

REVIEWED

By Sarah Collins at 9:07 am, Apr 19, 2024












4/18/2024

Worklist: 6775

| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u> | |
|-----------------|-------------|------------------|--|---|
| M2024-1156 | 3 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| M2024-1175 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| M2024-1234 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| M2024-1275 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| M2024-1299 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| M2024-1472 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-0746 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-0819 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-0820 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-0870 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1019 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1021 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1027 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1028 | 2 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1035 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1036 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1052 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1053 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1055 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1056 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1083 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |

Worklist: 6775



| <u>LAB CASE</u> | <u>ITEM</u> | <u>ITEM TYPE</u> | <u>DESCRIPTION</u> | |
|-----------------|-------------|------------------|--|---|
| P2024-1087 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1088 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1090 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1095 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1099 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1111* | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1112 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1113 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |
| P2024-1115 | 1 | BCK | AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ |  |

*Only did AM 25 testing due to limited sample volume.

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

Extraction Date: 04/16/2024

Plate lot#: 231213

Mobile phase A: 10mM Amm Form

Instant Buffer I

Blank Blood Lot: Lampire 23A52595

LCMS-QQQ ID: 069901

Analyst: Celena Shrum

Plate Retest Date: 6/13/2024

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: 16**
- 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: 250µl
- 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:

AM #25 Multi-Drug Screen. Results



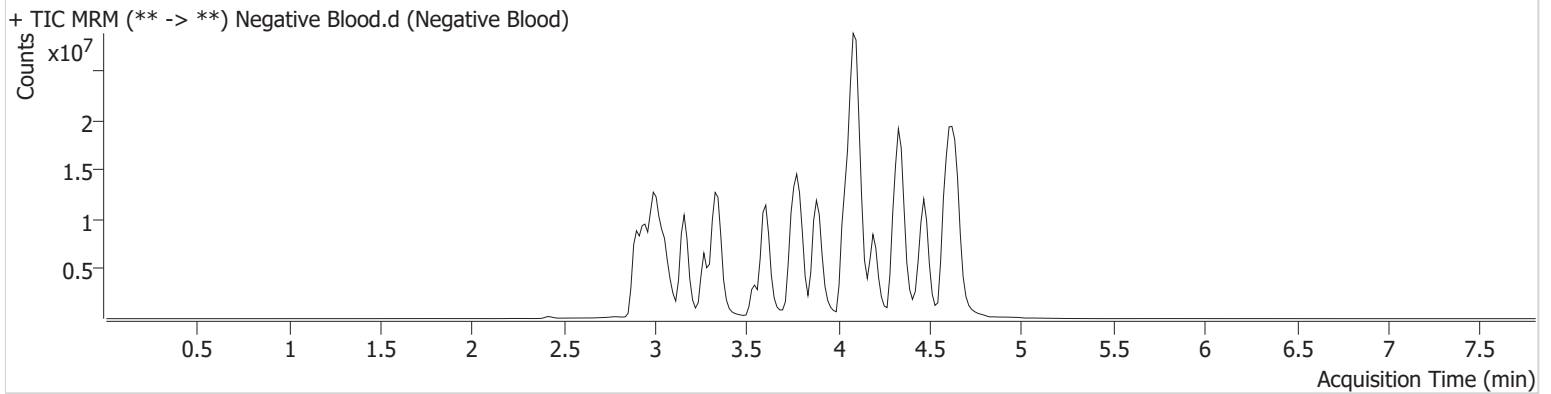
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/18/2024 1:50:58 PM

Instrument Falco (069901)
Type Sample
Acq. Method AM 25 MDS.m
Sample Position P2-E1
Injection Volume 5
Acq. Date-Time 4/16/2024 7:41:52 PM
Sample Info.

Data File Negative Blood.d
Sample Negative Blood
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



AM #25 Multi-Drug Screen. Results

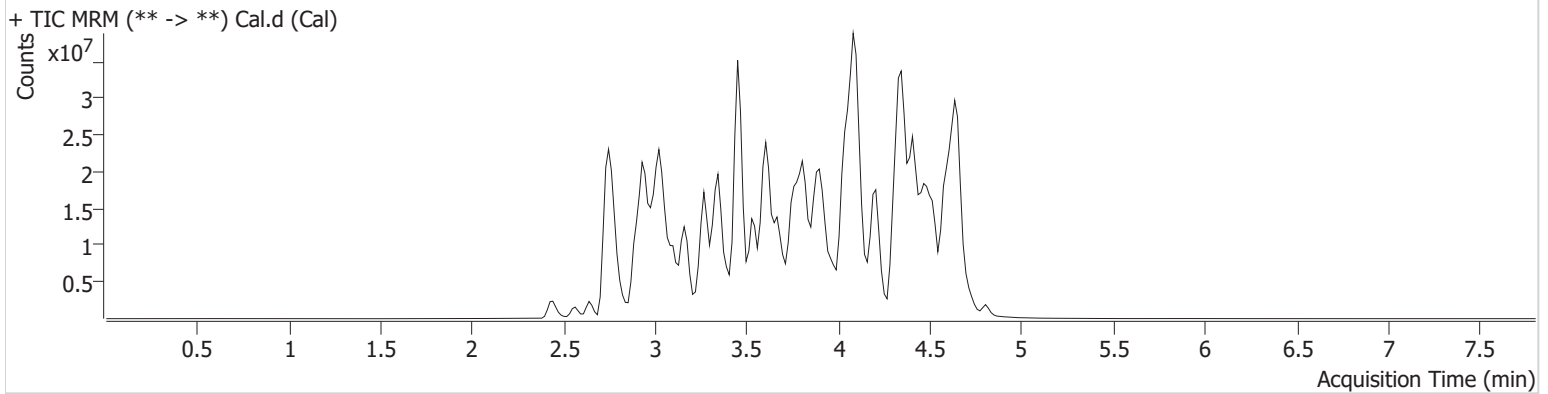


Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/18/2024 1:50:58 PM

Instrument Falco (069901) **Data File** Cal.d
Type Cal **Sample** Cal
Acq. Method AM 25 MDS.m **Operator** Celena Shrum
Sample Position P2-A1 **Comment**
Injection Volume 5
Acq. Date-Time 4/16/2024 7:33:17 PM
Sample Info.

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|------------------------|-------|----------|------------|----------|------------|-------------|
| 10-OH-Carbamazepine | 3.749 | 4163337 | 95.26 | 516.61 | 33725629 | 10.0000 |
| 6-MAM | 2.958 | 90330 | 29499.97 | 30106.61 | 3503373 | 10.0000 |
| 7-aminoclonazepam | 3.546 | 1510622 | 980.74 | 549.19 | 9187792 | 10.0000 |
| 7-aminoflunitrazepam | 3.746 | 2765142 | 581.88 | 316.28 | 9187792 | 10.0000 |
| 9-Hydroxyrisperidone | 3.892 | 16311807 | 8290964.01 | 173.02 | 46733394 | 10.0000 |
| Acetyl Fentanyl | 3.897 | 746792 | 535.80 | 234628.8 | 46804499 | 10.0000 |
| Acetyl Norfentanyl | 2.920 | 532912 | 289.64 | 132.92 | 46804499 | 10.0000 |
| a-hydroxyalprazolam | 4.483 | 372311 | 403.03 | 72.22 | 9187792 | 10.0000 |
| alpha-hydroxymidazolam | 4.558 | 3250073 | 767.78 | 502.14 | 9187792 | 10.0000 |
| Alpha-PHP | 3.858 | 5466119 | 1399.73 | 2234.09 | 46804499 | 10.0000 |
| alpha-PVP | 3.581 | 5928960 | 847.33 | 225.13 | 26986933 | 10.0000 |
| Alprazolam | 4.578 | 2935129 | 636.19 | 267.72 | 26559494 | 10.0000 |
| Amitriptyline | 4.458 | 3294205 | 149.42 | 250.08 | 15469009 | 10.0000 |
| Amphetamine | 2.940 | 4886021 | 3028.88 | 480.57 | 26986933 | 10.0000 |
| Benzoyllecgonine | 3.360 | 152876 | 30811.24 | 29.50 | 790025 | 10.0000 |
| Bromazolam | 4.650 | 1218529 | 4270.80 | 12045.58 | 26559494 | 10.0000 |
| Brompheniramine | 4.067 | 176190 | 189.52 | 422.61 | 58284499 | 10.0000 |
| Buprenorphine | 4.678 | 120033 | 417.42 | 6892.59 | 7545105 | 10.0000 |
| Bupropion | 3.812 | 9522128 | 1117.58 | 2125.24 | 34138062 | 10.0000 |
| Carbamazepine | 4.214 | 15679108 | 1726.21 | 659.22 | 491222 | 10.0000 |
| Carisoprodol | 4.213 | 1874626 | 297.53 | 148.90 | 16266695 | 10.0000 |
| Chlordiazepoxide | 4.703 | 1833820 | 1862.31 | 284.13 | 26559494 | 10.0000 |
| Chlorpheniramine | 3.979 | 16130741 | 5400.53 | 5.04 | 24690555 | 10.0000 |
| Chlorpromazine | 4.653 | 3454468 | 1527708.69 | 489.66 | 21176405 | 10.0000 |
| Citalopram | 4.082 | 5060508 | 494.27 | 339623.3 | 58284499 | 10.0000 |
| Clomipramine | 4.654 | 4591152 | 7995.70 | 1855.98 | 58284499 | 10.0000 |
| Clonazepam | 4.407 | 2217309 | 613.17 | 7476.38 | 491222 | 10.0000 |
| Clonazolam | 4.327 | 1370826 | 834724.25 | 379163.2 | 26559494 | 10.0000 |
| Clozapine | 4.344 | 6644113 | 2096.28 | 1075.42 | 32836410 | 10.0000 |
| Cocaethylene | 3.805 | 7130106 | 3765769.17 | 2203.08 | 41953449 | 10.0000 |

Cal

AM #25 Multi-Drug Screen. Results



| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|------------------|-------|----------|-----------|----------|------------|-------------|
| Cocaine | 3.605 | 6903007 | 866.97 | 517.82 | 41953449 | 10.0000 |
| Codeine | 2.885 | 578754 | 889.01 | 627.15 | 19430422 | 10.0000 |
| Cyclobenzaprine | 4.366 | 5142888 | 1723.10 | 61.69 | 15469009 | 10.0000 |
| Desipramine | 4.398 | 8483591 | 1252.70 | 2374.58 | 15469009 | 10.0000 |
| Dextromethorphan | 4.104 | 3184738 | 540.58 | 253934.2 | 24690555 | 10.0000 |
| Dextrorphan | 3.394 | 4395555 | 1852.59 | 564.51 | 24690555 | 10.0000 |
| Diazepam | 4.811 | 2089331 | 658.09 | 944.65 | 26559494 | 10.0000 |
| Dihydrocodeine | 2.793 | 1869645 | 340.56 | 2024.05 | 19430422 | 10.0000 |
| Diphenhydramine | 4.057 | 18551194 | 10102.50 | 196734.7 | 58284499 | 10.0000 |
| DMT | 2.999 | 911342 | 2018.78 | 4608.32 | 24690555 | 10.0000 |
| Doxepin | 4.179 | 3961231 | ∞ | 139.85 | 41455870 | 10.0000 |
| Doxylamine | 3.670 | 16973940 | 24308.18 | 1217.72 | 24690555 | 10.0000 |
| Duloxetine | 4.348 | 158603 | 15786.49 | 19032.12 | 2396367 | 10.0000 |
| EDDP | 4.087 | 554469 | 169.49 | 36.47 | 4164743 | 10.0000 |
| Estazolam | 4.502 | 7573321 | 1076.93 | 1428.97 | 26559494 | 10.0000 |
| Etizolam | 4.589 | 407284 | 280698.03 | 404468.8 | 26559494 | 10.0000 |
| Fentanyl | 4.112 | 610809 | 199.75 | 30944.61 | 34232517 | 10.0000 |
| Flualprazolam | 4.452 | 1258122 | 821269.49 | 361198.1 | 26559494 | 10.0000 |
| Flunitrazepam | 4.531 | 4441603 | 1676.93 | 492.46 | 26559494 | 10.0000 |
| Fluorofentanyl | 4.157 | 1127470 | 52276.55 | 435.15 | 34232517 | 10.0000 |
| Fluoxetine | 4.347 | 4213549 | 1129.07 | 157.83 | 7986506 | 10.0000 |
| Flurazepam | 4.217 | 5669123 | 725453.83 | 490.85 | 26559494 | 10.0000 |
| Hydrocodone | 3.084 | 2825740 | 362.77 | 400.85 | 19430422 | 10.0000 |
| Hydromorphone | 2.566 | 2533860 | 744.77 | 488.75 | 632594 | 10.0000 |
| Hydroxyzine | 4.526 | 5799091 | 3296.63 | 499324.2 | 32836410 | 10.0000 |
| Imipramine | 4.411 | 13195732 | 1659.73 | 40.66 | 15469009 | 10.0000 |
| Ketamine | 3.611 | 5222745 | 827.29 | 234.82 | 26049626 | 10.0000 |
| Lamotrigine | 3.609 | 4638868 | 12042.05 | 5240.07 | 58284499 | 10.0000 |
| Levamisole | 3.028 | 5510107 | 825.73 | 2106.80 | 41953449 | 10.0000 |
| Levetiracetam | 2.648 | 4434189 | 874.93 | 477.53 | 58284499 | 10.0000 |
| Lorazepam | 4.407 | 683329 | 1455.46 | 163.23 | 26559494 | 10.0000 |
| Maprotiline | 4.458 | 2625492 | 153.51 | 321.79 | 15469009 | 10.0000 |
| MDA | 3.029 | 4950119 | 178.59 | 652.62 | 45665045 | 10.0000 |
| MDEA | 3.259 | 9875496 | 6143.67 | 326.76 | 45665045 | 10.0000 |
| MDMA | 3.106 | 11896788 | 2524.27 | 343.98 | 45665045 | 10.0000 |
| Meperidine | 3.641 | 5295486 | 531.17 | 488.61 | 24690555 | 10.0000 |
| Meprobamate | 3.659 | 2243896 | 530.05 | 244.89 | 16266695 | 10.0000 |
| Methadone | 4.408 | 14012420 | 818.23 | 597.60 | 4164743 | 10.0000 |
| Methamphetamine | 3.031 | 12852953 | 3494.99 | 387.30 | 45665045 | 10.0000 |
| Methocarbamol | 3.565 | 738188 | 264.80 | 324.90 | 4164743 | 10.0000 |
| Methylphenidate | 3.535 | 21147111 | 823.97 | 759.04 | 33756406 | 10.0000 |
| Metoprolol | 3.455 | 1504806 | 5103.89 | 1173626. | 24690555 | 10.0000 |
| Midazolam | 4.729 | 1398948 | 928.90 | 312.36 | 26559494 | 10.0000 |
| Mirtazapine | 4.026 | 6728042 | 14064.53 | 52116.82 | 24690555 | 10.0000 |
| Mitragynine | 4.217 | 1050124 | 728862.10 | 1807956. | 24690555 | 10.0000 |
| Morphine | 2.429 | 558558 | 1530.02 | 360.09 | 632594 | 10.0000 |
| Norbuprenorphine | 3.847 | 190361 | 34019.56 | 145975.2 | 7545105 | 10.0000 |
| Nordiazepam | 4.674 | 2466664 | 846.35 | 492.07 | 26559494 | 10.0000 |
| Norfentanyl | 3.350 | 13711828 | 25531.88 | 133.73 | 46804499 | 10.0000 |
| Norhydrocodone | 2.947 | 239853 | 77.09 | 29.65 | 632594 | 10.0000 |
| Norketamine | 3.720 | 1341603 | 1223.29 | 2695.85 | 26049626 | 10.0000 |
| Normeperidine | 3.627 | 4541044 | 755.18 | 257.67 | 58284499 | 10.0000 |
| Noroxycodone | 2.900 | 2640111 | 134.71 | 832.53 | 26049626 | 10.0000 |

AM #25 Multi-Drug Screen. Results



| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
|------------------------|-------|----------|------------|----------------|------------|-------------|
| Nortriptyline | 4.429 | 3380837 | 14023.52 | 321.99 | 15469009 | 10.0000 |
| O-desmethyl-tramadol | 2.934 | 13930851 | 2362.65 | 195.48 | 58284499 | 10.0000 |
| O-desmethylvenlafaxine | 3.270 | 2970606 | 869.59 | 10589.75 | 18738322 | 10.0000 |
| Olanzapine | 3.882 | 3449332 | 1559254.73 | 6358.86 | 491222 | 10.0000 |
| Oxazepam | 4.487 | 3272353 | 710.41 | 562.24 | 25058359 | 10.0000 |
| Oxycodone | 2.959 | 4910775 | 207.84 | 564.98 | 26049626 | 10.0000 |
| Oxymorphone | 2.442 | 4476809 | 810.62 | 736.27 | 632594 | 10.0000 |
| Paroxetine | 4.359 | 813490 | 364.65 | 384294.7 3 | 7986506 | 10.0000 |
| Phenazepam | 4.604 | 3367474 | 1783.09 | 53768.09 | 26559494 | 10.0000 |
| Phencyclidine | 3.935 | 12689228 | 725.22 | 290.54 | 24690555 | 10.0000 |
| Phentermine | 3.185 | 3080376 | 515.13 | 27.38 | 33756406 | 10.0000 |
| Phenytoin | 4.105 | 880642 | 192.09 | 249.62 | 491222 | 10.0000 |
| Primidone | 3.459 | 28864575 | 3583.91 | 2844.96 | 491222 | 10.0000 |
| Promethazine | 4.364 | 13567950 | 2001162.92 | 300.08 | 58284499 | 10.0000 |
| Pseudoephedrine | 2.755 | 70708172 | 3622.29 | 1694.35 | 45665045 | 10.0000 |
| Quetiapine | 4.510 | 9279953 | 1098.98 | 1581.08 | 46866182 | 10.0000 |
| Risperidone | 4.093 | 10151545 | 2678529.47 | 1491.73 | 46733394 | 10.0000 |
| Sertraline | 4.579 | 1531539 | 635754.49 | 1304.09 | 7986506 | 10.0000 |
| Sufentanil | 4.464 | 521167 | 92532.51 | 528.40 | 46804499 | 10.0000 |
| Tapentadol | 3.459 | 10960077 | 1599.84 | 555.35 | 26049626 | 10.0000 |
| Temazepam | 4.641 | 5534634 | 1830.60 | 144.58 | 26559494 | 10.0000 |
| Topiramate | 3.834 | 1222953 | 344.67 | 344451.5 9 | 579148 | 10.0000 |
| Tramadol | 3.455 | 33644611 | 500.41 | 77.20 | 58284499 | 10.0000 |
| Trazodone | 4.633 | 11448462 | 6052.76 | 1155.83 | 41455870 | 10.0000 |
| Venlafaxine | 3.824 | 13135698 | 1662.05 | 404.13 | 18738322 | 10.0000 |
| Xylazine | 3.413 | 4540162 | 1868.02 | 170.47 | 26049626 | 10.0000 |
| Zaleplon | 4.301 | 4211628 | 7835201.18 | 461.61 | 46866182 | 10.0000 |
| Zolpidem | 4.332 | 17311718 | 6276.35 | 2065040. 55 | 46866182 | 10.0000 |
| Zopiclone | 4.217 | 1214026 | 1695191.20 | 74556.58 | 6496315 | 10.0000 |

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

Extraction Date: 04/16/2024

Plate lot#: 231212

Mobile phase A: 10mM Amm Form

Blank Blood Lot: Lampire 23A52595

LCMS-QQQ ID: 069901

Analyst: Celena Shrum

Plate Retest Date: 06/12/2024

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: #42**
- 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: The run stopped part-way through due to a clog. The clog was remedied and the run was restarted. Cal 6 was reinjected due to RT shifting. Cal 7 was reinjected due to low ISTD responses. Curve Limits: THC-COOH 5-50

5

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|------------|--------------|--------------|--------------|--------------|---|
| a | cal 1ng | QC 2 | P2024-0746-1 | P2024-1035-1 | P2024-1088-1 | |
| b | cal 3 ng | NEG CTRL | P2024-0819-1 | P2024-1036-1 | P2024-1090-1 | |
| c | cal 5 ng | M2024-1156-3 | P2024-0820-1 | P2024-1052-1 | P2024-1095-1 | |
| d | cal 10ng | M2024-1175-1 | P2024-0870-1 | P2024-1053-1 | P2024-1099-1 | |
| e | cal 25 ng | M2024-1234-1 | P2024-1019-1 | P2024-1055-1 | P2024-1112-1 | |
| f | cal 50 ng | M2024-1275-1 | P2024-1021-2 | P2024-1056-1 | P2024-1113-1 | |
| g | cal 100 ng | M2024-1299-1 | P2024-1027-1 | P2024-1083-1 | P2024-1115-1 | |
| h | QC 1 | M2024-1472-2 | P2024-1028-2 | P2024-1087-1 | | |

AM #26 Cannabinoids Screen Results



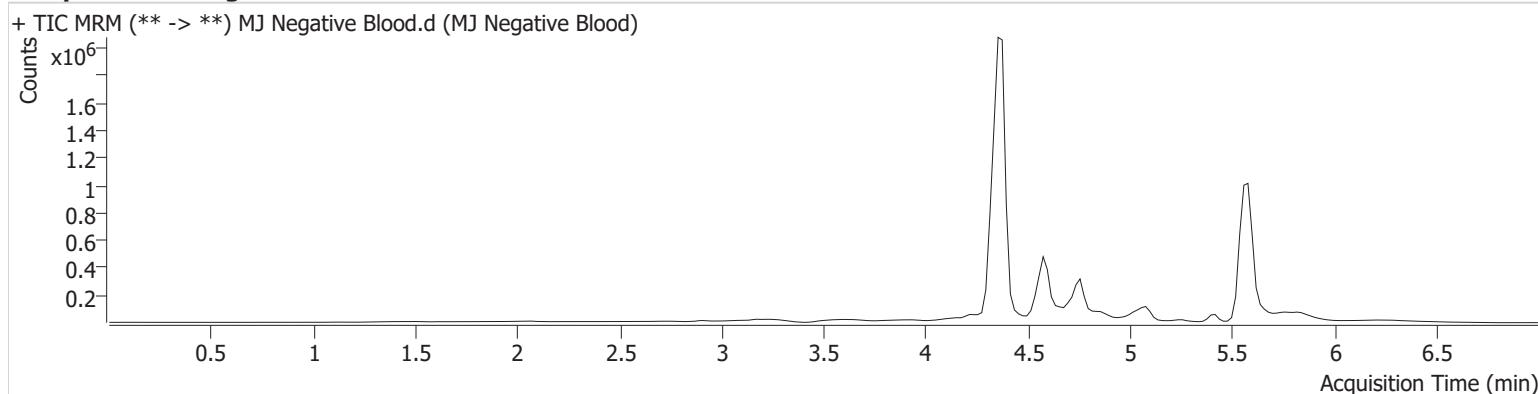
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Sample
Acq. Method AM 26 THC.m
Sample Position P1-B2
Injection Volume 10
Acq. Date-Time 4/16/2024 3:11:45 PM
Sample Info.

Data File MJ Negative Blood.d
Sample MJ Negative Blood
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



AM #26 Cannabinoids Screen Results



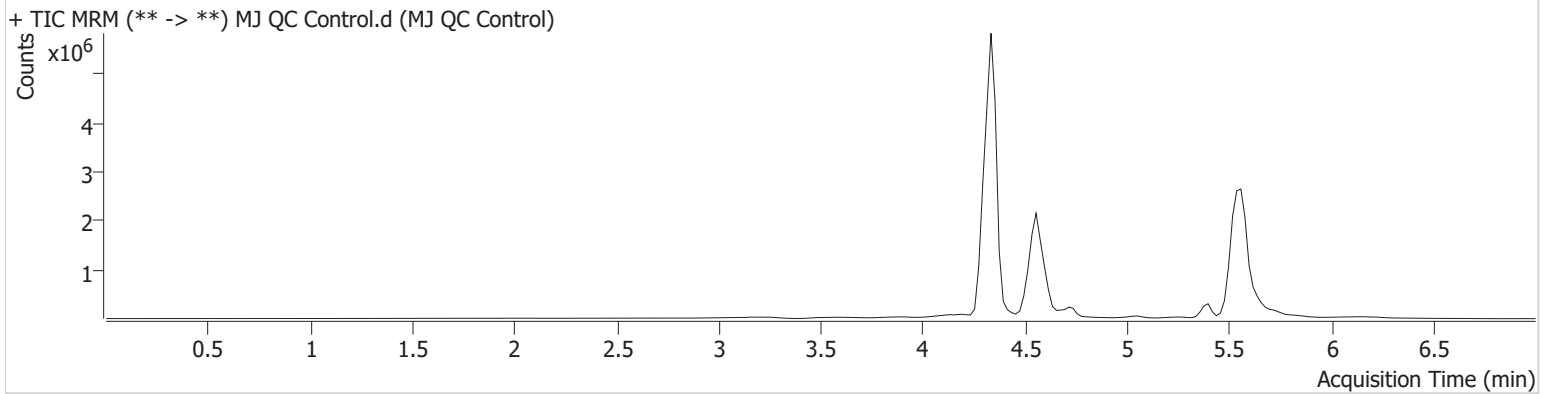
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 26 THC.m
Sample Position P1-H1
Injection Volume 10
Acq. Date-Time 4/16/2024 1:42:24 PM
Sample Info.

Data File MJ QC Control.d
Sample MJ QC Control
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|---------|------------|-------------|
| THC | 5.509 | 8698 | 418990 | 4.66 ng/ml |
| THC-COOH | 4.596 | 1329551 | 7022405 | 15.08 ng/ml |
| THC-OH | 4.362 | 200461 | 22492198 | 4.80 ng/ml |

AM #26 Cannabinoids Screen Results



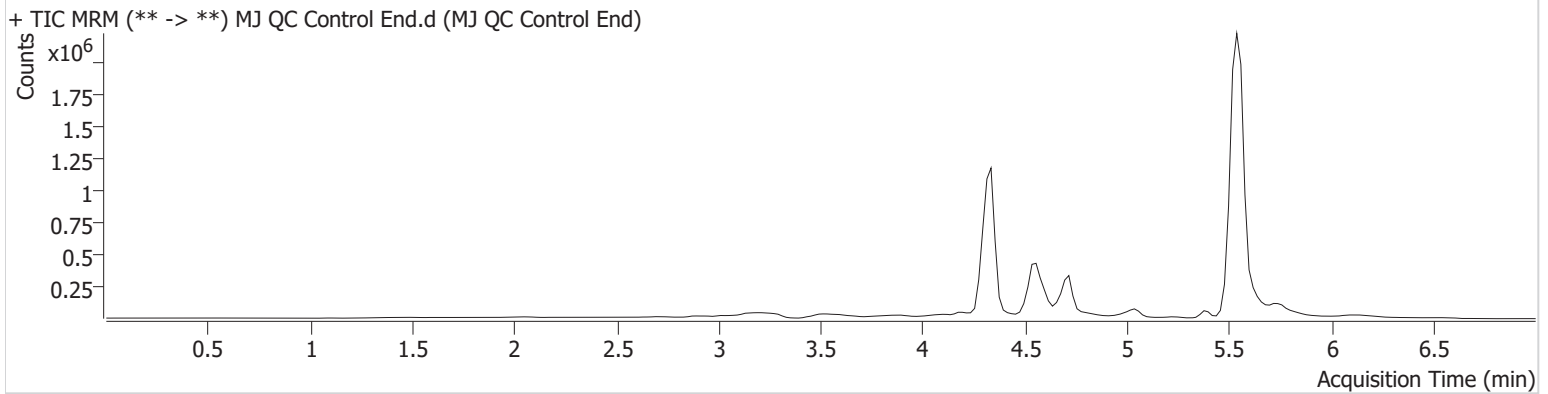
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 26 THC.m
Sample Position P1-A2
Injection Volume 10
Acq. Date-Time 4/16/2024 6:58:47 PM
Sample Info.

Data File MJ QC Control End.d
Sample MJ QC Control End
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram

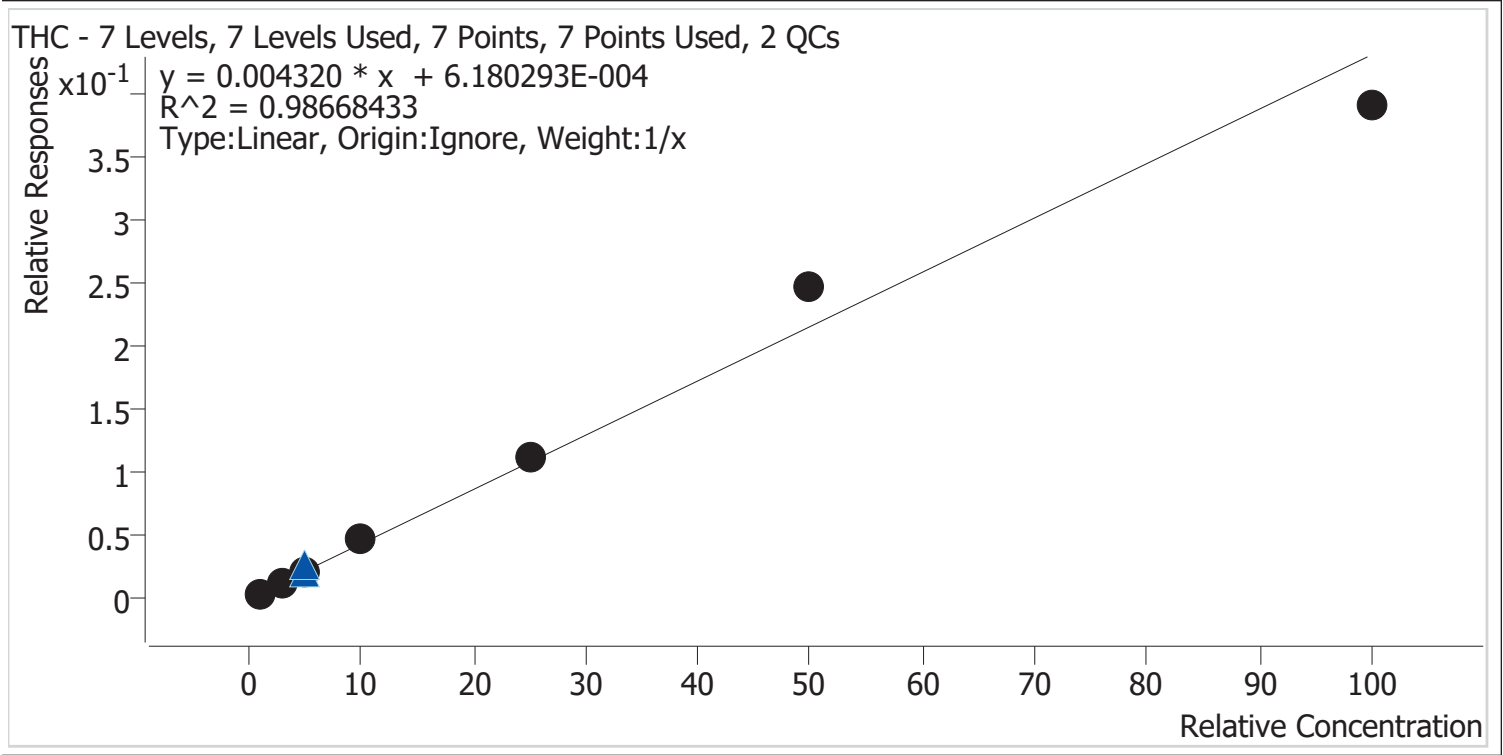


| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|-------------|
| THC | 5.510 | 9416 | 356296 | 5.97 ng/ml |
| THC-COOH | 4.576 | 263302 | 1264139 | 16.55 ng/ml |
| THC-OH | 4.342 | 38751 | 4526822 | 4.62 ng/ml |



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/18/2024 1:51 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-D3

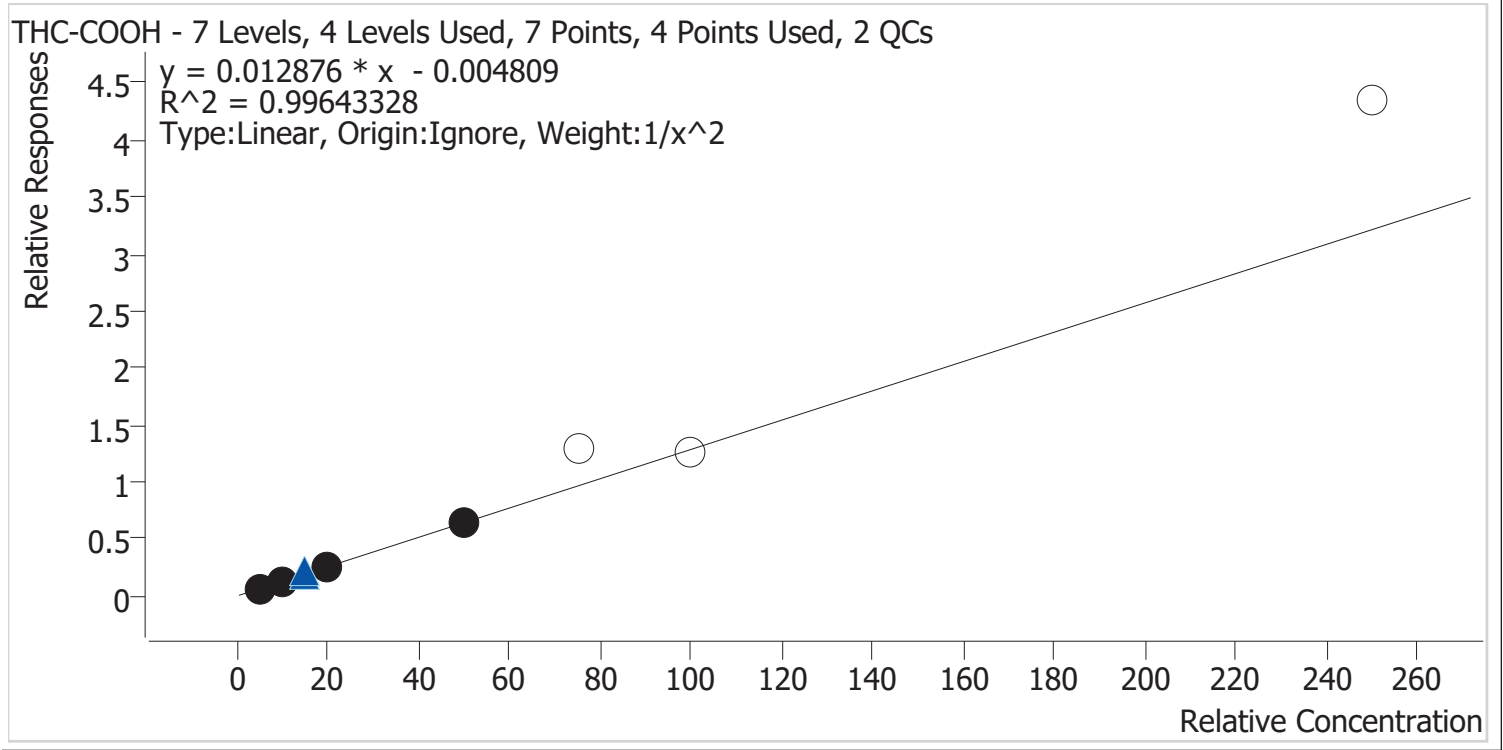


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|------------|-------|---------|------------------------|---------------------|----------|
| MJ Cal 1 | 1 | ✓ | 1.0 | 0.8 | 82.9 |
| MJ Cal 2 | 2 | ✓ | 3.0 | 2.9 | 95.7 |
| MJ Cal 3 | 3 | ✓ | 5.0 | 5.0 | 99.3 |
| MJ Cal 4 | 4 | ✓ | 10.0 | 11.3 | 112.6 |
| MJ Cal 5 | 5 | ✓ | 25.0 | 26.0 | 104.0 |
| MJ Cal 6 r | 6 | ✓ | 50.0 | 57.5 | 114.9 |
| MJ Cal 7 r | 7 | ✓ | 100.0 | 90.6 | 90.6 |



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/18/2024 1:51 PM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

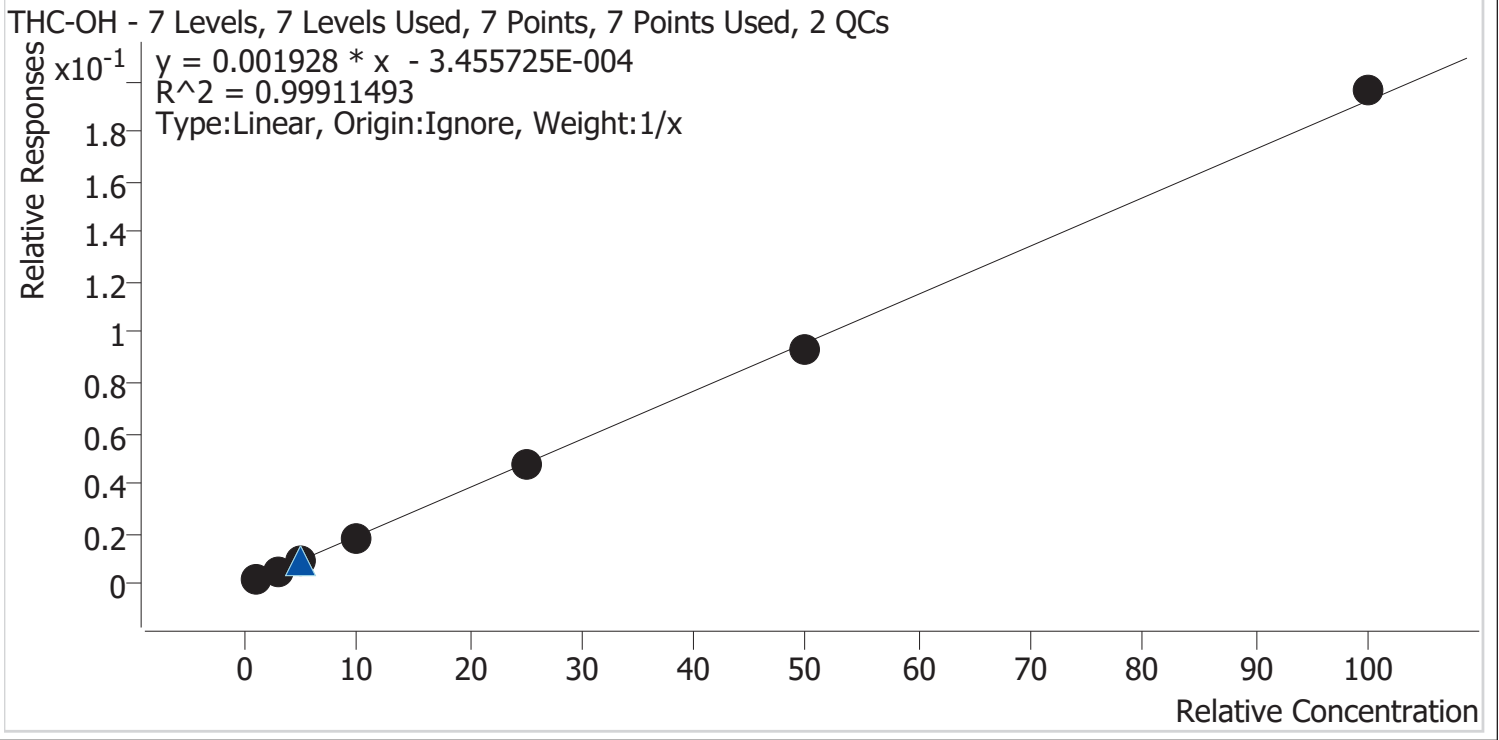


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|------------|-------|---------|------------------------|---------------------|----------|
| MJ Cal 1 | 1 | ✓ | 5.0 | 4.9 | 97.7 |
| MJ Cal 2 | 2 | ✓ | 10.0 | 10.6 | 106.1 |
| MJ Cal 3 | 3 | ✓ | 20.0 | 19.5 | 97.5 |
| MJ Cal 4 | 4 | ✓ | 50.0 | 49.3 | 98.6 |
| MJ Cal 5 | 5 | × | 75.0 | 100.6 | 134.1 |
| MJ Cal 6 r | 6 | × | 100.0 | 97.6 | 97.6 |
| MJ Cal 7 r | 7 | × | 250.0 | 338.0 | 135.2 |



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/18/2024 1:51 PM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-D3



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|------------|-------|---------|------------------------|---------------------|----------|
| MJ Cal 1 | 1 | ✓ | 1.0 | 1.2 | 117.4 |
| MJ Cal 2 | 2 | ✓ | 3.0 | 2.7 | 91.0 |
| MJ Cal 3 | 3 | ✓ | 5.0 | 4.8 | 95.8 |
| MJ Cal 4 | 4 | ✓ | 10.0 | 9.7 | 97.3 |
| MJ Cal 5 | 5 | ✓ | 25.0 | 24.7 | 98.8 |
| MJ Cal 6 r | 6 | ✓ | 50.0 | 48.8 | 97.6 |
| MJ Cal 7 r | 7 | ✓ | 100.0 | 102.1 | 102.1 |

AM #26 Cannabinoids Screen Results



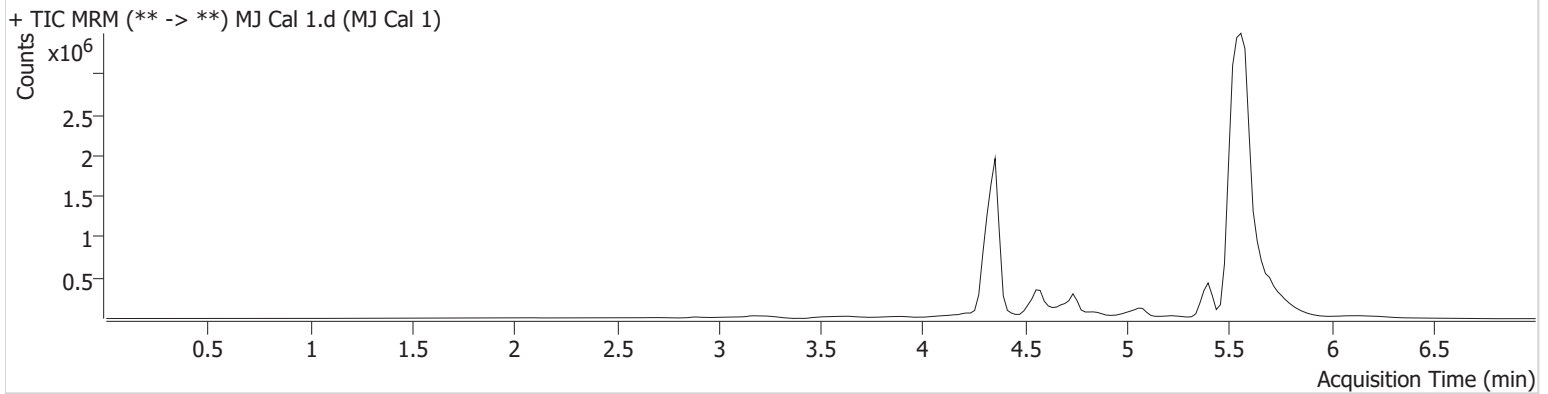
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P1-A1
Injection Volume 10
Acq. Date-Time 4/16/2024 12:49:14 PM
Sample Info.

Data File MJ Cal 1.d
Sample MJ Cal 1
Operator Celena Shrum
Comment

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Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|-------|------------|-----------------------|
| THC | 5.489 | 3186 | 758808 | 0.83 ng/ml Low |
| THC-COOH | 4.596 | 73478 | 1265033 | 4.88 ng/ml Low |
| THC-OH | 4.362 | 16310 | 8506353 | 1.17 ng/ml Low |

AM #26 Cannabinoids Screen Results



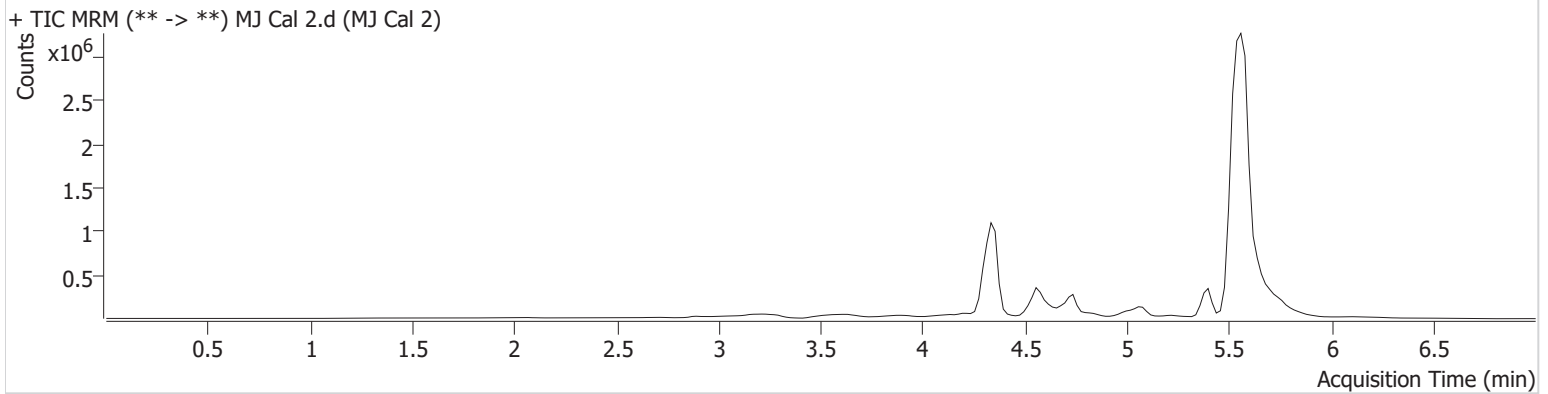
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P1-B1
Injection Volume 10
Acq. Date-Time 4/16/2024 12:56:58 PM
Sample Info.

Data File MJ Cal 2.d
Sample MJ Cal 2
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|-----------------------|
| THC | 5.509 | 11087 | 851442 | 2.87 ng/ml Low |
| THC-COOH | 4.596 | 133962 | 1016245 | 10.61 ng/ml |
| THC-OH | 4.362 | 23727 | 4825059 | 2.73 ng/ml Low |

AM #26 Cannabinoids Screen Results



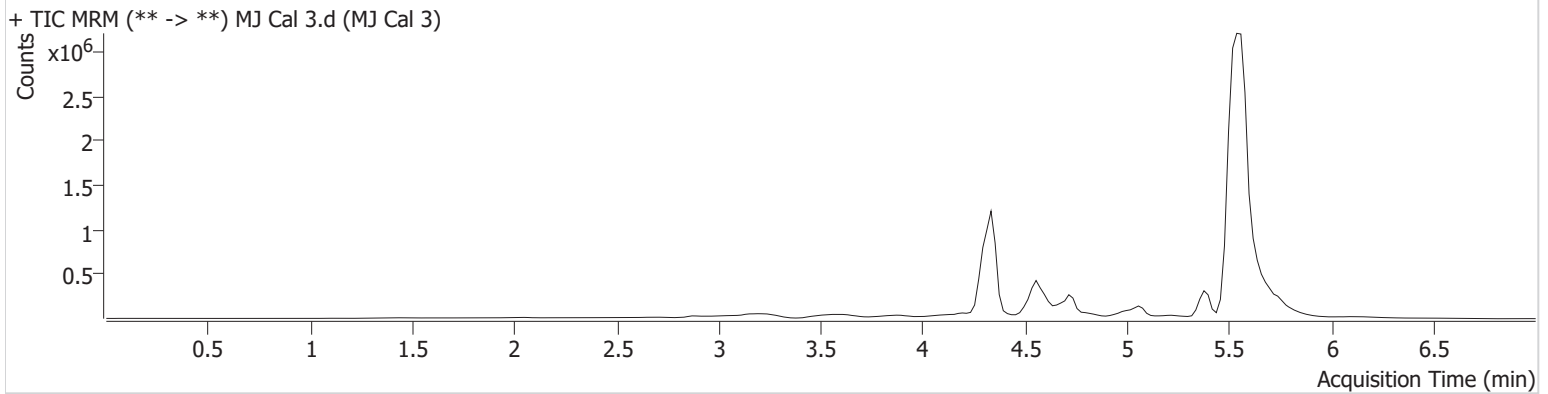
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P1-C1
Injection Volume 10
Acq. Date-Time 4/16/2024 1:04:33 PM
Sample Info.

Data File MJ Cal 3.d
Sample MJ Cal 3
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|-------------|
| THC | 5.489 | 17713 | 802845 | 4.96 ng/ml |
| THC-COOH | 4.596 | 287228 | 1165714 | 19.51 ng/ml |
| THC-OH | 4.342 | 45965 | 5169164 | 4.79 ng/ml |

AM #26 Cannabinoids Screen Results



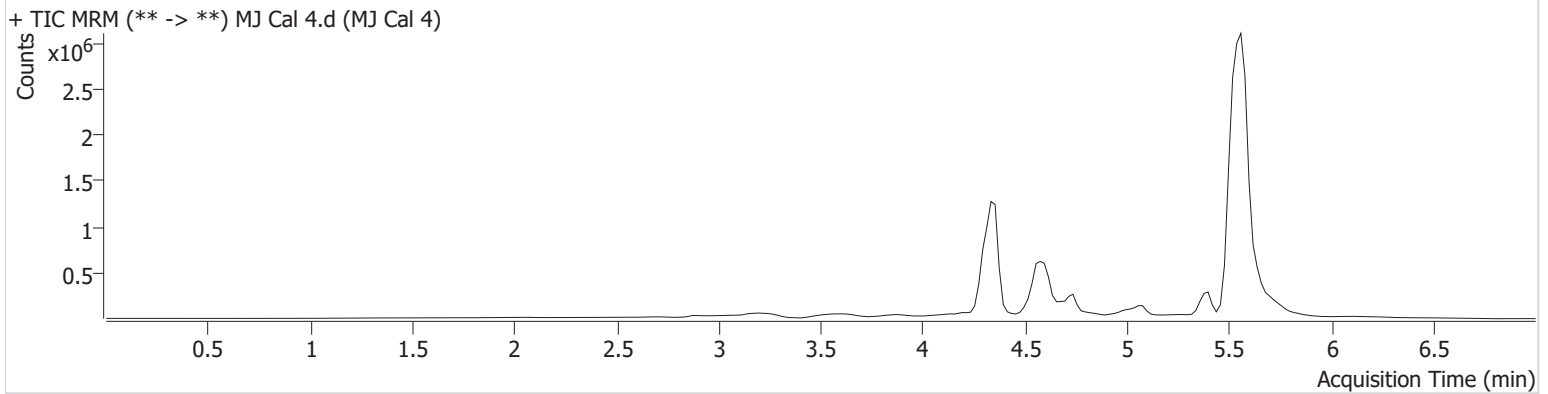
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P1-D1
Injection Volume 10
Acq. Date-Time 4/16/2024 1:12:08 PM
Sample Info.

Data File MJ Cal 4.d
Sample MJ Cal 4
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|--------|------------|-------------|
| THC | 5.510 | 38290 | 777139 | 11.26 ng/ml |
| THC-COOH | 4.596 | 799799 | 1268988 | 49.32 ng/ml |
| THC-OH | 4.362 | 101390 | 5509611 | 9.73 ng/ml |

AM #26 Cannabinoids Screen Results



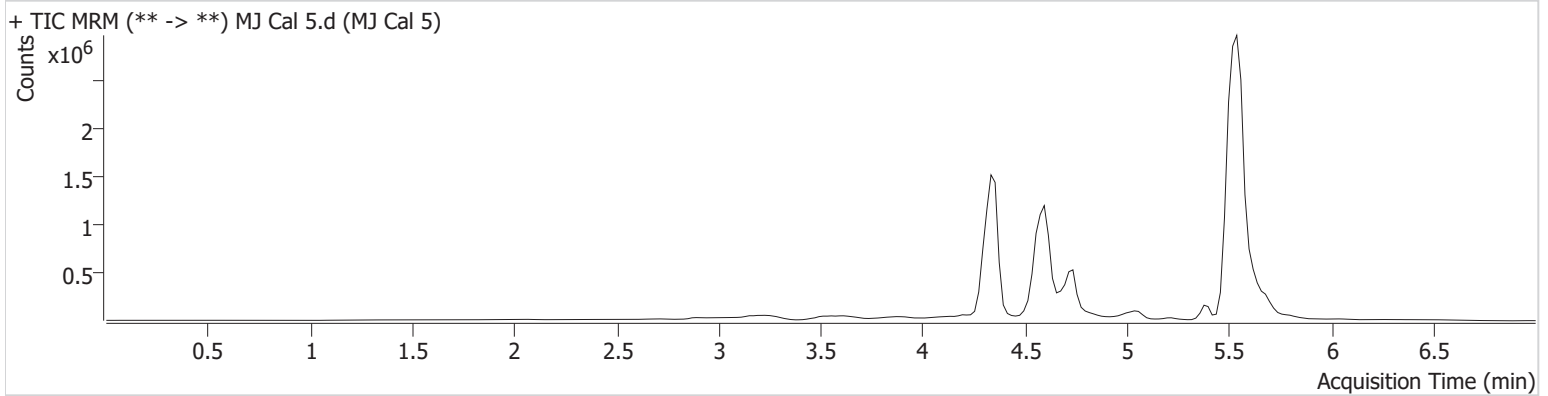
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P1-E1
Injection Volume 10
Acq. Date-Time 4/16/2024 1:19:42 PM
Sample Info.

Data File MJ Cal 5.d
Sample MJ Cal 5
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|---------|------------|--------------|
| THC | 5.489 | 78917 | 699021 | 25.99 ng/ml |
| THC-COOH | 4.596 | 1779500 | 1378933 | 100.60 ng/ml |
| THC-OH | 4.362 | 238563 | 5046715 | 24.70 ng/ml |

AM #26 Cannabinoids Screen Results



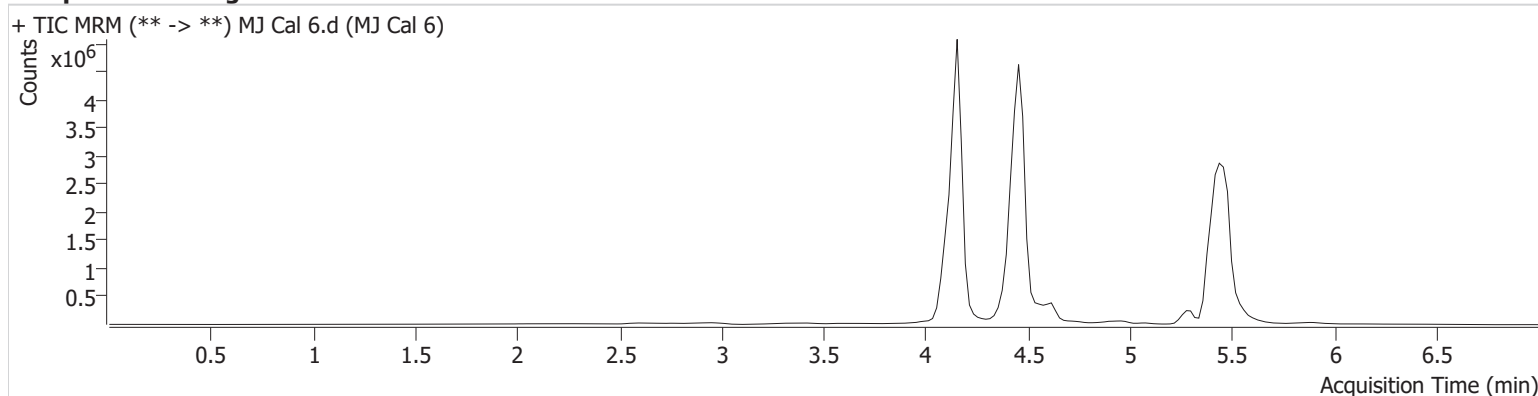
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Sample
Acq. Method AM 26 THC.m
Sample Position P1-F1
Injection Volume 10
Acq. Date-Time 4/16/2024 1:27:15 PM
Sample Info.

Data File MJ Cal 6.d
Sample MJ Cal 6
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|------|-------|-------|------------|-----------------------|
| THC | 5.509 | 8900 | 1316463 | 1.42 ng/ml Low |

AM #26 Cannabinoids Screen Results



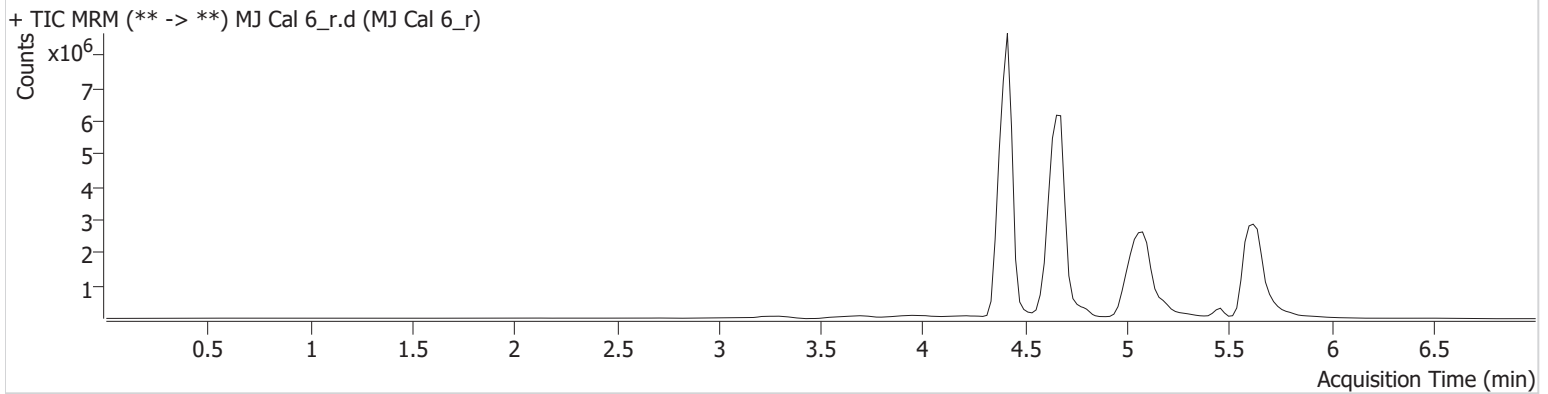
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P1-F1
Injection Volume 10
Acq. Date-Time 4/16/2024 2:40:37 PM
Sample Info.

Data File MJ Cal 6_r.d
Sample MJ Cal 6_r
Operator Celena Shrum
Comment

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Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|---------|------------|-------------|
| THC | 5.570 | 149845 | 602041 | 57.47 ng/ml |
| THC-COOH | 4.676 | 9546404 | 7628922 | 97.56 ng/ml |
| THC-OH | 4.422 | 2013641 | 21487123 | 48.80 ng/ml |

AM #26 Cannabinoids Screen Results



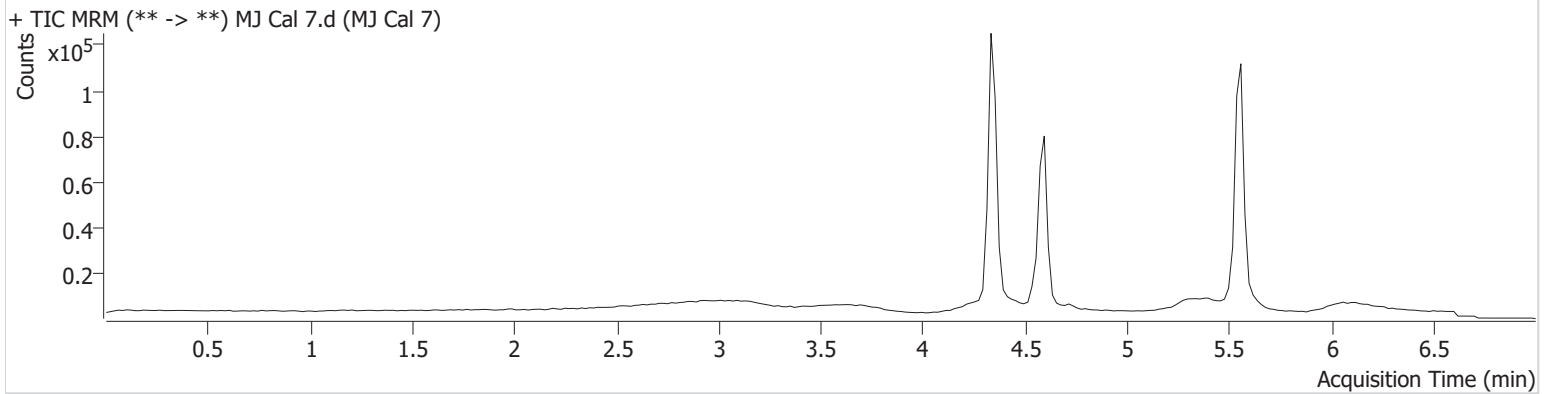
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Sample
Acq. Method AM 26 THC.m
Sample Position P1-G1
Injection Volume 10
Acq. Date-Time 4/16/2024 1:34:50 PM
Sample Info.

Data File MJ Cal 7.d
Sample MJ Cal 7
Operator Celena Shrum
Comment

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Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|-------|------------|--------------|
| THC | 5.530 | 4767 | 7032 | 156.78 ng/ml |
| THC-COOH | 4.596 | 83123 | 26748 | 241.73 ng/ml |
| THC-OH | 4.342 | 25447 | 134741 | 98.15 ng/ml |

AM #26 Cannabinoids Screen Results



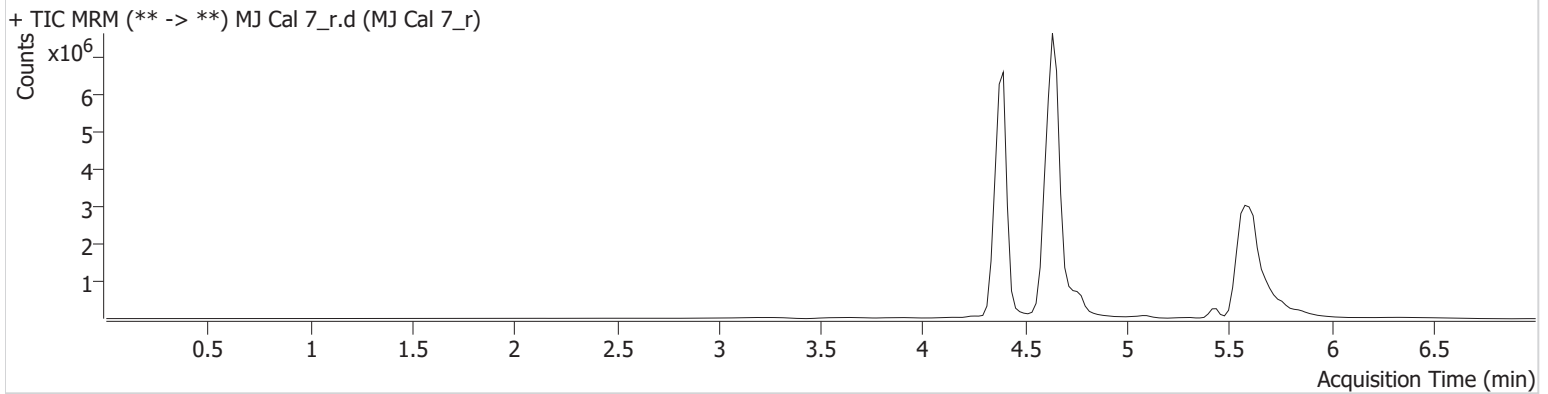
Batch results D:\MassHunter\Data\2024\AM 25 26\041624 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/18/2024 1:51:32 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P1-G1
Injection Volume 10
Acq. Date-Time 4/16/2024 2:56:36 PM
Sample Info.

Data File MJ Cal 7_r.d
Sample MJ Cal 7_r
Operator Celena Shrum
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
|----------|-------|----------|------------|--------------|
| THC | 5.530 | 270546 | 690003 | 90.62 ng/ml |
| THC-COOH | 4.636 | 12905144 | 2968221 | 338.04 ng/ml |
| THC-OH | 4.402 | 1964252 | 10000218 | 102.08 ng/ml |