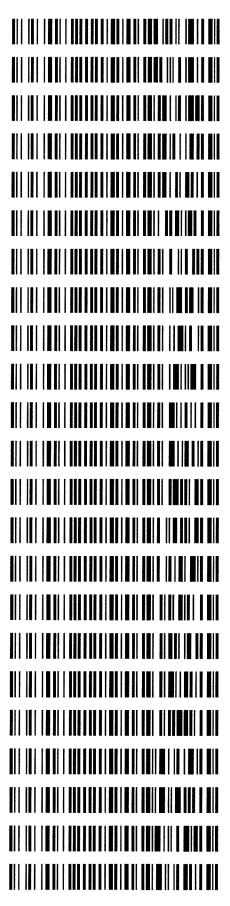
## REVIEWED By tsalazar at 3:40 pm, Jan 17, 2019

## REVIEWED By tsalazar at 10:14 am, Jan 24, 2019

Worklist: 2883

<u>LAB CASE</u> C2018-2554	<u>ITEM</u> 1	<u>TASK ID</u> 135033	DESCRIPTION  AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2560	1	135139	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2569	1	135197	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2570	1	135199	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2570	2	135201	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2577	1	135370	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2604	1	135779	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2605	1	135781	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2606	1	135783	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2607	1	135785	AM 25/AM 26 Blood MultiDrug/THC Screen by L
C2018-2608	1	135787	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2609	1	135789	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2610	1	135791	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2611	1	135794	AM 25/AM 26 Blood MultiDrug/THC Screen by Lt
C2018-2612	2	135797	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0004	1	135863	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0007	1	135871	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0015	1	135889	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0016	1	135892	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0044	1	136356	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0054	1	136401	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0064	2	136539	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0080	1	136642	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo





#### Worklist: 2883

LAB CASE	<u>ITEM</u>	TASK ID	DESCRIPTION
C2019-0087	1	136926	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0097	1	136975	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2019-0101	1	137026	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo





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

Extraction Date: 1/14/19

Analyst: Anne Nord

Plate lot#: 0543908

Plate Expiration: November 28 2019

Mobile phase A: 10mM Amm Form

**Mobile phase B:** 0.1% Formic Acid in MeOH

0.5M Ammonium Hydroxide

Ethyl Acetate LC Methanol

Blank Blood Lot: 18G207D7

LCMS-QQQ ID: 62340

Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

## **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.
- □ 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.

- ✓ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
   (Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
- ⊠ 8. Wait 5 minutes.
- ∅ 9. Add 900uL ethyl acetate.
- □ 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).
- 🖾 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: mdsp1, mdsp2

- □ 4. Did all QCs pass for each analyte? Y / N yes

#### **COMMENTS:**

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

by Amn

Drug Hydromorphone	lot FE04101502	expiration 6/1/2020
Hydromorphone	FE04101502	6
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 neg blood lot 17J20718

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

by Amn

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



Compound Method	thod	p1 cal 1-2a		p1c	cal 1-2a Results	Ø.	Qualifier 1 M	Qualif	Qualifier 1 Results	sults	ISTD Method	ISTD Results	0
Name	Transition	Acq. Date-Time	꾼	Resp.	Calc. Conc.	S/N M	Transition	<u>≤</u>	S/N	Area	Name	RT	
6-MAM	328.2 -> 165	1/14/2019 4:05 PM	5.360	1612	10.0000	5.24	328.2 -> 211		20.85	1224	6-MAM-D6	5319	3942
7-aminoclonazepam	286.1 -> 121	1/14/2019 4:05 PM	5.591	18225	10.0000	74.05	286.1 -> 222			100	7-Aminoclonazepam-D4	5.590	
Benzoylecgonine	290.1 -> 168	1/14/2019 4:05 PM	5.406	13155	10.0000	80.54		33			Benzoylecgonine-D8	5.405	
Metoprolol	268.2 -> 116	1/14/2019 4:05 PM	5.573	23842	10.0000	72.99	268.2 -> 56.3			-	Noroxycodone-D3	5.078	
a-hydroxyalprazolam	325.1 -> 297	1/14/2019 4:05 PM	6.339	5880	10.0000	101.88	325.1 -> 215	5			a-hydroxyalprazolam-D5	6.317	
alpha-PVP	232.2 -> 91.0	1/14/2019 4:05 PM	5.885	114916	10.0000	111.07	232.2 -> 77.1	1			alpha-PVP-d8	5.802	467647
Alprazolam	309.1 -> 281	1/14/2019 4:05 PM	6.403	40051	10.0000	333.69	V	7:			Alprazolam-D5	6.402	160530
Amphetamine	136.1 -> 91.1	1/14/2019 4:05 PM	4.992	135349	10.0000	85.21	136.1 -> 119		16.28		Amphetamine-D11	4.951	124481
Cocaine	304.2 -> 182	1/14/2019 4:05 PM	5.813	130730	10.0000	152.38		9			Cocaine-D3	5.792	512121
Bupropion	240.1 -> 184	1/14/2019 4:05 PM	6.108	101219	10.0000	444.03	240.1 -> 131				Bupropion-D9	6.067	396243
Carisoprodol	261.2 -> 176	1/14/2019 4:05 PM	6.086	46686	10.0000	73.72	261.2 -> 55.3				Carisoprodol-D7	6.084	331488
Citalopram	325.2 -> 109	1/14/2019 4:05 PM	6.135	147858	10.0000	190.76	325.2 -> 262	57			Citalopram-D6	6.114	692058
Clonazepam	316.1 -> 269	1/14/2019 4:05 PM	6.279	14327	10.0000	64.06	316.1 -> 213				Clonazepam-D4	6 279	23305
Codeine	300.2 -> 215	1/14/2019 4:05 PM	5.324	6809	10.0000	3199.39	300.2 -> 165		19.60		Codeine-D6	5.281	3433
Cyclobenzaprine	276.2 -> 214	1/14/2019 4:05 PM	6.471	95911	10.0000	842.51	V			- 1	Cyclobenzaprine-D3	6.449	433793
Dextromethorphan	272.2 -> 171	1/14/2019 4:05 PM	6.165	40306	10.0000	951.57	V	18			Dextromethorphan-D3	6.145	198194
Dextrorphan	258.2 -> 157	1/14/2019 4:05 PM	5.575	35523	10.0000	99.77	V	23		- 1	Dextrorphan-D3	5.554	176302
Diazepam	285.1 -> 193	1/14/2019 4:05 PM	6.651	34169	10.0000	70.23	v	22			Diazepam-D5	6.630	152249
Dihydrocodeine	302.2 -> 198	1/14/2019 4:05 PM	5.079	21215	10.0000	109.00	v				Dihydrocodeine-D6	5.036	9453
Diphenhydramine	256.2 -> 167	1/14/2019 4:05 PM	6.108	245619	10.0000	344.94	256.2 -> 152	1		ž.	Diphenhydramine-D3	6.107	11034
Doxylamine	271.2 -> 182	1/14/2019 4:05 PM	5.757	189800	10.0000	208.81	271.2 -> 167	1			Doxylamine-D5	5.736	940016
EDDP	279.2 -> 235	1/14/2019 4:05 PM	6.041	147698	10.0000	1167.39	279.2 -> 250	5.	514.67	45665	EDDP-D3	6.041	797231
Fentanyl	337.2 -> 105	1/14/2019 4:05 PM	6.520	25477	10.0000	38.95	337.2 -> 188	1:	134.12		Fentanyl-D5	6.500	12992
Fluoxetine	310.1 -> 44.3	1/14/2019 4:05 PM	6.280	193059	10.0000	29375.12	310.1 -> 148	7	43.13	7141	Fluoxetine-D6	6.279	10512
Hydrocodone	300.2 -> 198	1/14/2019 4:05 PM	5.527	23935	10.0000	25.13	300.2 -> 128	Toolsean Park	8	11984	11984   Hydrocodone-D6	5.485	15589
Hydromorphone	286.2 -> 184	1/14/2019 4:05 PM	4.881	15899	10.0000	10.70	286.2 -> 157		88	10814	Hydromorphone-D6	4.818	ŀ
Ketamine	238.1 -> 125	1/14/2019 4:05 PM	6.088	77963	10.0000	122.86	238.1 -> 220		21.45	32147	Ketamine-D4	6.067	323772
Mirtazapine	266.2 -> 195	1/14/2019 4:05 PM	6.453	177960	10.0000	218.86		16			Tramadol-13C-D3	5.573	838001
Mitragynine	399.2 -> 238	1/14/2019 4:05 PM	6.517	28495	10.0000	6057.19	399.2 -> 174	T 46	464.50		Tramadol-13C-D3	5.573	838001
Meprobamate	219.1 -> 158	1/14/2019 4:05 PM	5.661	19764	10.0000	40.51	219.1 -> 97.1			- 1	Meprobamate-D7	5.660	112099
Methadone	310.2 -> 265	1/14/2019 4:05 PM	6.320	137636	10.0000	158.72	310.2 -> 105	2.	219.93	1458	Methadone-D9	6.319	844972
Methamphetamine	150.1 -> 91.1	1/14/2019 4:05 PM	5.153	86962	10.0000	18.78	150.1 -> 119		8		Methamphetamine-D11	5.112	265626
Morphine	286.2 -> 201	1/14/2019 4:05 PM	4.618	4332	10.0000	8	286.2 -> 165		4.86		Morphine-D6	4.557	
Norbuprenorphine	414.3 -> 101	1/14/2019 4:05 PM	5.989	5584	10.0000	22.66	414.3 -> 57.3		18.75		Norbuprenorphine-D3	5.988	28203
Nordiazepam	271.1 -> 140	1/14/2019 4:05 PM	6.493	18848	10.0000	79.39	271.1 -> 208	1			Nordiazepam-D5	6.492	52807
Norfentanyl	233.2 -> 84.2	1/14/2019 4:05 PM	5.455	120045	10.0000	922.03	233.2 -> 55.3	7			Norfentanyl-D5	5.434	542310
Norhydrocodone	286.2 -> 199	1/14/2019 4:05 PM	5.184	2476	10.0000	5.59	V	16			Norhydrocodone-D3	5.163	53437
Noroxycodone	302.1 -> 284	1/14/2019 4:05 PM	5.079	12238	10.0000	7.87	302.1 -> 186		15.43		Noroxycodone-D3	5.078	98907
O-desmethyl-tramadol	250.2 -> 58.3	1/14/2019 4:05 PM	5.088	147771	10.0000	108.95	250.2 -> 42.3		24.85	8901	O-desmethyl-tramadol	5.068	685454
Oxazepam	287.1 -> 240	1/14/2019 4:05 PM	6.325	8415	10.0000	139.05	287.1 -> 268		5.70	3985	Oxazepam-D5	6 324	46428



Compound Method	ethod	p1 cal 1-2a		<b>p</b> 10	p1 cal 1-2a Results	ភ	Qualifier 1 M Qualifier 1 Results	Quali	fier 1 Re	sults	ISTD Method	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	꼰	Resp.	Calc. Conc.	N/S	Transition	<u>≤</u>	S/N	Area	Name	P.T	Resp.
Oxycodone	316.2 -> 298	1/14/2019 4:05 PM	5.300	40101	10.0000	262.58	316.2 -> 241		16.94	11928	16.94 11928 Oxycodone-D6	5.259	18714
Oxymorphone	302.1 -> 284	1/14/2019 4:05 PM	4.614	35904	10.0000	22.27	302.1 -> 227		27.16	10842	127.16 10842 Oxymorphone-D3	4.572	
Phentermine	150.1 -> 65.2	1/14/2019 4:05 PM	5.274	24698	10.0000	11.43	150.1 -> 133	$\neg$	8	389	389 Phentermine-D5	5.254 34520	345
Promethazine	285.1 -> 86.2	1/14/2019 4:05 PM	6.631	354118	10.0000	1547.40	285.1 -> 71.3		41.95	75755	75755 Promethazine-D3	6.610	18990
Quetiapine	384.2 -> 253	1/14/2019 4:05 PM	6.660	241940	10.0000	1978.49	384.2 -> 221		47.08	1331	547.08   1331   Quetiapine-D8	6.619	34512
Sertraline	306.1 -> 158	1/14/2019 4:05 PM	6.628	50106	10.0000	11200.82	306.1 -> 275	5	5443	50251	50251 Sertraline-D3	6.607 252439	252
Temazepam	301.1 -> 255	1/14/2019 4:05 PM	6.467	58561	10.0000	515.78	301.1 -> 283		26.92	20819	26.92   20819   Temazepam-D5	6.466	27315
Tramadol	264.2 -> 58.3	1/14/2019 4:05 PM	5.574	174838	10.0000	103.72	264.2 -> 43.3	_	8.75	9913	9913   Tramadol-13C-D3	5.573	83800
Trazodone	372.2 -> 176	372.2 -> 176   1/14/2019 4:05 PM	6.864	221250	10.0000	294.11	372.2 -> 148	7 2	26.75	1580	226.75   1580   Trazodone-D6	6.843	10227
Venlafaxine	278.2 -> 58.3	1/14/2019 4:05 PM	5.878	175039	10.0000	133.77	278.2 -> 260	_	52.42	32818	52.42   32818   Venlafaxine-D6	5.857	75869
Zolpidem	308.2 -> 235	308.2 -> 235   1/14/2019 4:05 PM	6.343	176148	10.0000	315.55	308.2 -> 263	□ 5	36.09	57801	536.09 57801 Zolpidem-D6	6.341 910389	910



5.455 586710 5.184 58944 5.098 95545 5.088 723361	Noroxycodone-D3 O-desmethyl-tramadol	250.2 -> 42.3		1/14/2019 4:24 PM	250.2 -> 58.3	O-desmethyl-tramadol
(7)	Noroxycodone-D3					
(7)		302.1 -> 186		1/14/2019 4:24 PM	302.1 -> 284	Noroxycodone
(5)	Norhydrocodone-D3			1/14/2019 4:24 PM	286.2 -> 199	Norhydrocodone
	Norfentanyl-D5			1/14/2019 4:24 PM	233.2 -> 84.2	Norfentanyl
	Nordiazepam-D5			1/14/2019 4:24 PM	271.1 -> 140	Nordiazepam
w	Norbuprenorphine-D3	414.3 -> 57.3		1/14/2019 4:24 PM	414.3 -> 101	Norbuprenorphine
	Morphine-D6	286.2 -> 165		1/14/2019 4:24 PM	286.2 -> 201	Morphine
5.132 306891	Methamphetamine-D11			1/14/2019 4:24 PM	150.1 -> 91.1	Methamphetamine
6.319 823881	Methadone-D9	310.2 -> 105		1/14/2019 4:24 PM	310.2 -> 265	Methadone
5.681 125685	Meprobamate-D7			1/14/2019 4:24 PM	219.1 -> 158	Meprobamate
5.594 817593	Tramadol-13C-D3	399.2 -> 174		1/14/2019 4:24 PM	399.2 -> 238	Mitragynine
5.594 817593	Tramadol-13C-D3			1/14/2019 4:24 PM	195	Mirtazapine
6.087 337108	Ketamine-D4	238.1 -> 220		1/14/2019 4:24 PM	-> 125	Ketamine
4.839 53483	Hydromorphone-D6	286.2 -> 157		1/14/2019 4:24 PM	184	Hydromorphone
5.485 164564	Hydrocodone-D6	300.2 -> 128		1/14/2019 4:24 PM	300.2 -> 198	Hydrocodone
6.299 948284	Fluoxetine-D6	310.1 -> 148		1/14/2019 4:24 PM	310.1 -> 44.3	Fluoxetine
6.500 12562	Fentanyl-D5	337.2 -> 188		1/14/2019 4:24 PM	337.2 -> 105	Fentanyl
6.061 825701	EDDP-D3			1/14/2019 4:24 PM	279.2 -> 235	EDDP
5.756 923813	Doxylamine-D5	271.2 -> 167		1/14/2019 4:24 PM	271.2 -> 182	Doxylamine
6.107 11647	Diphenhydramine-D3	256.2 -> 152		1/14/2019 4:24 PM	256.2 -> 167	Diphenhydramine
5.036 98872	Dihydrocodeine-D6	302.2 -> 128		1/14/2019 4:24 PM	302.2 -> 198	Dihydrocodeine
	Diazepam-D5			1/14/2019 4:24 PM	285.1 -> 193	Diazepam
	Dextrorphan-D3			1/14/2019 4:24 PM	258.2 -> 157	Dextrorphan
	Dextromethorphan-D3		And the second s	1/14/2019 4:24 PM	272.2 -> 171	Dextromethorphan
_	Cyclobenzaprine-D3			1/14/2019 4:24 PM	276.2 -> 214	Cyclobenzaprine
	Codeine-D6	300.2 -> 165		1/14/2019 4:24 PM	300.2 -> 215	Codeine
	Clonazepam-D4	316.1 -> 213   -		1/14/2019 4:24 PM	316.1 -> 269	Clonazepam
	Citalopram-D6			1/14/2019 4:24 PM	325.2 -> 109	Citalopram
	Carisoprodol-D7		- Annother the second	1/14/2019 4:24 PM	261.2 -> 176	Carisoprodol
	Bupropion-D9			1/14/2019 4:24 PM	240.1 -> 184	Bupropion
	Cocaine-D3			1/14/2019 4:24 PM	304.2 -> 182	Cocaine
4.971 132776	Amphetamine-D11			1/14/2019 4:24 PM	136.1 -> 91.1	Amphetamine
6.402 163813	Alprazolam-D5			1/14/2019 4:24 PM	309.1 -> 281	Alprazolam
	alpha-PVP-d8			1/14/2019 4:24 PM	232.2 -> 91.0	alpha-PVP
6.317 31898	a-hydroxyalprazolam-D5	325.1 -> 215		1/14/2019 4:24 PM	325.1 -> 297	a-hydroxyalprazolam
5.098 95545	Noroxycodone-D3			1/14/2019 4:24 PM	268.2 -> 116	Metoprolol
5.405 54818	Benzoylecgonine-D8			1/14/2019 4:24 PM	290.1 -> 168	Benzoylecgonine
5.611 89511	7-Aminoclonazepam-D4			1/14/2019 4:24 PM	286.1 -> 121	7-aminoclonazepam
5.339 41925	6-MAM-D6	厂 328.2 -> 211 厂		1/14/2019 4:24 PM	328.2 -> 165	6-MAM
RT Resp.	Name	S/N MI Transition MI S/N Area	Resp. Calc. Conc.	Acq. Date-Time RT	Transition	Name
ISTD Results	ISTD Method	s Qualifier 1 M Qualifier 1 R	p1 negative control Results	p1 negative control	hod	Compound Method



Compound Method	ethod	p1 negative control		p1 nec	p1 negative control Results	sults		Qualifier 1 M   Qualifier 1 R	Qua	lifier	70	ISTD Method	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	곱	Resp.	Calc. Conc.	S/N	≤	Transition	<u> </u>	MI S/N Area	Area	Name	ᇚ	Resp.
Oxycodone	316.2 -> 298	316.2 -> 298   1/14/2019 4:24 PM						316.2 -> 241	rorrig			Oxycodone-D6	5.259 190783	19078
Oxymorphone	302.1 -> 284	302.1 -> 284   1/14/2019 4:24 PM						302.1 -> 227				Oxymorphone-D3	4.592	173625
Phentermine	150.1 -> 65.2	150.1 -> 65.2   1/14/2019 4:24 PM					_	150.1 -> 133				Phentermine-D5	5.274 381671	38167
Promethazine	285.1 -> 86.2	285.1 -> 86.2   1/14/2019 4:24 PM						285.1 -> 71.3				Promethazine-D3	6.610 16838.	16838
Quetiapine	384.2 -> 253	384.2 -> 253 1/14/2019 4:24 PM						384.2 -> 221	_			Quetiapine-D8	6.639 356338	35633
Sertraline	306.1 -> 158	306.1 -> 158   1/14/2019 4:24 PM						306.1 -> 275	****			Sertraline-D3	6.627 231587	23158
Temazepam	301.1 -> 255	301.1 -> 255   1/14/2019 4:24 PM						301.1 -> 283				Temazepam-D5	6.466 289943	28994
Tramadol	264.2 -> 58.3	264.2 -> 58.3 1/14/2019 4:24 PM						264.2 -> 43.3	٦			Tramadol-13C-D3	5.594	817593
Trazodone	372.2 -> 176	372.2 -> 176 1/14/2019 4:24 PM					٦	372.2 -> 148	司			Trazodone-D6	6.843 803008	80300
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3   1/14/2019 4:24 PM					_	278.2 -> 260				Venlafaxine-D6	5.878 784812	78481
Zolpidem	308.2 -> 235	308.2 -> 235   1/14/2019 4:24 PM					٦	308.2 -> 263	1			Zolpidem-D6	6.341 936513	93651



1000	170.0		-		3		2.2	1			THE PERSON NAMED OF THE PERSON NAMED IN TAXABLE PARTY OF THE PERSON NAMED IN TAXABLE PARTY OF THE PERSON NAMED IN TAXABLE PARTY.		
18080	4CE 9	Oxazenam-D5			7	287 1 -> 268	- Posterior				1/14/2019 4:44 PM	287.1 -> 240	Oxazepam
678501	5 068	O-desmethyl-tramadol-			7	250.2 -> 42.3					1/14/2019 4:44 PM	250.2 -> 58.3	O-desmethyl-tramadol
94244	5.078	Noroxycodone-D3			:	302.1 -> 186	www.				1/14/2019 4:44 PM	302.1 -> 284	Noroxycodone
54122	5.163	Norhydrocodone-D3			: 	286.2 -> 171					1/14/2019 4:44 PM	286.2 -> 199	Norhydrocodone
527672	5.434	Norfentanyl-D5			=	233.2 -> 55.3	20000000				1/14/2019 4:44 PM	233.2 -> 84.2	Norfentanyl
48777	6.492	Nordiazepam-D5			=	271.1 -> 208	DEDUK T				1/14/2019 4:44 PM	271.1 -> 140	Nordiazepam
28405	5.988	Norbuprenorphine-D3				414.3 -> 57.3					1/14/2019 4:44 PM	414.3 -> 101	Norbuprenorphine
3907	4.597	Morphine-D6			=	286.2 -> 165					1/14/2019 4:44 PM	286.2 -> 201	Morphine
327013	5.112	Methamphetamine-D11			=	150.1 -> 119					1/14/2019 4:44 PM	150.1 -> 91.1	Methamphetamine
783820	6.319	Methadone-D9				310.2 -> 105	-				1/14/2019 4:44 PM	310.2 -> 265	Methadone
109636	5.660	Meprobamate-D7			=	219.1 -> 97.1		***************************************			1/14/2019 4:44 PM	219.1 -> 158	Meprobamate
803514	5.573	Tramadol-13C-D3			<u>:</u>  -	399.2 -> 174	-				1/14/2019 4:44 PM	399.2 -> 238	Mitragynine
803514	5.573	Tramadol-13C-D3			-	266.2 -> 72.3	- Transport				1/14/2019 4:44 PM	266.2 -> 195	Mirtazapine
327930	6.067	Ketamine-D4				238.1 -> 220	- Santanana (				1/14/2019 4:44 PM	V	Ketamine
44825	4.818	Hydromorphone-D6	94506	8	-	286.2 -> 157	8	86 1603	126727	4.881	1/14/2019 4:44 PM	286.2 -> 184	Hydromorphone
153832	5.485	Hydrocodone-D6	1084	8	-	300.2 -> 128	8	97 3574	229949	5.527	1/14/2019 4:44 PM	-> 198	Hydrocodone
991869	6.279	Fluoxetine-D6				310.1 -> 148					1/14/2019 4:44 PM		Fluoxetine
11982	6.500	Fentanyl-D5			:	337.2 -> 188					1/14/2019 4:44 PM	337.2 -> 105	Fentanyl
764643	6.041	EDDP-D3				279.2 -> 250	**************************************				1/14/2019 4:44 PM	279.2 -> 235	EDDP
849370	5.736	Doxylamine-D5			1	271.2 -> 167	- Treatment				1/14/2019 4:44 PM	271.2 -> 182	Doxylamine
11154	6.107	Diphenhydramine-D3				256.2 -> 152					1/14/2019 4:44 PM	256.2 -> 167	Diphenhydramine
91819	5.036	Dihydrocodeine-D6				302.2 -> 128	contag				1/14/2019 4:44 PM	V	Dihydrocodeine
143091	6.630	Diazepam-D5			-	285.1 -> 153	-				1/14/2019 4:44 PM	285.1 -> 193	Diazepam
152423	5.575	Dextrorphan-D3			=	258.2 -> 133					1/14/2019 4:44 PM	258.2 -> 157	Dextrorphan
179989	6.165	Dextromethorphan-D3			:	272.2 -> 147	*akoloosig				1/14/2019 4:44 PM	272.2 -> 171	Dextromethorphan
409285	6.449	Cyclobenzaprine-D3			<u>:</u> -1	276.2 -> 231	- Species -				1/14/2019 4:44 PM	276.2 -> 214	Cyclobenzaprine
30841	5.261	Codeine-D6			=	300.2 -> 165	Tolaina				1/14/2019 4:44 PM	300.2 -> 215	Codeine
21432	6.279	Clonazepam-D4			-	316.1 -> 213	(manage)				1/14/2019 4:44 PM	316.1 -> 269	Clonazepam
680743	6.114	Citalopram-D6				325.2 -> 262	-				1/14/2019 4:44 PM	325.2 -> 109	Citalopram
320500	6.084	Carisoprodol-D7			=	<u>  261.2 -&gt; 55.3</u>	'soowy:				1/14/2019 4:44 PM	261.2 -> 176	Carisoprodol
394875	6.067	Bupropion-D9			: 	V	Tanada (				1/14/2019 4:44 PM	240.1 -> 184	Bupropion
459477	5.792	Cocaine-D3			-	304.2 -> 105	*Sources				1/14/2019 4:44 PM	304.2 -> 182	Cocaine
140209	4.951	Amphetamine-D11			<u>:</u>	136.1 -> 119	· Downson				1/14/2019 4:44 PM	136.1 -> 91.1	Amphetamine
170942	6.402	Alprazolam-D5				309.1 -> 205	'Announg				1/14/2019 4:44 PM	309.1 -> 281	Alprazolam
463689	5.802	alpha-PVP-d8				77.1					1/14/2019 4:44 PM	232.2 -> 91.0	alpha-PVP
36942	6.317	a-hydroxyalprazolam-D5			<u>:                                    </u>	325.1 -> 215	- Tenderal				1/14/2019 4:44 PM	325.1 -> 297	a-hydroxyalprazolam
94244	5.078	Noroxycodone-D3			7	268.2 -> 56.3	-				1/14/2019 4:44 PM	268.2 -> 116	Metoprolol
48772	5.405	Benzoylecgonine-D8			<u></u>	290.1 -> 105	10000000				1/14/2019 4:44 PM	290.1 -> 168	Benzoylecgonine
99531	5.590	7-Aminoclonazepam-D4			-	286.1 -> 222					1/14/2019 4:44 PM	286.1 -> 121	7-aminoclonazepam
34982	5.339	6-MAM-D6				328.2 -> 211	_				1/14/2019 4:44 PM	328.2 -> 165	6-MAM
Resp.	RT	Name	Area	S/N	<u> </u>	MI Transition	S/N I	Calc. Conc.	Resp.	P	Acq. Date-Time	Transition	Name
ISTD Results	ISTD	ISTD Method	Results	Qualifier 1 Results		Qualifier 1 M	ulits	p1 external control Results	p1 exter		p1 external control	hod	Compound Method
	3				-					-			-



Compound Method	Method	p1 external control		p1 ext	p1 external control Results	sults		Qualifier 1 M		Qualifier 1 Results	esults	ISTD Method	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	꼰	Resp.	Calc. Conc.	S/N	₹	Transition	≦	S/N	Area	Name	괵	Resp
Oxycodone	316.2 -> 298	1/14/2019 4:44 PM						316.2 -> 241				Oxycodone-D6	5.238	16825
Oxymorphone	302.1 -> 284	302.1 -> 284   1/14/2019 4:44 PM						302.1 -> 227	-			Oxymorphone-D3	4.572	
Phentermine	150.1 -> 65.2	1/14/2019 4:44 PM					1	150.1 -> 133				Phentermine-D5	5.274	
Promethazine	285.1 -> 86.2	285.1 -> 86.2   1/14/2019 4:44 PM						285.1 -> 71.3				Promethazine-D3	6.610	
Quetiapine	384.2 -> 253	384.2 -> 253   1/14/2019 4:44 PM						384.2 -> 221	1			Quetiapine-D8	6.619	- 1
Sertraline	306.1 -> 158	306.1 -> 158   1/14/2019 4:44 PM	6.628	521371	1 113 1826	54795		306.1 -> 275		50510	4703		6.607	- 1
Temazepam	301.1 -> 255	301.1 -> 255   1/14/2019 4:44 PM					SHOWING .	301.1 -> 283	7			Temazepam-D5	6.466	27084
Tramadol	264.2 -> 58.3	1/14/2019 4:44 PM						264.2 -> 43.3	1			Tramadol-13C-D3	5.573	80351
Trazodone	372.2 -> 176	372.2 -> 176 1/14/2019 4:44 PM					'some	372.2 -> 148				Trazodone-D6	6.843	702436
Venlafaxine	278.2 -> 58.3	1/14/2019 4:44 PM			***************************************		***************************************	278.2 -> 260	-			Venlafaxine-D6	5.878	72153
Zolpidem	308.2 -> 235	308.2 -> 235   1/14/2019 4:44 PM						308.2 -> 263	-			Zolpidem-D6	6.341	88299



Compound Method  Name  Acetylfentanyl 3  alpha-hydroxymidazol 3  Amitriptyline 2  Acetylnorfentanyl 2  Carbamazepine 2  Chlordiazepoxide 3  Sufentanil 3	Tra 323.2 342.1 278.2 219.1 237.1 300.1		RT 6.327 6.406 6.577 6.116 6.533 6.533	P2 c Resp. 16079 36453 142285 9484 22833 24386	p2 cal 1-2b Results p. Calc. Conc. p. 10.0000	S/N MI 630.88	ansition 2 -> 105 1 -> 203 1 -> 56.3 1 -> 194 1 -> 282 2 -> 111		Qualifier 1 R  MI S/N	Oualifier 1 Results  S/N Area  21.97 21211  8569.37 23741  ~ 74687  23.45 2129  714.80 1952  44.51 19128  64.20 17083	Oualifier 1 Results  S/N Area  21.97 21211  8569.37 23741  ∞ 74687  23.45 2129  714.80 1952  64.20 17083	Qualifier 1 Results         ISTD Method           S/N         Area         Name           21.97         21211         Acetylfentanyl-D5           8569.37         23741         alpha-hydroxymidazolam           ∞         74687         Amitriptyline-D3           23.45         2129         Acetylnorfentanyl-D5           714.80         1952         Carbamazepine-13C6           44.51         19128         Chlordiazepoxide-D5           64 20         17083         Sufentanil D5
Sufentanil Desipramine	387.2 -> 238 267.2 -> 72.3	1/14/2019 4:14	6.908	20210 196058	10.0000	93.67 170.75		387.2 ->   267.2 ->	387.2 ->   267.2 ->	387.2 -> 111	387.2 -> 111	387.2 -> 111
Doxepin Estazolam	280.2 -> 107 295.1 -> 267	1/14/2019 4:14	6.313	97808 39675	10.0000	44.80 258.75	3 8 7	30	280.2 ->   295.1 ->	280.2 -> 77.2   36160   35767   295.1 -> 205   169.82   36767	280.2 -> 77.2   36160   35767   295.1 -> 205   169.82   36767	280.2 -> 77.2   36160   35767   295.1 -> 205   169.82   36767
Flunitrazepam Flurazepam	314.1 -> 268 388.2 -> 315	1/14/2019 4:14	6.389	28939 156159	10.0000	102.06 188.77	)6  7 	314.1 ->	314.1 -> 239	314.1 -> 239   64.91   11136   388.2 -> 317   162.69   35944	314.1 -> 239   64.91   11136   388.2 -> 317   162.69   35944	314.1 -> 239   64.91   11136   Flunitrazepam-D7   388.2 -> 317   162.69   35944   Zopiclone-D4
Imipramine	281.2 -> 86.2	1/14/2019 4:14	6.516	308717	10.0000		8	281.2 ->	<u> </u>	281.2 -> 58.3	281.2 -> 58.3   \infty   1674_	281.2-> 58.3
Maprotiline	278.2 -> 91.2	1/14/2019 4:14	6.396	38540	10.0000	114./2	8 1	2 205.1 -> 1/8 278.2 -> 117	278.2 ->	205.1 -> 1/8   20.67   41530 20.67   45728   26712	205.1 -> 1/8   20.67   278.2 -> 117   45728	205.1 -> 1/8   20.67   41530 20.67   45728   26712
MDA	180.1 -> 163		5.166	55750	10.0000		8	180.1 ->	180.1 -> 105   T	180.1 -> 105   16.22 35229	180.1 -> 105   16.22 35229	180.1 -> 105   16.22   35229 MDA-D5
MDEA	208.1 -> 163	1/14/2019 4:14	5.426	97408 101352	10.0000	39.65		∞	208.1 ->	208.1 -> 105	208.1 -> 105 T	208.1 -> 105
Meperidine	248.2 -> 220	1/14/2019 4:14	5.850	55218	10.0000		8	248.2 ->	248.2 ->	248.2 -> 174   200.33 34472	248.2 -> 174	248.2 -> 174   200.33   34472   Meperidine-D4
Methylphenidate Midazolam	326.1 -> 223	1/14/2019 4:14	5.709 6.549	247798 19245	10.0000	24.02	N 8	234.2 -> 56.3   236.1 -> 249	326.1 ->	234.2 -> 56.3	234.2 -> 56.3   322.49   1	234.2 -> 56.3
Normeperidine 7-Aminoflunitrazepam	234.1 -> 42.3 284.1 -> 135	1/14/2019 4:14	5.762	67045 24591	10.0000	180.62			234.1 ->			
Nortriptyline Phenazepam	264.2 -> 91.2 349 0 -> 206	1/14/2019 4:14	6.418	69376 24692	10.0000	2148 4∩	8 C		264.2 ->			264.2 -> 233   313.83   54653   Nortriptyline-D3   349.0 -> 183   134.48   16506   Dhomaton D4
Phencyclidine	244.2 -> 86.2	1/14/2019 4:14	5.972	160597	10.0000	1	8	244.2 ->	244.2 -> 91.1	244.2 -> 91.1	244.2->91.1	244.2 -> 91.1
Phenytoin Pseudoephedrine	253.1 -> 104 166.1 -> 148	1/14/2019 4:14 1/14/2019 4:14	6.032 4.764	2229 947852	10.0000	923.39	8 0	9	253.1 ->   166.1 ->	253.1 -> 182	253.1 -> 182   4.04 765	253.1 -> 182   4.04   765   Phenytoin-D10
Tapentadol Zaleplon	222.2 -> 107 306.1 -> 236	1/14/2019 4:14	5.568 6.186	136441 49259	10.0000	320.16	0 8	∞				222.2 -> 121
Zopiclone	389.1 -> 244	1/14/2019 4:14	6.362	42884	10.0000	66.22		389.1 ->	389.1 -> 216	389.1 -> 216	389.1 -> 216   © 25482	



6 362 142840	Zoniclone_DA		389 1 -> 216	_		******	***************************************	1/14/2019 4:34 PM	389 1 -> 244	Zoniclone
6.186 207273	Zaleplon-D4	1	306.1 -> 264					1/14/2019 4:34 PM	306.1 -> 236	Zalepion
5.568 660427	Tapentadol-D3		222.2 -> 121					1/14/2019 4:34 PM	222.2 -> 107	Tapentadol
4.763 53122	Pseudoephedrine-D3		166.1 -> 133	- Company				1/14/2019 4:34 PM	166.1 -> 148	Pseudoephedrine
6.011 13822	Phenytoin-D10	The second secon	253.1 -> 182					1/14/2019 4:34 PM	253.1 -> 104	Phenytoin
5.972 778491	Phencydlidine-D5	Tuesday (	244.2 -> 91.1	_				1/14/2019 4:34 PM	244.2 -> 86.2	Phencyclidine
6.425 94298	Phenazepam-D4	and the second	349.0 -> 183					1/14/2019 4:34 PM	349.0 -> 206	Phenazepam
6.418 260803	Nortriptyline-D3		264.2 -> 233	-				1/14/2019 4:34 PM	264.2 -> 91.2	Nortriptyline
5.742 136769	7-aminoflunitrazepam-D7		284.1 -> 93.2					1/14/2019 4:34 PM	284.1 -> 135	7-Aminoflunitrazepam
5.708 226281	Normeperidine-D4		234.1 -> 160					1/14/2019 4:34 PM	234.1 -> 42.3	Normeperidine
6.549 316588	Midazolam-D4		326.1 -> 249					1/14/2019 4:34 PM	326.1 -> 223	Midazolam
5.850 262716	Meperidine-D4		234.2 -> 56.3					1/14/2019 4:34 PM	234.2 -> 84.2	Methylphenidate
5.850 262716	Meperidine-D4		248.2 -> 174					1/14/2019 4:34 PM	248.2 -> 220	Meperidine
5.265 62528	MDMA-D6		194.1 -> 105					1/14/2019 4:34 PM	194.1 -> 163	MDMA
5.426 447331	MDEA-D6		208.1 -> 105					1/14/2019 4:34 PM	208.1 -> 163	MDEA
5.166 290571	MDA-D5	- The state of the	180.1 -> 105					1/14/2019 4:34 PM	180.1 -> 163	MDA
6.556 362985	Amitriptyline-D3		278.2 -> 117					1/14/2019 4:34 PM	278.2 -> 91.2	Maprotiline
6.907 911304	Sufentanil-D5	**************************************	205.1 -> 178					1/14/2019 4:34 PM	205.1 -> 91.2	Levamisole
6.495 787978	Imipramine-D3		281.2 -> 58.3					1/14/2019 4:34 PM	281.2 -> 86.2	Imipramine
6.362 142840	Zopiclone-D4	The state of the s	388.2 -> 317	-				1/14/2019 4:34 PM	388.2 -> 315	Flurazepam
6.368 8239	Flunitrazepam-D7	· szemneg	314.1 -> 239					1/14/2019 4:34 PM	314.1 -> 268	Flunitrazepam
6.330 212730	Estazolam-D5		295.1 -> 205					1/14/2019 4:34 PM	295.1 -> 267	Estazolam
	Doxepin-D3		280.2 -> 77.2					1/14/2019 4:34 PM	280.2 -> 107	Doxepin
6.397 972422	Desipramine-D3		267.2 -> 44.3					1/14/2019 4:34 PM	267.2 -> 72.3	Desipramine
6.907 911304	Sufentanil-D5		387.2 -> 111					1/14/2019 4:34 PM	387.2 -> 238	Sufentanil
6.533 290500	Chlordiazepoxide-D5		300.1 -> 282	www.E				1/14/2019 4:34 PM	300.1 -> 227	Chlordiazepoxide
6.115 10850	Carbamazepine-13C6		237.1 -> 194					1/14/2019 4:34 PM	237.1 -> 193	Carbamazepine
5.017 424444	Acetylnorfentanyl-D5		219.1 -> 56.3	_				1/14/2019 4:34 PM	219.1 -> 84.2	Acetylnorfentanyl
6.556 362985	Amitriptyline-D3		278.2 -> 105	*social				1/14/2019 4:34 PM	278.2 -> 91.2	Amitriptyline
6.385 313529	alpha-hydroxymidazolam		342.1 -> 203					1/14/2019 4:34 PM	342.1 -> 324	alpha-hydroxymidazol
6.306 12838.	Acetylfentanyl-D5		323.2 -> 105					1/14/2019 4:34 PM	323.2 -> 188	Acetylfentanyl
RT Resp.	Name	MI S/N Area	Transition	S/N M	Calc. Conc.	Resp.	꼰	Acq Date-Time	Transition	Name
ISTD Results	ISTD Method	Qualifier 1 R	Qualifier 1 M	iults	p2 negative control Results	p2 nega		p2 negative control	nod	Compound Method



6363 153003	Zoniclone-D4			389.1 -> 216					1/14/2019 4:53	389.1 -> 244	Zopiclone
			and the second	306.1 -> 264				3	1/14/2019 4:53.	306.1 -> 236	Zaleplon
	Tapentadol-D3		1	222.2 -> 121				3	1/14/2019 4:53	222.2 -> 107	Tapentadol
4	Pseudoephedrine-D3		- Carre	166.1 -> 133				3	1/14/2019 4:53.	166.1 -> 148	Pseudoephedrine
			NAME OF THE PARTY	253.1 -> 182	-			3	1/14/2019 4:53.	253.1 -> 104	Phenytoin
5.951 717921	Phencydlidine-D5		Name of the last o	244.2 -> 91.1				3	1/14/2019 4:53	244.2 -> 86.2	Phencyclidine
	4			349.0 -> 183				3	1/14/2019 4:53.	349.0 -> 206	Phenazepam
6.418 257172	7	5447	2055	264.2 -> 233	8	88 8762	8 596935	3 6.418	1/14/2019 4:53	264.2 -> 91.2	Nortriptyline
	7-aminoflunitrazepam-D7			284.1 -> 93.2	****ioonig			3	1/14/2019 4:53	284.1 -> 135	7-Aminoflunitrazepam
5.708 191258	Normeperidine-D4			234.1 -> 160				ιω	1/14/2019 4:53.	234.1 -> 42.3	Normeperidine
6.549 280411	Midazolam-D4			326.1 -> 249				ω	1/14/2019 4:53	326.1 -> 223	Midazolam
			-	234.2 -> 56.3				3	1/14/2019 4:53	234.2 -> 84.2	Methylphenidate
N	Meperidine-D4		· Lucion	248.2 -> 174	Survey Company	- Contraction of the Contraction		ω	1/14/2019 4:53.	248.2 -> 220	Meperidine
	MDMA-D6		Vession	194.1 -> 105	-			ω	1/14/2019 4:53.	194.1 -> 163	MDMA
5.406 425950	MDEA-D6		waster.	208.1 -> 105	Section 1			ω	1/14/2019 4:53	208.1 -> 163	MDEA
5.166 296707	MDA-D5		VOLUM	180.1 -> 105				3	1/14/2019 4:53.	180.1 -> 163	MDA
6.556 362975	Amitriptyline-D3			278.2 -> 117	- maximum and market			ω	1/14/2019 4:53	278.2 -> 91.2	Maprotiline
6.887 778830	Acetoropione			205.1 -> 178				ω	1/14/2019 4:53	205.1 -> 91.2	Levamisole
6.495 779305	Imipramine-D3			281.2 -> 58.3	was a second			ω	1/14/2019 4:53.	281.2 -> 86.2	Imipramine
6.362 153883	Zopiclone-D4			388.2 -> 317	_			ω	1/14/2019 4:53	388.2 -> 315	Flurazepam
6.368 8801	Flunitrazepam-D7		emetr.	314.1 -> 239	Seminary E			3	1/14/2019 4:53.	314.1 -> 268	Flunitrazepam
6.330 243757	Estazolam-D5			295.1 -> 205	***************************************			ω	1/14/2019 4:53.	295.1 -> 267	Estazolam
6.292 525933	<b>B</b> HILL (COTTA)			280.2 -> 77.2	_			3	1/14/2019 4:53	280.2 -> 107	Doxepin
	Desipramine-D3			267.2 -> 44.3				3	1/14/2019 4:53	267.2 -> 72.3	Desipramine
	Sufentanil-D5		booker	387.2 -> 111				3	1/14/2019 4:53.	387.2 -> 238	Sufentanil
6.533 271370	Chlordiazepoxide-D5		and the second	300.1 -> 282	-			ω	1/14/2019 4:53	300.1 -> 227	Chlordiazepoxide
6.095 10036	Carbamazepine-13C6		-	237.1 -> 194	XXXXX Y			3	1/14/2019 4:53.	237.1 -> 193	Carbamazepine
5.017 406985	Acetylnorfentanyl-D5			219.1 -> 56.3				3	1/14/2019 4:53.	219.1 -> 84.2	Acetylnorfentanyl
6.556 362975	Amitriptyline-D3			278.2 -> 105				3	1/14/2019 4:53	278.2 -> 91.2	Amitriptyline
6.385 324915	alpha-hydroxymidazolam		Niau.	342.1 -> 203				ω	1/14/2019 4:53.	342.1 -> 324	alpha-hydroxymidazol
6.306 12091	Acetylfentanyl-D5		e come	323.2 -> 105 [	ī			3	1/14/2019 4:53	323.2 -> 188	Acetylfentanyl
RT Resp.	Name	Area	M S/N	Transition N	S/N MI	Calc. Conc.	Resp.	me RT	Acq. Date-Time	Transition	Name
ISTD Results	ISTD Method	Results	Qualifier 1 Results	Qualifier 1 M	ults	p2 external control Results	p2 exter	ntrol	p2 external control	lod	Compound Method



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

Extraction Date: 1/14/19

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** 

Blank Blood Lot: 18G207D7

Hexane

**LCMS-QQQ ID**: 62340

Column: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)

## **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.
- 2. Pipette 1000 μL blood (calibrated pipette) Pipette ID: k52558g in wells of analytical (standards) plate.
  - Blank blood for locations containing standards/QCs and internal standards
  - Sample blood for locations containing only internal standards
- △ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 66759
- ∑ 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.
- 2. 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: 66792
- ⊠ 8. Wait 5 minutes.
- Ø 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).
- ☑ 13. Wait 5 minutes.
- △ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- △ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID: 66819
- Δ 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.
  - Batch Name: cann screen
- ☑ 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- ☑ 3. Retention time within +/- 2% or +/-.100 min whichever is greater of the average retention time of the calibrators.
- □ A. Did all QCs pass for each analyte? Y / N
- ☑ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

#### **COMMENTS:**

Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

**Analysis Info** 

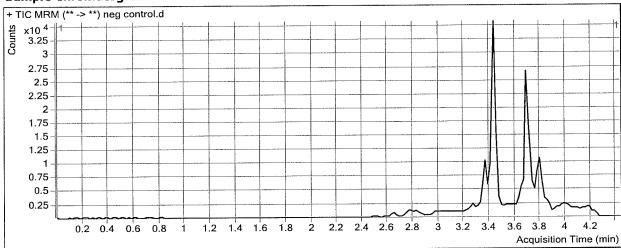
Acq Time2019-01-15 09:57Data Fileneg control.dSample TypeSampleSample Nameneg control

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

Position P1-A2 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

### **Sample Chromatogram**



A -

ISP cann screen report.xlsx Printed at: 11:04 AM on: 1/15/2019

Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

**Analysis Info** 

 Acq Time
 2019-01-15 02:41
 Data File
 QC 5 -10ng.d

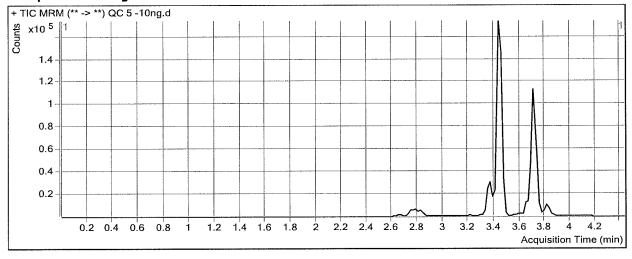
 Sample Type
 QC
 Sample Name
 QC 5 -10ng

 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	3.366	16477	81363	0.2025	11.2741
THC-OH	3,453	15802	424609	0.0372	5.0461
THC	3.820	296	8749	0.0339	3.5431

A

## **ISP Forensics Calibration Curve Report**

**Batch Data Path** 

D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

**Last Calib Update** 

1/15/2019 11:01 AM

**Analyst Name** 

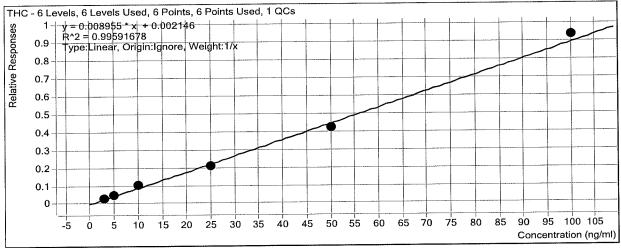
ISP TOX

Target Compound

THC

Internal Standard

THC-d3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	☑	3	3.2	106.3
cal 2 - 5ng	2	$\square$	5	4.7	93.4
cal 3 - 10ng	3	☑	10	11.0	109.5
cal 4 - 25ng	4	Ø	25	23.2	92.8
cal 5 - 50ng	5	☑	50	47.1	94.1
cal 6 - 100ng	6	$\square$	100	103.9	103.9
QC 5 -10ng	7	☑	5	3.5	70.9

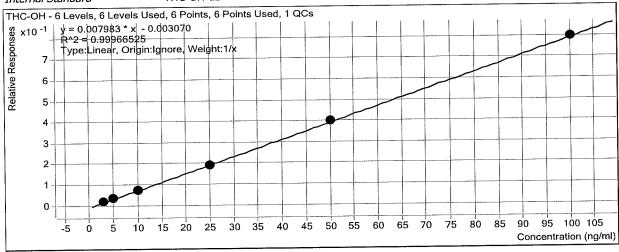


# ISP Forensics Calibration Curve Report

Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

Last Calib Update 1/15/2019 11:01 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	3.2	106.6
cal 2 - 5ng	2	$\square$	5	4.9	97.6
cal 3 - 10ng	3	☑	10	9.6	96.1
cal 4 - 25ng	4	$\square$	25	24.6	98.3
cal 5 - 50ng	5	$\square$	50	50.7	101.3
cal 6 - 100ng	6	☑	100	100.1	100.1
QC 5 -10ng	7	☑	5	5.0	100.9



calibration report.xlsx Page 2 of 3

# ISP Forensics Calibration Curve Report

**Batch Data Path** 

D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

**Last Calib Update** 

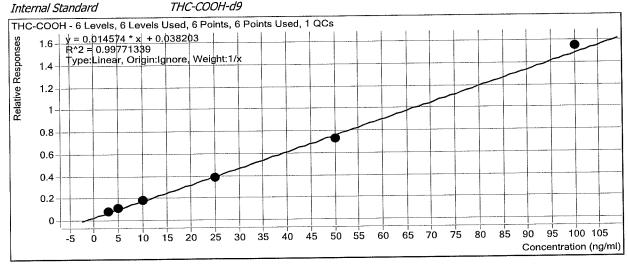
1/15/2019 11:01 AM

**Analyst Name** 

ISP TOX

Target Compound

THC-COOH THC-COOH-d9



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	$\square$	3	3.2	107.3
cal 2 - 5ng	2	☑	5	4.9	97.3
cal 3 - 10ng	. 3	$\square$	10	10.2	101.6
cal 4 - 25ng	4	☑	25	23.9	95.5
cal 5 - 50ng	5	☑	50	47.4	94.9
cal 6 - 100ng	6	☑	100	103.5	103.5
QC 5 -10ng	7	☑	10	11.3	112.7



Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

**Analysis Info** 

 Acq Time
 2019-01-15 02:01
 Data File
 cal 1 - 3ng.d

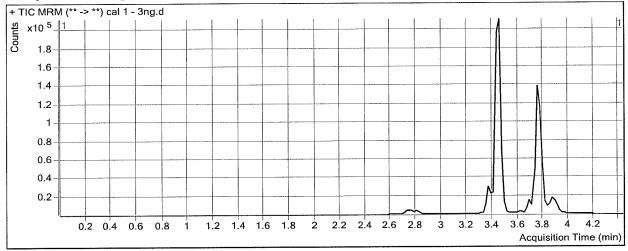
 Sample Type
 Calibration
 Sample Name
 cal 1 - 3ng

 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	7597	89267	0.0851	3.2182
THC-OH	3.453	13012	579291	0.0225	3.1982
THC	3.880	771	25126	0.0307	3.1880



Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

**Analysis Info** 

ISP cann screen report.xlsx

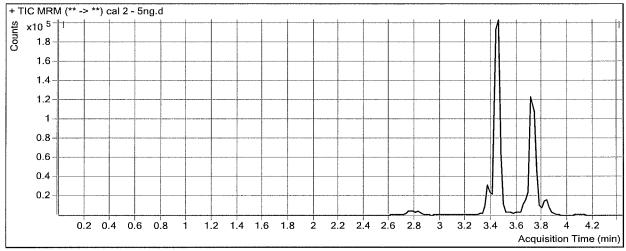
Acq Time2019-01-15 02:07Data Filecal 2 - 5ng.dSample TypeCalibrationSample Namecal 2 - 5ng

**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	9520	87237	0.1091	4.8669
THC-OH	3,453	19794	551670	0.0359	4.8789
THC	3.820	921	20954	0.0439	4.6680



Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

**Analysis Info** 

 Acq Time
 2019-01-15 02:14
 Data File
 cal 3 - 10ng.d

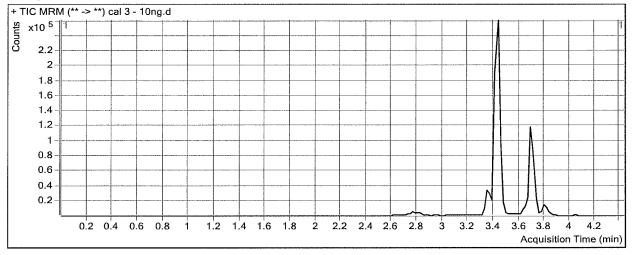
 Sample Type
 Calibration
 Sample Name
 cal 3 - 10ng

Dilution 1 Acq Method Screen THC 8-2017.m

Position p1-d1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

### **Sample Chromatogram**



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.366	17439	93614	0.1863	10.1613
THC-OH	3.433	45932	623459	0.0737	9.6129
THC	3.800	1721	17167	0.1002	10.9541

A

ISP cann screen report.xlsx Printed at: 11:04 AM on: 1/15/2019

Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

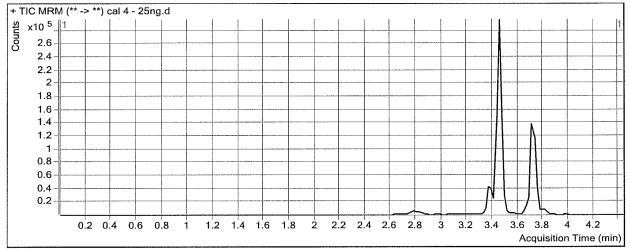
**Analysis Info** 

Acq Time2019-01-15 02:21Data Filecal 4 - 25ng.dSample TypeCalibrationSample Namecal 4 - 25ngDilution1Acq MethodScreen THC 8-2017.m

Position P1-E1 Sample Info

Inj Voi -1 Comment AM 26 Cannabinoid screen

#### **Sample Chromatogram**



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.386	37569	97334	0.3860	23.8638
THC-OH	3.453	115971	600679	0.1931	24.5684
THC	3.820	1280	6102	0.2098	23.1890



Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

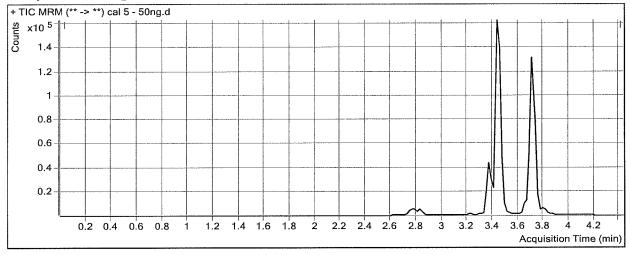
**Analysis Info** 

Acq Time2019-01-15 02:27Data Filecal 5 - 50ng.dSample TypeCalibrationSample Namecal 5 - 50ngDilution1Acq MethodScreen THC 8-2017.m

Position p1-f1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

### **Sample Chromatogram**



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3,366	44359	60811	0.7295	47.4325
THC-OH	3,453	120422	299974	0.4014	50.6701
THC	3.800	1801	4252	0.4237	47.0742

A

Batch Data Path D:\2019 Data\am25-26\011419 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 1/15/2019 11:01 AM
 Analyst Name
 ISP Tox

 Report Time
 1/15/2019 11:02 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/15/2019 11:01 AM
 Batch State
 Processed

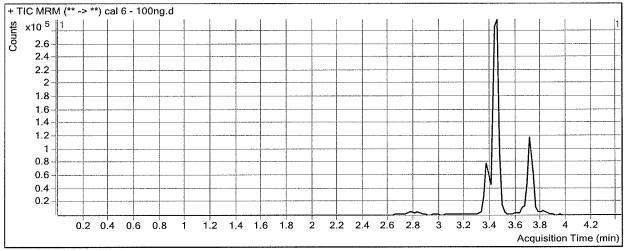
**Analysis Info** 

Acq Time2019-01-15 02:34Data 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	3.366	115256	74554	1.5459	103.4573
THC-OH	3.453	346974	435992	0.7958	100.0714
THC	3.820	4153	4452	0.9328	103.9266

A