



**Worklist: 3812**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-2060	4	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4343	3	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4349	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4402	4	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4403	4	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4427	3	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4505	4	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4632	3	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4652	3	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2019-4774	3	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3028	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3028	2	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3028	3	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3055	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3090	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3129	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3130	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3142	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3144	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3152	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3153	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

**Worklist: 3812**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2019-3209	2	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2019-3282	1	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 11/05/2019  
 Plate lot#: 0543908

Analyst: Celena Shrum  
 Plate Expiration: 11/28/2019

**Mobile phase A:** 10mM Amm Form  
 0.5M Ammonium Hydroxide

**Blank Blood Lot:** 445283-3  
**LCMS-QQQ ID:** 069901

**Mobile phase B:** 0.1% Formic Acid in MeOH  
 Ethyl Acetate LC Methanol

**Column:** Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

### Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

### Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL 500mM sodium phosphate buffer. 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: #3**
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 5. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 8. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). **(Load at 85-100 PSI- Selector to the right).** *Manifold ID: 067104*
- 9. Wait 5 minutes.
- 10. Add **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. *SPE Dry ID: 067103*
- 17. Reconstitute in **100µL 100% 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: Zopiclone not evaluated due to poor ISTD response.



# Idaho State Police Forensic Services

## AM #25 Blood Multi-Drug Screen by LCMS-QQQ

### Methanol External Control Solution (Lot: 042719)

100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
Morphine	Cerilliant	FE08141515	November 2020
Metoprolol	Cerilliant	FN06091510	July 2020
Flunitrazepam	Cerilliant	FE08051602	August 2021
Trazodone	Cerilliant	FN12151403	January 2020
Prepared:	04/27/19		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

### Blood External Control Solution (Lot: WS042719)

100 ul of methanol external control solution was added to 9900 ul of blood.

Approximately 50ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
Methanol External Control Solution		042719
Prepared:	04/27/19	
Prepared by:	Tamara Salazar	
Expires:	01/31/2020	



# Idaho State Police Forensic Services

## AM #25 Blood and Urine Multi-Drug Screen by LCMS-QQQ

### Methanol External Control Solution (Lot: 042719)

100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
Morphine	Cerilliant	FE08141515	November 2020
Metoprolol	Cerilliant	FN06091510	July 2020
Flunitrazepam	Cerilliant	FE08051602	August 2021
Trazodone	Cerilliant	FN12151403	January 2020
Prepared:	04/27/19		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

### Urine External Control Solution (Lot: WS092519)

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

Approximately 100ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		042719
Prepared:	09/25/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

# AM #25 Multi-Drug Screen Results



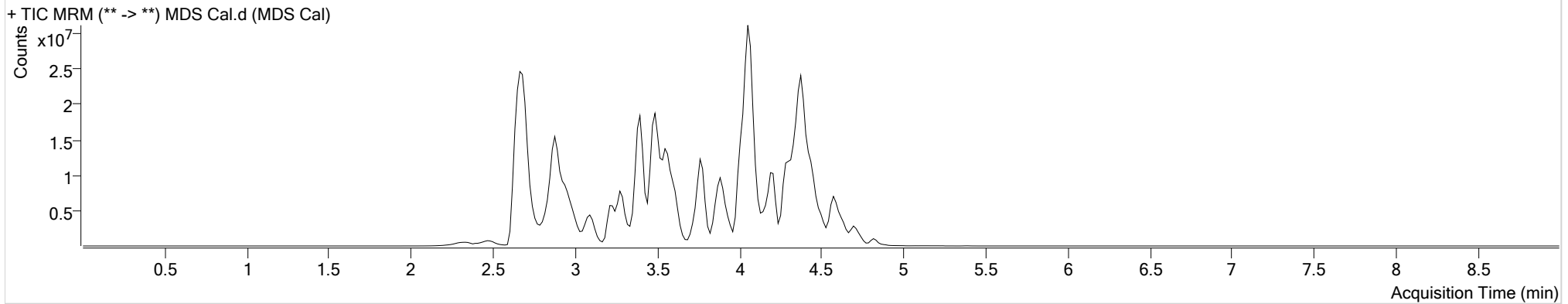
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\MDS.batch.bin  
11/6/2019 2:49:17 PM

**Instrument** Falco  
**Type** Cal  
**Acq. Method** am 25 all.m  
**Sample Position** P1-B1  
**Injection Volume** 5  
**Acq. Date-Time** 11/5/2019 8:26:57 PM  
**Sample Info.**

**Data File** MDS Cal.d  
**Sample** MDS Cal  
**Operator**  
**Comment**

**Sample Chromatogram**



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.921	16752	51.91	81.13	342561	10.0000
7-aminoclonazepam	3.536	266159	∞	1791.87	1157956	10.0000
7-aminoflunitrazepam	3.765	1076092	377.88	250.79	6308187	10.0000
Acetyl Fentanyl	3.869	196009	99.83	63.57	17553051	10.0000
Acetyl Norfentanyl	2.869	197316	1112.39	61.47	7925847	10.0000
a-hydroxyalprazolam	4.484	26713	18.18	32.72	160011	10.0000
alpha-hydroxymidazolam	4.574	311122	37.67	46.43	2425538	10.0000
alpha-PVP	3.527	3433645	8778.78	717.46	14373120	10.0000
Alprazolam	4.594	511938	99.61	226.63	1237754	10.0000
Amitriptyline	4.445	2628049	275.14	188.22	5709459	10.0000
Amphetamine	2.873	2189675	421.13	∞	4411556	10.0000
Benzoylcegonine	3.351	647968	303.42	835.40	3387580	10.0000
Buprenorphine	4.571	285167	98.18	179.02	1542355	10.0000
Bupropion	3.756	2268892	627.92	422.99	6313758	10.0000
Carbamazepine	4.218	3130392	81.30	∞	20133651	10.0000
Carisoprodol	4.201	316389	261.23	63.34	1875084	10.0000
Chlordiazepoxide	4.717	172616	∞	∞	5239793	10.0000
Chlorpheniramine	3.936	14467	6.83	∞	36692926	10.0000

# AM #25 Multi-Drug Screen Results



CS

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Citalopram	4.069	1667094	59128.07	31085.99	7660180	10.0000
Clonazepam	4.439	59851	∞	86.54	117292	10.0000
Cocaine	3.549	2974454	6683.95	216.68	13896678	10.0000
Codeine	2.819	328701	1138.63	8783.29	1568462	10.0000
Cyclobenzaprine	4.369	1941100	2753.66	100.68	5861109	10.0000
Desipramine	4.385	2847726	25359.47	∞	18316287	10.0000
Dextromethorphan	4.077	1486954	∞	100805.41	6669541	10.0000
Dextrorphan	3.370	1738388	∞	∞	11263294	10.0000
Diazepam	4.826	427998	789.26	360.33	1922153	10.0000
Dihydrocodeine	2.741	955670	169.46	254.16	4553248	10.0000
Diphenhydramine	4.015	5987471	45295.49	1460.14	36692926	10.0000
Doxepin	4.167	1489269	∞	∞	10437318	10.0000
Doxylamine	3.614	6738740	29672.61	806.03	26285562	10.0000
EDDP	4.058	2346862	284.04	1556.42	15500676	10.0000
Estazolam	4.519	1327577	690.39	125.44	4037990	10.0000
Etizolam	4.619	141154	896.40	76207.74	4037990	10.0000
Fentanyl	4.114	200558	59.94	86167.72	9381231	10.0000
Flunitrazepam	4.547	393563	166.22	695.57	97206	10.0000
Fluoxetine	4.318	2112631	2316.36	101360.28	8750628	10.0000
Flurazepam	4.174	1663366	851596.04	464.48	97206	10.0000
Hydrocodone	3.016	536414	∞	∞	3540613	10.0000
Hydromorphone	2.488	703985	∞	∞	2437188	10.0000
Imipramine	4.398	3719926	621137.00	240.44	13691330	10.0000
Ketamine	3.496	2423802	∞	∞	11723152	10.0000
Lamotrigine	3.585	52908	17.58	5.81	6632243	10.0000
Levamisole	2.961	2552819	2674.16	122.04	13896678	10.0000
Lorazepam	4.423	9766	∞	5.38	117292	10.0000
Maprotiline	4.445	2694032	435.21	∞	5709459	10.0000
MDA	3.008	848559	442.97	14.15	4060208	10.0000
MDEA	3.237	3136190	∞	186.86	14417826	10.0000
MDMA	3.084	3201616	1139676.83	∞	2054822	10.0000
Meperidine	3.586	1287363	201.38	246.46	6632243	10.0000
Meprobamate	3.636	63409	124.31	30.52	230674	10.0000
Methadone	4.379	4414221	6563000.18	740.66	18437872	10.0000
Methamphetamine	2.963	3641915	∞	1397.98	15355448	10.0000
Methocarbamol	3.541	133375	154.38	56.03	6632243	10.0000
Methylphenidate	3.496	5857298	∞	∞	27059842	10.0000
Metoprolol	3.416	543776	762.63	44378.31	6632243	10.0000
Midazolam	4.743	190921	83.57	∞	2179928	10.0000
Mirtazapine	3.937	1991785	∞	31110.28	6632243	10.0000
Mitragynine	4.204	250971	121846.24	162.45	10437318	10.0000
Morphine	2.308	273195	∞	107.03	180764	10.0000
Norbuprenorphine	3.851	25266	17073.21	15567.66	134373	10.0000
Nordiazepam	4.676	96398	99598.23	79.40	316997	10.0000

# AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Norfentanyl	3.296	4061894	568.91	746.46	16820051	10.0000
Norhydrocodone	2.942	21887	10.06	10.23	489100	10.0000
Normeperidine	3.573	587253	349.48	5.89	2035593	10.0000
Noroxycodone	2.879	387316	22.47	141.15	1266405	10.0000
Nortriptyline	4.432	1193812	90809.92	597.89	2670890	10.0000
O-desmethyl-tramadol	2.882	6526435	5016.28	20.05	30421991	10.0000
Olanzapine	3.917	176468	18.64	29.29	61986	10.0000
Oxazepam	4.489	39999	25.59	9.28	253436	10.0000
Oxycodone	2.906	1301411	225.48	∞	5031153	10.0000
Oxymorphone	2.348	580336	∞	188.49	1713676	10.0000
Paroxetine	4.391	163944	∞	29768.74	5773600	10.0000
Phenazepam	4.619	135720	192.43	432.44	709609	10.0000
Phencyclidine	3.909	2908671	1138.95	453.51	13620037	10.0000
Phentermine	3.131	728098	72.56	5.19	8737743	10.0000
Phenytoin	4.109	11894	57.78	38.66	61986	10.0000
Promethazine	4.351	4545673	3056.44	∞	20402136	10.0000
Pseudoephedrine	2.673	34756502	8600.88	∞	96594106	10.0000
Quetiapine	4.465	3460338	648.86	952.56	3806661	10.0000
Sertraline	4.579	1181691	124380.35	130120.04	5773600	10.0000
Sufentanil	4.450	198099	54474.62	97.50	13178639	10.0000
Tapentadol	3.421	3015679	2924.45	514.97	14832077	10.0000
Temazepam	4.641	132477	6.82	8.48	890446	10.0000
Tramadol	3.401	6625569	12246.16	62.45	28251351	10.0000
Trazodone	4.634	3014706	210935.76	∞	12288925	10.0000
Venlafaxine	3.781	4553845	1204.28	965.78	24001936	10.0000
Zaleplon	4.334	549687	154391.28	106.80	1236309	10.0000
Zolpidem	4.302	5888185	377.31	427.51	29434175	10.0000
Zopiclone	4.189	8463	208.54	849.90	62935	10.0000 Not evaluated.



# AM #25 Multi-Drug Screen Results



## Batch results

D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\MDS.batch.bin

## Calibration Last Update

11/6/2019 2:49:17 PM

## Instrument

Falco

## Type

Sample

## Acq. Method

am 25 all.m

## Sample Position

P1-D3

## Injection Volume

5

## Acq. Date-Time

11/5/2019 8:36:38 PM

## Sample Info.

## Data File

MDS Negative Blood.d

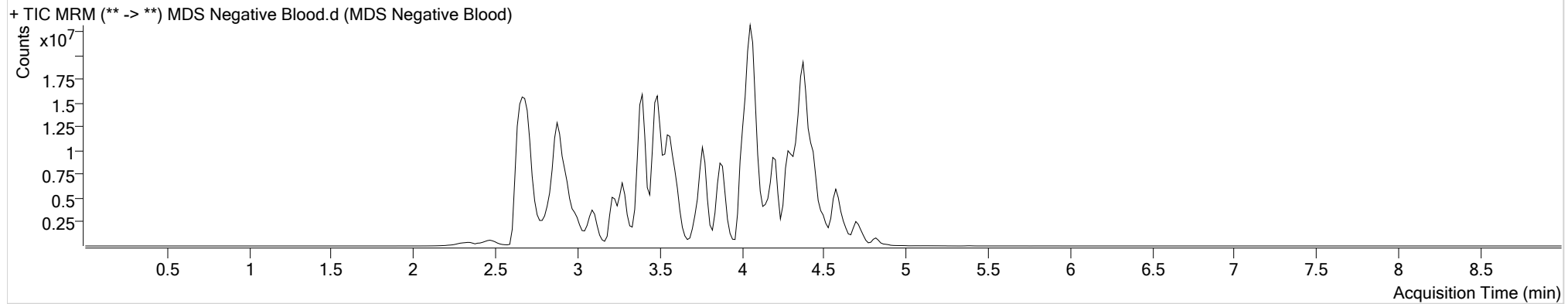
## Sample

MDS Negative Blood

## Operator

## Comment

## Sample Chromatogram



# AM #25 Multi-Drug Screen Results



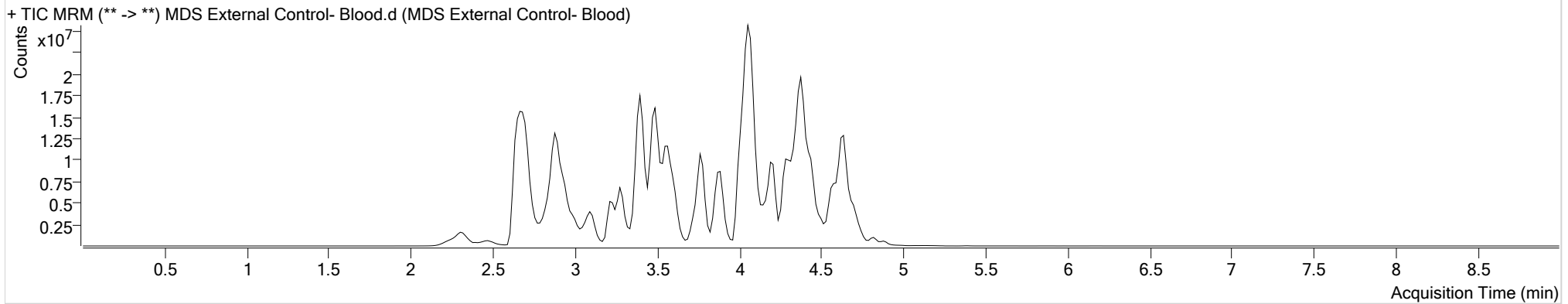
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\MDS.batch.bin  
11/6/2019 2:49:17 PM

**Instrument** Falco  
**Type** Sample  
**Acq. Method** am 25 all.m  
**Sample Position** P1-E3  
**Injection Volume** 5  
**Acq. Date-Time** 11/5/2019 8:46:10 PM  
**Sample Info.**

**Data File** MDS External Control- Blood.d  
**Sample** MDS External Control- Blood  
**Operator**  
**Comment**

**Sample Chromatogram**



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Flunitrazepam	4.547	3971347	739.03	1476.81	91968	106.6548
Methamphetamine	2.963	734380	∞	∞	18049438	1.7155 < 10 <sup>-5</sup>
Metoprolol	3.416	5126585	1128.06	2611356.90	8547581	73.1519
Morphine	2.308	2550620	∞	∞	182573	92.4374
Trazodone	4.634	27581336	∞	4901646.78	13251452	84.8439

# AM #25 Multi-Drug Screen Results

**Batch results**

D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\MDS.batch.bin

**Calibration Last Update**

11/6/2019 2:49:17 PM

**Instrument**

Falco

**Data File**

MDS Negative Urine.d

**Type**

Sample

**Sample**

MDS Negative Urine

**Acq. Method**

am 25 all.m

**Operator****Sample Position**

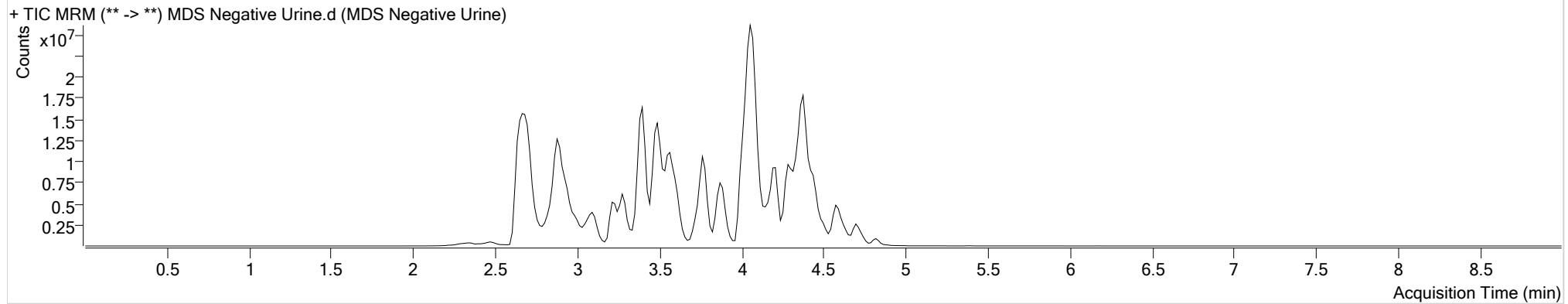
P1-F3

**Comment****Injection Volume**

5

**Acq. Date-Time**

11/5/2019 8:55:41 PM

**Sample Info.****Sample Chromatogram**

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.963	792532	5.52	34.50	17374383	1.9233 <10 <sup>CS</sup>

# AM #25 Multi-Drug Screen Results



**Batch results**

D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\MDS.batch.bin

**Calibration Last Update**

11/6/2019 2:49:17 PM

**Instrument**

Falco

**Data File**

MDS External Control- Urine.d

**Type**

Sample

**Sample**

MDS External Control- Urine

**Acq. Method**

am 25 all.m

**Operator**

**Sample Position**

P1-G3

**Comment**

**Injection Volume**

5

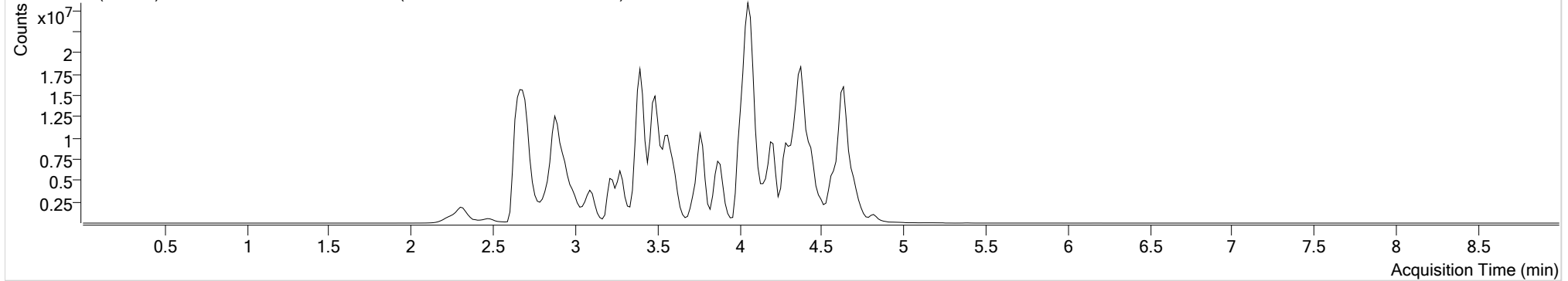
**Acq. Date-Time**

11/5/2019 9:05:11 PM

**Sample Info.**

**Sample Chromatogram**

+ TIC MRM (\*\* -> \*\*) MDS External Control- Urine.d (MDS External Control- Urine)



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc. <sup>11/12/19</sup>
7-aminoflunitrazepam	3.765	292385	255.85	67.40	6277813	2.7302 <10 <sup>cs</sup> <5
Flunitrazepam	4.547	3615261	∞	117333.76	58690	152.1441 <i>cs</i>
Methamphetamine	2.979	1531468	14.91	∞	17537173	3.6820 <10
Metoprolol	3.416	6674850	604.68	∞	8556037	95.1502
Morphine	2.308	3108339	∞	217.47	152557	134.8139
Trazodone	4.634	34102108	∞	75003.39	11846009	117.3486

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

Extraction Date: 11/05/2019  
Plate lot#: 190716

Analyst: Celena Shrum  
Plate Expiration: 01/16/2020

**Mobile phase A:** 0.1% Formic Acid in LCMS Water  
**Blank Blood Lot:** 445283-3  
**LCMS-QQQ ID:** 069901

**Mobile phase B:** 0.1% Formic acid in Acetonitrile  
**Column:** UCT Selectra DA 100 x 2.1mm 3um  
**Blank Urine Lot:** POC031319

### 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: #3**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 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 **800µL of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate.
- 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)** Manifold ID: 067104
- 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.  
*SPE Dry ID: 067103*
- 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- 1. Create batch and process data.
- 2. Make any necessary integration changes, Curve weighting of Linear 1/x with  $r^2$  values  $\geq 0.98$  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: THC not evaluated. Carboxy-THC curve range: 5-250, THC-OH curve range: 3-100.

Instrument 69679 is listed on the printouts, however, Instrument 069901 was actually used for analytical method #26.



# Idaho State Police Forensic Services

## AM #26 Quantitative Analysis of THC and Metabolites in Blood and Urine by LCMS-QQQ

### Methanol External Control Solution (Lot: WS041619)

10 ul of 1mg/mL THC, 100 ul of 100 ug/mL THC-OH, C-THC in 9790 ul MeOH  
Approximate concentration 1ug/mL.

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	184782	
THC	Cerilliant	FE09101501	11/30/2020
C-THC	Cerilliant	FE07171501	09/30/2020
THC-OH	Cerilliant	FE01121503	01/31/2020
Prepared:	04/16/2019		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

### Urine External Control Solution (Lot: 100719)

100 ul of methanol external control solution was added to 9900 ul of urine.  
Approximately 10ng/mL of each compound.

Component	Source	Source Lot Number
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution	-	WS041619
Prepared:	10/07/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

# AM #26 Cannabinoids Screen Results



**Batch results**

D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin

**Calibration Last Update**

11/7/2019 12:50:07 PM

**Instrument**

Falco

**Data File**

MJ Negative Blood.d

**Type**

Sample

**Sample**

MJ Negative Blood

**Acq. Method**

am 26 test.m

**Operator**

**Comment**

**Sample Position**

P3-A2

**Injection Volume**

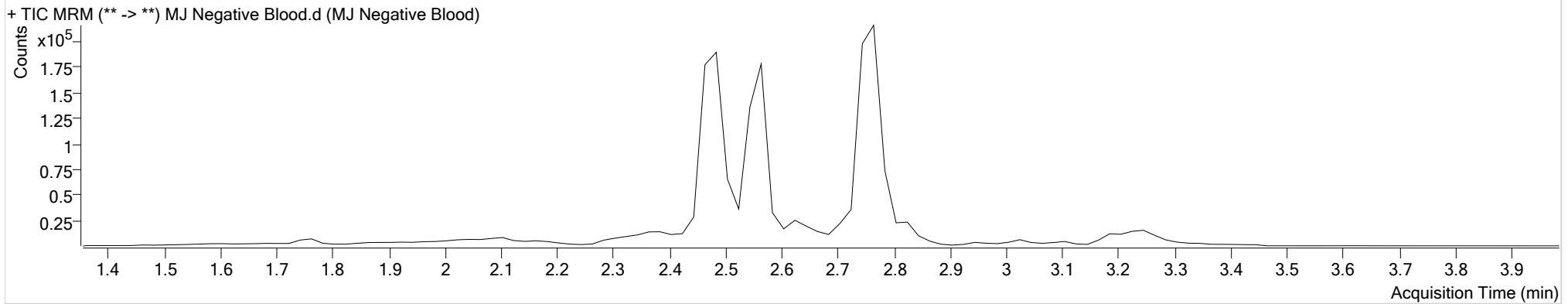
10

**Acq. Date-Time**

11/5/2019 5:00:47 PM

**Sample Info.**

**Sample Chromatogram**



# AM #26 Cannabinoids Screen Results



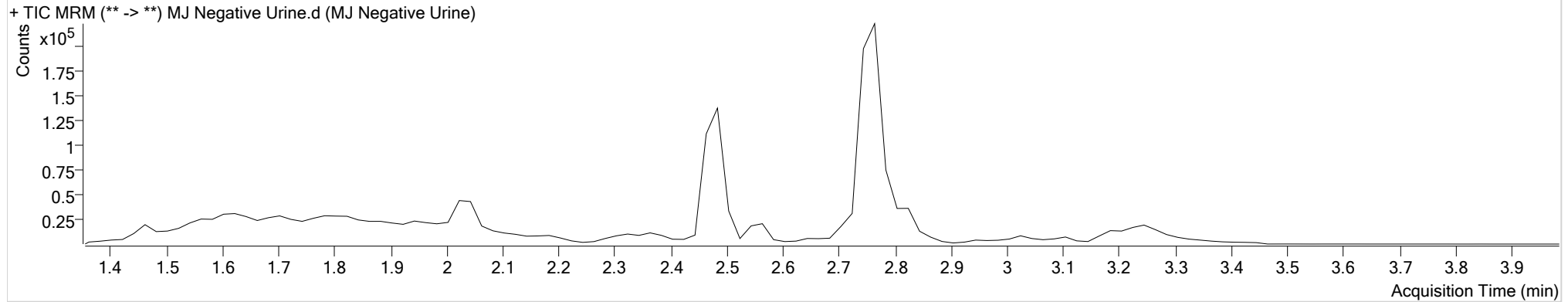
**Batch results**  
**Calibration Last Update**

D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
11/7/2019 12:50:07 PM

**Instrument** Falco  
**Type** Sample  
**Acq. Method** am 26 test.m  
**Sample Position** P3-B2  
**Injection Volume** 10  
**Acq. Date-Time** 11/5/2019 5:07:18 PM  
**Sample Info.**

**Data File** MJ Negative Urine.d  
**Sample** MJ Negative Urine  
**Operator**  
**Comment**

## Sample Chromatogram



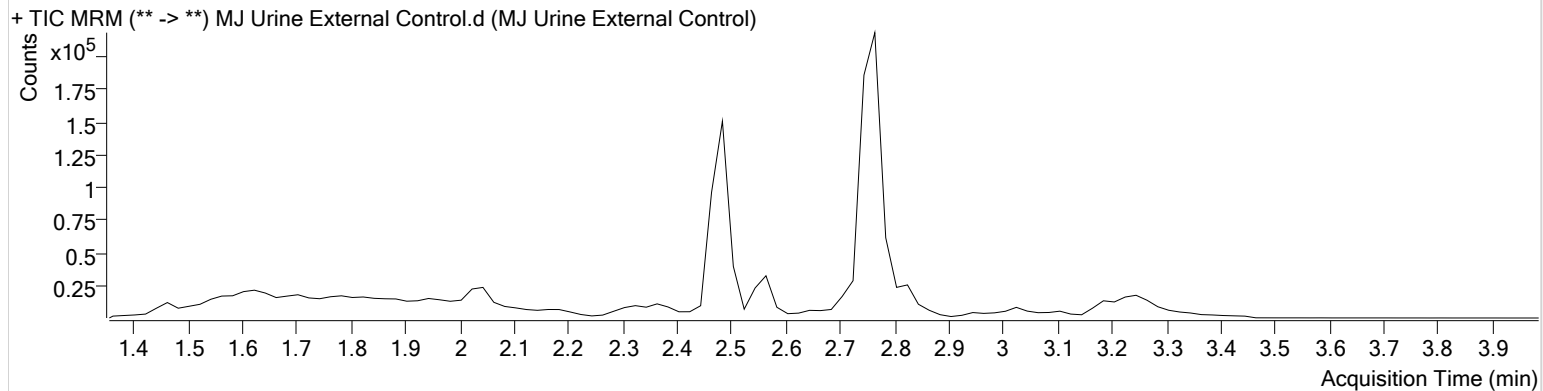


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Urine External Control.d
<b>Type</b>	Sample	<b>Sample</b>	MJ Urine External Control
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-C2	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 5:13:48 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



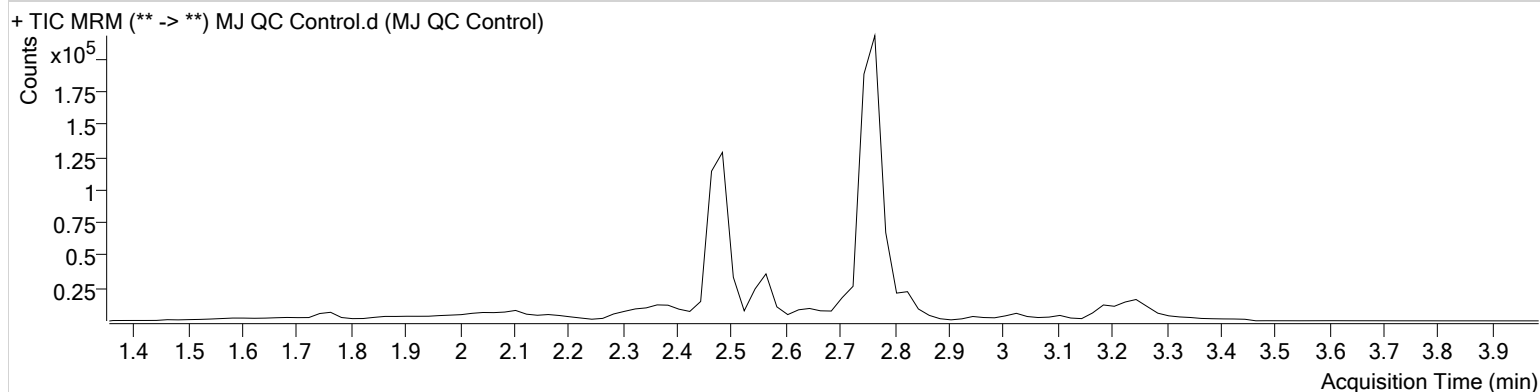
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	3833	55840	7.7742 ng/ml
THC-OH	2.491	30087	314238	9.0848 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ QC Control.d
<b>Type</b>	Sample	<b>Sample</b>	MJ QC Control
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:47:44 PM		

**Sample Chromatogram**

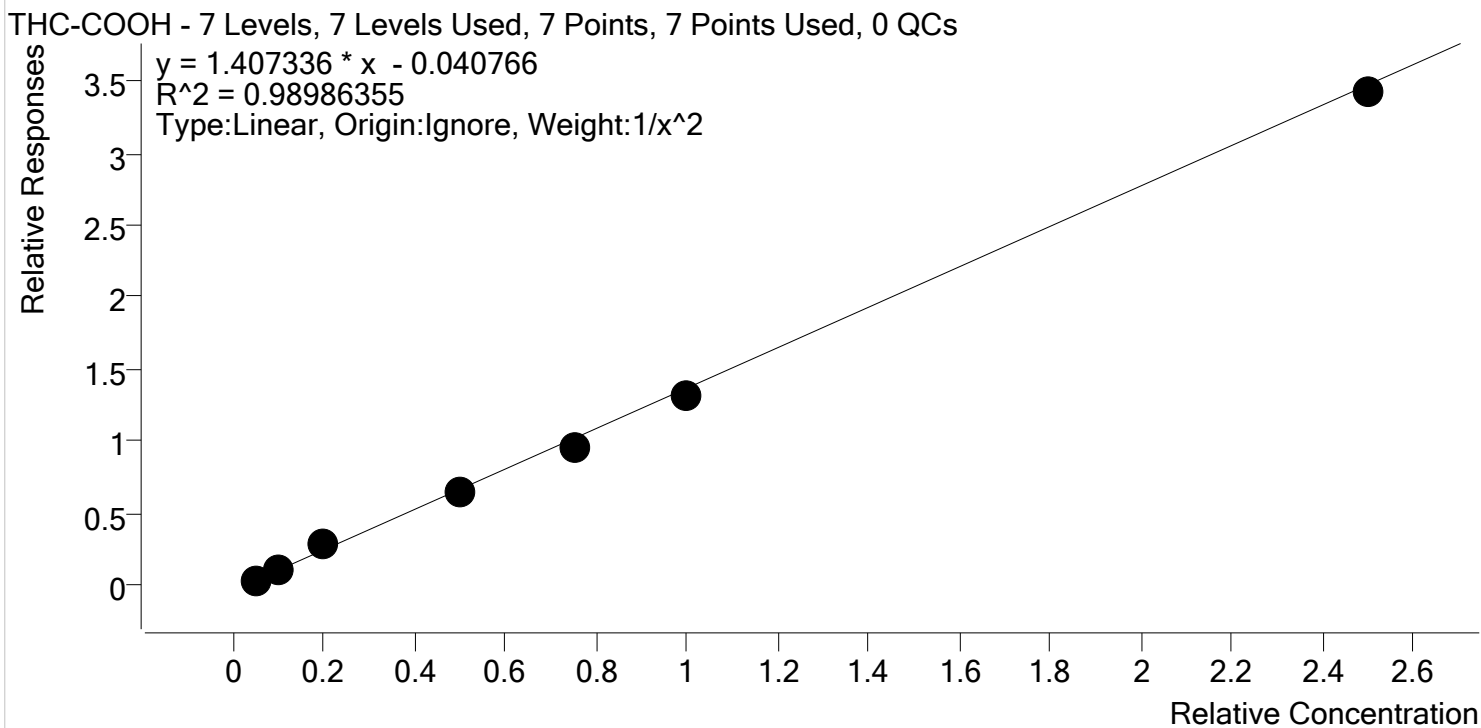


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	9215	47423	16.7035 ng/ml
THC-OH	2.491	20143	304562	6.4878 ng/ml



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Last Cal. Update** 11/7/2019 12:50 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-d9

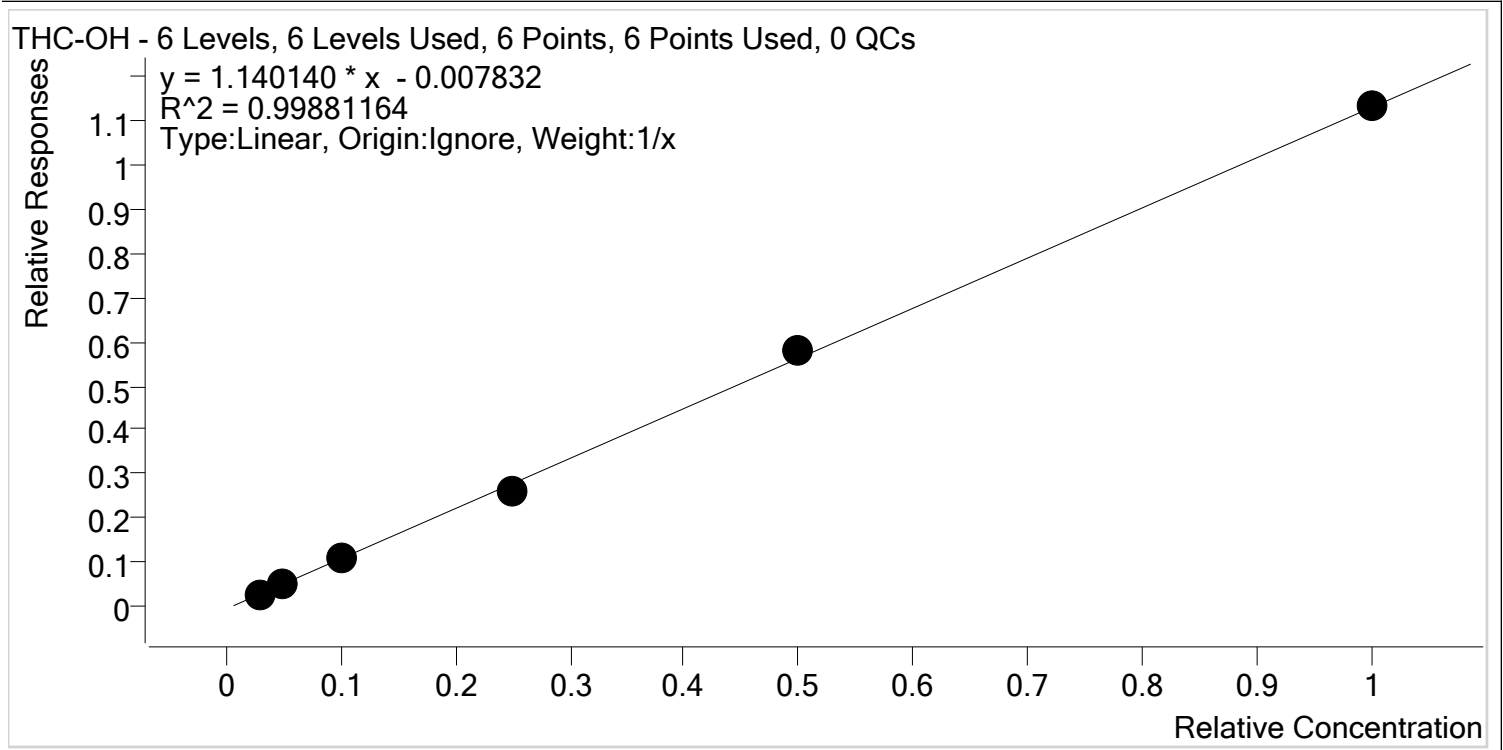


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	4.8	96.8
MJ Cal 2	2	✓	10.0	9.9	99.1
MJ Cal 3	3	✓	20.0	23.7	118.4
MJ Cal 4	4	✓	50.0	48.4	96.8
MJ Cal 5	5	✓	75.0	70.3	93.8
MJ Cal 6	6	✓	100.0	96.6	96.6
MJ Cal 7	7	✓	250.0	246.3	98.5



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Last Cal. Update** 11/7/2019 12:50 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-d3



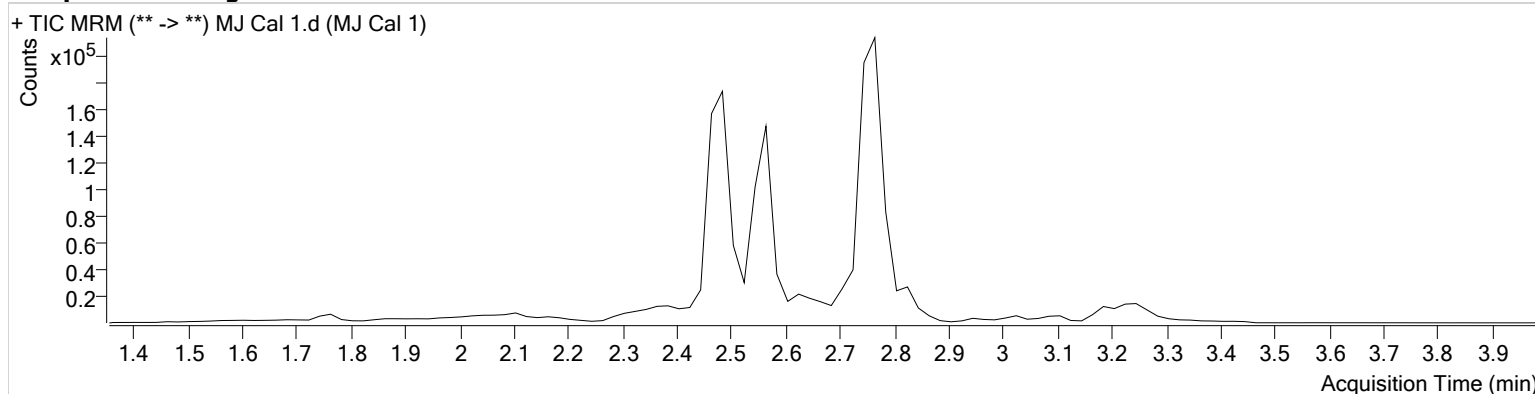
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 2	2	✓	3.0	2.9	98.3
MJ Cal 3	3	✓	5.0	5.3	106.2
MJ Cal 4	4	✓	10.0	10.0	99.6
MJ Cal 5	5	✓	25.0	23.3	93.2
MJ Cal 6	6	✓	50.0	51.3	102.6
MJ Cal 7	7	✓	100.0	100.2	100.2

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Cal 1.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 1
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-A1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:01:58 PM		

**Sample Chromatogram**



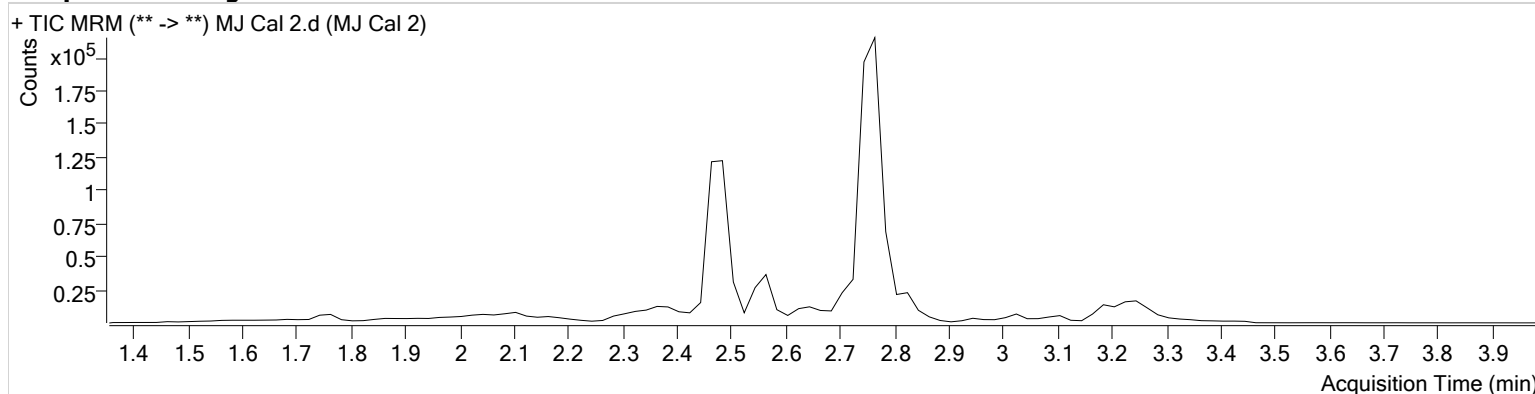
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.585	6756	247061	4.8396 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 2
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-B1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:08:39 PM		

**Sample Chromatogram**



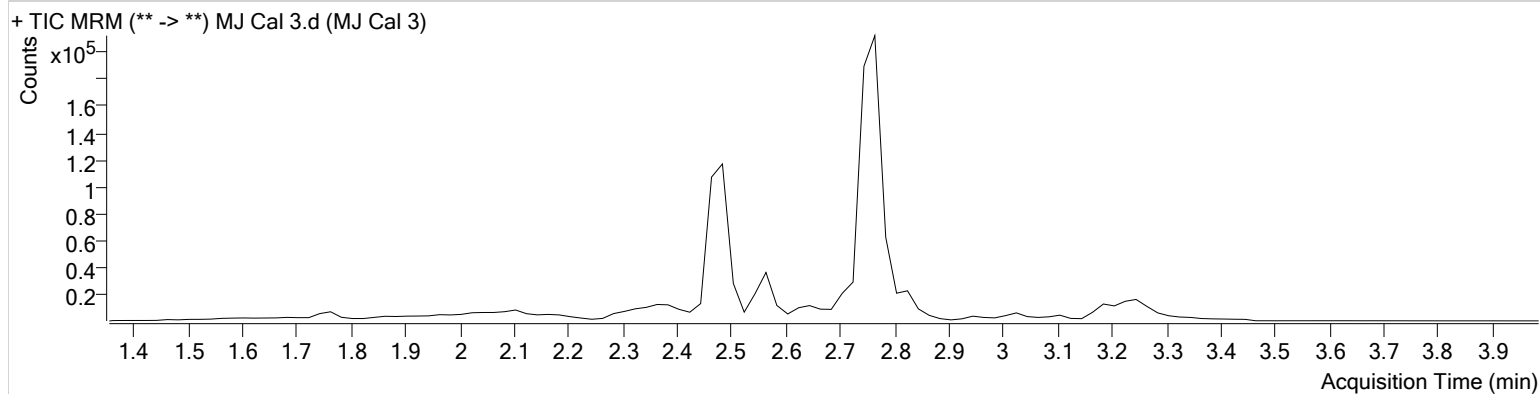
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	5549	56246	9.9074 ng/ml
THC-OH	2.491	8102	314267	2.9482 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 3
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-C1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:15:11 PM		

**Sample Chromatogram**



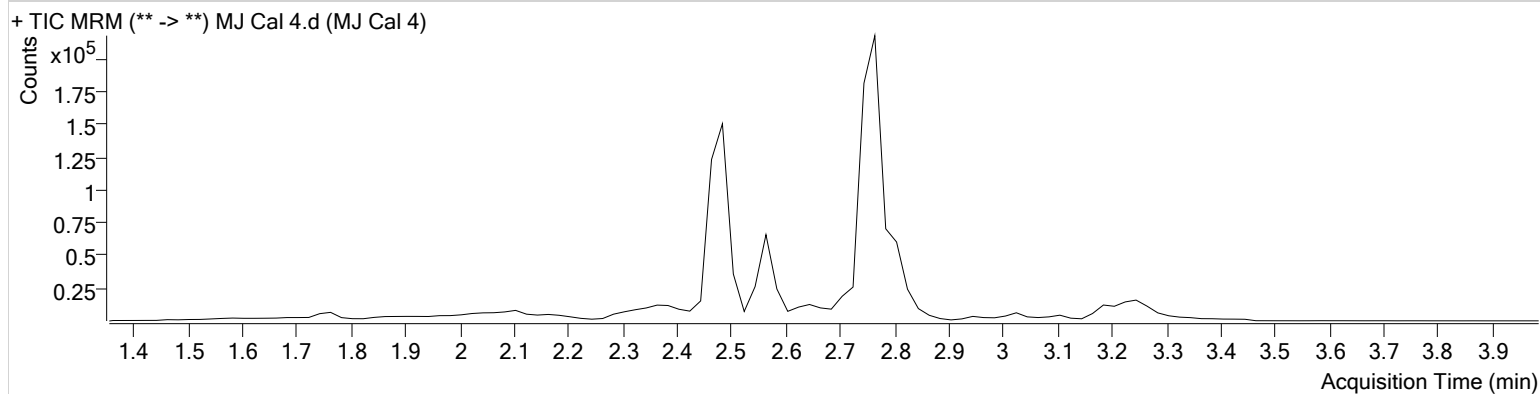
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	12277	41969	23.6833 ng/ml
THC-OH	2.491	14714	279267	5.3083 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 4
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-D1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:21:41 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	29822	46566	48.4029 ng/ml
THC-OH	2.491	34322	324700	9.9582 ng/ml

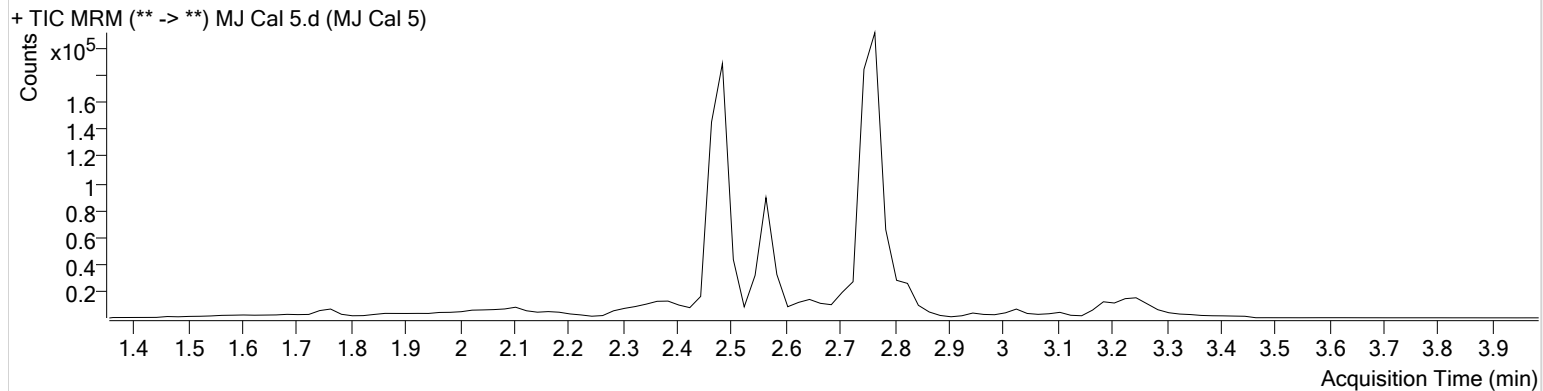


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 5
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-E1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:28:12 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



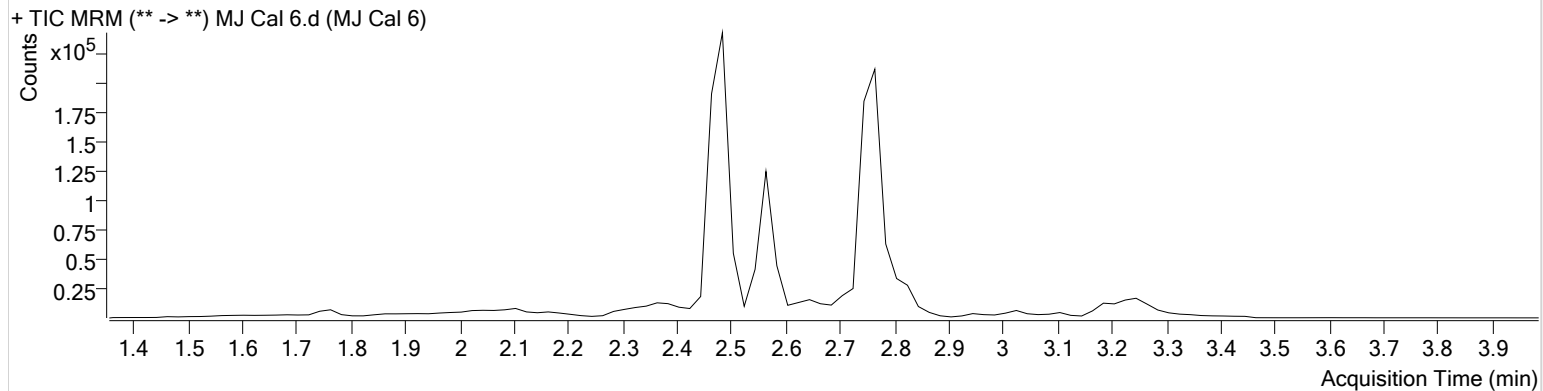
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	45274	47711	70.3237 ng/ml
THC-OH	2.491	87428	339056	23.3032 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Cal 6.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 6
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-F1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:34:43 PM		

## Sample Chromatogram



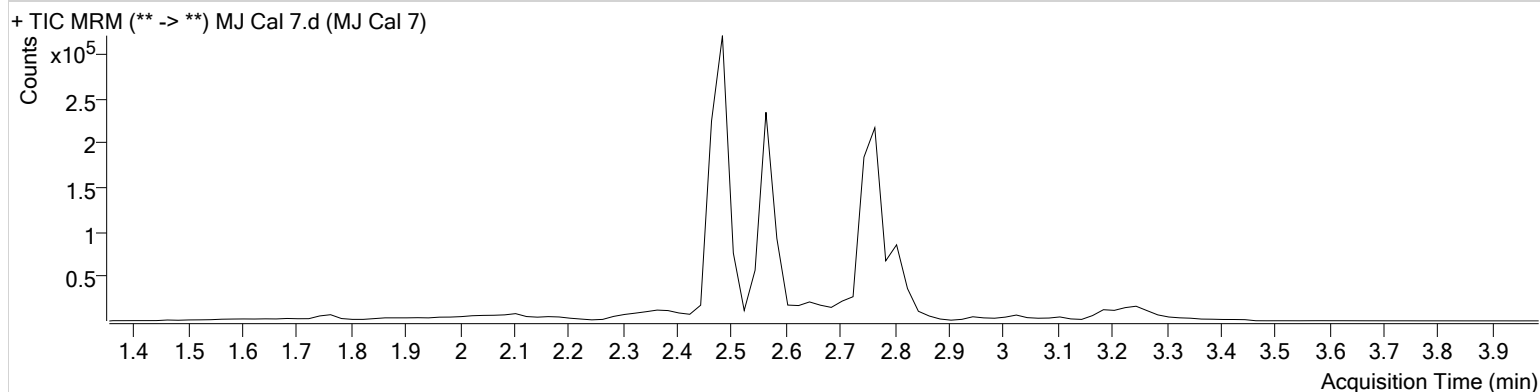
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	69199	52449	96.6453 ng/ml
THC-OH	2.491	203918	353469	51.2865 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2019\AM 25-26\110519 Combo Run CS\QuantResults\THCS-THC removed.batch.bin  
**Calibration Last Update** 11/8/2019 12:03:52 PM

<b>Instrument</b>	69679	<b>Data File</b>	MJ Cal 7.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 7
<b>Acq. Method</b>	am 26 test.m	<b>Operator</b>	
<b>Sample Position</b>	P3-G1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	11/5/2019 4:41:13 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-COOH	2.565	146599	42804	246.2545 ng/ml
THC-OH	2.491	364504	321279	100.1958 ng/ml