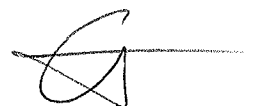


Bylee

Worklist: 1964

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-2011	1	96666	AM 25/AM 26 Blood MultiDrug/	
C2017-2085	2	97200	AM 25/AM 26 Blood MultiDrug/	
C2017-2091	1	97321	AM 25/AM 26 Blood MultiDrug/	
C2017-2092	1	97327	AM 25/AM 26 Blood MultiDrug/	
C2017-2093	1	97329	AM 25/AM 26 Blood MultiDrug/	
C2017-2094	1	97331	AM 25/AM 26 Blood MultiDrug/	
C2017-2095	1	97333	AM 25/AM 26 Blood MultiDrug/	
C2017-2101	1	97489	AM 25/AM 26 Blood MultiDrug/	
C2017-2141	1	97788	AM 25/AM 26 Blood MultiDrug/	
C2017-2142	1	97792	AM 25/AM 26 Blood MultiDrug/	
C2017-2143	1	97796	AM 25/AM 26 Blood MultiDrug/	
C2017-2146	1	97860	AM 25/AM 26 Blood MultiDrug/	
M2017-4354	1	97500	AM 25/AM 26 Blood MultiDrug/	
M2017-4429	1	97501	AM 25/AM 26 Blood MultiDrug/	
M2017-4556	1	97502	AM 25/AM 26 Blood MultiDrug/	
P2017-2436	2	97325	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 10-23-17

Analyst: Anne Nord

Plate lot#: 0495940

Plate Expiration: 12/12/2017

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

Mobile phase B 0.1% Formic acid in MeOH
Ethyl Acetate

Blank Blood Lot: 17J20718

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

LCMS-QQQ ID: 62340

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 2609543** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID 66759*
- 4. Pipette **250µL 0.5M ammonium hydroxide** buffer in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66729
Wait 5 minutes
- 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- 9. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**
- 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID66819
- 13. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST- ANALYTIC

- 1. Create batch and process data.
Worklist path: 102317 blood screen AM 25 Batch Name: 102317 MDS P1
MDS P2
- 2. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/5 the response of administrative control.
- 3. Did all QCs pass for each analyte? Y/N _____
- 4. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

Due to interfering compound methamphetamine could not be evaluated in this run. Samples were re-extracted and run 102417. 102417 blood screen AM 25 Batch 102417 MDS P1. Methamphetamine could not be evaluated in the re-extraction either. Samples that are positive for amphetamine will be evaluated for Methamphetamine, any samples that did not have a positive screen for amphetamine and have symptoms or no drugs were detected will be re-extracted and run.

Toxicology AM method 25 external prep information

working solution 10000 ng/ml in meoh mirtazapine, amitriptyline, codeine, diphenhydramine, 20000 ng/ml meoh morphine

Stock solution 1mg/ml 100 ul each for all except morphine 200 ul in 9400 ul meoh

Ppd 3/31/17 Exp: 3/31/18 lot 92117 by Amn

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

AM 25 control 100 ul working solution (92117) in 9900 ul neg blood

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

neg blood lot 321632-1

by Amn

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

neg blood lot 321632-1

by Amn

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

neg blood lot 17J20718

by Amn

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

Compound Method		p1 cal 1-2a				p1 cal 1-2a Results				Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.					
6-MAM	328.2 -> 165...	10/23/2017 3:05 PM	4.894	843	Infinity	328.2 -> 211...	4.68	6-MAM-D6	4.893	25930							
7-Aminoclonazepam	286.1 -> 121...	10/23/2017 3:05 PM	5.551	24173	95.35	286.1 -> 222...	192.27	7-Aminoclonazepam-D4	5.550	105688							
Acetyl Fentanyl	323.2 -> 105...	10/23/2017 3:05 PM	5.749	14554	50.04	323.2 -> 188...	39.20	Acetyl Fentanyl-D5	5.748	784220							
Acetyl Norfentanyl	219.1 -> 84.2	10/23/2017 3:05 PM	4.868	5648	27.45	219.1 -> 56.3	10.51	Acetyl Norfentanyl-D5	4.848	327660							
a-hydroxylalprazolam	325.1 -> 297...	10/23/2017 3:05 PM	6.379	4080	15.45	325.1 -> 215...	215.28	a-hydroxylalprazolam-D5	6.358	19355							
alpha-PVP	232.2 -> 91.0	10/23/2017 3:05 PM	5.518	95470	150.82	232.2 -> 77.1	43.85	alpha-PVP-d8	5.516	403911							
Alprazolam	309.1 -> 281...	10/23/2017 3:05 PM	6.465	36974	168.18	309.1 -> 205...	137.14	Alprazolam-D5	6.443	151650							
Amphetamine	136.1 -> 91.1	10/23/2017 3:05 PM	4.790	94153	59.45	136.1 -> 119...	30.26	Amphetamine-D11	4.729	98841							
Bupropion	240.1 -> 184...	10/23/2017 3:05 PM	5.701	88210	13805.80	240.1 -> 131...	26.58	Bupropion-D9	5.700	390146							
Carisoprodol	261.2 -> 176...	10/23/2017 3:05 PM	6.106	40888	63.09	261.2 -> 55.3	29.20	Carisoprodol-D7	6.106	230626							
Citalopram	325.2 -> 109...	10/23/2017 3:05 PM	6.013	143305	335.96	325.2 -> 262...	233.94	Citalopram-D6	6.012	636158							
Clonazepam	316.1 -> 269...	10/23/2017 3:05 PM	6.320	9213	118.50	316.1 -> 213...	14.02	Clonazepam-D4	6.300	11974							
Codeine	300.2 -> 215...	10/23/2017 3:05 PM	4.757	5377	25.06	300.2 -> 165...	37.31	Codeine-D6	4.735	21850							
Cyclobenzaprine	276.2 -> 214...	10/23/2017 3:05 PM	6.267	79991	22933.96	276.2 -> 231...	72.85	Cyclobenzaprine-D3	6.246	379891							
Dextromethorphan	272.2 -> 171...	10/23/2017 3:05 PM	6.043	37056	1518.85	272.2 -> 147...	53.60	Dextromethorphan-D3	6.023	180409							
Dextrophan	258.2 -> 157...	10/23/2017 3:05 PM	5.413	35141	1107.30	258.2 -> 133...	133.58	Dextrophan-D3	5.392	180588							
Diazepam	285.1 -> 193...	10/23/2017 3:05 PM	6.671	32959	46.31	285.1 -> 153...	26.73	Diazepam-D5	6.670	134608							
Dihydrocodeine	302.2 -> 198...	10/23/2017 3:05 PM	4.715	17879	445.50	302.2 -> 128...	819.77	Dihydrocodeine-D6	4.714	83274							
Diphenhydramine	256.2 -> 167...	10/23/2017 3:05 PM	5.985	204500	103.45	256.2 -> 152...	57.17	Diphenhydramine-D3	5.985	1052419							
Doxylamine	271.2 -> 182...	10/23/2017 3:05 PM	5.657	176342	183.78	271.2 -> 167...	69.41	Doxylamine-D5	5.635	891555							
EDDP	279.2 -> 235...	10/23/2017 3:05 PM	6.021	11596	72.82	279.2 -> 250...	135.33	EDDP-D3	6.061	5161							
Fentanyl	337.2 -> 105...	10/23/2017 3:05 PM	5.950	20272	45.69	337.2 -> 188...	28.63	Fentanyl-D5	5.950	815703							
Fluoxetine	310.1 -> 44.3	10/23/2017 3:05 PM	6.241	216299	164.87	310.1 -> 148...	44.86	Oxycodone-D6	4.895	142486							
Hydrocodone	300.2 -> 198...	10/23/2017 3:05 PM	4.980	21549	87.60	300.2 -> 128...	35.12	Hydrocodone-D6	4.977	107682							
Hydromorphone	286.2 -> 184...	10/23/2017 3:05 PM	4.378	12620	66.58	286.2 -> 157...	55.28	Hydromorphone-D6	4.357	48521							
Ketamine	238.1 -> 125...	10/23/2017 3:05 PM	5.374	59729	10852.05	238.1 -> 220...	15.59	Ketamine-D4	5.353	206993							
Meperbamate	219.1 -> 158...	10/23/2017 3:05 PM	5.641	8651	Infinity	219.1 -> 97.1	5.86	Meperbamate-D7	5.620	46392							
Methadone	310.2 -> 265...	10/23/2017 3:05 PM	6.301	155259	52.16	310.2 -> 105...	104.33	Methadone-D9	6.280	836963							
Morphine	286.2 -> 201...	10/23/2017 3:05 PM	4.076	3124	45.92	286.2 -> 165...	28.74	Morphine-D6	4.074	1897							
Naloxone	328.2 -> 309...	10/23/2017 3:05 PM	4.732	11101	57.23	328.2 -> 211...	85.20	Naloxone-D5	4.712	90224							
Naltrexol	344.2 -> 326...	10/23/2017 3:05 PM	4.913	56422	1655.91	344.2 -> 308...	47.53	Naltrexol-D3	4.892	217887							
Naltrexone	342.2 -> 324...	10/23/2017 3:05 PM	4.853	26429	165.25	342.2 -> 55.3	68.14	Naltrexone-D3	4.832	136076							
Norbuprenorphine	414.3 -> 101...	10/23/2017 3:05 PM	5.786	4776	21.10	414.3 -> 57.3	14.06	Norbuprenorphine-D3	5.785	24315							
Nordiazepam	271.1 -> 140...	10/23/2017 3:05 PM	6.533	16034	Infinity	271.1 -> 208...	93.59	Nordiazepam-D5	6.532	44568							
Norfentanyl	233.2 -> 84.2	10/23/2017 3:05 PM	5.334	112136	732.40	233.2 -> 55.3	83.83	Norfentanyl-D5	5.333	488239							
Norhydrocodone	286.2 -> 199...	10/23/2017 3:05 PM	4.920	1414	80.38	286.2 -> 171...	4.15	Norhydrocodone-D3	4.920	37750							
Noroxycodone	302.1 -> 284...	10/23/2017 3:05 PM	4.877	18207	40.68	302.1 -> 186...	22.38	Noroxycodone-D3	4.856	74424							
O-desmethyl-tramadol	250.2 -> 58.3	10/23/2017 3:05 PM	4.905	151145	126.97	250.2 -> 42.3	14.52	O-desmethyl-tramadol-...	4.905	638229							
Oxazepam	287.1 -> 240...	10/23/2017 3:05 PM	6.366	8099	19.72	287.1 -> 268...	4.43	Oxazepam-D5	6.365	34939							
Oxycodone	316.2 -> 298...	10/23/2017 3:05 PM	4.895	29142	Infinity	316.2 -> 241...	1296...	Oxycodone-D6	4.895	142486							
Oxycodone	302.1 -> 284...	10/23/2017 3:05 PM	4.173	22798	211.47	302.1 -> 227...	37.55	Oxycodone-D3	4.171	103998							
Phentemine	150.1 -> 65.2	10/23/2017 3:05 PM	5.052	64376	Infinity	150.1 -> 133...	Infinity	Phentemine-D5	5.092	308741							
Promethazine	285.1 -> 86.2	10/23/2017 3:05 PM	6.225	229773	996.21	285.1 -> 71.3	69.60	Promethazine-D3	6.224	1305708							
Quetiapine	384.2 -> 253...	10/23/2017 3:05 PM	6.193	166478	1797.80	384.2 -> 221...	984.20	Quetiapine-D8	6.172	220612							
Sertaline	306.1 -> 158...	10/23/2017 3:05 PM	6.446	59152	325.13	306.1 -> 275...	9713...	Sertaline-D3	6.444	291684							
Sufentanil	387.2 -> 238...	10/23/2017 3:05 PM	6.173	12891	48.58	387.2 -> 111...	113.56	Sufentanil-D5	6.172	500149							

Not evaluated

A

[Signature]

Compound Name	Method	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Qualifier 1 M...	Transition	MI	S/N	Qualifier 1...	ISTD Method Name	RT	Resp.
Temazepam		301.1 -> 255...	10/23/2017 3:05 PM	6.507	42657	70.50		301.1 -> 283...			12.73		Temazepam-D5	6.506	203522
Tramadol		264.2 -> 58.3	10/23/2017 3:05 PM	5.432	192382	81.60		264.2 -> 43.3			3.83		Tramadol-13C-D3	5.432	894402
Trazodone		372.2 -> 176...	10/23/2017 3:05 PM	6.092	129257	80.32		372.2 -> 148...			103.14		Trazodone-D6	6.072	551315
Venlafaxine		278.2 -> 58.3	10/23/2017 3:05 PM	5.777	177109	221.53		278.2 -> 260...			18.70		Venlafaxine-D6	5.776	770584
Zolpidem		308.2 -> 235...	10/23/2017 3:05 PM	5.875	112259	30778.76		308.2 -> 263...			179.62		Zolpidem-D6	5.853	582257

Compound Method	p1 negative	p1 negative Results	Qualifier 1 M...	Qualifier 1...	ISTD Method	ISTD Results						
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.
6-MAM	328.2 -> 165...	10/23/2017 3:25 PM					328.2 -> 211...			6-MAM-D6	4.873	28166
7-Aminoclonazepam	286.1 -> 121...	10/23/2017 3:25 PM					286.1 -> 222...			7-Aminoclonazepam-D4	5.550	101178
Acetyl Fentanyl	323.2 -> 105...	10/23/2017 3:25 PM					323.2 -> 188...			Acetyl Fentanyl-D5	5.728	779587
Acetyl Norfentanyl	219.1 -> 84.2	10/23/2017 3:25 PM	4.889	171	4.53		219.1 -> 56.3		2.23	Acetyl Norfentanyl-D5	4.848	319578
a-hydroxylalprazolam	325.1 -> 297...	10/23/2017 3:25 PM					325.1 -> 215...			a-hydroxylalprazolam-D5	6.378	19406
alpha-PVP	232.2 -> 91.0	10/23/2017 3:25 PM					232.2 -> 77.1			alpha-PVP-d8	5.496	399255
Alprazolam	309.1 -> 281...	10/23/2017 3:25 PM					309.1 -> 205...			Alprazolam-D5	6.464	150224
Amphetamine	136.1 -> 91.1	10/23/2017 3:25 PM	4.952	12403	0.97		136.1 -> 119...			Amphetamine-D11	4.729	100397
Bupropion	240.1 -> 184...	10/23/2017 3:25 PM					240.1 -> 131...			Bupropion-D9	5.700	376153
Carisoprodol	261.2 -> 176...	10/23/2017 3:25 PM					261.2 -> 55.3			Carisoprodol-D7	6.106	220123
Citalopram	325.2 -> 109...	10/23/2017 3:25 PM					325.2 -> 262...			Citalopram-D6	6.012	614073
Clonazepam	316.1 -> 269...	10/23/2017 3:25 PM	6.463	316	1.87		316.1 -> 213...		0.30	Clonazepam-D4	6.300	11368
Codaine	300.2 -> 215...	10/23/2017 3:25 PM	4.415	27	0.31		300.2 -> 165...		0.40	Codaine-D6	4.735	22769
Cyclobenzaprine	276.2 -> 214...	10/23/2017 3:25 PM	6.267	177	0.82		276.2 -> 231...			Cyclobenzaprine-D3	6.246	368233
Dextromethorphan	272.2 -> 171...	10/23/2017 3:25 PM	6.349	66	0.45		272.2 -> 147...		0.54	Dextromethorphan-D3	6.043	170739
Dextropropofol	288.2 -> 157...	10/23/2017 3:25 PM	5.392	49	0.49		288.2 -> 133...			Dextropropofol-D3	5.392	181238
Diazepam	285.1 -> 193...	10/23/2017 3:25 PM	6.631	157	1.05		285.1 -> 153...			Diazepam-D5	6.670	130215
Dihydrocodeine	302.2 -> 198...	10/23/2017 3:25 PM	4.695	29	0.93		302.2 -> 128...		0.59	Dihydrocodeine-D6	4.694	82073
Diphenhydramine	256.2 -> 167...	10/23/2017 3:25 PM					256.2 -> 152...			Diphenhydramine-D3	5.985	964546
Doxylamine	271.2 -> 182...	10/23/2017 3:25 PM	5.697	522	1.28		271.2 -> 167...		0.90	Doxylamine-D5	5.635	827791
EDDP	279.2 -> 235...	10/23/2017 3:25 PM	5.756	217	2.01		279.2 -> 250...		1.20	EDDP-D3	6.021	144
Fentanyl	337.2 -> 105...	10/23/2017 3:25 PM	5.890	134	0.12		337.2 -> 188...			Fentanyl-D5	5.950	760285
Fluoxetine	310.1 -> 44.3	10/23/2017 3:25 PM	6.220	318	0.57		310.1 -> 148...			Oxycodone-D6	4.875	140946
Hydrocodone	300.2 -> 198...	10/23/2017 3:25 PM	4.878	69	0.80		300.2 -> 128...		32.55	Hydrocodone-D6	4.957	110431
Hydromorphone	286.2 -> 184...	10/23/2017 3:25 PM					286.2 -> 157...			Hydromorphone-D6	4.337	44385
Ketamine	238.1 -> 125...	10/23/2017 3:25 PM	5.334	825	1.15		238.1 -> 220...		0.35	Ketamine-D4	5.353	213495
Meperidine	219.1 -> 158...	10/23/2017 3:25 PM	6.089	1131	0.60		219.1 -> 97.1			Meperidine-D7	5.620	44348
Methadone	310.2 -> 265...	10/23/2017 3:25 PM	6.444	1264	0.73		310.2 -> 105...			Methadone-D9	6.300	797883
Methamphetamine	150.1 -> 91.1	10/23/2017 3:25 PM	4.951	23429...	217.04		150.1 -> 119...		178.65	Methamphetamine-D11	4.999	311107
Morphine	286.2 -> 201...	10/23/2017 3:25 PM	4.116	13	0.14		286.2 -> 165...			Morphine-D6	4.035	1956
Naloxone	328.2 -> 309...	10/23/2017 3:25 PM	4.732	28	0.42		328.2 -> 211...		1.08	Naloxone-D5	4.712	87425
Naltrexol	344.2 -> 326...	10/23/2017 3:25 PM	4.832	3326	39.13		344.2 -> 308...			Naltrexol-D3	4.892	215367
Naltrexone	342.2 -> 324...	10/23/2017 3:25 PM	4.731	38	0.52		342.2 -> 55.3		0.88	Naltrexone-D3	4.832	122515
Norbuprenorphine	414.3 -> 101...	10/23/2017 3:25 PM	6.090	75	1.20		414.3 -> 57.3		0.74	Norbuprenorphine-D3	5.785	22709
Nordiazepam	271.1 -> 140...	10/23/2017 3:25 PM	6.452	79	0.68		271.1 -> 208...		0.59	Nordiazepam-D5	6.552	47479
Norfentanyl	233.2 -> 84.2	10/23/2017 3:25 PM	5.579	62	1.10		233.2 -> 55.3		1.14	Norfentanyl-D5	5.313	500834
Norhydrocodone	286.2 -> 199...	10/23/2017 3:25 PM	4.880	116	0.99		286.2 -> 171...		0.87	Norhydrocodone-D3	4.920	37120
Noroxycodone	302.1 -> 284...	10/23/2017 3:25 PM	4.837	768	1.05		302.1 -> 186...		1.63	Noroxycodone-D3	4.856	75087
O-desmethyl-tramadol	250.2 -> 58.3	10/23/2017 3:25 PM	4.885	1139	1.94		250.2 -> 42.3		3.63	O-desmethyl-tramadol...	4.885	634718
Oxazepam	287.1 -> 240...	10/23/2017 3:25 PM	6.448	75	0.93		287.1 -> 268...		0.78	Oxazepam-D5	6.365	38023
Oxycodone	316.2 -> 298...	10/23/2017 3:25 PM	4.774	648	3.49		316.2 -> 241...		0.85	Oxycodone-D6	4.875	140946
Oxymorphone	302.1 -> 284...	10/23/2017 3:25 PM	4.394	236	1.49		302.1 -> 227...			Oxymorphone-D3	4.171	90048
Phentermine	150.1 -> 65.2	10/23/2017 3:25 PM					150.1 -> 133...			Phentermine-D5	5.092	300561
Promethazine	285.1 -> 86.2	10/23/2017 3:25 PM	6.204	235	0.64		285.1 -> 71.3		0.64	Promethazine-D3	6.224	11711...
Quetiapine	384.2 -> 253...	10/23/2017 3:25 PM	6.173	59	0.54		384.2 -> 221...			Quetiapine-D8	6.172	212405
Sertraline	306.1 -> 158...	10/23/2017 3:25 PM	6.547	417	2.47		306.1 -> 275...		5.09	Sertraline-D3	6.444	280310

Not Evaluated

Compound Method	p1 negative		p1 negative Results				Qualifier 1 M...	Qualifier 1 ...	ISTD Method	ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.
Temazepam	301.1 -> 255...	10/23/2017 3:25 PM	6.385	110	0.58	301.1 -> 283...				Temazepam-D5	6.506	205004
Tamadol	264.2 -> 58.3	10/23/2017 3:25 PM	5.432	3792	2.46	264.2 -> 43.3			1.39	Tamadol-13C-D3	5.411	862760
Trazodone	372.2 -> 176...	10/23/2017 3:25 PM	5.828	90	0.40	372.2 -> 148...			1.21	Trazodone-D6	6.072	532381
Venlafaxine	278.2 -> 58.3	10/23/2017 3:25 PM	5.655	3164	3.40	278.2 -> 260...				Venlafaxine-D6	5.776	748658
Zolpidem	308.2 -> 235...	10/23/2017 3:25 PM	5.936	145	0.61	308.2 -> 263...			0.81	Zolpidem-D6	5.853	573031

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.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.
6-MAM	328.2 -> 165...	10/23/2017 3:44 PM					328.2 -> 211...			6-MAM-D6	4.893	27639
7-Aminoclonazepam	286.1 -> 121...	10/23/2017 3:44 PM					286.1 -> 222...			7-Aminoclonazepam-D4	5.550	101832
Acetyl Fentanyl	323.2 -> 105...	10/23/2017 3:44 PM					323.2 -> 188...			Acetyl Fentanyl-D5	5.748	767650
Acetyl Norfentanyl	219.1 -> 84.2	10/23/2017 3:44 PM	4.929	34	0.45		219.1 -> 56.3			Acetyl Norfentanyl-D5	4.848	315131
a-hydroxylalprazolam	325.1 -> 297...	10/23/2017 3:44 PM					325.1 -> 215...			a-hydroxylalprazolam-D5	6.378	16487
alpha-PVP	232.2 -> 91.0	10/23/2017 3:44 PM					232.2 -> 77.1			alpha-PVP-d8	5.516	395932
Alprazolam	309.1 -> 281...	10/23/2017 3:44 PM	6.302	1220	7.71		309.1 -> 205...			Alprazolam-D5	6.464	149188
Amphetamine	136.1 -> 91.1	10/23/2017 3:44 PM	4.952	18139	11.17		136.1 -> 119...			Amphetamine-D11	4.729	95669
Bupropion	240.1 -> 184...	10/23/2017 3:44 PM					240.1 -> 131...			Bupropion-D9	5.680	372349
Carisoprodol	261.2 -> 176...	10/23/2017 3:44 PM					261.2 -> 55.3			Carisoprodol-D7	6.126	229744
Citalopram	325.2 -> 109...	10/23/2017 3:44 PM	5.992	197	0.35		325.2 -> 262...			Citalopram-D6	6.012	585984
Clonazepam	316.1 -> 269...	10/23/2017 3:44 PM	6.483	331	1.03		316.1 -> 213...		0.59	Clonazepam-D4	6.300	12072
Codeine	300.2 -> 215...	10/23/2017 3:44 PM	4.757	40339	503.36		300.2 -> 165...		143.15	Codeine-D6	4.735	20494
Cyclobenzaprine	276.2 -> 214...	10/23/2017 3:44 PM	6.042	141	1.36		276.2 -> 231...		1.22	Cyclobenzaprine-D3	6.266	362573
Dextromethorphan	272.2 -> 171...	10/23/2017 3:44 PM	6.023	77	0.38		272.2 -> 147...		2.65	Dextromethorphan-D3	6.043	164847
Dextrophan	258.2 -> 157...	10/23/2017 3:44 PM	5.740	41	0.71		258.2 -> 133...			Dextrophan-D3	5.392	174363
Diazepam	285.1 -> 193...	10/23/2017 3:44 PM	6.306	972	1.50		285.1 -> 153...			Diazepam-D5	6.670	129498
Dihydrocodeine	302.2 -> 198...	10/23/2017 3:44 PM	4.776	27	0.59		302.2 -> 128...		1.82	Dihydrocodeine-D6	4.714	78793
Diphenhydramine	256.2 -> 167...	10/23/2017 3:44 PM	5.985	23901...	876.68		256.2 -> 152...		746.27	Diphenhydramine-D3	5.985	955191
Doxylamine	271.2 -> 182...	10/23/2017 3:44 PM					271.2 -> 167...			Doxylamine-D5	5.635	819188
EDDP	279.2 -> 235...	10/23/2017 3:44 PM	5.858	70	0.80		279.2 -> 250...			EDDP-D3	6.041	2791
Fentanyl	337.2 -> 105...	10/23/2017 3:44 PM	5.930	39	0.72		337.2 -> 188...			Fentanyl-D5	5.950	766943
Fluoxetine	310.1 -> 44.3	10/23/2017 3:44 PM	6.118	244	0.49		310.1 -> 148...		1.41	Oxycodone-D6	4.875	136578
Hydrocodone	300.2 -> 198...	10/23/2017 3:44 PM	4.757	23696	266.38		300.2 -> 128...		155.05	Hydrocodone-D6	4.977	107113
Hydromorphone	286.2 -> 184...	10/23/2017 3:44 PM	4.076	26353	110.79		286.2 -> 157...		88.19	Hydromorphone-D6	4.337	44294
Ketamine	238.1 -> 125...	10/23/2017 3:44 PM	5.354	864	1.63		238.1 -> 220...		0.41	Ketamine-D4	5.353	204225
Meperbarmate	219.1 -> 158...	10/23/2017 3:44 PM					219.1 -> 97.1			Meperbarmate-D7	5.620	44974
Methadone	310.2 -> 265...	10/23/2017 3:44 PM	6.444	1229	0.36		310.2 -> 105...			Methadone-D9	6.300	799360
Methamphetamine	166.1 -> 91.1	10/23/2017 3:44 PM	4.951	23554...	203.37		166.1 -> 119...		85.70	Methamphetamine-D11	4.909	288504
Morphine	286.2 -> 201...	10/23/2017 3:44 PM	4.076	50050	855.86		286.2 -> 165...		533.10	Morphine-D6	4.055	1890
Naloxone	328.2 -> 309...	10/23/2017 3:44 PM	5.015	21	0.67		328.2 -> 211...		48.04	Naloxone-D5	4.712	83463
Naltrexol	344.2 -> 326...	10/23/2017 3:44 PM	4.852	2525	6.41		344.2 -> 308...			Naltrexol-D3	4.892	200028
Naltrexone	342.2 -> 324...	10/23/2017 3:44 PM	5.279	44	1.12		342.2 -> 55.3		1.01	Naltrexone-D3	4.832	124214
Norbuprenorphine	414.3 -> 101...	10/23/2017 3:44 PM	5.826	100	1.72		414.3 -> 57.3			Norbuprenorphine-D3	5.806	22728
Nordiazepam	271.1 -> 140...	10/23/2017 3:44 PM	6.493	33	0.56		271.1 -> 208...		1.49	Nordiazepam-D5	6.532	46046
Norfentanyl	233.2 -> 84.2	10/23/2017 3:44 PM	5.273	94	1.24		233.2 -> 55.3		1.38	Norfentanyl-D5	5.313	464236
Northydrocodone	286.2 -> 199...	10/23/2017 3:44 PM	4.860	134	3.10		286.2 -> 171...		12.13	Northydrocodone-D3	4.920	37761
Noroxycodone	302.1 -> 284...	10/23/2017 3:44 PM	4.837	956	0.84		302.1 -> 186...		0.79	Noroxycodone-D3	4.856	73058
O-desmethyl-tramadol	250.2 -> 58.3	10/23/2017 3:44 PM	4.905	852	1.82		250.2 -> 42.3		5.27	O-desmethyl-tramadol...	4.885	615821
Oxazepam	287.1 -> 240...	10/23/2017 3:44 PM	6.406	76	1.01		287.1 -> 268...		0.47	Oxazepam-D5	6.365	33479
Oxycodone	316.2 -> 298...	10/23/2017 3:44 PM	4.794	707	4.12		316.2 -> 241...		0.61	Oxycodone-D6	4.875	136578
Oxymorphone	302.1 -> 284...	10/23/2017 3:44 PM	4.173	241	0.72		302.1 -> 227...		0.34	Oxymorphone-D3	4.171	76382
Phentermine	150.1 -> 65.2	10/23/2017 3:44 PM	5.438	478	0.56		150.1 -> 133...			Phentermine-D5	5.092	281547
Promethazine	285.1 -> 86.2	10/23/2017 3:44 PM	6.407	52	0.20		285.1 -> 71.3		0.39	Promethazine-D3	6.224	1214665
Quetiapine	384.2 -> 253...	10/23/2017 3:44 PM	6.254	53	0.69		384.2 -> 221...			Quetiapine-D8	6.172	208472
Sepraline	306.1 -> 158...	10/23/2017 3:44 PM	6.648	83	0.45		306.1 -> 275...		5.73	Sepraline-D3	6.444	277909

Not Evaluated

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.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.
Temazepam	301.1 -> 255...	10/23/2017 3:44 PM	6.405	388	0.60	1	301.1 -> 283...	1	15.54	Temazepam-D5	6.506	202217
Tamadol	264.2 -> 58.3	10/23/2017 3:44 PM	5.432	4181	3.23	1	264.2 -> 43.3	1	1.68	Tamadol-13C-D3	5.411	832062
Trazodone	372.2 -> 176...	10/23/2017 3:44 PM				1	372.2 -> 148...	1		Trazodone-D6	6.072	541939
Venlafaxine	278.2 -> 58.3	10/23/2017 3:44 PM	5.930	277	0.74	1	278.2 -> 260...	1		Venlafaxine-D6	5.776	733128
Zolpidem	308.2 -> 235...	10/23/2017 3:44 PM	5.733	99	0.37	1	308.2 -> 263...	1	1.03	Zolpidem-D6	5.853	558532

Compound	Method	p2 cal 1-2b	p2 cal 1-2b Results				Qualifier 1 M...	Qualifier 1...	ISTD Method	ISTD Results		
Name	Transition	Acq. Date-Time	RT	Resp	S/N	MI	Transition	MI	S/N	Name	RT	Resp
7-aminoflunitrazepam	284.1 -> 135...	10/23/2017 3:15 PM	5.742	31813	117.36	284.1 -> 93.2	53.39	7-aminoflunitrazepam...	5.720	160619		
alpha-hydroxymidazolam	342.2 -> 324...	10/23/2017 3:15 PM	6.407	50342	Infinity	342.1 -> 203...	183.80	alpha-hydroxymidazola...	6.407	255796		
Amtripyline	278.2 -> 91.2	10/23/2017 3:15 PM	6.315	174345	Infinity	278.2 -> 105...	Infinity	Amtripyline-D3	6.334	340736		
Amoxapine	314.1 -> 271...	10/23/2017 3:15 PM	6.288	50055	454.73	314.1 -> 193...	3643...	Amtripyline-D3	6.334	340736		
Benzylegonine	290.1 -> 168...	10/23/2017 3:15 PM	5.352	9255	794.05	290.1 -> 105...	46.79	Benzylegonine-D8	5.330	3405		
Carbamazepine	237.1 -> 193...	10/23/2017 3:15 PM	6.117	18043	25.00	237.1 -> 194...	Infinity	Carbamazepine-13C6	6.136	765632		
Chlordiazepoxide	300.1 -> 227...	10/23/2017 3:15 PM	6.535	16950	30.40	300.1 -> 282...	19.47	Chlordiazepoxide-D5	6.514	123209		
Clomipramine	315.2 -> 86.2	10/23/2017 3:15 PM	6.512	245872	1542.60	315.2 -> 58.3	Infinity	Clomipramine-D3	6.512	1229069		
Cocaine	304.2 -> 182...	10/23/2017 3:15 PM	5.575	117172	Infinity	304.2 -> 105...	9100...	Cocaine-D3	5.574	434266		
Desipramine	267.2 -> 72.3	10/23/2017 3:15 PM	6.276	191872	24423.38	267.2 -> 44.3	149.57	Desipramine-D3	6.276	943439		
Doxepin	280.2 -> 107...	10/23/2017 3:15 PM	6.090	85511	93.03	280.2 -> 77.2	17001...	Doxepin-D3	6.069	406611		
Estazolam	295.1 -> 267...	10/23/2017 3:15 PM	6.393	35168	6940.73	295.1 -> 205...	111.38	Estazolam-D5	6.372	155180		
Flunitrazepam	314.1 -> 268...	10/23/2017 3:15 PM	6.411	31322	Infinity	314.1 -> 239...	2155...	Flunitrazepam-D7	6.410	7500		
Flurazepam	388.2 -> 315...	10/23/2017 3:15 PM	6.294	103164	714.54	388.2 -> 317...	203.85	Zopiclone-D4	6.293	64293		
Imipramine	281.2 -> 86.2	10/23/2017 3:15 PM	6.294	284609	33039.38	281.2 -> 58.3	Infinity	Imipramine-D3	6.293	743870		
Levamisole	205.1 -> 91.2	10/23/2017 3:15 PM	4.920	22992	Infinity	205.1 -> 178...	66.61	Cocaine-D3	5.574	434266		
Maprotiline	278.2 -> 91.2	10/23/2017 3:15 PM	6.315	175285	Infinity	278.2 -> 117...	Infinity	Meperidine-D4	5.584	202508		
MDA	180.1 -> 163...	10/23/2017 3:15 PM	4.943	27602	66.43	180.1 -> 105...	32.05	MDA-D5	4.943	141643		
MDA	208.1 -> 163...	10/23/2017 3:15 PM	5.242	76103	133.94	208.1 -> 105...	Infinity	MDA-D6	5.222	366180		
MDMA	194.1 -> 163...	10/23/2017 3:15 PM	5.063	61958	152.47	194.1 -> 105...	232.39	MDMA-D6	5.062	35064		
Meperidine	248.2 -> 220...	10/23/2017 3:15 PM	5.584	41911	174.74	248.2 -> 174...	156.21	Meperidine-D4	5.584	202508		
Methylphenidate	234.2 -> 84.2	10/23/2017 3:15 PM	5.505	212841	Infinity	234.2 -> 56.3	Infinity	Meperidine-D4	5.584	202508		
Metoprolol	268.2 -> 116...	10/23/2017 3:15 PM	5.438	21112	133.44	268.2 -> 56.3	Infinity	Meperidine-D4	5.584	202508		
Midazolam	326.1 -> 223...	10/23/2017 3:15 PM	6.490	19274	65.06	326.1 -> 249...	189.19	Midazolam-D4	6.469	293544		
Mirtazapine	266.2 -> 195...	10/23/2017 3:15 PM	5.704	67853	Infinity	266.2 -> 72.3	Infinity	Midazolam-D4	6.469	293544		
Mirtazapine	399.2 -> 174...	10/23/2017 3:15 PM	6.059	34920	62.47	399.2 -> 238...	41.37	Carbamazepine-13C6	6.136	765632		
Normeperidine	234.1 -> 42.3	10/23/2017 3:15 PM	5.587	55425	Infinity	234.1 -> 160...	11262...	Normeperidine-D4	5.586	182435		
Normeperidine	326.2 -> 44.3	10/23/2017 3:15 PM	6.184	27780	127.68	326.2 -> 252...	1599...	Normeperidine-D4	6.184	116058		
Nortriptyline	264.2 -> 91.2	10/23/2017 3:15 PM	6.297	61044	Infinity	264.2 -> 233...	Infinity	Nortriptyline-D3	6.316	312704		
Ondansetron	294.2 -> 184...	10/23/2017 3:15 PM	5.740	51589	37.34	294.2 -> 212...	8632...	Pentazocine-13C3	5.659	328419		
Pentazocine	286.2 -> 218...	10/23/2017 3:15 PM	5.659	80092	25717.20	286.2 -> 41.3	Infinity	Pentazocine-13C3	5.659	328419		
Phenazepam	349.0 -> 206...	10/23/2017 3:15 PM	6.467	26340	68.86	349.0 -> 183...	76.60	Phenazepam-D4	6.466	8694		
Phencyclidine	244.2 -> 86.2	10/23/2017 3:15 PM	5.892	156379	389.83	244.2 -> 91.1	232.98	Phencyclidine-D5	5.871	692874		
Phenylethanolamine	253.1 -> 104...	10/23/2017 3:15 PM	6.053	1392	Infinity	253.1 -> 182...	Infinity	Phenylethanolamine-D10	6.033	5114		
Prazepam	325.1 -> 271...	10/23/2017 3:15 PM	6.917	159294	500.06	325.1 -> 140...	102.02	Prazepam-D5	6.915	707815		
Primidone	219.1 -> 91.2	10/23/2017 3:15 PM	5.425	4518	10.19	219.1 -> 162...	35.88	Prazepam-D5	6.915	707815		
Propoxyphene	340.2 -> 58.3	10/23/2017 3:15 PM	6.184	181795	380.58	340.2 -> 266...	123.60	Propoxyphene-D11	6.182	201381		
Propoxyphene	264.2 -> 155...	10/23/2017 3:15 PM	6.235	434466	Infinity	264.2 -> 161...	Infinity	Nortriptyline-D3	6.316	312704		
Pseudoephedrine	166.1 -> 148...	10/23/2017 3:15 PM	4.580	825988	172.07	166.1 -> 133...	116.78	Pseudoephedrine-D3	4.579	392443		
Tapentadol	222.2 -> 107...	10/23/2017 3:15 PM	5.445	115420	Infinity	222.2 -> 121...	328.29	Tapentadol-D3	5.445	569462		
Trimipramine	295.2 -> 100...	10/23/2017 3:15 PM	6.373	311370	561.17	295.2 -> 58.3	453.33	Trimipramine-D3	6.372	1446009		
Verapamil	455.3 -> 165...	10/23/2017 3:15 PM	6.139	136544	23678.07	455.3 -> 150...	8933...	Trimipramine-D3	6.372	1446009		
Zaleplon	306.1 -> 236...	10/23/2017 3:15 PM	6.228	28705	130.03	306.1 -> 264...	35.88	Zaleplon-D4	6.227	113658		
Zopiclone	389.1 -> 244...	10/23/2017 3:15 PM	5.774	14801	171.66	389.1 -> 216...	40.79	Zopiclone-D4	5.774	64293		

Compound Method		p2 negative		p2 negative Results			Qualifier 1 M...		Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	10/23/2017 3:34 PM					284.1 -> 93.2			7-aminoflunitrazepam-D7	5.720	167670		
alpha-hydroxymidazolam	342.1 -> 324...	10/23/2017 3:34 PM					342.1 -> 203...			alpha-hydroxymidazolam-...	6.427	254253		
Amiripylone	278.2 -> 91.2	10/23/2017 3:34 PM					278.2 -> 105...			Amiripylone-D3	6.334	349229		
Amoxapine	314.1 -> 271...	10/23/2017 3:34 PM					314.1 -> 193...			Amiripylone-D3	6.334	349229		
Benzoyllecgonine	290.1 -> 168...	10/23/2017 3:34 PM					290.1 -> 105...			Benzoyllecgonine-D8	5.350	3576		
Carbamazepine	237.1 -> 193...	10/23/2017 3:34 PM					237.1 -> 194...			Carbamazepine-13C6	6.136	798610		
Chlordiazepoxide	300.1 -> 227...	10/23/2017 3:34 PM					300.1 -> 282...			Chlordiazepoxide-D5	6.535	128437		
Ciomipramine	315.2 -> 86.2	10/23/2017 3:34 PM					315.2 -> 58.3			Ciomipramine-D3	6.512	11770...		
Cocaine	304.2 -> 182...	10/23/2017 3:34 PM					304.2 -> 105...			Cocaine-D3	5.574	436388		
Desipramine	267.2 -> 72.3	10/23/2017 3:34 PM					267.2 -> 44.3			Desipramine-D3	6.276	945001		
Doxepin	280.2 -> 107...	10/23/2017 3:34 PM					280.2 -> 77.2			Doxepin-D3	6.089	396976		
Estazolam	295.1 -> 267...	10/23/2017 3:34 PM					295.1 -> 205...			Estazolam-D5	6.372	158218		
Flunitrazepam	314.1 -> 268...	10/23/2017 3:34 PM					314.1 -> 239...			Flunitrazepam-D7	6.389	5972		
Flurazepam	388.2 -> 315...	10/23/2017 3:34 PM					388.2 -> 317...			Zopiclone-D4	5.774	72831		
Imipramine	281.2 -> 86.2	10/23/2017 3:34 PM					281.2 -> 58.3			Imipramine-D3	6.293	729017		
Levamisole	205.1 -> 91.2	10/23/2017 3:34 PM					205.1 -> 178...			Cocaine-D3	5.574	436388		
Maprotiline	278.2 -> 91.2	10/23/2017 3:34 PM					278.2 -> 117...			Meperidine-D4	5.584	203610		
MDA	180.1 -> 163...	10/23/2017 3:34 PM					180.1 -> 105...			MDA-D5	4.943	140661		
MDEA	208.1 -> 163...	10/23/2017 3:34 PM					208.1 -> 105...			MDEA-D6	5.222	360367		
MDMA	194.1 -> 163...	10/23/2017 3:34 PM					194.1 -> 105...			MDMA-D6	5.062	34268		
Meperidine	248.2 -> 220...	10/23/2017 3:34 PM					248.2 -> 174...			Meperidine-D4	5.584	203610		
Methylphenidate	234.2 -> 84.2	10/23/2017 3:34 PM					234.2 -> 56.3			Meperidine-D4	5.584	203610		
Metoprolol	268.2 -> 116...	10/23/2017 3:34 PM					268.2 -> 56.3			Meperidine-D4	5.584	203610		
Midazolam	326.1 -> 223...	10/23/2017 3:34 PM					326.1 -> 249...			Midazolam-D4	6.469	288639		
Mirtazapine	266.2 -> 195...	10/23/2017 3:34 PM					266.2 -> 72.3			Midazolam-D4	6.469	288639		
Mitragynine	399.2 -> 174...	10/23/2017 3:34 PM					399.2 -> 238...			Carbamazepine-13C6	6.136	798610		
Normeperidine	234.1 -> 42.3	10/23/2017 3:34 PM					234.1 -> 160...			Normeperidine-D4	5.586	182365		
Norpropoxyphene	326.2 -> 44.3	10/23/2017 3:34 PM					326.2 -> 252...			Normeperidine-D4	5.586	182365		
Nortriptyline	264.2 -> 91.2	10/23/2017 3:34 PM					264.2 -> 233...			Nortriptyline-D5	6.184	115812		
Ondansetron	294.2 -> 184...	10/23/2017 3:34 PM					294.2 -> 212...			Nortriptyline-D3	6.316	320592		
Pentazocine	286.2 -> 218...	10/23/2017 3:34 PM					286.2 -> 41.3			Pentazocine-13C3	5.659	339158		
Phenazepam	349.0 -> 206...	10/23/2017 3:34 PM					349.0 -> 183...			Pentazocine-13C3	5.659	339158		
Phencyclidine	244.2 -> 86.2	10/23/2017 3:34 PM					244.2 -> 91.1			Phenazepam-D4	6.466	10181		
Phenytoln	253.1 -> 104...	10/23/2017 3:34 PM					253.1 -> 182...			Phencyclidine-D5	5.871	723962		
Prazepam	325.1 -> 271...	10/23/2017 3:34 PM					325.1 -> 140...			Phenytoln-D10	6.033	6715		
Primidone	219.1 -> 91.2	10/23/2017 3:34 PM					219.1 -> 162...			Prazepam-D5	6.915	696156		
Propoxyphene	340.2 -> 58.3	10/23/2017 3:34 PM					340.2 -> 266...			Prazepam-D5	6.915	696156		
Protriptyline	264.2 -> 155...	10/23/2017 3:34 PM					264.2 -> 161...			Propoxyphene-D11	6.182	186454		
Pseudoephedrine	166.1 -> 148...	10/23/2017 3:34 PM					166.1 -> 133...			Nortriptyline-D3	6.316	320592		
Tapentadol	222.2 -> 107...	10/23/2017 3:34 PM					222.2 -> 121...			Pseudoephedrine-D3	4.579	383353		
Trimipramine	295.2 -> 100...	10/23/2017 3:34 PM					295.2 -> 58.3			Tapentadol-D3	5.445	558878		
Verapamil	455.3 -> 165...	10/23/2017 3:34 PM					455.3 -> 150...			Trimipramine-D3	6.372	13824...		
Zaleplon	306.1 -> 236...	10/23/2017 3:34 PM					306.1 -> 264...			Trimipramine-D3	6.372	13824...		
Zopiclone	389.1 -> 244...	10/23/2017 3:34 PM					389.1 -> 216...			Zaleplon-D4	6.227	114821		
										Zopiclone-D4	5.774	72831		



Compound	Method	p2 external control	p2 external control Results	Qualifier 1 M...	Qualifier 1 R...	ISTD Method	ISTD Results					
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	MI	Transition	MI	S/N	Name	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	10/23/2017 3:54 PM					284.1 -> 93.2			7-aminoflunitrazepam-D7	5.720	158562
alpha-hydroxymidazolam	342.1 -> 324...	10/23/2017 3:54 PM					342.1 -> 203...			alpha-hydroxymidazolam-...	6.407	249844
Amitriptyline	278.2 -> 91.2	10/23/2017 3:54 PM	6.336	12799...	Infinity		278.2 -> 105...		Infinity	Amitriptyline-D3	6.334	337038
Amoxapine	314.1 -> 271...	10/23/2017 3:54 PM					314.1 -> 193...			Amitriptyline-D3	6.334	337038
Benzylecgonine	290.1 -> 168...	10/23/2017 3:54 PM					290.1 -> 105...			Benzylecgonine-D8	5.330	3508
Carbamazepine	237.1 -> 193...	10/23/2017 3:54 PM					237.1 -> 194...			Carbamazepine-13C6	6.136	768016
Chlordiazepoxide	300.1 -> 227...	10/23/2017 3:54 PM					300.1 -> 282...			Chlordiazepoxide-D5	6.535	126428
Clomipramine	315.2 -> 86.2	10/23/2017 3:54 PM					315.2 -> 58.3			Clomipramine-D3	6.512	12118...
Cocaine	304.2 -> 182...	10/23/2017 3:54 PM					304.2 -> 105...			Cocaine-D3	5.574	419577
Desipramine	267.2 -> 72.3	10/23/2017 3:54 PM					267.2 -> 44.3			Desipramine-D3	6.276	907328
Doxepin	280.2 -> 107...	10/23/2017 3:54 PM					280.2 -> 77.2			Doxepin-D3	6.089	409433
Estazolam	295.1 -> 267...	10/23/2017 3:54 PM					295.1 -> 205...			Estazolam-D5	6.372	157700
Flunitrazepam	314.1 -> 268...	10/23/2017 3:54 PM					314.1 -> 239...			Flunitrazepam-D7	6.410	5742
Flurazepam	388.2 -> 315...	10/23/2017 3:54 PM					388.2 -> 317...			Zopiclone-D4	5.774	53227
Imipramine	281.2 -> 86.2	10/23/2017 3:54 PM					281.2 -> 58.3			Imipramine-D3	6.293	711779
Levamisole	205.1 -> 91.2	10/23/2017 3:54 PM					205.1 -> 178...			Cocaine-D3	5.574	419577
Maprotiline	278.2 -> 91.2	10/23/2017 3:54 PM	6.336	12760...	Infinity		278.2 -> 117...		91114...	Meperidine-D4	5.584	203745
MDA	180.1 -> 163...	10/23/2017 3:54 PM					180.1 -> 105...			MDA-D5	4.943	135185
MDEA	208.1 -> 163...	10/23/2017 3:54 PM					208.1 -> 105...			MDEA-D6	5.222	359303
MDMA	194.1 -> 163...	10/23/2017 3:54 PM					194.1 -> 105...			MDMA-D6	5.062	32361
Meperidine	248.2 -> 220...	10/23/2017 3:54 PM					248.2 -> 174...			Meperidine-D4	5.584	203745
Methylphenidate	234.2 -> 84.2	10/23/2017 3:54 PM					234.2 -> 56.3			Meperidine-D4	5.584	203745
Metoprolol	268.2 -> 116...	10/23/2017 3:54 PM					268.2 -> 56.3			Meperidine-D4	5.584	203745
Midazolam	326.1 -> 223...	10/23/2017 3:54 PM					326.1 -> 249...			Midazolam-D4	6.469	279395
Mirtazapine	266.2 -> 195...	10/23/2017 3:54 PM	5.704	666769	Infinity		266.2 -> 72.3		Infinity	Midazolam-D4	6.469	279395
Mitragynine	399.2 -> 174...	10/23/2017 3:54 PM					399.2 -> 238...			Carbamazepine-13C6	6.136	768016
Normeperidine	234.1 -> 42.3	10/23/2017 3:54 PM					234.1 -> 160...			Normeperidine-D4	5.586	177759
Norpropoxyphene	326.2 -> 44.3	10/23/2017 3:54 PM					326.2 -> 252...			Norpropoxyphene-D5	6.184	113515
Nortriptyline	264.2 -> 91.2	10/23/2017 3:54 PM					264.2 -> 233...			Nortriptyline-D3	6.316	299717
Ondansetron	294.2 -> 184...	10/23/2017 3:54 PM					294.2 -> 212...			Pentazocine-13C3	5.659	322928
Pentazocine	286.2 -> 218...	10/23/2017 3:54 PM					286.2 -> 41.3			Pentazocine-13C3	5.659	322928
Phenazepam	349.0 -> 206...	10/23/2017 3:54 PM					349.0 -> 183...			Phenazepam-D4	6.487	9158
Phencyclidine	244.2 -> 86.2	10/23/2017 3:54 PM					244.2 -> 91.1			Phencyclidine-D5	5.871	688474
Phenyltoin	253.1 -> 104...	10/23/2017 3:54 PM					253.1 -> 182...			Phenyltoin-D10	6.033	4563
Prazepam	325.1 -> 271...	10/23/2017 3:54 PM					325.1 -> 140...			Prazepam-D5	6.915	689165
Primidone	219.1 -> 91.2	10/23/2017 3:54 PM					219.1 -> 162...			Prazepam-D5	6.915	689165
Propoxyphene	340.2 -> 58.3	10/23/2017 3:54 PM					340.2 -> 266...			Propoxyphene-D11	6.182	180794
Protriptyline	264.2 -> 155...	10/23/2017 3:54 PM					264.2 -> 161...			Nortriptyline-D3	6.316	299717
Pseudoephedrine	166.1 -> 148...	10/23/2017 3:54 PM					166.1 -> 133...			Pseudoephedrine-D3	4.579	373188
Tapentadol	222.2 -> 107...	10/23/2017 3:54 PM					222.2 -> 121...			Tapentadol-D3	5.445	548953
Trimipramine	295.2 -> 100...	10/23/2017 3:54 PM					295.2 -> 58.3			Trimipramine-D3	6.372	13763...
Verapamil	455.3 -> 165...	10/23/2017 3:54 PM					455.3 -> 150...			Trimipramine-D3	6.372	13763...
Zaleplon	306.1 -> 236...	10/23/2017 3:54 PM					306.1 -> 264...			Zaleplon-D4	6.227	114676
Zopiclone	389.1 -> 244...	10/23/2017 3:54 PM					389.1 -> 216...			Zopiclone-D4	5.774	53227

Amitriptyline
 MDEA-D6
 can not
 resolve
 on LCMS



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

Extraction Date: 10-23-17

Analyst: Anne Nord

PRE-ANALYTIC

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

1. Ensure all solutions are within expiration date.
 - Mobile Phase A: **10mM Amm Formate**
 - 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: 102317 hood screen am 25-26

ANALYTIC

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

POST-ANALYTIC

1. Open quantitation software and create a new quantitation batch. Batch name: _____
2. Make any necessary integration changes.
3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC and +/- 2% or +/- 0.100 min (whichever is greater) retention time of calibrators?
4. Did QCs pass for each analyte? Y / N _____
5. Central File Packet to include: LIMS Worklist: Method Checklist
 Calibration and Control Reports

Comments:

ISP FORENSICS - Cd'A

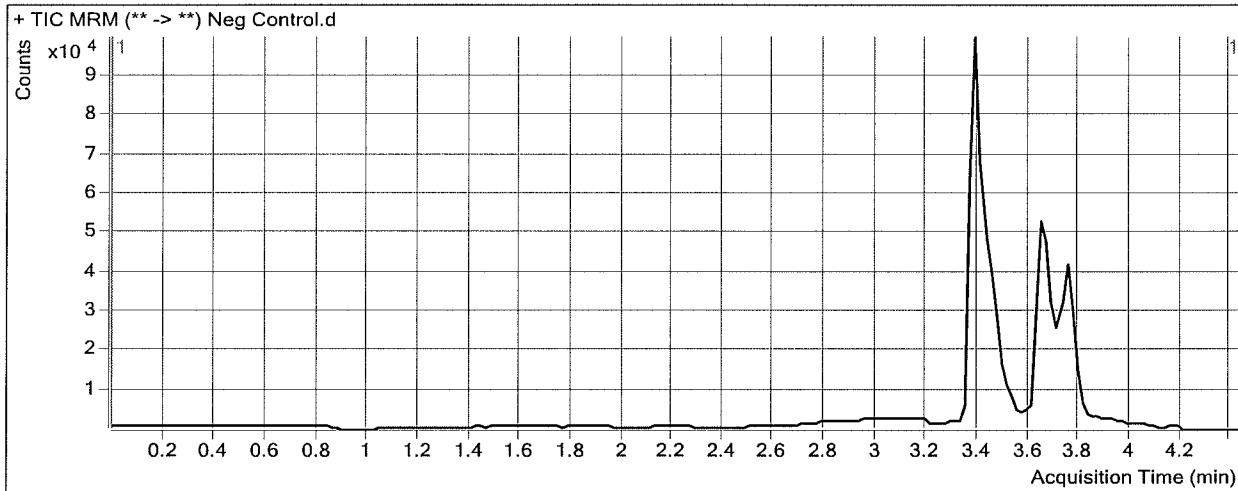
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 11:50 **Data File** Neg Control.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-a2 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen negative blood lot 17J20718

Sample Chromatogram



ISP FORENSICS - Cd'A

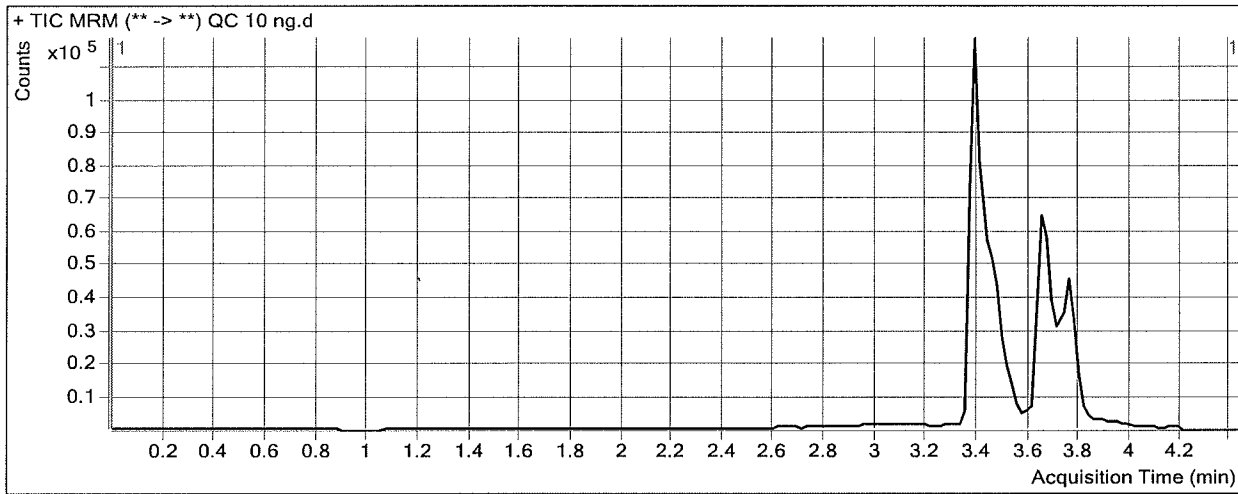
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 12:10 **Data File** QC 10 ng.d
Sample Type QC **Sample Name** QC 10 ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	48153	400711	0.1202	10.7735
THC-COOH	3.466	18961	87897	0.2157	10.3773
THC	3.740	3234	29358	0.1102	9.7498

ISP Forensics Calibration Curve Report

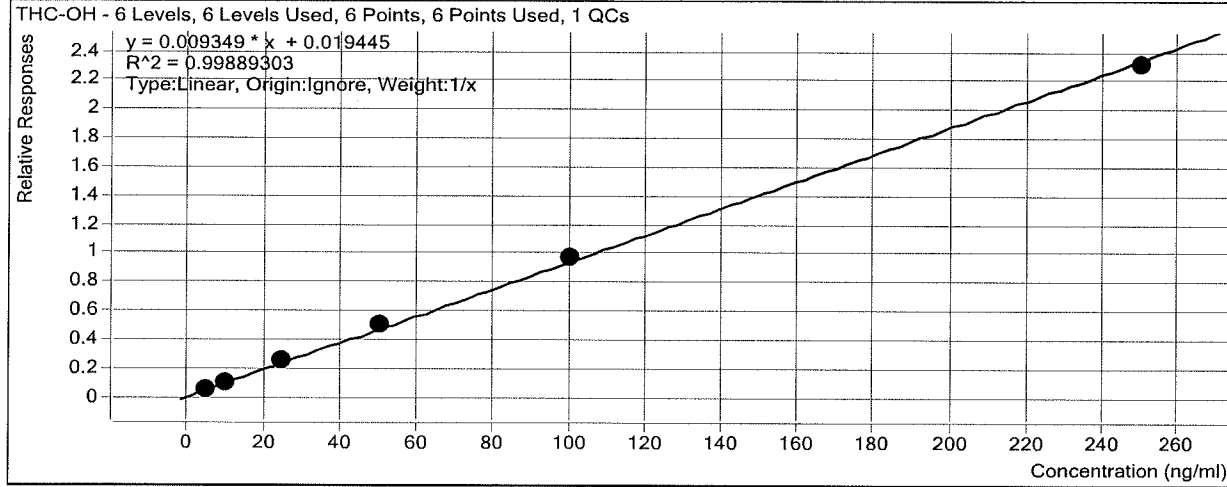
Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin

Last Calib Update 10/23/2017 2:54 PM

Analyst Name ISP TOX

Target Compound *THC-OH*

Internal Standard *THC-OH-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.9	97.2
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.3	93.0
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.8	107.7
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	26.3	105.1
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	52.0	104.0
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	102.7	102.7
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	244.8	97.9

ISP Forensics Calibration Curve Report

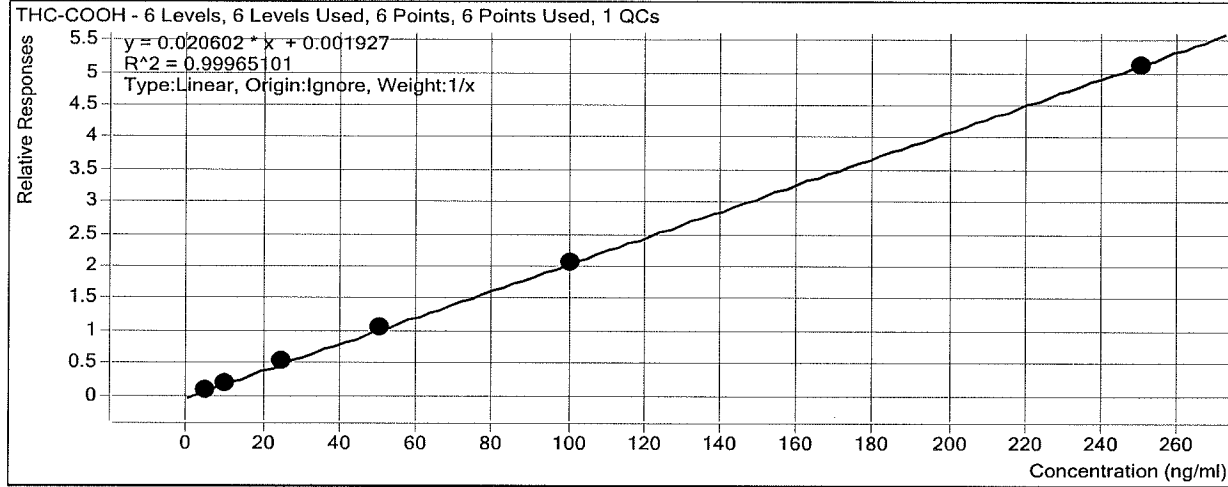
Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin

Last Calib Update 10/23/2017 2:54 PM

Analyst Name ISP TOX

Target Compound *THC-COOH*

Internal Standard *THC-COOH-d9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.1	102.4
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.3	92.7
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.4	103.8
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.7	102.9
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	50.9	101.8
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	101.0	101.0
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	248.0	99.2

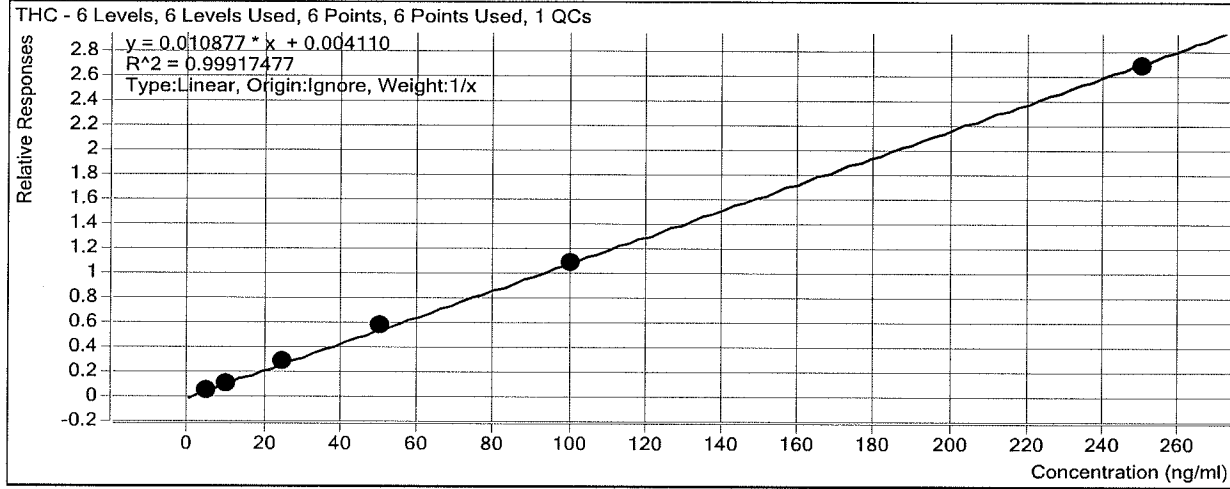
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin

Last Calib Update 10/23/2017 2:54 PM

Analyst Name ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	4.8	96.1
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.7	97.2
QC 10 ng	3	<input checked="" type="checkbox"/>	10	9.7	97.5
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.3	101.2
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	53.3	106.6
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	100.3	100.3
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	246.6	98.6

ISP FORENSICS - Cd'A

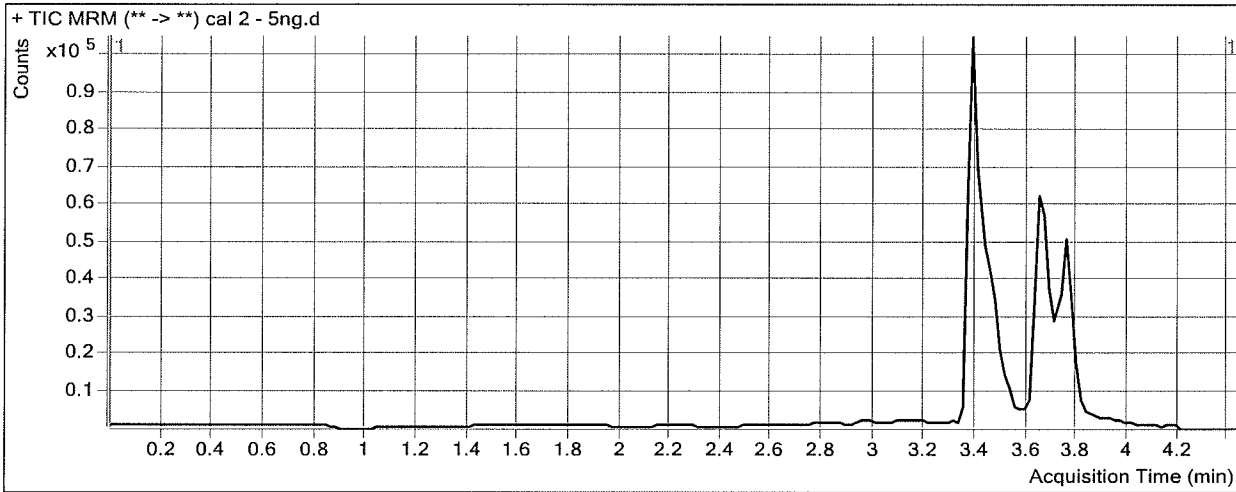
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 11:17 **Data File** cal 2 - 5ng.d
Sample Type Calibration **Sample Name** cal 2 - 5ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-B1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	23663	364761	0.0649	4.8591
THC-COOH	3.466	7963	74122	0.1074	5.1213
THC	3.740	1369	24278	0.0564	4.8051

ISP FORENSICS - Cd'A

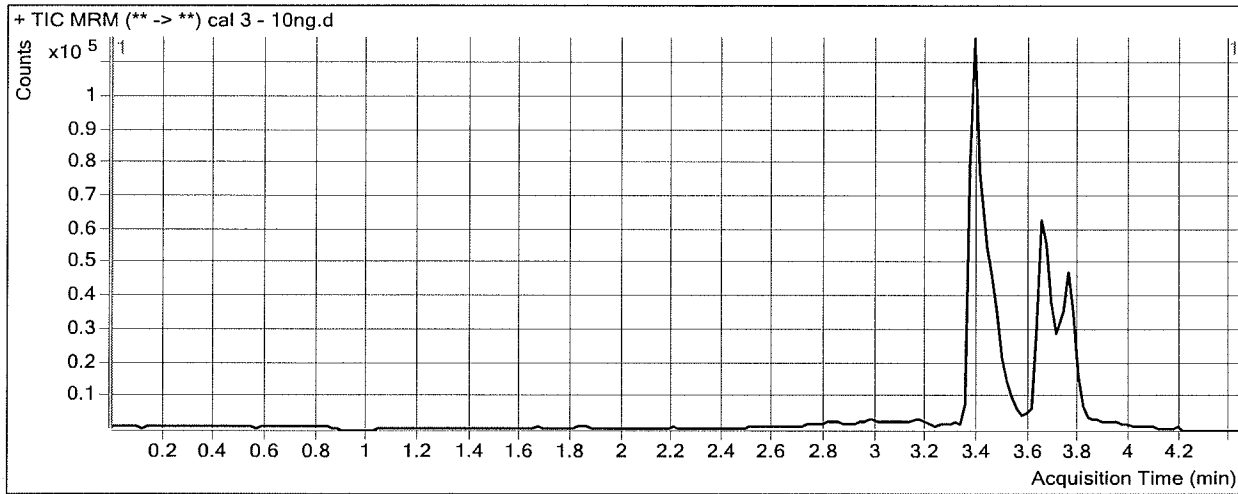
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 11:24 **Data File** cal 3 - 10ng.d
Sample Type Calibration **Sample Name** cal 3 - 10ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	42435	398809	0.1064	9.3014
THC-COOH	3.466	13051	67648	0.1929	9.2708
THC	3.740	2653	24158	0.1098	9.7197

ISP FORENSICS - Cd'A

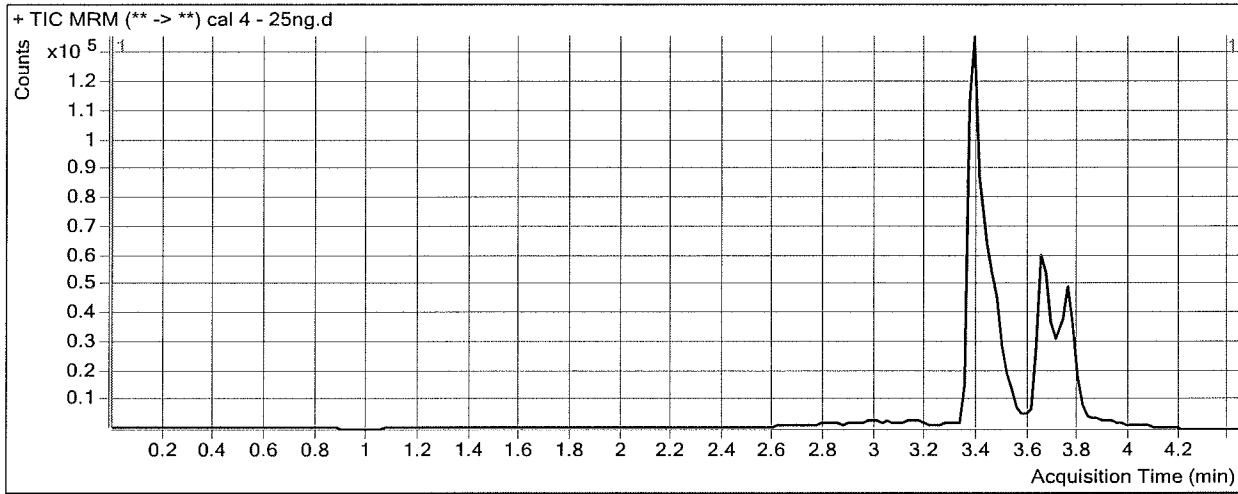
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 11:30 **Data File** cal 4 - 25ng.d
Sample Type Calibration **Sample Name** cal 4 - 25ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-D1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	110582	416990	0.2652	26.2853
THC-COOH	3.466	37766	71031	0.5317	25.7138
THC	3.740	7534	26980	0.2792	25.2937

ISP FORENSICS - Cd'A

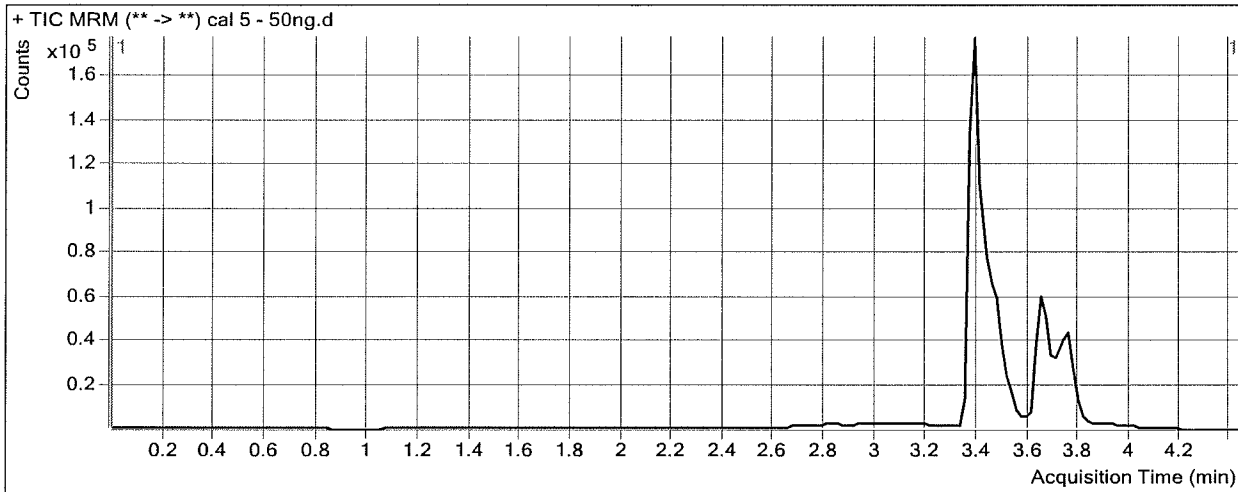
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 11:37 **Data File** cal 5 - 50ng.d
Sample Type Calibration **Sample Name** cal 5 - 50ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	219131	433404	0.5056	52.0002
THC-COOH	3.466	68639	65346	1.0504	50.8914
THC	3.720	13564	23232	0.5839	53.2996

ISP FORENSICS - Cd'A

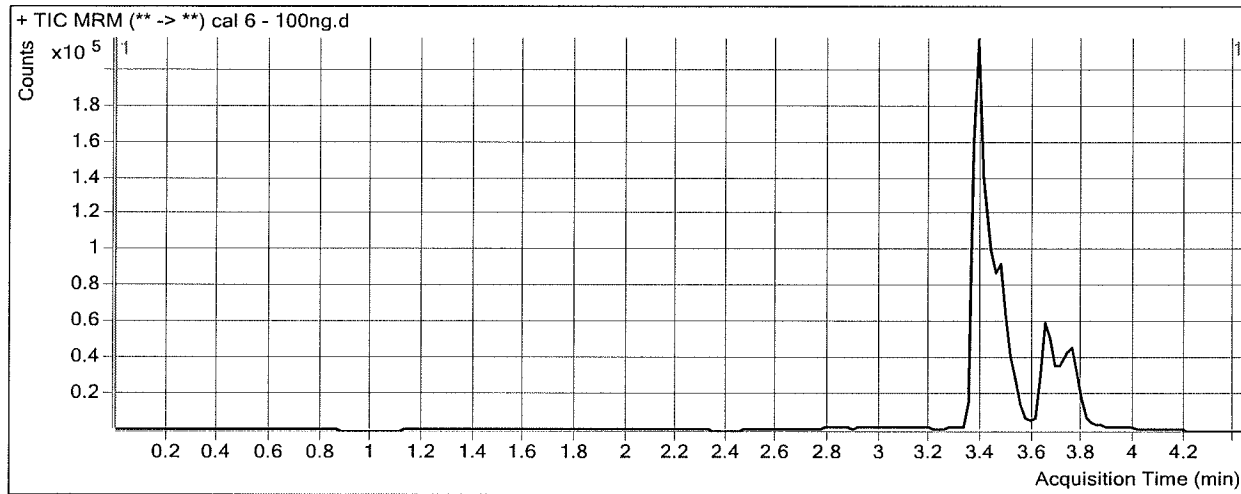
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 11:44 **Data File** cal 6 - 100ng.d
Sample Type Calibration **Sample Name** cal 6 - 100ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-F1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	393108	401163	0.9799	102.7337
THC-COOH	3.466	141620	67967	2.0837	101.0455
THC	3.740	27110	24758	1.0950	100.2885

ISP FORENSICS - Cd'A

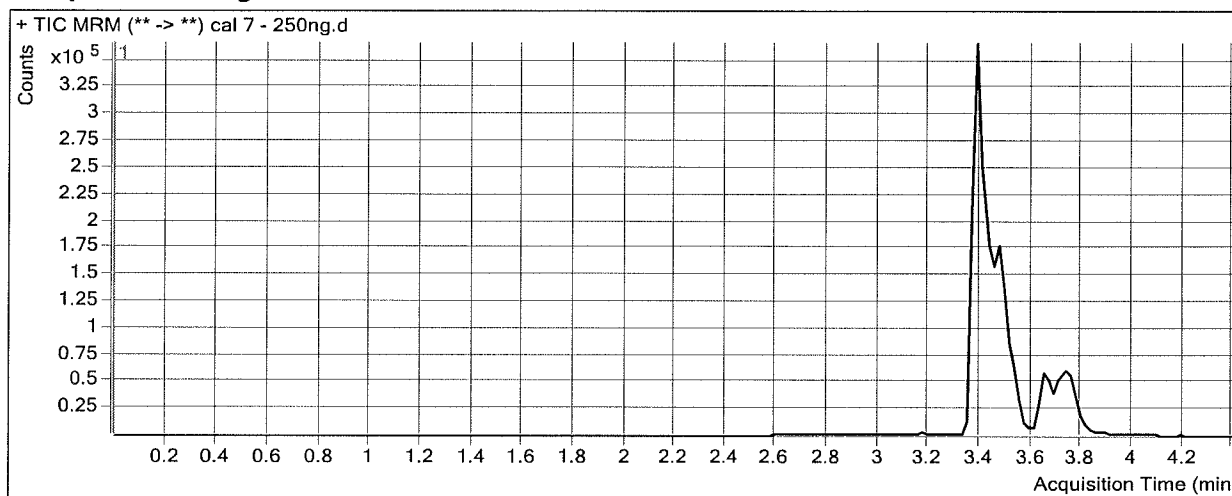
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\102317 blood screen AM 25-26\QuantResults\102317 cann screen.batch.bin
Analysis Time 10/23/2017 2:54 PM **Analyst Name** ISP Tox
Report Time 10/27/2017 10:39 AM **Reporter Name** ISP Tox
Last Calib Update 10/23/2017 2:54 PM **Batch State** Processed

Analysis Info

Acq Time 2017-10-23 11:57 **Data File** cal 7 - 250ng.d
Sample Type Calibration **Sample Name** cal 7 - 250ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	907694	393228	2.3083	244.8202
THC-COOH	3.466	338559	66250	5.1103	247.9572
THC	3.740	71295	26539	2.6864	246.5934