

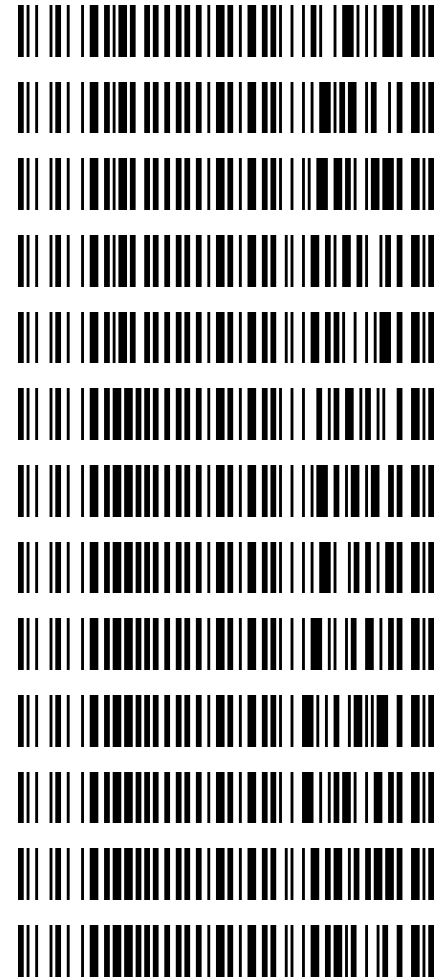
Worklist: 2385

reviewed 5/22/18

5/8/2018

B. Wylee D 15

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
M2018-1810	2	115289	AM 27 Blood THC Quant by LC-QQQ
M2018-1918	2	115290	AM 27 Blood THC Quant by LC-QQQ
M2018-1938	1	115291	AM 27 Blood THC Quant by LC-QQQ
M2018-2062	2	115292	AM 27 Blood THC Quant by LC-QQQ
M2018-2093	1	115293	AM 27 Blood THC Quant by LC-QQQ
P2018-1061	1	115294	AM 27 Blood THC Quant by LC-QQQ
P2018-1109	2	115295	AM 27 Blood THC Quant by LC-QQQ
P2018-1128	1	115296	AM 27 Blood THC Quant by LC-QQQ
P2018-1152	1	115297	AM 27 Blood THC Quant by LC-QQQ
P2018-1161	1	115298	AM 27 Blood THC Quant by LC-QQQ
P2018-1171	1	115299	AM 27 Blood THC Quant by LC-QQQ
P2018-1213	1	115300	AM 27 Blood THC Quant by LC-QQQ
P2018-1214	1	115301	AM 27 Blood THC Quant by LC-QQQ



TS S

5/8/2018

Worklist: 2383

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
P2018-0846	1	114752	AM 27 Blood THC Quant by LC-QQQ



AM# 27: Quantitation of THC and Metabolites in Blood by LC-MS/MS

Extraction Date: 05/09/18
Plate lot#: 0515037

Analyst: Sarah Pickle
Plate Expiration: 09/28/18

Mobile phase A: 0.1% Formic Acid in LCMS Water
MTBE
Mobile phase B: 0.1% Formic acid in Acetonitrile
LCMS Methanol Hexane
Blank Blood Lot: 361331-2
Column: UCT Selectra DA 100 x 2.1mm 3um
LCMS-QQQ ID: 59740

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.
- 3. Create worklist: Data Path: _____

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **1000µL blood (calibrated pipette) Pipette ID: 3382167** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **500µL 0.1% formic acid in water** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **800µL of blood+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.
Worklist path: 050918 THC Quant SP worklist 2385 Batch Name: 050918 THCQ SP wklist 2385
- 2. Make any necessary integration changes, Curve weighting of Linear 1/x with r² 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).
Ion ratios must be within +/- 20% of the averaged calibrators
- 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? Y / N
- 6. Enter QCs into control charting.
- 7. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *Curve Range Limited: THC-COOH 5-250*

AM# 27: Quantitation of THC and Metabolites in Blood by LC-MS/MS

Extraction Date: 05/09/2018
Plate lot#: 0515037

Analyst: Tamara Salazar
Plate Expiration: 09/28/18

Mobile phase A: 0.1% Formic Acid in LCMS Water
MTBE

Mobile phase B: 0.1% Formic acid in Acetonitrile
Hexane

Blank Blood Lot: 361331-2
LCMS-QQ ID: 59740

Column: UCT Selectra DA 100 x 2.1mm 3um

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.
- 3. Create worklist: Data Path: _____

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **1000µL blood (calibrated pipette)** Pipette ID: 3382167 in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 067105
- 4. Pipette **500µL 0.1% formic acid in water** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **800µL of blood+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.

Run was performed with Sarah Puckle acting as the primary analyst. I witnessed and approved of all steps performed in the method. -TS

Post-Analytic

- 1. Create batch and process data.
Worklist path: C50918 THC Quant SP worklist 2385 Batch Name: 050918 THCA SP worklist 2385
- 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).
Ion ratios must be within +/- 20% of the averaged calibrators
- 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? Y / N
- 6 Enter QCs into control charting.
- 7 Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Worklist 2383 - one sample that was not included in my original THC-Quant run. -TS

Curves Limited: THC-COOH 5-250

TS



Idaho State Police Forensic Services

AM #27 Quantitative Analysis of THC and Metabolites in Blood by LCMS-QQQ

Analyst: Sarah Pickle and Tamara Salazar
Extraction Date: 5/9/18
Worklist Number: 2385 and 2383

<i>Reagent</i>	<i>Lot Number</i>	<i>Expiration Date</i>	<i>Date in Service</i>	<i>Date Out of Service</i>	<i>Initials</i>
ToxBox THC/THC Metabolite Plate	0515037	09/28/18			
Negative Blood	361331-2		12/27/17		
Methanol External Control Solution	WS020718	02/07/19	02/07/18		
Blood External Control Solution	020718	02/07/19	02/07/18		
Methyl Tert-Butyl Ether (MTBE) 99.9%	A0375555		6/26/17		
Hexanes (ACS)	101642		10/26/17		
Methanol (LCMS Grade)	177145		4/11/18		
0.1% Formic Acid in Water (Mobile Phase A)	166541		6/26/17		
0.1% Formic Acid in Acetonitrile (Mobile Phase B)	176190		2/6/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	050718		05/07/18		

Methanol External Control Solution (Lot: WS020718)

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

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	172516	
THC	Cerilliant	FE04231406	04/30/2019
C-THC	Cayman	0497429	02/08/2019
THC-OH	Cerilliant	FE01121503	01/31/2020
Prepared:	02/07/18		
Prepared By:	Tamara Salazar		
Expires:	02/07/19		

Blood External Control Solution (Lot: 020718)

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

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	361331-2
Methanol External Control Solution		WS020718
Prepared:	02/07/18	
Prepared by:	Tamara Salazar	
Expires:	02/07/19	

TS S

AM #27: Quantitative Analysis of THC and Metabolites in Blood by LCMS-QQQ

Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 050718)

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	177528
Prepared:	05/07/18	
Prepared By:	Sarah Pickle	

TS \$

ISP FORENSICS - Pocatello Instrument # 59740

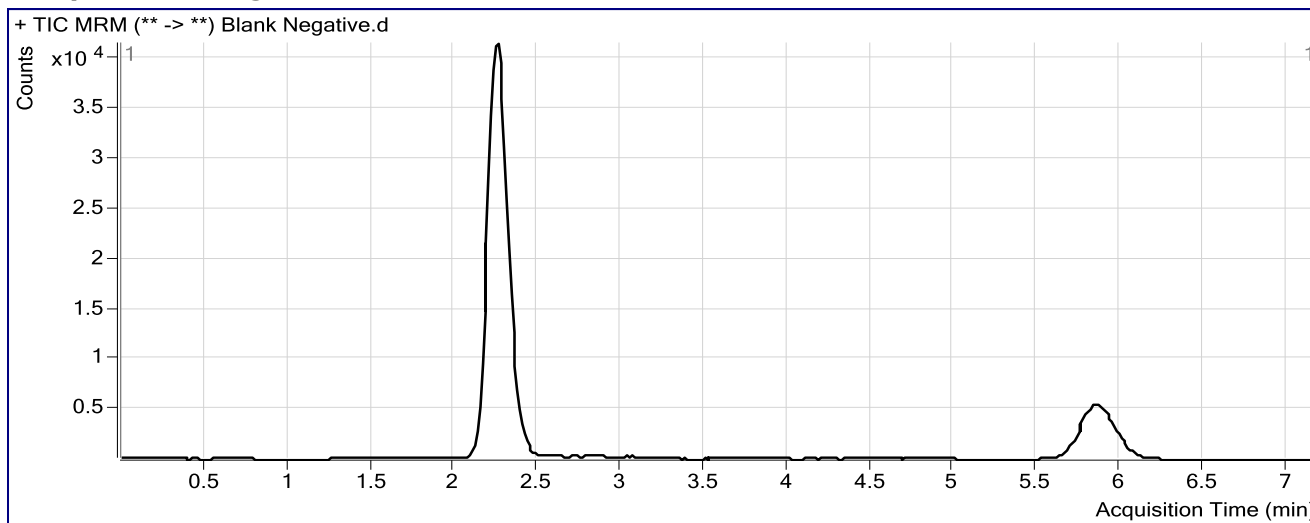
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISPUser
Report Time	5/10/2018 2:40 PM	Reporter Name	ISPUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 14:23	Data File	Blank Negative.d
Sample Type	Sample	Sample Name	Blank Negative
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	Vial 2	Sample Info	
Inj Vol	-1	Comment	

Sample Chromatogram



ISP FORENSICS - Pocatello Instrument # 59740

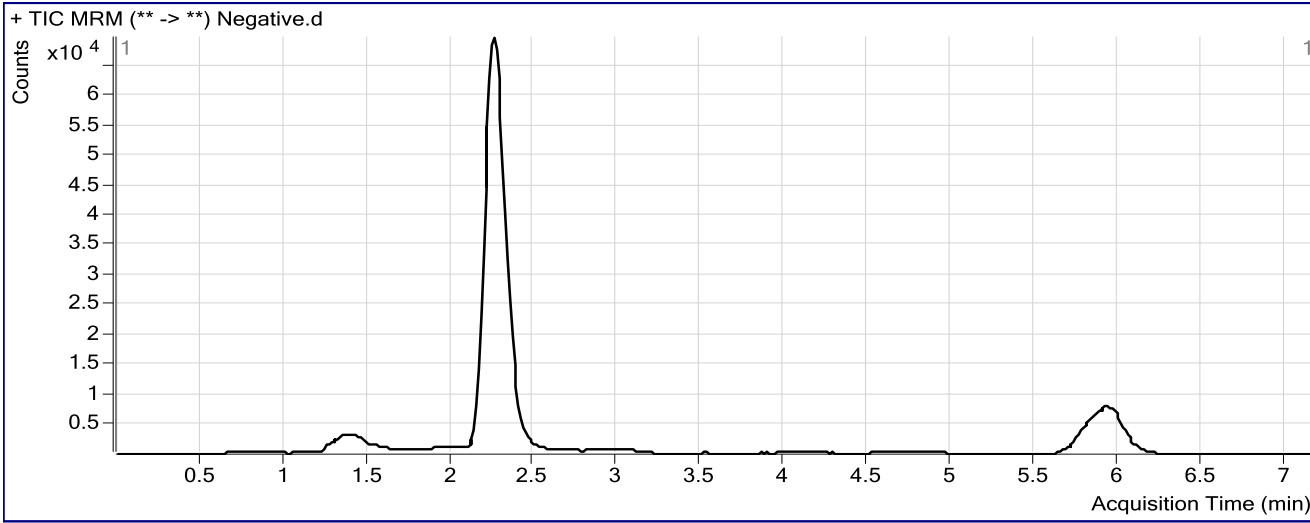
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISUser
Report Time	5/10/2018 2:40 PM	Reporter Name	ISUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 14:35	Data File	Negative.d
Sample Type	Sample	Sample Name	Negative
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	P1-A2	Sample Info	
Inj Vol	-1	Comment	Hemostat 361331-3

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.092	1670	476165	0.0035	0.8398
THC-COOH	THC-COOH-D9	2.312	5857	133889	0.0437	1.7801

TS S

ISP FORENSICS - Pocatello Instrument # 59740

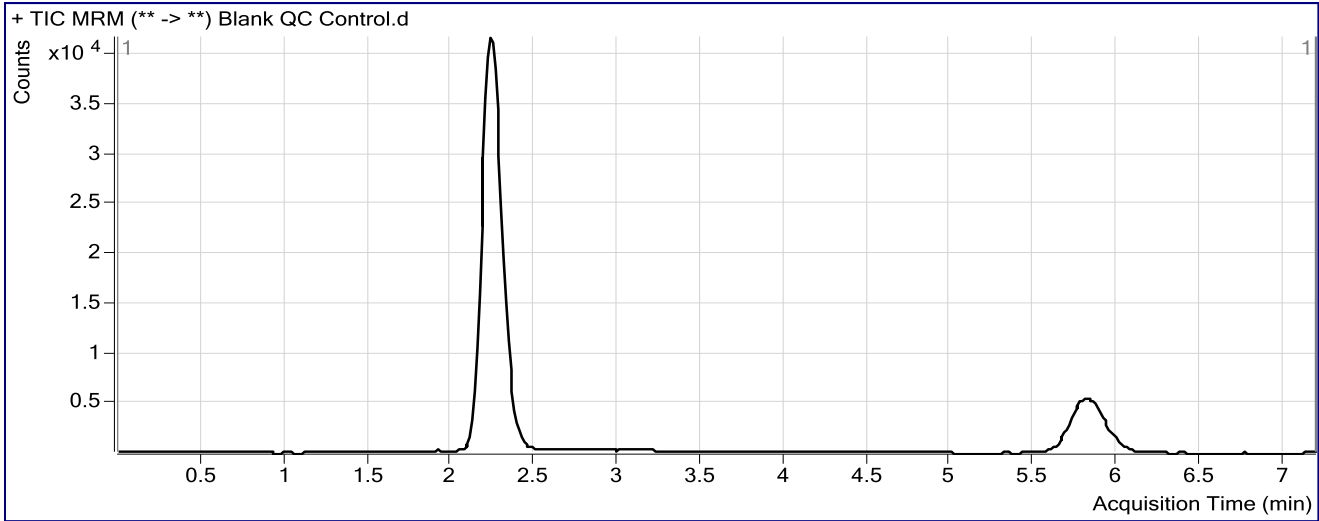
Cannabinoids Analysis Report

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918
Analysis Time 5/10/2018 2:38 PM **Analyst Name** ISPUser
Report Time 5/10/2018 2:40 PM **Reporter Name** ISPUser
Last Calib Update 5/10/2018 2:38 PM **Batch State** Processed

Analysis Info

Acq Time 2018-05-09 13:59 **Data File** Blank QC Control.d
Sample Type Sample **Sample Name** Blank QC Control
Dilution 1 **Acq Method** THC Quant 051517 workingmm.m
Position Vial 2 **Sample Info**
Inj Vol -1 **Comment**

Sample Chromatogram



TS S

ISP FORENSICS - Pocatello Instrument # 59740

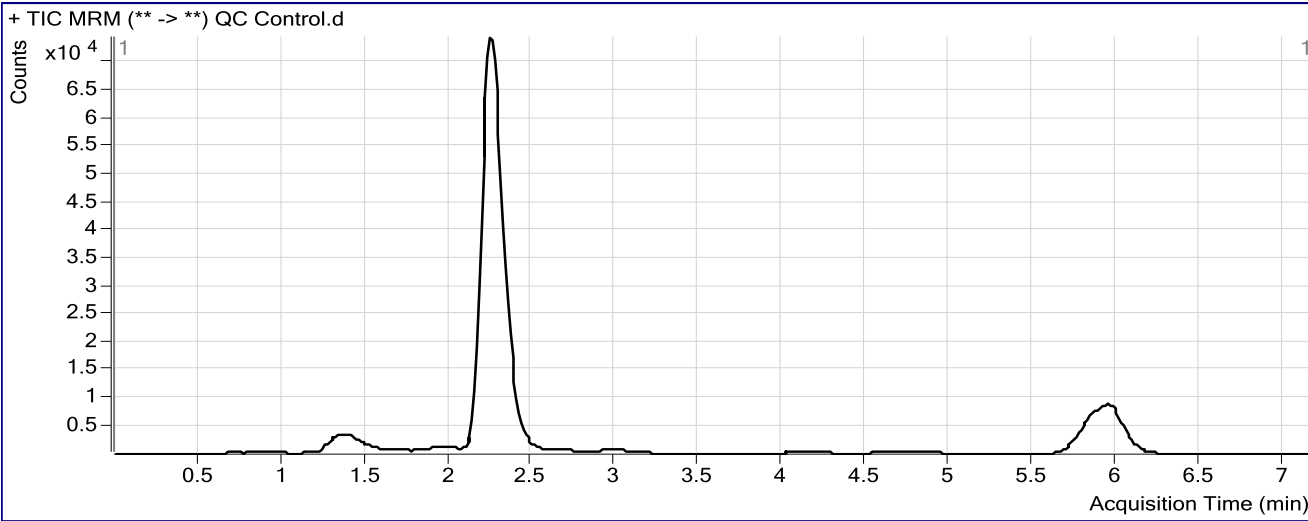
Cannabinoids Analysis Report

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w
Analysis Time 5/10/2018 2:38 PM **Analyst Name** ISPUser
Report Time 5/10/2018 2:40 PM **Reporter Name** ISPUser
Last Calib Update 5/10/2018 2:38 PM **Batch State** Processed

Analysis Info

Acq Time 2018-05-09 14:11 **Data File** QC Control.d
Sample Type Sample **Sample Name** QC Control
Dilution 1 **Acq Method** THC Quant 051517 workingmm.m
Position P1-H1 **Sample Info**
Inj Vol -1 **Comment**

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	48636	457197	0.1064	10.2373
THC-COOH	THC-COOH-D9	2.352	30826	124967	0.2467	10.7712
THC	THC-D3	5.959	13717	124376	0.1103	10.2910

TS S

ISP FORENSICS - Pocatello Instrument # 59740

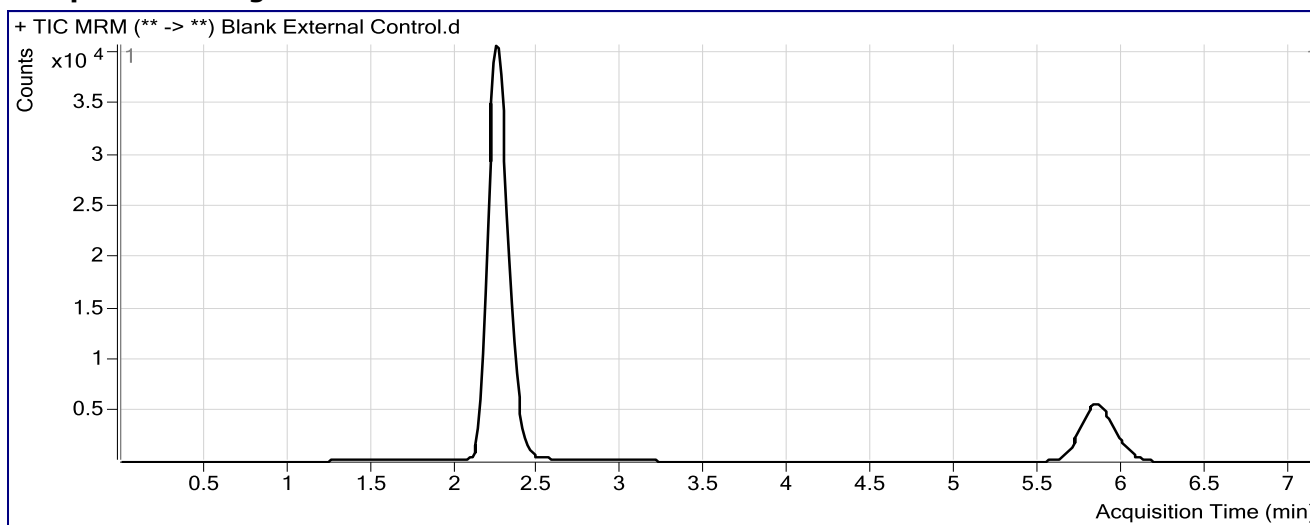
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISUser
Report Time	5/10/2018 2:40 PM	Reporter Name	ISUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 14:47	Data File	Blank External Control.d
Sample Type	Sample	Sample Name	Blank External Control
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	Vial 2	Sample Info	
Inj Vol	-1	Comment	

Sample Chromatogram



TS \$

ISP FORENSICS - Pocatello Instrument # 59740

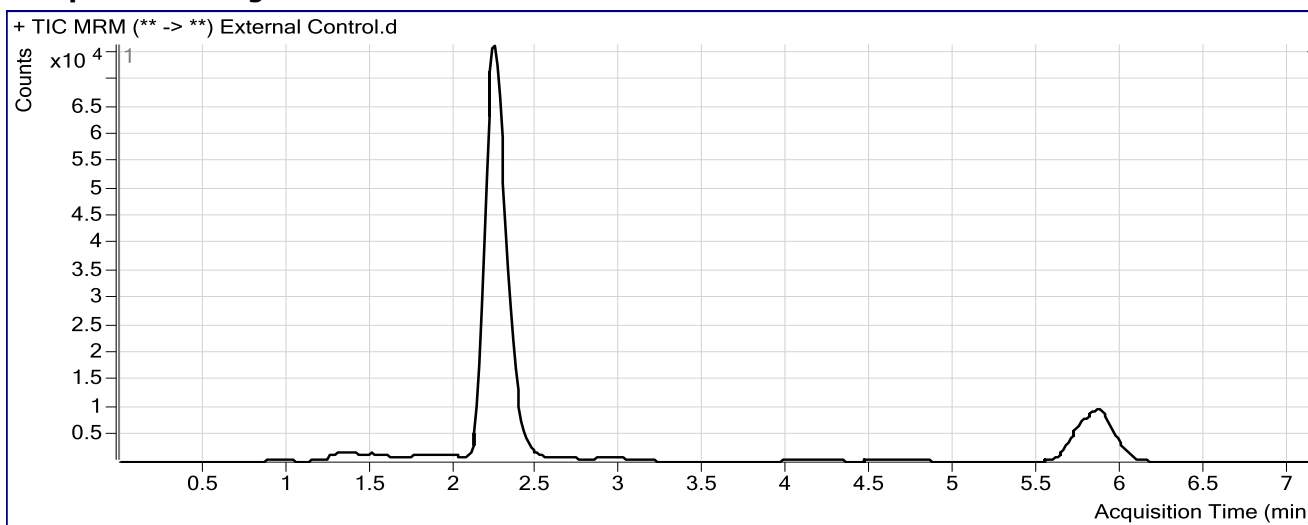
Cannabinoids Analysis Report

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w
Analysis Time 5/10/2018 2:38 PM **Analyst Name** ISPUser
Report Time 5/10/2018 2:40 PM **Reporter Name** ISPUser
Last Calib Update 5/10/2018 2:38 PM **Batch State** Processed

Analysis Info

Acq Time 2018-05-09 14:59 **Data File** External Control.d
Sample Type Sample **Sample Name** External Control
Dilution 1 **Acq Method** THC Quant 051517 workingmm.m
Position P1-B2 **Sample Info**
Inj Vol -1 **Comment** Hemostat 361331-3 + WS 020718

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	33049	483199	0.0684	6.7676
THC-COOH	THC-COOH-D9	2.339	26910	131248	0.2050	8.9262
THC	THC-D3	5.879	11798	137687	0.0857	8.0863

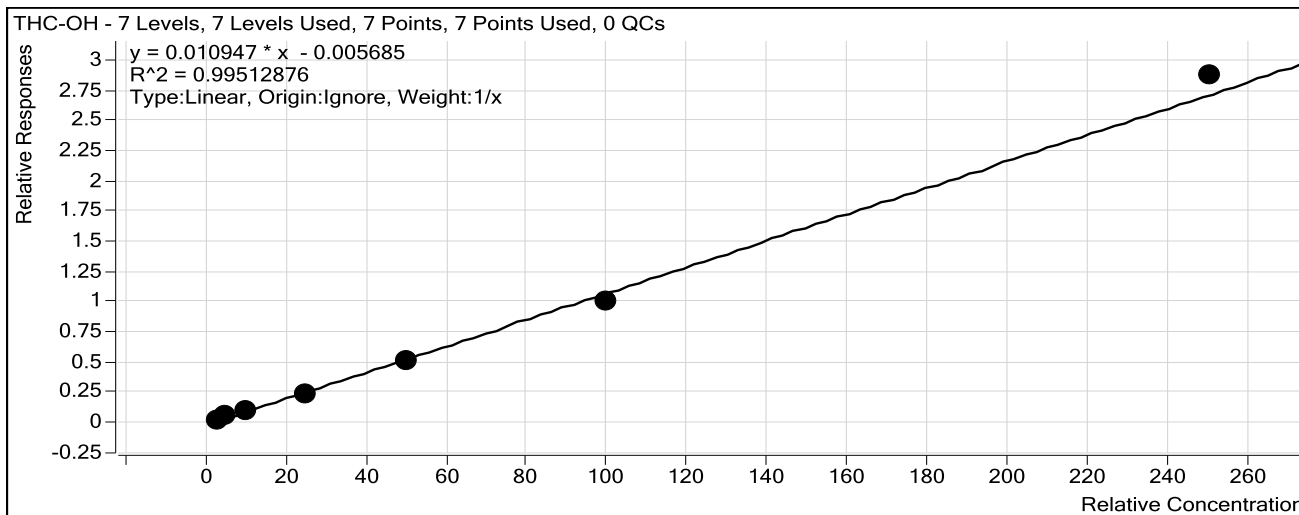
ISP Forensics Calibration Curve Report

TS
P

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist
2385\QuantResults\050918 THCQ SP wklst 2385.batch.bin

Last Calib Update 5/10/2018 2:38 PM **Analyst Name** ISP TOX

Target Compound *THC-OH*
Internal Standard *THC-OH-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Cal 1	1	<input checked="" type="checkbox"/>	3	3.3	108.6
Cal 2	2	<input checked="" type="checkbox"/>	5	5.6	111.3
Cal 3	3	<input checked="" type="checkbox"/>	10	9.9	99.0
Cal 4	4	<input checked="" type="checkbox"/>	25	22.6	90.6
Cal 5	5	<input checked="" type="checkbox"/>	50	46.7	93.4
Cal 6	6	<input checked="" type="checkbox"/>	100	92.0	92.0
Cal 7	7	<input checked="" type="checkbox"/>	250	262.9	105.2

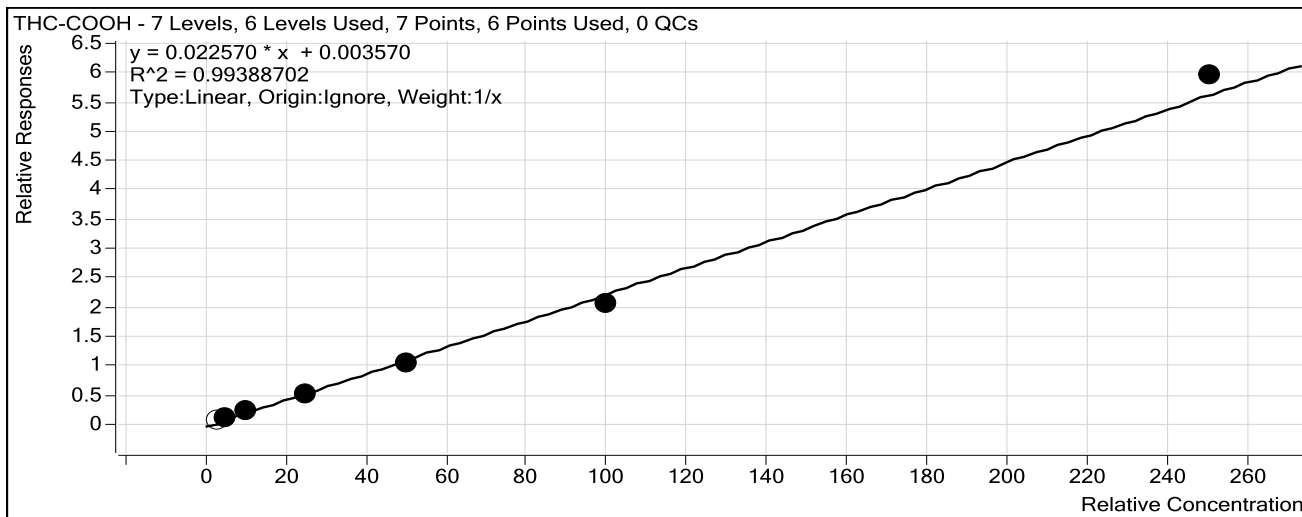
ISP Forensics Calibration Curve Report

TS
S

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist
2385\QuantResults\050918 THCQ SP wklst 2385.batch.bin

Last Calib Update 5/10/2018 2:38 PM **Analyst Name** ISP TOX

Target Compound *THC-COOH*
Internal Standard *THC-COOH-D9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Cal 1	1	<input type="checkbox"/>	3	4.2	141.5
Cal 2	2	<input checked="" type="checkbox"/>	5	6.0	119.0
Cal 3	3	<input checked="" type="checkbox"/>	10	10.0	99.7
Cal 4	4	<input checked="" type="checkbox"/>	25	23.1	92.4
Cal 5	5	<input checked="" type="checkbox"/>	50	45.9	91.9
Cal 6	6	<input checked="" type="checkbox"/>	100	91.5	91.5
Cal 7	7	<input checked="" type="checkbox"/>	250	263.5	105.4

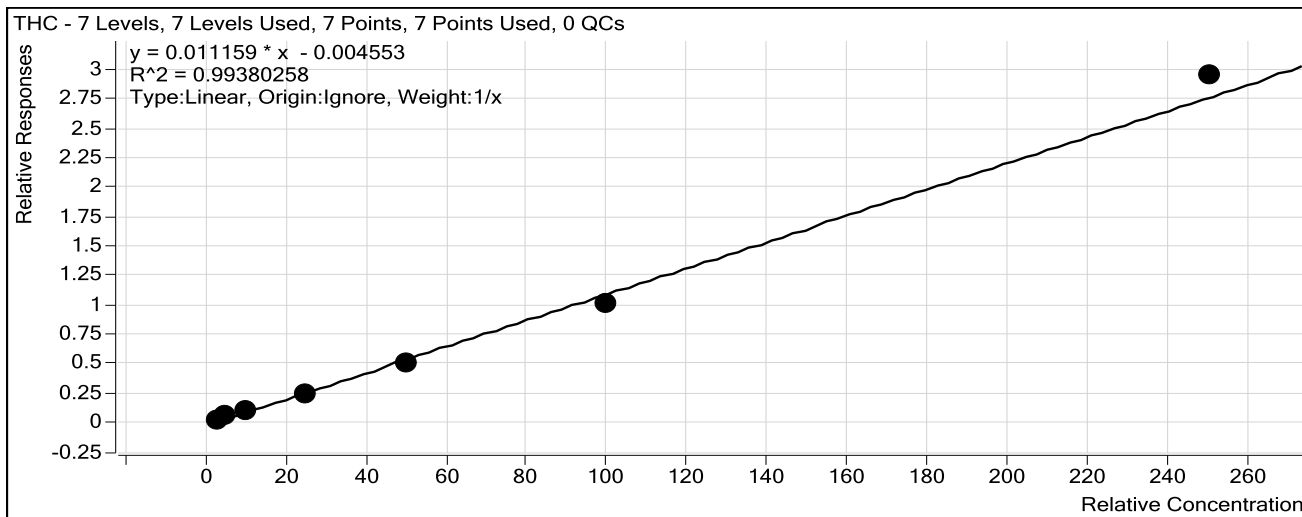
ISP Forensics Calibration Curve Report

TS
S

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist
2385\QuantResults\050918 THCQ SP wklst 2385.batch.bin

Last Calib Update 5/10/2018 2:38 PM **Analyst Name** ISP TOX

Target Compound *THC*
Internal Standard *THC-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Cal 1	1	<input checked="" type="checkbox"/>	3	3.3	111.3
Cal 2	2	<input checked="" type="checkbox"/>	5	5.4	108.1
Cal 3	3	<input checked="" type="checkbox"/>	10	10.0	100.0
Cal 4	4	<input checked="" type="checkbox"/>	25	23.3	93.0
Cal 5	5	<input checked="" type="checkbox"/>	50	45.4	90.8
Cal 6	6	<input checked="" type="checkbox"/>	100	90.8	90.8
Cal 7	7	<input checked="" type="checkbox"/>	250	264.8	105.9

ISP FORENSICS - Pocatello Instrument # 59740

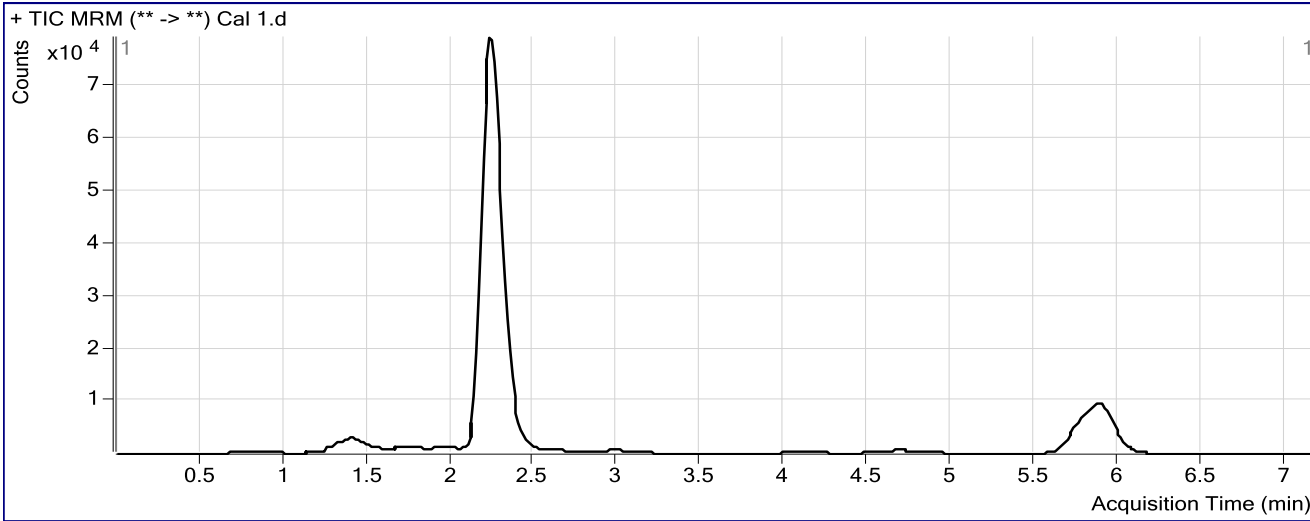
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISPUser
Report Time	5/10/2018 2:39 PM	Reporter Name	ISPUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 12:37	Data File	Cal 1.d
Sample Type	Calibration	Sample Name	Cal 1
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	P1-A1	Sample Info	
Inj Vol	-1	Comment	

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	15529	518112	0.0300	3.2574
THC-COOH	THC-COOH-D9	2.339	14183	142730	0.0994	4.2447
THC	THC-D3	5.905	4495	137428	0.0327	3.3389

ISP FORENSICS - Pocatello Instrument # 59740

Cannabinoids Analysis Report

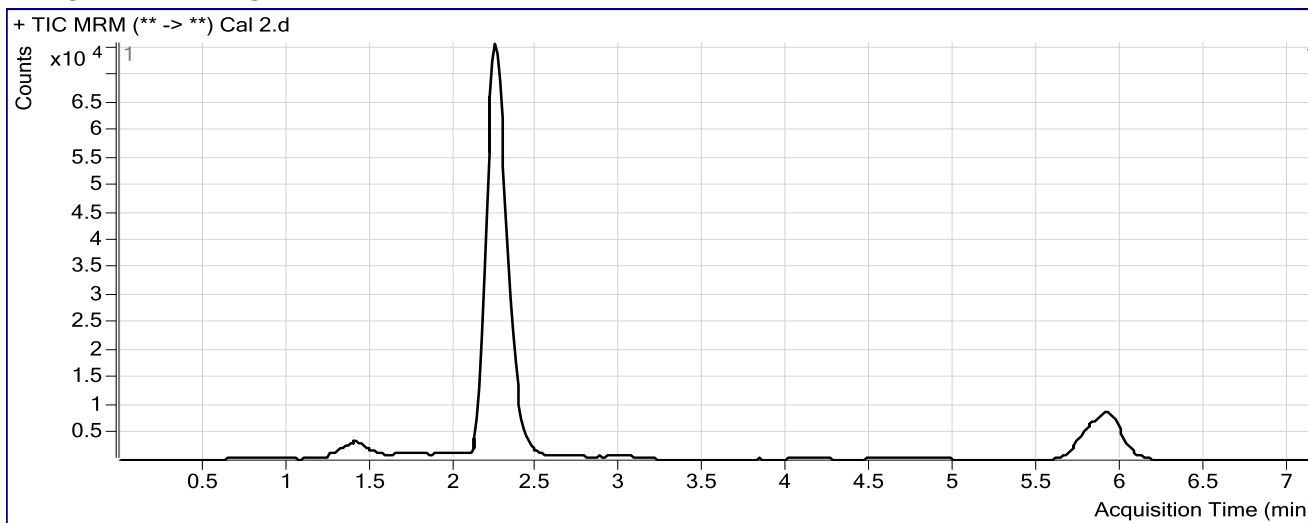
TS S

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w
Analysis Time 5/10/2018 2:38 PM **Analyst Name** ISPUser
Report Time 5/10/2018 2:39 PM **Reporter Name** ISPUser
Last Calib Update 5/10/2018 2:38 PM **Batch State** Processed

Analysis Info

Acq Time 2018-05-09 12:48 **Data File** Cal 2.d
Sample Type Calibration **Sample Name** Cal 2
Dilution 1 **Acq Method** THC Quant 051517 workingmm.m
Position P1-B1 **Sample Info**
Inj Vol -1 **Comment**

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	26717	483787	0.0552	5.5642
THC-COOH	THC-COOH-D9	2.339	17964	130254	0.1379	5.9524
THC	THC-D3	5.905	6690	119998	0.0558	5.4040

ISP FORENSICS - Pocatello Instrument # 59740

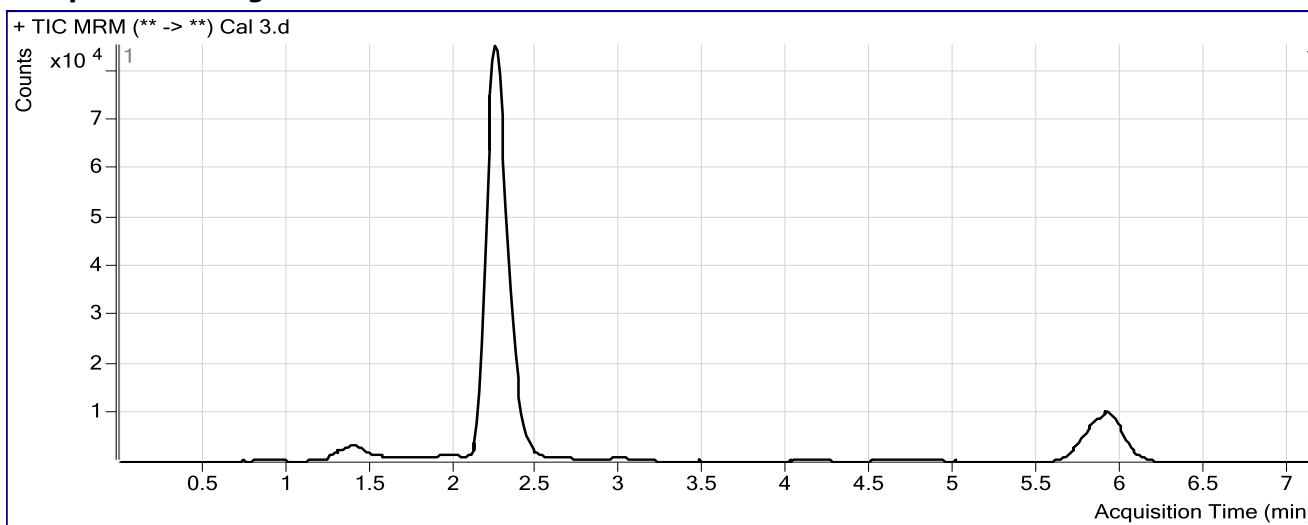
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISPUser
Report Time	5/10/2018 2:39 PM	Reporter Name	ISPUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 13:00	Data File	Cal 3.d
Sample Type	Calibration	Sample Name	Cal 3
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	P1-C1	Sample Info	
Inj Vol	-1	Comment	

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	53707	523150	0.1027	9.8976
THC-COOH	THC-COOH-D9	2.352	32183	140733	0.2287	9.9739
THC	THC-D3	5.932	14117	131822	0.1071	10.0049

ISP FORENSICS - Pocatello Instrument # 59740

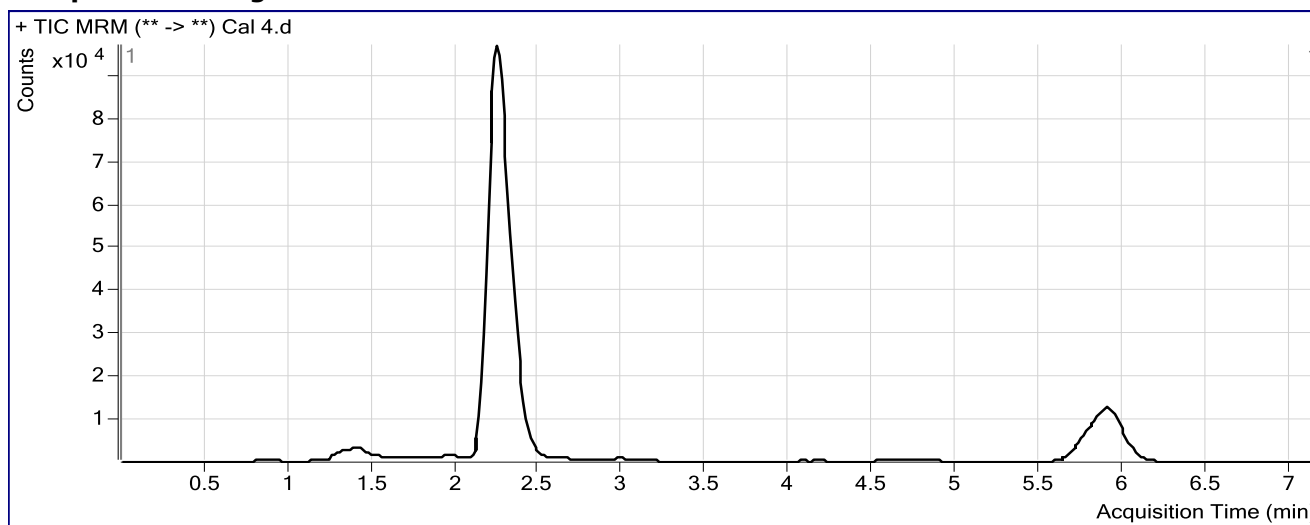
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISUser
Report Time	5/10/2018 2:39 PM	Reporter Name	ISUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 13:12	Data File	Cal 4.d
Sample Type	Calibration	Sample Name	Cal 4
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	P1-D1	Sample Info	
Inj Vol	-1	Comment	

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	127021	524551	0.2422	22.6404
THC-COOH	THC-COOH-D9	2.352	73353	139695	0.5251	23.1071
THC	THC-D3	5.919	34343	134670	0.2550	23.2606

ISP FORENSICS - Pocatello Instrument # 59740

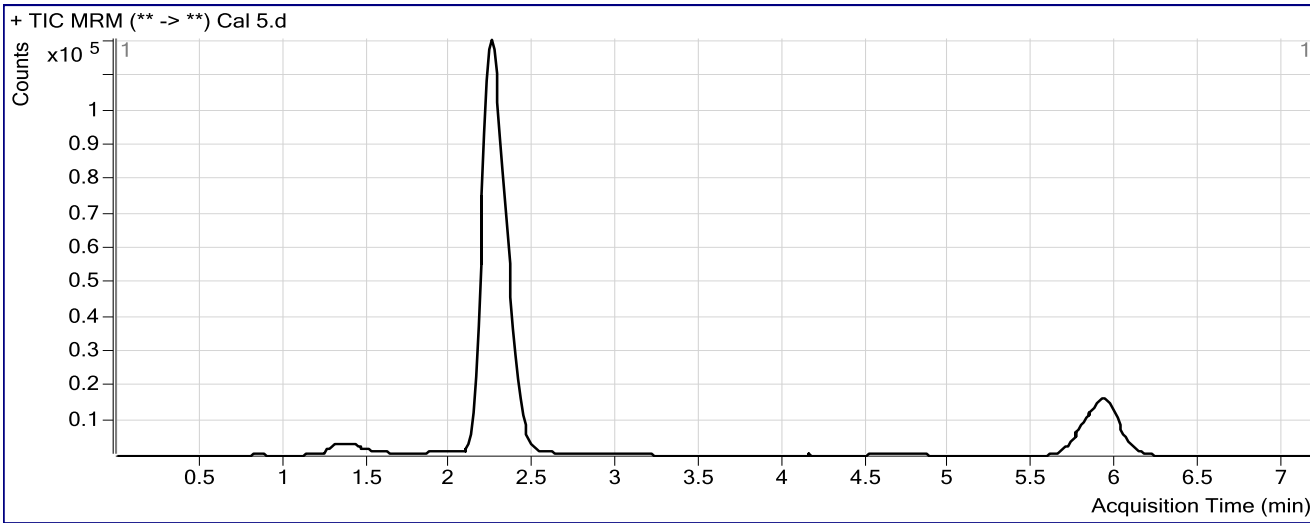
Cannabinoids Analysis Report

Batch Data Path C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w
Analysis Time 5/10/2018 2:38 PM **Analyst Name** ISPUser
Report Time 5/10/2018 2:39 PM **Reporter Name** ISPUser
Last Calib Update 5/10/2018 2:38 PM **Batch State** Processed

Analysis Info

Acq Time 2018-05-09 13:24 **Data File** Cal 5.d
Sample Type Calibration **Sample Name** Cal 5
Dilution 1 **Acq Method** THC Quant 051517 workingmm.m
Position P1-E1 **Sample Info**
Inj Vol -1 **Comment**

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	269380	532820	0.5056	46.7047
THC-COOH	THC-COOH-D9	2.339	147586	141834	1.0406	45.9457
THC	THC-D3	5.932	71573	142539	0.5021	45.4044

TS S

ISP FORENSICS - Pocatello Instrument # 59740

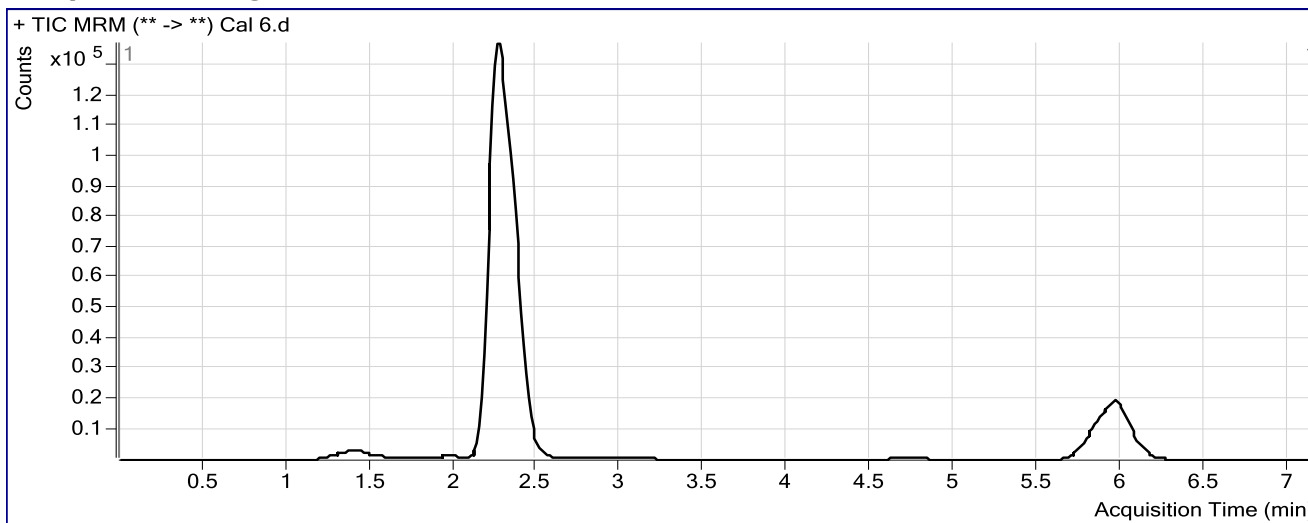
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISPUser
Report Time	5/10/2018 2:39 PM	Reporter Name	ISPUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 13:36	Data File	Cal 6.d
Sample Type	Calibration	Sample Name	Cal 6
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	P1-F1	Sample Info	
Inj Vol	-1	Comment	

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	456723	455957	1.0017	92.0251
THC-COOH	THC-COOH-D9	2.365	245643	118774	2.0682	91.4751
THC	THC-D3	5.972	117274	116240	1.0089	90.8160

TS S

ISP FORENSICS - Pocatello Instrument # 59740

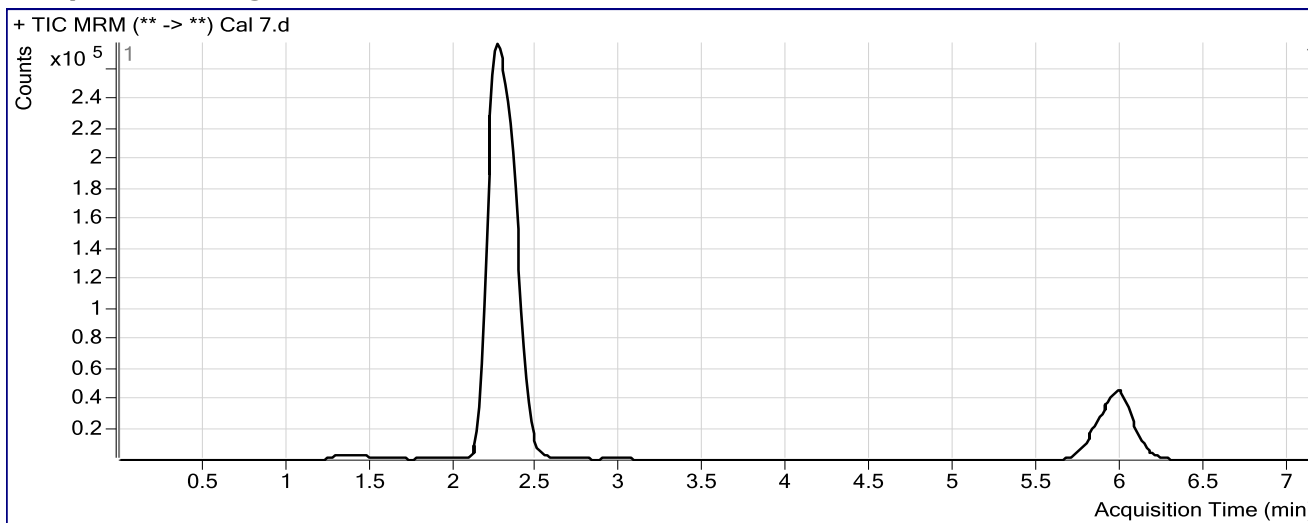
Cannabinoids Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\THC Quant\050918 THC Quant SP worklist 2385\QuantResults\050918 THCQ SP w		
Analysis Time	5/10/2018 2:38 PM	Analyst Name	ISPUser
Report Time	5/10/2018 2:40 PM	Reporter Name	ISPUser
Last Calib Update	5/10/2018 2:38 PM	Batch State	Processed

Analysis Info

Acq Time	2018-05-09 13:48	Data File	Cal 7.d
Sample Type	Calibration	Sample Name	Cal 7
Dilution	1	Acq Method	THC Quant 051517 workingmm.m
Position	P1-G1	Sample Info	
Inj Vol	-1	Comment	

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	1354510	471576	2.8723	262.9107
THC-COOH	THC-COOH-D9	2.352	695096	116788	5.9518	263.5458
THC	THC-D3	5.985	366351	124182	2.9501	264.7713