































Bylee

Worklist: 1831

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1321	1	91479	AM 25/AM 26 Blood MultiDrug/	
C2017-1350	1	89140	AM 25/AM 26 Blood MultiDrug/	
C2017-1361	1	89222	AM 25/AM 26 Blood MultiDrug/	
C2017-1459	1	90639	AM 25/AM 26 Blood MultiDrug/	
C2017-1459	2	91741	AM 25/AM 26 Blood MultiDrug/	
C2017-1459	3	91742	AM 25/AM 26 Blood MultiDrug/	
C2017-1467	1	90705	AM 25/AM 26 Blood MultiDrug/	
C2017-1469	2	90711	AM 25/AM 26 Blood MultiDrug/	
C2017-1482	1	90842	AM 25/AM 26 Blood MultiDrug/	
C2017-1488	1	90889	AM 25/AM 26 Blood MultiDrug/	
C2017-1493	1	90945	AM 25/AM 26 Blood MultiDrug/	
C2017-1494	1	90947	AM 25/AM 26 Blood MultiDrug/	
C2017-1495	1	90949	AM 25/AM 26 Blood MultiDrug/	
C2017-1496	1	90960	AM 25/AM 26 Blood MultiDrug/	
C2017-1497	1	90966	AM 25/AM 26 Blood MultiDrug/	
C2017-1501	1	90975	AM 25/AM 26 Blood MultiDrug/	
C2017-1502	1	90977	AM 25/AM 26 Blood MultiDrug/	
C2017-1505	1	90994	AM 25/AM 26 Blood MultiDrug/	
C2017-1520	1	91174	AM 25/AM 26 Blood MultiDrug/	
C2017-1550	1	91505	AM 25/AM 26 Blood MultiDrug/	
C2017-1559	1	91552	AM 25/AM 26 Blood MultiDrug/	
C2017-1560	1	91554	AM 25/AM 26 Blood MultiDrug/	
C2017-1570	1	91694	AM 25/AM 26 Blood MultiDrug/	



Worklist: 1831

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2017-1571	1	91696	AM 25/AM 26 Blood MultiDrug/	
M2017-3266	1	91105	AM 25/AM 26 Blood MultiDrug/	
M2017-3293	2	91690	AM 25/AM 26 Blood MultiDrug/	
M2017-3455	1	91408	AM 25/AM 26 Blood MultiDrug/	
M2017-3551	2	91692	AM 25/AM 26 Blood MultiDrug/	
P2017-1758	1	91414	AM 25/AM 26 Blood MultiDrug/	
P2017-1759	1	91415	AM 25/AM 26 Blood MultiDrug/	



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

Extraction Date: 8-7-17

Analyst: Anne Nord

PRE-ANALYTIC

Plate Lot# 0495940

Plate Exp. 12-12-17

- ✓ 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

0.5M Ammonium Hydroxide Lot #: 61917
Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**

Lot #: 321623-1

- ✓ 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: 8717 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: 8717 mds panel 1

- ✓ 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 _____

- ✓ 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



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



Compound Method		p1 cal 1-1a				p1 cal 1-1a Results				Qualifier 1 M...		Qualifier 1 R...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.				
6-MAM	328.2 -> 165...	8/7/2017 5:13...	4.975	1460	1460	Infinity	328.2 -> 211...		12.13	6-MAM-D6	334.2 -> 165...	4.954	46964				
7-aminoclonazepam	286.1 -> 121...	8/7/2017 5:13...	5.571	44207		102.97	286.1 -> 222...		5378.87	7-Aminoclonazepam-D4	290.1 -> 121...	5.550	170434				
Acetyl Fentanyl	323.2 -> 105...	8/7/2017 5:13...	5.810	23179		28.24	323.2 -> 188...		54.30	Acetyl Fentanyl-D5	328.2 -> 105...	5.808	1402614				
Acetyl Norfentanyl	219.1 -> 84.2	8/7/2017 5:13...	4.908	8428		39.46	219.1 -> 56.3		101.30	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.888	515597				
a-hydroxylprazosolam	325.1 -> 297...	8/7/2017 5:13...	6.399	8228		33.13	325.1 -> 215...		30.12	a-hydroxylprazosolam-D5	330.1 -> 302...	6.377	42311				
alpha-PVP	232.2 -> 91.0	8/7/2017 5:13...	5.578	128781		1025.67	232.2 -> 77.1		131.56	alpha-PVP-d8	240.2 -> 91.1	5.598	75721				
Alprazolam	309.1 -> 281...	8/7/2017 5:13...	6.485	71344		258.12	309.1 -> 205...		227.15	Alprazolam-D5	314.1 -> 286...	6.463	257218				
Amphetamine	136.1 -> 91.1	8/7/2017 5:13...	4.850	169499		30.40	136.1 -> 119...		16.73	Amphetamine-D11	147.2 -> 130...	4.809	140167				
Bupropion	240.1 -> 184...	8/7/2017 5:13...	5.761	111872		404.03	240.1 -> 131...		16723	Bupropion-D9	249.2 -> 185...	5.740	524418				
Carisoprodol	261.2 -> 176...	8/7/2017 5:13...	6.126	70349		16974	261.2 -> 55.3		42.20	Carisoprodol-D7	268.2 -> 183...	6.125	446075				
Citalopram	325.2 -> 109...	8/7/2017 5:13...	6.073	218394		116.35	325.2 -> 262...		622.69	Citalopram-D6	331.2 -> 109...	6.072	1004742				
Clonazepam	316.1 -> 269...	8/7/2017 5:13...	6.340	24041		100.15	316.1 -> 213...		23.43	Clonazepam-D4	320.1 -> 217...	6.320	31315				
Codeine	300.2 -> 215...	8/7/2017 5:13...	4.837	10145		154.23	300.2 -> 165...		25.70	Codeine-D6	306.2 -> 218...	4.815	40404				
Cyclobenzaprine	276.2 -> 214...	8/7/2017 5:13...	6.328	126104		423.89	276.2 -> 231...		252.85	Cyclobenzaprine-D3	279.2 -> 215...	6.327	570480				
Dextromethorphan	272.2 -> 171...	8/7/2017 5:13...	6.083	56549		237.55	272.2 -> 147...		53.26	Dextromethorphan-D3	275.2 -> 171...	6.104	251897				
Dextropropriphan	258.2 -> 157...	8/7/2017 5:13...	5.453	51214		92.35	258.2 -> 133...		114.10	Dextropropriphan-D3	261.2 -> 157...	5.452	276957				
Diazepam	285.1 -> 193...	8/7/2017 5:13...	6.691	54633		43.63	285.1 -> 153...		49.03	Diazepam-D5	290.1 -> 198...	6.690	224979				
Dihydrocodeine	302.2 -> 198...	8/7/2017 5:13...	4.796	25811		132.69	302.2 -> 128...		33.02	Dihydrocodeine-D6	308.2 -> 202...	4.774	141611				
Diphenhydramine	256.2 -> 167...	8/7/2017 5:13...	6.025	294932		770.38	256.2 -> 152...		288.34	Diphenhydramine-D3	259.2 -> 167...	6.025	1520838				
Doxylamine	271.2 -> 182...	8/7/2017 5:13...	5.697	281144		233.57	271.2 -> 167...		219.04	Doxylamine-D5	276.2 -> 187...	5.696	1363512				
EDDP	279.2 -> 235...	8/7/2017 5:13...	6.081	250741		3730.57	279.2 -> 250...		758.92	EDDP-D3	282.2 -> 235...	6.081	107790				
Fentanyl	337.2 -> 105...	8/7/2017 5:13...	6.031	27820		99.53	337.2 -> 188...		101.32	Fentanyl-D5	342.3 -> 105...	6.011	1283294				
Fluoxetine	310.1 -> 44.3	8/7/2017 5:13...	6.281	330679		487.37	310.1 -> 148...		63.67	Oxycodone-D6	322.2 -> 304...	4.935	265226				
Hydrocodone	300.2 -> 198...	8/7/2017 5:13...	5.081	41128		49.63	300.2 -> 128...		251.28	Hydrocodone-D6	306.2 -> 202...	5.038	214767				
Hydromorphone	286.2 -> 184...	8/7/2017 5:13...	4.498	22836		174.39	286.2 -> 157...		79.01	Hydromorphone-D6	292.2 -> 185...	4.477	73527				
Ketamine	238.1 -> 125...	8/7/2017 5:13...	5.476	82678		456.10	238.1 -> 220...		19.93	Ketamine-D4	242.1 -> 129...	5.455	322285				
Meprobamate	219.1 -> 158...	8/7/2017 5:13...	5.641	20445		19.98	219.1 -> 97.1		12.61	Meprobamate-D7	226.2 -> 165...	5.640	109196				
Methadone	310.2 -> 265...	8/7/2017 5:13...	6.361	267652		335.49	310.2 -> 105...		248.07	Methadone-D9	319.3 -> 268...	6.360	1406186				
Methamphetamine	150.1 -> 91.1	8/7/2017 5:13...	5.011	206527		Infinity	150.1 -> 119...		13.40	Methamphetamine-D11	161.2 -> 97.1	4.970	382022				
Morphine	286.2 -> 201...	8/7/2017 5:13...	4.317	4780		5.07	286.2 -> 165...		33.01	Morphine-D6	292.2 -> 152...	4.276	4221				
Naloxone	328.2 -> 309...	8/7/2017 5:13...					328.2 -> 211...			Naloxone-D5	333.2 -> 315...	4.853	232221				
Naltrexol	344.2 -> 326...	8/7/2017 5:13...	4.933	99974		230.08	344.2 -> 308...		56.77	Naltrexol-D3	347.2 -> 329...	4.932	384405				
Naltrexone	342.2 -> 324...	8/7/2017 5:13...	4.913	47364		172.41	342.2 -> 55.3		89.57	Naltrexone-D3	345.2 -> 327...	4.892	240132				
Norbuprenorphine	414.3 -> 101...	8/7/2017 5:13...	5.846	9769		37.72	414.3 -> 57.3		15.52	Norbuprenorphine-D3	417.3 -> 101...	5.846	47563				
Nordiazepam	271.1 -> 140...	8/7/2017 5:13...	6.553	30386		44.53	271.1 -> 208...		Infinity	Nordiazepam-D5	276.1 -> 140...	6.552	89917				
Norfentanyl	233.2 -> 84.2	8/7/2017 5:13...	5.374	184460		339.16	233.2 -> 55.3		72.87	Norfentanyl-D5	238.2 -> 84.2	5.353	781891				
Norhydrocodone	286.2 -> 199...	8/7/2017 5:13...	5.002	2950		36.72	286.2 -> 171...		4.49	Norhydrocodone-D3	289.2 -> 202...	4.981	71532				
Noroxycodone	302.1 -> 284...	8/7/2017 5:13...	4.917	31143		27.54	302.1 -> 186...		1926.37	Noroxycodone-D3	305.2 -> 287...	4.896	131224				
O-desmethyl-tramadol	250.2 -> 58.3	8/7/2017 5:13...	4.945	210029		381.20	250.2 -> 42.3		2204.37	O-desmethyl-tramadol-...	256.2 -> 64.3	4.945	907888				
Oxazepam	287.1 -> 240...	8/7/2017 5:13...	6.386	23766		16.01	287.1 -> 268...		Infinity	Oxazepam-D5	292.1 -> 246...	6.385	120522				
Oxycodone	316.2 -> 298...	8/7/2017 5:13...	4.955	59882		731.23	316.2 -> 241...		41.13	Oxycodone-D6	322.2 -> 304...	4.935	265226				
Oxymorphone	302.1 -> 284...	8/7/2017 5:13...	4.333	57720		Infinity	302.1 -> 227...		190.51	Oxymorphone-D3	305.2 -> 287...	4.332	259206				
Phentermine	150.1 -> 65.2	8/7/2017 5:13...	5.153	55751		Infinity	150.1 -> 133...		Infinity	Phentermine-D5	155.2 -> 96.2	5.132	477890				
Promethazine	285.1 -> 86.2	8/7/2017 5:13...	6.305	397628		2426.14	285.1 -> 71.3		82.47	Promethazine-D3	288.2 -> 89.2	6.304	2018981				
Quetiapine	384.2 -> 253...	8/7/2017 5:13...	6.314	289524		66340	384.2 -> 221...		389.96	Quetiapine-D8	392.2 -> 226...	6.273	372218				
Sertraline	306.1 -> 158...	8/7/2017 5:13...	6.526	92157		345.33	306.1 -> 275...		812.28	Sertraline-D3	309.1 -> 275...	6.525	449252				
Sufentanil	387.2 -> 238...	8/7/2017 5:13...	6.273	22688		3250.19	387.2 -> 111...		41.06	Sufentanil-D5	392.2 -> 238...	6.273	875918				

not evaluated

Compound Method		p1 cal 1-1a		p1 cal 1-1a Results			Qualifier 1 M...		Qualifier 1 R...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.	
Temazepam	301.1 -> 255...	8/7/2017 5:13...	6.527	99070	☐	Infinity	301.1 -> 283...	☐	7.82	Temazepam-D5	306.1 -> 260...	6.506	481315	
Tramadol	264.2 -> 58.3	8/7/2017 5:13...	5.472	282484	☐	106.19	264.2 -> 43.3	☐	6.64	Tramadol-13C-D3	268.2 -> 58.3	5.472	1237910	
Trazodone	372.2 -> 176...	8/7/2017 5:13...	6.315	227213	☐	Infinity	372.2 -> 148...	☐	28693...	Trazodone-D6	378.2 -> 182...	6.274	984688	
Venlafaxine	278.2 -> 58.3	8/7/2017 5:13...	5.817	269502	☐	249.58	278.2 -> 260...	☐	30.29	Venlafaxine-D6	284.2 -> 64.3	5.816	1184546	
Zolpidem	308.2 -> 235...	8/7/2017 5:13...	6.078	229227	☐	1526.40	308.2 -> 263...	☐	447.58	Zolpidem-D6	314.2 -> 235...	6.076	1083468	

Compound Method		p1 negative		p1 negative Results		Qualifier 1 M...		Qualifier...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.	
6-MAM	328.2 -> 165...	8/7/2017 5:32 PM					328.2 -> 211...			6-MAM-D6	334.2 -> 165...	4.954	47271	
7-aminoclonazepam	286.1 -> 121...	8/7/2017 5:32 PM					286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.550	177306	
Acetyl Fentanyl	323.2 -> 105...	8/7/2017 5:32 PM					323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	5.808	12909...	
Acetyl Norfentanyl	219.1 -> 84.2	8/7/2017 5:32 PM	5.030	86		0.87	219.1 -> 56.3		1.08	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.888	484334	
a-hydroxylprazolam	325.1 -> 297...	8/7/2017 5:32 PM	6.501	23		0.66	325.1 -> 215...			a-hydroxylprazolam-D5	330.1 -> 302...	6.377	43347	
alpha-PVP	232.2 -> 91.0	8/7/2017 5:32 PM	5.578	276		1.32	232.2 -> 77.1		0.83	alpha-PVP-d8	240.2 -> 91.1	5.945	8	
Alprazolam	309.1 -> 281...	8/7/2017 5:32 PM	6.322	3868		7.68	309.1 -> 205...		0.51	Alprazolam-D5	314.1 -> 286...	6.463	260825	
Amphetamine	136.1 -> 91.1	8/7/2017 5:32 PM	4.972	50202		12.62	136.1 -> 119...		0.72	Amphetamine-D11	147.2 -> 130...	4.809	193360	
Bupropion	240.1 -> 184...	8/7/2017 5:32 PM	5.516	95		0.82	240.1 -> 131...		32.44	Bupropion-D9	249.2 -> 185...	5.740	510419	
Carisoprodol	261.2 -> 176...	8/7/2017 5:32 PM	6.452	293		0.34	261.2 -> 55.3		0.91	Carisoprodol-D7	268.2 -> 183...	6.125	450556	
Citalopram	325.2 -> 109...	8/7/2017 5:32 PM	6.073	160		0.55	325.2 -> 262...			Citalopram-D6	331.2 -> 109...	6.072	923554	
Clonazepam	316.1 -> 269...	8/7/2017 5:32 PM	6.340	66		0.70	316.1 -> 213...		1.80	Clonazepam-D4	320.1 -> 217...	6.320	35098	
Codeine	300.2 -> 215...	8/7/2017 5:32 PM	4.858	22		4.89	300.2 -> 165...			Codeine-D6	306.2 -> 218...	4.815	38862	
Cyclobenzaprine	276.2 -> 214...	8/7/2017 5:32 PM	6.368	201		1.58	276.2 -> 231...		Infini...	Cyclobenzaprine-D3	279.2 -> 215...	6.327	523081	
Dextromethorphan	272.2 -> 171...	8/7/2017 5:32 PM	6.186	31		1.64	272.2 -> 147...		0.53	Dextromethorphan-D3	275.2 -> 171...	6.083	242318	
Dextropropion	258.2 -> 157...	8/7/2017 5:32 PM	5.535	30		0.76	258.2 -> 133...			Dextropropion-D3	261.2 -> 157...	5.452	240876	
Diazepam	285.1 -> 193...	8/7/2017 5:32 PM					285.1 -> 153...			Diazepam-D5	290.1 -> 198...	6.690	217528	
Dihydrocodeine	302.2 -> 198...	8/7/2017 5:32 PM					302.2 -> 128...			Dihydrocodeine-D6	308.2 -> 202...	4.774	126342	
Diphenhydramine	256.2 -> 167...	8/7/2017 5:32 PM	6.025	442		0.70	256.2 -> 152...		0.44	Diphenhydramine-D3	259.2 -> 167...	6.025	14836...	
Doxylamine	271.2 -> 182...	8/7/2017 5:32 PM	5.717	1431		1.61	271.2 -> 167...		0.69	Doxylamine-D5	276.2 -> 187...	5.696	12250...	
EDDP	279.2 -> 235...	8/7/2017 5:32 PM	6.102	80		0.71	279.2 -> 250...		1.40	EDDP-D3	282.2 -> 235...	6.081	97863	
Fentanyl	337.2 -> 105...	8/7/2017 5:32 PM	6.031	118		0.18	337.2 -> 188...		0.79	Fentanyl-D5	342.3 -> 105...	6.011	11718...	
Fluoxetine	310.1 -> 44.3	8/7/2017 5:32 PM	6.403	953		0.80	310.1 -> 148...		0.70	Oxycodone-D6	322.2 -> 304...	4.935	253957	
Hydrocodone	300.2 -> 198...	8/7/2017 5:32 PM	4.898	73		1.09	300.2 -> 128...			Hydrocodone-D6	306.2 -> 202...	5.038	205707	
Hydromorphine	286.2 -> 184...	8/7/2017 5:32 PM	4.056	8		0.28	286.2 -> 157...		0.22	Hydromorphine-D6	292.2 -> 185...	4.477	70124	
Ketamine	238.1 -> 125...	8/7/2017 5:32 PM	5.374	866		2.47	238.1 -> 220...		0.46	Ketamine-D4	242.1 -> 129...	5.455	301292	
Meprobamate	219.1 -> 158...	8/7/2017 5:32 PM	5.559	272		0.94	219.1 -> 97.1			Meprobamate-D7	226.2 -> 165...	5.620	96503	
Methadone	310.2 -> 265...	8/7/2017 5:32 PM	6.443	2301		2.23	310.2 -> 105...			Methadone-D9	319.3 -> 268...	6.360	12583...	
Methamphetamine	150.1 -> 91.1	8/7/2017 5:32 PM	5.031	103170		2.71	150.1 -> 119...		2.42	Methamphetamine-D11	161.2 -> 97.1	4.990	378555	
Morphine	286.2 -> 201...	8/7/2017 5:32 PM	4.698	209		1.47	286.2 -> 165...		0.71	Morphine-D6	292.2 -> 152...	4.296	3536	
Naloxone	328.2 -> 309...	8/7/2017 5:32 PM					328.2 -> 211...			Naloxone-D5	333.2 -> 315...	4.853	217318	
Naltrexol	344.2 -> 326...	8/7/2017 5:32 PM	4.912	5788		11.91	344.2 -> 308...			Naltrexol-D3	347.2 -> 329...	4.932	344737	
Naltrexone	342.2 -> 324...	8/7/2017 5:32 PM	4.893	47		0.38	342.2 -> 55.3		0.51	Naltrexone-D3	345.2 -> 327...	4.912	223282	
Norbuprenorphine	414.3 -> 101...	8/7/2017 5:32 PM	5.907	114		0.69	414.3 -> 57.3		0.85	Norbuprenorphine-D3	417.3 -> 101...	5.846	40165	
Nordiazepam	271.1 -> 140...	8/7/2017 5:32 PM	6.634	64		0.37	271.1 -> 208...		1.33	Nordiazepam-D5	276.1 -> 140...	6.552	90635	
Norfentanyl	233.2 -> 84.2	8/7/2017 5:32 PM	5.354	25		2.71	233.2 -> 55.3		2.50	Norfentanyl-D5	238.2 -> 84.2	5.353	752156	
Norhydrocodone	286.2 -> 199...	8/7/2017 5:32 PM	4.940	302		70.30	286.2 -> 171...			Norhydrocodone-D3	289.2 -> 202...	4.961	64962	
Noroxycodone	302.1 -> 284...	8/7/2017 5:32 PM	4.917	1328		1.20	302.1 -> 186...			Noroxycodone-D3	305.2 -> 287...	4.896	131234	
O-desmethyl-tramadol	250.2 -> 58.3	8/7/2017 5:32 PM	4.925	466		Infinity	250.2 -> 42.3			O-desmethyl-tramadol...	256.2 -> 64.3	4.945	825393	
Oxazepam	287.1 -> 240...	8/7/2017 5:32 PM					287.1 -> 268...			Oxazepam-D5	292.1 -> 246...	6.385	134086	
Oxycodone	316.2 -> 298...	8/7/2017 5:32 PM	4.955	560		1.45	316.2 -> 241...		0.37	Oxycodone-D6	322.2 -> 304...	4.935	253957	
Oxymorphone	302.1 -> 284...	8/7/2017 5:32 PM					302.1 -> 227...			Oxymorphone-D3	305.2 -> 287...	4.332	253158	
Phentermine	150.1 -> 65.2	8/7/2017 5:32 PM	5.011	28679		2.58	150.1 -> 133...		0.53	Phentermine-D5	155.2 -> 96.2	5.132	435094	
Promethazine	285.1 -> 86.2	8/7/2017 5:32 PM	6.325	755		0.89	285.1 -> 71.3			Promethazine-D3	288.2 -> 89.2	6.304	18633...	
Quetiapine	384.2 -> 253...	8/7/2017 5:32 PM	6.375	137		0.54	384.2 -> 221...		21.16	Quetiapine-D8	392.2 -> 226...	6.273	354125	
Sertraline	306.1 -> 158...	8/7/2017 5:32 PM	6.486	208		1.33	306.1 -> 275...			Sertraline-D3	309.1 -> 275...	6.525	422249	
Sufentanil	387.2 -> 238...	8/7/2017 5:32 PM	6.294	1193		12.35	387.2 -> 111...		3.84	Sufentanil-D5	392.2 -> 238...	6.273	794928	

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Compound Method		p1 negative			p1 negative Results			Qualifier 1 M...		Qualifier...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.			
Temazepam	301.1 -> 255...	8/7/2017 5:32 PM	6.729	130		0.37	301.1 -> 283...			Temazepam-D5	306.1 -> 260...	6.506	471870			
Tramadol	264.2 -> 58.3	8/7/2017 5:32 PM	5.472	6121		1.23	264.2 -> 43.3		0.83	Tramadol-13C-D3	268.2 -> 58.3	5.452	11426...			
Trazodone	372.2 -> 176...	8/7/2017 5:32 PM	6.356	1373		29.57	372.2 -> 148...		2.68	Trazodone-D6	378.2 -> 182...	6.274	977381			
Venlafaxine	278.2 -> 58.3	8/7/2017 5:32 PM	6.041	2762		3.15	278.2 -> 260...		0.90	Venlafaxine-D6	284.2 -> 64.3	5.816	10635...			
Zolpidem	308.2 -> 235...	8/7/2017 5:32 PM	6.139	90		0.45	308.2 -> 263...			Zolpidem-D6	314.2 -> 235...	6.076	10201...			

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.	
6-MAM	328.2 -> 165...	8/8/2017 8:44 AM					328.2 -> 211...			6-MAM-D6	334.2 -> 165...	4.974	37042	
7-aminoclonazepam	286.1 -> 121...	8/8/2017 8:44 AM					286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.550	135313	
Acetyl Fentanyl	323.2 -> 105...	8/8/2017 8:44 AM					323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	5.829	10620...	
Acetyl Norfentanyl	219.1 -> 84.2	8/8/2017 8:44 AM	4.949	31		1.87	219.1 -> 56.3		3.73	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.908	385102	
a-hydroxylprazolam	325.1 -> 297...	8/8/2017 8:44 AM	6.155	51		2.52	325.1 -> 215...		0.50	a-hydroxylprazolam-D5	330.1 -> 302...	6.377	31954	
alpha-PVP	232.2 -> 91.0	8/8/2017 8:44 AM	5.722	117		2.00	232.2 -> 77.1			alpha-PVP-d8	240.2 -> 91.1	5.843	909	
Alprazolam	309.1 -> 281...	8/8/2017 8:44 AM	6.301	2768		15.15	309.1 -> 205...			Alprazolam-D5	314.1 -> 286...	6.463	209577	
Amphetamine	136.1 -> 91.1	8/8/2017 8:44 AM	4.972	38157		7.05	136.1 -> 119...		1.02	Amphetamine-D11	147.2 -> 130...	4.830	116068	
Bupropion	240.1 -> 184...	8/8/2017 8:44 AM	5.986	49		0.52	240.1 -> 131...			Bupropion-D9	249.2 -> 185...	5.760	466907	
Carisoprodol	261.2 -> 176...	8/8/2017 8:44 AM	6.208	60		0.52	261.2 -> 55.3		0.60	Carisoprodol-D7	268.2 -> 183...	6.105	330082	
Citalopram	325.2 -> 109...	8/8/2017 8:44 AM	6.480	333		0.62	325.2 -> 262...			Citalopram-D6	331.2 -> 109...	6.072	794683	
Clonazepam	316.1 -> 269...	8/8/2017 8:44 AM	6.280	70		0.70	316.1 -> 213...			Clonazepam-D4	320.1 -> 217...	6.320	24354	
Codeine	300.2 -> 215...	8/8/2017 8:44 AM	4.878	70089		1863.78	300.2 -> 165...		3309.77	Codeine-D6	306.2 -> 218...	4.855	31043	
Cyclobenzaprine	276.2 -> 214...	8/8/2017 8:44 AM	6.348	49		0.93	276.2 -> 231...		0.32	Cyclobenzaprine-D3	279.2 -> 215...	6.327	439096	
Dextromethorphan	272.2 -> 171...	8/8/2017 8:44 AM					272.2 -> 147...			Dextromethorphan-D3	275.2 -> 171...	6.104	192981	
Dextropropfan	258.2 -> 157...	8/8/2017 8:44 AM					258.2 -> 133...			Dextropropfan-D3	261.2 -> 157...	5.452	200127	
Diazepam	285.1 -> 193...	8/8/2017 8:44 AM	6.386	275		0.73	285.1 -> 153...		0.57	Diazepam-D5	290.1 -> 198...	6.690	165694	
Dihydrocodeine	302.2 -> 198...	8/8/2017 8:44 AM	4.876	38		0.69	302.2 -> 128...		4.86	Dihydrocodeine-D6	308.2 -> 202...	4.794	98711	
Diphenhydramine	256.2 -> 167...	8/8/2017 8:44 AM	6.025	23112...		5223.60	256.2 -> 152...		2889.70	Diphenhydramine-D3	259.2 -> 167...	6.025	11551...	
Doxylamine	271.2 -> 182...	8/8/2017 8:44 AM	5.717	415		3.67	271.2 -> 167...		0.60	Doxylamine-D5	276.2 -> 187...	5.696	10297...	
EDDP	279.2 -> 235...	8/8/2017 8:44 AM	6.102	164		2.33	279.2 -> 250...		1.94	EDDP-D3	282.2 -> 235...	6.081	93350	
Fentanyl	337.2 -> 105...	8/8/2017 8:44 AM	6.356	508		0.83	337.2 -> 188...			Fentanyl-D5	342.3 -> 105...	6.031	10804...	
Fluoxetine	310.1 -> 44.3	8/8/2017 8:44 AM	6.220	114		0.63	310.1 -> 148...			Oxycodone-D6	322.2 -> 304...	4.955	200831	
Hydrocodone	300.2 -> 198...	8/8/2017 8:44 AM	4.878	35357		154.58	300.2 -> 128...		10607....	Hydrocodone-D6	306.2 -> 202...	5.058	159043	
Hydromorphone	286.2 -> 184...	8/8/2017 8:44 AM	4.377	33387		792.76	286.2 -> 157...		202.17	Hydromorphone-D6	292.2 -> 185...	4.517	57145	
Ketamine	238.1 -> 125...	8/8/2017 8:44 AM	5.374	610		7.20	238.1 -> 220...		0.47	Ketamine-D4	242.1 -> 129...	5.475	245810	
Meprobamate	219.1 -> 158...	8/8/2017 8:44 AM	5.763	112		0.47	219.1 -> 97.1			Meprobamate-D7	226.2 -> 165...	5.620	53325	
Methadone	310.2 -> 265...	8/8/2017 8:44 AM	6.443	1176		2.48	310.2 -> 105...		0.73	Methadone-D9	319.3 -> 268...	6.360	11084...	
Methamphetamine	150.1 -> 91.1	8/8/2017 8:44 AM	5.031	111260		6.35	150.1 -> 119...		5.13	Methamphetamine-D11	161.2 -> 97.1	5.010	292238	
Morphine	286.2 -> 201...	8/8/2017 8:44 AM	4.377	76348		2319.25	286.2 -> 165...		791.22	Morphine-D6	292.2 -> 152...	4.336	2187	
Naloxone	328.2 -> 309...	8/8/2017 8:44 AM	4.953	3915		13.15	328.2 -> 211...			Naloxone-D5	333.2 -> 315...	4.914	170580	
Naltrexol	344.2 -> 326...	8/8/2017 8:44 AM	5.116	45		0.40	344.2 -> 308...			Naltrexol-D3	347.2 -> 329...	4.953	286042	
Naltrexone	342.2 -> 324...	8/8/2017 8:44 AM	6.272	327		76.81	342.2 -> 55.3		2.74	Naltrexone-D3	345.2 -> 327...	4.932	182599	
Norbuprenorphine	414.3 -> 101...	8/8/2017 8:44 AM	6.634	61		0.42	414.3 -> 57.3		0.95	Norbuprenorphine-D3	417.3 -> 101...	5.846	34519	
Nordiazepam	271.1 -> 140...	8/8/2017 8:44 AM	6.634	61		0.42	271.1 -> 208...			Nordiazepam-D5	276.1 -> 140...	6.552	81706	
Norfentanyl	233.2 -> 84.2	8/8/2017 8:44 AM	4.940	233		9.14	233.2 -> 55.3			Norfentanyl-D5	238.2 -> 84.2	5.374	634118	
Norhydrocodone	286.2 -> 199...	8/8/2017 8:44 AM	5.019	1023		0.80	286.2 -> 171...			Norhydrocodone-D3	289.2 -> 202...	4.981	53169	
Noroxycodone	302.1 -> 284...	8/8/2017 8:44 AM	4.945	912		6.69	302.1 -> 186...		14.33	Noroxycodone-D3	305.2 -> 287...	4.916	100060	
O-desmethyl-tramadol	250.2 -> 58.3	8/8/2017 8:44 AM	6.386	122		0.73	250.2 -> 42.3			O-desmethyl-tramadol-...	256.2 -> 64.3	4.945	751377	
Oxazepam	287.1 -> 240...	8/8/2017 8:44 AM	4.955	251		2.37	287.1 -> 268...		0.78	Oxazepam-D5	292.1 -> 246...	6.385	107629	
Oxycodone	316.2 -> 298...	8/8/2017 8:44 AM	4.373	35		0.22	316.2 -> 241...		0.52	Oxycodone-D6	322.2 -> 304...	4.955	200831	
Oxymorphone	302.1 -> 284...	8/8/2017 8:44 AM	5.031	33872		5.40	302.1 -> 227...		1.32	Oxymorphone-D3	305.2 -> 287...	4.372	198336	
Phentermine	150.1 -> 65.2	8/8/2017 8:44 AM	6.406	11		0.23	150.1 -> 133...			Phentermine-D5	155.2 -> 96.2	5.153	343706	
Promethazine	285.1 -> 86.2	8/8/2017 8:44 AM	6.274	82		1.31	285.1 -> 71.3			Promethazine-D3	288.2 -> 89.2	6.304	17019...	
Quetiapine	384.2 -> 253...	8/8/2017 8:44 AM	6.628	16		0.44	384.2 -> 221...			Quetiapine-D8	392.2 -> 226...	6.293	289224	
Sertraline	306.1 -> 158...	8/8/2017 8:44 AM	6.314	1086		250.64	306.1 -> 275...		5.63	Sertraline-D3	309.1 -> 275...	6.525	391864	
Sufentanil	387.2 -> 238...	8/8/2017 8:44 AM	6.314	1086		250.64	387.2 -> 111...		3.82	Sufentanil-D5	392.2 -> 238...	6.293	650603	

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.			
Temazepam	301.1 -> 255...	8/8/2017 8:44 AM	6.344	74		0.42	301.1 -> 283...		0.85	Temazepam-D5	306.1 -> 260...	6.526	386184			
Tramadol	264.2 -> 58.3	8/8/2017 8:44 AM	5.472	5133		8.65	264.2 -> 43.3			Tramadol-13C-D3	268.2 -> 58.3	5.472	10224...			
Trazodone	372.2 -> 176...	8/8/2017 8:44 AM	6.356	548		4.25	372.2 -> 148...		2.19	Trazodone-D6	378.2 -> 182...	6.335	770884			
Venlafaxine	278.2 -> 58.3	8/8/2017 8:44 AM	5.634	336		0.63	278.2 -> 260...		0.55	Venlafaxine-D6	284.2 -> 64.3	5.816	948990			
Zolpidem	308.2 -> 235...	8/8/2017 8:44 AM	6.424	78		1.59	308.2 -> 263...			Zolpidem-D6	314.2 -> 235...	6.117	833031			

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	Name	Transition	RT	Resp.			
7-aminoflunitrazepam	284.1 → 135...	8/7/2017 5:23 PM	5.742	62578	318.35	284.1 → 93.2	45.19	7-aminoflunitrazepam-D7	291.2 → 138...	5.740	285853								
alpha-hydroxymidazolam	342.1 → 324...	8/7/2017 5:23 PM	6.448	95014	Infinity	342.1 → 203...	207.34	alpha-hydroxymidazolam-...	346.1 → 328...	6.447	462446								
Amitriptyline	278.2 → 91.2	8/7/2017 5:23 PM	6.397	265282	Infinity	278.2 → 105...	Infinity	Amitriptyline-D3	281.2 → 91.2	6.396	508274								
Amoxapine	314.1 → 271...	8/7/2017 5:23 PM	6.370	79172	1364.1...	314.1 → 193...	78.42	Amitriptyline-D3	281.2 → 91.2	6.396	508274								
Benzylecgonine	290.1 → 168...	8/7/2017 5:23 PM	5.373	16966	105.20	290.1 → 105...	7136.56	Benzylecgonine-D8	298.2 → 171...	5.350	5532								
Carbamazepine	237.1 → 193...	8/7/2017 5:23 PM	6.137	27437	56.97	237.1 → 194...	909.52	Carbamazepine-13C6	243.1 → 200...	6.136	1275123								
Chlordiazepoxide	300.1 → 227...	8/7/2017 5:23 PM	6.596	45796	43.18	300.1 → 282...	Infinity	Chlordiazepoxide-D5	305.1 → 286...	6.575	318666								
Clomipramine	315.2 → 86.2	8/7/2017 5:23 PM	6.593	408535	1096.08	315.2 → 58.3	Infinity	Clomipramine-D3	318.2 → 89.2	6.593	1959768								
Cocaine	304.2 → 182...	8/7/2017 5:23 PM	5.615	177610	420.74	304.2 → 105...	74.75	Cocaine-D3	307.2 → 185...	5.615	760865								
Desipramine	267.2 → 72.3	8/7/2017 5:23 PM	6.357	316658	Infinity	267.2 → 44.3	Infinity	Desipramine-D3	270.2 → 75.3	6.357	1448722								
Doxepin	280.2 → 107...	8/7/2017 5:23 PM	6.151	138125	589.74	280.2 → 77.2	70.98	Doxepin-D3	283.2 → 107...	6.150	621000								
Estazolam	295.1 → 267...	8/7/2017 5:23 PM	6.414	64406	177.93	295.1 → 205...	11047...	Estazolam-D5	300.1 → 272...	6.392	297614								
Flunitrazepam	314.1 → 288...	8/7/2017 5:23 PM	6.431	58661	1139.1...	314.1 → 239...	104.64	Flunitrazepam-D7	321.1 → 245...	6.430	10135								
Flurazepam	388.2 → 315...	8/7/2017 5:23 PM	6.141	176219	432.13	388.2 → 317...	83.37	Zopiclone-D4	393.1 → 244...	5.978	301280								
Imipramine	281.2 → 86.2	8/7/2017 5:23 PM	6.376	430932	3125.79	281.2 → 58.3	Infinity	Imipramine-D3	284.2 → 61.3	6.375	1162946								
Levamisole	205.1 → 91.2	8/7/2017 5:23 PM	5.001	55890	Infinity	205.1 → 178...	Infinity	Cocaine-D3	307.2 → 185...	5.615	760865								
Maprotiline	278.2 → 91.2	8/7/2017 5:23 PM	6.091	171720	766.28	278.2 → 117...	Infinity	Meperidine-D4	252.2 → 224...	5.645	343183								
MDA	180.1 → 163...	8/7/2017 5:23 PM	5.004	66791	Infinity	180.1 → 105...	Infinity	MDA-D5	185.1 → 168...	5.003	335363								
MDEA	208.1 → 163...	8/7/2017 5:23 PM	5.283	114340	473.02	208.1 → 105...	Infinity	MDEA-D6	214.2 → 166...	5.282	568971								
MDMA	194.1 → 163...	8/7/2017 5:23 PM	5.123	116197	Infinity	194.1 → 105...	Infinity	MDMA-D6	200.2 → 166...	5.123	56630								
Meperidine	248.2 → 220...	8/7/2017 5:23 PM	5.646	63619	355.76	248.2 → 174...	Infinity	Meperidine-D4	252.2 → 224...	5.645	343183								
Methyphenidate	234.2 → 84.2	8/7/2017 5:23 PM	5.566	329546	Infinity	234.2 → 56.3	Infinity	Meperidine-D4	252.2 → 224...	5.645	343183								
Metoprolol	268.2 → 116...	8/7/2017 5:23 PM	5.479	33733	71.01	268.2 → 56.3	187.19	Meperidine-D4	252.2 → 224...	5.645	343183								
Midazolam	266.1 → 223...	8/7/2017 5:23 PM	6.571	34936	744.38	266.1 → 249...	7098.04	Midazolam-D4	330.1 → 295...	6.570	508520								
Mirtazapine	326.2 → 195...	8/7/2017 5:23 PM	5.828	163555	Infinity	326.2 → 72.3	797.96	Midazolam-D4	330.1 → 295...	6.570	508520								
Mitragynine	399.2 → 174...	8/7/2017 5:23 PM	6.140	70602	648.17	399.2 → 238...	132.66	Carbamazepine-13C6	243.1 → 200...	6.136	1275123								
Normeperidine	234.1 → 42.3	8/7/2017 5:23 PM	5.648	85041	Infinity	234.1 → 160...	Infinity	Normeperidine-D4	238.2 → 164...	5.647	322746								
Norpropoxyphene	326.2 → 44.3	8/7/2017 5:23 PM	6.225	54142	335.39	326.2 → 252...	4352.68	Norpropoxyphene-D5	331.2 → 44.3	6.225	243985								
Nortriptyline	264.2 → 91.2	8/7/2017 5:23 PM	6.358	114344	Infinity	264.2 → 233...	Infinity	Nortriptyline-D3	267.2 → 233...	6.378	426075								
Ondansetron	294.2 → 184...	8/7/2017 5:23 PM	5.802	104170	21325...	294.2 → 212...	206.16	Pentazocine-13C3	289.2 → 72.3	5.699	496008								
Pentazocine	286.2 → 218...	8/7/2017 5:23 PM	5.700	133710	1088.95	286.2 → 41.3	Infinity	Pentazocine-13C3	289.2 → 72.3	5.699	496008								
Phenazepam	349.0 → 206...	8/7/2017 5:23 PM	6.508	67585	12762...	349.0 → 183...	141.22	Phenazepam-D4	353.0 → 183...	6.487	22638								
Phencyclidine	244.2 → 86.2	8/7/2017 5:23 PM	5.932	198487	186.85	244.2 → 91.1	81.19	Phencyclidine-D5	249.2 → 86.2	5.932	1075246								
Phenytol	253.1 → 104...	8/7/2017 5:23 PM	6.074	4372	6245.74	253.1 → 182...	14.94	Phenytol-D10	263.2 → 192...	6.053	18122								
Praxepam	325.1 → 271...	8/7/2017 5:23 PM	6.937	292315	1243.53	325.1 → 140...	267.97	Praxepam-D5	330.1 → 276...	6.935	1195109								
Primidone	219.1 → 91.2	8/7/2017 5:23 PM	5.425	10030	19.41	219.1 → 162...	21.73	Praxepam-D5	330.1 → 276...	6.935	1195109								
Propoxyphene	340.2 → 58.3	8/7/2017 5:23 PM	6.245	305032	Infinity	340.2 → 266...	68.24	Propoxyphene-D11	351.3 → 277...	6.223	342183								
Proprietyline	264.2 → 155...	8/7/2017 5:23 PM	6.297	707998	2684.73	264.2 → 161...	Infinity	Nortriptyline-D3	267.2 → 233...	6.378	426075								
Pseudoephedrine	166.1 → 148...	8/7/2017 5:23 PM	4.661	12619...	442.07	166.1 → 133...	254.64	Pseudoephedrine-D3	169.1 → 151...	4.660	560356								
Tapentadol	222.2 → 107...	8/7/2017 5:23 PM	5.486	168158	Infinity	222.2 → 121...	38942...	Tapentadol-D3	225.2 → 107...	5.485	820994								
Trimipramine	295.2 → 100...	8/7/2017 5:23 PM	6.434	488616	604.61	295.2 → 58.3	477.70	Trimipramine-D3	298.2 → 103...	6.434	2313813								
Verapamil	455.3 → 165...	8/7/2017 5:23 PM	6.200	229844	7157.17	455.3 → 150...	192.81	Trimipramine-D3	298.2 → 103...	6.434	2313813								
Zaleplon	306.1 → 236...	8/7/2017 5:23 PM	6.248	67381	86.20	306.1 → 264...	968.18	Zaleplon-D4	310.2 → 240...	6.227	252531								
Zopiclone	389.1 → 244...	8/7/2017 5:23 PM	5.978	65658	320.48	389.1 → 216...	3764.49	Zopiclone-D4	393.1 → 244...	5.978	301280								

Compound Method			p2 negative			p2 negative Results			Qualifier 1 M...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Qualif...	Name	Transition	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	8/7/2017 5:42 PM					284.1 -> 93.2				7-aminoflunitrazepam-D7	291.2 -> 138...	5.740	268051		
alpha-hydroxyimidazolam	342.1 -> 324...	8/7/2017 5:42 PM					342.1 -> 203...				alpha-hydroxyimidazolam...	346.1 -> 328...	6.447	447402		
Amitriptyline	278.2 -> 91.2	8/7/2017 5:42 PM					278.2 -> 105...				Amitriptyline-D3	281.2 -> 91.2	6.396	455327		
Amoxapine	314.1 -> 271...	8/7/2017 5:42 PM					314.1 -> 193...				Amitriptyline-D3	281.2 -> 91.2	6.396	455327		
Benzoyllecgonine	290.1 -> 168...	8/7/2017 5:42 PM					290.1 -> 105...				Benzoyllecgonine-D8	298.2 -> 171...	5.350	6310		
Carbamazepine	237.1 -> 193...	8/7/2017 5:42 PM					237.1 -> 194...				Carbamazepine-13C6	243.1 -> 200...	6.136	12411...		
Chlordiazepoxide	300.1 -> 227...	8/7/2017 5:42 PM					300.1 -> 282...				Chlordiazepoxide-D5	305.1 -> 286...	6.575	311524		
Clomipramine	315.2 -> 86.2	8/7/2017 5:42 PM					315.2 -> 58.3				Clomipramine-D3	318.2 -> 89.2	6.593	17478...		
Cocaine	304.2 -> 182...	8/7/2017 5:42 PM					304.2 -> 105...				Cocaine-D3	307.2 -> 185...	5.615	686691		
Desipramine	267.2 -> 72.3	8/7/2017 5:42 PM					267.2 -> 44.3				Desipramine-D3	270.2 -> 75.3	6.336	13748...		
Doxepin	280.2 -> 107...	8/7/2017 5:42 PM					280.2 -> 77.2				Doxepin-D3	283.2 -> 107...	6.150	586423		
Estazolam	295.1 -> 267...	8/7/2017 5:42 PM					295.1 -> 205...				Estazolam-D5	300.1 -> 272...	6.392	294193		
Flunitrazepam	314.1 -> 268...	8/7/2017 5:42 PM					314.1 -> 239...				Flunitrazepam-D7	321.1 -> 245...	6.430	9804		
Flurazepam	388.2 -> 315...	8/7/2017 5:42 PM					388.2 -> 317...				Zopiclone-D4	393.1 -> 244...	5.958	254048		
Imipramine	281.2 -> 86.2	8/7/2017 5:42 PM					281.2 -> 58.3				Imipramine-D3	284.2 -> 61.3	6.354	10633...		
Levamisole	205.1 -> 91.2	8/7/2017 5:42 PM					205.1 -> 178...				Cocaine-D3	307.2 -> 185...	5.615	686691		
Maprotiline	278.2 -> 91.2	8/7/2017 5:42 PM					278.2 -> 117...				Meperidine-D4	252.2 -> 224...	5.624	309172		
MDA	180.1 -> 163...	8/7/2017 5:42 PM					180.1 -> 105...				MDA-D5	185.1 -> 168...	5.003	306452		
MDEA	208.1 -> 163...	8/7/2017 5:42 PM					208.1 -> 105...				MDEA-D6	214.2 -> 166...	5.282	514296		
MDMA	194.1 -> 163...	8/7/2017 5:42 PM					194.1 -> 105...				MDMA-D6	200.2 -> 166...	5.123	54139		
Meperidine	248.2 -> 220...	8/7/2017 5:42 PM					248.2 -> 174...				Meperidine-D4	252.2 -> 224...	5.624	309172		
Methyphenidate	234.2 -> 84.2	8/7/2017 5:42 PM					234.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.624	309172		
Metoprolol	268.2 -> 116...	8/7/2017 5:42 PM					268.2 -> 56.3				Meperidine-D4	252.2 -> 224...	5.624	309172		
Midazolam	326.1 -> 223...	8/7/2017 5:42 PM					326.1 -> 249...				Midazolam-D4	330.1 -> 295...	6.570	461642		
Mirtazapine	266.2 -> 195...	8/7/2017 5:42 PM					266.2 -> 72.3				Midazolam-D4	330.1 -> 295...	6.570	461642		
Mitragynine	399.2 -> 174...	8/7/2017 5:42 PM					399.2 -> 238...				Carbamazepine-13C6	243.1 -> 200...	6.136	12411...		
Normeperidine	234.1 -> 42.3	8/7/2017 5:42 PM					234.1 -> 160...				Normeperidine-D4	238.2 -> 164...	5.647	300649		
Norpropoxyphene	326.2 -> 44.3	8/7/2017 5:42 PM					326.2 -> 252...				Norpropoxyphene-D5	331.2 -> 44.3	6.225	215061		
Nortriptyline	264.2 -> 91.2	8/7/2017 5:42 PM	6.542	2152			264.2 -> 233...	0.54			Nortriptyline-D3	267.2 -> 233...	6.378	476746		
Ondansetron	294.2 -> 184...	8/7/2017 5:42 PM					294.2 -> 212...				Pentazocine-13C3	289.2 -> 72.3	5.699	455210		
Pentazocine	286.2 -> 218...	8/7/2017 5:42 PM					286.2 -> 41.3				Pentazocine-13C3	289.2 -> 72.3	5.699	455210		
Phenazepam	349.0 -> 206...	8/7/2017 5:42 PM	6.447	2486			349.0 -> 183...		14.17		Phenazepam-D4	353.0 -> 183...	6.487	20736		
Phencyclidine	244.2 -> 86.2	8/7/2017 5:42 PM					244.2 -> 91.1				Phencyclidine-D5	249.2 -> 86.2	5.932	979746		
Phenylethylamine	253.1 -> 104...	8/7/2017 5:42 PM					253.1 -> 182...				Phenylethylamine-D10	263.2 -> 192...	6.033	16383		
Praxopram	325.1 -> 271...	8/7/2017 5:42 PM					325.1 -> 140...				Praxopram-D5	330.1 -> 276...	6.935	11068...		
Primidone	219.1 -> 91.2	8/7/2017 5:42 PM	5.568	2796			219.1 -> 162...	1.05			Praxopram-D5	330.1 -> 276...	6.935	11068...		
Propoxyphene	340.2 -> 58.3	8/7/2017 5:42 PM					340.2 -> 266...				Propoxyphene-D11	351.3 -> 277...	6.223	312037		
Protriptyline	264.2 -> 155...	8/7/2017 5:42 PM					264.2 -> 161...				Nortriptyline-D3	267.2 -> 233...	6.378	476746		
Pseudoephedrine	166.1 -> 148...	8/7/2017 5:42 PM					166.1 -> 133...				Pseudoephedrine-D3	169.1 -> 151...	4.660	541440		
Tapentadol	222.2 -> 107...	8/7/2017 5:42 PM					222.2 -> 121...				Tapentadol-D3	225.2 -> 107...	5.485	757989		
Trimipramine	295.2 -> 100...	8/7/2017 5:42 PM					295.2 -> 58.3				Trimipramine-D3	298.2 -> 103...	6.434	21247...		
Verapamil	455.3 -> 165...	8/7/2017 5:42 PM					455.3 -> 150...				Trimipramine-D3	298.2 -> 103...	6.434	21247...		
Zaleplon	306.1 -> 236...	8/7/2017 5:42 PM					306.1 -> 264...				Zaleplon-D4	310.2 -> 240...	6.227	244164		
Zopiclone	389.1 -> 244...	8/7/2017 5:42 PM					389.1 -> 216...				Zopiclone-D4	393.1 -> 244...	5.958	254048		

Compound Method		p2 external control		p2 external control Results			Qualifier 1 M...		Qualifier 1...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	MI	S/N	Transition	MI	S/N	Name	Transition	RT	Resp.	
7-amino-flunitrazepam	284.1 → 135...	8/8/2017 8:54 AM					284.1 → 93.2			7-amino-flunitrazepam-D7	291.2 → 138...	5.740	232153	
alpha-hydroxymidazolam	342.1 → 324...	8/8/2017 8:54 AM					342.1 → 203...			alpha-hydroxymidazolam...	346.1 → 328...	6.447	391574	
Amtriptiline	278.2 → 91.2	8/8/2017 8:54 AM	6.417	14076...		Infinity	278.2 → 105...			Amtriptiline-D3	281.2 → 91.2	6.416	439951	
Amoxapine	314.1 → 271...	8/8/2017 8:54 AM					314.1 → 193...			Amtriptiline-D3	281.2 → 91.2	6.416	439951	
Benzoyllecgonine	290.1 → 168...	8/8/2017 8:54 AM					290.1 → 105...			Benzoyllecgonine-D8	298.2 → 171...	5.350	4553	
Carbamazepine	237.1 → 193...	8/8/2017 8:54 AM					237.1 → 194...			Carbamazepine-13C6	243.1 → 200...	6.136	10132...	
Chlordiazepoxide	300.1 → 227...	8/8/2017 8:54 AM					300.1 → 282...			Chlordiazepoxide-D5	305.1 → 286...	6.575	299770	
Clomipramine	315.2 → 86.2	8/8/2017 8:54 AM					315.2 → 58.3			Clomipramine-D3	318.2 → 89.2	6.613	16343...	
Cocaine	304.2 → 182...	8/8/2017 8:54 AM					304.2 → 105...			Cocaine-D3	307.2 → 185...	5.615	606797	
Desipramine	267.2 → 72.3	8/8/2017 8:54 AM					267.2 → 44.3			Desipramine-D3	270.2 → 75.3	6.357	12703...	
Doxepin	280.2 → 107...	8/8/2017 8:54 AM	6.396	2169		15.44	280.2 → 77.2			Doxepin-D3	283.2 → 107...	6.150	537651	
Estazolam	295.1 → 267...	8/8/2017 8:54 AM					295.1 → 205...			Estazolam-D5	300.1 → 272...	6.392	246238	
Flunitrazepam	314.1 → 268...	8/8/2017 8:54 AM					314.1 → 239...			Flunitrazepam-D7	321.1 → 245...	6.430	10536	
Flurazepam	388.2 → 315...	8/8/2017 8:54 AM					388.2 → 317...			Zopiclone-D4	393.1 → 244...	5.998	132558	
Imipramine	281.2 → 86.2	8/8/2017 8:54 AM					281.2 → 58.3			Imipramine-D3	284.2 → 61.3	6.375	984218	
Levamisole	205.1 → 91.2	8/8/2017 8:54 AM					205.1 → 178...			Cocaine-D3	307.2 → 185...	5.615	606797	
Maprotiline	278.2 → 91.2	8/8/2017 8:54 AM					278.2 → 117...			Meperidine-D4	252.2 → 224...	5.645	257300	
MDA	180.1 → 163...	8/8/2017 8:54 AM					180.1 → 105...			MDA-D5	185.1 → 168...	5.023	237412	
MDEA	208.1 → 163...	8/8/2017 8:54 AM					208.1 → 105...			MDEA-D6	214.2 → 166...	5.282	431642	
MDMA	194.1 → 163...	8/8/2017 8:54 AM					194.1 → 105...			MDMA-D6	200.2 → 166...	5.143	47020	
Meperidine	248.2 → 220...	8/8/2017 8:54 AM					248.2 → 174...			Meperidine-D4	252.2 → 224...	5.645	257300	
Methyphenidate	234.2 → 84.2	8/8/2017 8:54 AM					234.2 → 56.3			Meperidine-D4	252.2 → 224...	5.645	257300	
Metoprolol	268.2 → 116...	8/8/2017 8:54 AM					268.2 → 56.3			Meperidine-D4	252.2 → 224...	5.645	257300	
Midazolam	326.1 → 223...	8/8/2017 8:54 AM					326.1 → 249...			Midazolam-D4	330.1 → 295...	6.570	390780	
Mirtazapine	266.2 → 195...	8/8/2017 8:54 AM	5.869	12484...		3146.73	266.2 → 72.3		Infinity	Midazolam-D4	330.1 → 295...	6.570	390780	
Mirtagynine	399.2 → 174...	8/8/2017 8:54 AM					399.2 → 238...			Carbamazepine-13C6	243.1 → 200...	6.136	10132...	
Normeperidine	234.1 → 42.3	8/8/2017 8:54 AM					234.1 → 160...			Normeperidine-D4	238.2 → 164...	5.647	230348	
Norpropoxyphene	326.2 → 44.3	8/8/2017 8:54 AM					326.2 → 252...			Norpropoxyphene-D5	331.2 → 44.3	6.225	140962	
Nortriptyline	264.2 → 91.2	8/8/2017 8:54 AM					264.2 → 233...			Nortriptyline-D3	267.2 → 233...	6.398	409412	
Ondansetron	294.2 → 184...	8/8/2017 8:54 AM					294.2 → 212...			Pentazocine-13C3	289.2 → 72.3	5.699	459197	
Pentazocine	286.2 → 218...	8/8/2017 8:54 AM					286.2 → 41.3			Pentazocine-13C3	289.2 → 72.3	5.699	459197	
Phenazepam	349.0 → 206...	8/8/2017 8:54 AM	6.447	2268		37.31	349.0 → 183...			Phenazepam-D4	353.0 → 183...	6.487	20268	
Phencyclidine	244.2 → 86.2	8/8/2017 8:54 AM					244.2 → 91.1			Phencyclidine-D5	249.2 → 86.2	5.932	798569	
Phenyltoin	253.1 → 104...	8/8/2017 8:54 AM					253.1 → 182...			Phenyltoin-D10	263.2 → 192...	6.053	9454	
Przepam	325.1 → 271...	8/8/2017 8:54 AM	5.588	2426		0.90	325.1 → 140...			Przepam-D5	330.1 → 276...	6.935	889727	
Primidone	219.1 → 91.2	8/8/2017 8:54 AM					219.1 → 162...			Przepam-D5	330.1 → 276...	6.935	889727	
Propoxyphene	340.2 → 58.3	8/8/2017 8:54 AM					340.2 → 286...			Propoxyphene-D11	351.3 → 277...	6.243	276621	
Propriptyline	264.2 → 155...	8/8/2017 8:54 AM					264.2 → 161...			Nortriptyline-D3	267.2 → 233...	6.398	409412	
Pseudoephedrine	166.1 → 148...	8/8/2017 8:54 AM					166.1 → 133...			Pseudoephedrine-D3	169.1 → 151...	4.660	464301	
Tapentadol	222.2 → 107...	8/8/2017 8:54 AM					222.2 → 121...			Tapentadol-D3	225.2 → 107...	5.485	664593	
Trimipramine	295.2 → 100...	8/8/2017 8:54 AM					295.2 → 58.3			Trimipramine-D3	298.2 → 103...	6.454	19275...	
Verapamil	455.3 → 165...	8/8/2017 8:54 AM					455.3 → 150...			Trimipramine-D3	298.2 → 103...	6.454	19275...	
Zaleplon	306.1 → 236...	8/8/2017 8:54 AM					306.1 → 264...			Zaleplon-D4	310.2 → 240...	6.227	198753	
Zopiclone	389.1 → 244...	8/8/2017 8:54 AM					389.1 → 216...			Zopiclone-D4	393.1 → 244...	5.998	132558	

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

Extraction Date: 8-7-17

Analyst: Anne Nord

PRE-ANALYTIC

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

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

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: 8717 can 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 - Cd'A

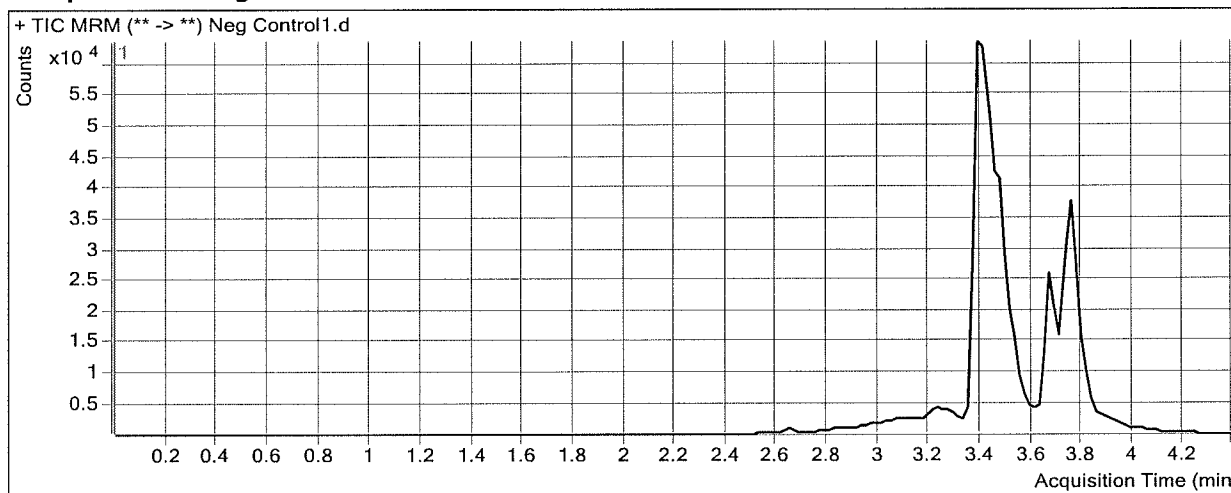
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 16:28 **Data File** Neg Control1.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position p1a2 **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	3.546	16060	101185	0.1587	0.4340

ISP FORENSICS - Cd'A

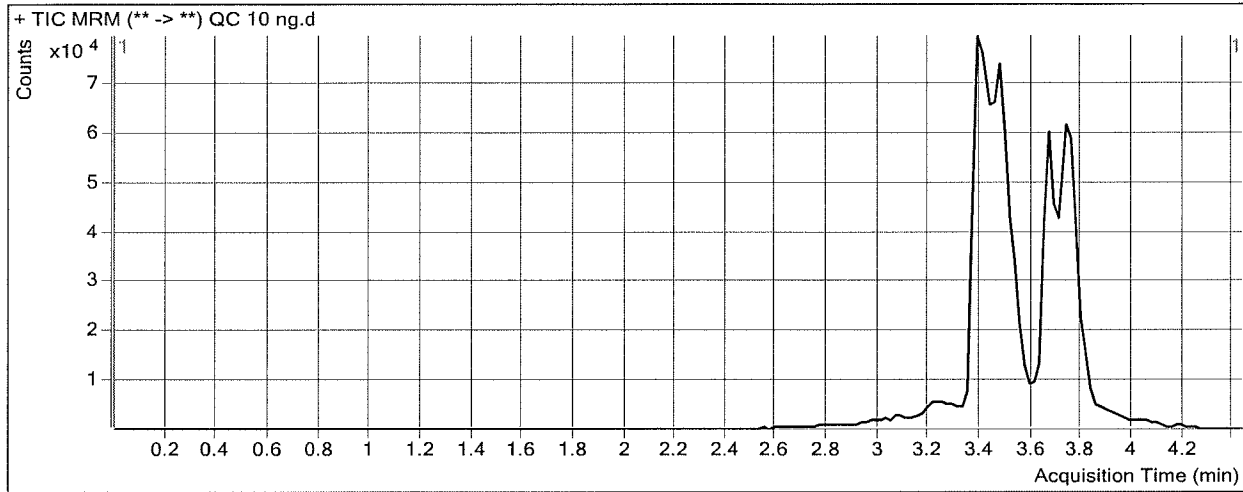
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 12:24 **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	30268	370423	0.0817	10.2571
THC-COOH	3.526	56839	163727	0.3472	9.5284
THC	3.740	7408	81943	0.0904	10.1988

ISP FORENSICS - Cd'A

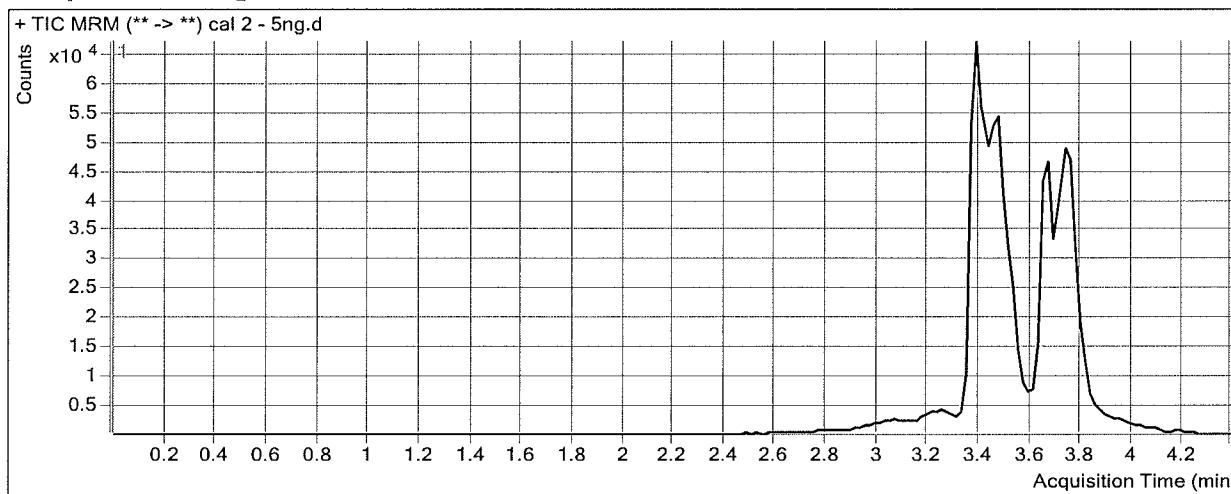
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 11:37 **Data File** cal 2 - 5ng.d
Sample Type Calibration **Sample Name** cal 2 - 5ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-B1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	12729	304347	0.0418	5.8040
THC-COOH	3.526	37928	145148	0.2613	5.3850
THC	3.740	3478	74774	0.0465	5.4738

ISP FORENSICS - Cd'A

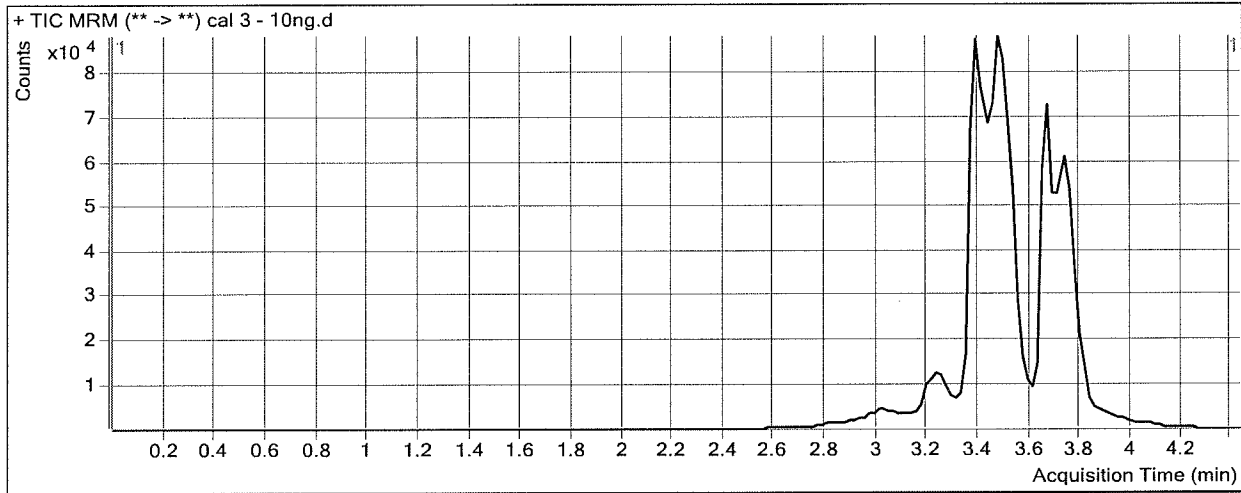
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 11:43 **Data File** cal 3 - 10ng.d
Sample Type Calibration **Sample Name** cal 3 - 10ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-C1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	30688	415573	0.0738	9.3789
THC-COOH	3.526	83590	238602	0.3503	9.6814
THC	3.740	7430	81046	0.0917	10.3352

ISP FORENSICS - Cd'A

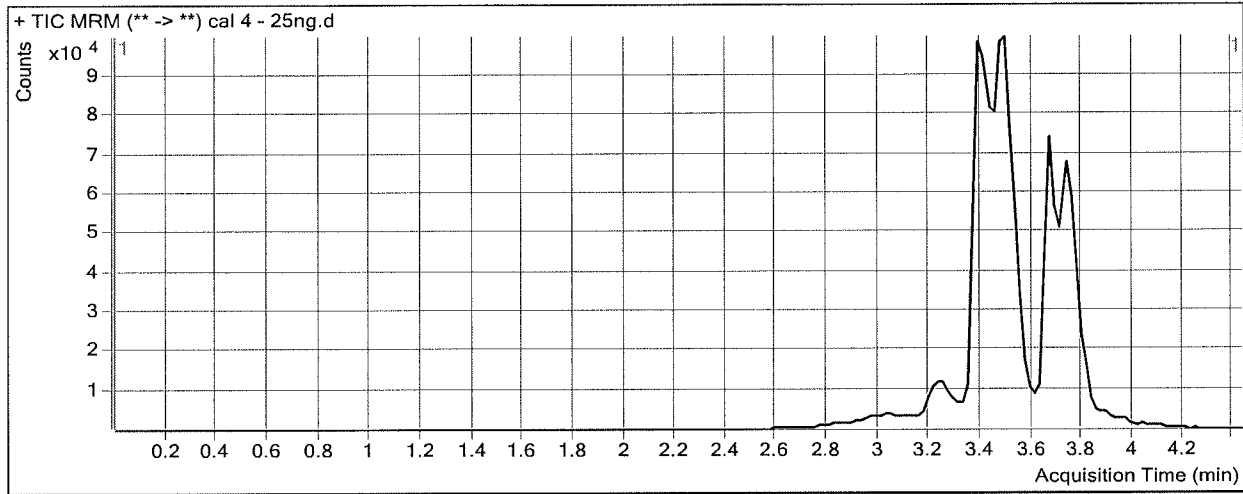
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 11:50 **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	87971	420280	0.2093	24.5032
THC-COOH	3.486	126162	189065	0.6673	24.9787
THC	3.740	17025	77035	0.2210	24.2561

ISP FORENSICS - Cd'A

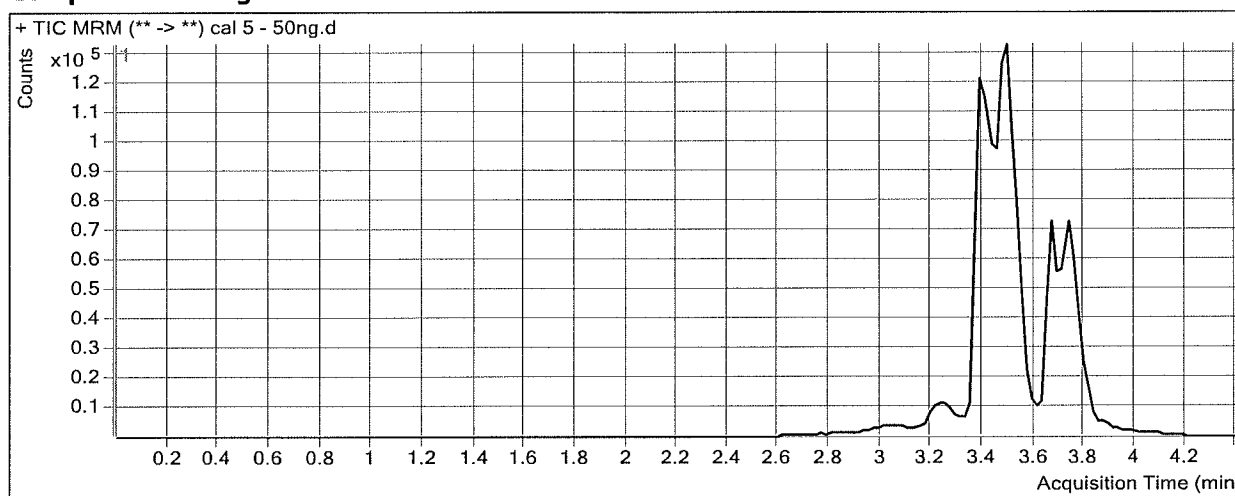
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 11:57 **Data File** cal 5 - 50ng.d
Sample Type Calibration **Sample Name** cal 5 - 50ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	178755	432783	0.4130	47.2473
THC-COOH	3.486	222245	189066	1.1755	49.5053
THC	3.740	35521	81016	0.4384	47.6633

ISP FORENSICS - Cd'A

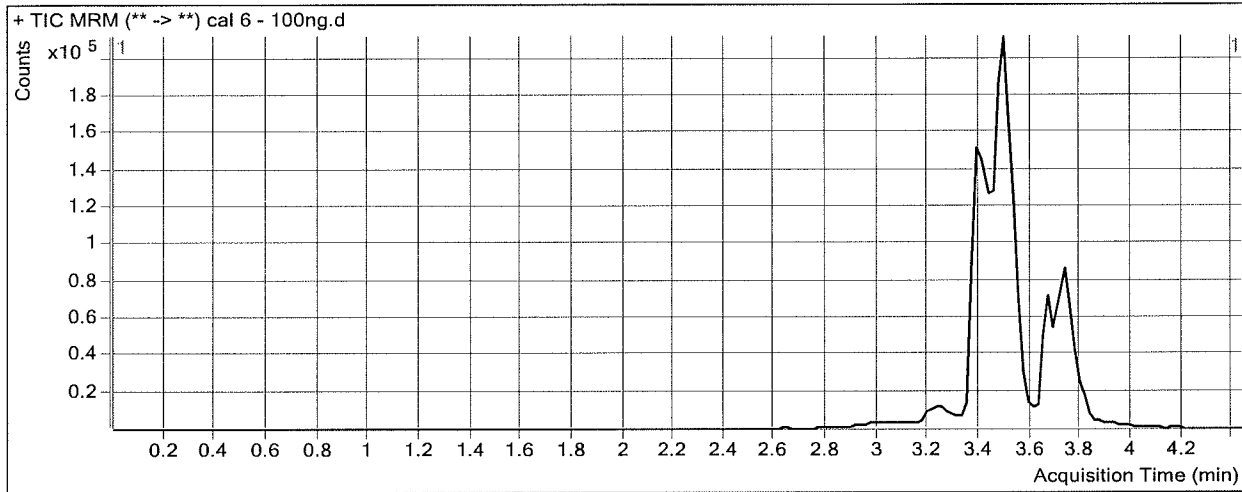
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 12:03 **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	353854	425430	0.8318	93.9944
THC-COOH	3.486	423853	202148	2.0967	93.9670
THC	3.740	65320	78661	0.8304	89.8543

ISP FORENSICS - Cd'A

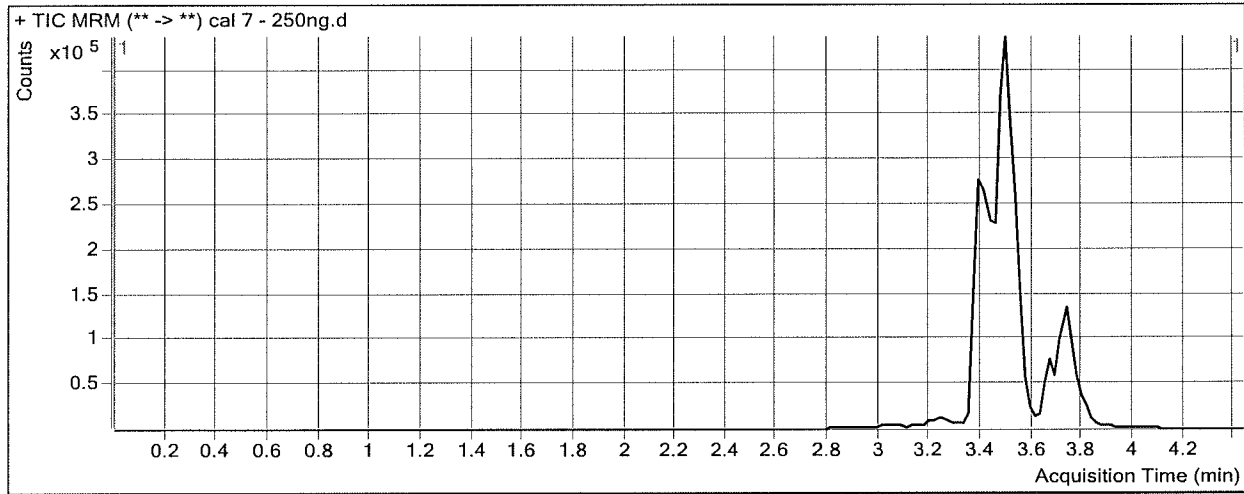
Cannabinoid Screen Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin
Analysis Time 8/10/2017 7:52 AM **Analyst Name** ISP Tox
Report Time 8/10/2017 7:54 AM **Reporter Name** ISP Tox
Last Calib Update 8/10/2017 7:52 AM **Batch State** Processed

Analysis Info

Acq Time 2017-08-07 12:11 **Data File** cal 7 - 250ng.d
Sample Type Calibration **Sample Name** cal 7 - 250ng
Dilution 1 **Acq Method** Screen THC 8-2017.m
Position P1-G1 **Sample Info**
Inj Vol -1 **Comment** AM 26 Cannabinoid screen

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	967241	418651	2.3104	259.0721
THC-COOH	3.486	1039522	190246	5.4641	256.4825
THC	3.740	192410	79067	2.4335	262.4173

ISP Forensics Calibration Curve Report

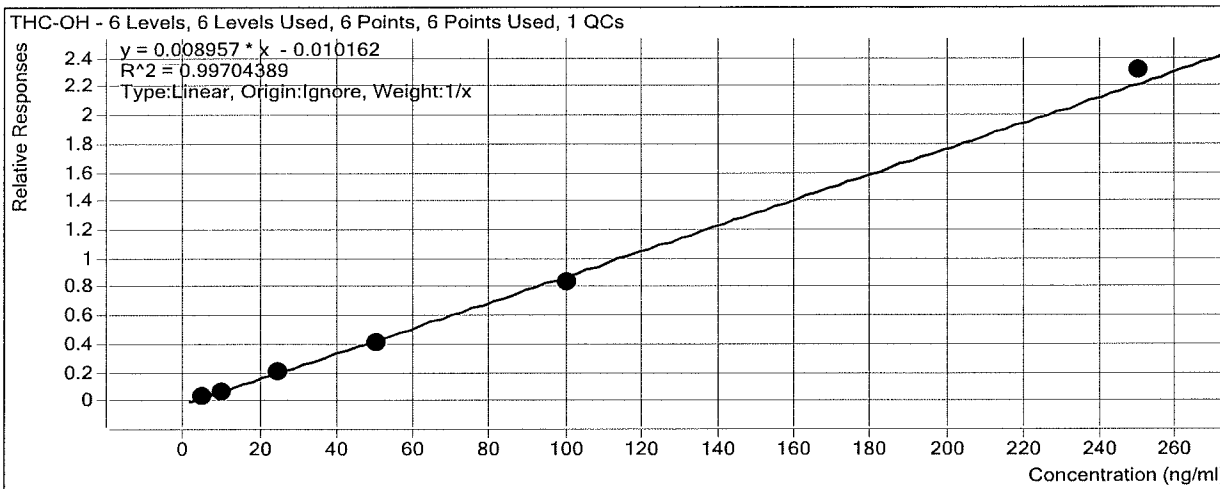
Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin

Last Calib Update 8/10/2017 7:52 AM

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	116.1
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.4	93.8
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.3	102.6
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.5	98.0
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	47.2	94.5
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	94.0	94.0
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	259.1	103.6

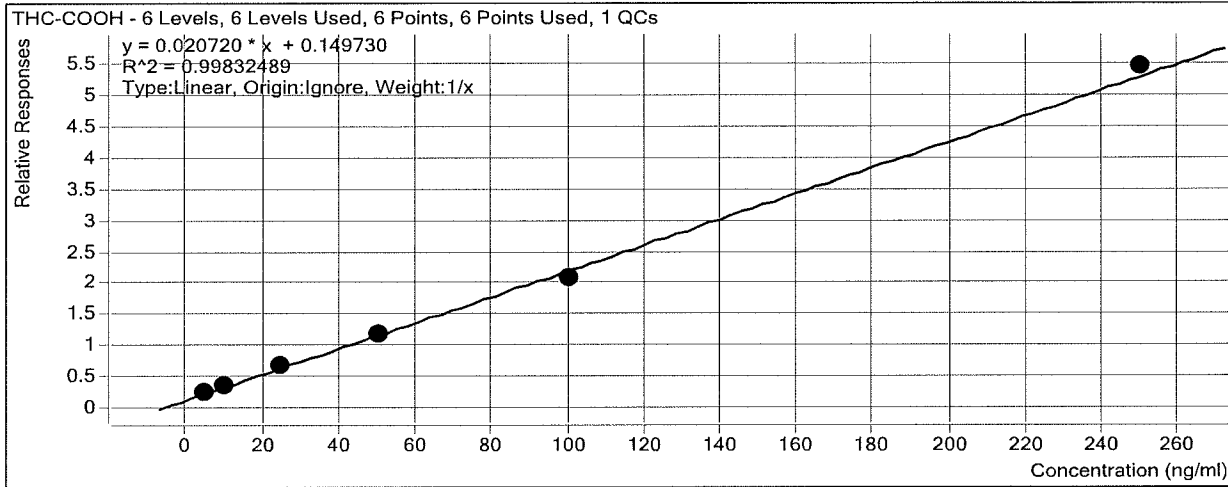
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin

Last Calib Update 8/10/2017 7:52 AM

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	5.4	107.7
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	9.7	96.8
QC 10 ng	3	<input checked="" type="checkbox"/>	10	9.5	95.3
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	25.0	99.9
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	49.5	99.0
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	94.0	94.0
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	256.5	102.6

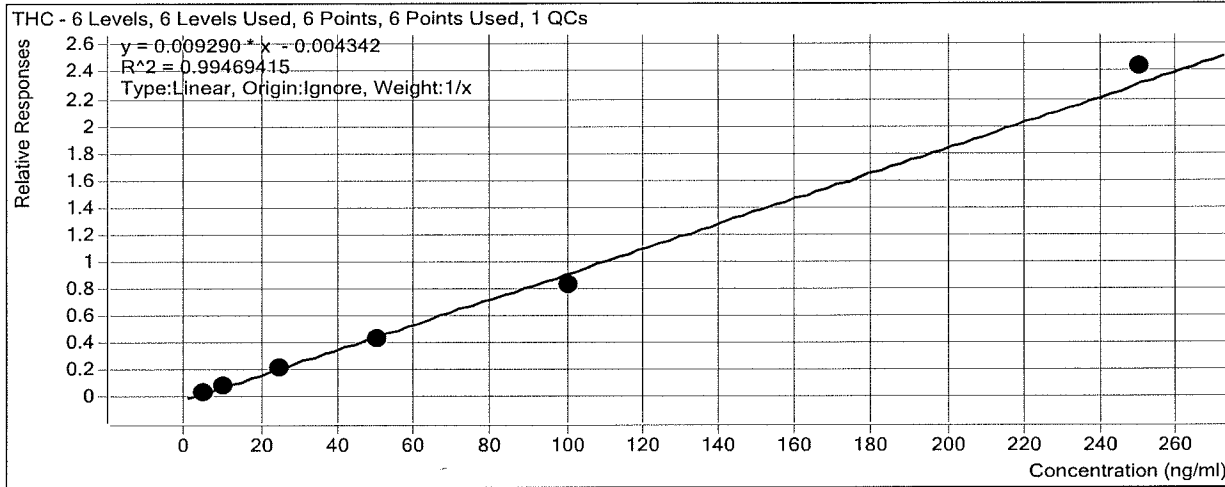
ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\8717 blood screen AM 26\QuantResults\8717 cann screen.batch.bin

Last Calib Update 8/10/2017 7:52 AM

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	5.5	109.5
cal 3 - 10ng	3	<input checked="" type="checkbox"/>	10	10.3	103.4
QC 10 ng	3	<input checked="" type="checkbox"/>	10	10.2	102.0
cal 4 - 25ng	4	<input checked="" type="checkbox"/>	25	24.3	97.0
cal 5 - 50ng	5	<input checked="" type="checkbox"/>	50	47.7	95.3
cal 6 - 100ng	6	<input checked="" type="checkbox"/>	100	89.9	89.9
cal 7 - 250ng	7	<input checked="" type="checkbox"/>	250	262.4	105.0