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

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:55 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 17:18	**Data File**	a negative control.d
Sample Type	Sample	**Sample Name**	a negative control
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-F2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
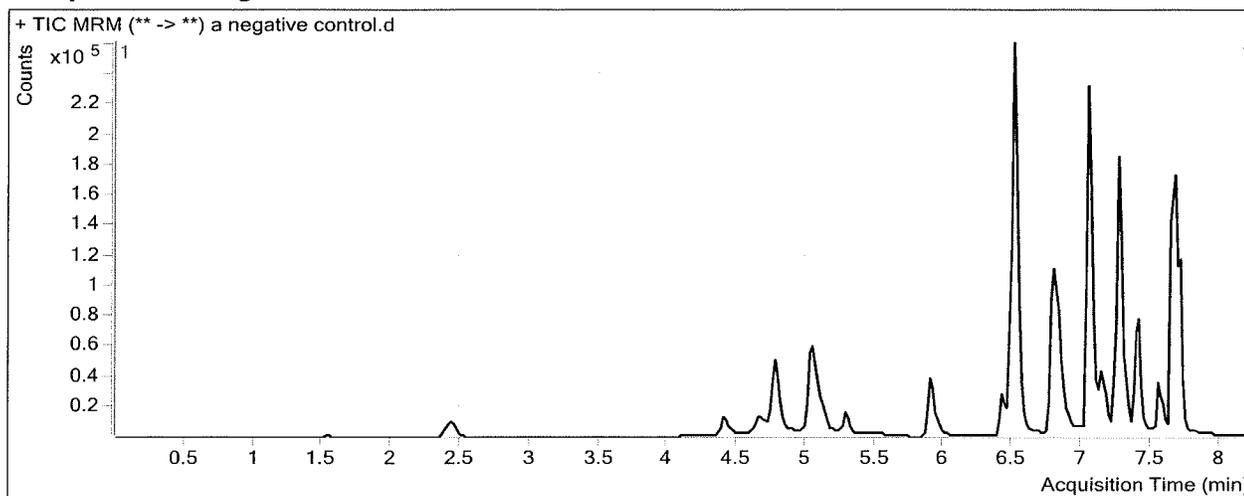
Sample Chromatogram

+ TIC MRM (** -> **) a negative control.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Amphetamine	Amphetamine-D11	4.784	54087	46009	1.1756	6.5835 <10

no indication of 2nd transition

4 samples from casework were inadvertantly ran on Panel 1b. Calibrators & QC's were reinjected with the case samples.
Cases are:
C2017-0651-1
C2017-0668-1
C207-0695-1
M2017-1645-2

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:55 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 17:31	**Data File**	a External control.d
Sample Type	Sample	**Sample Name**	a External control-50ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-G2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28; - 3mm draw; lot 51017 50 ng hydrocodone, diphenhydramine, lor

Sample Chromatogram
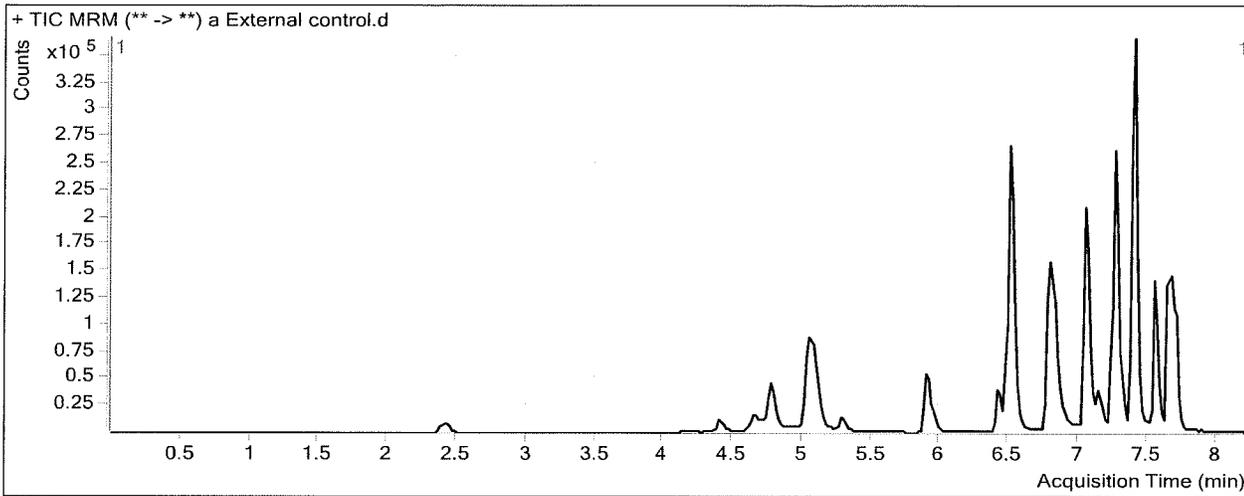
+ TIC MRM (** -> **) a External control.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc	
Amphetamine	Amphetamine-D11	4.784	41659	58109	0.7169	0.9884	→ 100 2nd transition
Hydrocodone	Hydrocodone-D6	5.075	90368	116022	0.7789	48.9099	
Diphenhydramine	Diphenhydramine-D3	7.412	353231	345934	1.0211	52.2088	
Lorazepam	Alprazolam-D5	7.683	17617	225778	0.0780	47.1859	

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Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:55 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 17:44	**Data File**	a QC 10.d
Sample Type	QC	**Sample Name**	a QC 10
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-A2	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
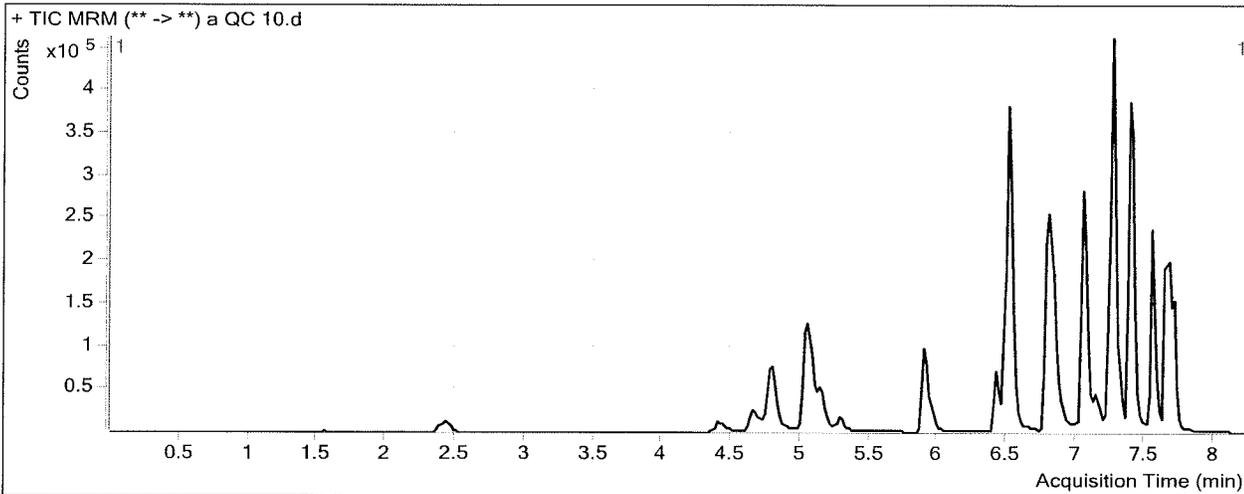
Sample Chromatogram

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.568	2544	3153	0.8067	11.3128
Hydromorphone	Hydromorphone-D6	2.447	12503	45082	0.2773	10.5702
Codeine	Codeine-D6	4.453	5276	25235	0.2091	10.3992
Oxycodone	Oxycodone-D6	4.810	28938	164491	0.1759	10.3673
Amphetamine	Amphetamine-D11	4.804	143540	101017	1.4210	9.5765
Hydrocodone	Hydrocodone-D6	5.075	19554	121157	0.1614	10.3792
Norhydrocodone	Norhydrocodone-D3	5.138	1394	47742	0.0292	14.5856
Methamphetamine	Methamphetamine-D11	5.162	108993	407378	0.2675	9.7679
6-MAM	6-MAM-D6	5.289	855	38898	0.0220	1.2356
Phentermine	Phentermine-D5	5.946	18608	343084	0.0542	9.9235
Dextrorphan	Dextrorphan-D3	6.423	19687	165075	0.1193	10.7917
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	24751	115940	0.2135	10.4465
Tramadol	Tramadol-13C-D3	6.521	193174	934398	0.2067	10.4340
Doxylamine	Doxylamine-D5	6.822	157930	872278	0.1811	10.4257
Bupropion	Bupropion-D9	7.071	584	5371	0.1088	3.3438
Zolpidem	Zolpidem-D6	7.062	129669	797400	0.1626	9.6989
Meprobamate	Meprobamate-D7	7.173	8677	64408	0.1347	10.3093
Trazodone	Trazodone-D6	7.255	83035	383619	0.2165	10.4539
Venlafaxine	Venlafaxine-D6	7.266	147337	785889	0.1875	10.0314
Citalopram	Citalopram-D6	7.378	73468	377648	0.1945	10.6329
Dextromethorphan	Dextromethorphan-D3	7.388	12081	68739	0.1757	12.2145
Diphenhydramine	Diphenhydramine-D3	7.412	103897	555818	0.1869	10.7559
Promethazine	Promethazine-D3	7.546	77330	450188	0.1718	10.8379

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	9581	14930	0.6418	10.3072
~~a-hydroxyalprazolam~~	a-hydroxyalprazolam-D5	7.640	4182	20412	0.2049	~~7.9056~~ Compound not Evaluated
Carisoprodol	Carisoprodol-D7	7.672	58068	395424	0.1469	10.5913
~~Lorazepam~~	Alprazolam-D5	7.683	4118	234528	0.0176	23.8969 not evaluated
Alprazolam	Alprazolam-D5	7.706	53097	234528	0.2264	10.9456

ISP Forensics
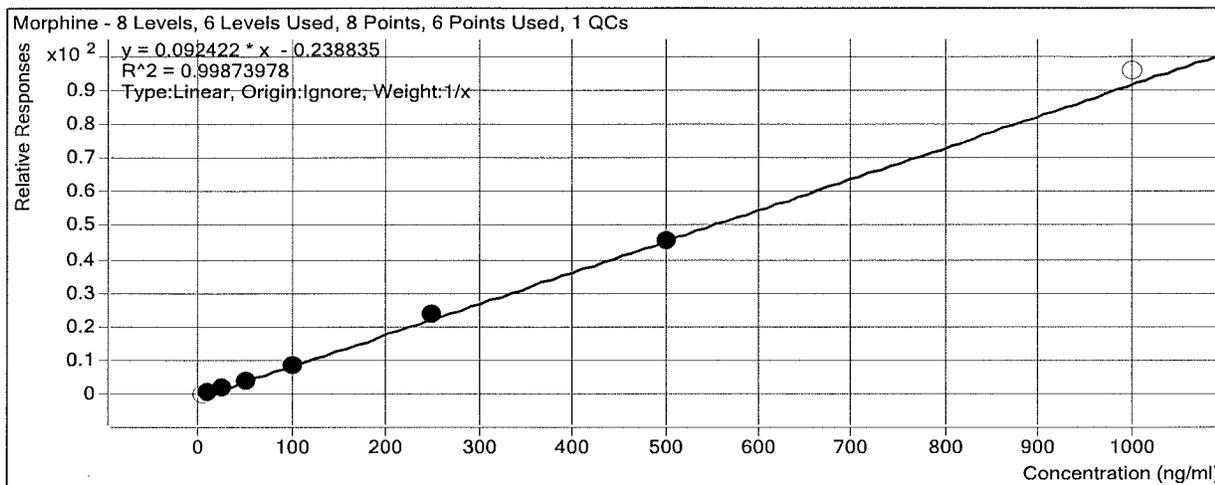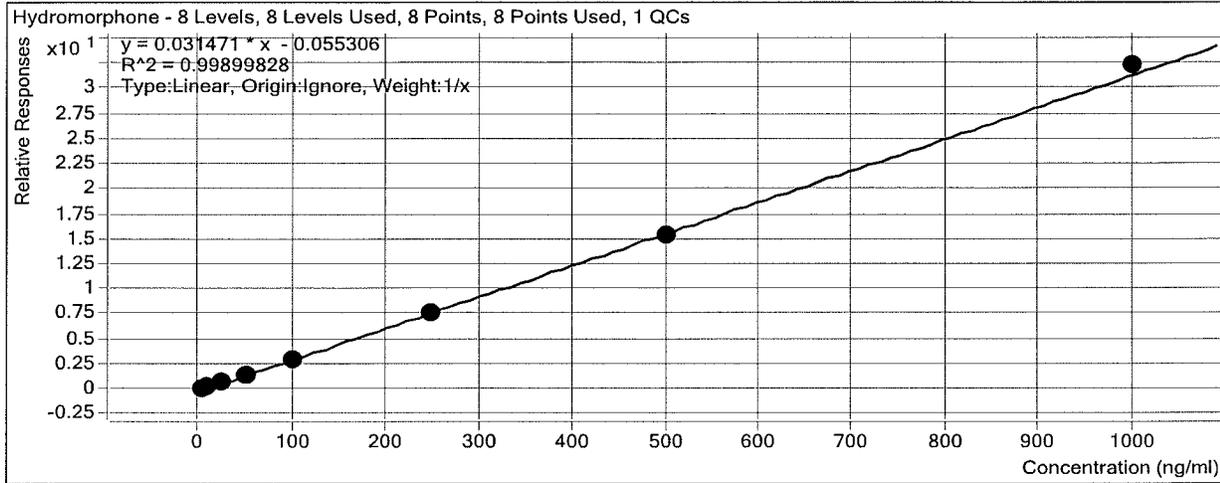# Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Morphine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 1 QCs

y = 0.092422 * x - 0.238835
R^2 = 0.99873978
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	6.4	128.1
a cal 2-10ng/mL	2	☑	10	10.8	108.1
a QC 10	2	☑	10	11.3	113.1
a cal 3-25ng/mL	3	☑	25	23.9	95.8
a cal 4-50ng/mL	4	☑	50	48.1	96.3
a cal 5-100ng/mL	5	☑	100	96.4	96.4
a cal 6-250ng/mL	6	☑	250	261.6	104.7
a cal 7-500ng/mL	7	☑	500	494.1	98.8
a cal 8-1000ng/mL	8	☐	1000	1036.4	103.6

Samples not evaluated below 10ng/mL

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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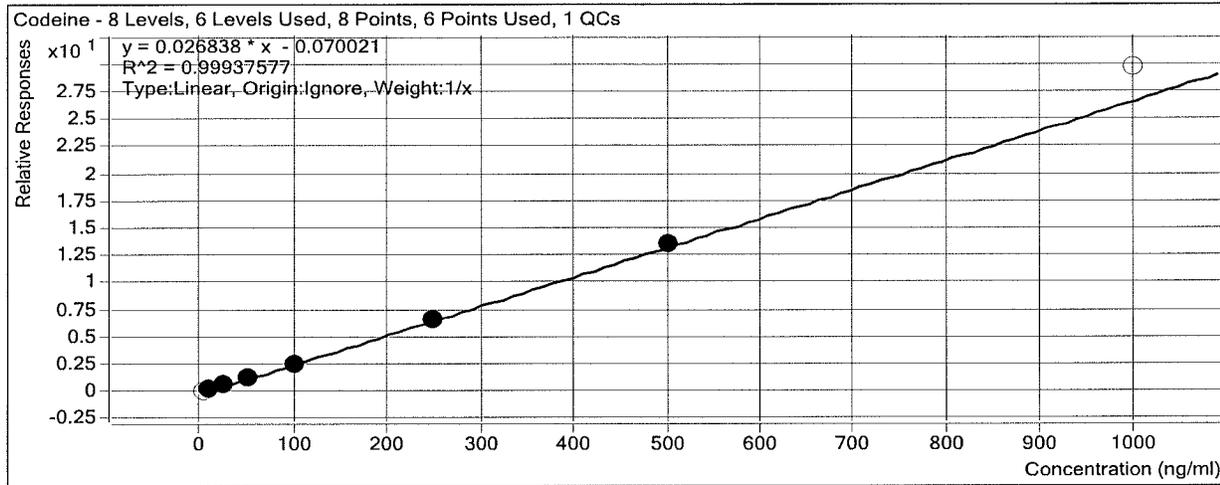
Internal Standard   *Hydromorphone-D6*

Hydromorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.031471 * x - 0.055306$

$R^2 = 0.99899828$

Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	6.0	119.3
a cal 2-10ng/mL	2	☑	10	10.0	100.3
a QC 10	2	☑	10	10.6	105.7
a cal 3-25ng/mL	3	☑	25	23.5	93.9
a cal 4-50ng/mL	4	☑	50	46.1	92.1
a cal 5-100ng/mL	5	☑	100	96.1	96.1
a cal 6-250ng/mL	6	☑	250	245.2	98.1
a cal 7-500ng/mL	7	☑	500	487.7	97.5
a cal 8-1000ng/mL	8	☑	1000	1025.4	102.5

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Codeine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 1 QCs

$y = 0.026838 * x - 0.070021$
$R^2 = 0.99937577$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	7.1	141.2
a cal 2-10ng/mL	2	☑	10	10.6	105.6
a QC 10	2	☑	10	10.4	104.0
a cal 3-25ng/mL	3	☑	25	25.1	100.4
a cal 4-50ng/mL	4	☑	50	49.0	97.9
a cal 5-100ng/mL	5	☑	100	96.1	96.1
a cal 6-250ng/mL	6	☑	250	245.2	98.1
a cal 7-500ng/mL	7	☑	500	509.0	101.8
a cal 8-1000ng/mL	8	☐	1000	1109.1	110.9

Samples not evaluated below 10ng/mL

ISP Forensics
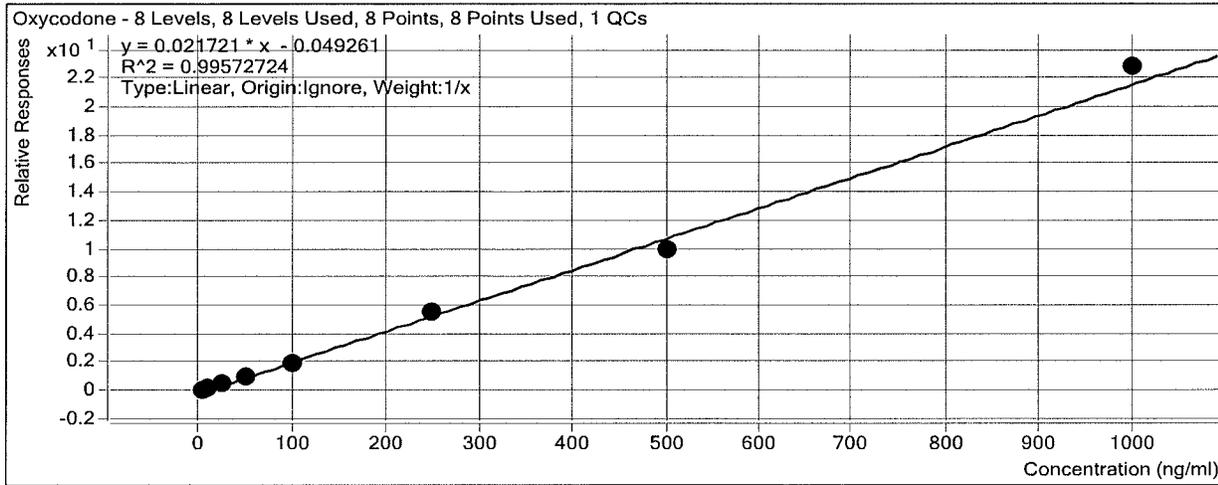# Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

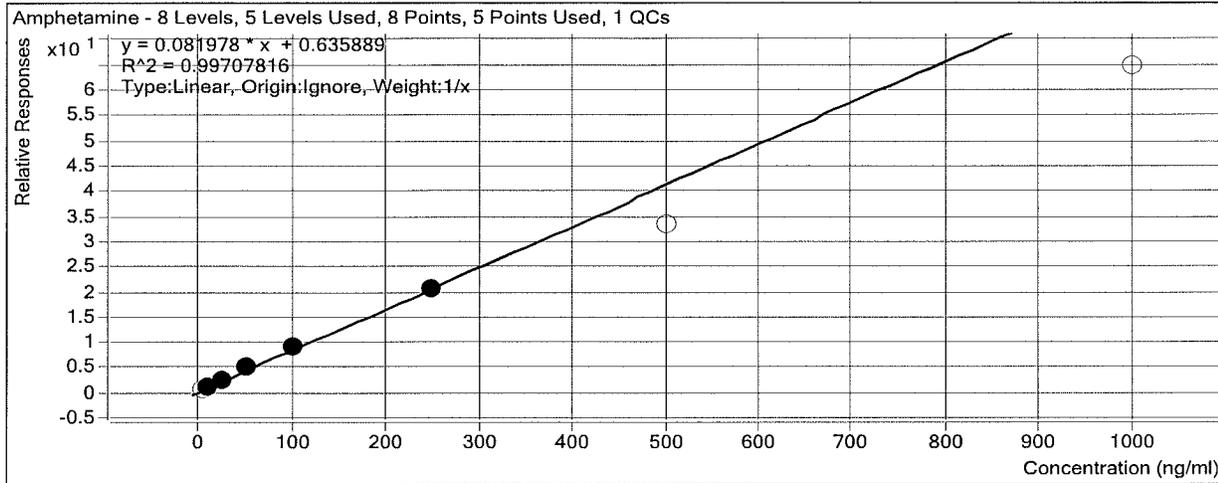*Target Compound*   *Oxycodone*
Internal Standard   *Oxycodone-D6*

Oxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.021721 * x - 0.049261$
$R^2 = 0.99572724$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	6.3	125.7
a cal 2-10ng/mL	2	☑	10	10.2	102.0
a QC 10	2	☑	10	10.4	103.7
a cal 3-25ng/mL	3	☑	25	23.2	92.7
a cal 4-50ng/mL	4	☑	50	45.2	90.3
a cal 5-100ng/mL	5	☑	100	90.4	90.4
a cal 6-250ng/mL	6	☑	250	254.6	101.8
a cal 7-500ng/mL	7	☑	500	460.2	92.0
a cal 8-1000ng/mL	8	☑	1000	1049.9	105.0

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Amphetamine - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 1 QCs

$y = 0.081978 * x + 0.635889$

$R^2 = 0.99707816$

Type:Linear, Origin:Ignore, Weight:1/x

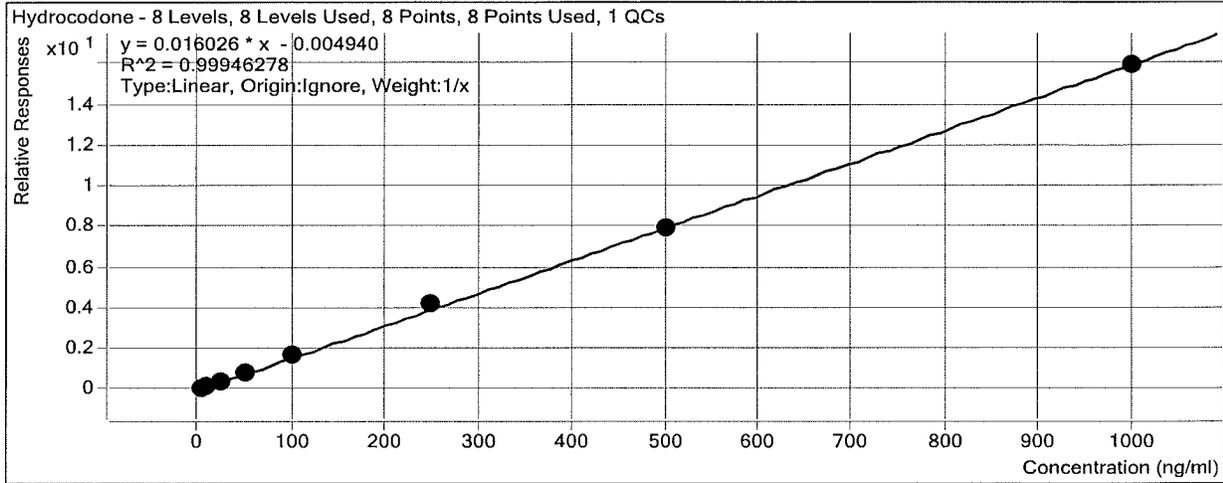| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	3.9	78.8
a cal 2-10ng/mL	2	☑	10	8.9	89.4
a QC 10	2	☑	10	9.6	95.8
a cal 3-25ng/mL	3	☑	25	25.2	100.7
a cal 4-50ng/mL	4	☑	50	54.9	109.9
a cal 5-100ng/mL	5	☑	100	102.7	102.7
a cal 6-250ng/mL	6	☑	250	243.3	97.3
a cal 7-500ng/mL	7	☐	500	402.4	80.5
a cal 8-1000ng/mL	8	☐	1000	781.3	78.1

Samples not evaluated below 10ng/mL

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

Target Compound   *Hydrocodone*
Internal Standard   *Hydrocodone-D6*

Hydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

y = 0.016026 * x - 0.004940
R^2 = 0.99946278
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.1	101.9
a cal 2-10ng/mL	2	☑	10	9.2	92.3
a QC 10	2	☑	10	10.4	103.8
a cal 3-25ng/mL	3	☑	25	25.1	100.2
a cal 4-50ng/mL	4	☑	50	50.3	100.6
a cal 5-100ng/mL	5	☑	100	102.0	102.0
a cal 6-250ng/mL	6	☑	250	263.1	105.3
a cal 7-500ng/mL	7	☑	500	493.0	98.6
a cal 8-1000ng/mL	8	☑	1000	992.2	99.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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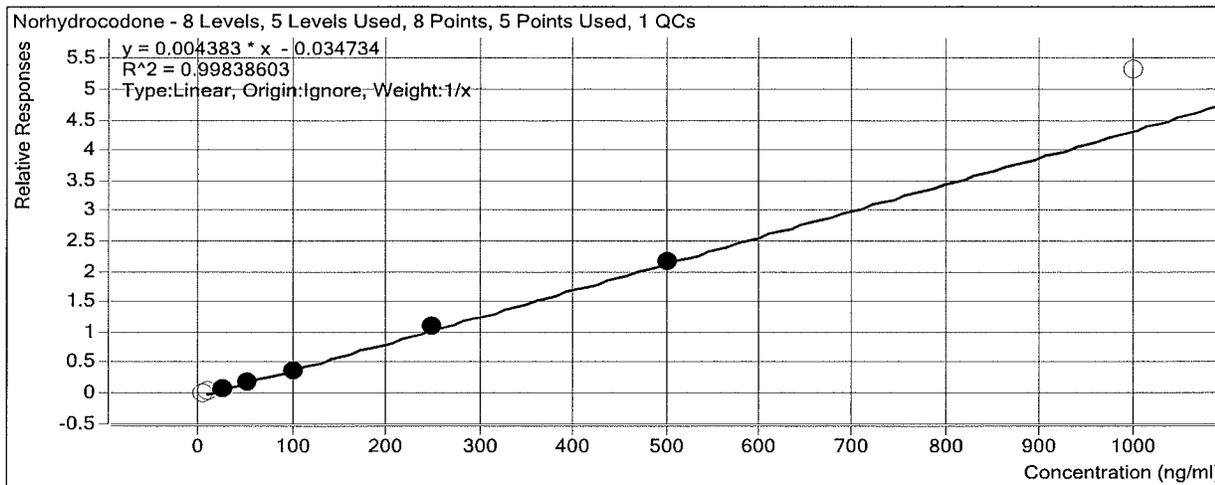*Internal Standard*   *Norhydrocodone-D3*

Norhydrocodone - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 1 QCs

$y = 0.004383 * x - 0.034734$
$R^2 = 0.99838603$
Type:Linear, Origin:Ignore, Weight:1/x

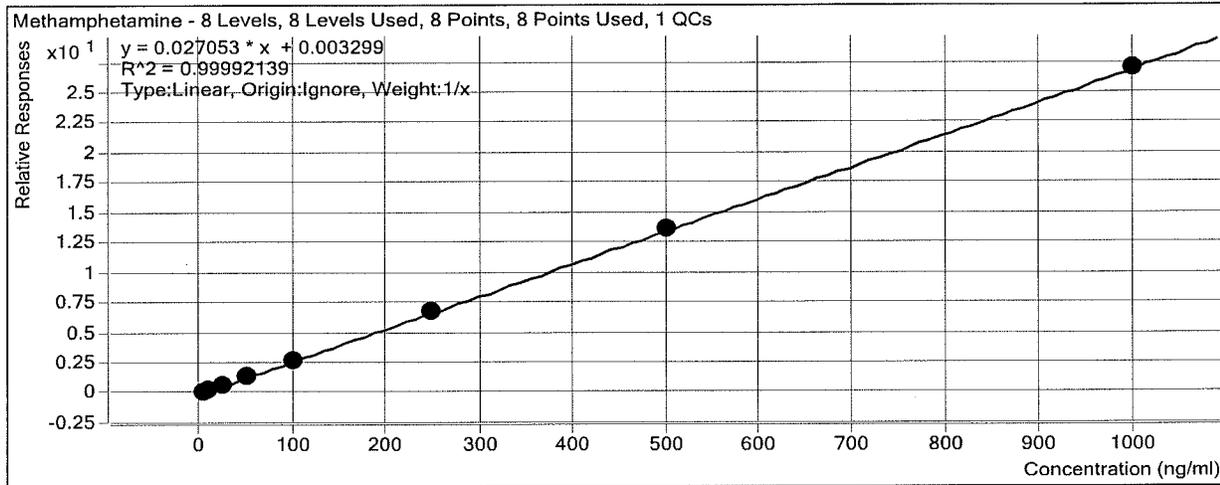| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	11.3	226.4
a cal 2-10ng/mL	2	☐	10	14.9	148.7
a QC 10	2	☐	10	14.6	145.9
a cal 3-25ng/mL	3	☑	25	27.0	108.1
a cal 4-50ng/mL	4	☑	50	48.7	97.4
a cal 5-100ng/mL	5	☑	100	92.0	92.0
a cal 6-250ng/mL	6	☑	250	255.3	102.1
a cal 7-500ng/mL	7	☑	500	502.0	100.4
a cal 8-1000ng/mL	8	☐	1000	1220.2	122.0

Samples not evaluated below 25ng/mL

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update 5/9/2017 12:50 PM   **Analyst Name** ISP TOX

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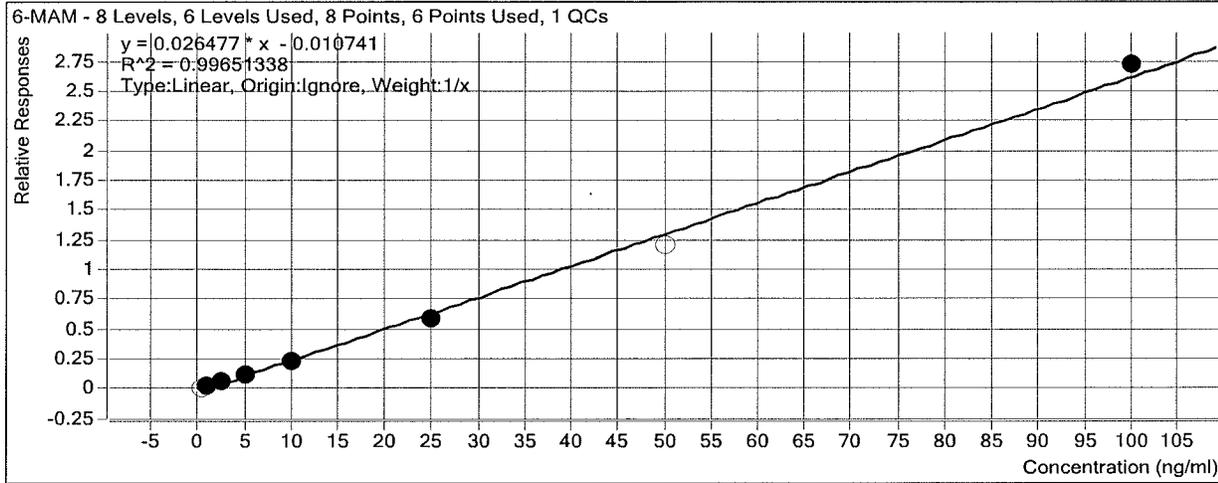*Internal Standard*   *Methamphetamine-D11*

Methamphetamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.027053 * x + 0.003299$
$R^2 = 0.99992139$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.2	105.0
a cal 2-10ng/mL	2	☑	10	10.1	100.7
a QC 10	2	☑	10	9.8	97.7
a cal 3-25ng/mL	3	☑	25	24.1	96.3
a cal 4-50ng/mL	4	☑	50	49.1	98.3
a cal 5-100ng/mL	5	☑	100	98.9	98.9
a cal 6-250ng/mL	6	☑	250	250.0	100.0
a cal 7-500ng/mL	7	☑	500	505.4	101.1
a cal 8-1000ng/mL	8	☑	1000	997.2	99.7

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

6-MAM - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 1 QCs

$y = 0.026477 * x - 0.010741$
$R^2 = 0.99651338$
Type:Linear, Origin:Ignore, Weight:1/x

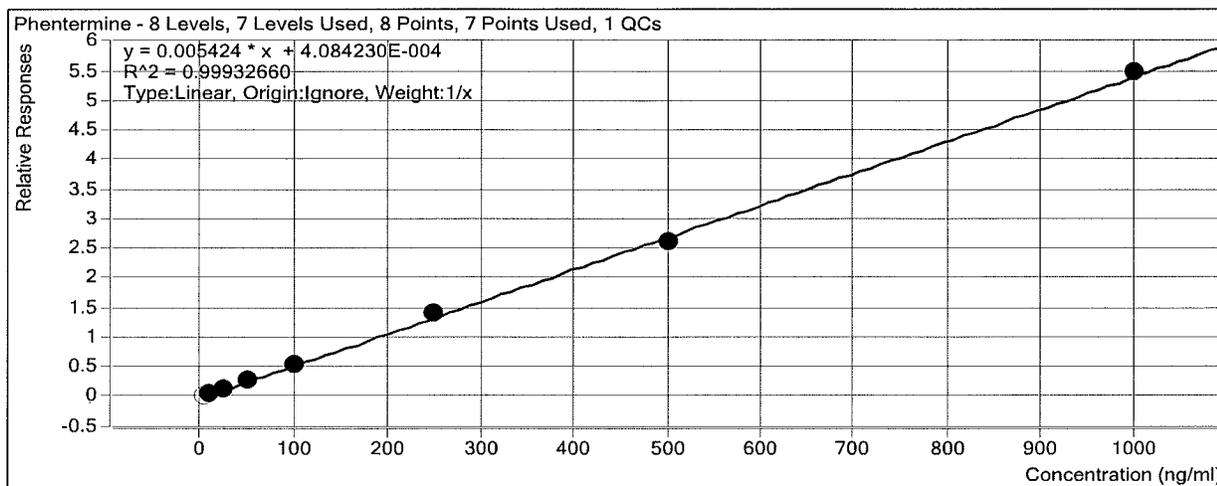| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	0.5	0.9	170.6
a cal 2-10ng/mL	2	☑	1	1.2	124.5
a QC 10	2	☑	1	1.2	123.6
a cal 3-25ng/mL	3	☑	2.5	2.4	95.6
a cal 4-50ng/mL	4	☑	5	4.6	92.7
a cal 5-100ng/mL	5	☑	10	9.3	92.7
a cal 6-250ng/mL	6	☑	25	22.8	91.3
a cal 7-500ng/mL	7	☐	50	46.2	92.4
a cal 8-1000ng/mL	8	☑	100	103.1	103.1

Samples not evaluated below 1ng/mL

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Phentermine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 1 QCs

y = 0.005424 * x + 4.084230E-004
R^2 = 0.99932660
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	4.9	98.2
a cal 2-10ng/mL	2	☑	10	9.6	96.4
a QC 10	2	☑	10	9.9	99.2
a cal 3-25ng/mL	3	☑	25	24.0	96.1
a cal 4-50ng/mL	4	☑	50	52.6	105.2
a cal 5-100ng/mL	5	☑	100	102.6	102.6
a cal 6-250ng/mL	6	☑	250	256.3	102.5
a cal 7-500ng/mL	7	☑	500	482.1	96.4
a cal 8-1000ng/mL	8	☑	1000	1007.8	100.8

Samples not evaluated below 10ng/mL

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Dextrorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.013235 * x - 0.023565$
$R^2 = 0.99871917$
Type:Linear, Origin:Ignore, Weight:1/x

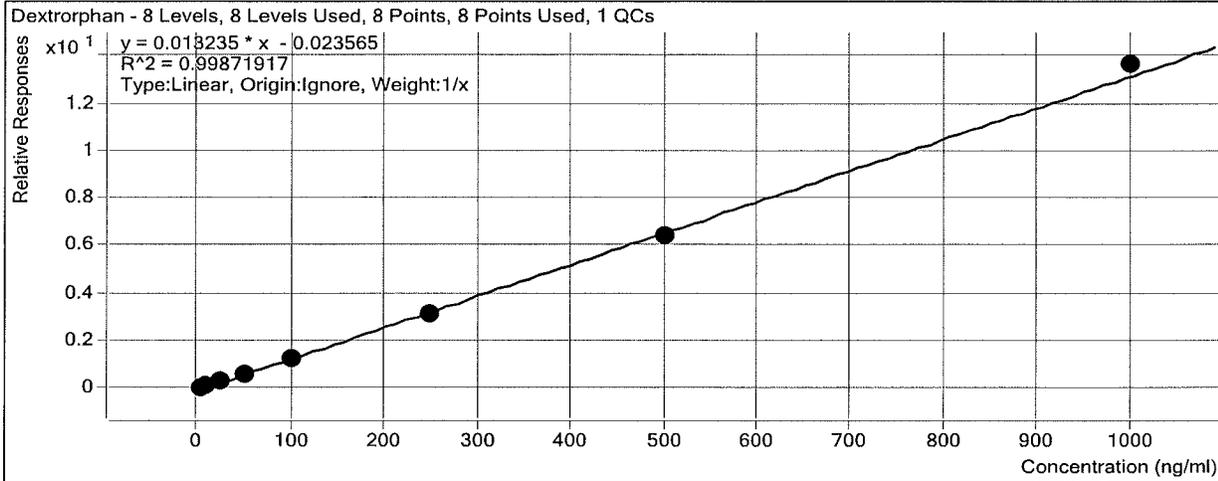| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.9	117.1
a cal 2-10ng/mL	2	☑	10	10.0	99.8
a QC 10	2	☑	10	10.8	107.9
a cal 3-25ng/mL	3	☑	25	23.9	95.6
a cal 4-50ng/mL	4	☑	50	47.4	94.8
a cal 5-100ng/mL	5	☑	100	96.5	96.5
a cal 6-250ng/mL	6	☑	250	240.6	96.2
a cal 7-500ng/mL	7	☑	500	484.5	96.9
a cal 8-1000ng/mL	8	☑	1000	1031.3	103.1

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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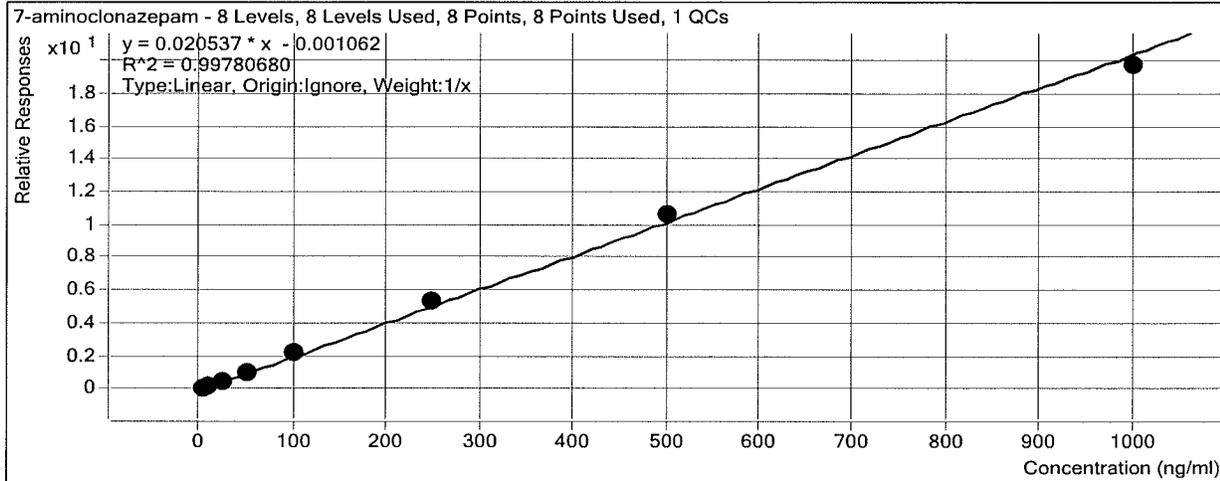*Internal Standard*   *7-Aminoclonazepam-D4*

7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.020537 * x - 0.001062$
$R^2 = 0.99780680$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	4.7	93.5
a cal 2-10ng/mL	2	☑	10	9.1	91.1
a QC 10	2	☑	10	10.4	104.5
a cal 3-25ng/mL	3	☑	25	25.1	100.3
a cal 4-50ng/mL	4	☑	50	50.8	101.6
a cal 5-100ng/mL	5	☑	100	108.4	108.4
a cal 6-250ng/mL	6	☑	250	263.5	105.4
a cal 7-500ng/mL	7	☑	500	518.9	103.8
a cal 8-1000ng/mL	8	☑	1000	959.6	96.0

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update 5/9/2017 12:50 PM **Analyst Name** ISP TOX

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

Tramadol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.020663 * x - 0.008857$
$R^2 = 0.99978154$
Type:Linear, Origin:Ignore, Weight:1/x

Concentration (ng/ml)

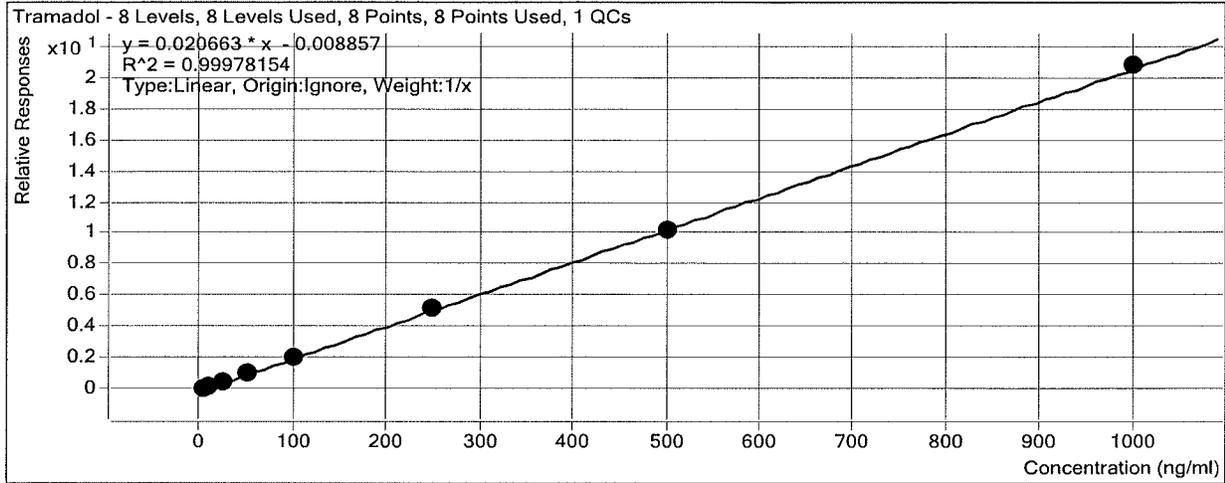| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.2	103.0
a cal 2-10ng/mL	2	☑	10	9.7	97.0
a QC 10	2	☑	10	10.4	104.3
a cal 3-25ng/mL	3	☑	25	26.0	103.9
a cal 4-50ng/mL	4	☑	50	47.5	95.1
a cal 5-100ng/mL	5	☑	100	100.4	100.4
a cal 6-250ng/mL	6	☑	250	254.1	101.7
a cal 7-500ng/mL	7	☑	500	492.2	98.4
a cal 8-1000ng/mL	8	☑	1000	1004.9	100.5

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

Target Compound   *Doxylamine*
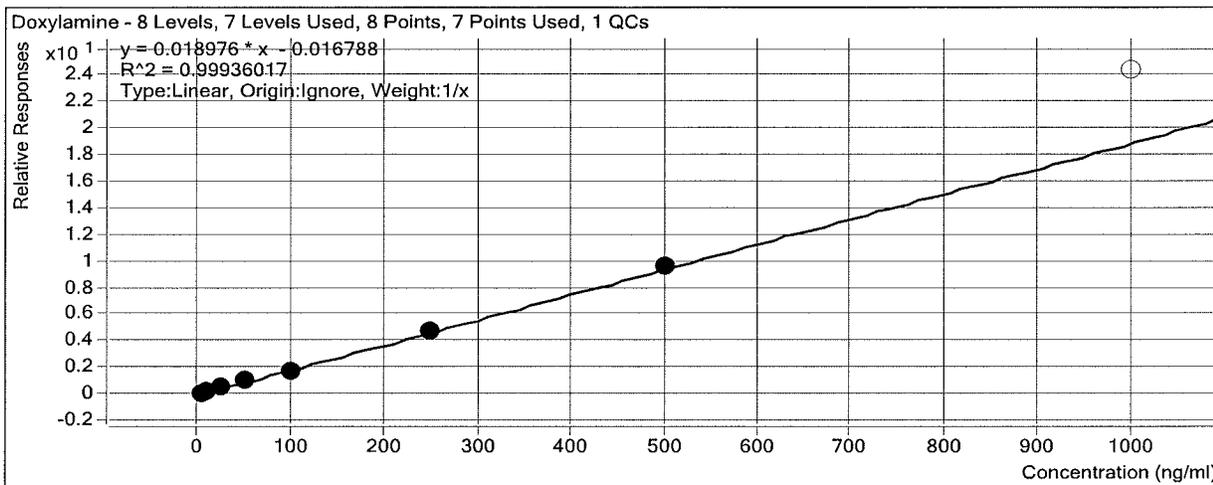*Internal Standard*   *Doxylamine-D5*

Doxylamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 1 QCs

y = 0.018976 * x - 0.016788
R^2 = 0.99936017
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.0	100.5
a cal 2-10ng/mL	2	☑	10	10.5	105.3
a QC 10	2	☑	10	10.4	104.3
a cal 3-25ng/mL	3	☑	25	24.7	98.7
a cal 4-50ng/mL	4	☑	50	50.4	100.8
a cal 5-100ng/mL	5	☑	100	93.6	93.6
a cal 6-250ng/mL	6	☑	250	249.7	99.9
a cal 7-500ng/mL	7	☑	500	506.0	101.2
a cal 8-1000ng/mL	8	☐	1000	1284.0	128.4

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update 5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Bupropion - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 1 QCs

$y = 0.012959 * x + 0.065472$
$R^2 = 0.99032914$
Type:Linear, Origin:Ignore, Weight:1/x

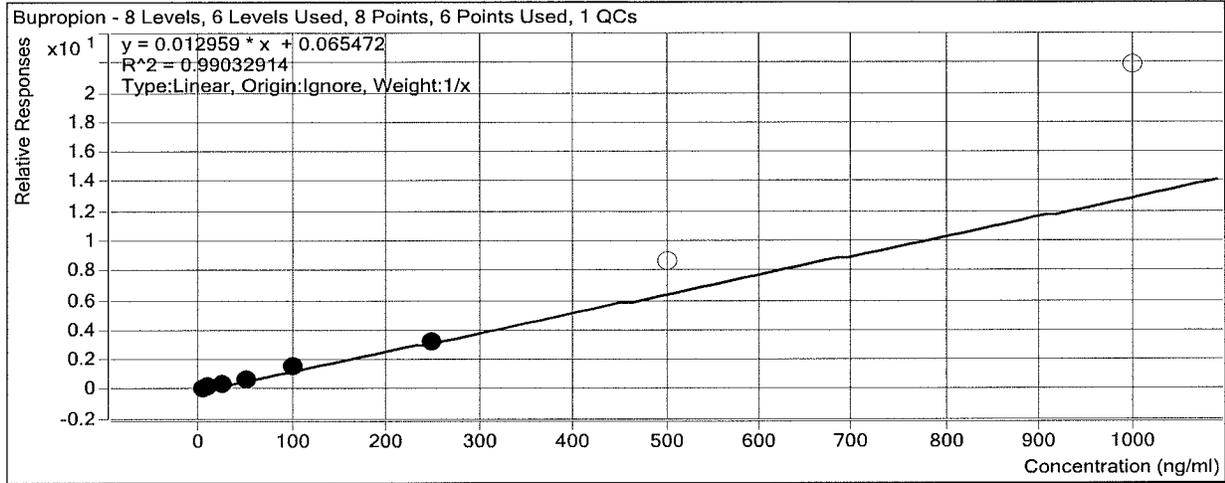| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	4.6	92.0
a cal 2-10ng/mL	2	☑	10	11.1	111.4
a QC 10	2	☑	10	3.3	33.4
a cal 3-25ng/mL	3	☑	25	23.7	95.0
a cal 4-50ng/mL	4	☑	50	45.2	90.4
a cal 5-100ng/mL	5	☑	100	115.1	115.1
a cal 6-250ng/mL	6	☑	250	240.2	96.1
a cal 7-500ng/mL	7	☐	500	664.3	132.9
a cal 8-1000ng/mL	8	☐	1000	1680.4	168.0

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Zolpidem - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 1 QCs

$y = 0.017089 * x - 0.003131$
$R^2 = 0.99948321$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.1	101.3
a cal 2-10ng/mL	2	☑	10	9.5	95.4
a QC 10	2	☑	10	9.7	97.0
a cal 3-25ng/mL	3	☑	25	25.2	100.7
a cal 4-50ng/mL	4	☑	50	48.8	97.6
a cal 5-100ng/mL	5	☑	100	105.4	105.4
a cal 6-250ng/mL	6	☑	250	251.8	100.7
a cal 7-500ng/mL	7	☑	500	494.2	98.8
a cal 8-1000ng/mL	8	☐	1000	1058.2	105.8

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update 5/9/2017 12:50 PM **Analyst Name** ISP TOX

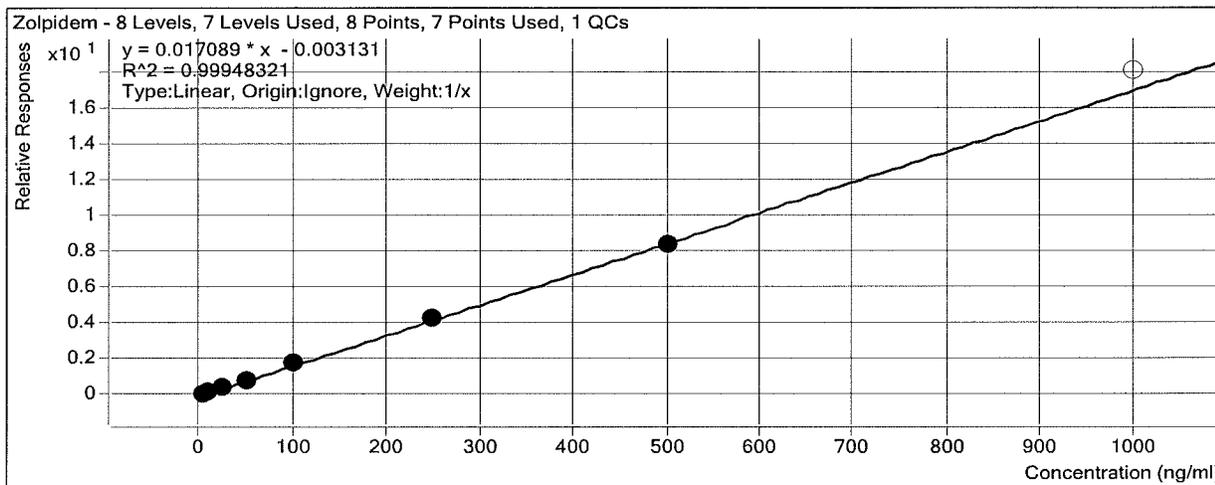### Target Compound   Meprobamate
Internal Standard   *Meprobamate-D7*

Meprobamate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.016348 * x - 0.033823$
$R^2 = 0.99688811$
Type:Linear, Origin:Ignore, Weight:1/x

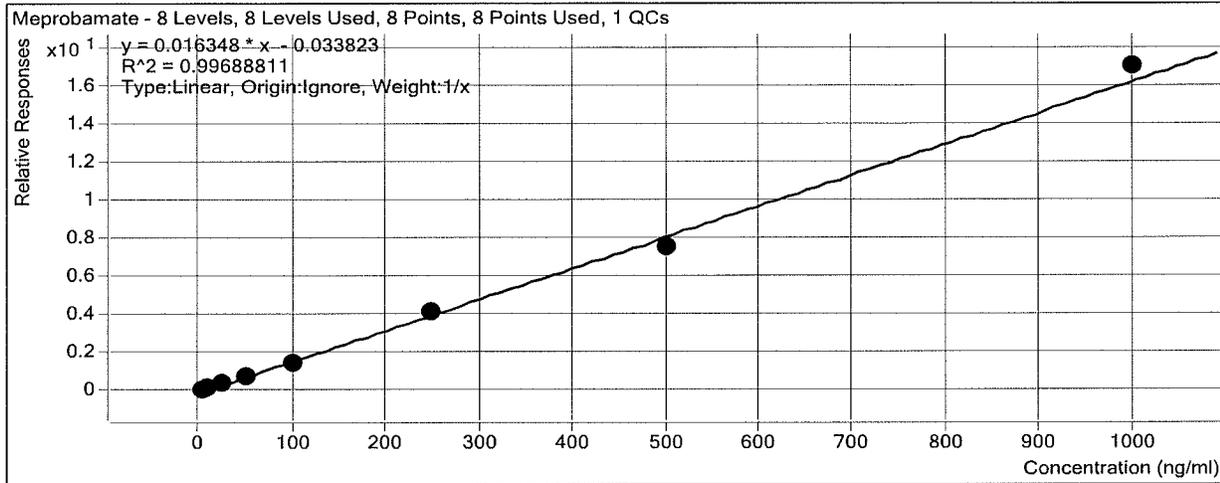| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	6.2	123.9
a cal 2-10ng/mL	2	☑	10	10.1	100.5
a QC 10	2	☑	10	10.3	103.1
a cal 3-25ng/mL	3	☑	25	22.9	91.5
a cal 4-50ng/mL	4	☑	50	46.9	93.8
a cal 5-100ng/mL	5	☑	100	91.4	91.4
a cal 6-250ng/mL	6	☑	250	253.1	101.3
a cal 7-500ng/mL	7	☑	500	466.5	93.3
a cal 8-1000ng/mL	8	☑	1000	1042.9	104.3

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Trazodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.020240 * x + 0.004868$
$R^2 = 0.99738021$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	4.7	93.5
a cal 2-10ng/mL	2	☑	10	9.2	92.1
a QC 10	2	☑	10	10.5	104.5
a cal 3-25ng/mL	3	☑	25	24.2	96.6
a cal 4-50ng/mL	4	☑	50	50.4	100.7
a cal 5-100ng/mL	5	☑	100	111.6	111.6
a cal 6-250ng/mL	6	☑	250	274.4	109.8
a cal 7-500ng/mL	7	☑	500	490.4	98.1
a cal 8-1000ng/mL	8	☑	1000	975.1	97.5

ISP Forensics
Calibration Curve Report

Batch Data Path D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update 5/9/2017 12:50 PM **Analyst Name** ISP TOX

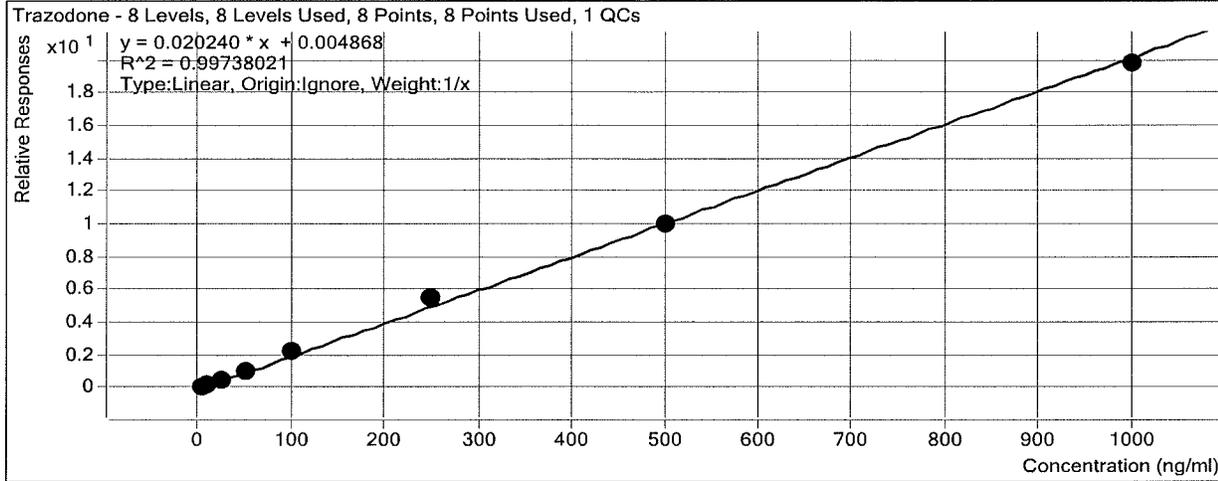*Target Compound* *Venlafaxine*
Internal Standard *Venlafaxine-D6*

Venlafaxine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs
y = 0.020915 * x - 0.022326
R^2 = 0.99872550
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.4	108.6
a cal 2-10ng/mL	2	☑	10	9.6	96.1
a QC 10	2	☑	10	10.0	100.3
a cal 3-25ng/mL	3	☑	25	24.9	99.5
a cal 4-50ng/mL	4	☑	50	52.7	105.4
a cal 5-100ng/mL	5	☑	100	94.4	94.4
a cal 6-250ng/mL	6	☑	250	241.4	96.6
a cal 7-500ng/mL	7	☑	500	482.5	96.5
a cal 8-1000ng/mL	8	☑	1000	1029.1	102.9

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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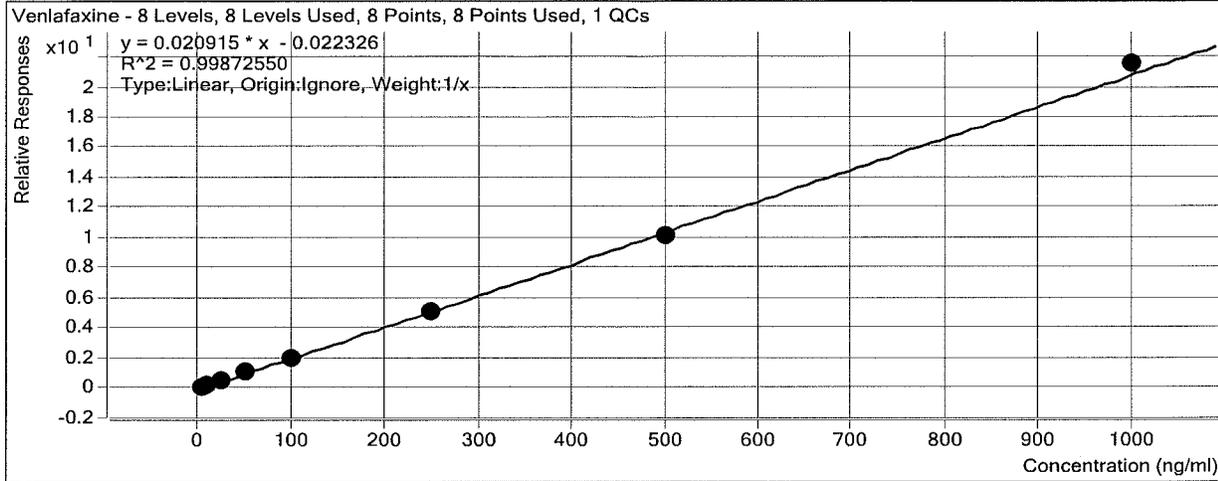*Internal Standard*   *Citalopram-D6*

Citalopram - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.020692 * x - 0.025475$

$R^2 = 0.99930088$

Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.5	109.9
a cal 2-10ng/mL	2	☑	10	9.8	98.1
a QC 10	2	☑	10	10.6	106.3
a cal 3-25ng/mL	3	☑	25	24.5	97.9
a cal 4-50ng/mL	4	☑	50	49.5	98.9
a cal 5-100ng/mL	5	☑	100	97.2	97.2
a cal 6-250ng/mL	6	☑	250	248.0	99.2
a cal 7-500ng/mL	7	☑	500	483.1	96.6
a cal 8-1000ng/mL	8	☑	1000	1022.5	102.2

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

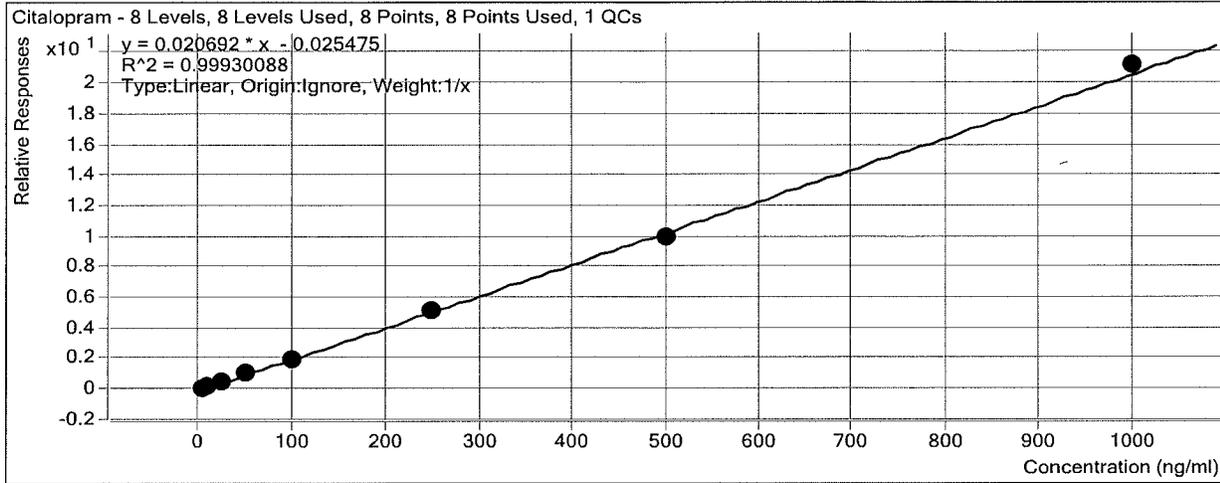**Target Compound**   *Dextromethorphan*
Internal Standard   *Dextromethorphan-D3*

Dextromethorphan - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 1 QCs

$y = 0.023273 * x - 0.108517$
$R^2 = 0.99813987$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	7.4	147.9
a cal 2-10ng/mL	2	☑	10	11.9	118.7
a QC 10	2	☑	10	12.2	122.1
a cal 3-25ng/mL	3	☑	25	25.5	101.9
a cal 4-50ng/mL	4	☑	50	45.8	91.6
a cal 5-100ng/mL	5	☑	100	90.7	90.7
a cal 6-250ng/mL	6	☑	250	239.4	95.8
a cal 7-500ng/mL	7	☑	500	491.3	98.3
a cal 8-1000ng/mL	8	☑	1000	1030.4	103.0

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

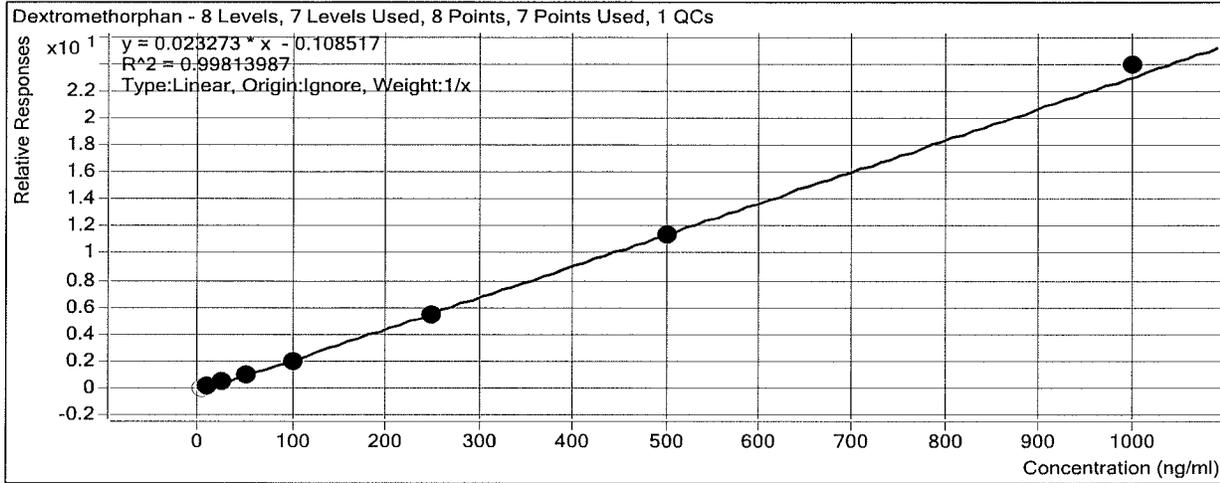***Target Compound***   *Diphenhydramine*

Internal Standard   *Diphenhydramine-D3*

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.020123 * x - 0.029517$

$R^2 = 0.99906086$

Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.5	110.5
a cal 2-10ng/mL	2	☑	10	10.1	101.2
a QC 10	2	☑	10	10.8	107.6
a cal 3-25ng/mL	3	☑	25	25.1	100.5
a cal 4-50ng/mL	4	☑	50	46.9	93.8
a cal 5-100ng/mL	5	☑	100	97.0	97.0
a cal 6-250ng/mL	6	☑	250	243.3	97.3
a cal 7-500ng/mL	7	☑	500	485.3	97.1
a cal 8-1000ng/mL	8	☑	1000	1026.7	102.7

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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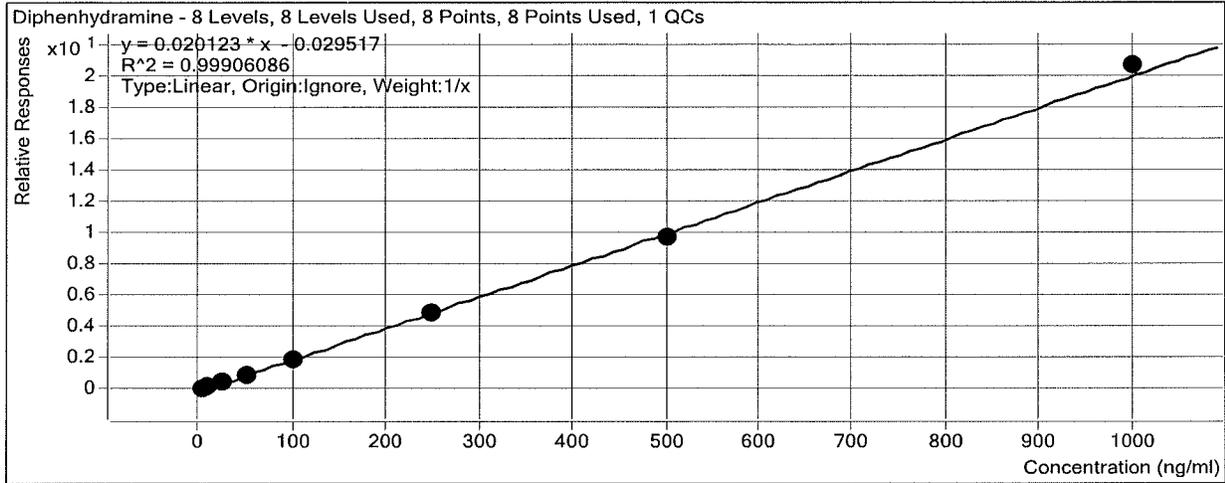*Internal Standard*   *Promethazine-D3*

Promethazine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs

$y = 0.019854 * x - 0.043409$
$R^2 = 0.99111928$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	6.5	129.0
a cal 2-10ng/mL	2	☑	10	10.2	102.3
a QC 10	2	☑	10	10.8	108.4
a cal 3-25ng/mL	3	☑	25	25.5	102.2
a cal 4-50ng/mL	4	☑	50	41.9	83.9
a cal 5-100ng/mL	5	☑	100	91.9	91.9
a cal 6-250ng/mL	6	☑	250	231.6	92.6
a cal 7-500ng/mL	7	☑	500	449.1	89.8
a cal 8-1000ng/mL	8	☑	1000	1083.3	108.3

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

Target Compound   *Clonazepam*

Internal Standard   *Clonazepam-D4*

Clonazepam - 8 Levels, 4 Levels Used, 8 Points, 4 Points Used, 1 QCs

$y = 0.067574 * x - 0.054743$
$R^2 = 0.99443449$
Type:Linear, Origin:Ignore, Weight:1/x

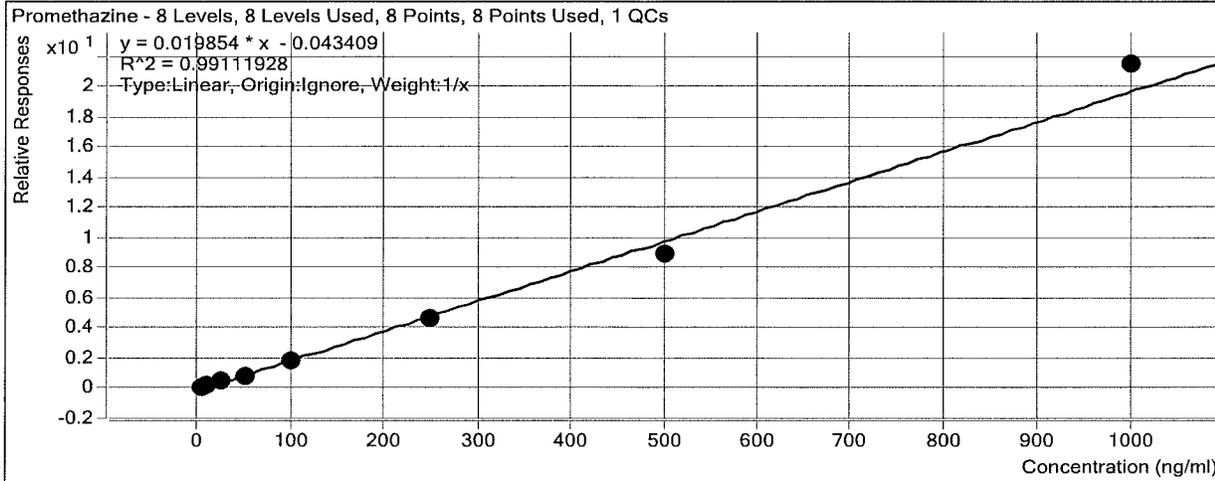| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.6	111.0
a cal 2-10ng/mL	2	☑	10	9.3	93.1
a QC 10	2	☑	10	10.3	103.1
a cal 3-25ng/mL	3	☐	25	47.9	191.4
a cal 4-50ng/mL	4	☑	50	45.8	91.6
a cal 5-100ng/mL	5	☑	100	104.4	104.4
a cal 6-250ng/mL	6	☐	250	490.2	196.1
a cal 7-500ng/mL	7	☐	500	530.5	106.1
a cal 8-1000ng/mL	8	☐	1000	1089.1	108.9

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

a-hydroxyalprazolam - 8 Levels, 4 Levels Used, 8 Points, 4 Points Used, 1 QCs

$y = 0.022102 * x + 0.030149$
$R^2 = 0.95800070$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	0.4	8.3
a cal 2-10ng/mL	2	☑	10	7.7	76.8
a QC 10	2	☐	10	7.9	79.1
a cal 3-25ng/mL	3	☑	25	33.6	134.4
a cal 4-50ng/mL	4	☑	50	45.1	90.2
a cal 5-100ng/mL	5	☑	100	98.6	98.6
a cal 6-250ng/mL	6	☐	250	497.9	199.2
a cal 7-500ng/mL	7	☐	500	992.4	198.5
a cal 8-1000ng/mL	8	☐	1000	2438.9	243.9

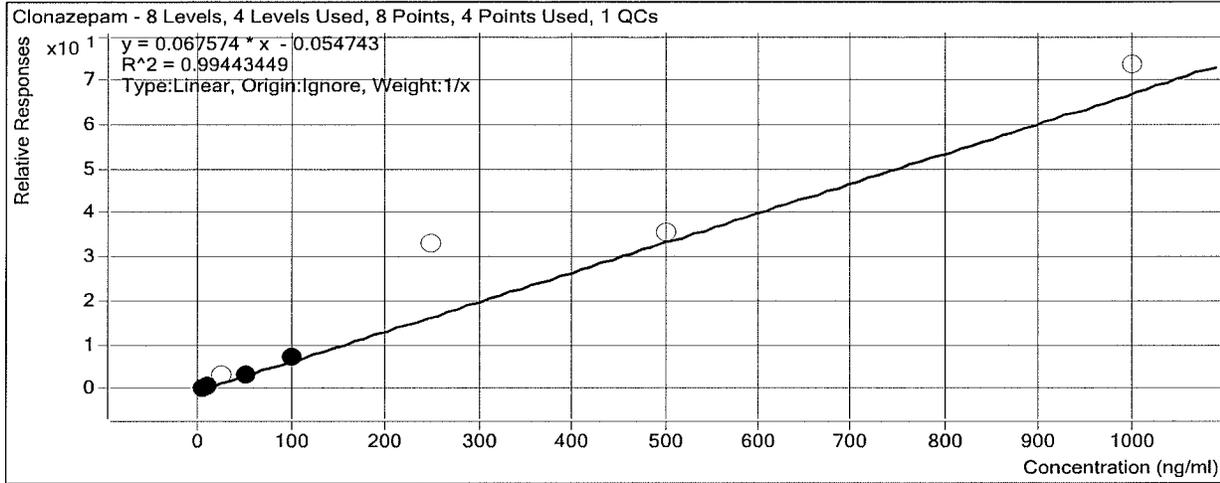Compound not evaluated in the re-injection batch-

ISP Forensics
Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Carisoprodol - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 1 QCs

y = 0.015442 * x - 0.016705
R^2 = 0.99593241
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.6	112.6
a cal 2-10ng/mL	2	☑	10	9.5	95.3
a QC 10	2	☑	10	10.6	105.9
a cal 3-25ng/mL	3	☑	25	25.4	101.6
a cal 4-50ng/mL	4	☑	50	42.6	85.2
a cal 5-100ng/mL	5	☑	100	104.2	104.2
a cal 6-250ng/mL	6	☑	250	252.6	101.0
a cal 7-500ng/mL	7	☐	500	493.7	98.7
a cal 8-1000ng/mL	8	☐	1000	879.1	87.9

ISP Forensics
Calibration Curve Report

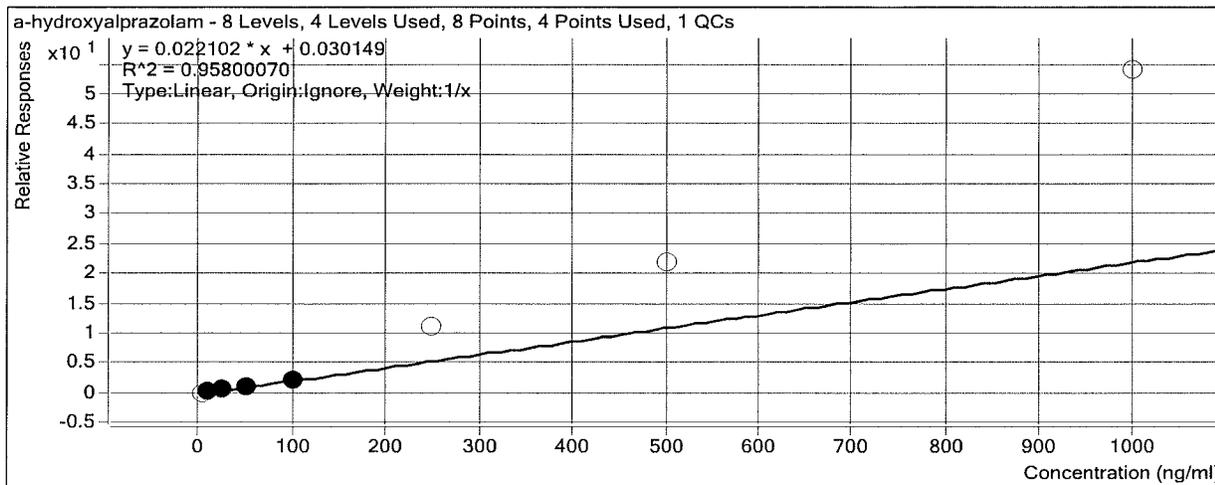**Batch Data Path**   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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

Lorazepam - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 1 QCs

$y = 0.002596 * x - 0.044487$
$R^2 = 0.98947862$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☐	5	20.0	400.1
a cal 2-10ng/mL	2	☐	10	22.3	223.0
a QC 10	2	☐	10	23.9	239.0
a cal 3-25ng/mL	3	☑	25	30.7	123.0
a cal 4-50ng/mL	4	☑	50	47.1	94.2
a cal 5-100ng/mL	5	☑	100	80.7	80.7
a cal 6-250ng/mL	6	☑	250	244.1	97.6
a cal 7-500ng/mL	7	☑	500	522.3	104.5
a cal 8-1000ng/mL	8	☐	1000	1282.5	128.3

Samples not evaluated below 25ng/mL

ISP Forensics
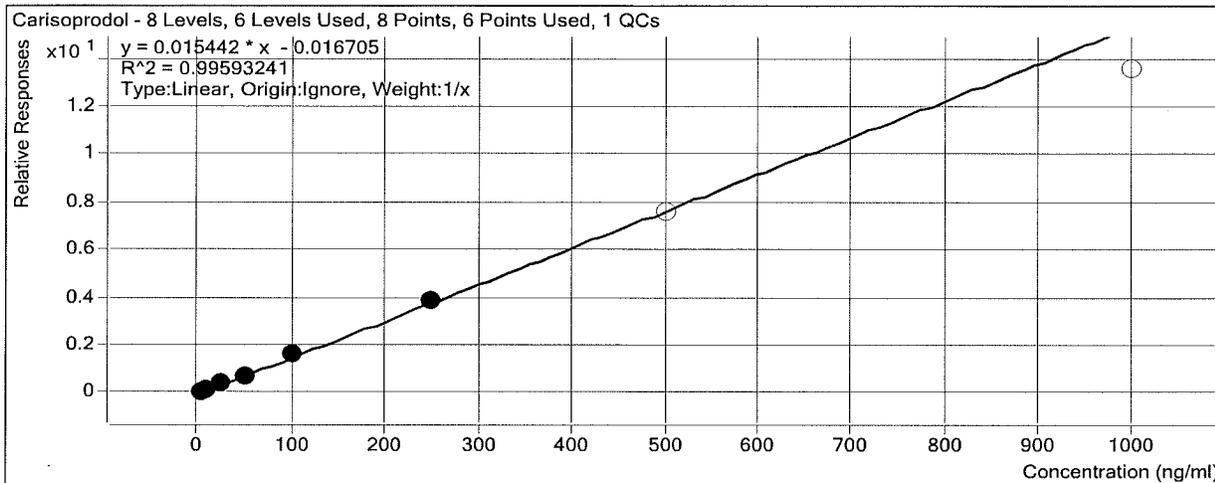# Calibration Curve Report

Batch Data Path   D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin

Last Calib Update   5/9/2017 12:50 PM   **Analyst Name**   ISP TOX

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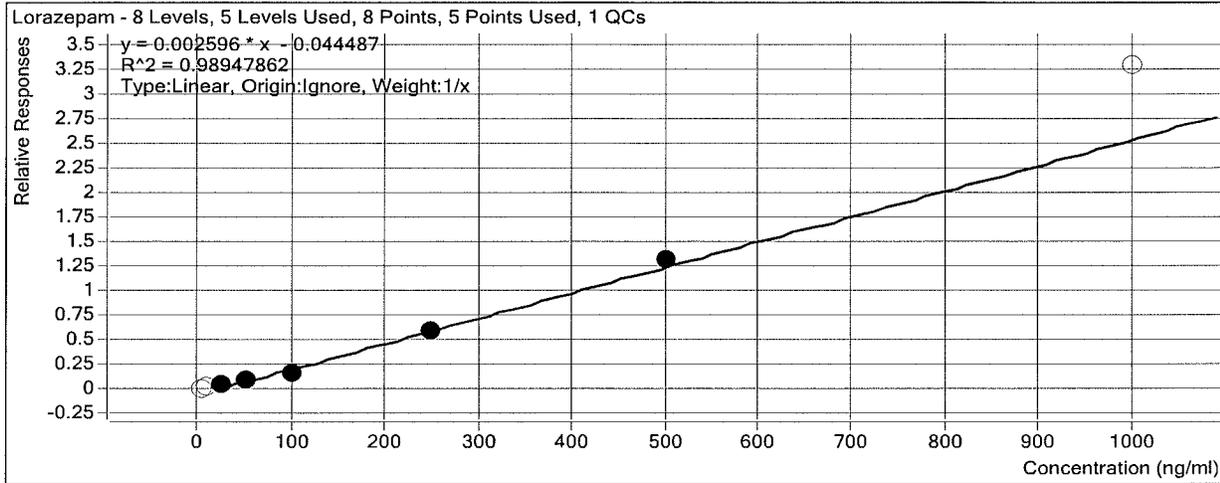*Internal Standard*   *Alprazolam-D5*

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 1 QCs
y = 0.024652 * x - 0.043428
R^2 = 0.99909657
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
a cal 1-5ng/mL	1	☑	5	5.8	116.8
a cal 2-10ng/mL	2	☑	10	10.2	101.8
a QC 10	2	☑	10	10.9	109.5
a cal 3-25ng/mL	3	☑	25	23.9	95.4
a cal 4-50ng/mL	4	☑	50	46.1	92.2
a cal 5-100ng/mL	5	☑	100	95.9	95.9
a cal 6-250ng/mL	6	☑	250	243.5	97.4
a cal 7-500ng/mL	7	☑	500	490.5	98.1
a cal 8-1000ng/mL	8	☑	1000	1024.1	102.4

ISP FORENSICS - Cd'A Instrument # 62340
Multi-Drug Confirmatory Analysis Report
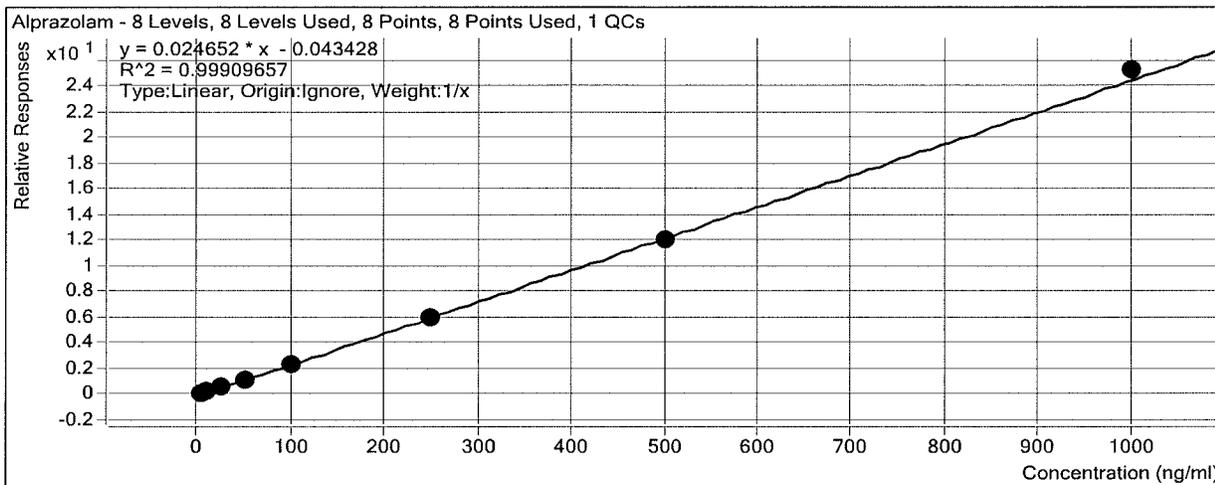
Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 15:25	**Data File**	a cal 1.d
Sample Type	Calibration	**Sample Name**	a cal 1-5ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-A1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
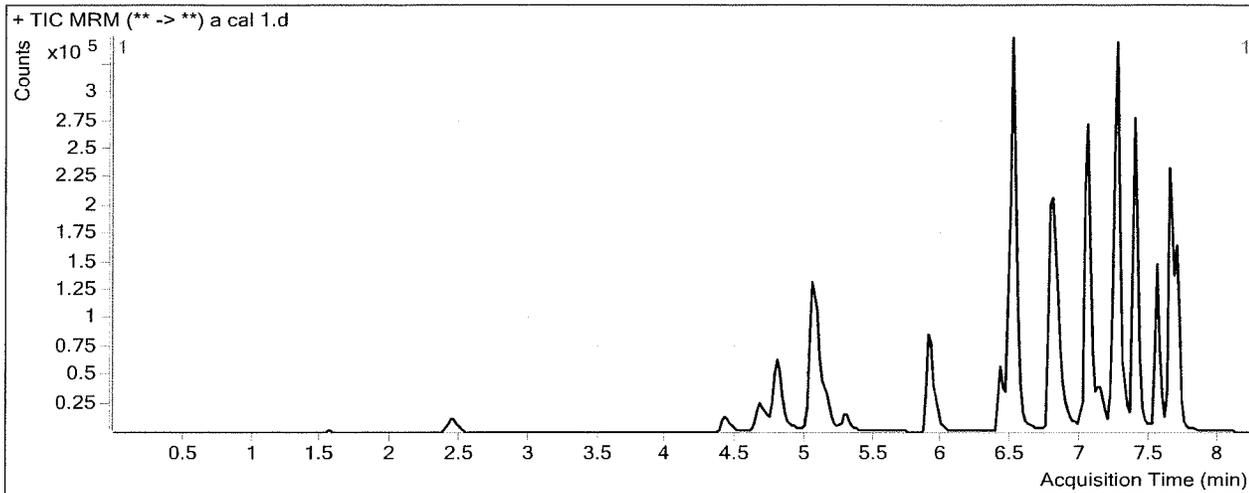
Sample Chromatogram

+ TIC MRM (** -> **) a cal 1.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.568	1365	3866	0.3531	6.4045
Hydromorphone	Hydromorphone-D6	2.467	6730	50810	0.1324	5.9660
Codeine	Codeine-D6	4.473	3243	27147	0.1194	7.0595
Oxycodone	Oxycodone-D6	4.830	15421	176728	0.0873	6.2851
Amphetamine	Amphetamine-D11	4.804	97643	101813	0.9590	3.9419
Hydrocodone	Hydrocodone-D6	5.095	10251	133686	0.0767	5.0928
Norhydrocodone	Norhydrocodone-D3	5.159	773	51980	0.0149	11.3194
Methamphetamine	Methamphetamine-D11	5.162	55165	379705	0.1453	5.2484
6-MAM	6-MAM-D6	5.289	497	41953	0.0118	0.8528
Phentermine	Phentermine-D5	5.946	8541	315841	0.0270	4.9099
Dextrorphan	Dextrorphan-D3	6.423	8141	151067	0.0539	5.8526
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	12428	130874	0.0950	4.6756
Tramadol	Tramadol-13C-D3	6.521	88462	906427	0.0976	5.1519
Doxylamine	Doxylamine-D5	6.802	64209	816818	0.0786	5.0271
Bupropion	Bupropion-D9	7.051	616	4921	0.1251	4.6009
Zolpidem	Zolpidem-D6	7.062	67900	813794	0.0834	5.0657
Meprobamate	Meprobamate-D7	7.153	4739	70225	0.0675	6.1963
Trazodone	Trazodone-D6	7.235	28802	289431	0.0995	4.6763
Venlafaxine	Venlafaxine-D6	7.266	66607	730097	0.0912	5.4295
Citalopram	Citalopram-D6	7.358	24982	283279	0.0882	5.4932
Dextromethorphan	Dextromethorphan-D3	7.388	2996	47094	0.0636	7.3968
Diphenhydramine	Diphenhydramine-D3	7.392	31905	390877	0.0816	5.5231
Promethazine	Promethazine-D3	7.546	24552	290003	0.0847	6.4505

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	4524	14125	0.3203	5.5503
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.620	928	23619	0.0393	0.4139
Carisoprodol	Carisoprodol-D7	7.652	29751	423753	0.0702	5.6282
Lorazepam	Alprazolam-D5	7.683	1968	264029	0.0075	20.0054
Alprazolam	Alprazolam-D5	7.706	26532	264029	0.1005	5.8380

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

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 15:37	**Data File**	a cal 2.d
Sample Type	Calibration	**Sample Name**	a cal 2-10ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-B1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28 - 3mm draw
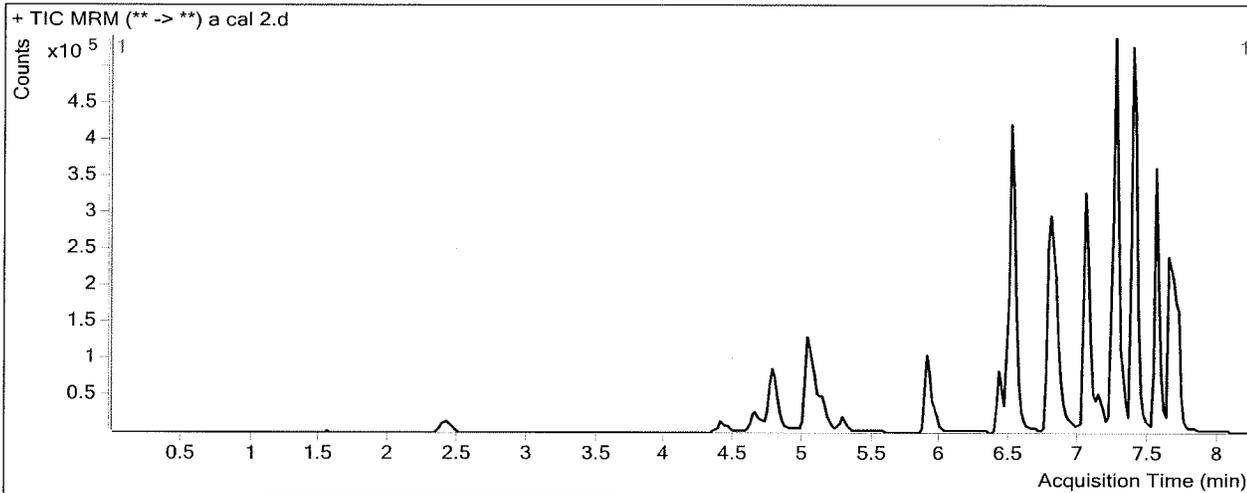
Sample Chromatogram

+ TIC MRM (** -> **) a cal 2.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.548	2918	3840	0.7601	10.8086
Hydromorphone	Hydromorphone-D6	2.427	14163	54378	0.2605	10.0333
Codeine	Codeine-D6	4.453	6438	30157	0.2135	10.5629
Oxycodone	Oxycodone-D6	4.810	32118	186491	0.1722	10.1971
Amphetamine	Amphetamine-D11	4.784	156523	114339	1.3689	8.9420
Hydrocodone	Hydrocodone-D6	5.075	20739	145076	0.1430	9.2283
Norhydrocodone	Norhydrocodone-D3	5.138	1771	58217	0.0304	14.8676
Methamphetamine	Methamphetamine-D11	5.141	96455	349671	0.2758	10.0746
6-MAM	6-MAM-D6	5.289	1043	46965	0.0222	1.2446
Phentermine	Phentermine-D5	5.946	18990	360522	0.0527	9.6355
Dextrorphan	Dextrorphan-D3	6.423	21748	200353	0.1085	9.9823
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	25300	135980	0.1861	9.1112
Tramadol	Tramadol-13C-D3	6.521	202722	1058474	0.1915	9.6977
Doxylamine	Doxylamine-D5	6.822	151835	829883	0.1830	10.5261
Bupropion	Bupropion-D9	7.071	1085	5172	0.2099	11.1412
Zolpidem	Zolpidem-D6	7.062	142624	891604	0.1600	9.5438
Meprobamate	Meprobamate-D7	7.173	10304	78958	0.1305	10.0510
Trazodone	Trazodone-D6	7.255	87624	458046	0.1913	9.2112
Venlafaxine	Venlafaxine-D6	7.266	165303	924937	0.1787	9.6125
Citalopram	Citalopram-D6	7.378	92955	523791	0.1775	9.8078
Dextromethorphan	Dextromethorphan-D3	7.388	16517	98513	0.1677	11.8670
Diphenhydramine	Diphenhydramine-D3	7.412	125969	723374	0.1741	10.1205
Promethazine	Promethazine-D3	7.546	109656	686772	0.1597	10.2284

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	9273	16153	0.5741	9.3058
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.640	4789	23960	0.1999	7.6796
Carisoprodol	Carisoprodol-D7	7.672	59658	457076	0.1305	9.5339
Lorazepam	Alprazolam-D5	7.683	3720	277377	0.0134	22.3000
Alprazolam	Alprazolam-D5	7.706	57572	277377	0.2076	10.1812

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

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 15:50	**Data File**	a cal 3.d
Sample Type	Calibration	**Sample Name**	a cal 3-25ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-C1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
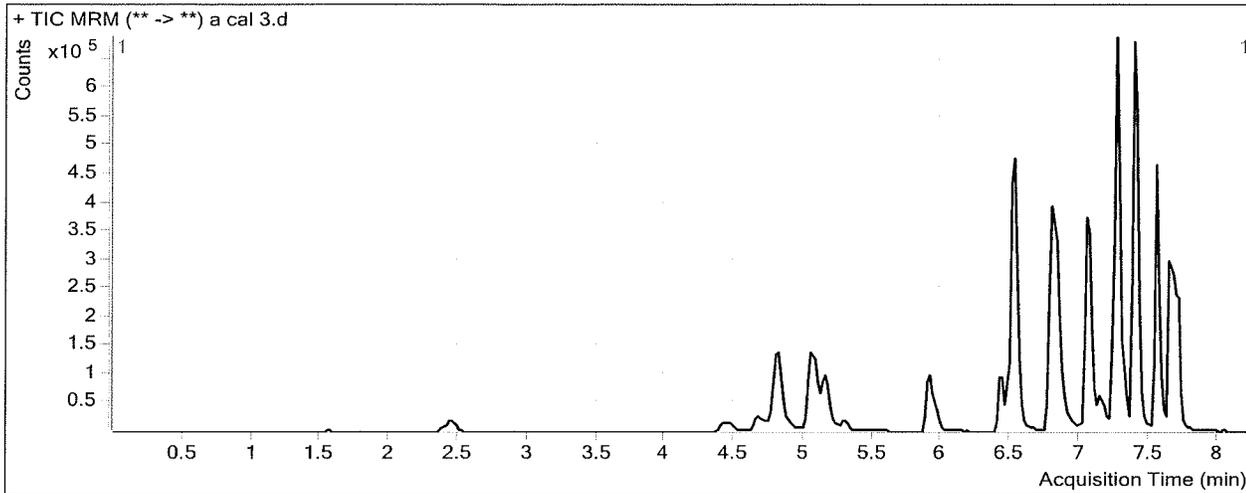
Sample Chromatogram

+ TIC MRM (** -> **) a cal 3.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.568	7358	3727	1.9740	23.9428
Hydromorphone	Hydromorphone-D6	2.447	37082	54260	0.6834	23.4730
Codeine	Codeine-D6	4.473	16180	26804	0.6036	25.1006
Oxycodone	Oxycodone-D6	4.830	84970	187082	0.4542	23.1784
Amphetamine	Amphetamine-D11	4.824	303997	112583	2.7002	25.1813
Hydrocodone	Hydrocodone-D6	5.095	56298	141938	0.3966	25.0578
Norhydrocodone	Norhydrocodone-D3	5.159	4572	54611	0.0837	27.0286
Methamphetamine	Methamphetamine-D11	5.162	258690	395068	0.6548	24.0825
6-MAM	6-MAM-D6	5.309	2281	43390	0.0526	2.3912
Phentermine	Phentermine-D5	5.966	47656	364437	0.1308	24.0319
Dextrorphan	Dextrorphan-D3	6.423	54155	185001	0.2927	23.8989
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	67081	130577	0.5137	25.0659
Tramadol	Tramadol-13C-D3	6.521	510216	966246	0.5280	25.9840
Doxylamine	Doxylamine-D5	6.822	441978	979165	0.4514	24.6711
Bupropion	Bupropion-D9	7.091	1561	4183	0.3731	23.7379
Zolpidem	Zolpidem-D6	7.062	370626	867937	0.4270	25.1710
Meprobamate	Meprobamate-D7	7.173	26001	76435	0.3402	22.8764
Trazodone	Trazodone-D6	7.255	224983	455519	0.4939	24.1625
Venlafaxine	Venlafaxine-D6	7.266	398307	799945	0.4979	24.8745
Citalopram	Citalopram-D6	7.378	235042	488919	0.4807	24.4643
Dextromethorphan	Dextromethorphan-D3	7.388	46292	95566	0.4844	25.4768
Diphenhydramine	Diphenhydramine-D3	7.412	340812	716024	0.4760	25.1199
Promethazine	Promethazine-D3	7.546	314112	677487	0.4636	25.5386

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	26080	8203	3.1791	47.8563
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.640	11763	15227	0.7725	33.5882
Carisoprodol	Carisoprodol-D7	7.672	163193	434531	0.3756	25.4019
Lorazepam	Alprazolam-D5	7.683	9379	265388	0.0353	30.7449
Alprazolam	Alprazolam-D5	7.706	144525	265388	0.5446	23.8524

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

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 16:03	**Data File**	a cal 4.d
Sample Type	Calibration	**Sample Name**	a cal 4-50ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-D1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
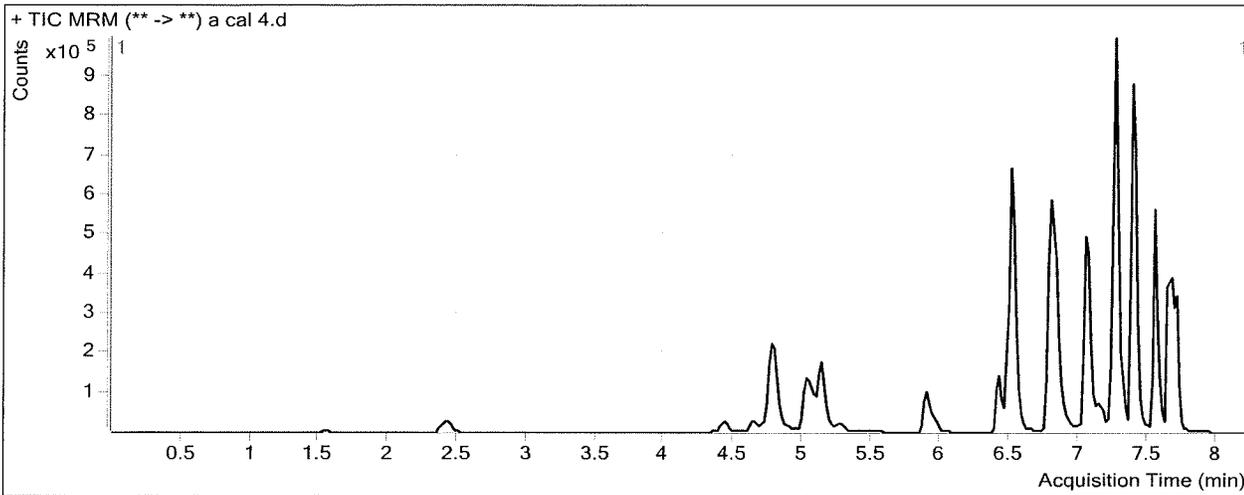
Sample Chromatogram

+ TIC MRM (** -> **) a cal 4.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.548	13349	3170	4.2112	48.1497
Hydromorphone	Hydromorphone-D6	2.427	67269	48238	1.3945	46.0696
Codeine	Codeine-D6	4.432	32334	25985	1.2444	48.9739
Oxycodone	Oxycodone-D6	4.790	171120	183699	0.9315	45.1546
Amphetamine	Amphetamine-D11	4.784	537257	104534	5.1396	54.9375
Hydrocodone	Hydrocodone-D6	5.075	108563	135565	0.8008	50.2785
Norhydrocodone	Norhydrocodone-D3	5.138	8836	49446	0.1787	48.6983
Methamphetamine	Methamphetamine-D11	5.141	505048	379037	1.3325	49.1317
6-MAM	6-MAM-D6	5.289	4521	40366	0.1120	4.6356
Phentermine	Phentermine-D5	5.946	99936	349662	0.2858	52.6149
Dextrorphan	Dextrorphan-D3	6.423	110159	182477	0.6037	47.3948
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	131661	126325	1.0422	50.7999
Tramadol	Tramadol-13C-D3	6.521	1002434	1029635	0.9736	47.5468
Doxylamine	Doxylamine-D5	6.802	913136	971672	0.9398	50.4070
Bupropion	Bupropion-D9	7.071	3424	5257	0.6514	45.2111
Zolpidem	Zolpidem-D6	7.062	723420	870466	0.8311	48.8148
Meprobamate	Meprobamate-D7	7.173	49274	67246	0.7327	46.8894
Trazodone	Trazodone-D6	7.255	448984	438340	1.0243	50.3674
Venlafaxine	Venlafaxine-D6	7.266	838238	776377	1.0797	52.6903
Citalopram	Citalopram-D6	7.378	462264	463180	0.9980	49.4637
Dextromethorphan	Dextromethorphan-D3	7.388	81238	84839	0.9576	45.8078
Diphenhydramine	Diphenhydramine-D3	7.412	631995	691301	0.9142	46.8973
Promethazine	Promethazine-D3	7.546	520378	659224	0.7894	41.9448

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	48456	15941	3.0396	45.7928
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.640	22660	22056	1.0274	45.1195
Carisoprodol	Carisoprodol-D7	7.672	253155	394724	0.6413	42.6131
Lorazepam	Alprazolam-D5	7.683	19087	245400	0.0778	47.0901
Alprazolam	Alprazolam-D5	7.706	268260	245400	1.0932	46.1051

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin	
Analysis Time	5/9/2017 12:50 PM	**Analyst Name** ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name** ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State** Processed

Analysis Info

Acq Time	2017-05-04 16:15	**Data File**	a cal 5.d
Sample Type	Calibration	**Sample Name**	a cal 5-100ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-E1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
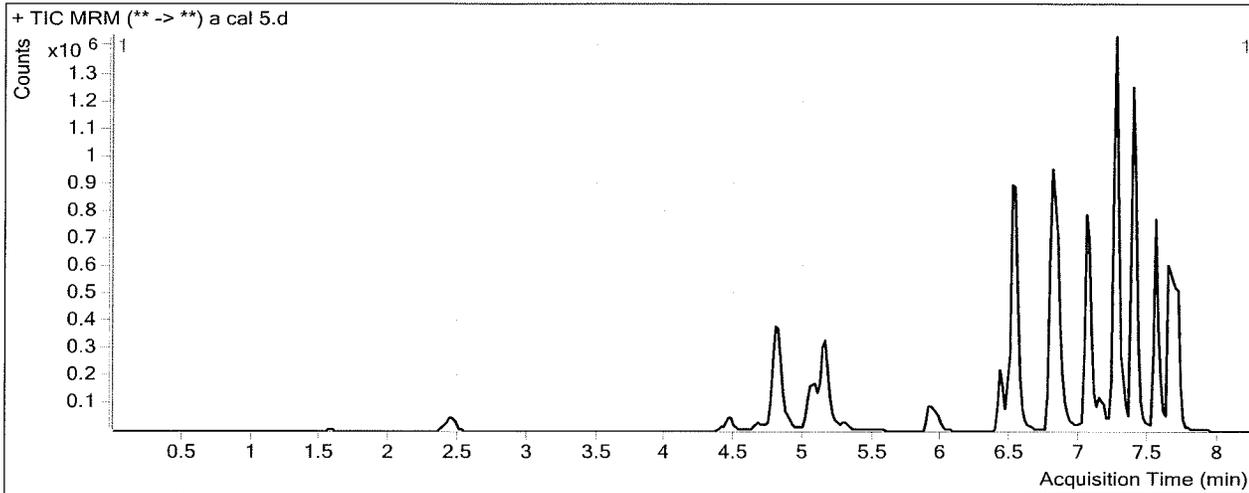
Sample Chromatogram

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.568	27646	3189	8.6679	96.3706
Hydromorphone	Hydromorphone-D6	2.447	140593	47333	2.9703	96.1406
Codeine	Codeine-D6	4.453	62248	24801	2.5099	96.1278
Oxycodone	Oxycodone-D6	4.810	348565	182026	1.9149	90.4296
Amphetamine	Amphetamine-D11	4.804	927777	102485	9.0528	102.6732
Hydrocodone	Hydrocodone-D6	5.075	217642	133558	1.6296	101.9916
Norhydrocodone	Norhydrocodone-D3	5.159	16760	45499	0.3684	91.9694
Methamphetamine	Methamphetamine-D11	5.162	1023413	382055	2.6787	98.8955
6-MAM	6-MAM-D6	5.289	9613	40937	0.2348	9.2745
Phentermine	Phentermine-D5	5.946	184390	331156	0.5568	102.5747
Dextrorphan	Dextrorphan-D3	6.423	203820	162648	1.2531	96.4667
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	264982	119112	2.2246	108.3729
Tramadol	Tramadol-13C-D3	6.521	1916963	928386	2.0648	100.3598
Doxylamine	Doxylamine-D5	6.802	1613009	916798	1.7594	93.5995
Bupropion	Bupropion-D9	7.071	9975	6405	1.5574	115.1229
Zolpidem	Zolpidem-D6	7.062	1451474	807526	1.7974	105.3630
Meprobamate	Meprobamate-D7	7.173	107302	73445	1.4610	91.4349
Trazodone	Trazodone-D6	7.255	827823	365665	2.2639	111.6140
Venlafaxine	Venlafaxine-D6	7.266	1514021	775266	1.9529	94.4420
Citalopram	Citalopram-D6	7.358	790746	398165	1.9860	97.2096
Dextromethorphan	Dextromethorphan-D3	7.388	158831	79278	2.0035	90.7499
Diphenhydramine	Diphenhydramine-D3	7.412	1134443	590131	1.9224	96.9960
Promethazine	Promethazine-D3	7.546	1054269	592029	1.7808	91.8780

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	97213	13894	6.9967	104.3512
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.640	48582	21986	2.2097	98.6127
Carisoprodol	Carisoprodol-D7	7.672	569523	357565	1.5928	104.2249
Lorazepam	Alprazolam-D5	7.683	36857	223196	0.1651	80.7346
Alprazolam	Alprazolam-D5	7.706	517902	223196	2.3204	95.8876

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 16:28	**Data File**	a cal 6.d
Sample Type	Calibration	**Sample Name**	a cal 6-250ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-F1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
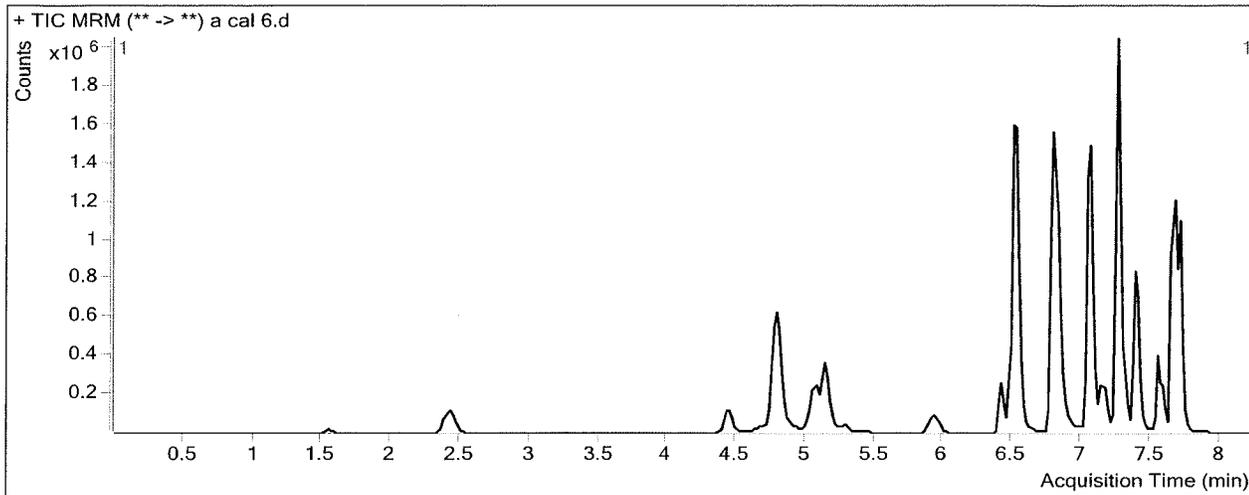
Sample Chromatogram

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.548	67983	2839	23.9420	261.6362
Hydromorphone	Hydromorphone-D6	2.427	348849	45526	7.6627	245.2430
Codeine	Codeine-D6	4.453	160262	24612	6.5116	245.2303
Oxycodone	Oxycodone-D6	4.810	918484	167590	5.4805	254.5885
Amphetamine	Amphetamine-D11	4.784	1374057	66772	20.5784	243.2659
Hydrocodone	Hydrocodone-D6	5.075	516783	122689	4.2122	263.1415
Norhydrocodone	Norhydrocodone-D3	5.138	37644	34722	1.0842	255.2935
Methamphetamine	Methamphetamine-D11	5.141	1036814	153216	6.7670	250.0181
6-MAM	6-MAM-D6	5.289	22745	38311	0.5937	22.8282
Phentermine	Phentermine-D5	5.946	269177	193553	1.3907	256.3101
Dextrorphan	Dextrorphan-D3	6.423	275741	87232	3.1610	240.6243
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	597789	110478	5.4109	263.5173
Tramadol	Tramadol-13C-D3	6.521	4161866	793872	5.2425	254.1477
Doxylamine	Doxylamine-D5	6.802	3153703	667850	4.7222	249.7288
Bupropion	Bupropion-D9	7.071	8867	2790	3.1781	240.1861
Zolpidem	Zolpidem-D6	7.062	3380107	786019	4.3003	251.8216
Meprobamate	Meprobamate-D7	7.173	303946	74051	4.1045	253.1364
Trazodone	Trazodone-D6	7.255	977416	175827	5.5590	274.4186
Venlafaxine	Venlafaxine-D6	7.266	2782217	553511	5.0265	241.3996
Citalopram	Citalopram-D6	7.378	691664	135466	5.1058	247.9862
Dextromethorphan	Dextromethorphan-D3	7.388	107071	19601	5.4626	239.3846
Diphenhydramine	Diphenhydramine-D3	7.412	954616	196134	4.8672	243.3337
Promethazine	Promethazine-D3	7.546	622860	136749	4.5548	231.5951

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	258700	7822	33.0730	490.2456
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.640	131748	11939	11.0350	497.9064
Carisoprodol	Carisoprodol-D7	7.672	1262504	325050	3.8840	252.5981
Lorazepam	Alprazolam-D5	7.683	110082	186805	0.5893	244.0973
Alprazolam	Alprazolam-D5	7.706	1113430	186805	5.9604	243.5426

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin	
Analysis Time	5/9/2017 12:50 PM	**Analyst Name** ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name** ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State** Processed

Analysis Info

Acq Time	2017-05-04 16:41	**Data File**	a cal 7.d
Sample Type	Calibration	**Sample Name**	a cal 7-500ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-G1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
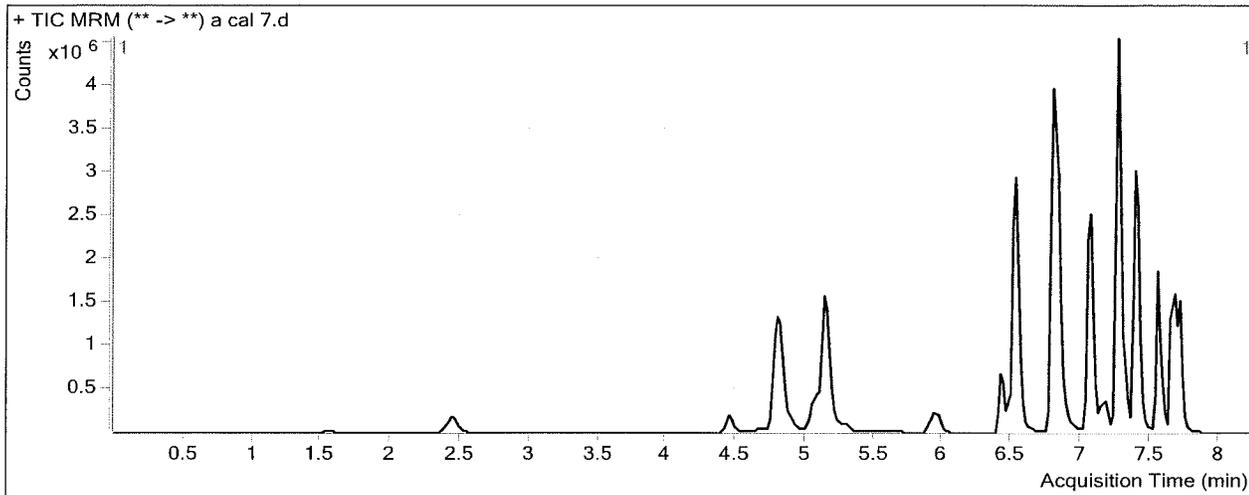
Sample Chromatogram

+ TIC MRM (** -> **) a cal 7.d

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.548	115020	2532	45.4259	494.0921
Hydromorphone	Hydromorphone-D6	2.447	614915	40209	15.2929	487.6983
Codeine	Codeine-D6	4.453	257038	18913	13.5909	509.0045
Oxycodone	Oxycodone-D6	4.810	1620774	162941	9.9470	460.2197
Amphetamine	Amphetamine-D11	4.804	3515914	104564	33.6245	402.4077
Hydrocodone	Hydrocodone-D6	5.075	890393	112756	7.8966	493.0480
Norhydrocodone	Norhydrocodone-D3	5.138	62572	28895	2.1655	502.0101
Methamphetamine	Methamphetamine-D11	5.141	5275182	385762	13.6747	505.3585
6-MAM	6-MAM-D6	5.289	41992	34641	1.2122	46.1881
Phentermine	Phentermine-D5	5.946	832497	318325	2.6152	482.0582
Dextrorphan	Dextrorphan-D3	6.423	827157	129485	6.3880	484.4581
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	946659	88844	10.6553	518.8748
Tramadol	Tramadol-13C-D3	6.521	8139176	800923	10.1622	492.2477
Doxylamine	Doxylamine-D5	6.802	8387031	874921	9.5860	506.0403
Bupropion	Bupropion-D9	7.071	110389	12725	8.6747	664.3278
Zolpidem	Zolpidem-D6	7.062	6022257	713312	8.4427	494.2202
Meprobamate	Meprobamate-D7	7.173	476604	62775	7.5922	466.4710
Trazodone	Trazodone-D6	7.255	2894516	291476	9.9306	490.4109
Venlafaxine	Venlafaxine-D6	7.266	6566612	652164	10.0690	482.4962
Citalopram	Citalopram-D6	7.378	2537315	254468	9.9711	483.1137
Dextromethorphan	Dextromethorphan-D3	7.388	536437	47364	11.3258	491.3187
Diphenhydramine	Diphenhydramine-D3	7.412	4022466	413150	9.7361	485.2892
Promethazine	Promethazine-D3	7.546	3193517	359900	8.8733	449.1072

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	402225	11238	35.7922	530.4861
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.640	221155	10069	21.9636	992.3607
Carisoprodol	Carisoprodol-D7	7.672	1785738	234739	7.6073	493.7056
Lorazepam	Alprazolam-D5	7.682	182732	139309	1.3117	522.3331
Alprazolam	Alprazolam-D5	7.706	1678281	139309	12.0472	490.4532

Batch Data Path	D:\2017 Data\5317 mdq p1 reinjections\QuantResults\5-3-17 mdq1a reinject.batch.bin		
Analysis Time	5/9/2017 12:50 PM	**Analyst Name**	ISP Tox
Report Time	5/9/2017 12:54 PM	**Reporter Name**	ISP Tox
Last Calib Update	5/9/2017 12:50 PM	**Batch State**	Processed

Analysis Info

Acq Time	2017-05-04 16:53	**Data File**	a cal 8.d
Sample Type	Calibration	**Sample Name**	a cal 8-1000ng/mL
Dilution	1	**Acq Method**	Quant Panel 1a 2-13-17 reinjections.m
Position	P1-H1	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28- 3mm draw
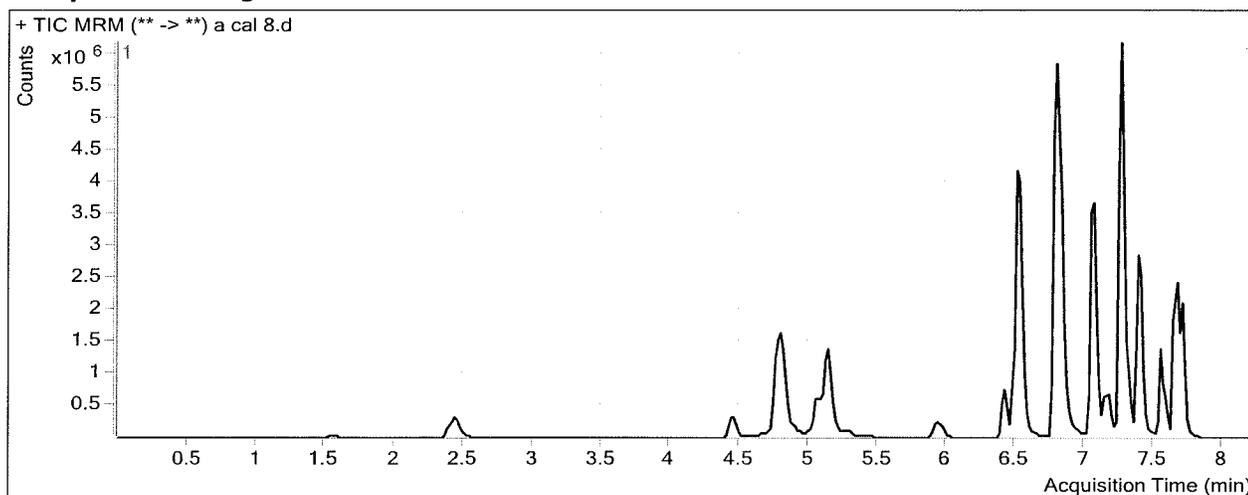
Sample Chromatogram

Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Morphine	Morphine-D6	1.548	190802	1997	95.5474	1036.4050
Hydromorphone	Hydromorphone-D6	2.427	1014312	31487	32.2140	1025.3761
Codeine	Codeine-D6	4.453	443471	14934	29.6954	1109.0577
Oxycodone	Oxycodone-D6	4.810	2922849	128442	22.7562	1049.9469
Amphetamine	Amphetamine-D11	4.784	4026355	62248	64.6822	781.2616
Hydrocodone	Hydrocodone-D6	5.075	1509390	94958	15.8954	992.1617
Norhydrocodone	Norhydrocodone-D3	5.138	107722	20274	5.3134	1220.2430
Methamphetamine	Methamphetamine-D11	5.141	4331236	160534	26.9802	997.1909
6-MAM	6-MAM-D6	5.289	70813	26037	2.7197	103.1259
Phentermine	Phentermine-D5	5.946	959781	175563	5.4669	1007.7748
Dextrorphan	Dextrorphan-D3	6.423	922306	67690	13.6255	1031.3223
7-aminoclonazepam	7-Aminoclonazepam-D4	6.495	1356966	68859	19.7063	959.5824
Tramadol	Tramadol-13C-D3	6.521	12958058	624358	20.7542	1004.8644
Doxylamine	Doxylamine-D5	6.802	12862121	528240	24.3490	1284.0055
Bupropion	Bupropion-D9	7.071	48570	2224	21.8418	1680.3659
Zolpidem	Zolpidem-D6	7.062	9602514	531094	18.0806	1058.2010
Meprobamate	Meprobamate-D7	7.173	938880	55174	17.0166	1042.9445
Trazodone	Trazodone-D6	7.235	4121222	208762	19.7412	975.1391
Venlafaxine	Venlafaxine-D6	7.266	9951844	462874	21.5001	1029.0554
Citalopram	Citalopram-D6	7.358	2632378	124573	21.1312	1022.4615
Dextromethorphan	Dextromethorphan-D3	7.388	434131	18186	23.8715	1030.3952
Diphenhydramine	Diphenhydramine-D3	7.412	3926326	190308	20.6315	1026.7203
Promethazine	Promethazine-D3	7.546	2540967	118383	21.4640	1083.2574

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Clonazepam	Clonazepam-D4	7.583	665216	9045	73.5427	1089.1421
a-hydroxyalprazolam	a-hydroxyalprazolam-D5	7.640	386912	7174	53.9354	2438.9026
Carisoprodol	Carisoprodol-D7	7.672	2255324	166330	13.5593	879.1387
Lorazepam	Alprazolam-D5	7.683	307210	93506	3.2854	1282.5137
Alprazolam	Alprazolam-D5	7.706	2356698	93506	25.2037	1024.1400