

*Bylee*

**Worklist: 1820**

| <u>LAB CASE</u> | <u>ITEM</u> | <u>TASK ID</u> | <u>DESCRIPTION</u>           |   |
|-----------------|-------------|----------------|------------------------------|---|
| C2017-1393      | 1           | 90792          | AM 28 Blood Multi-Drug Quant |    |
| C2017-1395      | 1           | 90793          | AM 28 Blood Multi-Drug Quant |    |
| C2017-1412      | 1           | 90794          | AM 28 Blood Multi-Drug Quant |    |
| C2017-1420      | 4           | 90795          | AM 28 Blood Multi-Drug Quant |    |
| C2017-1422      | 1           | 90808          | AM 28 Blood Multi-Drug Quant |    |
| C2017-1438      | 1           | 90796          | AM 28 Blood Multi-Drug Quant |    |
| C2017-1448      | 1           | 90797          | AM 28 Blood Multi-Drug Quant |    |
| M2017-2859      | 1           | 90798          | AM 28 Blood Multi-Drug Quant |    |
| M2017-2860      | 3           | 90799          | AM 28 Blood Multi-Drug Quant |    |
| M2017-2873      | 3           | 90800          | AM 28 Blood Multi-Drug Quant |    |
| M2017-2988      | 2           | 90801          | AM 28 Blood Multi-Drug Quant |    |
| M2017-3021      | 1           | 90802          | AM 28 Blood Multi-Drug Quant |  |
| M2017-3082      | 1           | 90803          | AM 28 Blood Multi-Drug Quant |  |
| M2017-3152      | 1           | 90804          | AM 28 Blood Multi-Drug Quant |  |
| M2017-3193      | 1           | 90805          | AM 28 Blood Multi-Drug Quant |  |
| M2017-3315      | 2           | 90806          | AM 28 Blood Multi-Drug Quant |  |
| P2017-1556      | 1           | 90807          | AM 28 Blood Multi-Drug Quant |  |

*C2017-1239-1* ★



**Multi-Drug Quantitation in Blood by LC-MS/MS**Date: 7-24-17Analyst: Anne Nord**PRE-ANALYTIC**Plate Lot# 0498367Plate Exp. 1/26/2018

1. Ensure all solutions are within expiration date.
- Mobile Phase A: **0.5M Ammonium Hydroxide**  
**5mM Amm Form +0.01% FA**
- Mobile Phase B: Ethyl Acetate  
**0.01% FA in MeOH**  
**20% Methanol**
- Column: **Agilent 120 EC-C18 (2.1x 100-4um)**
2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.
3. Begin mobile phase flow and allow system to equilibrate for approx. 30 minutes.
4. Create worklist. Data path name: 72417 mda

**ANALYTIC**

1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
2. Pipette **250 µL blood** in wells of analytical (standards) plate. Mix via aspirate and dispense.
- Blank blood for locations containing standards/QCs and internal standards
  - Sample blood for locations containing only internal standards
3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID 66759
4. Pipette **250 µL 0.5M ammonium hydroxide** buffer in wells of analytical (standards) plate.
5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
6. Transfer **300 µL of blood+base** mixture to corresponding wells of SLE+ plate.
7. Apply positive pressure for approx. 4 seconds (or until no liquid remains on top of sorbent).  
**(Load at 85-100PSI- Selector to Right)** Wait 5 min.
8. Add **900 µL ethyl acetate** and allow to flow for 5 minutes under gravity.
9. Apply positive pressure for approx. 15 seconds. **(~10-15 PSI - Selector to the left)**
10. Add **900 µL ethyl acetate** and allow to flow for 5 minutes under gravity.
11. Apply positive pressure for approx. 15 seconds. **(~10-15 PSI - Selector to the left)**
12. Remove plate containing eluate. Place on **SPE Dry** and evaporate to dryness at approx. 35°C.  
SPE Dry ID 66819
13. Reconstitute in **100 µL 20% MeOH** and seal plate with foil. Place in autosampler and run worklist.

**POST-ANALYTIC**

1. Open quantitation software and create a new quantitation batch.  
Batch name: 72417 mda pla, 72417 mda plb
2. Make any necessary changes. Limit curves based on validated linear ranges.
3. Were all appropriate standards used in the curve for each analyte? Y/N  
Are r<sup>2</sup> values ≥0.98 for each analyte? Y/N
4. For unknown samples, are the response ratios for each analyte within ± 20% of the average ratios of the standards and QC's? (Y)/N
5. Did all QCs pass for each analyte? Y/N
6. Central File Packet to include:  LIMS Worklist:  Method Checklist  Calibration and Control Reports

**COMMENTS:**Oxycodone, & hydroxyzolprazolam - not evaluatedlorazepam 5-250 ngNor hydrocodone 5-500 ngG-Mam .5-50 ngNorfentanyl 2.5-100 ng

# ISP FORENSICS - Cd'A Instrument # 62340

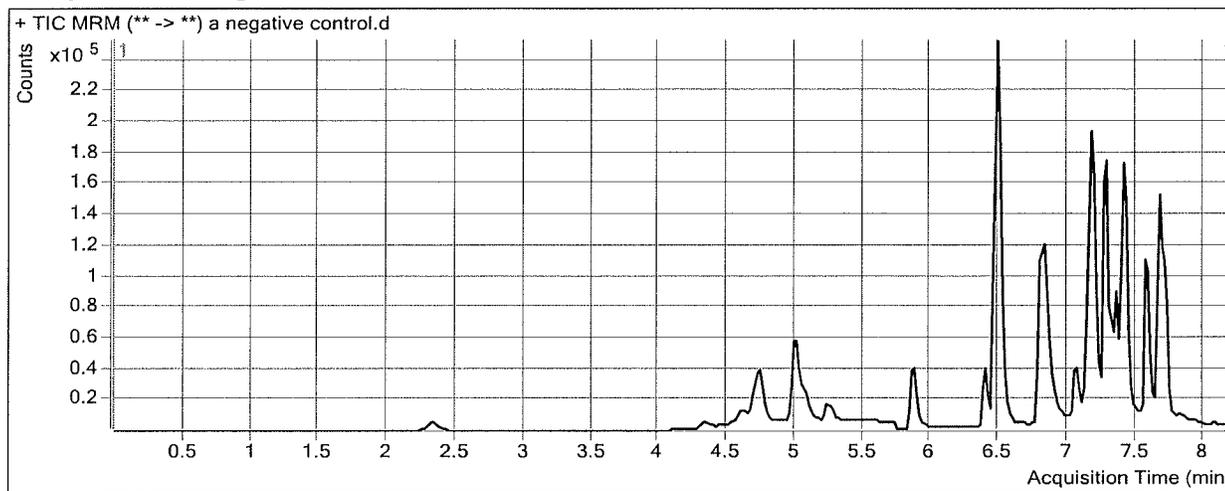
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin  
**Analysis Time** 7/25/2017 12:02 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:05 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 12:02 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 21:06 **Data File** a negative control.d  
**Sample Type** Sample **Sample Name** a negative control  
**Dilution** 1 **Acq Method** Quant Panel 1a 2-13-17.m  
**Position** P1-F2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound | ISTD Compound   | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------|-----------------|-------|----------|-----------|------------|------------|
| Tramadol | Tramadol-13C-D3 | 6.501 | 8670     | 721883    | 0.0120     | 0.0000     |

# ISP FORENSICS - Cd'A Instrument # 62340

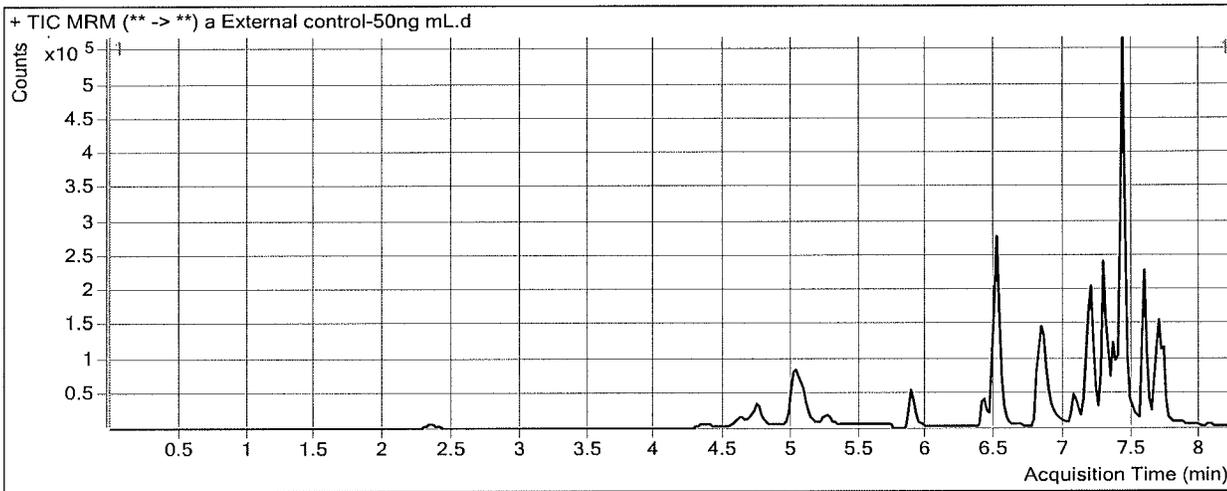
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin  
**Analysis Time** 7/25/2017 12:02 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:05 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 12:02 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 21:32 **Data File** a External control-50ng mL.d  
**Sample Type** Sample **Sample Name** a External control-50ng mL  
**Dilution** 1 **Acq Method** Quant Panel 1a 2-13-17.m  
**Position** P1-G2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28; lot 81017 50 ng hydrocodone, diphenhydramine, lorazepam

### Sample Chromatogram



### Results

| Compound        | ISTD Compound      | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-----------------|--------------------|-------|----------|-----------|------------|------------|
| Hydrocodone     | Hydrocodone-D6     | 5.055 | 93609    | 104170    | 0.8986     | 53.7826    |
| Diphenhydramine | Diphenhydramine-D3 | 7.432 | 564738   | 469624    | 1.2025     | 56.9265    |
| Lorazepam       | Alprazolam-D5      | 7.703 | 23510    | 206560    | 0.1138     | 53.3044    |

# ISP FORENSICS - Cd'A Instrument # 62340

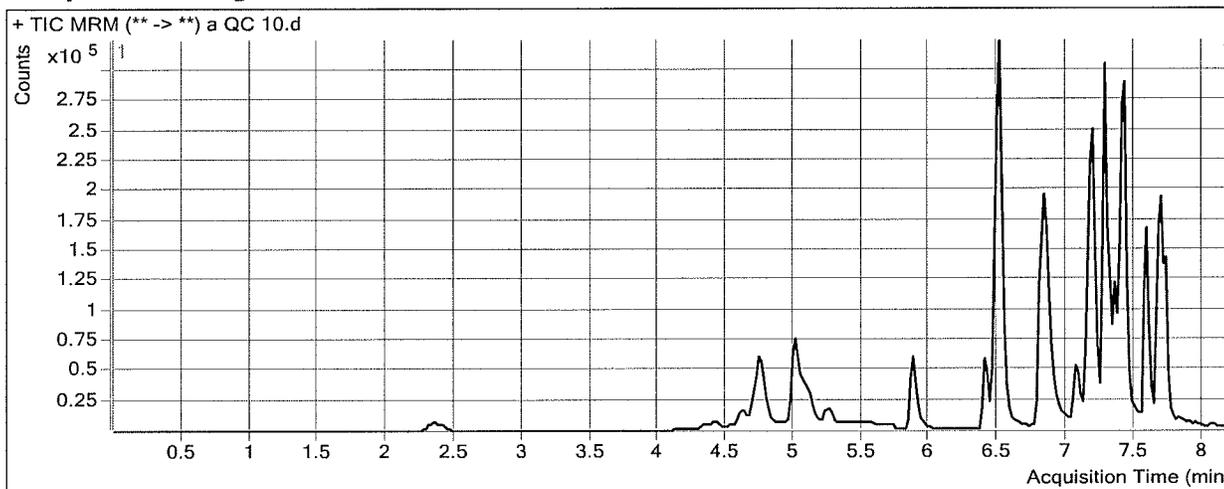
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-24 21:57 | <b>Data File</b>   | a QC 10.d                |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | a QC 10                  |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-A2            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.488 | 2184     | 1849      | 1.1813     | 11.4965    |
| Hydromorphone     | Hydromorphone-D6     | 2.367 | 10865    | 38075     | 0.2853     | 9.5130     |
| Codeine           | Codeine-D6           | 4.415 | 4604     | 19384     | 0.2375     | 10.0133    |
| Amphetamine       | Amphetamine-D11      | 4.764 | 93476    | 59017     | 1.5839     | 12.3953    |
| Oxycodone         | Oxycodone-D6         | 4.770 | 28163    | 130663    | 0.2155     | 9.7559     |
| Methamphetamine   | Methamphetamine-D11  | 5.121 | 51638    | 183521    | 0.2814     | 7.0205     |
| Hydrocodone       | Hydrocodone-D6       | 5.055 | 17449    | 105942    | 0.1647     | 8.9088     |
| Norhydrocodone    | Norhydrocodone-D3    | 5.118 | 1435     | 42216     | 0.0340     | 9.9697     |
| 6-MAM             | 6-MAM-D6             | 5.268 | 895      | 36235     | 0.0247     | 0.9606     |
| Phentermine       | Phentermine-D5       | 5.926 | 13236    | 204040    | 0.0649     | 10.0697    |
| Dextroprphan      | Dextroprphan-D3      | 6.403 | 16920    | 138429    | 0.1222     | 9.4692     |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.495 | 22928    | 101240    | 0.2265     | 9.8155     |
| Tramadol          | Tramadol-13C-D3      | 6.501 | 182483   | 817489    | 0.2232     | 10.2273    |
| Doxylamine        | Doxylamine-D5        | 6.843 | 125883   | 670122    | 0.1879     | 8.7652     |
| Bupropion         | Bupropion-D9         | 7.091 | 28306    | 127354    | 0.2223     | 8.8746     |
| Zolpidem          | Zolpidem-D6          | 7.183 | 110163   | 648477    | 0.1699     | 9.0388     |
| Meprobamate       | Meprobamate-D7       | 7.173 | 10584    | 66144     | 0.1600     | 8.0079     |
| Trazodone         | Trazodone-D6         | 7.376 | 60536    | 267559    | 0.2263     | 10.4460    |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 140498   | 620185    | 0.2265     | 10.4092    |
| Citalopram        | Citalopram-D6        | 7.398 | 58910    | 263165    | 0.2239     | 9.9790     |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 84510    | 402093    | 0.2102     | 9.9737     |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 10168    | 46400     | 0.2191     | 9.2524     |
| Clonazepam        | Clonazepam-D4        | 7.603 | 9329     | 12284     | 0.7594     | 10.7967    |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

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| Compound                       | ISTD Compound                     | RT               | Response        | ISTD Resp        | Resp Ratio        | Final Conc                              |
|--------------------------------|-----------------------------------|------------------|-----------------|------------------|-------------------|---|
| Promethazine                   | Promethazine-D3                   | 7.587            | 63987           | 336194           | 0.1903            | 9.8900                                  |
| <del>a-hydroxyalprazolam</del> | <del>a-hydroxyalprazolam-D5</del> | <del>7.661</del> | <del>4526</del> | <del>20141</del> | <del>0.2247</del> | <del>12.9324</del> <i>Not evaluated</i> |
| Carisoprodol                   | Carisoprodol-D7                   | 7.693            | 57779           | 351744           | 0.1643            | 9.9212                                  |
| Lorazepam                      | Alprazolam-D5                     | 7.703            | 4049            | 203723           | 0.0199            | 10.5587                                 |
| Alprazolam                     | Alprazolam-D5                     | 7.727            | 44141           | 203723           | 0.2167            | 9.4499                                  |

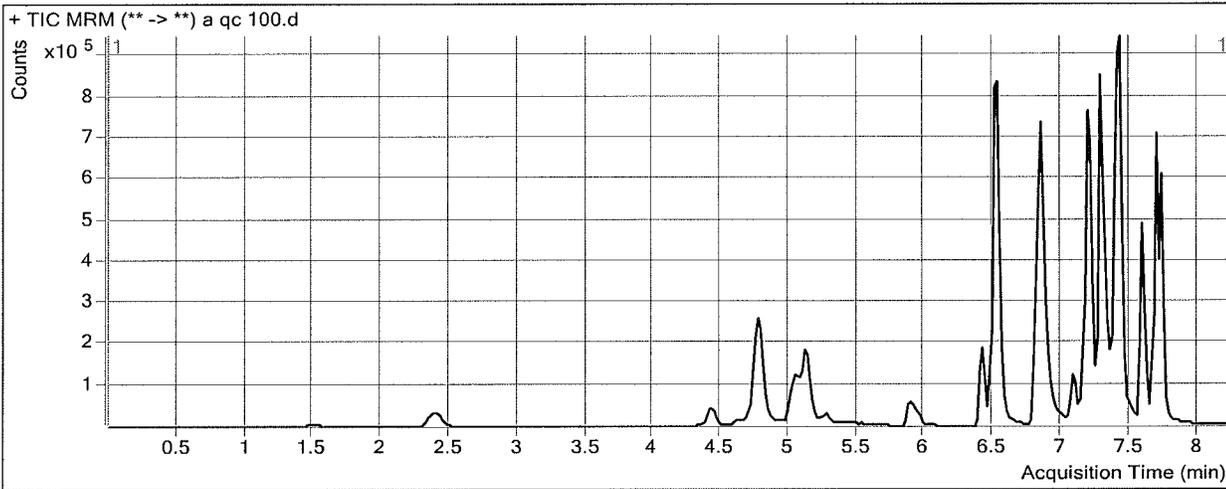
**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

**Analysis Info**

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-25 00:54 | <b>Data File</b>   | a qc 100.d               |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | a qc 100                 |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-B2            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

**Sample Chromatogram**



**Results**

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.528 | 24722    | 2118      | 11.6751    | 96.9891    |
| Hydromorphone     | Hydromorphone-D6     | 2.407 | 121975   | 38731     | 3.1493     | 102.1751   |
| Codeine           | Codeine-D6           | 4.432 | 58995    | 22878     | 2.5787     | 90.0835    |
| Amphetamine       | Amphetamine-D11      | 4.784 | 540281   | 52305     | 10.3294    | 118.2987   |
| Oxycodone         | Oxycodone-D6         | 4.790 | 328984   | 136644    | 2.4076     | 103.5569   |
| Methamphetamine   | Methamphetamine-D11  | 5.141 | 492784   | 181230    | 2.7191     | 93.7729    |
| Hydrocodone       | Hydrocodone-D6       | 5.075 | 199932   | 106119    | 1.8840     | 114.0339   |
| Norhydrocodone    | Norhydrocodone-D3    | 5.118 | 13565    | 40305     | 0.3366     | 103.4707   |
| 6-MAM             | 6-MAM-D6             | 5.268 | 8245     | 35928     | 0.2295     | 9.7312     |
| Phentermine       | Phentermine-D5       | 5.946 | 118446   | 194713    | 0.6083     | 104.6019   |
| Dextrophan        | Dextrophan-D3        | 6.423 | 181221   | 132736    | 1.3653     | 105.9259   |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.515 | 233710   | 100490    | 2.3257     | 108.3148   |
| Tramadol          | Tramadol-13C-D3      | 6.521 | 1752151  | 817947    | 2.1421     | 106.1597   |
| Doxylamine        | Doxylamine-D5        | 6.843 | 1414430  | 708001    | 1.9978     | 104.4908   |
| Bupropion         | Bupropion-D9         | 7.091 | 195664   | 95881     | 2.0407     | 97.8341    |
| Zolpidem          | Zolpidem-D6          | 7.203 | 1336267  | 691120    | 1.9335     | 109.2220   |
| Meprobamate       | Meprobamate-D7       | 7.193 | 121337   | 62636     | 1.9372     | 113.2578   |
| Trazodone         | Trazodone-D6         | 7.376 | 633887   | 292667    | 2.1659     | 105.9089   |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 1379575  | 590196    | 2.3375     | 109.1971   |
| Citalopram        | Citalopram-D6        | 7.398 | 559736   | 234036    | 2.3917     | 113.9215   |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 751260   | 388382    | 1.9343     | 91.5512    |
| Dextromethorphan  | Dextromethorphan-D3  | 7.428 | 104261   | 48454     | 2.1518     | 98.1539    |
| Clonazepam        | Clonazepam-D4        | 7.623 | 101239   | 12472     | 8.1174     | 109.2598   |

ISP FORENSICS - Cd'A Instrument # 62340 A QC 100  
Multi-Drug Confirmatory Analysis Report

| Compound                       | ISTD Compound                     | RT               | Response         | ISTD Resp        | Resp Ratio        | Final Conc                       |
|--------------------------------|-----------------------------------|------------------|------------------|------------------|-------------------|----------------------------------|
| Promethazine                   | Promethazine-D3                   | 7.587            | 664392           | 314505           | 2.1125            | 115.0476                         |
| <del>p-hydroxyalprazolam</del> | <del>a-hydroxyalprazolam-D5</del> | <del>7.661</del> | <del>49679</del> | <del>18991</del> | <del>2.6160</del> | <del>68.3011</del> Not evaluated |
| Carisoprodol                   | Carisoprodol-D7                   | 7.693            | 546119           | 283635           | 1.9254            | 117.9047                         |
| Lorazepam                      | Alprazolam-D5                     | 7.703            | 41455            | 191226           | 0.2168            | 100.1600                         |
| Alprazolam                     | Alprazolam-D5                     | 7.727            | 493543           | 191226           | 2.5809            | 104.4646                         |

# ISP FORENSICS - Cd'A Instrument # 62340

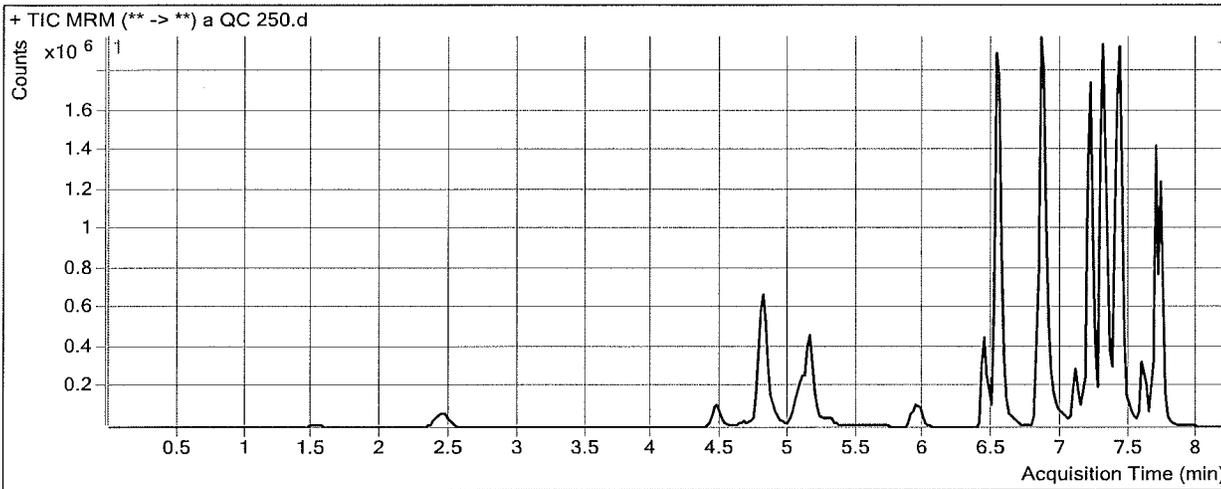
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-25 04:17 | <b>Data File</b>   | a QC 250.d               |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | a QC 250                 |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-C2            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.548 | 55009    | 1806      | 30.4613    | 250.0396   |
| Hydromorphone     | Hydromorphone-D6     | 2.447 | 281952   | 34097     | 8.2692     | 267.8273   |
| Codeine           | Codeine-D6           | 4.473 | 156814   | 22037     | 7.1159     | 245.2620   |
| Amphetamine       | Amphetamine-D11      | 4.804 | 1412386  | 62655     | 22.5421    | 266.1894   |
| Oxycodone         | Oxycodone-D6         | 4.830 | 843971   | 134573    | 6.2715     | 268.8969   |
| Methamphetamine   | Methamphetamine-D11  | 5.162 | 1264656  | 188842    | 6.6969     | 235.3320   |
| Hydrocodone       | Hydrocodone-D6       | 5.095 | 523702   | 113554    | 4.6119     | 280.8239   |
| Norhydrocodone    | Norhydrocodone-D3    | 5.159 | 36641    | 37962     | 0.9652     | 297.7329   |
| 6-MAM             | 6-MAM-D6             | 5.309 | 20759    | 36767     | 0.5646     | 24.0847    |
| Phentermine       | Phentermine-D5       | 5.966 | 326147   | 217757    | 1.4978     | 259.3213   |
| Dextrophan        | Dextrophan-D3        | 6.441 | 490438   | 144913    | 3.3844     | 262.6006   |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.535 | 529323   | 91972     | 5.7553     | 269.2345   |
| Tramadol          | Tramadol-13C-D3      | 6.521 | 4507410  | 876273    | 5.1438     | 256.2247   |
| Doxylamine        | Doxylamine-D5        | 6.843 | 4230808  | 818744    | 5.1674     | 272.1311   |
| Bupropion         | Bupropion-D9         | 7.112 | 527569   | 100720    | 5.2380     | 254.2498   |
| Zolpidem          | Zolpidem-D6          | 7.203 | 3335514  | 711994    | 4.6848     | 265.5112   |
| Meprobamate       | Meprobamate-D7       | 7.193 | 298713   | 59389     | 5.0298     | 296.4110   |
| Trazodone         | Trazodone-D6         | 7.376 | 1745398  | 305193    | 5.7190     | 280.7802   |
| Venlafaxine       | Venlafaxine-D6       | 7.306 | 3845158  | 721227    | 5.3314     | 249.3067   |
| Citalopram        | Citalopram-D6        | 7.398 | 1176447  | 212841    | 5.5274     | 264.2724   |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 1871474  | 346060    | 5.4080     | 255.9033   |
| Dextromethorphan  | Dextromethorphan-D3  | 7.428 | 163943   | 29487     | 5.5598     | 254.9255   |
| Clonazepam        | Clonazepam-D4        | 7.623 | 243437   | 11843     | 20.5547    | 275.6926   |

ISP FORENSICS - Cd'A Instrument # 62340  
Multi-Drug Confirmatory Analysis Report

A QC 250

| Compound                       | ISTD Compound                     | RT               | Response          | ISTD Resp        | Resp Ratio        | Final Conc                        |
|--------------------------------|-----------------------------------|------------------|-------------------|------------------|-------------------|-----------------------------------|
| Promethazine                   | Promethazine-D3                   | 7.587            | 493774            | 100861           | 4.8956            | 267.3027                          |
| <del>a-hydroxyalprazolam</del> | <del>a-hydroxyalprazolam-D5</del> | <del>7.681</del> | <del>128285</del> | <del>21326</del> | <del>6.0156</del> | <del>147.0167</del> Not evaluated |
| Carisoprodol                   | Carisoprodol-D7                   | 7.693            | 1228489           | 262327           | 4.6830            | 286.9836                          |
| Lorazepam                      | Alprazolam-D5                     | 7.723            | 100150            | 178469           | 0.5612            | 256.8653                          |
| Alprazolam                     | Alprazolam-D5                     | 7.727            | 1143973           | 178469           | 6.4099            | 258.3428                          |

# ISP FORENSICS - Cd'A Instrument # 62340

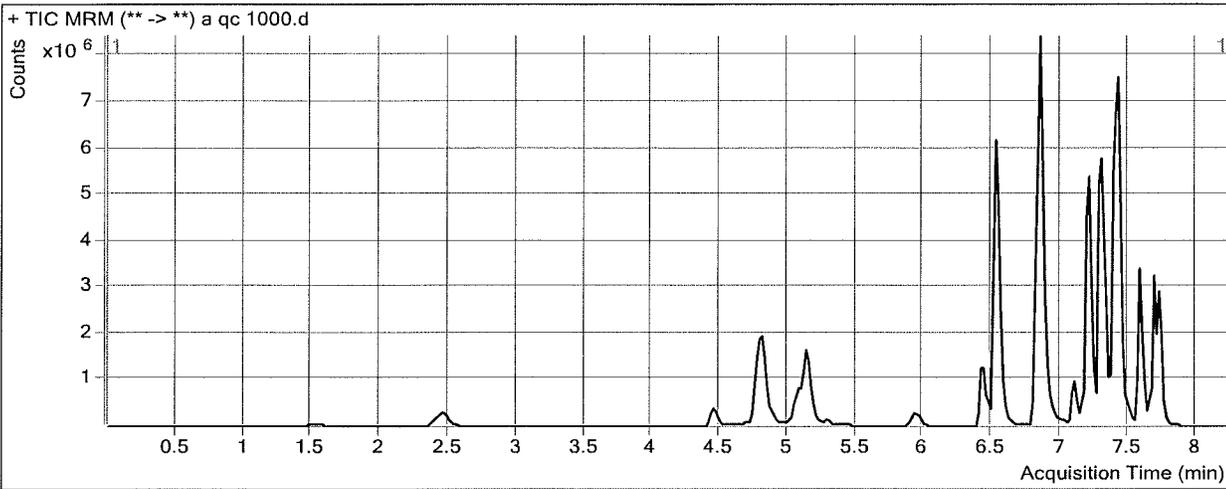
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-25 04:42 | <b>Data File</b>   | a qc 1000.d              |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | a qc 1000                |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-D2            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT               | Response         | ISTD Resp        | Resp Ratio        | Final Conc          |
|-------------------|----------------------|------------------|------------------|------------------|-------------------|---------------------|
| Morphine          | Morphine-D6          | 1.528            | 247734           | 2131             | 116.2311          | 948.8013            |
| Hydromorphone     | Hydromorphone-D6     | 2.467            | 1250108          | 38328            | 32.6159           | 1055.5478           |
| Codeine           | Codeine-D6           | 4.453            | 562997           | 17760            | 31.6997           | 1086.0615           |
| Amphetamine       | Amphetamine-D11      | 4.784            | 4463494          | 60229            | 74.1082           | 890.6288            |
| Oxycodone         | Oxycodone-D6         | 4.810            | 3490106          | 146187           | 23.8742           | 1022.1414           |
| Methamphetamine   | Methamphetamine-D11  | 5.141            | 4995391          | 179455           | 27.8365           | 987.6324            |
| Hydrocodone       | Hydrocodone-D6       | 5.075            | 1757595          | 111034           | 15.8293           | 966.6806            |
| Norhydrocodone    | Norhydrocodone-D3    | 5.138            | 129603           | 31199            | 4.1540            | 1283.1421           |
| <del>6-MAM</del>  | <del>6-MAM-D6</del>  | <del>5.289</del> | <del>86232</del> | <del>33506</del> | <del>2.5736</del> | <del>110.1271</del> |
| Phentermine       | Phentermine-D5       | 5.946            | 1128810          | 205839           | 5.4839            | 952.7226            |
| Dextroprphan      | Dextroprphan-D3      | 6.423            | 1715707          | 130652           | 13.1319           | 1018.9737           |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.515            | 1721825          | 78854            | 21.8356           | 1023.7481           |
| Tramadol          | Tramadol-13C-D3      | 6.521            | 16910021         | 824166           | 20.5177           | 1024.8148           |
| Doxylamine        | Doxylamine-D5        | 6.843            | 17471411         | 890806           | 19.6130           | 1036.1463           |
| Bupropion         | Bupropion-D9         | 7.112            | 1940616          | 93250            | 20.8110           | 1016.0958           |
| Zolpidem          | Zolpidem-D6          | 7.203            | 11994072         | 675533           | 17.7550           | 1007.9796           |
| Meprobamate       | Meprobamate-D7       | 7.193            | 940596           | 51533            | 18.2523           | 1079.4949           |
| Trazodone         | Trazodone-D6         | 7.376            | 8077190          | 438204           | 18.4325           | 906.4968            |
| Venlafaxine       | Venlafaxine-D6       | 7.306            | 14019301         | 674015           | 20.7997           | 973.1903            |
| Citalopram        | Citalopram-D6        | 7.398            | 4414804          | 205191           | 21.5156           | 1030.8788           |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432            | 8416213          | 395761           | 21.2659           | 1006.2118           |
| Dextromethorphan  | Dextromethorphan-D3  | 7.428            | 1158395          | 52679            | 21.9898           | 1010.7181           |
| Clonazepam        | Clonazepam-D4        | 7.623            | 635461           | 9774             | 65.0169           | 870.6750            |

*New evaluated A*

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

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| Compound                       | ISTD Compound                     | RT               | Response          | ISTD Resp         | Resp Ratio         | Final Conc                                |
|--------------------------------|-----------------------------------|------------------|-------------------|-------------------|--------------------|---|
| Promethazine                   | Promethazine-D3                   | 7.587            | 6476952           | 318599            | 20.3295            | 1111.6535                                 |
| <del>α-hydroxyalprazolam</del> | <del>α-hydroxyalprazolam-D5</del> | <del>7.681</del> | <del>422352</del> | <del>16796</del>  | <del>25.1459</del> | <del>589.9702</del> <i>not evaluated</i>  |
| Carisoprodol                   | Carisoprodol-D7                   | 7.693            | 3233753           | 171671            | 18.8369            | 1154.8100                                 |
| <del>Lorazepam</del>           | <del>Alprazolam-D5</del>          | <del>7.723</del> | <del>382831</del> | <del>120390</del> | <del>3.1799</del>  | <del>1448.5120</del> <i>Not evaluated</i> |
| Alprazolam                     | Alprazolam-D5                     | 7.727            | 3135793           | 120390            | 26.0469            | 1047.5081                                 |



# ISP FORENSICS - Cd'A Instrument # 62340

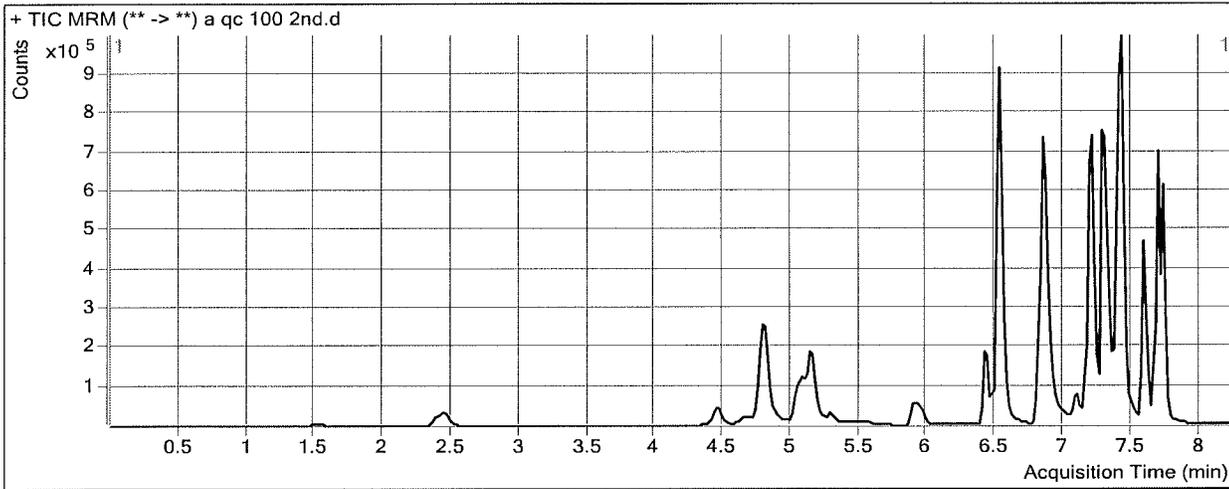
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-25 05:08 | <b>Data File</b>   | a qc 100 2nd.d           |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | a qc 100 2nd             |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-E2            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.528 | 25777    | 2279      | 11.3114    | 94.0263    |
| Hydromorphone     | Hydromorphone-D6     | 2.447 | 123544   | 39022     | 3.1660     | 102.7146   |
| Codeine           | Codeine-D6           | 4.453 | 55752    | 21557     | 2.5863     | 90.3433    |
| Amphetamine       | Amphetamine-D11      | 4.804 | 530512   | 52005     | 10.2011    | 116.7457   |
| Oxycodone         | Oxycodone-D6         | 4.810 | 326184   | 128102    | 2.5463     | 109.4914   |
| Methamphetamine   | Methamphetamine-D11  | 5.162 | 511353   | 183961    | 2.7797     | 95.9287    |
| Hydrocodone       | Hydrocodone-D6       | 5.095 | 201851   | 106366    | 1.8977     | 114.8692   |
| Norhydrocodone    | Norhydrocodone-D3    | 5.138 | 14346    | 40486     | 0.3544     | 108.9673   |
| 6-MAM             | 6-MAM-D6             | 5.289 | 7910     | 35045     | 0.2257     | 9.5704     |
| Phentermine       | Phentermine-D5       | 5.946 | 118109   | 190597    | 0.6197     | 106.5793   |
| Dextroprphan      | Dextroprphan-D3      | 6.423 | 183516   | 133726    | 1.3723     | 106.4728   |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.515 | 236487   | 95949     | 2.4647     | 114.8371   |
| Tramadol          | Tramadol-13C-D3      | 6.521 | 1787581  | 804608    | 2.2217     | 110.1365   |
| Doxylamine        | Doxylamine-D5        | 6.843 | 1444745  | 654080    | 2.2088     | 115.6524   |
| Bupropion         | Bupropion-D9         | 7.112 | 123004   | 56016     | 2.1959     | 105.4262   |
| Zolpidem          | Zolpidem-D6          | 7.203 | 1324307  | 666354    | 1.9874     | 112.2846   |
| Meprobamate       | Meprobamate-D7       | 7.193 | 119602   | 62024     | 1.9283     | 112.7340   |
| Trazodone         | Trazodone-D6         | 7.376 | 731821   | 308387    | 2.3731     | 116.1049   |
| Venlafaxine       | Venlafaxine-D6       | 7.306 | 1359654  | 597616    | 2.2751     | 106.2790   |
| Citalopram        | Citalopram-D6        | 7.398 | 552127   | 250108    | 2.2076     | 105.0938   |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 826395   | 375904    | 2.1984     | 104.0464   |
| Dextromethorphan  | Dextromethorphan-D3  | 7.428 | 109260   | 45994     | 2.3755     | 108.4473   |
| Clonazepam        | Clonazepam-D4        | 7.623 | 99300    | 12739     | 7.7952     | 104.9477   |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

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| Compound                       | ISTD Compound                     | RT               | Response         | ISTD Resp        | Resp Ratio        | Final Conc                                |
|--------------------------------|-----------------------------------|------------------|------------------|------------------|-------------------|---|
| Promethazine                   | Promethazine-D3                   | 7.587            | 589360           | 292806           | 2.0128            | 109.5929                                  |
| <del>a-hydroxyalprazolam</del> | <del>a-hydroxyalprazolam-D5</del> | <del>7.660</del> | <del>49053</del> | <del>20460</del> | <del>2.3975</del> | <del>63.2421</del> <i>Not evaluated *</i> |
| Carisoprodol                   | Carisoprodol-D7                   | 7.693            | 519961           | 326344           | 1.5933            | 97.5402                                   |
| Lorazepam                      | Alprazolam-D5                     | 7.703            | 38384            | 189065           | 0.2030            | 93.8955                                   |
| Alprazolam                     | Alprazolam-D5                     | 7.727            | 501785           | 189065           | 2.6540            | 107.4020                                  |

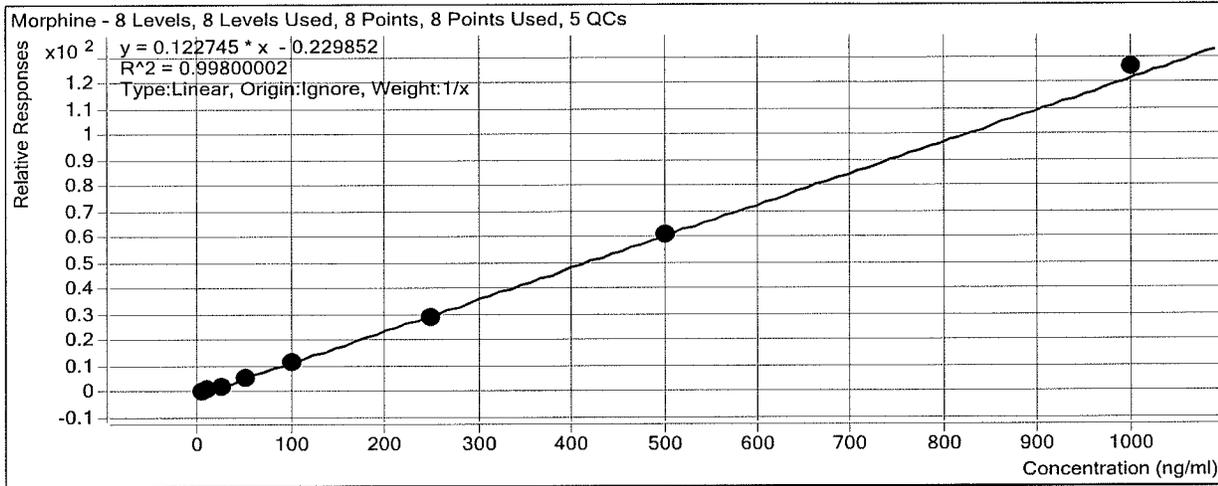


# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM **Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 6.5        | 129.9    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 11.5       | 115.0    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 10.6       | 105.8    |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 20.8       | 83.3     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 45.2       | 90.3     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 93.4       | 93.4     |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 97.0       | 97.0     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 94.0       | 94.0     |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 237.3      | 94.9     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 250.0      | 100.0    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 497.8      | 99.6     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1028.5     | 102.8    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 948.8      | 94.9     |

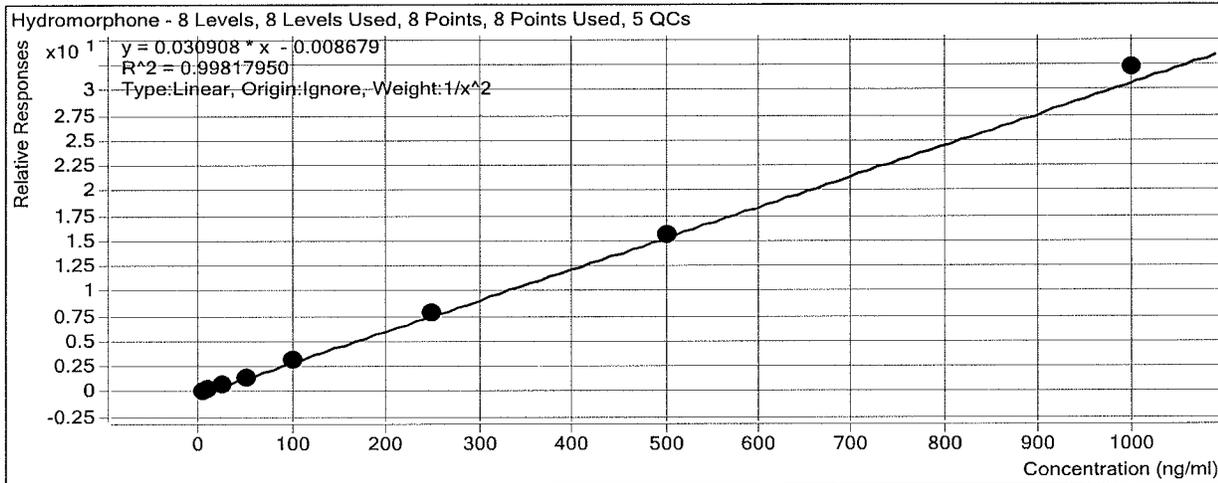
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.2        | 103.6    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.5        | 95.1     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.5        | 94.9     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.1       | 96.4     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 48.0       | 96.0     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 100.8      | 100.8    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 102.2      | 102.2    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 102.7      | 102.7    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 256.0      | 102.4    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 267.8      | 107.1    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 509.0      | 101.8    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1042.4     | 104.2    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1055.5     | 105.6    |

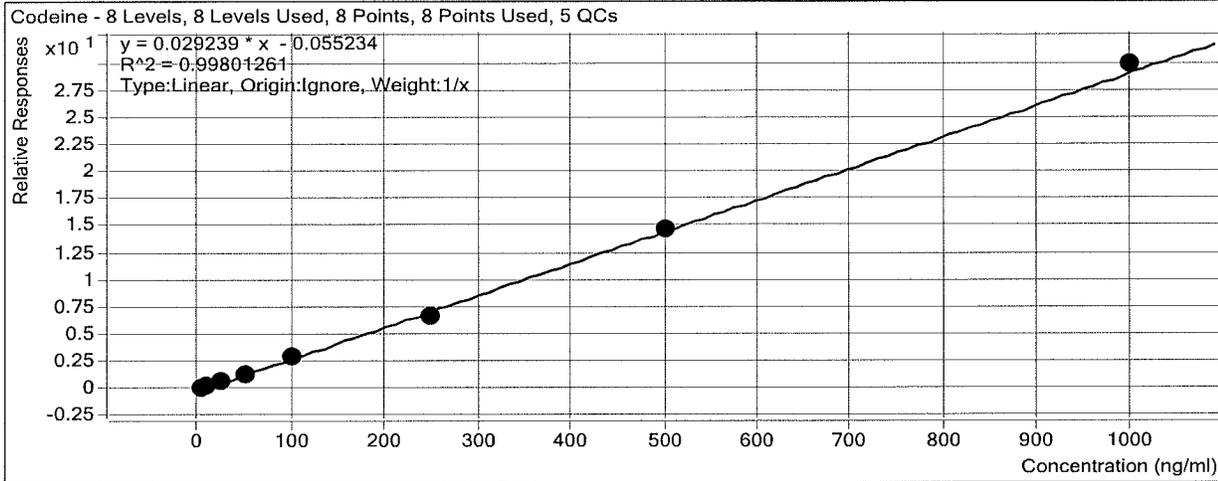
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Codeine  
**Internal Standard** Codeine-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 6.4        | 128.7    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.0       | 100.1    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 96.8     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 22.6       | 90.5     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 44.1       | 88.1     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 100.9      | 100.9    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 90.1       | 90.1     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 90.3       | 90.3     |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 229.8      | 91.9     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 245.3      | 98.1     |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 504.4      | 100.9    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1022.1     | 102.2    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1086.1     | 108.6    |

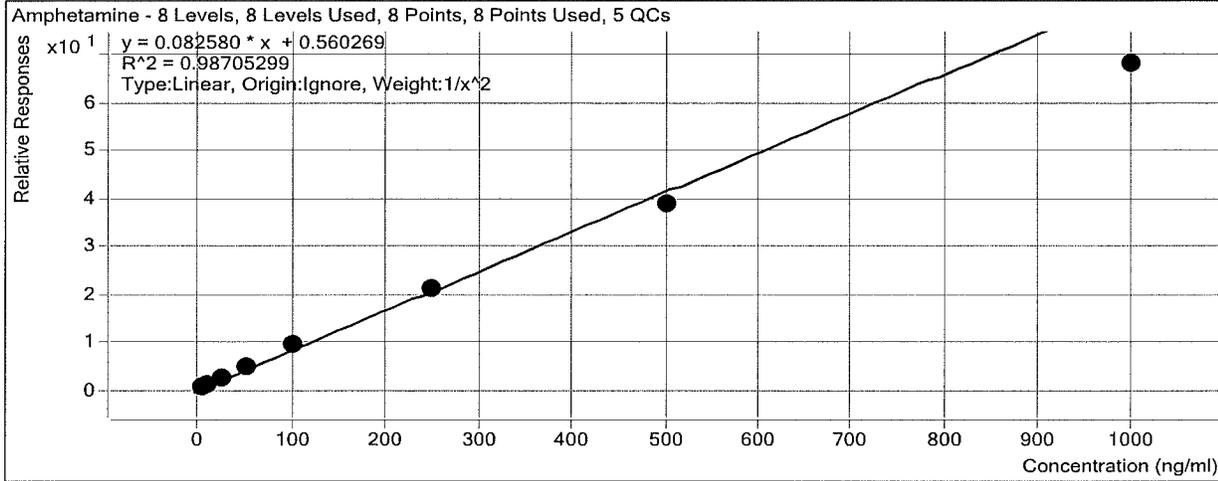
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.7        | 95.0     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 12.4       | 124.0    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 10.6       | 106.0    |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.7       | 102.9    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 55.1       | 110.2    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 111.8      | 111.8    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 118.3      | 118.3    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 116.7      | 116.7    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 248.5      | 99.4     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 266.2      | 106.5    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 464.5      | 92.9     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 818.5      | 81.9     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 890.6      | 89.1     |

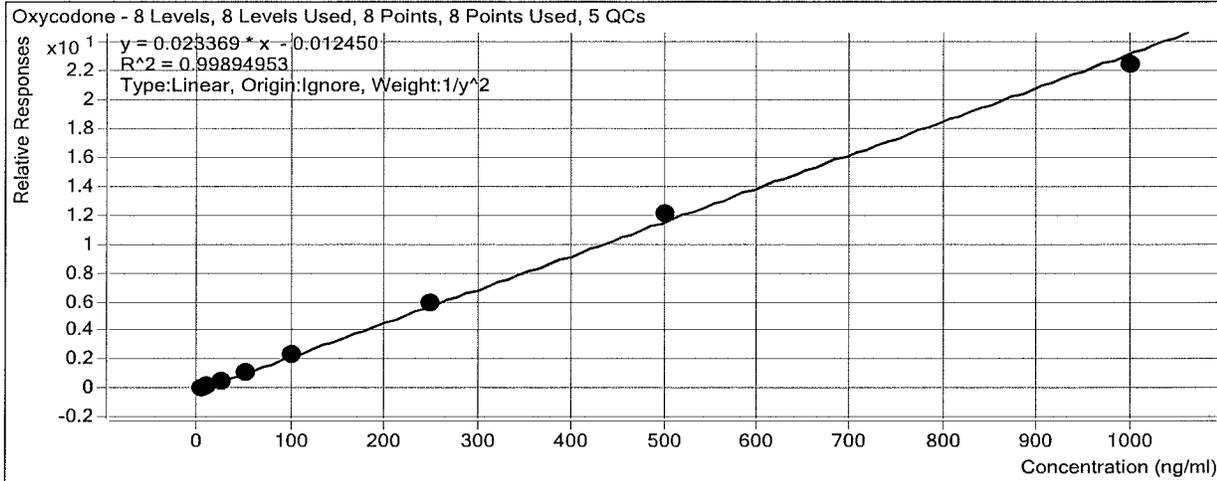
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Oxycodone  
**Internal Standard** Oxycodone-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.0        | 99.7     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.8        | 97.6     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 10.2       | 102.1    |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.1       | 96.5     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.5       | 99.0     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 102.4      | 102.4    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 103.6      | 103.6    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 109.5      | 109.5    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 254.6      | 101.8    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 268.9      | 107.6    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 517.4      | 103.5    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 960.9      | 96.1     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1022.1     | 102.2    |

# ISP Forensics Calibration Curve Report

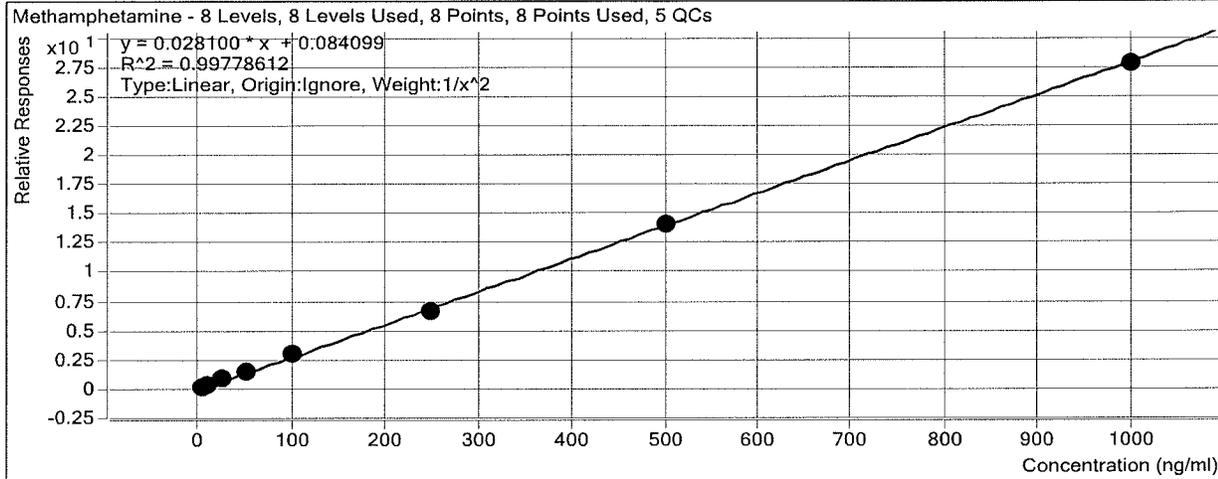
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name**

ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 101.4    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 7.0        | 70.2     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.5        | 95.0     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 26.2       | 104.8    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.7       | 99.4     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 106.0      | 106.0    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 93.8       | 93.8     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 95.9       | 95.9     |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 236.8      | 94.7     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 235.3      | 94.1     |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 500.2      | 100.0    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 986.0      | 98.6     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 987.6      | 98.8     |

# ISP Forensics Calibration Curve Report

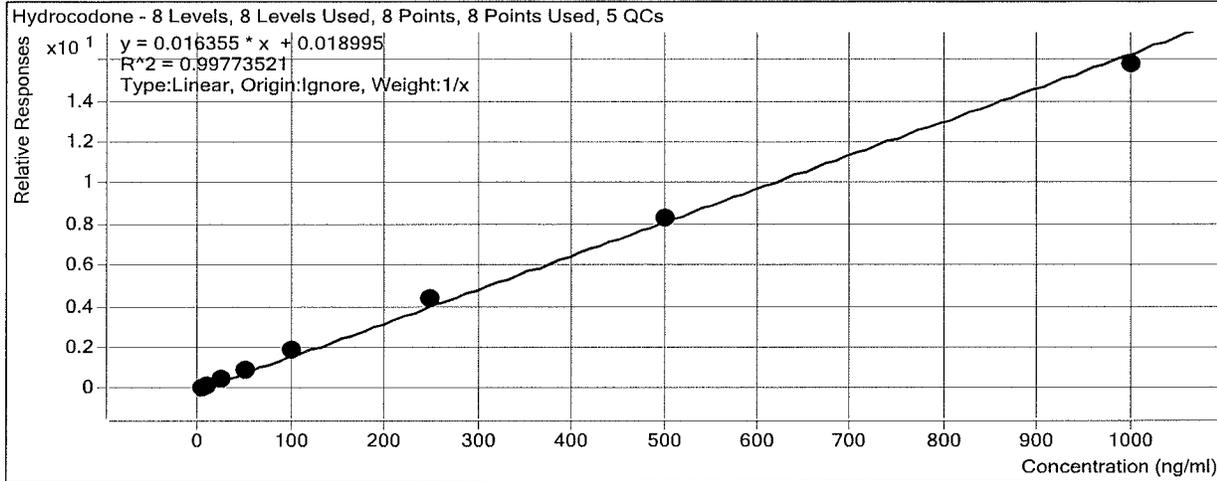
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Hydrocodone

**Internal Standard** Hydrocodone-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.2        | 84.9     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 8.9        | 89.1     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 92.9     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.4       | 101.7    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 52.6       | 105.3    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 111.2      | 111.2    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 114.0      | 114.0    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 114.9      | 114.9    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 264.6      | 105.8    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 280.8      | 112.3    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 510.0      | 102.0    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 962.6      | 96.3     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 966.7      | 96.7     |

# ISP Forensics Calibration Curve Report

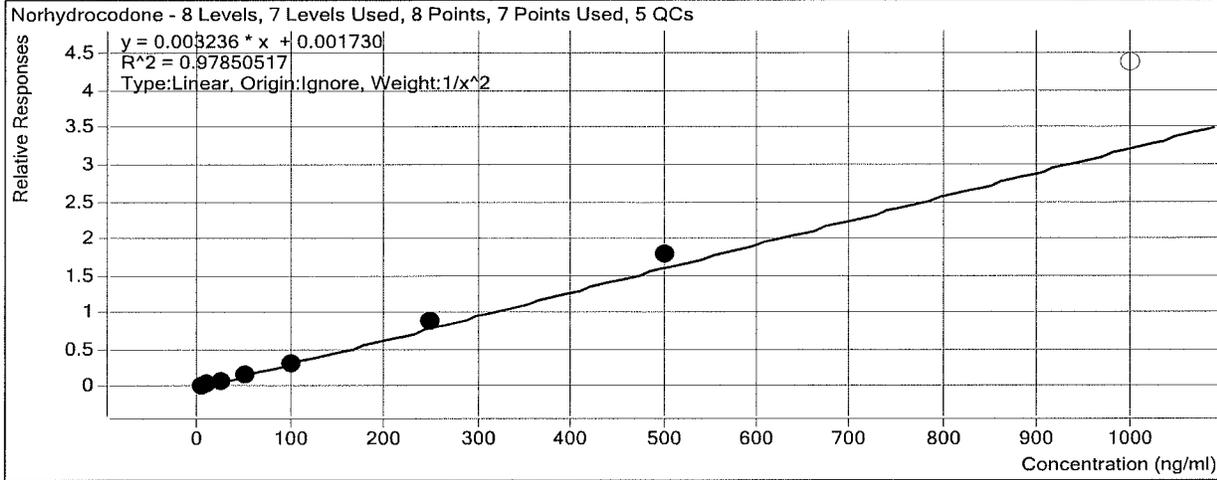
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** *Norhydrocodone*

**Internal Standard** *Norhydrocodone-D3*



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.6        | 112.6    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.0       | 99.7     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 7.6        | 76.2     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.4       | 97.7     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 47.7       | 95.5     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 98.8       | 98.8     |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 103.5      | 103.5    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 109.0      | 109.0    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 273.8      | 109.5    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 297.7      | 119.1    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 549.1      | 109.8    |
| a cal 8-1000ng | 8     | <input type="checkbox"/>            | 1000     | 1352.1     | 135.2    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1283.1     | 128.3    |

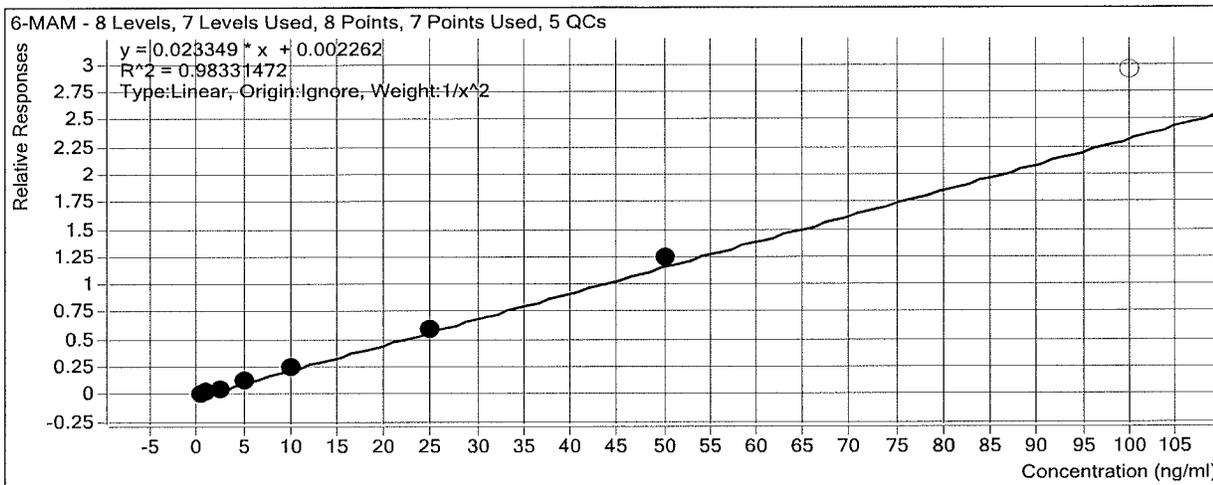
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 0.5      | 0.6        | 110.2    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 1        | 1.0        | 96.1     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 1        | 0.8        | 83.0     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.1        | 85.8     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 5.4        | 107.8    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 10.5       | 105.2    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.3     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 9.6        | 95.7     |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 25.4       | 101.5    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 24.1       | 96.3     |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 53.2       | 106.5    |
| a cal 8-1000ng | 8     | <input type="checkbox"/>            | 100      | 126.1      | 126.1    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 100      | 110.1      | 110.1    |

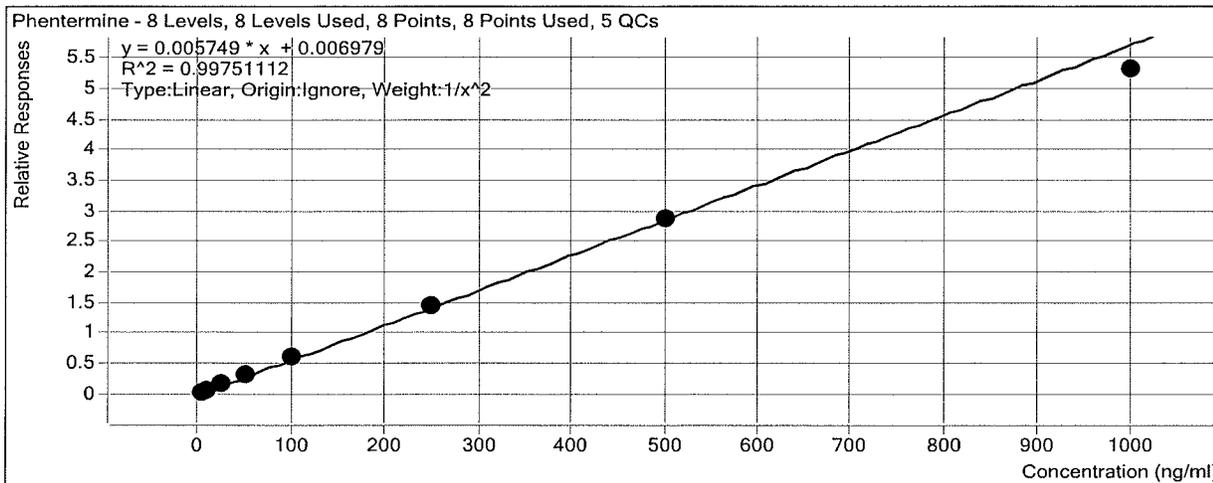
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 101.2    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.1       | 100.7    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 96.6     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.8       | 99.3     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 51.3       | 102.5    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 107.2      | 107.2    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 104.6      | 104.6    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 106.6      | 106.6    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 253.4      | 101.3    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 259.3      | 103.7    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 497.0      | 99.4     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 923.7      | 92.4     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 952.7      | 95.3     |

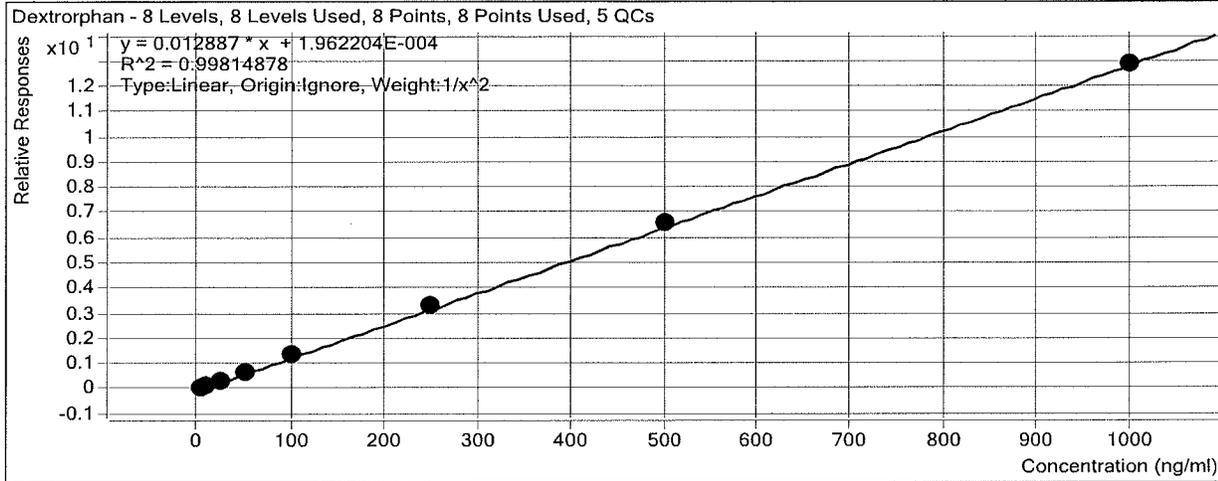
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** *Dextrophan*  
**Internal Standard** *Dextrophan-D3*

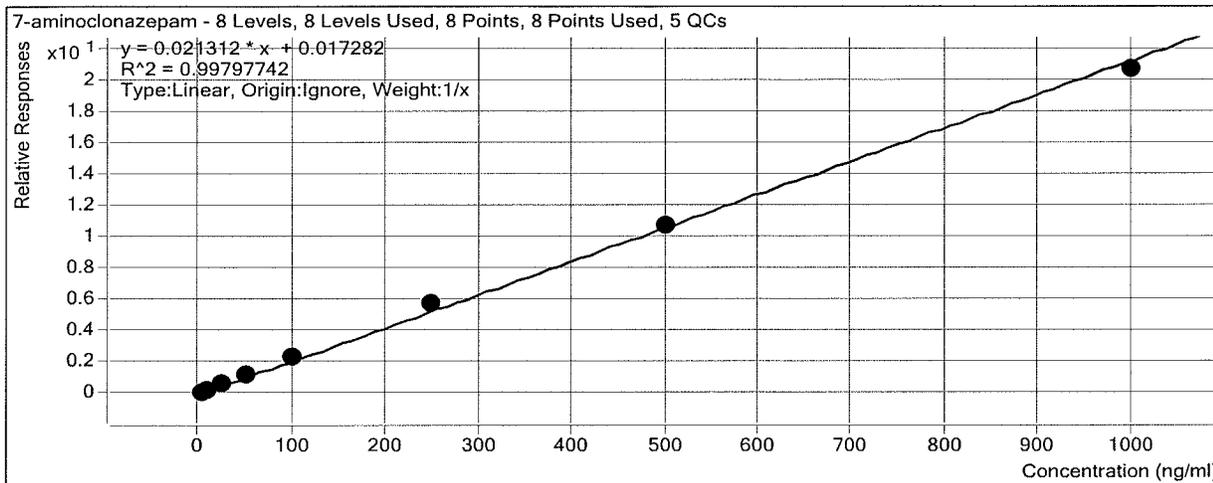


| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.2        | 104.0    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.5        | 94.7     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 93.0     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.3       | 97.1     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.0       | 98.0     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 102.8      | 102.8    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 105.9      | 105.9    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 106.5      | 106.5    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 256.8      | 102.7    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 262.6      | 105.0    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 512.1      | 102.4    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 997.9      | 99.8     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1019.0     | 101.9    |

# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin  
**Last Calib Update** 7/25/2017 12:02 PM **Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.5        | 89.5     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.8        | 98.2     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.0        | 90.2     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.2       | 100.9    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 53.0       | 105.9    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 108.4      | 108.4    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 108.3      | 108.3    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 114.8      | 114.8    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 269.2      | 107.7    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 269.2      | 107.7    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 503.0      | 100.6    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 967.6      | 96.8     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1023.7     | 102.4    |

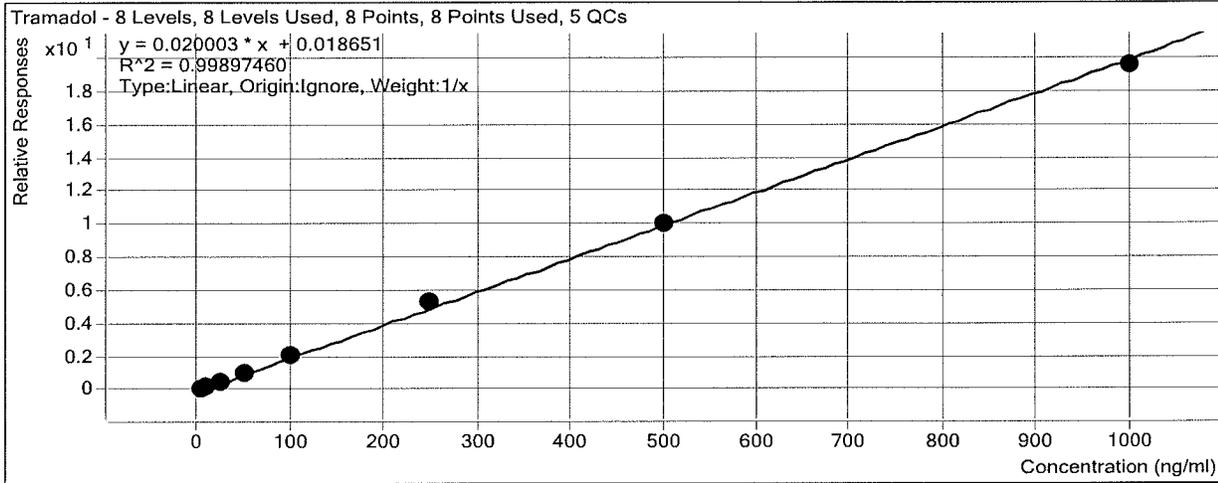
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.9        | 98.6     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.2       | 102.3    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 8.8        | 87.5     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.2       | 101.0    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 51.7       | 103.4    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 105.9      | 105.9    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 106.2      | 106.2    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 110.1      | 110.1    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 263.1      | 105.2    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 256.2      | 102.5    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 503.8      | 100.8    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 976.7      | 97.7     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1024.8     | 102.5    |

# ISP Forensics Calibration Curve Report

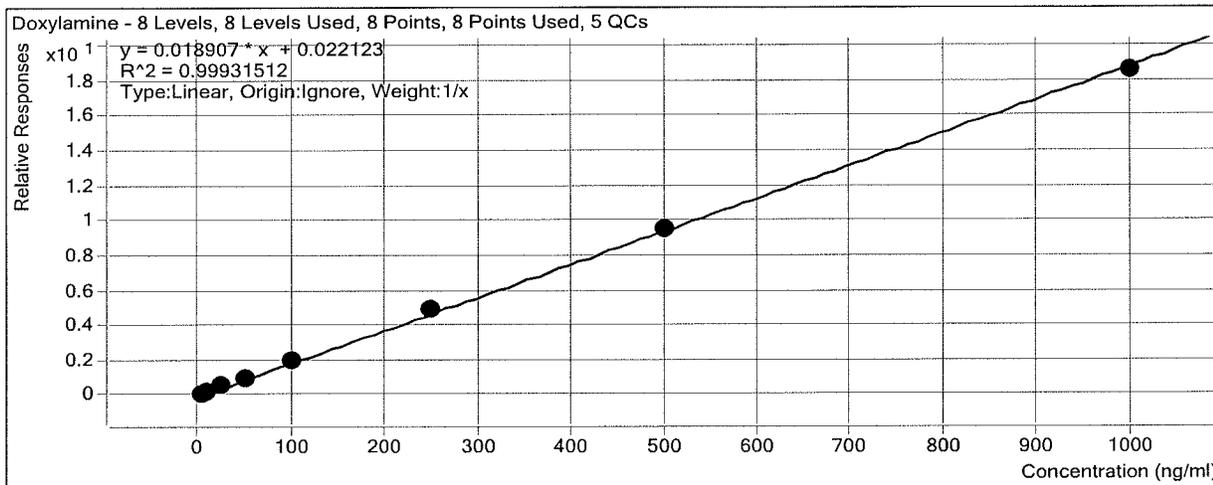
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Doxylamine

**Internal Standard** Doxylamine-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.4        | 88.4     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 8.8        | 87.7     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 10.2       | 101.9    |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.5       | 101.8    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.9       | 99.8     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 104.9      | 104.9    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 104.5      | 104.5    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 115.7      | 115.7    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 260.8      | 104.3    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 272.1      | 108.9    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 504.1      | 100.8    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 980.2      | 98.0     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1036.1     | 103.6    |

# ISP Forensics Calibration Curve Report

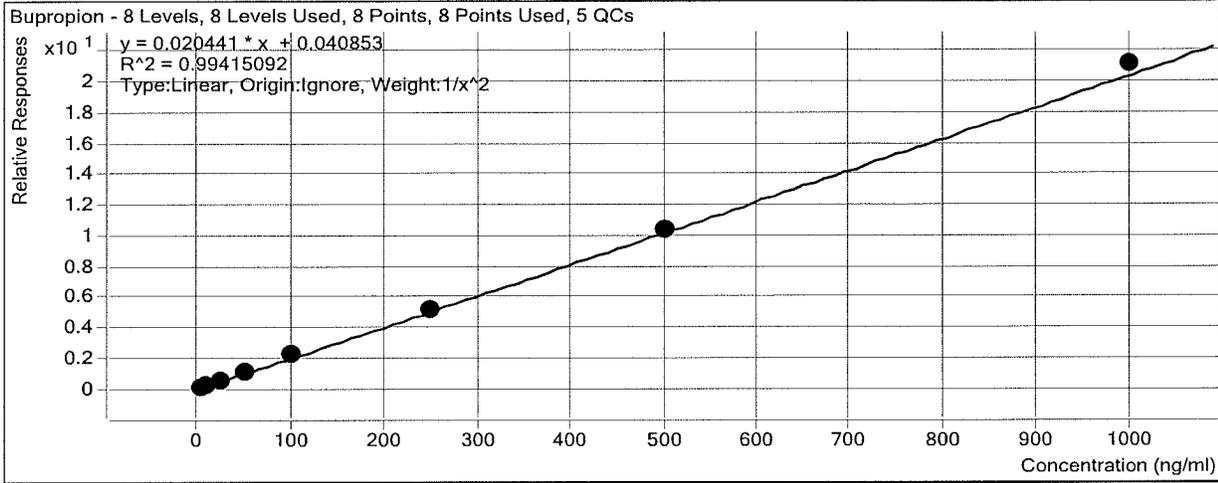
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** *Bupropion*

**Internal Standard** *Bupropion-D9*



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.3        | 105.1    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 8.9        | 88.7     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.4        | 93.7     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 21.7       | 86.7     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 51.6       | 103.1    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 106.7      | 106.7    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 97.8       | 97.8     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 105.4      | 105.4    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 250.5      | 100.2    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 254.2      | 101.7    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 506.5      | 101.3    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1031.1     | 103.1    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1016.1     | 101.6    |

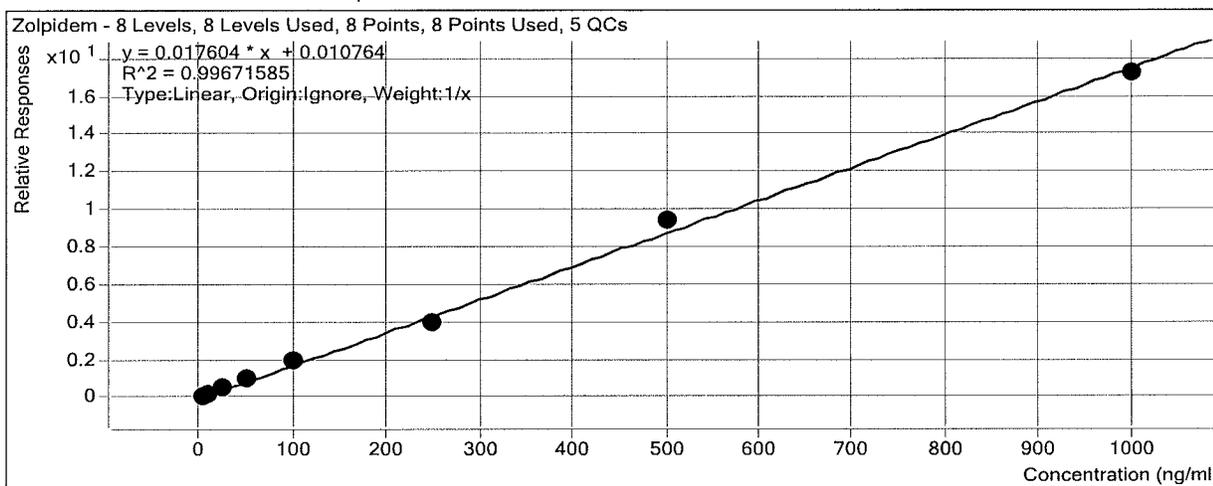
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Zolpidem  
**Internal Standard** Zolpidem-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.5        | 90.5     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.0        | 90.4     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 96.5     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 26.2       | 104.7    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 52.9       | 105.8    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 106.8      | 106.8    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 109.2      | 109.2    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 112.3      | 112.3    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 227.3      | 90.9     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 265.5      | 106.2    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 535.4      | 107.1    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 977.2      | 97.7     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1008.0     | 100.8    |

# ISP Forensics Calibration Curve Report

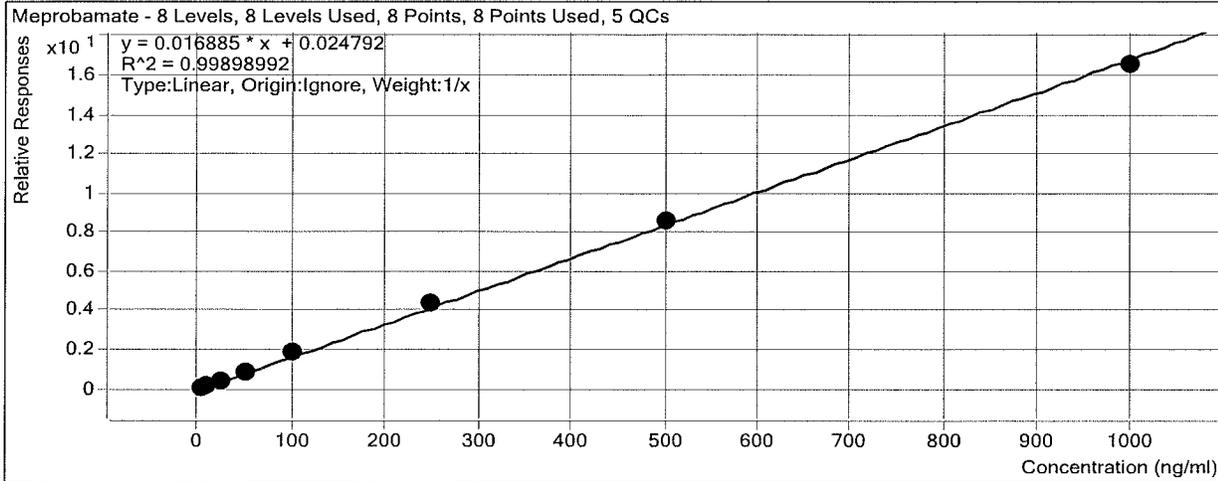
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Meprobamate

**Internal Standard** Meprobamate-D7



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.0        | 101.0    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 8.0        | 80.1     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 8.8        | 88.4     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.8       | 99.1     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 50.3       | 100.7    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 108.1      | 108.1    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 113.3      | 113.3    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 112.7      | 112.7    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 259.5      | 103.8    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 296.4      | 118.6    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 506.7      | 101.3    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 976.7      | 97.7     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1079.5     | 107.9    |

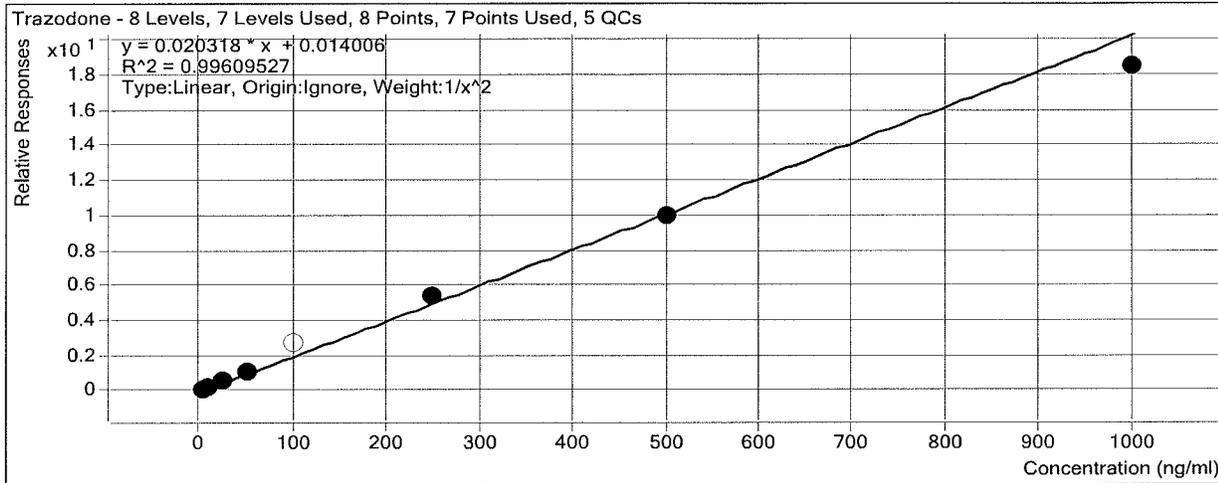
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Trazodone  
**Internal Standard** Trazodone-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.0        | 100.3    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.4       | 104.5    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 96.5     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 26.2       | 104.9    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 51.9       | 103.9    |
| a cal 5-100ng  | 5     | <input type="checkbox"/>            | 100      | 132.2      | 132.2    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 105.9      | 105.9    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 116.1      | 116.1    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 264.1      | 105.6    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 280.8      | 112.3    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 490.3      | 98.1     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 907.0      | 90.7     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 906.5      | 90.6     |

# ISP Forensics Calibration Curve Report

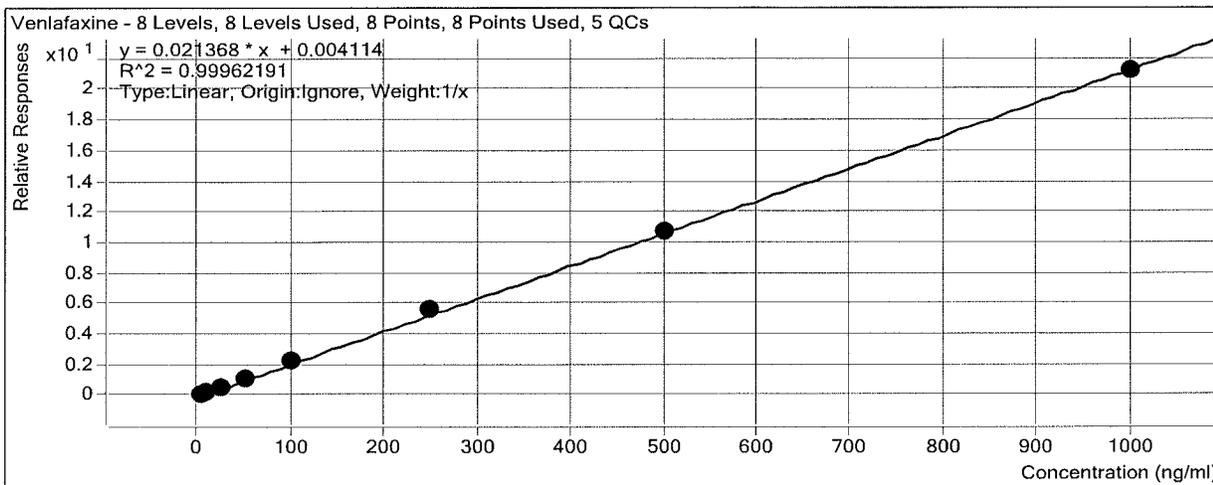
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Venlafaxine

**Internal Standard** Venlafaxine-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.3        | 106.8    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.4       | 104.1    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.2        | 92.5     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.0       | 96.2     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.6       | 99.1     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 102.8      | 102.8    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 109.2      | 109.2    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 106.3      | 106.3    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 259.8      | 103.9    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 249.3      | 99.7     |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 498.5      | 99.7     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 990.7      | 99.1     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 973.2      | 97.3     |

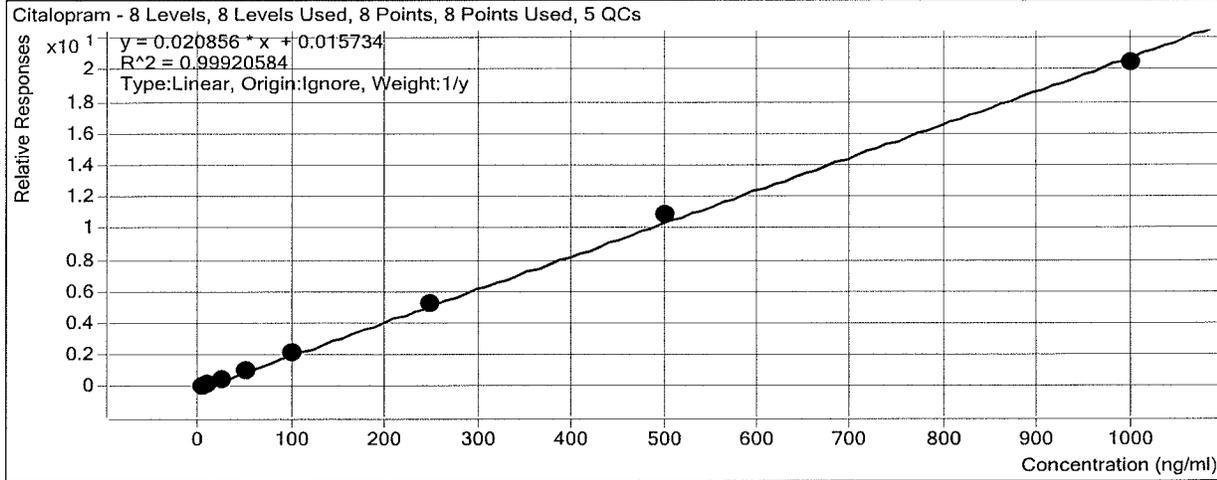
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Citalopram  
**Internal Standard** Citalopram-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 101.3    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.0       | 99.8     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.8        | 98.0     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 23.8       | 95.3     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 51.3       | 102.6    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 100.3      | 100.3    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 113.9      | 113.9    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 105.1      | 105.1    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 252.7      | 101.1    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 264.3      | 105.7    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 520.3      | 104.1    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 978.2      | 97.8     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1030.9     | 103.1    |

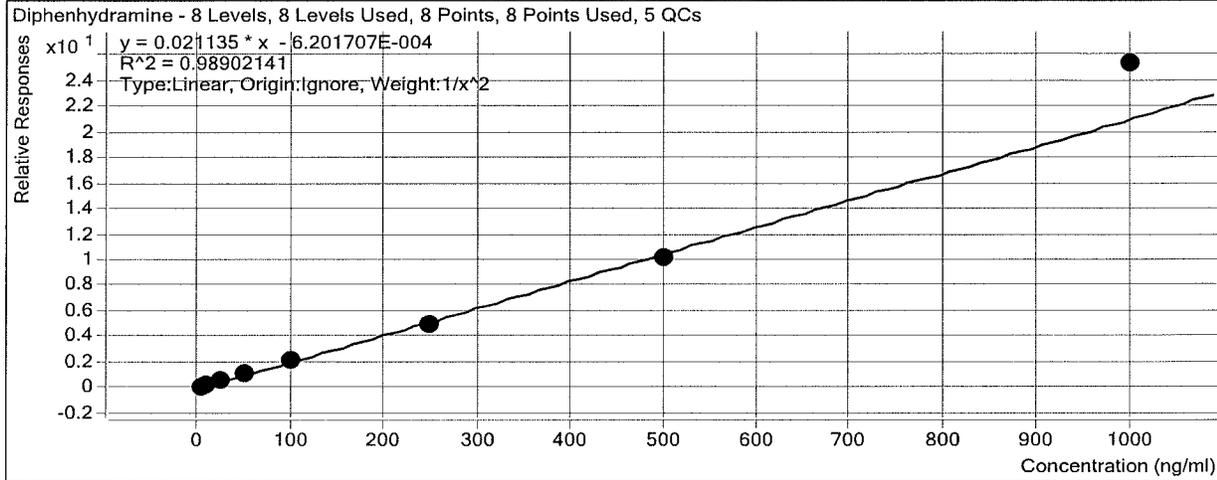
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Diphenhydramine  
**Internal Standard** Diphenhydramine-D3



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.3        | 105.3    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.0       | 99.7     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 92.8     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 23.0       | 91.9     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 50.5       | 100.9    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 98.9       | 98.9     |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 91.6       | 91.6     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 104.0      | 104.0    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 235.8      | 94.3     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 255.9      | 102.4    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 480.9      | 96.2     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1197.7     | 119.8    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1006.2     | 100.6    |

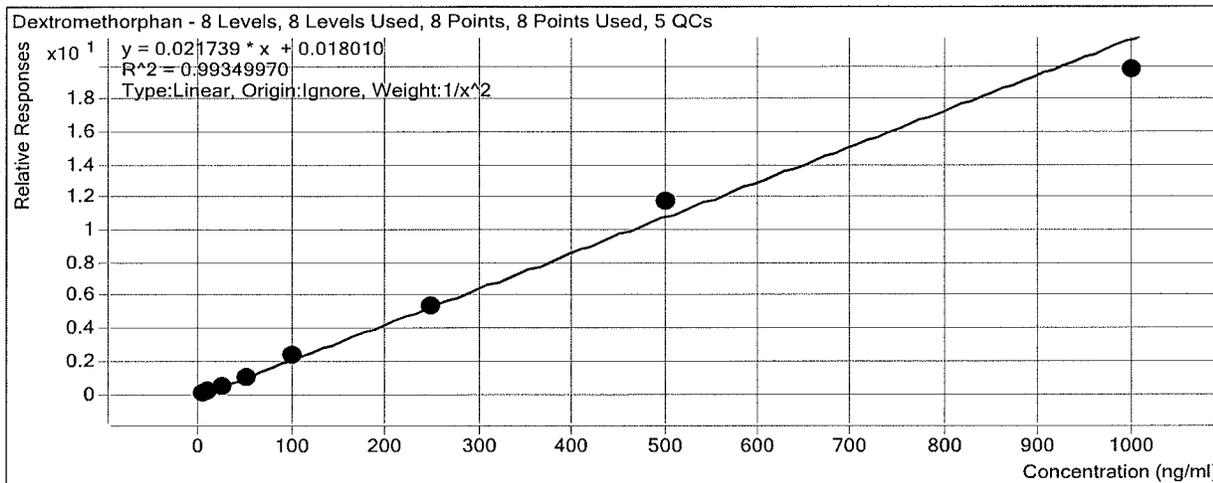
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 102.9    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 92.5     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.6        | 95.9     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 23.5       | 94.0     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 48.8       | 97.6     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 111.5      | 111.5    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 98.2       | 98.2     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 108.4      | 108.4    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 248.7      | 99.5     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 254.9      | 102.0    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 539.2      | 107.8    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 907.6      | 90.8     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1010.7     | 101.1    |

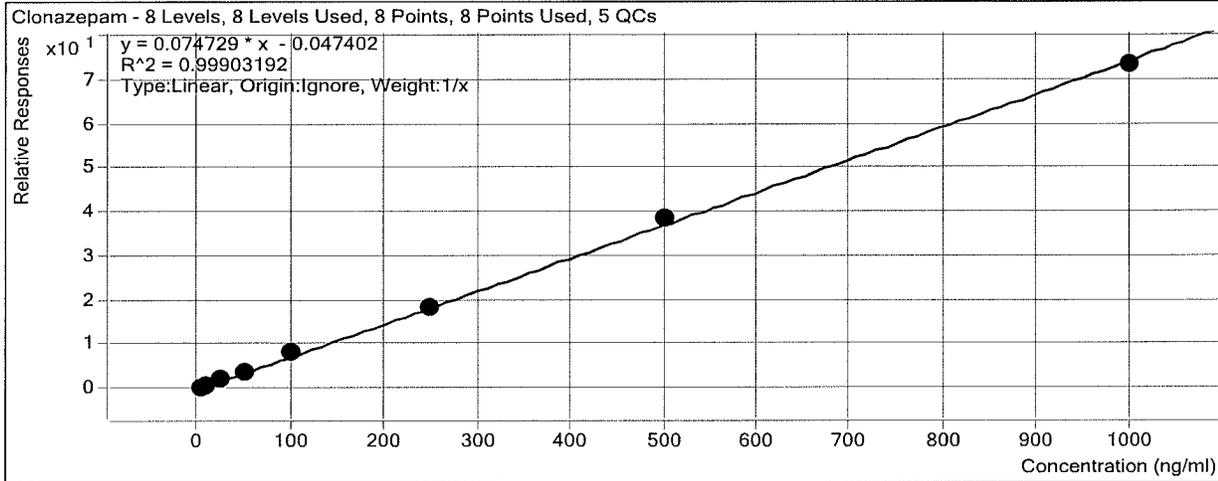
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Clonazepam  
**Internal Standard** Clonazepam-D4



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.6        | 92.2     |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.8       | 108.0    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 10.1       | 101.2    |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.7       | 102.7    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 48.4       | 96.8     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 107.9      | 107.9    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 109.3      | 109.3    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 104.9      | 104.9    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 244.5      | 97.8     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 275.7      | 110.3    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 516.6      | 103.3    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 982.2      | 98.2     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 870.7      | 87.1     |

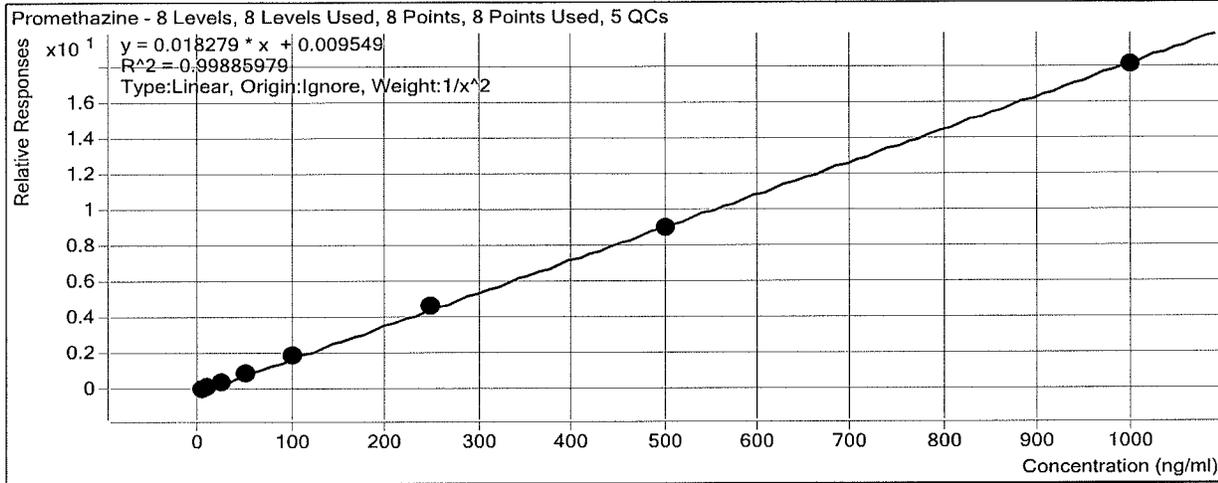
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Promethazine  
**Internal Standard** Promethazine-D3



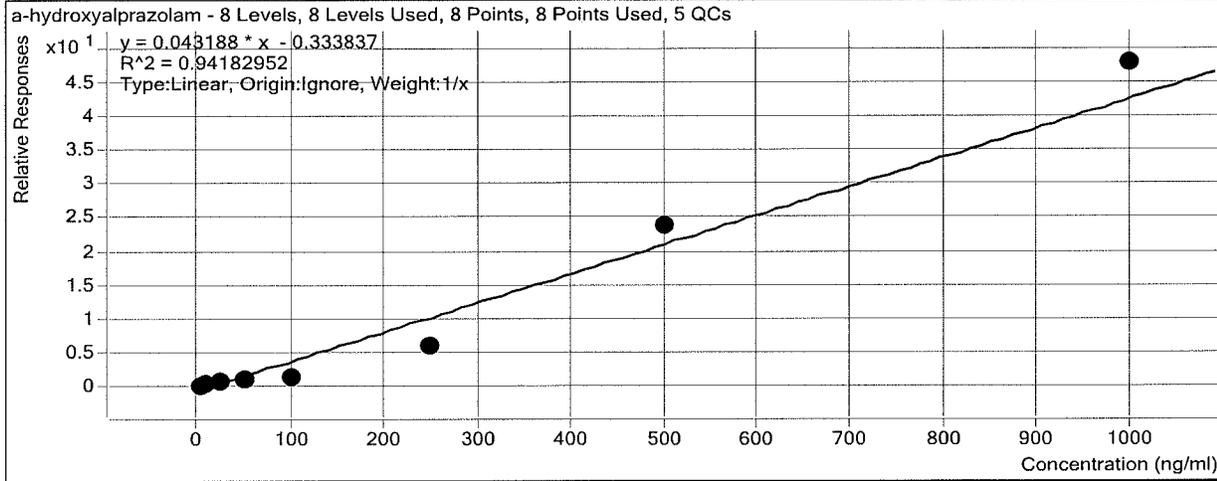
| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 101.9    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.9        | 98.9     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.5     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 23.9       | 95.6     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.9       | 99.8     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 104.4      | 104.4    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 115.0      | 115.0    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 109.6      | 109.6    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 257.4      | 103.0    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 267.3      | 106.9    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 494.8      | 99.0     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 988.3      | 98.8     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1111.7     | 111.2    |

# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM      **Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 10.3       | 205.6    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 12.9       | 129.3    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 12.9       | 129.1    |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 18.7       | 74.9     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 33.0       | 66.0     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 41.4       | 41.4     |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 68.3       | 68.3     |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 63.2       | 63.2     |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 148.9      | 59.5     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 147.0      | 58.8     |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 559.1      | 111.8    |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1115.6     | 111.6    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 590.0      | 59.0     |

Not evaluated in this run  
tops cut off multiple peaks.

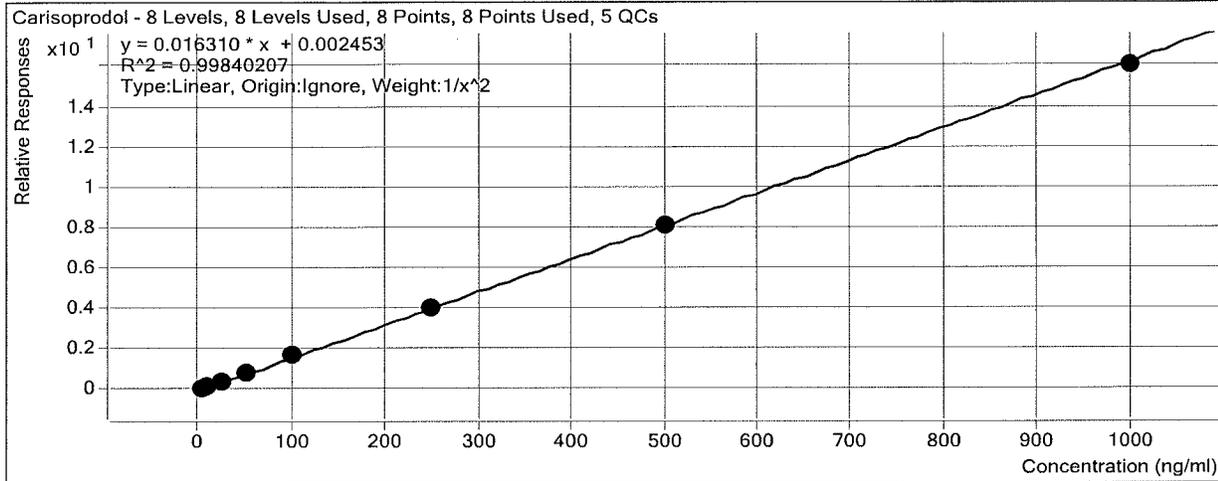
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Carisoprodol  
**Internal Standard** Carisoprodol-D7



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 102.2    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.9        | 99.2     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.4        | 94.1     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.8       | 103.3    |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.3       | 98.6     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 105.3      | 105.3    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 117.9      | 117.9    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 97.5       | 97.5     |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 247.9      | 99.2     |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 287.0      | 114.8    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 496.1      | 99.2     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 981.0      | 98.1     |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1154.8     | 115.5    |

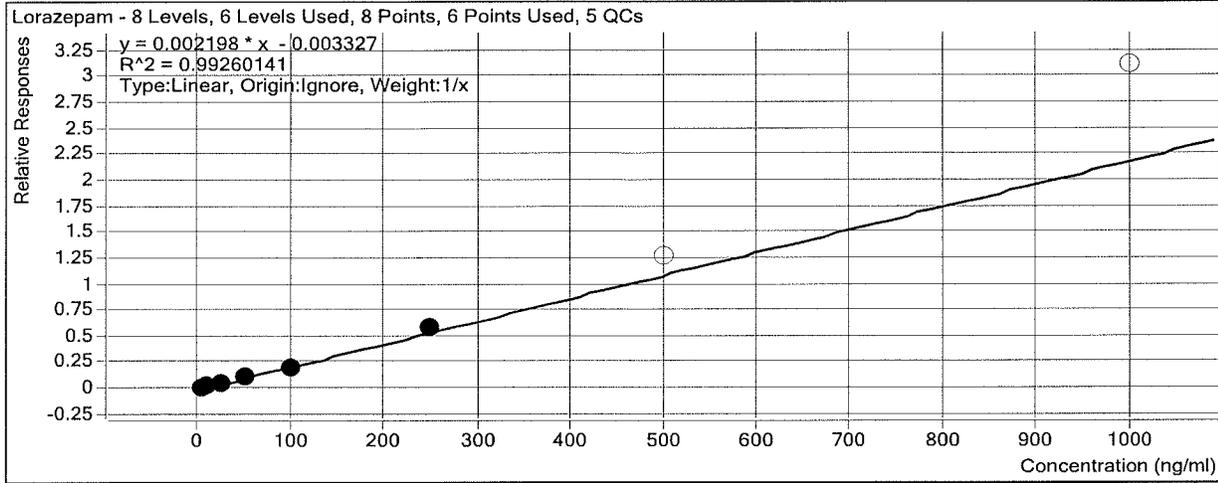
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Lorazepam  
**Internal Standard** Alprazolam-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 6.3        | 125.6    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.6       | 105.6    |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 8.5        | 85.0     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.9       | 99.7     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 47.5       | 95.0     |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 89.3       | 89.3     |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 100.2      | 100.2    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 93.9       | 93.9     |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 263.5      | 105.4    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 256.9      | 102.7    |
| a cal 7-500ng  | 7     | <input type="checkbox"/>            | 500      | 578.4      | 115.7    |
| a cal 8-1000ng | 8     | <input type="checkbox"/>            | 1000     | 1416.3     | 141.6    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1448.5     | 144.9    |

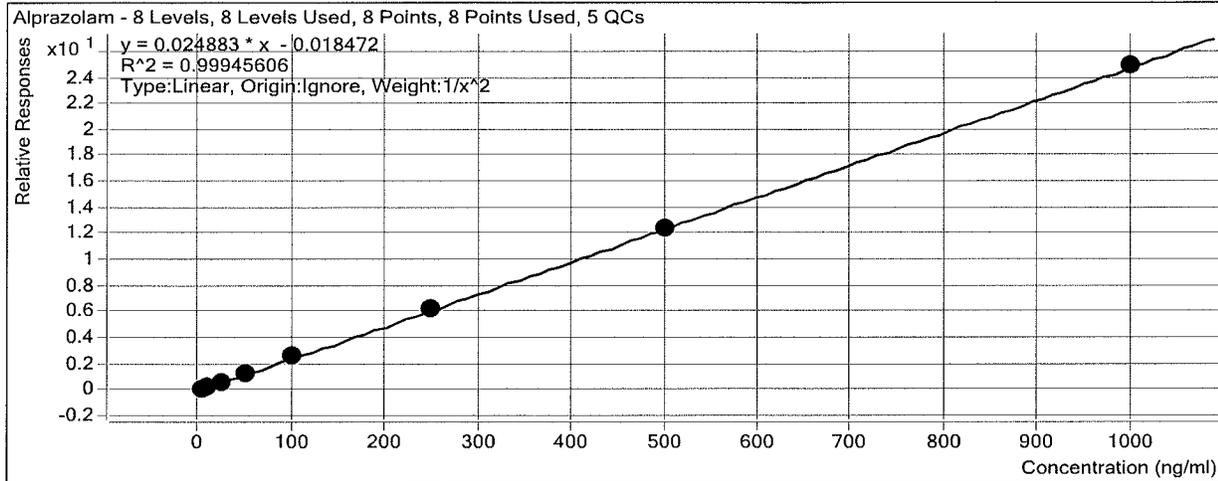
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin

**Last Calib Update** 7/25/2017 12:02 PM

**Analyst Name** ISP TOX

**Target Compound** Alprazolam  
**Internal Standard** Alprazolam-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| a cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 101.7    |
| a QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.4        | 94.5     |
| a cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.3     |
| a cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.4       | 97.5     |
| a cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 50.1       | 100.2    |
| a cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 103.5      | 103.5    |
| a qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 104.5      | 104.5    |
| a qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 107.4      | 107.4    |
| a cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 250.7      | 100.3    |
| a QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 258.3      | 103.3    |
| a cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 497.6      | 99.5     |
| a cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1000.8     | 100.1    |
| a qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1047.5     | 104.8    |

# ISP FORENSICS - Cd'A Instrument # 62340

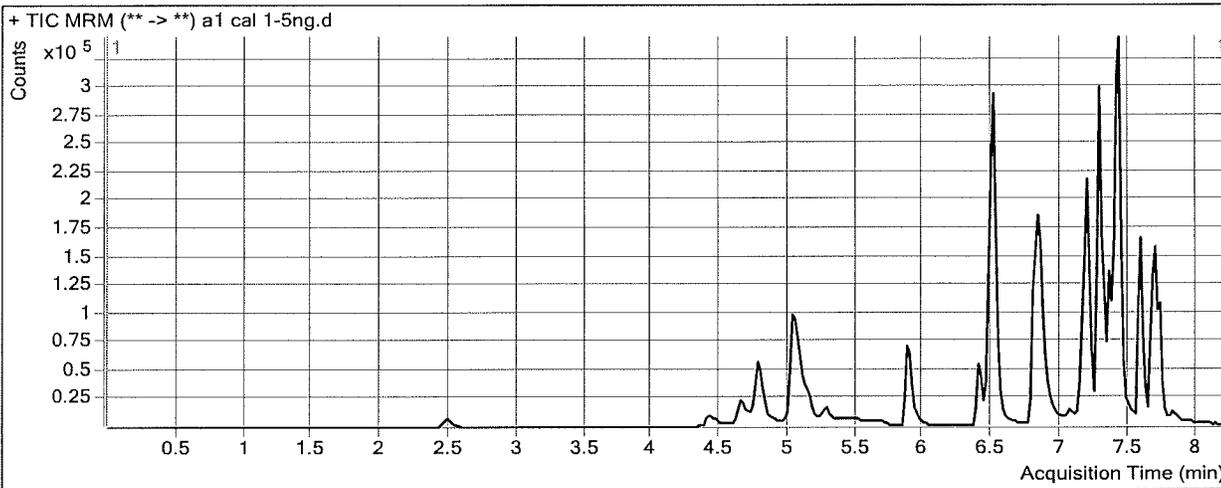
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-25 09:26 | <b>Data File</b>   | a1 cal 1-5ng.d           |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | a cal 1-5ng              |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-A1            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.608 | 925      | 1630      | 0.5671     | 6.4925     |
| Hydromorphone     | Hydromorphone-D6     | 2.507 | 5265     | 34777     | 0.1514     | 5.1786     |
| Codeine           | Codeine-D6           | 4.473 | 2759     | 20763     | 0.1329     | 6.4331     |
| Amphetamine       | Amphetamine-D11      | 4.784 | 75024    | 78765     | 0.9525     | 4.7497     |
| Oxycodone         | Oxycodone-D6         | 4.810 | 14646    | 140803    | 0.1040     | 4.9839     |
| Methamphetamine   | Methamphetamine-D11  | 5.141 | 63803    | 281590    | 0.2266     | 5.0706     |
| Hydrocodone       | Hydrocodone-D6       | 5.075 | 9103     | 102968    | 0.0884     | 4.2438     |
| Norhydrocodone    | Norhydrocodone-D3    | 5.118 | 829      | 41546     | 0.0200     | 5.6306     |
| 6-MAM             | 6-MAM-D6             | 5.289 | 476      | 31473     | 0.0151     | 0.5510     |
| Phentermine       | Phentermine-D5       | 5.926 | 9158     | 253857    | 0.0361     | 5.0612     |
| Dextroprphan      | Dextroprphan-D3      | 6.403 | 9678     | 143965    | 0.0672     | 5.2012     |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.495 | 10053    | 89231     | 0.1127     | 4.4757     |
| Tramadol          | Tramadol-13C-D3      | 6.501 | 93943    | 800884    | 0.1173     | 4.9317     |
| Doxylamine        | Doxylamine-D5        | 6.843 | 75211    | 711519    | 0.1057     | 4.4206     |
| Bupropion         | Bupropion-D9         | 7.091 | 2975     | 20056     | 0.1483     | 5.2574     |
| Zolpidem          | Zolpidem-D6          | 7.203 | 56759    | 627839    | 0.0904     | 4.5240     |
| Meprobamate       | Meprobamate-D7       | 7.173 | 6228     | 56603     | 0.1100     | 5.0480     |
| Trazodone         | Trazodone-D6         | 7.376 | 38947    | 335947    | 0.1159     | 5.0165     |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 80005    | 676921    | 0.1182     | 5.3385     |
| Citalopram        | Citalopram-D6        | 7.398 | 40802    | 336102    | 0.1214     | 5.0664     |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 60741    | 549162    | 0.1106     | 5.2627     |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 8640     | 66550     | 0.1298     | 5.1436     |
| Clonazepam        | Clonazepam-D4        | 7.603 | 3439     | 11583     | 0.2969     | 4.6078     |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

*a cal 1*

| <b>Compound</b>     | <b>ISTD Compound</b>   | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|---------------------|------------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Promethazine        | Promethazine-D3        | 7.587     | 37828           | 368433           | 0.1027            | 5.0945            |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.661     | 2333            | 21169            | 0.1102            | 10.2813           |
| Carisoprodol        | Carisoprodol-D7        | 7.693     | 27468           | 320225           | 0.0858            | 5.1089            |
| Lorazepam           | Alprazolam-D5          | 7.703     | 1869            | 178463           | 0.0105            | 6.2796            |
| Alprazolam          | Alprazolam-D5          | 7.727     | 19277           | 178463           | 0.1080            | 5.0833            |



# ISP FORENSICS - Cd'A Instrument # 62340

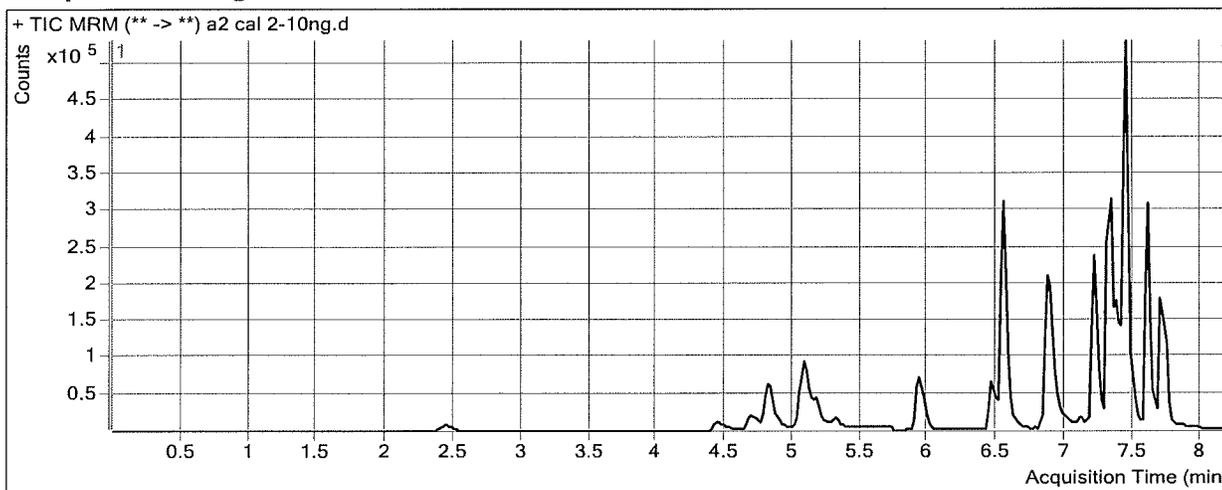
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
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| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-25 09:39 | <b>Data File</b>   | a2 cal 2-10ng.d          |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | a cal 2-10ng             |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-B1            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.548 | 1901     | 1779      | 1.0688     | 10.5800    |
| Hydromorphone     | Hydromorphone-D6     | 2.467 | 9706     | 34113     | 0.2845     | 9.4860     |
| Codeine           | Codeine-D6           | 4.493 | 5162     | 22670     | 0.2277     | 9.6760     |
| Amphetamine       | Amphetamine-D11      | 4.844 | 113244   | 78893     | 1.4354     | 10.5976    |
| Oxycodone         | Oxycodone-D6         | 4.850 | 27598    | 122009    | 0.2262     | 10.2121    |
| Methamphetamine   | Methamphetamine-D11  | 5.182 | 87330    | 248781    | 0.3510     | 9.4994     |
| Hydrocodone       | Hydrocodone-D6       | 5.115 | 18530    | 108441    | 0.1709     | 9.2866     |
| Norhydrocodone    | Norhydrocodone-D3    | 5.179 | 1142     | 43273     | 0.0264     | 7.6173     |
| 6-MAM             | 6-MAM-D6             | 5.329 | 730      | 33725     | 0.0216     | 0.8300     |
| Phentermine       | Phentermine-D5       | 5.987 | 16056    | 256764    | 0.0625     | 9.6633     |
| Dextrophan        | Dextrophan-D3        | 6.463 | 19007    | 158251    | 0.1201     | 9.3048     |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.555 | 18507    | 88368     | 0.2094     | 9.0157     |
| Tramadol          | Tramadol-13C-D3      | 6.560 | 158350   | 817343    | 0.1937     | 8.7531     |
| Doxylamine        | Doxylamine-D5        | 6.883 | 158055   | 735882    | 0.2148     | 10.1897    |
| Bupropion         | Bupropion-D9         | 7.132 | 5852     | 25192     | 0.2323     | 9.3657     |
| Zolpidem          | Zolpidem-D6          | 7.223 | 110647   | 612493    | 0.1807     | 9.6506     |
| Meprobamate       | Meprobamate-D7       | 7.213 | 10195    | 58583     | 0.1740     | 8.8382     |
| Trazodone         | Trazodone-D6         | 7.396 | 83883    | 399208    | 0.2101     | 9.6523     |
| Venlafaxine       | Venlafaxine-D6       | 7.326 | 148373   | 735682    | 0.2017     | 9.2457     |
| Citalopram        | Citalopram-D6        | 7.418 | 87058    | 395475    | 0.2201     | 9.8007     |
| Diphenhydramine   | Diphenhydramine-D3   | 7.452 | 136947   | 700736    | 0.1954     | 9.2762     |
| Dextromethorphan  | Dextromethorphan-D3  | 7.449 | 20993    | 92663     | 0.2266     | 9.5930     |
| Clonazepam        | Clonazepam-D4        | 7.623 | 8398     | 11853     | 0.7085     | 10.1151    |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

*a cal 2*

| <b>Compound</b>     | <b>ISTD Compound</b>   | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|---------------------|------------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Promethazine        | Promethazine-D3        | 7.607     | 121272          | 645973           | 0.1877            | 9.7482            |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.681     | 3962            | 17722            | 0.2236            | 12.9064           |
| Carisoprodol        | Carisoprodol-D7        | 7.713     | 49742           | 318852           | 0.1560            | 9.4148            |
| Lorazepam           | Alprazolam-D5          | 7.723     | 2975            | 193735           | 0.0154            | 8.5018            |
| Alprazolam          | Alprazolam-D5          | 7.747     | 43311           | 193735           | 0.2236            | 9.7267            |



# ISP FORENSICS - Cd'A Instrument # 62340

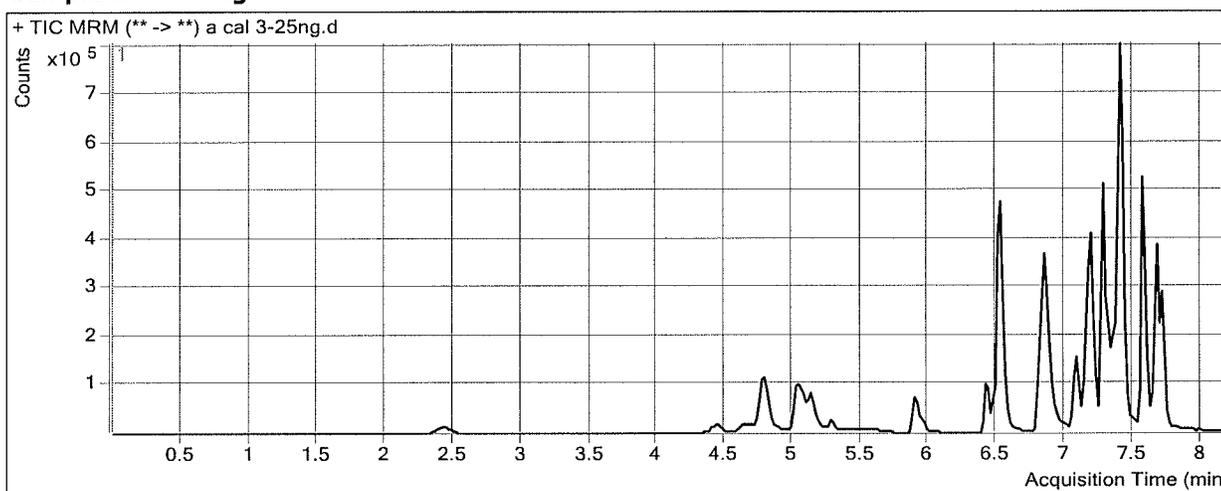
## Multi-Drug Confirmatory Analysis Report

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**Analysis Time** 7/25/2017 12:02 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:05 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 12:02 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 18:21 **Data File** a cal 3-25ng.d  
**Sample Type** Calibration **Sample Name** a cal 3-25ng  
**Dilution** 1 **Acq Method** Quant Panel 1a 2-13-17.m  
**Position** P1-C1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

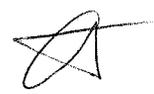
| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.548 | 6469     | 2781      | 2.3261     | 20.8231    |
| Hydromorphone     | Hydromorphone-D6     | 2.447 | 32992    | 44828     | 0.7360     | 24.0929    |
| Codeine           | Codeine-D6           | 4.453 | 17086    | 28170     | 0.6065     | 22.6334    |
| Amphetamine       | Amphetamine-D11      | 4.804 | 212503   | 79145     | 2.6850     | 25.7294    |
| Oxycodone         | Oxycodone-D6         | 4.810 | 91278    | 165536    | 0.5514     | 24.1283    |
| Methamphetamine   | Methamphetamine-D11  | 5.141 | 194992   | 237680    | 0.8204     | 26.2029    |
| Hydrocodone       | Hydrocodone-D6       | 5.075 | 58120    | 133720    | 0.4346     | 25.4136    |
| Norhydrocodone    | Norhydrocodone-D3    | 5.138 | 4387     | 54346     | 0.0807     | 24.4128    |
| 6-MAM             | 6-MAM-D6             | 5.289 | 2345     | 44807     | 0.0523     | 2.1446     |
| Phentermine       | Phentermine-D5       | 5.946 | 37934    | 253349    | 0.1497     | 24.8314    |
| Dextropropion     | Dextropropion-D3     | 6.423 | 57253    | 182820    | 0.3132     | 24.2855    |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.515 | 67498    | 121646    | 0.5549     | 25.2246    |
| Tramadol          | Tramadol-13C-D3      | 6.521 | 508118   | 970601    | 0.5235     | 25.2395    |
| Doxylamine        | Doxylamine-D5        | 6.843 | 450303   | 894485    | 0.5034     | 25.4555    |
| Bupropion         | Bupropion-D9         | 7.091 | 146404   | 302545    | 0.4839     | 21.6747    |
| Zolpidem          | Zolpidem-D6          | 7.183 | 366455   | 777065    | 0.4716     | 26.1777    |
| Meprobamate       | Meprobamate-D7       | 7.173 | 34574    | 78025     | 0.4431     | 24.7741    |
| Trazodone         | Trazodone-D6         | 7.376 | 246461   | 450801    | 0.5467     | 26.2183    |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 424054   | 818855    | 0.5179     | 24.0424    |
| Citalopram        | Citalopram-D6        | 7.378 | 251416   | 490351    | 0.5127     | 23.8299    |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 390012   | 804093    | 0.4850     | 22.9784    |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 53087    | 100341    | 0.5291     | 23.5089    |
| Clonazepam        | Clonazepam-D4        | 7.603 | 26678    | 14257     | 1.8712     | 25.6740    |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

A cal 3

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| Compound            | ISTD Compound          | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Promethazine        | Promethazine-D3        | 7.567 | 374631   | 839203    | 0.4464     | 23.8997    |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.661 | 12643    | 26628     | 0.4748     | 18.7233    |
| Carisoprodol        | Carisoprodol-D7        | 7.672 | 173255   | 409062    | 0.4235     | 25.8185    |
| Lorazepam           | Alprazolam-D5          | 7.703 | 12925    | 251104    | 0.0515     | 24.9355    |
| Alprazolam          | Alprazolam-D5          | 7.706 | 147693   | 251104    | 0.5882     | 24.3798    |



# ISP FORENSICS - Cd'A Instrument # 62340

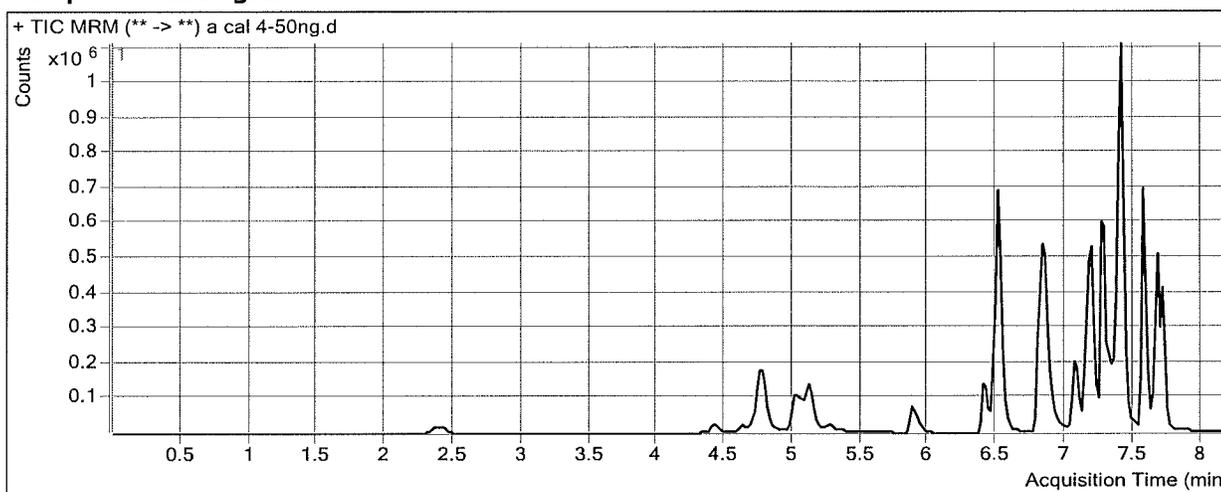
## Multi-Drug Confirmatory Analysis Report

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**Analysis Time** 7/25/2017 12:02 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:05 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 12:02 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 18:47 **Data File** a cal 4-50ng.d  
**Sample Type** Calibration **Sample Name** a cal 4-50ng  
**Dilution** 1 **Acq Method** Quant Panel 1a 2-13-17.m  
**Position** P1-D1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.528 | 12304    | 2315      | 5.3142     | 45.1670    |
| Hydromorphone     | Hydromorphone-D6     | 2.407 | 64743    | 43907     | 1.4745     | 47.9882    |
| Codeine           | Codeine-D6           | 4.432 | 33291    | 26997     | 1.2332     | 44.0649    |
| Amphetamine       | Amphetamine-D11      | 4.764 | 379429   | 74242     | 5.1107     | 55.1034    |
| Oxycodone         | Oxycodone-D6         | 4.790 | 183268   | 160209    | 1.1439     | 49.4831    |
| Methamphetamine   | Methamphetamine-D11  | 5.121 | 359696   | 242930    | 1.4807     | 49.6998    |
| Hydrocodone       | Hydrocodone-D6       | 5.055 | 112381   | 127702    | 0.8800     | 52.6458    |
| Norhydrocodone    | Norhydrocodone-D3    | 5.118 | 8067     | 51650     | 0.1562     | 47.7284    |
| 6-MAM             | 6-MAM-D6             | 5.268 | 5531     | 43166     | 0.1281     | 5.3905     |
| Phentermine       | Phentermine-D5       | 5.926 | 75111    | 248989    | 0.3017     | 51.2609    |
| Dextropropion     | Dextropropion-D3     | 6.403 | 113444   | 179523    | 0.6319     | 49.0198    |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.495 | 135122   | 117902    | 1.1461     | 52.9639    |
| Tramadol          | Tramadol-13C-D3      | 6.501 | 1023039  | 972113    | 1.0524     | 51.6798    |
| Doxylamine        | Doxylamine-D5        | 6.843 | 872702   | 903631    | 0.9658     | 49.9088    |
| Bupropion         | Bupropion-D9         | 7.091 | 292796   | 267379    | 1.0951     | 51.5729    |
| Zolpidem          | Zolpidem-D6          | 7.183 | 728823   | 774036    | 0.9416     | 52.8765    |
| Meprobamate       | Meprobamate-D7       | 7.173 | 66482    | 76006     | 0.8747     | 50.3344    |
| Trazodone         | Trazodone-D6         | 7.356 | 464241   | 434176    | 1.0692     | 51.9354    |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 831612   | 782146    | 1.0632     | 49.5651    |
| Citalopram        | Citalopram-D6        | 7.378 | 474780   | 437204    | 1.0859     | 51.3148    |
| Diphenhydramine   | Diphenhydramine-D3   | 7.412 | 732100   | 686807    | 1.0659     | 50.4640    |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 110517   | 102445    | 1.0788     | 48.7966    |
| Clonazepam        | Clonazepam-D4        | 7.603 | 57066    | 15992     | 3.5685     | 48.3870    |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

A caly

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| Compound            | ISTD Compound          | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Promethazine        | Promethazine-D3        | 7.567 | 693965   | 752644    | 0.9220     | 49.9199    |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.661 | 26386    | 24154     | 1.0924     | 33.0244    |
| Carisoprodol        | Carisoprodol-D7        | 7.672 | 315018   | 390488    | 0.8067     | 49.3131    |
| Lorazepam           | Alprazolam-D5          | 7.703 | 23125    | 228912    | 0.1010     | 47.4825    |
| Alprazolam          | Alprazolam-D5          | 7.706 | 281213   | 228912    | 1.2285     | 50.1121    |



# ISP FORENSICS - Cd'A Instrument # 62340

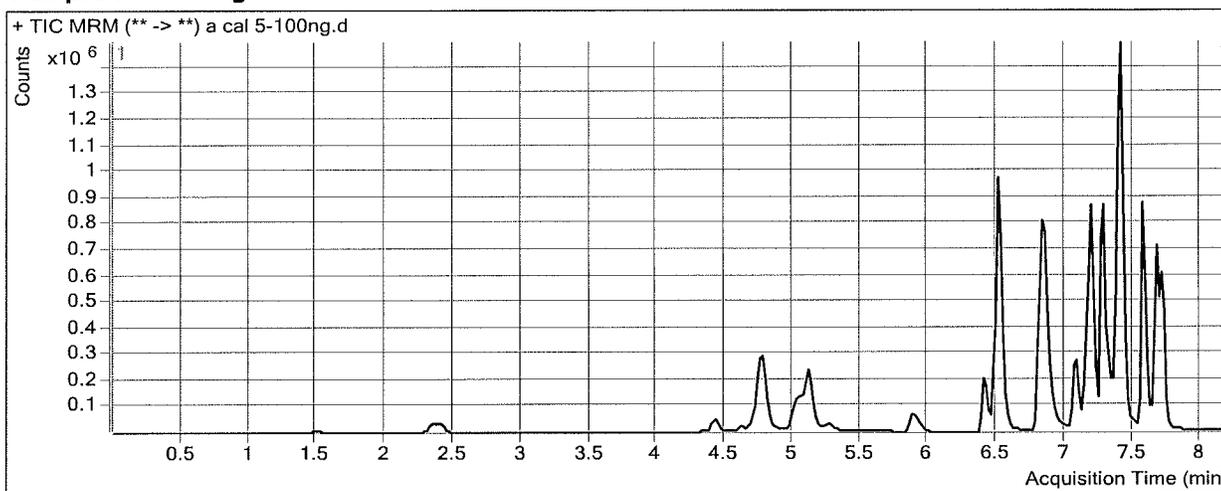
## Multi-Drug Confirmatory Analysis Report

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**Analysis Time** 7/25/2017 12:02 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:05 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 12:02 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 19:12 **Data File** a cal 5-100ng.d  
**Sample Type** Calibration **Sample Name** a cal 5-100ng  
**Dilution** 1 **Acq Method** Quant Panel 1a 2-13-17.m  
**Position** P1-E1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.508 | 24825    | 2209      | 11.2363    | 93.4145    |
| Hydromorphone     | Hydromorphone-D6     | 2.387 | 130631   | 42059     | 3.1059     | 100.7696   |
| Codeine           | Codeine-D6           | 4.432 | 62382    | 21545     | 2.8954     | 100.9173   |
| Amphetamine       | Amphetamine-D11      | 4.764 | 637574   | 65130     | 9.7892     | 111.7579   |
| Oxycodone         | Oxycodone-D6         | 4.790 | 359939   | 151128    | 2.3817     | 102.4481   |
| Methamphetamine   | Methamphetamine-D11  | 5.121 | 655883   | 214077    | 3.0638     | 106.0382   |
| Hydrocodone       | Hydrocodone-D6       | 5.055 | 218169   | 118692    | 1.8381     | 111.2249   |
| Norhydrocodone    | Norhydrocodone-D3    | 5.118 | 14608    | 45466     | 0.3213     | 98.7544    |
| 6-MAM             | 6-MAM-D6             | 5.268 | 9838     | 39691     | 0.2479     | 10.5189    |
| Phentermine       | Phentermine-D5       | 5.926 | 135666   | 217721    | 0.6231     | 107.1780   |
| Dextropropion     | Dextropropion-D3     | 6.403 | 199988   | 150869    | 1.3256     | 102.8447   |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.495 | 255603   | 109772    | 2.3285     | 108.4456   |
| Tramadol          | Tramadol-13C-D3      | 6.501 | 1880417  | 880320    | 2.1361     | 105.8561   |
| Doxylamine        | Doxylamine-D5        | 6.843 | 1563371  | 779736    | 2.0050     | 104.8727   |
| Bupropion         | Bupropion-D9         | 7.091 | 488761   | 219909    | 2.2226     | 106.7311   |
| Zolpidem          | Zolpidem-D6          | 7.183 | 1416251  | 748834    | 1.8913     | 106.8245   |
| Meprobamate       | Meprobamate-D7       | 7.173 | 128772   | 69630     | 1.8494     | 108.0588   |
| Trazodone         | Trazodone-D6         | 7.376 | 863705   | 319889    | 2.7000     | 132.1964   |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 1508576  | 685536    | 2.2006     | 102.7900   |
| Citalopram        | Citalopram-D6        | 7.378 | 804025   | 381675    | 2.1066     | 100.2518   |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 1240886  | 594018    | 2.0890     | 98.8678    |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 189987   | 77822     | 2.4413     | 111.4738   |
| Clonazepam        | Clonazepam-D4        | 7.603 | 107409   | 13402     | 8.0144     | 107.8805   |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

A cal 5

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| Compound            | ISTD Compound          | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Promethazine        | Promethazine-D3        | 7.567 | 1210999  | 631263    | 1.9184     | 104.4273   |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.681 | 33768    | 23201     | 1.4554     | 41.4300    |
| Carisoprodol        | Carisoprodol-D7        | 7.672 | 597780   | 347638    | 1.7195     | 105.2814   |
| Lorazepam           | Alprazolam-D5          | 7.703 | 40821    | 211664    | 0.1929     | 89.2710    |
| Alprazolam          | Alprazolam-D5          | 7.727 | 540972   | 211664    | 2.5558     | 103.4542   |

# ISP FORENSICS - Cd'A Instrument # 62340

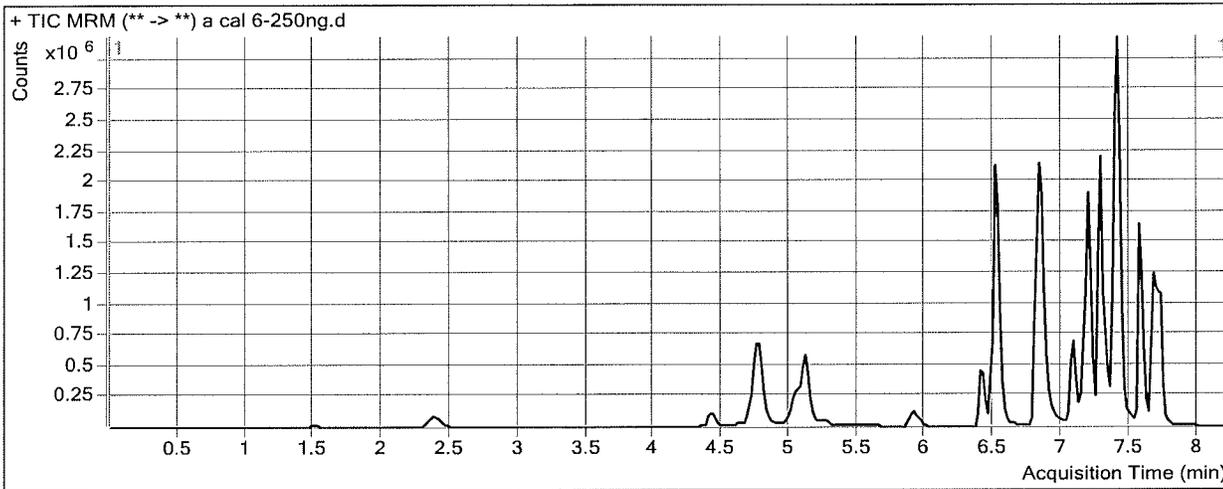
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
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| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-24 19:37 | <b>Data File</b>   | a cal 6-250ng.d          |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | a cal 6-250ng            |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-F1            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.508 | 59817    | 2070      | 28.8915    | 237.2505   |
| Hydromorphone     | Hydromorphone-D6     | 2.387 | 331376   | 41926     | 7.9039     | 256.0063   |
| Codeine           | Codeine-D6           | 4.415 | 145391   | 21823     | 6.6624     | 229.7539   |
| Amphetamine       | Amphetamine-D11      | 4.764 | 1561469  | 74079     | 21.0784    | 248.4641   |
| Oxycodone         | Oxycodone-D6         | 4.770 | 946772   | 159491    | 5.9362     | 254.5505   |
| Methamphetamine   | Methamphetamine-D11  | 5.121 | 1662645  | 246781    | 6.7373     | 236.7708   |
| Hydrocodone       | Hydrocodone-D6       | 5.055 | 558309   | 128467    | 4.3459     | 264.5592   |
| Norhydrocodone    | Norhydrocodone-D3    | 5.118 | 37199    | 41901     | 0.8878     | 273.8129   |
| 6-MAM             | 6-MAM-D6             | 5.268 | 25380    | 42665     | 0.5949     | 25.3806    |
| Phentermine       | Phentermine-D5       | 5.926 | 362503   | 247700    | 1.4635     | 253.3585   |
| Dextroprphan      | Dextroprphan-D3      | 6.403 | 550880   | 166478    | 3.3090     | 256.7546   |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.495 | 601113   | 104445    | 5.7553     | 269.2369   |
| Tramadol          | Tramadol-13C-D3      | 6.501 | 5138420  | 972957    | 5.2812     | 263.0938   |
| Doxylamine        | Doxylamine-D5        | 6.822 | 4531131  | 914659    | 4.9539     | 260.8375   |
| Bupropion         | Bupropion-D9         | 7.091 | 1350586  | 261647    | 5.1619     | 250.5246   |
| Zolpidem          | Zolpidem-D6          | 7.183 | 3179507  | 792495    | 4.0120     | 227.2958   |
| Meprobamate       | Meprobamate-D7       | 7.173 | 313789   | 71197     | 4.4073     | 259.5495   |
| Trazodone         | Trazodone-D6         | 7.376 | 2286197  | 424951    | 5.3799     | 264.0918   |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 4356201  | 784215    | 5.5549     | 259.7633   |
| Citalopram        | Citalopram-D6        | 7.378 | 2051564  | 388065    | 5.2866     | 252.7307   |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 3161717  | 634484    | 4.9831     | 235.8031   |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 436387   | 80435     | 5.4253     | 248.7400   |
| Clonazepam        | Clonazepam-D4        | 7.603 | 254415   | 13961     | 18.2226    | 244.4849   |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

*A cal 6*

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| <b>Compound</b>     | <b>ISTD Compound</b>   | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|---------------------|------------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Promethazine        | Promethazine-D3        | 7.567     | 2922094         | 619734           | 4.7151            | 257.4283          |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.660     | 131699          | 21605            | 6.0958            | 148.8742          |
| Carisoprodol        | Carisoprodol-D7        | 7.693     | 1352014         | 334138           | 4.0463            | 247.9414          |
| Lorazepam           | Alprazolam-D5          | 7.703     | 113067          | 196364           | 0.5758            | 263.5296          |
| Alprazolam          | Alprazolam-D5          | 7.727     | 1221223         | 196364           | 6.2192            | 250.6775          |

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# ISP FORENSICS - Cd'A Instrument # 62340

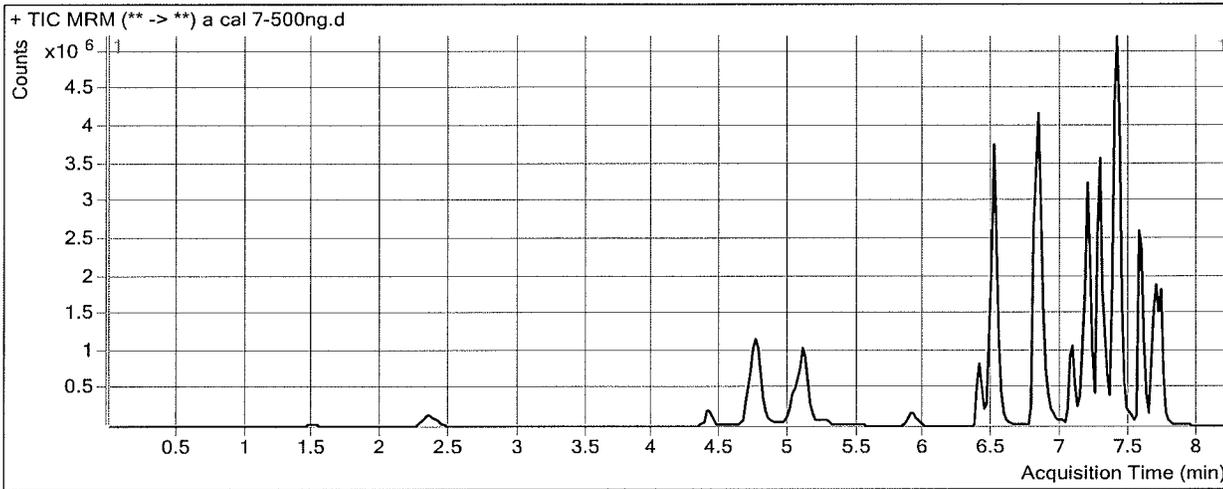
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 12:02 PM   | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:05 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 12:02 PM   | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                          |
|--------------------|------------------|--------------------|--------------------------|
| <b>Acq Time</b>    | 2017-07-24 20:03 | <b>Data File</b>   | a cal 7-500ng.d          |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | a cal 7-500ng            |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1a 2-13-17.m |
| <b>Position</b>    | P1-G1            | <b>Sample Info</b> |                          |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                    |

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.488 | 117697   | 1933      | 60.8745    | 497.8139   |
| Hydromorphone     | Hydromorphone-D6     | 2.367 | 634662   | 40363     | 15.7239    | 509.0170   |
| Codeine           | Codeine-D6           | 4.415 | 269607   | 18349     | 14.6935    | 504.4285   |
| Amphetamine       | Amphetamine-D11      | 4.744 | 2756690  | 70826     | 38.9220    | 464.5413   |
| Oxycodone         | Oxycodone-D6         | 4.770 | 1789007  | 148117    | 12.0784    | 517.3816   |
| Methamphetamine   | Methamphetamine-D11  | 5.101 | 3141518  | 222176    | 14.1398    | 500.2044   |
| Hydrocodone       | Hydrocodone-D6       | 5.035 | 1026362  | 122765    | 8.3604     | 510.0132   |
| Norhydrocodone    | Norhydrocodone-D3    | 5.098 | 65856    | 37023     | 1.7788     | 549.1433   |
| 6-MAM             | 6-MAM-D6             | 5.248 | 47357    | 38025     | 1.2454     | 53.2433    |
| Phentermine       | Phentermine-D5       | 5.926 | 659423   | 230226    | 2.8642     | 497.0238   |
| Dextrophan        | Dextrophan-D3        | 6.403 | 982807   | 148928    | 6.5992     | 512.0604   |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.495 | 1033368  | 96242     | 10.7371    | 502.9908   |
| Tramadol          | Tramadol-13C-D3      | 6.501 | 9417903  | 932865    | 10.0957    | 503.7828   |
| Doxylamine        | Doxylamine-D5        | 6.823 | 8651391  | 905529    | 9.5540     | 504.1309   |
| Bupropion         | Bupropion-D9         | 7.091 | 2273053  | 218674    | 10.3947    | 506.5214   |
| Zolpidem          | Zolpidem-D6          | 7.183 | 6448311  | 683368    | 9.4361     | 535.4155   |
| Meprobamate       | Meprobamate-D7       | 7.173 | 553099   | 64454     | 8.5813     | 506.7429   |
| Trazodone         | Trazodone-D6         | 7.376 | 4078331  | 408790    | 9.9766     | 490.3249   |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 7882051  | 739641    | 10.6566    | 498.5145   |
| Citalopram        | Citalopram-D6        | 7.378 | 3535702  | 325389    | 10.8661    | 520.2537   |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 5794674  | 570151    | 10.1634    | 480.9049   |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 800422   | 68180     | 11.7398    | 539.2080   |
| Clonazepam        | Clonazepam-D4        | 7.603 | 440642   | 11427     | 38.5605    | 516.6417   |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

A cal 7

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| Compound            | ISTD Compound          | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Promethazine        | Promethazine-D3        | 7.567 | 5446054  | 601510    | 9.0540     | 494.7990   |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.661 | 237209   | 9961      | 23.8141    | 559.1332   |
| Carisoprodol        | Carisoprodol-D7        | 7.693 | 2111735  | 260924    | 8.0933     | 496.0796   |
| Lorazepam           | Alprazolam-D5          | 7.703 | 202993   | 160111    | 1.2678     | 578.4281   |
| Alprazolam          | Alprazolam-D5          | 7.727 | 1979449  | 160111    | 12.3630    | 497.5830   |

# ISP FORENSICS - Cd'A Instrument # 62340

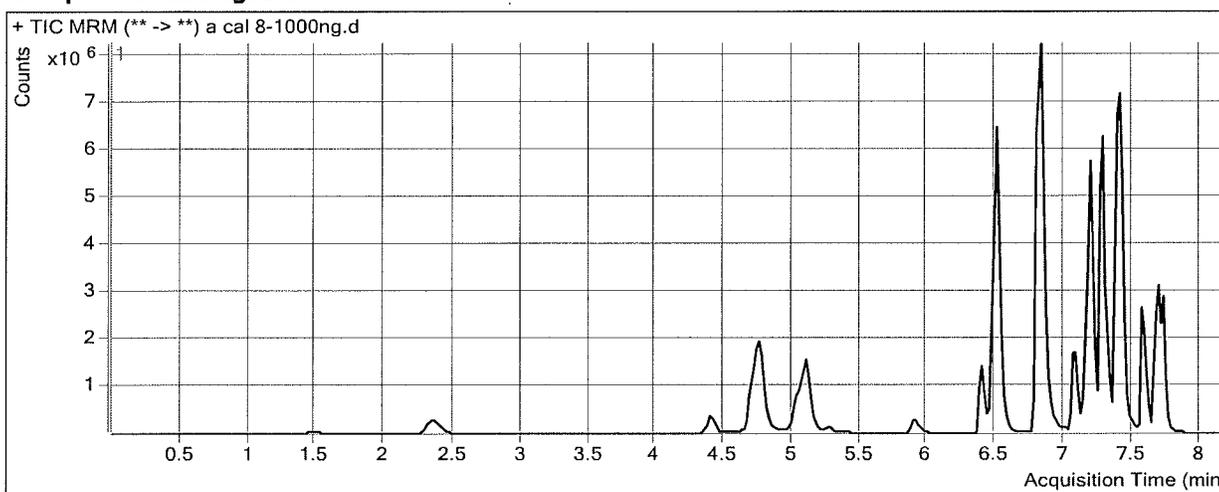
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1a.batch.bin  
**Analysis Time** 7/25/2017 12:02 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:05 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 12:02 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 20:28 **Data File** a cal 8-1000ng.d  
**Sample Type** Calibration **Sample Name** a cal 8-1000ng  
**Dilution** 1 **Acq Method** Quant Panel 1a 2-13-17.m  
**Position** P1-H1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound          | ISTD Compound        | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|-------------------|----------------------|-------|----------|-----------|------------|------------|
| Morphine          | Morphine-D6          | 1.488 | 214952   | 1706      | 126.0086   | 1028.4586  |
| Hydromorphone     | Hydromorphone-D6     | 2.347 | 1155438  | 35871     | 32.2109    | 1042.4440  |
| Codeine           | Codeine-D6           | 4.395 | 514640   | 17253     | 29.8293    | 1022.0928  |
| Amphetamine       | Amphetamine-D11      | 4.744 | 4305215  | 63168     | 68.1551    | 818.5399   |
| Oxycodone         | Oxycodone-D6         | 4.770 | 3544089  | 157914    | 22.4432    | 960.9054   |
| Methamphetamine   | Methamphetamine-D11  | 5.101 | 4477253  | 161113    | 27.7895    | 985.9600   |
| Hydrocodone       | Hydrocodone-D6       | 5.035 | 1921401  | 121895    | 15.7627    | 962.6129   |
| Norhydrocodone    | Norhydrocodone-D3    | 5.098 | 128196   | 29288     | 4.3771     | 1352.0873  |
| 6-MAM             | 6-MAM-D6             | 5.248 | 101499   | 34436     | 2.9475     | 126.1390   |
| Phentermine       | Phentermine-D5       | 5.926 | 1116451  | 209976    | 5.3170     | 923.6891   |
| Dextrorphan       | Dextrorphan-D3       | 6.403 | 1714014  | 133283    | 12.8600    | 997.8760   |
| 7-aminoclonazepam | 7-Aminoclonazepam-D4 | 6.495 | 1734808  | 84051     | 20.6400    | 967.6468   |
| Tramadol          | Tramadol-13C-D3      | 6.501 | 17857035 | 913190    | 19.5546    | 976.6632   |
| Doxylamine        | Doxylamine-D5        | 6.822 | 17295379 | 932117    | 18.5549    | 980.1843   |
| Bupropion         | Bupropion-D9         | 7.091 | 3887218  | 184082    | 21.1167    | 1031.0532  |
| Zolpidem          | Zolpidem-D6          | 7.183 | 12390785 | 719819    | 17.2138    | 977.2353   |
| Meprobamate       | Meprobamate-D7       | 7.173 | 969884   | 58725     | 16.5158    | 976.6541   |
| Trazodone         | Trazodone-D6         | 7.376 | 7449479  | 403918    | 18.4430    | 907.0153   |
| Venlafaxine       | Venlafaxine-D6       | 7.286 | 14965696 | 706772    | 21.1747    | 990.7405   |
| Citalopram        | Citalopram-D6        | 7.378 | 4374294  | 214259    | 20.4159    | 978.1505   |
| Diphenhydramine   | Diphenhydramine-D3   | 7.432 | 8146279  | 321812    | 25.3137    | 1197.7342  |
| Dextromethorphan  | Dextromethorphan-D3  | 7.408 | 958567   | 48541     | 19.7475    | 907.5715   |
| Clonazepam        | Clonazepam-D4        | 7.603 | 767163   | 10459     | 73.3517    | 982.2090   |

ISP FORENSICS - Cd'A Instrument # 62340  
Multi-Drug Confirmatory Analysis Report

A cal 8

| Compound            | ISTD Compound          | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|---------------------|------------------------|-------|----------|-----------|------------|------------|
| Promethazine        | Promethazine-D3        | 7.567 | 5480238  | 303198    | 18.0748    | 988.3044   |
| a-hydroxyalprazolam | a-hydroxyalprazolam-D5 | 7.660 | 462160   | 9659      | 47.8481    | 1115.6273  |
| Carisoprodol        | Carisoprodol-D7        | 7.693 | 3464632  | 216510    | 16.0021    | 980.9987   |
| Lorazepam           | Alprazolam-D5          | 7.703 | 406780   | 130838    | 3.1090     | 1416.2528  |
| Alprazolam          | Alprazolam-D5          | 7.727 | 3255911  | 130838    | 24.8850    | 1000.8145  |



# ISP FORENSICS - Cd'A Instrument # 62340

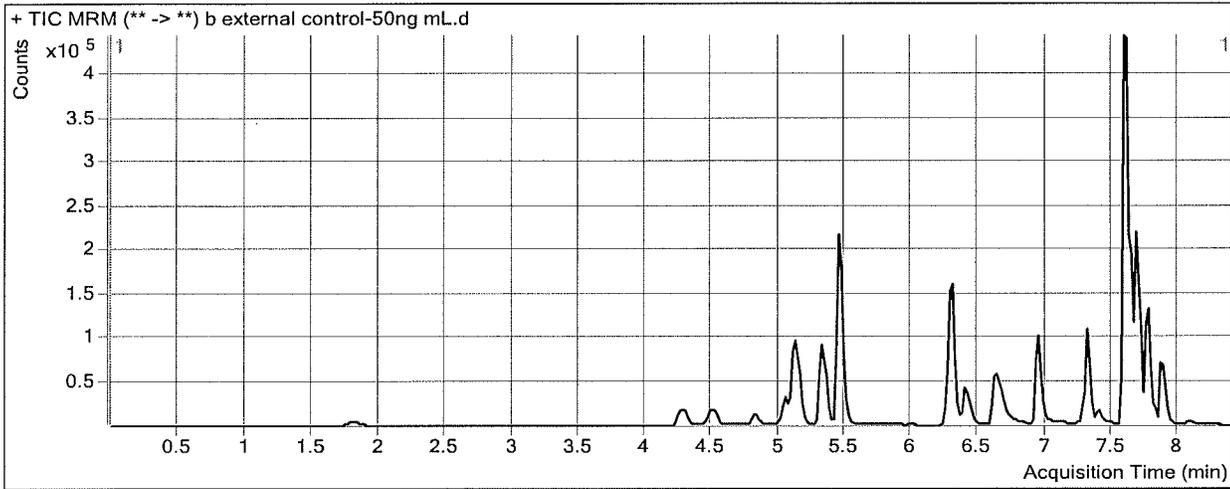
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin  
**Analysis Time** 7/25/2017 1:07 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:01 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 1:07 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 21:44 **Data File** b external control-50ng mL.d  
**Sample Type** Sample **Sample Name** b external control-50ng mL  
**Dilution** 1 **Acq Method** Quant Panel 1b 11-18-2016.m  
**Position** P1-G2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28: lot 81017 50 ng quetiapine

### Sample Chromatogram



### Results

| Compound             | ISTD Compound           | RT    | Response | ISTD Resp | Resp Ratio | Final Conc       |
|----------------------|-------------------------|-------|----------|-----------|------------|------------------|
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.479 | 2092     | 741428    | 0.0028     | 0.4062 <i>LS</i> |
| Buprenorphine        | Buprenorphine-D4        | 7.837 | 315      | 77225     | 0.0041     | 0.1432 <i>LS</i> |
| Quetiapine           | Quetiapine-D8           | 7.600 | 615345   | 144213    | 4.2669     | 58.4871          |

# ISP FORENSICS - Cd'A Instrument # 62340

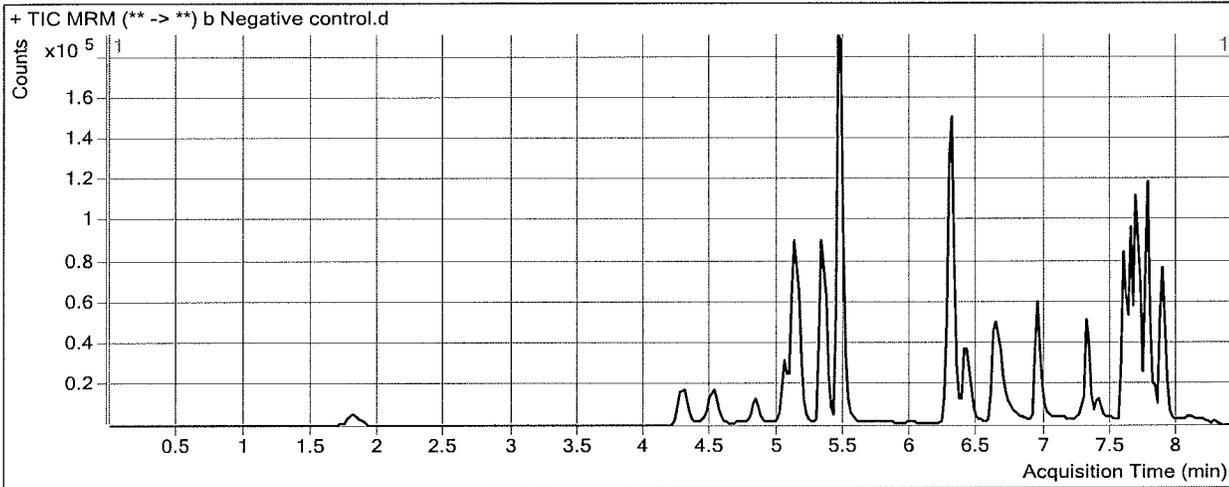
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-24 21:19 | <b>Data File</b>   | b Negative control.d        |
| <b>Sample Type</b> | Sample           | <b>Sample Name</b> | b Negative control          |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-F2            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound             | ISTD Compound           | RT    | Response | ISTD Resp | Resp Ratio | Final Conc   |
|----------------------|-------------------------|-------|----------|-----------|------------|--------------|
| Naltrexone           | Naltrexone-D3           | 5.112 | 170      | 114625    | 0.0015     | 0.3545 < 5   |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.479 | 2079     | 703159    | 0.0030     | 0.4124 < 5   |
| Ketamine             | Ketamine-D4             | 6.301 | 1194     | 207101    | 0.0058     | 0.3615 < 5   |
| Acetyl Fentanyl      | Acetyl Fentanyl-D5      | 6.962 | 630      | 199004    | 0.0032     | 0.2478 < 1.5 |

# ISP FORENSICS - Cd'A Instrument # 62340

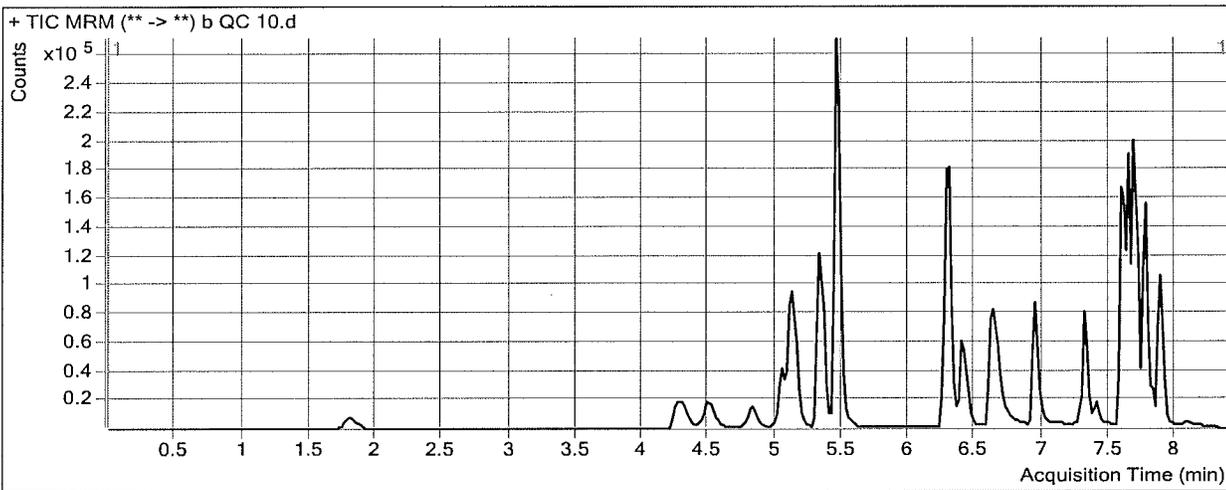
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin  
**Analysis Time** 7/25/2017 1:07 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:01 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 1:07 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 22:10 **Data File** b QC 10.d  
**Sample Type** QC **Sample Name** b QC 10  
**Dilution** 1 **Acq Method** Quant Panel 1b 11-18-2016.m  
**Position** P1-A2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound                    | ISTD Compound                  | RT               | Response        | ISTD Resp         | Resp Ratio        | Final Conc                                     |
|-----------------------------|--------------------------------|------------------|-----------------|-------------------|-------------------|--|
| <del>Oxymorphone</del>      | <del>Oxymorphone-D3</del>      | <del>1.828</del> | <del>8575</del> | <del>39787</del>  | <del>0.2155</del> | <del>9.7050</del> <i>not evaluated</i>         |
| Dihydrocodeine              | Dihydrocodeine-D6              | 4.335            | 18116           | 91615             | 0.1977            | 9.4832   |
| Naloxone                    | Naloxone-D5                    | 4.549            | 10475           | 85922             | 0.1219            | 8.4685   |
| Noroxycodone                | Noroxycodone-D3                | 4.858            | 11519           | 55855             | 0.2062            | 9.2917   |
| Naltrexone                  | Naltrexone-D3                  | 5.071            | 23930           | 118380            | 0.2021            | 10.1207  |
| Acetyl Norfentanyl          | Acetyl Norfentanyl-D5          | 5.184            | 7368            | 352780            | 0.0209            | 1.0296   |
| Naltrexol                   | Naltrexol-D3                   | 5.330            | 69952           | 288902            | 0.2421            | 9.2662   |
| O-desmethyl-tramadol        | O-desmethyl-tramadol-D6        | 5.479            | 167398          | 758658            | 0.2207            | 10.3330  |
| Ketamine                    | Ketamine-D4                    | 6.281            | 54115           | 238217            | 0.2272            | 9.6478   |
| <del>Norfentanyl</del>      | <del>Norfentanyl-D5</del>      | <del>6.324</del> | <del>8288</del> | <del>431300</del> | <del>0.0192</del> | <del>1.3379</del> <i>outside curve range A</i> |
| alpha-PVP                   | alpha-PVP-d8                   | 6.648            | 71279           | 330327            | 0.2158            | 9.8996   |
| Acetyl Fentanyl             | Acetyl Fentanyl-D5             | 6.942            | 5092            | 290422            | 0.0175            | 1.0239   |
| <del>Norbuprenorphine</del> | <del>Norbuprenorphine-D3</del> | <del>7.255</del> | <del>317</del>  | <del>6449</del>   | <del>0.0492</del> | <del>1.5410</del> <i>outside curve range A</i> |
| Fentanyl                    | Fentanyl-D5                    | 7.319            | 5092            | 220545            | 0.0231            | 1.1089   |
| EDDP                        | EDDP-D3                        | 7.410            | 6510            | 35888             | 0.1814            | 9.3370   |
| Buprenorphine               | Buprenorphine-D4               | 7.837            | 1332            | 57900             | 0.0230            | 0.9083   |
| Quetiapine                  | Quetiapine-D8                  | 7.600            | 117484          | 142745            | 0.8230            | 10.3450  |
| Sufentanil                  | Sufentanil-D5                  | 7.599            | 4027            | 156698            | 0.0257            | 1.1955   |
| Cyclobenzaprine             | Cyclobenzaprine-D3             | 7.633            | 21573           | 97010             | 0.2224            | 10.1186  |
| Methadone                   | Methadone-D9                   | 7.643            | 46709           | 253253            | 0.1844            | 10.0128  |
| Fluoxetine                  | Fluoxetine-D6                  | 7.685            | 65245           | 306458            | 0.2129            | 9.9746   |
| Oxazepam                    | Oxazepam-D5                    | 7.730            | 5798            | 25303             | 0.2291            | 10.5684  |
| Sertraline                  | Sertraline-D3                  | 7.746            | 17537           | 79074             | 0.2218            | 11.6482  |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b QC 10

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 39046           | 192487           | 0.2029            | 11.0851           |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 9255            | 24586            | 0.3764            | 12.2872           |
| Diazepam        | Diazepam-D5          | 7.891     | 42781           | 174864           | 0.2447            | 10.3189           |

# ISP FORENSICS - Cd'A Instrument # 62340

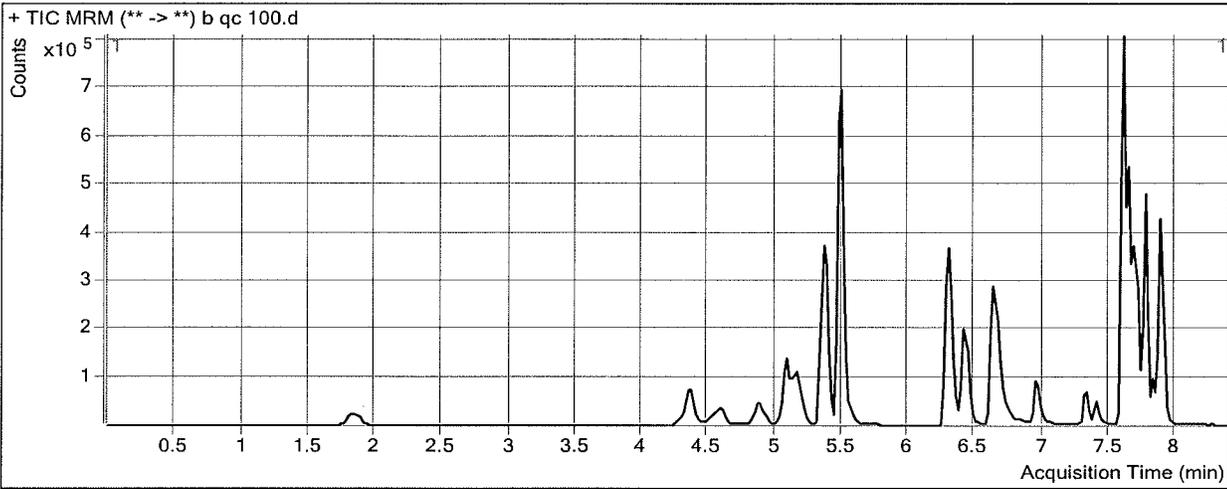
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin  
**Analysis Time** 7/25/2017 1:07 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:01 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 1:07 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-25 01:07 **Data File** b qc 100.d  
**Sample Type** QC **Sample Name** b qc 100  
**Dilution** 1 **Acq Method** Quant Panel 1b 11-18-2016.m  
**Position** P1-B2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response         | ISTD Resp         | Resp Ratio        | Final Conc                               |
|------------------------|---------------------------|------------------|------------------|-------------------|-------------------|--|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.848</del> | <del>96424</del> | <del>39148</del>  | <del>2.4631</del> | <del>107.5577</del> <i>not evaluated</i> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.375            | 197900           | 93647             | 2.1133            | 109.7898                                 |
| Naloxone               | Naloxone-D5               | 4.589            | 120917           | 86412             | 1.3993            | 105.8863                                 |
| Noroxycodone           | Noroxycodone-D3           | 4.897            | 124286           | 53703             | 2.3143            | 105.6948                                 |
| Naltrexone             | Naltrexone-D3             | 5.092            | 239335           | 109739            | 2.1809            | 106.4288                                 |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.204            | 80475            | 352170            | 0.2285            | 10.3535                                  |
| Naltrexol              | Naltrexol-D3              | 5.350            | 739985           | 280488            | 2.6382            | 108.4384                                 |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.499            | 1685569          | 752930            | 2.2387            | 102.2978                                 |
| Ketamine               | Ketamine-D4               | 6.281            | 597083           | 231184            | 2.5827            | 108.4472 <i>OK A</i>                     |
| <del>Norfentanyl</del> | <del>Norfentanyl-D5</del> | <del>6.324</del> | <del>88002</del> | <del>437956</del> | <del>0.2009</del> | <del>9.4456</del>                        |
| alpha-PVP              | alpha-PVP-d8              | 6.648            | 714575           | 311478            | 2.2941            | 104.7133                                 |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.962            | 45131            | 248029            | 0.1820            | 9.9041                                   |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.255            | 990              | 5863              | 0.1688            | 7.4591                                   |
| Fentanyl               | Fentanyl-D5               | 7.319            | 34082            | 155774            | 0.2188            | 9.7285                                   |
| EDDP                   | EDDP-D3                   | 7.410            | 75803            | 38330             | 1.9776            | 92.3371                                  |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 10436            | 43142             | 0.2419            | 9.7598                                   |
| Quetiapine             | Quetiapine-D8             | 7.600            | 1166704          | 145593            | 8.0135            | 110.8602                                 |
| Sufentanil             | Sufentanil-D5             | 7.599            | 25858            | 115644            | 0.2236            | 9.7297                                   |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.633            | 171896           | 69466             | 2.4745            | 108.4251                                 |
| Methadone              | Methadone-D9              | 7.643            | 412105           | 210459            | 1.9581            | 100.4120                                 |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 461081           | 213263            | 2.1620            | 109.9882                                 |
| Oxazepam               | Oxazepam-D5               | 7.730            | 60556            | 26415             | 2.2925            | 100.9674                                 |
| Sertraline             | Sertraline-D3             | 7.746            | 119067           | 57595             | 2.0673            | 99.0127                                  |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b QC 100

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 399943          | 180237           | 2.2190            | 109.4927          |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 98314           | 25322            | 3.8825            | 113.3333          |
| Diazepam        | Diazepam-D5          | 7.891     | 441905          | 171786           | 2.5724            | 104.7546          |



# ISP FORENSICS - Cd'A Instrument # 62340

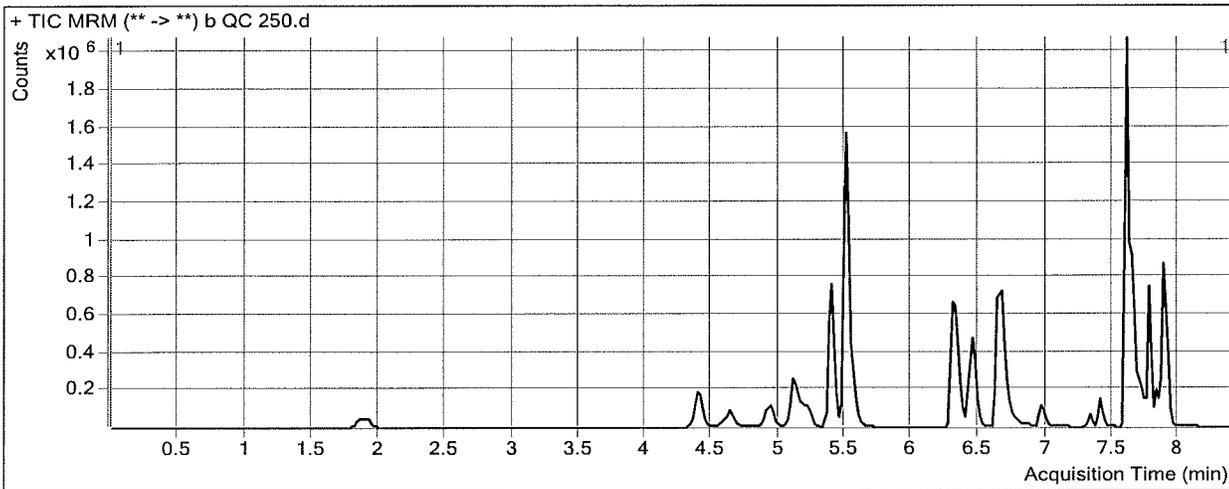
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-25 04:29 | <b>Data File</b>   | b QC 250.d                  |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | b QC 250                    |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-C2            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response          | ISTD Resp        | Resp Ratio        | Final Conc          |
|------------------------|---------------------------|------------------|-------------------|------------------|-------------------|---------------------|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.908</del> | <del>240452</del> | <del>38678</del> | <del>6.2167</del> | <del>270.9789</del> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.395            | 501386            | 95039            | 5.2756            | 275.3862            |
| Naloxone               | Naloxone-D5               | 4.629            | 304328            | 79176            | 3.8437            | 292.3027            |
| Noroxycodone           | Noroxycodone-D3           | 4.937            | 321585            | 54702            | 5.8788            | 268.6983            |
| Naltrexone             | Naltrexone-D3             | 5.112            | 541565            | 96675            | 5.6019            | 272.9275            |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.244            | 208636            | 344303           | 0.6060            | 27.3040             |
| Naltrexol              | Naltrexol-D3              | 5.390            | 1698300           | 262945           | 6.4588            | 266.5697            |
|                        |                           |                  |                   |                  |                   |                     |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.519            | 4259867           | 762567           | 5.5862            | 254.8506            |
| Ketamine               | Ketamine-D4               | 6.301            | 1506156           | 247888           | 6.0760            | 254.9652            |
| Norfentanyl            | Norfentanyl-D5            | 6.344            | 271390            | 472614           | 0.5742            | 26.1006             |
| alpha-PVP              | alpha-PVP-d8              | 6.668            | 2164567           | 375385           | 5.7663            | 263.1088            |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.981            | 103657            | 231467           | 0.4478            | 24.2630             |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.275            | 1995              | 4064             | 0.4909            | 23.3993             |
| Fentanyl               | Fentanyl-D5               | 7.319            | 53728             | 96921            | 0.5544            | 24.5080             |
| EDDP                   | EDDP-D3                   | 7.410            | 270032            | 48706            | 5.5441            | 257.1354            |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 20058             | 31782            | 0.6311            | 25.4994             |
| Quetiapine             | Quetiapine-D8             | 7.600            | 3137055           | 155250           | 20.2064           | 281.3064            |
| Sufentanil             | Sufentanil-D5             | 7.599            | 29229             | 57711            | 0.5065            | 21.9283             |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.633            | 162867            | 25925            | 6.2821            | 274.6280            |
| Methadone              | Methadone-D9              | 7.643            | 824221            | 165583           | 4.9777            | 254.3092            |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 239623            | 42986            | 5.5745            | 285.0885            |
| Oxazepam               | Oxazepam-D5               | 7.730            | 139505            | 25412            | 5.4898            | 241.0500            |
| Sertraline             | Sertraline-D3             | 7.767            | 40358             | 7348             | 5.4925            | 261.1552            |

*Not evaluated*

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

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b QC 250

| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 947557          | 181880           | 5.2098            | 255.4746          |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 231529          | 25060            | 9.2390            | 267.7118          |
| Diazepam        | Diazepam-D5          | 7.891     | 980646          | 163993           | 5.9798            | 242.9899          |



# ISP FORENSICS - Cd'A Instrument # 62340

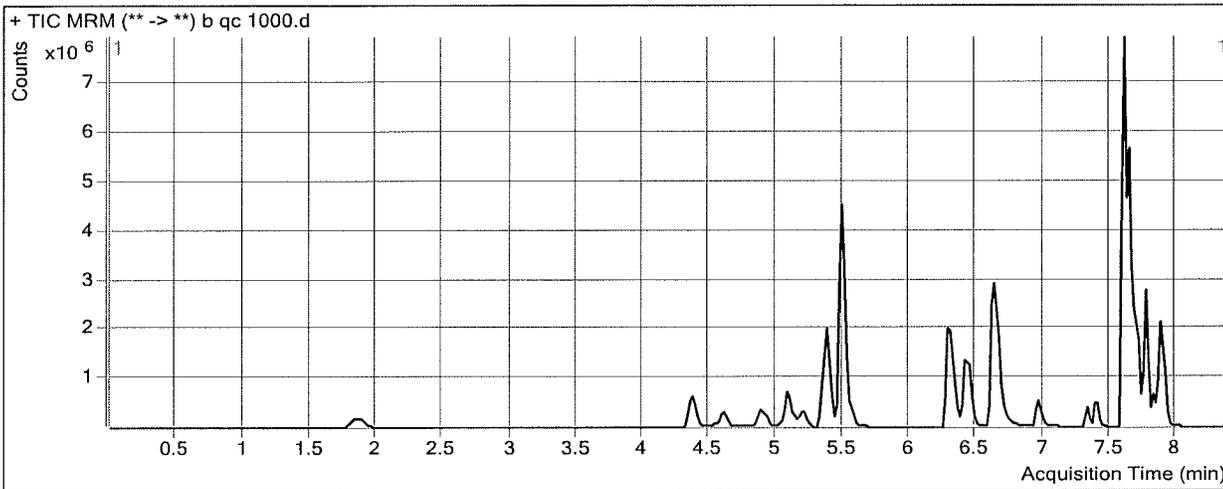
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-25 04:55 | <b>Data File</b>   | b qc 1000.d                 |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | b qc 1000                   |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-D2            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response          | ISTD Resp        | Resp Ratio         | Final Conc                                |
|------------------------|---------------------------|------------------|-------------------|------------------|--------------------|---|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.868</del> | <del>965158</del> | <del>40708</del> | <del>23.7095</del> | <del>1032.5578</del> <i>not evaluated</i> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.375            | 1796740           | 96548            | 18.6098            | 973.6331                                  |
| Naloxone               | Naloxone-D5               | 4.609            | 1185186           | 78318            | 15.1329            | 1153.2585                                 |
| Noroxycodone           | Noroxycodone-D3           | 4.897            | 1120762           | 48465            | 23.1253            | 1057.3804                                 |
| Naltrexone             | Naltrexone-D3             | 5.092            | 1586164           | 78125            | 20.3028            | 988.4179                                  |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.224            | 876458            | 344609           | 2.5433             | 114.3061                                  |
| Naltrexol              | Naltrexol-D3              | 5.370            | 5159063           | 218473           | 23.6142            | 976.6230                                  |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.499            | 14848562          | 683626           | 21.7203            | 990.1059                                  |
| Ketamine               | Ketamine-D4               | 6.281            | 5473769           | 231337           | 23.6615            | 992.5591                                  |
| Norfentanyl            | Norfentanyl-D5            | 6.344            | 1042742           | 436209           | 2.3905             | 107.1340                                  |
| alpha-PVP              | alpha-PVP-d8              | 6.648            | 8087052           | 361571           | 22.3664            | 1020.3984                                 |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.962            | 801527            | 425730           | 1.8827             | 101.7575                                  |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.255            | 10834             | 4857             | 2.2307             | 109.4878                                  |
| Fentanyl               | Fentanyl-D5               | 7.319            | 508764            | 211103           | 2.4100             | 106.2388                                  |
| EDDP                   | EDDP-D3                   | 7.410            | 1131185           | 53193            | 21.2655            | 983.5904                                  |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 106743            | 36922            | 2.8910             | 116.8877                                  |
| Quetiapine             | Quetiapine-D8             | 7.600            | 12587944          | 176546           | 71.3012            | 995.5628                                  |
| Sufentanil             | Sufentanil-D5             | 7.599            | 395942            | 162576           | 2.4354             | 105.1111                                  |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.633            | 1743014           | 71850            | 24.2590            | 1059.3178                                 |
| Methadone              | Methadone-D9              | 7.643            | 5420780           | 278039           | 19.4965            | 994.2840                                  |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 3534840           | 167767           | 21.0700            | 1080.1924                                 |
| Oxazepam               | Oxazepam-D5               | 7.730            | 554956            | 23856            | 23.2630            | 1019.7355                                 |
| Sertraline             | Sertraline-D3             | 7.746            | 935068            | 44002            | 21.2508            | 1007.1287                                 |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b QC 1000

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 3231526         | 153872           | 21.0014           | 1026.2669         |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 730833          | 20196            | 36.1871           | 1044.3696         |
| Diazepam        | Diazepam-D5          | 7.891     | 3152802         | 129291           | 24.3853           | 989.6880          |



# ISP FORENSICS - Cd'A Instrument # 62340

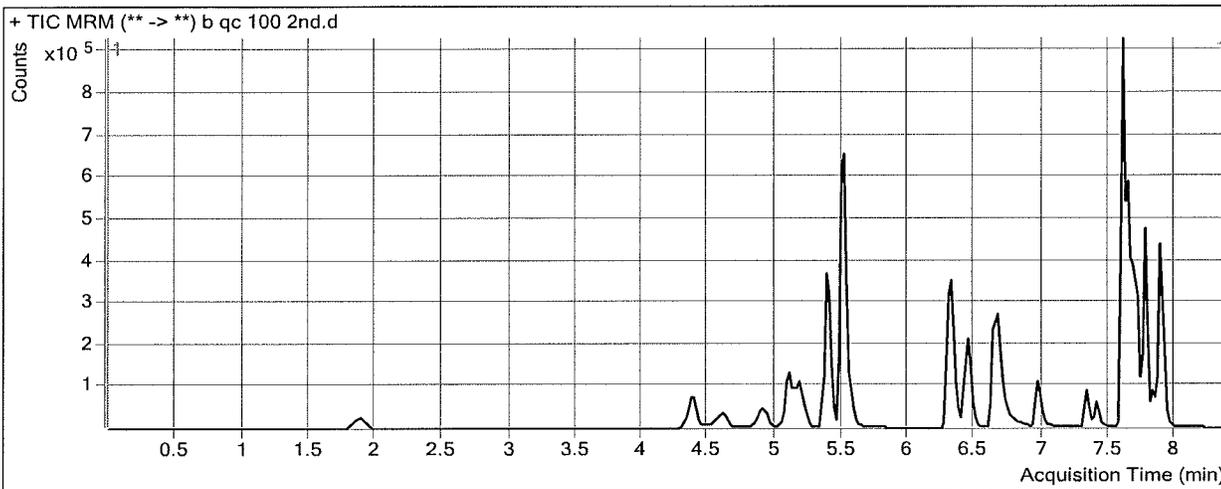
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-25 05:20 | <b>Data File</b>   | b qc 100 2nd.d              |
| <b>Sample Type</b> | QC               | <b>Sample Name</b> | b qc 100 2nd                |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-E2            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response         | ISTD Resp        | Resp Ratio        | Final Conc                               |
|------------------------|---------------------------|------------------|------------------|------------------|-------------------|--|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.888</del> | <del>93730</del> | <del>37922</del> | <del>2.4716</del> | <del>107.9288</del> <i>Not evaluated</i> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.395            | 194002           | 90224            | 2.1502            | 111.7260                                 |
| Naloxone               | Naloxone-D5               | 4.609            | 121947           | 82338            | 1.4810            | 112.1204                                 |
| Noroxycodone           | Noroxycodone-D3           | 4.917            | 125558           | 51465            | 2.4397            | 111.4266                                 |
| Naltrexone             | Naltrexone-D3             | 5.112            | 233788           | 107761           | 2.1695            | 105.8719                                 |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.224            | 79062            | 347644           | 0.2274            | 10.3046                                  |
| Naltrexol              | Naltrexol-D3              | 5.370            | 715492           | 271926           | 2.6312            | 108.1487                                 |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.519            | 1607264          | 706835           | 2.2739            | 103.9022                                 |
| Ketamine               | Ketamine-D4               | 6.301            | 563666           | 223356           | 2.5236            | 105.9685                                 |
| Norfentanyl            | Norfentanyl-D5            | 6.344            | 93828            | 436258           | 0.2151            | 10.0763                                  |
| alpha-PVP              | alpha-PVP-d8              | 6.668            | 707162           | 305499           | 2.3148            | 105.6544                                 |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.981            | 51424            | 286649           | 0.1794            | 9.7658                                   |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.275            | 1170             | 5087             | 0.2300            | 10.4910                                  |
| Fentanyl               | Fentanyl-D5               | 7.319            | 41583            | 180433           | 0.2305            | 10.2424                                  |
| EDDP                   | EDDP-D3                   | 7.410            | 87798            | 44247            | 1.9843            | 92.6439                                  |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 11426            | 48512            | 0.2355            | 9.5028                                   |
| Quetiapine             | Quetiapine-D8             | 7.600            | 1252491          | 152813           | 8.1963            | 113.4155                                 |
| Sufentanil             | Sufentanil-D5             | 7.599            | 26863            | 128809           | 0.2085            | 9.0807                                   |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.633            | 182692           | 75241            | 2.4281            | 106.3987                                 |
| Methadone              | Methadone-D9              | 7.643            | 464555           | 226864           | 2.0477            | 104.9786                                 |
| Fluoxetine             | Fluoxetine-D6             | 7.705            | 488137           | 213421           | 2.2872            | 116.4114                                 |
| Oxazepam               | Oxazepam-D5               | 7.730            | 46610            | 24156            | 1.9295            | 85.0657                                  |
| Sertraline             | Sertraline-D3             | 7.767            | 125065           | 57135            | 2.1889            | 104.7710                                 |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

bQC 100 2nd

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 402991          | 170430           | 2.3646            | 116.5985          |
| Nordiazepam     | Nordiazepam-D5       | 7.856     | 92525           | 24203            | 3.8228            | 111.6137          |
| Diazepam        | Diazepam-D5          | 7.891     | 444635          | 168052           | 2.6458            | 107.7323          |



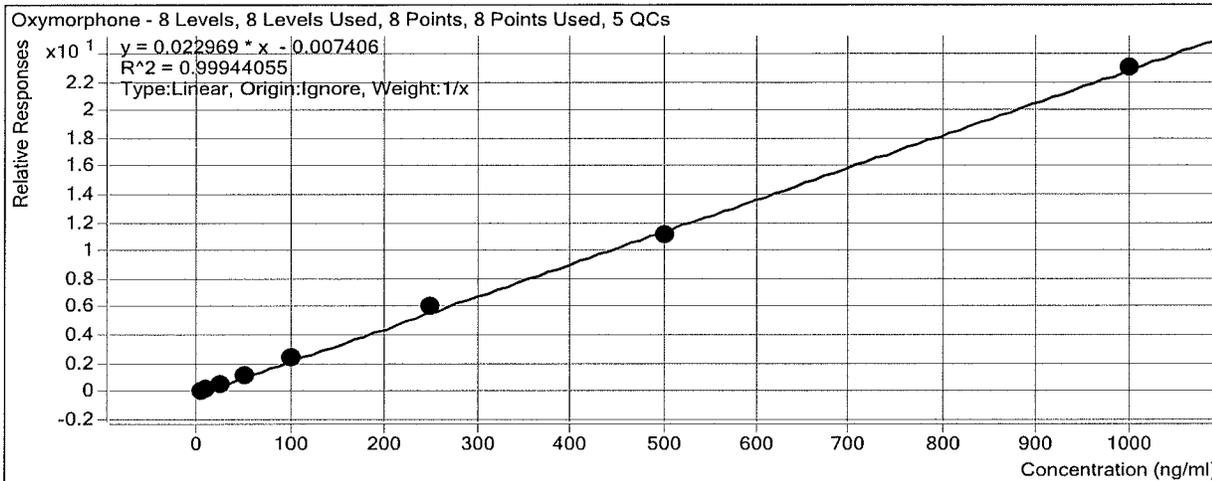
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Oxymorphone  
**Internal Standard** Oxymorphone-D3



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 102.0    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.0     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.1     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.2       | 96.9     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.8       | 99.7     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 102.5      | 102.5    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 107.6      | 107.6    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 107.9      | 107.9    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 261.4      | 104.6    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 271.0      | 108.4    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 486.4      | 97.3     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1000.8     | 100.1    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1032.6     | 103.3    |

Not evaluated in this run  
RT shifts in calibrators and controls  
too great.

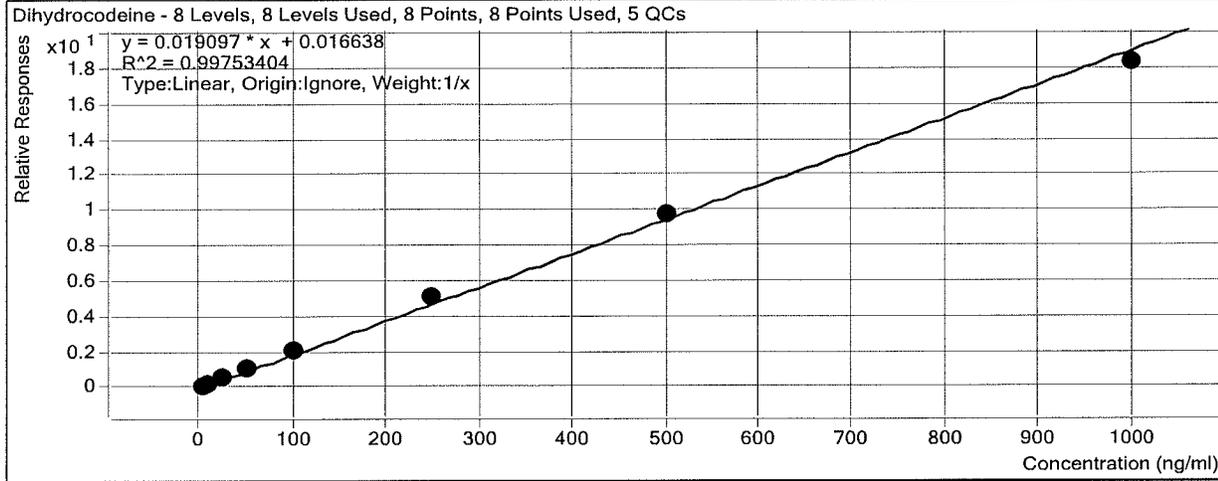
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Dihydrocodeine  
**Internal Standard** Dihydrocodeine-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.4        | 88.5     |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.1        | 90.8     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.5        | 94.8     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.0       | 99.8     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 53.1       | 106.1    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 109.7      | 109.7    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 109.8      | 109.8    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 111.7      | 111.7    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 265.7      | 106.3    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 275.4      | 110.2    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 514.2      | 102.8    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 958.8      | 95.9     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 973.6      | 97.4     |

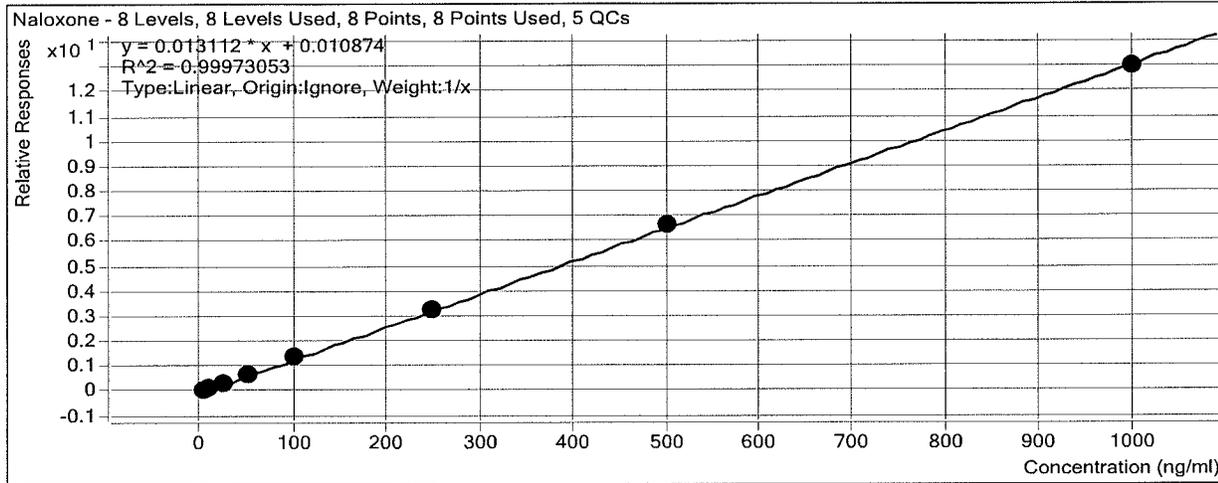
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** *Naloxone*  
**Internal Standard** *Naloxone-D5*



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.0        | 100.8    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.7        | 96.8     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 8.5        | 84.7     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.4       | 97.5     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.8       | 99.6     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 104.8      | 104.8    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 105.9      | 105.9    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 112.1      | 112.1    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 250.7      | 100.3    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 292.3      | 116.9    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 506.7      | 101.3    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 988.8      | 98.9     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1153.3     | 115.3    |

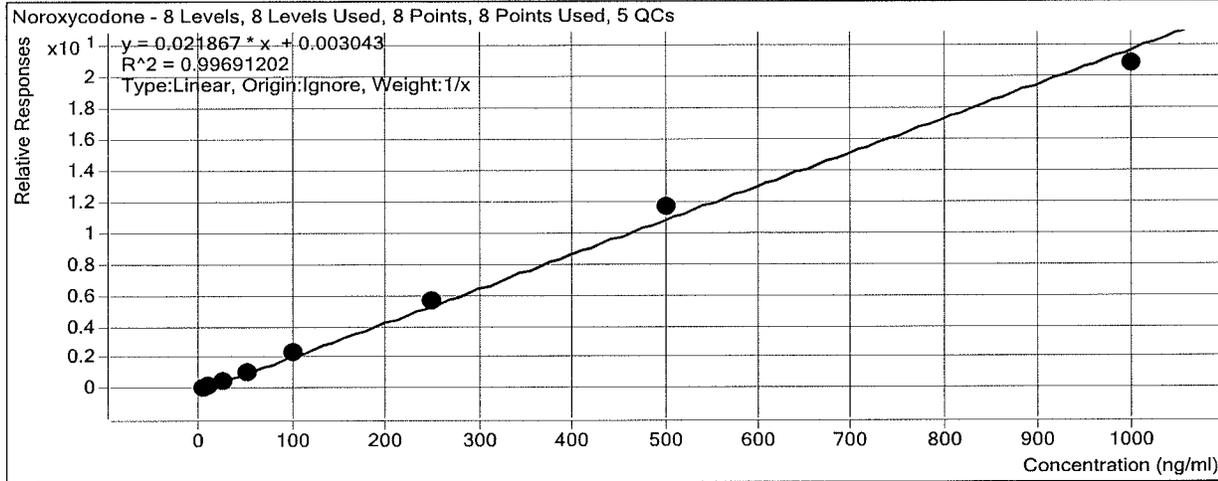
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.0        | 99.5     |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 93.4     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 92.9     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 23.3       | 93.3     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 50.1       | 100.2    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 107.8      | 107.8    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 105.7      | 105.7    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 111.4      | 111.4    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 260.9      | 104.3    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 268.7      | 107.5    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 531.4      | 106.3    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 952.2      | 95.2     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1057.4     | 105.7    |

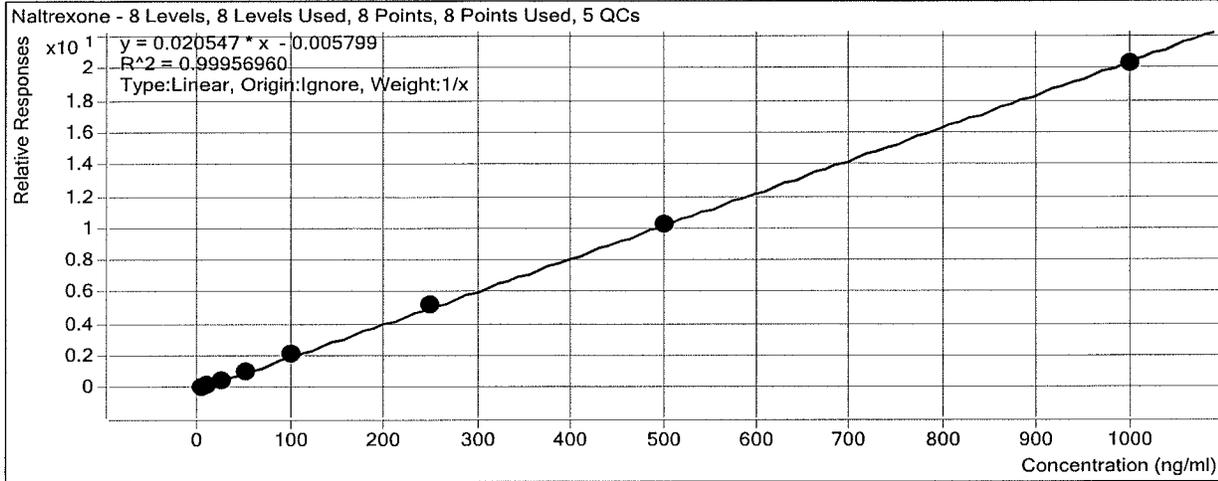
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Naltrexone  
**Internal Standard** Naltrexone-D3



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.0        | 100.3    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 92.8     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.1       | 101.2    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.4       | 97.7     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 50.9       | 101.8    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 106.1      | 106.1    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 106.4      | 106.4    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 105.9      | 105.9    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 255.9      | 102.3    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 272.9      | 109.2    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 501.4      | 100.3    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 987.1      | 98.7     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 988.4      | 98.8     |

# ISP Forensics Calibration Curve Report

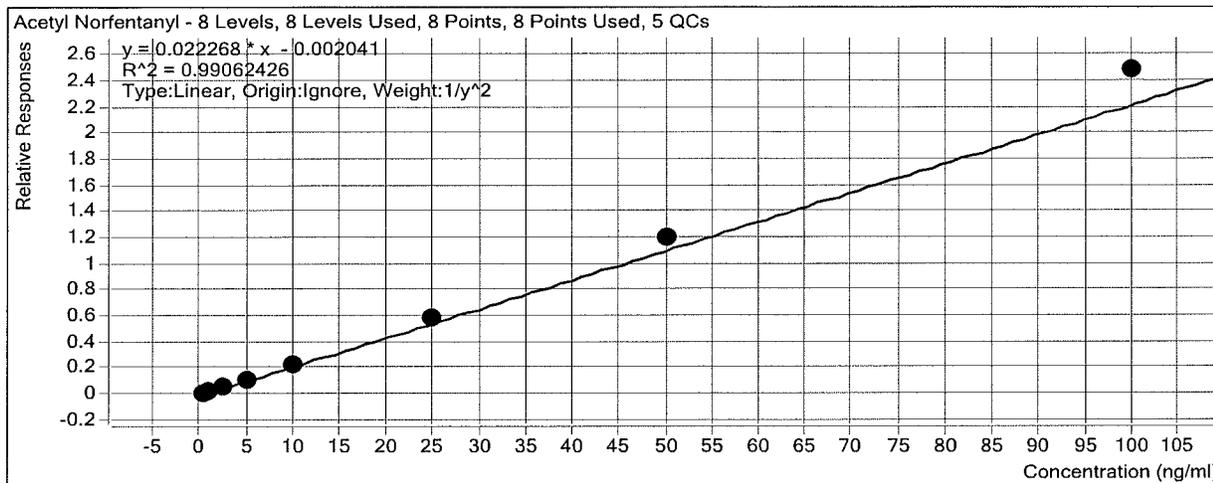
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Acetyl Norfentanyl

**Internal Standard** Acetyl Norfentanyl-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 0.5      | 0.5        | 107.8    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 1        | 0.9        | 90.2     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 1        | 1.0        | 103.0    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.3        | 91.3     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 4.9        | 98.4     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 9.9        | 98.7     |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 10.4       | 103.5    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 10.3       | 103.0    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 26.1       | 104.2    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 27.3       | 109.2    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 53.7       | 107.4    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 100      | 111.3      | 111.3    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 100      | 114.3      | 114.3    |

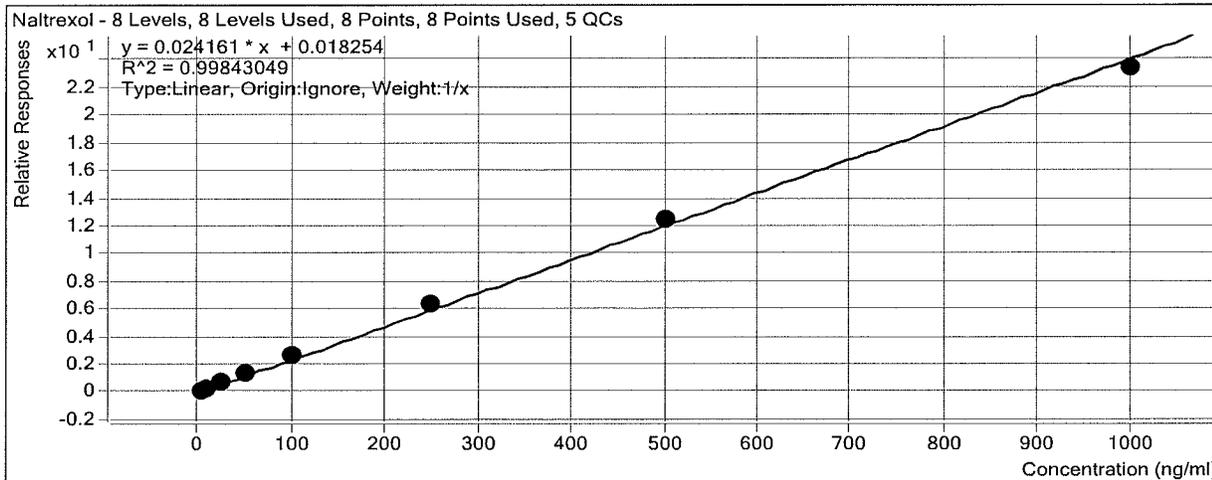
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Naltrexol  
**Internal Standard** Naltrexol-D3



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.4        | 88.3     |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 93.0     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 92.7     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.7       | 102.7    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 52.5       | 105.0    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 107.3      | 107.3    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 108.4      | 108.4    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 108.1      | 108.1    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 260.9      | 104.4    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 266.6      | 106.6    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 513.6      | 102.7    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 966.3      | 96.6     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 976.6      | 97.7     |

# ISP Forensics Calibration Curve Report

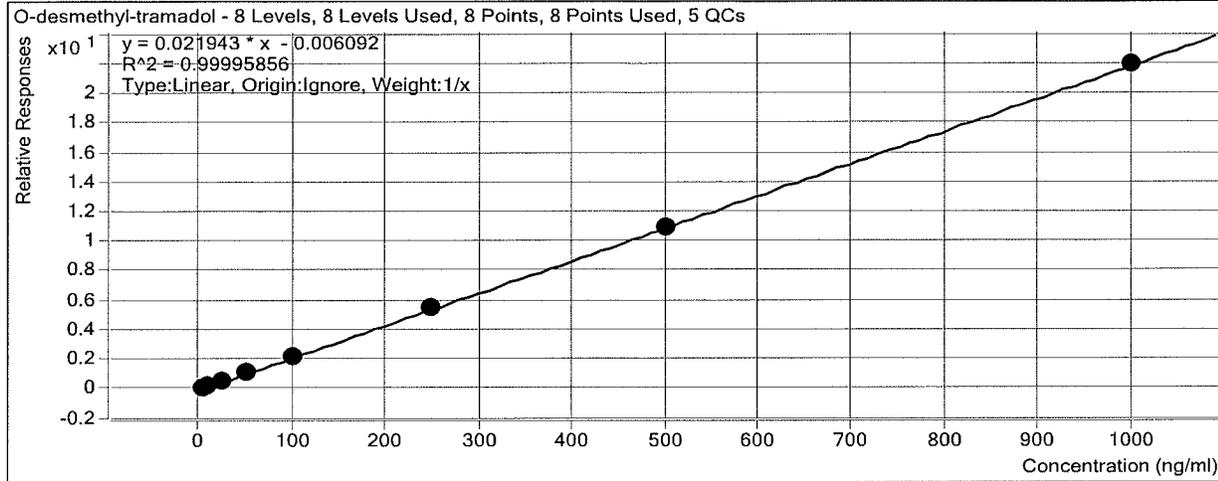
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name**

ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 102.4    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.6        | 96.2     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.3       | 103.3    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.9       | 99.6     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.9       | 99.9     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 102.0      | 102.0    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 102.3      | 102.3    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 103.9      | 103.9    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 251.2      | 100.5    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 254.9      | 101.9    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 497.8      | 99.6     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 999.4      | 99.9     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 990.1      | 99.0     |

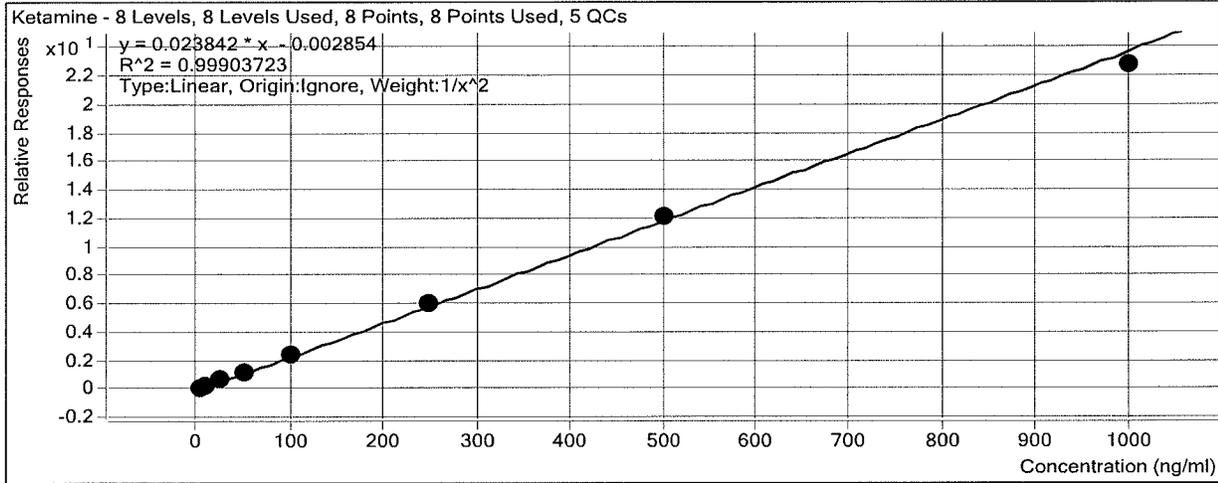
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Ketamine  
**Internal Standard** Ketamine-D4



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 101.2    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.6        | 96.4     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.6        | 96.5     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.5       | 102.0    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 50.4       | 100.8    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 102.9      | 102.9    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 108.4      | 108.4    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 106.0      | 106.0    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 250.5      | 100.2    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 255.0      | 102.0    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 506.3      | 101.3    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 952.9      | 95.3     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 992.6      | 99.3     |

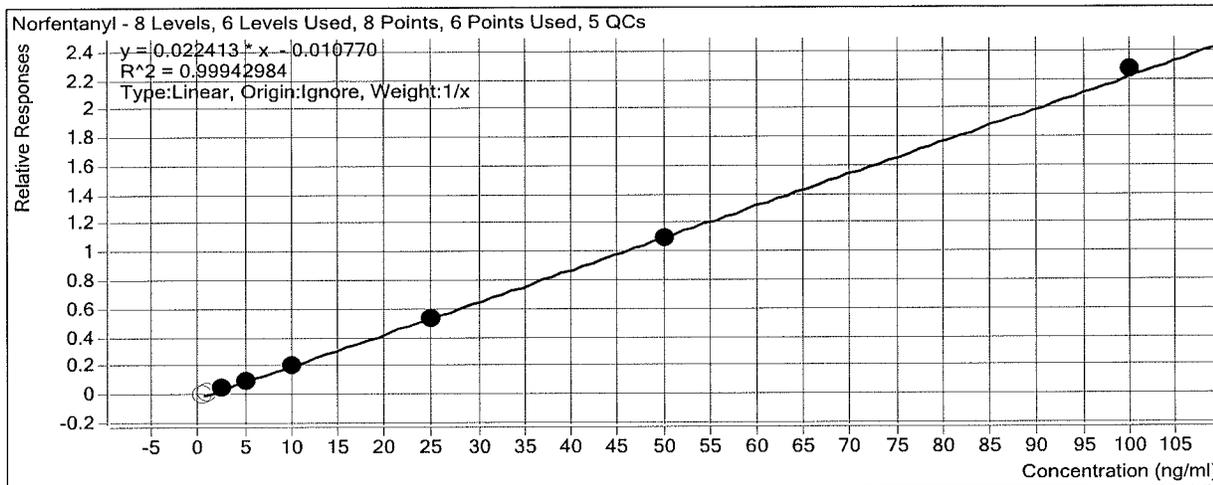
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Norfentanyl  
**Internal Standard** Norfentanyl-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input type="checkbox"/>            | 0.5      | 0.9        | 181.3    |
| b cal 2-10ng   | 2     | <input type="checkbox"/>            | 1        | 1.3        | 131.0    |
| b QC 10        | 2     | <input type="checkbox"/>            | 1        | 1.3        | 133.8    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.7        | 108.0    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 4.9        | 97.8     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.0     |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 9.4        | 94.5     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 10.1       | 100.8    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 24.1       | 96.6     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 26.1       | 104.4    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 49.6       | 99.1     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 100      | 101.5      | 101.5    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 100      | 107.1      | 107.1    |

# ISP Forensics Calibration Curve Report

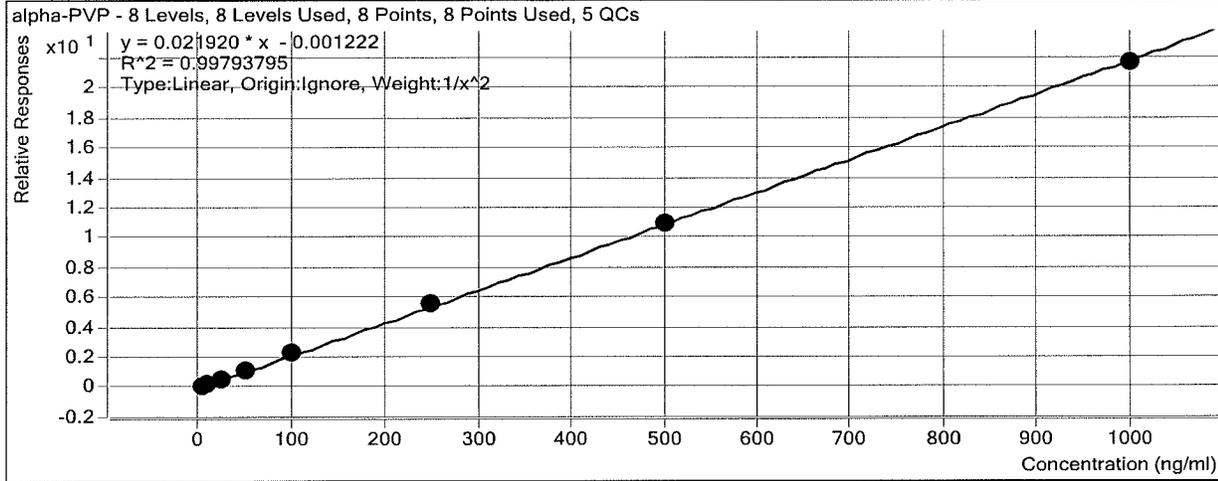
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** *alpha-PVP*

**Internal Standard** *alpha-PVP-d8*



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.2        | 103.2    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.4        | 93.9     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.9        | 99.0     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.7       | 98.6     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 48.9       | 97.8     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 107.3      | 107.3    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 104.7      | 104.7    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 105.7      | 105.7    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 251.5      | 100.6    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 263.1      | 105.2    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 499.9      | 100.0    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 986.6      | 98.7     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1020.4     | 102.0    |

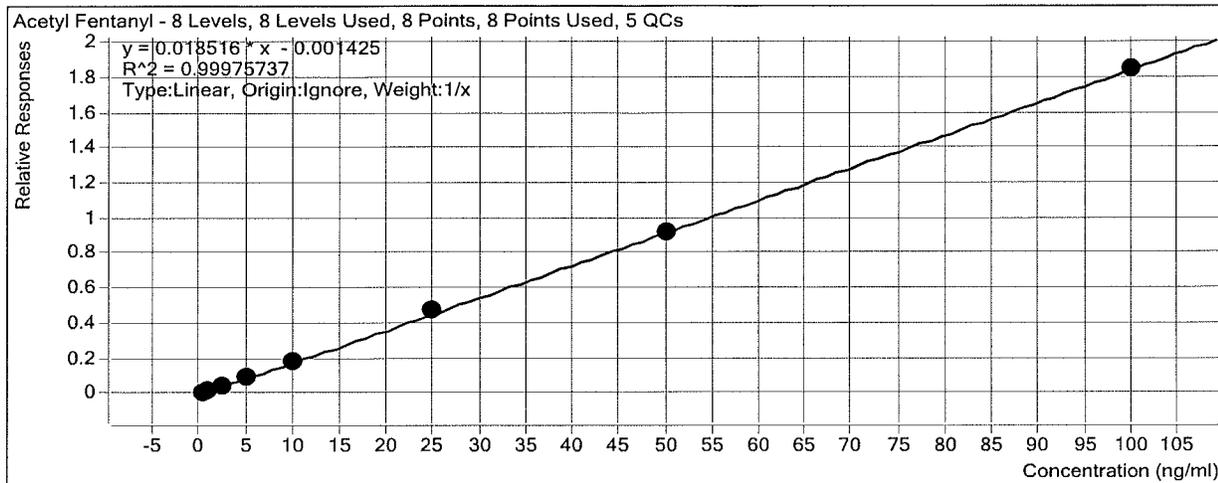
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Acetyl Fentanyl  
**Internal Standard** Acetyl Fentanyl-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 0.5      | 0.6        | 113.1    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 1        | 0.9        | 94.2     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 1        | 1.0        | 102.4    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.3        | 93.2     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 4.8        | 96.7     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 10.1       | 100.8    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 9.9        | 99.0     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 9.8        | 97.7     |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 25.6       | 102.2    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 24.3       | 97.1     |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 50.0       | 100.1    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 100      | 99.7       | 99.7     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 100      | 101.8      | 101.8    |

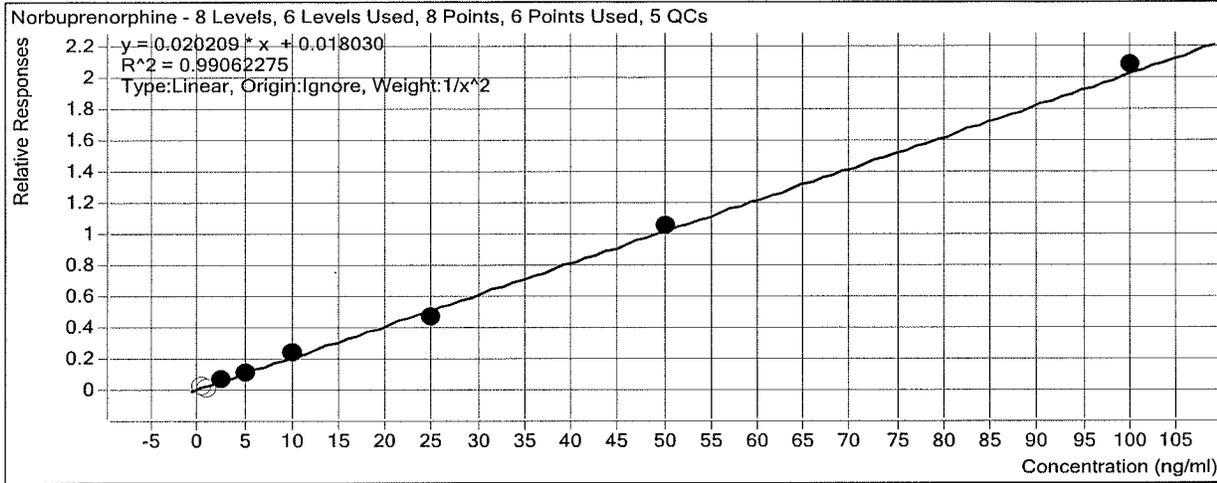
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input type="checkbox"/>            | 0.5      | 0.2        | 37.8     |
| b cal 2-10ng   | 2     | <input type="checkbox"/>            | 1        | 0.0        | 0.0      |
| b QC 10        | 2     | <input type="checkbox"/>            | 1        | 1.5        | 154.1    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.6        | 102.4    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 4.6        | 91.5     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 11.1       | 110.6    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 7.5        | 74.6     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 10.5       | 104.9    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 22.5       | 90.1     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 23.4       | 93.6     |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 51.7       | 103.3    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 100      | 102.1      | 102.1    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 100      | 109.5      | 109.5    |

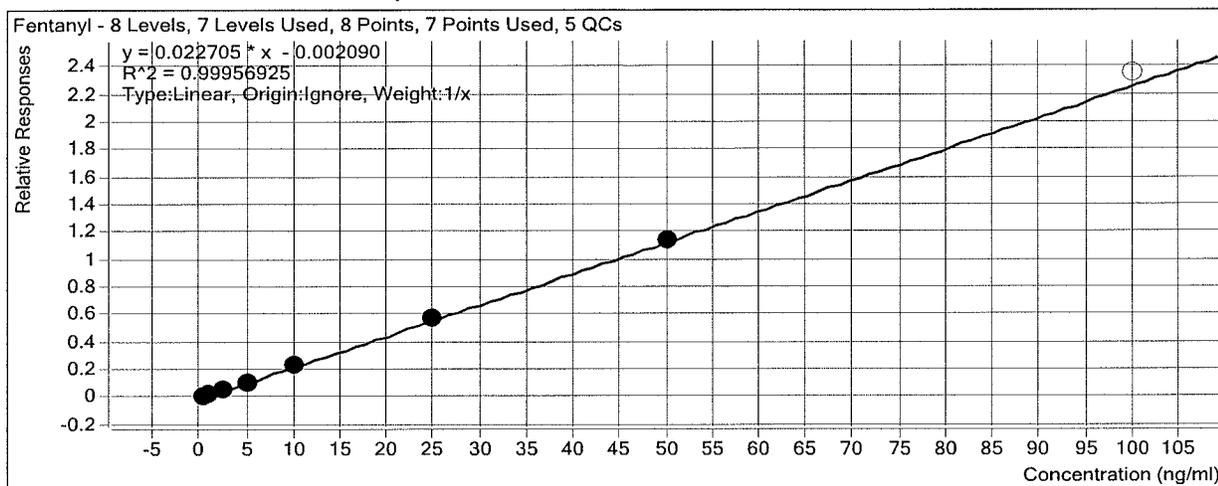
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Fentanyl  
**Internal Standard** Fentanyl-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 0.5      | 0.6        | 112.6    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 1        | 1.0        | 97.2     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 1        | 1.1        | 110.9    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.3        | 93.6     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 4.8        | 95.5     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 10.0       | 99.5     |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.3     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 10.2       | 102.4    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 25.4       | 101.5    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 24.5       | 98.0     |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 50.0       | 100.0    |
| b cal 8-1000ng | 8     | <input type="checkbox"/>            | 100      | 103.6      | 103.6    |
| b qc 1000      | 8     | <input type="checkbox"/>            | 100      | 106.2      | 106.2    |

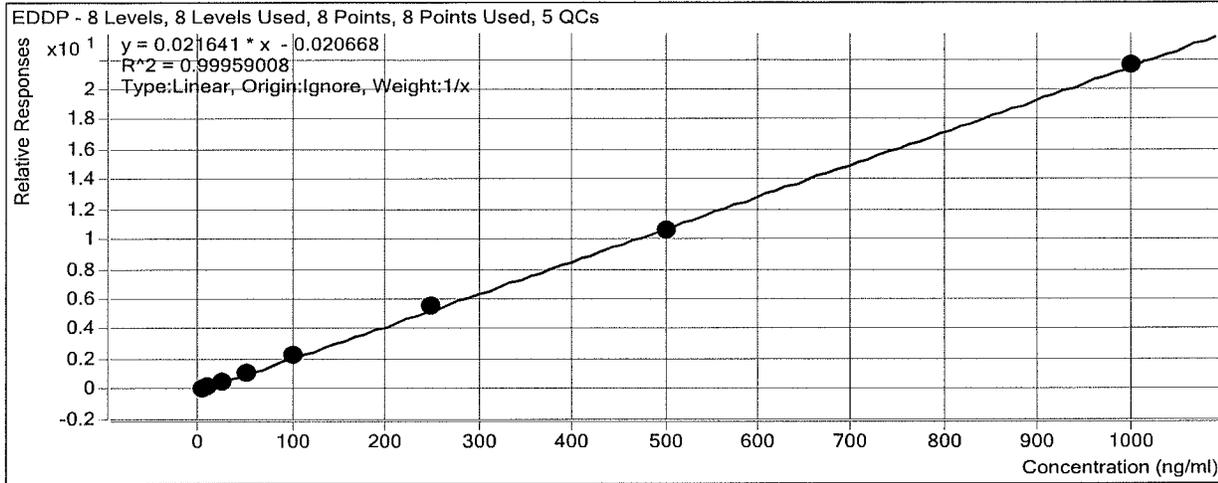
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.5        | 109.0    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.4        | 93.7     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 9.3        | 93.4     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 23.2       | 92.8     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.4       | 98.8     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 104.3      | 104.3    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 92.3       | 92.3     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 92.6       | 92.6     |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 257.4      | 103.0    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 257.1      | 102.9    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 492.9      | 98.6     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 997.9      | 99.8     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 983.6      | 98.4     |

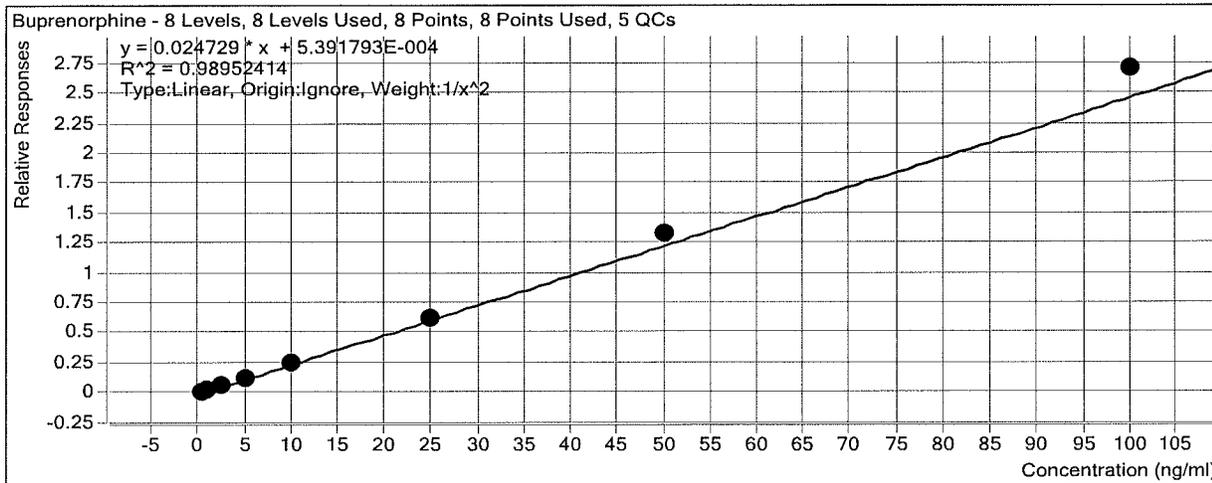
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 0.5      | 0.5        | 109.7    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 1        | 0.8        | 83.0     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 1        | 0.9        | 90.8     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.4        | 96.0     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 4.8        | 95.7     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 9.9        | 99.5     |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 9.8        | 97.6     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 9.5        | 95.0     |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 24.9       | 99.6     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 25.5       | 102.0    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 53.7       | 107.5    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 100      | 109.1      | 109.1    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 100      | 116.9      | 116.9    |

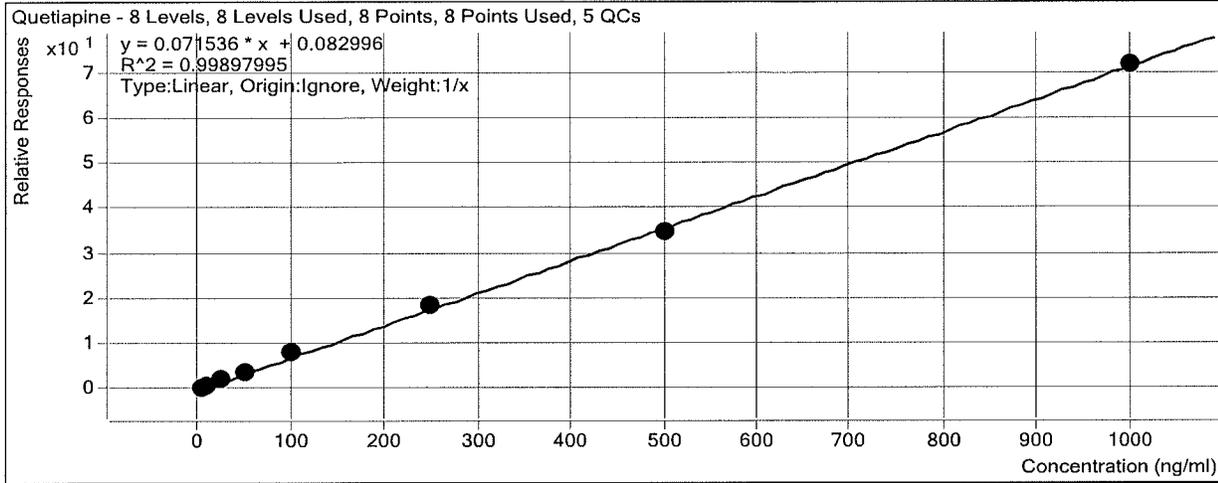
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** *Quetiapine*  
**Internal Standard** *Quetiapine-D8*



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.3        | 86.0     |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.4        | 94.2     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.3       | 103.5    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 27.5       | 110.1    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 51.0       | 102.0    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 108.9      | 108.9    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 110.9      | 110.9    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 113.4      | 113.4    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 255.3      | 102.1    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 281.3      | 112.5    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 484.2      | 96.8     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 999.4      | 99.9     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 995.6      | 99.6     |

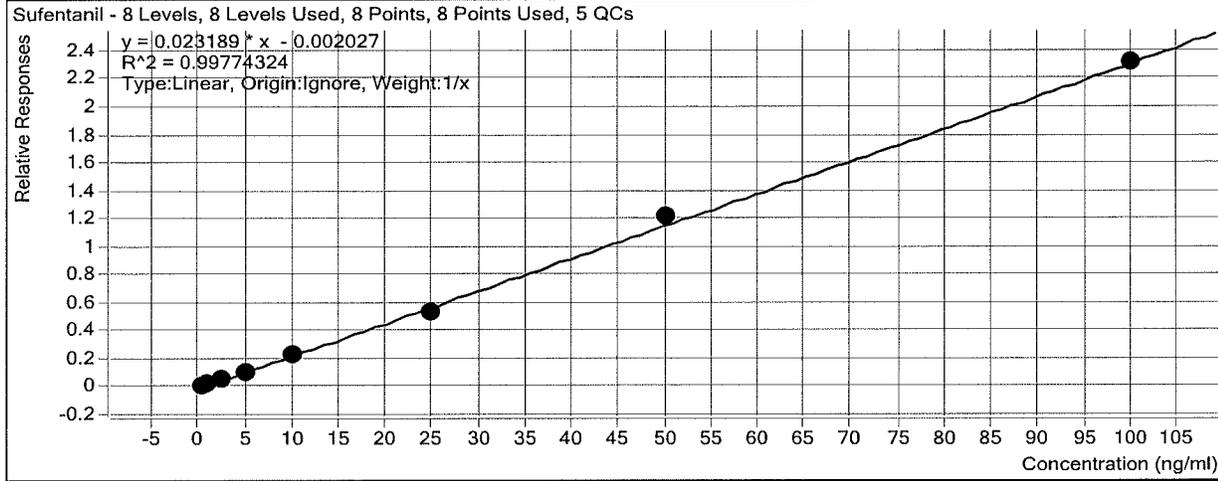
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Sufentanil  
**Internal Standard** Sufentanil-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 0.5      | 0.6        | 120.2    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 1        | 1.1        | 106.9    |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 1        | 1.2        | 119.5    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 2.5      | 2.1        | 84.4     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 5        | 4.4        | 88.3     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 10       | 10.2       | 102.4    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 10       | 9.7        | 97.3     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 10       | 9.1        | 90.8     |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 25       | 23.3       | 93.1     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 25       | 21.9       | 87.7     |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 50       | 52.5       | 104.9    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 100      | 99.8       | 99.8     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 100      | 105.1      | 105.1    |

# ISP Forensics Calibration Curve Report

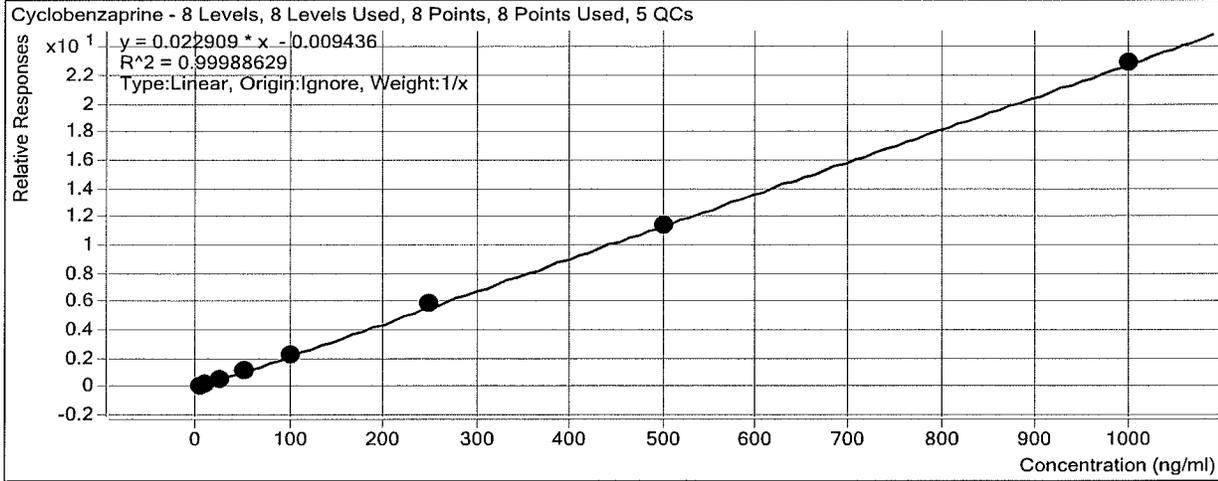
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Cyclobenzaprine

**Internal Standard** Cyclobenzaprine-D3



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.2        | 104.0    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.6        | 95.7     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.1       | 101.2    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.0       | 100.0    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 48.6       | 97.3     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 102.1      | 102.1    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 108.4      | 108.4    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 106.4      | 106.4    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 254.1      | 101.6    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 274.6      | 109.9    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 496.6      | 99.3     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 998.8      | 99.9     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1059.3     | 105.9    |

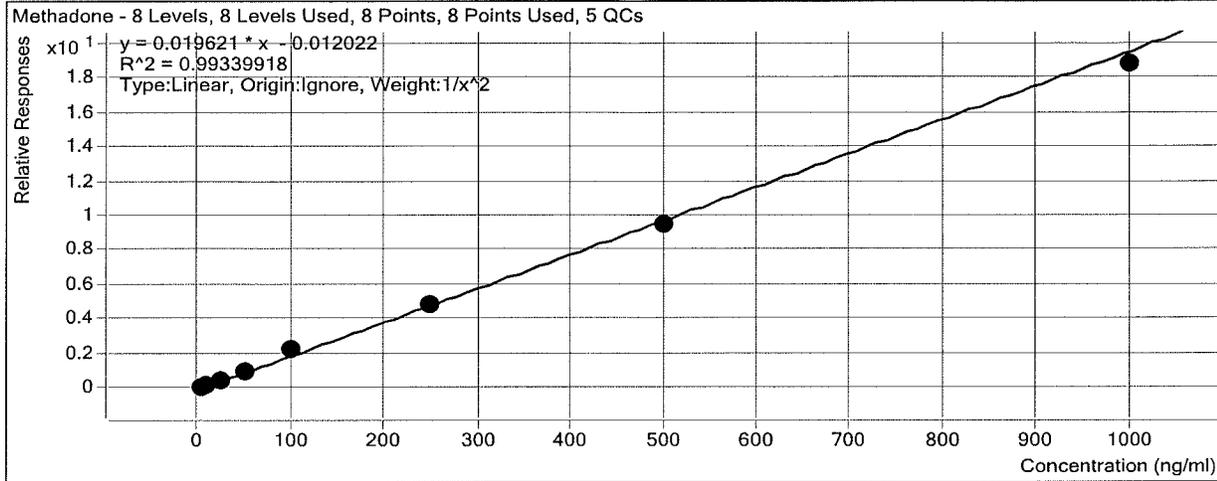
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 102.0    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.6        | 96.2     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.0       | 100.1    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.0       | 96.0     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.8       | 99.6     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 116.7      | 116.7    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 100.4      | 100.4    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 105.0      | 105.0    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 243.7      | 97.5     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 254.3      | 101.7    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 482.1      | 96.4     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 956.0      | 95.6     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 994.3      | 99.4     |

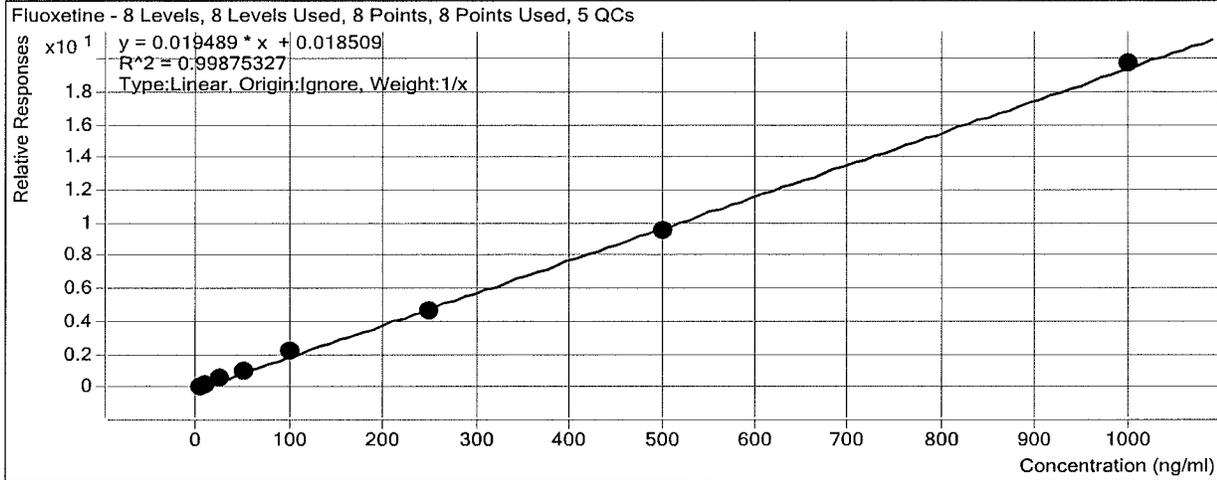
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Fluoxetine  
**Internal Standard** Fluoxetine-D6



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.4        | 88.8     |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.5        | 95.0     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.0       | 99.7     |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 26.0       | 104.1    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 53.7       | 107.4    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 110.2      | 110.2    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 110.0      | 110.0    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 116.4      | 116.4    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 240.9      | 96.3     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 285.1      | 114.0    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 486.5      | 97.3     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1008.8     | 100.9    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1080.2     | 108.0    |

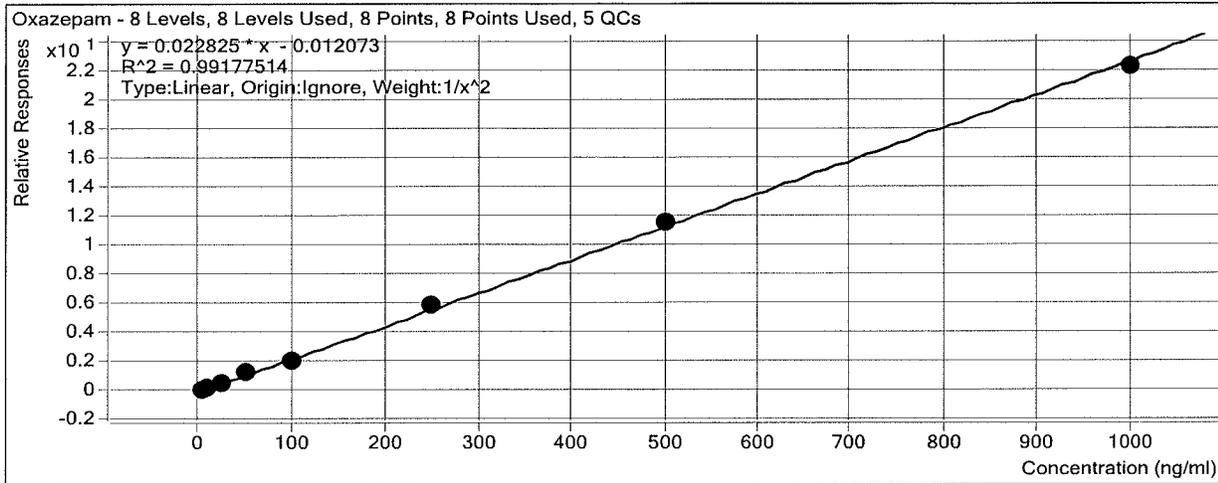
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Oxazepam  
**Internal Standard** Oxazepam-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.3        | 105.1    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 8.8        | 88.0     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.6       | 105.7    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.9       | 99.6     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 56.8       | 113.7    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 91.8       | 91.8     |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 101.0      | 101.0    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 85.1       | 85.1     |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 256.6      | 102.6    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 241.0      | 96.4     |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 507.7      | 101.5    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 976.4      | 97.6     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1019.7     | 102.0    |

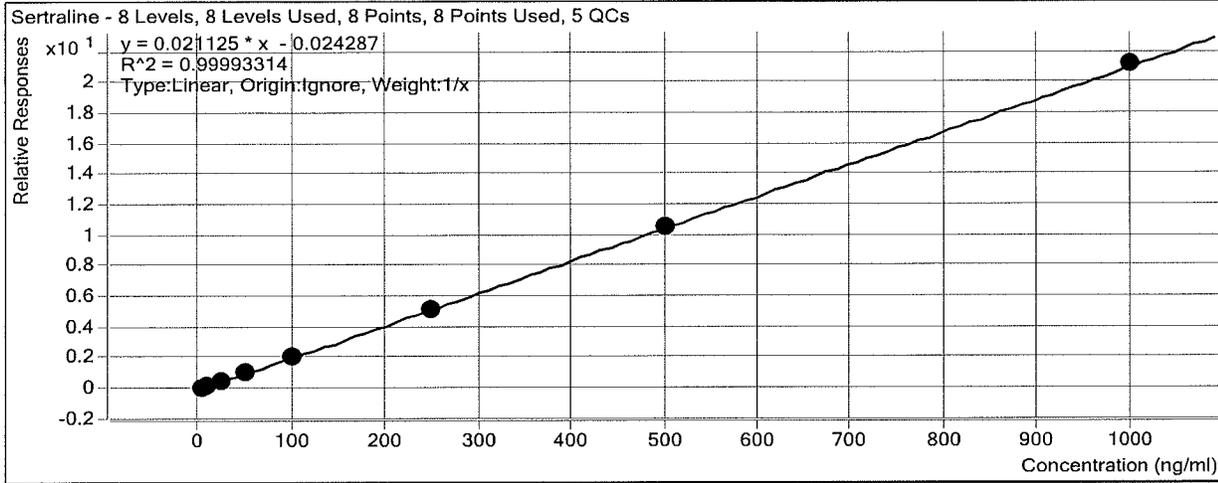
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** *Sertraline*  
**Internal Standard** *Sertraline-D3*



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.1        | 102.4    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.9        | 99.1     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 11.6       | 116.5    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.3       | 101.2    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 49.1       | 98.2     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 100.4      | 100.4    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 99.0       | 99.0     |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 104.8      | 104.8    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 245.6      | 98.2     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 261.2      | 104.5    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 500.9      | 100.2    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1003.7     | 100.4    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1007.1     | 100.7    |

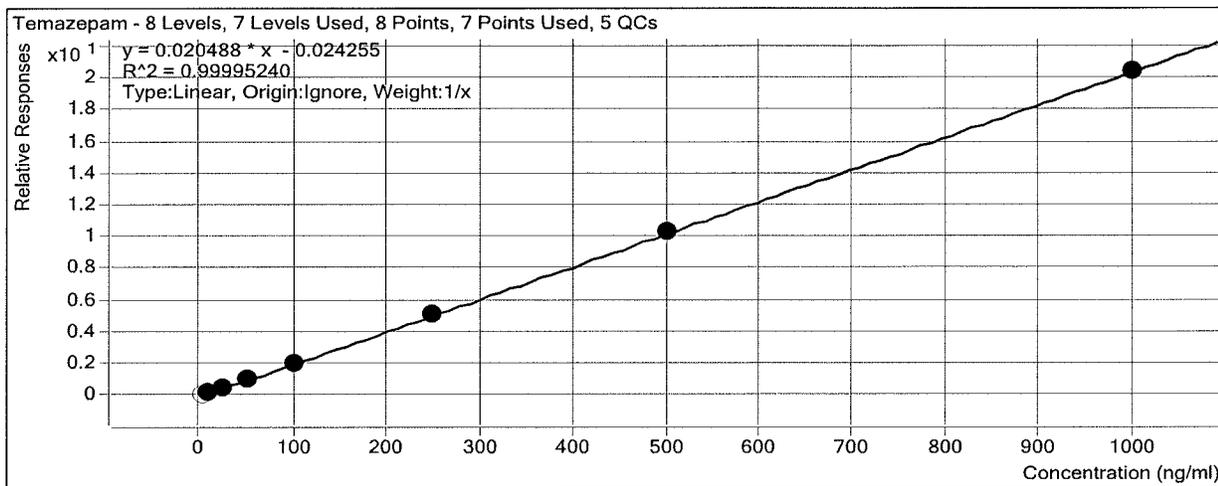
# ISP Forensics Calibration Curve Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

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



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input type="checkbox"/>            | 5        | 5.5        | 110.8    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 10.1       | 101.3    |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 11.1       | 110.9    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.5       | 97.9     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 50.5       | 101.0    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 99.0       | 99.0     |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 109.5      | 109.5    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 116.6      | 116.6    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 251.5      | 100.6    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 255.5      | 102.2    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 503.5      | 100.7    |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 995.9      | 99.6     |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1026.3     | 102.6    |

# ISP Forensics Calibration Curve Report

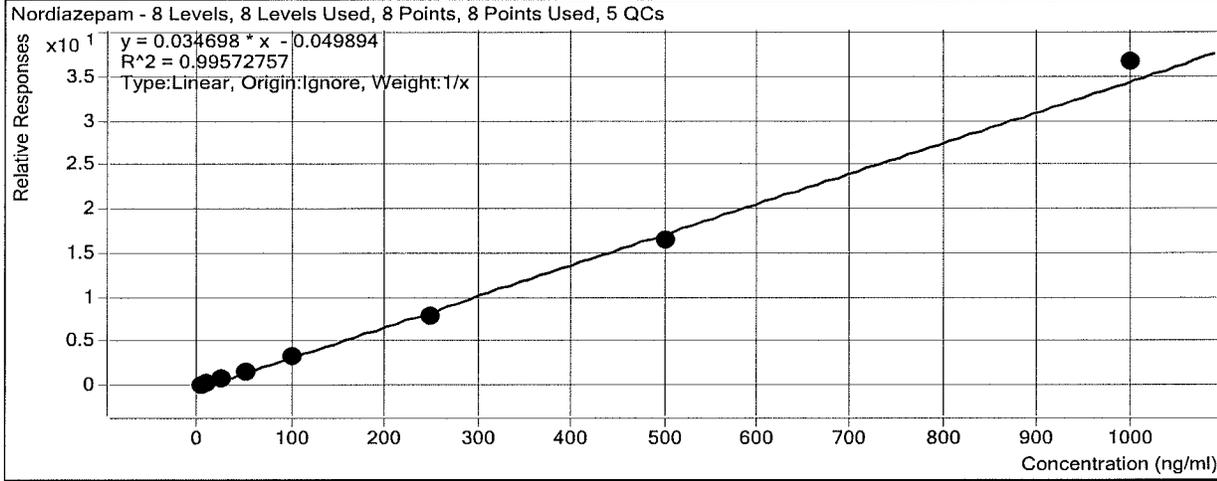
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** Nordiazepam

**Internal Standard** Nordiazepam-D5



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 5.8        | 115.5    |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 10.7       | 107.2    |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 12.3       | 122.9    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 25.6       | 102.5    |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 43.4       | 86.7     |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 96.2       | 96.2     |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 113.3      | 113.3    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 111.6      | 111.6    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 228.8      | 91.5     |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 267.7      | 107.1    |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 473.3      | 94.7     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1056.2     | 105.6    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 1044.4     | 104.4    |

# ISP Forensics Calibration Curve Report

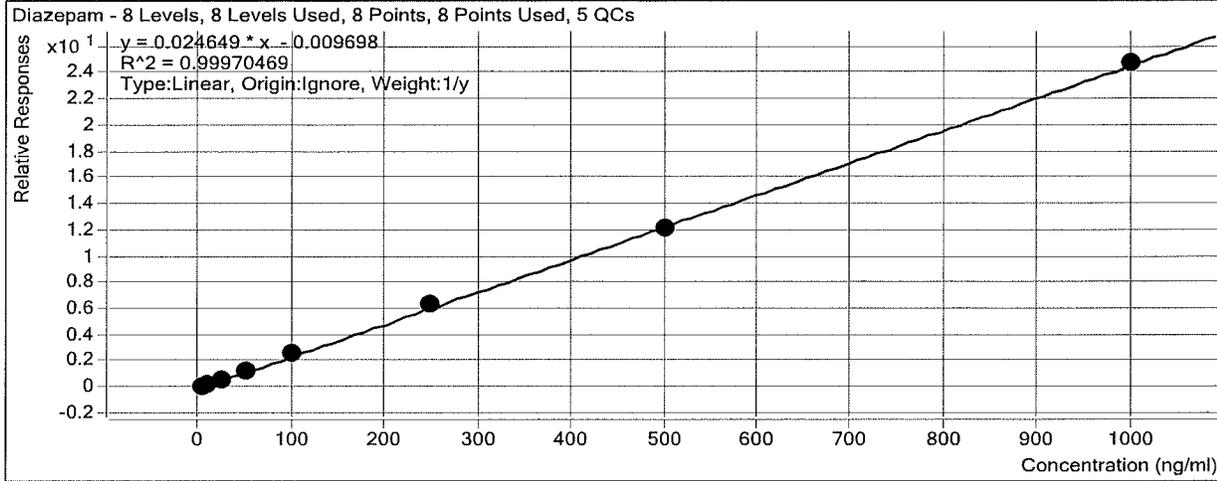
**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin

**Last Calib Update** 7/25/2017 1:07 PM

**Analyst Name** ISP TOX

**Target Compound** *Diazepam*

**Internal Standard** *Diazepam-D5*



| Sample         | Level | Enabled                             | Exp Conc | Final Conc | Accuracy |
|----------------|-------|-------------------------------------|----------|------------|----------|
| b cal 1-5ng    | 1     | <input checked="" type="checkbox"/> | 5        | 4.9        | 98.3     |
| b cal 2-10ng   | 2     | <input checked="" type="checkbox"/> | 10       | 9.6        | 96.3     |
| b QC 10        | 2     | <input checked="" type="checkbox"/> | 10       | 10.3       | 103.2    |
| b cal 3-25ng   | 3     | <input checked="" type="checkbox"/> | 25       | 24.9       | 99.8     |
| b cal 4-50ng   | 4     | <input checked="" type="checkbox"/> | 50       | 51.0       | 102.0    |
| b cal 5-100ng  | 5     | <input checked="" type="checkbox"/> | 100      | 104.3      | 104.3    |
| b qc 100       | 5     | <input checked="" type="checkbox"/> | 100      | 104.8      | 104.8    |
| b qc 100 2nd   | 5     | <input checked="" type="checkbox"/> | 100      | 107.7      | 107.7    |
| b cal 6-250ng  | 6     | <input checked="" type="checkbox"/> | 250      | 255.0      | 102.0    |
| b QC 250       | 6     | <input checked="" type="checkbox"/> | 250      | 243.0      | 97.2     |
| b cal 7-500ng  | 7     | <input checked="" type="checkbox"/> | 500      | 489.9      | 98.0     |
| b cal 8-1000ng | 8     | <input checked="" type="checkbox"/> | 1000     | 1000.9     | 100.1    |
| b qc 1000      | 8     | <input checked="" type="checkbox"/> | 1000     | 989.7      | 99.0     |

# ISP FORENSICS - Cd'A Instrument # 62340

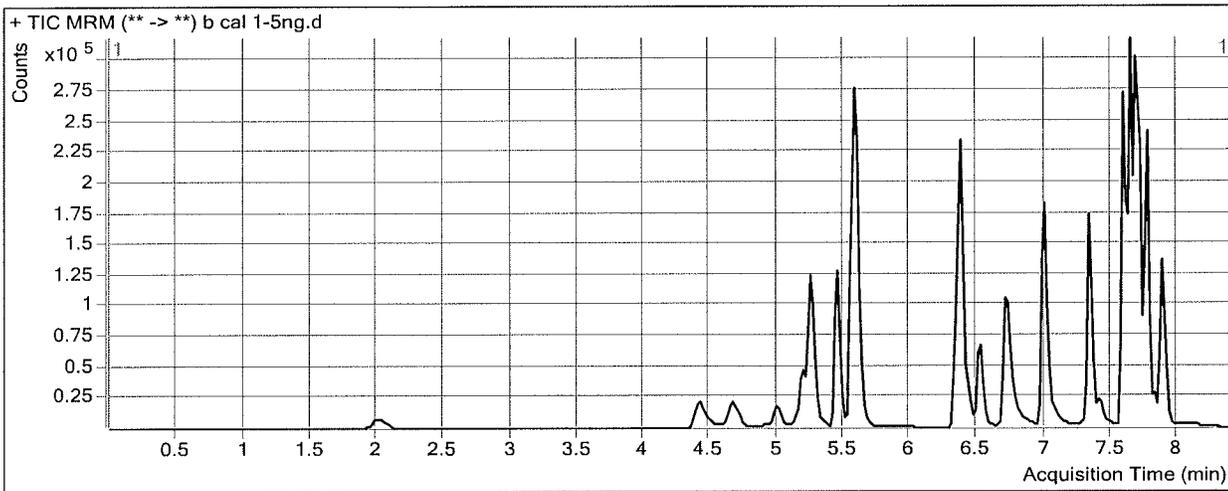
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-24 17:43 | <b>Data File</b>   | b cal 1-5ng.d               |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | b cal 1-5ng                 |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-A1            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound                    | ISTD Compound                  | RT               | Response        | ISTD Resp         | Resp Ratio        | Final Conc   |
|-----------------------------|--------------------------------|------------------|-----------------|-------------------|-------------------|--|
| <del>Oxymorphone</del>      | <del>Oxymorphone-D3</del>      | <del>2.029</del> | <del>5437</del> | <del>49549</del>  | <del>0.1097</del> | <del>5.0993</del> <i>Not evaluated</i>               |
| Dihydrocodeine              | Dihydrocodeine-D6              | 4.477            | 11671           | 115341            | 0.1012            | 4.4274   |
| Naloxone                    | Naloxone-D5                    | 4.713            | 8155            | 105978            | 0.0770            | 5.0394   |
| Noroxycodone                | Noroxycodone-D3                | 5.037            | 8211            | 73427             | 0.1118            | 4.9744   |
| Naltrexone                  | Naltrexone-D3                  | 5.192            | 14926           | 153435            | 0.0973            | 5.0167   |
| Acetyl Norfentanyl          | Acetyl Norfentanyl-D5          | 5.324            | 4619            | 463577            | 0.0100            | 0.5391   |
| Naltrexol                   | Naltrexol-D3                   | 5.451            | 44370           | 355147            | 0.1249            | 4.4155   |
| O-desmethyl-tramadol        | O-desmethyl-tramadol-D6        | 5.598            | 91543           | 861562            | 0.1063            | 5.1197   |
| Ketamine                    | Ketamine-D4                    | 6.361            | 34679           | 294510            | 0.1178            | 5.0586   |
| <del>Norfentanyl</del>      | <del>Norfentanyl-D5</del>      | <del>6.404</del> | <del>5433</del> | <del>569238</del> | <del>0.0095</del> | <del>0.9064</del> <i>Not evaluated at this level</i> |
| alpha-PVP                   | alpha-PVP-d8                   | 6.729            | 50150           | 448317            | 0.1119            | 5.1588   |
| Acetyl Fentanyl             | Acetyl Fentanyl-D5             | 7.001            | 5457            | 603314            | 0.0090            | 0.5654   |
| <del>Norbuprenorphine</del> | <del>Norbuprenorphine-D3</del> | <del>7.315</del> | <del>267</del>  | <del>12225</del>  | <del>0.0219</del> | <del>0.1891</del> <i>Not evaluated at this level</i> |
| Fentanyl                    | Fentanyl-D5                    | 7.339            | 4886            | 456857            | 0.0107            | 0.5631   |
| EDDP                        | EDDP-D3                        | 7.431            | 4655            | 47831             | 0.0973            | 5.4523   |
| Buprenorphine               | Buprenorphine-D4               | 7.777            | 1316            | 93370             | 0.0141            | 0.5483   |
| Quetiapine                  | Quetiapine-D8                  | 7.600            | 85138           | 217985            | 0.3906            | 4.2995   |
| Sufentanil                  | Sufentanil-D5                  | 7.579            | 3981            | 334353            | 0.0119            | 0.6008   |
| Cyclobenzaprine             | Cyclobenzaprine-D3             | 7.633            | 23034           | 209955            | 0.1097            | 5.2006   |
| Methadone                   | Methadone-D9                   | 7.643            | 44998           | 510956            | 0.0881            | 5.1011   |
| Fluoxetine                  | Fluoxetine-D6                  | 7.705            | 58439           | 556229            | 0.1051            | 4.4413   |
| Oxazepam                    | Oxazepam-D5                    | 7.730            | 3585            | 33247             | 0.1078            | 5.2526   |
| Sertraline                  | Sertraline-D3                  | 7.767            | 14052           | 167607            | 0.0838            | 5.1185   |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

*b cal 1*

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 22931           | 257076           | 0.0892            | 5.5376            |
| Nordiazepam     | Nordiazepam-D5       | 7.856     | 5234            | 34770            | 0.1505            | 5.7763            |
| Diazepam        | Diazepam-D5          | 7.891     | 26860           | 241058           | 0.1114            | 4.9139            |



# ISP FORENSICS - Cd'A Instrument # 62340

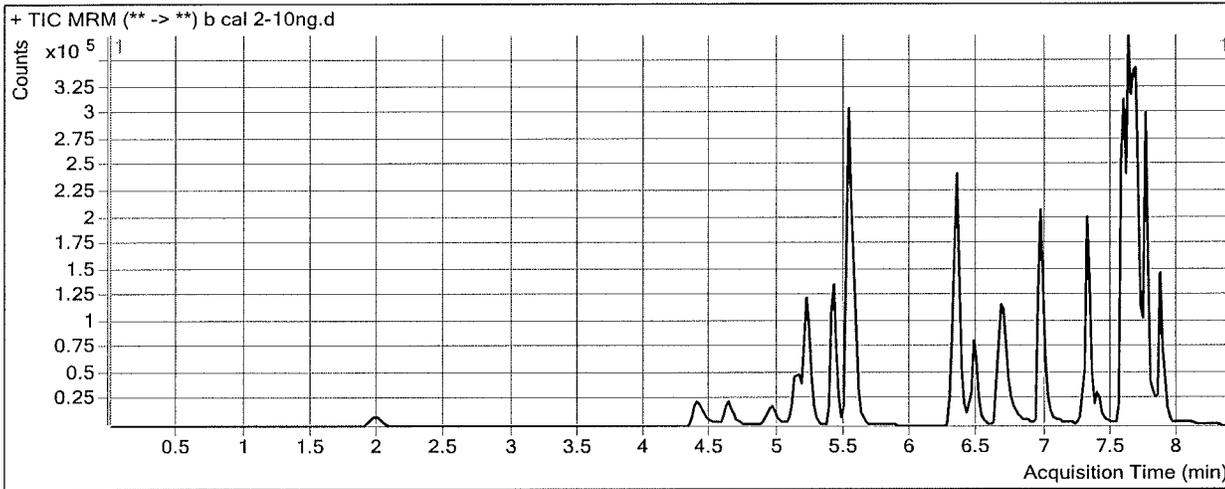
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-24 18:08 | <b>Data File</b>   | b cal 2-10ng.d              |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | b cal 2-10ng                |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-B1            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound                    | ISTD Compound                  | RT               | Response         | ISTD Resp         | Resp Ratio        | Final Conc                             |
|-----------------------------|--------------------------------|------------------|------------------|-------------------|-------------------|--|
| <del>Oxymorphone</del>      | <del>Oxymorphone-D3</del>      | <del>1.989</del> | <del>10195</del> | <del>47357</del>  | <del>0.2153</del> | <del>9.6954</del> <i>not evaluated</i> |
| Dihydrocodeine              | Dihydrocodeine-D6              | 4.437            | 20834            | 109687            | 0.1899            | 9.0751 <i>*</i>                        |
| Naloxone                    | Naloxone-D5                    | 4.669            | 14507            | 105273            | 0.1378            | 9.6802                                 |
| Noroxycodone                | Noroxycodone-D3                | 4.977            | 14081            | 67936             | 0.2073            | 9.3393                                 |
| Naltrexone                  | Naltrexone-D3                  | 5.152            | 27761            | 150185            | 0.1848            | 9.2787                                 |
| Acetyl Norfentanyl          | Acetyl Norfentanyl-D5          | 5.264            | 7848             | 434861            | 0.0180            | 0.9021                                 |
| Naltrexol                   | Naltrexol-D3                   | 5.410            | 81832            | 336974            | 0.2428            | 9.2957                                 |
| O-desmethyl-tramadol        | O-desmethyl-tramadol-D6        | 5.539            | 170858           | 833781            | 0.2049            | 9.6161                                 |
| Ketamine                    | Ketamine-D4                    | 6.321            | 63513            | 279727            | 0.2271            | 9.6431                                 |
| <del>Norfentanyl</del>      | <del>Norfentanyl-D5</del>      | <del>6.364</del> | <del>10231</del> | <del>550153</del> | <del>0.0186</del> | <del>1.3102</del> <i>not evaluated</i> |
| alpha-PVP                   | alpha-PVP-d8                   | 6.688            | 94219            | 460441            | 0.2046            | 9.3908                                 |
| Acetyl Fentanyl             | Acetyl Fentanyl-D5             | 6.981            | 10847            | 676881            | 0.0160            | 0.9424                                 |
| <del>Norbuprenorphine</del> | <del>Norbuprenorphine-D3</del> | <del>7.255</del> | <del>240</del>   | <del>13950</del>  | <del>0.0172</del> | <del>0.0000</del> <i>Not evaluated</i> |
| Fentanyl                    | Fentanyl-D5                    | 7.319            | 10213            | 511428            | 0.0200            | 0.9716                                 |
| EDDP                        | EDDP-D3                        | 7.390            | 10592            | 58185             | 0.1820            | 9.3668                                 |
| Buprenorphine               | Buprenorphine-D4               | 7.797            | 2390             | 113499            | 0.0211            | 0.8297                                 |
| Quetiapine                  | Quetiapine-D8                  | 7.580            | 159858           | 211305            | 0.7565            | 9.4153                                 |
| Sufentanil                  | Sufentanil-D5                  | 7.579            | 9035             | 397092            | 0.0228            | 1.0685                                 |
| Cyclobenzaprine             | Cyclobenzaprine-D3             | 7.613            | 51820            | 246893            | 0.2099            | 9.5736                                 |
| Methadone                   | Methadone-D9                   | 7.643            | 104538           | 591673            | 0.1767            | 9.6176                                 |
| Fluoxetine                  | Fluoxetine-D6                  | 7.685            | 132967           | 652803            | 0.2037            | 9.5018                                 |
| Oxazepam                    | Oxazepam-D5                    | 7.710            | 6014             | 31841             | 0.1889            | 8.8034                                 |
| Sertraline                  | Sertraline-D3                  | 7.746            | 34120            | 184322            | 0.1851            | 9.9125                                 |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.748     | 43949           | 239886           | 0.1832            | 10.1263           |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 10515           | 32643            | 0.3221            | 10.7221           |
| Diazepam        | Diazepam-D5          | 7.871     | 48815           | 214347           | 0.2277            | 9.6326            |



# ISP FORENSICS - Cd'A Instrument # 62340

## Multi-Drug Confirmatory Analysis Report

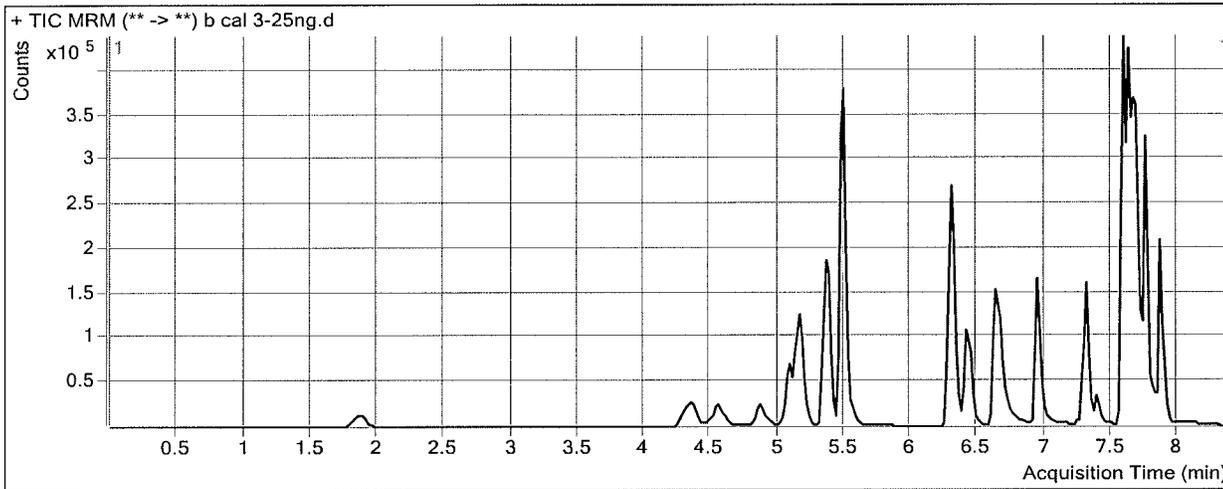
*b cal 2*

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-24 18:34 | <b>Data File</b>   | b cal 3-25ng.d              |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | b cal 3-25ng                |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-C1            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response         | ISTD Resp        | Resp Ratio        | Final Conc         |
|------------------------|---------------------------|------------------|------------------|------------------|-------------------|--------------------|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.888</del> | <del>25542</del> | <del>46507</del> | <del>0.5492</del> | <del>24.2332</del> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.375            | 53004            | 107481           | 0.4931            | 24.9523            |
| Naloxone               | Naloxone-D5               | 4.589            | 34810            | 105378           | 0.3303            | 24.3631            |
| Noroxycodone           | Noroxycodone-D3           | 4.897            | 35030            | 68256            | 0.5132            | 23.3300            |
| Naltrexone             | Naltrexone-D3             | 5.092            | 71805            | 144826           | 0.4958            | 24.4129            |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.204            | 21306            | 436848           | 0.0488            | 2.2819             |
| Naltrexol              | Naltrexol-D3              | 5.370            | 219891           | 344424           | 0.6384            | 25.6689            |
|                        |                           |                  |                  |                  |                   |                    |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.499            | 466272           | 863068           | 0.5402            | 24.8977            |
| Ketamine               | Ketamine-D4               | 6.281            | 163645           | 270478           | 0.6050            | 25.4963            |
| Norfentanyl            | Norfentanyl-D5            | 6.324            | 27026            | 543127           | 0.0498            | 2.7006             |
| alpha-PVP              | alpha-PVP-d8              | 6.648            | 218555           | 405340           | 0.5392            | 24.6533            |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.962            | 21156            | 507350           | 0.0417            | 2.3291             |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.235            | 677              | 9704             | 0.0698            | 2.5593             |
| Fentanyl               | Fentanyl-D5               | 7.299            | 21151            | 414202           | 0.0511            | 2.3411             |
| EDDP                   | EDDP-D3                   | 7.390            | 24402            | 50663            | 0.4817            | 23.2114            |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 5795             | 96800            | 0.0599            | 2.3992             |
| Quetiapine             | Quetiapine-D8             | 7.580            | 379597           | 185008           | 2.0518            | 27.5218            |
| Sufentanil             | Sufentanil-D5             | 7.579            | 14749            | 314466           | 0.0469            | 2.1100             |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.613            | 103607           | 183910           | 0.5634            | 25.0025            |
| Methadone              | Methadone-D9              | 7.643            | 219626           | 478510           | 0.4590            | 24.0054            |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 284104           | 540455           | 0.5257            | 26.0238            |
| Oxazepam               | Oxazepam-D5               | 7.710            | 13967            | 25113            | 0.5562            | 24.8960            |
| Sertraline             | Sertraline-D3             | 7.746            | 73223            | 143598           | 0.5099            | 25.2883            |

*Not evaluated*  
★

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

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b cal 2

| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.748     | 111756          | 234249           | 0.4771            | 24.4703           |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 26379           | 31416            | 0.8397            | 25.6373           |
| Diazepam        | Diazepam-D5          | 7.871     | 130577          | 215793           | 0.6051            | 24.9419           |

# ISP FORENSICS - Cd'A Instrument # 62340

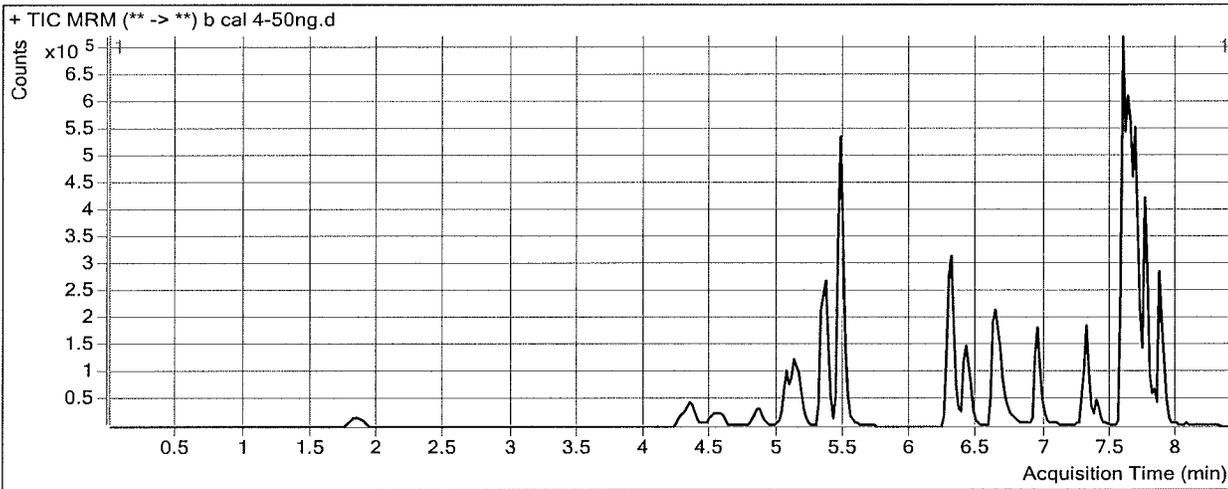
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin  
**Analysis Time** 7/25/2017 1:07 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:01 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 1:07 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 18:59 **Data File** b cal 4-50ng.d  
**Sample Type** Calibration **Sample Name** b cal 4-50ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 11-18-2016.m  
**Position** P1-D1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

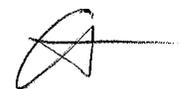
| Compound               | ISTD Compound             | RT               | Response         | ISTD Resp        | Resp Ratio        | Final Conc                              |
|------------------------|---------------------------|------------------|------------------|------------------|-------------------|---|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.848</del> | <del>52615</del> | <del>46257</del> | <del>1.1374</del> | <del>49.8427</del> <i>Not evaluated</i> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.355            | 109852           | 106635           | 1.0302            | 53.0737                                 |
| Naloxone               | Naloxone-D5               | 4.569            | 67665            | 101907           | 0.6640            | 49.8089                                 |
| Noroxycodone           | Noroxycodone-D3           | 4.878            | 72400            | 65924            | 1.0982            | 50.0833                                 |
| Naltrexone             | Naltrexone-D3             | 5.071            | 143119           | 137601           | 1.0401            | 50.9038                                 |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.184            | 45051            | 418897           | 0.1075            | 4.9213                                  |
| Naltrexol              | Naltrexol-D3              | 5.350            | 425149           | 330290           | 1.2872            | 52.5210                                 |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.479            | 931175           | 854517           | 1.0897            | 49.9374                                 |
| Ketamine               | Ketamine-D4               | 6.281            | 322506           | 269072           | 1.1986            | 50.3923                                 |
| Norfentanyl            | Norfentanyl-D5            | 6.324            | 52902            | 535491           | 0.0988            | 4.8882                                  |
| alpha-PVP              | alpha-PVP-d8              | 6.648            | 440116           | 411111           | 1.0706            | 48.8937                                 |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.942            | 47991            | 544527           | 0.0881            | 4.8368                                  |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.255            | 1284             | 11624            | 0.1105            | 4.5743                                  |
| Fentanyl               | Fentanyl-D5               | 7.299            | 48018            | 451616           | 0.1063            | 4.7750                                  |
| EDDP                   | EDDP-D3                   | 7.390            | 54795            | 52264            | 1.0484            | 49.4007                                 |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 12567            | 105779           | 0.1188            | 4.7826                                  |
| Quetiapine             | Quetiapine-D8             | 7.580            | 725667           | 194493           | 3.7311            | 50.9966                                 |
| Sufentanil             | Sufentanil-D5             | 7.579            | 33114            | 329955           | 0.1004            | 4.4151                                  |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.613            | 213575           | 193323           | 1.1048            | 48.6346                                 |
| Methadone              | Methadone-D9              | 7.644            | 452986           | 469368           | 0.9651            | 49.8005                                 |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 585194           | 549597           | 1.0648            | 53.6857                                 |
| Oxazepam               | Oxazepam-D5               | 7.710            | 33035            | 25705            | 1.2852            | 56.8349                                 |
| Sertraline             | Sertraline-D3             | 7.746            | 146822           | 144954           | 1.0129            | 49.0981                                 |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b cal 4

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.748     | 219392          | 217140           | 1.0104            | 50.5003           |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 47408           | 32586            | 1.4549            | 43.3685           |
| Diazepam        | Diazepam-D5          | 7.871     | 261026          | 209257           | 1.2474            | 50.9994           |



# ISP FORENSICS - Cd'A Instrument # 62340

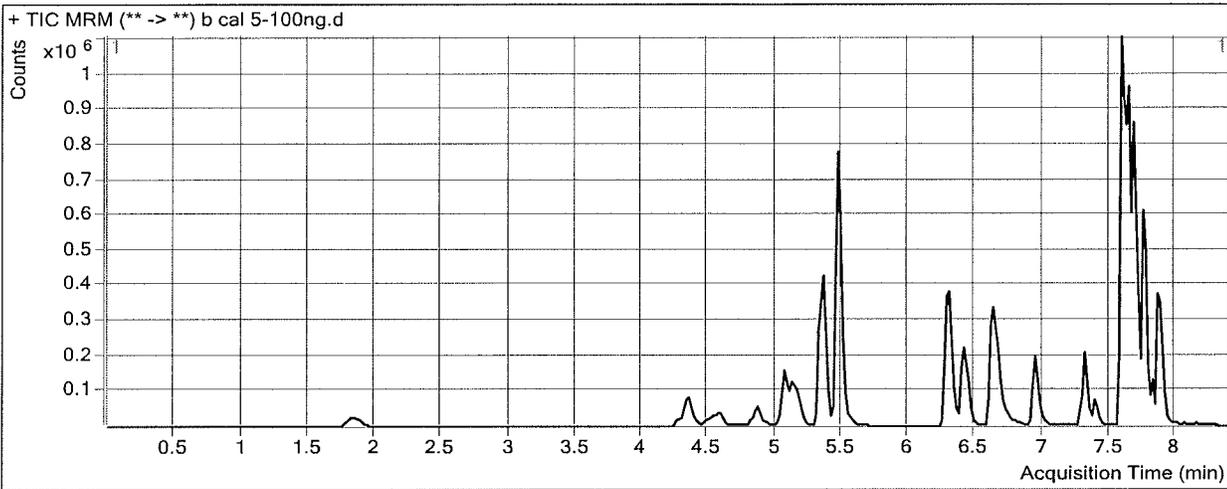
## Multi-Drug Confirmatory Analysis Report

|                          |  |                      |           |
|--------------------------|--|----------------------|-----------|
| <b>Batch Data Path</b>   | C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin |                      |           |
| <b>Analysis Time</b>     | 7/25/2017 1:07 PM  | <b>Analyst Name</b>  | anord     |
| <b>Report Time</b>       | 7/25/2017 2:01 PM  | <b>Reporter Name</b> | ISP Tox   |
| <b>Last Calib Update</b> | 7/25/2017 1:07 PM  | <b>Batch State</b>   | Processed |

### Analysis Info

|                    |                  |                    |                             |
|--------------------|------------------|--------------------|-----------------------------|
| <b>Acq Time</b>    | 2017-07-24 19:25 | <b>Data File</b>   | b cal 5-100ng.d             |
| <b>Sample Type</b> | Calibration      | <b>Sample Name</b> | b cal 5-100ng               |
| <b>Dilution</b>    | 1                | <b>Acq Method</b>  | Quant Panel 1b 11-18-2016.m |
| <b>Position</b>    | P1-E1            | <b>Sample Info</b> |                             |
| <b>Inj Vol</b>     | -1               | <b>Comment</b>     | AM 28                       |

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response          | ISTD Resp        | Resp Ratio        | Final Conc          |
|------------------------|---------------------------|------------------|-------------------|------------------|-------------------|---------------------|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.848</del> | <del>102726</del> | <del>43764</del> | <del>2.3473</del> | <del>102.5153</del> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.355            | 213522            | 101096           | 2.1121            | 109.7272            |
| Naloxone               | Naloxone-D5               | 4.569            | 130263            | 94034            | 1.3853            | 104.8165            |
| Noroxycodone           | Noroxycodone-D3           | 4.878            | 138099            | 58516            | 2.3600            | 107.7848            |
| Naltrexone             | Naltrexone-D3             | 5.071            | 268654            | 123573           | 2.1740            | 106.0929            |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.204            | 86336             | 396553           | 0.2177            | 9.8688              |
| Naltrexol              | Naltrexol-D3              | 5.350            | 795649            | 304772           | 2.6106            | 107.2977            |
|                        |                           |                  |                   |                  |                   |                     |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.479            | 1796275           | 804889           | 2.2317            | 101.9799            |
| Ketamine               | Ketamine-D4               | 6.281            | 617798            | 252140           | 2.4502            | 102.8898            |
| Norfentanyl            | Norfentanyl-D5            | 6.324            | 100117            | 484537           | 0.2066            | 9.6993              |
| alpha-PVP              | alpha-PVP-d8              | 6.648            | 872889            | 371436           | 2.3500            | 107.2631            |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.942            | 96588             | 521261           | 0.1853            | 10.0844             |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.235            | 2604              | 10780            | 0.2416            | 11.0613             |
| Fentanyl               | Fentanyl-D5               | 7.299            | 96212             | 429739           | 0.2239            | 9.9528              |
| EDDP                   | EDDP-D3                   | 7.390            | 110768            | 49529            | 2.2364            | 104.2952            |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 23167             | 93958            | 0.2466            | 9.9490              |
| Quetiapine             | Quetiapine-D8             | 7.580            | 1378586           | 175147           | 7.8710            | 108.8690            |
| Sufentanil             | Sufentanil-D5             | 7.579            | 66439             | 282182           | 0.2354            | 10.2407             |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.613            | 414615            | 177896           | 2.3307            | 102.1451            |
| Methadone              | Methadone-D9              | 7.643            | 850845            | 373706           | 2.2768            | 116.6526            |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 1097571           | 506862           | 2.1654            | 110.1625            |
| Oxazepam               | Oxazepam-D5               | 7.710            | 62777             | 30122            | 2.0841            | 91.8369             |
| Sertraline             | Sertraline-D3             | 7.746            | 259199            | 123667           | 2.0959            | 100.3685            |

*Not evaluated*

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b cal 5

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 462742          | 231013           | 2.0031            | 98.9556           |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 104707          | 31859            | 3.2866            | 96.1592           |
| Diazepam        | Diazepam-D5          | 7.891     | 481275          | 187848           | 2.5621            | 104.3341          |



# ISP FORENSICS - Cd'A Instrument # 62340

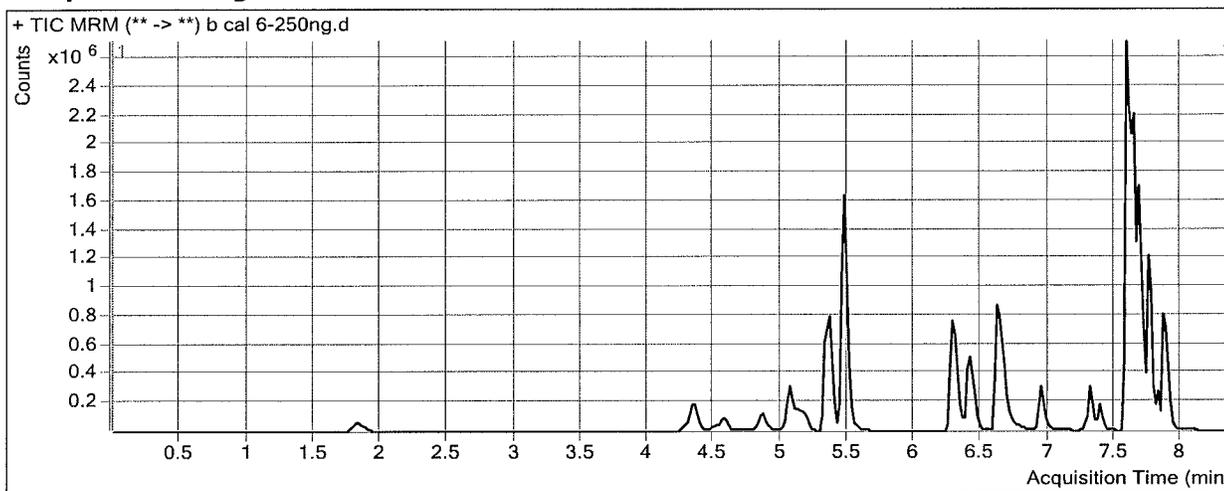
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin  
**Analysis Time** 7/25/2017 1:07 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:01 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 1:07 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 19:50 **Data File** b cal 6-250ng.d  
**Sample Type** Calibration **Sample Name** b cal 6-250ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 11-18-2016.m  
**Position** P1-F1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound             | ISTD Compound           | RT    | Response | ISTD Resp | Resp Ratio | Final Conc |
|----------------------|-------------------------|-------|----------|-----------|------------|------------|
| Oxymorphone          | Oxymorphone-D3          | 1.848 | 264477   | 44100     | 5.9972     | 261.4195   |
| Dihydrocodeine       | Dihydrocodeine-D6       | 4.335 | 536821   | 105434    | 5.0915     | 265.7476   |
| Naloxone             | Naloxone-D5             | 4.569 | 319945   | 96992     | 3.2987     | 250.7380   |
| Noroxycodone         | Noroxycodone-D3         | 4.878 | 344036   | 60277     | 5.7076     | 260.8705   |
| Naltrexone           | Naltrexone-D3           | 5.071 | 590948   | 112531    | 5.2514     | 255.8678   |
| Acetyl Norfentanyl   | Acetyl Norfentanyl-D5   | 5.184 | 230785   | 399060    | 0.5783     | 26.0625    |
| Naltrexol            | Naltrexol-D3            | 5.350 | 1835395  | 290306    | 6.3223     | 260.9203   |
| O-desmethyl-tramadol | O-desmethyl-tramadol-D6 | 5.479 | 4622293  | 839348    | 5.5070     | 251.2405   |
| Ketamine             | Ketamine-D4             | 6.281 | 1595287  | 267245    | 5.9694     | 250.4948   |
| Norfentanyl          | Norfentanyl-D5          | 6.324 | 275399   | 519121    | 0.5305     | 24.1499    |
| alpha-PVP            | alpha-PVP-d8            | 6.628 | 2460224  | 446287    | 5.5126     | 251.5393   |
| Acetyl Fentanyl      | Acetyl Fentanyl-D5      | 6.942 | 273066   | 578926    | 0.4717     | 25.5510    |
| Norbuprenorphine     | Norbuprenorphine-D3     | 7.255 | 5657     | 11949     | 0.4734     | 22.5343    |
| Fentanyl             | Fentanyl-D5             | 7.299 | 255549   | 445148    | 0.5741     | 25.3765    |
| EDDP                 | EDDP-D3                 | 7.390 | 320269   | 57703     | 5.5503     | 257.4232   |
| Buprenorphine        | Buprenorphine-D4        | 7.817 | 59816    | 97023     | 0.6165     | 24.9095    |
| Quetiapine           | Quetiapine-D8           | 7.580 | 3695131  | 201390    | 18.3481    | 255.3286   |
| Sufentanil           | Sufentanil-D5           | 7.579 | 176364   | 327908    | 0.5378     | 23.2811    |
| Cyclobenzaprine      | Cyclobenzaprine-D3      | 7.613 | 1050104  | 180693    | 5.8115     | 254.0861   |
| Methadone            | Methadone-D9            | 7.643 | 2306390  | 483488    | 4.7703     | 243.7400   |
| Fluoxetine           | Fluoxetine-D6           | 7.685 | 2364103  | 501661    | 4.7126     | 240.8608   |
| Oxazepam             | Oxazepam-D5             | 7.710 | 153960   | 26341     | 5.8450     | 256.6097   |
| Sertraline           | Sertraline-D3           | 7.746 | 600472   | 116295    | 5.1633     | 245.5738   |

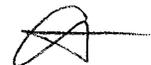
*not Evaluated*

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b cal 6

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 1093938         | 213297           | 5.1287            | 251.5176          |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 240591          | 30497            | 7.8891            | 228.8068          |
| Diazepam        | Diazepam-D5          | 7.871     | 1144188         | 182326           | 6.2755            | 254.9867          |



# ISP FORENSICS - Cd'A Instrument # 62340

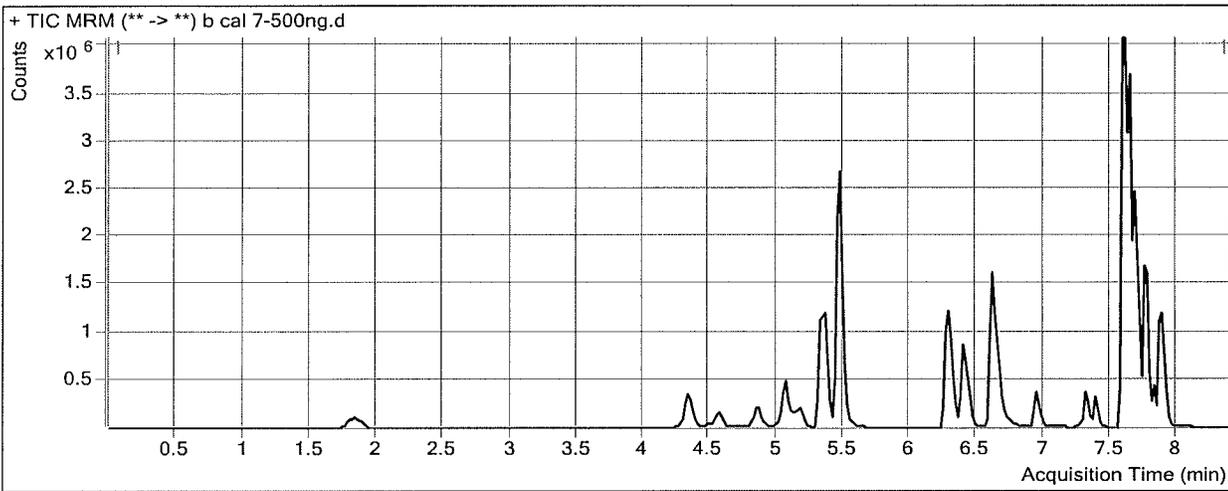
## Multi-Drug Confirmatory Analysis Report

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**Analysis Time** 7/25/2017 1:07 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:01 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 1:07 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 20:15 **Data File** b cal 7-500ng.d  
**Sample Type** Calibration **Sample Name** b cal 7-500ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 11-18-2016.m  
**Position** P1-G1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response          | ISTD Resp        | Resp Ratio         | Final Conc          |
|------------------------|---------------------------|------------------|-------------------|------------------|--------------------|---------------------|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.848</del> | <del>488679</del> | <del>43770</del> | <del>11.1647</del> | <del>486.3963</del> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.335            | 970583            | 98679            | 9.8357             | 514.1775            |
| Naloxone               | Naloxone-D5               | 4.569            | 582584            | 87536            | 6.6554             | 506.7301            |
| Noroxycodone           | Noroxycodone-D3           | 4.878            | 618392            | 53205            | 11.6228            | 531.3734            |
| Naltrexone             | Naltrexone-D3             | 5.071            | 991091            | 96264            | 10.2955            | 501.3637            |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.184            | 439095            | 367760           | 1.1940             | 53.7097             |
| Naltrexol              | Naltrexol-D3              | 5.350            | 3132399           | 252047           | 12.4279            | 513.6276            |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.479            | 8476640           | 776408           | 10.9178            | 497.8172            |
| Ketamine               | Ketamine-D4               | 6.281            | 3003357           | 248886           | 12.0672            | 506.2560            |
| Norfentanyl            | Norfentanyl-D5            | 6.324            | 511843            | 465328           | 1.1000             | 49.5566             |
| alpha-PVP              | alpha-PVP-d8              | 6.628            | 4361048           | 398025           | 10.9567            | 499.8951            |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.942            | 456827            | 493855           | 0.9250             | 50.0352             |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.255            | 10397             | 9790             | 1.0621             | 51.6615             |
| Fentanyl               | Fentanyl-D5               | 7.299            | 405553            | 357758           | 1.1336             | 50.0199             |
| EDDP                   | EDDP-D3                   | 7.390            | 587268            | 55161            | 10.6464            | 492.9053            |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 100345            | 75479            | 1.3294             | 53.7392             |
| Quetiapine             | Quetiapine-D8             | 7.580            | 6392864           | 184130           | 34.7192            | 484.1810            |
| Sufentanil             | Sufentanil-D5             | 7.579            | 298250            | 245541           | 1.2147             | 52.4679             |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.613            | 1701643           | 149704           | 11.3667            | 496.5698            |
| Methadone              | Methadone-D9              | 7.644            | 3802986           | 402523           | 9.4479             | 482.1398            |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 3590417           | 377946           | 9.4998             | 486.5047            |
| Oxazepam               | Oxazepam-D5               | 7.710            | 280586            | 24239            | 11.5760            | 507.6980            |
| Sertraline             | Sertraline-D3             | 7.746            | 996612            | 94396            | 10.5577            | 500.9356            |

*not evaluated \**

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b cal 7

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 1880273         | 182708           | 10.2911           | 503.4966          |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 402940          | 24610            | 16.3731           | 473.3203          |
| Diazepam        | Diazepam-D5          | 7.891     | 1879002         | 155743           | 12.0648           | 489.8524          |



# ISP FORENSICS - Cd'A Instrument # 62340

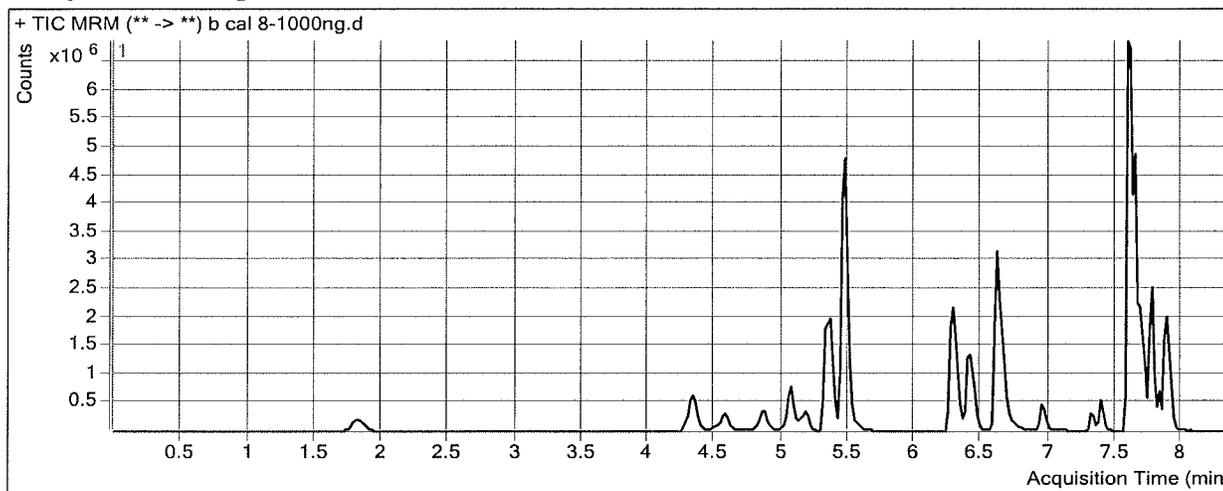
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** C:\MyFiles\anord\Documents\blood data\72417 mdq\QuantResults\72417 mdq p1b.batch.bin  
**Analysis Time** 7/25/2017 1:07 PM **Analyst Name** anord  
**Report Time** 7/25/2017 2:01 PM **Reporter Name** ISP Tox  
**Last Calib Update** 7/25/2017 1:07 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2017-07-24 20:41 **Data File** b cal 8-1000ng.d  
**Sample Type** Calibration **Sample Name** b cal 8-1000ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 11-18-2016.m  
**Position** P1-H1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28

### Sample Chromatogram



### Results

| Compound               | ISTD Compound             | RT               | Response          | ISTD Resp        | Resp Ratio         | Final Conc                                |
|------------------------|---------------------------|------------------|-------------------|------------------|--------------------|---|
| <del>Oxymorphone</del> | <del>Oxymorphone-D3</del> | <del>1.828</del> | <del>977084</del> | <del>42519</del> | <del>22.9800</del> | <del>1000.7983</del> <i>not evaluated</i> |
| Dihydrocodeine         | Dihydrocodeine-D6         | 4.335            | 1846269           | 100741           | 18.3269            | 958.8193                                  |
| Naloxone               | Naloxone-D5               | 4.569            | 1104658           | 85126            | 12.9768            | 988.8238                                  |
| Noroxycodone           | Noroxycodone-D3           | 4.858            | 1053255           | 50573            | 20.8262            | 952.2442                                  |
| Naltrexone             | Naltrexone-D3             | 5.071            | 1679570           | 82840            | 20.2750            | 987.0635                                  |
| Acetyl Norfentanyl     | Acetyl Norfentanyl-D5     | 5.184            | 854260            | 344840           | 2.4773             | 111.3390                                  |
| Naltrexol              | Naltrexol-D3              | 5.350            | 5481248           | 234606           | 23.3636            | 966.2534                                  |
| O-desmethyl-tramadol   | O-desmethyl-tramadol-D6   | 5.479            | 16424726          | 749165           | 21.9241            | 999.3915                                  |
| Ketamine               | Ketamine-D4               | 6.281            | 5724559           | 252009           | 22.7157            | 952.8880                                  |
| Norfentanyl            | Norfentanyl-D5            | 6.324            | 990588            | 437479           | 2.2643             | 101.5054                                  |
| alpha-PVP              | alpha-PVP-d8              | 6.628            | 8558598           | 395772           | 21.6251            | 986.5788                                  |
| Acetyl Fentanyl        | Acetyl Fentanyl-D5        | 6.942            | 682259            | 370030           | 1.8438             | 99.6557                                   |
| Norbuprenorphine       | Norbuprenorphine-D3       | 7.255            | 11580             | 5565             | 2.0807             | 102.0682                                  |
| Fentanyl               | Fentanyl-D5               | 7.299            | 448846            | 191026           | 2.3497             | 103.5797                                  |
| EDDP                   | EDDP-D3                   | 7.390            | 1058879           | 49076            | 21.5761            | 997.9451                                  |
| Buprenorphine          | Buprenorphine-D4          | 7.817            | 94444             | 34989            | 2.6993             | 109.1339                                  |
| Quetiapine             | Quetiapine-D8             | 7.580            | 12213029          | 170633           | 71.5749            | 999.3881                                  |
| Sufentanil             | Sufentanil-D5             | 7.579            | 304806            | 131800           | 2.3126             | 99.8159                                   |
| Cyclobenzaprine        | Cyclobenzaprine-D3        | 7.633            | 1658779           | 72524            | 22.8723            | 998.7877                                  |
| Methadone              | Methadone-D9              | 7.644            | 4952133           | 264174           | 18.7457            | 956.0196                                  |
| Fluoxetine             | Fluoxetine-D6             | 7.685            | 2963439           | 150589           | 19.6790            | 1008.8194                                 |
| Oxazepam               | Oxazepam-D5               | 7.710            | 593129            | 26629            | 22.2742            | 976.4126                                  |
| Sertraline             | Sertraline-D3             | 7.746            | 789450            | 37276            | 21.1785            | 1003.7047                                 |

**ISP FORENSICS - Cd'A Instrument # 62340**  
**Multi-Drug Confirmatory Analysis Report**

b cal 8

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| <b>Compound</b> | <b>ISTD Compound</b> | <b>RT</b> | <b>Response</b> | <b>ISTD Resp</b> | <b>Resp Ratio</b> | <b>Final Conc</b> |
|-----------------|----------------------|-----------|-----------------|------------------|-------------------|-------------------|
| Temazepam       | Temazepam-D5         | 7.768     | 3534241         | 173418           | 20.3799           | 995.9333          |
| Nordiazepam     | Nordiazepam-D5       | 7.836     | 735817          | 20105            | 36.5979           | 1056.2094         |
| Diazepam        | Diazepam-D5          | 7.891     | 3278233         | 132933           | 24.6608           | 1000.8646         |

