

Worklist: 2664

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2018-1575	1	123573	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1596	1	123794	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1610	1	123913	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1619	1	124111	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1642	1	124277	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1647	1	124295	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1672	1	124626	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1692	1	124771	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1693	1	124777	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1709	1	124827	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1715	2	124922	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1723	1	124979	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
C2018-1724	1	124982	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3639	1	125441	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3641	1	125444	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3641	2	125442	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3641	3	125443	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3659	1	125445	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3702	1	124231	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3766	2	125449	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3822	5	125452	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3849	2	125450	AM 25/AM 26 Blood MultiDrug/THC Screen by L	
M2018-3871	2	125454	AM 25/AM 26 Blood MultiDrug/THC Screen by L	

Worklist: 2664

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-4015	3	123887	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	
P2018-2159	1	125446	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	
P2018-2160	1	125447	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	
P2018-2161	1	125448	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	
P2018-2174	1	125451	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	
P2018-2218	1	125455	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	
P2018-2262	1	123803	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	
P2018-2264	1	123846	AM 25/AM 26 Blood MultiDrug/THC Screen by LC	

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

Extraction Date: 8/27th 2018
Plate lot#: 0515207

Analyst: B Wylie
Plate Expiration:

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

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

Blank Blood Lot: 18G207D7

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

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: Data Path Name: 082718 AU25-24

Analytic:

1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
4. Pipette **250µL 00.5M ammonium hydroxide** 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. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
8. Wait 5 minutes.
9. Add **900uL ethyl acetate**.
10. Wait 5 minutes.
11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
12. Add **900uL ethyl acetate**.
13. Wait 5 minutes.
14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
16. Reconstitute in **100µL 100% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

1. Open quantitation software and create a new quantitation batch.
Batch Name: 082718 AU25-24 Worklist path: 08272018 mds p1
08272018 mds p2
2. Make necessary changes to integration limits
3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/3 the response of administrative control.
4. Did all QCs pass for each analyte? Y N
5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

Toxicology AM method 25 external prep information

working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline
Stock solution 1mg/ml 100 ul each in 9600ul meOH
Ppd 4/23/18 Exp: 4/23/19 lot 42318 by Amn

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Hydrocodone	FE09091505	9/1/2020
nortriptyline	FN06191503	8/1/2020
sertraline	FN01081501	3/1/2020

AM 25 control 100 ul working solution (42318) in 9900 ul neg blood
ppd 04/23/18 exp 4/23/19 lot 42318

neg blood lot 17J120718

by Amn

Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone



Compound Method	p1 cal 1-2a	p1 cal 1-2a Results	Qualifier 1 M...	Qualifier 1 Result...	ISTD Method	ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	RT	Resp.
6-MAM	328.2 -> 165...	8/28/2018 1:29 A...	5.278	798	276.39	328.2 -> 211...	5.278	34353
7-aminoclonazepam	286.1 -> 121...	8/28/2018 1:29 A...	5.591	26909	222.62	286.1 -> 222...	5.590	121977
Benzoylcegonine	290.1 -> 168...	8/28/2018 1:29 A...	5.406	10222	39.90	290.1 -> 105...	5.385	3737
Metoprolol	268.2 -> 116...	8/28/2018 1:29 A...	5.696	15788	2230.00	268.2 -> 56.3	5.200	51983
a-hydroxyalprazolam	325.1 -> 297...	8/28/2018 1:29 A...	6.339	6276	73.57	325.1 -> 215...	6.338	34772
alpha-PVP	232.2 -> 91.0	8/28/2018 1:29 A...	5.762	85966	665.98	232.2 -> 77.1	5.740	407810
Alprazolam	309.1 -> 281...	8/28/2018 1:29 A...	6.424	44913	191.29	309.1 -> 205...	6.402	170199
Amphetamine	136.1 -> 91.1	8/28/2018 1:29 A...	5.154	102610	Infinity	136.1 -> 119...	5.113	137358
Cocaine	304.2 -> 182...	8/28/2018 1:29 A...	5.752	91217	140.66	304.2 -> 105...	5.751	412726
Bupropion	240.1 -> 184...	8/28/2018 1:29 A...	5.945	88878	35.27	240.1 -> 131...	5.904	414293
Carisoprodol	261.2 -> 176...	8/28/2018 1:29 A...	6.107	51843	367.79	261.2 -> 55.3	6.084	335915
Chllopram	325.2 -> 109...	8/28/2018 1:29 A...	6.196	143201	94.66	325.2 -> 262...	6.195	684411
Clonazepam	316.1 -> 269...	8/28/2018 1:29 A...	6.299	17960	115.28	316.1 -> 213...	6.299	26808
Codeine	300.2 -> 215...	8/28/2018 1:29 A...	5.222	4603	845.39	300.2 -> 165...	5.179	25682
Cyclobenzaprine	276.2 -> 214...	8/28/2018 1:29 A...	6.491	80125	11.72	276.2 -> 231...	6.490	380001
Dextromethorphan	272.2 -> 171...	8/28/2018 1:29 A...	6.227	36197	116.66	272.2 -> 147...	6.227	186430
Dextroproprian	258.2 -> 157...	8/28/2018 1:29 A...	5.637	27368	44.85	258.2 -> 133...	5.657	156856
Diazepam	285.1 -> 193...	8/28/2018 1:29 A...	6.631	26175	69.20	285.1 -> 153...	6.630	130233
Dihydrocodeine	302.2 -> 198...	8/28/2018 1:29 A...	5.099	13070	27.16	302.2 -> 128...	5.077	65396
Diphenhydramine	256.2 -> 167...	8/28/2018 1:29 A...	6.128	196892	12964...	256.2 -> 152...	6.127	1054765
Doxylamine	271.2 -> 182...	8/28/2018 1:29 A...	5.778	153344	23129...	271.2 -> 157...	5.756	793788
EDDP	279.2 -> 235...	8/28/2018 1:29 A...	6.102	151455	408.07	279.2 -> 250...	6.102	67149
Fentanyl	337.2 -> 105...	8/28/2018 1:29 A...	6.317	17161	Infinity	337.2 -> 188...	6.317	904351
Fluoxetine	310.1 -> 44.3	8/28/2018 1:29 A...	6.321	204966	3645.71	310.1 -> 148...	6.319	993115
Hydrocodone	300.2 -> 198...	8/28/2018 1:29 A...	5.425	23551	51.28	300.2 -> 128...	5.382	126042
Hydromorphone	286.2 -> 184...	8/28/2018 1:29 A...	4.881	14583	120.22	286.2 -> 157...	4.879	50403
Ketamine	268.1 -> 125...	8/28/2018 1:29 A...	5.803	65731	127.78	268.1 -> 220...	5.781	284500
Mirtazapine	399.2 -> 195...	8/28/2018 1:29 A...	6.228	133839	232.42	399.2 -> 72.3	5.573	911487
Mirtazapine	399.2 -> 238...	8/28/2018 1:29 A...	6.314	19785	3096.26	399.2 -> 174...	5.573	911487
Meprobamate	219.1 -> 158...	8/28/2018 1:29 A...	5.661	22124	245.84	219.1 -> 97.1	5.640	123595
Methadone	310.2 -> 265...	8/28/2018 1:29 A...	6.341	151999	93.88	310.2 -> 105...	6.340	826393
Methamphetamine	150.1 -> 91.1	8/28/2018 1:29 A...	5.335	135379	Infinity	150.1 -> 119...	5.274	251616
Morphine	286.2 -> 201...	8/28/2018 1:29 A...	4.688	2725	Infinity	286.2 -> 165...	4.859	2084
Nortuprenorphine	414.3 -> 101...	8/28/2018 1:29 A...	6.050	5073	388.64	414.3 -> 57.3	6.050	22317
Nordiazepam	271.1 -> 140...	8/28/2018 1:29 A...	6.493	21855	80.64	271.1 -> 208...	6.492	69593
Nortentanyl	233.2 -> 84.2	8/28/2018 1:29 A...	5.476	108815	406.45	233.2 -> 55.3	5.475	558304
Norhydrocodone	286.2 -> 199...	8/28/2018 1:29 A...	5.305	1360	Infinity	286.2 -> 171...	5.265	37421
Noroxycodone	302.1 -> 284...	8/28/2018 1:29 A...	5.201	12845	Infinity	302.1 -> 186...	5.200	51983
O-desmethyl-tramadol	250.2 -> 58.3	8/28/2018 1:29 A...	5.109	155267	458.40	250.2 -> 42.3	5.108	682189
Oxazepam	287.1 -> 240...	8/28/2018 1:29 A...	6.345	35457	71.36	287.1 -> 268...	6.324	152640
Oxycodone	316.2 -> 298...	8/28/2018 1:29 A...	5.259	38492	26.04	316.2 -> 241...	5.218	190768
Oxymorphone	302.1 -> 284...	8/28/2018 1:29 A...	4.714	29935	Infinity	302.1 -> 227...	4.692	164387
Phenemrine	150.1 -> 65.2	8/28/2018 1:29 A...	5.356	58260	Infinity	150.1 -> 133...	5.335	353289
Promethazine	285.1 -> 86.2	8/28/2018 1:29 A...	6.590	249851	Infinity	285.1 -> 71.3	6.549	1490870
Quetiapine	384.2 -> 253...	8/28/2018 1:29 A...	6.539	202722	64.15	384.2 -> 221...	6.498	298881
Seftaline	306.1 -> 158...	8/28/2018 1:29 A...	6.689	36269	Infinity	306.1 -> 275...	6.688	188743
Temazepam	301.1 -> 255...	8/28/2018 1:29 A...	6.467	66849	Infinity	301.1 -> 283...	6.466	363844
Tramadol	264.2 -> 58.3	8/28/2018 1:29 A...	5.595	168715	338.74	264.2 -> 43.3	5.573	911487
Trazodone	372.2 -> 176...	8/28/2018 1:29 A...	6.945	59981	9.41	372.2 -> 148...	6.924	162909

Compound Method		p1 cal 1-2a			p1 cal 1-2a Results			Qualifier 1 M...			Qualifier 1 Resul...			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Area	Name	Transition	RT	Resp.					
Venlafaxine	278.2 -> 58.3	8/28/2018 1:29 A...	5.878	173709	85.34	278.2 -> 260...	33.62	34388	Venlafaxine-D6	284.2 -> 64.3	5.878	855994					
Zolpidem	308.2 -> 235...	8/28/2018 1:29 A...	6.322	158146	70.50	308.2 -> 263...	9128...	55012	Zolpidem-D6	314.2 -> 235...	6.300	884703					

Compound Method			p1 negative		p1 negative Results			Qualifier 1 M...			Qualifier 1 Res..			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	Transition	RT	Resp.				
6-MAM	328.2 -> 165...	8/27/2018 2:29 PM					328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5.278	36868				
7-aminoclonazepam	286.1 -> 121...	8/27/2018 2:29 PM					286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.590	152024				
Benzoylcegonine	290.1 -> 168...	8/27/2018 2:29 PM					290.1 -> 105...				Benzoylcegonine-D8	298.2 -> 171...	5.405	4929				
Metoprolol	268.2 -> 116...	8/27/2018 2:29 PM					268.2 -> 56.3				Noroxycodone-D3	305.2 -> 287...	5.200	72679				
a-hydroxyalprazolam	325.1 -> 297...	8/27/2018 2:29 PM					325.1 -> 215...				a-hydroxyalprazolam-D5	330.1 -> 302...	6.317	36948				
Alprazolam	232.2 -> 91.0	8/27/2018 2:29 PM					232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.1	5.740	44679				
Amphetamine	309.1 -> 281...	8/27/2018 2:29 PM					309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.382	222327				
Cocaine	136.1 -> 91.1	8/27/2018 2:29 PM	5.073	16810	6.05		136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	5.113	179979				
Bupropion	304.2 -> 182...	8/27/2018 2:29 PM					304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.751	474757				
Carisoprodol	240.1 -> 184...	8/27/2018 2:29 PM					240.1 -> 131...				Bupropion-D9	249.2 -> 185...	5.904	527627				
Citalopram	261.2 -> 176...	8/27/2018 2:29 PM					261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	6.084	353502				
Clonazepam	325.2 -> 109...	8/27/2018 2:29 PM					325.2 -> 262...				Citalopram-D6	331.2 -> 109...	6.175	830819				
Codaine	316.1 -> 269...	8/27/2018 2:29 PM					316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.279	39149				
Cyclobenzaprine	300.2 -> 215...	8/27/2018 2:29 PM					300.2 -> 165...				Codaine-D6	306.2 -> 218...	5.179	28312				
Dextromethorphan	276.2 -> 214...	8/27/2018 2:29 PM					276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.449	447226				
Diazepam	272.2 -> 171...	8/27/2018 2:29 PM					272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	6.185	222874				
Dihydrocodeine	258.2 -> 157...	8/27/2018 2:29 PM					258.2 -> 133...				Diazepam-D5	290.1 -> 198...	6.609	167090				
Diphenhydramine	285.1 -> 193...	8/27/2018 2:29 PM					285.1 -> 153...				Dihydrocodeine-D6	308.2 -> 202...	5.077	91730				
Doxylamine	302.2 -> 198...	8/27/2018 2:29 PM					302.2 -> 128...				Diphenhydramine-D3	259.2 -> 167...	6.107	12297...				
EDDP	256.2 -> 167...	8/27/2018 2:29 PM					256.2 -> 152...				Doxylamine-D5	276.2 -> 187...	5.756	987215				
Fentanyl	271.2 -> 182...	8/27/2018 2:29 PM					271.2 -> 167...				EDDP-D3	282.2 -> 235...	6.082	87496				
Fluoxetine	279.2 -> 235...	8/27/2018 2:29 PM					279.2 -> 250...				Fentanyl-D5	342.3 -> 105...	6.276	10992...				
Hydrocodone	337.2 -> 105...	8/27/2018 2:29 PM					337.2 -> 188...				Fluoxetine-D6	316.2 -> 44.3	6.279	12096...				
Hydromorphone	310.1 -> 44.3	8/27/2018 2:29 PM					310.1 -> 148...				Hydrocodone-D6	306.2 -> 202...	5.403	144281				
Ketamine	300.2 -> 198...	8/27/2018 2:29 PM					300.2 -> 128...				Hydromorphone-D6	292.2 -> 185...	4.899	65826				
Mirtazapine	286.2 -> 184...	8/27/2018 2:29 PM					286.2 -> 157...				Ketamine-D4	242.1 -> 129...	5.781	317199				
Meprobamate	238.1 -> 125...	8/27/2018 2:29 PM					238.1 -> 220...				Tramadol-13C-D3	268.2 -> 58.3	5.594	953313				
Methadone	266.2 -> 195...	8/27/2018 2:29 PM					266.2 -> 72.3				Methadone-D7	226.2 -> 165...	5.660	150758				
Morphine	399.2 -> 238...	8/27/2018 2:29 PM					399.2 -> 174...				Methadone-D9	319.3 -> 268...	6.299	10055...				
Nordiprenorphine	219.1 -> 158...	8/27/2018 2:29 PM					219.1 -> 97.1				Morphine-D6	292.2 -> 152...	4.879	3737				
Nortiazepam	310.2 -> 265...	8/27/2018 2:29 PM					310.2 -> 105...				Nordiprenorphine-D3	417.3 -> 101...	6.029	29018				
Norhydrocodone	286.2 -> 201...	8/27/2018 2:29 PM					286.2 -> 165...				Nortiazepam-D5	276.1 -> 140...	6.451	88911				
Noroxycodone	414.3 -> 101...	8/27/2018 2:29 PM					414.3 -> 57.3				Norhydrocodone-D3	289.2 -> 202...	5.285	45085				
O-desmethyl-tramadol	271.1 -> 140...	8/27/2018 2:29 PM					271.1 -> 208...				O-desmethyl-tramadol-...	256.2 -> 64.3	5.108	749813				
Oxazepam	233.2 -> 84.2	8/27/2018 2:29 PM					233.2 -> 55.3				Oxycodone-D6	322.2 -> 304...	5.218	215581				
Oxycodone	232.2 -> 199...	8/27/2018 2:29 PM					232.2 -> 171...				Oxycodone-D5	292.1 -> 246...	6.304	194780				
Phenazepam	286.2 -> 199...	8/27/2018 2:29 PM					286.2 -> 171...				Phenazepam-D3	305.2 -> 287...	5.200	72679				
Promethazine	302.1 -> 284...	8/27/2018 2:29 PM					302.1 -> 186...				Promethazine-D5	292.1 -> 246...	6.304	194780				
Quetiapine	250.2 -> 58.3	8/27/2018 2:29 PM					250.2 -> 42.3				Quetiapine-D3	322.2 -> 304...	5.218	215581				
Sertraline	250.2 -> 240...	8/27/2018 2:29 PM					250.2 -> 241...				Sertraline-D3	305.2 -> 287...	4.713	189448				
Temazepam	287.1 -> 240...	8/27/2018 2:29 PM					287.1 -> 268...				Temazepam-D5	306.1 -> 275...	6.647	258374				
Tramadol	316.2 -> 298...	8/27/2018 2:29 PM					316.2 -> 227...				Tramadol-13C-D3	268.2 -> 58.3	5.594	953313				

Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...			Qualifier 1 Res...			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	Transition	RT	Resp.		
Trazodone	372.2 -> 176...	8/27/2018 2:29 PM					372.2 -> 148...				Trazodone-D6	378.2 -> 182...	6.944	494460		
Venlafaxine	278.2 -> 58.3	8/27/2018 2:29 PM					278.2 -> 260...				Venlafaxine-D6	284.2 -> 64.3	5.878	972746		
Zolpidem	308.2 -> 235...	8/27/2018 2:29 PM					308.2 -> 263...				Zolpidem-D6	314.2 -> 235...	6.280	10461...		

Compound Method			p1 external control			p1 external control Results			Qualifier 1 M...			Qualifier 1 Results			ISTD Method			ISTD Results	
Name	Transition	Acq Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.	
6-MAM	328.2 -> 165...	8/27/2018 2:48 PM					328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5.278	35778	7-Aminoclonazepam-D4	290.1 -> 121...	5.590	148495	
7-Aminoclonazepam	286.1 -> 121...	8/27/2018 2:48 PM					286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.590	148495	Benzoylcegonine-D8	298.2 -> 171...	5.405	5068	
Benzoylcegonine	290.1 -> 168...	8/27/2018 2:48 PM					290.1 -> 105...				Benzoylcegonine-D8	298.2 -> 171...	5.405	5068	Noroxycodone-D3	305.2 -> 287...	5.180	62736	
Metoprolol	268.2 -> 116...	8/27/2018 2:48 PM					268.2 -> 56.3				Noroxycodone-D3	305.2 -> 287...	5.180	62736	a-hydroxyalprazolam-D5	330.1 -> 302...	6.317	37809	
a-hydroxyalprazolam	325.1 -> 297...	8/27/2018 2:48 PM					325.1 -> 215...				a-hydroxyalprazolam-D5	330.1 -> 302...	6.317	37809	alpha-PVP-d8	240.2 -> 91.0	5.740	511294	
alpha-PVP	232.2 -> 91.0	8/27/2018 2:48 PM					232.2 -> 77.1				alpha-PVP-d8	240.2 -> 91.0	5.740	511294	Alprazolam-D5	314.1 -> 286...	6.382	221070	
Alprazolam	309.1 -> 281...	8/27/2018 2:48 PM					309.1 -> 205...				Alprazolam-D5	314.1 -> 286...	6.382	221070	Amphetamine-D11	147.2 -> 130...	5.113	219576	
Amphetamine	136.1 -> 91.1	8/27/2018 2:48 PM					136.1 -> 119...				Amphetamine-D11	147.2 -> 130...	5.113	219576	Cocaine-D3	307.2 -> 185...	5.751	484449	
Cocaine	304.2 -> 182...	8/27/2018 2:48 PM					304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.751	484449	Bupropion-D9	249.2 -> 185...	5.904	551386	
Bupropion	240.1 -> 184...	8/27/2018 2:48 PM					240.1 -> 131...				Bupropion-D9	249.2 -> 185...	5.904	551386	Carisoprodol-D7	268.2 -> 183...	6.084	378431	
Carisoprodol	261.2 -> 176...	8/27/2018 2:48 PM					261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	6.084	378431	Citalopram-D6	331.2 -> 109...	6.175	845149	
Citalopram	325.2 -> 109...	8/27/2018 2:48 PM					325.2 -> 262...				Citalopram-D6	331.2 -> 109...	6.175	845149	Clonazepam-D4	320.1 -> 217...	6.279	33006	
Clonazepam	316.1 -> 269...	8/27/2018 2:48 PM					316.1 -> 213...				Clonazepam-D4	320.1 -> 217...	6.279	33006	Codeine-D6	306.2 -> 218...	5.200	32219	
Codeine	300.2 -> 215...	8/27/2018 2:48 PM					300.2 -> 165...				Codeine-D6	306.2 -> 218...	5.200	32219	Cyclobenzaprine-D3	279.2 -> 215...	6.449	487541	
Cyclobenzaprine	276.2 -> 214...	8/27/2018 2:48 PM					276.2 -> 231...				Cyclobenzaprine-D3	279.2 -> 215...	6.449	487541	Dextromethorphan-D3	275.2 -> 171...	6.207	228329	
Dextromethorphan	272.2 -> 171...	8/27/2018 2:48 PM					272.2 -> 147...				Dextromethorphan-D3	275.2 -> 171...	6.207	228329	Dextrophan-D3	261.2 -> 157...	5.657	200056	
Dextrophan	258.2 -> 157...	8/27/2018 2:48 PM					258.2 -> 133...				Dextrophan-D3	261.2 -> 157...	5.657	200056	Diazepam-D5	290.1 -> 198...	6.609	161324	
Diazepam	285.1 -> 193...	8/27/2018 2:48 PM					285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.609	161324	Dihydrocodeine-D6	308.2 -> 202...	5.077	82457	
Dihydrocodeine	302.2 -> 198...	8/27/2018 2:48 PM					302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	5.077	82457	Diphenhydramine-D3	259.2 -> 167...	6.107	12684...	
Diphenhydramine	256.2 -> 167...	8/27/2018 2:48 PM					256.2 -> 152...				Diphenhydramine-D3	259.2 -> 167...	6.107	12684...	Doxylamine-D5	276.2 -> 187...	5.756	10428...	
Doxylamine	271.2 -> 182...	8/27/2018 2:48 PM					271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.756	10428...	EDDP-D3	282.2 -> 235...	6.102	97428	
EDDP	279.2 -> 235...	8/27/2018 2:48 PM					279.2 -> 250...				EDDP-D3	282.2 -> 235...	6.102	97428	Fentanyl-D5	342.3 -> 105...	6.296	13309...	
Fentanyl	337.2 -> 105...	8/27/2018 2:48 PM					337.2 -> 188...				Fentanyl-D5	342.3 -> 105...	6.296	13309...	Fluoxetine-D6	316.2 -> 44.3	6.279	12926...	
Fluoxetine	310.1 -> 44.3	8/27/2018 2:48 PM					310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.279	12926...	Hydrocodone-D6	306.2 -> 202...	5.403	154291	
Hydrocodone	300.2 -> 198...	8/27/2018 2:48 PM					300.2 -> 128...	171.46	1183...		Hydrocodone-D6	306.2 -> 202...	5.403	154291	Hydromorphone-D6	292.2 -> 185...	4.879	62238	
Hydromorphone	286.2 -> 184...	8/27/2018 2:48 PM					286.2 -> 157...	626.07	1275...		Hydromorphone-D6	292.2 -> 185...	4.879	62238	Ketamine-D4	242.1 -> 129...	5.781	321135	
Ketamine	238.1 -> 125...	8/27/2018 2:48 PM					238.1 -> 220...				Ketamine-D4	242.1 -> 129...	5.781	321135	Mirtazapine-D4	266.2 -> 58.3	5.594	10368...	
Mirtazapine	266.2 -> 195...	8/27/2018 2:48 PM					266.2 -> 72.3				Mirtazapine-D4	266.2 -> 58.3	5.594	10368...	Tramadol-13C-D3	268.2 -> 58.3	5.594	10368...	
Tramadol-13C-D3	268.2 -> 58.3	8/27/2018 2:48 PM					268.2 -> 72.3				Tramadol-13C-D3	268.2 -> 58.3	5.594	10368...	Mitragynine	399.2 -> 238...	8/27/2018 2:48 PM		
Mitragynine	399.2 -> 238...	8/27/2018 2:48 PM					399.2 -> 174...				Mitragynine	399.2 -> 238...	8/27/2018 2:48 PM			Meprobanate-D7	226.2 -> 165...	5.660	161304
Meprobanate	219.1 -> 158...	8/27/2018 2:48 PM					219.1 -> 97.1				Meprobanate-D7	226.2 -> 165...	5.660	161304	Methadone	310.2 -> 265...	8/27/2018 2:48 PM		
Methadone	310.2 -> 265...	8/27/2018 2:48 PM					310.2 -> 105...				Methadone	310.2 -> 265...	8/27/2018 2:48 PM			Methamphetamine-D11	161.2 -> 97.1	5.274	574246
Methamphetamine	150.1 -> 91.1	8/27/2018 2:48 PM					150.1 -> 119...	1.73	12294		Methamphetamine-D11	161.2 -> 97.1	5.274	574246	Morphine-D6	292.2 -> 152...	4.899	2762	
Morphine	286.2 -> 201...	8/27/2018 2:48 PM					286.2 -> 165...	1.03	4536		Morphine-D6	292.2 -> 152...	4.899	2762	Norbuprenorphine-D3	417.3 -> 101...	6.056	26373	
Norbuprenorphine	414.3 -> 101...	8/27/2018 2:48 PM					414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	6.056	26373	Nordiazepam-D5	276.1 -> 140...	6.471	91165	
Nordiazepam	271.1 -> 140...	8/27/2018 2:48 PM					271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6.471	91165	Norfentanyl-D5	238.2 -> 84.2	5.475	612100	
Norfentanyl	233.2 -> 84.2	8/27/2018 2:48 PM					233.2 -> 55.3				Norfentanyl-D5	238.2 -> 84.2	5.475	612100	Norhydrocodone-D3	289.2 -> 202...	5.285	43219	
Norhydrocodone	286.2 -> 199...	8/27/2018 2:48 PM					286.2 -> 171...				Norhydrocodone-D3	289.2 -> 202...	5.285	43219	Noroxycodone-D3	305.2 -> 287...	5.180	62736	
Noroxycodone	302.1 -> 284...	8/27/2018 2:48 PM					302.1 -> 186...				Noroxycodone-D3	305.2 -> 287...	5.180	62736	O-desmethyl-tramadol	250.2 -> 58.3	8/27/2018 2:48 PM		
O-desmethyl-tramadol	250.2 -> 58.3	8/27/2018 2:48 PM					250.2 -> 42.3				O-desmethyl-tramadol	250.2 -> 58.3	8/27/2018 2:48 PM			Oxazepam-D5	292.1 -> 246...	6.304	177283
Oxazepam	287.1 -> 240...	8/27/2018 2:48 PM					287.1 -> 268...				Oxazepam-D5	292.1 -> 246...	6.304	177283	Oxycodone-D6	322.2 -> 304...	5.218	225721	
Oxycodone	316.2 -> 298...	8/27/2018 2:48 PM					316.2 -> 241...				Oxycodone-D6	322.2 -> 304...	5.218	225721	Oxymorphone-D3	305.2 -> 287...	4.692	194436	
Oxymorphone	302.1 -> 284...	8/27/2018 2:48 PM					302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.692	194436	Phentermine-D5	155.2 -> 96.2	5.335	566627	
Phentermine	150.1 -> 65.2	8/27/2018 2:48 PM					150.1 -> 133...	1.34	1016		Phentermine-D5	155.2 -> 96.2	5.335	566627	Promethazine-D3	288.2 -> 89.2	6.508	15687...	
Promethazine	285.1 -> 86.2	8/27/2018 2:48 PM					285.1 -> 71.3				Promethazine-D3	288.2 -> 89.2	6.508	15687...	Quetiapine-D8	392.2 -> 226...	6.477	367122	
Quetiapine	384.2 -> 253...	8/27/2018 2:48 PM					384.2 -> 221...				Quetiapine-D8	392.2 -> 226...	6.477	367122	Setraline-D3	309.1 -> 275...	6.647	263499	
Setraline	306.1 -> 158...	8/27/2018 2:48 PM					306.1 -> 275...	Infinity	5199...		Setraline-D3	309.1 -> 275...	6.647	263499	Temazepam-D5	306.1 -> 260...	6.446	444943	
Temazepam	301.1 -> 255...	8/27/2018 2:48 PM					301.1 -> 283...				Temazepam-D5	306.1 -> 260...	6.446	444943	Tramadol-13C-D3	268.2 -> 58.3	5.594	10368...	
Tramadol	264.2 -> 58.3	8/27/2018 2:48 PM					264.2 -> 43.3				Tramadol-13C-D3	268.2 -> 58.3	5.594	10368...					

Compound Method		p1 external control		p1 external control Results					Qualifier 1 M...			Qualifier 1 Results			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.
Trazodone	372.2 -> 176...	8/27/2018 2:48 PM					372.2 -> 148...				Trazodone-D6	378.2 -> 182...	6.965	424123				
Venlafaxine	278.2 -> 58.3	8/27/2018 2:48 PM					278.2 -> 260...				Venlafaxine-D6	284.2 -> 64.3	5.878	976845				
Zolpidem	308.2 -> 235...	8/27/2018 2:48 PM					308.2 -> 263...				Zolpidem-D6	314.2 -> 235...	6.280	10764...				

Compound Method			p2 negative			p2 negative Results			Qualifier 1 M...			Qualifier 1 R...			ISTD Method			ISTD Results	
Name	Transition	Acq Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	Transition	RT	Resp.					
Acetylphenyl	323.2 -> 188...	8/27/2018 2:39 PM					323.2 -> 105...				Acetylphenyl-D5	328.2 -> 105...	6.144	12028...					
alpha-hydroxymidazolam	342.1 -> 324...	8/27/2018 2:39 PM					342.1 -> 203...				alpha-hydroxymidazolam...	346.1 -> 328...	6.365	343413					
Amitriptyline	278.2 -> 91.2	8/27/2018 2:39 PM					278.2 -> 105...				Amitriptyline-D3	281.2 -> 91.2	6.536	481223					
Acetylphenanthryl	219.1 -> 84.2	8/27/2018 2:39 PM					219.1 -> 56.3				Acetylphenanthryl-D5	224.2 -> 84.2	5.079	470718					
Carbamazepine	237.1 -> 193...	8/27/2018 2:39 PM					237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.095	12323...					
Chlordiazepoxide	300.1 -> 227...	8/27/2018 2:39 PM					300.1 -> 282...				Chlordiazepoxide-D5	392.1 -> 286...	6.492	256617					
Sulfentanil	387.2 -> 238...	8/27/2018 2:39 PM					387.2 -> 111...				Sulfentanil-D5	392.2 -> 238...	6.565	910385					
Desipramine	267.2 -> 72.3	8/27/2018 2:39 PM					267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.458	12218...					
Doxepin	280.2 -> 107...	8/27/2018 2:39 PM					280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.332	599038					
Estazolam	295.1 -> 267...	8/27/2018 2:39 PM					295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.309	283725					
Flunitrazepam	314.1 -> 268...	8/27/2018 2:39 PM					314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.368	9853					
Flurazepam	388.2 -> 315...	8/27/2018 2:39 PM					388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.342	162094					
Imipramine	281.2 -> 86.2	8/27/2018 2:39 PM					281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.494	970125					
Levamisole	205.1 -> 91.2	8/27/2018 2:39 PM					205.1 -> 178...				Sulfentanil-D5	392.2 -> 238...	6.565	910385					
Maprotiline	278.2 -> 91.2	8/27/2018 2:39 PM					278.2 -> 117...				Amitriptyline-D3	281.2 -> 91.2	6.536	481223					
MDA	180.1 -> 163...	8/27/2018 2:39 PM					180.1 -> 105...				MDA-D5	185.1 -> 168...	5.388	266007					
MDEA	208.1 -> 163...	8/27/2018 2:39 PM					208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.630	459762					
MDMA	194.1 -> 163...	8/27/2018 2:39 PM					194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.510	52646					
Meperidine	248.2 -> 220...	8/27/2018 2:39 PM					248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.789	263986					
Methylphenidate	234.2 -> 84.2	8/27/2018 2:39 PM					234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.789	263986					
Midazolam	326.1 -> 223...	8/27/2018 2:39 PM					326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.508	365511					
Normeperidine	234.1 -> 42.3	8/27/2018 2:39 PM					234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.771	205619					
7-Aminoflunitrazepam	284.1 -> 135...	8/27/2018 2:39 PM					284.1 -> 93.2				7-aminoflunitrazepam-D7	291.2 -> 138...	5.762	200403					
Nortriptyline	264.2 -> 91.2	8/27/2018 2:39 PM					264.2 -> 233...				Nortriptyline-D3	267.2 -> 233...	6.479	393110					
Phenazepam	349.0 -> 206...	8/27/2018 2:39 PM					349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.405	21473					
Phencyclidine	244.2 -> 86.2	8/27/2018 2:39 PM					244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.992	962331					
Phenyltolin	253.1 -> 104...	8/27/2018 2:39 PM					253.1 -> 182...				Phenyltolin-D10	263.2 -> 192...	6.012	20920					
Pseudoephedrine	166.1 -> 148...	8/27/2018 2:39 PM					166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.885	653529					
Tapentadol	222.2 -> 107...	8/27/2018 2:39 PM					222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.588	724058					
Zaleplon	306.1 -> 236...	8/27/2018 2:39 PM					306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.207	202689					
Zopiclone	389.1 -> 244...	8/27/2018 2:39 PM					389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.342	162094					

Compound Method			p2 cal 1-2b			p2 cal 1-2b Results			Qualifier 1 M...			Qualifier 1 Resu...			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	Transition	S/N	Area	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.				
7-Aminoflunitrazepam	284.1 -> 135...	8/28/2018 1:39 AM	5.763	31350	160.47	284.1 -> 93.2	30.75	10760	7-Aminoflunitrazepam-D7	291.2 -> 138...	5.762	171826								
Acetylfentanyl	323.2 -> 188...	8/28/2018 1:39 AM	6.205	9341	31.62	323.2 -> 105...	4.80	14886	Acetylfentanyl-D5	328.2 -> 105...	6.164	908526								
Acetylthiofentanyl	219.1 -> 84.2	8/28/2018 1:39 AM	5.080	6904	124.22	219.1 -> 56.3	21.74	2059	Acetylthiofentanyl-D5	224.2 -> 84.2	5.058	420398								
alpha-hydroxymidazolam	342.1 -> 324...	8/28/2018 1:39 AM	6.406	51386	82.66	342.1 -> 203...	8871...	29594	alpha-hydroxymidazolam...	346.1 -> 328...	6.406	293870								
Amiripryline	278.2 -> 91.2	8/28/2018 1:39 AM	6.558	164715	Infinity	278.2 -> 105...	30.29	58450	Amiripryline-D3	281.2 -> 91.2	6.556	373328								
Carbamazepine	237.1 -> 193...	8/28/2018 1:39 AM	6.117	19434	63.04	237.1 -> 194...	335.44	1839...	Carbamazepine-13C6	243.1 -> 200...	6.116	10187...								
Chlordiazepoxide	300.1 -> 227...	8/28/2018 1:39 AM	6.533	29677	20496...	300.1 -> 282...	40.69	12488	Chlordiazepoxide-D5	305.1 -> 286...	6.532	220900								
Desipramine	267.2 -> 72.3	8/28/2018 1:39 AM	6.499	176706	18.92	267.2 -> 44.3	Infinity	1037...	Desipramine-D3	270.2 -> 75.3	6.479	10022...								
Doxepin	280.2 -> 107...	8/28/2018 1:39 AM	6.374	68182	13.65	280.2 -> 77.2	10.97	30787	Doxepin-D3	283.2 -> 107...	6.373	429929								
Esiazolam	295.1 -> 267...	8/28/2018 1:39 AM	6.351	51850	238.94	295.1 -> 205...	324.46	40728	Esiazolam-D5	300.1 -> 272...	6.350	249713								
Flunitrazepam	314.1 -> 268...	8/28/2018 1:39 AM	6.409	37607	105.84	314.1 -> 239...	81.56	13033	Flunitrazepam-D7	321.1 -> 245...	6.388	7597								
Flurazepam	388.2 -> 315...	8/28/2018 1:39 AM	6.323	113233	84.07	388.2 -> 317...	207.58	26222	Zopiclone-D4	393.1 -> 244...	6.342	136318								
Imipramine	281.2 -> 86.2	8/28/2018 1:39 AM	6.536	246135	81.43	281.2 -> 58.3	44.38	1525...	Imipramine-D3	284.2 -> 61.3	6.535	815157								
Levamisole	205.1 -> 91.2	8/28/2018 1:39 AM	5.469	38740	Infinity	205.1 -> 178...	Infinity	33258	Sufentanil-D5	392.2 -> 238...	6.605	710595								
Maprotiline	278.2 -> 91.2	8/28/2018 1:39 AM	6.558	163387	Infinity	278.2 -> 117...	92.49	70641	Amiripryline-D3	281.2 -> 91.2	6.556	373328								
MDA	180.1 -> 163...	8/28/2018 1:39 AM	5.409	39190	8.53	180.1 -> 105...	3.46	40114	MDA-D5	185.1 -> 168...	5.388	248909								
MDEA	208.1 -> 163...	8/28/2018 1:39 AM	5.631	63225	7.55	208.1 -> 105...	52.18	62433	MDEA-D6	214.2 -> 166...	5.630	393733								
MDMA	194.1 -> 163...	8/28/2018 1:39 AM	5.510	80836	12.93	194.1 -> 105...	4.98	54694	MDMA-D6	200.2 -> 166...	5.530	44585								
Meperidine	248.2 -> 220...	8/28/2018 1:39 AM	5.809	39399	20.59	248.2 -> 174...	18.59	22286	Meperidine-D4	252.2 -> 224...	5.809	235751								
Methylenedate	234.2 -> 84.2	8/28/2018 1:39 AM	5.689	206720	69.49	234.2 -> 56.3	20.38	47429	Meperidine-D4	252.2 -> 224...	5.809	235751								
Midazolam	326.1 -> 223...	8/28/2018 1:39 AM	6.549	16894	10188...	326.1 -> 249...	114.28	16913	Midazolam-D4	330.1 -> 295...	6.549	321084								
Normeperidine	234.1 -> 42.3	8/28/2018 1:39 AM	5.772	59660	29.80	234.1 -> 160...	30.25	33863	Normeperidine-D4	238.2 -> 164...	5.771	174386								
Northipylone	264.2 -> 91.2	8/28/2018 1:39 AM	6.439	243731	34.07	264.2 -> 233...	44.50	2882...	Northipylone-D3	267.2 -> 233...	6.499	318154								
Phenazepam	349.0 -> 206...	8/28/2018 1:39 AM	6.446	44309	30475...	349.0 -> 183...	177.85	35919	Phenazepam-D4	353.0 -> 183...	6.425	16680								
Phencyclidine	244.2 -> 86.2	8/28/2018 1:39 AM	6.014	145490	64.51	244.2 -> 91.1	36.60	1133...	Phencyclidine-D5	249.2 -> 86.2	6.013	748139								
PhenyoIn	253.1 -> 104...	8/28/2018 1:39 AM	6.053	3395	5.80	253.1 -> 182...	35.25	3075	PhenyoIn-D10	263.2 -> 192...	6.032	15791								
Pseudoephedrine	166.1 -> 148...	8/28/2018 1:39 AM	4.885	10392...	400.80	166.1 -> 133...	34.35	2120...	Pseudoephedrine-D3	169.1 -> 151...	4.885	554863								
Sufentanil	387.2 -> 238...	8/28/2018 1:39 AM	6.606	16388	28.90	387.2 -> 111...	15.80	13673	Sufentanil-D5	392.2 -> 238...	6.605	710595								
Tapentadol	222.2 -> 107...	8/28/2018 1:39 AM	5.589	113165	51.45	222.2 -> 121...	46.20	42893	Tapentadol-D3	225.2 -> 107...	5.588	646097								
Zaleplon	306.1 -> 236...	8/28/2018 1:39 AM	6.227	43507	121.63	306.1 -> 264...	121.35	29614	Zaleplon-D4	310.2 -> 240...	6.207	183129								
Zopiclone	389.1 -> 244...	8/28/2018 1:39 AM	6.322	10678	110.14	389.1 -> 216...	5.15	5421	Zopiclone-D4	393.1 -> 244...	6.342	136318								

Compound Method		p2 external control		p2 external control Results		Qualifier 1 M...		Qualifier 1 Results		ISTD Method		ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	S/N	Area	MI	Name	Transition	RT	Resp.
Acetylfentanyl	323.2 -> 188...	8/27/2018 2:58 PM					323.2 -> 105...				Acetylfentanyl-D5	328.2 -> 105...	6.144	11484...
alpha-hydroxymidazolam	342.1 -> 324...	8/27/2018 2:58 PM					342.1 -> 203...				alpha-hydroxymidazolam-...	346.1 -> 328...	6.365	339484
Amitriptyline	278.2 -> 91.2	8/27/2018 2:58 PM					278.2 -> 105...				Amitriptyline-D3	281.2 -> 91.2	6.516	472964
Acetylthorfenantyl	219.1 -> 84.2	8/27/2018 2:58 PM					219.1 -> 56.3				Acetylthorfenantyl-D5	224.2 -> 84.2	5.079	490782
Carbamazepine	237.1 -> 193...	8/27/2018 2:58 PM					237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.116	12505...
Chlordiazepoxide	300.1 -> 227...	8/27/2018 2:58 PM					300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286...	6.512	268460
Sulfentanil	387.2 -> 238...	8/27/2018 2:58 PM					387.2 -> 111...				Sulfentanil-D5	392.2 -> 238...	6.565	932437
Desipramine	267.2 -> 72.3	8/27/2018 2:58 PM					267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.458	12152...
Doxepin	280.2 -> 107...	8/27/2018 2:58 PM					280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.332	605041
Estazolam	295.1 -> 267...	8/27/2018 2:58 PM					295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.330	301713
Flunitrazepam	314.1 -> 268...	8/27/2018 2:58 PM					314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.368	9016
Flurazepam	388.2 -> 315...	8/27/2018 2:58 PM					388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	6.322	116250
Imipramine	281.2 -> 86.2	8/27/2018 2:58 PM					281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.494	10142...
Levamisole	205.1 -> 91.2	8/27/2018 2:58 PM					205.1 -> 178...				Sulfentanil-D5	392.2 -> 238...	6.565	932437
Maprotiline	278.2 -> 91.2	8/27/2018 2:58 PM					278.2 -> 117...				Amitriptyline-D3	281.2 -> 91.2	6.516	472964
MDA	180.1 -> 163...	8/27/2018 2:58 PM					180.1 -> 105...				MDA-D5	185.1 -> 168...	5.388	295617
MDEA	208.1 -> 163...	8/27/2018 2:58 PM					208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.651	484625
MDMA	194.1 -> 163...	8/27/2018 2:58 PM					194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.510	55016
Meperidine	248.2 -> 220...	8/27/2018 2:58 PM					248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.789	279553
Methyphenidate	234.2 -> 84.2	8/27/2018 2:58 PM					234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.789	279553
Midazolam	326.1 -> 223...	8/27/2018 2:58 PM					326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.528	371729
Normeperidine	234.1 -> 42.3	8/27/2018 2:58 PM					234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.771	206358
7-Aminoflunitrazepam	284.1 -> 135...	8/27/2018 2:58 PM					284.1 -> 93.2				7-aminoflunitrazepam-D7	291.2 -> 138...	5.762	200632
Nortriptyline	264.2 -> 91.2	8/27/2018 2:58 PM					264.2 -> 233...				Nortriptyline-D3	267.2 -> 233...	6.459	377928
Phenazepam	349.0 -> 206...	8/27/2018 2:58 PM					349.0 -> 183...				Phenazepam-D4	353.0 -> 183...	6.405	23021
Phencyclidine	244.2 -> 86.2	8/27/2018 2:58 PM					244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	6.013	10522...
Phenylethanol	253.1 -> 104...	8/27/2018 2:58 PM					253.1 -> 182...				Phenylethanol-D10	263.2 -> 192...	6.012	22144
Pseudoephedrine	166.1 -> 148...	8/27/2018 2:58 PM					166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.905	659159
Tapentadol	222.2 -> 107...	8/27/2018 2:58 PM					222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.588	742678
Zaleplon	306.1 -> 236...	8/27/2018 2:58 PM					306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.207	215323
Zopiclone	389.1 -> 244...	8/27/2018 2:58 PM					389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	6.322	116250

AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 8/27/2018

Analyst: B. W. Glin

Plate lot#: 0515037

Plate Expiration: 09/28/2018

Mobile phase A: 10mM Ammonium Formate
0.1% Formic Acid in Water MTBE

Mobile phase B: 0.1% Formic acid in MeOH
Hexane

Blank Blood Lot: 18G207D7

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: 08272018 AM25-26

Analytic:

1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
2. Pipette **1000 µL blood (calibrated pipette) Pipette ID: k52558g** in wells of analytical (standards) plate.
 - Blank blood for locations containing standards/QCs and internal standards
 - Sample blood for locations containing only internal standards
3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
4. Pipette **500 µL 0.1% formic acid** in wells of analytical plate.
5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
6. Transfer **800 µL 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: 66792
8. Wait 5 minutes.
9. Add **2.25 mL MTBE** (add in 3 increments of 750uL).
10. Wait 5 minutes.
11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
12. Add **2.25 mL hexane** (add in 3 increments of 750uL).
13. Wait 5 minutes.
14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
16. 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: 082718 AM25-26 Batch Name: 08272018 thcs
2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
3. Retention time within +/- 2% or +/- 100 min whichever is greater of the average retention time of the calibrators.
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:

BW

ISP FORENSICS - Cd'A

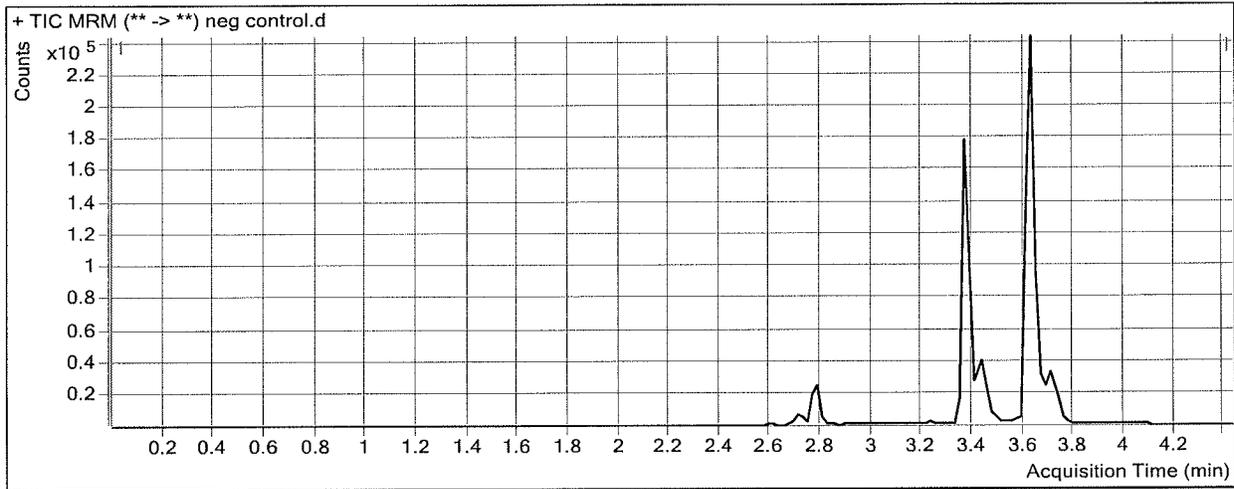
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 03:27 **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

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.266	4158	86117	0.0483	2.4043 <i>LS</i>

ISP FORENSICS - Cd'A

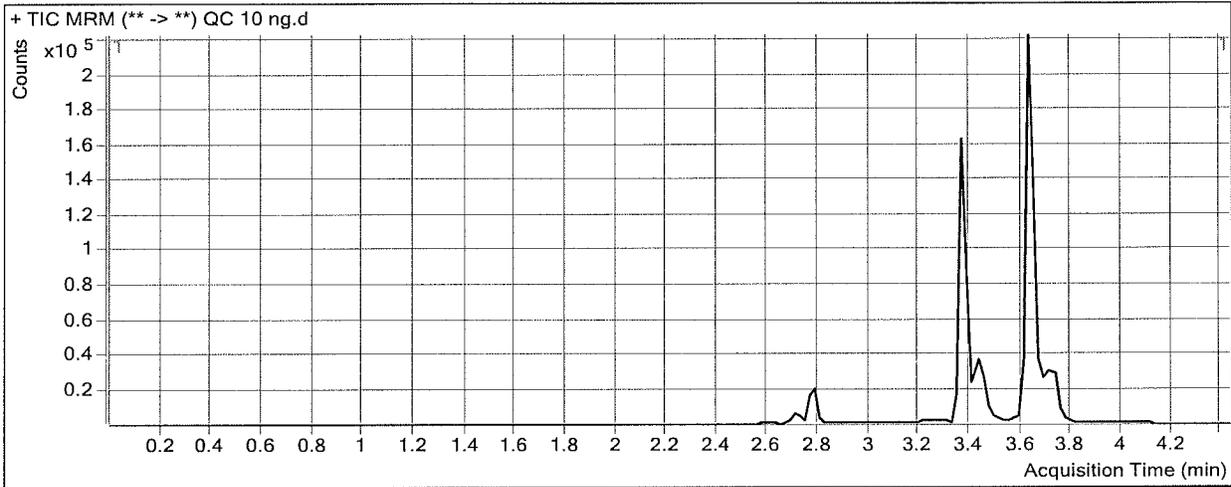
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 03:14 **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

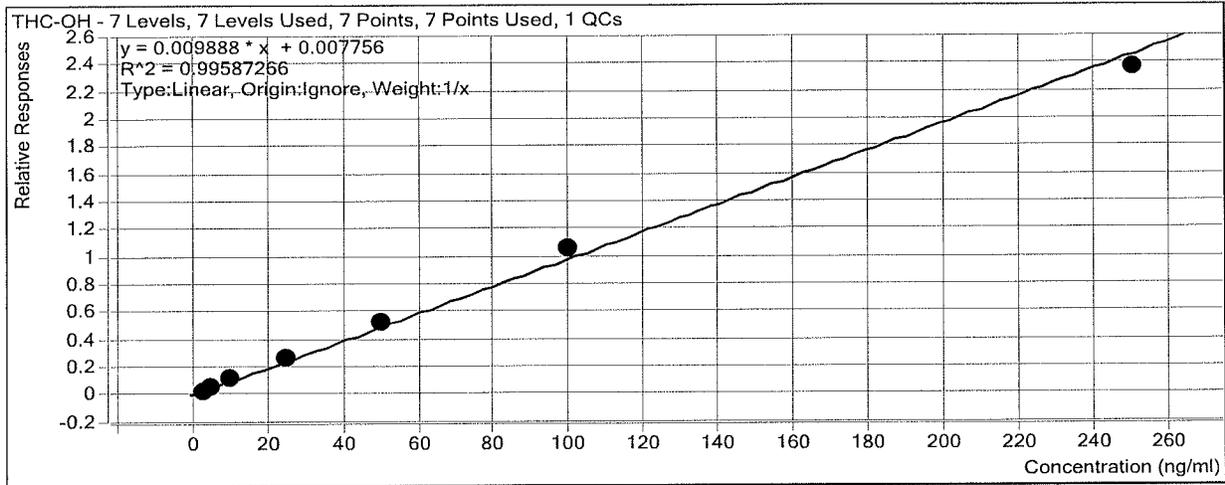
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.372	33469	310928	0.1076	10.1014
THC-COOH	3.446	14637	66342	0.2206	11.3177
THC	3.740	1512	14912	0.1014	9.2714

ISP Forensics Calibration Curve Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin

Last Calib Update 9/4/2018 11:04 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input checked="" type="checkbox"/>	3	2.2	72.3
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.2	103.8
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	11.1	110.7
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.1	101.0
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	26.2	105.0
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	53.1	106.2
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	106.5	106.5
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	238.7	95.5

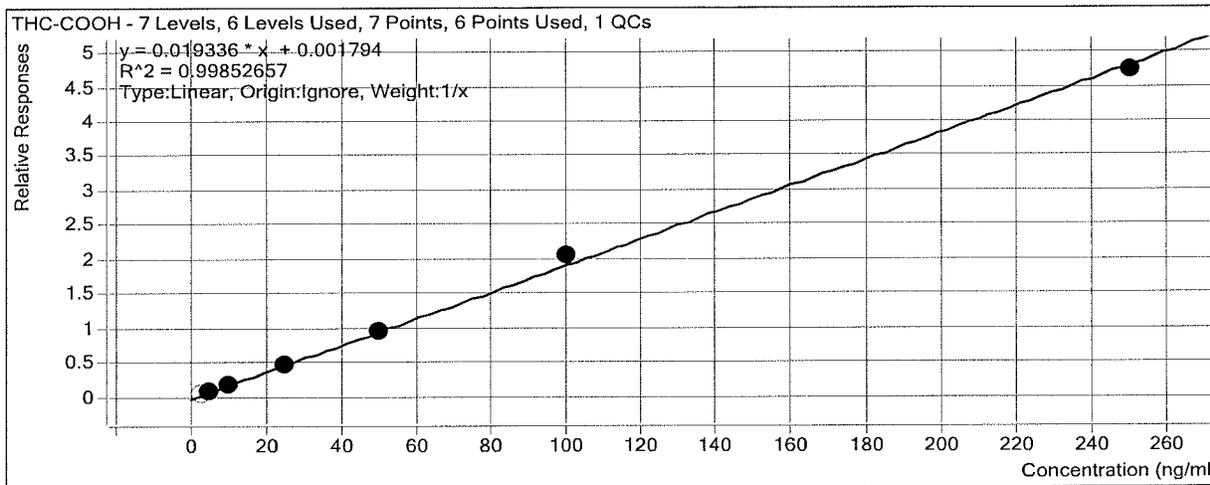
ISP

ISP Forensics Calibration Curve Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin

Last Calib Update 9/4/2018 11:04 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input type="checkbox"/>	3	3.2	105.9
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.9	97.6
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.0	99.6
QC 10 ng	3	<input checked="" type="checkbox"/>	10	11.3	113.2
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.0	100.1
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	49.4	98.7
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	106.2	106.2
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	244.6	97.8

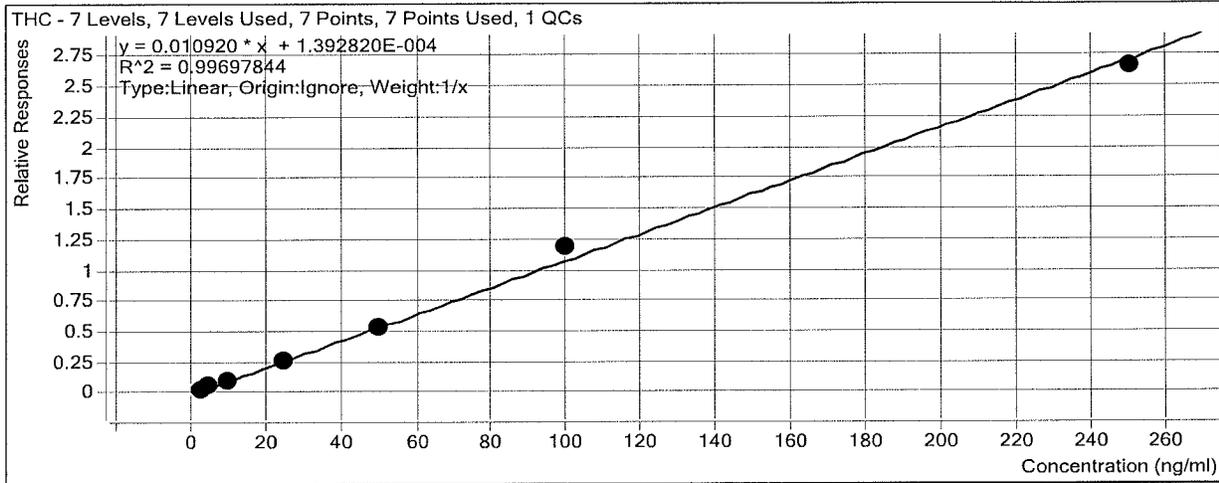


ISP Forensics Calibration Curve Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin

Last Calib Update 9/4/2018 11:04 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	<input checked="" type="checkbox"/>	3	3.2	105.3
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.0	101.0
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.3	92.6
QC 10 ng	3	<input checked="" type="checkbox"/>	10	9.3	92.7
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.4	97.7
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	48.5	96.9
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	109.2	109.2
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	243.5	97.4

ISP FORENSICS - Cd'A

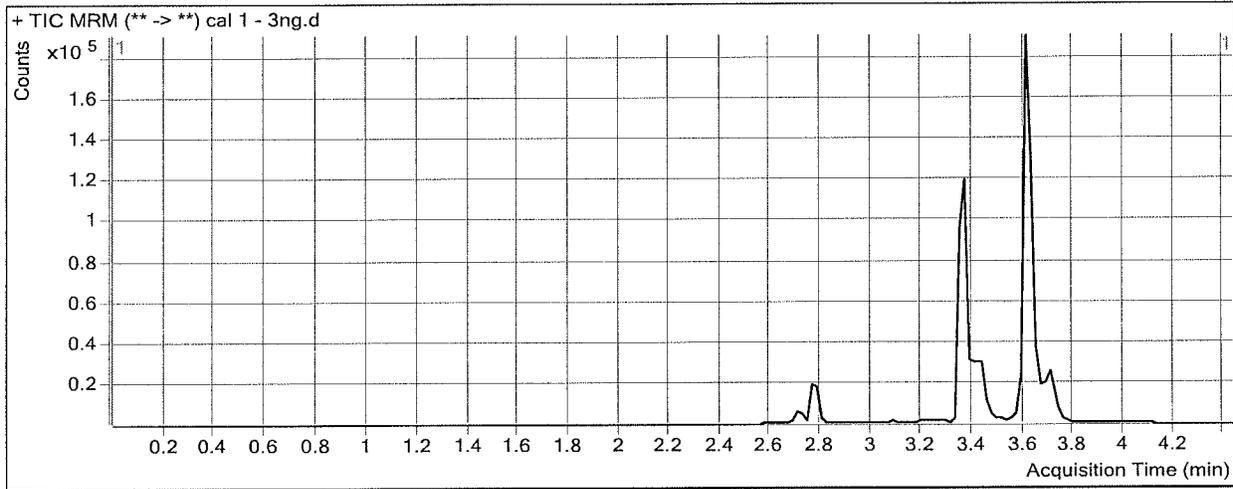
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 02:22 **Data File** cal 1 - 3ng.d
Sample Type Calibration **Sample Name** cal 1 - 3ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position p1-a1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.372	8562	293207	0.0292	2.1686
THC-COOH	3.426	4912	77679	0.0632	3.1771
THC	3.720	471	13609	0.0346	3.1587



ISP FORENSICS - Cd'A

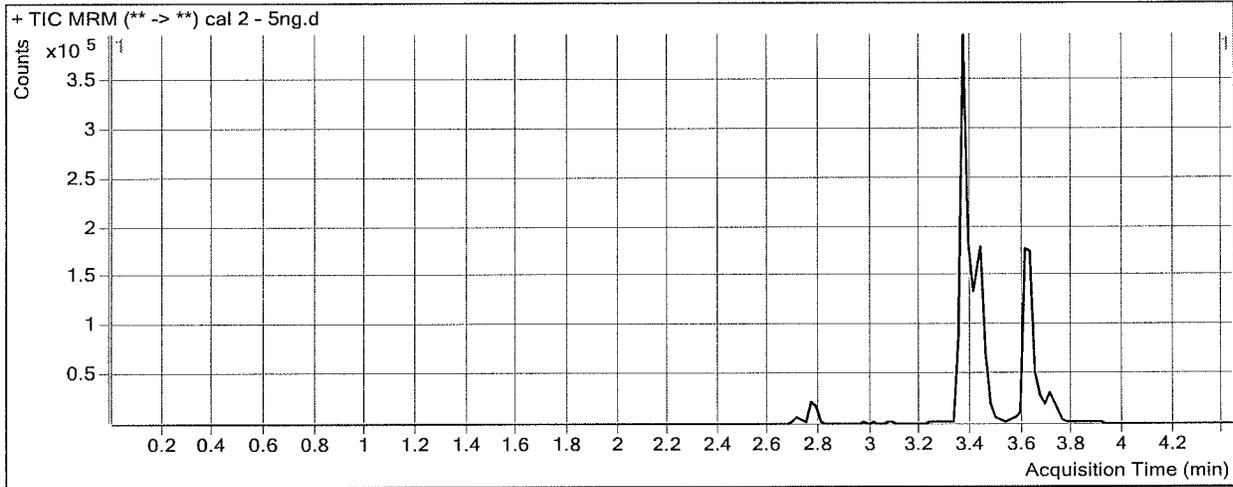
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 02:28 **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	3.372	46527	787848	0.0591	5.1878
THC-COOH	3.426	37868	393880	0.0961	4.8793
THC	3.720	903	16350	0.0553	5.0476

BW

ISP FORENSICS - Cd'A

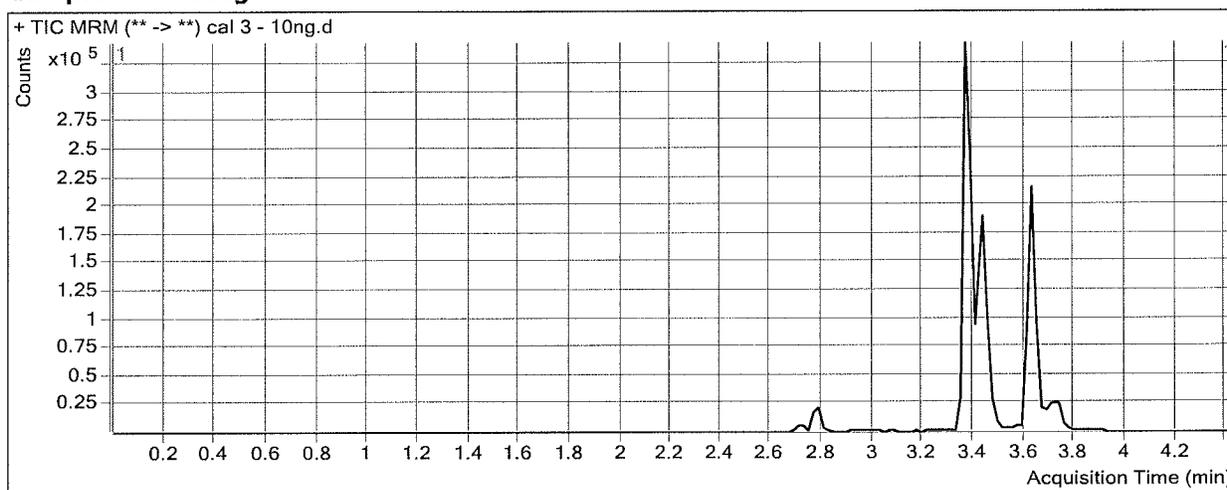
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 02:35 **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	3.372	82677	705107	0.1173	11.0735
THC-COOH	3.446	66888	344149	0.1944	9.9588
THC	3.720	1540	15216	0.1012	9.2569



ISP FORENSICS - Cd'A

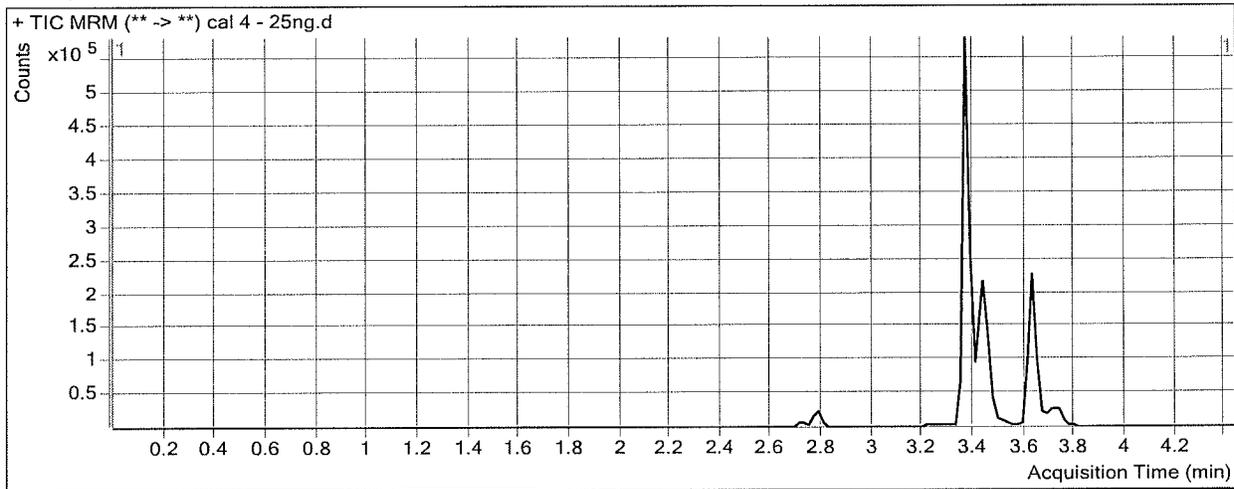
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 02:41 **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	3.372	237649	888989	0.2673	26.2499
THC-COOH	3.446	156164	321558	0.4856	25.0232
THC	3.720	4313	16163	0.2669	24.4252

ISP FORENSICS - Cd'A

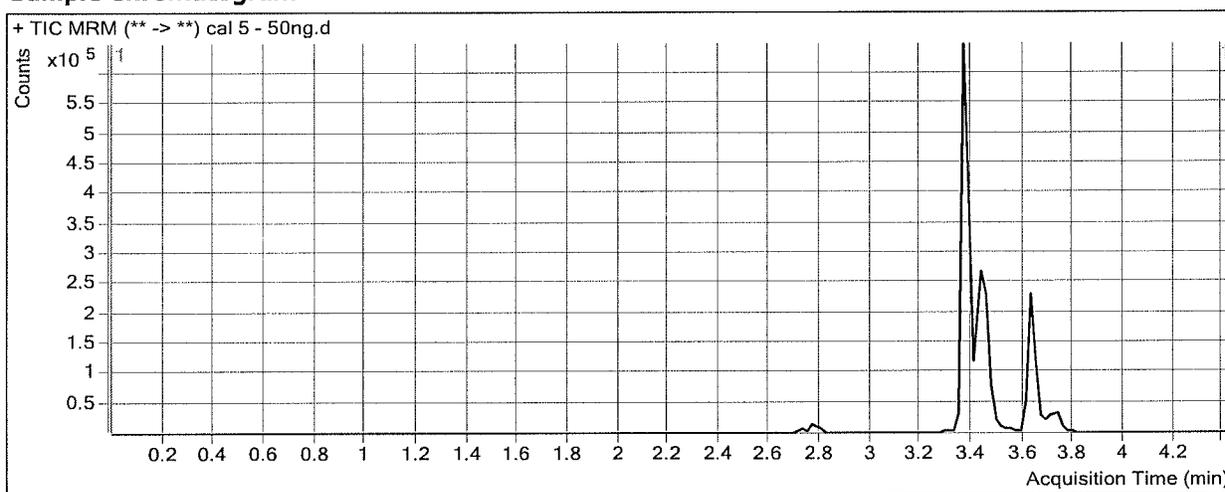
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 02:48 **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	3.372	468246	878717	0.5329	53.1048
THC-COOH	3.446	302056	315865	0.9563	49.3629
THC	3.740	8498	16052	0.5294	48.4674

ISP FORENSICS - Cd'A

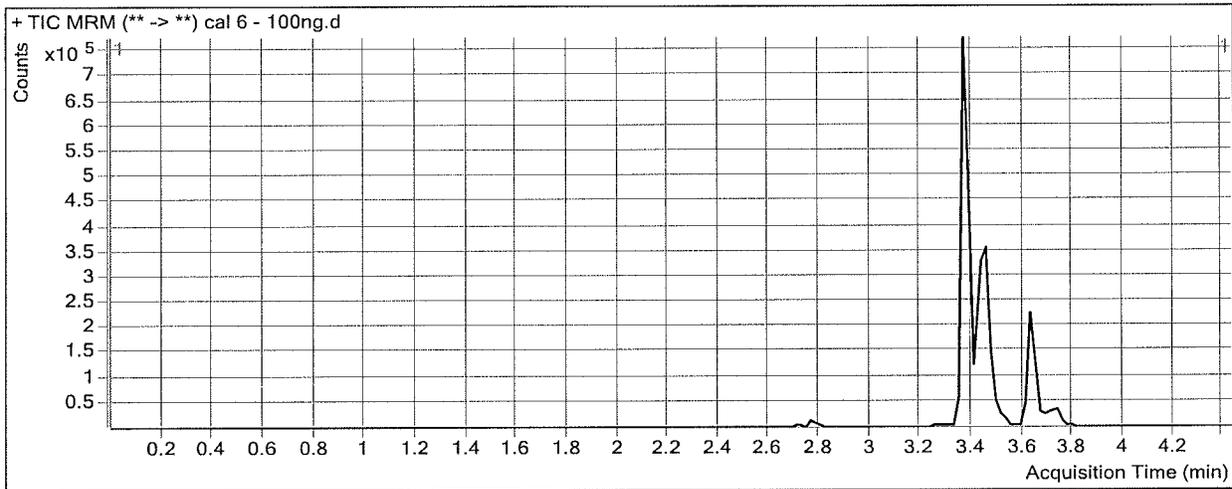
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 02:55 **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	3.372	807910	761266	1.0613	106.5409
THC-COOH	3.446	570563	277701	2.0546	106.1636
THC	3.740	18836	15801	1.1921	109.1579

ISP FORENSICS - Cd'A

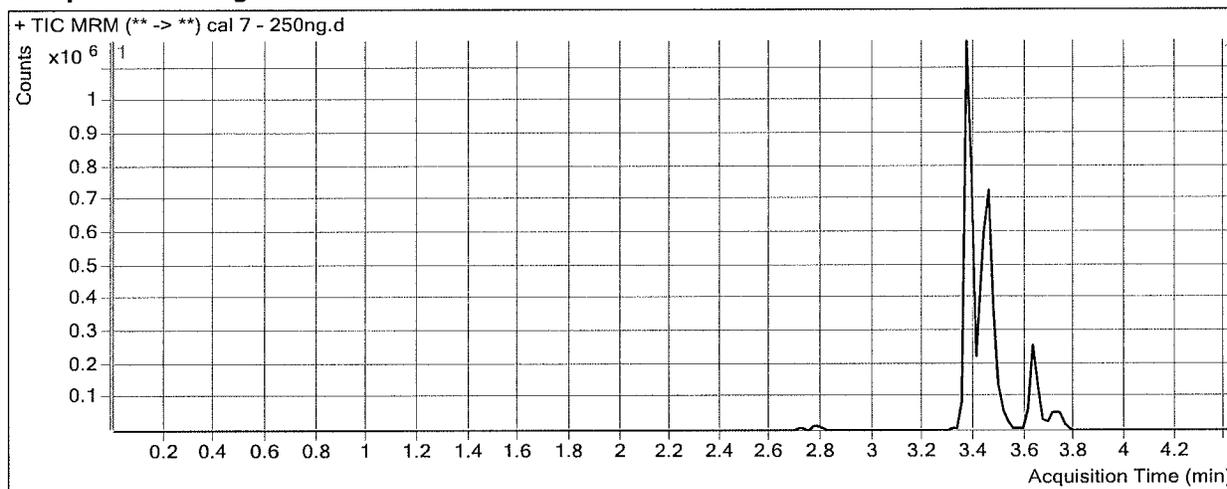
Cannabinoid Screen Report

Batch Data Path D:\2018 Data\082718 AM 25-26\QuantResults\8272018 thcs.batch.bin
Analysis Time 9/4/2018 11:04 AM **Analyst Name** ISP Tox
Report Time 9/4/2018 11:05 AM **Reporter Name** ISP Tox
Last Calib Update 9/4/2018 11:04 AM **Batch State** Processed

Analysis Info

Acq Time 2018-08-28 03:01 **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	3.372	1712917	723405	2.3679	238.6744
THC-COOH	3.446	1342610	283750	4.7317	244.6123
THC	3.740	51535	19382	2.6589	243.4863