REVIEWED
By Celena Shrum at 2:27 pm, Jan 22, 2020

1/15/2020 BW

Worklist: 3942

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2019-2451	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2452	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2453	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2454	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2455	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2456	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2457	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2459	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2019-2466	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-0008	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0012	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0030	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2020-0033	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0034	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0035	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0041	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0055	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0056	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2020-0077	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

BW

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

Extraction Date: 1/14/20 Analyst: Britany Wylie
Plate lot#: 190725 Plate Expiration: 1/25/2020

Mobile phase A: 10mM Amm Form 0.5M Ammonium Hydroxide **Mobile phase B:** 0.1% Formic Acid in MeOH Ethyl Acetate LC Methanol
Blank Blood Lot: 19H52275 **Blank Urine lot: 31319** **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
LCMS-QQQ ID: 69679

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.

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Urine hydrolysis pipette: 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer mix for at least five minutes ambient temperature.
Pipette **250 µL blood (calibrated pipette)** or 250 ul urine in wells of analytical (standards) plate. **Pipette ID: 1926134**
☒ 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes. *Shaker ID: 66759*
☒ 4. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 6. Transfer **300 µL of blood or urine+base** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) *Manifold ID: 66792*
☒ 8. Wait 5 minutes.
☒ 9. Add **900 µL ethyl acetate.**
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 12. Add **900 µL ethyl acetate.**
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. **Urine samples add 50 ul 1% HCl in MeOH** Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
☒ 16. Reconstitute in **100 µL 100% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Open quantitation software and create a new quantitation batch.
☒ 2. Make necessary changes to integration limits
☒ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater or 2-5 for discretionary range.
☒ 4. Did all QCs pass for each analyte? (If no is it described in comments?)
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *rt shift noticed after several injections, acquisition method was updated and the previously ran samples were reinjected without further issues.* Methamphetamine not evaluated in the original injection due to an interfering peak.

1-21-20 Samples were reconstituted and re-injected for the evaluation of Methamphetamine only. Data for the reinjection has been added to the end of the central data packet BW

BW

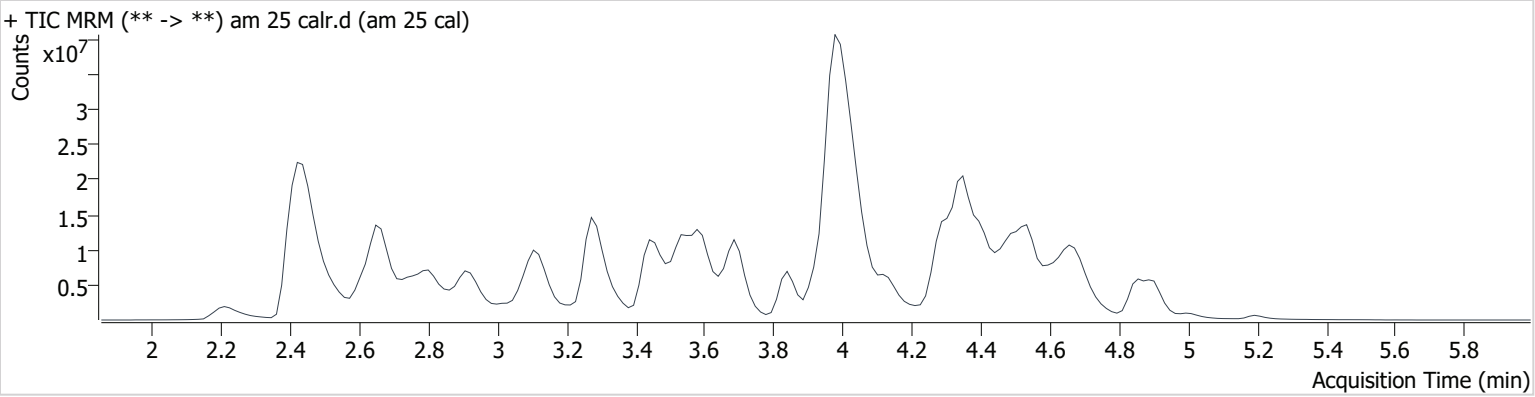
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\mds 11420.batch.bin
Calibration Last Update 1/15/2020 9:29:06 AM

Instrument 69679
Type Cal
Acq. Method am 25 short2.m
Sample Position P2-A1
Injection Volume 2.5
Acq. Date-Time 1/14/2020 9:36:12 PM
Sample Info.

Data File am 25 calr.d
Sample am 25 cal
Operator Britany Wylie
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.057	42356	9823.4	8962.3	1377768	10.000
7-aminoclonazepam	3.291	340599	2866.8	43575.6	1705729	10.000
7-aminoflunitrazepam	3.520	1225797	368097.2	2003.1	8294708	10.000
Acetyl Fentanyl	4.288	338548	68.5	112.8	21800233	10.000
Acetyl Norfentanyl	2.641	198323	456.6	805.0	11598140	10.000
a-hydroxyalprazolam	4.303	100082	21639.5	12878.2	542779	10.000
alpha-hydroxymidazolam	4.395	1314825	490.0	3629.4	8920019	10.000
alpha-PVP	3.681	2793237	1531.3	521.5	12817168	10.000
Alprazolam	4.414	915031	1065.8	851.7	3328429	10.000
Amitriptyline	4.634	1345004	240.4	259.6	6489882	10.000
Amphetamine	2.661	2148974	711.9	338.4	6595353	10.000
Benzoylecgonine	3.046	568822	667.7	353.7	2704989	10.000
Buprenorphine	5.206	295440	401.0	24060.7	1479021	10.000
Bupropion	3.990	1660046	613.3	642.7	10350855	10.000
Carbamazepine	4.005	2536360	2825.4	706.6	14184056	10.000
Carisoprodol	3.988	427256	717.9	59.4	2075325	10.000
Chlordiazepoxide	4.554	210877	33.6	5977.0	8597932	10.000
Chlorpheniramine	3.954	8318	11.2	3754.9	38938669	10.000
Citalopram	4.087	2274678	343.9	346852.8	10512584	10.000
Clonazepam	4.242	315013	131072.1	191.4	533152	10.000
Cocaine	3.610	3623591	1405.0	272.4	19794615	10.000
Codeine	2.999	341654	115.0	511.2	1687615	10.000
Cyclobenzaprine	4.511	2575361	836.8	62.1	10939561	10.000
Desipramine	4.420	4147796	1226041.9	1716.1	21215887	10.000
Dextromethorphan	4.156	1857890	190090.2	237081.4	9278733	10.000
Dextrorphan	3.324	1684150	1514.0	518.7	9194013	10.000
Diazepam	4.679	601739	1135.1	4017.6	2816140	10.000
Dihydrocodeine	2.709	808522	574.0	274.1	4487206	10.000
Diphenhydramine	4.050	6515707	1133.5	1251.2	38938669	10.000
Doxepin	4.325	1500122	246.7	117.5	8470442	10.000
Doxylamine	3.553	6647747	1917.9	1209.5	31216711	10.000
EDDP	3.984	4860421	2496.5	6625.2	29674313	10.000
Estazolam	4.323	1902739	4923.7	1189.8	5156933	10.000
Etizolam	4.425	111720	35767.2	100827.8	5156933	10.000

BW

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Fentanyl	4.518	255299	145.4	36576.3	15184241	10.000
Flunitrazepam	4.367	966609	354409.7	151233.5	213418	10.000
Fluoxetine	4.305	2840086	1365.7	67277.2	13140686	10.000
Flurazepam	4.517	2063175	2001.1	2290.2	213418	10.000
Hydrocodone	3.258	667030	68.8	96.1	5972301	10.000
Hydromorphone	2.545	1062902	563.9	259.1	3753013	10.000
Imipramine	4.556	4533834	1229.2	801.9	18385188	10.000
Ketamine	3.959	1410156	1083.4	70.8	10221849	10.000
Lamotrigine	3.385	211028	414.6	79351.5	8740527	10.000
Levamisole	3.145	2128212	693498.4	81.5	19794615	10.000
Lorazepam	4.211	51108	477.9	∞	3328429	10.000
Maprotiline	4.449	380988	45.4	91.9	6489882	10.000
MDA	2.826	2101485	1241.1	459.9	9785584	10.000
MDEA	3.099	3230674	763.2	763.8	15666697	10.000
MDMA	2.947	3602953	411992.5	524.7	2361078	10.000
Meperidine	3.678	1891943	823.8	511.4	8740527	10.000
Meprobamate	3.374	356881	130053.6	74.4	1758599	10.000
Methadone	4.367	4197241	11833.3	462.3	22344900	10.000
~~Methamphetamine~~	~~2.797~~	~~8315077~~	~~2639.7~~	~~2533.3~~	~~11978191~~	~~10.000~~ NE
Methocarbamol	3.265	160813	542.5	154116.2	8740527	10.000
Methylphenidate	3.465	5959708	3566.0	42146.3	29476415	10.000
Metoprolol	3.278	381869	459.3	868.8	8740527	10.000
Midazolam	4.596	419332	1693.8	128187.3	6335482	10.000
Mirtazapine	4.497	2044743	44801.6	1228.0	8740527	10.000
Mitragynine	4.531	278007	68449.1	166679.4	8470442	10.000
Morphine	2.320	296518	2797.0	285.5	187218	10.000
Norbuprenorphine	3.884	52160	9676.6	34.6	284019	10.000
Nordiazepam	4.512	323950	428949.9	74201.0	1135746	10.000
Norfentanyl	3.143	3817261	14435.7	882.9	18008561	10.000
Norhydrocodone	2.818	47360	537.9	25.2	1588835	10.000
Normeperidine	3.480	2140534	659.8	1761.1	8508085	10.000
Noroxycodone	2.710	864239	∞	523.3	3139334	10.000
Nortriptyline	4.467	1549926	476416.0	450.5	4113544	10.000
O-desmethyl-tramadol	2.669	4831972	3413.8	220.6	27381858	10.000
Olanzapine	4.166	636639	122.0	52.8	130900	10.000
Oxazepam	4.308	185203	255.0	31.4	1123013	10.000
Oxycodone	2.921	1702502	449.0	241.9	8533356	10.000
Oxymorphone	2.239	952030	55.8	180.5	4311489	10.000
Paroxetine	4.472	345154	184.6	1118.2	6994484	10.000
Phenazepam	4.456	438444	256910.0	97369.2	1726831	10.000
Phencyclidine	3.865	3690124	5225.5	571.6	18559492	10.000
Phentermine	2.934	1644452	85.8	13.5	11549368	10.000
Phenytoin	3.895	19126	11728.9	14.4	130900	10.000
Promethazine	4.679	5919611	602.1	247.2	24002463	10.000
Pseudoephedrine	2.430	35712303	9806.0	1931.9	106497839	10.000
Quetiapine	4.687	3014693	699898.2	361663.0	4417266	10.000
Sertraline	4.707	1454174	590.5	261850.4	6994484	10.000
Sufentanil	4.901	219643	67031.8	9608.5	13353667	10.000
Tapentadol	3.282	2467889	3692.8	916.8	14047460	10.000
Temazepam	4.477	914698	1270.8	50.1	4549962	10.000
Tramadol	3.293	4638302	1430.6	86.6	24828157	10.000
Trazodone	4.871	3019797	1926.2	728083.8	14483638	10.000
Venlafaxine	3.705	4524833	4308.6	481.4	24463263	10.000
Zaleplon	4.136	1032904	206575.8	297629.9	3053031	10.000
Zolpidem	4.352	4834949	2376528.4	1764.8	25946418	10.000
Zopiclone	4.362	387750	65713.4	97426.6	2246614	10.000

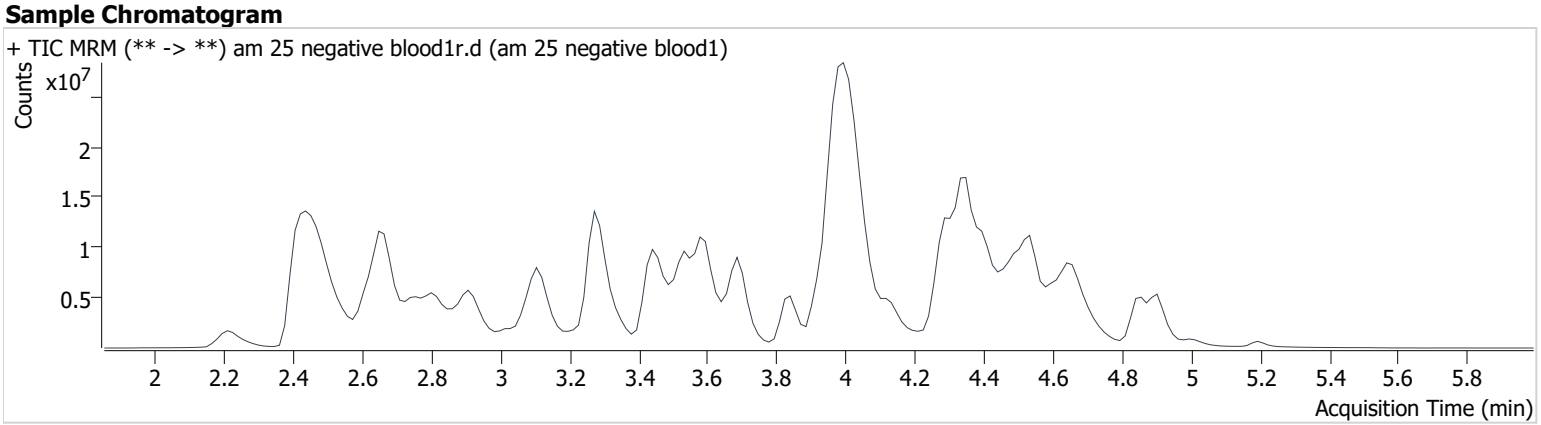
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\mds 11420.batch.bin
Calibration Last Update 1/15/2020 9:29:06 AM

Instrument	69679	**Data File**	am 25 negative blood1r.d
Type	Sample	**Sample**	am 25 negative blood1
Acq. Method	am 25 short2.m	**Operator**	Britany Wylie
Sample Position	P2-C1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/14/2020 9:42:54 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
~~Methamphetamine~~	~~2.797~~	~~6617087~~	~~79.9~~	~~126.0~~	~~10184524~~	~~9.359~~ <10

Methamphetamine not evaluated in this injection 1/21/20 BW

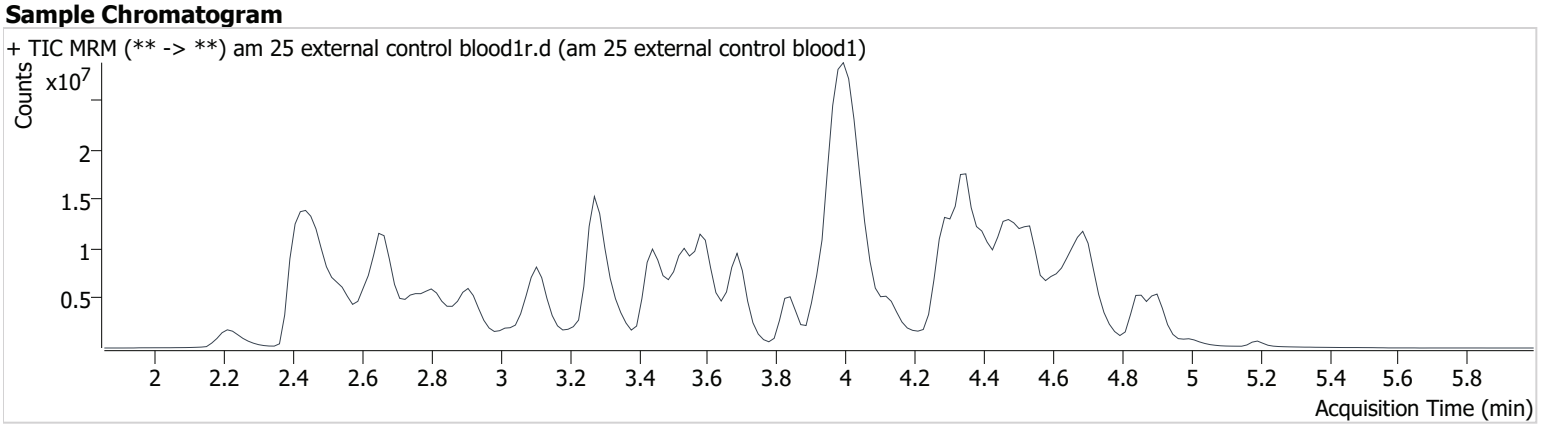
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\mds 11420.batch.bin
Calibration Last Update 1/15/2020 9:29:06 AM

Instrument	69679	**Data File**	am 25 external control blood1r.d
Type	Sample	**Sample**	am 25 external control blood1
Acq. Method	am 25 short2.m	**Operator**	Britany Wylie
Sample Position	P2-D1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/14/2020 9:49:35 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Hydrocodone	3.258	6856547	1774.7	214.5	6305886	97.354
Hydromorphone	2.545	8031915	519.7	1756.0	3512987	80.729
~~Methamphetamine~~	~~2.797~~	~~7970781~~	~~90.4~~	~~1154.6~~	~~11594226~~	~~9.903~~ <10
Nortriptyline	4.467	13182852	1616494.7	3072.4	4336702	80.678
Sertraline	4.707	14797449	2469081.7	1901.6	8215324	86.637

Methamphetamine not evaluated in this injection 1-21-20 baw
BW

BW

Toxicology AM method 25 blood 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 5/20/19: Exp: 5/20/20 lot 52020 by baw

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 (52020) in 9900 ul neg blood

ppd 5/20/19, exp 3/1/20 lot 52019 neg blood lot 19A207P3 by BAW

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

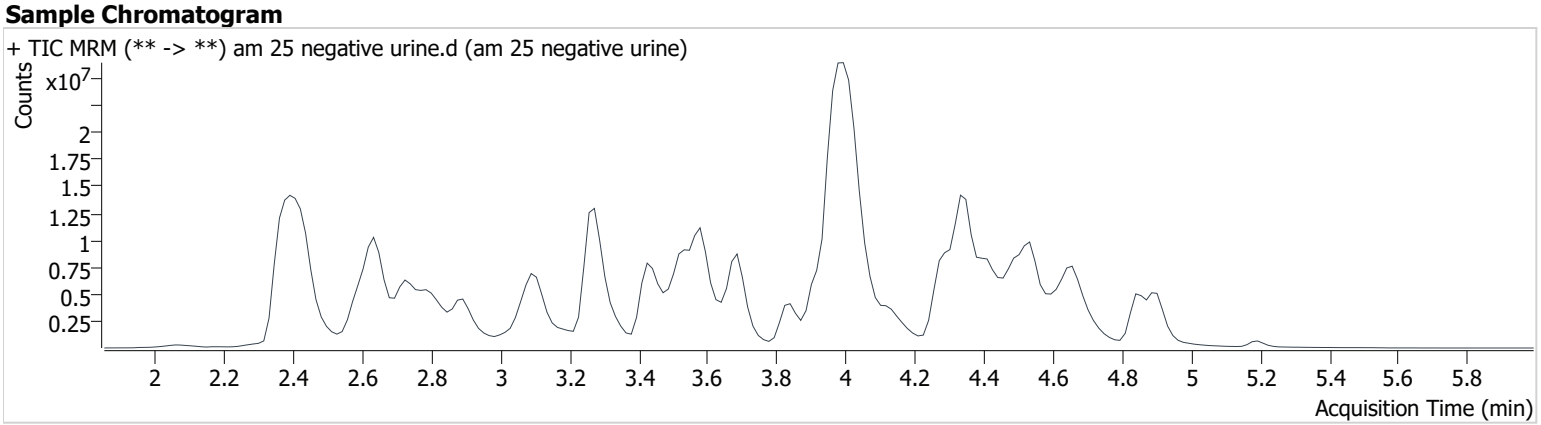
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\mds 11420.batch.bin
Calibration Last Update 1/15/2020 9:29:06 AM

Instrument	69679	**Data File**	am 25 negative urine.d
Type	Sample	**Sample**	am 25 negative urine
Acq. Method	am 25 short2.m	**Operator**	Britany Wylie
Sample Position	P2-F3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/14/2020 11:50:11 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
~~Methamphetamine~~	~~2.782~~	~~6847268~~	~~1562.5~~	~~2043.0~~	~~18302393~~	~~5.389~~ <10

Methamphetamine not evaluated in this injection 1-21-20
BW

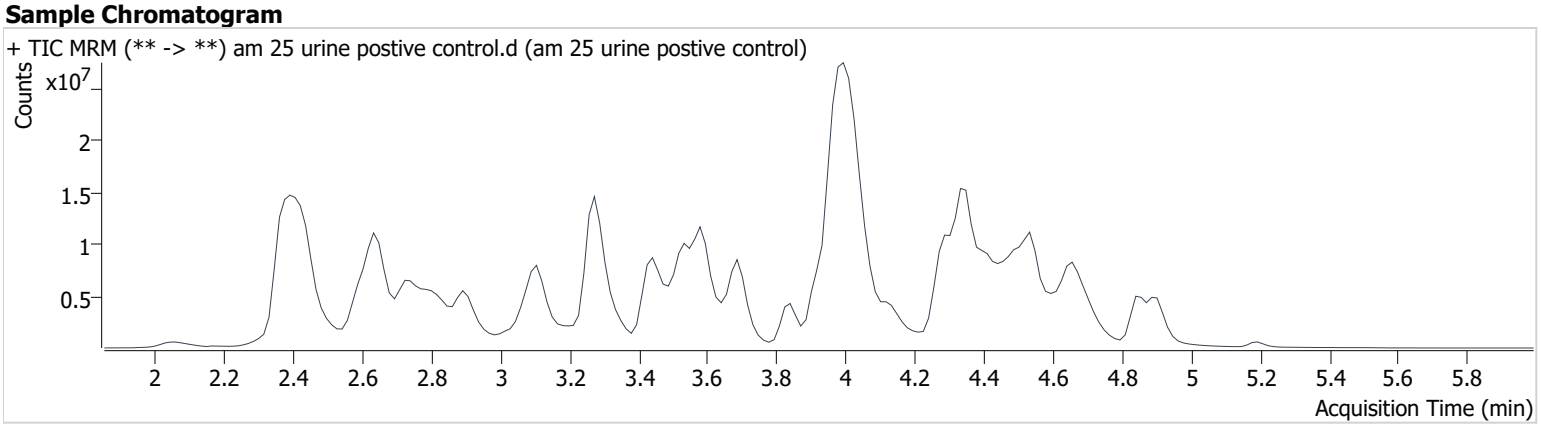
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\mds 11420.batch.bin
Calibration Last Update 1/15/2020 9:29:06 AM

Instrument	69679	**Data File**	am 25 urine postive control.d
Type	Sample	**Sample**	am 25 urine postive control
Acq. Method	am 25 short2.m	**Operator**	Britany Wylie
Sample Position	P2-G3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/14/2020 11:56:53 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Hydrocodone	3.243	4662085	2268.1	152.4	6087732	68.568
Hydromorphone	2.439	1982302	62.2	766.4	3945567	17.740
Methamphetamine	2.782	7294831	89.2	1316.3	18935093	5.550 <10
Morphine	2.350	120510	1826.2	1.2 **Low**	202789	3.752 <10
Nortriptyline	4.467	4313217	968.5	2331.7	4481934	25.541
Sertraline	4.707	2110994	1966.6	1266.7	6328655	16.044

Methamphetamine not evaluated in this injection 1-21-20
BW

BW

Toxicology AM method 25 urine external control prep

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

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

ppd 5/20/19: Exp: 5/20/20 lot 52020 by baw

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 30 ul working solution (52020) in 270 ul negative urine

ppd 10/7/19, exp 3/1/20 lot 10719 negative urine lot 8919 by AMN

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

BW

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

Extraction Date: 1/14/2020 Analyst: Britany Wylie
Plate lot#: 190716 Plate Expiration: 01/16/2020

Mobile phase A: 10mM Ammonium Formate 0.1% Formic Acid in Water **Mobile phase B:** 0.1% Formic acid in MeOH MTBE Hexane
Blank Blood Lot: 19H52275 **Urine Blank:** 31319 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)
LCMS-QQQ ID: 69679

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.

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Urine hydrolysis: add 1.5 ml urine to blank plate, add 250 ul 1N KOH mix and incubate at 40 degrees for 15 minutes.
Pipette **1000 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: K52558g**
Pipette 1000 ul urine to analytical (standards) plate.
☒ 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes. *Shaker ID: 66759*
☒ 4. Pipette **500 µL 0.1% formic acid in blood** wells **500 ul saturated phosphate buffer in urine** wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 6. Transfer 8**00 µL of blood acid or urine acid** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
☒ 8. Wait 5 minutes.
☒ 9. Add **2.25 mL MTBE** (add in 3 increments of 750 µL).
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 12. Add **2.25 mL hexane** (add in 3 increments of 750 µL).
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 10-15 seconds. ***(12-15 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 µL 100% LCMS MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
☒ 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 +/-0.100 min whichever is greater of the average retention time of the calibrators.
☒ 4. Did all QCs pass for each analyte? Yes
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *urine case samples and external control did not inject. Acquisition method for injection height was adjusted and the samples were reinjected without any further issues.*

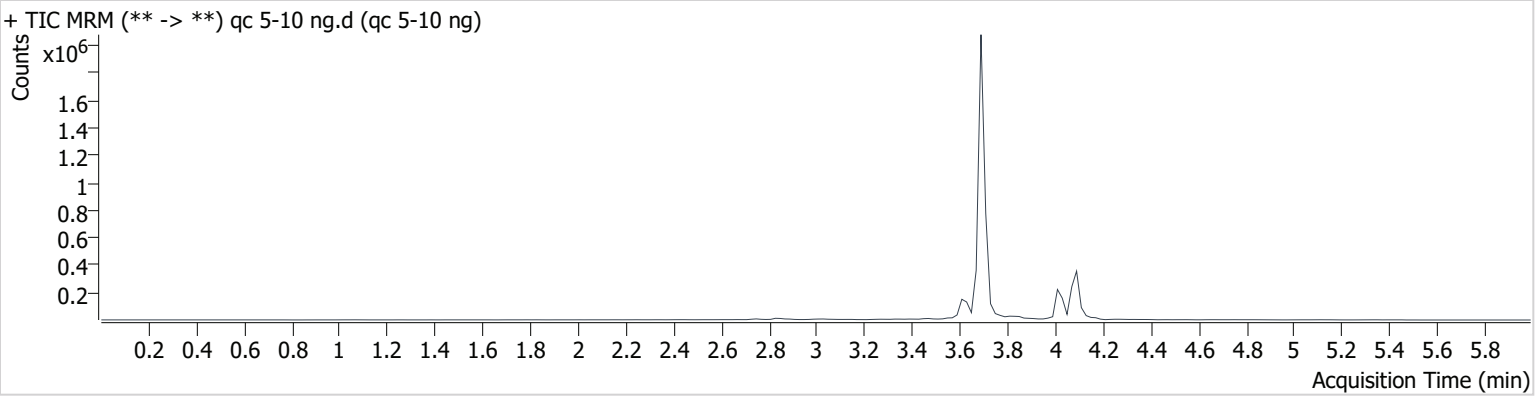
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	qc 5-10 ng.d
Type	QC	**Sample**	qc 5-10 ng
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 3:24:35 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.100	49899	745683	4.494	ng/ml
THC-COOH	3.630	57632	306476	13.858	ng/ml
THC-OH	3.696	28444	3782043	4.386	ng/ml

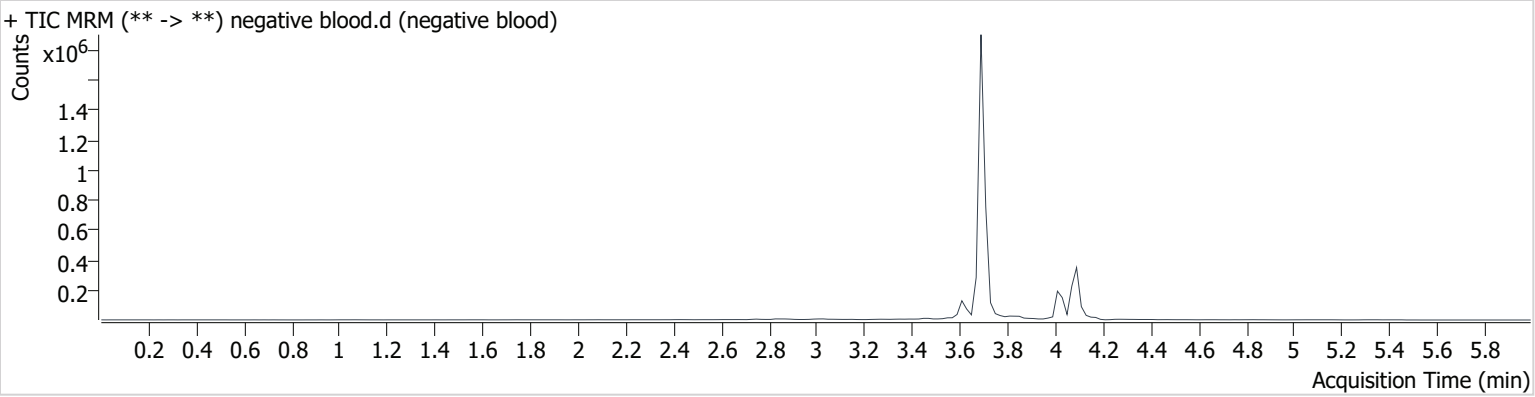
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 3:31:13 PM		
Sample Info.			

Sample Chromatogram



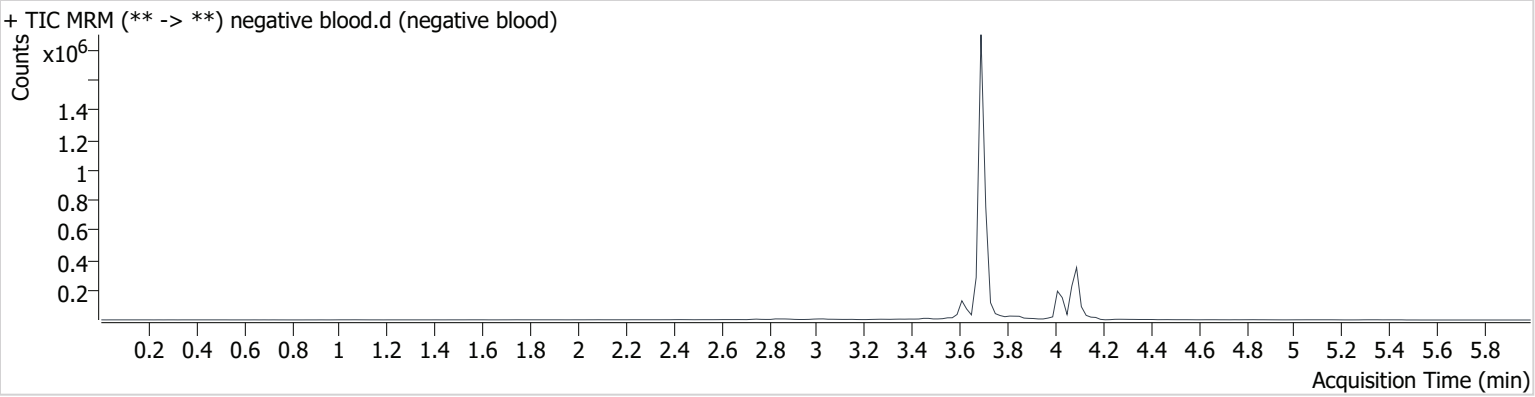
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 3:31:13 PM		
Sample Info.			

Sample Chromatogram



duplicate result report

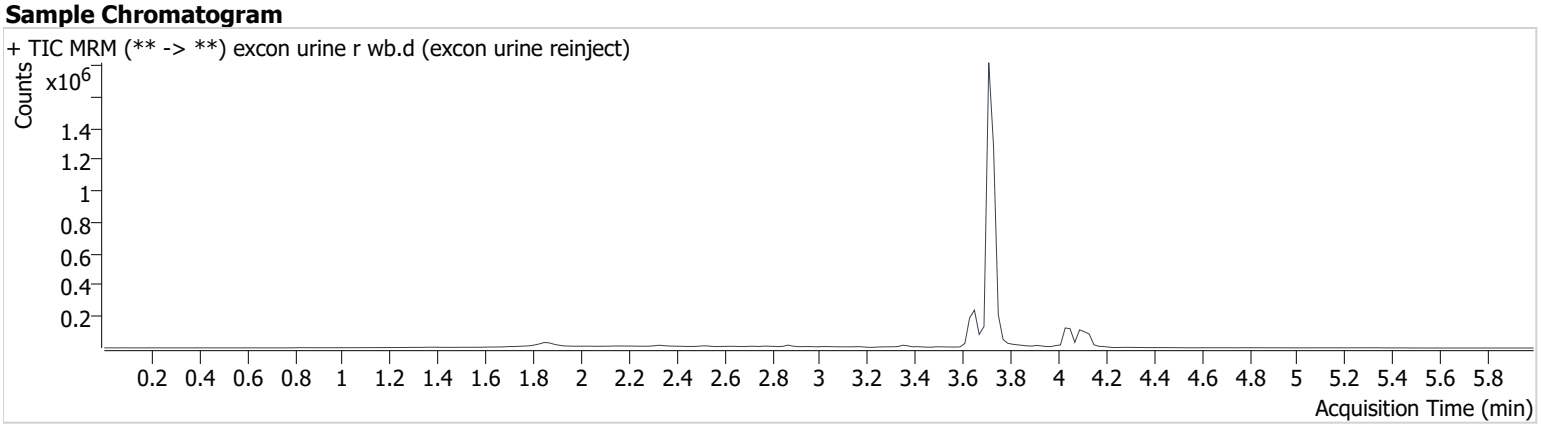
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	excon urine r wb.d
Type	Sample	**Sample**	excon urine reinject
Acq. Method	am 26 cann screen bottom.m	**Operator**	Britany Wylie
Sample Position	P3-D4	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 7:35:04 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	3.650	125824	293531	32.067 ng/ml

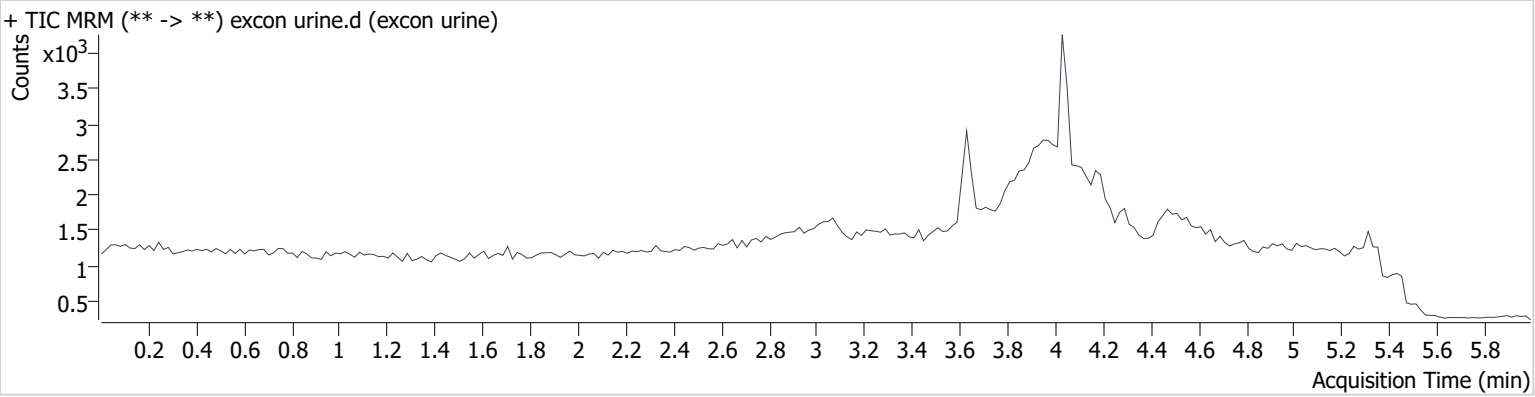
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	excon urine.d
Type	Sample	**Sample**	excon urine
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-D4	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 5:36:38 PM		
Sample Info.			

Sample Chromatogram



sample did not inject- was reinjected

BW

Toxicology AM method 27 external urine preparation information

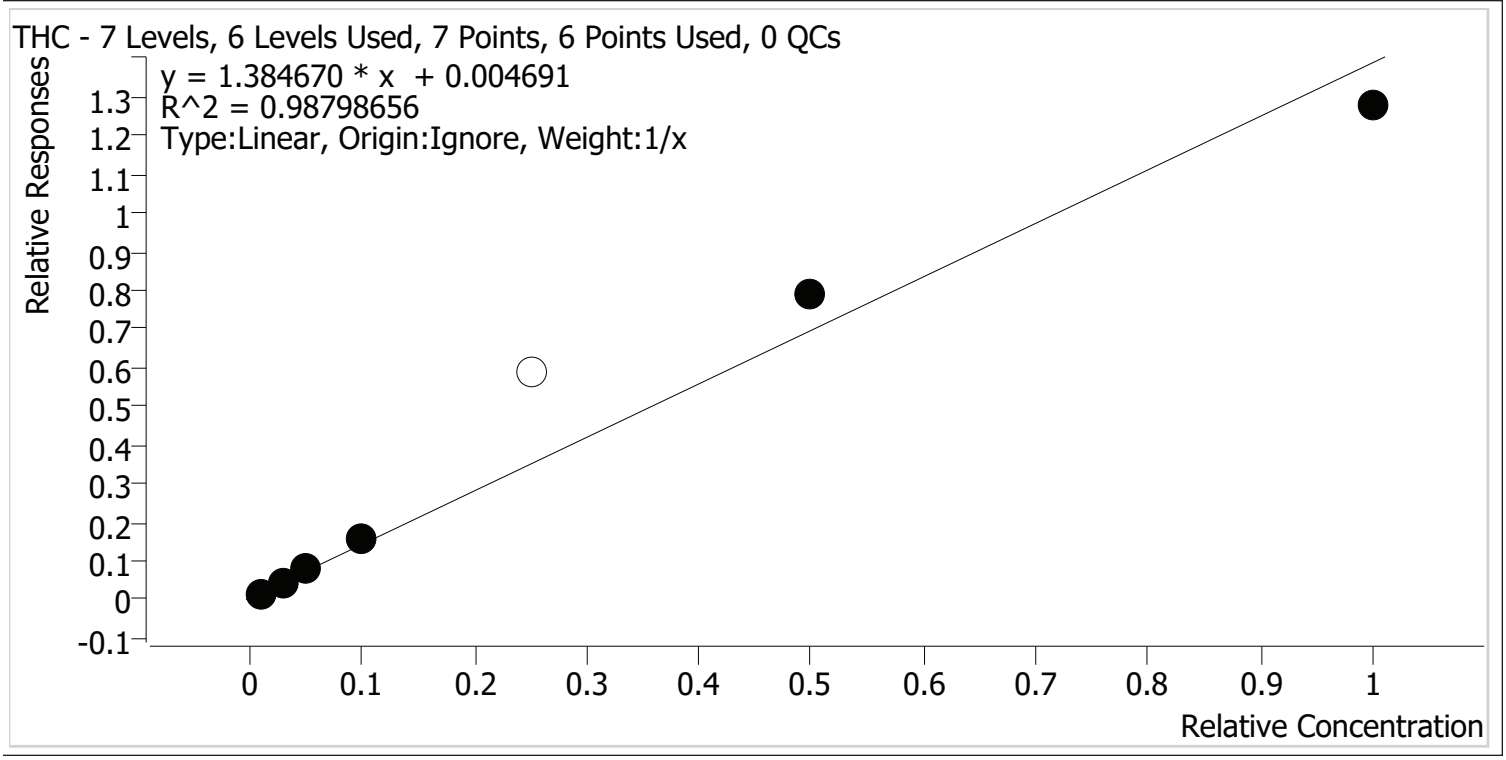
Stock solution 8 ul (100 ug/ml) C-THC in 9.992 mls urine
Ppd 11/8/19 Exp: 3/1/20 lot 3120 by AMN

Drug	lot	expiration	lot
C-THC	FE03121501	3/1/2020	3120

concentration ~ 80 ng/ml Carboxy THC

Compound Calibration Report

Batch results	D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Last Cal. Update	1/14/2020 8:57 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3

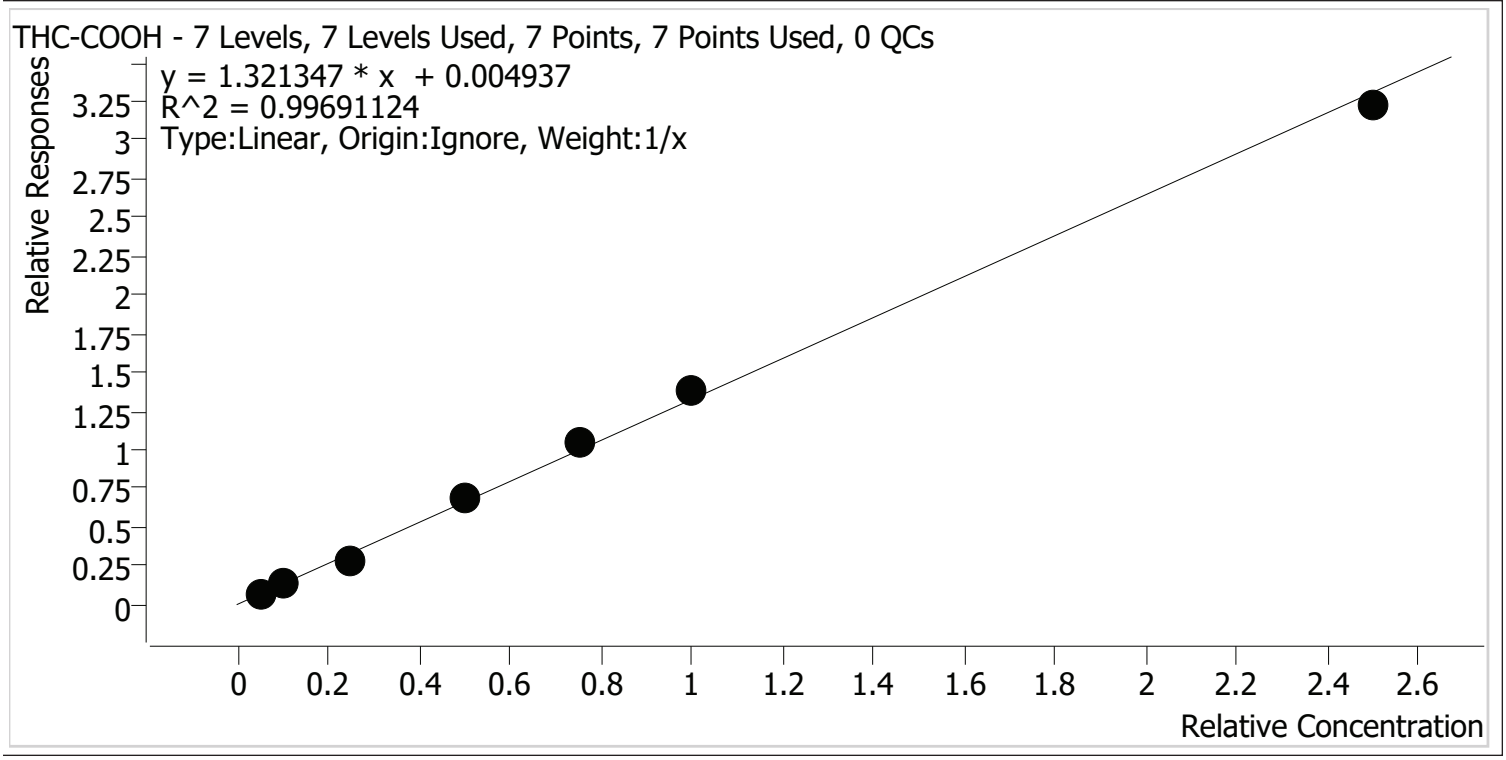


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal ~~7~~ check std 1ng	1	✓	1.0	0.8	79.0
cal ~~6~~ 2	2	✓	3.0	2.9	98.1
cal ~~5~~ 3	3	✓	5.0	5.2	104.7
cal 4	4	✓	10.0	11.3	112.5
cal ~~3~~ 5	5	×	25.0	42.3	169.1
cal ~~2~~ 6	6	✓	50.0	56.8	113.6
~~check std 1ng~~ cal 7	7	✓	100.0	92.0	92.0

cal level 5 excluded- top of secondary peak cut off

Compound Calibration Report

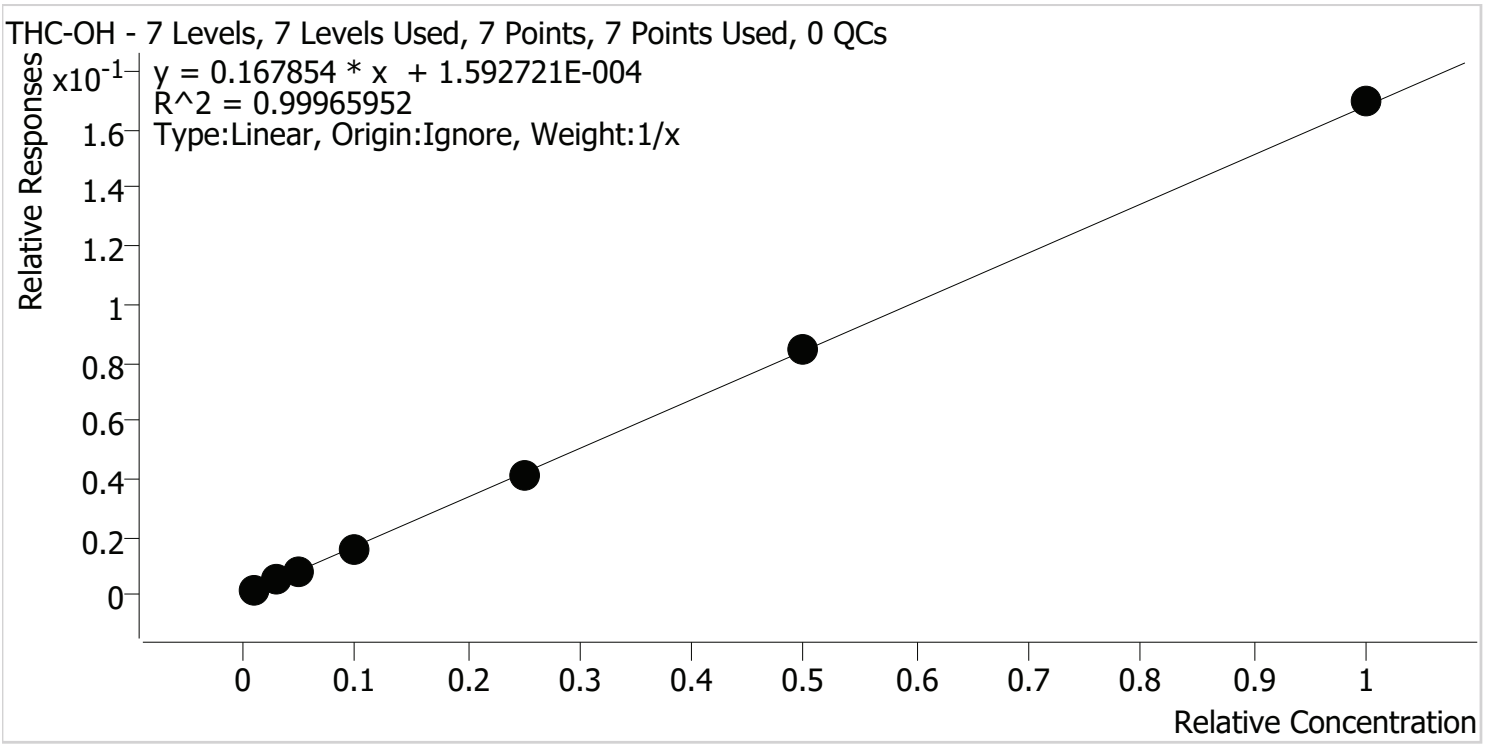
Batch results	D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Last Cal. Update	1/14/2020 8:57 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal ~~7~~ 1	1	✓	5.0	5.0	100.1
cal ~~6~~ 2	2	✓	10.0	10.4	103.7
cal ~~5~~ 3	3	✓	25.0	21.3	85.0
cal 4	4	✓	50.0	52.6	105.2
cal ~~3~~ 5	5	✓	75.0	78.9	105.2
cal ~~2~~ 6	6	✓	100.0	103.4	103.4
~~check std 1ng~~ cal 7	7	✓	250.0	243.4	97.4

Compound Calibration Report

Batch results	D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Last Cal. Update	1/14/2020 8:57 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal-~~7~~ 1	1	✓	1.0	1.1	112.2
cal-~~6~~ 2	2	✓	3.0	2.9	97.2
cal ~~5~~ 3	3	✓	5.0	4.7	94.0
cal 4	4	✓	10.0	9.7	96.9
cal ~~3~~ 5	5	✓	25.0	24.7	98.8
cal ~~2~~ 6	6	✓	50.0	50.0	100.0
~~check std 1ng~~ cal 7	7	✓	100.0	100.9	100.9

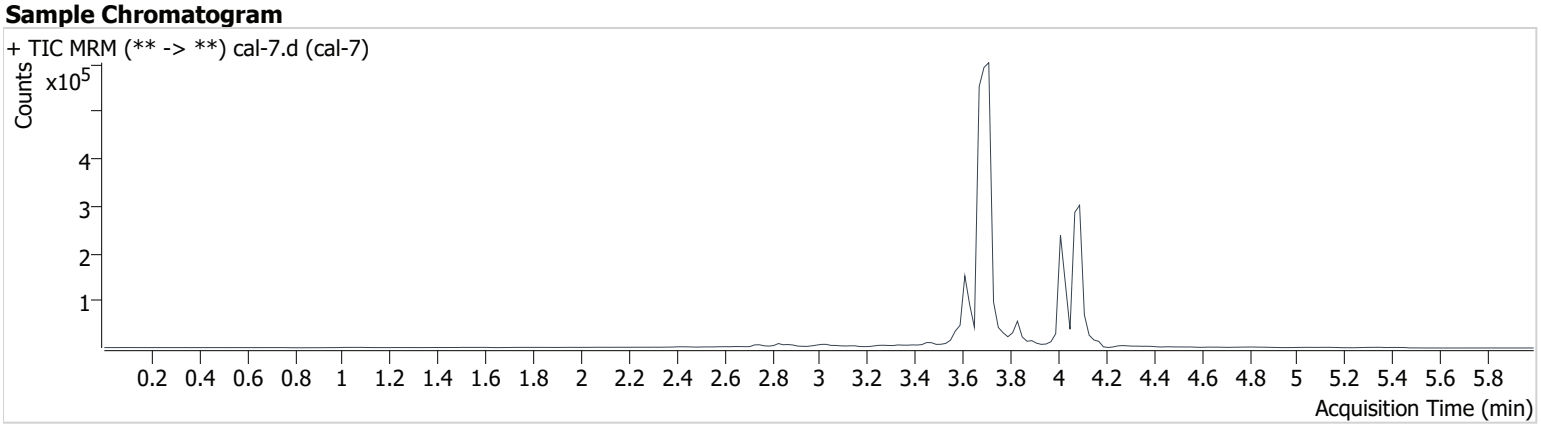
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	cal-7.d
Type	Cal	**Sample**	~~cal-7~~ check std 1ng
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 3:11:28 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	4.100	11835	757210	0.790	ng/ml	Low
THC-COOH	3.630	23448	330024	5.003	ng/ml	Low
THC-OH	3.716	4512	2208554	1.122	ng/ml	Low

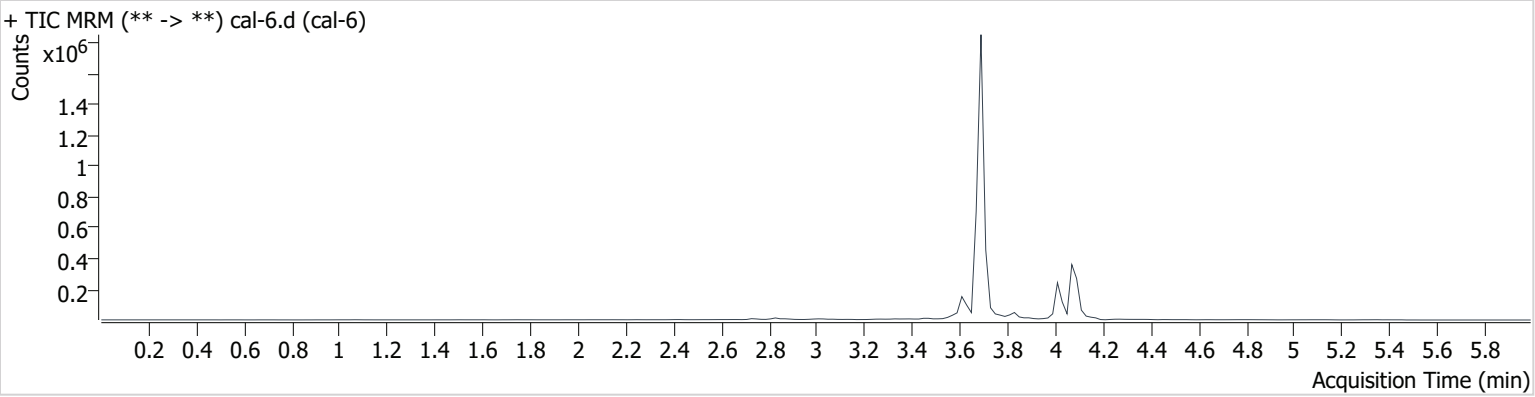
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	cal-6.d
Type	Cal	**Sample**	cal-6 2
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 3:04:51 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	4.080	35401	778722	2.944	ng/ml	Low
THC-COOH	3.630	42592	299946	10.373	ng/ml	
THC-OH	3.696	18546	3669733	2.916	ng/ml	Low

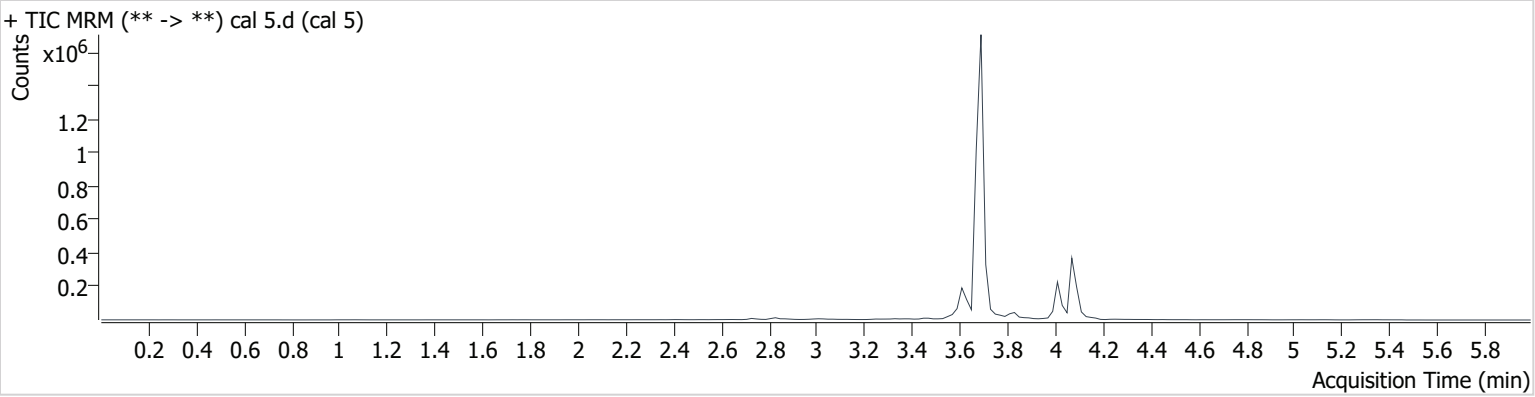
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	cal 5.d
Type	Cal	**Sample**	cal ~~5~~ 3
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 2:58:15 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.080	52185	676060	5.236	ng/ml
THC-COOH	3.610	85530	299319	21.252	ng/ml
THC-OH	3.696	28246	3509668	4.700	ng/ml

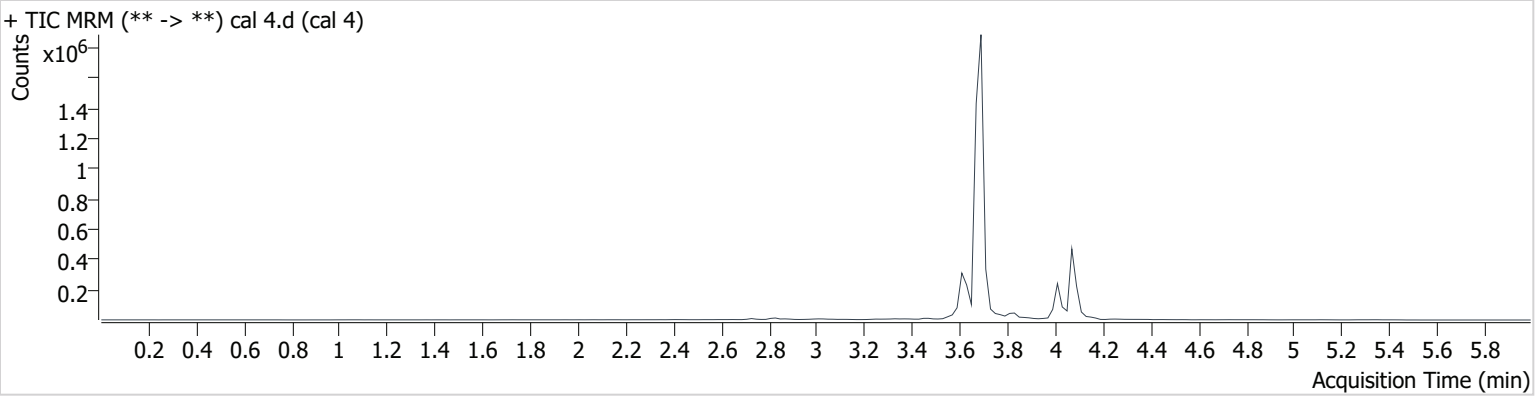
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	cal 4.d
Type	Cal	**Sample**	cal 4
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 2:51:39 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.080	123404	768727	11.255	ng/ml
THC-COOH	3.610	216981	310067	52.587	ng/ml
THC-OH	3.696	64535	3927976	9.693	ng/ml

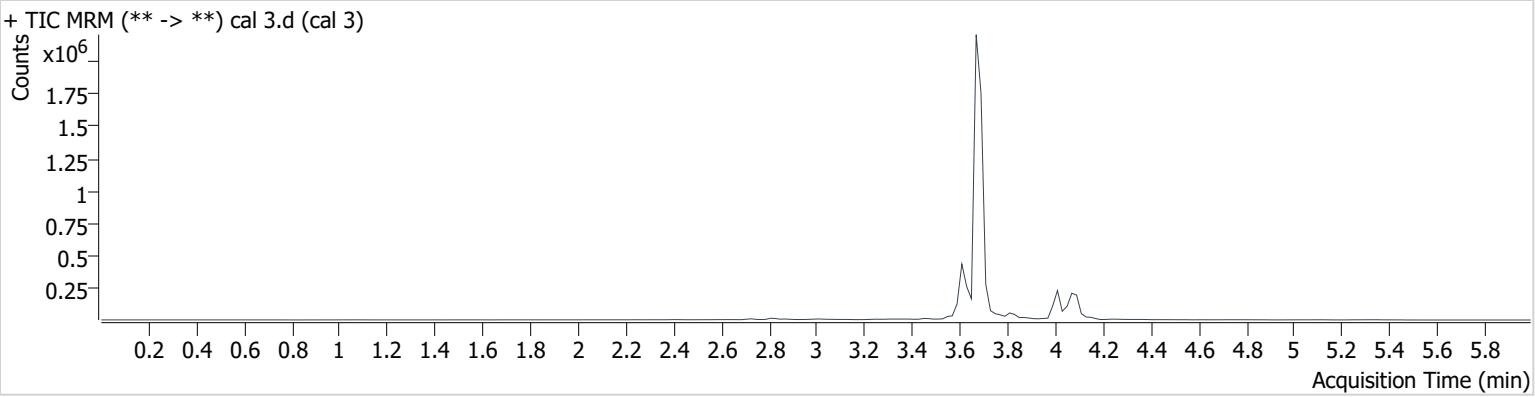
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	cal 3.d
Type	Cal	**Sample**	cal 3 5
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 2:45:03 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.080	212325	359898	42.268	ng/ml
THC-COOH	3.610	314332	300067	78.905	ng/ml
THC-OH	3.676	161052	3870647	24.694	ng/ml

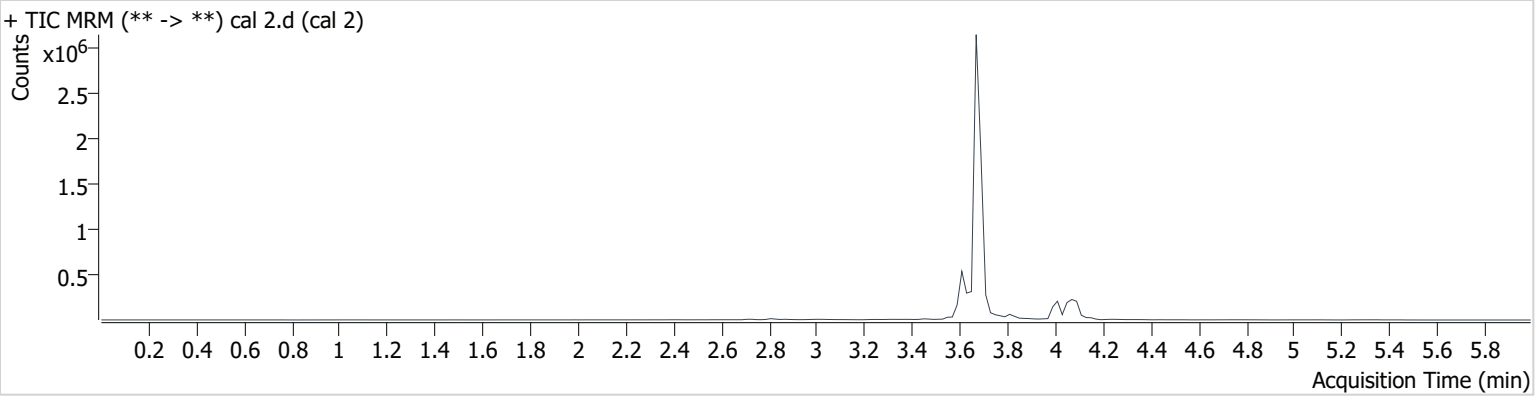
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	cal 2.d
Type	Cal	**Sample**	cal 2 6
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 2:38:27 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.100	290267	366738	56.822	ng/ml
THC-COOH	3.610	409576	298573	103.443	ng/ml
THC-OH	3.676	317082	3771418	49.993	ng/ml

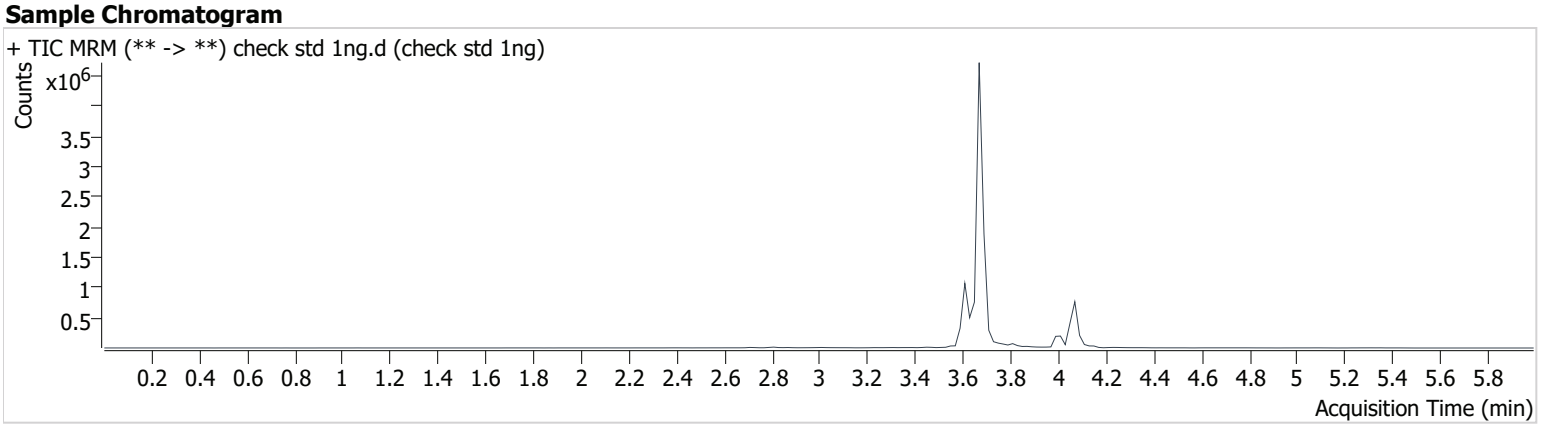
BW

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020\QuantResults\am 26 11420.batch.bin
Calibration Last Update 1/14/2020 8:57:41 PM

Instrument	69679	**Data File**	check std 1ng.d
Type	Cal	**Sample**	~~check std 1ng~~ cal 7
Acq. Method	am 26 cann screen.m	**Operator**	Britany Wylie
Sample Position	P3-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/14/2020 2:31:50 PM		
Sample Info.			

Sample Chromatogram



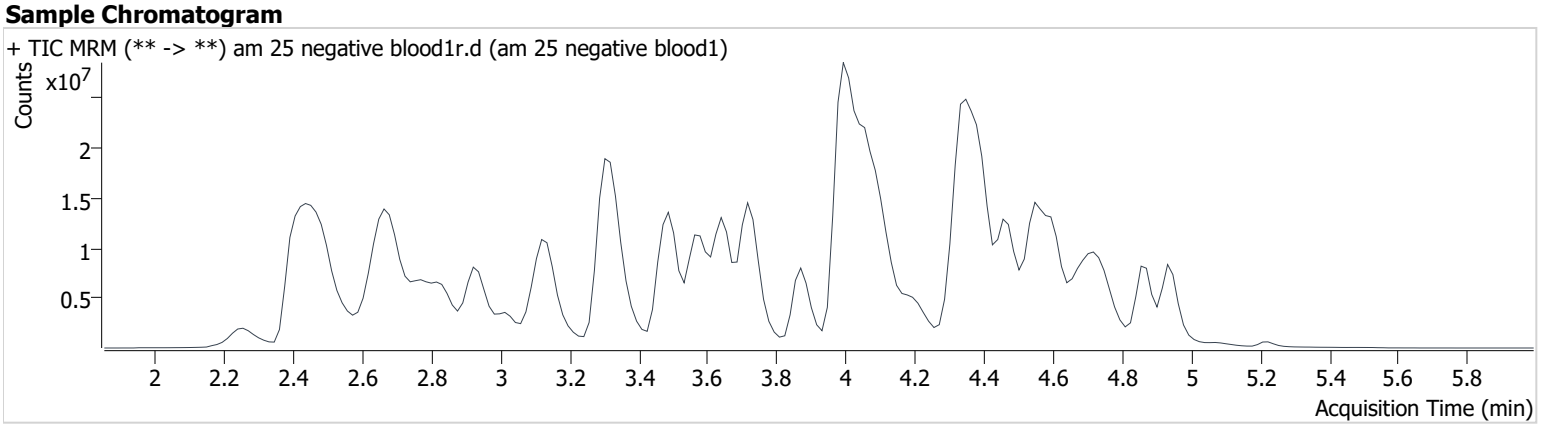
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	4.080	813093	636250	91.954	ng/ml
THC-COOH	3.610	866249	268888	243.438	ng/ml
THC-OH	3.676	593806	3503419	100.882	ng/ml

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020r\QuantResults\1-14-20 mds reinject.batch.bin
Calibration Last Update 1/21/2020 6:22:36 PM

Instrument	69679	**Data File**	am 25 negative blood1r.d
Type	Sample	**Sample**	am 25 negative blood1
Acq. Method	am 25 short5ul.m	**Operator**	Britany Wylie
Sample Position	P2-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/21/2020 1:52:39 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.828	6009242	∞	∞	16728306	5.991<10

1-21-20 samples reconstitued and reinejected- Methamphetamine only evaluated in this reinjection. Interferring peak was noted on original injections

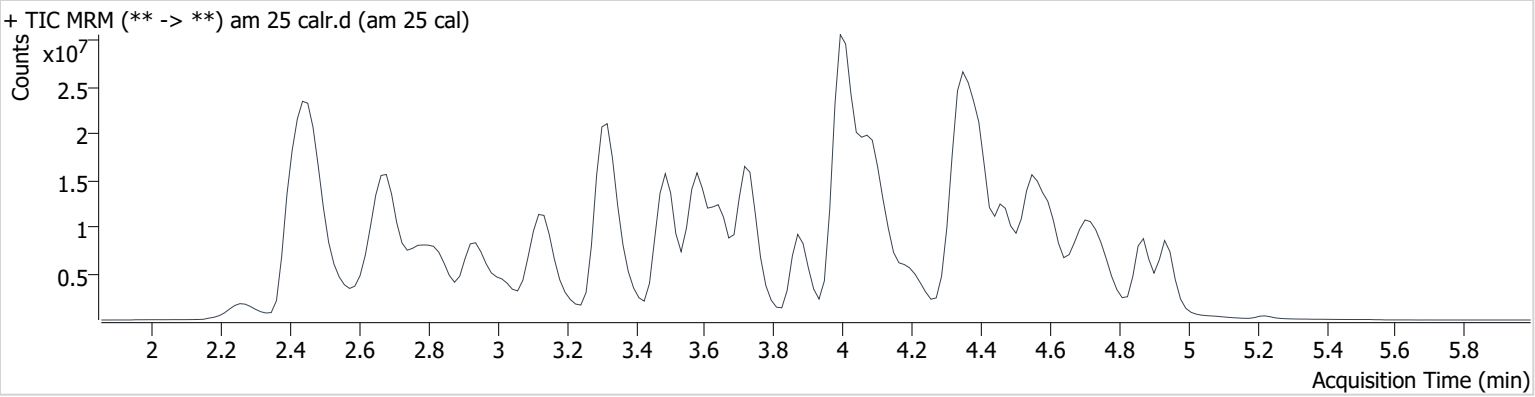
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020r\QuantResults\1-14-20 mds reinject.batch.bin
Calibration Last Update 1/21/2020 6:22:36 PM

Instrument	69679	**Data File**	am 25 calr.d
Type	Cal	**Sample**	am 25 cal
Acq. Method	am 25 short5ul.m	**Operator**	Britany Wylie
Sample Position	P2-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/21/2020 1:45:55 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.812	10346475	∞	∞	17255374	10.000

1-21-20 samples reconstitued and reinejected- Methamphetamine only evaluated in this reinjection. Interferring peak was noted on original injections

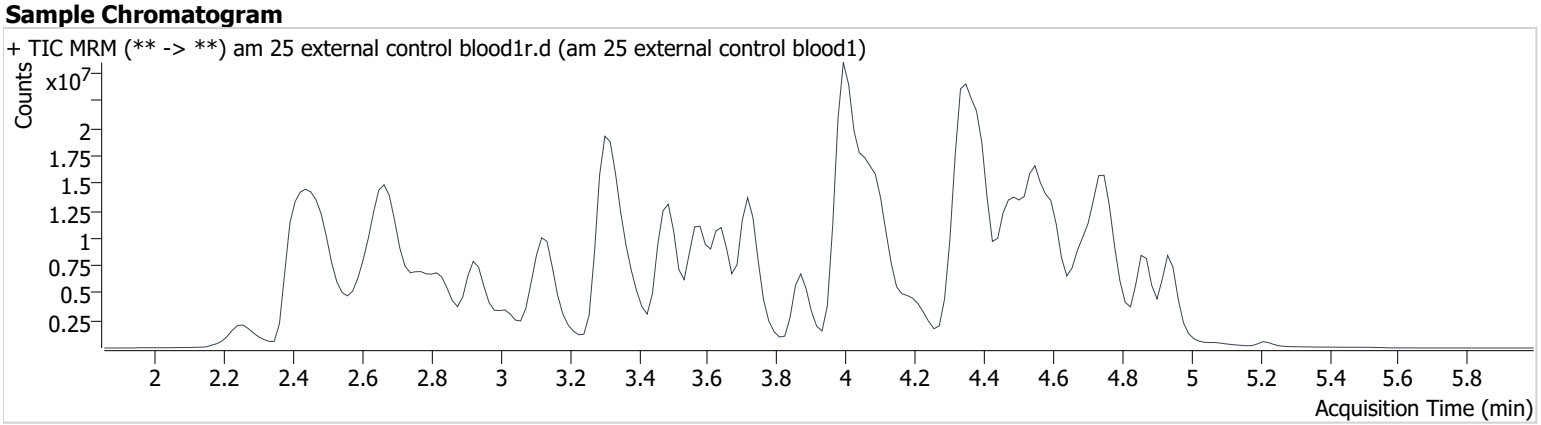
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020r\QuantResults\1-14-20 mds reinject.batch.bin
Calibration Last Update 1/21/2020 6:22:36 PM

Instrument	69679	**Data File**	am 25 external control blood1r.d
Type	Sample	**Sample**	am 25 external control blood1
Acq. Method	am 25 short5ul.m	**Operator**	Britany Wylie
Sample Position	P2-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/21/2020 1:59:23 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.812	6714066	187.7	∞	16242140	6.894 <10

1-21-20 samples reconstituted and reinejected- Methamphetamine only evaluated in this reinjection. Interferring peak was noted on original injections

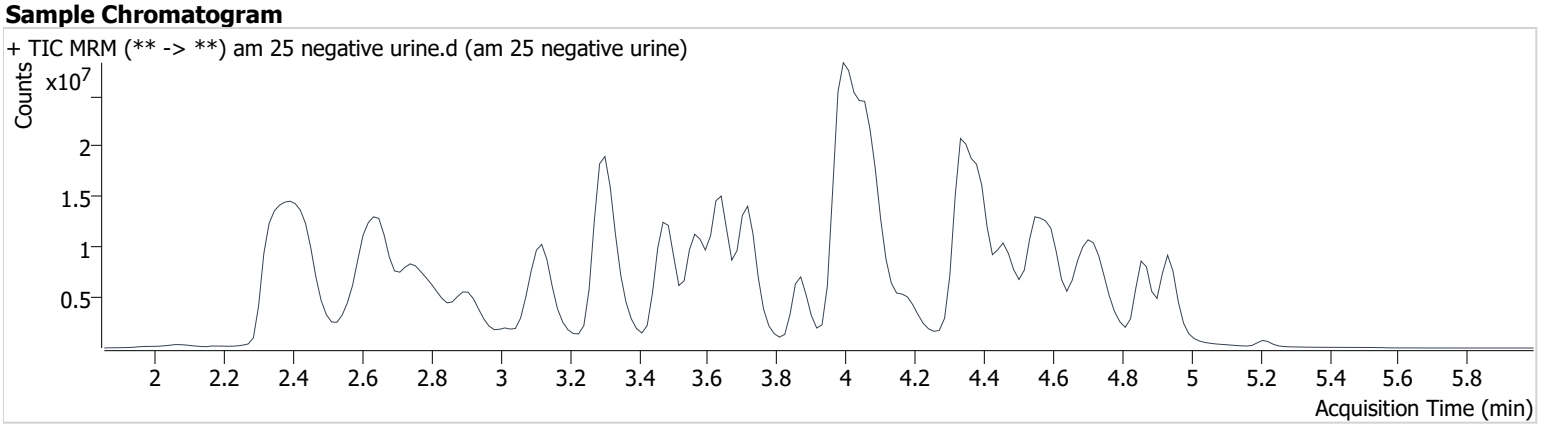
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020r\QuantResults\1-14-20 mds reinject.batch.bin
Calibration Last Update 1/21/2020 6:22:36 PM

Instrument	69679	**Data File**	am 25 negative urine.d
Type	Sample	**Sample**	am 25 negative urine
Acq. Method	am 25 short5ul.m	**Operator**	Britany Wylie
Sample Position	P2-F3	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/21/2020 4:00:12 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.782	6488901	∞	∞	29310646	3.692 < 10

1-21-20 samples reconstitued and reinejected- Methamphetamine only evaluated in this reinjection. Interferring peak was noted on original injections

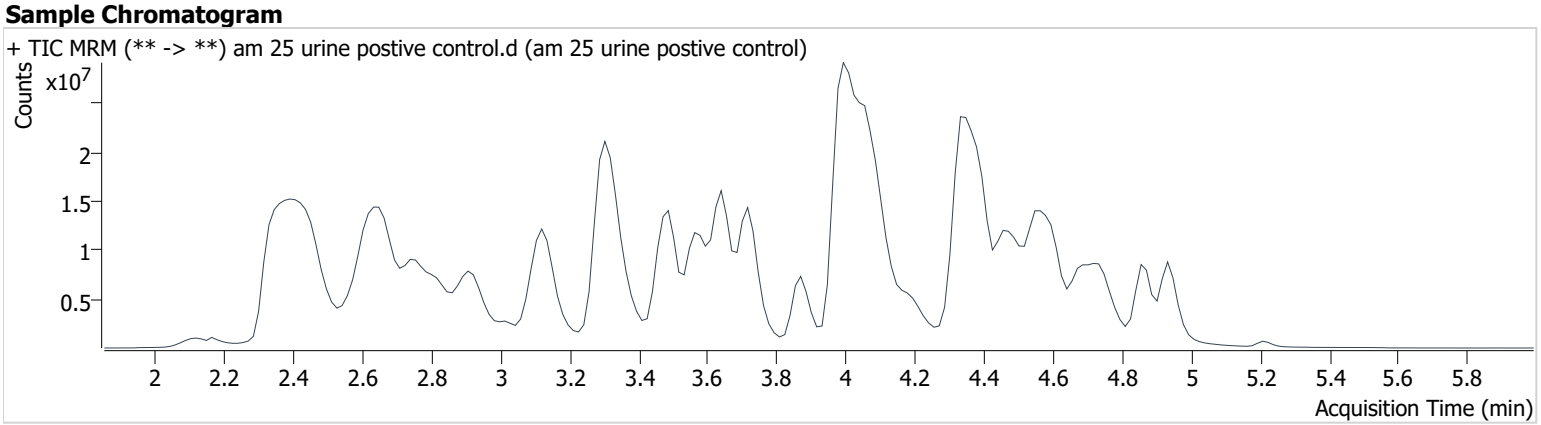
BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 1-14-2020r\QuantResults\1-14-20 mds reinject.batch.bin
Calibration Last Update 1/21/2020 6:22:36 PM

Instrument	69679	**Data File**	am 25 urine postive control.d
Type	Sample	**Sample**	am 25 urine postive control
Acq. Method	am 25 short5ul.m	**Operator**	Britany Wylie
Sample Position	P2-G3	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/21/2020 4:06:53 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.797	7809536	∞	∞	31383876	4.150<10

1-21-20 samples reconstitued and reinejected- Methamphetamine only evaluated in this reinjection. Interferring peak was noted on original injections

BW