








TS

Worklist: 6506

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-3012	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3561	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3585	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3610	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3653	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3670	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3684	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3684	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3807	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3812	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3894	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2023-3895	1	COBCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2388	5	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2839	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2840	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2844	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2845	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2846	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2854	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2856	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2857	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 6506

TS

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2023-2858	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2859	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2868	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2871	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2872	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2873	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2023-2876	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

TS

Extraction Date: 09/26/2023

Analyst: Tamara Salazar

Plate lot#: 230712

Plate Retest Date: 01/12/2024

Mobile phase A: 10mM Amm Form in LCMS Water

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Blood Lot: Lampire 23E52981

Blank Urine Lot: POC021022

LCMS-QQQ ID: 069901

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: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.**
- 3. Using a calibrated pipette, pipette 250µL blood or 250µL hydrolyzed urine in wells of analytical (standards) plate. Pipette ID: 42
- 4. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: 250uL
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). **(Load at 85-100 PSI- Selector to the right).**
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 12. Add **900uL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. Add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying. This step is required for urine samples, but optional for blood samples.
- 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: Calibrator initially had the wrong well position specified. The well position was corrected and the calibrator was injected without issue.

TS

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2873-1	P2023-2854-1	M2023-3894-1	M2023-3585-1
B	IS + Cal. 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2872-1	P2023-2846-1	M2023-3812-1	M2023-3561-2
C	IS + Control 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2871-1	P2023-2845-1	M2023-3807-4	M2023-3012-1
D	IS + Control 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2868-1	P2023-2844-1	M2023-3684-2	Blood Neg
E	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2859-1	P2023-2840-1	M2023-3684-1	IS + Control 1
F	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2858-1	P2023-2839-1	M2023-3670-2	IS + Control 1
G	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2857-1	P2023-2388-5	M2023-3653-1	IS + Cal. 1
H	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2023-2876-1	P2023-2856-1	M2023-3895-1	M2023-3610-1	IS + Cal. 1

All wells to contain 60 µl of residual DMSO

TS

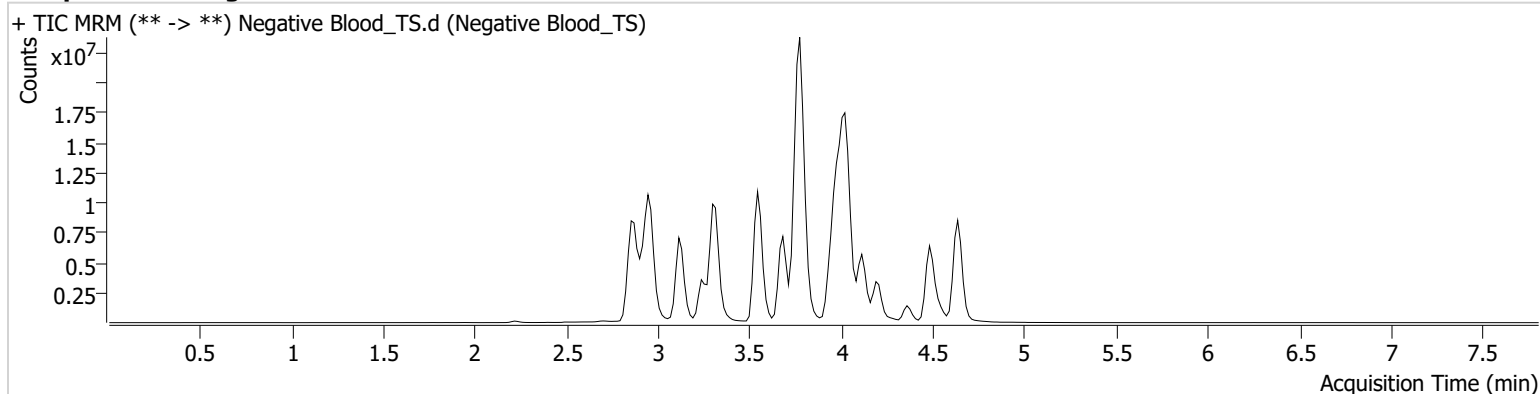


AM #25 Multi-Drug Screen. Results

Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 25 TS.batch.bin
Calibration Last Update 10/5/2023 9:48:40 AM

Instrument	Falco (069901)	Data File	Negative Blood_TS.d
Type	Sample	Sample	Negative Blood_TS
Acq. Method	AM 25 MDS.m	Operator	Tamara Salazar
Sample Position	P6-D12	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	9/27/2023 1:08:21 PM		
Sample Info.			

Sample Chromatogram



TS

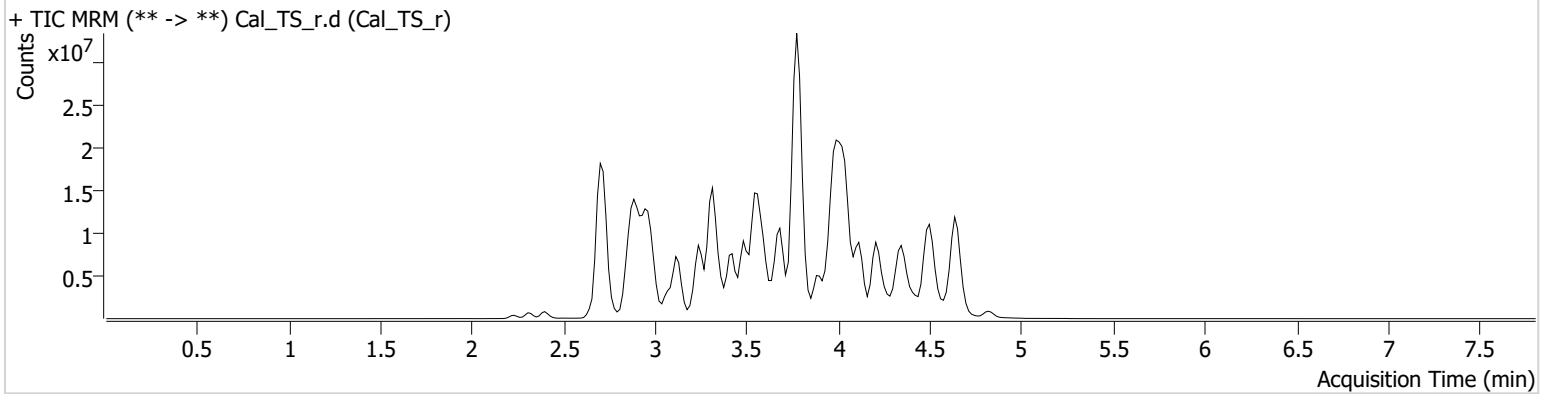


AM #25 Multi-Drug Screen. Results

Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 25 TS.batch.bin
Calibration Last Update 10/5/2023 9:48:40 AM

Instrument	Falco (069901)	Data File	Cal_TS_r.d
Type	Cal	Sample	Cal_TS_r
Acq. Method	AM 25 MDS.m	Operator	Tamara Salazar
Sample Position	P6-G12	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	9/27/2023 3:59:27 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
10-OH-Carbamazepine	3.765	2585557	97.48	111.3	387.54	17925986	10.0000 ng/ml
6-MAM	2.851	50606	38803.46	69.7	33935.47	1570952	10.0000 ng/ml
7-aminoclonazepam	3.561	1161741	12791.65	80.2	4812.87	5612674	10.0000 ng/ml
7-aminoflunitrazepam	3.777	1683480	1506.87	22.0	199.02	5612674	10.0000 ng/ml
9-Hydroxyrisperidone	3.785	5896926	4990230.83	2.5	39558.32	30714220	10.0000 ng/ml
Acetyl Fentanyl	3.727	293201	336.25	78.9	138806.27	32318023	10.0000 ng/ml
Acetyl Norfentanyl	2.890	450891	2070.53	31.3	257.51	32318023	10.0000 ng/ml
a-hydroxyalprazolam	4.498	354091	285.49	51.3	1392.30	5612674	10.0000 ng/ml
alpha-hydroxymidazolam	4.512	1865283	732.85	60.7	427.29	5612674	10.0000 ng/ml
Alpha-PHP	3.765	3813495	2329.92	35.6	3602.29	32318023	10.0000 ng/ml
alpha-PVP	3.489	6207839	658.91	47.8	361.98	15195836	10.0000 ng/ml
Alprazolam	4.593	2591056	862.39	93.6	191.45	24669645	10.0000 ng/ml
Amitriptyline	4.366	1129158	113.29	67.1	550.98	3278732	10.0000 ng/ml
Amphetamine	2.894	3743961	511.21	228.1	1781.19	15195836	10.0000 ng/ml
Benzoylcegonine	3.392	119777	71.82	27.1	417.51	488346	10.0000 ng/ml
Bromazolam	4.665	1064273	208142.70	147.6	4108.40	24669645	10.0000 ng/ml
Brompheniramine	3.990	106197	40383.10	873.3	9885.73	46438402	10.0000 ng/ml
Buprenorphine	4.046	53852	21177.11	14.4	2272.51	2318715	10.0000 ng/ml
Bupropion	3.688	4846214	957.03	64.4	2201.43	21581714	10.0000 ng/ml
Carbamazepine	4.229	11623524	∞	90.9	1354.92	842514	10.0000 ng/ml
Carisoprodol	4.213	1615208	∞	63.0	145.53	9474506	10.0000 ng/ml
Chlordiazepoxide	4.625	993494	118.29	77.7	665.22	24669645	10.0000 ng/ml
Chlorpheniramine	3.901	6731283	6356.26	0.2	21.78	10445648	10.0000 ng/ml
Chlorpromazine	4.530	627507	245988.71	165.2	161948.86	2814319	10.0000 ng/ml
Citalopram	4.020	3020899	598.47	32.4	330391.87	46438402	10.0000 ng/ml
Clomipramine	4.561	730186	37734.58	77.5	1393.98	46438402	10.0000 ng/ml
Clonazepam	4.422	2572738	443.21	29.3	243411.47	842514	10.0000 ng/ml
Clonazolam	4.357	1849460	764557.99	32.7	206554.38	24669645	10.0000 ng/ml
Clozapine	4.112	3424282	1323.49	77.2	2231.62	14944146	10.0000 ng/ml
Cocaethylene	3.743	4862921	2660459.71	46.8	935319.21	29572190	10.0000 ng/ml

TS



AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Cocaine	3.544	5169391	80095.48	19.4	1946.18	29572190	10.0000 ng/ml
Codeine	2.748	369637	6305.81	92.8	221996.26	10180006	10.0000 ng/ml
Cyclobenzaprine	4.288	1761949	524.00	7.8	124.14	3278732	10.0000 ng/ml
Desipramine	4.336	2556437	579.86	43.7	747.01	3278732	10.0000 ng/ml
Dextromethorphan	4.025	1920188	402.13	76.9	405.19	10445648	10.0000 ng/ml
Dextrorphan	3.363	2810858	906.02	53.0	600252.61	10445648	10.0000 ng/ml
Diazepam	4.826	1527450	957.48	91.2	4221.90	24669645	10.0000 ng/ml
Dihydrocodeine	2.717	965301	278.11	60.0	293.02	10180006	10.0000 ng/ml
Diphenhydramine	3.995	11210778	2003.39	28.0	27183.43	46438402	10.0000 ng/ml
DMT	2.968	394413	1741.33	119.1	2859.58	10445648	10.0000 ng/ml
Doxepin	4.086	1664062	825.20	44.4	52.68	18302350	10.0000 ng/ml
Doxylamine	3.593	8855637	25688219.26	95.2	1084.06	10445648	10.0000 ng/ml
Duloxetine	4.286	27868	17556.96	1090.1	3858.84	411783	10.0000 ng/ml
EDDP	4.055	265476	157.05	43.8	26787.30	1304999	10.0000 ng/ml
Estazolam	4.518	5364784	889.16	49.2	1174.76	24669645	10.0000 ng/ml
Etizolam	4.619	251380	100237.95	404.2	509925.94	24669645	10.0000 ng/ml
Fentanyl	3.958	199488	106.06	67.8	1277.09	14571049	10.0000 ng/ml
Flualprazolam	4.467	1052022	318309.33	126.7	404722.54	24669645	10.0000 ng/ml
Flunitrazepam	4.531	1460569	329.72	37.6	136.06	24669645	10.0000 ng/ml
Fluorofentanyl	3.971	283427	197.57	88.9	578.72	14571049	10.0000 ng/ml
Fluoxetine	4.285	1244337	888.38	7.3	68.60	1454468	10.0000 ng/ml
Flurazepam	4.063	2694395	1634.83	24.7	336.50	24669645	10.0000 ng/ml
Hydrocodone	2.931	1594982	2849.20	37.2	1026.28	10180006	10.0000 ng/ml
Hydromorphone	2.399	1356350	5453.11	75.3	1167.66	348226	10.0000 ng/ml
Hydroxyzine	4.387	2129964	1853.76	74.7	792.32	14944146	10.0000 ng/ml
Imipramine	4.334	3689040	1176.07	62.2	1161.39	3278732	10.0000 ng/ml
Ketamine	3.334	3374097	8553.21	37.4	215.55	12671564	10.0000 ng/ml
Lamotrigine	3.487	345306	436.41	76.3	94487.68	46438402	10.0000 ng/ml
Levamisole	2.906	2878424	4305.90	83.4	544.73	29572190	10.0000 ng/ml
Levetiracetam	2.664	1522319	850.26	169.9	510.70	46438402	10.0000 ng/ml
Lorazepam	4.422	624704	217.89	287.5	288.64	24669645	10.0000 ng/ml
Maprotiline	4.366	758982	265.43	77.5	178.11	3278732	10.0000 ng/ml
MDA	2.999	3141893	927.69	40.7	252.32	30620958	10.0000 ng/ml
MDEA	3.229	4692530	737.68	52.2	443.01	30620958	10.0000 ng/ml
MDMA	3.075	5631808	1015.82	50.3	591.68	30620958	10.0000 ng/ml
Meperidine	3.564	2584242	324.71	57.1	675.49	10445648	10.0000 ng/ml
Meprobamate	3.675	1150687	344.73	23.2	157.91	9474506	10.0000 ng/ml
Methadone	4.346	5827080	595.16	46.9	276.12	1304999	10.0000 ng/ml
Methamphetamine	2.986	6279286	992.71	38.9	462.28	30620958	10.0000 ng/ml
Methocarbamol	3.580	465772	4097.86	89.3	182.52	1304999	10.0000 ng/ml
Methylphenidate	3.489	10871282	1131.12	23.1	471.12	19615865	10.0000 ng/ml
Metoprolol	3.424	804198	3544.00	102.5	858.28	10445648	10.0000 ng/ml
Midazolam	4.467	608938	813.01	91.9	112252.25	24669645	10.0000 ng/ml
Mirtazapine	3.655	2807360	1350786.90	211.4	2296.46	10445648	10.0000 ng/ml
Mitragynine	4.078	464614	268899.65	213.7	506449.04	10445648	10.0000 ng/ml
Morphine	2.233	267923	∞	81.5	373.14	348226	10.0000 ng/ml
Norbuprenorphine	3.800	57538	46666.31	99.0	29791.03	2318715	10.0000 ng/ml
Nordiazepam	4.674	1731186	985764.01	65.2	780.84	24669645	10.0000 ng/ml
Norfentanyl	3.319	7367935	35623.56	35.5	2586.35	32318023	10.0000 ng/ml
Norhydrocodone	2.918	171539	173.66	46.6	46.32	348226	10.0000 ng/ml
Norketamine	3.320	610933	854.31	519.7	1857.63	12671564	10.0000 ng/ml
Normeperidine	3.581	3102490	336.76	68.4	453.40	46438402	10.0000 ng/ml
Noroxycodone	2.870	1561717	∞	29.2	418.91	12671564	10.0000 ng/ml
Nortriptyline	4.367	675921	76520.68	69.0	231.78	3278732	10.0000 ng/ml
O-desmethyl-tramadol	2.904	7424132	3643.68	5.7	704.24	46438402	10.0000 ng/ml
O-desmethylvenlafaxine	3.255	1788842	578.92	579.5	2955084.60	9842937	10.0000 ng/ml
Olanzapine	3.359	319439	213349.60	48.2	202.63	842514	10.0000 ng/ml
Oxazepam	4.502	2538907	310.73	75.4	696.05	20349773	10.0000 ng/ml
Oxycodone	2.883	2680840	1012.28	29.8	2246.27	12671564	10.0000 ng/ml

TS



AM #25 Multi-Drug Screen. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Oxymorphone	2.305	1349195	82.65	47.1	261.50	348226	10.0000 ng/ml
Paroxetine	4.282	213116	131.64	48.3	44329.03	1454468	10.0000 ng/ml
Phenazepam	4.619	3229526	1626877.13	66.0	779678.41	24669645	10.0000 ng/ml
Phencyclidine	3.889	6107057	474.11	60.8	439.22	10445648	10.0000 ng/ml
Phentermine	3.154	1203180	462.47	8.9	42.76	19615865	10.0000 ng/ml
Phenytoin	4.120	1676026	36977.50	78.5	387.03	842514	10.0000 ng/ml
Primidone	3.475	2803895	∞	87.1	502.57	842514	10.0000 ng/ml
Promethazine	4.256	4093039	361.15	31.0	325.90	46438402	10.0000 ng/ml
Pseudoephedrine	2.710	52916393	664.95	30.7	422762.58	30620958	10.0000 ng/ml
Quetiapine	4.202	3672586	21617.13	52.8	6623.40	35280037	10.0000 ng/ml
Risperidone	3.955	6126666	4345044.58	10.7	1355.86	30714220	10.0000 ng/ml
Sertraline	4.501	259183	98061.69	113.2	502.50	1454468	10.0000 ng/ml
Sufentanil	4.186	115932	39779.53	83.0	222.86	32318023	10.0000 ng/ml
Tapentadol	3.429	5027836	1217.98	35.1	434.59	12671564	10.0000 ng/ml
Temazepam	4.656	4920759	411.84	28.7	152.08	24669645	10.0000 ng/ml
Topiramate	3.849	88710	30963.88	45.1	39737.07	407007	10.0000 ng/ml
Tramadol	3.409	16336420	8.07	1.6	85.51	46438402	10.0000 ng/ml
Trazodone	4.048	3525617	1124.81	77.0	952097.32	18302350	10.0000 ng/ml
Venlafaxine	3.778	5710100	7425.11	30.2	923.17	9842937	10.0000 ng/ml
Xylazine	3.366	2339864	1645761.84	45.4	123.00	12671564	10.0000 ng/ml
Zaleplon	4.332	3163811	18592.78	69.9	1444.12	35280037	10.0000 ng/ml
Zolpidem	3.791	6901602	2967867.07	28.0	638.92	35280037	10.0000 ng/ml
Zopiclone	3.709	263227	39706.24	57.3	51010.61	1244478	10.0000 ng/ml

TS

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

Extraction Date: 09/26/2023

Plate lot#: 230113

Mobile phase A: 10mM Amm Form in LCMS Water

Blank Blood Lot: Lampire 23E52981

LCMS-QQQ ID: 069901

Analyst: Tamara Salazar

Plate Retest Date: 07/13/2023-external control included

Mobile phase B: 0.1% Formic acid in MeOH

Blank Urine Lot:

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: 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, pipette 1000µL blood or 1000µL hydrolyzed urine in wells of analytical (standards) plate. Pipette ID: 42
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Add 500µL of 0.1% formic acid in water to blood samples, and 500µL of saturated phosphate buffer to urine samples in the wells of the analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer 700-800µL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 750 µL
- 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)
- 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.
- 17. 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, R² 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

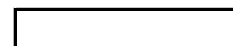
COMMENTS:

Case samples M2023-3561-2 and M2023-3585-1 initially had the wrong well positions specified. The well positions were corrected, and the samples were injected without issue.

TS

	1	2	3	4	5	6
A	IS + Cal. 1		M2023-3670-2	P2023-2839-1	P2023-2858-1	IS + QC_1
B	IS + Cal. 2	Neg Blood	M2023-3684-1	P2023-2840-1	P2023-2859-1	IS + Cal. 7
C	IS + Cal. 3	Blood Ext.	M2023-3684-2	P2023-2844-1	P2023-2868-1	IS + Cal. 6
D	IS + Cal. 4	M2023-3012-1	M2023-3807-4	P2023-2845-1	P2023-2871-1	IS + Cal. 5
E	IS + Cal. 5	M2023-3561-2	M2023-3812-1	P2023-2846-1	P2023-2872-1	IS + Cal. 4
F	IS + Cal. 6	M2023-3585-1	M2023-3894-1	P2023-2854-1	P2023-2873-1	IS + Cal. 3
G	IS + Cal. 7	M2023-3610-1	M2023-3895-1	P2023-2856-1	P2023-2876-1	IS + Cal. 2
H	IS + QC_1	M2023-3653-1	P2023-2388-5	P2023-2857-1	IS + QC_1	IS + Cal. 1

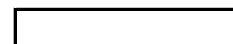
All wells to contain 100 μ l of residual DMSO



TS

	1	2	3	4	5	6
A	IS + Cal. 1		M2023-3670-2*	P2023-2839-1	P2023-2858-1	M2023-3610-1
B	IS + Cal. 2	Neg Blood	M2023-3684-1	P2023-2840-1	P2023-2859-1	M2023-3653-1
C	IS + Cal. 3	Blood Ext.	M2023-3684-2	P2023-2844-1	P2023-2868-1	M2023-3670-2
D	IS + Cal. 4	M2023-3012-1*	M2023-3807-4	P2023-2845-1	P2023-2871-1	P2023-2857-1
E	IS + Cal. 5	M2023-3561-2	M2023-3812-1	P2023-2846-1	P2023-2872-1	
F	IS + Cal. 6	M2023-3585-1	M2023-3894-1	P2023-2854-1	P2023-2873-1	
G	IS + Cal. 7	M2023-3610-1*	M2023-3895-1	P2023-2856-1	P2023-2876-1	
H	IS + QC_1	M2023-3653-1*	P2023-2388-5	P2023-2857-1*	M2023-3012-1	

*Moved during step 7 of the analysis due to clotting



TS



AM #26 Cannabinoids Screen Results

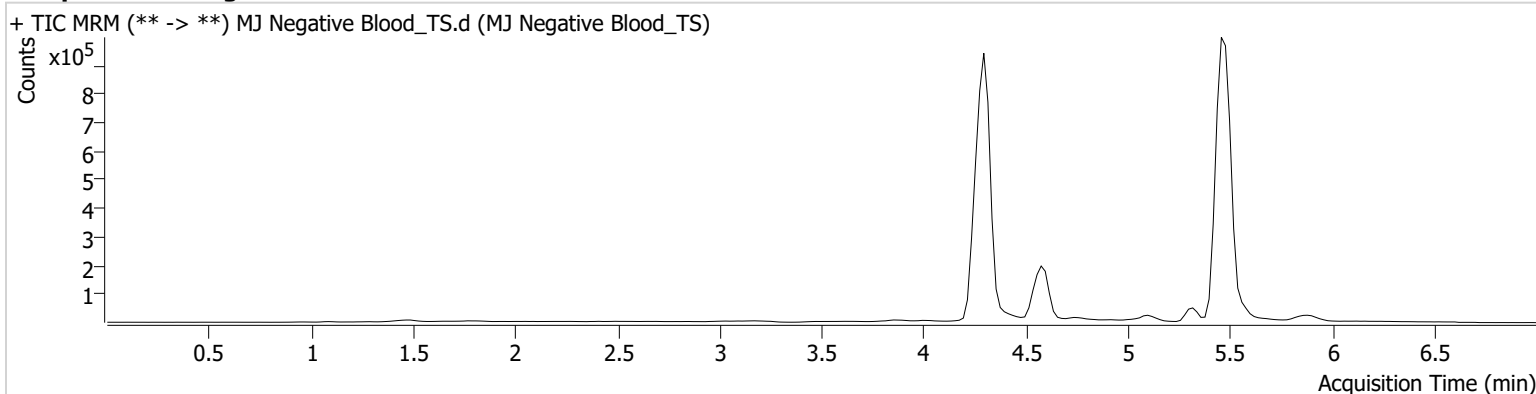
Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Sample
Acq. Method AM 26 THC.m
Sample Position P5-B2
Injection Volume 10
Acq. Date-Time 9/27/2023 8:37:33 AM
Sample Info.

Data File MJ Negative Blood_TS.d
Sample MJ Negative Blood_TS
Operator Tamara Salazar
Comment

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Sample Chromatogram



TS



AM #26 Cannabinoids Screen Results

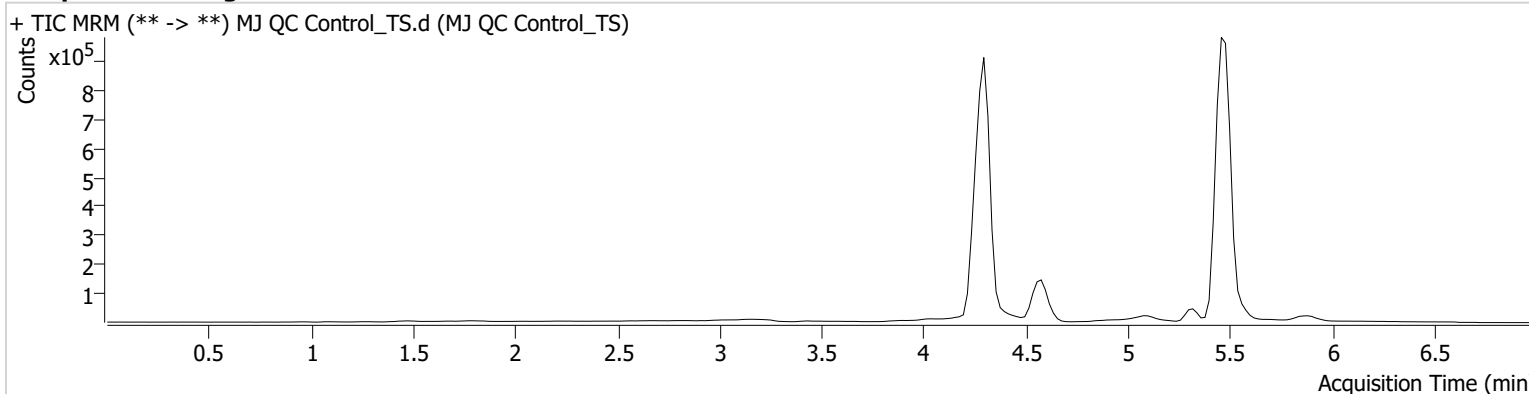
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Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 26 THC.m
Sample Position P5-H1
Injection Volume 10
Acq. Date-Time 9/27/2023 8:22:22 AM
Sample Info.

Data File MJ QC Control_TS.d
Sample MJ QC Control_TS
Operator Tamara Salazar
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.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	13924	24.07	115.1	46.60	374010	4.7067 ng/ml
THC-COOH	4.596	78356	∞	172.1	∞	571994	12.7384 ng/ml
THC-OH	4.302	46072	∞	796.3	∞	4167012	4.6447 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 μ L of 1mg/mL THC in 9990 μ L MeOH

Approximate concentration 1ug/mL.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
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

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

TS



AM #26 Cannabinoids Screen Results

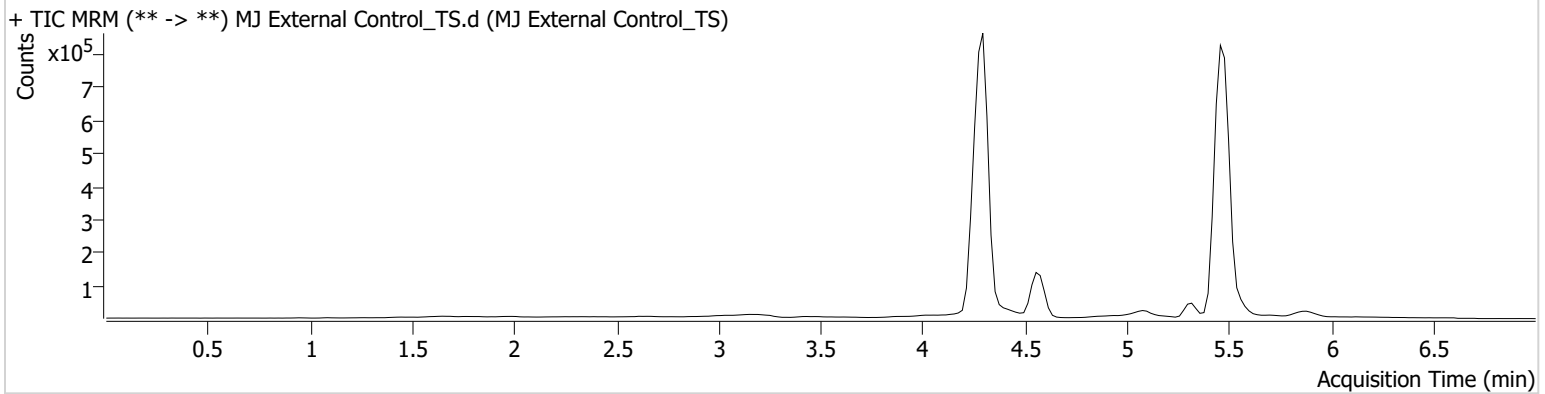
Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Sample
Acq. Method AM 26 THC.m
Sample Position P5-C2
Injection Volume 10
Acq. Date-Time 9/27/2023 8:45:06 AM
Sample Info.

Data File MJ External Control_TS.d
Sample MJ External Control_TS
Operator Tamara Salazar
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



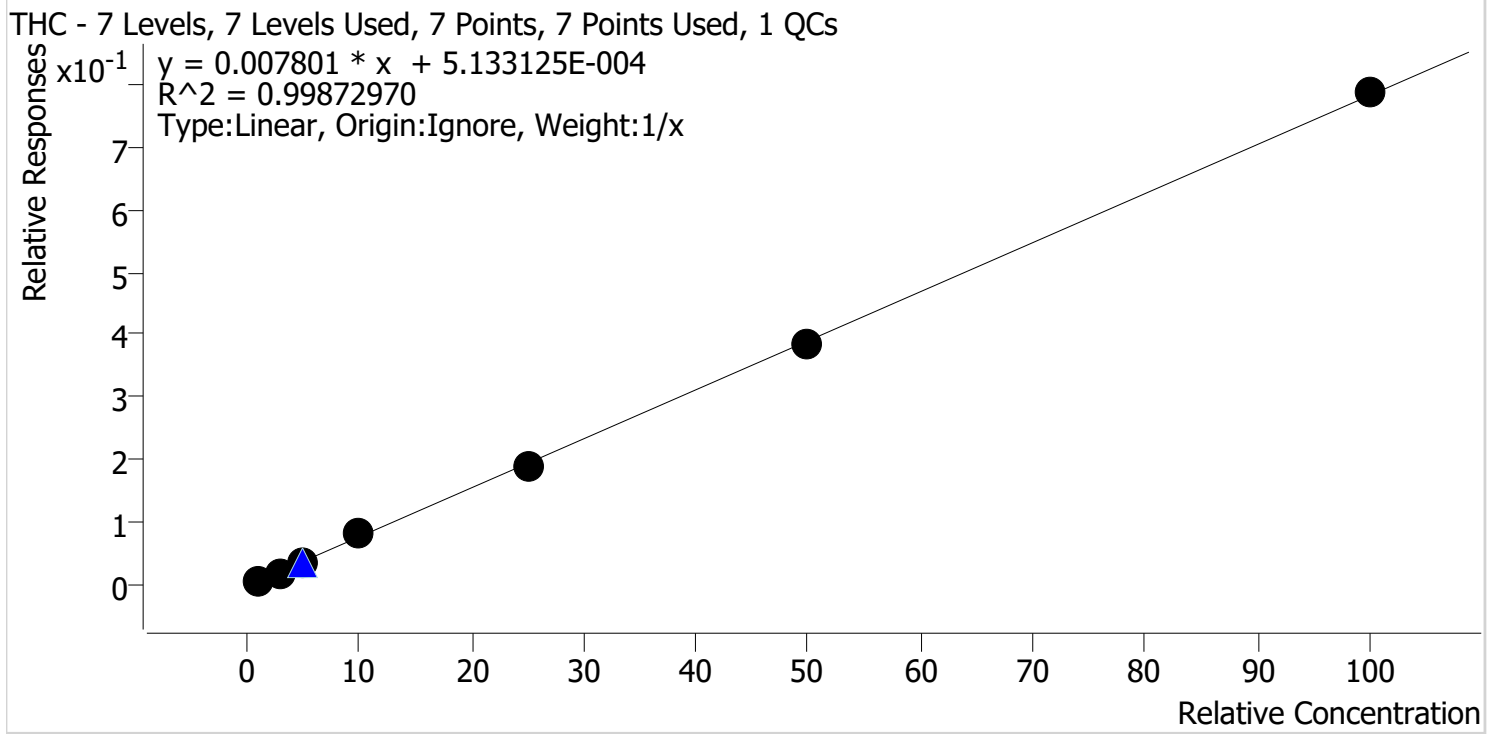
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	118520	∞	32.5 Low	∞	347636	43.6382 ng/ml

TS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Last Cal. Update 10/4/2023 3:57 PM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-D3



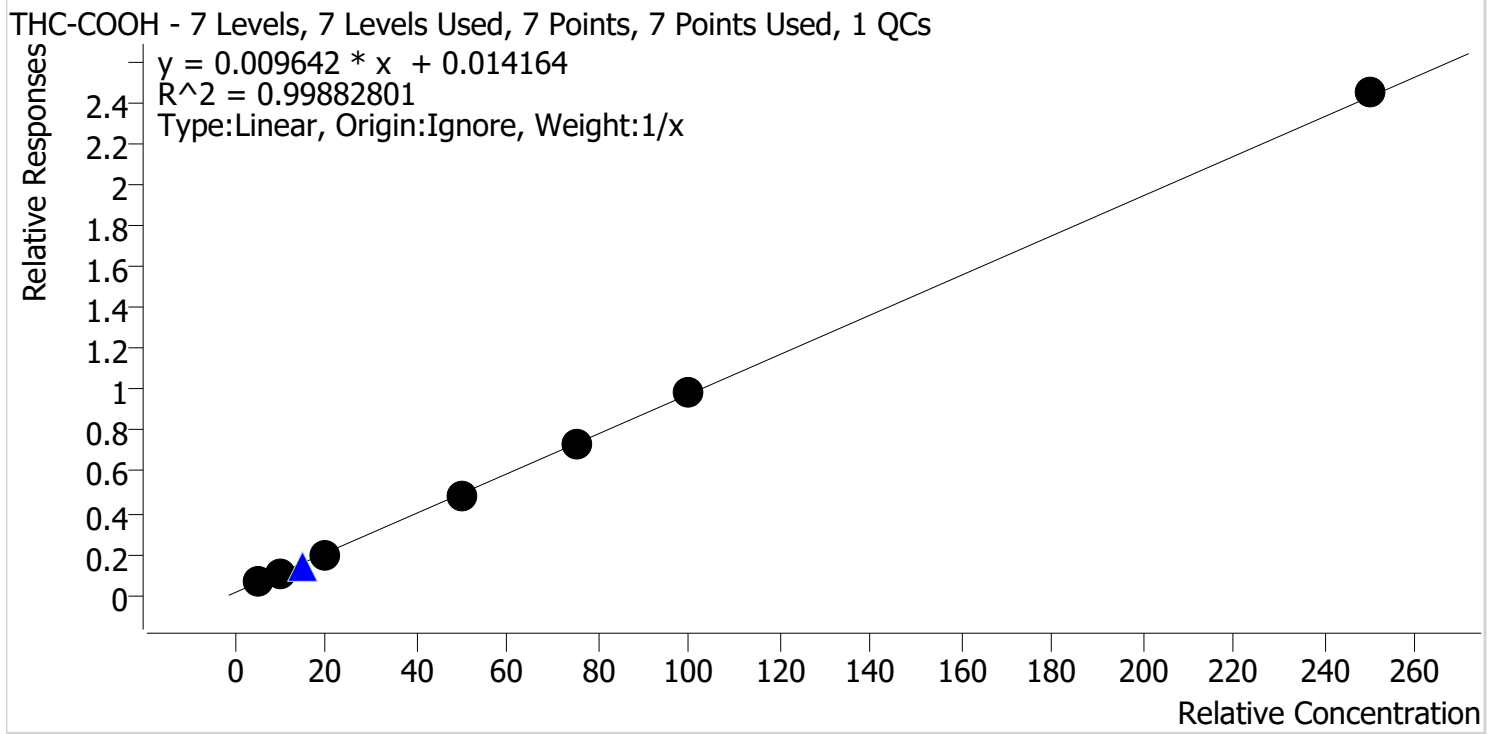
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1_TS	1	✓	1.0	1.1	107.5
MJ Cal 2_TS	2	✓	3.0	2.8	93.6
MJ Cal 3_TS	3	✓	5.0	4.5	90.1
MJ Cal 4_TS	4	✓	10.0	11.1	111.2
MJ Cal 5_TS	5	✓	25.0	24.6	98.3
MJ Cal 6_TS	6	✓	50.0	49.4	98.7
MJ Cal 7_TS	7	✓	100.0	100.5	100.5

TS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Last Cal. Update 10/4/2023 3:57 PM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1_TS	1	✓	5.0	5.9	118.3
MJ Cal 2_TS	2	✓	10.0	9.1	91.0
MJ Cal 3_TS	3	✓	20.0	18.3	91.6
MJ Cal 4_TS	4	✓	50.0	48.7	97.5
MJ Cal 5_TS	5	✓	75.0	74.7	99.7
MJ Cal 6_TS	6	✓	100.0	101.1	101.1
MJ Cal 7_TS	7	✓	250.0	252.1	100.8

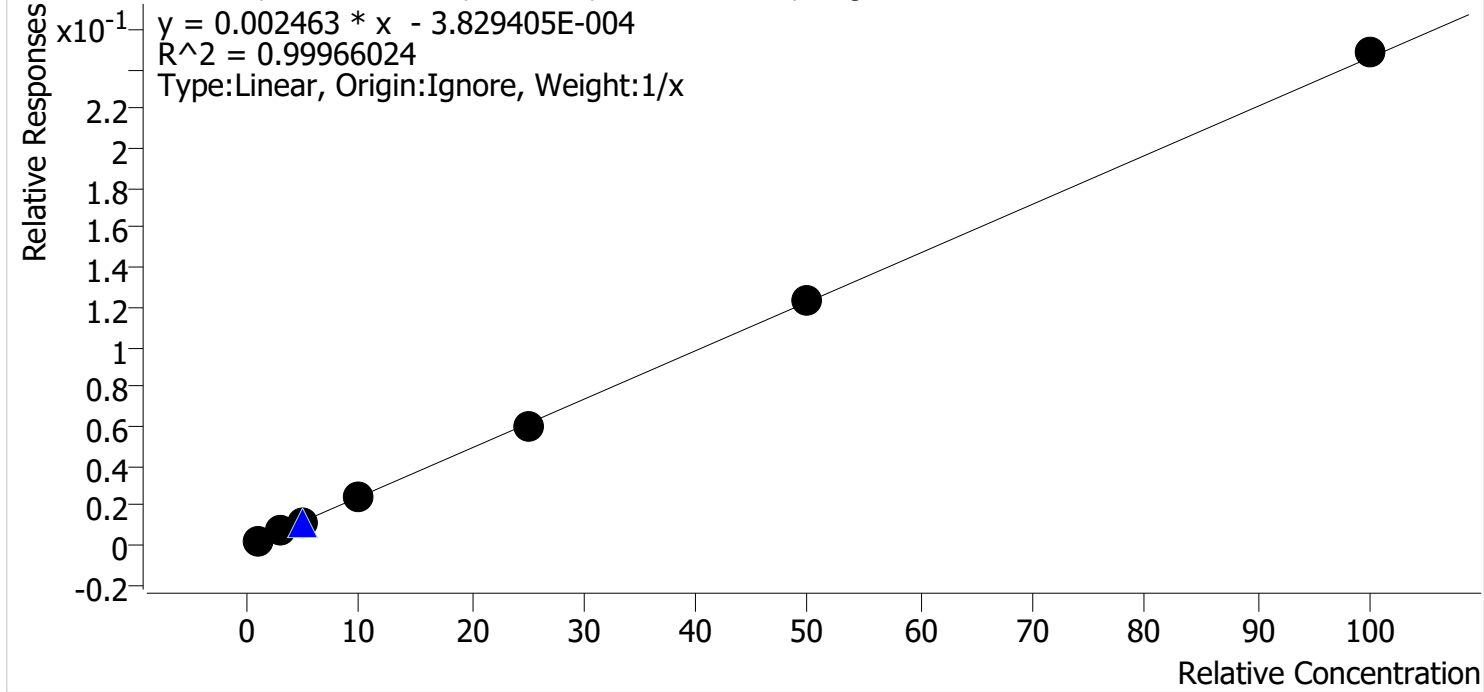
TS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Last Cal. Update 10/4/2023 3:57 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, 1 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1_TS	1	✓	1.0	1.0	103.4
MJ Cal 2_TS	2	✓	3.0	3.0	100.7
MJ Cal 3_TS	3	✓	5.0	5.1	101.5
MJ Cal 4_TS	4	✓	10.0	9.7	96.9
MJ Cal 5_TS	5	✓	25.0	24.1	96.3
MJ Cal 6_TS	6	✓	50.0	50.1	100.2
MJ Cal 7_TS	7	✓	100.0	101.0	101.0

TS



AM #26 Cannabinoids Screen Results

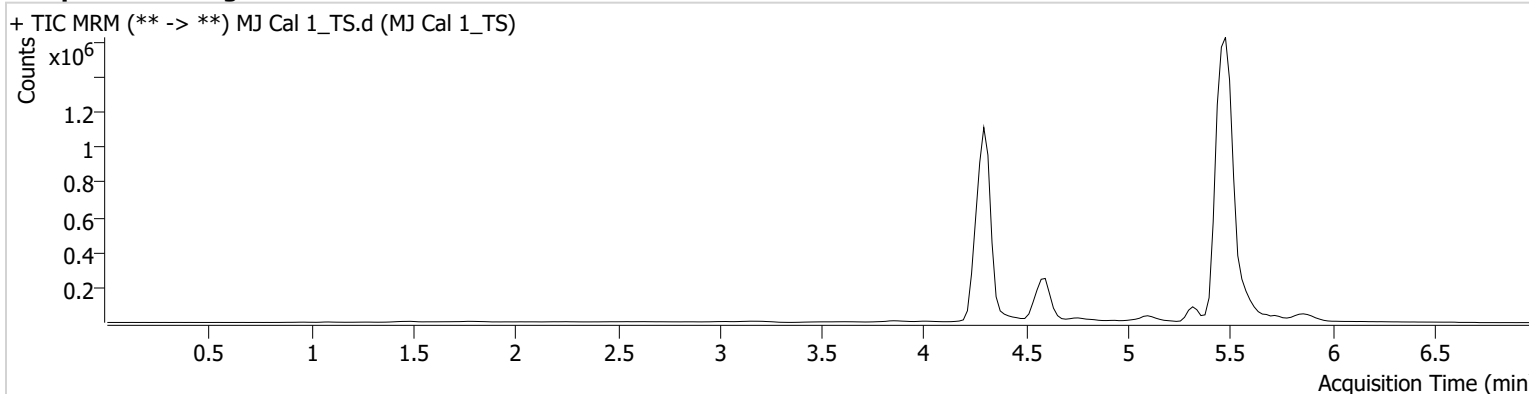
Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P5-A1
Injection Volume 10
Acq. Date-Time 9/27/2023 7:29:04 AM
Sample Info.

Data File MJ Cal 1_TS.d
Sample MJ Cal 1_TS
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.510	6429	∞	377.8 High	∞	722372	1.0750 ng/ml
THC-COOH	4.616	77446	∞	170.1	∞	1087422	5.9175 ng/ml
THC-OH	4.302	11583	∞	1031.4 High	∞	5356056	1.0336 ng/ml

TS



AM #26 Cannabinoids Screen Results

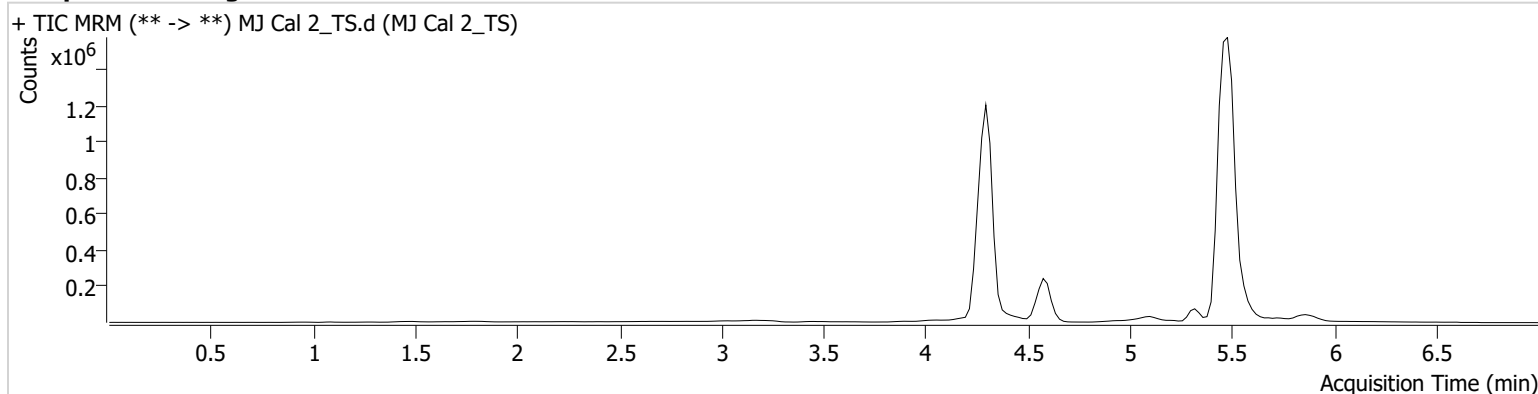
Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P5-B1
Injection Volume 10
Acq. Date-Time 9/27/2023 7:36:57 AM
Sample Info.

Data File MJ Cal 2_TS.d
Sample MJ Cal 2_TS
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.510	14550	28.33	188.7 High	∞	648942	2.8084 ng/ml
THC-COOH	4.596	91761	226.87	154.4	∞	900470	9.0997 ng/ml
THC-OH	4.302	38726	∞	848.8	9.51 Low	5485321	3.0220 ng/ml

TS



AM #26 Cannabinoids Screen Results

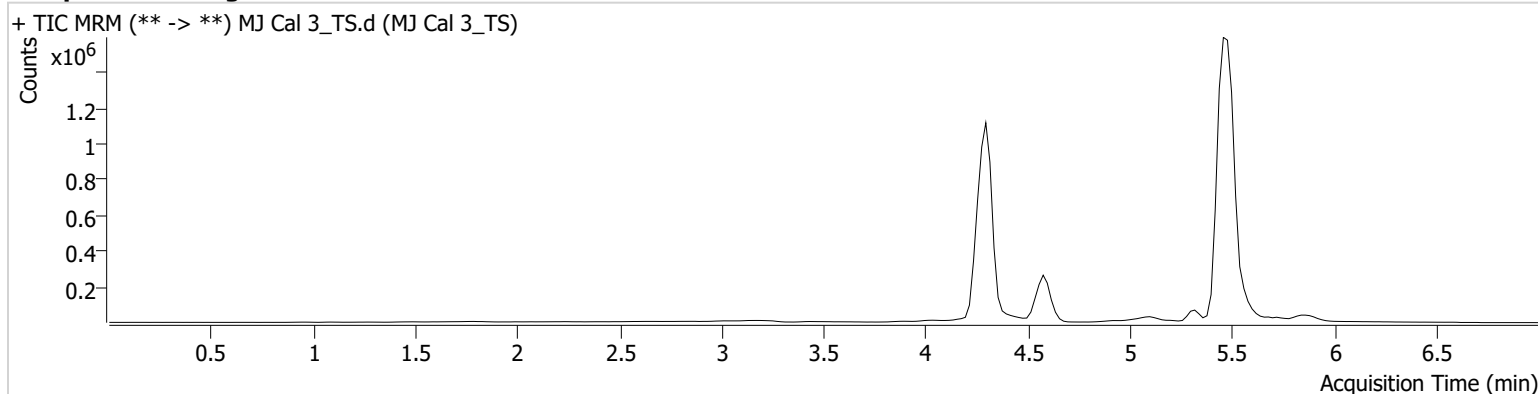
Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P5-C1
Injection Volume 10
Acq. Date-Time 9/27/2023 7:44:31 AM
Sample Info.

Data File MJ Cal 3_TS.d
Sample MJ Cal 3_TS
Operator Tamara Salazar
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.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	24233	∞	123.1	∞	679654	4.5047 ng/ml
THC-COOH	4.596	164941	∞	164.1	∞	864699	18.3143 ng/ml
THC-OH	4.302	61564	∞	770.7	30.20	5081644	5.0746 ng/ml

TS



AM #26 Cannabinoids Screen Results

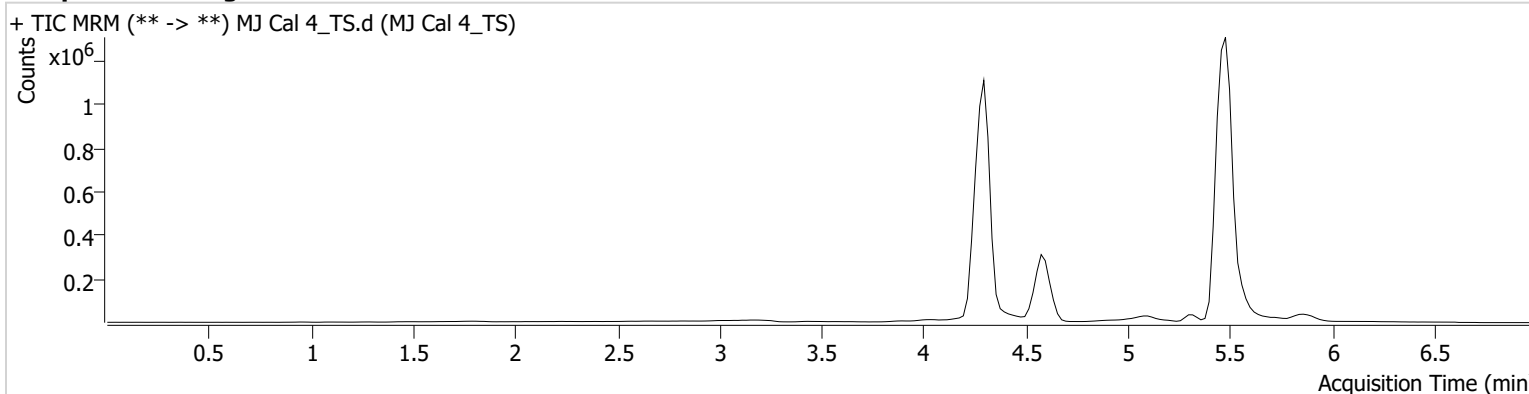
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Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P5-D1
Injection Volume 10
Acq. Date-Time 9/27/2023 7:52:06 AM
Sample Info.

Data File MJ Cal 4_TS.d
Sample MJ Cal 4_TS
Operator Tamara Salazar
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.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.489	43028	96.78	68.9 Low	∞	493131	11.1193 ng/ml
THC-COOH	4.596	348999	1568.99	160.0	∞	720889	48.7411 ng/ml
THC-OH	4.302	109276	∞	755.3	∞	4653086	9.6910 ng/ml

TS



AM #26 Cannabinoids Screen Results

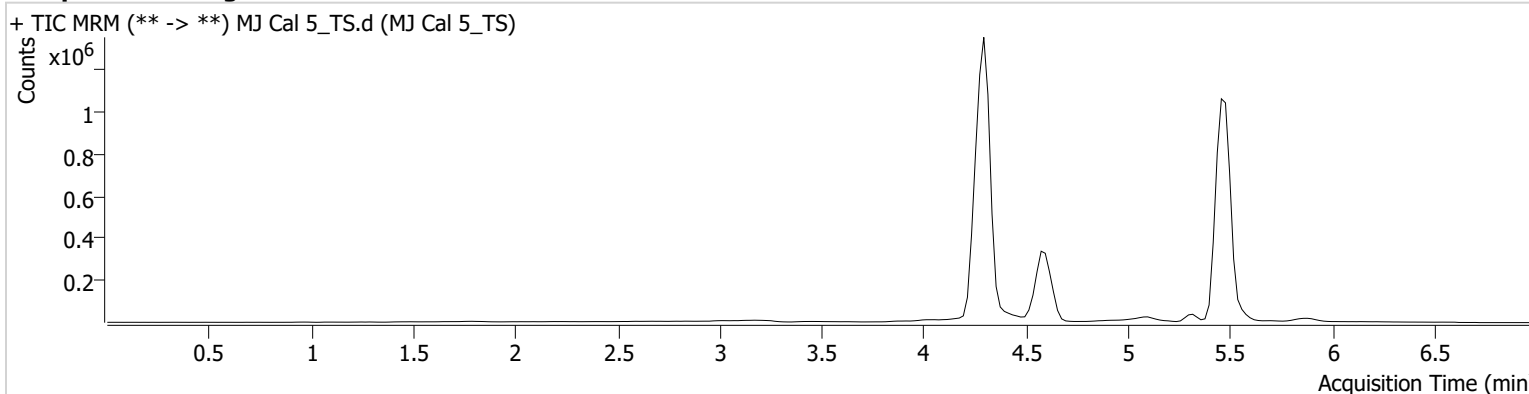
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Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P5-E1
Injection Volume 10
Acq. Date-Time 9/27/2023 7:59:40 AM
Sample Info.

Data File MJ Cal 5_TS.d
Sample MJ Cal 5_TS
Operator Tamara Salazar
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.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	75869	133.11	42.0 Low	∞	394666	24.5769 ng/ml
THC-COOH	4.596	472599	∞	151.5	639.97	643161	74.7403 ng/ml
THC-OH	4.302	265224	∞	749.6	∞	4501091	24.0805 ng/ml

TS

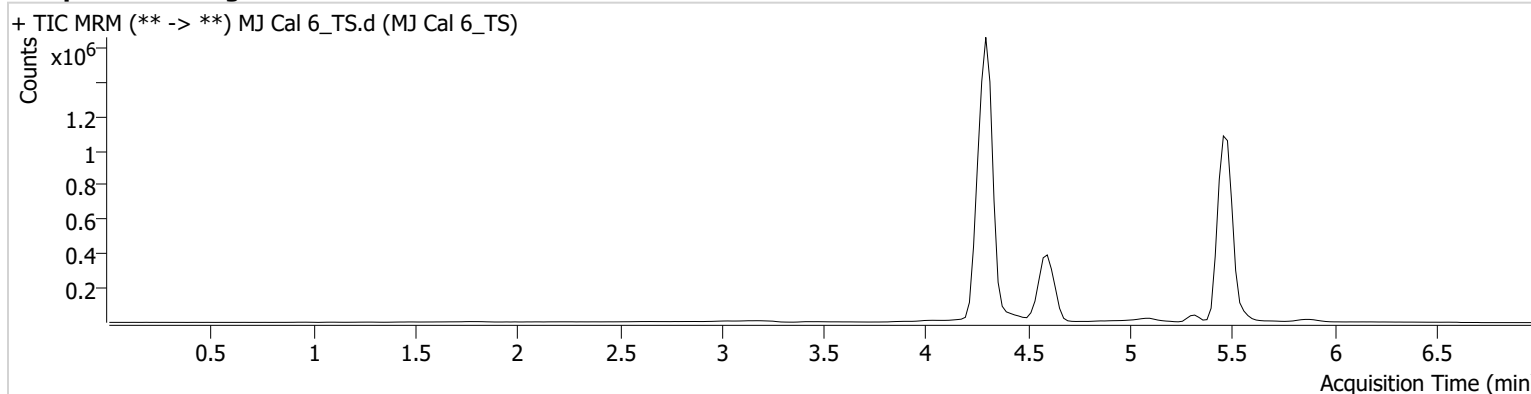


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2023\AM 25 26\092623 AM 25 26 CS TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 10/4/2023 3:57:15 PM

Instrument	Falco (069901)	Data File	MJ Cal 6_TS.d
Type	Cal	Sample	MJ Cal 6_TS
Acq. Method	AM 26 THC.m	Operator	Tamara Salazar
Sample Position	P5-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	9/27/2023 8:07:14 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	142586	2100.05	33.4 Low	∞	369711	49.3731 ng/ml
THC-COOH	4.596	598968	∞	154.7	∞	605544	101.1182 ng/ml
THC-OH	4.302	503731	∞	735.1	∞	4096246	50.0865 ng/ml

TS



AM #26 Cannabinoids Screen Results

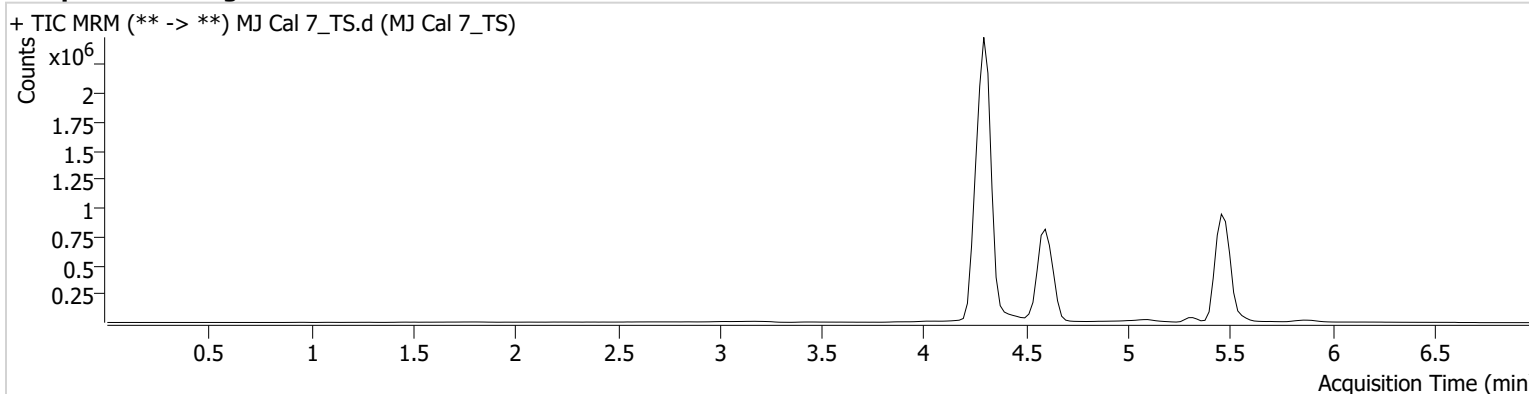
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Calibration Last Update 10/4/2023 3:57:15 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 26 THC.m
Sample Position P5-G1
Injection Volume 10
Acq. Date-Time 9/27/2023 8:14:49 AM
Sample Info.

Data File MJ Cal 7_TS.d
Sample MJ Cal 7_TS
Operator Tamara Salazar
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.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.449	256445	5340.42	29.5 Low	∞	326749	100.5425 ng/ml
THC-COOH	4.596	1450503	∞	155.6	295.11	593350	252.0689 ng/ml
THC-OH	4.302	1024014	∞	746.8	∞	4122495	101.0119 ng/ml