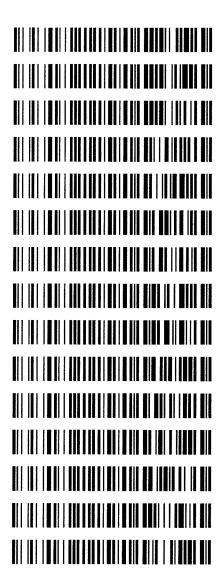
Worklist: 2762

<u>LAB_CASE</u> C2018-2001	<u>ITEM</u> 1	TASK ID 128981	DESCRIPTION AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2001	2	130141	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
C2018-2001	3	130139	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2060	1	128604	AM 25/AM 26 Blood MultiDrug/THC Screen by L0
C2018-2076	2	128814	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2089	1	128955	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2090	1	130605	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2098	1	129152	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2101	1	129194	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2103	2	129202	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2113	1	129298	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo
C2018-2135	1	129484	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
C2018-2163	1	129879	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
C2018-2172	1	129931	AM 25/AM 26 Blood MultiDrug/THC Screen by LC
C2018-2182	1	130369	AM 25/AM 26 Blood MultiDrug/THC Screen by Lo



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

Extrac	tion Date: 10/30/2018 Analyst: Britany Wylie
Plate 1	ot#: 05152007 Plate Expiration: 10/18/2018
Mobil	e phase A: 10mM Amm Form Mobile phase B: 0.1% Formic Acid in MeOH
	5M Ammonium Hydroxide Ethyl Acetate LC Methanol
	Blood Lot : 18G207D7 Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
LCMS	S-QQQ ID : 62340
Pre-A	Analytic:
$\frac{2}{2}$ 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.
	Create worklist: Data Path Name: 103018 0m 25-26 103018
	BW
Analy	
<u>/</u>] 1.	Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
Z 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.
X 05.	Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
5 06.	Transfer 300μL of blood+base mixture to corresponding wells of SLE+ plate.
5 07.	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
`IZI 8.	Wait 5 minutes.
2 9.	Add 900uL ethyl acetate.
X 0.	Wait 5 minutes.
9 11.	Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
	Add 900uL ethyl acetate.
′⋝ Р13.	Wait 5 minutes.
Þ 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
16.	Reconstitute in $100\mu L$ 100% LC MeOH and heat seal plate with foil. Place in autosampler and run worklist.
Post-A	<u>Analytic</u>
) 1.	Open quantitation software and create a new quantitation batch. Batch Name: Worklist path:
™ a 2	Batch Name: Worklist path: 1030/8 AH 25 - 2.6 Make necessary changes to integration limits
2. 2. 3.	Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak
ger 3.	symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/3 the response of administrative control.
5 4.	Did all QCs pass for each analyte? Y/N
5 .	Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports
COMM	IENTS: nor hydrocodone of quentermine - not evaluated



Request for Departure from an Analytical Method

Date of Request 10/22/18

Analytical Method AM 25 multidrug screen

Deviation

The expiration date listed for the current batch of Cayman ToxBox extraction plates (Batch # 0515207) is October 18, 2018. I am issuing a deviation to allow for the use of the remaining plates. The controls will be used to evaluate if the plate is working as intended.

The deviation will remain in effect until December 18, 2018. The allowance of expired plates will be addressed in the next method revision.

alera Strum

Date: 10/22/2018 Celena Shrum

Toxicology Program Discipline Leader



working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline Toxicology AM method 25 external prep information

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

by Amn

neg blood lot 17J20718

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



Compound Method	poi	p1 negative	þ	p1 negative Results	Results	Ö	Qualifier 1 M	Qualifier 1 Re	Re	ISTD Method	STDF	STD Results	
Name	Transition	Acq. Date-Time	RT	Resp.	S/N	ΙW	Transition	S/N Area	a MI	Name	RT	Resp.	
6-MAM	328.2 -> 165	10/30/2018 2:14 PM				328	328.2 -> 211		L	6-MAM-D6	5.319	31013	
7-aminoclonazepam	286.1 -> 121	10/30/2018 2:14 PM			Amount.	286	286.1 -> 222		<u>L</u>	7-Aminoclonazepam-D4	5.590	78369	٠
Buprenorphine	468.3 -> 55.1	10/30/2018 2:14 PM				468	468.3 -> 101		<u>L</u>	Buprenorphine -D4	7.283	1798	
Benzoylecgonine	290.1 -> 168				llama.	29(290.1 -> 105		L	Benzoylecgonine-D8	5.365	4616	
Metoprolol	268.2 -> 116				<u> </u>	768	268.2 -> 56.3		<u></u>	Noroxycodone-D3	5.017	72513	
a-hydroxyalprazolam	325.1 -> 297				ilama.	32	325.1 -> 215		<u>L</u>	a-hydroxyalprazolam-D5	6.358	26229	
alpha-PVP	232.2 -> 91.0	—-I:			A	_ 23,	232.2 -> 77.1		<u> </u>	alpha-PVP-d8	5.863	1520	
Alprazolam	309.1 -> 281	10/30/2018 2:14 PM			James,	300	309.1 -> 205			Alprazolam-D5	6.464	1281	
Amphetamine	136.1 -> 91.1	10/30/2018 2:14 PM	5.012	22761	11.43	13(136.1 -> 119		L	Amphetamine-D11	4.911	1071	
Cocaine	304.2 -> 182	10/30/2018 2:14 PM			Japan.	307	304.2 -> 105		<u></u>	Cocaine-D3	5.833	2953	
Bupropion	240.1 -> 184	10/30/2018 2:14 PM			L	7 240.1	0.1 -> 131		<u>L</u>	Bupropion-D9	6.108	1805	
Carisoprodol	261.2 -> 176	10/30/2018 2:14 PM			October 1	_ 26.	261.2 -> 55.3		1	Carisoprodol-D7	6.126	2341	
Citalopram	325.2 -> 109	10/30/2018 2:14 PM			Bosses	32!	325.2 -> 262		<u>L</u>	Citalopram-D6	6.175	4460	
Clonazepam	316.1 -> 269	10/30/2018 2:14 PM			Joseph .	316	316.1 -> 213		<u>L</u>	Clonazepam-D4	6.299	16432	
Codeine	300.2 -> 215				James,	300	300.2 -> 165		<u>L</u>	Codeine-D6	5.261	22159	
Cyclobenzaprine	276.2 -> 214	10/30/2018 2:14 PM			Secret.	776	276.2 -> 231		<u>L</u>	Cyclobenzaprine-D3	6.530	1646	
Dextromethorphan	272.2 -> 171	10/30/2018 2:14 PM			House	72	272.2 -> 147		1	Dextromethorphan-D3	6.267	78836	
Dextrorphan	258.2 -> 157	10/30/2018 2:14 PM			Same.	258	258.2 -> 133		<u>L</u>	Dextrorphan-D3	5.575	1272	
Diazepam	285.1 -> 193	10/30/2018 2:14 PM			Zecono.	286	285.1 -> 153		<u>L</u>	Diazepam-D5	6.670	95962	
Dihydrocodeine	302.2 -> 198	10/30/2018 2:14 PM			beens.	305	302.2 -> 128		<u></u>	Dihydrocodeine-D6	5.036	70720	
Diphenhydramine	256.2 -> 167	10/30/2018 2:14 PM			J.	256	256.2 -> 152		<u>L</u>	Diphenhydramine-D3	6.188	5990	
Doxylamine	271.2 -> 182	10/30/2018 2:14 PM			3eacan.	_ 27	271.2 -> 167		L	Doxylamine-D5	5.818	4863	
EDDP	279.2 -> 235				Assess.	72	279.2 -> 250		<u>L</u>	EDDP-D3	6.143	23357	
Fentanyl	337.2 -> 105				Access.	33,	337.2 -> 188		<u>L</u>	Fentanyl-D5	6.561	5947	
Fluoxetine	310.1 -> 44.3	10/30/2018 2:14 PM			l	31(310.1 -> 148		<u>L</u>	Fluoxetine-D6	6.361	5788	
Hydrocodone	300.2 -> 198	10/30/2018 2:14 PM			dame.	_ 300	300.2 -> 128		L.	Hydrocodone-D6	5.505	1175	
Hydromorphone	286.2 -> 184	10/30/2018 2:14 PM			James.	_ 28(286.2 -> 157		L	Hydromorphone-D6	4.778	50443	
Ketamine	238.1 -> 125	10/30/2018 2:14 PM			3	238	238.1 -> 220		<u>L</u>	Ketamine-D4	6.108	2574	
Mirtazapine	266.2 -> 195	10/30/2018 2:14 PM			Bonnes.	797	266.2 -> 72.3		<u>L</u>	Tramadol-13C-D3	5.594	5566	
Mitragynine	399.2 -> 238	10/30/2018 2:14 PM			ilem.	36	399.2 -> 174		<u>.</u>	Tramadol-13C-D3	5.594	5566	
Meprobamate	219.1 -> 158				il-man.	21(219.1 -> 97.1		<u>L</u>	Meprobamate-D7	2.660	86247	
Methadone	310.2 -> 265				ilemen	31(310.2 -> 105			Methadone-D9	6.442	3369	
Methamphetamine	150.1 -> 91.1	-	5.132	18725	2.51	15(2.36 781		Methamphetamine-D11	5.092	2184	
Morphine	286.2 -> 201	-			teres I	786	286.2 -> 165		L.	Morphine-D6	4.497	2785	
Norbuprenorphine	414.3 -> 101					417	414.3 -> 57.3			Norbuprenorphine-D3	600.9	20547	
Nordiazepam	271.1 -> 140				[3	27	271.1 -> 208			Nordiazepam-D5	6.512	17563	
Nortentanyl	233.2 -> 84.2					23.	233.2 -> 55.3			Norfentanyl-D5	5.455	3924	
Normydrocodone	286.2 -> 199					284	286.2 -> 171	_	701000	Norhydrocodone-D3	5.102		not evaluated
Noroxycodone	302.1 -> 284					30,	302.1 -> 186			Noroxycodone-D3	5.017	72513	
O-desmethyl-tramadol	250.2 -> 58.3					25(250.2 -> 42.3	-		O-desmethyl-tramadol	5.047	5127	
Oxazepam	287.1 -> 240	1-				28,	287.1 -> 268			Oxazepam-D5	6.365	39549	
Oxycodone	316.2 -> 298				<u> </u>	316	316.2 -> 241			Oxycodone-D6	5.218	1500	
Oxymorphone	302.1 -> 284					305	302.1 -> 227		1	Oxymorphone-D3	4.471	1410	
Phentermine	150.1 -> 65.2	10/30/2018 2:14 PM			3	15(150.1 -> 133		L	Phentermine-D5	5.254	3144	
Promethazine	285.1 -> 86.2					286	285.1 -> 71.3	_		Promethazine-D3	6.650	9173	
Quetiapine	384.2 -> 253				I	384.2	4.2 -> 221			Quetiapine-D8	6.659	2420	
Sertraline	306.1 -> 158	10/30/2018 2:14 PM				306	306.1 -> 275			Sertraline-D3	6.688	1120	To account
Temazepam	301.1 -> 255	301.1 -> 255 10/30/2018 2:14 PM				301.1	1.1 -> 283	And the second s	7000h	Temazepam-D5	6.486	1584	分

								The state of the s				
Compound Method	pot	p1 negative	p1	negative	1 negative Results	Qualifier 1 M., Qualifier 1 Re.,	Qualifie	r 1 Re	ISTD Method	ISTDI	STD Results	
Name	Transition	Acq, Date-Time	RT	Resp.	N/S	MI Transition S/N Area MI	S/N A	rea MI		RT	RT Resp.	
Tramadol	264.2 -> 58.3 10/30/2018	10/30/2018 2:14 PM			Name of the Party	264.2 -> 43.3		i i	Tramadol-13C-D3	5 594	5566	
razodone	372.2 -> 176 10/30/2018	10/30/2018 2:14 PM				372.2 -> 148	-		Trazodona-DR	6 803		
Ventafaxine	278.2 -> 58.3 10/30/2018.2	10/30/2018 2:14 PM				78.2 -> 260			Venlafavine-D6	5 010		
Zolpidem	308.2 -> 235 10/30/2018 ;	10/30/2018 2:14 PM				308.2 -> 263			Zolpidem-D6	6.402	6853	

Compound Method	thod	p1 external control	p1 exter	xternal con	mal control Results	Qualifier 1 M	Qualifier	Qualifier 1 Results		ISTD Method	ISTD	ISTD Results	
Name	Transition	Acq. Date-Time	R	Resp.	N/S	MI Transition	N/S	Area	₹	Name	RT	Resp.	
6-MAM	328.2 -> 165	10/30/2018 2:33 PM				328.2 -> 211			9	6-MAM-D6	5.319	37917	
7-aminoclonazepam	286.1 -> 121					286.1 -> 222				7-Aminoclonazepam-D4	5.590	96778	
Buprenorphine	468.3 -> 55.1				-	468.3 -> 101			L	Buprenorphine -D4	7.303	221892	
Benzoylecgonine	290.1 -> 168	1-			.20018	290.1 -> 105				Benzoylecgonine-D8	5.365	4079	
Metoprolol	268.2 -> 116					Z68.2 -> 56.3			_	Noroxycodone-D3	5.017	81723	
a-hydroxyalprazolam	325.1 -> 297	-			1000Ab	325.1 -> 215			L	a-hydroxyalprazolam-D5	6.358	31585	
alpha-PVP	232.2 -> 91.0	10/30/2018 2:33 PM			constitute.	232.2 -> 77.1				alpha-PVP-d8	5.843	176576	
Alprazolam	309.1 -> 281					[] 309.1 -> 205			1	Alprazolam-D5	6.464	145183	
Amphetamine	136.1 -> 91.1	10/30/2018 2:33 PM	5.012	29842	29.27	136.1 -> 119			1 _	Amphetamine-D11	4.911	145668	
Cocaine	304.2 -> 182	10/30/2018 2:33 PM			200920	304.2 -> 105				Cocaine-D3	5.833	362326	
Bupropion	240.1 -> 184				-ECONTON	7 240.1 -> 131			E	Bupropion-D9	6.108	186911	
Carisoprodol	261.2 -> 176	10/30/2018 2:33 PM			20000000	[261.2 -> 55.3				Carisoprodol-D7	6.126	249595	
Citalopram	325.2 -> 109	10/30/2018 2:33 PM				[325.2 -> 262				Citalopram-D6	6.175	567415	
Clonazepam	316.1 -> 269				2000000	316.1 -> 213				Clonazepam-D4	6.299	20638	
Codeine	300.2 -> 215		5.569	0829	37.54	300.2 -> 165	89.05	18003		Codeine-D6	5.261	26099	
Cyclobenzaprine	276.2 -> 214	10/30/2018 2:33 PM				76.2 -> 231				Cyclobenzaprine-D3	6.530	186690	
Dextromethorphan	272.2 -> 171	10/30/2018 2:33 PM			NO.	272.2 -> 147				Dextromethorphan-D3	6.267	100515	
Dextrorphan	258.2 -> 157	10/30/2018 2:33 PM			STATE OF THE PARTY	258.2 -> 133				Dextrorphan-D3	5.575	163775	
Diazepam	285.1 -> 193	10/30/2018 2:33 PM				285.1 -> 153				Diazepam-D5	6.670	114860	
Dihydrocodeine	302.2 -> 198	10/30/2018 2:33 PM				302.2 -> 128				Dihydrocodeine-D6	5.016	83307	
Diphenhydramine	256.2 -> 167	10/30/2018 2:33 PM				7 256.2 -> 152				Diphenhydramine-D3	6.188	700120	
Doxylamine	271.2 -> 182				Policipano	7 271.2 -> 167				Doxylamine-D5	5.818	554150	
EDDP	279.2 -> 235				research.	7 279.2 -> 250				EDDP-D3	6.143	23291	
Fentanyl	337.2 -> 105				**************************************	337.2 -> 188			늽	Fentanyl-D5	6.561	756879	
Fluoxetine	310.1 -> 44.3	10/30/2018 2:33 PM			- CONTROL OF	310.1 -> 148				Fluoxetine-D6	6.361	742222	
Hydrocodone	300.2 -> 198		5.548	227514	Infinity	300.2 -> 128	Infinity	1091		Hydrocodone-D6	5.505	140837	
Hydromorphone	286.2 -> 184		4.840	163691	113.31	286.2 -> 157	108.36	1088	늽	Hydromorphone-D6	4.778	57124	
Ketamine	238.1 -> 125				- CARROON	238.1 -> 220			Ĭ	Ketamine-D4	6.108	302816	
Mirtazapine	266.2 -> 195	-			.000	72.3				Tramadol-13C-D3	5.594	682172	
Mitragynine	399.2 -> 238	-			- STATE OF	399.2 -> 174				Tramadol-13C-D3	5.594	682172	
Meprobamate	219.1 -> 158					219.1 -> 97.1				Meprobamate-D7	2.660	102578	
Methadone	310.2 -> 265				100000	310.2 -> 105				Methadone-D9	6.442	425216	
Methamphetamine	150.1 -> 91.1		5.132	39175	6.63	150.1 -> 119	2.32	11561		Methamphetamine-D11	5.092	295851	-
Morphine	286.2 -> 201					286.2 -> 165				Morphine-D6	4.497	3997	
Norbuprenorphine	414.3 -> 101					414.3 -> 57.3				Norbuprenorphine-D3	600.9	24981	
Nordiazepam	271.1 -> 140				12	271.1 -> 208				Nordiazepam-D5	6.512	18088	
Nortentanyl	233.2 -> 84.2				à	233.2 -> 55.3				Norfentanyl-D5	5.455	487885	
Norhydrocodone	286.2 -> 199					286.2 -> 171			4	Norhydrocodone-D3	5.102		not evaluated
Noroxycodone	302.1 -> 284				3	302.1 -> 186				Noroxycodone-D3	5.017	81723	
O-desmethyl-tramadol	250.2 -> 58.3					250.2 -> 42.3				O-desmethyl-tramadol	5.047	587359	
Oxazepam	287.1 -> 240					_ 287.1 -> 268				Oxazepam-D5	6.365	46664	
Oxycodone	316.2 -> 298				2000	1				Oxycodone-D6	5.218	170389	
Oxymorphone	302.1 -> 284				52000	302.1 -> 227				Oxymorphone-D3	4.471	151533	
Phentermine	150.1 -> 65.2	10/30/2018 2:33 PM				150.1 -> 133				Phentermine-D5	5.254	399782	
Promethazine	285.1 -> 86.2					_ 285.1 -> 71.3				Promethazine-D3	6.650	11274	
Quetiapine	384.2 -> 253					384.2 -> 221				Quetiapine-D8	6:659	300079	
Sertraline	306.1 -> 158		6.689	434547	2126.15	306.1 -> 275	71620	3848		Sertraline-D3	889.9	141831	
Temazepam	301.1 -> 255	10/30/2018 2:33 PM		Control of the land of the lan	V PPEACHT COMMISSION C	301.1 -> 283	PROTEST COLUMN TO SERVICE SE COLUMN TO SERVICE			Temazepam-D5	6.486	176722	A SA
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ISTD Results	Resp.	5.594 682172	878124	594934	814977	
GTSI	RT	5 594	6 823 8	5.919	6.402	
ISTD Method	Name	Tramadol-13C-D3			Zolpidem-D6	
sults	Area MI	1_	<u>) </u>	L	The state of the s	
ier 1 Re	Are					
Qualif	S/N					
p1 external control Results Qualifier 1 M Qualifier 1 Results	Transition	264.2 -> 43.3	372.2 -> 148	278.2 -> 260	308.2 -> 263	
ults	Σ	L.	<u></u>	L		
itrol Res	N/S					
xternal control Results	Resp.					
p1 ex	RT					
p1 external control	Acq, Date-Time	264.2 -> 58.3 10/30/2018 2:33 PM	372.2 -> 176 10/30/2018 2:33 PM	278.2 -> 58.3 10/30/2018 2:33 PM	308.2 -> 235 10/30/2018 2:33 PM	
pot	Transition	264.2 -> 58.3	372.2 -> 176	278.2 -> 58.3	308.2 -> 235	
Compound Method	Name	Tramadol	Trazodone	Venlafaxine	Zolpidem	

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STD Results	Resp.	35778	75730	248061	3962	83239	26411	198744	141984	136357	353320	246941	262384	576879	18663	25785	232691	114958	164506	108005	83905	827047	615919	33783	752755	753015	142124	53484	318023	665463	665463	98065	480712	284431	4634	25408	198//		+901x	616487	39701	181608	169163	375889	12325	291918	149265
ISTD	RT	5.339	5.590	7.303	5.385	5.037	6.379	5.863	6.464	4.931	5.853	6.128	6.126	6.175	6.319	5.281	6.530	6.267	5.595	6.670	5.036	6.188	5.818	6.163	6.561	6.361	5.505	4.798	6.128	5.614	5.614	2.660	6.463	5.112	4.517	600.9	6.532	5.4/5	5 027	5.068	6.365	5.218	4.492	5.274	6.650	089.9	6 688
ISTD Method	Name	6-MAM-D6	7-Aminoclonazepam-D4	Buprenorphine -D4	Benzoylecgonine-D8	Noroxycodone-D3	a-hydroxyalprazolam-D5	alpha-PVP-d8	Alprazolam-D5	Amphetamine-D11	Cocaine-D3	Bupropion-D9	Carisoprodol-D7	Citalopram-D6	Clonazepam-D4	Codeine-D6	Cyclobenzaprine-D3	Dextromethorphan-D3	Dextrorphan-D3	Diazepam-D5	Dihydrocodeine-D6	Diphenhy dramine-D3	Doxylamine-D5	EDDP-D3	Fentanyl-D5	Fluoxetine-D6	Hydrocodone-D6	Hydromorphone-D6	Ketamine-D4	Tramadol-13C-D3	Tramadol-13C-D3	Meprobamate-D7	Methadone-D9	Methamphetamine-D11	Morphine-D6	Norbuprenorphine-D3	Nordiazepam-U5	NortentanyI-U5	Norwandon Do	O-desmethyl-tramadol-	Oxazepam-D5	Oxycodone-D6	Oxymorphone-D3	Phentermine-D5	Promethazine-D3	Quetiapine-D8	Sertraline-D3
ults	Ξ	7	L	F	<u>L</u>	7 1		<u>7</u>	96	17	15	1	L 6,	39	<u> </u> 9(1	7	72	4	7		2	25	9	99	80	90	0	<u>ε</u>	72	13		L 22	1/2	 88	L	17	υ Z	1 0		7.2	L	5	2	12	L	
1 Res	Area	954	12161	6971	7728	12267	3438	16104	35096	69647	19845	30407	36679	30789	3206	6147	16324	18872	18014	18777	12638	34215	89925	25106	11756	5208	11206	11810	26903	41672	49843	14862	75162	36157	3438	4080	4002	36/85	404	7810	4075	9891	8315	745	41485	1114	27053
Qualifier 1 Results	N/S	4.54	560.01	76.15	136.77	51.18	39.57	Infinity	164.61	128.61	4254.82	7367.57	41.76	87.14	23.58	131.15	60.91	3016.02	425.68	1229.92	18.38	69.05	85.05	27.72	2369.47	30.80	Infinity	37.12	13.83	139.25	10169	69.29	224.50	Infinity	16.36	27.09	17.73	52.96	10.00	58 68	5.73	50.55	43.70	Infinity	78.53	42429	1508.07
Qualifier 1 M	Transition	328.2 -> 211	^	468.3 -> 101	290.1 -> 105	268.2 -> 56.3	325.1 -> 215	232.2 -> 77.1	309.1 -> 205	136.1 -> 119	304.2 -> 105	240.1 -> 131	261.2 -> 55.3	325.2 -> 262	316.1 -> 213	300.2 -> 165	276.2 -> 231	272.2 -> 147	258.2 -> 133	285.1 -> 153	302.2 -> 128	256.2 -> 152	271.2 -> 167	279.2 -> 250	337.2 -> 188	310.1 -> 148	300.2 -> 128	286.2 -> 157	238.1 -> 220	266.2 -> 72.3	399.2 -> 174	219.1 -> 97.1	310.2 -> 105	150.1 -> 119	286.2 -> 165	414.3 -> 5/.3	2/1.1 -> 208	255.2 -> 55.3	3021 -> 186	250.2 -> 42.3	287.1 -> 268	316.2 -> 241	302.1 -> 227	150.1 -> 133	285.1 -> 71.3	384.2 -> 221	306 1 -> 275
sults	S/N MI	263.79	3398.67	135.99	296.06	4264.76	40.84	197.07	163.86	107.43	141.88	Infinity ☐	215.56	172.42	3554.54	12.57	409.29	91.04	163.06	69.05	83.58	261.28	59.58	139.70	25.24	Infinity	16.59	25.45	116.73	69.82	249.53	89.95	278.49	8.48	35.30	35.87	54.03	14 85	11 81	281.71	1848.59	55.51	428.17	Infinity	56298	1372.32	Pfinity
cal 1-1a Results	Resp.	1240		57598		14168	5076	45248	34030	145901	82695	51752	37469	121575	13241	6545	48418	22366	26215	25542	16701	145508	115763	79247	15626	149872	22157	16743	74233	69217	19219	18334	75006	102496	3882	5//2	7348	1681	11022	129753		34551	33335	25619	205589	- 1	00000
p1	R	5.380	5.612	7.324	5.406	5.594	6.379	5.926	6.465	4.972	5.874	6.169	6.147	6.196	6.320	5.344	6.552	6.268	5.596	6.691	5.079	6.209	5.839	6.163	6.561	6.362	5.569	4.860	6.129	6.534	6.558	5.681	6.464	5.153	4.558	6.029	6.553	5.430	5.038	5.068	6.386	5.279	4.534	5.295	6.691	6.701	6 680
p1 cal 1-1a	Acq. Date-Time	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1·5/1 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	10/30/2018 1:54 PM	306 1 -> 158 10/30/2018 1·5// DM
pou	Transition	328.2 -> 165	286.1 -> 121				325.1 -> 297	232.2 -> 91.0	309.1 -> 281	136.1 -> 91.1		240.1 -> 184				300.2 -> 215				~~~}.					-:		-> 198						;				-	286.2 -> 04.2	-		1 :	316.2 -> 298	302.1 -> 284	150.1 -> 65.2	285.1 -> 86.2	384.2 -> 253	3061 -> 158
Compound Method	Name	6-MAM	7-aminoclonazepam	Buprenorphine	Benzoylecgonine	Metoprolol	a-hydroxyalprazolam	alpha-PVP	Alprazolam	Amphetamine	Cocaine	Bupropion	Carisoprodol	Citalopram	Clonazepam	Codeine	Cyclobenzaprine	Dextromethorphan	Dextrorphan	Diazepam	Dihydrocodeine	Diphenhydramine	Doxylamine	EDDP	Fentany	Fluoxetine	Hydrocodone	Hydromorphone	Ketamine	Mirtazapine	Mitragynine	Meprobamate	Methadone	Methamphetamine	Morphine	Norbuprenorpnine	Nordiazepami	Norbydrocodona	Noroxycodone	O-desmethyl-tramadol	Oxazepam	Oxycodone	Oxymorphone	Phentermine	Promethazine	Quetiapine	Sertraline

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ISTD Results	RT Resp.	6.486 98572	9			
STD Method	Name	6620 F Temazepam-D5	7382 Tramadol-13C-D3	1369 Trazodone-D6	24774 Venlafaxine-D6	55440 Zolpidem-D6
1 Results	Area MI	6620	7382		24774	55440
Qualifier	N/S	9.04			57,43	
Qualifier 1 M Qualifier 1 Results	MI Transition	5159.41 301.1 -> 283	264.2 -> 43.3	18352	128.81 278.2 -> 260	717.35 308.2 -> 263
Results	S/N MI	5159.41	157.28	1	128.81	717.35
p1 cal 1-1a Results	Resp.	13220	133202	1	-	ľ
	RT	6.527	5.615	6.864	5.940	6.424
p1 cal 1-1a	Acq. Date-Time	301.1 -> 255 10/30/2018 1:54 PM	264.2 -> 58.3 10/30/2018 1:54 PM	372.2 -> 176 10/30/2018 1:54 PM	278.2 -> 58.3 10/30/2018 1:54 PM	308.2 -> 235 10/30/2018 1:54 PM
pou	Transition	301.1 -> 255	264.2 -> 58.3	372.2 -> 176	278.2 -> 58.3	308.2 -> 235
Compound Method	Name	Temazepam	Tramadol	Trazodone	Venlafaxine	Zolpidem



p2	p2 negative	P2	p2 negative Results	Results	\dashv	Qualifier 1 M	Qualifier 1	1 R	ISTD Method	ISTD	ISTD Results
Acq.	Acq. Date-Time	RT	Resp.	S/N	Ξ	Transition	S/N Area	Ξ	Name	RT	Resp.
/30/201	10/30/2018 2:23 PM				L	323.2 -> 105		L	Acetylfentanyl-D5	6.367	8831
30/201	10/30/2018 2:23 PM				L	342.1 -> 203		L	alpha-hydroxymidazolam	6.426	2333
30/201	10/30/2018 2:23 PM				i. L	278.2 -> 105		L.	Amitriptyline-D3	6.657	1673
30/201	10/30/2018 2:23 PM				L	219.1 -> 56.3		<u>L</u>	Acetylnorfentanyl-D5	4.997	3314
30/201	237.1 -> 193 10/30/2018 2:23 PM				Ļ	237.1 -> 194		<u>L</u>	Carbamazepine-13C6	6.136	7858
0/201	300.1 -> 227 10/30/2018 2:23 PM				Ľ	300.1 -> 282		L	Chlordiazepoxide-D5	6.573	1314
0/201	389.1 -> 244 10/30/2018 2:23 PM				L	389.1 -> 216		<u>L</u>	Zopiclone-D4	6.403	1371
0/201	387.2 -> 238 10/30/2018 2:23 PM				L	387.2 -> 111		L	Sufentanil-D5	6.927	6000
0/201	10/30/2018 2:23 PM				L	267.2 -> 44.3		L	Desipramine-D3	6.458	6052
0/201	280.2 -> 107 10/30/2018 2.23 PM				L	280.2 -> 77.2		L	Doxepin-D3	6.353	2747
0/201	295.1 -> 267 10/30/2018 2:23 PM				L.	295.1 -> 205		L.	Estazolam-D5	6.391	1763
0/201	8 2:23 PM				Ĺ	314.1 -> 239		1	Flunitrazepam-D7	6.409	7795
0/201	388.2 -> 315 10/30/2018 2:23 PM				Ë	388.2 -> 317		1_	Zopiclone-D4	6.403	1371
0/201	10/30/2018 2:23 PM				L	281.2 -> 58.3		1	Imipramine-D3	6.575	3966
0/201	10/30/2018 2:23 PM				L	205.1 -> 178		L	Sufentanil-D5	6.927	6000
//201	10/30/2018 2:23 PM				È	278.2 -> 117		<u>L</u>	Amitriptyline-D3	6.657	1673
/201	10/30/2018 2:23 PM				L	180.1 -> 105		l.	MDA-D5	5.105	2590
/201	208.1 -> 163 10/30/2018 2:23 PM				L	208.1 -> 105		<u>L</u>	MDEA-D6	5.386	3509
7/201	194.1 -> 163 10/30/2018 2:23 PM				L	194.1 -> 105		<u>L</u>	MDMA-D6	5.245	48316
0/201	248.2 -> 220 10/30/2018 2:23 PM				L	248.2 -> 174		L	Meperidine-D4	5.891	98963
0/201	234.2 -> 84.2 10/30/2018 2:23 PM				Ì	234.2 -> 56.3		<u>L</u>	Meperidine-D4	5.891	98963
0/201	326.1 -> 223 10/30/2018 2:23 PM				L	326.1 -> 249		L	Midazolam-D4	6.609	2182.
0/201	10/30/2018 2:23 PM				L	234.1 -> 160		<u>L</u>	Normeperidine-D4	5.750	1140
0/201	10/30/2018 2:23 PM				L	284.1 -> 93.2		<u>L</u>	7-aminoflunitrazepam-D7	5.762	1290
0/201	10/30/2018 2:23 PM				L	264.2 -> 233		<u>L.</u>	Nortriptyline-D3	6.479	1383
30/201	349.0 -> 206 10/30/2018 2:23 PM				i.	349.0 -> 183		<u>L</u>	Phenazepam-D4	6.486	8198
30/201	10/30/2018 2:23 PM				Ĺ	244.2 -> 91.1		<u>L</u>	Phencydlidine-D5	6.054	1355
30/201	253.1 -> 104 10/30/2018 2:23 PM				Ĺ	253.1 -> 182		1	Phenytoin-D10	6.052	11315
30/201	166.1 -> 148 10/30/2018 2:23 PM				L	166.1 -> 133		<u>L</u>	Pseudoephedrine-D3	4.743	4160
30/201	10/30/2018 2:23 PM				L	222.2 -> 121		L	Tapentadol-D3	5.588	4935.
0/201	306.1 -> 236 10/30/2018 2:23 PM	-	nemrenen'		Ļ	306.1 -> 264		<u></u>	Zaleplon-D4	6.227	1430

Compound Method	por	p2 external control	p2 exte	rnal contro	p2 external control Results	Qualifier 1 M	Qualifie	Qualifier 1 Results	ISTD Method	ISTD	STD Results
Name	Transition	Acq. Date-Time	RT	Resp.	S/N MI	Transition	N/S	Area MI	II Name	RT	Resp.
Acetylfentanyl	323.2 -> 188	10/30/2018 2:43 PM				323.2 -> 105			Acetylfentanyl-D5	6.367	10698
alpha-hydroxymidazolam	342.1 -> 324	10/30/2018 2:43 PM			<u> </u>	342.1 -> 203		ł	alpha-hydroxymidazolam	6.426	282106
Amitriptyline	278.2 -> 91.2	10/30/2018 2:43 PM			<u>L</u>	278.2 -> 105		-	Amitriptyline-D3	6.657	187306
Acetylnorfentanyl	219.1 -> 84.2	10/30/2018 2:43 PM			Lange	[219.1 -> 56.3		<u> </u>	Acetylnorfentanyl-D5	4.997	378775
Carbamazepine	237.1 -> 193	237.1 -> 193 10/30/2018 2:43 PM			L	237.1 -> 194		<u> </u>	Carbamazepine-13C6	6.136	842638
Chlordiazepoxide	300.1 -> 227	300.1 -> 227 10/30/2018 2:43 PM			Lancoon.	300.1 -> 282		3	Chlordiazepoxide-D5	6.573	146695
Zopiclone	389.1 -> 244	389.1 -> 244 10/30/2018 2:43 PM			L.	389.1 -> 216		<u> </u>	Zopiclone-D4	6.403	168368
Sufentanil	387.2 -> 238	10/30/2018 2:43 PM			1	387.2 -> 111		il	Sufentanil-D5	6.927	795253
Desipramine	267.2 -> 72.3	10/30/2018 2:43 PM			<u>L.</u>	267.2 -> 44.3		ll	Desipramine-D3	6.458	763559
Doxepin	280.2 -> 107	10/30/2018 2:43 PM			Person.	280.2 -> 77.2		<u></u>	Doxepin-D3	6.353	326865
Estazolam	295.1 -> 267	295.1 -> 267 10/30/2018 2:43 PM			Instruction of the last of the	[295.1 -> 205		<u> </u>	_ Estazolam-D5	6.370	200132
Flunitrazepam	314.1 -> 268	314.1 -> 268 10/30/2018 2:43 PM			1	314.1 -> 239		<u> </u>	Flunitrazepam-D7	6.409	8521
Flurazepam	388.2 -> 315	388.2 -> 315 10/30/2018 2:43 PM			<u> </u>	388.2 -> 317		I	Zopiclone-D4	6.403	168368
Imipramine	281.2 -> 86.2	281.2 -> 86.2 10/30/2018 2:43 PM			<u></u>	281.2 -> 58.3		1	Imipramine-D3	6.575	490307
Levamisole	205.1 -> 91.2	10/30/2018 2:43 PM			-	205.1 -> 178		<u> </u>	Sufentanil-D5	6.927	795253
Maprotiline	278.2 -> 91.2	10/30/2018 2:43 PM			larento.	278.2 -> 117		Agentani.	" Amitriptyline-D3	6.657	187306
MDA	180.1 -> 163	10/30/2018 2:43 PM			L	[180.1 -> 105		<u></u>	" MDA-D5	5.105	321500
MDEA	208.1 -> 163	10/30/2018 2:43 PM			<u>L.</u>	208.1 -> 105			MDEA-D6	5.386	419071
MDMA	194.1 -> 163	194.1 -> 163 10/30/2018 2:43 PM			Lone	194.1 -> 105		1	MDMA-D6	5.225	57704
Meperidine	248.2 -> 220	248.2 -> 220 10/30/2018 2:43 PM			<u>L</u>	248.2 -> 174		!	Meperidine-D4	5.891	120540
Methylphenidate	234.2 -> 84.2	234.2 -> 84.2 10/30/2018 2:43 PM			1	234.2 -> 56.3		<u> </u>	Meperidine-D4	5.891	120540
Midazolam	326.1 -> 223	10/30/2018 2:43 PM ,			James .	326.1 -> 249		1	Midazolam-D4	6.589	262983
Normeperidine	234.1 -> 42.3	10/30/2018 2:43 PM			<u> </u>	[234.1 -> 160		<u></u>	Normeperidine-D4	5.750	136351
7-Aminoflunitrazepam	284.1 -> 135	10/30/2018 2:43 PM			<u></u>	284.1 -> 93.2		L	7-aminoflunitrazepam-D7	5.762	153947
Nortriptyline	264.2 -> 91.2	10/30/2018 2:43 PM	6.480	432887	Infinity	264.2 -> 233	Infini	3745	Nortriptyline-D3	6.479	168444
Phenazepam	349.0 -> 206	349.0 -> 206 10/30/2018 2:43 PM				349.0 -> 183		1,,,,,,	Phenazepam-D4	6.465	9625
Phencyclidine	244.2 -> 86.2	244.2 -> 86.2 10/30/2018 2:43 PM			<u>L</u>	7 244.2 -> 91.1		<u> </u>	Phencydlidine-D5	6.033	167470
Phenytoin	253.1 -> 104	253.1 -> 104 10/30/2018 2:43 PM			<u>l</u>	253.1 -> 182		<u></u>	🏅 Phenytoin-D10	6.032	13531
Pseudoephedrine	166.1 -> 148	10/30/2018 2:43 PM			<u>L</u>	[166.1 -> 133		<u></u>	Pseudoephedrine-D3	4.743	521960
Tapentadol	222.2 -> 107	10/30/2018 2:43 PM			L	222.2 -> 121			ື Tapentadol-D3	5.588	570148
Zalenlon	306 1 -> 236	306.1 -> 236 10/30/2018 2:43 PM				3061 -> 264		<u> </u>	7alanlon-D4	E 227	171131

Signal Fo
Name and a
Acetylfentanyl-D5 alpha-hydroxymidazolam Amitriptyline-D3
Acetylfentanyl-D5 alpha-hydroxymidaz Amitriptyline-D3 Acetylnorfentanyl-D5
14.18 16863 9277 29007 58.69 37149 55.42 2150
-> 105 -> 203 9 -> 105 -> 56.3
323.2 342.1 278.2 219.1 237.1
11274 2957.43 11699 287.67 75591 140.04 6808 96.47 18593 64.82 19370 59.07 11642 73.68
6.367 111 6.446 411 6.658 75 5.019 66 6.157 18 6.573 197 6.423 111
10/30/2018 2:04 PM 10/30/2018 2:04 PM 10/30/2018 2:04 PM 10/30/2018 2:04 PM 10/30/2018 2:04 PM 10/30/2018 2:04 PM
323.2 -> 188 342.1 -> 324 278.2 -> 91.2

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

Extrac	ction Date:	10/30/2018		Analyst: _	Britany Wylie
Plate l	lot#: 0539904		Plate Expiration:	09/10/2019	
0 Blank	le phase A: 16 .1% Formic A to Blood Lot: 6 S-QQQ ID: 6	18 G 207 þ 7	MTBE	-	0.1% Formic acid in MeOH Hexane henyl Hexyl (4.6x50mm: 2.6 um)
1. 2.	Ensure correc	t column is insta	and needle wash refilled and begin mobile - 26 (63018	e phase flow allov	ure waste is not full. v to equilibrate ~ 30 minutes.
2. 3. 4. 5. 6. 7. 8. 9. 10. 12. 13. 15. 15.	Remove stand Pipette 1000 Blank blo Sample bl Place on shak Pipette 500 µl Place on shak Transfer 800 µ Apply positive (Load at 85-1 Wait 5 minute Add 2.25 mL Wait 5 minute Apply positive Add 2.25 mL Wait 5 minute Apply positive Add 2.25 mL Wait 5 minute Apply positive	pL blood (calibood for locations of ood for locations of ood for locations of ood for locations in gincubator at a L 0.1% formic at a L of blood+base pressure for apport of the pressu	containing standards/s containing standards/s containing only interpreted in wells of analymential temp., 900rp and in wells of analymential temp., 900rp are mixture to correspond prox. 4 seconds (or use to the right) Manifold increments of 750ulprox. 15 seconds. (16) a increments of 750ulprox. 15 seconds. (16) are prox. 15 seconds.	te ID: K52558 in QCs and internal standards om for 15 minutes. The properties of 15 minutes. The	. Shaker ID: 66759 LE+ plate. ains on top of sorbent).
,	Analytic				·
1 031- 1 1.	Create batch a Work				ne: THC-OH, a calculated sample concentration
3. 4. 5.	of 10 ng/mL o Retention time Did all QCs pa	r greater for Car within +/- 2% c ass for each analy	boxy-THC. or +/100 min whicho yte? Y/N	ever is greater of t	the average retention time of the calibrators. alibration and Control Reports

P

Batch Data Path D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

 Analysis Time
 10/31/2018 10:22 AM
 Analyst Name
 ISP Tox

 Report Time
 10/31/2018 10:26 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 10/31/2018 10:22 AM
 Batch State
 Processed

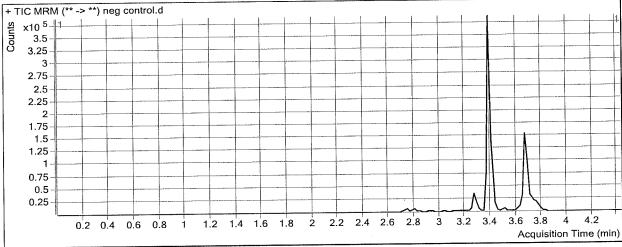
Analysis Info

Acq Time2018-10-31 00:56Data Fileneg control.dSample TypeSampleSample Nameneg controlDilution1Acq MethodScreen THC 8-2017.m

Position P1-A2 Sample Info

Inj Vol -1 Comment Blank Blood Lot 18G207D7 AM 26 Cannabinoid screen

Sample Chromatogram



100 m

Batch Data Path

D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

Analysis Time

10/31/2018 10:22 AM

Analyst Name ISP Tox

Report Time Last Calib Update 10/31/2018 10:26 AM 10/31/2018 10:22 AM **Reporter Name** ISP Tox **Batch State** Processed

Analysis Info

Acq Time

2018-10-31 00:42

Data File

QC 10 ng.d

Sample Type

QC 1 Sample Name Acq Method QC 10 ng

Dilution Position

P1-H1

Sample Info

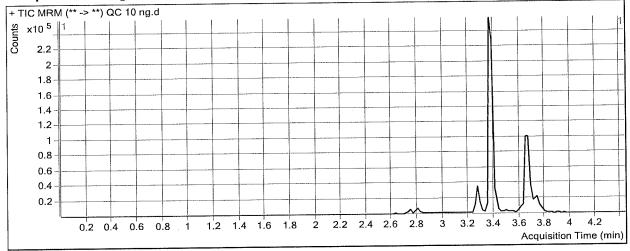
Screen THC 8-2017.m

Inj Vol

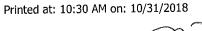
-1

Comment

AM 26 Cannabinoid screen



Results		Doenonso	ISTD Resp	Resp Ratio	Final Conc
Compound	RT	Response	131D Kesp	•	
THC-COOH	3.266	9985	65703	0.1520	9 . 6109
		22001	C10146	0.0393	4.7803
THC-OH	3 . 392	23981	610146	0.0393	4.7003
THC	3.740	1124	24867	0.0452	5.0015



ISP Forensics Calibration Curve Report

Batch Data Path

D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

Last Calib Update

10/31/2018 10:22 AM

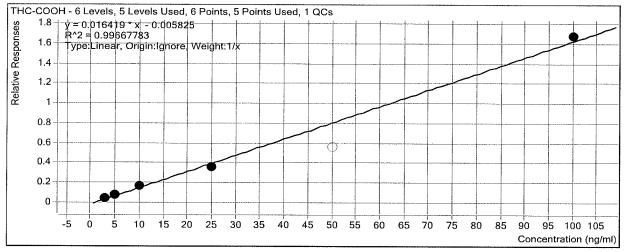
Analyst Name

ISP TOX

Target Compound

THC-COOH

Internal Standard THC-COOH-d9



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 1ng	1		1	0.0	0.0
cal 2 - 3ng	2	\square	3	3.3	108.4
cal 3 - 5ng	3	\square	5	4.9	97.2
QC 10 ng	3	\square	5	9.6	192.2
cal 4 - 10ng	4	\square	10	10.3	102.5
cal 5 - 25ng	5	\square	25	22.4	89.6
cal 6 - 50ng	6		50	34.7	69.5 -top of peak
cal 7 - 100ng	7	☑	100	102.2	102.2 cutoff.



ISP Forensics Calibration Curve Report

Batch Data Path

D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

Last Calib Update

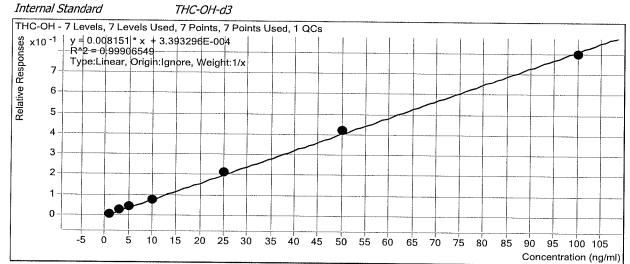
10/31/2018 10:22 AM

Analyst Name

ISP TOX

Target Compound

THC-OH



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 1ng	1	\square	1	0.9	94.4
cal 2 - 3ng	2	\square	3	3.1	102.3
cal 3 - 5ng	3	☑	5	5.1	101.4
QC 10 ng	3	\square	5	4.8	95.6
cal 4 - 10ng	4	☑	10	9.7	97.1
cal 5 - 25ng	5	\square	25	26.1	104.3
cal 6 - 50ng	6	☑	50	51.4	102.9
cal 7 - 100ng	7	☑	100	97.7	97.7



ISP Forensics Calibration Curve Report

Batch Data Path

D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

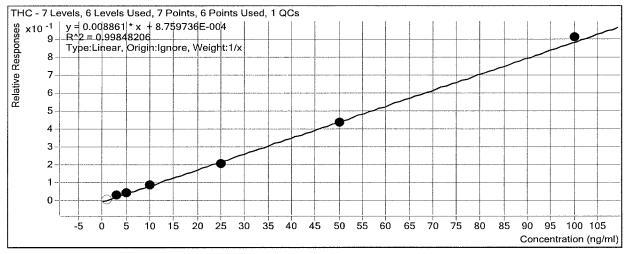
Last Calib Update

10/31/2018 10:22 AM

Analyst Name

ISP TOX

Target CompoundTHCInternal StandardTHC-d3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 1 - 1ng	1		1	1.0	102.7
cal 2 - 3ng	2	\square	3	3.3	108.8
cal 3 - 5ng	3	\square	5	4.9	97.3
QC 10 ng	3		5	5.0	100.0
cal 4 - 10ng	4	\square	10	10.0	100.1
cal 5 - 25ng	5	\square	25	23.2	92.8
cal 6 - 50ng	6	\square	50	49.4	98.8
cal 7 - 100ng	7	\square	100	102.3	102.3



Batch Data Path D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

 Analysis Time
 10/31/2018 10:22 AM
 Analyst Name
 ISP Tox

 Report Time
 10/31/2018 10:26 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 10/31/2018 10:22 AM
 Batch State
 Processed

Analysis Info

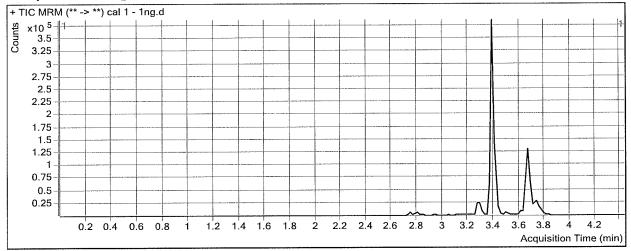
 Acq Time
 2018-10-30 23:50
 Data File
 cal 1 - 1ng.d

 Sample Type
 Calibration
 Sample Name
 cal 1 - 1ng.d

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

Position p1-a1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen



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к		u	11.5

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	3.392	5830	726030	0.0080	0.9435
THC	3.740	325	32589	0.0100	1.0270

Batch Data Path D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

 Analysis Time
 10/31/2018 10:22 AM
 Analyst Name
 ISP Tox

 Report Time
 10/31/2018 10:26 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 10/31/2018 10:22 AM
 Batch State
 Processed

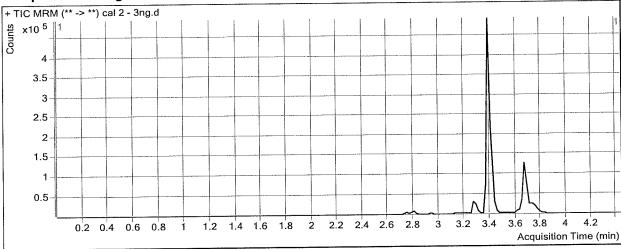
Analysis Info

Acq Time2018-10-30 23:56Data Filecal 2 - 3ng.dSample TypeCalibrationSample Namecal 2 - 3ng

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

Position P1-B1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3,286	4104	86252	0.0476	3.2530
THC-OH	3.392	24179	953767	0.0254	3.0685
	3.740	937	31456	0.0298	3,2626
THC	3./40	237	5	= =	



Batch Data Path D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

 Analysis Time
 10/31/2018 10:22 AM
 Analyst Name
 ISP Tox

 Report Time
 10/31/2018 10:26 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 10/31/2018 10:22 AM
 Batch State
 Processed

Analysis Info

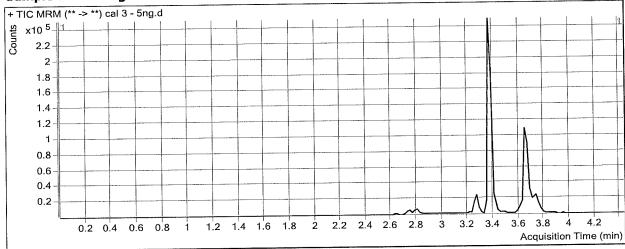
 Acq Time
 2018-10-31 00:03
 Data File
 cal 3 - 5ng.d

 Sample Type
 Calibration
 Sample Name
 cal 3 - 5ng.d

Dilution 1 **Acq Method** Screen 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	3,266	4303	58151	0.0740	4.8613
=		22125	530891	0.0417	5.0714
THC-OH	3.372				4.8645
THC	3.74 0	1143	25996	0.0440	4.0045



Batch Data Path D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

 Analysis Time
 10/31/2018 10:22 AM
 Analyst Name
 ISP Tox

 Report Time
 10/31/2018 10:26 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 10/31/2018 10:22 AM
 Batch State
 Processed

Analysis Info

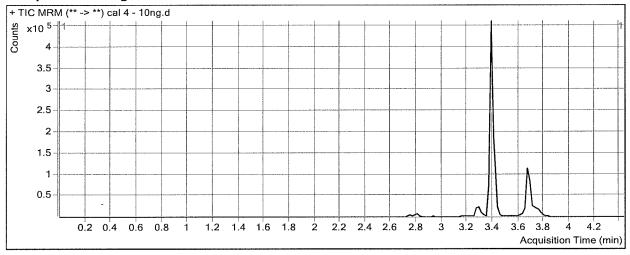
Acq Time2018-10-31 00:10Data Filecal 4 - 10ng.dSample TypeCalibrationSample Namecal 4 - 10ng

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

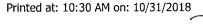
Position P1-D1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Results						
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
THC-COOH	3.286	10594	65176	0.1625	10.2543	
THC-OH	3.392	64966	817474	0.0795	9.7083	
THC	3.740	2348	26211	0.0896	10.0108	



Dogulto

D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin **Batch Data Path**

Analyst Name ISP Tox **Analysis Time** 10/31/2018 10:22 AM Reporter Name ISP Tox **Report Time** 10/31/2018 10:26 AM Processed **Batch State Last Calib Update** 10/31/2018 10:22 AM

Analysis Info

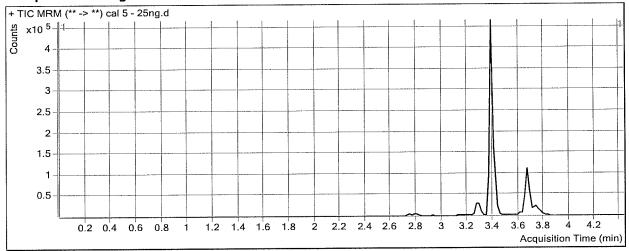
2018-10-31 00:16 Data File cal 5 - 25ng.d **Acq Time** cal 5 - 25ng Sample Name Sample Type Calibration

Screen THC 8-2017.m Dilution Acq Method 1

Sample Info **Position** p1-e1

AM 26 Cannabinoid screen Comment Inj Vol -1

Sample Chromatogram



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.286	22099	61087	0.3618	22.3887
THC-OH	3.392	155468	730569	0.2128	26.0661
THC	3.740	4940	23931	0.2064	23.1965

Printed at: 10:30 AM on: 10/31/2018



Batch Data Path

D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

Analysis Time

10/31/2018 10:22 AM

Analyst Name ISP Tox

Report Time Last Calib Update 10/31/2018 10:26 AM 10/31/2018 10:22 AM **Reporter Name** ISP Tox **Batch State** Processed

Analysis Info

Acq Time

2018-10-31 00:23

Data File

cal 6 - 50ng.d

Sample Type

Calibration

Sample Name

cal 6 - 50ng

Dilution

1

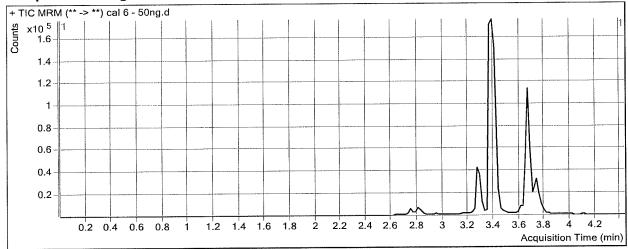
Acq Method

Screen THC 8-2017.m

Position Inj Vol P1-F1 -1 Sample Info

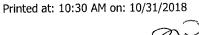
Comment

AM 26 Cannabinoid screen



Resu	lts
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1 Courts					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.286	37024	65565	0.5647	34.7482
THC-OH	3,412	170655	406642	0.4197	51.4452
THC	3.740	12314	28079	0.4386	49.3958



Batch Data Path D:\2018 Data\103018 AM 25-26\QuantResults\103018 cann screen.batch.bin

 Analysis Time
 10/31/2018 10:22 AM
 Analyst Name
 ISP Tox

 Report Time
 10/31/2018 10:26 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 10/31/2018 10:22 AM
 Batch State
 Processed

Analysis Info

 Acq Time
 2018-10-31 00:29
 Data File
 cal 7 - 100ng.d

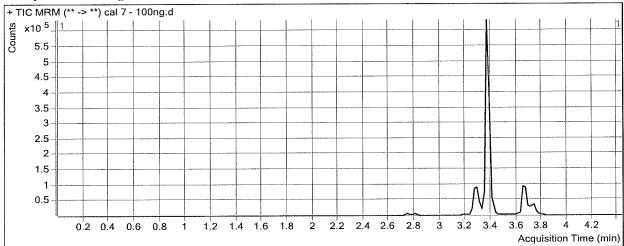
 Sample Type
 Calibration
 Sample Name
 cal 7 - 100ng

 Dilution
 1
 Acq Method
 Screen THC 8-2017.m

Position p1-g1 Sample Info

Inj Vol -1 Comment - AM 26 Cannabinoid screen

Sample Chromatogram



Results						
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
THC-COOH	3.286	171134	102299	1.6729	102.2427	
THC-OH	3.372	562811	706457	0.7967	97.6970	
THC	3.740	24350	26845	0.9071	102,2697	

Printed at: 10:30 AM on: 10/31/2018