REVIEWED
By Celena Shrum at 12:51 pm, Jul 15, 2020

REVIEWED
By Tamara Salazar at 8:31 am, Jul 16, 2020

7/6/2020

Worklist: 4345

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-1467	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-1620	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-1865	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-1944	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-2054	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-2191	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2020-2345	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1533	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1562	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1570	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1577	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1583	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1584	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1669	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1736	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1772	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1779	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1791	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1806	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1808	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1812	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ

Worklist: 4345

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2020-1824	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1829	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1832	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1932	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2020-1934	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 7/6/20 Analyst: Sarah Pickle
Plate item/lot#: IDP-107-2-200511 Plate Expiration: 11/11/20
Mobile phase A: 10mM Amm Form **Mobile phase B:** 0.1% Formic Acid in MeOH
Instant Buffer I Ethyl Acetate LC Methanol
Blank Blood Lot: 445283-4 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
Blank Urine Lot: POC031319
LCMS-QQQ ID: 069901

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 and urine** (if applicable) into wells of analytical (standards) plate. **Pipette ID: #16**
☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 5. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 7. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: *300 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 **900uL ethyl acetate.**
☒ 11. Wait 5 minutes.
☒ 12. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 13. Add **900uL ethyl acetate.**
☒ 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. If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying.
☒ 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

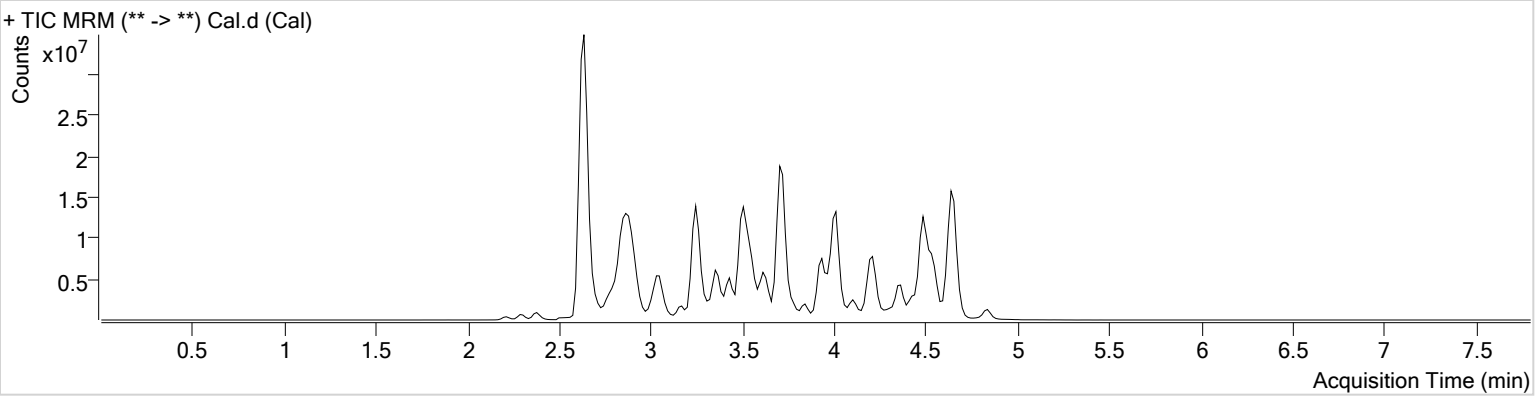
COMMENTS: Celena shrum also had a sample in this run. Sarah Pickle acted as the primary analyst and performed steps 3-17. I, Celena Shrum, approve of all steps in the method.

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 25 correct.batch.bin
Calibration Last Update	7/13/2020 8:30:29 AM

Instrument	Falco	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 061720.m	**Operator**	Sarah Pickle
Sample Position	P5-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	7/6/2020 6:05:52 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.815	50824	75.22	27.17	1418323	10.0000
7-aminoclonazepam	3.569	1666822	166.63	355.04	6565071	10.0000
7-aminoflunitrazepam	3.783	2861473	8769.50	656.44	6565071	10.0000
Acetyl Fentanyl	3.687	55227	28.20	15789.60	27754027	10.0000
Acetyl Norfentanyl	2.840	315980	167.15	563.02	27754027	10.0000
a-hydroxyalprazolam	4.500	367902	183.94	187.05	6565071	10.0000
alpha-hydroxymidazolam	4.483	2092251	581.67	117.80	6565071	10.0000
alpha-PVP	3.437	3715636	∞	316.65	5293701	10.0000
Alprazolam	4.626	3570477	1026.49	1126.06	31152923	10.0000
Amitriptyline	4.323	302283	32.03	53.56	731970	10.0000
Amphetamine	2.813	2332481	274.45	229.82	5293701	10.0000
Benzoylecgonine	3.385	1263053	557.70	2952.13	545748	10.0000
Buprenorphine	3.975	135225	152374.23	5451.35	586349	10.0000
Bupropion	3.619	2504287	348165.96	663.79	8398947	10.0000
Carbamazepine	4.219	13133943	1992.21	1612.86	1501394	10.0000
Carisoprodol	4.202	1859008	131543.97	354.08	10480348	10.0000
Chlordiazepoxide	4.566	1401555	691.99	4454.42	31152923	10.0000
Chlorpheniramine	3.846	4756	∞	∞	17491811	10.0000
Citalopram	3.979	935497	314.58	128.44	17491811	10.0000
Clomipramine	4.501	326956	∞	295.10	17491811	10.0000
Clonazepam	4.425	2904817	43.68	7072.96	31152923	10.0000
Cocaine	3.490	5518265	9323.12	460.90	27675706	10.0000
Codeine	2.714	442200	1058.74	635.51	9588256	10.0000
Cyclobenzaprine	4.246	242789	53.02	20.50	731970	10.0000
Desipramine	4.278	469926	10824.74	226.63	731970	10.0000
Dextromethorphan	3.985	427172	500.52	109.60	2205367	10.0000
Dextrorphan	3.310	1983790	∞	331.17	2205367	10.0000
Diazepam	4.843	2010758	1798.94	1050.19	31152923	10.0000
Dihydrocodeine	2.682	1141025	997.70	625.88	9588256	10.0000
Diphenhydramine	3.940	2135615	208.47	490.73	17491811	10.0000
Doxepin	4.044	218718	∞	23.56	4376369	10.0000
Doxylamine	3.539	7496164	664.34	22290.17	2205367	10.0000
EDDP	4.014	2606433	607.85	830.75	1535198	10.0000
Estazolam	4.535	9368565	676.07	1158.68	31152923	10.0000

AM #25 Multi-Drug Screen Results

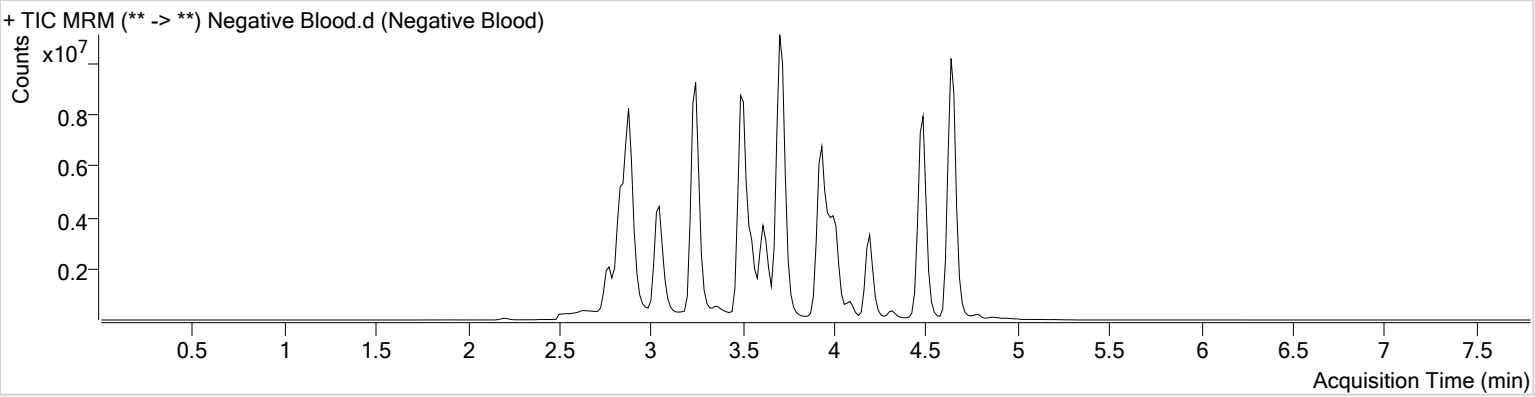
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Etizolam	4.651	408600	370.66	1230641.82	31152923	10.0000
Fentanyl	3.916	25665	288.26	8508.28	1816079	10.0000
Flunitrazepam	4.548	4513888	64038.21	1676.34	31152923	10.0000
Fluoxetine	4.242	262039	2602.38	4.92 **Low**	694542	10.0000
Flurazepam	4.022	751223	586.68	154.73	31152923	10.0000
Hydrocodone	2.896	1387995	27.58	∞	9588256	10.0000
Hydromorphone	2.867	36044	16.57	4.12 **Low**	205137	10.0000
Imipramine	4.275	590634	160.30	126.34	731970	10.0000
Ketamine	3.266	4019822	593.24	196.35	13333182	10.0000
Lamotrigine	3.419	388651	333.34	259.61	17491811	10.0000
Levamisole	2.871	3335210	546.91	435.42	27675706	10.0000
Lorazepam	4.424	1008231	∞	928.89	31152923	10.0000
Maprotiline	4.323	324897	∞	276.42	731970	10.0000
MDA	2.933	1578508	663.78	∞	12144081	10.0000
MDEA	3.176	2655486	410.18	131.37	12144081	10.0000
MDMA	3.024	3626438	33379.17	1501.47	12144081	10.0000
Meperidine	3.495	1409304	597.88	∞	2205367	10.0000
Meprobamate	3.637	825266	661.43	243.28	10480348	10.0000
Methadone	4.303	1108577	302.37	107.32	1535198	10.0000
Methamphetamine	2.919	5070653	∞	767.01	12144081	10.0000
Methocarbamol	3.557	826038	∞	∞	1535198	10.0000
Methylphenidate	3.436	6301359	905.54	∞	11555540	10.0000
Metoprolol	3.370	518689	∞	1009034.80	2205367	10.0000
Midazolam	4.362	424571	875732.62	234.25	31152923	10.0000
Mirtazapine	3.601	905350	201.35	1047.47	2205367	10.0000
Mitragynine	4.052	54351	25.48	83.19	2205367	10.0000
Morphine	2.214	279239	491.23	2112.06	205137	10.0000
Norbuprenorphine	3.745	17345	11.80	17750.68	586349	10.0000
Nordiazepam	4.677	2150701	436.97	899.00	31152923	10.0000
Norfentanyl	3.267	5845056	5254247.77	1631.78	27754027	10.0000
Norhydrocodone	2.867	28463	22.53	54.02	205137	10.0000
Normeperidine	3.513	1049378	217.69	310.43	17491811	10.0000
Noroxycodone	2.835	1441822	127.24	261.66	13333182	10.0000
Nortriptyline	4.325	162348	88.52	38.93	731970	10.0000
O-desmethyl-tramadol	2.853	9561110	∞	486.20	17491811	10.0000
Olanzapine	3.168	95035	∞	∞	1501394	10.0000
Oxazepam	4.490	3943756	439.85	∞	25217559	10.0000
Oxycodone	2.848	3012328	624.08	240.05	13333182	10.0000
Oxymorphone	2.286	1287331	300.80	∞	205137	10.0000
Paroxetine	4.239	38894	98.43	14.01	694542	10.0000
Phenazepam	4.636	3316280	34351.89	151259.43	31152923	10.0000
Phencyclidine	3.849	2033709	708.03	628.32	2205367	10.0000
Phentermine	3.071	889963	50.01	10.69	11555540	10.0000
Phenytoin	4.110	2875434	171689.03	25326.23	1501394	10.0000
Promethazine	4.198	674464	387.47	83.10	17491811	10.0000
Pseudoephedrine	2.644	43874963	26657.23	22551.48	12144081	10.0000
Quetiapine	4.145	863639	1031.72	320645.58	38263877	10.0000
Sertraline	4.457	127468	135941.67	102.46	694542	10.0000
Sufentanil	4.160	14766	379.88	16.96	27754027	10.0000
Tapentadol	3.375	3797641	1688.77	428.97	13333182	10.0000
Temazepam	4.657	6118090	∞	32.67	31152923	10.0000
Tramadol	3.356	9471769	∞	134.72	17491811	10.0000
Trazodone	3.976	865824	417036.79	984090.26	4376369	10.0000
Venlafaxine	3.707	5110935	790.42	∞	694542	10.0000
Zaleplon	4.350	5300694	25436.18	595.92	38263877	10.0000
Zolpidem	3.719	8654281	580.36	1067.23	38263877	10.0000
Zopiclone	3.639	510935	390.86	413.19	2894099	10.0000

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 25 correct.batch.bin
Calibration Last Update	7/13/2020 8:30:29 AM

Instrument	Falco	**Data File**	Negative Blood.d
Type	Sample	**Sample**	Negative Blood
Acq. Method	AM 25 061720.m	**Operator**	Sarah Pickle
Sample Position	P5-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	7/6/2020 6:14:23 PM		
Sample Info.			

Sample Chromatogram

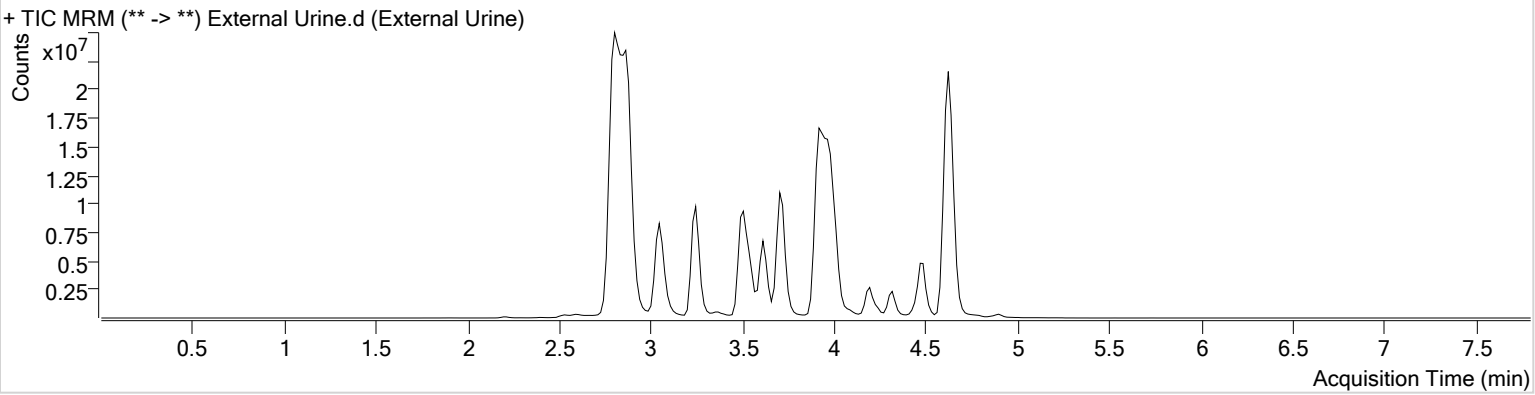


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 25 correct.batch.bin
Calibration Last Update 7/13/2020 8:30:29 AM

Instrument	Falco	**Data File**	External Urine.d
Type	Sample	**Sample**	External Urine
Acq. Method	AM 25 061720.m	**Operator**	Sarah Pickle
Sample Position	P5-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	7/6/2020 6:31:03 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	28121891	∞	∞	23923342	102.5641
Amphetamine	2.813	34226569	∞	13333.97	7748009	100.2570
O-desmethyl-tramadol	2.853	48718072	28042.82	1857.06	45854090	19.4374
Phentermine	3.117	251271	∞	17.52	18550540	1.7587 <5
Tramadol	3.356	248928	3706.07	2.93 **Low**	45854090	0.1003 <5

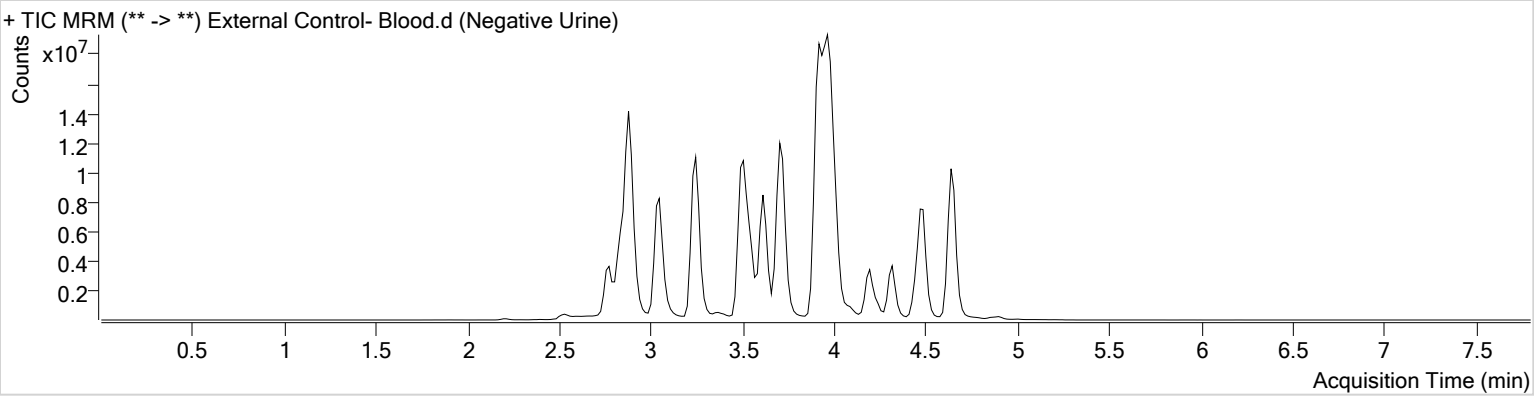
AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 25 correct.batch.bin
Calibration Last Update	7/13/2020 8:30:29 AM

Instrument	Falco	**Data File**	External Control- Blood.d
Type	Sample	**Sample**	Negative Urine
Acq. Method	AM 25 061720.m	**Operator**	Sarah Pickle
Sample Position	P5-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	7/6/2020 6:22:41 PM		
Sample Info.			

Data file name wasn't updated to reflect this sample as Negative Urine 7/13/20 SP

Sample Chromatogram



SP

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

Extraction Date: 7/6/20 Analyst: Sarah Pickle
Plate item/lot#: IDP-108-2-200303 Plate Expiration: 9/3/20

Mobile phase A: 0.1% Formic Acid in LCMS Water **Mobile phase B:** 0.1% Formic acid in Acetonitrile
Blank Blood Lot: 445283-4 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
Blank Urine Lot: POC031319
LCMS-QQQ ID: 069901

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.
Using a calibrated pipette, add **1000µl blood and urine (if applicable) (calibrated pipette)** into the appropriate wells of analytical (standards) plate. **Pipette ID:** #27
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 4. Pipette **500µL 0.1% formic acid in water blood sample, 500 µL saturated phosphate buffer in urine** in wells of 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, Curve weighting of Linear 1/x with r^2 values ≥0.98 for each analyte
☒ 3. RT +/- 3% or 0.100 min, whichever is greater, +/- 20% Accuracy for greater than (+/- 30% for 10ng/ml or less).
☒ 4. Case sample response for THC and OH-THC 3ng/mL (quantitative), Carboxy-THC: 10ng/mL (qualitative only) will be reported. Samples with a THC or OH-THC response over 50 ng/mL will be reported out as greater than 50 ng/mL.
☒ 5. Did all QCs pass for each analyte? (if not, describe in comments section)
☒ 6 Enter QCs into control charting.
☒ 7 Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Curve Ranges: THC 3-100, THC-COOH 10-250, THC-OH 1-100

SP

Idaho State Police
Forensic Services

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

Methanol External Control Solution (Lot: WS011620)

10 µL of 1mg/mL THC, 100 µL of 100 µg/mL THC-OH, C-THC in 9790 µL MeOH

Approximate concentration 1ug/mL.

Component	***Source***	***Source Lot Number***	***Expiration Date***
Methanol (LCMS)	Fisher	193941	
THC	Cerilliant	FE09101501	11/30/2020
C-THC	Cerilliant	FE07171501	09/30/2020
THC-OH	Cerilliant	FE07221601	07/31/2021
Prepared:	01/16/2020		
Prepared By:	Tamara Salazar		
Expires:	09/30/2020		

Urine External Control Solution (Lot: 042220)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 20ng/mL each

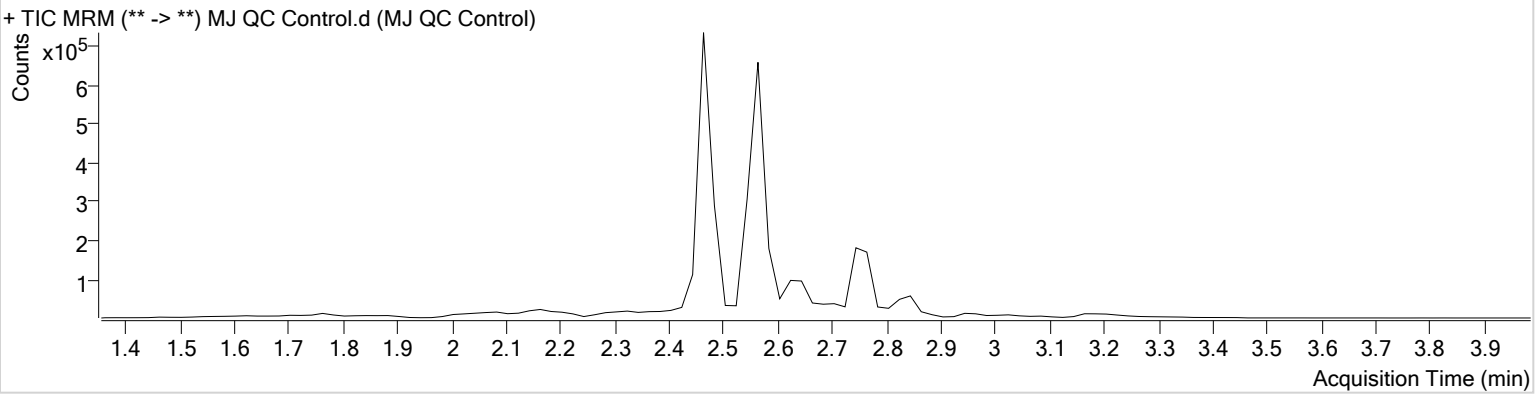
Component	***Source***	***Source Lot Number***
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution	-	WS011620
Prepared:	04/22/2020	
Prepared by:	Celena Shrum	
Expires:	09/30/2020	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ QC Control.d
Type	Sample	**Sample**	MJ QC Control
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 2:03:25 PM		
Sample Info.			

Sample Chromatogram



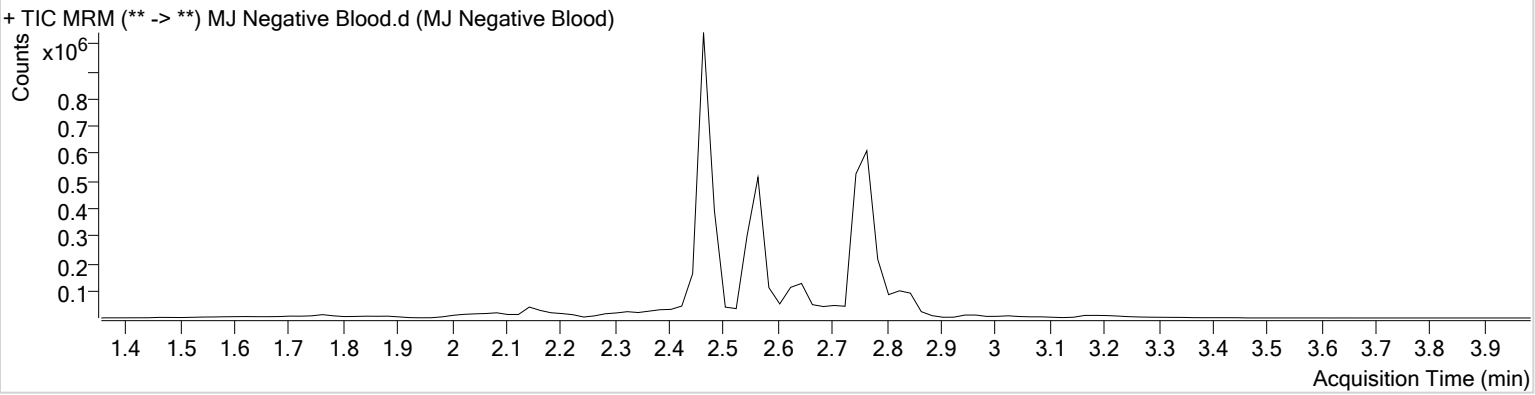
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	1473	25916	6.1583	ng/ml
THC-COOH	2.565	148839	710928	19.0077	ng/ml
THC-OH	2.471	9650	1174719	4.2849	ng/ml

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update	7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 2:16:29 PM		
Sample Info.			

Sample Chromatogram

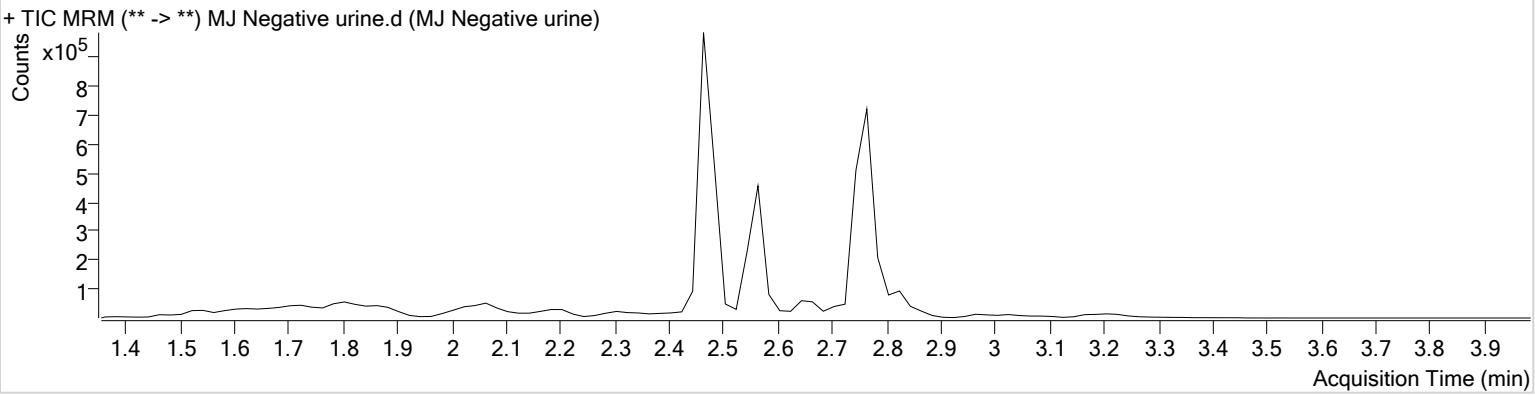


AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update	7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Negative urine.d
Type	Sample	**Sample**	MJ Negative urine
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-B2	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 2:29:33 PM		
Sample Info.			

Sample Chromatogram

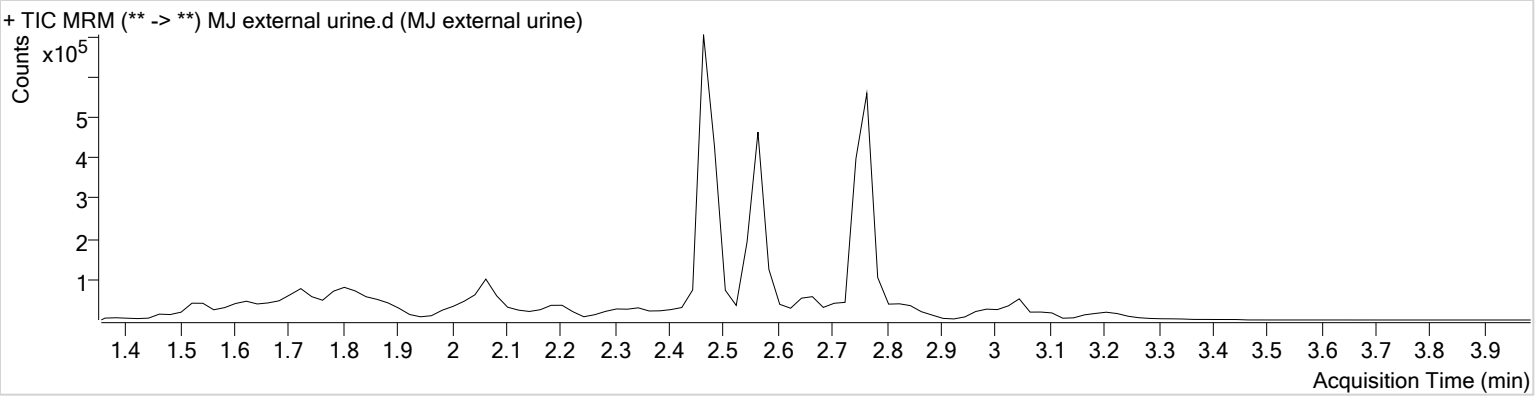


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ external urine.d
Type	Sample	**Sample**	MJ external urine
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-C2	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 2:36:06 PM		
Sample Info.			

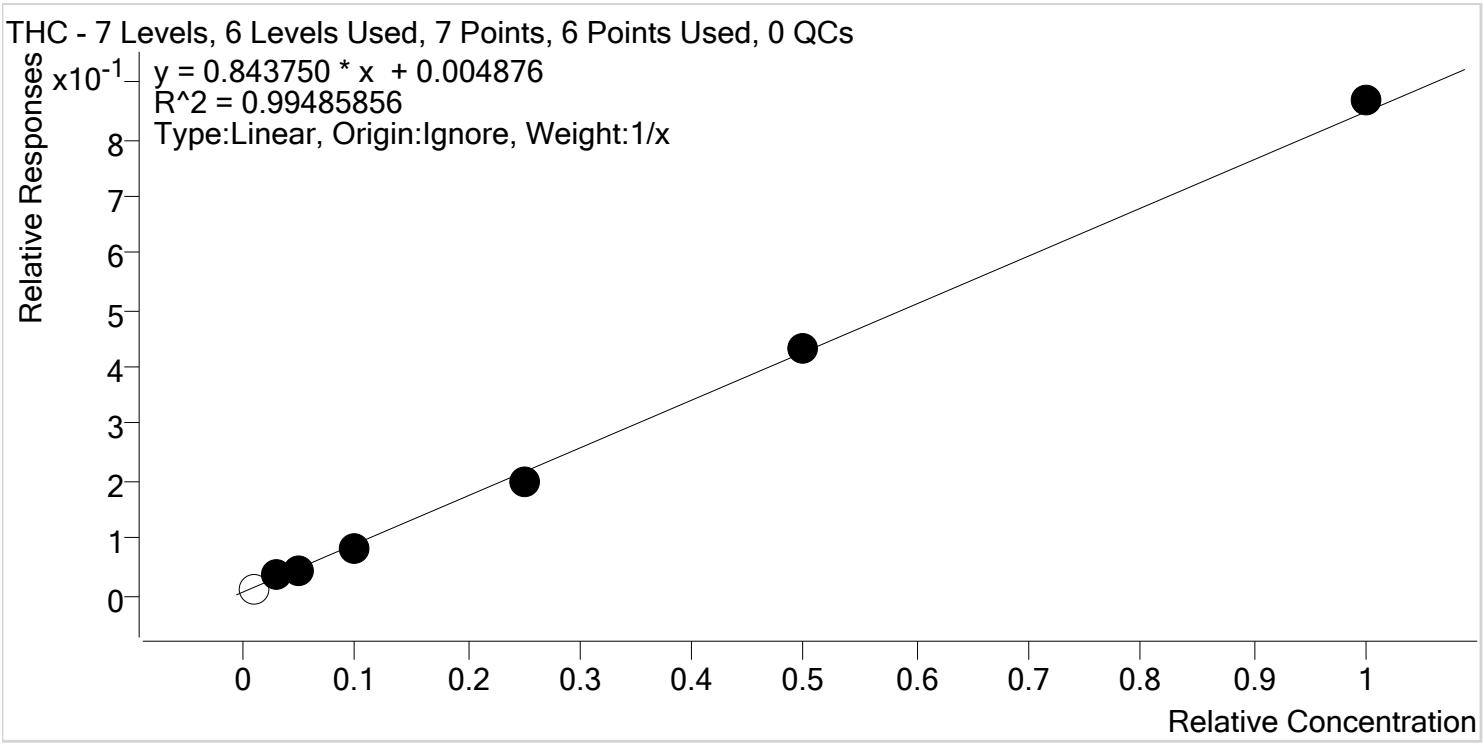
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.819	2568	34338	8.2859	ng/ml
THC-COOH	2.565	98042	619156	15.7659	ng/ml
THC-OH	2.471	13843	1324629	5.4007	ng/ml

AM #26 Cannabinoids Screen Calibration Curve Report

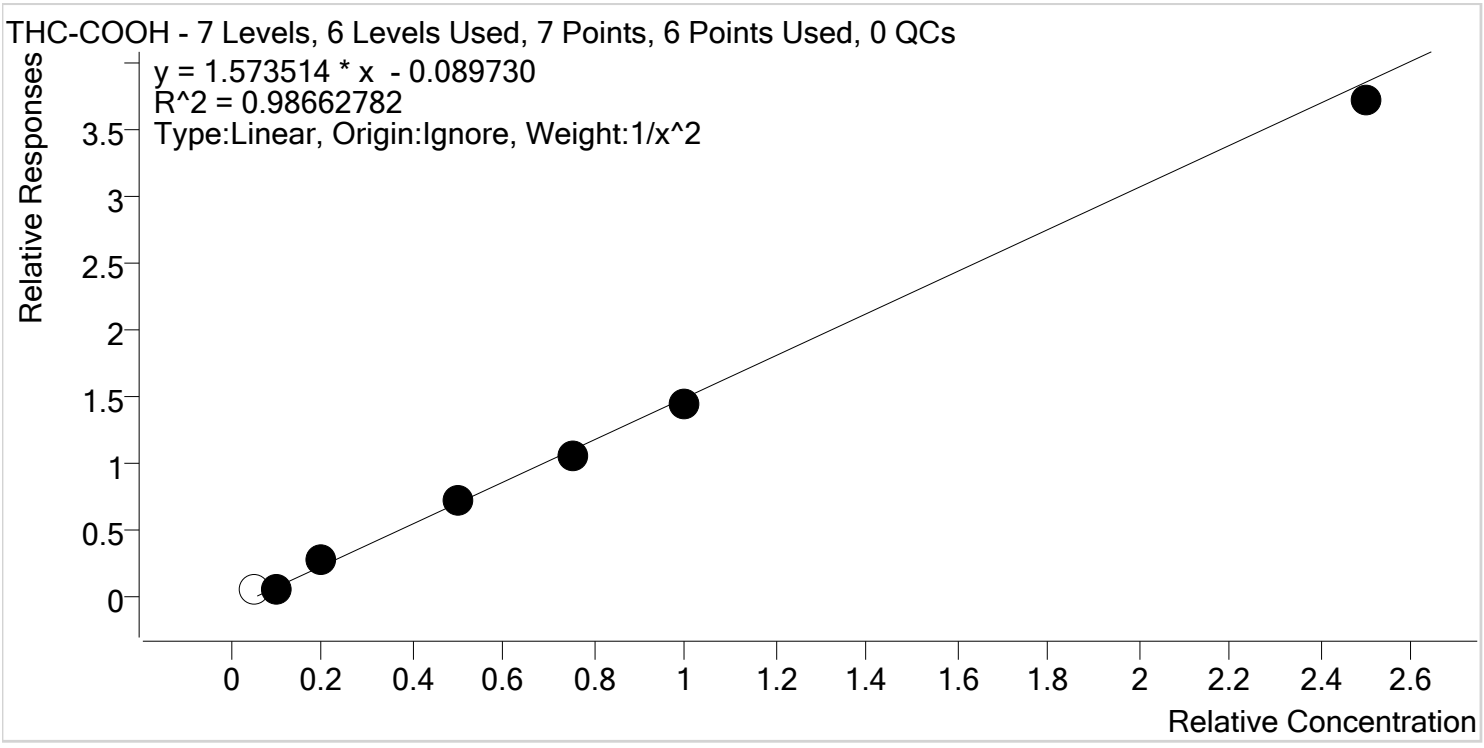
Batch results	D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Last Cal. Update	7/8/2020 10:44 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✗	1.0	0.7	71.2
MJ Cal 2	2	✔	3.0	3.8	128.2
MJ Cal 3	3	✔	5.0	4.4	88.5
MJ Cal 4	4	✔	10.0	8.9	88.7
MJ Cal 5	5	✔	25.0	22.6	90.4
MJ Cal 6	6	✔	50.0	50.9	101.9
MJ Cal 7	7	✔	100.0	102.3	102.3

AM #26 Cannabinoids Screen Calibration Curve Report

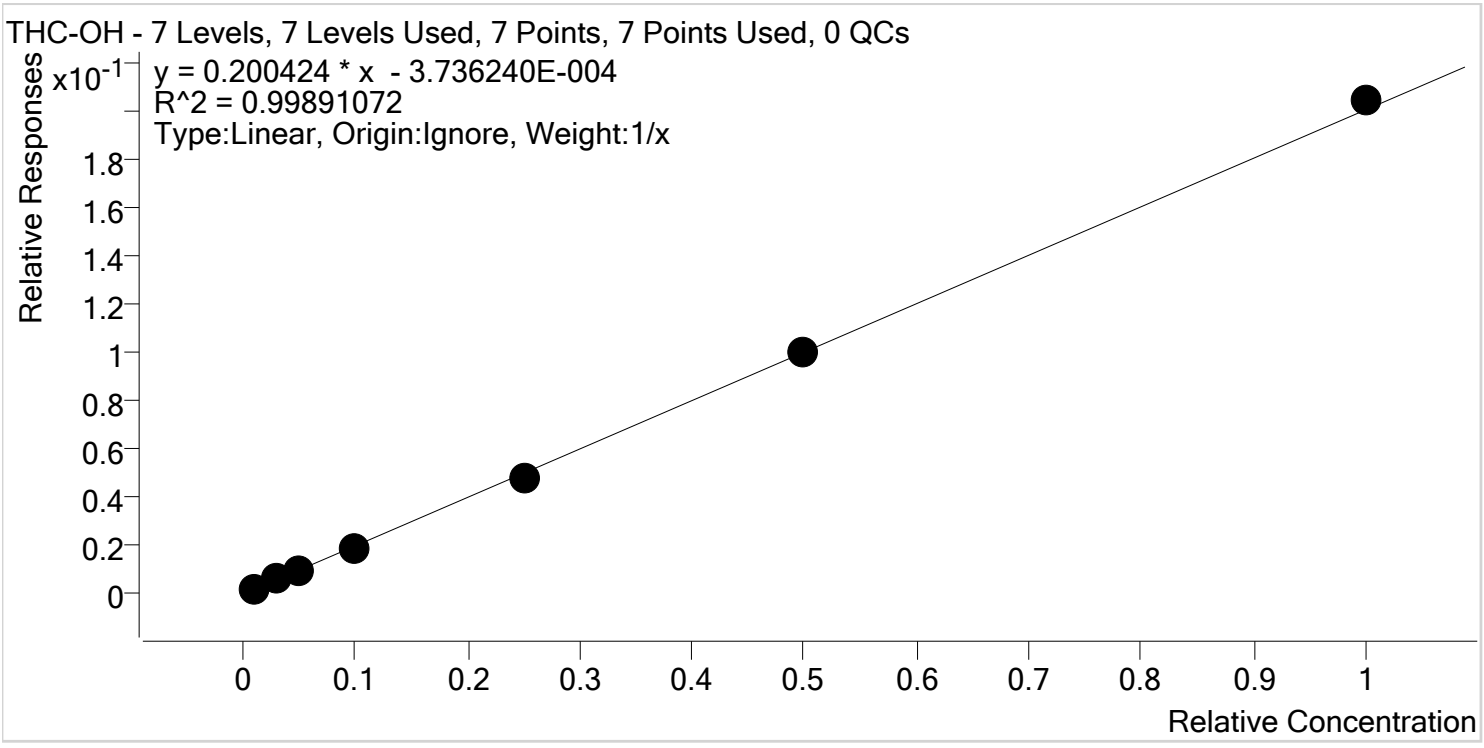
Batch results	D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Last Cal. Update	7/8/2020 10:44 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✗	5.0	9.4	187.6
MJ Cal 2	2	✔	10.0	9.2	92.0
MJ Cal 3	3	✔	20.0	23.5	117.5
MJ Cal 4	4	✔	50.0	50.6	101.2
MJ Cal 5	5	✔	75.0	71.6	95.4
MJ Cal 6	6	✔	100.0	97.3	97.3
MJ Cal 7	7	✔	250.0	241.2	96.5

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Last Cal. Update 7/8/2020 10:44 AM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-d3



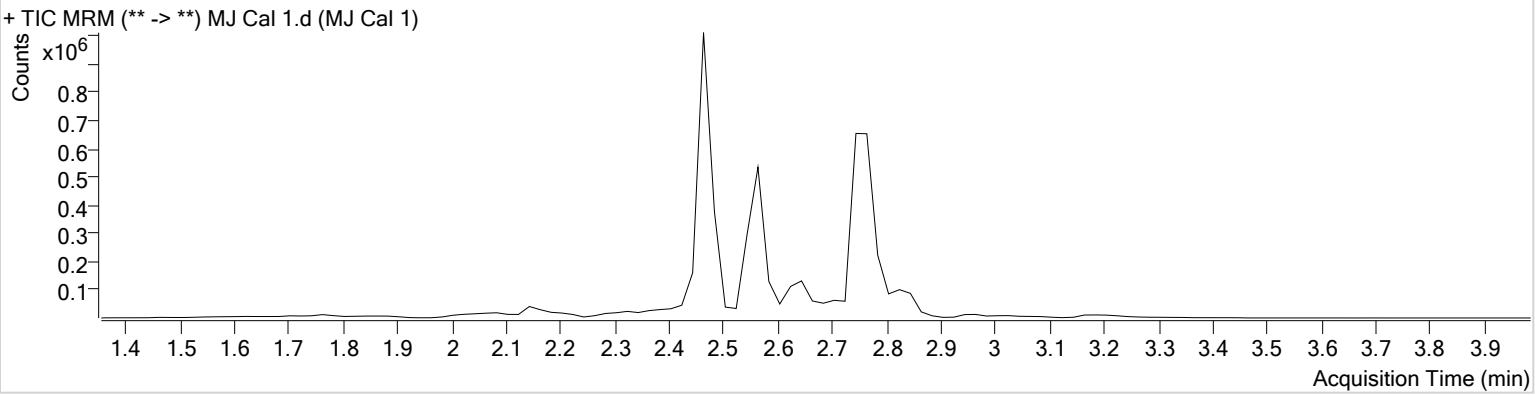
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.2	117.6
MJ Cal 2	2	✔	3.0	3.0	99.7
MJ Cal 3	3	✔	5.0	4.6	91.4
MJ Cal 4	4	✔	10.0	9.3	92.7
MJ Cal 5	5	✔	25.0	24.2	96.9
MJ Cal 6	6	✔	50.0	49.9	99.8
MJ Cal 7	7	✔	100.0	101.9	101.9

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 1:17:34 PM		
Sample Info.			

Sample Chromatogram



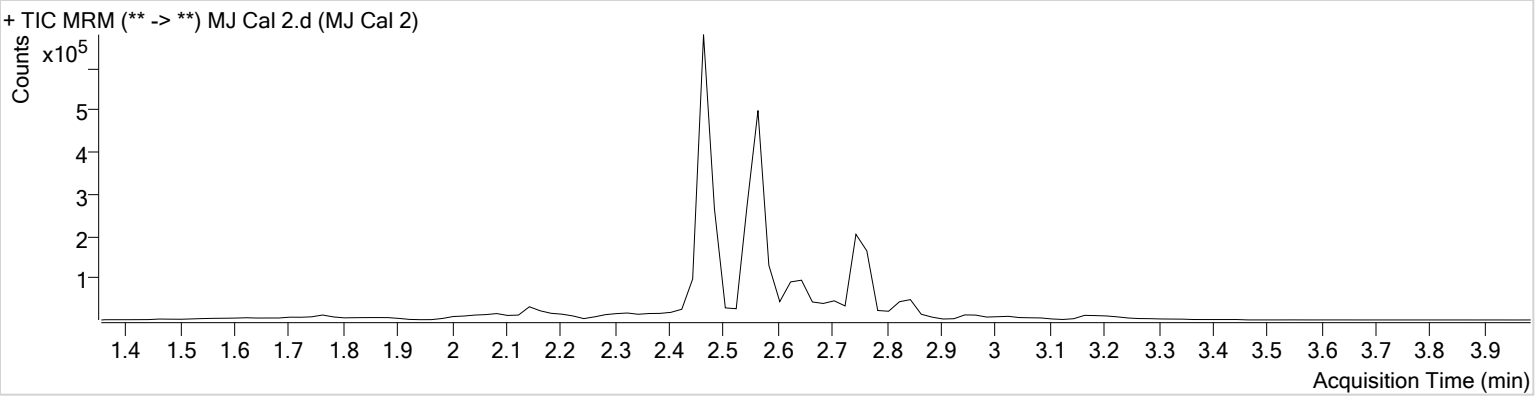
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.799	1509	138649	0.7123	ng/ml	**Low**
THC-COOH	2.565	38380	663554	9.3784	ng/ml	
THC-OH	2.471	3389	1707899	1.1764	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Cal 2.d
Type	Cal	**Sample**	MJ Cal 2
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 1:24:14 PM		
Sample Info.			

Sample Chromatogram



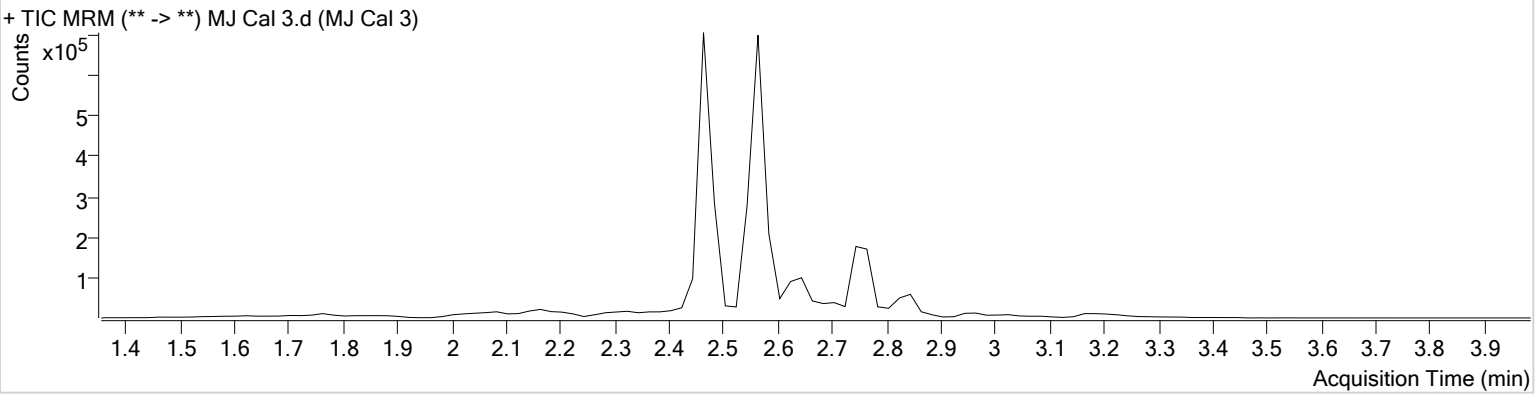
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.839	809	21677	3.8458	ng/ml	
THC-COOH	2.585	35912	652459	9.2005	ng/ml	
THC-OH	2.471	6232	1108679	2.9912	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Cal 3.d
Type	Cal	**Sample**	MJ Cal 3
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 1:30:46 PM		
Sample Info.			

Sample Chromatogram



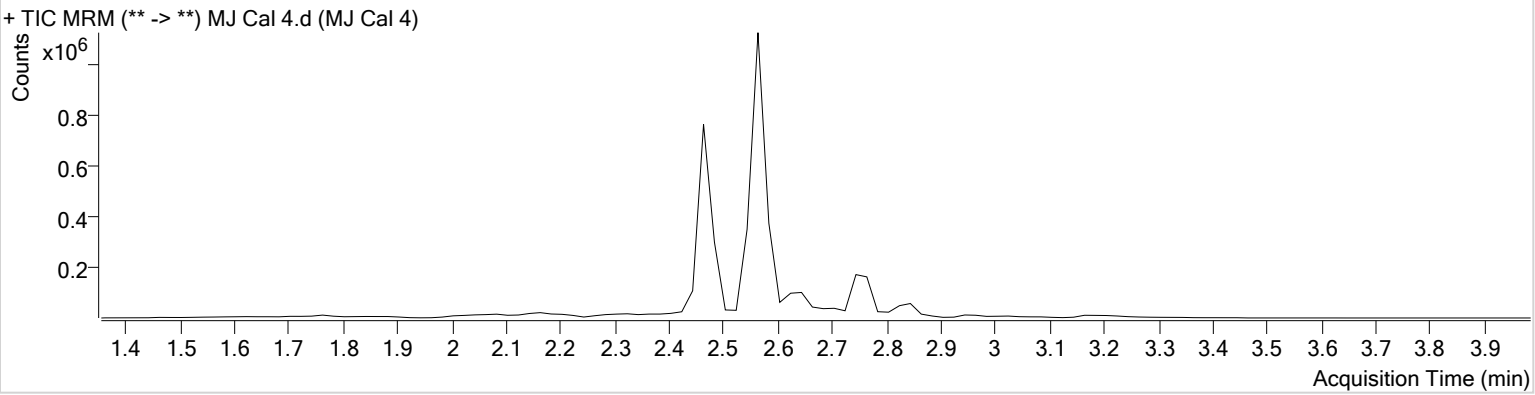
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	1143	27085	4.4240	ng/ml
THC-COOH	2.565	184365	658080	23.5070	ng/ml
THC-OH	2.471	9836	1120111	4.5678	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Cal 4.d
Type	Cal	**Sample**	MJ Cal 4
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 1:37:19 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	1868	23435	8.8714	ng/ml
THC-COOH	2.565	492486	696998	50.6072	ng/ml
THC-OH	2.471	20481	1124820	9.2714	ng/ml

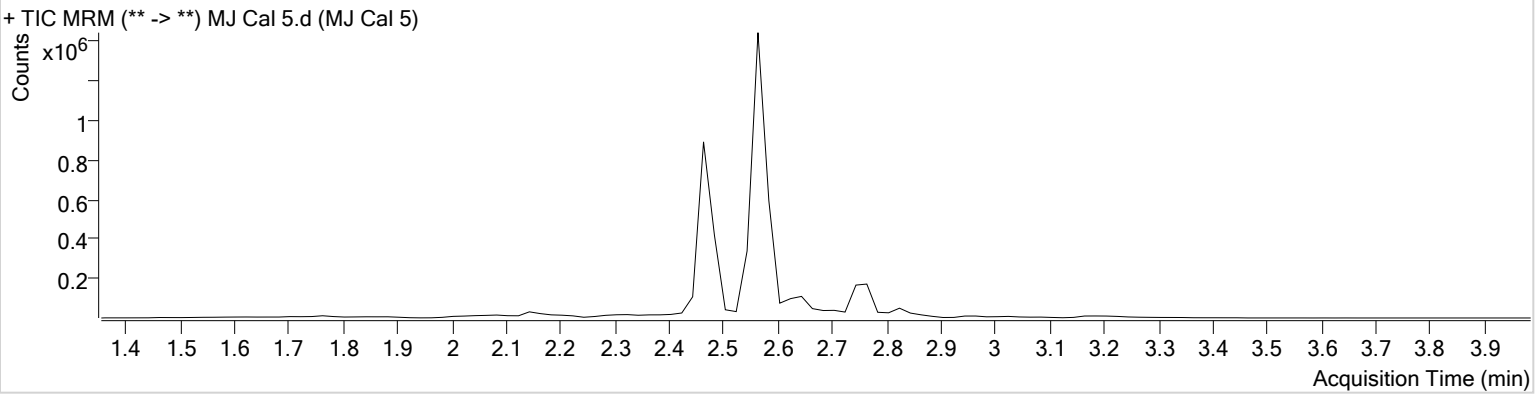
SP

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Cal 5.d
Type	Cal	**Sample**	MJ Cal 5
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 1:43:51 PM		
Sample Info.			

Sample Chromatogram



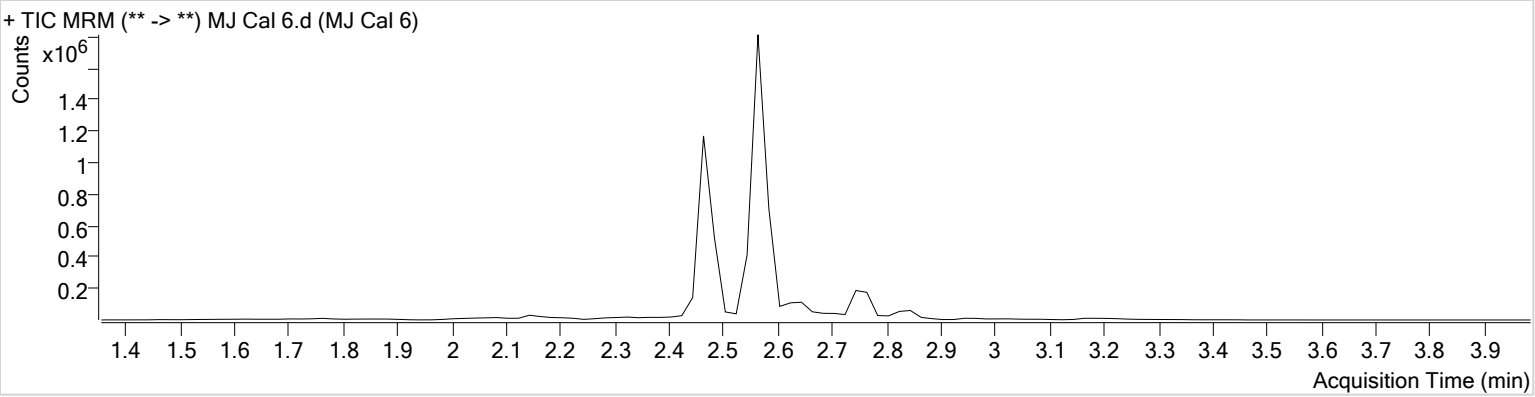
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	5698	29129	22.6047	ng/ml
THC-COOH	2.565	717532	692150	71.5851	ng/ml
THC-OH	2.471	54467	1130129	24.2329	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Cal 6.d
Type	Cal	**Sample**	MJ Cal 6
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 1:50:23 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	10972	25243	50.9393 ng/ml
THC-COOH	2.565	994167	689575	97.3261 ng/ml
THC-OH	2.471	112358	1127804	49.8938 ng/ml

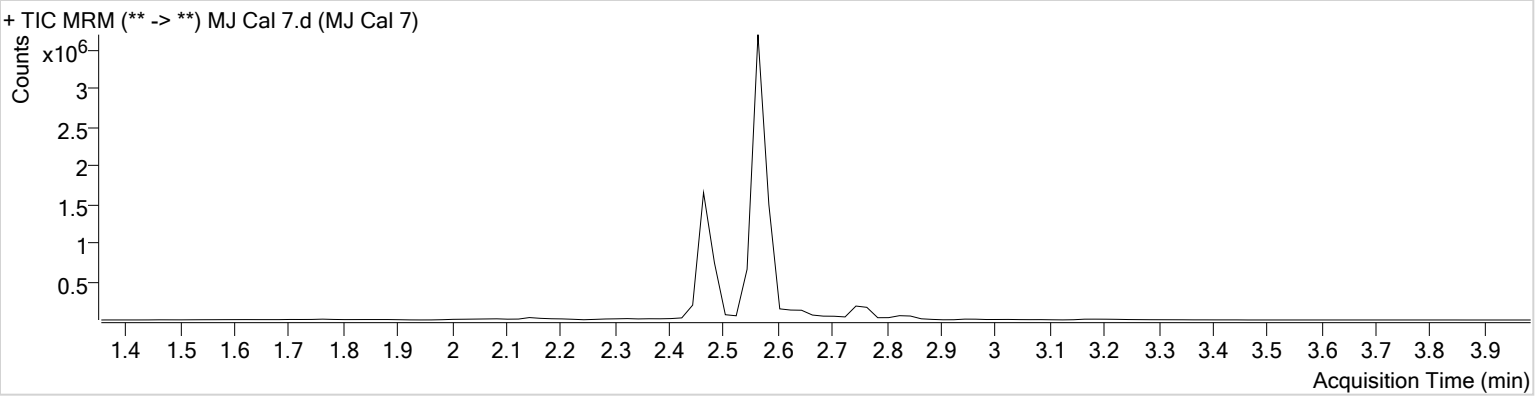
SP

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\070620 AM 25 26 SP\QuantResults\AM 26.batch.bin
Calibration Last Update 7/8/2020 10:44:14 AM

Instrument	Falco	**Data File**	MJ Cal 7.d
Type	Cal	**Sample**	MJ Cal 7
Acq. Method	am 26 test.m	**Operator**	Sarah Pickle
Sample Position	P3-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/6/2020 1:56:55 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	20444	23549	102.3148	ng/ml
THC-COOH	2.565	2376861	641477	241.1814	ng/ml
THC-OH	2.471	220949	1084190	101.8665	ng/ml

Idaho State Police
Forensic Services

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

Methanol External Control Solution (Lot: 031820)

100 ul of 1mg/mL stock was added to each drug to 9700 ul of LC MeOH.

Component	*Source*	*Source Lot Number*	*Expiration Date*
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared: 03/18/20			
Prepared By: Sarah Pickle			
Expires: 03/18/21			

Urine External Control Solution (Lot: WS052220)

200 ul of methanol external control solution was added to 9800 ul of urine.
Approximately 100ng/mL of each compound.

Component	*Source*	*Source Lot Number*
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	05/22/20	
Prepared by:	Celena Shrum	
Expires:	03/18/21	