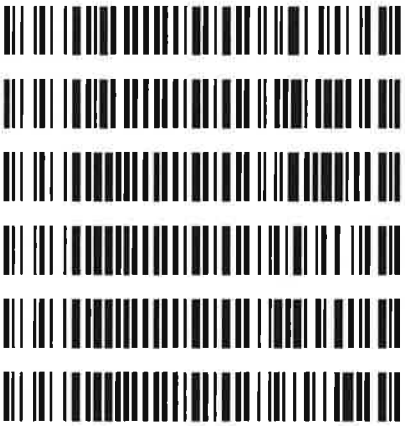
reviewed 7/12/18 amn

6/27/2018

**Worklist: 2528**

| LAB_CASE | ITEM | TASK_ID | DESCRIPTION |
|---|---|---|---|
| M2018-2829 | 1 | 119889 | AM 27 Blood THC Quant by LC-QQQ |
| M2018-2959 | 1 | 119890 | AM 27 Blood THC Quant by LC-QQQ |
| P2018-1639 | 1 | 119895 | AM 27 Blood THC Quant by LC-QQQ |
| P2018-1744 | 1 | 119892 | AM 27 Blood THC Quant by LC-QQQ |
| P2018-1757 | 1 | 119893 | AM 27 Blood THC Quant by LC-QQQ |
| P2018-1835 | 1 | 119894 | AM 27 Blood THC Quant by LC-QQQ |



TS

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

Extraction Date: 06/28/18 Analyst: Tamara Salazar
Plate lot#: 0515037 Plate Expiration: 09/28/18

**Mobile phase A**: 0.1% Formic Acid in LCMS Water **Mobile phase B:** 0.1% Formic acid in Acetonitrile
MTBE LCMS Methanol Hexane
**Blank Blood Lot**: 361331-1 **Column**: UCT Selectra DA 100 x 2.1mm 3um
**Blank Urine:** POC062718
**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: _____

## Urine Hydrolysis:

☒ 1. Pipette 1.5 mL urine into empty 48 well plate.
☒ 2. Add 250ul 1N KOH to urine samples.
☒ 2. Place on shaking incubator at 40 degrees for 15 mins.

## Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Pipette **1000µL blood/urine (calibrated pipette) Pipette ID: 27** 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 for blood samples. Pipette **500ul saturated phosphate buffer** for urine samples.
☒ 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: C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528
Batch Name: 062818 THCQ TS Worklist 2528
☒ 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.

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☒ 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:

Curves limited: THC-COOH 5-250 - 15

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# Idaho State Police Forensic Services

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

**Analyst: Tamara Salazar**
**Extraction Date: 06/28/18**
**Worklist Number: 2528**

| *Reagent* | *Lot Number* | *Expiration Date* | *Date in Service* | *Date Out of Service* | *Initials* |
|---|---|---|---|---|---|
| ToxBox THC/THC Metabolite Plate | 0515037 | 09/28/18 | | | |
| Negative Blood | 361331-1 | | 05/25/18 | | |
| Negative Urine | POC062718 | | 06/27/18 | | |
| Methanol External Control Solution | WS020718 | 02/07/19 | 02/07/18 | | |
| Blood External Control Solution | 061718 | 06/17/19 | 06/17/18 | | |
| Urine External Controls | 062818 | 06/28/19 | 06/28/18 | | |
| Methyl Tert-Butyl Ether (MTBE) 99.9% | A0375555 | | 06/26/17 | | |
| Hexanes (ACS) | 101642 | | 10/26/17 | | |
| Methanol (LCMS Grade) | 177145 | | 04/11/18 | | |
| 1 N KOH | 091817 | | 09/18/18 | | |
| Saturated Phosphate Buffer pH 1.8 | 020118 | | 02/01/18 | | |
| 0.1% Formic Acid in Water (Mobile Phase A) | 166541 | | 06/26/17 | | |
| 0.1% Formic Acid in Acetonitrile (Mobile Phase B) | 176190 | | 02/06/18 | | |
| Needle Rinse--75% LCMS MeOH in LCMS Water | 052918 | | 05/29/18 | | |

**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*

| *Component* | *Source* | *Source Lot Number* | *Expiration Date* |
|---|---|---|---|
| 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: ~~0261718~~ 061718)** TS
*100 ul of methanol external control solution was added to 9900 ul of blood.*

| *Component* | *Source* | *Source Lot Number* |
|---|---|---|
| Negative Blood | Hemostat | 361331-1 |
| Methanol External Control Solution | | WS020718 |

| | |
|---|---|
| Prepared: | 06/17/18 |
| Prepared by: | Tamara Salazar |
| Expires: | 06/17/19 |

**Urine External Control Solutions (Lot: 062818)**

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

Three controls were made by adding 50ul, 100ul, and 200ul of methanol external control to 4.5mL of negative urine.

| *Component* | *Source* | *Source Lot Number* |
|---|---|---|
| Negative ~~Blood~~ Urine | | POC062718 |
| Methanol External Control Solution | | WS020718 |
| Prepared: | 06/28/18 | |
| Prepared by: | Sarah Pickle | |
| Expires: | 06/28/19 | |

**1 N KOH (Lot: 091817 )**

| *Component* | *Source* | *Source Lot Number* |
|---|---|---|
| Potassium Hydroxide | Fisher | 034727 |
| DI Water | - | - |
| Prepared: | 09/18/17 | |
| Prepared By: | Celena Shrum | |

**Saturated Phosphate Buffer pH 1.8 (Lot: 020118 )**

| *Component* | *Source* | *Source Lot Number* |
|---|---|---|
| Potassium Phosphate monobasic | Fisher | L10-021-61 |
| DI Water | - | - |
| Prepared: | 02/01/18 | |
| Prepared By: | Celena Shrum | |

**Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 052918 )**

| *Component* | *Source* | *Source Lot Number* |
|---|---|---|
| MeOH (LCMS Grade) | Fisher | 177145 |
| Water (LCMS Grade) | Fisher | 177528 |
| Prepared: | 05/29/18 | |
| Prepared By: | Tamara Salazar | |

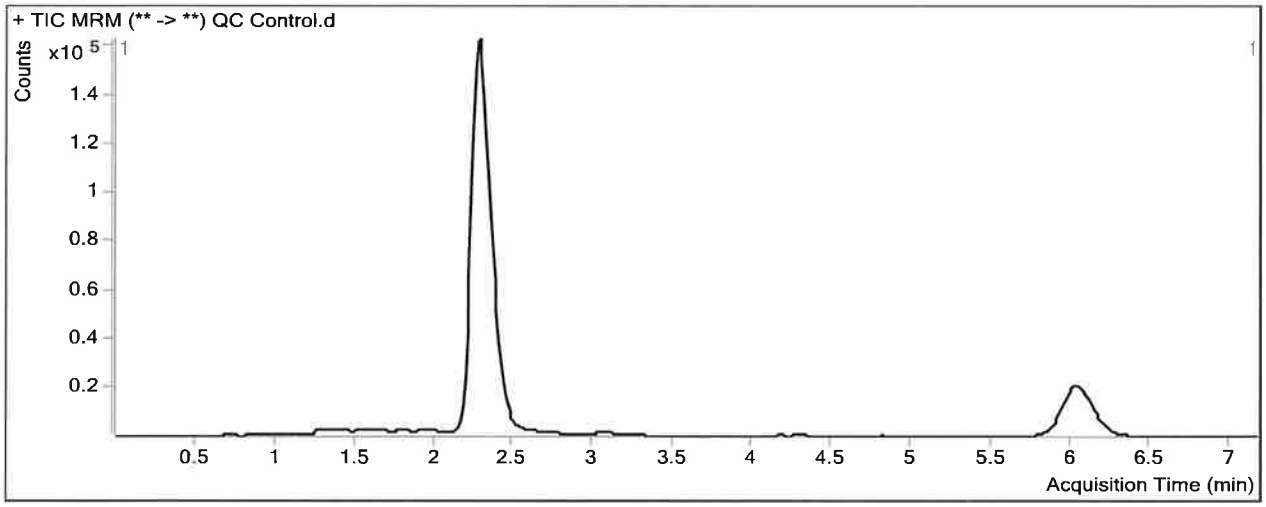
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 13:55 | **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 | 2.292 | 106155 | 934193 | 0.1136 | 9.6357 |
| THC-COOH | THC-COOH-D9 | 2.392 | 72669 | 256820 | 0.2830 | 10.2043 |
| THC | THC-D3 | 6.079 | 29751 | 241626 | 0.1231 | 9.8262 |

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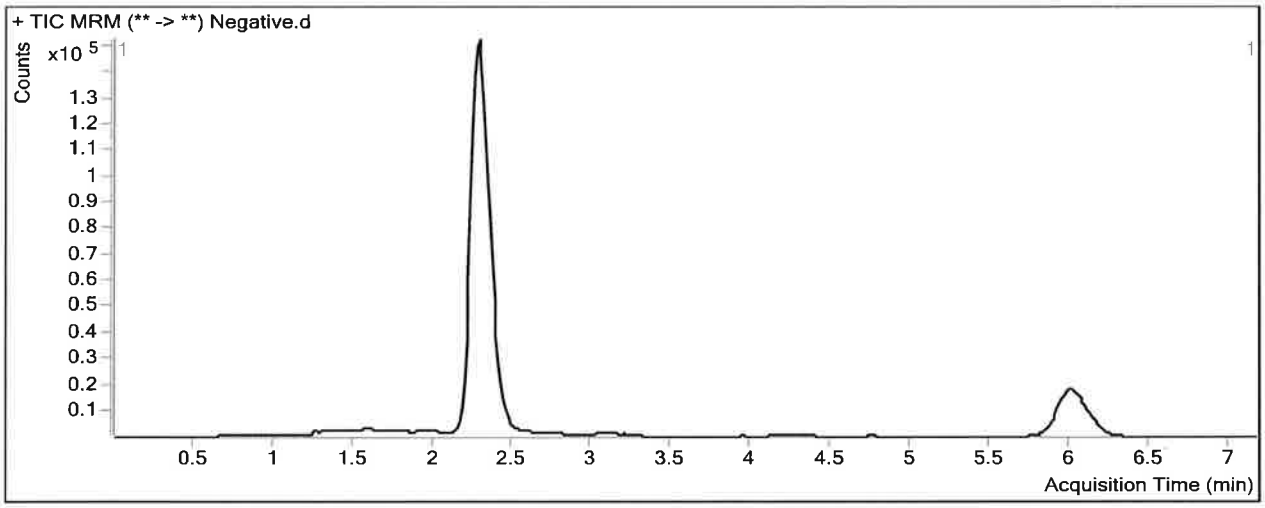
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 14:19 | **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 361331-1 |

## Sample Chromatogram



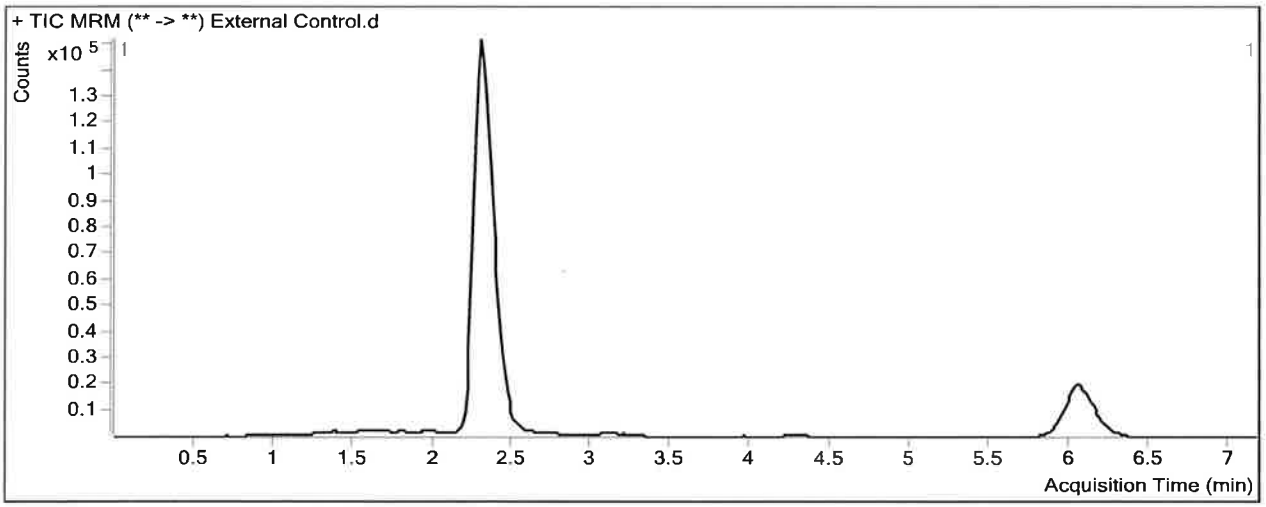
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 14:42 | **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 361331-1 + WS 020718 |

## Sample Chromatogram




## Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---|---|---|---|---|---|---|
| THC-OH | THC-OH-D3 | 2.305 | 85798 | 894768 | 0.0959 | 8.2546 |
| THC-COOH | THC-COOH-D9 | 2.406 | 60450 | 255811 | 0.2363 | 8.4189 |
| THC | THC-D3 | 6.106 | 23777 | 227118 | 0.1047 | 8.4158 |

# ISP Forensics
# Calibration Curve Report

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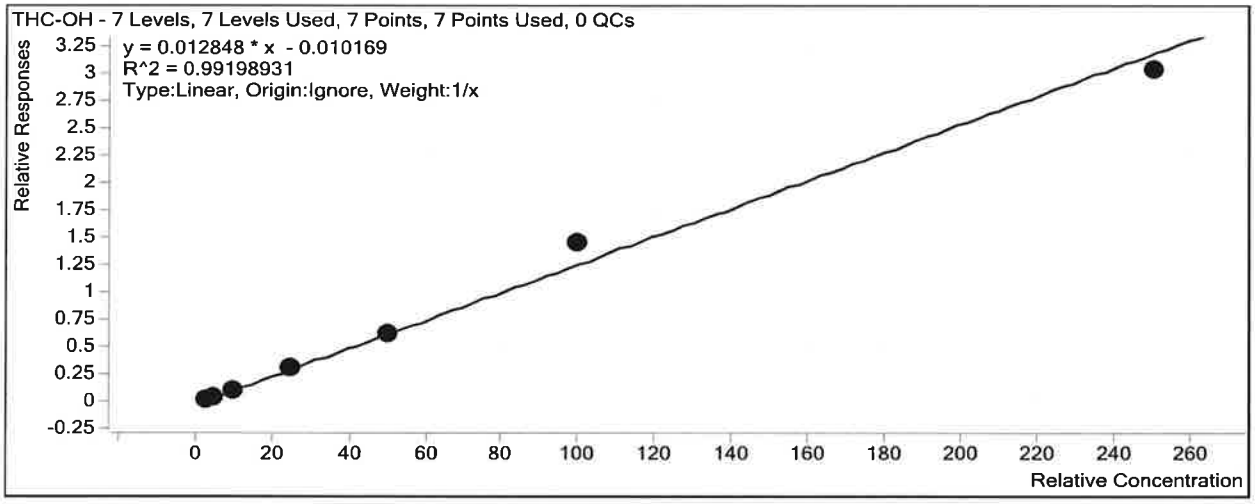
| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS Worklist 2528.batch.bin | | |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Analyst Name** | ISP TOX |

***Target Compound*** *THC-OH*

*Internal Standard* *THC-OH-D3*




| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|---|---|---|---|---|---|
| Cal 1 | 1 | ☑ | 3 | 3.1 | 104.0 |
| Cal 2 | 2 | ☑ | 5 | 4.8 | 96.5 |
| Cal 3 | 3 | ☑ | 10 | 9.3 | 92.9 |
| Cal 4 | 4 | ☑ | 25 | 24.5 | 97.9 |
| Cal 5 | 5 | ☑ | 50 | 49.5 | 98.9 |
| Cal 6 | 6 | ☑ | 100 | 115.0 | 115.0 |
| Cal 7 | 7 | ☑ | 250 | 236.8 | 94.7 |

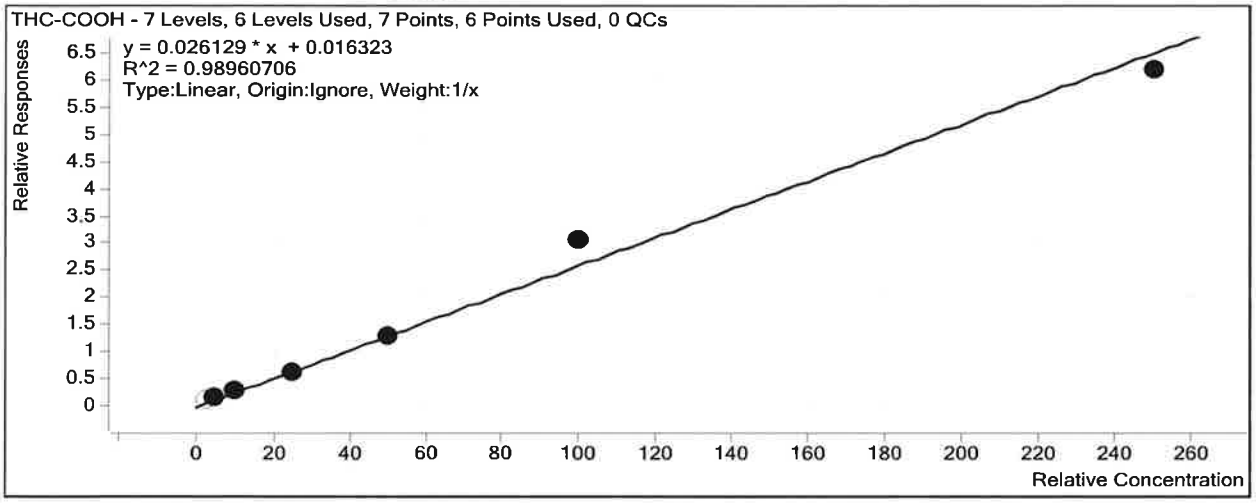
# ISP Forensics
# Calibration Curve Report

15

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS Worklist 2528.batch.bin | | |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Analyst Name** | ISP TOX |

***Target Compound*** *THC-COOH*

*Internal Standard* *THC-COOH-D9*




| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|---|---|---|---|---|---|
| Cal 1 | 1 | ☐ | 3 | 4.5 | 150.9 |
| Cal 2 | 2 | ☑ | 5 | 5.0 | 99.6 |
| Cal 3 | 3 | ☑ | 10 | 9.7 | 96.8 |
| Cal 4 | 4 | ☑ | 25 | 23.9 | 95.8 |
| Cal 5 | 5 | ☑ | 50 | 48.3 | 96.7 |
| Cal 6 | 6 | ☑ | 100 | 116.6 | 116.6 |
| Cal 7 | 7 | ☑ | 250 | 236.4 | 94.6 |

# ISP Forensics
# Calibration Curve Report

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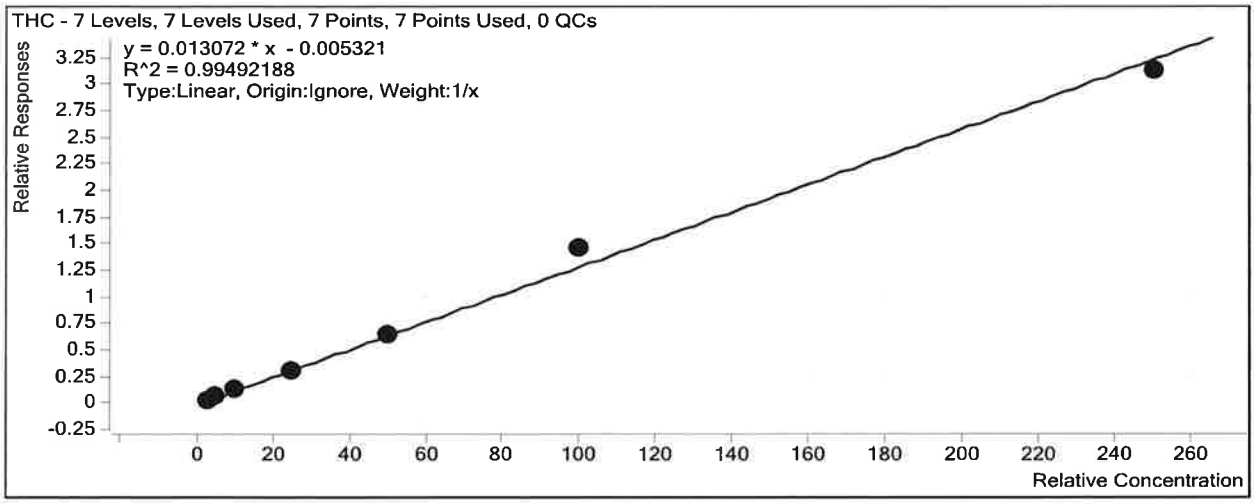
| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS Worklist 2528.batch.bin | | |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Analyst Name** | ISP TOX |

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




| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|---|---|---|---|---|---|
| Cal 1 | 1 | ☑ | 3 | 3.0 | 100.0 |
| Cal 2 | 2 | ☑ | 5 | 5.0 | 100.7 |
| Cal 3 | 3 | ☑ | 10 | 9.7 | 97.2 |
| Cal 4 | 4 | ☑ | 25 | 23.6 | 94.6 |
| Cal 5 | 5 | ☑ | 50 | 49.8 | 99.7 |
| Cal 6 | 6 | ☑ | 100 | 111.9 | 111.9 |
| Cal 7 | 7 | ☑ | 250 | 239.9 | 95.9 |

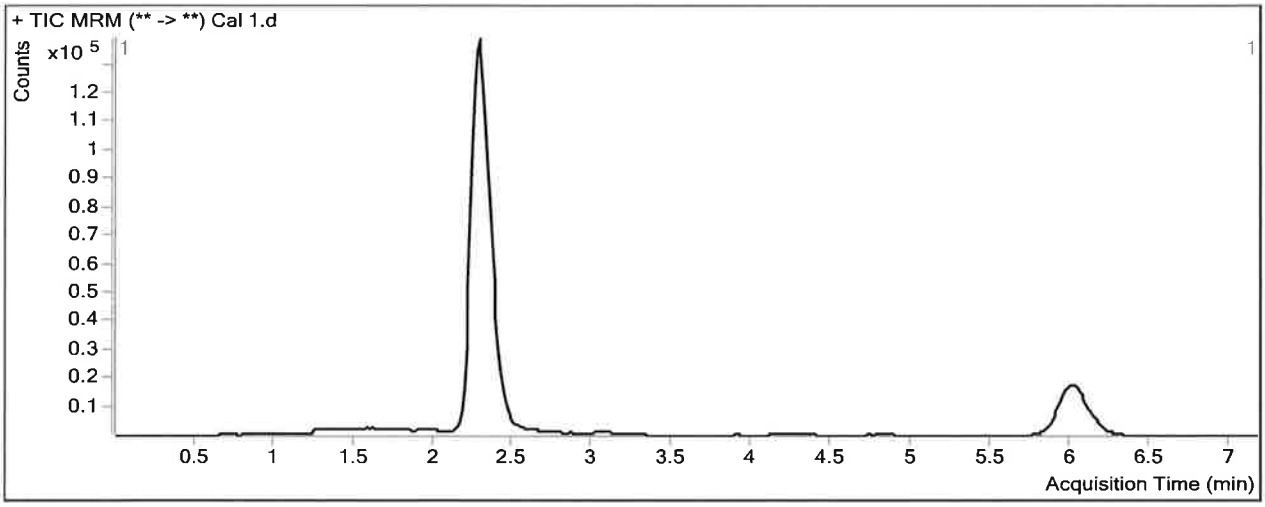
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:27 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 12:20 | **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 | 2.292 | 26028 | 869888 | 0.0299 | 3.1202 |
| THC-COOH | THC-COOH-D9 | 2.379 | 33086 | 245771 | 0.1346 | 4.5274 |
| THC | THC-D3 | 6.025 | 7720 | 227679 | 0.0339 | 3.0008 |

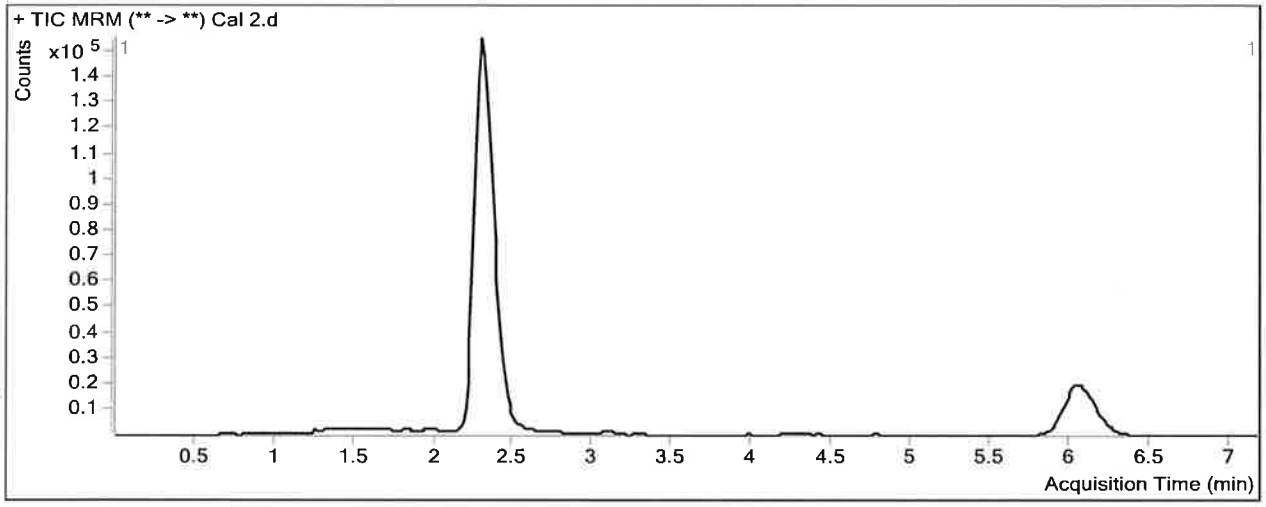
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:27 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 12:32 | **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 | 2.305 | 50135 | 967135 | 0.0518 | 4.8262 |
| THC-COOH | THC-COOH-D9 | 2.406 | 39326 | 268564 | 0.1464 | 4.9792 |
| THC | THC-D3 | 6.079 | 15330 | 253340 | 0.0605 | 5.0362 |

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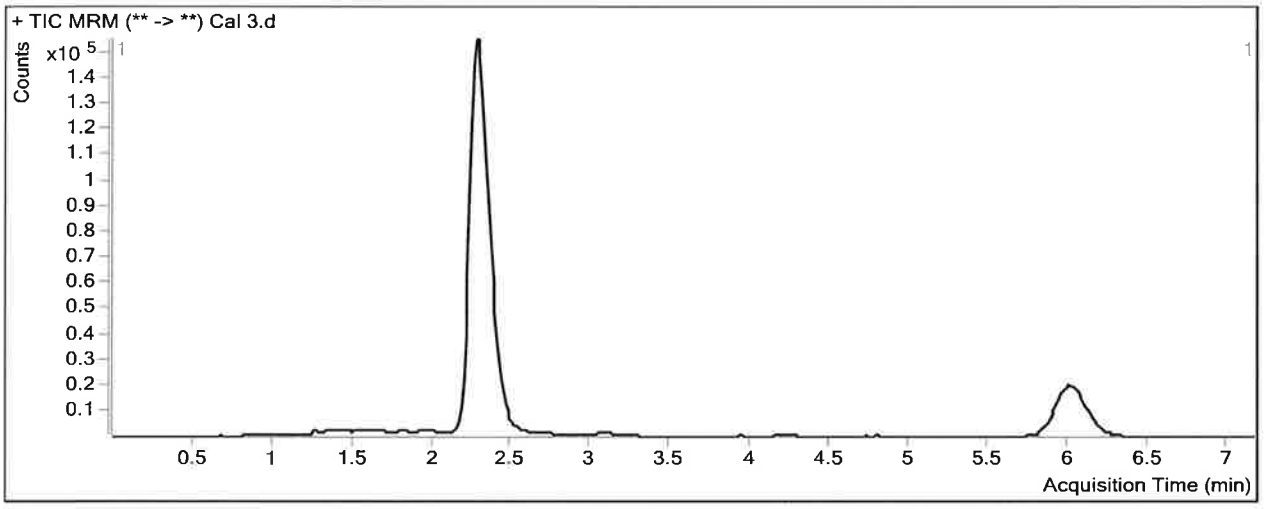
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 12:44 | **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 | 2.292 | 96721 | 885417 | 0.1092 | 9.2936 |
| THC-COOH | THC-COOH-D9 | 2.392 | 66719 | 247836 | 0.2692 | 9.6781 |
| THC | THC-D3 | 6.052 | 28303 | 232587 | 0.1217 | 9.7161 |

TS

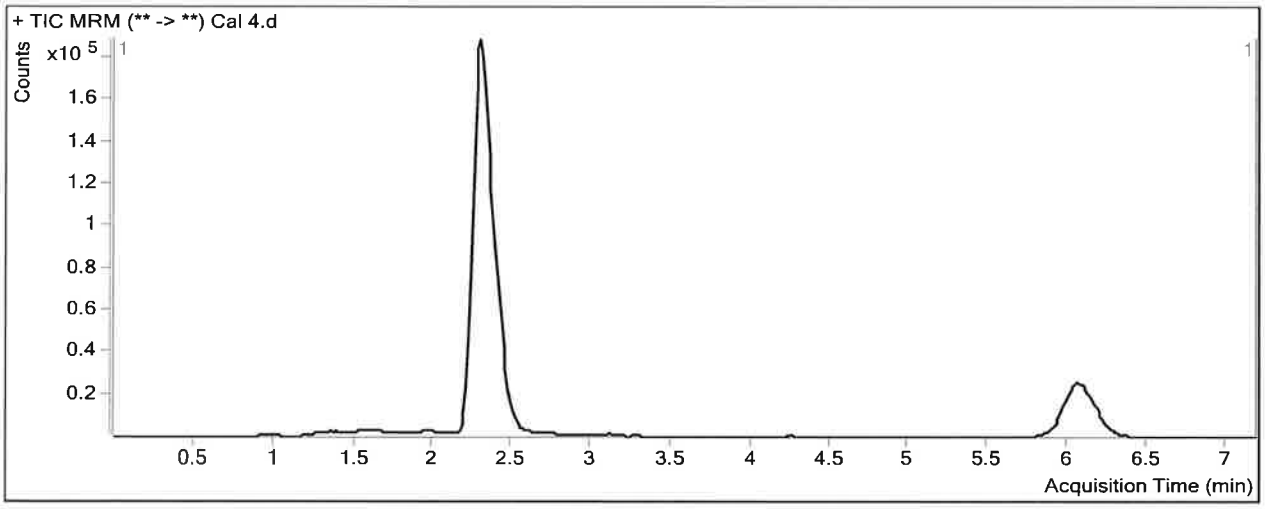
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 12:56 | **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 | 2.305 | 282231 | 927526 | 0.3043 | 24.4743 |
| THC-COOH | THC-COOH-D9 | 2.406 | 158563 | 247007 | 0.6419 | 23.9428 |
| THC | THC-D3 | 6.079 | 73127 | 240753 | 0.3037 | 23.6433 |

TS

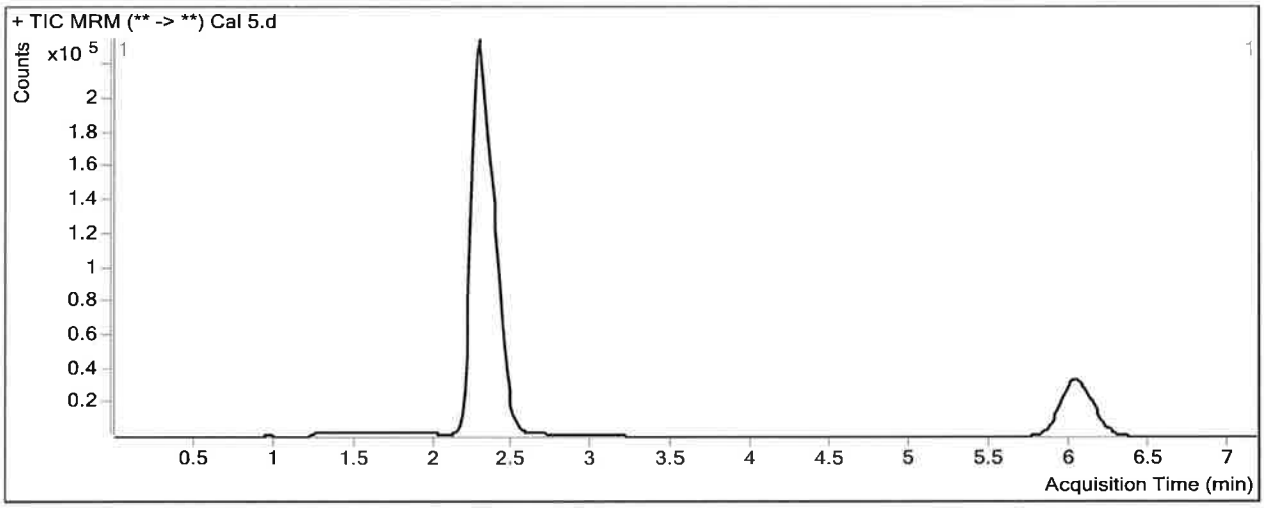
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 13:08 | **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 | 2.292 | 575608 | 920633 | 0.6252 | 49.4540 |
| THC-COOH | THC-COOH-D9 | 2.392 | 320184 | 250309 | 1.2792 | 48.3297 |
| THC | THC-D3 | 6.052 | 156658 | 242453 | 0.6461 | 49.8361 |

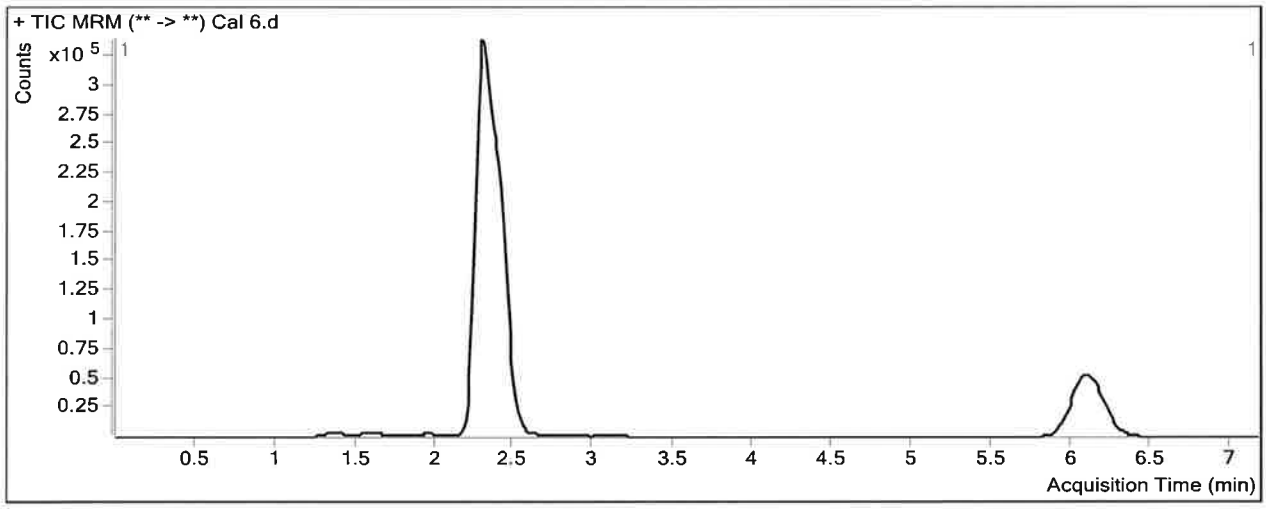
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 13:19 | **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 | 2.305 | 1291897 | 880473 | 1.4673 | 114.9916 |
| THC-COOH | THC-COOH-D9 | 2.419 | 699493 | 228317 | 3.0637 | 116.6255 |
| THC | THC-D3 | 6.106 | 337708 | 231725 | 1.4574 | 111.8945 |

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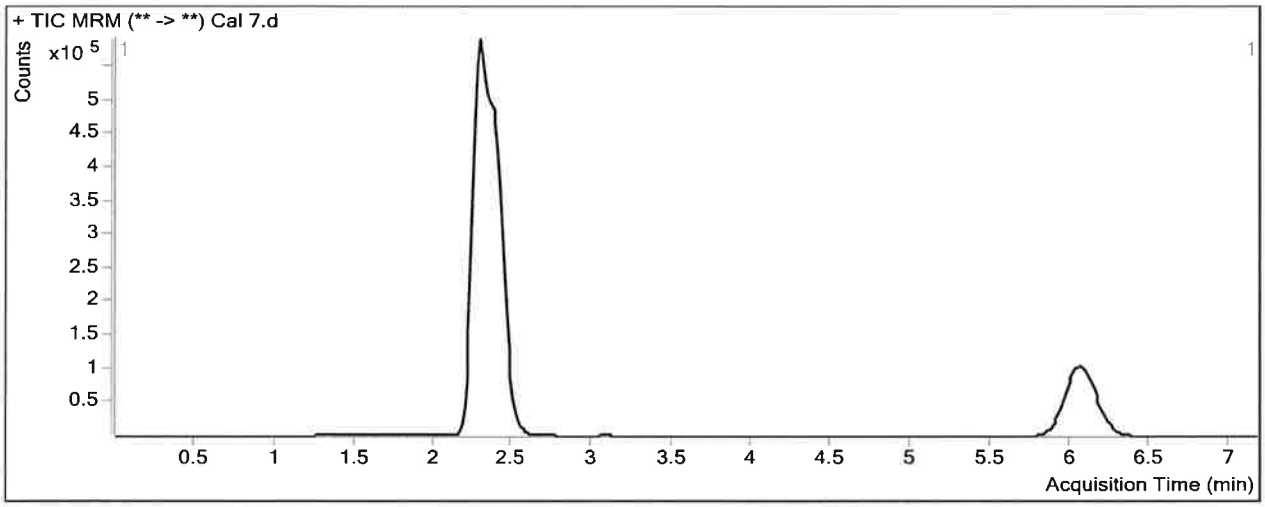
# ISP FORENSICS - Pocatello Instrument # 59740
# Cannabinoids Analysis Report

| | | | |
|---|---|---|---|
| **Batch Data Path** | C:\MassHunter\Data\2018\THC Quant\062818 THC Quant TS Worklist 2528\QuantResults\062818 THCQ TS W | | |
| **Analysis Time** | 7/8/2018 8:26 AM | **Analyst Name** | ISPUser |
| **Report Time** | 7/8/2018 8:28 AM | **Reporter Name** | ISPUser |
| **Last Calib Update** | 7/8/2018 8:26 AM | **Batch State** | Processed |

## Analysis Info

| | | | |
|---|---|---|---|
| **Acq Time** | 2018-06-28 13:31 | **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 | 2.292 | 2829701 | 933025 | 3.0328 | 236.8402 |
| THC-COOH | THC-COOH-D9 | 2.392 | 1494768 | 241306 | 6.1945 | 236.4446 |
| THC | THC-D3 | 6.052 | 774086 | 247288 | 3.1303 | 239.8731 |