REVIEWED
By Celena Shrum at 11:42 am, Jul 13, 2022

TS 6/27/2022

Worklist: 6004

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-1436	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-1945	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-1991	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2016	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2070	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2116	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2306	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2022-2339	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1664	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1685	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1686	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1687	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1690	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1721	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1722	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1724	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1725	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1729	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1745	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1760	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1762	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

TS

Worklist: 6004

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2022-1763	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1764	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1777	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1778	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1795	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1797	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2022-1800	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

TS

Idaho State Police
Forensic Services

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): TOX-22-01

Date of Request: **2/3/2022**

Requestor/Discipline: Celena Shrum/Toxicology

Analytical Method/Quality Standard, Revision #: AM #25, AM #28, AM #29, Revision 13

Temporary or Permanent Deviation: Permanent

Scope of Deviation (record specific information, e.g. affected programs, evidence types, expected end date; etc): Deviation will remain in place until the change is made in the next method revision.

Deviation Request (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual): 4.1.4 (Place plate on shaking incubator at approximately 900 rpm for approximately 15 minutes) of AM #25, AM # 28, and AM #29 is being removed. The removal of this step was tested in the validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022) and it was determined that that step is not necessary and can be removed.

Technical Justification for Analytical Method Deviations: Refer to validation "Addition of Compounds/Modifications for the MDS" (approved on 2/2/2022)

Technical Review

☒ Departure approved
Comments:

☐ Departure Not Approved
Comments:

Approver: Rachel Cutler Date: 2/10/2022
Title: Laboratory Manager

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 2/10/2022

TS

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

Extraction Date: 06/30/2022
Plate lot#: 211015
Mobile phase A: 10mM Amm Form
Blank Blood Lot: Lampire 20L20723
LCMS-QQQ ID: 069901

Analyst: Tamara Salazar
Plate Retest Date: 04/15/2022—ok with external control
Mobile phase B: 0.1% Formic Acid in MeOH
Blank Urine Lot: N/A
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: *300µL*
☒ 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:

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	P2022-1797-1	P2022-1745-1	P2022-1686-1	M2022-1991-1
B	IS + Cal. 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2022-1795-1	P2022-1729-1	P2022-1685-1	M2022-1945-1
C	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2022-1778-1	P2022-1725-1	P2022-1664-1	M2022-1436-1
D	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2022-1777-1	P2022-1724-1	M2022-2339-4	P2022-1426-1
E	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2022-1764-1	P2022-1722-1	M2022-2306-2	External Blood Ctrl
F	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2022-1763-1	P2022-1721-1	M2022-2116-1	Neg Blood
G	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2022-1762-1	P2022-1690-1	M2022-2070-1	IS + Cal. 1
H	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2022-1800-1	P2022-1760-1	P2022-1687-1	M2022-2016-2	IS + Cal. 1

All wells to contain 60 µl of residual DMSO

TS

Idaho State Police Forensic Services

AM #25 Blood Multi-Drug Screen by LCMS-QQQ And AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 042222)

100 µL of 1mg/mL stock was added ~~to~~ of 04/03/203 each drug to 9600 µL of LC MeOH. TS

Component	*Source*	*Source Lot Number*	*Expiration Date*
Methanol (LCMS)	Fisher	215245	N/A
Tramadol	Cerilliant	FE10051901	12/31/2024
Hydrocodone	Cerilliant	FE04241902	09/30/2024
Alprazolam	Cerilliant	FE06102008	06/30/2025
Buprenorphine	Cerilliant	FE03191903	06/31/2024
Prepared:	04/22/2022		
Expires:	04/22/2023		
Prepared By:	Celena Shrum		

Blood External Control Solution (Lot: WS042222)

200 µL of methanol external control solution was added to 9800 µL of blood. Approximately 200 ng/mL of each compound.

Component	*Source*	*Source Lot Number*
Negative Blood	Lampire	22B52016-2
Methanol External Control Solution		042222
Prepared:	04/22/2022	
Expires:	04/22/2023	
Prepared by:	Celena Shrum	

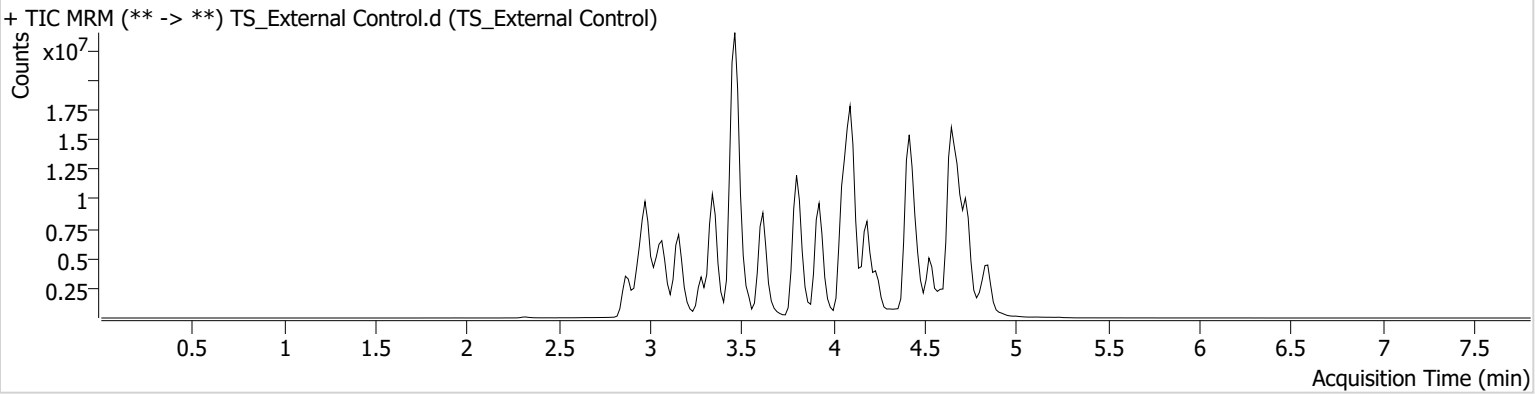
TS

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 25_TS.batch.bin
Calibration Last Update 7/12/2022 7:28:46 AM

Instrument	Falco (069901)	**Data File**	TS_External Control.d
Type	Sample	**Sample**	TS_External Control
Acq. Method	AM 25 MDS.m	**Operator**	Tamara Salazar
Sample Position	P4-E12	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/30/2022 8:25:58 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.651	20560445	730.58	2513.70	24506400	80.5693
Buprenorphine	4.842	9438618	532099.08	575639.09	4418209	89.8548
Hydrocodone	3.067	10769002	1136.47	4804837.60	9114699	72.5024
Tramadol	3.469	87379926	∞	252.86	45896523	44.6876

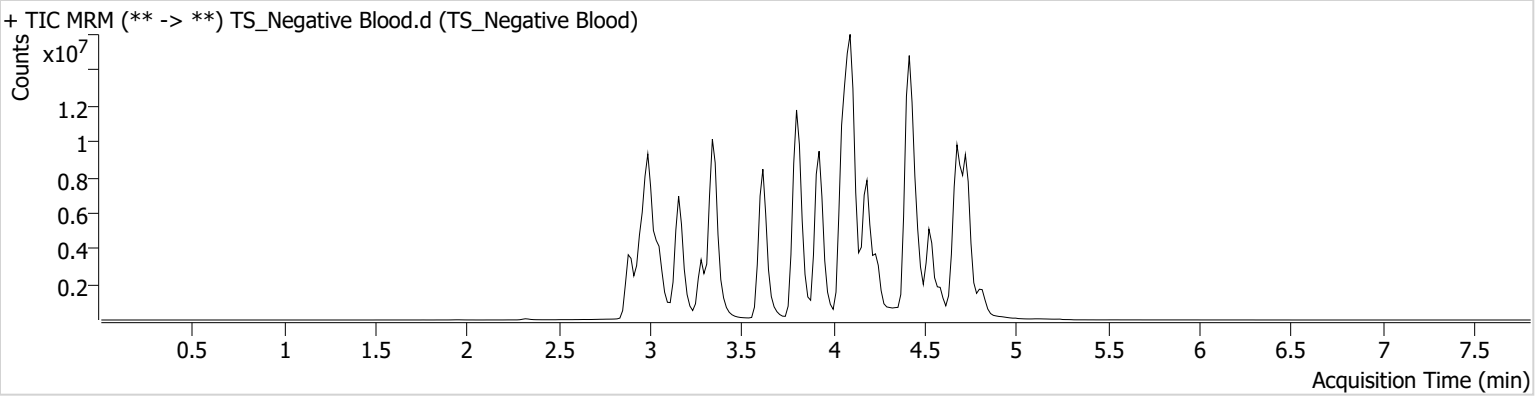
TS

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 25_TS.batch.bin
Calibration Last Update	7/12/2022 7:28:46 AM

Instrument	Falco (069901)	**Data File**	TS_Negative Blood.d
Type	Sample	**Sample**	TS_Negative Blood
Acq. Method	AM 25 MDS.m	**Operator**	Tamara Salazar
Sample Position	P4-F12	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/30/2022 8:17:34 PM		
Sample Info.			

Sample Chromatogram



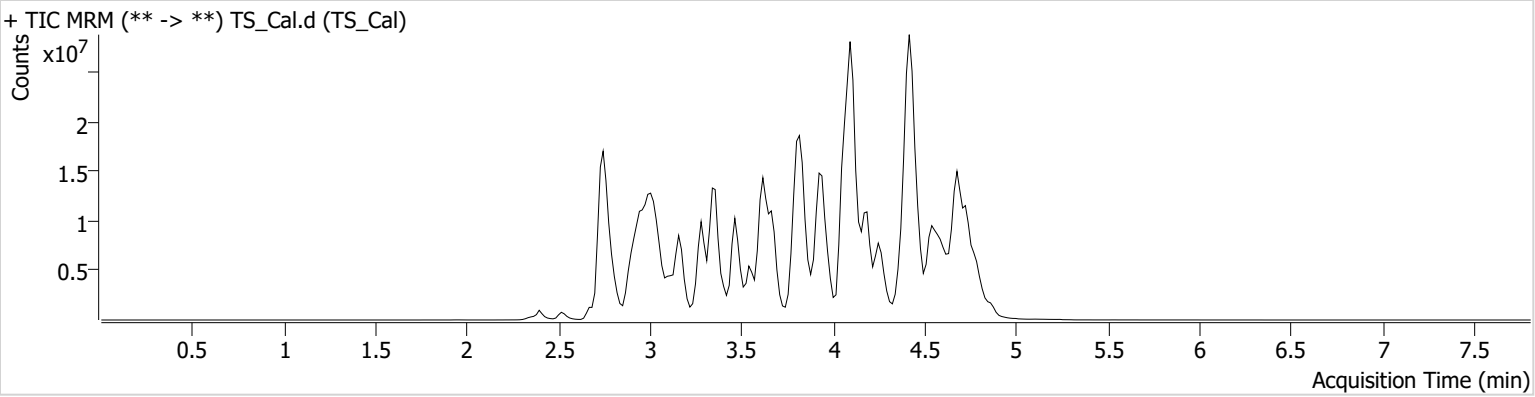
TS

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 25_TS.batch.bin
Calibration Last Update 7/12/2022 7:28:46 AM

Instrument	Falco (069901)	**Data File**	TS_Cal.d
Type	Cal	**Sample**	TS_Cal
Acq. Method	AM 25 MDS.m	**Operator**	Tamara Salazar
Sample Position	P4-G12	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/30/2022 8:08:52 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.793	3213410	115.19	460.29	21762202	10.0000
6-MAM	2.972	51738	25461.44	29572.22	1453254	10.0000
7-aminoclonazepam	3.605	1250885	912651.72	221.35	5346299	10.0000
7-aminoflunitrazepam	3.820	2373971	781.70	216.74	5346299	10.0000
9-Hydroxyrisperidone	3.936	8570665	∞	126868.10	32990996	10.0000
Acetyl Fentanyl	3.971	433626	432.79	179650.29	34704010	10.0000
Acetyl Norfentanyl	2.934	408476	603747.80	785.85	34704010	10.0000
a-hydroxyalprazolam	4.541	337097	61.28	1435.80	5346299	10.0000
alpha-hydroxymidazolam	4.616	2489882	165.18	427.11	5346299	10.0000
Alpha-PHP	3.886	3780515	1892.61	1801.36	34704010	10.0000
alpha-PVP	3.610	4520150	380.96	617.50	13117450	10.0000
Alprazolam	4.636	2490605	730.02	459.91	23917814	10.0000
Amitriptyline	4.470	1830873	283.84	352.68	6914285	10.0000
Amphetamine	2.923	4399067	1174.38	865.68	13117450	10.0000
Benzoylecgonine	3.421	233995	496997.58	706.84	470512	10.0000
Brompheniramine	4.064	112334	2461.94	570308.58	45984238	10.0000
Buprenorphine	4.842	1072067	628658.87	131554.26	4509217	10.0000
Bupropion	3.840	5411256	7439.49	917.79	20600597	10.0000
Carbamazepine	4.257	9786621	1033.55	824.90	878427	10.0000
Carisoprodol	4.256	1311986	641.25	188.93	7710519	10.0000
Chlordiazepoxide	4.760	776410	141.59	1178.24	23917814	10.0000
Chlorpheniramine	3.976	7856335	7495.82	25.22	45984238	10.0000
Chlorpromazine	4.665	1723503	881398.92	10440.21	8028700	10.0000
Citalopram	4.094	3275638	870.46	281.16	45984238	10.0000
Clomipramine	4.665	2465381	346790.79	1006729.39	45984238	10.0000
Clonazepam	4.480	1670301	440.75	696.15	23917814	10.0000
Clonazolam	4.400	1420833	1154101.52	246031.90	23917814	10.0000
Clozapine	4.417	4279621	96559.81	541.00	17298744	10.0000
Cocaethylene	3.833	5145212	3137293.96	2078389.46	24936719	10.0000
Cocaine	3.619	4142521	3548502.46	734977.97	24936719	10.0000
Codeine	2.884	383541	7640.91	921.27	10055702	10.0000
Cyclobenzaprine	4.393	2640836	263.40	74.04	6914285	10.0000
Desipramine	4.410	4460078	754.84	476.14	6914285	10.0000
Dextromethorphan	4.101	2069761	15208.58	413.30	11559750	10.0000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Dextrorphan	3.408	2594767	741.41	520.83	11559750	10.0000
Diazepam	4.868	1328229	416.42	202.63	23917814	10.0000
Dihydrocodeine	2.792	1089848	458.77	499.52	10055702	10.0000
Diphenhydramine	4.071	10731844	150994.45	1524.66	45984238	10.0000
Doxepin	4.192	2520531	175.16	116.06	28076285	10.0000
Doxylamine	3.668	11023975	3448.06	23989.98	11559750	10.0000
Duloxetine	4.360	63394	39624.76	31454.42	1051956	10.0000
EDDP	4.115	1657547	353.01	150281.51	4051748	10.0000
Estazolam	4.561	6775507	1137.32	697.88	23917814	10.0000
Etizolam	4.662	261124	141604.08	582969.82	23917814	10.0000
Fentanyl	4.185	317904	348.19	132157.81	24431273	10.0000
Flualprazolam	4.509	882287	460313.61	937937.27	23917814	10.0000
Flunitrazepam	4.589	2576192	868.79	2011.76	23917814	10.0000
Fluoxetine	4.359	2691002	8040.14	106.95	3800849	10.0000
Flurazepam	4.276	3128206	466.78	127.51	23917814	10.0000
Hydrocodone	3.083	1638677	∞	328.78	10055702	10.0000
Hydromorphone	2.521	1289868	11339751.22	1549.13	234733	10.0000
Hydroxyzine	4.568	3180393	831.87	19938.75	45984238	10.0000
Imipramine	4.423	5492718	569.00	1777.02	6914285	10.0000
Ketamine	3.656	3572349	1002131.51	101.89	12867143	10.0000
Lamotrigine	3.654	267241	1427.45	3095.62	45984238	10.0000
Levamisole	3.027	2635406	1395.94	670.19	24936719	10.0000
Levetiracetam	2.677	1493761	570.62	2563.06	45984238	10.0000
Lorazepam	4.464	592372	253.34	268.89	23917814	10.0000
Maprotiline	4.470	1254820	106.19	100.26	6914285	10.0000
MDA	3.044	2687514	363.32	398.33	30259110	10.0000
MDEA	3.273	4502795	878.17	334.50	30259110	10.0000
MDMA	3.120	5925435	332.79	394.27	30259110	10.0000
Meperidine	3.655	2287834	367.14	∞	11559750	10.0000
Meprobamate	3.704	878437	624.62	70078.78	7710519	10.0000
Methadone	4.420	5809589	594.46	2925.06	4051748	10.0000
Methamphetamine	3.030	5988776	1909.33	259.51	30259110	10.0000
Methocarbamol	3.609	438259	177.79	1467.99	4051748	10.0000
Methylphenidate	3.548	11994699	5519.21	357.75	23642402	10.0000
Metoprolol	3.468	786159	1103.78	395.97	11559750	10.0000
Midazolam	4.786	705754	335.65	30657.05	23917814	10.0000
Mirtazapine	4.117	3262100	412.50	2328699.43	11559750	10.0000
Mitragynine	4.275	588690	221148.99	740613.26	11559750	10.0000
Morphine	2.354	220448	370.27	484.98	234733	10.0000
Norbuprenorphine	3.859	99400	105206.71	190231.42	4509217	10.0000
Nordiazepam	4.732	1432277	605142.64	245.68	23917814	10.0000
Norfentanyl	3.364	7904072	328.50	169.94	34704010	10.0000
Norhydrocodone	2.962	105520	218.97	30.07	234733	10.0000
Norketamine	3.780	779619	447.11	2083478.83	12867143	10.0000
Normeperidine	3.641	2084641	774.80	169.42	45984238	10.0000
Noroxycodone	2.914	1606242	203.93	448.92	12867143	10.0000
Nortriptyline	4.441	1359242	668.59	276.96	6914285	10.0000
O-desmethyl-tramadol	2.948	8623841	467.42	406.02	45984238	10.0000
O-desmethylvenlafaxine	3.284	1877992	637.16	36064.46	10493636	10.0000
Olanzapine	3.895	522136	264725.39	7980.90	878427	10.0000
Oxazepam	4.546	3026908	862.28	297.70	13550842	10.0000
Oxycodone	2.973	2601483	474.39	587.88	12867143	10.0000
Oxymorphone	2.395	2024847	311.59	120619.31	234733	10.0000
Paroxetine	4.371	442413	305208.20	103680.65	3800849	10.0000
Phenazepam	4.661	2085740	557.17	403870.28	23917814	10.0000
Phencyclidine	3.948	6782256	917.42	380.89	11559750	10.0000
Phentermine	3.183	1609370	2001.16	51.10	23642402	10.0000
Phenytoin	4.164	1332963	688.14	638.36	878427	10.0000
Primidone	3.503	2259707	∞	4466.70	878427	10.0000
Promethazine	4.392	7352388	7698.49	133.25	45984238	10.0000

TS

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Pseudoephedrine	2.754	57989717	1177.37	14407.99	30259110	10.0000
Quetiapine	4.598	5180694	4002217.78	410320.52	38171678	10.0000
Risperidone	4.137	6609215	4077993.12	926.92	32990996	10.0000
Sertraline	4.590	731117	752061.04	1384.08	3800849	10.0000
Sufentanil	4.583	247315	1749.44	44061.16	34704010	10.0000
Tapentadol	3.488	5409662	1106.27	398.91	12867143	10.0000
Temazepam	4.698	4402745	374.64	342.60	23917814	10.0000
Topiramate	3.877	55209	17088.48	11461.14	267056	10.0000
Tramadol	3.469	19590877	∞	166.08	45984238	10.0000
Trazodone	4.767	7150288	322415.28	2489.17	28076285	10.0000
Venlafaxine	3.837	7439461	12800953.74	1931.23	3800849	10.0000
Zaleplon	4.375	3045245	1710447.64	1893356.17	38171678	10.0000
Zolpidem	4.436	8888175	3437.30	17381.19	38171678	10.0000
Zopiclone	4.321	261601	129630.62	100465.85	1191723	10.0000

TS

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

Extraction Date: 06/30/2022
Plate lot#: 220309
Mobile phase A: 10mM Amm Form in LCMS Water
Blank Blood Lot: Lampire 20L20723
LCMS-QQQ ID: 069901

Analyst: Tamara Salazar
Plate Retest Date: 09/09/2022
Mobile phase B: 0.1% Formic acid in MeOH
Blank Urine Lot: N/A
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
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 4. 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.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **700-800µL of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate. Amount transferred*: 800 µL*
☒ 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 **2.25mL MTBE. (*Add in 3 increments of 750uL)***
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 12. Add **2.25mL Hexane. (*Add in 3 increments of 750uL)***
☒ 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. 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: Excess pressure caused samples to spray during step 7. The extraction was halted and restarted from step 1.

Analytical Plate Map

TS

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1	M2022-2306-2	P2022-1722-1	P2022-1764-1	IS + QC_1
B	IS + Cal. 2	Neg Blood	M2022-2339-4	P2022-1724-1	P2022-1777-1	IS + Cal. 7
C	IS + Cal. 3	M2022-1436-1	P2022-1664-1	P2022-1725-1	P2022-1778-1	IS + Cal. 6
D	IS + Cal. 4	M2022-1945-1	P2022-1685-1	P2022-1729-1	P2022-1795-1	IS + Cal. 5
E	IS + Cal. 5	M2022-1991-1	P2022-1686-1	P2022-1745-1	P2022-1797-1	IS + Cal. 4
F	IS + Cal. 6	M2022-2016-2	P2022-1687-1	P2022-1760-1	P2022-1800-1	IS + Cal. 3
G	IS + Cal. 7	M2022-2070-1	P2022-1690-1	P2022-1762-1		IS + Cal. 2
H	IS + QC_1	M2022-2116-1	P2022-1721-1	P2022-1763-1	IS + QC_1	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

SLE Plate Map

TS

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1	M2022-2306-2*	P2022-1722-1	P2022-1764-1	P2022-1685-1
B	IS + Cal. 2	Neg Blood	M2022-2339-4	P2022-1724-1	P2022-1777-1	P2022-1725-1
C	IS + Cal. 3	M2022-1436-1*	P2022-1664-1	P2022-1725-1*	P2022-1778-1	P2022-1745-1
D	IS + Cal. 4	M2022-1945-1	P2022-1685-1*	P2022-1729-1	P2022-1795-1	
E	IS + Cal. 5	M2022-1991-1	P2022-1686-1	P2022-1745-1*	P2022-1797-1	
F	IS + Cal. 6	M2022-2016-2	P2022-1687-1	P2022-1760-1	P2022-1800-1	
G	IS + Cal. 7	M2022-2070-1	P2022-1690-1	P2022-1762-1	M2022-1436-1	
H	IS + QC_1	M2022-2116-1	P2022-1721-1	P2022-1763-1	M2022-2306-2	

**Sample moved on SLE plate, step 6 of the extraction, due to a clot

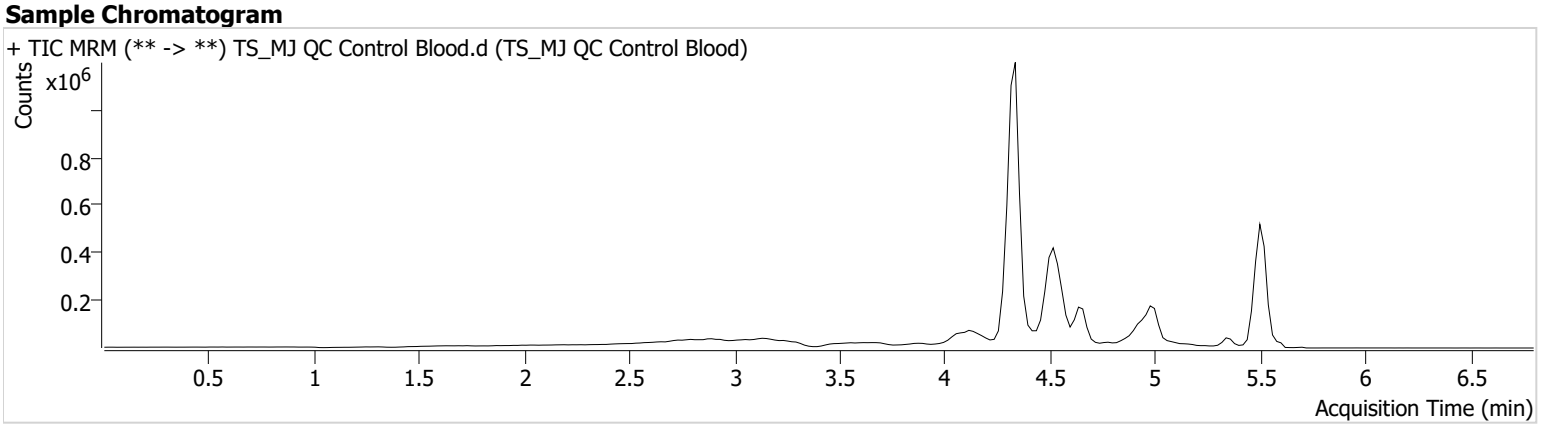
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ QC Control Blood.d
Type	QC	**Sample**	TS_MJ QC Control Blood
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 2:10:28 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.489	10044	295529	4.6177	ng/ml
THC-COOH	4.536	216813	1239892	15.2593	ng/ml
THC-OH	4.342	33621	4305605	4.6090	ng/ml

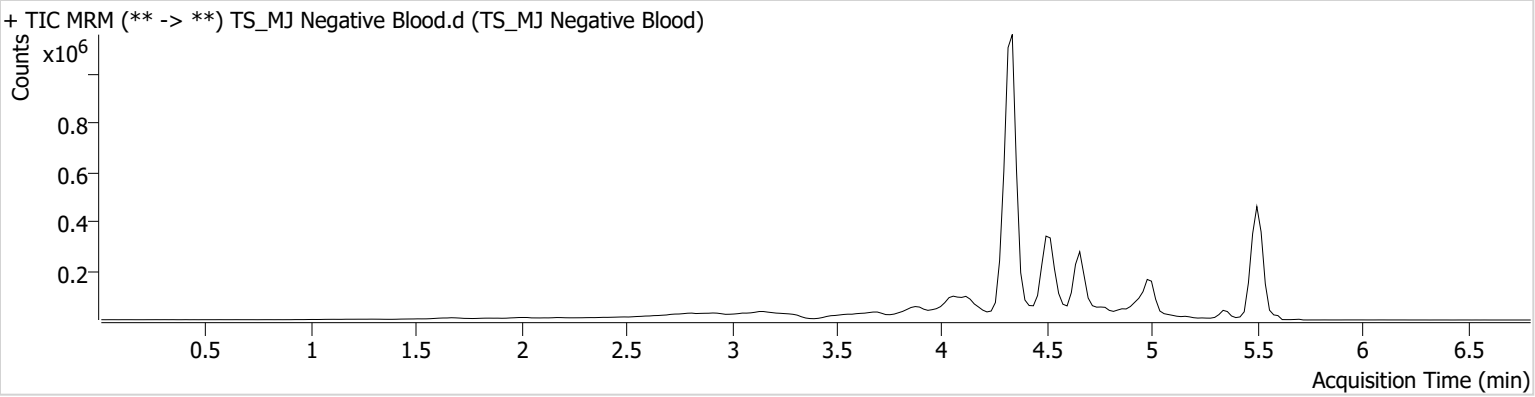
TS

AM #26 Cannabinoids Screen Results

Batch results	G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update	7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Negative Blood.d
Type	Sample	**Sample**	TS_MJ Negative Blood
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-B2	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 2:25:37 AM		
Sample Info.			

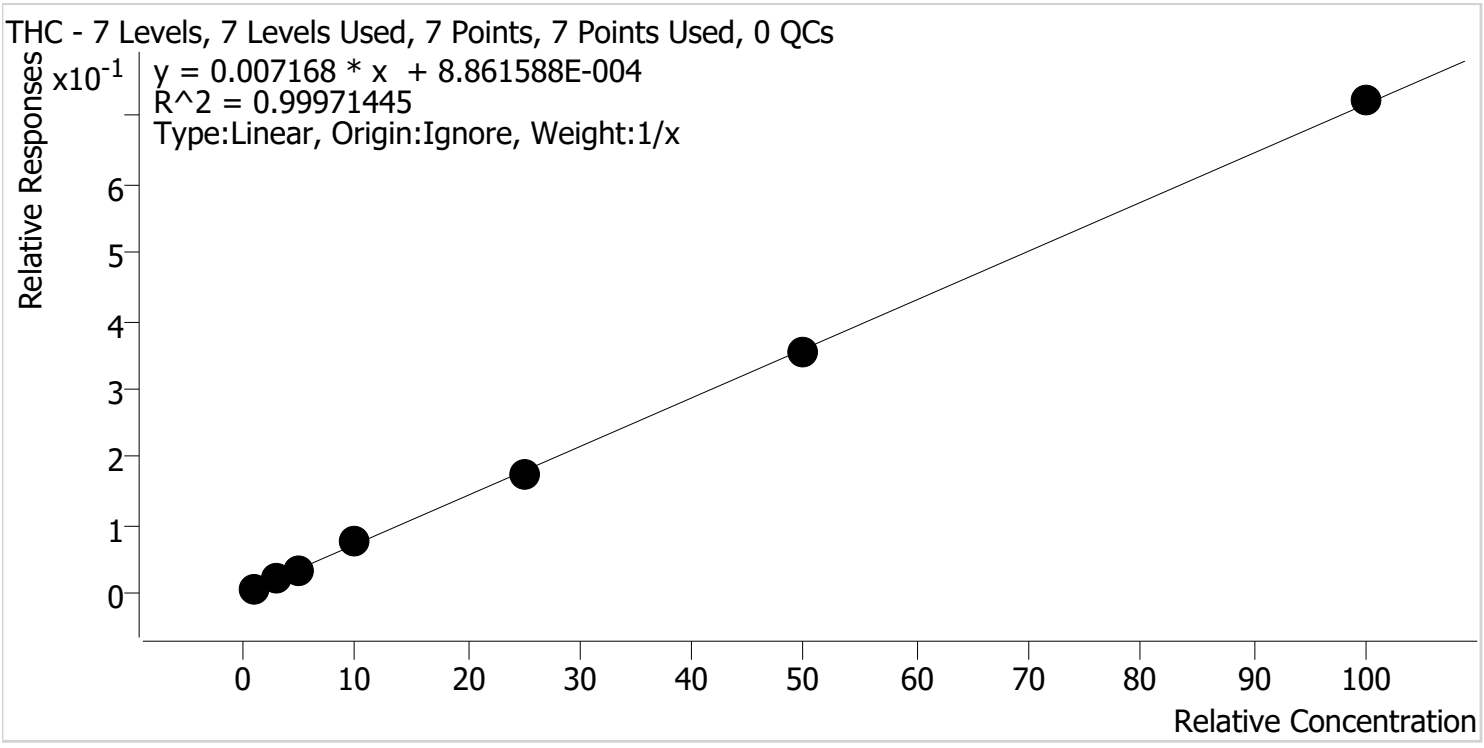
Sample Chromatogram



TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Last Cal. Update	7/1/2022 8:39 AM
Analyst Name	ISP\tsalazar
Analyte	THC
Internal Standard	THC-D3

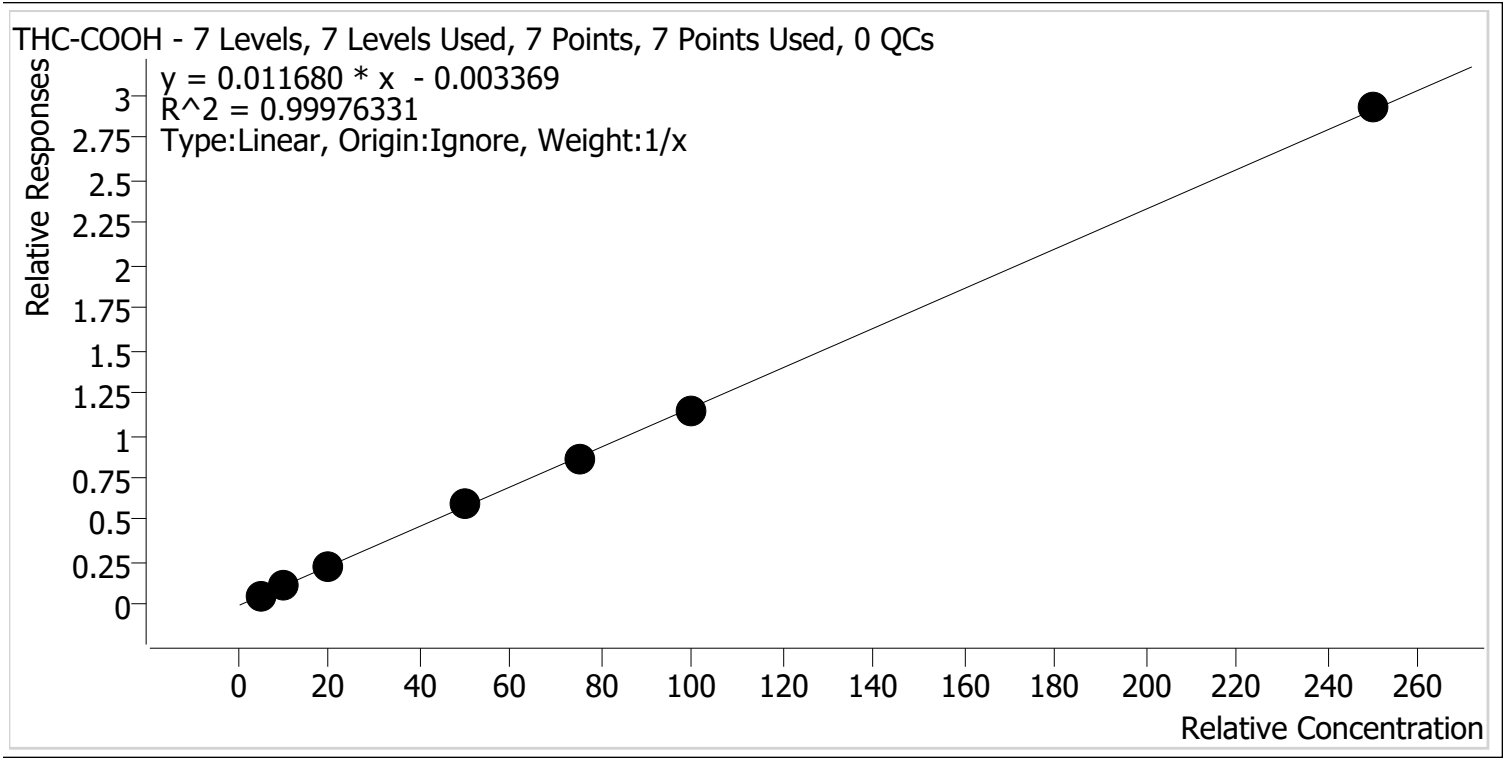


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
TS_MJ Cal 1	1	✔	1.0	1.0	96.1
TS_MJ Cal 2	2	✔	3.0	3.2	105.2
TS_MJ Cal 3	3	✔	5.0	4.9	98.3
TS_MJ Cal 4	4	✔	10.0	10.3	103.2
TS_MJ Cal 5	5	✔	25.0	24.4	97.4
TS_MJ Cal 6	6	✔	50.0	49.6	99.2
TS_MJ Cal 7	7	✔	100.0	100.7	100.7

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Last Cal. Update	7/1/2022 8:39 AM
Analyst Name	ISP\tsalazar
Analyte	THC-COOH
Internal Standard	THC-COOH-D9

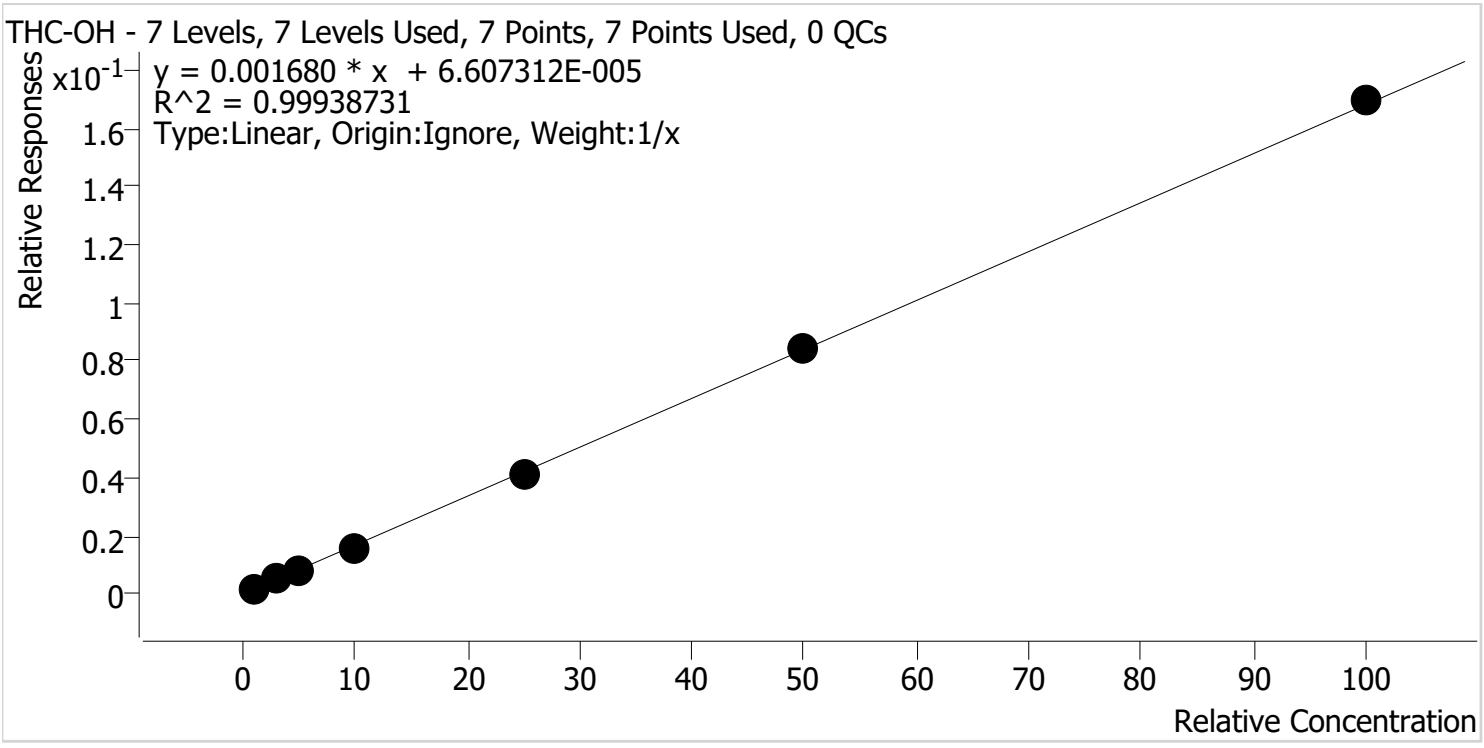


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
TS_MJ Cal 1	1	✔	5.0	5.0	100.3
TS_MJ Cal 2	2	✔	10.0	9.9	99.0
TS_MJ Cal 3	3	✔	20.0	20.0	100.1
TS_MJ Cal 4	4	✔	50.0	51.5	102.9
TS_MJ Cal 5	5	✔	75.0	74.2	99.0
TS_MJ Cal 6	6	✔	100.0	98.2	98.2
TS_MJ Cal 7	7	✔	250.0	251.2	100.5

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Last Cal. Update	7/1/2022 8:39 AM
Analyst Name	ISP\tsalazar
Analyte	THC-OH
Internal Standard	THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
TS_MJ Cal 1	1	✔	1.0	1.1	109.4
TS_MJ Cal 2	2	✔	3.0	3.2	105.2
TS_MJ Cal 3	3	✔	5.0	4.5	90.8
TS_MJ Cal 4	4	✔	10.0	9.4	94.4
TS_MJ Cal 5	5	✔	25.0	24.7	98.9
TS_MJ Cal 6	6	✔	50.0	50.2	100.5
TS_MJ Cal 7	7	✔	100.0	100.8	100.8

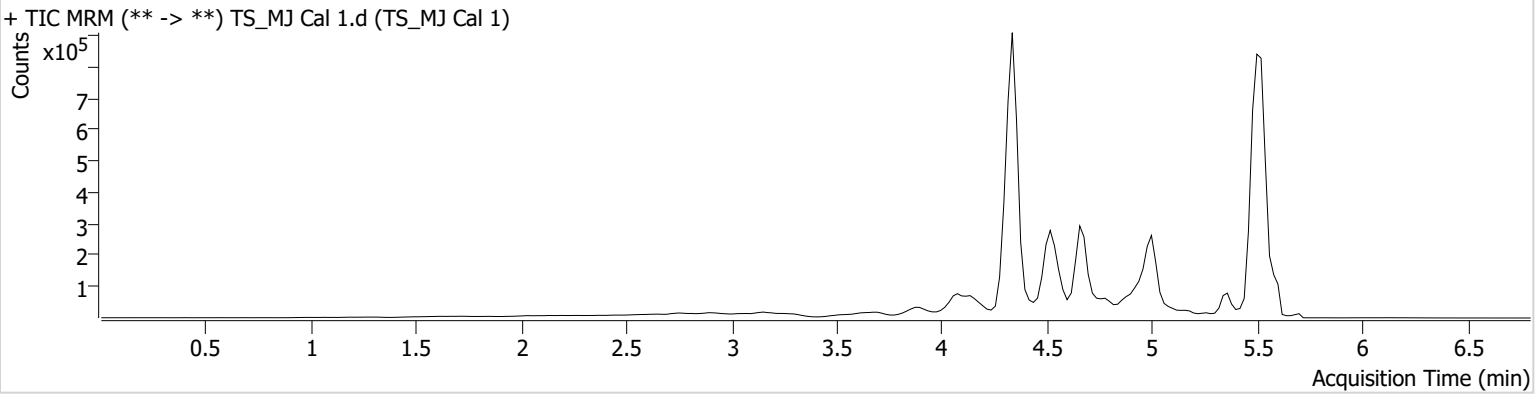
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Cal 1.d
Type	Cal	**Sample**	TS_MJ Cal 1
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 1:17:21 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	5.550	5466	703261	0.9606	ng/ml	Low
THC-COOH	4.556	49846	903226	5.0132	ng/ml	
THC-OH	4.342	6492	3408778	1.0944	ng/ml	Low

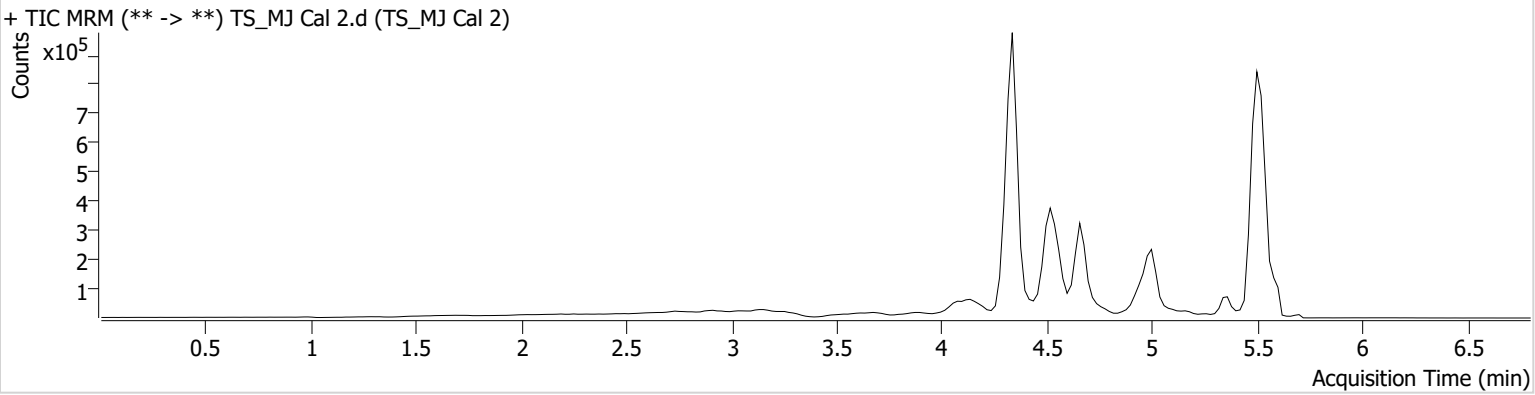
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Cal 2.d
Type	Cal	**Sample**	TS_MJ Cal 2
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 1:25:04 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.550	14517	617787	3.1548	ng/ml
THC-COOH	4.556	129627	1154059	9.9049	ng/ml
THC-OH	4.342	18746	3493507	3.1548	ng/ml

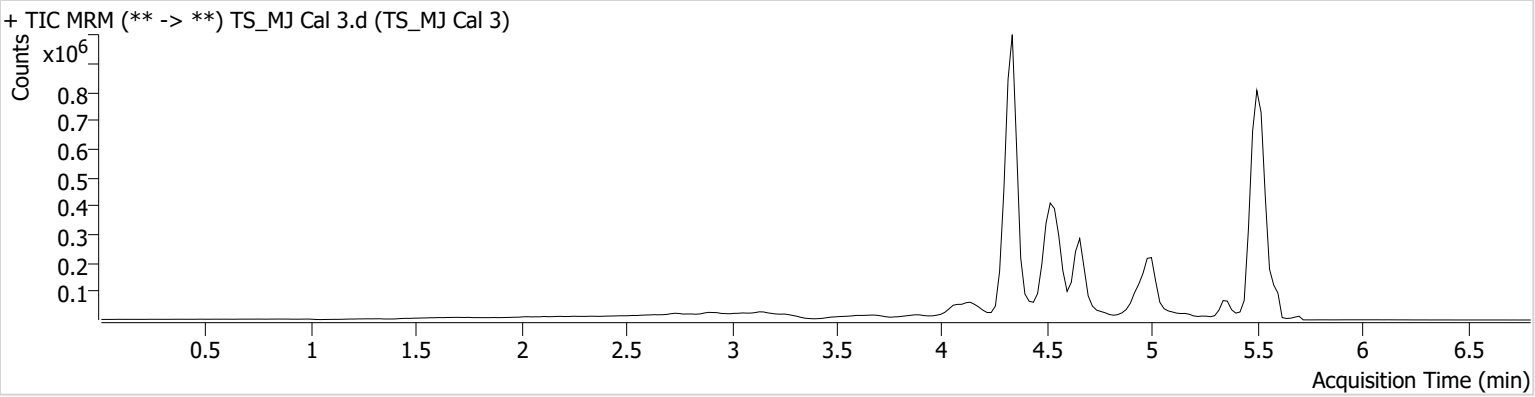
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Cal 3.d
Type	Cal	**Sample**	TS_MJ Cal 3
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 1:32:39 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.530	22629	626856	4.9127	ng/ml
THC-COOH	4.556	264135	1145502	20.0298	ng/ml
THC-OH	4.342	27446	3566058	4.5421	ng/ml

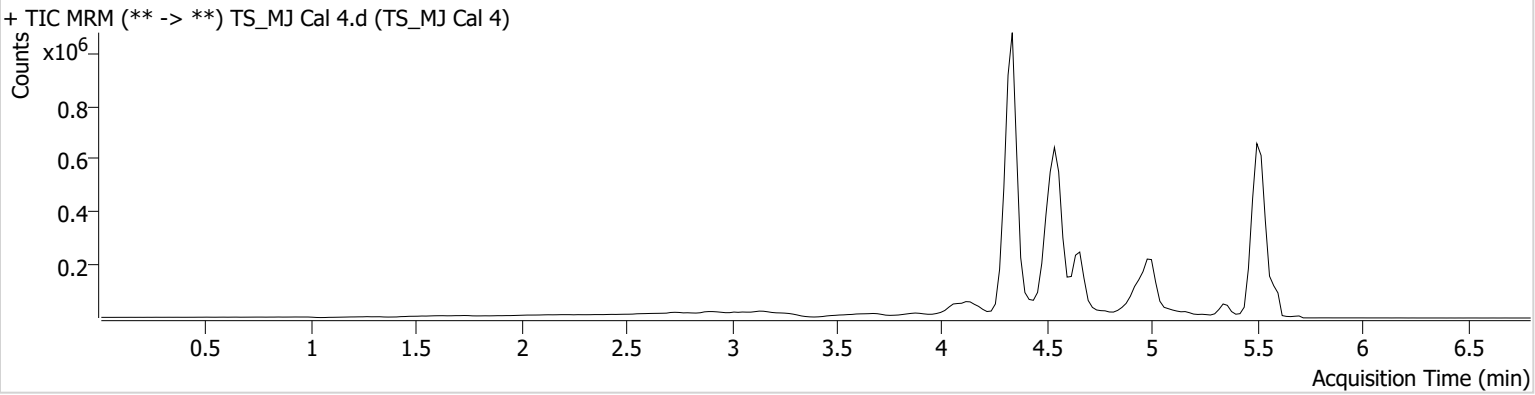
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Cal 4.d
Type	Cal	**Sample**	TS_MJ Cal 4
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 1:40:12 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.530	33752	450691	10.3246	ng/ml
THC-COOH	4.536	675482	1129974	51.4675	ng/ml
THC-OH	4.342	57002	3581138	9.4357	ng/ml

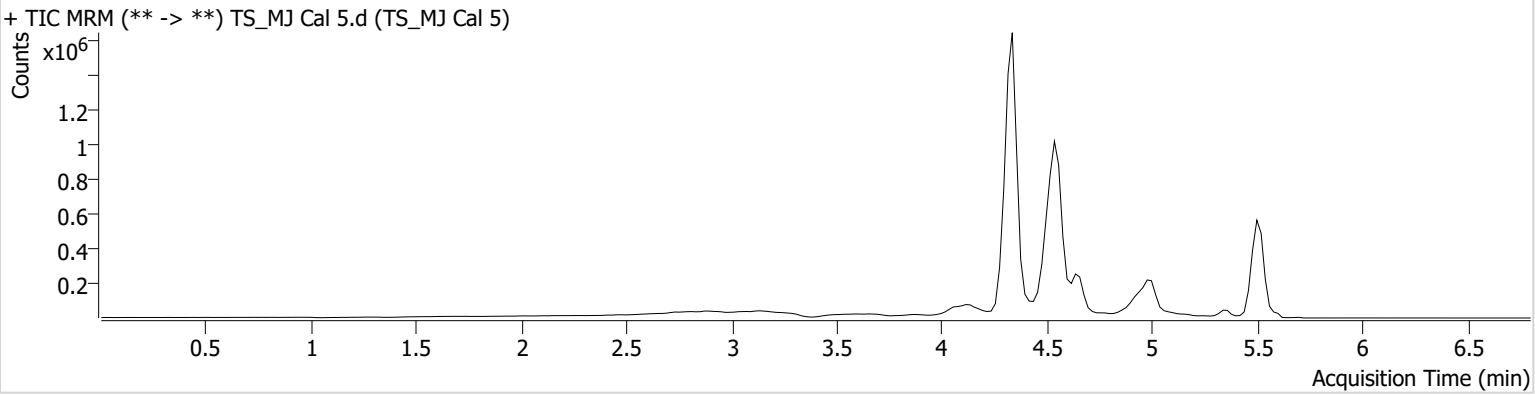
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Cal 5.d
Type	Cal	**Sample**	TS_MJ Cal 5
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 1:47:46 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.530	55535	316576	24.3508	ng/ml
THC-COOH	4.536	1234679	1429906	74.2139	ng/ml
THC-OH	4.342	191170	4595006	24.7262	ng/ml

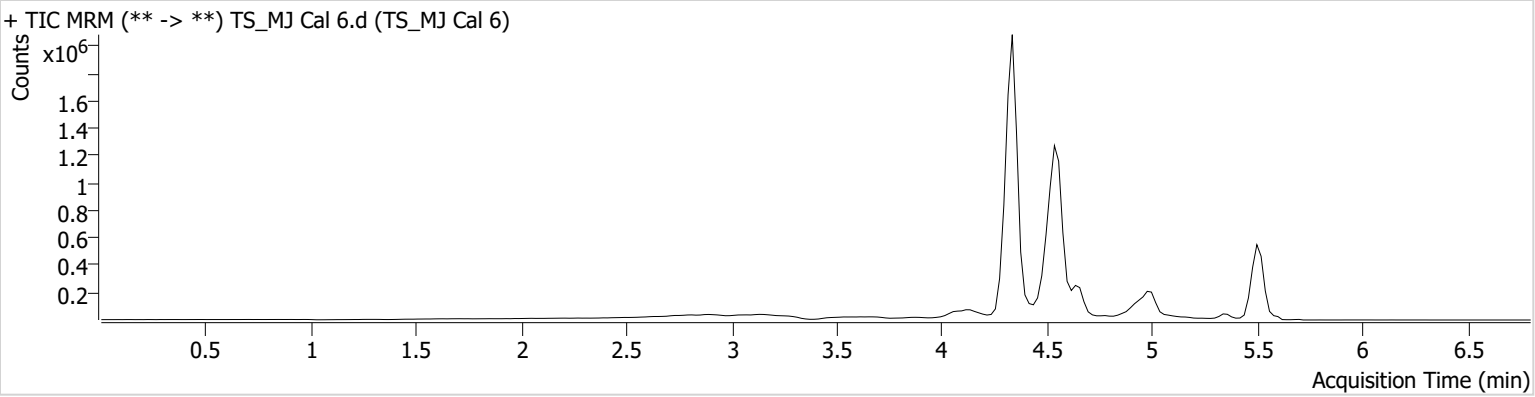
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Cal 6.d
Type	Cal	**Sample**	TS_MJ Cal 6
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 1:55:20 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.509	107564	301941	49.5773	ng/ml
THC-COOH	4.536	1678054	1467749	98.1702	ng/ml
THC-OH	4.342	383407	4538734	50.2457	ng/ml

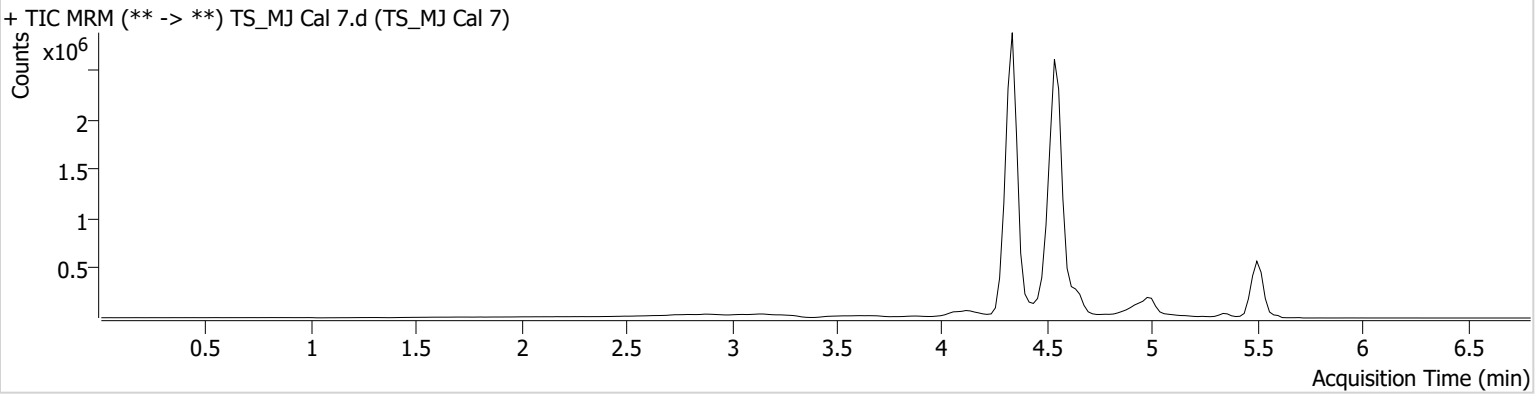
TS

AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2022\AM 25-26\063022 AM 25 SC\QuantResults\AM 26_TS.batch.bin
Calibration Last Update 7/1/2022 8:39:14 AM

Instrument	Falco (069901)	**Data File**	TS_MJ Cal 7.d
Type	Cal	**Sample**	TS_MJ Cal 7
Acq. Method	AM 26 THC.m	**Operator**	Tamara Salazar
Sample Position	P3-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/1/2022 2:02:54 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	5.489	221539	306497	100.7192	ng/ml
THC-COOH	4.536	3796562	1295438	251.2004	ng/ml
THC-OH	4.342	741630	4377906	100.8011	ng/ml