














**Worklist: 1593**

| <u>LAB CASE</u> | <u>ITEM</u> | <u>TASK ID</u> | <u>DESCRIPTION</u>           |  |
|-----------------|-------------|----------------|------------------------------|--|
| C2017-0381      | 1           | 78802          | AM 25/AM 26 Blood MultiDrug/ |    |
| M2017-0629      | 1           | 78804          | AM 25/AM 26 Blood MultiDrug/ |    |
| M2017-0727      | 1           | 78805          | AM 25/AM 26 Blood MultiDrug/ |    |
| M2017-0752      | 2           | 78806          | AM 25/AM 26 Blood MultiDrug/ |    |
| M2017-0764      | 2           | 78807          | AM 25/AM 26 Blood MultiDrug/ |    |
| P2016-1529      | 1           | 78811          | AM 25/AM 26 Blood MultiDrug/ |    |
| P2017-0417      | 1           | 78810          | AM 25/AM 26 Blood MultiDrug/ |    |
| P2017-0432      | 1           | 78809          | AM 25/AM 26 Blood MultiDrug/ |    |
| P2017-0433      | 3           | 78808          | AM 25/AM 26 Blood MultiDrug/ |    |
| P2017-0469      | 1           | 78812          | AM 25/AM 26 Blood MultiDrug/ |    |
| P2017-0487      | 1           | 78813          | AM 25/AM 26 Blood MultiDrug/ |   |
| P2017-0498      | 1           | 78814          | AM 25/AM 26 Blood MultiDrug/ |  |
| P2017-0500      | 1           | 78815          | AM 25/AM 26 Blood MultiDrug/ |  |
| P2017-0502      | 1           | 78816          | AM 25/AM 26 Blood MultiDrug/ |  |



# THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 3/8/17

Analyst: B. Wylie

## PRE-ANALYTIC

Plate Lot#

Stock THC plate: 0483844

Plate Exp: 6/15/2017

- 1 1. Ensure all solutions are within expiration date.
  - Mobile Phase A: **10mM Amm Formate**
  - Mobile Phase B: **0.1% FA in MeOH**
  - Blank/Negative Blood: **Lot 321632-1**
  - *Column: Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)*
  - **0.1% Formic Acid in water**
  - **MTBE**
  - **Hexane**
- 2 2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.
- 3 3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.
- 4 4. Create worklist. Data path name: 3-8-17<sup>BAW</sup> blood screen AM29-26

## ANALYTIC

- 1 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- 4 2. Add **1000 µL blood** to wells of analytical (standards) plate. Mix via aspirate and dispense.
  - Blank blood for locations containing standards/QCs and internal standards
  - Sample blood for locations containing only internal standards
- X 3. Place on shaking incubator at ambient temp., **900rpm for 15 minutes**. *Shaker ID 66759*
- X 4. Pipette **500µL 0.1% formic acid** to all wells of standards plate.
- X 5. Place on shaking incubator at ambient temp., **900rpm for 15 minutes**.
- 2 6. Transfer **800µL of blood+acid** mixture to corresponding wells of SLE+ plate.
- X 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).  
(*Load at 85-100 PSI- Selector to the right*) Pressure Manifold ID 66729  
Wait 5 min.
- X 8. Add **2.25mL MTBE** and allow to flow under gravity for 5 minutes. (*add in 3 increments of 750uL*)
- X 9. Apply positive pressure for approx. 15 seconds. (*10-15 PSI- Selector to the left*)
- X 10. Add **2.25mL Hexane** and allow to flow under gravity for 5 minutes. (*add in 3 increments of 750uL*)
- X 11. Apply positive pressure for approx. 15 seconds. (*10-15 PSI- Selector to the left*)
- X 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID 66819*
- 2 13. Reconstitute in **100 µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## POST-ANALYTIC

- X 1. Open quantitation software and create a new quantitation batch. Batch name: 3-8-17 AM26 Cannabinoids Screen
- 2 2. Make any necessary integration changes.
- 3 3. For unknown samples, calculated concentration > 3ng THC, THC-OH and > 5ng Carboxy-THC +/- 2% retention time of calibrators?
- 2 4. Did QCs pass for each analyte? (Y) N \_\_\_\_\_
- X 5. Central File Packet to include:  LIMS Worklist:  Method Checklist  Calibration and Control Reports

Comments:

\*plate Config - Plate #1

# ISP FORENSICS - Cd'A

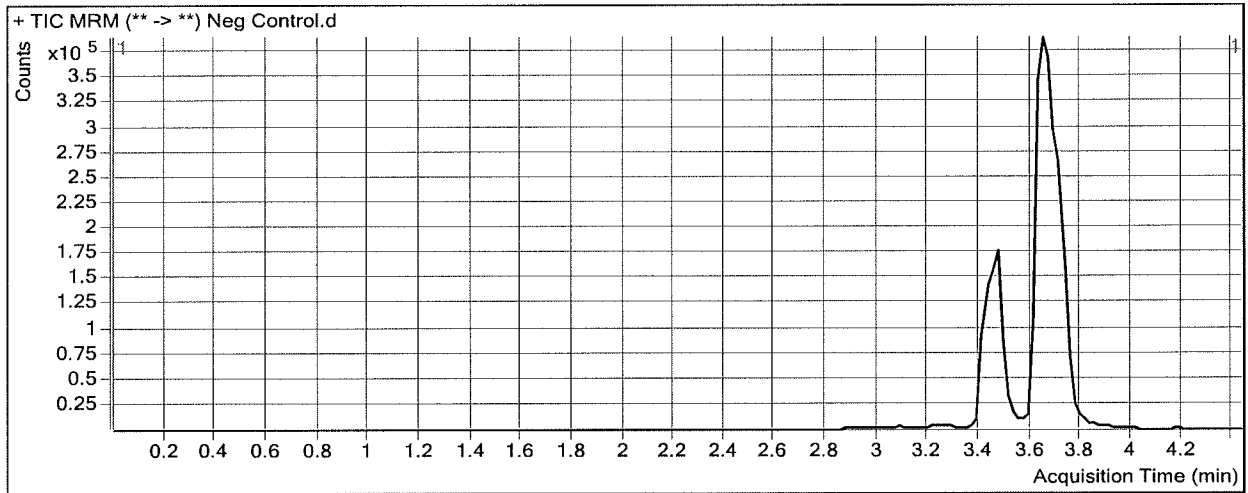
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 16:58 **Data File** Neg Control.d  
**Sample Type** Sample **Sample Name** Neg Control  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-a2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.446 | 27596    | 119095    | 0.2317     | 3.8156 <5  |

# ISP FORENSICS - Cd'A

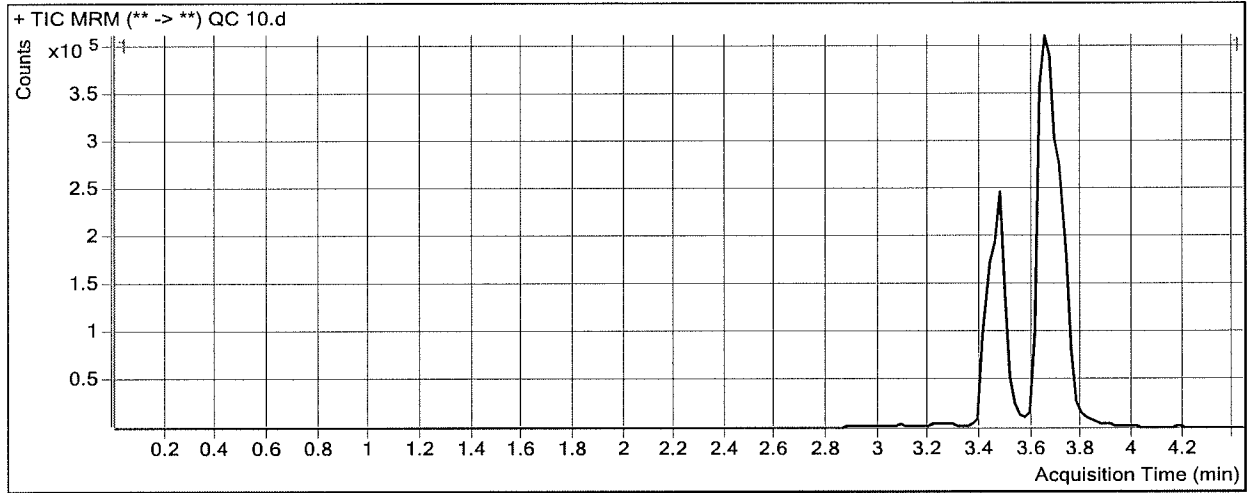
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 17:11 **Data File** QC 10.d  
**Sample Type** QC **Sample Name** QC 10  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-A3 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



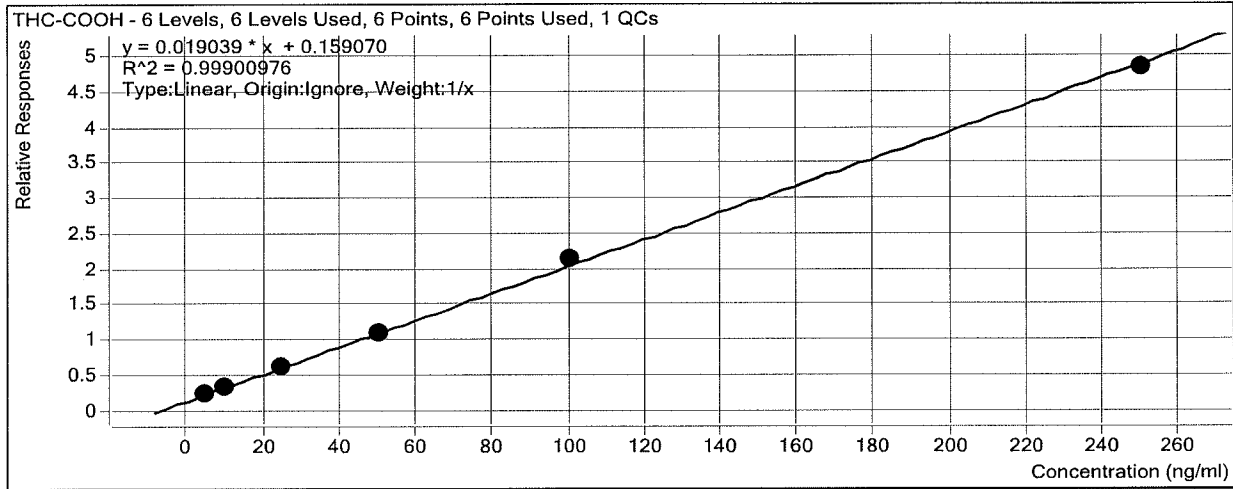
### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.446 | 47721    | 131695    | 0.3624     | 10.6775    |
| THC-OH   | 3.473 | 86397    | 817891    | 0.1056     | 9.4241     |
| THC      | 3.740 | 3151     | 32295     | 0.0976     | 9.4425     |

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids  
Screen.batch.bin  
**Last Calib Update** 3/8/2017 8:32 PM **Analyst Name** ISP TOX

**Target Compound** *THC-COOH*  
**Internal Standard** *THC-COOH-d9*



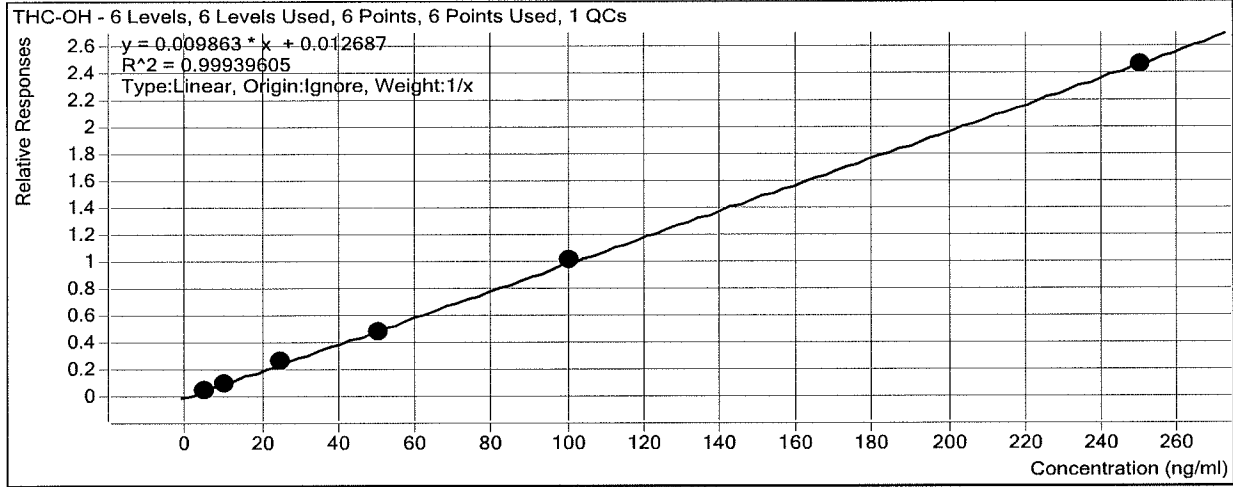
| Sample | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|--------|-------|-------------------------------------|----------|------------|----------|
| cal 2  | 2     | <input checked="" type="checkbox"/> | 5        | 5.0        | 100.6    |
| cal 3  | 3     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.5     |
| QC 10  | 3     | <input checked="" type="checkbox"/> | 10       | 10.7       | 106.8    |
| cal 4  | 4     | <input checked="" type="checkbox"/> | 25       | 24.7       | 98.6     |
| cal 5  | 5     | <input checked="" type="checkbox"/> | 50       | 50.1       | 100.1    |
| cal 6  | 6     | <input checked="" type="checkbox"/> | 100      | 105.0      | 105.0    |
| cal 7  | 7     | <input checked="" type="checkbox"/> | 250      | 245.5      | 98.2     |

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids  
Screen.batch.bin

**Last Calib Update** 3/8/2017 8:32 PM **Analyst Name** ISP TOX

**Target Compound** *THC-OH*  
**Internal Standard** *THC-OH-d3*



| Sample | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|--------|-------|-------------------------------------|----------|------------|----------|
| cal 2  | 2     | <input checked="" type="checkbox"/> | 5        | 5.0        | 99.9     |
| cal 3  | 3     | <input checked="" type="checkbox"/> | 10       | 9.8        | 97.7     |
| QC 10  | 3     | <input checked="" type="checkbox"/> | 10       | 9.4        | 94.2     |
| cal 4  | 4     | <input checked="" type="checkbox"/> | 25       | 26.0       | 104.0    |
| cal 5  | 5     | <input checked="" type="checkbox"/> | 50       | 48.1       | 96.3     |
| cal 6  | 6     | <input checked="" type="checkbox"/> | 100      | 102.8      | 102.8    |
| cal 7  | 7     | <input checked="" type="checkbox"/> | 250      | 248.3      | 99.3     |

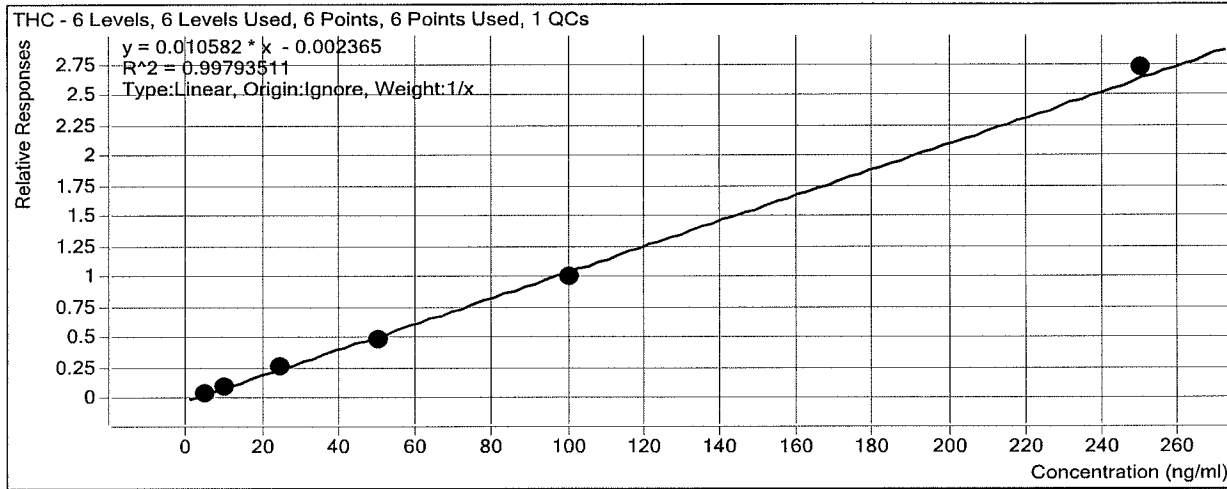
*ISP*

# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids  
Screen.batch.bin

**Last Calib Update** 3/8/2017 8:32 PM      **Analyst Name** ISP TOX

**Target Compound** *THC*  
**Internal Standard** *THC-d3*



| Sample | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|--------|-------|-------------------------------------|----------|------------|----------|
| cal 2  | 2     | <input checked="" type="checkbox"/> | 5        | 5.2        | 103.0    |
| cal 3  | 3     | <input checked="" type="checkbox"/> | 10       | 10.3       | 103.1    |
| QC 10  | 3     | <input checked="" type="checkbox"/> | 10       | 9.4        | 94.4     |
| cal 4  | 4     | <input checked="" type="checkbox"/> | 25       | 25.8       | 103.2    |
| cal 5  | 5     | <input checked="" type="checkbox"/> | 50       | 46.0       | 91.9     |
| cal 6  | 6     | <input checked="" type="checkbox"/> | 100      | 96.0       | 96.0     |
| cal 7  | 7     | <input checked="" type="checkbox"/> | 250      | 256.8      | 102.7    |

# ISP FORENSICS - Cd'A

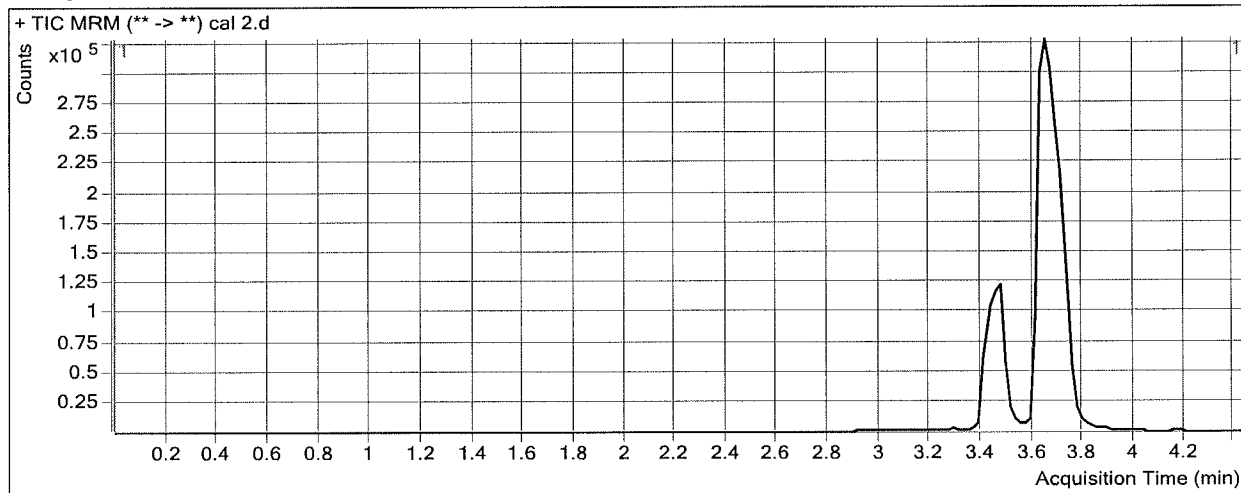
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 16:25 **Data File** cal 2.d  
**Sample Type** Calibration **Sample Name** cal 2  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-B1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.446 | 22540    | 88463     | 0.2548     | 5.0281     |
| THC-OH   | 3.473 | 27374    | 441988    | 0.0619     | 4.9931     |
| THC      | 3.720 | 1091     | 20916     | 0.0522     | 5.1525     |



# ISP FORENSICS - Cd'A

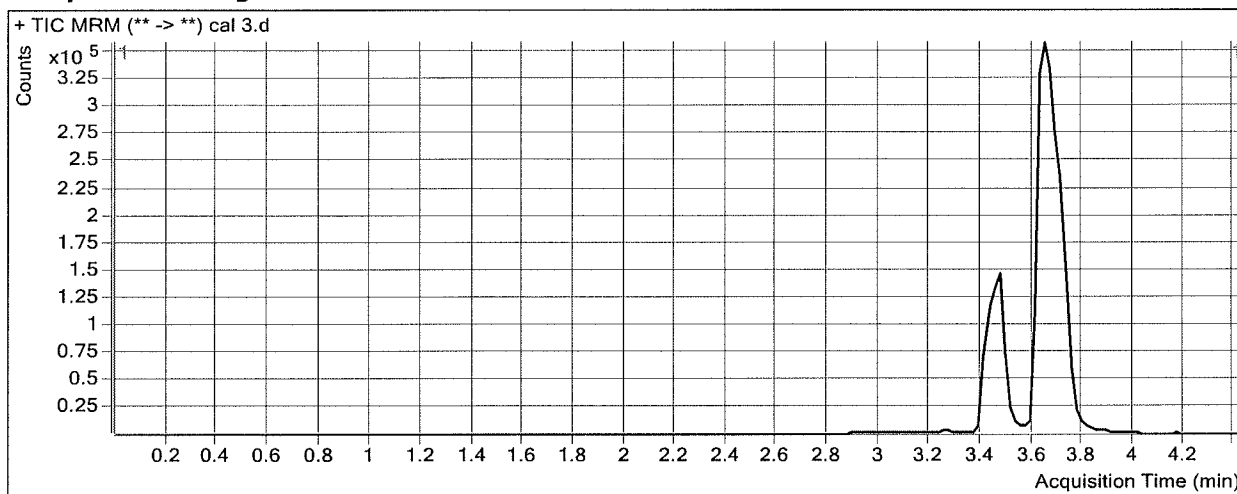
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 16:31 **Data File** cal 3.d  
**Sample Type** Calibration **Sample Name** cal 3  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-C1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.446 | 33933    | 98443     | 0.3447     | 9.7499     |
| THC-OH   | 3.473 | 53449    | 490204    | 0.1090     | 9.7688     |
| THC      | 3.740 | 2326     | 21784     | 0.1068     | 10.3129    |

# ISP FORENSICS - Cd'A

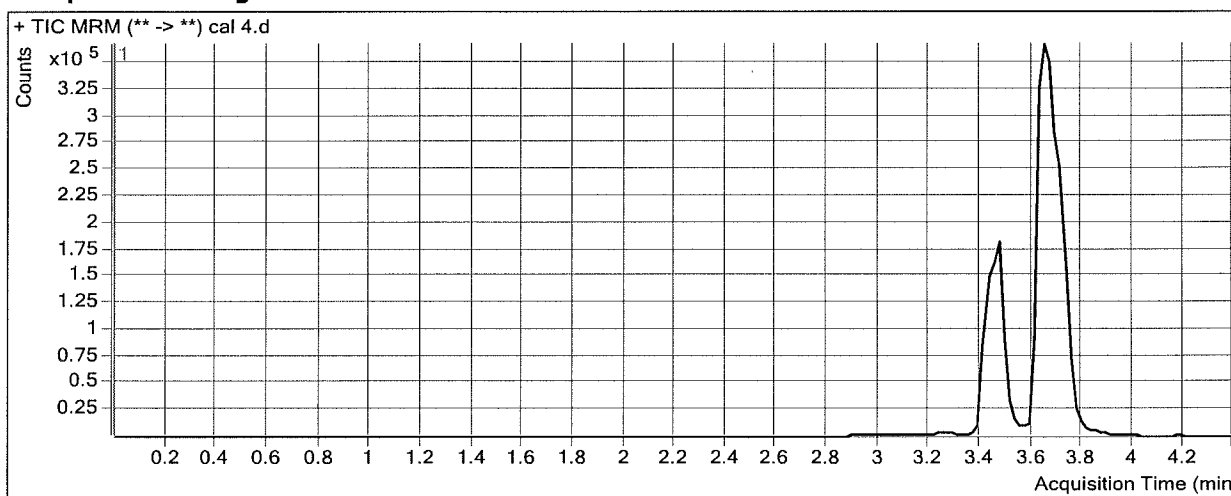
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 16:38 **Data File** cal 4.d  
**Sample Type** Calibration **Sample Name** cal 4  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-D1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.446 | 63675    | 101331    | 0.6284     | 24.6506    |
| THC-OH   | 3.473 | 139972   | 519941    | 0.2692     | 26.0092    |
| THC      | 3.740 | 6443     | 23806     | 0.2706     | 25.7993    |

*BU*

# ISP FORENSICS - Cd'A

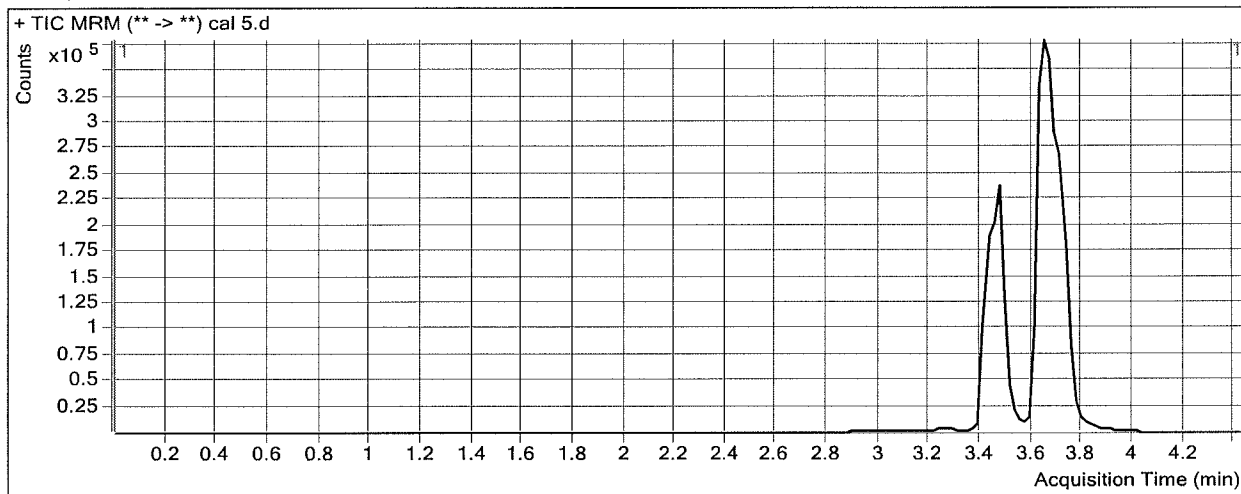
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 16:44 **Data File** cal 5.d  
**Sample Type** Calibration **Sample Name** cal 5  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-E1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.446 | 112711   | 101323    | 1.1124     | 50.0726    |
| THC-OH   | 3.473 | 270772   | 555471    | 0.4875     | 48.1388    |
| THC      | 3.740 | 11366    | 23484     | 0.4840     | 45.9592    |

*Handwritten signature*

# ISP FORENSICS - Cd'A

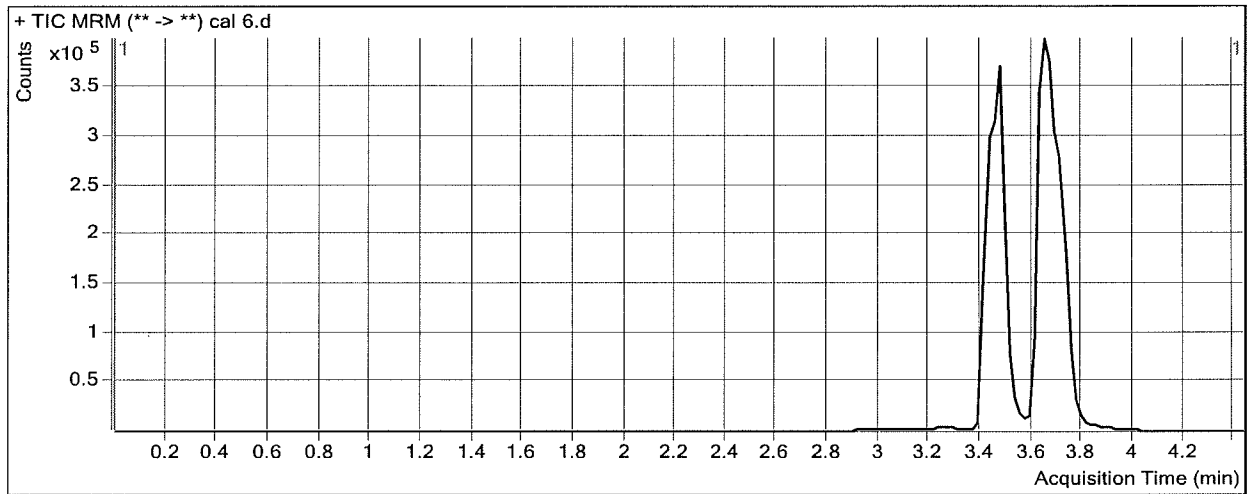
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 16:51 **Data File** cal 6.d  
**Sample Type** Calibration **Sample Name** cal 6  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-F1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.446 | 228733   | 105997    | 2.1579     | 104.9874   |
| THC-OH   | 3.473 | 635221   | 618588    | 1.0269     | 102.8321   |
| THC      | 3.740 | 25771    | 25430     | 1.0134     | 95.9922    |

*ISP*

# ISP FORENSICS - Cd'A

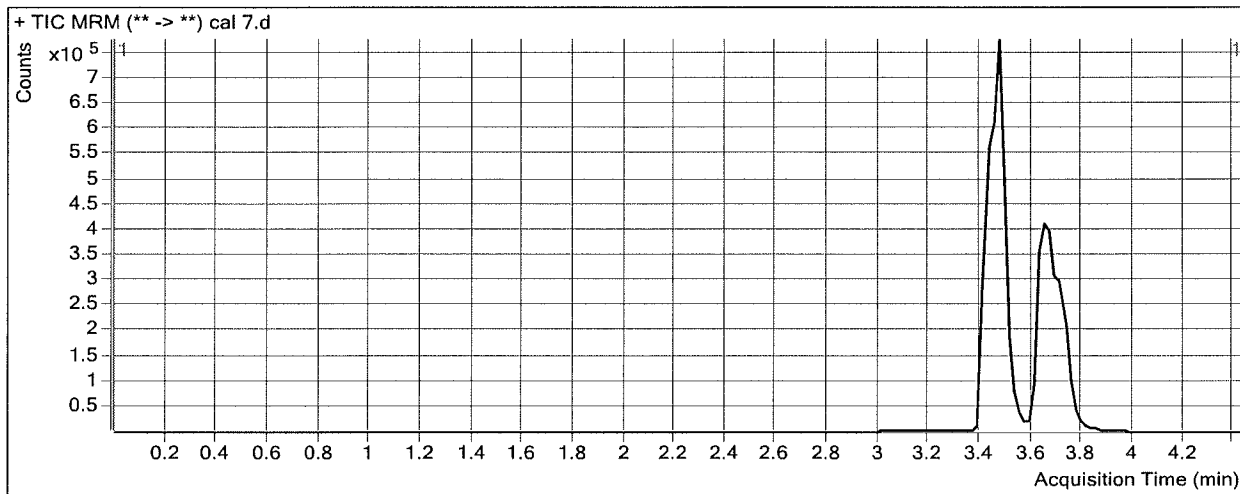
## Cannabinoid Screen Report

**Batch Data Path** D:\2017 Data\3-8-17 BAW blood screen AM 25-26\QuantResults\3-8-17 AM 26 Cannabinoids Scre  
**Analysis Time** 3/8/2017 8:32 PM **Analyst Name** ISP Tox  
**Report Time** 3/8/2017 8:33 PM **Reporter Name** ISP Tox  
**Last Calib Update** 3/8/2017 8:32 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-03-08 17:04 **Data File** cal 7.d  
**Sample Type** Calibration **Sample Name** cal 7  
**Dilution** 1 **Acq Method** Screen THC 11102016.m  
**Position** P1-G1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 26 Cannabinoid screen

### Sample Chromatogram



### Results

| Compound | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-------|----------|-----------|------------|------------|
| THC-COOH | 3.466 | 548878   | 113561    | 4.8333     | 245.5115   |
| THC-OH   | 3.473 | 1784823  | 725191    | 2.4612     | 248.2580   |
| THC      | 3.740 | 77496    | 28545     | 2.7149     | 256.7839   |

## Multi-Drug Screen in Blood by LC-MS/MS

Extraction Date: 3/8/17

Analyst: Buoyie

### PRE-ANALYTIC

Plate Lot# 0495940

Plate Exp. 12/12/2017

1. Ensure all solutions are within expiration date.

Mobile Phase A:  
**10mM Amm Formate**  
Mobile Phase B  
**0.1% FA in MeOH**  
Blank/Negative Blood

**0.5M Ammonium Hydroxide** Lot #:                       
Column: **Phenomenex Phenyl Hexyl (4.6 x 50mm; 2.6um)**

Lot #: 321632-1

2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.  
 3. Begin mobile phase flow and allow system to equilibrate for approx. 30 min.  
 4. Create worklist. Data path name: 3-8-17<sup>BAW</sup> blood screen AM25-26

### ANALYTIC

1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.  
 2. Pipette **250µL blood** in wells of analytical (standards) plate. Mix via aspirate and dispense.  
     • Blank blood for locations containing standards/QCs and internal standards  
     • Sample blood for locations containing only internal standards  
 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID 66759  
 4. Pipette **250µL 0.5M ammonium hydroxide** buffer in wells of analytical (standards) plate.  
 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.  
 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.  
 7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).  
     *(Load at 85-100 PSI- Selector to the right) Manifold ID 66729*  
     Wait 5 min.  
 8. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.  
 9. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*  
 10. Add **900µL ethyl acetate** and allow to flow for 5 minutes under gravity.  
 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*  
 12. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
     SPE Dry ID 66819  
 13. Reconstitute in **100µL 100% 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. Batch name: 3-8-17 Panel 1 Screen  
3-8-17 Panel 2 Screen  
 2. Make any necessary integration changes.  
 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% rt of administrative control. > 1/10 the response of administrative control.  
 4. Did all QCs pass for each analyte? Y N \_\_\_\_\_  
 5. Central File Packet to include:  LIMS Worklist:  Method Checklist  Calibration and Control Reports

COMMENTS:

*BB*

Plate Config - Plate #2







| Compound Method |                 | p1 cal 1a        |       | p1 cal 1a Results |        |         |    | Qualifier 1 M... | Qualifier 1 Res... | ISTD Method | ISTD Results    |                 |       |          |
|-----------------|-----------------|------------------|-------|-------------------|--------|---------|----|------------------|--------------------|-------------|-----------------|-----------------|-------|----------|
| Name            | Transition      | Acq. Date-Time   | Pos   | RT                | Resp.  | S/N     | MT | Transition       | Ratio              | S/N         | Name            | Transition      | RT    | Resp.    |
| Tramadol        | 264.2 -> 58.3   | 3/8/2017 7:42 PM | P2-A1 | 5.635             | 214370 | 88.26   |    | 264.2 -> 43.3    | 4.4                | 5.48        | Tramadol-13C-D3 | 268.2 -> 58.3   | 5.614 | 10068... |
| Trazodone       | 372.2 -> 176... | 3/8/2017 7:42 PM | P2-A1 | 6.901             | 279633 | 317.45  |    | 372.2 -> 148...  | 70.0               | 569.01      | Trazodone-D6    | 378.2 -> 182... | 6.861 | 12647... |
| Venlafaxine     | 278.2 -> 58.3   | 3/8/2017 7:42 PM | P2-A1 | 5.979             | 212057 | 82.03   |    | 278.2 -> 260...  | 20.4               | 27.10       | Venlafaxine-D6  | 284.2 -> 64.3   | 5.979 | 975109   |
| Zolpidem        | 308.2 -> 235... | 3/8/2017 7:42 PM | P2-A1 | 6.464             | 208766 | 1221.32 |    | 308.2 -> 263...  | 36.7               | 207.23      | Zolpidem-D6     | 314.2 -> 235... | 6.462 | 11119... |

| Compound Method      |                 | p1 negative      |       |       | p1 negative Results |       |                 | Qualifier 1 M... |       |     | Qualifier 1 Re...       |                 |       | ISTD Method |  | ISTD Results |  |
|----------------------|-----------------|------------------|-------|-------|---------------------|-------|-----------------|------------------|-------|-----|-------------------------|-----------------|-------|-------------|--|--------------|--|
| Name                 | Transition      | Acq. Date-Time   | Pos.  | RT    | Resp.               | S/N   | MI              | Transition       | Ratio | S/N | Name                    | Transition      | RT    | Resp.       |  |              |  |
| 6-MAAM               | 328.2 -> 165... | 3/8/2017 8:21 PM | P2... | 6.018 | 86                  | 2.90  | 328.2 -> 211... |                  |       |     | 6-MAAM-D6               | 334.2 -> 165... | 5.279 | 55384       |  |              |  |
| 7-aminoclonazepam    | 286.1 -> 121... | 3/8/2017 8:21 PM | P2... | 6.018 | 90                  | 2.90  | 286.1 -> 222... |                  |       |     | 7-Aminoclonazepam-D4    | 290.1 -> 121... | 5.610 | 91832       |  |              |  |
| Acetyl Nortentanyl   | 323.2 -> 105... | 3/8/2017 8:21 PM | P2... | 6.399 | 90                  | 0.73  | 323.2 -> 188... |                  |       |     | Acetyl Nortentanyl-D5   | 328.2 -> 105... | 6.214 | 14554       |  |              |  |
| Acetyl Nortentanyl   | 219.1 -> 84.2   | 3/8/2017 8:21 PM | P2... | 5.030 | 58                  | 2.14  | 219.1 -> 56.3   | 240.8            | 1.77  |     | Acetyl Nortentanyl-D5   | 224.2 -> 84.2   | 5.030 | 46757       |  |              |  |
| a-hydroxylaprazolam  | 325.1 -> 297... | 3/8/2017 8:21 PM | P2... | 6.439 | 70                  | 0.85  | 325.1 -> 215... |                  |       |     | a-hydroxylaprazolam-D5  | 330.1 -> 302... | 6.458 | 35557       |  |              |  |
| alpha-PVP            | 232.2 -> 91.0   | 3/8/2017 8:21 PM | P2... | 5.496 | 70                  | 1.02  | 232.2 -> 77.1   | 632.5            | 0.62  |     | alpha-PVP-d8            | 240.2 -> 91.1   | 5.802 | 489504      |  |              |  |
| Alprazolam           | 309.1 -> 281... | 3/8/2017 8:21 PM | P2... | 6.362 | 1861                | 14.20 | 309.1 -> 205... | 3.1              | 1.15  |     | Alprazolam-D5           | 314.1 -> 286... | 6.544 | 224216      |  |              |  |
| Amphetamine          | 136.1 -> 91.1   | 3/8/2017 8:21 PM | P2... | 5.053 | 38671               | 7.11  | 136.1 -> 119... | 1.7              | 0.53  |     | Amphetamine-D11         | 147.2 -> 130... | 4.931 | 91483       |  |              |  |
| Bupropion            | 240.1 -> 184... | 3/8/2017 8:21 PM | P2... | 6.412 | 779                 | 0.95  | 240.1 -> 131... | 174.7            | 4.32  |     | Bupropion-D9            | 249.2 -> 185... | 6.045 | 444178      |  |              |  |
| Carisoprodol         | 261.2 -> 176... | 3/8/2017 8:21 PM | P2... |       |                     |       | 261.2 -> 55.3   |                  |       |     | Carisoprodol-D7         | 268.2 -> 183... | 6.186 | 399898      |  |              |  |
| Citalopram           | 325.2 -> 109... | 3/8/2017 8:21 PM | P2... | 5.889 | 459                 | 0.71  | 325.2 -> 262... | 13.2             | 1.24  |     | Citalopram-D6           | 331.2 -> 109... | 6.234 | 898133      |  |              |  |
| Clonazepam           | 316.1 -> 269... | 3/8/2017 8:21 PM | P2... | 6.380 | 257                 | 0.39  | 316.1 -> 213... |                  |       |     | Clonazepam-D4           | 320.1 -> 217... | 6.400 | 23219       |  |              |  |
| Codeine              | 300.2 -> 215... | 3/8/2017 8:21 PM | P2... | 5.121 | 473                 | 1.14  | 300.2 -> 165... | 12.3             | 24.26 |     | Codeine-D6              | 306.2 -> 218... | 5.221 | 37469       |  |              |  |
| Cyclobenzaprine      | 276.2 -> 214... | 3/8/2017 8:21 PM | P2... | 6.551 | 60                  | 0.41  | 276.2 -> 231... |                  |       |     | Cyclobenzaprine-D3      | 279.2 -> 215... | 6.571 | 610477      |  |              |  |
| Dextromethorphan     | 272.2 -> 171... | 3/8/2017 8:21 PM | P2... | 6.287 | 625                 | 0.88  | 272.2 -> 147... | 147.9            | 0.92  |     | Dextromethorphan-D3     | 275.2 -> 171... | 6.327 | 278560      |  |              |  |
| Dextropropfan        | 258.2 -> 157... | 3/8/2017 8:21 PM | P2... | 5.555 | 91                  | 1.13  | 258.2 -> 133... | 195.8            | 1.58  |     | Dextropropfan-D3        | 261.2 -> 157... | 5.615 | 260693      |  |              |  |
| Diazepam             | 285.1 -> 193... | 3/8/2017 8:21 PM | P2... | 6.630 | 1422                | 2.49  | 285.1 -> 153... | 11.3             | 0.60  |     | Diazepam-D5             | 290.1 -> 198... | 6.771 | 196108      |  |              |  |
| Dihydrocodeine       | 302.2 -> 198... | 3/8/2017 8:21 PM | P2... | 4.795 | 5                   | 0.24  | 302.2 -> 128... | 1256.2           | 0.78  |     | Dihydrocodeine-D6       | 308.2 -> 202... | 5.017 | 129875      |  |              |  |
| Diphenhydramine      | 256.2 -> 167... | 3/8/2017 8:21 PM | P2... | 6.106 | 269                 | 0.66  | 256.2 -> 152... | 105.4            | 1.52  |     | Diphenhydramine-D3      | 259.2 -> 167... | 6.228 | 16047...    |  |              |  |
| Doxylamine           | 271.2 -> 182... | 3/8/2017 8:21 PM | P2... | 5.880 | 6849                | 2.47  | 271.2 -> 167... | 64.8             | 2.43  |     | Doxylamine-D5           | 276.2 -> 187... | 5.859 | 12857...    |  |              |  |
| EDDP                 | 279.2 -> 235... | 3/8/2017 8:21 PM | P2... | 6.489 | 54                  | 0.76  | 279.2 -> 250... |                  |       |     | EDDP-D3                 | 282.2 -> 235... | 6.183 | 1546        |  |              |  |
| Fentanyl             | 337.2 -> 105... | 3/8/2017 8:21 PM | P2... | 6.539 | 122                 | 2.61  | 337.2 -> 188... | 151.6            | 0.52  |     | Fentanyl-D5             | 342.3 -> 105... | 6.416 | 13560...    |  |              |  |
| Fluoxetine           | 310.1 -> 44.3   | 3/8/2017 8:21 PM | P2... | 6.402 | 211                 | 0.37  | 310.1 -> 148... |                  |       |     | Fluoxetine-D6           | 316.2 -> 44.3   | 6.462 | 13650...    |  |              |  |
| Hydrocodone          | 300.2 -> 198... | 3/8/2017 8:21 PM | P2... | 5.426 | 297                 | 0.84  | 300.2 -> 128... | 93.6             | 0.73  |     | Hydrocodone-D6          | 306.2 -> 202... | 5.425 | 207653      |  |              |  |
| Hydromorphone        | 286.2 -> 184... | 3/8/2017 8:21 PM | P2... |       |                     |       | 286.2 -> 157... |                  |       |     | Hydromorphone-D6        | 292.2 -> 185... | 4.759 | 73316       |  |              |  |
| Ketamine             | 238.1 -> 125... | 3/8/2017 8:21 PM | P2... | 5.965 | 129                 | 0.67  | 238.1 -> 220... | 292.8            | 0.58  |     | Ketamine-D4             | 242.1 -> 129... | 5.984 | 356453      |  |              |  |
| Meprobamate          | 219.1 -> 158... | 3/8/2017 8:21 PM | P2... | 5.355 | 238                 | 0.40  | 219.1 -> 97.1   | 223.5            | 0.48  |     | Meprobamate-D7          | 226.2 -> 165... | 5.701 | 93774       |  |              |  |
| Methadone            | 310.2 -> 265... | 3/8/2017 8:21 PM | P2... | 6.524 | 2246                | 1.79  | 310.2 -> 105... |                  |       |     | Methadone-D9            | 319.3 -> 288... | 6.543 | 12418...    |  |              |  |
| Methamphetamine      | 150.1 -> 91.1   | 3/8/2017 8:21 PM | P2... |       |                     |       | 150.1 -> 119... |                  |       |     | Methamphetamine-D11     | 161.2 -> 97.1   | 5.153 | 203782      |  |              |  |
| Morphine             | 286.2 -> 201... | 3/8/2017 8:21 PM | P2... | 4.519 | 16                  | 0.31  | 286.2 -> 165... | 238.8            | 1.04  |     | Morphine-D6             | 292.2 -> 152... | 4.498 | 5538        |  |              |  |
| Naloxone             | 328.2 -> 309... | 3/8/2017 8:21 PM | P2... | 5.625 | 484                 | 1.87  | 328.2 -> 211... |                  |       |     | Naloxone-D5             | 333.2 -> 315... | 5.564 | 152917      |  |              |  |
| Naltrexol            | 344.2 -> 326... | 3/8/2017 8:21 PM | P2... | 5.298 | 5676                | 24.20 | 344.2 -> 308... |                  |       |     | Naltrexol-D3            | 347.2 -> 329... | 5.136 | 349012      |  |              |  |
| Naltrexone           | 342.2 -> 324... | 3/8/2017 8:21 PM | P2... | 5.258 | 32                  | 0.83  | 342.2 -> 55.3   | 981.6            | 1.04  |     | Naltrexone-D3           | 345.2 -> 327... | 5.298 | 216023      |  |              |  |
| Norbuprenorphine     | 414.3 -> 101... | 3/8/2017 8:21 PM | P2... |       |                     |       | 414.3 -> 57.3   |                  |       |     | Norbuprenorphine-D3     | 417.3 -> 101... | 6.028 | 32835       |  |              |  |
| Nordiazepam          | 271.1 -> 140... | 3/8/2017 8:21 PM | P2... | 6.816 | 122                 | 1.19  | 271.1 -> 208... | 790.3            | 2.58  |     | Nordiazepam-D5          | 276.1 -> 140... | 6.633 | 49872       |  |              |  |
| Nortentanyl          | 233.2 -> 84.2   | 3/8/2017 8:21 PM | P2... | 5.414 | 26                  | 0.50  | 233.2 -> 55.3   | 217.3            | 0.32  |     | Nortentanyl-D5          | 238.2 -> 84.2   | 5.495 | 633635      |  |              |  |
| Norhydrocodone       | 286.2 -> 199... | 3/8/2017 8:21 PM | P2... | 5.286 | 126                 | 1.85  | 286.2 -> 171... | 83.3             | 2.16  |     | Norhydrocodone-D3       | 289.2 -> 202... | 5.143 | 75684       |  |              |  |
| Noroxycodone         | 302.1 -> 284... | 3/8/2017 8:21 PM | P2... | 5.080 | 1036                | 1.69  | 302.1 -> 186... | 19.2             | 2.17  |     | Noroxycodone-D3         | 305.2 -> 287... | 5.059 | 138897      |  |              |  |
| O-desmethyl-tramadol | 250.2 -> 58.3   | 3/8/2017 8:21 PM | P2... | 5.087 | 1172                | 1.16  | 250.2 -> 42.3   | 4.5              | 0.44  |     | O-desmethyl-tramadol... | 256.2 -> 64.3   | 5.067 | 842969      |  |              |  |
| Oxazepam             | 287.1 -> 240... | 3/8/2017 8:21 PM | P2... | 6.303 | 117                 | 0.69  | 287.1 -> 268... | 249.2            | 0.46  |     | Oxazepam-D5             | 292.1 -> 246... | 6.466 | 49166       |  |              |  |
| Oxycodone            | 316.2 -> 298... | 3/8/2017 8:21 PM | P2... | 5.220 | 266                 | 1.23  | 316.2 -> 241... |                  |       |     | Oxycodone-D6            | 322.2 -> 304... | 5.199 | 255789      |  |              |  |
| Oxymorphone          | 302.1 -> 284... | 3/8/2017 8:21 PM | P2... | 4.515 | 617                 | 0.84  | 302.1 -> 227... |                  |       |     | Oxymorphone-D3          | 305.2 -> 287... | 4.493 | 196963      |  |              |  |
| Phenlemine           | 150.1 -> 65.2   | 3/8/2017 8:21 PM | P2... |       |                     |       | 150.1 -> 133... |                  |       |     | Phenlemine-D5           | 155.2 -> 96.2   | 5.274 | 244595      |  |              |  |
| Promethazine         | 285.1 -> 86.2   | 3/8/2017 8:21 PM | P2... | 6.893 | 575                 | 0.92  | 285.1 -> 71.3   | 181.8            | 0.87  |     | Promethazine-D3         | 288.2 -> 89.2   | 6.629 | 20749...    |  |              |  |
| Quetiapine           | 384.2 -> 253... | 3/8/2017 8:21 PM | P2... | 6.739 | 311                 | 2.76  | 384.2 -> 221... | 54.9             | 8.05  |     | Quetiapine-D8           | 392.2 -> 226... | 6.697 | 435481      |  |              |  |
| Sertraline           | 306.1 -> 158... | 3/8/2017 8:21 PM | P2... | 6.728 | 66                  | 0.24  | 306.1 -> 275... |                  |       |     | Sertraline-D3           | 309.1 -> 275... | 6.768 | 334873      |  |              |  |
| Sufentanil           | 387.2 -> 238... | 3/8/2017 8:21 PM | P2... | 6.799 | 1688                | 5.84  | 387.2 -> 111... | 108.5            | 5.62  |     | Sufentanil-D5           | 392.2 -> 238... | 6.819 | 10708...    |  |              |  |
| Temazepam            | 301.1 -> 255... | 3/8/2017 8:21 PM | P2... | 6.466 | 573                 | 0.64  | 301.1 -> 283... | 176.0            | 1.13  |     | Temazepam-D5            | 306.1 -> 280... | 6.607 | 369202      |  |              |  |

| Compound Method | p1 negative     |                  |       |       | p1 negative Results |      |    |                 | ISTD Method |      |                 |                 | ISTD Results |          |
|-----------------|-----------------|------------------|-------|-------|---------------------|------|----|-----------------|-------------|------|-----------------|-----------------|--------------|----------|
| Name            | Transition      | Acq. Date-Time   | Pos   | RT    | Resp.               | S/N  | MI | Transition      | Ratio       | S/N  | Name            | Transition      | RT           | Resp.    |
| Tamadol         | 264.2 -> 58.3   | 3/8/2017 8:21 PM | P2... | 5.635 | 4930                | 1.82 | 1  | 264.2 -> 43.3   | 10.4        | 0.46 | Tramadol-13C-D3 | 268.2 -> 58.3   | 5.614        | 10247... |
| Trazodone       | 372.2 -> 176... | 3/8/2017 8:21 PM | P2... | 6.901 | 3950                | 2.76 | 1  | 372.2 -> 148... | 83.8        | 2.55 | Trazodone-D6    | 378.2 -> 182... | 6.861        | 13254... |
| Venlafaxine     | 278.2 -> 58.3   | 3/8/2017 8:21 PM | P2... | 5.572 | 368                 | 0.40 | 1  | 278.2 -> 260... |             |      | Venlafaxine-D6  | 284.2 -> 64.3   | 5.979        | 10500... |
| Zolpidem        | 308.2 -> 235... | 3/8/2017 8:21 PM | P2... | 6.423 | 136                 | 0.61 | 1  | 308.2 -> 263... |             |      | Zolpidem-D6     | 314.2 -> 235... | 6.462        | 11987... |



| Compound Method | p1 external control a |                  |       | p1 external control a Results |          |          | ISTD Method |                  |       | ISTD Results |                 |                 |       |          |
|-----------------|-----------------------|------------------|-------|-------------------------------|----------|----------|-------------|------------------|-------|--------------|-----------------|-----------------|-------|----------|
| Name            | Transition            | Acq. Date-Time   | Pos.  | RT                            | Resp.    | S/N      | MI          | Qualifier 1 M... | Ratio | S/N          | Name            | Transition      | RT    | Resp.    |
| Tramadol        | 264.2 -> 58.3         | 3/8/2017 8:01 PM | P2-B3 | 5.635                         | 5713     | 4.16     |             | 264.2 -> 43.3    | 4.3   | 0.59         | Tramadol-13C-D3 | 268.2 -> 58.3   | 5.614 | 10700... |
| Trazodone       | 372.2 -> 176...       | 3/8/2017 8:01 PM | P2-B3 | 6.901                         | 32770... | Infinity |             | 372.2 -> 148...  | 70.3  | Infinity     | Trazodone-D6    | 378.2 -> 182... | 6.881 | 13446... |
| Venlafaxine     | 278.2 -> 58.3         | 3/8/2017 8:01 PM | P2-B3 | 5.939                         | 1489     | 1.21     |             | 278.2 -> 260...  |       |              | Venlafaxine-D6  | 284.2 -> 64.3   | 5.979 | 10941... |
| Zolpidem        | 308.2 -> 235...       | 3/8/2017 8:01 PM | P2-B3 | 6.647                         | 1503     | 2.32     |             | 308.2 -> 263...  | 23.4  | 1.47         | Zolpidem-D6     | 314.2 -> 235... | 6.462 | 12001... |

| Compound Method                |                 |                  | p2 cal 1b |        |           | p2 cal 1b Results |                  |          | ISTD Method  |                           |                 |       |          |
|--------------------------------|-----------------|------------------|-----------|--------|-----------|-------------------|------------------|----------|--------------|---------------------------|-----------------|-------|----------|
| Name                           | Transition      | Acq. Date-Time   | RT        | Resp.  | S/N       | Calc. Conc.       | Qualifier 1 M... | S/N      | Qualifier... | Name                      | Transition      | RT    | Resp.    |
| 7-aminoflunitrazepam           | 284.1 -> 135... | 3/8/2017 7:51 PM | 5.804     | 40467  | 36.07     |                   | 284.1 -> 93.2    | 5240.16  |              | 7-aminoflunitrazepam-D7   | 291.2 -> 138... | 5.783 | 232697   |
| alpha-hydroxymidazolam         | 342.1 -> 324... | 3/8/2017 7:51 PM | 6.529     | 55689  | 1102.1... |                   | 342.1 -> 203.    | 86.05    |              | alpha-hydroxymidazolam... | 346.1 -> 328... | 6.528 | 298364   |
| Amtripyline                    | 278.2 -> 91.2   | 3/8/2017 7:51 PM | 6.701     | 243476 | Infinity  |                   | 278.2 -> 105.    | Infinity |              | Amtripyline-D3            | 281.2 -> 91.2   | 6.680 | 508176   |
| Amoxapine                      | 314.1 -> 271... | 3/8/2017 7:51 PM | 6.655     | 56679  | 194.82    |                   | 314.1 -> 193.    | 28.90    |              | Amtripyline-D3            | 281.2 -> 91.2   | 6.680 | 508176   |
| Benzoylcegonine                | 290.1 -> 168... | 3/8/2017 7:51 PM | 5.414     | 15707  | 150.53    |                   | 290.1 -> 105.    | 53.81    |              | Benzoylcegonine-D8        | 298.2 -> 171... | 5.393 | 5323     |
| Carbamazepine                  | 237.1 -> 193... | 3/8/2017 7:51 PM | 6.219     | 25021  | 33.93     |                   | 237.1 -> 194.    | Infinity |              | Carbamazepine-13C6        | 243.1 -> 200... | 6.218 | 11776... |
| Chlordiazepoxide               | 300.1 -> 227... | 3/8/2017 7:51 PM | 6.677     | 14282  | 12.32     |                   | 300.1 -> 282...  | 10.33    |              | Chlordiazepoxide-D5       | 305.1 -> 286... | 6.677 | 148893   |
| Cloimpramine                   | 315.2 -> 86.2   | 3/8/2017 7:51 PM | 6.977     | 347560 | 441.62    |                   | 315.2 -> 58.3    | 221.97   |              | Cloimpramine-D3           | 318.2 -> 89.2   | 6.956 | 19320... |
| Cocaine                        | 304.2 -> 182... | 3/8/2017 7:51 PM | 5.842     | 159936 | Infinity  |                   | 304.2 -> 105...  | 34.07    |              | Cocaine-D3                | 307.2 -> 185... | 5.821 | 641651   |
| Desipramine                    | 267.2 -> 72.3   | 3/8/2017 7:51 PM | 6.561     | 263392 | 56273...  |                   | 267.2 -> 44.3    | 123.78   |              | Desipramine-D3            | 270.2 -> 75.3   | 6.561 | 13005... |
| Doxepin                        | 280.2 -> 107... | 3/8/2017 7:51 PM | 6.397     | 112759 | 10871...  |                   | 280.2 -> 77.2    | Infinity |              | Doxepin-D3                | 283.2 -> 107... | 6.376 | 590695   |
| Estazolam                      | 295.1 -> 267... | 3/8/2017 7:51 PM | 6.475     | 52548  | 517.27    |                   | 295.1 -> 205.    | 227.57   |              | Estazolam-D5              | 300.1 -> 272... | 6.474 | 263122   |
| Flunitrazepam                  | 314.1 -> 268... | 3/8/2017 7:51 PM | 6.513     | 50699  | 209.56    |                   | 314.1 -> 239...  | 47.99    |              | Flunitrazepam-D7          | 321.1 -> 245... | 6.491 | 10238    |
| Flurazepam                     | 388.2 -> 315... | 3/8/2017 7:51 PM | 6.506     | 148391 | 33188...  |                   | 388.2 -> 317...  | 583.26   |              | Zopiclone-D4              | 393.1 -> 244... | 6.446 | 86980    |
| Imipramine                     | 281.2 -> 86.2   | 3/8/2017 7:51 PM | 6.639     | 378779 | 606.45    |                   | 281.2 -> 58.3    | Infinity |              | Imipramine-D3             | 284.2 -> 61.3   | 6.639 | 10606... |
| Levamisole                     | 205.1 -> 91.2   | 3/8/2017 7:51 PM | 5.407     | 34315  | Infinity  |                   | 205.1 -> 178.    | 298.27   |              | Cocaine-D3                | 307.2 -> 185... | 5.821 | 641651   |
| Maprotiline                    | 278.2 -> 91.2   | 3/8/2017 7:51 PM | 6.234     | 8916   | Infinity  |                   | 278.2 -> 117...  | Infinity |              | Meperidine-D4             | 252.2 -> 224... | 5.871 | 276131   |
| MDA                            | 180.1 -> 163... | 3/8/2017 7:51 PM | 5.165     | 37712  | Infinity  |                   | 180.1 -> 105...  | 33.99    |              | MDA-D5                    | 185.1 -> 168... | 5.145 | 202765   |
| MDEA                           | 208.1 -> 163... | 3/8/2017 7:51 PM | 5.447     | 99963  | 67.72     |                   | 208.1 -> 105...  | 29.08    |              | MDEA-D6                   | 214.2 -> 166... | 5.447 | 539120   |
| MDMA                           | 194.1 -> 163... | 3/8/2017 7:51 PM | 5.305     | 74022  | 65.89     |                   | 194.1 -> 105...  | 175.10   |              | MDMA-D6                   | 200.2 -> 166... | 5.285 | 44382    |
| Meperidine                     | 248.2 -> 220... | 3/8/2017 7:51 PM | 5.851     | 55642  | Infinity  |                   | 248.2 -> 174...  | 2588.08  |              | Meperidine-D4             | 252.2 -> 224... | 5.871 | 276131   |
| Methylphenidate                | 234.2 -> 84.2   | 3/8/2017 7:51 PM | 5.751     | 241455 | 665.75    |                   | 234.2 -> 56.3    | Infinity |              | Meperidine-D4             | 252.2 -> 224... | 5.871 | 276131   |
| Metoprolol                     | 268.2 -> 116... | 3/8/2017 7:51 PM | 5.622     | 26919  | 12800...  |                   | 268.2 -> 56.3    | 53.12    |              | Meperidine-D4             | 252.2 -> 224... | 5.871 | 276131   |
| Midazolam                      | 326.1 -> 223... | 3/8/2017 7:51 PM | 6.713     | 23338  | 175.05    |                   | 326.1 -> 249...  | 105.50   |              | Midazolam-D4              | 330.1 -> 295... | 6.692 | 400622   |
| Mirtazapine                    | 266.2 -> 195... | 3/8/2017 7:51 PM | 6.440     | 189535 | 15274...  |                   | 266.2 -> 72.3    | 32.04    |              | Midazolam-D4              | 330.1 -> 295... | 6.692 | 400622   |
| Mitragynine                    | 399.2 -> 174... | 3/8/2017 7:51 PM | 6.486     | 69577  | 364.83    |                   | 399.2 -> 238.    | 1587.24  |              | Carbamazepine-13C6        | 243.1 -> 200... | 6.218 | 11776... |
| Normeperidine                  | 234.1 -> 42.3   | 3/8/2017 7:51 PM | 5.792     | 68986  | Infinity  |                   | 234.1 -> 160.    | 20613... |              | Normeperidine-D4          | 238.2 -> 164... | 5.771 | 260718   |
| Norpropoxyphene                | 326.2 -> 44.3   | 3/8/2017 7:51 PM | 6.409     | 30660  | 81.72     |                   | 326.2 -> 252...  | 1395.73  |              | Norpropoxyphene-D5        | 331.2 -> 44.3   | 6.408 | 136687   |
| Nortriptyline                  | 264.2 -> 91.2   | 3/8/2017 7:51 PM | 6.502     | 386871 | 2302.66   |                   | 264.2 -> 233...  | 63226... |              | Nortriptyline-D3          | 267.2 -> 233... | 6.601 | 477406   |
| Ondansetron                    | 294.2 -> 184... | 3/8/2017 7:51 PM | 6.129     | 88885  | 146.93    |                   | 294.2 -> 212...  | 10068... |              | Pentazocine-13C3          | 289.2 -> 72.3   | 5.845 | 425047   |
| Pentazocine                    | 286.2 -> 218... | 3/8/2017 7:51 PM | 5.866     | 107290 | 981.44    |                   | 286.2 -> 41.3    | Infinity |              | Pentazocine-13C3          | 289.2 -> 72.3   | 5.845 | 425047   |
| Phenazepam                     | 349.0 -> 206... | 3/8/2017 7:51 PM | 6.589     | 37246  | 374.70    |                   | 349.0 -> 183.    | 84.72    |              | Phenazepam-D4             | 353.0 -> 183... | 6.588 | 12146    |
| Phencyclidine                  | 244.2 -> 86.2   | 3/8/2017 7:51 PM | 6.096     | 177027 | Infinity  |                   | 244.2 -> 91.1    | 52.14    |              | Phencyclidine-D5          | 249.2 -> 86.2   | 6.075 | 879242   |
| Phenylethylamine not evaluated | 253.1 -> 104... | 3/8/2017 7:51 PM | 6.135     | 1642   | 0.78      |                   | 253.1 -> 182...  | 8.78     |              | Phenylethylamine-D10      | 263.2 -> 192... | 6.115 | 13809    |
| Praxepam                       | 325.1 -> 271... | 3/8/2017 7:51 PM | 7.036     | 192285 | Infinity  |                   | 325.1 -> 140...  | 169.05   |              | Praxepam-D5               | 330.1 -> 276... | 7.014 | 922895   |
| Primidone                      | 219.1 -> 91.2   | 3/8/2017 7:51 PM | 5.487     | 6931   | 7.79      |                   | 219.1 -> 162...  | 31.12    |              | Praxepam-D5               | 330.1 -> 276... | 7.014 | 922895   |
| Propoxyphene                   | 340.2 -> 58.3   | 3/8/2017 7:51 PM | 6.489     | 224621 | Infinity  |                   | 340.2 -> 266...  | 594.88   |              | Propoxyphene-D11          | 351.3 -> 277... | 6.467 | 279823   |
| Protriptyline                  | 264.2 -> 155... | 3/8/2017 7:51 PM | 6.502     | 634129 | 768.51    |                   | 264.2 -> 161...  | Infinity |              | Nortriptyline-D3          | 267.2 -> 233... | 6.601 | 477406   |
| Pseudoephedrine                | 166.1 -> 148... | 3/8/2017 7:51 PM | 4.783     | 787936 | 2158.90   |                   | 166.1 -> 133.    | Infinity |              | Pseudoephedrine-D3        | 169.1 -> 151... | 4.782 | 398446   |
| Tapentadol                     | 222.2 -> 107... | 3/8/2017 7:51 PM | 5.629     | 150635 | 124.29    |                   | 222.2 -> 121...  | 665.34   |              | Tapentadol-D3             | 225.2 -> 107... | 5.629 | 760574   |
| Trimipramine                   | 295.2 -> 100... | 3/8/2017 7:51 PM | 6.739     | 418779 | 44618...  |                   | 295.2 -> 58.3    | Infinity |              | Trimipramine-D3           | 298.2 -> 103... | 6.738 | 20770... |
| Verapamil                      | 455.3 -> 165... | 3/8/2017 7:51 PM | 6.465     | 209491 | 227.79    |                   | 455.3 -> 150.    | 626.66   |              | Trimipramine-D3           | 298.2 -> 103... | 6.738 | 20770... |
| Zaleplon                       | 306.1 -> 236... | 3/8/2017 7:51 PM | 6.310     | 60837  | 7275.62   |                   | 306.1 -> 264...  | 170.72   |              | Zaleplon-D4               | 310.2 -> 240... | 6.310 | 226565   |
| Zopiclone                      | 389.1 -> 244... | 3/8/2017 7:51 PM | 6.446     | 31641  | Infinity  |                   | 389.1 -> 216...  | Infinity |              | Zopiclone-D4              | 393.1 -> 244... | 6.446 | 86980    |

| Compound Method        |                 | p2 external control |       |        | p2 external control Results |             |                 | Qualifier 1 M... |                           |                 | ISTD Method |         |       | ISTD Results |  |
|------------------------|-----------------|---------------------|-------|--------|-----------------------------|-------------|-----------------|------------------|---------------------------|-----------------|-------------|---------|-------|--------------|--|
| Name                   | Transition      | Acq. Date-Time      | RT    | Resp.  | S/N                         | Calc. Conc. | Transition      | S/N              | Qualifi...                | Name            | Transition  | RT      | Resp. |              |  |
| 7-aminoflunitrazepam   | 284.1 -> 135... | 3/8/2017 8:11 PM    | 5.968 | 826    | 3.69                        |             | 284.1 -> 93.2   | 3.46             | 7-aminoflunitrazepam-D7   | 291.2 -> 138... | 5.783       | 166559  |       |              |  |
| alpha-hydroxymidazolam | 342.1 -> 324... | 3/8/2017 8:11 PM    | 6.569 | 59     | 0.48                        |             | 342.1 -> 203... | 1.82             | alpha-hydroxymidazolam... | 346.1 -> 328... | 6.529       | 341670  |       |              |  |
| Amitriptyline          | 278.2 -> 91.2   | 3/8/2017 8:11 PM    | 6.762 | 1234   | 0.43                        |             | 278.2 -> 105... | 0.83             | Amitriptyline-D3          | 281.2 -> 91.2   | 6.680       | 516955  |       |              |  |
| Amoxapine              | 314.1 -> 271... | 3/8/2017 8:11 PM    | 6.533 | 841    | 2.08                        |             | 314.1 -> 193... | Infinity         | Amitriptyline-D3          | 281.2 -> 91.2   | 6.680       | 516955  |       |              |  |
| Benzoyllecgonine       | 290.1 -> 168... | 3/8/2017 8:11 PM    |       |        |                             |             | 290.1 -> 105... | Infinity         | Benzoyllecgonine-D8       | 298.2 -> 171... | 5.413       | 6537    |       |              |  |
| Carbamazepine          | 237.1 -> 193... | 3/8/2017 8:11 PM    | 6.403 | 72     | 0.33                        |             | 237.1 -> 194... | 1.25             | Carbamazepine-13C6        | 243.1 -> 200... | 6.218       | 1264483 |       |              |  |
| Chlordiazepoxide       | 300.1 -> 227... | 3/8/2017 8:11 PM    | 6.474 | 541    | 1.46                        |             | 300.1 -> 282... | 0.26             | Chlordiazepoxide-D5       | 305.1 -> 286... | 6.677       | 178798  |       |              |  |
| Clomipramine           | 315.2 -> 86.2   | 3/8/2017 8:11 PM    | 6.917 | 131    | 1.12                        |             | 315.2 -> 58.3   | 1.28             | Clomipramine-D3           | 318.2 -> 89.2   | 6.956       | 1725543 |       |              |  |
| Cocaine                | 304.2 -> 182... | 3/8/2017 8:11 PM    | 5.822 | 445    | 0.45                        |             | 304.2 -> 105... |                  | Cocaine-D3                | 307.2 -> 185... | 5.821       | 692710  |       |              |  |
| Desipramine            | 267.2 -> 72.3   | 3/8/2017 8:11 PM    | 6.561 | 2482   | 3.79                        |             | 267.2 -> 44.3   | 389.44           | Desipramine-D3            | 270.2 -> 75.3   | 6.561       | 1376777 |       |              |  |
| Doxepin                | 280.2 -> 107... | 3/8/2017 8:11 PM    | 6.254 | 57     | 0.60                        |             | 280.2 -> 77.2   |                  | Doxepin-D3                | 283.2 -> 107... | 6.376       | 640768  |       |              |  |
| Estazolam              | 295.1 -> 267... | 3/8/2017 8:11 PM    | 6.455 | 166    | 3.62                        |             | 295.1 -> 205... | 0.70             | Estazolam-D5              | 300.1 -> 272... | 6.474       | 292867  |       |              |  |
| Flunitrazepam          | 314.1 -> 268... | 3/8/2017 8:11 PM    | 6.533 | 1436   | 1.25                        |             | 314.1 -> 239... |                  | Flunitrazepam-D7          | 321.1 -> 245... | 6.512       | 13285   |       |              |  |
| Flurazepam             | 388.2 -> 315... | 3/8/2017 8:11 PM    |       |        |                             |             | 388.2 -> 317... |                  | Zopiclone-D4              | 393.1 -> 244... | 6.446       | 100542  |       |              |  |
| Imipramine             | 281.2 -> 86.2   | 3/8/2017 8:11 PM    | 6.639 | 4054   | Infinity                    |             | 281.2 -> 58.3   | 1.37             | Imipramine-D3             | 284.2 -> 61.3   | 6.639       | 1120701 |       |              |  |
| Levamisole             | 205.1 -> 91.2   | 3/8/2017 8:11 PM    |       |        |                             |             | 205.1 -> 178... |                  | Cocaine-D3                | 307.2 -> 185... | 5.821       | 692710  |       |              |  |
| Maprotiline            | 278.2 -> 91.2   | 3/8/2017 8:11 PM    | 6.112 | 155    | 0.16                        |             | 278.2 -> 117... | 0.55             | Meperidine-D4             | 252.2 -> 224... | 5.871       | 291981  |       |              |  |
| MDA                    | 180.1 -> 163... | 3/8/2017 8:11 PM    |       |        |                             |             | 180.1 -> 105... | 0.55             | MDA-D5                    | 185.1 -> 168... | 5.145       | 216495  |       |              |  |
| MDEA                   | 208.1 -> 163... | 3/8/2017 8:11 PM    | 5.344 | 98     | 0.49                        |             | 208.1 -> 105... | 0.55             | MDEA-D6                   | 214.2 -> 166... | 5.447       | 569437  |       |              |  |
| MDMA                   | 194.1 -> 163... | 3/8/2017 8:11 PM    |       |        |                             |             | 194.1 -> 105... |                  | MDMA-D6                   | 200.2 -> 166... | 5.285       | 48455   |       |              |  |
| Meperidine             | 248.2 -> 220... | 3/8/2017 8:11 PM    | 5.872 | 477207 | Infinity                    |             | 248.2 -> 174... | 74.35            | Meperidine-D4             | 252.2 -> 224... | 5.871       | 291981  |       |              |  |
| Methylphenidate        | 234.2 -> 84.2   | 3/8/2017 8:11 PM    |       |        |                             |             | 234.2 -> 56.3   |                  | Meperidine-D4             | 252.2 -> 224... | 5.871       | 291981  |       |              |  |
| Melprolrol             | 268.2 -> 116... | 3/8/2017 8:11 PM    |       |        |                             |             | 268.2 -> 56.3   |                  | Meperidine-D4             | 252.2 -> 224... | 5.871       | 291981  |       |              |  |
| Midazolam              | 326.1 -> 223... | 3/8/2017 8:11 PM    |       |        |                             |             | 326.1 -> 249... |                  | Midazolam-D4              | 330.1 -> 295... | 6.692       | 426943  |       |              |  |
| Mirtazapine            | 266.2 -> 195... | 3/8/2017 8:11 PM    |       |        |                             |             | 266.2 -> 72.3   |                  | Midazolam-D4              | 330.1 -> 295... | 6.692       | 426943  |       |              |  |
| Mirtazapine            | 399.2 -> 174... | 3/8/2017 8:11 PM    |       |        |                             |             | 399.2 -> 238... |                  | Carbamazepine-13C6        | 243.1 -> 200... | 6.218       | 1264483 |       |              |  |
| Normeperidine          | 234.1 -> 42.3   | 3/8/2017 8:11 PM    | 5.628 | 53281  | 19.83                       |             | 234.1 -> 160... | 1.52             | Normeperidine-D4          | 238.2 -> 164... | 5.791       | 288422  |       |              |  |
| Norpropoxyphene        | 326.2 -> 44.3   | 3/8/2017 8:11 PM    | 6.571 | 43     | 0.51                        |             | 326.2 -> 252... |                  | Norpropoxyphene-D5        | 331.2 -> 44.3   | 6.408       | 129656  |       |              |  |
| Nortriptyline          | 264.2 -> 91.2   | 3/8/2017 8:11 PM    | 6.623 | 6854   | 11.59                       |             | 264.2 -> 233... | 6.21             | Nortriptyline-D3          | 267.2 -> 233... | 6.601       | 499595  |       |              |  |
| Ondansetron            | 294.2 -> 184... | 3/8/2017 8:11 PM    |       |        |                             |             | 294.2 -> 212... |                  | Pentazocine-13C3          | 289.2 -> 72.3   | 5.845       | 451729  |       |              |  |
| Pentazocine            | 286.2 -> 218... | 3/8/2017 8:11 PM    |       |        |                             |             | 286.2 -> 41.3   |                  | Pentazocine-13C3          | 289.2 -> 72.3   | 5.845       | 451729  |       |              |  |
| Phenazepam             | 349.0 -> 206... | 3/8/2017 8:11 PM    | 6.528 | 1802   | 366.32                      |             | 349.0 -> 183... | 1.75             | Phenazepam-D4             | 353.0 -> 183... | 6.588       | 14152   |       |              |  |
| Phencyclidine          | 244.2 -> 86.2   | 3/8/2017 8:11 PM    |       |        |                             |             | 244.2 -> 91.1   |                  | Phencyclidine-D5          | 249.2 -> 86.2   | 6.095       | 916692  |       |              |  |
| Phenyloln              | 253.1 -> 104... | 3/8/2017 8:11 PM    | 6.095 | 753    | 1.32                        |             | 253.1 -> 182... |                  | Phenyloln-D10             | 263.2 -> 192... | 6.115       | 14201   |       |              |  |
| Praxeepam              | 325.1 -> 271... | 3/8/2017 8:11 PM    | 7.036 | 90     | 0.42                        |             | 325.1 -> 140... | 0.34             | Praxeepam-D5              | 330.1 -> 276... | 7.014       | 930349  |       |              |  |
| Primidone              | 219.1 -> 91.2   | 3/8/2017 8:11 PM    |       |        |                             |             | 219.1 -> 162... |                  | Praxeepam-D5              | 330.1 -> 276... | 7.014       | 930349  |       |              |  |
| Propoxyphene           | 340.2 -> 58.3   | 3/8/2017 8:11 PM    | 6.469 | 126    | 0.39                        |             | 340.2 -> 266... | 0.66             | Propoxyphene-D11          | 351.3 -> 277... | 6.467       | 299323  |       |              |  |
| Protriptyline          | 264.2 -> 155... | 3/8/2017 8:11 PM    | 6.441 | 138    | 0.34                        |             | 264.2 -> 161... |                  | Nortriptyline-D3          | 267.2 -> 233... | 6.601       | 499595  |       |              |  |
| Pseudoephedrine        | 166.1 -> 148... | 3/8/2017 8:11 PM    |       |        |                             |             | 166.1 -> 133... |                  | Pseudoephedrine-D3        | 169.1 -> 151... | 4.782       | 346996  |       |              |  |
| Tapentadol             | 222.2 -> 107... | 3/8/2017 8:11 PM    |       |        |                             |             | 222.2 -> 121... |                  | Tapentadol-D3             | 225.2 -> 107... | 5.629       | 810203  |       |              |  |
| Trimipramine           | 295.2 -> 100... | 3/8/2017 8:11 PM    | 6.678 | 353    | 1.99                        |             | 295.2 -> 58.3   |                  | Trimipramine-D3           | 298.2 -> 103... | 6.738       | 2252135 |       |              |  |
| Verapamil              | 455.3 -> 165... | 3/8/2017 8:11 PM    | 6.546 | 23     | 0.61                        |             | 455.3 -> 150... |                  | Trimipramine-D3           | 298.2 -> 103... | 6.738       | 2252135 |       |              |  |
| Zaleplon               | 306.1 -> 236... | 3/8/2017 8:11 PM    |       |        |                             |             | 306.1 -> 264... |                  | Zaleplon-D4               | 310.2 -> 240... | 6.310       | 243213  |       |              |  |
| Zopiclone              | 389.1 -> 244... | 3/8/2017 8:11 PM    | 6.466 | 10591  | Infinity                    |             | 389.1 -> 216... |                  | Zopiclone-D4              | 393.1 -> 244... | 6.446       | 100542  |       |              |  |

1/3 control response

| Compound Method        | p2 negative     |                  |       | p2 negative Results |       |             | Qualifier 1 M... |       |          | ISTD Method                |                 |       | ISTD Results |  |  |
|------------------------|-----------------|------------------|-------|---------------------|-------|-------------|------------------|-------|----------|----------------------------|-----------------|-------|--------------|--|--|
| Name                   | Transition      | Acq. Date-Time   | RT    | Resp.               | S/N   | Calc. Conc. | Transition       | S/N   | Quali... | Name                       | Transition      | RT    | Resp.        |  |  |
| 7-aminoflunitrazepam   | 284.1 -> 135... | 3/8/2017 8:30 PM | 5.722 | 126                 | 0.55  |             | 284.1 -> 93.2    |       |          | 7-aminoflunitrazepam-D7    | 291.2 -> 138... | 5.783 | 166819       |  |  |
| alpha-hydroxymidazolam | 342.1 -> 324... | 3/8/2017 8:30 PM | 6.468 | 39                  | 0.30  |             | 342.1 -> 203...  | 1.21  |          | alpha-hydroxymidazolam-... | 346.1 -> 328... | 6.529 | 337519       |  |  |
| Amiripylone            | 278.2 -> 91.2   | 3/8/2017 8:30 PM | 6.701 | 676                 | 0.98  |             | 278.2 -> 105...  | 0.86  |          | Amiripylone-D3             | 281.2 -> 91.2   | 6.680 | 528263       |  |  |
| Amoxapine              | 314.1 -> 271... | 3/8/2017 8:30 PM | 6.817 | 48                  | 0.81  |             | 314.1 -> 193...  |       |          | Amiripylone-D3             | 281.2 -> 91.2   | 6.680 | 528263       |  |  |
| Benzylecgonine         | 290.1 -> 168... | 3/8/2017 8:30 PM | 5.577 | 52                  | 0.58  |             | 290.1 -> 105...  | 1.23  |          | Benzylecgonine-D8          | 298.2 -> 171... | 5.393 | 4947         |  |  |
| Carbamazepine          | 237.1 -> 193... | 3/8/2017 8:30 PM | 6.117 | 353                 | 0.89  |             | 237.1 -> 194...  |       |          | Carbamazepine-13C6         | 243.1 -> 200... | 6.218 | 12611...     |  |  |
| Chlordiazepoxide       | 300.1 -> 227... | 3/8/2017 8:30 PM | 6.474 | 547                 | 5.13  |             | 300.1 -> 282...  | 0.67  |          | Chlordiazepoxide-D5        | 305.1 -> 286... | 6.677 | 186216       |  |  |
| Cloimipramine          | 315.2 -> 86.2   | 3/8/2017 8:30 PM |       |                     |       |             | 315.2 -> 58.3    |       |          | Cloimipramine-D3           | 318.2 -> 89.2   | 6.956 | 19273...     |  |  |
| Cocaine                | 304.2 -> 182... | 3/8/2017 8:30 PM |       |                     |       |             | 304.2 -> 105...  |       |          | Cocaine-D3                 | 307.2 -> 185... | 5.821 | 628680       |  |  |
| Desipramine            | 267.2 -> 72.3   | 3/8/2017 8:30 PM | 6.541 | 3125                | 3.14  |             | 267.2 -> 44.3    | 6.57  |          | Desipramine-D3             | 270.2 -> 75.3   | 6.540 | 13924...     |  |  |
| Doxepin                | 280.2 -> 107... | 3/8/2017 8:30 PM | 6.539 | 692                 | 0.64  |             | 280.2 -> 77.2    | 3.48  |          | Doxepin-D3                 | 283.2 -> 107... | 6.376 | 629579       |  |  |
| Estazolam              | 295.1 -> 267... | 3/8/2017 8:30 PM | 6.251 | 60                  | 1.18  |             | 295.1 -> 205...  | 0.79  |          | Estazolam-D5               | 300.1 -> 272... | 6.474 | 292301       |  |  |
| Flunitrazepam          | 314.1 -> 268... | 3/8/2017 8:30 PM | 6.513 | 925                 | 0.85  |             | 314.1 -> 239...  | 1.26  |          | Flunitrazepam-D7           | 321.1 -> 245... | 6.512 | 11696        |  |  |
| Flurazepam             | 388.2 -> 315... | 3/8/2017 8:30 PM | 6.406 | 45                  | 0.35  |             | 388.2 -> 317...  |       |          | Zopiclone-D4               | 393.1 -> 244... | 6.446 | 30015        |  |  |
| Imipramine             | 281.2 -> 86.2   | 3/8/2017 8:30 PM | 6.639 | 3798                | 12.03 |             | 281.2 -> 58.3    | 1.42  |          | Imipramine-D3              | 284.2 -> 61.3   | 6.639 | 10845...     |  |  |
| Levamisole             | 205.1 -> 91.2   | 3/8/2017 8:30 PM |       |                     |       |             | 205.1 -> 178...  |       |          | Cocaine-D3                 | 307.2 -> 185... | 5.821 | 628680       |  |  |
| Maprotiline            | 278.2 -> 91.2   | 3/8/2017 8:30 PM | 6.438 | 1101                | 0.77  |             | 278.2 -> 117...  | 0.53  |          | Meperidine-D4              | 252.2 -> 224... | 5.871 | 291700       |  |  |
| MDA                    | 180.1 -> 163... | 3/8/2017 8:30 PM | 5.125 | 138                 | 0.68  |             | 180.1 -> 105...  | 5.10  |          | Meperidine-D4              | 252.2 -> 224... | 5.871 | 291700       |  |  |
| MDEA                   | 208.1 -> 163... | 3/8/2017 8:30 PM | 5.243 | 164                 | 0.24  |             | 208.1 -> 105...  | 1.00  |          | MDA-D5                     | 185.1 -> 168... | 5.145 | 204705       |  |  |
| MDMA                   | 194.1 -> 163... | 3/8/2017 8:30 PM |       |                     |       |             | 194.1 -> 105...  |       |          | MDEA-D6                    | 214.2 -> 166... | 5.426 | 535074       |  |  |
| Meperidine             | 248.2 -> 220... | 3/8/2017 8:30 PM |       |                     |       |             | 248.2 -> 174...  |       |          | MDMA-D6                    | 200.2 -> 166... | 5.285 | 44901        |  |  |
| Methylphenidate        | 234.2 -> 84.2   | 3/8/2017 8:30 PM | 5.771 | 301                 | 0.46  |             | 234.2 -> 56.3    |       |          | Meperidine-D4              | 252.2 -> 224... | 5.871 | 291700       |  |  |
| Metoprolol             | 268.2 -> 116... | 3/8/2017 8:30 PM |       |                     |       |             | 268.2 -> 56.3    |       |          | Meperidine-D4              | 252.2 -> 224... | 5.871 | 291700       |  |  |
| Midazolam              | 326.1 -> 223... | 3/8/2017 8:30 PM | 6.592 | 21                  | 0.55  |             | 326.1 -> 249...  | 0.39  |          | Meperidine-D4              | 252.2 -> 224... | 5.871 | 291700       |  |  |
| Miltazapine            | 266.2 -> 195... | 3/8/2017 8:30 PM | 6.400 | 122                 | 0.82  |             | 266.2 -> 72.3    |       |          | Midazolam-D4               | 330.1 -> 295... | 6.692 | 417560       |  |  |
| Mitragynine            | 399.2 -> 174... | 3/8/2017 8:30 PM |       |                     |       |             | 399.2 -> 238...  |       |          | Midazolam-D4               | 330.1 -> 295... | 6.692 | 417560       |  |  |
| Normeperidine          | 234.1 -> 42.3   | 3/8/2017 8:30 PM | 5.690 | 44                  | 1.25  |             | 234.1 -> 160...  | 0.19  |          | Carbamazepine-13C6         | 243.1 -> 200... | 6.218 | 12611...     |  |  |
| Norpropoxyphene        | 326.2 -> 44.3   | 3/8/2017 8:30 PM |       |                     |       |             | 326.2 -> 252...  |       |          | Normeperidine-D4           | 238.2 -> 164... | 5.771 | 292379       |  |  |
| Nortriptyline          | 264.2 -> 91.2   | 3/8/2017 8:30 PM | 6.623 | 8657                | 8.80  |             | 264.2 -> 233...  | 0.39  |          | Normeperidine-D5           | 331.2 -> 44.3   | 6.408 | 111097       |  |  |
| Ondansetron            | 294.2 -> 184... | 3/8/2017 8:30 PM | 6.313 | 149                 | 48.01 |             | 294.2 -> 212...  |       |          | Nortriptyline-D3           | 267.2 -> 233... | 6.601 | 494639       |  |  |
| Pentazocine            | 286.2 -> 218... | 3/8/2017 8:30 PM |       |                     |       |             | 286.2 -> 41.3    |       |          | Pentazocine-13C3           | 289.2 -> 72.3   | 5.845 | 462638       |  |  |
| Phenazepam             | 349.0 -> 206... | 3/8/2017 8:30 PM | 6.548 | 1763                | 20.23 |             | 349.0 -> 183...  |       |          | Pentazocine-13C3           | 289.2 -> 72.3   | 5.845 | 462638       |  |  |
| Phencyclidine          | 244.2 -> 86.2   | 3/8/2017 8:30 PM | 6.055 | 852                 | 0.92  |             | 244.2 -> 91.1    | 5.34  |          | Phenazepam-D4              | 353.0 -> 183... | 6.568 | 12789        |  |  |
| Phenyltolin            | 253.1 -> 104... | 3/8/2017 8:30 PM | 6.217 | 55                  | 0.52  |             | 253.1 -> 182...  |       |          | Phencyclidine-D5           | 249.2 -> 86.2   | 6.075 | 885890       |  |  |
| Prazepam               | 325.1 -> 271... | 3/8/2017 8:30 PM | 7.036 | 28                  | 0.42  |             | 325.1 -> 140...  | 0.33  |          | Phenyltolin-D10            | 263.2 -> 192... | 6.115 | 15070        |  |  |
| Primidone              | 219.1 -> 91.2   | 3/8/2017 8:30 PM |       |                     |       |             | 219.1 -> 162...  |       |          | Prazepam-D5                | 330.1 -> 276... | 7.014 | 905875       |  |  |
| Propoxyphene           | 340.2 -> 58.3   | 3/8/2017 8:30 PM | 6.327 | 566                 | 1.23  |             | 340.2 -> 266...  |       |          | Prazepam-D5                | 330.1 -> 276... | 7.014 | 905875       |  |  |
| Protriptyline          | 264.2 -> 155... | 3/8/2017 8:30 PM | 6.522 | 188                 | 0.41  |             | 264.2 -> 161...  | 31.23 |          | Propoxyphene-D11           | 351.3 -> 277... | 6.467 | 288216       |  |  |
| Pseudoephedrine        | 166.1 -> 148... | 3/8/2017 8:30 PM | 4.762 | 185                 | 0.61  |             | 166.1 -> 133...  |       |          | Nortriptyline-D3           | 267.2 -> 233... | 6.601 | 494639       |  |  |
| Tapentadol             | 222.2 -> 107... | 3/8/2017 8:30 PM | 5.609 | 471                 | 1.51  |             | 222.2 -> 121...  | 8.33  |          | Pseudoephedrine-D3         | 169.1 -> 151... | 4.782 | 372397       |  |  |
| Trimipramine           | 295.2 -> 100... | 3/8/2017 8:30 PM | 6.617 | 125                 | 0.36  |             | 295.2 -> 58.3    | 2.81  |          | Tapentadol-D3              | 225.2 -> 107... | 5.629 | 831224       |  |  |
| Verapamil              | 455.3 -> 165... | 3/8/2017 8:30 PM | 6.384 | 25                  | 0.70  |             | 455.3 -> 150...  |       |          | Trimipramine-D3            | 298.2 -> 103... | 6.718 | 20937...     |  |  |
| Zaleplon               | 306.1 -> 236... | 3/8/2017 8:30 PM | 6.412 | 27                  | 0.29  |             | 306.1 -> 264...  | 0.91  |          | Trimipramine-D3            | 298.2 -> 103... | 6.718 | 20937...     |  |  |
| Zopiclone              | 389.1 -> 244... | 3/8/2017 8:30 PM | 6.080 | 177                 | 0.59  |             | 389.1 -> 216...  | 1.35  |          | Zaleplon-D4                | 310.2 -> 240... | 6.310 | 256930       |  |  |
|                        |                 |                  |       |                     |       |             |                  |       |          | Zopiclone-D4               | 393.1 -> 244... | 6.446 | 30015        |  |  |