

*B. Wylie*

**Worklist: 1481**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2016-4222	1	74158	AM 25/AM 26 Blood MultiDrug/	
M2016-4425	1	74159	AM 25/AM 26 Blood MultiDrug/	
M2016-4546	1	74160	AM 25/AM 26 Blood MultiDrug/	
M2016-4711	3	74161	AM 25/AM 26 Blood MultiDrug/	
M2016-4881	3	74162	AM 25/AM 26 Blood MultiDrug/	
M2016-4958	1	74163	AM 25/AM 26 Blood MultiDrug/	
M2016-5244	2	74176	AM 25/AM 26 Blood MultiDrug/	
P2016-2292	1	74164	AM 25/AM 26 Blood MultiDrug/	
P2016-2357	1	74165	AM 25/AM 26 Blood MultiDrug/	
P2016-2416	1	74166	AM 25/AM 26 Blood MultiDrug/	
P2016-2456	1	74167	AM 25/AM 26 Blood MultiDrug/	
P2016-2472	1	74168	AM 25/AM 26 Blood MultiDrug/	
P2016-2521	1	74169	AM 25/AM 26 Blood MultiDrug/	
P2016-2588	1	74170	AM 25/AM 26 Blood MultiDrug/	
P2016-2589	1	74171	AM 25/AM 26 Blood MultiDrug/	
P2016-2663	1	74172	AM 25/AM 26 Blood MultiDrug/	
P2016-2760	1	74173	AM 25/AM 26 Blood MultiDrug/	
P2016-2763	1	74174	AM 25/AM 26 Blood MultiDrug/	
P2016-2804	1	74175	AM 25/AM 26 Blood MultiDrug/	



**Worklist: 1486**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
M2016-4114	1	74346	AM 25 Blood Multi-Drug Screer
M2016-4195	1	74345	AM 25 Blood Multi-Drug Screer
P2016-2653	1	74344	AM 25 Blood Multi-Drug Screer



A handwritten signature in black ink, consisting of a stylized, cursive letter 'A' with a horizontal line extending to the right.

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

Extraction Date: 1-12-17

Analyst: Anne Nord

## PRE-ANALYTIC

Plate Lot# 0495940

Plate. Exp. 12/12/2017

1. Ensure all solutions are within expiration date.

- Mobile Phase A: **10mM Amm Formate**
- Mobile Phase B **0.1% FA in MeOH**
- Blank/Negative Blood: Lot **321623-1**
- **0.5M Ammonium Hydroxide**
- Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**
- **Ethyl Acetate**

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

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

✓ 4. Create worklist. Data path name: 1-12-17 AMN 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: 01/21/17 multdrug screen a

✓ 2. Make any necessary integration changes.

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

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

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

COMMENTS:

Compound Method			p1 cal 1a			p1 cal 1a Results			Qualifier 1 M...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.		
6-MAM	328.2 -> 165...	1/12/2017 8:17 PM	P2-B1	5.094	2002	8.57	328.2 -> 211...	7.23	328.2 -> 165...	7.23	6-MAM-D6	334.2 -> 165...	5.053	60073		
7-aminoclonazepam	286.1 -> 121...	1/12/2017 8:17 PM	P2-B1	5.607	40917	108.71	286.1 -> 222...	131.59	286.1 -> 222...	131.59	7-Aminoclonazepam-D4	290.1 -> 121...	5.585	165990		
Acetyl Fentanyl	323.2 -> 105...	1/12/2017 8:17 PM	P2-B1	5.928	22188	28.99	323.2 -> 188...	51.90	323.2 -> 188...	51.90	Acetyl Fentanyl-D5	328.2 -> 105...	5.906	13820...		
Acetyl Norfentanyl	219.1 -> 84.2	1/12/2017 8:17 PM	P2-B1	4.987	9954	141.99	219.1 -> 56.3	9.60	219.1 -> 56.3	9.60	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.966	541985		
a-hydroxyalprazolam	325.1 -> 297...	1/12/2017 8:17 PM	P2-B1	6.457	8757	31.21	325.1 -> 215...	32.24	325.1 -> 215...	32.24	a-hydroxyalprazolam-D5	330.1 -> 302...	6.456	37817		
alpha-PVP	232.2 -> 91.0	1/12/2017 8:17 PM	P2-B1	5.655	154199	435.34	232.2 -> 77.1	41.61	232.2 -> 77.1	41.61	alpha-PVP-d8	240.2 -> 91.1	5.654	665363		
Alprazolam	309.1 -> 281...	1/12/2017 8:17 PM	P2-B1	6.542	63199	737.31	309.1 -> 205...	78.06	309.1 -> 205...	78.06	Alprazolam-D5	314.1 -> 286...	6.541	280064		
Amphetamine	136.1 -> 91.1	1/12/2017 8:17 PM	P2-B1	4.949	152928	16.51	136.1 -> 119...	36.08	136.1 -> 119...	36.08	Amphetamine-D11	147.2 -> 130...	4.909	155216		
Bupropion	240.1 -> 184...	1/12/2017 8:17 PM	P2-B1	5.839	135466	101.48	240.1 -> 131...	119.27	240.1 -> 131...	119.27	Ketamine-D4	242.1 -> 129...	5.592	384190		
Carisoprodol	261.2 -> 176...	1/12/2017 8:17 PM	P2-B1	6.184	86242	17.29	261.2 -> 55.3	15.67	261.2 -> 55.3	15.67	Carisoprodol-D7	268.2 -> 183...	6.183	472804		
Citalopram	325.2 -> 109...	1/12/2017 8:17 PM	P2-B1	6.151	204608	111.93	325.2 -> 262...	221.92	325.2 -> 262...	221.92	Citalopram-D6	331.2 -> 109...	6.150	943747		
Clonazepam	315.1 -> 269...	1/12/2017 8:17 PM	P2-B1	6.398	18834	56.88	315.1 -> 213...	20.35	315.1 -> 213...	20.35	Clonazepam-D4	320.1 -> 217...	6.398	28858		
Codeine	300.2 -> 215...	1/12/2017 8:17 PM	P2-B1	4.978	9867	49.50	300.2 -> 165...	41.52	300.2 -> 165...	41.52	Codeine-D6	306.2 -> 218...	4.955	50860		
Cyclobenzaprine	276.2 -> 214...	1/12/2017 8:17 PM	P2-B1	6.426	142860	305.14	276.2 -> 231...	689.23	276.2 -> 231...	689.23	Cyclobenzaprine-D3	279.2 -> 215...	6.425	684879		
Dextromethorphan	272.2 -> 171...	1/12/2017 8:17 PM	P2-B1	6.182	66342	380.96	272.2 -> 147...	156.09	272.2 -> 147...	156.09	Dextromethorphan-D3	275.2 -> 171...	6.202	323510		
Dextropropion	258.2 -> 157...	1/12/2017 8:17 PM	P2-B1	5.530	56627	159.50	258.2 -> 133...	1566.69	258.2 -> 133...	1566.69	Dextropropion-D3	261.2 -> 157...	5.529	316568		
Diazepam	285.1 -> 193...	1/12/2017 8:17 PM	P2-B1	6.769	64389	95.16	285.1 -> 153...	39.75	285.1 -> 153...	39.75	Diazepam-D5	290.1 -> 198...	6.768	282219		
Dihydrocodeine	302.2 -> 198...	1/12/2017 8:17 PM	P2-B1	4.895	32285	48.97	302.2 -> 128...	20.87	302.2 -> 128...	20.87	Dihydrocodeine-D6	308.2 -> 202...	4.874	163222		
Diphenhydramine	256.2 -> 167...	1/12/2017 8:17 PM	P2-B1	6.123	354741	161.94	256.2 -> 152...	18349...	256.2 -> 152...	18349...	Diphenhydramine-D3	259.2 -> 167...	6.123	19962...		
Doxylamine	271.2 -> 182...	1/12/2017 8:17 PM	P2-B1	5.795	319610	222.50	271.2 -> 167...	73.82	271.2 -> 167...	73.82	Doxylamine-D5	276.2 -> 187...	5.794	14935...		
EDDP	279.2 -> 235...	1/12/2017 8:17 PM	P2-B1	6.159	47354	78.99	279.2 -> 250...	38.61	279.2 -> 250...	38.61	EDDP-D3	282.2 -> 235...	6.159	22248		
Fentanyl	337.2 -> 105...	1/12/2017 8:17 PM	P2-B1	6.129	27834	72.81	337.2 -> 188...	69.89	337.2 -> 188...	69.89	Fentanyl-D5	342.3 -> 105...	6.129	13071...		
Fluoxetine	310.1 -> 44.3	1/12/2017 8:17 PM	P2-B1	6.379	299512	372.67	310.1 -> 148...	78.66	310.1 -> 148...	78.66	Fluoxetine-D6	316.2 -> 44.3	6.378	14015...		
Hydrocodone	300.2 -> 198...	1/12/2017 8:17 PM	P2-B1	5.200	41776	Infinity	300.2 -> 128...	Infinity	300.2 -> 128...	Infinity	Hydrocodone-D6	306.2 -> 202...	5.177	254802		
Hydromorphone	286.2 -> 184...	1/12/2017 8:17 PM	P2-B1	4.699	33280	87.15	286.2 -> 157...	27.16	286.2 -> 157...	27.16	Hydromorphone-D6	292.2 -> 185...	4.658	115804		
Ketamine	238.1 -> 125...	1/12/2017 8:17 PM	P2-B1	5.593	95423	7296.28	238.1 -> 220...	21.43	238.1 -> 220...	21.43	Ketamine-D4	242.1 -> 129...	5.592	384190		
Meprobamate	219.1 -> 158...	1/12/2017 8:17 PM	P2-B1	5.698	23095	8.12	219.1 -> 97.1	3.80	219.1 -> 97.1	3.80	Meprobamate-D7	226.2 -> 165...	5.677	116260		
Methadone	310.2 -> 265...	1/12/2017 8:17 PM	P2-B1	6.460	274621	101.47	310.2 -> 105...	100.51	310.2 -> 105...	100.51	Methadone-D9	319.3 -> 268...	6.438	14951...		
Methamphetamine	150.1 -> 91.1	1/12/2017 8:17 PM	P2-B1	5.110	271319	25.91	150.1 -> 119...	31.52	150.1 -> 119...	31.52	Methamphetamine-D11	161.2 -> 97.1	5.069	404875		
Morphine	286.2 -> 201...	1/12/2017 8:17 PM	P2-B1	4.476	7529	77.19	286.2 -> 165...	57.03	286.2 -> 165...	57.03	Morphine-D6	292.2 -> 152...	4.412	14847		
Naloxone	328.2 -> 309...	1/12/2017 8:17 PM	P2-B1	5.094	47176	61.32	328.2 -> 211...	43.28	328.2 -> 211...	43.28	Naltrexol-D3	347.2 -> 329...	5.011	401624		
Naltrexol	344.2 -> 326...	1/12/2017 8:17 PM	P2-B1	5.012	105226	1218.43	344.2 -> 308...	81.05	344.2 -> 308...	81.05	Naltrexol-D3	347.2 -> 329...	5.011	401624		
Naltrexone	342.2 -> 324...	1/12/2017 8:17 PM	P2-B1	5.033	47213	296.15	342.2 -> 55.3	43.56	342.2 -> 55.3	43.56	Naltrexol-D3	347.2 -> 329...	5.011	401624		
Norbuprenorphine	414.3 -> 101...	1/12/2017 8:17 PM	P2-B1	5.923	8582	2112.02	414.3 -> 57.3	45.14	414.3 -> 57.3	45.14	Norbuprenorphine-D3	417.3 -> 101...	5.923	50299		
Nordiazepam	271.1 -> 140...	1/12/2017 8:17 PM	P2-B1	6.631	24709	4202.20	271.1 -> 208...	Infinity	271.1 -> 208...	Infinity	Nordiazepam-D5	276.1 -> 140...	6.630	71298		
Norfentanyl	233.2 -> 84.2	1/12/2017 8:17 PM	P2-B1	5.452	175909	1953.03	233.2 -> 55.3	46.69	233.2 -> 55.3	46.69	Norfentanyl-D5	238.2 -> 84.2	5.431	805562		
Norhydrocodone	286.2 -> 199...	1/12/2017 8:17 PM	P2-B1	5.080	3713	6.31	286.2 -> 171...	6.01	286.2 -> 171...	6.01	Norhydrocodone-D3	289.2 -> 202...	5.060	97097		
Noroxycodone	302.1 -> 284...	1/12/2017 8:17 PM	P2-B1	4.997	34033	30.30	302.1 -> 186...	130.94	302.1 -> 186...	130.94	Noroxycodone-D3	305.2 -> 287...	4.976	181869		
O-desmethyl-tramadol	250.2 -> 58.3	1/12/2017 8:17 PM	P2-B1	5.025	189091	599.99	250.2 -> 42.3	43.09	250.2 -> 42.3	43.09	O-desmethyl-tramadol...	256.2 -> 64.3	5.005	911214		
Oxazepam	287.1 -> 240...	1/12/2017 8:17 PM	P2-B1	6.463	13962	27.61	287.1 -> 268...	5.40	287.1 -> 268...	5.40	Oxazepam-D5	292.1 -> 246...	6.463	65679		
Oxycodone	316.2 -> 298...	1/12/2017 8:17 PM	P2-B1	5.055	62927	57.15	316.2 -> 241...	96.14	316.2 -> 241...	96.14	Oxycodone-D6	322.2 -> 304...	5.035	317463		
Oxymorphone	302.1 -> 284...	1/12/2017 8:17 PM	P2-B1	4.473	77566	67.40	302.1 -> 227...	97.68	302.1 -> 227...	97.68	Oxymorphone-D3	305.2 -> 287...	4.449	386751		
Phentermine	150.1 -> 65.2	1/12/2017 8:17 PM	P2-B1	5.231	46868	Infinity	150.1 -> 133...	3.07	150.1 -> 133...	3.07	Phentermine-D5	155.2 -> 96.2	5.231	427351		
Promethazine	285.1 -> 86.2	1/12/2017 8:17 PM	P2-B1	6.423	377967	200.83	285.1 -> 71.3	Infinity	285.1 -> 71.3	Infinity	Promethazine-D3	288.2 -> 89.2	6.423	22046...		
Quetiapine	384.2 -> 253...	1/12/2017 8:17 PM	P2-B1	6.474	315927	232.12	384.2 -> 221...	5226.89	384.2 -> 221...	5226.89	Quetiapine-D8	392.2 -> 226...	6.433	456825		
Sertraline	306.1 -> 158...	1/12/2017 8:17 PM	P2-B1	6.625	109612	161.74	306.1 -> 275...	14996...	306.1 -> 275...	14996...	Sertraline-D3	309.1 -> 275...	6.623	512227		
Sufentanil	387.2 -> 238...	1/12/2017 8:17 PM	P2-B1	6.433	23888	389.33	387.2 -> 111...	194.99	387.2 -> 111...	194.99	Sufentanil-D5	392.2 -> 238...	6.412	970529		
Temazepam	301.1 -> 255...	1/12/2017 8:17 PM	P2-B1	6.605	100128	98.63	301.1 -> 283...	12.77	301.1 -> 283...	12.77	Temazepam-D5	306.1 -> 260...	6.584	511119		
Tramadol	264.2 -> 58.3	1/12/2017 8:17 PM	P2-B1	5.549	245022	112.15	264.2 -> 43.3	6.38	264.2 -> 43.3	6.38	Tramadol-13C-D3	268.2 -> 58.3	5.528	11743...		



Compound Method		p1 cal 1a			p1 cal 1a Results			Qualifier 1 M...		Qualifier...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.		
Trazodone	372.2 -> 176...	1/12/2017 8:17 PM	P2-B1	6.556	273223	1000.56	372.2 -> 148...	7990.53	392.2 -> 238...	6.412	Sufentanil-D5	392.2 -> 238...	6.412	970529		
Venlafaxine	278.2 -> 58.3	1/12/2017 8:17 PM	P2-B1	5.896	228253	75.39	278.2 -> 260...	18.12	284.2 -> 64.3	5.895	Venlafaxine-D6	284.2 -> 64.3	5.895	11610...		
Zolpidem	308.2 -> 235...	1/12/2017 8:17 PM	P2-B1	6.257	259750	120.91	308.2 -> 263...	297.60	314.2 -> 235...	6.256	Zolpidem-D6	314.2 -> 235...	6.256	13406...		

Compound Method			p1 negative				control external				p1 negative Results				Qualifi...				ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Qualifi...	Name	Transition	RT	Resp.	S/N	Transition	RT	Resp.	S/N	Transition	RT	Resp.	
6-MAM	328.2 -> 165...	1/12/2017 8:56 PM	P2-B6				328.2 -> 211...			6-MAM-D6	334.2 -> 165...	5.053	59917		334.2 -> 165...	5.053	59917		334.2 -> 165...	5.053	59917	
7-aminoclonazepam	286.1 -> 121...	1/12/2017 8:56 PM	P2-B6	5.874	226	0.84	286.1 -> 222...			7-Aminoclonazepam-D4	290.1 -> 121...	5.585	166676		290.1 -> 121...	5.585	166676		290.1 -> 121...	5.585	166676	
Acetyl Fentanyl	323.2 -> 105...	1/12/2017 8:56 PM	P2-B6				323.2 -> 188...			Acetyl Fentanyl-D5	328.2 -> 105...	5.906	12786...		328.2 -> 105...	5.906	12786...		328.2 -> 105...	5.906	12786...	
Acetyl Norfentanyl	219.1 -> 84.2	1/12/2017 8:56 PM	P2-B6	4.946	52	0.87	219.1 -> 56.3			Acetyl Norfentanyl-D5	224.2 -> 84.2	4.966	516152		224.2 -> 84.2	4.966	516152		224.2 -> 84.2	4.966	516152	
a-hydroxylprazosolam	325.1 -> 297...	1/12/2017 8:56 PM	P2-B6	6.477	38	1.47	325.1 -> 215...			a-hydroxylprazosolam-D5	330.1 -> 302...	6.456	38365		330.1 -> 302...	6.456	38365		330.1 -> 302...	6.456	38365	
alpha-PVP	232.2 -> 91.0	1/12/2017 8:56 PM	P2-B6	6.024	184	0.98	232.2 -> 77.1		0.46	alpha-PVP-d8	240.2 -> 91.1	5.634	622848		240.2 -> 91.1	5.634	622848		240.2 -> 91.1	5.634	622848	
Alprazolam	309.1 -> 281...	1/12/2017 8:56 PM	P2-B6	6.380	2171	28.11	309.1 -> 205...		0.36	Alprazolam-D5	314.1 -> 286...	6.541	249465		314.1 -> 286...	6.541	249465		314.1 -> 286...	6.541	249465	
Amphetamine	136.1 -> 91.1	1/12/2017 8:56 PM	P2-B6	5.030	30010	17.72	136.1 -> 119...		4.73	Amphetamine-D11	147.2 -> 130...	4.888	181809		147.2 -> 130...	4.888	181809		147.2 -> 130...	4.888	181809	
Bupropion	240.1 -> 184...	1/12/2017 8:56 PM	P2-B6	6.165	215	0.88	240.1 -> 131...		12.14	Ketamine-D4	242.1 -> 129...	5.592	354472		242.1 -> 129...	5.592	354472		242.1 -> 129...	5.592	354472	
Carisoprodol	261.2 -> 176...	1/12/2017 8:56 PM	P2-B6				261.2 -> 55.3			Carisoprodol-D7	268.2 -> 183...	6.183	426814		268.2 -> 183...	6.183	426814		268.2 -> 183...	6.183	426814	
Citalopram	325.2 -> 109...	1/12/2017 8:56 PM	P2-B6	6.110	348	0.53	325.2 -> 262...			Citalopram-D6	331.2 -> 109...	6.150	895215		331.2 -> 109...	6.150	895215		331.2 -> 109...	6.150	895215	
Clonazepam	316.1 -> 269...	1/12/2017 8:56 PM	P2-B6	6.561	188	2.36	316.1 -> 213...		0.18	Clonazepam-D4	320.1 -> 217...	6.398	28747		320.1 -> 217...	6.398	28747		320.1 -> 217...	6.398	28747	
Codeine	300.2 -> 215...	1/12/2017 8:56 PM	P2-B6	5.179	13814	37.76	300.2 -> 165...		58.82	Codeine-D6	306.2 -> 218...	4.935	45559		306.2 -> 218...	4.935	45559		306.2 -> 218...	4.935	45559	
Cyclobenzaprine	276.2 -> 214...	1/12/2017 8:56 PM	P2-B6	6.385	82	0.91	276.2 -> 231...		1.18	Cyclobenzaprine-D3	279.2 -> 215...	6.425	655111		279.2 -> 215...	6.425	655111		279.2 -> 215...	6.425	655111	
Dextromethorphan	272.2 -> 171...	1/12/2017 8:56 PM	P2-B6	6.182	633329	105329	272.2 -> 147...		1515	Dextromethorphan-D3	275.2 -> 171...	6.182	289365		275.2 -> 171...	6.182	289365		275.2 -> 171...	6.182	289365	
Dextropropriphan	258.2 -> 157...	1/12/2017 8:56 PM	P2-B6	5.286	100	0.43	258.2 -> 133...			Dextropropriphan-D3	261.2 -> 157...	5.509	299213		261.2 -> 157...	5.509	299213		261.2 -> 157...	5.509	299213	
Diazepam	285.1 -> 193...	1/12/2017 8:56 PM	P2-B6	6.464	2316	1.06	285.1 -> 153...			Diazepam-D5	290.1 -> 198...	6.748	264865		290.1 -> 198...	6.748	264865		290.1 -> 198...	6.748	264865	
Dihydrocodeine	302.2 -> 198...	1/12/2017 8:56 PM	P2-B6	4.916	666	1.13	302.2 -> 128...		176.46	Dihydrocodeine-D6	308.2 -> 202...	4.874	142793		308.2 -> 202...	4.874	142793		308.2 -> 202...	4.874	142793	
Diphenhydramine	256.2 -> 167...	1/12/2017 8:56 PM	P2-B6				256.2 -> 152...			Diphenhydramine-D3	259.2 -> 167...	6.103	18122...		259.2 -> 167...	6.103	18122...		259.2 -> 167...	6.103	18122...	
Doxylamine	271.2 -> 182...	1/12/2017 8:56 PM	P2-B6	5.775	31981	181.65	271.2 -> 167...		633.66	Doxylamine-D5	276.2 -> 187...	5.774	13129...		276.2 -> 187...	5.774	13129...		276.2 -> 187...	5.774	13129...	
EDDP	279.2 -> 235...	1/12/2017 8:56 PM	P2-B6	5.885	30	0.26	279.2 -> 250...		0.26	EDDP-D3	282.2 -> 235...	6.159	17477		282.2 -> 235...	6.159	17477		282.2 -> 235...	6.159	17477	
Fentanyl	337.2 -> 105...	1/12/2017 8:56 PM	P2-B6	6.109	98	0.43	337.2 -> 188...			Fentanyl-D5	342.3 -> 105...	6.129	11902...		342.3 -> 105...	6.129	11902...		342.3 -> 105...	6.129	11902...	
Fluoxetine	310.1 -> 44.3	1/12/2017 8:56 PM	P2-B6	6.379	229	1.82	310.1 -> 148...		0.66	Fluoxetine-D6	316.2 -> 44.3	6.357	14550...		316.2 -> 44.3	6.357	14550...		316.2 -> 44.3	6.357	14550...	
Hydrocodone	300.2 -> 198...	1/12/2017 8:56 PM	P2-B6	5.179	434375	Infinity	300.2 -> 128...		Infinity	Hydrocodone-D6	306.2 -> 202...	5.157	231712		306.2 -> 202...	5.157	231712		306.2 -> 202...	5.157	231712	
Hydromorphone	286.2 -> 184...	1/12/2017 8:56 PM	P2-B6				286.2 -> 157...			Hydromorphone-D6	292.2 -> 185...	4.658	103663		292.2 -> 185...	4.658	103663		292.2 -> 185...	4.658	103663	
Ketamine	238.1 -> 125...	1/12/2017 8:56 PM	P2-B6	5.431	1198	28.00	238.1 -> 220...		28.00	Ketamine-D4	242.1 -> 129...	5.592	354472		242.1 -> 129...	5.592	354472		242.1 -> 129...	5.592	354472	
Meprobamate	219.1 -> 158...	1/12/2017 8:56 PM	P2-B6				219.1 -> 97.1			Meprobamate-D7	226.2 -> 165...	5.677	107467		226.2 -> 165...	5.677	107467		226.2 -> 165...	5.677	107467	
Methadone	310.2 -> 265...	1/12/2017 8:56 PM	P2-B6	6.744	1417	1.00	310.2 -> 105...			Methadone-D9	319.3 -> 268...	6.438	13573...		319.3 -> 268...	6.438	13573...		319.3 -> 268...	6.438	13573...	
Methamphetamine	150.1 -> 91.1	1/12/2017 8:56 PM	P2-B6	5.110	129364	8.09	150.1 -> 119...		2.35	Methamphetamine-D11	161.2 -> 97.1	5.069	542961		161.2 -> 97.1	5.069	542961		161.2 -> 97.1	5.069	542961	
Morphine	286.2 -> 201...	1/12/2017 8:56 PM	P2-B6	4.455	73128	114.30	286.2 -> 165...		946.57	Morphine-D6	292.2 -> 152...	4.412	11206		292.2 -> 152...	4.412	11206		292.2 -> 152...	4.412	11206	
Naloxone	328.2 -> 309...	1/12/2017 8:56 PM	P2-B6	5.094	822	0.49	328.2 -> 211...			Naltrexol-D3	347.2 -> 329...	4.991	367275		347.2 -> 329...	4.991	367275		347.2 -> 329...	4.991	367275	
Naltrexol	344.2 -> 326...	1/12/2017 8:56 PM	P2-B6	5.012	4956	19.80	344.2 -> 308...		19.80	Naltrexol-D3	347.2 -> 329...	4.991	367275		347.2 -> 329...	4.991	367275		347.2 -> 329...	4.991	367275	
Naltrexone	342.2 -> 324...	1/12/2017 8:56 PM	P2-B6	4.972	51	0.47	342.2 -> 55.3		0.85	Naltrexol-D3	347.2 -> 329...	4.991	367275		347.2 -> 329...	4.991	367275		347.2 -> 329...	4.991	367275	
Norbuprenorphine	414.3 -> 101...	1/12/2017 8:56 PM	P2-B6				414.3 -> 57.3			Norbuprenorphine-D3	417.3 -> 101...	5.903	47629		417.3 -> 101...	5.903	47629		417.3 -> 101...	5.903	47629	
Nordiazepam	271.1 -> 140...	1/12/2017 8:56 PM	P2-B6	6.712	67	2.00	271.1 -> 208...		0.47	Nordiazepam-D5	276.1 -> 140...	6.609	64850		276.1 -> 140...	6.609	64850		276.1 -> 140...	6.609	64850	
Norfentanyl	233.2 -> 84.2	1/12/2017 8:56 PM	P2-B6	5.289	22	0.27	233.2 -> 55.3		8.87	Norfentanyl-D5	238.2 -> 84.2	5.411	775511		238.2 -> 84.2	5.411	775511		238.2 -> 84.2	5.411	775511	
Norhydrocodone	286.2 -> 199...	1/12/2017 8:56 PM	P2-B6	5.021	131	1.92	286.2 -> 171...		0.90	Norhydrocodone-D3	289.2 -> 202...	5.060	86518		289.2 -> 202...	5.060	86518		289.2 -> 202...	5.060	86518	
Noroxycodone	302.1 -> 284...	1/12/2017 8:56 PM	P2-B6	5.057	977	0.90	302.1 -> 186...		1.62	Noroxycodone-D3	305.2 -> 287...	4.976	163314		305.2 -> 287...	4.976	163314		305.2 -> 287...	4.976	163314	
O-desmethyl-tramadol	250.2 -> 58.3	1/12/2017 8:56 PM	P2-B6	5.005	1072	2.81	250.2 -> 42.3		0.54	O-desmethyl-tramadol-...	256.2 -> 64.3	5.005	828278		256.2 -> 64.3	5.005	828278		256.2 -> 64.3	5.005	828278	
Oxazepam	287.1 -> 240...	1/12/2017 8:56 PM	P2-B6	6.259	231	0.38	287.1 -> 268...		Infinity	Oxazepam-D5	292.1 -> 246...	6.443	58877		292.1 -> 246...	6.443	58877		292.1 -> 246...	6.443	58877	
Oxycodone	316.2 -> 298...	1/12/2017 8:56 PM	P2-B6	5.075	404	2.93	316.2 -> 241...		0.26	Oxycodone-D6	322.2 -> 304...	5.035	290769		322.2 -> 304...	5.035	290769		322.2 -> 304...	5.035	290769	
Oxymorphone	302.1 -> 284...	1/12/2017 8:56 PM	P2-B6	4.554	71	0.66	302.1 -> 227...		1.64	Oxymorphone-D3	305.2 -> 287...	4.429	303724		305.2 -> 287...	4.429	303724		305.2 -> 287...	4.429	303724	
Phentermine	150.1 -> 65.2	1/12/2017 8:56 PM	P2-B6	5.110	24389	1.34	150.1 -> 133...		69.74	Phentermine-D5	155.2 -> 96.2	5.231	446419		155.2 -> 96.2	5.231	446419		155.2 -> 96.2	5.231	446419	
Promethazine	285.1 -> 86.2	1/12/2017 8:56 PM	P2-B6	6.423	150	1.71	285.1 -> 71.3			Promethazine-D3	288.2 -> 89.2	6.402	20322...		288.2 -> 89.2	6.402	20322...		288.2 -> 89.2	6.402	20322...	
Quetiapine	384.2 -> 253...	1/12/2017 8:56 PM	P																			

Compound Method		p1 negative (Control) (External)			p1 negative Results			Qualifier 1 M...		Qualifi...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.	
Trazodone	372.2 -> 176...	1/12/2017 8:56 PM	P2-B6	6.556	28313...	10182.92	372.2 -> 148...	9031...	392.2 -> 238...		Sufentanil-D5	6.412	874626		
Venlafaxine	278.2 -> 58.3	1/12/2017 8:56 PM	P2-B6				278.2 -> 260...		284.2 -> 64.3		Venlafaxine-D6	5.895	10670...		
Zolpidem	308.2 -> 235...	1/12/2017 8:56 PM	P2-B6	6.635	2117	2.98	308.2 -> 263...	1.64	314.2 -> 235...		Zolpidem-D6	6.256	11866...		

Negative

Compound Method		Negative		p1 external-control a		p1 external-control b		Results		Qualifier 1 M...		Quali...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Transition	Name	Transition	RT	Resp.			
6-MAM	328.2 -> 165...	1/12/2017 8:36 PM	P2-A6	4.973	58	0.88	328.2 -> 211...	1.44	6-MAM-D6	334.2 -> 165...	5.053	60456						
7-aminoclonazepam	286.1 -> 121...	1/12/2017 8:36 PM	P2-A6	5.586	163	0.97	286.1 -> 222...	21.95	7-Aminoclonazepam-D4	290.1 -> 121...	5.585	165989						
Acetyl Fentanyl	323.2 -> 105...	1/12/2017 8:36 PM	P2-A6	5.969	694	0.68	323.2 -> 188...	0.44	Acetyl Fentanyl-D5	328.2 -> 105...	5.906	12931...						
Acetyl Norfentanyl	219.1 -> 84.2	1/12/2017 8:36 PM	P2-A6	5.007	135	2.88	219.1 -> 56.3	0.44	Acetyl Norfentanyl-D5	224.2 -> 84.2	4.966	509511						
a-hydroxyalprazolam	325.1 -> 297...	1/12/2017 8:36 PM	P2-A6	6.538	21	0.63	325.1 -> 215...		a-hydroxyalprazolam-D5	330.1 -> 302...	6.456	40525						
alpha-PVP	232.2 -> 91.0	1/12/2017 8:36 PM	P2-A6	5.310	394	1.09	232.2 -> 77.1	0.74	alpha-PVP-d8	240.2 -> 91.1	5.634	654144						
Alprazolam	309.1 -> 281...	1/12/2017 8:36 PM	P2-A6	6.380	1895	10.54	309.1 -> 205...	0.23	Alprazolam-D5	314.1 -> 286...	6.541	274561						
Amphetamine	136.1 -> 91.1	1/12/2017 8:36 PM	P2-A6	5.030	35152	9.49	136.1 -> 119...	1.41	Amphetamine-D11	147.2 -> 130...	4.909	183048						
Bupropion	240.1 -> 184...	1/12/2017 8:36 PM	P2-A6	5.859	269	0.78	240.1 -> 131...	1.62	Ketamine-D4	242.1 -> 129...	5.592	383550						
Carisoprodol	261.2 -> 176...	1/12/2017 8:36 PM	P2-A6	5.980	1054	0.72	261.2 -> 55.3	0.65	Carisoprodol-D7	268.2 -> 183...	6.183	424127						
Citalopram	325.2 -> 109...	1/12/2017 8:36 PM	P2-A6	6.151	237	0.52	325.2 -> 262...	1.06	Citalopram-D6	331.2 -> 109...	6.150	912831						
Clonazepam	316.1 -> 269...	1/12/2017 8:36 PM	P2-A6	6.378	122	0.84	316.1 -> 213...	0.44	Clonazepam-D4	320.1 -> 217...	6.377	28648						
Codeine	300.2 -> 215...	1/12/2017 8:36 PM	P2-A6			300.2 -> 165...			Codeine-D6	306.2 -> 218...	4.955	45295						
Cyclobenzaprine	276.2 -> 214...	1/12/2017 8:36 PM	P2-A6	6.160	308	0.88	276.2 -> 231...	0.79	Cyclobenzaprine-D3	279.2 -> 215...	6.425	667868						
Dextromethorphan	272.2 -> 171...	1/12/2017 8:36 PM	P2-A6	6.039	81	1.06	272.2 -> 147...	3.21	Dextromethorphan-D3	275.2 -> 171...	6.182	311323						
Dextropropriphan	258.2 -> 157...	1/12/2017 8:36 PM	P2-A6			258.2 -> 133...			Dextropropriphan-D3	261.2 -> 157...	5.509	296526						
Diazepam	285.1 -> 193...	1/12/2017 8:36 PM	P2-A6	6.444	758	2.07	285.1 -> 153...		Diazepam-D5	290.1 -> 198...	6.748	257808						
Dihydrocodeine	302.2 -> 198...	1/12/2017 8:36 PM	P2-A6	4.936	44	0.72	302.2 -> 128...	0.43	Dihydrocodeine-D6	308.2 -> 202...	4.874	154072						
Diphenhydramine	256.2 -> 167...	1/12/2017 8:36 PM	P2-A6	6.103	418	0.74	256.2 -> 152...	0.58	Diphenhydramine-D3	259.2 -> 167...	6.103	18789...						
Doxylamine	271.2 -> 182...	1/12/2017 8:36 PM	P2-A6	5.815	2171	1.49	271.2 -> 167...	0.86	Doxylamine-D5	276.2 -> 187...	5.774	14217...						
EDDP	279.2 -> 235...	1/12/2017 8:36 PM	P2-A6	5.915	39	0.46	279.2 -> 250...		EDDP-D3	282.2 -> 235...	6.159	7923						
Fentanyl	337.2 -> 105...	1/12/2017 8:36 PM	P2-A6	6.048	102	0.42	337.2 -> 188...		Fentanyl-D5	342.3 -> 105...	6.129	12510...						
Fluoxetine	310.1 -> 44.3	1/12/2017 8:36 PM	P2-A6	6.379	830	0.89	310.1 -> 148...	0.33	Fluoxetine-D6	316.2 -> 44.3	6.357	14460...						
Hydrocodone	300.2 -> 198...	1/12/2017 8:36 PM	P2-A6	5.078	19	0.19	300.2 -> 128...		Hydrocodone-D6	306.2 -> 202...	5.157	238947						
Hydromorphine	286.2 -> 184...	1/12/2017 8:36 PM	P2-A6			286.2 -> 157...			Hydromorphine-D6	292.2 -> 185...	4.658	104739						
Ketamine	238.1 -> 125...	1/12/2017 8:36 PM	P2-A6	5.411	757	1.57	238.1 -> 220...	0.81	Ketamine-D4	242.1 -> 129...	5.592	383550						
Meprobamate	219.1 -> 158...	1/12/2017 8:36 PM	P2-A6	5.554	826	0.38	219.1 -> 97.1		Meprobamate-D7	226.2 -> 165...	5.677	107597						
Methadone	310.2 -> 265...	1/12/2017 8:36 PM	P2-A6	6.744	1531	1.76	310.2 -> 105...	0.34	Methadone-D9	319.3 -> 268...	6.438	13950...						
Methamphetamine	150.1 -> 91.1	1/12/2017 8:36 PM	P2-A6	5.110	108355	Infinity	150.1 -> 119...	5.12	Methamphetamine-D11	161.2 -> 97.1	5.069	512925						
Morphine	286.2 -> 201...	1/12/2017 8:36 PM	P2-A6	4.414	171	0.91	286.2 -> 165...	2.44	Morphine-D6	292.2 -> 152...	4.433	12362						
Naloxone	328.2 -> 309...	1/12/2017 8:36 PM	P2-A6	5.074	728	1.75	328.2 -> 211...	16.48	Naltrexol-D3	347.2 -> 329...	5.011	371908						
Naltrexol	344.2 -> 326...	1/12/2017 8:36 PM	P2-A6	5.012	5367	1263.04	344.2 -> 308...	0.4	Naltrexol-D3	347.2 -> 329...	5.011	371908						
Naltrexone	342.2 -> 324...	1/12/2017 8:36 PM	P2-A6	5.053	111	0.62	342.2 -> 55.3		Naltrexol-D3	347.2 -> 329...	5.011	371908						
Norbuprenorphine	414.3 -> 101...	1/12/2017 8:36 PM	P2-A6			414.3 -> 57.3			Norbuprenorphine-D3	417.3 -> 101...	5.903	44500						
Nordiazepam	271.1 -> 140...	1/12/2017 8:36 PM	P2-A6	6.692	74	0.78	271.1 -> 208...	2.70	Nordiazepam-D5	276.1 -> 140...	6.630	67651						
Norfentanyl	233.2 -> 84.2	1/12/2017 8:36 PM	P2-A6	5.472	51	0.71	233.2 -> 55.3	3.85	Norfentanyl-D5	238.2 -> 84.2	5.431	772922						
Norhydrocodone	286.2 -> 199...	1/12/2017 8:36 PM	P2-A6	5.000	357	3.12	286.2 -> 171...	1.29	Norhydrocodone-D3	289.2 -> 202...	5.040	94387						
Noroxycodone	302.1 -> 284...	1/12/2017 8:36 PM	P2-A6	5.017	1190	1.81	302.1 -> 186...	0.91	Noroxycodone-D3	305.2 -> 287...	4.976	169814						
O-desmethyl-tramadol	250.2 -> 58.3	1/12/2017 8:36 PM	P2-A6	5.025	1107	1.34	250.2 -> 42.3	4.34	O-desmethyl-tramadol...	256.2 -> 64.3	5.005	839975						
Oxazepam	287.1 -> 240...	1/12/2017 8:36 PM	P2-A6	6.239	464	0.52	287.1 -> 268...		Oxazepam-D5	292.1 -> 246...	6.463	63376						
Oxycodone	316.2 -> 298...	1/12/2017 8:36 PM	P2-A6	5.095	974	2.95	316.2 -> 241...	1.08	Oxycodone-D6	322.2 -> 304...	5.035	289973						
Oxymorphone	302.1 -> 284...	1/12/2017 8:36 PM	P2-A6	4.493	148	0.38	302.1 -> 227...	0.49	Oxymorphone-D3	305.2 -> 287...	4.429	354920						
Phentermine	150.1 -> 65.2	1/12/2017 8:36 PM	P2-A6	5.110	26334	0.83	150.1 -> 133...	1.42	Phentermine-D5	155.2 -> 96.2	5.231	458839						
Promethazine	285.1 -> 86.2	1/12/2017 8:36 PM	P2-A6	6.403	847	1.15	285.1 -> 71.3	0.40	Promethazine-D3	288.2 -> 89.2	6.423	20569...						
Quetiapine	384.2 -> 253...	1/12/2017 8:36 PM	P2-A6	6.515	449	1.76	384.2 -> 221...	1.33	Quetiapine-D8	392.2 -> 226...	6.433	421474						
Sertraline	306.1 -> 158...	1/12/2017 8:36 PM	P2-A6	6.666	217	0.54	306.1 -> 275...	2.46	Sertraline-D3	309.1 -> 275...	6.623	488586						
Sufentanil	387.2 -> 238...	1/12/2017 8:36 PM	P2-A6	6.433	1619	5.98	387.2 -> 111...	3.30	Sufentanil-D5	392.2 -> 238...	6.412	930995						
Temazepam	301.1 -> 255...	1/12/2017 8:36 PM	P2-A6	6.889	313	0.50	301.1 -> 283...	2.66	Temazepam-D5	306.1 -> 260...	6.584	486408						
Tramadol	264.2 -> 58.3	1/12/2017 8:36 PM	P2-A6	5.549	5514	1.22	264.2 -> 43.3		Tramadol-13C-D3	268.2 -> 58.3	5.528	11373...						



Negative A

Compound Method		negative			p1 external-control a			p1 external-control a Results			Qualifier 1 M...		Quali...		ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.					
Trazodone	372.2 -> 176...	1/12/2017 8:36 PM	P2-A6	6.556	1764	1.96	372.2 -> 148...	1.04	Sufentanil-D5	392.2 -> 238...	6.412	930995							
Venlafaxine	278.2 -> 58.3	1/12/2017 8:36 PM	P2-A6	5.875	780	0.45	278.2 -> 260...	0.66	Venlafaxine-D6	284.2 -> 64.3	5.895	10884...							
Zolpidem	308.2 -> 235...	1/12/2017 8:36 PM	P2-A6	6.644	992	1.73	308.2 -> 263...	2.80	Zolpidem-D6	314.2 -> 235...	6.256	12403...							

Compound Method			p2 cal 1b			p2 cal 1b Results			Qualifier 1 M...		Qualifier...		ISTD Method		ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.		
7-aminoflunitrazepam	284.1 -> 135...	1/12/2017 8:27 PM	P2-B1	5.802	61826	515.42	284.1 -> 93.2	95.37	291.2 -> 138...	5.780	7-aminoflunitrazepam-D7	291.2 -> 138...	5.780	288170		
alpha-hydroxymidazolam	342.1 -> 324...	1/12/2017 8:27 PM	P2-B1	6.527	88662	122.48	342.1 -> 203...	110.83	346.1 -> 328...	6.527	alpha-hydroxymidazolam-	346.1 -> 328...	6.527	447560		
Amitriptyline	278.2 -> 91.2	1/12/2017 8:27 PM	P2-B1	6.517	248376	113.39	278.2 -> 105...	Infinity	281.2 -> 91.2	6.516	Amitriptyline-D3	281.2 -> 91.2	6.516	531479		
Amoxapine	314.1 -> 271...	1/12/2017 8:27 PM	P2-B1	6.471	78539	260.01	314.1 -> 193...	57.91	281.2 -> 91.2	6.516	Amitriptyline-D3	281.2 -> 91.2	6.516	531479		
Benzylecgonine	290.1 -> 168...	1/12/2017 8:27 PM	P2-B1	5.411	19661	103.88	290.1 -> 105...	31253...	298.2 -> 171...	5.390	Benzylecgonine-D8	298.2 -> 171...	5.390	6615		
Carbamazepine	237.1 -> 193...	1/12/2017 8:27 PM	P2-B1	6.197	35223	5185.24	237.1 -> 194...	Infinity	243.1 -> 200...	6.196	Carbamazepine-13C6	243.1 -> 200...	6.196	14672...		
Chlordiazepoxide	300.1 -> 227...	1/12/2017 8:27 PM	P2-B1	6.655	35045	38.88	300.1 -> 282...	149.58	305.1 -> 286...	6.655	Chlordiazepoxide-D5	305.1 -> 286...	6.655	330450		
Clomipramine	315.2 -> 86.2	1/12/2017 8:27 PM	P2-B1	6.713	382348	710.81	315.2 -> 58.3	91.25	318.2 -> 89.2	6.713	Clomipramine-D3	318.2 -> 89.2	6.713	19547...		
Cocaine	304.2 -> 182...	1/12/2017 8:27 PM	P2-B1	5.697	212008	88.22	304.2 -> 105...	120.43	307.2 -> 185...	5.696	Cocaine-D3	307.2 -> 185...	5.696	861182		
Desipramine	267.2 -> 72.3	1/12/2017 8:27 PM	P2-B1	6.437	259858	Infinity	267.2 -> 44.3	Infinity	270.2 -> 75.3	6.436	Desipramine-D3	270.2 -> 75.3	6.436	14325...		
Doxepin	280.2 -> 107...	1/12/2017 8:27 PM	P2-B1	6.231	127918	Infinity	280.2 -> 77.2	6.67	283.2 -> 107...	6.231	Doxepin-D3	283.2 -> 107...	6.231	648795		
Estazolam	295.1 -> 267...	1/12/2017 8:27 PM	P2-B1	6.474	59025	203.68	295.1 -> 205...	59.05	300.1 -> 272...	6.451	Estazolam-D5	300.1 -> 272...	6.451	296414		
Flunitrazepam	314.1 -> 268...	1/12/2017 8:27 PM	P2-B1	6.511	65544	23513.38	314.1 -> 239...	165.54	321.1 -> 245...	6.490	Flunitrazepam-D7	321.1 -> 245...	6.490	22388		
Flurazepam	388.2 -> 315...	1/12/2017 8:27 PM	P2-B1	6.221	176785	799.16	388.2 -> 317...	6307.37	393.1 -> 244...	6.159	Zopiclone-D4	393.1 -> 244...	6.159	311297		
Imipramine	281.2 -> 86.2	1/12/2017 8:27 PM	P2-B1	6.475	413628	199734.52	281.2 -> 58.3	Infinity	284.2 -> 61.3	6.475	Imipramine-D3	284.2 -> 61.3	6.475	11054...		
Levamisole	205.1 -> 91.2	1/12/2017 8:27 PM	P2-B1	5.122	50553	323.51	205.1 -> 178...	Infinity	307.2 -> 185...	5.696	Cocaine-D3	307.2 -> 185...	5.696	861182		
Maprotiline	278.2 -> 91.2	1/12/2017 8:27 PM	P2-B1	6.517	248376	113.39	278.2 -> 117...	19692...	252.2 -> 224...	5.725	Meperidine-D4	252.2 -> 224...	5.725	379152		
MDA	180.1 -> 163...	1/12/2017 8:27 PM	P2-B1	5.104	58270	30.75	180.1 -> 105...	16908...	185.1 -> 168...	5.083	MDA-D5	185.1 -> 168...	5.083	319799		
MDEA	208.1 -> 163...	1/12/2017 8:27 PM	P2-B1	5.363	138764	Infinity	208.1 -> 105...	30.74	214.2 -> 166...	5.343	MDEA-D6	214.2 -> 166...	5.343	727150		
MDMA	194.1 -> 163...	1/12/2017 8:27 PM	P2-B1	5.203	107807	1770.23	194.1 -> 105...	Infinity	200.2 -> 166...	5.203	MDMA-D6	200.2 -> 166...	5.203	61911		
Meperidine	248.2 -> 220...	1/12/2017 8:27 PM	P2-B1	5.725	70248	316.55	248.2 -> 174...	19.51	252.2 -> 224...	5.725	Meperidine-D4	252.2 -> 224...	5.725	379152		
Methyphenidate	234.2 -> 84.2	1/12/2017 8:27 PM	P2-B1	5.625	309402	Infinity	234.2 -> 56.3	Infinity	252.2 -> 224...	5.725	Meperidine-D4	252.2 -> 224...	5.725	379152		
Metoprolol	268.2 -> 116...	1/12/2017 8:27 PM	P2-B1	5.536	32830	201.44	268.2 -> 56.3	371.75	252.2 -> 224...	5.725	Meperidine-D4	252.2 -> 224...	5.725	379152		
Midazolam	326.1 -> 223...	1/12/2017 8:27 PM	P2-B1	6.671	34131	204.72	326.1 -> 249...	74.70	330.1 -> 295...	6.670	Midazolam-D4	330.1 -> 295...	6.670	563431		
Mirtazapine	266.2 -> 195...	1/12/2017 8:27 PM	P2-B1	5.989	194701	275.53	266.2 -> 72.3	167.86	330.1 -> 295...	6.670	Midazolam-D4	330.1 -> 295...	6.670	563431		
Miltarginine	399.2 -> 174...	1/12/2017 8:27 PM	P2-B1	6.240	84005	149.20	399.2 -> 238...	122.15	243.1 -> 200...	6.196	Carbamazepine-13C6	243.1 -> 200...	6.196	14672...		
Normeperidine	234.1 -> 42.3	1/12/2017 8:27 PM	P2-B1	5.708	86257	Infinity	234.1 -> 160...	Infinity	238.2 -> 164...	5.706	Normeperidine-D4	238.2 -> 164...	5.706	404653		
Norpropoxyphene	326.2 -> 44.3	1/12/2017 8:27 PM	P2-B1	6.305	42099	80.55	326.2 -> 252...	35.88	331.2 -> 44.3	6.304	Norpropoxyphene-D5	331.2 -> 44.3	6.304	189720		
Nortriptyline	264.2 -> 91.2	1/12/2017 8:27 PM	P2-B1	6.397	449602	Infinity	264.2 -> 233...	664.97	267.2 -> 233...	6.478	Nortriptyline-D3	267.2 -> 233...	6.478	615007		
Ondansetron	294.2 -> 184...	1/12/2017 8:27 PM	P2-B1	5.902	93731	124.20	294.2 -> 212...	373.45	289.2 -> 72.3	5.761	Pentazocine-13C3	289.2 -> 72.3	5.761	506524		
Pentazocine	286.2 -> 218...	1/12/2017 8:27 PM	P2-B1	5.761	133964	172.07	286.2 -> 41.3	Infinity	289.2 -> 72.3	5.761	Pentazocine-13C3	289.2 -> 72.3	5.761	506524		
Phenazepam	349.0 -> 206...	1/12/2017 8:27 PM	P2-B1	6.567	51848	10657.49	349.0 -> 183...	276.10	353.0 -> 183...	6.567	Phenazepam-D4	353.0 -> 183...	6.567	18229		
Phencyclidine	244.2 -> 86.2	1/12/2017 8:27 PM	P2-B1	6.012	224464	10418.90	244.2 -> 91.1	35.44	249.2 -> 86.2	5.991	Phencyclidine-D5	249.2 -> 86.2	5.991	10536...		
Phenytol	253.1 -> 104...	1/12/2017 8:27 PM	P2-B1	6.113	3231	3.75	253.1 -> 182...	9.43	263.2 -> 192...	6.113	Phenytol-D10	263.2 -> 192...	6.113	22212		
Prazepam	325.1 -> 271...	1/12/2017 8:27 PM	P2-B1	7.016	258848	730.30	325.1 -> 140...	186.93	330.1 -> 276...	6.995	Prazepam-D5	330.1 -> 276...	6.995	12956...		
Primidone	219.1 -> 91.2	1/12/2017 8:27 PM	P2-B1	5.485	10807	108.85	219.1 -> 162...	29.47	330.1 -> 276...	6.995	Prazepam-D5	330.1 -> 276...	6.995	12956...		
Propoxyphene	340.2 -> 58.3	1/12/2017 8:27 PM	P2-B1	6.345	238509	431.29	340.2 -> 266...	50.87	351.3 -> 277...	6.323	Propoxyphene-D11	351.3 -> 277...	6.323	336183		
Protriptyline	264.2 -> 155...	1/12/2017 8:27 PM	P2-B1	6.397	806475	3300.61	264.2 -> 161...	8.37	267.2 -> 233...	6.478	Nortriptyline-D3	267.2 -> 233...	6.478	615007		
Pseudoephedrine	166.1 -> 148...	1/12/2017 8:27 PM	P2-B1	4.762	11318...	1255.22	166.1 -> 133...	1423.22	169.1 -> 151...	4.741	Pseudoephedrine-D3	169.1 -> 151...	4.741	559963		
Tapentadol	222.2 -> 107...	1/12/2017 8:27 PM	P2-B1	5.565	189962	Infinity	222.2 -> 121...	248.82	225.2 -> 107...	5.544	Tapentadol-D3	225.2 -> 107...	5.544	994044		
Trimipramine	295.2 -> 100...	1/12/2017 8:27 PM	P2-B1	6.554	438579	Infinity	295.2 -> 58.3	1030.45	298.2 -> 103...	6.554	Trimipramine-D3	298.2 -> 103...	6.554	21883...		
Verapamil	455.3 -> 165...	1/12/2017 8:27 PM	P2-B1	6.280	249565	652.51	455.3 -> 150...	809.34	298.2 -> 103...	6.554	Trimipramine-D3	298.2 -> 103...	6.554	21883...		
Zaleplon	306.1 -> 236...	1/12/2017 8:27 PM	P2-B1	6.308	71177	184.39	306.1 -> 264...	7696.14	310.2 -> 240...	6.287	Zaleplon-D4	310.2 -> 240...	6.287	302499		
Zopiclone	389.1 -> 244...	1/12/2017 8:27 PM	P2-B1	6.180	70468	11.76	389.1 -> 216...	156.16	393.1 -> 244...	6.159	Zopiclone-D4	393.1 -> 244...	6.159	311297		

External control

Compound Method			p2 negative			p2 negative			p2 negative Results			Qualifier 1 M...			Qualifier 1...			ISTD Method			ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Transition	S/N	Name	Transition	RT	Resp.								
7-aminoflunitrazepam	284.1 -> 135...	1/12/2017 9:05 PM	P2-B6	5.884	2035	10.12	284.1 -> 93.2	~	2.48	7-aminoflunitrazepam-D7	291.2 -> 138...	5.780	273814									
alpha-hydroxymidazolam	342.1 -> 324...	1/12/2017 9:05 PM	P2-B6	6.467	56	2.01	342.1 -> 203...		0.34	alpha-hydroxymidazolam...	346.1 -> 328...	6.507	423988									
Amiripryline	278.2 -> 91.2	1/12/2017 9:05 PM	P2-B6	6.314	2502	3.17	278.2 -> 105...		43.63	Amiripryline-D3	281.2 -> 91.2	6.516	486935									
Amoxapine	314.1 -> 271...	1/12/2017 9:05 PM	P2-B6	6.531	576	2.36	314.1 -> 193...		305.65	Amiripryline-D3	281.2 -> 91.2	6.516	486935									
Benzoyllecgonine	290.1 -> 168...	1/12/2017 9:05 PM	P2-B6	5.452	166	38.60	290.1 -> 105...	✓		Benzoyllecgonine-D8	298.2 -> 171...	5.390	6714									
Carbamazepine	237.1 -> 193...	1/12/2017 9:05 PM	P2-B6	6.421	231	1.19	237.1 -> 194...		0.63	Carbamazepine-13C6	243.1 -> 200...	6.196	13069...									
Chlordiazepoxide	300.1 -> 227...	1/12/2017 9:05 PM	P2-B6	6.411	5048	Infinity	300.1 -> 282...	✓	0.43	Chlordiazepoxide-D5	305.1 -> 286...	6.655	300770									
Clomipramine	315.2 -> 86.2	1/12/2017 9:05 PM	P2-B6	6.531	103	1.14	315.2 -> 58.3			Clomipramine-D3	318.2 -> 89.2	6.713	18962...									
Cocaine	304.2 -> 182...	1/12/2017 9:05 PM	P2-B6				304.2 -> 105...			Cocaine-D3	307.2 -> 185...	5.696	768285									
Desipramine	267.2 -> 72.3	1/12/2017 9:05 PM	P2-B6	6.457	1104	3.68	267.2 -> 44.3		89.58	Desipramine-D3	270.2 -> 75.3	6.436	13815...									
Doxepin	280.2 -> 107...	1/12/2017 9:05 PM	P2-B6	6.109	77	0.73	280.2 -> 77.2		0.49	Doxepin-D3	283.2 -> 107...	6.231	604443									
Estazolam	295.1 -> 267...	1/12/2017 9:05 PM	P2-B6	6.535	81	0.37	295.1 -> 205...		4.87	Estazolam-D5	300.1 -> 272...	6.451	287362									
Flunitrazepam	314.1 -> 268...	1/12/2017 9:05 PM	P2-B6	6.552	1047	1.03	314.1 -> 239...		0.32	Flunitrazepam-D7	321.1 -> 245...	6.490	19827									
Flurazepam	388.2 -> 315...	1/12/2017 9:05 PM	P2-B6	6.160	118	3.18	388.2 -> 317...		1.53	Zopiclone-D4	393.1 -> 244...	6.160	242061									
Imipramine	281.2 -> 86.2	1/12/2017 9:05 PM	P2-B6	6.516	2467	4.61	281.2 -> 58.3			Imipramine-D3	284.2 -> 61.3	6.475	10673...									
Levamisole	205.1 -> 91.2	1/12/2017 9:05 PM	P2-B6	5.081	19	0.12	205.1 -> 178...		2.44	Cocaine-D3	307.2 -> 185...	5.696	768285									
Maprotiline	278.2 -> 91.2	1/12/2017 9:05 PM	P2-B6	6.314	2502	3.17	278.2 -> 117...			Meperidine-D4	252.2 -> 224...	5.725	337545									
MDA	180.1 -> 163...	1/12/2017 9:05 PM	P2-B6				180.1 -> 105...			MDA-D5	185.1 -> 168...	5.083	302826									
MDEA	208.1 -> 163...	1/12/2017 9:05 PM	P2-B6	5.343	40	0.79	208.1 -> 105...			MDEA-D6	214.2 -> 166...	5.343	644556									
MDMA	194.1 -> 163...	1/12/2017 9:05 PM	P2-B6				194.1 -> 105...			MDMA-D6	200.2 -> 166...	5.203	57322									
Meperidine	248.2 -> 220...	1/12/2017 9:05 PM	P2-B6	5.725	657120	Infinity	248.2 -> 174...		1744230...	Meperidine-D4	252.2 -> 224...	5.725	337545									
Methyphenidate	234.2 -> 84.2	1/12/2017 9:05 PM	P2-B6	5.461	301	0.94	234.2 -> 56.3		4.45	Meperidine-D4	252.2 -> 224...	5.725	337545									
Metoprolol	288.2 -> 116...	1/12/2017 9:05 PM	P2-B6	6.914	24	0.73	288.2 -> 56.3			Meperidine-D4	252.2 -> 224...	5.725	337545									
Midazolam	326.1 -> 223...	1/12/2017 9:05 PM	P2-B6	6.914	24	0.73	326.1 -> 249...		1.42	Midazolam-D4	330.1 -> 295...	6.650	501330									
Mirtazapine	266.2 -> 195...	1/12/2017 9:05 PM	P2-B6	5.496	44	0.65	266.2 -> 72.3		2.06	Midazolam-D4	330.1 -> 295...	6.650	501330									
Mitragynine	399.2 -> 174...	1/12/2017 9:05 PM	P2-B6				399.2 -> 238...			Carbamazepine-13C6	243.1 -> 200...	6.196	13069...									
Normeperidine	234.1 -> 42.3	1/12/2017 9:05 PM	P2-B6	5.462	25874	15.50	234.1 -> 160...	✓		Normeperidine-D4	238.2 -> 164...	5.706	368216									
Norpropoxyphene	326.2 -> 44.3	1/12/2017 9:05 PM	P2-B6	6.325	29	0.45	326.2 -> 252...			Norpropoxyphene-D5	331.2 -> 233...	6.305	176687									
Nortriptyline	284.2 -> 91.2	1/12/2017 9:05 PM	P2-B6	6.601	7893	8.55	284.2 -> 233...	✓		Nortriptyline-D3	267.2 -> 233...	6.478	585182									
Ondansetron	294.2 -> 184...	1/12/2017 9:05 PM	P2-B6	6.396	34	0.76	294.2 -> 212...		14.39	Pentazocine-13C3	289.2 -> 72.3	5.761	473657									
Pentazocine	286.2 -> 218...	1/12/2017 9:05 PM	P2-B6	5.761	73	43.11	286.2 -> 41.3	✓	0.30	Pentazocine-13C3	289.2 -> 72.3	5.761	473657									
Phenazepam	349.0 -> 206...	1/12/2017 9:05 PM	P2-B6	6.527	1785	11.67	349.0 -> 183...	✓		Phenazepam-D4	353.0 -> 183...	6.567	15436									
Phencyclidine	244.2 -> 86.2	1/12/2017 9:05 PM	P2-B6	5.930	22	0.35	244.2 -> 91.1		1.69	Phencyclidine-D5	249.2 -> 86.2	5.991	10191...									
Phenytolol	253.1 -> 104...	1/12/2017 9:05 PM	P2-B6	5.971	281	0.70	253.1 -> 182...		0.58	Phenytolol-D10	263.2 -> 192...	6.093	19312									
Prizepam	325.1 -> 271...	1/12/2017 9:05 PM	P2-B6				325.1 -> 140...			Prizepam-D5	330.1 -> 276...	6.995	12139...									
Primidone	219.1 -> 91.2	1/12/2017 9:05 PM	P2-B6	5.647	1330	2.45	219.1 -> 162...			Prizepam-D5	330.1 -> 276...	6.995	12139...									
Propoxyphene	340.2 -> 58.3	1/12/2017 9:05 PM	P2-B6	6.284	72	0.68	340.2 -> 266...			Propoxyphene-D11	351.3 -> 277...	6.323	304913									
Protriptyline	264.2 -> 155...	1/12/2017 9:05 PM	P2-B6				264.2 -> 161...			Nortriptyline-D3	267.2 -> 233...	6.478	585182									
Pseudoephedrine	166.1 -> 148...	1/12/2017 9:05 PM	P2-B6	4.762	1067	0.90	166.1 -> 133...		0.72	Pseudoephedrine-D3	169.1 -> 151...	4.741	567982									
Tapentadol	222.2 -> 107...	1/12/2017 9:05 PM	P2-B6				222.2 -> 121...			Tapentadol-D3	225.2 -> 107...	5.545	908609									
Trimipramine	295.2 -> 100...	1/12/2017 9:05 PM	P2-B6	6.534	463	1.41	295.2 -> 58.3			Trimipramine-D3	298.2 -> 103...	6.554	20147...									
Verapamil	455.3 -> 165...	1/12/2017 9:05 PM	P2-B6	6.098	55	0.78	455.3 -> 150...			Trimipramine-D3	298.2 -> 103...	6.554	20147...									
Zaleplon	306.1 -> 236...	1/12/2017 9:05 PM	P2-B6				306.1 -> 264...			Zaleplon-D4	310.2 -> 240...	6.287	279683									
Zopiclone	389.1 -> 244...	1/12/2017 9:05 PM	P2-B6				389.1 -> 216...			Zopiclone-D4	393.1 -> 244...	6.160	242061									

Sample name External control P2

Negative

Compound Method			p2 external control				p2 external control Results				ISTD Method				ISTD Results	
Name	Transition	Acq. Date-Time	Pos.	RT	Resp.	S/N	Transition	S/N	Qualifi...	Name	Transition	RT	Resp.	RT	Resp.	
7-aminoflunitrazepam	284.1 -> 135...	1/12/2017 8:46 PM	P2-A6	5.863	1878	4.91	284.1 -> 93.2	2.84	7-aminoflunitrazepam-D7	291.2 -> 138...	5.780	265958				
alpha-hydroxymidazolam	342.1 -> 324...	1/12/2017 8:46 PM	P2-A6	6.527	95	1.81	342.1 -> 203...	0.62	alpha-hydroxymidazolam...	346.1 -> 328...	6.507	439421				
Amitriptyline	278.2 -> 91.2	1/12/2017 8:46 PM	P2-A6	6.395	1790	0.56	278.2 -> 105...	0.52	Amitriptyline-D3	281.2 -> 91.2	6.516	485418				
Amoxapine	314.1 -> 271...	1/12/2017 8:46 PM	P2-A6	6.531	✓ 776	5.00	314.1 -> 193...	663.27	Amitriptyline-D3	281.2 -> 91.2	6.516	485418				
Benzoyllecgonine	290.1 -> 168...	1/12/2017 8:46 PM	P2-A6				290.1 -> 105...		Benzoyllecgonine-D8	298.2 -> 171...	5.390	5594				
Carbamazepine	237.1 -> 193...	1/12/2017 8:46 PM	P2-A6	5.993	26	0.58	237.1 -> 194...	0.76	Carbamazepine-13C6	243.1 -> 200...	6.196	13473...				
Chlordiazepoxide	300.1 -> 227...	1/12/2017 8:46 PM	P2-A6	6.391	4586	5.76	300.1 -> 282...	✓ 0.76	Chlordiazepoxide-D5	305.1 -> 286...	6.655	302894				
Clomipramine	315.2 -> 86.2	1/12/2017 8:46 PM	P2-A6	6.693	58	0.36	315.2 -> 58.3		Clomipramine-D3	318.2 -> 89.2	6.713	19104...				
Cocaine	304.2 -> 182...	1/12/2017 8:46 PM	P2-A6	5.779	583	1.81	304.2 -> 105...	0.44	Cocaine-D3	307.2 -> 185...	5.696	742045				
Desipramine	267.2 -> 72.3	1/12/2017 8:46 PM	P2-A6	6.437	1654	2.91	267.2 -> 44.3	13.51	Desipramine-D3	270.2 -> 75.3	6.436	14057...				
Doxepin	280.2 -> 107...	1/12/2017 8:46 PM	P2-A6	6.191	85	0.90	280.2 -> 77.2	2.47	Doxepin-D3	283.2 -> 107...	6.231	625507				
Estazolam	295.1 -> 267...	1/12/2017 8:46 PM	P2-A6	6.616	42	3.39	295.1 -> 205...	96.05	Estazolam-D5	300.1 -> 272...	6.451	299725				
Flunitrazepam	314.1 -> 268...	1/12/2017 8:46 PM	P2-A6	6.491	1509	4.75	314.1 -> 239...	0.64	Flunitrazepam-D7	321.1 -> 245...	6.490	18045				
Flurazepam	388.2 -> 315...	1/12/2017 8:46 PM	P2-A6	6.119	25	0.59	388.2 -> 317...		Zopiclone-D4	393.1 -> 244...	6.159	254650				
Imipramine	281.2 -> 86.2	1/12/2017 8:46 PM	P2-A6	6.516	2662	305.70	281.2 -> 58.3	✓ 1.98	Imipramine-D3	284.2 -> 61.3	6.475	10630...				
Levamisole	205.1 -> 91.2	1/12/2017 8:46 PM	P2-A6				205.1 -> 178...		Cocaine-D3	307.2 -> 185...	5.696	742045				
Maprotiline	278.2 -> 91.2	1/12/2017 8:46 PM	P2-A6	6.395	1790	0.56	278.2 -> 117...	2.53	Meperidine-D4	252.2 -> 224...	5.725	363330				
MDA	180.1 -> 163...	1/12/2017 8:46 PM	P2-A6				180.1 -> 105...		MDA-D5	185.1 -> 168...	5.083	308212				
MDEA	208.1 -> 163...	1/12/2017 8:46 PM	P2-A6	5.282	180	0.82	208.1 -> 105...	0.60	MDEA-D6	214.2 -> 166...	5.343	664192				
MDMA	194.1 -> 163...	1/12/2017 8:46 PM	P2-A6				194.1 -> 105...		MDMA-D6	200.2 -> 166...	5.203	55712				
Meperidine	248.2 -> 220...	1/12/2017 8:46 PM	P2-A6	5.499	16	0.22	248.2 -> 174...	1.77	Meperidine-D4	252.2 -> 224...	5.725	363330				
Methyphenidate	234.2 -> 84.2	1/12/2017 8:46 PM	P2-A6				234.2 -> 56.3		Meperidine-D4	252.2 -> 224...	5.725	363330				
Metoprolol	268.2 -> 116...	1/12/2017 8:46 PM	P2-A6				268.2 -> 56.3		Meperidine-D4	252.2 -> 224...	5.725	363330				
Midazolam	326.2 -> 116...	1/12/2017 8:46 PM	P2-A6				326.2 -> 56.3		Midazolam-D4	330.1 -> 295...	6.650	516453				
Mirtazapine	266.2 -> 195...	1/12/2017 8:46 PM	P2-A6	6.010	122	0.46	266.2 -> 72.3	0.69	Midazolam-D4	330.1 -> 295...	6.650	516453				
Mitragynine	399.2 -> 174...	1/12/2017 8:46 PM	P2-A6				399.2 -> 238...		Carbamazepine-13C6	243.1 -> 200...	6.196	13473...				
Normeperidine	234.1 -> 42.3	1/12/2017 8:46 PM	P2-A6	5.625	84	27.79	234.1 -> 160...	✓	Normeperidine-D4	238.2 -> 164...	5.706	372438				
Norpropoxyphene	326.2 -> 44.3	1/12/2017 8:46 PM	P2-A6	6.325	157	1.08	326.2 -> 252...		Norpropoxyphene-D5	331.2 -> 44.3	6.305	175248				
Notriptyline	264.2 -> 91.2	1/12/2017 8:46 PM	P2-A6	6.601	7531	12.46	264.2 -> 233...	0.83	Notriptyline-D3	267.2 -> 233...	6.478	592581				
Ondansetron	294.2 -> 184...	1/12/2017 8:46 PM	P2-A6	<del>6.392</del>	127	1.21	294.2 -> 212...	1.24	Pentazocine-13C3	289.2 -> 72.3	5.761	478558				
Pentazocine	286.2 -> 218...	1/12/2017 8:46 PM	P2-A6				286.2 -> 41.3		Pentazocine-13C3	289.2 -> 72.3	5.761	478558				
Phenazepam	349.0 -> 206...	1/12/2017 8:46 PM	P2-A6	6.506	1793	446.76	349.0 -> 183...	✓	Phenazepam-D4	353.0 -> 183...	6.567	17442				
Phencyclidine	244.2 -> 86.2	1/12/2017 8:46 PM	P2-A6	6.053	142	0.88	244.2 -> 91.1	Infinity	Phencyclidine-D5	249.2 -> 86.2	5.991	10113...				
Phenytolol	253.1 -> 104...	1/12/2017 8:46 PM	P2-A6	6.031	435	0.47	253.1 -> 182...		Phenytolol-D10	263.2 -> 192...	6.093	16809				
Prazepam	325.1 -> 271...	1/12/2017 8:46 PM	P2-A6	7.155	35	0.22	325.1 -> 140...	0.24	Prazepam-D5	330.1 -> 276...	6.995	12273...				
Primidone	219.1 -> 91.2	1/12/2017 8:46 PM	P2-A6	5.627	983	1.20	219.1 -> 162...	0.80	Prazepam-D5	330.1 -> 276...	6.995	12273...				
Propoxyphene	340.2 -> 58.3	1/12/2017 8:46 PM	P2-A6	6.345	21	0.45	340.2 -> 266...	1.22	Propoxyphene-D11	351.3 -> 277...	6.323	318391				
Propiptyline	264.2 -> 155...	1/12/2017 8:46 PM	P2-A6	6.377	293	2.92	264.2 -> 161...	17.41	Notriptyline-D3	267.2 -> 233...	6.478	592581				
Pseudoephedrine	166.1 -> 148...	1/12/2017 8:46 PM	P2-A6	4.762	1356	0.54	166.1 -> 133...	0.82	Pseudoephedrine-D3	169.1 -> 151...	4.741	566796				
Tapentadol	222.2 -> 107...	1/12/2017 8:46 PM	P2-A6	5.545	112	0.51	222.2 -> 121...	1.00	Tapentadol-D3	225.2 -> 107...	5.544	935481				
Trimipramine	295.2 -> 100...	1/12/2017 8:46 PM	P2-A6	6.575	365	1.39	295.2 -> 58.3		Trimipramine-D3	298.2 -> 103...	6.534	20392...				
Verapamil	455.3 -> 165...	1/12/2017 8:46 PM	P2-A6	6.159	84	2.44	455.3 -> 150...		Trimipramine-D3	298.2 -> 103...	6.534	20392...				
Zaleplon	306.1 -> 236...	1/12/2017 8:46 PM	P2-A6	6.308	53	0.71	306.1 -> 264...	3.35	Zaleplon-D4	310.2 -> 240...	6.287	278405				
Zopiclone	389.1 -> 244...	1/12/2017 8:46 PM	P2-A6	6.160	117	1.14	389.1 -> 216...		Zopiclone-D4	393.1 -> 244...	6.159	254650				

Sample Negative control b

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

Extraction Date: 1-12-17

Analyst: Anne Nore

### PRE-ANALYTIC

Plate Lot# \_\_\_\_\_ Stock THC plate: 0483844 Plate Exp: 6/15/17

- 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: **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: 1-12-17 AMN blood screen AM 25-26

### ANALYTIC

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

### POST-ANALYTIC

- 1. Open quantitation software and create a new quantitation batch. Batch name: 01/21/17 Cann screen
- 2. Make any necessary integration changes.
- 3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% retention time of calibrators?
- 4. Did QCs pass for each analyte? Y / N \_\_\_\_\_
- 5. Central File Packet to include:  LIMS Worklist:  Method Checklist  Calibration and Control Reports

Comments:

# ISP FORENSICS - Cd'A

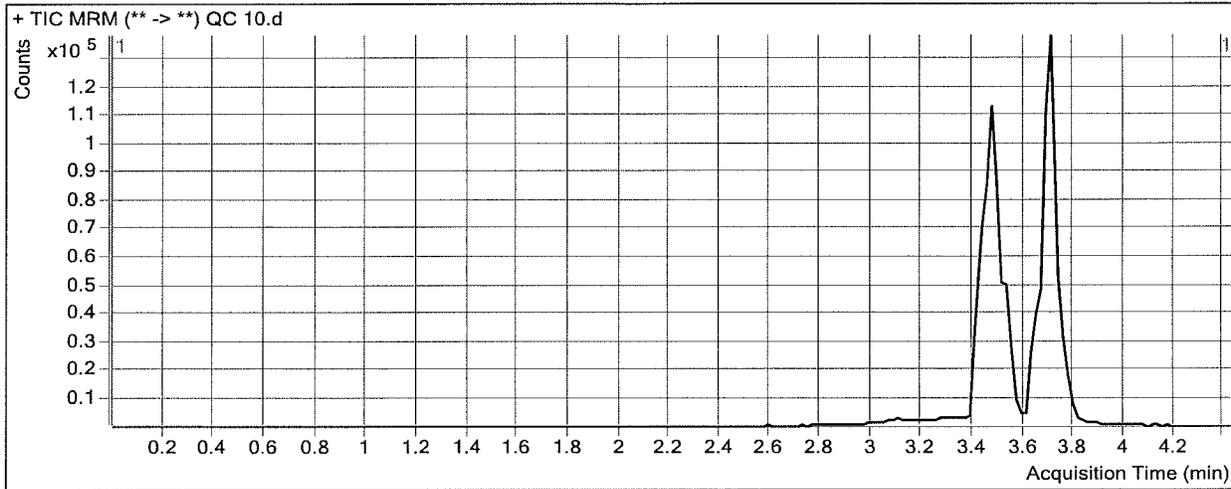
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 16:27 **Data File** QC 10.d  
**Sample Type** QC **Sample Name** QC 10  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-A3 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	32398	419023	0.0773	9.4498
THC-COOH	3.526	24092	116008	0.2077	10.2261
THC	3.760	4004	41703	0.0960	10.1925

# ISP FORENSICS - Cd'A

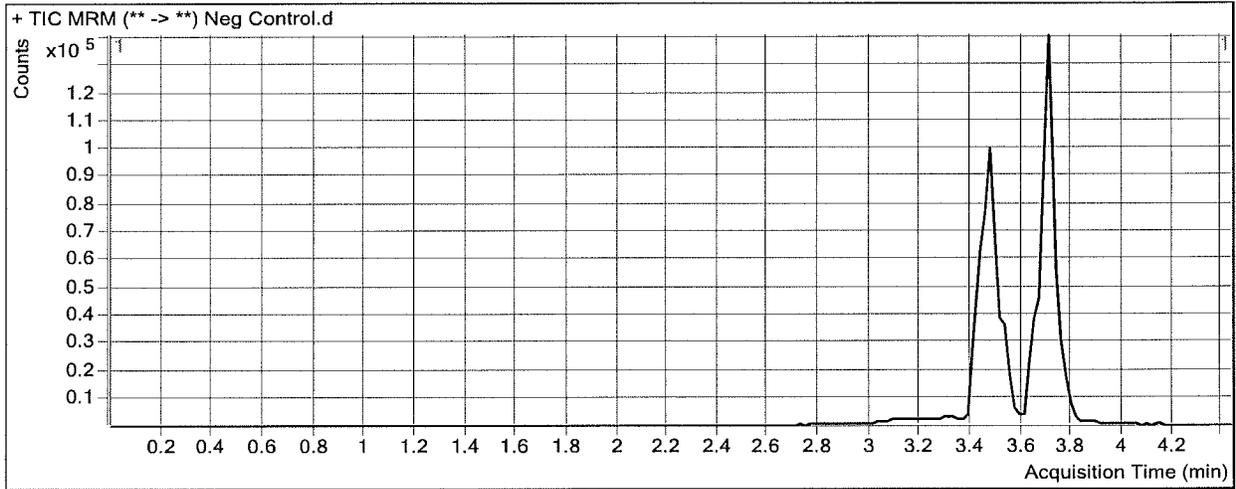
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 16:14 **Data File** Neg Control.d  
**Sample Type** Sample **Sample Name** Neg Control  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-a2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



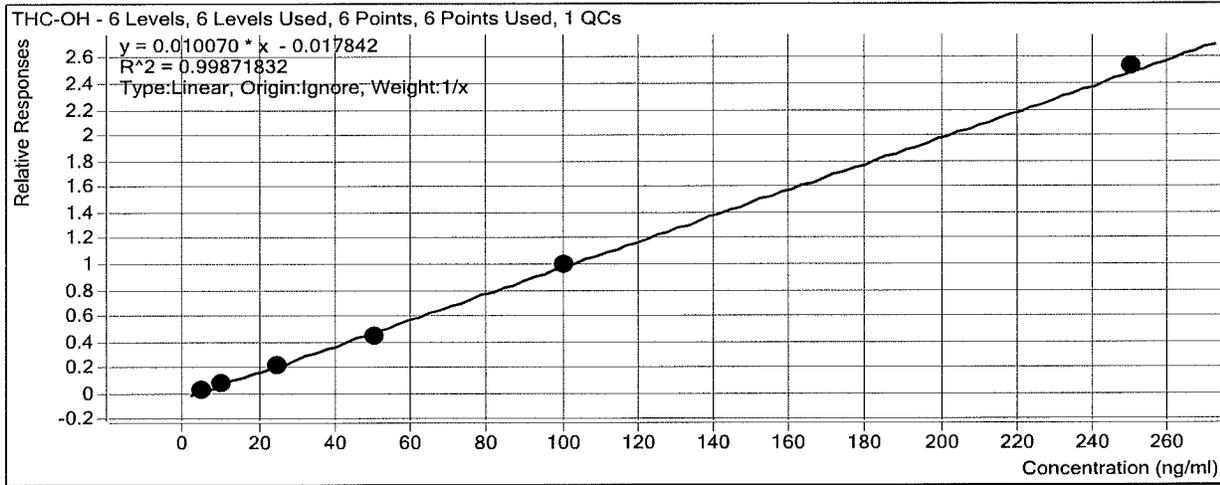
### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.513	542	399621	0.0014	1.9065
THC-COOH	3.526	2430	103212	0.0235	0.8629

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Last Calib Update** 1/13/2017 7:58 AM **Analyst Name** ISP TOX

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



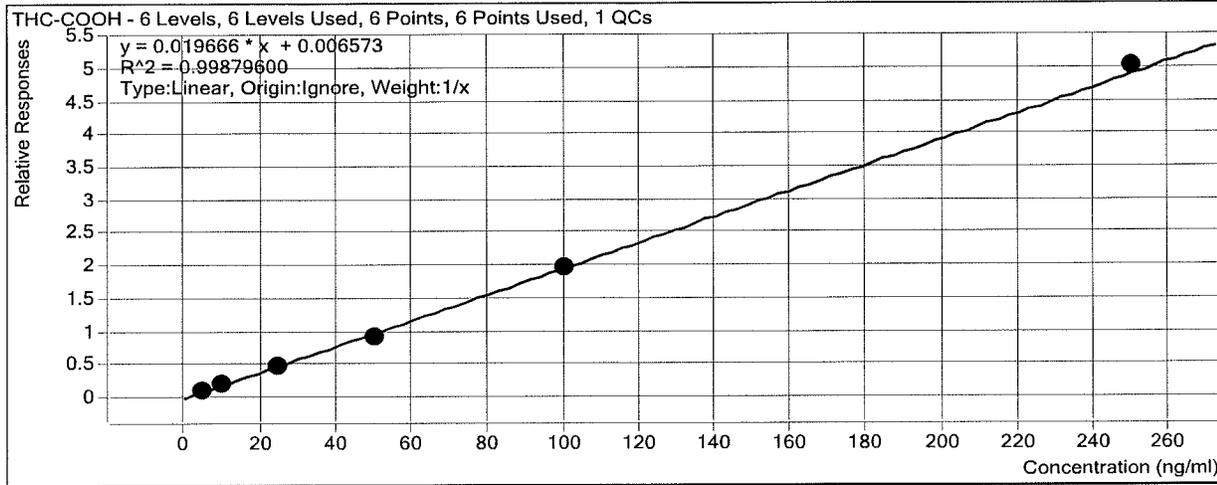
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.6	112.8
cal 3	3	<input checked="" type="checkbox"/>	10	9.7	97.3
QC 10	3	<input checked="" type="checkbox"/>	10	9.4	94.5
cal 4	4	<input checked="" type="checkbox"/>	25	23.4	93.8
cal 5	5	<input checked="" type="checkbox"/>	50	46.8	93.7
cal 6	6	<input checked="" type="checkbox"/>	100	101.2	101.2
cal 7	7	<input checked="" type="checkbox"/>	250	253.2	101.3

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin

**Last Calib Update** 1/13/2017 7:58 AM      **Analyst Name** ISP TOX

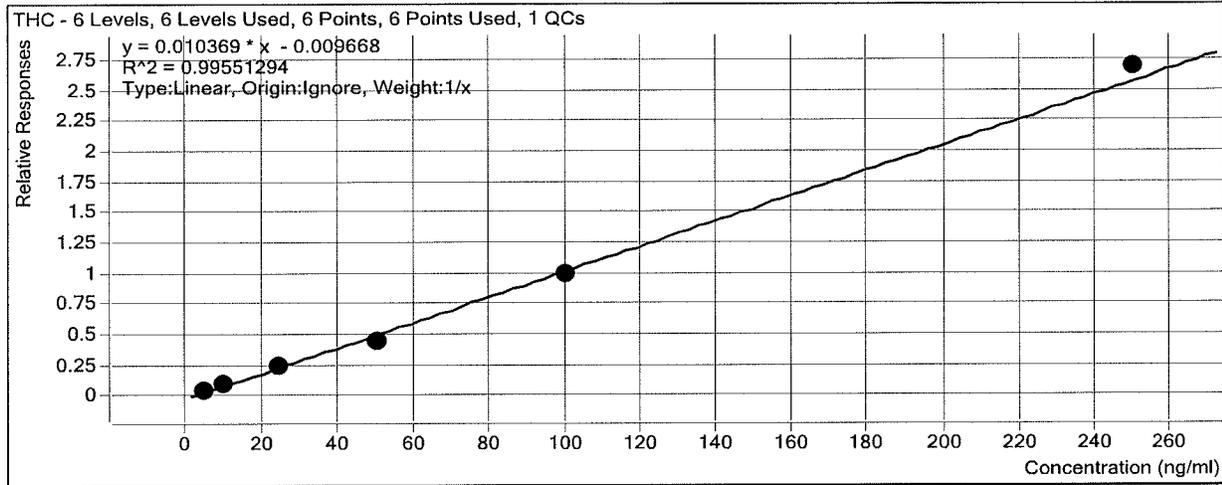
**Target Compound** *THC-COOH*  
**Internal Standard** *THC-COOH-d9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.4	108.9
cal 3	3	<input checked="" type="checkbox"/>	10	10.0	99.7
QC 10	3	<input checked="" type="checkbox"/>	10	10.2	102.3
cal 4	4	<input checked="" type="checkbox"/>	25	24.4	97.6
cal 5	5	<input checked="" type="checkbox"/>	50	46.3	92.7
cal 6	6	<input checked="" type="checkbox"/>	100	99.2	99.2
cal 7	7	<input checked="" type="checkbox"/>	250	254.6	101.8

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Last Calib Update** 1/13/2017 7:58 AM **Analyst Name** ISP TOX  
**Target Compound** *THC*  
**Internal Standard** *THC-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	<input checked="" type="checkbox"/>	5	5.9	118.3
cal 3	3	<input checked="" type="checkbox"/>	10	9.6	96.2
QC 10	3	<input checked="" type="checkbox"/>	10	10.2	101.9
cal 4	4	<input checked="" type="checkbox"/>	25	24.5	98.0
cal 5	5	<input checked="" type="checkbox"/>	50	43.4	86.9
cal 6	6	<input checked="" type="checkbox"/>	100	96.7	96.7
cal 7	7	<input checked="" type="checkbox"/>	250	259.8	103.9

# ISP FORENSICS - Cd'A

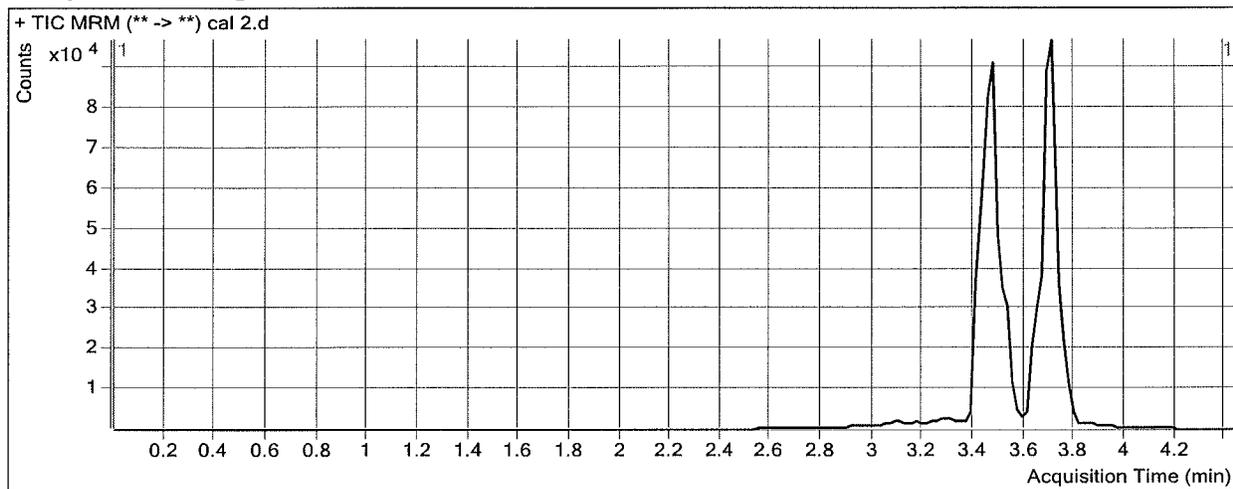
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 15:40 **Data File** cal 2.d  
**Sample Type** Calibration **Sample Name** cal 2  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-B1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	13482	346073	0.0390	5.6405
THC-COOH	3.526	9659	84981	0.1137	5.4452
THC	3.760	1430	27692	0.0517	5.9142

# ISP FORENSICS - Cd'A

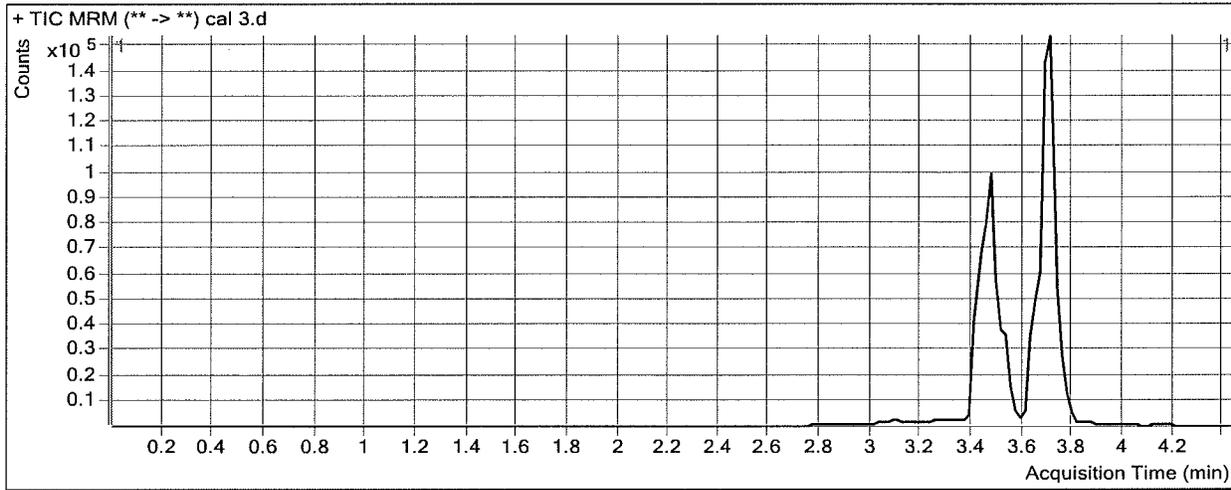
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 15:47 **Data File** cal 3.d  
**Sample Type** Calibration **Sample Name** cal 3  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-C1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	28841	359938	0.0801	9.7289
THC-COOH	3.526	17872	88178	0.2027	9.9718
THC	3.740	2599	28846	0.0901	9.6201

# ISP FORENSICS - Cd'A

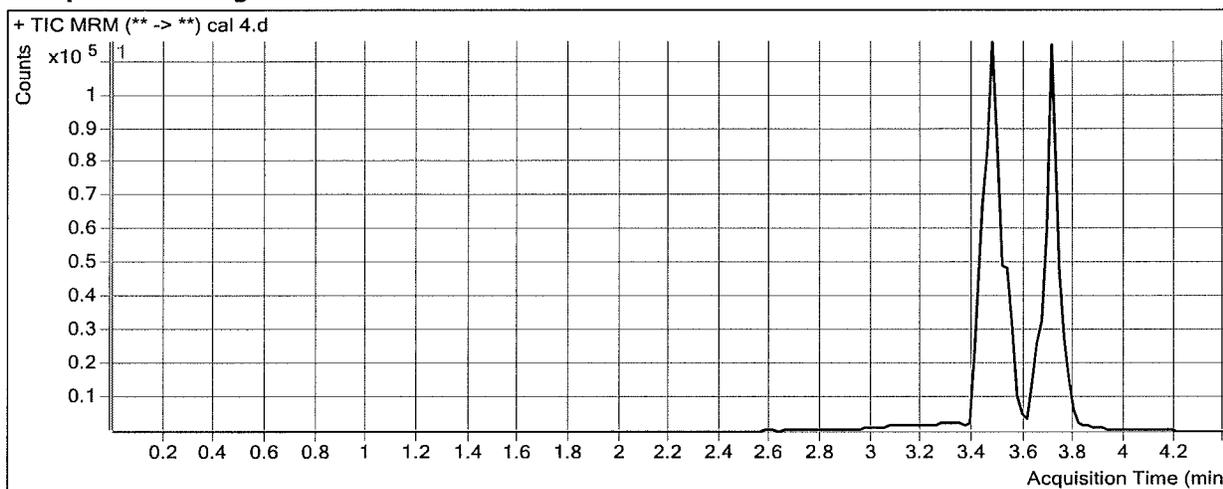
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 15:54 **Data File** cal 4.d  
**Sample Type** Calibration **Sample Name** cal 4  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-D1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	77503	355095	0.2183	23.4460
THC-COOH	3.526	43100	88563	0.4867	24.4120
THC	3.760	7913	32377	0.2444	24.5043

# ISP FORENSICS - Cd'A

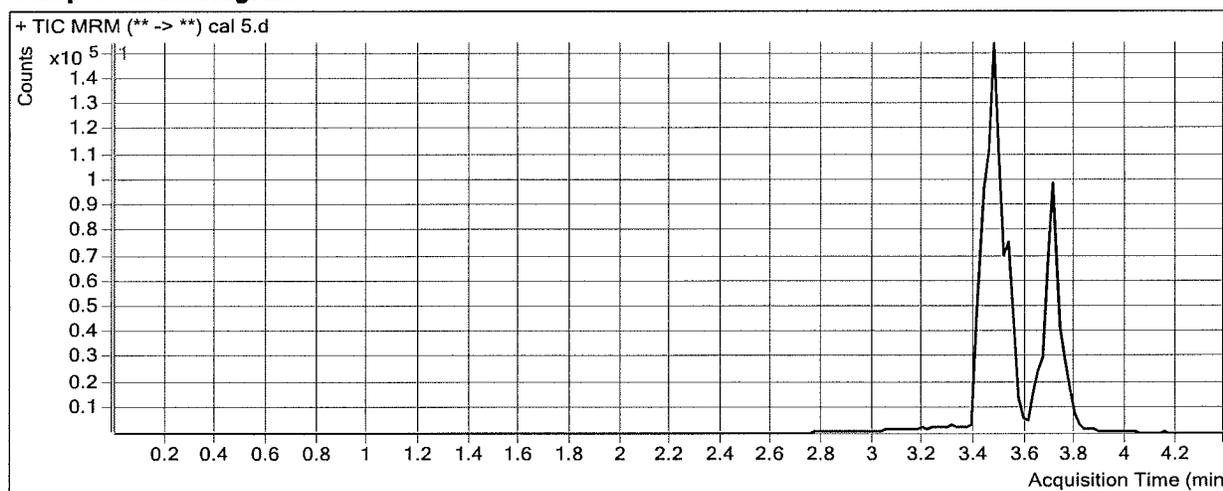
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 16:00 **Data File** cal 5.d  
**Sample Type** Calibration **Sample Name** cal 5  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-E1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	180937	398767	0.4537	46.8303
THC-COOH	3.526	92148	100419	0.9176	46.3275
THC	3.760	16304	36991	0.4407	43.4383

# ISP FORENSICS - Cd'A

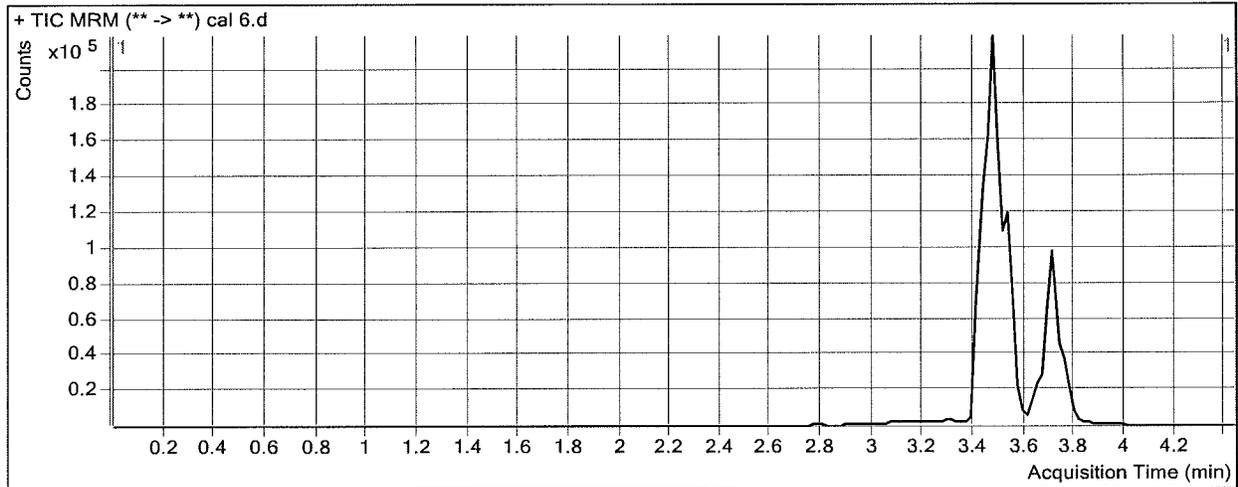
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 16:07 **Data File** cal 6.d  
**Sample Type** Calibration **Sample Name** cal 6  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-F1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	397683	397216	1.0012	101.1929
THC-COOH	3.526	195911	100056	1.9580	99.2300
THC	3.760	38384	38660	0.9929	96.6866

# ISP FORENSICS - Cd'A

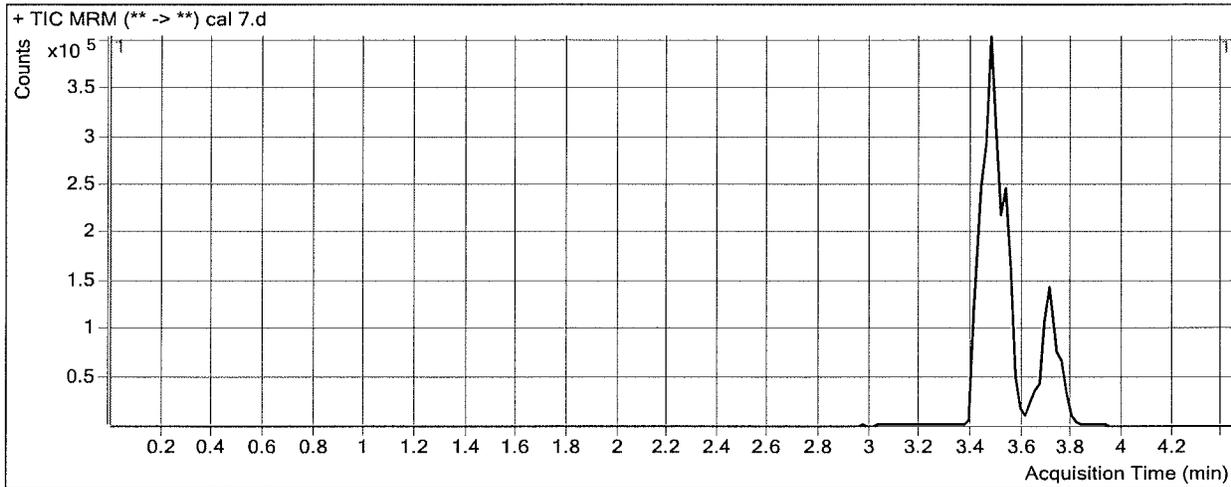
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\1-12-16 AMN blood screen AM 25-26\QuantResults\011217 cann screen.batch.bin  
**Analysis Time** 1/13/2017 8:06 AM **Analyst Name** ISP Tox  
**Report Time** 1/13/2017 8:08 AM **Reporter Name** ISP Tox  
**Last Calib Update** 1/13/2017 8:06 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-01-12 16:20 **Data File** cal 7.d  
**Sample Type** Calibration **Sample Name** cal 7  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-G1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.473	1036437	409416	2.5315	253.1614
THC-COOH	3.526	490005	97732	5.0138	254.6136
THC	3.760	108874	40556	2.6845	259.8365

**Idaho State Police  
Forensic Services  
Toxicology Discipline**

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**Request for Departure from an Analytical Method**

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Date of Request

12/14/16

Analytical Method

AM 25 multidrug screen

Deviation

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

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

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

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

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

**Discipline Leader Review**

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Departure approved

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

Departure Not Approved

Comments:



Celena Shrum

Date: 12/14/16

Celena Shrum

Toxicology Program Discipline Leader

A handwritten signature, possibly reading "Celena Shrum", located in the bottom right corner of the page.