
































B. Wylie

Worklist: 1578

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-0126	1	75175	AM 25/AM 26 Blood MultiDrug/	
C2017-0148	1	75087	AM 25/AM 26 Blood MultiDrug/	
C2017-0181	1	75508	AM 25/AM 26 Blood MultiDrug/	
C2017-0225	2	77427	AM 25/AM 26 Blood MultiDrug/	
M2016-4500	1.1	74992	AM 25/AM 26 Blood MultiDrug/	
M2017-0112	1	75603	AM 25/AM 26 Blood MultiDrug/	
M2017-0154	1	75604	AM 25/AM 26 Blood MultiDrug/	
M2017-0285	1	77431	AM 25/AM 26 Blood MultiDrug/	
M2017-0295	1	75609	AM 25/AM 26 Blood MultiDrug/	
M2017-0400	1	77429	AM 25/AM 26 Blood MultiDrug/	
M2017-0445	3	77432	AM 25/AM 26 Blood MultiDrug/	
M2017-0449	2	77430	AM 25/AM 26 Blood MultiDrug/	
M2017-0490	4	77433	AM 25/AM 26 Blood MultiDrug/	
M2017-0561	3	77434	AM 25/AM 26 Blood MultiDrug/	
M2017-0574	1	77708	AM 25/AM 26 Blood MultiDrug/	
M2017-0738	1	77709	AM 25/AM 26 Blood MultiDrug/	
P2017-0148	1	77435	AM 25/AM 26 Blood MultiDrug/	
P2017-0149	1	77437	AM 25/AM 26 Blood MultiDrug/	
P2017-0150	1	77438	AM 25/AM 26 Blood MultiDrug/	
P2017-0180	1	77439	AM 25/AM 26 Blood MultiDrug/	
P2017-0181	1	77440	AM 25/AM 26 Blood MultiDrug/	
P2017-0182	1	77441	AM 25/AM 26 Blood MultiDrug/	
P2017-0192	1	77442	AM 25/AM 26 Blood MultiDrug/	



Worklist: 1578

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
P2017-0197	1	77443	AM 25/AM 26 Blood MultiDrug/	
P2017-0313	1	77444	AM 25/AM 26 Blood MultiDrug/	
P2017-0329	1	77445	AM 25/AM 26 Blood MultiDrug/	
P2017-0330	1	77446	AM 25/AM 26 Blood MultiDrug/	
P2017-0331	1	77447	AM 25/AM 26 Blood MultiDrug/	
P2017-0348	1	77448	AM 25/AM 26 Blood MultiDrug/	
P2017-0360	1	76974	AM 25/AM 26 Blood MultiDrug/	
P2017-0401	1	77208	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 2-27-17

Analyst: Anne Nord

PRE-ANALYTIC

Plate Lot# 0495940

Plate. Exp. 12/12/2017

1. Ensure all solutions are within expiration date.

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

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

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

✓ 4. Create worklist. Data path name: 2-27-17 blood screen AM 25-26

ANALYTIC

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

✓ 2. Pipette **250µL blood** in wells of analytical (standards) plate. Mix via aspirate and dispense.

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

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

✓ 4. Pipette **250µL 0.5M ammonium hydroxide** buffer in wells of analytical (standards) plate.

✓ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.

✓ 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.

7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).

(Load at 85-100 PSI- Selector to the right) Manifold ID 66729

Wait 5 min.

✓ 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.

✓ 9. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*

✓ 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.

✓ 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*

✓ 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID 66819*

✓ 13. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST-ANALYTIC

✓ 1. Open quantitation software and create a new quantitation batch. Batch name: 022717 multidrug screen a

✓ 2. Make any necessary integration changes.

✓ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% rt of administrative control. > ^{1/10} _{1/5 *} the response of administrative control.

✓ 4. Did all QCs pass for each analyte? (Y) / N

✓ 5. Central File Packet to include: LIMS Worklist: Method Checklist Calibration and Control Reports

COMMENTS:

Compound Method		p1 external control			p1 external control Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Qualifier 1 M...	Qualifier S/N	Name	Transition	RT	Resp.	
Tramadol	264.2 -> 58.3	2/27/2017 8:10 PM	P2-...	5.676	6887	2.59	264.2 -> 43.3	1.01	Tramadol-13C-D3	268.2 -> 58.3	5.656	10395...	
Trazodone	372.2 -> 176...	2/27/2017 8:10 PM	P2-...	6.881	32889...	6643.17	372.2 -> 148...	849807...	Sufentanil-D5	392.2 -> 238...	6.799	10092...	
Venlafaxine	278.2 -> 58.3	2/27/2017 8:10 PM	P2-...				278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	5.979	10119...	
Zolpidem	308.2 -> 235...	2/27/2017 8:10 PM	P2-...	6.138	35	0.60	308.2 -> 263...	0.32	Zolpidem-D6	314.2 -> 235...	6.463	10744...	

Compound Method	p1 cal 1a			p1 cal 1a Results			ISTD Method			ISTD Results			
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Qualifier 1 M..	S/N	Qualifier ..	Name	Transition	RT	Resp.
Tramadol	264.2 -> 58.3	2/27/2017 7:31 PM	P2-A1	5.656	230111	163.20	264.2 -> 43.3	9.52		Tamadol-13C-D3	268.2 -> 58.3	5.656	11061...
Trazodone	372.2 -> 176...	2/27/2017 7:31 PM	P2-A1	6.881	295461	785.41	372.2 -> 148..	193.09		Sufentanil-D5	392.2 -> 238..	6.799	993758
Venlafaxine	278.2 -> 58.3	2/27/2017 7:31 PM	P2-A1	5.980	230078	154.72	278.2 -> 260..	27.53		Venlafaxine-D6	284.2 -> 64.3	5.979	10262..
Zolpidem	308.2 -> 235...	2/27/2017 7:31 PM	P2-A1	6.465	218987	277.24	308.2 -> 263..	306.10		Zolpidem-D6	314.2 -> 235..	6.463	10603..

Compound Method			p1 negative			p1 negative Results			ISTD Method				
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Qualifier 1 M...	S/N	Qualifier...	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	2/27/2017 7:50 PM	P2...	5.199	630	48.53	328.2 -> 211...	3.72	6-MAM-D6	334.2 -> 165...	5.443	58958	
7-aminoclonazepam	286.1 -> 121...	2/27/2017 7:50 PM	P2...	5.550	186	0.87	286.1 -> 222...	1.74	7-Aminoclonazepam-D4	290.1 -> 121...	5.590	174018	
Acetyl Fentanyl	323.2 -> 105...	2/27/2017 7:50 PM	P2...	6.216	122	0.58	323.2 -> 188...	1.55	Acetyl Fentanyl-D5	328.2 -> 105...	6.234	14312...	
Acetyl Norfentanyl	219.1 -> 84.2	2/27/2017 7:50 PM	P2...	5.132	176	69.20	219.1 -> 56.3	1.27	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.050	477623	
alpha-hydroxyvalproalam	325.1 -> 297...	2/27/2017 7:50 PM	P2...	6.663	111	1.30	325.1 -> 215...	0.67	alpha-hydroxyvalproalam-D5	330.1 -> 302...	6.458	45004	
alpha-PVP	232.2 -> 91.0	2/27/2017 7:50 PM	P2...	5.925	857	0.61	232.2 -> 77.1	0.16	alpha-PVP-d8	240.2 -> 91.1	5.863	613661	
Alprazolam	309.1 -> 281...	2/27/2017 7:50 PM	P2...	6.382	2726	9.45	309.1 -> 205...	0.16	Alprazolam-D5	314.1 -> 286...	6.545	233895	
Amphetamine	136.1 -> 91.1	2/27/2017 7:50 PM	P2...	5.013	54420	13.09	136.1 -> 119...	1.57	Amphetamine-D11	147.2 -> 130...	4.992	155420	
Bupropion	240.1 -> 184...	2/27/2017 7:50 PM	P2...	6.148	162	0.54	240.1 -> 131...	2.32	Ketamine-D4	242.1 -> 129...	6.066	273948	
Carisoprodol	261.2 -> 176...	2/27/2017 7:50 PM	P2...	6.642	531	0.59	261.2 -> 55.3	0.37	Carisoprodol-D7	268.2 -> 183...	6.187	440211	
Chlalopram	325.2 -> 109...	2/27/2017 7:50 PM	P2...	6.544	336	1.05	325.2 -> 262...	0.76	Chlalopram-D6	331.2 -> 109...	6.234	877358	
Clonazepam	316.1 -> 269...	2/27/2017 7:50 PM	P2...	5.203	895	0.90	316.1 -> 213...	18.69	Clonazepam-D4	320.1 -> 217...	6.400	26294	
Codaine	300.2 -> 215...	2/27/2017 7:50 PM	P2...	6.531	523	1.21	300.2 -> 165...	0.47	Codaine-D6	306.2 -> 218...	5.426	43960	
Cyclobenzaprine	276.2 -> 214...	2/27/2017 7:50 PM	P2...	6.144	115	0.74	276.2 -> 231...	0.40	Cyclobenzaprine-D3	279.2 -> 215...	6.571	600943	
Dextromethorphan	272.2 -> 171...	2/27/2017 7:50 PM	P2...	5.760	553	2.48	272.2 -> 147...	0.60	Dextromethorphan-D3	275.2 -> 171...	6.308	281971	
Dextrophan	258.2 -> 157...	2/27/2017 7:50 PM	P2...	6.160	1966	0.74	258.2 -> 133...	0.20	Dextrophan-D5	261.2 -> 157...	5.636	253237	
Diazepam	285.1 -> 193...	2/27/2017 7:50 PM	P2...	6.590	16	0.20	285.1 -> 153...	0.60	Diazepam-D5	290.1 -> 198...	6.771	210992	
Dihydrocodeine	302.2 -> 198...	2/27/2017 7:50 PM	P2...	5.243	1138	0.95	302.2 -> 128...	2.59	Dihydrocodeine-D6	308.2 -> 202...	5.160	137395	
Diphenhydramine	256.2 -> 167...	2/27/2017 7:50 PM	P2...	6.208	41	0.30	256.2 -> 152...	2.76	Diphenhydramine-D3	259.2 -> 167...	6.228	16762...	
Doxylamine	271.2 -> 182...	2/27/2017 7:50 PM	P2...	6.326	1115	0.48	271.2 -> 167...	1.56	Doxylamine-D5	276.2 -> 187...	5.878	13665...	
EDDP	279.2 -> 235...	2/27/2017 7:50 PM	P2...	6.600	507	0.47	279.2 -> 250...	0.34	EDDP-D3	282.2 -> 235...	6.244	9552	
Fentanyl	337.2 -> 105...	2/27/2017 7:50 PM	P2...	6.422	319	0.57	337.2 -> 188...	2.99	Fentanyl-D5	342.3 -> 105...	6.416	13411...	
Fluoxetine	310.1 -> 44.3	2/27/2017 7:50 PM	P2...	5.083	1761	0.75	310.1 -> 148...	2.05	Fluoxetine-D6	316.2 -> 44.3	6.442	13366...	
Hydrocodone	300.2 -> 198...	2/27/2017 7:50 PM	P2...	5.083	0.75	219.1 -> 97.1	300.2 -> 128...	316.44	Hydrocodone-D6	306.2 -> 202...	5.589	187772	
Hydromorphone	286.2 -> 184...	2/27/2017 7:50 PM	P2...	5.702	238.1 -> 220...	0.84	286.2 -> 157...	0.66	Hydromorphone-D6	292.2 -> 185...	5.021	97745	
Ketamine	238.1 -> 125...	2/27/2017 7:50 PM	P2...	5.503	111	0.88	238.1 -> 220...	2.99	Ketamine-D4	242.1 -> 129...	6.066	273948	
Meproamate	219.1 -> 158...	2/27/2017 7:50 PM	P2...	5.502	6767	30.62	219.1 -> 97.1	2.99	Meproamate-D7	226.2 -> 165...	5.681	112379	
Methadone	310.2 -> 265...	2/27/2017 7:50 PM	P2...	5.502	111	0.88	310.2 -> 105...	2.05	Methadone-D9	319.3 -> 268...	6.543	12563...	
Methamphetamine	150.1 -> 91.1	2/27/2017 7:50 PM	P2...	4.740	78623	1.17	150.1 -> 119...	2.05	Methamphetamine-D11	161.2 -> 97.1	5.193	441109	
Morphine	286.2 -> 201...	2/27/2017 7:50 PM	P2...	6.397	708	0.84	286.2 -> 165...	44.74	Morphine-D6	292.2 -> 152...	4.779	10590	
Naloxone	328.2 -> 309...	2/27/2017 7:50 PM	P2...	5.502	1106	8.22	328.2 -> 211...	2.99	Naloxone-D5	333.2 -> 315...	5.807	302205	
Naltrexol	344.2 -> 326...	2/27/2017 7:50 PM	P2...	5.502	6767	30.62	344.2 -> 308...	2.99	Naltrexol-D3	347.2 -> 329...	5.257	351971	
Naltrexone	342.2 -> 324...	2/27/2017 7:50 PM	P2...	5.503	111	0.88	342.2 -> 55.3	0.66	Naltrexol-D3	347.2 -> 329...	5.257	351971	
Norbuprenorphine	414.3 -> 101...	2/27/2017 7:50 PM	P2...	6.028	45	0.84	414.3 -> 57.3	0.66	Norbuprenorphine-D3	417.3 -> 101...	6.028	43562	
Nordiazepam	271.1 -> 140...	2/27/2017 7:50 PM	P2...	6.634	149	0.42	271.1 -> 208...	2.10	Nordiazepam-D5	276.1 -> 140...	6.633	70550	
Norfentanyl	233.2 -> 84.2	2/27/2017 7:50 PM	P2...	5.333	26	0.24	233.2 -> 55.3	2.10	Norfentanyl-D5	238.2 -> 84.2	5.516	674132	
Norhydrocodone	286.2 -> 199...	2/27/2017 7:50 PM	P2...	5.245	166	1.62	286.2 -> 171...	1.30	Norhydrocodone-D3	289.2 -> 202...	5.184	83134	
Noroxycodone	302.1 -> 284...	2/27/2017 7:50 PM	P2...	4.958	735	0.56	302.1 -> 186...	0.27	Noroxycodone-D3	305.2 -> 287...	4.715	343072	
O-desmethyI-tramadol	250.2 -> 58.3	2/27/2017 7:50 PM	P2...	5.128	1086	2.21	250.2 -> 42.3	0.27	O-desmethyI-tramadol...	256.2 -> 64.3	5.107	766341	
Oxazepam	287.1 -> 240...	2/27/2017 7:50 PM	P2...	6.528	163	0.53	287.1 -> 268...	0.35	Oxazepam-D5	292.2 -> 204...	6.466	71980	
Oxycodone	316.2 -> 298...	2/27/2017 7:50 PM	P2...	5.343	322	0.53	316.2 -> 241...	0.35	Oxycodone-D6	322.1 -> 304...	5.342	306797	
Oxymorphone	302.1 -> 284...	2/27/2017 7:50 PM	P2...	4.958	971	0.87	302.1 -> 227...	50.35	Oxymorphone-D3	305.2 -> 287...	4.715	343072	
Phentemine	150.1 -> 65.2	2/27/2017 7:50 PM	P2...	5.519	3951	Infinity	150.1 -> 133...	1.08	Phentemine-D5	155.2 -> 96.2	5.315	392580	
Promethazine	285.1 -> 86.2	2/27/2017 7:50 PM	P2...	6.630	1374	1.58	285.1 -> 71.3	0.74	Promethazine-D3	288.2 -> 89.2	6.609	19943...	
Quetiapine	384.2 -> 253...	2/27/2017 7:50 PM	P2...	6.820	42	0.42	384.2 -> 221...	0.74	Quetiapine-D8	392.2 -> 226...	6.697	458710	
Sertaline	306.1 -> 158...	2/27/2017 7:50 PM	P2...	6.668	40	0.49	306.1 -> 275...	4.97	Sertaline-D3	309.1 -> 275...	6.748	365237	
Sufentanil	387.2 -> 238...	2/27/2017 7:50 PM	P2...	6.799	1648	13.75	387.2 -> 111...	2.24	Sufentanil-D5	392.2 -> 238...	6.799	983738	
Temazepam	301.1 -> 255...	2/27/2017 7:50 PM	P2...	6.446	1021	1.39	301.1 -> 283...	0.27	Temazepam-D5	306.1 -> 260...	6.607	472893	

Compound Method		p1 negative			p1 negative Results			Qualifier 1 M...			Qualif...			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.	
Tramadol	264.2 -> 58.3	2/27/2017 7:50 PM	P2-...	5.656	5130	2.11	264.2 -> 43.3	1.12	Tramadol-13C-D3	268.2 -> 58.3	5.656	10270...					
Trazodone	372.2 -> 176...	2/27/2017 7:50 PM	P2-...	6.881	2321	2.41	372.2 -> 148...	1.12	Sufentanil-D5	392.2 -> 238...	6.799	983738					
Venlafaxine	278.2 -> 58.3	2/27/2017 7:50 PM	P2-...				278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	5.979	10029...					
Zolpidem	308.2 -> 235...	2/27/2017 7:50 PM	P2-...	6.281	166	14.77	308.2 -> 263...	✓ 0.52	Zolpidem-D6	314.2 -> 235...	6.463	10637...					

Compound Method		p2 external control			p2 external control Results			ISTD Method					
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Qualifier 1 M...	S/N	Qualifier...	Name	Transition	RT	Resp.
7-aminoimipramine	284.1 -> 135...	2/27/2017 8:20 PM	P2...	5.988	1728	5.20	284.1 -> 93.2	12.48	7-aminoimipramine-D7	291.2 -> 138...	5.783	250981	
alpha-hydroxymidazolam	342.1 -> 324...	2/27/2017 8:20 PM	P2...	6.589	133	0.66	342.1 -> 203...	1.76	alpha-hydroxymidazolam...	346.1 -> 328...	6.529	412960	
Amiripryline	278.2 -> 91.2	2/27/2017 8:20 PM	P2...	6.721	1642	0.91	278.2 -> 105...	0.83	Amiripryline-D3	281.2 -> 91.2	6.659	498610	
Amoxapine	314.1 -> 271...	2/27/2017 8:20 PM	P2...	6.553	531	150.53	314.1 -> 193...	1439.64	Amiripryline-D3	281.2 -> 91.2	6.659	498610	
Benzylecgonine	290.1 -> 168...	2/27/2017 8:20 PM	P2...	5.496	38	1.45	290.1 -> 105...	1.63	Benzylecgonine-D8	298.2 -> 171...	5.393	5761	
Carbamazepine	237.1 -> 193...	2/27/2017 8:20 PM	P2...	6.382	314	0.92	237.1 -> 194...		Carbamazepine-13C6	243.1 -> 200...	6.198	12537...	
Chlordiazepoxide	300.1 -> 227...	2/27/2017 8:20 PM	P2...	6.960	2926	25.62	300.1 -> 282...	0.28	Chlordiazepoxide-D5	305.1 -> 286...	6.657	219179	
Clonipramine	315.2 -> 86.2	2/27/2017 8:20 PM	P2...	6.977	106	2.87	315.2 -> 58.3...	0.43	Clonipramine-D3	318.2 -> 89.2	6.917	19003...	
Cocaine	304.2 -> 182...	2/27/2017 8:20 PM	P2...	5.863	570	6.67	304.2 -> 105...	0.53	Cocaine-D3	307.2 -> 185...	5.862	720621	
Desipramine	267.2 -> 72.3	2/27/2017 8:20 PM	P2...	6.561	1879	3.03	267.2 -> 44.3...	Infinity	Desipramine-D3	270.2 -> 75.3	6.540	13142...	
Doxepin	280.2 -> 107...	2/27/2017 8:20 PM	P2...	6.377	339	0.61	280.2 -> 77.2...		Doxepin-D3	283.2 -> 107...	6.376	582603	
Estazolam	295.1 -> 267...	2/27/2017 8:20 PM	P2...	6.597	96	0.70	295.1 -> 205...	6.12	Estazolam-D5	300.1 -> 272...	6.474	318103	
Flunitrazepam	314.1 -> 288...	2/27/2017 8:20 PM	P2...	6.573	1604	5.90	314.1 -> 239...	0.51	Flunitrazepam-D7	321.1 -> 245...	6.512	17484	
Flurazepam	388.2 -> 315...	2/27/2017 8:20 PM	P2...	6.284	69	0.44	388.2 -> 317...	0.32	Zopiclone-D4	393.1 -> 244...	6.446	138277	
Imipramine	281.2 -> 86.2	2/27/2017 8:20 PM	P2...	6.599	3896	43.82	281.2 -> 58.3...	1.60	Imipramine-D3	284.2 -> 61.3	6.618	10471...	
Levamisole	205.1 -> 91.2	2/27/2017 8:20 PM	P2...	5.427	276	1.98	205.1 -> 178...	0.18	Cocaine-D3	307.2 -> 185...	5.862	720621	
Meprotline	278.2 -> 91.2	2/27/2017 8:20 PM	P2...	6.459	1203	1.23	278.2 -> 117...		Meprotline-D4	252.2 -> 224...	5.912	300081	
MDEA	180.1 -> 163...	2/27/2017 8:20 PM	P2...	5.470	45	Infinity	180.1 -> 105...	0.42	MDEA-D5	185.1 -> 168...	5.185	279234	
MDEA	208.1 -> 163...	2/27/2017 8:20 PM	P2...				208.1 -> 105...		MDEA-D6	214.2 -> 166...	5.467	555662	
MDEA	194.1 -> 163...	2/27/2017 8:20 PM	P2...				194.1 -> 105...		MDEA-D6	200.2 -> 166...	5.325	49548	
Mepiridine	248.2 -> 220...	2/27/2017 8:20 PM	P2...	5.912	543809	814.58	248.2 -> 174...	56508...	Mepiridine-D4	252.2 -> 224...	5.912	300081	
Methylphenidate	234.2 -> 84.2	2/27/2017 8:20 PM	P2...	5.730	595	0.76	234.2 -> 56.3...	17.91	Mepiridine-D4	252.2 -> 224...	5.912	300081	
Metoprolol	268.2 -> 116...	2/27/2017 8:20 PM	P2...	5.643	83	2.88	268.2 -> 56.3...	3.87	Mepiridine-D4	252.2 -> 224...	5.912	300081	
Midazolam	326.1 -> 223...	2/27/2017 8:20 PM	P2...	6.653	24	0.38	326.1 -> 249...		Midazolam-D4	330.1 -> 295...	6.692	405251	
Mirtazapine	266.2 -> 195...	2/27/2017 8:20 PM	P2...				266.2 -> 72.3...		Midazolam-D4	330.1 -> 295...	6.692	405251	
Mirtazapine	399.2 -> 174...	2/27/2017 8:20 PM	P2...				399.2 -> 238...		Carbamazepine-13C6	243.1 -> 200...	6.198	12537...	
Normeperidine	234.1 -> 42.3	2/27/2017 8:20 PM	P2...	5.710	49990	102.91	234.1 -> 160...	1.24	Normeperidine-D4	238.2 -> 164...	5.791	310955	
Normeperidine	326.2 -> 44.3	2/27/2017 8:20 PM	P2...	6.571	100	1.02	326.2 -> 252...		Normeperidine-D5	331.2 -> 44.3	6.388	150981	
Normepoxyphene	264.2 -> 91.2	2/27/2017 8:20 PM	P2...	6.623	6752	7.65	264.2 -> 233...	3.83	Normepoxyphene-D3	267.2 -> 233...	6.581	511253	
Normepoxyphene	294.2 -> 184...	2/27/2017 8:20 PM	P2...	5.659	32	0.91	294.2 -> 212...		Pentazocine-13C3	289.2 -> 72.3	5.865	422814	
Ornasetron	286.2 -> 218...	2/27/2017 8:20 PM	P2...				286.2 -> 41.3...		Pentazocine-13C3	289.2 -> 72.3	5.865	422814	
Pentazocine	286.2 -> 218...	2/27/2017 8:20 PM	P2...				286.2 -> 41.3...		Pentazocine-13C3	289.2 -> 72.3	5.865	422814	
Phenazepam	349.0 -> 206...	2/27/2017 8:20 PM	P2...	6.508	1736	202.93	349.0 -> 183...		Phenazepam-D4	353.0 -> 183...	6.588	16805	
Phencyclidine	244.2 -> 86.2	2/27/2017 8:20 PM	P2...	6.177	162	61.89	244.2 -> 91.1...		Phencyclidine-D5	249.2 -> 86.2	6.095	960732	
Phenylethylamine	253.1 -> 104...	2/27/2017 8:20 PM	P2...	6.279	261	0.48	253.1 -> 182...		Phenylethylamine-D10	263.2 -> 192...	6.115	18582	
Praxepam	325.1 -> 271...	2/27/2017 8:20 PM	P2...	7.118	41	0.93	325.1 -> 140...		Praxepam-D5	330.1 -> 276...	7.014	10118...	
Praxepam	325.1 -> 271...	2/27/2017 8:20 PM	P2...	7.118	41	0.93	325.1 -> 140...		Praxepam-D5	330.1 -> 276...	7.014	10118...	
Propoxyphene	219.1 -> 91.2	2/27/2017 8:20 PM	P2...	5.406	143	0.33	219.1 -> 162...		Propoxyphene-D11	330.1 -> 276...	7.014	10118...	
Propoxyphene	340.2 -> 58.3	2/27/2017 8:20 PM	P2...	6.590	167	0.55	340.2 -> 266...		Propoxyphene-D11	351.3 -> 277...	6.447	279226	
Propoxyphene	340.2 -> 58.3	2/27/2017 8:20 PM	P2...	6.590	167	0.55	340.2 -> 266...		Propoxyphene-D11	351.3 -> 277...	6.447	279226	
Proprylthiopyline	264.2 -> 155...	2/27/2017 8:20 PM	P2...	6.562	180	5.61	264.2 -> 161...		Nortriptyline-D3	267.2 -> 233...	6.581	511253	
Pseudoephedrine	166.1 -> 148...	2/27/2017 8:20 PM	P2...	4.823	173	0.36	166.1 -> 133...	0.30	Pseudoephedrine-D3	169.1 -> 151...	4.822	434587	
Tapentadol	222.2 -> 107...	2/27/2017 8:20 PM	P2...	5.629	252	0.42	222.2 -> 121...	0.18	Tapentadol-D3	225.2 -> 107...	5.649	795447	
Trimipramine	295.2 -> 100...	2/27/2017 8:20 PM	P2...	6.800	48	1.22	295.2 -> 58.3...	2.71	Trimipramine-D3	298.2 -> 103...	6.698	20700...	
Verapamil	455.3 -> 165...	2/27/2017 8:20 PM	P2...	6.384	34	0.41	455.3 -> 150...		Trimipramine-D3	298.2 -> 103...	6.698	20700...	
Zaleplon	306.1 -> 236...	2/27/2017 8:20 PM	P2...				306.1 -> 264...		Zaleplon-D4	310.2 -> 240...	6.310	240024	
Zopiclone	389.1 -> 244...	2/27/2017 8:20 PM	P2...	6.344	80	0.83	389.1 -> 216...		Zopiclone-D4	393.1 -> 244...	6.446	138277	

Compound Method		p2 cal 1b			p2 cal 1b Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Qualifier 1 M...	S/N	Name	Transition	RT	Resp.	
7-aminoflunitrazepam	284.1 -> 135...	2/27/2017 7:41 PM	P2-A1	5.784	50283	353.98	284.1 -> 93.2	2675.61	7-aminoflunitrazepam-D7	291.2 -> 138...	5.783	236554	
alpha-hydroxymidazolam	342.1 -> 324...	2/27/2017 7:41 PM	P2-A1	6.529	73740	180.12	342.1 -> 203...	164.72	alpha-hydroxymidazolam-	346.1 -> 328...	6.528	384056	
Amitypyline	278.2 -> 91.2	2/27/2017 7:41 PM	P2-A1	6.661	183494	47.22	278.2 -> 105...	Infinity	Amitypyline-D3	281.2 -> 91.2	6.659	494909	
Amoxapine	314.1 -> 271...	2/27/2017 7:41 PM	P2-A1	6.634	79000	259.90	314.1 -> 193...	5887.40	Amitypyline-D3	281.2 -> 91.2	6.659	494909	
Benzoylcegonine	290.1 -> 168...	2/27/2017 7:41 PM	P2-A1	5.394	18602	172.31	290.1 -> 105...	36.76	Benzoylcegonine-D8	288.2 -> 171...	5.373	5900	
Carbamazepine	237.1 -> 193...	2/27/2017 7:41 PM	P2-A1	6.219	25051	15.12	237.1 -> 194...	Infinity	Carbamazepine-13C6	243.1 -> 200...	6.198	12156...	
Chlordiazepoxide	300.1 -> 227...	2/27/2017 7:41 PM	P2-A1	6.917	22990	5099.62	300.1 -> 282...	27.73	Chlordiazepoxide-D5	305.1 -> 286...	6.656	197267	
Clonipramine	315.2 -> 86.2	2/27/2017 7:41 PM	P2-A1	6.977	388650	Infinity	315.2 -> 58.3	Infinity	Clonipramine-D3	318.2 -> 89.2	6.897	19604...	
Cocaine	304.2 -> 182...	2/27/2017 7:41 PM	P2-A1	5.883	180873	Infinity	304.2 -> 105...	Infinity	Cocaine-D3	307.2 -> 185...	5.862	681473	
Desipramine	267.2 -> 72.3	2/27/2017 7:41 PM	P2-A1	6.541	288102	2088.35	267.2 -> 44.3	Infinity	Desipramine-D3	270.2 -> 75.3	6.540	13169...	
Doxepin	280.2 -> 107...	2/27/2017 7:41 PM	P2-A1	6.377	119139	Infinity	280.2 -> 77.2	Infinity	Doxepin-D3	283.2 -> 107...	6.376	612285	
Estazolam	295.1 -> 267...	2/27/2017 7:41 PM	P2-A1	6.475	58209	672.14	295.1 -> 205...	218.63	Estazolam-D5	300.1 -> 272...	6.474	284423	
Flunitrazepam	314.1 -> 288...	2/27/2017 7:41 PM	P2-A1	6.513	59280	Infinity	314.1 -> 239...	2946.02	Flunitrazepam-D7	321.1 -> 245...	6.491	15977	
Flurazepam	388.2 -> 315...	2/27/2017 7:41 PM	P2-A1	6.486	164457	46.83	388.2 -> 317...	84.49	Zopiclone-D4	393.1 -> 244...	6.446	135092	
Imipramine	281.2 -> 86.2	2/27/2017 7:41 PM	P2-A1	6.619	393417	531.74	281.2 -> 58.3	Infinity	Imipramine-D3	284.2 -> 61.3	6.618	10137...	
Levamisole	205.1 -> 91.2	2/27/2017 7:41 PM	P2-A1	5.570	53217	Infinity	205.1 -> 178...	46443...	Cocaine-D3	307.2 -> 185...	5.862	681473	
Maprotiline	278.2 -> 91.2	2/27/2017 7:41 PM	P2-A1	6.661	140615	Infinity	278.2 -> 117...	Infinity	Meperidine-D4	282.2 -> 224...	5.912	337924	
MDEA	180.1 -> 163...	2/27/2017 7:41 PM	P2-A1	5.185	52382	Infinity	180.1 -> 105...	Infinity	MDEA-D5	185.1 -> 168...	5.165	268650	
MDEA	208.1 -> 163...	2/27/2017 7:41 PM	P2-A1	5.447	107076	Infinity	208.1 -> 105...	Infinity	MDEA-D6	214.2 -> 166...	5.447	571235	
MDMA	194.1 -> 163...	2/27/2017 7:41 PM	P2-A1	5.326	84121	984.42	194.1 -> 105...	157.59	MDMA-D6	200.2 -> 166...	5.305	47359	
Meperidine	248.2 -> 220...	2/27/2017 7:41 PM	P2-A1	5.912	64032	213.42	248.2 -> 174...	6931.06	Meperidine-D4	282.2 -> 224...	5.912	337924	
Methylphenidate	234.2 -> 84.2	2/27/2017 7:41 PM	P2-A1	5.771	266608	Infinity	234.2 -> 56.3	Infinity	Meperidine-D4	282.2 -> 224...	5.912	337924	
Metoprolol	268.2 -> 116...	2/27/2017 7:41 PM	P2-A1	5.622	26579	10239...	268.2 -> 56.3	78.43	Meperidine-D4	282.2 -> 224...	5.912	337924	
Midazolam	326.1 -> 223...	2/27/2017 7:41 PM	P2-A1	6.693	24585	122.78	326.1 -> 249...	43.34	Midazolam-D4	330.1 -> 295...	6.692	409063	
Mirtazapine	266.2 -> 195...	2/27/2017 7:41 PM	P2-A1	6.461	214972	239.03	266.2 -> 72.3	130.97	Midazolam-D4	330.1 -> 295...	6.692	409063	
Mirtazapine	399.2 -> 174...	2/27/2017 7:41 PM	P2-A1	6.486	61236	83.54	399.2 -> 238...	2414.93	Carbamazepine-13C6	243.1 -> 200...	6.198	12156...	
Normeperidine	234.1 -> 42.3	2/27/2017 7:41 PM	P2-A1	5.792	80497	24047...	234.1 -> 160...	201.58	Normeperidine-D4	238.2 -> 164...	5.791	318804	
Norpropoxyphene	326.2 -> 44.3	2/27/2017 7:41 PM	P2-A1	6.389	38138	1207.65	326.2 -> 252...	134.15	Norpropoxyphene-D5	331.2 -> 44.3	6.388	169177	
Nortriptyline	264.2 -> 91.2	2/27/2017 7:41 PM	P2-A1	6.583	142080	Infinity	264.2 -> 233...	Infinity	Nortriptyline-D3	267.2 -> 233...	6.581	408521	
Ondansetron	294.2 -> 184...	2/27/2017 7:41 PM	P2-A1	6.149	96061	66.84	294.2 -> 212...	52.56	Pentazocine-13C3	289.2 -> 72.3	5.865	435149	
Pentazocine	286.2 -> 218...	2/27/2017 7:41 PM	P2-A1	5.866	114277	18389...	286.2 -> 41.3	396.35	Pentazocine-13C3	289.2 -> 72.3	5.865	435149	
Phenazepam	349.0 -> 206...	2/27/2017 7:41 PM	P2-A1	6.589	47291	10207...	349.0 -> 183...	151.00	Phenazepam-D4	353.0 -> 183...	6.568	15781	
Phencyclidine	244.2 -> 86.2	2/27/2017 7:41 PM	P2-A1	6.096	198647	36.41	244.2 -> 91.1	123.74	Phencyclidine-D5	249.2 -> 86.2	6.095	10144...	
Phenylethylamine	253.1 -> 104...	2/27/2017 7:41 PM	P2-A1	6.115	3978	Infinity	253.1 -> 182...	21.37	Phenylethylamine-D10	263.2 -> 192...	6.095	15706	
Praxepam	325.1 -> 271...	2/27/2017 7:41 PM	P2-A1	7.016	221667	1523.84	325.1 -> 140...	480.51	Praxepam-D5	330.1 -> 276...	7.014	990955	
Primidone	219.1 -> 91.2	2/27/2017 7:41 PM	P2-A1	5.466	11759	111.69	219.1 -> 162...	11.81	Praxepam-D5	330.1 -> 276...	7.014	990955	
Propoxyphene	340.2 -> 58.3	2/27/2017 7:41 PM	P2-A1	6.489	231893	529.52	340.2 -> 266...	261.18	Propoxyphene-D11	351.3 -> 277...	6.447	278615	
Protriptyline	264.2 -> 155...	2/27/2017 7:41 PM	P2-A1	6.481	677896	1722.17	264.2 -> 161...	0.74	Nortriptyline-D3	267.2 -> 233...	6.581	408521	
Pseudoephedrine	166.1 -> 148...	2/27/2017 7:41 PM	P2-A1	4.803	976268	Infinity	166.1 -> 133...	469.59	Pseudoephedrine-D3	169.1 -> 151...	4.782	461976	
Tapentadol	222.2 -> 107...	2/27/2017 7:41 PM	P2-A1	5.650	150800	97.44	222.2 -> 121...	Infinity	Tapentadol-D3	225.2 -> 107...	5.649	795321	
Trimipramine	295.2 -> 100...	2/27/2017 7:41 PM	P2-A1	6.718	441167	119.84	295.2 -> 58.3	Infinity	Trimipramine-D3	288.2 -> 103...	6.698	21088...	
Verapamil	455.3 -> 165...	2/27/2017 7:41 PM	P2-A1	6.465	232821	31736...	455.3 -> 150...	7982.37	Trimipramine-D3	298.2 -> 103...	6.698	21088...	
Zaleplon	306.1 -> 236...	2/27/2017 7:41 PM	P2-A1	6.310	65704	238.08	306.1 -> 264...	105.08	Zaleplon-D4	310.2 -> 240...	6.310	238591	
Zopiclone	389.1 -> 244...	2/27/2017 7:41 PM	P2-A1	6.446	25838	Infinity	389.1 -> 216...	Infinity	Zopiclone-D4	393.1 -> 244...	6.446	135092	

Compound Method		p2 negative				p2 negative Results				ISTD Method			
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Qualifier 1 M...	S/N	Qualif...	Name	Transition	RT	Resp.
7-amino-flunitrazepam	284.1 -> 135...	2/27/2017 8:00 PM	P2...	5.968	1316	4.26	284.1 -> 93.2	1.71		7-amino-flunitrazepam-D7	291.2 -> 138...	5.783	236719
alpha-hydroxymidazolam	342.1 -> 324...	2/27/2017 8:00 PM	P2...	6.569	216	2.02	342.1 -> 203...	3.43		alpha-hydroxymidazolam...	346.1 -> 328...	6.529	411288
Amtripyline	278.2 -> 91.2	2/27/2017 8:00 PM	P2...	6.742	963	0.47	278.2 -> 105...	165.52		Amtripyline-D3	281.2 -> 91.2	6.659	495449
Amoxapine	314.1 -> 271...	2/27/2017 8:00 PM	P2...	6.533	748	4.87	314.1 -> 193...	40.56		Amtripyline-D3	281.2 -> 91.2	6.659	495449
Benzoylcegonine	290.1 -> 168...	2/27/2017 8:00 PM	P2...	5.598	28	0.35	290.1 -> 105...	0.87		Benzoylcegonine-D8	298.2 -> 171...	5.393	6104
Carbamazepine	237.1 -> 193...	2/27/2017 8:00 PM	P2...			237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.198	12610...
Chlordiazepoxide	300.1 -> 227...	2/27/2017 8:00 PM	P2...	6.960	3752	14.54	300.1 -> 282...			Chlordiazepoxide-D5	305.1 -> 286...	6.657	225931
Clomipramine	315.2 -> 86.2	2/27/2017 8:00 PM	P2...	6.897	159	2.59	315.2 -> 58.3			Clomipramine-D3	318.2 -> 89.2	6.897	19626...
Cocaine	304.2 -> 182...	2/27/2017 8:00 PM	P2...	5.883	1017	1.70	304.2 -> 105...			Cocaine-D3	307.2 -> 185...	5.862	726395
Desipramine	267.2 -> 72.3	2/27/2017 8:00 PM	P2...	6.541	1960	434.08	267.2 -> 44.3	615.74		Desipramine-D3	270.2 -> 75.3	6.540	13528...
Doxepin	280.2 -> 107...	2/27/2017 8:00 PM	P2...			280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.376	599638
Estazolam	295.1 -> 267...	2/27/2017 8:00 PM	P2...	6.557	108	0.63	295.1 -> 205...	1.03		Estazolam-D5	300.1 -> 272...	6.474	314256
Flunitrazepam	314.1 -> 268...	2/27/2017 8:00 PM	P2...	6.736	70	0.46	314.1 -> 239...	0.69		Flunitrazepam-D7	321.1 -> 245...	6.491	15630
Flurazepam	388.2 -> 315...	2/27/2017 8:00 PM	P2...	6.608	259	0.38	388.2 -> 317...			Zopiclone-D4	393.1 -> 244...	6.446	148363
Imipramine	281.2 -> 86.2	2/27/2017 8:00 PM	P2...	6.639	1904	5.76	281.2 -> 58.3			Imipramine-D3	284.2 -> 61.3	6.618	10101...
Levamisole	205.1 -> 91.2	2/27/2017 8:00 PM	P2...	5.366	370	0.21	205.1 -> 178...	0.44		Cocaine-D3	307.2 -> 185...	5.862	726395
Maprotiline	278.2 -> 91.2	2/27/2017 8:00 PM	P2...	6.580	2282	0.93	278.2 -> 117...	0.38		Meperidine-D4	252.2 -> 224...	5.912	318922
MDA	180.1 -> 163...	2/27/2017 8:00 PM	P2...	5.327	107	0.46	180.1 -> 105...	0.52		MDA-D5	185.1 -> 168...	5.185	276654
MDEA	208.1 -> 163...	2/27/2017 8:00 PM	P2...	5.590	82	0.55	208.1 -> 105...	117.47		MDEA-D6	214.2 -> 166...	5.447	569200
MDMA	194.1 -> 163...	2/27/2017 8:00 PM	P2...			194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.305	47758
Meperidine	248.2 -> 220...	2/27/2017 8:00 PM	P2...	5.728	105	0.91	248.2 -> 174...	0.50		Meperidine-D4	252.2 -> 224...	5.912	318922
Methylphenidate	234.2 -> 84.2	2/27/2017 8:00 PM	P2...	5.792	47	1.07	234.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.912	318922
Mezoprolol	268.2 -> 116...	2/27/2017 8:00 PM	P2...			268.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.912	318922
Midazolam	326.1 -> 223...	2/27/2017 8:00 PM	P2...	6.612	35	0.85	326.1 -> 249...	6.98		Midazolam-D4	330.1 -> 295...	6.692	408887
Mirazapine	266.2 -> 195...	2/27/2017 8:00 PM	P2...	6.440	242	0.82	266.2 -> 72.3	0.38		Midazolam-D4	330.1 -> 295...	6.692	408887
Mirtazapine	399.2 -> 174...	2/27/2017 8:00 PM	P2...	6.546	43	0.76	399.2 -> 238...	0.90		Carbamazepine-13C6	243.1 -> 200...	6.198	12610...
Normeperidine	234.1 -> 42.3	2/27/2017 8:00 PM	P2...	5.812	54	0.39	234.1 -> 160...	0.65		Normeperidine-D4	238.2 -> 164...	5.791	310205
Norpropoxyphene	326.2 -> 44.3	2/27/2017 8:00 PM	P2...	6.470	28	0.37	326.2 -> 252...	0.89		Norpropoxyphene-D5	331.2 -> 44.3	6.388	147454
Nortriptyline	264.2 -> 91.2	2/27/2017 8:00 PM	P2...	6.623	7573	8.19	264.2 -> 233...	2.05		Nortriptyline-D3	267.2 -> 233...	6.581	521450
Ondansetron	294.2 -> 184...	2/27/2017 8:00 PM	P2...			294.2 -> 212...				Pentazocine-13C3	289.2 -> 72.3	5.865	447600
Pentazocine	286.2 -> 218...	2/27/2017 8:00 PM	P2...			286.2 -> 41.3				Pentazocine-13C3	289.2 -> 72.3	5.865	447600
Phenazepam	349.0 -> 206...	2/27/2017 8:00 PM	P2...	6.528	2226	27.73	349.0 -> 183...			Phenazepam-D4	353.0 -> 183...	6.568	17018
Phencyclidine	244.2 -> 86.2	2/27/2017 8:00 PM	P2...	5.953	574	1.96	244.2 -> 91.1	3.06		Phencyclidine-D5	249.2 -> 86.2	6.095	984922
Phenylethanolamine	253.1 -> 104...	2/27/2017 8:00 PM	P2...			253.1 -> 182...				Phenylethanolamine-D10	263.2 -> 192...	6.095	17417
Praxepam	325.1 -> 271...	2/27/2017 8:00 PM	P2...	7.198	11	1.65	325.1 -> 140...	0.70		Praxepam-D5	330.1 -> 276...	7.014	10186...
Primidone	219.1 -> 91.2	2/27/2017 8:00 PM	P2...	5.629	1821	2.45	219.1 -> 162...			Propoxyphene-D5	330.1 -> 276...	7.014	10186...
Propoxyphene	340.2 -> 58.3	2/27/2017 8:00 PM	P2...	6.449	77	0.53	340.2 -> 266...			Propoxyphene-D11	351.3 -> 277...	6.447	294989
Protriptyline	264.2 -> 155...	2/27/2017 8:00 PM	P2...	6.481	86	0.61	264.2 -> 161...			Nortriptyline-D3	267.2 -> 233...	6.581	521450
Pseudoephedrine	166.1 -> 148...	2/27/2017 8:00 PM	P2...	4.762	708	0.52	166.1 -> 133...			Pseudoephedrine-D3	169.1 -> 151...	4.822	458457
Tapentadol	222.2 -> 107...	2/27/2017 8:00 PM	P2...			222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.649	793610
Trimipramine	295.2 -> 100...	2/27/2017 8:00 PM	P2...	6.597	386	1.25	295.2 -> 58.3	2.78		Trimipramine-D3	298.2 -> 103...	6.698	20512...
Verapamil	455.3 -> 165...	2/27/2017 8:00 PM	P2...			455.3 -> 150...				Trimipramine-D3	298.2 -> 103...	6.698	20512...
Zaleplon	306.1 -> 236...	2/27/2017 8:00 PM	P2...			306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.310	248327
Zopiclone	389.1 -> 244...	2/27/2017 8:00 PM	P2...	6.080	224	1.03	389.1 -> 216...			Zopiclone-D4	393.1 -> 244...	6.446	148363

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

Extraction Date: 2-27-17

Analyst: Anne Nord

PRE-ANALYTIC

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

- 1. Ensure all solutions are within expiration date.
 - Mobile Phase A: **10mM Amm Formate**
 - Mobile Phase B: **0.1% FA in MeOH**
 - Blank/Negative Blood: **Lot 321632-1**
 - Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
 - **0.1% Formic Acid in water**
 - **MTBE**
 - **Hexane**
- 2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.
- 3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.
- 4. Create worklist. Data path name: 2-27-17 blood screen AM 25-26

ANALYTIC

- 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- 2. Add **1000 µL blood** to wells of analytical (standards) plate. Mix via aspirate and dispense.
 - Blank blood for locations containing standards/QCs and internal standards
 - Sample blood for locations containing only internal standards
- 3. Place on shaking incubator at ambient temp., **900rpm for 15 minutes**. *Shaker ID 66759*
- 4. Pipette **500µL 0.1% formic acid** to all wells of standards plate.
- 5. Place on shaking incubator at ambient temp., **900rpm for 15 minutes**.
- 6. Transfer **800µL of blood+acid** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Pressure Manifold ID 66729
Wait 5 min.
- 8. Add **2.25mL MTBE** and allow to flow under gravity for 5 minutes. **(add in 3 increments of 750uL)**
- 9. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 10. Add **2.25mL Hexane** and allow to flow under gravity for 5 minutes. **(add in 3 increments of 750uL)**
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID 66819*
- 13. Reconstitute in **100 µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST-ANALYTIC

- 1. Open quantitation software and create a new quantitation batch. Batch name: 022717 cann screen
- 2. Make any necessary integration changes.
- 3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% retention time of calibrators?
- 4. Did QCs pass for each analyte? (Y)/N _____
- 5. Central File Packet to include: LIMS Worklist: Method Checklist Calibration and Control Reports

Comments:

ISP FORENSICS - Cd'A

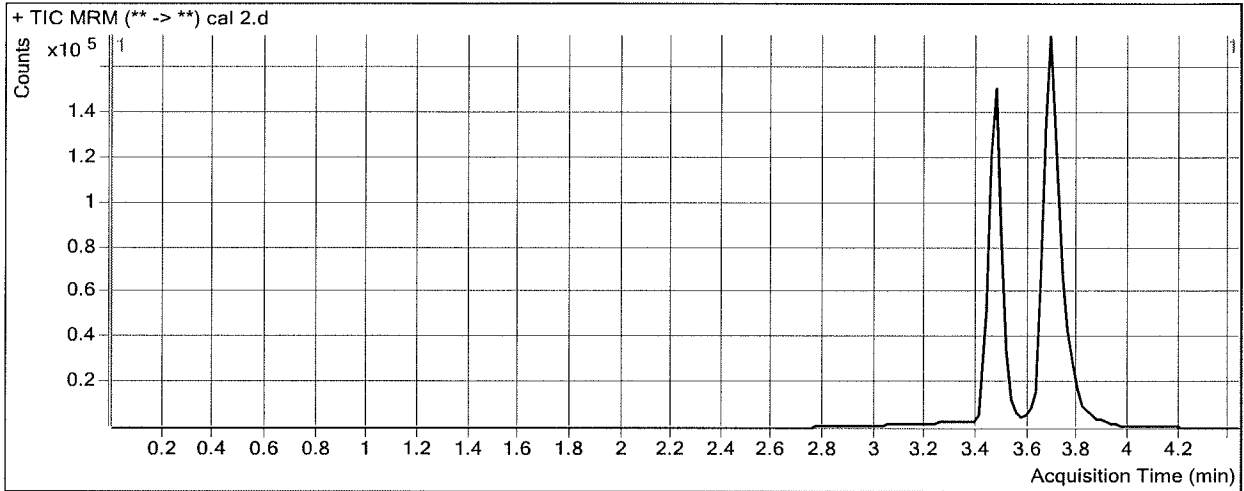
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:09 **Data File** cal 2.d
Sample Type Calibration **Sample Name** cal 2
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-B1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.446	17810	80372	0.2216	5.0598
THC-OH	3.473	22953	415716	0.0552	4.9912
THC	3.760	1272	23587	0.0539	5.7037

ISP FORENSICS - Cd'A

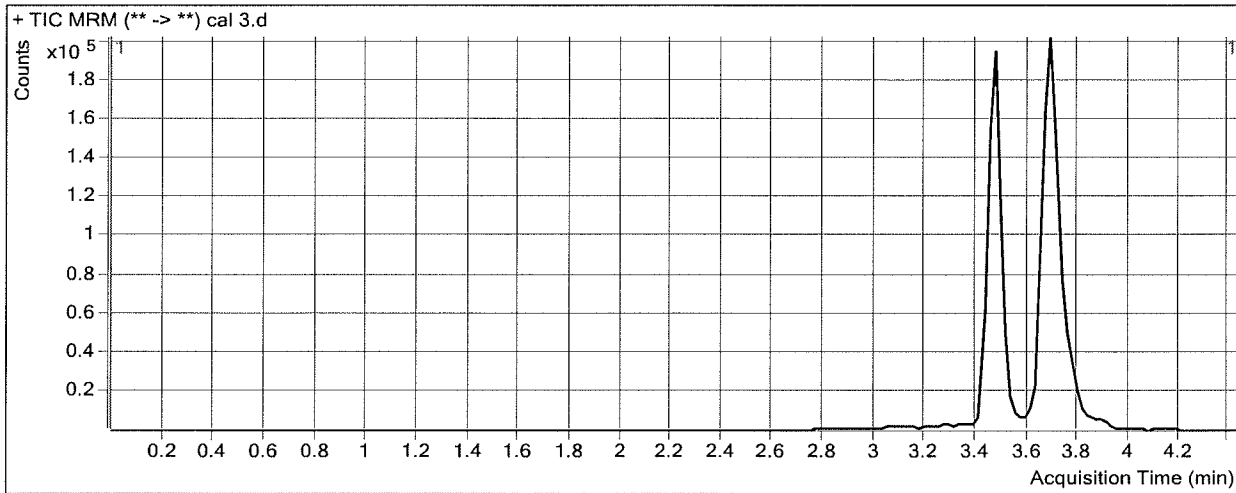
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:15 **Data File** cal 3.d
Sample Type Calibration **Sample Name** cal 3
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.466	33795	102051	0.3312	10.7466
THC-OH	3.473	56063	509161	0.1101	10.2930
THC	3.760	2889	28075	0.1029	10.0381

ISP FORENSICS - Cd'A

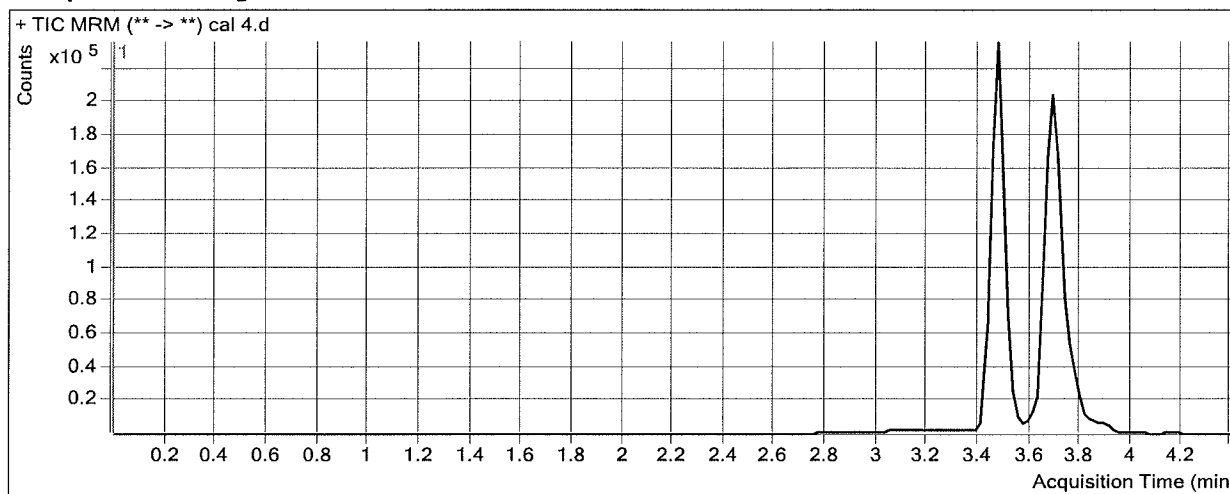
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:22 **Data File** cal 4.d
Sample Type Calibration **Sample Name** cal 4
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-D1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.486	61144	108570	0.5632	22.7892
THC-OH	3.473	135696	530733	0.2557	24.3514
THC	3.760	7481	30141	0.2482	22.9037

ISP FORENSICS - Cd'A

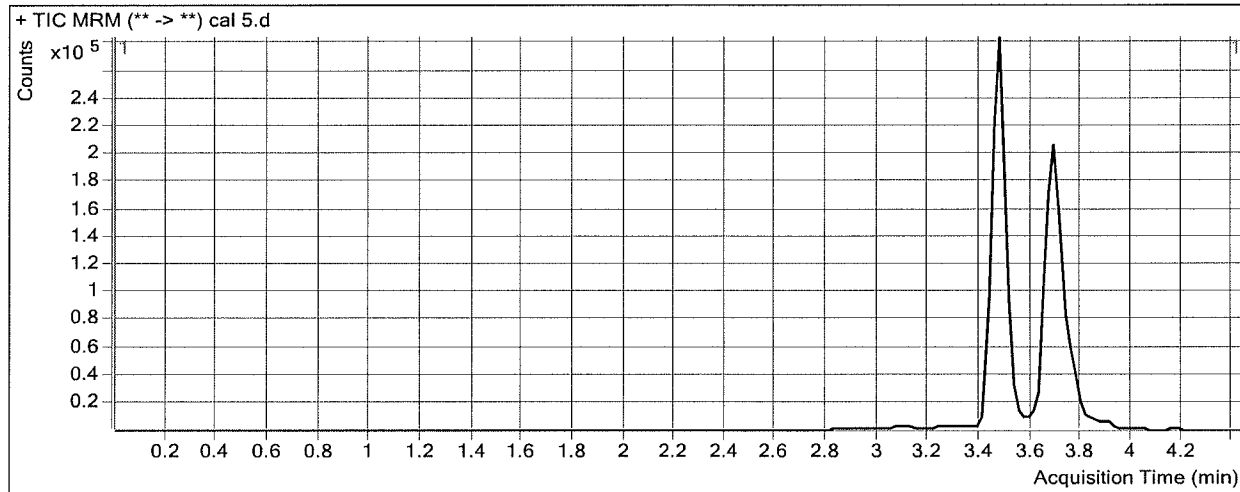
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:28 **Data File** cal 5.d
Sample Type Calibration **Sample Name** cal 5
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.486	112866	109441	1.0313	47.0868
THC-OH	3.473	269182	538174	0.5002	47.9647
THC	3.760	16184	32329	0.5006	45.2492

ISP FORENSICS - Cd'A

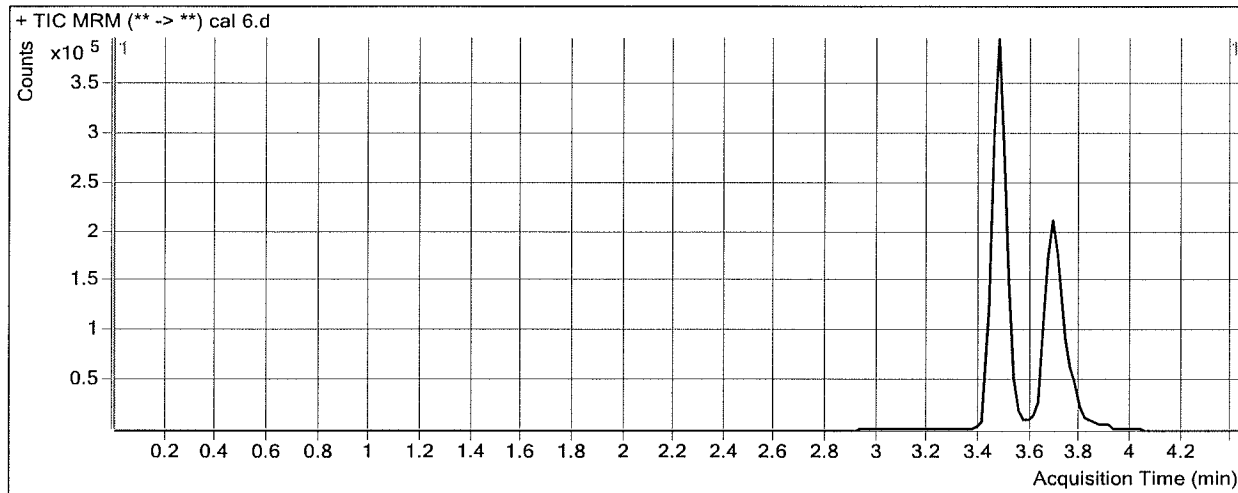
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:35 **Data File** cal 6.d
Sample Type Calibration **Sample Name** cal 6
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-F1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.486	216020	98722	2.1882	107.1327
THC-OH	3.473	571009	523911	1.0899	104.9184
THC	3.760	34784	30577	1.1376	101.6482

ISP FORENSICS - Cd'A

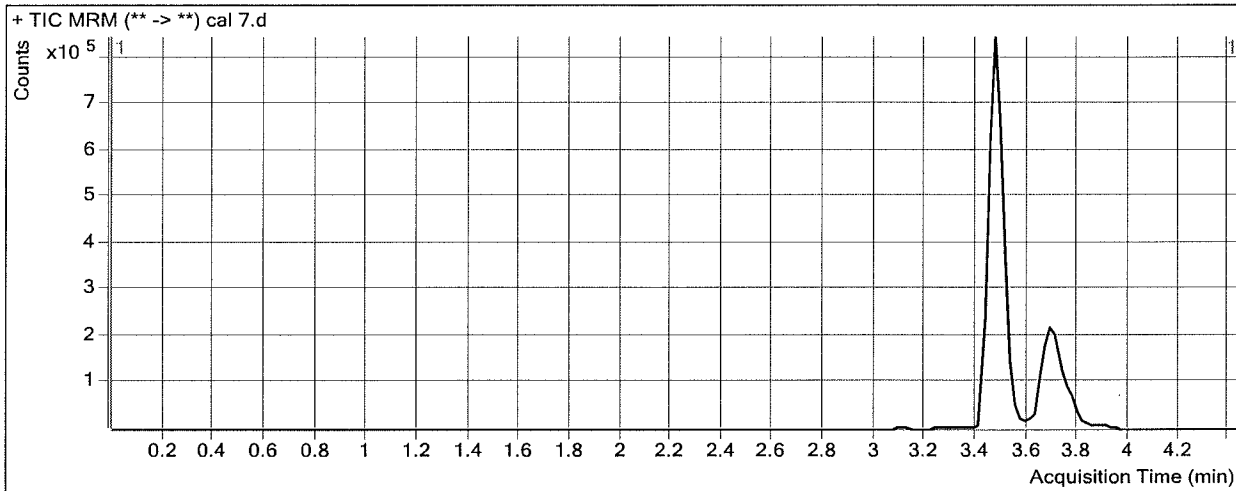
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:48 **Data File** cal 7.d
Sample Type Calibration **Sample Name** cal 7
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.486	597198	122214	4.8865	247.1848
THC-OH	3.473	1663781	648383	2.5660	247.4813
THC	3.760	105778	36940	2.8635	254.4570

ISP FORENSICS - Cd'A

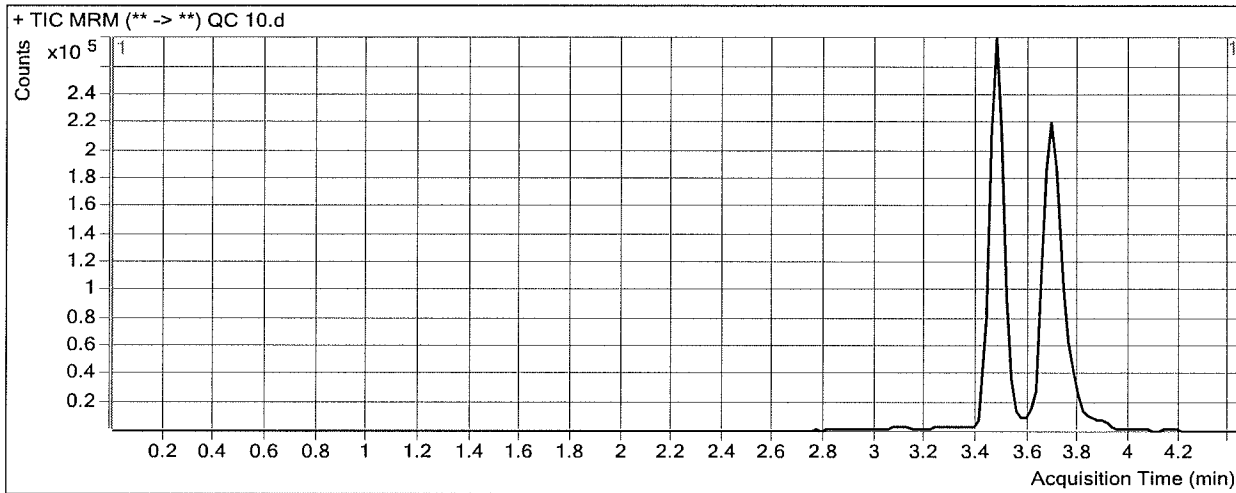
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:55 **Data File** QC 10.d
Sample Type QC **Sample Name** QC 10
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-A3 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.466	57614	162706	0.3541	11.9377
THC-OH	3.473	79499	781668	0.1017	9.4813
THC	3.760	3211	34337	0.0935	9.2087

ISP FORENSICS - Cd'A

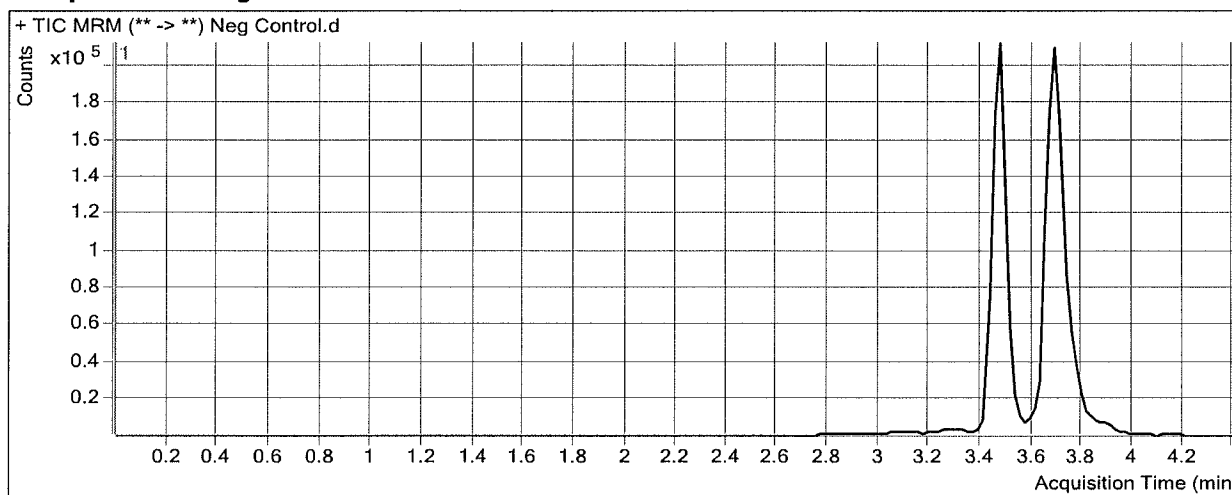
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 14:42 **Data File** Neg Control.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-a2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen negative blood lot 32632-1

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.446	20682	130550	0.1584	1.7810 <i>LS</i>

ISP FORENSICS - Cd'A

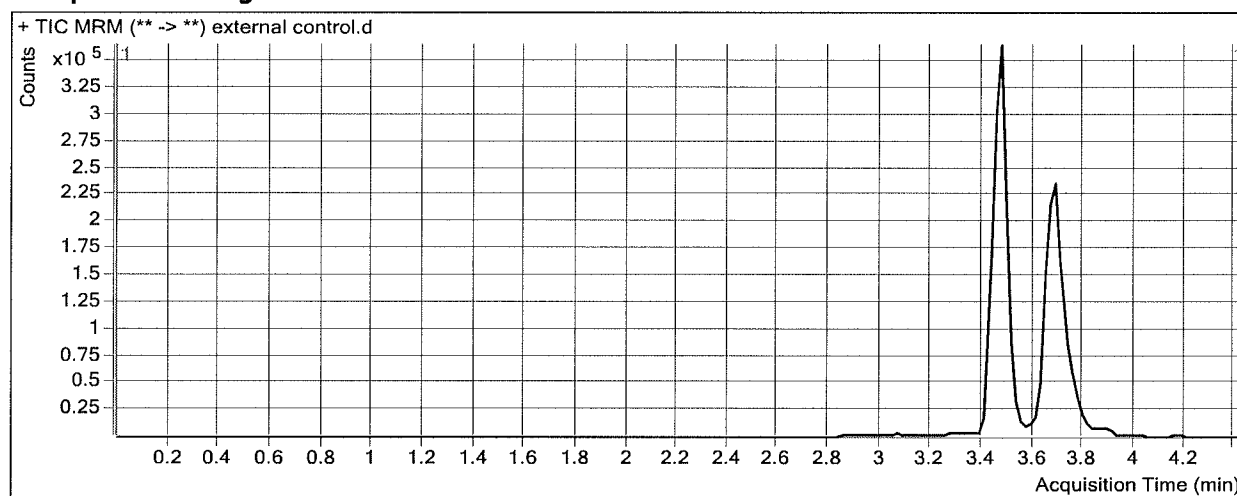
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\2-27-17 blood screen AM 25-26\QuantResults\022717 cann screen.batch.bin
Analysis Time 2/28/2017 9:20 AM **Analyst Name** ISP Tox
Report Time 2/28/2017 9:22 AM **Reporter Name** ISP Tox
Last Calib Update 2/28/2017 9:20 AM **Batch State** Processed

Analysis Info

Acq Time 2017-02-27 15:02 **Data File** external control.d
Sample Type Sample **Sample Name** external control
Dilution 1 **Acq Method** Screen THC 11102016.m
Position p1b2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen 15 ng

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.466	63071	178391	0.3536	11.9094
THC-OH	3.473	179793	965228	0.1863	17.6484
THC	3.760	6087	39347	0.1547	14.6241