
























B. Wylee

Worklist: 1850

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1519	1	91168	AM 25/AM 26 Blood MultiDrug/	
C2017-1554	1	91528	AM 25/AM 26 Blood MultiDrug/	
C2017-1555	1	91532	AM 25/AM 26 Blood MultiDrug/	
C2017-1556	1	91538	AM 25/AM 26 Blood MultiDrug/	
C2017-1598	1	91999	AM 25/AM 26 Blood MultiDrug/	
C2017-1600	1	91983	AM 25/AM 26 Blood MultiDrug/	
C2017-1601	1	91985	AM 25/AM 26 Blood MultiDrug/	
C2017-1603	1	91994	AM 25/AM 26 Blood MultiDrug/	
C2017-1606	1	92031	AM 25/AM 26 Blood MultiDrug/	
C2017-1609	1	92044	AM 25/AM 26 Blood MultiDrug/	
C2017-1610	1	92046	AM 25/AM 26 Blood MultiDrug/	
C2017-1649	1	92582	AM 25/AM 26 Blood MultiDrug/	
C2017-1650	1	92584	AM 25/AM 26 Blood MultiDrug/	
C2017-1652	1	92594	AM 25/AM 26 Blood MultiDrug/	
C2017-1653	1	92596	AM 25/AM 26 Blood MultiDrug/	
C2017-1655	1	92650	AM 25/AM 26 Blood MultiDrug/	
C2017-1656	1	92654	AM 25/AM 26 Blood MultiDrug/	
C2017-1669	1	92719	AM 25/AM 26 Blood MultiDrug/	
C2017-1671	1	92753	AM 25/AM 26 Blood MultiDrug/	
M2017-3278	1	92821	AM 25/AM 26 Blood MultiDrug/	
M2017-3372	1	92822	AM 25/AM 26 Blood MultiDrug/	
M2017-3469	1	92726	AM 25/AM 26 Blood MultiDrug/	
M2017-3500	1	92727	AM 25/AM 26 Blood MultiDrug/	



Worklist: 1850

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
M2017-3502	1	91412	AM 25/AM 26 Blood MultiDrug/
M2017-3562	1	92729	AM 25/AM 26 Blood MultiDrug/
M2017-3613	1	92823	AM 25/AM 26 Blood MultiDrug/



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

Extraction Date: 8-21-17

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: 82117 blood screen AM 25-26

ANALYTIC

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

✓ 2. Pipette **250µL blood (calibrated pipette)** in wells of analytical (standards) plate.

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

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

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

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

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

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

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

Wait 5 min.

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

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

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

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

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

SPE Dry ID 66819

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

POST-ANALYTIC

✓ 1. Open quantitation software and create a new quantitation batch. Batch name: 82117 MOS p1

✓ 2. Make any necessary integration changes.

✓ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/5 the response of administrative control.

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

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

COMMENTS:

Toxicology AM method 25 external prep information
working solution 10000 ng/ml in meoh mirtazapine, amitriptyline, codeine, diphenhydramine, 20000 ng/ml meoh morphine
Stock solution 1mg/ml 100 ul each for all except morphine 200 ul in 9400 ul meoh
Ppd 3/31/17 Exp: 9/21/17 lot 92117

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

AM 25 control 100 ul working solution in 9900 ul blood lot 62117
ppd 3/21/17 Exp 6/21/17 by AMN Concentration 100ng/ml amitriptyline, codeine, diphenhydramine, mirtazapine
200/ng/ml morphine

EA

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

A

Compound Method			p1 cal 1-1a			p1 cal 1-1a Results			Qualifier 1 M...			Qualifier 1 ...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	8/21/2017 3:51 PM	4.934	881	166.46	328.2 -> 211...	881	166.46	328.2 -> 211...	881	166.46	328.2 -> 165...	6-MAM-D6	334.2 -> 165...	4.914	29108			
7-aminoclonazepam	286.1 -> 121...	8/21/2017 3:51 PM	5.572	21162	230.93	286.1 -> 222...	21162	230.93	286.1 -> 222...	21162	230.93	290.1 -> 121...	7-Aminoclonazepam-D4	290.1 -> 121...	5.550	91384			
Acetyl Fentanyl	323.2 -> 105...	8/21/2017 3:51 PM	5.770	11317	16.47	323.2 -> 188...	11317	16.47	323.2 -> 188...	11317	16.47	328.2 -> 105...	Acetyl Fentanyl-D5	328.2 -> 105...	5.768	656279			
Acetyl Norfentanyl	219.1 -> 84.2	8/21/2017 3:51 PM	4.889	7699	137.90	219.1 -> 56.3	7699	137.90	219.1 -> 56.3	7699	137.90	224.2 -> 84.2	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.868	348537			
a-hydroxylprazolam	325.1 -> 297...	8/21/2017 3:51 PM	6.379	4764	43.56	325.1 -> 215...	4764	43.56	325.1 -> 215...	4764	43.56	330.1 -> 302...	a-hydroxylprazolam-D5	330.1 -> 302...	6.378	24700			
alpha-PVP	232.2 -> 91.0	8/21/2017 3:51 PM	5.538	60012	180.58	232.2 -> 77.1	60012	180.58	232.2 -> 77.1	60012	180.58	240.2 -> 91.1	alpha-PVP-d8	240.2 -> 91.1	5.516	277676			
Alprazolam	309.1 -> 281...	8/21/2017 3:51 PM	6.465	37036	78.84	309.1 -> 205...	37036	78.84	309.1 -> 205...	37036	78.84	314.1 -> 286...	Alprazolam-D5	314.1 -> 286...	6.464	141013			
Amphetamine	136.1 -> 91.1	8/21/2017 3:51 PM	4.810	87478	8.68	136.1 -> 119...	87478	8.68	136.1 -> 119...	87478	8.68	147.2 -> 130...	Amphetamine-D11	147.2 -> 130...	4.769	107418			
Bupropion	240.1 -> 184...	8/21/2017 3:51 PM	5.721	64277	20432...	240.1 -> 131...	64277	20432...	240.1 -> 131...	64277	20432...	249.2 -> 185...	Bupropion-D9	249.2 -> 185...	5.720	295805			
Carisoprodol	261.2 -> 176...	8/21/2017 3:51 PM	6.127	38298	60.07	261.2 -> 55.3	38298	60.07	261.2 -> 55.3	38298	60.07	268.2 -> 183...	Carisoprodol-D7	268.2 -> 183...	6.126	237851			
Citalopram	325.2 -> 109...	8/21/2017 3:51 PM	6.033	102082	99.76	325.2 -> 262...	102082	99.76	325.2 -> 262...	102082	99.76	331.2 -> 109...	Citalopram-D6	331.2 -> 109...	6.032	487786			
Clonazepam	316.1 -> 269...	8/21/2017 3:51 PM	6.320	13697	54.48	316.1 -> 213...	13697	54.48	316.1 -> 213...	13697	54.48	320.1 -> 217...	Clonazepam-D4	320.1 -> 217...	6.320	19187			
Codeine	300.2 -> 215...	8/21/2017 3:51 PM	4.777	4804	29.37	300.2 -> 165...	4804	29.37	300.2 -> 165...	4804	29.37	306.2 -> 218...	Codeine-D6	306.2 -> 218...	4.775	21808			
Cyclobenzaprine	276.2 -> 214...	8/21/2017 3:51 PM	6.288	56546	123.27	276.2 -> 231...	56546	123.27	276.2 -> 231...	56546	123.27	279.2 -> 215...	Cyclobenzaprine-D3	279.2 -> 215...	6.287	281765			
Dextromethorphan	272.2 -> 171...	8/21/2017 3:51 PM	6.063	26400	109.83	272.2 -> 147...	26400	109.83	272.2 -> 147...	26400	109.83	275.2 -> 171...	Dextromethorphan-D3	275.2 -> 171...	6.063	132891			
Dextropropion	258.2 -> 157...	8/21/2017 3:51 PM	5.413	25319	8733.08	258.2 -> 133...	25319	8733.08	258.2 -> 133...	25319	8733.08	261.2 -> 157...	Dextropropion-D3	261.2 -> 157...	5.412	125964			
Diazepam	285.1 -> 193...	8/21/2017 3:51 PM	6.691	26067	38.03	285.1 -> 153...	26067	38.03	285.1 -> 153...	26067	38.03	290.1 -> 198...	Diazepam-D5	290.1 -> 198...	6.670	116411			
Dihydrocodeine	302.2 -> 198...	8/21/2017 3:51 PM	4.736	13740	259.80	302.2 -> 128...	13740	259.80	302.2 -> 128...	13740	259.80	308.2 -> 202...	Dihydrocodeine-D6	308.2 -> 202...	4.714	72699			
Diphenhydramine	256.2 -> 167...	8/21/2017 3:51 PM	6.005	146687	152.05	256.2 -> 152...	146687	152.05	256.2 -> 152...	146687	152.05	259.2 -> 167...	Diphenhydramine-D3	259.2 -> 167...	6.005	764773			
Doxylamine	271.2 -> 182...	8/21/2017 3:51 PM	5.677	137743	25.30	271.2 -> 167...	137743	25.30	271.2 -> 167...	137743	25.30	276.2 -> 187...	Doxylamine-D5	276.2 -> 187...	5.656	640303			
EDDP	279.2 -> 235...	8/21/2017 3:51 PM	6.062	62094	1123.41	279.2 -> 250...	62094	1123.41	279.2 -> 250...	62094	1123.41	282.2 -> 235...	EDDP-D3	282.2 -> 235...	6.061	25266			
Fentanyl	337.2 -> 105...	8/21/2017 3:51 PM	5.971	13605	59.40	337.2 -> 188...	13605	59.40	337.2 -> 188...	13605	59.40	342.3 -> 105...	Fentanyl-D5	342.3 -> 105...	5.971	620135			
Fluoxetine	310.1 -> 44.3	8/21/2017 3:51 PM	6.261	171191	Infinity	310.1 -> 148...	171191	Infinity	310.1 -> 148...	171191	Infinity	322.2 -> 304...	Oxycodone-D6	322.2 -> 304...	4.895	125721			
Hydrocodone	300.2 -> 198...	8/21/2017 3:51 PM	5.000	18773	121.22	300.2 -> 128...	18773	121.22	300.2 -> 128...	18773	121.22	306.2 -> 202...	Hydrocodone-D6	306.2 -> 202...	4.998	106666			
Hydromorphone	286.2 -> 184...	8/21/2017 3:51 PM	4.398	14811	54.98	286.2 -> 157...	14811	54.98	286.2 -> 157...	14811	54.98	292.2 -> 185...	Hydromorphone-D6	292.2 -> 185...	4.377	55460			
Ketamine	238.1 -> 125...	8/21/2017 3:51 PM	5.395	39438	134.64	238.1 -> 220...	39438	134.64	238.1 -> 220...	39438	134.64	242.1 -> 129...	Ketamine-D4	242.1 -> 129...	5.374	154487			
Meprobamate	219.1 -> 158...	8/21/2017 3:51 PM	5.641	11939	Infinity	219.1 -> 97.1	11939	Infinity	219.1 -> 97.1	11939	Infinity	226.2 -> 165...	Meprobamate-D7	226.2 -> 165...	5.641	50756			
Methadone	310.2 -> 265...	8/21/2017 3:51 PM	6.321	125666	178.07	310.2 -> 105...	125666	178.07	310.2 -> 105...	125666	178.07	319.3 -> 268...	Methadone-D9	319.3 -> 268...	6.320	661871			
Methamphetamine	150.1 -> 91.1	8/21/2017 3:51 PM	4.971	106218	13.31	150.1 -> 119...	106218	13.31	150.1 -> 119...	106218	13.31	161.2 -> 97.1	Methamphetamine-D11	161.2 -> 97.1	4.930	282368			
Morphine	286.2 -> 201...	8/21/2017 3:51 PM	4.136	3322	8.76	286.2 -> 165...	3322	8.76	286.2 -> 165...	3322	8.76	292.2 -> 152...	Morphine-D6	292.2 -> 152...	4.115	3363			
Naloxone	328.2 -> 309...	8/21/2017 3:51 PM	4.752	14188	51.56	328.2 -> 211...	14188	51.56	328.2 -> 211...	14188	51.56	333.2 -> 315...	Naloxone-D5	333.2 -> 315...	4.732	93073			
Naltrexol	344.2 -> 326...	8/21/2017 3:51 PM	4.913	49167	151.93	344.2 -> 308...	49167	151.93	344.2 -> 308...	49167	151.93	347.2 -> 329...	Naltrexol-D3	347.2 -> 329...	4.912	193518			
Naltrexone	342.2 -> 324...	8/21/2017 3:51 PM	4.853	22674	450.97	342.2 -> 55.3	22674	450.97	342.2 -> 55.3	22674	450.97	345.2 -> 327...	Naltrexone-D3	345.2 -> 327...	4.852	127087			
Norbuprenorphine	414.3 -> 101...	8/21/2017 3:51 PM	5.826	2922	12.93	414.3 -> 57.3	2922	12.93	414.3 -> 57.3	2922	12.93	417.3 -> 101...	Norbuprenorphine-D3	417.3 -> 101...	5.806	16314			
Nordiazepam	271.1 -> 140...	8/21/2017 3:51 PM	6.574	16855	11.03	271.1 -> 208...	16855	11.03	271.1 -> 208...	16855	11.03	276.1 -> 140...	Nordiazepam-D5	276.1 -> 140...	6.552	54448			
Norfentanyl	233.2 -> 84.2	8/21/2017 3:51 PM	5.354	104385	885.38	233.2 -> 55.3	104385	885.38	233.2 -> 55.3	104385	885.38	238.2 -> 84.2	Norfentanyl-D5	238.2 -> 84.2	5.333	451951			
Norhydrocodone	286.2 -> 199...	8/21/2017 3:51 PM	4.961	1665	8.36	286.2 -> 171...	1665	8.36	286.2 -> 171...	1665	8.36	289.2 -> 207...	Norhydrocodone-D3	289.2 -> 207...	4.940	82334			
Noroxycodone	302.1 -> 284...	8/21/2017 3:51 PM	4.898	18388	27.04	302.1 -> 186...	18388	27.04	302.1 -> 186...	18388	27.04	305.2 -> 287...	Noroxycodone-D3	305.2 -> 287...	4.876	82359			
O-desmethyl-tramadol	250.2 -> 58.3	8/21/2017 3:51 PM	4.905	103337	Infinity	250.2 -> 42.3	103337	Infinity	250.2 -> 42.3	103337	Infinity	256.2 -> 64.3	O-desmethyl-tramadol...	256.2 -> 64.3	4.905	445087			
Oxazepam	287.1 -> 240...	8/21/2017 3:51 PM	6.386	14199	3549.15	287.1 -> 268...	14199	3549.15	287.1 -> 268...	14199	3549.15	292.1 -> 246...	Oxazepam-D5	292.1 -> 246...	6.386	77522			
Oxycodone	316.2 -> 298...	8/21/2017 3:51 PM	4.915	23803	60.52	316.2 -> 241...	23803	60.52	316.2 -> 241...	23803	60.52	322.2 -> 304...	Oxycodone-D6	322.2 -> 304...	4.895	125721			
Oxymorphone	302.1 -> 284...	8/21/2017 3:51 PM	4.233	21392	Infinity	302.1 -> 227...	21392	Infinity	302.1 -> 227...	21392	Infinity	305.2 -> 287...	Oxymorphone-D3	305.2 -> 287...	4.212	103600			
Phentermine	150.1 -> 65.2	8/21/2017 3:51 PM	5.153	30328	Infinity	150.1 -> 133...	30328	Infinity	150.1 -> 133...	30328	Infinity	155.2 -> 96.2	Phentermine-D5	155.2 -> 96.2	5.113	272972			
Promethazine	285.1 -> 86.2	8/21/2017 3:51 PM	6.265	178420	438.72	285.1 -> 71.3	178420	438.72	285.1 -> 71.3	178420	438.72	288.2 -> 89.2	Promethazine-D3	288.2 -> 89.2	6.264	1000533			
Quetiapine	384.2 -> 253...	8/21/2017 3:51 PM	6.234	140390	1382.98	384.2 -> 221...	140390	1382.98	384.2 -> 221...	140390	1382.98	392.2 -> 226...	Quetiapine-D8	392.2 -> 226...	6.213	175518			

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Compound Method		p1 cal 1-1a			p1 cal 1-1a Results			Qualifier 1 M...		Qualifier 1...			ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
Sertraline	306.1 -> 158...	8/21/2017 3:51 PM	6.486	49566		820.59	306.1 -> 275...		7109...	Sertraline-D3	309.1 -> 275...	6.485	241169			
Sufentanil	387.2 -> 238...	8/21/2017 3:51 PM	6.193	9797		1659.02	387.2 -> 111...		22.52	Sufentanil-D5	392.2 -> 238...	6.213	403979			
Temazepam	301.1 -> 255...	8/21/2017 3:51 PM	6.527	51083		130.69	301.1 -> 283...		11.52	Temazepam-D5	306.1 -> 260...	6.506	247647			
Tramadol	264.2 -> 58.3	8/21/2017 3:51 PM	5.432	124807		140.85	264.2 -> 43.3		7.13	Tramadol-13C-D3	268.2 -> 58.3	5.432	624446			
Trazodone	372.2 -> 176...	8/21/2017 3:51 PM	6.153	104556		387.73	372.2 -> 148...		289.38	Trazodone-D6	378.2 -> 182...	6.112	478608			
Venlafaxine	278.2 -> 58.3	8/21/2017 3:51 PM	5.798	130972		108.23	278.2 -> 260...		21.95	Venlafaxine-D6	284.2 -> 64.3	5.797	577829			
Zolpidem	308.2 -> 235...	8/21/2017 3:51 PM	5.916	102179		15273....	308.2 -> 263...		152.76	Zolpidem-D6	314.2 -> 235...	5.914	467889			

Compound Method			p1 negative				p1 negative Results				Qualifier 1 M...				Qualifie...				ISTD Method				ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.	Name	Transition	RT	Resp.				
6-MAM	328.2 -> 165...	8/21/2017 4:20 PM					328.2 -> 211...						6-MAM-D6	334.2 -> 165...	4.893	38048								
7-aminoclonazepam	286.1 -> 121...	8/21/2017 4:20 PM					286.1 -> 222...						7-Aminoclonazepam-D4	290.1 -> 121...	5.550	126618								
Acetyl Fentanyl	323.2 -> 105...	8/21/2017 4:20 PM					323.2 -> 188...						Acetyl Fentanyl-D5	328.2 -> 105...	5.768	979795								
Acetyl Norfentanyl	219.1 -> 84.2	8/21/2017 4:20 PM					219.1 -> 56.3						Acetyl Norfentanyl-D5	224.2 -> 84.2	4.868	401964								
a-hydroxylprazolam	325.1 -> 297...	8/21/2017 4:20 PM					325.1 -> 215...						a-hydroxylprazolam-D5	330.1 -> 302...	6.378	33819								
alpha-PVP	232.2 -> 91.0	8/21/2017 4:20 PM					232.2 -> 77.1						alpha-PVP-d8	240.2 -> 91.1	5.516	421772								
Alprazolam	309.1 -> 281...	8/21/2017 4:20 PM	6.302	2899		18.26	309.1 -> 205...						Alprazolam-D5	314.1 -> 286...	6.464	216130								
Amphetamine	136.1 -> 91.1	8/21/2017 4:20 PM	4.972	34578		21.68	136.1 -> 119...						Amphetamine-D11	147.2 -> 130...	4.769	145604								
Bupropion	240.1 -> 184...	8/21/2017 4:20 PM					240.1 -> 131...						Bupropion-D9	249.2 -> 185...	5.700	429850								
Carisoprodol	261.2 -> 176...	8/21/2017 4:20 PM					261.2 -> 55.3						Carisoprodol-D7	268.2 -> 183...	6.126	337809								
Citalopram	325.2 -> 109...	8/21/2017 4:20 PM					325.2 -> 262...						Citalopram-D6	331.2 -> 109...	6.032	783618								
Clonazepam	316.1 -> 269...	8/21/2017 4:20 PM					316.1 -> 213...						Clonazepam-D4	320.1 -> 217...	6.320	28508								
Codeine	300.2 -> 215...	8/21/2017 4:20 PM					300.2 -> 165...						Codeine-D6	306.2 -> 218...	4.755	28783								
Cyclobenzaprine	276.2 -> 214...	8/21/2017 4:20 PM					276.2 -> 231...						Cyclobenzaprine-D3	279.2 -> 215...	6.287	422253								
Dextromethorphan	272.2 -> 171...	8/21/2017 4:20 PM					272.2 -> 147...						Dextromethorphan-D3	275.2 -> 171...	6.063	196903								
Dextropropion	258.2 -> 157...	8/21/2017 4:20 PM					258.2 -> 133...						Dextropropion-D3	261.2 -> 157...	5.412	209332								
Diazepam	285.1 -> 193...	8/21/2017 4:20 PM					285.1 -> 153...						Diazepam-D5	290.1 -> 198...	6.690	174680								
Dihydrocodeine	302.2 -> 198...	8/21/2017 4:20 PM					302.2 -> 128...						Dihydrocodeine-D6	308.2 -> 202...	4.714	102913								
Diphenhydramine	256.2 -> 167...	8/21/2017 4:20 PM					256.2 -> 152...						Diphenhydramine-D3	259.2 -> 167...	6.005	11937...								
Doxylamine	271.2 -> 182...	8/21/2017 4:20 PM					271.2 -> 167...						Doxylamine-D5	276.2 -> 187...	5.656	977638								
EDDP	279.2 -> 235...	8/21/2017 4:20 PM					279.2 -> 250...						EDDP-D3	282.2 -> 235...	6.061	57059								
Fentanyl	337.2 -> 105...	8/21/2017 4:20 PM					337.2 -> 188...						Fentanyl-D5	342.3 -> 105...	5.971	919948								
Fluoxetine	310.1 -> 44.3	8/21/2017 4:20 PM					310.1 -> 148...						Oxycodone-D6	322.2 -> 304...	4.895	184279								
Hydrocodone	300.2 -> 198...	8/21/2017 4:20 PM	4.939	91		48.62	300.2 -> 128...						Hydrocodone-D6	306.2 -> 202...	4.977	160491								
Hydromorphone	286.2 -> 184...	8/21/2017 4:20 PM					286.2 -> 157...						Hydromorphone-D6	292.2 -> 185...	4.397	60916								
Ketamine	238.1 -> 125...	8/21/2017 4:20 PM					238.1 -> 220...						Ketamine-D4	242.1 -> 129...	5.374	235797								
Meprobamate	219.1 -> 158...	8/21/2017 4:20 PM	5.600	1067		0.46	219.1 -> 97.1						Meprobamate-D7	226.2 -> 165...	5.641	71273								
Methadone	310.2 -> 265...	8/21/2017 4:20 PM					310.2 -> 105...						Methadone-D9	319.3 -> 268...	6.320	989826								
Methamphetamine	150.1 -> 91.1	8/21/2017 4:20 PM	5.011	35721		3.05	150.1 -> 119...						Methamphetamine-D11	161.2 -> 97.1	4.950	401289								
Morphine	286.2 -> 201...	8/21/2017 4:20 PM	4.157	36		0.37	286.2 -> 165...						Morphine-D6	292.2 -> 152...	4.095	4103								
Naloxone	328.2 -> 309...	8/21/2017 4:20 PM	4.732	60		40.29	328.2 -> 211...						Naloxone-D5	333.2 -> 315...	4.732	128578								
Naltrexol	344.2 -> 326...	8/21/2017 4:20 PM	4.852	3937		16.02	344.2 -> 308...						Naltrexol-D3	347.2 -> 329...	4.912	277378								
Naltrexone	342.2 -> 324...	8/21/2017 4:20 PM	4.772	15		0.17	342.2 -> 55.3						Naltrexone-D3	345.2 -> 327...	4.852	158946								
Norbuprenorphine	414.3 -> 101...	8/21/2017 4:20 PM					414.3 -> 57.3						Norbuprenorphine-D3	417.3 -> 101...	5.806	24999								
Nordiazepam	271.1 -> 140...	8/21/2017 4:20 PM	6.553	141		41.59	271.1 -> 208...						Nordiazepam-D5	276.1 -> 140...	6.552	83376								
Norfentanyl	233.2 -> 84.2	8/21/2017 4:20 PM					233.2 -> 55.3						Norfentanyl-D5	238.2 -> 84.2	5.333	568538								
Norhydrocodone	286.2 -> 199...	8/21/2017 4:20 PM	4.880	137		55.05	286.2 -> 171...						Norhydrocodone-D3	289.2 -> 202...	4.940	54732								
Noroxycodone	302.1 -> 284...	8/21/2017 4:20 PM	4.898	587		2.64	302.1 -> 186...						Noroxycodone-D3	305.2 -> 287...	4.876	97712								
O-desmethyl-tramadol	250.2 -> 58.3	8/21/2017 4:20 PM	4.925	948		1.74	250.2 -> 42.3						O-desmethyl-tramadol-...	256.2 -> 64.3	4.905	680469								
Oxazepam	287.1 -> 240...	8/21/2017 4:20 PM	6.650	106		0.83	287.1 -> 268...						Oxazepam-D5	292.1 -> 246...	6.386	123713								
Oxycodone	316.2 -> 298...	8/21/2017 4:20 PM	4.855	210		0.36	316.2 -> 241...						Oxycodone-D6	322.2 -> 304...	4.895	184279								
Oxymorphone	302.1 -> 284...	8/21/2017 4:20 PM	4.173	368		0.80	302.1 -> 227...						Oxymorphone-D3	305.2 -> 287...	4.212	122913								
Phentermine	150.1 -> 65.2	8/21/2017 4:20 PM	5.479	765		0.32	150.1 -> 133...						Phentermine-D5	155.2 -> 96.2	5.113	402528								
Promethazine	285.1 -> 86.2	8/21/2017 4:20 PM					285.1 -> 71.3						Promethazine-D3	288.2 -> 89.2	6.264	15743...								
Quetiapine	384.2 -> 253...	8/21/2017 4:20 PM					384.2 -> 221...						Quetiapine-D8	392.2 -> 226...	6.213	268541								

Compound Method		p1 negative			p1 negative Results				Qualifier 1 M...		Qualifie...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.		
Sertraline	306.1 -> 158...	8/21/2017 4:20 PM					306.1 -> 275...			306.1 -> 275...			Sertraline-D3	309.1 -> 275...	6.485	374840		
Sufentanil	387.2 -> 238...	8/21/2017 4:20 PM					387.2 -> 111...			387.2 -> 238...			Sufentanil-D5	392.2 -> 238...	6.192	611998		
Temazepam	301.1 -> 255...	8/21/2017 4:20 PM	6.446	406		1.03	301.1 -> 283...			306.1 -> 260...			Temazepam-D5	306.1 -> 260...	6.506	381748		
Tramadol	264.2 -> 58.3	8/21/2017 4:20 PM	5.453	4711		5.91	264.2 -> 43.3			268.2 -> 58.3		0.72	Tramadol-13C-D3	268.2 -> 58.3	5.432	899450		
Trazodone	372.2 -> 176...	8/21/2017 4:20 PM	6.153	795		1.63	372.2 -> 148...			378.2 -> 182...		4.59	Trazodone-D6	378.2 -> 182...	6.133	721764		
Venlafaxine	278.2 -> 58.3	8/21/2017 4:20 PM	5.737	2781		7.96	278.2 -> 260...			284.2 -> 64.3		0.90	Venlafaxine-D6	284.2 -> 64.3	5.797	860661		
Zolpidem	308.2 -> 235...	8/21/2017 4:20 PM					308.2 -> 263...						Zolpidem-D6	314.2 -> 235...	5.914	709601		

Compound Method			p1 external control			p1 external control Results			Qualifier 1 M...			Qualifier 1 R...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	8/21/2017 4:40 PM					328.2 -> 211...						6-MAM-D6	334.2 -> 165...	4.914	34849			
7-aminoclonazepam	286.1 -> 121...	8/21/2017 4:40 PM					286.1 -> 222...						7-Aminoclonazepam-D4	290.1 -> 121...	5.550	112224			
Acetyl Fentanyl	323.2 -> 105...	8/21/2017 4:40 PM					323.2 -> 188...						Acetyl Fentanyl-D5	328.2 -> 105...	5.768	899688			
Acetyl Norfentanyl	219.1 -> 84.2	8/21/2017 4:40 PM					219.1 -> 56.3						Acetyl Norfentanyl-D5	224.2 -> 84.2	4.868	341561			
a-hydroxyalprazolam	325.1 -> 297...	8/21/2017 4:40 PM					325.1 -> 215...						a-hydroxyalprazolam-D5	330.1 -> 302...	6.378	27805			
alpha-PVP	232.2 -> 91.0	8/21/2017 4:40 PM					232.2 -> 77.1						alpha-PVP-d8	240.2 -> 91.1	5.516	391113			
Alprazolam	309.1 -> 281...	8/21/2017 4:40 PM	6.342	2758		6.14	309.1 -> 205...						Alprazolam-D5	314.1 -> 286...	6.464	190624			
Amphetamine	136.1 -> 91.1	8/21/2017 4:40 PM	4.972	36912		31.08	136.1 -> 119...						Amphetamine-D11	147.2 -> 130...	4.769	131930			
Bupropion	240.1 -> 184...	8/21/2017 4:40 PM					240.1 -> 131...						Bupropion-D9	249.2 -> 185...	5.720	402752			
Carisoprodol	261.2 -> 176...	8/21/2017 4:40 PM					261.2 -> 55.3						Carisoprodol-D7	268.2 -> 183...	6.126	327070			
Citalopram	325.2 -> 109...	8/21/2017 4:40 PM					325.2 -> 262...						Citalopram-D6	331.2 -> 109...	6.032	682864			
Clonazepam	316.1 -> 269...	8/21/2017 4:40 PM					316.1 -> 213...						Clonazepam-D4	320.1 -> 217...	6.320	25433			
Codeine	300.2 -> 215...	8/21/2017 4:40 PM	4.798	64043		279.41	300.2 -> 165...				155.40		Codeine-D6	306.2 -> 218...	4.755	25424			
Cyclobenzaprine	276.2 -> 214...	8/21/2017 4:40 PM					276.2 -> 231...						Cyclobenzaprine-D3	279.2 -> 215...	6.287	392119			
Dextromethorphan	272.2 -> 171...	8/21/2017 4:40 PM					272.2 -> 147...						Dextromethorphan-D3	275.2 -> 171...	6.063	178970			
Dextropropriphan	258.2 -> 157...	8/21/2017 4:40 PM					258.2 -> 133...						Dextropropriphan-D3	261.2 -> 157...	5.412	180273			
Diazepam	285.1 -> 193...	8/21/2017 4:40 PM					285.1 -> 153...						Diazepam-D5	290.1 -> 198...	6.690	164273			
Dihydrocodeine	302.2 -> 198...	8/21/2017 4:40 PM	4.796	195		1.75	302.2 -> 128...					7.18	Dihydrocodeine-D6	308.2 -> 202...	4.714	90428			
Diphenhydramine	256.2 -> 167...	8/21/2017 4:40 PM	6.005	21315...		763.07	256.2 -> 152...					1167.49	Diphenhydramine-D3	259.2 -> 167...	6.005	975902			
Doxylamine	271.2 -> 182...	8/21/2017 4:40 PM					271.2 -> 167...						Doxylamine-D5	276.2 -> 187...	5.656	852014			
EDDP	279.2 -> 235...	8/21/2017 4:40 PM					279.2 -> 250...						EDDP-D3	282.2 -> 235...	6.061	47270			
Fentanyl	337.2 -> 105...	8/21/2017 4:40 PM					337.2 -> 188...						Fentanyl-D5	342.3 -> 105...	5.971	807440			
Fluoxetine	310.1 -> 44.3	8/21/2017 4:40 PM					310.1 -> 148...						Oxycodone-D6	322.2 -> 304...	4.895	163305			
Hydrocodone	300.2 -> 198...	8/21/2017 4:40 PM	4.777	37709		140.83	300.2 -> 128...				176.60		Hydrocodone-D6	306.2 -> 202...	4.998	139020			
Hydromorphone	286.2 -> 184...	8/21/2017 4:40 PM	4.136	34413		601.94	286.2 -> 157...					11204...	Hydromorphone-D6	292.2 -> 185...	4.397	46780			
Ketamine	238.1 -> 125...	8/21/2017 4:40 PM					238.1 -> 220...						Ketamine-D4	242.1 -> 129...	5.374	210579			
Meprobamate	219.1 -> 158...	8/21/2017 4:40 PM	5.702	930		Infinity	219.1 -> 97.1						Meprobamate-D7	226.2 -> 165...	5.641	61980			
Methadone	310.2 -> 265...	8/21/2017 4:40 PM	6.706	2067		3.01	310.2 -> 105...						Methadone-D9	319.3 -> 268...	6.320	907343			
Methamphetamine	150.1 -> 91.1	8/21/2017 4:40 PM	4.991	31285		1.91	150.1 -> 119...						Methamphetamine-D11	161.2 -> 97.1	4.950	353165			
Morphine	286.2 -> 201...	8/21/2017 4:40 PM	4.136	64525		273.59	286.2 -> 165...					232.23	Morphine-D6	292.2 -> 152...	4.095	2981			
Naloxone	328.2 -> 309...	8/21/2017 4:40 PM	4.975	75		1.68	328.2 -> 211...						Naloxone-D5	333.2 -> 315...	4.732	111988			
Naltrexol	344.2 -> 326...	8/21/2017 4:40 PM	4.852	3809		24.41	344.2 -> 308...				1.25		Naltrexol-D3	347.2 -> 329...	4.912	253519			
Naltrexone	342.2 -> 324...	8/21/2017 4:40 PM	4.832	142		0.92	342.2 -> 55.3				0.86		Naltrexone-D3	345.2 -> 327...	4.852	146121			
Norbuprenorphine	414.3 -> 101...	8/21/2017 4:40 PM	6.050	50		7.00	414.3 -> 57.3						Norbuprenorphine-D3	417.3 -> 101...	5.806	26781			
Nordiazepam	271.1 -> 140...	8/21/2017 4:40 PM					271.1 -> 208...						Nordiazepam-D5	276.1 -> 140...	6.552	73018			
Norfentanyl	233.2 -> 84.2	8/21/2017 4:40 PM					233.2 -> 55.3						Norfentanyl-D5	282.2 -> 84.2	5.333	501503			
Norhydrocodone	286.2 -> 199...	8/21/2017 4:40 PM	4.901	421		17.52	286.2 -> 171...						Norhydrocodone-D3	289.2 -> 202...	4.940	48237			
Noroxycodone	302.1 -> 284...	8/21/2017 4:40 PM	4.917	1161		1.19	302.1 -> 186...				0.91		Noroxycodone-D3	305.2 -> 287...	4.876	86420			
O-desmethyl-tramadol	250.2 -> 58.3	8/21/2017 4:40 PM	4.925	920		3.37	250.2 -> 42.3				270.98		O-desmethyl-tramadol-...	256.2 -> 64.3	4.905	593585			
Oxazepam	287.1 -> 240...	8/21/2017 4:40 PM	6.366	52		0.52	287.1 -> 268...				5.21		Oxazepam-D5	292.1 -> 246...	6.386	95866			
Oxycodone	316.2 -> 298...	8/21/2017 4:40 PM	4.814	311		1.57	316.2 -> 241...				0.72		Oxycodone-D6	322.2 -> 304...	4.895	163305			
Oxymorphone	302.1 -> 284...	8/21/2017 4:40 PM	4.253	191		0.55	302.1 -> 227...						Oxymorphone-D3	305.2 -> 287...	4.212	107966			
Phentermine	150.1 -> 65.2	8/21/2017 4:40 PM					150.1 -> 133...						Phentermine-D5	155.2 -> 96.2	5.113	342180			
Promethazine	285.1 -> 86.2	8/21/2017 4:40 PM					285.1 -> 71.3						Promethazine-D3	288.2 -> 89.2	6.264	14918...			
Quetiapine	384.2 -> 253...	8/21/2017 4:40 PM					384.2 -> 221...						Quetiapine-D8	392.2 -> 226...	6.213	244765			

Compound Method		p1 external control			p1 external control Results			Qualifier 1 M...		Qualifier 1 R...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
Sertraline	306.1 -> 158...	8/21/2017 4:40 PM					306.1 -> 275...			Sertraline-D3	309.1 -> 275...	6.485	337359			
Sufentanil	387.2 -> 238...	8/21/2017 4:40 PM					387.2 -> 111...			Sufentanil-D5	392.2 -> 238...	6.213	566455			
Temazepam	301.1 -> 255...	8/21/2017 4:40 PM	6.426	517		0.87	301.1 -> 283...			Temazepam-D5	306.1 -> 260...	6.527	329104			
Tramadol	264.2 -> 58.3	8/21/2017 4:40 PM	5.453	4073		5.38	264.2 -> 43.3		0.66	Tramadol-13C-D3	268.2 -> 58.3	5.432	802420			
Trazodone	372.2 -> 176...	8/21/2017 4:40 PM	6.133	352		1.94	372.2 -> 148...		0.81	Trazodone-D6	378.2 -> 182...	6.133	645862			
Venlafaxine	278.2 -> 58.3	8/21/2017 4:40 PM	5.757	1397		10.81	278.2 -> 260...		0.22	Venlafaxine-D6	284.2 -> 64.3	5.797	743752			
Zolpidem	308.2 -> 235...	8/21/2017 4:40 PM					308.2 -> 263...			Zolpidem-D6	314.2 -> 235...	5.914	631912			

Compound Method			p2 cal 1-1b				p2 cal 1-1b Results				Qualifier 1 M...			Qualifier 1 R...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	MI	S/N	Name	Transition	RT	Resp.			
7-aminoflunitrazepam	284.1 -> 135...	8/21/2017 4:01 PM	5.742	28374	9903.10	284.1 -> 93.2	2066.47	7-aminoflunitrazepam-D7	291.2 -> 138...	1483											
alpha-hydroxymidazolam	342.1 -> 324...	8/21/2017 4:01 PM	6.448	48050	181.33	342.1 -> 203...	66.97	alpha-hydroxymidazolam-...	346.1 -> 328...	2657											
Amisriptyline	278.2 -> 91.2	8/21/2017 4:01 PM	6.356	121818	Infinity	278.2 -> 105...	Infinity	Amisriptyline-D3	281.2 -> 91.2	2460											
Amoxapine	314.1 -> 271...	8/21/2017 4:01 PM	6.329	41183	100.48	314.1 -> 193...	171.05	Amisriptyline-D3	281.2 -> 91.2	2460											
Benzoylcocaine	290.1 -> 168...	8/21/2017 4:01 PM	5.373	14931	117.53	290.1 -> 105...	6273.79	Benzoylcocaine-D8	298.2 -> 171...	57											
Carbamazepine	237.1 -> 193...	8/21/2017 4:01 PM	6.137	13424	Infinity	237.1 -> 194...	53.10	Carbamazepine-13C6	243.1 -> 200...	6755											
Chlordiazepoxide	300.1 -> 227...	8/21/2017 4:01 PM	6.555	20641	4198.35	300.1 -> 282...	Infinity	Chlordiazepoxide-D5	305.1 -> 286...	1540											
Clomipramine	315.2 -> 86.2	8/21/2017 4:01 PM	6.532	192900	1578.46	315.2 -> 58.3	149.56	Clomipramine-D3	318.2 -> 89.2	9670											
Cocaine	304.2 -> 182...	8/21/2017 4:01 PM	5.595	87419	Infinity	304.2 -> 105...	345.09	Cocaine-D3	307.2 -> 185...	3863											
Desipramine	267.2 -> 72.3	8/21/2017 4:01 PM	6.316	145885	Infinity	267.2 -> 44.3	148.68	Desipramine-D3	270.2 -> 75.3	6757											
Doxepin	280.2 -> 107...	8/21/2017 4:01 PM	6.110	65355	Infinity	280.2 -> 77.2	14.77	Doxepin-D3	283.2 -> 107...	3093											
Estazolam	295.1 -> 267...	8/21/2017 4:01 PM	6.414	36614	42.31	295.1 -> 205...	210.35	Estazolam-D5	300.1 -> 272...	1697											
Flunitrazepam	314.1 -> 268...	8/21/2017 4:01 PM	6.431	36463	244.26	314.1 -> 239...	60.37	Flunitrazepam-D7	321.1 -> 245...	60											
Flurazepam	388.2 -> 315...	8/21/2017 4:01 PM	6.080	80991	Infinity	388.2 -> 317...	32.37	Zopiclone-D4	393.1 -> 244...	811											
Imipramine	281.2 -> 86.2	8/21/2017 4:01 PM	6.334	210926	23558.79	281.2 -> 58.3	Infinity	Imipramine-D3	284.2 -> 61.3	5394											
Levamisole	205.1 -> 91.2	8/21/2017 4:01 PM	4.960	25771	25.47	205.1 -> 178...	Infinity	Cocaine-D3	307.2 -> 185...	3863											
Meprotiline	278.2 -> 91.2	8/21/2017 4:01 PM	6.050	41975	Infinity	278.2 -> 117...	Infinity	Meperidine-D4	252.2 -> 224...	1559											
MDA	180.1 -> 163...	8/21/2017 4:01 PM	4.983	29705	Infinity	180.1 -> 105...	Infinity	MDA-D5	185.1 -> 168...	1643											
MDEA	208.1 -> 163...	8/21/2017 4:01 PM	5.262	54213	Infinity	208.1 -> 105...	68.78	MDEA-D6	214.2 -> 166...	2754											
MDMA	194.1 -> 163...	8/21/2017 4:01 PM	5.103	52571	122.22	194.1 -> 105...	Infinity	MDMA-D6	200.2 -> 166...	282											
Meperidine	248.2 -> 220...	8/21/2017 4:01 PM	5.605	29113	6971.13	248.2 -> 174...	59.62	Meperidine-D4	252.2 -> 224...	1559											
Methyphenidate	234.2 -> 84.2	8/21/2017 4:01 PM	5.525	147950	Infinity	234.2 -> 56.3	230.97	Meperidine-D4	252.2 -> 224...	1559											
Metoprolol	268.2 -> 116...	8/21/2017 4:01 PM	5.459	17778	250.99	268.2 -> 56.3	54.92	Meperidine-D4	252.2 -> 224...	1559											
Midazolam	326.1 -> 223...	8/21/2017 4:01 PM	6.511	16297	79.27	326.1 -> 249...	85.50	Midazolam-D4	330.1 -> 295...	2539											
Mirtazapine	266.2 -> 195...	8/21/2017 4:01 PM	5.745	75862	Infinity	266.2 -> 72.3	391.03	Midazolam-D4	330.1 -> 295...	2539											
Mitragynine	399.2 -> 174...	8/21/2017 4:01 PM	6.099	31242	267.78	399.2 -> 238...	93.99	Carbamazepine-13C6	243.1 -> 200...	6755											
Normeperidine	234.1 -> 42.3	8/21/2017 4:01 PM	5.628	42078	Infinity	234.1 -> 160...	14084...	Normeperidine-D4	238.2 -> 164...	1546											
Norpropoxyphene	326.2 -> 44.3	8/21/2017 4:01 PM	6.205	29203	6113.95	326.2 -> 252...	2124.79	Norpropoxyphene-D5	331.2 -> 44.3	1158											
Nortriptyline	264.2 -> 91.2	8/21/2017 4:01 PM	6.277	207725	63752.23	264.2 -> 233...	57375...	Nortriptyline-D3	267.2 -> 233...	2591											
Ondansetron	294.2 -> 184...	8/21/2017 4:01 PM	5.761	40942	148.30	294.2 -> 212...	10187...	Pentazocine-13C3	289.2 -> 72.3	2396											
Pentazocine	286.2 -> 218...	8/21/2017 4:01 PM	5.679	59667	496.25	286.2 -> 41.3	Infinity	Pentazocine-13C3	289.2 -> 72.3	2396											
Phenazepam	349.0 -> 206...	8/21/2017 4:01 PM	6.508	40206	300.38	349.0 -> 183...	5954.86	Phenazepam-D4	353.0 -> 183...	127											
Phencyclidine	244.2 -> 86.2	8/21/2017 4:01 PM	5.912	113191	Infinity	244.2 -> 91.1	141.84	Phencyclidine-D5	249.2 -> 86.2	5104											
Phenylephrine	253.1 -> 104...	8/21/2017 4:01 PM	6.053	19176	7.06	253.1 -> 182...	262.34	Phenylephrine-D10	263.2 -> 192...	97											
Praxeapam	325.1 -> 271...	8/21/2017 4:01 PM	6.937	152670	472.17	325.1 -> 140...	68.88	Praxeapam-D5	330.1 -> 276...	6553											
Primidone	219.1 -> 91.2	8/21/2017 4:01 PM	5.446	4586	6.47	219.1 -> 162...	13.22	Praxeapam-D5	330.1 -> 276...	6553											
Propoxyphene	340.2 -> 58.3	8/21/2017 4:01 PM	6.204	144955	393.68	340.2 -> 266...	313.09	Propoxyphene-D11	351.3 -> 277...	1721											
Proprietyline	264.2 -> 155...	8/21/2017 4:01 PM	6.277	355520	77765.70	264.2 -> 161...	Infinity	Nortriptyline-D3	267.2 -> 233...	2591											
Pseudoephedrine	166.1 -> 148...	8/21/2017 4:01 PM	4.620	676030	354.27	166.1 -> 133...	131.80	Pseudoephedrine-D3	169.1 -> 151...	3137											
Tapentadol	222.2 -> 107...	8/21/2017 4:01 PM	5.465	81668	Infinity	222.2 -> 121...	93.81	Tapentadol-D3	225.2 -> 107...	4115											
Trimipramine	295.2 -> 100...	8/21/2017 4:01 PM	6.393	224956	1110.42	295.2 -> 58.3	47.94	Trimipramine-D3	298.2 -> 103...	1146											
Verapamil	455.3 -> 165...	8/21/2017 4:01 PM	6.160	102242	45865.75	455.3 -> 150...	57.80	Trimipramine-D3	298.2 -> 103...	1146											
Zaleplon	306.1 -> 236...	8/21/2017 4:01 PM	6.248	30989	124.50	306.1 -> 264...	2972.45	Zaleplon-D4	310.2 -> 240...	1206											
Zopiclone	389.1 -> 244...	8/21/2017 4:01 PM	5.836	18094	117.81	389.1 -> 216...	32.55	Zopiclone-D4	393.1 -> 244...	811											

Compound Method			p2 negative			p2 negative Results			Qualifier 1 M...			Qualifier...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
7-aminoflunitrazepam	284.1 -> 135...	8/21/2017 4:30 PM					284.1 -> 93.2			284.1 -> 93.2			7-aminoflunitrazepam-D7	291.2 -> 138...	5.740	214636			
alpha-hydroxymidazolam	342.1 -> 324...	8/21/2017 4:30 PM					342.1 -> 203...			342.1 -> 203...			alpha-hydroxymidazolam...	346.1 -> 328...	6.427	362798			
Amiripityline	278.2 -> 91.2	8/21/2017 4:30 PM	6.539	2725		1.11	278.2 -> 105...			278.2 -> 105...			Amiripityline-D3	281.2 -> 91.2	6.355	373269			
Amoxapine	314.1 -> 271...	8/21/2017 4:30 PM					314.1 -> 193...			314.1 -> 193...			Amiripityline-D3	281.2 -> 91.2	6.355	373269			
Benzoylcegonine	290.1 -> 168...	8/21/2017 4:30 PM					290.1 -> 105...			290.1 -> 105...			Benzoylcegonine-D8	298.2 -> 171...	5.350	6410			
Carbamazepine	337.1 -> 193...	8/21/2017 4:30 PM					337.1 -> 194...			337.1 -> 194...			Carbamazepine-13C6	243.1 -> 200...	6.136	997765			
Chlordiazepoxide	300.1 -> 227...	8/21/2017 4:30 PM					300.1 -> 282...			300.1 -> 282...			Chlordiazepoxide-D5	305.1 -> 286...	6.555	238010			
Clomipramine	315.2 -> 86.2	8/21/2017 4:30 PM					315.2 -> 58.3			315.2 -> 58.3			Clomipramine-D3	318.2 -> 89.2	6.532	14467...			
Cocaine	304.2 -> 182...	8/21/2017 4:30 PM					304.2 -> 105...			304.2 -> 105...			Cocaine-D3	307.2 -> 185...	5.594	570741			
Desipramine	267.2 -> 72.3	8/21/2017 4:30 PM	6.316	2008		3.99	267.2 -> 44.3			267.2 -> 44.3			Desipramine-D3	270.2 -> 75.3	6.316	10974...			
Doxepin	280.2 -> 107...	8/21/2017 4:30 PM					280.2 -> 77.2			280.2 -> 77.2			Doxepin-D3	283.2 -> 107...	6.110	471467			
Estazolam	295.1 -> 267...	8/21/2017 4:30 PM					295.1 -> 205...			295.1 -> 205...			Estazolam-D5	300.1 -> 272...	6.392	254463			
Flunitrazepam	314.1 -> 268...	8/21/2017 4:30 PM					314.1 -> 239...			314.1 -> 239...			Flunitrazepam-D7	321.1 -> 245...	6.430	8671			
Flurazepam	388.2 -> 315...	8/21/2017 4:30 PM					388.2 -> 317...			388.2 -> 317...			Zopiclone-D4	393.1 -> 244...	5.836	101245			
Imipramine	281.2 -> 86.2	8/21/2017 4:30 PM	6.376	2307		17.06	281.2 -> 58.3			281.2 -> 58.3			Imipramine-D3	284.2 -> 61.3	6.314	819322			
Levamisole	205.1 -> 91.2	8/21/2017 4:30 PM					205.1 -> 178...			205.1 -> 178...			Cocaine-D3	307.2 -> 185...	5.594	570741			
Maprotiline	278.2 -> 91.2	8/21/2017 4:30 PM					278.2 -> 117...			278.2 -> 117...			Meperidine-D4	252.2 -> 224...	5.604	237656			
MDA	180.1 -> 163...	8/21/2017 4:30 PM					180.1 -> 105...			180.1 -> 105...			MDA-D5	185.1 -> 168...	4.963	237109			
MDEA	208.1 -> 163...	8/21/2017 4:30 PM					208.1 -> 105...			208.1 -> 105...			MDEA-D6	214.2 -> 166...	5.242	416556			
MDMA	194.1 -> 163...	8/21/2017 4:30 PM					194.1 -> 105...			194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.082	42247			
Meperidine	248.2 -> 220...	8/21/2017 4:30 PM					248.2 -> 174...			248.2 -> 174...			Meperidine-D4	252.2 -> 224...	5.604	237656			
Methylphenidate	234.2 -> 84.2	8/21/2017 4:30 PM					234.2 -> 56.3			234.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.604	237656			
Metoprolol	268.2 -> 116...	8/21/2017 4:30 PM					268.2 -> 56.3			268.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.604	237656			
Midazolam	326.1 -> 223...	8/21/2017 4:30 PM					326.1 -> 249...			326.1 -> 249...			Midazolam-D4	330.1 -> 295...	6.510	369939			
Mirtazapine	266.2 -> 195...	8/21/2017 4:30 PM					266.2 -> 72.3			266.2 -> 72.3			Midazolam-D4	330.1 -> 295...	6.510	369939			
Mitragynine	399.2 -> 174...	8/21/2017 4:30 PM					399.2 -> 238...			399.2 -> 238...			Carbamazepine-13C6	243.1 -> 200...	6.136	997765			
Normeperidine	234.1 -> 42.3	8/21/2017 4:30 PM					234.1 -> 160...			234.1 -> 160...			Normeperidine-D4	238.2 -> 164...	5.606	229637			
Norpropoxyphene	326.2 -> 44.3	8/21/2017 4:30 PM					326.2 -> 252...			326.2 -> 252...			Norpropoxyphene-D5	331.2 -> 44.3	6.204	177577			
Nortriptyline	264.2 -> 91.2	8/21/2017 4:30 PM	6.562	2635		4.40	264.2 -> 233...			264.2 -> 233...			Nortriptyline-D3	267.2 -> 233...	6.337	396181			
Ondansetron	294.2 -> 184...	8/21/2017 4:30 PM					294.2 -> 212...			294.2 -> 212...			Pentazocine-13C3	289.2 -> 72.3	5.679	385357			
Pentazocine	286.2 -> 218...	8/21/2017 4:30 PM					286.2 -> 41.3			286.2 -> 41.3			Pentazocine-13C3	289.2 -> 72.3	5.679	385357			
Phenazepam	349.0 -> 206...	8/21/2017 4:30 PM					349.0 -> 183...			349.0 -> 183...			Phenazepam-D4	353.0 -> 183...	6.487	19491			
Phencyclidine	244.2 -> 86.2	8/21/2017 4:30 PM					244.2 -> 91.1			244.2 -> 91.1			Phencyclidine-D5	249.2 -> 86.2	5.891	694673			
Phenytol	253.1 -> 104...	8/21/2017 4:30 PM					253.1 -> 182...			253.1 -> 182...			Phenytol-D10	263.2 -> 192...	6.053	10210			
Praxepam	325.1 -> 271...	8/21/2017 4:30 PM					325.1 -> 140...			325.1 -> 140...			Praxepam-D5	330.1 -> 276...	6.935	931740			
Primidone	219.1 -> 91.2	8/21/2017 4:30 PM					219.1 -> 162...			219.1 -> 162...			Praxepam-D5	330.1 -> 276...	6.935	931740			
Propoxyphene	340.2 -> 58.3	8/21/2017 4:30 PM					340.2 -> 266...			340.2 -> 266...			Propoxyphene-D11	351.3 -> 277...	6.202	249331			
Protriptyline	264.2 -> 155...	8/21/2017 4:30 PM					264.2 -> 161...			264.2 -> 161...			Nortriptyline-D3	267.2 -> 233...	6.337	396181			
Pseudoephedrine	166.1 -> 148...	8/21/2017 4:30 PM					166.1 -> 133...			166.1 -> 133...			Pseudoephedrine-D3	169.1 -> 151...	4.599	442947			
Tapentadol	222.2 -> 107...	8/21/2017 4:30 PM					222.2 -> 121...			222.2 -> 121...			Tapentadol-D3	225.2 -> 107...	5.465	621350			
Trimipramine	295.2 -> 100...	8/21/2017 4:30 PM					295.2 -> 58.3			295.2 -> 58.3			Trimipramine-D3	298.2 -> 103...	6.393	16654...			
Verapamil	455.3 -> 165...	8/21/2017 4:30 PM					455.3 -> 150...			455.3 -> 150...			Trimipramine-D3	298.2 -> 103...	6.393	16654...			
Zaleplon	306.1 -> 236...	8/21/2017 4:30 PM					306.1 -> 264...			306.1 -> 264...			Zaleplon-D4	310.2 -> 240...	6.227	185767			
Zopiclone	389.1 -> 244...	8/21/2017 4:30 PM					389.1 -> 216...			389.1 -> 216...			Zopiclone-D4	393.1 -> 244...	5.836	101245			

Compound Method			p2 external control			p2 external control Results			Qualifier 1 M...			Qualifier...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
7-aminoflunitrazepam	284.1 -> 135...	8/21/2017 4:49 PM					284.1 -> 93.2						7-aminoflunitrazepam-D7	291.2 -> 138...	5.740	191927			
alpha-hydroxymidazolam	342.1 -> 324...	8/21/2017 4:49 PM					342.1 -> 203...						alpha-hydroxymidazolam-	346.1 -> 328...	6.427	332926			
Amitriptyline	278.2 -> 91.2	8/21/2017 4:49 PM	6.356	12202...		297.73	278.2 -> 105...					Infini...	Amitriptyline-D3	281.2 -> 91.2	6.355	341035			
Amoxapine	314.1 -> 271...	8/21/2017 4:49 PM					314.1 -> 193...						Amitriptyline-D3	281.2 -> 91.2	6.355	341035			
Benzoyllecgonine	290.1 -> 168...	8/21/2017 4:49 PM					290.1 -> 105...						Benzoyllecgonine-D8	298.2 -> 171...	5.350	5278			
Carbamazepine	337.1 -> 193...	8/21/2017 4:49 PM					237.1 -> 194...						Carbamazepine-13C6	243.1 -> 200...	6.136	883229			
Chlordiazepoxide	300.1 -> 227...	8/21/2017 4:49 PM					300.1 -> 282...						Chlordiazepoxide-D5	305.1 -> 286...	6.555	210872			
Clomipramine	315.2 -> 86.2	8/21/2017 4:49 PM					315.2 -> 58.3						Clomipramine-D3	318.2 -> 89.2	6.532	13402...			
Cocaine	304.2 -> 182...	8/21/2017 4:49 PM					304.2 -> 105...						Cocaine-D3	307.2 -> 185...	5.594	465957			
Desipramine	267.2 -> 72.3	8/21/2017 4:49 PM					267.2 -> 44.3						Desipramine-D3	270.2 -> 75.3	6.316	940819			
Doxepin	280.2 -> 107...	8/21/2017 4:49 PM					280.2 -> 77.2						Doxepin-D3	283.2 -> 107...	6.110	443328			
Estazolam	295.1 -> 267...	8/21/2017 4:49 PM					295.1 -> 205...						Estazolam-D5	283.2 -> 107...	6.392	222746			
Flunitrazepam	314.1 -> 268...	8/21/2017 4:49 PM					314.1 -> 239...						Flunitrazepam-D7	300.1 -> 272...	6.410	7674			
Flurazepam	388.2 -> 315...	8/21/2017 4:49 PM					388.2 -> 317...						Zopiclone-D4	321.1 -> 245...	5.836	81657			
Imipramine	281.2 -> 86.2	8/21/2017 4:49 PM					281.2 -> 58.3						Imipramine-D3	284.2 -> 61.3	6.334	736602			
Levamisole	205.1 -> 91.2	8/21/2017 4:49 PM					205.1 -> 178...						Cocaine-D3	307.2 -> 185...	5.594	465957			
Maprotiline	278.2 -> 91.2	8/21/2017 4:49 PM					278.2 -> 117...						Meperidine-D4	252.2 -> 224...	5.604	212899			
MDA	180.1 -> 163...	8/21/2017 4:49 PM					180.1 -> 105...						MDA-D5	185.1 -> 168...	4.963	207322			
MDEA	208.1 -> 163...	8/21/2017 4:49 PM					208.1 -> 105...						MDEA-D6	214.2 -> 166...	5.242	374458			
MDMA	194.1 -> 163...	8/21/2017 4:49 PM					194.1 -> 105...						MDMA-D6	200.2 -> 166...	5.082	37257			
Meperidine	248.2 -> 220...	8/21/2017 4:49 PM					248.2 -> 174...						Meperidine-D4	252.2 -> 224...	5.604	212899			
Methyphenidate	234.2 -> 84.2	8/21/2017 4:49 PM					234.2 -> 56.3						Meperidine-D4	252.2 -> 224...	5.604	212899			
Metoprolol	268.2 -> 116...	8/21/2017 4:49 PM					268.2 -> 56.3						Meperidine-D4	252.2 -> 224...	5.604	212899			
Midazolam	326.1 -> 223...	8/21/2017 4:49 PM					326.1 -> 249...						Midazolam-D4	330.1 -> 295...	6.510	324976			
Mirtazapine	266.2 -> 195...	8/21/2017 4:49 PM	5.745	10344...		Infinity	266.2 -> 72.3					Infini...	Midazolam-D4	330.1 -> 295...	6.510	324976			
Mitragynine	399.2 -> 174...	8/21/2017 4:49 PM					399.2 -> 238...						Carbamazepine-13C6	243.1 -> 200...	6.136	883229			
Normeperidine	234.1 -> 42.3	8/21/2017 4:49 PM					234.1 -> 160...						Normeperidine-D4	238.2 -> 164...	5.606	203976			
Norpropoxyphene	326.2 -> 44.3	8/21/2017 4:49 PM					326.2 -> 252...						Norpropoxyphene-D5	331.2 -> 44.3	6.204	145227			
Nortriptyline	264.2 -> 91.2	8/21/2017 4:49 PM	6.542	2627		Infinity	264.2 -> 233...						Nortriptyline-D3	267.2 -> 233...	6.337	343125			
Ondansetron	294.2 -> 184...	8/21/2017 4:49 PM					294.2 -> 212...						Pentazocine-13C3	289.2 -> 72.3	5.679	345435			
Pentazocine	286.2 -> 218...	8/21/2017 4:49 PM					286.2 -> 41.3						Pentazocine-13C3	289.2 -> 72.3	5.679	345435			
Phenazepam	349.0 -> 206...	8/21/2017 4:49 PM					349.0 -> 183...						Phenazepam-D4	353.0 -> 183...	6.487	18430			
Phencyclidine	244.2 -> 86.2	8/21/2017 4:49 PM					244.2 -> 91.1						Phencyclidine-D5	249.2 -> 86.2	5.891	648081			
Phenytol	253.1 -> 104...	8/21/2017 4:49 PM					253.1 -> 182...						Phenytol-D10	249.2 -> 86.2	5.891	648081			
Praxapam	325.1 -> 271...	8/21/2017 4:49 PM					325.1 -> 140...						Praxapam-D5	330.1 -> 276...	6.935	838586			
Primidone	219.1 -> 91.2	8/21/2017 4:49 PM					219.1 -> 162...						Praxapam-D5	330.1 -> 276...	6.935	838586			
Propoxyphene	340.2 -> 58.3	8/21/2017 4:49 PM					340.2 -> 266...						Propoxyphene-D11	351.3 -> 277...	6.202	225367			
Proprietyline	264.2 -> 155...	8/21/2017 4:49 PM					264.2 -> 161...						Nortriptyline-D3	267.2 -> 233...	6.337	343125			
Pseudoephedrine	166.1 -> 148...	8/21/2017 4:49 PM					166.1 -> 133...						Pseudoephedrine-D3	169.1 -> 151...	4.599	375435			
Tapentadol	222.2 -> 107...	8/21/2017 4:49 PM					222.2 -> 121...						Tapentadol-D3	225.2 -> 107...	5.465	544101			
Trimipramine	295.2 -> 100...	8/21/2017 4:49 PM					295.2 -> 58.3						Trimipramine-D3	298.2 -> 103...	6.393	15460...			
Verapamil	455.3 -> 165...	8/21/2017 4:49 PM					455.3 -> 150...						Trimipramine-D3	298.2 -> 103...	6.393	15460...			
Zaleplon	306.1 -> 236...	8/21/2017 4:49 PM					306.1 -> 264...						Zaleplon-D4	310.2 -> 240...	6.247	169770			
Zopiclone	389.1 -> 244...	8/21/2017 4:49 PM					389.1 -> 216...						Zopiclone-D4	393.1 -> 244...	5.836	81657			

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

Extraction Date: 8-21-17 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** • **0.1% Formic Acid in water**
 - Mobile Phase B: **0.1% FA in MeOH** • **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: 82117 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 (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: 82117 cann screen
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:

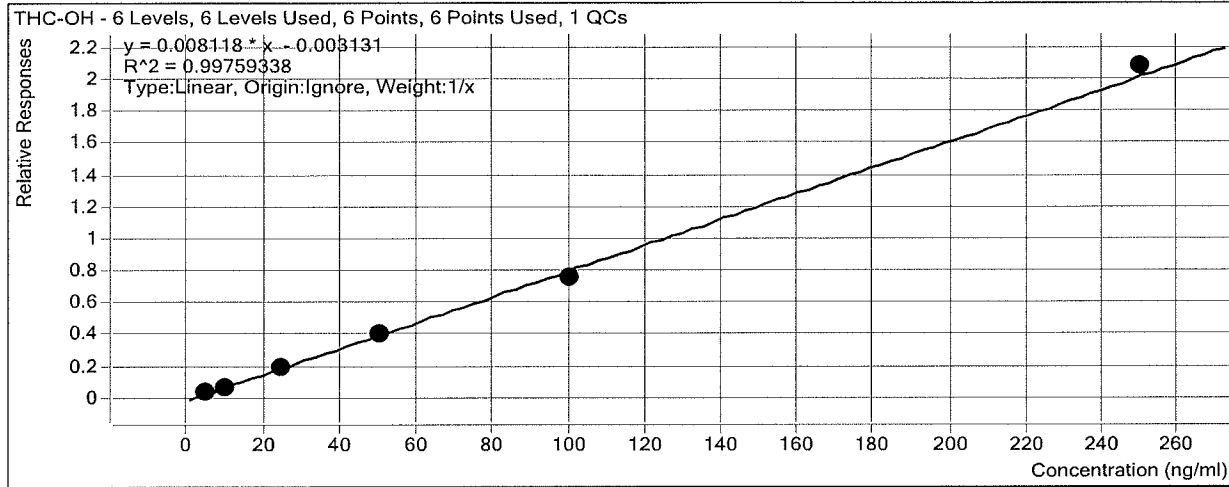


ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin

Last Calib Update 8/21/2017 3:39 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	5.8	115.8
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	8.8	88.0
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.1	100.9
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.0	99.9
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	49.9	99.8
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	93.8	93.8
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	256.7	102.7

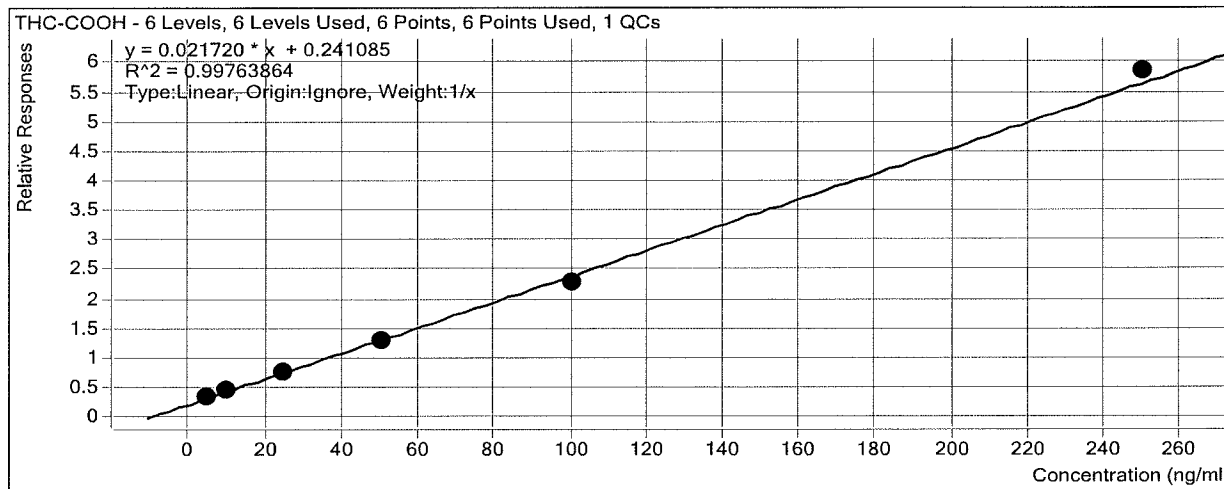
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin

Last Calib Update 8/21/2017 3:39 PM **Analyst Name** ISP TOX

Target Compound *THC-COOH*

Internal Standard *THC-COOH-d9*



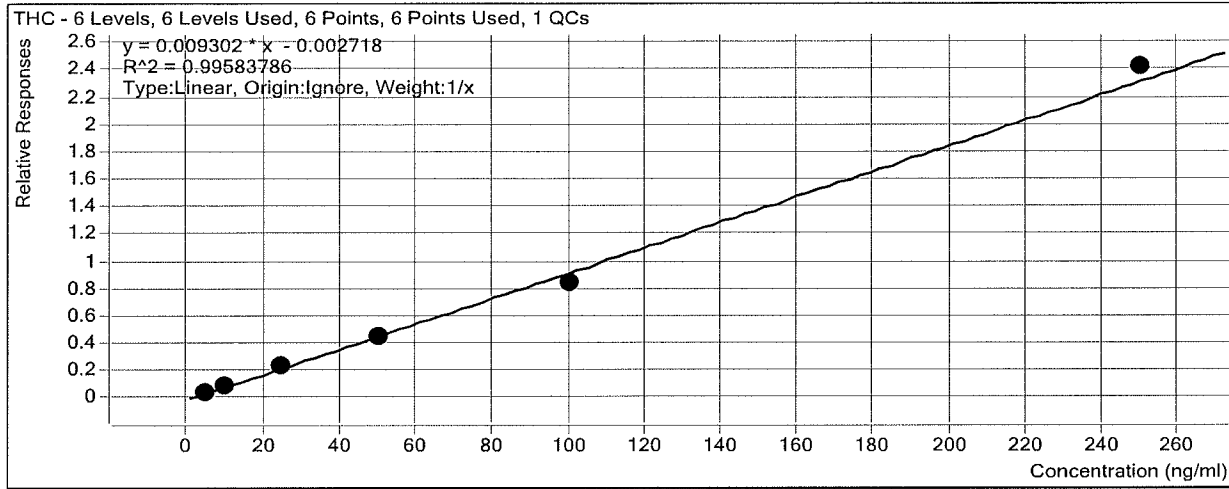
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2 - 5ng	2	<input checked="" type="checkbox"/>	5	5.5	109.6
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.8	98.3
QC 10 ng	3	<input checked="" type="checkbox"/>	10	12.5	125.4
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.7	99.0
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	48.2	96.4
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	93.5	93.5
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	258.3	103.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin

Last Calib Update 8/21/2017 3:39 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	5.4	108.4
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.7	96.9
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.3	102.9
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.8	103.3
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	48.4	96.8
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	90.5	90.5
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	260.1	104.1

ISP FORENSICS - Cd'A

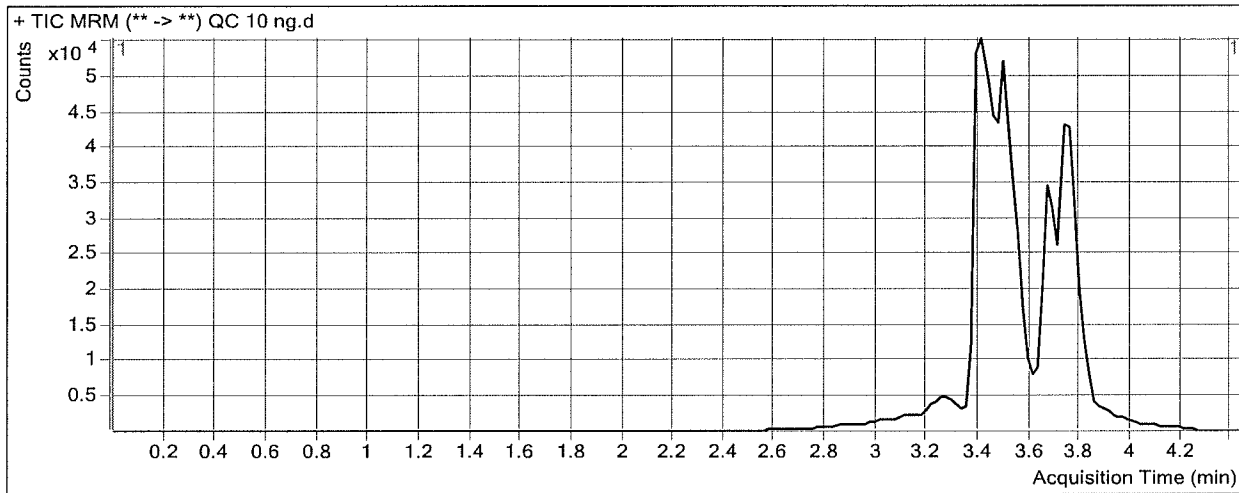
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 12:36 **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	3.412	20214	256537	0.0788	10.0913
THC-COOH	3.546	63901	124433	0.5135	12.5440
THC	3.740	6247	67189	0.0930	10.2881

ISP FORENSICS - Cd'A

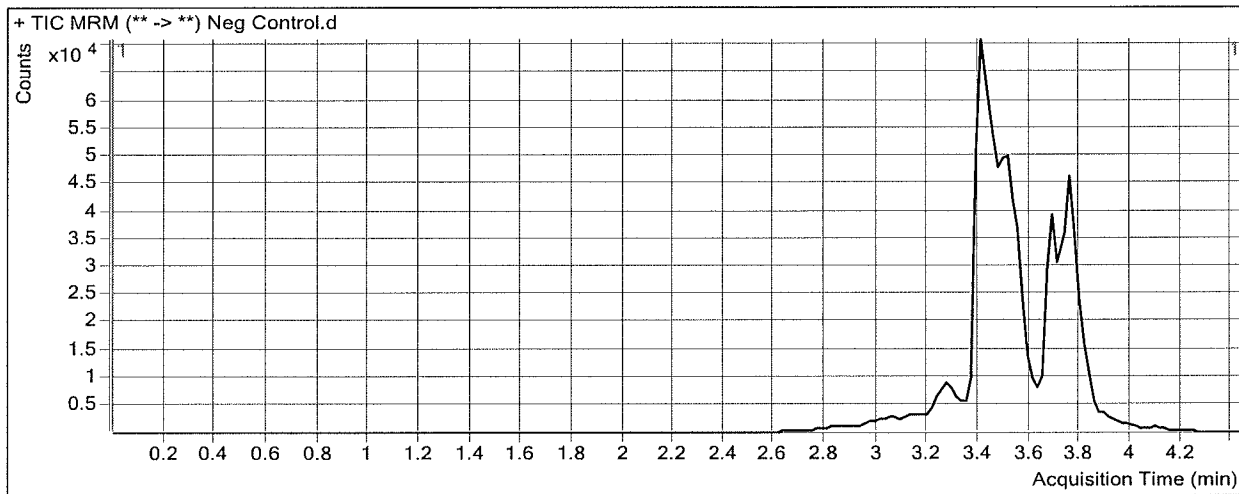
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 12:16 **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 32632-1

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.566	39111	157505	0.2483	0.3328

ISP FORENSICS - Cd'A

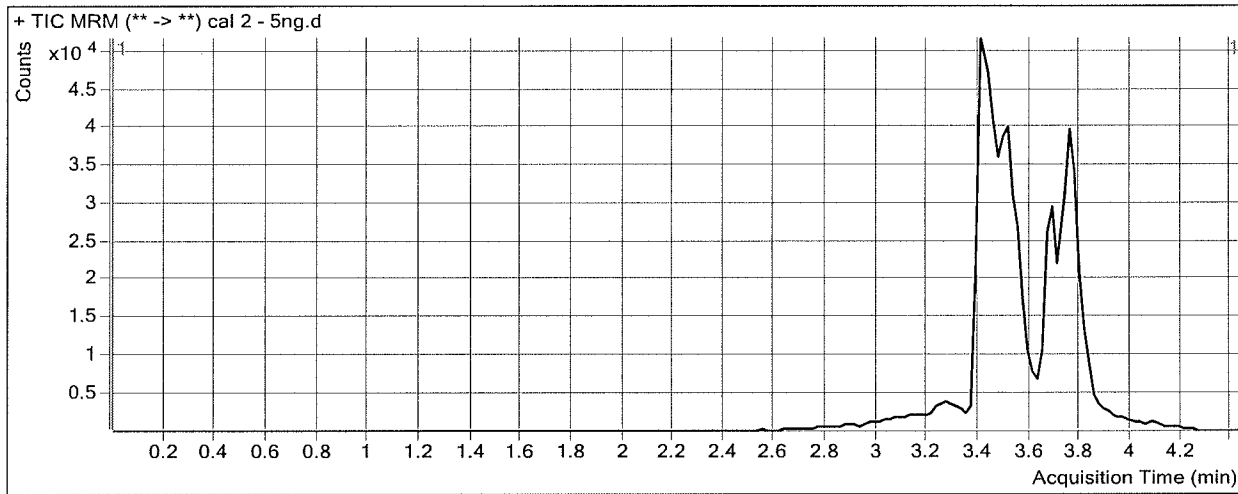
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 11:43 **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	3.433	10084	229858	0.0439	5.7896
THC-COOH	3.566	40732	113127	0.3601	5.4776
THC	3.760	3419	71669	0.0477	5.4213

ISP FORENSICS - Cd'A

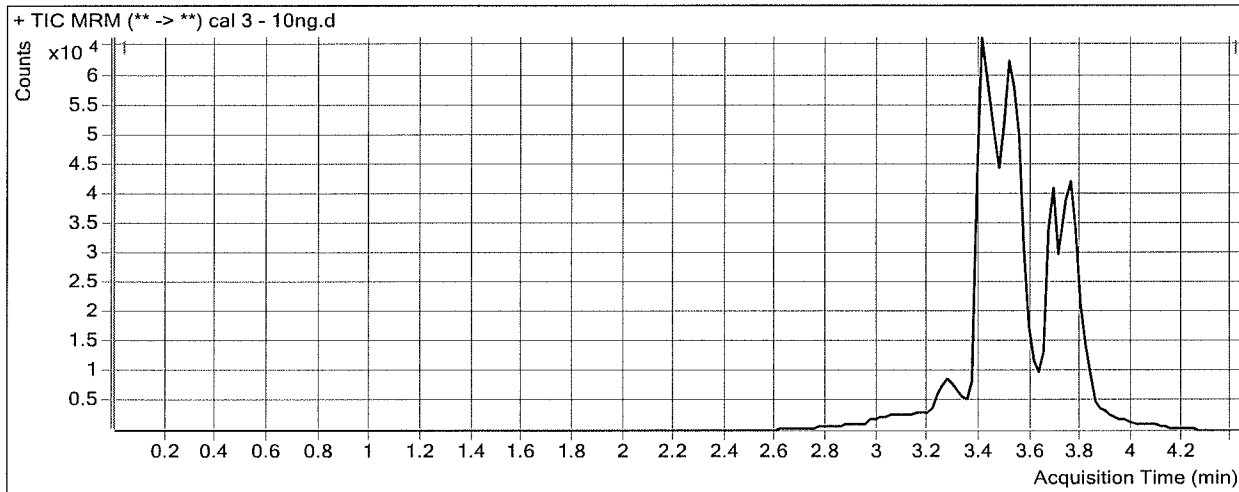
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 11:50 **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	3.433	19890	291056	0.0683	8.8031
THC-COOH	3.546	78152	171947	0.4545	9.8264
THC	3.740	6175	70664	0.0874	9.6865

ISP FORENSICS - Cd'A

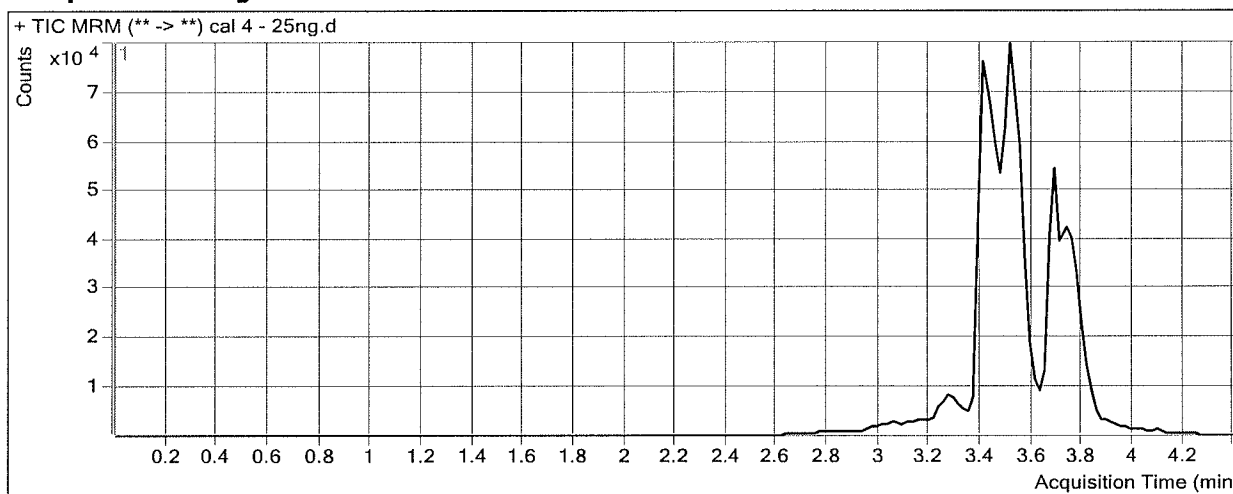
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 11:57 **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	3.412	61251	306882	0.1996	24.9708
THC-COOH	3.546	120571	154868	0.7785	24.7452
THC	3.760	13227	55690	0.2375	25.8263

ISP FORENSICS - Cd'A

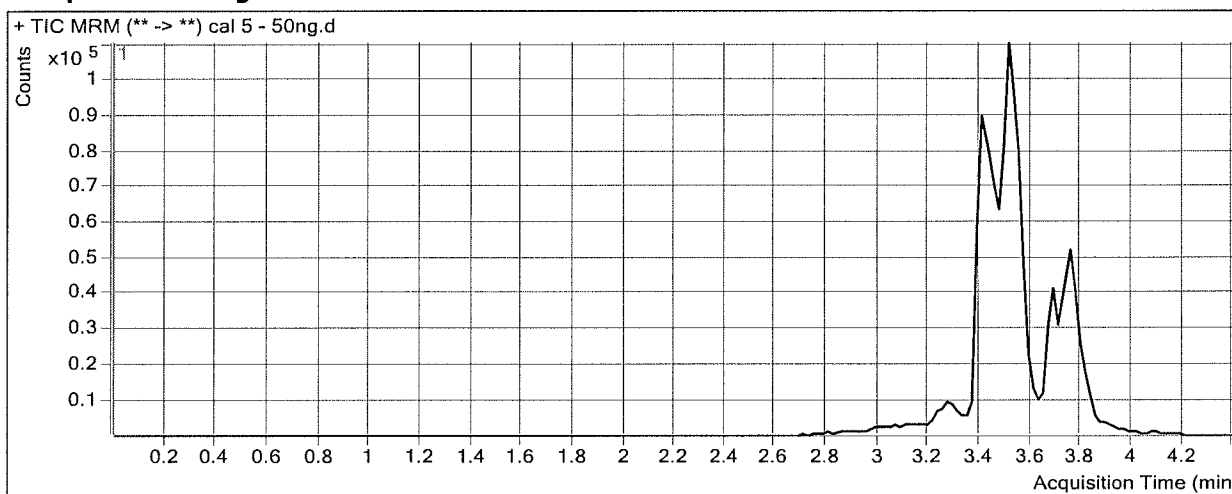
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 12:03 **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	3.412	125896	313273	0.4019	49.8872
THC-COOH	3.506	206693	160452	1.2882	48.2101
THC	3.760	30141	67321	0.4477	48.4239

ISP FORENSICS - Cd'A

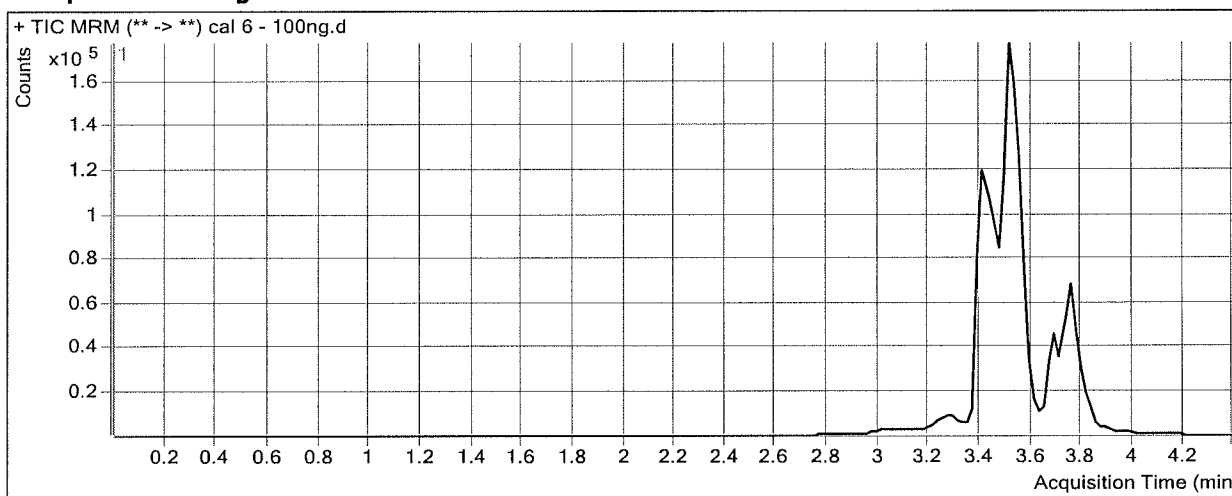
Cannabionoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 12:10 **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	3.412	256697	338368	0.7586	93.8316
THC-COOH	3.506	384625	169333	2.2714	93.4786
THC	3.760	59642	71079	0.8391	90.4984

ISP FORENSICS - Cd'A

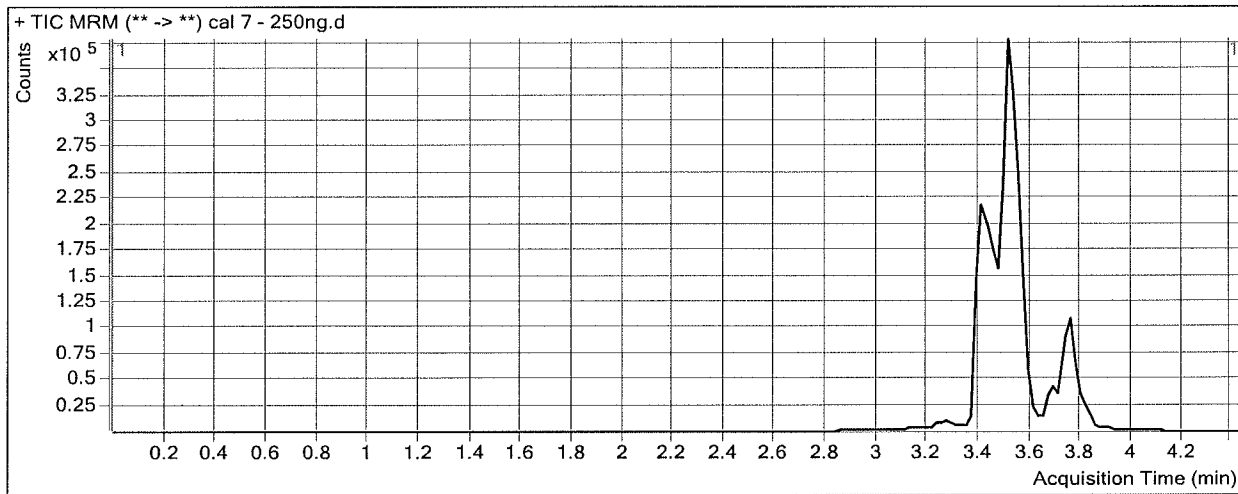
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\82117 blood screen AM 25-26\QuantResults\82117 cann screen.batch.bin
Analysis Time 8/21/2017 3:39 PM **Analyst Name** ISP Tox
Report Time 8/21/2017 3:40 PM **Reporter Name** ISP Tox
Last Calib Update 8/21/2017 3:39 PM **Batch State** Processed

Analysis Info

Acq Time 2017-08-21 12:23 **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	3.412	726898	349301	2.0810	256.7177
THC-COOH	3.506	909696	155492	5.8504	258.2620
THC	3.760	166994	69087	2.4172	260.1435