central data was reviewed by B. Wylie on 2/1/17

1/30/2017

Worklist: 1509

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2016-3887	1	75022	AM 25/AM 26 Blood MultiDrug/
M2016-4082	2	74979	AM 25/AM 26 Blood MultiDrug/
M2016-4611	1	74982	AM 25/AM 26 Blood MultiDrug/
M2016-4783	1	74986	AM 25/AM 26 Blood MultiDrug/
M2016-4858	4	74987	AM 25/AM 26 Blood MultiDrug/
M2016-4961	3	74988	AM 25/AM 26 Blood MultiDrug/
M2016-5311	1	74993	AM 25/AM 26 Blood MultiDrug/
M2016-5333	1	74994	AM 25/AM 26 Blood MultiDrug/
M2016-5341	1	74995	AM 25/AM 26 Blood MultiDrug/
M2016-5346	1	74996	AM 25/AM 26 Blood MultiDrug/
M2016-5369	1	74997	AM 25/AM 26 Blood MultiDrug/
M2017-0016	1	74998	AM 25/AM 26 Blood MultiDrug/
M2017-0066	1	74999	AM 25/AM 26 Blood MultiDrug/
P2016-2424	1	74980	AM 25/AM 26 Blood MultiDrug/
P2016-2487	1	74981	AM 25/AM 26 Blood MultiDrug/
P2016-2593	1	74983	AM 25/AM 26 Blood MultiDrug/
P2016-2597	1	74984	AM 25/AM 26 Blood MultiDrug/
P2016-2628	1	74985	AM 25/AM 26 Blood MultiDrug/
P2016-2790	1	74989	AM 25/AM 26 Blood MultiDrug/
P2016-2855	1	74990	AM 25/AM 26 Blood MultiDrug/
P2016-2866	1	74978	AM 25/AM 26 Blood MultiDrug/
P2016-2886	1	74991	AM 25/AM 26 Blood MultiDrug/
P2016-2934	1	75000	AM 25/AM 26 Blood MultiDrug/

Worklist: 1509

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
P2017-0025	1	75167	AM 25/AM 26 Blood MultiDrug/
P2017-0026	1	75168	AM 25/AM 26 Blood MultiDrug/
P2017-0033	1	75169	AM 25/AM 26 Blood MultiDrug/
P2017-0062	1	75170	AM 25/AM 26 Blood MultiDrug/
P2017-0073	1	75171	AM 25/AM 26 Blood MultiDrug/
P2017-0094	1	75172	AM 25/AM 26 Blood MultiDrug/
P2017-0097	1	75173	AM 25/AM 26 Blood MultiDrug/
P2017-0101	1	75174	AM 25/AM 26 Blood MultiDrug/

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

Extraction Date: 1-22-17 **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: 1-27-17 blood screen AM 25-26

ANALYTIC

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

✓ 2. Pipette **250µL blood** in wells of analytical (standards) plate. Mix via aspirate and dispense.
- Blank blood for locations containing standards/QCs and internal standards
- Sample blood for locations containing only internal standards

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

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

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

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

7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID 66729
✓ Wait 5 min.

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

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

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

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

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

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

POST-ANALYTIC

✓ 1. Open quantitation software and create a new quantitation batch. Batch name: 12717 multidrug screen a

✓ 2. Make any necessary integration changes.

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

✓ 4. Did all QCs pass for each analyte? (Y)/ N 12717 multidrug screen panel 2

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

✓

COMMENTS:

A

Compound Method		p1 cal 1a		p1 cal 1a Results			Qualifier 1 M...	Qualifier...	ISTD Method		ISTD Results		
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.	
6-MAM	328.2 -> 165...	1/27/2017 7:53 PM	P2-A1	4.892	1380	22.61	328.2 -> 211...	9.99	6-MAM-D6	334.2 -> 165...	4.871	56300	
7-aminoclonazepam	286.1 -> 121...	1/27/2017 7:53 PM	P2-A1	5.586	33704	236.44	286.1 -> 222...	262.62	7-Aminoclonazepam-D4	290.1 -> 121...	5.565	148588	
Acetyl Fentanyl	323.2 -> 105...	1/27/2017 7:53 PM	P2-A1	5.725	20423	90.78	323.2 -> 188...	105.33	Acetyl Fentanyl-D5	328.2 -> 105...	5.723	1319050	
Acetyl Norfentanyl	219.1 -> 84.2	1/27/2017 7:53 PM	P2-A1	4.886	12914	3606.58	219.1 -> 56.3	7.36	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.866	613474	
a-hydroxyalprazolam	325.1 -> 297...	1/27/2017 7:53 PM	P2-A1	6.436	11093	46.03	325.1 -> 215...	68.09	a-hydroxyalprazolam-D5	330.1 -> 302...	6.435	55728	
alpha-PVP	232.2 -> 91.0	1/27/2017 7:53 PM	P2-A1	5.513	163419	127.58	232.2 -> 77.1	95.69	alpha-PVP-d8	240.2 -> 91.1	5.512	673394	
Alprazolam	309.1 -> 281...	1/27/2017 7:53 PM	P2-A1	6.542	84923	339.01	309.1 -> 205...	289.84	Alprazolam-D5	314.1 -> 286...	6.520	342688	
Amphetamine	136.1 -> 91.1	1/27/2017 7:53 PM	P2-A1	4.788	169677	24.87	136.1 -> 119...	102.36	Amphetamine-D11	147.2 -> 130...	4.747	202606	
Bupropion	240.1 -> 184...	1/27/2017 7:53 PM	P2-A1	5.696	163904	29856.83	240.1 -> 131...	51.11	Ketamine-D4	242.1 -> 129...	5.328	396796	
Carisoprodol	261.2 -> 176...	1/27/2017 7:53 PM	P2-A1	6.184	86631	124.95	261.2 -> 55.3	47.72	Carisoprodol-D7	268.2 -> 183...	6.162	524937	
Citalopram	325.2 -> 109...	1/27/2017 7:53 PM	P2-A1	6.029	202361	181.35	325.2 -> 262...	475.79	Citalopram-D6	331.2 -> 109...	6.028	948297	
Clonazepam	316.1 -> 269...	1/27/2017 7:53 PM	P2-A1	6.398	24928	113.95	316.1 -> 213...	26.87	Clonazepam-D4	320.1 -> 217...	6.377	34673	
Codeine	300.2 -> 215...	1/27/2017 7:53 PM	P2-A1	4.756	10485	35.63	300.2 -> 165...	30.55	Codeine-D6	306.2 -> 218...	4.733	42886	
Cyclobenzaprine	276.2 -> 214...	1/27/2017 7:53 PM	P2-A1	6.262	134662	209.12	276.2 -> 231...	87.83	Cyclobenzaprine-D3	279.2 -> 215...	6.261	646172	
Dextromethorphan	272.2 -> 171...	1/27/2017 7:53 PM	P2-A1	6.039	66068	236.33	272.2 -> 147...	79.61	Dextromethorphan-D3	275.2 -> 171...	6.039	314304	
Dextrorphan	258.2 -> 157...	1/27/2017 7:53 PM	P2-A1	5.408	63548	121.72	258.2 -> 133...	157.74	Dextrorphan-D3	261.2 -> 157...	5.407	324874	
Diazepam	285.1 -> 193...	1/27/2017 7:53 PM	P2-A1	6.749	57598	86.12	285.1 -> 153...	84.75	Diazepam-D5	290.1 -> 198...	6.748	254420	
Dihydrocodeine	302.2 -> 198...	1/27/2017 7:53 PM	P2-A1	4.714	33977	43.79	302.2 -> 128...	39.97	Dihydrocodeine-D6	308.2 -> 202...	4.713	175355	
Diphenhydramine	256.2 -> 167...	1/27/2017 7:53 PM	P2-A1	5.981	373599	232.28	256.2 -> 152...	98.13	Diphenhydramine-D3	259.2 -> 167...	5.980	1883815	
Doxylamine	271.2 -> 182...	1/27/2017 7:53 PM	P2-A1	5.672	296603	51.09	271.2 -> 167...	25.25	Doxylamine-D5	276.2 -> 187...	5.650	1388156	
EDDP	279.2 -> 235...	1/27/2017 7:53 PM	P2-A1	6.038	228699	2511.67	279.2 -> 250...	59.51	EDDP-D3	282.2 -> 235...	6.037	100253	
Fentanyl	337.2 -> 105...	1/27/2017 7:53 PM	P2-A1	5.946	23110	53.83	337.2 -> 188...	126.70	Fentanyl-D5	342.3 -> 105...	5.925	1237469	
Fluoxetine	310.1 -> 44.3	1/27/2017 7:53 PM	P2-A1	6.256	296208	24832.84	310.1 -> 148...	1927.20	Fluoxetine-D6	316.2 -> 44.3	6.255	1438328	
Hydrocodone	300.2 -> 198...	1/27/2017 7:53 PM	P2-A1	4.978	46076	77.45	300.2 -> 128...	Infinity	Hydrocodone-D6	306.2 -> 202...	4.975	259948	
Hydromorphone	286.2 -> 184...	1/27/2017 7:53 PM	P2-A1	4.374	31285	27.26	286.2 -> 157...	Infinity	Hydromorphone-D6	292.2 -> 185...	4.372	105106	
Ketamine	238.1 -> 125...	1/27/2017 7:53 PM	P2-A1	5.350	100924	552.54	238.1 -> 220...	34.99	Ketamine-D4	242.1 -> 129...	5.328	396796	
Meprobamate	219.1 -> 158...	1/27/2017 7:53 PM	P2-A1	5.678	23600	32.74	219.1 -> 97.1	10.41	Meprobamate-D7	226.2 -> 165...	5.677	134637	
Methadone	310.2 -> 265...	1/27/2017 7:53 PM	P2-A1	6.297	252319	236.09	310.2 -> 105...	176.82	Methadone-D9	319.3 -> 268...	6.295	1395915	
Methamphetamine	150.1 -> 91.1	1/27/2017 7:53 PM	P2-A1	4.968	208562	42.01	150.1 -> 119...	13.75	Methamphetamine-D11	161.2 -> 97.1	4.927	639006	
Morphine	286.2 -> 201...	1/27/2017 7:53 PM	P2-A1	4.095	7465	42.25	286.2 -> 165...	507.78	Morphine-D6	292.2 -> 152...	4.073	10927	
Naloxone	328.2 -> 309...	1/27/2017 7:53 PM	P2-A1	5.155	693	2.41	328.2 -> 211...		Naloxone-D5	333.2 -> 315...	5.276	237	not evaluated
Naltrexol	344.2 -> 326...	1/27/2017 7:53 PM	P2-A1	4.911	97716	998.92	344.2 -> 308...	62.69	Naltrexol-D3	347.2 -> 329...	4.890	367883	
Naltrexone	342.2 -> 324...	1/27/2017 7:53 PM	P2-A1	4.831	44287	115.17	342.2 -> 55.3	65.11	Naltrexol-D3	347.2 -> 329...	4.890	367883	
Norbuprenorphine	414.3 -> 101...	1/27/2017 7:53 PM	P2-A1	5.801	8675	1803.87	414.3 -> 57.3	81.27	Norbuprenorphine-D3	417.3 -> 101...	5.801	37253	
Nordiazepam	271.1 -> 140...	1/27/2017 7:53 PM	P2-A1	6.610	24628	21748.79	271.1 -> 208...	35.55	Nordiazepam-D5	276.1 -> 140...	6.609	73298	
Norfentanyl	233.2 -> 84.2	1/27/2017 7:53 PM	P2-A1	5.330	206773	1039.16	233.2 -> 55.3	61.00	Norfentanyl-D5	238.2 -> 84.2	5.329	916091	
Norhydrocodone	286.2 -> 199...	1/27/2017 7:53 PM	P2-A1	4.940	4663	43.66	286.2 -> 171...	20.96	Norhydrocodone-D3	289.2 -> 202...	4.939	105496	
Noroxycodone	302.1 -> 284...	1/27/2017 7:53 PM	P2-A1	4.876	33323	40.10	302.1 -> 186...	39.36	Noroxycodone-D3	305.2 -> 287...	4.875	171796	
O-desmethyl-tramadol	250.2 -> 58.3	1/27/2017 7:53 PM	P2-A1	4.924	226214	121.79	250.2 -> 42.3	Infinity	O-desmethyl-tramadol-...	256.2 -> 64.3	4.904	965434	
Oxazepam	287.1 -> 240...	1/27/2017 7:53 PM	P2-A1	6.463	13332	30.40	287.1 -> 268...	5.34	Oxazepam-D5	292.1 -> 246...	6.443	68997	
Oxycodone	316.2 -> 298...	1/27/2017 7:53 PM	P2-A1	4.914	61279	54.81	316.2 -> 241...	62.81	Oxycodone-D6	322.2 -> 304...	4.893	311703	
Oxymorphone	302.1 -> 284...	1/27/2017 7:53 PM	P2-A1	4.206	51802	152.59	302.1 -> 227...	77.33	Oxymorphone-D3	305.2 -> 287...	4.204	255180	
Phentermine	150.1 -> 65.2	1/27/2017 7:53 PM	P2-A1	5.130	31237	11.00	150.1 -> 133...	3.63	Phentermine-D5	155.2 -> 96.2	5.109	505674	
Promethazine	285.1 -> 86.2	1/27/2017 7:53 PM	P2-A1	6.240	371250	56991.46	285.1 -> 71.3	324.72	Promethazine-D3	288.2 -> 89.2	6.239	2032210	
Quetiapine	384.2 -> 253...	1/27/2017 7:53 PM	P2-A1	6.169	290428	1096.69	384.2 -> 221...	28416....	Quetiapine-D8	392.2 -> 226...	6.168	416430	
Sertraline	306.1 -> 158...	1/27/2017 7:53 PM	P2-A1	6.462	110403	747.99	306.1 -> 275...	1486.93	Sertraline-D3	309.1 -> 275...	6.461	502722	
Sufentanil	387.2 -> 238...	1/27/2017 7:53 PM	P2-A1	6.168	19532	3840.31	387.2 -> 111...	69.11	Sufentanil-D5	392.2 -> 238...	6.147	791525	

Compound Method		p1 cal 1a		p1 cal 1a Results			Qualifier 1 M...	Qualifier...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
Temazepam	301.1 -> 255...	1/27/2017 7:53 PM	P2-A1	6.585	104302	116.75	301.1 -> 283...	12.66	Temazepam-D5	306.1 -> 260...	6.584	510456
Tramadol	264.2 -> 58.3	1/27/2017 7:53 PM	P2-A1	5.427	272764	87.19	264.2 -> 43.3	12.21	Tramadol-13C-D3	268.2 -> 58.3	5.427	1312976
Trazodone	372.2 -> 176...	1/27/2017 7:53 PM	P2-A1	6.027	199220	245.65	372.2 -> 148...	330.14	Sufentanil-D5	392.2 -> 238...	6.147	791525
Venlafaxine	278.2 -> 58.3	1/27/2017 7:53 PM	P2-A1	5.794	259678	105.32	278.2 -> 260...	68.95	Venlafaxine-D6	284.2 -> 64.3	5.772	1122579
Zolpidem	308.2 -> 235...	1/27/2017 7:53 PM	P2-A1	5.769	202311	Infinity	308.2 -> 263...	149.56	Zolpidem-D6	314.2 -> 235...	5.747	1004120

Compound Method		p1 external control a		p1 external control a Resu...			Qualifier 1 M...	Qualifier...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	1/27/2017 8:12 PM	P2-...	4.852	42	3.00	328.2 -> 211...	2.86	6-MAM-D6	334.2 -> 165...	4.871	41992
7-aminoclonazepam	286.1 -> 121...	1/27/2017 8:12 PM	P2-...	5.545	96	0.71	286.1 -> 222...		7-Aminoclonazepam-D4	290.1 -> 121...	5.565	106380
Acetyl Fentanyl	323.2 -> 105...	1/27/2017 8:12 PM	P2-...	5.725	94	0.51	323.2 -> 188...		Acetyl Fentanyl-D5	328.2 -> 105...	5.723	870657
Acetyl Norfentanyl	219.1 -> 84.2	1/27/2017 8:12 PM	P2-...	4.946	55	1.60	219.1 -> 56.3	0.86	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.866	408850
a-hydroxyalprazolam	325.1 -> 297...	1/27/2017 8:12 PM	P2-...	6.720	51	1.39	325.1 -> 215...		a-hydroxyalprazolam-D5	330.1 -> 302...	6.435	41069
alpha-PVP	232.2 -> 91.0	1/27/2017 8:12 PM	P2-...	5.697	149	1.80	232.2 -> 77.1	11.04	alpha-PVP-d8	240.2 -> 91.1	5.512	417918
Alprazolam	309.1 -> 281...	1/27/2017 8:12 PM	P2-...	6.359	1315	5.44	309.1 -> 205...	√ 0.67	Alprazolam-D5	314.1 -> 286...	6.520	251156
Amphetamine	136.1 -> 91.1	1/27/2017 8:12 PM	P2-...				136.1 -> 119...		Amphetamine-D11	147.2 -> 130...	4.747	110901
Bupropion	240.1 -> 184...	1/27/2017 8:12 PM	P2-...	5.716	373	0.82	240.1 -> 131...	3.54	Ketamine-D4	242.1 -> 129...	5.328	267622
Carisoprodol	261.2 -> 176...	1/27/2017 8:12 PM	P2-...	5.960	56	0.47	261.2 -> 55.3	0.97	Carisoprodol-D7	268.2 -> 183...	6.162	388731
Citalopram	325.2 -> 109...	1/27/2017 8:12 PM	P2-...	6.069	102	0.33	325.2 -> 262...	1.52	Citalopram-D6	331.2 -> 109...	6.028	573885
Clonazepam	316.1 -> 269...	1/27/2017 8:12 PM	P2-...	6.398	124	0.50	316.1 -> 213...		Clonazepam-D4	320.1 -> 217...	6.377	27178
Codeine	300.2 -> 215...	1/27/2017 8:12 PM	P2-... √	4.978	12363	100.23	300.2 -> 165...	5370.73	Codeine-D6	306.2 -> 218...	4.733	32898
Cyclobenzaprine	276.2 -> 214...	1/27/2017 8:12 PM	P2-...	6.323	76	0.93	276.2 -> 231...	0.34	Cyclobenzaprine-D3	279.2 -> 215...	6.261	404221
Dextromethorphan	272.2 -> 171...	1/27/2017 8:12 PM	P2-...	6.019	499067	1938.15	272.2 -> 147...	12685.41	Dextromethorphan-D3	275.2 -> 171...	6.039	185759
Dextrorphan	258.2 -> 157...	1/27/2017 8:12 PM	P2-...	5.632	22	0.12	258.2 -> 133...		Dextrorphan-D3	261.2 -> 157...	5.407	204493
Diazepam	285.1 -> 193...	1/27/2017 8:12 PM	P2-...	6.321	1087	0.44	285.1 -> 153...	√ 2.88	Diazepam-D5	290.1 -> 198...	6.748	182288
Dihydrocodeine	302.2 -> 198...	1/27/2017 8:12 PM	P2-...	4.734	661	14.20	302.2 -> 128...	√	Dihydrocodeine-D6	308.2 -> 202...	4.713	116625
Diphenhydramine	256.2 -> 167...	1/27/2017 8:12 PM	P2-...				256.2 -> 152...		Diphenhydramine-D3	259.2 -> 167...	5.980	11976...
Doxylamine	271.2 -> 182...	1/27/2017 8:12 PM	P2-...	5.672	25349...	Infinity	271.2 -> 167...	1699.07	Doxylamine-D5	276.2 -> 187...	5.650	956933
EDDP	279.2 -> 235...	1/27/2017 8:12 PM	P2-...	6.038	202	1.16	279.2 -> 250...	0.48	EDDP-D3	282.2 -> 235...	6.037	59271
Fentanyl	337.2 -> 105...	1/27/2017 8:12 PM	P2-...	6.210	131	0.99	337.2 -> 188...		Fentanyl-D5	342.3 -> 105...	5.925	757444
Fluoxetine	310.1 -> 44.3	1/27/2017 8:12 PM	P2-...	6.277	486	63.75	310.1 -> 148...	√	Fluoxetine-D6	316.2 -> 44.3	6.255	886754
Hydrocodone	300.2 -> 198...	1/27/2017 8:12 PM	P2-...	4.978	386251	Infinity	300.2 -> 128...	190.05	Hydrocodone-D6	306.2 -> 202...	4.975	176716
Hydromorphone	286.2 -> 184...	1/27/2017 8:12 PM	P2-...	4.374	107	0.62	286.2 -> 157...		Hydromorphone-D6	292.2 -> 185...	4.372	69289
Ketamine	238.1 -> 125...	1/27/2017 8:12 PM	P2-...	5.350	627	1.41	238.1 -> 220...		Ketamine-D4	242.1 -> 129...	5.328	267622
Meprobamate	219.1 -> 158...	1/27/2017 8:12 PM	P2-...	5.779	1697	1.03	219.1 -> 97.1	0.70	Meprobamate-D7	226.2 -> 165...	5.677	94763
Methadone	310.2 -> 265...	1/27/2017 8:12 PM	P2-...	6.297	805	0.77	310.2 -> 105...	0.43	Methadone-D9	319.3 -> 268...	6.295	876104
Methamphetamine	150.1 -> 91.1	1/27/2017 8:12 PM	P2-...	4.948	√ 17651	2.57	150.1 -> 119...	1.24	Methamphetamine-D11	161.2 -> 97.1	4.927	317927
Morphine	286.2 -> 201...	1/27/2017 8:12 PM	P2-...	4.095	57982	36.24	286.2 -> 165...	710.57	Morphine-D6	292.2 -> 152...	4.093	7507
Naloxone	328.2 -> 309...	1/27/2017 8:12 PM	P2-...	5.297	1264	8.37	328.2 -> 211...	2.28	Naloxone-D5	333.2 -> 315...	4.872	411
Naltrexol	344.2 -> 326...	1/27/2017 8:12 PM	P2-...	4.850	3758	13.27	344.2 -> 308...		Naltrexol-D3	347.2 -> 329...	4.910	277267
Naltrexone	342.2 -> 324...	1/27/2017 8:12 PM	P2-...	4.811	76	1.07	342.2 -> 55.3		Naltrexol-D3	347.2 -> 329...	4.910	277267
Norbuprenorphine	414.3 -> 101...	1/27/2017 8:12 PM	P2-...	6.005	119	2.90	414.3 -> 57.3	46.34	Norbuprenorphine-D3	417.3 -> 101...	5.801	22957
Nordiazepam	271.1 -> 140...	1/27/2017 8:12 PM	P2-...	6.793	27	1.20	271.1 -> 208...	1.84	Nordiazepam-D5	276.1 -> 140...	6.609	50219
Norfentanyl	233.2 -> 84.2	1/27/2017 8:12 PM	P2-...	5.127	52	0.37	233.2 -> 55.3		Norfentanyl-D5	238.2 -> 84.2	5.329	604838
Norhydrocodone	286.2 -> 199...	1/27/2017 8:12 PM	P2-...	4.960	426	2.12	286.2 -> 171...	2.05	Norhydrocodone-D3	289.2 -> 202...	4.939	72536
Noroxycodone	302.1 -> 284...	1/27/2017 8:12 PM	P2-...	4.876	882	3.02	302.1 -> 186...	3.99	Noroxycodone-D3	305.2 -> 287...	4.875	125844
O-desmethyl-tramadol	250.2 -> 58.3	1/27/2017 8:12 PM	P2-...	4.924	1556	2.65	250.2 -> 42.3	14.48	O-desmethyl-tramadol-...	256.2 -> 64.3	4.904	674668
Oxazepam	287.1 -> 240...	1/27/2017 8:12 PM	P2-...	6.403	349	1.02	287.1 -> 268...	Infinity	Oxazepam-D5	292.1 -> 246...	6.443	49825
Oxycodone	316.2 -> 298...	1/27/2017 8:12 PM	P2-...	4.974	25	0.25	316.2 -> 241...		Oxycodone-D6	322.2 -> 304...	4.893	219852
Oxymorphone	302.1 -> 284...	1/27/2017 8:12 PM	P2-...	4.347	211	0.33	302.1 -> 227...	2.16	Oxymorphone-D3	305.2 -> 287...	4.204	166487
Phentermine	150.1 -> 65.2	1/27/2017 8:12 PM	P2-...				150.1 -> 133...		Phentermine-D5	155.2 -> 96.2	5.109	305003
Promethazine	285.1 -> 86.2	1/27/2017 8:12 PM	P2-...	6.280	549	1.08	285.1 -> 71.3	0.28	Promethazine-D3	288.2 -> 89.2	6.239	12011...
Quetiapine	384.2 -> 253...	1/27/2017 8:12 PM	P2-...	6.169	328	2.66	384.2 -> 221...	0.68	Quetiapine-D8	392.2 -> 226...	6.168	278635
Sertraline	306.1 -> 158...	1/27/2017 8:12 PM	P2-...	6.421	94	1.43	306.1 -> 275...	0.81	Sertraline-D3	309.1 -> 275...	6.461	293267
Sufentanil	387.2 -> 238...	1/27/2017 8:12 PM	P2-...	6.148	947	121.99	387.2 -> 111...	√ 1.71	Sufentanil-D5	392.2 -> 238...	6.147	489512

Compound Method		p1 external control a		p1 external control a Resu...			Qualifier 1 M...	Qualifier...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
Temazepam	301.1 -> 255...	1/27/2017 8:12 PM	P2-...				301.1 -> 283...		Temazepam-D5	306.1 -> 260...	6.584	336714
Tramadol	264.2 -> 58.3	1/27/2017 8:12 PM	P2-...	5.427	5102	1.71	264.2 -> 43.3		Tramadol-13C-D3	268.2 -> 58.3	5.427	873896
Trazodone	372.2 -> 176...	1/27/2017 8:12 PM	P2-...	6.027	16841...	1875.74	372.2 -> 148...	439039....	Sufentanil-D5	392.2 -> 238...	6.147	489512
Venlafaxine	278.2 -> 58.3	1/27/2017 8:12 PM	P2-...	5.426	4260	3.00	278.2 -> 260...		Venlafaxine-D6	284.2 -> 64.3	5.772	752443
Zolpidem	308.2 -> 235...	1/27/2017 8:12 PM	P2-...	5.748	672	5.92	308.2 -> 263...	0.91	Zolpidem-D6	314.2 -> 235...	5.747	662543

Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...	Quali...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165...	1/27/2017 8:31 PM	P2-...	4.811	34	0.71	328.2 -> 211...	76.96	6-MAM-D6	334.2 -> 165...	4.892	53811
7-aminoclonazepam	286.1 -> 121...	1/27/2017 8:31 PM	P2-...	5.772	215	2.64	286.1 -> 222...		7-Aminoclonazepam-D4	290.1 -> 121...	5.565	145996
Acetyl Fentanyl	323.2 -> 105...	1/27/2017 8:31 PM	P2-...	5.745	278	1.80	323.2 -> 188...		Acetyl Fentanyl-D5	328.2 -> 105...	5.723	12652...
Acetyl Norfentanyl	219.1 -> 84.2	1/27/2017 8:31 PM	P2-...	4.866	144	6.33	219.1 -> 56.3	√ 0.39	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.866	516865
a-hydroxyalprazolam	325.1 -> 297...	1/27/2017 8:31 PM	P2-...	6.558	50	0.45	325.1 -> 215...		a-hydroxyalprazolam-D5	330.1 -> 302...	6.435	48126
alpha-PVP	232.2 -> 91.0	1/27/2017 8:31 PM	P2-...	5.554	31	0.40	232.2 -> 77.1	0.79	alpha-PVP-d8	240.2 -> 91.1	5.512	596734
Alprazolam	309.1 -> 281...	1/27/2017 8:31 PM	P2-...	6.380	2006	4.43	309.1 -> 205...	0.53	Alprazolam-D5	314.1 -> 286...	6.520	318750
Amphetamine	136.1 -> 91.1	1/27/2017 8:31 PM	P2-...	4.788	1175	0.34	136.1 -> 119...	0.93	Amphetamine-D11	147.2 -> 130...	4.747	163639
Bupropion	240.1 -> 184...	1/27/2017 8:31 PM	P2-...	5.308	124	0.58	240.1 -> 131...	10.42	Ketamine-D4	242.1 -> 129...	5.328	364026
Carisoprodol	261.2 -> 176...	1/27/2017 8:31 PM	P2-...	5.878	231	0.60	261.2 -> 55.3	0.95	Carisoprodol-D7	268.2 -> 183...	6.162	487151
Citalopram	325.2 -> 109...	1/27/2017 8:31 PM	P2-...	5.948	502	0.83	325.2 -> 262...	0.82	Citalopram-D6	331.2 -> 109...	6.028	915838
Clonazepam	316.1 -> 269...	1/27/2017 8:31 PM	P2-...	6.500	479	1.51	316.1 -> 213...	0.30	Clonazepam-D4	320.1 -> 217...	6.377	35674
Codeine	300.2 -> 215...	1/27/2017 8:31 PM	P2-...	5.402	35	2.87	300.2 -> 165...		Codeine-D6	306.2 -> 218...	4.733	35876
Cyclobenzaprine	276.2 -> 214...	1/27/2017 8:31 PM	P2-...	6.302	72	1.01	276.2 -> 231...	4.19	Cyclobenzaprine-D3	279.2 -> 215...	6.261	636334
Dextromethorphan	272.2 -> 171...	1/27/2017 8:31 PM	P2-...	6.019	636	1.56	272.2 -> 147...	0.71	Dextromethorphan-D3	275.2 -> 171...	6.039	296539
Dextrorphan	258.2 -> 157...	1/27/2017 8:31 PM	P2-...				258.2 -> 133...		Dextrorphan-D3	261.2 -> 157...	5.387	295627
Diazepam	285.1 -> 193...	1/27/2017 8:31 PM	P2-...	6.586	148	0.35	285.1 -> 153...	0.57	Diazepam-D5	290.1 -> 198...	6.748	261489
Dihydrocodeine	302.2 -> 198...	1/27/2017 8:31 PM	P2-...				302.2 -> 128...		Dihydrocodeine-D6	308.2 -> 202...	4.713	146959
Diphenhydramine	256.2 -> 167...	1/27/2017 8:31 PM	P2-...				256.2 -> 152...		Diphenhydramine-D3	259.2 -> 167...	5.980	17380...
Doxylamine	271.2 -> 182...	1/27/2017 8:31 PM	P2-...	5.672	24750	4.67	271.2 -> 167...	5.99	Doxylamine-D5	276.2 -> 187...	5.650	12640...
EDDP	279.2 -> 235...	1/27/2017 8:31 PM	P2-...	6.038	43	0.88	279.2 -> 250...	0.16	EDDP-D3	282.2 -> 235...	6.037	92264
Fentanyl	337.2 -> 105...	1/27/2017 8:31 PM	P2-...	5.946	55	0.72	337.2 -> 188...	1.27	Fentanyl-D5	342.3 -> 105...	5.925	11758...
Fluoxetine	310.1 -> 44.3	1/27/2017 8:31 PM	P2-...	6.297	550	7.26	310.1 -> 148...	3.86	Fluoxetine-D6	316.2 -> 44.3	6.255	13994...
Hydrocodone	300.2 -> 198...	1/27/2017 8:31 PM	P2-...	4.978	692	2.28	300.2 -> 128...		Hydrocodone-D6	306.2 -> 202...	4.955	232073
Hydromorphone	286.2 -> 184...	1/27/2017 8:31 PM	P2-...				286.2 -> 157...		Hydromorphone-D6	292.2 -> 185...	4.372	88164
Ketamine	238.1 -> 125...	1/27/2017 8:31 PM	P2-...	5.350	√ 1381	12.02	238.1 -> 220...	5.02	Ketamine-D4	242.1 -> 129...	5.328	364026
Meprobamate	219.1 -> 158...	1/27/2017 8:31 PM	P2-...				219.1 -> 97.1		Meprobamate-D7	226.2 -> 165...	5.677	125669
Methadone	310.2 -> 265...	1/27/2017 8:31 PM	P2-...	6.297	230	0.75	310.2 -> 105...	0.28	Methadone-D9	319.3 -> 268...	6.295	13204...
Methamphetamine	150.1 -> 91.1	1/27/2017 8:31 PM	P2-...	4.988	19436	1.85	150.1 -> 119...	1.46	Methamphetamine-D11	161.2 -> 97.1	4.927	501150
Morphine	286.2 -> 201...	1/27/2017 8:31 PM	P2-...	4.095	281	0.21	286.2 -> 165...	0.49	Morphine-D6	292.2 -> 152...	4.073	9694
Naloxone	328.2 -> 309...	1/27/2017 8:31 PM	P2-...				328.2 -> 211...		Naloxone-D5	333.2 -> 315...		
Naltrexol	344.2 -> 326...	1/27/2017 8:31 PM	P2-...	4.850	4398	21.47	344.2 -> 308...	√	Naltrexol-D3	347.2 -> 329...	4.890	346054
Naltrexone	342.2 -> 324...	1/27/2017 8:31 PM	P2-...				342.2 -> 55.3		Naltrexol-D3	347.2 -> 329...	4.890	346054
Norbuprenorphine	414.3 -> 101...	1/27/2017 8:31 PM	P2-...	5.822	72	0.69	414.3 -> 57.3	0.98	Norbuprenorphine-D3	417.3 -> 101...	5.801	34521
Nordiazepam	271.1 -> 140...	1/27/2017 8:31 PM	P2-...	6.692	23	0.33	271.1 -> 208...		Nordiazepam-D5	276.1 -> 140...	6.609	68742
Norfentanyl	233.2 -> 84.2	1/27/2017 8:31 PM	P2-...				233.2 -> 55.3		Norfentanyl-D5	238.2 -> 84.2	5.329	767148
Norhydrocodone	286.2 -> 199...	1/27/2017 8:31 PM	P2-...	4.899	156	1.43	286.2 -> 171...	38.46	Norhydrocodone-D3	289.2 -> 202...	4.939	94321
Noroxycodone	302.1 -> 284...	1/27/2017 8:31 PM	P2-...	4.936	925	1.55	302.1 -> 186...	1.65	Noroxycodone-D3	305.2 -> 287...	4.875	148455
O-desmethyl-tramadol	250.2 -> 58.3	1/27/2017 8:31 PM	P2-...	4.904	1380	2.21	250.2 -> 42.3	7.17	O-desmethyl-tramadol-...	256.2 -> 64.3	4.904	879352
Oxazepam	287.1 -> 240...	1/27/2017 8:31 PM	P2-...	6.544	171	4.87	287.1 -> 268...	1.01	Oxazepam-D5	292.1 -> 246...	6.443	64343
Oxycodone	316.2 -> 298...	1/27/2017 8:31 PM	P2-...	4.772	824	2.12	316.2 -> 241...		Oxycodone-D6	322.2 -> 304...	4.893	272810
Oxymorphone	302.1 -> 284...	1/27/2017 8:31 PM	P2-...	4.226	779	1.74	302.1 -> 227...	0.56	Oxymorphone-D3	305.2 -> 287...	4.204	207279
Phentermine	150.1 -> 65.2	1/27/2017 8:31 PM	P2-...	5.008	2513	1.68	150.1 -> 133...	0.61	Phentermine-D5	155.2 -> 96.2	5.109	424263
Promethazine	285.1 -> 86.2	1/27/2017 8:31 PM	P2-...	6.117	16	0.65	285.1 -> 71.3	0.87	Promethazine-D3	288.2 -> 89.2	6.239	19492...
Quetiapine	384.2 -> 253...	1/27/2017 8:31 PM	P2-...	6.189	333	1.41	384.2 -> 221...		Quetiapine-D8	392.2 -> 226...	6.147	386364
Sertraline	306.1 -> 158...	1/27/2017 8:31 PM	P2-...	6.401	66	0.52	306.1 -> 275...	4.90	Sertraline-D3	309.1 -> 275...	6.461	506201
Sufentanil	387.2 -> 238...	1/27/2017 8:31 PM	P2-...	6.148	√ 1169	15.65	387.2 -> 111...	4.62	Sufentanil-D5	392.2 -> 238...	6.147	731641

Compound Method		p1 negative		p1 negative Results			Qualifier 1 M...	Quali...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
Temazepam	301.1 -> 255...	1/27/2017 8:31 PM	P2-...	6.422	315	0.90	301.1 -> 283...	1.42	Temazepam-D5	306.1 -> 260...	6.584	487695
Tramadol	264.2 -> 58.3	1/27/2017 8:31 PM	P2-...	5.427	6857	1.82	264.2 -> 43.3		Tramadol-13C-D3	268.2 -> 58.3	5.427	11674...
Trazodone	372.2 -> 176...	1/27/2017 8:31 PM	P2-...	6.027	3527	4.84	372.2 -> 148...	2.77	Sufentanil-D5	392.2 -> 238...	6.147	731641
Venlafaxine	278.2 -> 58.3	1/27/2017 8:31 PM	P2-...	5.426	4018	2.14	278.2 -> 260...	0.40	Venlafaxine-D6	284.2 -> 64.3	5.772	10293...
Zolpidem	308.2 -> 235...	1/27/2017 8:31 PM	P2-...				308.2 -> 263...		Zolpidem-D6	314.2 -> 235...	5.747	912993

Compound Method		p2 cal 1b		p2 cal 1b Results			Qualifier 1 M...	Qualifi...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	1/27/2017 8:02 PM	P2-A1	5.782	69209	Infinity	284.1 -> 93.2	622.35	7-aminoflunitrazepam-D7	291.2 -> 138...	5.760	316646
alpha-hydroxymidazolam	342.1 -> 324...	1/27/2017 8:02 PM	P2-A1	6.446	98912	146.28	342.1 -> 203...	152.90	alpha-hydroxymidazolam-...	346.1 -> 328...	6.445	469819
Amitriptyline	278.2 -> 91.2	1/27/2017 8:02 PM	P2-A1	6.334	258751	47.95	278.2 -> 105...	55.10	Amitriptyline-D3	281.2 -> 91.2	6.333	495885
Amoxapine	314.1 -> 271...	1/27/2017 8:02 PM	P2-A1	6.287	95304	180.00	314.1 -> 193...	146.20	Amitriptyline-D3	281.2 -> 91.2	6.333	495885
Benzoylecgonine	290.1 -> 168...	1/27/2017 8:02 PM	P2-A1	5.411	23903	850.88	290.1 -> 105...	Infinity	Benzoylecgonine-D8	298.2 -> 171...	5.390	7477
Carbamazepine	237.1 -> 193...	1/27/2017 8:02 PM	P2-A1	6.197	35641	64.34	237.1 -> 194...	Infinity	Carbamazepine-13C6	243.1 -> 200...	6.196	1467869
Chlordiazepoxide	300.1 -> 227...	1/27/2017 8:02 PM	P2-A1	6.553	38313	109.33	300.1 -> 282...	67.42	Chlordiazepoxide-D5	305.1 -> 286...	6.533	378905
Clomipramine	315.2 -> 86.2	1/27/2017 8:02 PM	P2-A1	6.511	376652	1177.29	315.2 -> 58.3	Infinity	Clomipramine-D3	318.2 -> 89.2	6.510	1837876
Cocaine	304.2 -> 182...	1/27/2017 8:02 PM	P2-A1	5.573	206825	107838....	304.2 -> 105...	Infinity	Cocaine-D3	307.2 -> 185...	5.572	837666
Desipramine	267.2 -> 72.3	1/27/2017 8:02 PM	P2-A1	6.294	303761	754.66	267.2 -> 44.3	Infinity	Desipramine-D3	270.2 -> 75.3	6.294	1451698
Doxepin	280.2 -> 107...	1/27/2017 8:02 PM	P2-A1	6.089	133119	365.88	280.2 -> 77.2	Infinity	Doxepin-D3	283.2 -> 107...	6.088	642041
Estazolam	295.1 -> 267...	1/27/2017 8:02 PM	P2-A1	6.453	88093	197.75	295.1 -> 205...	Infinity	Estazolam-D5	300.1 -> 272...	6.451	403394
Flunitrazepam	314.1 -> 268...	1/27/2017 8:02 PM	P2-A1	6.491	85243	95.64	314.1 -> 239...	196.02	Flunitrazepam-D7	321.1 -> 245...	6.490	22800
Flurazepam	388.2 -> 315...	1/27/2017 8:02 PM	P2-A1	6.058	179251	19720.43	388.2 -> 317...	5239....	Zopiclone-D4	393.1 -> 244...	5.733	170253
Imipramine	281.2 -> 86.2	1/27/2017 8:02 PM	P2-A1	6.313	408297	565.68	281.2 -> 58.3	Infinity	Imipramine-D3	284.2 -> 61.3	6.312	1063241
Levamisole	205.1 -> 91.2	1/27/2017 8:02 PM	P2-A1	4.937	61686	160.60	205.1 -> 178...	499.43	Cocaine-D3	307.2 -> 185...	5.572	837666
Maprotiline	278.2 -> 91.2	1/27/2017 8:02 PM	P2-A1	6.028	162588	34.99	278.2 -> 117...	4.54	Meperidine-D4	252.2 -> 224...	5.581	365117
MDA	180.1 -> 163...	1/27/2017 8:02 PM	P2-A1	4.983	58200	Infinity	180.1 -> 105...	288.68	MDA-D5	185.1 -> 168...	4.961	302780
MDEA	208.1 -> 163...	1/27/2017 8:02 PM	P2-A1	5.241	150680	Infinity	208.1 -> 105...	Infinity	MDEA-D6	214.2 -> 166...	5.241	765901
MDMA	194.1 -> 163...	1/27/2017 8:02 PM	P2-A1	5.083	122630	546.02	194.1 -> 105...	Infinity	MDMA-D6	200.2 -> 166...	5.062	65570
Meperidine	248.2 -> 220...	1/27/2017 8:02 PM	P2-A1	5.602	70637	Infinity	248.2 -> 174...	57.60	Meperidine-D4	252.2 -> 224...	5.581	365117
Methylphenidate	234.2 -> 84.2	1/27/2017 8:02 PM	P2-A1	5.502	328637	Infinity	234.2 -> 56.3	Infinity	Meperidine-D4	252.2 -> 224...	5.581	365117
Metoprolol	268.2 -> 116...	1/27/2017 8:02 PM	P2-A1	5.435	40231	390.11	268.2 -> 56.3	369.54	Meperidine-D4	252.2 -> 224...	5.581	365117
Midazolam	326.1 -> 223...	1/27/2017 8:02 PM	P2-A1	6.366	31278	218.78	326.1 -> 249...	117.29	Midazolam-D4	330.1 -> 295...	6.366	469066
Mirtazapine	266.2 -> 195...	1/27/2017 8:02 PM	P2-A1	5.682	186449	618.98	266.2 -> 72.3	146.03	Midazolam-D4	330.1 -> 295...	6.366	469066
Mitragynine	399.2 -> 174...	1/27/2017 8:02 PM	P2-A1	6.058	84266	18561.46	399.2 -> 238...	7887....	Carbamazepine-13C6	243.1 -> 200...	6.196	1467869
Normeperidine	234.1 -> 42.3	1/27/2017 8:02 PM	P2-A1	5.605	77551	78.15	234.1 -> 160...	524.89	Normeperidine-D4	238.2 -> 164...	5.603	354160
Norpropoxyphene	326.2 -> 44.3	1/27/2017 8:02 PM	P2-A1	6.203	40791	1072.41	326.2 -> 252...	70.73	Norpropoxyphene-D5	331.2 -> 44.3	6.182	180498
Nortriptyline	264.2 -> 91.2	1/27/2017 8:02 PM	P2-A1	6.254	427335	48639.56	264.2 -> 233...	Infinity	Nortriptyline-D3	267.2 -> 233...	6.335	606025
Ondansetron	294.2 -> 184...	1/27/2017 8:02 PM	P2-A1	5.739	103339	200.29	294.2 -> 212...	153.23	Pentazocine-13C3	289.2 -> 72.3	5.658	515629
Pentazocine	286.2 -> 218...	1/27/2017 8:02 PM	P2-A1	5.658	145912	512.76	286.2 -> 41.3	Infinity	Pentazocine-13C3	289.2 -> 72.3	5.658	515629
Phenazepam	349.0 -> 206...	1/27/2017 8:02 PM	P2-A1	6.567	56057	214.08	349.0 -> 183...	504.83	Phenazepam-D4	353.0 -> 183...	6.567	18136
Phencyclidine	244.2 -> 86.2	1/27/2017 8:02 PM	P2-A1	5.890	232800	392.15	244.2 -> 91.1	72.37	Phencydlidine-D5	249.2 -> 86.2	5.869	1130101
Phenytoin	253.1 -> 104...	1/27/2017 8:02 PM	P2-A1	6.113	5107	5.35	253.1 -> 182...	18.51	Phenytoin-D10	263.2 -> 192...	6.093	23544
Prazepam	325.1 -> 271...	1/27/2017 8:02 PM	P2-A1	6.996	321312	2202.68	325.1 -> 140...	877.12	Prazepam-D5	330.1 -> 276...	6.974	1416508
Primidone	219.1 -> 91.2	1/27/2017 8:02 PM	P2-A1	5.485	10835	11.50	219.1 -> 162...	43.76	Prazepam-D5	330.1 -> 276...	6.974	1416508
Propoxyphene	340.2 -> 58.3	1/27/2017 8:02 PM	P2-A1	6.202	247460	29365.25	340.2 -> 266...	269.61	Propoxyphene-D11	351.3 -> 277...	6.181	320183
Protriptyline	264.2 -> 155...	1/27/2017 8:02 PM	P2-A1	6.254	760425	3339.74	264.2 -> 161...	3.23	Nortriptyline-D3	267.2 -> 233...	6.335	606025
Pseudoephedrine	166.1 -> 148...	1/27/2017 8:02 PM	P2-A1	4.601	13786...	5062.72	166.1 -> 133...	424.62	Pseudoephedrine-D3	169.1 -> 151...	4.600	644009
Tapentadol	222.2 -> 107...	1/27/2017 8:02 PM	P2-A1	5.463	214569	779.39	222.2 -> 121...	390.86	Tapentadol-D3	225.2 -> 107...	5.463	1042500
Trimipramine	295.2 -> 100...	1/27/2017 8:02 PM	P2-A1	6.371	435115	260114....	295.2 -> 58.3	123.38	Trimipramine-D3	298.2 -> 103...	6.371	2074053
Verapamil	455.3 -> 165...	1/27/2017 8:02 PM	P2-A1	6.138	253266	1016.52	455.3 -> 150...	696.78	Trimipramine-D3	298.2 -> 103...	6.371	2074053
Zaleplon	306.1 -> 236...	1/27/2017 8:02 PM	P2-A1	6.288	75143	11117.83	306.1 -> 264...	121.25	Zaleplon-D4	310.2 -> 240...	6.287	295976
Zopiclone	389.1 -> 244...	1/27/2017 8:02 PM	P2-A1	5.733	39525	165.89	389.1 -> 216...	157.85	Zopiclone-D4	393.1 -> 244...	5.733	170253

Compound Method		p2 external control		p2 external control Results			Qualifier 1 M...	Qualifi...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	1/27/2017 8:22 PM	P2-...	5.761	1424	6.41	284.1 -> 93.2	2.50	7-aminoflunitrazepam-D7	291.2 -> 138...	5.760	219406
alpha-hydroxymidazolam	342.1 -> 324...	1/27/2017 8:22 PM	P2-...	6.467	28	0.31	342.1 -> 203...	2.18	alpha-hydroxymidazolam-...	346.1 -> 328...	6.445	347776
Amitriptyline	278.2 -> 91.2	1/27/2017 8:22 PM	P2-...	6.578	533	0.66	278.2 -> 105...		Amitriptyline-D3	281.2 -> 91.2	6.333	301800
Amoxapine	314.1 -> 271...	1/27/2017 8:22 PM	P2-...	6.511	797	7.93	314.1 -> 193...	Infinity	Amitriptyline-D3	281.2 -> 91.2	6.333	301800
Benzoylecgonine	290.1 -> 168...	1/27/2017 8:22 PM	P2-...	5.411	90	4.16	290.1 -> 105...	4.39	Benzoylecgonine-D8	298.2 -> 171...	5.390	6039
Carbamazepine	237.1 -> 193...	1/27/2017 8:22 PM	P2-...	6.299	154	1.50	237.1 -> 194...	0.53	Carbamazepine-13C6	243.1 -> 200...	6.196	11188...
Chlordiazepoxide	300.1 -> 227...	1/27/2017 8:22 PM	P2-...	6.451	302	1.72	300.1 -> 282...	2.81	Chlordiazepoxide-D5	305.1 -> 286...	6.533	279334
Clomipramine	315.2 -> 86.2	1/27/2017 8:22 PM	P2-...	6.551	153	1.31	315.2 -> 58.3	4.82	Clomipramine-D3	318.2 -> 89.2	6.510	11197...
Cocaine	304.2 -> 182...	1/27/2017 8:22 PM	P2-...	5.573	361	1.01	304.2 -> 105...		Cocaine-D3	307.2 -> 185...	5.572	583959
Desipramine	267.2 -> 72.3	1/27/2017 8:22 PM	P2-...	6.335	2337	7.45	267.2 -> 44.3	357.66	Desipramine-D3	270.2 -> 75.3	6.294	890327
Doxepin	280.2 -> 107...	1/27/2017 8:22 PM	P2-...	6.231	71	0.61	280.2 -> 77.2	0.89	Doxepin-D3	283.2 -> 107...	6.088	392611
Estazolam	295.1 -> 267...	1/27/2017 8:22 PM	P2-...				295.1 -> 205...		Estazolam-D5	300.1 -> 272...	6.451	288177
Flunitrazepam	314.1 -> 268...	1/27/2017 8:22 PM	P2-...	6.511	1309	1.57	314.1 -> 239...	0.77	Flunitrazepam-D7	321.1 -> 245...	6.470	16896
Flurazepam	388.2 -> 315...	1/27/2017 8:22 PM	P2-...	6.262	19	0.59	388.2 -> 317...		Zopiclone-D4	393.1 -> 244...	5.733	164039
Imipramine	281.2 -> 86.2	1/27/2017 8:22 PM	P2-...	6.354	3005	35.30	281.2 -> 58.3	0.44	Imipramine-D3	284.2 -> 61.3	6.312	683435
Levamisole	205.1 -> 91.2	1/27/2017 8:22 PM	P2-...	4.957	79	0.23	205.1 -> 178...	0.17	Cocaine-D3	307.2 -> 185...	5.572	583959
Maprotiline	278.2 -> 91.2	1/27/2017 8:22 PM	P2-...	5.987	450	1.36	278.2 -> 117...	0.54	Meperidine-D4	252.2 -> 224...	5.581	248487
MDA	180.1 -> 163...	1/27/2017 8:22 PM	P2-...	4.861	111	0.52	180.1 -> 105...		MDA-D5	185.1 -> 168...	4.961	208532
MDEA	208.1 -> 163...	1/27/2017 8:22 PM	P2-...				208.1 -> 105...		MDEA-D6	214.2 -> 166...	5.241	528700
MDMA	194.1 -> 163...	1/27/2017 8:22 PM	P2-...	5.083	26	0.40	194.1 -> 105...		MDMA-D6	200.2 -> 166...	5.082	45334
Meperidine	248.2 -> 220...	1/27/2017 8:22 PM	P2-...	5.581	528628	Infinity	248.2 -> 174...	4255....	Meperidine-D4	252.2 -> 224...	5.581	248487
Methylphenidate	234.2 -> 84.2	1/27/2017 8:22 PM	P2-...	5.339	449	0.30	234.2 -> 56.3	2.71	Meperidine-D4	252.2 -> 224...	5.581	248487
Metoprolol	268.2 -> 116...	1/27/2017 8:22 PM	P2-...	5.394	53	1.39	268.2 -> 56.3	2.36	Meperidine-D4	252.2 -> 224...	5.581	248487
Midazolam	326.1 -> 223...	1/27/2017 8:22 PM	P2-...				326.1 -> 249...		Midazolam-D4	330.1 -> 295...	6.366	343068
Mirtazapine	266.2 -> 195...	1/27/2017 8:22 PM	P2-...	5.682	47	0.86	266.2 -> 72.3	2.55	Midazolam-D4	330.1 -> 295...	6.366	343068
Mitragynine	399.2 -> 174...	1/27/2017 8:22 PM	P2-...				399.2 -> 238...		Carbamazepine-13C6	243.1 -> 200...	6.196	11188...
Normeperidine	234.1 -> 42.3	1/27/2017 8:22 PM	P2-...				234.1 -> 160...		Normeperidine-D4	238.2 -> 164...	5.603	228452
Norpropoxyphene	326.2 -> 44.3	1/27/2017 8:22 PM	P2-...	6.224	31	0.84	326.2 -> 252...		Norpropoxyphene-D5	331.2 -> 44.3	6.182	97837
Nortriptyline	264.2 -> 91.2	1/27/2017 8:22 PM	P2-...	6.316	277	0.56	264.2 -> 233...	0.97	Nortriptyline-D3	267.2 -> 233...	6.335	368230
Ondansetron	294.2 -> 184...	1/27/2017 8:22 PM	P2-...	5.677	54	0.54	294.2 -> 212...		Pentazocine-13C3	289.2 -> 72.3	5.658	314515
Pentazocine	286.2 -> 218...	1/27/2017 8:22 PM	P2-...	5.679	114	3.64	286.2 -> 41.3		Pentazocine-13C3	289.2 -> 72.3	5.658	314515
Phenazepam	349.0 -> 206...	1/27/2017 8:22 PM	P2-...	6.445	1693	6.76	349.0 -> 183...		Phenazepam-D4	353.0 -> 183...	6.546	11730
Phencyclidine	244.2 -> 86.2	1/27/2017 8:22 PM	P2-...	5.930	1005	2.70	244.2 -> 91.1		Phencydlidine-D5	249.2 -> 86.2	5.869	699796
Phenytoin	253.1 -> 104...	1/27/2017 8:22 PM	P2-...	6.113	104	0.54	253.1 -> 182...		Phenytoin-D10	263.2 -> 192...	6.093	14675
Prazepam	325.1 -> 271...	1/27/2017 8:22 PM	P2-...	7.016	27	0.80	325.1 -> 140...		Prazepam-D5	330.1 -> 276...	6.974	909816
Primidone	219.1 -> 91.2	1/27/2017 8:22 PM	P2-...	5.627	894	3.06	219.1 -> 162...		Prazepam-D5	330.1 -> 276...	6.974	909816
Propoxyphene	340.2 -> 58.3	1/27/2017 8:22 PM	P2-...	6.202	273	0.87	340.2 -> 266...	0.52	Propoxyphene-D11	351.3 -> 277...	6.181	197595
Protriptyline	264.2 -> 155...	1/27/2017 8:22 PM	P2-...	6.336	208	1.36	264.2 -> 161...		Nortriptyline-D3	267.2 -> 233...	6.335	368230
Pseudoephedrine	166.1 -> 148...	1/27/2017 8:22 PM	P2-...	5.005	282	0.43	166.1 -> 133...	1.05	Pseudoephedrine-D3	169.1 -> 151...	4.600	400165
Tapentadol	222.2 -> 107...	1/27/2017 8:22 PM	P2-...	5.463	475	1.25	222.2 -> 121...	0.80	Tapentadol-D3	225.2 -> 107...	5.463	709546
Trimipramine	295.2 -> 100...	1/27/2017 8:22 PM	P2-...	6.412	331	3.51	295.2 -> 58.3		Trimipramine-D3	298.2 -> 103...	6.371	12618...
Verapamil	455.3 -> 165...	1/27/2017 8:22 PM	P2-...				455.3 -> 150...		Trimipramine-D3	298.2 -> 103...	6.371	12618...
Zaleplon	306.1 -> 236...	1/27/2017 8:22 PM	P2-...	6.533	132	0.84	306.1 -> 264...		Zaleplon-D4	310.2 -> 240...	6.287	228494
Zopiclone	389.1 -> 244...	1/27/2017 8:22 PM	P2-...	5.673	24	0.24	389.1 -> 216...		Zopiclone-D4	393.1 -> 244...	5.733	164039

Compound Method		p2 negative		p2 negative Results			Qualifier 1 M...	Qualif...	ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Name	Transition	RT	Resp.
7-aminoflunitrazepam	284.1 -> 135...	1/27/2017 8:41 PM	P2-...	5.782	✓ 2105	50.76	284.1 -> 93.2	12.65	7-aminoflunitrazepam-D7	291.2 -> 138...	5.760	291252
alpha-hydroxymidazolam	342.1 -> 324...	1/27/2017 8:41 PM	P2-...	6.405	127	1.12	342.1 -> 203...		alpha-hydroxymidazolam-...	346.1 -> 328...	6.425	465460
Amitriptyline	278.2 -> 91.2	1/27/2017 8:41 PM	P2-...	6.191	1199	0.41	278.2 -> 105...	2.32	Amitriptyline-D3	281.2 -> 91.2	6.333	484942
Amoxapine	314.1 -> 271...	1/27/2017 8:41 PM	P2-...	6.511	✓ 887	10.79	314.1 -> 193...	20.90	Amitriptyline-D3	281.2 -> 91.2	6.333	484942
Benzoylecgonine	290.1 -> 168...	1/27/2017 8:41 PM	P2-...	5.371	42	0.40	290.1 -> 105...	1.35	Benzoylecgonine-D8	298.2 -> 171...	5.390	7260
Carbamazepine	237.1 -> 193...	1/27/2017 8:41 PM	P2-...	6.299	66	1.13	237.1 -> 194...	0.66	Carbamazepine-13C6	243.1 -> 200...	6.196	13769...
Chlordiazepoxide	300.1 -> 227...	1/27/2017 8:41 PM	P2-...	6.431	567	2.01	300.1 -> 282...	Infini...	Chlordiazepoxide-D5	305.1 -> 286...	6.533	385535
Clomipramine	315.2 -> 86.2	1/27/2017 8:41 PM	P2-...	6.470	115	0.78	315.2 -> 58.3	7.83	Clomipramine-D3	318.2 -> 89.2	6.510	17758...
Cocaine	304.2 -> 182...	1/27/2017 8:41 PM	P2-...				304.2 -> 105...		Cocaine-D3	307.2 -> 185...	5.572	743869
Desipramine	267.2 -> 72.3	1/27/2017 8:41 PM	P2-...	6.294	✓ 2875	57.50	267.2 -> 44.3	4.95	Desipramine-D3	270.2 -> 75.3	6.294	14242...
Doxepin	280.2 -> 107...	1/27/2017 8:41 PM	P2-...				280.2 -> 77.2		Doxepin-D3	283.2 -> 107...	6.088	604826
Estazolam	295.1 -> 267...	1/27/2017 8:41 PM	P2-...	6.616	37	0.69	295.1 -> 205...	1.31	Estazolam-D5	300.1 -> 272...	6.451	381078
Flunitrazepam	314.1 -> 268...	1/27/2017 8:41 PM	P2-...	6.491	925	1.33	314.1 -> 239...	0.44	Flunitrazepam-D7	321.1 -> 245...	6.470	19458
Flurazepam	388.2 -> 315...	1/27/2017 8:41 PM	P2-...	6.079	25	8.41	388.2 -> 317...	✓	Zopiclone-D4	393.1 -> 244...	5.733	138896
Imipramine	281.2 -> 86.2	1/27/2017 8:41 PM	P2-...	6.354	3636	9.98	281.2 -> 58.3	✓ 1.94	Imipramine-D3	284.2 -> 61.3	6.291	10441...
Levamisole	205.1 -> 91.2	1/27/2017 8:41 PM	P2-...	5.283	123	0.17	205.1 -> 178...		Cocaine-D3	307.2 -> 185...	5.572	743869
Maprotiline	278.2 -> 91.2	1/27/2017 8:41 PM	P2-...	6.191	1788	1.12	278.2 -> 117...	0.39	Meperidine-D4	252.2 -> 224...	5.581	328920
MDA	180.1 -> 163...	1/27/2017 8:41 PM	P2-...	5.023	297	0.74	180.1 -> 105...		MDA-D5	185.1 -> 168...	4.961	270887
MDEA	208.1 -> 163...	1/27/2017 8:41 PM	P2-...				208.1 -> 105...		MDEA-D6	214.2 -> 166...	5.221	652161
MDMA	194.1 -> 163...	1/27/2017 8:41 PM	P2-...	5.002	114	0.95	194.1 -> 105...		MDMA-D6	200.2 -> 166...	5.062	57403
Meperidine	248.2 -> 220...	1/27/2017 8:41 PM	P2-...	5.725	1506	1.50	248.2 -> 174...	1.36	Meperidine-D4	252.2 -> 224...	5.581	328920
Methylphenidate	234.2 -> 84.2	1/27/2017 8:41 PM	P2-...	5.687	897	1.06	234.2 -> 56.3	0.37	Meperidine-D4	252.2 -> 224...	5.581	328920
Metoprolol	268.2 -> 116...	1/27/2017 8:41 PM	P2-...				268.2 -> 56.3		Meperidine-D4	252.2 -> 224...	5.581	328920
Midazolam	326.1 -> 223...	1/27/2017 8:41 PM	P2-...	6.550	9	0.22	326.1 -> 249...	0.41	Midazolam-D4	330.1 -> 295...	6.366	440112
Mirtazapine	266.2 -> 195...	1/27/2017 8:41 PM	P2-...	5.557	65	0.55	266.2 -> 72.3		Midazolam-D4	330.1 -> 295...	6.366	440112
Mitragynine	399.2 -> 174...	1/27/2017 8:41 PM	P2-...				399.2 -> 238...		Carbamazepine-13C6	243.1 -> 200...	6.196	13769...
Normeperidine	234.1 -> 42.3	1/27/2017 8:41 PM	P2-...				234.1 -> 160...		Normeperidine-D4	238.2 -> 164...	5.603	333571
Norpropoxyphene	326.2 -> 44.3	1/27/2017 8:41 PM	P2-...	6.285	65	2.95	326.2 -> 252...		Norpropoxyphene-D5	331.2 -> 44.3	6.182	156922
Nortriptyline	264.2 -> 91.2	1/27/2017 8:41 PM	P2-...	6.336	640	1.75	264.2 -> 233...	3.26	Nortriptyline-D3	267.2 -> 233...	6.315	573240
Ondansetron	294.2 -> 184...	1/27/2017 8:41 PM	P2-...	6.495	35	0.38	294.2 -> 212...		Pentazocine-13C3	289.2 -> 72.3	5.658	477556
Pentazocine	286.2 -> 218...	1/27/2017 8:41 PM	P2-...				286.2 -> 41.3		Pentazocine-13C3	289.2 -> 72.3	5.658	477556
Phenazepam	349.0 -> 206...	1/27/2017 8:41 PM	P2-...	6.425	2341	364.80	349.0 -> 183...	✓	Phenazepam-D4	353.0 -> 183...	6.546	17598
Phencyclidine	244.2 -> 86.2	1/27/2017 8:41 PM	P2-...	6.074	197	0.37	244.2 -> 91.1		Phencydlidine-D5	249.2 -> 86.2	5.869	10291...
Phenytoin	253.1 -> 104...	1/27/2017 8:41 PM	P2-...				253.1 -> 182...		Phenytoin-D10	263.2 -> 192...	6.093	20754
Prazepam	325.1 -> 271...	1/27/2017 8:41 PM	P2-...	7.275	17	0.43	325.1 -> 140...		Prazepam-D5	330.1 -> 276...	6.974	13289...
Primidone	219.1 -> 91.2	1/27/2017 8:41 PM	P2-...	5.627	336	0.42	219.1 -> 162...		Prazepam-D5	330.1 -> 276...	6.974	13289...
Propoxyphene	340.2 -> 58.3	1/27/2017 8:41 PM	P2-...	6.162	118	0.27	340.2 -> 266...		Propoxyphene-D11	351.3 -> 277...	6.181	286526
Protriptyline	264.2 -> 155...	1/27/2017 8:41 PM	P2-...	6.275	43	0.91	264.2 -> 161...	0.67	Nortriptyline-D3	267.2 -> 233...	6.315	573240
Pseudoephedrine	166.1 -> 148...	1/27/2017 8:41 PM	P2-...	4.762	183	0.29	166.1 -> 133...	0.44	Pseudoephedrine-D3	169.1 -> 151...	4.600	556110
Tapentadol	222.2 -> 107...	1/27/2017 8:41 PM	P2-...				222.2 -> 121...		Tapentadol-D3	225.2 -> 107...	5.463	937105
Trimipramine	295.2 -> 100...	1/27/2017 8:41 PM	P2-...	6.391	283	1.53	295.2 -> 58.3	0.77	Trimipramine-D3	298.2 -> 103...	6.371	20146...
Verapamil	455.3 -> 165...	1/27/2017 8:41 PM	P2-...	6.016	28	0.54	455.3 -> 150...		Trimipramine-D3	298.2 -> 103...	6.371	20146...
Zaleplon	306.1 -> 236...	1/27/2017 8:41 PM	P2-...	6.533	66	1.69	306.1 -> 264...		Zaleplon-D4	310.2 -> 240...	6.287	285994
Zopiclone	389.1 -> 244...	1/27/2017 8:41 PM	P2-...	5.713	40	0.47	389.1 -> 216...		Zopiclone-D4	393.1 -> 244...	5.733	138896

ISP Forensic Services: Toxicology Discipline

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

Extraction Date: 1-27-17 **Analyst:** Anne Nord

PRE-ANALYTIC custom 0490364 9-21-17
Plate Lot# ~~A Stock~~ THC plate: ~~0483844 A~~ Plate Exp: ~~6/15/17 A~~

✓ 1. Ensure all solutions are within expiration date.
- Mobile Phase A: **10mM Amm Formate**
- Mobile Phase B: ***0.1% FA in MeOH***
- **0.1% Formic Acid in water**
- **MTBE**
- Blank/Negative Blood**: Lot *321632-1***
- **Hexane**
- *Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)***

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

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

✓ 4. Create worklist. Data path name: 1-27-17 blood screen AM 25-26

ANALYTIC

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

✓ 2. Add **1000 µL blood** to wells of analytical (standards) plate. Mix via aspirate and dispense.
- Blank blood for locations containing standards/QCs and internal standards
- Sample blood for locations containing only internal standards

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

✓ 4. Pipette **500µL 0.1% formic acid** to all wells of standards plate.

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

✓ 6. Transfer **800µL of blood+acid** mixture to corresponding wells of SLE+ plate.

7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Pressure Manifold ID 66729
✓ Wait 5 min.

✓ 8. Add **2.25mL MTBE** and allow to flow under gravity for 5 minutes. ***(add in 3 increments of 750uL)***

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

✓ 10. Add **2.25mL Hexane** and allow to flow under gravity for 5 minutes. ***(add in 3 increments of 750uL)***

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

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

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

POST-ANALYTIC

✓ 1. Open quantitation software and create a new quantitation batch. Batch name: 12717 Conn Screen

✓ 2. Make any necessary integration changes.

✓ 3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% retention time of calibrators?

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

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

Comments:

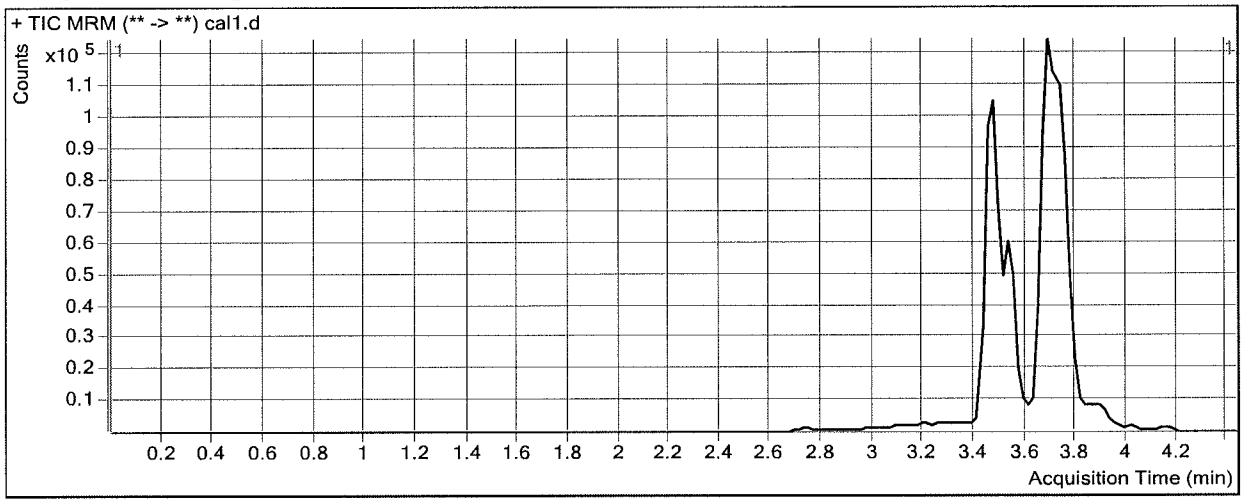
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:04	**Data File**	cal1.d
Sample Type	Calibration	**Sample Name**	cal 1
Dilution	1	**Acq Method**	Screen THC 11102016.m
Position	P1-A1	**Sample Info**	
Inj Vol	-1	**Comment**	

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	18198	390452	0.0466	3.6949
THC-COOH	3.546	11671	136057	0.0858	3.4598
THC	3.760	1345	55241	0.0243	3.6577

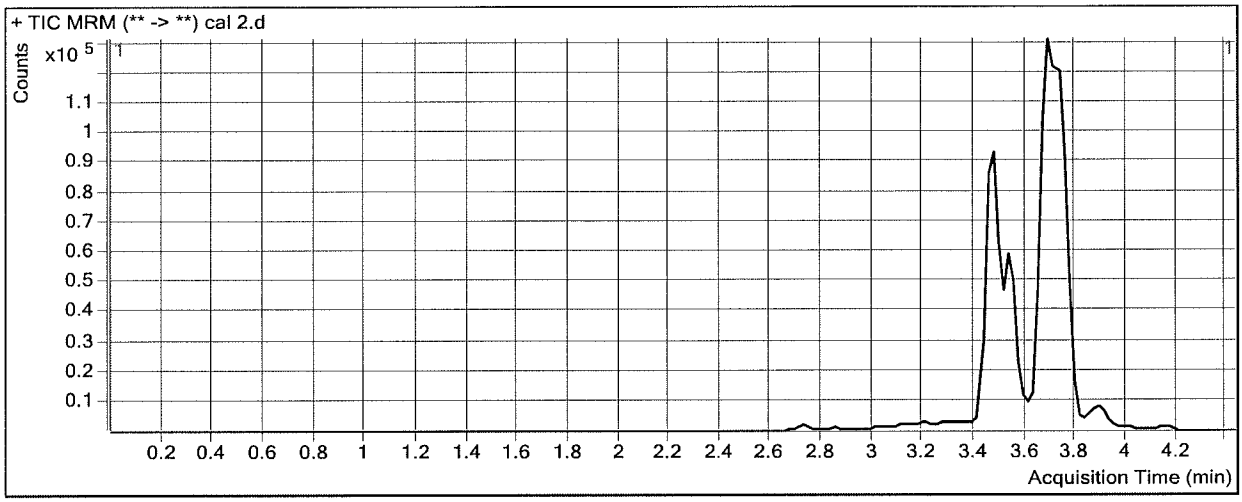
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:10	**Data File**	cal 2.d
Sample Type	Calibration	**Sample Name**	cal 2
Dilution	1	**Acq Method**	Screen THC 11102016.m
Position	P1-B1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	19575	336051	0.0582	4.4563
THC-COOH	3.546	16868	129330	0.1304	4.8897
THC	3.740	2313	49783	0.0465	4.9924

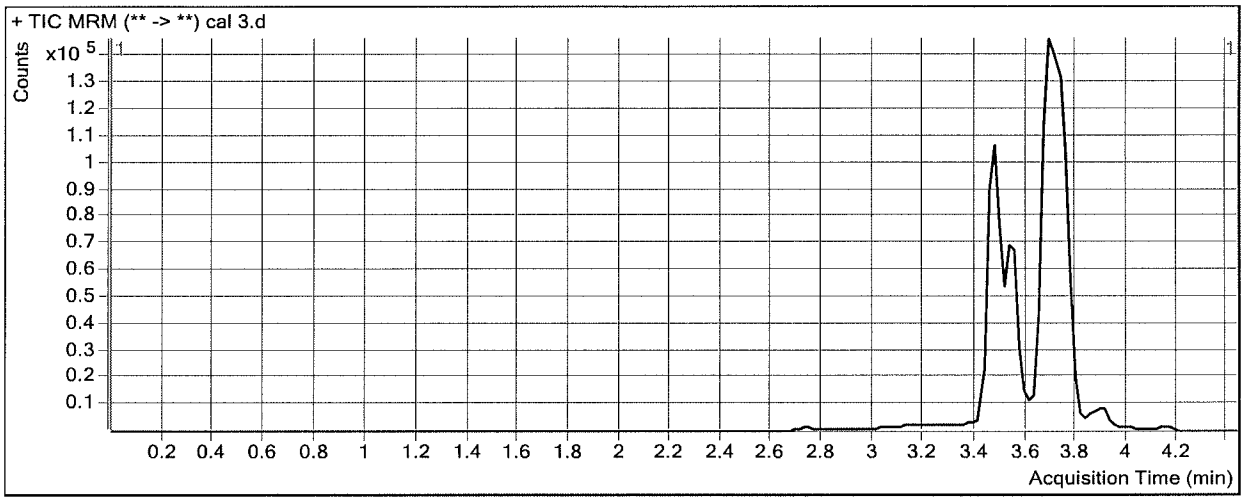
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:17	**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-OH	3.473	40559	365271	0.1110	7.9092
THC-COOH	3.546	32170	145953	0.2204	7.7719
THC	3.740	5239	56993	0.0919	7.7365

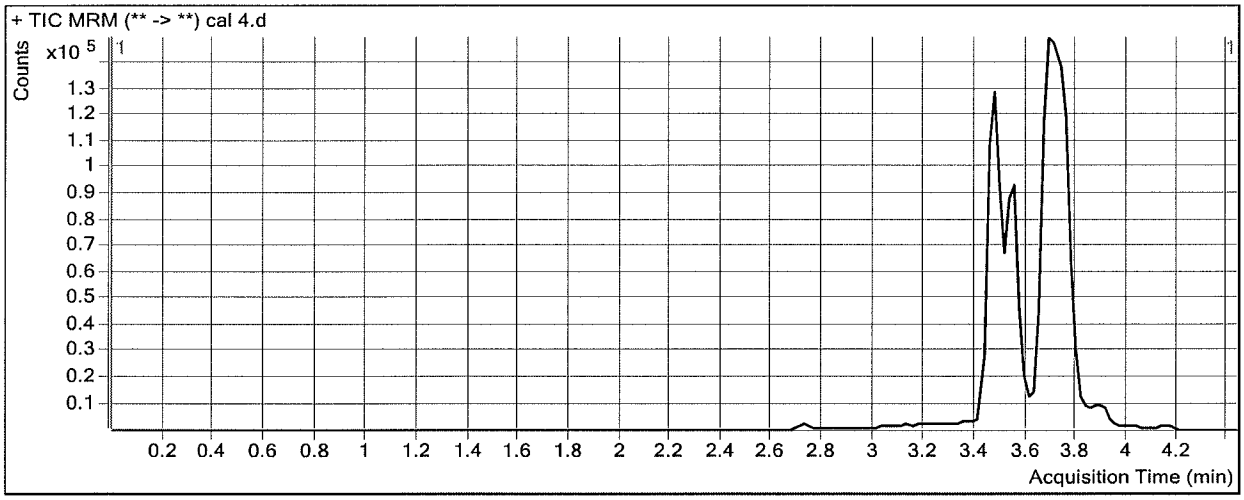
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:24	**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-OH	3.473	97883	400259	0.2445	16.6417
THC-COOH	3.546	75241	151115	0.4979	16.6600
THC	3.760	13730	60339	0.2276	15.9233

This point was dropped from the curve.

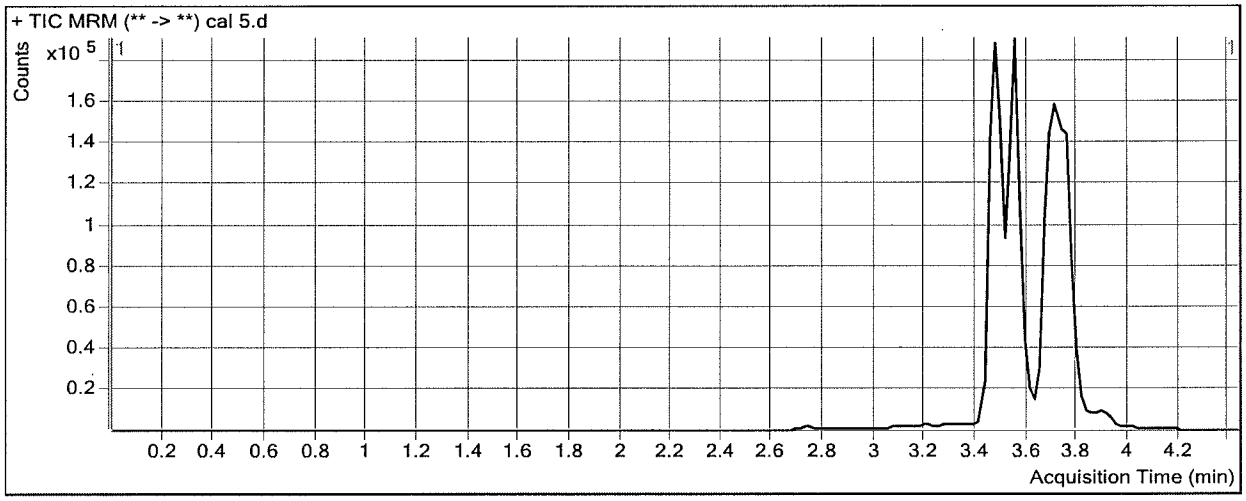
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:30	**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-OH	3.473	306733	399502	0.7678	50.8654
THC-COOH	3.546	246160	158509	1.5530	50.4535
THC	3.760	47405	63169	0.7504	47.4841

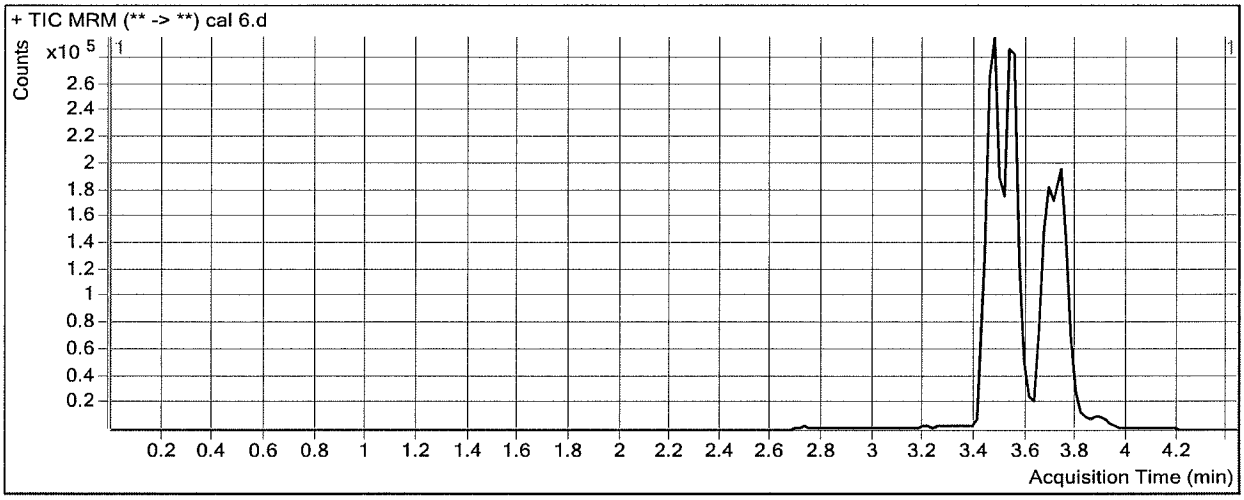
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:37	**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-OH	3.473	701328	416580	1.6835	110.7623
THC-COOH	3.546	515550	147316	3.4996	112.8044
THC	3.740	106970	61561	1.7376	107.0703

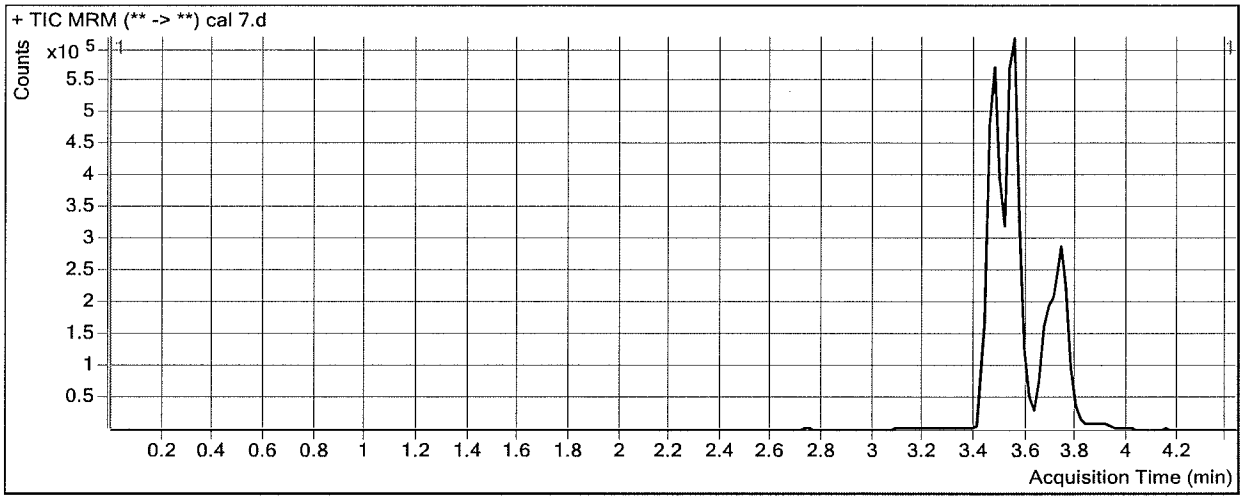
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:50	**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-OH	3.473	1639473	447430	3.6642	240.3118
THC-COOH	3.546	1165377	156896	7.4277	238.6207
THC	3.740	291595	71876	4.0569	247.0589

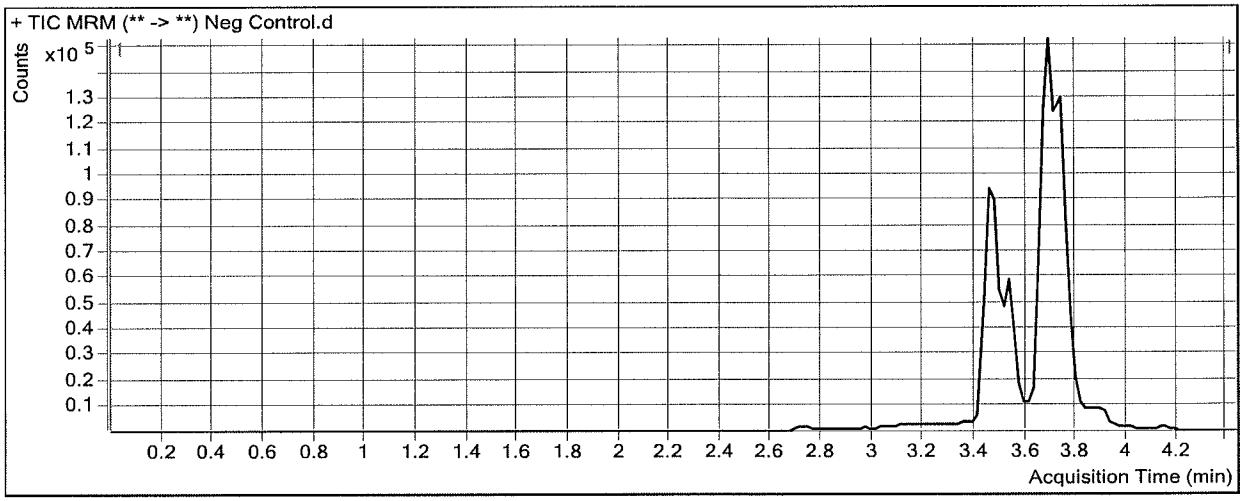
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:43	**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

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.526	6208	141309	0.0439	2.1192

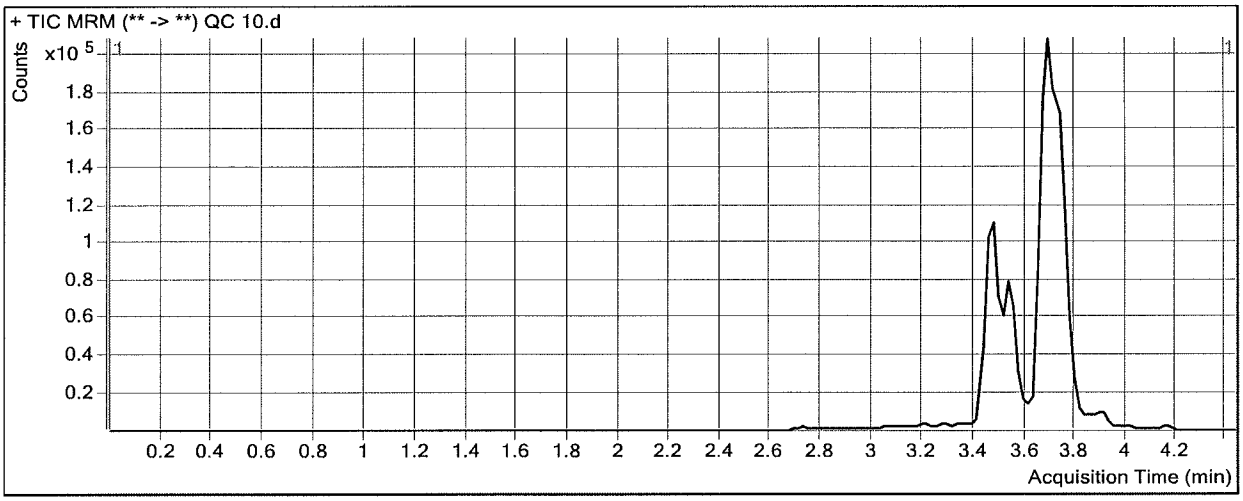
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 14:57	**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-OH	3.473	41231	397997	0.1036	7.4224
THC-COOH	3.546	34652	158295	0.2189	7.7238
THC	3.740	6252	71200	0.0878	7.4881

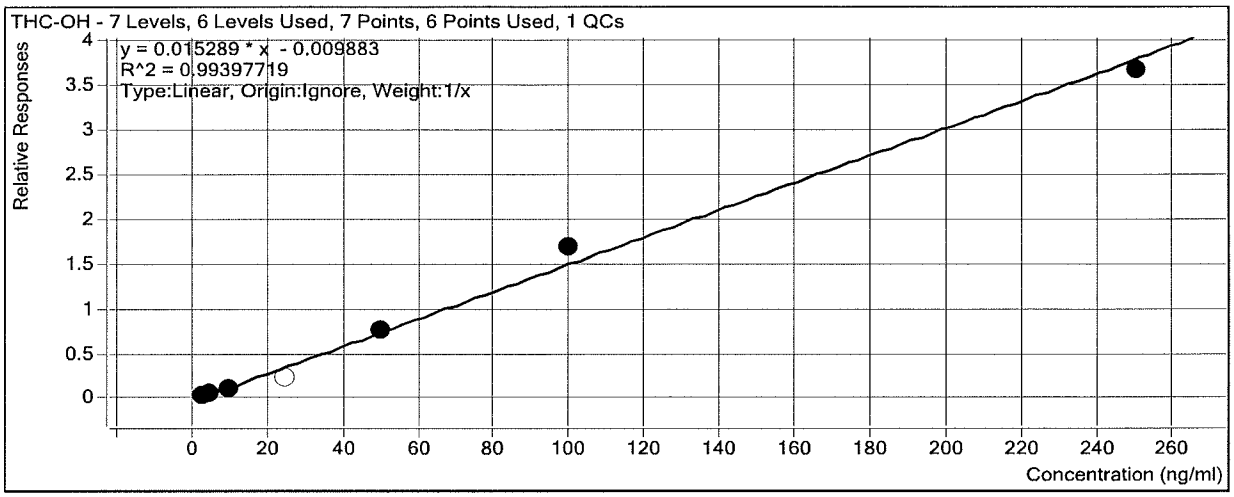
ISP Forensics
Calibration Curve Report

Batch Data Path D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin

Last Calib Update 1/30/2017 1:09 PM **Analyst Name** ISP TOX

Target Compound *THC-OH*

Internal Standard *THC-OH-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1	1	☑	3	3.7	123.2
cal 2	2	☑	5	4.5	89.1
cal 3	3	☑	10	7.9	79.1
QC 10	3	☑	10	7.4	74.2
cal 4	4	☐	25	16.6	66.6
cal 5	5	☑	50	50.9	101.7
cal 6	6	☑	100	110.8	110.8
cal 7	7	☑	250	240.3	96.1

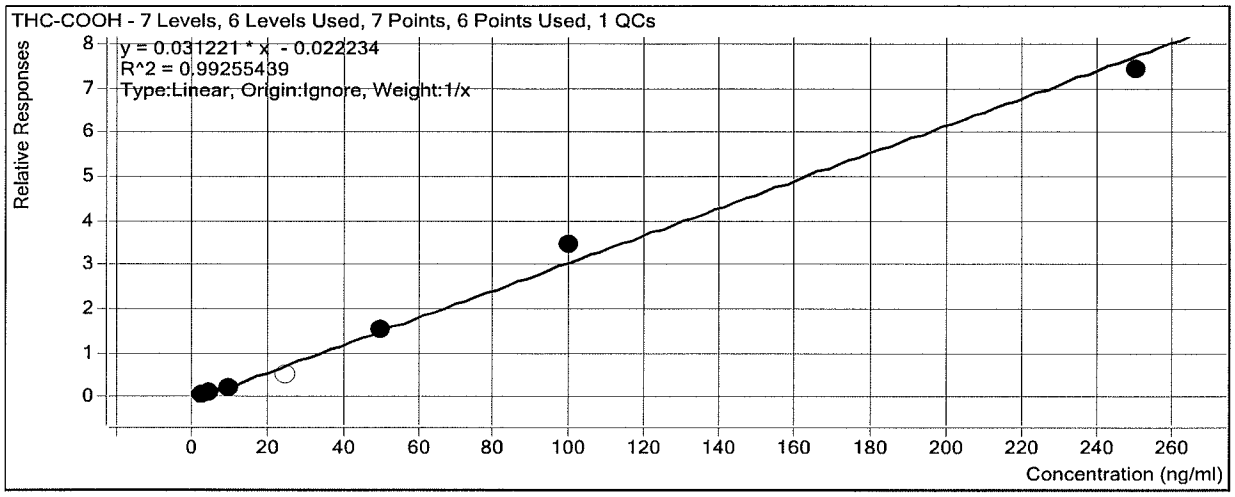
ISP Forensics
Calibration Curve Report

Batch Data Path D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin

Last Calib Update 1/30/2017 1:09 PM **Analyst Name** ISP TOX

Target Compound *THC-COOH*

Internal Standard *THC-COOH-d9*



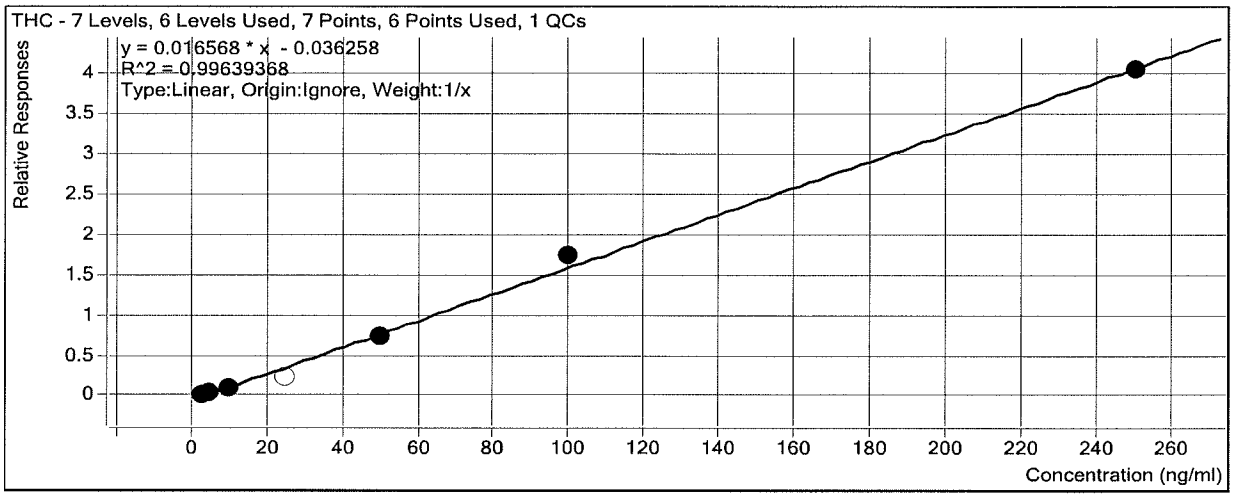
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1	1	☑	3	3.5	115.3
cal 2	2	☑	5	4.9	97.8
cal 3	3	☑	10	7.8	77.7
QC 10	3	☑	10	7.7	77.2
cal 4	4	☐	25	16.7	66.6
cal 5	5	☑	50	50.5	100.9
cal 6	6	☑	100	112.8	112.8
cal 7	7	☑	250	238.6	95.4

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin

Last Calib Update 1/30/2017 1:09 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1	1	☑	3	3.7	121.9
cal 2	2	☑	5	5.0	99.8
cal 3	3	☑	10	7.7	77.4
QC 10	3	☑	10	7.5	74.9
cal 4	4	☐	25	15.9	63.7
cal 5	5	☑	50	47.5	95.0
cal 6	6	☑	100	107.1	107.1
cal 7	7	☑	250	247.1	98.8

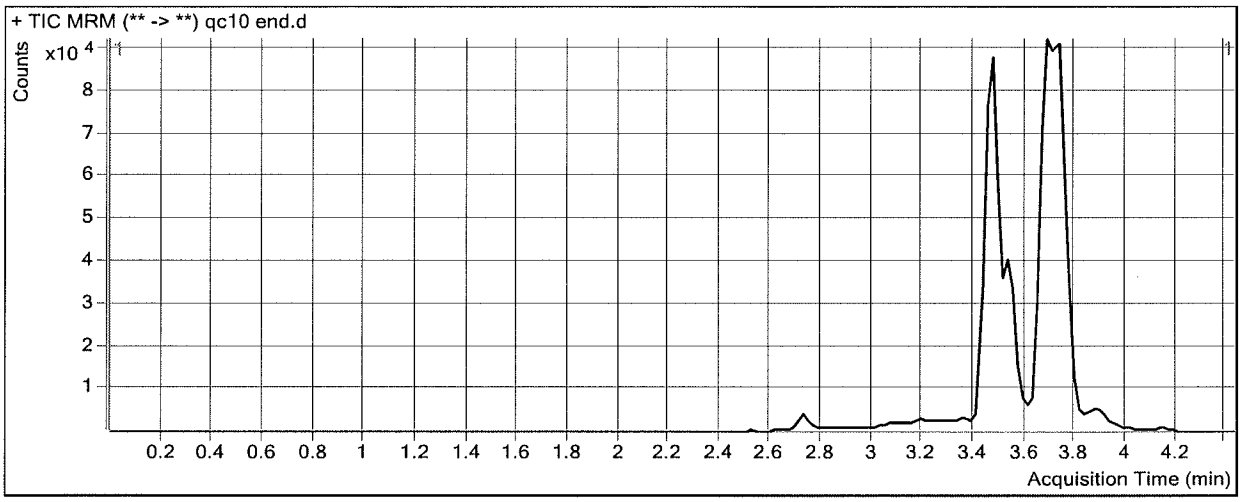
ISP FORENSICS - Cd'A
Cannabionoid Screen Report

Batch Data Path	D:\2017 Data\1-27-17 blood screen AM 25-26\QuantResults\12717 cann screen.batch.bin		
Analysis Time	1/30/2017 1:09 PM	**Analyst Name**	ISP Tox
Report Time	1/30/2017 1:10 PM	**Reporter Name**	ISP Tox
Last Calib Update	1/30/2017 1:09 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-01-27 18:28	**Data File**	qc10 end.d
Sample Type	Sample	**Sample Name**	qc10 end
Dilution	1	**Acq Method**	Screen THC 11102016.m
Position	P1-A6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	32104	292917	0.1096	7.8151
THC-COOH	3.546	18745	78295	0.2394	8.3804
THC	3.760	2762	27997	0.0987	8.1440

Idaho State Police
Forensic Services
Toxicology Discipline

Request for Departure from an Analytical Method

Date of Request
12/14/16

Analytical Method
AM 25 multidrug screen

Deviation

4.3.1.5 Retention time criterion for peak identification is a ±2% retention time window relative to the internal control and/or internal standards around the analytes retention time.

At the analysts discretion when the analyte peak falls outside the retention time window and the internal standard also shifts comparably that sample may be evaluated as positive if the other criteria are met.

4.3.1.6 Case Samples, external controls and negative controls will generally be considered negative if the primary transition response is less than 10 times less that of the internal control.

Samples between 5 and 10 times less response may be evaluated as negative at the analyst's discretion.

If the primary transition response for methamphetamine is less than the internal control it may be evaluated as negative. The administrative threshold is currently 10 ng/ml for methamphetamine.

Discipline Leader Review

☒ Departure approved
Comments: These are minor deviations, this deviation approval will be in effect until the method is updated to include these criteria.

☐ Departure Not Approved
Comments:

Date: 12/14/16
Celena Shrum
Toxicology Program Discipline Leader