REVIEWED
By Anne Nord at 11:59 am, Apr 30, 2021

4/27/2021

Worklist: 4928

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-0655	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0756	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0871	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0876	6	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0879	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0881	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0888	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0906	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0915	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0930	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0931	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0932	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0968	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0974	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0975	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

4/29/2021

Worklist: 4937

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-0995	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

additional case submitted prior to extraction, separate worklist created, however the sample was extracted on the same plates with the other cases

BW

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

Extraction Date: 4/28/2021 Analyst: Britany Wylie
Plate lot#: 201206 Plate Expiration: 6/6/2021

Mobile phase A: 10mM Amm Form
0.5M Ammonium Hydroxide
Blank Blood Lot: 20K20702
LCMS-QQQ ID: 69679

Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC Methanol
Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

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. **Urine samples add 50ul 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: *blood only batch*

AM 25

4/28/21 WORKLIST 4928

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	871-1	931-1									
B	IS + Cal. 1	876-6	932-1									
C	xxxxx	879-1	968-1									
D		881-1	974-1									
E	neg	888-1	975-1									
F	ext ctrl	906-1	995-1 BW									
G	655-1	915-1										IS + Cal. 1
H	756-1	930-1										IS + Cal. 1

All wells to contain 60 µl of residual DMSO

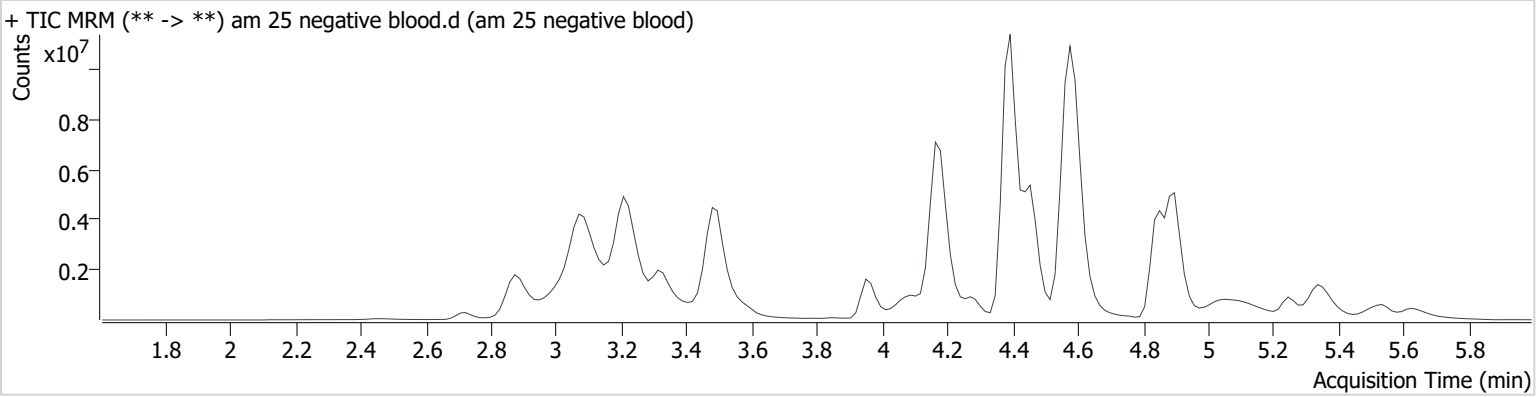
Case #: C2021-0___-

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\mds.batch.bin
Calibration Last Update	4/28/2021 8:08:24 PM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P1-E1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	4/28/2021 1:58:59 PM		
Sample Info.			

Sample Chromatogram

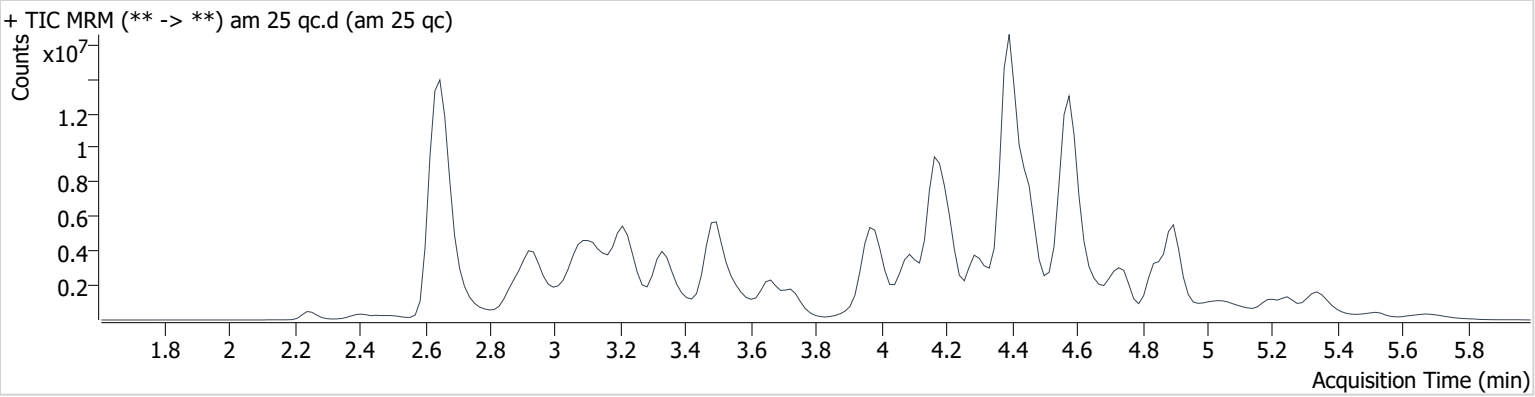


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\mds.batch.bin
Calibration Last Update 4/28/2021 8:08:24 PM

Instrument	69679	**Data File**	am 25 qc.d
Type	Cal	**Sample**	am 25 qc
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P1-A1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	4/28/2021 1:45:34 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.614	48882	33644.7	131.3	1467987	10.000
7-aminoclonazepam	3.331	798226	285.3	220.5	3112196	10.000
7-aminoflunitrazepam	3.558	1309091	420.6	526.7	3112196	10.000
Acetyl Fentanyl	4.686	230226	191.9	127065.6	16522469	10.000
Acetyl Norfentanyl	2.925	175793	596.8	∞	16522469	10.000
a-hydroxyalprazolam	4.302	172540	433.0	54847.8	3112196	10.000
alpha-hydroxymidazolam	4.409	1860855	456.8	601.5	3112196	10.000
alpha-PHP	4.527	2647950	1621.8	3042.3	6377394	10.000
alpha-PVP	4.298	2981213	1703.1	3066.2	6377394	10.000
Alprazolam	4.429	1428203	1129.8	963.4	8658537	10.000
Amitriptyline	5.330	496571	77.1	94.1	2632964	10.000
Amphetamine	2.931	2486595	877.2	451.4	6377394	10.000
Benzoylecgonine	3.072	119514	424.4	100.0	233251	10.000
Brompheniramine	4.748	69662	43.2	8.8	42225311	10.000
Buprenorphine	5.258	436282	833.1	1073.9	2100185	10.000
Bupropion	4.419	2557683	2200.8	1171.2	11099898	10.000
Carbamazepine	3.991	4897010	∞	1532.5	95442	10.000
Carisoprodol	3.973	801235	638.7	82.2	4861237	10.000
Chlordiazepoxide	4.538	682179	320.1	1028.0	8658537	10.000
Chlorpheniramine	4.616	4117216	19235.8	∞	42225311	10.000
Citalopram	4.655	1816066	212.3	190.4	42225311	10.000
Clomimpramine	5.687	689483	1160.4	935.7	42225311	10.000
Clonazepam	4.226	383540	207.9	293.5	8658537	10.000
Clonazolam	4.162	475430	954.8	122108.2	8658537	10.000
Cocaethylene	4.365	3418132	54360.4	309.2	42225311	10.000
Cocaine	4.198	4241566	483.0	121.9	27343650	10.000
Codeine	3.586	353306	∞	56.1	209845	10.000
Cyclobenzaprine	5.194	1077781	261.6	42.3	2632964	10.000
Desipramine	4.724	166921	251.9	10.6	2632964	10.000
Dextromethorphan	5.059	1556499	1471.7	946.6	7966195	10.000
Dextrorphan	3.928	1740236	1847.1	83.5	7966195	10.000
Diazepam	4.676	886153	506.9	856.9	8658537	10.000
Dihydrocodeine	3.176	847698	106.7	242.2	2263330	10.000
Diphenhydramine	4.602	6179455	459.5	405.5	42225311	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.996	883658	159.8	104.5	9850356	10.000
Doxylamine	4.095	6762691	5055.2	4748.4	7966195	10.000
EDDP	4.462	1030885	120.9	294.9	2263330	10.000
Estazolam	4.338	2653681	684.7	4730.5	8658537	10.000
Etizolam	4.455	122420	279194.5	228463.9	8658537	10.000
Fentanyl	4.853	123628	45.8	244888.1	8104121	10.000
Flualprazolam	4.285	580381	251.4	347985.5	8658537	10.000
Flunitrazepam	4.366	1358300	902.2	405476.1	8658537	10.000
Fluoxetine	4.765	500401	199.7	20.4	613227	10.000
Flurazepam	4.820	2436298	727304.4	88110.4	8658537	10.000
Hydrocodone	4.107	983935	147.7	75.9	6623627	10.000
Hydromorphone	2.922	904460	83.3	321.5	209845	10.000
Imipramine	5.343	2313272	1185.2	∞	2632964	10.000
Ketamine	4.220	2375688	2053.4	47.8	13013036	10.000
Lamotrigine	3.409	193755	205.5	289.1	42225311	10.000
Levamisole	3.658	2160983	209.8	195.3	7966195	10.000
Levetireacetam	2.247	631076	13236.7	3641.8	42225311	10.000
Lorazepam	4.210	63586	254.6	∞	8658537	10.000
Maprotiline	5.330	325782	124.0	117.6	2632964	10.000
MDA	3.156	2306157	440.4	291.8	12200158	10.000
MDEA	3.504	3232029	881.0	1612.0	12200158	10.000
MDMA	3.337	3311943	259.9	208.3	12200158	10.000
Meperidine	4.296	2013975	1209.0	240.8	7966195	10.000
Meprobamate	3.366	263611	257.3	79.3	4861237	10.000
Methadone	4.901	3738978	997.3	3274.3	2263330	10.000
Methamphetamine	3.127	10882993	∞	141.4	12200158	10.000
Methocarbamol	3.273	123796	105.7	191.3	2263330	10.000
Methylphenidate	3.976	6719226	∞	285.7	13013036	10.000
Metoprolol	3.666	543989	602.3	10183.5	7966195	10.000
Midazolam	4.624	387732	275099.5	1035.2	8658537	10.000
Mirtazapine	4.724	2105183	5976.0	1040.6	7966195	10.000
Mitragynine	4.864	194597	53181.9	787424.0	7966195	10.000
Morphine	2.515	261328	745.8	1439.0	209845	10.000
Norbuprenorphine	4.544	40895	144.7	18695.1	2100185	10.000
Nordiazepam	4.494	586880	310676.5	829.9	8658537	10.000
Norfentanyl	3.502	3025544	8930.4	216.3	16522469	10.000
Norhydrocodone	3.315	41741	127.4	3.8 **Low**	6623627	10.000
norketamine	4.023	424352	88.3	10665.1	13013036	10.000
Normeperidine	3.961	1366304	242.0	180.8	42225311	10.000
Noroxycodone	3.085	745381	59.8	90.9	8027384	10.000
Nortriptyline	5.529	217186	44.1	32.9	2632964	10.000
O-desmethyl-tramadol	2.940	5259984	13311.8	132.9	42225311	10.000
Olanzapine	4.581	330354	535.6	177.1	95442	10.000
Oxazepam	4.292	355630	111.2	100.6	1682409	10.000
Oxycodone	3.372	1663685	153.7	39.3	8027384	10.000
Oxymorphone	2.404	1243444	8437.9	8896.5	209845	10.000
Paroxetine	5.805	11746	8.3	42.6	613227	10.000
Phenazepam	4.454	888893	967.0	229633.6	8658537	10.000
Phencyclidine	4.404	3564069	193.9	262.6	7966195	10.000
Phentermine	3.232	33964	27.3	21.5	13013036	10.000
Phenytoin	3.882	152186	534.0	75.2	95442	10.000
Promethazine	5.206	2476443	1615.5	303.8	42225311	10.000
Pseudoephedrine	2.657	58025132	1085.3	787.1	12200158	10.000
Quetiapine	4.744	3093451	15539.4	631.9	24227170	10.000
Sertraline	5.520	269216	453.2	144.5	613227	10.000
Sufentanil	5.064	83622	9263.0	204.6	16522469	10.000
Tapentadol	3.672	3817031	1432.1	5500.2	2263330	10.000
Temazepam	4.476	1681202	428.8	356.5	8658537	10.000
Tramadol	3.727	5593182	∞	22.6	42225311	10.000
Trazodone	4.897	1992333	3019.9	473.5	9850356	10.000

am 25 qc

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	4.200	4699141	410.3	600.7	613227	10.000
Zaleplon	4.152	898832	1681.8	323.5	24227170	10.000
Zolpidem	4.398	5442966	2423892.7	1308.0	24227170	10.000
Zopiclone	4.437	572358	465.2	891.7	2903438	10.000

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\mds.batch.bin
Calibration Last Update	4/28/2021 8:08:24 PM

Instrument	69679	**Data File**	am 25 qc2.d
Type	Sample	**Sample**	am 25 qc2
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P1-C1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	4/28/2021 1:52:16 PM		
Sample Info.			

Sample Chromatogram

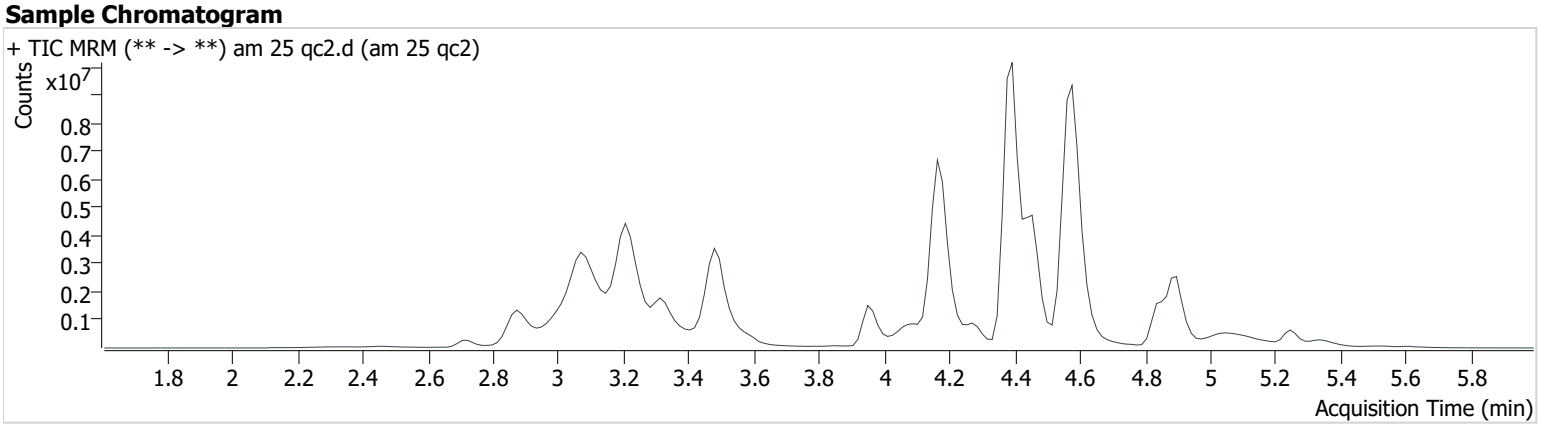


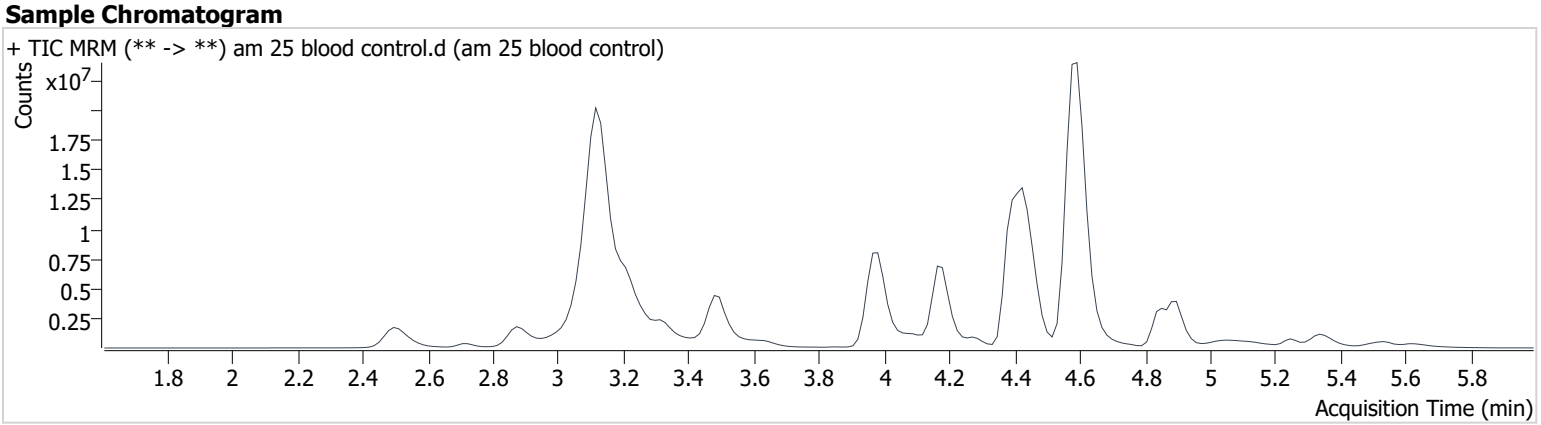
plate map from previous batch used. sample well C1 contained only internal standard BW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\mds.batch.bin
Calibration Last Update 4/28/2021 8:08:24 PM

Instrument	69679	**Data File**	am 25 blood control.d
Type	Sample	**Sample**	am 25 blood control
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P1-F1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	4/28/2021 2:05:40 PM		
Sample Info.			

Sample Chromatogram



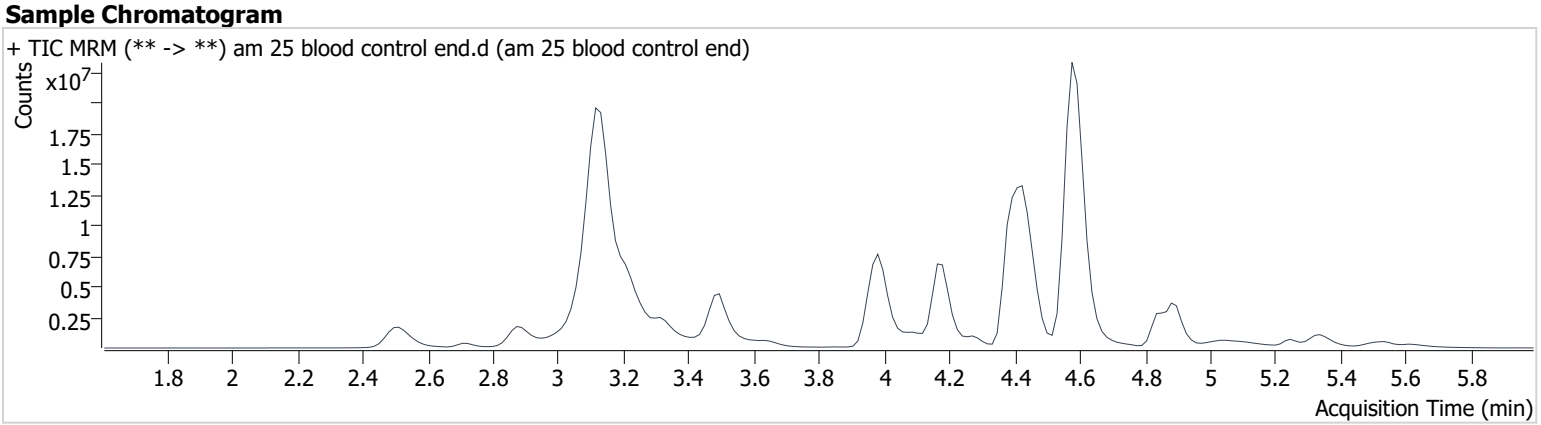
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.429	15215198	2566.3	2090.1	9518648	96.907
Diphenhydramine	4.602	50665944	37196.2	28078.8	37422088	92.515
Methamphetamine	3.127	47807888	∞	∞	17169852	31.214
Methocarbamol	3.273	1468002	1886.4	1286.1	2190910	122.502
Methylphenidate	3.991	24664068	1525.9	775.3	13549453	35.254
Morphine	2.500	2864211	∞	13653.6	206476	111.390

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\mds.batch.bin
Calibration Last Update 4/28/2021 8:08:24 PM

Instrument	69679	**Data File**	am 25 blood control end.d
Type	Sample	**Sample**	am 25 blood control end
Acq. Method	mds 826.m	**Operator**	Britany Wylie
Sample Position	P1-F1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	4/28/2021 3:59:40 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.429	15185349	93951.4	4318.6	9594107	95.957
Diphenhydramine	4.602	47835751	1569.6	1520.8	34403231	95.011
Methamphetamine	3.142	47294469	2801.1	∞	16901312	31.369
Methocarbamol	3.273	1484675	2713.7	1595.3	2078999	130.563
Methylphenidate	3.991	23319972	797.6	1737.0	13099554	34.477
Morphine	2.515	2878766	10794.9	16615.2	214546	107.746

Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendydramine, methamphetamine, alprazolam, methocarbamol, methylphenidate, morphine

Stock solution 1mg/ml 50 ul each in 4700 ul MeOH (Honeywell EA078-US)

ppd 4/14/21: Exp: 4/14/2022 lot 41422 by AMN

Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
methocarbamol	FN01212005	1/1/2023
alprazolam	FE06102008	6/1/2025
Diphendydramine	FN02212011	3/1/2025
Methylphenidate	FE01212007	2/1/2025
Morphine	FE03232010	4/1/2025

AM 25/28 control 500 ul working solution (41422) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 4/14/22, exp 4/14/22 lot u41422 negative urine 2121 by AMN

AM 25/28 Blood Control: 50ul working solution (41422) in 4950 ul neg blood (100ng/mL Expected concentration)

ppp 4/14/21, exp 4/14/22 lot b41422 neg blood 20J20793 by AMN

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

Extraction Date: 4/28/2021 Analyst: Britany Wylie
Plate lot#: 201206 Plate Expiration: 6-6-2021

Mobile phase A: 10mM Ammonium Formate **Mobile phase B:** 0.1% Formic acid in MeOH
0.1% Formic Acid in Water MTBE Hexane
1N KOH Saturated Phosphate Buffer
Blank Blood Lot: 20K20702
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 **800 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 1 ng/mL or greater for THC, 3 ng/mL or greater for THC-OH, and/or 5 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: *blood only batch; cal 5 was used for a control in a different analytical run and was not extracted or run with this batch. Cal curves for THC, THC-COOH and THC-OH included all other points.*

am 26

4/28/21 WORKLIST 4928

	1	2	3	4	5	6
A	IS + Cal. 1	neg blood	906-1	995-1 BW		IS + QC_1
B	IS + Cal. 2	655-1	915-1			IS + Cal. 7
C	IS + Cal. 3	756-1	930-1			IS + Cal. 6
D	IS + Cal. 4	871-1	931-1			IS + Cal. 5
E	IS + Cal. 5	876-6	932-1			IS + Cal. 4
F	IS + Cal. 6	879-1	968-1			IS + Cal. 3
G	IS + Cal. 7	881-1	974-1			IS + Cal. 2
H	IS + QC_1	888-1	975-1			IS + Cal. 1

All wells to contain 100 µl of residual DMSO

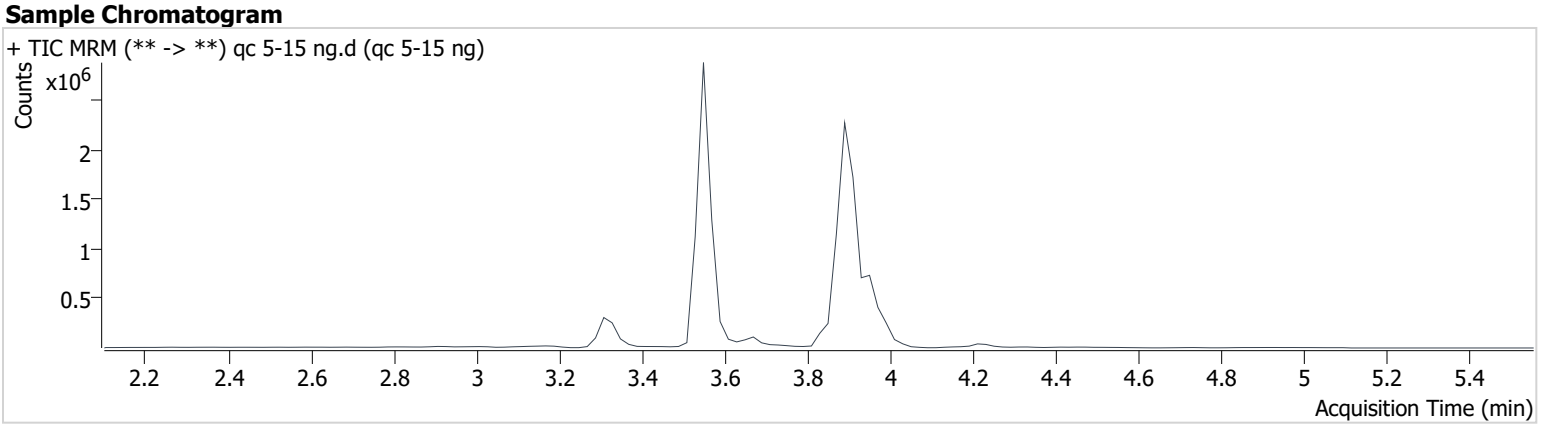
Case #: C2021-0____-__

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 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**	Britany Wylie
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 5:26:02 PM		
Sample Info.			

Sample Chromatogram



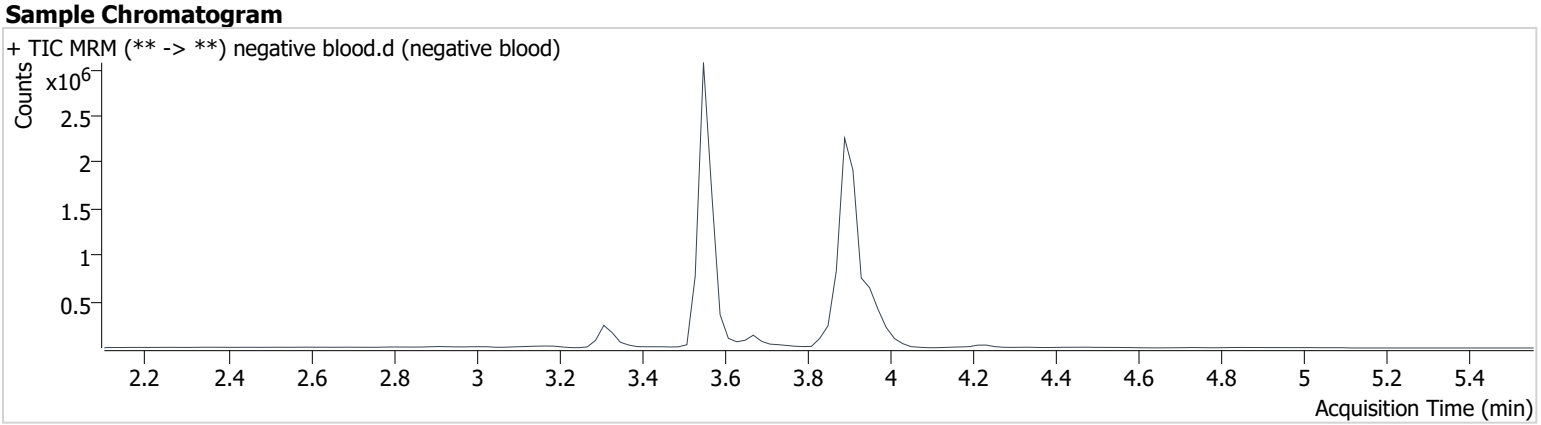
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	3.964	31956	925152	3.931	ng/ml
THC-COOH	3.331	114503	598215	14.819	ng/ml
THC-OH	3.558	40820	6451391	4.106	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 5:32:38 PM		
Sample Info.			

Sample Chromatogram

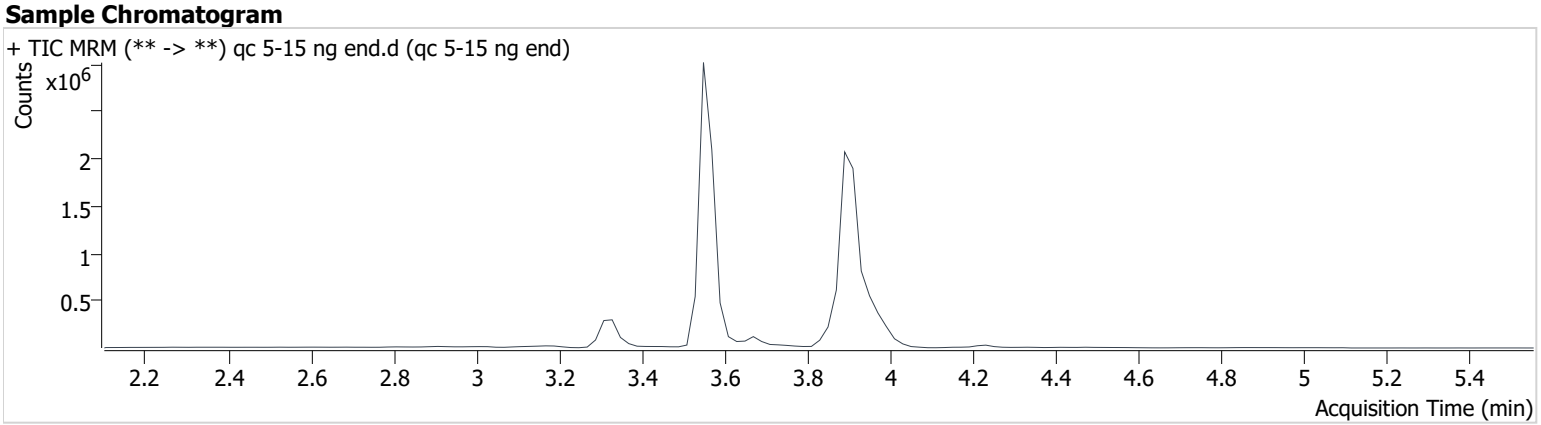


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	qc 5-15 ng end.d
Type	QC	**Sample**	qc 5-15 ng end
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 7:24:50 PM		
Sample Info.			

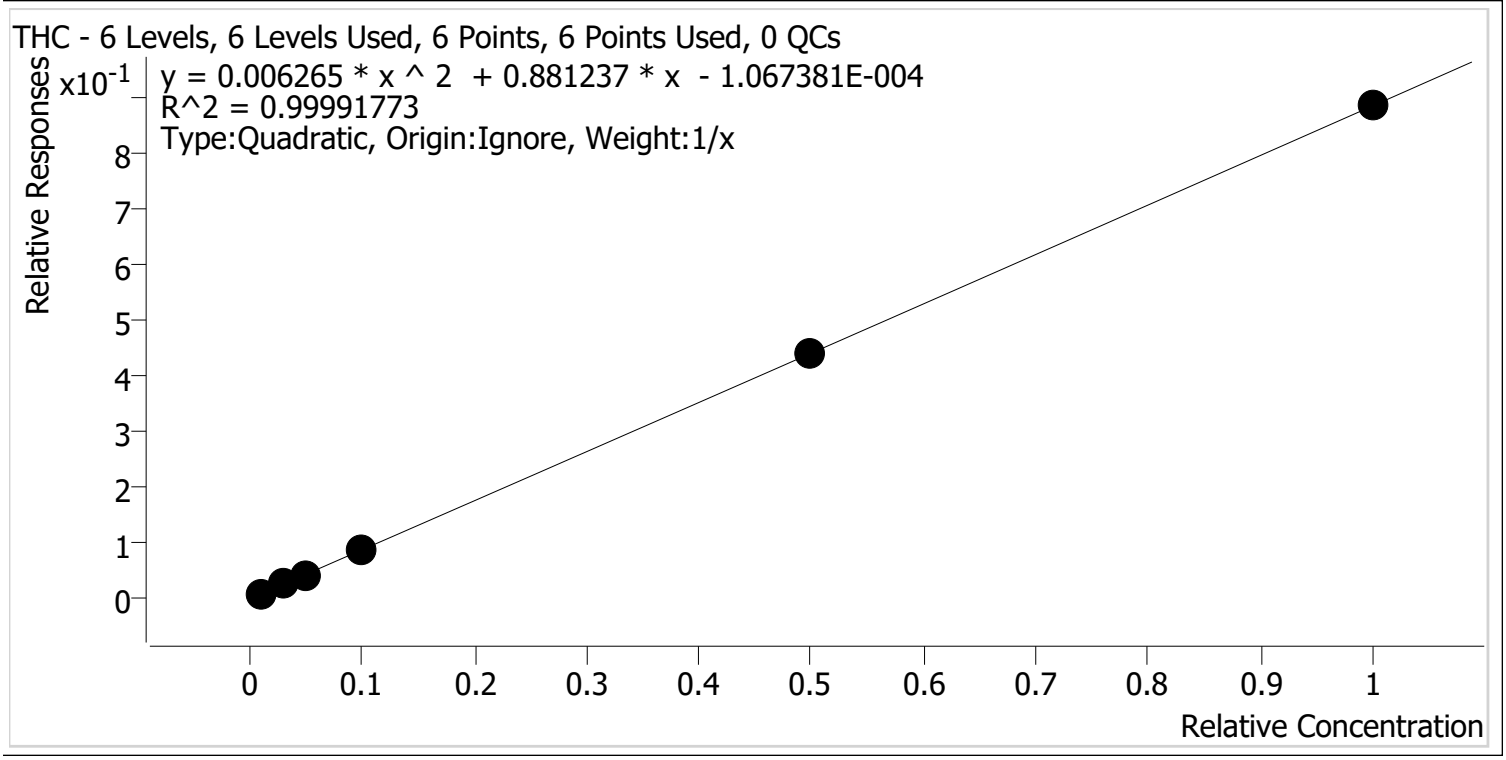
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	3.964	22131	644630	3.907	ng/ml
THC-COOH	3.331	118516	642236	14.304	ng/ml
THC-OH	3.558	44106	7523728	3.807	ng/ml

Compound Calibration Report

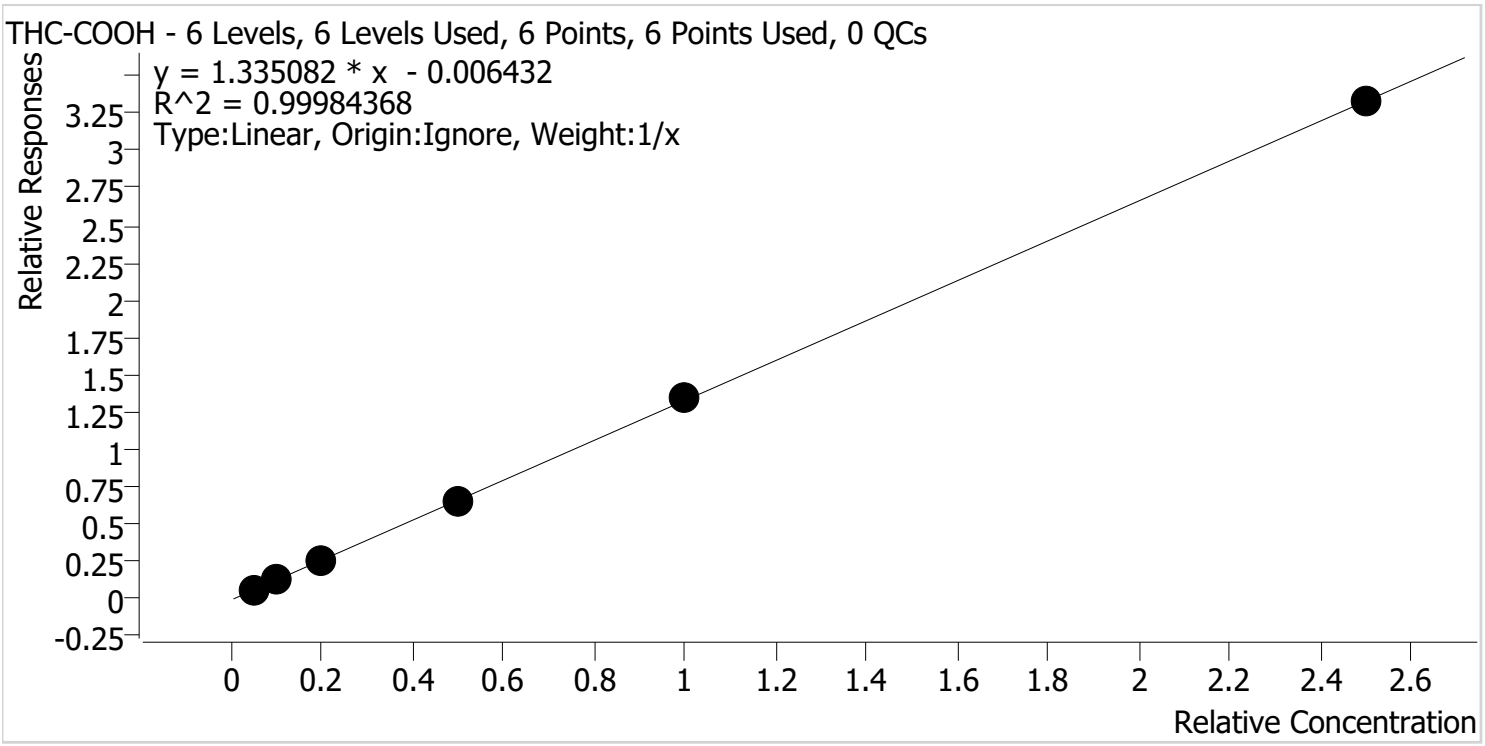
Batch results	D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Last Cal. Update	4/28/2021 8:12 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.0	103.5
cal 2	2	✔	3.0	2.8	94.5
cal 3	3	✔	5.0	5.0	100.9
cal 4	4	✔	10.0	10.1	101.2
cal-6	6	✔	50.0	50.0	99.9
cal-7	7	✔	100.0	100.0	100.0

Compound Calibration Report

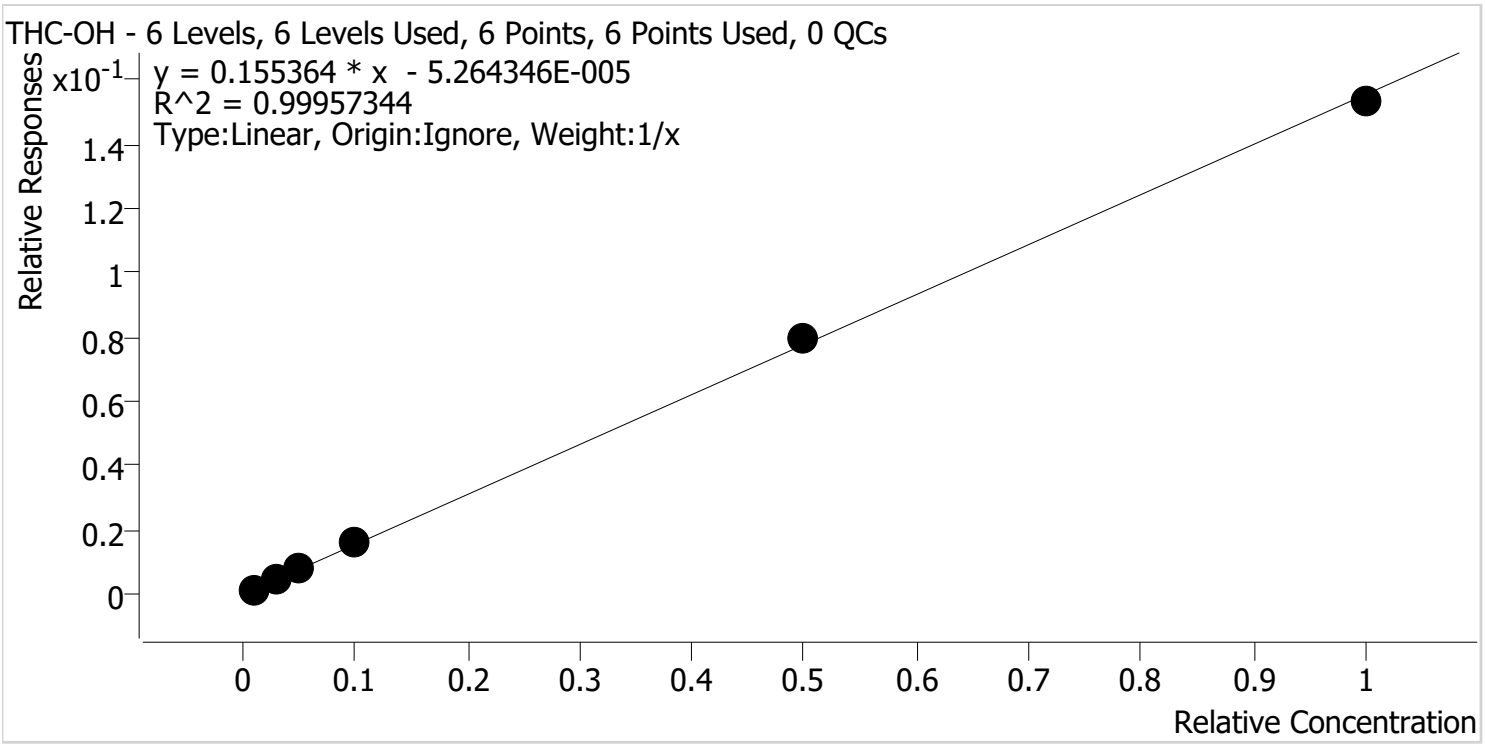
Batch results	D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Last Cal. Update	4/28/2021 8:12 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	5.1	102.1
cal 2	2	✔	10.0	9.9	99.2
cal 3	3	✔	20.0	19.9	99.6
cal 4	4	✔	50.0	48.8	97.7
cal-6	6	✔	100.0	101.5	101.5
cal-7	7	✔	250.0	249.7	99.9

Compound Calibration Report

Batch results	D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Last Cal. Update	4/28/2021 8:12 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



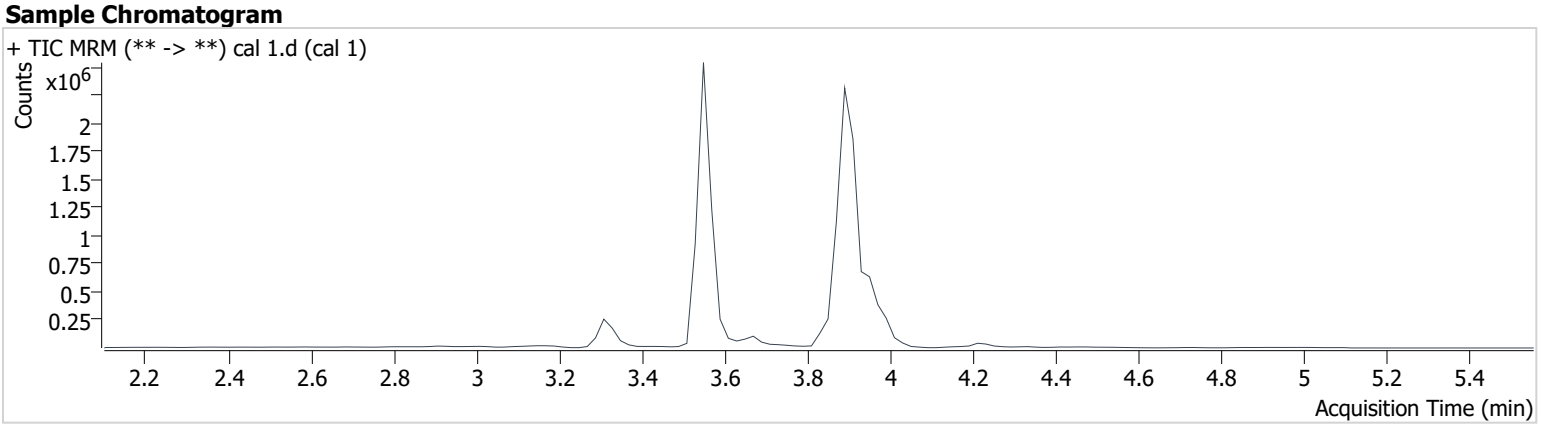
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.0	96.7
cal 2	2	✔	3.0	2.9	97.3
cal 3	3	✔	5.0	5.2	103.1
cal 4	4	✔	10.0	10.2	102.0
cal-6	6	✔	50.0	51.2	102.4
cal-7	7	✔	100.0	98.5	98.5

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	cal 1.d
Type	Cal	**Sample**	cal 1
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 4:39:54 PM		
Sample Info.			

Sample Chromatogram



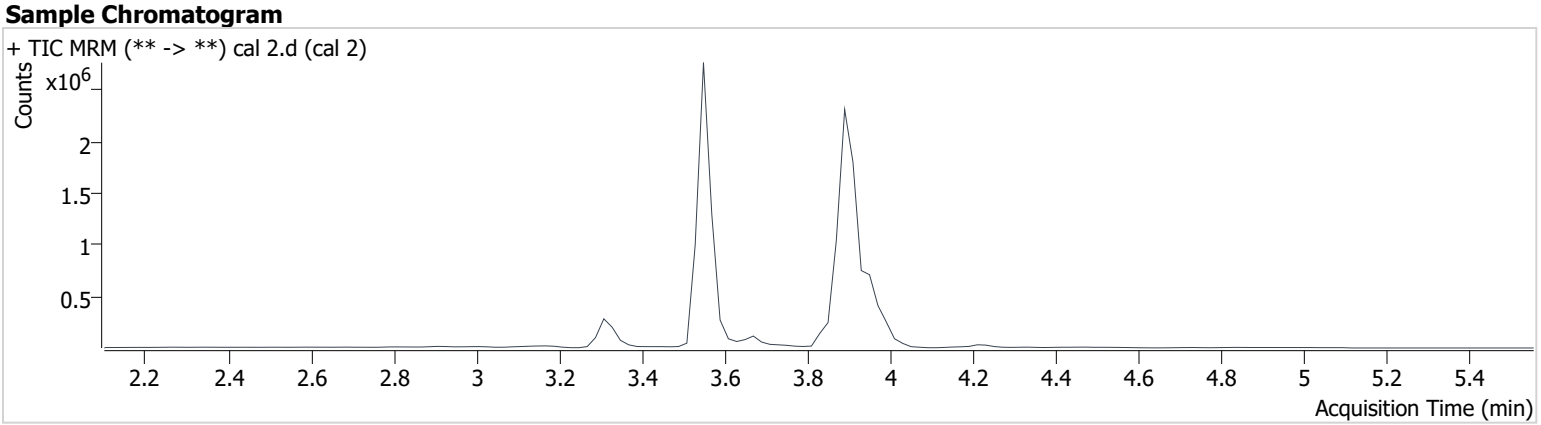
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	3.964	6952	771134	1.035	ng/ml	**Low**
THC-COOH	3.331	36471	590894	5.105	ng/ml	**Low**
THC-OH	3.558	8652	5967840	0.967	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update	4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	cal 2.d
Type	Cal	**Sample**	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 4:46:32 PM		
Sample Info.			

Sample Chromatogram



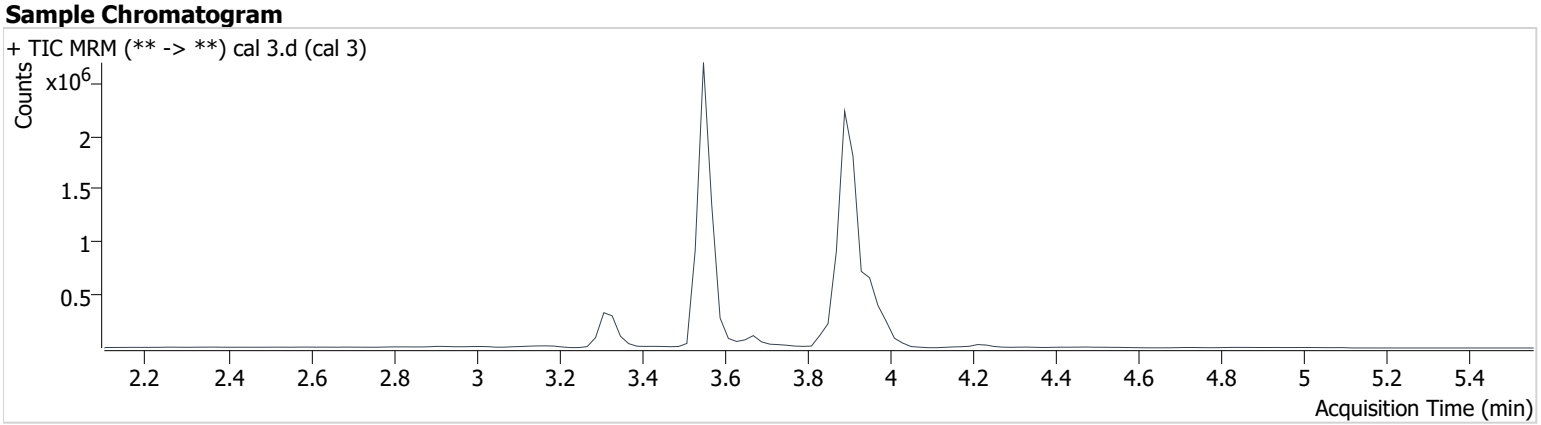
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	3.964	22307	896812	2.834	ng/ml	**Low**
THC-COOH	3.331	74459	590998	9.918	ng/ml	**Low**
THC-OH	3.558	28219	6298147	2.918	ng/ml	**Low**

AM #26 Cannabinoids Screen Results BWylie

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	cal 3.d
Type	Cal	**Sample**	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 4:53:08 PM		
Sample Info.			

Sample Chromatogram



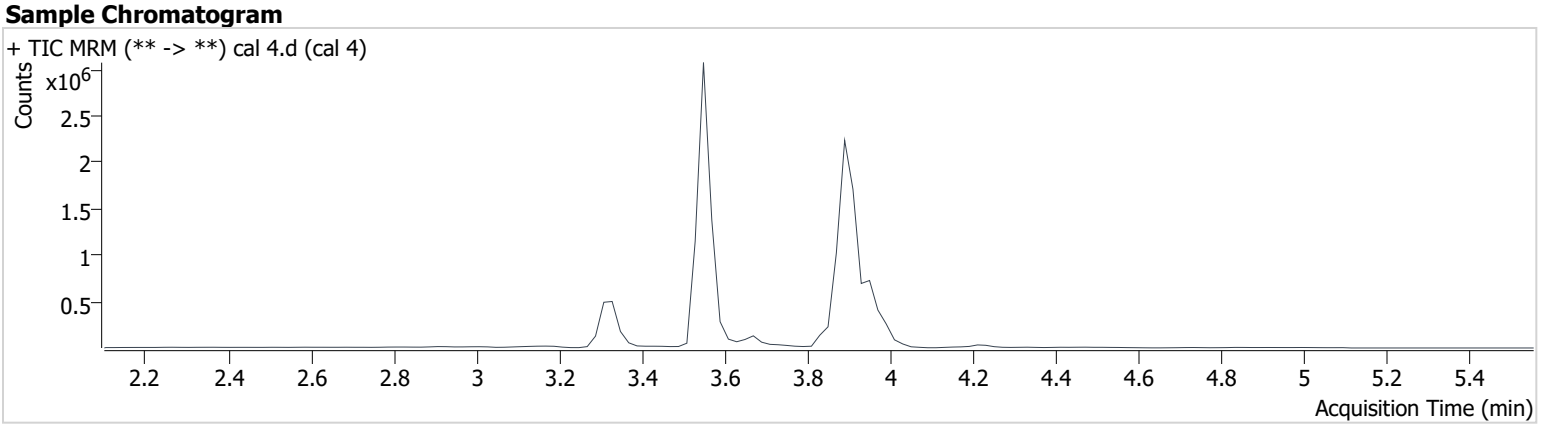
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	3.964	36518	822783	5.047	ng/ml
THC-COOH	3.331	156717	603609	19.929	ng/ml
THC-OH	3.558	47658	5991921	5.153	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	cal 4.d
Type	Cal	**Sample**	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 4:59:44 PM		
Sample Info.			

Sample Chromatogram



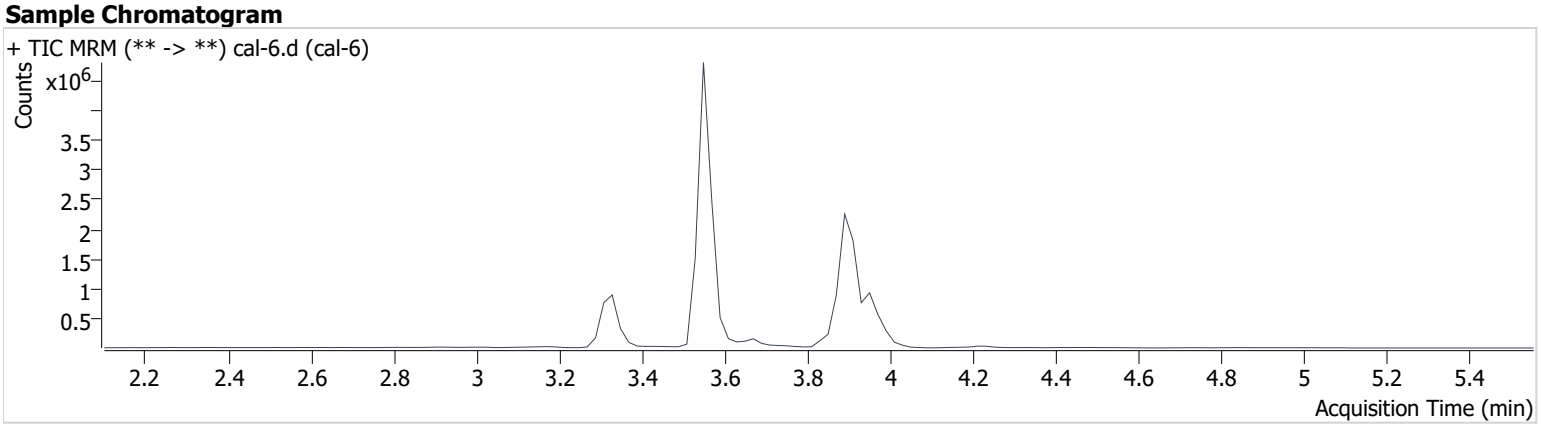
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	3.964	78450	880329	10.117	ng/ml
THC-COOH	3.331	385366	596880	48.841	ng/ml
THC-OH	3.558	99636	6308816	10.199	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	cal-6.d
Type	Cal	**Sample**	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 5:06:20 PM		
Sample Info.			

Sample Chromatogram



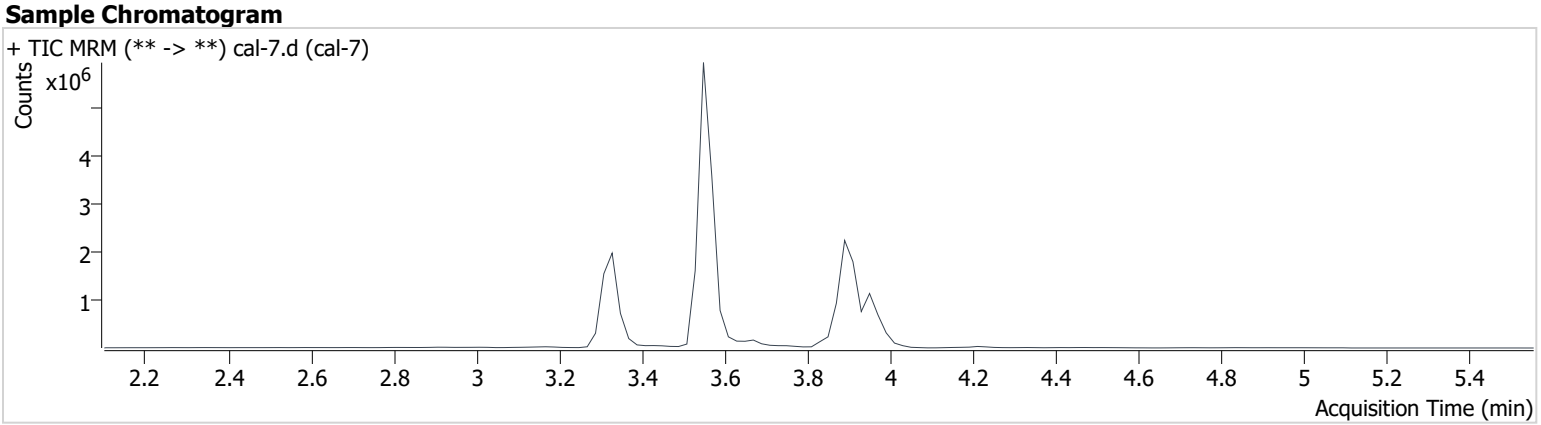
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	3.964	410298	928995	49.953	ng/ml
THC-COOH	3.331	806628	597994	101.516	ng/ml
THC-OH	3.558	532139	6691701	51.218	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\042821\QuantResults\thcs.batch.bin
Calibration Last Update 4/28/2021 8:12:15 PM

Instrument	69679	**Data File**	cal-7.d
Type	Cal	**Sample**	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Britany Wylie
Sample Position	P3-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/28/2021 5:12:56 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	3.964	795983	896859	100.014	ng/ml
THC-COOH	3.331	1998463	600653	249.691	ng/ml
THC-OH	3.558	970677	6342225	98.544	ng/ml