










Reviewed on 2/28/17 

reviewed 3/4/17 

2/24/2017

Worklist: 1541

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-0146	1	76658	AM 13 Urine LCMS-QQQ Benz	
C2017-0278	1	77635	AM 13 Urine LCMS-QQQ Benz	
C2017-0294	1	77639	AM 13 Urine LCMS-QQQ Benz	
C2017-0315	2	77636	AM 13 Urine LCMS-QQQ Benz	
C2017-0318	1	77637	AM 13 Urine LCMS-QQQ Benz	
C2017-0337	1	77638	AM 13 Urine LCMS-QQQ Benz	
M2017-0489	2	76657	AM 13 Urine LCMS-QQQ Benz	



ISP FORENSICS - Cd'A Instrument # 62340

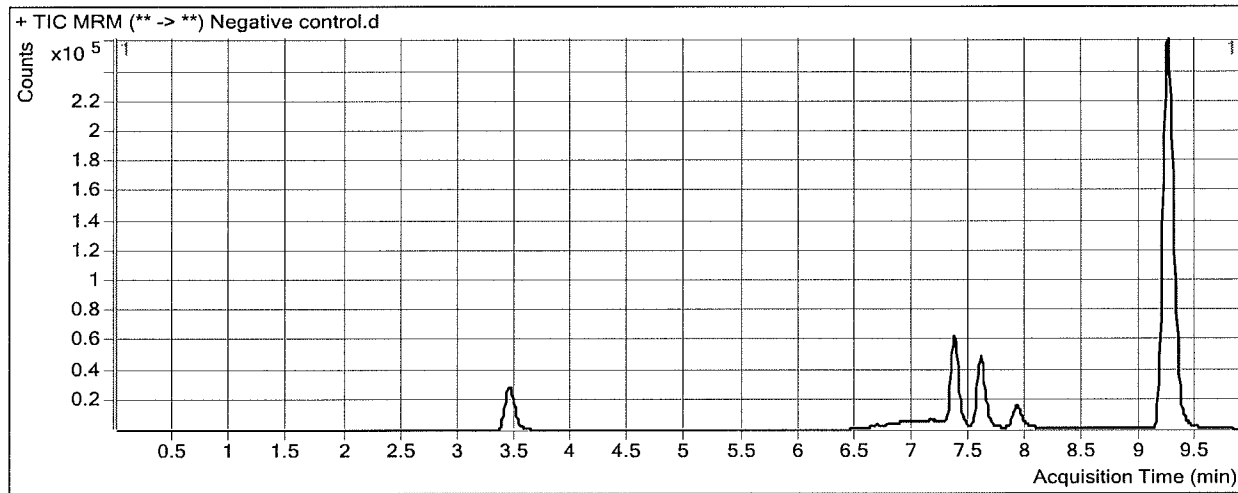
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 11:48 **Data File** Negative control.d
Sample Type Sample **Sample Name** Negative control
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B3 **Sample Info** lot 12517
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



ISP FORENSICS - Cd'A Instrument # 62340

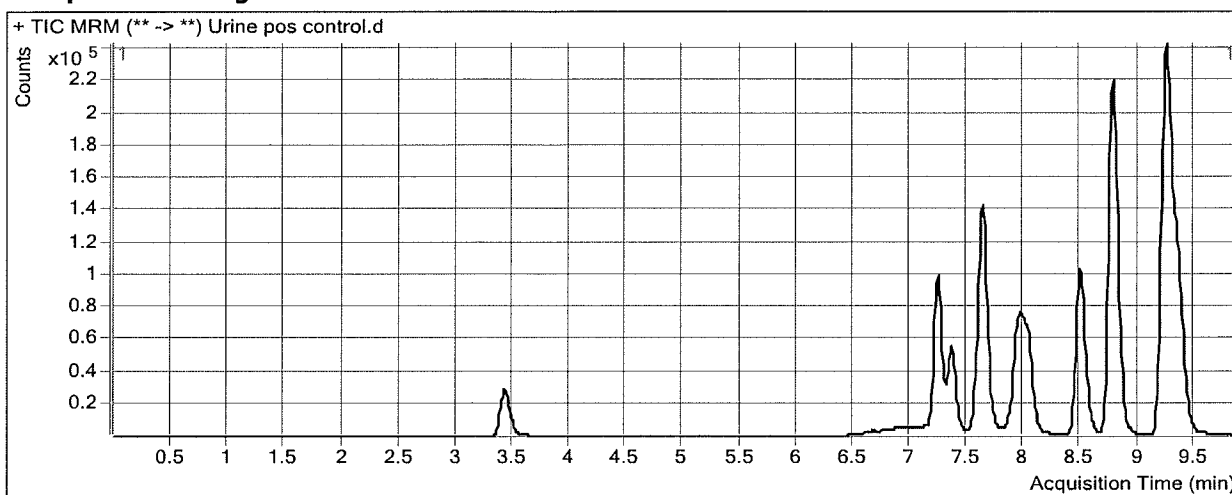
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 12:03 **Data File** Urine pos control.d
Sample Type Sample **Sample Name** Urine pos control
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B4 **Sample Info** 300 ng/ml benz mix lot FE022207-01 in 12517
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Nitrazepam	Clonazepam-D4 ISTD	7.233	317383	55787	5.6892	426.9745
Oxazepam	Oxazepam D5 ISTD	7.637	391933	97663	4.0131	332.6786
Clonazepam	Clonazepam-D4 ISTD	7.937	203759	55787	3.6525	377.9443
Lorazepam	Oxazepam D5 ISTD	7.985	89230	97663	0.9137	319.6775
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.030	167914	144248	1.1641	335.1408
Flunitrazepam	Clonazepam-D4 ISTD	8.480	436716	55787	7.8283	505.0842
Temazepam	Oxazepam D5 ISTD	8.765	1033083	97663	10.5781	454.4804
Diazepam	Diazepam-D5 ISTD	9.352	408340	804251	0.5077	360.8043

ISP FORENSICS - Cd'A Instrument # 62340

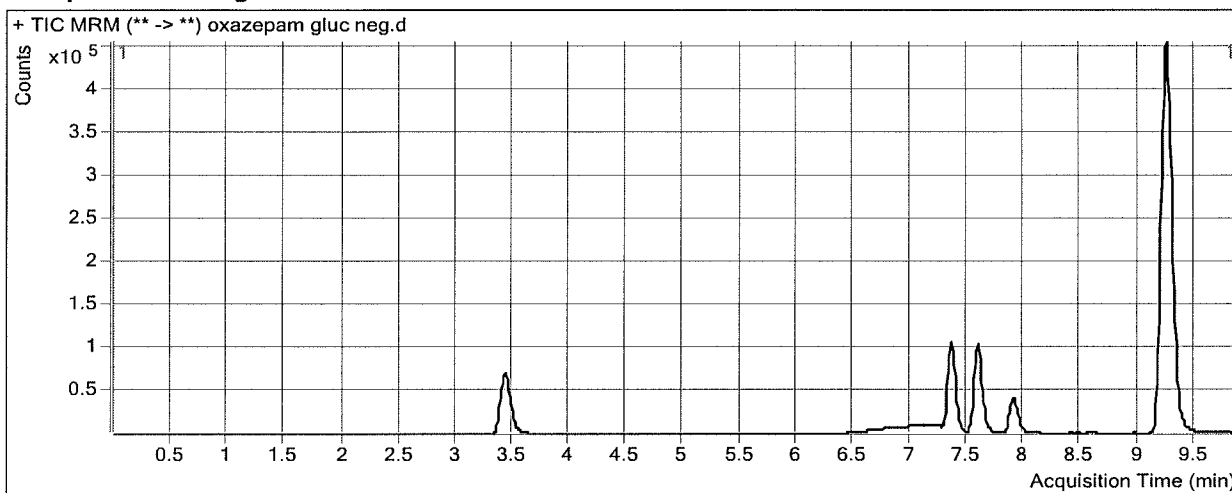
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 11:19 **Data File** oxazepam gluc neg.d
Sample Type Sample **Sample Name** oxazepam gluc neg
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B1 **Sample Info** 300 ng/ml Cerilliant lot FE102612-01 in 12517 without glucuronidase
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam D5 ISTD	7.637	2285	240885	0.0095	3.6080

ISP FORENSICS - Cd'A Instrument # 62340

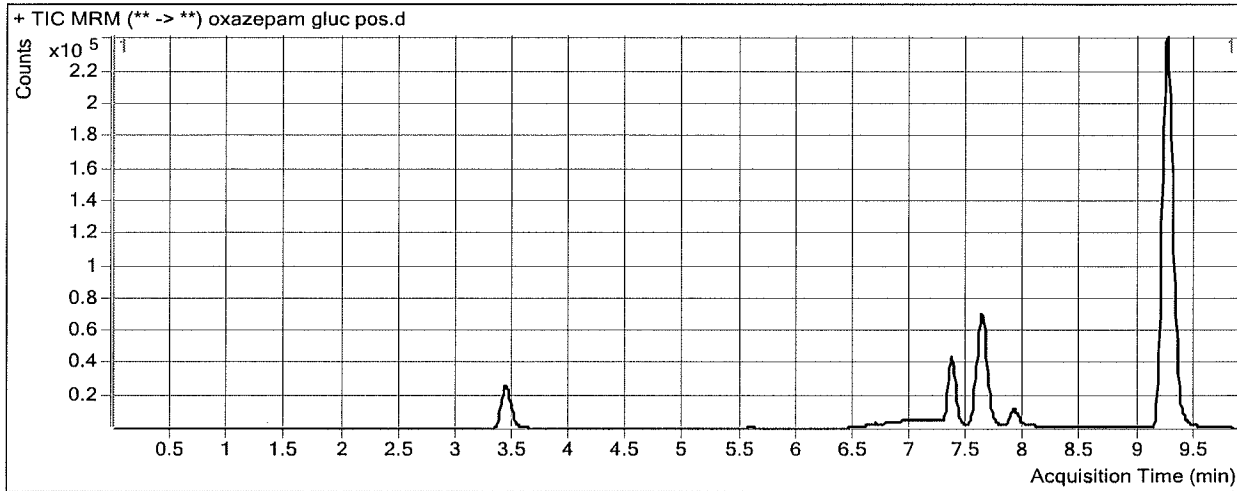
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 11:34 **Data File** oxazepam gluc pos.d
Sample Type Sample **Sample Name** oxazepam gluc pos
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B2 **Sample Info** 300 ng/ml Cerilliant lot FE102612-01 in 125176 with glucuronidase
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam D5 ISTD	7.628	171889	73698	2.3324	192.8142

ISP FORENSICS - Cd'A Instrument # 62340

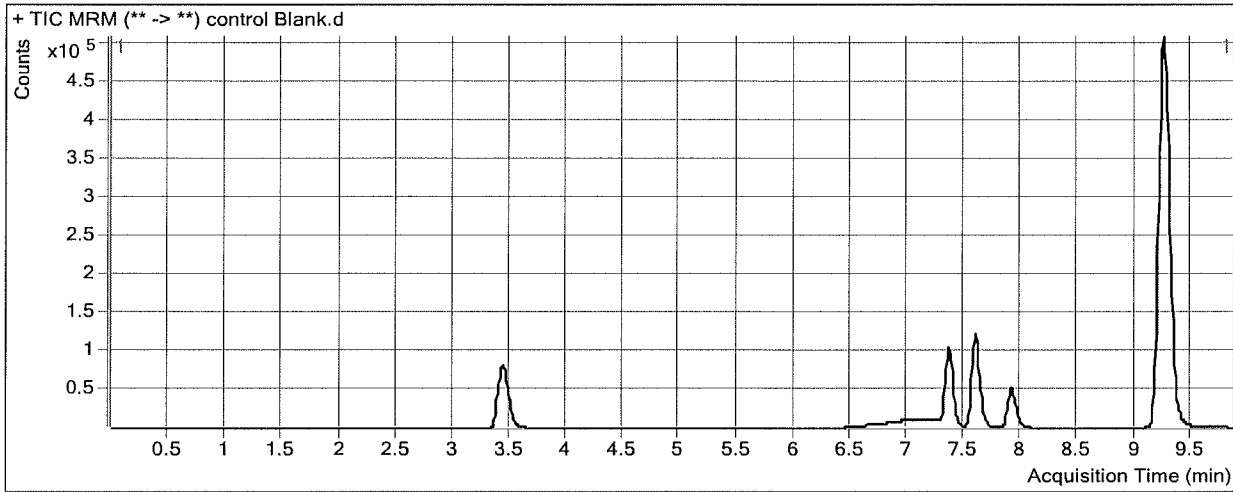
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 12:18 **Data File** control Blank.d
Sample Type Blank **Sample Name** Blank
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A1 **Sample Info**
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram

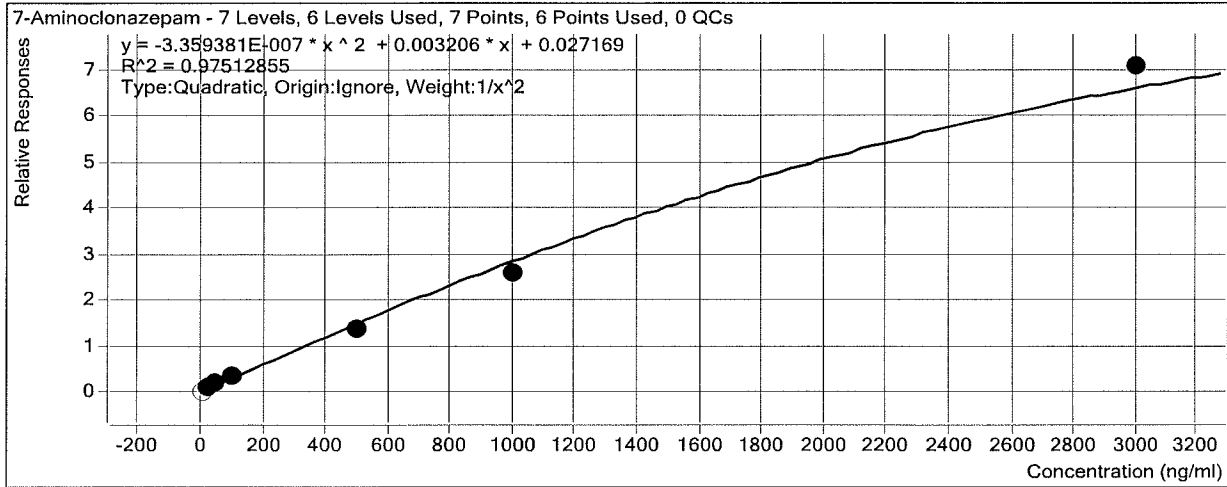


ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound 7-Aminoclonazepam
Internal Standard 7-Aminoflunitrazepam-D7 ISTD



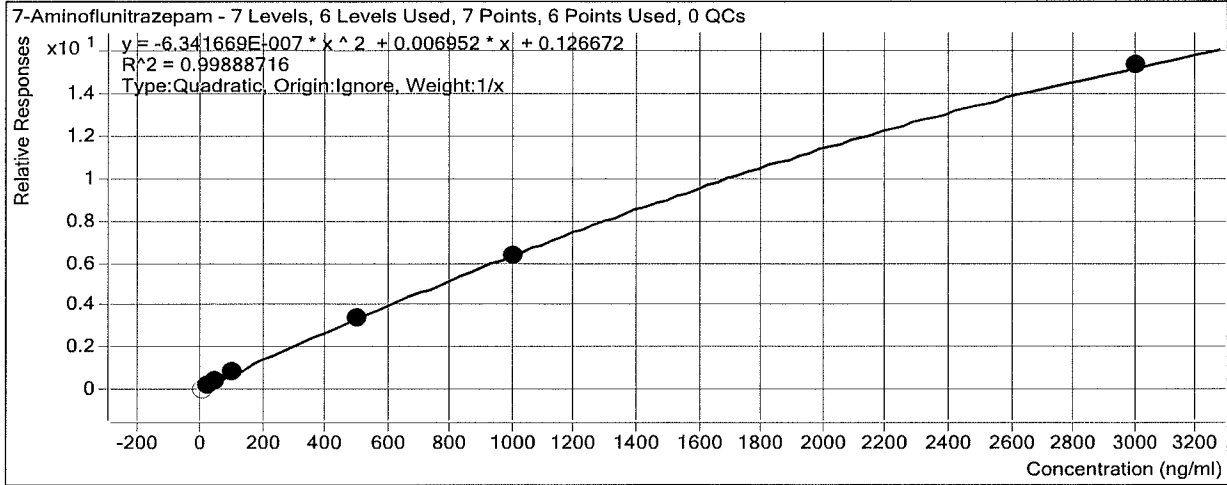
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	1.3	13.3
25 ng/mL	4	<input checked="" type="checkbox"/>	25	22.6	90.3
50 ng/mL	5	<input checked="" type="checkbox"/>	50	58.1	116.2
100 ng/mL	6	<input checked="" type="checkbox"/>	100	109.8	109.8
500 ng/mL	7	<input checked="" type="checkbox"/>	500	440.0	88.0
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	880.8	88.1
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3410.3	113.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound 7-Aminoflunitrazepam
Internal Standard 7-Aminoflunitrazepam-D7 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	20.6	82.3
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.3	106.5
100 ng/mL	6	<input checked="" type="checkbox"/>	100	113.5	113.5
500 ng/mL	7	<input checked="" type="checkbox"/>	500	494.0	98.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	987.1	98.7
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3008.8	100.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

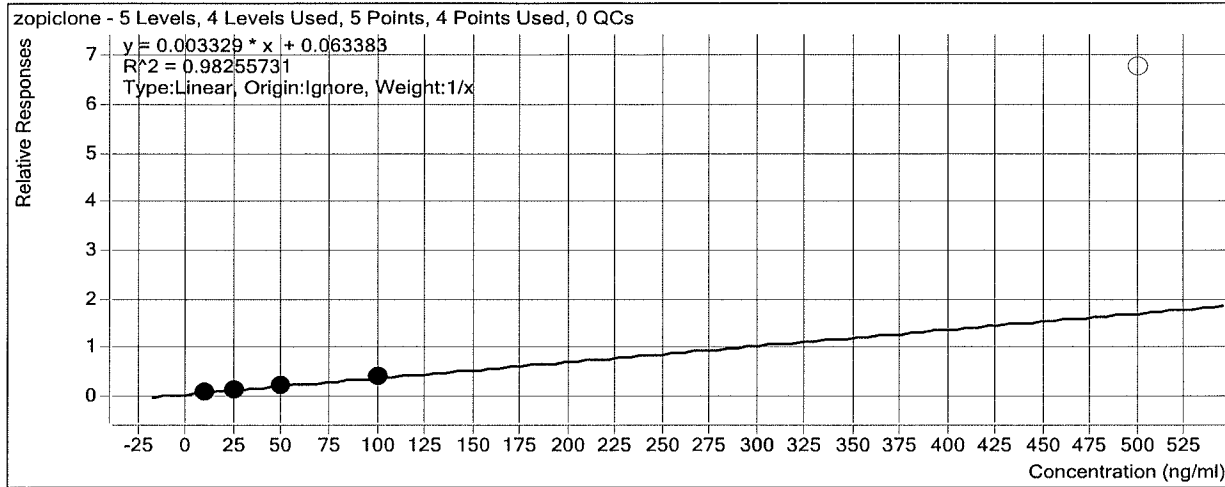
Last Calib Update 2/24/2017 3:50 PM

Analyst Name ISP TOX

Target Compound zopiclone

* Compound was not evaluated in this batch. BAW

Internal Standard Oxazepam D5 ISTD



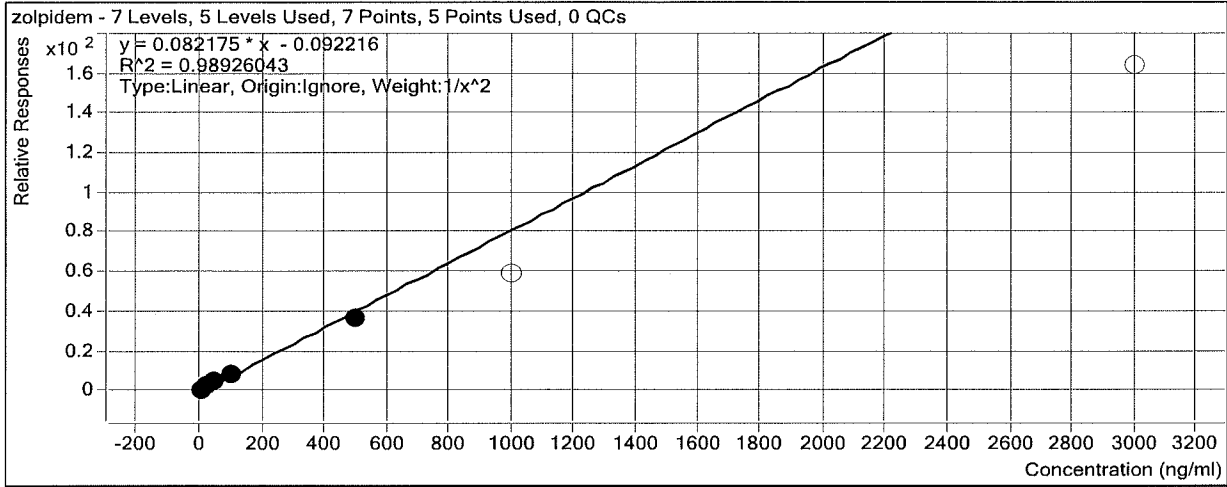
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	11.6	116.3
25 ng/mL	4	<input checked="" type="checkbox"/>	25	19.5	77.8
50 ng/mL	5	<input checked="" type="checkbox"/>	50	52.0	104.0
100 ng/mL	6	<input checked="" type="checkbox"/>	100	101.9	101.9
500 ng/mL	7	<input type="checkbox"/>	500	2013.6	402.7
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	0.0	0.0
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	0.0	0.0

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound *zolpidem*
Internal Standard *Oxazepam D5 ISTD*



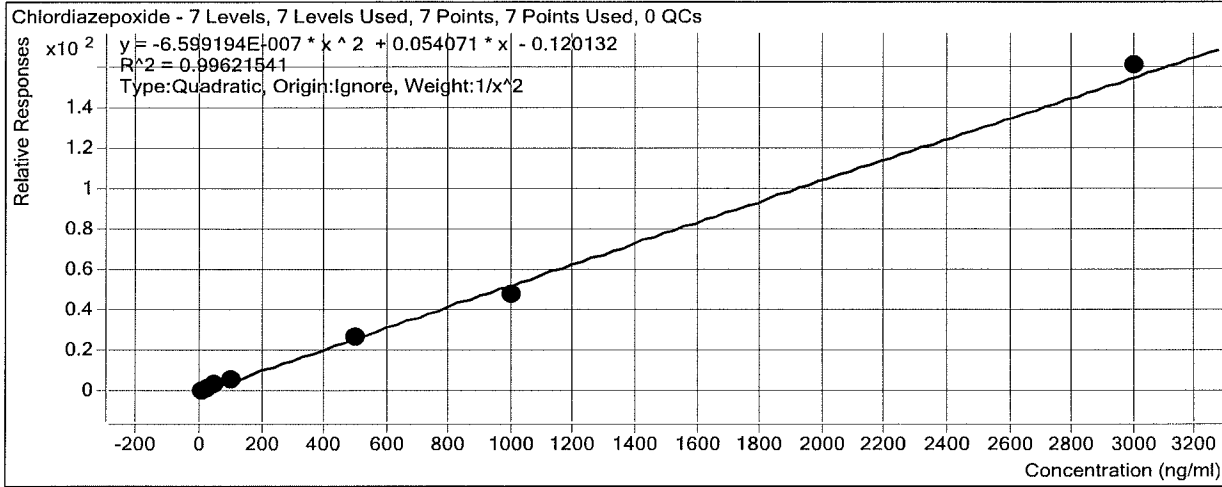
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.6	96.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.5	105.8
50 ng/mL	5	<input checked="" type="checkbox"/>	50	54.7	109.4
100 ng/mL	6	<input checked="" type="checkbox"/>	100	100.6	100.6
500 ng/mL	7	<input checked="" type="checkbox"/>	500	441.0	88.2
1000 ng/mL	8	<input type="checkbox"/>	1000	718.6	71.9
3000 ng/mL	9	<input type="checkbox"/>	3000	1994.6	66.5

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound *Chlordiazepoxide*
Internal Standard *Nordiazepam-D5 ISTD*



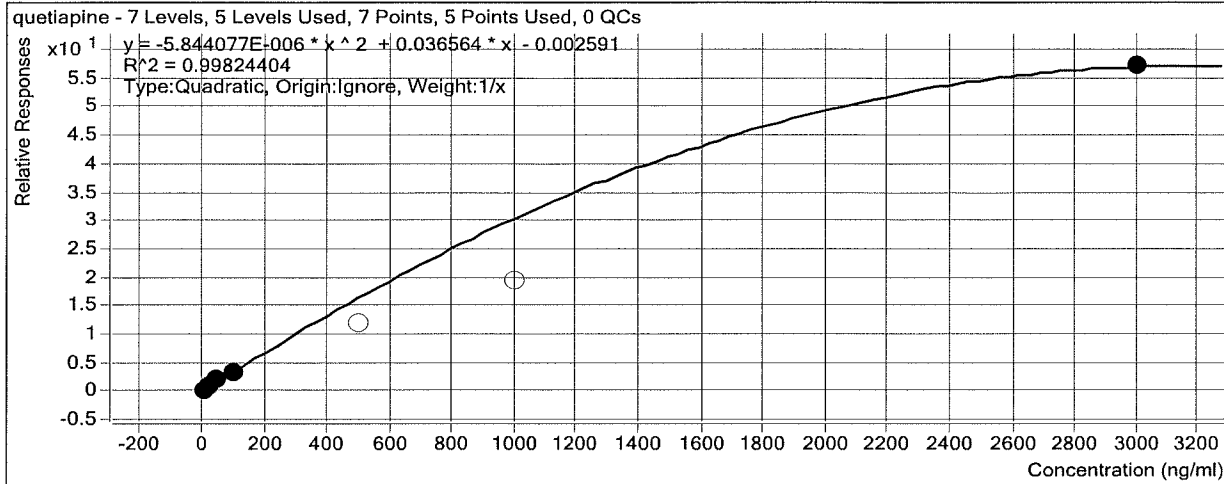
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.7	97.3
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.0	104.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.4	106.8
100 ng/mL	6	<input checked="" type="checkbox"/>	100	98.5	98.5
500 ng/mL	7	<input checked="" type="checkbox"/>	500	498.0	99.6
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	905.1	90.5
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3099.4	103.3

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound *quetiapine*
Internal Standard *Oxazepam D5 ISTD*



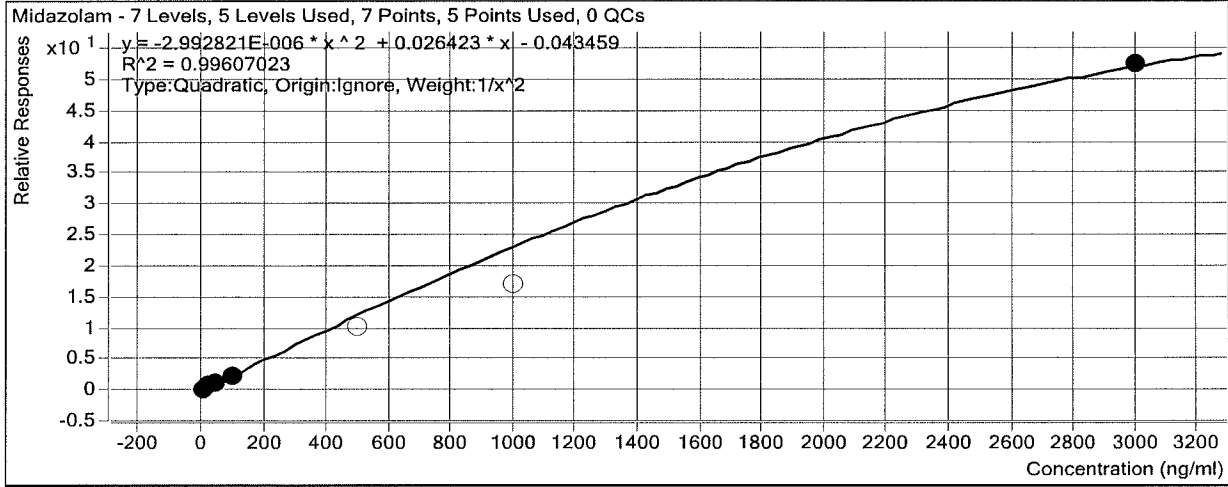
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	<input checked="" type="checkbox"/>	10	8.9	89.2
25 ngmL	4	<input checked="" type="checkbox"/>	25	26.0	104.1
50 ngmL	5	<input checked="" type="checkbox"/>	50	56.9	113.8
100 ngmL	6	<input checked="" type="checkbox"/>	100	93.0	93.0
500 ngmL	7	<input type="checkbox"/>	500	351.7	70.3
1000 ngmL	8	<input type="checkbox"/>	1000	593.0	59.3
3000 ngmL	9	<input checked="" type="checkbox"/>	3000	3002.7	100.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound Midazolam
Internal Standard Clonazepam-D4 ISTD



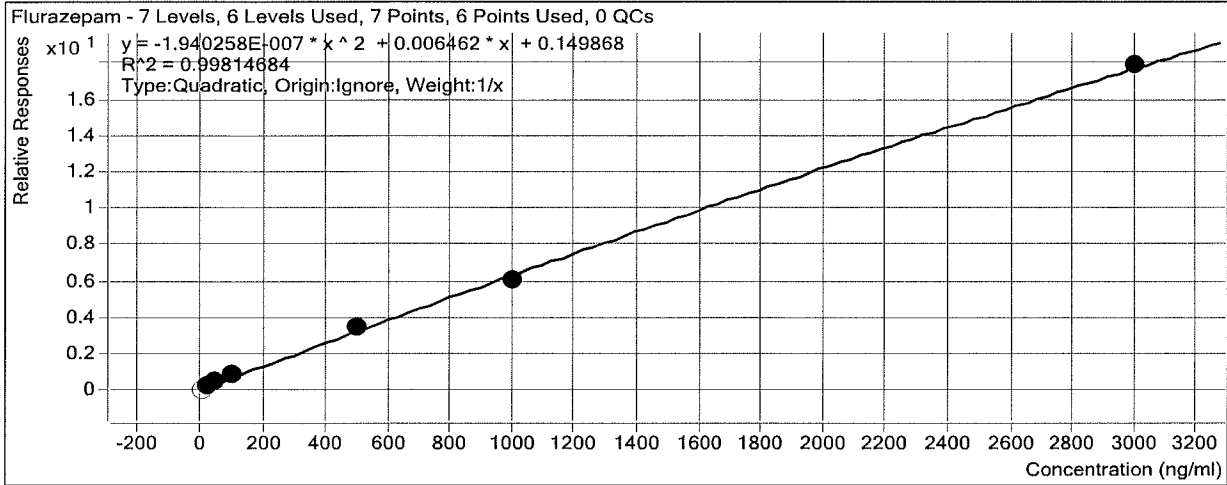
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.8	98.2
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.0	104.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	52.1	104.2
100 ng/mL	6	<input checked="" type="checkbox"/>	100	93.3	93.3
500 ng/mL	7	<input type="checkbox"/>	500	399.0	79.8
1000 ng/mL	8	<input type="checkbox"/>	1000	699.9	70.0
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3011.3	100.4

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

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



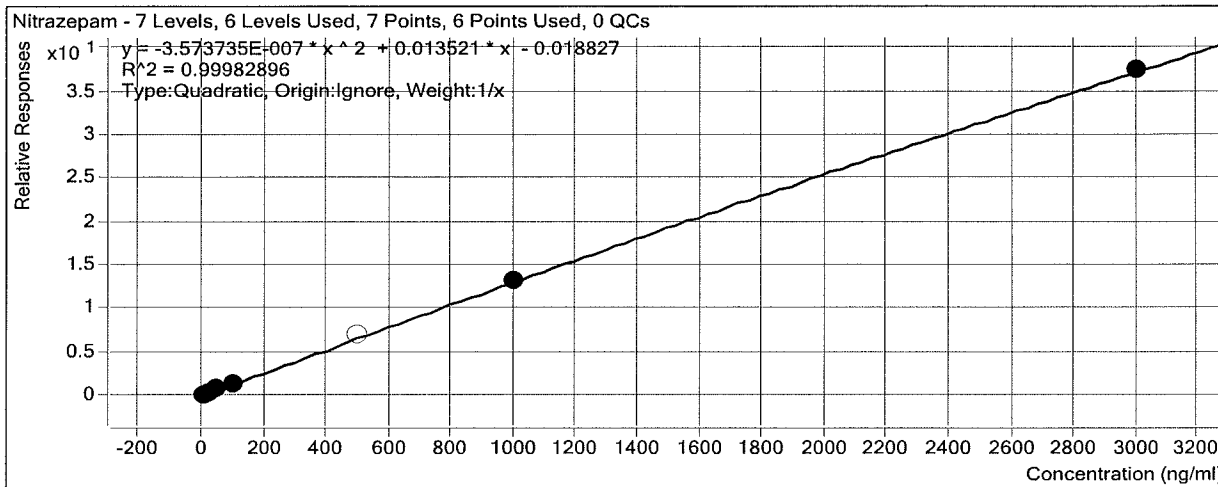
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	20.6	82.2
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.0	105.9
100 ng/mL	6	<input checked="" type="checkbox"/>	100	110.5	110.5
500 ng/mL	7	<input checked="" type="checkbox"/>	500	532.1	106.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	945.0	94.5
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3014.3	100.5

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound Nitrazepam
Internal Standard Clonazepam-D4 ISTD



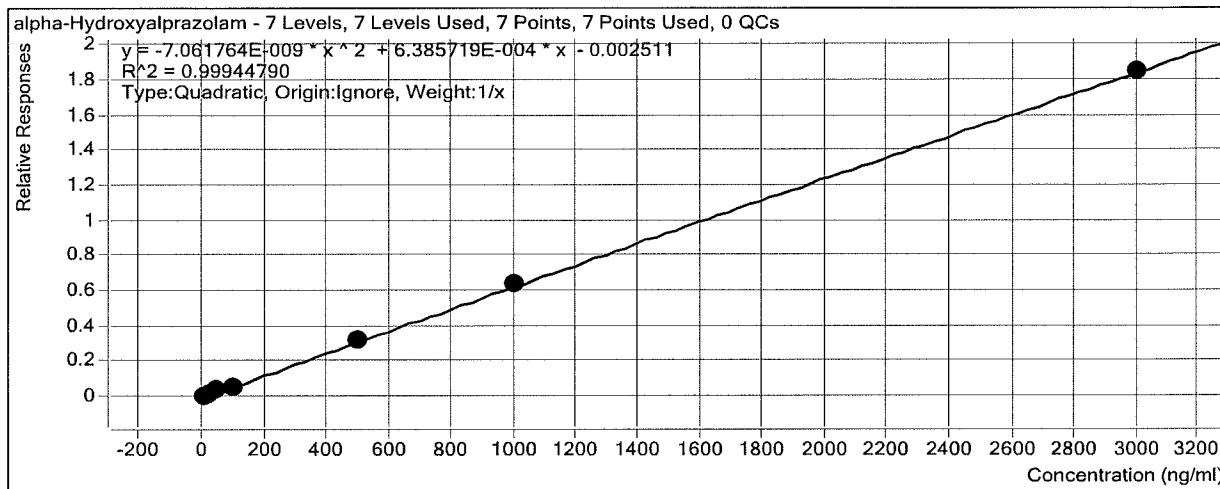
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.8	88.1
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.7	102.9
50 ng/mL	5	<input checked="" type="checkbox"/>	50	54.3	108.7
100 ng/mL	6	<input checked="" type="checkbox"/>	100	100.9	100.9
500 ng/mL	7	<input type="checkbox"/>	500	516.0	103.2
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	992.6	99.3
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3002.7	100.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound *alpha-Hydroxyalprazolam*
Internal Standard *alphahydroxyalprazolam-D5 ISTD*



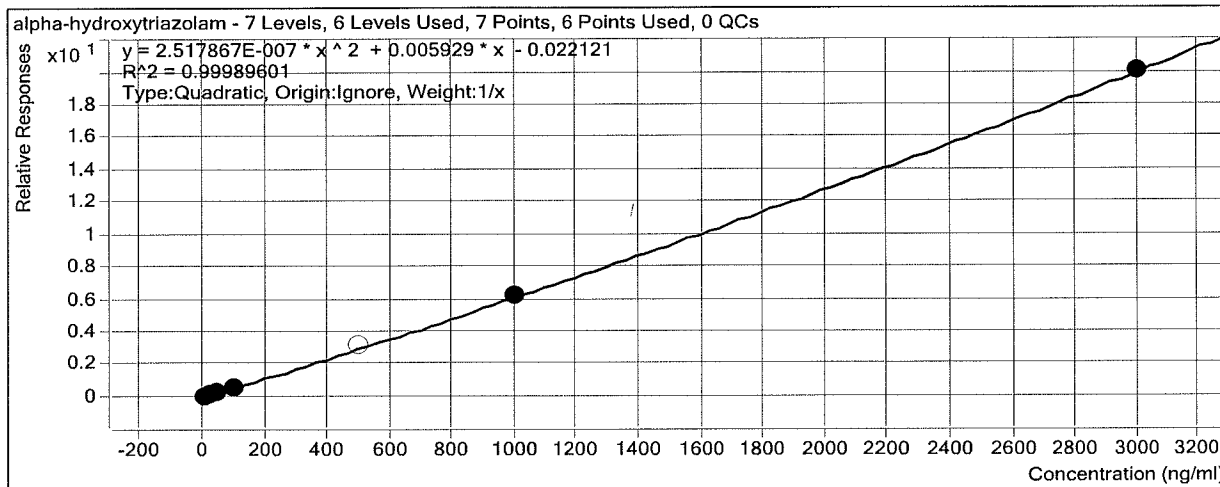
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	11.1	110.7
25 ng/mL	4	<input checked="" type="checkbox"/>	25	22.8	91.4
50 ng/mL	5	<input checked="" type="checkbox"/>	50	54.4	108.8
100 ng/mL	6	<input checked="" type="checkbox"/>	100	88.3	88.3
500 ng/mL	7	<input checked="" type="checkbox"/>	500	497.3	99.5
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	1015.8	101.6
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	2995.3	99.8

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound *alpha-hydroxytriazolam*
Internal Standard *Nordiazepam-D5 ISTD*



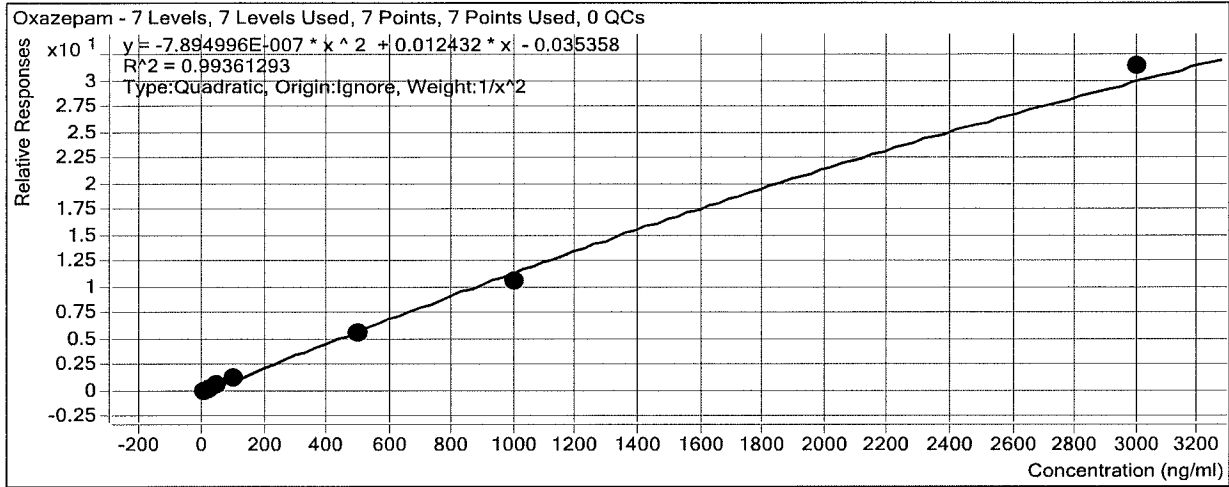
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	<input checked="" type="checkbox"/>	10	10.6	106.2
25 ngmL	4	<input checked="" type="checkbox"/>	25	25.1	100.6
50 ngmL	5	<input checked="" type="checkbox"/>	50	49.3	98.6
100 ngmL	6	<input checked="" type="checkbox"/>	100	93.9	93.9
500 ngmL	7	<input type="checkbox"/>	500	531.5	106.3
1000 ngmL	8	<input checked="" type="checkbox"/>	1000	1008.1	100.8
3000 ngmL	9	<input checked="" type="checkbox"/>	3000	2997.8	99.9

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound Oxazepam
Internal Standard Oxazepam D5 ISTD



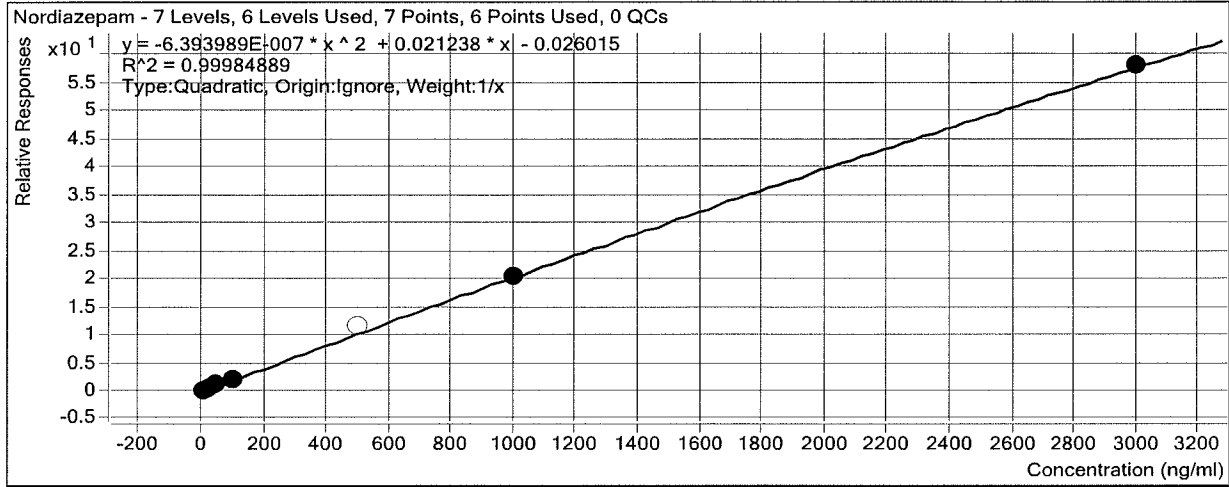
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.8	98.4
25 ng/mL	4	<input checked="" type="checkbox"/>	25	24.5	98.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	55.9	111.8
100 ng/mL	6	<input checked="" type="checkbox"/>	100	102.1	102.1
500 ng/mL	7	<input checked="" type="checkbox"/>	500	470.9	94.2
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	906.7	90.7
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3167.7	105.6

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound Nordiazepam
Internal Standard Nordiazepam-D5 ISTD



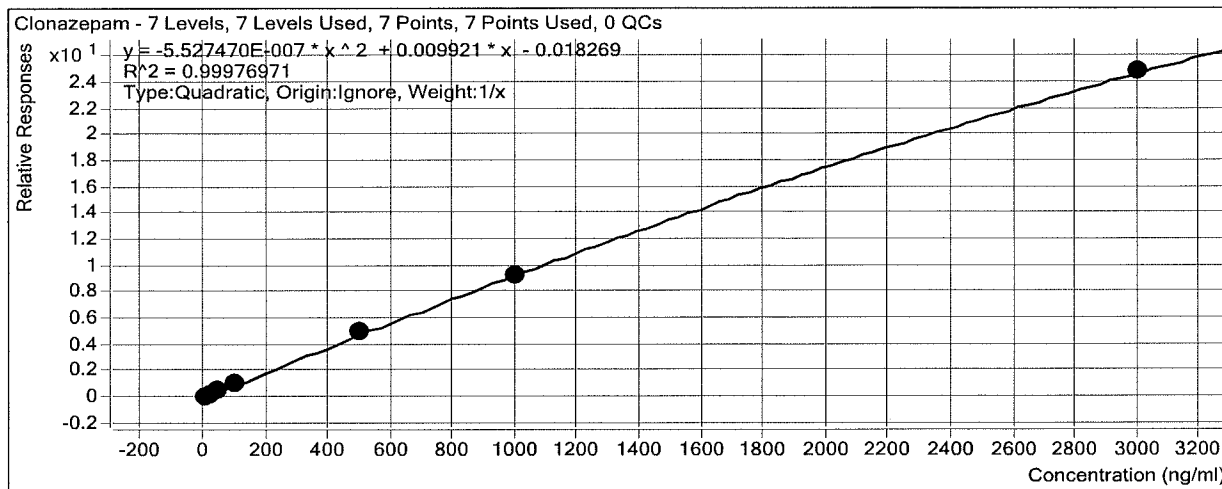
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.0	90.1
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.3	101.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	54.3	108.5
100 ng/mL	6	<input checked="" type="checkbox"/>	100	100.9	100.9
500 ng/mL	7	<input type="checkbox"/>	500	554.4	110.9
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	993.1	99.3
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3002.5	100.1

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound Clonazepam
Internal Standard Clonazepam-D4 ISTD



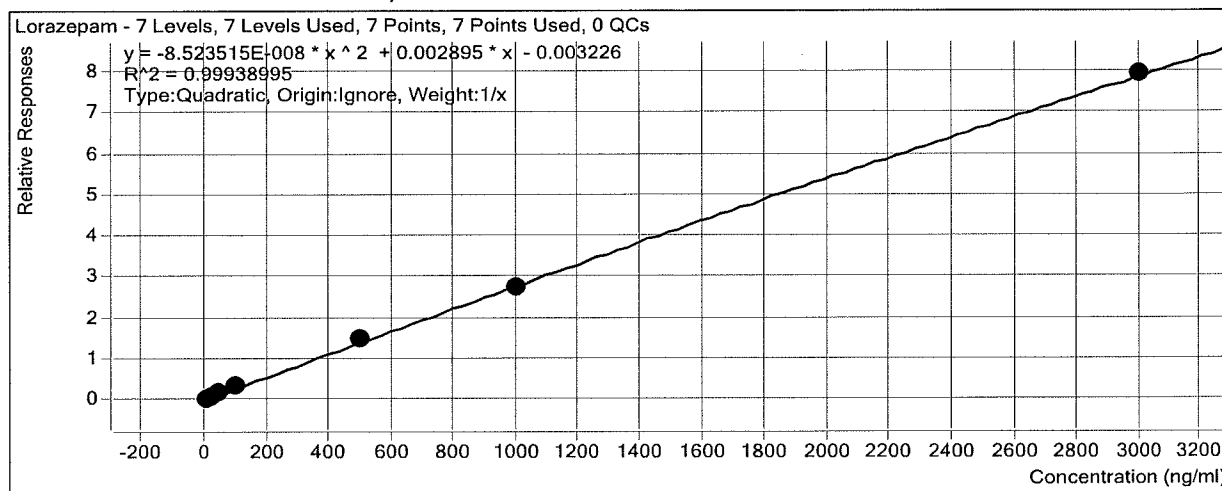
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.1	90.7
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.8	103.2
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.5	107.1
100 ng/mL	6	<input checked="" type="checkbox"/>	100	98.5	98.5
500 ng/mL	7	<input checked="" type="checkbox"/>	500	510.0	102.0
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	983.5	98.4
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3005.0	100.2

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound Lorazepam
Internal Standard Oxazepam D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.1	90.9
25 ng/mL	4	<input checked="" type="checkbox"/>	25	23.5	94.0
50 ng/mL	5	<input checked="" type="checkbox"/>	50	54.0	108.1
100 ng/mL	6	<input checked="" type="checkbox"/>	100	107.1	107.1
500 ng/mL	7	<input checked="" type="checkbox"/>	500	514.7	102.9
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	967.8	96.8
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3009.1	100.3

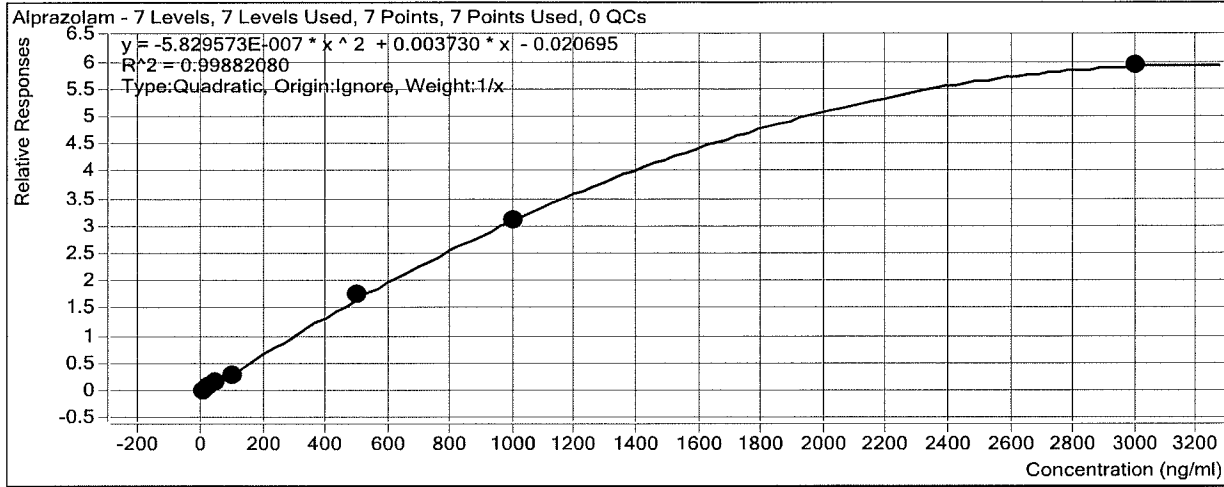
ISP

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound Alprazolam
Internal Standard alphahydroxyalprazolam-D5 ISTD



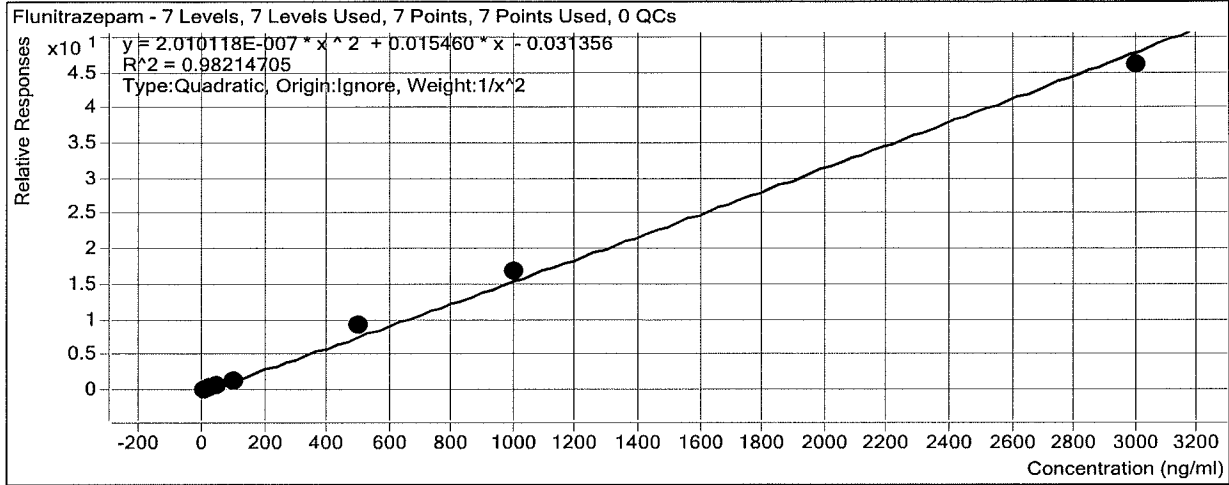
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	<input checked="" type="checkbox"/>	10	10.8	107.7
25 ngmL	4	<input checked="" type="checkbox"/>	25	24.1	96.2
50 ngmL	5	<input checked="" type="checkbox"/>	50	53.1	106.1
100 ngmL	6	<input checked="" type="checkbox"/>	100	87.2	87.2
500 ngmL	7	<input checked="" type="checkbox"/>	500	517.7	103.5
1000 ngmL	8	<input checked="" type="checkbox"/>	1000	993.1	99.3
3000 ngmL	9	<input checked="" type="checkbox"/>	3000	2991.7	99.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

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



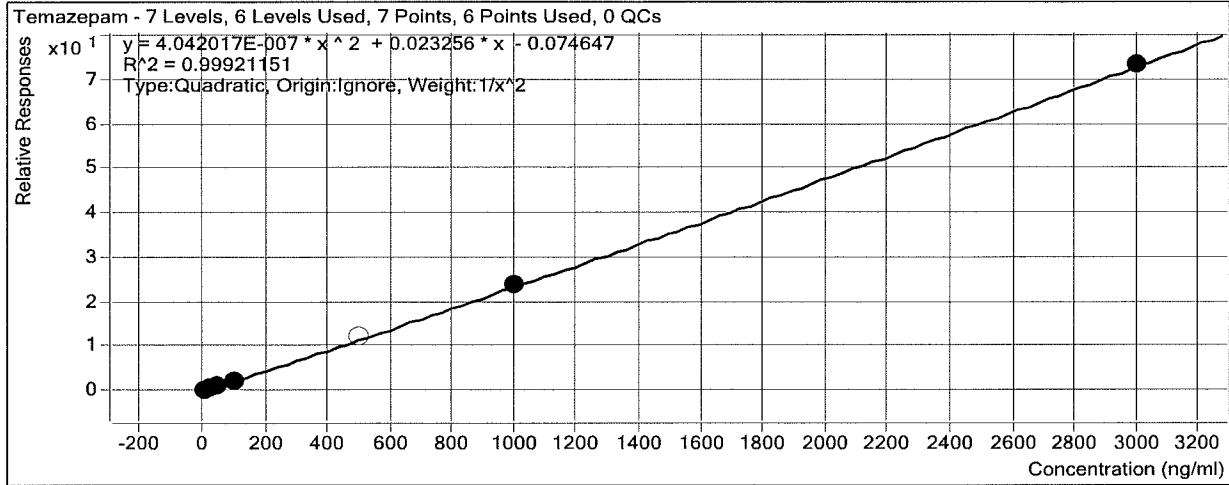
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10 ng/mL	2	<input checked="" type="checkbox"/>	10	10.0	100.4
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.8	107.0
50 ng/mL	5	<input checked="" type="checkbox"/>	50	45.6	91.2
100 ng/mL	6	<input checked="" type="checkbox"/>	100	81.5	81.5
500 ng/mL	7	<input checked="" type="checkbox"/>	500	585.0	117.0
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	1070.9	107.1
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	2871.9	95.7

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

Target Compound *Temazepam*
Internal Standard *Oxazepam D5 ISTD*



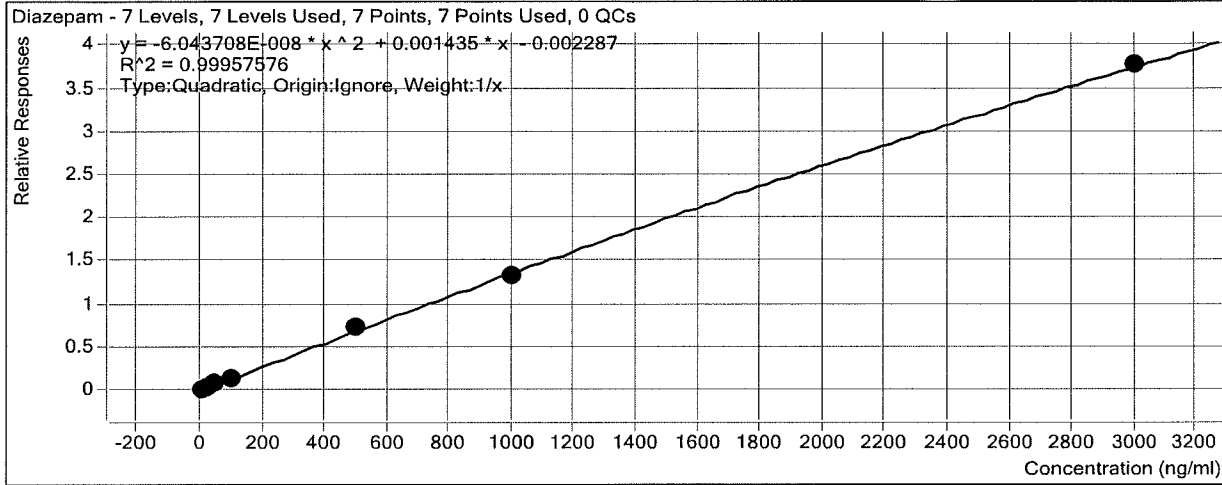
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	10.0	99.5
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.0	100.0
50 ng/mL	5	<input checked="" type="checkbox"/>	50	52.0	104.0
100 ng/mL	6	<input checked="" type="checkbox"/>	100	96.4	96.4
500 ng/mL	7	<input type="checkbox"/>	500	523.7	104.7
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	1000.0	100.0
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3001.5	100.0

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\24-17 urine benz.batch.bin

Last Calib Update 2/24/2017 3:50 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.9	89.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.5	105.9
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.3	106.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	97.4	97.4
500 ng/mL	7	<input checked="" type="checkbox"/>	500	517.2	103.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	975.8	97.6
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3006.2	100.2

[Handwritten Signature]

ISP FORENSICS - Cd'A Instrument # 62340

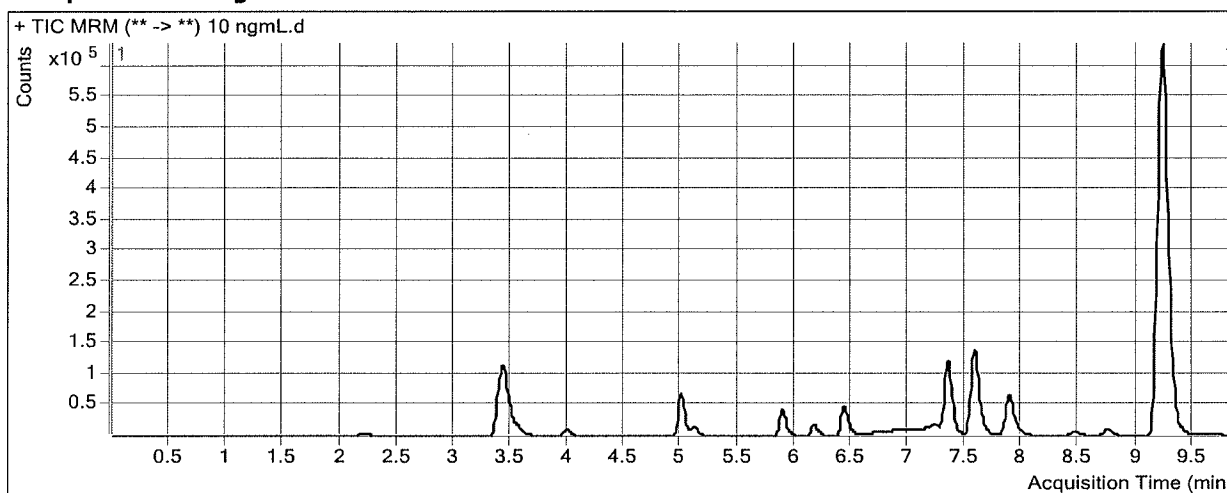
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 09:21 **Data File** 10 ngmL.d
Sample Type Calibration **Sample Name** 10 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A2 **Sample Info** ppd 2/24/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.208	19571	622770	0.0314	1.3277
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.553	52435	622770	0.0842	0.0000
zopiclone	Oxazepam D5 ISTD	3.982	31712	310608	0.1021	11.6281
zolpidem	Oxazepam D5 ISTD	4.995	216303	310608	0.6964	9.5966
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.122	47305	116602	0.4057	9.7259
quetiapine	Oxazepam D5 ISTD	5.889	100304	310608	0.3229	8.9153
Midazolam	Clonazepam-D4 ISTD	6.167	54618	253192	0.2157	9.8196
Flurazepam	Diazepam-D5 ISTD	6.429	166846	2261311	0.0738	0.0000
Nitrazepam	Clonazepam-D4 ISTD	7.217	25397	253192	0.1003	8.8131
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.372	1726	378673	0.0046	11.0705
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.429	4763	116602	0.0409	10.6169
Oxazepam	Oxazepam D5 ISTD	7.611	26989	310608	0.0869	9.8397
Nordiazepam	Nordiazepam-D5 ISTD	7.655	19268	116602	0.1652	9.0080
Clonazepam	Clonazepam-D4 ISTD	7.920	18149	253192	0.0717	9.0710
Lorazepam	Oxazepam D5 ISTD	7.961	7169	310608	0.0231	9.0875
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.013	7349	378673	0.0194	10.7682
Flunitrazepam	Clonazepam-D4 ISTD	8.446	31363	253192	0.1239	10.0395
Temazepam	Oxazepam D5 ISTD	8.740	48733	310608	0.1569	9.9547
Diazepam	Diazepam-D5 ISTD	9.327	23690	2261311	0.0105	8.8955

ISP FORENSICS - Cd'A Instrument # 62340

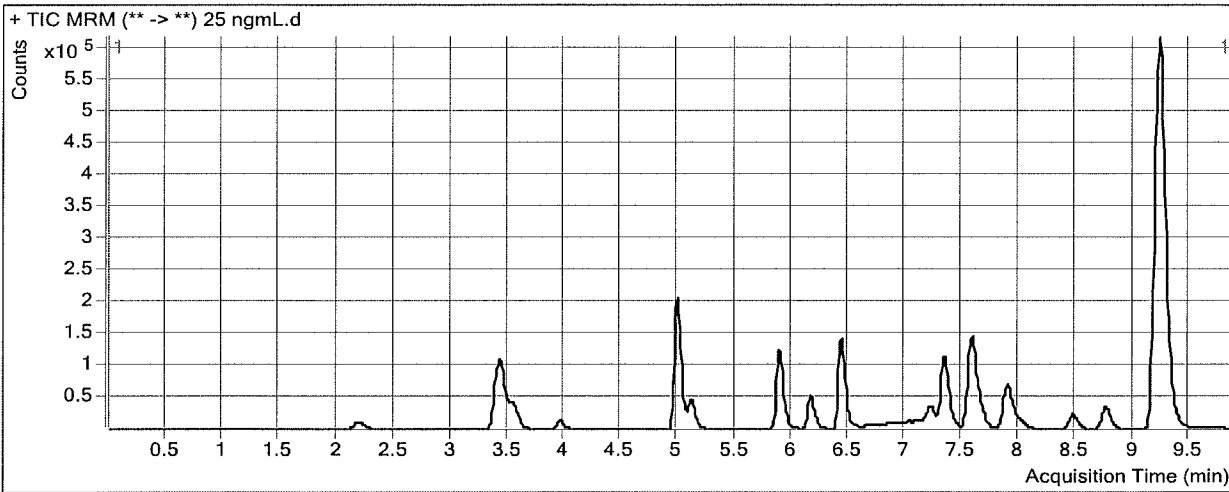
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 09:36 **Data File** 25 ngmL.d
Sample Type Calibration **Sample Name** 25 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A3 **Sample Info** ppd 2/24/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.200	55574	559143	0.0994	22.5785
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.545	150632	559143	0.2694	20.5676
zopiclone	Oxazepam D5 ISTD	3.957	40081	312782	0.1281	19.4510
zolpidem	Oxazepam D5 ISTD	4.987	651242	312782	2.0821	26.4594
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.115	147981	115047	1.2863	26.0185
quetiapine	Oxazepam D5 ISTD	5.889	295676	312782	0.9453	26.0324
Midazolam	Clonazepam-D4 ISTD	6.167	158943	247547	0.6421	26.0209
Flurazepam	Diazepam-D5 ISTD	6.429	597051	2112770	0.2826	20.5503
Nitrazepam	Clonazepam-D4 ISTD	7.225	81420	247547	0.3289	25.7351
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.380	4632	383781	0.0121	22.8397
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.429	14620	115047	0.1271	25.1399
Oxazepam	Oxazepam D5 ISTD	7.620	84142	312782	0.2690	24.5210
Nordiazepam	Nordiazepam-D5 ISTD	7.664	58707	115047	0.5103	25.2715
Clonazepam	Clonazepam-D4 ISTD	7.920	58747	247547	0.2373	25.7984
Lorazepam	Oxazepam D5 ISTD	7.969	20253	312782	0.0648	23.4935
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.022	26378	383781	0.0687	24.0623
Flunitrazepam	Clonazepam-D4 ISTD	8.455	94685	247547	0.3825	26.7604
Temazepam	Oxazepam D5 ISTD	8.748	158668	312782	0.5073	25.0121
Diazepam	Diazepam-D5 ISTD	9.335	75356	2112770	0.0357	26.4718

ISP FORENSICS - Cd'A Instrument # 62340

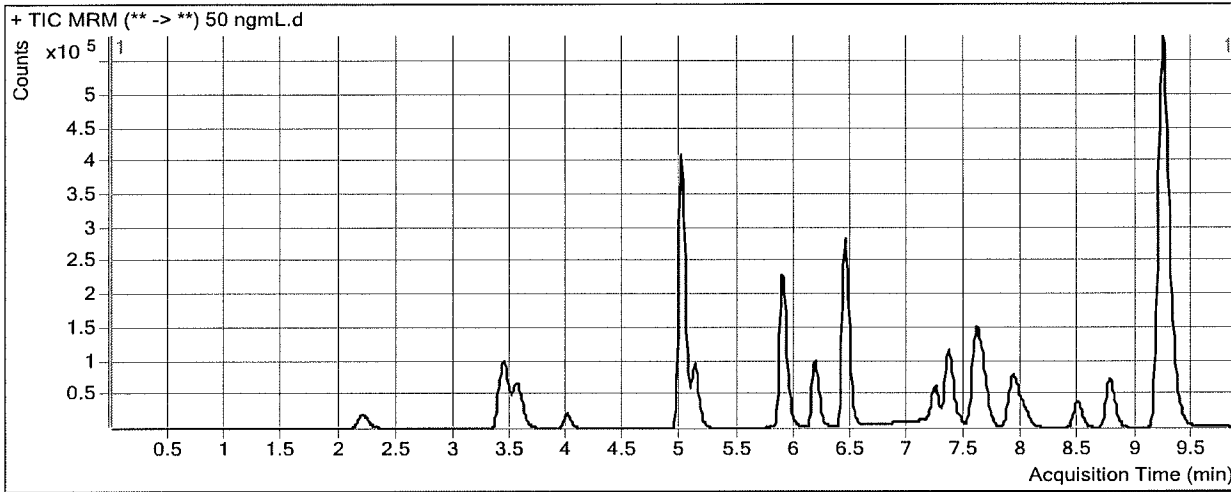
Benzodiazepine Analysis Report

Batch Data Path	D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin		
Analysis Time	2/24/2017 3:50 PM	Analyst Name	ISP Tox
Report Time	2/24/2017 3:52 PM	Reporter Name	ISP Tox
Last Calib Update	2/24/2017 3:50 PM	Batch State	Processed

Analysis Info

Acq Time	2017-02-24 09:51	Data File	50 ngmL.d
Sample Type	Calibration	Sample Name	50 ngmL
Dilution	1	Acq Method	Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position	P1-A4	Sample Info	ppd 2/24/17- Unextracted
Inj Vol	-1	Comment	AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.208	108571	511510	0.2123	58.0796
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.562	253251	511510	0.4951	53.2524
zopiclone	Oxazepam D5 ISTD	3.990	67375	284895	0.2365	51.9943
zolpidem	Oxazepam D5 ISTD	4.995	1253827	284895	4.4010	54.6787
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.122	308570	111618	2.7645	53.3843
quetiapine	Oxazepam D5 ISTD	5.889	586437	284895	2.0584	56.8840
Midazolam	Clonazepam-D4 ISTD	6.176	324847	245184	1.3249	52.0941
Flurazepam	Diazepam-D5 ISTD	6.438	1030832	2097122	0.4915	52.9554
Nitrazepam	Clonazepam-D4 ISTD	7.233	175225	245184	0.7147	54.3260
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.380	9859	306187	0.0322	54.3864
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.438	30231	111618	0.2708	49.3128
Oxazepam	Oxazepam D5 ISTD	7.628	187136	284895	0.6569	55.8786
Nordiazepam	Nordiazepam-D5 ISTD	7.664	125521	111618	1.1246	54.2644
Clonazepam	Clonazepam-D4 ISTD	7.937	125354	245184	0.5113	53.5334
Lorazepam	Oxazepam D5 ISTD	7.985	43587	284895	0.1530	54.0408
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.030	53773	306187	0.1756	53.0644
Flunitrazepam	Clonazepam-D4 ISTD	8.472	165286	245184	0.6741	45.6074
Temazepam	Oxazepam D5 ISTD	8.757	323496	284895	1.1355	51.9895
Diazepam	Diazepam-D5 ISTD	9.344	155211	2097122	0.0740	53.2760

ISP FORENSICS - Cd'A Instrument # 62340

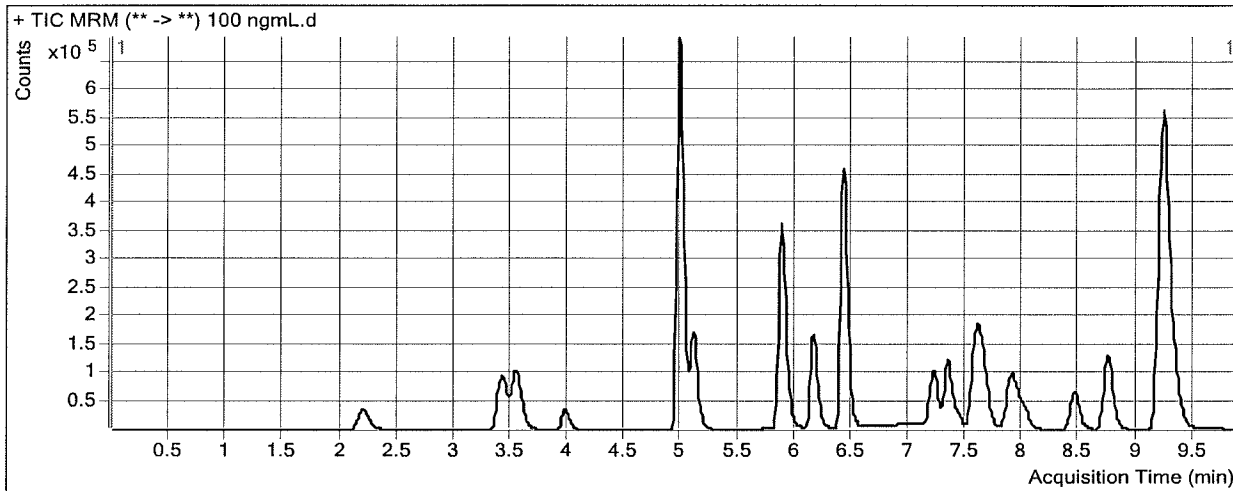
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 10:05 **Data File** 100 ngmL.d
Sample Type Calibration **Sample Name** 100 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A5 **Sample Info** ppd 2/24/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.208	184341	491411	0.3751	109.7863
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.545	445952	491411	0.9075	113.4848
zopiclone	Oxazepam D5 ISTD	3.973	110109	273403	0.4027	101.9266
zolpidem	Oxazepam D5 ISTD	4.978	2235758	273403	8.1775	100.6353
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.106	553149	106390	5.1993	98.4967
quetiapine	Oxazepam D5 ISTD	5.881	914833	273403	3.3461	92.9644
Midazolam	Clonazepam-D4 ISTD	6.159	562328	234630	2.3967	93.3340
Flurazepam	Diazepam-D5 ISTD	6.421	1724448	2001234	0.8617	110.5144
Nitrazepam	Clonazepam-D4 ISTD	7.208	314929	234630	1.3422	100.9311
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.372	21056	391321	0.0538	88.2801
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.421	57113	106390	0.5368	93.9058
Oxazepam	Oxazepam D5 ISTD	7.611	335190	273403	1.2260	102.1220
Nordiazepam	Nordiazepam-D5 ISTD	7.655	224557	106390	2.1107	100.9154
Clonazepam	Clonazepam-D4 ISTD	7.912	223797	234630	0.9538	98.5222
Lorazepam	Oxazepam D5 ISTD	7.961	83594	273403	0.3058	107.0522
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.013	117435	391321	0.3001	87.1797
Flunitrazepam	Clonazepam-D4 ISTD	8.446	288484	234630	1.2295	81.4738
Temazepam	Oxazepam D5 ISTD	8.740	593365	273403	2.1703	96.3717
Diazepam	Diazepam-D5 ISTD	9.335	274008	2001234	0.1369	97.3836

ISP FORENSICS - Cd'A Instrument # 62340

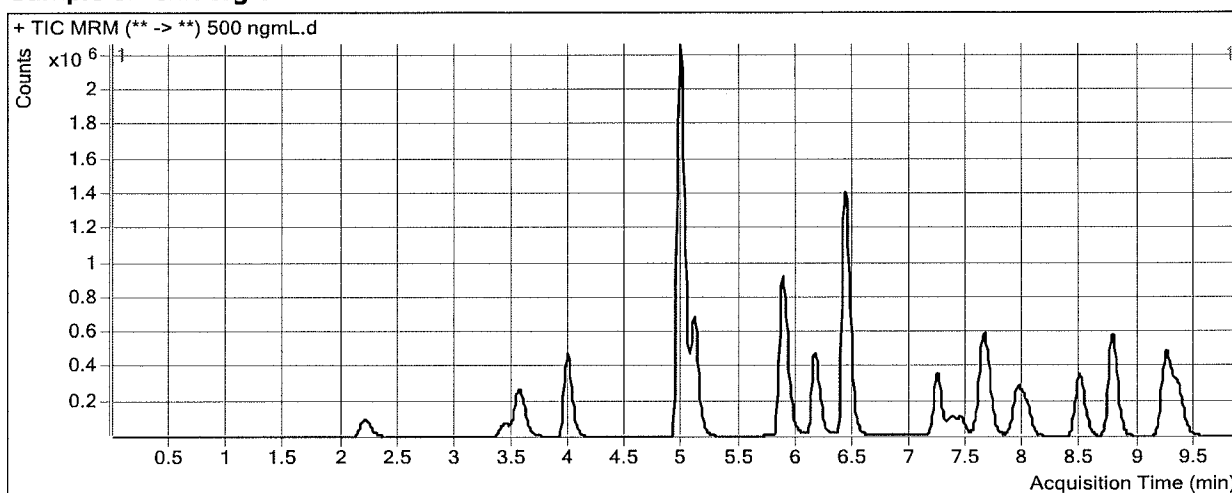
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 10:20 **Data File** 500 ngmL.d
Sample Type Calibration **Sample Name** 500 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A6 **Sample Info** ppd 2/24/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.208	548919	399866	1.3728	439.9516
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.562	1362198	399866	3.4066	494.0403
zopiclone	Oxazepam D5 ISTD	3.973	1536860	227092	6.7676	2013.6378
zolpidem	Oxazepam D5 ISTD	4.970	8209080	227092	36.1486	441.0191
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.098	2262083	84899	26.6443	498.0137
quetiapine	Oxazepam D5 ISTD	5.872	2755628	227092	12.1344	351.7040
Midazolam	Clonazepam-D4 ISTD	6.159	1757184	175308	10.0234	399.0178
Flurazepam	Diazepam-D5 ISTD	6.421	5814477	1645510	3.5335	532.0902
Nitrazepam	Clonazepam-D4 ISTD	7.233	1203143	175308	6.8630	516.0050
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.389	80732	257667	0.3133	497.3271
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.438	271692	84899	3.2002	531.5220
Oxazepam	Oxazepam D5 ISTD	7.628	1281701	227092	5.6440	470.9127
Nordiazepam	Nordiazepam-D5 ISTD	7.672	980728	84899	11.5516	554.3958
Clonazepam	Clonazepam-D4 ISTD	7.937	858611	175308	4.8977	509.9899
Lorazepam	Oxazepam D5 ISTD	7.985	332592	227092	1.4646	514.7408
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.030	452002	257667	1.7542	517.6588
Flunitrazepam	Clonazepam-D4 ISTD	8.471	1591972	175308	9.0810	584.9804
Temazepam	Oxazepam D5 ISTD	8.757	2773829	227092	12.2145	523.6726
Diazepam	Diazepam-D5 ISTD	9.344	1191216	1645510	0.7239	517.2063

ISP FORENSICS - Cd'A Instrument # 62340

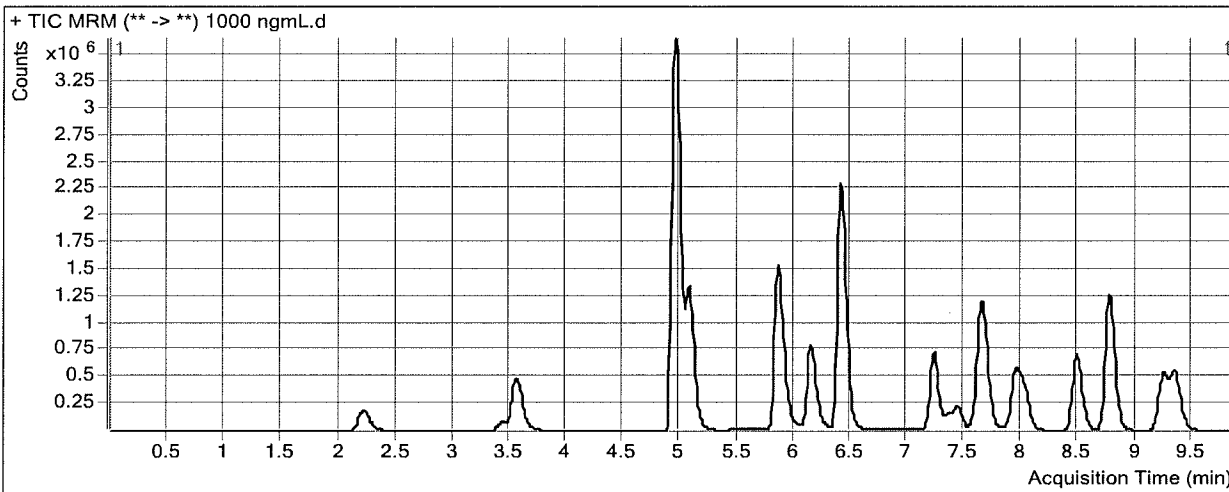
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 10:35 **Data File** 1000 ngmL.d
Sample Type Calibration **Sample Name** 1000 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A7 **Sample Info** ppd 2/24/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.217	1065386	411255	2.5906	880.7716
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.562	2620226	411255	6.3713	987.0726
zolpidem	Oxazepam D5 ISTD	4.953	14977202	254031	58.9581	718.5897
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.081	4563109	94512	48.2809	905.1374
quetiapine	Oxazepam D5 ISTD	5.856	4985056	254031	19.6238	592.9563
Midazolam	Clonazepam-D4 ISTD	6.142	3219987	189584	16.9845	699.9170
Flurazepam	Diazepam-D5 ISTD	6.404	10751320	1767198	6.0838	945.0350
Nitrazepam	Clonazepam-D4 ISTD	7.233	2474068	189584	13.0500	992.5848
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.389	183652	287477	0.6388	1015.7635
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.438	586952	94512	6.2104	1008.1044
Oxazepam	Oxazepam D5 ISTD	7.628	2689489	254031	10.5872	906.6566
Nordiazepam	Nordiazepam-D5 ISTD	7.672	1931270	94512	20.4342	993.0736
Clonazepam	Clonazepam-D4 ISTD	7.929	1745115	189584	9.2050	983.5364
Lorazepam	Oxazepam D5 ISTD	7.977	690703	254031	2.7190	967.7522
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.030	893826	287477	3.1092	993.1371
Flunitrazepam	Clonazepam-D4 ISTD	8.471	3176514	189584	16.7552	1070.9221
Temazepam	Oxazepam D5 ISTD	8.757	5991641	254031	23.5862	1000.0426
Diazepam	Diazepam-D5 ISTD	9.344	2369470	1767198	1.3408	975.8180

ISP FORENSICS - Cd'A Instrument # 62340

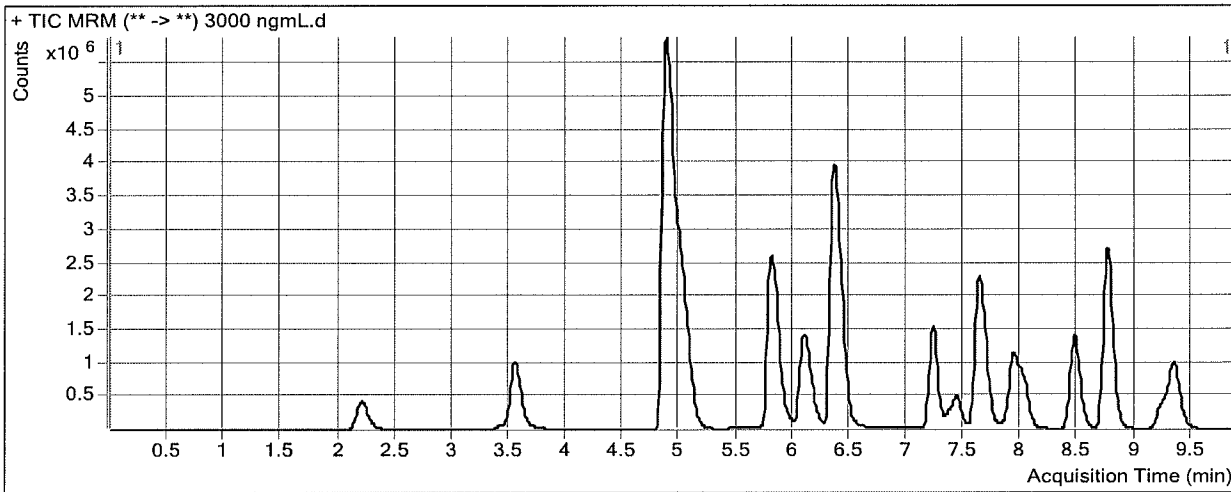
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\2-24-17 urine benz\QuantResults\2-24-17 urine benz.batch.bin
Analysis Time 2/24/2017 3:50 PM **Analyst Name** ISP Tox
Report Time 2/24/2017 3:52 PM **Reporter Name** ISP Tox
Last Calib Update 2/24/2017 3:50 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-24 10:49 **Data File** 3000 ngmL.d
Sample Type Calibration **Sample Name** 3000 ngmL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-A8 **Sample Info** ppd 2/24/17- Unextracted
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	7-Aminoflunitrazepam-D7 ISTD	2.208	2339831	331677	7.0545	3410.2690
7-Aminoflunitrazepam	ISTD	3.553	5075955	331677	15.3039	3008.7932
zolpidem	Oxazepam D5 ISTD	4.878	29927851	182691	163.8172	1994.6328
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.014	10863780	67423	161.1277	3099.3938
quetiapine	Oxazepam D5 ISTD	5.805	10431283	182691	57.0981	3002.6997
Midazolam	Clonazepam-D4 ISTD	6.101	7523309	143612	52.3864	3011.3281
Flurazepam	Diazepam-D5 ISTD	6.354	23817531	1333072	17.8666	3014.2889
Nitrazepam	Clonazepam-D4 ISTD	7.217	5365130	143612	37.3586	3002.6584
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.380	503897	272840	1.8469	2995.3245
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.429	1349378	67423	20.0135	2997.8332
Oxazepam	Oxazepam D5 ISTD	7.611	5740823	182691	31.4238	3167.7399
Nordiazepam	Nordiazepam-D5 ISTD	7.664	3909004	67423	57.9769	3002.5267
Clonazepam	Clonazepam-D4 ISTD	7.912	3562082	143612	24.8036	3004.9542
Lorazepam	Oxazepam D5 ISTD	7.969	1450091	182691	7.9374	3009.0608
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	8.022	1615808	272840	5.9222	2991.6757
Flunitrazepam	Clonazepam-D4 ISTD	8.455	6609801	143612	46.0255	2871.9335
Temazepam	Oxazepam D5 ISTD	8.740	13403666	182691	73.3682	3001.4822
Diazepam	Diazepam-D5 ISTD	9.335	5021068	1333072	3.7665	3006.2492