4/2/21- reviewed corrections to control/calibration positions on am 26 plate map BW

2/12/2021

Worklist: 4779

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-0225	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0227	1	AVK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0242	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-0242	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0255	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0256	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0259	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-0260	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0262	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0268	1	AVK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0269	1	AVK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0281	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0289	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0318	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 2/10/21 Analyst: Anne Nord
Plate lot#: 200511 Plate Expiration: 11/11/2020

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: 20J20793 **Blank Urine lot:** 10120 **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.
☒ 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. 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 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: *Due to the extraction occuring after the expiration of the analytical plate, an external control was included with this run as specified in the analytical method.*

	1	2	3	4	5	6	7	8	9	10	11	12
A	Cal 1	242-2	289-1		negative urine							
B	Cal 1	255-1			negative urine							
C	Cal 2	256-1			external control urine							
D	Cal 2	260-1			242-1							
E	negative blood	262-1			259-1							Cal 2
F	blood control	268-1			318-1							Cal 2
G	225-1	269-1										Cal 1
H	227-1	281-1										Cal 1

lab number format
C2021-0___-_

The negative urine in spot B5 was not injected or evaluated.

Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh methamphetamine, temazepam, midazolam

Stock solution 1mg/ml 50 ul each in 4850 ul MeOH (fisher 195629)

ppd 8/6/20: Exp: 4/1/2021 lot 4121 by baw

Drug	lot	expiration
Methamphetamine	FE08101708	10/1/2022
midazolam	FE01221602	4/1/2021
temazepam	FE04261601	5/1/2021

AM 25/28 control 500 ul working solution (4121) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 8/6/20, exp 4/1/2021 lot u4121 negative urine 73020 by AMN

AM 25/28 Blood Control: 50ul working solution (4121) in 4950 ul neg blood (100ng/mL Expected concentration)

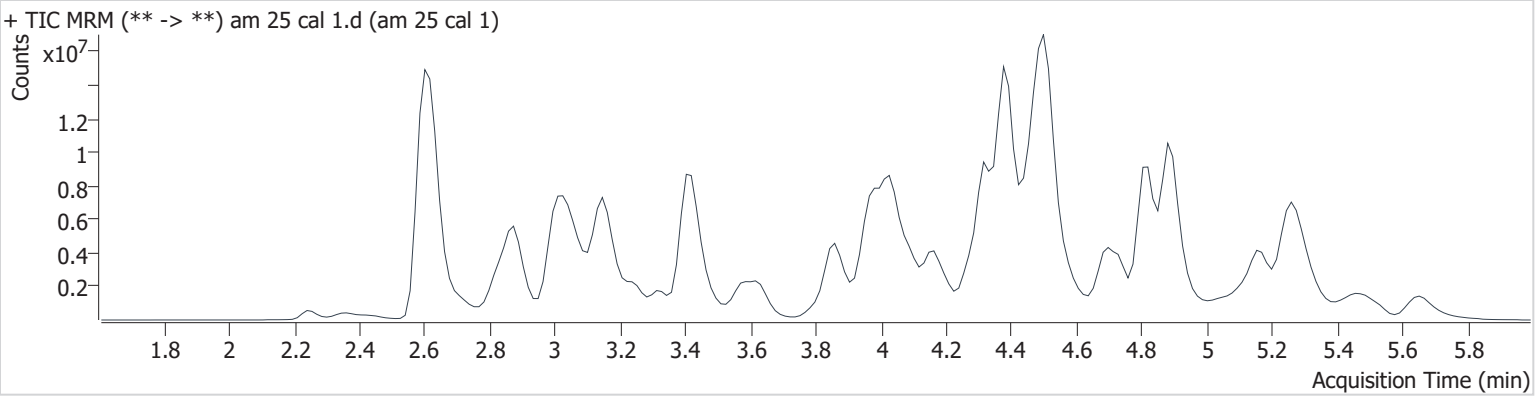
ppp 8/6/20, exp 4/1/21 lot b4121 neg blood 20G20792 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\mds.batch.bin
Calibration Last Update 2/12/2021 12:20:28 PM

Instrument	69679	**Data File**	am 25 cal 1.d
Type	Cal	**Sample**	am 25 cal 1
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-C1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/10/2021 12:59:46 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.493	47253	29976.3	135.9	1416870	10.000
7-aminoclonazepam	3.331	780016	1237.6	200.8	3187553	10.000
7-aminoflunitrazepam	3.543	1083613	727.0	1141.4	3187553	10.000
Acetyl Fentanyl	4.656	398849	284.4	199120.6	24190464	10.000
Acetyl Norfentanyl	2.880	231798	345.2	119.0	24190464	10.000
a-hydroxyalprazolam	4.302	121413	70.1	790.2	3187553	10.000
alpha-hydroxymidazolam	4.409	2400333	159.9	706.3	3187553	10.000
alpha-PHP	4.465	2727621	1612.9	560.4	9753456	10.000
alpha-PVP	4.175	3782891	967.7	527.1	9753456	10.000
Alprazolam	4.429	1055954	383.8	284.6	10036548	10.000
Amitriptyline	5.269	2653997	4580.1	204.9	12205081	10.000
Amphetamine	2.885	4049782	3039.7	1903.5	9753456	10.000
Benzoylecgonine	3.072	140327	386.0	53.5	297219	10.000
Brompheniramine	4.656	129455	50.8	23.0	51899518	10.000
Buprenorphine	5.243	611063	1881.5	353.2	2715156	10.000
Bupropion	4.373	3871114	2060.9	1383.8	17037524	10.000
Carbamazepine	3.991	5404472	∞	2957.2	82835	10.000
Carisoprodol	3.958	1014237	2464.3	168.5	5684749	10.000
Chlordiazepoxide	4.538	606203	230.2	317.1	10036548	10.000
Chlorpheniramine	4.524	6691852	∞	∞	51899518	10.000
Citalopram	4.578	3136109	525.5	569.0	51899518	10.000
Clomimpramine	5.656	4077949	∞	∞	51899518	10.000
Clonazepam	4.226	384401	352.6	∞	10036548	10.000
Clonazolam	4.162	499992	1352.3	74652.2	10036548	10.000
Cocaethylene	4.272	3806297	38620.1	1781.6	51899518	10.000
Cocaine	4.076	4863022	1379.8	194.2	26968881	10.000
Codeine	3.359	370543	160.1	41.7	196096	10.000
Cyclobenzaprine	5.119	4969832	1601.3	115.8	12205081	10.000
Desipramine	5.089	6531301	1861.3	1366.5	12205081	10.000
Dextromethorphan	4.890	2498455	∞	1494.4	12768971	10.000
Dextrorphan	3.805	2406493	292.5	212.1	12768971	10.000
Diazepam	4.675	1024318	549.2	439.6	10036548	10.000
Dihydrocodeine	3.024	998047	869.2	257.6	3557707	10.000
Diphenhydramine	4.526	9154635	591.9	455.7	51899518	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.919	2298274	378.6	∞	20468861	10.000
Doxylamine	3.987	8025510	6999.1	278.8	12768971	10.000
EDDP	4.370	1693928	4144.2	616539.3	3557707	10.000
Estazolam	4.322	3008047	711.4	1085.7	10036548	10.000
Etizolam	4.455	140028	108740.1	302.7	10036548	10.000
Fentanyl	4.822	323443	184.6	38736.1	19340792	10.000
Flualprazolam	4.285	486222	325.3	5489.9	10036548	10.000
Flunitrazepam	4.366	1411356	357.6	1059.1	10036548	10.000
Fluoxetine	4.704	3088090	550.2	660.3	7842865	10.000
Flurazepam	4.789	3165164	808.7	877491.9	10036548	10.000
Hydrocodone	3.969	1279112	128.6	59.9	7777603	10.000
Hydromorphone	2.801	1004882	3586.2	743.8	196096	10.000
Imipramine	5.268	8983999	357.5	325.3	12205081	10.000
Ketamine	4.174	2969693	923.8	122.6	19048433	10.000
Lamotrigine	3.409	233975	204.7	322.0	51899518	10.000
Levamisole	3.474	1764308	1499.8	50.6	12768971	10.000
Levetireacetam	2.247	702638	889.7	1671.5	51899518	10.000
Lorazepam	4.210	63484	872.8	51.6	10036548	10.000
Maprotiline	5.270	1945044	∞	∞	12205081	10.000
MDA	3.094	2772595	613.4	377.8	24949898	10.000
MDEA	3.427	3817678	3615.4	232.7	24949898	10.000
MDMA	3.261	4237910	413.8	547.5	24949898	10.000
Meperidine	4.204	2616343	1153.3	308.3	12768971	10.000
Meprobamate	3.351	284012	387.8	117.0	5684749	10.000
Methadone	4.809	6137601	583.3	640.5	3557707	10.000
Methamphetamine	3.051	6258583	3335.7	340.4	24949898	10.000
Methocarbamol	3.273	184876	157.1	324.9	3557707	10.000
Methylphenidate	3.869	8589381	1354.8	390.1	19048433	10.000
Metoprolol	3.589	626548	234.0	1425.3	12768971	10.000
Midazolam	4.624	525569	1155.9	705.3	10036548	10.000
Mirtazapine	4.708	3248730	637.2	3382.2	12768971	10.000
Mitragynine	4.834	311136	169907.4	202140.8	12768971	10.000
Morphine	2.438	265079	∞	2506.5	196096	10.000
Norbuprenorphine	4.467	62767	239.8	22845.7	2715156	10.000
Nordiazepam	4.494	588833	510.7	303.7	10036548	10.000
Norfentanyl	3.426	4564260	1709.7	236.3	24190464	10.000
Norhydrocodone	3.193	77771	59.3	60.1	7777603	10.000
norketamine	4.008	551728	509.9	2508.2	19048433	10.000
Normeperidine	3.869	2702176	288.9	336.3	51899518	10.000
Noroxycodone	3.009	946112	91.3	208.9	10461123	10.000
Nortriptyline	5.196	2519390	38.2	109.5	12205081	10.000
O-desmethyl-tramadol	2.879	6179268	1377.3	197.9	51899518	10.000
Olanzapine	4.550	1929104	897.7	588.5	82835	10.000
Oxazepam	4.292	321675	166.9	69.4	2074774	10.000
Oxycodone	3.205	2218013	1984.9	389.0	10461123	10.000
Oxymorphone	2.360	1358435	568.7	43.2	196096	10.000
Paroxetine	5.563	119447	29.6	318.5	7842865	10.000
Phenazepam	4.439	846584	1210.2	309072.8	10036548	10.000
Phencyclidine	4.312	4840315	473.7	310.1	12768971	10.000
Phentermine	3.187	61788	59.3	265.3	19048433	10.000
Phenytoin	3.882	148402	418.8	193.7	82835	10.000
Promethazine	5.176	10036474	668.4	1332.6	51899518	10.000
Pseudoephedrine	2.611	61313748	3599.5	1299.5	24949898	10.000
Quetiapine	4.744	4585349	1748.3	851879.9	30658564	10.000
Sertraline	5.460	1470760	514.6	1579.9	7842865	10.000
Sufentanil	5.048	322944	1632.6	729.4	24190464	10.000
Tapentadol	3.595	4011377	809.8	1261.7	3557707	10.000
Temazepam	4.461	1861612	169.6	118.5	10036548	10.000
Tramadol	3.636	6346101	11555.4	77.9	51899518	10.000
Trazodone	4.897	3817578	1799.5	1413.9	20468861	10.000

AM #25 Multi-Drug Screen Results

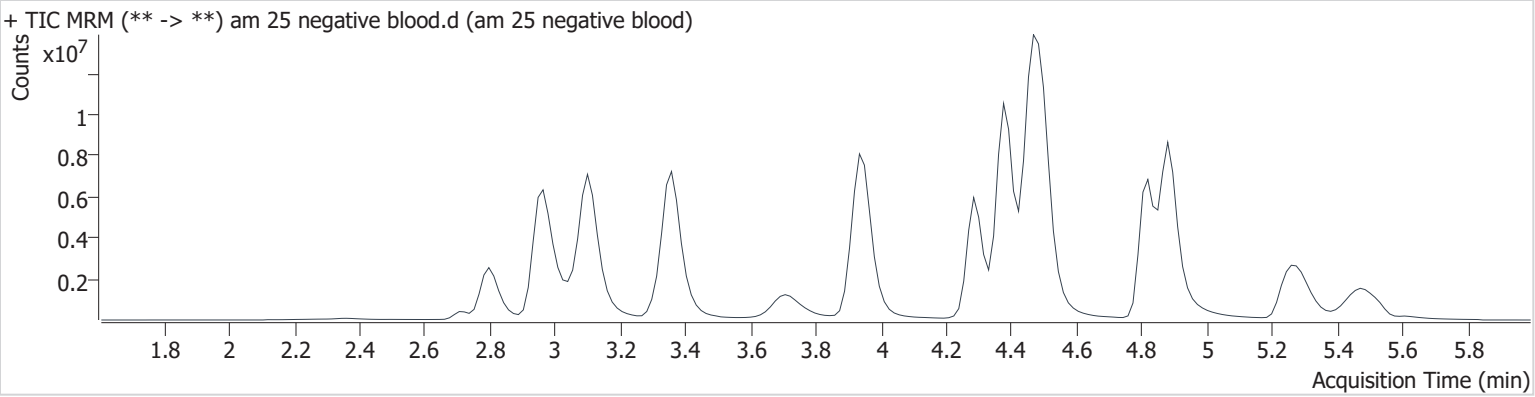
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	4.110	5451203	7776.3	527.5	7842865	10.000
Zaleplon	4.137	1262862	538.7	644.9	30658564	10.000
Zolpidem	4.398	6400594	2610.3	1528.0	30658564	10.000
Zopiclone	4.437	573406	788.6	800.0	2899877	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\mds.batch.bin
Calibration Last Update 2/12/2021 12:20:28 PM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-E1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/10/2021 1:06:28 PM		
Sample Info.			

Sample Chromatogram

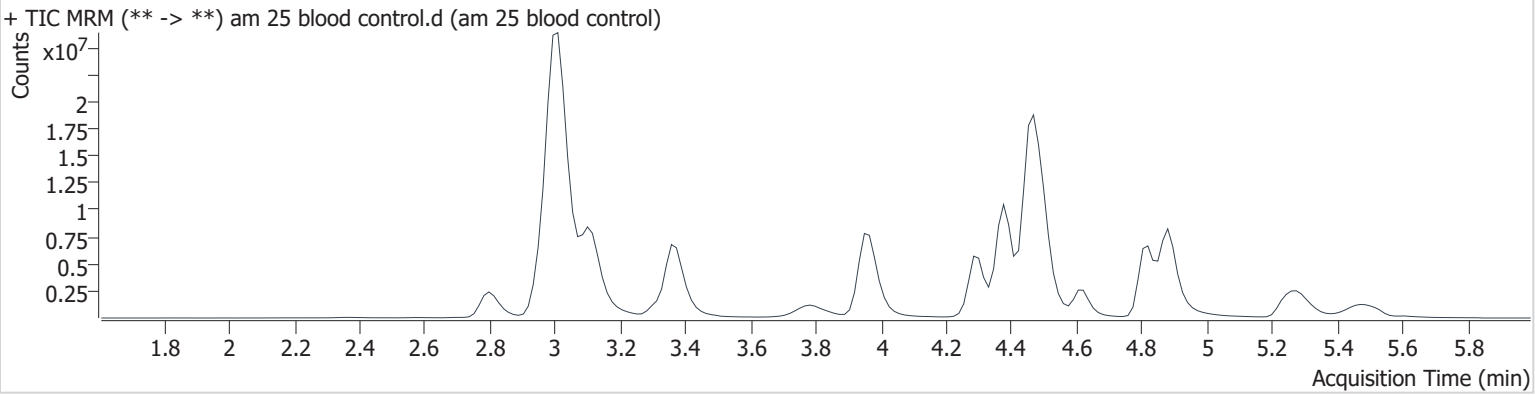


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\mds.batch.bin
Calibration Last Update 2/12/2021 12:20:28 PM

Instrument	69679	**Data File**	am 25 blood control.d
Type	Sample	**Sample**	am 25 blood control
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-F1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/10/2021 1:13:10 PM		
Sample Info.			

Sample Chromatogram



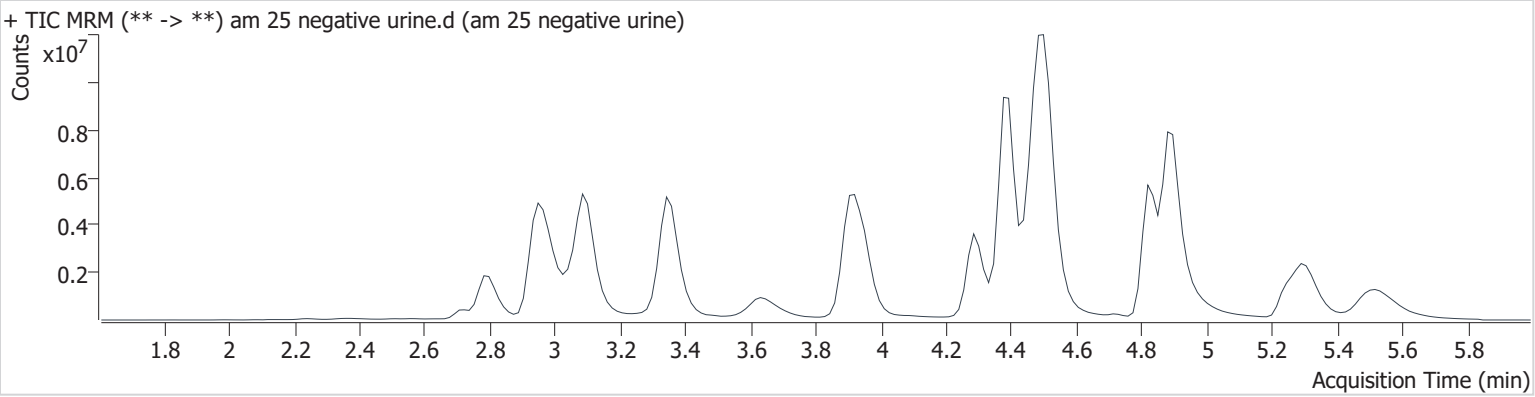
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	3.021	49434623	∞	1472.9	25155584	78.341
Midazolam	4.624	3962264	4266.9	16850.2	10197288	74.202
Temazepam	4.461	16181057	3778.7	699.1	10197288	85.549

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\mds.batch.bin
Calibration Last Update 2/12/2021 12:20:28 PM

Instrument	69679	**Data File**	am 25 negative urine.d
Type	Sample	**Sample**	am 25 negative urine
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-A5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/10/2021 2:46:57 PM		
Sample Info.			

Sample Chromatogram



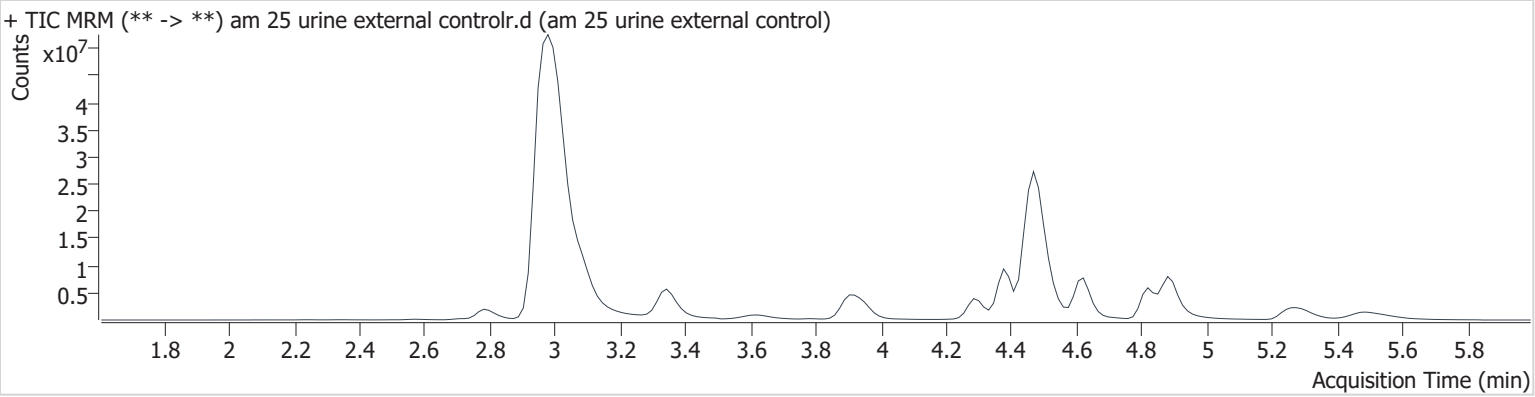
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Codeine	3.237 **Low**	101200	426.7	70.7	190510	2.811 < 32
Morphine	2.394	37440	∞	32.4	190510	1.454 < 32

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\mds.batch.bin
Calibration Last Update 2/12/2021 12:20:28 PM

Instrument	69679	**Data File**	am 25 urine external controlr.d
Type	Sample	**Sample**	am 25 urine external control
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-C5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/10/2021 4:22:14 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	3.019	110382250	∞	∞	17753147	247.866
Midazolam	4.624	13875584	6886.2	5114.4	6093935	434.819
Temazepam	4.476	49939934	1626.0	866.3	6093935	441.820

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

Extraction Date: 2/10/21 Analyst: Anne Nord

Plate lot#: 201206 Plate Expiration: 06/06/2021

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: 20J20793 **Urine Blank:** 10120
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.
☒ 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:

Toxicology AM method 27/26 external prep information

working solution 15 ug/ml in meoh C-THC, THC-OH, 7.5 ug/ml THC

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 150 ul THC-OH in 9692.5 ul meOH
Ppd 8/26/20 Exp: 7/1/21 lot 82620 by AMN

Drug	lot	expiration
C-THC	FE01061702	3/1/2022
THC-OH	FE07221601	7/1/2021
THC	FE01041701	3/1/2022

AM 27/26 blood control 100 ul working solution lot () in 9900 ul blood lot ()

		Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	

AM 27/26 urine control 400 ul working solution lot (82620) in 9600 ul urine **out of use**

ppd 8/26/20 Exp 7/1/21 neg urine lot 73020	lot u82620	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	10/4/2020
ppd 10/5/20 Exp 7/1/21 neg urine lot 10120	lot 10520	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	1/12/2021
ppd 1/13/21 Exp 7/1/21 neg urine lot 10120	lot 11321	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

	1	2	3	4	5	6
a	cal 1 ~~cal 100 ng~~	neg blood	268-1	~~318-1~~ 2/10/21		~~QC~~ 1
b	cal 2 ~~cal 50 ng~~	225-1	269-1			cal 100 ng
c	cal 3 ~~cal 25 ng~~	227-1	281-1			cal 50 ng
d	cal 4 ~~cal 10ng~~	242-2	289-1			cal 25 ng
e	cal 5 ~~cal 5 ng~~	255-1	negative urine			cal 10ng
f	cal 6 ~~cal 3 ng~~	256-1	urine control			cal 5 ng
g	cal 7 ~~cal 1ng~~	260-1	~~242-1~~ 2/10/21 318-1			cal 3 ng
h	QC 1	262-1	259-1			cal 1ng

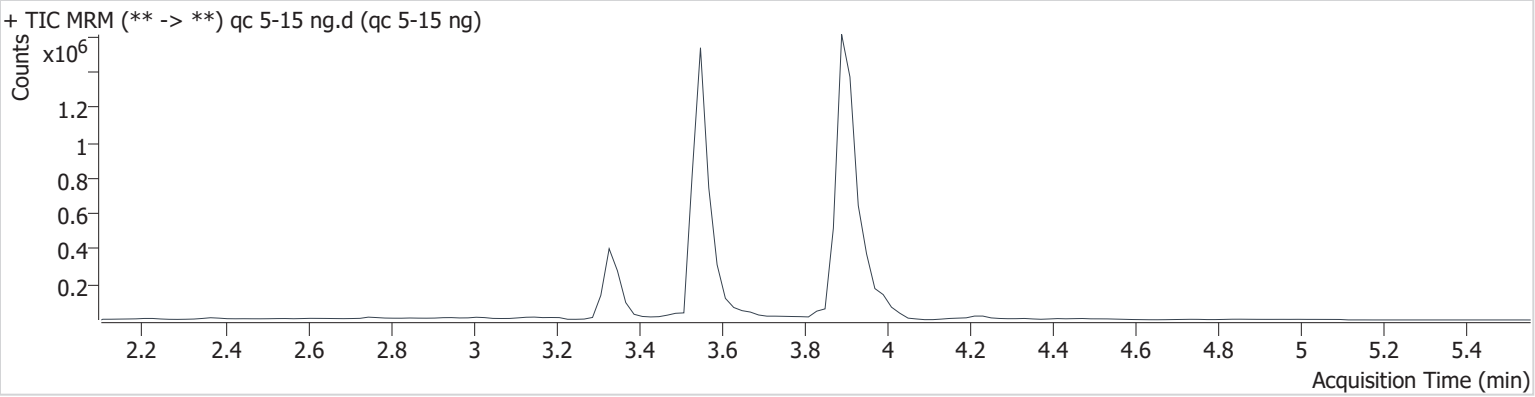
C2021-0___-_

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

Instrument	69679	**Data File**	qc 5-15 ng.d
Type	QC	**Sample**	qc 5-15 ng
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/10/2021 5:35:48 PM		
Sample Info.			

Sample Chromatogram



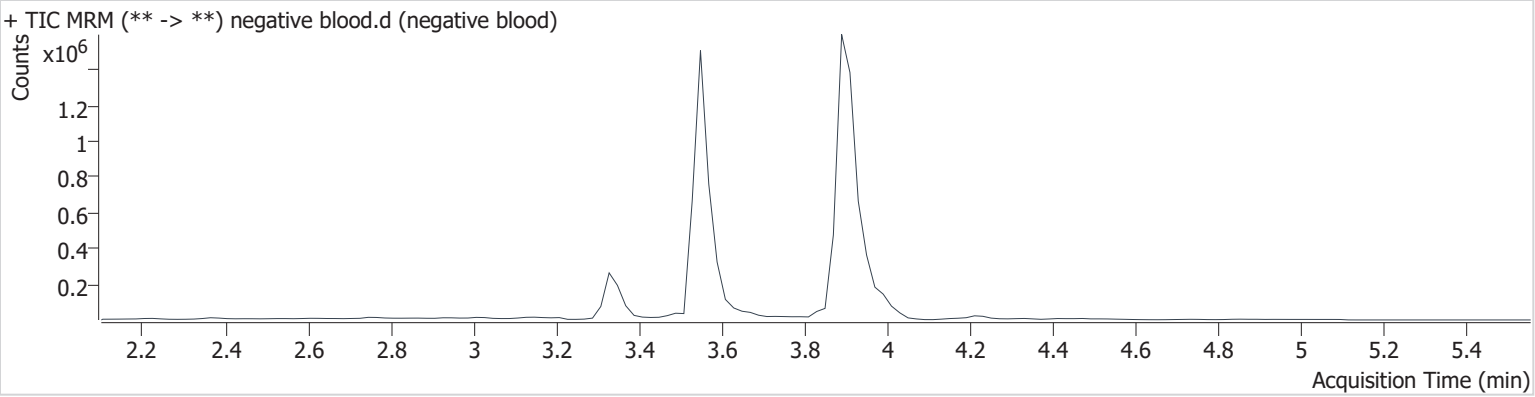
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	14174	433957	4.053 ng/ml
THC-COOH	3.331	169057	692224	15.803 ng/ml
THC-OH	3.558	25806	4168124	4.405 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/10/2021 5:42:24 PM		
Sample Info.			

Sample Chromatogram

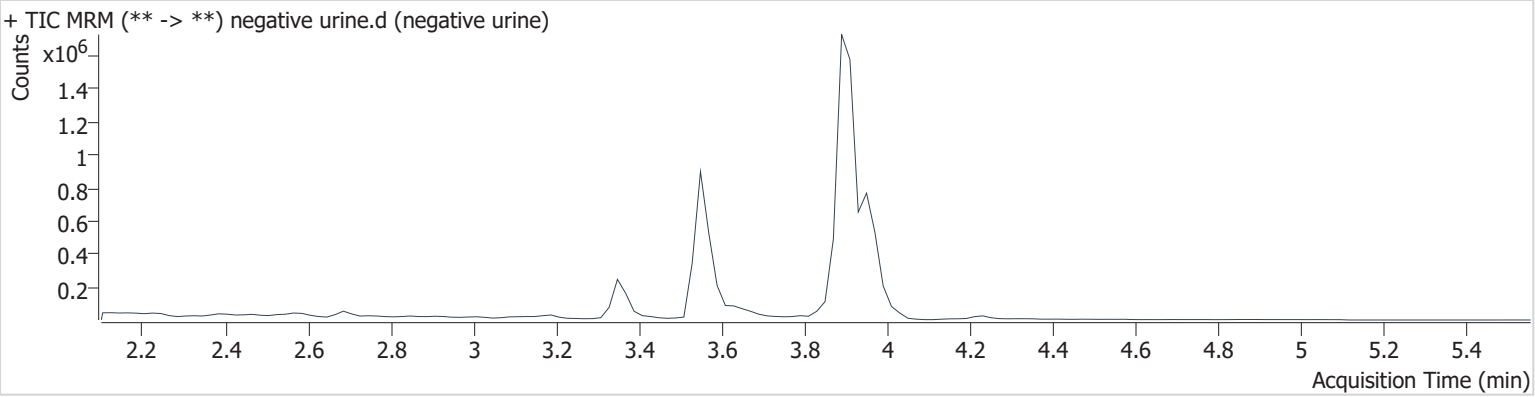


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

Instrument	69679	**Data File**	negative urine.d
Type	Sample	**Sample**	negative urine
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-E3	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/10/2021 7:01:44 PM		
Sample Info.			

Sample Chromatogram

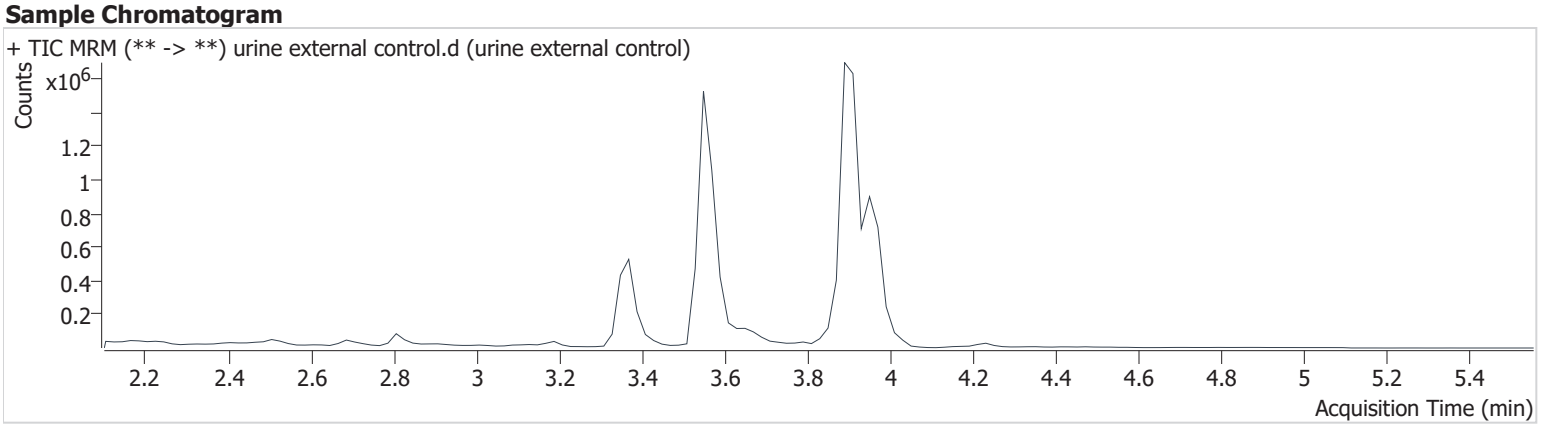


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

Instrument	69679	**Data File**	urine external control.d
Type	Sample	**Sample**	urine external control
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-F3	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/10/2021 7:08:20 PM		
Sample Info.			

Sample Chromatogram



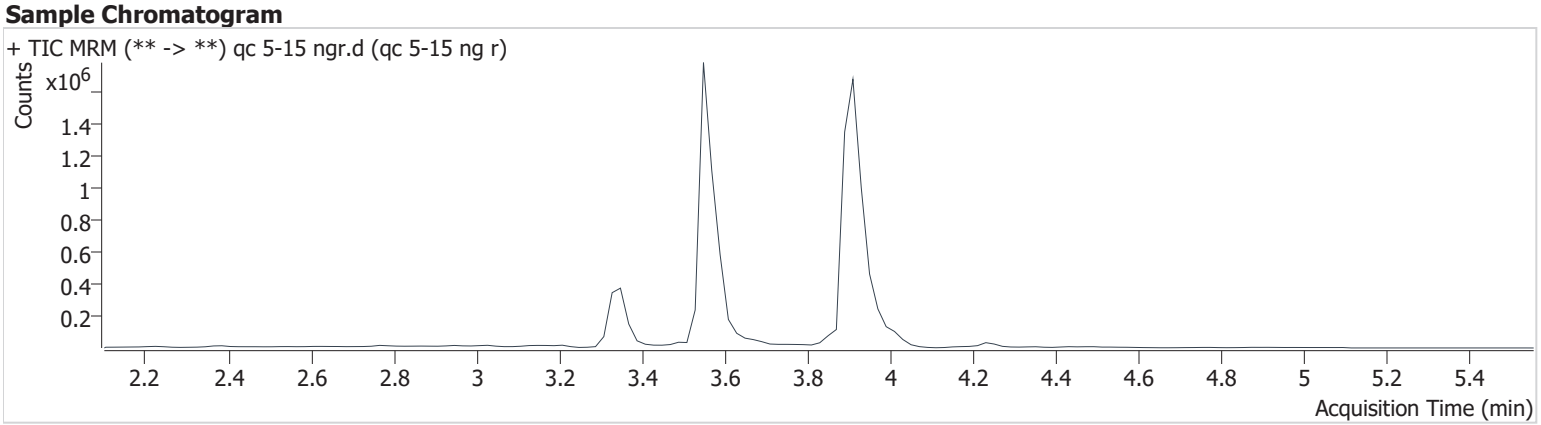
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	293052	1461897	24.765 ng/ml
THC-COOH	3.371	372143	666741	37.858 ng/ml
THC-OH	3.558	217735	2821765	54.642 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

Instrument	69679	**Data File**	qc 5-15 ngr.d
Type	QC	**Sample**	qc 5-15 ng r
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/10/2021 7:28:09 PM		
Sample Info.			

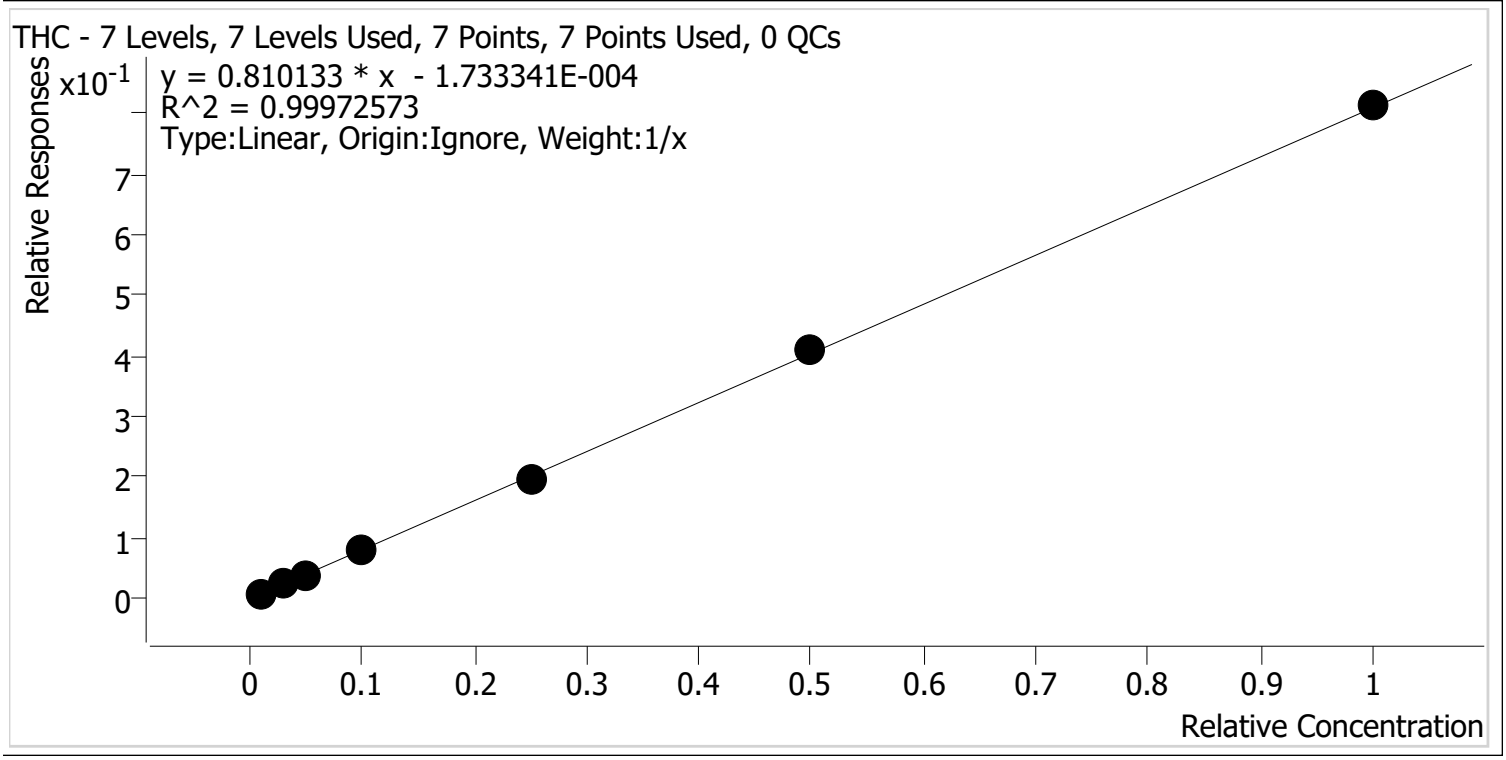
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	13116	415402	3.919 ng/ml
THC-COOH	3.351	163436	740913	14.143 ng/ml
THC-OH	3.558	27217	4690466	4.130 ng/ml

Compound Calibration Report

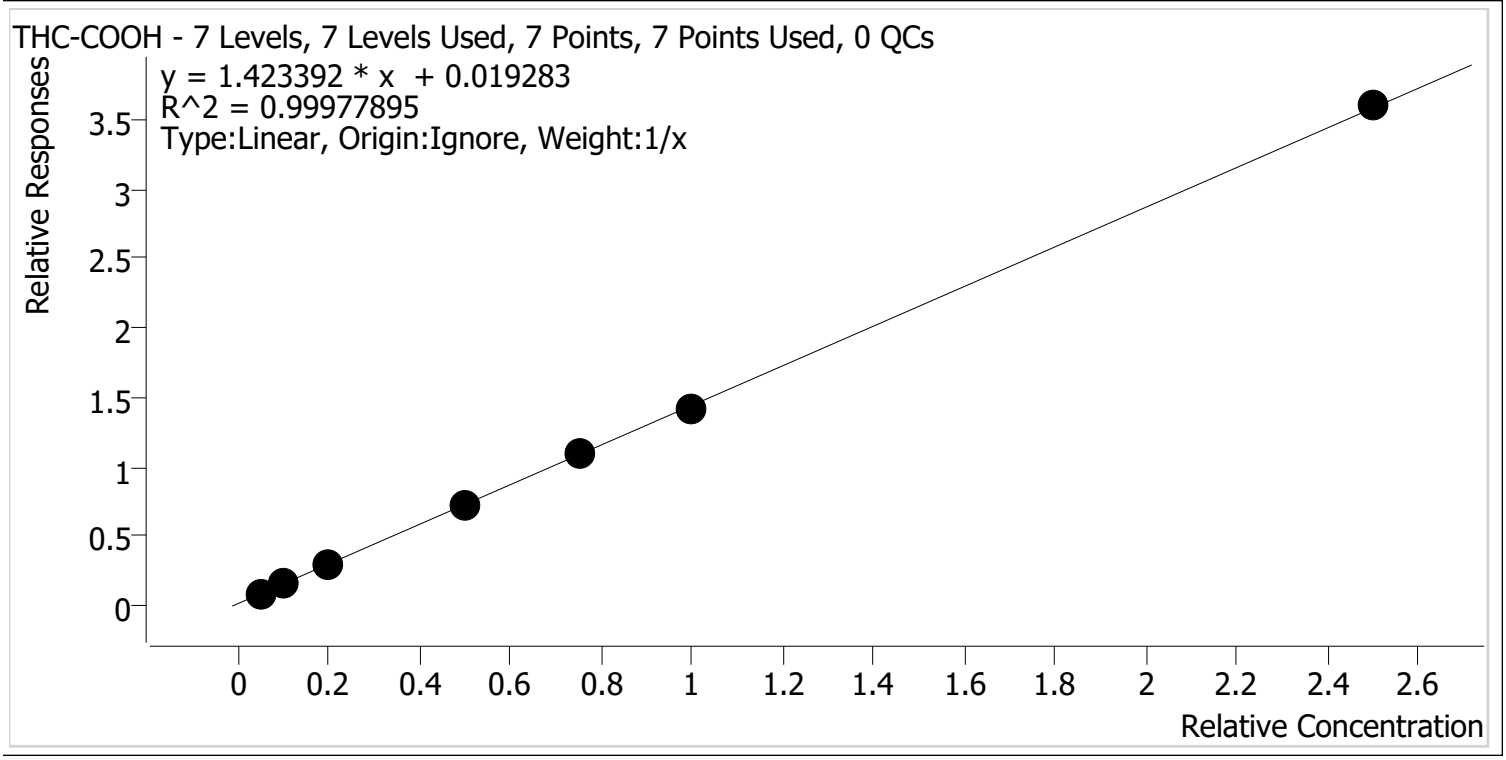
Batch results	D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Last Cal. Update	2/12/2021 12:26 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	106.0
cal 2	2	✔	3.0	3.1	101.8
cal 3	3	✔	5.0	4.8	95.3
cal 4	4	✔	10.0	9.8	98.0
cal 5	5	✔	25.0	24.3	97.4
cal-6	6	✔	50.0	50.6	101.1
cal-7	7	✔	100.0	100.4	100.4

Compound Calibration Report

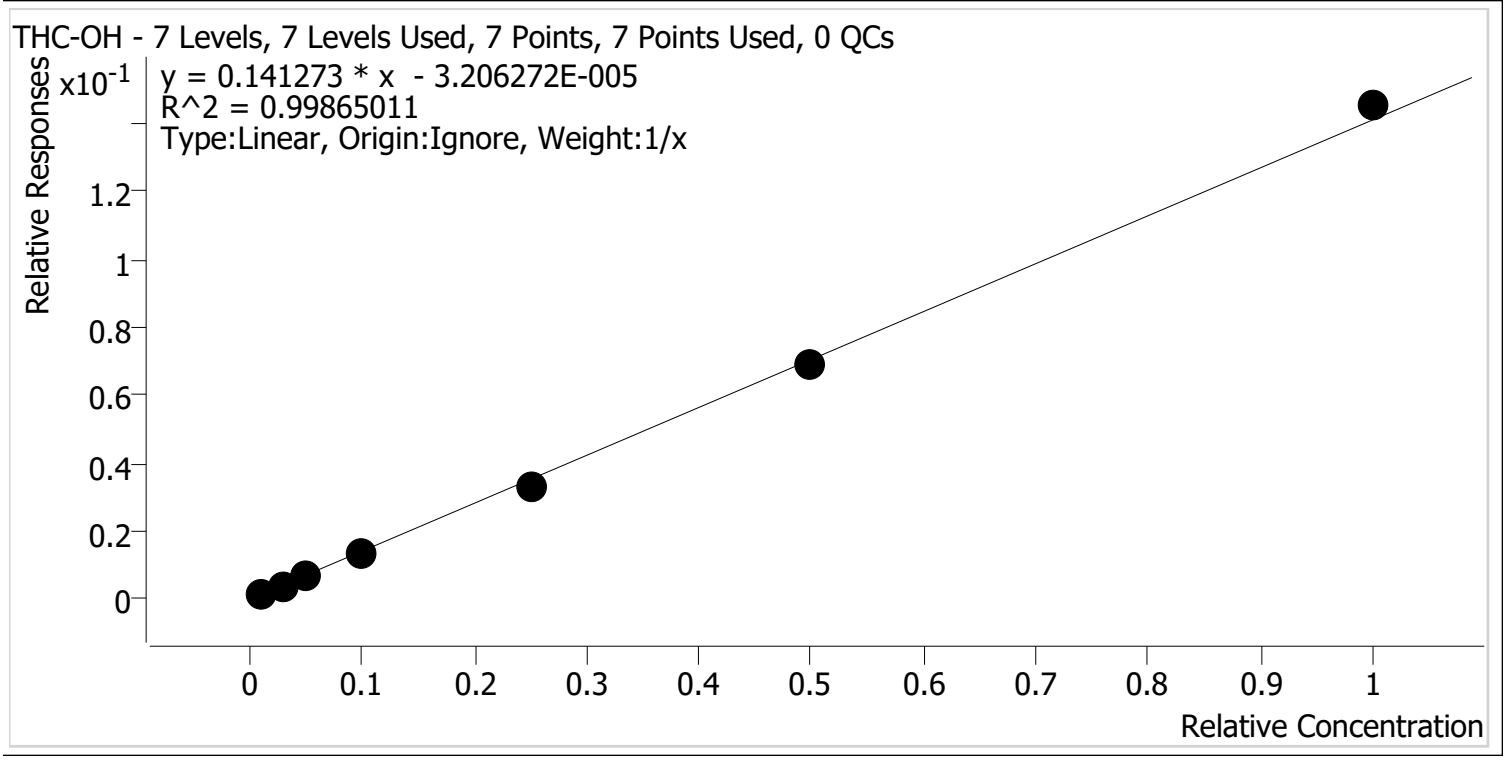
Batch results	D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Last Cal. Update	2/12/2021 12:26 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	4.9	98.1
cal 2	2	✔	10.0	10.3	102.8
cal 3	3	✔	20.0	20.2	100.8
cal 4	4	✔	50.0	48.9	97.8
cal 5	5	✔	75.0	76.2	101.5
cal-6	6	✔	100.0	98.4	98.4
cal-7	7	✔	250.0	251.2	100.5

Compound Calibration Report

Batch results	D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Last Cal. Update	2/12/2021 12:26 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



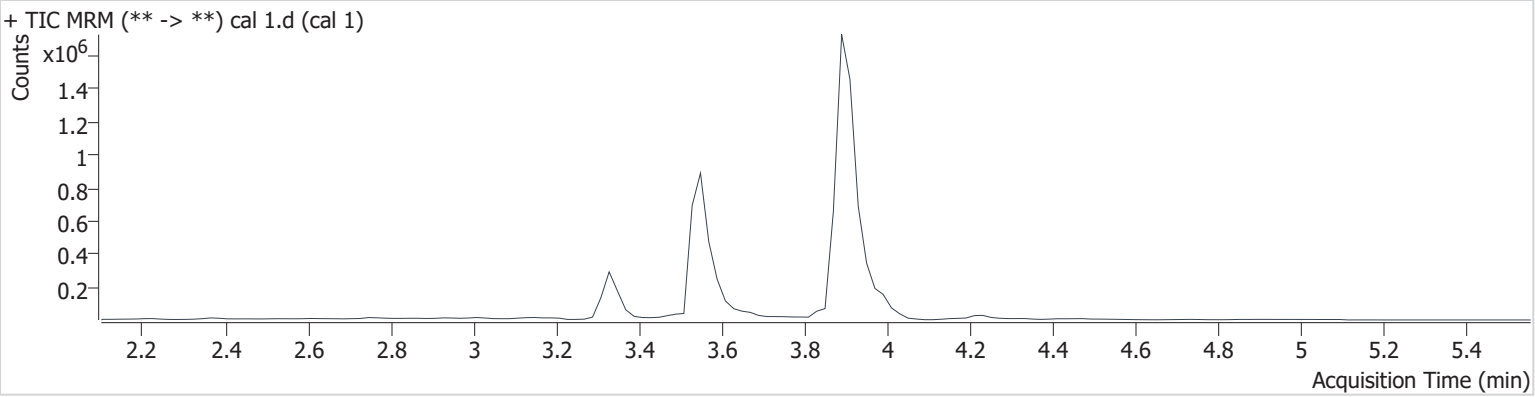
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	111.8
cal 2	2	✔	3.0	2.8	94.3
cal 3	3	✔	5.0	5.1	101.4
cal 4	4	✔	10.0	9.8	97.5
cal 5	5	✔	25.0	23.7	94.9
cal-6	6	✔	50.0	48.6	97.1
cal-7	7	✔	100.0	102.9	102.9

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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	2/10/2021 4:49:31 PM		
Sample Info.			

Sample Chromatogram



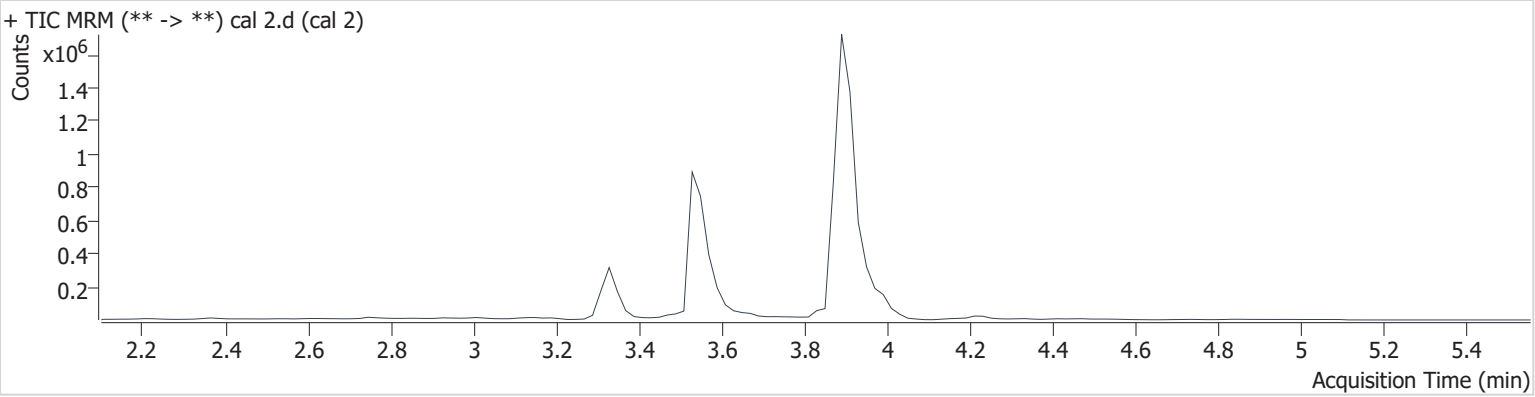
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	3458	410882	1.060 ng/ml **Low**
THC-COOH	3.331	58364	654941	4.906 ng/ml **Low**
THC-OH	3.558	4827	3119983	1.118 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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	2/10/2021 4:56:09 PM		
Sample Info.			

Sample Chromatogram



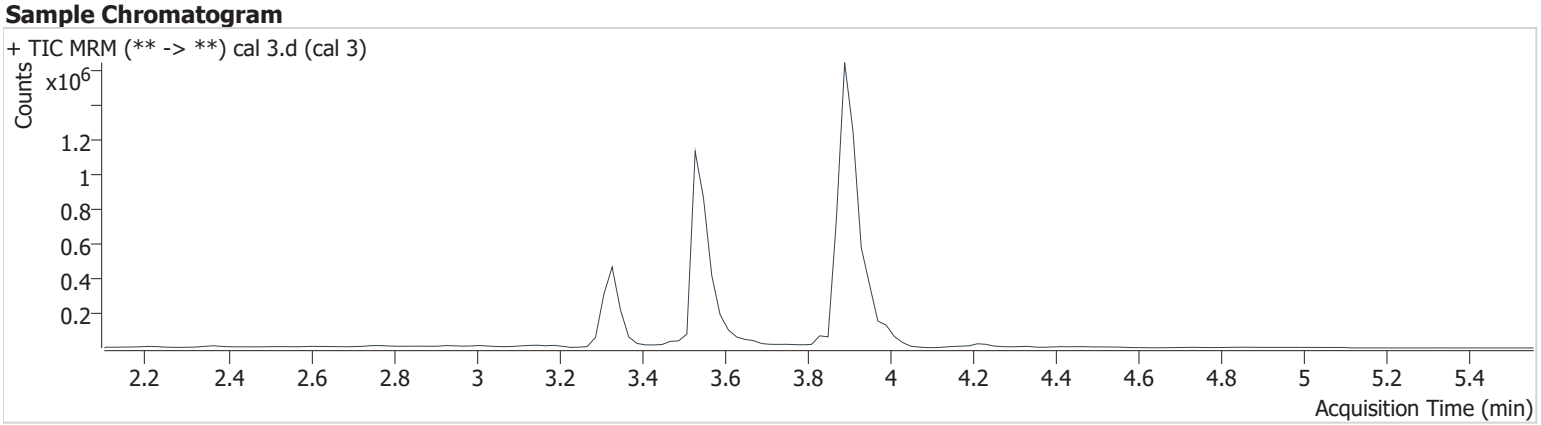
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	10117	411850	3.053 ng/ml
THC-COOH	3.331	101412	612243	10.282 ng/ml
THC-OH	3.558	11510	2902743	2.829 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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	2/10/2021 5:02:46 PM		
Sample Info.			

Sample Chromatogram



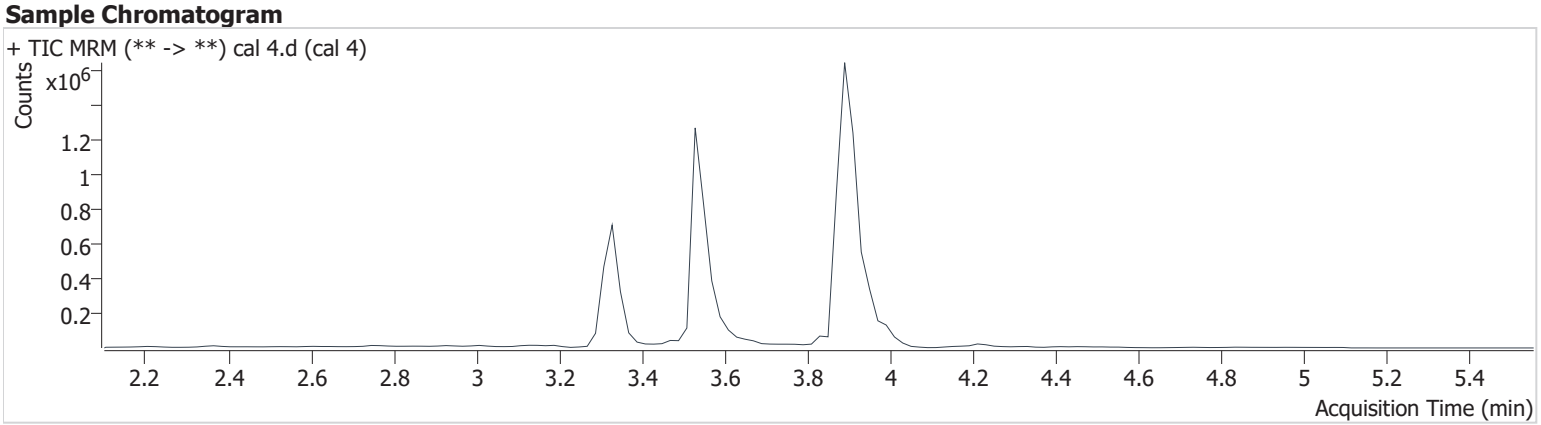
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	16744	435850	4.763 ng/ml
THC-COOH	3.331	226366	738904	20.168 ng/ml
THC-OH	3.558	23603	3310328	5.070 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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	2/10/2021 5:09:22 PM		
Sample Info.			

Sample Chromatogram



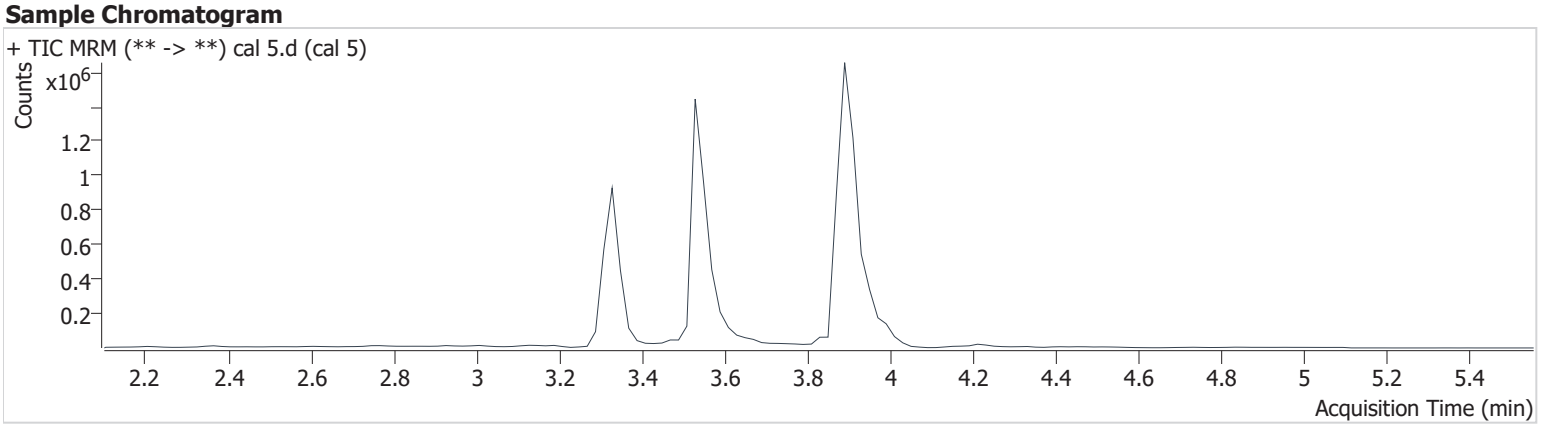
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	34068	430042	9.800 ng/ml
THC-COOH	3.331	505015	705823	48.912 ng/ml
THC-OH	3.538	44100	3208742	9.751 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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	2/10/2021 5:15:58 PM		
Sample Info.			

Sample Chromatogram



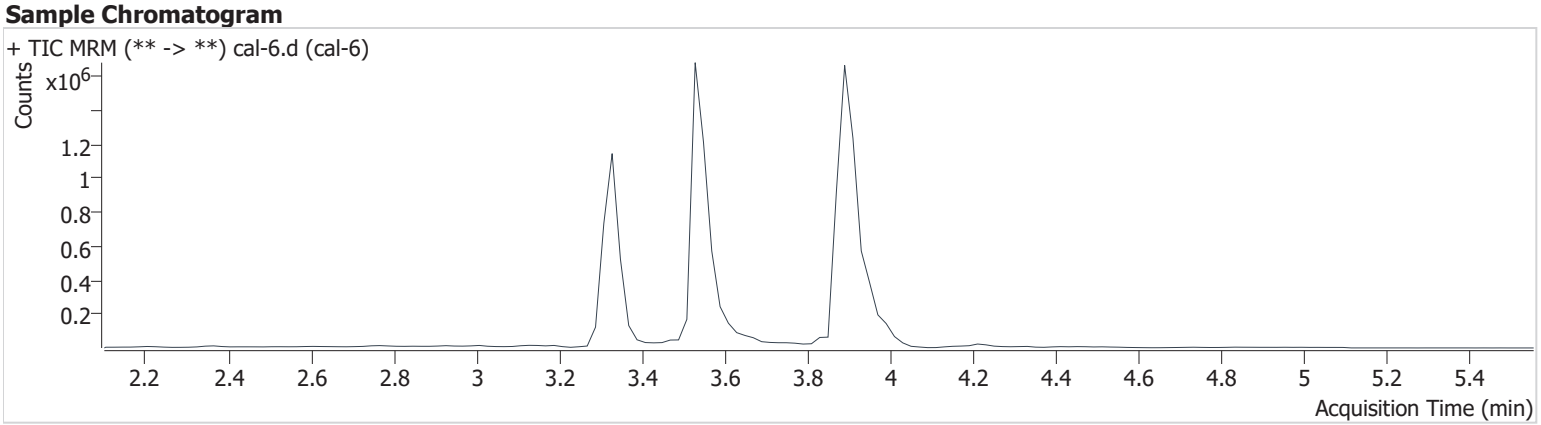
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	81820	415301	24.340 ng/ml
THC-COOH	3.331	748693	678555	76.162 ng/ml
THC-OH	3.538	107039	3195572	23.733 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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	2/10/2021 5:22:34 PM		
Sample Info.			

Sample Chromatogram



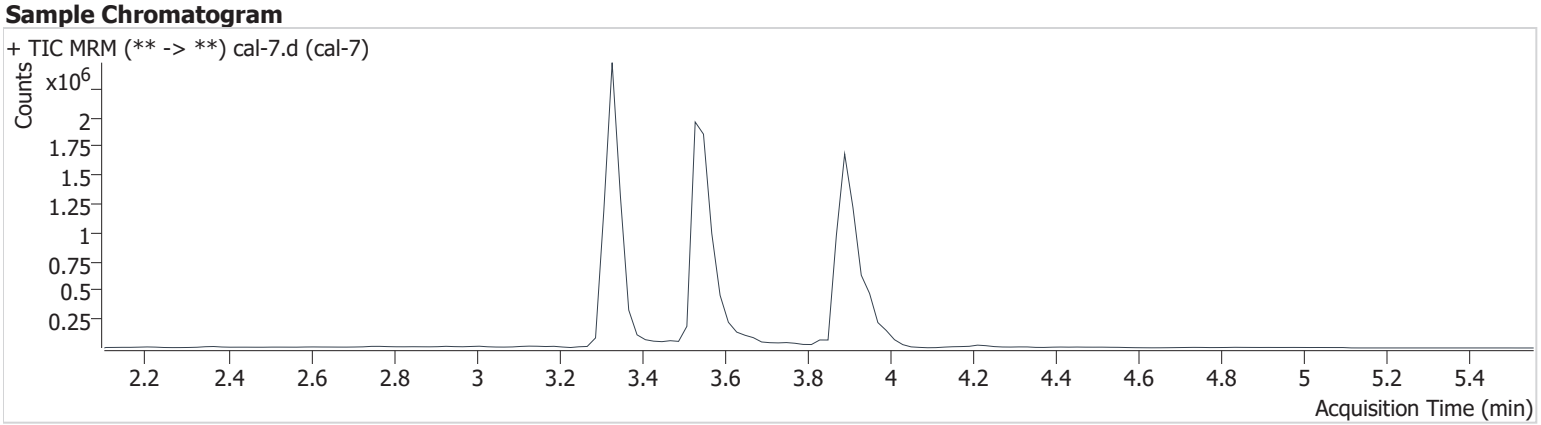
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	175173	427807	50.565 ng/ml
THC-COOH	3.331	985870	694592	98.361 ng/ml
THC-OH	3.538	213048	3107307	48.555 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\021021\QuantResults\cann screen.batch.bin
Calibration Last Update 2/12/2021 12:26:15 PM

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	2/10/2021 5:29:10 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	347032	426674	100.418 ng/ml
THC-COOH	3.331	2336511	649940	251.208 ng/ml
THC-OH	3.558	447282	3076245	102.943 ng/ml