 -> 72.3		Carbamazepine-13C6	243.1 -> 200...	6.301	788803
Mirtazapine	399.2 -> 174...	3/22/2017 5:29 PM				399.2 -> 238...		Normeperidine-D4	238.2 -> 164...	5.955	205321
Normeperidine	234.1 -> 42.3	3/22/2017 5:29 PM	5.874	177	0.63	234.1 -> 160...	0.46	Normeperidine-D4	238.2 -> 164...	5.955	205321
Norpropoxyphene	326.2 -> 44.3	3/22/2017 5:29 PM				326.2 -> 252...		Nortriptyline-D3	331.2 -> 44.3	6.530	115406
Nortriptyline	264.2 -> 91.2	3/22/2017 5:29 PM	6.664	5456	4.44	264.2 -> 233...	0.51	Nortriptyline-D3	267.2 -> 233...	6.764	309578
Ondansetron	294.2 -> 184...	3/22/2017 5:29 PM				294.2 -> 212...		Pentazocine-13C3	289.2 -> 72.3	6.029	372924
Pentazocine	286.2 -> 218...	3/22/2017 5:29 PM	6.049	88	0.65	286.2 -> 41.3	0.77	Pentazocine-13C3	289.2 -> 72.3	6.029	372924
Phenazepam	349.0 -> 206...	3/22/2017 5:29 PM	6.610	1388	26.84	349.0 -> 183...	0.12	Phenazepam-D4	353.0 -> 183...	6.609	11739
Phencyclidine	244.2 -> 86.2	3/22/2017 5:29 PM	6.259	523	0.79	244.2 -> 91.1	0.96	Phencyclidine-D5	249.2 -> 86.2	6.238	757140
Phenylethanolamine	253.1 -> 104...	3/22/2017 5:29 PM	6.116	2523	2.00	253.1 -> 182...		Phenylethanolamine-D10	263.2 -> 192...	6.197	11658
Prazepam	325.1 -> 271...	3/22/2017 5:29 PM	7.079	626	0.76	325.1 -> 140...	0.34	Prazepam-D5	330.1 -> 276...	7.097	654449
Primidone	219.1 -> 91.2	3/22/2017 5:29 PM				219.1 -> 162...		Prazepam-D5	330.1 -> 276...	7.097	654449
Propoxyphene	340.2 -> 58.3	3/22/2017 5:29 PM	6.692	1860	1.19	340.2 -> 266...		Propoxyphene-D11	351.3 -> 277...	6.629	212155
Protriptyline	264.2 -> 155...	3/22/2017 5:29 PM	6.603	49	1.48	264.2 -> 161...		Nortriptyline-D3	267.2 -> 233...	6.764	309578
Pseudoephedrine	166.1 -> 148...	3/22/2017 5:29 PM				166.1 -> 133...		Pseudoephedrine-D3	169.1 -> 151...	4.964	322692
Tapentadol	222.2 -> 107...	3/22/2017 5:29 PM	5.731	440	0.96	222.2 -> 121...		Tapentadol-D3	225.2 -> 107...	5.813	500009
Trimipramine	295.2 -> 100...	3/22/2017 5:29 PM				295.2 -> 58.3		Trimipramine-D3	298.2 -> 103...	6.982	17927...
Verapamil	455.3 -> 165...	3/22/2017 5:29 PM	6.688	629	5.82	455.3 -> 150...	1.10	Trimipramine-D3	298.2 -> 103...	6.982	17927...
Zaleplon	306.1 -> 236...	3/22/2017 5:29 PM	6.372	141	0.67	306.1 -> 264...	0.52	Zaleplon-D4	310.2 -> 240...	6.413	163880
Zopiclone	389.1 -> 244...	3/22/2017 5:29 PM	5.289	21	0.18	389.1 -> 216...	0.50	Zopiclone-D4	393.1 -> 244...	5.067	17

THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 3-22-17

Analyst: 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** • **0.1% Formic Acid in water**
 - Mobile Phase B: **0.1% FA in MeOH** • **MTBE**
 - Blank/Negative Blood: **Lot 321632-1** • **Hexane**
 - **Column: Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
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: 3-22-17 ann 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** to wells of analytical (standards) plate. Mix via aspirate and dispense.
 - 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: 32217 cann screen
2. Make any necessary integration changes.
3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% 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

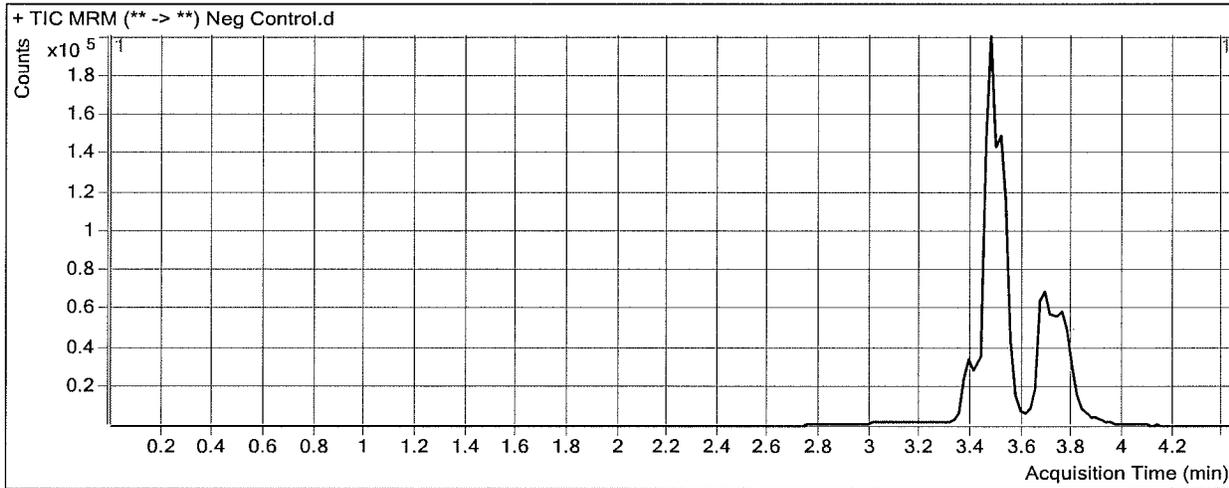
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 13:29 **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

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.446	23588	174172	0.1354	0.0000 < 5

ISP FORENSICS - Cd'A

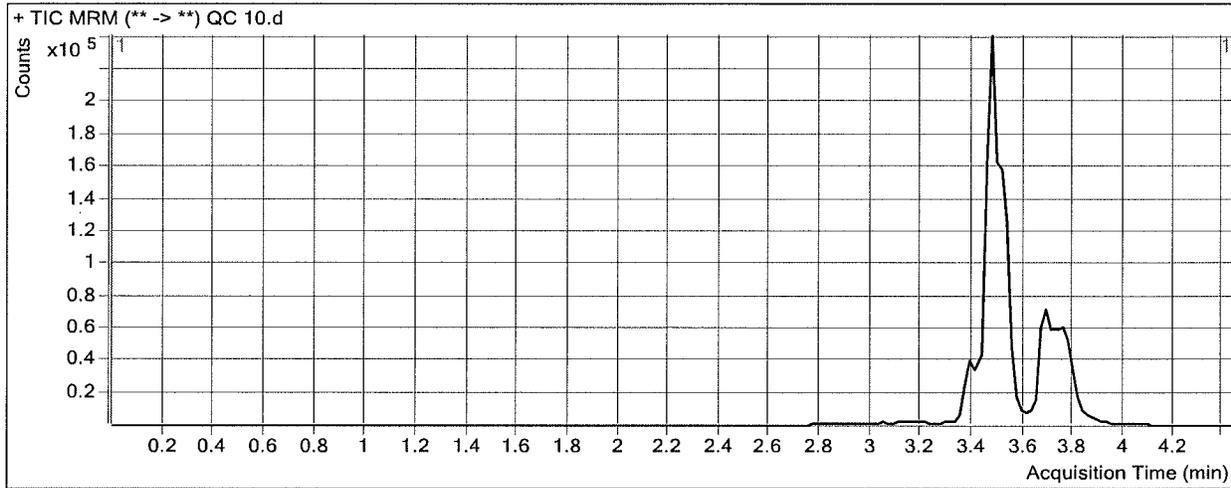
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 13:43 **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

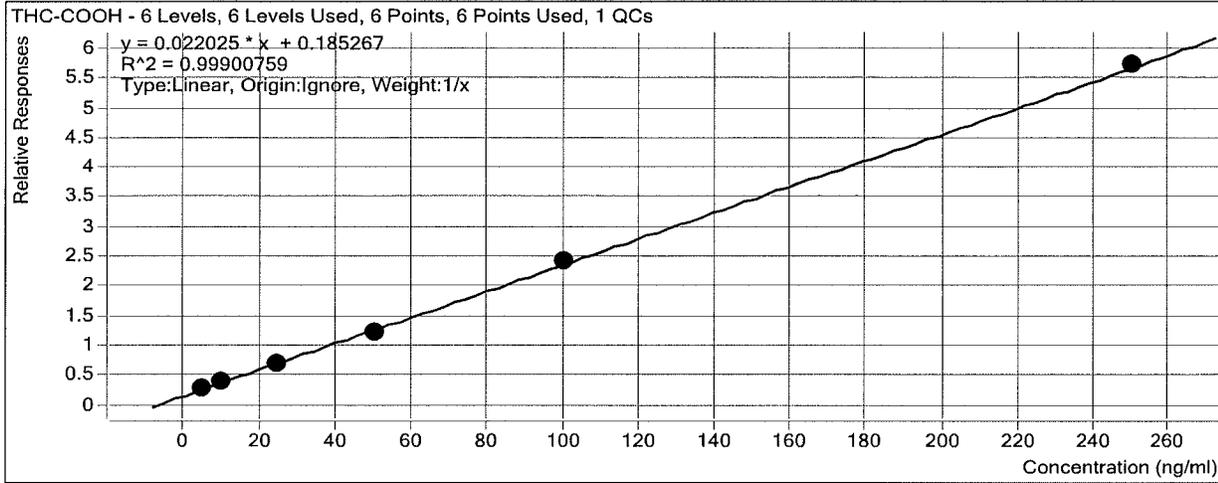
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.446	69900	163295	0.4281	11.0235
THC-OH	3.473	100375	879885	0.1141	10.0814
THC	3.760	2539	24696	0.1028	10.0720

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin

Last Calib Update 3/27/2017 11:53 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	5.4	107.1
cal 3	3	<input checked="" type="checkbox"/>	10	10.1	101.3
QC 10	3	<input checked="" type="checkbox"/>	10	11.0	110.2
cal 4	4	<input checked="" type="checkbox"/>	25	23.6	94.3
cal 5	5	<input checked="" type="checkbox"/>	50	47.2	94.3
cal 6	6	<input checked="" type="checkbox"/>	100	102.5	102.5
cal 7	7	<input checked="" type="checkbox"/>	250	251.3	100.5

ISP Forensics Calibration Curve Report

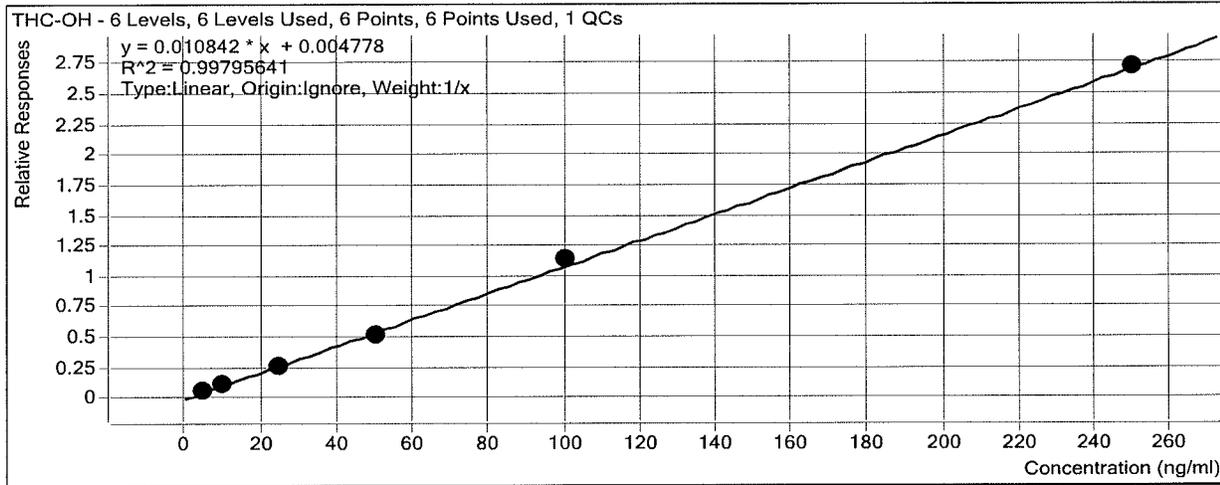
Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin

Last Calib Update 3/27/2017 11:53 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	113.9
cal 3	3	<input checked="" type="checkbox"/>	10	9.5	94.8
QC 10	3	<input checked="" type="checkbox"/>	10	10.1	100.8
cal 4	4	<input checked="" type="checkbox"/>	25	23.2	92.8
cal 5	5	<input checked="" type="checkbox"/>	50	46.8	93.6
cal 6	6	<input checked="" type="checkbox"/>	100	105.0	105.0
cal 7	7	<input checked="" type="checkbox"/>	250	249.8	99.9

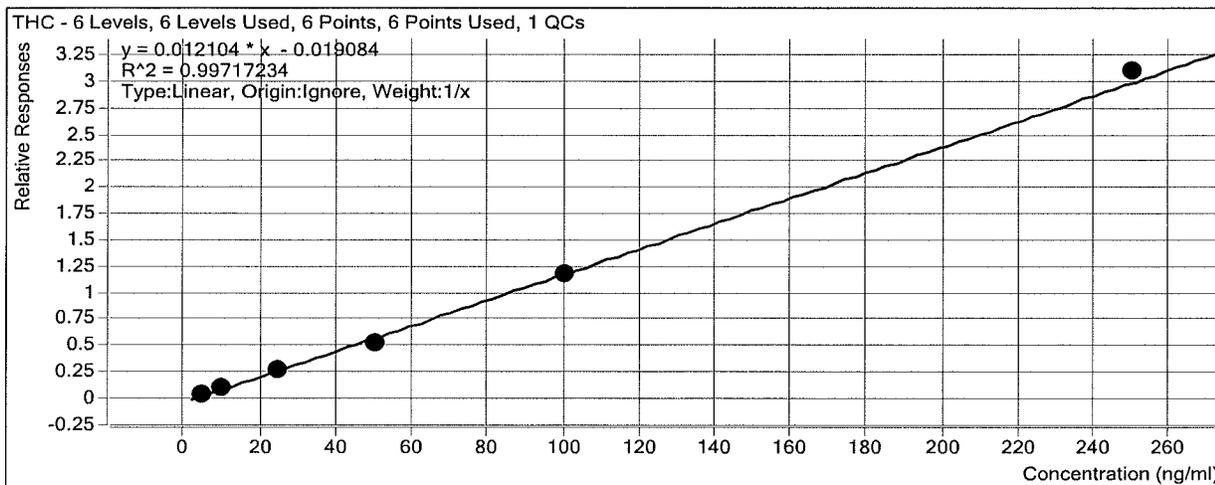
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin

Last Calib Update 3/27/2017 11:53 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	5.6	112.9
cal 3	3	<input checked="" type="checkbox"/>	10	10.1	101.4
QC 10	3	<input checked="" type="checkbox"/>	10	10.1	100.7
cal 4	4	<input checked="" type="checkbox"/>	25	23.8	95.1
cal 5	5	<input checked="" type="checkbox"/>	50	44.5	89.1
cal 6	6	<input checked="" type="checkbox"/>	100	98.6	98.6
cal 7	7	<input checked="" type="checkbox"/>	250	257.3	102.9

ISP FORENSICS - Cd'A

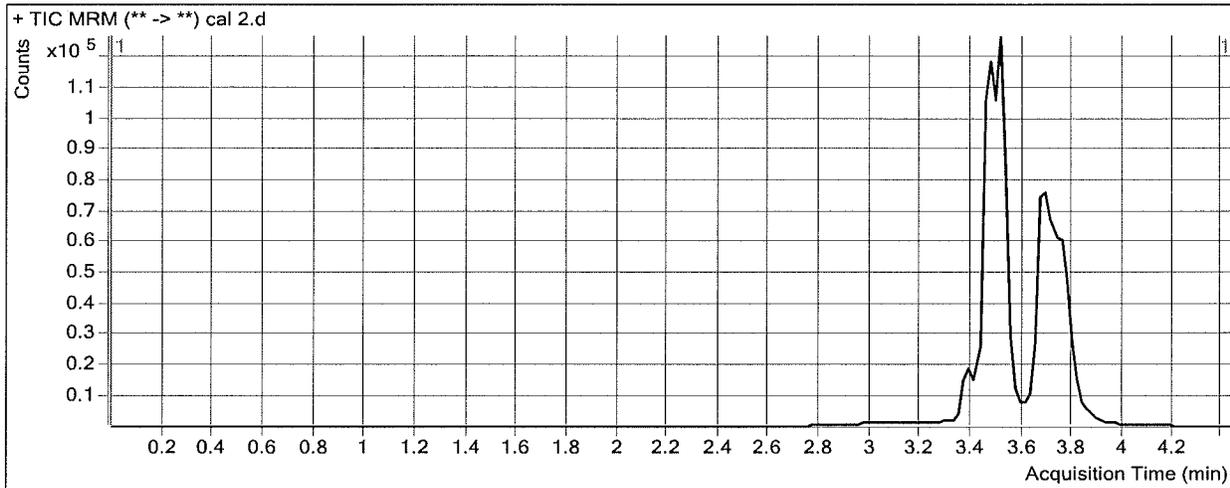
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 12:57 **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-COOH	3.446	23389	77150	0.3032	5.3530
THC-OH	3.513	41025	616846	0.0665	5.6937
THC	3.760	1225	24867	0.0493	5.6472

ISP FORENSICS - Cd'A

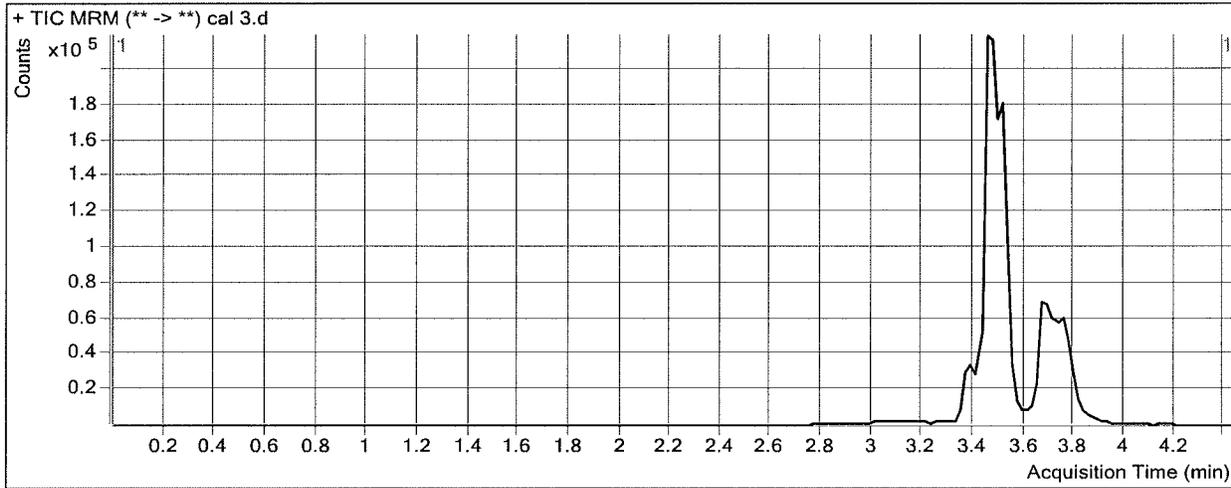
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 13:03 **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-COOH	3.446	60340	147719	0.4085	10.1342
THC-OH	3.473	101565	944663	0.1075	9.4760
THC	3.760	2476	23901	0.1036	10.1359

ISP FORENSICS - Cd'A

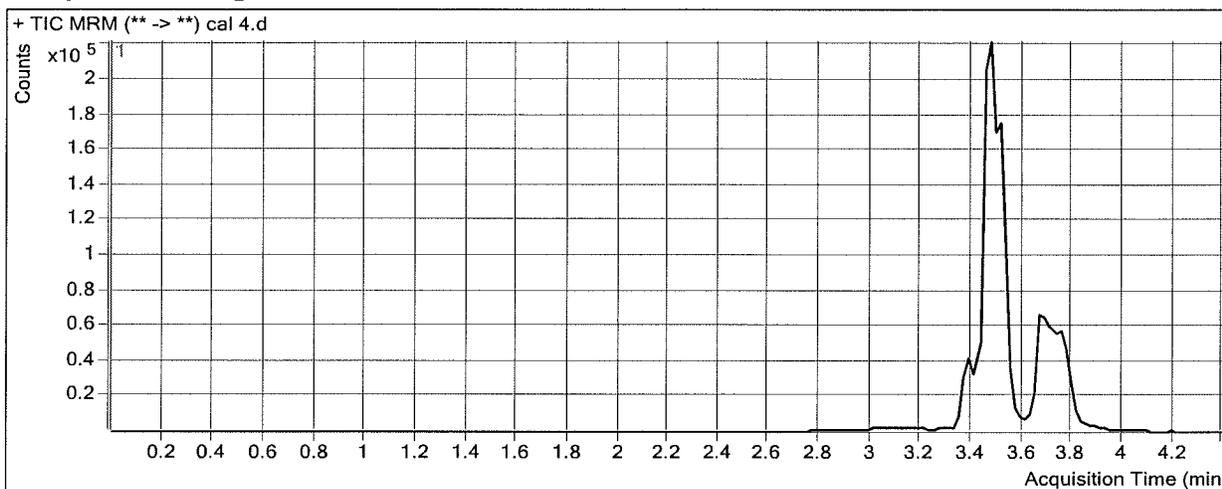
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 13:10 **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-COOH	3.446	91873	130442	0.7043	23.5661
THC-OH	3.473	205938	803273	0.2564	23.2063
THC	3.760	4994	18587	0.2687	23.7745

ISP FORENSICS - Cd'A

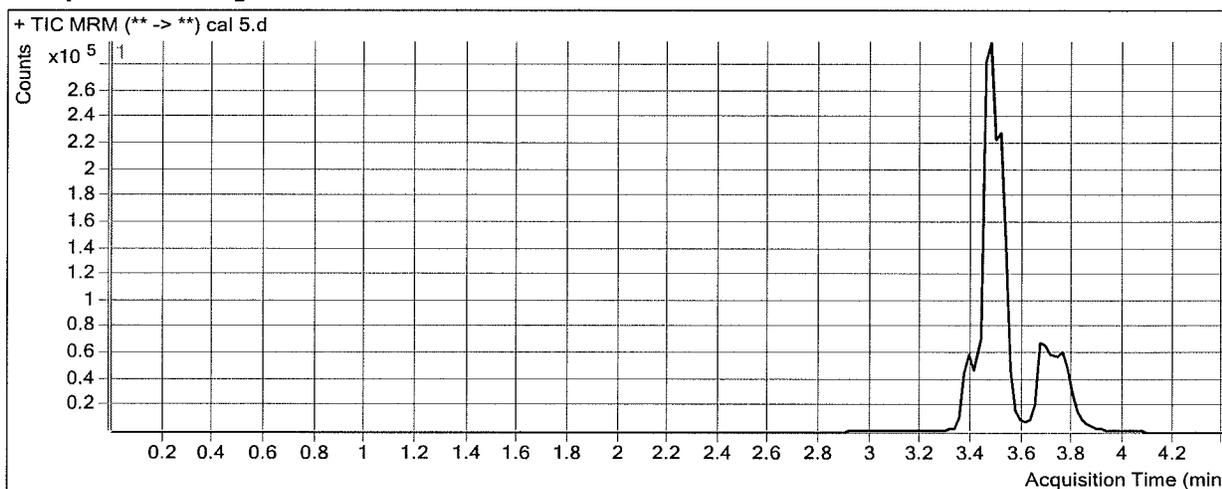
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 13:16 **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-COOH	3.446	167068	136518	1.2238	47.1509
THC-OH	3.473	445172	868946	0.5123	46.8131
THC	3.760	12048	23163	0.5201	44.5497

ISP FORENSICS - Cd'A

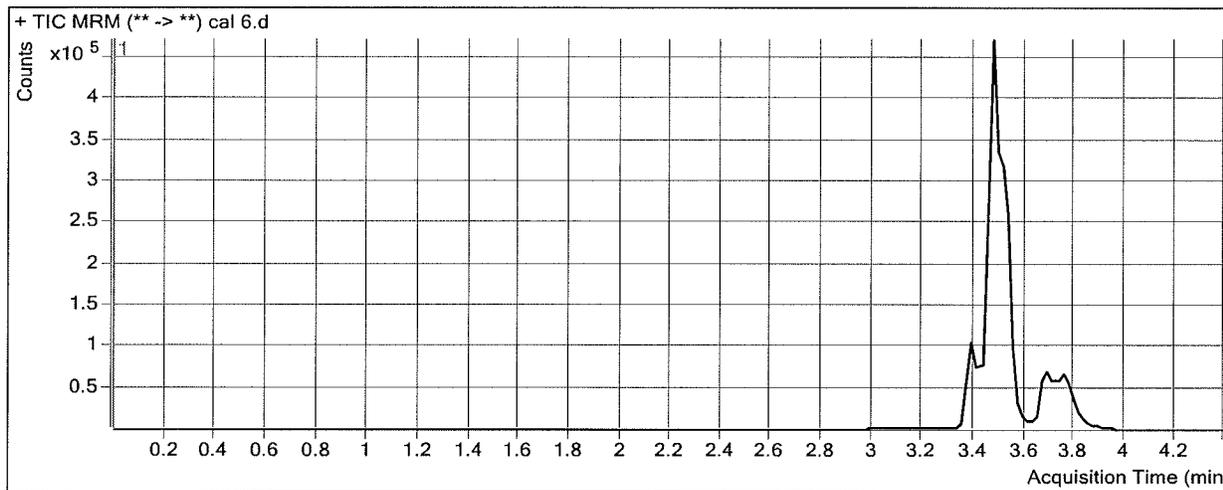
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 13:23 **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-COOH	3.446	323723	132490	2.4434	102.5236
THC-OH	3.473	956884	837191	1.1430	104.9826
THC	3.760	27480	23408	1.1740	98.5701

ISP FORENSICS - Cd'A

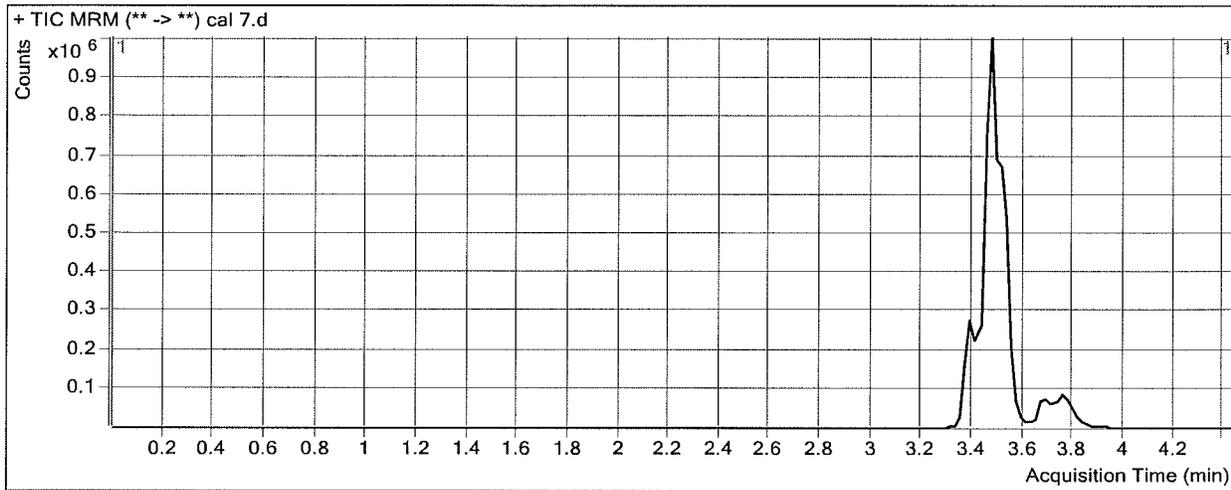
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\3-22-17 amn blood screen AM 25-26\QuantResults\32217 cann screen.batch.bin
Analysis Time 3/27/2017 11:53 AM **Analyst Name** ISP Tox
Report Time 3/27/2017 11:54 AM **Reporter Name** ISP Tox
Last Calib Update 3/27/2017 11:53 AM **Batch State** Processed

Analysis Info

Acq Time 2017-03-22 13:36 **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-COOH	3.446	1061150	185528	5.7196	251.2723
THC-OH	3.473	2750415	1013661	2.7133	249.8282
THC	3.760	85649	27669	3.0955	257.3226