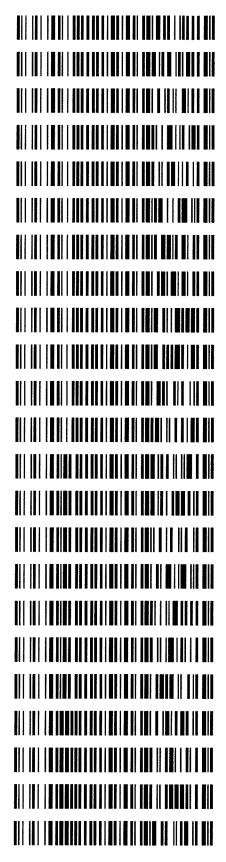
Worklist: 2851

LAB CASE	<u>ITEM</u>	TASK ID	<u>DESCRIPTION</u>
C2018-2341	1	132341	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
C2018-2410	1	133094	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2442	1	133543	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
C2018-2445	2	133611	AM 25/AM 26 Blood MultiDrug/THC Screen by Li
C2018-2446	1	133620	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2459	1	133833	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2463	1	133935	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2476	1	134130	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
C2018-2489	1	134275	AM 25/AM 26 Blood MultiDrug/THC Screen by Lu
C2018-2492	1	134282	AM 25/AM 26 Blood MultiDrug/THC Screen by Le
C2018-2507	1	134356	AM 25/AM 26 Blood MultiDrug/THC Screen by Lu
C2018-2521	1	134617	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
M2018-5908	2	133077	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
M2018-5910	3	133084	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
M2018-5936	1	133255	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
M2018-5994	1	133499	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
M2018-6026	1	133603	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
M2018-6044	1	133704	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
M2018-6075	1	134106	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
P2018-3407	1	133510	AM 25/AM 26 Blood MultiDrug/THC Screen by LI
P2018-3429	1	133674	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
P2018-3430	1	133677	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
P2018-3487	1	134268	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt





AM# 25: Multi-Drug Screen in Blood by LC-MS/MS

Extraction Date: 12-19-18 Analyst: Anne Nord

Plate lot#: 0543908 Plate Expiration: November 28 2019

Mobile phase A: 10mM Amm Form
0.5M Ammonium Hydroxide

Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate

LC Methanol

Blank Blood Lot: 18G207D7 Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

LCMS-QQQ ID: 62340

Pre-Analytic:

- ☑ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.

Analytic:

- ☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- Σ 2. Pipette 250μL blood (calibrated pipette) Pipette ID: 1926134 in wells of analytical (standards) plate.
- □ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 66759
- □ 4. Pipette 250μL 00.5M ammonium hydroxide in wells of analytical plate.

- \boxtimes 8. Wait 5 minutes.
- ∅ 9. Add 900uL ethyl acetate.
- \boxtimes 10. Wait 5 minutes.
- △ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- □ 12. Add 900uL ethyl acetate.
- \boxtimes 13. Wait 5 minutes.
- △ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- Δ 16. Reconstitute in 100μL 100% LC 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: 121918 AM 25-26 Worklist path: mdsp1, mdsp2
- ✓ 2. Make necessary changes to integration limits
- ⊠ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/3 the response of administrative control.
- □ 4. Did all QCs pass for each analyte?
- ⊠ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

A

Toxicology AM method 25 external prep information

working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline

Stock solution 1mg/ml 100 ul each in 9600ul meOH

Ppd 4/23/18 Exp: 4/23/19 lot 42318 b

by Amn

 Drug
 lot
 expiration

 Hydromorphone
 FE04101502
 6/1/2020

 Hydrocodone
 FE09091505
 9/1/2020

 nortriptyline
 FN06191503
 8/1/2020

 sertraline
 FN01081501
 3/1/2020

AM 25 control 100 ul working solution (42318) in 9900 ul neg blood

ppd 04/23/18 exp 4/23/19 lot 42318

neg blood lot 17J20718

by Amn



Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

Compound Method Name 6-MAM 7-aminoclonazepam Benzoylecgonine 2	Transit 128.2 -> 186.1 -> 190.1 ->	p1 cal 1-1a Acq. Date-Time 12/19/2018 3:32 PM 12/19/2018 3:32 PM 12/19/2018 3:32 PM		D		Qualifi Trar 328.2 328.1 2286.1 290.1	r 1 M sition > 211 > 222 > 105	M	M Qualifier 1 Result n S/N Area 11 3.50 802 22 210.14 13104 25 2220 7077 3.3 106.89 17853	M Qualifier 1 Results n S/N Area MI 11 3.50 802 [22 210.14 13104 [25 2220 7077 [3.3 106.89 17853 [M Qualifier 1 Results ISTD Method n S/N Area MI Name 11 3.50 802 6-MAM-D6 6-MAM-D6 22 210.14 13104 7-Aminoclonazepam-D4 05 2220 7077 Benzoylecgonine-D8 3.3 106.89 17853 Noroxycodone-D3
Metoproiol	· V	12/19/2018 3:32 PM	5.573	15384	3334.28	, v	īω		106.89 1	106.89 17853	106.89 17853 Noroxycodone-D3
a-hydroxyalprazolam alpha-PVP	2325.1 -> 29/ 232 2 -> 91.0	12/19/2018 3:32 PM	5.885	110446	68.86	232.2 ->	77.1	77.1 45.83	T:	45.83	45.83 43862
Alprazolam	V	12/19/2018 3:32 PM	6.465	28584	318.81	309.1 -> 2	205	CD	. 5898	. 5898 29668	. 5898 29668 🗂
Amphetamine	136.1 -> 91.1	12/19/2018 3:32 PM	4.972	159093	105.57	136.1 -> 1	119	119 28.56		28.56 1088	28.56 1088 Amphetamine-D11
Cocaine	304.2 -> 182	12/19/2018 3:32 PM	5.834	106248	216.56	304.2 ->	105	N		219.69	219.69 25968 Cocaine-D3
Bupropion	240.1 -> 184	12/19/2018 3:32 PM	6.129	97091	20853.58	240.1 ->	131	131	131 99.06	131 99.06 46966	131 99.06 46966 Bupropion-D9
Carisoprodol	261.2 -> 176	12/19/2018 3:32 PM	6.147	35764	184.13	261.2 ->	-> 55.3		34.80	34.80 41888	34.80 41888 Carisoprodol-D7
Citalopram	V	12/19/2018 3:32 PM	6.175	112623	52.08	325.2 -	-> 262	262 4	262 4	262 4407 25795	262 4407 25795 Citalopram-D6
Clonazepam	V		6.340	10244	20.06	316.1 ->	-> 213	213	213	213 22.97 2440	213 22.97 2440
Codeine			5.324	6031	2387.68	300.2	↓	-> 165	-> 165	-> 165 69.61 5250 <u> </u>	-> 165 69.61 5250 T Codeine-D6
Cyclobenzaprine	٧	12/19/2018 3:32 PM	6.471	71623	348.15	276.2	2 -> 231	V	-> 231	-> 231 42.79	-> 231 42.79 24319
Dextromethorphan	V	12/19/2018 3:32 PM	6.185	31701	124.81	272.2	V	-> 147	-> 147 91.53	-> 147 91.53 25934	-> 147 91.53 25934 T Dextromethorphan-D3
Dextrorphan	V	12/19/2018 3:32 PM	5.596	27010	4317.07	258.2	V	-> 133	-> 133	-> 133 1610 17075 T	-> 133 1610 17075 T
Diazepam	V	12/19/2018 3:32 PM	6.691	29620	88.57	285.1	Ÿ	-> 153	-> 153	-> 153 81.21 18475 🗂	-> 153 81.21 18475 🗂
Dihydrocodeine	302.2 -> 198	12/19/2018 3:32 PM	5.038	14513	22.59	302.2	-> 128		128	128 1685 9871	128 1685 9871
Diphenhydramine	256.2 -> 167	12/19/2018 3:32 PM	6.148	212877	194.76	256.2 -	-> 152		152	152 97.90 54383	152 97.90 54383
Doxylamine	271.2 -> 182	12/19/2018 3:32 PM	5.778	147572	58.81	271.2 ->	× 167		167	167 55.58 1013	167 55.58 1013
EDDP	V	12/19/2018 3:32 PM	6.082	120451	27885.72	V	250	N	2374	2374 35502	2374 35502 EDDP-D3
Fentanyl		12/19/2018 3:32 PM	6.520	17923	17.95	337.2 ->	188	188 65.81		26 E2 4062 F	26 E2 4062 F
Hydrocodone	300.7 -> 198	12/19/2018 3:32 PM	5 507	22193	Infinity	↓ •	128		Infinity 1	Infinity	Infinity 10092 Hydrocodone-D6
Hydromorphone	۷	12/19/2018 3:32 PM	4.860	11274	16.46	V	157		Infinity	Infinity 7419	Infinity 7419 Hydromorphone-D6
Ketamine	238.1 -> 125		6.109	72980	175.43	" 238.1 -> 2	20	·········	·········	16.20 27743	16.20 27743
Mirtazapine	266.2 -> 195	12/19/2018 3:32 PM	6.473	135716	791.39	266.2 -> 72.3	ယ			Infinity	Infinity 86385
Mitragynine	399.2 -> 238	12/19/2018 3:32 PM	6.517	21111	120.94	V	174	ļ.,	. 314.34	. 314.34 45371	. 314.34 45371 Tramadol-13C-D3
Meprobamate	V		5.701	15153	38.58			1-	97.17	97.17 15282	97.17 15282 Meprobamate-D7
Methadone	310.2 -> 265		6.362	112065	25630.31	\ <u>`</u>	5		145.08	145.08 1169	145.08 1169 Methadone-D9
Mernhine	750.7 -> 97.7	12/19/2018 3:32 PM	2 508	3/6620	18 64	7862 -> 165	3 5	19 33.45 65 370		33.45	3.70 2091
Norbuprenorphine	v		6.029	3279	32.89		7.3	7.3	7.3 16.65	7.3 16.65 4235	7.3 16.65 4235 Norbuprenorphine-D3
Nordiazepam	271.1 -> 140		6.553	13605	147.56	271.1 -> 208	08		33.22	33.22 8666	33.22 8666
Norfentanyl	233.2 -> 84.2	12/19/2018 3:32 PM	5.455	112058	707.27	233.2 -> 55.3	5.3			73.33 34836	73.33 34836 Norfentanyl-D5
Norhydrocodone	286.2 -> 199		5.164	1556	9.22	286.2 -> 1	-> 171	71 Infinity	Infinity 194	Infinity 194	Infinity 194 V Norhydrocodone-D3
Noroxycodone	302.1 -> 284		5.079	11264	9.66	302.1 -> 186	86		14.61	14.61 6871	14.61 6871 Noroxycodone-D3
O-desmethyl-tramadol	V	***	5.088	135427	318.36	V	2.3	_	29.16	29.16 7448	29.16 7448 O-desmethyl-tramadol
Oxazepam	287.1 -> 240	12/19/2018 3:32 PM	6.386	9565	36.15	287.1 -> 2	268	68 12.86		12.86	12.86 5320
Oxymorphone	V		4.574	31990	Infinity	V	27		13.90	13.90 6790	13.90 6790 Oxymorphone-D3
Phentermine	150.1 -> 65.2	12/19/2018 3:32 PM	5.295	36486	13.32	150.1 -> 1:	33	33 Infinity	Infinity 1791	Infinity 1791	Infinity 1791
Promethazine	285.1 -> 86.2	12/19/2018 3:32 PM	6.631	261837	1021.10	<u> 285.1 -> 71</u>	1.3	.3 34.30		34.30	34.30 53689
Olletianine	384.2 -> 253	. 12/19/2018 3:32 PM	6.681	191552	5740.33	384.2 ->	221	221 1076	21	21 1076	21 1076 98103

V _e						
Venlafaxine	Trazodone	Tramadol	Temazepam	Sertraline	Name	Compound Method
278.2 -> 58.3	372.2 -> 176	264.2 -> 58.3	301.1 -> 255	306.1 -> 158	Transition	od
12/19/2018 3:32 PM	12/19/2018 3:32 PM	12/19/2018 3:32 PM	12/19/2018 3:32 PM	12/19/2018 3:32 PM	Acq. Date-Time	p1 cal 1-1a
5.919	6.884	5.595	6.527	6.648	꾸	
142931	168659	162086	45522	48592	Resp.	p1 cal 1-1a Results
136.59	1372.92	93.54	281.69	129.77	S/N M	Results
278.2 -> 260	372.2 -> 148	264.2 -> 43.3	301.1 -> 283	306.1 -> 275	Transition	Qualifier 1 M
27.99	224.73	10.27	11.15	151.23	S/N	Qualifie
29177	1231	9403	16179	42777	Area Mi	Qualifier 1 Results
Venlafaxine-D6	Trazodone-D6	Tramadol-13C-D3	Temazepam-D5	Sertraline-D3	Name	ISTD Method
5.898	6.863	5.594	6.506	6.627	RT	ISTD
631601	780751	763547	213124	207467	Resp.	ISTD Results
	9 278.2 -> 58.3 12/19/2018 3:32 PM 5.919 142931 136.59 7 278.2 -> 260	372.2 -> 176 12/19/2018 3:32 PM 6.884 168659 1372.92 7 372.2 -> 148 224.73 1231 7 Trazodone-D6 278.2 -> 58.3 12/19/2018 3:32 PM 5.919 142931 136.59 7 278.2 -> 260 27.99 29177 7 Venlafaxine-D6	264.2 -> 58.3 12/19/2018 3:32 PM 5.595 162086 93.54 7 264.2 -> 43.3 10.27 9403 7 Tramadol-13C-D3 372.2 -> 176 12/19/2018 3:32 PM 6.884 168659 1372.92 7 372.2 -> 148 224.73 1231 7 Trazodone-D6 278.2 -> 58.3 12/19/2018 3:32 PM 5.919 142931 136.59 7 278.2 -> 260 27.99 29177 7 Venlafaxine-D6	m 301.1 -> 255 12/19/2018 3:32 PM 6.527 45522 281.69	306.1 -> 158 12/19/2018 3:32 PM 6.648 48592 129.77 306.1 -> 275 151.23 42777 Sertraline-D3 6.627 m 301.1 -> 255 12/19/2018 3:32 PM 6.527 45522 281.69 301.1 -> 283 11.15 16179 Temazepam-D5 6.506 264.2 -> 58.3 12/19/2018 3:32 PM 5.595 162086 93.54 264.2 -> 43.3 10.27 9403 Tramadol-13C-D3 5.594 372.2 -> 176 12/19/2018 3:32 PM 6.884 168659 1372.92 782.2 -> 148 224.73 1231 Trazodone-D6 6.863 278.2 -> 58.3 12/19/2018 3:32 PM 5.919 142931 136.59 782.2 -> 260 27.99 29177 Venlafaxine-D6 5.898	me Transition Acq. Date-Time RT Resp. S/N MI Transition S/N Area MI Name 306.1 → 158 12/19/2018 3:32 PM 6.648 48592 129.77



	8 650	∫ Quetiapine-D8			384 2 -> 221		*****			12/10/2018 2-51 DM	384 2 -> 253	Ouetianine
	6.590	Promethazine-D3			285.1 -> 71.3			*********		12/19/2018 3:51 PM	285.1 -> 86.2	Promethazine
54 403140	5.254	Phentermine-D5		•	150.1 -> 133		w.mm.			12/19/2018 3:51 PM	150.1 -> 65.2	Phentermine
32 139514	4.532	Oxymorphone-D3		•	302.1 -> 227	-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		12/19/2018 3:51 PM	302.1 -> 284	Oxymorphone
38 159129	5.238	Oxycodone-D6		•	316.2 -> 241					12/19/2018 3:51 PM	316.2 -> 298	Oxycodone
85 51614		Oxazepam-D5	***************************************	•	287.1 -> 268					12/19/2018 3:51 PM	287.1 -> 240	Oxazepam
68 602746	adol 5.068	O-desmethyl-tramadol	, mared.		250.2 -> 42.3					12/19/2018 3:51 PM	250.2 -> 58.3	O-desmethyl-tramadol
		Noroxycodone-D3	***************************************	•	302.1 -> 186	-				12/19/2018 3:51 PM	302.1 -> 284	Noroxycodone
63 44566	3 5.163	Norhydrocodone-D3	in and		286.2 -> 171					12/19/2018 3:51 PM	286.2 -> 199	Norhydrocodone
	5.455	Norfentanyl-D5			233.2 -> 55.3					12/19/2018 3:51 PM	233.2 -> 84.2	Norfentanyl
52 46993	6.552	Nordiazepam-D5	Angel		271.1 -> 208					12/19/2018 3:51 PM	271.1 -> 140	Nordiazepam
09 22540	D3 6.009	Norbuprenorphine-D3	aparate arrange		414.3 -> 57.3			***************************************		12/19/2018 3:51 PM	414.3 -> 101	Norbuprenorphine
		Morphine-D6	*iianine		286.2 -> 165			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		12/19/2018 3:51 PM	286.2 -> 201	Morphine
92 358524	-D11 5.092	Methamphetamine-D11	www.		150.1 -> 119					12/19/2018 3:51 PM	150.1 -> 91.1	Methamphetamine
60 647265	6.360	Methadone-D9	Anson .		310.2 -> 105			Mereleten		12/19/2018 3:51 PM	310.2 -> 265	Methadone
01 93414	5.701	Meprobamate-D7	vacani.		219.1 -> 97.1					12/19/2018 3:51 PM	219.1 -> 158	Meprobamate
73 741062	5.573	Tramadol-13C-D3	-	-	399.2 -> 174.					12/19/2018 3:51 PM	399.2 -> 238	Mitragynine
73 741062	5.573	Tramadol-13C-D3	ww		266.2 -> 72.3					12/19/2018 3:51 PM	266.2 -> 195	Mirtazapine
87 286197	6.087	Ketamine-D4	Vicence	<u> </u>	238.1 -> 220.					12/19/2018 3:51 PM	238.1 -> 125	Ketamine
98 30453	6 4.798	Hydromorphone-D6	· · · · · · · · · · · · · · · · · · ·	·	286.2 -> 157					12/19/2018 3:51 PM	286.2 -> 184	Hydromorphone
64 116050	5.464	Hydrocodone-D6	'voidens		300.2 -> 128		-		-	12/19/2018 3:51 PM	300.2 -> 198	Hydrocodone
20 761633	6.320	Fluoxetine-D6	'sassing'	-	310.1 -> 148					12/19/2018 3:51 PM	310.1 -> 44.3	Fluoxetine
00 996861	6.500	Fentanyl-D5	'essisse	<u> </u>	337.2 -> 188					12/19/2018 3:51 PM	337.2 -> 105	Fentanyl
82 680369	6.082	EDDP-D3	-	<u> </u>	279.2 -> 250		<u> </u>			12/19/2018 3:51 PM	279.2 -> 235	EDDP
56 715773	5.756	Doxylamine-D5	'Jaking		271.2 -> 167		<u> </u>			12/19/2018 3:51 PM	271.2 -> 182	Doxylamine
27 963235	D3 6.127	Diphenhydramine-D3		Ė	256.2 -> 152					12/19/2018 3:51 PM	256.2 -> 167	Diphenhydramine
96 69618	4.996	Dihydrocodeine-D6	week	·	302.2 -> 128.					12/19/2018 3:51 PM	302.2 -> 198	Dihydrocodeine
70 123105	6.670	Diazepam-D5			285.1 -> 153					12/19/2018 3:51 PM	285.1 -> 193	Diazepam
75 141503	5.575	Dextrorphan-D3		Ŀ	258.2 -> 133					12/19/2018 3:51 PM	258.2 -> 157	Dextrorphan
85 155813	-D3 6.185	Dextromethorphan-D3		Ė	272.2 -> 147					12/19/2018 3:51 PM	272.2 -> 171	Dextromethorphan
70 362965)3 6.470	Cyclobenzaprine-D3		-	276.2 -> 231					12/19/2018 3:51 PM	276.2 -> 214	Cyclobenzaprine
61 24710	5.261	Codeine-D6	-	<u> </u>	300.2 -> 165.					12/19/2018 3:51 PM	300.2 -> 215	Codeine
40 16251	6.340	Clonazepam-D4		-	316.1 -> 213	73.500				12/19/2018 3:51 PM	316.1 -> 269	Clonazepam
54 566960	6.154	Citalopram-D6	and the same of th		325.2 -> 262					12/19/2018 3:51 PM	325.2 -> 109	Citalopram
	6.146	Carisoprodol-D7	,,,,,,,,,,,		261.2 -> 55.3					12/19/2018 3:51 PM	261.2 -> 176	Carisoprodol
87 386428	6.087	Bupropion-D9	-	•	240.1 -> 131					12/19/2018 3:51 PM	240.1 -> 184	Bupropion
13 364814	5.813	Cocaine-D3	******	-	304.2 -> 105	****				12/19/2018 3:51 PM	304.2 -> 182	Cocaine
31 159583	4,931	Amphetamine-D11			136.1 -> 119		ļ			12/19/2018 3:51 PM	136.1 -> 91.1	Amphetamine
64 131625	6.464	Alprazolam-D5	'anning		309.1 -> 205		-			12/19/2018 3:51 PM	309.1 -> 281	Alprazolam
22 434794	5.822	alpha-PVP-d8	Viosos		232.2 -> 77.1					12/19/2018 3:51 PM	232.2 -> 91.0	alpha-PVP
79 23562	.	a-hydroxyalprazolam-D5	- molecular	Ė	325.1 -> 215					12/19/2018 3:51 PM	325.1 -> 297	a-hydroxyalprazolam
	5.057	Noroxycodone-D3	******		268.2 -> 56.3			-		12/19/2018 3:51 PM	268.2 -> 116	Metoprolol
26 40937	D8 5.426	Benzoylecgonine-D8		<u> </u>	290.1 -> 105		ļ			12/19/2018 3:51 PM	290.1 -> 168	Benzoylecgonine
11 91412	m-D4 5.611	7-Aminoclonazepam-D4	'southern'	Ė	286.1 -> 222					12/19/2018 3:51 PM	286.1 -> 121	7-aminoclonazepam
19 28685	5.319	6-MAM-D6			328.2 -> 211.					12/19/2018 3:51 PM	328.2 -> 165	6-MAM
F Resp.	RT	Name	Area MI	S/N	Transition	z s	S/N	Resp.	RT	Acq. Date-Time	Transition	Name
			Security 1 1 mm	-							***************************************	



*********	: 1	T					
Compound Method	Name	Sertraline	Temazepam	Tramadol	Trazodone	Venlafaxine	Zolpidem
lhod	Transition	306.1 -> 158	301.1 -> 255	264.2 -> 58.3	372.2 -> 176	278.2 -> 58.3	308.2 -> 235
p1 negative	Acq. Date-Time	306.1 -> 158 12/19/2018 3:51 PM	301.1 -> 255 12/19/2018 3:51 PM	264.2 -> 58.3 12/19/2018 3:51 PM	372.2 -> 176 12/19/2018 3:51 PM	278.2 -> 58.3 12/19/2018 3:51 PM	308.2 -> 235 12/19/2018 3:51 PM
	RT						•••••
o1 negativ	RT Resp.						
p1 negative Results	S/N						
	≦		T	7	7	7	
Qualifier 1 M	MI Transition	306.1 -> 275	301.1 -> 283	264.2 -> 43.3	372.2 -> 148	278.2 -> 260	308.2 -> 263
Limm	S/N						
Qualifier 1 R	S/N Area MI					4	
ק	<u> </u>	7	7			7	_
ISTD Method	Name	Sertraline-D3	Temazepam-D5	Tramadol-13C-D3	Trazodone-D6	Venlafaxine-D6	Zolpidem-D6
ISTE	RT	6.627	6.506	5.573	6.863	5.898	6.402
ISTD Results	Resp.	203582	6.506 230671	5.573 741062	777811	644281	6.402 778746



6.659 250089	Quetiapine-D8				3840 _ 331	1000	*****	2.1. Frank		12/19/2018 4:11 PM	384 2 -> 253	Ouetiapine
6.590 14882	Promethazine-D3				285.1 -> 71.3					12/19/2018 4:11 PM	285.1 -> 86.2	Promethazine
5.274 398119	Phentermine-D5	300000			133					12/19/2018 4:11 PM	150.1 -> 65.2	Phentermine
4.552 122341	Oxymorphone-D3				302.1 -> 227					12/19/2018 4:11 PM	302.1 -> 284	Oxymorphone
	Oxycodone-D6				316.2 -> 241	T				12/19/2018 4:11 PM	316.2 -> 298	Oxycodone
	Oxazepam-D5				287.1 -> 268					12/19/2018 4:11 PM	287.1 -> 240	Oxazepam
σı	O-desmethyl-tramadol	***************************************			250.2 -> 42.3	T				12/19/2018 4:11 PM	250.2 -> 58.3	O-desmethyl-tramadol
	Noroxycodone-D3				302.1 -> 186					12/19/2018 4:11 PM	302.1 -> 284	Noroxycodone
5.163 37631	Norhydrocodone-D3				286.2 -> 171				•••••	12/19/2018 4:11 PM		Norhydrocodone
5.455 429127	Norfentanyl-D5				233.2 -> 55.3	***************************************				12/19/2018 4:11 PM	233.2 -> 84.2	Norfentanyl
6.532 42809	Nordiazepam-D5				271.1 -> 208	7				12/19/2018 4:11 PM	271.1 -> 140	Nordiazepam
6.029 18770	Norbuprenorphine-D3	T			414.3 -> 57.3	*****				12/19/2018 4:11 PM	414.3 -> 101	Norbuprenorphine
4.537	Morphine-D6				286.2 -> 165	_				12/19/2018 4:11 PM	286.2 -> 201	Morphine
5.112 408517	Methamphetamine-D11				150.1 -> 119					12/19/2018 4:11 PM	150.1 -> 91.1	Methamphetamine
6.360 616072	Methadone-D9				310.2 -> 105					12/19/2018 4:11 PM	310.2 -> 265	Methadone
5.701 84928	Meprobamate-D7				219.1 -> 97.1	*****				12/19/2018 4:11 PM	219.1 -> 158	Meprobamate
5.594 660696	Tramadol-13C-D3				399.2 -> 174					12/19/2018 4:11 PM	399.2 -> 238	Mitragynine
5.594 660696	Tramadol-13C-D3			-	266.2 -> 72.3	****				12/19/2018 4:11 PM	266.2 -> 195	Mirtazapine
6.087 253909	Ketamine-D4		-		238.1 -> 220					12/19/2018 4:11 PM	238.1 -> 125	Ketamine
4.798 31349	Hydromorphone-D6	_	68556	Infinity	286.2 -> 157		Infinity	0 102268	4.860	12/19/2018 4:11 PM	286.2 -> 184	Hydromorphone
5.464 104815	Hydrocodone-D6	interior	91721	Infinity	300.2 -> 128	Ī	Infinity	7 189136	5.527	12/19/2018 4:11 PM	300.2 -> 198	Hydrocodone
6.320 715837	Fluoxetine-D6				310.1 -> 148					12/19/2018 4:11 PM	310.1 -> 44.3	Fluoxetine
6.500 923491	Fentanyl-D5				337.2 -> 188			onina.		12/19/2018 4:11 PM	337.2 -> 105	Fentanyl
6.082 693940	EDDP-D3	***			279.2 -> 250					12/19/2018 4:11 PM	279.2 -> 235	EDDP
*********	Doxylamine-D5				-> 167					12/19/2018 4:11 PM	271.2 -> 182	Doxylamine
6.127 908194	Diphenhydramine-D3	300004	.,		256.2 -> 152	~				12/19/2018 4:11 PM	256.2 -> 167	Diphenhydramine
5.016 65276	Dihydrocodeine-D6				302.2 -> 128					12/19/2018 4:11 PM	302.2 -> 198	Dihydrocodeine
******	Diazepam-D5	*****			-> 153	==				12/19/2018 4:11 PM	285.1 -> 193	Diazepam
5.595 128925	Dextrorphan-D3				258.2 -> 133				•••••	12/19/2018 4:11 PM	258.2 -> 157	Dextrorphan
6.185 139803	Dextromethorphan-D3				-> 147	-				12/19/2018 4:11 PM	-> 171	Dextromethorphan
(L)	Cyclobenzaprine-D3				-> 231					12/19/2018 4:11 PM	276.2 -> 214	Cyclobenzaprine
	Codeine-D6					way.				12/19/2018 4:11 PM	215	Codeine
6.340 14903	Clonazepam-D4				316.1 -> 213	***************************************				12/19/2018 4:11 PM	316.1 -> 269	Clonazepam
6.154 524529	Citalopram-D6	~~1			325.2 -> 262	7				12/19/2018 4:11 PM		Citalopram
6.146 211256	Carisoprodol-D7				261.2 -> 55.3					12/19/2018 4:11 PM	261.2 -> 176	Carisoprodol
6.087 378495	Bupropion-D9			*******	240.1 -> 131	Second Second				12/19/2018 4:11 PM	240.1 -> 184	Bupropion
5.813 353422	Cocaine-D3			********	304.2 -> 105					12/19/2018 4:11 PM	304.2 -> 182	Cocaine
4.951 150029	Amphetamine-D11				136.1 -> 119					12/19/2018 4:11 PM	136.1 -> 91.1	Amphetamine
6.443 122023	Alprazolam-D5	100000			309.1 -> 205	********				12/19/2018 4:11 PM	309.1 -> 281	Alprazolam
5.822 401609	alpha-PVP-d8	*****			232.2 -> 77.1					12/19/2018 4:11 PM	232.2 -> 91.0	alpha-PVP
6.379 22455	a-hydroxyalprazolam-D5				325.1 -> 215					12/19/2018 4:11 PM	325.1 -> 297	a-hydroxyalprazolam
5.078 71323	Noroxycodone-D3				268.2 -> 56.3					12/19/2018 4:11 PM	268.2 -> 116	Metoprolol
5.426 39036	Benzoylecgonine-D8				290.1 -> 105				ļ	12/19/2018 4:11 PM	290.1 -> 168	Benzoylecgonine
5.631 88273	7-Aminoclonazepam-D4				286.1 -> 222					12/19/2018 4:11 PM	286.1 -> 121	7-aminoclonazepam
5.339 26086	6-MAM-D6				328.2 -> 211					12/19/2018 4:11 PM	328.2 -> 165	6-MAM
RT Resp.	Name	≦	Area	S/N	Transition	Z	S/N	Resp.	ᆱ	Acq. Date-Time	Transition	Name
and the second s		1					-			***************************************		



Compound Method	рог	p1 external control	p1 e	xternal cor	p1 external control Results	Qualifier 1 M	Qualifier	Qualifier 1 Results	ISTD Method	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	RT Resp.	M N/S	S/N MI Transition	S/N	Area MI	Name	끅	Resp.
Sertraline	306.1 -> 158	306.1 -> 158 12/19/2018 4:11 PM	6.628	6.628 428857	Infinity	Infinity 306.1 -> 275	72356	3776	72356 3776 Sertraline-D3	6.627	178499
Temazepam	301.1 -> 255	301.1 -> 255 12/19/2018 4:11 PM				301.1 -> 283			Temazepam-D5	6.506	6.506 218613
Tramadol	264.2 -> 58.3	264.2 -> 58.3 12/19/2018 4:11 PM				264.2 -> 43.3			Tramadol-13C-D3	5.594	660696
Trazodone	372.2 -> 176	372.2 -> 176 12/19/2018 4:11 PM			******	*** 372.2 -> 148			Trazodone-D6	6.863	728933
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3 12/19/2018 4:11 PM				278.2 -> 260		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Venlafaxine-D6	5.898	627574
Zolpidem	308.2 -> 235	308.2 -> 235 12/19/2018 4:11 PM				308.2 -> 263			Zolpidem-D6	6.382	714499



Compound Method	od	p2 cal 1-1b		p2 cal 1-1b Results	Results	Qualifier 1 M	Qualifie	Qualifier 1 Results	ISTD Method	ISTD Results	\esult
Name	Transition	Acq. Date-Time	꾸	Resp.	S/N MI	Transition	N/S	Area MI	Name	RT	Resp.
Acetylfentanyl	323.2 -> 188	12/19/2018 3:42 PM	6.347	12642	2717.88	323.2 -> 105	Infinity	19311	Acetylfentanyl-D5	6.326	10374
alpha-hydroxymidazolam	342.1 -> 324	12/19/2018 3:42 PM	6.467	26472	11128.68		60.93	16310	alpha-hydroxymidazolam	6.446	202179
Amitriptyline	278.2 -> 91.2	12/19/2018 3:42 PM	6.577	124058	Infinity		570.39	56954	Amitriptyline-D3	6.576	331017
Acetylnorfentanyl	219.1 -> 84.2	12/19/2018 3:42 PM	5.019	7855	92.39	219.1 -> 56.3	22.14	1977	Acetylnorfentanyl-D5	4.997	346464
Carbamazepine	237.1 -> 193	12/19/2018 3:42 PM	6.177	18040	7062.18	237.1 -> 194	213.08	1635	Carbamazepine-13C6	6.176	844995
Chlordiazepoxide	300.1 -> 227	12/19/2018 3:42 PM	6.593	20241	5876.59		26.13	12319	Chlordiazepoxide-D5	6.593	195005
Sufentanil	387.2 -> 238	12/19/2018 3:42 PM	6.908	18058	94.44		6256	15773	Sufentanil-D5	6.887	958987
Desipramine	267.2 -> 72.3	12/19/2018 3:42 PM	6.438	170020	Infinity	267.2 -> 44.3	80.12	86191	Desipramine-D3	6.418	862323
Doxepin	280.2 -> 107	12/19/2018 3:42 PM	6.354	76601	Infinity	280.2 -> 77.2	17.67	30674	Doxepin-D3	6.332	452793
Estazolam	295.1 -> 267	12/19/2018 3:42 PM	6.392	32334	328.88	295.1 -> 205	8449	30020	Estazolam-D5	6.391	171348
Flunitrazepam	314.1 -> 268	12/19/2018 3:42 PM	6.450	28450	9945.73	314.1 -> 239	142.67	10220	Flunitrazepam-D7	6.429	5617
Flurazepam	388.2 -> 315	12/19/2018 3:42 PM	6.525	125406	94.48	388.2 -> 317	340.41	28192	Zopiclone-D4	6.423	134296
Imipramine	281.2 -> 86.2	12/19/2018 3:42 PM	6.536	247296	4251.37	281.2 -> 58.3	Infinity	1370	Imipramine-D3	6.515	676291
Levamisole	205.1 -> 91.2	12/19/2018 3:42 PM	5.427	48907	Infinity	205.1 -> 178	152.57	44864	Sufentanil-D5	6.887	958987
Maprotiline	278.2 -> 91.2	12/19/2018 3:42 PM	6.436	33168	51.63	278.2 -> 117	44.69	24635	Amitriptyline-D3	6.576	331017
MDA	180.1 -> 163	12/19/2018 3:42 PM	5.166	55675	42.72	180.1 -> 105	13.48	37727	MDA-D5	5.166	295481
MDEA	208.1 -> 163	12/19/2018 3:42 PM	5.427	87486	Infinity	208.1 -> 105	39.29	73980	MDEA-D6	5.426	431857
MDMA	194.1 -> 163	12/19/2018 3:42 PM	5.286	107208	Infinity	194.1 -> 105	Infinity	65287	MDMA-D6	5.265	61232
Meperidine	248.2 -> 220	12/19/2018 3:42 PM	5.871	46793	79.61	248.2 -> 174	45.50	30614	Meperidine-D4	5.850	222741
Methylphenidate	234.2 -> 84.2	12/19/2018 3:42 PM	5.709	232380	169.24	234.2 -> 56.3	Infinity	48429	Meperidine-D4	5.850	222741
Midazolam	326.1 -> 223	12/19/2018 3:42 PM	6.610	16529	90.26	326.1 -> 249	97.86	15038	Midazolam-D4	6.609	242515
Normeperidine	234.1 -> 42.3	12/19/2018 3:42 PM	5.731	50626	443.12	234.1 -> 160	435.85	36298	Normeperidine-D4	5.729	168759
7-Aminoflunitrazepam	284.1 -> 135	12/19/2018 3:42 PM	5.803	26824	1570.62	284.1 -> 93.2	112.40	9761	7-aminoflunitrazepam-D7	5.783	128098
Nortriptyline	264.2 -> 91.2	12/19/2018 3:42 PM	6.460	53409	Infinity	264.2 -> 233	258.93	38395	Nortriptyline-D3	6.459	207086
Phenazepam	349.0 -> 206	12/19/2018 3:42 PM	6.506	19914	104.47	349.0 -> 183	74.20	14326	Phenazepam-D4	6.486	74172
Phencyclidine	244.2 -> 86.2	12/19/2018 3:42 PM	6.014	147343	344.15	244.2 -> 91.1	Infinity	1224	Phencydlidine-D5	5.992	725292
Phenytoin	253.1 -> 182	12/19/2018 3:42 PM	6.093	1079	27.12	253.1 -> 104	228.41	1040	Phenytoin-D10	6.072	8015
Pseudoephedrine	166.1 -> 148	12/19/2018 3:42 PM	4.743	10919	Infinity	166.1 -> 133	Infinity	2127	Pseudoephedrine-D3	4.743	53287
Tapentadol	222.2 -> 107	12/19/2018 3:42 PM	5.589	132067	162.40	222.2 -> 121	Infinity	48667	Tapentadol-D3	5.588	645912
Zaleplon	306.1 -> 236	12/19/2018 3:42 PM	6.268	33598	89.50	306.1 -> 264	100.36	22988	Zaleplon-D4	6.247	124711
Zopiclone	389.1 -> 244	12/19/2018 3:42 PM	6.423	30079	85.52	389.1 -> 216	79.73	15764	Zopiclone-D4	6.423	134296



	Zonicione-DA 6 403		389.1 -> 216				12/19/2018 4:01 PM	389.1 -> 244	Zopiclone
6.247 138510	Zaleplon-D4 6.		306.1 -> 264				12/19/2018 4:01 PM	306.1 -> 236	Zalepion
5.588 604692			222.2 -> 121	,accession,			12/19/2018 4:01 PM	222.2 -> 107	Tapentadol
4.743 53610	ne-D3		166.1 -> 133	**************************************			12/19/2018 4:01 PM	166.1 -> 148	Pseudoephedrine
6.072 8045	Phenytoin-D10 6.		253.1 -> 104				12/19/2018 4:01 PM	253.1 -> 182	Phenytoin
5.992 637210	Phencydlidine-D5 5.		244.2 -> 91.1				12/19/2018 4:01 PM	244.2 -> 86.2	Phencyclidine
6.486 78743	Phenazepam-D4 6.		349.0 -> 183				12/19/2018 4:01 PM	349.0 -> 206	Phenazepam
6.438 209403	Nortriptyline-D3 6.		264.2 -> 233				12/19/2018 4:01 PM	264.2 -> 91.2	Nortriptyline
5.783 126533	7-aminoflunitrazepam-D7 5.		284.1 -> 93.2	kon (12/19/2018 4:01 PM	284.1 -> 135	7-Aminoflunitrazepam
5.729 161790	Normeperidine-D4 5.	***************************************	234.1 -> 160				12/19/2018 4:01 PM	234.1 -> 42.3	Normeperidine
6.589 244724	Midazolam-D4 6.		326.1 -> 249				12/19/2018 4:01 PM	326.1 -> 223	Midazolam
5.850 211046	Meperidine-D4 5.		234.2 -> 56.3				12/19/2018 4:01 PM	234.2 -> 84.2	Methylphenidate
5.850 211046	Meperidine-D4 5.		248.2 -> 174		adatos		12/19/2018 4:01 PM	248.2 -> 220	Meperidine
5.265 60952	MDMA-D6 5.	'makagi	194.1 -> 105				12/19/2018 4:01 PM	194.1 -> 163	MDMA
5.406 390585	MDEA-D6 5.	•••••	208.1 -> 105		anness.		12/19/2018 4:01 PM	208.1 -> 163	MDEA
5.166 286912	MDA-D5 5.		180.1 -> 105				12/19/2018 4:01 PM	180.1 -> 163	MDA
6.556 301831	Amitriptyline-D3 6.		278.2 -> 117				12/19/2018 4:01 PM	278.2 -> 91.2	Maprotiline
6.887 928183			205.1 -> 178	-1			12/19/2018 4:01 PM	205.1 -> 91.2	Levamisole
6.494 661039	ω	anen (281.2 -> 58.3				12/19/2018 4:01 PM	281.2 -> 86.2	Imipramine
6.403 134248			388.2 -> 317				12/19/2018 4:01 PM	388.2 -> 315	Flurazepam
6.429 5350	Flunitrazepam-D7 6.		314.1 -> 239		,,,,,,,,,,,,,		12/19/2018 4:01 PM	314.1 -> 268	Flunitrazepam
6.391 172738	Estazolam-D5 6.		295.1 -> 205				12/19/2018 4:01 PM	295.1 -> 267	Estazolam
6.312 452229	Doxepin-D3 6.		280.2 -> 77.2				12/19/2018 4:01 PM	280.2 -> 107	Doxepin
6.418 867241	D3	***************************************	267.2 -> 44.3				12/19/2018 4:01 PM	267.2 -> 72.3	Desipramine
6.887 928183	*******	*****	387.2 -> 111	-1			12/19/2018 4:01 PM	387.2 -> 238	Sufentanil
6.573 197564			300.1 -> 282				12/19/2018 4:01 PM	300.1 -> 227	Chlordiazepoxide
6.156 860025	O)		237.1 -> 194		,		12/19/2018 4:01 PM	237.1 -> 193	Carbamazepine
4.997 356113	Acetylnorfentanyl-D5 4.	***************************************	219.1 -> 56.3			**********	12/19/2018 4:01 PM	219.1 -> 84.2	Acetylnorfentanyl
6.556 301831	Amitriptyline-D3 6.		278.2 -> 105	200000000000000000000000000000000000000			12/19/2018 4:01 PM	278.2 -> 91.2	Amitriptyline
6.446 205320	lazolam		342.1 -> 203	·			12/19/2018 4:01 PM	342.1 -> 324	alpha-hydroxymidazolam
6.306 975811	Acetylfentanyl-D5 6.		323.2 -> 105				12/19/2018 4:01 PM	323.2 -> 188	Acetylfentanyl
RT Resp.	Name F	S/N Area MI	Transition	S/N MI	Resp.	RT	Acq. Date-Time	Transition	Name
ISTD Results	ISTD Method I	Qualifier 1 R	Qualifier 1 M	esults	p2 negative Results		p2 negative		Compound Method



3 91616	6 403	Zoniclone-D4	٦		******	389.1 -> 216			*************		12/19/2018 4:21 PM	389.1 -> 244	Zopiclone
17 126921	6.247	Zaleplon-D4				306.1 -> 264		***************************************			12/19/2018 4:21 PM	306.1 -> 236	Zalepion
38 548036	5.588	Tapentadol-D3				222.2 -> 121					12/19/2018 4:21 PM	222.2 -> 107	Tapentadol
13 48162	4.743	Pseudoephedrine-D3				166.1 -> 133		-			12/19/2018 4:21 PM	166.1 -> 148	Pseudoephedrine
72 6171	6.072	Phenytoin-D10				253.1 -> 104	T				12/19/2018 4:21 PM	253.1 -> 182	Phenytoin
)2 642075	5.992	Phencydlidine-D5				244.2 -> 91.1	ī				12/19/2018 4:21 PM	244.2 -> 86.2	Phencyclidine
36 70741	6.486	Phenazepam-D4				349.0 -> 183					12/19/2018 4:21 PM	349.0 -> 206	Phenazepam
9 197562	6.459	Nortriptyline-D3		4250	241.64	264.2 -> 233		333.27	526622	6.460	12/19/2018 4:21 PM	264.2 -> 91.2	Nortriptyline
3 114789	5.783	7-aminoflunitrazepam-D7				284.1 -> 93.2					12/19/2018 4:21 PM	284.1 -> 135	7-Aminoflunitrazepam
9 149331	5.729	Normeperidine-D4	Nicon (234.1 -> 160					12/19/2018 4:21 PM	234.1 -> 42.3	Normeperidine
39 216038	6.589	Midazolam-D4				326.1 -> 249		THE			12/19/2018 4:21 PM	326.1 -> 223	Midazolam
194370	5.850	Meperidine-D4				234.2 -> 56.3					12/19/2018 4:21 PM	234.2 -> 84.2	Methylphenidate
194370	5.850	Meperidine-D4				248.2 -> 174					12/19/2018 4:21 PM	248.2 -> 220	Meperidine
55290	5.265	MDMA-D6				194.1 -> 105					12/19/2018 4:21 PM	194.1 -> 163	MDMA
358990	5.426	MDEA-D6				208.1 -> 105					12/19/2018 4:21 PM	208.1 -> 163	MDEA
15 263723	5.145	MDA-D5				180.1 -> 105					12/19/2018 4:21 PM	180.1 -> 163	MDA
304545	6.556	Amitriptyline-D3	*****			278.2 -> 117					12/19/2018 4:21 PM	278.2 -> 91.2	Maprotiline
37 856208	6.887	Sufentanil-D5	-		,,,,,,,,,,	205.1 -> 178			*********		12/19/2018 4:21 PM	205.1 -> 91.2	Levamisole
5 622907	6.515	Imipramine-D3				281.2 -> 58.3					12/19/2018 4:21 PM	281.2 -> 86.2	Imipramine
)3 91616	6.403	Zopiclone-D4				388.2 -> 317					12/19/2018 4:21 PM	388.2 -> 315	Flurazepam
9 5177	6.429	Flunitrazepam-D7			**********	314.1 -> 239					12/19/2018 4:21 PM	314.1 -> 268	Flunitrazepam
155582	6.391	Estazolam-D5				295.1 -> 205					12/19/2018 4:21 PM	295.1 -> 267	Estazolam
2 419420	6.312	Doxepin-D3	~~~ <u>`</u>			280.2 -> 77.2					12/19/2018 4:21 PM	280.2 -> 107	Doxepin
8 817017	6.418	Desipramine-D3				267.2 -> 44.3		Commercial	-		12/19/2018 4:21 PM	267.2 -> 72.3	Desipramine
7 856208	6.887	Sufentanil-D5				387.2 -> 111		-			12/19/2018 4:21 PM	387.2 -> 238	Sufentanil
3 185415	6.573	Chlordiazepoxide-D5				300.1 -> 282					12/19/2018 4:21 PM	300.1 -> 227	Chlordiazepoxide
6 782817	6.156	Carbamazepine-13C6				237.1 -> 194					12/19/2018 4:21 PM	237.1 -> 193	Carbamazepine
)7 329616	4.997	Acetylnorfentanyl-D5				219.1 -> 56.3		-			12/19/2018 4:21 PM	219.1 -> 84.2	Acetylnorfentanyl
6 304545	6.556	Amitriptyline-D3				278.2 -> 105	~~				12/19/2018 4:21 PM	278.2 -> 91.2	Amitriptyline
6 184322	6.446	alpha-hydroxymidazolam				342.1 -> 203					12/19/2018 4:21 PM	342.1 -> 324	alpha-hydroxymidazolam
6 923709	6.326	Acetylfentanyl-D5				323.2 -> 105					12/19/2018 4:21 PM	323.2 -> 188	Acetylfentanyl
Resp.	RT	Name	3	Area	S/N	Transition	K	S/N	Resp.	RT	Acq. Date-Time	Transition	Name
ISTD Results	ISTI	ISTD Method	lts	1 Resu	Qualifier 1 Results	Qualifier 1 M.,	ਲ	trol Resul	p2 external control Results	p2 ext	p2 external control	Q.	Compound Method



AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 12/19/18 Analyst: Anne Nord

Plate lot#: 0539904 Plate Expiration: 09/10/2019

Mobile phase A: 10mM Ammonium Formate Mobile phase B: 0.1% Formic acid in MeOH

0.1% Formic Acid in Water MTBE Hexane

Blank Blood Lot: 18G207D7 Column: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)

LCMS-QQQ ID: 62340

Pre-Analytic:

- □ I. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- ☑ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

Analytic:

- ☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- - 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 500 μL 0.1% formic acid in wells of analytical plate.
- ∑ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ⊠ 6. Transfer 800 μL of blood+base mixture to corresponding wells of SLE+ plate.
- \boxtimes 8. Wait 5 minutes.
- ⊠ 9. Add 2.25 mL MTBE (add in 3 increments of 750uL).
- \boxtimes 10. Wait 5 minutes.
- □ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ⊠ 12. Add 2.25 mL hexane (add in 3 increments of 750uL).
- \boxtimes 13. Wait 5 minutes.
- △ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- 🖾 16. Reconstitute in 100μL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- \boxtimes 1. Create batch and process data.
 - Worklist path: 121918 AM 25-26 Click here to enter text. Batch Name: cann screen
- ☑ 3. Retention time within +/- 2% or +/-.100 min whichever is greater of the average retention time of the calibrators.
- ☑ 4. Did all QCs pass for each analyte? Y / N

COMMENTS: THC-OH dropped calibrator 3 top cut off internal standard peak. THC-COOH curve range 5-100.



ISP FORENSICS - Cd'A Cannabionoid Screen Report

Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 12/27/2018 9:15 AM
 Analyst Name
 ISP Tox

 Report Time
 12/27/2018 9:19 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 12/27/2018 9:15 AM
 Batch State
 Processed

Analysis Info

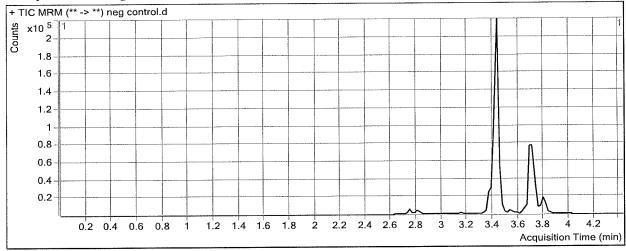
Acq Time2018-12-20 01:30Data Fileneg control.dSample TypeSampleSample Nameneg control

Dilution 1 **Acq Method** Screen THC 8-2017.m

Position P1-A2 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Printed at: 9:21 AM on: 12/27/2018

ISP FORENSICS - Cd'A Cannabionoid Screen Report

Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 12/27/2018 9:15 AM
 Analyst Name
 ISP Tox

 Report Time
 12/27/2018 9:19 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 12/27/2018 9:15 AM
 Batch State
 Processed

Analysis Info

 Acq Time
 2018-12-20 01:17
 Data File
 QC 5 -10ng.d

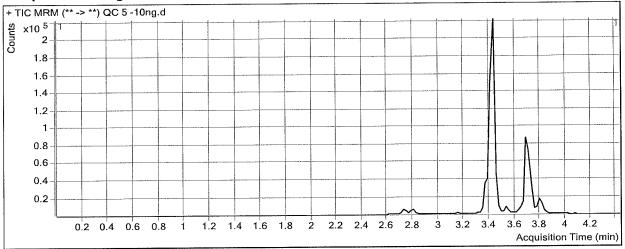
 Sample Type
 QC
 Sample Name
 QC 5 -10ng

 Dilution
 1
 Acq Method
 Screen THC 8-2017.m

Position P1-H1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen 5 ng THC, THC-OH, 10 ng C-TH

Sample Chromatogram



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	15328	94227	0.1627	9.4266
THC-OH	3.433	16855	474802	0.0355	4.9141
THC	3.800	1165	24856	0.0469	4.8385

Printed at: 9:21 AM on: 12/27/2018

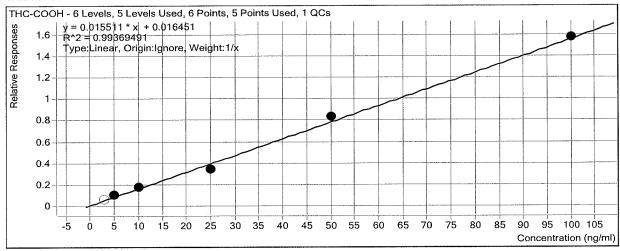


ISP Forensics Calibration Curve Report

D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin **Batch Data Path Last Calib Update** 12/27/2018 9:15 AM

ISP TOX Analyst Name

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1		3	0.0	0.0
cal 2 - 5ng	2	\square	5	0.0	0.0
cal 3 - 10ng	3	☑	10	0.0	0.0
cal 4 - 25ng	4	\square	25	0.0	0.0
cal 5 - 50ng	5	\square	50	0.0	0.0
cal 6 - 100ng	6		100	0.0	0.0
OC 5 -10na	7	Ø	10	9.4	94.3



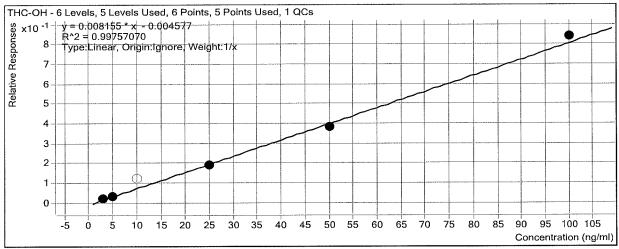
ISP Forensics Calibration Curve Report

Batch Data Path
Last Calib Update

D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

12/27/2018 9:15 AM
Analyst Name
ISP TOX

Target CompoundTHC-OHInternal StandardTHC-OH-d3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	\square	3	0.0	0.0
cal 2 - 5ng	2	☑	5	0.0	0.0
cal 3 - 10ng	3		10	0.0	0.0
cal 4 - 25ng	4	\square	25	0.0	0.0
cal 5 - 50ng	5	\square	50	0.0	0.0
cal 6 - 100ng	6	\square	100	0.0	0.0
QC 5 -10ng	7	\square	5	4.9	98.3



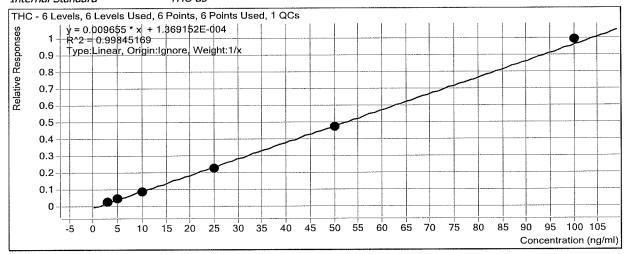
ISP Forensics Calibration Curve Report

Batch Data Path Last Calib Update D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin 12/27/2018 9:15 AM

Analyst Name

Target Compound Internal Standard

THC THC-d3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	☑	3	0.0	0.0
cal 2 - 5ng	2	\square	5	0.0	0.0
cal 3 - 10ng	3	\square	10	0.0	0.0
cal 4 - 25ng	4	\square	25	0.0	0.0
cal 5 - 50ng	5	☑	50	0.0	0.0
cal 6 - 100ng	6	\square	100	0.0	0.0
QC 5 -10ng	7	☑	5	4.8	96.8



Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/2/2019 9:09 AM
 Analyst Name
 ISP Tox

 Report Time
 1/2/2019 9:10 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/2/2019 9:09 AM
 Batch State
 Processed

Analysis Info

 Acq Time
 2018-12-20 00:31
 Data File
 cal 1 - 3ng.d

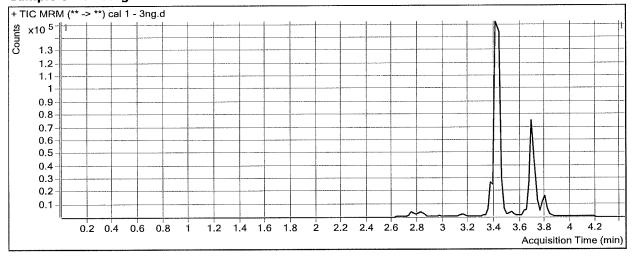
 Sample Type
 Calibration
 Sample Name
 cal 1 - 3ng

Dilution 1 **Acq Method** Screen THC 8-2017.m

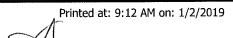
Position p1-b1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	4814	72302	0.0666	3.2317
THC-OH	3.433	8696	381824	0.0228	3.3539
THC	3.800	731	23620	0.0309	3.1897



Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

Analysis Time1/2/2019 9:09 AMAnalyst NameISP ToxReport Time1/2/2019 9:10 AMReporter NameISP ToxLast Calib Update1/2/2019 9:09 AMBatch StateProcessed

Analysis Info

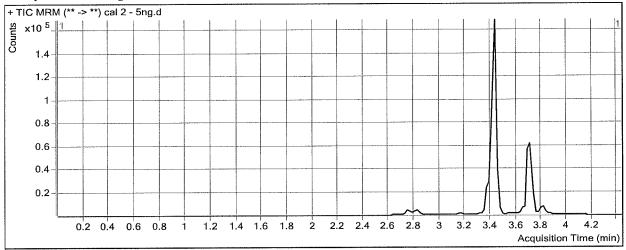
Acq Time2018-12-20 00:37Data Filecal 2 - 5ng.dSample TypeCalibrationSample Namecal 2 - 5ng

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-COOH	3.386	7152	71197	0.1005	5.4156
THC-OH	3.433	11067	328133	0.0337	4.6970
THC	3.820	430	8464	0.0508	5.2420

Printed at: 9:12 AM on: 1/2/2019

Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

Analysis Time1/2/2019 9:09 AMAnalyst NameISP ToxReport Time1/2/2019 9:10 AMReporter NameISP ToxLast Calib Update1/2/2019 9:09 AMBatch StateProcessed

Analysis Info

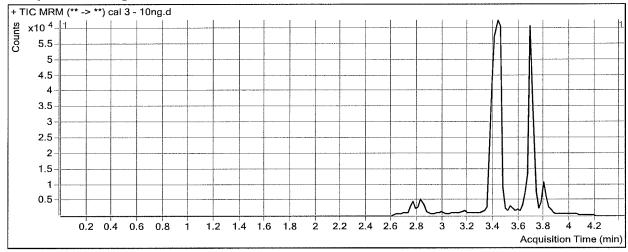
Acq Time2018-12-20 00:44Data Filecal 3 - 10ng.dSample TypeCalibrationSample Namecal 3 - 10ng

Dilution 1 **Acq Method** Screen THC 8-2017.m

Position p1-d1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Resu	lts
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Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	14083	81701	0.1724	10.0522
THC-OH	3.433	21524	175382	0.1227	15.6101
THC	3.800	996	10972	0.0907	9.3842

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Printed at: 9:12 AM on: 1/2/2019

Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

Analyst Name ISP Tox **Analysis Time** 1/2/2019 9:09 AM Report Time 1/2/2019 9:10 AM Reporter Name ISP Tox Last Calib Update 1/2/2019 9:09 AM **Batch State** Processed

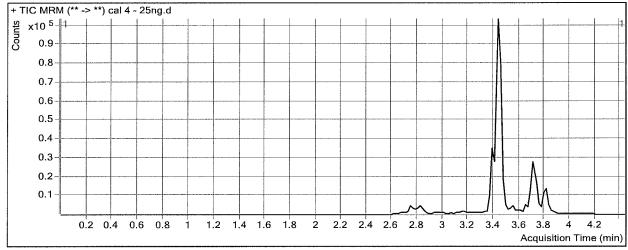
Analysis Info

Data File cal 4 - 25ng.d **Acq Time** 2018-12-20 00:51 Sample Type Calibration Sample Name cal 4 - 25ng Dilution Acq Method Screen THC 8-2017.m 1

Position P1-E1 Sample Info

Comment AM 26 Cannabinoid screen Inj Vol -1

Sample Chromatogram



Results

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.406	20471	59200	0.3458	21.2318
THC-OH	3.433	37824	198617	0.1904	23.9129
THC	3.820	3787	16652	0.2274	23.5363

Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

Analysis Time1/2/2019 9:09 AMAnalyst NameISP ToxReport Time1/2/2019 9:10 AMReporter NameISP ToxLast Calib Update1/2/2019 9:09 AMBatch StateProcessed

Analysis Info

 Acq Time
 2018-12-20 00:57
 Data File
 cal 5 - 50ng.d

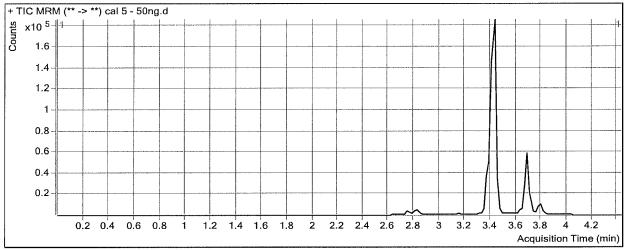
 Sample Type
 Calibration
 Sample Name
 cal 5 - 50ng

 Dilution
 1
 Acq Method
 Screen THC 8-2017.m

Position p1-f1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Resu	lts
------	-----

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	51090	60995	0.8376	52.9389
THC-OH	3.433	111253	290172	0.3834	47.5754
THC	3.800	4666	9819	0.4752	49.2016

A

Batch Data Path D:\2018 Data\121918 AM 25-26\QuantResults\cann screen.batch.bin

Analysis Time1/2/2019 9:09 AMAnalyst NameISP ToxReport Time1/2/2019 9:10 AMReporter NameISP ToxLast Calib Update1/2/2019 9:09 AMBatch StateProcessed

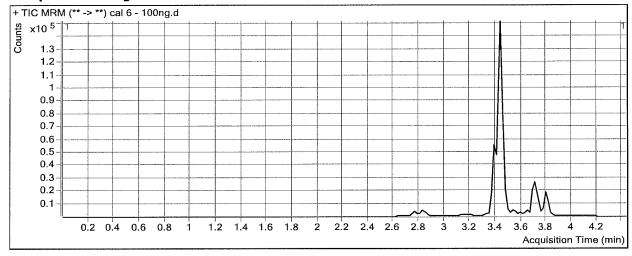
Analysis Info

Acq Time2018-12-20 01:04Data Filecal 6 - 100ng.dSample TypeCalibrationSample Namecal 6 - 100ngDilution1Acq MethodScreen 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-COOH	3.386	65317	41518	1.5732	100.3615	
THC-OH	3.433	131776	157034	0.8392	103.4609	
THC	3.800	13065	13206	0.9893	102,4462	



Printed at: 9:12 AM on: 1/2/2019