
























Bylee

Worklist: 1802

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1176	1	87034	AM 25/AM 26 Blood MultiDrug/	
C2017-1183	1	87047	AM 25/AM 26 Blood MultiDrug/	
C2017-1213	1	87303	AM 25/AM 26 Blood MultiDrug/	
C2017-1238	1	87523	AM 25/AM 26 Blood MultiDrug/	
C2017-1239	1	87525	AM 25/AM 26 Blood MultiDrug/	
C2017-1263	1	87984	AM 25/AM 26 Blood MultiDrug/	
C2017-1278	1	88246	AM 25/AM 26 Blood MultiDrug/	
C2017-1294	1	88381	AM 25/AM 26 Blood MultiDrug/	
C2017-1301	1	88424	AM 25/AM 26 Blood MultiDrug/	
C2017-1308	1	88631	AM 25/AM 26 Blood MultiDrug/	
C2017-1309	1	88633	AM 25/AM 26 Blood MultiDrug/	
C2017-1313	1	88851	AM 25/AM 26 Blood MultiDrug/	
C2017-1365	1	89240	AM 25/AM 26 Blood MultiDrug/	
M2017-2410	3	87354	AM 25/AM 26 Blood MultiDrug/	
M2017-2663	1	88108	AM 25/AM 26 Blood MultiDrug/	
M2017-2725	1	89427	AM 25/AM 26 Blood MultiDrug/	
M2017-2725	2	89350	AM 25/AM 26 Blood MultiDrug/	
M2017-2763	1	89351	AM 25/AM 26 Blood MultiDrug/	
M2017-2765	1	89352	AM 25/AM 26 Blood MultiDrug/	
M2017-2821	2	88427	AM 25/AM 26 Blood MultiDrug/	
M2017-2900	2	88426	AM 25/AM 26 Blood MultiDrug/	
M2017-3046	2	89201	AM 25/AM 26 Blood MultiDrug/	
P2017-1516	1	89356	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 7-10-17

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: 7-10-17 blood screen Am 25-26

ANALYTIC

- ✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- ✓ 2. Pipette **250µL blood (calibrated pipette)** in wells of analytical (standards) plate.
 - Blank blood for locations containing standards/QCs and internal standards
 - Sample blood for locations containing only internal standards
- ✓ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID 66759*
- ✓ 4. Pipette **250µL 0.5M ammonium hydroxide** buffer in wells of analytical plate.
- ✓ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ✓ 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID 66729
- ✓ Wait 5 min.
- ✓ 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- ✓ 9. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*
- ✓ 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- ✓ 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*
- ✓ 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID 66819
- ✓ 13. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST-ANALYTIC

- ✓ 1. Open quantitation software and create a new quantitation batch. Batch name: 71017 mda pia
- ✓ 2. Make any necessary integration changes.
- ✓ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/5 the response of administrative control.
- ✓ 4. Did all QCs pass for each analyte? (Y) / N
- ✓ 5. Central File Packet to include: LIMS Worklist: Method Checklist Calibration and Control Reports

COMMENTS:

Compound Method	p1 cal 1a	p1 cal 1a Results	Qualifier 1 M...	Qualifier 1 R...	ISTD Method	ISTD Results							
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	7/10/20...	5.483	2411	7.65	328.2 -> 211...	10.25	6-MAM-D6	334.2 -> 165...	5.441	69904		
7-aminoclonazepam	286.1 -> 121...	7/10/20...	5.632	43462	112.21	286.1 -> 222...	56.30	7-Aminoclonazepam-D4	290.1 -> 121...	5.610	174396		
Acetyl Fentanyl	323.2 -> 105...	7/10/20...	6.359	36379	40.44	323.2 -> 188...	3890.33	Acetyl Fentanyl-D5	328.2 -> 105...	6.357	19451...		
Acetyl Norfentanyl	219.1 -> 84.2	7/10/20...	5.111	12227	76.06	219.1 -> 56.3	8.34	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.091	582125		
a-hydroxylprazolam	325.1 -> 297...	7/10/20...	6.440	88229	52.02	325.1 -> 215...	779.99	a-hydroxylprazolam-D5	330.1 -> 302...	6.439	43519		
alpha-PVP	232.2 -> 91.0	7/10/20...	5.986	183911	279.39	232.2 -> 77.1	29.60	alpha-PVP-d8	240.2 -> 91.1	5.924	781842		
Alprazolam	309.1 -> 281...	7/10/20...	6.525	60592	202.91	309.1 -> 205...	115.51	Alprazolam-D5	314.1 -> 286...	6.524	252051		
Amphetamine	136.1 -> 91.1	7/10/20...	5.032	223032	26.81	136.1 -> 119...	32.64	Amphetamine-D11	147.2 -> 130...	4.992	172160		
Bupropion	240.1 -> 184...	7/10/20...	6.189	206929	Infinity	240.1 -> 131...	24605...	Bupropion-D9	249.2 -> 185...	6.168	889858		
Carisoprodol	261.2 -> 176...	7/10/20...	6.187	73666	25.82	261.2 -> 55.3	32.40	Carisoprodol-D7	268.2 -> 183...	6.166	509159		
Citalopram	325.2 -> 109...	7/10/20...	6.277	259547	78.34	325.2 -> 262...	142.17	Citalopram-D6	331.2 -> 109...	6.276	11444...		
Clonazepam	316.1 -> 269...	7/10/20...	6.381	15997	66.72	316.1 -> 213...	9.49	Clonazepam-D4	320.1 -> 217...	6.381	21947		
Codeine	300.2 -> 215...	7/10/20...	5.446	14712	723.03	300.2 -> 165...	7511.58	Codeine-D6	306.2 -> 218...	5.404	46919		
Cyclobenzaprine	276.2 -> 214...	7/10/20...	6.653	168791	279.58	276.2 -> 231...	7065.96	Cyclobenzaprine-D3	279.2 -> 215...	6.632	753682		
Dextromethorphan	272.2 -> 171...	7/10/20...	6.390	67509	55.99	272.2 -> 147...	160.95	Dextromethorphan-D3	275.2 -> 171...	6.369	328694		
Dextrophan	258.2 -> 157...	7/10/20...	5.678	55089	9180.96	258.2 -> 133...	274.85	Dextrophan-D3	261.2 -> 157...	5.677	289943		
Diazepam	285.1 -> 193...	7/10/20...	6.752	57137	80.34	285.1 -> 153...	111.44	Diazepam-D5	290.1 -> 198...	6.730	219832		
Dihydrocodeine	302.2 -> 198...	7/10/20...	5.201	29408	62.04	302.2 -> 128...	4066.48	Dihydrocodeine-D6	308.2 -> 202...	5.160	161002		
Diphenhydramine	256.2 -> 167...	7/10/20...	6.270	363334	151.37	256.2 -> 152...	Infinity	Diphenhydramine-D3	259.2 -> 167...	6.269	20318...		
Doxylamine	271.2 -> 182...	7/10/20...	5.921	329899	117.49	271.2 -> 167...	123.15	Doxylamine-D5	276.2 -> 187...	5.899	16856...		
EDDP	279.2 -> 235...	7/10/20...	6.266	174765	137.85	279.2 -> 250...	8214.80	EDDP-D3	282.2 -> 235...	6.265	75328		
Fentanyl	337.2 -> 105...	7/10/20...	6.559	43254	Infinity	337.2 -> 188...	4299.43	Fentanyl-D5	342.3 -> 105...	6.559	18343...		
Fluoxetine	310.1 -> 44.3	7/10/20...	6.485	371562	395.12	310.1 -> 148...	30.03	Fluoxetine-D6	316.2 -> 44.3	6.463	17044...		
Hydrocodone	300.2 -> 198...	7/10/20...	5.671	42997	Infinity	300.2 -> 128...	46.80	Hydrocodone-D6	306.2 -> 202...	5.609	213013		
Hydromorphone	286.2 -> 184...	7/10/20...	5.001	22533	115.97	286.2 -> 157...	23.97	Hydromorphone-D6	292.2 -> 185...	4.939	76016		
Ketamine	238.1 -> 125...	7/10/20...	6.149	122984	Infinity	238.1 -> 220...	41.39	Ketamine-D4	242.1 -> 129...	6.148	506248		
Meproamate	219.1 -> 158...	7/10/20...	5.701	20886	Infinity	219.1 -> 97.1	5.52	Meproamate-D7	226.2 -> 165...	5.681	95710		
Methadone	310.2 -> 265...	7/10/20...	6.585	315647	363.61	310.2 -> 105...	135.42	Methadone-D9	319.3 -> 268...	6.584	15545...		
Methamphetamine	150.1 -> 91.1	7/10/20...	5.254	328471	Infinity	150.1 -> 119...	5.06	Methamphetamine-D11	161.2 -> 97.1	5.213	528442		
Morphine	286.2 -> 201...	7/10/20...	4.719	5523	16.17	286.2 -> 165...	41.16	Morphine-D6	292.2 -> 152...	4.678	3211		
Naloxone	328.2 -> 309...	7/10/20...	5.950	48131	Infinity	328.2 -> 211...	48.46	Naloxone-D5	333.2 -> 315...	5.869	351170		
Naltrexol	344.2 -> 326...	7/10/20...	5.278	106087	439.51	344.2 -> 308...	106.49	Naltrexol-D3	347.2 -> 329...	5.257	394934		
Naltrexone	342.2 -> 324...	7/10/20...	5.563	45832	133.39	342.2 -> 55.3	2584.68	Naltrexone-D3	345.2 -> 327...	5.501	272772		
Norbuprenorphine	414.3 -> 101...	7/10/20...	6.090	9757	1475.77	414.3 -> 57.3	56.28	Norbuprenorphine-D3	417.3 -> 101...	6.069	44402		
Nordiazepam	271.1 -> 140...	7/10/20...	6.614	26898	133.61	271.1 -> 208...	28.88	Nordiazepam-D5	276.1 -> 140...	6.583	78677		
Norfentanyl	233.2 -> 84.2	7/10/20...	5.558	182755	1139.12	233.2 -> 55.3	45.35	Norfentanyl-D5	238.2 -> 84.2	5.536	800886		
Norhydrocodone	286.2 -> 199...	7/10/20...	5.224	2589	9.04	286.2 -> 171...	Infinity	Norhydrocodone-D3	289.2 -> 202...	5.204	79259		
Noroxycodone	302.1 -> 284...	7/10/20...	5.120	33897	14.98	302.1 -> 186...	72.74	Noroxycodone-D3	305.2 -> 287...	5.099	162864		
O-desmethyl-tramadol	250.2 -> 58.3	7/10/20...	5.148	237004	635.48	250.2 -> 42.3	25.73	O-desmethyl-tramadol-...	256.2 -> 64.3	5.128	10421...		
Oxazepam	287.1 -> 240...	7/10/20...	6.447	19985	2959.93	287.1 -> 268...	9.30	Oxazepam-D5	292.1 -> 246...	6.447	93556		
Oxycodone	316.2 -> 298...	7/10/20...	5.383	68373	183.70	316.2 -> 241...	77.67	Oxycodone-D6	322.2 -> 304...	5.342	343725		
Oxymorphone	302.1 -> 284...	7/10/20...	4.656	53998	Infinity	302.1 -> 227...	28.11	Oxymorphone-D3	305.2 -> 287...	4.614	262314		
Phentermine	150.1 -> 65.2	7/10/20...	5.356	72547	Infinity	150.1 -> 133...	Infinity	Phentermine-D5	155.2 -> 96.2	5.376	466213		

Compound Method		p1 cal 1a Results					ISTD Method			ISTD Results			
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.
Promethazine	285.1 -> 86.2	7/10/20...	6.752	589409		3852.14	285.1 -> 71.3		118.99	Promethazine-D3	288.2 -> 89.2	6.731	30123...
Quetiapine	384.2 -> 253...	7/10/20...	6.740	368200		1669.54	384.2 -> 221...		33718...	Quetiapine-D8	392.2 -> 226...	6.718	470794
Sertraline	306.1 -> 158...	7/10/20...	6.830	99282		636.02	306.1 -> 275...		Infinity	Sertraline-D3	309.1 -> 275...	6.809	457401
Sufentanil	387.2 -> 238...	7/10/20...	6.941	43166		145.55	387.2 -> 111...		47.66	Sufentanil-D5	392.2 -> 238...	6.920	14458...
Temazepam	301.1 -> 255...	7/10/20...	6.568	100414		111.97	301.1 -> 283...		18.23	Temazepam-D5	306.1 -> 260...	6.567	475314
Tramadol	264.2 -> 58.3	7/10/20...	5.697	324044		221.97	264.2 -> 43.3		12.51	Tramadol-13C-D3	268.2 -> 58.3	5.676	14245...
Trazodone	372.2 -> 176...	7/10/20...	6.902	357997		555.48	372.2 -> 148...		579.53	Trazodone-D6	378.2 -> 182...	6.882	14956...
Venlafaxine	278.2 -> 58.3	7/10/20...	6.021	323518		188.01	278.2 -> 260...		34.67	Venlafaxine-D6	284.2 -> 64.3	6.020	13524...
Zolpidem	308.2 -> 235...	7/10/20...	6.465	301452		1290.20	308.2 -> 263...		260.16	Zolpidem-D6	314.2 -> 235...	6.463	14713...

Compound Method			p1 negative			p1 negative Results			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Qualifier 1 M...	MI	S/N	Qualifier...	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	7/10/2017 7:32 PM	5.198	725		25.75	328.2 -> 211...				6-MAM-D6	334.2 -> 165...	5.401	61579
7-Aminoclonazepam	286.1 -> 121...	7/10/2017 7:32 PM					286.1 -> 222...				7-Aminoclonazepam-D4	290.1 -> 121...	5.590	166859
Acetyl Fentanyl	323.2 -> 105...	7/10/2017 7:32 PM					323.2 -> 188...				Acetyl Fentanyl-D5	328.2 -> 105...	6.357	18274...
Acetyl Norfentanyl	219.1 -> 84.2	7/10/2017 7:32 PM	5.071	189		1.31	219.1 -> 56.3		1.27		Acetyl Norfentanyl-D5	224.2 -> 84.2	5.030	530394
a-hydroxyalprazolam	325.1 -> 297...	7/10/2017 7:32 PM	6.581	82		0.83	325.1 -> 215...				a-hydroxyalprazolam-D5	330.1 -> 302...	6.439	47686
alpha-PVP	232.2 -> 91.0	7/10/2017 7:32 PM	5.946	557		1.16	232.2 -> 77.1		0.55		alpha-PVP-D8	240.2 -> 91.1	5.904	694301
Alprazolam	309.1 -> 281...	7/10/2017 7:32 PM	6.363	3122		10.21	309.1 -> 205...		0.43		Alprazolam-D5	314.1 -> 286...	6.524	260736
Amphetamine	136.1 -> 91.1	7/10/2017 7:32 PM	4.992	61394		17.05	136.1 -> 119...		0.56		Amphetamine-D11	147.2 -> 130...	4.951	131480
Bupropion	240.1 -> 184...	7/10/2017 7:32 PM	6.229	114		3.78	240.1 -> 131...		2.53		Bupropion-D9	249.2 -> 185...	6.148	696745
Carisoprodol	261.2 -> 176...	7/10/2017 7:32 PM					261.2 -> 55.3				Carisoprodol-D7	268.2 -> 183...	6.166	454937
Citalopram	325.2 -> 109...	7/10/2017 7:32 PM	6.277	1222		1.85	325.2 -> 262...		0.37		Citalopram-D6	331.2 -> 109...	6.255	11088...
Clonazepam	316.1 -> 289...	7/10/2017 7:32 PM	6.503	346		1.22	316.1 -> 213...		1.92		Clonazepam-D4	320.1 -> 217...	6.381	24350
Codeine	300.2 -> 215...	7/10/2017 7:32 PM	5.203	91		1.37	300.2 -> 165...		1.33		Codeine-D6	306.2 -> 218...	5.364	42409
Cyclobenzaprine	276.2 -> 214...	7/10/2017 7:32 PM	6.491	110		0.86	276.2 -> 231...		0.25		Cyclobenzaprine-D3	279.2 -> 215...	6.632	721398
Dextromethorphan	272.2 -> 171...	7/10/2017 7:32 PM	6.538	41		0.59	272.2 -> 147...		0.75		Dextromethorphan-D3	275.2 -> 171...	6.369	306018
Dextroproprian	258.2 -> 157...	7/10/2017 7:32 PM	5.862	203		2.05	258.2 -> 133...		1.11		Dextroproprian-D3	261.2 -> 157...	5.636	267442
Diazepam	285.1 -> 193...	7/10/2017 7:32 PM	6.691	1230		1.47	285.1 -> 153...				Diazepam-D5	290.1 -> 198...	6.751	231671
Dihydrocodeine	302.2 -> 198...	7/10/2017 7:32 PM	5.018	60		0.66	302.2 -> 128...				Dihydrocodeine-D6	308.2 -> 202...	5.098	142092
Diphenhydramine	256.2 -> 167...	7/10/2017 7:32 PM	6.188	311		0.29	256.2 -> 152...		1.01		Diphenhydramine-D3	259.2 -> 167...	6.269	18291...
Doxylamine	271.2 -> 182...	7/10/2017 7:32 PM	5.799	85		0.23	271.2 -> 167...		0.48		Doxylamine-D5	276.2 -> 187...	5.879	15128...
EDDP	279.2 -> 235...	7/10/2017 7:32 PM	6.733	1174		0.65	279.2 -> 250...		5.20		EDDP-D3	282.2 -> 235...	6.265	81268
Fentanyl	337.2 -> 105...	7/10/2017 7:32 PM	6.599	182		0.40	337.2 -> 188...		0.94		Fentanyl-D5	342.3 -> 105...	6.559	17634...
Fluoxetine	310.1 -> 44.3	7/10/2017 7:32 PM	6.464	779		1.26	310.1 -> 148...		1.67		Fluoxetine-D6	316.2 -> 44.3	6.483	16460...
Hydrocodone	300.2 -> 198...	7/10/2017 7:32 PM	5.610	177		0.86	300.2 -> 128...				Hydrocodone-D6	306.2 -> 202...	5.589	209235
Hydromorphone	286.2 -> 184...	7/10/2017 7:32 PM	5.286	739		6.23	286.2 -> 157...		32.57		Hydromorphone-D6	292.2 -> 185...	4.899	79767
Ketamine	238.1 -> 125...	7/10/2017 7:32 PM	6.189	241		0.70	238.1 -> 220...		0.35		Ketamine-D4	242.1 -> 129...	6.128	459803
Meprobamate	219.1 -> 158...	7/10/2017 7:32 PM	6.089	3101		1.06	219.1 -> 97.1		0.73		Meprobamate-D7	226.2 -> 165...	5.660	95084
Methadone	310.2 -> 265...	7/10/2017 7:32 PM	6.747	1728		0.88	310.2 -> 105...		0.56		Methadone-D9	319.3 -> 268...	6.584	14598...
Methamphetamine	150.1 -> 91.1	7/10/2017 7:32 PM	5.254	139870		4.42	150.1 -> 119...				Methamphetamine-D11	161.2 -> 97.1	5.173	312977
Morphine	286.2 -> 201...	7/10/2017 7:32 PM	4.799	111		0.66	286.2 -> 165...				Morphine-D6	292.2 -> 152...	4.618	4148
Naloxone	328.2 -> 309...	7/10/2017 7:32 PM	6.113	618		0.91	328.2 -> 211...				Naloxone-D5	333.2 -> 315...	5.848	324333
Naltrexol	344.2 -> 326...	7/10/2017 7:32 PM	5.501	6964		15.08	344.2 -> 308...				Naltrexol-D3	347.2 -> 329...	5.217	400939
Naltrexone	342.2 -> 324...	7/10/2017 7:32 PM	5.563	76		0.48	342.2 -> 55.3		0.63		Naltrexone-D3	345.2 -> 327...	5.460	268898
Norbuprenorphine	414.3 -> 101...	7/10/2017 7:32 PM	6.130	49		0.57	414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	6.069	43375
Nordiazepam	271.1 -> 140...	7/10/2017 7:32 PM					271.1 -> 208...				Nordiazepam-D5	276.1 -> 140...	6.613	94933
Norfentanyl	233.2 -> 84.2	7/10/2017 7:32 PM	5.558	46		0.52	233.2 -> 55.3		1.64		Norfentanyl-D5	238.2 -> 84.2	5.516	738754
Norhydrocodone	286.2 -> 199...	7/10/2017 7:32 PM	5.245	83		1.16	286.2 -> 171...		0.29		Norhydrocodone-D3	289.2 -> 202...	5.164	70921
Noroxycodone	302.1 -> 284...	7/10/2017 7:32 PM	5.080	1203		1.34	302.1 -> 186...		2.22		Noroxycodone-D3	305.2 -> 287...	5.079	151834
O-desmethyl-tramadol	250.2 -> 58.3	7/10/2017 7:32 PM	5.087	1348		1.38	250.2 -> 42.3		0.50		O-desmethyl-tramadol-...	256.2 -> 64.3	5.087	10079...
Oxazepam	287.1 -> 240...	7/10/2017 7:32 PM	6.161	745		1.23	287.1 -> 268...		0.75		Oxazepam-D5	292.1 -> 246...	6.426	108305
Oxycodone	316.2 -> 298...	7/10/2017 7:32 PM	5.342	460		1.21	316.2 -> 241...		0.77		Oxycodone-D6	322.2 -> 304...	5.301	296046
Oxymorphone	302.1 -> 284...	7/10/2017 7:32 PM	4.776	218		2.42	302.1 -> 227...		0.41		Oxymorphone-D3	305.2 -> 287...	4.574	243485
Phentermine	150.1 -> 65.2	7/10/2017 7:32 PM	5.234	25411		1.16	150.1 -> 133...		Infini.		Phentermine-D5	155.2 -> 96.2	5.295	357281
Promethazine	285.1 -> 86.2	7/10/2017 7:32 PM	6.853	1931		0.58	285.1 -> 71.3		0.77		Promethazine-D3	288.2 -> 89.2	6.731	29840...
Quetiapine	384.2 -> 253...	7/10/2017 7:32 PM	6.760	162		1.12	384.2 -> 221...		0.70		Quetiapine-D8	392.2 -> 226...	6.738	471672
Sertraline	306.1 -> 158...	7/10/2017 7:32 PM	6.567	83		0.62	306.1 -> 275...		2.60		Sertraline-D3	309.1 -> 275...	6.829	470269

Compound Method		p1 negative			p1 negative Results				Qualifier 1 M...			Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.				
Temazepam	301.1 -> 255...	7/10/2017 7:32 PM	6.689	585	☐	0.93	301.1 -> 283...	☐	0.65	Temazepam-D5	306.1 -> 260...	6.567	518989				
Tramadol	264.2 -> 58.3	7/10/2017 7:32 PM	5.656	7044	☐	3.75	264.2 -> 43.3	☐		Tramadol-13C-D3	268.2 -> 58.3	5.656	13562...				
Trazodone	372.2 -> 176...	7/10/2017 7:32 PM	6.923	2021	☐	2.74	372.2 -> 148...	☐	16.38	Trazodone-D6	378.2 -> 182...	6.902	15559...				
Venlafaxine	278.2 -> 58.3	7/10/2017 7:32 PM	6.102	450	☐	0.85	278.2 -> 260...	☐	0.81	Venlafaxine-D6	284.2 -> 64.3	5.999	13091...				
Zolpidem	308.2 -> 235...	7/10/2017 7:32 PM	6.302	208	☐	5.74	308.2 -> 263...	☐	1.37	Zolpidem-D6	314.2 -> 235...	6.463	13854...				

Toxicology AM method 25 external prep information

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

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

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

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

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

by AMN

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

PPd 6-26-17 Exp 9-21-17 by AMN lot 92117

Compound Method		p1 external control		p1 external control Results		Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	7/10/2017 7:51 PM					328.2 -> 211...			6-MAM-D6	334.2 -> 165...	5.421	56839
7-Aminoclonazepam	286.1 -> 121...	7/10/2017 7:51 PM					286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.590	151417
Acetyl Fentanyl	323.2 -> 105...	7/10/2017 7:51 PM					323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	6.357	17095...
Acetyl Norfentanyl	219.1 -> 84.2	7/10/2017 7:51 PM	5.334	39		1.60	219.1 -> 56.3		1.57	Acetyl Norfentanyl-D5	224.2 -> 84.2	5.050	514481
a-hydroxyalprazolam	325.1 -> 297...	7/10/2017 7:51 PM	6.501	35		0.44	325.1 -> 215...			a-hydroxyalprazolam-D5	330.1 -> 302...	6.439	41622
alpha-PVP	232.2 -> 91.0	7/10/2017 7:51 PM	5.824	47		0.28	232.2 -> 77.1		0.52	alpha-PVP-d8	240.2 -> 91.1	5.904	655063
Alprazolam	309.1 -> 281...	7/10/2017 7:51 PM	6.363	3458		14.98	309.1 -> 205...		0.27	Alprazolam-D5	314.1 -> 286...	6.524	246953
Amphetamine	136.1 -> 91.1	7/10/2017 7:51 PM	4.992	52650		12.40	136.1 -> 119...		1.74	Amphetamine-D11	147.2 -> 130...	4.971	118258
Bupropion	240.1 -> 184...	7/10/2017 7:51 PM	6.270	536		0.87	240.1 -> 131...		0.74	Bupropion-D9	249.2 -> 185...	6.148	583712
Carisoprodol	261.2 -> 176...	7/10/2017 7:51 PM	6.064	565		0.58	261.2 -> 55.3		0.66	Carisoprodol-D7	268.2 -> 183...	6.166	421032
Citalopram	325.2 -> 109...	7/10/2017 7:51 PM	6.215	398		0.60	325.2 -> 262...		1.46	Citalopram-D6	331.2 -> 109...	6.276	988762
Clonazepam	316.1 -> 269...	7/10/2017 7:51 PM	6.523	377		4.22	316.1 -> 213...		1.53...	Clonazepam-D4	320.1 -> 217...	6.381	25379
Cocaine	300.2 -> 215...	7/10/2017 7:51 PM	5.446	114577		284.90	300.2 -> 165...			Cocaine-D6	306.2 -> 218...	5.384	39682
Cyclobenzaprine	276.2 -> 214...	7/10/2017 7:51 PM	6.592	375		0.76	276.2 -> 231...		1.16	Cyclobenzaprine-D3	279.2 -> 215...	6.652	675958
Dextromethorphan	272.2 -> 171...	7/10/2017 7:51 PM	6.492	125		0.80	272.2 -> 147...		0.33	Dextromethorphan-D3	275.2 -> 171...	6.389	285847
Dextropropfan	258.2 -> 157...	7/10/2017 7:51 PM	5.862	315		3.63	258.2 -> 133...			Dextropropfan-D3	261.2 -> 157...	5.656	265197
Diazepam	285.1 -> 193...	7/10/2017 7:51 PM	6.691	2023		3.17	285.1 -> 153...		0.88	Diazepam-D5	290.1 -> 198...	6.751	217170
Dihydrocodeine	302.2 -> 198...	7/10/2017 7:51 PM	5.079	61		2.85	302.2 -> 128...		0.53	Dihydrocodeine-D6	308.2 -> 202...	5.119	131965
Diphenhydramine	256.2 -> 167...	7/10/2017 7:51 PM	6.290	35203...		567.45	256.2 -> 152...		475.51	Diphenhydramine-D3	259.2 -> 167...	6.269	16999...
Doxylamine	271.2 -> 182...	7/10/2017 7:51 PM				271.2 -> 167...				Doxylamine-D5	276.2 -> 187...	5.899	14234...
EDDP	279.2 -> 235...	7/10/2017 7:51 PM				279.2 -> 250...				EDDP-D3	282.2 -> 235...	6.265	70264
Fentanyl	337.2 -> 105...	7/10/2017 7:51 PM	6.539	195		0.63	337.2 -> 188...		0.14	Fentanyl-D5	342.3 -> 105...	6.559	16276...
Fluoxetine	310.1 -> 44.3	7/10/2017 7:51 PM				310.1 -> 148...				Fluoxetine-D6	316.2 -> 44.3	6.483	16251...
Hydrocodone	300.2 -> 198...	7/10/2017 7:51 PM	5.446	59692		322.34	300.2 -> 128...		211.98	Hydrocodone-D6	306.2 -> 202...	5.609	194746
Hydromorphone	286.2 -> 184...	7/10/2017 7:51 PM	4.699	50685		292.55	286.2 -> 157...		649.74	Hydromorphone-D6	292.2 -> 185...	4.919	68661
Ketamine	238.1 -> 125...	7/10/2017 7:51 PM	5.823	171		0.96	238.1 -> 220...		0.85	Ketamine-D4	242.1 -> 129...	6.148	437440
Meprobamate	219.1 -> 158...	7/10/2017 7:51 PM				219.1 -> 97.1				Meprobamate-D7	226.2 -> 165...	5.660	92791
Methadone	310.2 -> 265...	7/10/2017 7:51 PM	6.524	1856		1.06	310.2 -> 105...			Methadone-D9	319.3 -> 268...	6.584	13947...
Methamphetamine	150.1 -> 91.1	7/10/2017 7:51 PM	5.254	64832		Infinity	150.1 -> 119...			Methamphetamine-D11	161.2 -> 97.1	5.173	252038
Morphine	286.2 -> 201...	7/10/2017 7:51 PM	4.699	99727		1624...	286.2 -> 165...		1001...	Morphine-D6	292.2 -> 152...	4.639	3420
Naloxone	328.2 -> 309...	7/10/2017 7:51 PM	6.072	469		1.09	328.2 -> 211...			Naloxone-D5	333.2 -> 315...	5.848	290552
Naltrexol	344.2 -> 326...	7/10/2017 7:51 PM	5.501	5487		7.81	344.2 -> 308...			Naltrexol-D3	347.2 -> 329...	5.217	367196
Naltrexone	342.2 -> 324...	7/10/2017 7:51 PM	5.543	132		0.95	342.2 -> 55.3		3.84	Naltrexone-D3	345.2 -> 327...	5.480	248195
Norbuprenorphine	414.3 -> 101...	7/10/2017 7:51 PM				414.3 -> 57.3				Norbuprenorphine-D3	417.3 -> 101...	6.069	33619
Nordiazepam	271.1 -> 140...	7/10/2017 7:51 PM	6.695	151		0.52	271.1 -> 208...		11.79	Nordiazepam-D5	276.1 -> 140...	6.613	83196
Norfentanyl	233.2 -> 84.2	7/10/2017 7:51 PM	5.558	256		2.64	233.2 -> 55.3		2.33	Norfentanyl-D5	238.2 -> 84.2	5.515	677554
Norhydrocodone	286.2 -> 199...	7/10/2017 7:51 PM	5.224	72		1.88	286.2 -> 171...			Norhydrocodone-D3	289.2 -> 202...	5.184	71004
Noroxycodone	302.1 -> 284...	7/10/2017 7:51 PM	5.120	217		1.00	302.1 -> 186...		0.44	Noroxycodone-D3	305.2 -> 287...	5.079	141668
O-desmethyl-tramadol	250.2 -> 58.3	7/10/2017 7:51 PM	5.128	1331		0.85	250.2 -> 42.3			O-desmethyl-tramadol-...	256.2 -> 64.3	5.107	932316
Oxazepam	287.1 -> 240...	7/10/2017 7:51 PM	6.508	201		34.16	287.1 -> 268...			Oxazepam-D5	292.1 -> 246...	6.447	108456
Oxycodone	316.2 -> 298...	7/10/2017 7:51 PM	5.342	140		0.60	316.2 -> 241...			Oxycodone-D6	322.2 -> 304...	5.322	288429
Oxymorphone	302.1 -> 284...	7/10/2017 7:51 PM				302.1 -> 227...				Oxymorphone-D3	305.2 -> 287...	4.574	227180
Phentermine	150.1 -> 65.2	7/10/2017 7:51 PM	5.295	27812		1.94	150.1 -> 133...		139.83	Phentermine-D5	155.2 -> 96.2	5.315	320952
Promethazine	285.1 -> 86.2	7/10/2017 7:51 PM	6.731	196		74.61	285.1 -> 71.3			Promethazine-D3	288.2 -> 89.2	6.731	27371...
Quetiapine	384.2 -> 253...	7/10/2017 7:51 PM	6.760	39		0.53	384.2 -> 221...			Quetiapine-D8	392.2 -> 226...	6.738	433247
Setraline	306.1 -> 158...	7/10/2017 7:51 PM	6.810	73		1.18	306.1 -> 275...			Setraline-D3	309.1 -> 275...	6.829	427795

Compound Method		p1 external control		p1 external control		Results		Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.		
Temazepam	301.1 -> 255...	7/10/2017 7:51 PM	6.568	348	☑	0.36	301.1 -> 283...	☑		Temazepam-D5	306.1 -> 260...	6.588	483426		
Tramadol	264.2 -> 58.3	7/10/2017 7:51 PM	5.677	6006	☑	2.77	264.2 -> 43.3	☑	0.41	Tramadol-13C-D3	268.2 -> 58.3	5.656	12700...		
Trazodone	372.2 -> 176...	7/10/2017 7:51 PM	6.902	1302	☑	1.42	372.2 -> 148...	☑	Infinity	Trazodone-D6	378.2 -> 182...	6.902	14539...		
Venlafaxine	278.2 -> 58.3	7/10/2017 7:51 PM			☑		278.2 -> 260...	☑		Venlafaxine-D6	284.2 -> 64.3	5.999	12196...		
Zolpidem	308.2 -> 235...	7/10/2017 7:51 PM	6.506	289	☑	2.48	308.2 -> 263...	☑	0.67	Zolpidem-D6	314.2 -> 235...	6.463	13136...		

Compound	Method	p2 external control	p2 external control	Results	Qualifier 1 M...	Qualifier 1...	ISTD Method	ISTD Results					
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	7/10/2017 8:01 PM	5.987	747		19.99	284.1 -> 93.2		3.53	7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	245899
alpha-hydroxymidazolam	342.1 -> 324...	7/10/2017 8:01 PM	6.387	39		0.69	342.1 -> 203...			alpha-hydroxymidazolam...	346.1 -> 328...	6.508	421337
Amtripyline	278.2 -> 91.2	7/10/2017 8:01 PM	6.782	17305...		Infinity	278.2 -> 105...		486.92	Amtripyline-D3	281.2 -> 91.2	6.760	643846
Amoxapine	314.1 -> 271...	7/10/2017 8:01 PM	6.857	227		109.92	314.1 -> 193...			Amtripyline-D3	281.2 -> 91.2	6.760	643846
Benzoylcegonine	290.1 -> 168...	7/10/2017 8:01 PM	5.170	47		1.18	290.1 -> 105...		2.55	Benzoylcegonine-D8	298.2 -> 171...	5.371	6508
Carbamazepine	237.1 -> 193...	7/10/2017 8:01 PM	6.178	176		64.23	237.1 -> 194...		1.99	Carbamazepine-13C6	243.1 -> 200...	6.197	13214...
Chlordiazepoxide	300.1 -> 227...	7/10/2017 8:01 PM	6.433	654		5.05	300.1 -> 282...		0.41	Chlordiazepoxide-D5	305.1 -> 286...	6.636	282443
Clomipramine	315.2 -> 86.2	7/10/2017 8:01 PM	7.243	1045		10.18	315.2 -> 58.3		1.71	Cloimpramine-D3	318.2 -> 89.2	7.060	21324...
Cocaine	304.2 -> 182...	7/10/2017 8:01 PM	5.923	1060		4.34	304.2 -> 105...			Cocaine-D3	307.2 -> 185...	5.902	769988
Desipramine	267.2 -> 72.3	7/10/2017 8:01 PM	6.560	195121		584.19	267.2 -> 44.3		Infinity	Desipramine-D3	270.2 -> 75.3	6.560	15611...
Doxepin	280.2 -> 107...	7/10/2017 8:01 PM					280.2 -> 77.2			Doxepin-D3	283.2 -> 107...	6.456	733771
Estazolam	295.1 -> 267...	7/10/2017 8:01 PM					295.1 -> 205...			Estazolam-D5	300.1 -> 272...	6.453	329511
Flunitrazepam	314.1 -> 268...	7/10/2017 8:01 PM	6.553	587		1.38	314.1 -> 239...		0.34	Flunitrazepam-D7	321.1 -> 245...	6.491	13208
Flurazepam	388.2 -> 315...	7/10/2017 8:01 PM					388.2 -> 317...			Zopiclone-D4	393.1 -> 244...	6.465	209486
Imipramine	281.2 -> 86.2	7/10/2017 8:01 PM	6.659	3942		12.03	281.2 -> 58.3		1.19	Imipramine-D3	284.2 -> 61.3	6.699	13180...
Levamisole	205.1 -> 91.2	7/10/2017 8:01 PM					205.1 -> 178...			Cocaine-D3	307.2 -> 185...	5.902	769988
Maprotiline	278.2 -> 91.2	7/10/2017 8:01 PM					278.2 -> 117...			Meperidine-D4	252.2 -> 224...	5.952	355254
MDA	180.1 -> 163...	7/10/2017 8:01 PM	5.367	147		0.75	180.1 -> 105...		0.51	MDA-D5	185.1 -> 168...	5.165	219034
MDEA	208.1 -> 163...	7/10/2017 8:01 PM	5.629	124		0.74	208.1 -> 105...		1.00	MDEA-D6	214.2 -> 166...	5.446	495098
MDMA	194.1 -> 163...	7/10/2017 8:01 PM	5.244	9		0.35	194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.304	46620
Meperidine	248.2 -> 220...	7/10/2017 8:01 PM	5.952	49		23.53	248.2 -> 174...		1.48	Meperidine-D4	252.2 -> 224...	5.952	355254
Methylphenidate	234.2 -> 84.2	7/10/2017 8:01 PM	6.015	17		0.24	234.2 -> 56.3		0.58	Meperidine-D4	252.2 -> 224...	5.952	355254
Metoprolol	268.2 -> 116...	7/10/2017 8:01 PM	5.519	107		1.43	268.2 -> 56.3		6.58	Meperidine-D4	252.2 -> 224...	5.952	355254
Midazolam	326.1 -> 223...	7/10/2017 8:01 PM	6.774	46		0.66	326.1 -> 249...			Midazolam-D4	330.1 -> 295...	6.672	470711
Mirtazapine	266.2 -> 195...	7/10/2017 8:01 PM	6.561	23936...		157.16	266.2 -> 72.3		Infinity	Midazolam-D4	330.1 -> 295...	6.672	470711
Mitragynine	399.2 -> 174...	7/10/2017 8:01 PM					399.2 -> 238...			Carbamazepine-13C6	243.1 -> 200...	6.197	13214...
Normeperidine	234.1 -> 42.3	7/10/2017 8:01 PM	5.894	128		0.61	234.1 -> 160...		0.61	Normeperidine-D4	238.2 -> 164...	5.810	276554
Norpropoxyphene	326.2 -> 44.3	7/10/2017 8:01 PM	6.469	58		0.38	326.2 -> 252...			Norpropoxyphene-D5	331.2 -> 44.3	6.428	170123
Nortriptyline	264.2 -> 91.2	7/10/2017 8:01 PM	6.602	5202		Infinity	264.2 -> 233...		8.00	Nortriptyline-D3	267.2 -> 233...	6.621	427597
Ondansetron	294.2 -> 184...	7/10/2017 8:01 PM	6.312	24		0.31	294.2 -> 212...			Pentazocine-13C3	289.2 -> 72.3	5.885	544841
Pentazocine	286.2 -> 218...	7/10/2017 8:01 PM					286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.885	544841
Phenazepam	349.0 -> 206...	7/10/2017 8:01 PM	6.508	2133		18.63	349.0 -> 183...		1.88	Phenazepam-D4	353.0 -> 183...	6.547	20420
Phencyclidine	244.2 -> 86.2	7/10/2017 8:01 PM	6.258	501		0.69	244.2 -> 91.1			Phencyclidine-D5	249.2 -> 86.2	6.115	11092...
Phenylethylamine	253.1 -> 104...	7/10/2017 8:01 PM	5.952	2475		0.53	253.1 -> 182...			Phenylethylamine-D10	263.2 -> 192...	6.074	15033
Prazepam	325.1 -> 271...	7/10/2017 8:01 PM	6.997	95		0.61	325.1 -> 140...		0.30	Prazepam-D5	330.1 -> 276...	6.995	11278...
Primidone	219.1 -> 91.2	7/10/2017 8:01 PM	5.609	501		0.40	219.1 -> 162...			Prazepam-D5	330.1 -> 276...	6.995	11278...
Propoxyphene	340.2 -> 58.3	7/10/2017 8:01 PM					340.2 -> 266...			Propoxyphene-D11	351.3 -> 277...	6.527	338000
Protriptyline	264.2 -> 155...	7/10/2017 8:01 PM	6.643	106		1.04	264.2 -> 161...			Nortriptyline-D3	267.2 -> 233...	6.621	427597
Pseudoephedrine	166.1 -> 148...	7/10/2017 8:01 PM	4.864	1308		1.28	166.1 -> 133...		0.42	Pseudoephedrine-D3	169.1 -> 151...	4.802	446099
Tapentadol	222.2 -> 107...	7/10/2017 8:01 PM	5.628	327		0.72	222.2 -> 121...		1.57	Tapentadol-D3	225.2 -> 107...	5.649	780834
Trimipramine	295.2 -> 100...	7/10/2017 8:01 PM					295.2 -> 58.3			Trimipramine-D3	298.2 -> 103...	6.820	28562...
Verapamil	455.3 -> 165...	7/10/2017 8:01 PM	6.585	232		0.69	455.3 -> 150...		0.91	Trimipramine-D3	298.2 -> 103...	6.820	28562...
Zaleplon	306.1 -> 236...	7/10/2017 8:01 PM	6.044	67		0.88	306.1 -> 264...		1.86	Zaleplon-D4	310.2 -> 240...	6.289	241958
Zopiclone	389.1 -> 244...	7/10/2017 8:01 PM	6.769	92		0.60	389.1 -> 216...		0.35	Zopiclone-D4	393.1 -> 244...	6.465	209486

A response for desipramine, it does not resolve from mirtazapine. Rt matches mirtazapine.



Compound Method			p2 cal 1b	p2 cal 1b Results			Qualifier 1 M...			Qualifier 1 R...			ISTD Method			ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.					
7-aminoflunitrazepam	284.1 -> 135...	7/10/2017...	5.783	59898		Infinity	284.1 -> 93.2		523.88	7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	303040					
alpha-hydroxymidazolam	342.1 -> 324...	7/10/2017...	6.508	83194		227.52	342.1 -> 203...		10116...	alpha-hydroxymidazolam-...	346.1 -> 328...	6.508	428906					
Amiripryline	278.2 -> 91.2	7/10/2017...	6.762	225521		811.79	278.2 -> 105...		Infinity	Amiripryline-D3	281.2 -> 91.2	6.740	730529					
Amoxapine	314.1 -> 271...	7/10/2017...	6.715	94013		31931.31	314.1 -> 193...		Infinity	Amiripryline-D3	281.2 -> 91.2	6.740	730529					
Benzoylcegonine	290.1 -> 168...	7/10/2017...	5.393	18222		5255.86	290.1 -> 105...		519.67	Benzoylcegonine-D8	298.2 -> 171...	5.371	6909					
Carbamazepine	237.1 -> 193...	7/10/2017...	6.198	32831		5185.15	237.1 -> 194...		886.48	Carbamazepine-13C6	243.1 -> 200...	6.177	15195...					
Chlordiazepoxide	300.1 -> 227...	7/10/2017...	6.657	37615		23.63	300.1 -> 282...		11.44	Chlordiazepoxide-D5	305.1 -> 286...	6.636	303400					
Clomipramine	315.2 -> 86.2	7/10/2017...	7.081	585323		122.98	315.2 -> 58.3		Infinity	Clomipramine-D3	318.2 -> 89.2	7.060	27580...					
Cocaine	304.2 -> 182...	7/10/2017...	5.902	220809		45773.29	304.2 -> 105...		141.26	Cocaine-D3	270.2 -> 185...	5.881	915721					
Desipramine	267.2 -> 72.3	7/10/2017...	6.581	392037		Infinity	267.2 -> 44.3		Infinity	Desipramine-D3	270.2 -> 75.3	6.580	17689...					
Doxepin	280.2 -> 107...	7/10/2017...	6.457	170764		115.63	280.2 -> 77.2		9.09	Doxepin-D3	283.2 -> 107...	6.436	805073					
Estazolam	295.1 -> 267...	7/10/2017...	6.455	76130		2262.19	295.1 -> 205...		756.25	Estazolam-D5	300.1 -> 272...	6.453	347880					
Flunitrazepam	314.1 -> 268...	7/10/2017...	6.492	66747		365.69	314.1 -> 239...		117.50	Flunitrazepam-D7	321.1 -> 245...	6.471	13566					
Flurazepam	388.2 -> 315...	7/10/2017...	6.608	238805		24691.93	388.2 -> 317...		247.36	Zopiclone-D4	393.1 -> 244...	6.465	238340					
Imipramine	281.2 -> 86.2	7/10/2017...	6.700	602153		145989...	281.2 -> 58.3		Infinity	Imipramine-D3	284.2 -> 61.3	6.679	15050...					
Levamisole	205.1 -> 91.2	7/10/2017...	5.549	66134		Infinity	205.1 -> 178...		864.34	Cocaine-D3	307.2 -> 185...	5.881	915721					
Maprotiline	278.2 -> 91.2	7/10/2017...	6.253	134035		Infinity	278.2 -> 117...		Infinity	Meperidine-D4	252.2 -> 224...	5.952	401351					
MDEA	180.1 -> 163...	7/10/2017...	5.165	56489		Infinity	180.1 -> 105...		136.55	MDEA-D5	185.1 -> 168...	5.144	274542					
MDEA	208.1 -> 163...	7/10/2017...	5.447	125000		1073.06	208.1 -> 105...		Infinity	MDEA-D6	214.2 -> 166...	5.446	602890					
MDMA	194.1 -> 163...	7/10/2017...	5.305	99557		Infinity	194.1 -> 105...		118.67	MDMA-D6	200.2 -> 166...	5.284	51526					
Meperidine	248.2 -> 220...	7/10/2017...	5.952	81017		279.75	248.2 -> 174...		23.90	Meperidine-D4	252.2 -> 224...	5.952	401351					
Methyphenidate	234.2 -> 84.2	7/10/2017...	5.791	395449		220.25	234.2 -> 56.3		Infinity	Meperidine-D4	252.2 -> 224...	5.952	401351					
Metoprolol	268.2 -> 116...	7/10/2017...	5.621	32268		12216.19	268.2 -> 56.3		1479.60	Meperidine-D4	252.2 -> 224...	5.952	401351					
Midazolam	326.1 -> 223...	7/10/2017...	6.673	34203		63.92	326.1 -> 249...		117.43	Midazolam-D4	330.1 -> 295...	6.672	527966					
Mirtazapine	266.2 -> 195...	7/10/2017...	6.541	267274		Infinity	266.2 -> 72.3		72492...	Midazolam-D4	330.1 -> 295...	6.672	527966					
Mirtazapine	399.2 -> 174...	7/10/2017...	6.586	99336		2198.12	399.2 -> 238...		12605...	Carbamazepine-13C6	243.1 -> 200...	6.177	15195...					
Normeperidine	234.1 -> 42.3	7/10/2017...	5.812	95695		189.26	234.1 -> 160...		376.06	Normeperidine-D4	238.2 -> 164...	5.790	333824					
Norpropoxyphene	326.2 -> 44.3	7/10/2017...	6.429	54190		466.49	326.2 -> 252...		2717.11	Norpropoxyphene-D5	331.2 -> 44.3	6.408	202334					
Nortriptyline	264.2 -> 91.2	7/10/2017...	6.623	120091		Infinity	264.2 -> 233...		Infinity	Nortriptyline-D3	267.2 -> 233...	6.621	501768					
Oransetron	294.2 -> 184...	7/10/2017...	6.209	137106		432.69	294.2 -> 212...		11877...	Pentazocine-13C3	289.2 -> 72.3	5.885	623277					
Pentazocine	286.2 -> 218...	7/10/2017...	5.885	152209		102.08	286.2 -> 41.3		Infinity	Pentazocine-13C3	289.2 -> 72.3	5.885	623277					
Phenazepam	349.0 -> 206...	7/10/2017...	6.548	60890		16237.67	349.0 -> 183...		94.93	Phenazepam-D4	353.0 -> 183...	6.547	20008					
Phencyclidine	244.2 -> 86.2	7/10/2017...	6.116	276463		244.2 -> 91.1			Infinity	Phencyclidine-D5	249.2 -> 86.2	6.115	13145...					
Phenylethanolamine	253.1 -> 104...	7/10/2017...	6.114	3789		28.86	253.1 -> 182...		63.57	Phenylethanolamine-D10	263.2 -> 192...	6.074	18457					
Praxepam	325.1 -> 271...	7/10/2017...	6.997	296736		484.65	325.1 -> 140...		290.61	Praxepam-D5	330.1 -> 276...	6.975	12812...					
Primidone	219.1 -> 91.2	7/10/2017...	5.466	10337		Infinity	219.1 -> 162...		18.39	Praxepam-D5	330.1 -> 276...	6.975	12812...					
Propoxyphene	340.2 -> 58.3	7/10/2017...	6.570	356778		Infinity	340.2 -> 266...		470.67	Propoxyphene-D11	351.3 -> 277...	6.507	391147					
Protriptyline	264.2 -> 155...	7/10/2017...	6.501	819624		Infinity	264.2 -> 161...		Infinity	Nortriptyline-D3	267.2 -> 233...	6.621	501768					
Pseudoephedrine	166.1 -> 148...	7/10/2017...	4.783	12621		261.53	166.1 -> 133...		713.68	Pseudoephedrine-D3	169.1 -> 151...	4.782	571801					
Tapentadol	222.2 -> 107...	7/10/2017...	5.649	177624		Infinity	222.2 -> 121...		403.25	Tapentadol-D3	225.2 -> 107...	5.649	891225					
Trimipramine	295.2 -> 100...	7/10/2017...	6.820	706615		Infinity	295.2 -> 58.3		Infinity	Trimipramine-D3	298.2 -> 103...	6.799	31863...					
Verapamil	455.3 -> 165...	7/10/2017...	6.565	269258		Infinity	455.3 -> 150...		310.80	Trimipramine-D3	298.2 -> 103...	6.799	31863...					
Zaleplon	306.1 -> 236...	7/10/2017...	6.290	78613		420.42	306.1 -> 264...		240.18	Zaleplon-D4	310.2 -> 240...	6.269	264379					
Zopiclone	389.1 -> 244...	7/10/2017...	6.465	53639		186.53	389.1 -> 216...		218.00	Zopiclone-D4	393.1 -> 244...	6.465	238340					

Compound Method			p2 negative			p2 negative Results			Qualifier 1 M...			Qualifier 1 ...			ISTD Method			ISTD Results		
Name	Transition	Acq Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.							
7-aminoflunitrazepam	284.1 -> 135...	7/10/2017 7:42 PM	6.008	1167		22.73	284.1 -> 93.2		4.02	7-aminoflunitrazepam-D7	291.2 -> 138...	5.761	277886							
alpha-hydroxymidazolam	342.1 -> 324...	7/10/2017 7:42 PM	6.650	80		1.02	342.1 -> 203...		1.94	alpha-hydroxymidazolam...	346.1 -> 328...	6.508	447137							
Amtripylyne	278.2 -> 91.2	7/10/2017 7:42 PM	6.559	9320		0.76	278.2 -> 105...		Infinity	Amtripylyne-D3	281.2 -> 91.2	6.760	677015							
Amoxapine	314.1 -> 271...	7/10/2017 7:42 PM	6.533	761		4.13	314.1 -> 193...		141.51	Amtripylyne-D3	281.2 -> 91.2	6.760	677015							
Benzoylcegonine	290.1 -> 168...	7/10/2017 7:42 PM					290.1 -> 105...			Benzoylcegonine-D8	298.2 -> 171...	5.371	6892							
Carbamazepine	237.1 -> 193...	7/10/2017 7:42 PM	6.239	86		0.64	237.1 -> 194...			Carbamazepine-13C6	243.1 -> 200...	6.197	13779...							
Chlordiazepoxide	300.1 -> 227...	7/10/2017 7:42 PM	6.758	54		0.56	300.1 -> 282...			Chlordiazepoxide-D5	305.1 -> 286...	6.656	293986							
Clompiramine	315.2 -> 86.2	7/10/2017 7:42 PM	7.039	153		0.77	315.2 -> 58.3		0.50	Clompiramine-D3	318.2 -> 89.2	7.081	23490...							
Cocaine	304.2 -> 182...	7/10/2017 7:42 PM	5.943	1524		2.82	304.2 -> 105...		0.65	Cocaine-D3	307.2 -> 185...	5.902	823968							
Desipramine	267.2 -> 72.3	7/10/2017 7:42 PM	6.662	1457		140.26	267.2 -> 44.3		16.68	Desipramine-D3	270.2 -> 75.3	6.580	16555...							
Doxepin	280.2 -> 107...	7/10/2017 7:42 PM	6.212	274		1.08	280.2 -> 77.2		1.00	Doxepin-D3	283.2 -> 107...	6.456	770854							
Estazolam	295.1 -> 267...	7/10/2017 7:42 PM	6.699	27		0.25	295.1 -> 205...		0.31	Estazolam-D5	300.1 -> 272...	6.453	340684							
Flunitrazepam	314.1 -> 268...	7/10/2017 7:42 PM	6.533	1083		7.18	314.1 -> 239...			Flunitrazepam-D7	321.1 -> 245...	6.491	14581							
Flurazepam	388.2 -> 315...	7/10/2017 7:42 PM	6.608	8		0.23	388.2 -> 317...			Zopiclone-D4	393.1 -> 244...	6.465	273122							
Imipramine	281.2 -> 86.2	7/10/2017 7:42 PM	6.659	3910		2.51	281.2 -> 58.3		0.52	Imipramine-D3	284.2 -> 61.3	6.699	14015...							
Levamisole	205.1 -> 91.2	7/10/2017 7:42 PM	5.732	1175		1.05	205.1 -> 178...			Cocaine-D3	307.2 -> 185...	5.902	823968							
Maprotiline	278.2 -> 91.2	7/10/2017 7:42 PM					278.2 -> 117...			Meperidine-D4	252.2 -> 224...	5.952	359207							
MDA	180.1 -> 163...	7/10/2017 7:42 PM	5.306	98		0.66	180.1 -> 105...			MDA-D5	185.1 -> 168...	5.165	243001							
MDEA	208.1 -> 163...	7/10/2017 7:42 PM	5.487	163		1.37	208.1 -> 105...			MDEA-D6	214.2 -> 166...	5.446	533353							
MDMA	194.1 -> 163...	7/10/2017 7:42 PM					194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.325	46683							
Meperidine	248.2 -> 220...	7/10/2017 7:42 PM	5.952	43		0.33	248.2 -> 174...			Meperidine-D4	252.2 -> 224...	5.952	359207							
Methylphenidate	234.2 -> 84.2	7/10/2017 7:42 PM	5.893	172		0.45	234.2 -> 56.3		0.31	Meperidine-D4	252.2 -> 224...	5.952	359207							
Metoprolol	268.2 -> 116...	7/10/2017 7:42 PM					268.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.952	359207							
Midazolam	326.1 -> 223...	7/10/2017 7:42 PM					326.1 -> 249...			Midazolam-D4	330.1 -> 295...	6.672	493927							
Mirtazapine	266.2 -> 195...	7/10/2017 7:42 PM	6.480	96		1.00	266.2 -> 72.3			Midazolam-D4	330.1 -> 295...	6.672	493927							
Mitragynine	399.2 -> 174...	7/10/2017 7:42 PM					399.2 -> 238...			Carbamazepine-13C6	243.1 -> 200...	6.197	13779...							
Normeperidine	234.1 -> 42.3	7/10/2017 7:42 PM					234.1 -> 160...			Normeperidine-D4	238.2 -> 164...	5.810	294397							
Norpropoxyphene	326.2 -> 44.3	7/10/2017 7:42 PM	6.408	41		0.42	326.2 -> 252...			Normeperidine-D4	238.2 -> 164...	5.810	294397							
Nortriptyline	264.2 -> 91.2	7/10/2017 7:42 PM	6.825	180		0.35	264.2 -> 233...			Nortriptyline-D3	267.2 -> 233...	6.621	554475							
Ondansetron	294.2 -> 184...	7/10/2017 7:42 PM	6.250	25		0.26	294.2 -> 212...			Pentazocine-13C3	289.2 -> 72.3	5.885	573616							
Pentazocine	286.2 -> 218...	7/10/2017 7:42 PM	6.088	34		1.61	286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.885	573616							
Phenazepam	349.0 -> 206...	7/10/2017 7:42 PM	6.508	2400		7.11	349.0 -> 183...			Phenazepam-D4	353.0 -> 183...	6.568	20486							
Phencyclidine	244.2 -> 86.2	7/10/2017 7:42 PM					244.2 -> 91.1			Phencyclidine-D5	249.2 -> 86.2	6.115	12146...							
Phenylethanolamine	253.1 -> 104...	7/10/2017 7:42 PM	5.972	3721		47.40	253.1 -> 182...			Phenylethanolamine-D5	263.2 -> 192...	6.094	16217							
Prazepam	325.1 -> 271...	7/10/2017 7:42 PM	6.876	10		0.31	325.1 -> 140...			Prazepam-D5	330.1 -> 276...	6.995	11840...							
Primidone	219.1 -> 91.2	7/10/2017 7:42 PM	5.731	1812		0.82	219.1 -> 162...		0.55	Prazepam-D5	330.1 -> 276...	6.995	11840...							
Propoxyphene	340.2 -> 58.3	7/10/2017 7:42 PM	6.610	122		0.79	340.2 -> 266...		1.38	Propoxyphene-D11	351.3 -> 277...	6.527	350132							
Protriptyline	264.2 -> 155...	7/10/2017 7:42 PM	6.602	237		0.80	264.2 -> 161...			Nortriptyline-D3	267.2 -> 233...	6.621	554475							
Pseudoephedrine	166.1 -> 148...	7/10/2017 7:42 PM	4.823	1511		0.57	166.1 -> 133...		0.18	Pseudoephedrine-D3	169.1 -> 151...	4.802	506083							
Tapentadol	222.2 -> 107...	7/10/2017 7:42 PM	5.669	222		0.81	222.2 -> 121...		0.32	Tapentadol-D3	225.2 -> 107...	5.649	794902							
Trimipramine	295.2 -> 100...	7/10/2017 7:42 PM	6.982	231		0.36	295.2 -> 58.3		0.74	Trimipramine-D3	298.2 -> 103...	6.820	28723...							
Verapamil	455.3 -> 165...	7/10/2017 7:42 PM	6.545	173		1.16	455.3 -> 150...		1.74	Trimipramine-D3	298.2 -> 103...	6.820	28723...							
Zaleplon	306.1 -> 236...	7/10/2017 7:42 PM					306.1 -> 264...			Zaleplon-D4	310.2 -> 240...	6.289	270942							
Zopiclone	389.1 -> 244...	7/10/2017 7:42 PM	6.262	84		0.32	389.1 -> 216...			Zopiclone-D4	393.1 -> 244...	6.465	273122							

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

Extraction Date: 7-10-17

Analyst: Anne Ward

PRE-ANALYTIC

Custom 0499102

1-28-2018

Plate Lot# Stock THC plate: 0483844 A

Plate Exp: 6/15/2017 A

- ✓ 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: 7-10-17 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: 71017 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:

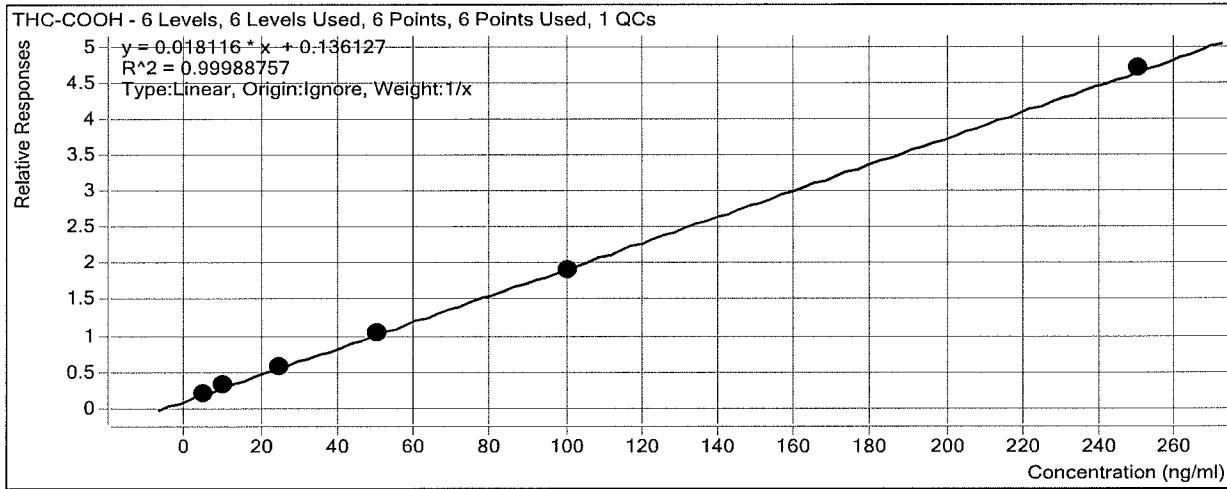
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin

Last Calib Update 7/11/2017 7:17 AM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.0	99.3
cal 3	3	<input checked="" type="checkbox"/>	10	10.2	102.4
QC 10	3	<input checked="" type="checkbox"/>	10	11.9	119.1
cal 4	4	<input checked="" type="checkbox"/>	25	24.9	99.7
cal 5	5	<input checked="" type="checkbox"/>	50	49.6	99.3
cal 6	6	<input checked="" type="checkbox"/>	100	98.6	98.6
cal 7	7	<input checked="" type="checkbox"/>	250	251.6	100.6

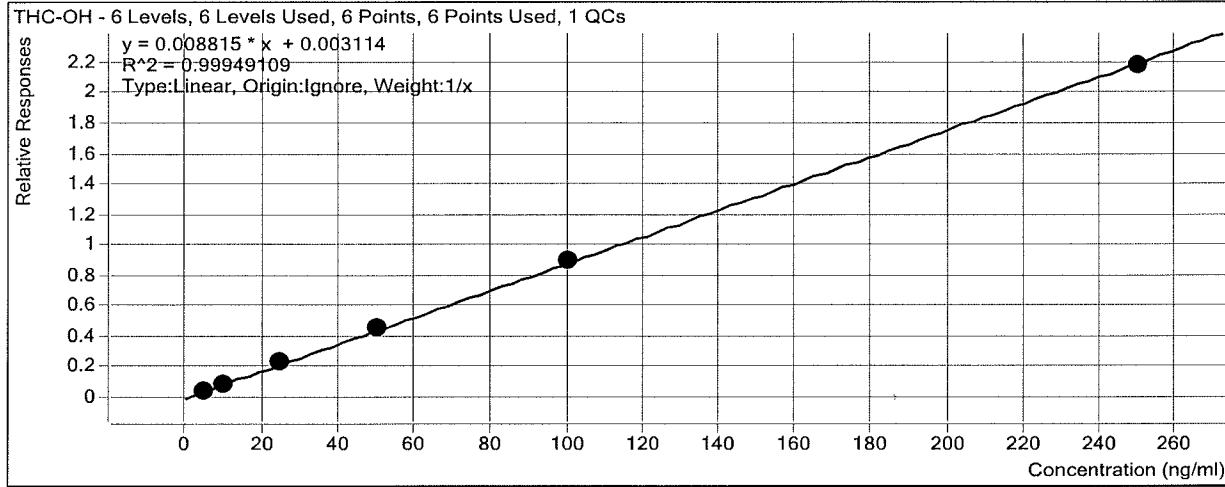
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin

Last Calib Update 7/11/2017 7:17 AM

Analyst Name ISP TOX

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



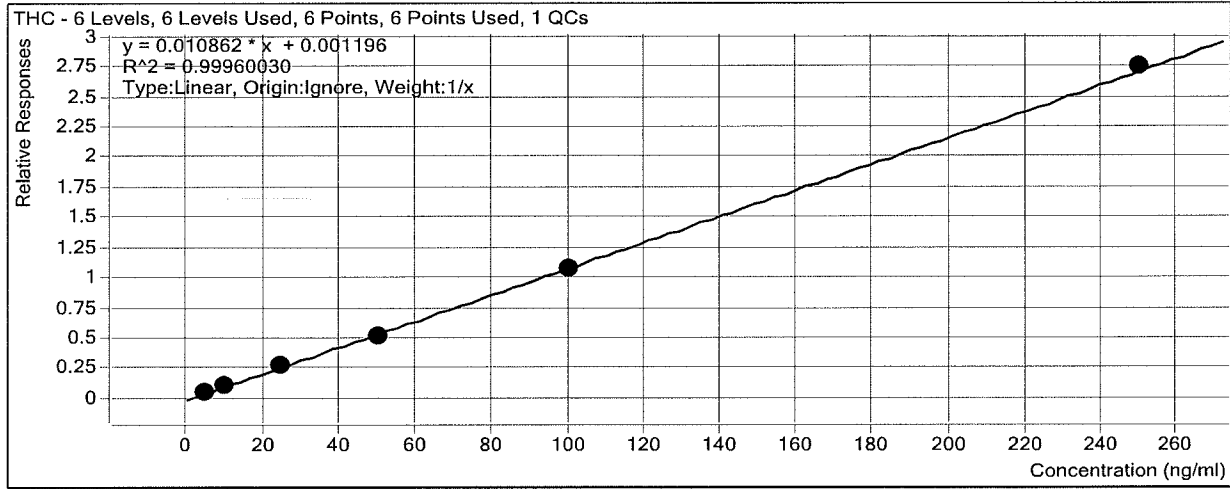
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	4.7	94.6
cal 3	3	<input checked="" type="checkbox"/>	10	9.8	97.9
QC 10	3	<input checked="" type="checkbox"/>	10	10.2	101.7
cal 4	4	<input checked="" type="checkbox"/>	25	26.2	104.9
cal 5	5	<input checked="" type="checkbox"/>	50	51.5	103.0
cal 6	6	<input checked="" type="checkbox"/>	100	101.0	101.0
cal 7	7	<input checked="" type="checkbox"/>	250	246.8	98.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin

Last Calib Update 7/11/2017 7:17 AM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.3	106.6
cal 3	3	<input checked="" type="checkbox"/>	10	9.8	98.1
QC 10	3	<input checked="" type="checkbox"/>	10	9.7	97.5
cal 4	4	<input checked="" type="checkbox"/>	25	24.6	98.6
cal 5	5	<input checked="" type="checkbox"/>	50	48.1	96.1
cal 6	6	<input checked="" type="checkbox"/>	100	99.5	99.5
cal 7	7	<input checked="" type="checkbox"/>	250	252.7	101.1

ISP FORENSICS - Cd'A

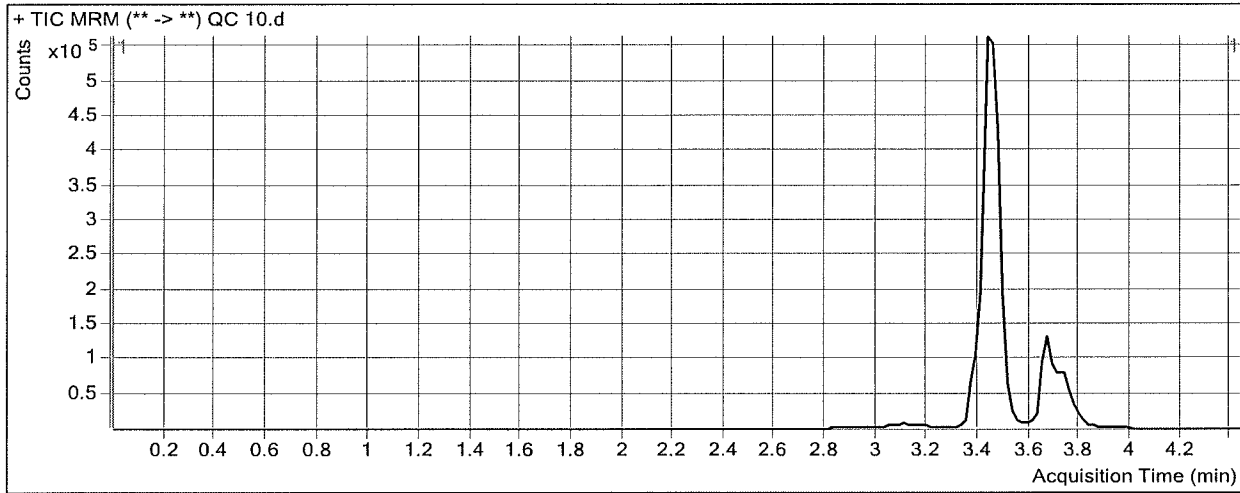
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 15:49 **Data File** QC 10.d
Sample Type QC **Sample Name** QC 10
Dilution 1 **Acq Method** Screen THC 11102016.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-COOH	3.406	111175	316004	0.3518	11.9059
THC-OH	3.453	180866	1949253	0.0928	10.1726
THC	3.740	6264	58498	0.1071	9.7482

ISP FORENSICS - Cd'A

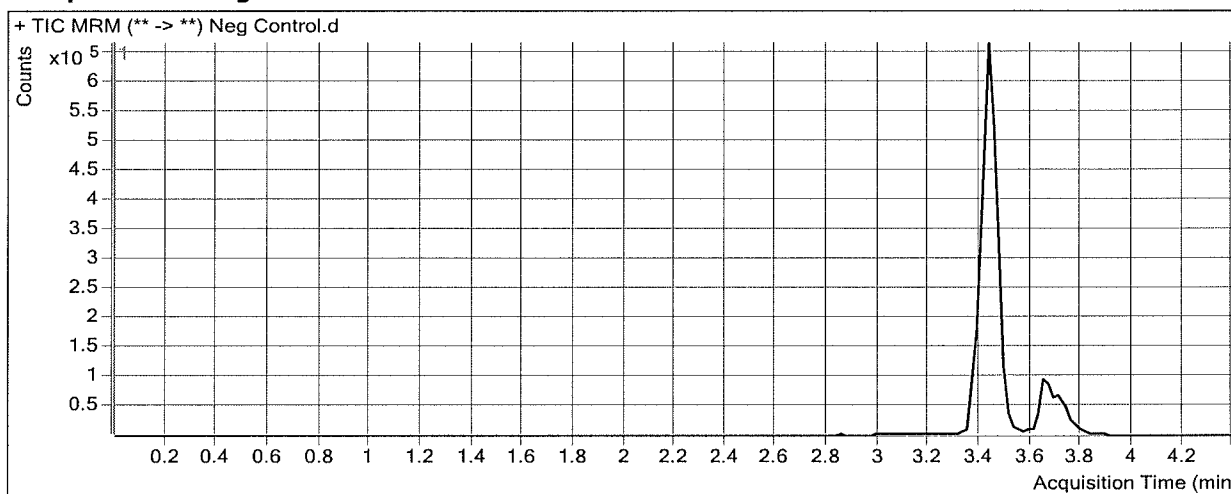
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 15:29 **Data File** Neg Control.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-a2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen negative blood lot 32632-1

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	23274	640818	0.0363	0.0000
THC-OH	3.392	24451	2073625	0.0118	0.9844

ISP FORENSICS - Cd'A

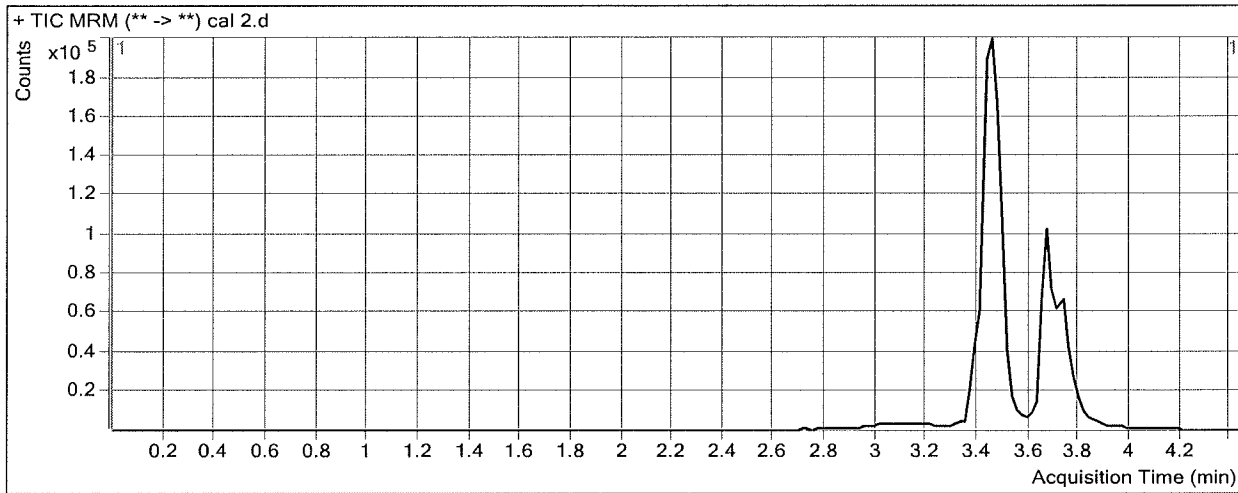
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 14:56 **Data File** cal 2.d
Sample Type Calibration **Sample Name** cal 2
Dilution 1 **Acq Method** Screen THC 11102016.m
Position PI-BI **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.406	32284	142783	0.2261	4.9667
THC-OH	3.453	34510	770423	0.0448	4.7281
THC	3.740	2612	44188	0.0591	5.3314

ISP FORENSICS - Cd'A

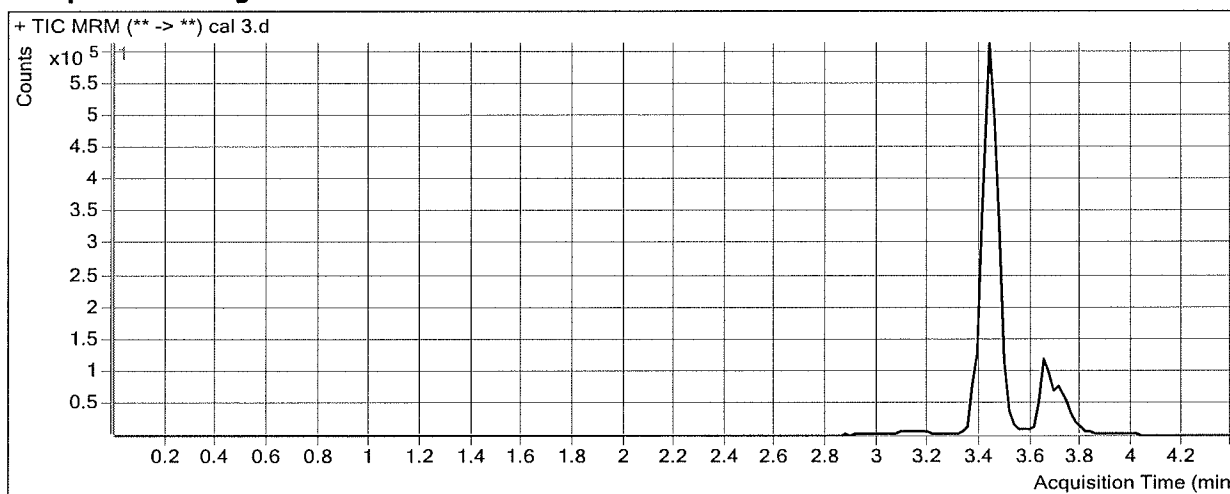
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 15:02 **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	3.406	122466	380657	0.3217	10.2447
THC-OH	3.433	164353	1838660	0.0894	9.7869
THC	3.720	4944	45867	0.1078	9.8130

ISP FORENSICS - Cd'A

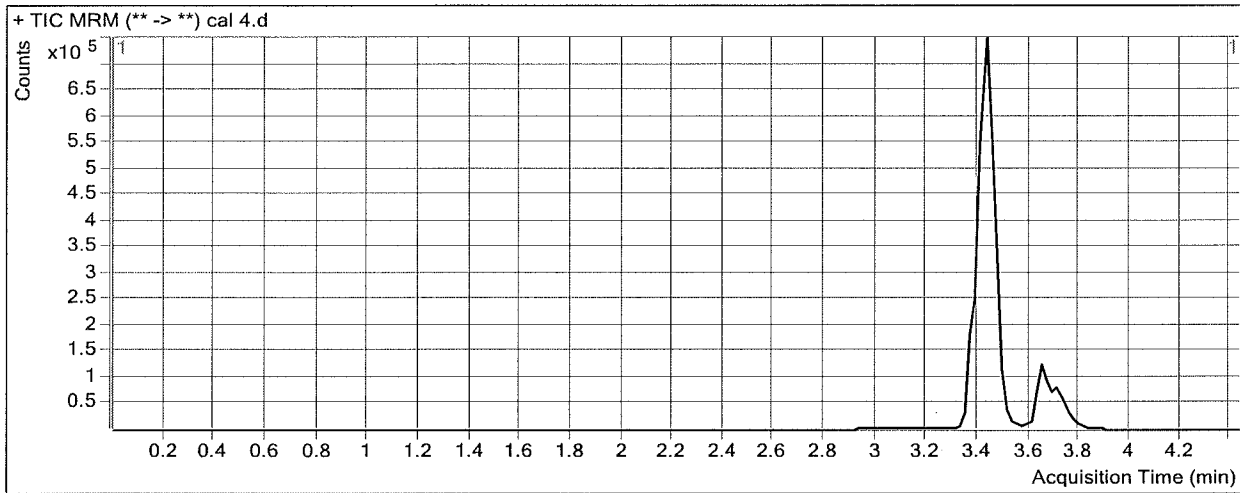
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 15:09 **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	3.386	301682	513400	0.5876	24.9217
THC-OH	3.433	444657	1898652	0.2342	26.2139
THC	3.740	13685	50893	0.2689	24.6450

ISP FORENSICS - Cd'A

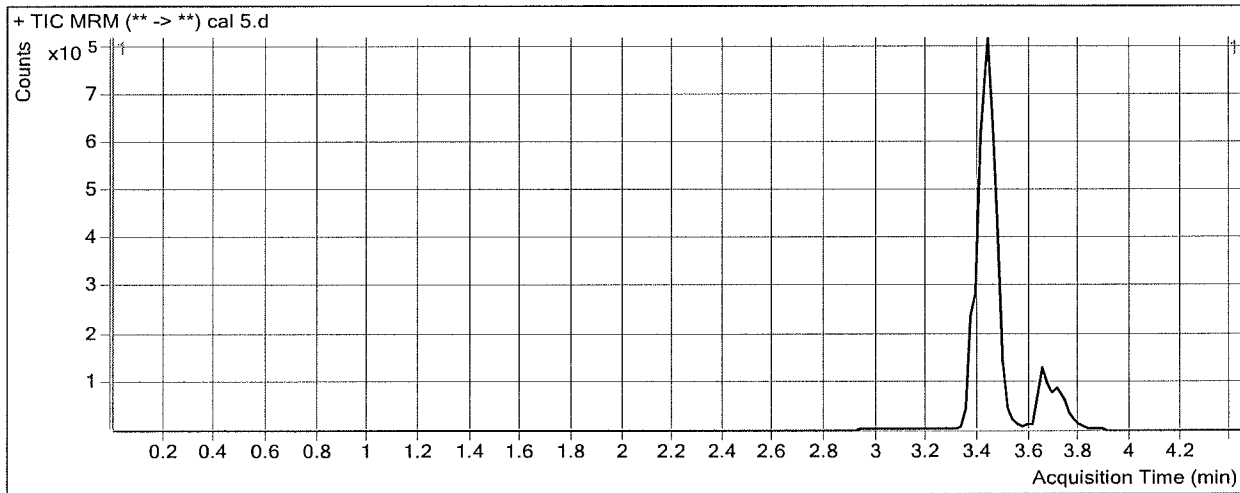
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 15:16 **Data File** cal 5.d
Sample Type Calibration **Sample Name** cal 5
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	450283	434921	1.0353	49.6346
THC-OH	3.433	831401	1818536	0.4572	51.5094
THC	3.740	26985	51585	0.5231	48.0503

ISP FORENSICS - Cd'A

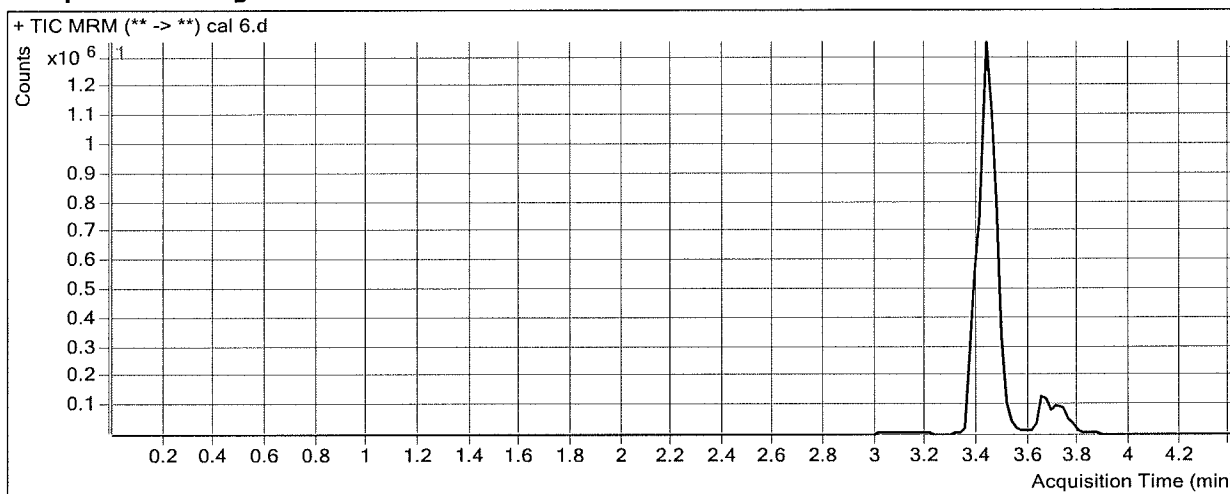
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 15:22 **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	3.386	1048972	545566	1.9227	98.6180
THC-OH	3.433	1871999	2095585	0.8933	100.9833
THC	3.740	62454	57724	1.0819	99.4964

ISP FORENSICS - Cd'A

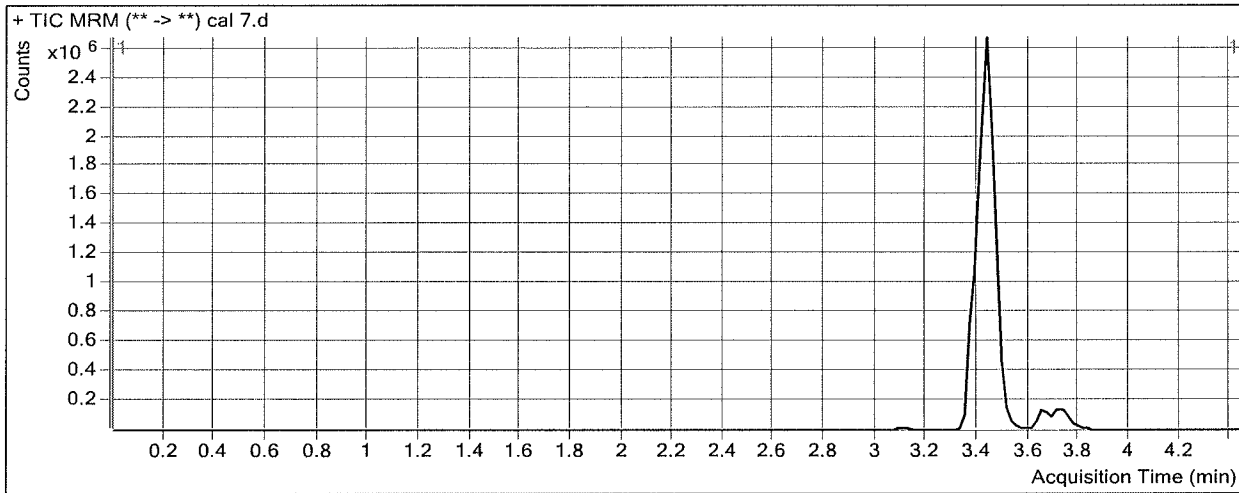
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\7-10-17 blood screen AM 25-26\QuantResults\71017 cann screen.batch.bin
Analysis Time 7/11/2017 7:17 AM **Analyst Name** ISP Tox
Report Time 7/11/2017 7:18 AM **Reporter Name** ISP Tox
Last Calib Update 7/11/2017 7:17 AM **Batch State** Processed

Analysis Info

Acq Time 2017-07-10 15:36 **Data File** cal 7.d
Sample Type Calibration **Sample Name** cal 7
Dilution 1 **Acq Method** Screen THC 11102016.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	2546116	542367	4.6945	251.6144
THC-OH	3.433	4987595	2289437	2.1785	246.7784
THC	3.740	173521	63198	2.7457	252.6639