

Worklist: 1905

Bylee

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1832	1	94617	AM 25/AM 26 Blood MultiDrug/	
C2017-1848	1	94757	AM 25/AM 26 Blood MultiDrug/	
C2017-1857	1	94847	AM 25/AM 26 Blood MultiDrug/	
C2017-1868	1	94872	AM 25/AM 26 Blood MultiDrug/	
C2017-1880	1	94965	AM 25/AM 26 Blood MultiDrug/	
C2017-1897	1	95282	AM 25/AM 26 Blood MultiDrug/	
C2017-1911	1	95441	AM 25/AM 26 Blood MultiDrug/	
C2017-1919	1	95520	AM 25/AM 26 Blood MultiDrug/	
C2017-1923	1	95595	AM 25/AM 26 Blood MultiDrug/	
C2017-1933	1	95746	AM 25/AM 26 Blood MultiDrug/	
C2017-1934	1	95749	AM 25/AM 26 Blood MultiDrug/	
M2017-2498	1	95082	AM 25/AM 26 Blood MultiDrug/	
M2017-2498	2	95388	AM 25/AM 26 Blood MultiDrug/	
M2017-3628	1	95085	AM 25/AM 26 Blood MultiDrug/	
M2017-3720	1	94729	AM 25/AM 26 Blood MultiDrug/	
M2017-3773	1	94731	AM 25/AM 26 Blood MultiDrug/	
M2017-4036	1	94735	AM 25/AM 26 Blood MultiDrug/	
M2017-4083	1	95449	AM 25/AM 26 Blood MultiDrug/	
M2017-4102	1	95450	AM 25/AM 26 Blood MultiDrug/	
M2017-4117	1	95451	AM 25/AM 26 Blood MultiDrug/	
M2017-4120	21	95452	AM 25/AM 26 Blood MultiDrug/	
M2017-4135	2	94971	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 9-25-17

Analyst: Anne Nord

Plate lot#: 0495940

Plate Expiration: 12/12/2017

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

Mobile phase B 0.1% Formic acid in MeOH
Ethyl Acetate

Blank Blood Lot: 17J20718

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

LCMS-QQQ ID: 62340

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 2609543** in wells of analytical (standards) plate.
- 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 minutes
- 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- 9. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID66819
- 13. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST- ANALYTIC

- 1. Create batch and process data.
Worklist path: 92517 blood screen AM25-26 Batch Name: 92517 mds p1
- 2. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/5 the response of administrative control.
- 3. Did all QCs pass for each analyte? (Y)/N
- 4. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

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: 3/31/18 lot 92117 by Amn

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 (92117) in 9900 ul neg blood

ppd 3/21/17 Exp 6/21/17 lot 62117

neg blood lot 321632-1

by Amn

Ppd 6-26-17 Exp 9-26-17 lot 92617 (may be listed as 92117)

neg blood lot 321632-1

by Amn

ppd 9-22-17 Exp 12-22-17 Lot 12-22-17

neg blood lot 17J20718

by Amn

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

Compound Method		p1 cal 1-1a				p1 cal 1-1a Results				ISTD Method				
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Qualifier 1 M...	MI	S/N	Qualifier 1 R...	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	9/25/2017 3:13 P...	5.321	1336	1708	328.2 -> 211...	4.38	6-MAM-D6	334.2 -> 165...	5.300	31628			
7-aminoclonazepam	286.1 -> 121...	9/25/2017 3:13 P...	5.613	25440	263.22	286.1 -> 222...	81.80	7-Aminoclonazepam-D4	290.1 -> 121...	5.591	102720			
Acetyl Fentanyl	323.2 -> 105...	9/25/2017 3:13 P...	6.238	20319	Infinity	323.2 -> 188...	1775.33	Acetyl Fentanyl-D5	328.2 -> 105...	6.216	10414...			
Acetyl Norfentanyl	219.1 -> 84.2	9/25/2017 3:13 P...	5.051	7034	18.28	219.1 -> 56.3	11.76	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.010	349178			
a-hydroxyalprazolam	325.1 -> 297...	9/25/2017 3:13 P...	6.420	5103	49.76	325.1 -> 215...	71.85	a-hydroxyalprazolam-D5	330.1 -> 302...	6.398	22426			
alpha-PVP	232.2 -> 91.0	9/25/2017 3:13 P...	5.845	98404	Infinity	232.2 -> 77.1	21.05	alpha-PVP-d8	240.2 -> 91.1	5.802	425868			
Alprazolam	309.1 -> 281...	9/25/2017 3:13 P...	6.505	42375	188.20	309.1 -> 205...	11237...	Alprazolam-D5	314.1 -> 286...	6.484	139642			
Amphetamine	136.1 -> 91.1	9/25/2017 3:13 P...	4.972	136669	Infinity	136.1 -> 119...	30.61	Amphetamine-D11	147.2 -> 130...	4.931	136452			
Bupropion	240.1 -> 184...	9/25/2017 3:13 P...	6.067	116253	245.08	240.1 -> 131...	42.38	Bupropion-D9	249.2 -> 185...	6.026	482199			
Carisoprodol	261.2 -> 176...	9/25/2017 3:13 P...	6.147	50818	2667.98	261.2 -> 55.3	49.17	Carisoprodol-D7	268.2 -> 183...	6.146	295440			
Citalopram	325.2 -> 109...	9/25/2017 3:13 P...	6.216	155726	139.38	325.2 -> 262...	49.65	Citalopram-D6	331.2 -> 109...	6.215	660366			
Clonazepam	316.1 -> 269...	9/25/2017 3:13 P...	6.361	17302	82.25	316.1 -> 213...	25.95	Clonazepam-D4	320.1 -> 217...	6.340	24841			
Codeine	300.2 -> 215...	9/25/2017 3:13 P...	5.265	5860	48.30	300.2 -> 165...	37.10	Codeine-D6	306.2 -> 218...	5.222	23467			
Cyclobenzaprine	276.2 -> 214...	9/25/2017 3:13 P...	6.552	92700	673.72	276.2 -> 231...	21.69	Cyclobenzaprine-D3	279.2 -> 215...	6.551	377698			
Dextromethorphan	272.2 -> 171...	9/25/2017 3:13 P...	6.289	42116	186.44	272.2 -> 147...	22.51	Dextromethorphan-D3	275.2 -> 171...	6.289	186599			
Dextropropfan	258.2 -> 157...	9/25/2017 3:13 P...	5.617	33156	113.38	258.2 -> 133...	104.39	Dextropropfan-D3	261.2 -> 157...	5.596	158839			
Diazepam	285.1 -> 193...	9/25/2017 3:13 P...	6.711	34275	44.36	285.1 -> 153...	39.65	Diazepam-D5	290.1 -> 198...	6.710	131297			
Dihydrocodeine	302.2 -> 198...	9/25/2017 3:13 P...	5.060	18616	36.50	302.2 -> 128...	3768.49	Dihydrocodeine-D6	308.2 -> 202...	5.018	85487			
Diphenhydramine	256.2 -> 167...	9/25/2017 3:13 P...	6.209	220196	53.76	256.2 -> 152...	14.46	Diphenhydramine-D3	259.2 -> 167...	6.189	10939...			
Doxylamine	271.2 -> 182...	9/25/2017 3:13 P...	5.860	185658	51.47	271.2 -> 167...	72.54	Doxylamine-D5	276.2 -> 187...	5.838	906469			
EDDP	279.2 -> 235...	9/25/2017 3:13 P...	6.205	150661	2270.18	279.2 -> 250...	353.13	EDDP-D3	282.2 -> 235...	6.205	63038			
Fentanyl	337.2 -> 105...	9/25/2017 3:13 P...	6.438	23059	36.89	337.2 -> 188...	98.58	Fentanyl-D5	342.3 -> 105...	6.418	10706...			
Fluoxetine	310.1 -> 44.3	9/25/2017 3:13 P...	6.424	247303	1211.92	310.1 -> 148...	340.01	Oxycodone-D6	322.2 -> 304...	5.200	184287			
Hydrocodone	300.2 -> 198...	9/25/2017 3:13 P...	5.489	19466	319.25	300.2 -> 128...	153.68	Hydrocodone-D6	306.2 -> 202...	5.446	142626			
Hydromorphone	286.2 -> 184...	9/25/2017 3:13 P...	4.820	15746	79.88	286.2 -> 157...	37.07	Hydromorphone-D6	292.2 -> 185...	4.758	44513			
Ketamine	238.1 -> 125...	9/25/2017 3:13 P...	6.007	76473	295.99	238.1 -> 220...	105.65	Ketamine-D4	242.1 -> 129...	5.986	263277			
Meprobamate	219.1 -> 158...	9/25/2017 3:13 P...	5.682	10269	92.49	219.1 -> 97.1	10.18	Meprobamate-D7	226.2 -> 165...	5.661	55762			
Methadone	310.2 -> 265...	9/25/2017 3:13 P...	6.525	175913	180.56	310.2 -> 105...	213.28	Methadone-D9	319.3 -> 268...	6.523	903294			
Methamphetamine	150.1 -> 91.1	9/25/2017 3:13 P...	5.153	171141	Infinity	150.1 -> 119...	6.39	Methamphetamine-D11	161.2 -> 97.1	5.133	385782			
Morphine	286.2 -> 201...	9/25/2017 3:13 P...	4.518	3541	8.53	286.2 -> 165...	17.44	Morphine-D6	292.2 -> 152...	4.477	1776			
Naloxone	328.2 -> 309...	9/25/2017 3:13 P...	5.525	369	1.87	328.2 -> 211...	45.33	Naloxone-D5	393.2 -> 315...	5.381	348			
Naltrexol	344.2 -> 324...	9/25/2017 3:13 P...	5.157	60185	366.11	344.2 -> 308...	2280.08	Naltrexol-D3	347.2 -> 329...	5.136	228959			
Naltrexone	342.2 -> 324...	9/25/2017 3:13 P...	5.360	38925	Infinity	342.2 -> 55.3	92.36	Naltrexone-D3	345.2 -> 327...	5.318	157647			
Norbuprenorphine	414.3 -> 101...	9/25/2017 3:13 P...	6.029	6265	836.37	414.3 -> 57.3	557.96	Norbuprenorphine-D3	417.3 -> 101...	6.009	22843			
Nordiazepam	271.1 -> 140...	9/25/2017 3:13 P...	6.574	20961	37.87	271.1 -> 208...	5022.50	Nordiazepam-D5	276.1 -> 140...	6.573	56863			
Norfentanyl	233.2 -> 84.2	9/25/2017 3:13 P...	5.517	115799	5354.15	233.2 -> 55.3	66.61	Norfentanyl-D5	238.2 -> 84.2	5.496	474321			
Norhydrocodone	286.2 -> 199...	9/25/2017 3:13 P...	5.185	1207	5.77	286.2 -> 171...	3.23	Norhydrocodone-D3	289.2 -> 202...	5.123	39272			
Noroxycodone	302.1 -> 284...	9/25/2017 3:13 P...	5.060	12491	5.75	302.1 -> 186...	17.45	Noroxycodone-D3	305.2 -> 287...	5.039	85577			
O-desmethyl-trama...	250.2 -> 58.3	9/25/2017 3:13 P...	5.088	156334	82.78	250.2 -> 42.3	40.04	O-desmethyl-tramadol...	256.2 -> 64.3	5.067	617891			
Oxazepam	287.1 -> 240...	9/25/2017 3:13 P...	6.406	18127	42.02	287.1 -> 268...	92.96	Oxazepam-D5	292.1 -> 246...	6.386	84955			
Oxycodone	316.2 -> 298...	9/25/2017 3:13 P...	5.241	40011	30.53	316.2 -> 241...	11.79	Oxycodone-D6	322.2 -> 304...	5.200	184287			
Oxymorphone	302.1 -> 284...	9/25/2017 3:13 P...	4.495	32544	44.23	302.1 -> 227...	96.73	Oxymorphone-D3	305.2 -> 287...	4.453	152909			
Phentermine	150.1 -> 65.2	9/25/2017 3:13 P...	5.296	34406	Infinity	150.1 -> 133...	3.03	Phentermine-D5	155.2 -> 96.2	5.275	358280			
Promethazine	285.1 -> 86.2	9/25/2017 3:13 P...	6.631	271929	925.03	285.1 -> 71.3	94.45	Promethazine-D3	288.2 -> 89.2	6.610	14626...			
Quetiapine	384.2 -> 253...	9/25/2017 3:13 P...	6.680	231259	649.71	384.2 -> 221...	514.77	Quetiapine-D8	392.2 -> 226...	6.659	266502			
Serralline	306.1 -> 158...	9/25/2017 3:13 P...	6.769	53118	174.17	306.1 -> 275...	148.93	Serralline-D3	309.1 -> 275...	6.748	248173			

Not evaluated

Compound Method		p1 cal 1-1a			p1 cal 1-1a Results			Qualifier 1 M...			Qualifier 1 R...			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.				
Temazepam	301.1 -> 255...	9/25/2017 3:13 P...	6.548	59168	70.43	301.1 -> 283...	12.07	Temazepam-D5	306.1 -> 260...	6.527	269308						
Tamadol	264.2 -> 58.3	9/25/2017 3:13 P...	5.616	192650	48.94	264.2 -> 43.3	11.74	Tamadol-13C-D3	268.2 -> 58.3	5.616	822567						
Trazodone	372.2 -> 176...	9/25/2017 3:13 P...	6.843	223845	227.51	372.2 -> 148...	181.98	Trazodone-D6	378.2 -> 182...	6.822	838257						
Venlafaxine	278.2 -> 58.3	9/25/2017 3:13 P...	5.961	197410	166.02	278.2 -> 260...	23.82	Venlafaxine-D6	284.2 -> 64.3	5.960	783587						
Zolpidem	308.2 -> 235...	9/25/2017 3:13 P...	6.425	184131	Infinity	308.2 -> 263...	125.97	Zolpidem-D6	314.2 -> 235...	6.402	830882						

Compound Method			p1 negative			p1 negative Results			ISTD Method					
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Qualifier 1 M...	MI	S/N	Qualifier...	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	9/25/2017 3:32 PM					328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5:279	34957
7-Aminoclonazepam	286.1 -> 121...	9/25/2017 3:32 PM					286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5:591	98897
Acetyl Fentanyl	323.2 -> 105...	9/25/2017 3:32 PM					323.2 -> 188...				Acetyl Fentanyl-D5	328.2 -> 105...	6:216	10463...
Acetyl Norfentanyl	219.1 -> 84.2	9/25/2017 3:32 PM					219.1 -> 56.3				Acetyl Norfentanyl-D5	224.2 -> 84.2	5:010	328711
a-hydroxylalprazolam	325.1 -> 297...	9/25/2017 3:32 PM					325.1 -> 215...				a-hydroxylalprazolam-D5	330.1 -> 302...	6:398	28947
alpha-PVP	232.2 -> 91.0	9/25/2017 3:32 PM					232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5:802	393417
Alprazolam	309.1 -> 281...	9/25/2017 3:32 PM	6.342	3615		6.36	309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6:484	153673
Amphetamine	136.1 -> 91.1	9/25/2017 3:32 PM	4.972	10623		4.51	136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	4:911	111061
Bupropion	240.1 -> 184...	9/25/2017 3:32 PM					240.1 -> 131...				Bupropion-D9	249.2 -> 185...	6:026	446400
Carisoprodol	261.2 -> 176...	9/25/2017 3:32 PM					261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	6:126	266312
Chlorthalidone	325.2 -> 109...	9/25/2017 3:32 PM					325.2 -> 262...				Chlorthalidone-D6	331.2 -> 109...	6:195	660798
Clonazepam	316.1 -> 269...	9/25/2017 3:32 PM	6.361	49		0.40	316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6:340	24343
Codaine	300.2 -> 215...	9/25/2017 3:32 PM	4.697	74		0.37	300.2 -> 165...				Codaine-D6	306.2 -> 218...	5:222	21743
Cyclobenzaprine	272.2 -> 214...	9/25/2017 3:32 PM	6.613	15		0.55	276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6:551	380671
Dextromethorphan	272.2 -> 171...	9/25/2017 3:32 PM	6.613	39		0.55	272.2 -> 147...			0.25	Dextromethorphan-D3	275.2 -> 171...	6:289	181396
Dextropropfan	258.2 -> 157...	9/25/2017 3:32 PM	5.576	78		0.84	258.2 -> 133...				Dextropropfan-D3	261.2 -> 157...	5:596	152045
Diazepam	285.1 -> 193...	9/25/2017 3:32 PM					285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6:690	128654
Dihydrocodeine	302.2 -> 198...	9/25/2017 3:32 PM					302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	5:018	79101
Diphenhydramine	256.2 -> 167...	9/25/2017 3:32 PM					256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	6:189	10450...
Doxylamine	271.2 -> 182...	9/25/2017 3:32 PM	5.697	342		0.69	271.2 -> 167...			0.44	Doxylamine-D5	276.2 -> 187...	5:838	820305
EDDP	279.2 -> 235...	9/25/2017 3:32 PM	6.266	60		0.34	279.2 -> 250...			1.10	EDDP-D3	282.2 -> 235...	6:205	61194
Fentanyl	337.2 -> 105...	9/25/2017 3:32 PM	6.235	84		0.29	337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	6:418	10719...
Fluoxetine	310.1 -> 44.3	9/25/2017 3:32 PM	6.444	504		0.91	310.1 -> 148...			0.41	Oxycodone-D6	322.2 -> 304...	5:200	177194
Hydrocodone	300.2 -> 198...	9/25/2017 3:32 PM					300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5:425	129980
Hydromorphone	286.2 -> 184...	9/25/2017 3:32 PM	5.185	241		0.98	286.2 -> 157...				Hydromorphone-D6	292.2 -> 185...	4:758	43068
Ketamine	238.1 -> 125...	9/25/2017 3:32 PM	5.844	173		2.87	238.1 -> 220...			74.87	Ketamine-D4	242.1 -> 129...	5:986	257143
Meperbarmate	219.1 -> 158...	9/25/2017 3:32 PM	5.723	51		0.32	219.1 -> 97.1				Meperbarmate-D7	226.2 -> 165...	5:661	56786
Methadone	310.2 -> 285...	9/25/2017 3:32 PM	6.504	825		1.13	310.2 -> 105...			1.01	Methadone-D9	319.3 -> 268...	6:523	860929
Methamphetamine	150.1 -> 91.1	9/25/2017 3:32 PM	5.194	39007		2.10	150.1 -> 119...				Methamphetamine-D11	161.2 -> 97.1	5:112	263820
Morphine	286.2 -> 201...	9/25/2017 3:32 PM	4.860	392		0.96	286.2 -> 165...			10.26	Morphine-D6	292.2 -> 152...	4:457	1779
Naloxone	328.2 -> 309...	9/25/2017 3:32 PM	5.117	683		0.51	328.2 -> 211...			85.70	Naloxone-D5	333.2 -> 315...	5:239	53
Naltrexol	344.2 -> 326...	9/25/2017 3:32 PM	5.319	3379		10.52	344.2 -> 308...				Naltrexol-D3	347.2 -> 329...	5:136	217918
Naltrexone	342.2 -> 324...	9/25/2017 3:32 PM	5.319	78		2.17	342.2 -> 55.3			0.64	Naltrexone-D3	345.2 -> 327...	5:298	161500
Norbuprenorphine	414.3 -> 101...	9/25/2017 3:32 PM	6.009	197		2.13	414.3 -> 57.3			0.78	Norbuprenorphine-D3	417.3 -> 101...	5:989	25190
Nordiazepam	271.1 -> 140...	9/25/2017 3:32 PM	6.493	96		0.67	271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6:573	61954
Nortentanyl	233.2 -> 84.2	9/25/2017 3:32 PM					233.2 -> 55.3				Nortentanyl-D5	238.2 -> 84.2	5:476	470056
Norhydrocodone	286.2 -> 199...	9/25/2017 3:32 PM	5.205	229		4.97	286.2 -> 171...				Norhydrocodone-D3	289.2 -> 202...	5:123	34989
Noroxycodone	302.1 -> 284...	9/25/2017 3:32 PM	5.067	713		1.26	250.2 -> 42.3			0.29	O-desmethyl-tramadol...	256.2 -> 64.3	5:067	588349
Oxazepam	287.1 -> 240...	9/25/2017 3:32 PM	6.427	75		1.34	287.1 -> 268...			2.33	Oxazepam-D5	292.1 -> 246...	6:386	91872
Oxycodone	316.2 -> 298...	9/25/2017 3:32 PM	5.200	792		1.36	316.2 -> 241...			0.24	Oxycodone-D6	322.2 -> 304...	5:200	177194
Oxymorphone	302.1 -> 284...	9/25/2017 3:32 PM					302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4:453	142771
Phentermine	150.1 -> 65.2	9/25/2017 3:32 PM					150.1 -> 133...				Phentermine-D5	155.2 -> 96.2	5:275	315576
Promethazine	285.1 -> 86.2	9/25/2017 3:32 PM	6.611	534		2.20	285.1 -> 71.3			0.43	Promethazine-D3	288.2 -> 89.2	6:610	14356...
Quetiapine	384.2 -> 253...	9/25/2017 3:32 PM	6.720	150		1.17	384.2 -> 221...			0.83	Quetiapine-D8	392.2 -> 226...	6:659	254059
Seitaline	306.1 -> 158...	9/25/2017 3:32 PM	6.425	23		0.44	306.1 -> 275...			3.83	Seitaline-D3	309.1 -> 275...	6:748	246894

Compound Method		p1 negative		p1 negative Results					Qualifier 1 M...		Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
Tamazepam	301.1 -> 255...	9/25/2017 3:32 PM	6.810	334		0.47	301.1 -> 283..		0.45	Tamazepam-D5	306.1 -> 260..	6.527	286879			
Tamadol	264.2 -> 58.3	9/25/2017 3:32 PM	5.616	5751		1.24	264.2 -> 43.3		0.91	Tamadol-13C-D3	268.2 -> 58.3	5.595	811300			
Trazodone	372.2 -> 176...	9/25/2017 3:32 PM	6.863	1299		1.78	372.2 -> 148..		1.39	Trazodone-D6	378.2 -> 182..	6.822	800539			
Venlafaxine	278.2 -> 58.3	9/25/2017 3:32 PM	5.940	1251		0.57	278.2 -> 260..		0.45	Venlafaxine-D6	284.2 -> 64.3	5.939	757781			
Zolpidem	308.2 -> 235...	9/25/2017 3:32 PM	6.323	196		1.47	308.2 -> 263..			Zolpidem-D6	314.2 -> 235...	6.402	827708			

Compound Method		p1 external control			p1 external control Results			Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.		
6-MAM	328.2 -> 165...	9/25/2017 3:52 PM					328.2 -> 211...			6-MAM-D6	334.2 -> 165...	5.279	31342		
7-Aminoclonazepam	286.1 -> 121...	9/25/2017 3:52 PM					286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.571	102377		
Acetyl Fentanyl	323.2 -> 105...	9/25/2017 3:52 PM					323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	6.216	10001...		
Acetyl Norfentanyl	219.1 -> 84.2	9/25/2017 3:52 PM	5.030	117		2.87	219.1 -> 56.3		24.34	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.010	324175		
a-hydroxyalprazolam	325.1 -> 297...	9/25/2017 3:52 PM					325.1 -> 215...			a-hydroxyalprazolam-D5	330.1 -> 302...	6.398	26566		
alpha-PVP	232.2 -> 91.0	9/25/2017 3:52 PM					232.2 -> 77.1			alpha-PVP-d8	240.2 -> 91.1	5.802	385358		
Alprazolam	309.1 -> 281...	9/25/2017 3:52 PM	6.322	2633		4.82	309.1 -> 205...			Alprazolam-D5	314.1 -> 286...	6.484	153989		
Amphetamine	136.1 -> 91.1	9/25/2017 3:52 PM					136.1 -> 119...			Amphetamine-D11	147.2 -> 130...	4.911	100992		
Bupropion	240.1 -> 184...	9/25/2017 3:52 PM					240.1 -> 131...			Bupropion-D9	249.2 -> 185...	6.026	411924		
Carisoprodol	261.2 -> 176...	9/25/2017 3:52 PM					261.2 -> 55.3			Carisoprodol-D7	268.2 -> 183...	6.146	286444		
Citalopram	325.2 -> 109...	9/25/2017 3:52 PM					325.2 -> 262...			Citalopram-D6	331.2 -> 109...	6.195	631653		
Clonazepam	316.1 -> 269...	9/25/2017 3:52 PM	6.280	144		1.14	316.1 -> 213...			Clonazepam-D4	320.1 -> 217...	6.340	23558		
Codeine	300.2 -> 215...	9/25/2017 3:52 PM	5.265	54782		208.35	300.2 -> 165...		310.21	Codeine-D6	306.2 -> 218...	5.202	24098		
Cyclobenzaprine	276.2 -> 214...	9/25/2017 3:52 PM	6.552	60		0.29	276.2 -> 231...			Cyclobenzaprine-D3	279.2 -> 215...	6.551	377441		
Dextromethorphan	272.2 -> 171...	9/25/2017 3:52 PM					272.2 -> 147...			Dextromethorphan-D3	275.2 -> 171...	6.289	183344		
Dextrophan	258.2 -> 157...	9/25/2017 3:52 PM	5.597	100		0.97	258.2 -> 133...			Dextrophan-D3	261.2 -> 157...	5.596	162859		
Diazepam	285.1 -> 193...	9/25/2017 3:52 PM					285.1 -> 153...			Diazepam-D5	290.1 -> 198...	6.710	124179		
Dihydrocodeine	302.2 -> 198...	9/25/2017 3:52 PM	5.305	289		1.65	302.2 -> 128...		1.47	Dihydrocodeine-D6	308.2 -> 202...	5.018	822771		
Diphenhydramine	256.2 -> 167...	9/25/2017 3:52 PM	6.189	20573...		363.30	256.2 -> 152...		203.89	Diphenhydramine-D3	259.2 -> 167...	6.189	10283...		
Doxylamine	271.2 -> 182...	9/25/2017 3:52 PM	5.840	329		0.64	271.2 -> 167...			Doxylamine-D5	276.2 -> 187...	5.838	824054		
EDDP	279.2 -> 235...	9/25/2017 3:52 PM	6.287	70		0.44	279.2 -> 250...			EDDP-D3	282.2 -> 235...	6.205	68414		
Fentanyl	337.2 -> 105...	9/25/2017 3:52 PM	6.479	174		1.01	337.2 -> 188...			Fentanyl-D5	342.3 -> 105...	6.418	10247...		
Fluoxetine	310.1 -> 44.3	9/25/2017 3:52 PM	6.281	468		1.45	310.1 -> 148...		0.40	Oxycodone-D6	322.2 -> 304...	5.200	171736		
Hydrocodone	300.2 -> 198...	9/25/2017 3:52 PM	5.265	32545		212.12	300.2 -> 128...		6421...	Hydrocodone-D6	306.2 -> 202...	5.425	128807		
Hydromorphone	286.2 -> 184...	9/25/2017 3:52 PM	4.518	29395		129.48	286.2 -> 157...		121.79	Hydromorphone-D6	292.2 -> 185...	4.758	43267		
Ketamine	238.1 -> 125...	9/25/2017 3:52 PM	5.517	294		17.74	238.1 -> 220...		0.32	Ketamine-D4	242.1 -> 129...	5.986	267599		
Meperbamate	219.1 -> 158...	9/25/2017 3:52 PM	5.886	201		0.98	219.1 -> 97.1		0.86	Meperbamate-D7	226.2 -> 165...	5.661	58008		
Methadone	310.2 -> 265...	9/25/2017 3:52 PM	6.464	534		0.51	310.2 -> 105...			Methadone-D9	319.3 -> 268...	6.523	865469		
Methamphetamine	150.1 -> 91.1	9/25/2017 3:52 PM	5.194	33749		2.75	150.1 -> 119...			Methamphetamine-D11	161.2 -> 97.1	5.112	186013		
Morphine	286.2 -> 201...	9/25/2017 3:52 PM	4.518	58341		400.84	286.2 -> 165...		635.38	Morphine-D6	292.2 -> 152...	4.457	2020		
Naloxone	328.2 -> 309...	9/25/2017 3:52 PM	5.463	391		92.63	328.2 -> 211...		5.85	Naloxone-D5	333.2 -> 315...	5.035	87		
Naltrexol	344.2 -> 326...	9/25/2017 3:52 PM	5.319	4351		64.78	344.2 -> 308...			Naltrexol-D3	347.2 -> 329...	5.136	207962		
Naltrexone	342.2 -> 324...	9/25/2017 3:52 PM	5.360	109		0.91	342.2 -> 55.3		0.97	Naltrexone-D3	345.2 -> 327...	5.298	156693		
Norbuprenorphine	414.3 -> 101...	9/25/2017 3:52 PM					414.3 -> 57.3			Norbuprenorphine-D3	417.3 -> 101...	6.009	26467		
Nordiazepam	271.1 -> 140...	9/25/2017 3:52 PM	6.473	100		1.72	271.1 -> 208...		0.56	Nordiazepam-D5	276.1 -> 140...	6.573	58342		
Norfentanyl	233.2 -> 84.2	9/25/2017 3:52 PM					233.2 -> 55.3			Norfentanyl-D5	238.2 -> 84.2	5.476	443771		
Norhydrocodone	286.2 -> 199...	9/25/2017 3:52 PM					286.2 -> 171...			Norhydrocodone-D3	289.2 -> 202...	5.123	36997		
Noroxycodone	302.1 -> 284...	9/25/2017 3:52 PM	5.040	520		1.31	302.1 -> 186...		0.34	Noroxycodone-D3	305.2 -> 287...	5.039	84208		
O-desmethyl-trama...	250.2 -> 58.3	9/25/2017 3:52 PM					250.2 -> 42.3			O-desmethyl-tramadol-...	256.2 -> 64.3	5.047	595043		
Oxazepam	287.1 -> 240...	9/25/2017 3:52 PM	6.305	44		0.27	287.1 -> 268...			Oxazepam-D5	292.1 -> 246...	6.386	82693		
Oxycodone	316.2 -> 298...	9/25/2017 3:52 PM	4.956	221		1.59	316.2 -> 241...		0.65	Oxycodone-D6	322.2 -> 304...	5.200	171736		
Oxymorphone	302.1 -> 284...	9/25/2017 3:52 PM	4.555	101		0.47	302.1 -> 227...		0.51	Oxymorphone-D3	305.2 -> 287...	4.453	132256		
Phentermine	150.1 -> 65.2	9/25/2017 3:52 PM	5.174	6153		0.70	150.1 -> 133...			Phentermine-D5	155.2 -> 96.2	5.255	288153		
Promethazine	285.1 -> 86.2	9/25/2017 3:52 PM	6.590	122		1.03	285.1 -> 71.3		1.06	Promethazine-D3	288.2 -> 89.2	6.610	15210...		
Quetiapine	384.2 -> 253...	9/25/2017 3:52 PM	6.498	29		0.26	384.2 -> 221...			Quetiapine-D8	392.2 -> 226...	6.659	241207		
Seitaline	306.1 -> 158...	9/25/2017 3:52 PM	6.870	26		0.63	306.1 -> 275...			Seitaline-D3	309.1 -> 275...	6.748	243775		

Compound Method		p1 external control		p1 external control Results			Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.	
Temazepam	301.1 -> 255...	9/25/2017 3:52 PM	6.120	160		0.50	301.1 -> 283...			Temazepam-D5	306.1 -> 260...	6.527	284502	
Tramadol	264.2 -> 58.3	9/25/2017 3:52 PM	5.616	4876		1.39	264.2 -> 43.3			Tramadol-13C-D3	268.2 -> 58.3	5.595	810085	
Trazodone	372.2 -> 176...	9/25/2017 3:52 PM	6.863	974		1.42	372.2 -> 148...		1.51	Trazodone-D6	378.2 -> 182...	6.822	820036	
Venlafaxine	278.2 -> 58.3	9/25/2017 3:52 PM					278.2 -> 260...			Venlafaxine-D6	284.2 -> 64.3	5.939	783763	
Zolpidem	308.2 -> 235...	9/25/2017 3:52 PM	6.607	985		3.59	308.2 -> 263...		2.00	Zolpidem-D6	314.2 -> 235...	6.402	794346	

Compound Method			p2 cal 1-1b			p2 cal 1-1b Results			Qualifier 1 M...			Qualifier 1 R...			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.				
7-aminoflunitrazepam	284.1 -> 135...	9/25/2017 3:22...	5.783	35404		151.34	284.1 -> 93.2		112.45	7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	171646							
alpha-hydroxymidazolam...	342.1 -> 324...	9/25/2017 3:22...	6.488	55494		173.79	342.1 -> 203...		128.11	alpha-hydroxymidazolam...	346.1 -> 328...	6.468	250993							
Amiripryline	278.2 -> 91.2	9/25/2017 3:22...	6.539	49472		Infinity	278.2 -> 105...		Infinity	Amiripryline-D3	281.2 -> 91.2	6.659	394032							
Amoxapine	314.1 -> 271...	9/25/2017 3:22...	6.614	53704		Infinity	314.1 -> 193...		66.73	Amiripryline-D3	281.2 -> 91.2	6.659	394032							
Benzylecgonine	290.1 -> 168...	9/25/2017 3:22...	5.393	12851		162.01	290.1 -> 105...		Infinity	Benzylecgonine-D8	298.2 -> 171...	5.371	4359							
Carbamazepine	237.1 -> 193...	9/25/2017 3:22...	6.178	22565		5841.64	237.1 -> 194...		2065.81	Carbamazepine-13C6	243.1 -> 200...	6.157	883582							
Chlordiazepoxide	300.1 -> 227...	9/25/2017 3:22...	6.616	26349		58.88	300.1 -> 282...		Infinity	Chlordiazepoxide-D5	305.1 -> 286...	6.595	182358							
Clomipramine	315.2 -> 86.2	9/25/2017 3:22...	6.958	314171		14.10	315.2 -> 58.3		279.88	Clomipramine-D3	318.2 -> 89.2	6.938	14909...							
Cocaine	304.2 -> 182...	9/25/2017 3:22...	5.821	119194		Infinity	304.2 -> 105...		21.87	Cocaine-D3	307.2 -> 185...	5.799	484010							
Desipramine	267.2 -> 72.3	9/25/2017 3:22...	6.500	233937		Infinity	267.2 -> 44.3		Infinity	Desipramine-D3	270.2 -> 75.3	6.520	10912...							
Doxepin	280.2 -> 107...	9/25/2017 3:22...	6.376	106608		92.66	280.2 -> 77.2		Infinity	Doxepin-D3	283.2 -> 107...	6.355	477898							
Estazolam	295.1 -> 267...	9/25/2017 3:22...	6.414	39833		221.45	295.1 -> 205...		135.31	Estazolam-D5	300.1 -> 272...	6.412	186251							
Flunitrazepam	314.1 -> 268...	9/25/2017 3:22...	6.451	40395		37.11	314.1 -> 239...		19.90	Flunitrazepam-D7	321.1 -> 245...	6.430	7475							
Flurazepam	388.2 -> 315...	9/25/2017 3:22...	6.486	134749		Infinity	388.2 -> 317...		4563.48	Zopiclone-D4	393.1 -> 244...	6.404	104012							
Imipramine	281.2 -> 86.2	9/25/2017 3:22...	6.598	316154		Infinity	281.2 -> 58.3		556.69	Imipramine-D3	284.2 -> 61.3	6.597	864821							
Levamisole	205.1 -> 91.2	9/25/2017 3:22...	5.386	43048		Infinity	205.1 -> 178...		Infinity	Cocaine-D3	307.2 -> 185...	5.799	484010							
Maprotiline	278.2 -> 91.2	9/25/2017 3:22...	6.212	111882		60.45	278.2 -> 117...		Infinity	Meperidine-D4	252.2 -> 224...	5.850	212657							
MDA	180.1 -> 163...	9/25/2017 3:22...	5.145	40110		212.94	180.1 -> 105...		272.02	MDA-D5	185.1 -> 168...	5.124	175698							
MDEA	208.1 -> 163...	9/25/2017 3:22...	5.426	71023		Infinity	208.1 -> 105...		Infinity	MDEA-D6	214.2 -> 166...	5.426	349260							
MDMA	194.1 -> 163...	9/25/2017 3:22...	5.285	70628		29.74	194.1 -> 105...		120.76	MDMA-D6	200.2 -> 166...	5.264	35173							
Meperidine	248.2 -> 220...	9/25/2017 3:22...	5.871	45105		32.11	248.2 -> 174...		25.04	Meperidine-D4	252.2 -> 224...	5.850	212657							
Methylphenidate	234.2 -> 84.2	9/25/2017 3:22...	5.729	205439		Infinity	234.2 -> 56.3		20117...	Meperidine-D4	252.2 -> 224...	5.850	212657							
Metoprolol	268.2 -> 116...	9/25/2017 3:22...	5.601	19033		150.11	268.2 -> 56.3		270.84	Meperidine-D4	252.2 -> 224...	5.850	212657							
Midazolam	326.1 -> 223...	9/25/2017 3:22...	6.632	19787		48.60	326.1 -> 249...		42.67	Midazolam-D4	330.1 -> 295...	6.631	293193							
Mirtazapine	266.2 -> 195...	9/25/2017 3:22...	6.440	152471		221.18	266.2 -> 72.3		Infinity	Midazolam-D4	330.1 -> 295...	6.631	293193							
Mitragynine	399.2 -> 174...	9/25/2017 3:22...	6.465	48240		7514.52	399.2 -> 238...		3402.40	Carbamazepine-13C6	243.1 -> 200...	6.157	883582							
Normeperidine	234.1 -> 42.3	9/25/2017 3:22...	5.771	59112		Infinity	234.1 -> 160...		103.09	Normeperidine-D4	238.2 -> 164...	5.770	170643							
Norpropoxyphene	326.2 -> 44.3	9/25/2017 3:22...	6.368	31031		45.52	326.2 -> 252...		47.61	Norpropoxyphene-D5	331.2 -> 44.3	6.367	114655							
Nortriptyline	264.2 -> 91.2	9/25/2017 3:22...	6.440	315277		616.41	264.2 -> 233...		Infinity	Nortriptyline-D3	267.2 -> 233...	6.560	241232							
Ondansetron	294.2 -> 184...	9/25/2017 3:22...	6.108	80124		238.39	294.2 -> 212...		133.98	Pentazocine-13C3	289.2 -> 72.3	5.844	371973							
Pentazocine	286.2 -> 218...	9/25/2017 3:22...	5.845	85992		51.41	286.2 -> 41.3		144.84	Pentazocine-13C3	289.2 -> 72.3	5.844	371973							
Phenazepam	349.0 -> 206...	9/25/2017 3:22...	6.508	38816		138.97	349.0 -> 183...		405.11	Phenazepam-D4	353.0 -> 183...	6.507	11898							
Phencyclidine	244.2 -> 86.2	9/25/2017 3:22...	6.075	158595		115.05	244.2 -> 91.1		23817...	Phencyclidine-D5	249.2 -> 86.2	6.074	694600							
Phenylethanolamine	253.1 -> 104...	9/25/2017 3:22...	6.074	3181		19.96	253.1 -> 182...		37.66	Phenylethanolamine-D10	263.2 -> 192...	6.074	10107							
Praxepam	325.1 -> 271...	9/25/2017 3:22...	6.977	171367		209.18	325.1 -> 140...		109.56	Praxepam-D5	330.1 -> 276...	6.955	661629							
Primidone	219.1 -> 91.2	9/25/2017 3:22...	5.466	6420		12.81	219.1 -> 162...		25.98	Praxepam-D5	330.1 -> 276...	6.955	661629							
Propoxyphene	340.2 -> 58.3	9/25/2017 3:22...	6.468	208150		61.69	340.2 -> 266...		6116.55	Propoxyphene-D11	351.3 -> 277...	6.426	208865							
Protriptyline	264.2 -> 155...	9/25/2017 3:22...	6.440	495247		Infinity	264.2 -> 161...		Infinity	Nortriptyline-D3	267.2 -> 233...	6.560	241232							
Pseudoephedrine	166.1 -> 148...	9/25/2017 3:22...	4.742	10680...		1264.41	166.1 -> 133...		393.46	Pseudoephedrine-D3	169.1 -> 151...	4.742	461337							
Tapentadol	222.2 -> 107...	9/25/2017 3:22...	5.608	109066		Infinity	222.2 -> 121...		Infinity	Tapentadol-D3	225.2 -> 107...	5.608	479862							
Trimipramine	295.2 -> 100...	9/25/2017 3:22...	6.718	342515		516.49	295.2 -> 58.3		54.90	Trimipramine-D3	298.2 -> 103...	6.698	15975...							
Verapamil	455.3 -> 165...	9/25/2017 3:22...	6.464	148542		872.03	455.3 -> 150...		170.17	Trimipramine-D3	298.2 -> 103...	6.698	15975...							
Zaleplon	306.1 -> 236...	9/25/2017 3:22...	6.269	44407		1793.50	306.1 -> 264...		56.23	Zaleplon-D4	310.2 -> 240...	6.247	160664							
Zopiclone	389.1 -> 244...	9/25/2017 3:22...	6.404	26377		103.95	389.1 -> 216...		75.62	Zopiclone-D4	393.1 -> 244...	6.404	104012							

Compound Method				p2 negative				p2 negative Results				ISTD Method			
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Qualifier 1 M...	MI	S/N	Qualifier...	Name	Transition	RT	Resp.	
7-amino-flunitrazepam	284.1 -> 135...	9/25/2017 3:42 PM					284.1 -> 93.2				7-amino-flunitrazepam-D7	291.2 -> 138...	5.761	163157	
alpha-hydroxymidazolam...	342.1 -> 324...	9/25/2017 3:42 PM					342.1 -> 203...				alpha-hydroxymidazolam-...	346.1 -> 328...	6.468	266548	
Amtripylyne	278.2 -> 91.2	9/25/2017 3:42 PM	6.559	2301		1.51	278.2 -> 105...				Amtripylyne-D3	281.2 -> 91.2	6.659	368622	
Amoxapine	314.1 -> 271...	9/25/2017 3:42 PM					314.1 -> 193...				Amtripylyne-D3	281.2 -> 91.2	6.659	368622	
Benzoylcegonine	290.1 -> 168...	9/25/2017 3:42 PM					290.1 -> 105...				Benzoylcegonine-D8	298.2 -> 171...	5.371	4533	
Carbamazepine	237.1 -> 193...	9/25/2017 3:42 PM					237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.157	829608	
Chlordiazepoxide	300.1 -> 227...	9/25/2017 3:42 PM					300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286...	6.595	182345	
Cloimpramine	315.2 -> 86.2	9/25/2017 3:42 PM					315.2 -> 58.3				Cloimpramine-D3	318.2 -> 89.2	6.938	13891...	
Cocaine	304.2 -> 182...	9/25/2017 3:42 PM					304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.799	481666	
Desipramine	267.2 -> 72.3	9/25/2017 3:42 PM					267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.520	10806...	
Doxepin	280.2 -> 107...	9/25/2017 3:42 PM					280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.355	461791	
Estazolam	295.1 -> 267...	9/25/2017 3:42 PM					295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.412	196841	
Flunitrazepam	314.1 -> 268...	9/25/2017 3:42 PM					314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.430	8485	
Flurazepam	388.2 -> 315...	9/25/2017 3:42 PM					388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.404	135463	
Imipramine	281.2 -> 86.2	9/25/2017 3:42 PM	6.619	2997		2.65	281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.597	830954	
Levamisole	205.1 -> 91.2	9/25/2017 3:42 PM					205.1 -> 178...				Cocaine-D3	307.2 -> 185...	5.799	481666	
Maprotiline	278.2 -> 91.2	9/25/2017 3:42 PM	6.212	2007		0.50	278.2 -> 117...				Meperidine-D4	252.2 -> 224...	5.850	207124	
MDA	180.1 -> 163...	9/25/2017 3:42 PM					180.1 -> 105...				MDA-D5	185.1 -> 168...	5.124	182803	
MDEA	208.1 -> 163...	9/25/2017 3:42 PM					208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.406	340970	
MDMA	194.1 -> 163...	9/25/2017 3:42 PM					194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.264	36128	
Meperidine	248.2 -> 220...	9/25/2017 3:42 PM					248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.850	207124	
Methylphenidate	234.2 -> 84.2	9/25/2017 3:42 PM					234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.850	207124	
Metoprolol	268.2 -> 116...	9/25/2017 3:42 PM					268.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.850	207124	
Midazolam	326.1 -> 223...	9/25/2017 3:42 PM					326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.631	269507	
Mirtazapine	266.2 -> 195...	9/25/2017 3:42 PM					266.2 -> 72.3				Midazolam-D4	330.1 -> 295...	6.631	269507	
Mitragynine	399.2 -> 174...	9/25/2017 3:42 PM					399.2 -> 238...				Carbamazepine-13C6	243.1 -> 200...	6.157	829608	
Normeperidine	234.1 -> 42.3	9/25/2017 3:42 PM					234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.770	162242	
Norpropoxyphene	326.2 -> 44.3	9/25/2017 3:42 PM					326.2 -> 252...				Norpropoxyphene-D5	331.2 -> 44.3	6.347	107835	
Nortriptyline	264.2 -> 91.2	9/25/2017 3:42 PM					264.2 -> 233...				Nortriptyline-D3	267.2 -> 233...	6.560	245902	
Ondansetron	294.2 -> 184...	9/25/2017 3:42 PM					294.2 -> 212...				Pentazocine-13C3	289.2 -> 72.3	5.844	349971	
Pentazocine	286.2 -> 218...	9/25/2017 3:42 PM					286.2 -> 41.3				Pentazocine-13C3	289.2 -> 72.3	5.844	349971	
Phenazepam	349.0 -> 206...	9/25/2017 3:42 PM					349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.507	14449	
Phencyclidine	244.2 -> 86.2	9/25/2017 3:42 PM					244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	6.074	710236	
Phenylethanolamine	253.1 -> 104...	9/25/2017 3:42 PM					253.1 -> 182...				Phenylethanolamine-D10	263.2 -> 192...	6.053	8992	
Praxepam	325.1 -> 271...	9/25/2017 3:42 PM					325.1 -> 140...				Praxepam-D5	330.1 -> 276...	6.955	634568	
Propoxyphene	219.1 -> 91.2	9/25/2017 3:42 PM					219.1 -> 162...				Praxepam-D5	330.1 -> 276...	6.955	634568	
Protriptyline	264.2 -> 155...	9/25/2017 3:42 PM					264.2 -> 161...				Propoxyphene-D11	351.3 -> 277...	6.426	200553	
Pseudoephedrine	166.1 -> 148...	9/25/2017 3:42 PM					166.1 -> 133...				Nortriptyline-D3	267.2 -> 233...	6.560	245902	
Tapentadol	222.2 -> 107...	9/25/2017 3:42 PM					222.2 -> 121...				Pseudoephedrine-D3	169.1 -> 151...	4.742	422147	
Trimipramine	295.2 -> 100...	9/25/2017 3:42 PM					295.2 -> 58.3				Tapentadol-D3	225.2 -> 107...	5.608	481170	
Verapamil	455.3 -> 165...	9/25/2017 3:42 PM					455.3 -> 150...				Trimipramine-D3	298.2 -> 103...	6.698	15111...	
Zaleplon	306.1 -> 236...	9/25/2017 3:42 PM					306.1 -> 264...				Trimipramine-D3	298.2 -> 103...	6.698	15111...	
Zopiclone	389.1 -> 244...	9/25/2017 3:42 PM					389.1 -> 216...				Zaleplon-D4	310.2 -> 240...	6.247	165272	
											Zopiclone-D4	393.1 -> 244...	6.404	135463	

Compound Method			p2 external control			p2 external control Results			Qualifier 1 M...			Qualifier 1...			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.			
7-aminoflunitrazepam	284.1 -> 135...	9/25/2017 4:01 PM					284.1 -> 93.2			7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	166026							
alpha-hydroxymidazolam...	342.1 -> 324...	9/25/2017 4:01 PM					342.1 -> 203...			alpha-hydroxymidazolam...	346.1 -> 328...	6.468	255358							
Amitriptyline	278.2 -> 91.2	9/25/2017 4:01 PM	6.660	12575...		76.90	278.2 -> 105...		316.56	Amitriptyline-D3	281.2 -> 91.2	6.659	378181							
Amoxapine	314.1 -> 271...	9/25/2017 4:01 PM					314.1 -> 193...			Amitriptyline-D3	281.2 -> 91.2	6.659	378181							
Benzoylcegonine	290.1 -> 168...	9/25/2017 4:01 PM					290.1 -> 105...			Benzoylcegonine-D8	298.2 -> 171...	5.371	3786							
Carbamazepine	237.1 -> 193...	9/25/2017 4:01 PM					237.1 -> 194...			Carbamazepine-13C6	243.1 -> 200...	6.157	805448							
Chlordiazepoxide	300.1 -> 227...	9/25/2017 4:01 PM					300.1 -> 282...			Chlordiazepoxide-D5	305.1 -> 286...	6.595	172687							
Clomipramine	315.2 -> 86.2	9/25/2017 4:01 PM					315.2 -> 58.3			Clomipramine-D3	318.2 -> 89.2	6.938	14008...							
Cocaine	304.2 -> 182...	9/25/2017 4:01 PM					304.2 -> 105...			Cocaine-D3	307.2 -> 185...	5.799	433595							
Desipramine	267.2 -> 72.3	9/25/2017 4:01 PM					267.2 -> 44.3			Desipramine-D3	270.2 -> 75.3	6.520	10362...							
Doxepin	280.2 -> 107...	9/25/2017 4:01 PM					280.2 -> 44.3			Doxepin-D3	283.2 -> 107...	6.355	468122							
Estazolam	295.1 -> 267...	9/25/2017 4:01 PM					295.1 -> 205...			Estazolam-D5	300.1 -> 272...	6.412	175167							
Flunitrazepam	314.1 -> 268...	9/25/2017 4:01 PM					314.1 -> 239...			Flunitrazepam-D7	321.1 -> 245...	6.430	8576							
Flurazepam	388.2 -> 315...	9/25/2017 4:01 PM					388.2 -> 317...			Zopiclone-D4	393.1 -> 244...	6.404	94862							
Imipramine	281.2 -> 86.2	9/25/2017 4:01 PM	6.598	2276		6.53	281.2 -> 58.3			Imipramine-D3	284.2 -> 61.3	6.597	821525							
Levamisole	205.1 -> 91.2	9/25/2017 4:01 PM					205.1 -> 178...			Cocaine-D3	307.2 -> 185...	5.799	433595							
Maprotiline	278.2 -> 91.2	9/25/2017 4:01 PM					278.2 -> 117...			Meperidine-D4	252.2 -> 224...	5.850	205695							
MDA	180.1 -> 163...	9/25/2017 4:01 PM					180.1 -> 105...			MDA-D5	185.1 -> 168...	5.124	183683							
MDEA	208.1 -> 163...	9/25/2017 4:01 PM					208.1 -> 105...			MDEA-D6	214.2 -> 166...	5.406	324268							
MDMA	194.1 -> 163...	9/25/2017 4:01 PM					194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.244	35211							
Meperidine	248.2 -> 220...	9/25/2017 4:01 PM					248.2 -> 174...			Meperidine-D4	252.2 -> 224...	5.850	205695							
Methylphenidate	234.2 -> 84.2	9/25/2017 4:01 PM					234.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.850	205695							
Metoprolol	268.2 -> 116...	9/25/2017 4:01 PM					268.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.850	205695							
Midazolam	326.1 -> 223...	9/25/2017 4:01 PM					326.1 -> 249...			Midazolam-D4	330.1 -> 295...	6.631	275282							
Mirtazapine	266.2 -> 195...	9/25/2017 4:01 PM	6.440	13920...		680.54	266.2 -> 72.3		742.60	Midazolam-D4	330.1 -> 295...	6.631	275282							
Mirtazapine	399.2 -> 174...	9/25/2017 4:01 PM					399.2 -> 238...			Carbamazepine-13C6	243.1 -> 200...	6.157	805448							
Normeperidine	234.1 -> 42.3	9/25/2017 4:01 PM					234.1 -> 160...			Normeperidine-D4	238.2 -> 164...	5.770	170605							
Norpropoxyphene	326.2 -> 44.3	9/25/2017 4:01 PM					326.2 -> 252...			Norpropoxyphene-D5	331.2 -> 44.3	6.367	92889							
Nortriptyline	264.2 -> 91.2	9/25/2017 4:01 PM	6.562	2839		3.45	264.2 -> 233...			Nortriptyline-D3	267.2 -> 233...	6.560	232637							
Ondansetron	294.2 -> 184...	9/25/2017 4:01 PM					294.2 -> 212...			Pentazocine-13C3	289.2 -> 72.3	5.844	348502							
Pentazocine	286.2 -> 218...	9/25/2017 4:01 PM					286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.844	348502							
Phenazepam	349.0 -> 206...	9/25/2017 4:01 PM					349.0 -> 183...			Phenazepam-D4	353.0 -> 183...	6.507	14274							
Phencyclidine	244.2 -> 86.2	9/25/2017 4:01 PM					244.2 -> 91.1			Phencyclidine-D5	249.2 -> 86.2	6.074	617562							
Phenyloln	253.1 -> 104...	9/25/2017 4:01 PM					253.1 -> 182...			Phenyloln-D10	263.2 -> 192...	6.074	8349							
Praxepam	325.1 -> 271...	9/25/2017 4:01 PM					325.1 -> 140...			Praxepam-D5	330.1 -> 276...	6.955	603070							
Pirritidone	219.1 -> 91.2	9/25/2017 4:01 PM					219.1 -> 162...			Praxepam-D5	330.1 -> 276...	6.955	603070							
Propoxyphene	340.2 -> 58.3	9/25/2017 4:01 PM					340.2 -> 266...			Propoxyphene-D11	351.3 -> 277...	6.426	200713							
Protriptyline	264.2 -> 155...	9/25/2017 4:01 PM					264.2 -> 161...			Nortriptyline-D3	267.2 -> 233...	6.560	232637							
Pseudoephedrine	166.1 -> 148...	9/25/2017 4:01 PM					166.1 -> 133...			Pseudoephedrine-D3	169.1 -> 151...	4.742	383122							
Tapentadol	222.2 -> 107...	9/25/2017 4:01 PM					222.2 -> 121...			Tapentadol-D3	225.2 -> 107...	5.608	497095							
Trimipramine	295.2 -> 100...	9/25/2017 4:01 PM					295.2 -> 58.3			Trimipramine-D3	298.2 -> 103...	6.698	15333...							
Verapamil	455.3 -> 165...	9/25/2017 4:01 PM					455.3 -> 150...			Trimipramine-D3	298.2 -> 103...	6.698	15333...							
Zaleplon	306.1 -> 236...	9/25/2017 4:01 PM					306.1 -> 264...			Zaleplon-D4	310.2 -> 240...	6.247	164723							
Zopiclone	389.1 -> 244...	9/25/2017 4:01 PM					389.1 -> 216...			Zopiclone-D4	393.1 -> 244...	6.404	94862							

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

Extraction Date: 9-25-17 Analyst: Anne Nord

PRE-ANALYTIC

Plate Lot# _____ Custom THC plate: 0499102 Plate Exp: 1/29/2018

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: 92517 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: 92517 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

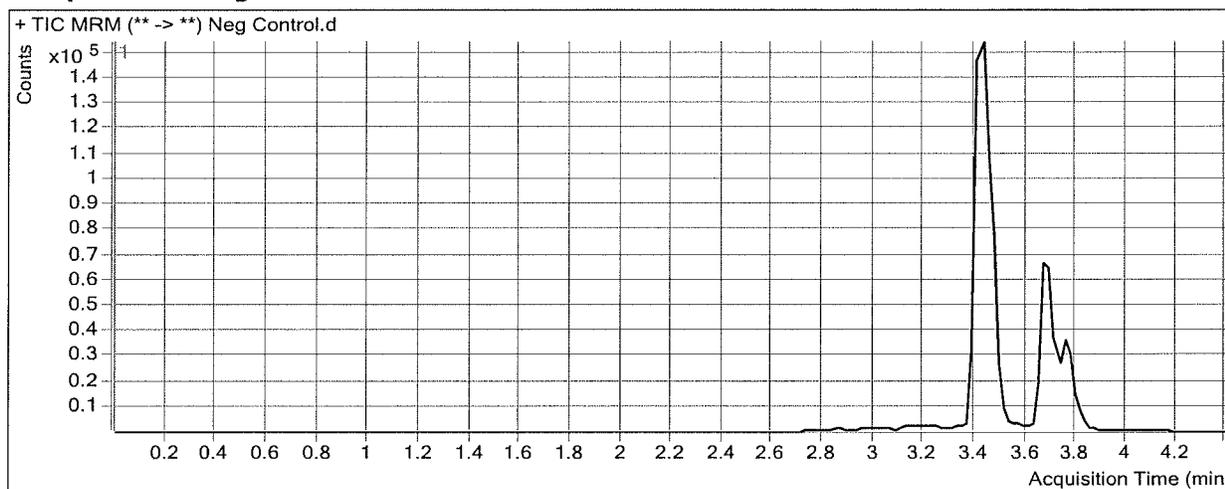
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 11:42 **Data File** Neg Control.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-a2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen negative blood lot 17J20718

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	1229	554096	0.0022	0.0000

ISP FORENSICS - Cd'A

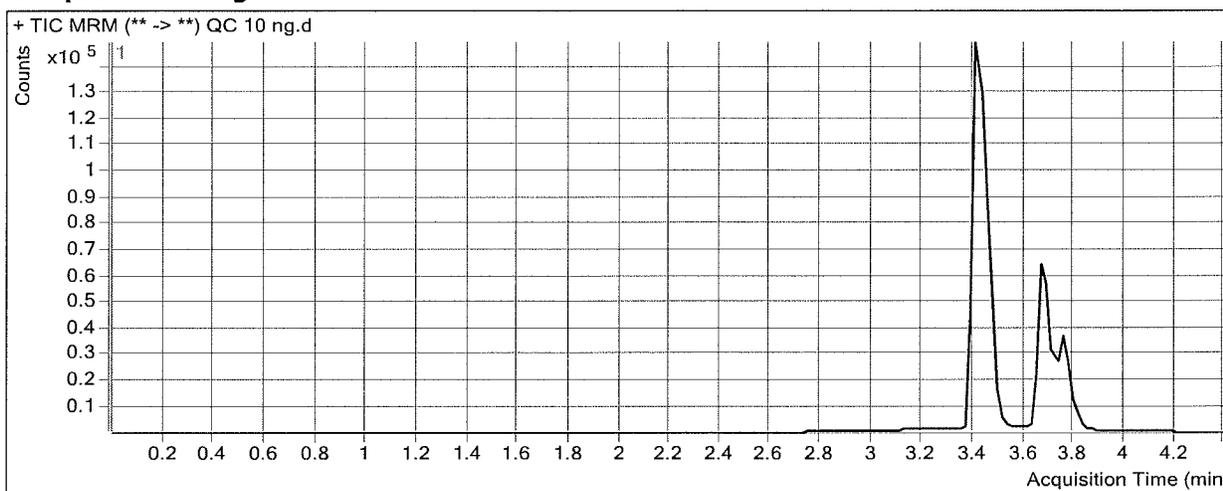
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 12:02 **Data File** QC 10 ng.d
Sample Type QC **Sample Name** QC 10 ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.412	37788	413734	0.0913	9.9273
THC-COOH	3.426	18466	91989	0.2007	10.7817
THC	3.760	3881	34862	0.1113	10.5864

ISP Forensics Calibration Curve Report

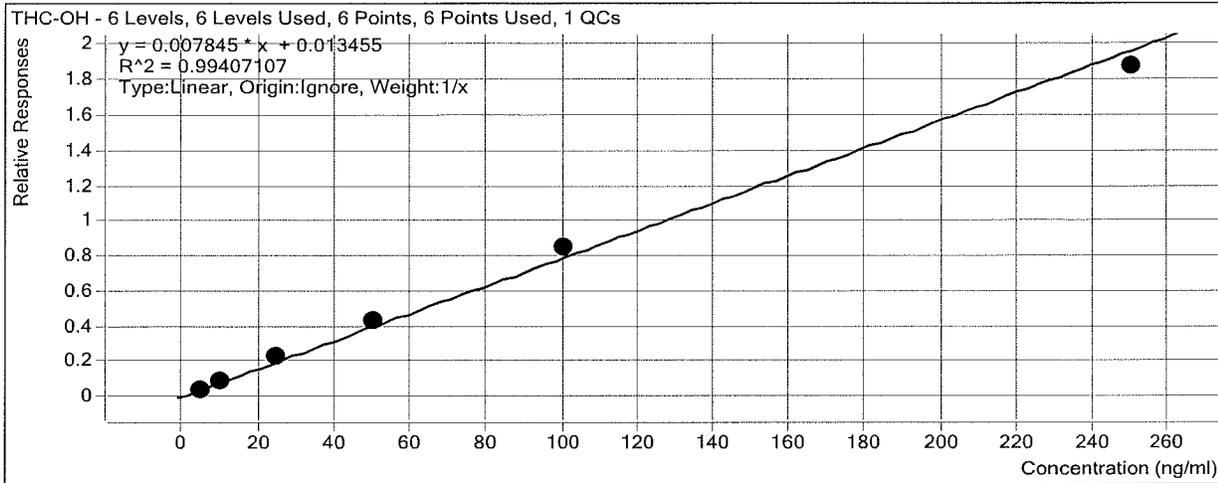
Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin

Last Calib Update 9/27/2017 10:02 AM

Analyst Name ISP TOX

Target Compound *THC-OH*

Internal Standard *THC-OH-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.2	83.2
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.5	94.6
QC 10 ng	3	<input checked="" type="checkbox"/>	10	9.9	99.3
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	27.9	111.6
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	54.4	108.7
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	107.0	107.0
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	237.1	94.8

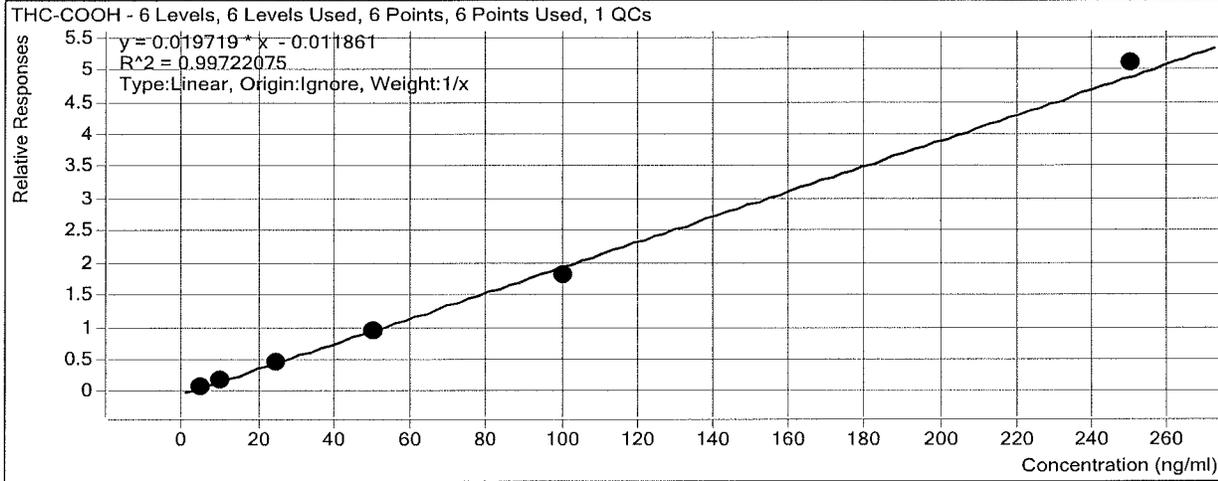
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin

Last Calib Update 9/27/2017 10:02 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.4	108.9
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.0	100.2
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.8	107.8
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.6	98.3
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	48.0	96.0
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	92.9	92.9
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	259.0	103.6

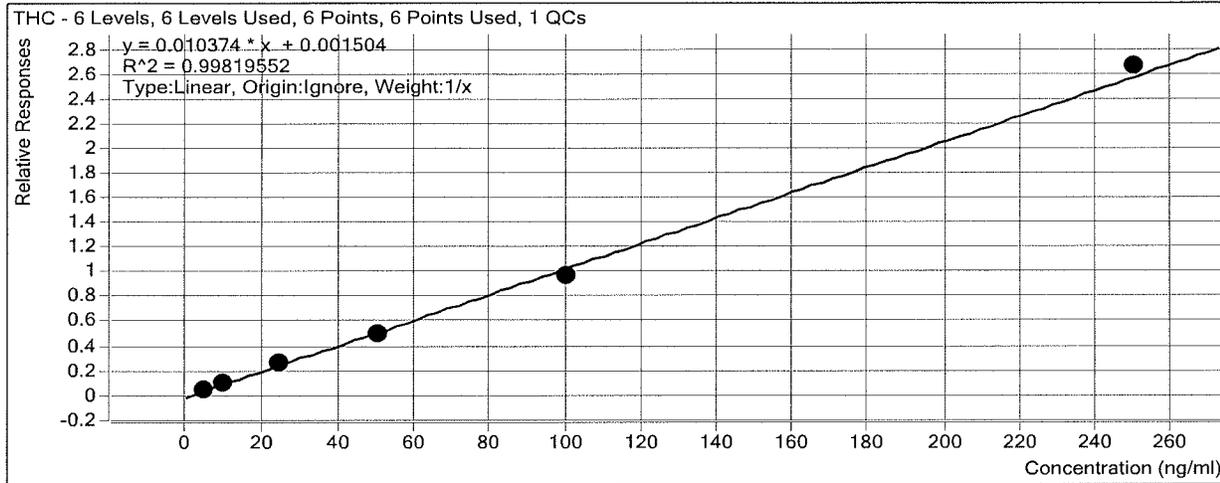
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin

Last Calib Update 9/27/2017 10:02 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.1	102.1
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.4	103.7
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.6	105.9
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.0	100.1
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	48.7	97.4
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	93.8	93.8
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	256.9	102.8

ISP FORENSICS - Cd'A

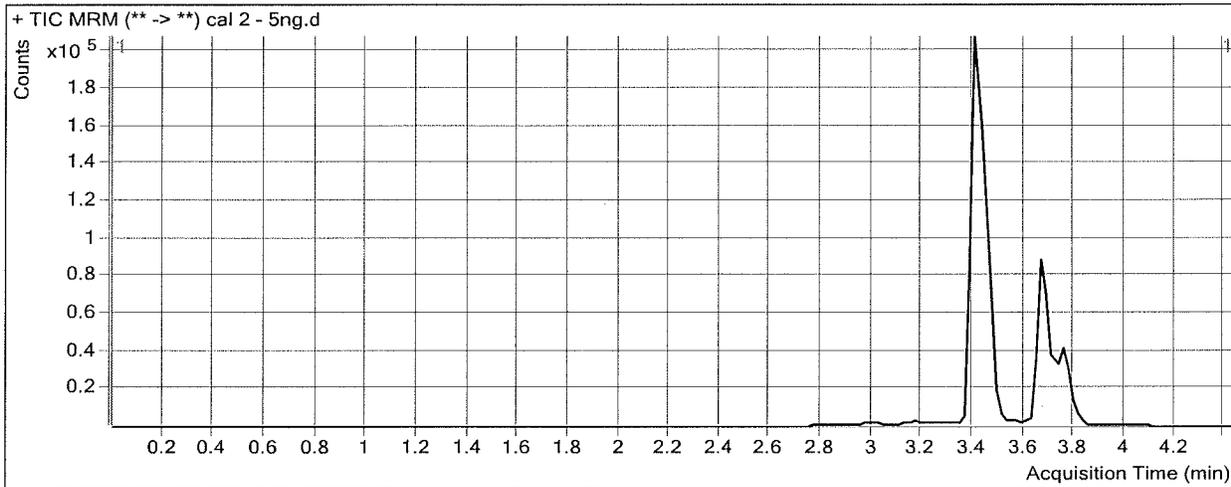
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 11:09 **Data File** cal 2 - 5ng.d
Sample Type Calibration **Sample Name** cal 2 - 5ng
Dilution 1 **Acq Method** Screen THC 8-2017.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	3.412	28485	618045	0.0461	4.1599
THC-COOH	3.426	11574	121146	0.0955	5.4465
THC	3.760	1554	28534	0.0545	5.1049

ISP FORENSICS - Cd'A

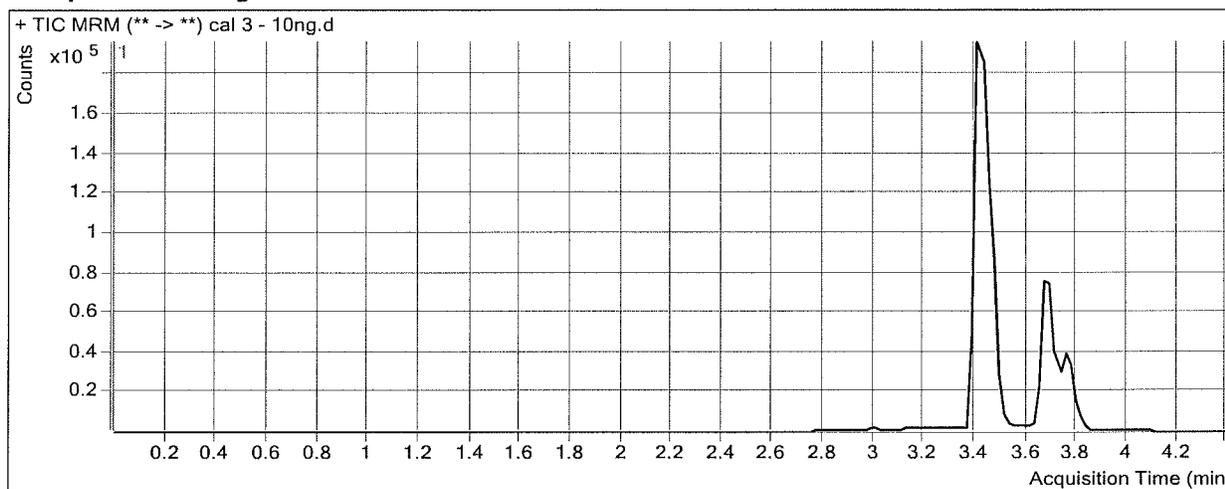
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 11:16 **Data File** cal 3 - 10ng.d
Sample Type Calibration **Sample Name** cal 3 - 10ng
Dilution 1 **Acq Method** Screen THC 8-2017.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	3.412	53126	605961	0.0877	9.4604
THC-COOH	3.426	20915	112561	0.1858	10.0246
THC	3.760	3293	30173	0.1091	10.3741

ISP FORENSICS - Cd'A

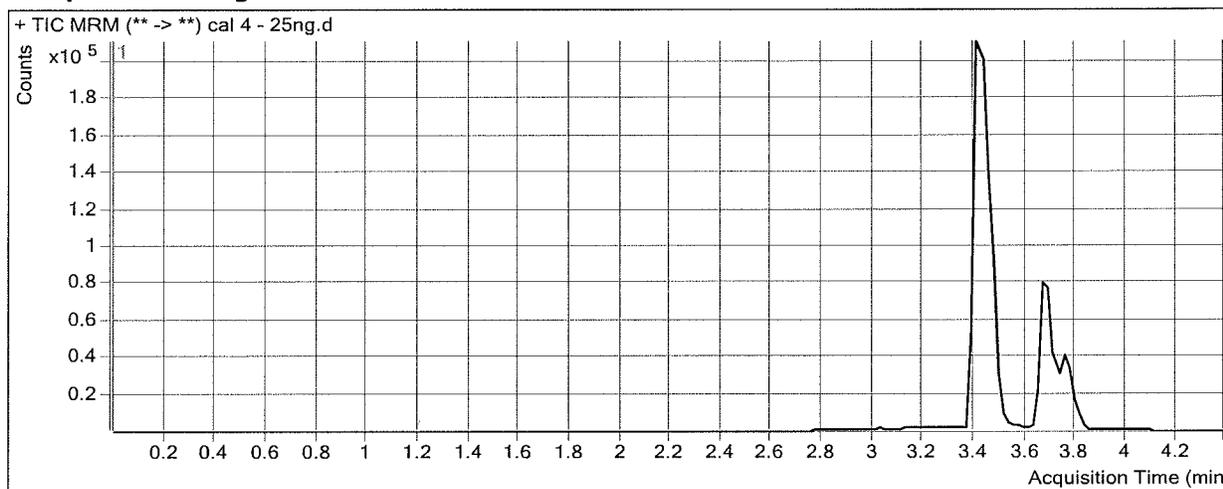
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 11:23 **Data File** cal 4 - 25ng.d
Sample Type Calibration **Sample Name** cal 4 - 25ng
Dilution 1 **Acq Method** Screen THC 8-2017.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	3.412	128854	554513	0.2324	27.9054
THC-COOH	3.426	48233	102056	0.4726	24.5690
THC	3.760	8218	31466	0.2612	25.0316

ISP FORENSICS - Cd'A

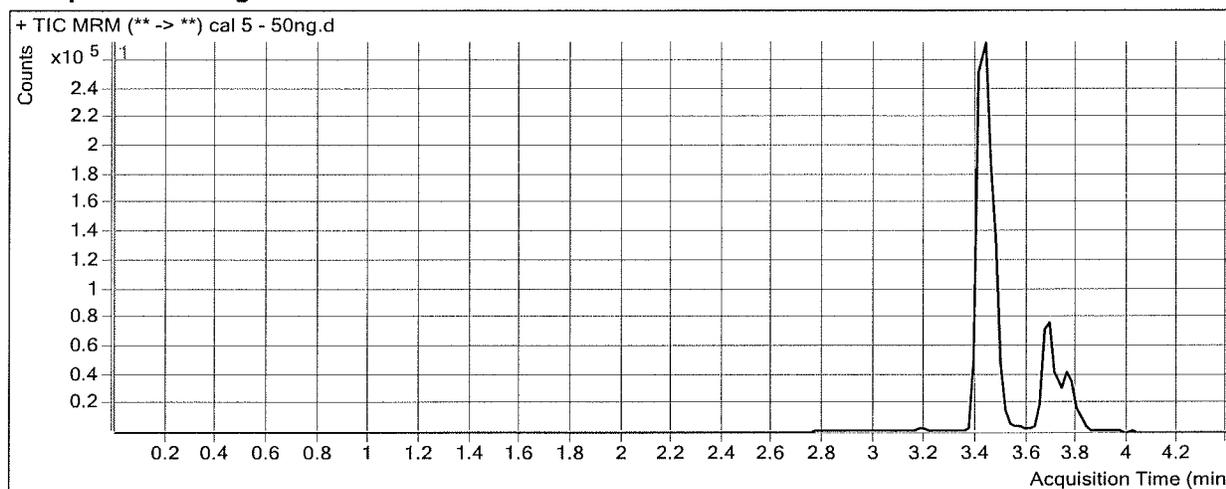
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 11:29 **Data File** cal 5 - 50ng.d
Sample Type Calibration **Sample Name** cal 5 - 50ng
Dilution 1 **Acq Method** Screen THC 8-2017.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	3.433	260038	591208	0.4398	54.3511
THC-COOH	3.426	98810	105682	0.9350	48.0168
THC	3.760	14652	28910	0.5068	48.7090

ISP FORENSICS - Cd'A

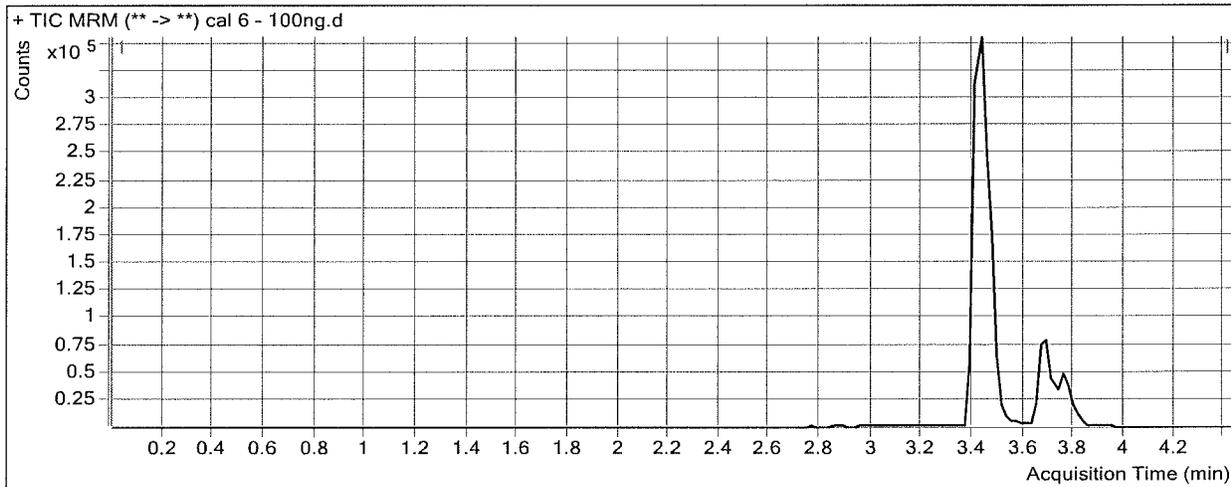
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 11:36 **Data File** cal 6 - 100ng.d
Sample Type Calibration **Sample Name** cal 6 - 100ng
Dilution 1 **Acq Method** Screen THC 8-2017.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	483571	566768	0.8532	107.0425
THC-COOH	3.426	179954	98879	1.8199	92.8964
THC	3.760	30311	31088	0.9750	93.8417

ISP FORENSICS - Cd'A

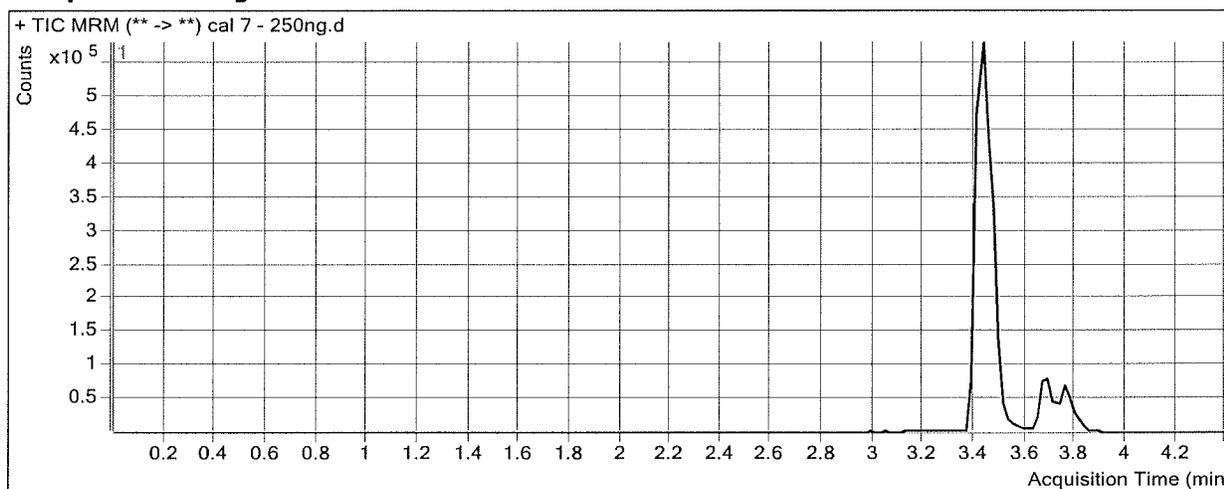
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\92517 blood screen AM 25-26\QuantResults\92517 cann screen.batch.bin
Analysis Time 9/27/2017 10:02 AM **Analyst Name** ISP Tox
Report Time 9/27/2017 10:12 AM **Reporter Name** ISP Tox
Last Calib Update 9/27/2017 10:02 AM **Batch State** Processed

Analysis Info

Acq Time 2017-09-25 11:49 **Data File** cal 7 - 250ng.d
Sample Type Calibration **Sample Name** cal 7 - 250ng
Dilution 1 **Acq Method** Screen THC 8-2017.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	950583	507420	1.8734	237.0807
THC-COOH	3.426	440067	86351	5.0962	259.0468
THC	3.760	85251	31966	2.6670	256.9388