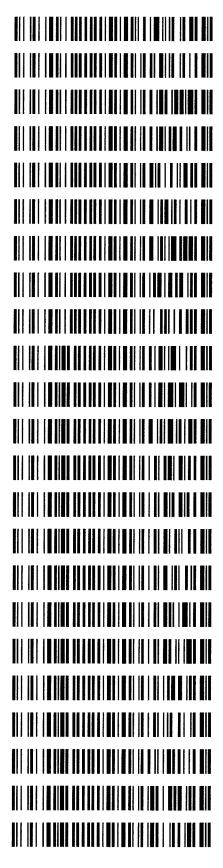
W۵	rk	list:	1:	Ω1	5
TYU	10	HOL.		o i	J

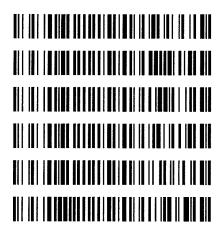
LAB CASE	ITEM	TASK ID	DESCRIPTION
C2017-1186	1	90003	AM 25/AM 26 Blood MultiDrug/
C2017-1390	1	89663	AM 25/AM 26 Blood MultiDrug/
00047 4000		00740	
C2017-1393	1	89710	AM 25/AM 26 Blood MultiDrug/
C2017-1395	1	89721	AM 25/AM 26 Blood MultiDrug/
G2017-1395	1	09121	AIVI 25/AIVI 26 BIOOG WILLIEDTUG/
C2017-1412	1	89951	AM 25/AM 26 Blood MultiDrug/
02017 1712	•	00001	7 W 20/7 W 20 Blood Walabrag
C2017-1420	4	90082	AM 25/AM 26 Blood MultiDrug/
			•
C2017-1422	1	90129	AM 25/AM 26 Blood MultiDrug/
C2017-1438	1	90304	AM 25/AM 26 Blood MultiDrug/
C2017-1448	1	90440	AM 25/AM 26 Blood MultiDrug/
M2017-2859	1	90581	AM 25/AM 26 Blood MultiDrug/
	_		
M2017-2860	3	90582	AM 25/AM 26 Blood MultiDrug/
140047 0070	2	00400	ARE OF (ARE OF DIS SIZE AND
M2017-2873	3	90133	AM 25/AM 26 Blood MultiDrug/
M2017-2987	1	90294	AM 25/AM 26 Blood MultiDrug/
WIZO 17-2307	1	30234	ANI ZO/ANI ZO DIOOG MIGILIDIAG/
M2017-2988	1	90271	AM 25/AM 26 Blood MultiDrug/
	•		
M2017-2988	2	90431	AM 25/AM 26 Blood MultiDrug/
			•
M2017-2989	1	90273	AM 25/AM 26 Blood MultiDrug/
M2017-2989	2	90433	AM 25/AM 26 Blood MultiDrug/
M2017-2990	1	90275	AM 25/AM 26 Blood MultiDrug/
M2017-2990	2	90438	AM 25/AM 26 Blood MultiDrug/
110047 0004	_	00077	444.05/444.00 PL
M2017-2991	1	90277	AM 25/AM 26 Blood MultiDrug/
M2017 2021	1	00279	AM 25/AM 26 Blood MultiDayer
M2017-3021	1	90278	AM 25/AM 26 Blood MultiDrug/
M2017-3082	1	90283	AM 25/AM 26 Blood MultiDrug/
2011 0002	•	30200	, iii. 20/ iiii 20 biood Malabidg/
M2017-3090	1	90284	AM 25/AM 26 Blood MultiDrug/
	•	·	





Worklist: 1815

LAB CASE	<u>ITEM</u>	TASK ID	DESCRIPTION
M2017-3091	1	90285	AM 25/AM 26 Blood MultiDrug/
M2017-3152	1	90286	AM 25/AM 26 Blood MultiDrug/
M2017-3193	1	90295	AM 25/AM 26 Blood MultiDrug/
M2017-3218	2	90316	AM 25/AM 26 Blood MultiDrug/
M2017-3315	2	90442	AM 25/AM 26 Blood MultiDrug/
P2017-1556	1	90583	AM 25/AM 26 Blood MultiDrug/





Toxicology AM method 25 external prep information

working solution 10000 ng/ml in meoh mirtazapine, amitriptyline, codeine, diphenhydramine, 20000 ng/ml meoh morphine

Stock solution 1mg/ml 100 ul each for all except morphine 200 ul in 9400 ul meoh

Ppd 3/31/17 Exp: 9/21/17 lot 92117

diphenhydramine Drug codeine amitriptyline mirtazapine Morphine fn09161502 헍 fe08141515 fe10271401 fn07081401 fe04201503 expiration 11/1/2019 11/1/2020 9/1/2019 9/1/2020 4/1/2020

AM 25 control 100 ul working solution in 9900 ul blood lot 62117

ppd 3/21/17 Exp 6/21/17 by AMN Concentration 100ng/ml amitriptyline, codeine, diphenhydramine, mirtazapine 200/ng/ml morphine

PPS 6-26-17 Exp 9-21-17 by AMN 10+92117

1

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

Extraction Date: 701-17 Analyst: Ame Nore	
PRE-ANALYTIC () - /2-2017	
Plate Lot# 0495940 Plate. Exp. 1 2/12/2017	
√ 1. Ensure all solutions are within expiration date.	
• Mobile Phase A: 10mM Amm Formate • 0.5M Ammonium Hydroxide	
• Mobile Phase B 0.1% FA in MeOH • Column: Phenomenex Phenyl Hexyl (4.6 x 50mm; 2	2.6um)
 Blank/Negative Blood: Lot 321623-1 Ethyl Acetate 	
2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.	
3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.	
√ 4. Create worklist. Data path name: 72117 blood screen on 25-26	
ANALYTIC	
1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.	
2. Pipette 250μL blood (calibrated pipette) 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	
4. Pipette 250μL 0.5M ammonium hydroxide buffer in wells of analytical plate.	
5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.	
6. Transfer 300μL of blood+base mixture to corresponding wells of SLE+ plate.	
7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).	
(Load at 85-100 PSI- Selector to the right) Manifold ID 66729 Wait 5 min.	
wait 5 min. 8. Add 900μL ethyl acetate and allow to flow for 5 minutes under gravity.	
9. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left)	
10. Add 900μL ethyl acetate and allow to flow for 5 minutes under gravity.	
11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left)	
12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID 66819	
13. Reconstitute in 100μL 100% MeOH and heat seal plate with foil. Place in autosampler and run workli	st.
POST-ANALYTIC Tail mas of	
1. Open quantitation software and create a new quantitation batch. Batch name:	_
2. Make any necessary integration changes.	
3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peal symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. > 1/5 the response of administrative control.	
4. Did all QCs pass for each analyte? (Y)/N	
5. Central File Packet to include: LIMS Worklist: Method Checklist Calibration Control Reports	n and

COMMENTS:

A

	392.2 -> 226	Sertraline-D3	- 497.73	306.1 -> 275		97655	6.830	//21/201 / 4:1 / PM		Sertraline
	392.2 ->	-	-		ı.			1515511111111		-
_ -	200		49250	384.2 -> 221		389251	6.760	7/21/2017 4:17 PM	384.2 -> 253	Quetiapine
-	288.2 -> 89.2		100.07	285.1->71.3		633013	6.772	7/21/2017 4:17 PM		Promethazine
	155.2 -> 96.2		Infinity	150.1 -> 133		49732	5.336	7/21/2017 4:17 PM	150.1 -> 65.2	Phentermine
	305.2 -> 287		105.44	302.1 -> 227		68033	4.675	7/21/2017 4:17 PM		Oxymorphone
	322.2 -> 304		88.21	316.2 -> 241	448.35 3	76909	5.403	7/21/2017 4:17 PM	316.2 -> 298	Oxycodone
246 6.447	292.1 -> 246		<u> </u>	287.1 -> 268	30.71 2	26075	6.467	7/21/2017 4:17 PM	287.1 -> 240	Oxazepam
	256.2 -> 64.3		40.62	250.2 -> 42.3	403.93	229944	5.128	7/21/2017 4:17 PM	250.2 -> 58.3	O-desmethyl-tramadol
	305.2 -> 287		39.99	302.1 -> 186	24.15	42362	5.120	7/21/2017 4:17 PM	302.1 -> 284	Noroxycodone
	289.2 -> 202		3.93	286.2 -> 171	85.53 2	3818	5.204	7/21/2017 4:17 PM	286.2 -> 199	Norhydrocodone
	238.2 -> 84.2		41.63	233.2 -> 55.3	34836.93 2	193610	5.558	7/21/2017 4:17 PM	233.2 -> 84.2	Norfentanyl
• 140 6.613 	276.1 -> 140		Infinity	271.1 -> 208	781.70 2	32639	6.614	7/21/2017 4:17 PM	Ŀ	Nordiazepam
<u> </u>	417.3 -> 101		316.65	414.3 -> 57.3	67.76 2	10012	6.110	7/21/2017 4:17 PM	101	Norbuprenorphine
327	345.2 ->		107.74	342.2 -> 55.3	Infinity	19928	5.584	7/21/2017 4:17 PM	-> 324	Naltrexone
329 5.257	347.2 -> 329	1	87.43	344.2 -> 308	74.27		5.298	7/21/2017 4:17 PM	-> 326	Naltrexol
	333.2 -> 315		41.18	328.2 -> 211	36.07	71732	5.991	7/21/2017 4:17 PM	328.2 -> 309	Naloxone
	292.2 ->		22.88	286.2 -> 165	16.33 2	7235	4.779	7/21/2017 4:17 PM	286.2 -> 201	Morphine
	161.2 -> 97.1		Infinity	150.1 -> 119	Infinity 1	281839	5.234	7/21/2017 4:17 PM	150.1 -> 91.1	Methamphetamine
	319.3 -> 268		151.48	310.2 -> 105	164.07	342480	6.585	7/21/2017 4:17 PM	310.2 -> 265	Methadone
	226.2 ->		7.56	219.1 -> 97.1	7.61 2	22608	5.701	7/21/2017 4:17 PM	219.1 -> 158	Meprobamate
	242.1 -> 129		69.97			121364	6.189	7/21/2017 4:17 PM		Ketamine
	292.2 -> 185		17.03	286.2 -> 157		30996 🖵	5.042	7/21/2017 4:17 PM		Hydromorphone
	306.2 -> 202		13.34	300.2 -> 128	953.87	57091	5.713	7/21/2017 4:17 PM	300.2 -> 198	Hydrocodone
	316.2 -> 44.3		32.95	310.1 -> 148	202.71	356860	6.485	7/21/2017 4:17 PM	310.1 -> 44.3	Fluoxetine
	342.3 -> 105	Fentanyl-D5	7249.40	337.2 -> 188	57.40	44833	6.599	7/21/2017 4:17 PM	337.2 -> 105	Fentanyl
	282.2 -> 235		150.80	279.2 -> 250	230.97	235227	6.266	7/21/2017 4:17 PM	279.2 -> 235	EDDP
	276.2 -> 187		150.21	271.2 -> 167	174.86 2	392017	5.921	7/21/2017 4:17 PM	271.2 -> 182	Doxylamine
	259.2 -> 167		52.68	٧	127.44 2	417789	6.290	7/21/2017 4:17 PM	256.2 -> 167	Diphenhydramine
	308.2 ->	Dihydrocodeine-D6	58.16	302.2 -> 128	12.04 3	35575	5.201	7/21/2017 4:17 PM	302.2 -> 198	Dihydrocodeine
	290.1 -> 198	68,37 Diazepam-D5	68.37			58781 1	6.772	7/21/2017 4:17 PM	285.1 -> 193	Diazepam
157	261.2 ->		219.04		10135.89	64798 厂	5.678	7/21/2017 4:17 PM	258.2 -> 157	Dextrorphan
171	۷l		239.06			82721	6.390	7/21/2017 4:17 PM	272.2 -> 171	Dextromethorphan
	279.2 ->		52.36		27567.21 2	180504	6.653	7/21/2017 4:17 PM		Cyclobenzaprine
	306.2 ->		54.11	300.2 -> 165		14510	5.486	7/21/2017 4:17 PM	300.2 -> 215	Codeine
	320.1 -> 217		57.41			26701	6.401	7/21/2017 4:17 PM	316.1 -> 269	Clonazepam
	331.2 -> 109		376.50	٧l	**********	276617	6.297	7/21/2017 4:17 PM	325.2 -> 109	Citalopram
	268.2 -> 183		10.16	261.2 -> 55.3		110419	6.187	7/21/2017 4:17 PM	261.2 -> 176	Carisoprodol
	249.2 -> 185		9463.84			133552	6.229	7/21/2017 4:17 PM	240.1 -> 184	Bupropion
130	147.2 -> 130		18.67	136.1 -> 119		157141	5.032	7/21/2017 4:17 PM	136.1 -> 91.1	Amphetamine
286 6.545	314.1 ->		Infinity	309.1 -> 205		77015 🦳	6.546	7/21/2017 4:17 PM	309.1 -> 281	Alprazolam
91.1 5.944	240.2 -> 91.1		61.99	232.2 -> 77.1	105.54	183352	6.007	7/21/2017 4:17 PM	232.2 -> 91.0	alpha-PVP
	330.1 -> 302		101.88	325.1 -> 215	118.83	13380	6.460	7/21/2017 4:17 PM	325.1 -> 297	a-hydroxyalprazolam
84.2 5.070	224.2 -> 84.2		~ 26.96	219.1 -> 56.3	1639.38 2	10383	5.091	7/21/2017 4:17 PM	219.1 -> 84.2	Acetyl Norfentanyl
	328.2 -> 105		~ 128.70	323.2 -> 188	68.17	34620	6.399	7/21/2017 4:17 PM	323.2 -> 105	Acetyl Fentanyl
	290.1 -> 121	7-Aminoclonazepam-D4	128.98	286.1 -> 222	232.14	42422	5.611	7/21/2017 4:17 PM	286.1 -> 121	7-aminoclonazepam
165 5.462	334.2 -> 165	6-MAM-D6	258.14	328.2 -> 211	16.54	2468 □	5.503	7/21/2017 4:17 PM	328.2 -> 165	6-MAM
ition RT	Transition	Name	<u>a</u> S/N	Transition MI	S/N	Resp. MI	RT	Acq. Date-Time	Transition	Name
ISTD Results	Ď	ISTD Method	Qualifier 1 R	Qualifier 1 M Q		p1 cal 1a Results	A CONTRACTOR OF THE CONTRACTOR	p1 cal 1a	hod	Compound Method



	Compound Method	. 16.	p1 cal 1a Acq. Date-Time		p1 cal 1a Results	Result	s/N	Qualifier 1 M Qu Transition MI	Qualifier	lalifier 1 R	Nai	ISTD Method	TD Method	TD Method
	Name	Transition	Acq. Date-Time	RT	Resp.	NI.	S/N	Transition	_≧_	ťΛ	S/N	S/N Name	Name	
	Temazepam	301.1 -> 255	301.1 -> 255 7/21/2017 4:17 PM	6.588	6.588 113423		107.69	107.69 301.1 -> 283			17.16 To	17.16 Temazepam-D5		17.16 Temazepam-D5 306.1 -> 260 6.587 56118:
	Tramadol	264.2 -> 58.3	264.2 -> 58.3 7/21/2017 4:17 PM	5.697	5.697 315373		301.71	301.71 264.2 -> 43.3			6.57 T	6.57 Tramadol-13C-D3		
1	Trazodone	372.2 -> 176	372.2 -> 176 7/21/2017 4:17 PM	6.923	428499		476.76	476.76 372.2 -> 148	1	_	194.79 Ti	194.79 Trazodone-D6		
	Venlafaxine	278.2 -> 58.3	278.2 -> 58.3 7/21/2017 4:17 PM	6.041	6.041 298425	_	373.93	373.93 278.2 -> 260	_		41.12 V			
1.	Zolpidem	308.2 -> 235	308.2 -> 235 7/21/2017 4:17 PM	6.486 340514	2/05/1/	_	Infinity	Infinity 308.2 -> 263	1	ı,	333.77 Z			333.77 Zolpidem-D6 314.2 -> 235 6.463 1602246



Oliotionino		Promethazine	Phentermine	Oxymorphone	Oxycodone	Oxazepam	O-desmethyl-tramadol	Noroxycodone	Norhydrocodone	Norfentanyl	Nordiazepam	Norbuprenorphine	Naltrexone	Naltrexol	Naloxone	Morphine	Methamphetamine	Methadone	Meprobamate	Ketamine	Hydromorphone	Hydrocodone	Fluoxetine	Fentanyl	EDDP	Doxylamine	Diphenhydramine	Dihydrocodeine	Diazepam	Dextrorphan	Dextromethorphan	Cyclobenzaprine	Codeine	Clonazepam	Citalopram	Carisoprodol	Bupropion	Amphetamine	Alprazolam	alpha-PVP	a-hydroxyalprazolam	Acetyl Norfentanyl	Acetyl Fentanyl	7-aminoclonazepam	6-MAM	Name	ر ا
		ne	Φ	ne	***************************************		/l-tramadol	ine	done		3	rphine					tamine		ite		none	ō					amine	eine		1	orphan	prine		n		ol		ne			prazolam	entanyl	anyl	nazepam		ne	Compound Method
	20/ 2 \ 252	285.1 -> 86.2	150.1 -> 65.2	302.1 -> 284	316.2 -> 298	287.1 -> 240	250.2 -> 58.3	302.1 -> 284	286.2 -> 199	233.2 -> 84.2	271.1 -> 140	414.3 -> 101		V	328.2 -> 309	286.2 -> 201	150.1 -> 91.1	310.2 -> 265	219.1 -> 158	238.1 -> 125	286.2 -> 184	300.2 -> 198	310.1 -> 44.3	337.2 -> 105	279.2 -> 235	271.2 -> 182	256.2 -> 167	302.2 -> 198	285.1 -> 193	258.2 -> 157	V	276.2 -> 214	300.2 -> 215	316.1 -> 269	325.2 -> 109	261.2 -> 176	240.1 -> 184	136.1 -> 91.1	309.1 -> 281	232.2 -> 91.0	325.1 -> 297	219.1 -> 84.2	323.2 -> 105	286.1 -> 121	328.2 -> 165	Transition	hod
1 7/04 /004 7 7 10 D14		7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	1	7/21/2017 4:36 PM	7/21/2017 4:36 PM			7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	7/21/2017 4:36 PM	Acq. Date-Time	p1 negative						
	0.00	6.813	5.315	4.716	5.587	6.529	5.128	5.059	5.286	5.803	6.715	6.090		5 542	5.645	4.980	5.275	6.524		6.230	4.920	5.754	6.464		6.266	5.921		5.344	6.731	5.452	6.104	6.633	5.426	6.544	6.297	6.187	6.128	5.032	6.383	5.966	6.561	5.131				뭐	
0.00	E 4.4	2567	44963	279	855	112	1098	619	76	48	19	116		5446	286	1072	88821	1175	7000000	254	369	61	358		913	696		59	1280	57	43	162	592	369	1153	9608	622	50835	3850	184	91	85				Resp.	p1 negative Results
	, mar	-1	4	0	0	0	3	0	0	0	0	1		5	0	0	Infinity	1	and the second	0	0	0	0	Marian .	217.14	0	Carrent.	0	1	0	0	0	2		0	0	2	16	14	0	0	- 1	and the second			M/S	Results
	0040	285.1->	150.1 ->	0.38 302.1 -> 227	0.87 316.2 -> 241	0.57 287.1 -> 268	3.61 250.2 -> 42.3	0.99 302.1 -> 186	0.37 286.2 -> 171	0.54 233.2 -> 55.3	0.52 271.1 -> 208	_	342.2 -> 55.3	5.84 344.2 -> 308	0.52 328.2 -> 211	0.66 286.2 -> 165	150.1 ->	.25 310.2 -> 105	219.1 ->	238.1 ->	286.2 ->	300.2 ->	0.66 310.1 -> 148		279.2 ->		256.2 ->	302.2 ->	285.1 ->	258.2 ->	272.2 ->	276.2 ->	300.2 ->	316.1 ->	325.2 ->	261.2 ->		16.68 136.1 -> 119	309.1 ->	232.2 ->	0.16 325.1 -> 215	1.01 219.1 -> 56.3		286.1 -> 222	328.2 -> 211	Transition	Qualifier 1 M
	3	0			 			_	0	0	179.	2.				33.	2						0		0	0	-	0		1	0	0	0	0	0	0		7	0	0				The second	1	MI S/N	Qualifier 1
	1 CHICHIGATER DO	0.99 Promethazine-D3	Phentermine-D5	.34 Oxymorphone-D3	78.84 Oxycodone-D6	.09 Oxazepam-D5	O-desmethyl-tramadol	Noroxycodone-D3	0.98 Norhydrocodone-D3	0.38 Norfentanyl-D5	179.94 Nordiazepam-D5	2.99 Norbuprenorphine-D3	Naltrexone-D3	Naltrexol-D3	Naloxone-D5	33.66 Morphine-D6	2.16 Methamphetamine-D11	Methadone-D9	Meprobamate-D7	Ketamine-D4		1.26 Hydrocodone-D6	0.78 Fluoxetine-D6			0.78 Doxylamine-D5			1.43 Diazepam-D5					Catalana La				1.14 Amphetamine-D11		0.35 alpha-PVP-d8		.46 Acetyl Norfentanyl-D5	Acetyl Fentanyl-D5	7-Aminoclonazepam-D4	6-MAM-D6	Name	1 ISTD Method
֡	200.2 03.2	288 2 -> 89 2	155.2 -> 96.2	305.2 -> 287	322.2 -> 304	292.1 -> 246	256.2 -> 64.3	305.2 -> 287	289.2 -> 202	238.2 -> 84.2	276.1 -> 140	417.3 -> 101	345.2 -> 327	347.2 -> 329	333.2 -> 315	292.2 -> 152	161.2 -> 97.1	319.3 -> 268	226.2 -> 165		292.2 -> 185	306.2 -> 202	316.2 -> 44.3	342.3 -> 105	282.2 -> 235	276.2 -> 187	259.2 -> 167	308.2 -> 202	290.1 -> 198	261.2 -> 157	275.2 -> 171	279.2 -> 215	306.2 -> 218		331.2 -> 109	268.2 -> 183	249.2 -> 185	147.2 -> 130	314.1 -> 286	240.2 -> 91.1	330.1 -> 302	224.2 -> 84.2	328.2 -> 105	290.1 -> 121	334.2 -> 165	Transition	d
	0./31	6 751				. 6.447				5.536			5.542				5.193	6.584	-								-								-					5.944	6.438				. 5,462	RT	ISTD
1	20000	28835	317930	292261	315321	114265	961710	165769	75526	762190	90902	36700	246326	385178	339068	4388	272659	14694	115758	465828	86032	260542	13224	16562	68622	16377	18953	164193	240406	289723	332597	706299	49496	34345	10624	484608	559208	112590	301056	702768	57045	551012	18949	125493	63203	Resp.	ISTD Results



Compound Method	lethod	p1 negative		p1 negative Results	e Re	sults	Qualifier 1 M	Qu	/ Qualifier 1	ISTD Method	Q	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp. MI	≦	S/N	Transition	≦	S/N	Name	Transition	RT	Resp.
Temazepam	301.1 -> 255	301.1 -> 255 7/21/2017 4:36 PM	6.588	287		0.51	0.51 301.1 -> 283	-1		Temazepam-D5	306.1 -> 260 6.587	-	536520
Tramadol	264.2 -> 58.3	264.2 -> 58.3 7/21/2017 4:36 PM	5.697	5898	7	4.96	4.96 264.2 -> 43.3	7		Tramadol-13C-D3	268.2 -> 58.3 5.676	5.676	12602
Trazodone	372.2 -> 176	372.2 -> 176 7/21/2017 4:36 PM	6.943	2752		2.41	2.41 372.2 -> 148	_		Trazodone-D6	378.2 -> 182 6.902 16855.	6.902	16855
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3 7/21/2017 4:36 PM	6.082	617	-	0.62	0.62 278.2 -> 260	_		Venlafaxine-D6	284.2 -> 64.3 6.020 12735	6.020	12735
Zolpidem	308.2 -> 235	308.2 -> 235 7/21/2017 4:36 PM	6.648	1838	7	2.43	2.43 308.2 -> 263	1	1.31	1.31 Zolpidem-D6	314.2 -> 235 6.463 14640	6.463	14640



1570 3.44 1049 0.91 73 0.43 0.43 38989 1.66	10 10 10 10 10 10 10 10 10 1- 10 1- 10 18 10 10 10 10 10 10	337.2 > 188 1.01 310.1 > 148 0.70 310.1 > 148 13660 300.2 > 128 166.52 286.2 > 157 166.52 238.1 > 220 9.57 219.1 > 97.1 9.57 310.2 > 105 1431.65 328.2 > 211 9.57 286.2 > 165 0.51 344.2 > 308 0.51 414.3 > 57.3 0.51 414.3 > 57.3 1.59 233.2 > 55.3 1.59 286.2 > 171 13.72 302.1 > 186 0.21 250.2 > 42.3 0.41 287.1 > 268 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241 0.92 316.2 > 241
1570 3.44 1049 0.91 73 0.43	02 16 16 17 14 14 12 8 16 16 16 16 16 16 16 16 16 16 16 16 16	-> 188
1570	238 310 310 310 316 328 334 34 414 414 414 223 328 33 223 328 33 228 33 228	-> 188
1570 3.44	2386 310 3286 3286 3328 344 347 347 347 347 347 347 347 347 347	-> 188
7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	238 218 310 150 286 328 342 412 271 286 286 286 286 286 286 286	-> 188
4.978 154 1.00	238 218 310 150 286 328 344 412 271 271 271 271	-> 188
5820 77.82	238 218 218 310 310 310 310 310 310 310 310 310 310	-> 188
5.558 94 1 1.38	238 215 310 310 328 34 34 34 34 34 34 37	-> 188
-	150 150 150 150 150 150 150 150 150 150	-> 188
6.110 48 7 37.17	219 219 310 342 342	-> 188
205 🗀 0.88	238 210 310 328 328	-> 188
7612 3.82	238 219 310 310 328 328	-> 188
1151 7 0 92	219 219 150	-> 188
1 770 1 12/08	238	-> 188
1949	238	188
	-	337.2 -> 188
5.762 204 7 0.56		-> 188 T
	286	-> 188 T -> 128 T
	ဆ	
1290	310	
-	33	-
225 1.40	278	۷
732 0.97	271	167
44256 750.52	256	٧
28 - 0.57	8	۷
1414 1.69	28	۷
466 1.30	355	1
90 - 0.89	15	
258 2.89	276	231
129355 62317	ٳڰۣ	300.2 -> 165 75339
570 1.22	31	316.1 -> 213
868 1.09	22	325.2 -> 262
2310 0.76	9	
319 1.90	24	
56218 24.07	싫	
3762	38	309.1 -> 205
5.946 396 0.76	232	232.2 -> 77.1
6.521 503 71.08	325	325.1 -> 215
5.111 73 73 1.09	219	219.1 -> 56.3
	1 1 2 3	323.2 -> 188
1	38	286.1 -> 222
5.260 682 T 44.06 3	8	<u>328.2 -> 211 26.13</u>
RT Resp. MI S/N		Transition MI S/N
p1 external control Results Q	; ⊊	Qualifier 1 M Qualifier 1 R



Compound Method	ethod	p1 external control	p1e	p1 external control Results	ol Results	Qualifier 1 M		Qualifier 1 R	ISTD Method	iod	ISTD	ISTD Results
Name	Transition	Acq. Date-Time	RT	Resp. MI S/N	N/S	Transition	≧	S/N	Name	Transition	꾸	Resp.
Temazepam	301.1 -> 255	301.1 -> 255 7/21/2017 4:55 PM	6.446	728		0.58 301.1 -> 283			Temazepam-D5	306.1 -> 260 6.587 60648;	6.587	60648
Tramadol	264.2 -> 58.3	264.2 -> 58.3 7/21/2017 4:55 PM	5.697	6454	5.0	5.03 264.2 -> 43.3	╗	0.53	0.53 Tramadol-13C-D3	268.2 -> 58.3 5.676	5.676	13989
Trazodone	372.2 -> 176	372.2 -> 176 7/21/2017 4:55 PM	6.923	2132	2.4	2.49 372.2 -> 148		0.83	0.83 Trazodone-D6	378.2 -> 182 6.902	6.902	19419_
Venlafaxine	278.2 -> 58.3	278.2 -> 58.3 7/21/2017 4:55 PM	5.919	186		0.67 278.2 -> 260	ī	0.41	0.41 Venlafaxine-D6	284.2 -> 64.3 6.020	6.020	14369.
Zolpidem	200	308 2 -> 235 7/21/2017 4:55 PM	6.486	231		230 < C 808 VC C		0 X 1	0 01 Zalnidom D6	314 2 -> 235 6 463 16775	6.463	16775



Compound Method	1	p2 cal 1b Aca. Date-Time	B.	_ 2		Qualifier 1 M Transition	M Qua	Qualifier 1 Re		ISTD Method	3TD Method	TD Method
Name		Acq. Date-Time	RΤ	Resp. MI		Transition	I≦	10	S/N	S/N Name	Name	Name
7-aminoflunitrazepam	284.1 -> 135	7/21/2017 4:2	5.803	101805	60.15	284.1 -> 93.2	1		185.26	10000	10000	7-aminoflunitrazepam-D7
Amitriptyline	278.2 -> 91.2		6.782	180631	Infinity	278.2 ->				Infinity Amitriptyline-D3	Amitriptyline-D3	Amitriptyline-D3 281.2 -> 91.2
Amoxapine	314.1 -> 271	7/21/2017 4:2	6.736	91106	Infinity	314.1 ->		1. 1			Amitriptyline-D3	Amitriptyline-D3 281.2 -> 91.2
Benzoylecgonine	290.1 -> 168	7/21/2017 4:2	5.413	23125	64.86	290.1 -> 105		1	45.97		Benzoylecgonine-D8	Benzoylecgonine-D8 298.2 -> 171
Carbamazepine	237.1 -> 193	7/21/2017 4:2	6.198	37452	73.93		1	1			Carbamazepine-13C6	Carbamazepine-13C6 243.1 -> 200
Clomipramine	315.2 -> 86.2	7/21/2017 4:2	7 081	562833	Infinity	315 2 -> 58 3	1	- 1	Infinity		Clomingamine D3	Cilibidiazepoxide-D3 303.1 -> 286
Cocaine	304.2 -> 182	7/21/2017 4:2	5.963	249778	1136.74	304.2 -> 105		- 1		33.71 Cocaine-D3		Cocaine-D3
Desipramine	267.2 -> 72.3	7/21/2017 4:2	6.581	323736 F	48796	267.2 -> 44.3		- 1			Desipramine-D3	Desipramine-D3 270.2 -> 75.3
Doxepin	280.2 -> 107	7/21/2017 4:2	6.478	183700	Infinity	280.2 -> 77.2	7		5.15		Doxepin-D3	Doxepin-D3 283.2 -> 107
Estazolam	295.1 -> 267	7/21/2017 4:2	6.475	86485	241.45		7			1	Estazolam-D5	Estazolam-D5 300.1 -> 272
Flunitrazepam	314.1 -> 268	7/21/2017 4:2	6.492	74018	109,45		٦				Flunitrazepam-D7	Flunitrazepam-D7 321.1 -> 245
Flurazepam	388.2 -> 315	7/21/2017 4:2	6.628	267347	1081.98		_				Zopiclone-D4	Zopiclone-D4 393.1 -> 244
Imipramine	281.2 -> 86.2	7/21/2017 4:2	6.720	635703	 Infinity		7	~~~~	Infinity		Imipramine-D3	Imipramine-D3 284.2 -> 61.3
Levamisole	205.1 -> 91.2	7/21/2017 4:2	5.610	67282	16.04		-				Cocaine-D3	Cocaine-D3 307.2 -> 185
Maprotiline	278.2 -> 91.2	7/21/2017 4:2	6.275	171480	Infinity		_				Meperidine-D4	Meperidine-D4 252.2 -> 224
MDA	180.1 -> 163	7/21/2017 4:2	5.205	59906	Infinity	180.1 -> 105			-	-	MDA-D5	MDA-D5 185.1 -> 168
MDEA	208.1 -> 163	7/21/2017 4:2	5.487	132190	67.26	208.1 -> 105	٦			91.80 MDEA-D6	MDEA-D6	MDEA-D6 214.2 -> 166
MDMA	194.1 -> 163	7/21/2017 4:2	5.345	110730	274.29			1	552.22	552.22 MDMA-D6	552.22 MDMA-D6 200.2 -> 166	MDMA-D6 200.2 -> 166
Methylphopidot	248.2 -> 220	7/21/2017 4:2	5.993	87871	375.46	248.2 -> 174		1			Meperidine-D4	Meperidine-D4 252.2 -> 224
Metoprolol	268 2 -> 116	7/21/2017 4:2	5 662	36201	9448 62	234.2 -> 56.3	1	- 1	1116 51	951.35 Meperidine-D4		252.2 -> 224
Midazolam		7/21/2017 4:2	6.693	38697	76.51	326.1 -> 249	7	- 1	179.98	179.98 Midazolam-D4	179.98 Midazolam-D4 330.1 -> 295	
Mirtazapine	266.2 -> 195	7/21/2017 4:2	6.582	304639	1173.34	266.2 -> 72.3		- 1			Midazolam-D4	Midazolam-D4 330.1 -> 295
Mitragynine	399.2 -> 174	7/21/2017 4:2	6.606	117917	190.03	399.2 -> 238					Carbamazepine-13C6	Carbamazepine-13C6 243.1 -> 200
Normeperidine	234.1 -> 42.3	7/21/2017 4:2	5.832	96668	Infinity	234.1 -> 160	7	1	474.87		Normeperidine-D4	Normeperidine-D4
Norpropoxyphene	326.2 -> 44.3	7/21/2017 4:2	6.429	_	1			1			Norpropoxyphene-D5	Norpropoxyphene-D5 331.2 -> 44.3
Normptyline	٧V	7/21/2017 4:2	6.623	165334	-	264.2 ->		1			Nortriptyline-D3	Nortriptyline-D3 267.2 -> 233
Pentazocine	286.2 -> 218	7/21/2017 4:2	5 906	163187	609 27	294.2 -> 212		ì	329.31	Infinity Pentazocine-13C3		Pentazocine-13C3 289.2 -> 72.3 Dentazocine-13C3 289.2 -> 72.3
Phenazepam	349.0 -> 206	7/21/2017 4:2	6.569	68820	100.35				11318.74			
Phencyclidine	244.2 -> 86.2	7/21/2017 4:2	6.156	282294	798.76	244.2 -> 91.1		1	479.89	479.89 Phencydlidine-D5		249.2 -> 86.2
Phenytoin	253.1 -> 104	7/21/2017 4:2	6.114	5223	Infinity	253.1 -> 182	٦	1 1	28.43		Phenytoin-D10	Phenytoin-D10 263.2 -> 192
Prazepam	325.1 -> 271	7/21/2017 4:2	7.017	325841	4363.87	325.1 -> 140			611.42		Prazepam-D5	Prazepam-D5 330.1 -> 276
Primidone	219.1 -> 91.2	7/21/2017 4:2	5.486	12188	8.63	219.1 -> 162			56.21	1	Prazepam-D5	Prazepam-D5 330.1 -> 276
Propoxyphene	340.2 -> 58.3	7/21/2017 4:2	6.570	341718	145.07	340.2 -> 266		1 1	519.19	-	Propoxyphene-D11	Propoxyphene-D11 351.3 -> 277
Protriptyline			6.521	824434	5562.26	264.2 -> 161	रा	1	Infinity			Nortriptyline-D3 267.2 -> 233
Pseudoephedrine	V	7/21/2017 4:2	4.823	956750	2633.79						Pseudoephedrine-D3	Pseudoephedrine-D3 169.1 ->
Triminramine	295.2 -> 100	7/21/201/ 4:2	5.690	7/6726	Infinity	222.2	1		*****		Tapentadol-D3	Tapentadol-D3 225.2 -> 107
Verapamil	V.	7/21/2017 4:2	6.585	306642	Infinity	455.3 -> 150	7		Infinity	Infinity Trimingallille-D3		Triminramine-D3 298.2 ->
Zaleplon	306.1 -> 236	7/21/2017 4:2	6.310	89255	19439	306.1 ->	٦			The same of the	Zaleplon-D4 310.2 ->	Zaleplon-D4 310.2 -> 240
Zopiclone	389.1 -> 244	7/21/2017 4:2	6.486	67207	520.00	389.1 ->	7	- 1	115.06	-	Zopiclone-D4	Zopiclone-D4 393.1 -> 244



7/21/2017 4:46 PM 7/21/2017 4:46 PM 7/21/2017 4:46 PM 7/21/2017 4:46 PM		4.844 2 5.649 6.718	4.844 2007 1.50 166.1 ->	4.844 2007 1.50 166.1 -> 133	4.844 2007 1.50 166.1 -> 5.649 441 0.95 222.2 -> 6.718 215 0.71 295.2 -> 5 6.545 157 0.40 455.3 ->
4:4	7/21/2017 4:46 PM 5.731 7/21/2017 4:46 PM 6.610 7/21/2017 4:46 PM 7/21/2017 4:46 PM 4.844	5.731 6.610 4.844	5.731 3491 0.95 219.1 -> 6.610 258 0.70 340.2 -> 264.2 -> 264.2 -> 1.50 166.1 ->	5.731 3491 0.95 219.1 -> 162 6.610 258 340.2 -> 266 6.610 258 264.2 -> 161 264.2 -> 161 6.610 258 6.610 266 6.610 66.1 -> 133.	5.731 3491 0.95 219.1 -> 162 0.48 6.610 258 0.70 340.2 -> 266 4.07 264.2 -> 161 264.2 -> 161 0.35
7/21/2017 4:46 PM 7/21/2017 4:46 PM 7/21/2017 4:46 PM			6.197 299 0.55 244.2 > 9 6.175 897 7 4.19 253.1 -> 7.240 18 7 0.28 325.1 ->	6.197 299 0.55 244.2 -> 91.1 3 6.175 897 4.19 253.1 -> 182 7 7.240 18 0.28 325.1 -> 140 7	6.197 299 0.55 244.2 > 9 6.175 897 7 4.19 253.1 -> 7.240 18 7 0.28 325.1 ->
4:4		6.528 2529 T	5.906 55 0.43 286.2 -> 6.528 2529 734.94 349.0 -> 6.107 200 70.65 244.2 2	5.906 55 0.43 286.2 -> 41.3	5.906 55 0.43 286.2 -> 41.3 0.33 6.528 2529 734.94 349.0 -> 183
7/21/2017 4:46 PM		6.209	6.209 59 1.00 294.2 ->	6.209 59 100 294.2 -> 212	6.209 59 1.00 294.2 -> 212 1.09
4:4	7/21/2017 4:46 PM 6.327 7/21/2017 4:46 PM		6.327 135 5.48 326.2 ->	6.327	6.327 135 5.48 326.2 -> 252 0.56
7/21/2017 4:46 PM			234.1 ->	234.1 ->	234.1 -> 160
7/21/2017 4:46 PM		6.525	6.525 39 0.55 399.2 ->	6.525 39 0.55 399.2 -> 238	6.525 39 0.55 399.2 ->
7/21/2017 4:46 PM	6.896		6.896 33 0.36 326.1 ->	6.896 33 0.36 326.1 -> 249 6.582 1.58	6.896 33 0.36 326.1 -> 249 0.51
7/21/2017 4:46 PM	200		268.2 ->	268.2 -> 56.3	268.2 -> 56.3
7/21/2017 4:46 PM	5.913		64 0.83 234.2 -> 5	64 7 0.83 234.2 -> 56.3 7	64 0.83 234.2 -> 56.3
7/21/2017 4:46 PM	5.851	5.851 70	70 0.40 248.2 ->	70 0.40 248.2 -> 174	70 0.40 248.2 -> 174 1.99
7/21/2017 4:46 PM 7/21/2017 4:46 PM	5.528	5	5.528 97 T 1.07 208.1 ->	5.528 97 T 1.07 208.1 ->	5.528 97 T 1.07 208.1 ->
7/21/2017 4:46 PM		-	1	1	105
7/21/2017 4:46 PM			278.2 -> 117	278.2 -> 117	- 1
7/21/2017 4:46 PM	6.760	6.760 2013	2013 4.27 281.2 -> 5	2013 4.27 281.2 -> 58.3 7	2013 4.27 281.2 -> 58.3 101
7/21/2017 4:46 PM			388.2 ->	388.2 -> 317	
7/21/2017 4:46 PM	6.533	~	821 2.72 314.1 ->	821 2.72 314.1 -> 239	821 2.72 314.1 -> 239 0.47
7/21/2017 4:46 PM	6.475		84 0.47 295.1 ->	84 0.47 295.1 -> 205	84 0.47 295.1 -> 205 1 1.69
7/21/2017 4:46 PM	6.498	6.498 217	498 217 0.38 280.2 ->	498 217 0.38 280.2 -> 77.2	498 217 0.38 280.2 ->
7/21/2017 4:46 PM	0.007	-001	267 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	267 2 - 2.700 02:00	267 2 -> 44 3
7/21/2017 4:46 PM	7.204	F 08/ 150/ T	7.204 /90 5.31 315.2->3 5.084 1504 736.73 204.7 ×	7.204 /90 5.31 315.2 -> 58.3 F	1.204
7/21/2017 4:46 PM		0.030	0.030	0.030 031 0.37 300.1 -> 282	0.036
//21/2017 4:46 PM	_	6.15/	6.15/ /9 0.64 237.1 ->	6.15/ /9 0.64 237.1 -> 194	6.15/ /9 0.64 237.1 -> 194 3.02
7/21/2017 4:46 PM	-	5.413 1	5.413 112 0.51 290.1 ->	5.413 112 0.51 290.1 -> 105	5.413
7/21/2017 4:46 PM			314.1 ->	314.1 -> 193	314.1 -> 193
7/21/2017 4:46 PM	PM 6.782	_	6.782 3923 335 278.2 ->	6.782 3923 3.35 278.2 -> 105	6.782 3923 3.35 278.2 -> 105 1 1.14
7/21/2017 4:46 PM			6.529 215 0.66 342.1 ->	6.529 215 0.66 342.1 -> 203 1	6.529 215 0.66 342.1 -> 203 1.74
7/21/2017 4:46 PM			6.008	6.008 1269 10.09 284.1-> 93.2 1	6.008 1269 10.09 284.1->
Acq. Date-Time	ne RT	RT Resp. MI	RT Resp.	RT Resp. MI S/N Transition MI	RT Resp. MI S/N Transition
p2 negative	p2	p2 negative Results	p2 negative Results Qualifier 1 M	Qualifier 1 M	Qualifier 1





			1				1			+		
Compound Method)Q	pz external control	pz ex	external control Results	Results	Qualifier 1 M	Cual	Qualifier	ISTD Method		ISTD Results	Resi
Name	Transition	Acq. Date-Time	RT	Resp. MI	S/N	Transition	≦	S/N	Name	Transition	R	Resp.
7-aminoflunitrazepam	284.1 -> 135	7/21/2017 5:05 PM	6.028	2014	8.52	284.1 -> 93.2	-1	5.68	7-aminoflunitrazepam-D7	291.2 -> 138	5.782	309015
alpha-hydroxymidazolam	342.1 -> 324	7/21/2017 5:05 PM	6.549	270	169.75	342.1 -> 203		0.31	alpha-hydroxymidazolam	346.1 -> 328	6.508	534427
Amitriptyline	278.2 -> 91.2	7/21/2017 5:05 PM	6.782	17510	Infinity		7	Infini	Amitriptyline-D3	281.2 -> 91.2	6.760	744896
Amoxapine	314.1 -> 271	7/21/2017 5:05 PM		-		314.1 -> 193			Amitriptyline-D3	281.2 -> 91.2	6.760	744896
Benzoylecgonine	290.1 -> 168	7/21/2017 5:05 PM	5.434	87	1.76	V		4.27	Benzoylecgonine-D8	298.2 -> 171	5.391	
Carbamazepine	237.1 -> 193	7/21/2017 5:05 PM	6.218	143	1.70	237.1 -> 194		0.86	Carbamazepine-13C6	243.1 -> 200	6.197	16409
Chlordiazepoxide	300.1 -> 227	7/21/2017 5:05 PM	6.453	717	4.39	300.1 -> 282			Chlordiazepoxide-D5	305.1 -> 286	6.656	323386
Clomipramine	315.2 -> 86.2	7/21/2017 5:05 PM	6.898	85	0.40	315.2 -> 58.3	=	0.56	Clomipramine-D3	318.2 -> 89.2	7.060	25537
Cocaine	304.2 -> 182	7/21/2017 5:05 PM	5.984	1638	0.39	304.2 -> 105	7	0.68	Cocaine-D3	307.2 -> 185	5.942	10226
Desipramine 🛪	267.2 -> 72.3	7/21/2017 5:05 PM	6.581	189920	856.98	267.2 -> 44.3		Infini	Desipramine-D3	270.2 -> 75.3	6.580	17919
Doxepin	280.2 -> 107	7/21/2017 5:05 PM	6.518	682	1.57	280.2 -> 77.2			Doxepin-D3	283.2 -> 107	6.456	917036
Estazolam	295.1 -> 267	7/21/2017 5:05 PM	6.373	58	0.52	295.1 -> 205	1	2.86	Estazolam-D5	300.1 -> 272	6.453	440074
Flunitrazepam	314.1 -> 268	7/21/2017 5:05 PM	6.533	1148	315.69	314.1 -> 239		0.91	Flunitrazepam-D7	321.1 -> 245	6.491	16620
Flurazepam	388.2 -> 315	7/21/2017 5:05 PM		**************************************		388.2 -> 317			Zopiclone-D4	393.1 -> 244	6.485	232559
Imipramine	281.2 -> 86.2	7/21/2017 5:05 PM	6.679	4109	300.94	-> 58		0.92	lmipramine-D3	284.2 -> 61.3	6.699	15324
Levamisole	205.1 -> 91.2	7/21/2017 5:05 PM	5.793	128	0.92	205.1 -> 178			Cocaine-D3	307.2 -> 185	5.942	10226
Maprotiline	278.2 -> 91.2	7/21/2017 5:05 PM		woman a		278.2 -> 117	٦		Meperidine-D4	252.2 -> 224	5.992	462050
MDA	180.1 -> 163	7/21/2017 5:05 PM	5.064	245	0.90	180.1 -> 105			MDA-D5	185.1 -> 168	5.185	305936
MDEA	208.1 -> 163	7/21/2017 5:05 PM	5.629	39	0.44	208.1 -> 105		0.35	MDEA-D6	214.2 -> 166	5.487	677542
MDMA	194.1 -> 163	7/21/2017 5:05 PM	5.244	31	0.32	194.1 -> 105	7		MDMA-D6	200.2 -> 166	5.325	55746
Meperidine	248.2 -> 220	7/21/2017 5:05 PM	6.176	38	0.51	248.2 -> 174		0.65	Meperidine-D4	252.2 -> 224	5.992	462050
Methylphenidate	234.2 -> 84.2	7/21/2017 5:05 PM				234.2 -> 56.3	_		Meperidine-D4	252.2 -> 224	5.992	462050
Metoprolol	268.2 -> 116	7/21/2017 5:05 PM				268.2 -> 56.3	7		Meperidine-D4	252.2 -> 224	5.992	462050
Midazolam	326.1 -> 223	7/21/2017 5:05 PM	6.511	76	4.30	326.1 -> 249		0.40	Midazolam-D4	330.1 -> 295	6.692	599963
Mirtazapine	266.2 -> 195	7/21/2017 5:05 PM	6.582	29313	479,34	266.2 -> 72.3		Infini	Midazolam-D4	330.1 -> 295	6.692	599963
Mitragynine	399.2 -> 174	7/21/2017 5:05 PM				399.2 -> 238			Carbamazepine-13C6	243.1 -> 200	6.197	16409
Normeperidine	234.1 -> 42.3	7/21/2017 5:05 PM	5.975	56	0.63	234.1 -> 160		0.64	Normeperidine-D4	238.2 -> 164	5.831	380346
Norpropoxyphene	326.2 -> 44.3	7/21/2017 5:05 PM				326.2 -> 252			Norpropoxyphene-D5	331.2 -> 44.3	6.428	192324
Nortriptyline	264.2 -> 91.2	7/21/2017 5:05 PM				264.2 -> 233			Nortriptyline-D3	267.2 -> 233	6.621	563535
Ondansetron	294.2 -> 184	7/21/2017 5:05 PM	6.435	83	0.72	-> 2	_		Pentazocine-13C3	289.2 -> 72.3	5.905	603413
Pentazocine	286.2 -> 218	7/21/2017 5:05 PM				286.2 -> 41.3	٦		Pentazocine-13C3	289.2 -> 72.3	5.905	603413
Phenazepam	349.0 -> 206	7/21/2017 5:05 PM	6.508	2415	129.82	349.0 -> 183			Phenazepam-D4	353.0 -> 183	6.547	23727
Phencyclidine	244.2 -> 86.2	7/21/2017 5:05 PM	6.095	394	1.22	244.2 -> 91.1	7	3.10	Phencydlidine-D5	249.2 -> 86.2	6.135	12950
Phenytoin	253.1 -> 104	7/21/2017 5:05 PM	5.992	3774	13.53	253.1 -> 182	-1		Phenytoin-D10	263.2 -> 192	6.094	20511
Prazepam	325.1 -> 271	7/21/2017 5:05 PM	6.997	106	1.04	325.1 -> 140			Prazepam-D5	330.1 -> 276	6.995	14661
Primidone	219.1 -> 91.2	7/21/2017 5:05 PM	5.608	498	0.71	219.1 -> 162			Prazepam-D5	330.1 -> 276	6.995	14661
Propoxyphene	340.2 -> 58.3	7/21/2017 5:05 PM	6.326	164	0.51	340.2 -> 266		0.93	Propoxyphene-D11	351.3 -> 277	6.527	444078
Protriptyline	264.2 -> 155	7/21/2017 5:05 PM				V	7		Nortriptyline-D3	267.2 -> 233	6.621	563535
Pseudoephedrine	166.1 -> 148	7/21/2017 5:05 PM	4.844	546	0.75	v			Pseudoephedrine-D3	169.1 -> 151	4.822	511719
Tapentadol	222.2 -> 107	7/21/2017 5:05 PM				222.2 -> 121			Tapentadol-D3	225.2 -> 107	5.669	10080
Trimipramine	295.2 -> 100	7/21/2017 5:05 PM	6.718	308	0.61	295.2 -> 58.3		0.91	Trimipramine-D3	298.2 -> 103	6.820	35019
Verapamil	455.3 -> 165	7/21/2017 5:05 PM	6.606	56	1.15		troon (0.57	Trimipramine-D3	298.2 -> 103	6.820	35019
Zalepion	306.1 -> 236	174 174017 0.00 1 INI	0.000			٧	1			310.2 -> 240		303899
	2004	7/21/2017 5:05 PM	0.000		•	455.3 -> 150 306.1 -> 264	Yahaa	_	Zalepion-D4		6.289	ζ

THC and Metabolites Screen in Blood by LC-MS/MS Extraction Date: 7-21-17 Analyst: Acos No. 10

	Extraction Date: 7-24-17 Analyst: Analyst: More
DDE ANA	, · · · · · · · · · · · · · · · · · · ·
PRE-ANA Plate Lot	
7	Ensure all solutions are within expiration date.
	 Mobile Phase A: 10mM Amm Formate 0.1% Formic Acid in water
	 Mobile Phase B: 0.1% FA in MeOH MTBE
	Blank/Negative Blood: Lot 321632-1 Hexane
1	• Column: Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)
2.	Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.
	Begin mobile phase flow and allow system to equilibrate for approx. 30 min.
4.	Create worklist. Data path name: 72417 blood seren AM 26
ANALYTI $\sqrt{1}$.	Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
$\frac{\sqrt{1}}{\sqrt{1}}$ 2.	Add 1000 μL blood to wells of analytical (standards) plate. Mix via aspirate and dispense.
	Blank blood for locations containing standards/QCs and internal standards
	 Sample blood for locations containing standards Sample blood for locations containing only internal standards
√ 3.	Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID 66759
√ 4.	Pipette 500μL 0.1% formic acid to all wells of standards plate.
J 5.	Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
√ 6.	Transfer 800μL of blood+acid mixture to corresponding wells of SLE+ plate.
7.	Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).
1	(Load at 85-100 PSI- Selector to the right) Pressure Manifold ID 66729 Wait 5 min.
$\frac{\sim}{\sqrt{}}$ 8.	Add 2.25mL MTBE and allow to flow under gravity for 5 minutes. (add in 3 increments of 750uL)
$\frac{3}{\sqrt{9}}$.	Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left)
1 10.	Add 2.25mL Hexane and allow to flow under gravity for 5 minutes. (add in 3 increments of 750uL)
J 11.	Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left)
J 12.	Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID 66819
	Reconstitute in 100 μL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.
	, , , , , , , , , , , , , , , , , , , ,
POST-AN	ALYTIC
$\frac{\checkmark}{}$ 1.	Open quantitation software and create a new quantitation batch. Batch name: 72417 can screen
<u>√</u> 2.	Make any necessary integration changes.
$ \begin{array}{c} $	For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% retention time of calibrators?
4.	Did QCs pass for each analyte? Y/N
<u></u>	Central File Packet to include: LIMS Worklist: Method Checklist Calibration and Control Reports
Comments:	
	First extraction done 7-21-17. data not evaluated wrong plate used A 72117 blood screen am 25-26 A

Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

 Acq Time
 2017-07-24 11:40
 Data File
 QC 10.d

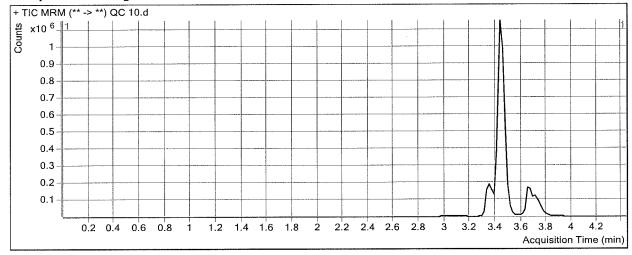
 Sample Type
 QC
 Sample Name
 QC 10

Dilution 1 **Acq Method** Screen THC 11102016.m

Position P1-H1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Resu	ılts
------	------

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.346	123125	684699	0.1798	10.6912
THC-OH	3.433	261975	3548993	0.0738	9.4011
THC	3.740	9122	101968	0.0895	9.6858



Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

 Analysis Time
 7/24/2017 3:53 PM
 Analyst Name
 ISP Tox

 Report Time
 7/24/2017 3:54 PM
 Reporter Name
 ISP Tox

 Last Calib Update
 7/24/2017 3:53 PM
 Batch State
 Processed

Analysis Info

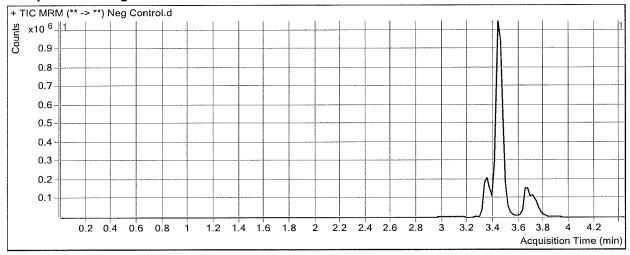
Acq Time2017-07-24 11:20Data FileNeg Control.dSample TypeSampleSample NameNeg Control

Dilution 1 Acq Method Screen THC 11102016.m

Position P1-a2 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen negative blood lot 32632-1

Sample Chromatogram



Resul	ts
-------	----

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.326	13762	850867	0.0162	1.3985

ISP Forensics Calibration Curve Report

Batch Data Path

D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Last Calib Update

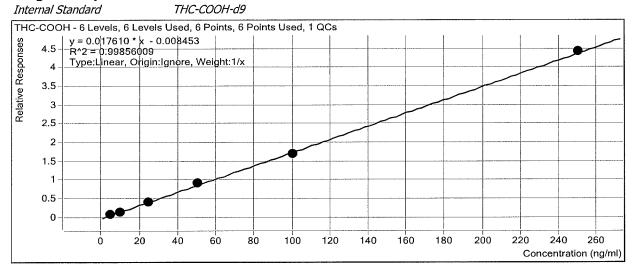
7/24/2017 3:53 PM

Analyst Name

ISP TOX

Target Compound

THC-COOH



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	☑	5	5.6	112.1
cal 3	3	\square	10	9.1	91.3
QC 10	3	☑	10	10.7	106.9
cal 4	4	\square	25	23.2	92.7
cal 5	5	☑	50	52.8	105.5
cal 6	6	\square	100	97.8	97.8
cal 7	7	☑	250	251.5	100.6



ISP Forensics Calibration Curve Report

Batch Data Path

D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

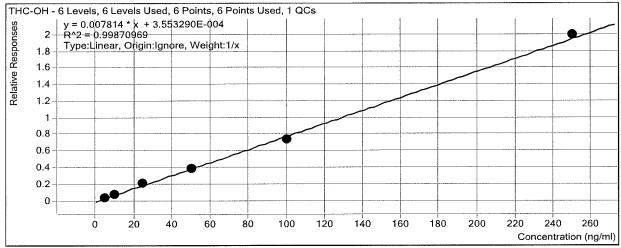
Last Calib Update

7/24/2017 3:53 PM

Analyst Name

ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	\square	5	5.1	101.4
cal 3	3	☑	10	9.9	98.6
QC 10	3	☑	10	9.4	94.0
cal 4	4	\square	25	26.2	104.7
cal 5	5	\square	50	49.3	98.7
cal 6	6	☑	100	94.7	94.7
cal 7	7	☑	250	254.9	101.9



ISP Forensics Calibration Curve Report

Batch Data Path

D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Last Calib Update

7/24/2017 3:53 PM

Analyst Name

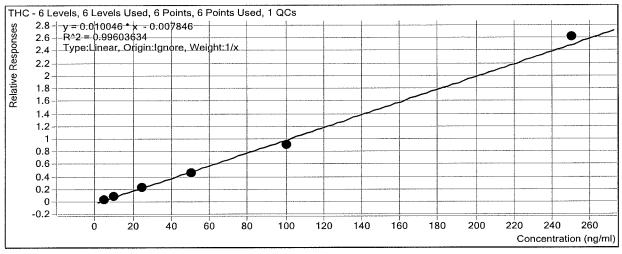
ISP TOX

Target Compound

THC

Internal Standard

THC-d3



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
cal 2	2	Ø	5	5.4	109.0
cal 3	3	\square	10	10.1	101.2
QC 10	3	\square	10	9.7	96.9
cal 4	4	\square	25	24.8	99.4
cal 5	5	\square	50	47.4	94.7
cal 6	6	\square	100	91.5	91.5
cal 7	7	\square	250	260.7	104.3



Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

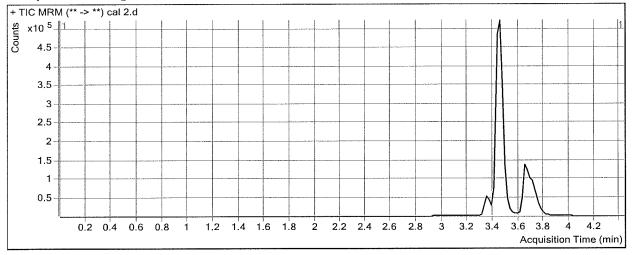
Acq Time2017-07-24 10:47Data Filecal 2.dSample TypeCalibrationSample Namecal 2

Dilution 1 Acq Method Screen THC 11102016.m

Position P1-B1 Sample Info

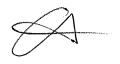
Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Resul	ts
-------	----

11004100					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.346	15696	173932	0.0902	5.6045
THC-OH	3.453	71746	1795742	0.0400	5.0675
THC	3,740	3702	78954	0.0469	5.4480



Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

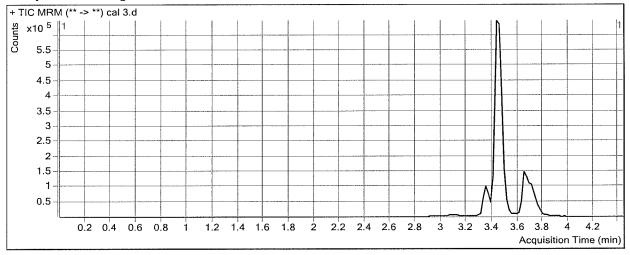
Acq Time2017-07-24 10:54Data Filecal 3.dSample TypeCalibrationSample Namecal 3

Dilution 1 Acq Method Screen THC 11102016.m

Position P1-C1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



n			1	٠.
ĸ	65	ш	1	TS

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.346	43185	283484	0.1523	9.1304
THC-OH	3.453	167334	2161374	0.0774	9.8623
THC	3.720	8013	85421	0.0938	10.1183

4

ISP cann screen report.xlsx Printed at: 3:55 PM on: 7/24/2017

Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

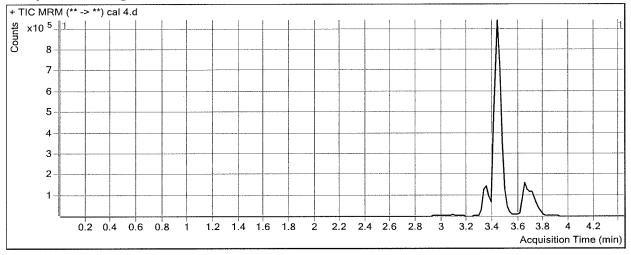
Acq Time2017-07-24 11:00Data Filecal 4.dSample TypeCalibrationSample Namecal 4

Dilution 1 **Acq Method** Screen THC 11102016.m

Position P1-D1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.346	130112	325724	0.3995	23.1630
THC-OH	3.433	522325	2548524	0.2050	26.1829
THC	3.720	23066	95428	0.2417	24.8401

A

Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

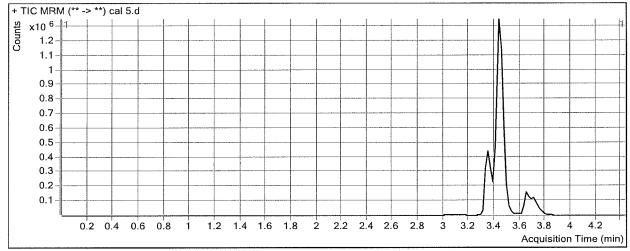
Acq Time2017-07-24 11:07Data Filecal 5.dSample TypeCalibrationSample Namecal 5

Dilution 1 Acq Method Screen THC 11102016.m

Position P1-E1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



R	ec	ш	te
к	C 3	uı	LS

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Compound	KI	Kesponse			
THC-COOH	3.346	702060	762358	0.9209	52.7735
THC-OH	3,433	1168944	3029844	0.3858	49.3278
THC	3,720	41722	89177	0.4679	47.3506

4

Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

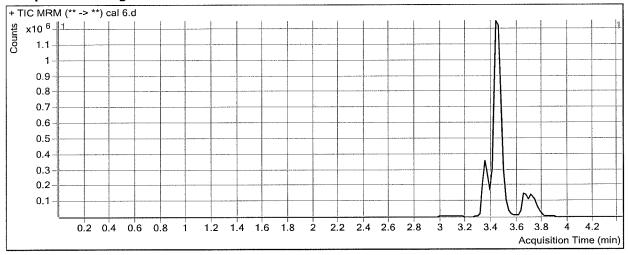
Acq Time2017-07-24 11:14Data Filecal 6.dSample TypeCalibrationSample Namecal 6

Dilution 1 Acq Method Screen THC 11102016.m

Position P1-F1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



Results					
Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.346	673647	393091	1.7137	97.7932
THC-OH	3.453	1812463	2448269	0.7403	94.6935
THC	3.740	90043	98799	0.9114	91.4968



Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

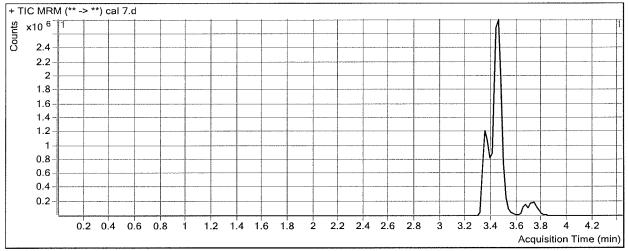
Acq Time2017-07-24 11:27Data Filecal 7.dSample TypeCalibrationSample Namecal 7

Dilution 1 **Acq Method** Screen THC 11102016.m

Position P1-G1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



D	^-	1	ltc
к	es	u	US

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3.346	3125625	706968	4.4212	251.5354
THC-OH	3,453	6160769	3092890	1.9919	254.8660
THC	3.740	256367	98160	2.6117	260,7461



Batch Data Path D:\2017 Data\72417 blood screen AM 26\QuantResults\72417 cann screen.batch.bin

Analysis Time7/24/2017 3:53 PMAnalyst NameISP ToxReport Time7/24/2017 3:54 PMReporter NameISP ToxLast Calib Update7/24/2017 3:53 PMBatch StateProcessed

Analysis Info

Acq Time 2017-07-24 14:58 Data File 3ng test.d - Callibrator on custom plate A

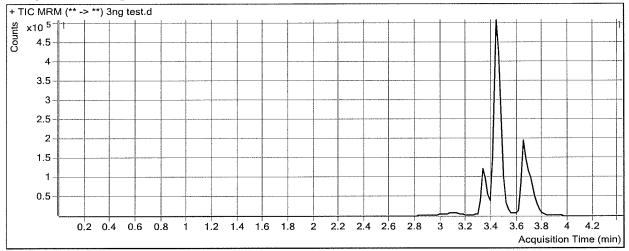
Sample Type Sample Sample Sample Sample Name 3ng test

Sample TypeSampleSample Name3ng testDilution1Acq MethodScreen THC 11102016.m

Position P1-A1 Sample Info

Inj Vol -1 Comment AM 26 Cannabinoid screen

Sample Chromatogram



_		-	_
o	001		ts
ж	C31	ш	1.5

Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-COOH	3,326	18048	339857	0.0531	3.4955
THC-OH	3,433	36184	1670999	0.0217	2.7256
THC	3.720	1434	48165	0.0298	3.7440

