


cg TS

REVIEWED

By Sarah Pickle at 11:35 am, Mar 15, 2019

3/12/2019

Worklist: 3037

| <u>LAB_CASE</u> | <u>ITEM</u> | <u>TASK_ID</u> | <u>DESCRIPTION</u> | |
|-----------------|-------------|----------------|---|---|
| M2019-0688 | 1 | 144250 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| M2019-0770 | 1 | 144251 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0553 | 1 | 144252 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0599 | 1 | 144253 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0604 | 2 | 144254 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0606 | 1 | 144255 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0614 | 1 | 144256 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0626 | 1 | 144257 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0644 | 1 | 144258 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |
| P2019-0697 | 1 | 144259 | AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC |  |

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

Extraction Date: 03/12/2019
Plate lot#: 190124

Analyst: Celena Shrum
Plate Expiration: 07/24/2019

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 (2.1x100-4um)~~

LCMS-QQ ID: 069910

Agilent 120 EC-C18 (2.1 x 100-2.7um) 09/16/19 TS

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.

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 0.5M 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: *D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037reinjects*
Batch Names: *am 28 worklist 3037*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS:

Curve Limitations: 7-aminoclonazepam: 5-500, Amphetamine 5-500, Buprenorphine 10-1000, Dihydrocodeine 5-500, EDDP 10-1000, Lorazepam 5-100, Meprobamate 5-250, Norbuprenorphine 2.5-100, Norhydrocodone 5-100

Case number P2019-0455 from worklist 2956 was ran with worklist 3037. Celena Shrum acted as the primary analyst on this run. I, Tamara Salazar, witness and approved of all steps and methods performed. TS CG

Samples were reinjected on 03/13/19 due to cocaine internal standard peak cutting off and not fully acquiring. TS CG

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Idaho State Police Forensic Services

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

Analyst: Celena Shrum
Extraction Date: 03/12/2019
Worklist Number: 3037

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 | | |

Blood External Control Solution (Lot: WS121218)
50 ul of methanol external control solution was added to 9950 ul of blood.

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

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AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin

Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 External Control.d

Type

Sample

Sample

p1 External Control

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-F6

Comment

Worklist 3037

Injection Volume

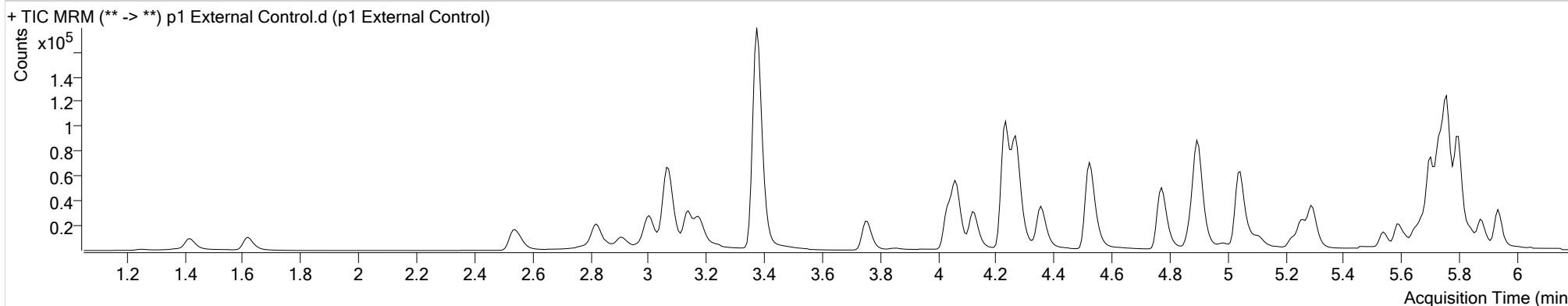
1

Acq. Date-Time

3/13/2019 3:13:55 PM

Sample Info.

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|----------|-------|---------|------------|---------------|
| Amphetamine | 3.075 | 79102 | ∞ | 55.6 | 1709.85 | 24454 | 50.3164 ng/ml |
| O-desmethyl-tramadol | 3.379 | 205099 | 27512.39 | 6.6 | 1090.78 | 209798 | 45.1419 ng/ml |
| Fluoxetine | 5.710 | 10238 | 1455.39 | 10.4 | 2376.30 | 9748 | 39.9387 ng/ml |
| Alprazolam | 5.758 | 77387 | 1086.89 | 102.9 | 1165.99 | 49256 | 47.3809 ng/ml |

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AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin

Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 Negative.d

Type

Sample

Sample

p1 Negative

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-E6

Comment

Worklist 3037

Injection Volume

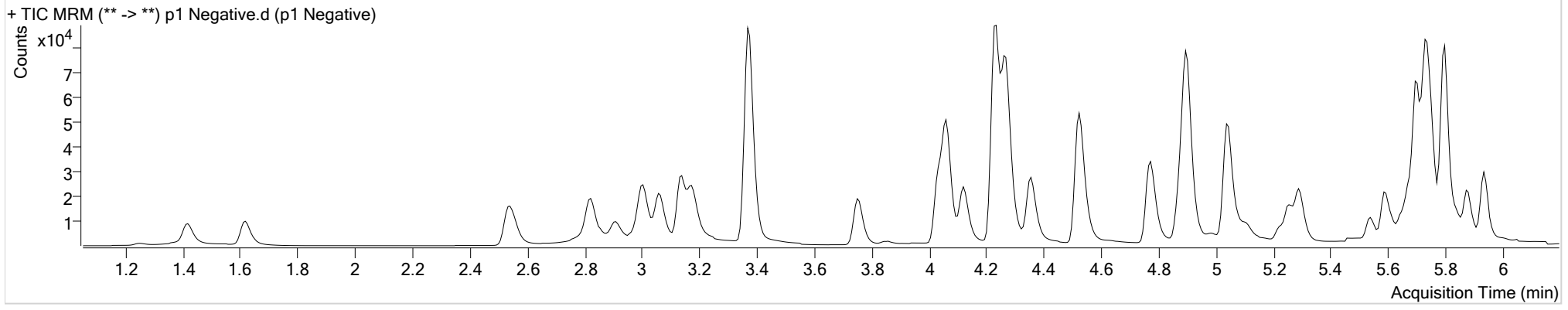
1

Acq. Date-Time

3/13/2019 2:52:59 PM

Sample Info.

Sample Chromatogram



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AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin

Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 QC 10.d

Type

QC

Sample

p1 QC 10

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-A6

Comment

Worklist 3037

Injection Volume

1

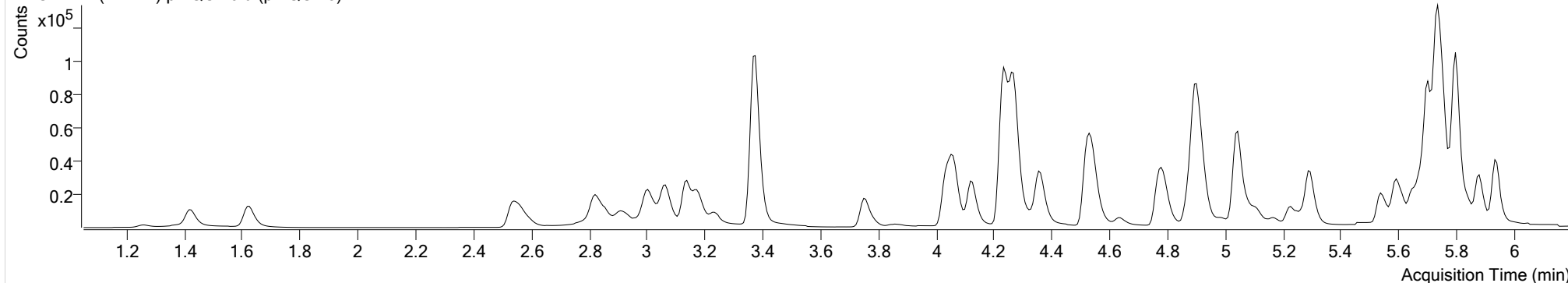
Acq. Date-Time

3/13/2019 1:08:18 PM

Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 QC 10.d (p1 QC 10)



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|-------|----------|-------|---------|------------|---------------|
| Morphine | 1.266 | 1626 | 1010.75 | 23.6 | 451.76 | 1940 | 9.6214 ng/ml |
| Oxymorphone | 1.423 | 6830 | 401.75 | 47.0 | 4009.23 | 24167 | 10.3734 ng/ml |
| Hydromorphone | 1.634 | 6782 | 1747.84 | 75.7 | 532.89 | 25076 | 9.9194 ng/ml |
| Dihydrocodeine | 2.569 | 7094 | 192.17 | 68.8 | 3993.97 | 37156 | 10.2190 ng/ml |
| Codeine | 2.597 | 2921 | 2237.15 | 97.9 | 4331.44 | 12592 | 10.1906 ng/ml |
| Oxycodone | 2.853 | 13088 | 199.29 | 33.2 | 86.01 | 54874 | 9.8842 ng/ml |
| Noroxycodone | 2.928 | 5441 | 1367.05 | 44.7 | 351.08 | 18207 | 11.0088 ng/ml |
| Hydrocodone | 3.032 | 7139 | 716.41 | 41.7 | 129.49 | 40657 | 10.3531 ng/ml |
| Amphetamine | 3.075 | 11998 | ∞ | 55.5 | 308.75 | 15930 | 10.7860 ng/ml |
| Norhydrocodone | 3.080 | 1106 | 68.27 | 45.6 | 59.33 | 38534 | 8.4025 ng/ml |
| 6-MAM | 3.151 | 1671 | ∞ | 71.6 | ∞ | 55995 | 0.8621 ng/ml |
| Methamphetamine | 3.237 | 10110 | 212.54 | 39.1 | 29.48 | 40975 | 10.2686 ng/ml |
| O-desmethyl-tramadol | 3.379 | 46423 | 18994.64 | 6.5 | 463.95 | 202487 | 10.3680 ng/ml |
| Phentermine | 3.787 | 4298 | 210.76 | 4.4 | 16.20 | 41942 | 10.3407 ng/ml |
| Benzoylcegonine | 3.876 | 889 | 25.53 | 8.4 | 76.36 | 2578 | 10.3362 ng/ml |
| Ketamine | 4.056 | 14375 | 347.20 | 37.6 | 180.00 | 67795 | 10.0029 ng/ml |
| Norfentanyl | 4.091 | 1512 | 146.95 | 35.7 | 126.13 | 63271 | 1.0188 ng/ml |
| Dextrorphan | 4.129 | 4115 | 3960.16 | 216.1 | 236.38 | 45763 | 10.3753 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|-------|---------|-------|----------|------------|----------------------------------|
| Lamotrigine | 4.297 | 1587 | 1775.48 | 83.0 | 2696.25 | 67795 | 10.2563 ng/ml |
| Tramadol | 4.249 | 36806 | 4145.71 | 3.3 | 74.84 | 173032 | 10.6636 ng/ml |
| 7-aminoclonazepam | 4.253 | 5883 | 980.63 | 77.4 | 726.58 | 23477 | 10.8115 ng/ml |
| Cocaine | 4.266 | 15423 | 6400.38 | 42.6 | 4366.03 | 144266 | 10.1214 ng/ml |
| Metoprolol | 4.329 | 3487 | 1451.28 | 92.5 | ∞ | 173032 | 9.8079 ng/ml |
| alpha-PVP | 4.366 | 12639 | 3760.74 | 53.4 | 311.74 | 56705 | 10.0680 ng/ml |
| Doxylamine | 4.542 | 28166 | 6520.46 | 96.6 | 7226.52 | 123522 | 9.9268 ng/ml |
| Mirtazapine | 4.637 | 6182 | 1837.74 | 49.0 | 953.39 | 56705 | 11.4504 ng/ml |
| Bupropion | 4.796 | 21476 | 1200.08 | 58.8 | 1550.83 | 69319 | 11.0085 ng/ml |
| Meprobamate | 4.906 | 11908 | 5507.97 | 27.9 | 895.15 | 52430 | 10.8593 ng/ml |
| Zolpidem | 4.924 | 33769 | 3685.36 | 31.3 | 60608.31 | 157698 | 10.4842 ng/ml |
| Norbuprenorphine | 4.995 | 148 | 18.14 | 79.7 | 7.50 Low | 4046 | 1.1458 ng/ml outside curve range |
| Venlafaxine | 5.046 | 21323 | 898.30 | 36.4 | 90.15 | 102508 | 10.3134 ng/ml |
| Fentanyl | 5.100 | 266 | 203.39 | 81.4 | 1093.92 | 13370 | 0.8736 ng/ml |
| Trazodone | 5.168 | 4330 | ∞ | 75.9 | 8452.49 | 15251 | 10.5942 ng/ml |
| Mitragynine | 5.235 | 698 | 3401.51 | 34.0 | 858.49 | 26314 | 8.4695 ng/ml |
| Citalopram | 5.229 | 3941 | 425.17 | 41.9 | 486.18 | 16169 | 9.9795 ng/ml |
| EDDP | 5.263 | 440 | 14.82 | 46.0 | 376.08 | 1626 | 13.1246 ng/ml |
| Dextromethorphan | 5.271 | 2175 | 54.47 | 78.3 | 2058.44 | 10193 | 9.0484 ng/ml |
| Diphenhydramine | 5.299 | 11619 | 1725.36 | 33.7 | 798.77 | 54644 | 10.3887 ng/ml |
| Promethazine | 5.541 | 6088 | 746.18 | 30.7 | 226.97 | 22044 | 11.2206 ng/ml |
| Quetiapine | 5.557 | 5167 | 1049.66 | 63.7 | 520.76 | 6370 | 10.3924 ng/ml |
| Clonazepam | 5.600 | 12358 | ∞ | 33.8 | 1236.88 | 18853 | 10.8993 ng/ml |
| Cyclobenzaprine | 5.624 | 3470 | ∞ | 11.9 | 140.31 | 11973 | 11.1035 ng/ml |
| Methadone | 5.655 | 5901 | 514.28 | 53.5 | 197.25 | 26314 | 10.3507 ng/ml |
| a-hydroxyalprazolam | 5.681 | 7953 | 335.15 | 67.0 | ∞ | 37293 | 10.5414 ng/ml |
| Carisoprodol | 5.713 | 22337 | 2788.18 | 54.3 | 315.92 | 105965 | 11.0715 ng/ml |
| Fluoxetine | 5.710 | 3273 | 2406.01 | 10.1 | 491.62 | 10955 | 9.5578 ng/ml |
| Lorazepam | 5.736 | 27306 | 452.21 | 56.5 | 155.86 | 18853 | 10.9170 ng/ml |
| Oxazepam | 5.739 | 32155 | 435.58 | 68.9 | ∞ | 122989 | 10.4366 ng/ml |
| Alprazolam | 5.758 | 18026 | ∞ | 100.8 | 533.53 | 50112 | 10.6987 ng/ml |
| Sertraline | 5.779 | 2589 | 1967.54 | 88.2 | 102.12 | 8210 | 11.9569 ng/ml |
| Temazepam | 5.807 | 33359 | 1204.31 | 28.8 | ∞ | 147374 | 10.0660 ng/ml |
| Buprenorphine | 5.871 | 432 | ∞ | 18.4 | 66.59 | 16320 | 1.0545 ng/ml |
| Nordiazepam | 5.883 | 10908 | 434.76 | 59.1 | 549.61 | 34999 | 9.7566 ng/ml |
| Diazepam | 5.944 | 11687 | 789.52 | 85.7 | 644.91 | 49981 | 10.8617 ng/ml |

AM #28 Multi-Drug Quant. Results



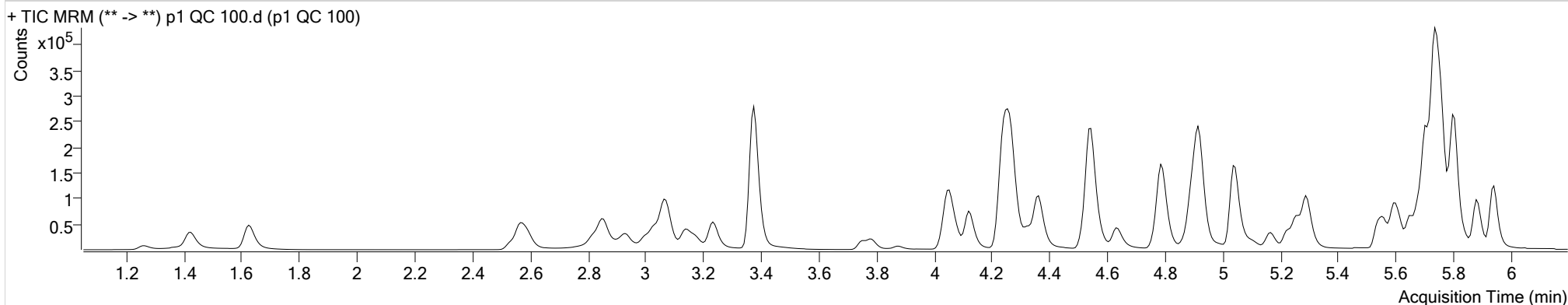
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
3/14/2019 2:28:44 PM

Instrument FALCO-LCMS (Property ID 069901)
Type QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-B6
Injection Volume 1
Acq. Date-Time 3/13/2019 1:29:15 PM
Sample Info.

Data File p1 QC 100.d
Sample p1 QC 100
Operator Celena Shrum and Tamara Salazar
Comment Worklist 3037

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|-----------|-------|-----------|------------|----------------|
| Morphine | 1.266 | 15572 | 3971.53 | 23.3 | 670.15 | 1964 | 96.4160 ng/ml |
| Oxymorphone | 1.423 | 62854 | 628.44 | 47.9 | ∞ | 22268 | 106.8895 ng/ml |
| Hydromorphone | 1.628 | 64136 | 1197.27 | 73.1 | 689.62 | 24322 | 101.4285 ng/ml |
| Dihydrocodeine | 2.569 | 68464 | 38328.60 | 68.1 | 112964.54 | 37575 | 104.0208 ng/ml |
| Codeine | 2.597 | 26263 | 3608.41 | 101.6 | 10353.78 | 12015 | 105.6220 ng/ml |
| Oxycodone | 2.847 | 130057 | 176.16 | 31.8 | 281.91 | 56485 | 104.6984 ng/ml |
| Noroxycodone | 2.928 | 49746 | ∞ | 49.9 | 796.10 | 18878 | 103.6793 ng/ml |
| Hydrocodone | 3.032 | 66286 | 791.66 | 41.5 | 977.35 | 40262 | 104.4456 ng/ml |
| Amphetamine | 3.069 | 116099 | ∞ | 55.2 | 13958.86 | 16812 | 108.7971 ng/ml |
| Norhydrocodone | 3.080 | 19595 | 516.31 | 42.2 | 185.56 | 40801 | 89.9794 ng/ml |
| 6-MAM | 3.144 | 16628 | 1962.79 | 72.1 | 4006.70 | 57029 | 9.0904 ng/ml |
| Methamphetamine | 3.237 | 92001 | 2017.91 | 39.2 | 1430.88 | 40710 | 105.3920 ng/ml |
| O-desmethyl-tramadol | 3.379 | 441799 | 506076.69 | 6.6 | 12698.33 | 197810 | 103.4990 ng/ml |
| Phentermine | 3.787 | 39717 | 278.59 | 3.9 | 160.55 | 40889 | 107.2804 ng/ml |
| Benzoylcegonine | 3.876 | 7582 | 579.77 | 8.1 | ∞ | 2537 | 95.7873 ng/ml |
| Ketamine | 4.049 | 135940 | 41552.62 | 36.9 | 877.58 | 65771 | 103.0233 ng/ml |
| Norfentanyl | 4.084 | 19529 | 1398.75 | 37.0 | 319.77 | 84267 | 9.4572 ng/ml |
| Dextroprphan | 4.122 | 38789 | ∞ | 205.9 | 2161.32 | 43108 | 108.0608 ng/ml |

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AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|----------|-------|------------|------------|----------------|
| Lamotrigine | 4.297 | 15666 | 6059.77 | 79.4 | 3844.47 | 65771 | 111.5049 ng/ml |
| Tramadol | 4.242 | 339047 | 34028.47 | 3.5 | 1091.44 | 167461 | 108.3819 ng/ml |
| 7-aminoclonazepam | 4.253 | 61746 | ∞ | 79.4 | 174.28 | 25759 | 109.1058 ng/ml |
| Cocaine | 4.266 | 140119 | 37568.83 | 44.3 | 8465.14 | 137538 | 100.3625 ng/ml |
| Metoprolol | 4.329 | 33649 | ∞ | 95.6 | 18509.17 | 167461 | 99.7791 ng/ml |
| alpha-PVP | 4.366 | 120785 | 42087.25 | 50.9 | 1084.22 | 54963 | 103.5855 ng/ml |
| Doxylamine | 4.542 | 279252 | 364.50 | 97.0 | 1935842.93 | 126217 | 105.0584 ng/ml |
| Mirtazapine | 4.630 | 63036 | 8841.42 | 47.5 | 39084.59 | 54963 | 128.1311 ng/ml |
| Bupropion | 4.789 | 233264 | 64410.21 | 58.9 | 16039.72 | 80548 | 110.7418 ng/ml |
| Meprobamate | 4.899 | 94224 | 3636.28 | 27.4 | 6686.61 | 48399 | 100.7293 ng/ml |
| Zolpidem | 4.924 | 332138 | 75720.82 | 31.9 | 2487.68 | 163453 | 104.0234 ng/ml |
| Norbuprenorphine | 4.988 | 1066 | 320.93 | 101.5 | ∞ | 4556 | 9.8963 ng/ml |
| Venlafaxine | 5.040 | 206562 | 68494.91 | 37.8 | 1872.56 | 101843 | 102.8696 ng/ml |
| Fentanyl | 5.093 | 2844 | 147.18 | 75.3 | 10062.35 | 14811 | 10.1501 ng/ml |
| Trazodone | 5.168 | 41293 | 1116.51 | 80.2 | ∞ | 17699 | 101.7158 ng/ml |
| Mitragynine | 5.228 | 7308 | 10635.58 | 37.2 | ∞ | 26669 | 87.5379 ng/ml |
| Citalopram | 5.229 | 37425 | 470.99 | 42.3 | 809.39 | 16393 | 102.8601 ng/ml |
| EDDP | 5.257 | 45161 | 6219.82 | 41.4 | 2728.92 | 24782 | 93.9490 ng/ml |
| Dextromethorphan | 5.265 | 21032 | 2327.44 | 79.6 | 509.24 | 10490 | 98.0852 ng/ml |
| Diphenhydramine | 5.292 | 111885 | 578.41 | 34.2 | 23866.73 | 57390 | 104.1598 ng/ml |
| Promethazine | 5.541 | 57148 | 37718.72 | 28.0 | 1505.15 | 23410 | 103.3636 ng/ml |
| Quetiapine | 5.557 | 52837 | 15901.15 | 59.4 | 1389.10 | 6995 | 104.4422 ng/ml |
| Clonazepam | 5.600 | 104081 | 9189.19 | 34.8 | 13007.07 | 17235 | 109.1064 ng/ml |
| Cyclobenzaprine | 5.624 | 30393 | ∞ | 11.1 | 512.68 | 12717 | 99.7603 ng/ml |
| Methadone | 5.648 | 56900 | 3971.75 | 53.0 | 1986.74 | 26669 | 107.2424 ng/ml |
| a-hydroxyalprazolam | 5.681 | 68371 | 603.99 | 64.9 | 859.83 | 34888 | 103.4422 ng/ml |
| Carisoprodol | 5.713 | 186385 | 30534.63 | 56.3 | 3658.93 | 96019 | 106.7541 ng/ml |
| Fluoxetine | 5.710 | 31909 | 10112.09 | 10.3 | 7421.72 | 12924 | 97.2960 ng/ml |
| Lorazepam | 5.729 | 174598 | 2459.10 | 56.2 | 181.95 | 17235 | 86.8850 ng/ml |
| Oxazepam | 5.739 | 222448 | 2886.87 | 70.4 | 291.79 | 91977 | 106.3280 ng/ml |
| Alprazolam | 5.758 | 158148 | 1303.93 | 102.7 | 1424.12 | 46383 | 103.0515 ng/ml |
| Sertraline | 5.779 | 19662 | 2445.10 | 91.0 | ∞ | 7755 | 106.4086 ng/ml |
| Temazepam | 5.807 | 284684 | 11966.40 | 30.1 | 396.51 | 130012 | 103.7161 ng/ml |
| Buprenorphine | 5.864 | 3979 | 236.37 | 17.0 | 122.39 | 17233 | 10.3697 ng/ml |
| Nordiazepam | 5.883 | 94428 | 26718.99 | 57.6 | 191501.57 | 31115 | 99.7694 ng/ml |
| Diazepam | 5.944 | 101036 | 439.03 | 87.9 | 1119.51 | 46131 | 106.5076 ng/ml |

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AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
3/14/2019 2:28:44 PM

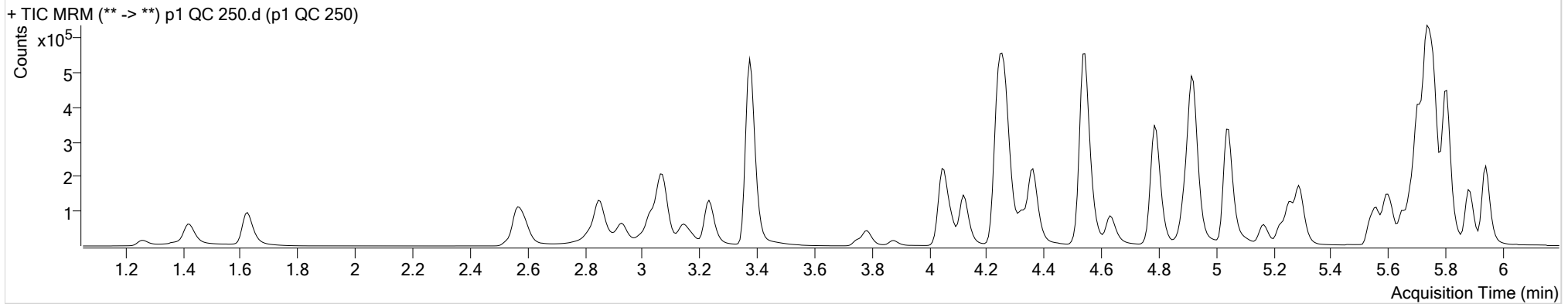
Instrument
Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

FALCO-LCMS (Property ID 069901)
QC
MDQ P1 Combined 011619.m
P1-C6
1
3/13/2019 1:50:12 PM

Data File
Sample
Operator
Comment

p1 QC 250.d
p1 QC 250
Celena Shrum and Tamara Salazar
Worklist 3037

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|----------|------------|------------------------------------|
| Morphine | 1.260 | 35029 | 18241.03 | 24.2 | 326.72 | 1810 | 236.2563 ng/ml |
| Oxymorphone | 1.423 | 135096 | 878.02 | 47.0 | 2148.97 | 19957 | 256.8654 ng/ml |
| Hydromorphone | 1.628 | 141998 | 1599.95 | 76.1 | 621.83 | 23079 | 237.3746 ng/ml |
| Dihydrocodeine | 2.569 | 158733 | 64691.85 | 68.1 | ∞ | 38166 | 238.4131 ng/ml |
| Codeine | 2.597 | 58480 | 1152.58 | 101.8 | 31438.14 | 11157 | 254.8692 ng/ml |
| Oxycodone | 2.847 | 311580 | 2917.23 | 30.6 | 1312.03 | 55062 | 258.8754 ng/ml |
| Noroxycodone | 2.928 | 111469 | ∞ | 51.5 | 1611.88 | 17832 | 247.1045 ng/ml |
| Hydrocodone | 3.032 | 158855 | 2714.54 | 41.7 | 838.73 | 40032 | 252.9853 ng/ml |
| Amphetamine | 3.069 | 259483 | 7629.63 | 51.4 | 26323.87 | 17272 | 238.1116 ng/ml |
| Norhydrocodone | 3.080 | 70642 | 1581.06 | 41.7 | 645.44 | 44508 | 289.9648 ng/ml outside curve range |
| 6-MAM | 3.144 | 41891 | 7603.87 | 71.8 | 1741.42 | 57520 | 22.8199 ng/ml |
| Methamphetamine | 3.237 | 234465 | 3692.57 | 41.4 | 7840.93 | 43000 | 256.2494 ng/ml |
| O-desmethyl-tramadol | 3.379 | 1053398 | 224412.81 | 6.5 | 15563.52 | 195022 | 250.7087 ng/ml |
| Phentermine | 3.787 | 95811 | 1268.25 | 3.9 | 617.25 | 41799 | 254.6503 ng/ml |
| Benzoylcegonine | 3.876 | 19029 | 515.26 | 7.7 | 596.25 | 2565 | 238.9855 ng/ml |
| Ketamine | 4.049 | 321784 | 93136.10 | 37.1 | 1659.05 | 64695 | 248.8094 ng/ml |
| Norfentanyl | 4.084 | 54286 | 17696.19 | 37.3 | 548.98 | 91555 | 24.1208 ng/ml |
| Dextroprphan | 4.122 | 89664 | 2632.29 | 206.5 | 59115.19 | 40706 | 265.2044 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|-----------|-------|-----------|------------|------------------------------------|
| Lamotrigine | 4.290 | 36512 | 6126.94 | 79.4 | 9430.18 | 64695 | 265.2557 ng/ml |
| Tramadol | 4.242 | 812597 | 3469.25 | 3.6 | 740.83 | 168906 | 258.6497 ng/ml |
| 7-aminoclonazepam | 4.253 | 138875 | 11611.41 | 81.2 | 7118.46 | 25888 | 244.9881 ng/ml |
| Cocaine | 4.266 | 341412 | 108774.65 | 43.2 | 68195.07 | 135691 | 248.5444 ng/ml |
| Metoprolol | 4.329 | 83404 | 142744.75 | 94.6 | 17147.98 | 168906 | 245.5267 ng/ml |
| alpha-PVP | 4.366 | 290004 | 1208.22 | 51.8 | 36874.13 | 54332 | 252.2904 ng/ml |
| Doxylamine | 4.542 | 698839 | 218279.11 | 97.3 | 116937.72 | 130723 | 255.2735 ng/ml |
| Mirtazapine | 4.630 | 121972 | 113620.04 | 48.0 | 19115.23 | 54332 | 251.5767 ng/ml |
| Bupropion | 4.789 | 518064 | 63177.24 | 59.3 | 19147.61 | 73434 | 271.1276 ng/ml |
| Meprobamate | 4.899 | 183150 | ∞ | 27.5 | 4177.12 | 45246 | 210.5286 ng/ml |
| Zolpidem | 4.924 | 781980 | 370492.76 | 31.6 | 48219.87 | 158813 | 252.8265 ng/ml |
| Norbuprenorphine | 4.988 | 2097 | 29.61 | 98.4 | 340.31 | 3371 | 27.1095 ng/ml |
| Venlafaxine | 5.046 | 510442 | 3774.15 | 37.0 | 1301.79 | 101763 | 254.7915 ng/ml |
| Fentanyl | 5.100 | 4858 | 1706.16 | 77.1 | 7290.89 | 10486 | 24.7709 ng/ml |
| Trazodone | 5.168 | 77564 | ∞ | 79.5 | ∞ | 13998 | 244.3727 ng/ml |
| Mitragynine | 5.228 | 12985 | 33594.59 | 38.8 | 14406.87 | 19762 | 209.9241 ng/ml |
| Citalopram | 5.229 | 71235 | 2365.49 | 41.2 | 6757.56 | 13095 | 246.6505 ng/ml |
| EDDP | 5.257 | 116047 | 14913.22 | 42.6 | 35539.57 | 25957 | 231.8804 ng/ml |
| Dextromethorphan | 5.265 | 36993 | 4130.53 | 79.1 | 9985.81 | 7682 | 237.7486 ng/ml |
| Diphenhydramine | 5.292 | 213929 | 33057.99 | 34.3 | 3100.38 | 44698 | 257.2967 ng/ml |
| Promethazine | 5.541 | 98758 | 34835.63 | 28.5 | 7733.43 | 16309 | 257.1989 ng/ml |
| Quetiapine | 5.557 | 103792 | 952.45 | 61.0 | 171744.77 | 5576 | 258.7248 ng/ml |
| Clonazepam | 5.600 | 195993 | 2819.83 | 36.0 | 7425.60 | 14310 | 248.7880 ng/ml |
| Cyclobenzaprine | 5.624 | 52166 | 9617.92 | 10.6 | ∞ | 8633 | 253.9547 ng/ml |
| Methadone | 5.648 | 103003 | 684.72 | 51.9 | 11561.02 | 19762 | 263.4683 ng/ml |
| a-hydroxyalprazolam | 5.681 | 141199 | 654.00 | 65.3 | 2043.25 | 30160 | 248.2312 ng/ml |
| Carisoprodol | 5.713 | 370143 | 33047.78 | 57.6 | 1453.24 | 81445 | 250.7247 ng/ml |
| Fluoxetine | 5.710 | 58742 | 4164.65 | 9.5 | ∞ | 9565 | 245.7466 ng/ml |
| Lorazepam | 5.729 | 254888 | 1078.47 | 57.3 | 580.19 | 14310 | 154.0937 ng/ml outside curve range |
| Oxazepam | 5.739 | 343591 | ∞ | 69.4 | ∞ | 62486 | 243.2529 ng/ml |
| Alprazolam | 5.758 | 340015 | 1166.19 | 101.2 | 2519.82 | 40009 | 257.1421 ng/ml |
| Sertraline | 5.779 | 32840 | 3703.61 | 91.4 | 1635.40 | 5437 | 255.5509 ng/ml |
| Temazepam | 5.807 | 591377 | 13919.97 | 29.4 | 1124.60 | 115286 | 243.9514 ng/ml |
| Buprenorphine | 5.864 | 6875 | 426.81 | 17.5 | 1725.05 | 13023 | 23.9064 ng/ml |
| Nordiazepam | 5.883 | 187603 | 12565.11 | 56.5 | 11281.94 | 26720 | 231.5269 ng/ml |
| Diazepam | 5.944 | 217879 | ∞ | 85.7 | ∞ | 41264 | 257.5676 ng/ml |

CS TS

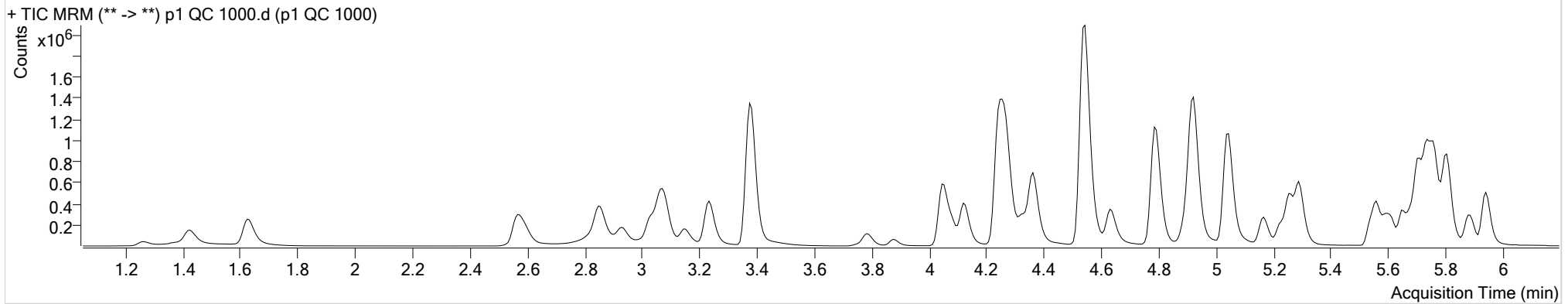
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Calibration Last Update 3/14/2019 2:28:44 PM

| | | | |
|-------------------------|---------------------------------|------------------|---------------------------------|
| Instrument | FALCO-LCMS (Property ID 069901) | Data File | p1 QC 1000.d |
| Type | QC | Sample | p1 QC 1000 |
| Acq. Method | MDQ P1 Combined 011619.m | Operator | Celena Shrum and Tamara Salazar |
| Sample Position | P1-D6 | Comment | Worklist 3037 |
| Injection Volume | 1 | | |
| Acq. Date-Time | 3/13/2019 2:11:08 PM | | |
| Sample Info. | | | |

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|----------|------------|-------------------------------------|
| Morphine | 1.266 | 101376 | 122204.15 | 23.4 | 21280.96 | 1400 | 885.4987 ng/ml |
| Oxymorphone | 1.423 | 403006 | 8186.37 | 48.0 | 1147.11 | 16192 | 945.3755 ng/ml |
| Hydromorphone | 1.628 | 429551 | ∞ | 75.1 | 455.69 | 17440 | 951.8889 ng/ml |
| Dihydrocodeine | 2.569 | 464748 | 130163.18 | 68.4 | 84417.17 | 36072 | 740.1546 ng/ml outside curve range |
| Codeine | 2.597 | 165200 | 631.46 | 99.2 | 15308.76 | 8073 | 998.3922 ng/ml |
| Oxycodone | 2.847 | 983291 | 4560.30 | 32.0 | 7323.32 | 51019 | 884.2846 ng/ml |
| Noroxycodone | 2.928 | 333451 | ∞ | 50.1 | ∞ | 13297 | 993.8161 ng/ml |
| Hydrocodone | 3.032 | 528349 | ∞ | 40.7 | 323.35 | 36189 | 933.1310 ng/ml |
| Amphetamine | 3.069 | 703374 | 13221.16 | 56.9 | 22535.50 | 15271 | 732.4874 ng/ml outside curve range |
| Norhydrocodone | 3.080 | 272573 | 9284.49 | 43.4 | 1243.20 | 39625 | 1245.9944 ng/ml outside curve range |
| 6-MAM | 3.151 | 152971 | 3692.26 | 71.4 | 4558.78 | 52621 | 91.3162 ng/ml |
| Methamphetamine | 3.237 | 794116 | 17370.22 | 39.2 | 24338.74 | 40773 | 918.8742 ng/ml |
| O-desmethyl-tramadol | 3.379 | 3225809 | 652383.33 | 6.6 | 40820.81 | 152399 | 983.3005 ng/ml |
| Phentermine | 3.787 | 294629 | 5734.54 | 3.9 | 1866.81 | 39675 | 827.4365 ng/ml |
| Benzoylcegonine | 3.876 | 79912 | 1792.61 | 7.7 | 2918.43 | 2541 | 1015.8447 ng/ml |
| Ketamine | 4.049 | 1027640 | 429130.53 | 37.3 | 5462.58 | 56884 | 905.3668 ng/ml |
| Norfentanyl | 4.091 | 233010 | 33257.55 | 37.7 | 726.52 | 83441 | 113.4215 ng/ml |
| Dextrorphan | 4.122 | 280998 | 2156.98 | 207.2 | 4476.93 | 32173 | 1052.9711 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



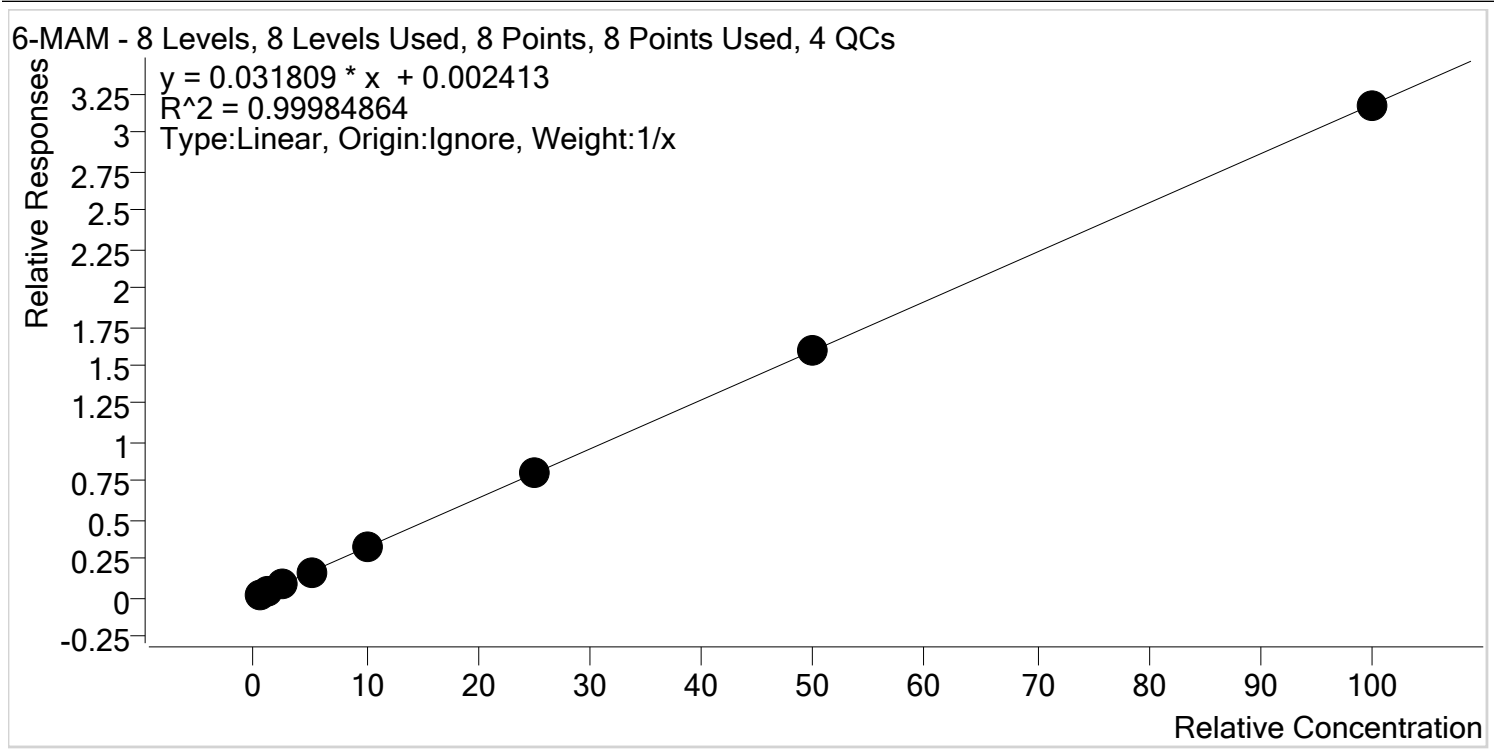
| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. | |
|---------------------|-------|---------|------------|-------|-----------|------------|-----------------|---------------------|
| Lamotrigine | 4.297 | 105166 | 22507.86 | 79.1 | ∞ | 56884 | 870.7176 ng/ml | |
| Tramadol | 4.242 | 2520876 | 203605.20 | 3.5 | 3808.58 | 148077 | 917.3119 ng/ml | |
| 7-aminoclonazepam | 4.253 | 286223 | 57201.40 | 73.8 | 31291.32 | 19195 | 682.1746 ng/ml | outside curve range |
| Cocaine | 4.266 | 1097425 | 305629.80 | 43.4 | 326193.67 | 110201 | 985.0631 ng/ml | |
| Metoprolol | 4.329 | 261316 | 19263.13 | 94.6 | ∞ | 148077 | 878.0433 ng/ml | |
| alpha-PVP | 4.366 | 997681 | 3355.65 | 51.3 | 22649.71 | 47011 | 1004.5535 ng/ml | |
| Doxylamine | 4.542 | 2769330 | 471054.45 | 97.8 | 350350.29 | 136275 | 973.1856 ng/ml | |
| Mirtazapine | 4.630 | 501374 | 17133.68 | 47.4 | 102543.24 | 47011 | 1198.1916 ng/ml | |
| Bupropion | 4.789 | 1777080 | 1885559.03 | 58.5 | 48699.57 | 64712 | 1058.0920 ng/ml | |
| Meprobamate | 4.899 | 401953 | 34874.56 | 27.3 | 251.29 | 37766 | 555.2058 ng/ml | outside curve range |
| Zolpidem | 4.924 | 2622113 | 851267.21 | 31.1 | 97247.50 | 147802 | 912.3213 ng/ml | |
| Norbuprenorphine | 4.988 | 7450 | 121.79 | 95.3 | 6359.52 | 3060 | 107.4720 ng/ml | |
| Venlafaxine | 5.046 | 1861752 | 357095.78 | 37.7 | 19260.89 | 95011 | 996.1261 ng/ml | |
| Fentanyl | 5.100 | 18318 | 793.74 | 73.7 | 22350.18 | 9428 | 104.5166 ng/ml | |
| Trazodone | 5.168 | 355360 | ∞ | 79.1 | ∞ | 15700 | 1004.4564 ng/ml | |
| Mitragynine | 5.228 | 46563 | 67797.74 | 37.2 | 289734.58 | 18755 | 793.2168 ng/ml | |
| Citalopram | 5.229 | 271330 | ∞ | 41.6 | 946.30 | 12167 | 1014.5683 ng/ml | |
| EDDP | 5.257 | 556710 | 29769.34 | 41.6 | 935.23 | 30723 | 942.8004 ng/ml | |
| Dextromethorphan | 5.265 | 131079 | 2133.12 | 78.8 | 3150.15 | 6792 | 957.5190 ng/ml | |
| Diphenhydramine | 5.292 | 824231 | 141787.21 | 34.2 | 27891.63 | 43008 | 1033.5410 ng/ml | |
| Promethazine | 5.541 | 347155 | 50448.67 | 29.0 | 3481.75 | 14308 | 1032.1578 ng/ml | |
| Quetiapine | 5.557 | 443017 | 370416.87 | 60.3 | ∞ | 6019 | 1025.7664 ng/ml | |
| Clonazepam | 5.600 | 418026 | 4424.25 | 35.0 | 3914.17 | 9038 | 842.7065 ng/ml | |
| Cyclobenzaprine | 5.624 | 182442 | 27401.65 | 10.5 | 2986.19 | 7874 | 976.8960 ng/ml | |
| Methadone | 5.648 | 389258 | 5150.83 | 52.5 | 17514.15 | 18755 | 1052.2018 ng/ml | |
| a-hydroxyalprazolam | 5.681 | 309238 | ∞ | 65.1 | 1662.95 | 19000 | 864.9670 ng/ml | |
| Carisoprodol | 5.713 | 842219 | 272432.75 | 57.2 | 31353.45 | 50579 | 920.2042 ng/ml | |
| Fluoxetine | 5.710 | 163220 | ∞ | 9.7 | 9167.21 | 6660 | 988.2025 ng/ml | |
| Lorazepam | 5.729 | 405909 | 38483.14 | 56.4 | 1231.55 | 9038 | 391.2239 ng/ml | outside curve range |
| Oxazepam | 5.739 | 437236 | 7753.64 | 69.1 | 2736.03 | 22206 | 874.1386 ng/ml | |
| Alprazolam | 5.758 | 829466 | ∞ | 100.9 | 3043.13 | 25936 | 968.2085 ng/ml | |
| Sertraline | 5.779 | 89039 | 352.38 | 92.0 | 336.88 | 3799 | 995.8018 ng/ml | |
| Temazepam | 5.807 | 1354285 | 1074.35 | 29.0 | 620.84 | 72443 | 890.9861 ng/ml | |
| Buprenorphine | 5.864 | 24019 | 1827.72 | 16.9 | 28622.93 | 11369 | 96.1301 ng/ml | |
| Nordiazepam | 5.890 | 393364 | 61911.55 | 57.6 | 19231.38 | 14853 | 874.8838 ng/ml | |
| Diazepam | 5.944 | 563641 | 6845.37 | 85.1 | 10014.04 | 28134 | 978.8988 ng/ml | |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6



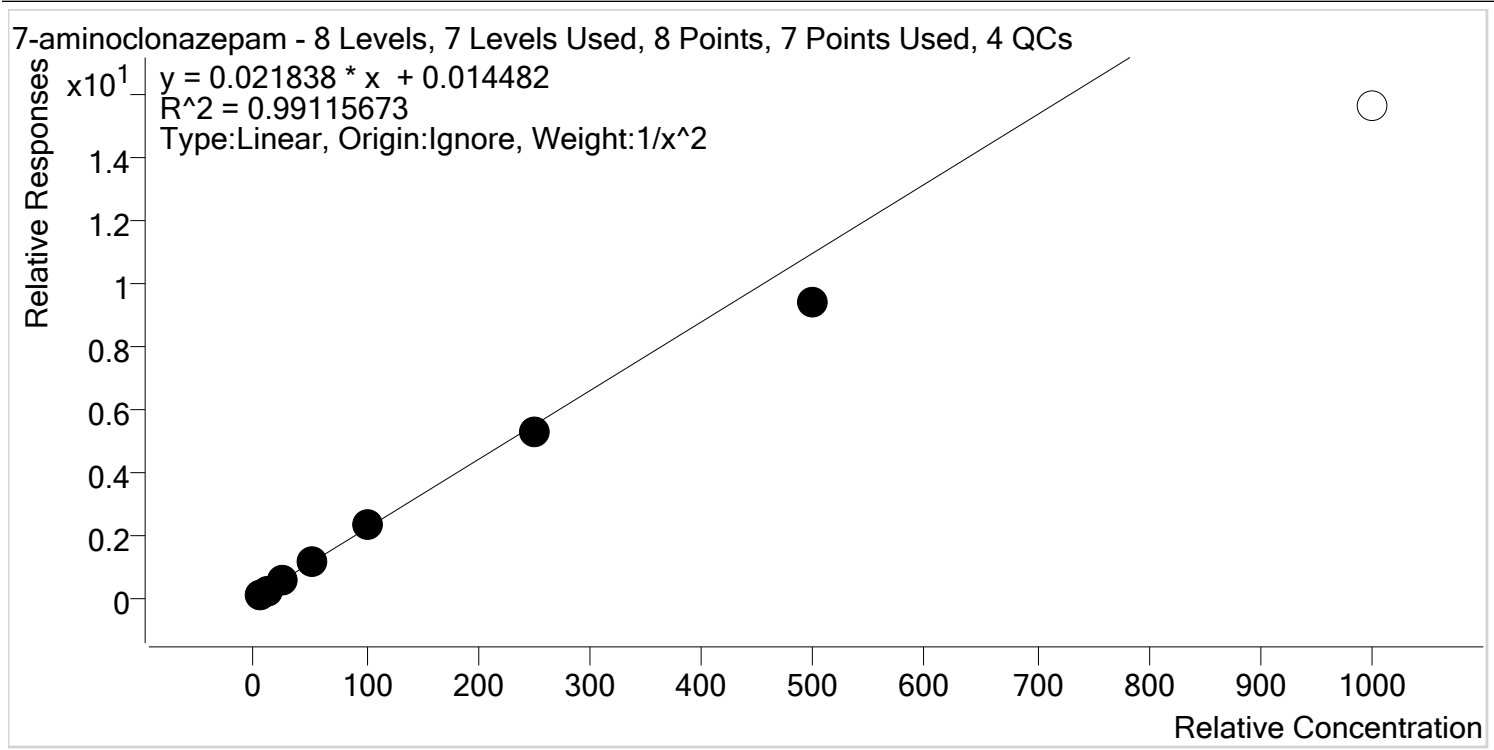
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 0.5 | 0.5 | 91.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 1.0 | 103.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.5 | 101.0 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 5.0 | 100.1 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 10.4 | 104.4 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 25.1 | 100.5 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 49.7 | 99.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 99.7 | 99.7 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



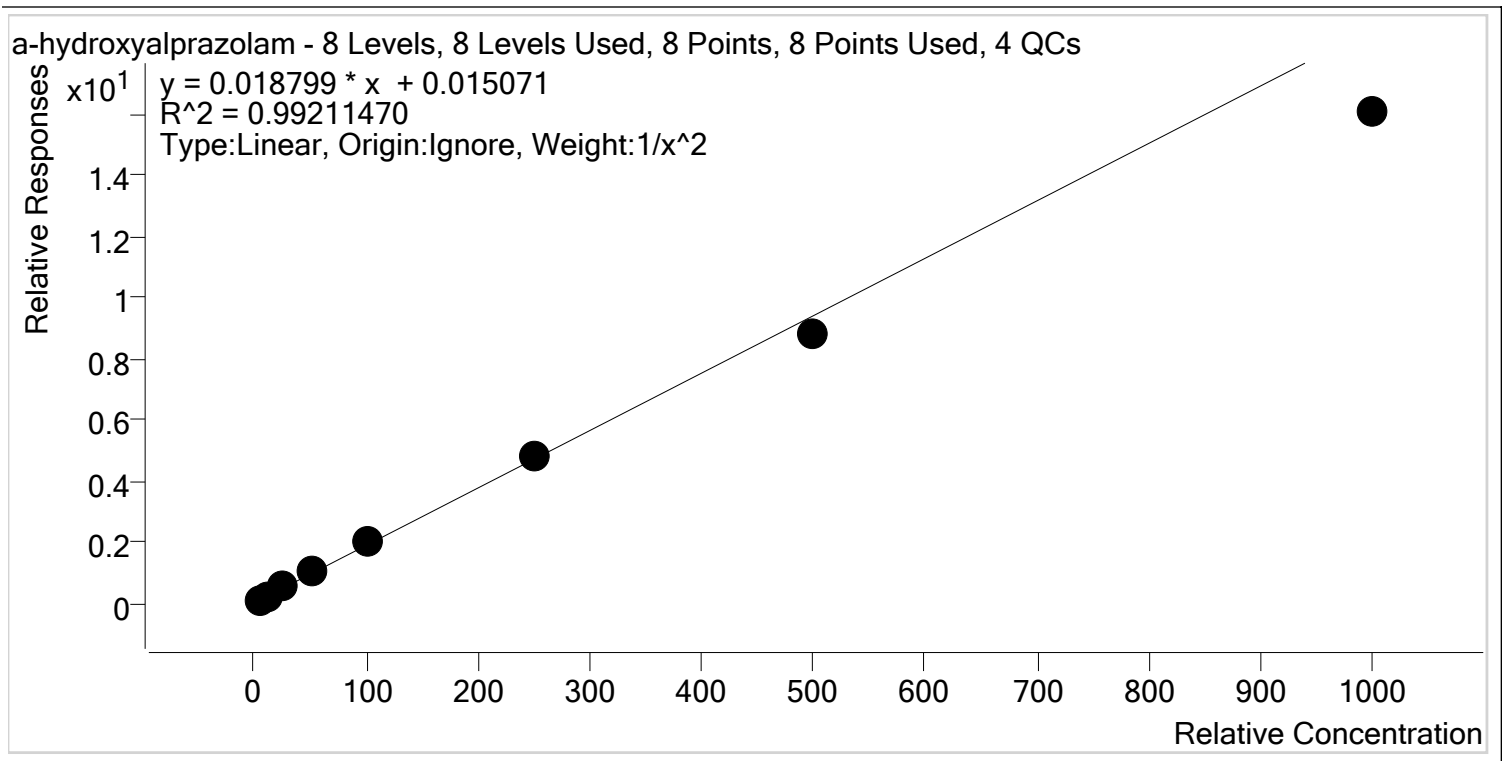
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 94.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.8 | 107.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.2 | 104.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.7 | 105.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.4 | 105.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 240.2 | 96.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 430.1 | 86.0 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 712.6 | 71.3 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.5 | 106.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 53.5 | 106.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 107.9 | 107.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.2 | 102.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 465.7 | 93.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 854.9 | 85.5 |

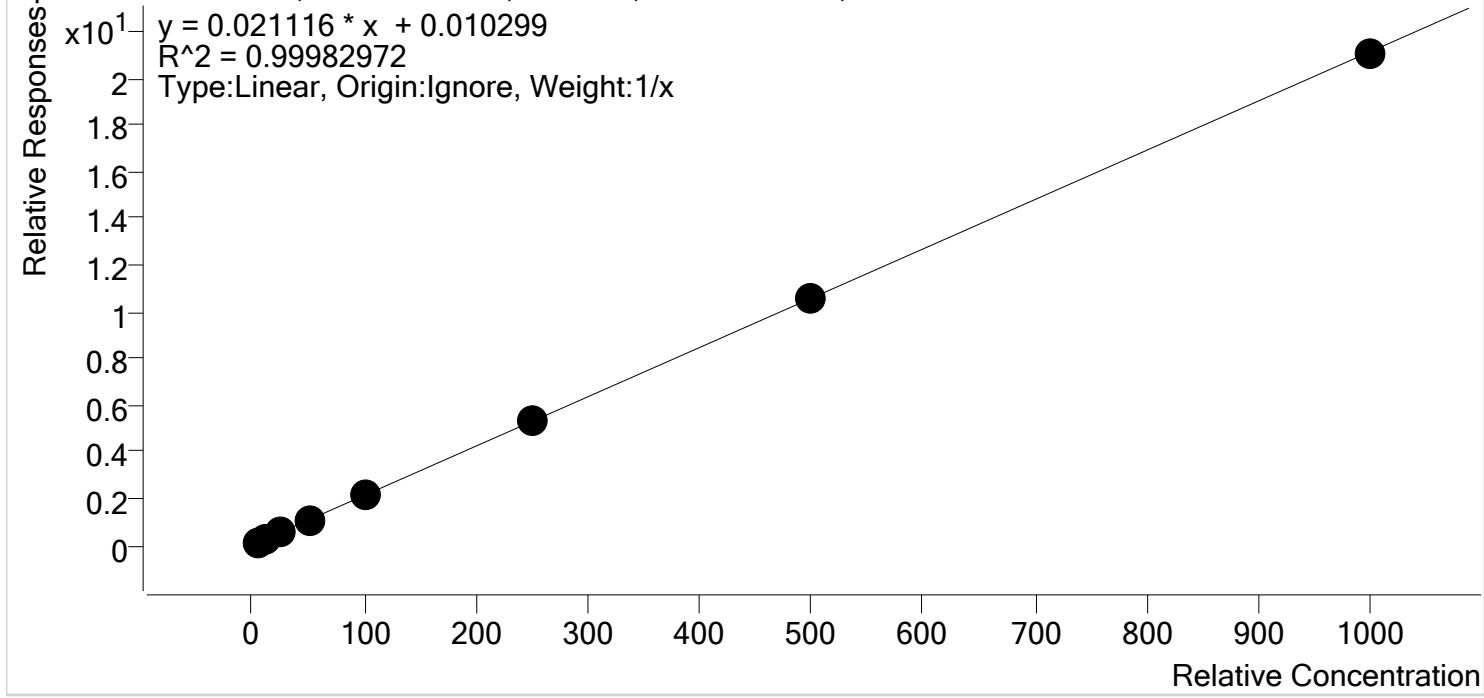
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

alpha-PVP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



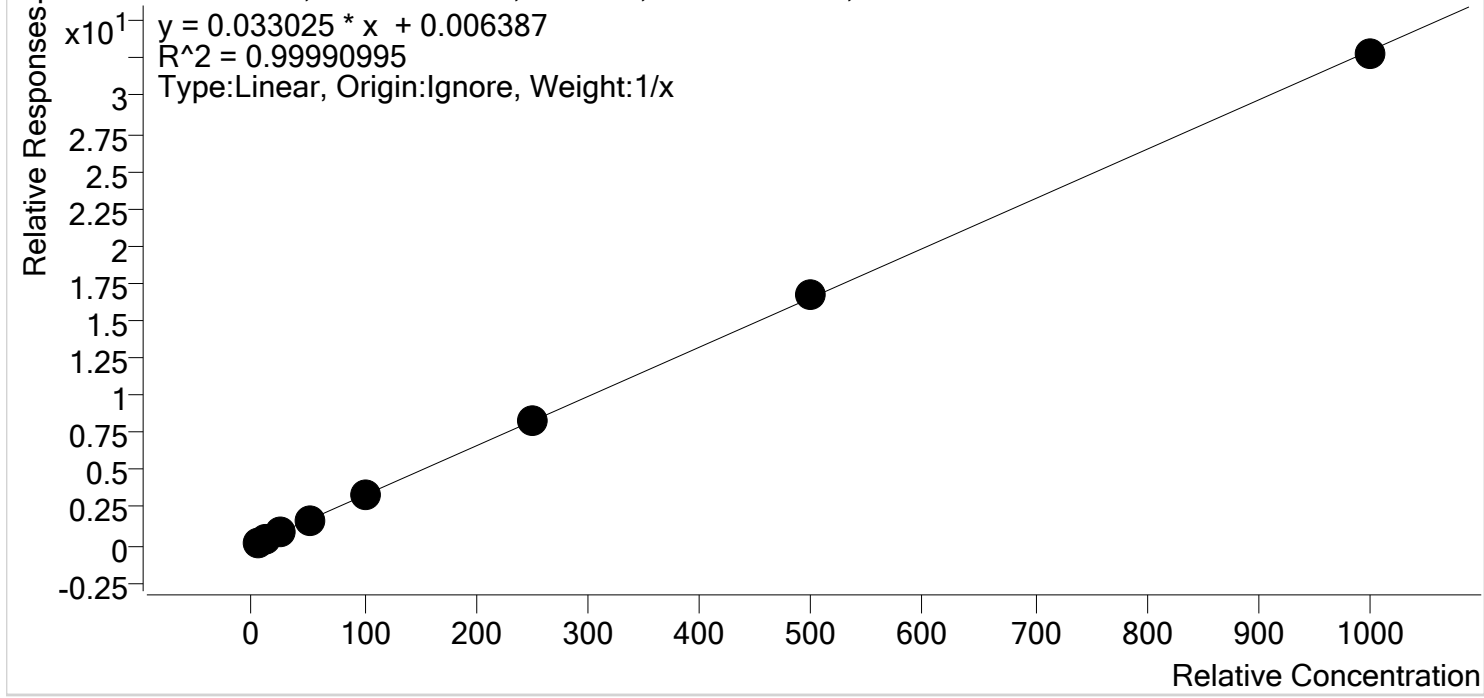
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 99.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.1 | 100.5 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.5 | 99.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 104.5 | 104.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 253.4 | 101.4 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 497.8 | 99.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 994.8 | 99.5 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



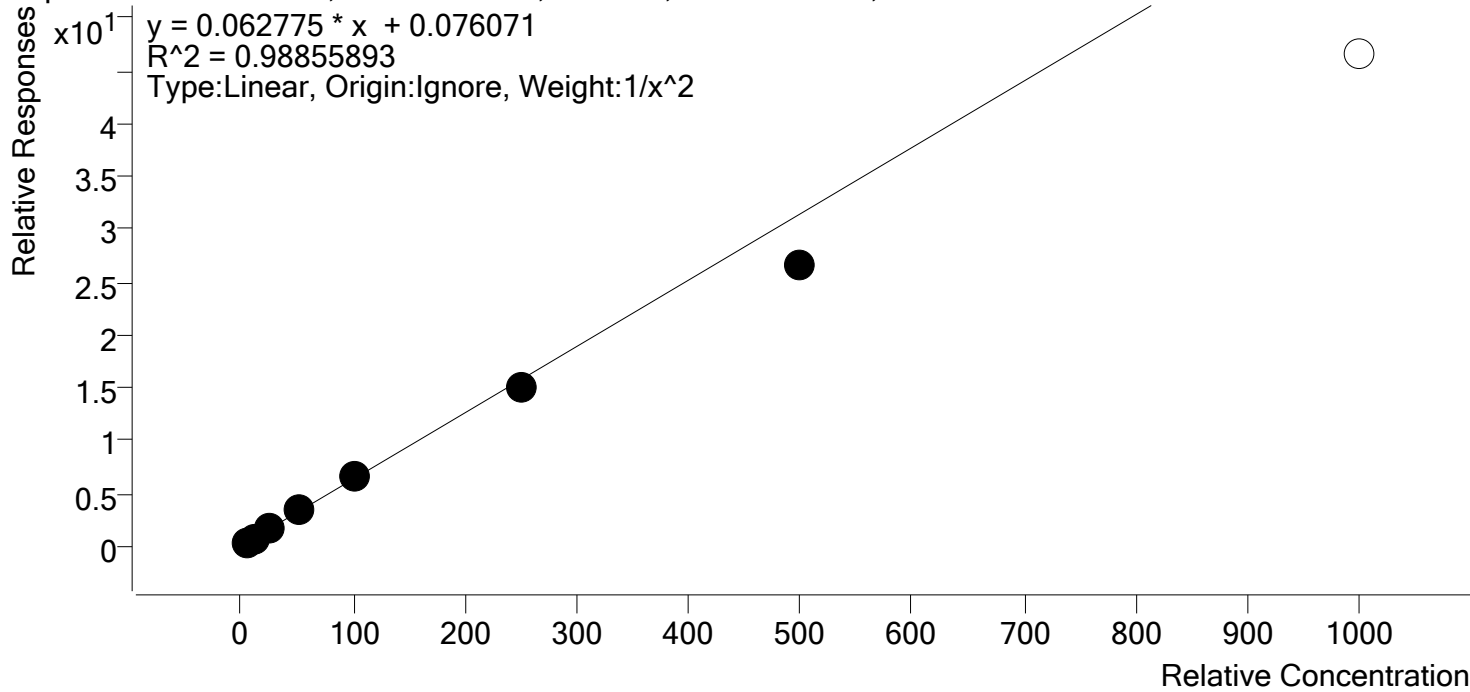
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 98.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 100.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.3 | 101.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.2 | 98.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.0 | 101.0 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 253.7 | 101.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 503.2 | 100.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 992.6 | 99.3 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

Amphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 93.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 11.0 | 109.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.4 | 101.7 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 53.7 | 107.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 106.8 | 106.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 239.6 | 95.8 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 422.3 | 84.5 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 740.5 | 74.0 |

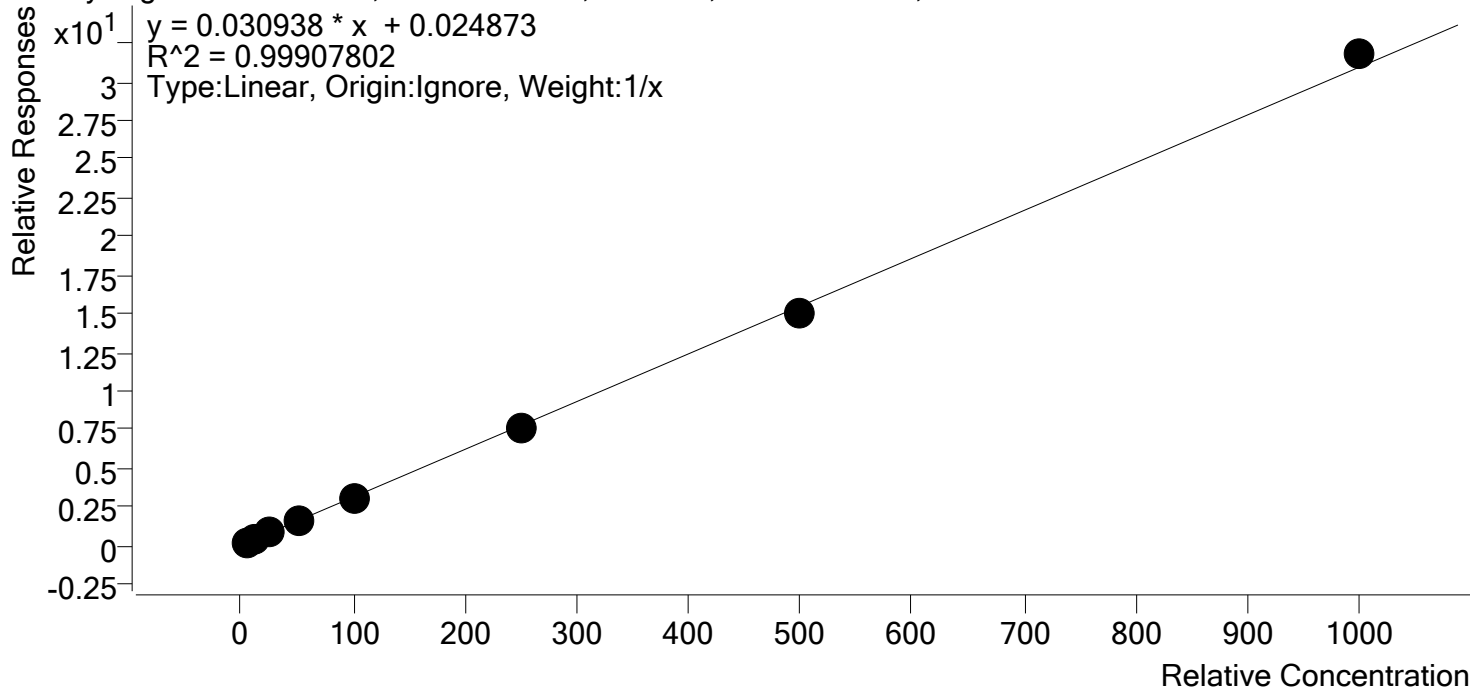
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

Benzoylecgonine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



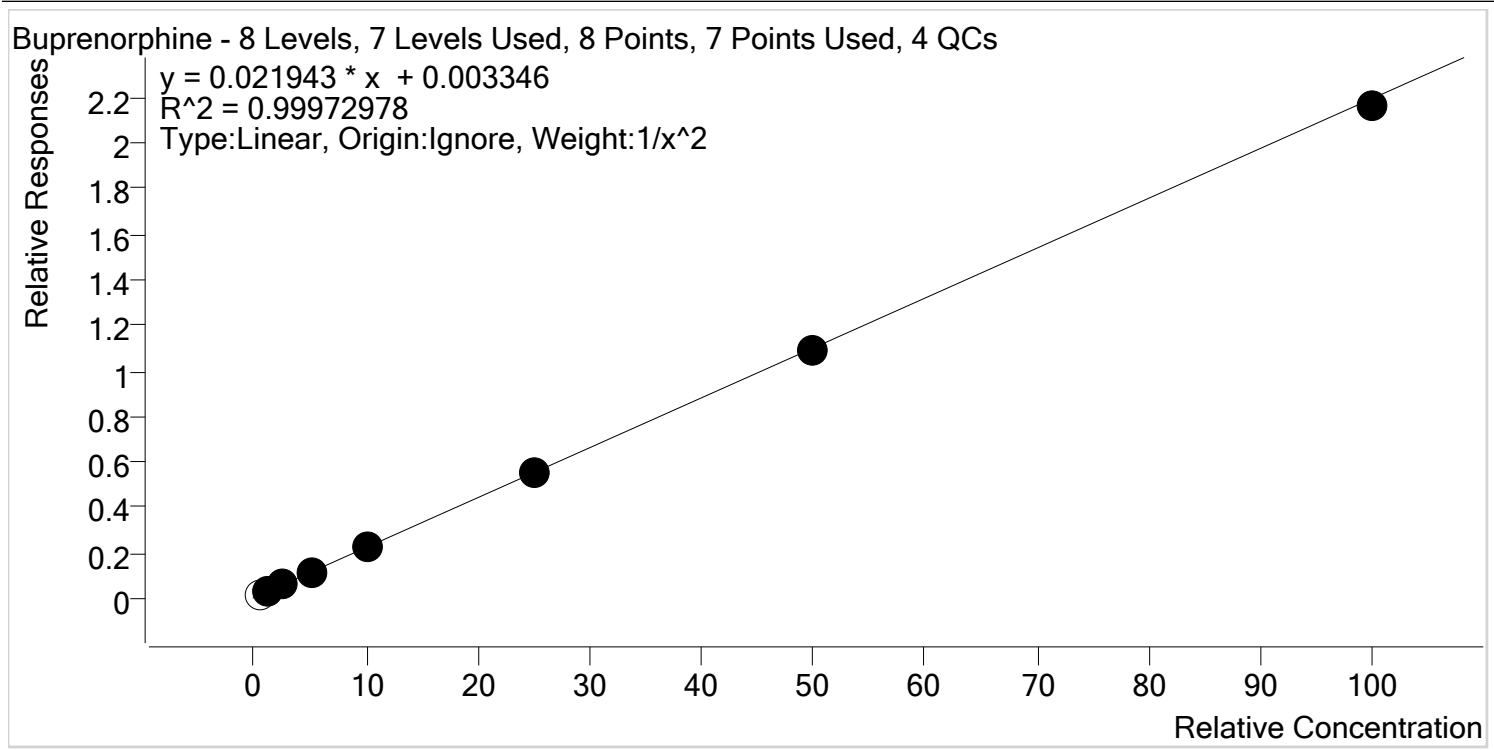
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 5.3 | 105.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 103.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.8 | 99.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 48.6 | 97.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 98.1 | 98.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 242.9 | 97.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 482.8 | 96.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1027.2 | 102.7 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4



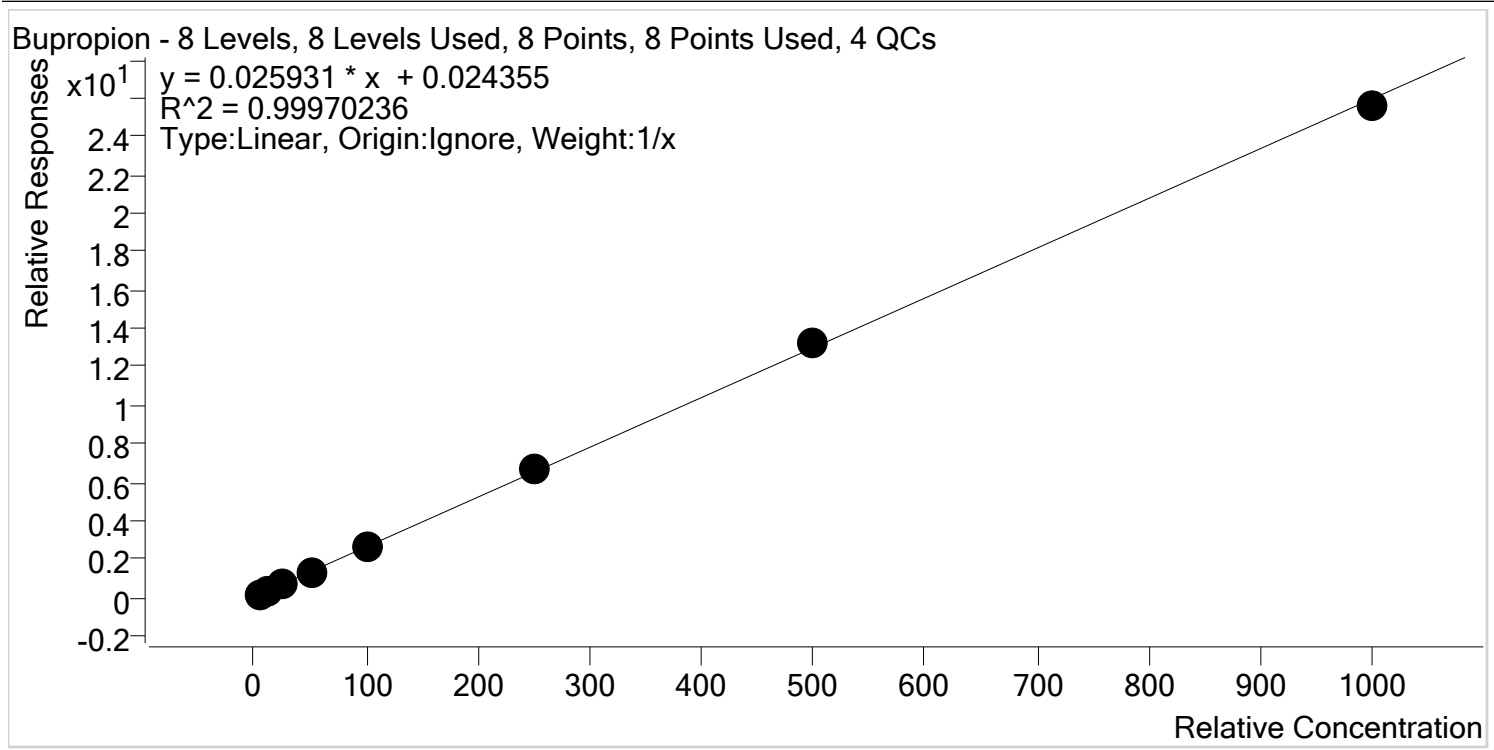
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | x | 0.5 | 0.6 | 118.2 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 1.0 | 100.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.5 | 99.0 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 5.0 | 101.0 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 10.3 | 102.5 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 25.0 | 100.1 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 49.5 | 99.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 98.5 | 98.5 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.6 | 92.6 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.0 | 100.1 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.3 | 101.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.8 | 101.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 103.1 | 103.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 254.4 | 101.8 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 506.7 | 101.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 985.1 | 98.5 |

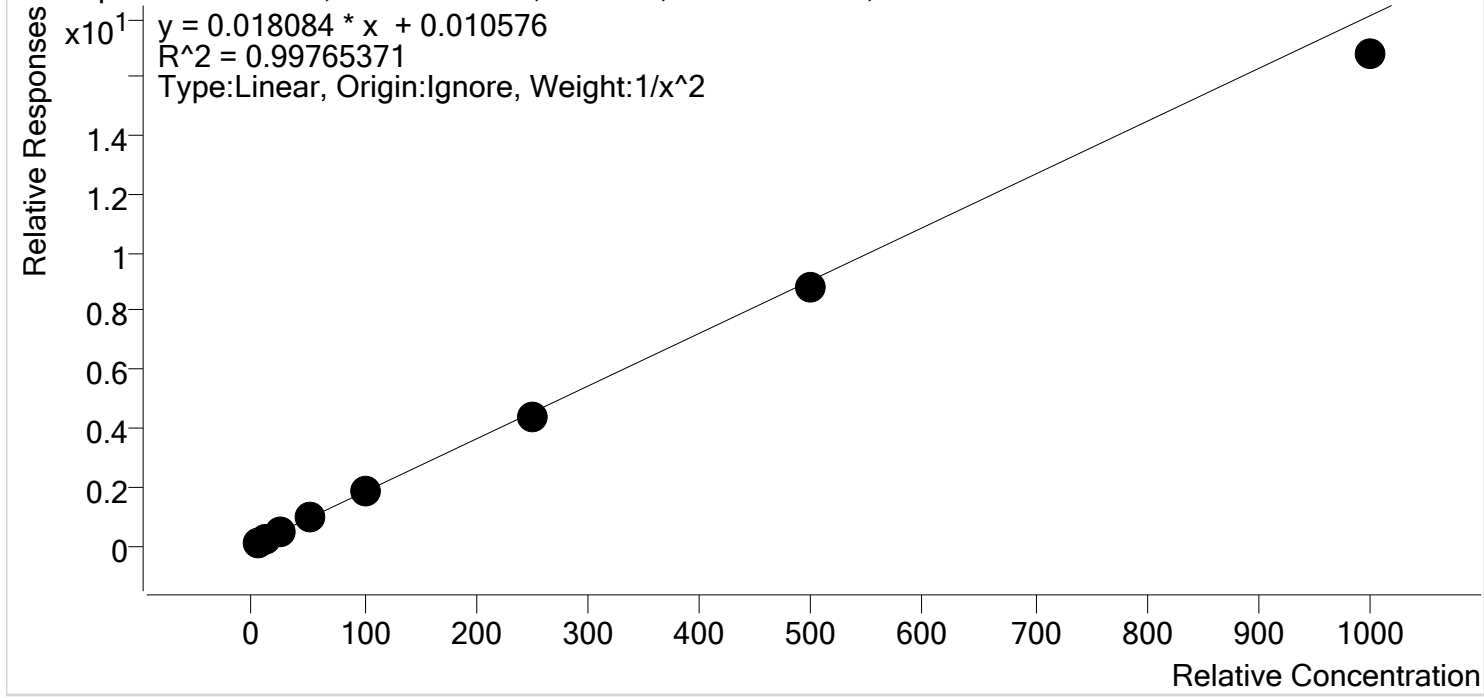
g TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

Carisoprodol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



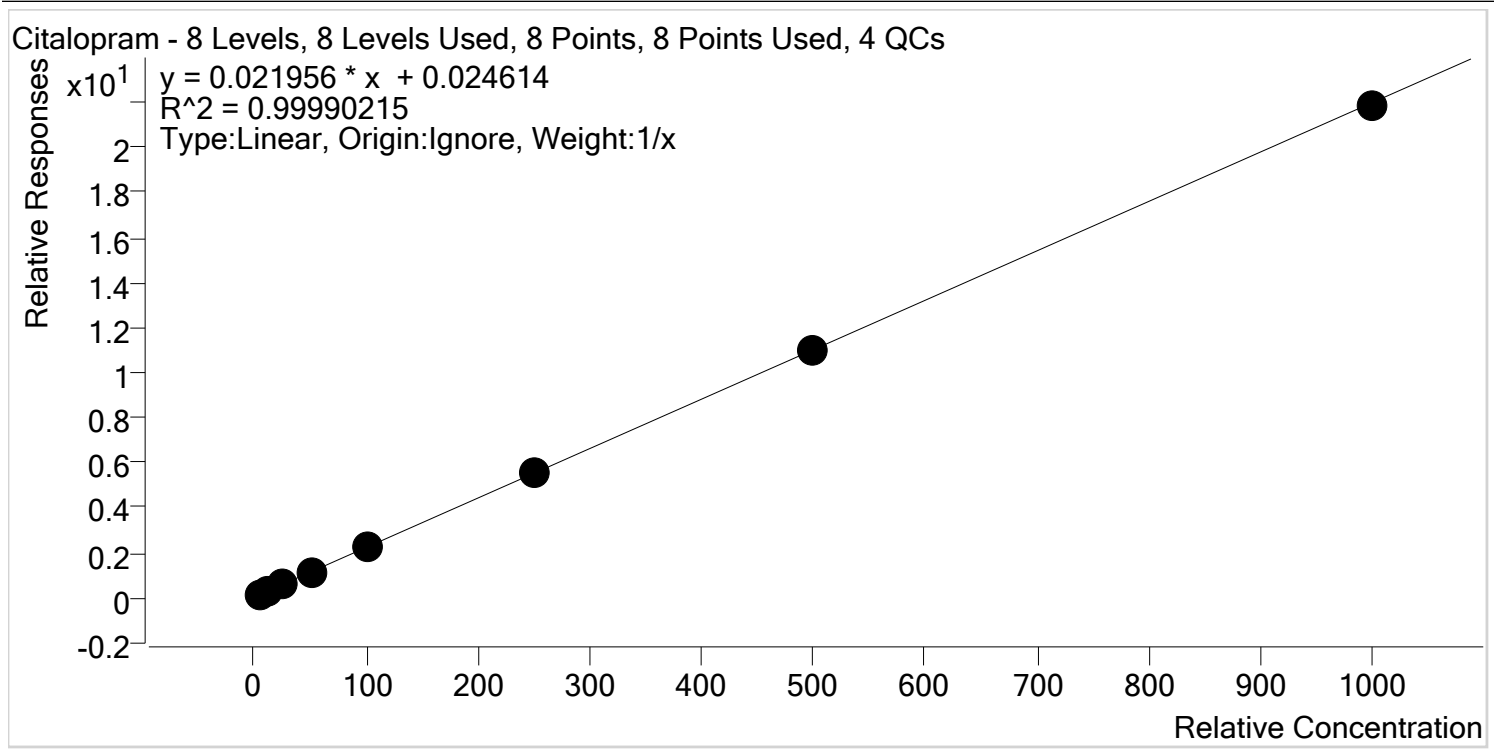
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.2 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 103.1 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.9 | 103.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.2 | 104.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 103.5 | 103.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 245.3 | 98.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 487.4 | 97.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 927.1 | 92.7 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6



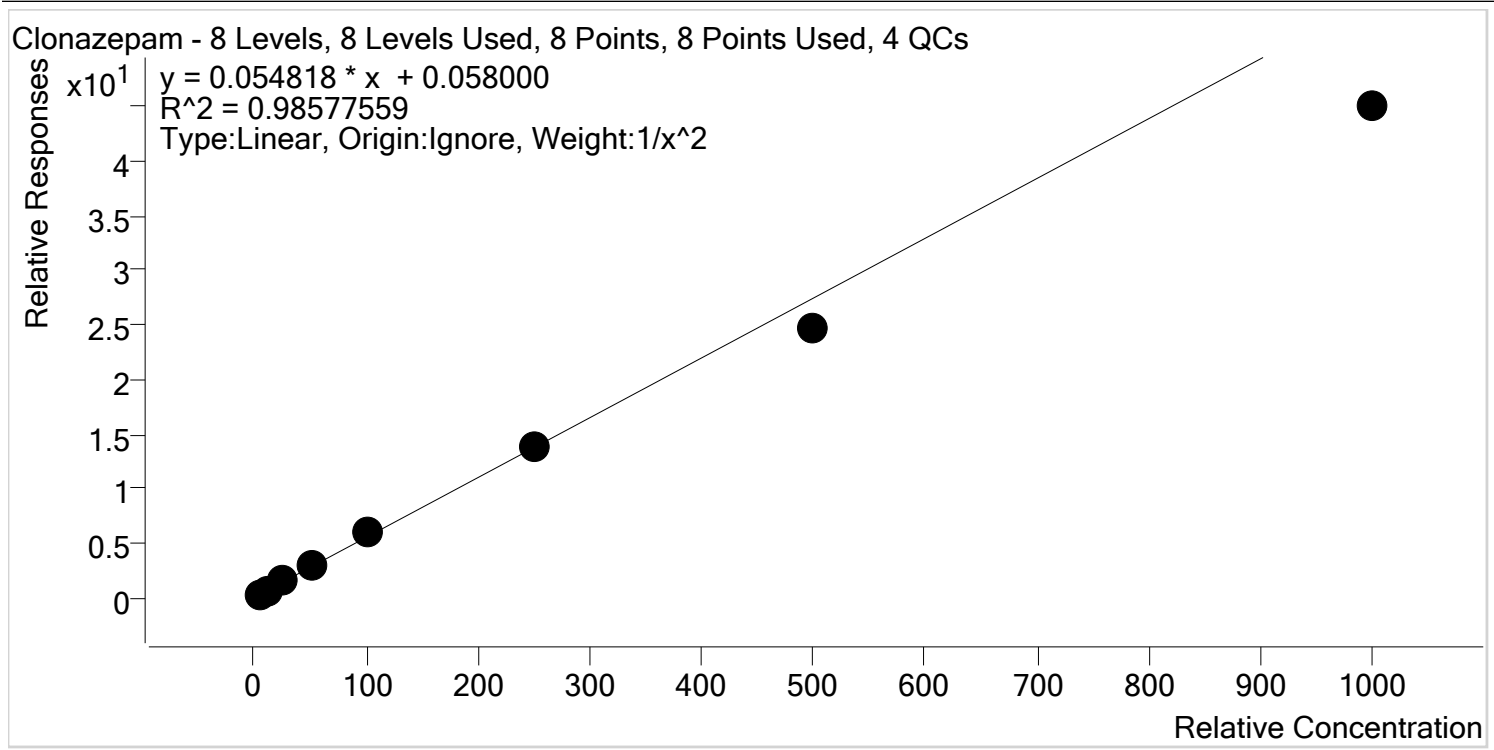
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 5.0 | 100.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.7 | 97.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.0 | 100.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.2 | 100.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.6 | 100.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.0 | 102.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 501.8 | 100.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 992.7 | 99.3 |

g TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4



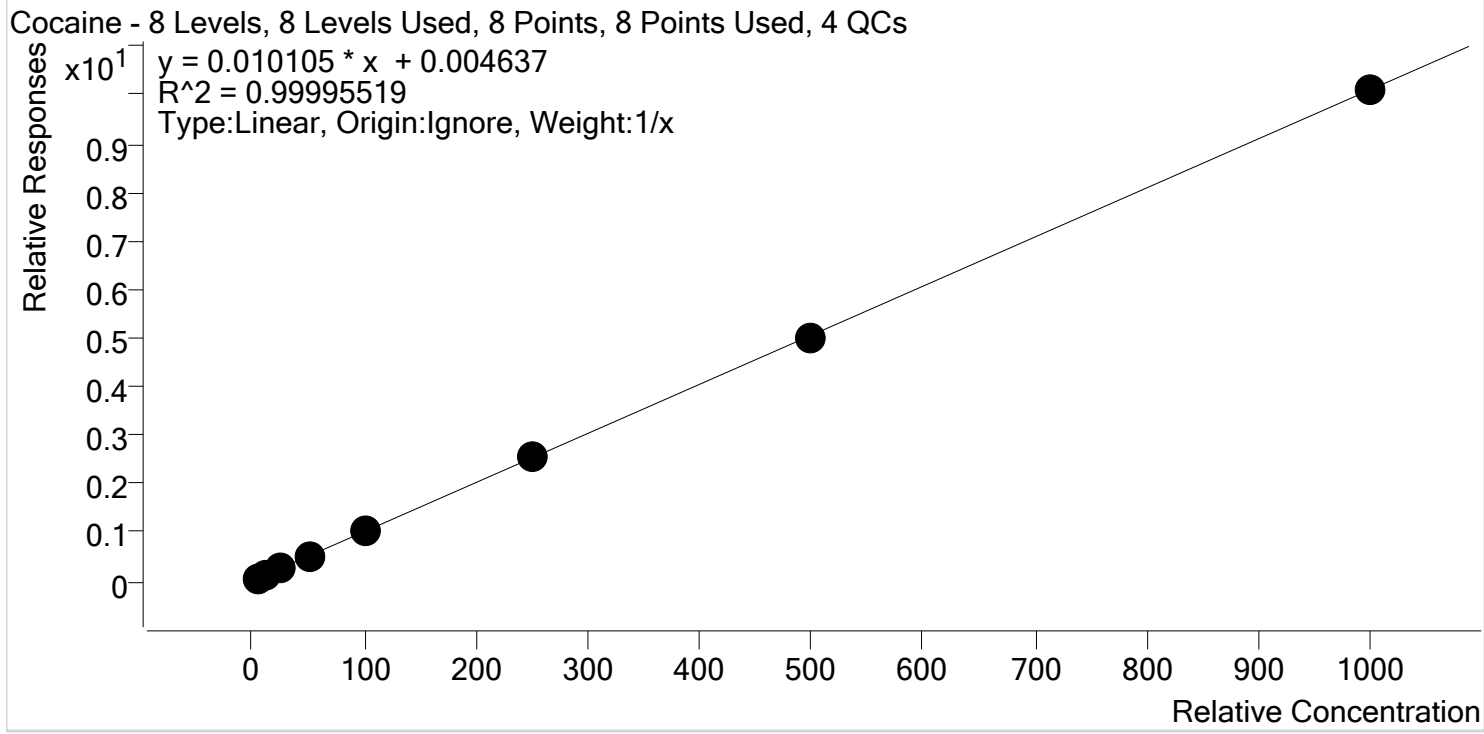
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 93.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.7 | 107.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.9 | 107.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.6 | 109.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 109.4 | 109.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.9 | 101.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 447.6 | 89.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 820.9 | 82.1 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3



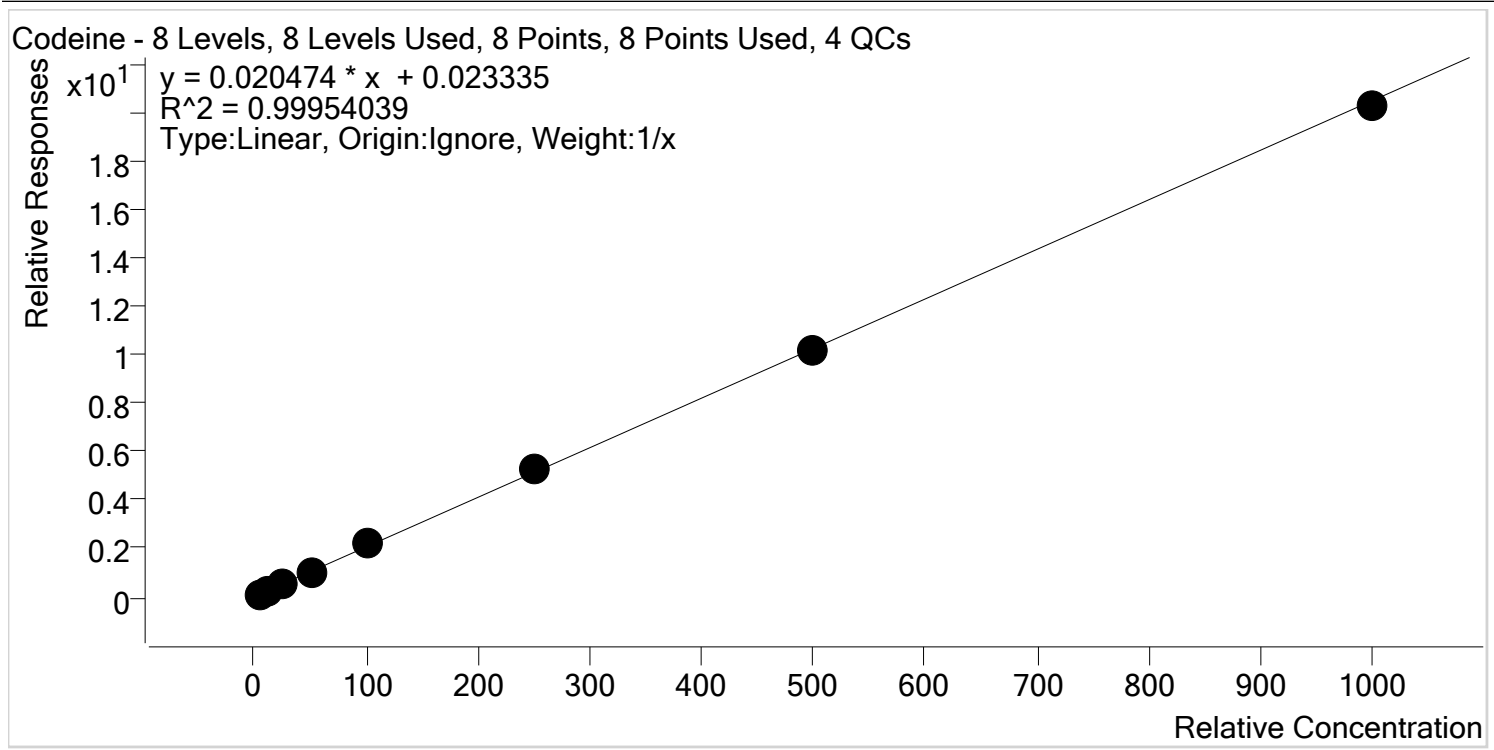
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 101.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.1 | 100.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.8 | 99.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.2 | 101.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 253.0 | 101.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 497.0 | 99.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 999.0 | 99.9 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.2 | 84.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 102.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.9 | 103.6 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.2 | 102.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 106.2 | 106.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.4 | 102.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 498.0 | 99.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 988.8 | 98.9 |

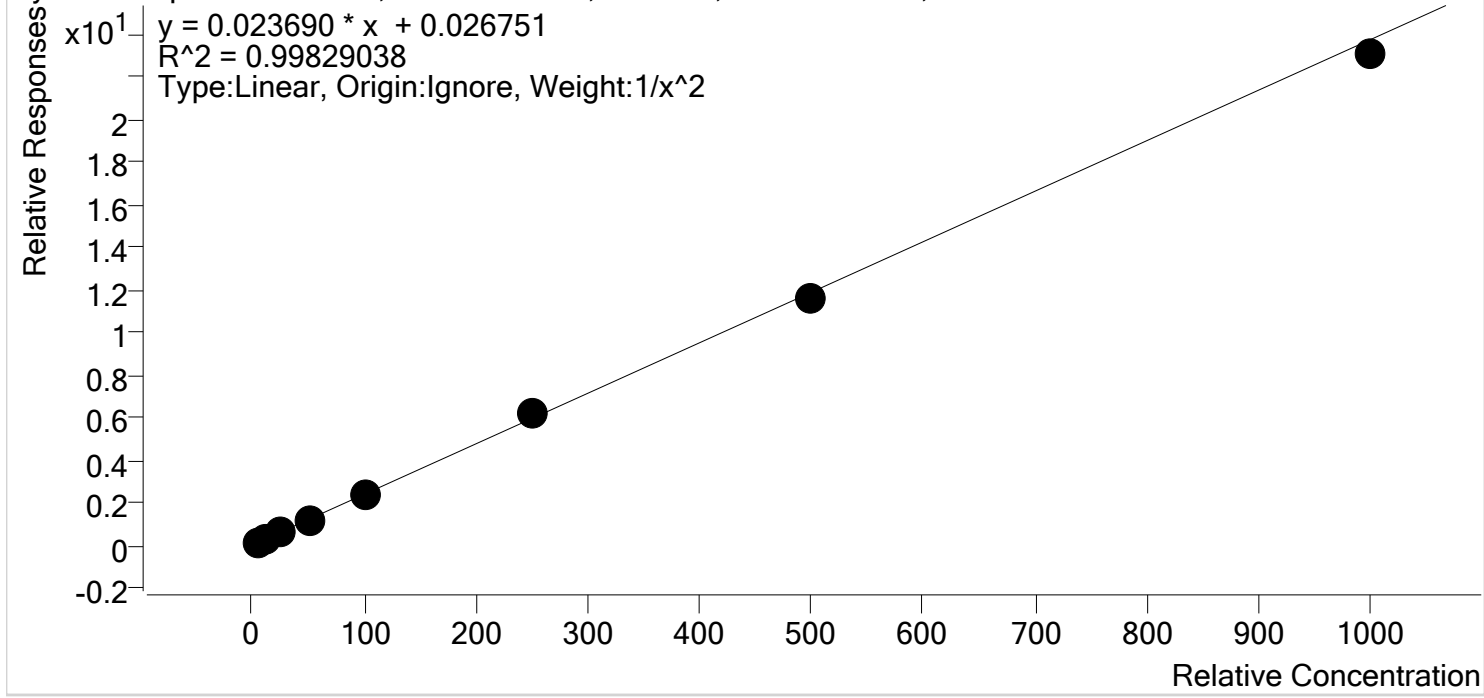
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

Cyclobenzaprine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



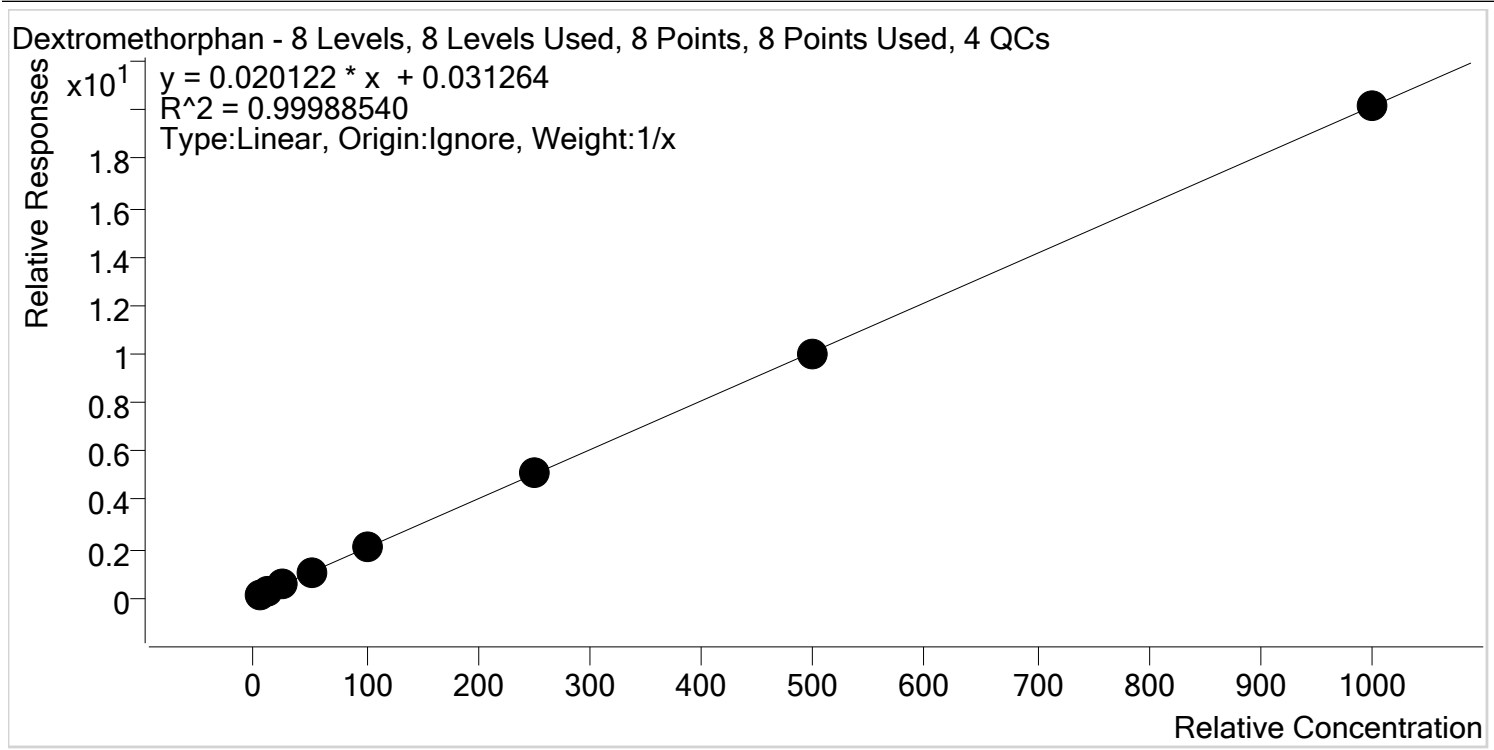
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 97.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.7 | 107.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.2 | 96.7 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.7 | 101.3 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 100.1 | 100.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 256.9 | 102.7 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 490.1 | 98.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 971.2 | 97.1 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3



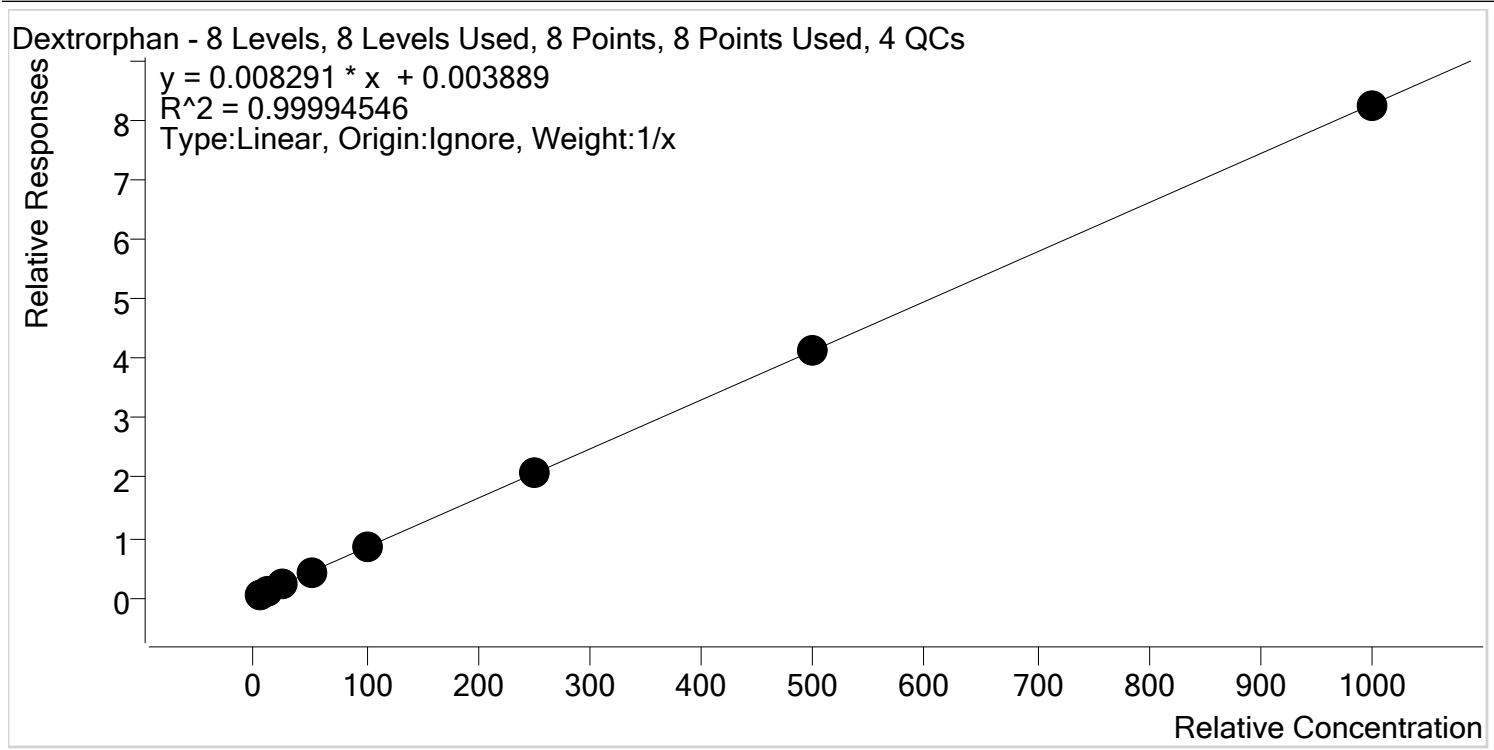
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 5.4 | 108.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.3 | 92.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.3 | 97.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.9 | 99.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 102.2 | 102.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.3 | 100.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 496.5 | 99.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1000.2 | 100.0 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

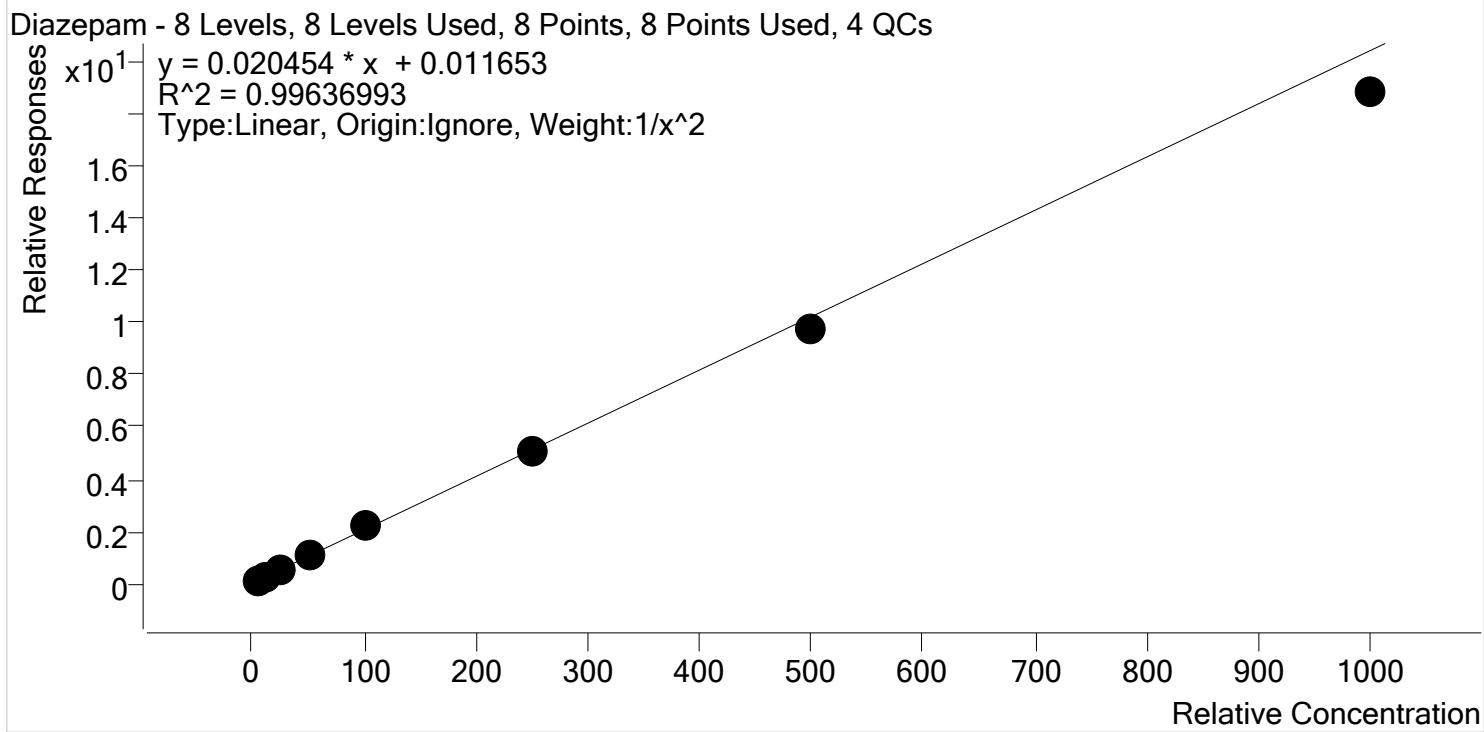


| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.2 | 101.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.2 | 100.9 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.7 | 99.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 102.3 | 102.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.8 | 100.7 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 499.8 | 100.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 996.2 | 99.6 |



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5



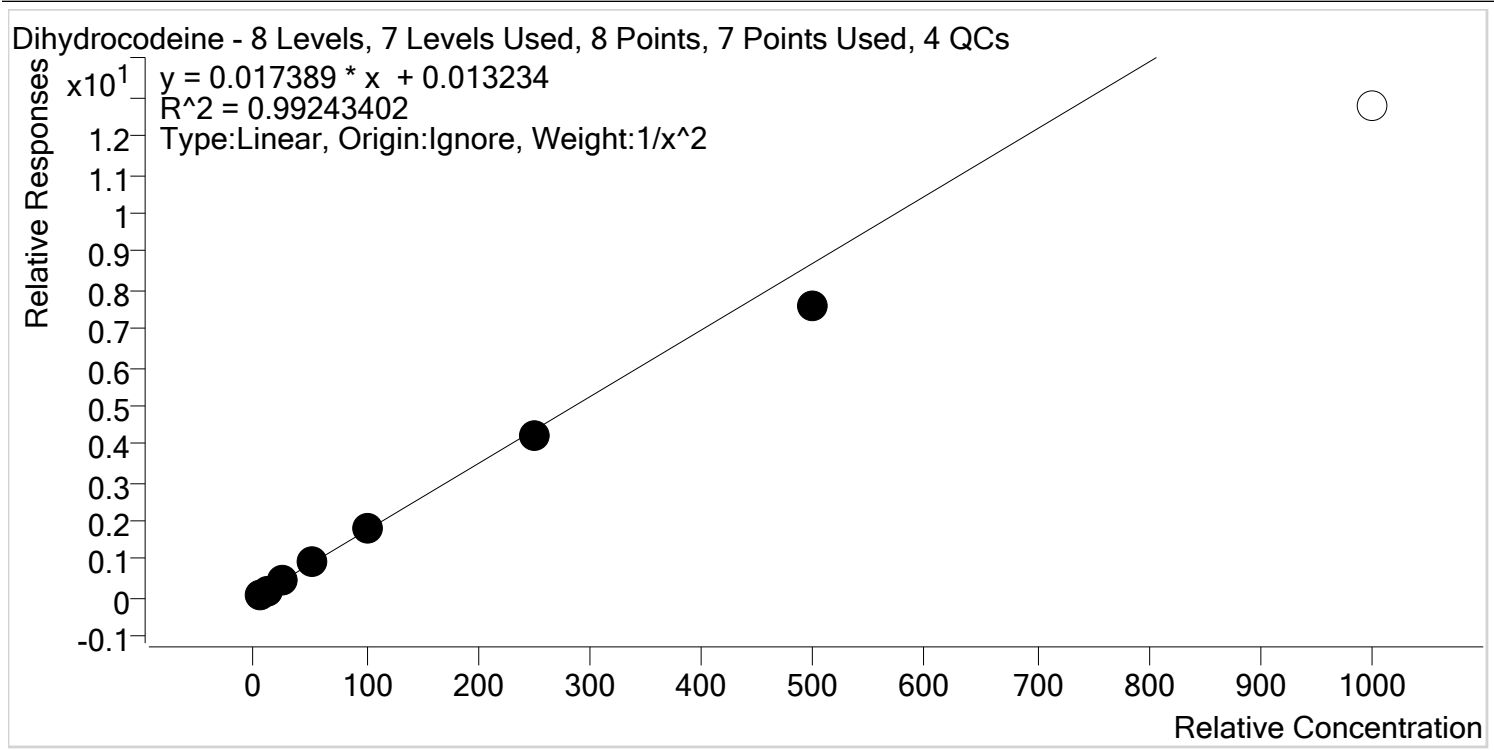
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.7 | 107.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.0 | 100.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.3 | 104.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 104.7 | 104.7 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 250.2 | 100.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 477.2 | 95.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 921.8 | 92.2 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 104.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.6 | 106.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.3 | 104.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.8 | 105.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 240.0 | 96.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 433.7 | 86.7 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 734.1 | 73.4 |

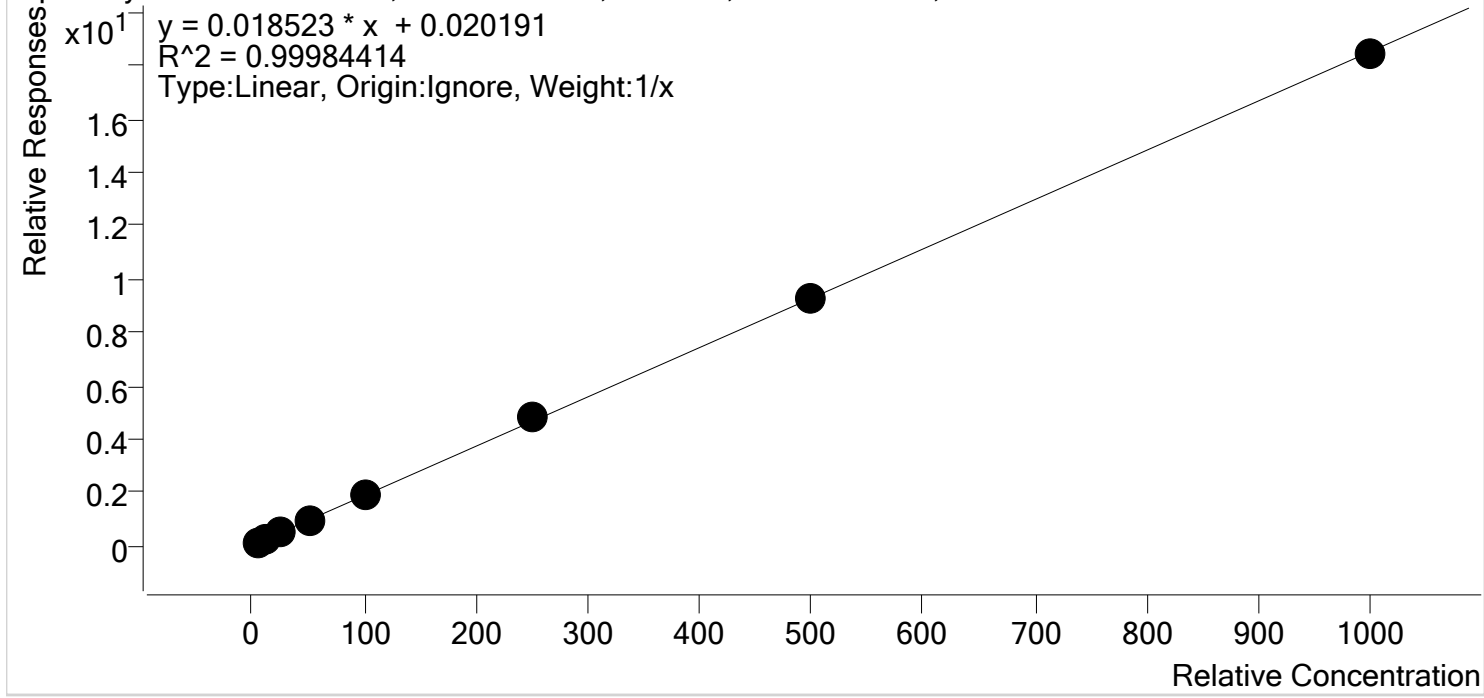
CS
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 5.1 | 102.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.8 | 97.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.3 | 97.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.5 | 98.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.4 | 101.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 256.9 | 102.8 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 498.3 | 99.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 994.7 | 99.5 |

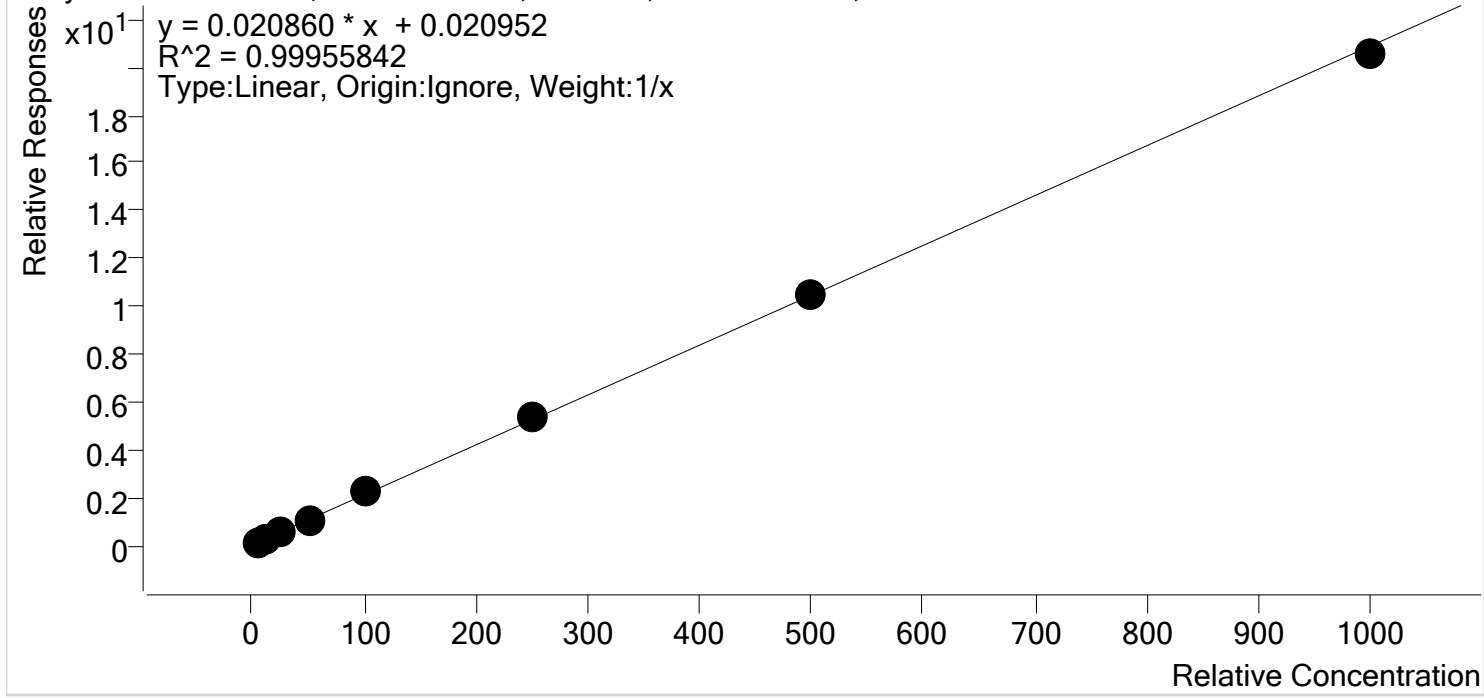
CS
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

Doxylamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.4 | 88.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 100.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.6 | 102.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.0 | 101.9 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.0 | 105.0 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.3 | 102.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 505.0 | 101.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 983.6 | 98.4 |

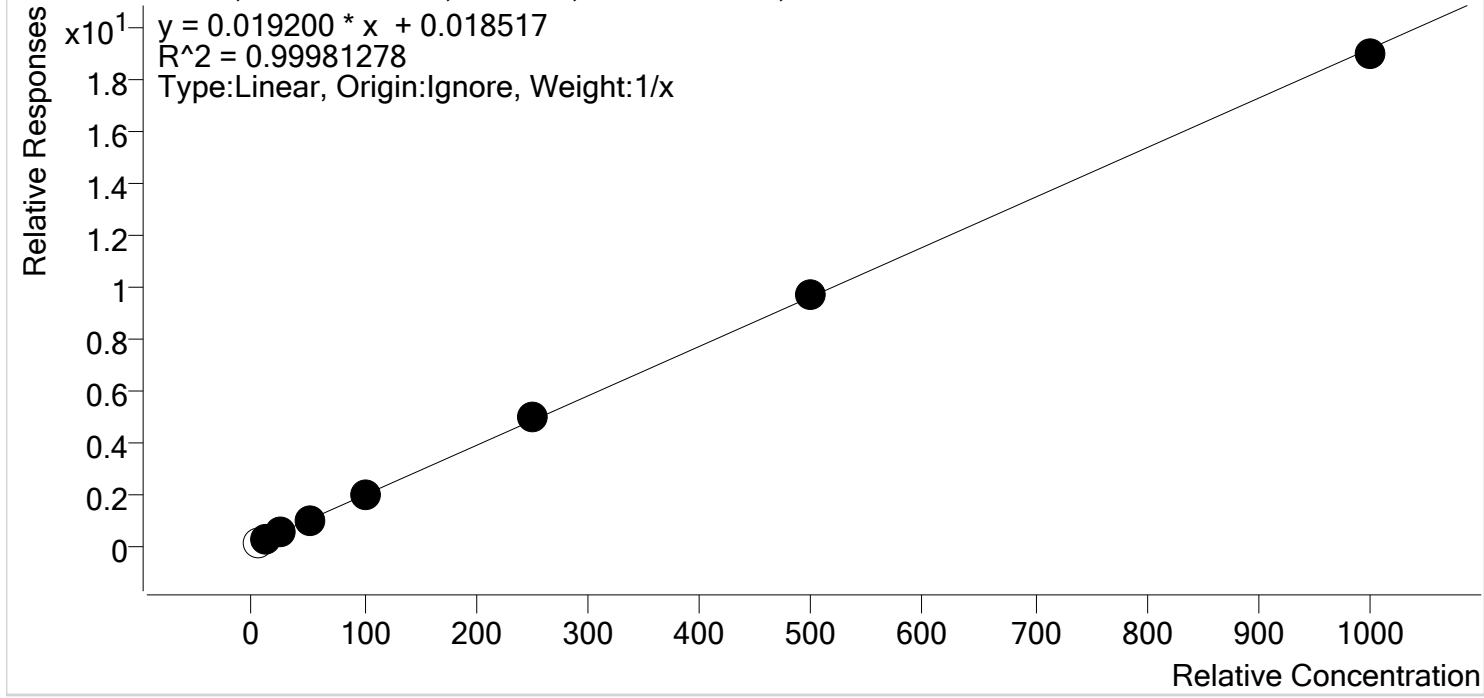
cg
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

EDDP - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | x | 5.0 | 4.9 | 98.2 * |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.6 | 96.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.9 | 99.5 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.4 | 100.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.9 | 101.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 254.0 | 101.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 505.6 | 101.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 988.6 | 98.9 |

*ISTD response for Cal 1 was very low.

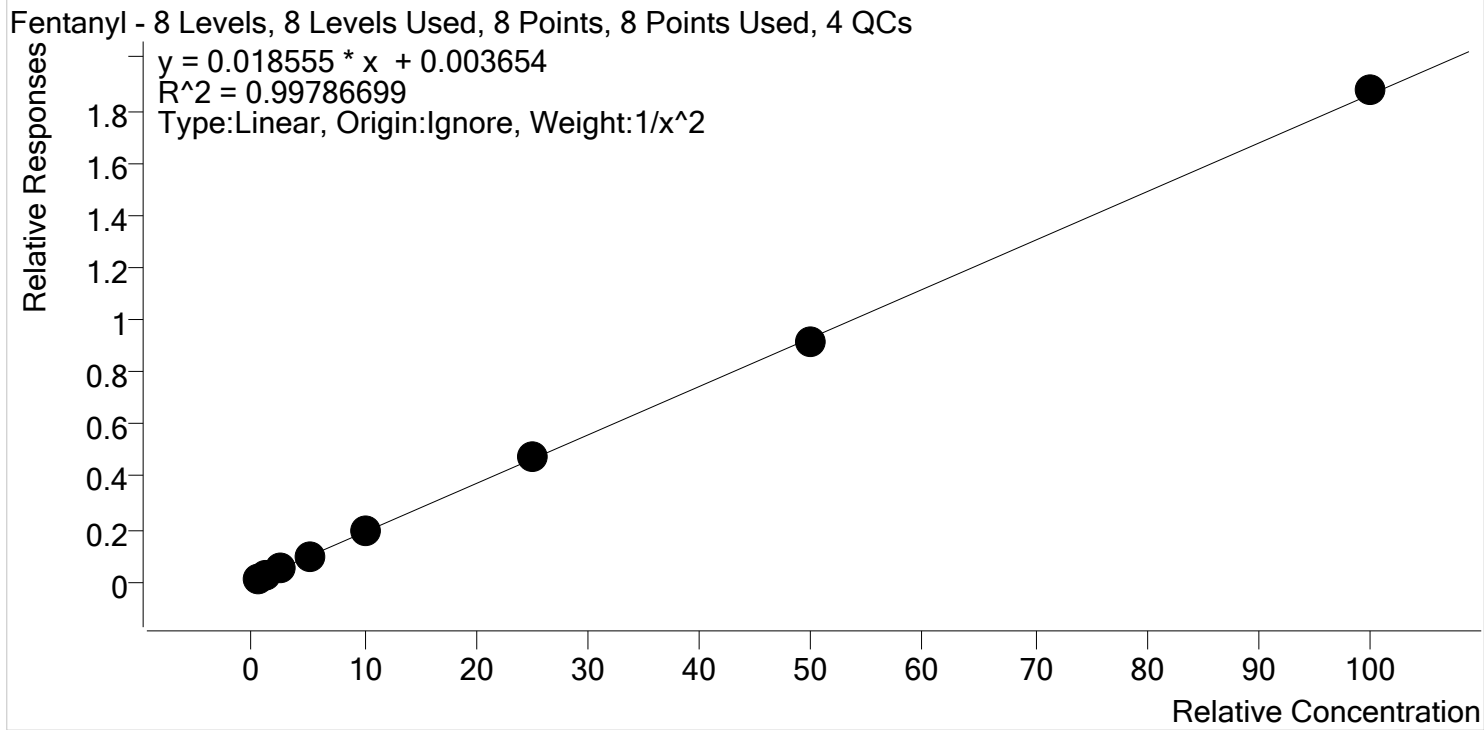
cg
TS

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 0.5 | 0.5 | 103.7 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 0.9 | 92.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 97.0 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 5.3 | 105.2 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 9.9 | 99.3 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 25.7 | 102.9 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 49.2 | 98.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 100.9 | 100.9 |

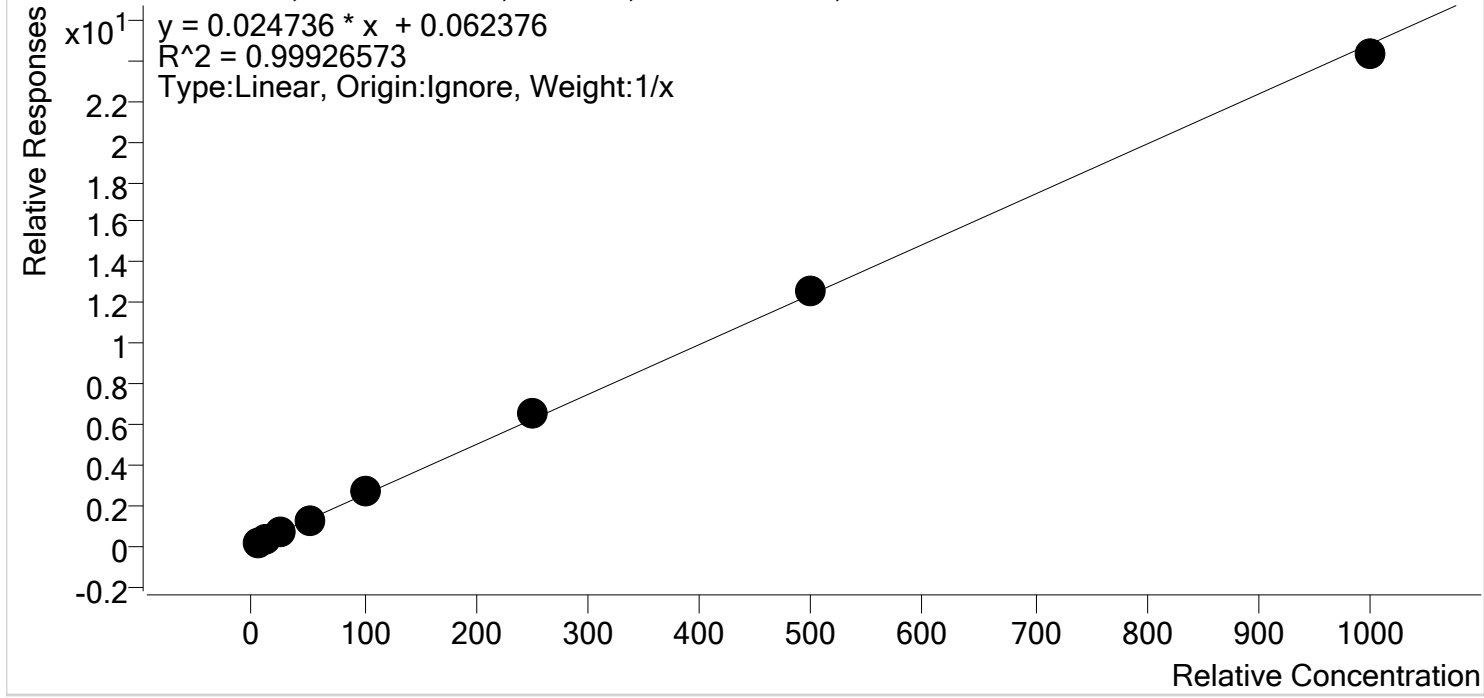
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

Fluoxetine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



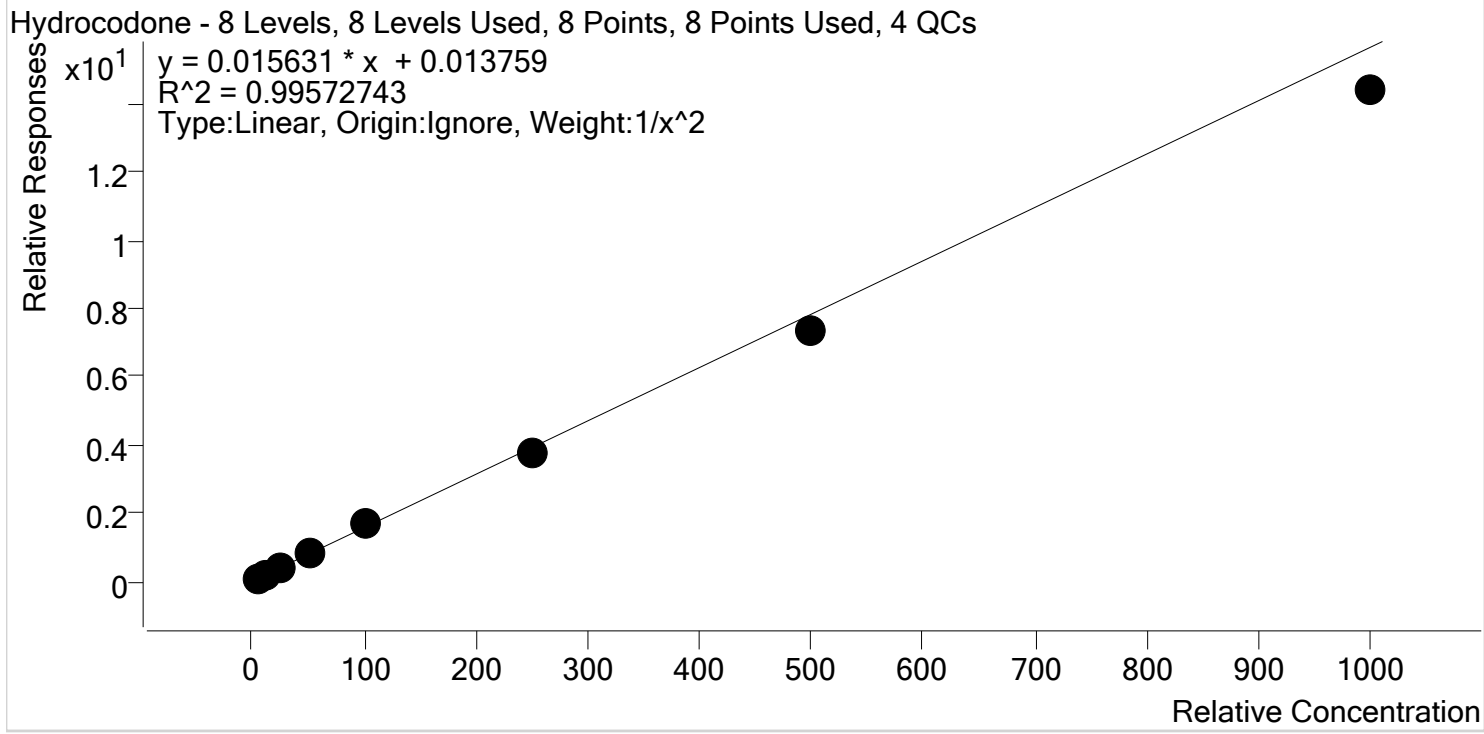
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.1 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.5 | 94.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.0 | 104.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.1 | 98.3 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 103.9 | 103.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 262.1 | 104.8 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 504.9 | 101.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 979.7 | 98.0 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6



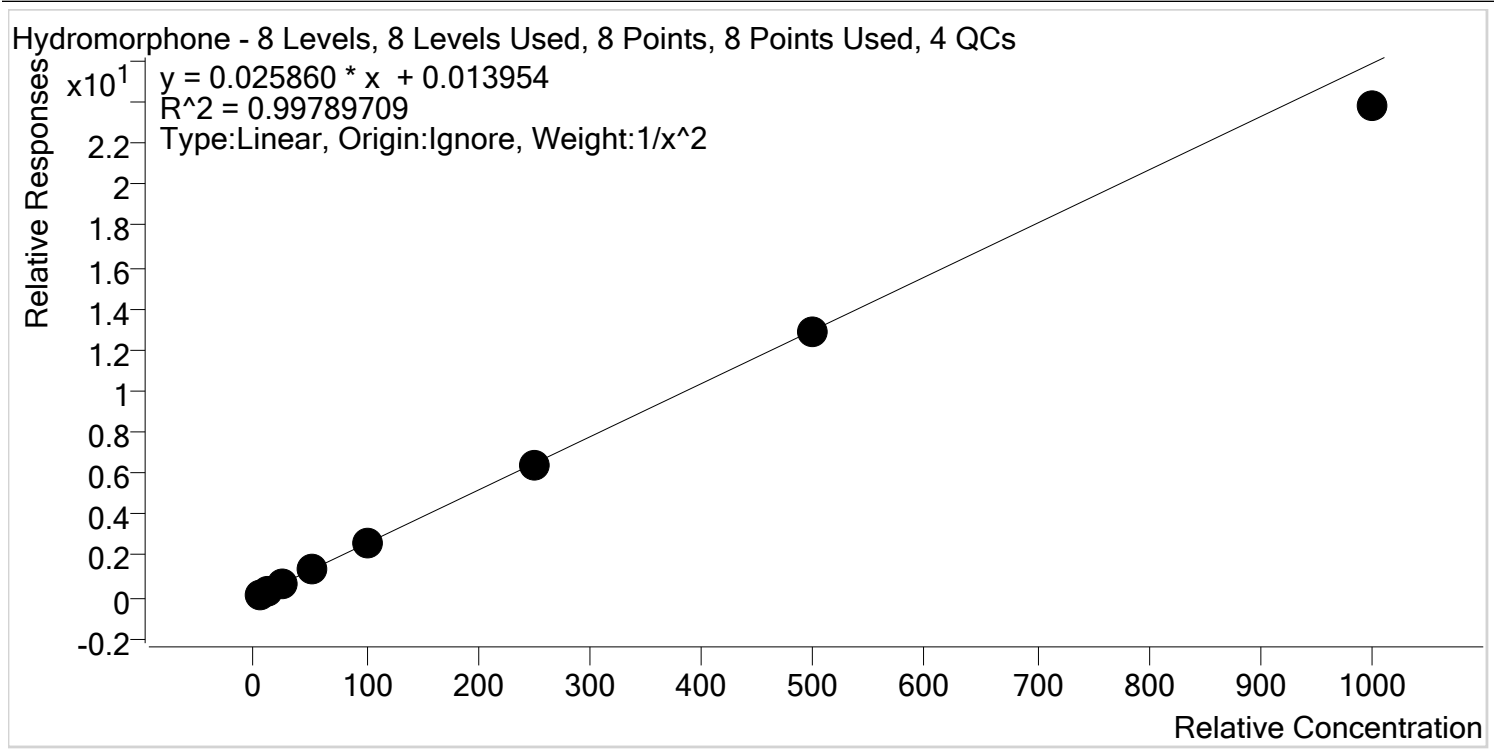
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 102.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.5 | 106.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.8 | 105.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.9 | 105.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 242.7 | 97.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 470.5 | 94.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 919.6 | 92.0 |

cg TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6



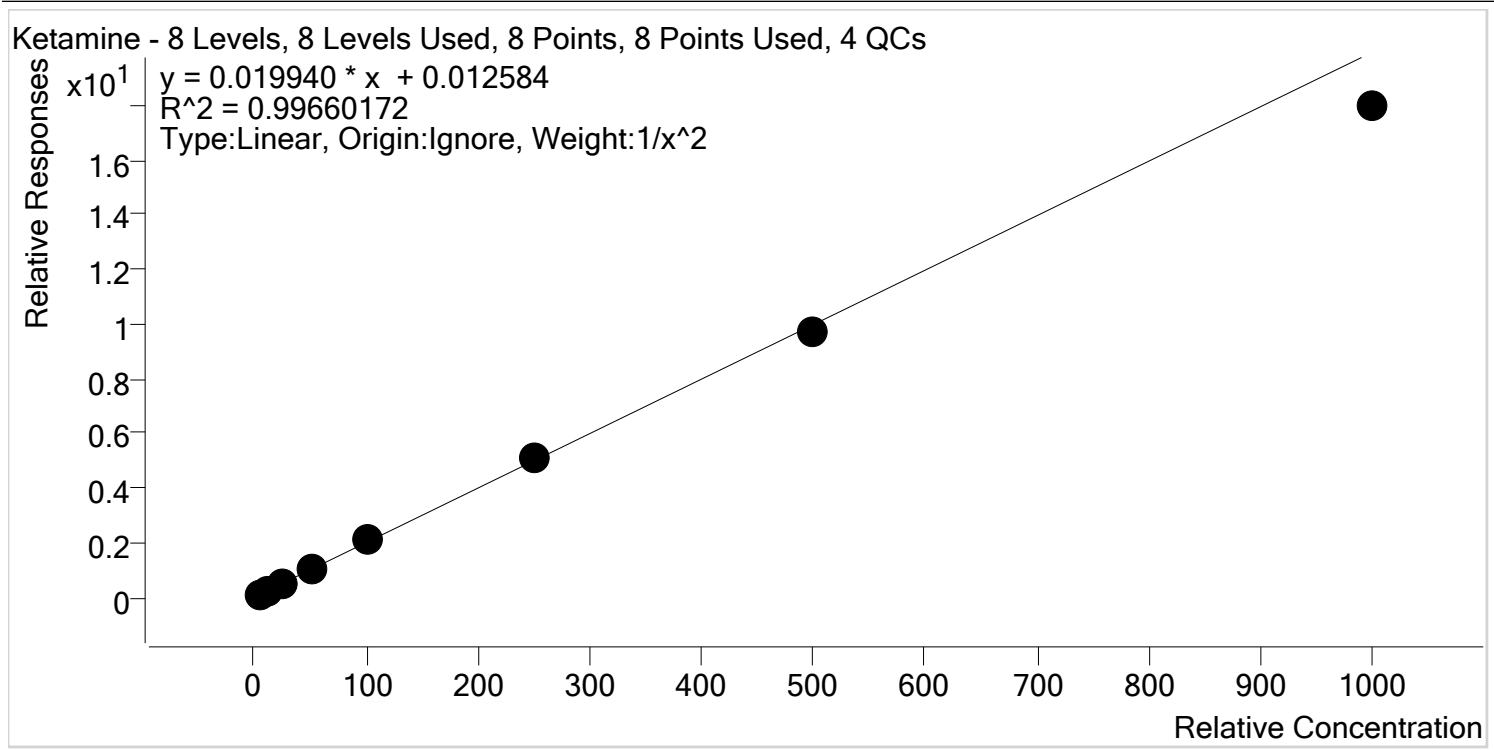
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.4 | 103.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.5 | 101.9 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.0 | 102.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 104.4 | 104.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 249.1 | 99.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 495.8 | 99.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 919.6 | 92.0 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4



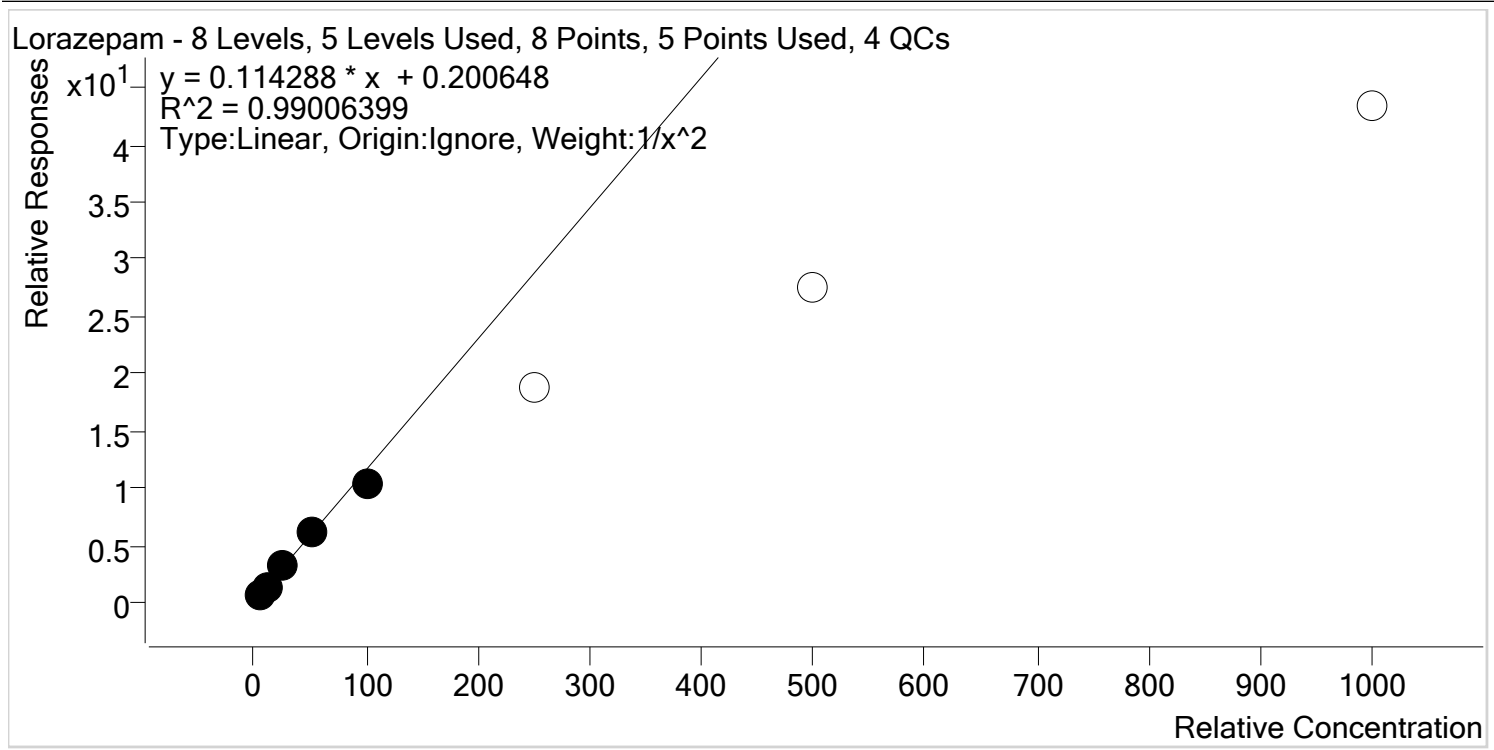
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 104.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.8 | 103.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.3 | 102.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 104.7 | 104.7 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.5 | 101.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 486.2 | 97.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 901.0 | 90.1 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4



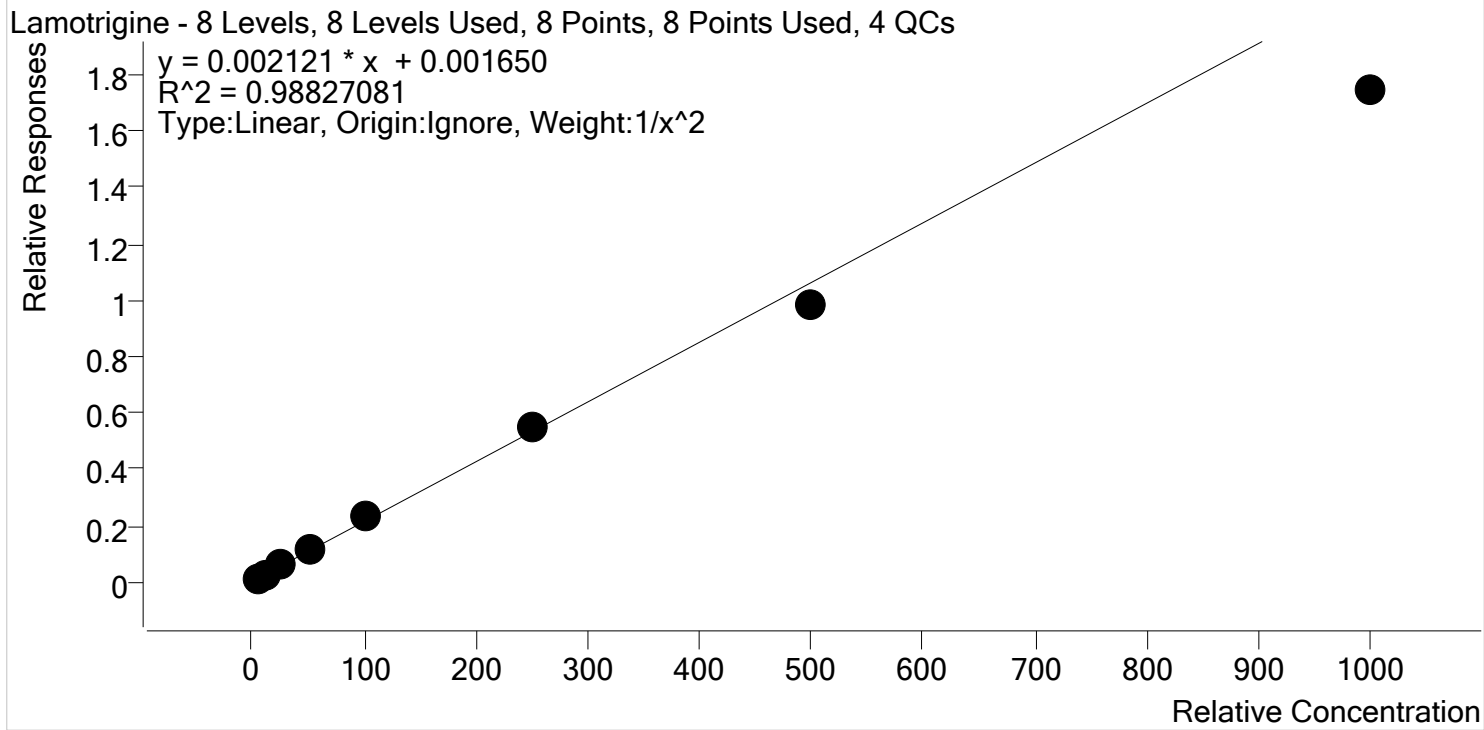
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.8 | 107.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.1 | 104.5 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.8 | 103.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 88.7 | 88.7 |
| p1 Cal 6-250ng | 6 | ✗ | 250.0 | 162.1 | 64.8 |
| p1 Cal 7-500ng | 7 | ✗ | 500.0 | 240.2 | 48.0 |
| p1 Cal 8-1000ng | 8 | ✗ | 1000.0 | 377.7 | 37.8 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4



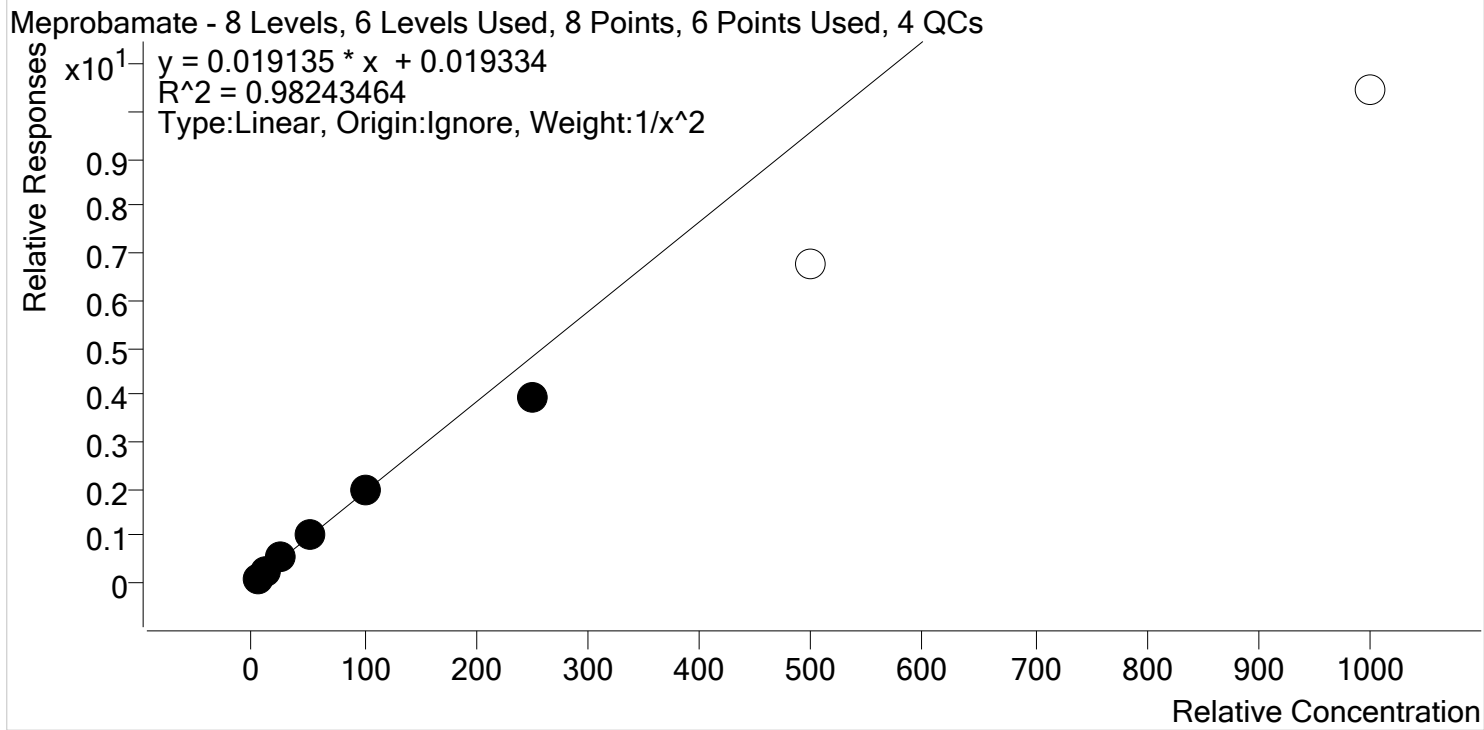
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 94.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.6 | 106.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.7 | 106.9 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.0 | 108.1 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 107.6 | 107.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 256.5 | 102.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 460.1 | 92.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 821.8 | 82.2 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7



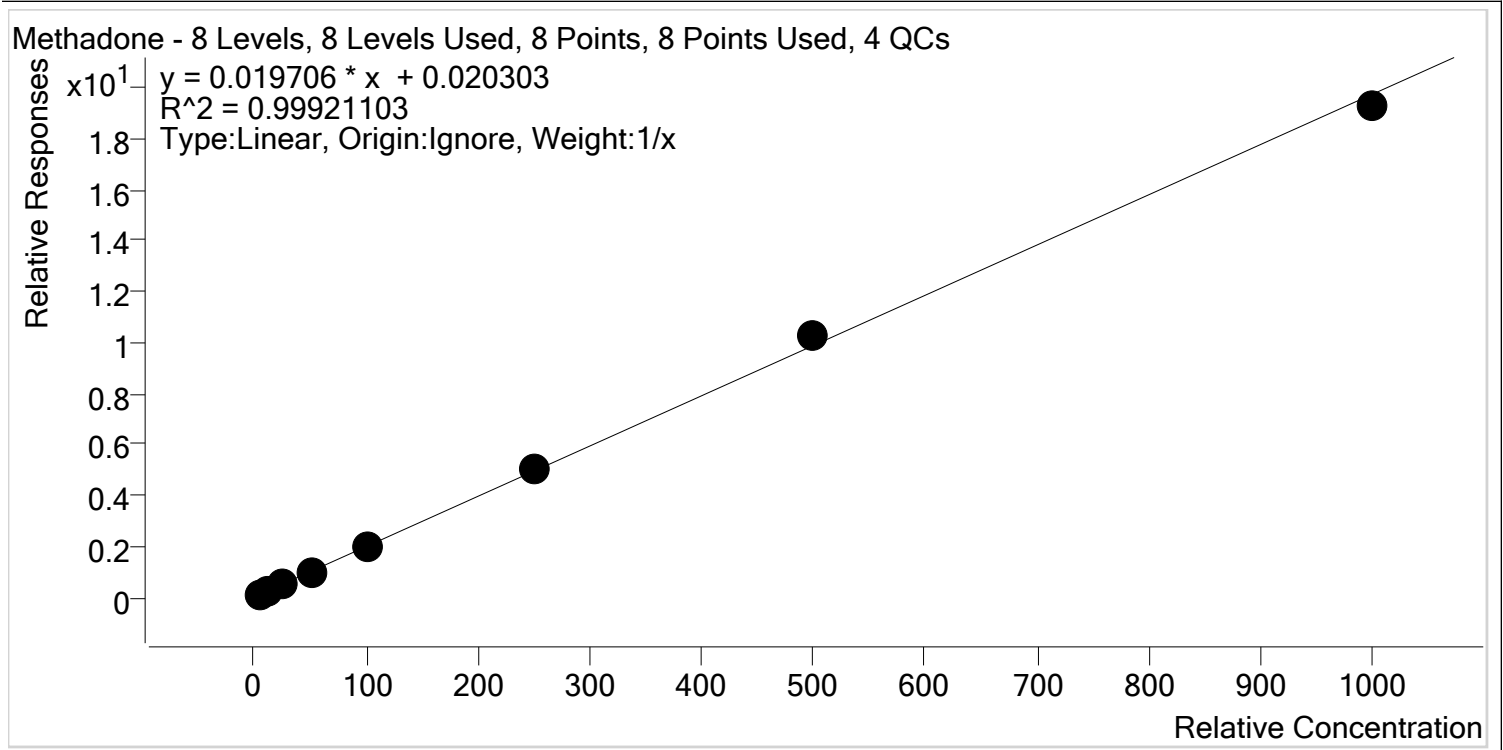
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 93.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.9 | 109.3 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 27.3 | 109.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.9 | 105.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.1 | 101.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 203.7 | 81.5 |
| p1 Cal 7-500ng | 7 | x | 500.0 | 354.6 | 70.9 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 545.7 | 54.6 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



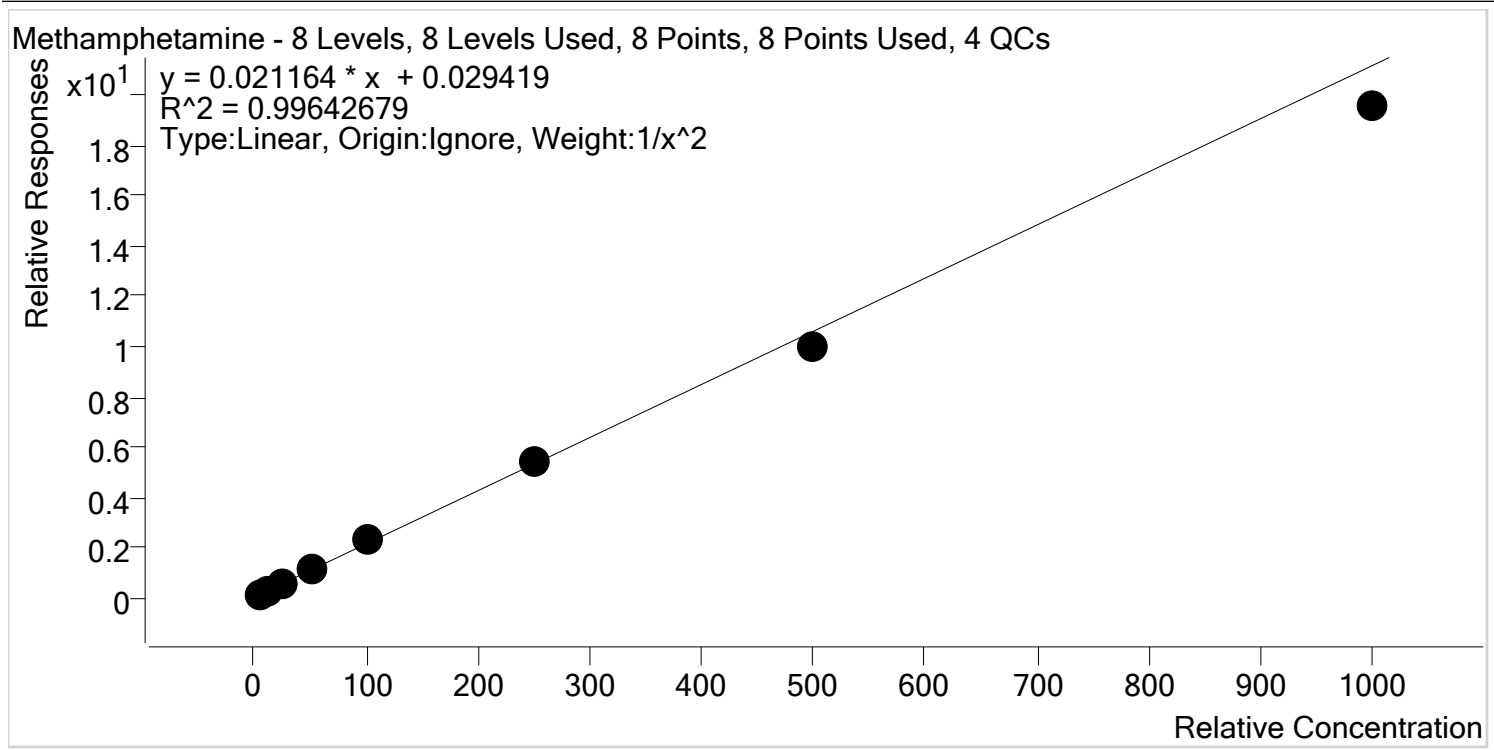
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 100.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.3 | 101.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 48.8 | 97.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.9 | 101.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 254.5 | 101.8 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 518.4 | 103.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 976.3 | 97.6 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 104.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.5 | 101.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.6 | 101.3 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 106.8 | 106.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 256.5 | 102.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 468.0 | 93.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 923.6 | 92.4 |

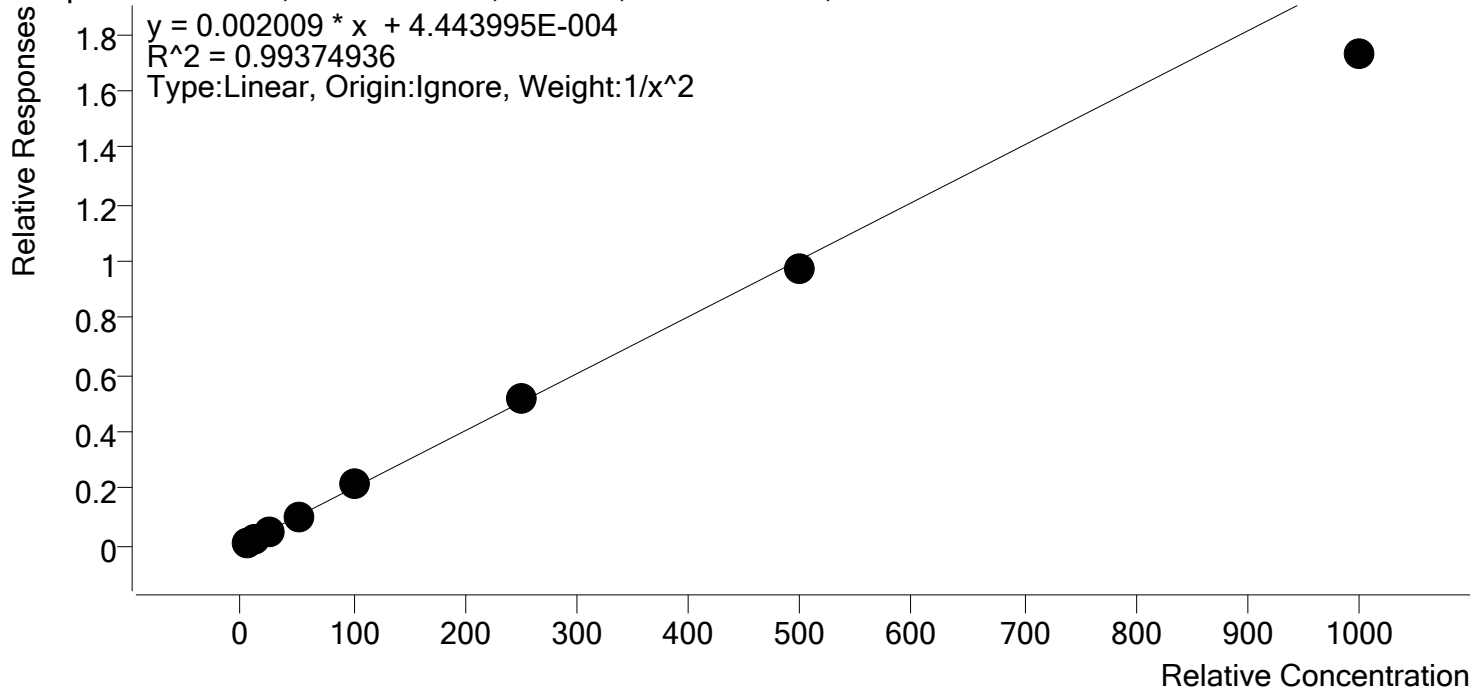
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

Metoprolol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.6 | 106.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.5 | 102.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.4 | 102.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 107.3 | 107.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.7 | 102.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 487.0 | 97.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 859.3 | 85.9 |

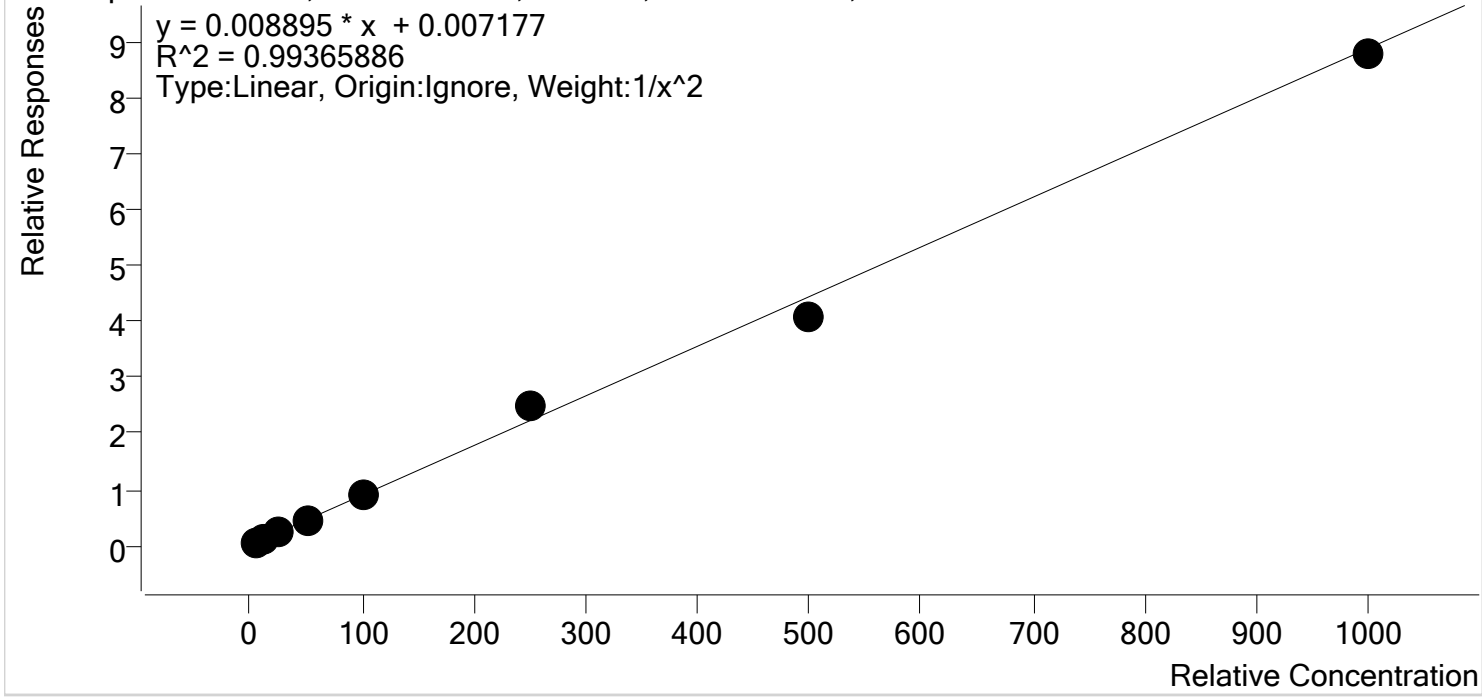
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

Mirtazapine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



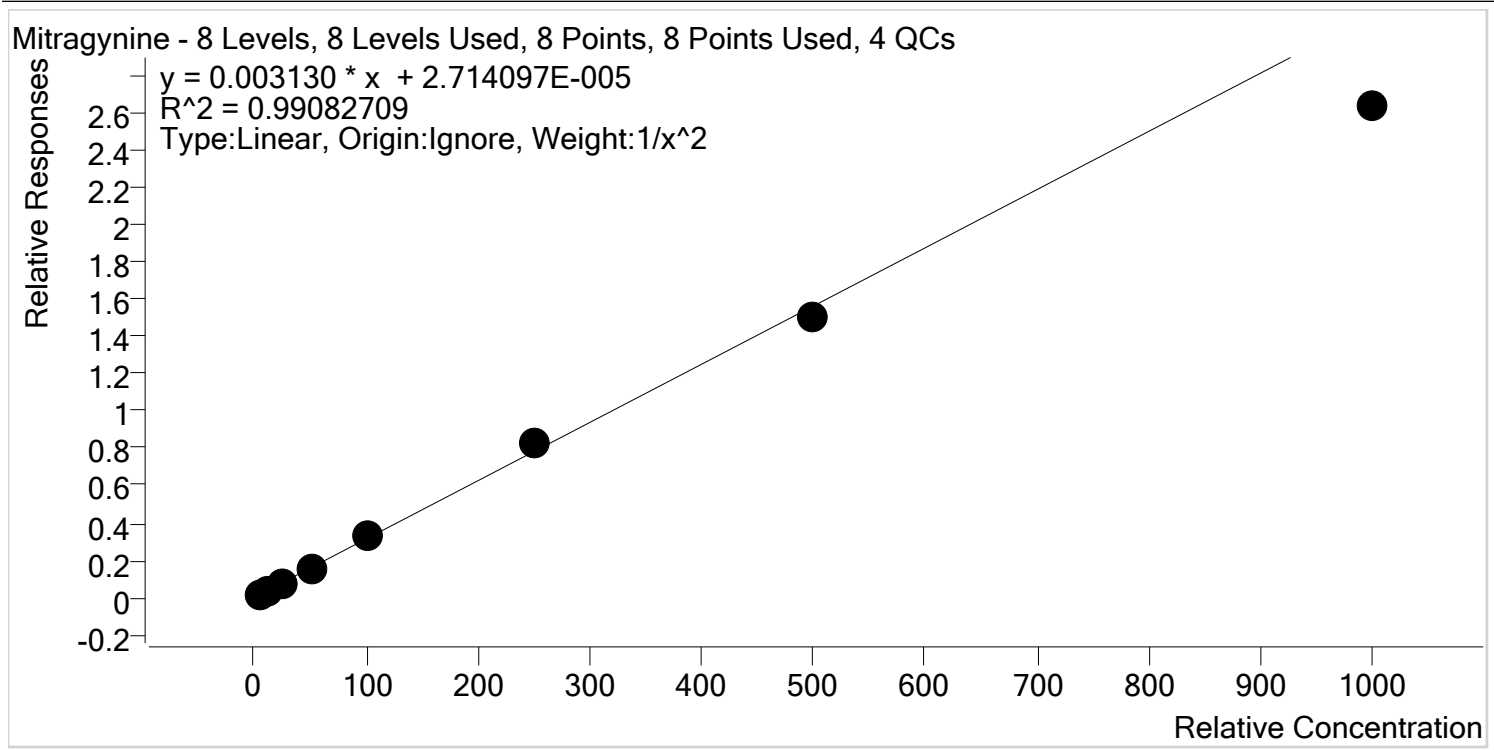
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 98.2 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.6 | 105.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 23.5 | 93.9 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.9 | 99.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 98.6 | 98.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 283.7 | 113.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 456.3 | 91.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 988.2 | 98.8 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9



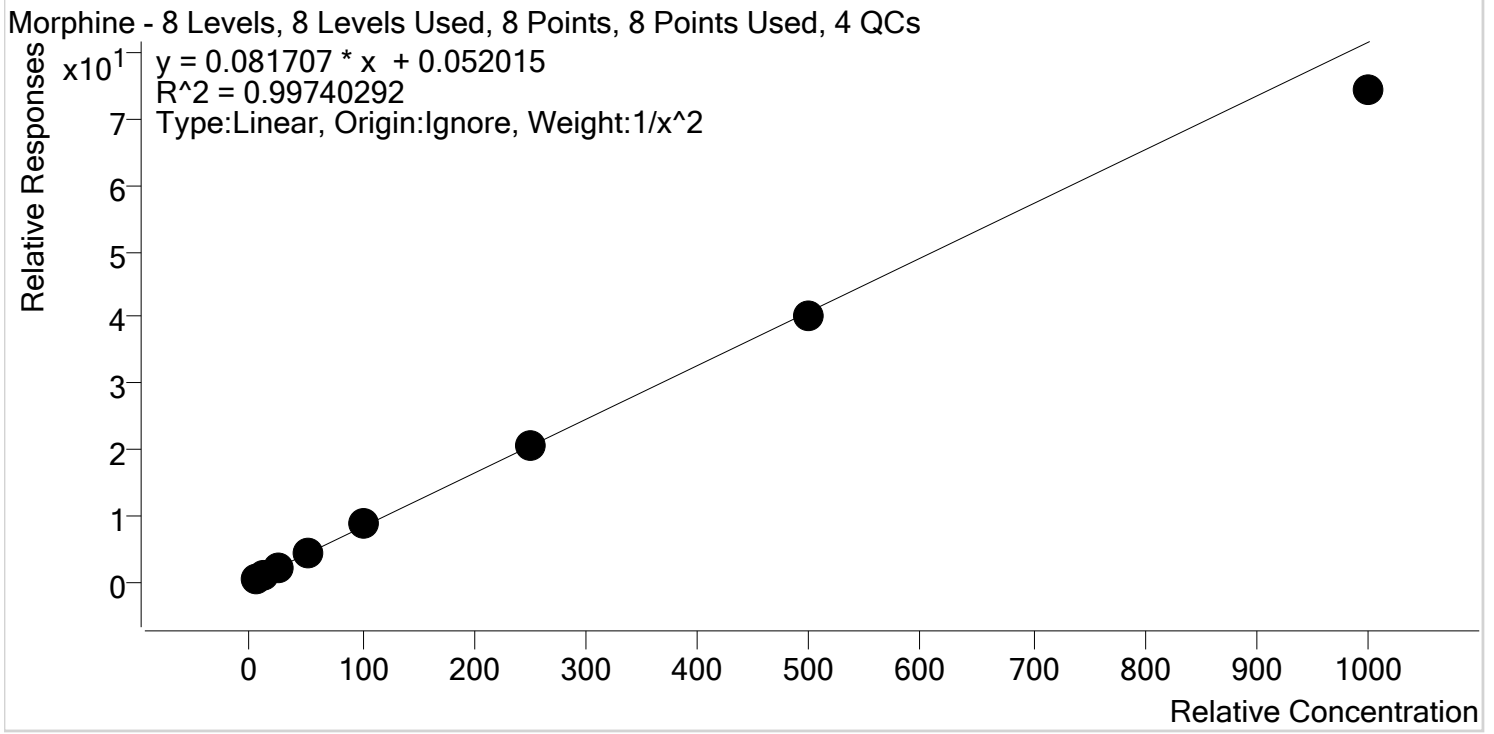
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 94.1 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 11.0 | 110.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.4 | 101.7 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.2 | 100.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 107.1 | 107.1 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 264.9 | 105.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 480.7 | 96.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 843.2 | 84.3 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 98.1 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 101.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.1 | 104.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.3 | 102.5 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 104.8 | 104.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 250.3 | 100.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 489.1 | 97.8 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 910.9 | 91.1 |

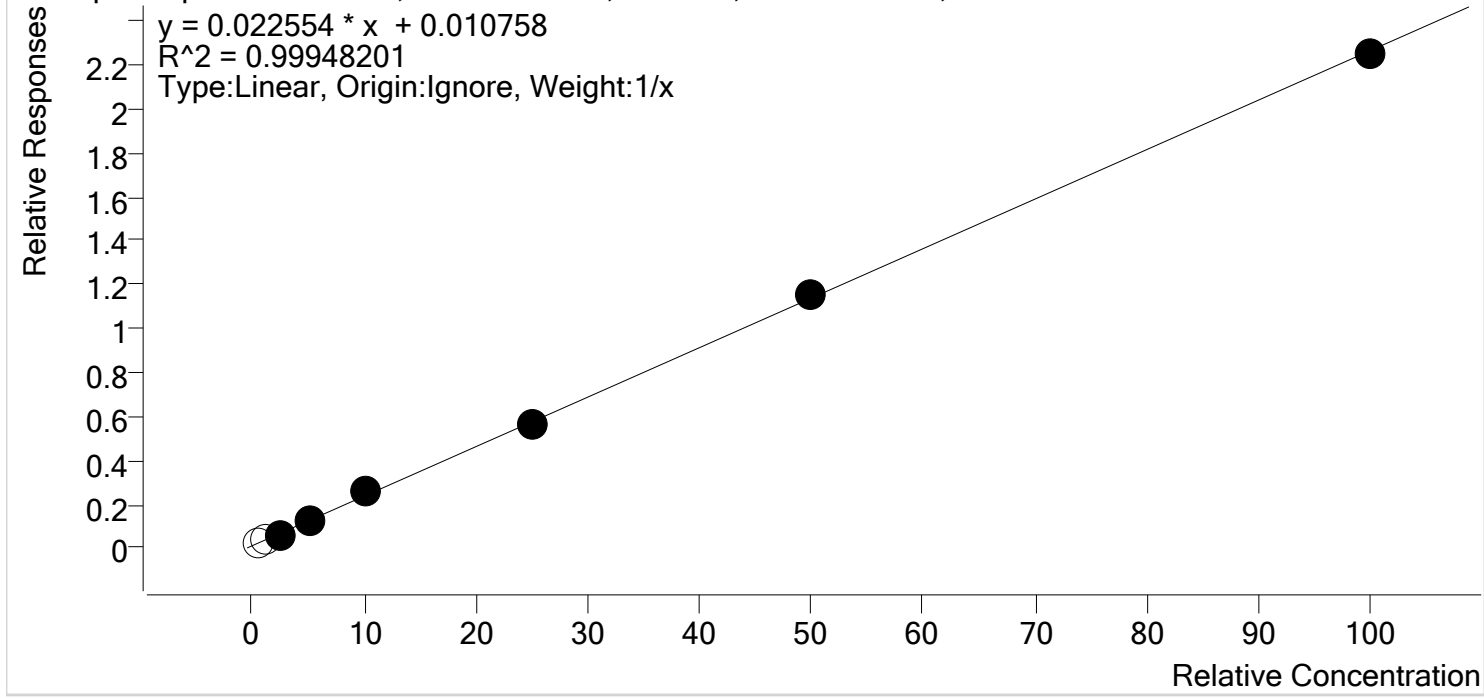
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs



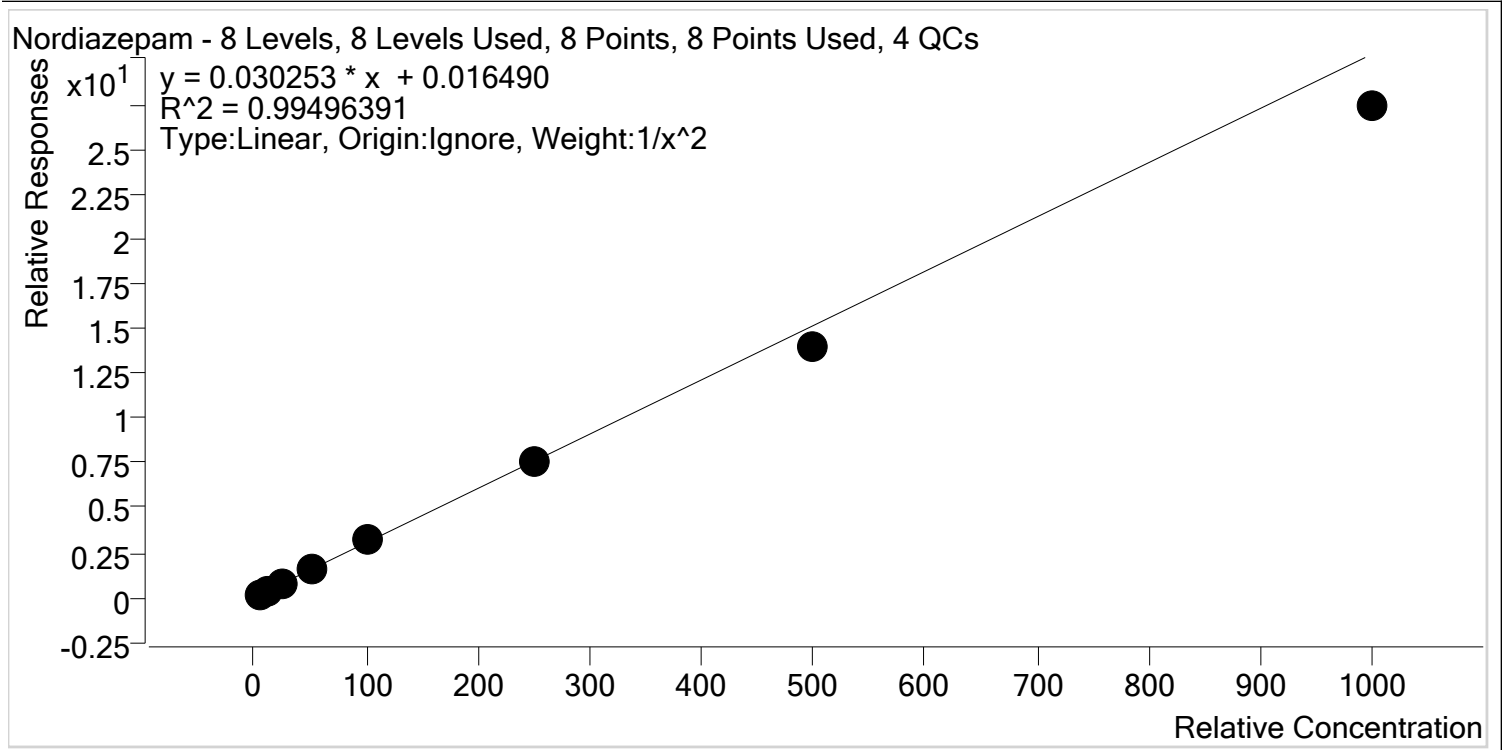
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | x | 0.5 | 0.7 | 131.3 |
| p1 Cal 2- 10ng | 2 | x | 1.0 | 1.1 | 105.2 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 95.3 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 4.9 | 98.3 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 10.7 | 107.4 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 24.7 | 98.8 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 50.5 | 101.0 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 99.3 | 99.3 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5



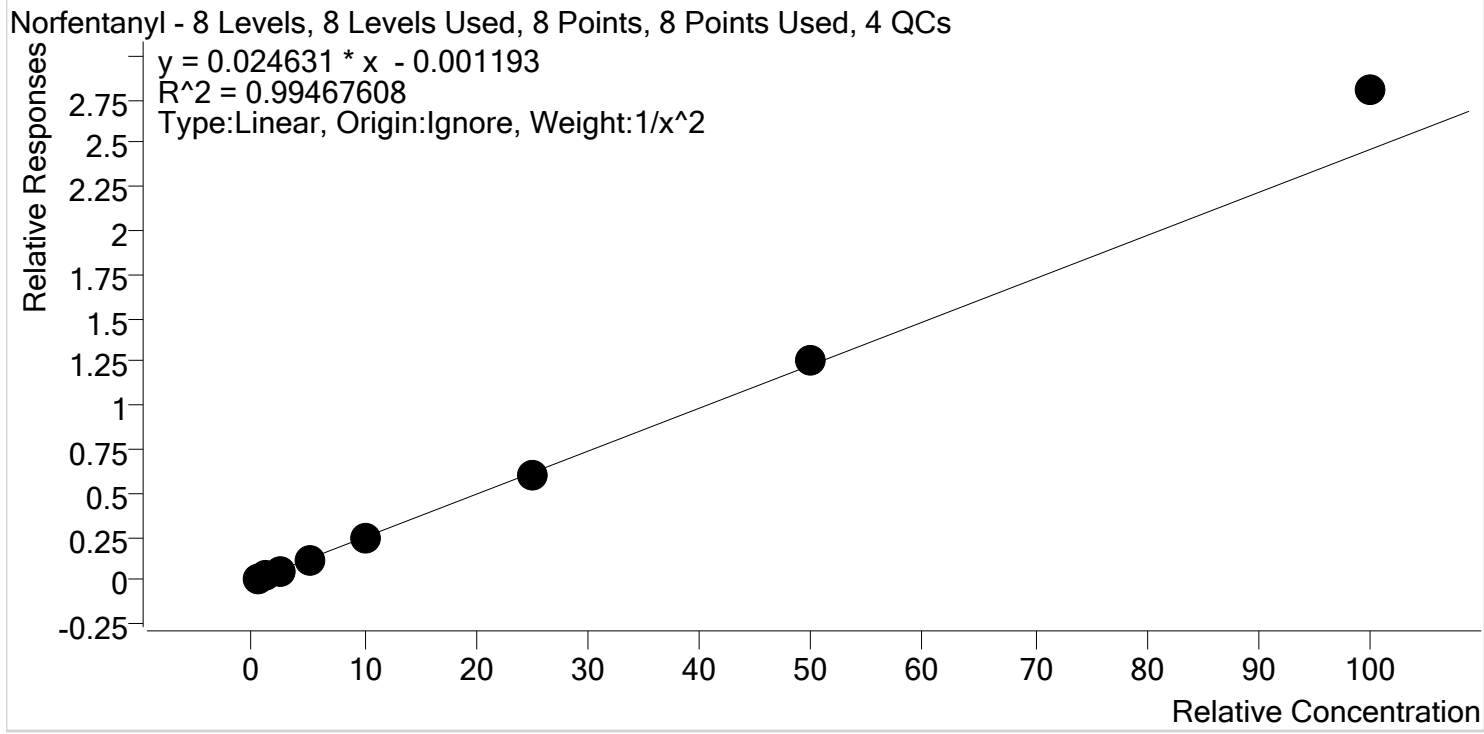
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 102.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.8 | 107.3 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.3 | 104.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.4 | 105.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 250.0 | 100.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 464.6 | 92.9 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 904.0 | 90.4 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5



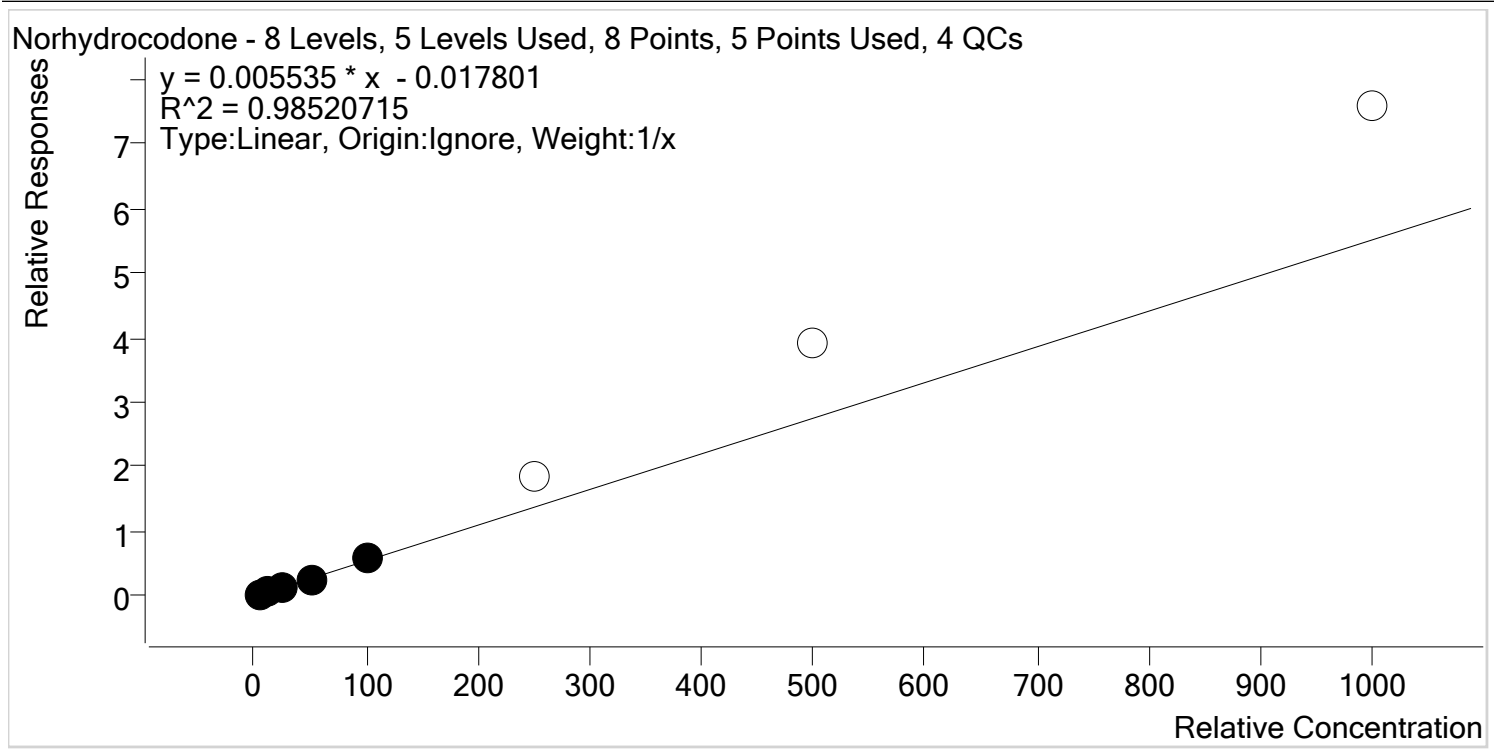
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 0.5 | 0.5 | 101.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 1.0 | 1.0 | 99.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 2.5 | 2.4 | 95.8 |
| p1 Cal 4-50ng | 4 | ✓ | 5.0 | 4.7 | 93.5 |
| p1 Cal 5-100ng | 5 | ✓ | 10.0 | 9.6 | 95.9 |
| p1 Cal 6-250ng | 6 | ✓ | 25.0 | 24.3 | 97.4 |
| p1 Cal 7-500ng | 7 | ✓ | 50.0 | 51.2 | 102.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 100.0 | 113.7 | 113.7 |

CS
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3



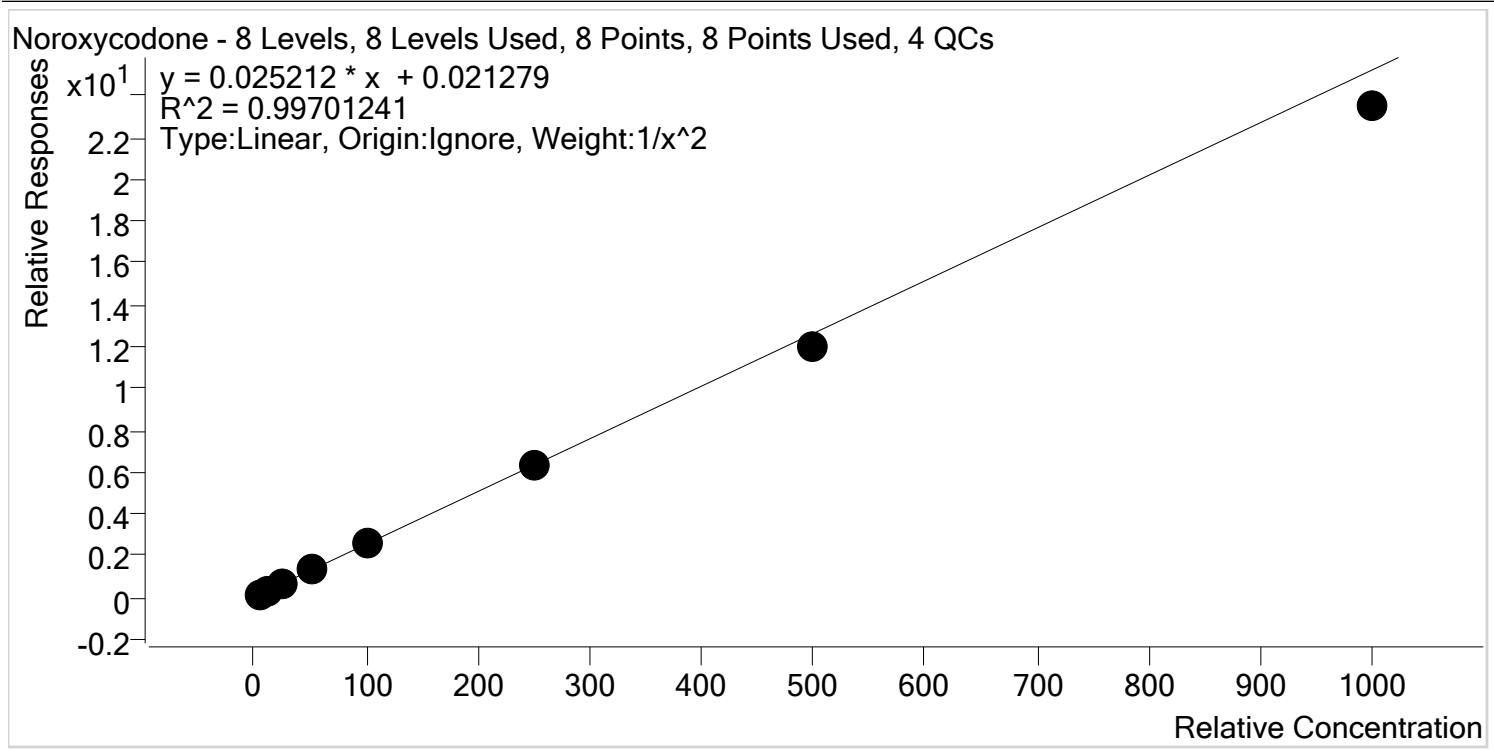
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 5.9 | 118.5 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 98.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 21.1 | 84.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 45.3 | 90.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 107.8 | 107.8 |
| p1 Cal 6-250ng | 6 | x | 250.0 | 336.8 | 134.7 |
| p1 Cal 7-500ng | 7 | x | 500.0 | 706.5 | 141.3 |
| p1 Cal 8-1000ng | 8 | x | 1000.0 | 1374.8 | 137.5 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3



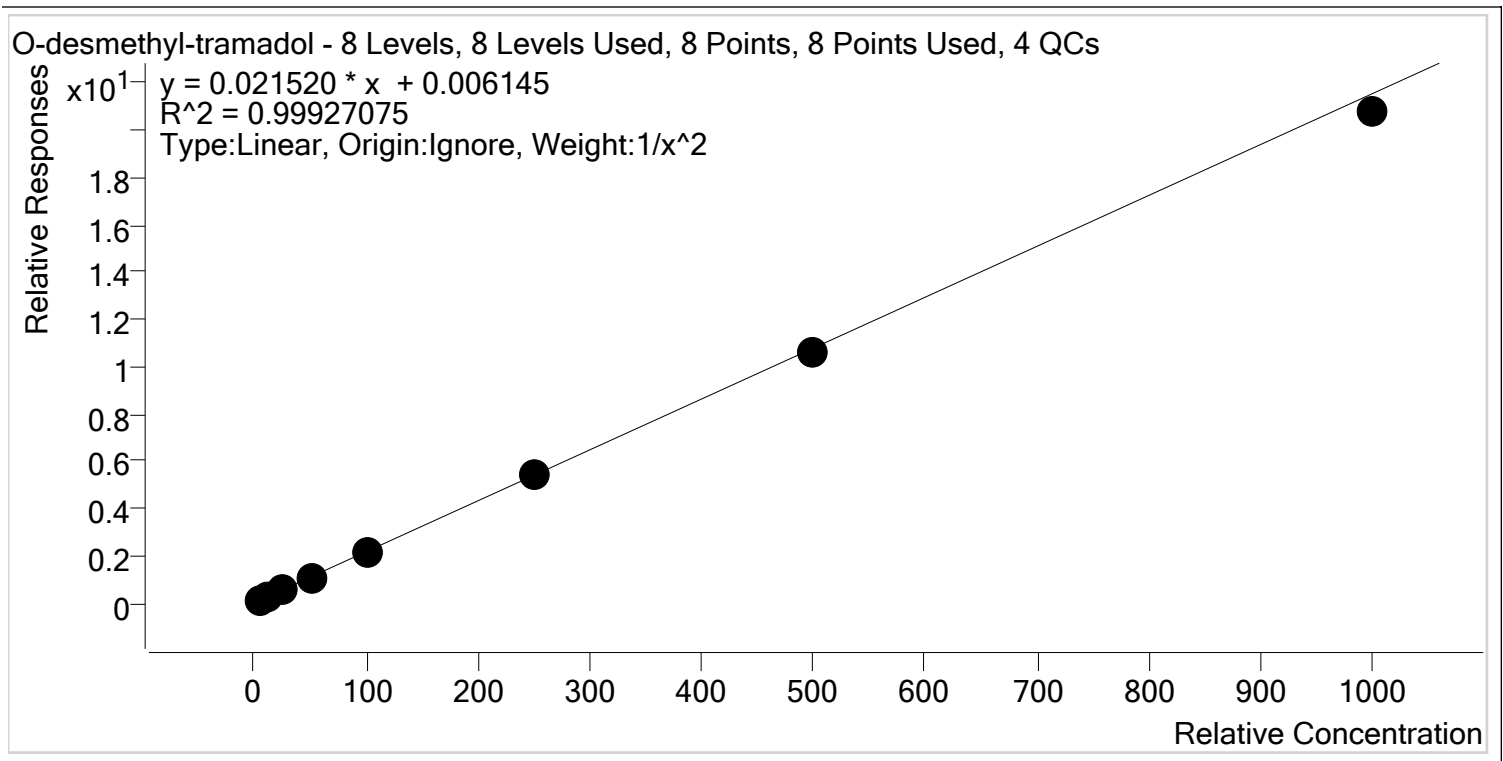
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 95.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 105.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.4 | 105.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.6 | 103.1 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.2 | 101.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.6 | 100.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 475.8 | 95.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 931.1 | 93.1 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.9 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.4 | 103.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.3 | 101.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.5 | 101.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.7 | 101.7 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.0 | 100.4 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 490.4 | 98.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 964.3 | 96.4 |

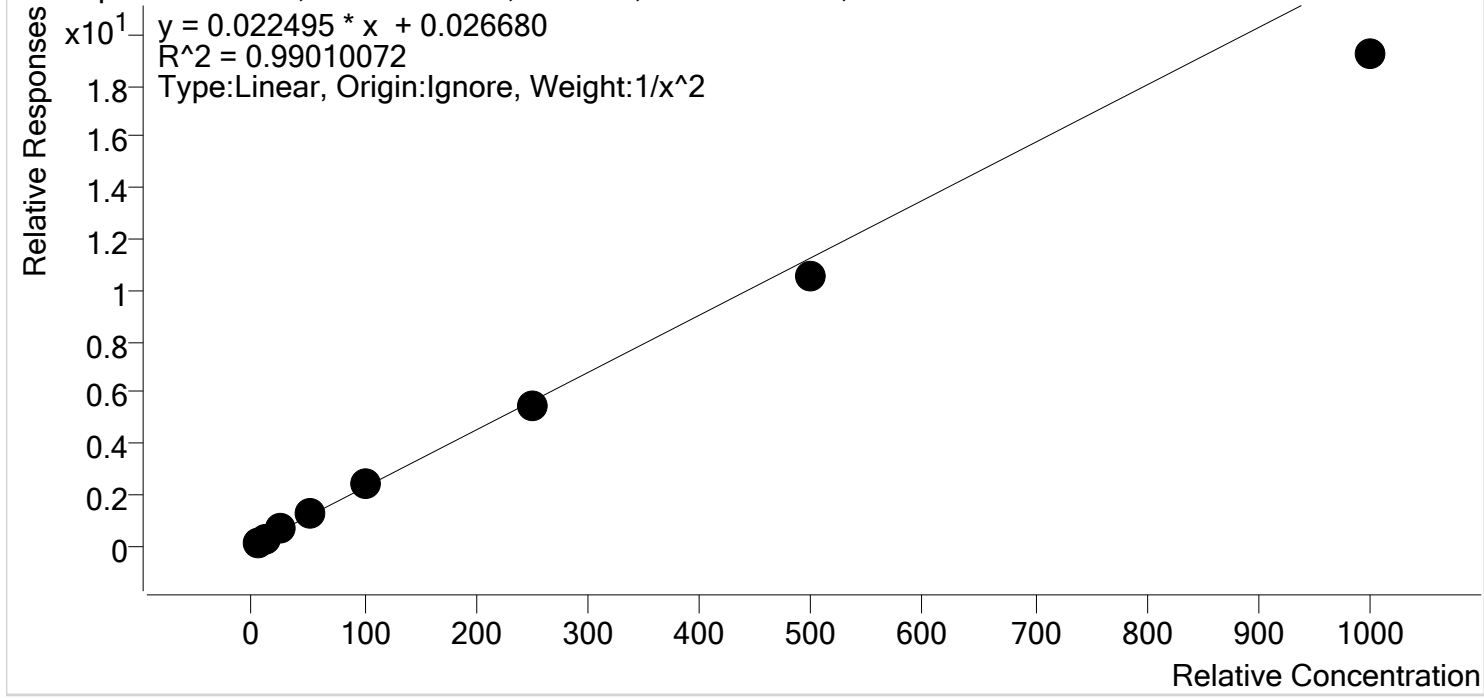
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



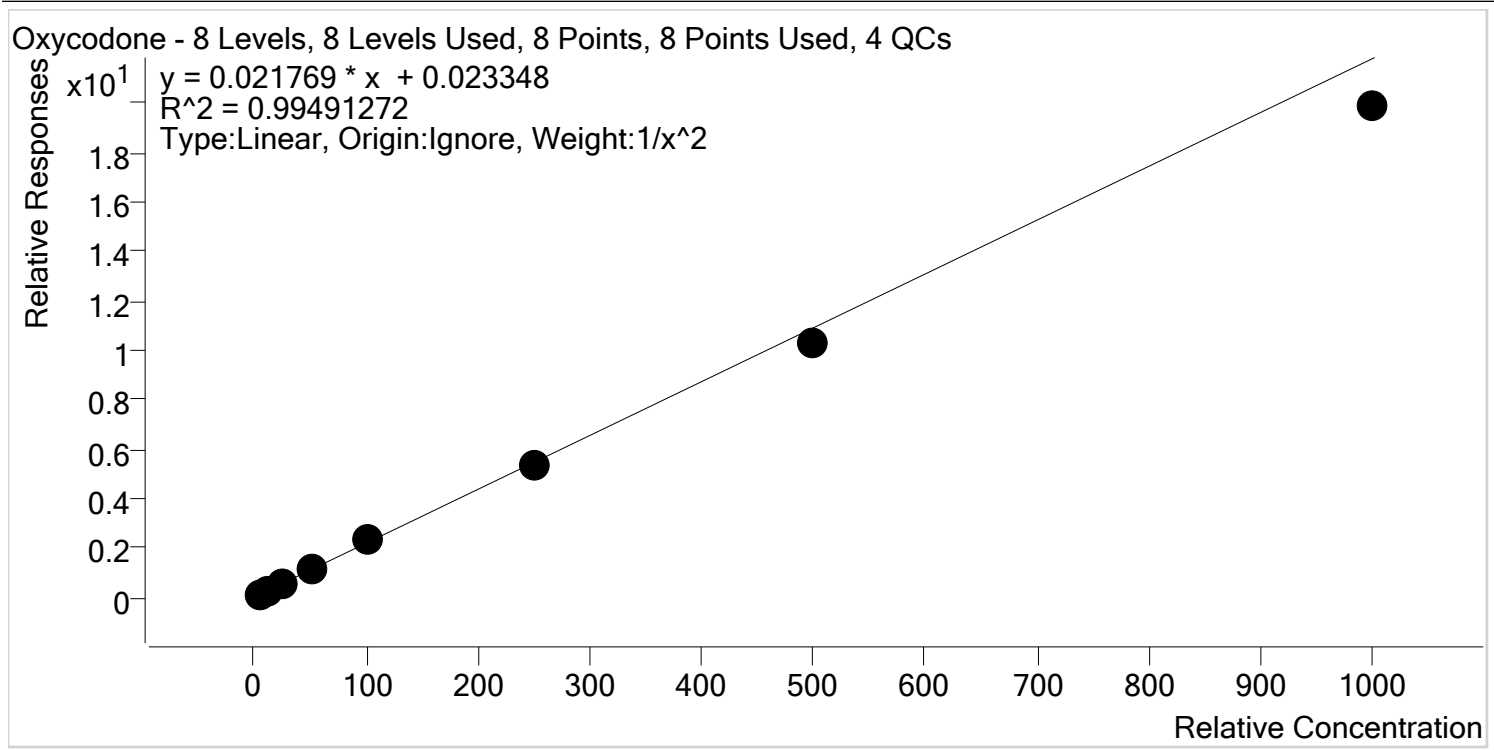
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 93.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.7 | 107.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 27.0 | 108.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 53.6 | 107.1 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 107.3 | 107.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 243.9 | 97.6 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 466.8 | 93.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 853.7 | 85.4 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6



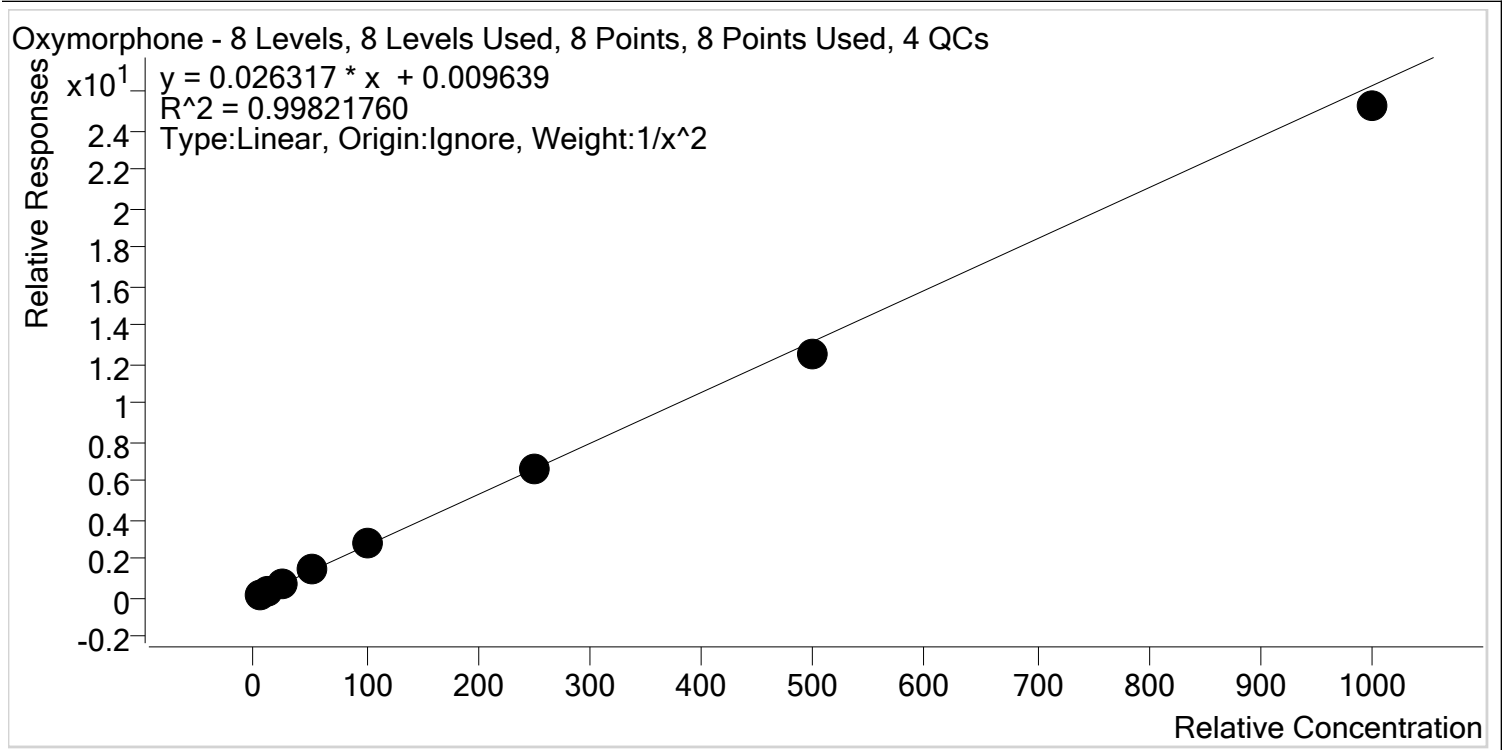
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.1 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 104.5 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.2 | 105.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.9 | 103.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 108.4 | 108.4 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 243.1 | 97.3 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 468.8 | 93.8 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 911.7 | 91.2 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3



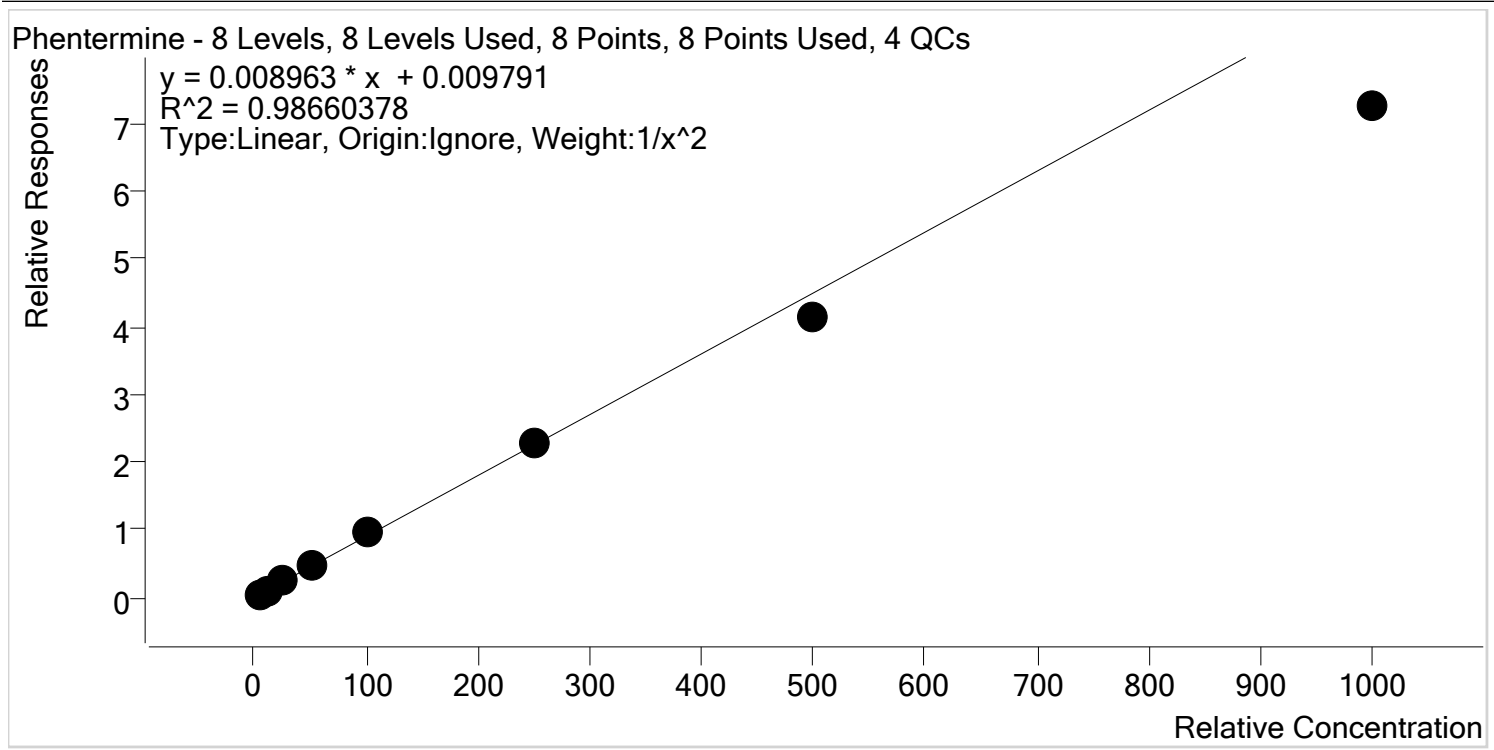
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.4 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 104.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.9 | 99.5 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.9 | 101.8 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 104.3 | 104.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.9 | 101.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 475.4 | 95.1 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 959.6 | 96.0 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 93.8 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.7 | 107.3 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.8 | 107.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 54.1 | 108.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 108.3 | 108.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 255.5 | 102.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 461.6 | 92.3 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 806.8 | 80.7 |

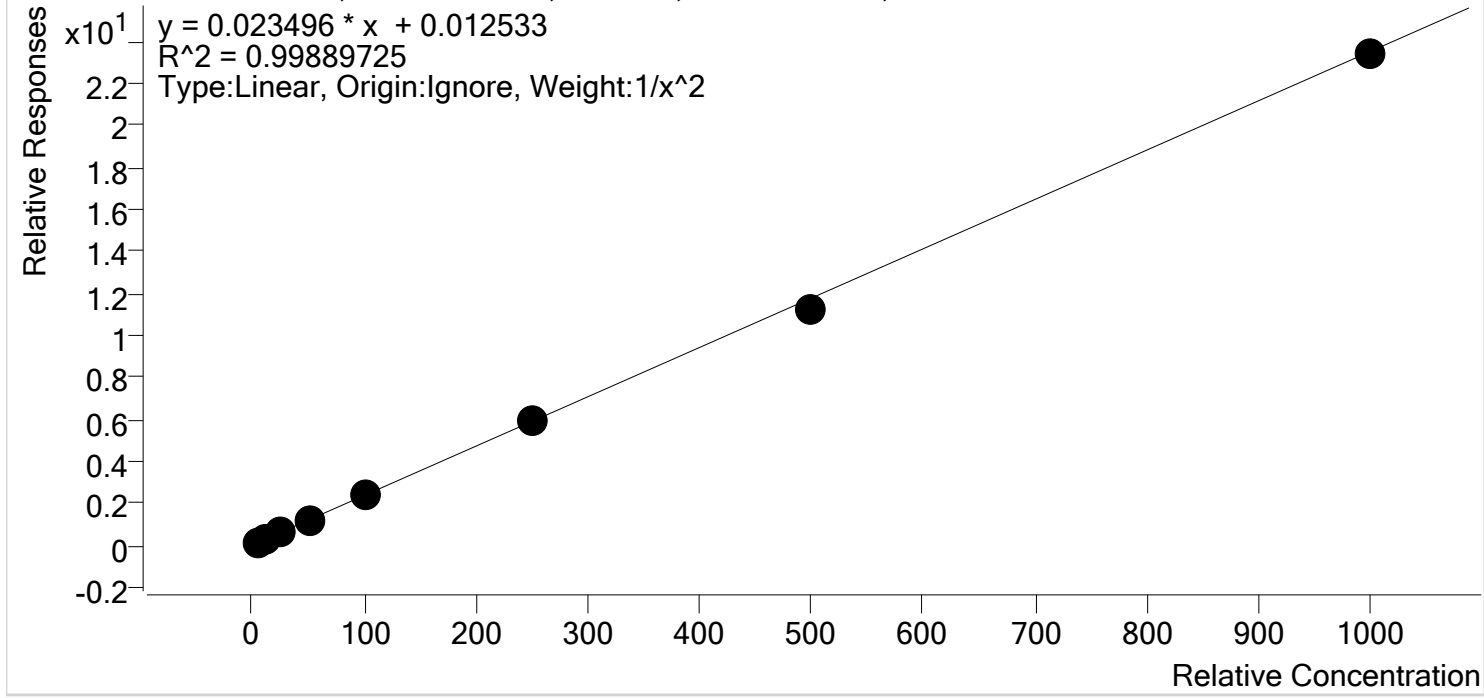
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

Promethazine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



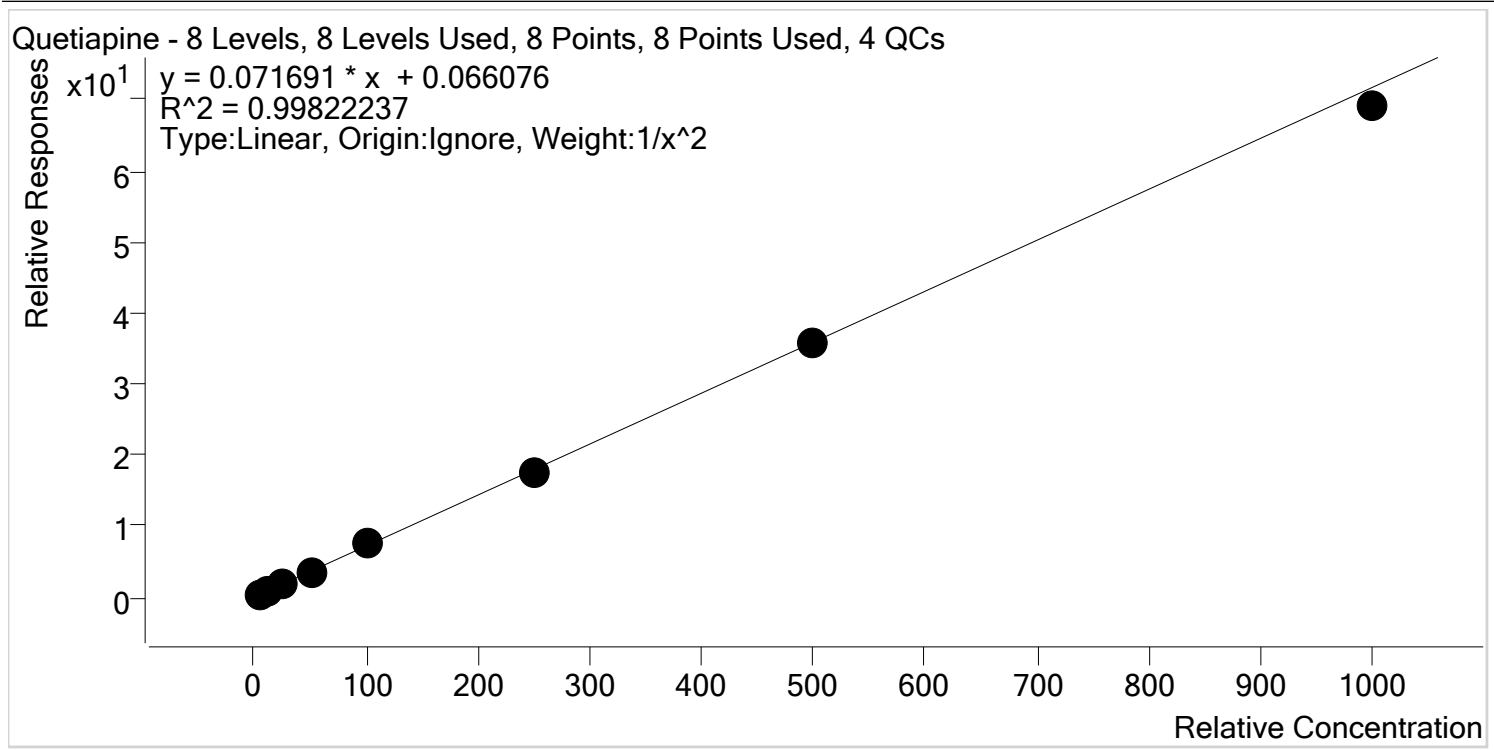
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.4 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.5 | 105.0 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.0 | 100.2 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 49.8 | 99.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 102.7 | 102.7 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 249.9 | 100.0 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 478.7 | 95.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 994.4 | 99.4 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 5.0 | 100.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 100.6 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.4 | 97.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 48.9 | 97.7 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 108.3 | 108.3 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 247.2 | 98.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 502.2 | 100.4 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 963.1 | 96.3 |

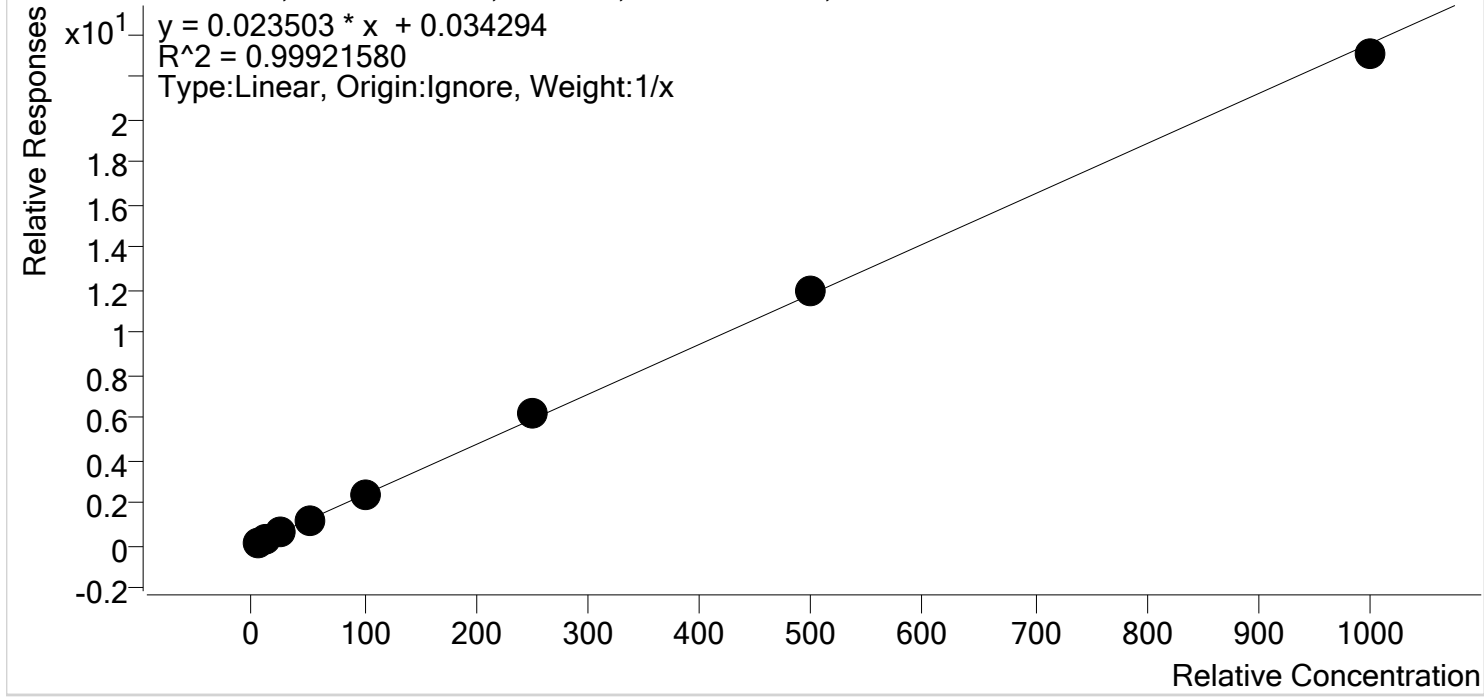
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

Sertraline - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



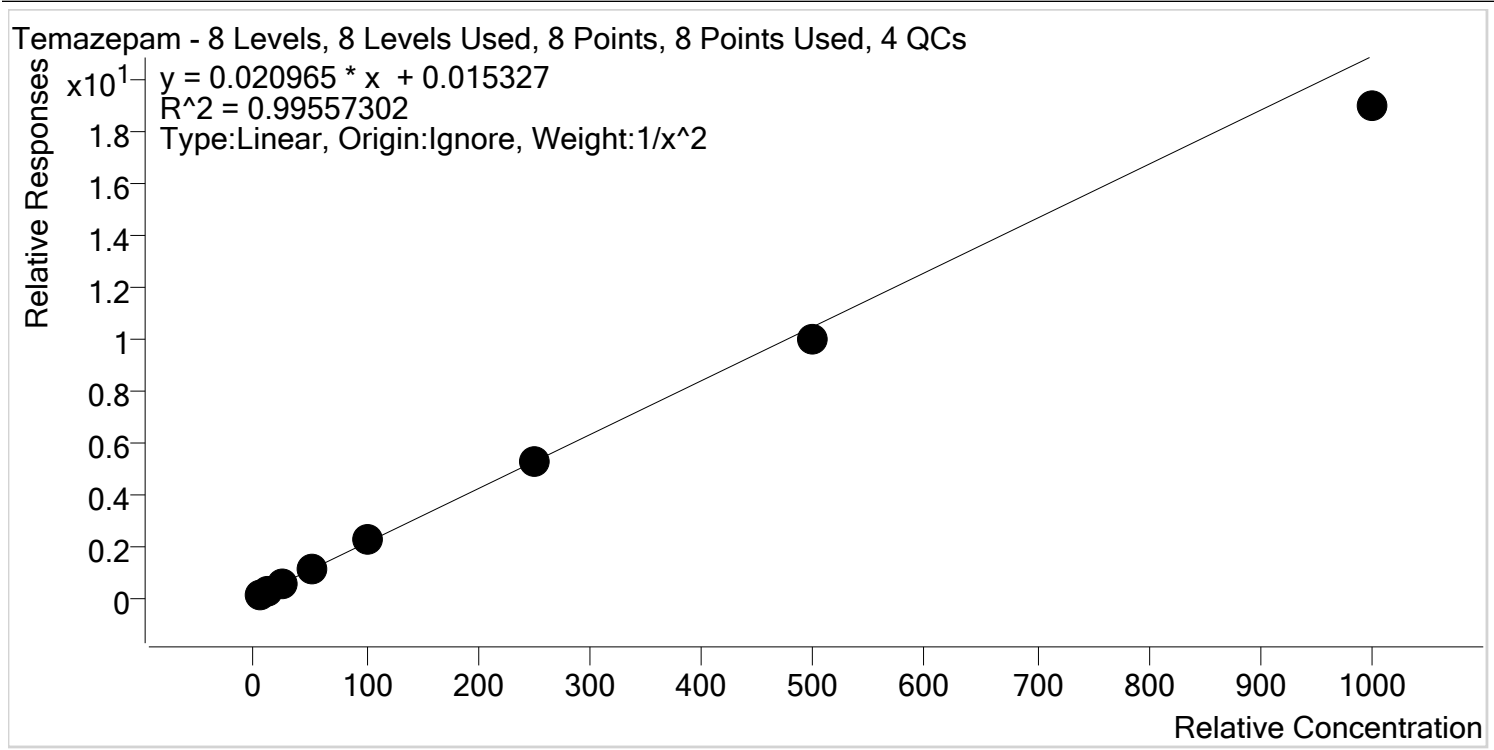
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 5.0 | 99.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.4 | 94.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.0 | 100.0 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.1 | 102.2 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 99.2 | 99.2 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 263.6 | 105.4 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 508.2 | 101.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 978.6 | 97.9 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5



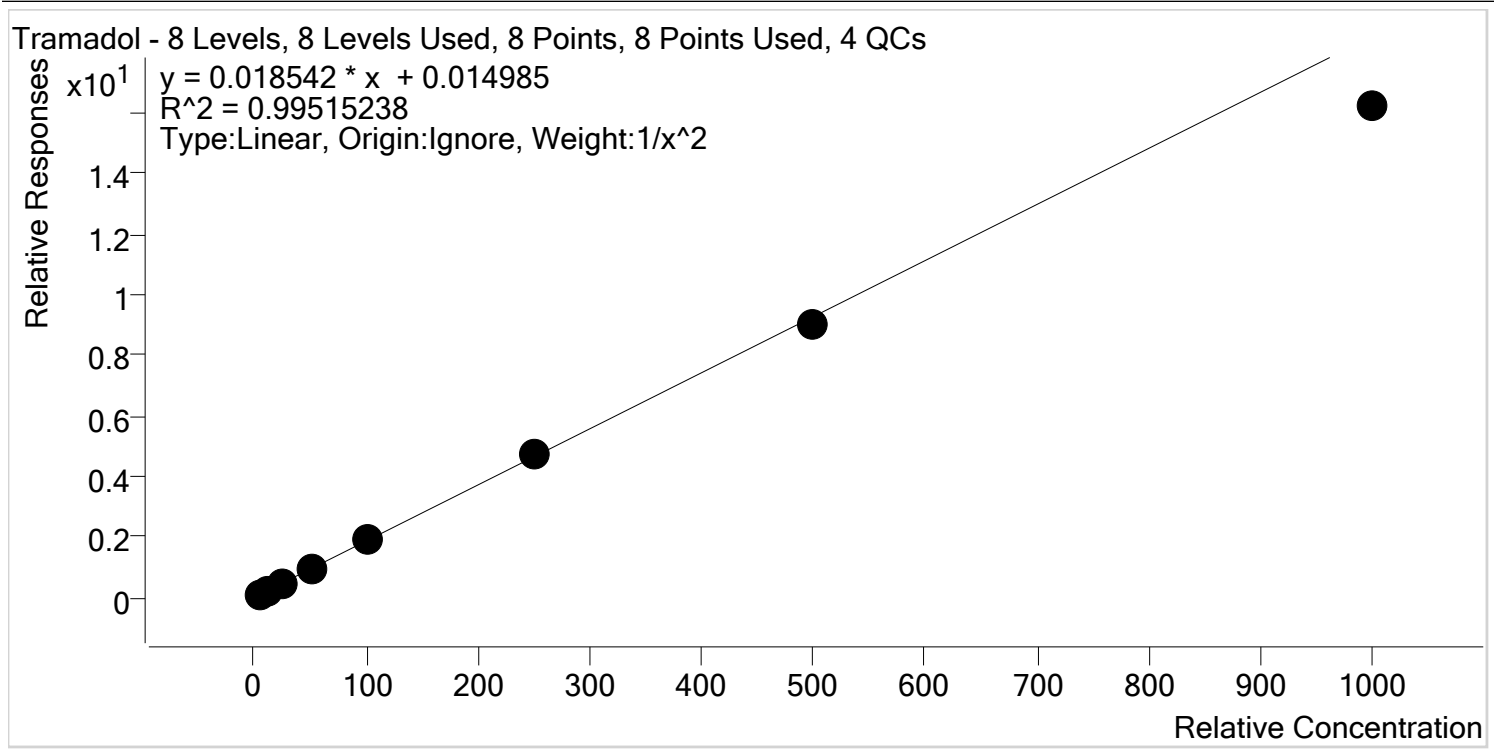
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.7 | 95.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.8 | 107.7 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.1 | 104.4 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.7 | 101.4 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 104.8 | 104.8 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 251.3 | 100.5 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 477.7 | 95.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 907.5 | 90.7 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3



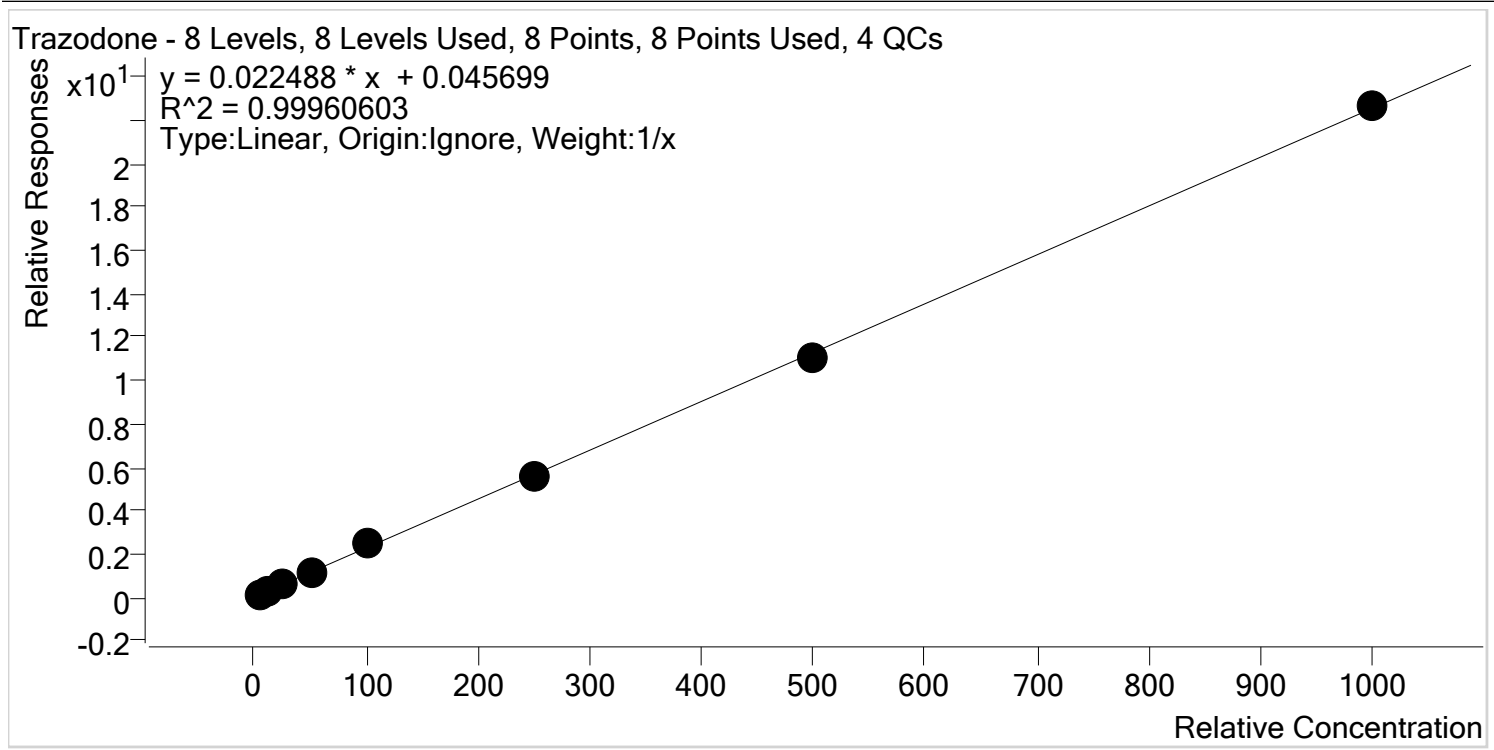
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 97.0 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 103.4 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.8 | 103.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 52.5 | 105.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 105.6 | 105.6 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 254.3 | 101.7 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 483.4 | 96.7 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 875.2 | 87.5 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6



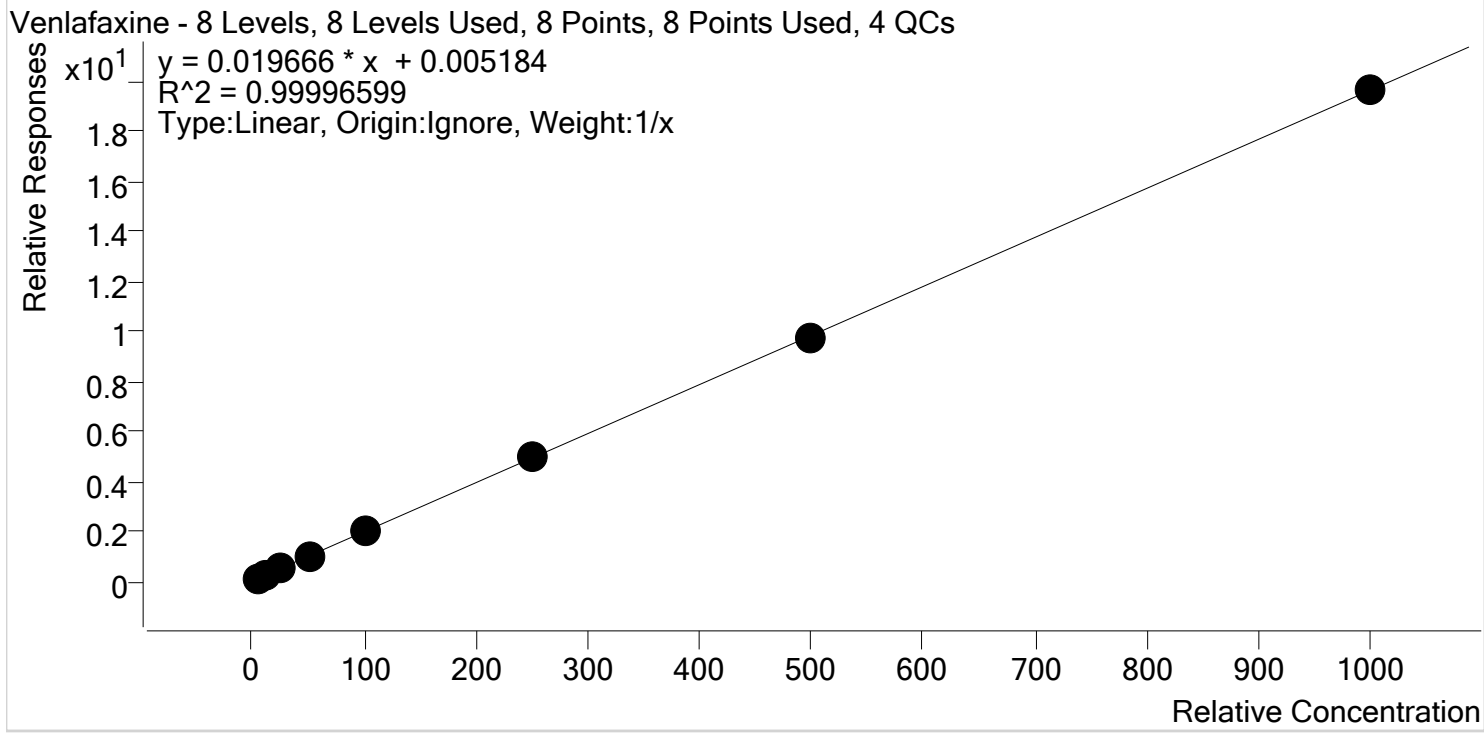
| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.2 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 9.9 | 98.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 24.2 | 96.8 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.5 | 103.0 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 106.5 | 106.5 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 247.8 | 99.1 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 490.9 | 98.2 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1004.3 | 100.4 |

CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.8 | 96.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.1 | 100.8 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 25.1 | 100.5 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 50.6 | 101.1 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 101.9 | 101.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 249.8 | 99.9 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 497.6 | 99.5 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 1000.2 | 100.0 |

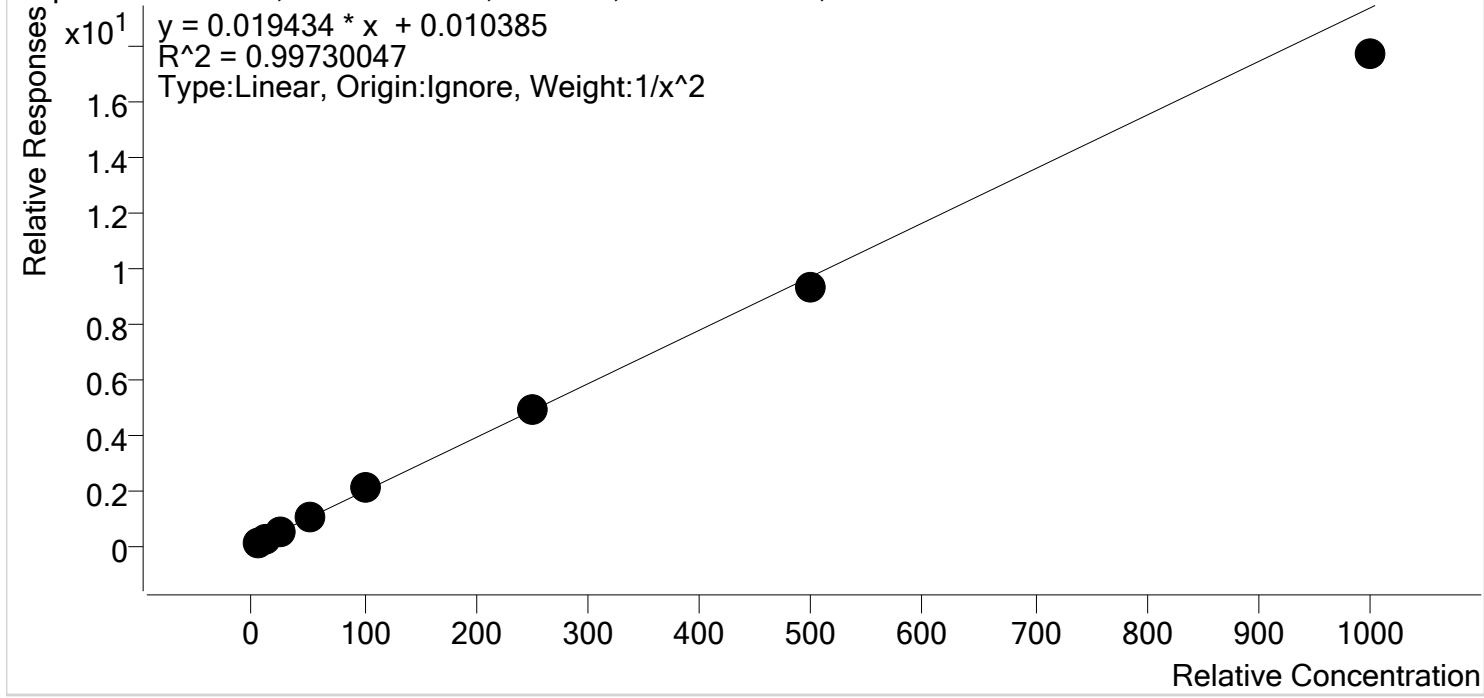
CS TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
Last Cal. Update 3/14/2019 2:28 PM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

Zolpidem - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



| Sample | Level | Enabled | Expected Concentration | Final Concentration | Accuracy |
|-----------------|-------|---------|------------------------|---------------------|----------|
| p1 Cal 1-5ng | 1 | ✓ | 5.0 | 4.9 | 97.3 |
| p1 Cal 2- 10ng | 2 | ✓ | 10.0 | 10.3 | 102.9 |
| p1 Cal 3 -25ng | 3 | ✓ | 25.0 | 26.0 | 104.1 |
| p1 Cal 4-50ng | 4 | ✓ | 50.0 | 51.3 | 102.6 |
| p1 Cal 5-100ng | 5 | ✓ | 100.0 | 103.9 | 103.9 |
| p1 Cal 6-250ng | 6 | ✓ | 250.0 | 252.9 | 101.2 |
| p1 Cal 7-500ng | 7 | ✓ | 500.0 | 482.8 | 96.6 |
| p1 Cal 8-1000ng | 8 | ✓ | 1000.0 | 913.6 | 91.4 |

CS TS



AM #28 Multi-Drug Quant. Results

Batch results
Calibration Last Update

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin
3/14/2019 2:28:44 PM

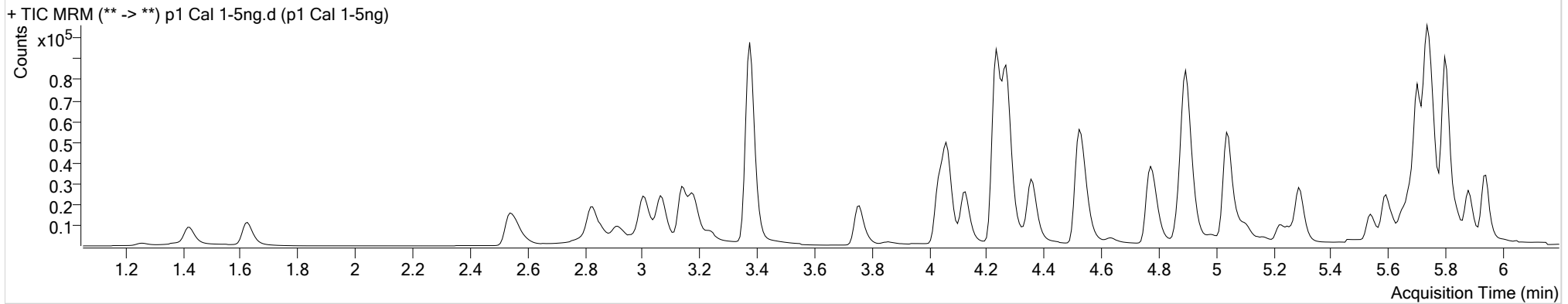
Instrument
Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

FALCO-LCMS (Property ID 069901)
Cal
MDQ P1 Combined 011619.m
P1-A5
1
3/13/2019 11:23:34 AM

Data File
Sample
Operator
Comment

p1 Cal 1-5ng.d
p1 Cal 1-5ng
Celena Shrum and Tamara Salazar
Worklist 3037

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|-------|----------|-------|---------|------------|--------------|
| Morphine | 1.266 | 910 | 377.24 | 22.9 | 402.12 | 2010 | 4.9052 ng/ml |
| Oxymorphone | 1.423 | 3237 | 195.25 | 49.2 | 108.51 | 23499 | 4.8682 ng/ml |
| Hydromorphone | 1.634 | 3557 | 398.07 | 75.0 | 575.84 | 25405 | 4.8740 ng/ml |
| Dihydrocodeine | 2.575 | 3611 | 110.87 | 67.3 | 1118.19 | 37401 | 4.7917 ng/ml |
| Codeine | 2.604 | 1437 | 3624.25 | 100.7 | 2191.01 | 13052 | 4.2366 ng/ml |
| Oxycodone | 2.853 | 7012 | 163.91 | 30.7 | 94.80 | 54804 | 4.8050 ng/ml |
| Noroxycodone | 2.935 | 2745 | 73.49 | 49.2 | 128.93 | 19305 | 4.7951 ng/ml |
| Hydrocodone | 3.038 | 3595 | 217.76 | 41.6 | 132.43 | 40200 | 4.8412 ng/ml |
| Amphetamine | 3.075 | 7076 | 418.72 | 57.6 | 263.76 | 19082 | 4.6954 ng/ml |
| Norhydrocodone | 3.080 | 633 | 145.04 | 49.7 | 45.28 | 42237 | 5.9249 ng/ml |
| 6-MAM | 3.151 | 975 | 419.50 | 73.1 | 236.48 | 57266 | 0.4593 ng/ml |
| Methamphetamine | 3.244 | 6431 | 119.53 | 41.3 | 67.71 | 48757 | 4.8422 ng/ml |
| O-desmethyl-tramadol | 3.386 | 22820 | 3990.14 | 6.3 | 7064.63 | 204725 | 4.8940 ng/ml |
| Phentermine | 3.787 | 2402 | 99.75 | 4.4 | 17.72 | 46341 | 4.6911 ng/ml |
| Benzoylcegonine | 3.876 | 443 | 11.55 | 8.1 | 30.16 | 2355 | 5.2822 ng/ml |
| Ketamine | 4.056 | 7488 | 444.71 | 37.4 | 153.59 | 68806 | 4.8268 ng/ml |
| Norfentanyl | 4.091 | 980 | 353.41 | 36.6 | 56.07 | 86259 | 0.5096 ng/ml |
| Dextrorphan | 4.129 | 2060 | 20885.49 | 211.4 | 631.21 | 47476 | 4.7635 ng/ml |

p1 Cal 1-5ng

CS TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|-------|-----------------|-------|-----------------|------------|--------------|
| Lamotrigine | 4.297 | 803 | 466.33 | 75.0 | ∞ | 68806 | 4.7266 ng/ml |
| Tramadol | 4.249 | 18911 | 1040.66 | 3.3 | 60.98 | 180296 | 4.8484 ng/ml |
| 7-aminoclonazepam | 4.253 | 2885 | ∞ | 78.7 | 863.42 | 24509 | 4.7277 ng/ml |
| Cocaine | 4.273 | 8043 | 2852.99 | 44.7 | 2868.76 | 150379 | 4.8341 ng/ml |
| Metoprolol | 4.329 | 1817 | 4229.39 | 99.5 | ∞ | 180296 | 4.7936 ng/ml |
| alpha-PVP | 4.366 | 6736 | 343.56 | 53.3 | 504.72 | 60339 | 4.7990 ng/ml |
| Doxylamine | 4.542 | 14877 | 10794.68 | 96.9 | 10340.64 | 131153 | 4.4333 ng/ml |
| Mirtazapine | 4.630 | 3067 | 1361.36 | 47.2 | 1348.39 | 60339 | 4.9082 ng/ml |
| Bupropion | 4.796 | 11953 | 1103.03 | 59.0 | ∞ | 82751 | 4.6312 ng/ml |
| Meprobamate | 4.906 | 5455 | 1448.84 | 28.7 | 243.77 | 50247 | 4.6634 ng/ml |
| Zolpidem | 4.917 | 16605 | 127.74 | 31.4 | 3669.81 | 158218 | 4.8659 ng/ml |
| Norbuprenorphine | 4.995 | 94 | 5.03 Low | 72.1 | 9.64 Low | 3658 | 0.6567 ng/ml |
| Venlafaxine | 5.046 | 10808 | 1261.95 | 38.9 | 166.06 | 108193 | 4.8160 ng/ml |
| Fentanyl | 5.093 | 141 | 10.92 | 79.0 | ∞ | 10618 | 0.5183 ng/ml |
| Trazodone | 5.168 | 2025 | 141.55 | 80.4 | ∞ | 13067 | 4.8595 ng/ml |
| Mitragynine | 5.228 | 315 | 430.54 | 43.9 | ∞ | 21330 | 4.7073 ng/ml |
| Citalopram | 5.229 | 1875 | 182.40 | 40.9 | 890.25 | 13946 | 5.0015 ng/ml |
| EDDP | 5.257 | 518 | 28.88 | 47.4 | 40.81 | 4588 | 4.9103 ng/ml |
| Dextromethorphan | 5.271 | 1135 | 282.22 | 72.2 | 464.80 | 8115 | 5.3980 ng/ml |
| Diphenhydramine | 5.299 | 5569 | 1174.92 | 32.8 | 453.87 | 48373 | 5.1256 ng/ml |
| Promethazine | 5.541 | 2140 | 84.02 | 28.1 | 95.83 | 16860 | 4.8698 ng/ml |
| Quetiapine | 5.557 | 2369 | 787.38 | 63.1 | ∞ | 5582 | 4.9997 ng/ml |
| Clonazepam | 5.600 | 5926 | 360.53 | 34.9 | 711.31 | 18852 | 4.6761 ng/ml |
| Cyclobenzaprine | 5.624 | 1288 | 2847.67 | 11.1 | 10.91 | 9093 | 4.8498 ng/ml |
| Methadone | 5.655 | 2446 | 223.64 | 50.9 | 40.11 | 21330 | 4.7885 ng/ml |
| a-hydroxyalprazolam | 5.681 | 3958 | 443.49 | 63.3 | 321.87 | 37161 | 4.8643 ng/ml |
| Carisoprodol | 5.713 | 10518 | 625.62 | 56.3 | 142.24 | 106792 | 4.8615 ng/ml |
| Fluoxetine | 5.710 | 1714 | 220.20 | 9.3 | 259.32 | 9524 | 4.7532 ng/ml |
| Lorazepam | 5.736 | 14071 | 391.25 | 51.8 | 56.22 | 18852 | 4.7751 ng/ml |
| Oxazepam | 5.746 | 16081 | 106.44 | 67.3 | 264.41 | 121665 | 4.6897 ng/ml |
| Alprazolam | 5.765 | 8464 | 1097.62 | 101.2 | 415.73 | 50307 | 4.9010 ng/ml |
| Sertraline | 5.779 | 975 | 56.06 | 85.7 | 596.32 | 6457 | 4.9649 ng/ml |
| Temazepam | 5.807 | 16588 | 412.06 | 29.4 | 177.95 | 144394 | 4.7486 ng/ml |
| Buprenorphine | 5.864 | 243 | 2.20 Low | 15.8 | 10.23 | 14913 | 0.5911 ng/ml |
| Nordiazepam | 5.890 | 5457 | 1020.78 | 61.7 | 968.54 | 33599 | 4.8237 ng/ml |
| Diazepam | 5.944 | 5343 | 345.44 | 87.0 | 3188.76 | 48716 | 4.7926 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin

Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 Cal 2- 10ng.d

Type

Cal

Sample

p1 Cal 2- 10ng

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-B5

Comment

Worklist 3037

Injection Volume

1

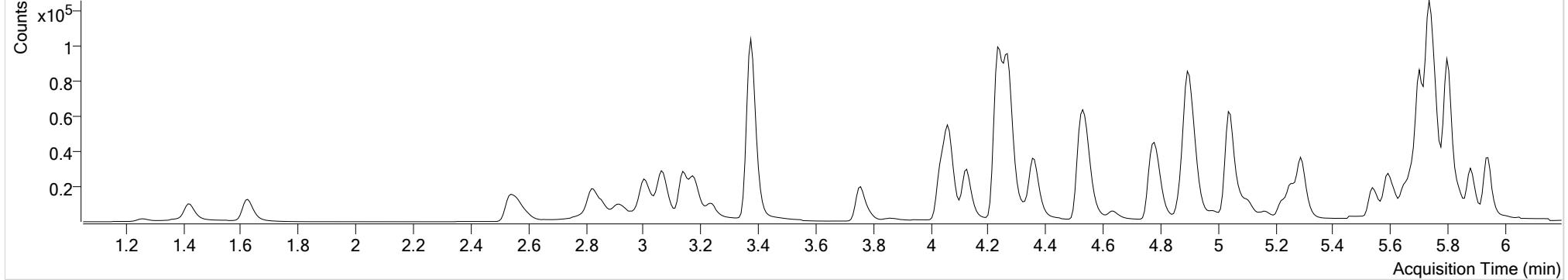
Acq. Date-Time

3/13/2019 11:34:12 AM

Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 2- 10ng.d (p1 Cal 2- 10ng)



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|-------|----------|-------|---------|------------|---------------|
| Morphine | 1.266 | 1785 | 11708.35 | 24.1 | ∞ | 2031 | 10.1200 ng/ml |
| Oxymorphone | 1.423 | 6432 | 595.10 | 47.6 | 229.12 | 22539 | 10.4776 ng/ml |
| Hydromorphone | 1.634 | 6842 | 358.86 | 75.3 | 810.51 | 24279 | 10.3579 ng/ml |
| Dihydrocodeine | 2.569 | 7089 | 6626.31 | 68.1 | 5691.20 | 36296 | 10.4699 ng/ml |
| Codeine | 2.597 | 2903 | 5218.01 | 100.8 | 1073.36 | 12455 | 10.2431 ng/ml |
| Oxycodone | 2.853 | 13031 | 124.55 | 32.4 | 99.66 | 51940 | 10.4522 ng/ml |
| Noroxycodone | 2.935 | 5322 | 327.64 | 50.3 | 368.70 | 18539 | 10.5417 ng/ml |
| Hydrocodone | 3.038 | 7091 | 315.87 | 39.3 | 38.72 | 40730 | 10.2568 ng/ml |
| Amphetamine | 3.075 | 14931 | 232.27 | 55.5 | 418.63 | 19510 | 10.9796 ng/ml |
| Norhydrocodone | 3.087 | 1514 | 107.65 | 42.6 | 50.04 | 41032 | 9.8813 ng/ml |
| 6-MAM | 3.151 | 1948 | 321.51 | 66.2 | 562.35 | 55390 | 1.0297 ng/ml |
| Methamphetamine | 3.244 | 12202 | 204.41 | 40.0 | 191.76 | 48588 | 10.4759 ng/ml |
| O-desmethyl-tramadol | 3.386 | 44882 | 3620.47 | 6.7 | 371.52 | 196037 | 10.3531 ng/ml |
| Phentermine | 3.794 | 5033 | 59.92 | 3.9 | 15.46 | 47515 | 10.7254 ng/ml |
| Benzoylcegonine | 3.876 | 800 | 1551.42 | 8.0 | 29.96 | 2321 | 10.3358 ng/ml |
| Ketamine | 4.056 | 14633 | 443.24 | 36.8 | 360.32 | 66024 | 10.4842 ng/ml |
| Norfentanyl | 4.091 | 2122 | 485.17 | 37.1 | 62.73 | 91016 | 0.9949 ng/ml |
| Dextrorphan | 4.129 | 4283 | 12387.72 | 204.2 | ∞ | 48492 | 10.1849 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|-------|-----------------|-------|---------|------------|---------------|
| Lamotrigine | 4.297 | 1594 | 299.20 | 76.0 | 947.67 | 66024 | 10.6018 ng/ml |
| Tramadol | 4.249 | 36686 | 28163.02 | 3.4 | 64.68 | 177490 | 10.3389 ng/ml |
| 7-aminoclonazepam | 4.253 | 6209 | 2502.23 | 81.4 | 4014.44 | 24835 | 10.7845 ng/ml |
| Cocaine | 4.273 | 15617 | 15549.97 | 42.9 | 262.71 | 145350 | 10.1744 ng/ml |
| Metoprolol | 4.329 | 3866 | ∞ | 93.4 | 1372.05 | 177490 | 10.6187 ng/ml |
| alpha-PVP | 4.373 | 13441 | 3784.54 | 53.1 | 1936.42 | 60947 | 9.9567 ng/ml |
| Doxylamine | 4.542 | 31555 | 46540.59 | 96.7 | 263.21 | 136794 | 10.0538 ng/ml |
| Mirtazapine | 4.637 | 6180 | ∞ | 47.9 | 415.92 | 60947 | 10.5931 ng/ml |
| Bupropion | 4.796 | 25232 | 2576.91 | 59.3 | 289.54 | 88892 | 10.0075 ng/ml |
| Meprobamate | 4.906 | 10654 | 118.87 | 26.8 | ∞ | 46635 | 10.9291 ng/ml |
| Zolpidem | 4.924 | 32676 | 30613.79 | 31.6 | 124.11 | 155338 | 10.2894 ng/ml |
| Norbuprenorphine | 4.995 | 148 | 9.69 Low | 95.6 | 21.20 | 4295 | 1.0525 ng/ml |
| Venlafaxine | 5.046 | 22605 | 2877.62 | 38.6 | 294.56 | 111129 | 10.0796 ng/ml |
| Fentanyl | 5.093 | 276 | 163.19 | 78.8 | 148.60 | 13224 | 0.9284 ng/ml |
| Trazodone | 5.168 | 4127 | ∞ | 78.6 | 117.40 | 15408 | 9.8796 ng/ml |
| Mitragynine | 5.228 | 814 | 4497.36 | 39.2 | 490.56 | 23572 | 11.0229 ng/ml |
| Citalopram | 5.229 | 3563 | 257.06 | 43.3 | 2456.58 | 14964 | 9.7249 ng/ml |
| EDDP | 5.257 | 4657 | 3087.73 | 41.3 | 3097.98 | 22917 | 9.6203 ng/ml |
| Dextromethorphan | 5.265 | 2152 | 162.75 | 79.9 | 2943.14 | 9878 | 9.2706 ng/ml |
| Diphenhydramine | 5.292 | 11008 | 3043.29 | 35.0 | 881.45 | 54609 | 9.7924 ng/ml |
| Promethazine | 5.541 | 5271 | 557.95 | 28.1 | 103.97 | 20323 | 10.5047 ng/ml |
| Quetiapine | 5.557 | 4752 | ∞ | 60.0 | 9191.31 | 6036 | 10.0598 ng/ml |
| Clonazepam | 5.600 | 11496 | 1904.85 | 34.9 | ∞ | 17765 | 10.7467 ng/ml |
| Cyclobenzaprine | 5.624 | 2994 | 255.94 | 12.0 | 110.55 | 10685 | 10.7008 ng/ml |
| Methadone | 5.655 | 5148 | 311.41 | 52.9 | 261.51 | 23572 | 10.0533 ng/ml |
| a-hydroxyalprazolam | 5.681 | 7333 | 1079.91 | 67.6 | 516.63 | 35784 | 10.0997 ng/ml |
| Carisoprodol | 5.713 | 20132 | 3728.28 | 58.0 | ∞ | 102155 | 10.3129 ng/ml |
| Fluoxetine | 5.710 | 3638 | 219.38 | 8.3 | 337.11 | 12258 | 9.4779 ng/ml |
| Lorazepam | 5.736 | 25406 | 396.18 | 58.6 | 218.74 | 17765 | 10.7577 ng/ml |
| Oxazepam | 5.746 | 30363 | 817.85 | 70.8 | 133.69 | 113205 | 10.7371 ng/ml |
| Alprazolam | 5.758 | 15924 | 512.98 | 104.8 | 1493.84 | 47217 | 10.0190 ng/ml |
| Sertraline | 5.779 | 1952 | 99.92 | 89.2 | 160.65 | 7622 | 9.4380 ng/ml |
| Temazepam | 5.807 | 31103 | 486.93 | 30.8 | 244.53 | 128984 | 10.7711 ng/ml |
| Buprenorphine | 5.864 | 413 | 32.38 | 15.6 | 42.90 | 16328 | 1.0000 ng/ml |
| Nordiazepam | 5.890 | 10695 | 678.95 | 57.3 | 496.10 | 32626 | 10.2901 ng/ml |
| Diazepam | 5.944 | 10361 | 1777.58 | 83.9 | 394.28 | 44935 | 10.7032 ng/ml |

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin

Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 Cal 3 -25ng.d

Type

Cal

Sample

p1 Cal 3 -25ng

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-C5

Comment

Worklist 3037

Injection Volume

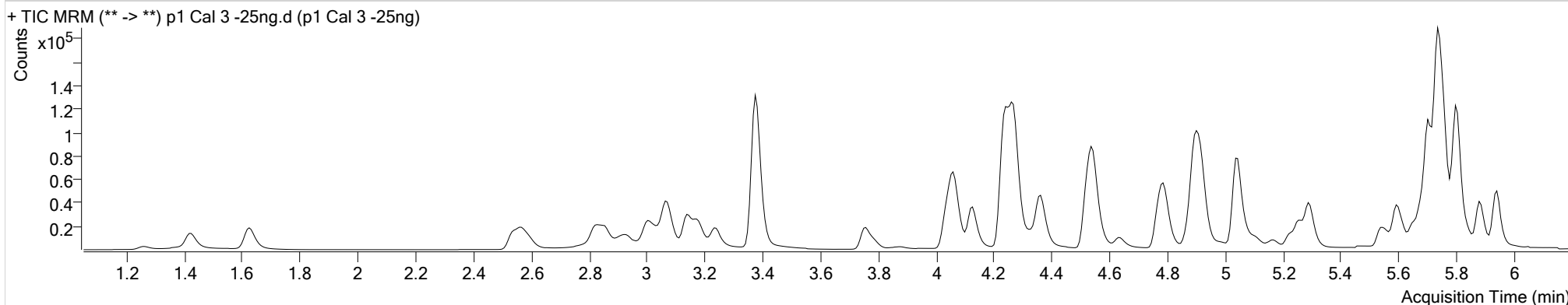
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Acq. Date-Time

3/13/2019 11:44:39 AM

Sample Info.

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|-----------|-------|----------|------------|---------------|
| Morphine | 1.266 | 4293 | 1893.39 | 23.3 | 16551.64 | 1966 | 26.0855 ng/ml |
| Oxymorphone | 1.423 | 14798 | 859.89 | 50.1 | 603.22 | 22286 | 24.8645 ng/ml |
| Hydromorphone | 1.634 | 16406 | 679.74 | 75.7 | 492.80 | 24396 | 25.4645 ng/ml |
| Dihydrocodeine | 2.569 | 17441 | 323641.39 | 67.3 | 33731.58 | 36644 | 26.6107 ng/ml |
| Codeine | 2.597 | 6880 | 250.19 | 102.3 | 22228.68 | 12425 | 25.9060 ng/ml |
| Oxycodone | 2.853 | 32072 | 6888.11 | 31.2 | 96.70 | 53930 | 26.2462 ng/ml |
| Noroxycodone | 2.935 | 12954 | 155.09 | 50.0 | 1447.74 | 18890 | 26.3567 ng/ml |
| Hydrocodone | 3.038 | 17370 | 1443.85 | 39.2 | 246.57 | 40593 | 26.4956 ng/ml |
| Amphetamine | 3.075 | 31384 | 460.17 | 59.7 | 1508.83 | 18760 | 25.4369 ng/ml |
| Norhydrocodone | 3.087 | 4004 | 167.12 | 44.8 | 91.31 | 40564 | 21.0508 ng/ml |
| 6-MAM | 3.151 | 4573 | 5900.56 | 68.5 | 1316.62 | 55284 | 2.5249 ng/ml |
| Methamphetamine | 3.237 | 26470 | 438.78 | 42.7 | 329.91 | 46593 | 25.4533 ng/ml |
| O-desmethyl-tramadol | 3.386 | 108903 | 4688.49 | 6.5 | 569.08 | 198173 | 25.2503 ng/ml |
| Phentermine | 3.794 | 11264 | 315.63 | 3.9 | 166.24 | 45051 | 26.8042 ng/ml |
| Benzoylcegonine | 3.876 | 1824 | 1792.84 | 7.4 | 101.11 | 2301 | 24.8142 ng/ml |
| Ketamine | 4.056 | 34424 | 2187.87 | 36.8 | 548.07 | 65411 | 25.7621 ng/ml |
| Norfentanyl | 4.091 | 5486 | 5542.00 | 37.4 | 255.30 | 94945 | 2.3941 ng/ml |
| Dextrorphan | 4.129 | 9796 | 1822.62 | 206.6 | 3384.09 | 45979 | 25.2286 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|-------|----------|-------|----------|------------|---------------|
| Lamotrigine | 4.297 | 3817 | 1003.01 | 78.3 | 2896.40 | 65411 | 26.7323 ng/ml |
| Tramadol | 4.249 | 87119 | 29131.42 | 3.5 | 353.34 | 176801 | 25.7662 ng/ml |
| 7-aminoclonazepam | 4.253 | 15460 | 5848.61 | 82.0 | 3690.19 | 26401 | 26.1517 ng/ml |
| Cocaine | 4.273 | 37658 | 35006.36 | 44.0 | 7990.49 | 146039 | 25.0604 ng/ml |
| Metoprolol | 4.329 | 9153 | 34795.65 | 94.6 | 64110.72 | 176801 | 25.5433 ng/ml |
| alpha-PVP | 4.373 | 31082 | 1983.62 | 52.0 | 370.53 | 57460 | 25.1297 ng/ml |
| Doxylamine | 4.542 | 73973 | 17431.02 | 96.9 | 13932.64 | 133345 | 25.5896 ng/ml |
| Mirtazapine | 4.637 | 12413 | 5404.92 | 47.3 | ∞ | 57460 | 23.4792 ng/ml |
| Bupropion | 4.796 | 54451 | ∞ | 59.7 | 1353.15 | 80166 | 25.2551 ng/ml |
| Meprobamate | 4.906 | 25459 | 381.50 | 26.8 | 1621.76 | 47021 | 27.2847 ng/ml |
| Zolpidem | 4.924 | 81237 | 21300.86 | 31.1 | 7037.80 | 157315 | 26.0369 ng/ml |
| Norbuprenorphine | 4.988 | 235 | 12.62 | 92.6 | 10.29 | 3638 | 2.3818 ng/ml |
| Venlafaxine | 5.046 | 53818 | 1656.00 | 37.1 | 270.71 | 107835 | 25.1138 ng/ml |
| Fentanyl | 5.093 | 497 | 267.68 | 74.2 | ∞ | 10219 | 2.4238 ng/ml |
| Trazodone | 5.168 | 7410 | 21647.92 | 80.2 | ∞ | 12561 | 24.2026 ng/ml |
| Mitragynine | 5.228 | 1535 | 1781.34 | 35.0 | 1084.15 | 19281 | 25.4274 ng/ml |
| Citalopram | 5.229 | 7342 | 753.57 | 41.2 | 7886.81 | 12791 | 25.0204 ng/ml |
| EDDP | 5.257 | 10290 | ∞ | 41.1 | 1272.43 | 20740 | 24.8776 ng/ml |
| Dextromethorphan | 5.271 | 4002 | 166.31 | 80.2 | 1243.21 | 7700 | 24.2753 ng/ml |
| Diphenhydramine | 5.299 | 22046 | 4936.25 | 34.7 | 126.48 | 46810 | 24.3355 ng/ml |
| Promethazine | 5.541 | 8714 | ∞ | 31.0 | 729.40 | 14499 | 25.0463 ng/ml |
| Quetiapine | 5.557 | 9999 | 1265.44 | 59.0 | ∞ | 5498 | 24.4465 ng/ml |
| Clonazepam | 5.600 | 27710 | 3580.09 | 33.7 | 15874.42 | 18077 | 26.9053 ng/ml |
| Cyclobenzaprine | 5.624 | 5009 | 622.97 | 9.6 | 110.59 | 8355 | 24.1802 ng/ml |
| Methadone | 5.655 | 9995 | 2034.83 | 51.7 | 313.03 | 19281 | 25.2766 ng/ml |
| a-hydroxyalprazolam | 5.681 | 18036 | 1130.92 | 66.0 | 1349.96 | 35101 | 26.5305 ng/ml |
| Carisoprodol | 5.713 | 48832 | 2028.55 | 56.9 | 3406.91 | 102103 | 25.8619 ng/ml |
| Fluoxetine | 5.710 | 6890 | 2401.73 | 9.2 | ∞ | 9750 | 26.0464 ng/ml |
| Lorazepam | 5.736 | 57621 | 708.02 | 57.7 | 233.10 | 18077 | 26.1347 ng/ml |
| Oxazepam | 5.746 | 69293 | 3884.36 | 69.8 | 169.53 | 109126 | 27.0419 ng/ml |
| Alprazolam | 5.758 | 39798 | 725.33 | 102.8 | 850.99 | 47362 | 25.2510 ng/ml |
| Sertraline | 5.779 | 3584 | 60.97 | 91.0 | 214.10 | 5763 | 25.0029 ng/ml |
| Temazepam | 5.807 | 75414 | 511.55 | 29.0 | 158.30 | 134084 | 26.0968 ng/ml |
| Buprenorphine | 5.871 | 729 | 57.21 | 15.9 | 51.31 | 12643 | 2.4741 ng/ml |
| Nordiazepam | 5.890 | 25596 | 31430.99 | 56.2 | 2372.19 | 30905 | 26.8305 ng/ml |
| Diazepam | 5.944 | 23917 | 556.64 | 88.3 | 912.82 | 45688 | 25.0226 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



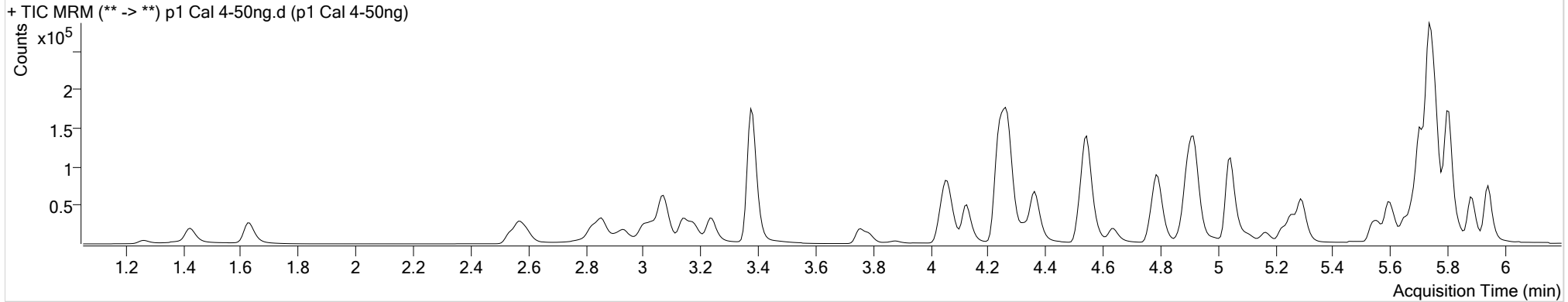
Batch results
Calibration Last Update

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3/14/2019 2:28:44 PM

Instrument FALCO-LCMS (Property ID 069901)
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-D5
Injection Volume 1
Acq. Date-Time 3/13/2019 11:55:06 AM
Sample Info.

Data File p1 Cal 4-50ng.d
Sample p1 Cal 4-50ng
Operator Celena Shrum and Tamara Salazar
Comment Worklist 3037

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|----------|-------|---------|------------|---------------|
| Morphine | 1.266 | 8197 | ∞ | 23.1 | 1290.95 | 1933 | 51.2517 ng/ml |
| Oxymorphone | 1.423 | 28709 | 879.50 | 49.5 | 562.23 | 21270 | 50.9219 ng/ml |
| Hydromorphone | 1.634 | 31420 | 544.36 | 73.4 | 552.38 | 23585 | 50.9753 ng/ml |
| Dihydrocodeine | 2.575 | 33575 | 22703.52 | 67.7 | 938.24 | 36420 | 52.2557 ng/ml |
| Codeine | 2.597 | 13099 | 431.77 | 101.3 | 426.46 | 12223 | 51.2004 ng/ml |
| Oxycodone | 2.853 | 63244 | 2804.88 | 31.3 | 1159.95 | 54822 | 51.9229 ng/ml |
| Noroxycodone | 2.935 | 24244 | 196.04 | 49.9 | 202.40 | 18350 | 51.5610 ng/ml |
| Hydrocodone | 3.038 | 33757 | 1378.48 | 39.0 | 125.82 | 40232 | 52.7979 ng/ml |
| Amphetamine | 3.075 | 66277 | 1755.20 | 55.1 | 5446.21 | 19227 | 53.6992 ng/ml |
| Norhydrocodone | 3.087 | 9275 | 481.33 | 41.4 | 290.59 | 39775 | 45.3435 ng/ml |
| 6-MAM | 3.151 | 9000 | 1538.54 | 69.8 | 2730.77 | 55670 | 5.0063 ng/ml |
| Methamphetamine | 3.237 | 52827 | 1558.32 | 42.9 | 715.27 | 47978 | 50.6365 ng/ml |
| O-desmethyl-tramadol | 3.386 | 214557 | 25474.29 | 6.5 | 5516.53 | 196355 | 50.4902 ng/ml |
| Phentermine | 3.787 | 22821 | 2194.21 | 3.8 | 114.63 | 46125 | 54.1083 ng/ml |
| Benzoylcegonine | 3.876 | 3503 | 279.40 | 8.0 | 40.18 | 2292 | 48.6094 ng/ml |
| Ketamine | 4.056 | 67830 | 8656.29 | 36.9 | 384.83 | 65522 | 51.2862 ng/ml |
| Norfentanyl | 4.091 | 10395 | 358.23 | 36.4 | 325.22 | 91207 | 4.6754 ng/ml |
| Dextrorphan | 4.129 | 19627 | 38998.44 | 207.6 | 1187.32 | 47185 | 49.7004 ng/ml |

p1 Cal 4-50ng

CS TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|-----------|-------|----------|------------|---------------|
| Lamotrigine | 4.297 | 7619 | 2008.17 | 80.6 | ∞ | 65522 | 54.0378 ng/ml |
| Tramadol | 4.249 | 171423 | 16685.79 | 3.5 | 281.56 | 173356 | 52.5213 ng/ml |
| 7-aminoclonazepam | 4.253 | 30075 | 7102.12 | 80.0 | 15211.36 | 25787 | 52.7449 ng/ml |
| Cocaine | 4.266 | 74756 | 197302.22 | 43.9 | 23928.48 | 147164 | 49.8127 ng/ml |
| Metoprolol | 4.329 | 17988 | 38060.65 | 93.8 | 2625.44 | 173356 | 51.4203 ng/ml |
| alpha-PVP | 4.373 | 62340 | 13432.46 | 52.0 | 528.14 | 59067 | 49.4949 ng/ml |
| Doxylamine | 4.542 | 146340 | 115234.93 | 98.0 | 71154.93 | 134991 | 50.9646 ng/ml |
| Mirtazapine | 4.637 | 26637 | 16028.55 | 47.1 | ∞ | 59067 | 49.8920 ng/ml |
| Bupropion | 4.796 | 108653 | 942.44 | 59.3 | 331.05 | 81030 | 50.7720 ng/ml |
| Meprobamate | 4.906 | 47920 | 7795.36 | 27.6 | 1294.98 | 46477 | 52.8716 ng/ml |
| Zolpidem | 4.924 | 161379 | 31254.76 | 31.0 | 223.54 | 160148 | 51.3165 ng/ml |
| Norbuprenorphine | 4.995 | 477 | 322.81 | 95.6 | 74.34 | 3925 | 4.9127 ng/ml |
| Venlafaxine | 5.046 | 109862 | 1634.49 | 37.2 | 665.24 | 109924 | 50.5560 ng/ml |
| Fentanyl | 5.100 | 1132 | 782.95 | 67.8 | 889.55 | 11182 | 5.2576 ng/ml |
| Trazodone | 5.168 | 16292 | 10601.52 | 76.9 | ∞ | 13539 | 51.4776 ng/ml |
| Mitragynine | 5.228 | 3508 | 14007.48 | 36.4 | 2193.31 | 22319 | 50.2118 ng/ml |
| Citalopram | 5.229 | 16022 | 16001.64 | 42.2 | 19749.45 | 14215 | 50.2155 ng/ml |
| EDDP | 5.257 | 21886 | 1929.85 | 41.1 | 9262.63 | 22194 | 50.3965 ng/ml |
| Dextromethorphan | 5.271 | 8825 | 9340.80 | 80.6 | 568.30 | 8527 | 49.8802 ng/ml |
| Diphenhydramine | 5.299 | 46262 | 340.84 | 34.6 | 336.66 | 49399 | 49.4681 ng/ml |
| Promethazine | 5.541 | 20353 | 4593.54 | 28.7 | 424.69 | 17217 | 49.7784 ng/ml |
| Quetiapine | 5.557 | 21589 | ∞ | 58.0 | 56965.48 | 6049 | 48.8666 ng/ml |
| Clonazepam | 5.600 | 52673 | ∞ | 35.0 | 3637.60 | 17258 | 54.6172 ng/ml |
| Cyclobenzaprine | 5.624 | 11794 | 2939.10 | 10.9 | 189.62 | 9613 | 50.6580 ng/ml |
| Methadone | 5.655 | 21918 | 1659.83 | 50.0 | 1704.73 | 22319 | 48.8050 ng/ml |
| a-hydroxyalprazolam | 5.681 | 34939 | 1190.17 | 66.3 | 896.25 | 34244 | 53.4716 ng/ml |
| Carisoprodol | 5.713 | 94096 | 6775.28 | 56.4 | 751.67 | 98579 | 52.1980 ng/ml |
| Fluoxetine | 5.710 | 14123 | 2967.14 | 10.5 | 1259.76 | 11053 | 49.1328 ng/ml |
| Lorazepam | 5.736 | 105668 | 1370.04 | 56.7 | 1147.34 | 17258 | 51.8169 ng/ml |
| Oxazepam | 5.739 | 131602 | 3103.08 | 69.7 | 695.25 | 106861 | 53.5606 ng/ml |
| Alprazolam | 5.758 | 79280 | 927.41 | 102.1 | 1261.18 | 48622 | 49.1804 ng/ml |
| Sertraline | 5.779 | 8262 | 1060.25 | 86.8 | 741.07 | 6691 | 51.0791 ng/ml |
| Temazepam | 5.807 | 149085 | 2056.66 | 30.1 | 668.27 | 138301 | 50.6878 ng/ml |
| Buprenorphine | 5.864 | 1582 | 95.26 | 18.0 | 348.89 | 13864 | 5.0487 ng/ml |
| Nordiazepam | 5.890 | 50787 | 2942.53 | 57.7 | 8427.31 | 31766 | 52.3003 ng/ml |
| Diazepam | 5.944 | 49859 | 988.86 | 85.8 | 463.96 | 46103 | 52.3018 ng/ml |

g TS

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin

Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 Cal 5-100ng.d

Type

Cal

Sample

p1 Cal 5-100ng

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-E5

Comment

Worklist 3037

Injection Volume

1

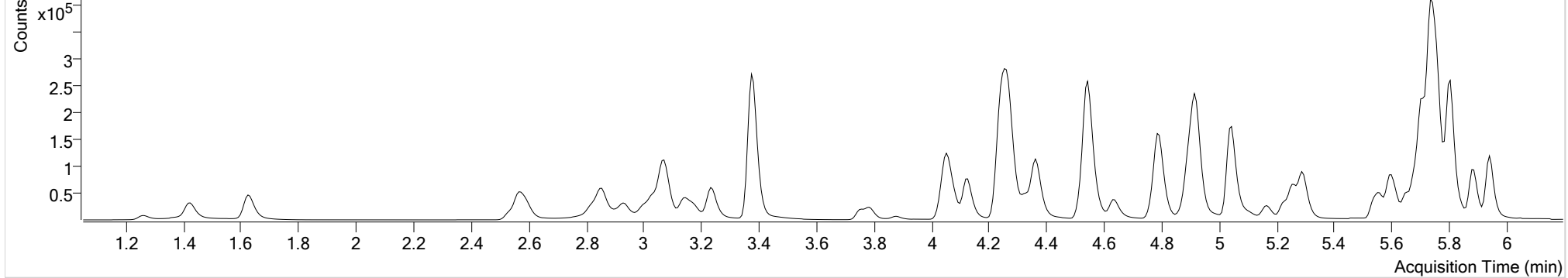
Acq. Date-Time

3/13/2019 12:05:34 PM

Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 5-100ng.d (p1 Cal 5-100ng)



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|--------|----------|-------|----------|------------|----------------|
| Morphine | 1.266 | 16246 | 3477.10 | 23.4 | ∞ | 1886 | 104.7975 ng/ml |
| Oxymorphone | 1.423 | 56073 | ∞ | 47.6 | 325.68 | 20348 | 104.3448 ng/ml |
| Hydromorphone | 1.628 | 62093 | 3675.05 | 75.4 | 1834.64 | 22884 | 104.3834 ng/ml |
| Dihydrocodeine | 2.569 | 67929 | 77642.27 | 67.9 | 25224.40 | 36661 | 105.7927 ng/ml |
| Codeine | 2.597 | 26071 | 405.87 | 100.6 | 26228.47 | 11868 | 106.1512 ng/ml |
| Oxycodone | 2.853 | 126797 | ∞ | 31.7 | 1828.79 | 53226 | 108.3616 ng/ml |
| Noroxycodone | 2.928 | 47907 | ∞ | 51.1 | 751.99 | 18617 | 101.2251 ng/ml |
| Hydrocodone | 3.032 | 67073 | 3601.41 | 39.9 | 146.23 | 40193 | 105.8777 ng/ml |
| Amphetamine | 3.075 | 133983 | 3815.02 | 55.1 | 2870.53 | 19753 | 106.8366 ng/ml |
| Norhydrocodone | 3.080 | 24806 | 809.59 | 43.6 | 210.62 | 42851 | 107.7995 ng/ml |
| 6-MAM | 3.151 | 18700 | ∞ | 70.0 | 2903.97 | 55899 | 10.4411 ng/ml |
| Methamphetamine | 3.237 | 102735 | 1617.89 | 41.4 | ∞ | 44888 | 106.7510 ng/ml |
| O-desmethyl-tramadol | 3.379 | 432786 | 51496.79 | 6.6 | 4630.01 | 197185 | 101.7038 ng/ml |
| Phentermine | 3.787 | 44757 | 510.36 | 3.8 | 338.26 | 45654 | 108.2874 ng/ml |
| Benzoylcegonine | 3.876 | 7202 | 248.58 | 7.5 | 306.55 | 2354 | 98.0819 ng/ml |
| Ketamine | 4.049 | 136152 | 6394.85 | 37.1 | 666.37 | 64852 | 104.6561 ng/ml |
| Norfentanyl | 4.091 | 23807 | 357.99 | 37.5 | 393.08 | 101343 | 9.5856 ng/ml |
| Dextrorphan | 4.129 | 39309 | 3051.39 | 205.5 | 3749.51 | 46152 | 102.2617 ng/ml |

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|-----------|-------|----------|------------|----------------|
| Lamotrigine | 4.297 | 14917 | 11969.19 | 78.5 | 7435.06 | 64852 | 107.6489 ng/ml |
| Tramadol | 4.249 | 338889 | 19912.60 | 3.5 | 762.53 | 171742 | 105.6103 ng/ml |
| 7-aminoclonazepam | 4.253 | 62792 | 261.99 | 80.0 | 9859.68 | 27109 | 105.4056 ng/ml |
| Cocaine | 4.266 | 146977 | 108910.74 | 44.8 | 21530.03 | 143036 | 101.2316 ng/ml |
| Metoprolol | 4.329 | 37115 | 40696.22 | 93.1 | 7398.89 | 171742 | 107.3300 ng/ml |
| alpha-PVP | 4.366 | 129435 | 12122.91 | 51.3 | 8111.30 | 58375 | 104.5200 ng/ml |
| Doxylamine | 4.542 | 301312 | 39108.39 | 97.1 | 92996.51 | 136253 | 105.0079 ng/ml |
| Mirtazapine | 4.637 | 51639 | ∞ | 48.1 | 38520.33 | 58375 | 98.6449 ng/ml |
| Bupropion | 4.796 | 221193 | 43696.93 | 59.1 | 12044.32 | 81971 | 103.1246 ng/ml |
| Meprobamate | 4.906 | 87504 | 16630.58 | 27.7 | 1143.64 | 44787 | 101.0937 ng/ml |
| Zolpidem | 4.924 | 323855 | 73802.97 | 31.6 | 481.83 | 159547 | 103.9119 ng/ml |
| Norbuprenorphine | 4.988 | 966 | 45.69 | 87.1 | ∞ | 3817 | 10.7407 ng/ml |
| Venlafaxine | 5.046 | 217247 | 2639.08 | 37.6 | 9154.12 | 108175 | 101.8553 ng/ml |
| Fentanyl | 5.100 | 1978 | 230.19 | 77.6 | ∞ | 10528 | 9.9278 ng/ml |
| Trazodone | 5.168 | 31977 | ∞ | 75.8 | ∞ | 13103 | 106.4932 ng/ml |
| Mitragynine | 5.228 | 6752 | 14760.56 | 39.5 | 2613.65 | 20145 | 107.0835 ng/ml |
| Citalopram | 5.229 | 30907 | 1235.04 | 41.2 | ∞ | 13842 | 100.5747 ng/ml |
| EDDP | 5.257 | 51423 | 1437.53 | 41.1 | 3407.09 | 26030 | 101.9237 ng/ml |
| Dextromethorphan | 5.271 | 16627 | 5071.49 | 77.8 | 20123.54 | 7961 | 102.2420 ng/ml |
| Diphenhydramine | 5.299 | 90471 | 642.56 | 34.5 | 1422.02 | 47657 | 101.3961 ng/ml |
| Promethazine | 5.541 | 40268 | 27157.69 | 28.1 | 2918.23 | 16605 | 102.6815 ng/ml |
| Quetiapine | 5.557 | 43054 | 4594.72 | 58.8 | 6002.14 | 5500 | 108.2712 ng/ml |
| Clonazepam | 5.600 | 98121 | 27018.32 | 34.4 | 6392.73 | 16209 | 109.3686 ng/ml |
| Cyclobenzaprine | 5.624 | 21035 | 6160.02 | 10.6 | ∞ | 8775 | 100.0601 ng/ml |
| Methadone | 5.655 | 40849 | 812.16 | 52.7 | 6964.78 | 20145 | 101.8705 ng/ml |
| a-hydroxyalprazolam | 5.681 | 66196 | 15110.63 | 64.5 | 2773.69 | 32380 | 107.9442 ng/ml |
| Carisoprodol | 5.713 | 175109 | 14733.53 | 57.2 | 9234.30 | 93032 | 103.4996 ng/ml |
| Fluoxetine | 5.710 | 26583 | 8434.48 | 9.4 | 1324.07 | 10097 | 103.9125 ng/ml |
| Lorazepam | 5.736 | 167659 | 2058.82 | 56.3 | 1067.07 | 16209 | 88.7469 ng/ml |
| Oxazepam | 5.739 | 214244 | 1410.65 | 69.4 | 1175.63 | 87822 | 107.2619 ng/ml |
| Alprazolam | 5.758 | 149620 | 686.43 | 102.5 | 22708.18 | 44765 | 101.0135 ng/ml |
| Sertraline | 5.779 | 14083 | 873.38 | 91.2 | 6330.06 | 5950 | 99.2419 ng/ml |
| Temazepam | 5.807 | 283705 | ∞ | 29.5 | 1877.30 | 128268 | 104.7714 ng/ml |
| Buprenorphine | 5.864 | 3213 | 319.93 | 17.3 | 420.31 | 14072 | 10.2542 ng/ml |
| Nordiazepam | 5.890 | 93747 | 5063.25 | 58.1 | 9044.06 | 29254 | 105.3782 ng/ml |
| Diazepam | 5.944 | 94346 | 5791.99 | 87.2 | 1361.96 | 43805 | 104.7263 ng/ml |

AM #28 Multi-Drug Quant. Results



Batch results

Calibration Last Update

D:\MassHunter\Data\2019\MDQ\031219 am 28 worklist 3037 reinjects\QuantResults\am 28 worklist 3037.batch.bin

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 Cal 6-250ng.d

Type

Cal

Sample

p1 Cal 6-250ng

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-F5

Comment

Worklist 3037

Injection Volume

1

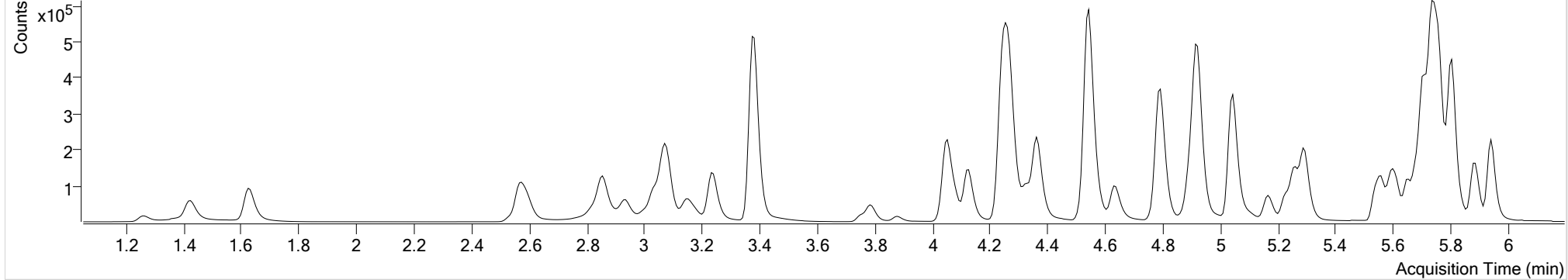
Acq. Date-Time

3/13/2019 12:16:01 PM

Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 6-250ng.d (p1 Cal 6-250ng)



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|-----------|------------|----------------|
| Morphine | 1.266 | 35830 | 20560.95 | 22.9 | 937.40 | 1747 | 250.3439 ng/ml |
| Oxymorphone | 1.423 | 124322 | ∞ | 49.5 | ∞ | 18652 | 252.9146 ng/ml |
| Hydromorphone | 1.628 | 137718 | ∞ | 75.0 | ∞ | 21334 | 249.0854 ng/ml |
| Dihydrocodeine | 2.569 | 155756 | 74481.12 | 68.5 | 492580.03 | 37211 | 239.9503 ng/ml |
| Codeine | 2.597 | 57249 | 26349.85 | 101.1 | 4132.48 | 10898 | 255.4362 ng/ml |
| Oxycodone | 2.853 | 291014 | 1789.64 | 32.1 | 2044.85 | 54742 | 243.1340 ng/ml |
| Noroxycodone | 2.935 | 108328 | ∞ | 49.9 | 284.82 | 17023 | 251.5649 ng/ml |
| Hydrocodone | 3.038 | 150733 | 1996.18 | 41.7 | 691.65 | 39581 | 242.7475 ng/ml |
| Amphetamine | 3.075 | 270917 | 9928.45 | 55.0 | 67226.06 | 17920 | 239.6204 ng/ml |
| Norhydrocodone | 3.087 | 78222 | 2198.45 | 41.1 | 691.60 | 42365 | 336.7974 ng/ml |
| 6-MAM | 3.151 | 44339 | ∞ | 70.7 | 4062.50 | 55329 | 25.1177 ng/ml |
| Methamphetamine | 3.237 | 245214 | 4164.46 | 41.7 | ∞ | 44930 | 256.4874 ng/ml |
| O-desmethyl-tramadol | 3.386 | 1018914 | 118576.88 | 6.6 | 14375.59 | 188411 | 251.0111 ng/ml |
| Phentermine | 3.787 | 102991 | 3385.33 | 3.9 | 891.70 | 44784 | 255.4905 ng/ml |
| Benzoylcegonine | 3.876 | 18176 | 11011.47 | 7.7 | 793.03 | 2411 | 242.9072 ng/ml |
| Ketamine | 4.056 | 327618 | 37915.36 | 37.2 | 7636.50 | 64898 | 252.5396 ng/ml |
| Norfentanyl | 4.091 | 54755 | 162.85 | 38.2 | 3143.93 | 91521 | 24.3378 ng/ml |
| Dextrophan | 4.129 | 90026 | 9985.74 | 205.6 | 3301.92 | 43046 | 251.7802 ng/ml |

cg TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|--------|-----------|-------|-----------|------------|----------------|
| Lamotrigine | 4.297 | 35420 | 27315.10 | 79.6 | 7597.89 | 64898 | 256.4965 ng/ml |
| Tramadol | 4.249 | 794566 | 123171.35 | 3.6 | 1453.65 | 167950 | 254.3360 ng/ml |
| 7-aminoclonazepam | 4.253 | 136097 | 10875.02 | 79.8 | 1099.87 | 25876 | 240.1842 ng/ml |
| Cocaine | 4.266 | 351575 | 267939.91 | 43.0 | 162467.65 | 137291 | 252.9687 ng/ml |
| Metoprolol | 4.329 | 86352 | 10543.89 | 92.9 | ∞ | 167950 | 255.6602 ng/ml |
| alpha-PVP | 4.366 | 306143 | 22055.85 | 51.7 | 27216.46 | 57099 | 253.4301 ng/ml |
| Doxylamine | 4.542 | 728731 | 187335.68 | 97.3 | 852378.98 | 136279 | 255.3407 ng/ml |
| Mirtazapine | 4.630 | 144485 | 5471.65 | 48.0 | 29634.56 | 57099 | 283.6765 ng/ml |
| Bupropion | 4.796 | 550673 | 52830.88 | 59.3 | 68963.80 | 83163 | 254.4207 ng/ml |
| Meprobamate | 4.906 | 168687 | 53275.97 | 28.1 | 6330.07 | 43071 | 203.6619 ng/ml |
| Zolpidem | 4.924 | 789112 | 278453.11 | 31.2 | 3899.86 | 160206 | 252.9149 ng/ml |
| Norbuprenorphine | 4.995 | 2395 | 740.33 | 96.2 | 351.36 | 4217 | 24.7051 ng/ml |
| Venlafaxine | 5.046 | 525427 | 5028.78 | 37.9 | 844.43 | 106837 | 249.8109 ng/ml |
| Fentanyl | 5.100 | 6346 | 166.68 | 76.4 | 6955.38 | 13199 | 25.7140 ng/ml |
| Trazodone | 5.168 | 92354 | ∞ | 79.3 | 94623.60 | 16436 | 247.8409 ng/ml |
| Mitragynine | 5.235 | 19861 | 7127.56 | 37.3 | 31318.83 | 23957 | 264.8622 ng/ml |
| Citalopram | 5.229 | 85047 | 724.12 | 41.7 | 47252.27 | 15122 | 255.0338 ng/ml |
| EDDP | 5.257 | 137981 | 3097.89 | 41.9 | 1562.67 | 28189 | 253.9765 ng/ml |
| Dextromethorphan | 5.271 | 47097 | 4767.54 | 78.9 | 119109.28 | 9220 | 252.3049 ng/ml |
| Diphenhydramine | 5.299 | 249869 | 24957.65 | 34.1 | 7573.70 | 52283 | 256.9201 ng/ml |
| Promethazine | 5.541 | 120854 | 45706.83 | 28.8 | 1502.62 | 20539 | 249.9011 ng/ml |
| Quetiapine | 5.557 | 113402 | 24340.04 | 61.8 | 74709.31 | 6376 | 247.1612 ng/ml |
| Clonazepam | 5.600 | 187402 | 16208.44 | 35.2 | 9018.16 | 13459 | 252.9450 ng/ml |
| Cyclobenzaprine | 5.624 | 66832 | ∞ | 10.2 | ∞ | 10935 | 256.8600 ng/ml |
| Methadone | 5.655 | 120632 | 12587.35 | 51.9 | 4953.91 | 23957 | 254.4914 ng/ml |
| a-hydroxyalprazolam | 5.681 | 134691 | 1386.26 | 65.4 | 1214.90 | 27986 | 255.2076 ng/ml |
| Carisoprodol | 5.713 | 356721 | 5386.62 | 57.3 | 1350.84 | 80230 | 245.2794 ng/ml |
| Fluoxetine | 5.710 | 78581 | 23289.05 | 9.7 | ∞ | 12004 | 262.1192 ng/ml |
| Lorazepam | 5.729 | 252043 | 2182.26 | 57.8 | 526.42 | 13459 | 162.1005 ng/ml |
| Oxazepam | 5.739 | 331365 | 4663.31 | 68.2 | 1263.06 | 60103 | 243.9049 ng/ml |
| Alprazolam | 5.758 | 330133 | 2075.92 | 100.1 | 1082.65 | 39366 | 253.7478 ng/ml |
| Sertraline | 5.779 | 42900 | 503.67 | 89.9 | 38578.29 | 6887 | 263.5561 ng/ml |
| Temazepam | 5.807 | 589339 | 1772.82 | 29.6 | 798.20 | 111556 | 251.2611 ng/ml |
| Buprenorphine | 5.864 | 8566 | 631.21 | 17.6 | 554.23 | 15507 | 25.0235 ng/ml |
| Nordiazepam | 5.890 | 189070 | 8443.66 | 58.6 | ∞ | 24942 | 250.0147 ng/ml |
| Diazepam | 5.944 | 210599 | 2130.94 | 87.2 | 8237.75 | 41062 | 250.1739 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



Batch results

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Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 Cal 7-500ng.d

Type

Cal

Sample

p1 Cal 7-500ng

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-G5

Comment

Worklist 3037

Injection Volume

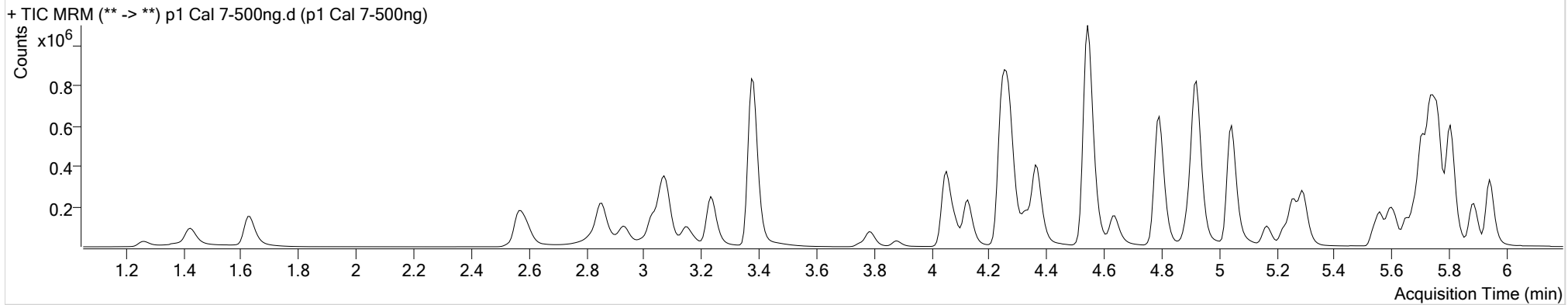
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Acq. Date-Time

3/13/2019 12:26:28 PM

Sample Info.

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|----------|------------|----------------|
| Morphine | 1.266 | 62128 | 2052.78 | 23.1 | 581.51 | 1553 | 489.1227 ng/ml |
| Oxymorphone | 1.423 | 213139 | 3793.29 | 49.6 | 1821.06 | 17022 | 475.4214 ng/ml |
| Hydromorphone | 1.634 | 243285 | ∞ | 75.0 | 536.23 | 18955 | 495.7728 ng/ml |
| Dihydrocodeine | 2.569 | 272694 | ∞ | 67.5 | 59478.79 | 36096 | 433.6972 ng/ml |
| Codeine | 2.597 | 97412 | 846.84 | 100.0 | 2866.10 | 9532 | 498.0312 ng/ml |
| Oxycodone | 2.853 | 530034 | 553.62 | 31.9 | 230.14 | 51820 | 468.7943 ng/ml |
| Noroxycodone | 2.928 | 183710 | ∞ | 51.2 | 667.70 | 15286 | 475.8417 ng/ml |
| Hydrocodone | 3.032 | 274585 | 1371.75 | 42.3 | 2767.37 | 37269 | 470.4567 ng/ml |
| Amphetamine | 3.069 | 448695 | 9721.46 | 56.2 | ∞ | 16876 | 422.3190 ng/ml |
| Norhydrocodone | 3.080 | 159807 | 1801.50 | 42.6 | 834.71 | 41052 | 706.5158 ng/ml |
| 6-MAM | 3.151 | 85249 | 1677.63 | 70.9 | 2181.04 | 53789 | 49.7495 ng/ml |
| Methamphetamine | 3.237 | 432651 | 40435.69 | 43.7 | 3383.19 | 43548 | 468.0482 ng/ml |
| O-desmethyl-tramadol | 3.379 | 1834081 | 184007.20 | 6.6 | 14444.42 | 173701 | 490.3652 ng/ml |
| Phentermine | 3.787 | 177993 | 4756.55 | 3.8 | 1408.48 | 42919 | 461.6161 ng/ml |
| Benzoylcegonine | 3.876 | 36583 | 702.09 | 7.7 | 224.75 | 2445 | 482.8122 ng/ml |
| Ketamine | 4.056 | 598240 | 100612.12 | 37.2 | 6905.52 | 61631 | 486.1660 ng/ml |
| Norfentanyl | 4.091 | 108780 | 180.70 | 37.4 | 10184.56 | 86348 | 51.1942 ng/ml |
| Dextrorphan | 4.129 | 152306 | 65069.20 | 207.1 | 66571.50 | 36717 | 499.8475 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|---------|-----------|-------|-----------|------------|----------------|
| Lamotrigine | 4.297 | 60255 | 13431.11 | 78.9 | 81537.73 | 61631 | 460.0789 ng/ml |
| Tramadol | 4.249 | 1415019 | 192592.09 | 3.6 | 944.81 | 157614 | 483.3668 ng/ml |
| 7-aminoclonazepam | 4.260 | 213991 | 8619.52 | 78.5 | 9515.36 | 22748 | 430.1182 ng/ml |
| Cocaine | 4.273 | 624438 | 356226.05 | 44.0 | 77881.28 | 124234 | 496.9666 ng/ml |
| Metoprolol | 4.329 | 154307 | 89903.26 | 93.7 | 40419.01 | 157614 | 487.0126 ng/ml |
| alpha-PVP | 4.373 | 561184 | 96089.04 | 52.1 | 26143.39 | 53331 | 497.8475 ng/ml |
| Doxylamine | 4.542 | 1400329 | 266491.11 | 98.1 | 209153.18 | 132659 | 505.0284 ng/ml |
| Mirtazapine | 4.637 | 216861 | 14063.72 | 48.2 | 63747.81 | 53331 | 456.3476 ng/ml |
| Bupropion | 4.796 | 994025 | ∞ | 58.8 | 1622.83 | 75521 | 506.6539 ng/ml |
| Meprobamate | 4.906 | 256190 | 38753.09 | 27.8 | 1963.60 | 37646 | 354.6331 ng/ml |
| Zolpidem | 4.924 | 1409853 | 321359.32 | 31.1 | 51687.92 | 150086 | 482.8200 ng/ml |
| Norbuprenorphine | 4.995 | 3233 | 1729.46 | 93.3 | 316.89 | 2813 | 50.4881 ng/ml |
| Venlafaxine | 5.046 | 964572 | 11085.04 | 38.2 | 24777.13 | 98515 | 497.6017 ng/ml |
| Fentanyl | 5.100 | 7019 | 215.30 | 78.0 | 8407.70 | 7661 | 49.1813 ng/ml |
| Trazodone | 5.168 | 129211 | ∞ | 79.2 | ∞ | 11656 | 490.9352 ng/ml |
| Mitragynine | 5.228 | 22922 | 35674.81 | 40.0 | 19451.09 | 15235 | 480.7028 ng/ml |
| Citalopram | 5.229 | 116683 | 7956.48 | 41.4 | 1632.27 | 10568 | 501.7659 ng/ml |
| EDDP | 5.257 | 261809 | 871.96 | 42.1 | 667.85 | 26919 | 505.5895 ng/ml |
| Dextromethorphan | 5.271 | 59590 | 6629.66 | 79.8 | ∞ | 5946 | 496.4522 ng/ml |
| Diphenhydramine | 5.299 | 358342 | 50813.22 | 34.5 | ∞ | 38741 | 498.2613 ng/ml |
| Promethazine | 5.541 | 132067 | 25154.89 | 29.5 | 2750.88 | 11730 | 478.6559 ng/ml |
| Quetiapine | 5.557 | 174428 | 138215.04 | 60.0 | 52224.94 | 4836 | 502.2102 ng/ml |
| Clonazepam | 5.600 | 273154 | 17500.44 | 35.2 | ∞ | 11106 | 447.6176 ng/ml |
| Cyclobenzaprine | 5.624 | 70317 | 26037.32 | 10.4 | 778.37 | 6042 | 490.1494 ng/ml |
| Methadone | 5.655 | 155949 | 563.55 | 51.4 | 5761.93 | 15235 | 518.4259 ng/ml |
| a-hydroxyalprazolam | 5.681 | 203780 | 2875.25 | 65.9 | 5654.70 | 23238 | 465.6556 ng/ml |
| Carisoprodol | 5.713 | 563295 | 26687.01 | 56.7 | 5906.20 | 63834 | 487.3811 ng/ml |
| Fluoxetine | 5.710 | 76189 | 8451.52 | 9.7 | 5537.55 | 6070 | 504.9020 ng/ml |
| Lorazepam | 5.736 | 307094 | 979.12 | 57.2 | 266.60 | 11106 | 240.1906 ng/ml |
| Oxazepam | 5.739 | 381492 | ∞ | 69.3 | 615.01 | 36240 | 466.7709 ng/ml |
| Alprazolam | 5.758 | 520050 | 2264.51 | 99.5 | ∞ | 31280 | 503.2387 ng/ml |
| Sertraline | 5.779 | 39751 | 5623.12 | 93.7 | 7298.79 | 3319 | 508.1653 ng/ml |
| Temazepam | 5.807 | 872048 | 22536.69 | 29.8 | 8479.71 | 86951 | 477.6572 ng/ml |
| Buprenorphine | 5.864 | 10707 | 1030.87 | 16.6 | 896.90 | 9830 | 49.4878 ng/ml |
| Nordiazepam | 5.890 | 272057 | 15858.10 | 58.0 | 3278.81 | 19333 | 464.6086 ng/ml |
| Diazepam | 5.944 | 335799 | 2104.81 | 86.9 | 33101.80 | 34359 | 477.2418 ng/ml |

AM #28 Multi-Drug Quant. Results



Batch results

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Calibration Last Update

3/14/2019 2:28:44 PM

Instrument

FALCO-LCMS (Property ID 069901)

Data File

p1 Cal 8-1000ng.d

Type

Cal

Sample

p1 Cal 8-1000ng

Acq. Method

MDQ P1 Combined 011619.m

Operator

Celena Shrum and Tamara Salazar

Sample Position

P1-H5

Comment

Worklist 3037

Injection Volume

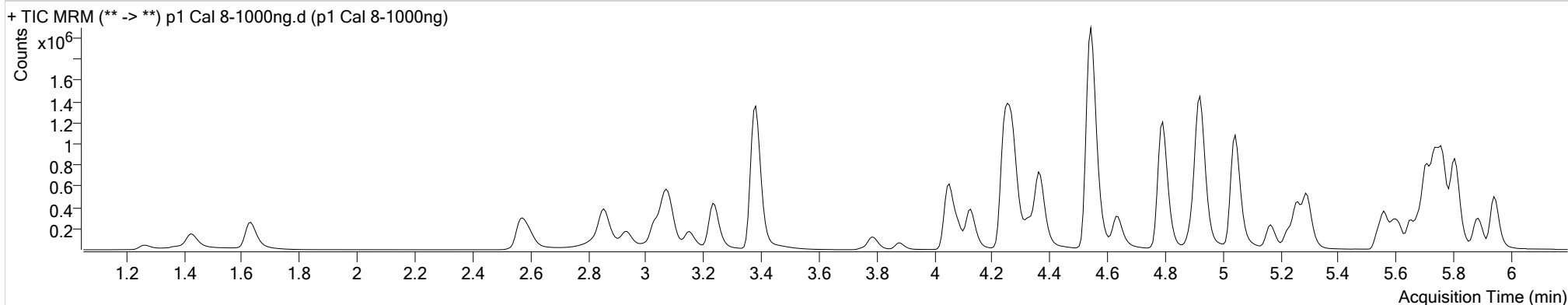
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Acq. Date-Time

3/13/2019 12:36:56 PM

Sample Info.

Sample Chromatogram



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|----------------------|-------|---------|-----------|-------|-----------|------------|-----------------|
| Morphine | 1.266 | 104884 | 1629.93 | 24.2 | 290.80 | 1408 | 910.9016 ng/ml |
| Oxymorphone | 1.423 | 394503 | 3635.66 | 47.8 | ∞ | 15615 | 959.6235 ng/ml |
| Hydromorphone | 1.634 | 438133 | 766.73 | 74.7 | ∞ | 18413 | 919.5971 ng/ml |
| Dihydrocodeine | 2.569 | 471407 | 108862.88 | 68.7 | 74136.74 | 36888 | 734.1467 ng/ml |
| Codeine | 2.604 | 166245 | 11559.74 | 98.9 | 241911.33 | 8202 | 988.7951 ng/ml |
| Oxycodone | 2.853 | 996275 | 3974.44 | 31.7 | 3585.89 | 50139 | 911.7245 ng/ml |
| Noroxycodone | 2.935 | 325400 | ∞ | 49.7 | ∞ | 13849 | 931.1189 ng/ml |
| Hydrocodone | 3.032 | 518345 | ∞ | 39.6 | 4544.09 | 36024 | 919.6247 ng/ml |
| Amphetamine | 3.075 | 745612 | 13459.37 | 56.3 | 25298.81 | 16014 | 740.4911 ng/ml |
| Norhydrocodone | 3.087 | 298195 | 3979.40 | 42.0 | 854.10 | 39278 | 1374.8112 ng/ml |
| 6-MAM | 3.151 | 164358 | ∞ | 71.3 | 7354.89 | 51802 | 99.6715 ng/ml |
| Methamphetamine | 3.237 | 825045 | 20966.05 | 41.4 | 11714.36 | 42147 | 923.5607 ng/ml |
| O-desmethyl-tramadol | 3.386 | 3220171 | 132888.19 | 6.7 | 59198.18 | 155136 | 964.2587 ng/ml |
| Phentermine | 3.787 | 306260 | 6259.63 | 3.8 | 396.65 | 42294 | 806.8240 ng/ml |
| Benzoylcegonine | 3.876 | 84589 | 1982.49 | 7.7 | 33323.24 | 2660 | 1027.1571 ng/ml |
| Ketamine | 4.056 | 1084461 | 114779.03 | 37.3 | 19356.28 | 60323 | 900.9598 ng/ml |
| Norfentanyl | 4.091 | 228997 | 4366.46 | 38.1 | 1056.49 | 81786 | 113.7228 ng/ml |
| Dextroprphan | 4.129 | 263748 | 26722.93 | 205.9 | 51969.59 | 31917 | 996.2332 ng/ml |

CS TS

AM #28 Multi-Drug Quant. Results



| Name | RT | Resp. | S/N | Ratio | S/N | ISTD Resp. | Final Conc. |
|---------------------|-------|---------|------------|-------|-----------|------------|-----------------|
| Lamotrigine | 4.297 | 105266 | 8194.13 | 79.6 | 36155.81 | 60323 | 821.8186 ng/ml |
| Tramadol | 4.249 | 2471138 | 212117.67 | 3.6 | 1500.79 | 152139 | 875.1702 ng/ml |
| 7-aminoclonazepam | 4.260 | 289695 | 12408.88 | 75.9 | ∞ | 18599 | 712.5916 ng/ml |
| Cocaine | 4.273 | 1128750 | 269397.59 | 43.2 | 339121.70 | 111772 | 998.9515 ng/ml |
| Metoprolol | 4.329 | 262754 | 1297387.88 | 94.2 | ∞ | 152139 | 859.3017 ng/ml |
| alpha-PVP | 4.366 | 1071694 | 52441.58 | 51.7 | 89457.44 | 50993 | 994.8221 ng/ml |
| Doxylamine | 4.542 | 2767492 | 456636.05 | 96.5 | 425423.49 | 134747 | 983.5816 ng/ml |
| Mirtazapine | 4.637 | 448582 | 102965.72 | 48.0 | 44839.75 | 50993 | 988.1882 ng/ml |
| Bupropion | 4.796 | 1890355 | 188051.94 | 58.8 | 102336.71 | 73930 | 985.1351 ng/ml |
| Meprobamate | 4.899 | 387519 | 92054.58 | 27.3 | 31627.48 | 37041 | 545.7317 ng/ml |
| Zolpidem | 4.924 | 2687421 | 309258.36 | 31.2 | 159011.50 | 151263 | 913.6480 ng/ml |
| Norbuprenorphine | 4.995 | 5958 | 80.21 | 90.7 | 2897.29 | 2648 | 99.2716 ng/ml |
| Venlafaxine | 5.046 | 1856337 | 82182.20 | 37.3 | 12640.32 | 94352 | 1000.1667 ng/ml |
| Fentanyl | 5.100 | 14196 | 9598.61 | 78.2 | 20055.16 | 7568 | 100.8929 ng/ml |
| Trazodone | 5.168 | 302758 | ∞ | 79.4 | ∞ | 13378 | 1004.3113 ng/ml |
| Mitragynine | 5.235 | 43724 | 70566.37 | 38.6 | 53606.79 | 16567 | 843.2366 ng/ml |
| Citalopram | 5.229 | 237588 | 1723.69 | 41.8 | 2466.65 | 10889 | 992.6634 ng/ml |
| EDDP | 5.264 | 499424 | 955.34 | 42.3 | 52426.29 | 26285 | 988.6159 ng/ml |
| Dextromethorphan | 5.271 | 116872 | 99407.20 | 79.6 | 47275.48 | 5798 | 1000.1767 ng/ml |
| Diphenhydramine | 5.299 | 715144 | 26049.87 | 34.2 | 60724.11 | 38771 | 994.7010 ng/ml |
| Promethazine | 5.541 | 261677 | 6877.09 | 28.4 | 3474.23 | 11194 | 994.4183 ng/ml |
| Quetiapine | 5.557 | 388756 | 2309.36 | 60.7 | 29517.79 | 5625 | 963.1140 ng/ml |
| Clonazepam | 5.600 | 403612 | 73833.93 | 35.0 | 14133.74 | 8958 | 820.8639 ng/ml |
| Cyclobenzaprine | 5.624 | 139450 | 12400.24 | 10.5 | 1636.69 | 6054 | 971.2463 ng/ml |
| Methadone | 5.655 | 319056 | 32212.86 | 52.2 | 19776.17 | 16567 | 976.2888 ng/ml |
| a-hydroxyalprazolam | 5.681 | 302635 | ∞ | 64.4 | 445.52 | 18812 | 854.9416 ng/ml |
| Carisoprodol | 5.713 | 845542 | 72445.25 | 56.2 | 12603.50 | 50402 | 927.0894 ng/ml |
| Fluoxetine | 5.710 | 127908 | ∞ | 10.1 | ∞ | 5265 | 979.6560 ng/ml |
| Lorazepam | 5.736 | 388529 | 2649.11 | 57.9 | 531.91 | 8958 | 377.7454 ng/ml |
| Oxazepam | 5.739 | 412046 | 6815.82 | 69.2 | ∞ | 21427 | 853.6782 ng/ml |
| Alprazolam | 5.765 | 819953 | ∞ | 102.2 | ∞ | 25008 | 992.6486 ng/ml |
| Sertraline | 5.779 | 66183 | 1459.58 | 92.6 | 946.11 | 2873 | 978.5518 ng/ml |
| Temazepam | 5.807 | 1349835 | 734.70 | 29.0 | 1286.42 | 70894 | 907.4739 ng/ml |
| Buprenorphine | 5.864 | 19855 | 1191.72 | 17.3 | 2839.57 | 9177 | 98.4520 ng/ml |
| Nordiazepam | 5.890 | 405568 | 13151.68 | 56.4 | 26649.66 | 14821 | 903.9543 ng/ml |
| Diazepam | 5.944 | 545390 | 15811.40 | 85.9 | 8393.81 | 28909 | 921.7711 ng/ml |