10/19/2023

Worklist: 6534

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2023-3884	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-3938	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-4037	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-4038	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-4039	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-4058	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-4090	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-4163	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2023-4209	5	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2621	1	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2621	2	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2690	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2706	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2971	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2977	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2992	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-2998	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3000	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3001	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3010	1	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3013	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 6534

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2023-3015	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3022	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3030	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3037	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3053	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3055	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2023-3090	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 10/17/2023
Plate lot#: 230712
Mobile phase A: 10mM Amm Form
Instant Buffer I
Blank Blood Lot: Lampire 23E52981
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Retest Date: 1/12/2024
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: P2023-2906-1 was also included in this run. M2023-4039 was reinjected on 10/20/23 due to low ISTD response.

10/20/23

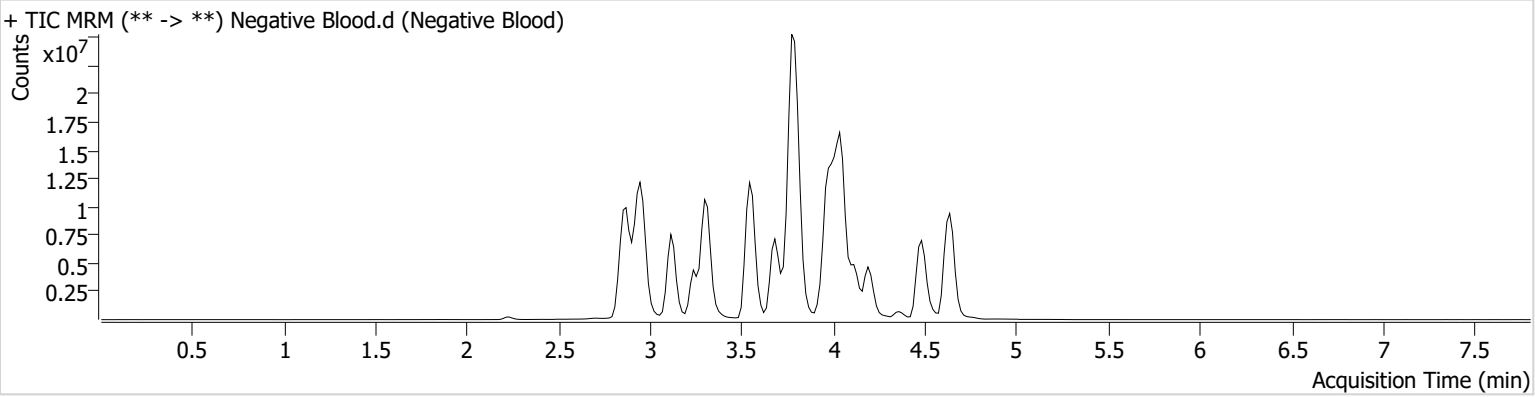
	1	2	3	4	5	6	7	8	9	10	11	12
A	CAL					M2023-4090-1	P2023-2977-1	P2023-3022-1				
B	CAL				NEG BLOOD	M2023-4163-1	P2023-2992-1	P2023-3030-1				
C	Control				M2023-3884-1	M2023-4209-5	P2023-2998-1	P2023-3037-1				
D	Control				M2023-3938-1	P2023-2621-1	P2023-3000-2	P2023-3053-1				
E					M2023-4037-1	P2023-2621-2	P2023-3001-1	P2023-3055-1				Control
F					M2023-4038-1	P2023-2690-1	P2023-3010-1	P2023-3090-1				Control
G					M2023-4039-1	P2023-2706-1	P2023-3013-1	P2023-2906-1				CAL
H					M2023-4058-1	P2023-2971-1	P2023-3015-1					CAL

AM #25 Multi-Drug Screen. Results

Batch results	D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update	10/20/2023 9:00:36 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-B5	**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.
Injection Volume	5		
Acq. Date-Time	10/17/2023 5:07:57 PM		
Sample Info.			

Sample Chromatogram

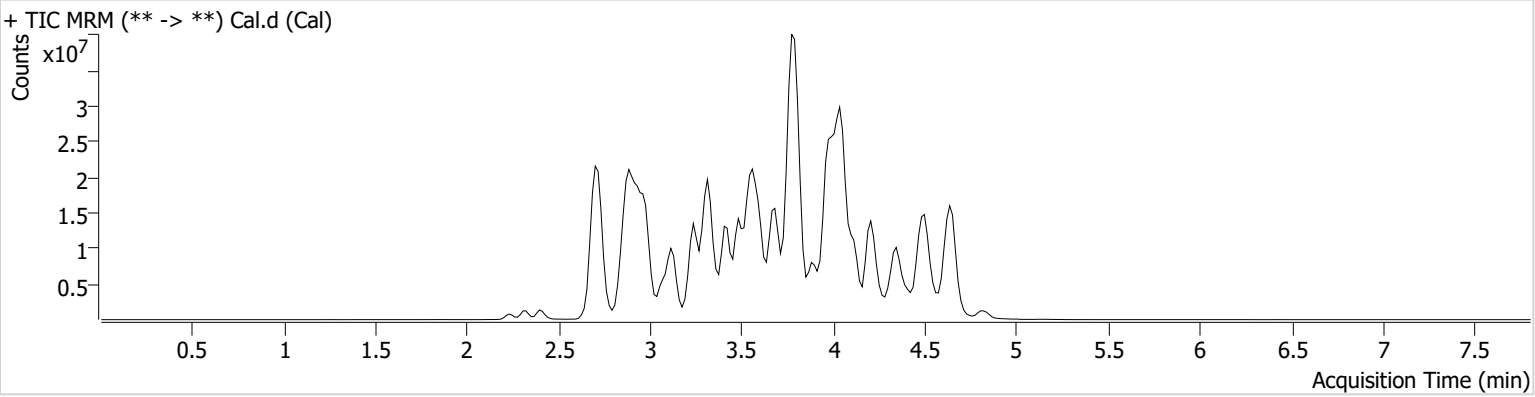


AM #25 Multi-Drug Screen. Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 10/20/2023 9:00:36 AM

Instrument	Falco (069901)	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 MDS.m	**Operator**	Celena Shrum
Sample Position	P2-B1	**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.
Injection Volume	5		
Acq. Date-Time	10/17/2023 4:59:22 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
10-OH-Carbamazepine	3.765	3627844	112.78	121.0	527.14	26897147	10.0000 ng/ml
6-MAM	2.851	83895	34913.16	64.7	24389.14	3114877	10.0000 ng/ml
7-aminoclonazepam	3.577	1589519	488.31	83.8	350.03	7844686	10.0000 ng/ml
7-aminoflunitrazepam	3.777	2098288	241.16	23.1	124.65	7844686	10.0000 ng/ml
9-Hydroxyrisperidone	3.785	8744795	2679.82	2.5	421.09	42376538	10.0000 ng/ml
Acetyl Fentanyl	3.727	454919	353.31	76.8	209778.97	40941171	10.0000 ng/ml
Acetyl Norfentanyl	2.890	589967	403.44	34.6	156.31	40941171	10.0000 ng/ml
a-hydroxyalprazolam	4.498	605013	97.02	60.4	276458.65	7844686	10.0000 ng/ml
alpha-hydroxymidazolam	4.512	3092318	358.37	57.1	663.13	7844686	10.0000 ng/ml
Alpha-PHP	3.765	6019818	6714.37	36.5	760.45	40941171	10.0000 ng/ml
alpha-PVP	3.489	10333771	1351.64	47.2	593.26	22449222	10.0000 ng/ml
Alprazolam	4.593	4372157	779.49	89.3	1238.67	37689119	10.0000 ng/ml
Amitriptyline	4.366	1042099	266.22	73.5	180.47	3336763	10.0000 ng/ml
Amphetamine	2.894	5255918	872.97	218.3	4093.16	22449222	10.0000 ng/ml
Benzoylecgonine	3.392	178855	488.37	26.9	211.35	728677	10.0000 ng/ml
Bromazolam	4.665	1723274	686.06	137.4	10654.56	37689119	10.0000 ng/ml
Brompheniramine	3.990	156033	75845.56	950.7	420.29	55027963	10.0000 ng/ml
Buprenorphine	4.046	75129	16705.74	13.7	6579.25	3284037	10.0000 ng/ml
Bupropion	3.688	7451764	1443.30	61.7	929.82	31937450	10.0000 ng/ml
Carbamazepine	4.214	18530228	∞	89.7	752.00	746731	10.0000 ng/ml
Carisoprodol	4.213	2990499	588.81	60.7	294.19	17976488	10.0000 ng/ml
Chlordiazepoxide	4.641	1855312	808.56	64.2	381.88	37689119	10.0000 ng/ml
Chlorpheniramine	3.901	10117181	582.63	0.2	26.83	14820875	10.0000 ng/ml
Chlorpromazine	4.530	562209	2931.97	151.3	322.97	2452077	10.0000 ng/ml
Citalopram	4.020	3943543	725.74	36.7	796542.84	55027963	10.0000 ng/ml
Clomipramine	4.546	715251	557.34	79.7	2827.29	55027963	10.0000 ng/ml
Clonazepam	4.422	4059736	254315.49	32.0	715776.52	746731	10.0000 ng/ml
Clonazolam	4.342	2710939	1483329.18	34.8	839482.47	37689119	10.0000 ng/ml
Clozapine	4.112	4109266	1102.48	75.5	596.70	18910332	10.0000 ng/ml
Cocaethylene	3.743	8019565	4961240.40	47.1	12303.91	44256445	10.0000 ng/ml

AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Cocaine	3.544	9476913	1522.41	18.0	1263.30	44256445	10.0000 ng/ml
Codeine	2.748	549400	3165.51	101.2	2350.53	15872708	10.0000 ng/ml
Cyclobenzaprine	4.288	1980005	740.07	7.8	132.70	3336763	10.0000 ng/ml
Desipramine	4.320	2517818	1258.77	43.6	324.42	3336763	10.0000 ng/ml
Dextromethorphan	4.025	2633815	552.96	74.6	188795.09	14820875	10.0000 ng/ml
Dextrorphan	3.363	4566795	1240.73	51.4	1543.36	14820875	10.0000 ng/ml
Diazepam	4.826	2391955	15057.20	94.3	986.73	37689119	10.0000 ng/ml
Dihydrocodeine	2.717	1449718	1265.33	59.6	843.67	15872708	10.0000 ng/ml
Diphenhydramine	3.995	17184453	46332.83	26.9	6778.63	55027963	10.0000 ng/ml
DMT	2.953	817740	2616.67	104.8	1493.63	14820875	10.0000 ng/ml
Doxepin	4.086	1936477	2252.00	45.6	81.34	23474653	10.0000 ng/ml
Doxylamine	3.608	17070450	340.55	91.4	434.00	14820875	10.0000 ng/ml
Duloxetine	4.271	28901	12398.99	884.9	486.09	357822	10.0000 ng/ml
EDDP	4.039	1001506	198.25	49.6	280.32	4946532	10.0000 ng/ml
Estazolam	4.502	8397395	1760.25	50.4	1207.96	37689119	10.0000 ng/ml
Etizolam	4.604	338472	244145.01	364.8	498410.53	37689119	10.0000 ng/ml
Fentanyl	3.958	266329	69.65	79.4	73268.71	19387687	10.0000 ng/ml
Flualprazolam	4.467	1978034	955875.05	119.4	930389.37	37689119	10.0000 ng/ml
Flunitrazepam	4.531	3135940	19720.00	40.7	194.12	37689119	10.0000 ng/ml
Fluorofentanyl	3.971	349941	21948.98	91.9	594.73	19387687	10.0000 ng/ml
Fluoxetine	4.285	942051	4814.34	7.2	142.18	1004517	10.0000 ng/ml
Flurazepam	4.063	4433888	618.23	22.3	79834.73	37689119	10.0000 ng/ml
Hydrocodone	2.931	2526410	1998.01	34.7	1603.86	15872708	10.0000 ng/ml
Hydromorphone	2.399	2338775	4452.43	72.3	1159.12	864712	10.0000 ng/ml
Hydroxyzine	4.387	2655491	3098.44	74.8	1101.21	18910332	10.0000 ng/ml
Imipramine	4.334	3852382	924.45	65.4	847.49	3336763	10.0000 ng/ml
Ketamine	3.334	5435557	1514.72	35.8	286.24	21567299	10.0000 ng/ml
Lamotrigine	3.487	491410	1157.63	87.1	1247.10	55027963	10.0000 ng/ml
Levamisole	2.906	4529351	995.31	85.0	492.10	44256445	10.0000 ng/ml
Levetiracetam	2.664	3672458	688.96	69.5	577.35	55027963	10.0000 ng/ml
Lorazepam	4.422	966595	260.39	281.5	∞	37689119	10.0000 ng/ml
Maprotiline	4.366	787612	117.39	74.6	297622.32	3336763	10.0000 ng/ml
MDA	2.999	5188635	964.69	39.4	672.37	42126372	10.0000 ng/ml
MDEA	3.229	7760433	874.43	51.1	699.86	42126372	10.0000 ng/ml
MDMA	3.075	9836936	2129.57	47.7	864.74	42126372	10.0000 ng/ml
Meperidine	3.564	4129795	2824.87	59.7	489.22	14820875	10.0000 ng/ml
Meprobamate	3.675	2244733	3037.27	23.5	273.91	17976488	10.0000 ng/ml
Methadone	4.346	8782845	617.87	42.5	789.50	4946532	10.0000 ng/ml
Methamphetamine	2.986	10385913	2766.98	39.7	499.47	42126372	10.0000 ng/ml
Methocarbamol	3.580	847898	306.63	105.6	211.38	4946532	10.0000 ng/ml
Methylphenidate	3.489	18589220	1135.86	22.5	48.58	28163906	10.0000 ng/ml
Metoprolol	3.424	1300919	10449.71	101.6	1236.91	14820875	10.0000 ng/ml
Midazolam	4.498	919915	1461.02	97.0	397860.84	37689119	10.0000 ng/ml
Mirtazapine	3.655	3882552	1270.70	234.3	3829.84	14820875	10.0000 ng/ml
Mitragynine	4.078	591925	441689.01	222.6	609572.54	14820875	10.0000 ng/ml
Morphine	2.233	506316	2086.54	74.6	810.33	864712	10.0000 ng/ml
Norbuprenorphine	3.785	94202	43315.30	109.4	127065.92	3284037	10.0000 ng/ml
Nordiazepam	4.674	2464025	197808.55	64.8	11669.24	37689119	10.0000 ng/ml
Norfentanyl	3.319	10135555	731.24	36.8	1291.92	40941171	10.0000 ng/ml
Norhydrocodone	2.918	235519	185.90	52.5	68.18	864712	10.0000 ng/ml
Norketamine	3.320	997796	503.35	505.0	9727.68	21567299	10.0000 ng/ml
Normeperidine	3.581	5048896	4383.52	66.4	1116.23	55027963	10.0000 ng/ml
Noroxycodone	2.870	2207507	129.23	28.7	499.55	21567299	10.0000 ng/ml
Nortriptyline	4.367	689244	51671.37	65.6	199.98	3336763	10.0000 ng/ml
O-desmethyl-tramadol	2.904	11657825	2119.22	5.4	546.65	55027963	10.0000 ng/ml
O-desmethylvenlafaxine	3.240	2918903	664.39	590.5	50565.59	16844496	10.0000 ng/ml
Olanzapine	3.406	1348540	816210.06	54.3	855.03	746731	10.0000 ng/ml
Oxazepam	4.487	4075927	344.73	77.0	144.63	29982866	10.0000 ng/ml
Oxycodone	2.883	4795063	1946.86	27.7	1163.69	21567299	10.0000 ng/ml

AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Oxymorphone	2.321	2626798	∞	44.7	375.36	864712	10.0000 ng/ml
Paroxetine	4.282	142165	88.33	54.3	116.93	1004517	10.0000 ng/ml
Phenazepam	4.619	4434547	530.25	70.7	934.34	37689119	10.0000 ng/ml
Phencyclidine	3.889	9845255	911.35	67.1	1435.34	14820875	10.0000 ng/ml
Phentermine	3.139	2084581	673.04	8.5	33.46	28163906	10.0000 ng/ml
Phenytoin	4.120	1490090	541.34	79.6	166.33	746731	10.0000 ng/ml
Primidone	3.475	3753791	489.29	83.5	501.42	746731	10.0000 ng/ml
Promethazine	4.240	4336862	661.59	31.7	979.18	55027963	10.0000 ng/ml
Pseudoephedrine	2.719	63802322	∞	40.0	23140.73	42126372	10.0000 ng/ml
Quetiapine	4.202	5152232	683938.88	52.4	2416.09	47931903	10.0000 ng/ml
Risperidone	3.955	9620988	12654.93	10.4	663.24	42376538	10.0000 ng/ml
Sertraline	4.501	175283	86854.79	115.1	201.52	1004517	10.0000 ng/ml
Sufentanil	4.202	166104	2078.55	72.1	896.17	40941171	10.0000 ng/ml
Tapentadol	3.429	8416288	640.98	33.8	2896.41	21567299	10.0000 ng/ml
Temazepam	4.656	7706751	433.16	26.0	135.28	37689119	10.0000 ng/ml
Topiramate	3.849	180211	72914.57	41.5	171300.94	727433	10.0000 ng/ml
Tramadol	3.409	27682404	∞	1.6	206.17	55027963	10.0000 ng/ml
Trazodone	4.063	4577398	935.19	76.7	4585.67	23474653	10.0000 ng/ml
Venlafaxine	3.778	9128602	1670.43	30.3	599.33	16844496	10.0000 ng/ml
Xylazine	3.351	3674468	4367.63	45.9	36.16	21567299	10.0000 ng/ml
Zaleplon	4.332	3492841	302.96	77.4	426.15	47931903	10.0000 ng/ml
Zolpidem	3.806	12585911	5409.73	26.9	6686.72	47931903	10.0000 ng/ml
Zopiclone	3.724	1084465	292611.86	62.1	197420.14	5661711	10.0000 ng/ml

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

Extraction Date: 10/17/2023
Plate lot#: 220802
Mobile phase A: 10mM Amm Form
Blank Blood Lot: Lampire 23E52981
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Retest Date: 07/23/2023- external control used
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 mid-way through due to high pressure. The issue was corrected and the run was restarted with no further issues.

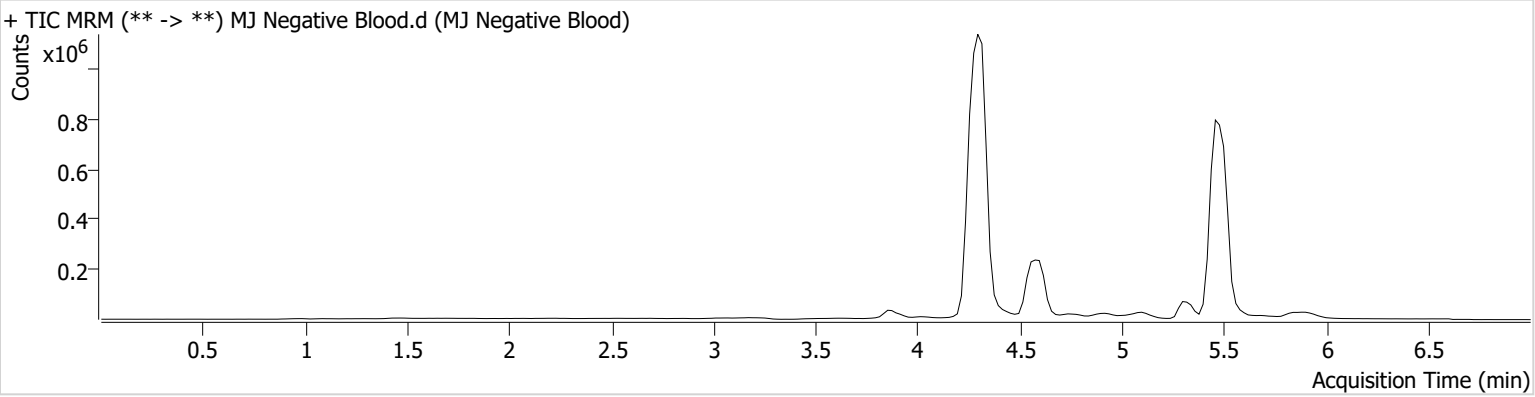
	1	2	3	4	5	6
a	cal 1ng	QC 2	M2023-4058-1	P2023-2971-1	P2023-3015-1	
b	cal 3 ng	Blood NEG	M2023-4090-1	P2023-2977-1	P2023-3022-1	
c	cal 5 ng	Blood External Control	M2023-4163-1	P2023-2992-1	P2023-3030-1	
d	cal 10ng	M2023-3884-1	M2023-4209-5	P2023-2998-1	P2023-3037-1	
e	cal 25 ng	M2023-3938-1	P2023-2621-1	P2023-3000-2	P2023-3053-1	
f	cal 50 ng	M2023-4037-1	P2023-2621-2	P2023-3001-1	P2023-3055-1	
g	cal 100 ng	M2023-4038-1	P2023-2690-1	P2023-3010-1	P2023-3090-1	
h	QC 1	M2023-4039-1	P2023-2706-1	P2023-3013-1		

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 11:08:14 PM		
Sample Info.			

Sample Chromatogram

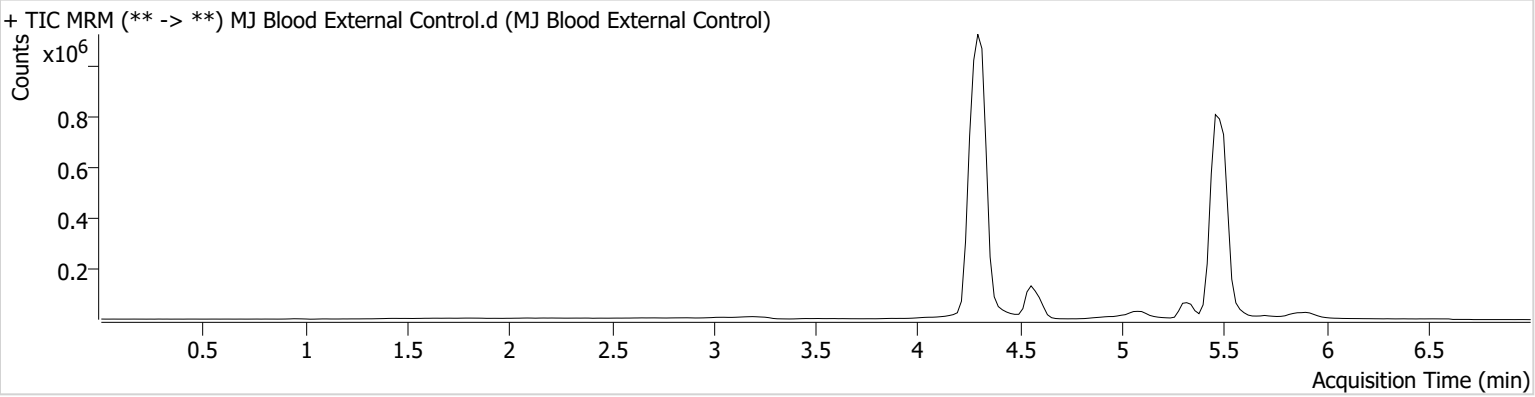


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

Instrument	Falco (069901)	**Data File**	MJ Blood External Control.d
Type	Sample	**Sample**	MJ Blood External Control
Acq. Method	AM 26 THC.m	**Operator**	Celena Shrum
Sample Position	P1-C2	**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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 11:15:49 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio		S/N	ISTD Resp.	Final Conc.
THC	5.449	70896	134.53	35.9	Low	17.28	220434	37.5394 ng/ml

Idaho State Police
Forensic Services

AM #26 Screening of THC and Metabolites and AM #27 Confirmation of THC and Metabolites Blood External Control Prep Sheet

Methanol External Control Solution (Lot: WS091323)
10 µL of 1mg/mL THC in 9990 µL MeOH
Approximate concentration 1ug/mL.

Component	***Source***	***Source Lot Number***	***Expiration Date***
Methanol (LCMS)	Fisher	217005	-
THC	Cerilliant	FE05252135	02/28/2027
Prepared:	09/13/2023		
Expires:	09/13/2024		
Prepared By:	Tamara Salazar		

Blood External Control Solution (Lot: 091323)
500 ul of methanol external control solution was added to 9500 ul of blood.
Approximately 50ng/mL each

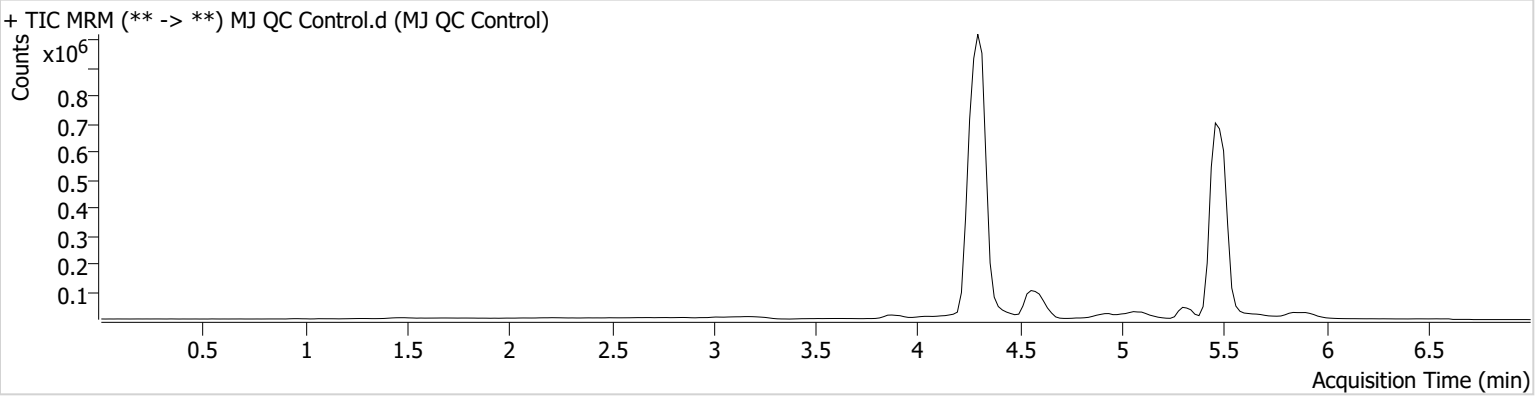
Component	***Source***	***Source Lot Number***
Negative Blood	Lampire	23E52981
Methanol External Control Solution	-	WS101322
Prepared:	09/13/2023	
Expires:	09/13/2024	
Prepared by:	Tamara Salazar	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 10:53:04 PM		
Sample Info.			

Sample Chromatogram



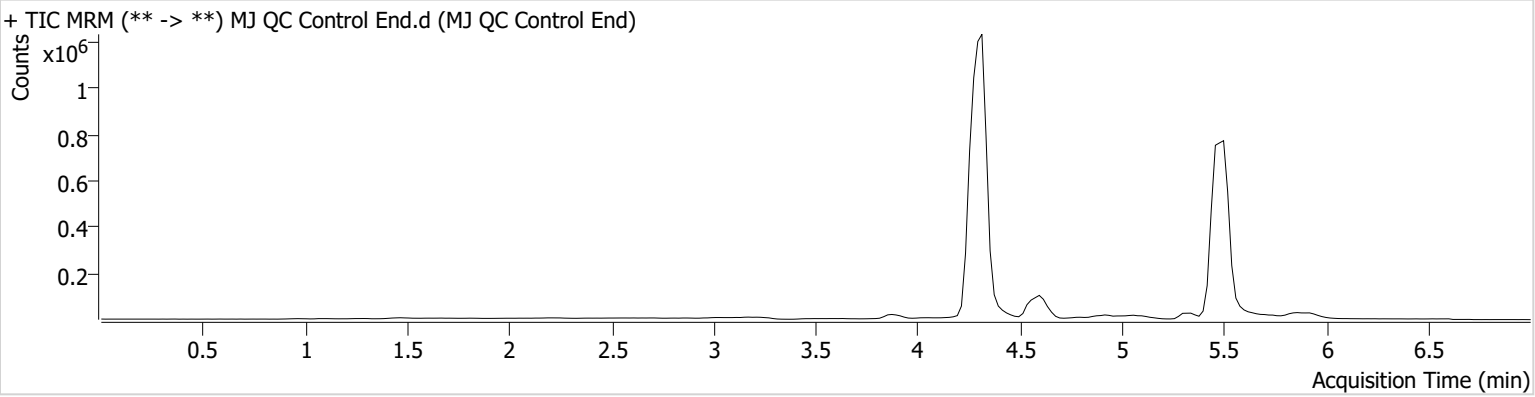
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	6652	∞	103.8 **Low**	38.73	154769	5.6176 ng/ml
THC-COOH	4.596	72406	96.04	156.9	∞	487027	13.5907 ng/ml
THC-OH	4.322	55668	∞	784.6	∞	5340435	4.5331 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/18/2023 10:15:21 AM		
Sample Info.			

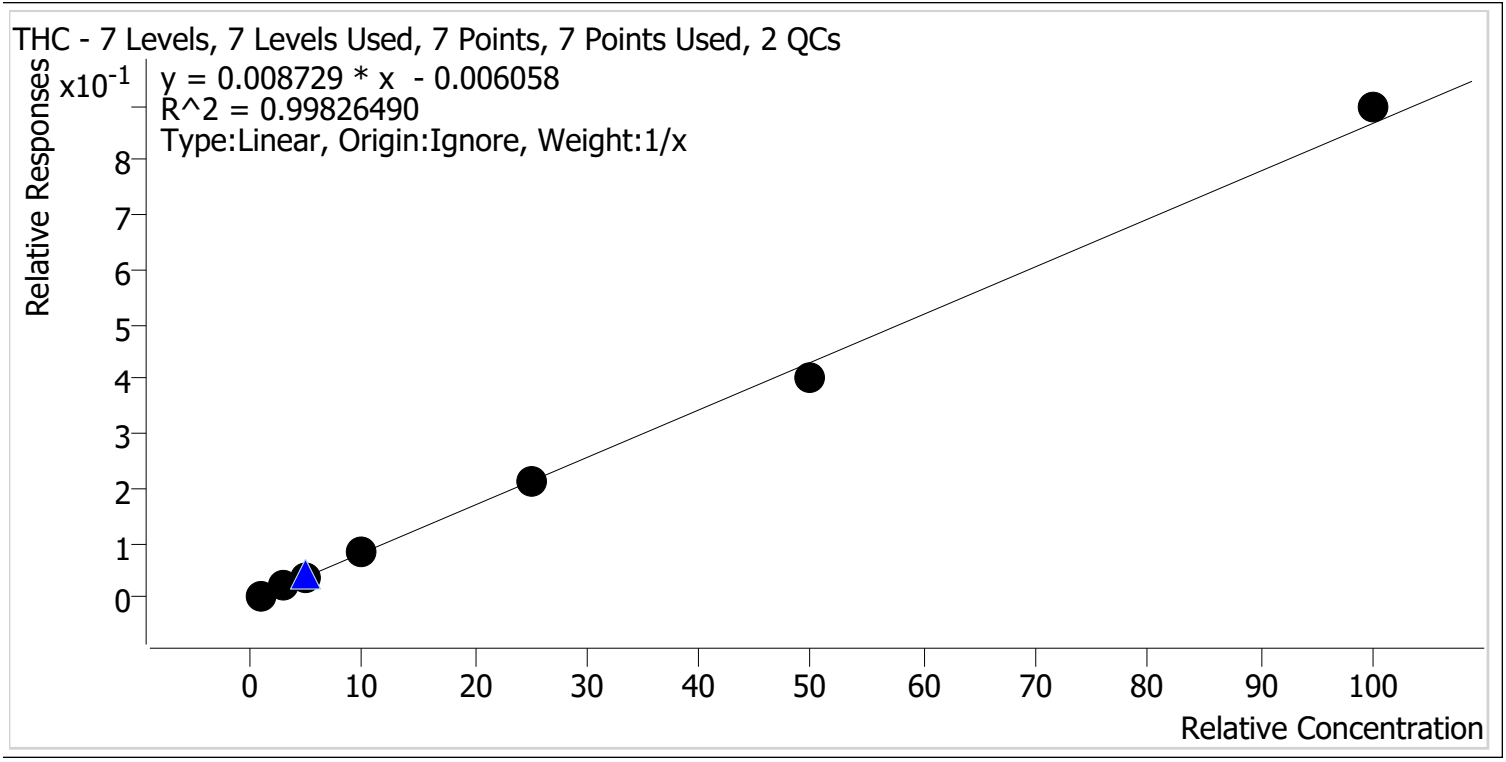
Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.429	9243	∞	90.1 **Low**	∞	202062	5.9345 ng/ml
THC-COOH	4.616	79348	62.72	149.0	∞	442719	16.5262 ng/ml
THC-OH	4.322	64277	79.40	828.4	159.63	6279185	4.4551 ng/ml

AM #26 Cannabinoids Screen Calibration Curve Report

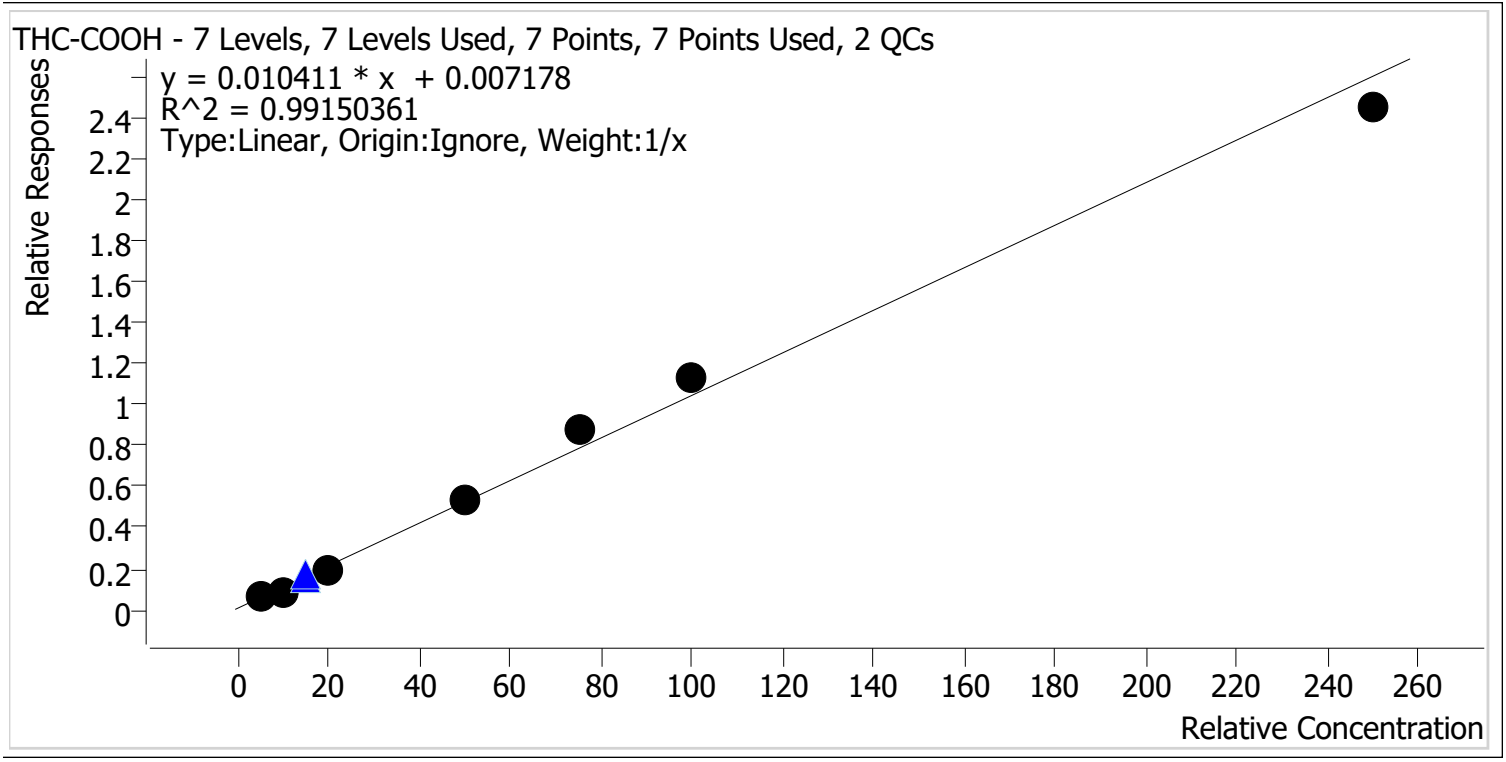
Batch results	D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	10/18/2023 10:25 AM
Analyst Name	ISP\Datastor
Analyte	THC
Internal Standard	THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	106.5
MJ Cal 2	2	✔	3.0	3.0	99.3
MJ Cal 3	3	✔	5.0	4.9	98.2
MJ Cal 4	4	✔	10.0	10.0	99.6
MJ Cal 5	5	✔	25.0	24.7	98.9
MJ Cal 6	6	✔	50.0	47.1	94.2
MJ Cal 7	7	✔	100.0	103.3	103.3

AM #26 Cannabinoids Screen Calibration Curve Report

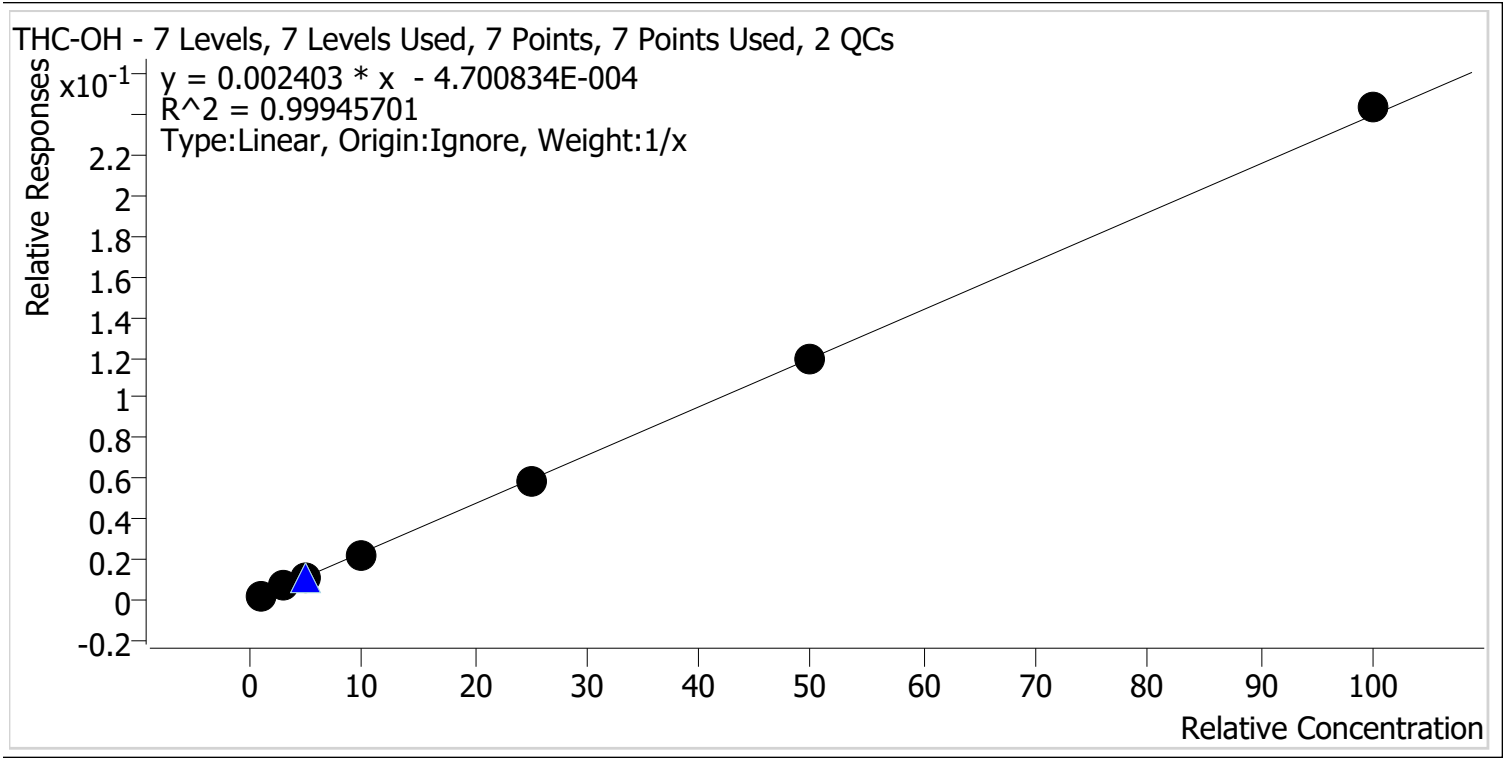
Batch results	D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	10/18/2023 10:25 AM
Analyst Name	ISP\Datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	5.0	5.7	114.9
MJ Cal 2	2	✔	10.0	7.8	77.8
MJ Cal 3	3	✔	20.0	18.1	90.7
MJ Cal 4	4	✔	50.0	51.5	103.0
MJ Cal 5	5	✔	75.0	83.5	111.3
MJ Cal 6	6	✔	100.0	108.1	108.1
MJ Cal 7	7	✔	250.0	235.2	94.1

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	10/18/2023 10:25 AM
Analyst Name	ISP\Datastor
Analyte	THC-OH
Internal Standard	THC-OH-D3



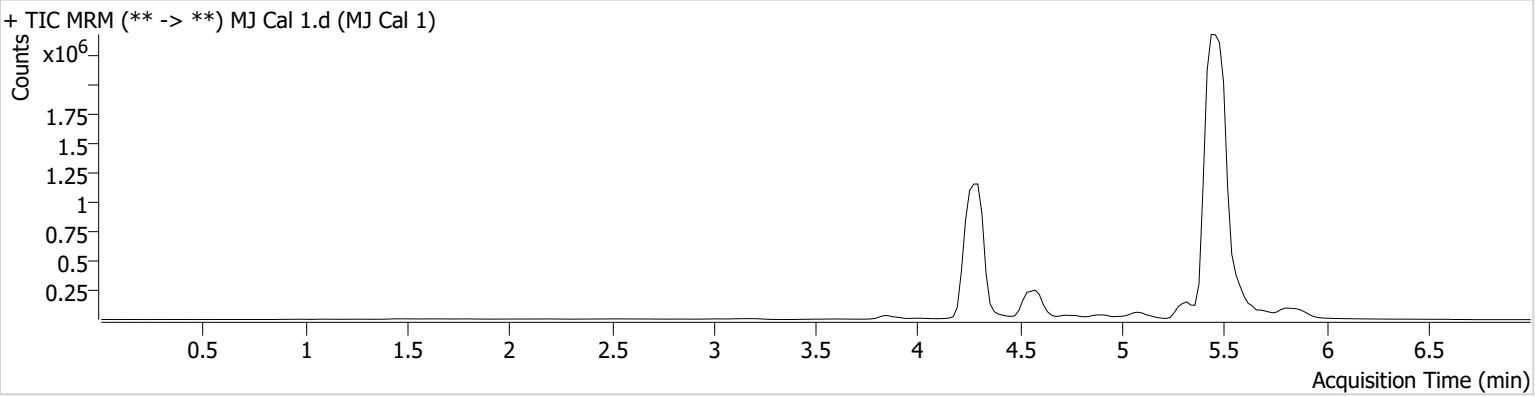
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	111.4
MJ Cal 2	2	✔	3.0	3.0	99.6
MJ Cal 3	3	✔	5.0	4.8	95.3
MJ Cal 4	4	✔	10.0	9.5	95.4
MJ Cal 5	5	✔	25.0	24.3	97.2
MJ Cal 6	6	✔	50.0	49.7	99.5
MJ Cal 7	7	✔	100.0	101.5	101.5

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 9:59:55 PM		
Sample Info.			

Sample Chromatogram



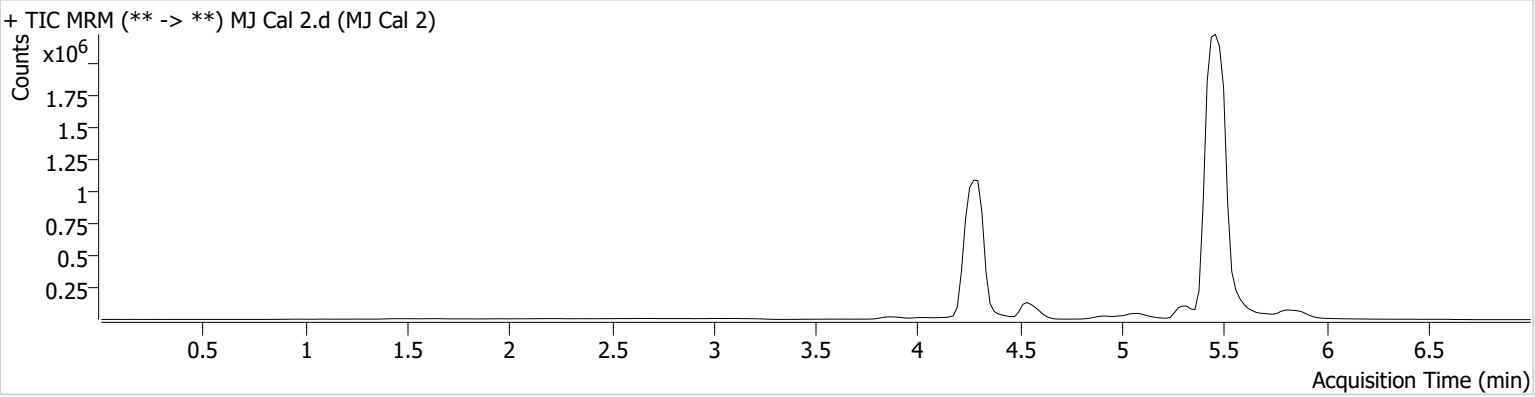
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.429	2463	3.31 **Low**	1193.8 **High**	∞	759773	1.0653 ng/ml
THC-COOH	4.596	90495	∞	170.3	∞	1350745	5.7458 ng/ml
THC-OH	4.302	15969	∞	1017.5 **High**	∞	7234377	1.1141 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 10:07:38 PM		
Sample Info.			

Sample Chromatogram



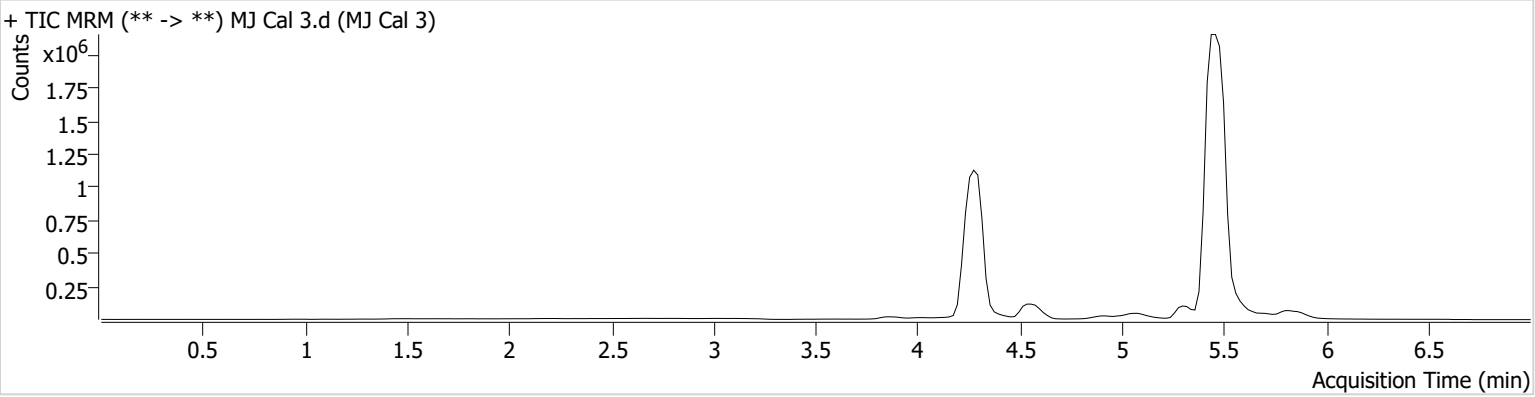
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.409	15244	∞	191.0 **Low**	∞	763910	2.9801 ng/ml
THC-COOH	4.576	56343	∞	158.5	∞	638930	7.7809 ng/ml
THC-OH	4.302	43763	∞	795.0	∞	6520005	2.9886 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 10:15:12 PM		
Sample Info.			

Sample Chromatogram



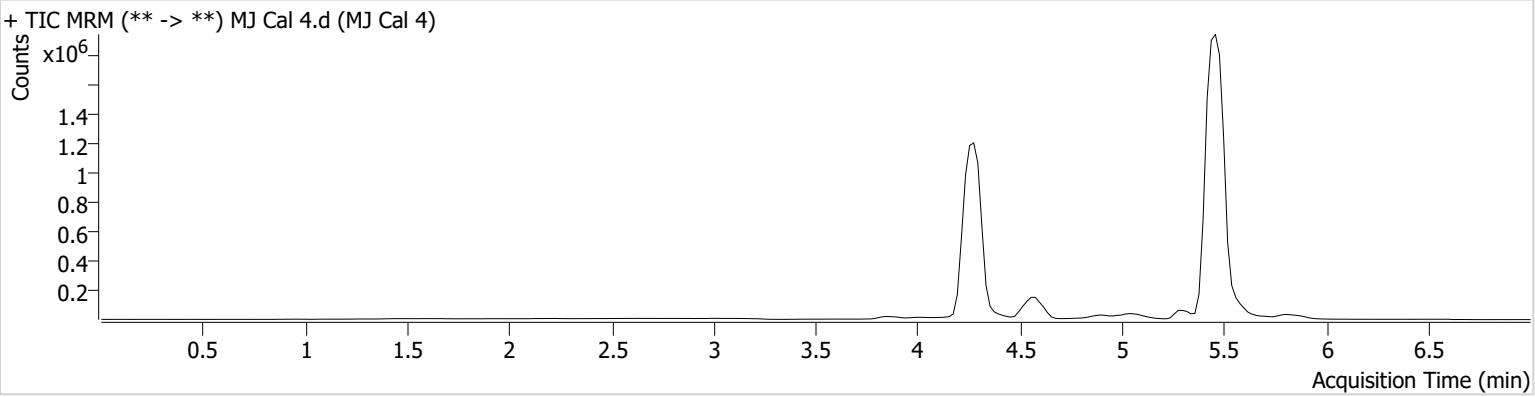
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.409	22879	∞	126.0 **Low**	∞	621664	4.9102 ng/ml
THC-COOH	4.576	104212	∞	144.8	88.80	531447	18.1459 ng/ml
THC-OH	4.282	68873	∞	792.0	∞	6270813	4.7658 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 10:22:47 PM		
Sample Info.			

Sample Chromatogram



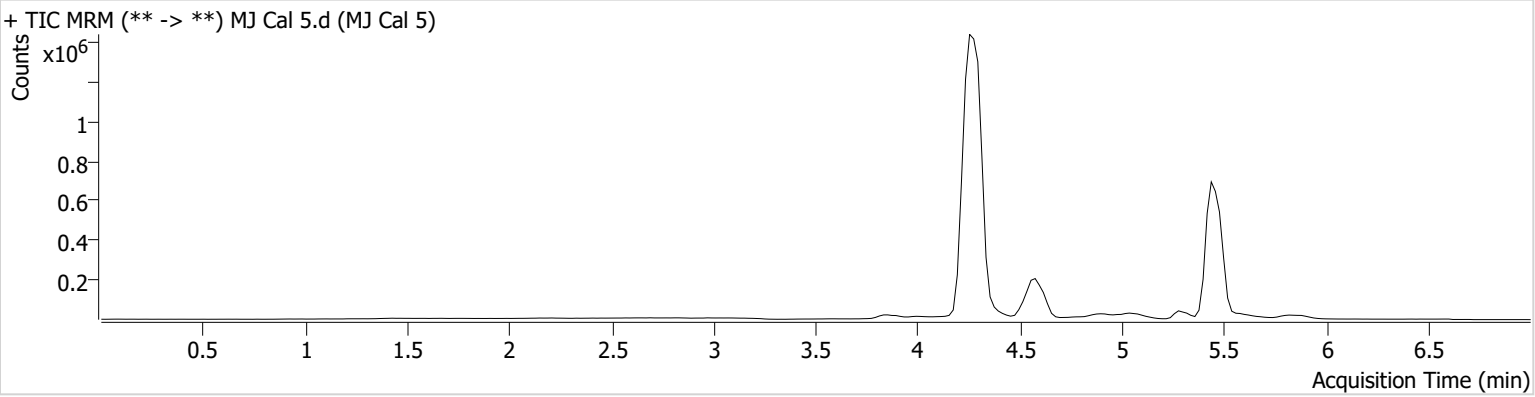
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.409	41139	∞	75.1 **Low**	∞	508574	9.9610 ng/ml
THC-COOH	4.576	229223	∞	150.6	∞	421703	51.5220 ng/ml
THC-OH	4.282	137595	∞	763.8	∞	6125973	9.5419 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 10:30:22 PM		
Sample Info.			

Sample Chromatogram



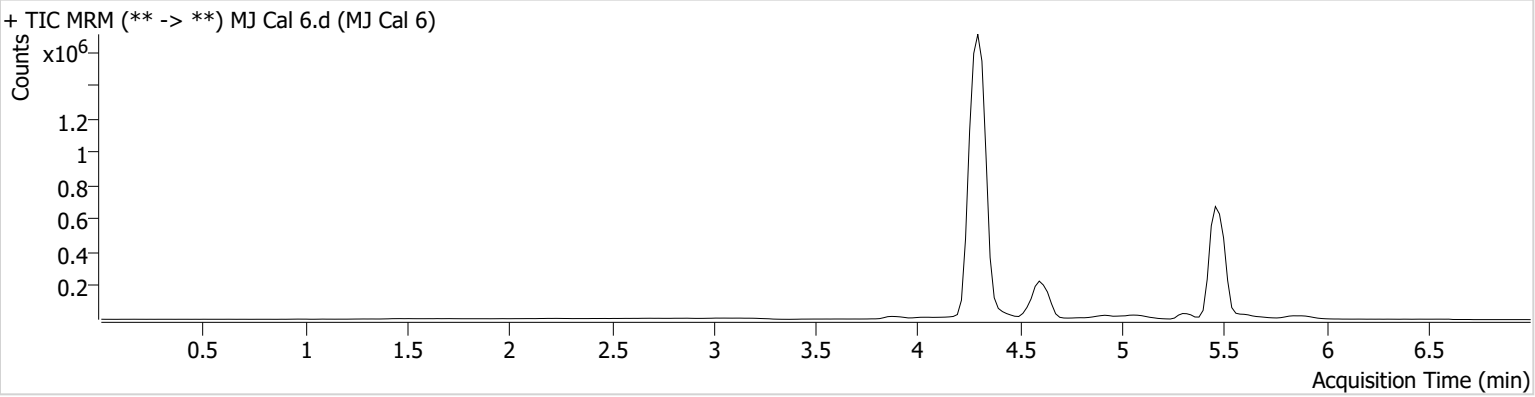
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.429	34052	∞	40.4 **Low**	24.53	162390	24.7164 ng/ml
THC-COOH	4.576	350798	∞	155.2	∞	400401	83.4649 ng/ml
THC-OH	4.262	348674	∞	748.8	∞	6019577	24.2983 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 10:37:55 PM		
Sample Info.			

Sample Chromatogram



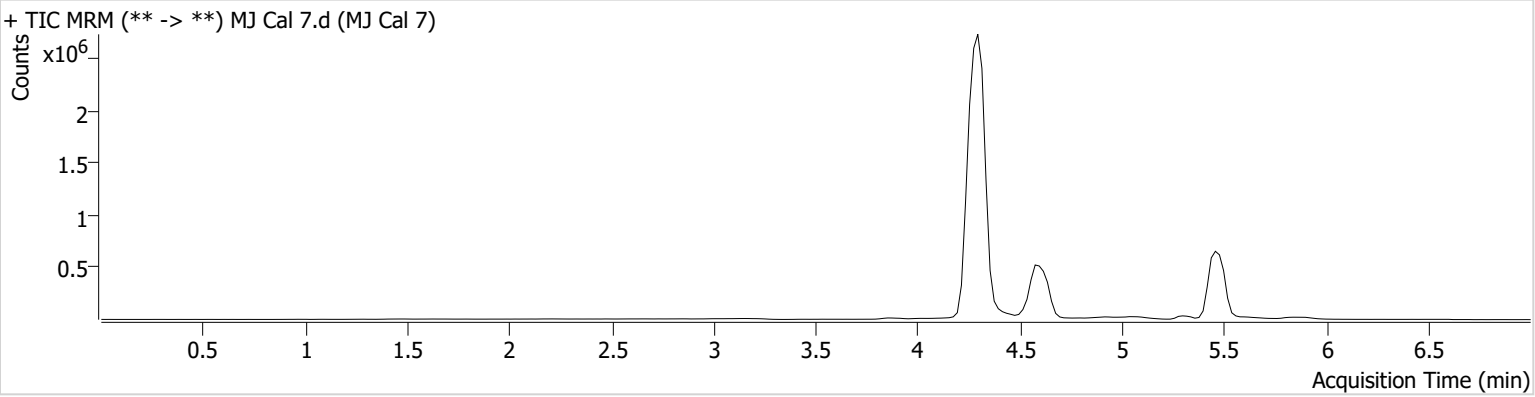
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	62410	257.68	32.7 **Low**	∞	154123	47.0841 ng/ml
THC-COOH	4.596	393426	∞	155.8	∞	347269	108.1313 ng/ml
THC-OH	4.302	572077	∞	737.9	∞	4803928	49.7487 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\101723 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 10/18/2023 10:25:11 AM

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**	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.
Injection Volume	10		
Acq. Date-Time	10/17/2023 10:45:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio		S/N	ISTD Resp.	Final Conc.
THC	5.429	126352	1155.34	28.9	Low	∞	141097	103.2828 ng/ml
THC-COOH	4.596	1106722	∞	154.6		333.38	450638	235.2093 ng/ml
THC-OH	4.302	1264526	∞	751.5		∞	5191937	101.5426 ng/ml