REVIEWED
By Tamara Salazar at 11:01 am, Dec 07, 2022

12/5/2022

REVIEWED
By Britany Wylie at 10:27 am, Dec 09, 2022

Worklist: 6176

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2022-2571	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2586	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2598	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2601	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2603	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2606	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2022-2632	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2646	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2647	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2650	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2022-2664	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2022-2674	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2699	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2022-2700	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 12/05/22 Analyst: Anne Nord
Plate lot#: 220805 Plate retest date: 02/05/23

Mobile phase A: 10mM Ammonium Formate **Mobile phase B:** 0.1% Formic Acid in MeOH
0.5M Ammonium Hydroxide Ethyl Acetate LC 20% Methanol
Blank Blood Lot: 22B52016-1 **Blank Urine lot:** 7722 **Column**: Agilent Phenyl Hexyl (4.6x50mm, 2.7um)
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: 390993**
☒ 3. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 4. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 5. Transfer **300 µL of blood or urine+base** mixture to corresponding wells of SLE+ plate.
☒ 6. 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*
☒ 7. Wait 5 minutes.
☒ 8. Add **900 µL ethyl acetate.**
☒ 9. Wait 5 minutes.
☒ 10. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 11. Add **900 µL ethyl acetate.**
☒ 12. Wait 5 minutes.
☒ 13. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 14. Remove plate containing eluate. add 50 ul 1% HCl in MeOH Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
☒ 15. Reconstitute in **100 µL 20% LC MeOH** in LC Water 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:

	1	2	3	4	5	6	7	8	9	10	11	12
A	cal 1	2601-1										2650-1
B		2603-4										
C	negative blood	2632-1										
D	2699-1	2646-1										
E	2571-2	2647-1										2664-1
F	2586-1	2700-1										2606-1
G	2598-1	negative urine										
H	2674-1	Positive control urine										

C2022-____-_

plate position 2

Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendydramine, methamphetamine, alprazolam, , morphine
Stock solution 1mg/ml 50 ul each in 4800 ul MeOH (VWR 21050767)

ppd 7/7/22: Exp: 7/7/23 lot 7722 by AMN

Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
alprazolam	FE06102008	6/1/2025
Diphendydramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

AM 25/28 control 500 ul working solution (7722) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 7/7/22, exp 7/7/23 lot u7722 negative urine 21522 by AMN

AM 25/28 Blood Control: 50ul working solution (7722) in 4950 ul neg blood (100ng/mL Expected concentration)

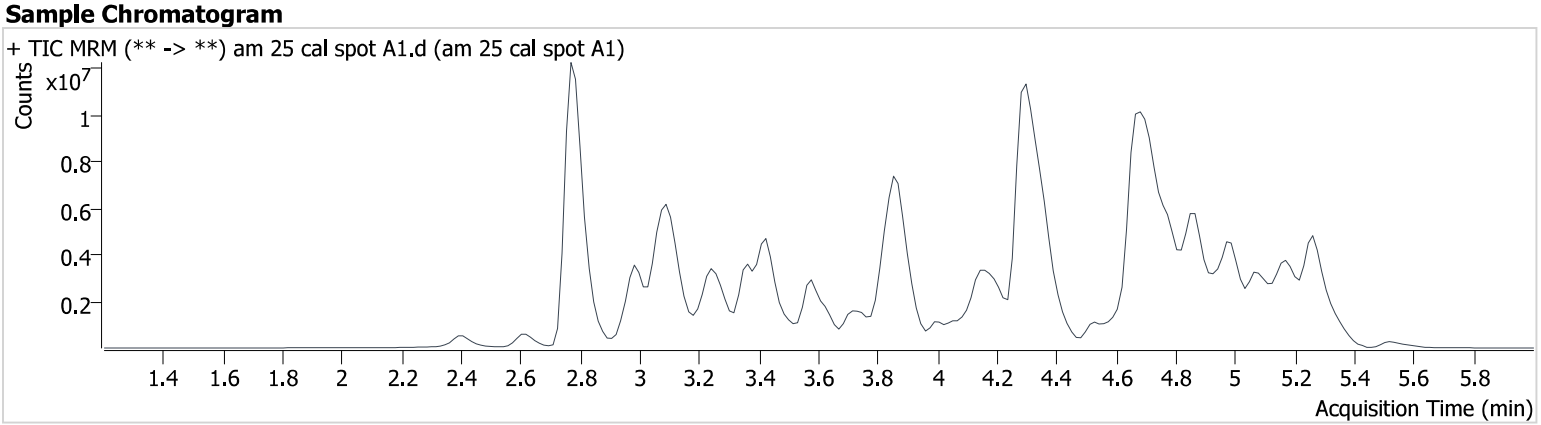
ppp 7/7/22, exp 7/7/23 lot b7722 neg blood 22B52016-3 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\mds.batch.bin
Calibration Last Update 12/5/2022 3:16:06 PM

Instrument	69679	**Data File**	am 25 cal spot A1.d
Type	Cal	**Sample**	am 25 cal spot A1
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-A1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/5/2022 12:12:48 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.878	1582916	1048.1	156.5	4187040	10.000
6-MAM	3.149	30441	16059.0	30488.5	715113	10.000
7-aminoclonazepam	3.643	456084	258.6	488.3	2226609	10.000
7-aminoflunitrazepam	3.874	653092	1366.7	704.7	2226609	10.000
9-Hydroxyrisperidone	4.357	2856303	54831.5	349.2	2226609	10.000
Acetyl Fentanyl	4.439	226028	81.7	35291.0	9262608	10.000
Acetyl Norfentanyl	2.945	173639	222.8	155.1	9262608	10.000
a-hydroxyalprazolam	4.715	148891	∞	12862.9	2226609	10.000
alpha-hydroxymidazolam	4.775	1531933	914.4	739.6	2226609	10.000
alpha-PHP	4.170	1647799	1065.4	562.0	4600818	10.000
alpha-PVP	3.834	2171230	5156.9	356.2	4600818	10.000
Alprazolam	4.794	1220847	462.7	470.3	4187040	10.000
Amitriptyline	4.859	1209258	533.8	3311.8	5070597	10.000
Amphetamine	3.010	2037259	1825.6	23616.7	4600818	10.000
Benzoylecgonine	3.474	81515	44.4	16.5	127493	10.000
Brompheniramine	4.347	59088	117078.2	5428.1	31844025	10.000
Buprenorphine	5.530	43799	15683.6	2166.8	1002396	10.000
Bupropion	4.202	2018833	2215.7	416.5	7959702	10.000
Carbamazepine	4.371	3052830	1708.1	368.5	61422	10.000
Carisoprodol	4.308	610493	461288.0	149.2	2251971	10.000
Chlordiazepoxide	4.980	491190	1281.9	1025.1	8312242	10.000
Chlorpheniramine	4.229	3265645	3015.0	180.7	3357406	10.000
Chlorpromazine	5.205	2348924	361258.4	1322.4	9319382	10.000
Citalopram	4.377	1577308	721.6	350.4	3357406	10.000
Clomimpramine	5.159	2590896	6916.7	2911.1	3357406	10.000
Clonazepam	4.655	474317	376.8	86978.8	8312242	10.000
Clonazolam	4.544	636796	201490.9	39423.1	8312242	10.000
clozapine	4.990	3279557	732010.7	627328.2	10633647	10.000
Cocaethylene	4.055	2050842	921947.8	594620.3	11229051	10.000
Cocaine	3.857	2661882	9714.2	130.7	11229051	10.000
Codeine	3.075	220017	16234.5	818.7	3181111	10.000
Cyclobenzaprine	4.737	2205702	1804.1	76.0	5070597	10.000
Desipramine	4.692	3248939	522967.1	1225.9	5070597	10.000
Dextromethorphan	4.352	1166547	2126.6	708.6	4847070	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrorphan	3.524	1359334	4892.4	148219.8	4847070	10.000
Diazepam	5.072	689186	418.1	1501.2	8312242	10.000
Dihydrocodeine	2.862	635833	387.6	301.9	31844025	10.000
Dimethyltriptamine	3.099	1205963	259.5	320.4	11045600	10.000
Diphenhydramine	4.308	4668016	2037.9	566.7	31844025	10.000
Doxepin	4.536	1179402	529.9	115.6	13647223	10.000
Doxylamine	3.829	4633005	570.5	2794.3	1074862	10.000
Duloxetine	4.628	55759	14557.7	427.3	4101502	10.000
EDDP	4.290	904955	606771.0	150598.8	1330847	10.000
Estazolam	4.704	2148324	912.2	850.9	8312242	10.000
Etizolam	4.790	117573	57870.8	118074.3	8312242	10.000
Fentanyl	4.683	192676	146.9	33589.0	9262608	10.000
Flualprazolam	4.623	436240	64490.8	1256.7	8312242	10.000
Flunitrazepam	4.763	1108217	6931.0	173879.6	8312242	10.000
Fluorofentanyl	4.743	196079	65105.3	241.7	9262608	10.000
Fluoxetine	4.579	2056317	581.1	29188.5	4101502	10.000
Flurazepam	4.742	1875715	188.8	68310.3	8312242	10.000
Hydrocodone	3.335	704166	179.6	164.2	3181111	10.000
Hydromorphone	2.607	565331	297.4	727.6	3181111	10.000
hydroxyzine	5.109	2777059	2156.8	3251.4	4847070	10.000
Imipramine	4.798	4238381	4718.7	3898.2	5070597	10.000
Ketamine	4.171	1701221	341.8	73.5	4847070	10.000
Lamotrigine	3.754	124249	108.0	49201.2	3357406	10.000
Levamisole	3.267	1259816	1661.6	364.6	4847070	10.000
Levetiracetam	2.628	542164	907.0	627.2	3357406	10.000
Lorazepam	4.609	192905	750.0	371.7	8312242	10.000
Maprotiline	4.691	450992	121.1	∞	5070597	10.000
MDA	3.130	1583903	1145.7	108.4	11045600	10.000
MDEA	3.374	2539935	438.8	405.1	11045600	10.000
MDMA	3.221	2657670	287.1	174.2	11045600	10.000
Meperidine	3.863	1241348	1455.9	583.2	4847070	10.000
Meprobamate	3.742	356575	1471.7	238.2	2251971	10.000
Methadone	4.656	3278580	10676.6	262.4	1330847	10.000
Methamphetamine	3.116	4270305	∞	∞	11045600	10.000
Methocarbamol	3.694	213285	709.9	551.7	31844025	10.000
Methylphenidate	3.725	4152247	727.7	437.5	4847070	10.000
Metoprolol	3.569	431634	1304.6	21449.4	4847070	10.000
Midazolam	4.944	426710	62656.9	75100.1	8312242	10.000
Mirtazapine	4.723	1866374	487772.3	21381.4	4847070	10.000
Mitragynine	4.756	277509	429.3	350731.1	4847070	10.000
Morphine	2.410	131845	167.3	106.7	108950	10.000
Norbuprenorphine	4.020	36027	21188.7	9739.6	1002396	10.000
Nordiazepam	4.921	568154	6338.5	262.2	8312242	10.000
Norfentanyl	3.449	3214328	417.1	353.0	12164526	10.000
Norhydrocodone	3.031	70733	144.6	166.7	3181111	10.000
norketamine	4.203	358067	101.1	343688.3	4847070	10.000
Normeperidine	3.772	1494617	643.0	232.1	3357406	10.000
Noroxycodone	2.984	842326	∞	362.5	5359097	10.000
Nortriptyline	4.723	1467316	399776.6	2058.0	5070597	10.000
O-desmethyl-tramadol	2.990	3731060	10367.3	191.0	3357406	10.000
O-Desmethylvenlafaxine	3.370	1032098	396.0	386.4	3357406	10.000
Olanzapine	4.286	1020043	237572.6	81040.5	61422	10.000
Oxazepam	4.720	1013894	2060.6	122.5	4187040	10.000
Oxycodone	3.119	1412029	467.2	363.4	5359097	10.000
Oxymorphone	2.391	782181	312.8	2492.3	108950	10.000
Paroxetine	4.638	352683	422.5	32096.9	4101502	10.000
Phenazepam	4.835	1036791	353930.6	125387.7	8312242	10.000
Phencyclidine	4.109	2434972	1136.3	208.0	4847070	10.000
Phentermine	3.269	786104	∞	91.4	8179450	10.000
Phenytoin	4.262	115457	92.0	71.8	61422	10.000

AM #25 Multi-Drug Screen Results

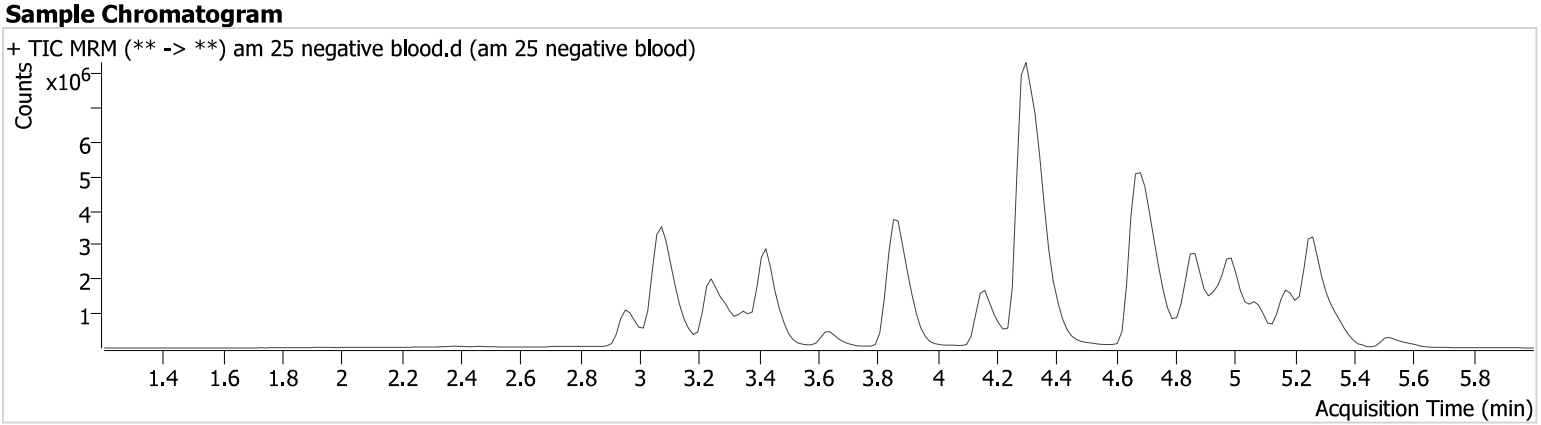
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
primidone	3.542	333230	734.1	76.6	5070597	10.000
Promethazine	4.874	4593531	4101.7	632.9	3357406	10.000
Pseudoephedrine	2.780	45399691	22996.8	8179.8	11045600	10.000
Quetiapine	5.063	3337119	1374429.0	375953.4	17219156	10.000
Risperidone	4.619	2771390	351.3	166.2	517732	10.000
Sertraline	4.963	1077977	∞	29709.2	4101502	10.000
Sufentanil	5.169	238259	48187.0	291.0	12164526	10.000
Tapentadol	3.588	2640848	2996.2	2507.2	3181111	10.000
Temazepam	4.872	2019357	2215.9	52.8	8312242	10.000
Topiramate	3.944	25751	12474.5	1968.7	87056	10.000
Tramadol	3.585	3652699	535.1	13.9	3357406	10.000
Trazodone	5.278	3611751	702351.9	513133.9	13647223	10.000
Venlafaxine	4.013	3332438	794.6	205.6	4101502	10.000
Zaleplon	4.519	926350	259995.8	264.4	17219156	10.000
Zolpidem	4.673	4513274	1511.2	116260.0	17219156	10.000
Zopiclone	4.757	257184	509961.3	234653.6	1074862	10.000

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\mds.batch.bin
Calibration Last Update	12/5/2022 3:16:06 PM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-C1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/5/2022 12:19:40 PM		
Sample Info.			

Sample Chromatogram

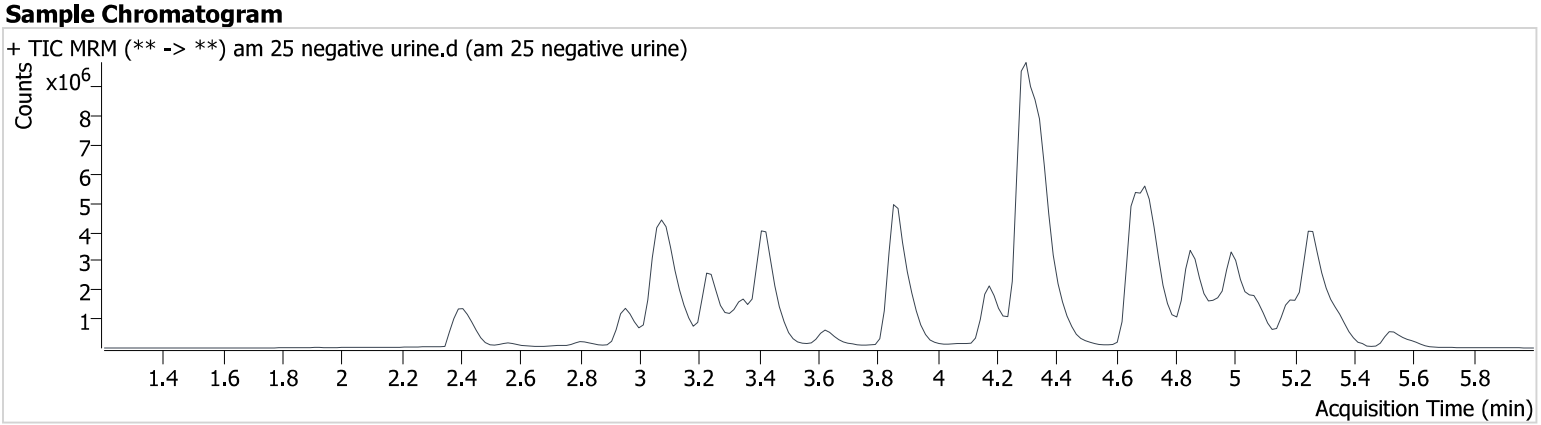


AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\mds.batch.bin
Calibration Last Update	12/5/2022 3:16:06 PM

Instrument	69679	**Data File**	am 25 negative urine.d
Type	Sample	**Sample**	am 25 negative urine
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-G2	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/5/2022 1:41:48 PM		
Sample Info.			

Sample Chromatogram

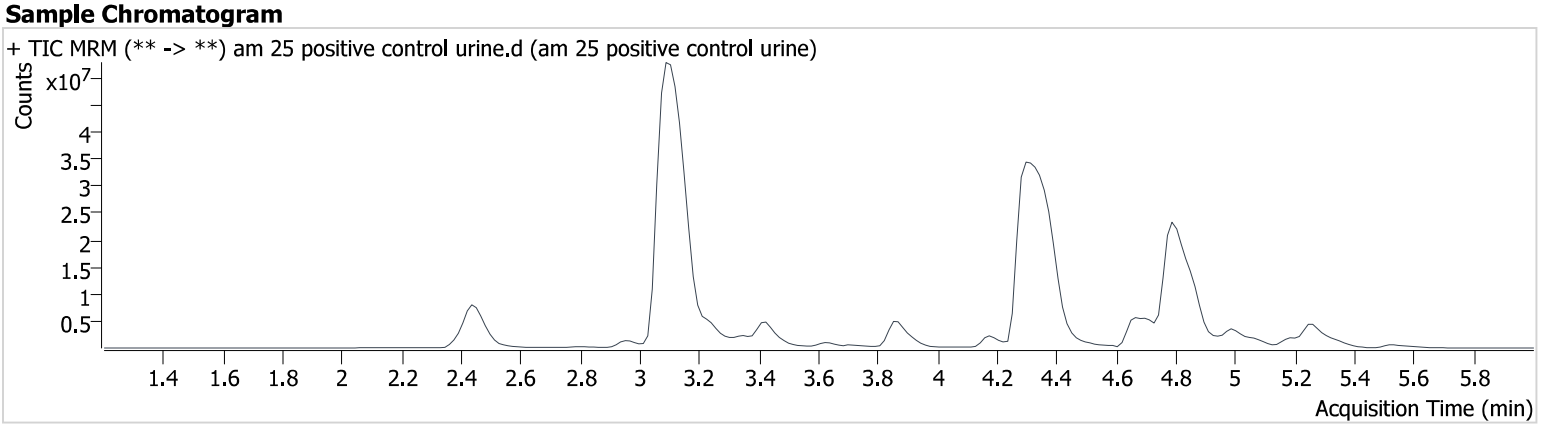


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\mds.batch.bin
Calibration Last Update 12/5/2022 3:16:06 PM

Instrument	69679	**Data File**	am 25 positive control urine.d
Type	Sample	**Sample**	am 25 positive control urine
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-H2	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/5/2022 1:48:38 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.794	67986262	∞	∞	2227937	1046.560
Diphenhydramine	4.323	134425984	33753.0	35131.8	30874439	297.016
Methamphetamine	3.116	110740012	∞	∞	11883986	241.031
Morphine	2.441	12092388	5698.2	2675.1	159397	626.897

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

Extraction Date: 12-05-22 Analyst: Anne Nord

Plate lot#: 220802 Plate retest date: 2/02/23

Mobile phase A: 10mM Ammonium Formate **Mobile phase B:** 0.1% Formic acid in MeOH
0.1% Formic Acid in Water MTBE Hexane
Blank Blood Lot: 22B52016-1 **Urine Blank:** 7722
Column: Agilent Phenyl Hexyl (4.6x50mm: 2.7 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: I41142J**
Pipette 1000 ul urine to analytical (standards) plate.
☒ 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 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:

	1	2	3	4	5	6
a	cal 1	Internal control urine	2632-1	2664-1		
b	cal 2	negative blood	2646-1 mixing, well clogged moved to B4	2646-1 SLE and injection		
c	cal 3	2571-2	2647-1			
d	cal 4	2586-1	2674-1			
e	Cal 5	2598-1	2699-1			
f	cal 6	2700-1	negative urine			
g	cal 7	2601-1	2606-1			
h	Internal control (blood)	2603-4	2650-1			

Plate position 3

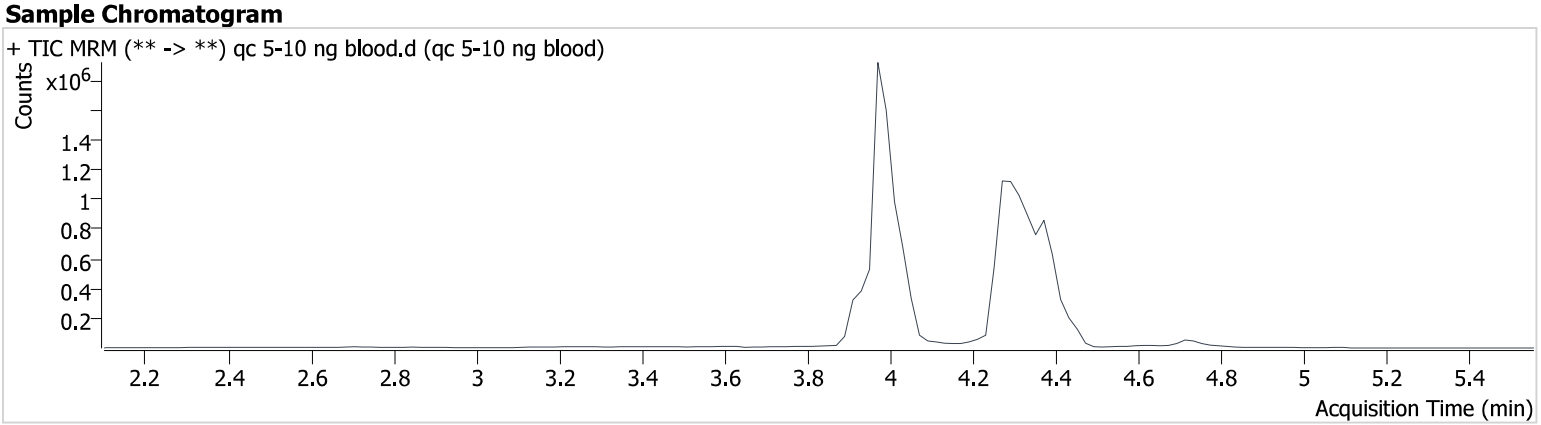
c2022-____-_

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	qc 5-10 ng blood.d
Type	QC	**Sample**	qc 5-10 ng blood
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:43:03 PM		
Sample Info.			

Sample Chromatogram



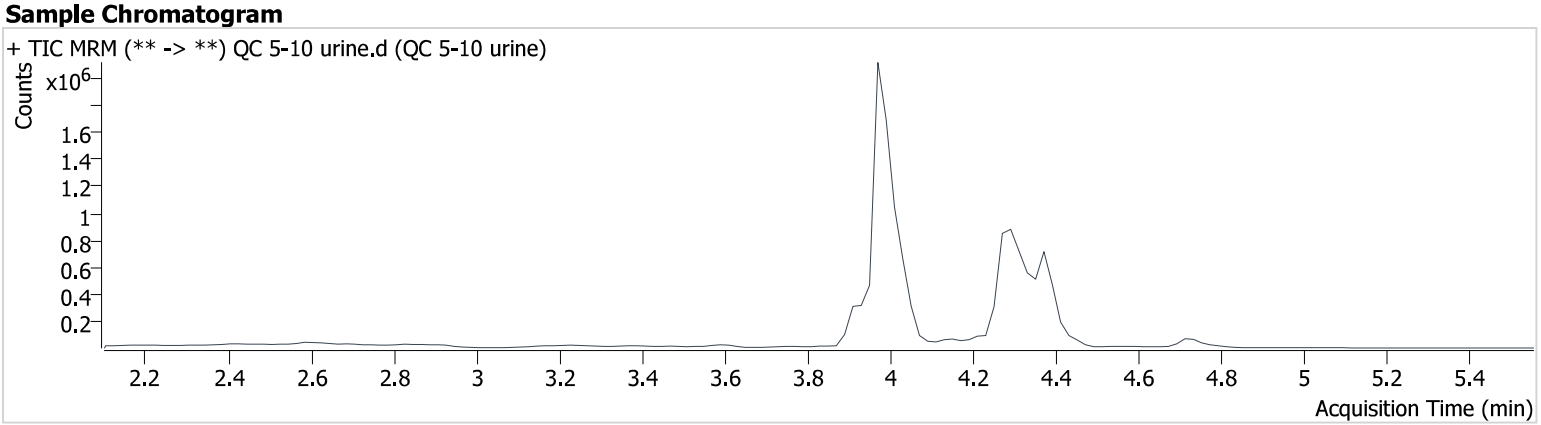
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	68599	1504451	5.050 ng/ml
THC-COOH	3.932	179928	909309	14.508 ng/ml
THC-OH	3.979	52321	6403314	4.711 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	QC 5-10 urine.d
Type	Sample	**Sample**	QC 5-10 urine
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:49:39 PM		
Sample Info.			

Sample Chromatogram



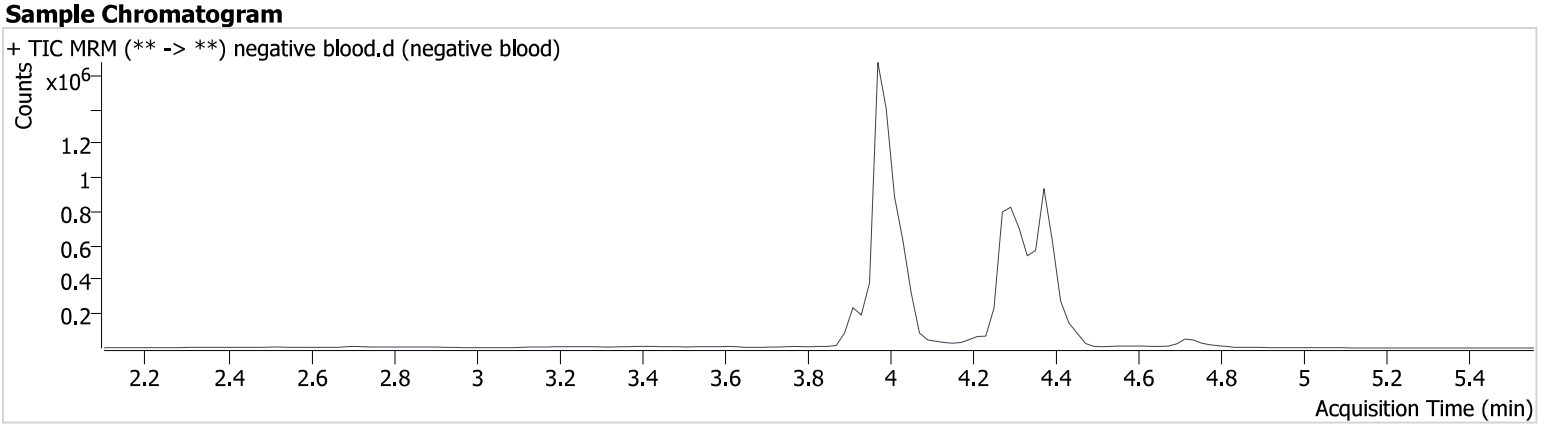
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	64606	1494802	4.799 ng/ml
THC-COOH	3.932	159823	837004	13.990 ng/ml
THC-OH	3.979	56526	6790649	4.796 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-B2	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:56:17 PM		
Sample Info.			

Sample Chromatogram

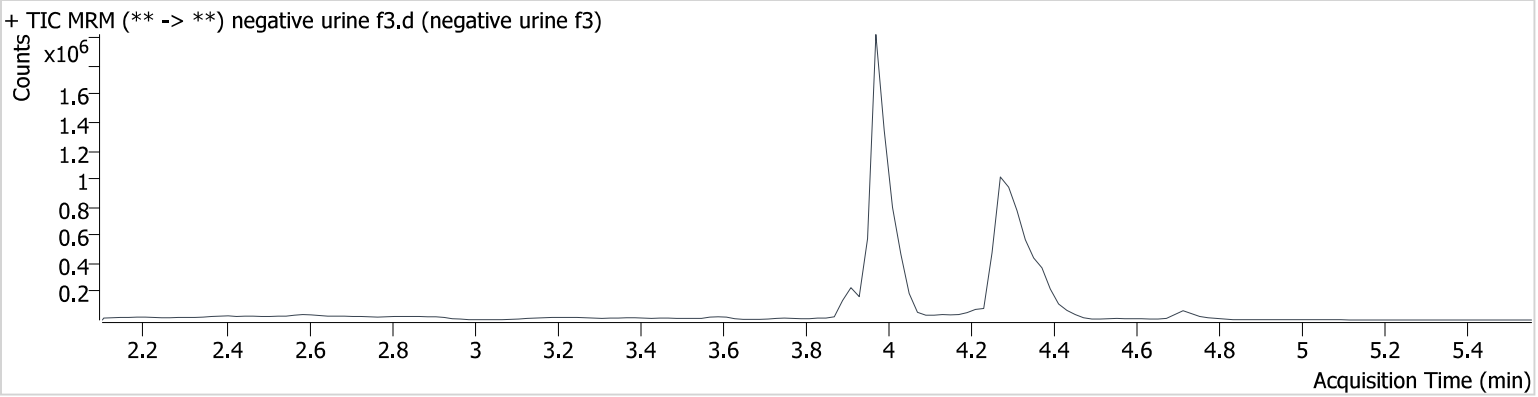


AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update	12/6/2022 8:23:43 AM

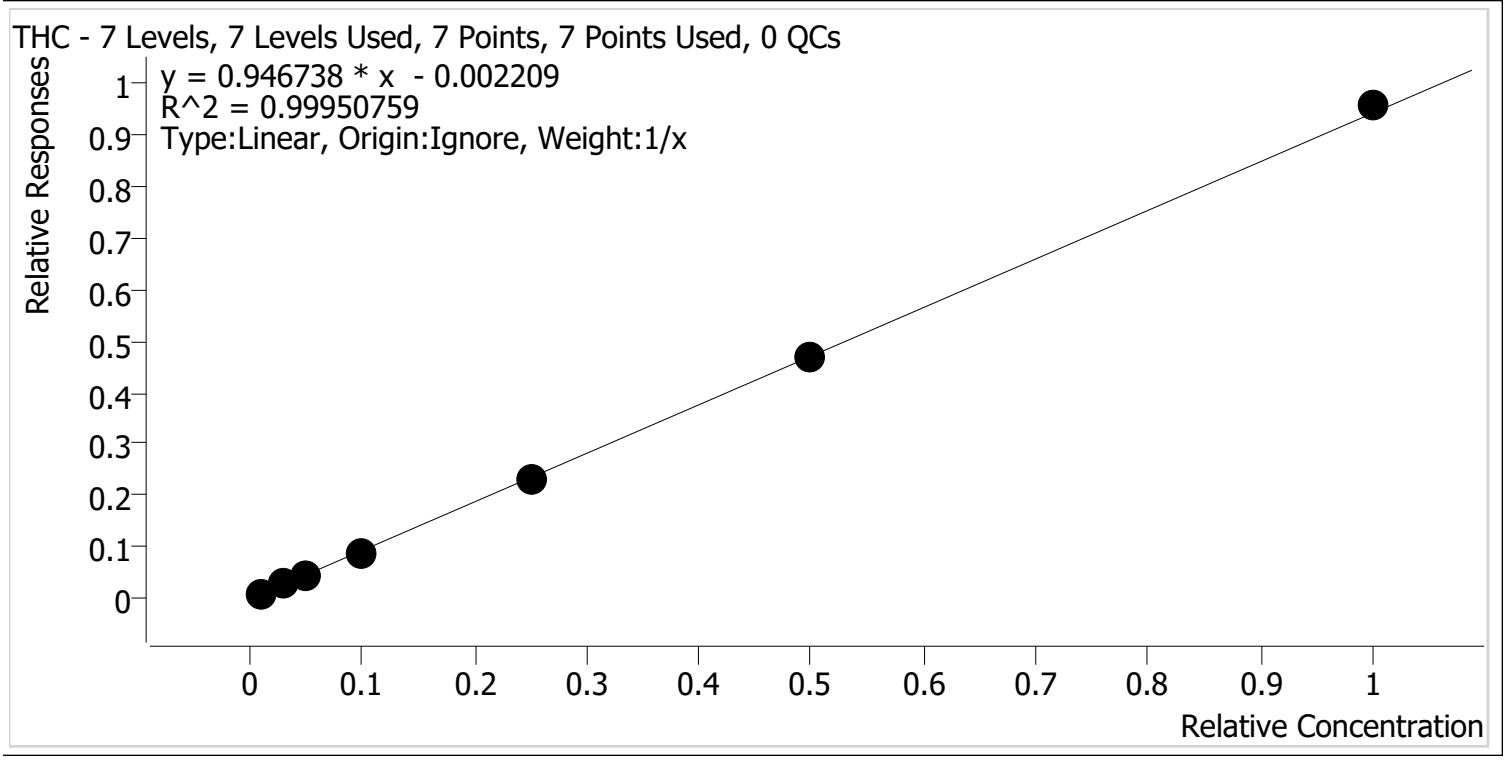
Instrument	69679	**Data File**	negative urine f3.d
Type	Sample	**Sample**	negative urine f3
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-F3	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 5:09:08 PM		
Sample Info.			

Sample Chromatogram



Compound Calibration Report

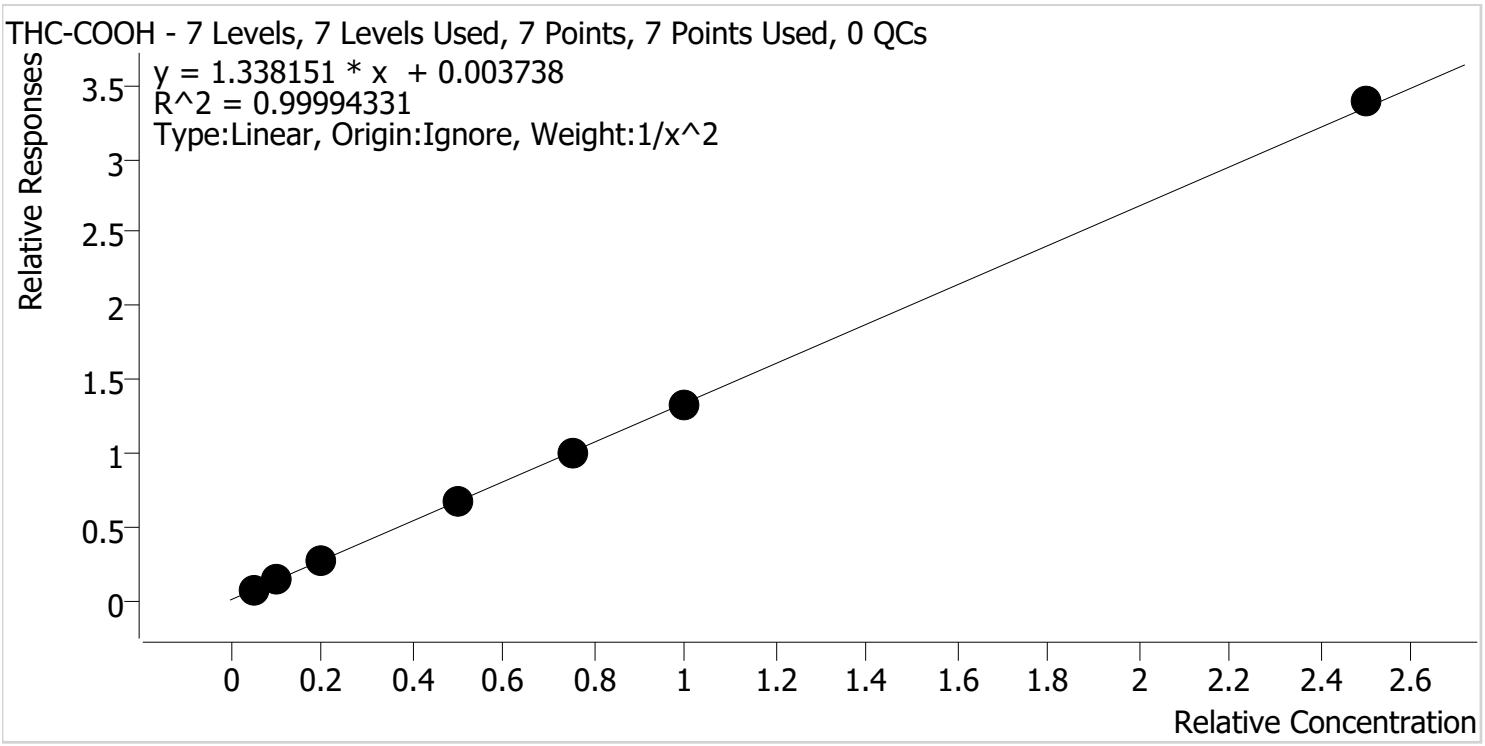
Batch results	D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Last Cal. Update	12/6/2022 8:23 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	112.6
cal 2	2	✔	3.0	2.9	97.4
cal 3	3	✔	5.0	4.8	95.1
cal 4	4	✔	10.0	9.6	96.4
cal 5	5	✔	25.0	24.4	97.7
cal-6	6	✔	50.0	49.6	99.3
cal-7	7	✔	100.0	101.5	101.5

Compound Calibration Report

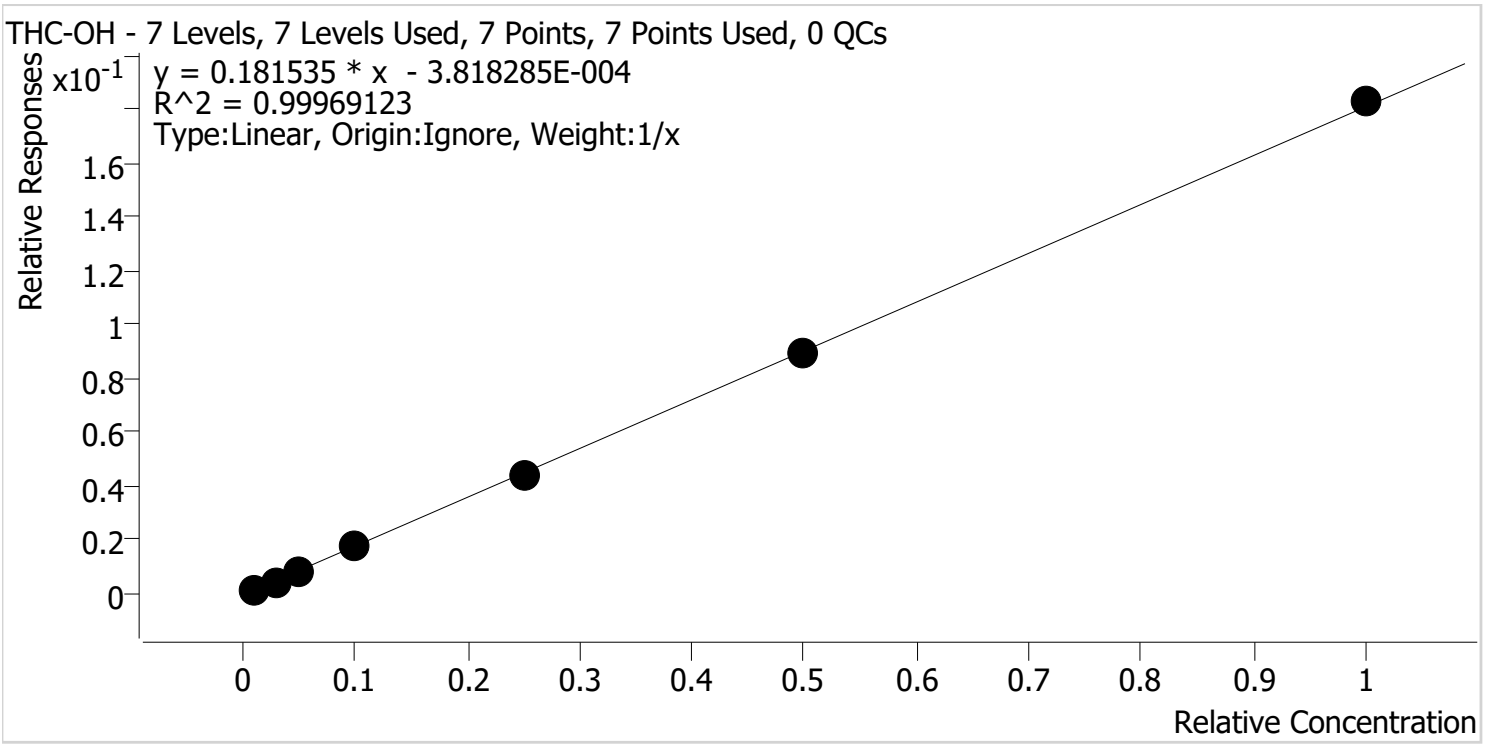
Batch results	D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Last Cal. Update	12/6/2022 8:23 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	5.0	100.2
cal 2	2	✔	10.0	10.0	100.1
cal 3	3	✔	20.0	19.9	99.4
cal 4	4	✔	50.0	49.8	99.5
cal 5	5	✔	75.0	75.0	100.0
cal-6	6	✔	100.0	99.7	99.7
cal-7	7	✔	250.0	253.1	101.2

Compound Calibration Report

Batch results	D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Last Cal. Update	12/6/2022 8:23 AM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



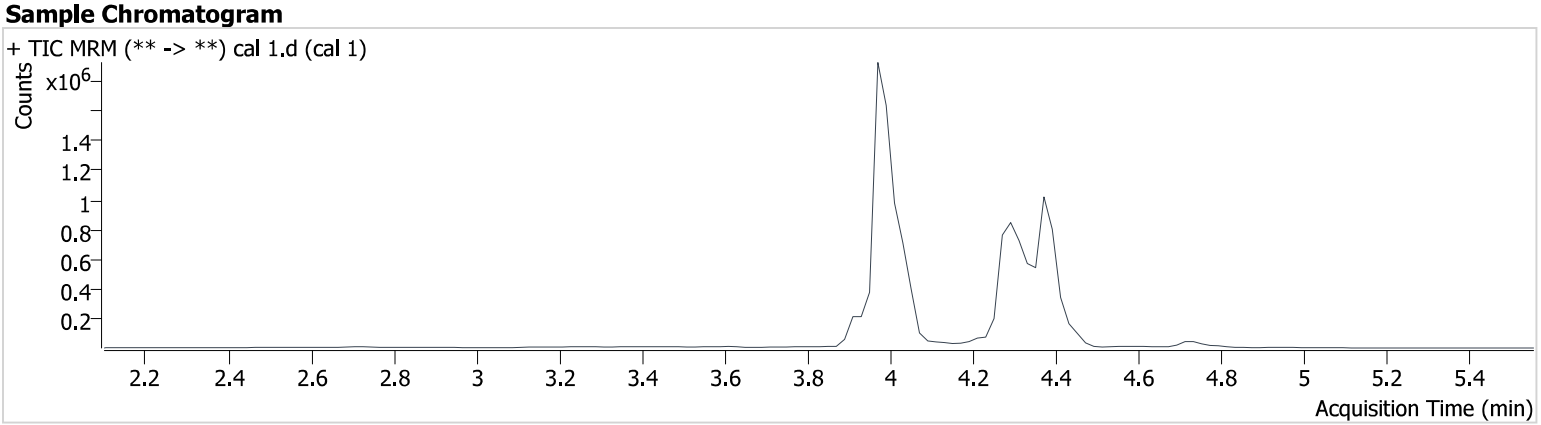
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	107.6
cal 2	2	✔	3.0	2.8	94.9
cal 3	3	✔	5.0	5.0	99.9
cal 4	4	✔	10.0	10.0	100.2
cal 5	5	✔	25.0	24.2	96.7
cal-6	6	✔	50.0	49.9	99.7
cal-7	7	✔	100.0	101.0	101.0

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	cal 1.d
Type	Cal	**Sample**	cal 1
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 2:56:42 PM		
Sample Info.			

Sample Chromatogram



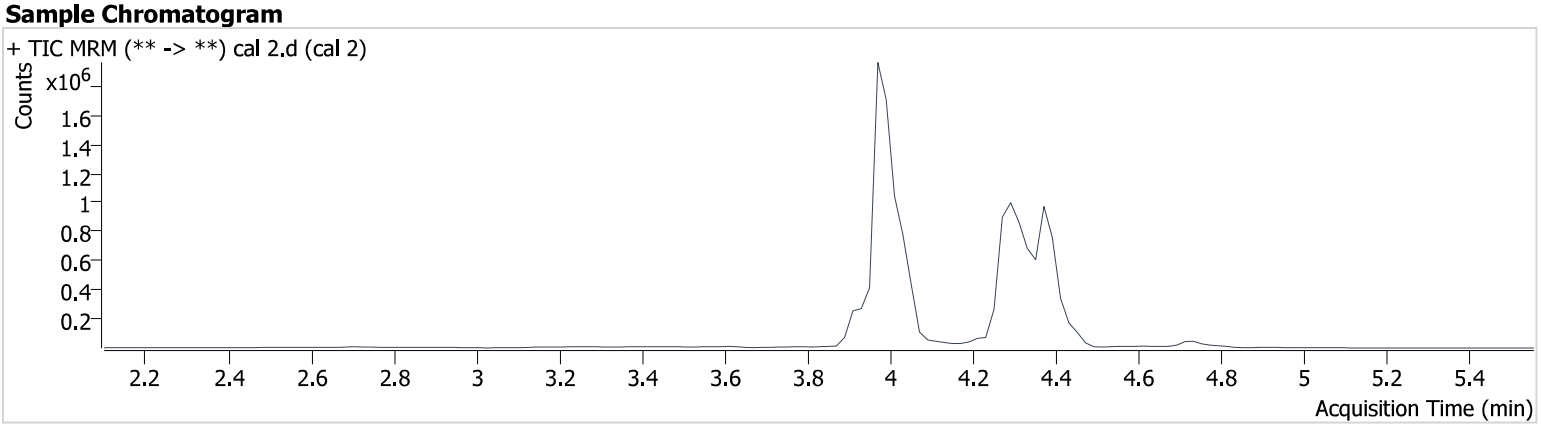
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	22468	2658943	1.126 ng/ml **Low**
THC-COOH	3.932	52099	736416	5.008 ng/ml **Low**
THC-OH	3.979	10968	6980386	1.076 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	cal 2.d
Type	Cal	**Sample**	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:03:21 PM		
Sample Info.			

Sample Chromatogram



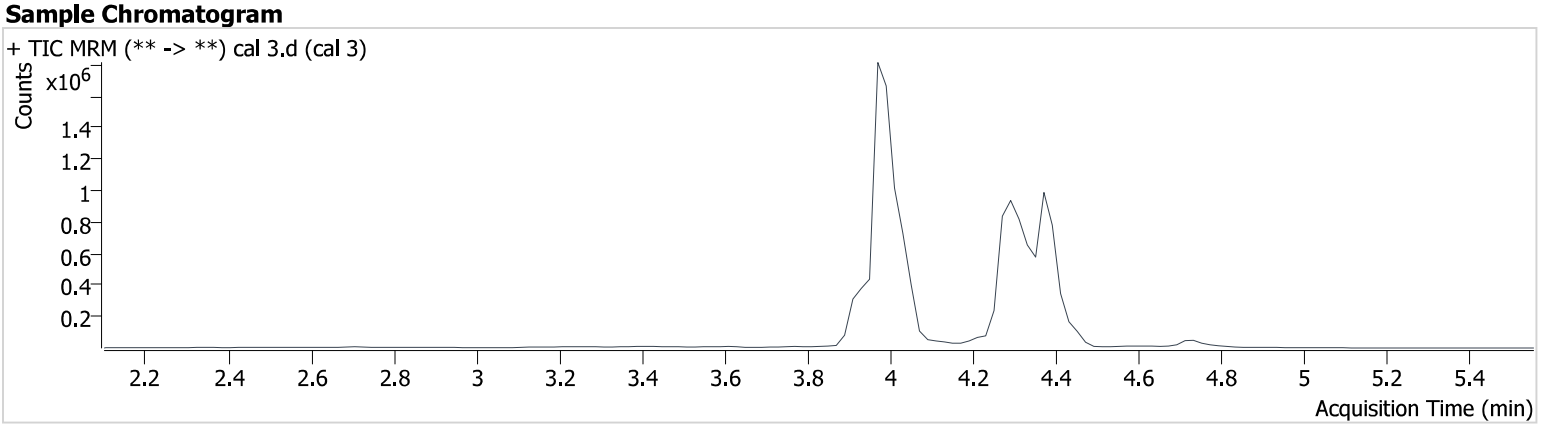
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	58220	2286834	2.922 ng/ml **Low**
THC-COOH	3.932	109070	792147	10.010 ng/ml
THC-OH	3.979	33902	7084155	2.847 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	cal 3.d
Type	Cal	**Sample**	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:09:59 PM		
Sample Info.			

Sample Chromatogram



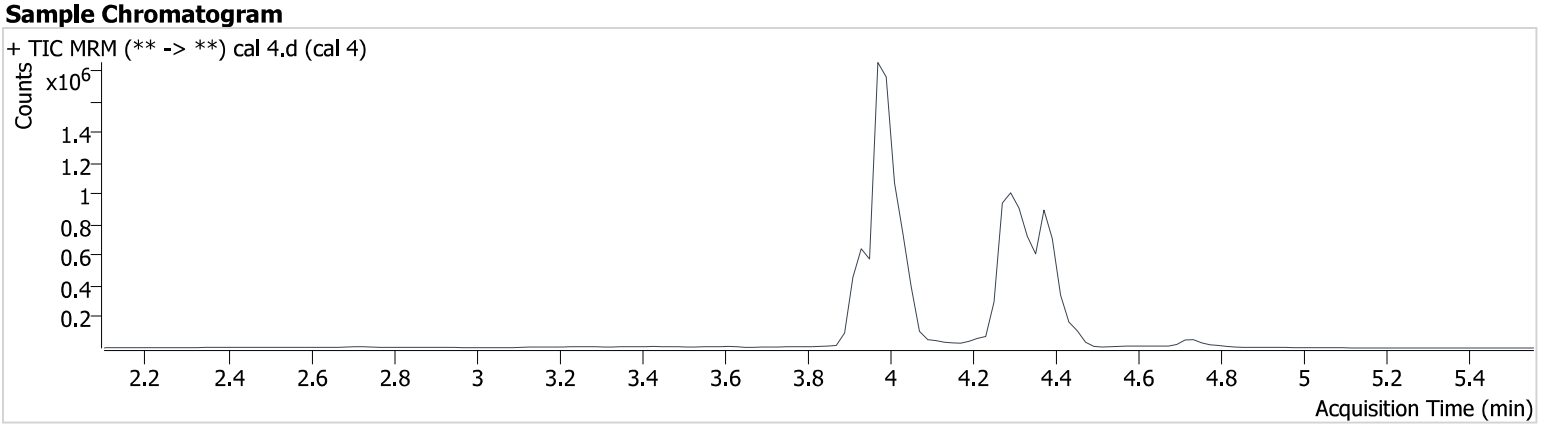
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	100392	2344375	4.757 ng/ml
THC-COOH	3.932	222923	826720	19.871 ng/ml
THC-OH	3.979	55769	6422353	4.994 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	cal 4.d
Type	Cal	**Sample**	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:16:38 PM		
Sample Info.			

Sample Chromatogram



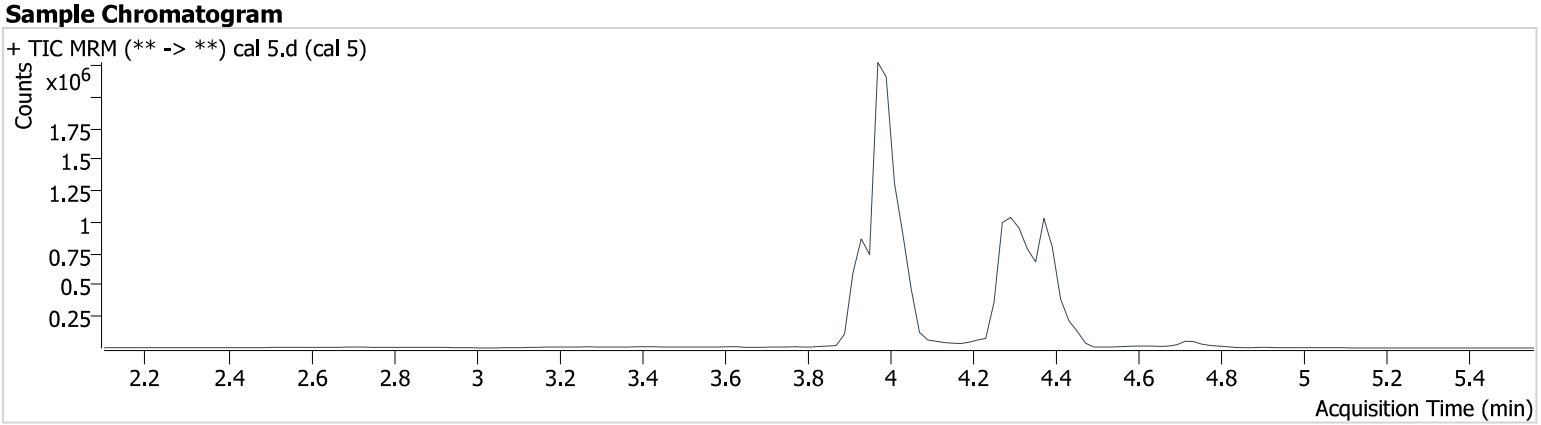
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	171630	1926310	9.644 ng/ml
THC-COOH	3.932	549967	821337	49.760 ng/ml
THC-OH	3.999	107100	6016084	10.017 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	cal 5.d
Type	Cal	**Sample**	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:23:14 PM		
Sample Info.			

Sample Chromatogram



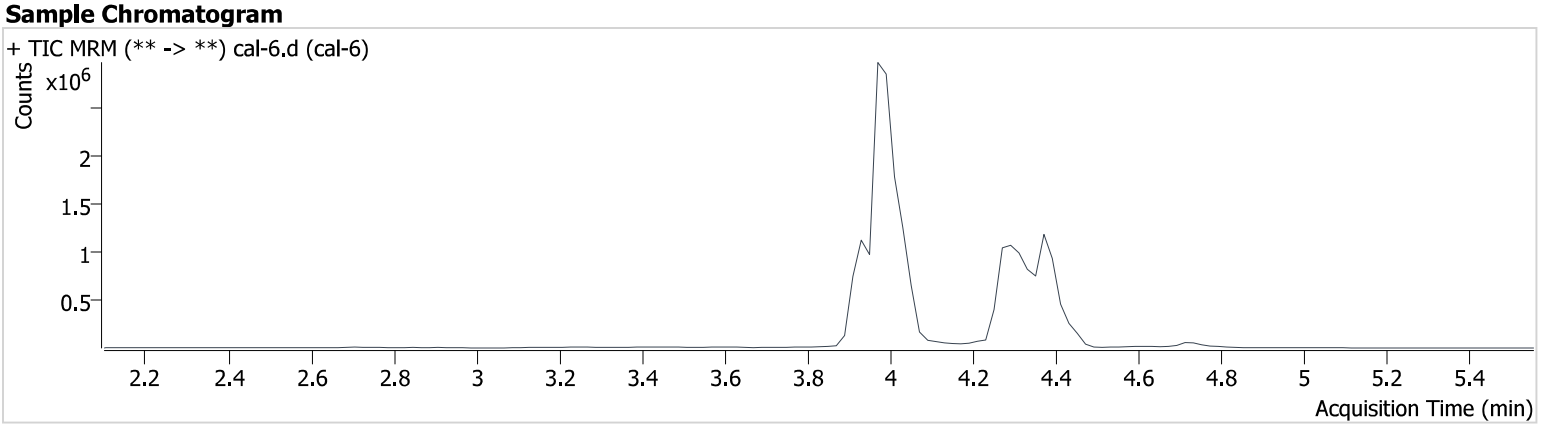
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	420888	1838564	24.413 ng/ml
THC-COOH	3.932	825160	819263	74.989 ng/ml
THC-OH	3.999	260187	5978071	24.186 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	cal-6.d
Type	Cal	**Sample**	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:29:50 PM		
Sample Info.			

Sample Chromatogram



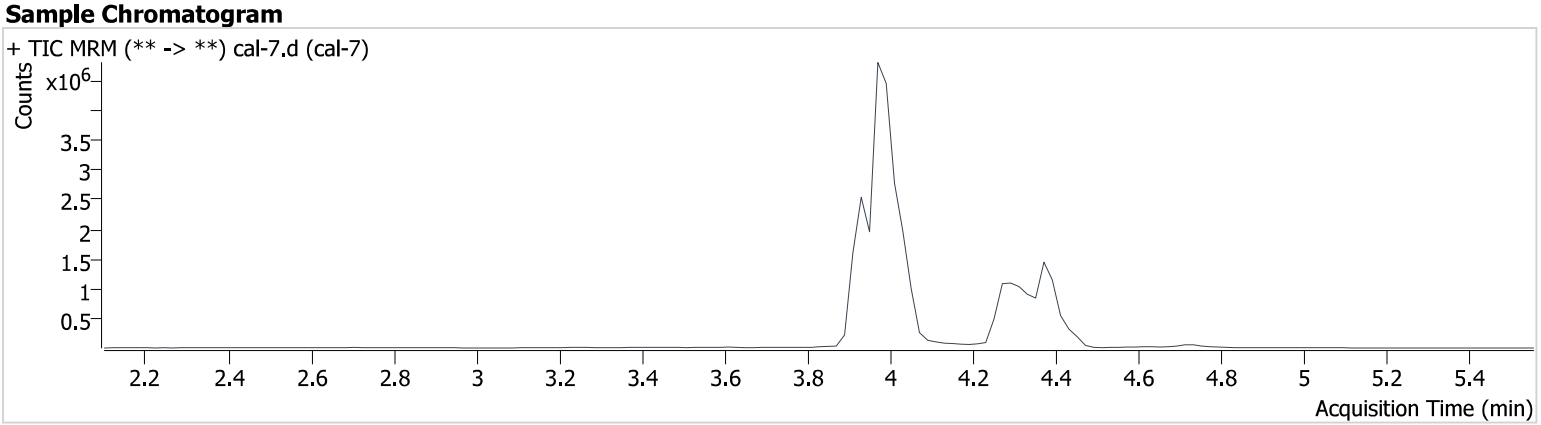
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	838703	1793271	49.634 ng/ml
THC-COOH	3.932	1136369	849702	99.663 ng/ml
THC-OH	3.999	551673	6120991	49.858 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\120522\QuantResults\cann.batch.bin
Calibration Last Update 12/6/2022 8:23:43 AM

Instrument	69679	**Data File**	cal-7.d
Type	Cal	**Sample**	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/5/2022 3:36:27 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	1537581	1603713	101.503 ng/ml
THC-COOH	3.932	2896858	854527	253.056 ng/ml
THC-OH	3.979	1164534	6363229	101.023 ng/ml