

**Worklist: 2357**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
C2018-0552	1	114430	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC
C2018-0726	1	114429	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC



A handwritten signature in black ink, consisting of a stylized, cursive letter 'A' with a long horizontal stroke extending to the right.

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

Extraction Date: 4-25-18

Analyst: Anne Nord

Plate lot#: 0507680

Plate Expiration: 6-5-2018

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

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

**Blank Blood Lot:** 17J20718

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

**LCMS-QQQ ID:** 62340

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist:

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette **250µL 00.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792*
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add **900uL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 66819*
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Create batch and process data.  
Worklist path: 04252018 mda Batch Name: mda pla  
mda plb
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> values ≥ 0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/- 2%), S/N for primary transition > 10 and secondary transitions > 5.
- 5. Did all QCs pass for each analyte? Y/N \_\_\_\_\_ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: Curved ranges 6-Mam 1-100, norhydrocodone 25-1000,  
QC10 not evaluated for the following compounds due to top of  
peak being cut off, morphine, meprobamate, & hydroxy Alprazolam.  
QC1000 not evaluated for sertraline top of internal standard peak cut off.  
Removed 100ng calibrator from Tramazodon Part of the peak was missing.  
Plb level 3 calibrator dropped it did not inject.  
Plb only: Diazepam, Nordiazepam, Methadone, and Sertraline were reevaluated. QC10 not run for  
Plb level 1, 4, 5 etc. Calibrators did not inject first time, added 20ul reconstitution solvent Plb A.

Toxicology AM method 28 panel 1 external prep information  
working solution 10000 ng/ml in meoh Lorazepam, alprazolam, diphenhydramine, methadone, sertraline  
Stock solution 1mg/ml 100 ul each in 9500 ul meOH  
Ppd 3/19/18 Exp: 3/19/19 lot 31919 by AMN

Drug	lot	expiration
alprazolam	fe07161509	7/1/2020
diphenhydramine	fn09161502	9/1/2020
Lorazepam	fe04231401	5/1/2019
methadone	fe06221502	7/1/2020
sertraline	fn01081501	3/1/2020

AM 28 control 50 ul working solution lot (31919) in 9950 ul blood lot (17J20718)  
ppd 3/19/18 Exp 9/19/18 by AMN Concentration 50 ng/ml each lot 91918

# ISP FORENSICS - Cd'A Instrument # 62340

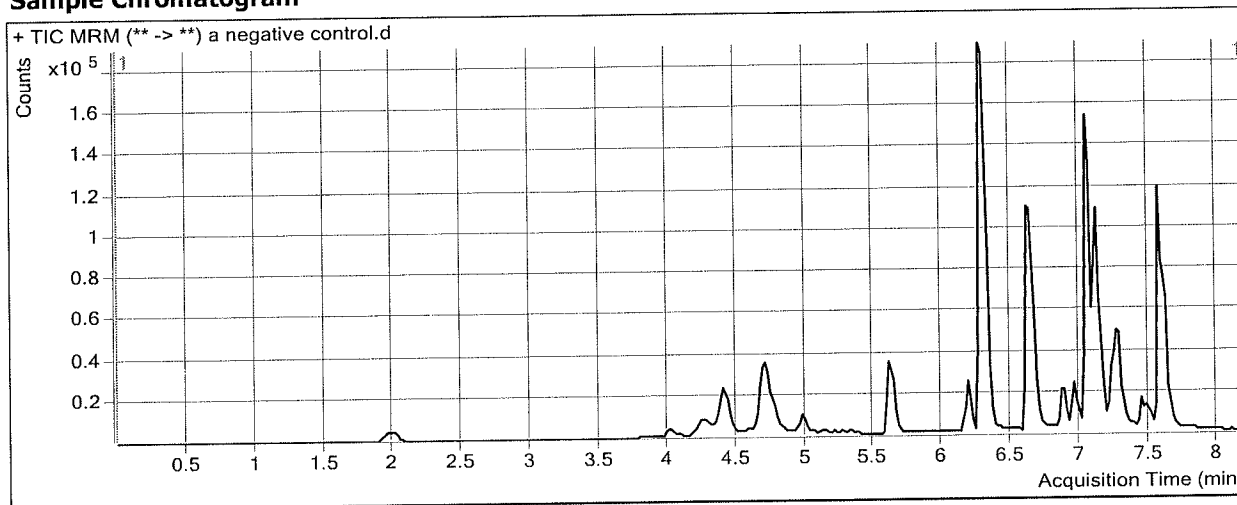
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 16:22 **Data File** a negative control.d  
**Sample Type** Sample **Sample Name** a negative control  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-E2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Citalopram	Citalopram-D6	7.257	1308	54094	0.0242	1.1720

# ISP FORENSICS - Cd'A Instrument # 62340

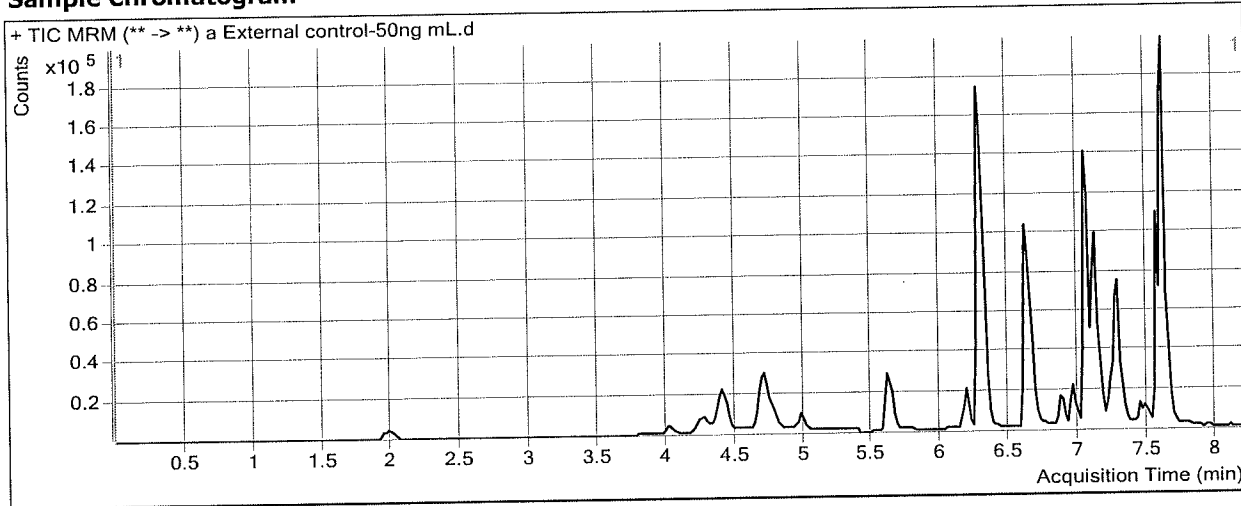
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 16:48 **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 10-17.m  
**Position** P1-F2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28; external control p1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Diphenhydramine	Diphenhydramine-D3	7.291	80506	74787	1.0765	57.5346
Lorazepam	Clonazepam-D4	7.602	21038	10402	2.0225	58.2667
Alprazolam	Alprazolam-D5	7.626	185934	143411	1.2965	51.2123

# ISP FORENSICS - Cd'A Instrument # 62340

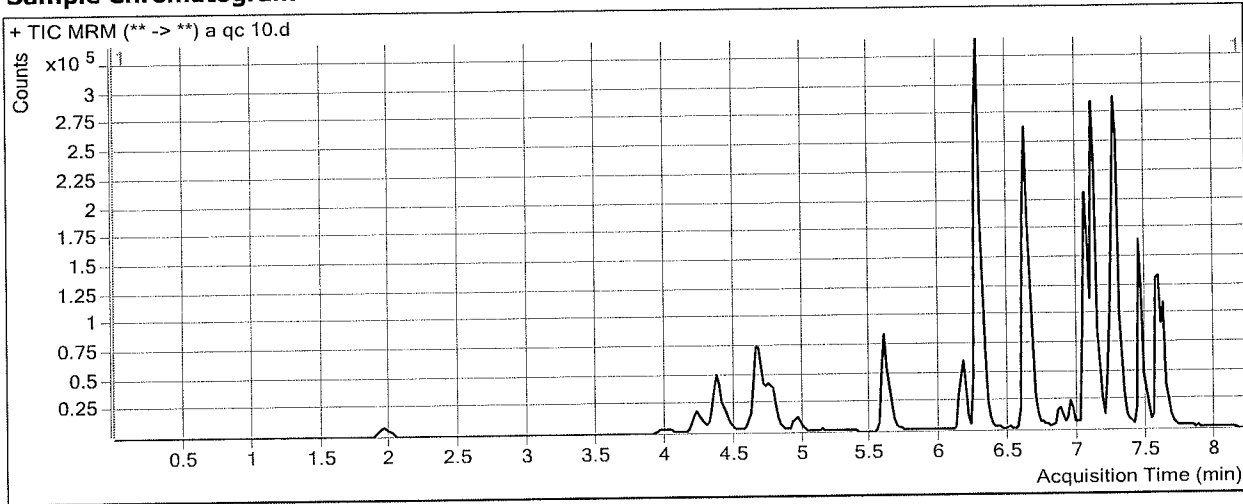
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 10:51 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 10:54 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 10:51 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-27 09:46 **Data File** a qc 10.d  
**Sample Type** QC **Sample Name** a QC 10  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-A2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
<del>Morphine</del>	<del>Morphine-D6</del>	<del>1.328</del>	<del>2184</del>	<del>1690</del>	<del>1.2926</del>	<del>13.0999</del> <i>not evaluated</i>
Hydromorphone	Hydromorphone-D6	1.969	9651	31147	0.3098	10.2659
Codeine	Codeine-D6	4.056	4536	18614	0.2437	10.0417
Amphetamine	Amphetamine-D11	4.383	86845	76132	1.1407	11.0922
Oxycodone	Oxycodone-D6	4.429	22373	90792	0.2464	9.8812
Hydrocodone	Hydrocodone-D6	4.734	16171	87291	0.1853	9.5296
<del>Norhydrocodone</del>	<del>Norhydrocodone-D3</del>	<del>4.779</del>	<del>999</del>	<del>31896</del>	<del>0.0313</del>	<del>10.7797</del> <i>outside curve range</i>
Methamphetamine	Methamphetamine-D11	4.782	81963	278810	0.2940	10.0713
6-MAM	6-MAM-D6	4.968	755	29263	0.0258	0.9747
Phentermine	Phentermine-D5	5.646	17902	272862	0.0656	10.2808
Dextrorphan	Dextrorphan-D3	6.163	15984	134106	0.1192	9.9756
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	21177	89500	0.2366	9.9991
Tramadol	Tramadol-13C-D3	6.282	169856	829560	0.2048	10.1035
Doxylamine	Doxylamine-D5	6.641	138537	718942	0.1927	9.3752
Bupropion	Bupropion-D9	6.890	8023	47377	0.1693	8.3557
<del>Meprobamate</del>	<del>Meprobamate-D7</del>	<del>6.992</del>	<del>4573</del>	<del>53871</del>	<del>0.0849</del>	<del>6.4061</del> <i>Not evaluated</i>
Zolpidem	Zolpidem-D6	7.061	111206	524510	0.2120	9.8038
Venlafaxine	Venlafaxine-D6	7.105	138271	608204	0.2273	10.6045
Trazodone	Trazodone-D6	7.255	47796	223335	0.2140	9.5557
Citalopram	Citalopram-D6	7.237	52758	237698	0.2220	10.0900
Dextromethorphan	Dextromethorphan-D3	7.268	10035	49386	0.2032	10.2203
Diphenhydramine	Diphenhydramine-D3	7.291	76571	413072	0.1854	9.8766
Promethazine	Promethazine-D3	7.446	61324	325724	0.1883	10.4334

PIA QC 10

# ISP FORENSICS - Cd'A Instrument # 62340

## Multi-Drug Confirmatory Analysis Report

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.502	8255	11637	0.7093	10.2958
Carisoprodol	Carisoprodol-D7	7.592	46270	252962	0.1829	10.1586
<del>a-hydroxyalprazolam</del>	<del>a-hydroxyalprazolam-D5</del>	<del>7.560</del>	<del>3527</del>	<del>15756</del>	<del>0.2239</del>	<del>10.2328</del> <i>not Evaluated</i>
Lorazepam	Clonazepam-D4	7.602	4113	11637	0.3534	12.8401
Alprazolam	Alprazolam-D5	7.626	38092	157168	0.2424	9.6918

# ISP FORENSICS - Cd'A Instrument # 62340

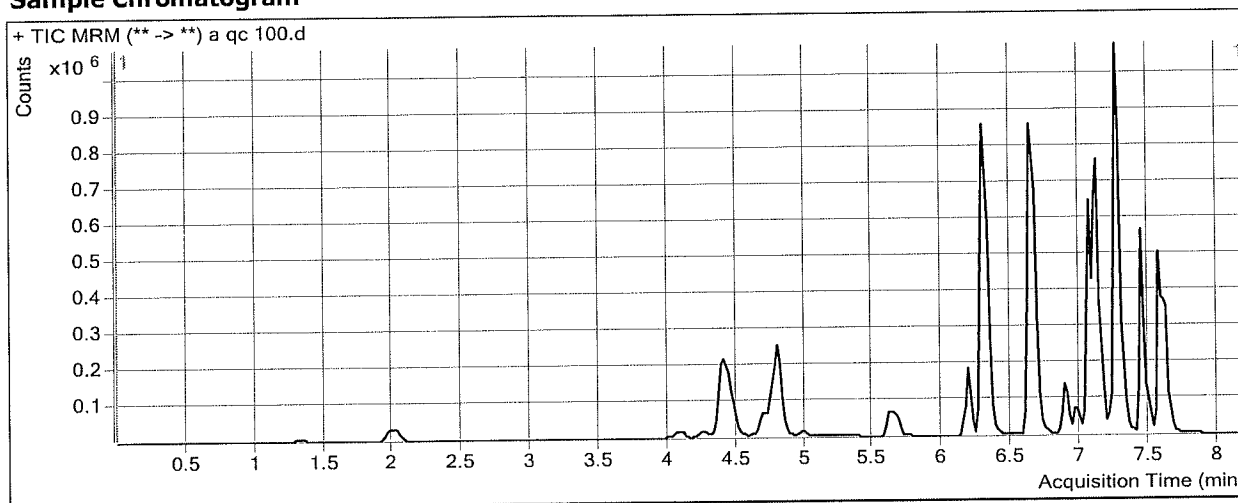
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 19:32 **Data File** a qc 100.d  
**Sample Type** QC **Sample Name** a qc 100  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-B2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	21766	1866	11.6663	109.6201
Hydromorphone	Hydromorphone-D6	2.009	101055	30078	3.3598	102.2132
Codeine	Codeine-D6	4.095	45865	17796	2.5773	99.4462
Amphetamine	Amphetamine-D11	4.403	566570	63019	8.9904	107.6484
Oxycodone	Oxycodone-D6	4.469	248169	93244	2.6615	106.2127
Hydrocodone	Hydrocodone-D6	4.774	163675	84249	1.9427	109.4581
Norhydrocodone	Norhydrocodone-D3	4.799	12217	28402	0.4302	104.7532
Methamphetamine	Methamphetamine-D11	4.802	631265	208315	3.0303	118.9270
6-MAM	6-MAM-D6	4.988	7780	30503	0.2551	9.6977
Phentermine	Phentermine-D5	5.666	146393	218153	0.6711	110.4666
Dextroprphan	Dextroprphan-D3	6.183	163819	121632	1.3468	105.1784
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	215698	87644	2.4611	111.2808
Tramadol	Tramadol-13C-D3	6.302	1551106	762210	2.0350	106.3904
Doxylamine	Doxylamine-D5	6.641	1379173	671069	2.0552	100.9928
Bupropion	Bupropion-D9	6.890	245093	115538	2.1213	104.0740
Meprobamate	Meprobamate-D7	6.992	87167	54985	1.5853	95.7473
Zolpidem	Zolpidem-D6	7.061	1131028	518764	2.1802	107.6180
Venlafaxine	Venlafaxine-D6	7.125	1288757	551511	2.3368	107.2981
Trazodone	Trazodone-D6	7.255	486606	207926	2.3403	105.6310
Citalopram	Citalopram-D6	7.237	540370	229905	2.3504	106.0635
Dextromethorphan	Dextromethorphan-D3	7.268	118181	53261	2.2189	105.0635
Diphenhydramine	Diphenhydramine-D3	7.291	837380	417065	2.0078	107.3437
Promethazine	Promethazine-D3	7.446	774845	396774	1.9529	102.0321





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

*PI a 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>
Clonazepam	Clonazepam-D4	7.482	81322	11083	7.3376	98.9540
Carisoprodol	Carisoprodol-D7	7.572	442923	223201	1.9844	103.3343
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	34899	15047	2.3194	97.3309
Lorazepam	Clonazepam-D4	7.602	32602	11083	2.9416	83.2826
Alprazolam	Alprazolam-D5	7.626	374747	139014	2.6958	106.3249



# ISP FORENSICS - Cd'A Instrument # 62340

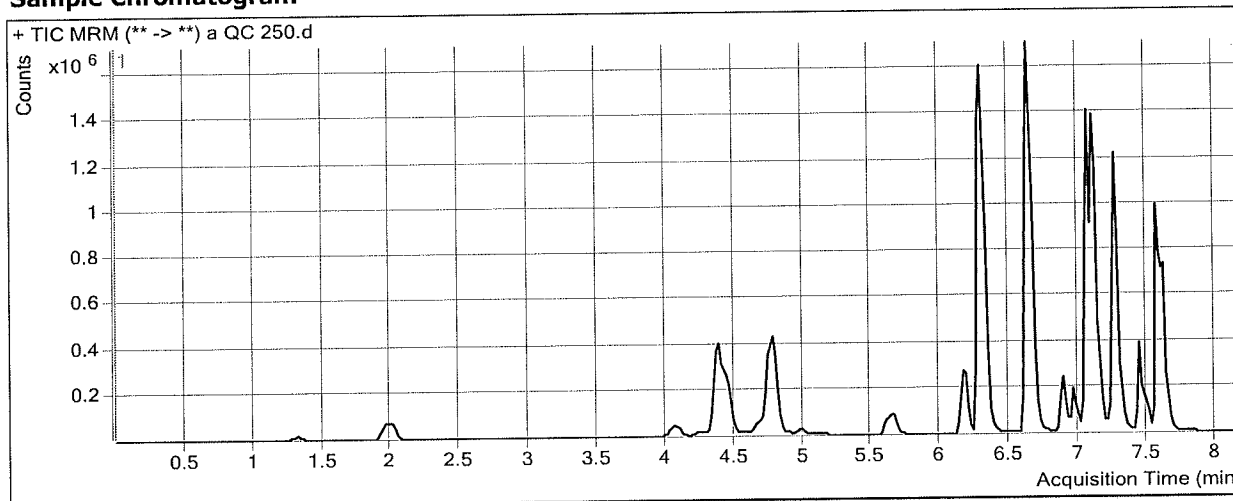
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 19:58 **Data File** a QC 250.d  
**Sample Type** QC **Sample Name** a QC 250  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-C2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	53245	1713	31.0806	290.2576
Hydromorphone	Hydromorphone-D6	1.989	246951	31154	7.9268	239.8936
Codeine	Codeine-D6	4.076	110832	18043	6.1426	236.0393
Amphetamine	Amphetamine-D11	4.383	1033533	50403	20.5056	249.2917
Oxycodone	Oxycodone-D6	4.449	616708	95738	6.4416	256.9932
Hydrocodone	Hydrocodone-D6	4.754	384051	83475	4.6008	260.5899
Norhydrocodone	Norhydrocodone-D3	4.779	23640	25409	0.9304	222.6174
Methamphetamine	Methamphetamine-D11	4.782	995204	152680	6.5182	257.6797
6-MAM	6-MAM-D6	4.988	19763	30287	0.6525	24.8206
Phentermine	Phentermine-D5	5.666	284090	178267	1.5936	263.1254
Dextroprphan	Dextroprphan-D3	6.163	316288	101116	3.1280	243.3033
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	491246	85021	5.7779	262.3000
Tramadol	Tramadol-13C-D3	6.302	3705005	766598	4.8330	253.5905
Doxylamine	Doxylamine-D5	6.641	2970148	611496	4.8572	238.8253
Bupropion	Bupropion-D9	6.890	463250	88580	5.2297	256.4992
Meprobamate	Meprobamate-D7	6.972	234272	57276	4.0902	244.9039
Zolpidem	Zolpidem-D6	7.061	2772333	539522	5.1385	254.6341
Venlafaxine	Venlafaxine-D6	7.105	2656329	465323	5.7086	261.8572
Trazodone	Trazodone-D6	7.255	750811	135946	5.5229	249.4353
Citalopram	Citalopram-D6	7.237	591062	104603	5.6505	254.8688
Dextromethorphan	Dextromethorphan-D3	7.268	117196	21967	5.3351	251.6879
Diphenhydramine	Diphenhydramine-D3	7.291	960505	195562	4.9115	262.6398
Promethazine	Promethazine-D3	7.446	613397	121323	5.0559	263.1071

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

Plc QC 250

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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>
Clonazepam	Clonazepam-D4	7.482	188209	9385	20.0543	269.0514
Carisoprodol	Carisoprodol-D7	7.572	986632	204574	4.8229	250.1426
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	85163	14544	5.8555	244.3088
Lorazepam	Clonazepam-D4	7.602	90173	9385	9.6083	264.7265
Alprazolam	Alprazolam-D5	7.626	840420	127483	6.5924	259.8040



# ISP FORENSICS - Cd'A Instrument # 62340

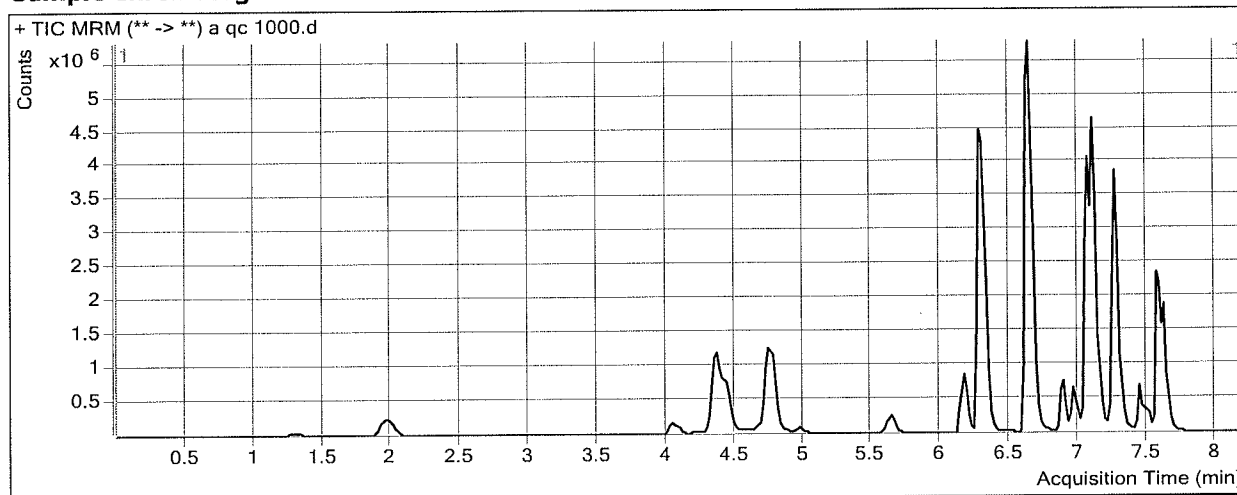
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 20:23 **Data File** a qc 1000.d  
**Sample Type** QC **Sample Name** a qc 1000  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-D2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.308	177027	1345	131.6406	1225.9003
Hydromorphone	Hydromorphone-D6	1.969	939855	26712	35.1842	1061.6172
Codeine	Codeine-D6	4.056	369939	13669	27.0632	1037.5452
Amphetamine	Amphetamine-D11	4.363	3189965	44733	71.3117	874.2384
Oxycodone	Oxycodone-D6	4.429	2229180	91509	24.3603	971.7291
Hydrocodone	Hydrocodone-D6	4.734	1234419	78314	15.7625	895.2267
Norhydrocodone	Norhydrocodone-D3	4.779	76226	17870	4.2656	1008.4712
Methamphetamine	Methamphetamine-D11	4.782	3164496	153425	20.6257	818.8901
6-MAM	6-MAM-D6	4.968	71980	28068	2.5645	97.5667
Phentermine	Phentermine-D5	5.646	902518	162815	5.5432	916.6793
Dextrophan	Dextrophan-D3	6.163	1010921	78847	12.8212	995.0059
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	1297826	64789	20.0315	911.2803
Tramadol	Tramadol-13C-D3	6.282	12873837	695923	18.4989	972.5302
Doxylamine	Doxylamine-D5	6.641	11611348	626668	18.5287	911.3404
Bupropion	Bupropion-D9	6.890	1562280	77183	20.2412	992.6093
Meprobamate	Meprobamate-D7	6.972	988067	54078	18.2710	1089.2997
Zolpidem	Zolpidem-D6	7.061	9254523	505126	18.3212	909.7746
Venlafaxine	Venlafaxine-D6	7.105	9258544	435741	21.2478	974.1566
Trazodone	Trazodone-D6	7.255	3459924	183175	18.8887	853.3675
Citalopram	Citalopram-D6	7.237	1709509	81017	21.1006	951.5271
Dextromethorphan	Dextromethorphan-D3	7.268	339385	14967	22.6753	1067.5834
Diphenhydramine	Diphenhydramine-D3	7.291	3119208	164474	18.9647	1014.2333
Promethazine	Promethazine-D3	7.446	1137352	61502	18.4930	960.6185

P1a QC 1000

**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>
Clonazepam	Clonazepam-D4	7.482	531418	6867	77.3867	1035.9213
Carisoprodol	Carisoprodol-D7	7.592	2711695	148741	18.2310	943.6281
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	314804	13726	22.9351	954.2059
Lorazepam	Clonazepam-D4	7.602	313506	6867	45.6536	1245.7587
Alprazolam	Alprazolam-D5	7.626	2215338	85895	25.7913	1016.0053



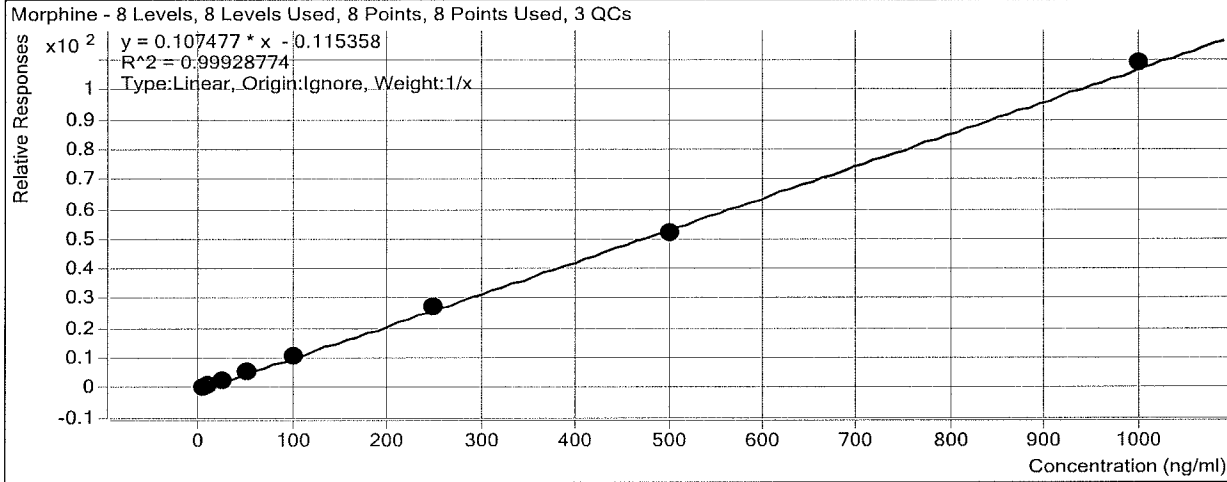
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.8	116.8
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	93.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.8	91.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.2	98.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.8	99.8
a qc 100	5	<input checked="" type="checkbox"/>	100	109.6	109.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	254.7	101.9
a QC 250	6	<input checked="" type="checkbox"/>	250	290.3	116.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	483.3	96.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1015.0	101.5
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1225.9	122.6

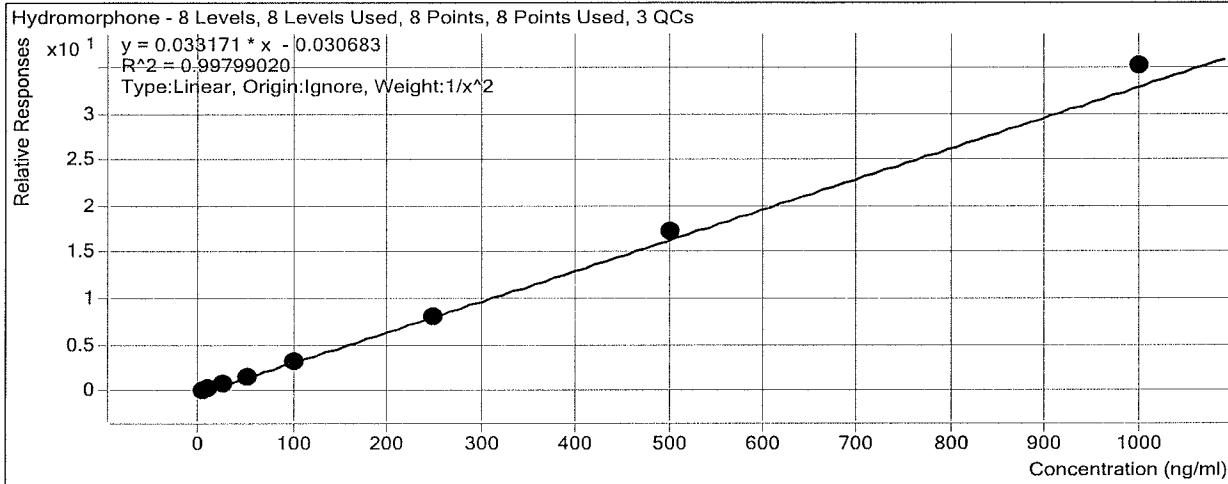
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.0	100.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	101.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.8	99.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.6	95.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	97.3	97.3
a qc 100	5	<input checked="" type="checkbox"/>	100	102.2	102.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	240.3	96.1
a QC 250	6	<input checked="" type="checkbox"/>	250	239.9	96.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	522.8	104.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1062.0	106.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1061.6	106.2

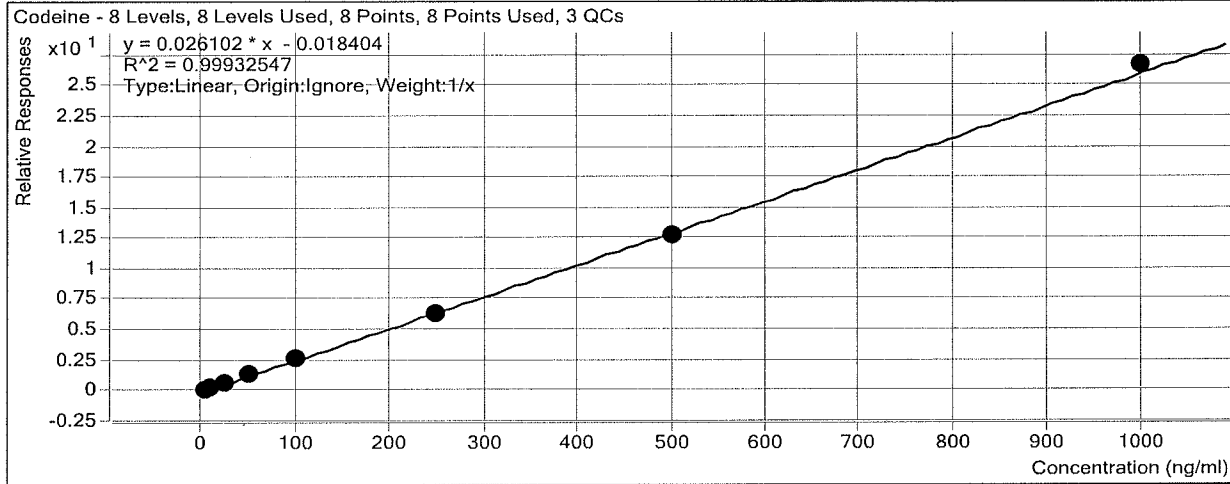
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.1	101.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.9	108.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.1	96.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.4	96.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.5	99.5
a qc 100	5	<input checked="" type="checkbox"/>	100	99.4	99.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	243.6	97.4
a QC 250	6	<input checked="" type="checkbox"/>	250	236.0	94.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	486.3	97.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1022.2	102.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1037.5	103.8



# ISP Forensics Calibration Curve Report

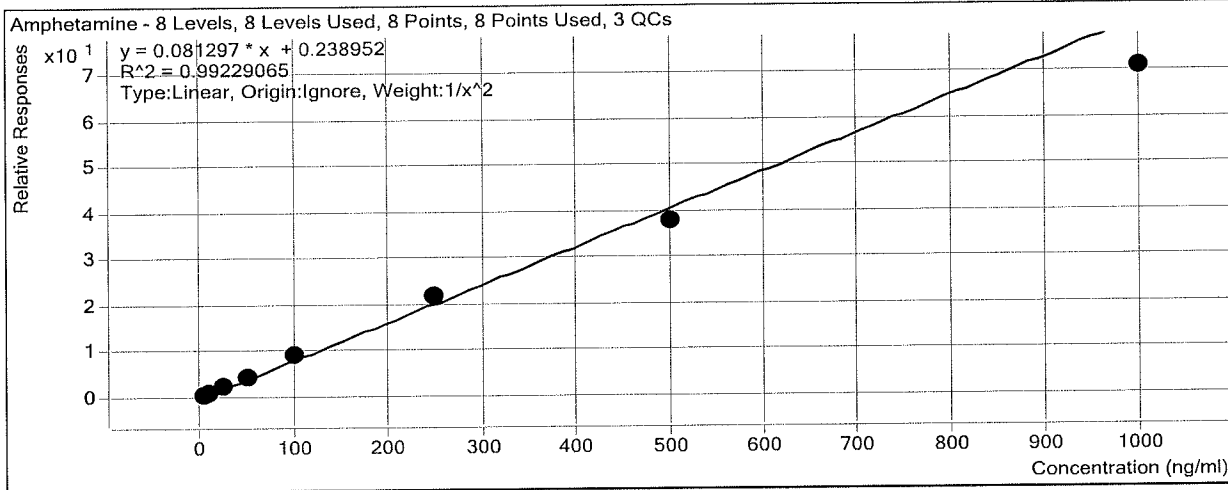
**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.0	99.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	98.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.0	104.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.3	102.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	110.1	110.1
a qc 100	5	<input checked="" type="checkbox"/>	100	107.6	107.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	266.9	106.8
a QC 250	6	<input checked="" type="checkbox"/>	250	249.3	99.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	461.4	92.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	867.4	86.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	874.2	87.4

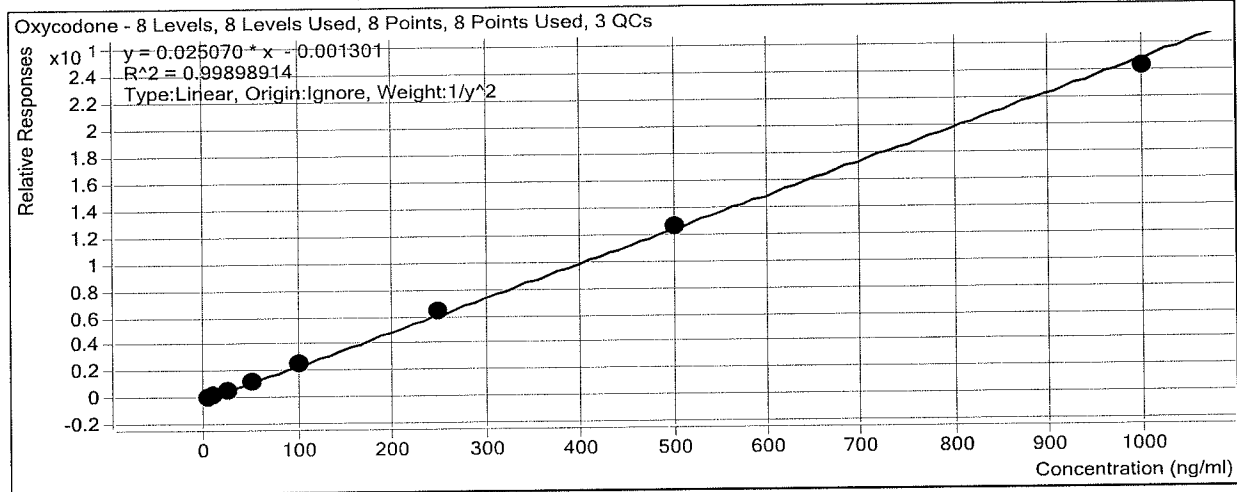
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	99.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.3	103.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.1	96.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.4	98.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.8	101.8
a qc 100	5	<input checked="" type="checkbox"/>	100	106.2	106.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	259.2	103.7
a QC 250	6	<input checked="" type="checkbox"/>	250	257.0	102.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	503.8	100.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	969.1	96.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	971.7	97.2

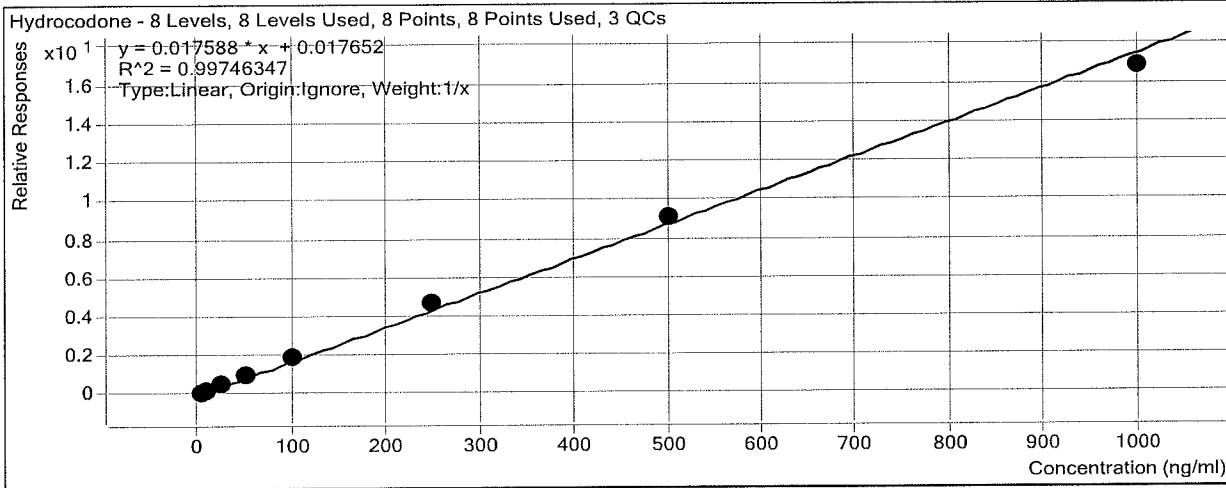
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	83.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.3	93.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.7	102.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	53.7	107.3
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	108.8	108.8
a qc 100	5	<input checked="" type="checkbox"/>	100	109.5	109.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	263.2	105.3
a QC 250	6	<input checked="" type="checkbox"/>	250	260.6	104.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	518.6	103.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	956.7	95.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	895.2	89.5

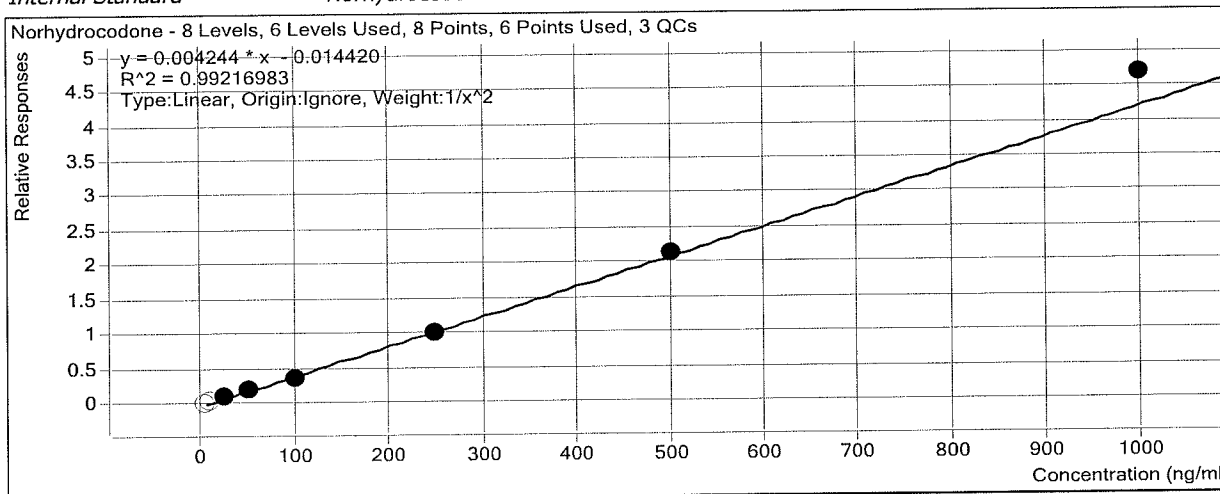
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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 type="checkbox"/>	5	8.0	159.1
a cal 2-10ng	2	<input type="checkbox"/>	10	12.0	120.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.1	104.5
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.7	95.5
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	91.2	91.2
a qc 100	5	<input checked="" type="checkbox"/>	100	104.8	104.8
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	240.4	96.1
a QC 250	6	<input checked="" type="checkbox"/>	250	222.6	89.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	509.9	102.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1107.4	110.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1008.5	100.8

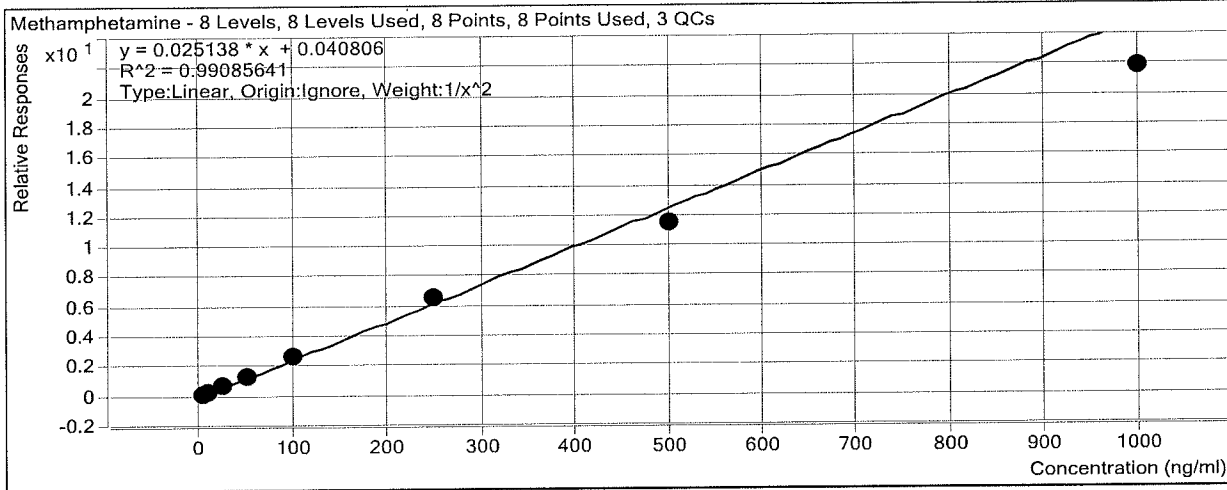
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	4.8	96.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	100.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	28.1	112.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.5	102.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	106.7	106.7
a qc 100	5	<input checked="" type="checkbox"/>	100	118.9	118.9
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	257.6	103.0
a QC 250	6	<input checked="" type="checkbox"/>	250	257.7	103.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	455.0	91.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	867.7	86.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	818.9	81.9

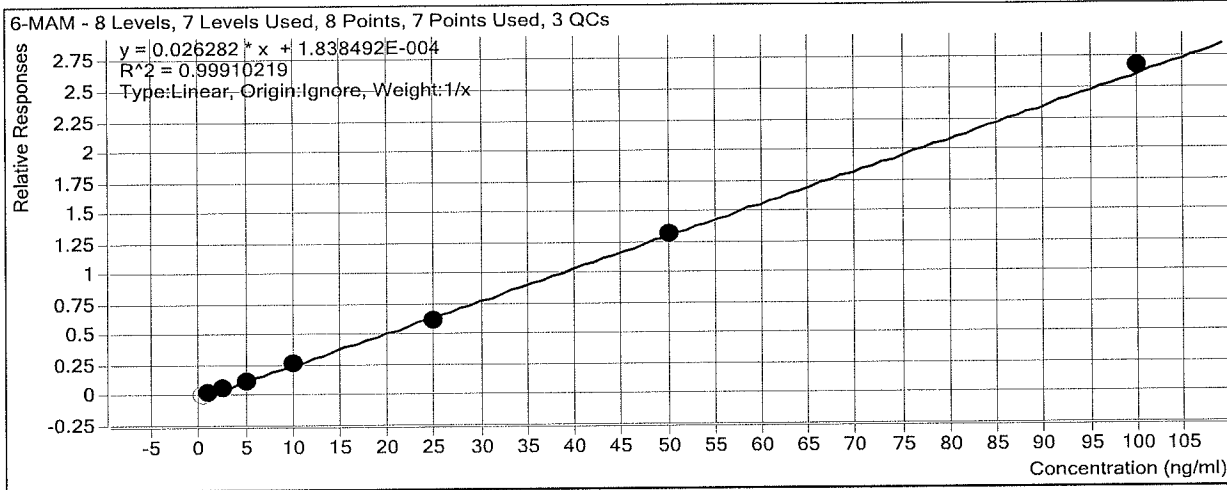
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**Analyst Name**                      ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input type="checkbox"/>	0.5	0.5	99.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	1	1.1	111.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	2.5	2.6	102.1
a cal 4-50ng	4	<input checked="" type="checkbox"/>	5	4.6	92.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	10	9.8	97.8
a qc 100	5	<input checked="" type="checkbox"/>	10	9.7	97.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	25	23.7	94.8
a QC 250	6	<input checked="" type="checkbox"/>	25	24.8	99.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	50	49.9	99.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	100	101.9	101.9
a qc 1000	8	<input checked="" type="checkbox"/>	100	97.6	97.6

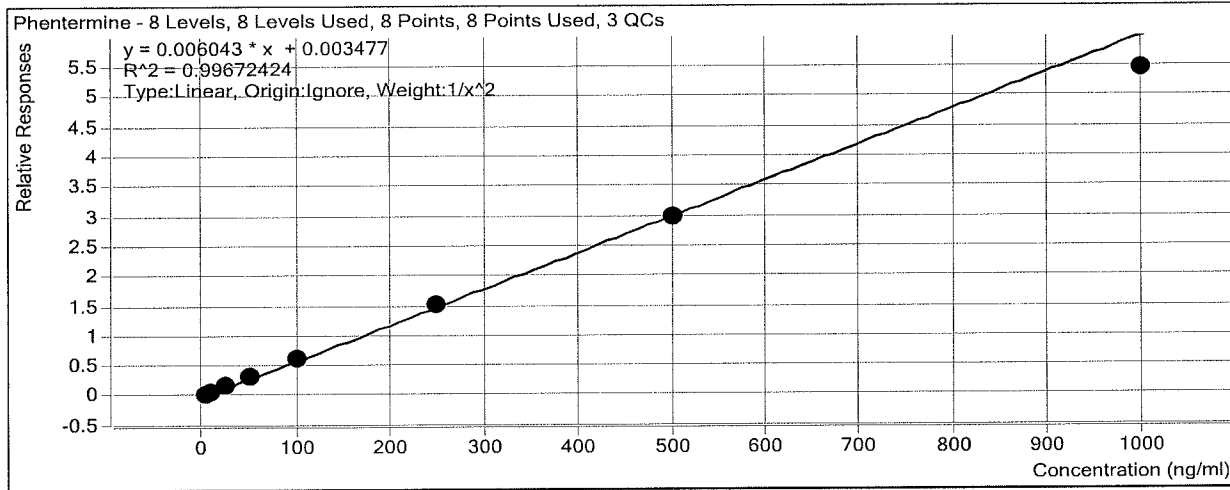
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.0	99.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	97.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.7	106.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.8	101.6
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.2	104.2
a qc 100	5	<input checked="" type="checkbox"/>	100	110.5	110.5
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	253.9	101.5
a QC 250	6	<input checked="" type="checkbox"/>	250	263.1	105.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	492.7	98.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	901.5	90.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	916.7	91.7

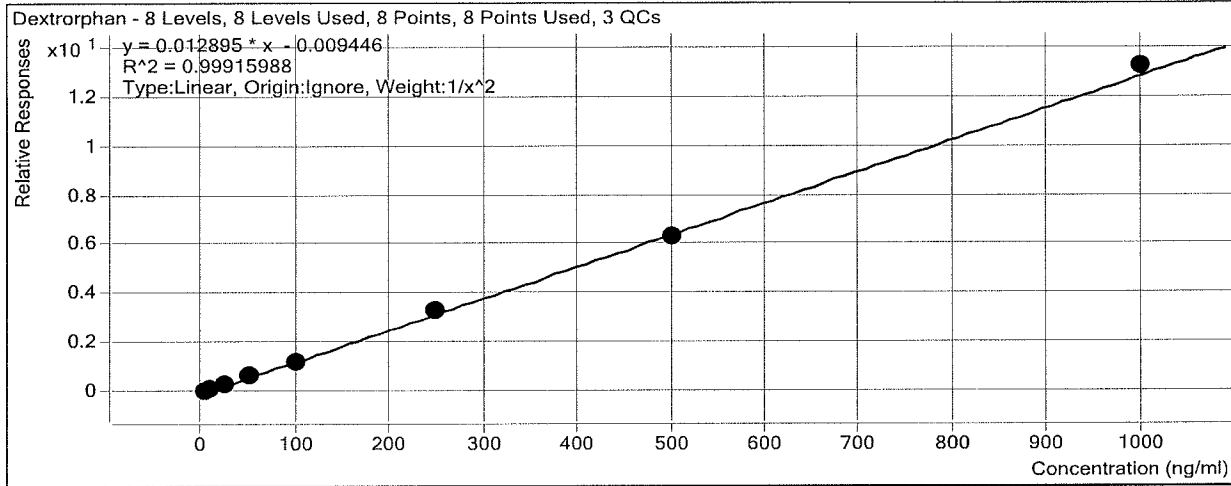
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**Analyst Name**      ISP TOX

**Target Compound**      *Dextrorphan*  
**Internal Standard**      *Dextrorphan-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.1	102.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.6	95.9
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.0	100.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.2	100.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	97.5	97.5
a qc 100	5	<input checked="" type="checkbox"/>	100	105.2	105.2
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	257.4	102.9
a QC 250	6	<input checked="" type="checkbox"/>	250	243.3	97.3
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	493.3	98.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1025.4	102.5
a qc 1000	8	<input checked="" type="checkbox"/>	1000	995.0	99.5



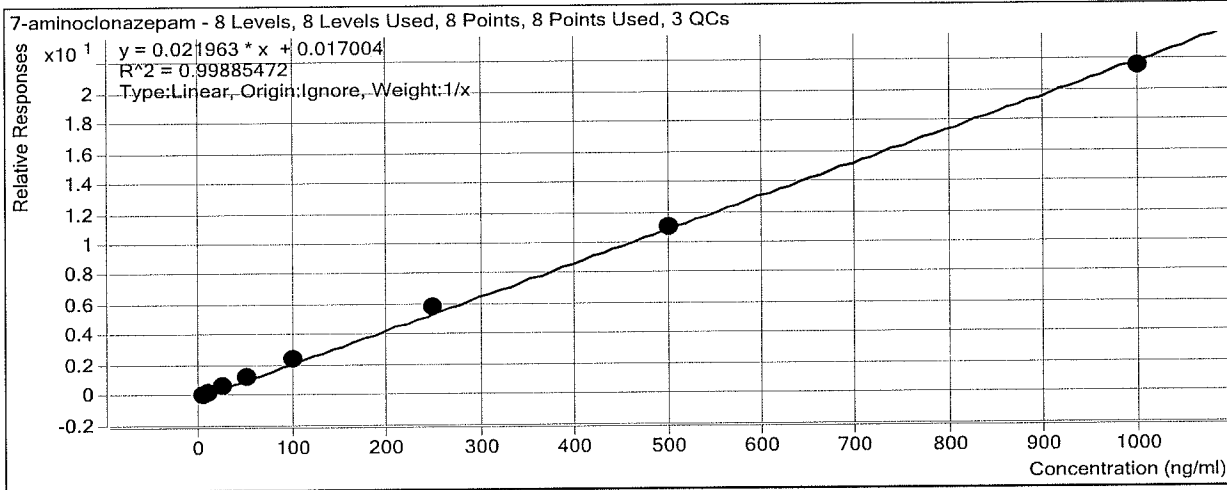
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**Analyst Name**                      ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.4	87.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	94.4
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.2	100.8
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	53.6	107.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	107.7	107.7
a qc 100	5	<input checked="" type="checkbox"/>	100	111.3	111.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	262.3	104.9
a QC 250	6	<input checked="" type="checkbox"/>	250	262.3	104.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	498.4	99.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	978.9	97.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	911.3	91.1

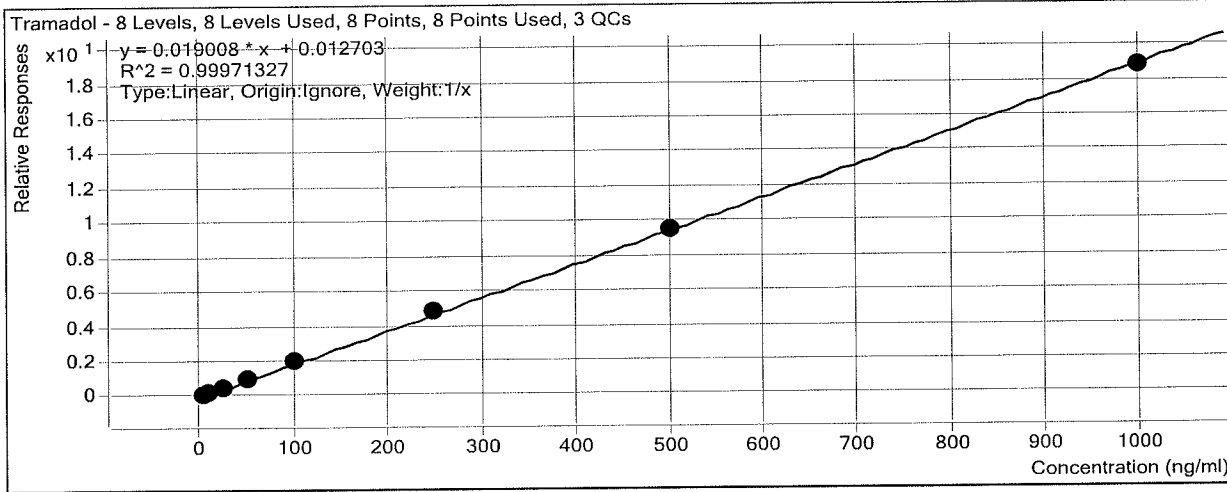
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**Analyst Name**      ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	4.7	93.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	97.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.5	101.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.0	102.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.9	104.9
a qc 100	5	<input checked="" type="checkbox"/>	100	106.4	106.4
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	254.2	101.7
a QC 250	6	<input checked="" type="checkbox"/>	250	253.6	101.4
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	501.7	100.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	988.4	98.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	972.5	97.3

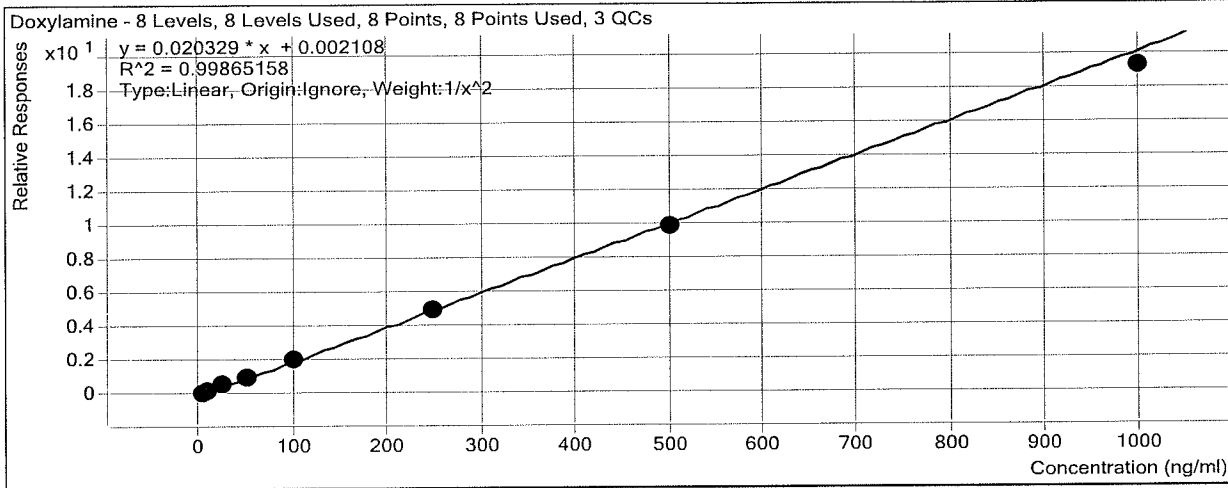
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	4.9	97.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.3	103.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.0	104.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.9	101.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.0	102.0
a qc 100	5	<input checked="" type="checkbox"/>	100	101.0	101.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	247.5	99.0
a QC 250	6	<input checked="" type="checkbox"/>	250	238.8	95.5
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	487.6	97.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	951.0	95.1
a qc 1000	8	<input checked="" type="checkbox"/>	1000	911.3	91.1

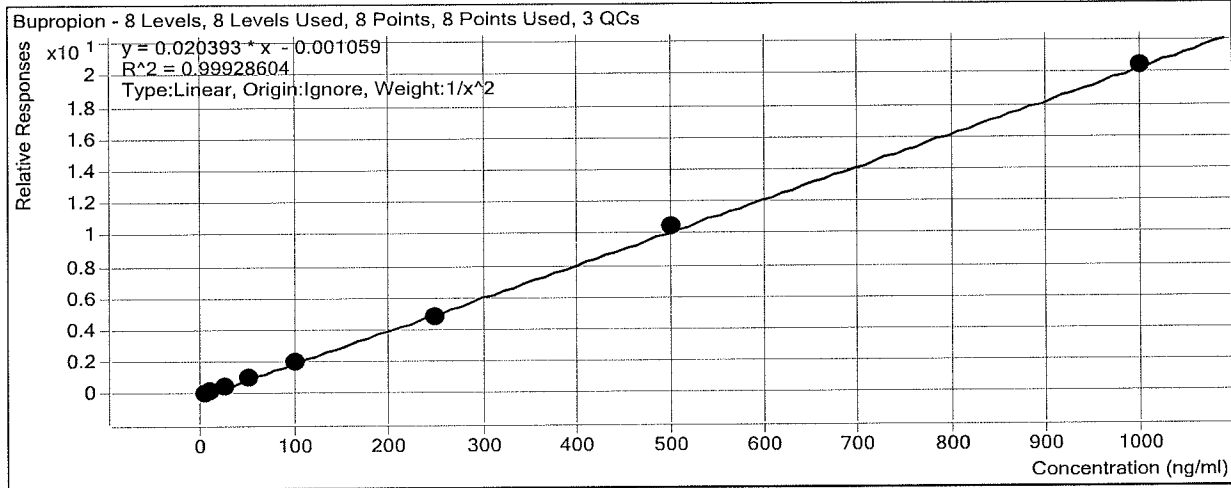
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.0	100.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.0	99.5
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.3	97.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.4	100.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.9	101.9
a qc 100	5	<input checked="" type="checkbox"/>	100	104.1	104.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	240.6	96.2
a QC 250	6	<input checked="" type="checkbox"/>	250	256.5	102.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	516.6	103.3
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1002.0	100.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	992.6	99.3

# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

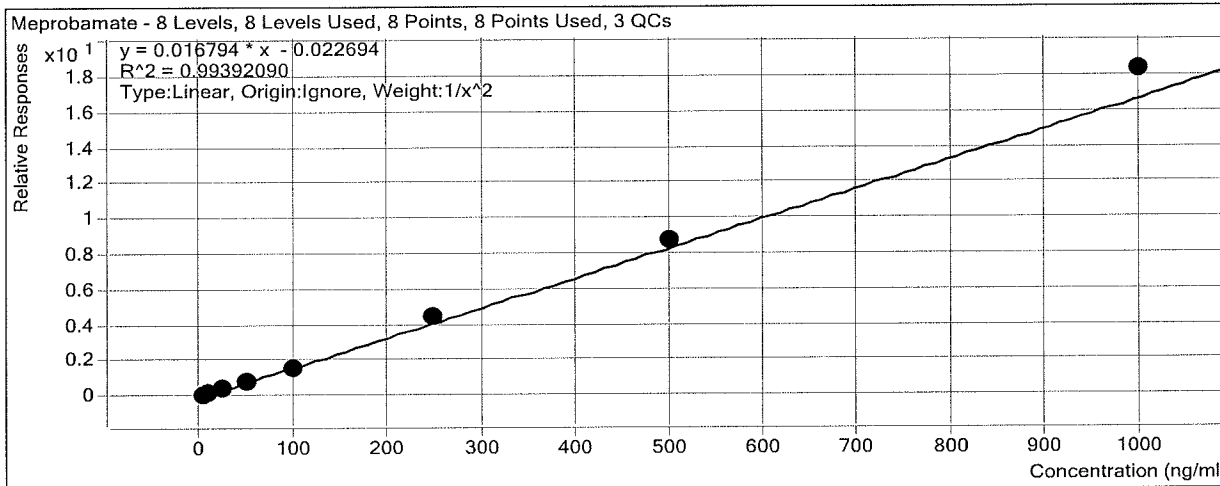
D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin

4/27/2018 8:45 AM

**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	5.2	104.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.4	94.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.7	98.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.0	92.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	91.8	91.8
a qc 100	5	<input checked="" type="checkbox"/>	100	95.7	95.7
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	264.8	105.9
a QC 250	6	<input checked="" type="checkbox"/>	250	244.9	98.0
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	520.2	104.0
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1092.7	109.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1089.3	108.9

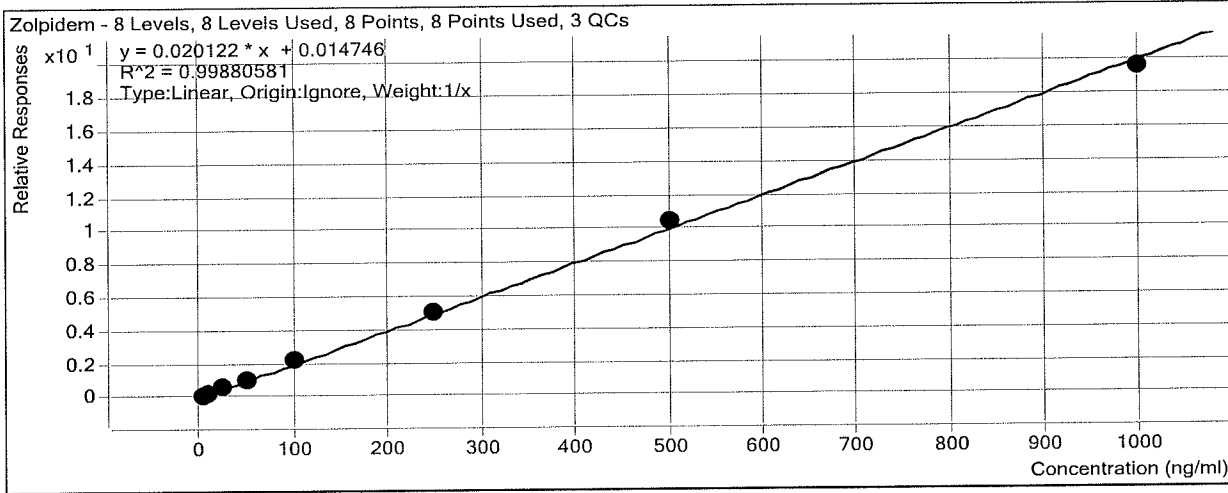
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	4.1	82.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.9	98.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	26.9	107.7
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.6	103.1
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	106.8	106.8
a qc 100	5	<input checked="" type="checkbox"/>	100	107.6	107.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	251.0	100.4
a QC 250	6	<input checked="" type="checkbox"/>	250	254.6	101.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	516.8	103.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	972.9	97.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	909.8	91.0

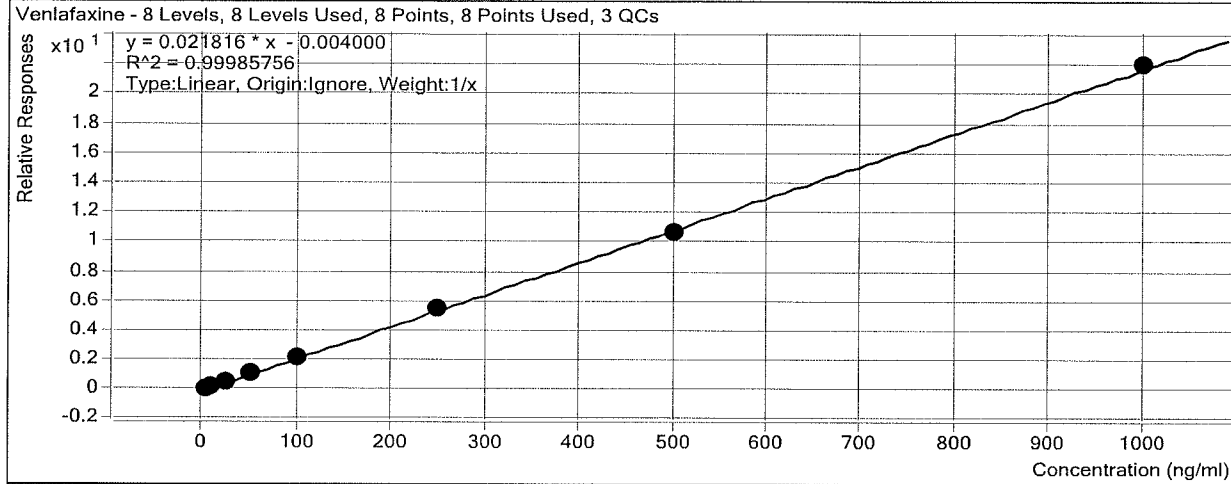
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.0	100.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	97.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.5	102.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.1	100.2
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.1	101.1
a qc 100	5	<input checked="" type="checkbox"/>	100	107.3	107.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.3	100.1
a QC 250	6	<input checked="" type="checkbox"/>	250	261.9	104.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	490.8	98.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1007.4	100.7
a qc 1000	8	<input checked="" type="checkbox"/>	1000	974.2	97.4

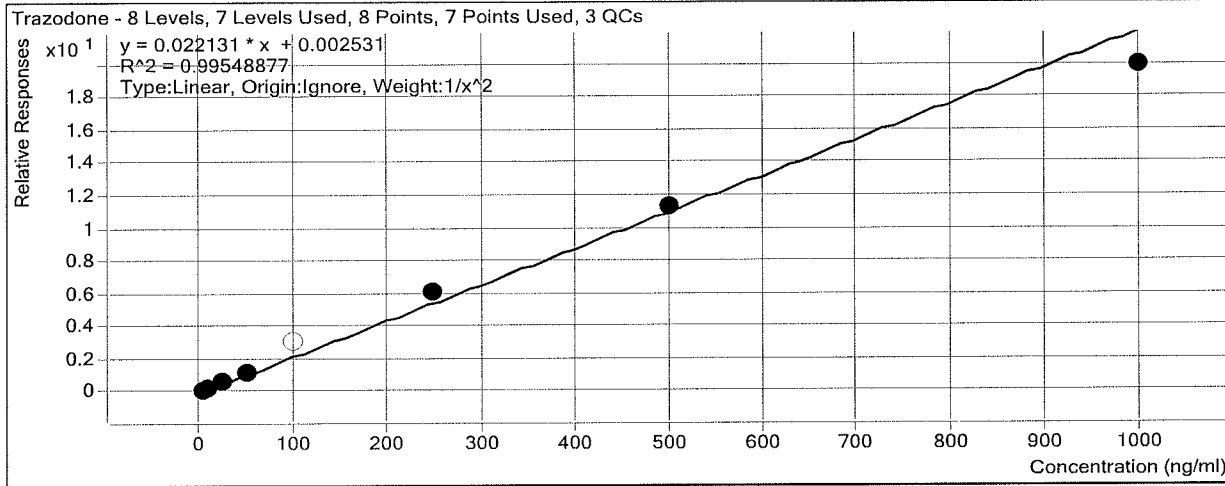
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	100.5
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	98.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.6	102.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.3	98.6
a cal 5-100ng	5	<input type="checkbox"/>	100	137.9	137.9
a qc 100	5	<input type="checkbox"/>	100	105.6	105.6
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	272.8	109.1
a QC 250	6	<input checked="" type="checkbox"/>	250	249.4	99.8
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	507.8	101.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	898.5	89.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	853.4	85.3

dropped side of primary peak cut off. ★



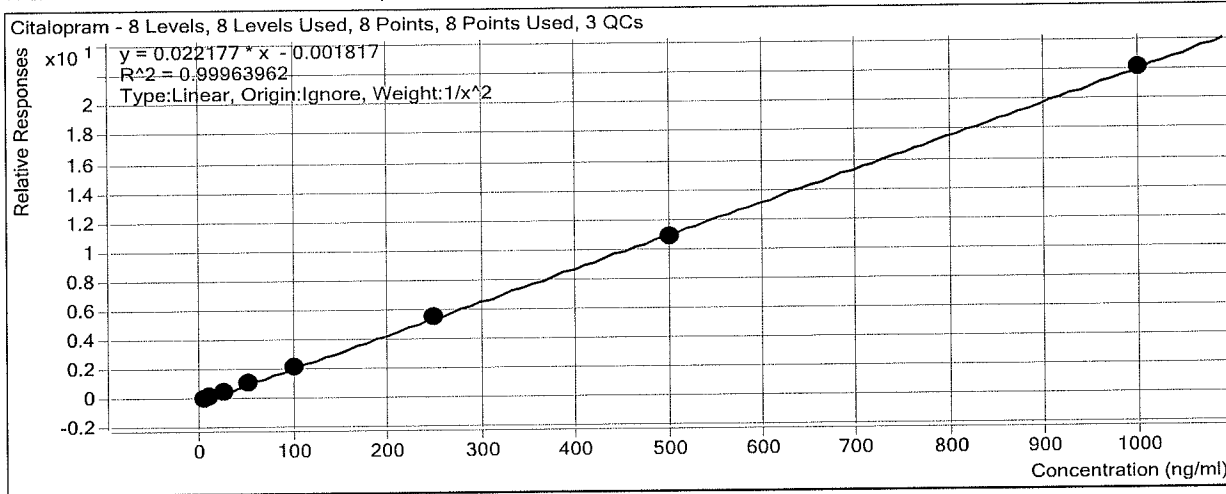
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	101.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	96.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.5	100.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.5	99.5
a qc 100	5	<input checked="" type="checkbox"/>	100	106.1	106.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	253.6	101.4
a QC 250	6	<input checked="" type="checkbox"/>	250	254.9	101.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	493.8	98.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	998.1	99.8
a qc 1000	8	<input checked="" type="checkbox"/>	1000	951.5	95.2

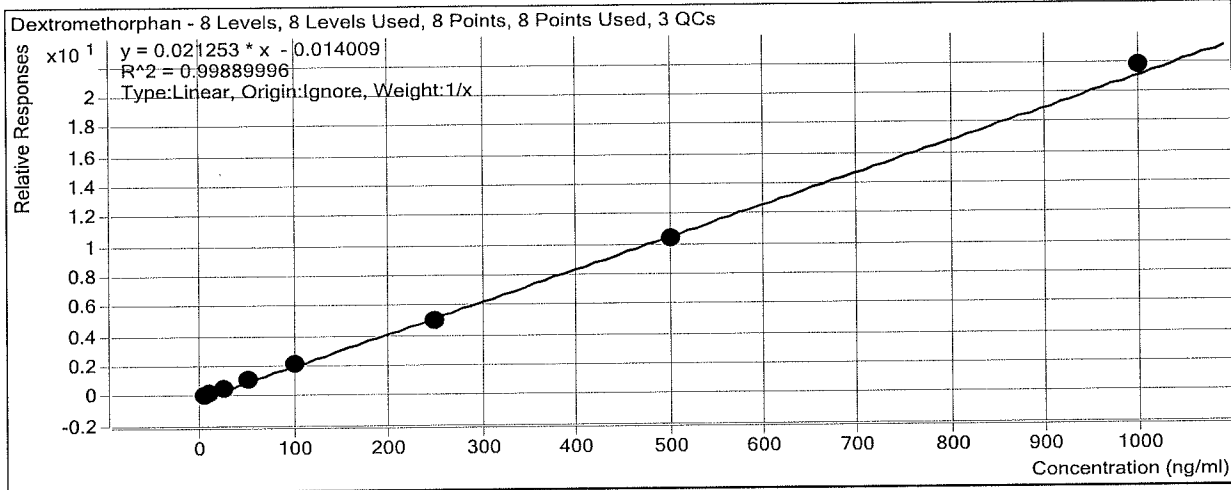
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.5	109.6
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.4	104.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	22.8	91.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.2	98.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.0	102.0
a qc 100	5	<input checked="" type="checkbox"/>	100	105.1	105.1
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	234.2	93.7
a QC 250	6	<input checked="" type="checkbox"/>	250	251.7	100.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	492.6	98.5
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1023.3	102.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1067.6	106.8

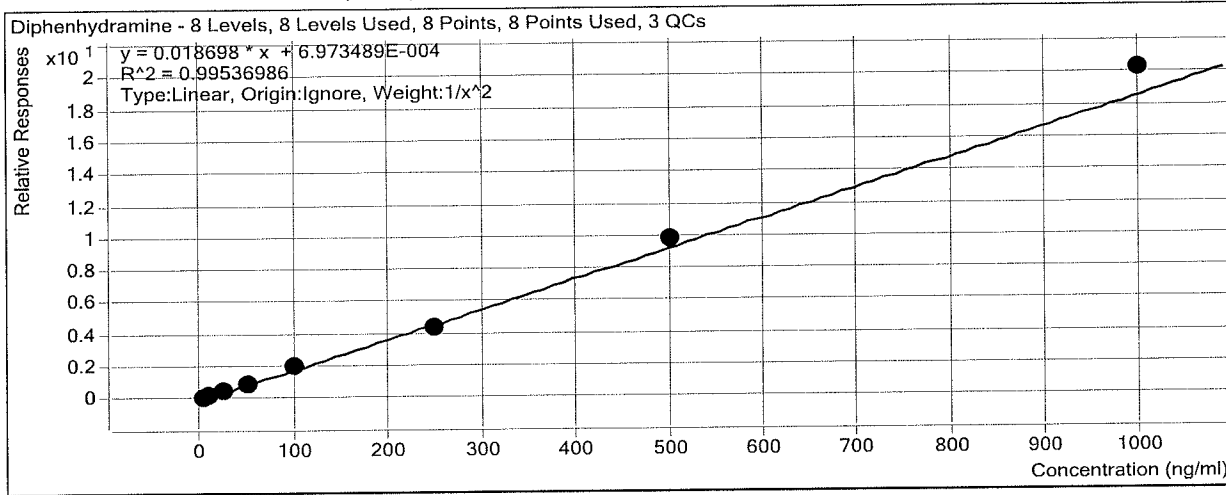
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.1	103.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.7	96.8
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.9	95.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.9	93.8
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	104.4	104.4
a qc 100	5	<input checked="" type="checkbox"/>	100	107.3	107.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	232.3	92.9
a QC 250	6	<input checked="" type="checkbox"/>	250	262.6	105.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	525.8	105.2
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1084.7	108.5
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1014.2	101.4

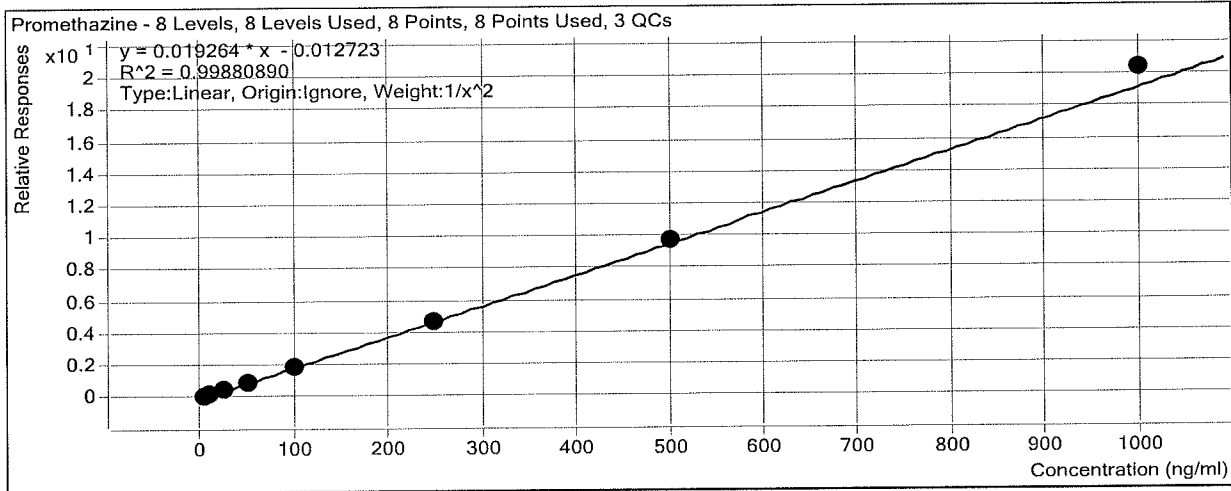
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.0	100.2
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	101.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.3	97.3
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.7	97.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.0	99.0
a qc 100	5	<input checked="" type="checkbox"/>	100	102.0	102.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	242.6	97.0
a QC 250	6	<input checked="" type="checkbox"/>	250	263.1	105.2
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	509.2	101.8
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1058.7	105.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	960.6	96.1

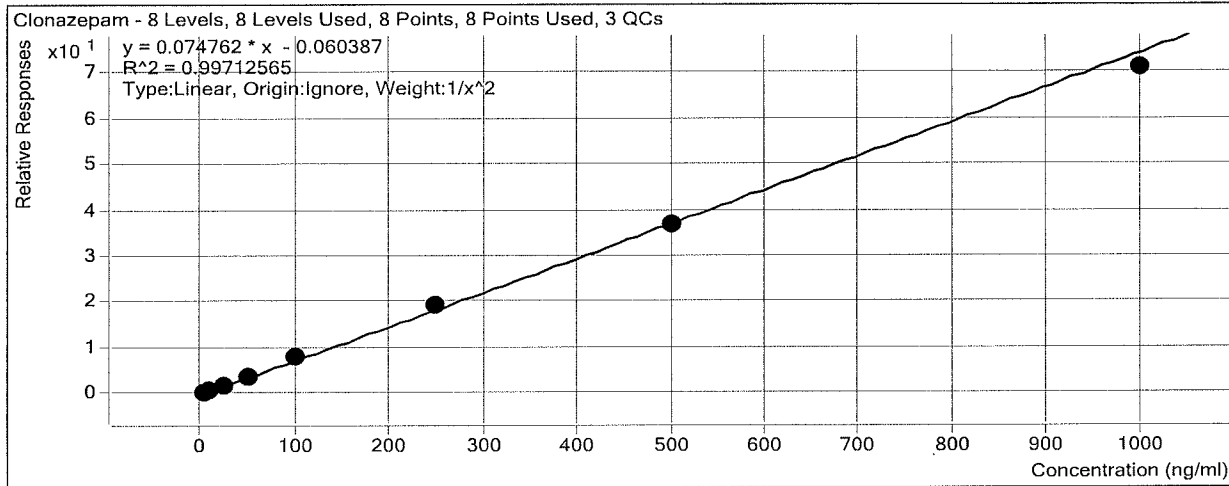
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	4.9	97.4
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.7	107.1
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.7	94.9
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	49.0	97.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	105.3	105.3
a qc 100	5	<input checked="" type="checkbox"/>	100	99.0	99.0
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	258.4	103.4
a QC 250	6	<input checked="" type="checkbox"/>	250	269.1	107.6
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	495.4	99.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	950.0	95.0
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1035.9	103.6

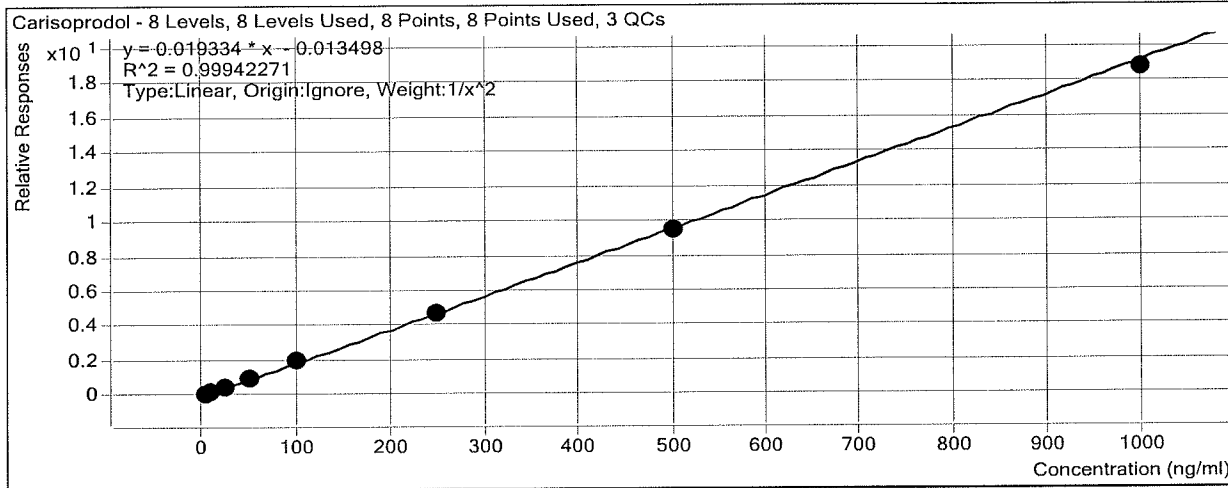
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**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	5.0	99.0
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.1	100.6
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	25.4	101.6
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	51.5	103.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.9	101.9
a qc 100	5	<input checked="" type="checkbox"/>	100	103.3	103.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	246.2	98.5
a QC 250	6	<input checked="" type="checkbox"/>	250	250.1	100.1
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	490.7	98.1
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	971.8	97.2
a qc 1000	8	<input checked="" type="checkbox"/>	1000	943.6	94.4

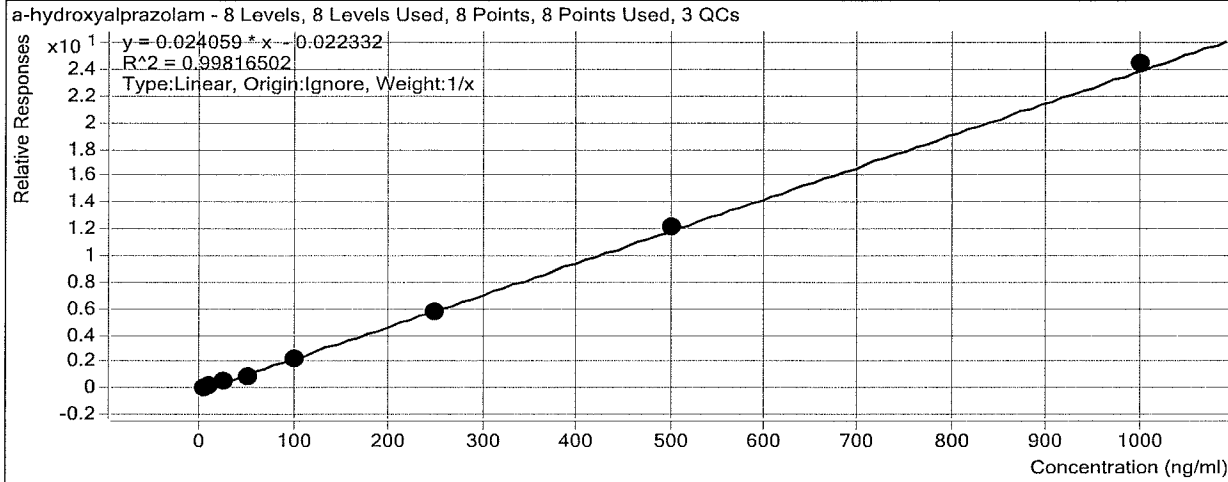
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**Analyst Name**                      ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	5.6	111.1
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	11.9	119.0
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	23.9	95.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	41.0	82.0
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	93.0	93.0
a qc 100	5	<input checked="" type="checkbox"/>	100	97.3	97.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	241.3	96.5
a QC 250	6	<input checked="" type="checkbox"/>	250	244.3	97.7
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	506.9	101.4
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1016.5	101.6
a qc 1000	8	<input checked="" type="checkbox"/>	1000	954.2	95.4

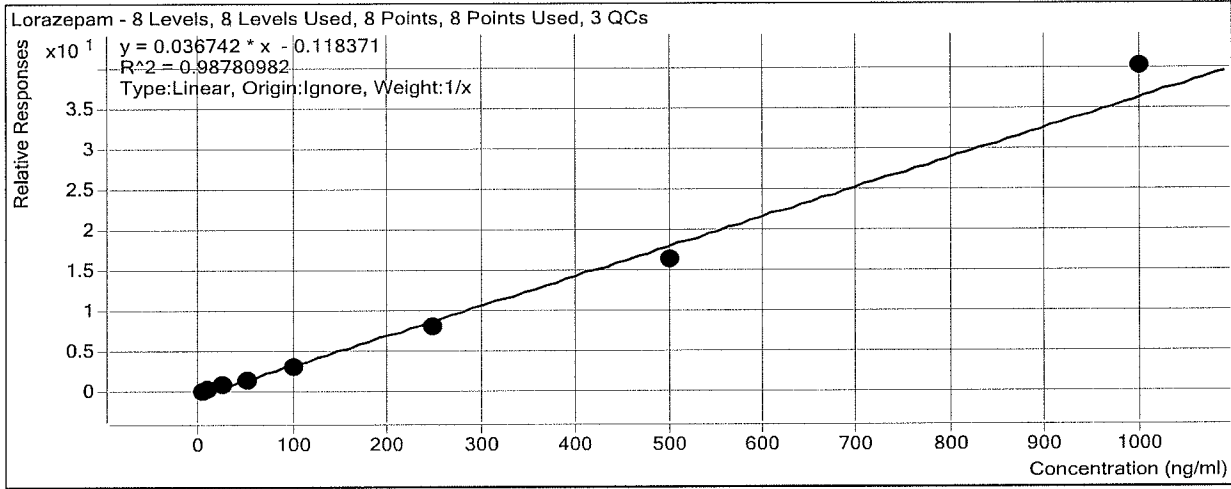
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
4/27/2018 8:45 AM

**Analyst Name**      ISP TOX

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



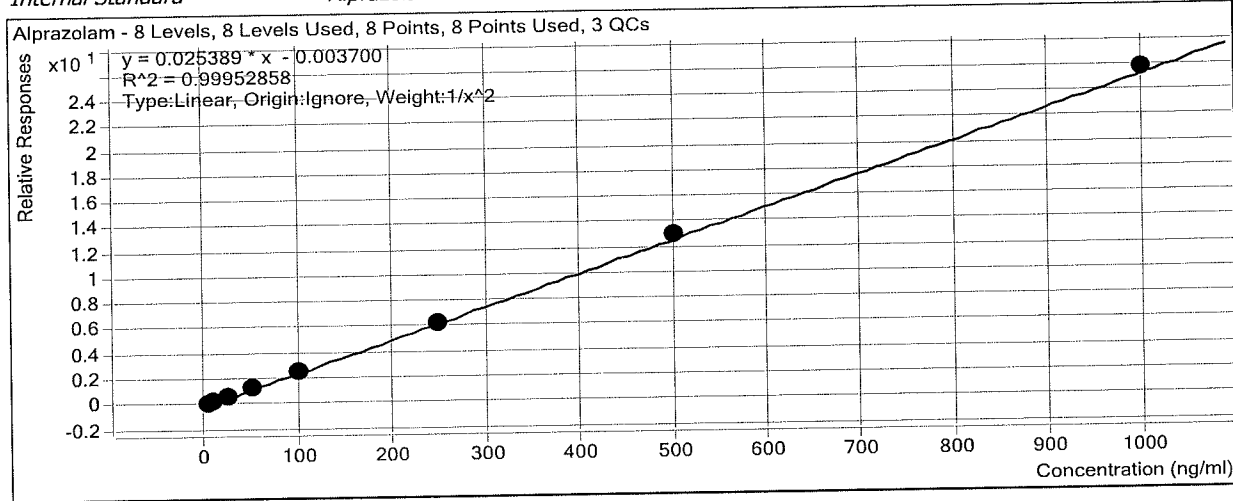
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng	1	<input checked="" type="checkbox"/>	5	6.4	128.9
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	11.5	114.7
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.4	97.4
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	41.7	83.4
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	87.5	87.5
a qc 100	5	<input checked="" type="checkbox"/>	100	83.3	83.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	221.4	88.6
a QC 250	6	<input checked="" type="checkbox"/>	250	264.7	105.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	448.7	89.7
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1098.5	109.9
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1245.8	124.6



# ISP Forensics Calibration Curve Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Last Calib Update** 4/27/2018 8:45 AM **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	101.3
a cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	98.2
a cal 3-25ng	3	<input checked="" type="checkbox"/>	25	24.7	99.0
a cal 4-50ng	4	<input checked="" type="checkbox"/>	50	48.4	96.9
a cal 5-100ng	5	<input checked="" type="checkbox"/>	100	100.8	100.8
a qc 100	5	<input checked="" type="checkbox"/>	100	106.3	106.3
a cal 6-250ng	6	<input checked="" type="checkbox"/>	250	249.6	99.8
a QC 250	6	<input checked="" type="checkbox"/>	250	259.8	103.9
a cal 7-500ng	7	<input checked="" type="checkbox"/>	500	513.0	102.6
a cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1013.4	101.3
a qc 1000	8	<input checked="" type="checkbox"/>	1000	1016.0	101.6

# ISP FORENSICS - Cd'A Instrument # 62340

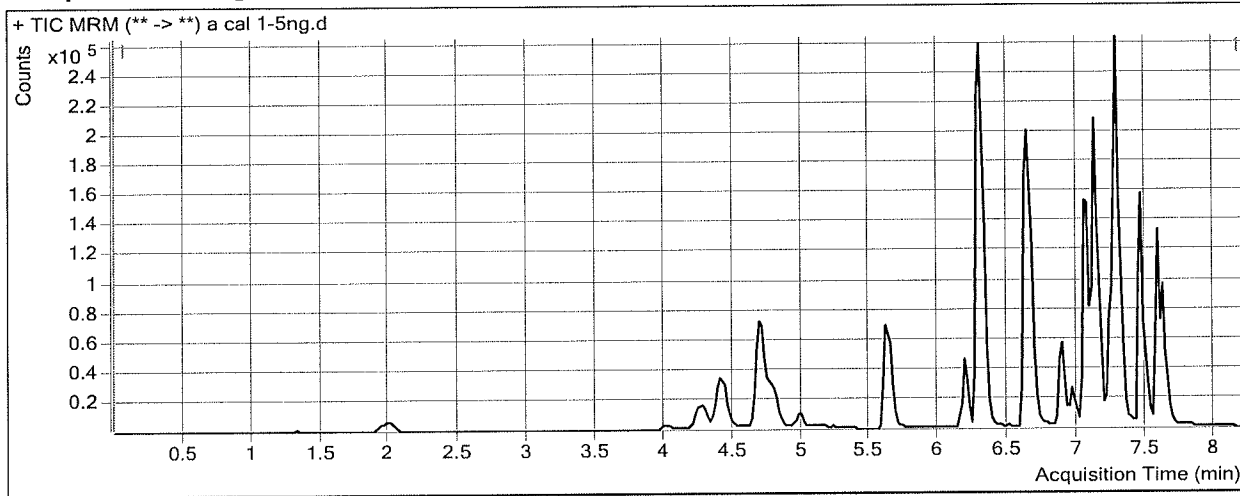
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 12:46 **Data File** a cal 1-5ng.d  
**Sample Type** Calibration **Sample Name** a cal 1-5ng  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-A1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	1032	2015	0.5124	5.8405
Hydromorphone	Hydromorphone-D6	2.009	4457	32877	0.1356	5.0118
Codeine	Codeine-D6	4.095	2055	18042	0.1139	5.0685
Amphetamine	Amphetamine-D11	4.403	46929	72997	0.6429	4.9686
Oxycodone	Oxycodone-D6	4.469	10952	89048	0.1230	4.9576
Hydrocodone	Hydrocodone-D6	4.774	7199	79055	0.0911	4.1742
Norhydrocodone	Norhydrocodone-D3	4.818	620	32071	0.0193	7.9526
Methamphetamine	Methamphetamine-D11	4.802	43363	266634	0.1626	4.8464
6-MAM	6-MAM-D6	4.988	380	28773	0.0132	0.4949
Phentermine	Phentermine-D5	5.666	8135	242673	0.0335	4.9720
Dextroprphan	Dextroprphan-D3	6.183	6781	120308	0.0564	5.1038
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	10531	93307	0.1129	4.3648
Tramadol	Tramadol-13C-D3	6.302	70700	697645	0.1013	4.6631
Doxylamine	Doxylamine-D5	6.662	63777	630731	0.1011	4.8703
Bupropion	Bupropion-D9	6.910	16656	163994	0.1016	5.0322
Meprobamate	Meprobamate-D7	6.992	3803	58694	0.0648	5.2098
Zolpidem	Zolpidem-D6	7.061	46627	476800	0.0978	4.1271
Venlafaxine	Venlafaxine-D6	7.125	53587	510227	0.1050	4.9976
Trazodone	Trazodone-D6	7.255	21487	188860	0.1138	5.0263
Citalopram	Citalopram-D6	7.257	25036	226776	0.1104	5.0600
Dextromethorphan	Dextromethorphan-D3	7.288	5206	50784	0.1025	5.4822
Diphenhydramine	Diphenhydramine-D3	7.291	39125	403581	0.0969	5.1475
Promethazine	Promethazine-D3	7.466	31169	371878	0.0838	5.0112

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

A 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>
Clonazepam	Clonazepam-D4	7.502	4092	13475	0.3037	4.8701
Carisoprodol	Carisoprodol-D7	7.592	20936	254581	0.0822	4.9516
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	1915	17204	0.1113	5.5538
Lorazepam	Clonazepam-D4	7.622	1595	13475	0.1183	6.4426
Alprazolam	Alprazolam-D5	7.626	18910	151365	0.1249	5.0665



# ISP FORENSICS - Cd'A Instrument # 62340

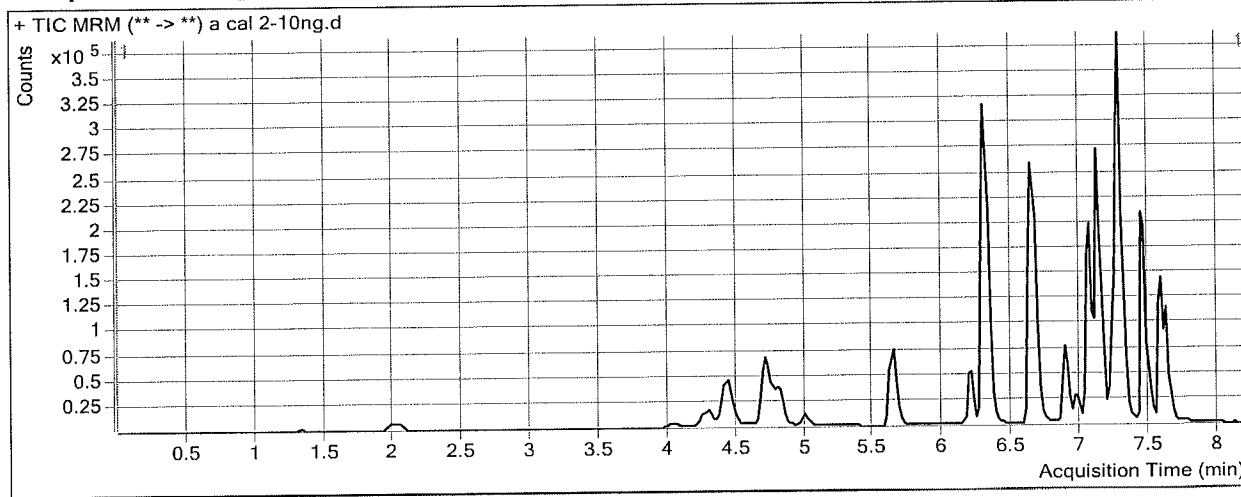
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin	<b>Analyst Name</b>	ISP Tox
<b>Analysis Time</b>	4/27/2018 8:45 AM	<b>Reporter Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 8:49 AM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	4/27/2018 8:45 AM		

### Analysis Info

<b>Acq Time</b>	2018-04-26 13:12	<b>Data File</b>	a 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 10-17.m
<b>Position</b>	P1-B1	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

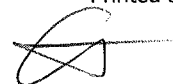
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.348	2326	2605	0.8929	9.3815
Hydromorphone	Hydromorphone-D6	2.049	9788	32152	0.3044	10.1027
Codeine	Codeine-D6	4.115	4891	18400	0.2658	10.8888
Amphetamine	Amphetamine-D11	4.423	82975	80021	1.0369	9.8154
Oxycodone	Oxycodone-D6	4.489	24308	94219	0.2580	10.3428
Hydrocodone	Hydrocodone-D6	4.794	15686	86494	0.1814	9.3076
Norhydrocodone	Norhydrocodone-D3	4.818	1270	34593	0.0367	12.0450
Methamphetamine	Methamphetamine-D11	4.821	69518	237842	0.2923	10.0042
6-MAM	6-MAM-D6	5.008	939	31957	0.0294	1.1108
Phentermine	Phentermine-D5	5.686	16062	256849	0.0625	9.7725
Dextrorphan	Dextrorphan-D3	6.203	16041	140424	0.1142	9.5909
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	22595	100716	0.2243	9.4403
Tramadol	Tramadol-13C-D3	6.322	148135	750631	0.1973	9.7138
Doxylamine	Doxylamine-D5	6.662	146374	690978	0.2118	10.3167
Bupropion	Bupropion-D9	6.910	40993	203054	0.2019	9.9515
Meprobamate	Meprobamate-D7	6.992	8184	60428	0.1354	9.4161
Zolpidem	Zolpidem-D6	7.061	111168	520559	0.2136	9.8802
Venlafaxine	Venlafaxine-D6	7.125	124919	597221	0.2092	9.7713
Trazodone	Trazodone-D6	7.255	55142	251257	0.2195	9.8021
Citalopram	Citalopram-D6	7.257	64941	305104	0.2128	9.6794
Dextromethorphan	Dextromethorphan-D3	7.268	13707	66173	0.2071	10.4054
Diphenhydramine	Diphenhydramine-D3	7.291	97686	537795	0.1816	9.6772
Promethazine	Promethazine-D3	7.466	88793	487000	0.1823	10.1249

**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>
Clonazepam	Clonazepam-D4	7.502	10144	13708	0.7400	10.7065
Carisoprodol	Carisoprodol-D7	7.592	49367	272677	0.1810	10.0620
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	3981	15084	0.2639	11.8975
Lorazepam	Clonazepam-D4	7.602	4155	13708	0.3031	11.4718
Alprazolam	Alprazolam-D5	7.626	39284	159881	0.2457	9.8235



# ISP FORENSICS - Cd'A Instrument # 62340

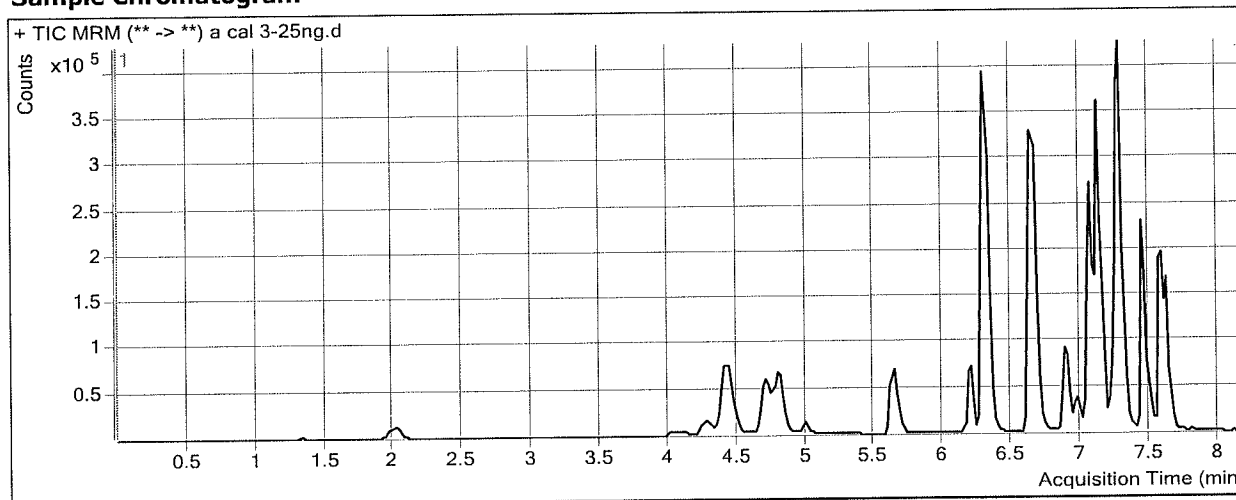
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin		
<b>Analysis Time</b>	4/27/2018 8:45 AM	<b>Analyst Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 8:49 AM	<b>Reporter Name</b>	ISP Tox
<b>Last Calib Update</b>	4/27/2018 8:45 AM	<b>Batch State</b>	Processed

### Analysis Info

<b>Acq Time</b>	2018-04-26 13:37	<b>Data File</b>	a cal 3-25ng.d
<b>Sample Type</b>	Calibration	<b>Sample Name</b>	a cal 3-25ng
<b>Dilution</b>	1	<b>Acq Method</b>	Quant Panel 1a 10-17.m
<b>Position</b>	P1-C1	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

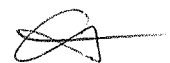
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.348	5700	2443	2.3336	22.7862
Hydromorphone	Hydromorphone-D6	2.029	25448	32091	0.7930	24.8312
Codeine	Codeine-D6	4.115	11361	18592	0.6111	24.1170
Amphetamine	Amphetamine-D11	4.423	160400	68195	2.3521	25.9927
Oxycodone	Oxycodone-D6	4.469	57856	95914	0.6032	24.1125
Hydrocodone	Hydrocodone-D6	4.774	41668	88822	0.4691	25.6695
Norhydrocodone	Norhydrocodone-D3	4.818	3234	33532	0.0965	26.1241
Methamphetamine	Methamphetamine-D11	4.821	154249	206113	0.7484	28.1477
6-MAM	6-MAM-D6	5.008	2070	30768	0.0673	2.5530
Phentermine	Phentermine-D5	5.686	39114	237297	0.1648	26.6998
Dextrorphan	Dextrorphan-D3	6.203	42726	136535	0.3129	25.0002
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	58470	102456	0.5707	25.2098
Tramadol	Tramadol-13C-D3	6.322	371967	748638	0.4969	25.4706
Doxylamine	Doxylamine-D5	6.662	364475	686707	0.5308	26.0047
Bupropion	Bupropion-D9	6.910	99411	200873	0.4949	24.3198
Meprobamate	Meprobamate-D7	6.992	22996	58728	0.3916	24.6674
Zolpidem	Zolpidem-D6	7.061	290174	521397	0.5565	26.9250
Venlafaxine	Venlafaxine-D6	7.125	318711	576846	0.5525	25.5095
Trazodone	Trazodone-D6	7.255	119162	209689	0.5683	25.5631
Citalopram	Citalopram-D6	7.257	139866	249088	0.5615	25.4011
Dextromethorphan	Dextromethorphan-D3	7.268	26453	56104	0.4715	22.8438
Diphenhydramine	Diphenhydramine-D3	7.291	197344	441011	0.4475	23.8949
Promethazine	Promethazine-D3	7.446	173834	381116	0.4561	24.3372

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

pl a cal 3

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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>
Clonazepam	Clonazepam-D4	7.502	22076	12889	1.7128	23.7183
Carisoprodol	Carisoprodol-D7	7.592	131514	275309	0.4777	25.4051
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	9537	17292	0.5516	23.8530
Lorazepam	Clonazepam-D4	7.602	10007	12889	0.7764	24.3524
Alprazolam	Alprazolam-D5	7.626	101054	161816	0.6245	24.7433



# ISP FORENSICS - Cd'A Instrument # 62340

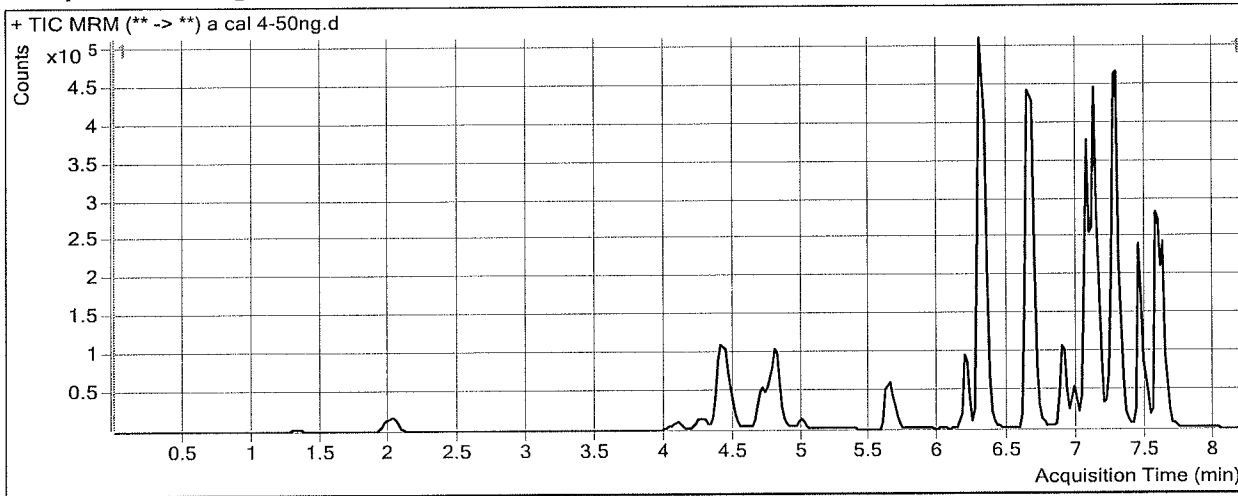
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin		
<b>Analysis Time</b>	4/27/2018 8:45 AM	<b>Analyst Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 8:49 AM	<b>Reporter Name</b>	ISP Tox
<b>Last Calib Update</b>	4/27/2018 8:45 AM	<b>Batch State</b>	Processed

### Analysis Info

<b>Acq Time</b>	2018-04-26 14:03	<b>Data File</b>	a cal 4-50ng.d
<b>Sample Type</b>	Calibration	<b>Sample Name</b>	a cal 4-50ng
<b>Dilution</b>	1	<b>Acq Method</b>	Quant Panel 1a 10-17.m
<b>Position</b>	P1-D1	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.348	11132	2152	5.1720	49.1950
Hydromorphone	Hydromorphone-D6	2.029	50097	32362	1.5480	47.5931
Codeine	Codeine-D6	4.095	22306	17900	1.2462	48.4485
Amphetamine	Amphetamine-D11	4.423	267631	60702	4.4089	51.2933
Oxycodone	Oxycodone-D6	4.469	112624	91002	1.2376	49.4169
Hydrocodone	Hydrocodone-D6	4.774	80633	83855	0.9616	53.6701
Norhydrocodone	Norhydrocodone-D3	4.818	5812	30893	0.1881	47.7264
Methamphetamine	Methamphetamine-D11	4.821	237675	178075	1.3347	51.4721
6-MAM	6-MAM-D6	5.008	3822	31349	0.1219	4.6316
Phentermine	Phentermine-D5	5.686	65868	212115	0.3105	50.8086
Dextrorphan	Dextrorphan-D3	6.183	76948	120677	0.6376	50.1801
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	111928	93707	1.1944	53.6101
Tramadol	Tramadol-13C-D3	6.302	708963	721962	0.9820	50.9928
Doxylamine	Doxylamine-D5	6.662	635881	613571	1.0364	50.8758
Bupropion	Bupropion-D9	6.910	161404	157067	1.0276	50.4424
Meprobamate	Meprobamate-D7	6.992	44533	59418	0.7495	45.9797
Zolpidem	Zolpidem-D6	7.061	530670	504398	1.0521	51.5525
Venlafaxine	Venlafaxine-D6	7.125	560480	514781	1.0888	50.0914
Trazodone	Trazodone-D6	7.255	187593	171455	1.0941	49.3235
Citalopram	Citalopram-D6	7.257	215590	192975	1.1172	50.4570
Dextromethorphan	Dextromethorphan-D3	7.268	40024	38789	1.0318	49.2083
Diphenhydramine	Diphenhydramine-D3	7.291	303521	346015	0.8772	46.8766
Promethazine	Promethazine-D3	7.446	258583	279284	0.9259	48.7220



**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>
Clonazepam	Clonazepam-D4	7.502	47670	13239	3.6009	48.9727
Carisoprodol	Carisoprodol-D7	7.592	253256	257821	0.9823	51.5034
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	16835	17459	0.9643	41.0071
Lorazepam	Clonazepam-D4	7.602	18723	13239	1.4143	41.7137
Alprazolam	Alprazolam-D5	7.626	193560	157855	1.2262	48.4423



# ISP FORENSICS - Cd'A Instrument # 62340

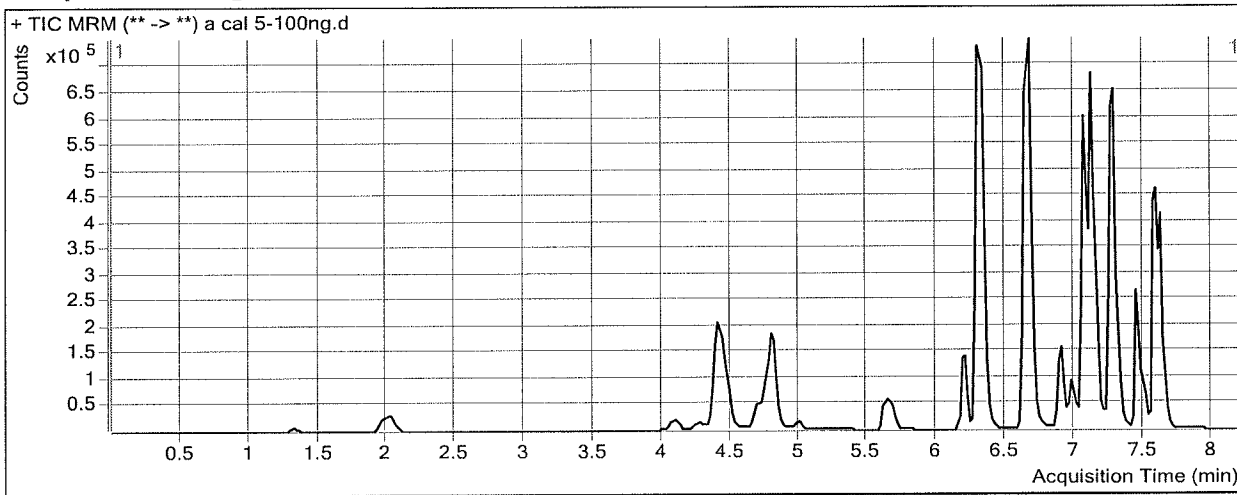
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 14:28 **Data File** a cal 5-100ng.d  
**Sample Type** Calibration **Sample Name** a cal 5-100ng  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-E1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	22469	2117	10.6119	99.8096
Hydromorphone	Hydromorphone-D6	2.029	105638	33029	3.1983	97.3451
Codeine	Codeine-D6	4.095	46160	17905	2.5780	99.4745
Amphetamine	Amphetamine-D11	4.423	528077	57459	9.1906	110.1104
Oxycodone	Oxycodone-D6	4.469	239356	93792	2.5520	101.8451
Hydrocodone	Hydrocodone-D6	4.774	164243	85067	1.9307	108.7758
Norhydrocodone	Norhydrocodone-D3	4.818	11557	31021	0.3726	91.1795
Methamphetamine	Methamphetamine-D11	4.821	416787	153072	2.7228	106.6933
6-MAM	6-MAM-D6	5.008	7956	30932	0.2572	9.7793
Phentermine	Phentermine-D5	5.686	127141	200837	0.6331	104.1788
Dextrophan	Dextrophan-D3	6.203	144261	115597	1.2480	97.5105
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	221411	92898	2.3834	107.7440
Tramadol	Tramadol-13C-D3	6.322	1430996	713259	2.0063	104.8787
Doxylamine	Doxylamine-D5	6.662	1274843	614044	2.0761	102.0236
Bupropion	Bupropion-D9	6.910	279267	134450	2.0771	101.9062
Meprobamate	Meprobamate-D7	6.992	91100	59975	1.5190	91.7985
Zolpidem	Zolpidem-D6	7.061	1082312	500210	2.1637	106.7970
Venlafaxine	Venlafaxine-D6	7.125	1074836	488343	2.2010	101.0739
Trazodone	Trazodone-D6	7.255	323161	105799	3.0545	137.9019
Citalopram	Citalopram-D6	7.257	347168	157451	2.2049	99.5041
Dextromethorphan	Dextromethorphan-D3	7.268	65231	30293	2.1533	101.9786
Diphenhydramine	Diphenhydramine-D3	7.291	564706	289196	1.9527	104.3960
Promethazine	Promethazine-D3	7.446	386749	204173	1.8942	98.9878

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

*pl a cal 5*

<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>
Clonazepam	Clonazepam-D4	7.502	92185	11805	7.8088	105.2567
Carisoprodol	Carisoprodol-D7	7.592	483919	247245	1.9572	101.9294
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	36253	16373	2.2142	92.9593
Lorazepam	Clonazepam-D4	7.602	36535	11805	3.0948	87.4517
Alprazolam	Alprazolam-D5	7.626	384045	150276	2.5556	100.8049



# ISP FORENSICS - Cd'A Instrument # 62340

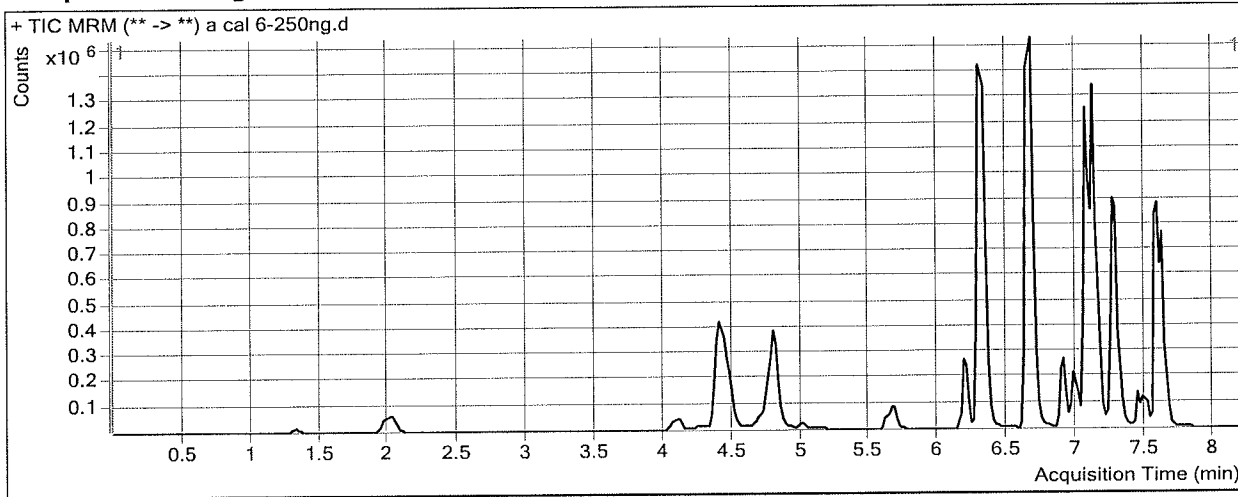
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin  
**Analysis Time** 4/27/2018 8:45 AM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 8:49 AM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 8:45 AM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 14:54 **Data File** a cal 6-250ng.d  
**Sample Type** Calibration **Sample Name** a cal 6-250ng  
**Dilution** 1 **Acq Method** Quant Panel 1a 10-17.m  
**Position** P1-F1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	50032	1836	27.2573	254.6839
Hydromorphone	Hydromorphone-D6	2.029	229128	28859	7.9397	240.2820
Codeine	Codeine-D6	4.095	109417	17260	6.3395	243.5823
Amphetamine	Amphetamine-D11	4.423	1144823	52178	21.9407	266.9446
Oxycodone	Oxycodone-D6	4.469	582479	89648	6.4974	259.2199
Hydrocodone	Hydrocodone-D6	4.774	377961	81353	4.6459	263.1567
Norhydrocodone	Norhydrocodone-D3	4.818	26644	26493	1.0057	240.3637
Methamphetamine	Methamphetamine-D11	4.821	855038	131232	6.5155	257.5695
6-MAM	6-MAM-D6	5.008	18827	30230	0.6228	23.6898
Phentermine	Phentermine-D5	5.686	272252	177051	1.5377	253.8731
Dextroprphan	Dextroprphan-D3	6.183	314351	94988	3.3094	257.3718
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	465139	80502	5.7780	262.3024
Tramadol	Tramadol-13C-D3	6.302	3399959	701844	4.8443	254.1836
Doxylamine	Doxylamine-D5	6.662	2977834	591553	5.0339	247.5196
Bupropion	Bupropion-D9	6.910	552453	112612	4.9058	240.6155
Meprobamate	Meprobamate-D7	6.992	271845	61451	4.4238	264.7662
Zolpidem	Zolpidem-D6	7.061	2572205	507793	5.0655	251.0048
Venlafaxine	Venlafaxine-D6	7.125	2509866	459892	5.4575	250.3486
Trazodone	Trazodone-D6	7.255	603966	99983	6.0407	272.8325
Citalopram	Citalopram-D6	7.257	522060	92866	5.6216	253.5661
Dextromethorphan	Dextromethorphan-D3	7.268	71780	14460	4.9639	234.2217
Diphenhydramine	Diphenhydramine-D3	7.291	747247	171995	4.3446	232.3204
Promethazine	Promethazine-D3	7.446	223580	47973	4.6606	242.5858

**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
Clonazepam	Clonazepam-D4	7.502	190727	9903	19.2604	258.4318
Carisoprodol	Carisoprodol-D7	7.592	1054832	222242	4.7463	246.1841
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	85232	14736	5.7841	241.3397
Lorazepam	Clonazepam-D4	7.602	79381	9903	8.0162	221.3964
Alprazolam	Alprazolam-D5	7.626	817839	129142	6.3328	249.5814



# ISP FORENSICS - Cd'A Instrument # 62340

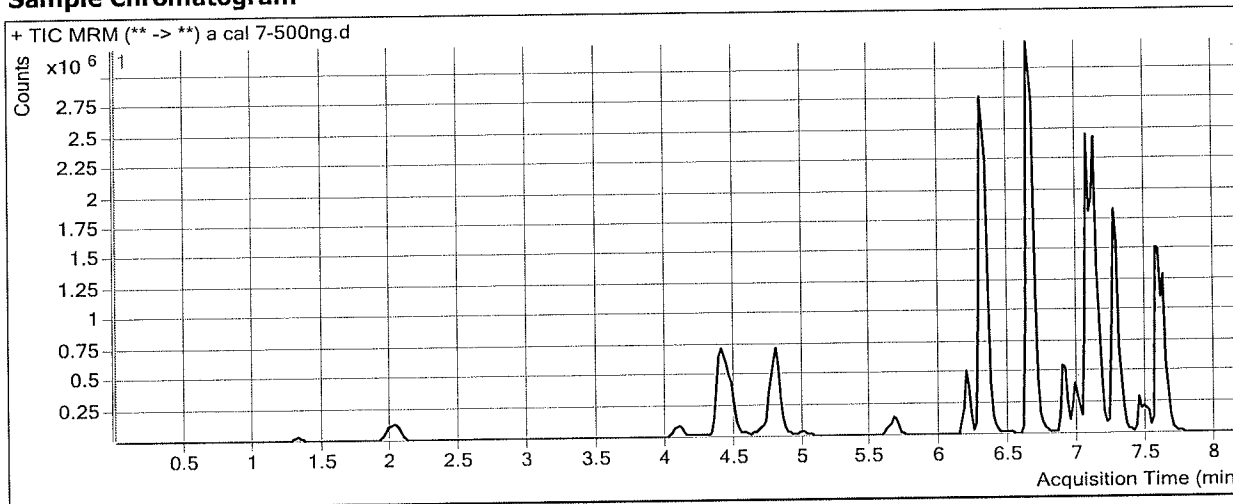
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin	<b>Analyst Name</b>	ISP Tox
<b>Analysis Time</b>	4/27/2018 8:45 AM	<b>Reporter Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 8:49 AM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	4/27/2018 8:45 AM		

### Analysis Info

<b>Acq Time</b>	2018-04-26 15:19	<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 10-17.m
<b>Position</b>	P1-G1	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	107053	2066	51.8257	483.2768
Hydromorphone	Hydromorphone-D6	2.029	515857	29797	17.3126	522.8464
Codeine	Codeine-D6	4.095	210485	16608	12.6739	486.2656
Amphetamine	Amphetamine-D11	4.423	1867188	49461	37.7507	461.4176
Oxycodone	Oxycodone-D6	4.469	1212540	96009	12.6294	503.8099
Hydrocodone	Hydrocodone-D6	4.774	729449	79825	9.1381	518.5753
Norhydrocodone	Norhydrocodone-D3	4.818	50467	23477	2.1497	509.9113
Methamphetamine	Methamphetamine-D11	4.802	1629929	141987	11.4794	455.0398
6-MAM	6-MAM-D6	5.008	38075	29042	1.3110	49.8752
Phentermine	Phentermine-D5	5.666	490616	164584	2.9809	492.6911
Dextroprphan	Dextroprphan-D3	6.183	593191	93397	6.3513	493.2664
7-aminoclonazepam	7-Aminoclonazepam-D4	6.312	876566	79949	10.9640	498.4304
Tramadol	Tramadol-13C-D3	6.302	6795655	711654	9.5491	501.6945
Doxylamine	Doxylamine-D5	6.641	6185021	623795	9.9151	487.6313
Bupropion	Bupropion-D9	6.910	1227260	116496	10.5348	516.6404
Meprobamate	Meprobamate-D7	6.992	534556	61346	8.7137	520.2102
Zolpidem	Zolpidem-D6	7.061	5295516	508493	10.4141	516.8170
Venlafaxine	Venlafaxine-D6	7.125	4961741	463584	10.7030	490.7954
Trazodone	Trazodone-D6	7.255	1372289	122075	11.2413	507.8248
Citalopram	Citalopram-D6	7.237	1019329	93104	10.9483	493.7505
Dextromethorphan	Dextromethorphan-D3	7.268	163286	15619	10.4545	492.5669
Diphenhydramine	Diphenhydramine-D3	7.291	1650004	167835	9.8311	525.7517
Promethazine	Promethazine-D3	7.446	511818	52245	9.7965	509.1884

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

*pl a cal 7*

<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>
Clonazepam	Clonazepam-D4	7.482	349665	9456	36.9782	495.4224
Carisoprodol	Carisoprodol-D7	7.592	1886656	199149	9.4736	490.6843
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	169424	13918	12.1731	506.8922
Lorazepam	Clonazepam-D4	7.602	154761	9456	16.3665	448.6609
Alprazolam	Alprazolam-D5	7.626	1462922	112356	13.0204	512.9887



# ISP FORENSICS - Cd'A Instrument # 62340

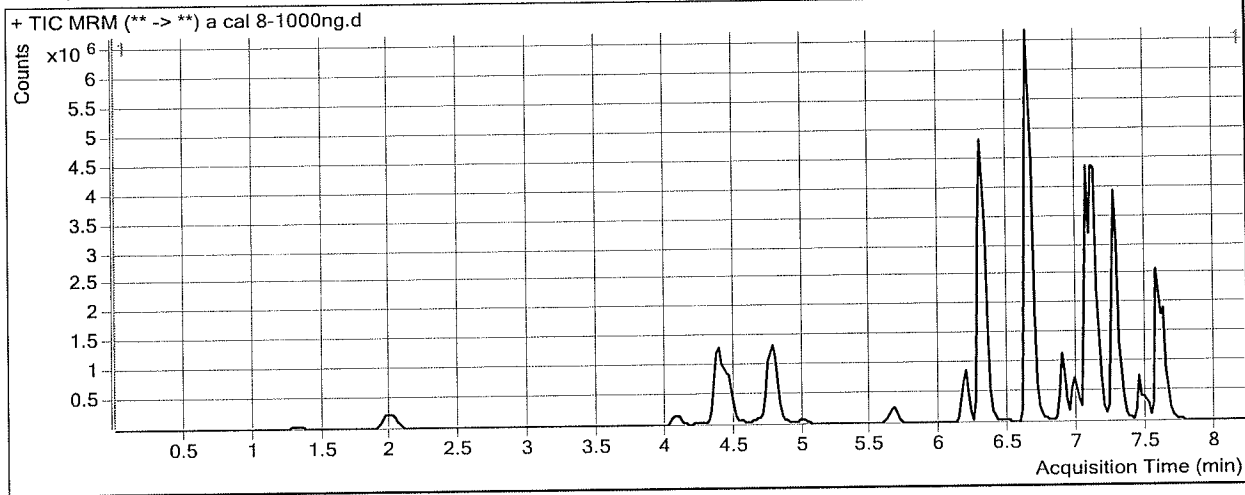
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1a.batch.bin		
<b>Analysis Time</b>	4/27/2018 8:45 AM	<b>Analyst Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 8:49 AM	<b>Reporter Name</b>	ISP Tox
<b>Last Calib Update</b>	4/27/2018 8:45 AM	<b>Batch State</b>	Processed

### Analysis Info

<b>Acq Time</b>	2018-04-26 15:44	<b>Data File</b>	a cal 8-1000ng.d
<b>Sample Type</b>	Calibration	<b>Sample Name</b>	a cal 8-1000ng
<b>Dilution</b>	1	<b>Acq Method</b>	Quant Panel 1a 10-17.m
<b>Position</b>	P1-H1	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.328	204883	1880	108.9766	1015.0265
Hydromorphone	Hydromorphone-D6	2.009	997543	28342	35.1963	1061.9815
Codeine	Codeine-D6	4.076	396515	14872	26.6615	1022.1547
Amphetamine	Amphetamine-D11	4.403	3446646	48709	70.7592	867.4424
Oxycodone	Oxycodone-D6	4.449	2381308	98018	24.2945	969.1068
Hydrocodone	Hydrocodone-D6	4.754	1326593	78762	16.8431	956.6707
Norhydrocodone	Norhydrocodone-D3	4.799	90734	19364	4.6856	1107.4352
Methamphetamine	Methamphetamine-D11	4.802	3246803	148583	21.8517	867.6632
6-MAM	6-MAM-D6	4.988	76659	28633	2.6773	101.8603
Phentermine	Phentermine-D5	5.666	945513	173436	5.4516	901.5259
Dextrorphan	Dextrorphan-D3	6.183	1116199	84475	13.2134	1025.4174
7-aminoclonazepam	7-Aminoclonazepam-D4	6.292	1457111	67720	21.5166	978.8982
Tramadol	Tramadol-13C-D3	6.302	12817469	681757	18.8006	988.4028
Doxylamine	Doxylamine-D5	6.641	12660127	654785	19.3348	950.9919
Bupropion	Bupropion-D9	6.890	2390243	116985	20.4321	1001.9687
Meprobamate	Meprobamate-D7	6.992	1103289	60197	18.3279	1092.6859
Zolpidem	Zolpidem-D6	7.061	9732264	496763	19.5914	972.8964
Venlafaxine	Venlafaxine-D6	7.125	9886918	449951	21.9733	1007.4123
Trazodone	Trazodone-D6	7.255	3262128	164021	19.8885	898.5467
Citalopram	Citalopram-D6	7.237	1890265	85406	22.1327	998.0651
Dextromethorphan	Dextromethorphan-D3	7.268	351156	16157	21.7340	1023.2931
Diphenhydramine	Diphenhydramine-D3	7.291	3543715	174720	20.2823	1084.7001
Promethazine	Promethazine-D3	7.446	1342346	65855	20.3835	1058.7490



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

*pl a cal 8*

<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>
Clonazepam	Clonazepam-D4	7.482	565741	7972	70.9635	950.0045
Carisoprodol	Carisoprodol-D7	7.572	3001854	159878	18.7759	971.8089
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.560	331995	13588	24.4338	1016.4974
Lorazepam	Clonazepam-D4	7.602	320832	7972	40.2434	1098.5105
Alprazolam	Alprazolam-D5	7.626	2356456	91599	25.7258	1013.4231



# ISP FORENSICS - Cd'A Instrument # 62340

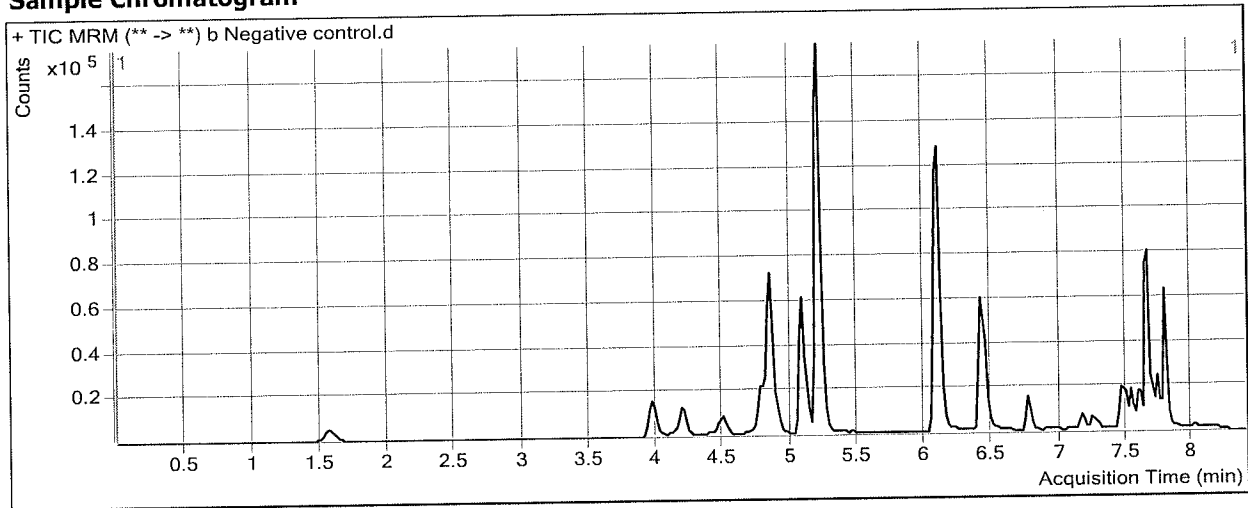
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 16:35 **Data File** b Negative control.d  
**Sample Type** Sample **Sample Name** b Negative control  
**Dilution** 1 **Acq Method** Quant Panel 1b 10-2017.m  
**Position** P1-E2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



# ISP FORENSICS - Cd'A Instrument # 62340

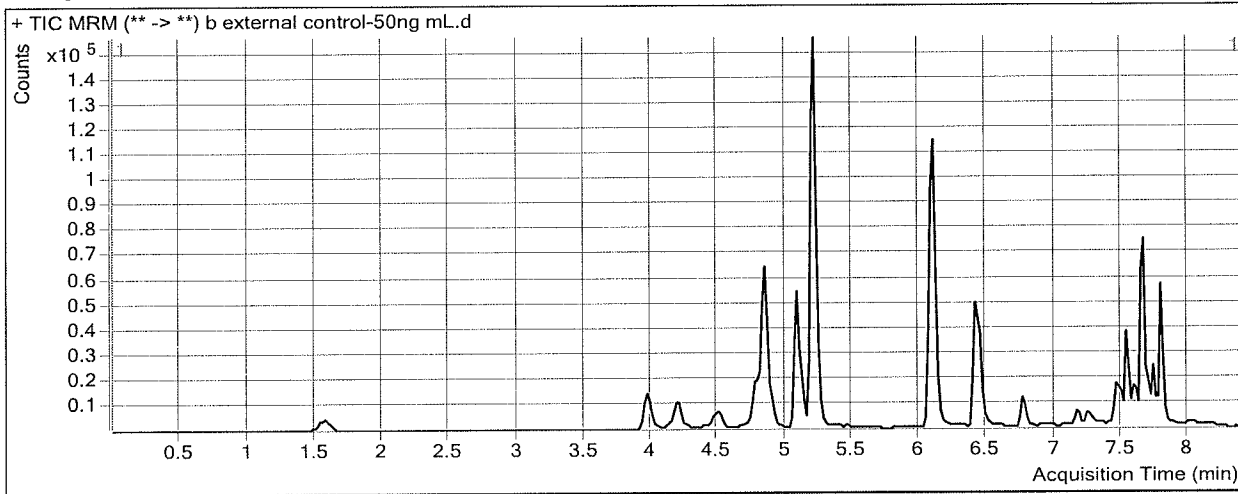
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 17:01 **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 10-2017.m  
**Position** P1-F2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28: external control p1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	27555	29445	0.9358	52.7282
Sertraline	Sertraline-D3	7.645	2497	2666	0.9369	42.8619

# ISP FORENSICS - Cd'A Instrument # 62340

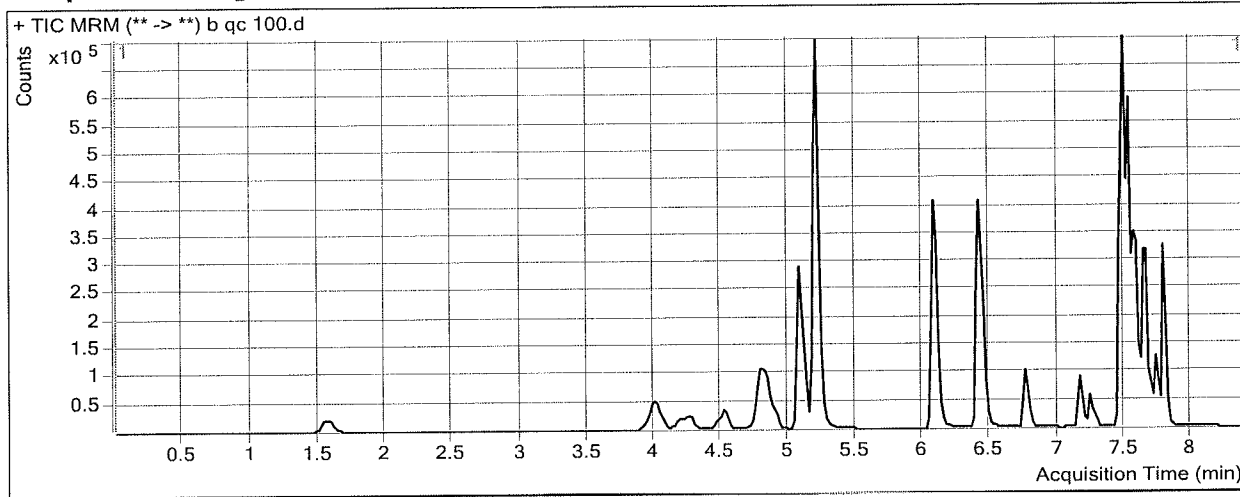
## Multi-Drug Confirmatory Analysis Report

Batch Data Path D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
Analysis Time 4/27/2018 3:30 PM Analyst Name ISP Tox  
Report Time 4/27/2018 3:32 PM Reporter Name ISP Tox  
Last Calib Update 4/27/2018 3:30 PM Batch State Processed

### Analysis Info

Acq Time 2018-04-26 19:45 Data File b qc 100.d  
Sample Type QC Sample Name b qc 100  
Dilution 1 Acq Method Quant Panel 1b 10-2017.m  
Position P1-B2 Sample Info  
Inj Vol -1 Comment AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	433706	215506	2.0125	112.9346
Sertraline	Sertraline-D3	7.645	133361	54915	2.4285	109.0714
Nordiazepam	Nordiazepam-D5	7.735	132408	38752	3.4168	99.9069
Diazepam	Diazepam-D5	7.790	345204	126504	2.7288	98.0081

# ISP FORENSICS - Cd'A Instrument # 62340

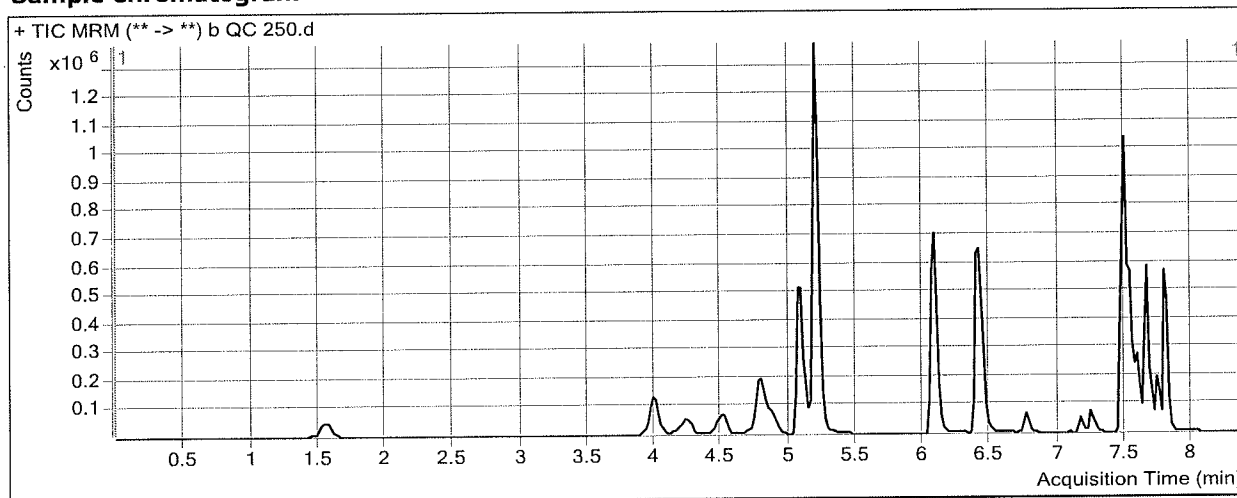
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 20:10 **Data File** b QC 250.d  
**Sample Type** QC **Sample Name** b QC 250  
**Dilution** 1 **Acq Method** Quant Panel 1b 10-2017.m  
**Position** P1-C2 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	442173	97112	4.5532	255.0088
Sertraline	Sertraline-D3	7.645	103276	18840	5.4817	244.5990
Nordiazepam	Nordiazepam-D5	7.735	261079	32637	7.9995	232.6150
Diazepam	Diazepam-D5	7.790	782465	118078	6.6267	237.0108

# ISP FORENSICS - Cd'A Instrument # 62340

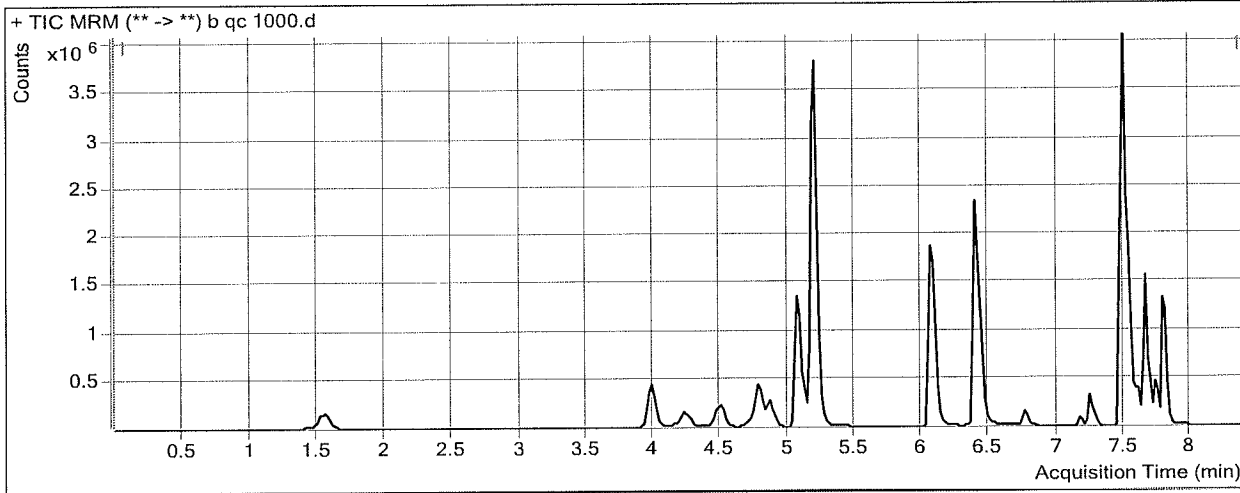
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin		
<b>Analysis Time</b>	4/27/2018 3:30 PM	<b>Analyst Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 3:32 PM	<b>Reporter Name</b>	ISP Tox
<b>Last Calib Update</b>	4/27/2018 3:30 PM	<b>Batch State</b>	Processed

### Analysis Info

<b>Acq Time</b>	2018-04-26 20:36	<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 10-2017.m
<b>Position</b>	P1-D2	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	1443385	81443	17.7226	991.4200
Sertraline	Sertraline-D3	7.645	111415	2908	38.3184	1702.1701
Nordiazepam	Nordiazepam-D5	7.735	655831	19552	33.5433	972.3301
Diazepam	Diazepam-D5	7.790	2185446	81321	26.8744	959.0706

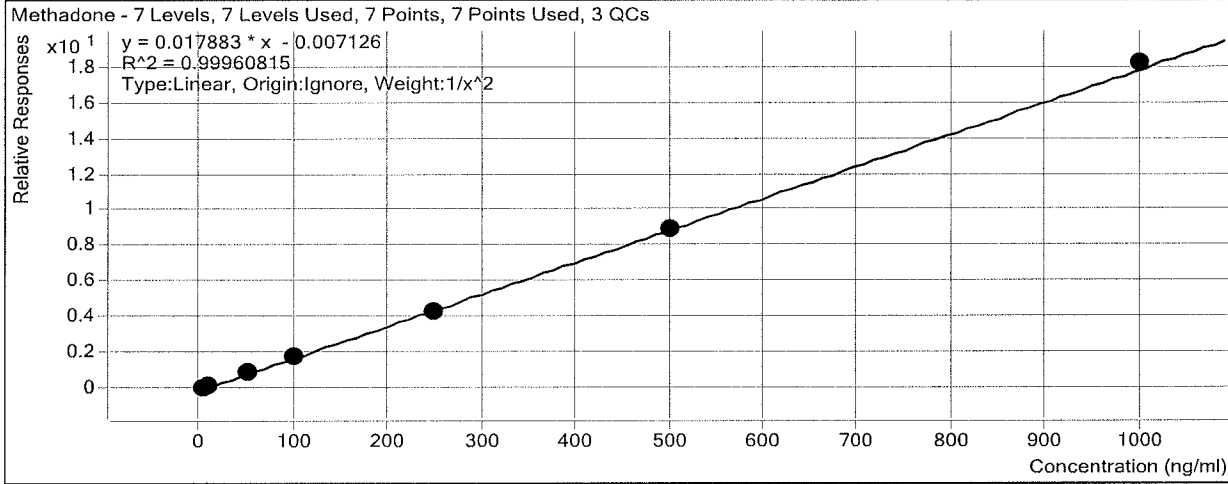
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
4/27/2018 3:30 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	5.0	100.8
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.8	98.2
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.1	100.2
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	101.8	101.8
b qc 100	5	<input checked="" type="checkbox"/>	100	112.9	112.9
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	242.6	97.0
b QC 250	6	<input checked="" type="checkbox"/>	250	255.0	102.0
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	501.7	100.3
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	1015.5	101.6
b qc 1000	8	<input checked="" type="checkbox"/>	1000	991.4	99.1

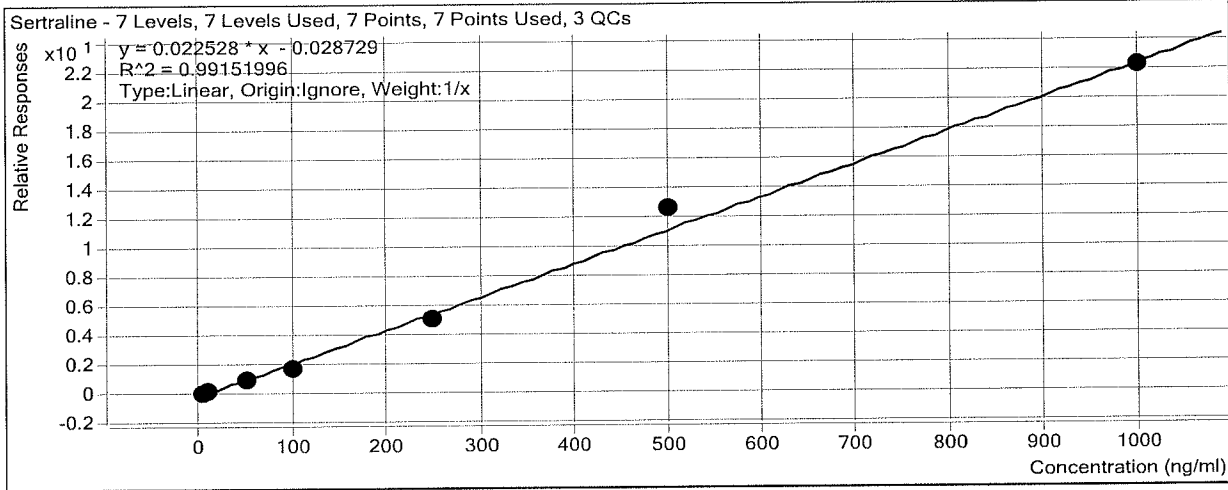
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
4/27/2018 3:30 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	6.0	119.8
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.6	106.5
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	47.3	94.6
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	78.4	78.4
b qc 100	5	<input checked="" type="checkbox"/>	100	109.1	109.1
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	224.6	89.9
b QC 250	6	<input checked="" type="checkbox"/>	250	244.6	97.8
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	560.7	112.1
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	987.3	98.7
b qc 1000	8	<input checked="" type="checkbox"/>	1000	1702.2	170.2



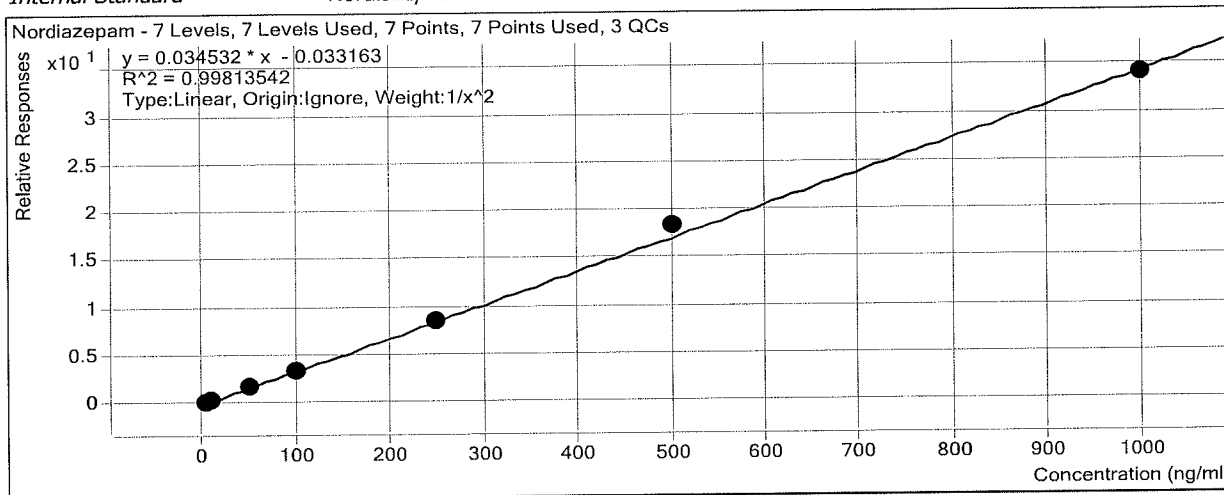
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
4/27/2018 3:30 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	5.0	99.7
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	10.2	101.7
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	46.9	93.7
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	99.3	99.3
b qc 100	5	<input checked="" type="checkbox"/>	100	99.9	99.9
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	250.4	100.2
b QC 250	6	<input checked="" type="checkbox"/>	250	232.6	93.0
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	533.2	106.6
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	986.9	98.7
b qc 1000	8	<input checked="" type="checkbox"/>	1000	972.3	97.2

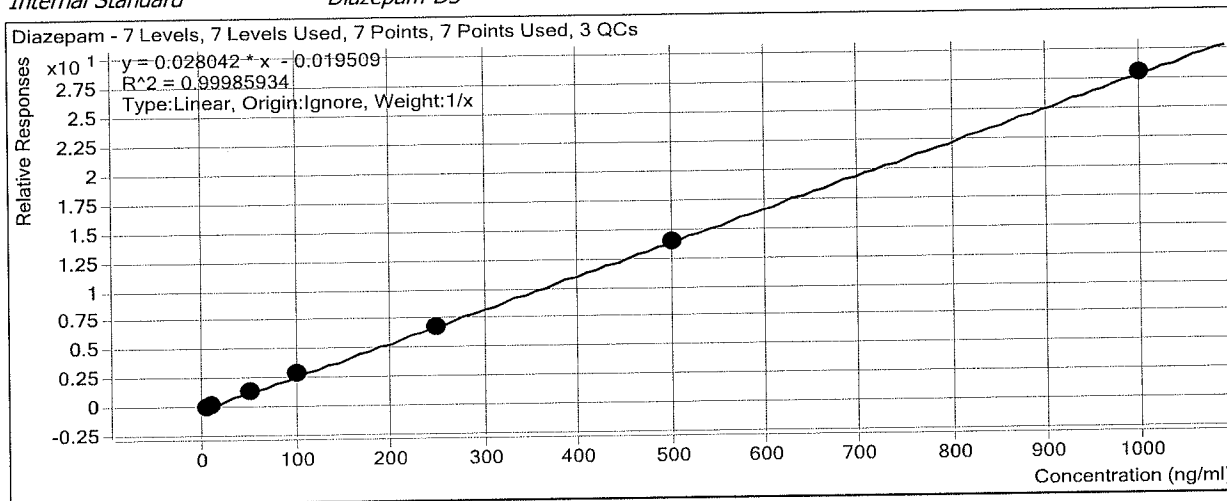
# ISP Forensics Calibration Curve Report

**Batch Data Path**  
**Last Calib Update**

D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
4/27/2018 3:30 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	5.3	106.1
b cal 2-10ng	2	<input checked="" type="checkbox"/>	10	9.1	91.0
b cal 4-50ng	4	<input checked="" type="checkbox"/>	50	50.8	101.5
b cal 5-100ng	5	<input checked="" type="checkbox"/>	100	102.8	102.8
b qc 100	5	<input checked="" type="checkbox"/>	100	98.0	98.0
b cal 6-250ng	6	<input checked="" type="checkbox"/>	250	246.2	98.5
b QC 250	6	<input checked="" type="checkbox"/>	250	237.0	94.8
b cal 7-500ng	7	<input checked="" type="checkbox"/>	500	501.1	100.2
b cal 8-1000ng	8	<input checked="" type="checkbox"/>	1000	999.8	100.0
b qc 1000	8	<input checked="" type="checkbox"/>	1000	959.1	95.9

# ISP FORENSICS - Cd'A Instrument # 62340

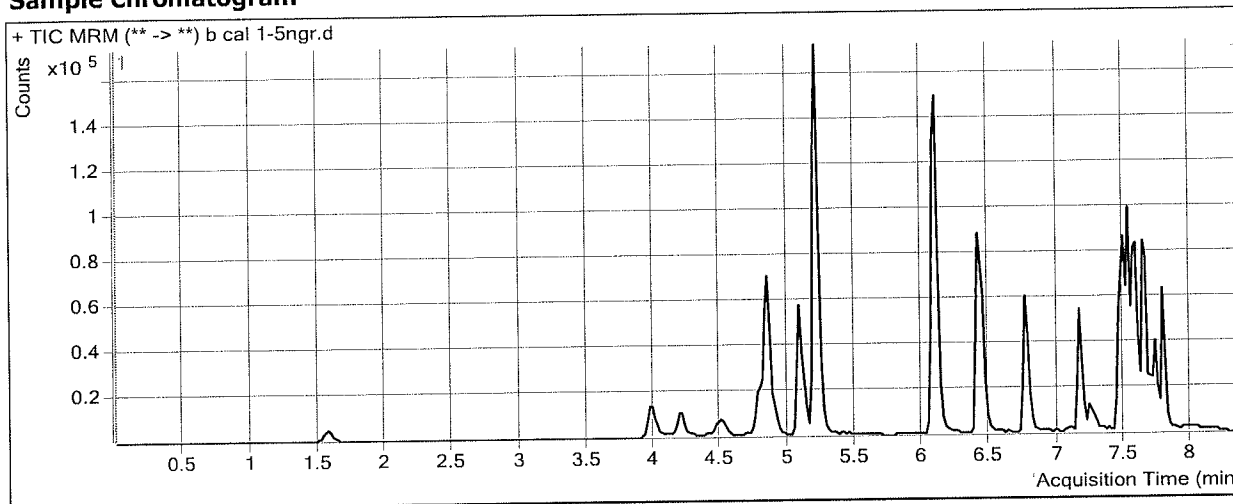
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin		
<b>Analysis Time</b>	4/27/2018 3:30 PM	<b>Analyst Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 3:32 PM	<b>Reporter Name</b>	ISP Tox
<b>Last Calib Update</b>	4/27/2018 3:30 PM	<b>Batch State</b>	Processed

### Analysis Info

<b>Acq Time</b>	2018-04-26 17:13	<b>Data File</b>	b cal 1-5ngr.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 10-2017.m
<b>Position</b>	P1-A1	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	13333	160568	0.0830	5.0418
Sertraline	Sertraline-D3	7.645	4572	43042	0.1062	5.9899
Nordiazepam	Nordiazepam-D5	7.735	6099	43866	0.1390	4.9868
Diazepam	Diazepam-D5	7.790	13366	103459	0.1292	5.3027

# ISP FORENSICS - Cd'A Instrument # 62340

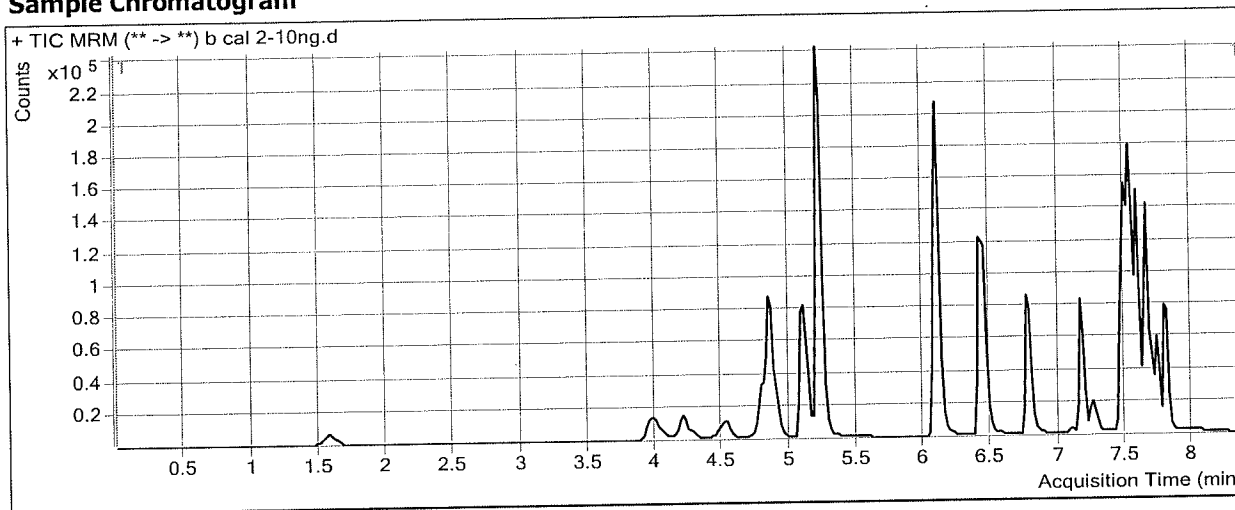
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 13:25 **Data File** b cal 2-10ng.d  
**Sample Type** Calibration **Sample Name** b cal 2-10ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 10-2017.m  
**Position** P1-B1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.543	47278	280609	0.1685	9.8198
Sertraline	Sertraline-D3	7.645	12893	61078	0.2111	10.6451
Nordiazepam	Nordiazepam-D5	7.755	17807	55976	0.3181	10.1724
Diazepam	Diazepam-D5	7.810	35820	152040	0.2356	9.0974

# ISP FORENSICS - Cd'A Instrument # 62340

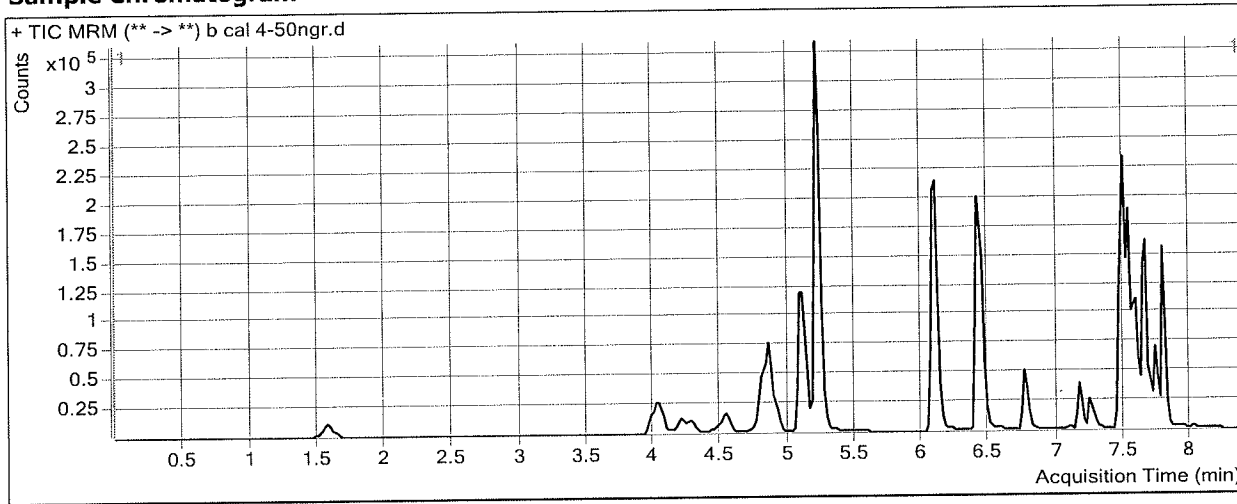
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 17:39 **Data File** b cal 4-50ngr.d  
**Sample Type** Calibration **Sample Name** b cal 4-50ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 10-2017.m  
**Position** P1-D1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	111219	125106	0.8890	50.1099
Sertraline	Sertraline-D3	7.645	29890	28826	1.0369	47.3026
Nordiazepam	Nordiazepam-D5	7.735	61082	38538	1.5850	46.8595
Diazepam	Diazepam-D5	7.790	139877	99649	1.4037	50.7531

# ISP FORENSICS - Cd'A Instrument # 62340

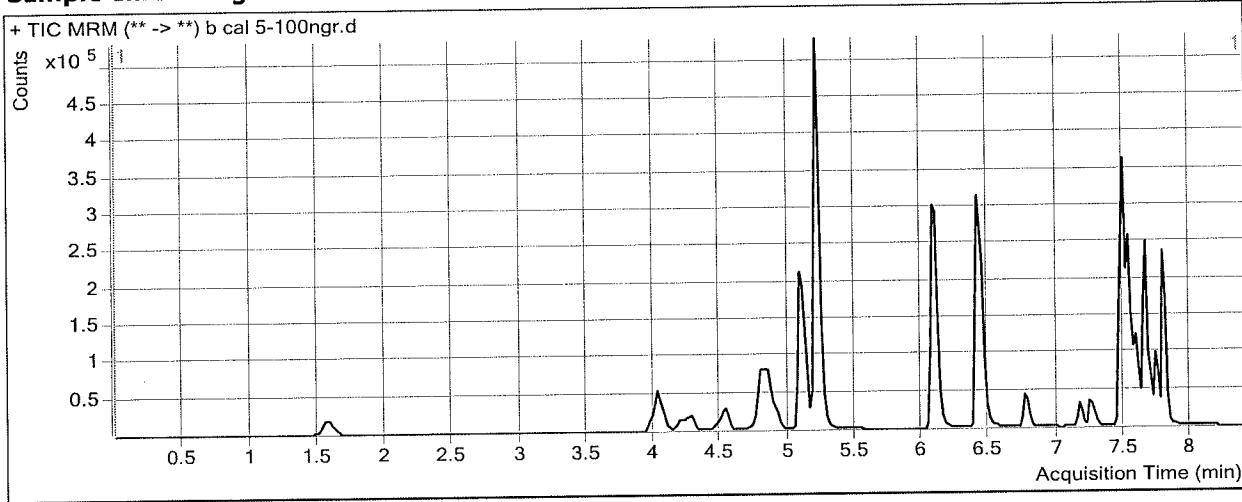
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 17:51 **Data File** b cal 5-100ngr.d  
**Sample Type** Calibration **Sample Name** b cal 5-100ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 10-2017.m  
**Position** P1-E1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	186592	102873	1.8138	101.8244
Sertraline	Sertraline-D3	7.645	33431	19235	1.7380	78.4242
Nordiazepam	Nordiazepam-D5	7.735	115804	34094	3.3966	99.3218
Diazepam	Diazepam-D5	7.790	277496	96930	2.8628	102.7883

# ISP FORENSICS - Cd'A Instrument # 62340

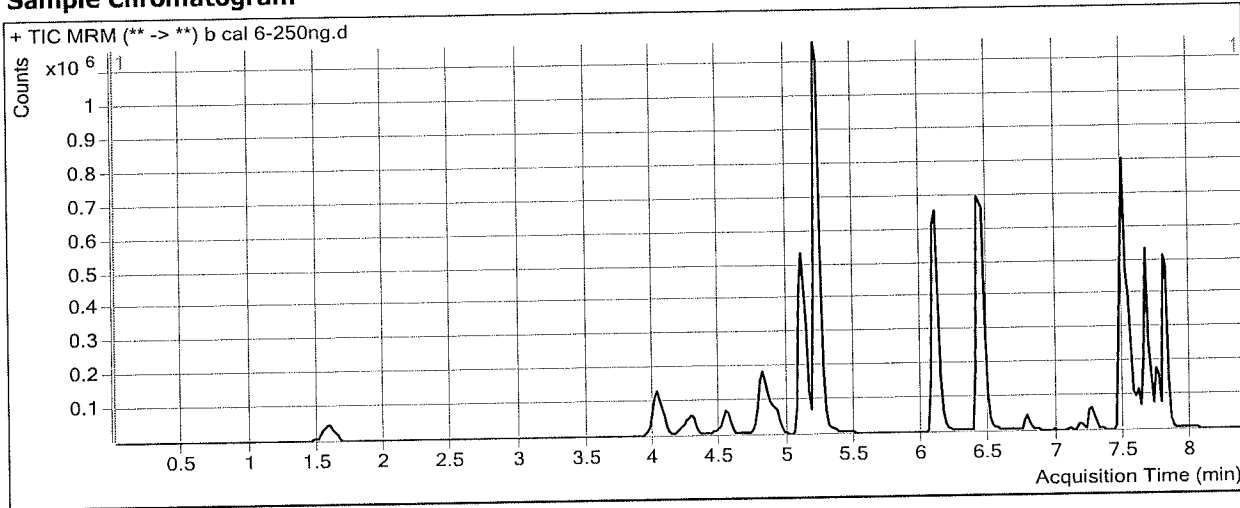
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 15:06 **Data File** b cal 6-250ng.d  
**Sample Type** Calibration **Sample Name** b cal 6-250ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 10-2017.m  
**Position** P1-F1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	315424	72826	4.3312	242.5925
Sertraline	Sertraline-D3	7.645	25153	4999	5.0320	224.6359
Nordiazepam	Nordiazepam-D5	7.735	260868	30281	8.6150	250.4387
Diazepam	Diazepam-D5	7.790	785898	114155	6.8845	246.2047

# ISP FORENSICS - Cd'A Instrument # 62340

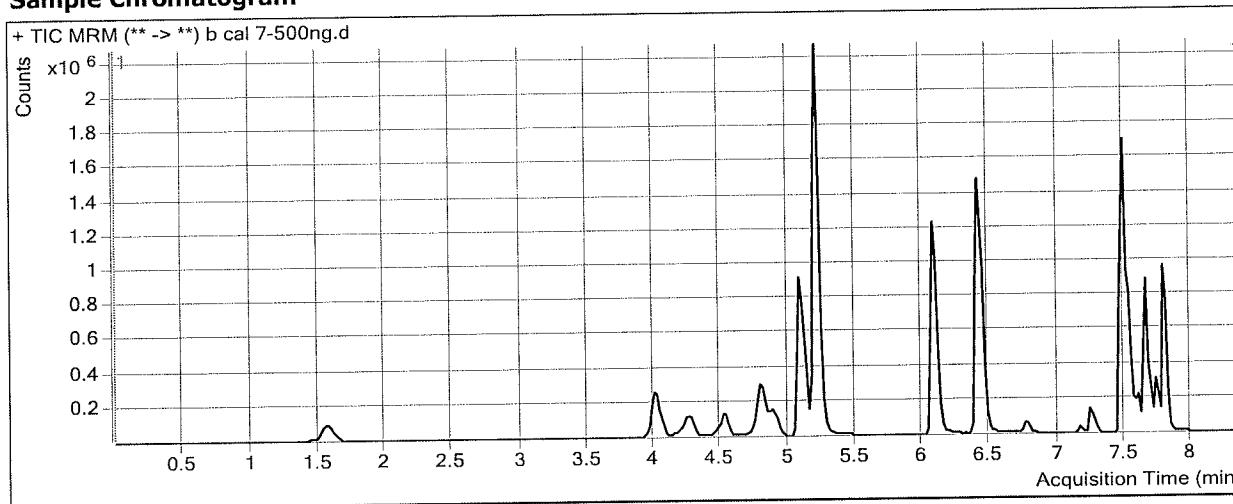
## Multi-Drug Confirmatory Analysis Report

<b>Batch Data Path</b>	D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin	<b>Analyst Name</b>	ISP Tox
<b>Analysis Time</b>	4/27/2018 3:30 PM	<b>Reporter Name</b>	ISP Tox
<b>Report Time</b>	4/27/2018 3:32 PM	<b>Batch State</b>	Processed
<b>Last Calib Update</b>	4/27/2018 3:30 PM		

### Analysis Info

<b>Acq Time</b>	2018-04-26 15:32	<b>Data File</b>	b cal 7-500ng.d
<b>Sample Type</b>	Calibration	<b>Sample Name</b>	b cal 7-500ng
<b>Dilution</b>	1	<b>Acq Method</b>	Quant Panel 1b 10-2017.m
<b>Position</b>	P1-G1	<b>Sample Info</b>	
<b>Inj Vol</b>	-1	<b>Comment</b>	AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	644521	71901	8.9640	501.6530
Sertraline	Sertraline-D3	7.645	54127	4295	12.6023	560.6732
Nordiazepam	Nordiazepam-D5	7.735	427847	23279	18.3789	533.1883
Diazepam	Diazepam-D5	7.790	1442590	102808	14.0319	501.0912



# ISP FORENSICS - Cd'A Instrument # 62340

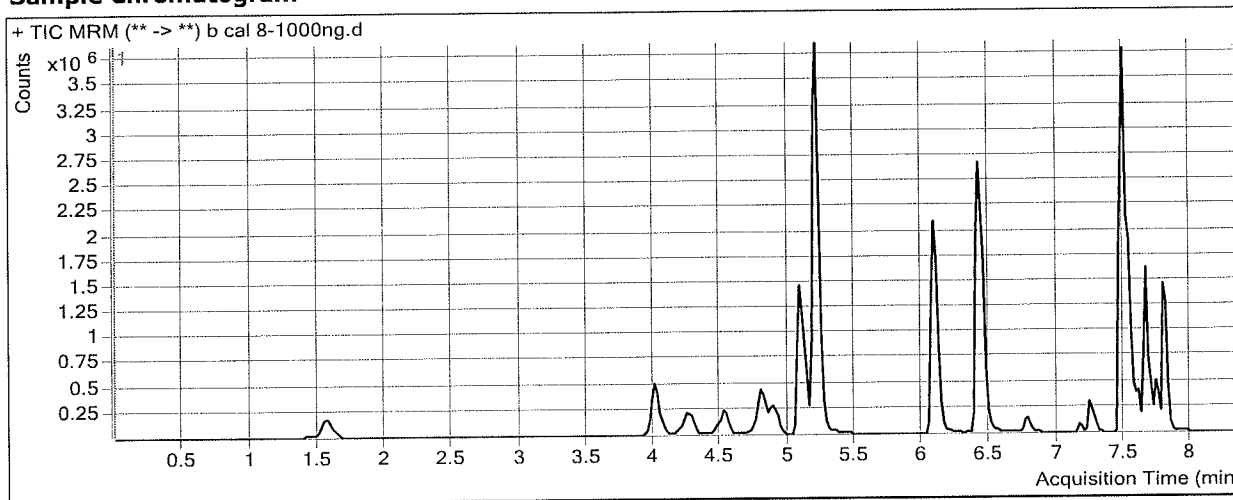
## Multi-Drug Confirmatory Analysis Report

**Batch Data Path** D:\2018 Data\04252018 mdq\QuantResults\mdq p1b.batch.bin  
**Analysis Time** 4/27/2018 3:30 PM **Analyst Name** ISP Tox  
**Report Time** 4/27/2018 3:32 PM **Reporter Name** ISP Tox  
**Last Calib Update** 4/27/2018 3:30 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-04-26 15:57 **Data File** b cal 8-1000ng.d  
**Sample Type** Calibration **Sample Name** b cal 8-1000ng  
**Dilution** 1 **Acq Method** Quant Panel 1b 10-2017.m  
**Position** P1-H1 **Sample Info**  
**Inj Vol** -1 **Comment** AM 28 Panel 1

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Methadone	Methadone-D9	7.522	1540077	84834	18.1540	1015.5429
Sertraline	Sertraline-D3	7.645	108578	4888	22.2142	987.3291
Nordiazepam	Nordiazepam-D5	7.735	721908	21205	34.0448	986.8532
Diazepam	Diazepam-D5	7.790	2420882	86412	28.0155	999.7625