

REVIEWED

By Sarah Pickle at 12:00 pm, Dec 20, 2018

12/12/2018

TS

Worklist: 2838

| <u>LAB CASE</u> | <u>ITEM</u> | <u>TASK ID</u> | <u>DESCRIPTION</u> | |
|-----------------|-------------|----------------|---|---|
| M2018-5372 | 1 | 134308 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2018-5498 | 2 | 134309 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2018-5592 | 2 | 134310 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2018-5594 | 1 | 134311 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2018-5624 | 1 | 134312 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2018-5751 | 1 | 134313 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2018-5767 | 3 | 134314 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2018-5793 | 1 | 134315 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3029 | 1 | 134316 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3175 | 3 | 134317 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3187 | 1 | 134318 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3260 | 1 | 134319 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3271 | 1 | 134320 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3274 | 1 | 134321 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3275 | 1 | 134322 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3337 | 1 | 134323 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3339 | 1 | 134324 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3340 | 1 | 134325 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3352 | 1 | 134326 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3369 | 1 | 134327 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2018-3392 | 2 | 134328 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |

TS

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

Extraction Date: 12/13/18
Plate lot#: 0530563

Analyst: Tamara Salazar
Plate Expiration: 05/21/2019

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: 445283-1

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: C:\MassHunter\Data\2018\MD Quant\ 121318 MDQ TS wklst 2838
Batch Name: ~~P1a MDQ 121318 TS~~ P1a MDQ 121318 ~~P1b MDQ 121318 TS~~ P1b MDQ 121318 TS
- 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.

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COMMENTS:

Curves limited: 6-MAM 2.5-100

Lorazepam 5-500

Norhydrocodone 25-1000

Venlafaxine 5-500

Benzoylcegonine 5-100

Methadone 5-500

Norbuprenorphine: 2.5-100

Norfentanyl: 2.5-100

Oxazepam: 10-1000

Quetiapine: 5-500

Not evaluated:

Due to possible interfering peaks in the internal standards, codeine and dihydrocodeine are not evaluated for this batch.



Idaho State Police Forensic Services

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

Analyst: Tamara Salazar
Extraction Date: 12/13/18
Worklist Number: 2838

| <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 | 05/21/19 | 06/05/18 | | |
| Negative Blood | 445283-1 | | 10/25/18 | | |
| Methanol External Control Solution | 121218 | 12/12/19 | 12/12/18 | | |
| Blood External Control Solution | WS121218 | 12/12/19 | 12/12/18 | | |
| 0.5M Ammonium Hydroxide | 082818 | 02/28/19 | 08/28/18 | | |
| Formic Acid (LCMS Grade) | 095180B | | 11/15/17 | | |
| Water (LCMS Grade) | 183905 | | 12/06/18 | | |
| 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) | 120618 | | 12/06/18 | | |
| 0.01% Formic Acid in Methanol (Mobile Phase B) | 100918 | | 10/09/18 | | |
| Needle Rinse--75% LCMS MeOH in LCMS Water | 110818 | | 11/08/18 | | |

Methanol External Control Solution (Lot: 121218)
 100 ul each 1 mg/mL stock solution in 9600 ul MeOH

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> | <i>Expiration Date</i> |
|----------------------|---------------|--------------------------|------------------------|
| Methanol (LCMS) | Fisher | 177145 | |
| Fluoxetine | Cerilliant | FN06281603 | 07/31/2021 |
| O-desmethyl Tramadol | Cerilliant | FN01241702 | 04/30/2022 |
| Amphetamine | Cerilliant | FE04061701 | 06/30/2022 |
| Alprazolam | Cerilliant | FE07061604 | 07/31/2021 |
| Prepared: | 12/12/18 | | |
| Prepared By: | Sarah Pickle | | |
| Expires: | 12/12/19 | | |

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Blood External Control Solution (Lot: WS121218)

50 ul of methanol external control solution was added to 9950 ul of blood. (Approximately 50ng/mL of each compound)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|------------------------------------|---------------|--------------------------|
| Negative Blood | Hemostat | 445283-1 |
| Methanol External Control Solution | | 121218 |
| Prepared: | 12/12/18 | |
| Prepared by: | Sarah Pickle | |
| Expires: | 12/12/19 | |

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: | 02/28/19 | |

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 | 182702 |
| Prepared: | 08/28/18 | |
| Prepared By: | Tamara Salazar | |

5mM Ammonium Formate + 0.01% Formic Acid in Water (Lot: 120618)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|------------------|----------------|--------------------------|
| Ammonium Formate | Arcos Organics | A0287238 |
| LCMS Water | Fisher | 183905 |
| Formic Acid | Fisher | 095180B |
| Prepared: | 12/06/18 | |
| Prepared By: | Sarah Pickle | |

0.01% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 100918)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|-------------------|----------------|--------------------------|
| Formic Acid | Fisher | 095180B |
| MeOH (LCMS Grade) | Fisher | 177145 |
| Prepared: | 10/09/18 | |
| Prepared By: | Tamara Salazar | |

Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 110818)

| <i>Component</i> | <i>Source</i> | <i>Source Lot Number</i> |
|--------------------|---------------|--------------------------|
| MeOH (LCMS Grade) | Fisher | 177145 |
| Water (LCMS Grade) | Fisher | 182702 |
| Prepared: | 11/08/18 | |
| Prepared By: | Sarah Pickle | |

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ISP FORENSICS - Pocatello Instrument # 59740

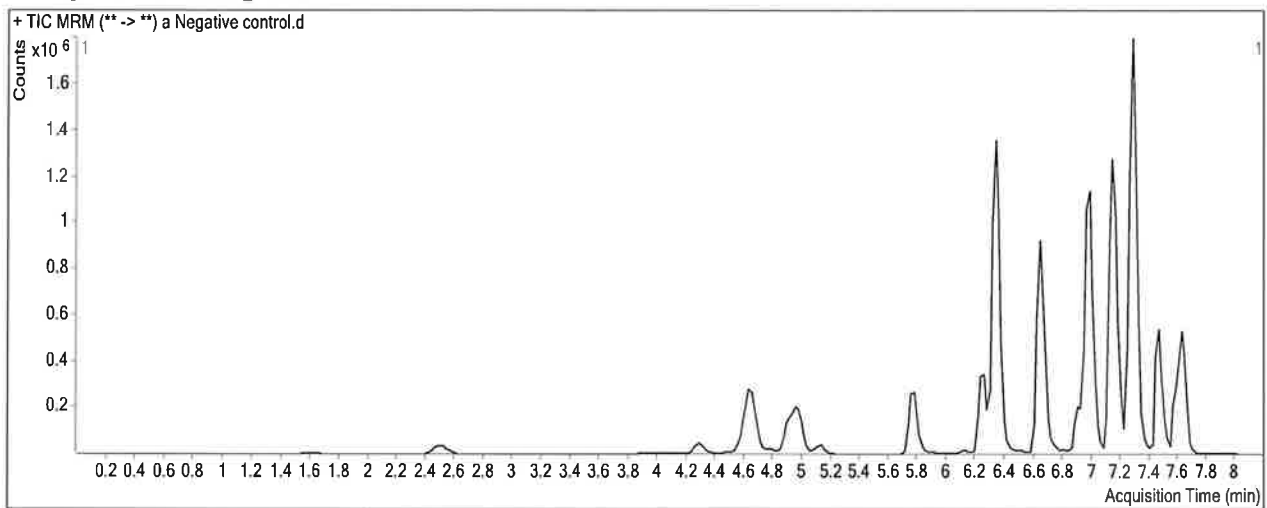
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklt 2838\QuantResults\P1a MDQ 121318
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 18:07 **Data File** a Negative control.d
Sample Type Sample **Sample Name** a Negative control.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-D11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



TS

ISP FORENSICS - Pocatello Instrument # 59740

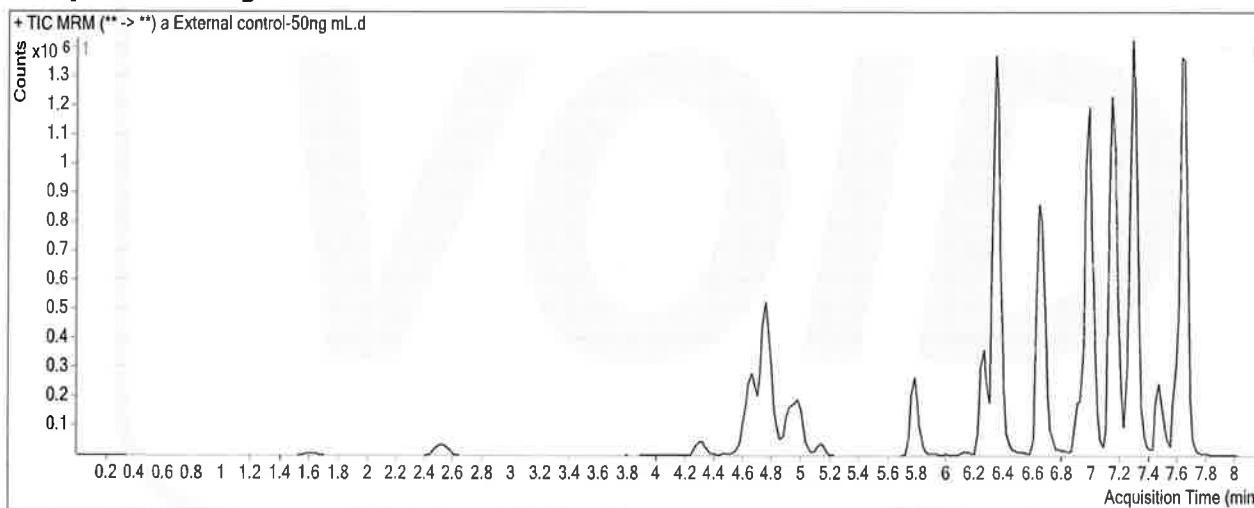
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 18:38 **Data File** a External control-50ng mL.d
Sample Type Sample **Sample Name** a External control-50ng mL.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-C11 **Sample Info**
Inj Vol -1 **Comment** AM 28; WS121218 50ng Fluoxetine, Amphetamine, Alprazolam, O-desme

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------|-----------------|-------|----------|-----------|------------|------------|
| Amphetamine | Amphetamine-D11 | 4.764 | 1756957 | 608328 | 2.8882 | 48.2149 |
| Citalopram | Citalopram-D6 | 7.260 | 37084 | 1608487 | 0.0231 | 1.9781 |
| Alprazolam | Alprazolam-D5 | 7.648 | 1971578 | 1515504 | 1.3009 | 41.7345 |

*External control was re-injected due to carryover from the 1000ng calibrator. - TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

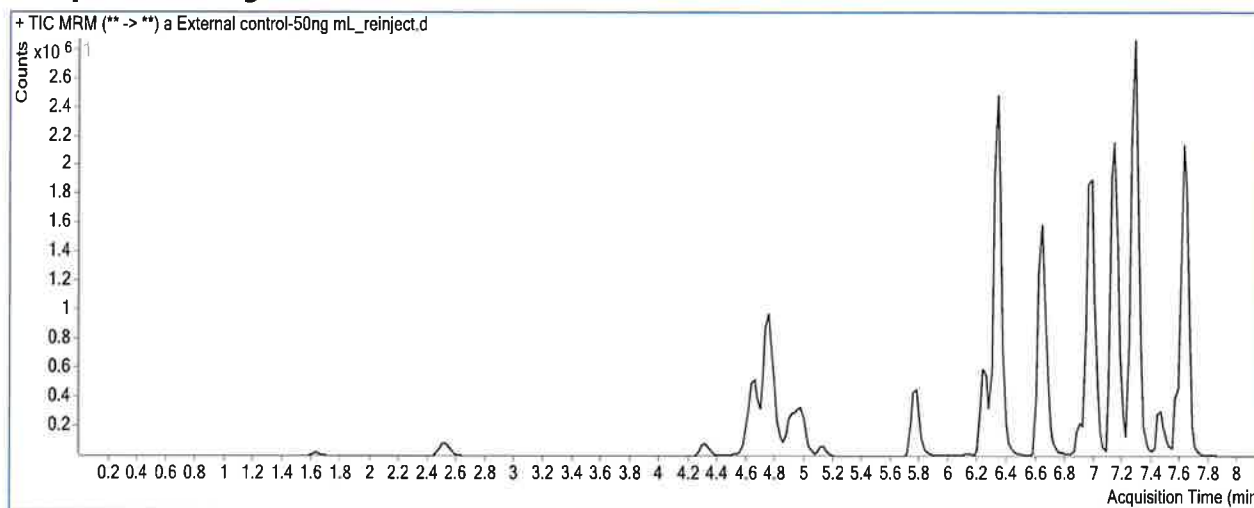
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:47 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-14 11:40 **Data File** a External control-50ng mL_reinject.d
Sample Type Sample **Sample Name** a External control-50ng mL_reinject.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-C11 **Sample Info**
Inj Vol -1 **Comment** AM 28; WS121218 50ng Fluoxetine, Amphetamine, Alprazolam, O-desme

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|--------------------|-----------------|-------|----------|-----------|------------|----------------|
| <u>Amphetamine</u> | Amphetamine-D11 | 4.764 | 3178195 | 1117292 | 2.8446 | <u>47.4728</u> |
| <u>Alprazolam</u> | Alprazolam-D5 | 7.628 | 2998954 | 2373416 | 1.2636 | <u>40.5642</u> |

External control was re-injected due to carryover from the 1000 calibrator in the initial injection.

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

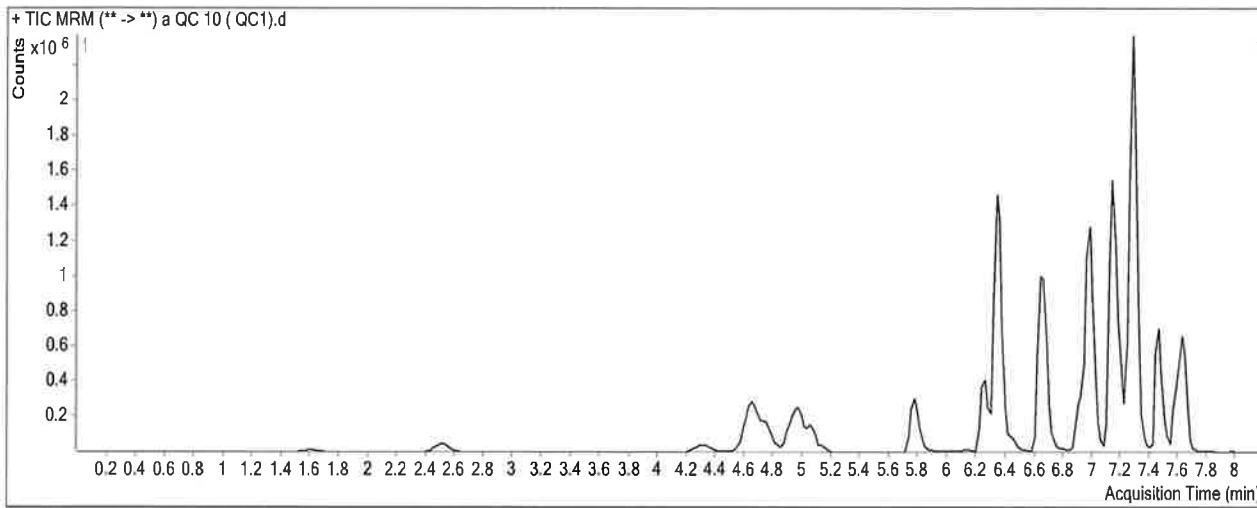
TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:44 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 19:41 **Data File** a QC 10 (QC1).d
Sample Type QC **Sample Name** a QC 10 (QC1).d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-H11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------------|------------------------------|------------------|------------------|-------------------|-------------------|---|
| Morphine | Morphine-D6 | 1.628 | 16390 | 38906 | 0.4213 | 9.4057 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 60930 | 259524 | 0.2348 | 9.4899 |
| Codeine | Codeine-D6 | 4.334 | 26942 | 131200 | 0.2054 | 9.7290 <i>Not evaluated. TS</i> |
| Oxycodone | Oxycodone-D6 | 4.691 | 257070 | 967742 | 0.2656 | 10.6977 |
| Amphetamine | Amphetamine-D11 | 4.764 | 493200 | 719924 | 0.6851 | 10.7378 |
| Hydrocodone | Hydrocodone-D6 | 4.954 | 87535 | 562103 | 0.1557 | 9.9471 |
| Norhydrocodone | Norhydrocodone-D3 | 5.017 | 6290 | 177031 | 0.0355 | 18.1343 <i>outside curve range. - TS</i> |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 296195 | 795265 | 0.3724 | 9.8175 |
| 6-MAM | 6-MAM-D6 | 5.150 | 2377 | 150804 | 0.0158 | 1.1752 <i>outside curve range. - TS</i> |
| Phentermine | Phentermine-D5 | 5.826 | 133084 | 1280002 | 0.1040 | 9.7803 |
| Dextrophan | Dextrophan-D3 | 6.266 | 147149 | 1197570 | 0.1229 | 9.6911 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 779567 | 4316935 | 0.1806 | 9.7438 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 112455 | 511436 | 0.2199 | 9.3616 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 83368 | 4316935 | 0.0193 | 10.7541 |
| Doxylamine | Doxylamine-D5 | 6.665 | 474252 | 3315678 | 0.1430 | 9.7025 |
| Bupropion | Bupropion-D9 | 6.933 | 245537 | 748665 | 0.3280 | 10.4557 |
| Zolpidem | Zolpidem-D6 | 7.004 | 629195 | 3875770 | 0.1623 | 9.6146 |
| Meprobamate | Meprobamate-D7 | 7.055 | 49667 | 189603 | 0.2620 | 10.6247 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 859663 | 3558760 | 0.2416 | 10.0800 |
| Trazodone | Trazodone-D6 | 7.197 | 409724 | 1319205 | 0.3106 | 11.0932 |

TS

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a QC 10 (QC1)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Citalopram | Citalopram-D6 | 7.260 | 435711 | 1990372 | 0.2189 | 9.8623 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 172729 | 597943 | 0.2889 | 11.9433 |
| Diphenhydramine | Diphenhydramine-D3 | 7.294 | 871098 | 4086323 | 0.2132 | 10.1553 |
| Promethazine | Promethazine-D3 | 7.470 | 481890 | 1634956 | 0.2947 | 10.0640 |
| Clonazepam | Clonazepam-D4 | 7.506 | 68119 | 61026 | 1.1162 | 9.7803 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 21809 | 105711 | 0.2063 | 9.7762 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 151987 | 677061 | 0.2245 | 9.6845 |
| Lorazepam | Clonazepam-D4 | 7.622 | 26438 | 61026 | 0.4332 | 9.6680 |
| Alprazolam | Alprazolam-D5 | 7.648 | 369219 | 1322269 | 0.2792 | 9.7458 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

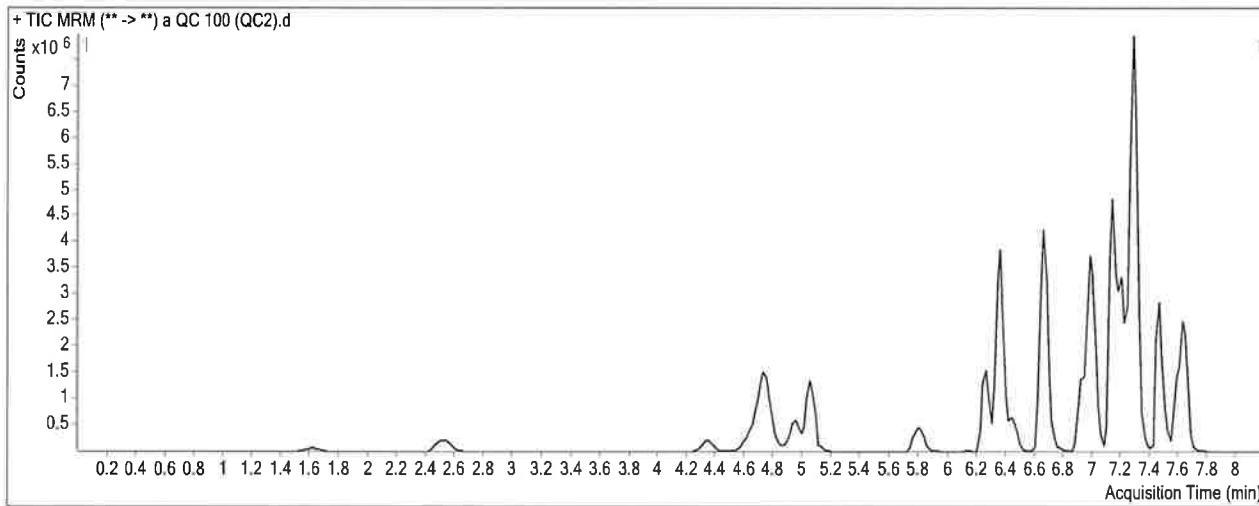
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklist 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:44 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 22:02 **Data File** a QC 100 (QC2).d
Sample Type QC **Sample Name** a QC 100 (QC2).d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-G11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|--------------------|-----------------------|------------------|-------------------|-------------------|-------------------|--|
| Morphine | Morphine-D6 | 1.628 | 183969 | 39278 | 4.6838 | 95.9295 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 748830 | 266695 | 2.8078 | 99.1848 |
| Codeine | Codeine-D6 | 4.354 | 299021 | 127116 | 2.3523 | 97.2464 <i>Not evaluated.</i> |
| Oxycodone | Oxycodone-D6 | 4.691 | 2871123 | 978887 | 2.9330 | 95.5137 |
| Amphetamine | Amphetamine-D11 | 4.764 | 4455629 | 695029 | 6.4107 | 108.1370 |
| Hydrocodone | Hydrocodone-D6 | 4.954 | 1104385 | 601438 | 1.8362 | 102.7196 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 74818 | 175730 | 0.4258 | 90.6070 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 2571660 | 689752 | 3.7284 | 94.2443 |
| 6-MAM | 6-MAM-D6 | 5.150 | 28475 | 151949 | 0.1874 | 9.2257 |
| Phentermine | Phentermine-D5 | 5.826 | 1380545 | 1193903 | 1.1563 | 104.1026 |
| Dextrophan | Dextrophan-D3 | 6.266 | 1791105 | 1284503 | 1.3944 | 100.4588 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 8228612 | 4491633 | 1.8320 | 100.0332 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.377 | 1245940 | 486474 | 2.5612 | 100.4571 |
| Metoprolol | Tramadol-13C-D3 | 6.464 | 896580 | 4491633 | 0.1996 | 110.2494 |
| Doxylamine | Doxylamine-D5 | 6.665 | 5324443 | 3458846 | 1.5394 | 95.4291 |
| Bupropion | Bupropion-D9 | 6.933 | 2276559 | 677132 | 3.3621 | 95.8268 |
| Zolpidem | Zolpidem-D6 | 7.004 | 7038928 | 3959676 | 1.7777 | 94.8320 |
| Meprobamate | Meprobamate-D7 | 7.055 | 595575 | 198074 | 3.0068 | 102.2035 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 9817509 | 3563158 | 2.7553 | 96.1034 |
| Trazodone | Trazodone-D6 | 7.197 | 4593955 | 1541027 | 2.9811 | 89.7543 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report a QC 100 (QC2)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 4534301 | 1995368 | 2.2724 | 92.5273 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 1835381 | 691071 | 2.6558 | 102.3539 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 9066454 | 4300317 | 2.1083 | 90.5509 |
| Promethazine | Promethazine-D3 | 7.470 | 5784757 | 1864645 | 3.1023 | 96.0520 |
| Clonazepam | Clonazepam-D4 | 7.506 | 699810 | 58044 | 12.0565 | 98.0720 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 227039 | 102143 | 2.2228 | 94.2647 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 1538602 | 545224 | 2.8220 | 115.7154 |
| Lorazepam | Clonazepam-D4 | 7.623 | 290772 | 58044 | 5.0095 | 88.1729 |
| Alprazolam | Alprazolam-D5 | 7.648 | 3702032 | 1220681 | 3.0328 | 95.9563 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

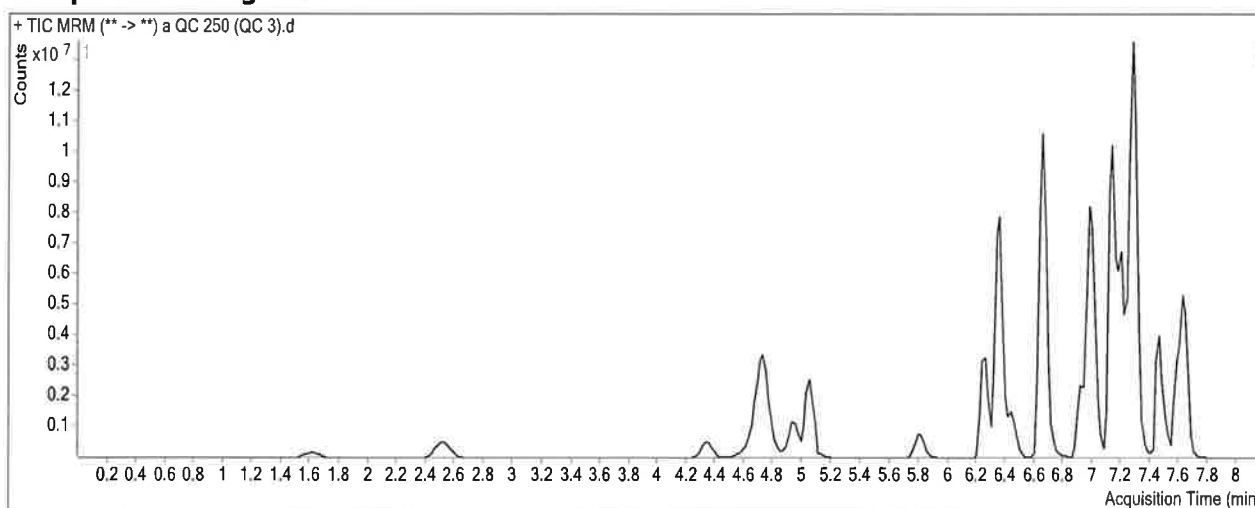
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:44 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-14 00:40 **Data File** a QC 250 (QC 3).d
Sample Type QC **Sample Name** a QC 250 (QC 3).d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-F11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|--------------------|-----------------------|------------------|-------------------|-------------------|-------------------|--|
| Morphine | Morphine-D6 | 1.628 | 494782 | 35795 | 13.8225 | 281.4321 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 1908472 | 256650 | 7.4361 | 260.5241 |
| Codeine | Codeine-D6 | 4.354 | 731436 | 119352 | 6.1284 | 251.1688 <i>Not evaluated</i> |
| Oxycodone | Oxycodone-D6 | 4.691 | 7556322 | 982699 | 7.6894 | 246.7508 |
| Amphetamine | Amphetamine-D11 | 4.744 | 9126047 | 589525 | 15.4803 | 262.4211 |
| Hydrocodone | Hydrocodone-D6 | 4.934 | 2675364 | 596046 | 4.4885 | 249.1382 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 203214 | 155606 | 1.3060 | 254.0777 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 4983357 | 514303 | 9.6895 | 244.2115 |
| 6-MAM | 6-MAM-D6 | 5.130 | 74715 | 151108 | 0.4944 | 23.6271 |
| Phentermine | Phentermine-D5 | 5.826 | 2944895 | 1020985 | 2.8844 | 258.9860 |
| Dextroprphan | Dextroprphan-D3 | 6.266 | 4523507 | 1300136 | 3.4793 | 249.2869 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 21990880 | 4451095 | 4.9406 | 269.9922 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 2786860 | 435796 | 6.3949 | 249.6206 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 2108756 | 4451095 | 0.4738 | 261.5347 |
| Doxylamine | Doxylamine-D5 | 6.665 | 14309665 | 3376610 | 4.2379 | 261.1012 |
| Bupropion | Bupropion-D9 | 6.933 | 4104532 | 514101 | 7.9839 | 225.8729 |
| Zolpidem | Zolpidem-D6 | 6.983 | 19189187 | 3835526 | 5.0030 | 264.9894 |
| Meprobamate | Meprobamate-D7 | 7.055 | 1473889 | 192533 | 7.6553 | 257.2913 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 25355639 | 3462644 | 7.3226 | 252.4049 |
| Trazodone | Trazodone-D6 | 7.197 | 9424162 | 1189922 | 7.9200 | 235.2310 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report a QC 250 (GC3)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 8885898 | 1433870 | 6.1971 | 250.5194 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 3474694 | 530266 | 6.5527 | 251.2016 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 20384538 | 3315136 | 6.1489 | 261.9606 |
| Promethazine | Promethazine-D3 | 7.470 | 9410744 | 1157345 | 8.1313 | 250.0743 |
| Clonazepam | Clonazepam-D4 | 7.506 | 1761007 | 54131 | 32.5321 | 263.3159 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 604877 | 95895 | 6.3077 | 265.4233 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 3647790 | 583098 | 6.2559 | 255.8900 |
| Lorazepam | Clonazepam-D4 | 7.622 | 703069 | 54131 | 12.9882 | 225.0449 |
| Alprazolam | Alprazolam-D5 | 7.648 | 8903695 | 1116903 | 7.9718 | 250.5923 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

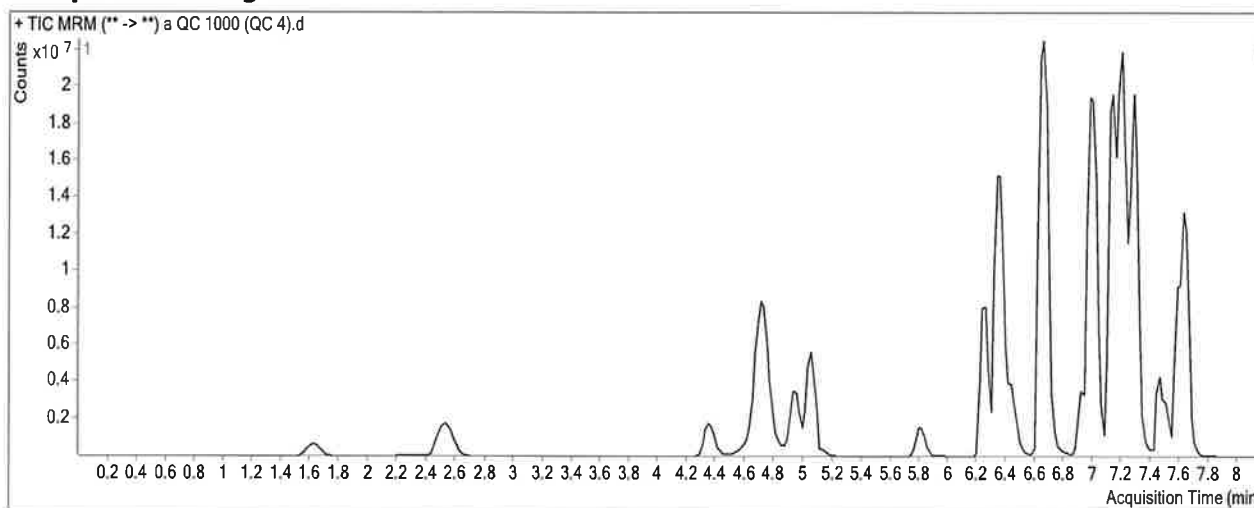
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklt 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:45 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-14 03:17 **Data File** a QC 1000 (QC 4).d
Sample Type QC **Sample Name** a QC 1000 (QC 4).d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-E11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|------------------------|---------------------------|------------------|---------------------|--------------------|--------------------|--|
| Morphine | Morphine-D6 | 1.628 | 1784019 | 31868 | 55.9821 | 1137.2163 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 6784582 | 219812 | 30.8653 | 1077.2566 |
| Codeine | Codeine-D6 | 4.354 | 2387556 | 86564 | 27.5813 | 1125.6500 <i>Not evaluated. -TS</i> |
| Oxycodone | Oxycodone-D6 | 4.691 | 28558993 | 854511 | 33.4214 | 1064.9586 |
| Amphetamine | Amphetamine-D11 | 4.744 | 16792914 | 287274 | 58.4560 | 993.4830 |
| Hydrocodone | Hydrocodone-D6 | 4.934 | 9347951 | 509902 | 18.3328 | 1013.4109 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 728593 | 105792 | 6.8871 | 1290.6065 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 11193740 | 269547 | 41.5280 | 1045.1860 |
| 6-MAM | 6-MAM-D6 | 5.150 | 286738 | 129873 | 2.2078 | 103.9909 |
| Phentermine | Phentermine-D5 | 5.826 | 6958559 | 638329 | 10.9012 | 977.5322 |
| Dextrophan | Dextrophan-D3 | 6.246 | 11995727 | 829173 | 14.4671 | 1033.6552 |
| Tramadol | Tramadol-13C-D3 | 6.344 | 57431522 | 3353941 | 17.1236 | 936.0919 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 6989071 | 279510 | 25.0047 | 973.6995 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 5297835 | 3353941 | 1.5796 | 871.7657 |
| Doxylamine | Doxylamine-D5 | 6.665 | 44694846 | 2813032 | 15.8885 | 976.3780 |
| Bupropion | Bupropion-D9 | 6.933 | 5905327 | 188439 | 31.3382 | 882.9992 |
| Zolpidem | Zolpidem-D6 | 6.983 | 57603318 | 3295741 | 17.4781 | 923.1262 |
| Meprobamate | Meprobamate-D7 | 7.055 | 5041504 | 145497 | 34.6501 | 1157.9337 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 58336548 | 2275571 | 25.6360 | 879.1173 <i>Outside curve range. TS</i> |
| Trazodone | Trazodone-D6 | 7.197 | 32719970 | 921254 | 35.5168 | 1048.1057 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report a QC 1000 (QC 4)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 14297865 | 551638 | 25.9189 | 1044.4301 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 4616536 | 170282 | 27.1111 | 1036.4628 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 31157647 | 1348287 | 23.1091 | 981.4396 |
| Promethazine | Promethazine-D3 | 7.470 | 11018512 | 327669 | 33.6269 | 1030.9264 |
| Clonazepam | Clonazepam-D4 | 7.506 | 5244870 | 43408 | 120.8283 | 975.8939 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 2220947 | 92271 | 24.0699 | 1009.6524 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 9810090 | 389091 | 25.2129 | 1029.7260 |
| Lorazepam | Clonazepam-D4 | 7.622 | 2535177 | 43408 | 58.4040 | 1004.1394 |
| Alprazolam | Alprazolam-D5 | 7.648 | 24724874 | 698413 | 35.4015 | 1109.3926 |

outside curve range. TS

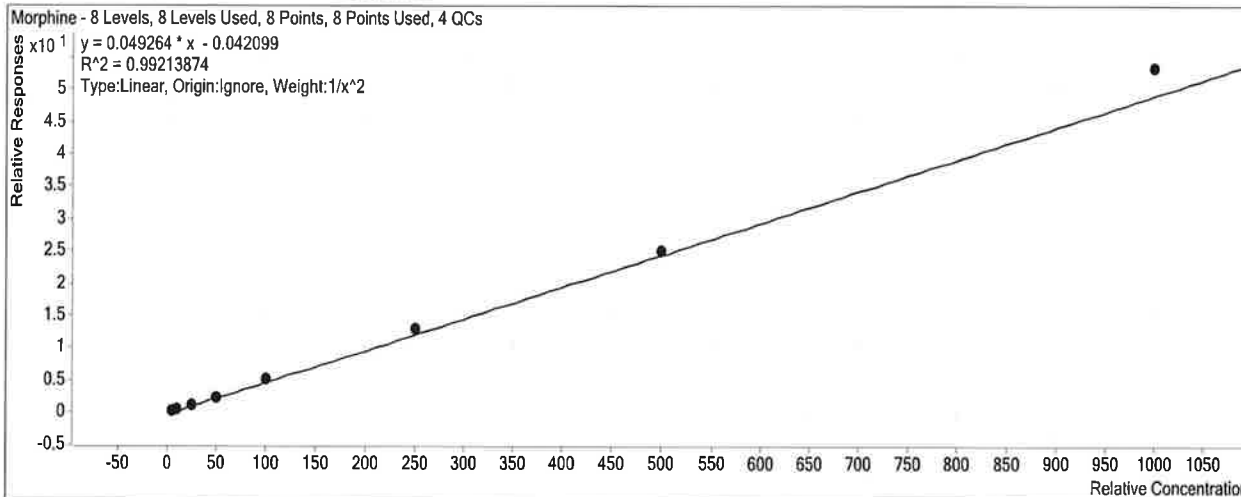
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Morphine*
Internal Standard *Morphine-D6*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.3 | 106.8 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.2 | 91.7 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.4 | 94.1 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.2 | 89.0 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 46.3 | 92.6 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 103.8 | 103.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 95.9 | 95.9 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 264.9 | 106.0 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 281.4 | 112.6 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 508.9 | 101.8 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1085.0 | 108.5 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1137.2 | 113.7 |

ISP Forensics Calibration Curve Report

TS

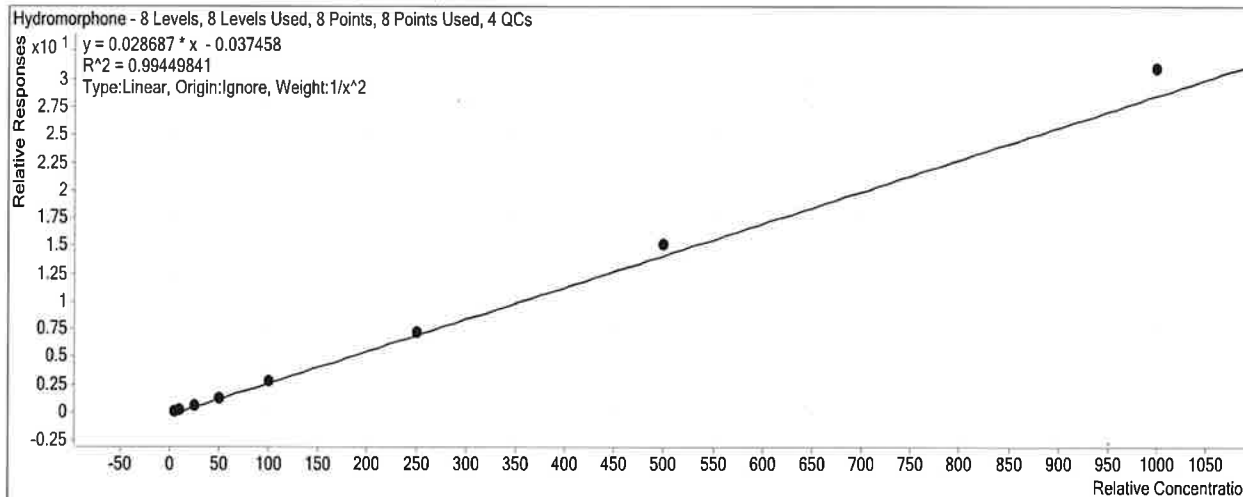
Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ

121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM

Analyst Name ISP TOX

Target Compound *Hydromorphone*
Internal Standard *Hydromorphone-D6*



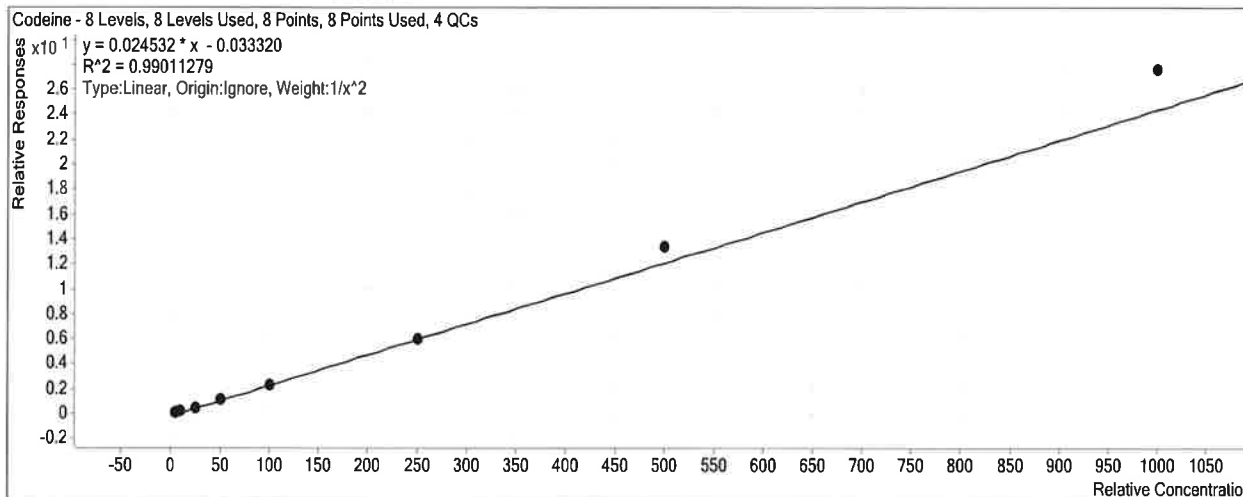
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.3 | 105.4 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.4 | 94.0 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.5 | 94.9 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.5 | 90.2 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.5 | 94.9 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 99.8 | 99.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 99.2 | 99.2 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 254.1 | 101.6 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 260.5 | 104.2 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 529.2 | 105.8 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1082.5 | 108.3 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1077.3 | 107.7 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Codeine
Internal Standard Codeine-D6



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.3 | 106.7 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.2 | 91.5 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.3 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.3 | 89.3 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 49.0 | 98.1 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 94.1 | 94.1 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 97.2 | 97.2 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 245.4 | 98.1 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 251.2 | 100.5 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 546.5 | 109.3 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1128.5 | 112.9 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1125.7 | 112.6 |

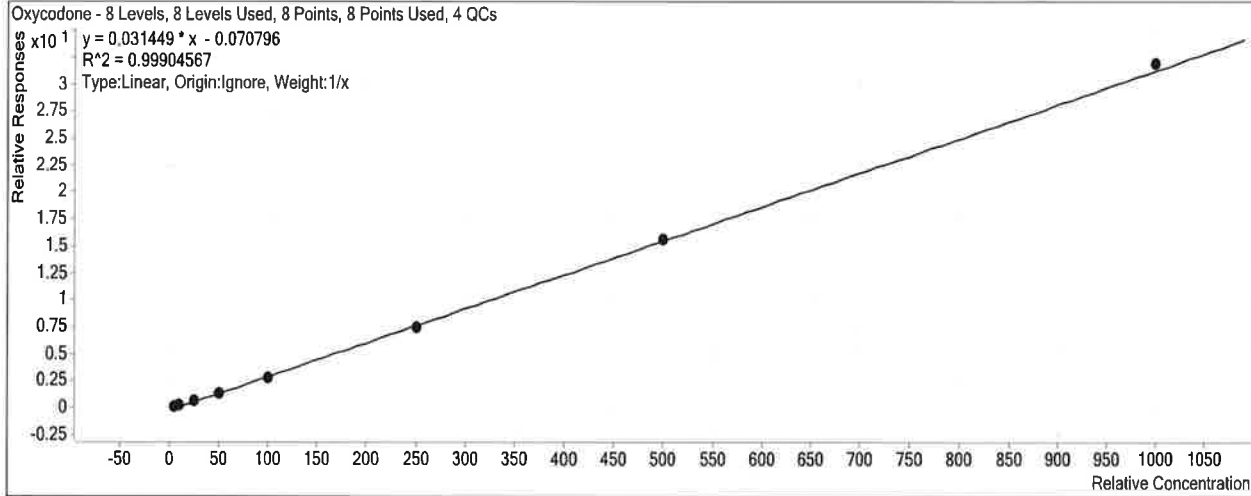
*Compound not evaluated. -TS

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Oxycodone
Internal Standard Oxycodone-D6



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.0 | 120.7 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.2 | 102.2 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.7 | 107.0 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.8 | 91.1 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.1 | 94.2 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 93.3 | 93.3 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 95.5 | 95.5 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 241.3 | 96.5 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 246.8 | 98.7 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 500.3 | 100.1 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1019.0 | 101.9 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1065.0 | 106.5 |

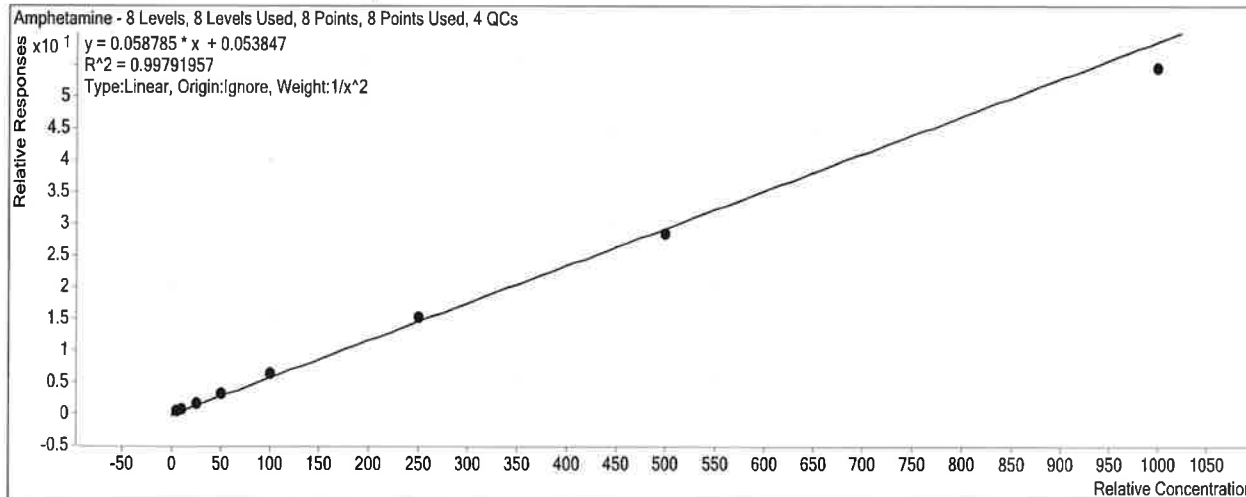
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Amphetamine*
Internal Standard *Amphetamine-D11*



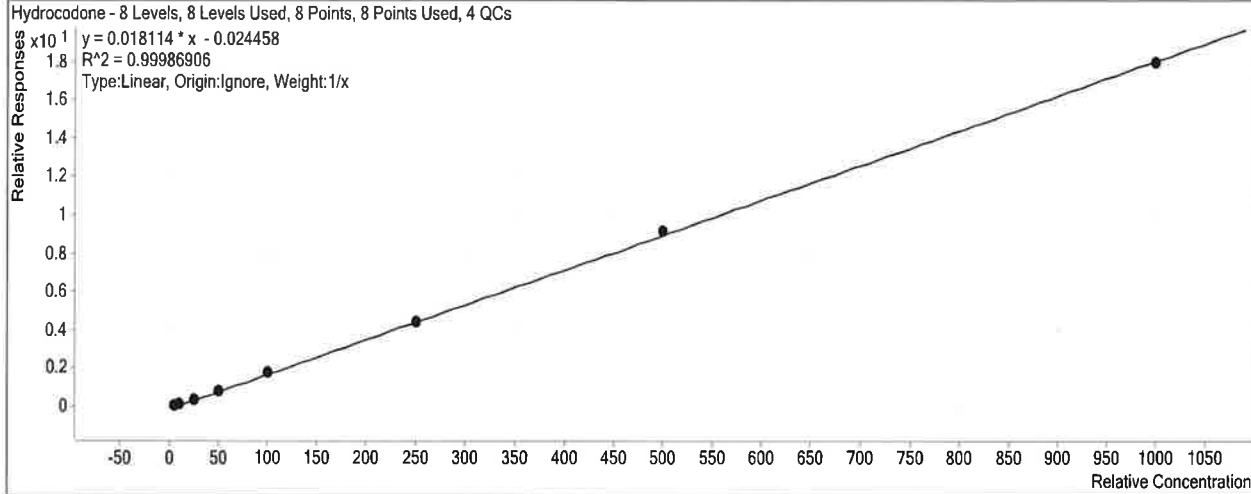
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.0 | 99.3 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 99.7 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.7 | 107.4 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 25.6 | 102.6 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 50.5 | 100.9 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 105.1 | 105.1 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 108.1 | 108.1 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 258.1 | 103.3 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 262.4 | 105.0 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 482.5 | 96.5 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 926.9 | 92.7 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 993.5 | 99.3 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Hydrocodone
Internal Standard Hydrocodone-D6



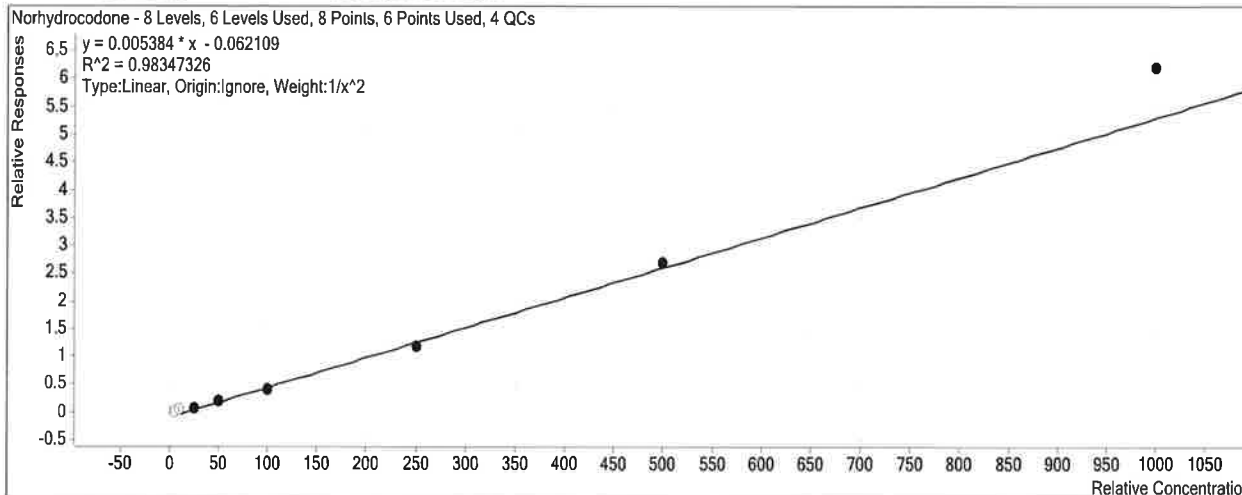
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.1 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.1 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.9 | 99.5 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.5 | 98.1 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 49.1 | 98.3 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 102.2 | 102.2 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 102.7 | 102.7 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 248.5 | 99.4 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 249.1 | 99.7 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 506.9 | 101.4 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 993.8 | 99.4 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1013.4 | 101.3 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Norhydrocodone*
Internal Standard *Norhydrocodone-D3*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input type="checkbox"/> | 5 | 14.1 | 282.2 |
| a cal 2-10ng_reinject.d | 2 | <input type="checkbox"/> | 10 | 18.0 | 180.1 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 18.1 | 181.3 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 26.6 | 106.4 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 46.7 | 93.5 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 88.1 | 88.1 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 90.6 | 90.6 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 233.5 | 93.4 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 254.1 | 101.6 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 511.9 | 102.4 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1162.7 | 116.3 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1290.6 | 129.1 |

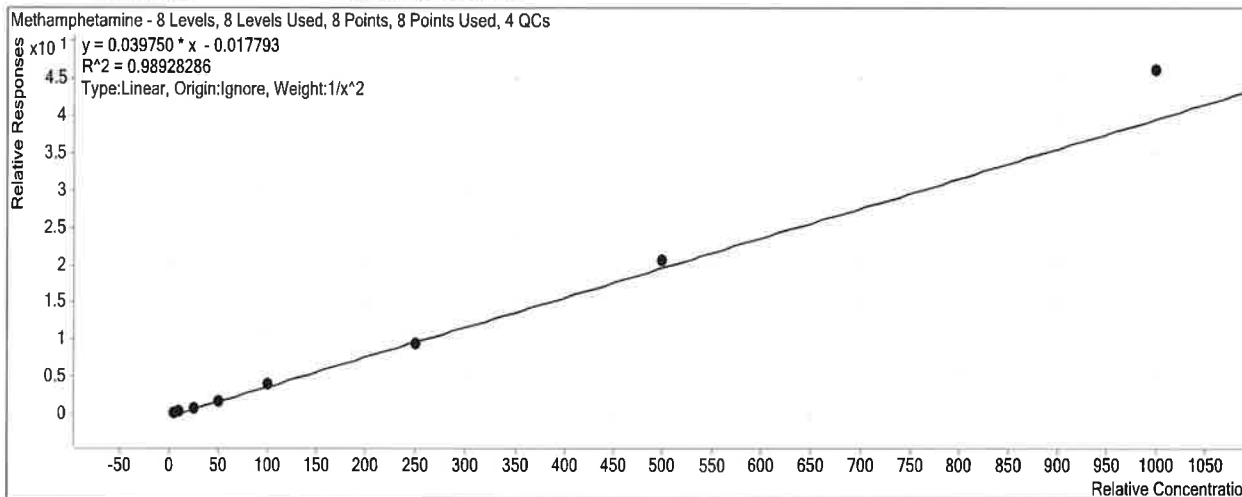
ISP Forensics Calibration Curve Report

15

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Methamphetamine*
Internal Standard *Methamphetamine-D11*



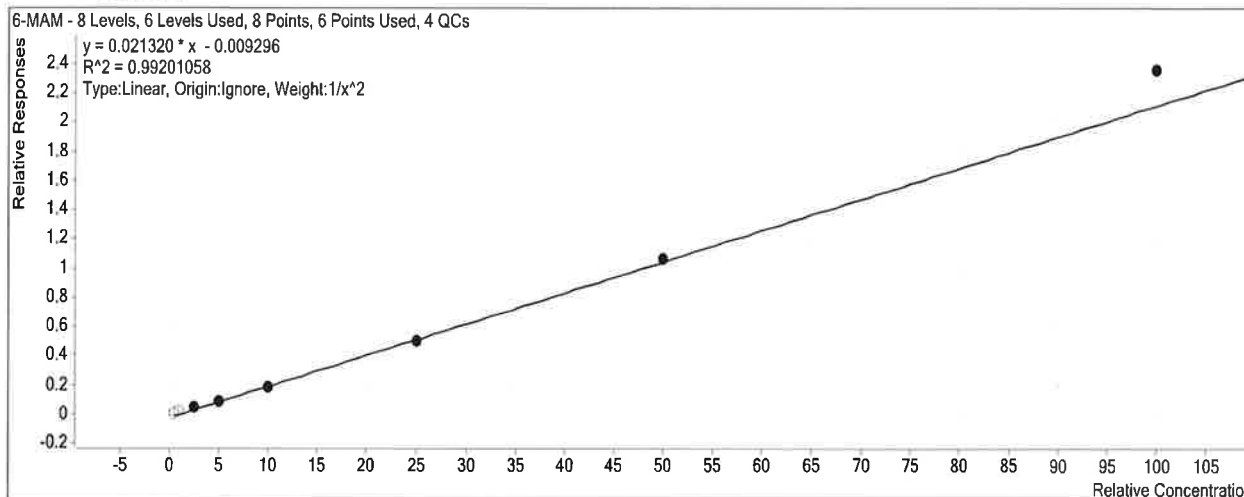
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.3 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 97.8 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 98.2 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.0 | 87.8 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 45.1 | 90.2 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 102.8 | 102.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 94.2 | 94.2 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 241.5 | 96.6 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 244.2 | 97.7 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 520.8 | 104.2 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1162.9 | 116.3 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1045.2 | 104.5 |

ISP Forensics Calibration Curve Report

15

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound 6-MAM
Internal Standard 6-MAM-D6



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input type="checkbox"/> | 0.5 | 0.8 | 162.8 |
| a cal 2-10ng_reinject.d | 2 | <input type="checkbox"/> | 1 | 1.3 | 133.1 |
| a QC 10 (QC1).d | 2 | <input type="checkbox"/> | 1 | 1.2 | 117.5 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 2.5 | 2.6 | 105.1 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 5 | 4.7 | 93.2 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 10 | 9.3 | 93.3 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 10 | 9.2 | 92.3 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 25 | 24.0 | 96.1 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 25 | 23.6 | 94.5 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 50 | 50.6 | 101.1 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 100 | 111.2 | 111.2 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 100 | 104.0 | 104.0 |

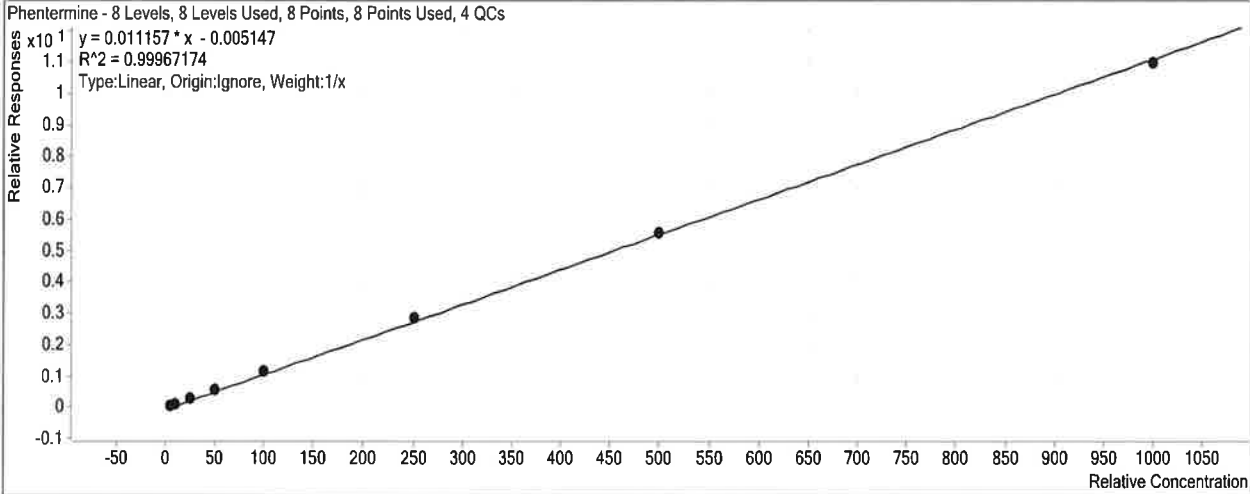
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklist 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Phentermine*
Internal Standard *Phentermine-D5*



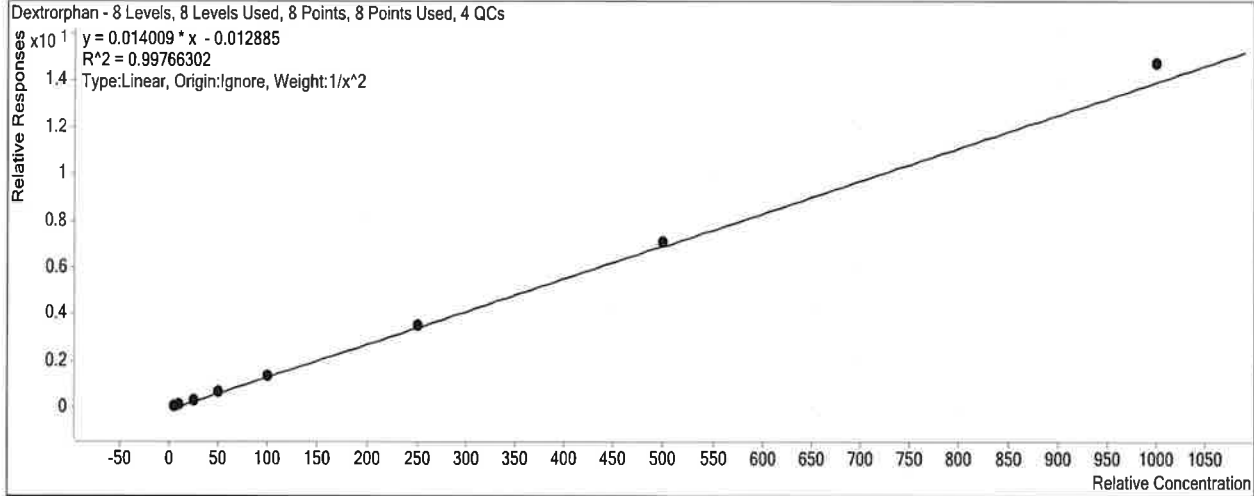
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.0 | 99.1 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.4 | 94.2 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 97.8 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.5 | 97.8 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 51.6 | 103.2 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 104.2 | 104.2 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 104.1 | 104.1 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 256.1 | 102.4 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 259.0 | 103.6 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 501.8 | 100.4 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 987.5 | 98.8 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 977.5 | 97.8 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Dextrorphan
Internal Standard Dextrorphan-D3



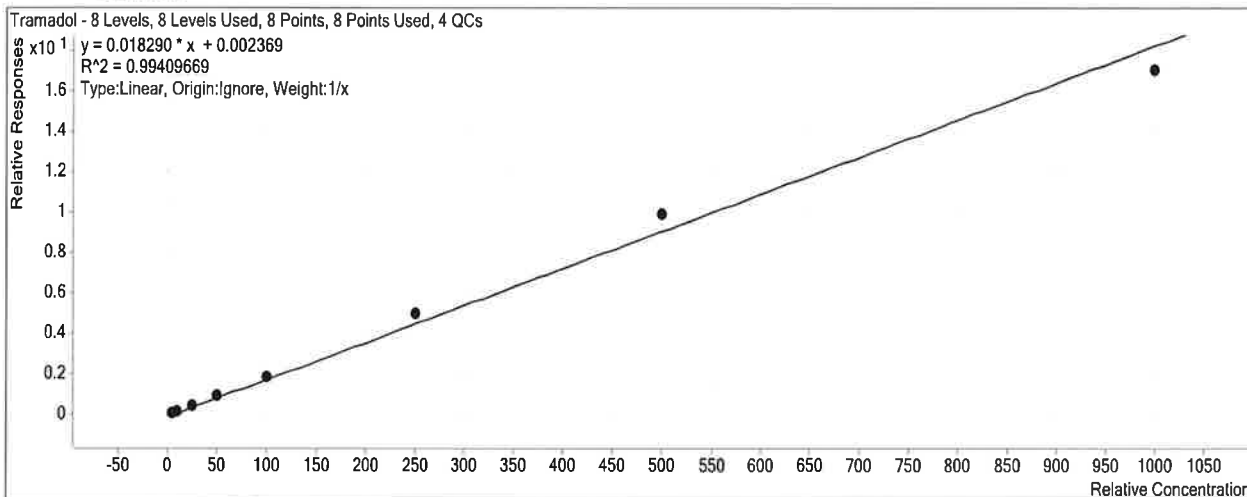
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.9 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.5 | 94.9 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.9 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.3 | 93.1 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 49.8 | 99.6 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 100.3 | 100.3 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 100.5 | 100.5 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 252.9 | 101.2 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 249.3 | 99.7 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 507.3 | 101.5 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1055.9 | 105.6 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1033.7 | 103.4 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklist 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Tramadol
Internal Standard Tramadol-13C-D3



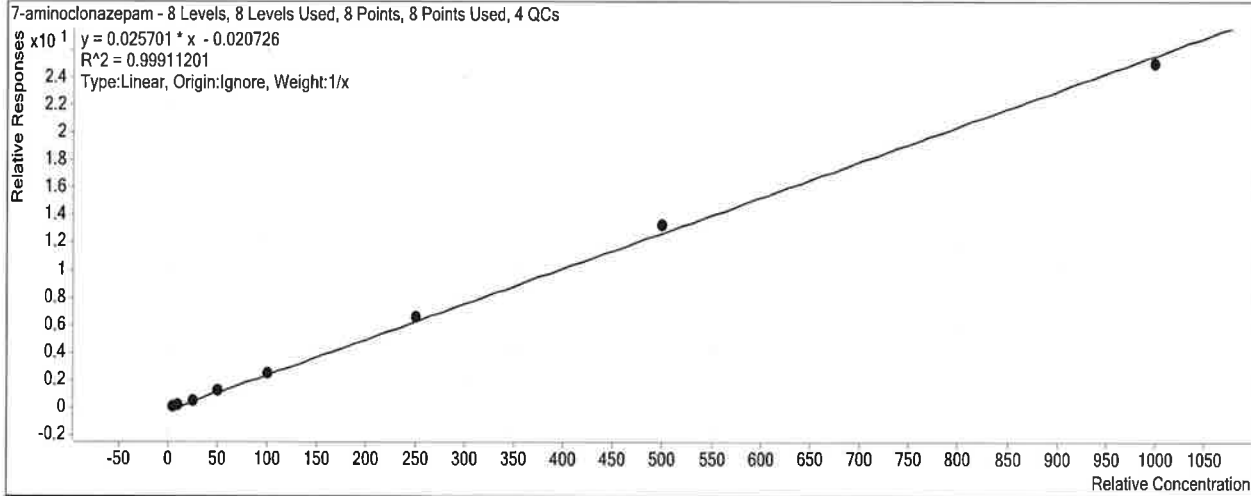
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 4.7 | 94.1 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.5 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.4 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.8 | 95.2 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 50.4 | 100.8 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 102.2 | 102.2 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 100.0 | 100.0 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 273.2 | 109.3 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 270.0 | 108.0 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 543.2 | 108.6 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 932.9 | 93.3 |
| a QC 1000 (QC 4).d | 8 | <input type="checkbox"/> | 1000 | 936.1 | 93.6 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound 7-aminoclonazepam
Internal Standard 7-Aminoclonazepam-D4



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.0 | 100.9 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.9 | 99.0 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.4 | 93.6 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.8 | 95.3 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 50.2 | 100.4 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 100.5 | 100.5 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 100.5 | 100.5 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 256.4 | 102.6 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 249.6 | 99.8 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 519.1 | 103.8 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 975.0 | 97.5 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 973.7 | 97.4 |

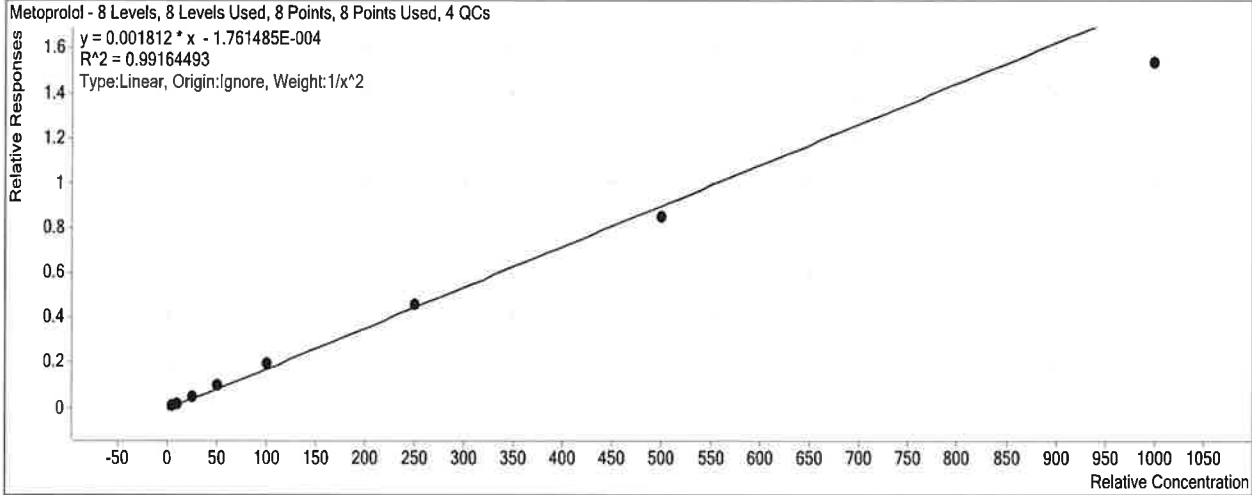
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Metoprolol*
Internal Standard *Tramadol-13C-D3*



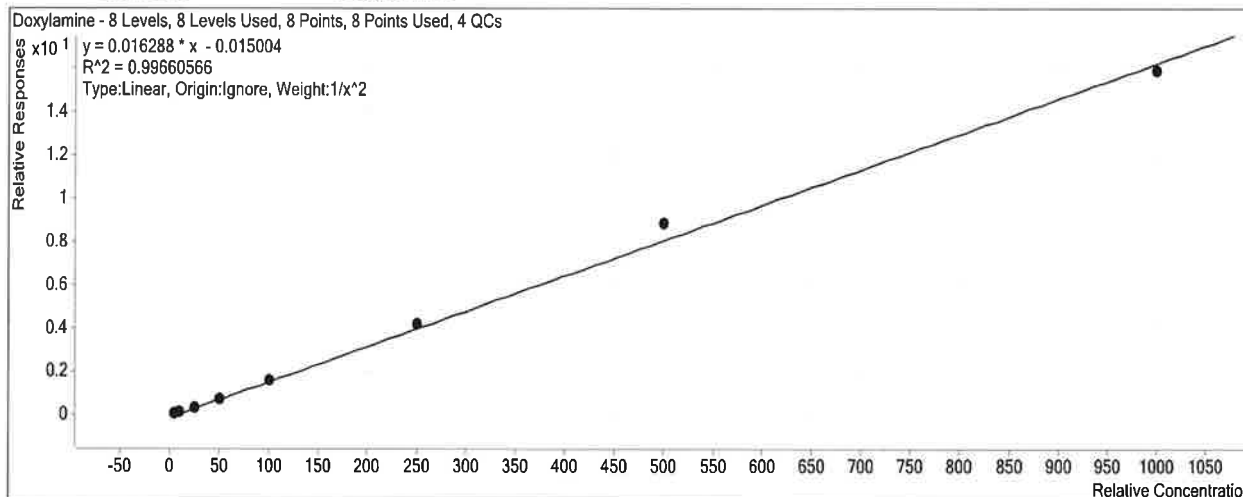
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.0 | 99.1 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.2 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.8 | 107.5 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 26.4 | 105.8 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 53.9 | 107.9 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 108.8 | 108.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 110.2 | 110.2 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 255.3 | 102.1 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 261.5 | 104.6 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 471.0 | 94.2 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 849.8 | 85.0 |
| a QC 1000 (QC 4).d | 8 | <input type="checkbox"/> | 1000 | 871.8 | 87.2 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklist 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Doxylamine
Internal Standard Doxylamine-D5



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.6 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.6 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.0 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.6 | 94.5 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.0 | 95.9 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 99.7 | 99.7 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 95.4 | 95.4 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 259.9 | 103.9 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 261.1 | 104.4 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 544.8 | 109.0 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 977.6 | 97.8 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 976.4 | 97.6 |

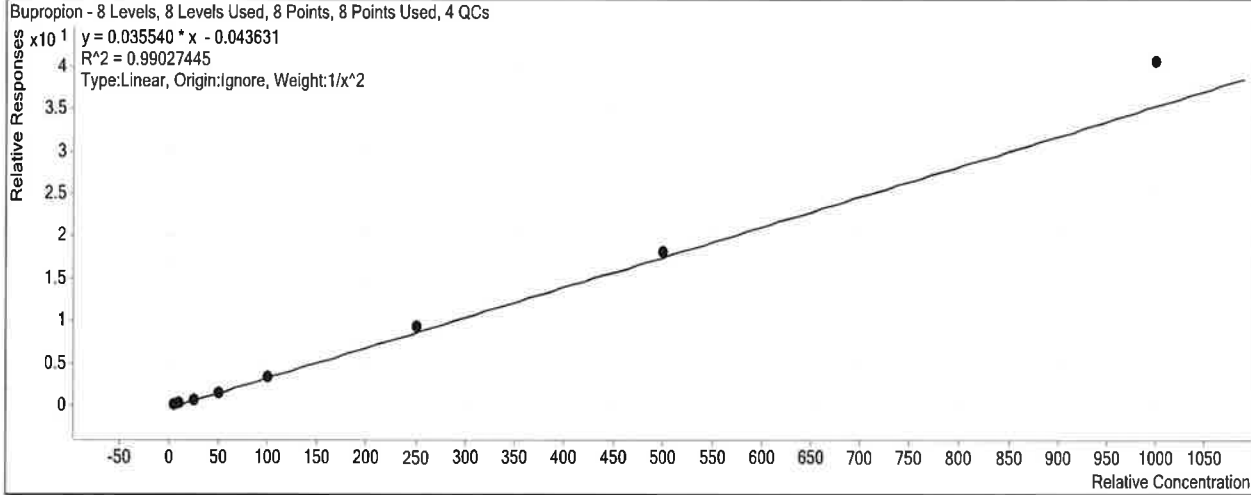
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Bupropion*
Internal Standard *Bupropion-D9*



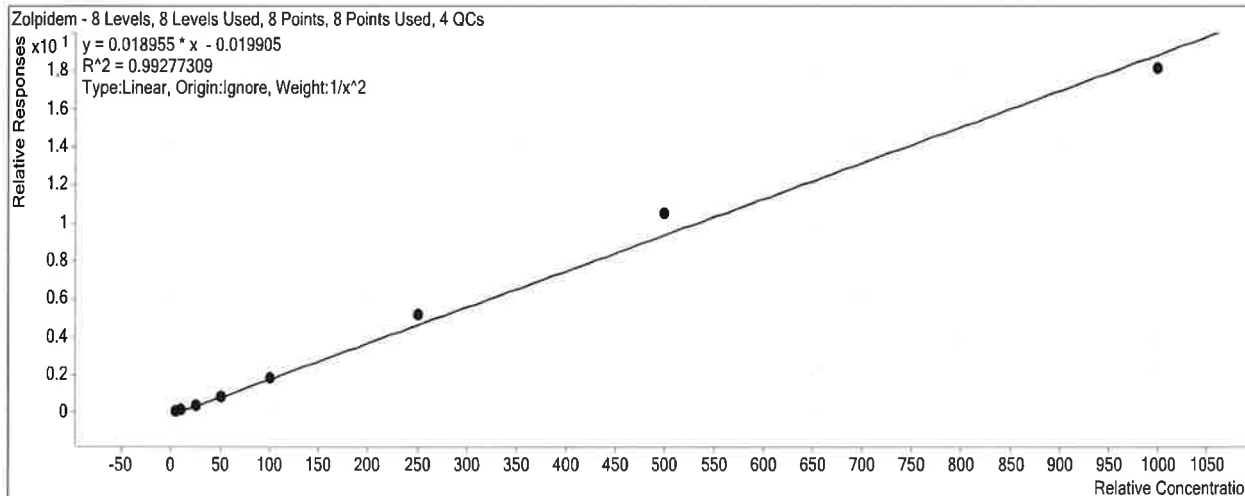
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.3 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 99.9 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.5 | 104.6 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.3 | 89.1 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 44.5 | 89.0 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 95.8 | 95.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 95.8 | 95.8 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 263.3 | 105.3 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 225.9 | 90.3 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 514.8 | 103.0 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1145.9 | 114.6 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 883.0 | 88.3 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Zolpidem
Internal Standard Zolpidem-D6



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.3 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.6 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 96.1 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.0 | 92.0 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 46.3 | 92.6 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 99.0 | 99.0 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 94.8 | 94.8 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 273.2 | 109.3 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 265.0 | 106.0 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 555.8 | 111.2 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 961.1 | 96.1 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 923.1 | 92.3 |

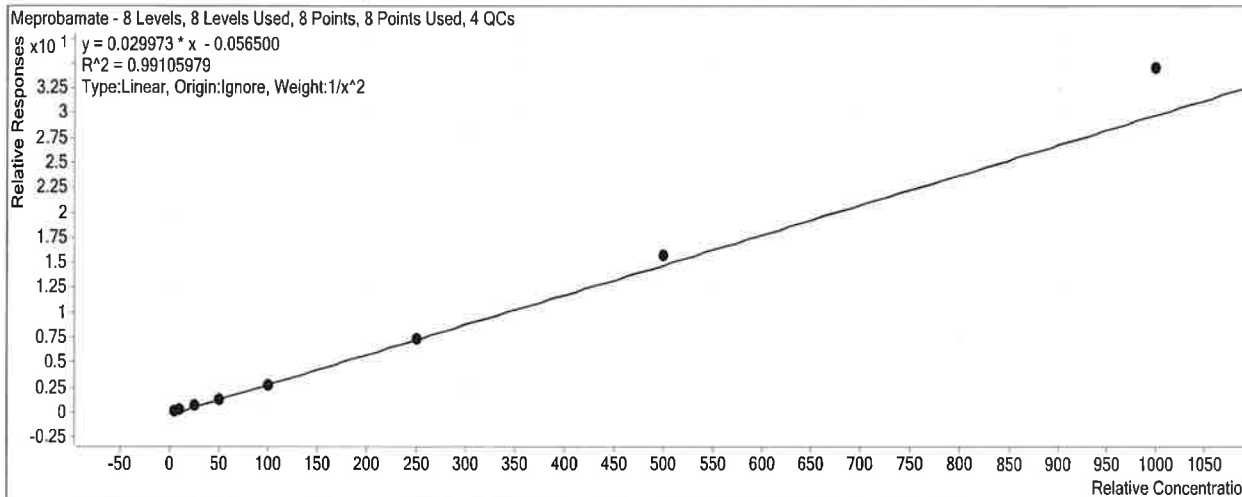
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Meprobamate
Internal Standard Meprobamate-D7



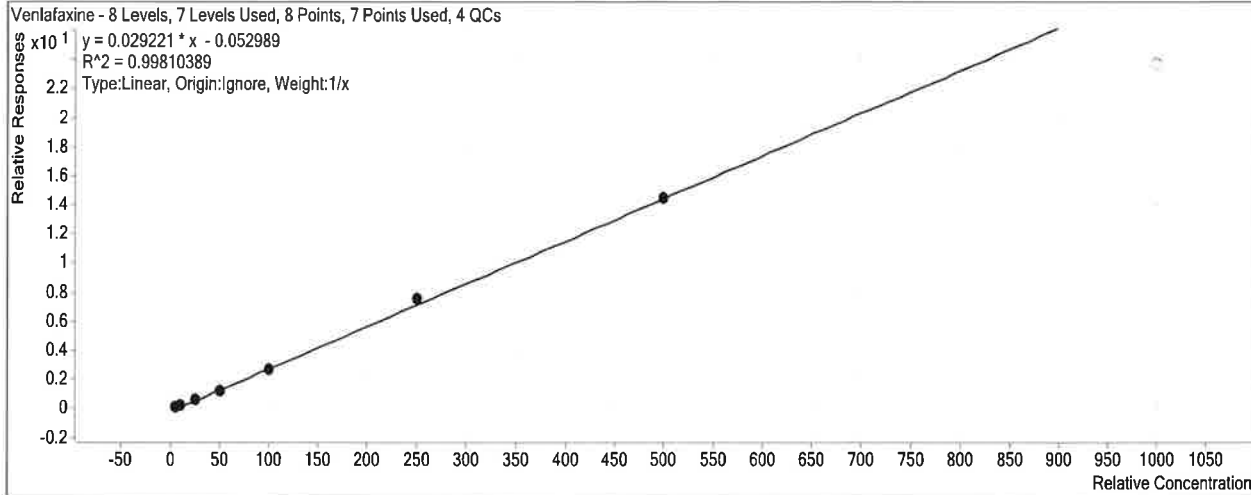
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.2 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.5 | 95.0 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.6 | 106.2 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.3 | 97.3 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 45.8 | 91.7 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 90.9 | 90.9 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 102.2 | 102.2 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 249.4 | 99.8 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 257.3 | 102.9 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 528.1 | 105.6 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1155.5 | 115.6 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1157.9 | 115.8 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Venlafaxine
Internal Standard Venlafaxine-D6



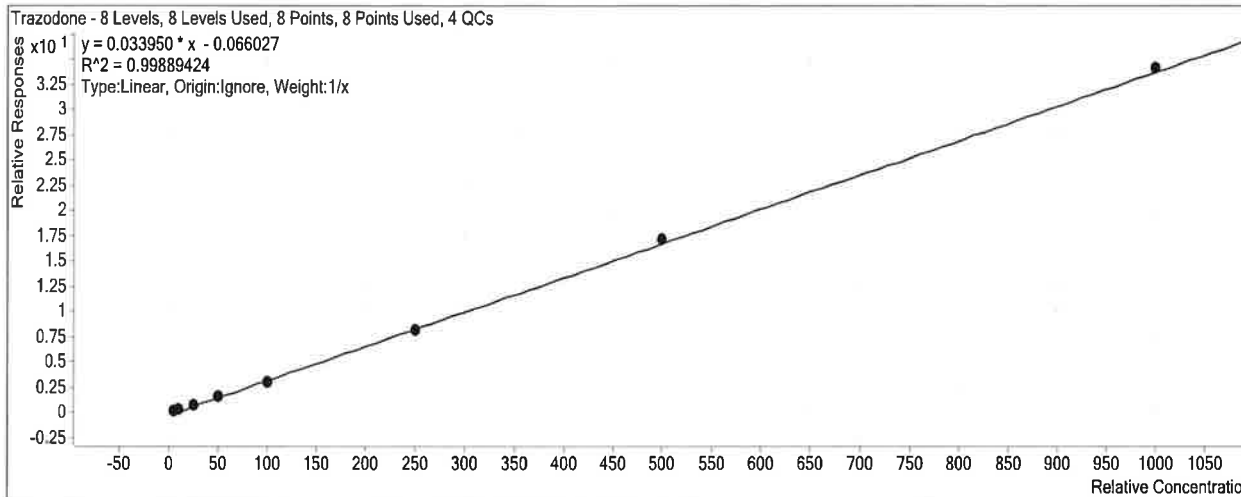
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.9 | 118.0 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.1 | 101.0 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.1 | 100.8 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.9 | 91.4 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 44.7 | 89.4 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 96.0 | 96.0 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 96.1 | 96.1 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 260.8 | 104.3 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 252.4 | 101.0 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 499.7 | 99.9 |
| a cal 8-1000ng.d | 8 | <input type="checkbox"/> | 1000 | 814.2 | 81.4 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 879.1 | 87.9 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Trazodone
Internal Standard Trazodone-D6



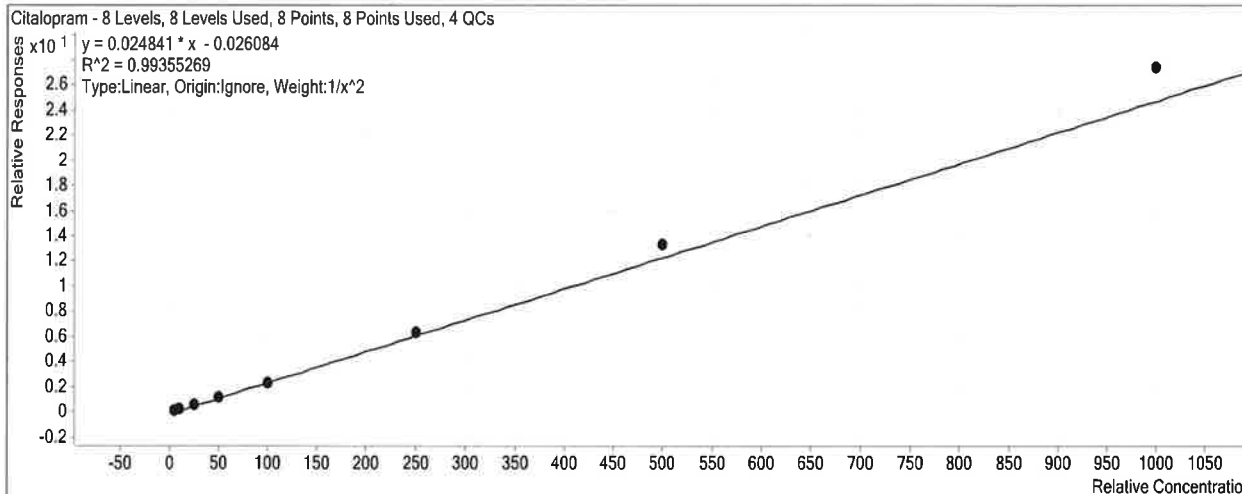
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.0 | 120.7 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.3 | 102.9 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 11.1 | 110.9 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.5 | 89.9 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.8 | 95.5 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 91.2 | 91.2 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 89.8 | 89.8 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 241.6 | 96.7 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 235.2 | 94.1 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 510.3 | 102.1 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1010.4 | 101.0 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1048.1 | 104.8 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Citalopram
Internal Standard Citalopram-D6



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.3 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.5 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.9 | 98.6 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.6 | 90.5 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 46.8 | 93.6 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 95.8 | 95.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 92.5 | 92.5 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 254.0 | 101.6 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 250.5 | 100.2 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 534.9 | 107.0 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1105.9 | 110.6 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1044.4 | 104.4 |

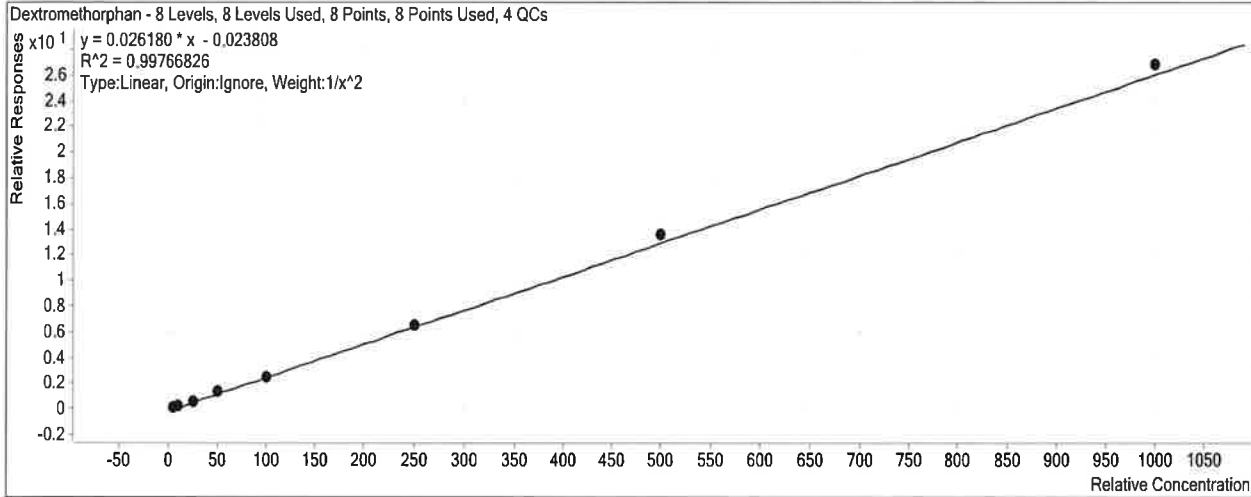
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *Dextromethorphan*
Internal Standard *Dextromethorphan-D3*



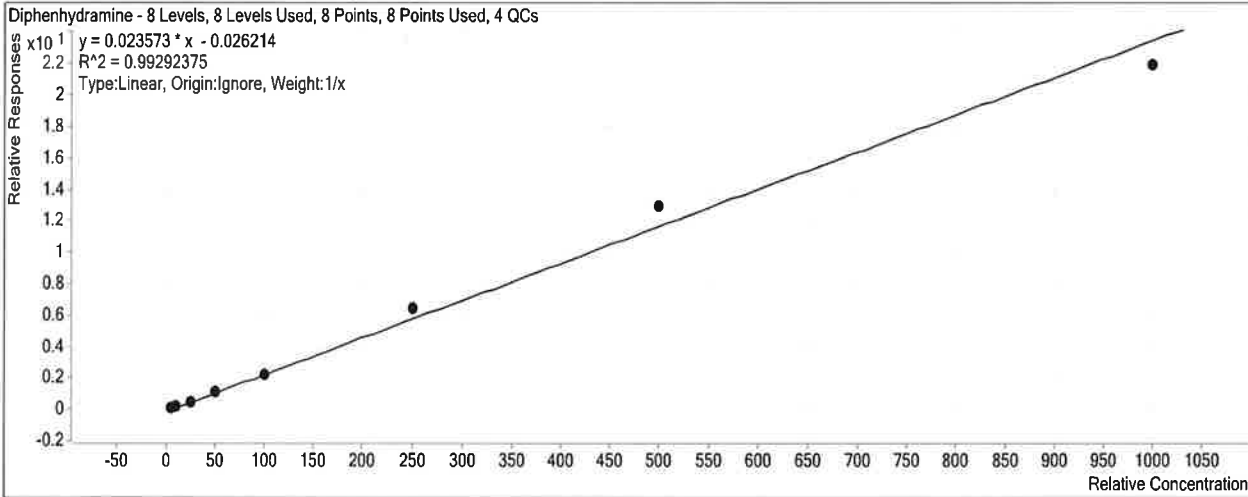
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.0 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.3 | 92.7 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 11.9 | 119.4 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.3 | 97.3 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 51.6 | 103.2 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 96.3 | 96.3 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 102.4 | 102.4 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 249.5 | 99.8 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 251.2 | 100.5 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 519.4 | 103.9 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1028.6 | 102.9 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1036.5 | 103.6 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Diphenhydramine
Internal Standard Diphenhydramine-D3



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.3 | 105.6 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 98.5 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.2 | 101.6 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.7 | 91.0 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.4 | 94.7 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 97.1 | 97.1 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 90.6 | 90.6 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 274.3 | 109.7 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 262.0 | 104.8 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 551.1 | 110.2 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 932.3 | 93.2 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 981.4 | 98.1 |

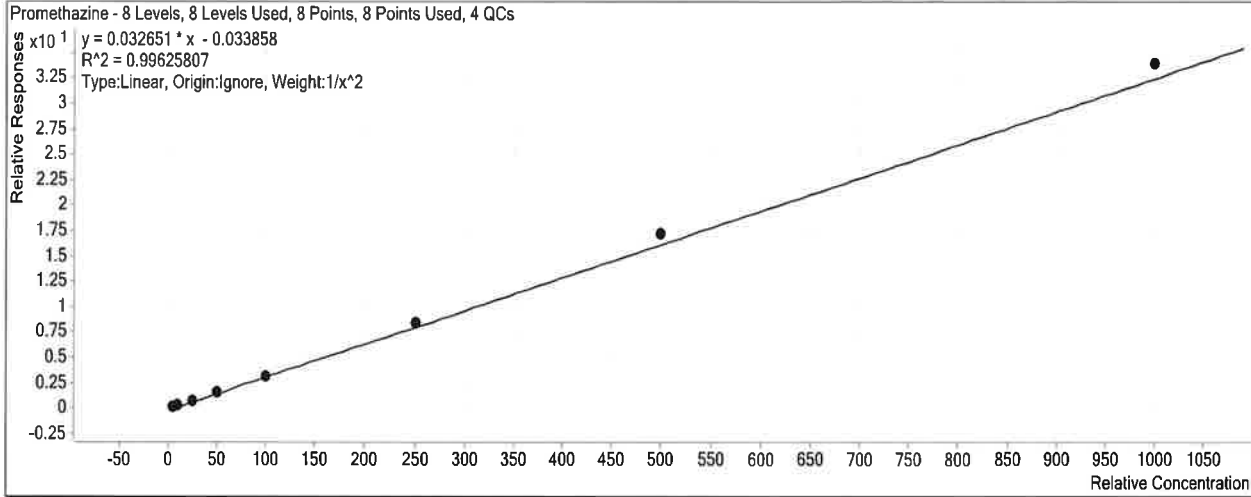
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Promethazine
Internal Standard Promethazine-D3



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.0 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 96.1 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.1 | 100.6 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.7 | 91.0 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.2 | 96.4 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 98.3 | 98.3 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 96.1 | 96.1 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 259.7 | 103.9 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 250.1 | 100.0 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 529.9 | 106.0 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1042.8 | 104.3 |
| a QC 1000 (QC 4).d | 8 | <input type="checkbox"/> | 1000 | 1030.9 | 103.1 |

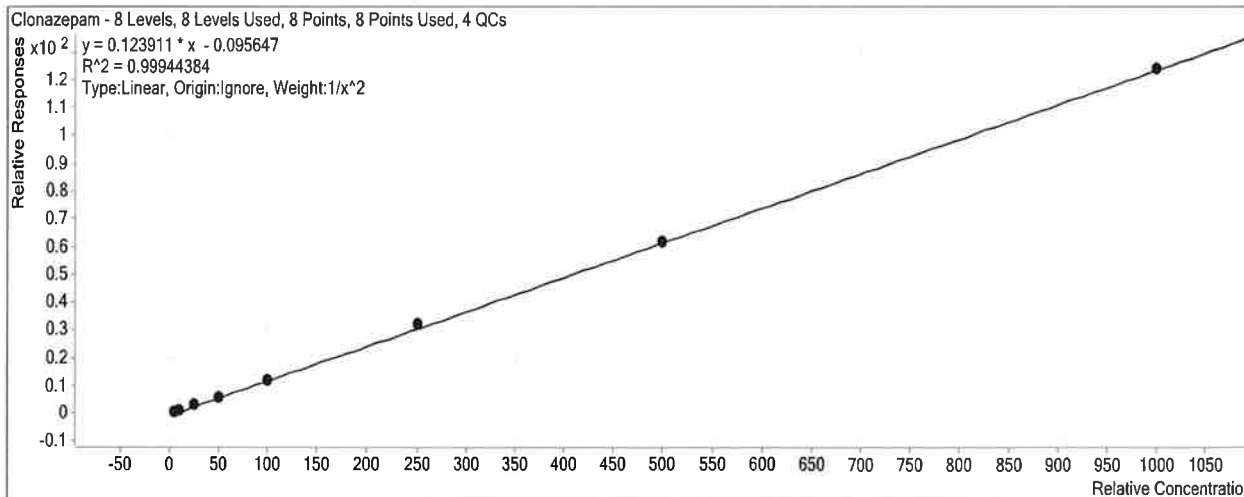
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Clonazepam
Internal Standard Clonazepam-D4



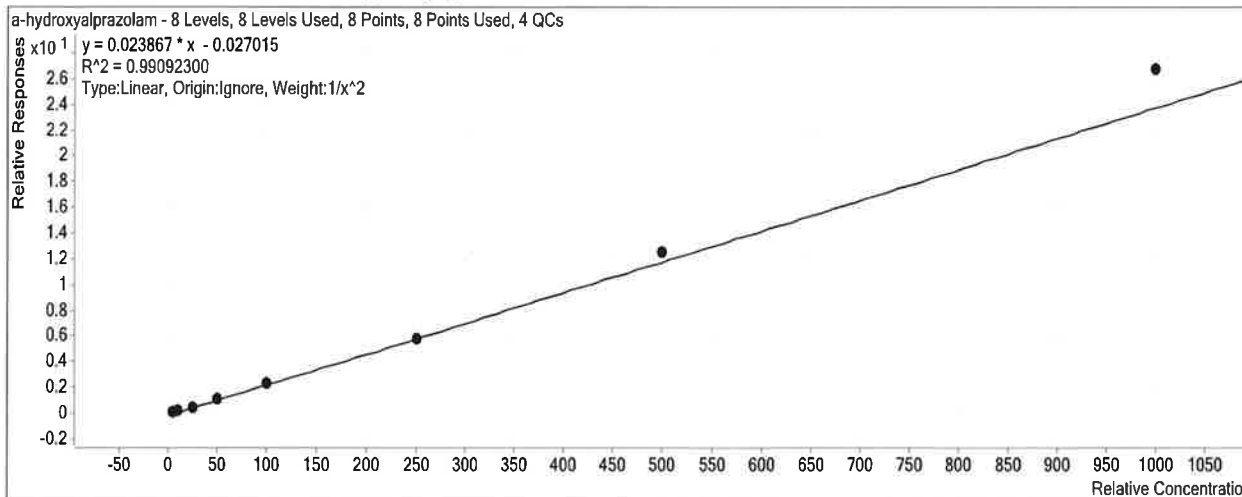
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.1 | 101.6 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.5 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 97.8 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.7 | 98.7 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 49.1 | 98.2 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 99.8 | 99.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 98.1 | 98.1 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 259.7 | 103.9 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 263.3 | 105.3 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 500.6 | 100.1 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1002.9 | 100.3 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 975.9 | 97.6 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound *a-hydroxyalprazolam*
Internal Standard *a-hydroxyalprazolam-D5*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.4 | 107.3 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.0 | 90.4 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 97.8 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.1 | 88.2 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 49.0 | 98.0 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 100.8 | 100.8 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 94.3 | 94.3 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 243.2 | 97.3 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 265.4 | 106.2 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 528.7 | 105.7 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1123.6 | 112.4 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1009.7 | 101.0 |

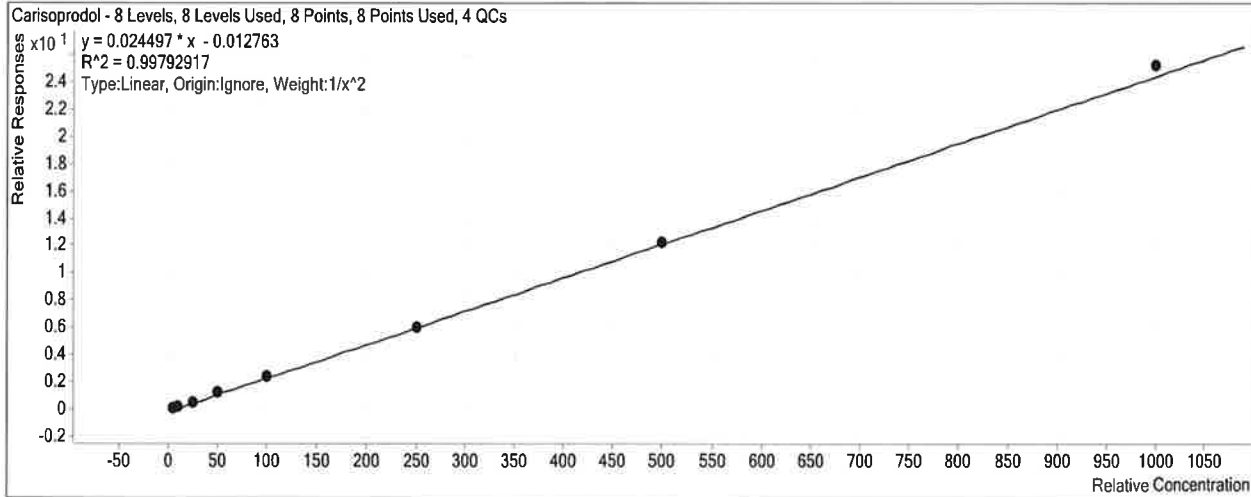
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ
121318.batch.bin

Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Carisoprodol
Internal Standard Carisoprodol-D7



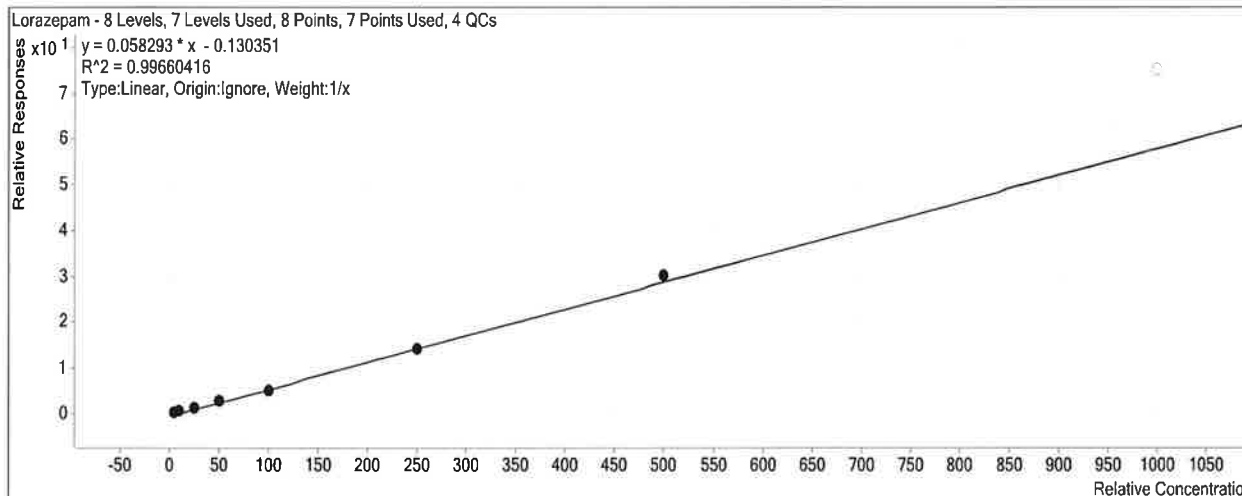
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.2 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.6 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.8 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.2 | 92.8 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 51.7 | 103.5 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 102.5 | 102.5 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 115.7 | 115.7 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 247.6 | 99.0 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 255.9 | 102.4 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 501.4 | 100.3 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1031.3 | 103.1 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1029.7 | 103.0 |

ISP Forensics Calibration Curve Report

B

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Lorazepam
Internal Standard Clonazepam-D4



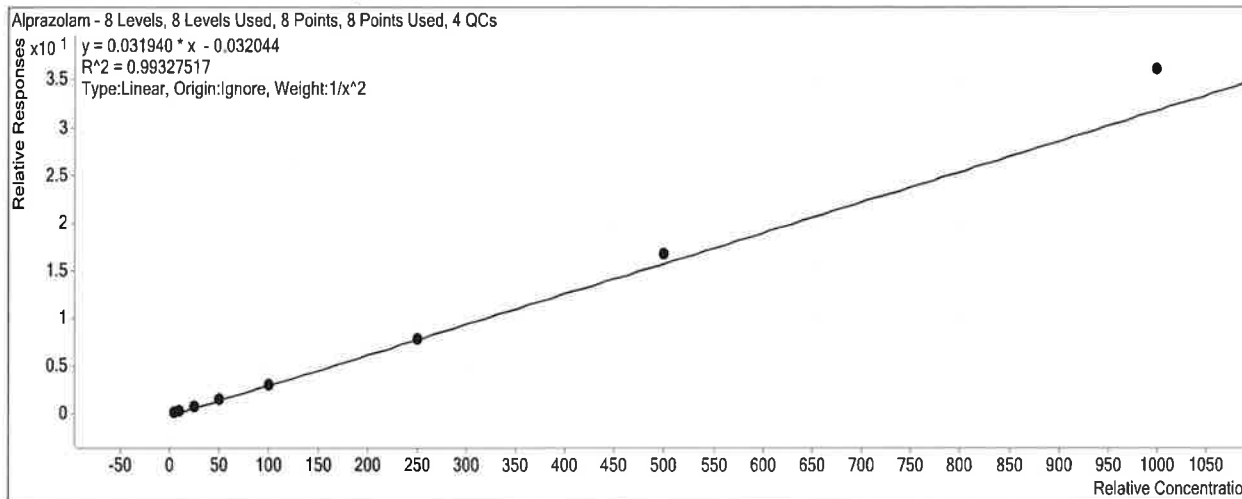
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.9 | 118.8 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 100.5 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.7 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.1 | 88.3 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 51.5 | 103.0 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 88.1 | 88.1 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 88.2 | 88.2 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 244.4 | 97.8 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 225.0 | 90.0 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 517.9 | 103.6 |
| a cal 8-1000ng.d | 8 | <input type="checkbox"/> | 1000 | 1293.7 | 129.4 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1004.1 | 100.4 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Last Calib Update 12/20/2018 8:37 AM **Analyst Name** ISP TOX

Target Compound Alprazolam
Internal Standard Alprazolam-D5



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng_reinject.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.1 |
| a cal 2-10ng_reinject.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 96.4 |
| a QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.5 |
| a cal 3-25ng_reinject.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.1 | 92.2 |
| a cal 4-50ng_reinject.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.2 | 94.4 |
| a cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 94.9 | 94.9 |
| a QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 96.0 | 96.0 |
| a cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 247.5 | 99.0 |
| a QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 250.6 | 100.2 |
| a cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 528.4 | 105.7 |
| a cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1133.0 | 113.3 |
| a QC 1000 (QC 4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1109.4 | 110.9 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

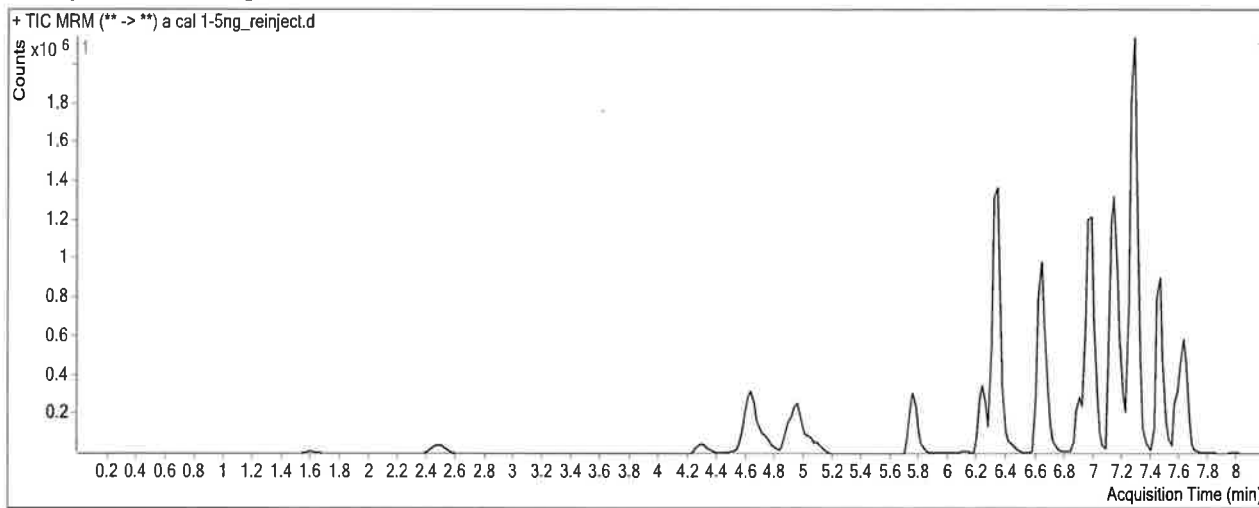
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 14:26 **Data File** a cal 1-5ng_reinject.d
Sample Type Calibration **Sample Name** a cal 1-5ng_reinject.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-H12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.608 | 9086 | 41139 | 0.2209 | 5.3376 |
| Hydromorphone | Hydromorphone-D6 | 2.510 | 31959 | 281204 | 0.1137 | 5.2676 |
| Codeine | Codeine-D6 | 4.334 | 13938 | 142781 | 0.0976 | 5.3374 |
| Oxycodone | Oxycodone-D6 | 4.671 | 125415 | 1054344 | 0.1190 | 6.0334 |
| Amphetamine | Amphetamine-D11 | 4.744 | 255469 | 738841 | 0.3458 | 4.9659 |
| Hydrocodone | Hydrocodone-D6 | 4.934 | 42865 | 613586 | 0.0699 | 5.2068 |
| Norhydrocodone | Norhydrocodone-D3 | 4.977 | 2600 | 187379 | 0.0139 | 14.1118 |
| Methamphetamine | Methamphetamine-D11 | 5.043 | 156352 | 824946 | 0.1895 | 5.2157 |
| 6-MAM | 6-MAM-D6 | 5.130 | 1284 | 159246 | 0.0081 | 0.8142 |
| Phentermine | Phentermine-D5 | 5.806 | 64594 | 1288525 | 0.0501 | 4.9545 |
| Dextroprphan | Dextroprphan-D3 | 6.246 | 71568 | 1195188 | 0.0599 | 5.1943 |
| Tramadol | Tramadol-13C-D3 | 6.344 | 393763 | 4451502 | 0.0885 | 4.7068 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 59522 | 546460 | 0.1089 | 5.0444 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 39193 | 4451502 | 0.0088 | 4.9558 |
| Doxylamine | Doxylamine-D5 | 6.665 | 237037 | 3418865 | 0.0693 | 5.1777 |
| Bupropion | Bupropion-D9 | 6.933 | 124069 | 886250 | 0.1400 | 5.1667 |
| Zolpidem | Zolpidem-D6 | 6.983 | 336657 | 4263610 | 0.0790 | 5.2158 |
| Meprobamate | Meprobamate-D7 | 7.035 | 20630 | 207090 | 0.0996 | 5.2087 |
| Venlafaxine | Venlafaxine-D6 | 7.129 | 422156 | 3537264 | 0.1193 | 5.8975 |
| Trazodone | Trazodone-D6 | 7.197 | 220936 | 1590387 | 0.1389 | 6.0368 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report *a cal 1-5ng-reinject*

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 214476 | 2072570 | 0.1035 | 5.2158 |
| Dextromethorphan | Dextromethorphan-D3 | 7.271 | 81152 | 722448 | 0.1123 | 5.2000 |
| Diphenhydramine | Diphenhydramine-D3 | 7.294 | 431917 | 4396334 | 0.0982 | 5.2798 |
| Promethazine | Promethazine-D3 | 7.470 | 333561 | 2452740 | 0.1360 | 5.2021 |
| Clonazepam | Clonazepam-D4 | 7.506 | 35061 | 65647 | 0.5341 | 5.0820 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 11686 | 115697 | 0.1010 | 5.3638 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 83505 | 735176 | 0.1136 | 5.1576 |
| Lorazepam | Clonazepam-D4 | 7.622 | 14177 | 65647 | 0.2160 | 5.9408 |
| Alprazolam | Alprazolam-D5 | 7.648 | 187677 | 1398981 | 0.1342 | 5.2035 |

* Calibrator was reinjected due to norhydrocodone peak cutting off. - TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

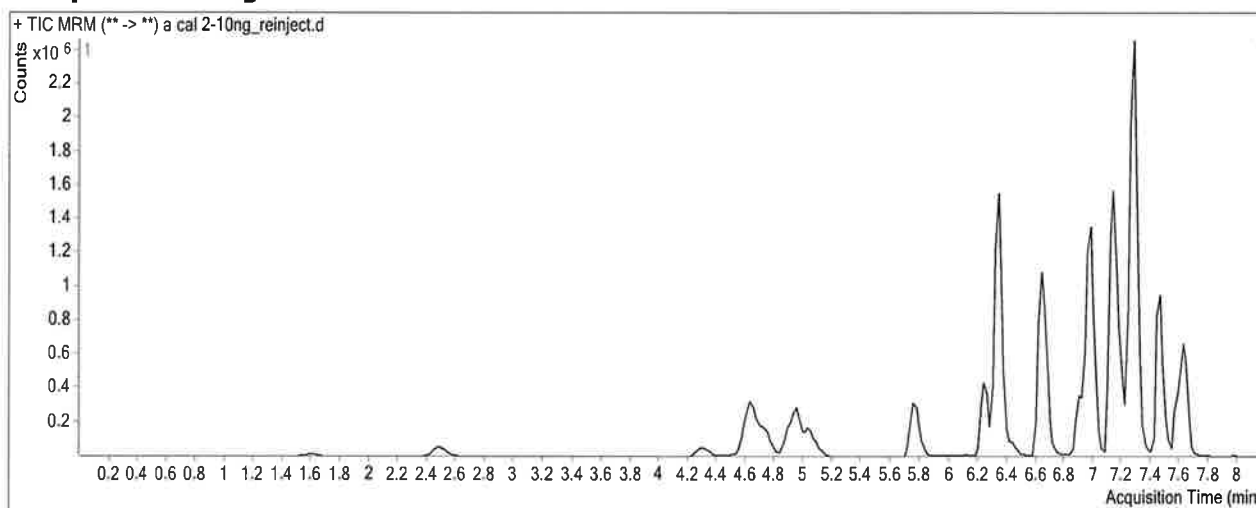
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 14:41 **Data File** a cal 2-10ng_reinject.d
Sample Type Calibration **Sample Name** a cal 2-10ng_reinject.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-G12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.628 | 17064 | 41675 | 0.4094 | 9.1658 |
| Hydromorphone | Hydromorphone-D6 | 2.510 | 64343 | 277135 | 0.2322 | 9.3992 |
| Codeine | Codeine-D6 | 4.354 | 26568 | 138928 | 0.1912 | 9.1536 |
| Oxycodone | Oxycodone-D6 | 4.691 | 258558 | 1031481 | 0.2507 | 10.2216 |
| Amphetamine | Amphetamine-D11 | 4.744 | 483909 | 756508 | 0.6397 | 9.9653 |
| Hydrocodone | Hydrocodone-D6 | 4.934 | 92317 | 609608 | 0.1514 | 9.7103 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 6434 | 184676 | 0.0348 | 18.0052 |
| Methamphetamine | Methamphetamine-D11 | 5.043 | 322457 | 869061 | 0.3710 | 9.7821 |
| 6-MAM | 6-MAM-D6 | 5.130 | 2953 | 154806 | 0.0191 | 1.3307 |
| Phentermine | Phentermine-D5 | 5.806 | 131056 | 1310872 | 0.1000 | 9.4222 |
| Dextrorphan | Dextrorphan-D3 | 6.246 | 156629 | 1304579 | 0.1201 | 9.4903 |
| Tramadol | Tramadol-13C-D3 | 6.344 | 802305 | 4483726 | 0.1789 | 9.6538 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 123008 | 526364 | 0.2337 | 9.8990 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 78184 | 4483726 | 0.0174 | 9.7197 |
| Doxylamine | Doxylamine-D5 | 6.665 | 481751 | 3423054 | 0.1407 | 9.5615 |
| Bupropion | Bupropion-D9 | 6.933 | 274686 | 882228 | 0.3114 | 9.9883 |
| Zolpidem | Zolpidem-D6 | 6.983 | 662624 | 4107303 | 0.1613 | 9.5612 |
| Meprobamate | Meprobamate-D7 | 7.035 | 46657 | 204293 | 0.2284 | 9.5047 |
| Venlafaxine | Venlafaxine-D6 | 7.129 | 886597 | 3662329 | 0.2421 | 10.0979 |
| Trazodone | Trazodone-D6 | 7.197 | 448996 | 1584126 | 0.2834 | 10.2935 |

TS

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

a cal 2-10ng_reinject

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 452922 | 2119119 | 0.2137 | 9.6539 |
| Dextromethorphan | Dextromethorphan-D3 | 7.271 | 156872 | 716388 | 0.2190 | 9.2736 |
| Diphenhydramine | Diphenhydramine-D3 | 7.294 | 888234 | 4314381 | 0.2059 | 9.8457 |
| Promethazine | Promethazine-D3 | 7.470 | 649315 | 2319770 | 0.2799 | 9.6096 |
| Clonazepam | Clonazepam-D4 | 7.506 | 69837 | 62784 | 1.1123 | 9.7489 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 20301 | 107619 | 0.1886 | 9.0359 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 154082 | 695676 | 0.2215 | 9.5621 |
| Lorazepam | Clonazepam-D4 | 7.622 | 28580 | 62784 | 0.4552 | 10.0452 |
| Alprazolam | Alprazolam-D5 | 7.648 | 364952 | 1323107 | 0.2758 | 9.6392 |

* Calibrator was reinjected due to norhydrocodone peak cutting off. -TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

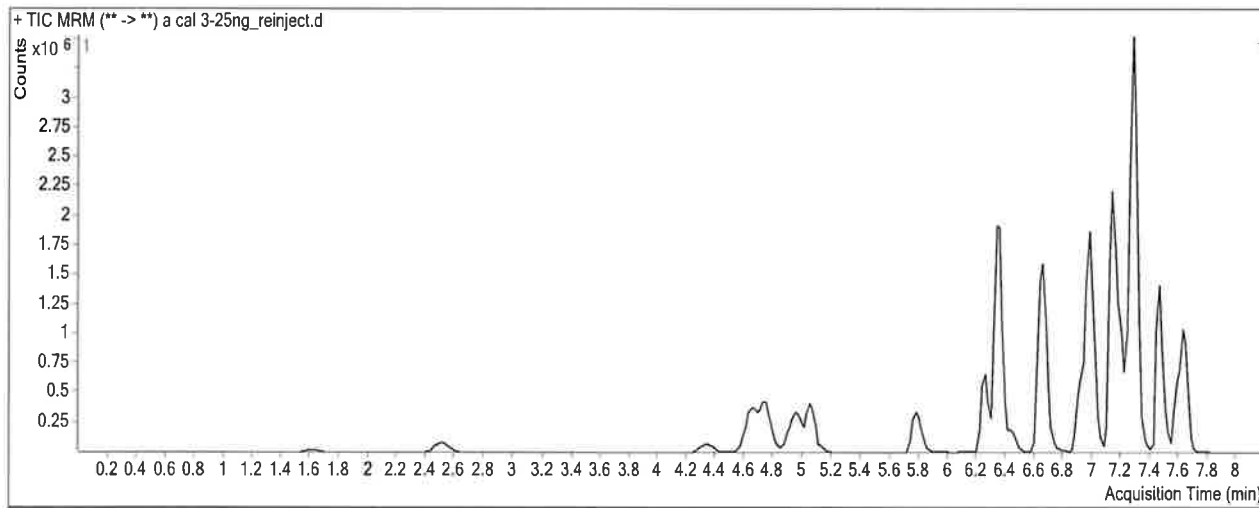
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 14:57 **Data File** a cal 3-25ng_reinject.d
Sample Type Calibration **Sample Name** a cal 3-25ng_reinject.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-F12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.628 | 46124 | 43784 | 1.0535 | 22.2383 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 178804 | 293470 | 0.6093 | 22.5448 |
| Codeine | Codeine-D6 | 4.354 | 73983 | 143909 | 0.5141 | 22.3144 |
| Oxycodone | Oxycodone-D6 | 4.691 | 696321 | 1078738 | 0.6455 | 22.7760 |
| Amphetamine | Amphetamine-D11 | 4.764 | 1232887 | 789682 | 1.5612 | 25.6424 |
| Hydrocodone | Hydrocodone-D6 | 4.954 | 272154 | 648279 | 0.4198 | 24.5257 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 15705 | 193718 | 0.0811 | 26.5918 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 766723 | 897005 | 0.8548 | 21.9512 |
| 6-MAM | 6-MAM-D6 | 5.150 | 7760 | 166067 | 0.0467 | 2.6278 |
| Phentermine | Phentermine-D5 | 5.826 | 369302 | 1379810 | 0.2676 | 24.4505 |
| Dextrorphan | Dextrorphan-D3 | 6.266 | 437152 | 1395792 | 0.3132 | 23.2771 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 2103115 | 4806967 | 0.4375 | 23.7913 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.377 | 337729 | 570815 | 0.5917 | 23.8270 |
| Metoprolol | Tramadol-13C-D3 | 6.464 | 229469 | 4806967 | 0.0477 | 26.4399 |
| Doxylamine | Doxylamine-D5 | 6.665 | 1330054 | 3596181 | 0.3699 | 23.6278 |
| Bupropion | Bupropion-D9 | 6.933 | 686429 | 917237 | 0.7484 | 22.2846 |
| Zolpidem | Zolpidem-D6 | 7.004 | 1792018 | 4308883 | 0.4159 | 22.9908 |
| Meprobamate | Meprobamate-D7 | 7.055 | 140886 | 209402 | 0.6728 | 24.3320 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 2341818 | 3807369 | 0.6151 | 22.8622 |
| Trazodone | Trazodone-D6 | 7.197 | 1137351 | 1631693 | 0.6970 | 22.4764 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

TS

a cal 3-25ng-reinject

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 1185534 | 2211227 | 0.5361 | 22.6328 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 443979 | 724621 | 0.6127 | 24.3126 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 2301336 | 4512213 | 0.5100 | 22.7482 |
| Promethazine | Promethazine-D3 | 7.470 | 1690813 | 2385369 | 0.7088 | 22.7461 |
| Clonazepam | Clonazepam-D4 | 7.506 | 188677 | 63735 | 2.9604 | 24.6629 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 58369 | 116900 | 0.4993 | 22.0526 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 410818 | 739166 | 0.5558 | 23.2085 |
| Lorazepam | Clonazepam-D4 | 7.622 | 73684 | 63735 | 1.1561 | 22.0687 |
| Alprazolam | Alprazolam-D5 | 7.648 | 973299 | 1382033 | 0.7043 | 23.0527 |

* Calibrator was re injected due to norhydrocodone peak cutting off. - TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

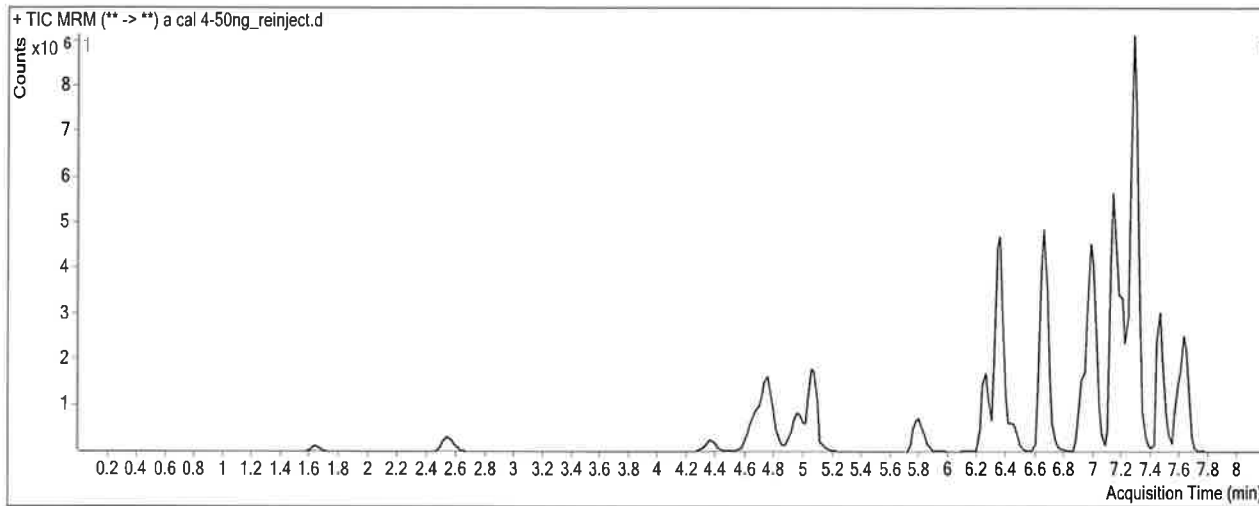
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wkst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:47 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-14 10:22 **Data File** a cal 4-50ng_reinject.d
Sample Type Calibration **Sample Name** a cal 4-50ng_reinject.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-E12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.648 | 173478 | 77504 | 2.2383 | 46.2894 |
| Hydromorphone | Hydromorphone-D6 | 2.550 | 700652 | 529126 | 1.3242 | 47.4657 |
| Codeine | Codeine-D6 | 4.374 | 288661 | 246777 | 1.1697 | 49.0395 |
| Oxycodone | Oxycodone-D6 | 4.711 | 2801834 | 1986379 | 1.4105 | 47.1018 |
| Amphetamine | Amphetamine-D11 | 4.764 | 4397998 | 1455795 | 3.0210 | 50.4749 |
| Hydrocodone | Hydrocodone-D6 | 4.954 | 986221 | 1139167 | 0.8657 | 49.1432 |
| Norhydrocodone | Norhydrocodone-D3 | 5.017 | 63333 | 334080 | 0.1896 | 46.7429 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 3306483 | 1863477 | 1.7744 | 45.0860 |
| 6-MAM | 6-MAM-D6 | 5.150 | 26288 | 291740 | 0.0901 | 4.6624 |
| Phentermine | Phentermine-D5 | 5.826 | 1467485 | 2572983 | 0.5703 | 51.5811 |
| Dextrophan | Dextrophan-D3 | 6.266 | 1662833 | 2428470 | 0.6847 | 49.7989 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 8086051 | 8750507 | 0.9241 | 50.3932 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.377 | 1114527 | 877762 | 1.2697 | 50.2098 |
| Metoprolol | Tramadol-13C-D3 | 6.464 | 853652 | 8750507 | 0.0976 | 53.9311 |
| Doxylamine | Doxylamine-D5 | 6.665 | 5117159 | 6678124 | 0.7663 | 47.9646 |
| Bupropion | Bupropion-D9 | 6.933 | 2272419 | 1477709 | 1.5378 | 44.4971 |
| Zolpidem | Zolpidem-D6 | 7.004 | 6686250 | 7795654 | 0.8577 | 46.2984 |
| Meprobamate | Meprobamate-D7 | 7.055 | 521300 | 395819 | 1.3170 | 45.8253 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 8864515 | 7073914 | 1.2531 | 44.6973 |
| Trazodone | Trazodone-D6 | 7.197 | 4224367 | 2715645 | 1.5556 | 47.7647 |

TS

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

a cal 4-50ng - reinject

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 4113239 | 3617422 | 1.1371 | 46.8232 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 1688523 | 1272706 | 1.3267 | 51.5856 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 9014454 | 8269953 | 1.0900 | 47.3529 |
| Promethazine | Promethazine-D3 | 7.470 | 5184491 | 3367773 | 1.5394 | 48.1853 |
| Clonazepam | Clonazepam-D4 | 7.506 | 602730 | 100699 | 5.9855 | 49.0765 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 216083 | 189210 | 1.1420 | 48.9825 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 1433803 | 1142763 | 1.2547 | 51.7379 |
| Lorazepam | Clonazepam-D4 | 7.622 | 289282 | 100699 | 2.8727 | 51.5173 |
| Alprazolam | Alprazolam-D5 | 7.648 | 3144515 | 2130527 | 1.4759 | 47.2134 |

* Calibrator was reinjected due to norhydrocodone peak cutting off. -TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

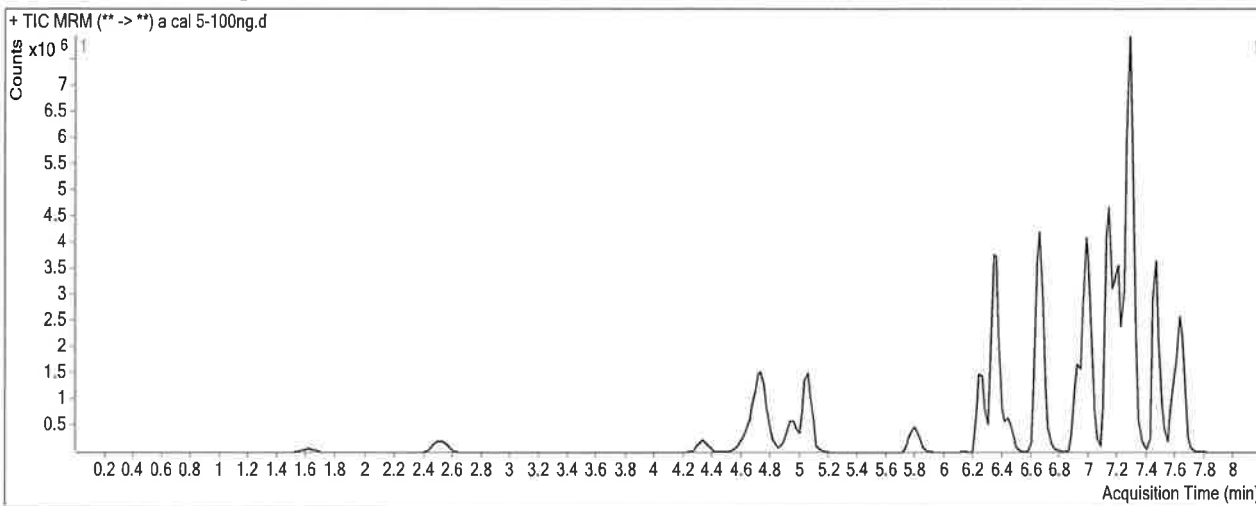
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 15:28 **Data File** a cal 5-100ng.d
Sample Type Calibration **Sample Name** a cal 5-100ng.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-D12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.628 | 191363 | 37725 | 5.0726 | 103.8208 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 758201 | 268283 | 2.8261 | 99.8232 |
| Codeine | Codeine-D6 | 4.334 | 302465 | 132972 | 2.2746 | 94.0791 |
| Oxycodone | Oxycodone-D6 | 4.691 | 2936871 | 1025175 | 2.8648 | 93.3421 |
| Amphetamine | Amphetamine-D11 | 4.744 | 4447172 | 713894 | 6.2295 | 105.0536 |
| Hydrocodone | Hydrocodone-D6 | 4.934 | 1088549 | 595855 | 1.8269 | 102.2022 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 71294 | 172948 | 0.4122 | 88.0942 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 3139728 | 771372 | 4.0703 | 102.8464 |
| 6-MAM | 6-MAM-D6 | 5.130 | 29443 | 155294 | 0.1896 | 9.3288 |
| Phentermine | Phentermine-D5 | 5.826 | 1423643 | 1230403 | 1.1571 | 104.1677 |
| Dextrophan | Dextrophan-D3 | 6.246 | 1795952 | 1290137 | 1.3921 | 100.2923 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 8457386 | 4519722 | 1.8712 | 102.1782 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 1313848 | 512649 | 2.5629 | 100.5232 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 890078 | 4519722 | 0.1969 | 108.7709 |
| Doxylamine | Doxylamine-D5 | 6.665 | 5469016 | 3398376 | 1.6093 | 99.7225 |
| Bupropion | Bupropion-D9 | 6.933 | 2596028 | 772519 | 3.3605 | 95.7821 |
| Zolpidem | Zolpidem-D6 | 6.983 | 7666645 | 4130095 | 1.8563 | 98.9805 |
| Meprobamate | Meprobamate-D7 | 7.035 | 565629 | 212084 | 2.6670 | 90.8654 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 9771289 | 3551493 | 2.7513 | 95.9678 |
| Trazodone | Trazodone-D6 | 7.197 | 4941562 | 1631640 | 3.0286 | 91.1530 |

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

TS

a cal 5-100ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Citalopram | Citalopram-D6 | 7.260 | 4535378 | 1927523 | 2.3530 | 95.7696 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 1842096 | 737541 | 2.4976 | 96.3100 |
| Diphenhydramine | Diphenhydramine-D3 | 7.294 | 9492117 | 4196374 | 2.2620 | 97.0693 |
| Promethazine | Promethazine-D3 | 7.470 | 7533222 | 2370944 | 3.1773 | 98.3482 |
| Clonazepam | Clonazepam-D4 | 7.506 | 771428 | 62880 | 12.2684 | 99.7813 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 245363 | 103138 | 2.3790 | 100.8103 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 1592529 | 637673 | 2.4974 | 102.4668 |
| Lorazepam | Clonazepam-D4 | 7.622 | 314599 | 62880 | 5.0032 | 88.0645 |
| Alprazolam | Alprazolam-D5 | 7.648 | 3753880 | 1251368 | 2.9998 | 94.9250 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

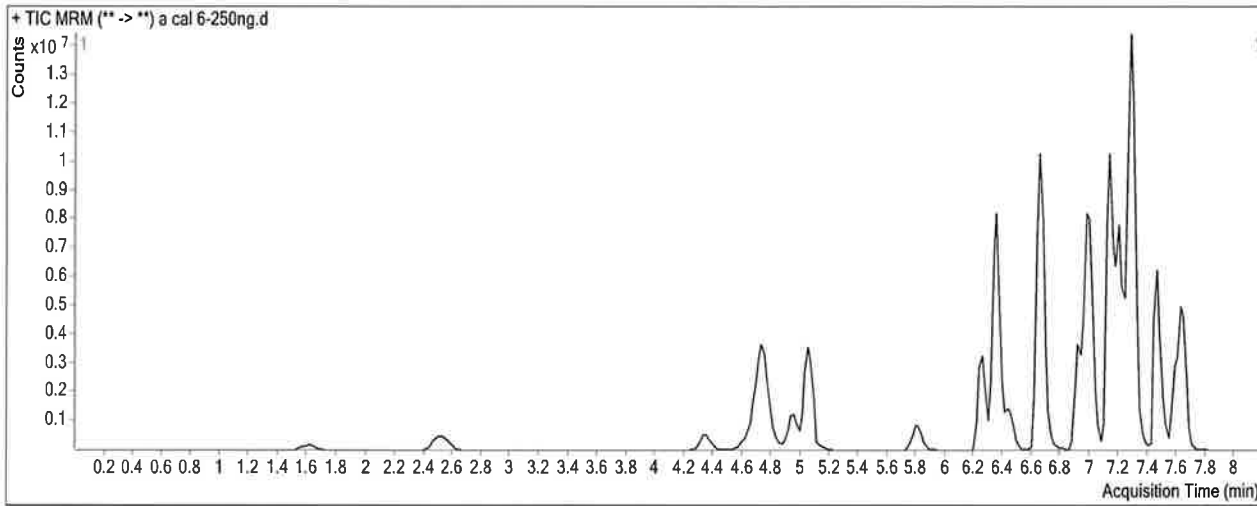
Multi-Drug Confirmatory Analysis Report

| | | | |
|--------------------------|---|----------------------|-----------|
| Batch Data Path | C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin | | |
| Analysis Time | 12/20/2018 8:37 AM | Analyst Name | ISPUser |
| Report Time | 12/20/2018 8:43 AM | Reporter Name | ISPUser |
| Last Calib Update | 12/20/2018 8:37 AM | Batch State | Processed |

Analysis Info

| | | | |
|--------------------|------------------|--------------------|-----------------------------|
| Acq Time | 2018-12-13 16:00 | Data File | a cal 6-250ng.d |
| Sample Type | Calibration | Sample Name | a cal 6-250ng.d |
| Dilution | 1 | Acq Method | MD Quant Panel 1a 7-11-18.m |
| Position | P1-C12 | Sample Info | |
| Inj Vol | -1 | Comment | AM 28 |

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.628 | 484050 | 37211 | 13.0081 | 264.9022 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 1924393 | 265374 | 7.2516 | 254.0934 |
| Codeine | Codeine-D6 | 4.354 | 750031 | 125302 | 5.9858 | 245.3551 |
| Oxycodone | Oxycodone-D6 | 4.691 | 7421135 | 987159 | 7.5177 | 241.2917 |
| Amphetamine | Amphetamine-D11 | 4.764 | 10276440 | 674783 | 15.2292 | 258.1496 |
| Hydrocodone | Hydrocodone-D6 | 4.954 | 2689061 | 600576 | 4.4775 | 248.5280 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 186084 | 155690 | 1.1952 | 233.5123 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 7004221 | 731096 | 9.5804 | 241.4670 |
| 6-MAM | 6-MAM-D6 | 5.150 | 75234 | 149627 | 0.5028 | 24.0195 |
| Phentermine | Phentermine-D5 | 5.826 | 3250372 | 1139552 | 2.8523 | 256.1141 |
| Dextrorphan | Dextrorphan-D3 | 6.266 | 4385951 | 1242476 | 3.5300 | 252.9099 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 21943978 | 4389902 | 4.9987 | 273.1734 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 2941705 | 447849 | 6.5685 | 256.3767 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 2030118 | 4389902 | 0.4625 | 255.2938 |
| Doxylamine | Doxylamine-D5 | 6.665 | 14132047 | 3350694 | 4.2176 | 259.8590 |
| Bupropion | Bupropion-D9 | 6.933 | 6559115 | 704285 | 9.3132 | 263.2744 |
| Zolpidem | Zolpidem-D6 | 7.004 | 19743784 | 3827524 | 5.1584 | 273.1854 |
| Meprobamate | Meprobamate-D7 | 7.055 | 1368908 | 184497 | 7.4197 | 249.4312 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 25333292 | 3347221 | 7.5685 | 260.8177 |
| Trazodone | Trazodone-D6 | 7.197 | 10621646 | 1305325 | 8.1372 | 241.6283 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

a cal 6-250ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Citalopram | Citalopram-D6 | 7.260 | 9710453 | 1545070 | 6.2848 | 254.0481 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 3730172 | 573171 | 6.5080 | 249.4912 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 21056165 | 3269179 | 6.4408 | 274.3428 |
| Promethazine | Promethazine-D3 | 7.470 | 14672809 | 1737117 | 8.4466 | 259.7317 |
| Clonazepam | Clonazepam-D4 | 7.506 | 1684777 | 52517 | 32.0805 | 259.6710 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 577046 | 99893 | 5.7766 | 243.1708 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 3324042 | 549197 | 6.0526 | 247.5901 |
| Lorazepam | Clonazepam-D4 | 7.622 | 741447 | 52517 | 14.1182 | 244.4293 |
| Alprazolam | Alprazolam-D5 | 7.648 | 8314726 | 1056020 | 7.8736 | 247.5202 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

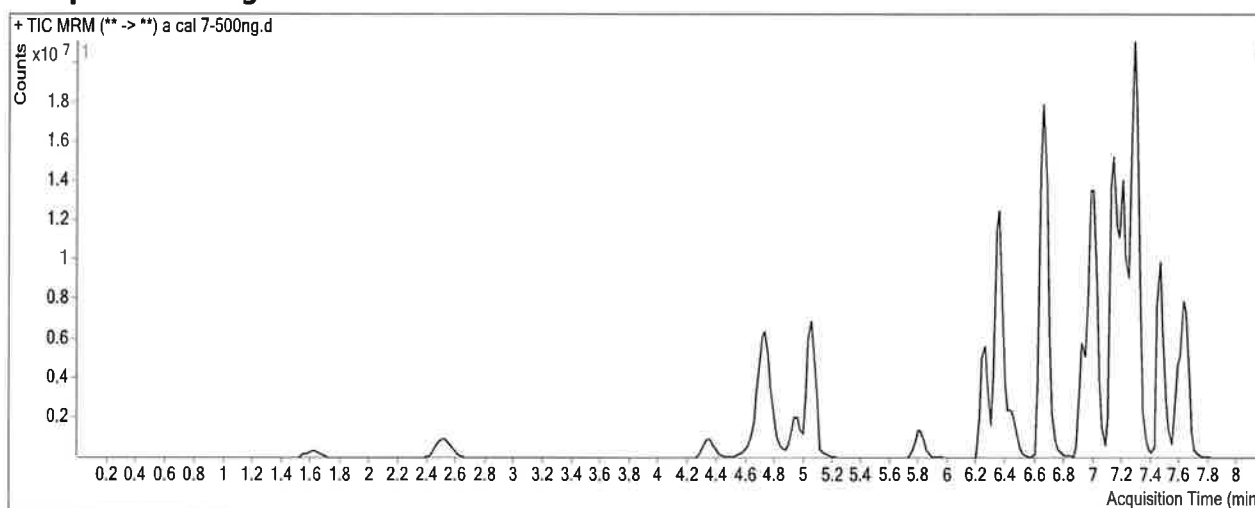
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 16:31 **Data File** a cal 7-500ng.d
Sample Type Calibration **Sample Name** a cal 7-500ng.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-B12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.628 | 965552 | 38579 | 25.0278 | 508.8859 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 3687637 | 243529 | 15.1425 | 529.1657 |
| Codeine | Codeine-D6 | 4.334 | 1368100 | 102293 | 13.3743 | 546.5317 |
| Oxycodone | Oxycodone-D6 | 4.691 | 14383728 | 918378 | 15.6621 | 500.2614 |
| Amphetamine | Amphetamine-D11 | 4.744 | 17482657 | 615141 | 28.4206 | 482.5481 |
| Hydrocodone | Hydrocodone-D6 | 4.954 | 4993021 | 545221 | 9.1578 | 506.9042 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 344071 | 127709 | 2.6942 | 511.9012 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 14402860 | 696332 | 20.6839 | 520.8019 |
| 6-MAM | 6-MAM-D6 | 5.150 | 150037 | 140415 | 1.0685 | 50.5534 |
| Phentermine | Phentermine-D5 | 5.826 | 5810502 | 1038824 | 5.5933 | 501.7909 |
| Dextroprphan | Dextroprphan-D3 | 6.266 | 7881878 | 1111107 | 7.0937 | 507.3055 |
| Tramadol | Tramadol-13C-D3 | 6.364 | 38752882 | 3899833 | 9.9371 | 543.1730 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 4815460 | 361514 | 13.3203 | 519.0763 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 3327708 | 3899833 | 0.8533 | 470.9744 |
| Doxylamine | Doxylamine-D5 | 6.665 | 27719723 | 3128873 | 8.8593 | 544.8301 |
| Bupropion | Bupropion-D9 | 6.933 | 9960950 | 545682 | 18.2541 | 514.8485 |
| Zolpidem | Zolpidem-D6 | 7.004 | 36438732 | 3465528 | 10.5146 | 555.7603 |
| Meprobamate | Meprobamate-D7 | 7.055 | 2525797 | 160157 | 15.7707 | 528.0504 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 42825257 | 2943774 | 14.5477 | 499.6596 |
| Trazodone | Trazodone-D6 | 7.197 | 18731719 | 1085462 | 17.2569 | 510.2541 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

TS

a cal 7-500ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 15214239 | 1147198 | 13.2621 | 534.9226 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 5876113 | 432910 | 13.5735 | 519.3725 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 33598190 | 2591672 | 12.9639 | 551.0640 |
| Promethazine | Promethazine-D3 | 7.470 | 24937922 | 1444122 | 17.2686 | 529.9200 |
| Clonazepam | Clonazepam-D4 | 7.506 | 2761287 | 44583 | 61.9358 | 500.6126 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 1034698 | 82170 | 12.5921 | 528.7372 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 5330467 | 434402 | 12.2708 | 501.4236 |
| Lorazepam | Clonazepam-D4 | 7.622 | 1340238 | 44583 | 30.0616 | 517.9342 |
| Alprazolam | Alprazolam-D5 | 7.648 | 14046170 | 833931 | 16.8433 | 528.3527 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

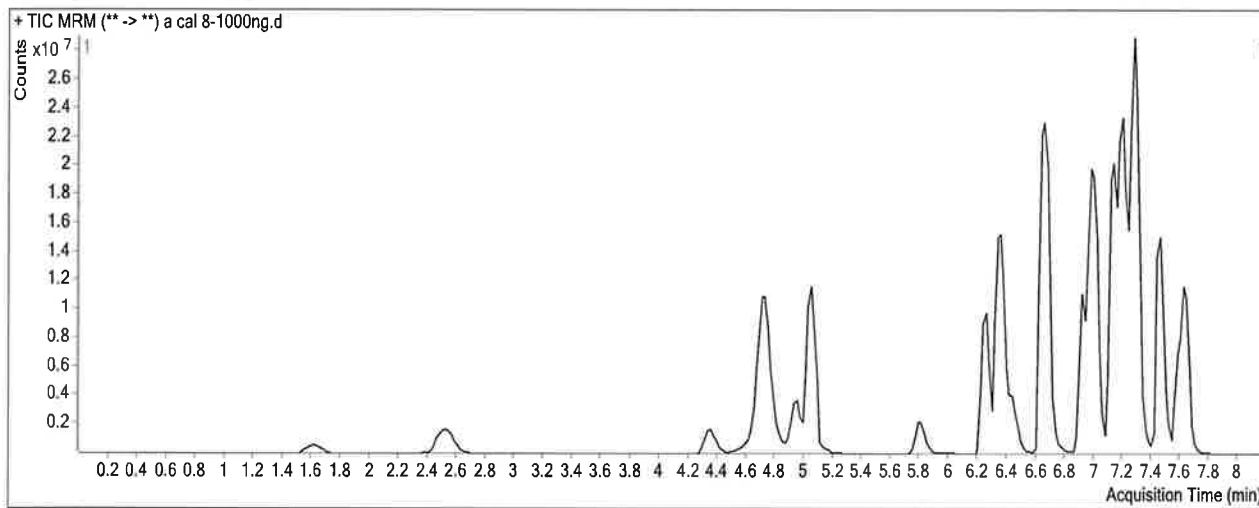
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1a MDQ 121318.batch.bin
Analysis Time 12/20/2018 8:37 AM **Analyst Name** ISPUser
Report Time 12/20/2018 8:43 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 8:37 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 17:03 **Data File** a cal 8-1000ng.d
Sample Type Calibration **Sample Name** a cal 8-1000ng.d
Dilution 1 **Acq Method** MD Quant Panel 1a 7-11-18.m
Position P1-A12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine | Morphine-D6 | 1.628 | 1735220 | 32489 | 53.4093 | 1084.9924 |
| Hydromorphone | Hydromorphone-D6 | 2.530 | 6796509 | 219126 | 31.0164 | 1082.5217 |
| Codeine | Codeine-D6 | 4.354 | 2389066 | 86399 | 27.6517 | 1128.5173 |
| Oxycodone | Oxycodone-D6 | 4.691 | 28142198 | 880126 | 31.9752 | 1018.9719 |
| Amphetamine | Amphetamine-D11 | 4.744 | 28760377 | 527330 | 54.5397 | 926.8613 |
| Hydrocodone | Hydrocodone-D6 | 4.954 | 9279517 | 516182 | 17.9772 | 993.7796 |
| Norhydrocodone | Norhydrocodone-D3 | 4.997 | 651291 | 105077 | 6.1982 | 1162.6751 |
| Methamphetamine | Methamphetamine-D11 | 5.063 | 26764175 | 579200 | 46.2089 | 1162.9448 |
| 6-MAM | 6-MAM-D6 | 5.150 | 294667 | 124815 | 2.3608 | 111.1675 |
| Phentermine | Phentermine-D5 | 5.826 | 9963922 | 904772 | 11.0126 | 987.5191 |
| Dextrophan | Dextrophan-D3 | 6.266 | 14257617 | 964771 | 14.7782 | 1055.8656 |
| Tramadol | Tramadol-13C-D3 | 6.344 | 57622337 | 3376487 | 17.0658 | 932.9304 |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.357 | 6687051 | 267062 | 25.0393 | 975.0436 |
| Metoprolol | Tramadol-13C-D3 | 6.444 | 5199164 | 3376487 | 1.5398 | 849.8191 |
| Doxylamine | Doxylamine-D5 | 6.665 | 46931776 | 2950174 | 15.9081 | 977.5839 |
| Bupropion | Bupropion-D9 | 6.933 | 19728452 | 484950 | 40.6814 | 1145.8919 |
| Zolpidem | Zolpidem-D6 | 7.004 | 56536942 | 3106900 | 18.1972 | 961.0636 |
| Meprobamate | Meprobamate-D7 | 7.055 | 4404455 | 127377 | 34.5782 | 1155.5336 |
| Venlafaxine | Venlafaxine-D6 | 7.149 | 60413196 | 2544857 | 23.7393 | 814.2103 |
| Trazodone | Trazodone-D6 | 7.197 | 34580838 | 1010059 | 34.2365 | 1010.3933 |

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

TS

a cal 8-1000ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Citalopram | Citalopram-D6 | 7.260 | 22193291 | 808588 | 27.4470 | 1105.9435 |
| Dextromethorphan | Dextromethorphan-D3 | 7.291 | 9829659 | 365339 | 26.9056 | 1028.6109 |
| Diphenhydramine | Diphenhydramine-D3 | 7.315 | 49900298 | 2273296 | 21.9506 | 932.2973 |
| Promethazine | Promethazine-D3 | 7.470 | 41550089 | 1221507 | 34.0154 | 1042.8250 |
| Clonazepam | Clonazepam-D4 | 7.506 | 3842528 | 30943 | 124.1793 | 1002.9374 |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.581 | 1716110 | 64058 | 26.7901 | 1123.6274 |
| Carisoprodol | Carisoprodol-D7 | 7.595 | 7619956 | 301767 | 25.2511 | 1031.2872 |
| Lorazepam | Clonazepam-D4 | 7.623 | 2329467 | 30943 | 75.2816 | 1293.6704 |
| Alprazolam | Alprazolam-D5 | 7.648 | 21576899 | 596797 | 36.1545 | 1132.9694 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

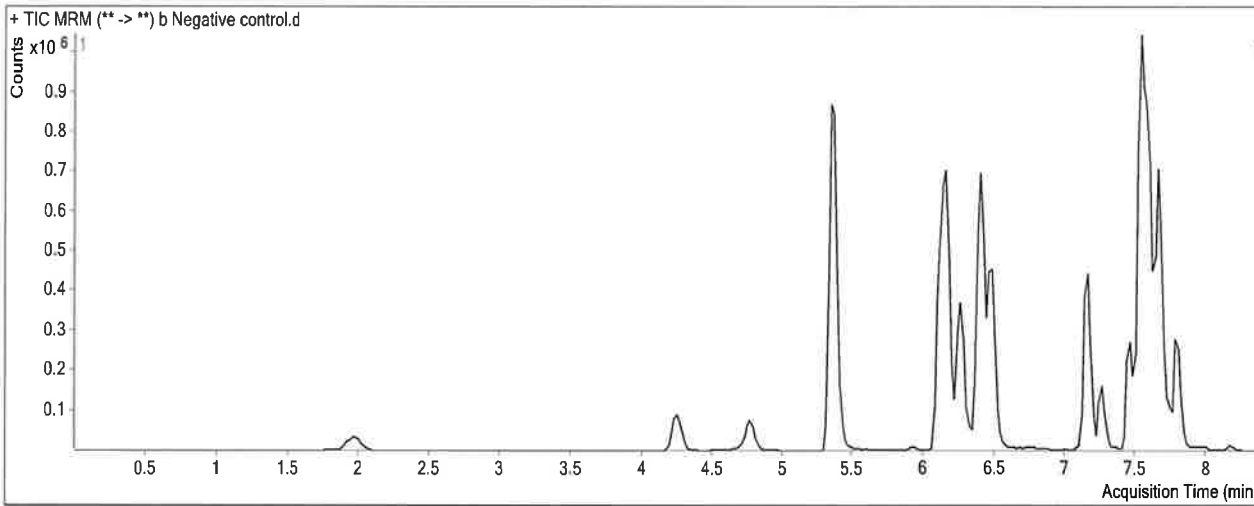
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:12 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 18:22 **Data File** b Negative control.d
Sample Type Sample **Sample Name** b Negative control.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-D11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-----------------|--------------------|-------|----------|-----------|------------|----------------|
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.532 | 22023 | 628720 | 0.0350 | 2.9390 <5 - TS |

TS

ISP FORENSICS - Pocatello Instrument # 59740

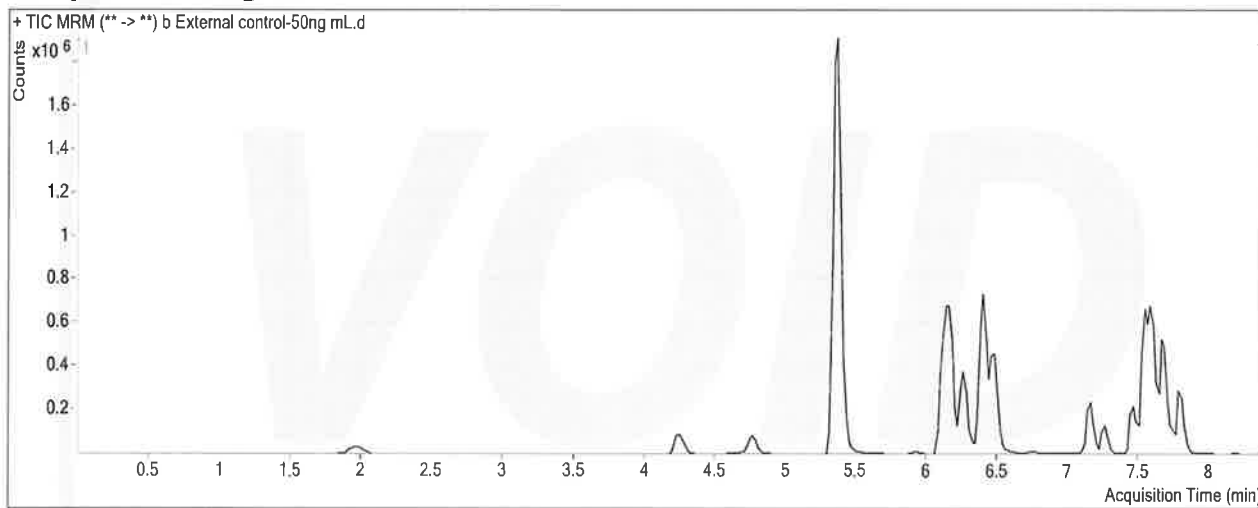
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:12 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 18:54 **Data File** b External control-50ng mL.d
Sample Type Sample **Sample Name** b External control-50ng mL.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-C11 **Sample Info**
Inj Vol -1 **Comment** AM 28; WS121218 50ng Fluoxetine, Amphetamine, Alprazolam, O-desme

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.375 | 3961187 | 3750409 | 1.0562 | 45.8388 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 32468 | 1650392 | 0.0197 | 1.1294 |
| Fentanyl | Fentanyl-D5 | 7.159 | 4898 | 803482 | 0.0061 | 0.4856 |
| Quetiapine | Quetiapine-D8 | 7.458 | 55515 | 647485 | 0.0857 | 1.3732 |
| Methadone | Methadone-D9 | 7.540 | 105932 | 1859047 | 0.0570 | 2.5995 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 874729 | 711155 | 1.2300 | 46.9483 |

* External control was re-injected due to carryover from 1000ng calibrator - TS in the initial injection.

TS

ISP FORENSICS - Pocatello Instrument # 59740

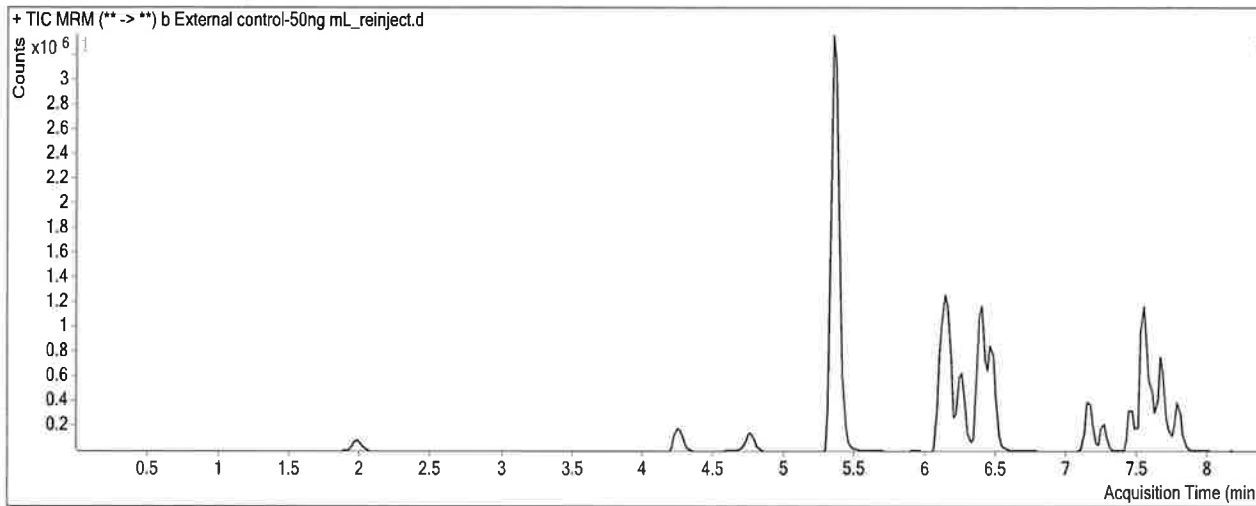
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:14 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-14 11:56 **Data File** b External control-50ng mL_reinject.d
Sample Type Sample **Sample Name** b External control-50ng mL_reinject.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-C11 **Sample Info**
Inj Vol -1 **Comment** AM 28; WS121218 50ng Fluoxetine, Amphetamine, Alprazolam, O-desme

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-----------------------------|-------------------------|-------|----------|-----------|------------|----------------|
| <u>O-desmethyl-tramadol</u> | O-desmethyl-tramadol-D6 | 5.374 | 6894354 | 6676529 | 1.0326 | <u>44.8343</u> |
| <u>Fluoxetine</u> | Fluoxetine-D6 | 7.582 | 563412 | 513596 | 1.0970 | <u>41.9578</u> |

External control was re-injected due to carryover from the 1000 calibrator in the initial injection.

TS

TS

ISP FORENSICS - Pocatello Instrument # 59740

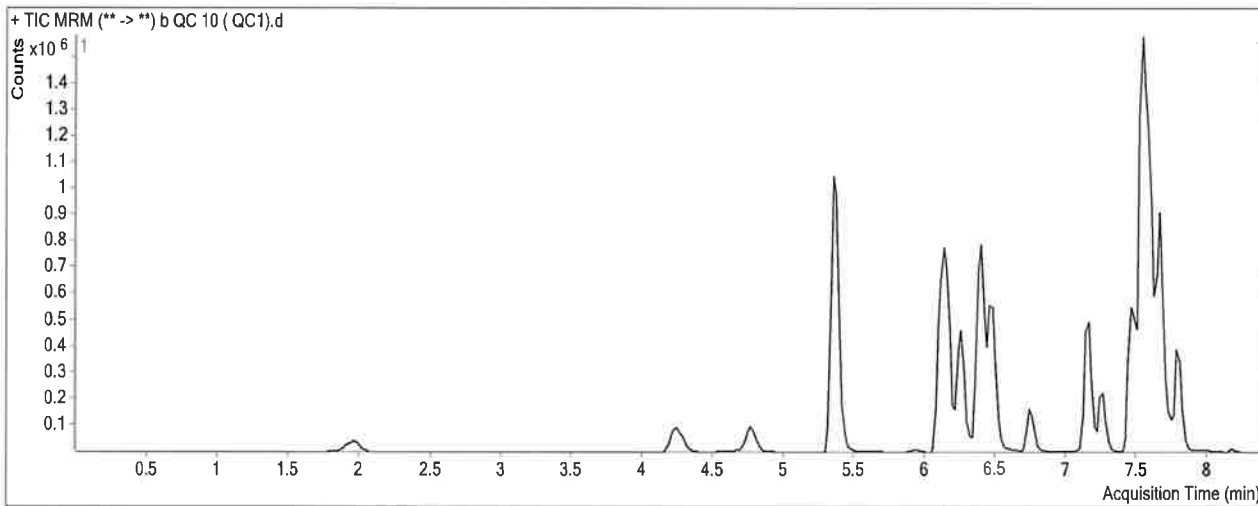
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:12 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 19:57 **Data File** b QC 10 (QC1).d
Sample Type QC **Sample Name** b QC 10 (QC1).d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-H11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-----------------------------|--------------------------------|------------------|------------------|--------------------|-------------------|---|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 61050 | 262793 | 0.2323 | 9.1103 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 74048 | 430496 | 0.1720 | 9.9785 Not evaluated. TS |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 98341 | 382694 | 0.2570 | 9.5532 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.374 | 738693 | 3421025 | 0.2159 | 10.0392 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.932 | 4977 | 32061 | 0.1552 | 11.0968 |
| Ketamine | Ketamine-D4 | 6.123 | 409119 | 1690337 | 0.2420 | 9.8551 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 32904 | 2016872 | 0.0163 | 1.5023 outside curve range. TS |
| Cocaine | Cocaine-d3 | 6.396 | 179454 | 2436538 | 0.0737 | 9.9313 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 302167 | 1618213 | 0.1867 | 9.5917 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 353005 | 1618213 | 0.2181 | 10.3244 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.115 | 1247 | 39869 | 0.0313 | 2.1842 outside curve range. - TS |
| Fentanyl | Fentanyl-D5 | 7.159 | 28040 | 1647684 | 0.0170 | 1.0497 |
| Mitragynine | EDDP-D3 | 7.236 | 136329 | 458293 | 0.2975 | 8.4850 |
| EDDP | EDDP-D3 | 7.269 | 81249 | 458293 | 0.1773 | 9.4479 |
| Quetiapine | Quetiapine-D8 | 7.478 | 767864 | 820525 | 0.9358 | 10.8479 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.532 | 183172 | 763323 | 0.2400 | 10.4297 |
| Methadone | Methadone-D9 | 7.540 | 960481 | 3210573 | 0.2992 | 10.5562 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 609121 | 2264380 | 0.2690 | 10.8937 |
| Sertraline | Sertraline-D3 | 7.645 | 195494 | 1031973 | 0.1894 | 9.8297 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report b QC 10 (QC1)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|--------------------------|-----------------------------|------------------|------------------|-------------------|-------------------|--|
| Oxazepam | Oxazepam-D5 | 7.629 | 19045 | 144793 | 0.1315 | 10.0191 |
| Buprenorphine | Buprenorphine-D4 | 7.677 | 14640 | 326164 | 0.0449 | 0.9299 Peak cut off - TS |
| Temazepam | Temazepam-D5 | 7.687 | 224963 | 1151016 | 0.1954 | 10.0166 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 72205 | 203617 | 0.3546 | 10.2974 |
| Diazepam | Diazepam-D5 | 7.791 | 172621 | 731685 | 0.2359 | 10.9240 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

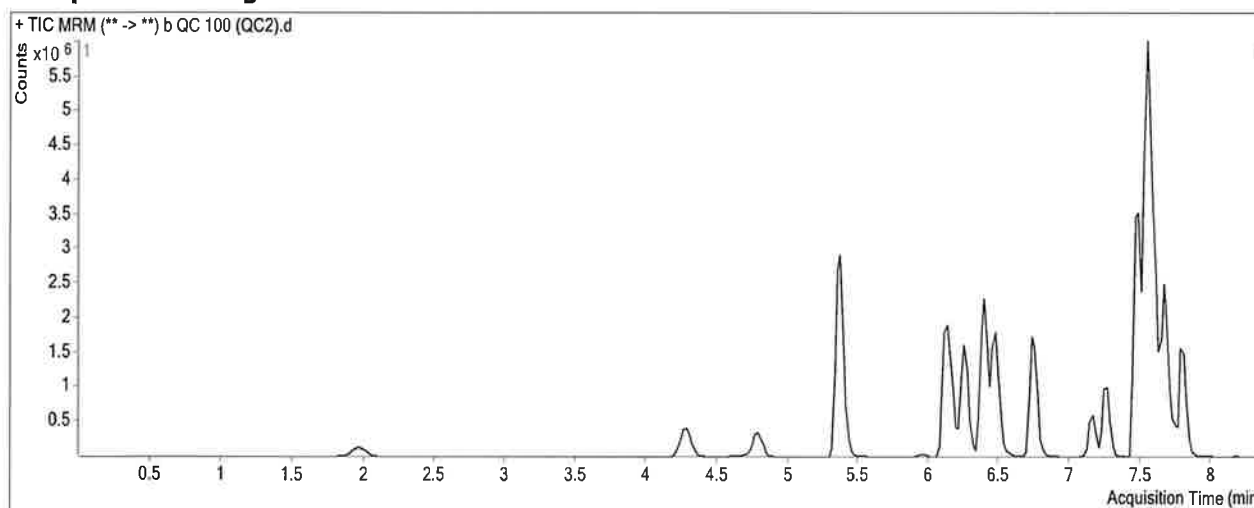
TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:13 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 22:18 **Data File** b QC 100 (QC2).d
Sample Type QC **Sample Name** b QC 100 (QC2).d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-G11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------------|------------------------------|------------------|-------------------|-------------------|-------------------|--|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 701332 | 258703 | 2.7110 | 92.9345 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 862842 | 434612 | 1.9853 | 109.1467 <i>Not evaluated</i> |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 1127257 | 375386 | 3.0029 | 98.2764 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.375 | 8141331 | 3453471 | 2.3574 | 101.2773 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 57984 | 33235 | 1.7447 | 110.6900 |
| Ketamine | Ketamine-D4 | 6.123 | 4527635 | 1722124 | 2.6291 | 97.4771 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 430687 | 2074360 | 0.2076 | 9.1869 |
| Cocaine | Cocaine-d3 | 6.396 | 1791747 | 2415402 | 0.7418 | 90.0850 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 3091099 | 1633231 | 1.8926 | 96.0051 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 3919581 | 1633231 | 2.3999 | 102.6793 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.095 | 7008 | 40849 | 0.1715 | 9.7147 |
| Fentanyl | Fentanyl-D5 | 7.159 | 277880 | 1633362 | 0.1701 | 8.9587 |
| Mitragynine | EDDP-D3 | 7.236 | 1464341 | 439610 | 3.3310 | 93.5478 |
| EDDP | EDDP-D3 | 7.269 | 902331 | 439610 | 2.0526 | 92.5295 |
| Quetiapine | Quetiapine-D8 | 7.478 | 8070627 | 888351 | 9.0850 | 101.6746 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.532 | 1932985 | 708629 | 2.7278 | 101.3605 |
| Methadone | Methadone-D9 | 7.540 | 10089237 | 3301753 | 3.0557 | 101.1217 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 5074786 | 2003952 | 2.5324 | 95.8101 |
| Sertraline | Sertraline-D3 | 7.645 | 1464488 | 780656 | 1.8760 | 89.6270 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report b QC 100 (QC2)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 243199 | 151807 | 1.6020 | 88.4786 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 157010 | 292294 | 0.5372 | 10.0877 |
| Temazepam | Temazepam-D5 | 7.687 | 2342323 | 1156801 | 2.0248 | 93.0884 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 760189 | 196683 | 3.8650 | 101.1586 |
| Diazepam | Diazepam-D5 | 7.811 | 1771336 | 712878 | 2.4848 | 90.3368 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

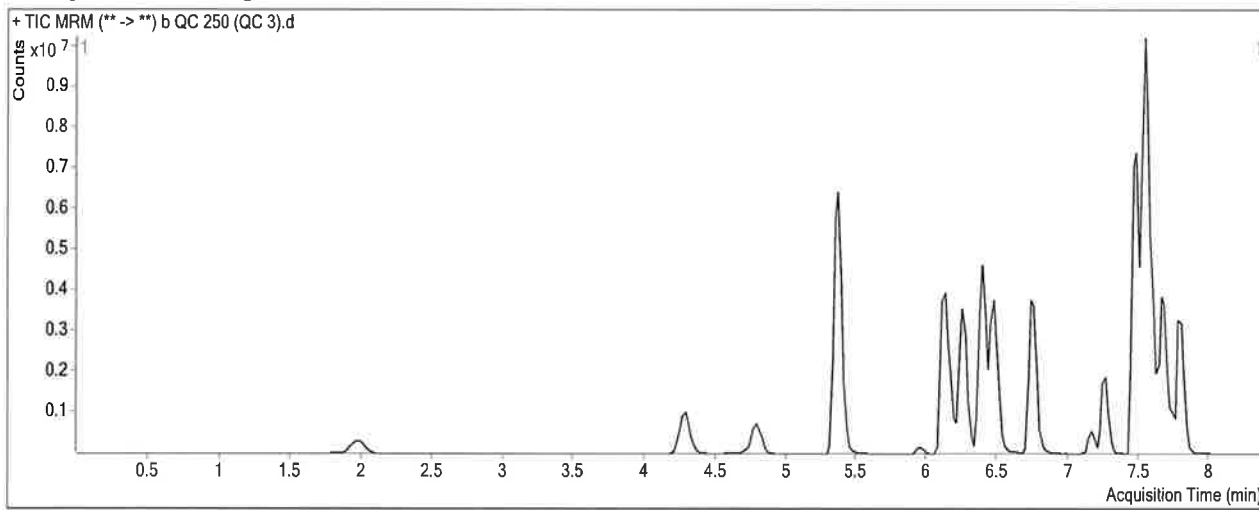
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:13 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-14 00:55 **Data File** b QC 250 (QC 3).d
Sample Type QC **Sample Name** b QC 250 (QC 3).d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-F11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------------|-------------------------------|------------------|--------------------|-------------------|-------------------|--|
| Oxymorphone | Oxymorphone-D3 | 1.989 | 1878814 | 268355 | 7.0012 | 238.0256 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 2183917 | 440092 | 4.9624 | 271.9610 <i>Not evaluated.</i> |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 2707128 | 351206 | 7.7081 | 250.3028 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.375 | 22008730 | 3393780 | 6.4850 | 277.1318 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 221728 | 32598 | 6.8019 | 427.5700 <i>outside curve range. TS</i> |
| Ketamine | Ketamine-D4 | 6.143 | 11696400 | 1667102 | 7.0160 | 258.5073 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 1132358 | 2040309 | 0.5550 | 23.1404 |
| Cocaine | Cocaine-d3 | 6.396 | 4456621 | 2325050 | 1.9168 | 231.0403 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 7667711 | 1561845 | 4.9094 | 248.8212 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 8742434 | 1561845 | 5.5975 | 238.0363 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.115 | 15361 | 34241 | 0.4486 | 24.5885 |
| Fentanyl | Fentanyl-D5 | 7.159 | 479238 | 1109863 | 0.4318 | 22.4754 |
| Mitragynine | EDDP-D3 | 7.236 | 2470791 | 381884 | 6.4700 | 181.5684 |
| EDDP | EDDP-D3 | 7.269 | 2141669 | 381884 | 5.6082 | 250.0551 |
| Quetiapine | Quetiapine-D8 | 7.478 | 17398246 | 725356 | 23.9858 | 267.7530 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.532 | 3066008 | 441104 | 6.9508 | 255.7127 |
| Methadone | Methadone-D9 | 7.540 | 19433735 | 2373884 | 8.1865 | 269.6900 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 7490427 | 1139171 | 6.5753 | 247.4907 |
| Sertraline | Sertraline-D3 | 7.665 | 2126885 | 432570 | 4.9169 | 233.5050 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report b QC 250 (QC3)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 593875 | 134097 | 4.4287 | 239.2973 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 276100 | 211396 | 1.3061 | 24.3918 |
| Temazepam | Temazepam-D5 | 7.687 | 5797773 | 1094223 | 5.2985 | 241.7467 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 1818865 | 181971 | 9.9953 | 259.8302 |
| Diazepam | Diazepam-D5 | 7.811 | 4289651 | 645903 | 6.6413 | 237.1161 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

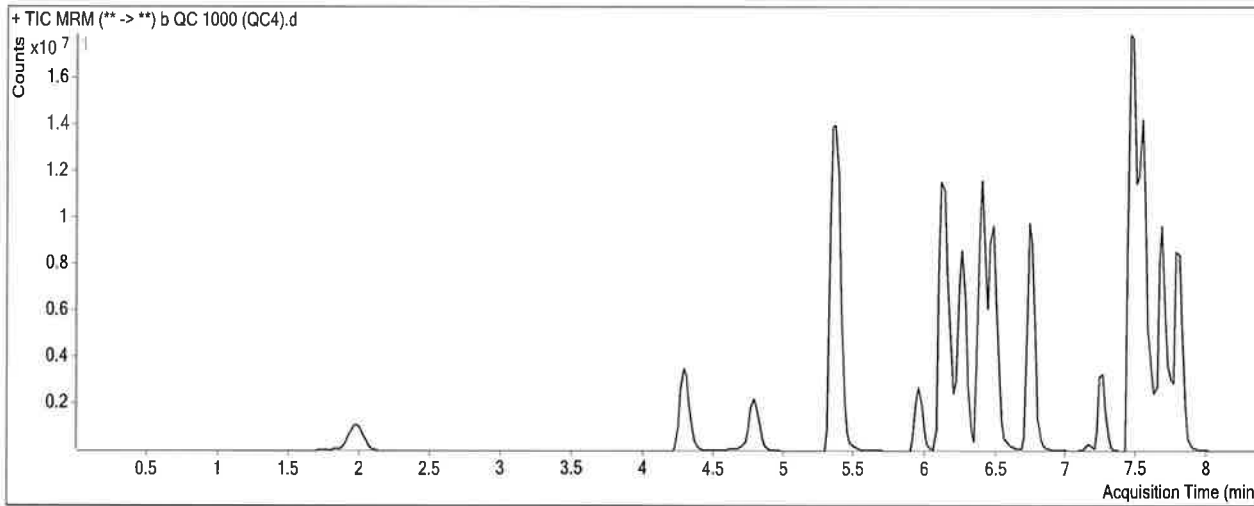
TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:13 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-14 03:33 **Data File** b QC 1000 (QC4).d
Sample Type QC **Sample Name** b QC 1000 (QC4).d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-E11 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|--|
| Oxymorphone | Oxymorphone-D3 | 1.989 | 7074289 | 237387 | 29.8007 | 1009.0724 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 7416856 | 414553 | 17.8912 | 979.0247 <i>Not evaluated.</i> |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 8444243 | 259565 | 32.5323 | 1052.3839 <i>TS</i> |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.375 | 66507429 | 2907857 | 22.8716 | 975.2779 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 3366134 | 33476 | 100.5545 | 6302.0390 <i>outside curve range. TS</i> |
| Ketamine | Ketamine-D4 | 6.123 | 41911127 | 1473815 | 28.4372 | 1044.8136 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 4207760 | 1650138 | 2.5499 | 103.2751 |
| Cocaine | Cocaine-d3 | 6.396 | 12370326 | 1500886 | 8.2420 | 989.8380 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 22569309 | 1066887 | 21.1544 | 1071.7202 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 22572654 | 1066887 | 21.1575 | 896.7011 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.095 | 17002 | 7397 | 2.2985 | 123.8917 |
| Fentanyl | Fentanyl-D5 | 7.159 | 516821 | 265429 | 1.9471 | 100.7493 |
| Mitragynine | EDDP-D3 | 7.236 | 2530759 | 245699 | 10.3003 | 288.9716 |
| EDDP | EDDP-D3 | 7.269 | 5727692 | 245699 | 23.3119 | 1034.3898 |
| Quetiapine | Quetiapine-D8 | 7.458 | 45464840 | 558893 | 81.3481 | 907.0887 <i>outside curve range. TS</i> |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.513 | 3261895 | 112077 | 29.1040 | 1065.4242 |
| Methadone | Methadone-D9 | 7.540 | 28464700 | 854148 | 33.3253 | 1095.6131 <i>outside curve range. - TS</i> |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 6093004 | 242435 | 25.1325 | 943.7064 |
| Sertraline | Sertraline-D3 | 7.665 | 1609201 | 77607 | 20.7353 | 981.9470 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report b QC 1000 (QC4)

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 2511529 | 118479 | 21.1981 | 1134.0379 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 205834 | 34646 | 5.9411 | 110.6172 |
| Temazepam | Temazepam-D5 | 7.687 | 20882756 | 869800 | 24.0087 | 1091.3709 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 5661627 | 137716 | 41.1108 | 1065.1966 |
| Diazepam | Diazepam-D5 | 7.811 | 12654513 | 424936 | 29.7798 | 1054.2002 |

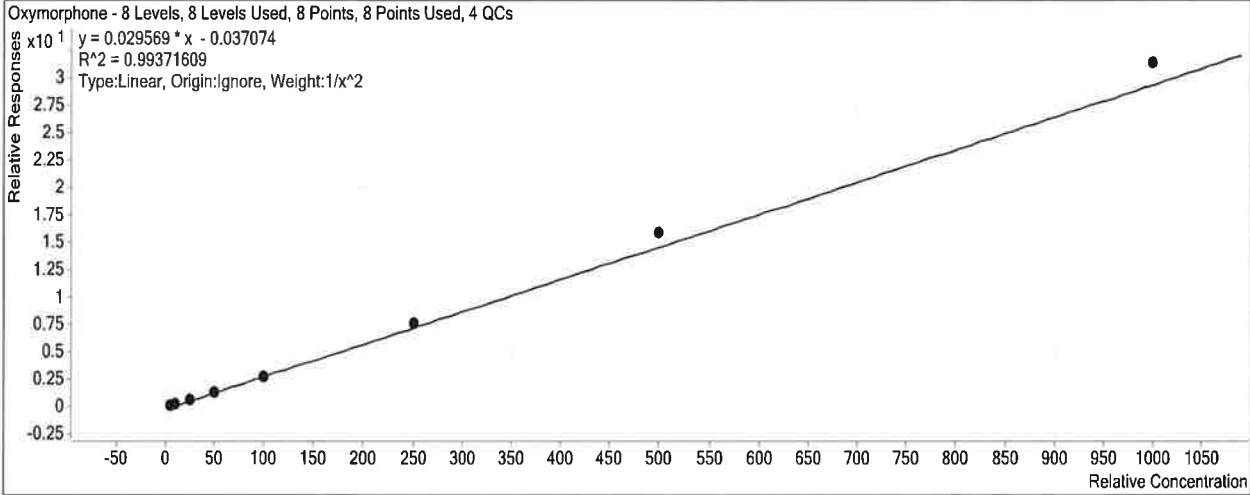
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Oxymorphone
Internal Standard Oxymorphone-D3



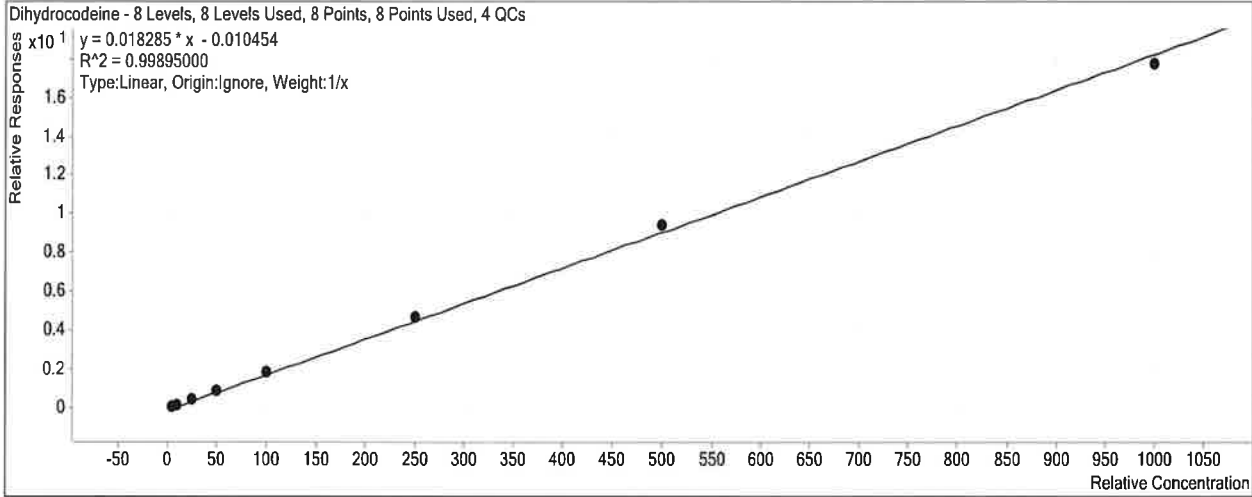
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.3 | 105.8 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.3 | 93.2 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.1 | 91.1 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.4 | 89.5 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.0 | 95.9 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 97.2 | 97.2 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 92.9 | 92.9 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 259.3 | 103.7 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 238.0 | 95.2 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 539.2 | 107.8 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1066.7 | 106.7 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1009.1 | 100.9 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Dihydrocodeine
Internal Standard Dihydrocodeine-D6



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 4.9 | 97.4 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.5 | 95.4 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 99.8 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.1 | 96.5 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 51.6 | 103.1 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 104.5 | 104.5 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 109.1 | 109.1 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 256.0 | 102.4 |
| b QC 250 (QC3).d | 6 | <input checked="" type="checkbox"/> | 250 | 272.0 | 108.8 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 517.6 | 103.5 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 971.8 | 97.2 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 979.0 | 97.9 |

*Compound not evaluated. - TS

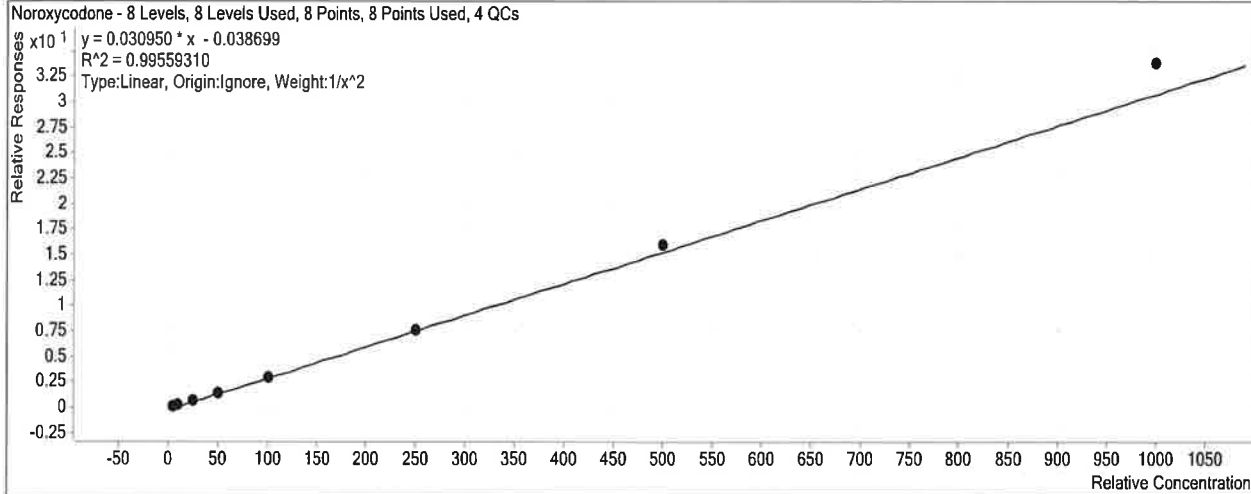
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Noroxycodone*
Internal Standard *Noroxycodone-D3*



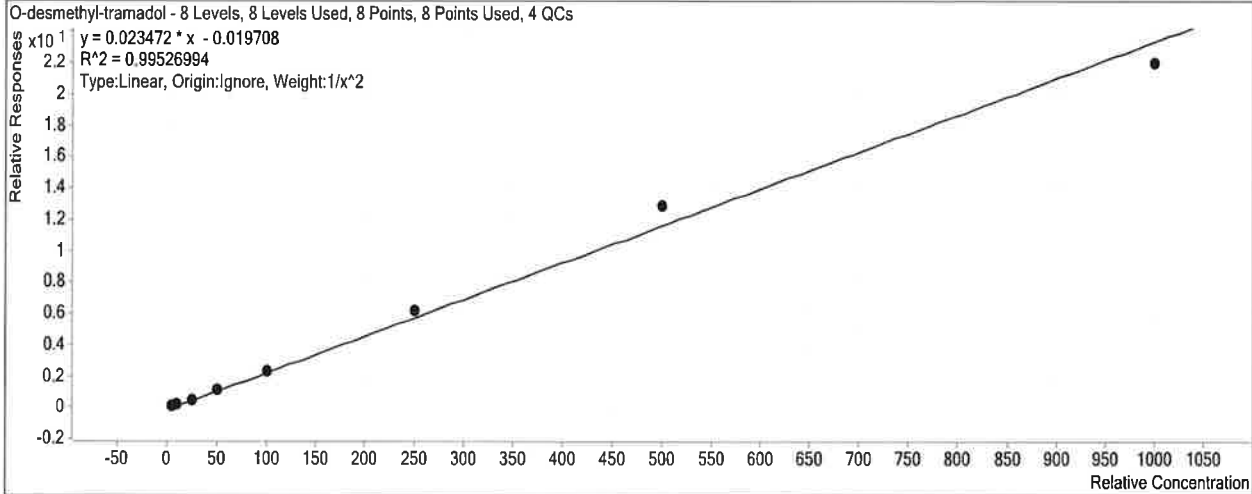
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.2 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.8 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.5 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.8 | 91.1 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.1 | 96.3 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 99.7 | 99.7 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 98.3 | 98.3 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 249.1 | 99.6 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 250.3 | 100.1 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 518.8 | 103.8 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1095.5 | 109.6 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1052.4 | 105.2 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *O-desmethyl-tramadol*
Internal Standard *O-desmethyl-tramadol-D6*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.5 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.8 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 100.4 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.4 | 93.8 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.5 | 97.0 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 99.9 | 99.9 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 101.3 | 101.3 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 265.4 | 106.2 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 277.1 | 110.9 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 549.6 | 109.9 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 939.1 | 93.9 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 975.3 | 97.5 |

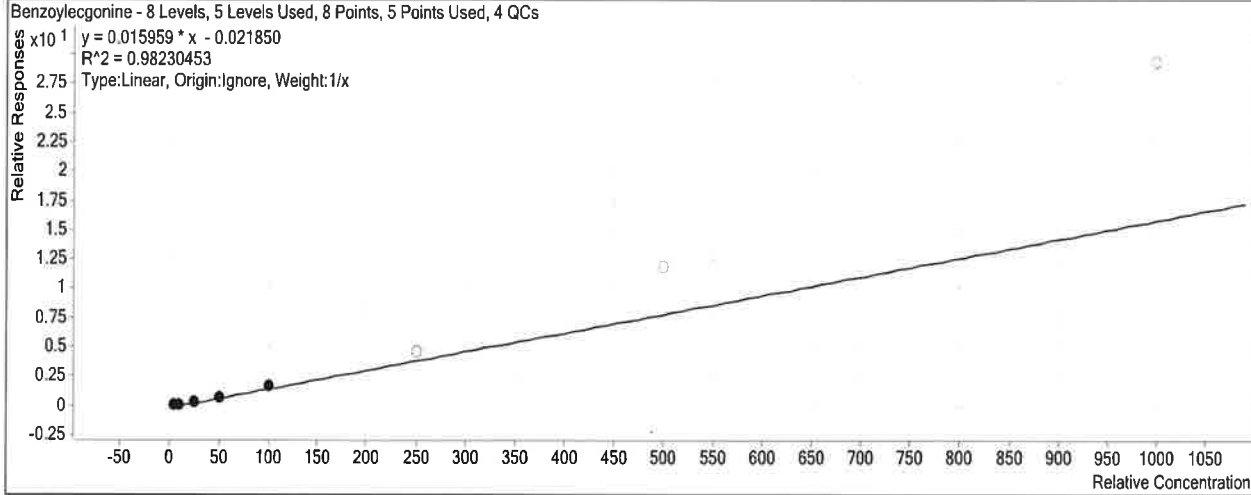
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Benzoylecgonine
Internal Standard Benzoylecgonine-d8



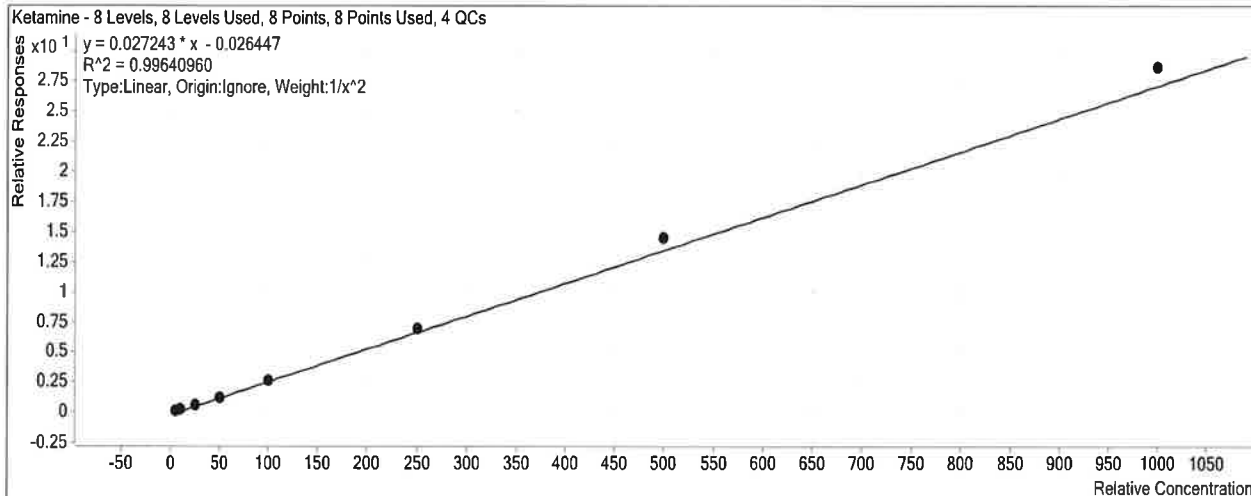
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.3 | 125.4 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.3 | 92.7 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 11.1 | 111.0 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 20.6 | 82.3 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 45.7 | 91.4 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 108.2 | 108.2 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 110.7 | 110.7 |
| b cal 6-250ng.d | 6 | <input type="checkbox"/> | 250 | 290.9 | 116.4 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 427.6 | 171.0 |
| b cal 7-500ng.d | 7 | <input type="checkbox"/> | 500 | 750.2 | 150.0 |
| b cal 8-1000ng.d | 8 | <input type="checkbox"/> | 1000 | 1843.1 | 184.3 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 6302.0 | 630.2 |

TS

ISP Forensics Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Ketamine
Internal Standard Ketamine-D4



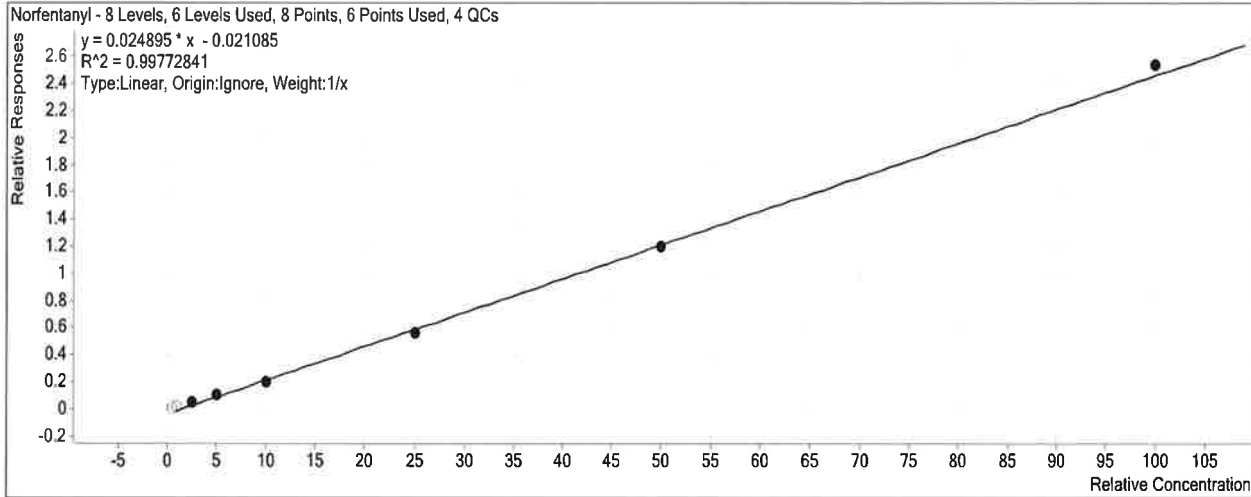
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.9 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.8 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.9 | 98.6 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.4 | 93.4 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.5 | 95.1 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 97.1 | 97.1 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 97.5 | 97.5 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 256.5 | 102.6 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 258.5 | 103.4 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 534.2 | 106.8 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1052.9 | 105.3 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1044.8 | 104.5 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Norfentanyl
Internal Standard Norfentanyl-D5



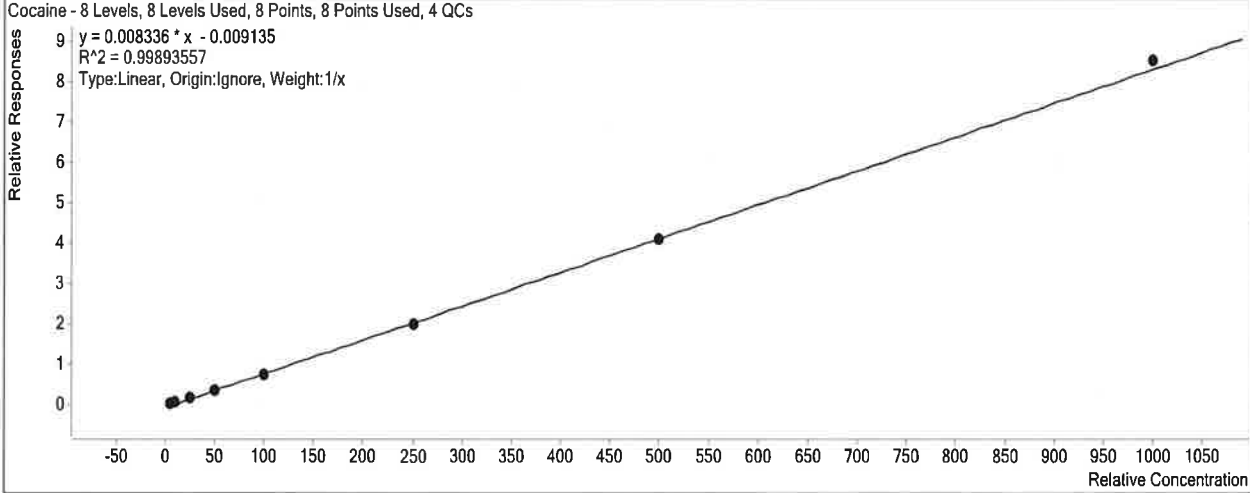
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input type="checkbox"/> | 0.5 | 1.1 | 227.6 |
| b cal 2-10ng.d | 2 | <input type="checkbox"/> | 1 | 1.5 | 152.1 |
| b QC 10 (QC1).d | 2 | <input type="checkbox"/> | 1 | 1.5 | 150.2 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 2.5 | 2.9 | 116.5 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 5 | 4.8 | 96.9 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 10 | 9.1 | 91.0 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 10 | 9.2 | 91.9 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 25 | 23.6 | 94.4 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 25 | 23.1 | 92.6 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 50 | 49.1 | 98.2 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 100 | 102.9 | 102.9 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 100 | 103.3 | 103.3 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Cocaine
Internal Standard Cocaine-d3



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.1 | 122.9 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 99.7 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.9 | 99.3 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.9 | 91.5 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 46.8 | 93.6 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 94.2 | 94.2 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 90.1 | 90.1 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 242.4 | 96.9 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 231.0 | 92.4 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 493.4 | 98.7 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1024.2 | 102.4 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 989.8 | 99.0 |

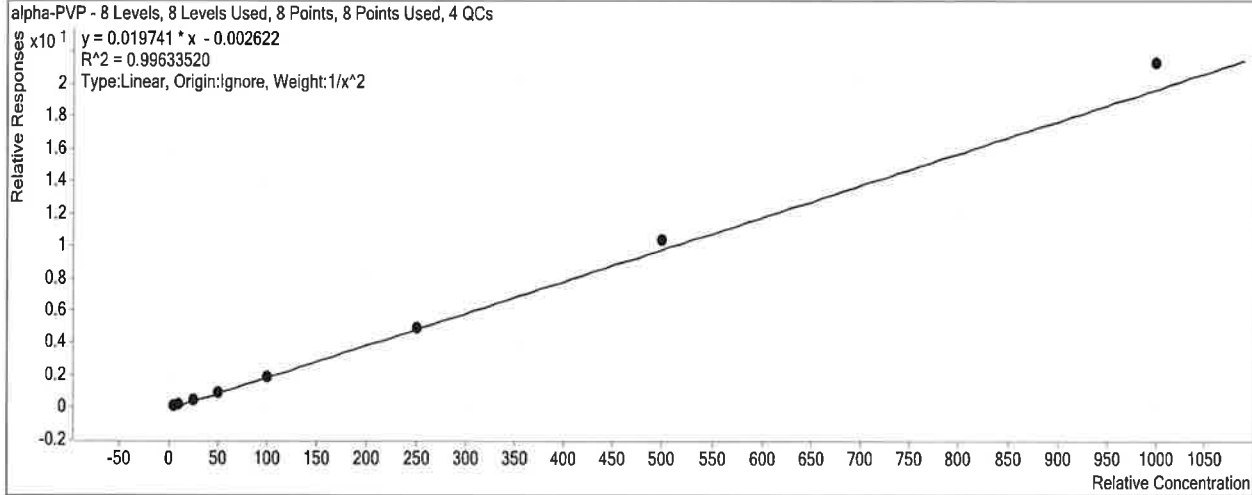
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *alpha-PVP*
Internal Standard *alpha-PVP-d8*



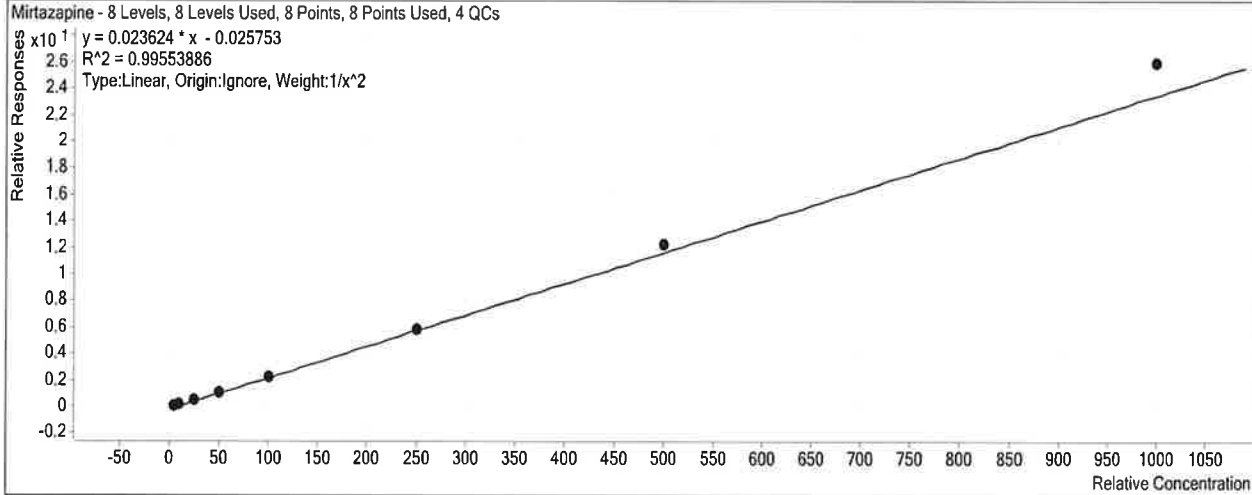
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.6 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 96.4 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 95.9 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.2 | 93.0 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.1 | 96.3 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 96.7 | 96.7 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 96.0 | 96.0 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 251.6 | 100.6 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 248.8 | 99.5 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 526.2 | 105.2 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1081.3 | 108.1 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1071.7 | 107.2 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Mirtazapine*
Internal Standard *alpha-PVP-d8*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.1 | 102.9 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.9 | 98.6 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.3 | 103.2 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.9 | 91.7 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.2 | 94.4 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 98.0 | 98.0 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 102.7 | 102.7 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 249.3 | 99.7 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 238.0 | 95.2 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 522.3 | 104.5 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1101.1 | 110.1 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 896.7 | 89.7 |

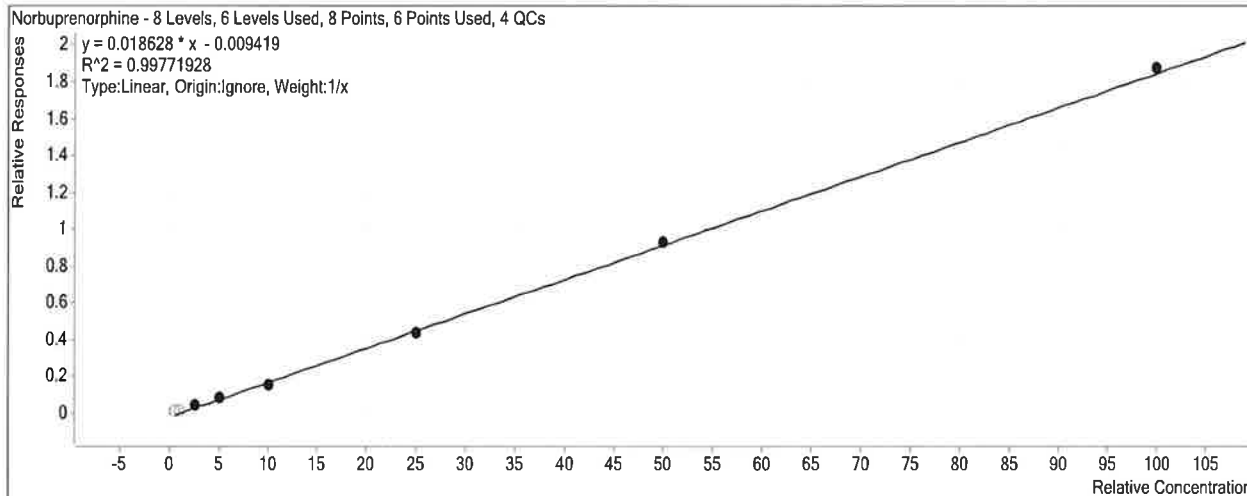
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Norbuprenorphine*
Internal Standard *Norbuprenorphine-D3*



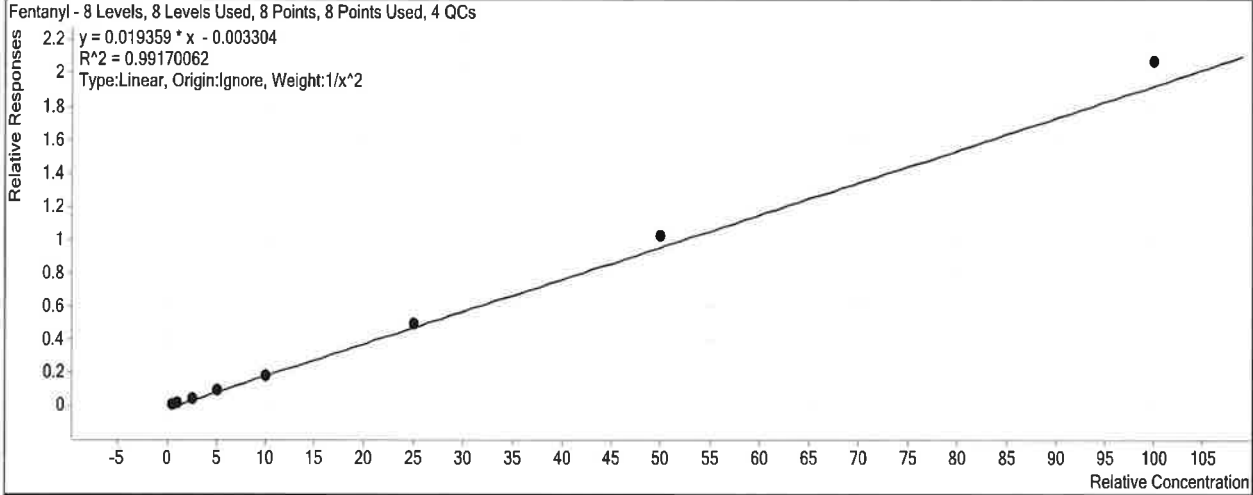
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input type="checkbox"/> | 0.5 | 1.1 | 227.5 |
| b cal 2-10ng.d | 2 | <input type="checkbox"/> | 1 | 1.1 | 114.0 |
| b QC 10 (QC1).d | 2 | <input type="checkbox"/> | 1 | 2.2 | 218.4 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 2.5 | 2.9 | 117.2 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 5 | 4.9 | 97.8 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 10 | 8.6 | 86.2 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.1 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 25 | 24.0 | 96.1 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 25 | 24.6 | 98.4 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 50 | 50.6 | 101.2 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 100 | 101.4 | 101.4 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 100 | 123.9 | 123.9 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Fentanyl
Internal Standard Fentanyl-D5



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 0.5 | 0.5 | 108.2 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 1 | 0.9 | 87.6 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 1 | 1.0 | 105.0 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 2.5 | 2.2 | 89.2 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 5 | 5.1 | 101.3 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 10 | 9.8 | 97.9 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 10 | 9.0 | 89.6 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 25 | 25.6 | 102.5 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 25 | 22.5 | 89.9 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 50 | 53.0 | 106.1 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 100 | 107.3 | 107.3 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 100 | 100.7 | 100.7 |

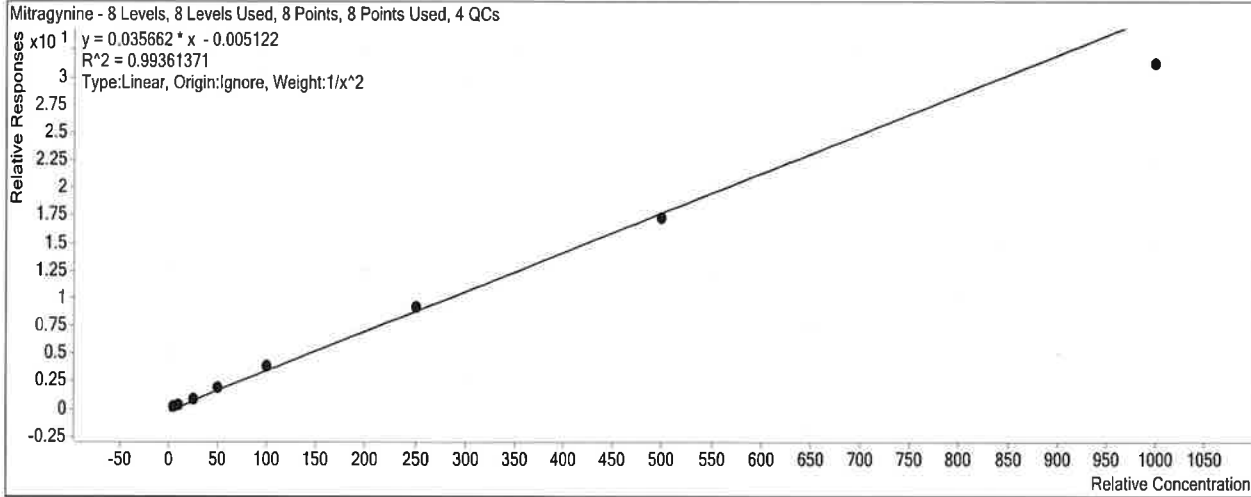
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Mitragynine*
Internal Standard *EDDP-D3*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.1 | 101.1 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.6 | 96.2 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 8.5 | 84.8 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.4 | 97.5 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 54.8 | 109.6 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 107.7 | 107.7 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 93.5 | 93.5 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 256.9 | 102.8 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 181.6 | 72.6 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 486.8 | 97.4 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 877.2 | 87.7 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 289.0 | 28.9 |

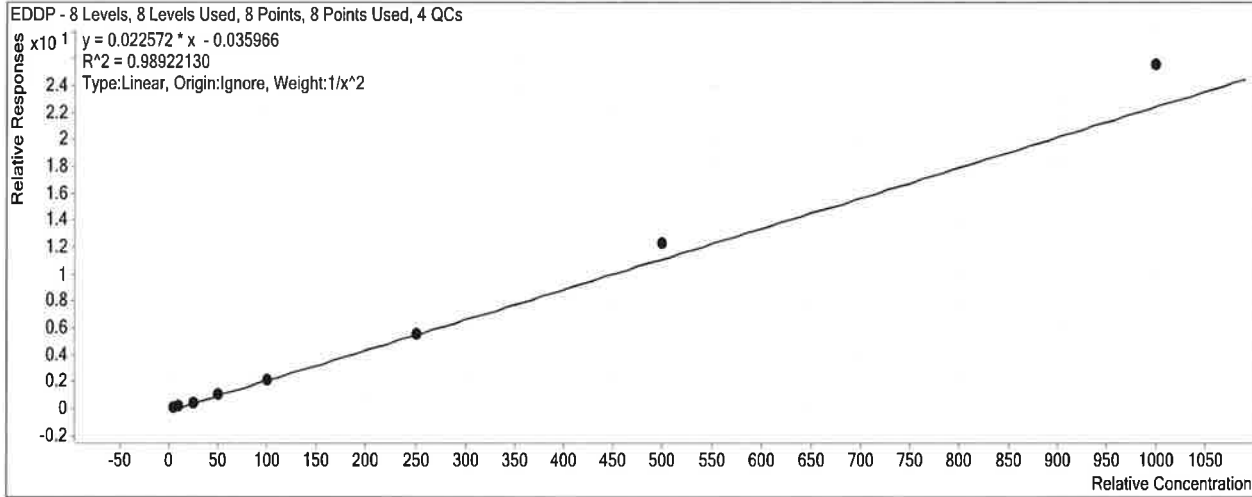
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound EDDP
Internal Standard EDDP-D3



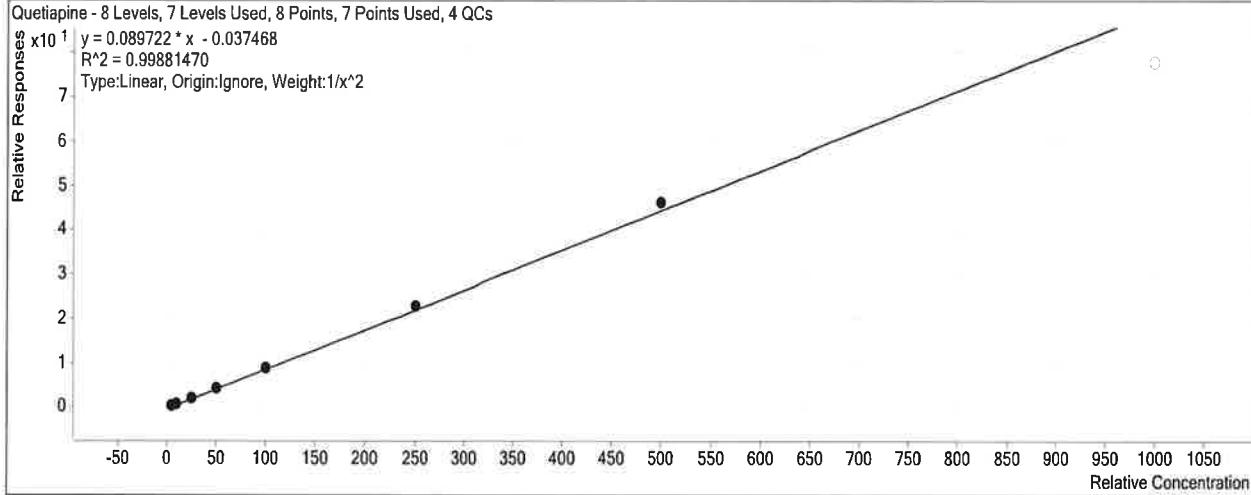
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.6 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 97.8 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.4 | 94.5 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 21.3 | 85.2 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.6 | 95.1 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 95.5 | 95.5 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 92.5 | 92.5 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 246.0 | 98.4 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 250.1 | 100.0 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 548.5 | 109.7 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1136.7 | 113.7 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1034.4 | 103.4 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklist 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Quetiapine
Internal Standard Quetiapine-D8



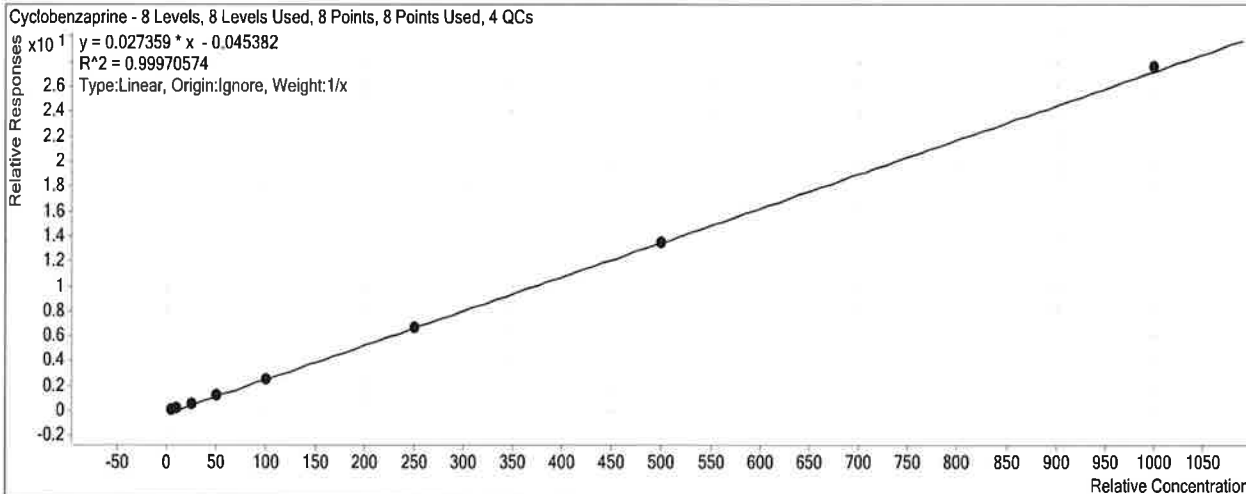
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.1 | 102.2 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 97.1 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.8 | 108.5 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.0 | 95.8 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 50.1 | 100.1 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 98.8 | 98.8 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 101.7 | 101.7 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 255.7 | 102.3 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 267.8 | 107.1 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 518.2 | 103.6 |
| b cal 8-1000ng.d | 8 | <input type="checkbox"/> | 1000 | 868.7 | 86.9 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 907.1 | 90.7 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Cyclobenzaprine
Internal Standard Cyclobenzaprine-D3



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.6 | 112.9 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 99.5 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.4 | 104.3 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.6 | 94.4 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.5 | 96.9 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 96.8 | 96.8 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 101.4 | 101.4 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 248.0 | 99.2 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 255.7 | 102.3 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 495.3 | 99.1 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1012.2 | 101.2 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1065.4 | 106.5 |

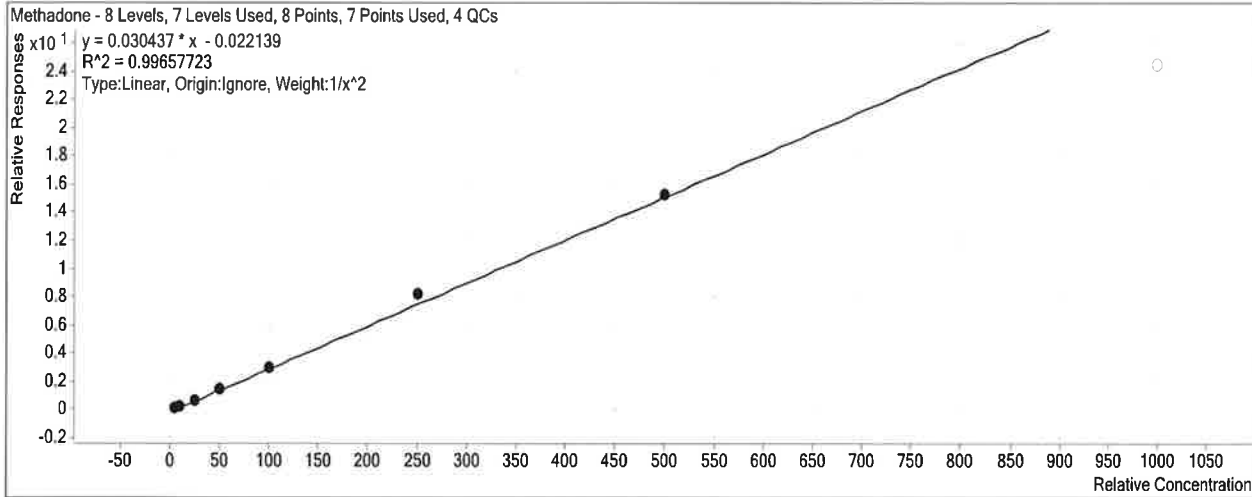
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Methadone*
Internal Standard *Methadone-D9*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.1 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.6 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.6 | 105.6 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.5 | 93.8 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.2 | 96.5 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 101.2 | 101.2 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 101.1 | 101.1 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 271.5 | 108.6 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 269.7 | 107.9 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 501.4 | 100.3 |
| b cal 8-1000ng.d | 8 | <input type="checkbox"/> | 1000 | 805.4 | 80.5 |
| b QC 1000 (QC4).d | 8 | <input type="checkbox"/> | 1000 | 1095.6 | 109.6 |

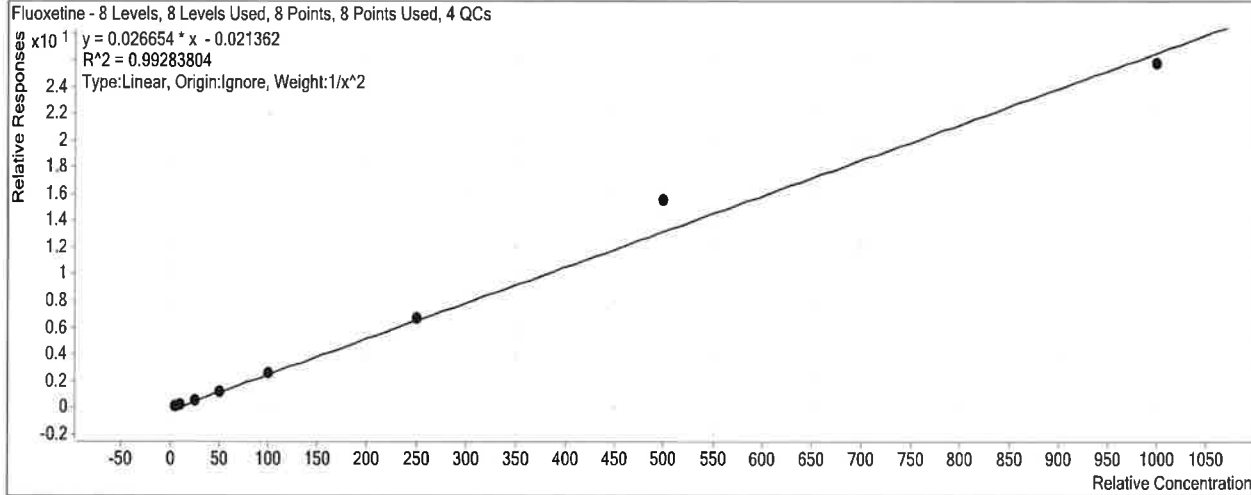
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklist 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Fluoxetine
Internal Standard Fluoxetine-D6



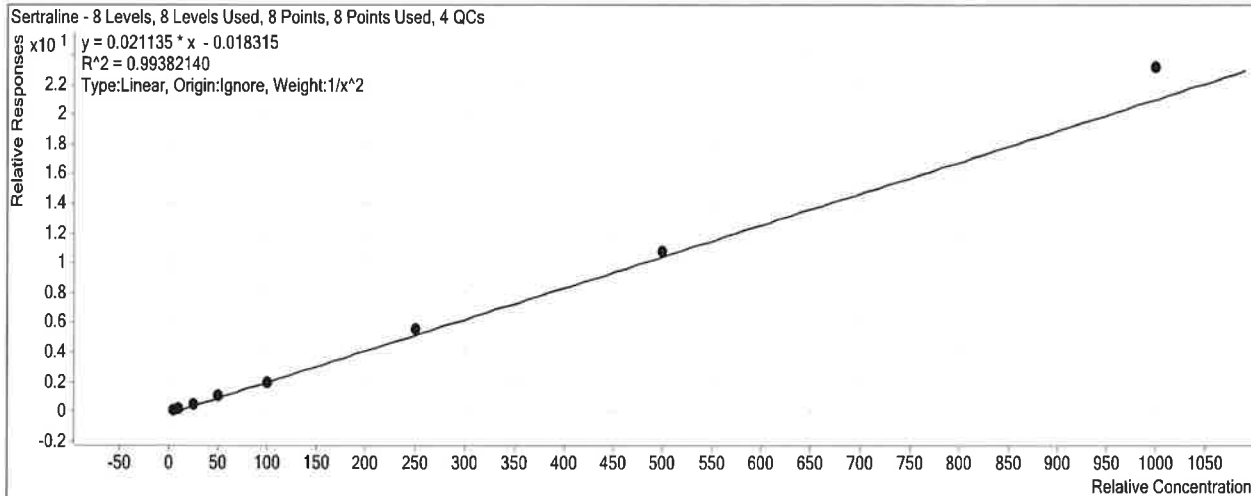
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 103.5 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.7 | 96.6 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.9 | 108.9 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.2 | 92.7 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.8 | 95.7 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 97.8 | 97.8 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 95.8 | 95.8 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 250.6 | 100.2 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 247.5 | 99.0 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 582.3 | 116.5 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 969.2 | 96.9 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 943.7 | 94.4 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Sertraline
Internal Standard Sertraline-D3



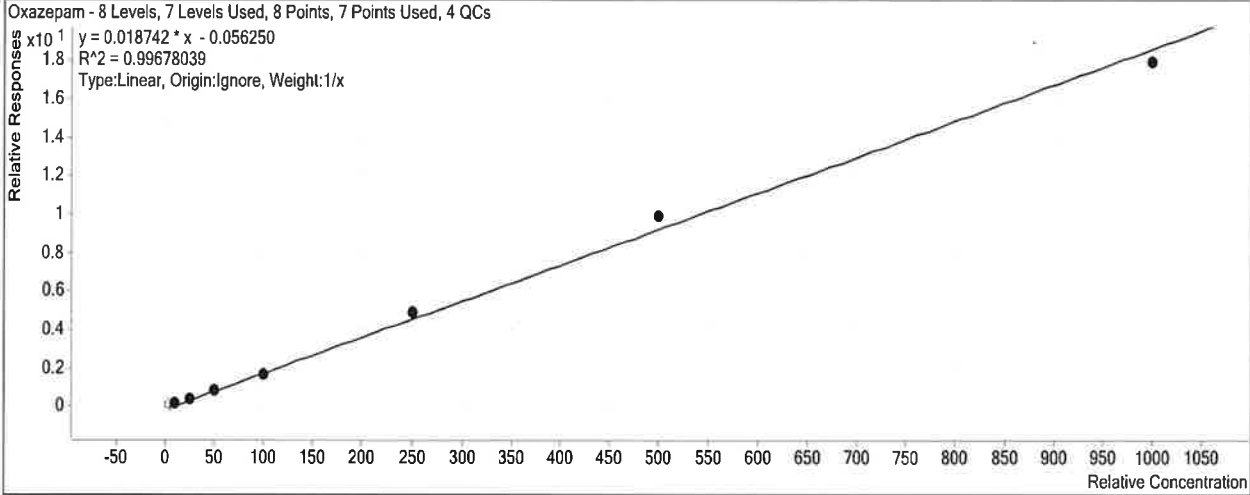
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.3 | 105.6 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.3 | 92.7 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 9.8 | 98.3 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.8 | 91.0 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 49.8 | 99.5 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 94.1 | 94.1 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 89.6 | 89.6 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 261.8 | 104.7 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 233.5 | 93.4 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 510.8 | 102.2 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1100.7 | 110.1 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 981.9 | 98.2 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Oxazepam
Internal Standard Oxazepam-D5



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input type="checkbox"/> | 5 | 7.3 | 146.2 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.1 | 101.5 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 100.2 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 25.6 | 102.3 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.1 | 96.1 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 91.4 | 91.4 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 88.5 | 88.5 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 264.6 | 105.9 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 239.3 | 95.7 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 533.3 | 106.7 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 961.9 | 96.2 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1134.0 | 113.4 |

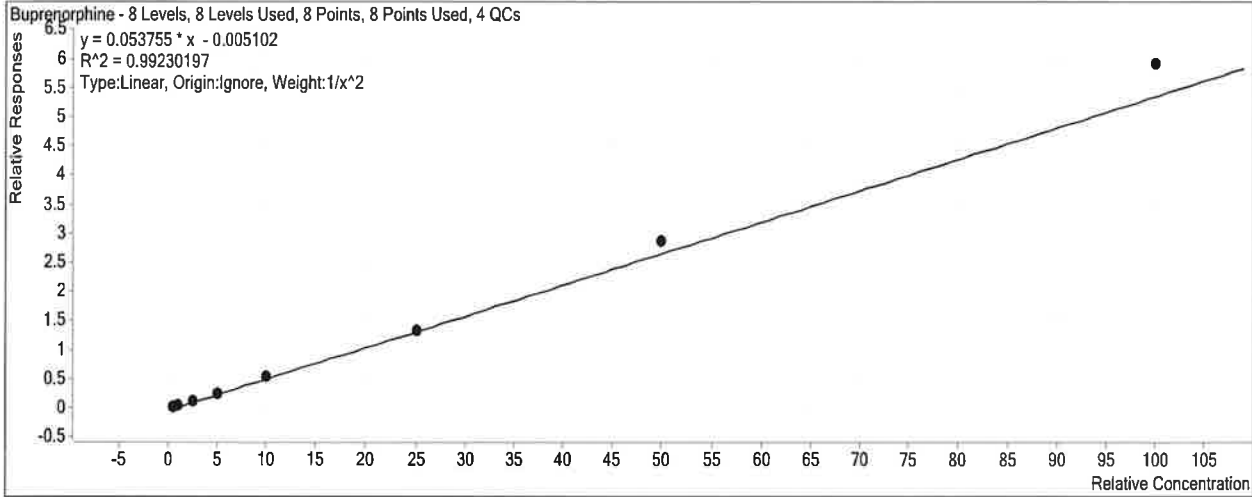
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Buprenorphine*
Internal Standard *Buprenorphine-D4*



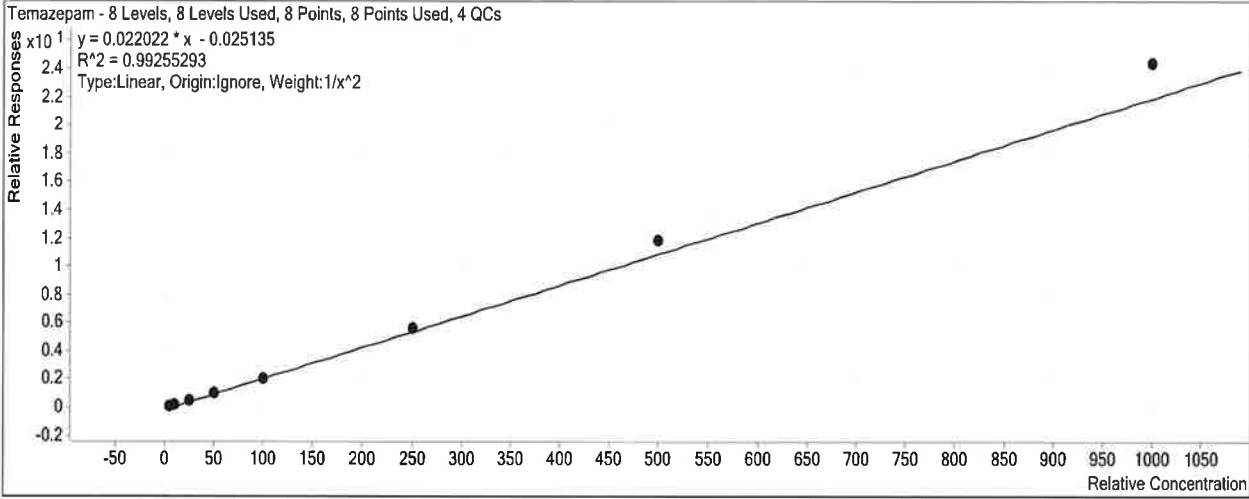
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|--------------------------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 0.5 | 0.5 | 106.3 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 1 | 0.9 | 92.5 |
| b QC 10 (QC1).d | 2 | <input type="checkbox"/> | 1 | 0.9 | 93.0 — Peak cut off — TS |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 2.5 | 2.3 | 90.0 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 5 | 4.6 | 92.5 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 10 | 10.1 | 100.6 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 10 | 10.1 | 100.9 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 25 | 25.1 | 100.6 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 25 | 24.4 | 97.6 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 50 | 53.6 | 107.2 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 100 | 110.2 | 110.2 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 100 | 110.6 | 110.6 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Temazepam*
Internal Standard *Temazepam-D5*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.3 | 105.2 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.5 | 94.7 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.0 | 100.2 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 22.5 | 89.8 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 48.3 | 96.5 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 93.4 | 93.4 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 93.1 | 93.1 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 254.7 | 101.9 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 241.7 | 96.7 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 537.2 | 107.4 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1110.4 | 111.0 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1091.4 | 109.1 |

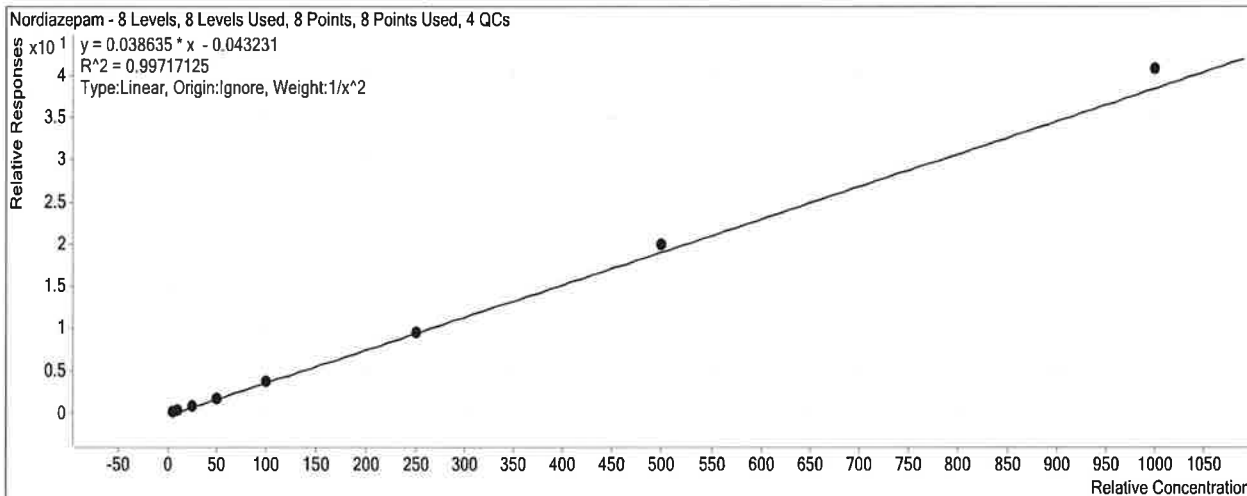
ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ
121318.batch.bin

Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound Nordiazepam
Internal Standard Nordiazepam-D5



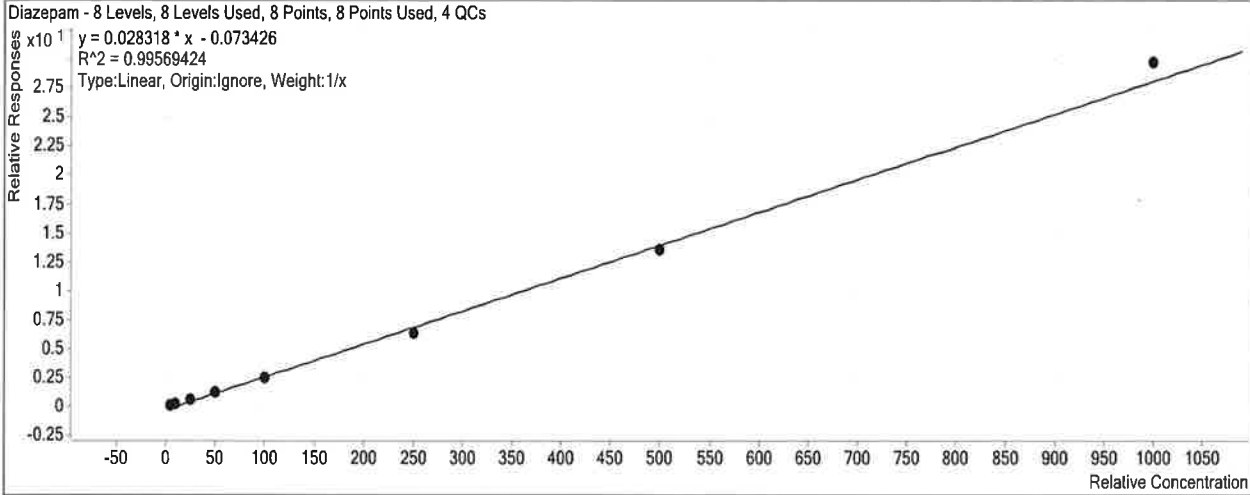
| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 5.2 | 104.6 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 9.2 | 92.3 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.3 | 103.0 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 24.6 | 98.4 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 47.8 | 95.5 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 99.4 | 99.4 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 101.2 | 101.2 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 251.0 | 100.4 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 259.8 | 103.9 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 518.0 | 103.6 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1057.8 | 105.8 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1065.2 | 106.5 |

ISP Forensics Calibration Curve Report

TS

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Last Calib Update 12/20/2018 9:09 AM **Analyst Name** ISP TOX

Target Compound *Diazepam*
Internal Standard *Diazepam-D5*



| Sample | Level | Enabled | Exp Conc | Final Conc | Accuracy |
|-------------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng.d | 1 | <input checked="" type="checkbox"/> | 5 | 6.4 | 128.6 |
| b cal 2-10ng.d | 2 | <input checked="" type="checkbox"/> | 10 | 10.5 | 105.3 |
| b QC 10 (QC1).d | 2 | <input checked="" type="checkbox"/> | 10 | 10.9 | 109.2 |
| b cal 3-25ng.d | 3 | <input checked="" type="checkbox"/> | 25 | 23.0 | 92.1 |
| b cal 4-50ng.d | 4 | <input checked="" type="checkbox"/> | 50 | 45.7 | 91.4 |
| b cal 5-100ng.d | 5 | <input checked="" type="checkbox"/> | 100 | 89.6 | 89.6 |
| b QC 100 (QC2).d | 5 | <input checked="" type="checkbox"/> | 100 | 90.3 | 90.3 |
| b cal 6-250ng.d | 6 | <input checked="" type="checkbox"/> | 250 | 228.0 | 91.2 |
| b QC 250 (QC 3).d | 6 | <input checked="" type="checkbox"/> | 250 | 237.1 | 94.8 |
| b cal 7-500ng.d | 7 | <input checked="" type="checkbox"/> | 500 | 481.9 | 96.4 |
| b cal 8-1000ng.d | 8 | <input checked="" type="checkbox"/> | 1000 | 1054.9 | 105.5 |
| b QC 1000 (QC4).d | 8 | <input checked="" type="checkbox"/> | 1000 | 1054.2 | 105.4 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

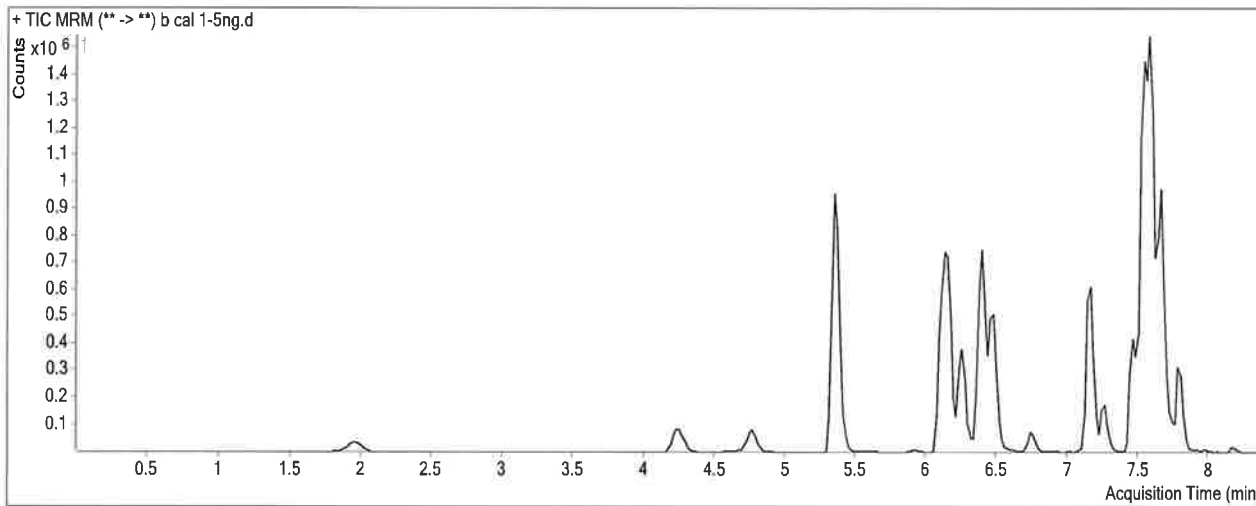
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:11 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 12:45 **Data File** b cal 1-5ng.d
Sample Type Calibration **Sample Name** b cal 1-5ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-H12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 31970 | 267762 | 0.1194 | 5.2917 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.271 | 34108 | 434125 | 0.0786 | 4.8684 |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 45260 | 369354 | 0.1225 | 5.2097 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.375 | 353613 | 3476991 | 0.1017 | 5.1726 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 2593 | 33148 | 0.0782 | 6.2705 |
| Ketamine | Ketamine-D4 | 6.123 | 196909 | 1711160 | 0.1151 | 5.1948 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 15569 | 2147378 | 0.0073 | 1.1382 |
| Cocaine | Cocaine-d3 | 6.396 | 104180 | 2474165 | 0.0421 | 6.1472 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 162804 | 1633713 | 0.0997 | 5.1808 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 156556 | 1633713 | 0.0958 | 5.1466 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.135 | 513 | 43574 | 0.0118 | 1.1376 |
| Fentanyl | Fentanyl-D5 | 7.159 | 15753 | 2197382 | 0.0072 | 0.5410 |
| Mitragynine | EDDP-D3 | 7.236 | 73098 | 417449 | 0.1751 | 5.0537 |
| EDDP | EDDP-D3 | 7.269 | 34287 | 417449 | 0.0821 | 5.2323 |
| Quetiapine | Quetiapine-D8 | 7.458 | 364917 | 866333 | 0.4212 | 5.1123 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.532 | 107091 | 982512 | 0.1090 | 5.6426 |
| Methadone | Methadone-D9 | 7.540 | 461837 | 3428083 | 0.1347 | 5.1536 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 413670 | 3547572 | 0.1166 | 5.1762 |
| Sertraline | Sertraline-D3 | 7.645 | 134492 | 1441649 | 0.0933 | 5.2805 |

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

TS
b cal 1-5ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.649 | 12663 | 156766 | 0.0808 | 7.3110 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 7960 | 339026 | 0.0235 | 0.5317 |
| Temazepam | Temazepam-D5 | 7.687 | 104727 | 1154671 | 0.0907 | 5.2600 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 33863 | 213284 | 0.1588 | 5.2285 |
| Diazepam | Diazepam-D5 | 7.811 | 79604 | 732113 | 0.1087 | 6.4325 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

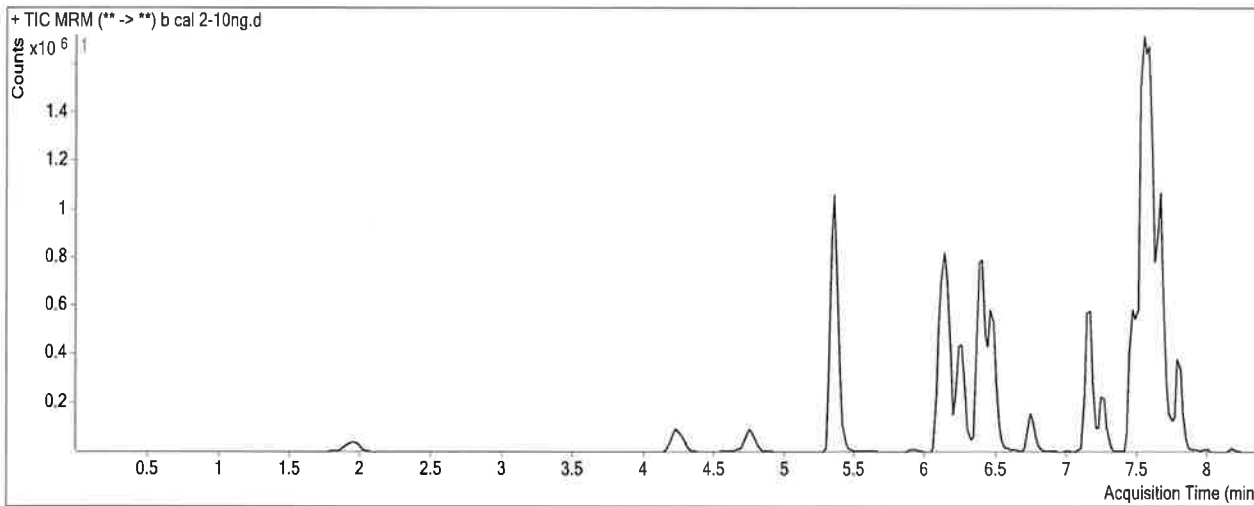
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:11 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 13:17 **Data File** b cal 2-10ng.d
Sample Type Calibration **Sample Name** b cal 2-10ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-G12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.948 | 63638 | 266698 | 0.2386 | 9.3234 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.271 | 71110 | 433718 | 0.1640 | 9.5382 |
| Noroxycodone | Noroxycodone-D3 | 4.774 | 97912 | 379882 | 0.2577 | 9.5782 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.354 | 717167 | 3495854 | 0.2051 | 9.5799 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.932 | 4140 | 32819 | 0.1261 | 9.2728 |
| Ketamine | Ketamine-D4 | 6.123 | 404181 | 1722918 | 0.2346 | 9.5819 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 36694 | 2187800 | 0.0168 | 1.5207 |
| Cocaine | Cocaine-d3 | 6.375 | 189215 | 2558761 | 0.0739 | 9.9669 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 310690 | 1654643 | 0.1878 | 9.6443 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 342697 | 1654643 | 0.2071 | 9.8574 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.095 | 520 | 43978 | 0.0118 | 1.1400 |
| Fentanyl | Fentanyl-D5 | 7.159 | 28932 | 2118649 | 0.0137 | 0.8761 |
| Mitragynine | EDDP-D3 | 7.236 | 149372 | 441957 | 0.3380 | 9.6208 |
| EDDP | EDDP-D3 | 7.269 | 81672 | 441957 | 0.1848 | 9.7805 |
| Quetiapine | Quetiapine-D8 | 7.458 | 781681 | 937492 | 0.8338 | 9.7108 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.513 | 231192 | 1019032 | 0.2269 | 9.9511 |
| Methadone | Methadone-D9 | 7.540 | 964296 | 3548114 | 0.2718 | 9.6565 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 803237 | 3400376 | 0.2362 | 9.6638 |
| Sertraline | Sertraline-D3 | 7.645 | 261784 | 1473893 | 0.1776 | 9.2703 |

TS

b cal 2-10ng
2

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

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 19979 | 149175 | 0.1339 | 10.1474 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 16321 | 365903 | 0.0446 | 0.9247 |
| Temazepam | Temazepam-D5 | 7.687 | 220086 | 1199999 | 0.1834 | 9.4698 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 66271 | 211471 | 0.3134 | 9.2303 |
| Diazepam | Diazepam-D5 | 7.811 | 165148 | 735196 | 0.2246 | 10.5252 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

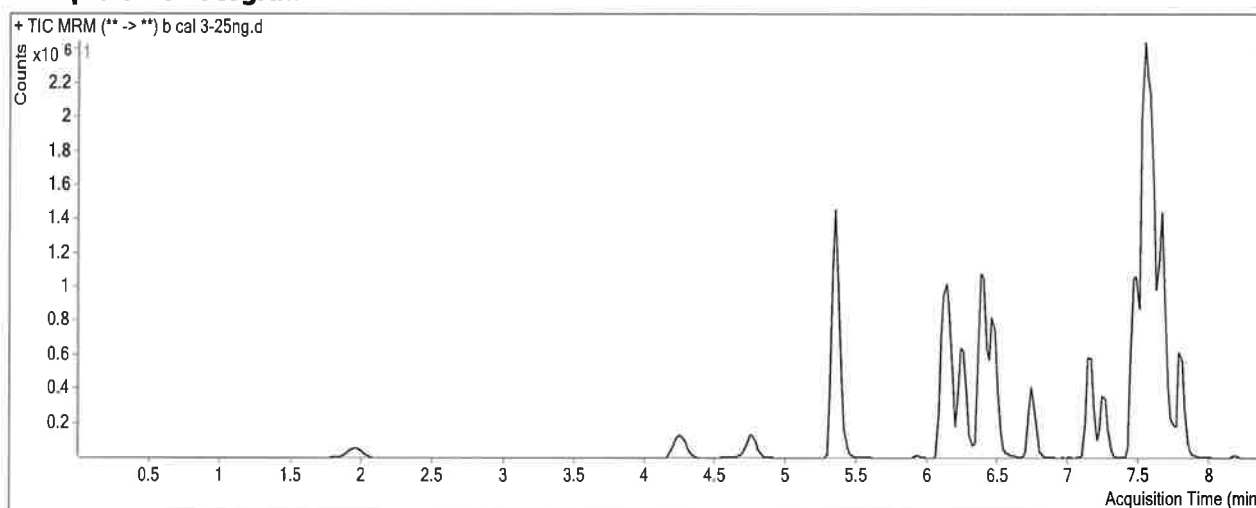
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wk1st 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISUser
Report Time 12/20/2018 9:11 AM **Reporter Name** ISUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 13:51 **Data File** b cal 3-25ng.d
Sample Type Calibration **Sample Name** b cal 3-25ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-F12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 176047 | 281745 | 0.6248 | 22.3852 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.271 | 198599 | 461053 | 0.4307 | 24.1290 |
| Noroxycodone | Noroxycodone-D3 | 4.774 | 270606 | 406043 | 0.6664 | 22.7836 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.354 | 1985139 | 3741197 | 0.5306 | 23.4464 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.932 | 10668 | 34800 | 0.3065 | 20.5769 |
| Ketamine | Ketamine-D4 | 6.123 | 1104464 | 1810759 | 0.6099 | 23.3601 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 115173 | 2241053 | 0.0514 | 2.9113 |
| Cocaine | Cocaine-d3 | 6.375 | 485593 | 2674797 | 0.1815 | 22.8745 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 789193 | 1729785 | 0.4562 | 23.2438 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 892723 | 1729785 | 0.5161 | 22.9366 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.115 | 1822 | 40315 | 0.0452 | 2.9312 |
| Fentanyl | Fentanyl-D5 | 7.159 | 77351 | 1941089 | 0.0398 | 2.2291 |
| Mitragynine | EDDP-D3 | 7.236 | 401822 | 464804 | 0.8645 | 24.3849 |
| EDDP | EDDP-D3 | 7.269 | 206651 | 464804 | 0.4446 | 21.2907 |
| Quetiapine | Quetiapine-D8 | 7.458 | 1986840 | 940742 | 2.1120 | 23.9570 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.513 | 552451 | 919867 | 0.6006 | 23.6101 |
| Methadone | Methadone-D9 | 7.540 | 2443160 | 3531744 | 0.6918 | 23.4552 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 1934519 | 3243078 | 0.5965 | 23.1809 |
| Sertraline | Sertraline-D3 | 7.645 | 632905 | 1367659 | 0.4628 | 22.7621 |

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

TS

b cal 3-25ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 68661 | 162312 | 0.4230 | 25.5718 |
| Buprenorphine | Buprenorphine-D4 | 7.677 | 41479 | 357916 | 0.1159 | 2.2508 |
| Temazepam | Temazepam-D5 | 7.687 | 607173 | 1293882 | 0.4693 | 22.4506 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 193489 | 213238 | 0.9074 | 24.6051 |
| Diazepam | Diazepam-D5 | 7.791 | 458028 | 791863 | 0.5784 | 23.0184 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

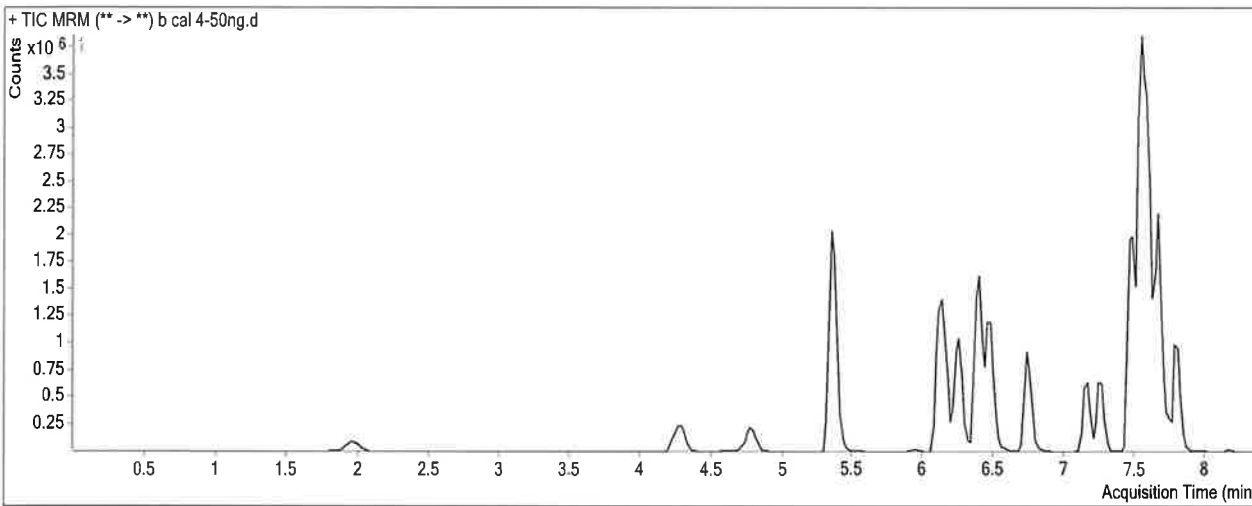
Multi-Drug Confirmatory Analysis Report

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Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:11 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 15:13 **Data File** b cal 4-50ng.d
Sample Type Calibration **Sample Name** b cal 4-50ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-E12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 376978 | 272905 | 1.3814 | 47.9693 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 441840 | 473866 | 0.9324 | 51.5646 |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 601895 | 414762 | 1.4512 | 48.1387 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.354 | 4329349 | 3868676 | 1.1191 | 48.5176 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.932 | 25591 | 36192 | 0.7071 | 45.6752 |
| Ketamine | Ketamine-D4 | 6.123 | 2405227 | 1896197 | 1.2684 | 47.5317 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 234973 | 2359484 | 0.0996 | 4.8472 |
| Cocaine | Cocaine-d3 | 6.396 | 1042474 | 2736192 | 0.3810 | 46.8013 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 1724298 | 1819576 | 0.9476 | 48.1360 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 1981831 | 1819576 | 1.0892 | 47.1955 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.135 | 3593 | 43993 | 0.0817 | 4.8903 |
| Fentanyl | Fentanyl-D5 | 7.159 | 184424 | 1947393 | 0.0947 | 5.0626 |
| Mitragynine | EDDP-D3 | 7.236 | 893905 | 458658 | 1.9490 | 54.7941 |
| EDDP | EDDP-D3 | 7.269 | 475884 | 458658 | 1.0376 | 47.5608 |
| Quetiapine | Quetiapine-D8 | 7.458 | 4226517 | 948762 | 4.4548 | 50.0686 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.532 | 1214438 | 948164 | 1.2808 | 48.4738 |
| Methadone | Methadone-D9 | 7.540 | 5321874 | 3680370 | 1.4460 | 48.2355 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 4197860 | 3349111 | 1.2534 | 47.8267 |
| Sertraline | Sertraline-D3 | 7.645 | 1356076 | 1311900 | 1.0337 | 49.7742 |

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

TS

b cal 4-50ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 140072 | 165813 | 0.8448 | 48.0740 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 82462 | 338511 | 0.2436 | 4.6266 |
| Temazepam | Temazepam-D5 | 7.687 | 1314030 | 1266148 | 1.0378 | 48.2684 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 409241 | 227104 | 1.8020 | 47.7604 |
| Diazepam | Diazepam-D5 | 7.811 | 966006 | 791423 | 1.2206 | 45.6954 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

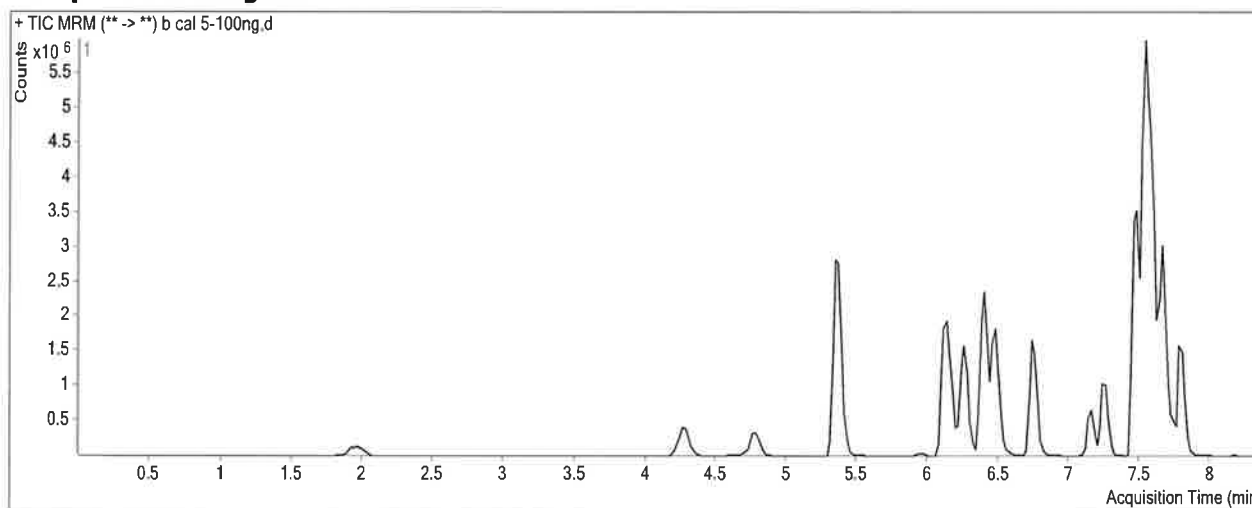
Multi-Drug Confirmatory Analysis Report

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Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:11 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 15:44 **Data File** b cal 5-100ng.d
Sample Type Calibration **Sample Name** b cal 5-100ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-D12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 737028 | 259765 | 2.8373 | 97.2071 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 841080 | 442519 | 1.9007 | 104.5171 |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 1119525 | 367585 | 3.0456 | 99.6559 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.374 | 8129118 | 3495344 | 2.3257 | 99.9253 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 56122 | 32916 | 1.7050 | 108.2047 |
| Ketamine | Ketamine-D4 | 6.123 | 4477536 | 1710237 | 2.6181 | 97.0726 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 440191 | 2141494 | 0.2056 | 9.1038 |
| Cocaine | Cocaine-d3 | 6.396 | 1920861 | 2473974 | 0.7764 | 94.2389 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 3107374 | 1630410 | 1.9059 | 96.6767 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 3734473 | 1630410 | 2.2905 | 98.0491 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.095 | 5452 | 36075 | 0.1511 | 8.6184 |
| Fentanyl | Fentanyl-D5 | 7.159 | 332339 | 1785283 | 0.1862 | 9.7865 |
| Mitragynine | EDDP-D3 | 7.236 | 1623256 | 423039 | 3.8371 | 107.7400 |
| EDDP | EDDP-D3 | 7.269 | 896373 | 423039 | 2.1189 | 95.4675 |
| Quetiapine | Quetiapine-D8 | 7.478 | 7823006 | 886693 | 8.8227 | 98.7515 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.532 | 2302645 | 884993 | 2.6019 | 96.7589 |
| Methadone | Methadone-D9 | 7.540 | 9789640 | 3201136 | 3.0582 | 101.2023 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 7365999 | 2847742 | 2.5866 | 97.8443 |
| Sertraline | Sertraline-D3 | 7.645 | 2130010 | 1080546 | 1.9712 | 94.1344 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

Multi-Drug Confirmatory Analysis Report

b cal 5-100ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 241016 | 145486 | 1.6566 | 91.3913 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 158073 | 295068 | 0.5357 | 10.0608 |
| Temazepam | Temazepam-D5 | 7.687 | 2416498 | 1189512 | 2.0315 | 93.3916 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 771791 | 203254 | 3.7972 | 99.4020 |
| Diazepam | Diazepam-D5 | 7.791 | 1774218 | 720361 | 2.4630 | 89.5666 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

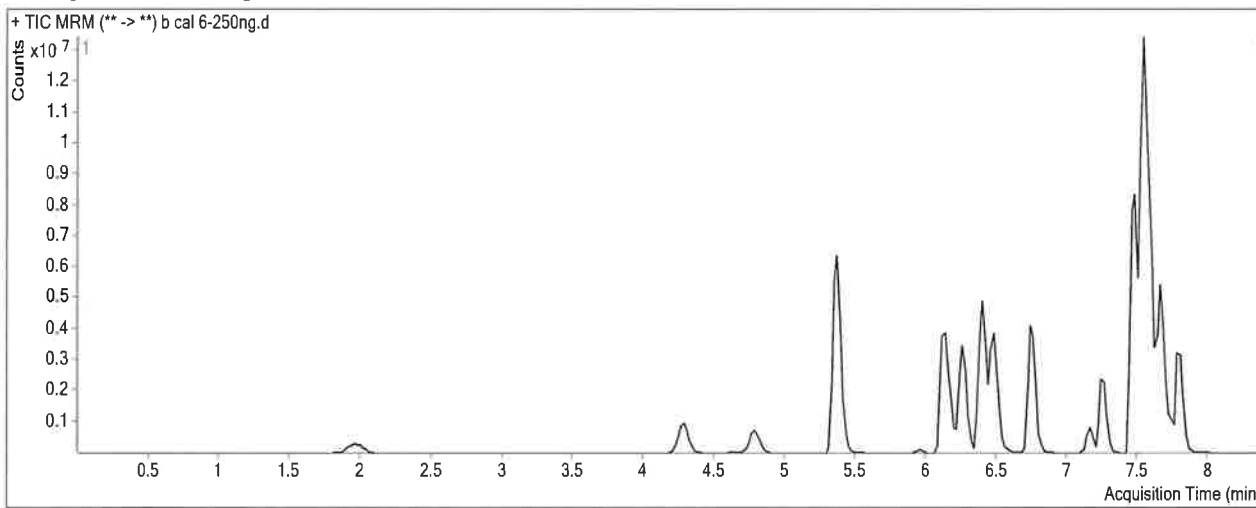
Multi-Drug Confirmatory Analysis Report

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Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:11 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 16:16 **Data File** b cal 6-250ng.d
Sample Type Calibration **Sample Name** b cal 6-250ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-C12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 1865988 | 244522 | 7.6312 | 259.3299 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 2060471 | 441207 | 4.6701 | 255.9736 |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 2642160 | 344412 | 7.6715 | 249.1209 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.375 | 21363296 | 3439882 | 6.2105 | 265.4348 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 154667 | 33468 | 4.6213 | 290.9389 |
| Ketamine | Ketamine-D4 | 6.123 | 11803540 | 1695874 | 6.9602 | 256.4570 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 1167916 | 2061165 | 0.5666 | 23.6078 |
| Cocaine | Cocaine-d3 | 6.396 | 4707199 | 2340464 | 2.0112 | 242.3697 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 7858315 | 1582880 | 4.9646 | 251.6162 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 9282053 | 1582880 | 5.8640 | 249.3185 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.095 | 17133 | 39102 | 0.4382 | 24.0269 |
| Fentanyl | Fentanyl-D5 | 7.159 | 784473 | 1591849 | 0.4928 | 25.6267 |
| Mitragynine | EDDP-D3 | 7.236 | 3812766 | 416332 | 9.1580 | 256.9420 |
| EDDP | EDDP-D3 | 7.269 | 2297152 | 416332 | 5.5176 | 246.0424 |
| Quetiapine | Quetiapine-D8 | 7.478 | 19011338 | 829949 | 22.9066 | 255.7253 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.513 | 5068390 | 752015 | 6.7397 | 248.0002 |
| Methadone | Methadone-D9 | 7.540 | 25162527 | 3053289 | 8.2411 | 271.4855 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 15140829 | 2273934 | 6.6584 | 250.6084 |
| Sertraline | Sertraline-D3 | 7.665 | 4475133 | 811416 | 5.5152 | 261.8157 |

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

TS

b cal 6-250ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 670698 | 136780 | 4.9035 | 264.6302 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 340323 | 252724 | 1.3466 | 25.1460 |
| Temazepam | Temazepam-D5 | 7.687 | 5850529 | 1047648 | 5.5844 | 254.7298 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 1806291 | 187098 | 9.6543 | 251.0017 |
| Diazepam | Diazepam-D5 | 7.811 | 4182555 | 655224 | 6.3834 | 228.0082 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

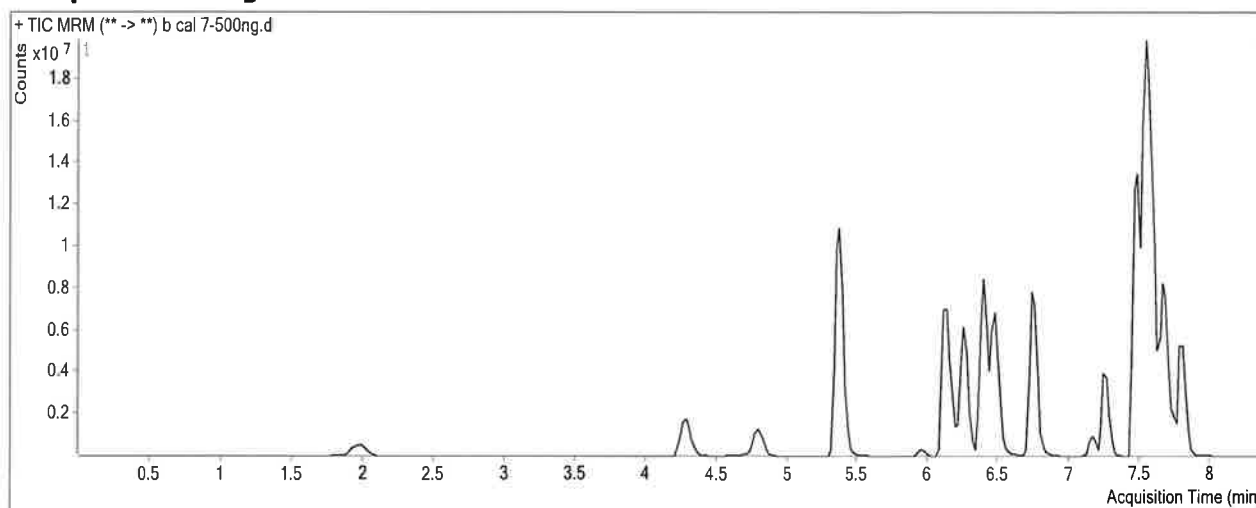
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wkst 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:12 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 16:48 **Data File** b cal 7-500ng.d
Sample Type Calibration **Sample Name** b cal 7-500ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-B12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.989 | 3627688 | 228044 | 15.9078 | 539.2354 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.291 | 3936700 | 416435 | 9.4533 | 517.5652 |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 4798368 | 299570 | 16.0175 | 518.7848 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.375 | 41301218 | 3206532 | 12.8803 | 549.6022 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 391692 | 32776 | 11.9506 | 750.1854 |
| Ketamine | Ketamine-D4 | 6.123 | 23572388 | 1622771 | 14.5260 | 534.1771 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 2225471 | 1852450 | 1.2014 | 49.1043 |
| Cocaine | Cocaine-d3 | 6.396 | 8669957 | 2112679 | 4.1038 | 493.3995 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 14912459 | 1435882 | 10.3856 | 526.2208 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 17681407 | 1435882 | 12.3140 | 522.3490 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.115 | 31122 | 33337 | 0.9336 | 50.6219 |
| Fentanyl | Fentanyl-D5 | 7.159 | 1375325 | 1343923 | 1.0234 | 53.0329 |
| Mitragynine | EDDP-D3 | 7.236 | 6049879 | 348621 | 17.3537 | 486.7573 |
| EDDP | EDDP-D3 | 7.269 | 4303866 | 348621 | 12.3454 | 548.5374 |
| Quetiapine | Quetiapine-D8 | 7.478 | 31677707 | 681892 | 46.4556 | 518.1922 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.513 | 8711526 | 644988 | 13.5065 | 495.3286 |
| Methadone | Methadone-D9 | 7.540 | 40286404 | 2643749 | 15.2384 | 501.3765 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 26113548 | 1684938 | 15.4982 | 582.2546 |
| Sertraline | Sertraline-D3 | 7.665 | 6697142 | 621384 | 10.7778 | 510.8111 |

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

TS

b cal 7-500ng
2

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------|------------------|-------|----------|-----------|------------|------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 1230258 | 123783 | 9.9388 | 533.2937 |
| Buprenorphine | Buprenorphine-D4 | 7.657 | 508409 | 176716 | 2.8770 | 53.6153 |
| Temazepam | Temazepam-D5 | 7.687 | 10985597 | 930627 | 11.8045 | 537.1822 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 3218819 | 161175 | 19.9709 | 518.0300 |
| Diazepam | Diazepam-D5 | 7.811 | 7364650 | 542601 | 13.5729 | 481.8874 |

TS

ISP FORENSICS - Pocatello Instrument # 59740

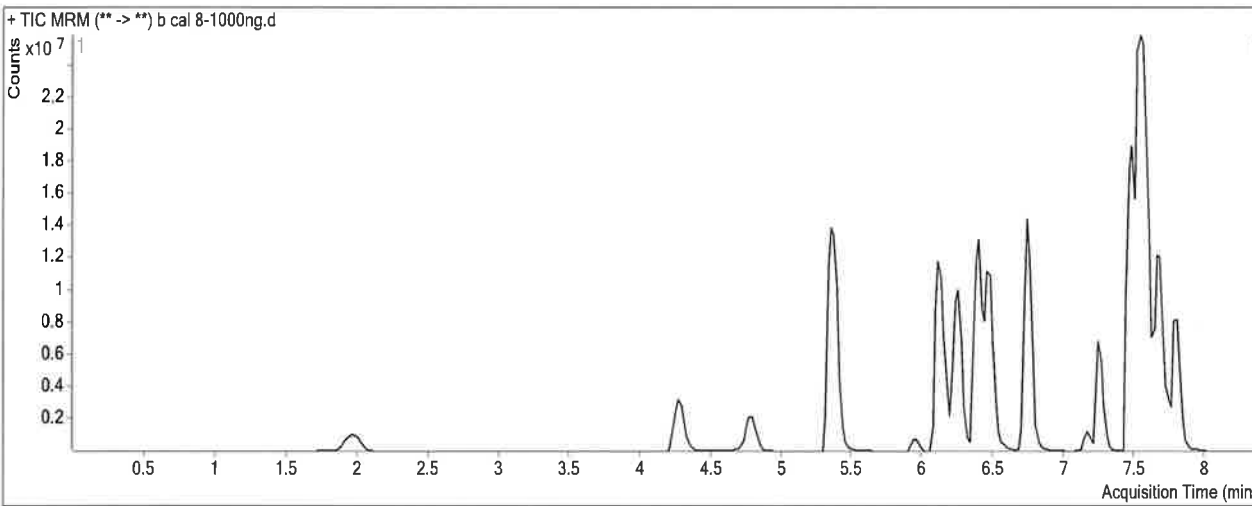
Multi-Drug Confirmatory Analysis Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\121318 MDQ TS wklst 2838\QuantResults\P1b MDQ 121318.batch.bin
Analysis Time 12/20/2018 9:09 AM **Analyst Name** ISPUser
Report Time 12/20/2018 9:12 AM **Reporter Name** ISPUser
Last Calib Update 12/20/2018 9:09 AM **Batch State** Processed

Analysis Info

Acq Time 2018-12-13 17:19 **Data File** b cal 8-1000ng.d
Sample Type Calibration **Sample Name** b cal 8-1000ng.d
Dilution 1 **Acq Method** MD Quant Panel 1b 7-11-18.m
Position P1-A12 **Sample Info**
Inj Vol -1 **Comment** AM 28

Sample Chromatogram



Results

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone | Oxymorphone-D3 | 1.968 | 7133085 | 226421 | 31.5036 | 1066.6629 |
| Dihydrocodeine | Dihydrocodeine-D6 | 4.271 | 7089538 | 399187 | 17.7599 | 971.8439 |
| Noroxycodone | Noroxycodone-D3 | 4.794 | 8740684 | 258088 | 33.8671 | 1095.5131 |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.354 | 62731196 | 2848528 | 22.0223 | 939.0935 |
| Benzoylcegonine | Benzoylcegonine-d8 | 5.952 | 1020035 | 34704 | 29.3925 | 1843.0812 |
| Ketamine | Ketamine-D4 | 6.123 | 41767024 | 1457452 | 28.6576 | 1052.9035 |
| Norfentanyl | Norfentanyl-D5 | 6.185 | 4130292 | 1625304 | 2.5412 | 102.9256 |
| Cocaine | Cocaine-d3 | 6.396 | 14716554 | 1725580 | 8.5285 | 1024.2020 |
| alpha-PVP | alpha-PVP-d8 | 6.489 | 26690598 | 1250578 | 21.3426 | 1081.2568 |
| Mirtazapine | alpha-PVP-d8 | 6.745 | 32497704 | 1250578 | 25.9862 | 1101.1019 |
| Norbuprenorphine | Norbuprenorphine-D3 | 7.095 | 45598 | 24258 | 1.8797 | 101.4113 |
| Fentanyl | Fentanyl-D5 | 7.159 | 2130694 | 1026974 | 2.0747 | 107.3414 |
| Mitragynine | EDDP-D3 | 7.236 | 9407899 | 300781 | 31.2782 | 877.2120 |
| EDDP | EDDP-D3 | 7.269 | 7706550 | 300781 | 25.6218 | 1136.7276 |
| Quetiapine | Quetiapine-D8 | 7.478 | 45291034 | 581377 | 77.9031 | 868.6922 |
| Cyclobenzaprine | Cyclobenzaprine-D3 | 7.513 | 13346788 | 482727 | 27.6487 | 1012.2346 |
| Methadone | Methadone-D9 | 7.540 | 54911999 | 2242011 | 24.4923 | 805.4102 |
| Fluoxetine | Fluoxetine-D6 | 7.582 | 33149448 | 1284243 | 25.8124 | 969.2170 |
| Sertraline | Sertraline-D3 | 7.665 | 9786259 | 421014 | 23.2445 | 1100.6676 |

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

TS

b cal 8-1000ng

| Compound | ISTD Compound | RT | Response | ISTD Resp | Resp Ratio | Final Conc |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Oxazepam | Oxazepam-D5 | 7.629 | 2041262 | 113582 | 17.9717 | 961.8917 |
| Buprenorphine | Buprenorphine-D4 | 7.677 | 731794 | 123639 | 5.9188 | 110.2021 |
| Temazepam | Temazepam-D5 | 7.687 | 20029835 | 819940 | 24.4284 | 1110.4304 |
| Nordiazepam | Nordiazepam-D5 | 7.755 | 5349243 | 131031 | 40.8242 | 1057.7787 |
| Diazepam | Diazepam-D5 | 7.811 | 12120005 | 406729 | 29.7987 | 1054.8662 |