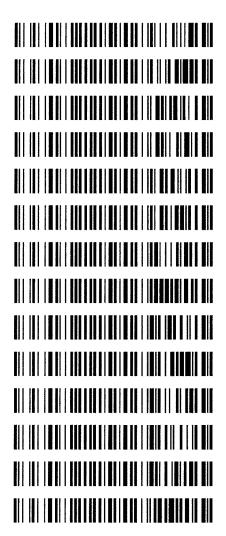


Worklist: 2578

<u>LAB_CASE</u> C2018-1231	ITEM 2	TASK ID 119677	DESCRIPTION  AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1243	1	119776	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1286	1	120471	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
C2018-1287	1	120473	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1299	1	120553	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1300	1	120556	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1305	1	120701	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1318	1	120800	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1328	1	120886	AM 25/AM 26 Blood MultiDrug/THC Screen by L0
C2018-1329	1	120889	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
C2018-1335	1	120898	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
C2018-1339	2	120905	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-1361	1	121056	AM 25/AM 26 Blood MultiDrug/THC Screen by L0
C2018-1383	1	121201	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo





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

Extrac Plate 1	tion Date: 7-17-18 Analyst: Anne Nord ot#: 0515207 Plate Expiration: 10/18/2018
0. <b>Blank</b>	e phase A: 10mM Amm Form  Mobile phase B: 0.1% Formic Acid in MeOH  5M Ammonium Hydroxide  Ethyl Acetate  LC Methanol  Blood Lot: 17J20718  Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)  S-QQQ ID: 62340
Pre-A	Analytic:
<u>(</u> 1.	Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
<ul><li></li></ul>	Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
¥ 3.	Create worklist:
Analy	vtic:
<u>√</u> 1.	Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
<ul><li>✓ 2.</li></ul>	Pipette 250µL blood (calibrated pipette) Pipette ID: 1926134 in wells of analytical (standards) plate.
1	Place on shaking incubator at ambient temp., 900rpm for 15 minutes. <i>Shaker ID: 66759</i>
(	
1	Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
	Transfer 300µL of blood+base mixture to corresponding wells of SLE+ plate.
√	Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
7	(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
፟ጆ 8.	Wait 5 minutes.
	Add 900uL ethyl acetate.
	Wait 5 minutes.
四 11.	Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
<b>□ 12.</b>	Add 900uL ethyl acetate.
□ 13.	Wait 5 minutes.
X 14.	Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
	Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID: 66819
፟ 16.	Reconstitute in $100\mu L$ $100\%$ LC MeOH and heat seal plate with foil. Place in autosampler and run worklist.
Post-	Analytic
$\boxtimes$ 1.	
	Open quantitation software and create a new quantitation batch.  Batch Name: 07/7/8 AM 25-26 Worklist path: MdS PA
☑ 2.	Make necessary changes to integration limits
四 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
R 1	administrative control.
Æ 4. Ϫ 5.	Did all QCs pass for each analyte? (Y)/ N Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports
<i>∖</i> ⊸4 <i>J</i> •	Contain the facket to include. Living working, wiethout enceking, Campiation and Control Reports
COMM	ENTS:

 $\mathcal{A}$ 

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

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	hod	p1 cal 1-2a	p1 ca	p1 cal 1-2a Results	i i	Qualifier 1 M	Qualifier 1 Results	Results	ISTD Method	hod	ISTDI	ISTD Results
Name	Transition	Acq. Date-Time	RTR	Resp.	S/N	Transition	S/N	Area	Name	Transition	召	Resp.
Phentermine	150.1 -> 65.2	7/17/2018 11:01 A 5.234		23641	Infinity	Infinity 150.1 -> 133	Infinity	881	881 Phentermine-D5	155.2 -> 96.2	5.213 240242	24024
Promethazine	285.1 -> 86.2	7/17/2018 11:01 A   6.711   455172	.711 4	55172	551.39	551.39 285.1 -> 71.3	188.02	95555	95555 Promethazine-D3	288.2 -> 89.2	6.691	26516
Quetiapine	384.2 -> 253	384.2 -> 253   7/17/2018 11:01 A   6.721   249693	.721 2	49693	93609.96	93609.96 384.2 -> 221	23614.01	1369	1369   Quetiapine-D8	392.2 -> 226   6.699   392738	6.699	3927
Sertraline	306.1 -> 158	306.1 -> 158   7/17/2018 11:01 A   6.749		56282	159.49	159.49 306.1 -> 275	14704.97	53078	14704.97 53078 Sertraline-D3	309.1 -> 275   6.728   327089	6.728	3270
Temazepam	301.1 -> 255	301.1 -> 255   7/17/2018 11:01 A   6.548		89531	169.28	169.28   301.1 -> 283	26.41	32979	32979 Temazepam-D5	306.1 -> 260   6.527   501443	6.527	5014
Tramadol	264.2 -> 58.3	264.2 -> 58.3   7/17/2018 11:01 A   5.615   274446	.615 2	74446	178.02	178.02 264.2 -> 43.3	9.88	12378	9.88 12378 Tramadol-13C-D3	268.2 -> 58.3	5.594	15225.
Trazodone	372.2 -> 176	372.2 -> 176   7/17/2018 11:01 A   6.884   271355	.884 2	71355	46424.44	46424.44 372.2 -> 148	158197	1917	1917 Trazodone-D6	378.2 -> 182   6.863	6.863	13589
Venlafaxine	278.2 -> 58.3	7/17/2018 11:01 A 5.940		281364	619.99	619.99 278.2 -> 260	41.05		53121 Venlafaxine-D6	284.2 -> 64.3	5.919	14289
Zolpidem	308.2 -> 235	308.2 -> 235   7/17/2018 11:01 A   6.445   255933	.445 2	55933	5255.93	5255.93   308.2 -> 263	Infinity	93758	Infinity 93758 Zolpidem-D6	314.2 -> 235   6.422	6.422	15391.



Compound Method	hod	p1negative control	p1nega	p1negative control Results	l Results	Qualifier 1 M	Qualifier 1	¥ 1 R	ISTD Method		ISTD	ISTD Results
Name	Transition	Acq. Date-Time	꾸	Resp.	S/N	Transition	SN	Area	Name	Transition	RT	Resp.
6-MAM	328.2 -> 165	7/17/2018 11:20 AM				328.2 -> 211			6-MAM-D6	334.2 -> 165	5.420	68696
7-aminoclonazepam	v	7/17/2018 11:20 AM				286.1 -> 222			7-Aminoclonazepam-D4	290.1 -> 121	5.507	173995
Benzoylecgonine	290.1 -> 168	7/17/2018 11:20 AM							Benzoylecgonine-D8	298.2 -> 171	5.284	6692
Metoprolol	268.2 -> 116	7/17/2018 11:20 AM				268.2 -> 56.3			Noroxycodone-D3	305.2 -> 287	4.976	194621
a-hydroxyalprazolam	325.1 -> 297	7/17/2018 11:20 AM				325.1 -> 215			a-hydroxyalprazolam-D5	330.1 -> 302	6.379	55245
alpha-PVP	232.2 -> 91.0	7/17/2018 11:20 AM				232.2 -> 77.1			alpha-PVP-d8	240.2 -> 91.1	5.904	740042
Alprazolam	309.1 -> 281	7/17/2018 11:20 AM				309.1 -> 205			Alprazolam-D5	314.1 -> 286	6.484	292394
Amphetamine	136.1 -> 91.1	7/17/2018 11:20 AM	4.931	49721	25.64	136.1 -> 119		J	Amphetamine-D11	147.2 -> 130	4.890	107215
Cocaine	304.2 -> 182	7/17/2018 11:20 AM				304.2 -> 105			Cocaine-D3	307.2 -> 185	5.874	918351
Bupropion	V	7/17/2018 11:20 AM				240.1 -> 131			Bupropion-D9	249.2 -> 185	6.169	675566
Carisoprodol	261.2 -> 176	7/17/2018 11:20 AM				261.2 -> 55.3			Carisoprodol-D7	268.2 -> 183	6.126	549487
Citalopram	325.2 -> 109	7/17/2018 11:20 AM				325.2 -> 262			Citalopram-D6	331.2 -> 109	6.195	11783
Clonazepam	316.1 -> 269	7/17/2018 11:20 AM				316.1 -> 213			Clonazepam-D4	320.1 -> 217	6.319	44997
Codeine	300.2 -> 215	7/17/2018 11:20 AM				300.2 -> 165			Codeine-D6	306.2 -> 218	5.403	54231
Cyclobenzaprine	V	7/17/2018 11:20 AM				٧̈			Cyclobenzaprine-D3	279.2 -> 215	6.571	720003
Dextromethorphan	272.2 -> 171	7/17/2018 11:20 AM		,,,,,,,,,,,,		272.2 -> 147			Dextromethorphan-D3	275.2 -> 171	6.288	354832
Dextrorphan	258.2 -> 157	7/17/2018 11:20 AM				V			Dextrorphan-D3	261.2 -> 157	5.575	299569
Diazepam	285.1 -> 193	7/17/2018 11:20 AM				285.1 -> 153			Diazepam-D5	290.1 -> 198	6.710	245315
Dihydrocodeine	302.2 -> 198	7/17/2018 11:20 AM				302.2 -> 128			Dihydrocodeine-D6	308.2 -> 202	5.097	166900
Diphenhydramine	256.2 -> 167	7/17/2018 11:20 AM				256.2 -> 152			Diphenhydramine-D3	259.2 -> 167	6.209	20343
Doxylamine	271.2 -> 182	7/17/2018 11:20 AM				271.2 -> 167			Doxylamine-D5	276.2 -> 187	5.818	16113
EDDP	279.2 -> 235	7/17/2018 11:20 AM				279.2 -> 250			EDDP-D3	282.2 -> 235	6.163	110016
Fentanyl	337.2 -> 105	7/17/2018 11:20 AM				337.2 -> 188		<del>-10</del> 1/a	Fentanyl-D5	342.3 -> 105	6.581	19574
Fluoxetine		//1 //2018 11:20 AM				V			Fluoxetine-D6	316.2 -> 44.3	6.401	16/4/
Hydrocodone	300.2 -> 198	7/17/2018 11:20 AM				١٧			Hydrocodone-D6	306.2 -> 202	5.608	277522
Hydromorphone	286.2 -> 184	7/17/2018 11:20 AM				286.2 -> 157			Hydromorphone-D6	292.2 -> 185	4.939	94450
Ketamine	238.1 -> 125	7/17/2018 11:20 AM				238.1 -> 220			Ketamine-D4	242.1 -> 129	6.169	559623
Mirtazapine	266.2 -> 195	7/17/2018 11:20 AM				266.2 -> 72.3			Tramadol-13C-D3	268.2 -> 58.3	5.594	15172
Mitragynine	399.2 -> 238	7/17/2018 11:20 AM				399.2 -> 174			Tramadol-13C-D3	268.2 -> 58.3	5.594	15172
Meprobamate	219.1 -> 158	7/17/2018 11:20 AM				219.1 -> 97.1			Meprobamate-D7	226.2 -> 165	5.599	164990
Methadone	310.2 -> 265	7/17/2018 11:20 AM				310.2 -> 105			Methadone-D9	319.3 -> 268	6.503	15301
Methamphetamine	150.1 -> 91.1	7/17/2018 11:20 AM	5.153	149947	Infinity	150.1 -> 119	25.24	44930		161.2 -> 97.1	5.071	139584
Morphine	286.2 -> 201	7/17/2018 11:20 AM				286.2 -> 165			Morphine-D6	292.2 -> 152	4.677	3945
Norbuprenorphine	414.3 -> 101	7/17/2018 11:20 AM				414.3 -> 57.3			Norbuprenorphine-D3	417.3 -> 101	6.009	37718
Nordiazepam	271.1 -> 140	7/17/2018 11:20 AM				271.1 -> 208		,,,,,,,,,,,	Nordiazepam-D5	276.1 -> 140	6.572	109848
Norfentanyl	233.2 -> 84.2	7/17/2018 11:20 AM	www.			233.2 -> 55.3			Norfentanyl-D5	238.2 -> 84.2	5.434	756990
Norhydrocodone	286.2 -> 199	7/17/2018 11:20 AM				286.2 -> 171	-		Norhydrocodone-D3	289.2 -> 202	5.082	79363
Noroxycodone	302.1 -> 284	7/17/2018 11:20 AM				302.1 -> 186			Noroxycodone-D3	305.2 -> 287	4.976	194621
O-desmethyl-tramadol	250.2 -> 58.3	7/17/2018 11:20 AM				250.2 -> 42.3			O-desmethyl-tramadol	256.2 -> 64.3	5.007	11258
Oxazepam	287.1 -> 240	7/17/2018 11:20 AM				287.1 -> 268			Oxazepam-D5	292.1 -> 246	6.385	156901
Oxycodone	316.2 -> 298	7/17/2018 11:20 AM				316.2 -> 241			Oxycodone-D6	322.2 -> 304	5.299	382738
Oxymorphone	302.1 -> 284	7/17/2018 11:20 AM				302.1 -> 227	-		Oxymorphone-D3	305.2 -> 287	4.592	393921



Compound Method	lethod	p1negative control	p1nega	ative contro	ol Results	p1negative control Results   Qualifier 1 M	Qualifier 1 R	T 1 R.	ISTD Method	hod	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	끅	Resp.	N/S	Transition	S/N	Area	Name	Transition	召	Resp.
Phentermine	150.1 -> 65.2	150.1 -> 65.2 7/17/2018 11:20 AM	5.153	26605	1.54	1.54 150.1 -> 133			Phentermine-D5	155.2 -> 96.2	5.213	301919
Promethazine	285.1 -> 86.2	285.1 -> 86.2 7/17/2018 11:20 AM				285.1 -> 71.3			Promethazine-D3	288.2 -> 89.2	6.691	30260
Quetiapine	384.2 -> 253	384.2 -> 253   7/17/2018 11:20 AM				384.2 -> 221			Quetiapine-D8	392.2 -> 226   6.699	6.699	427979
Sertraline	306.1 -> 158	306.1 -> 158 7/17/2018 11:20 AM				306.1 -> 275			Sertraline-D3	309.1 -> 275   6.728	6.728	385995
Temazepam	301.1 -> 255	301.1 -> 255 7/17/2018 11:20 AM				301.1 -> 283			Temazepam-D5	306.1 -> 260 6.527	6.527	556416
Tramadol	264.2 -> 58.3	264.2 -> 58.3 7/17/2018 11:20 AM				264.2 -> 43.3			Tramadol-13C-D3	268.2 -> 58.3	5.594	15172
Trazodone	372.2 -> 176	372.2 -> 176 7/17/2018 11:20 AM				372.2 -> 148			Trazodone-D6	378.2 -> 182 6.863	6.863	13846
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3   7/17/2018 11:20 AM				278.2 -> 260			Venlafaxine-D6	284.2 -> 64.3	5.919	14698
Zolpidem	308.2 -> 235	308.2 -> 235 7/17/2018 11:20 AM				308.2 -> 263	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Zolpidem-D6	314.2 -> 235 6.422	6.422	15413



Compound Method	od Transition	p1 external control Acq. Date-Time	p1 ext	p1 external control Resul  RT Resp. S/N	ol Resul S/N	Qualifier 1 M Transition	Qualifier 1 Results S/N Area	Results Area	IS- Name	TD Metho	ISTD Method Transition	
6-MAM	328.2 -> 165	7/17/2018 11:40 AM				328.2 -> 211			6-MAM-D6	D6	D6 334.2 → 165	334.2 ->
7-aminoclonazepam	286.1 -> 121	7/17/2018 11:40 AM	•••••			286.1 -> 222			7-Am	7-Aminoclonazepam-D4	າnazepam-D4   290.1 ->	onazepam-D4   290.1 -> 121
Benzoylecgonine	290.1 -> 168	7/17/2018 11:40 AM							Ben	Benzoylecgonine-D8	298.2 ->	298.2 -> 171
Metoprolol		7/17/2018 11:40 AM	***************************************			268.2 -> 56.3			Nor	Noroxycodone-D3	305.2	305.2 -> 287
a-hydroxyalprazolam	V	7/17/2018 11:40 AM				325.1 -> 215			a-hy	a-hydroxyalprazolam-D5		
alpha-PVP	232.2 -> 91.0	7/17/2018 11:40 AM				232.2 -> 77.1			alp	alpha-PVP-d8	and substitution of the	240.2 -> 91.1
Alprazolam	309.1 -> 281	7/17/2018 11:40 AM		***************************************		309.1 -> 205			≥	Alprazolam-D5	prazolam-D5 314.1 -> 286	01
Amphetamine	136.1 -> 91.1	7/17/2018 11:40 AM	4.931	29090	Infinity	136.1 -> 119			Ъ	Amphetamine-D11	mphetamine-D11   147.2 -> 130	
Cocaine	304.2 -> 182	7/17/2018 11:40 AM	v			304.2 -> 105			$\overline{}$	Cocaine-D3	Cocaine-D3 307.2 -> 185	307.2 ->
Bupropion	V	7/17/2018 11:40 AM				V			·······	Bupropion-D9	249.2 ->	249.2 ->
Carisoprodol	261.2 -> 176	7/17/2018 11:40 AM			~~~~	261.2 -> 55.3				Carisoprodol-D7		
Citalopram	νĺ	7/17/2018 11:40 AM				V				Citalopram-D6		331.2 -> 109
Clonazepam	V	7/17/2018 11:40 AM				316.1 -> 213			1	Clonazepam-D4	4	4
Codeine	300.2 -> 215	7/17/2018 11:40 AM	5 65 I	10945	95.82	300.2 ->	51.47	31106	6		Codeine-D6	Codeine-D6
Cyclobenzaprine	276.2 -> 214	7/17/2018 11:40 AM				276.2				Cyclobenzaprine-D3	Cyclobenzaprine-D3   279.2 -> 215	prine-D3
Dextromethorphan	V	7/17/2018 11:40 AM				272.2 -> 147				Dextromethorphan-D3	Dextromethorphan-D3 275.2 -> 171	ŭ
Dextrorphan	258.2 -> 157	7/17/2018 11:40 AM				258.2 -> 133				Dextrorphan-D3	Dextrorphan-D3 261.2 -> 157	261.2 ->
Diazepam	285.1 -> 193	7/17/2018 11:40 AM	•			285.1 -> 153				Diazepam-D5	290.1 ->	290.1 ->
Dihydrocodeine	302.2 -> 198	7/17/2018 11:40 AM				302.2 -> 128				Dihydrocodeine-D6	Dihydrocodeine-D6 308.2 -> 202	
Diphenhydramine	256.2 -> 167	7/17/2018 11:40 AM				256.2 -> 152			*******	Diphenhydramine-D3	Diphenhydramine-D3 259.2 -> 167	umauao
Doxylamine	271.2 -> 182	7/17/2018 11:40 AM			*********	271.2 -> 167				Doxylamine-D5	Doxylamine-D5 276.2 -> 187	276.2>
EDDP	279.2 -> 235	7/17/2018 11:40 AM		•••••		279.2 -> 250				EDDP-D3	EDDP-D3 282.2 -> 235	
Fentanyl	337.2 -> 105	7/17/2018 11:40 AM				337.2 -> 188				Fentanyl-D5	-	342.3 -> 105
Fluoxetine	v	7/17/2018 11:40 AM				310.1 -> 148				Fluoxetine-D6		316.2 -> 44.3
Hydrocodone	300.2 -> 198	7/17/2018 11:40 AM	5.651	354285	236.39	300.2 ->	73.18	1471		Hydrocodone-D6		
Hydromorphone	٧.	7/17/2018 11:40 AM	5.022	237890			123.66	1614		Hydromorphone-D6	Hydromorphone-D6   292.2 -> 185	292.2 -> 185
Ketamine	v	7/17/2018 11:40 AM				238.1 ->				Ketamine-D4	Ketamine-D4   242.1 -> 129	
Mirtazapine	٧l	7/17/2018 11:40 AM				266.2 -> 72.3				Tramadol-13C-D3	Tramadol-13C-D3 268.2 -> 58.3	C-D3 268.2 -> 58.3
Mitragynine	V	7/17/2018 11:40 AM				399.2 -> 174				Tramadol-13C-D3	Tramadol-13C-D3   268.2 -> 58.3	
Meprobamate	V	7/17/2018 11:40 AM				219.1 -> 97.1				Meprobamate-D7	Meprobamate-D7   226.2 -> 165	
Methadone	310.2 -> 265	7/17/2018 11:40 AM				310.2 -> 105				Methadone-D9		319.3 -> 268
Methamphetamine	150.1 -> 91.1	7/17/2018 11:40 AM	5.132	161221	Infinity	150.1 ->	Infinity	5284	0	52840 Methamphetamine-D11		161.2 -> 97.1
Morphine	286.2 -> 201	7/17/2018 11:40 AM				286.2 -> 165				Morphine-D6	Morphine-D6   292.2 -> 152	
Norbuprenorphine	414.3 -> 101	7/17/2018 11:40 AM				414.3 -> 57.3				Norbuprenorphine-D3	Norbuprenorphine-D3 417.3 -> 101	ohine-D3
Nordiazepam	v	7/17/2018 11:40 AM				271.1 -> 208				Nordiazepam-D5	Nordiazepam-D5   276.1 -> 140	
Norfentanyl	233.2 -> 84.2	7/17/2018 11:40 AM				233.2 -> 55.3				Norfentanyl-D5		238.2 -> 84.2
Norhydrocodone	286.2 -> 199	7/17/2018 11:40 AM	5.103	334	Infinity	286.2 -> 171	Infinity	116	10)			Norhydrocodone-D3
Noroxycodone	302.1 -> 284	7/17/2018 11:40 AM				302.1 -> 186				Noroxycodone-D3	Noroxycodone-D3 305.2 -> 287	
O-desmethyl-tramadol	250.2 -> 58.3	7/17/2018 11:40 AM				250.2 -> 42.3			· Iwwwww	O-desmethyl-tramadol	O-desmethyl-tramadol 256.2 -> 64.3	adol
Oxazepam	287.1 -> 240	7/17/2018 11:40 AM				287.1 -> 268				Oxazepam-D5		
Oxycodone	316.2 -> 298	7/17/2018 11:40 AM				316.2 -> 241			1	Oxycodone-D6	Oxycodone-D6 322.2 -> 304	
Oxymorphone	302.1 -> 284	7/17/2018 11:40 AM				302.1 -> 227			ļ	Oxymorphone-D3	Oxymorphone-D3 305.2 -> 287	305.2 ->



Compound Method	nod	p1 external control	p1 exte	ernal contro	ol Resul	p1 external control Resul Qualifier 1 M	Qualifier 1 Results	Results	ISTD Method	ď	ISTD Results	Results
Name	Transition	Acq. Date-Time	끅	RT Resp.	N/S	Transition	S/N	Area	Name	Transition	리	Resp.
Phentermine	150.1 -> 65.2	7/17/2018 11:40 AM	5.153	27180	1.99	<b>1.99</b> 150.1 -> 133			Phentermine-D5	155.2 -> 96.2	5.213	418326
Promethazine	285.1 -> 86.2	7/17/2018 11:40 AM				285.1 -> 71.3			Promethazine-D3	288.2 -> 89.2	6.691	27958
Quetiapine	384.2 -> 253	384.2 -> 253 7/17/2018 11:40 AM				384.2 -> 221			Quetiapine-D8	392.2 -> 226	6.699	409371
Sertraline	306.1 -> 158	306.1 -> 158 7/17/2018 11:40 AM	6.749	6.749 663353	Infinity	Infinity 306.1 -> 275	112578	6691	6691 Sertraline-D3	309.1 -> 275 6.749		349079
Temazepam	301.1 -> 255	301.1 -> 255 7/17/2018 11:40 AM				301.1 -> 283			Temazepam-D5	306.1 -> 260   6.527	6.527	496313
Tramadol	264.2 -> 58.3	264.2 -> 58.3 7/17/2018 11:40 AM				264.2 -> 43.3			Tramadol-13C-D3	268.2 -> 58.3	5.594	14463
Trazodone	372.2 -> 176	372.2 -> 176 7/17/2018 11:40 AM				372.2 -> 148			Trazodone-D6	378.2 -> 182	6.863	12903
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3   7/17/2018 11:40 AM				278.2 -> 260			Venlafaxine-D6	284.2 -> 64.3	5.919	14053
Zolpidem	308.2 -> 235	308.2 -> 235 7/17/2018 11:40 AM	*********			308.2 -> 263		***************************************	Zolpidem-D6	314.2 -> 235   6.422   14127.	6.422	14127



23 301339	6.423	393.1 -> 244	12261 Zopiclone-D4	12261	37.08	312.24 389.1 -> 216	21209	6.423	7/17/2018 11:11	389.1 -> 244	Zopiclone
		310.2 -> 240	Zaleplon-D4	53471	376.34	506.10 306.1 -> 264	73276	6.227	7/17/2018 11:11	306.1 -> 236	Zalepion
861032	. 5.568	225.2 -> 107	Tapentadol-D3	57639	32.35	Infinity 222.2 -> 121	148559	5.569	7/17/2018 11:11	222.2 -> 107	Tapentadol
02 341790	4.702	169.1 -> 151	Pseudoephedrine-D3	1202	60.37	409.11 166.1 -> 133	606121	4.723	7/17/2018 11:11	166.1 -> 148	Pseudoephedrine
12 19190	6.012	263.2 -> 192	3550 Phenytoin-D10	3550	15.47	Infinity 253.1 -> 182	3437	6.033	7/17/2018 11:11	253.1 -> 104	Phenytoin
54 1095534	6.054	249.2 -> 86.2	1505 Phencydlidine-D5	1505	Infinity	208.90 244.2 -> 91.1	182797	6.054	7/17/2018 11:11	244.2 -> 86.2	Phencyclidine
21677	6.506	353.0 -> 183	Phenazepam-D4	37179	1410.02	5420.15 349.0 -> 183	55704	6.506	7/17/2018 11:11	349.0 -> 206	Phenazepam
39 420088	6.539	267.2 -> 233	Nortriptyline-D3	90563	Infinity	Infinity 264.2 -> 233	109951	6.540	7/17/2018 11:11	264.2 -> 91.2	Nortriptyline
0 226398	5.700	291.2 -> 138	14450 7-aminoflunitrazepam-D7	14450	26.60	592.89 284.1 -> 93.2	38364	5.721	7/17/2018 11:11	284.1 -> 135	7-Aminoflunitrazepam
)8 283665	5.708	238.2 -> 164	52728 Normeperidine-D4	52728	652.22	Infinity 234.1 -> 160	77371	5.731	7/17/2018 11:11	234.1 -> 42.3	Normeperidine
30 496607	6.630	330.1 -> 295	25278 Midazolam-D4	25278	146.77	12726 326.1 -> 249	28692	6.651	7/17/2018 11:11	326.1 -> 223	Midazolam
385816	. 5.931	252.2 -> 224	Meperidine-D4	77554	140.63	Infinity 234.2 -> 56.3	312253	5.751	7/17/2018 11:11	234.2 -> 84.2	Methylphenidate
31 385816	5.931	252.2 -> 224	Meperidine-D4	36615	73.80	44.06 248.2 -> 174	67143	5.952	7/17/2018 11:11	248.2 -> 220	Meperidine
)5 49387	5.205	200.2 -> 166	50259 MDMA-D6	50259	Infinity	Infinity 194.1 -> 105	74487	5.205	7/17/2018 11:11	194.1 -> 163	MDMA
15 544946	5.345	214.2 -> 166	76376 MDEA-D6	76376	65.30	818.72 208.1 -> 105	92556	5.366	7/17/2018 11:11	208.1 -> 163	MDEA
34 256653	5.064	185.1 -> 168	33491 MDA-D5	33491	Infinity	Infinity 180.1 -> 105	39964	5.085	7/17/2018 11:11	180.1 -> 163	MDA
77 627634	6.677	281.2 -> 91.2	59428 Amitriptyline-D3	59428	Infinity	Infinity 278.2 -> 117	180496	6.699	7/17/2018 11:11	278.2 -> 91.2	Maprotiline
27 1255694	6.927	392.2 -> 238	Sufentanil-D5	43593	Infinity	Infinity 205.1 -> 178	55695	5.570	7/17/2018 11:11	205.1 -> 91.2	Levamisole
16 1408153	6.616	284.2 -> 61.3	Imipramine-D3	2544	Infinity	167.93 281.2 -> 58.3	443314	6.637	7/17/2018 11:11	281.2 -> 86.2	Imipramine
23 301339	6.423	393.1 -> 244	46607 Zopiclone-D4	46607	17201	1349.51 388.2 -> 317	189261	6.606	7/17/2018 11:11	388.2 -> 315	Flurazepam
29 13661	6.429	321.1 -> 245	22124 Flunitrazepam-D7	22124	7416.56	248.04 314.1 -> 239	58128	6.450	7/17/2018 11:11	314.1 -> 268	Flunitrazepam
338317	6.391	300.1 -> 272	Estazolam-D5	55823	365.72	588.72 295.1 -> 205	61148	6.413	7/17/2018 11:11	295.1 -> 267	Estazolam
94 809920	6.394	283.2 -> 107	Doxepin-D3	49494	Infinity	175.71 280.2 -> 77.2	139340	6.415	7/17/2018 11:11	280.2 -> 107	Doxepin
99 1629640	6.499	270.2 -> 75.3	Desipramine-D3	1586	Infinity	Infinity   267.2 -> 44.3	320082	6.499	7/17/2018 11:11	267.2 -> 72.3	Desipramine
27 1255694	. 6.927	392.2 -> 238	26911 Sufentanil-D5	26911	415.08	154.63 387.2 -> 111	30214	6.948	7/17/2018 11:11	387.2 -> 238	Sufentanil
391218	. 6.593	305.1 -> 286	20958 Chlordiazepoxide-D5	20958	63.47	191.24 300.1 -> 282	38928	6.613	7/17/2018 11:11	300.1 -> 227	Chlordiazepoxide
36 1473642	. 6.136	243.1 -> 200		2424	Infinity	253.33 237.1 -> 194	29663	6.137	7/17/2018 11:11	237.1 -> 193	Carbamazepine
57 513217	4.957	224.2 -> 84.2	Acetylnorfentanyl-D5	2637	31.96	59.46 219.1 -> 56.3	8754	4.978	7/17/2018 11:11	219.1 -> 84.2	Acetylnorfentanyl
77 627634	6.677	281.2 -> 91.2		96211	Infinity	Infinity   278.2 -> 105	180496	6.699	7/17/2018 11:11	278.2 -> 91.2	Amitriptyline
6 465859	. 6.466	346.1 -> 328	alpha-hydroxymidazolam	49522	22600	Infinity   342.1 -> 203	80123	6.467	7/17/2018 11:11	342.1 -> 324	alpha-hydroxymidazol
37 2167650	6.387	328.2 -> 105	Acetylfentanyl-D5	32102	44.49	100.80   323.2 -> 105	20625	6.408	7/17/2018 11:11	323.2 -> 188	Acetylfentanyl
Resp.	곱	Transition	Name	Area	S/N	S/N Transition	Resp.	RT	Acq. Date-Time	Transition	Name
ISTD Results	ISI	литерия фоспирательной размента предоставления предоставления по	ISTD Method	Results	Qualifier 1 Results	ults Qualifier 1 M	p2 cal 1-2b Results	p2 (	p2 cal 1-2b	nod	Compound Method
AND STATE OF STREET, S			2 100 100 100 100 100 100 100 100 100 10	A STREET OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	The state of the s	A STATE OF THE PROPERTY OF THE	The state of the s				



23 307185	393 1 -> 244 6 423	Zoniclone_D4		389 1 -> 216	•	,,,,,,,,		7/17/2018 11:30 AM	389.1 -> 244	Zopiclone
27 327578	310.2 -> 240   6.227	***************************************		306.1 -> 264				7/17/2018 11:30 AM	306.1 -> 236	Zaleplon
68 884474	225.2 -> 107   5.568	Tapentadol-D3		222.2 -> 121				7/17/2018 11:30 AM	222.2 -> 107	Tapentadol
02 358597	169.1 -> 151 4.702	Pseudoephedrine-D3		166.1 -> 133				7/17/2018 11:30 AM	166.1 -> 148	Pseudoephedrine
12 20175	263.2 -> 192   6.012	Phenytoin-D10		253.1 -> 182				7/17/2018 11:30 AM	253.1 -> 104	Phenytoin
54 12029	249.2 -> 86.2   6.054	Phencydlidine-D5		244.2 -> 91.1			***************************************	7/17/2018 11:30 AM	244.2 -> 86.2	Phencyclidine
06 27000	353.0 -> 183   6.506	4		349.0 -> 183				7/17/2018 11:30 AM	349.0 -> 206	Phenazepam
39 456328	267.2 -> 233 6.539	Nortriptyline-D3		264.2 -> 233				7/17/2018 11:30 AM	264.2 -> 91.2	Nortriptyline
00 266997	291.2 -> 138 5.700	7-aminoflunitrazepam-D7		284.1 -> 93.2	•••••			7/17/2018 11:30 AM	284.1 -> 135	7-Aminoflunitrazepam
299608	238.2 -> 164 5.729	Normeperidine-D4		234.1 -> 160				7/17/2018 11:30 AM	234.1 -> 42.3	Normeperidine
30 540728	330.1 -> 295 6.630	Midazolam-D4		326.1 -> 249				7/17/2018 11:30 AM	326.1 -> 223	Midazolam
31 423985	252.2 -> 224 5.931	Meperidine-D4		234.2 -> 56.3				7/17/2018 11:30 AM	234.2 -> 84.2	Methylphenidate
31 423985	252.2 -> 224 5.931	Meperidine-D4		248.2 -> 174				7/17/2018 11:30 AM	248.2 -> 220	Meperidine
05 48710	200.2 -> 166   5.205	MDMA-D6		194.1 -> 105				7/17/2018 11:30 AM	194.1 -> 163	MDMA
45 560594	214.2 -> 166 5.345	MDEA-D6		208.1 -> 105				7/17/2018 11:30 AM	208.1 -> 163	MDEA
64 268663	185.1 -> 168 5.064	MDA-D5		180.1 -> 105				7/17/2018 11:30 AM	180.1 -> 163	MDA
97 653884	281.2 -> 91.2   6.697	Amitriptyline-D3		278.2 -> 117				7/17/2018 11:30 AM	278.2 -> 91.2	Maprotiline
27 13230	392.2 -> 238 6.927			205.1 -> 178			annanton	7/17/2018 11:30 AM	205.1 -> 91.2	Levamisole
36 14627	284.2 -> 61.3   6.636	Imipramine-D3		281.2 -> 58.3				7/17/2018 11:30 AM	281.2 -> 86.2	Imipramine
23 307185	393.1 -> 244   6.423	Zopiclone-D4		388.2 -> 317				7/17/2018 11:30 AM	388.2 -> 315	Flurazepam
29 16140	321.1 -> 245 6.429	Flunitrazepam-D7		314.1 -> 239				7/17/2018 11:30 AM	314.1 -> 268	Flunitrazepam
91 386848	300.1 -> 272 6.391	Estazolam-D5		295.1 -> 205				7/17/2018 11:30 AM	295.1 -> 267	Estazolam
94 842888	283.2 -> 107   6.394	Doxepin-D3		280.2 -> 77.2			********	7/17/2018 11:30 AM	280.2 -> 107	Doxepin
99 17303	270.2 -> 75.3   6.499	Desipramine-D3		267.2 -> 44.3			********	7/17/2018 11:30 AM	267.2 -> 72.3	Desipramine
27 13230	392.2 -> 238 6.927	Sufentanil-D5		387.2 -> 111				7/17/2018 11:30 AM	387.2 -> 238	Sufentanil
93 400997	305.1 -> 286 6.593	Chlordiazepoxide-D5 :		300.1 -> 282				7/17/2018 11:30 AM	300.1 -> 227	Chlordiazepoxide
36 14919	243.1 -> 200 6.136	Carbamazepine-13C6		237.1 -> 194			,,,,,,,,,	7/17/2018 11:30 AM	237.1 -> 193	Carbamazepine
57 553679	224.2 -> 84.2   4.957	Acetylnorfentanyl-D5 2		219.1 -> 56.3				7/17/2018 11:30 AM	219.1 -> 84.2	Acetylnorfentanyl
97 653884	281.2 -> 91.2   6.697	Amitriptyline-D3		278.2 -> 105				7/17/2018 11:30 AM	278.2 -> 91.2	Amitriptyline
66 502728	346.1 -> 328 6.466	dazolam		342.1 -> 203				7/17/2018 11:30 AM	342.1 -> 324	alpha-hydroxymidazol
07 22269	328.2 -> 105 6.407	Acetylfentanyl-D5		323.2 -> 105				7/17/2018 11:30 AM	323.2 -> 188	Acetylfentanyl
Resp.	Transition RT	Name	S/N Area	Transition	S/N	Resp.	P.T	Acq. Date-Time	Transition	Name
ISTU Results	SI	ISTD Method	Qualifier	Qualifier 1 M	trol Results	p2 negative control Results	₽.	p2 negative control	por	Compound Method



6.423	393.1 -> 244	Zoniclone-D4			200 1 \ 216	•			7/17/2018 11·50 A	389 1 -> 244	Zoniclone
6.227	310.2 -> 240	Zaleplon-D4			306.1 -> 264			•	7/17/2018 11:50 A	306.1 -> 236	Zaleplon
5.568	225.2 -> 107	Tapentadol-D3			222.2 -> 121			•	7/17/2018 11:50 A	222.2 -> 107	Tapentadol
4.723 463793	169.1 -> 151	Pseudoephedrine-D3	•••••		166.1 -> 133			•	7/17/2018 11:50 A	166.1 -> 148	Pseudoephedrine
6.032	263.2 -> 192	Phenytoin-D10			253.1 -> 182				7/17/2018 11:50 A	253.1 -> 104	Phenytoin
6.054	249.2 -> 86.2	Phencydlidine-D5	**********		244.2 -> 91.1			•	7/17/2018 11:50 A	244.2 -> 86.2	Phencyclidine
6.506	353.0 -> 183	Phenazepam-D4			349.0 -> 183			•	7/17/2018 11:50 A	349.0 -> 206	Phenazepam
6.539 450154	267.2 -> 233	Nortriptyline-D3	. 8653	1404	3 264.2 -> 233	7 1344.83	986137	. 6.540	7/17/2018 11:50 A	264.2 -> 91.2	Nortriptyline
5.700 275248	291.2 -> 138	7-aminoflunitrazepam-D7			284.1 -> 93.2		********	•••••	7/17/2018 11:50 A	284.1 -> 135	7-Aminoflunitrazepam
5.729 266372	238.2 -> 164	Normeperidine-D4			234.1 -> 160			•	7/17/2018 11:50 A	234.1 -> 42.3	Normeperidine
6.630 500119	330.1 -> 295	Midazolam-D4			326.1 -> 249			•	7/17/2018 11:50 A	326.1 -> 223	Midazolam
5.931 418466	252.2 -> 224	Meperidine-D4			234.2 -> 56.3			·	7/17/2018 11:50 A	234.2 -> 84.2	Methylphenidate
5.931 418466	252.2 -> 224	Meperidine-D4			248.2 -> 174				7/17/2018 11:50 A	248.2 -> 220	Meperidine
5.205	200.2 -> 166	MDMA-D6			194.1 -> 105				7/17/2018 11:50 A	194.1 -> 163	MDMA
5.366 509185	214.2 -> 166	MDEA-D6			208.1 -> 105				7/17/2018 11:50 A	208.1 -> 163	MDEA
5.064 249858	185.1 -> 168	MDA-D5			180.1 -> 105				7/17/2018 11:50 A	180.1 -> 163	MDA
6.880 31301	281.2 -> 91.2	Amitriptyline-D3			) 278.2 -> 117	9 5.80	8699	. 6.760	7/17/2018 11:50 A	278.2 -> 91.2	Maprotiline
6.927 12878.	392.2 -> 238	Sufentanil-D5			205.1 -> 178				7/17/2018 11:50 A	205.1 -> 91.2	Levamisole
6.636 14463	284.2 -> 61.3	Imipramine-D3			281.2 -> 58.3			-	7/17/2018 11:50 A	281.2 -> 86.2	Imipramine
6.423 220461	393.1 -> 244	Zopiclone-D4			388.2 -> 317			-	7/17/2018 11:50 A	388.2 -> 315	Flurazepam
6.429	321.1 -> 245	Flunitrazepam-D7			314.1 -> 239				7/17/2018 11:50 A	314.1 -> 268	Flunitrazepam
6.411 365783	300.1 -> 272	Estazolam-D5			295.1 -> 205			•	7/17/2018 11:50 A	295.1 -> 267	Estazolam
6.414 819694	283.2 -> 107	Doxepin-D3			280.2 -> 77.2				7/17/2018 11:50 A	280.2 -> 107	Doxepin
6.499 16701	270.2 -> 75.3	Desipramine-D3			267.2 -> 44.3			·	7/17/2018 11:50 A	267.2 -> 72.3	Desipramine
6.927 12878	392.2 -> 238	Sufentanil-D5			387.2 -> 111				7/17/2018 11:50 A	387.2 -> 238	Sufentanil
6.593 380457	305.1 -> 286	Chlordiazepoxide-D5			300.1 -> 282				7/17/2018 11:50 A	300.1 -> 227	Chlordiazepoxide
6.136 14128.	243.1 -> 200	Carbamazepine-13C6			237.1 -> 194				7/17/2018 11:50 A	237.1 -> 193	Carbamazepine
4.957 505702	224.2 -> 84.2	Acetylnorfentanyl-D5			219.1 -> 56.3				7/17/2018 11:50 A	219.1 -> 84.2	Acetylnorfentanyl
6.880 31301	281.2 -> 91.2	Amitriptyline-D3			278.2 -> 105				7/17/2018 11:50 A	278.2 -> 91.2	Amitriptyline
6.466 484011	346.1 -> 328	alpha-hydroxymidazolam			342.1 -> 203				7/17/2018 11:50 A	342.1 -> 324	alpha-hydroxymidazol
6.407 21345	328.2 -> 105	Acetylfentanyl-D5			323.2 -> 105				7/17/2018 11:50 A	323.2 -> 188	Acetylfentanyl
RT Resp.	Transition	Name	Area	S/N	Transition	S/N	Resp.	RT	Acq. Date-Time	Transition	Name
io i o i resulta		IOI D Menion	+ 1 Veau	Contract 1	Quantitation in the	be executed control recome		Ti O		C	Compound monogo



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

Extraction Date:	7-17-18	Analyst: Anc Nord	

Plate lot#: 0515037 Plate Expiration: 9/28/2018

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: 17J20718 Column: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)

**LCMS-QQQ ID**: 62340

### **Pre-Analytic:**

- 🔯 1. 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.
- ☑ 3. Create worklist:

### **Analytic:**

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- Pipette 1000 μL blood (calibrated pipette) Pipette ID: k52558 in wells of analytical (standards) plate.
  - Blank blood for locations containing standards/QCs and internal standards
  - Sample blood for locations containing only internal standards
- 2 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 66759
- Σ 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.
- \( \Bar{\text{\subset}} \) 6. Transfer 800 μL 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: 66792
- ☑ 8. Wait 5 minutes.
- ☑ 9. Add **2.25 mL MTBE** (add in 3 increments of 750uL).
- △ 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).
- [Δ] 16. Reconstitute in 100μL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- Worklist path: 0717/8 AM 25-26 Batch Name: Com 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.
- □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
   □
- 🖾 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

**COMMENTS:** 

8

Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

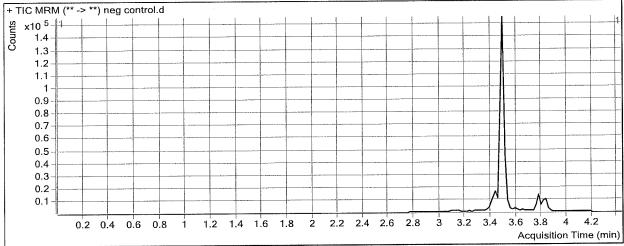
Analysis Time7/18/2018 8:03 AMAnalyst NameISP ToxReport Time7/19/2018 9:19 AMReporter NameISP ToxLast Calib Update7/18/2018 8:03 AMBatch StateProcessed

**Analysis Info** 

Acq Time2018-07-17 18:10Data Fileneg control.dSample TypeSampleSample Nameneg controlDilution1Acq MethodScreen THC 8-2017.m

Dilution1Acq MethodPositionP1-A2Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen





Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

Analysis Time7/18/2018 8:03 AMAnalyst NameISP ToxReport Time7/19/2018 9:19 AMReporter NameISP ToxLast Calib Update7/18/2018 8:03 AMBatch StateProcessed

**Analysis Info** 

 Acq Time
 2018-07-17 17:57
 Data File
 QC 10 ng.d

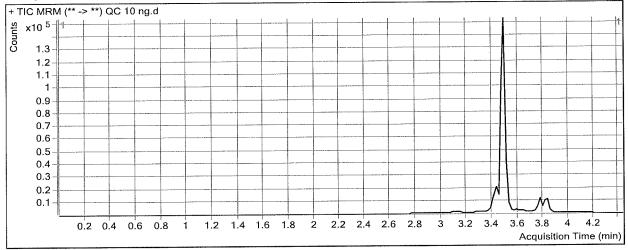
 Sample Type
 QC
 Sample Name
 QC 10 ng

Dilution 1 Acq Method Screen THC 8-2017.m

Position P1-H1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

### **Sample Chromatogram**



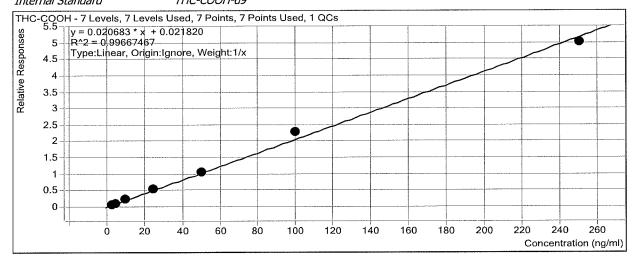
Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.426	11563	42920	0.2694	11.9700
THC-OH	3.493	33205	316953	0.1048	9.9979
THC	3.840	2283	20437	0.1117	9.5555
THC	3.840	2283	20437	0.111/	2,7777

A

# ISP Forensics Calibration Curve Report

Batch Data Path Last Calib Update Target Compound
Internal Standard

THC-COOH
THC-COOH-d9

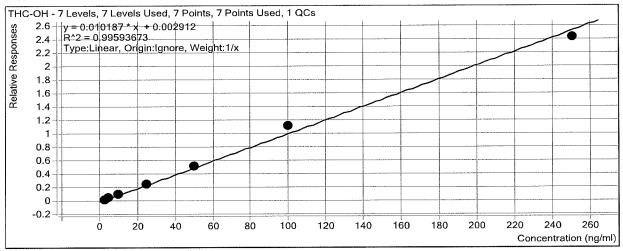


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	$\square$	3	3.0	98.4
cal 2 - 5ng	2	$\square$	5	4.5	90.1
cal 3 - 10ng	3	$\square$	10	10.7	107.3
QC 10 ng	3	$\square$	10	12.0	119.7
cal 4 - 25ng	4	$\square$	25	24.8	99.1
cal 5 - 50ng	5	$\square$	50	49.7	99.5
cal 6 - 100ng	6	☑	100	109.1	109.1
cal 7 - 250ng	7	$\square$	250	241.2	96.5



# ISP Forensics Calibration Curve Report

Batch Data Path Last Calib Update Target CompoundTHC-OHInternal StandardTHC-OH-d3



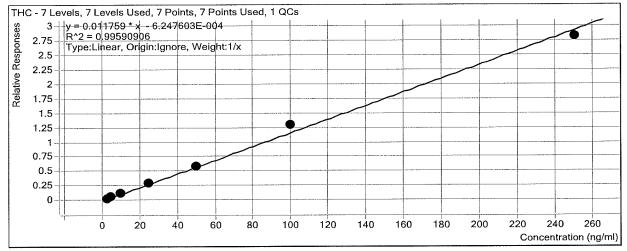
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	☑	3	2.8	92.6
cal 2 - 5ng	2	$\square$	5	4.7	94.8
cal 3 - 10ng	3	$\square$	10	10.3	103.0
QC 10 ng	3		10	10.0	100.0
cal 4 - 25ng	4	$\square$	25	25.3	101.1
cal 5 - 50ng	5	$\square$	50	51.8	103.5
cal 6 - 100ng	6	$\square$	100	109.5	109.5
cal 7 - 250ng	7	☑	250	238.6	95.5



### **ISP Forensics Calibration Curve Report**

**Batch Data Path Last Calib Update**  D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin **Analyst Name** ISP TOX 7/18/2018 8:03 AM





Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 3ng	1	$\square$	3	2.9	96.3
cal 2 - 5ng	2	$\square$	5	4.8	96.8
cal 3 - 10ng	3	$\square$	10	10.1	100.5
QC 10 ng	3	$\square$	10	9.6	95.6
cal 4 - 25ng	4	☑	25	24.8	99.3
cal 5 - 50ng	5	$\square$	50	50.4	100.8
cal 6 - 100ng	6	$\square$	100	110.4	110.4
cal 7 - 250ng	7	$\square$	250	239.6	95.8



**Batch Data Path** 

D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

Analysis Time

7/18/2018 8:03 AM

Analyst Name ISP Tox

Report Time Last Calib Update 7/19/2018 9:19 AM 7/18/2018 8:03 AM **Reporter Name** ISP Tox **Batch State** Processed

**Analysis Info** 

Acq Time Sample Type 2018-07-17 17:04

Data File Sample Name cal 1 - 3ng.d cal 1 - 3ng

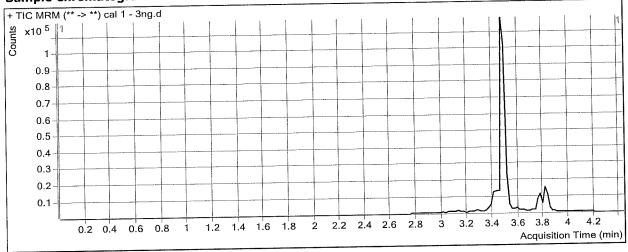
Dilution

Calibration 1

Acq Method Sample Info Screen THC 8-2017.m

Position Inj Vol pi-a1 -1 Sample Info

AM 26 Cannabinoid screen



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
	3.426	3145	37962	0.0829	2.9508
THC-COOH	<del>-</del>	_	284554	0.0312	2.7776
THC-OH	3.493	8880			2.8904
THC	3.820	1022	30622	0.0334	2,8904



Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 7/18/2018 8:03 AM
 Analyst Name
 ISP Tox

 Report Time
 7/19/2018 9:19 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 7/18/2018 8:03 AM
 Batch State
 Processed

**Analysis Info** 

 Acq Time
 2018-07-17 17:11
 Data File
 cal 2 - 5ng.d

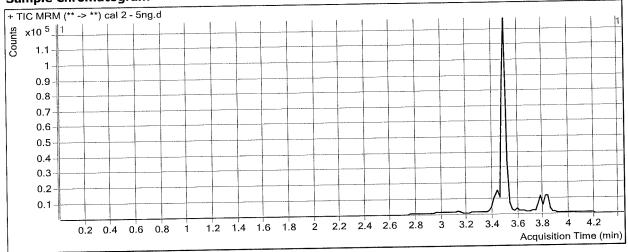
 Sample Type
 Calibration
 Sample Name
 cal 2 - 5ng

Dilution 1 Acq Method Screen THC 8-2017.m

Position P1-B1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

### Sample Chromatogram



Results				_	
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3,426	4157	36137	0.1150	4.5073
		14278	278747	0.0512	4.7422
THC-OH	3.493	<u>.</u>		0.0563	4.8392
THC	3.840	1336	23738	0.0303	110322

X

Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

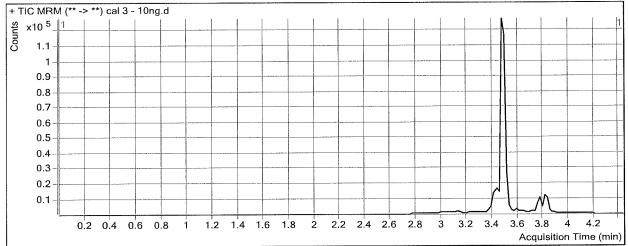
Analysis Time7/18/2018 8:03 AMAnalyst NameISP ToxReport Time7/19/2018 9:19 AMReporter NameISP ToxLast Calib Update7/18/2018 8:03 AMBatch StateProcessed

**Analysis Info** 

Acq Time2018-07-17 17:17Data Filecal 3 - 10ng.dSample TypeCalibrationSample Namecal 3 - 10ngDilution1Acq MethodScreen THC 8-2017.m

Position p1-c1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.426	9149	37521	0.2438	10.7343
THC-OH	3.493	31312	290460	0.1078	10.2962
THC	3.820	2767	23523	0.1176	10.0549

Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 7/18/2018 8:03 AM
 Analyst Name
 ISP Tox

 Report Time
 7/19/2018 9:19 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 7/18/2018 8:03 AM
 Batch State
 Processed

**Analysis Info** 

 Acq Time
 2018-07-17 17:24
 Data File
 cal 4 - 25ng.d

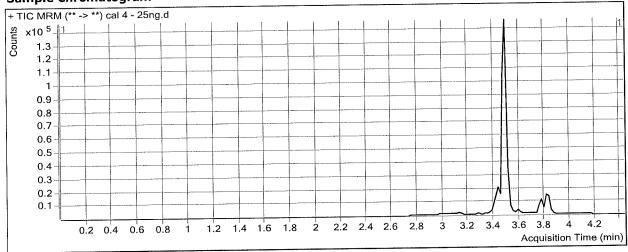
 Sample Type
 Calibration
 Sample Name
 cal 4 - 25ng

Dilution 1 Acq Method Screen THC 8-2017.m

Position P1-D1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

### Sample Chromatogram



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.426	17440	32650	0.5342	24.7710
THC-OH	3.493	69610	267298	0.2604	25.2781
	3.820	7271	24969	0.2912	24.8182
THC	3.020	7272			

A

Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 7/18/2018 8:03 AM
 Analyst Name
 ISP Tox

 Report Time
 7/19/2018 9:19 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 7/18/2018 8:03 AM
 Batch State
 Processed

**Analysis Info** 

 Acq Time
 2018-07-17 17:31
 Data File
 cal 5 - 50ng.d

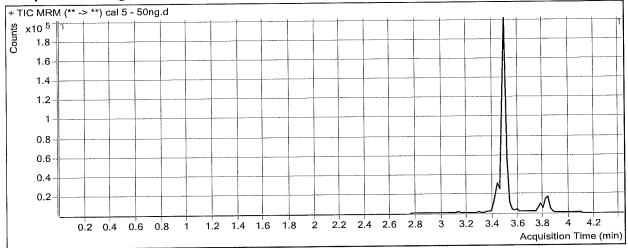
 Sample Type
 Calibration
 Sample Name
 cal 5 - 50ng

Dilution 1 Acq Method Screen THC 8-2017.m

Position p1-e1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

#### **Sample Chromatogram**



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.426	37139	35348	1.0507	49.7428
THC-OH	3.493	147685	278514	0.5303	51.7667
THC	3.840	11984	20245	0.5920	50.3961



Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

 Analysis Time
 7/18/2018 8:03 AM
 Analyst Name
 ISP Tox

 Report Time
 7/19/2018 9:19 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 7/18/2018 8:03 AM
 Batch State
 Processed

**Analysis Info** 

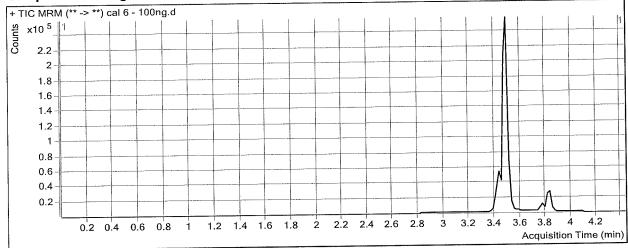
 Acq Time
 2018-07-17 17:37
 Data File
 cal 6 - 100ng.d

 Sample Type
 Calibration
 Sample Name
 cal 6 - 100ng

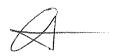
 Dilution
 1
 Acq Method
 Screen THC 8-2017.m

Position P1-F1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3,426	81778	35891	2.2785	109.1075
THC-OH	3.493	313659	280437	1.1185	109.5068
		30332	23371	1.2978	110.4243
THC	3.840	JUJJ2	233/I		



Batch Data Path D:\2018 Data\071718 AM 25-26\QuantResults\cann screen.batch.bin

Analysis Time7/18/2018 8:03 AMAnalyst NameISP ToxReport Time7/19/2018 9:19 AMReporter NameISP ToxLast Calib Update7/18/2018 8:03 AMBatch StateProcessed

**Analysis Info** 

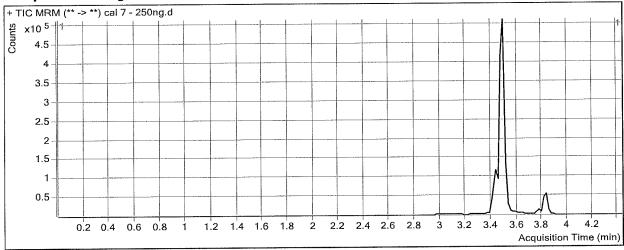
 Acq Time
 2018-07-17 17:44
 Data File
 cal 7 - 250ng.d

 Sample Type
 Calibration
 Sample Name
 cal 7 - 250ng

 Dilution
 1
 Acq Method
 Screen THC 8-2017.m

Position p1-g1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.426	206928	41300	5.0104	241.1863
THC-OH	3,493	821397	337485	2.4339	238.6324
THC	3.840	81982	29108	2.8165	239.5769

