

REVIEWED

By Amber Gerheart at 8:43 am, Apr 20, 2023

4/14/2023









cg

Worklist: 6333

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-1024	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-1145	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-1154	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-1226	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-1317	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-1355	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-1389	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0826	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0828	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0892	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0902	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0903	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0904	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0938	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0940	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0946	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0953	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0960	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0964	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0973	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0974	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 6333

cg

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2023-0975	1	BLOOD*	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0976	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-0982	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-1021	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-1023	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-1024	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-1025	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-1033	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

*Item is a blood collection kit.

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

Extraction Date: 04/13/2023

Plate lot#: 230119

Mobile phase A: 10mM Amm Form

Instant Buffer I

Blank Blood Lot: Lampire 23A52593

LCMS-QQQ ID: 069901

Analyst: Celena Shrum

Plate Retest Date: 07/19/2023

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. Using a calibrated pipette, pipette **250µL blood** into wells of analytical (standards) plate. **Pipette ID: 42** CS 4/20/23
- 3. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Transfer **200-450µL of blood+base and** mixture to corresponding wells of SLE+ plate.
Amount transferred: 300µl
- 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: 067104
- 7. Wait 5 minutes.
- 8. Add **900uL ethyl acetate**.
- 9. Wait 5 minutes.
- 10. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**.
- 11. Add **900uL ethyl acetate**.
- 12. Wait 5 minutes.
- 13. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left)**.
- 14. Remove plate containing eluate.
- 15. Add 50µl of 1% HCl in MeOH to all wells in the run and place ACT cover on top of plate prior to drying.
- 16. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 17. Reconstitute in **100µL 20% 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 of 5 or greater or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? If no, describe issue in comments (below).
- 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*				NEG Blood	P2023-0826-1	P2023-0946-1	P2023-0982-2				
B					M2023-1024-1	P2023-0828-1	P2023-0953-1	P2023-1021-1				
C					M2023-1145-2	P2023-0892-3	P2023-0960-2	P2023-1023-1				
D					M2023-1154-1	P2023-0902-1	P2023-0964-1	P2023-1024-1				
E					M2023-1226-3	P2023-0903-1	P2023-0973-2	P2023-1025-1				
F					M2023-1317-2	P2023-0904-1	P2023-0974-1	P2023-1033-1				
G					M2023-1355-3	P2023-0938-4	P2023-0975-1	CAL*				
H					M2023-1389-1	P2023-0940-1	P2023-0976-1					

*Cal moved during SLE portion of the extraction. Samples were all moved to columns 1-4 during the SLE portion of the extraction (A5 moved to A1, A8 moved to A4, etc.)

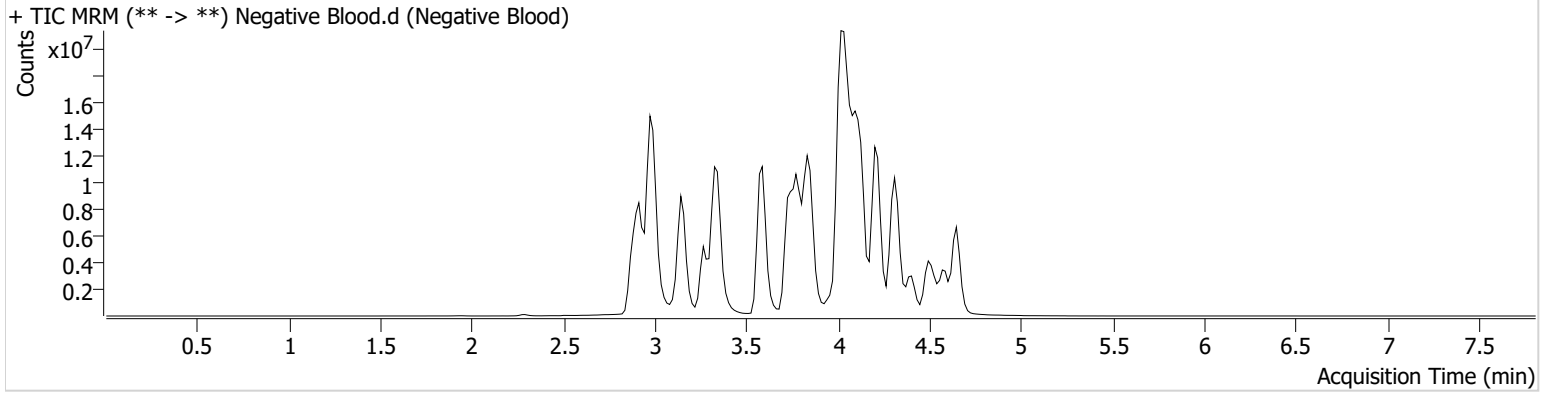
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/18/2023 9:49:23 AM

Instrument	Falco (069901)	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-A1	Comment	
Injection Volume	5		
Acq. Date-Time	4/13/2023 7:13:40 PM		
Sample Info.			

Sample Chromatogram



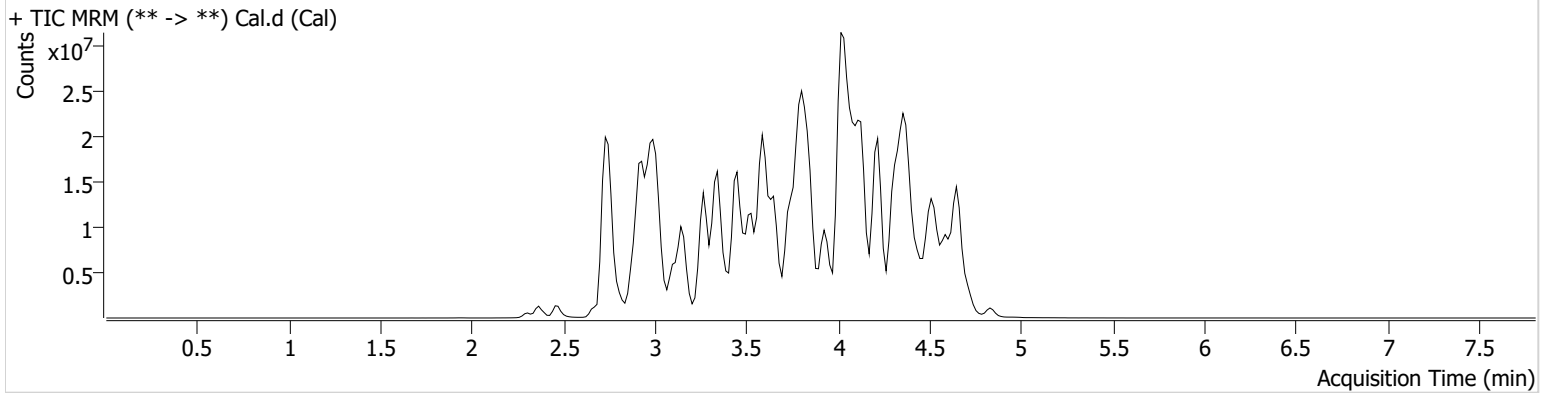
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/18/2023 9:49:23 AM

Instrument	Falco (069901)	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-G4	Comment	
Injection Volume	5		
Acq. Date-Time	4/13/2023 7:05:06 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.778	4074427	293.64	1771.43	26527363	10.0000
6-MAM	2.911	74736	776.12	51791.11	1859347	10.0000
7-aminoclonazepam	3.605	1031769	200.40	454.56	3767046	10.0000
7-aminoflunitrazepam	3.805	1643614	724.66	888.23	3767046	10.0000
9-Hydroxyrisperidone	3.844	10475069	4253745.92	314702.90	37370888	10.0000
Acetyl Fentanyl	3.802	626929	610.73	192786.92	39082004	10.0000
Acetyl Norfentanyl	2.919	624767	6259.62	5612.53	39082004	10.0000
a-hydroxyalprazolam	4.510	478027	214.32	471.10	3767046	10.0000
alpha-hydroxymidazolam	4.585	3380863	377.85	281.08	3767046	10.0000
Alpha-PHP	3.809	4709127	2399.29	1565.98	39082004	10.0000
alpha-PVP	3.549	7649775	1307.66	376.16	14653136	10.0000
Alprazolam	4.605	4105897	455.24	147.36	29317994	10.0000
Amitriptyline	4.409	2435021	205.73	152.19	6921006	10.0000
Amphetamine	2.923	3770689	945.15	804.29	14653136	10.0000
Benzoyllecgonine	3.405	449147	71873.71	496.13	624005	10.0000
Brompheniramine	4.033	186497	564.67	704.86	53618109	10.0000
Buprenorphine	4.320	989403	423.42	49845.20	3627703	10.0000
Bupropion	3.748	6103787	13790.43	957.70	26735921	10.0000
Carbamazepine	4.242	14307011	∞	739.77	445012	10.0000
Carisoprodol	4.225	2380491	240837.16	105.75	10257285	10.0000
Chlordiazepoxide	4.714	2096973	604.58	4002.06	29317994	10.0000
Chlorpheniramine	3.945	12517039	25442.69	90.76	15272516	10.0000
Chlorpromazine	4.588	1795831	624400.41	760.58	8142686	10.0000
Citalopram	4.063	4121358	11798.90	3896.94	53618109	10.0000
Clomipramine	4.589	2885635	12303.84	9070.79	53618109	10.0000
Clonazepam	4.434	2841816	537.36	380.78	445012	10.0000
Clonazepam	4.369	2432926	1292243.22	262229.45	29317994	10.0000
Clozapine	4.217	6802473	4476.62	8941.98	27292919	10.0000
Cocaehtylene	3.787	7344843	3747.76	7837.67	34461538	10.0000
Cocaine	3.588	7911276	983.82	536.81	34461538	10.0000
Codeine	2.808	592868	4010.86	1016.08	11607689	10.0000
Cyclobenzaprine	4.332	4340062	420.48	125.42	6921006	10.0000
Desipramine	4.363	6281145	608.83	1117.83	6921006	10.0000
Dextromethorphan	4.070	3105153	286.14	351.02	15272516	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrophan	3.392	4856020	1274.87	1328.09	15272516	10.0000
Diazepam	4.838	1585793	647.10	989.32	29317994	10.0000
Dihydrocodeine	2.761	1488607	551.27	354.32	11607689	10.0000
Diphenhydramine	4.024	15124919	19976.03	1216.79	53618109	10.0000
DMT	2.998	692387	4040.86	2392.23	15272516	10.0000
Doxepin	4.130	3029271	402.91	728.22	28974551	10.0000
Doxylamine	3.652	17656269	343.80	15896.16	15272516	10.0000
Duloxetine	4.314	68297	6586.95	10661.51	815171	10.0000
EDDP	4.084	1211447	∞	195.92	2152414	10.0000
Estazolam	4.529	11437781	4322.81	377.22	29317994	10.0000
Etizolam	4.631	301715	310100.46	703.35	29317994	10.0000
Fentanyl	4.031	391442	168.30	102011.22	24242235	10.0000
Flualprazolam	4.478	1643592	18858.16	17525.96	29317994	10.0000
Flunitrazepam	4.543	3995893	2340.23	953.42	29317994	10.0000
Fluorofentanyl	4.046	567086	57403.41	473.32	24242235	10.0000
Fluoxetine	4.313	2697916	177851.13	113.35	3753022	10.0000
Flurazepam	4.137	5288014	186230.65	888.92	29317994	10.0000
Hydrocodone	2.991	2322260	7435.71	344.52	11607689	10.0000
Hydromorphone	2.460	2342431	7240.99	19201.82	300738	10.0000
Hydroxyzine	4.445	4924764	2316.03	2547.74	27292919	10.0000
Imipramine	4.362	9028504	1435.87	1380.17	6921006	10.0000
Ketamine	3.441	4396578	2183.15	288.00	19118146	10.0000
Lamotrigine	3.577	458413	5330.75	903.88	53618109	10.0000
Levamisole	2.965	4613895	36197.87	785.14	34461538	10.0000
Levetiracetam	2.677	1339283	1280.44	1473.68	53618109	10.0000
Lorazepam	4.434	747382	161.94	77.86	29317994	10.0000
Maprotiline	4.409	1853879	143.14	517.63	6921006	10.0000
MDA	3.028	5542339	1007.01	81.97	39050332	10.0000
MDEA	3.257	7464494	920.51	624.86	39050332	10.0000
MDMA	3.104	8692432	2488.99	759.94	39050332	10.0000
Meperidine	3.608	3942876	1756.03	8540.14	15272516	10.0000
Meprobamate	3.688	2269616	1532.63	700.67	10257285	10.0000
Methadone	4.374	12994716	580.35	1295.77	2152414	10.0000
Methamphetamine	3.014	11053049	5116.73	3988.51	39050332	10.0000
Methocarbamol	3.594	724764	3716.24	103.21	2152414	10.0000
Methylphenidate	3.518	18353505	1527.40	580.65	25873399	10.0000
Metoprolol	3.453	1302695	712.80	538.65	15272516	10.0000
Midazolam	4.710	1272557	674.23	1119.32	29317994	10.0000
Mirtazapine	3.807	4696519	12119.05	4070.55	15272516	10.0000
Mitragynine	4.152	800140	441566.27	767380.51	15272516	10.0000
Morphine	2.308	408896	342.06	222.48	300738	10.0000
Norbuprenorphine	3.829	138034	87.06	51969.45	3627703	10.0000
Nordiazepam	4.686	2194195	∞	266.10	29317994	10.0000
Norfentanyl	3.348	11097262	46460.29	2155.04	39082004	10.0000
Norhydrocodone	2.947	186632	103.12	49.61	300738	10.0000
Norketamine	3.488	1318021	505.81	3023.13	19118146	10.0000
Normeperidine	3.610	9453889	3985829.65	1989.95	53618109	10.0000
Noroxycodone	2.914	2330818	∞	229.29	19118146	10.0000
Nortriptyline	4.395	1927591	526.60	540.56	6921006	10.0000
O-desmethyl-tramadol	2.933	11890044	25454.92	1500.35	53618109	10.0000
O-desmethylvenlafaxine	3.268	2907403	983.12	8996.07	14157718	10.0000
Olanzapine	3.742	1318600	1212798.57	284.56	445012	10.0000
Oxazepam	4.515	3789374	259.57	339.86	19350351	10.0000
Oxycodone	2.927	4913826	890.87	629.07	19118146	10.0000
Oxymorphone	2.365	2920768	∞	218.44	300738	10.0000
Paroxetine	4.325	299909	173.63	879.67	3753022	10.0000
Phenazepam	4.630	3257407	624033.29	789.50	29317994	10.0000
Phencyclidine	3.917	10594674	1738.75	1743.51	15272516	10.0000
Phentermine	3.168	2621971	444.05	69.09	25873399	10.0000
Phenytion	4.133	840487	1080.82	567.76	445012	10.0000

Cal



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Primidone	3.488	2869015	9066.35	313.72	445012	10.0000
Promethazine	4.299	7997133	868.56	278.03	53618109	10.0000
Pseudoephedrine	2.738	58762612	4092.06	59718.62	39050332	10.0000
Quetiapine	4.337	5996701	629.66	1420.29	43634909	10.0000
Risperidone	4.013	9971126	750327.87	497.25	37370888	10.0000
Sertraline	4.544	865818	547565.37	1333.12	3753022	10.0000
Sufentanil	4.307	364392	7872.22	234.86	39082004	10.0000
Tapentadol	3.457	8292732	10817.01	3106.28	19118146	10.0000
Temazepam	4.668	7159386	1165.79	472.95	29317994	10.0000
Topiramate	3.862	149635	163615.23	34447.15	530113	10.0000
Tramadol	3.438	30627012	2118.43	∞	53618109	10.0000
Trazodone	4.353	8036783	2695.93	3901.39	28974551	10.0000
Venlafaxine	3.806	13592256	1566.21	557.05	14157718	10.0000
Zaleplon	4.344	3303030	972.52	628.23	43634909	10.0000
Zolpidem	4.128	13644621	13134.95	1559.59	43634909	10.0000
Zopiclone	3.968	899356	8007.42	2547.20	3622902	10.0000

AM# 26: Screening of THC and Metabolites in Blood and Urine by LC-MS/MS

Extraction Date: 04/13/2023

Plate lot#: 220802

Mobile phase A: 10mM Amm Form

Blank Blood Lot: Lampire 23A52593

LCMS-QQQ ID: 069901

Analyst: Celena Shrum

Plate Retest Date: 07/23/2023

Mobile phase B: 0.1% Formic Acid in MeOH

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 (if applicable): add 1.5mL urine to blank plate, add 250µl 1N KOH. Shake and incubate at 40 degrees for 15 minutes.
- 3. Using a calibrated pipette, add **1000µl blood or 1000µl hydrolyzed urine** into the appropriate wells of analytical (standards) plate. **Pipette ID: #27 42** C-8 4/20/23
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Pipette **500µL 0.1% formic acid in water to blood samples and 500µl of saturated phosphate buffer to urine samples** to the appropriate wells of the analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer **800µL of blood+acid mixture or urine+acid** to corresponding wells of SLE+ plate.
- 8. 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: 067104
- 9. Wait 5 minutes.
- 10. Add **2.25mL MTBE. (Add in 3 increments of 750uL)**
- 11. Wait 5 minutes.
- 12. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 13. Add **2.25mL Hexane. (Add in 3 increments of 750uL)**
- 14. Wait 5 minutes.
- 15. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 16. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 067103
- 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
- 2. Make any necessary integration changes, R^2 values ≥ 0.98 for each analyte
- 3. RT +/- 2% or 0.100 min, whichever is greater
- 4. Confirmation testing on case samples with a response for THC and OH-THC of 3ng/mL or greater and/or Carboxy-THC at 10ng/mL or greater (analyst discretion between 5-10ng/mL) may be pursued.
- 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

	1	2	3	4	5	6
a	cal 1ng	QC 2	M2023-1389-1	P2023-0940-1	P2023-0976-1	
b	cal 3 ng	Blood NC	P2023-0826-1	P2023-0946-1	P2023-0982-2	
c	cal 5 ng	M2023-1024-1	P2023-0828-1	P2023-0953-1	P2023-1021-1	
d	cal 10ng	M2023-1145-2	P2023-0892-3	P2023-0960-2	P2023-1023-1	
e	cal 25 ng	M2023-1154-1	P2023-0902-1	P2023-0964-1	P2023-1024-1	
f	cal 50 ng	M2023-1226-3	P2023-0903-1	P2023-0973-2	P2023-1025-1	
g	cal 100 ng	M2023-1317-2	P2023-0904-1	P2023-0974-1	P2023-1033-1	
h	QC 1	M2023-1355-3	P2023-0938-4	P2023-0975-1		

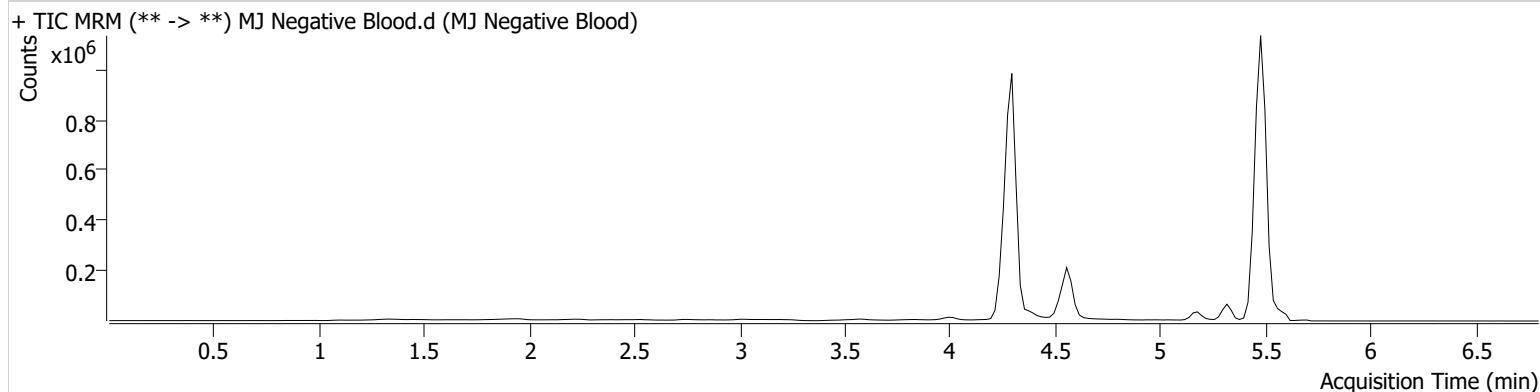
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-B2	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 2:42:28 PM		
Sample Info.			

Sample Chromatogram



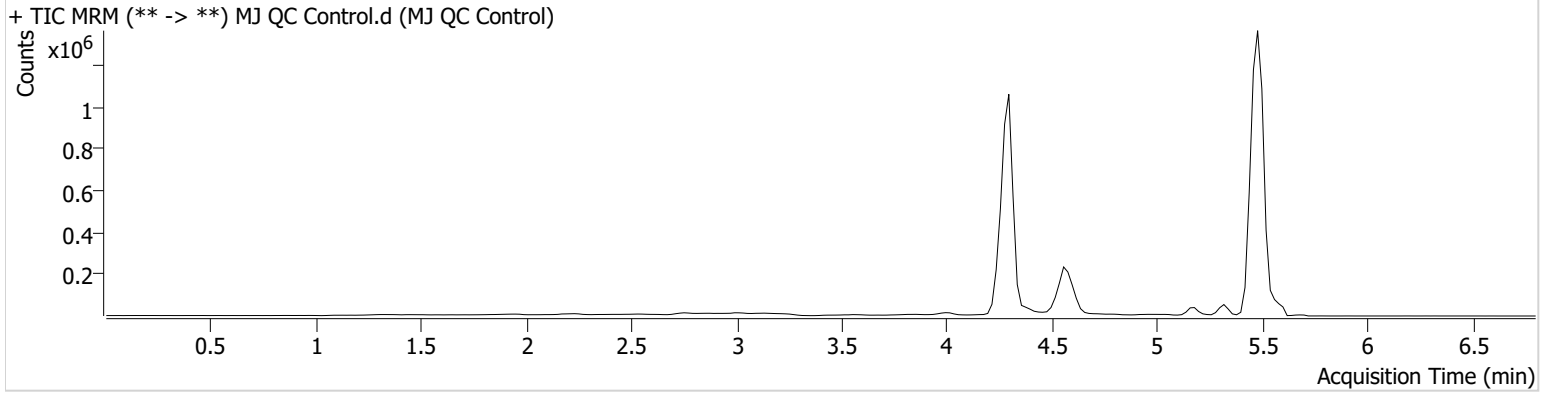
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ QC Control.d
Type	QC	Sample	MJ QC Control
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 2:27:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.449	2367	70650	5.1039 ng/ml
THC-COOH	4.596	145129	785574	14.0422 ng/ml
THC-OH	4.302	33630	3894835	4.5061 ng/ml

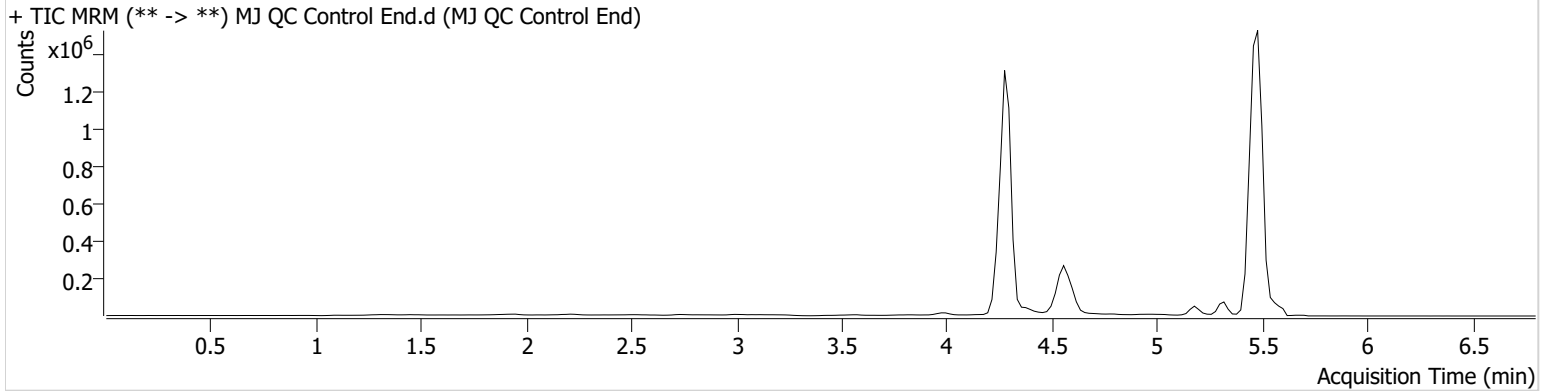
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ QC Control End.d
Type	QC	Sample	MJ QC Control End
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-A2	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 6:30:25 PM		
Sample Info.			

Sample Chromatogram

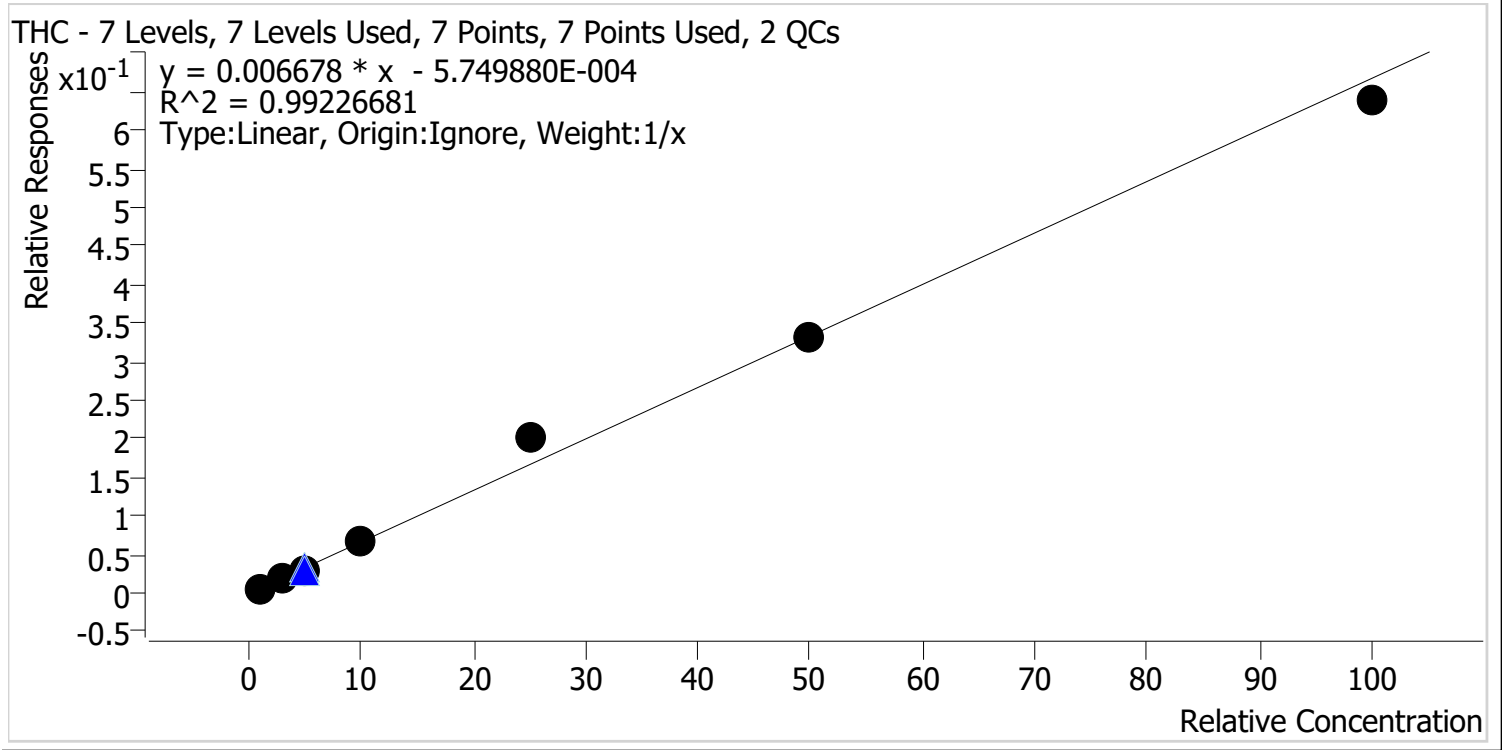


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.449	3163	110551	4.3707 ng/ml
THC-COOH	4.596	175375	865923	15.3646 ng/ml
THC-OH	4.302	41118	4619066	4.6414 ng/ml



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/13/2023 8:46 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	0.9	92.4
MJ Cal 2	2	✓	3.0	2.9	97.7
MJ Cal 3	3	✓	5.0	4.6	92.7
MJ Cal 4	4	✓	10.0	10.2	101.9
MJ Cal 5	5	✓	25.0	30.1	120.6
MJ Cal 6	6	✓	50.0	49.5	99.1
MJ Cal 7	7	✓	100.0	95.7	95.7

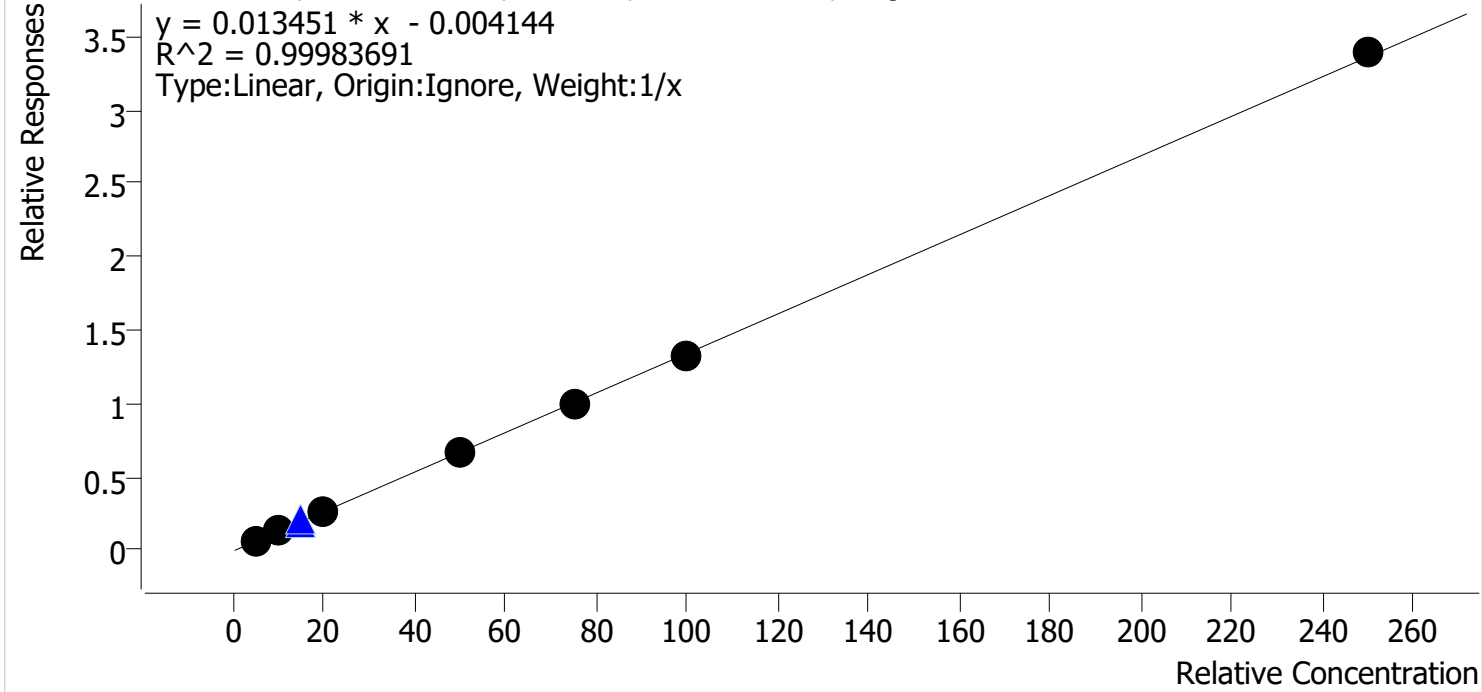
5



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/13/2023 8:46 PM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.2	104.6
MJ Cal 2	2	✓	10.0	9.8	97.6
MJ Cal 3	3	✓	20.0	19.8	99.0
MJ Cal 4	4	✓	50.0	50.1	100.3
MJ Cal 5	5	✓	75.0	74.3	99.1
MJ Cal 6	6	✓	100.0	98.6	98.6
MJ Cal 7	7	✓	250.0	252.2	100.9

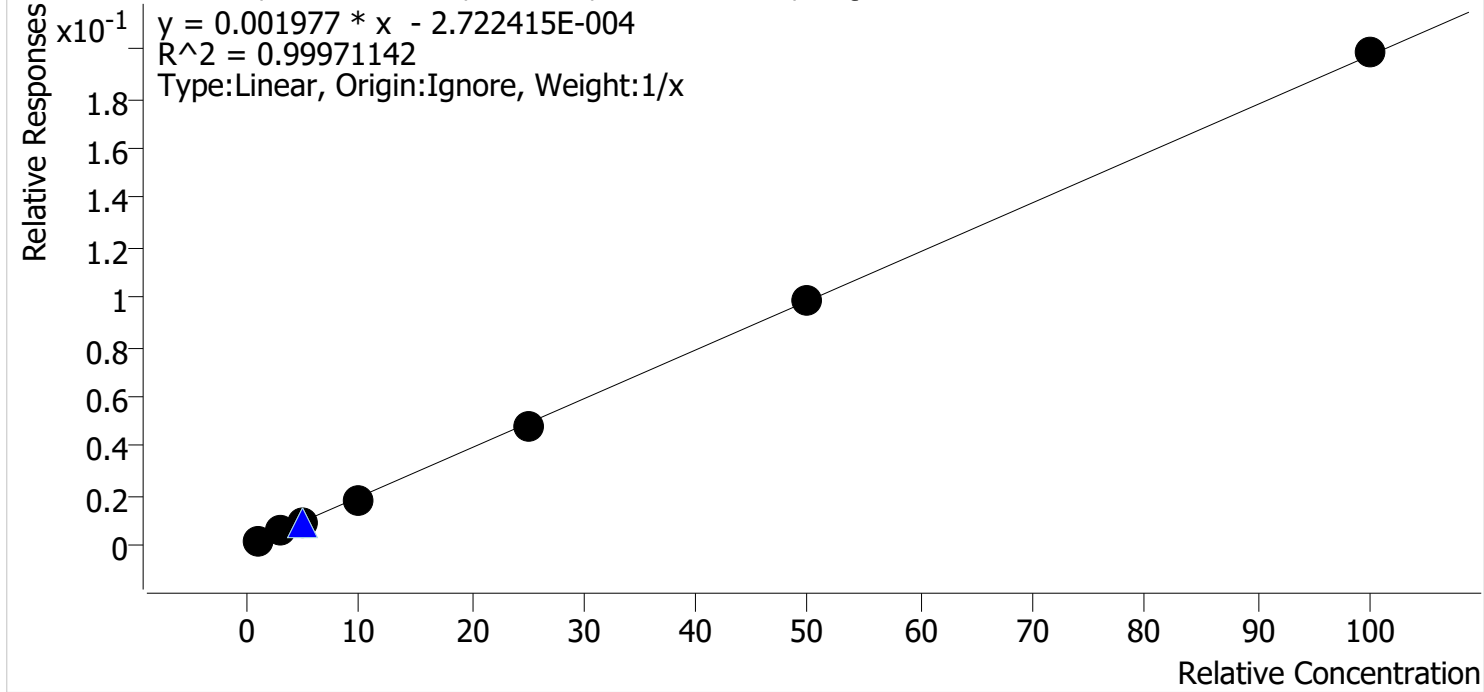
CS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/13/2023 8:46 PM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-D3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.1	108.0
MJ Cal 2	2	✓	3.0	3.0	101.1
MJ Cal 3	3	✓	5.0	4.8	95.2
MJ Cal 4	4	✓	10.0	9.6	96.1
MJ Cal 5	5	✓	25.0	24.6	98.2
MJ Cal 6	6	✓	50.0	50.4	100.8
MJ Cal 7	7	✓	100.0	100.6	100.6

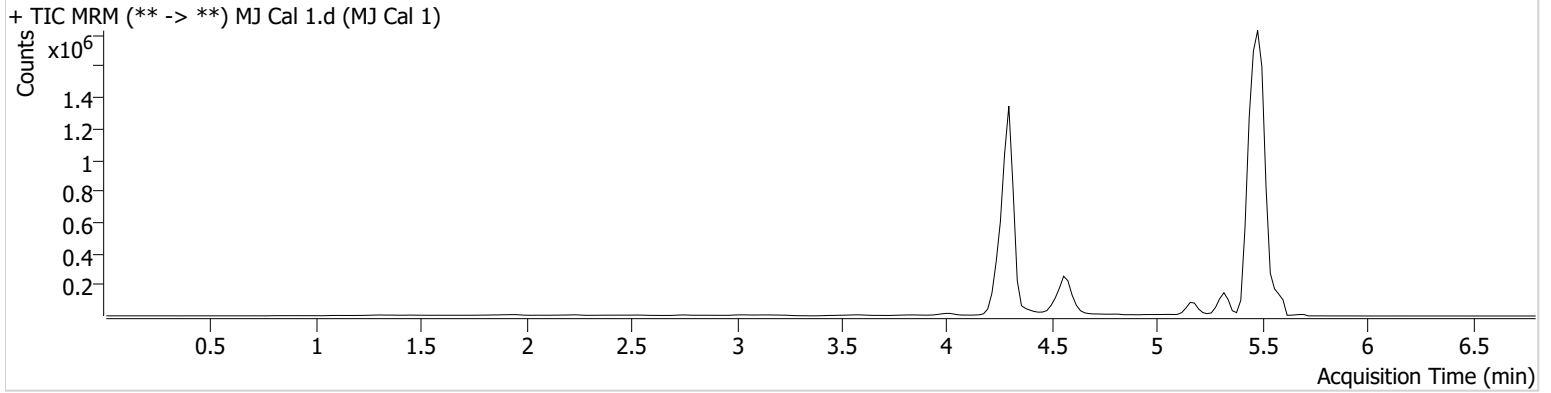


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument Falco (069901) **Data File** MJ Cal 1.d
Type Cal **Sample** MJ Cal 1
Acq. Method AM 26 THC.m **Operator** Celena Shrum
Sample Position P1-A1 **Comment**
Injection Volume 10
Acq. Date-Time 4/13/2023 1:34:09 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.449	1203	215062	0.9241 ng/ml	Low
THC-COOH	4.596	70228	1060773	5.2299 ng/ml	
THC-OH	4.302	10018	5378159	1.0801 ng/ml	Low

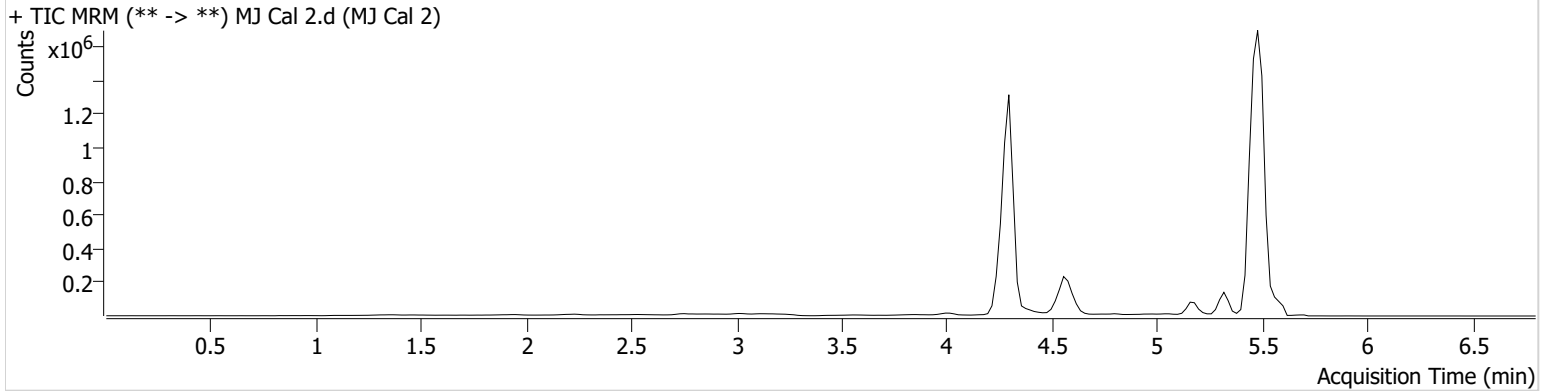
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 1:41:55 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.449	4595	241835	2.9317 ng/ml	Low
THC-COOH	4.596	105462	829783	9.7567 ng/ml	
THC-OH	4.302	27284	4768587	3.0324 ng/ml	

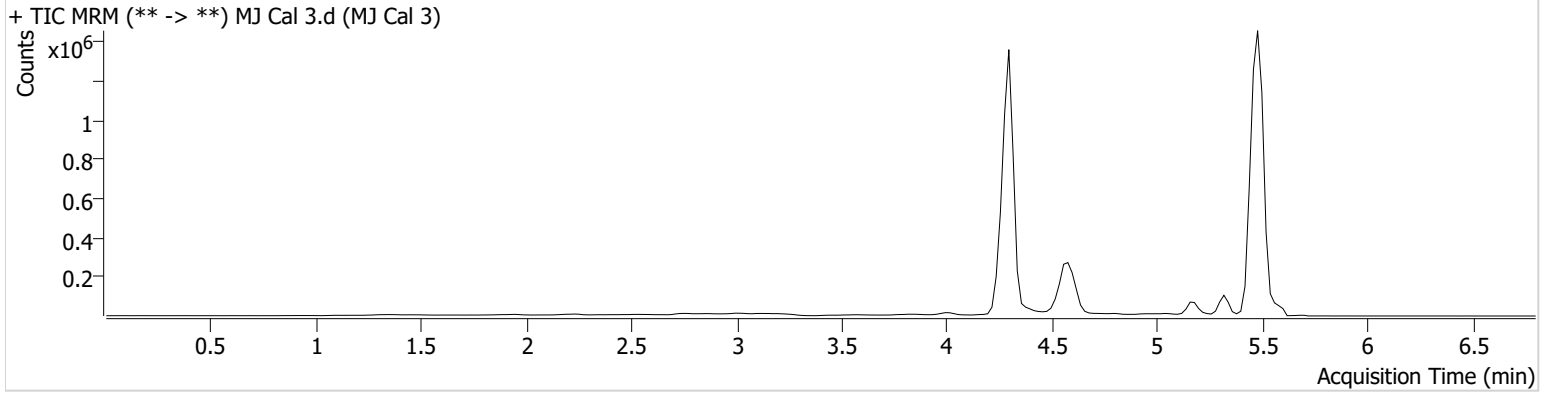


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 1:49:29 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.449	4688	154385	4.6337 ng/ml
THC-COOH	4.596	227111	866053	19.8033 ng/ml
THC-OH	4.302	43200	4726093	4.7622 ng/ml

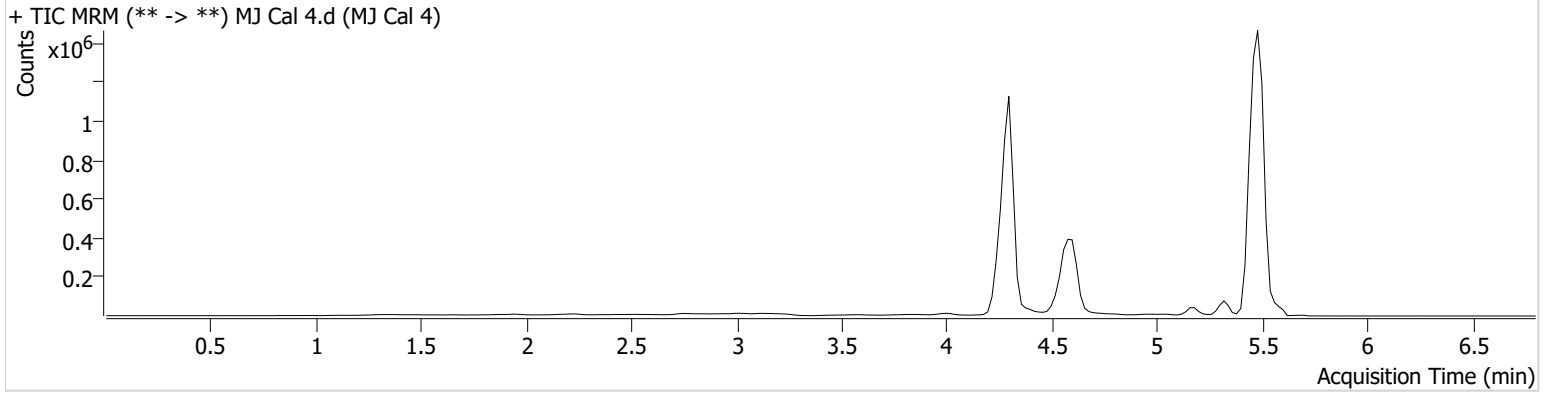
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 1:57:02 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.449	9982	147903	10.1929 ng/ml
THC-COOH	4.596	545358	813729	50.1319 ng/ml
THC-OH	4.302	74655	3988757	9.6067 ng/ml

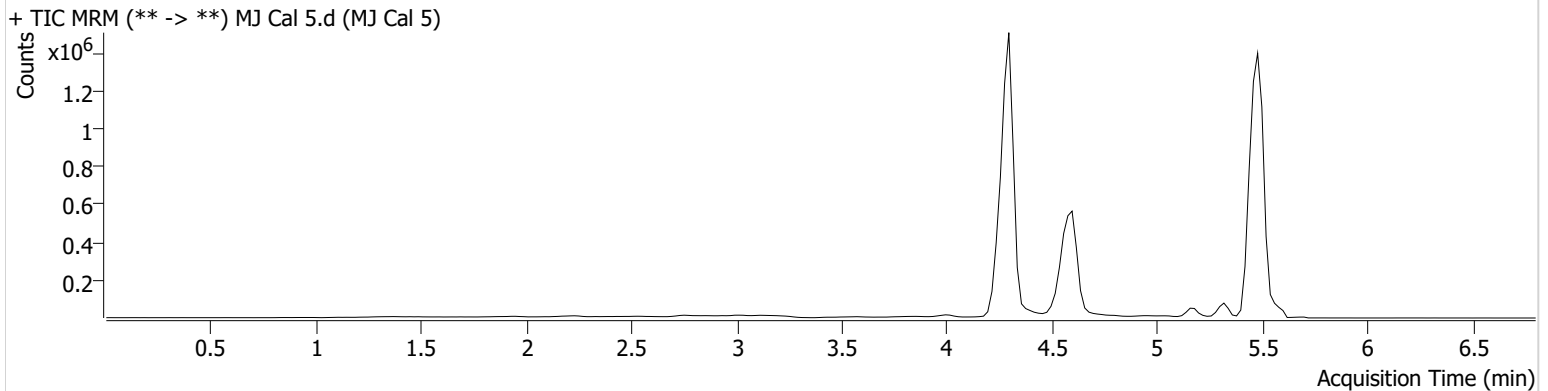
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 2:04:36 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.449	28978	144396	30.1391 ng/ml
THC-COOH	4.596	845536	849393	74.3126 ng/ml
THC-OH	4.302	215855	4471817	24.5586 ng/ml

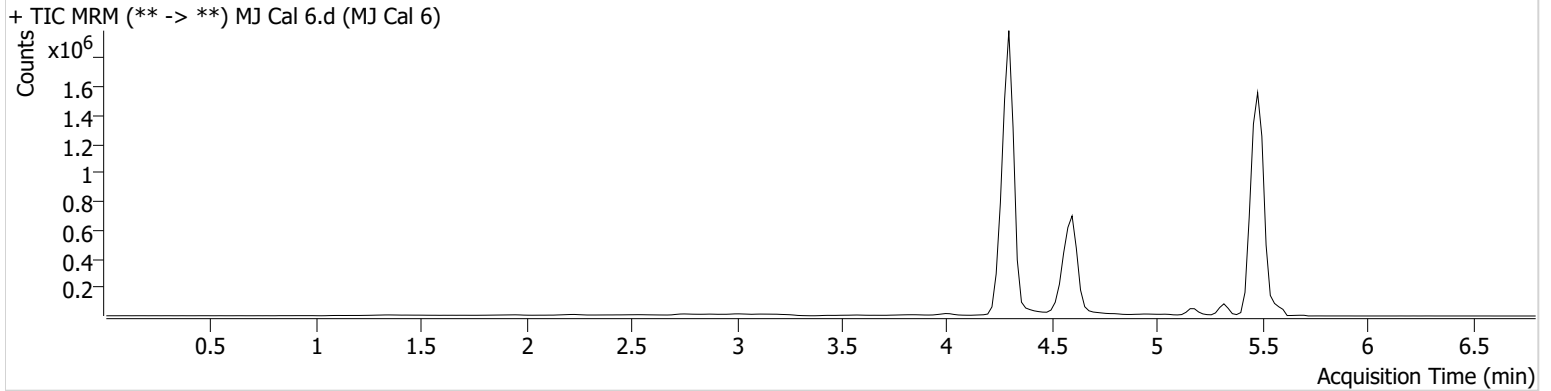
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 2:12:10 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.449	44415	134534	49.5257 ng/ml
THC-COOH	4.596	997558	754432	98.6079 ng/ml
THC-OH	4.302	418664	4213693	50.4049 ng/ml

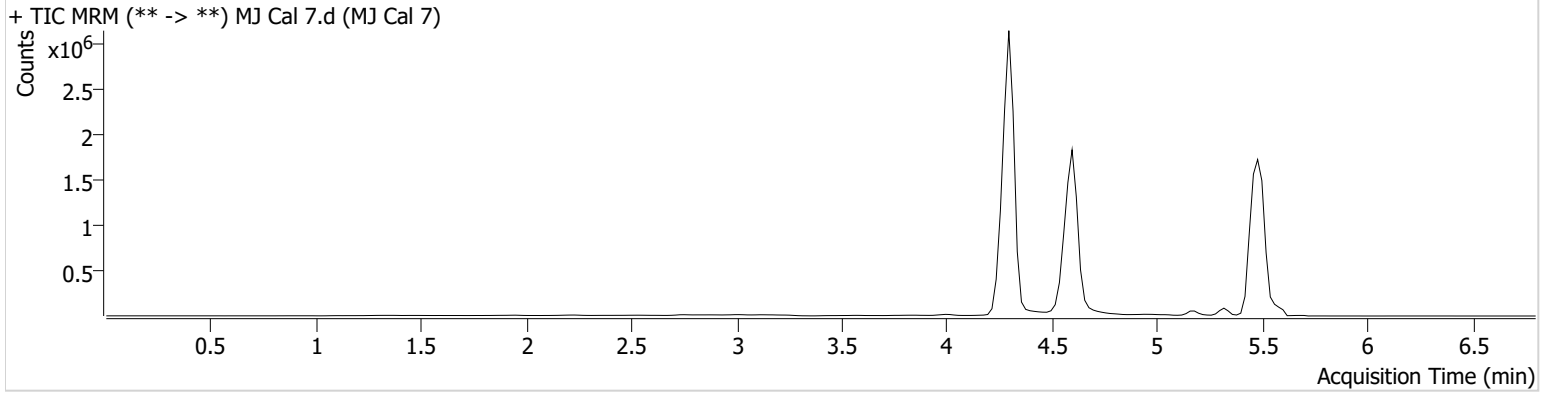


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\041323 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/13/2023 8:46:18 PM

Instrument	Falco (069901)	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	AM 26 THC.m	Operator	Celena Shrum
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	4/13/2023 2:19:44 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	5.449	68816	107834	95.6528 ng/ml
THC-COOH	4.596	2798012	825930	252.1577 ng/ml
THC-OH	4.302	903609	4552539	100.5551 ng/ml