

REVIEWED

By Anne Nord at 4:39 pm, Sep 10, 2018

9/4/2018 *TSP*

Worklist: 2674

| <u>LAB CASE</u> | <u>ITEM</u> | <u>TASK ID</u> | <u>DESCRIPTION</u> |
|-----------------|-------------|----------------|---|
| P2018-2115 | 1 | 126193 | AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC |
| P2018-2330 | 1 | 126194 | AM 28 Blood Multi-Drug Quant Panel 2 by LC-QC |



AM# 28: Multi-Drug Quantitation in Blood by LC-MS/MS

TS
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Extraction Date: 09/05/18

Analyst: Sarah Pickle

Plate lot#: 0530563

Plate Expiration: 05/21/19

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water

Blank Blood Lot: 361331-1

Column: Agilent 120 EC-C18 (2.1x 100-4um)

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: _____

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: #3** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 00.5M ammonium hydroxide** in wells of analytical 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. 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 **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900uL ethyl acetate**.
- 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 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data. *Worklist Path: 090518 MDQ P1 P2 SP*
Worklist path: _ Batch Name: Click here to enter text. *Batch Name: MDQ P2a compounds removed*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: Only pseudoephedrine, zopiclone, amitriptyline, nortriptyline, alpha-hydroxymidazolam, midazolam, and chlordiazepoxide were evaluated in this run.

Curve range limited for pseudoephedrine 5-500, amitriptyline 10-1000, and nortriptyline 5-250.

Case sample P2018-2123-1 from worklist 2681 was ran with worklist 2674. Sarah Pickle acted as the primary analyst. I witnessed and approved of all actions and methods performed.

TS



Idaho State Police Forensic Services

TS/D

AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ

Analyst: Sarah Pickle
Extraction Date: 09/05/18
Worklist Number: 2674

| <i>Reagent</i> | <i>Lot Number</i> | <i>Expiration Date</i> | <i>Date in Service</i> | <i>Date Out of Service</i> | <i>Initials</i> |
|--|-------------------|------------------------|------------------------|----------------------------|-----------------|
| ToxBox Benzo/Opiate Quant Plate | 0530563 | 5/21/19 | | | |
| Negative Blood | 361331-1 | | 05/25/18 | | |
| Methanol External Control Solution | 022018 | 02/20/19 | 02/20/18 | | |
| Blood External Control Solution | 081518 | 02/20/19 | 08/15/18 | | |
| 0.5M Ammonium Hydroxide | 082818 | 02/29/19 | 08/28/18 | | |
| Formic Acid (LCMS Grade) | 095180B | | 11/15/17 | | |
| Water (LCMS Grade) | 181370 | | 06/21/18 | | |
| Methanol (LCMS Grade) | 177145 | | 04/11/18 | | |
| Ammonium Formate (LCMS Grade) | A0287238 | | 01/30/17 | | |
| Ammonium Hydroxide (ACS grade or better) | 053200 | | 08/03/07 | | |
| Ethyl Acetate (ACS grade or better) | 100362 | | 06/26/17 | | |
| 20% LCMS Methanol in LCMS Water | 082818 | | 08/28/18 | | |
| 5mM Ammonium Formate + 0.01% Formic Acid in Water (Mobile Phase A) | 090518 | | 09/05/18 | | |
| 0.01% Formic Acid in Methanol (Mobile Phase B) | 082818 | | 08/28/18 | | |
| Needle Rinse--75% LCMS MeOH in LCMS Water | 090418 | | 09/04/18 | | |

Methanol External Control Solution (Lot: 022018)
100 ul each 1 mg/mL stock solution in 9700 ul MeOH

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> | <i>Expiration Date</i> |
|------------------|----------------|--------------------------|------------------------|
| Methanol (LCMS) | Fisher | 172516 | |
| Zopiclone | Cerilliant | FE08291601 | 12/31/2021 |
| Chlordiazepoxide | Cerilliant | FE07241502 | 08/31/2020 |
| Flunitrazepam | Cerilliant | FE08051602 | 08/31/2021 |
| Prepared: | 02/20/18 | | |
| Prepared By: | Tamara Salazar | | |
| Expires: | 02/20/19 | | |

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D**Blood External Control Solution (Lot: WS081518)**

50 ul of methanol external control solution was added to 9950 ul of blood.

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|------------------------------------|---------------|--------------------------|
| Negative Blood | Hemostat | 361331-1 |
| Methanol External Control Solution | | 022018 |
| Prepared: | 08/15/18 | |
| Prepared by: | Sarah Pickle | |
| Expires: | 02/20/19 | |

0.5M Ammonium Hydroxide (Lot: 082818)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|--|----------------|--------------------------|
| Ammonium Hydroxide (ACS grade or better) | Fisher | 053200 |
| DI Water | - | - |
| Prepared: | 08/28/18 | |
| Prepared By: | Tamara Salazar | |
| Expires: | 02/29/19 | |

20% LCMS Methanol in LCMS Water (Lot: 082818)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|--------------------|----------------|--------------------------|
| MeOH (LCMS Grade) | Fisher | 177145 |
| Water (LCMS Grade) | Fisher | 181370 |
| Prepared: | 08/28/18 | |
| Prepared By: | Tamara Salazar | |

5mM Ammonium Formate + 0.01% Formic Acid in Water (Lot: 090518)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|------------------|----------------|--------------------------|
| Ammonium Formate | Arcos Organics | A0287238 |
| LCMS Water | Fisher | 181370 |
| Formic Acid | Fisher | 095180B |
| Prepared: | 09/05/18 | |
| Prepared By: | Sarah Pickle | |

0.01% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 082818)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|-------------------|----------------|--------------------------|
| Formic Acid | Fisher | 095180B |
| MeOH (LCMS Grade) | Fisher | 172517 |
| Prepared: | 08/28/18 | |
| Prepared By: | Tamara Salazar | |

Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 090418)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|--------------------|---------------|--------------------------|
| MeOH (LCMS Grade) | Fisher | 177145 |
| Water (LCMS Grade) | Fisher | 177528 |
| Prepared: | 09/04/18 | |
| Prepared By: | Sarah Pickle | |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

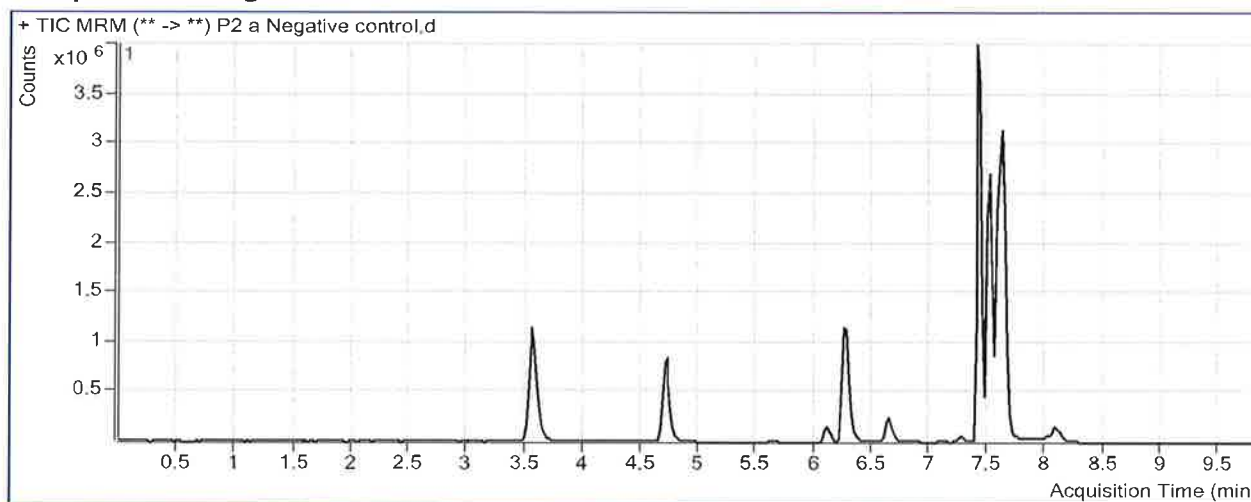
TS P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds I
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:14 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 12:30 **Data File** P2 a Negative control.d
Sample Type Sample **Sample Name** P2 a Negative control.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-E6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



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ISP FORENSICS - Pocatello Instrument # 59740

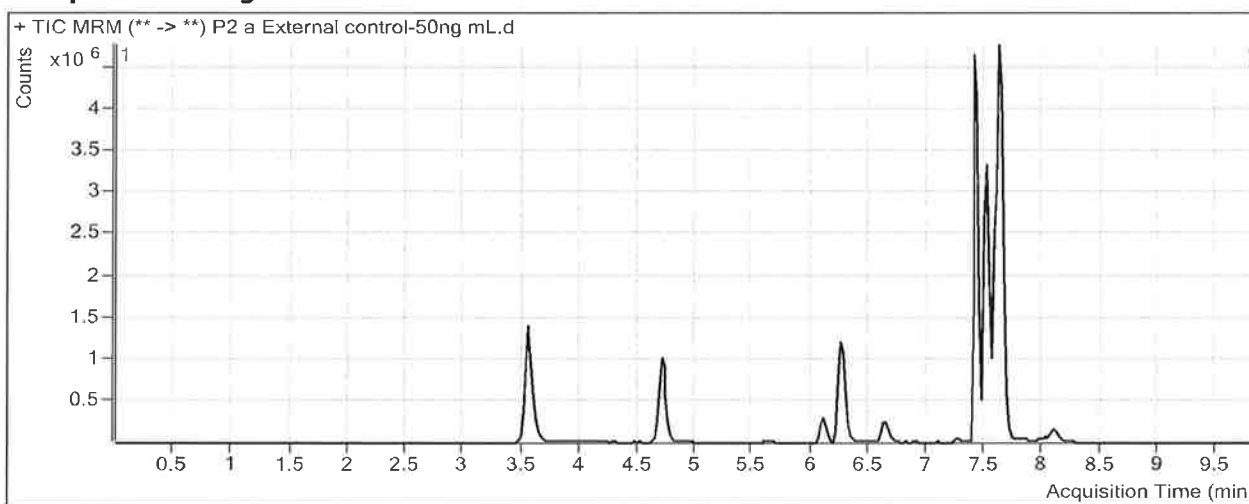
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:14 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 12:55 **Data File** P2 a External control-50ng mL.d
Sample Type Sample **Sample Name** P2 a External control-50ng mL.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-F6 **Sample Info**
Inj Vol -1 **Comment** AM 28; 361331-1 + WS022018 50 ng flunitrazepam, zopiclone, chlordia:

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------|---------------------|-------|----------|-----------|------------|------------|
| Zopiclone | Zopiclone-D4 | 6.091 | 451196 | 480368 | 0.9393 | 30.7866 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 1659949 | 7439295 | 0.2231 | 47.0669 |

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ISP FORENSICS - Pocatello Instrument # 59740

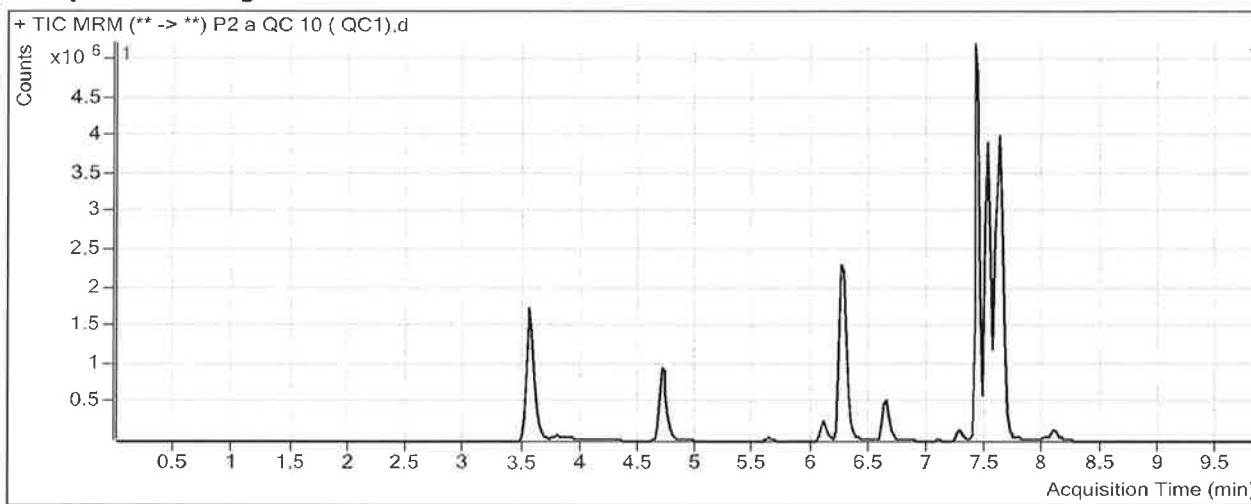
Multi-Drug Confirmatory Analysis Report

| | | | |
|--------------------------|---|----------------------|-----------|
| Batch Data Path | C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat | | |
| Analysis Time | 9/7/2018 2:12 PM | Analyst Name | ISPUser |
| Report Time | 9/7/2018 2:14 PM | Reporter Name | ISPUser |
| Last Calib Update | 9/7/2018 2:12 PM | Batch State | Processed |

Analysis Info

| | | | |
|--------------------|------------------|--------------------|-------------------------|
| Acq Time | 2018-09-06 13:46 | Data File | P2 a QC 10 (QC1).d |
| Sample Type | QC | Sample Name | P2 a QC 10 (QC1).d |
| Dilution | 1 | Acq Method | MDQ Panel 2a 06-22-18.m |
| Position | P1-A6 | Sample Info | |
| Inj Vol | -1 | Comment | AM 28-Panel 2 |

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.576 | 1588185 | 7526680 | 0.2110 | 10.2259 |
| Zopiclone | Zopiclone-D4 | 6.091 | 189034 | 741656 | 0.2549 | 10.3996 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 148175 | 320362 | 0.4625 | 13.5024 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 48267 | 168023 | 0.2873 | 8.6980 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 455491 | 4671416 | 0.0975 | 11.2400 |
| Midazolam | Midazolam-D4 | 7.585 | 193095 | 3815606 | 0.0506 | 9.5014 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 267340 | 6443034 | 0.0415 | 10.8491 |

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

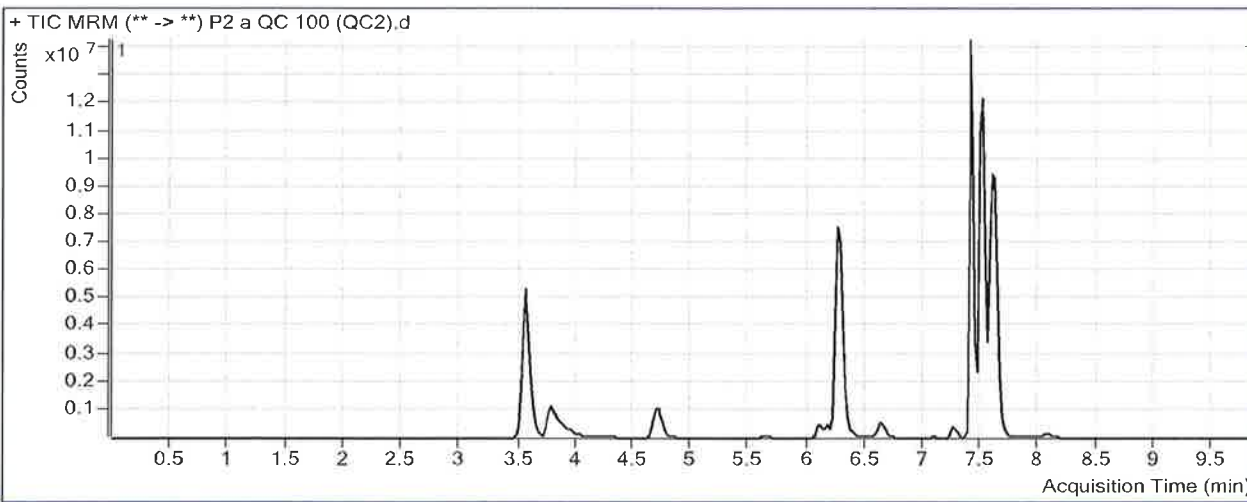
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Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:14 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-07 09:16 **Data File** P2 a QC 100 (QC2).d
Sample Type QC **Sample Name** P2 a QC 100 (QC2).d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-B6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.576 | 18154920 | 7624146 | 2.3812 | 105.6521 |
| Zopiclone | Zopiclone-D4 | 6.091 | 1130660 | 342429 | 3.3019 | 101.1656 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 1219235 | 251152 | 4.8546 | 94.2070 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 435957 | 116601 | 3.7389 | 100.4283 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 4511803 | 4169463 | 1.0821 | 110.0076 |
| Midazolam | Midazolam-D4 | 7.565 | 2436667 | 3698961 | 0.6587 | 100.5751 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 2764821 | 5866489 | 0.4713 | 96.5479 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

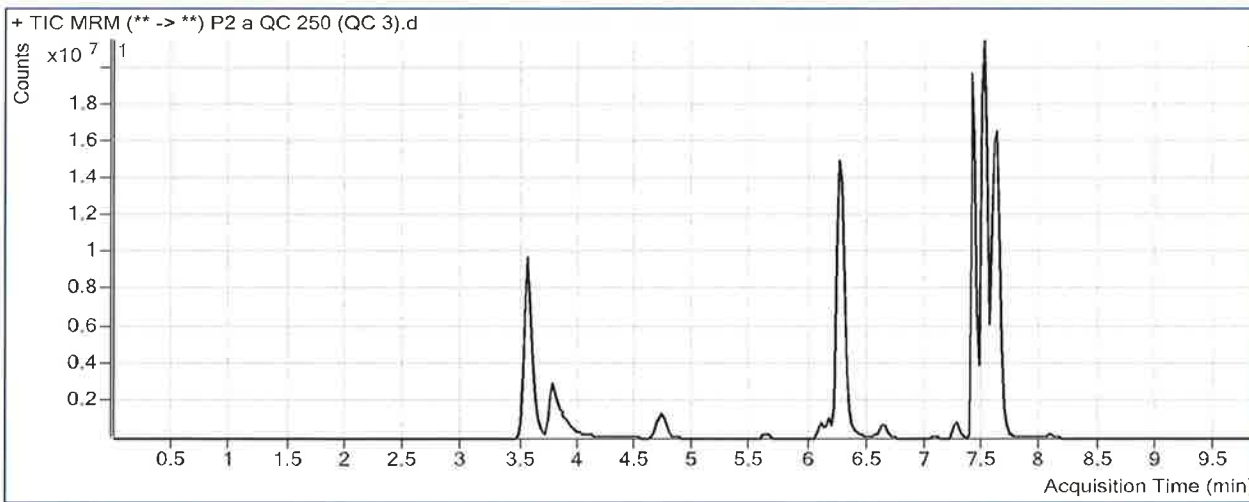
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| | | | |
|--------------------------|---|----------------------|-----------|
| Batch Data Path | C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat | | |
| Analysis Time | 9/7/2018 2:12 PM | Analyst Name | ISPUser |
| Report Time | 9/7/2018 2:14 PM | Reporter Name | ISPUser |
| Last Calib Update | 9/7/2018 2:12 PM | Batch State | Processed |

Analysis Info

| | | | |
|--------------------|------------------|--------------------|-------------------------|
| Acq Time | 2018-09-07 10:32 | Data File | P2 a QC 250 (QC 3).d |
| Sample Type | QC | Sample Name | P2 a QC 250 (QC 3).d |
| Dilution | 1 | Acq Method | MDQ Panel 2a 06-22-18.m |
| Position | P1-C6 | Sample Info | |
| Inj Vol | -1 | Comment | AM 28-Panel 2 |

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.556 | 41390323 | 7049300 | 5.8716 | 259.1230 |
| Zopiclone | Zopiclone-D4 | 6.091 | 2053744 | 253876 | 8.0896 | 243.7839 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 2998380 | 241548 | 12.4132 | 233.0978 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 1055846 | 112905 | 9.3516 | 249.5916 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 9596377 | 3576131 | 2.6835 | 270.6424 |
| Midazolam | Midazolam-D4 | 7.565 | 5908468 | 3622408 | 1.6311 | 246.1921 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 5677848 | 4552162 | 1.2473 | 251.2763 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

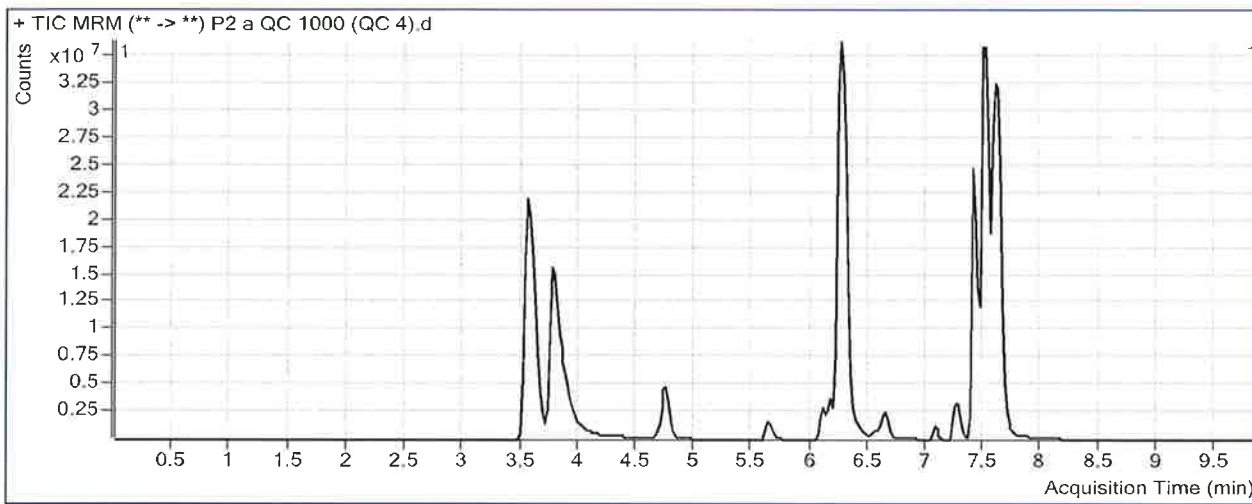
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Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:15 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-07 11:23 **Data File** P2 a QC 1000 (QC 4).d
Sample Type QC **Sample Name** P2 a QC 1000 (QC 4).d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-D6 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------------|-------------------------------|------------------|----------------------|--------------------|--------------------|------------------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.576 | 123961321 | 7048060 | 17.5880 | 774.3017 * |
| Zopiclone | Zopiclone-D4 | 6.091 | 7810406 | 219430 | 35.5941 | 1063.1069 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 7992824 | 158241 | 50.5106 | 933.1458 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 2245738 | 55153 | 40.7180 | 1083.1849 * |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.563 | 20241158 | 1821152 | 11.1145 | 1116.3789 |
| Midazolam | Midazolam-D4 | 7.565 | 18529149 | 2982233 | 6.2132 | 932.3993 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 13530379 | 2617216 | 5.1698 | 1033.3916 |

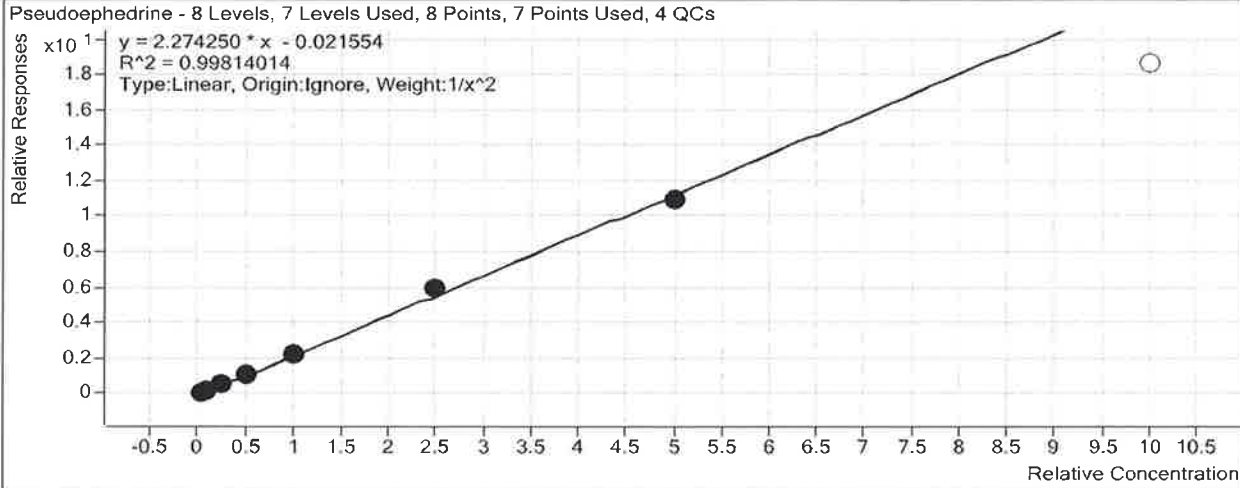
* outside curve range TS

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.batch.bin
Last Calib Update 9/7/2018 2:12 PM **Analyst Name** ISP TOX

Target Compound *Pseudoephedrine*
Internal Standard *Pseudoephedrine-D3*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-----------------------|-------|-------------------------------------|----------|------------|----------|
| P2 a cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.1 | 102.8 |
| P2 a cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.4 | 94.2 |
| P2 a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.2 | 102.3 |
| P2 a cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 25.0 | 100.2 |
| P2 a cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 49.5 | 99.1 |
| P2 a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 101.4 | 101.4 |
| P2 a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 105.7 | 105.7 |
| P2 a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 263.1 | 105.2 |
| P2 a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 259.1 | 103.6 |
| P2 a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 485.3 | 97.1 |
| P2 a cal 8-1000ng.d | 8 | <input type="checkbox"/> | 1000 | 819.3 | 81.9 |
| P2 a QC 1000 (QC 4).d | 8 | <input type="checkbox"/> | 1000 | 774.3 | 77.4 |

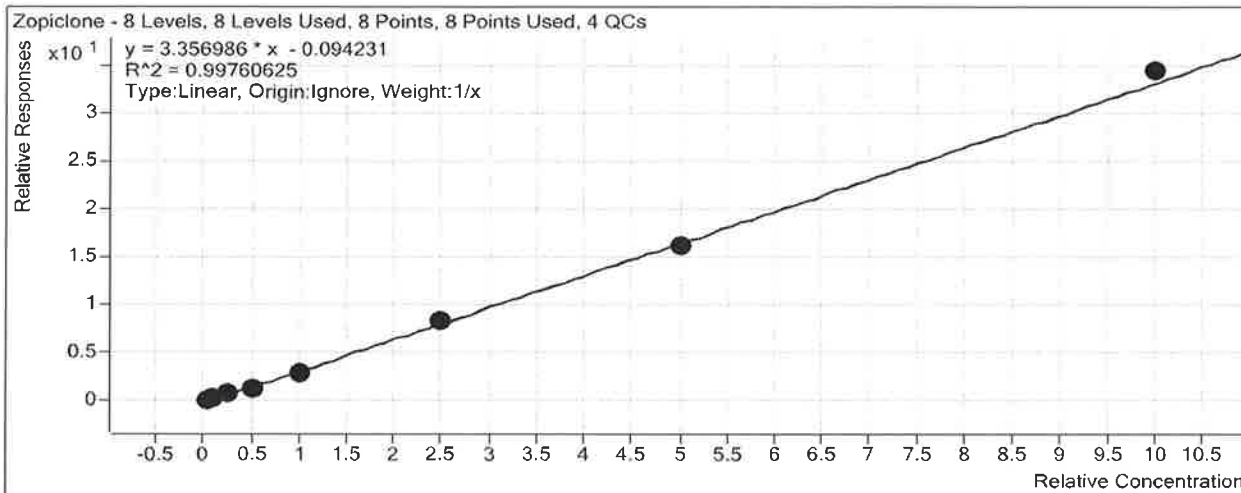
ISP Forensics Calibration Curve Report

TS P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a
compounds removed.batch.bin

Last Calib Update 9/7/2018 2:12 PM **Analyst Name** ISP TOX

Target Compound Zopiclone
Internal Standard Zopiclone-D4



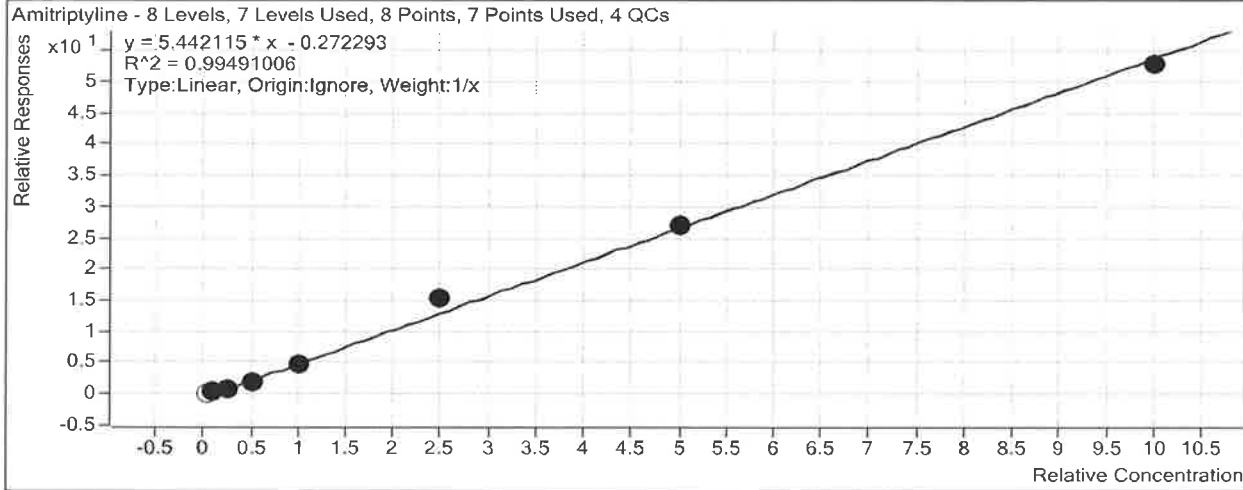
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-----------------------|-------|-------------------------------------|----------|------------|----------|
| P2 a cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.4 | 128.4 |
| P2 a cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.4 | 103.5 |
| P2 a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.4 | 104.0 |
| P2 a cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.3 | 93.2 |
| P2 a cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 41.9 | 83.8 |
| P2 a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 90.1 | 90.1 |
| P2 a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 101.2 | 101.2 |
| P2 a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 252.4 | 101.0 |
| P2 a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 243.8 | 97.5 |
| P2 a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 484.8 | 97.0 |
| P2 a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1030.7 | 103.1 |
| P2 a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1063.1 | 106.3 |

ISP Forensics Calibration Curve Report

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Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.batch.bin
Last Calib Update 9/7/2018 2:12 PM **Analyst Name** ISP TOX

Target Compound Amitriptyline
Internal Standard Amitriptyline-D3



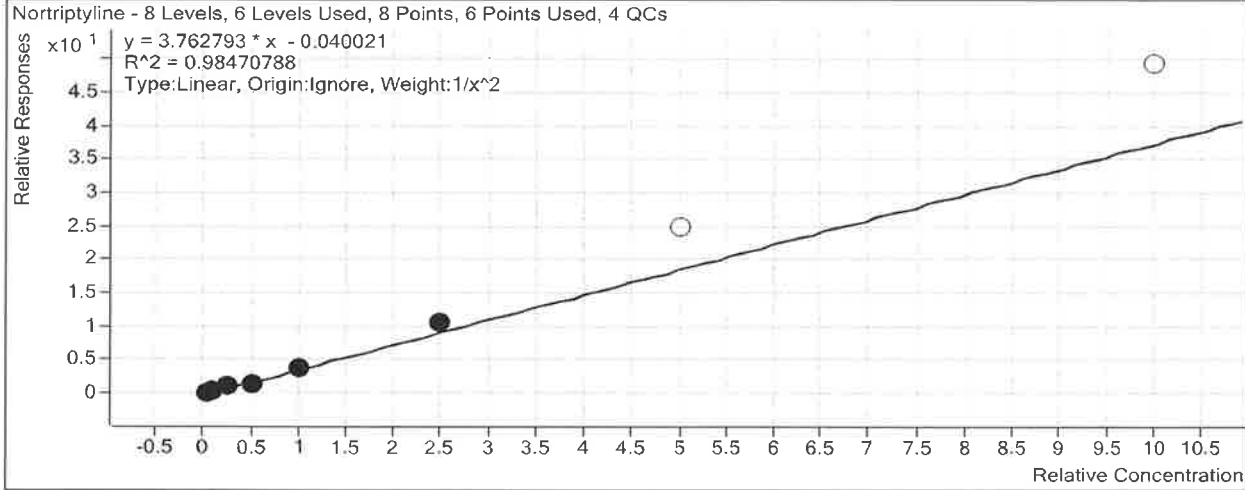
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-----------------------|-------|-------------------------------------|----------|------------|----------|
| P2 a cal 1-5ng.d | 1 | <input type="checkbox"/> | 5 | 9.0 | 180.5 |
| P2 a cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 11.8 | 117.5 |
| P2 a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 13.5 | 135.0 |
| P2 a cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.5 | 89.8 |
| P2 a cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 42.7 | 85.5 |
| P2 a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 94.2 | 94.2 |
| P2 a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 94.2 | 94.2 |
| P2 a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 288.4 | 115.3 |
| P2 a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 233.1 | 93.2 |
| P2 a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 500.8 | 100.2 |
| P2 a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 974.7 | 97.5 |
| P2 a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 933.1 | 93.3 |

ISP Forensics Calibration Curve Report

TS P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.batch.bin
Last Calib Update 9/7/2018 2:12 PM **Analyst Name** ISP TOX

Target Compound Nortriptyline
Internal Standard Nortriptyline-D3



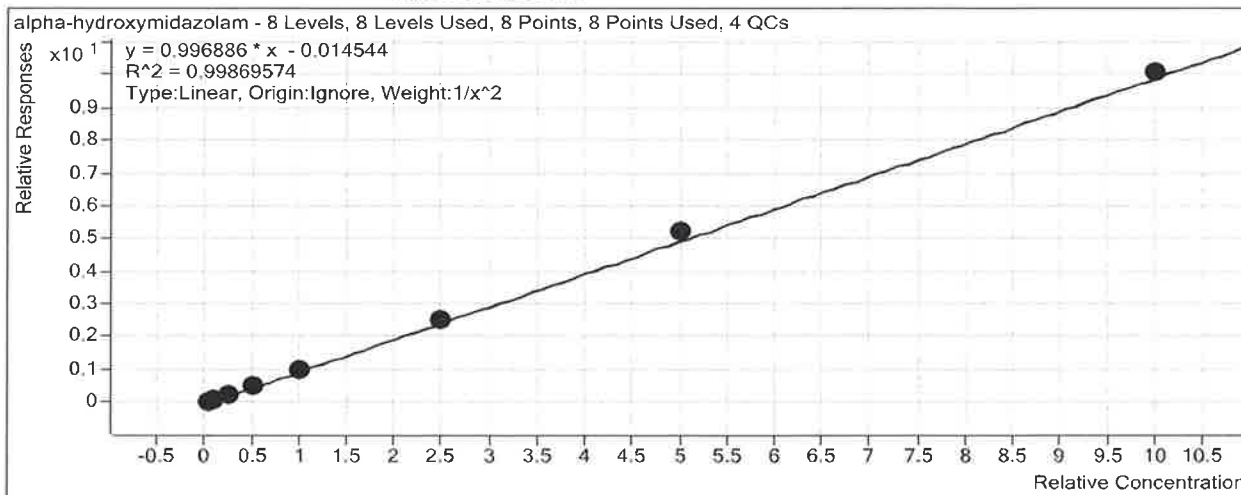
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-----------------------|-------|-------------------------------------|----------|------------|----------|
| P2 a cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 4.9 | 98.1 |
| P2 a cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.6 | 106.5 |
| P2 a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 8.7 | 87.0 |
| P2 a cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 25.2 | 100.9 |
| P2 a cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 40.8 | 81.6 |
| P2 a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 101.8 | 101.8 |
| P2 a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 100.4 | 100.4 |
| P2 a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 278.0 | 111.2 |
| P2 a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 249.6 | 99.8 |
| P2 a cal 7-500ng.d | 7 | <input type="checkbox"/> | 500 | 659.9 | 132.0 |
| P2 a cal 8-1000ng.d | 8 | <input type="checkbox"/> | 1000 | 1310.1 | 131.0 |
| P2 a QC 1000 (QC 4).d | 8 | <input type="checkbox"/> | 1000 | 1083.2 | 108.3 |

ISP Forensics Calibration Curve Report

TS P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.batch.bin
Last Calib Update 9/7/2018 2:12 PM **Analyst Name** ISP TOX

Target Compound *alpha-hydroxymidazolam*
Internal Standard *alpha-hydroxymidazolam-D4*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-----------------------|-------|-------------------------------------|----------|------------|----------|
| P2 a cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.1 | 102.5 |
| P2 a cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.8 |
| P2 a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 11.2 | 112.4 |
| P2 a cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.2 | 96.9 |
| P2 a cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.5 | 97.1 |
| P2 a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 98.2 | 98.2 |
| P2 a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 110.0 | 110.0 |
| P2 a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 255.9 | 102.4 |
| P2 a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 270.6 | 108.3 |
| P2 a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 524.6 | 104.9 |
| P2 a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1011.8 | 101.2 |
| P2 a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1116.4 | 111.6 |

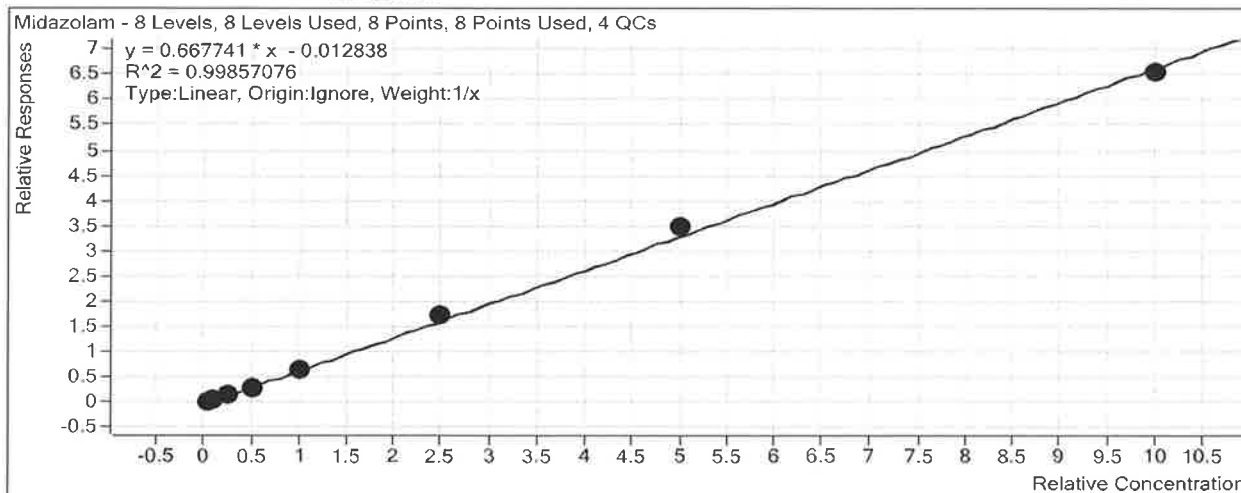
ISP Forensics Calibration Curve Report

TS
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.batch.bin

Last Calib Update 9/7/2018 2:12 PM **Analyst Name** ISP TOX

Target Compound Midazolam
Internal Standard Midazolam-D4



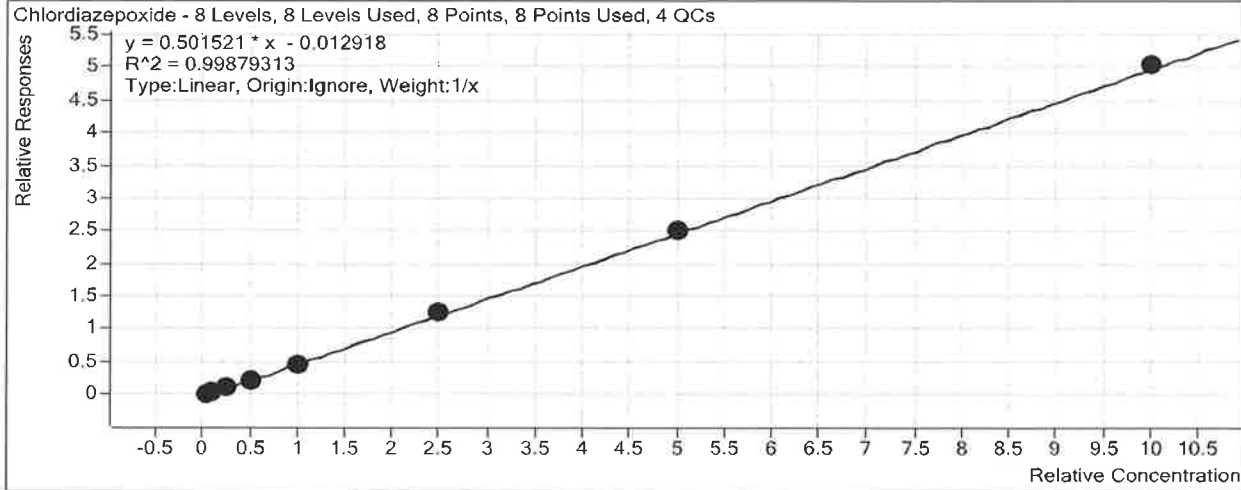
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-----------------------|-------|-------------------------------------|----------|------------|----------|
| P2 a cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.2 | 123.0 |
| P2 a cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.0 | 90.5 |
| P2 a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.5 | 95.0 |
| P2 a cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.6 | 94.3 |
| P2 a cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 45.9 | 91.9 |
| P2 a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 94.8 | 94.8 |
| P2 a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 100.6 | 100.6 |
| P2 a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 258.1 | 103.3 |
| P2 a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 246.2 | 98.5 |
| P2 a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 521.0 | 104.2 |
| P2 a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 981.4 | 98.1 |
| P2 a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 932.4 | 93.2 |

ISP Forensics Calibration Curve Report

TS
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.batch.bin
Last Calib Update 9/7/2018 2:12 PM **Analyst Name** ISP TOX

Target Compound *Chlordiazepoxide*
Internal Standard *Chlordiazepoxide-D5*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-----------------------|-------|-------------------------------------|----------|------------|----------|
| P2 a cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.2 | 124.0 |
| P2 a cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.9 | 99.4 |
| P2 a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.8 | 108.5 |
| P2 a cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.1 | 96.2 |
| P2 a cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 42.4 | 84.8 |
| P2 a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 92.7 | 92.7 |
| P2 a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 96.5 | 96.5 |
| P2 a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 252.7 | 101.1 |
| P2 a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 251.3 | 100.5 |
| P2 a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 505.1 | 101.0 |
| P2 a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1006.9 | 100.7 |
| P2 a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1033.4 | 103.3 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

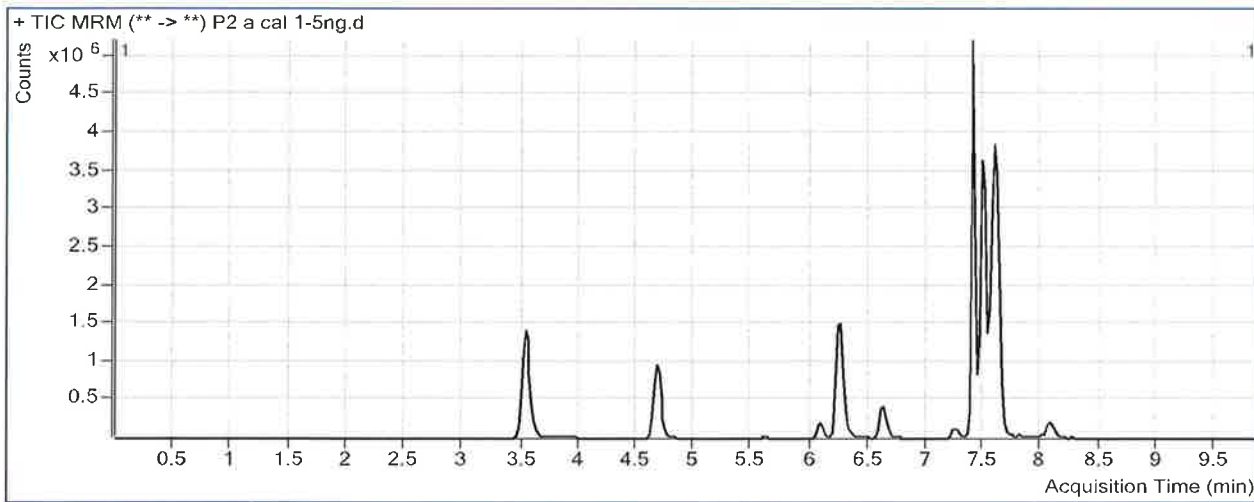
TS P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:13 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 08:40 **Data File** P2 a cal 1-5ng.d
Sample Type Calibration **Sample Name** P2 a cal 1-5ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-A5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.556 | 655188 | 6872894 | 0.0953 | 5.1394 |
| Zopiclone | Zopiclone-D4 | 6.071 | 79667 | 657058 | 0.1212 | 6.4188 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 103098 | 470976 | 0.2189 | 9.0258 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 38478 | 266126 | 0.1446 | 4.9062 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 185198 | 5067940 | 0.0365 | 5.1246 |
| Midazolam | Midazolam-D4 | 7.565 | 112830 | 3996032 | 0.0282 | 6.1511 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 133271 | 7327941 | 0.0182 | 6.2020 |

TS
P

ISP FORENSICS - Pocatello Instrument # 59740

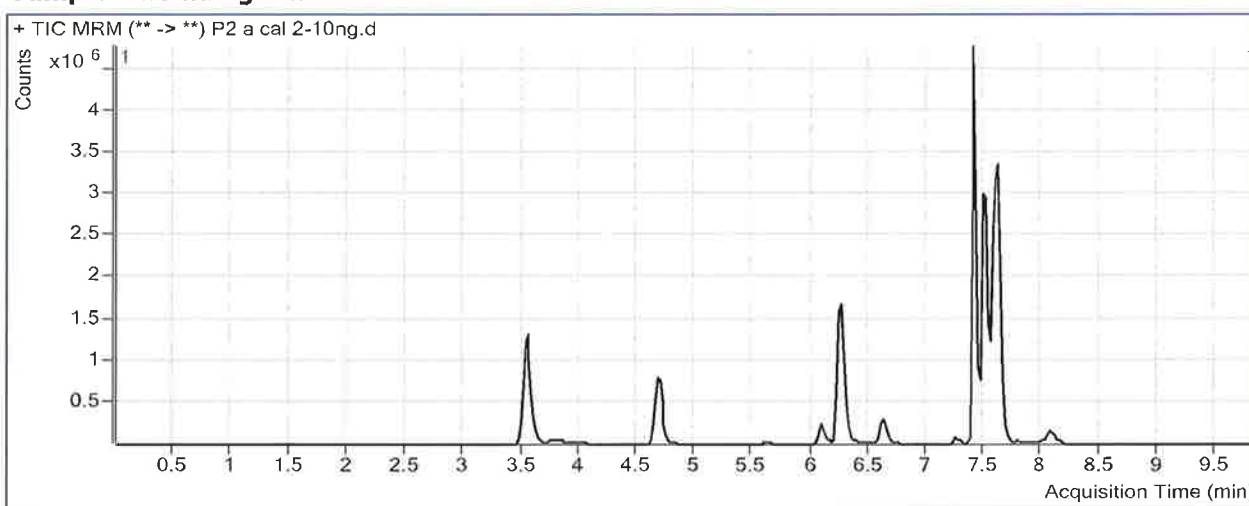
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.batr
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISUser
Report Time 9/7/2018 2:13 PM **Reporter Name** ISUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 09:05 **Data File** P2 a cal 2-10ng.d
Sample Type Calibration **Sample Name** P2 a cal 2-10ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-B5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.556 | 1122101 | 5820573 | 0.1928 | 9.4245 |
| Zopiclone | Zopiclone-D4 | 6.071 | 156785 | 619076 | 0.2533 | 10.3512 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 49664 | 135184 | 0.3674 | 11.7542 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 20691 | 57382 | 0.3606 | 10.6466 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 334066 | 4075759 | 0.0820 | 9.6809 |
| Midazolam | Midazolam-D4 | 7.565 | 159212 | 3347220 | 0.0476 | 9.0459 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.607 | 223437 | 6045962 | 0.0370 | 9.9446 |

TS 

ISP FORENSICS - Pocatello Instrument # 59740

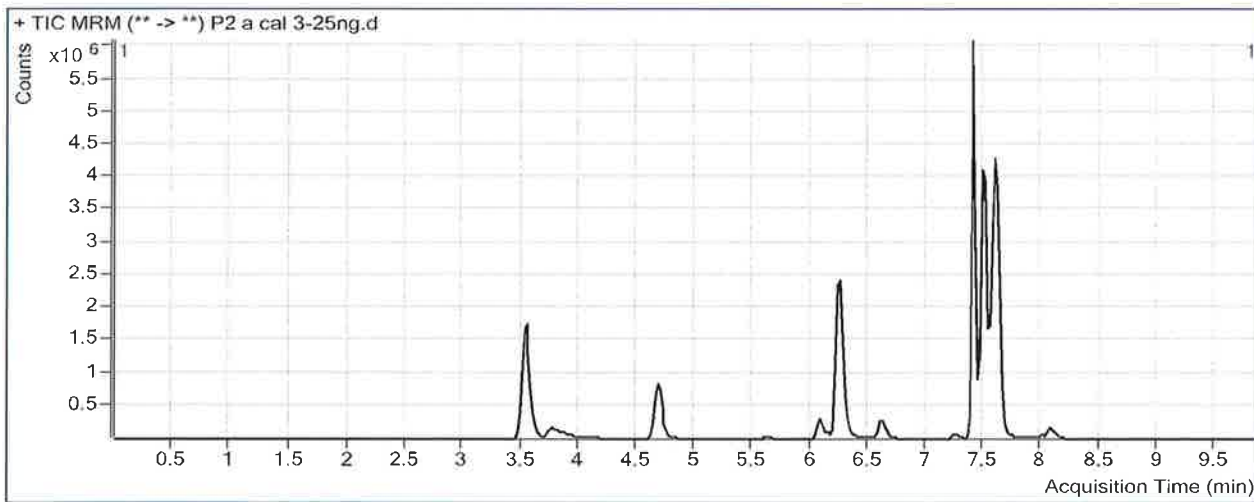
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:13 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 09:31 **Data File** P2 a cal 3-25ng.d
Sample Type Calibration **Sample Name** P2 a cal 3-25ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-C5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.556 | 3245263 | 5922105 | 0.5480 | 25.0432 |
| Zopiclone | Zopiclone-D4 | 6.071 | 420633 | 611454 | 0.6879 | 23.2993 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 98009 | 103153 | 0.9501 | 22.4624 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 34041 | 37451 | 0.9089 | 25.2197 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 903846 | 3982291 | 0.2270 | 24.2264 |
| Midazolam | Midazolam-D4 | 7.565 | 447310 | 3094873 | 0.1445 | 23.5676 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.607 | 633129 | 5877438 | 0.1077 | 24.0547 |

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

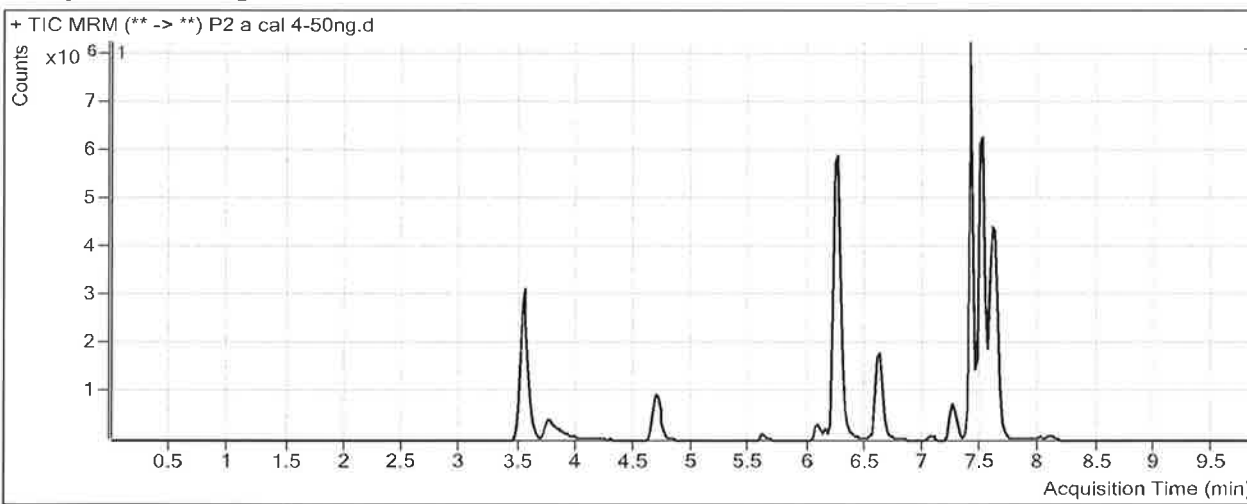
TS
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:13 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 09:56 **Data File** P2 a cal 4-50ng.d
Sample Type Calibration **Sample Name** P2 a cal 4-50ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-D5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.556 | 7989344 | 7229276 | 1.1051 | 49.5412 |
| Zopiclone | Zopiclone-D4 | 6.071 | 620159 | 472524 | 1.3124 | 41.9028 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 1183897 | 576646 | 2.0531 | 42.7291 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 222971 | 149206 | 1.4944 | 40.7784 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.563 | 1366463 | 2911778 | 0.4693 | 48.5343 |
| Midazolam | Midazolam-D4 | 7.565 | 862828 | 2935024 | 0.2940 | 45.9481 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.607 | 981269 | 4912282 | 0.1998 | 42.4062 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

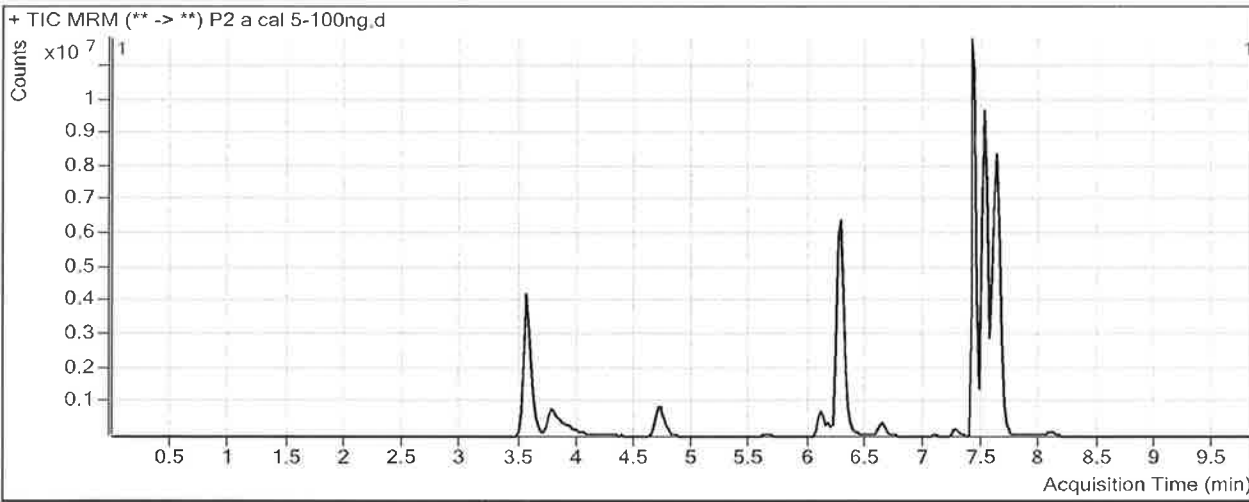
TS P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:13 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 10:22 **Data File** P2 a cal 5-100ng.d
Sample Type Calibration **Sample Name** P2 a cal 5-100ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-E5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.576 | 13996227 | 6125040 | 2.2851 | 101.4241 |
| Zopiclone | Zopiclone-D4 | 6.091 | 1604636 | 547452 | 2.9311 | 90.1205 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 568269 | 117093 | 4.8531 | 94.1807 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 162952 | 43003 | 3.7893 | 101.7687 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 3672344 | 3806074 | 0.9649 | 98.2467 |
| Midazolam | Midazolam-D4 | 7.585 | 2010405 | 3243216 | 0.6199 | 94.7550 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 2348840 | 5196374 | 0.4520 | 92.7045 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

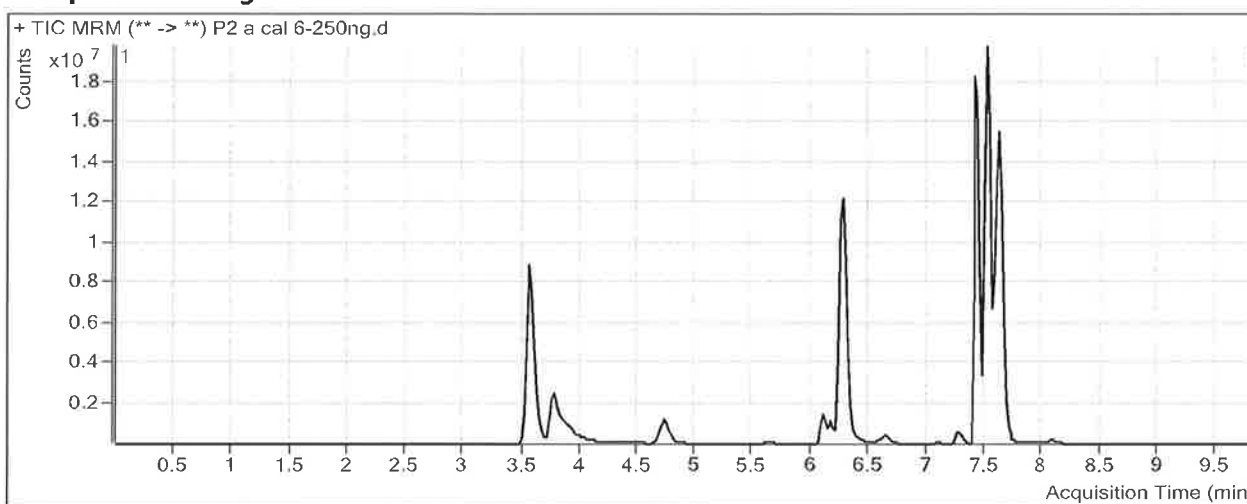
TSB

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:13 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 10:47 **Data File** P2 a cal 6-250ng.d
Sample Type Calibration **Sample Name** P2 a cal 6-250ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-F5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.576 | 36241238 | 6079003 | 5.9617 | 263.0872 |
| Zopiclone | Zopiclone-D4 | 6.091 | 3592469 | 428763 | 8.3787 | 252.3963 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 2378600 | 154254 | 15.4201 | 288.3503 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 803539 | 77106 | 10.4212 | 278.0170 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 8214003 | 3237822 | 2.5369 | 255.9406 |
| Midazolam | Midazolam-D4 | 7.585 | 5201733 | 3040303 | 1.7109 | 258.1484 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 5578043 | 4447429 | 1.2542 | 252.6584 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

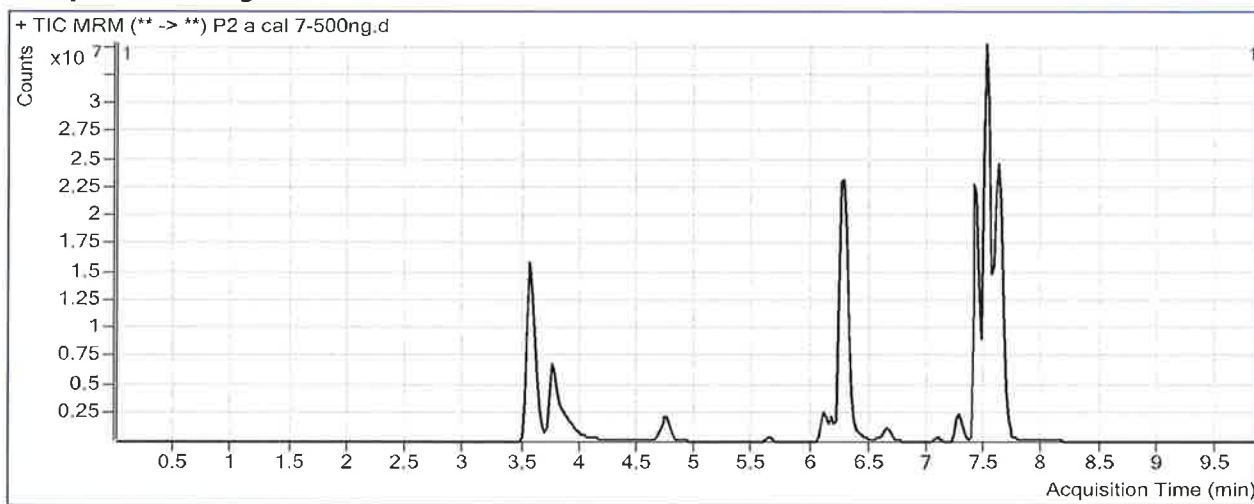
TS
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISPUser
Report Time 9/7/2018 2:14 PM **Reporter Name** ISPUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 11:13 **Data File** P2 a cal 7-500ng.d
Sample Type Calibration **Sample Name** P2 a cal 7-500ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-G5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.576 | 75935286 | 6894095 | 11.0145 | 485.2630 |
| Zopiclone | Zopiclone-D4 | 6.091 | 6747750 | 417042 | 16.1800 | 484.7881 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 11679084 | 432871 | 26.9805 | 500.7763 |
| Nortriptyline | Nortriptyline-D3 | 7.534 | 4113709 | 165929 | 24.7920 | 659.9362 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 14011196 | 2686710 | 5.2150 | 524.5883 |
| Midazolam | Midazolam-D4 | 7.565 | 11327383 | 3268157 | 3.4660 | 520.9835 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 9708138 | 3851842 | 2.5204 | 505.1245 |

TS
P

ISP FORENSICS - Pocatello Instrument # 59740

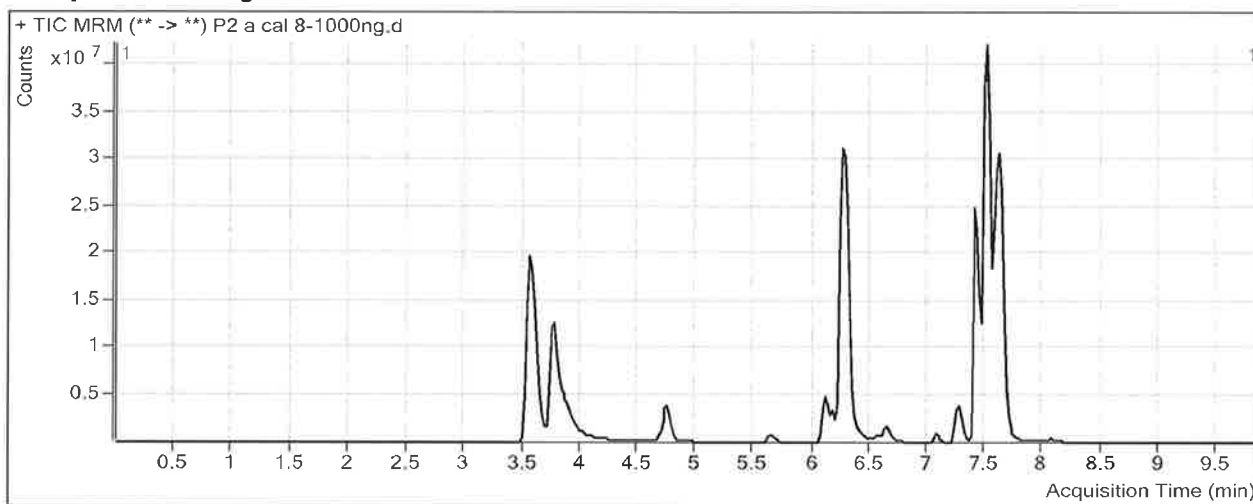
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\090518 MDQ P1 P2 SP\QuantResults\MDQ P2a compounds removed.bat
Analysis Time 9/7/2018 2:12 PM **Analyst Name** ISUser
Report Time 9/7/2018 2:14 PM **Reporter Name** ISUser
Last Calib Update 9/7/2018 2:12 PM **Batch State** Processed

Analysis Info

Acq Time 2018-09-06 11:39 **Data File** P2 a cal 8-1000ng.d
Sample Type Calibration **Sample Name** P2 a cal 8-1000ng.d
Dilution 1 **Acq Method** MDQ Panel 2a 06-22-18.m
Position P1-H5 **Sample Info**
Inj Vol -1 **Comment** AM 28-Panel 2

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|-------|-----------|-----------|------------|------------|
| Pseudoephedrine | Pseudoephedrine-D3 | 3.576 | 103996677 | 5588074 | 18.6105 | 819.2600 |
| Zopiclone | Zopiclone-D4 | 6.091 | 12945256 | 375149 | 34.5070 | 1030.7231 |
| Amitriptyline | Amitriptyline-D3 | 7.490 | 16328510 | 309401 | 52.7746 | 974.7471 |
| Nortriptyline | Nortriptyline-D3 | 7.514 | 5420316 | 110045 | 49.2554 | 1310.0762 |
| alpha-hydroxymidazolam | alpha-hydroxymidazolam-D4 | 7.583 | 18108198 | 1797825 | 10.0723 | 1011.8336 |
| Midazolam | Midazolam-D4 | 7.565 | 16006020 | 2447262 | 6.5404 | 981.4003 |
| Chlordiazepoxide | Chlordiazepoxide-D5 | 7.627 | 13378942 | 2656172 | 5.0369 | 1006.9052 |