



9/19/2017

Worklist: 1899

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2017-1829	1	95206	AM 13 Urine LCMS-QQQ Benz	
C2017-1861	1	95207	AM 13 Urine LCMS-QQQ Benz	
C2017-1867	1	95208	AM 13 Urine LCMS-QQQ Benz	
M2017-4110	6	95209	AM 13 Urine LCMS-QQQ Benz	
P2017-2083	1	95210	AM 13 Urine LCMS-QQQ Benz	
P2017-2086	1	95211	AM 13 Urine LCMS-QQQ Benz	
P2017-2112	1	95212	AM 13 Urine LCMS-QQQ Benz	
P2017-2155	1	95213	AM 13 Urine LCMS-QQQ Benz	



ISP FORENSICS - Cd'A Instrument # 62340

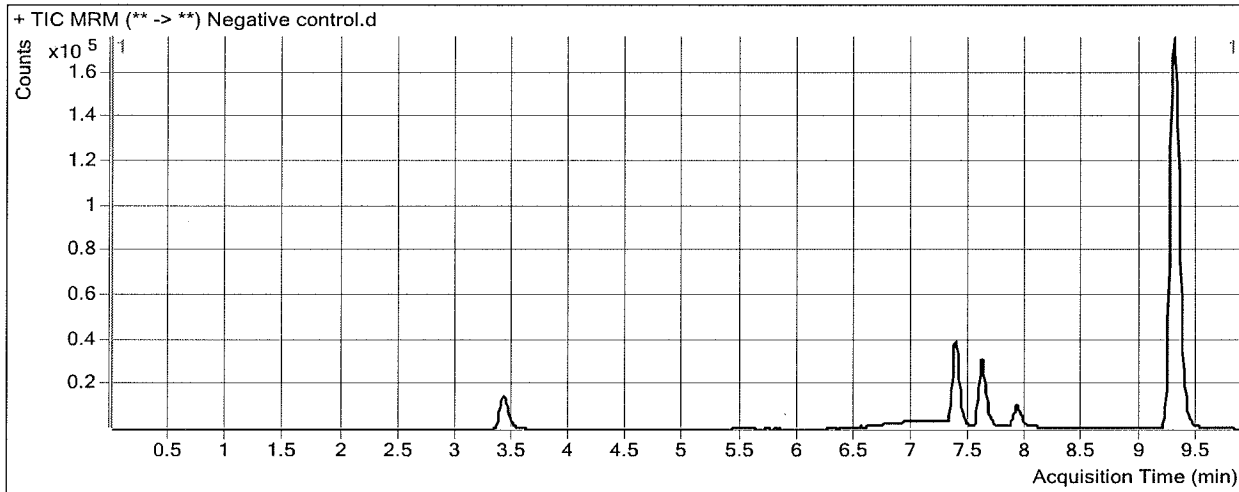
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 13:25 **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 91917
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



ISP

ISP FORENSICS - Cd'A Instrument # 62340

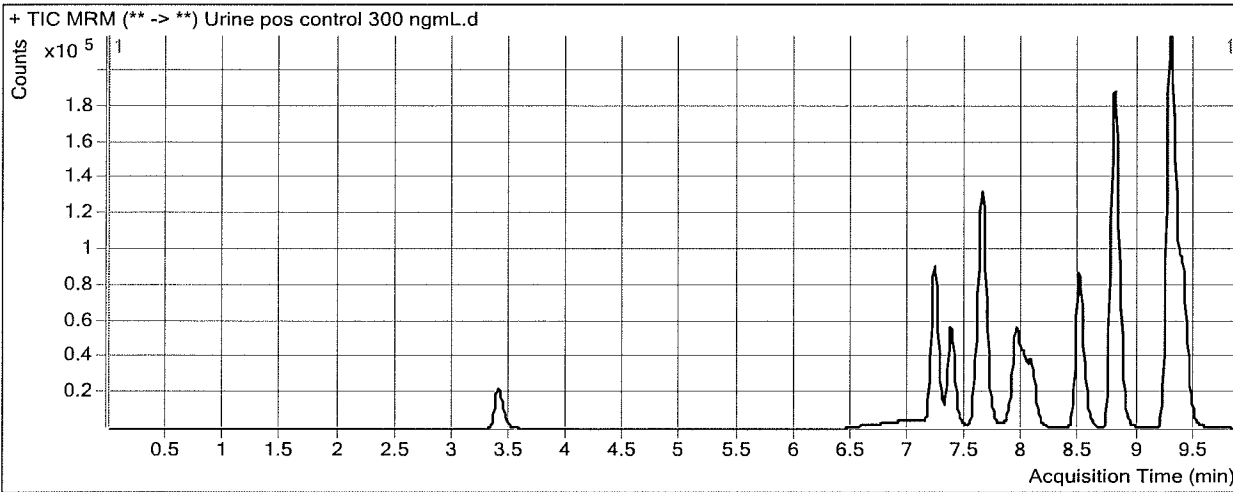
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 13:40 **Data File** Urine pos control 300 ngmL.d
Sample Type Sample **Sample Name** Urine pos control 300 ng/mL
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 91917
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	7.217	269144	46765	5.7552	1255.2906
Oxazepam	Oxazepam D5 ISTD	7.637	329368	90387	3.6440	316.8244
Clonazepam	Clonazepam-D4 ISTD	7.937	162644	46765	3.4779	373.1401
Lorazepam	Oxazepam D5 ISTD	8.002	69119	90387	0.7647	221.5247
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.063	110893	144487	0.7675	292.8643
Flunitrazepam	Clonazepam-D4 ISTD	8.480	325201	46765	6.9539	246.7551
Temazepam	Oxazepam D5 ISTD	8.782	772626	90387	8.5479	767.2819
Diazepam	Diazepam-D5 ISTD	9.385	301557	639088	0.4719	413.8687

ISP FORENSICS - Cd'A Instrument # 62340

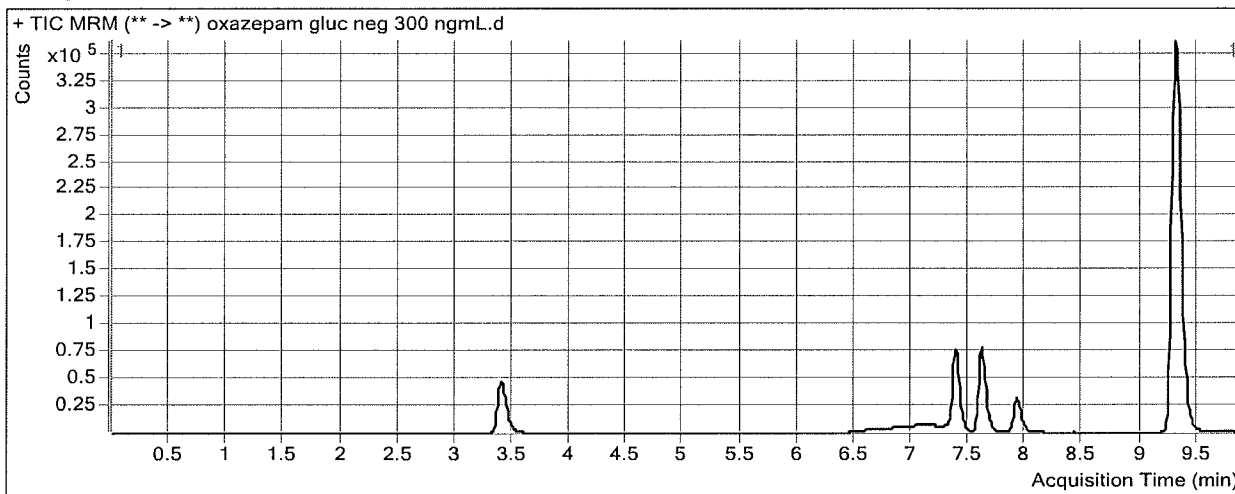
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 12:55 **Data File** oxazepam gluc neg 300 ngmL.d
Sample Type Sample **Sample Name** oxazepam gluc neg 300 ng/mL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B1 **Sample Info** Oxazepam Glucuronide WS lot 51018 in 91917 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	7.653	2028	162502	0.0125	3.4357

ISP FORENSICS - Cd'A Instrument # 62340

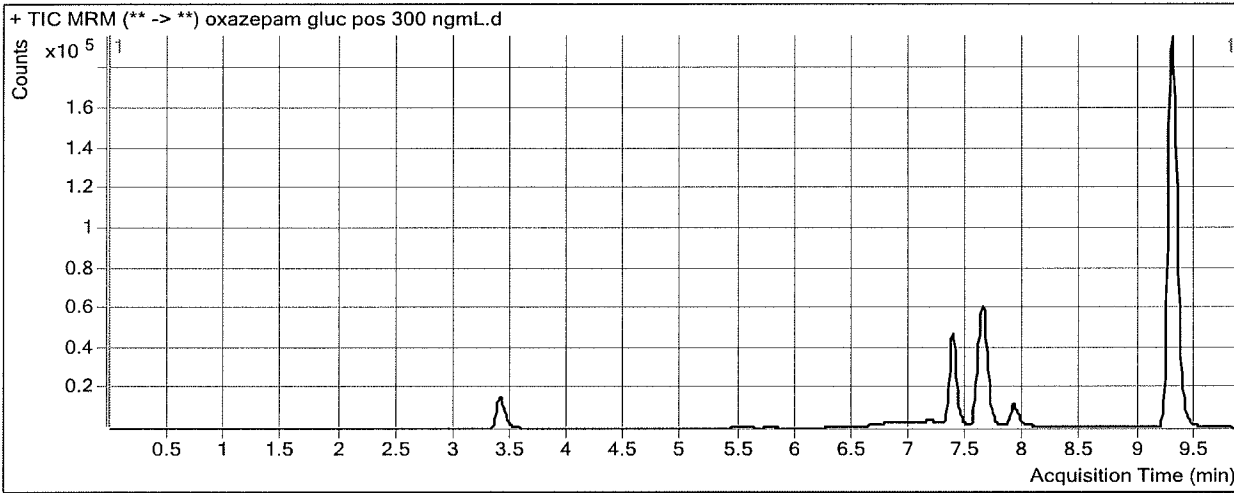
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 13:10 **Data File** oxazepam gluc pos 300 ngmL.d
Sample Type Sample **Sample Name** oxazepam gluc pos 300 ng/mL
Dilution 1 **Acq Method** Benzos_Z_Drugs_ACN_FA_ISP 2016.m
Position P1-B2 **Sample Info** Oxazepam Glucuronide WS (30uL) lot 51018 in 91917 with glucuronidas
Inj Vol -1 **Comment** AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results

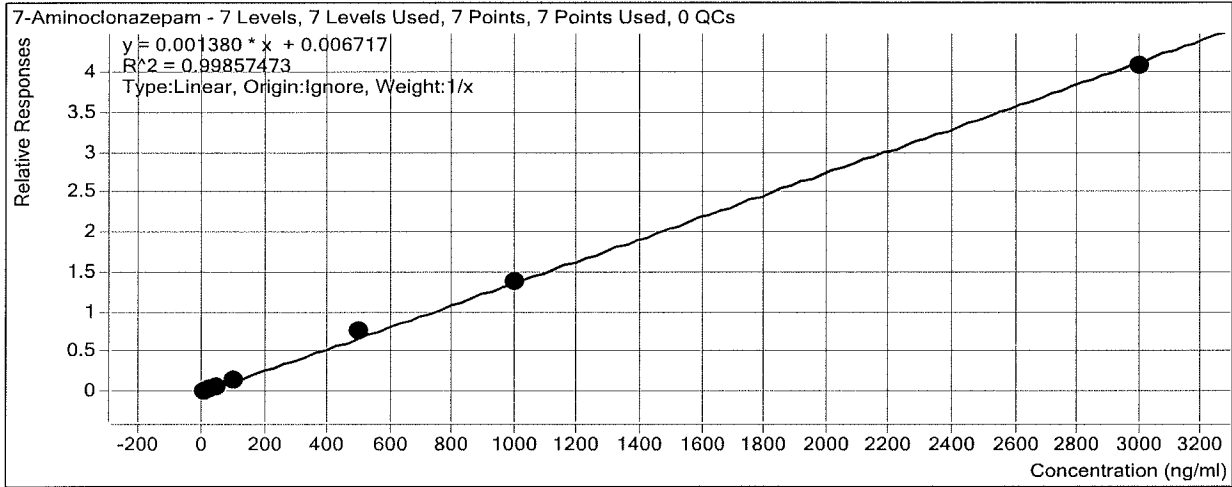
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Oxazepam	Oxazepam D5 ISTD	7.645	138944	64342	2.1595	187.9618

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

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



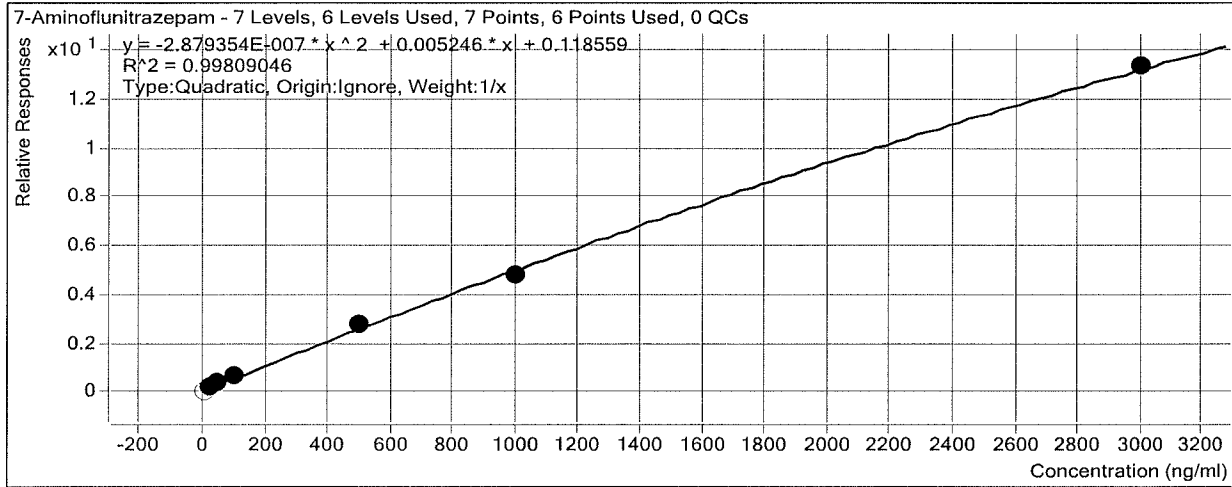
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	8.2	82.2
25 ng/mL	4	<input checked="" type="checkbox"/>	25	26.1	104.5
50 ng/mL	5	<input checked="" type="checkbox"/>	50	49.8	99.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	105.9	105.9
500 ng/mL	7	<input checked="" type="checkbox"/>	500	548.0	109.6
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	1000.5	100.0
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	2946.5	98.2

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	20.3	81.3
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.6	107.2
100 ng/mL	6	<input checked="" type="checkbox"/>	100	110.6	110.6
500 ng/mL	7	<input checked="" type="checkbox"/>	500	529.2	105.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	946.3	94.6
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3016.5	100.5

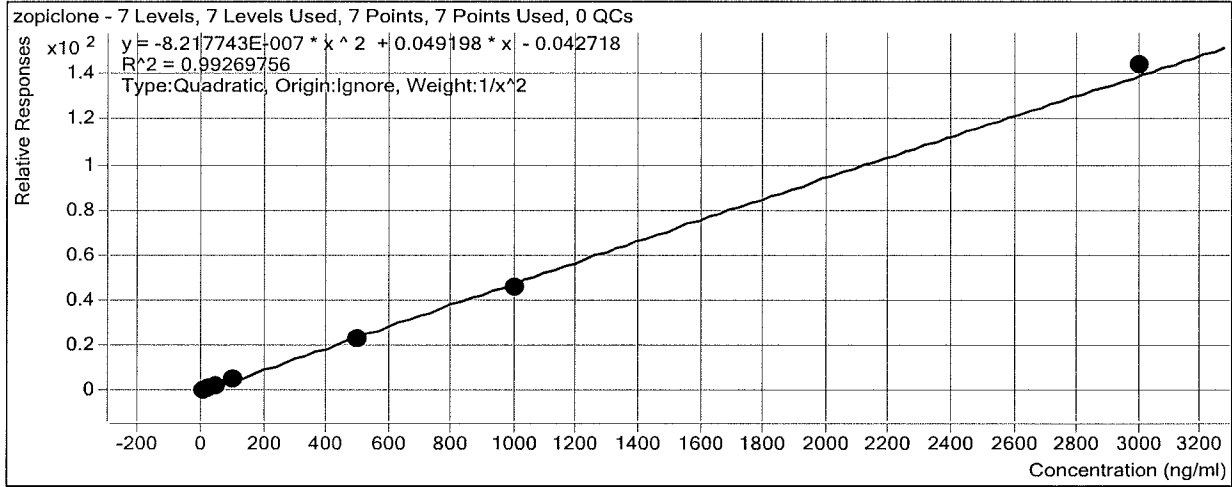
BTJ

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

Target Compound zopiclone
Internal Standard Oxazepam D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.5	94.9
25 ng/mL	4	<input checked="" type="checkbox"/>	25	28.6	114.3
50 ng/mL	5	<input checked="" type="checkbox"/>	50	48.0	96.1
100 ng/mL	6	<input checked="" type="checkbox"/>	100	103.1	103.1
500 ng/mL	7	<input checked="" type="checkbox"/>	500	471.9	94.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	944.5	94.4
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3086.0	102.9

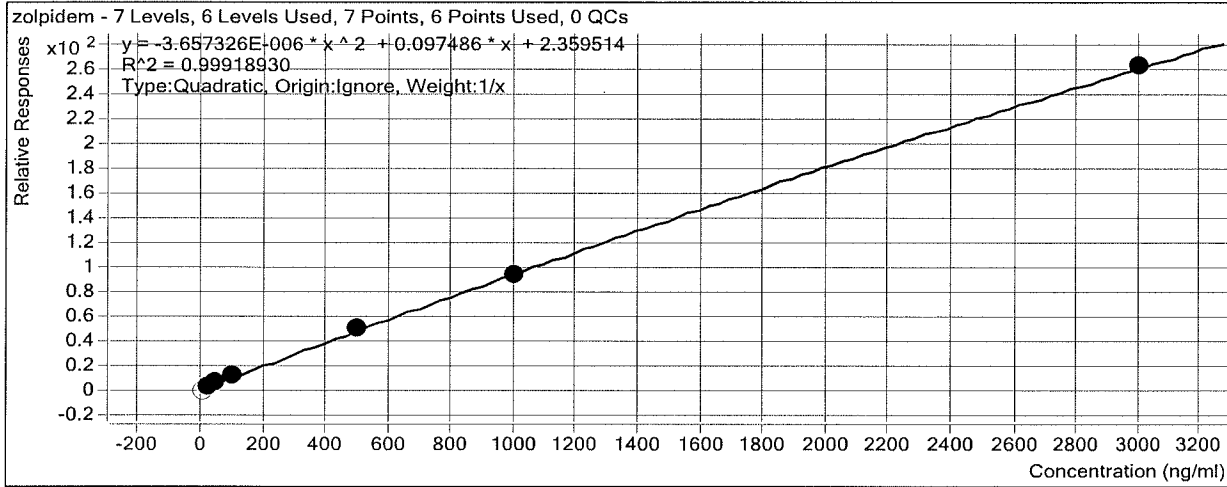
DTJ

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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 type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	20.9	83.7
50 ng/mL	5	<input checked="" type="checkbox"/>	50	52.5	105.0
100 ng/mL	6	<input checked="" type="checkbox"/>	100	112.3	112.3
500 ng/mL	7	<input checked="" type="checkbox"/>	500	505.5	101.1
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	976.3	97.6
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3007.8	100.3

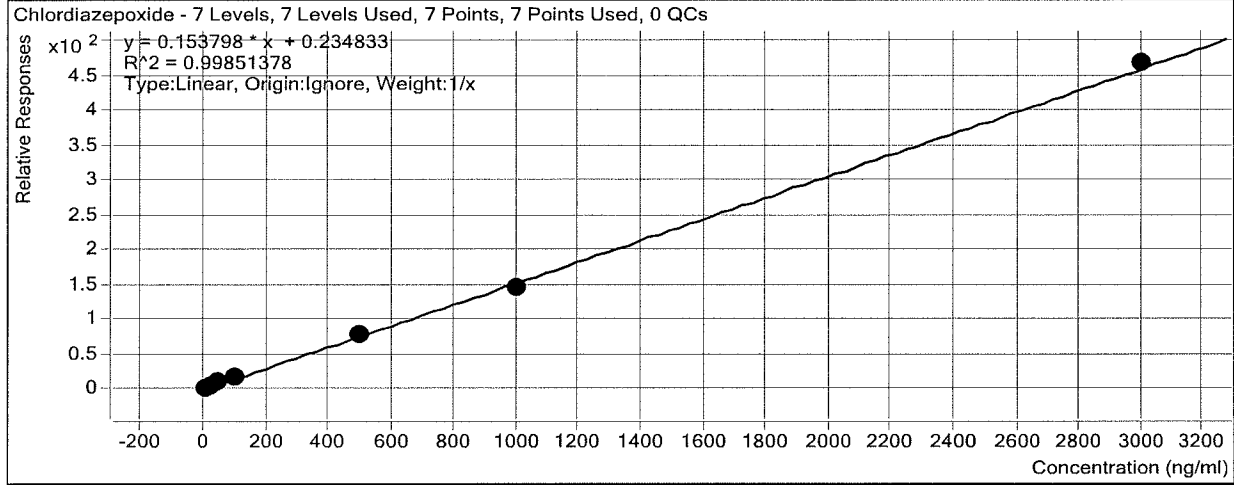
DW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	8.1	81.3
25 ng/mL	4	<input checked="" type="checkbox"/>	25	24.1	96.5
50 ng/mL	5	<input checked="" type="checkbox"/>	50	57.2	114.3
100 ng/mL	6	<input checked="" type="checkbox"/>	100	110.9	110.9
500 ng/mL	7	<input checked="" type="checkbox"/>	500	508.4	101.7
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	941.5	94.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3034.8	101.2

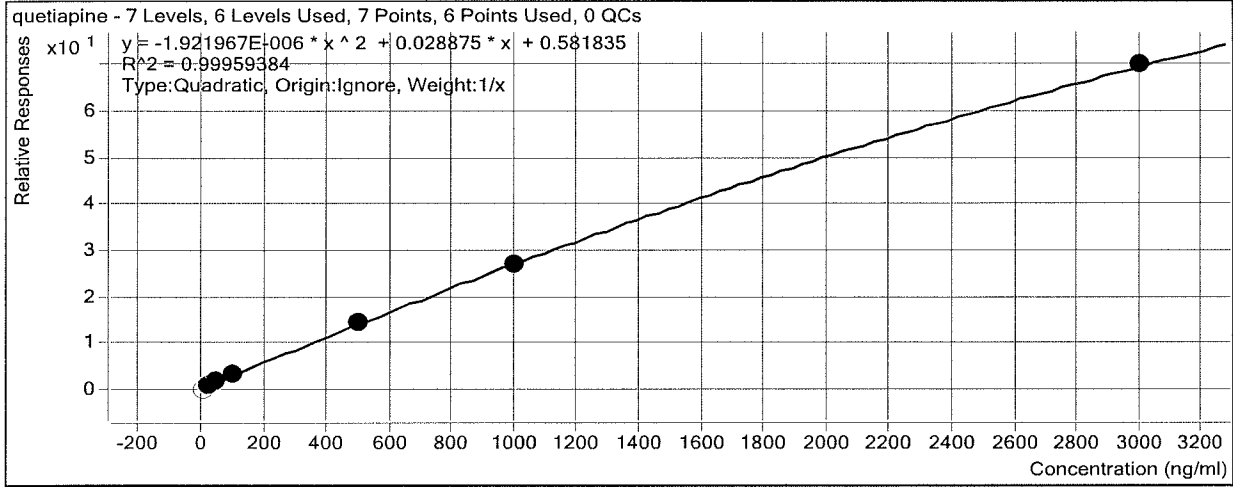
ISP

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

Target Compound *quetiapine*
Internal Standard *Oxazepam 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	21.7	86.9
50 ng/mL	5	<input checked="" type="checkbox"/>	50	54.0	107.9
100 ng/mL	6	<input checked="" type="checkbox"/>	100	106.1	106.1
500 ng/mL	7	<input checked="" type="checkbox"/>	500	500.6	100.1
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	988.0	98.8
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3005.2	100.2

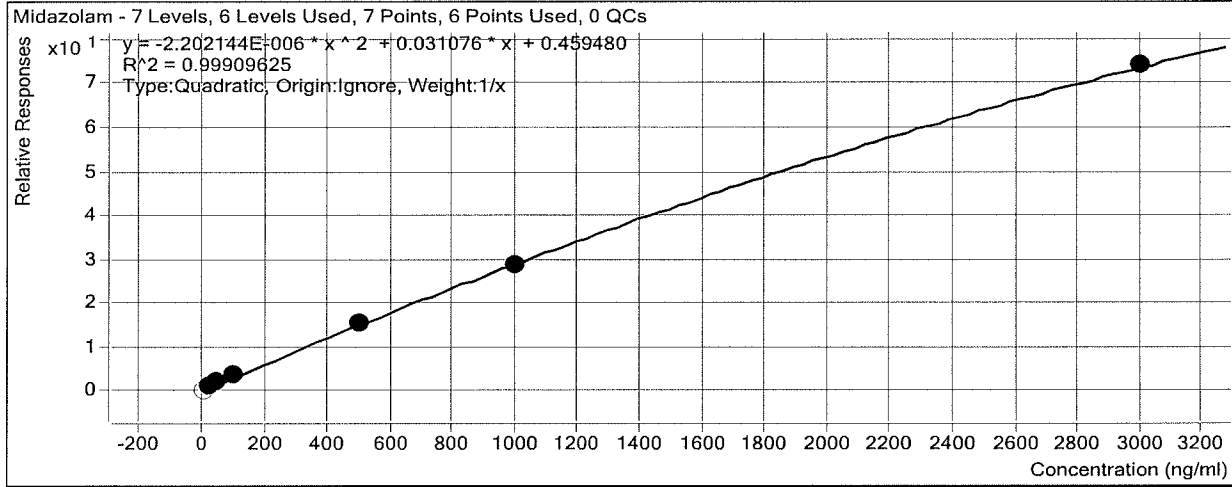
ISP

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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 type="checkbox"/>	10	0.0	0.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	21.2	84.8
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.8	103.5
100 ng/mL	6	<input checked="" type="checkbox"/>	100	113.1	113.1
500 ng/mL	7	<input checked="" type="checkbox"/>	500	502.2	100.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	978.9	97.9
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3009.2	100.3

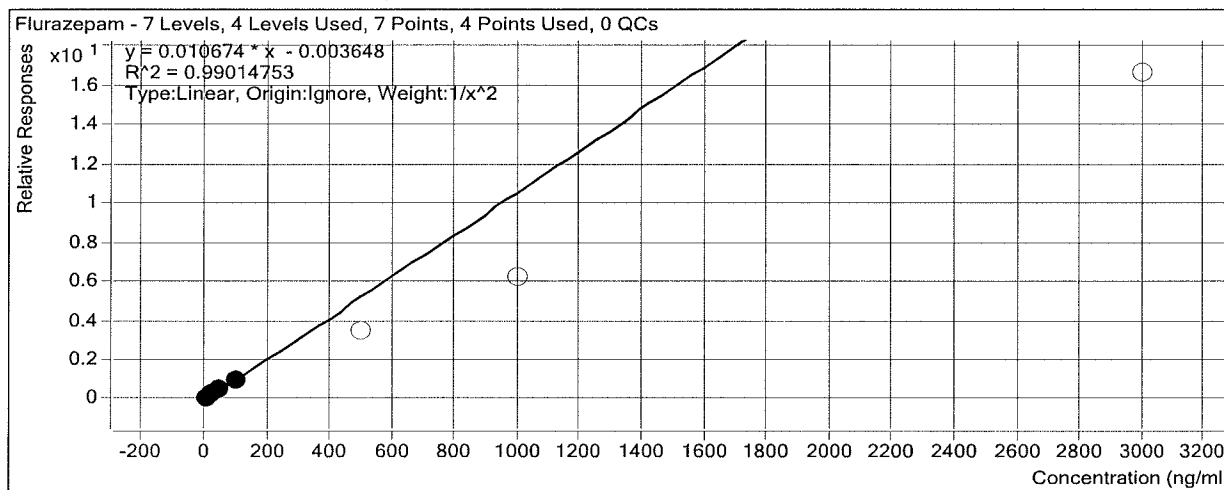
BTJ

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

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



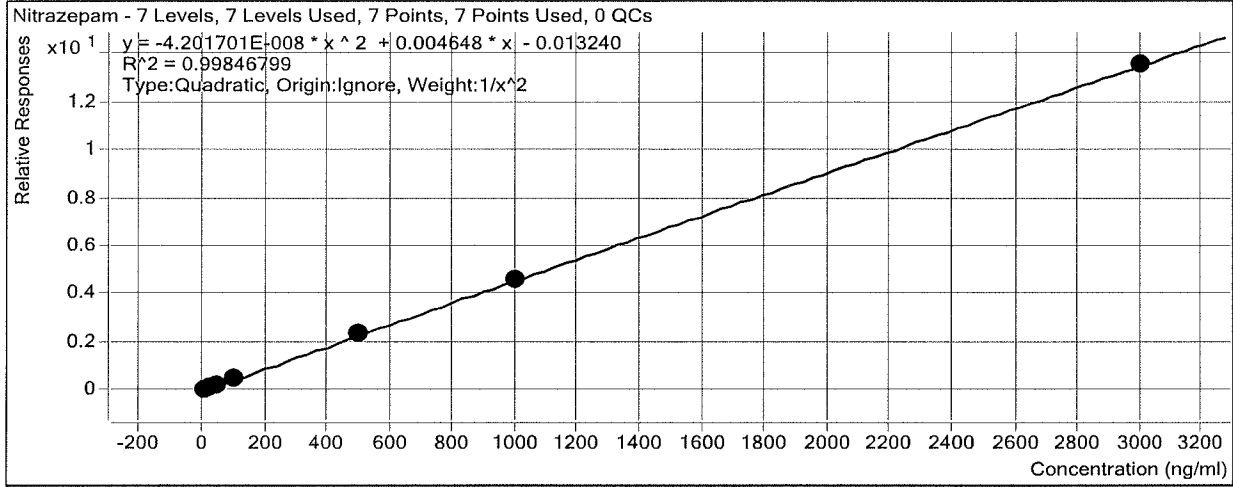
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.7	96.8
25 ng/mL	4	<input checked="" type="checkbox"/>	25	27.1	108.4
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.5	103.1
100 ng/mL	6	<input checked="" type="checkbox"/>	100	91.6	91.6
500 ng/mL	7	<input type="checkbox"/>	500	330.5	66.1
1000 ng/mL	8	<input type="checkbox"/>	1000	580.8	58.1
3000 ng/mL	9	<input type="checkbox"/>	3000	1558.3	51.9

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	10.2	102.1
25 ng/mL	4	<input checked="" type="checkbox"/>	25	23.2	92.8
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.4	102.8
100 ng/mL	6	<input checked="" type="checkbox"/>	100	102.0	102.0
500 ng/mL	7	<input checked="" type="checkbox"/>	500	502.5	100.5
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	999.3	99.9
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	2996.2	99.9

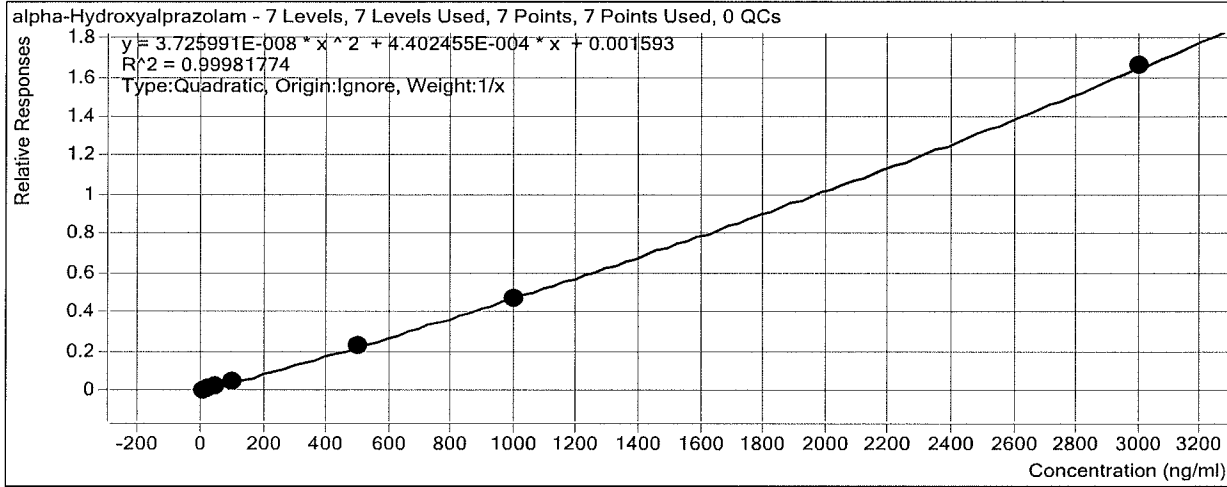
BTJ

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	9.0	90.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.8	103.4
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.3	100.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	105.9	105.9
500 ng/mL	7	<input checked="" type="checkbox"/>	500	509.1	101.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	981.8	98.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3003.5	100.1

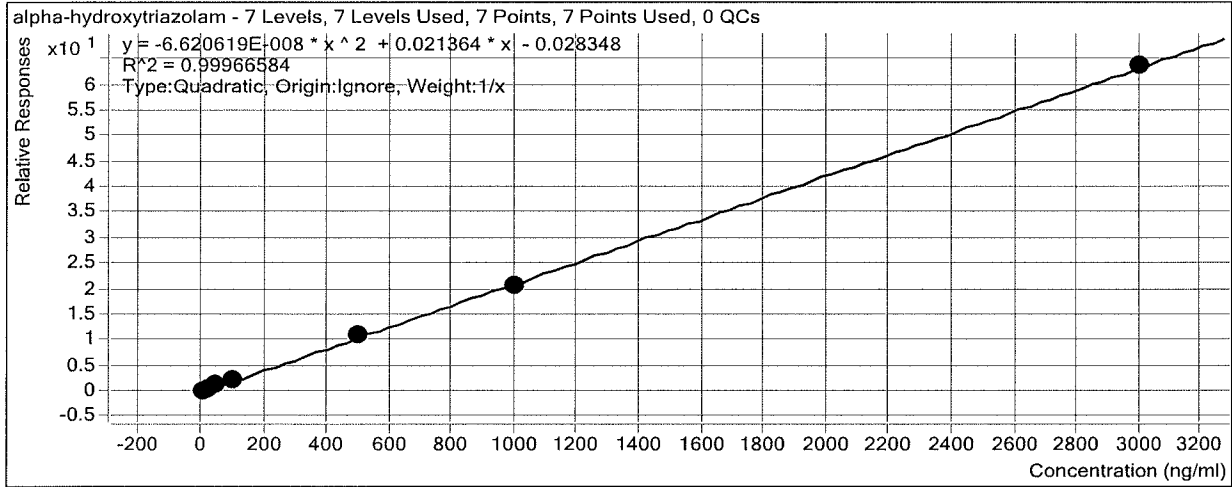
TOX

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.3	92.9
25 ng/mL	4	<input checked="" type="checkbox"/>	25	24.0	96.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.8	107.7
100 ng/mL	6	<input checked="" type="checkbox"/>	100	102.8	102.8
500 ng/mL	7	<input checked="" type="checkbox"/>	500	513.8	102.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	975.4	97.5
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3005.8	100.2

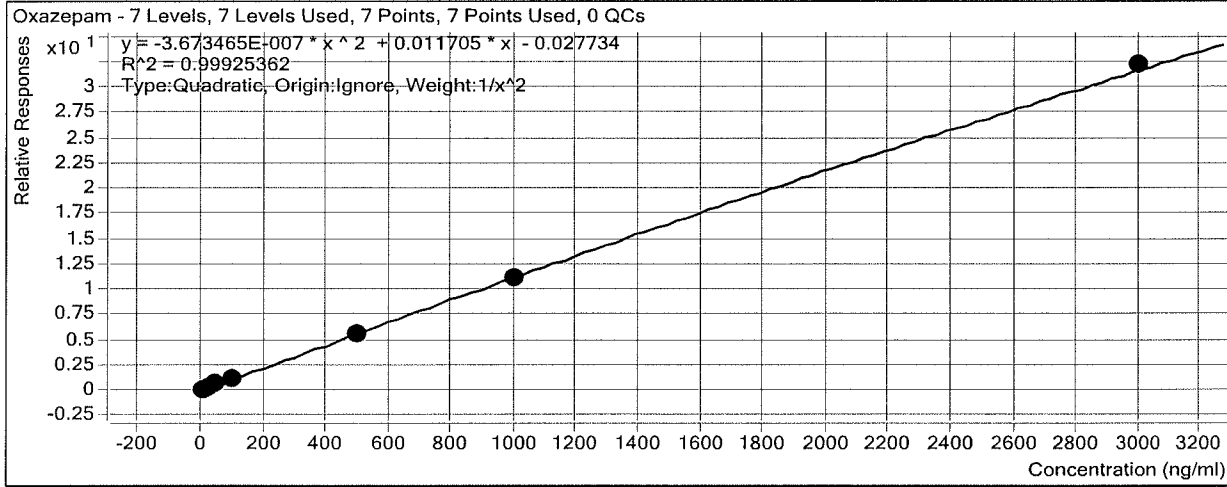
BW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	9.9	98.7
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.4	101.7
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.7	103.3
100 ng/mL	6	<input checked="" type="checkbox"/>	100	100.4	100.4
500 ng/mL	7	<input checked="" type="checkbox"/>	500	482.5	96.5
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	980.7	98.1
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3040.4	101.3

BW

ISP Forensics Calibration Curve Report

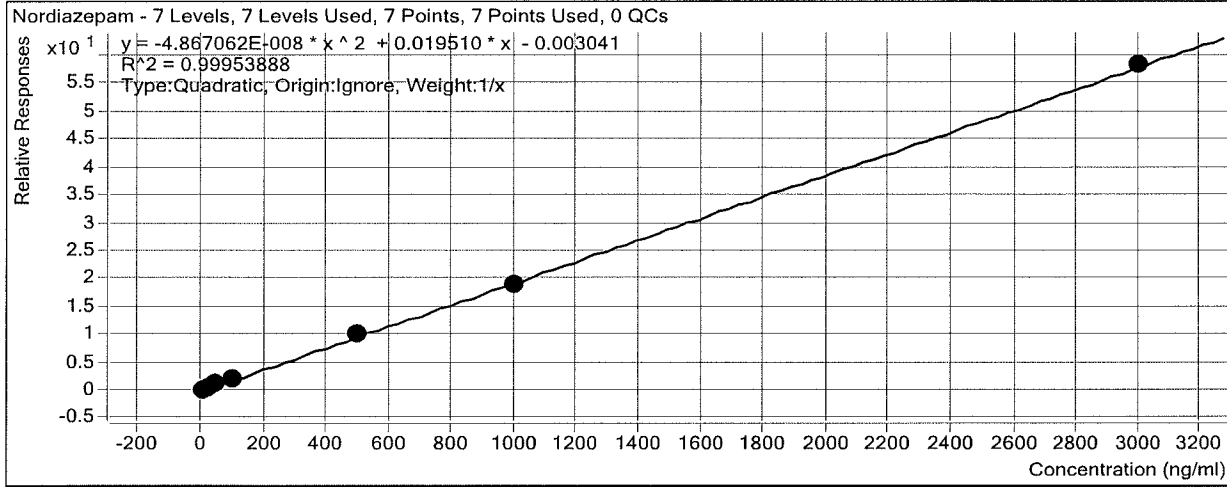
Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	90.4
25 ng/mL	4	<input checked="" type="checkbox"/>	25	23.5	94.0
50 ng/mL	5	<input checked="" type="checkbox"/>	50	55.5	111.0
100 ng/mL	6	<input checked="" type="checkbox"/>	100	104.6	104.6
500 ng/mL	7	<input checked="" type="checkbox"/>	500	512.2	102.4
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	973.5	97.3
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3006.6	100.2

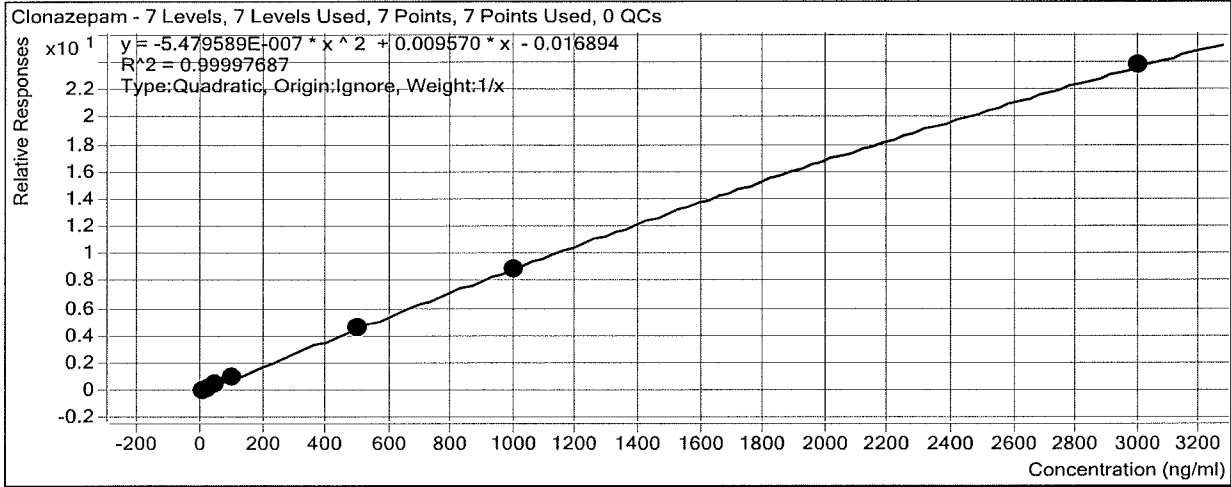
BJ

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

Target Compound Clonazepam
Internal Standard Clonazepam-D4 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	<input checked="" type="checkbox"/>	10	9.8	98.3
25 ngmL	4	<input checked="" type="checkbox"/>	25	24.9	99.7
50 ngmL	5	<input checked="" type="checkbox"/>	50	50.2	100.5
100 ngmL	6	<input checked="" type="checkbox"/>	100	101.4	101.4
500 ngmL	7	<input checked="" type="checkbox"/>	500	503.3	100.7
1000 ngmL	8	<input checked="" type="checkbox"/>	1000	993.4	99.3
3000 ngmL	9	<input checked="" type="checkbox"/>	3000	3002.1	100.1

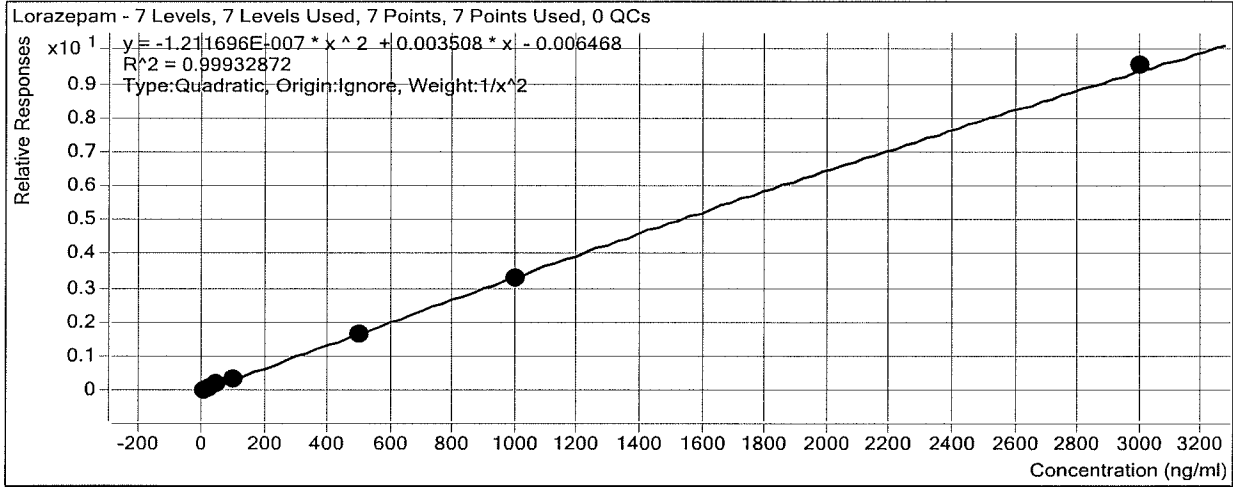
BDJ

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

Target Compound Lorazepam
Internal Standard Oxazepam D5 ISTD



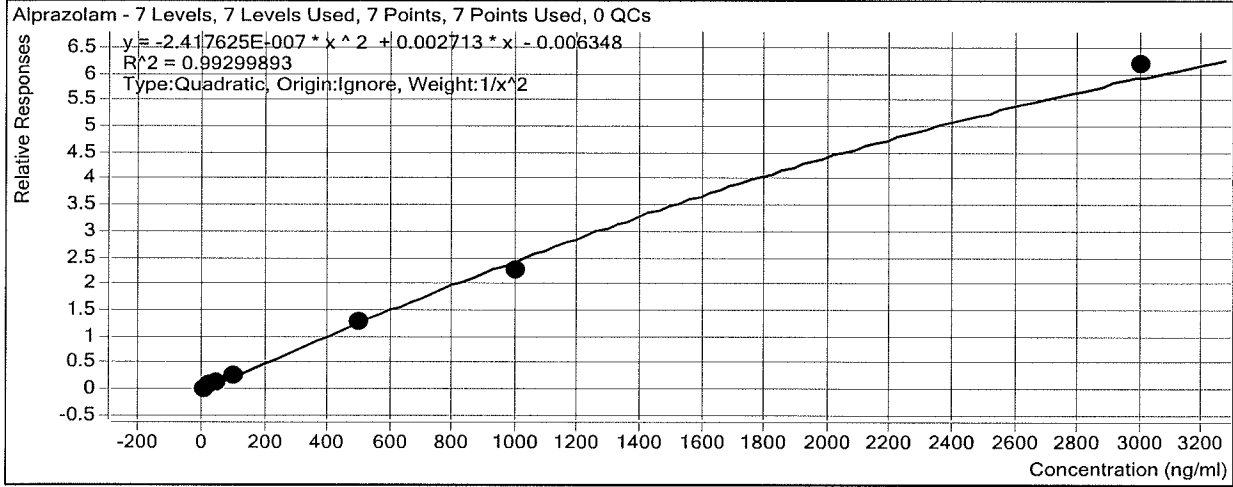
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.9	98.8
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.4	101.6
50 ng/mL	5	<input checked="" type="checkbox"/>	50	51.8	103.6
100 ng/mL	6	<input checked="" type="checkbox"/>	100	99.4	99.4
500 ng/mL	7	<input checked="" type="checkbox"/>	500	489.7	97.9
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	973.8	97.4
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3041.6	101.4

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

Target Compound Alprazolam
Internal Standard alphahydroxyalprazolam-D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.5	95.2
25 ng/mL	4	<input checked="" type="checkbox"/>	25	28.3	113.3
50 ng/mL	5	<input checked="" type="checkbox"/>	50	49.1	98.2
100 ng/mL	6	<input checked="" type="checkbox"/>	100	100.0	100.0
500 ng/mL	7	<input checked="" type="checkbox"/>	500	489.0	97.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	911.8	91.2
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3181.0	106.0

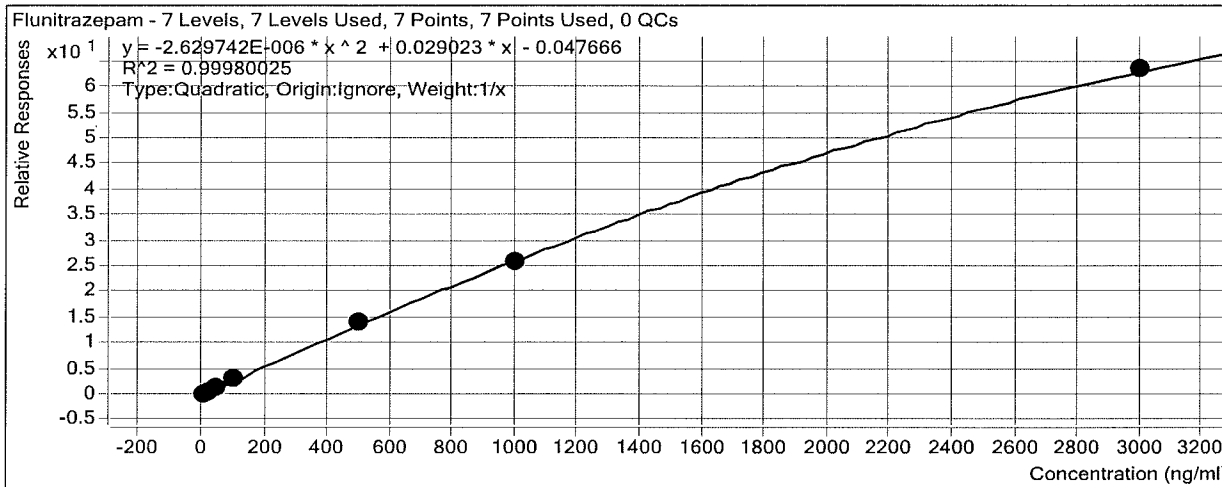
BTW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 PM **Analyst Name** ISP TOX

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



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ng/mL	2	<input checked="" type="checkbox"/>	10	9.1	91.0
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.0	100.1
50 ng/mL	5	<input checked="" type="checkbox"/>	50	53.1	106.3
100 ng/mL	6	<input checked="" type="checkbox"/>	100	103.1	103.1
500 ng/mL	7	<input checked="" type="checkbox"/>	500	504.2	100.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	984.7	98.5
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3007.4	100.2

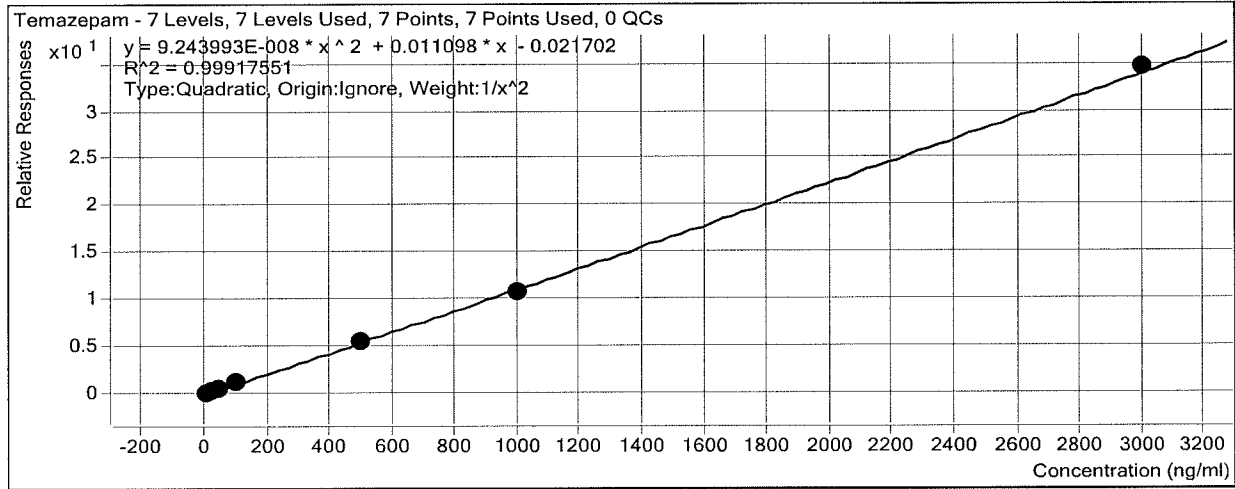
ISP

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	9.8	98.3
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.9	103.7
50 ng/mL	5	<input checked="" type="checkbox"/>	50	50.7	101.3
100 ng/mL	6	<input checked="" type="checkbox"/>	100	99.6	99.6
500 ng/mL	7	<input checked="" type="checkbox"/>	500	499.5	99.9
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	958.5	95.9
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3039.6	101.3

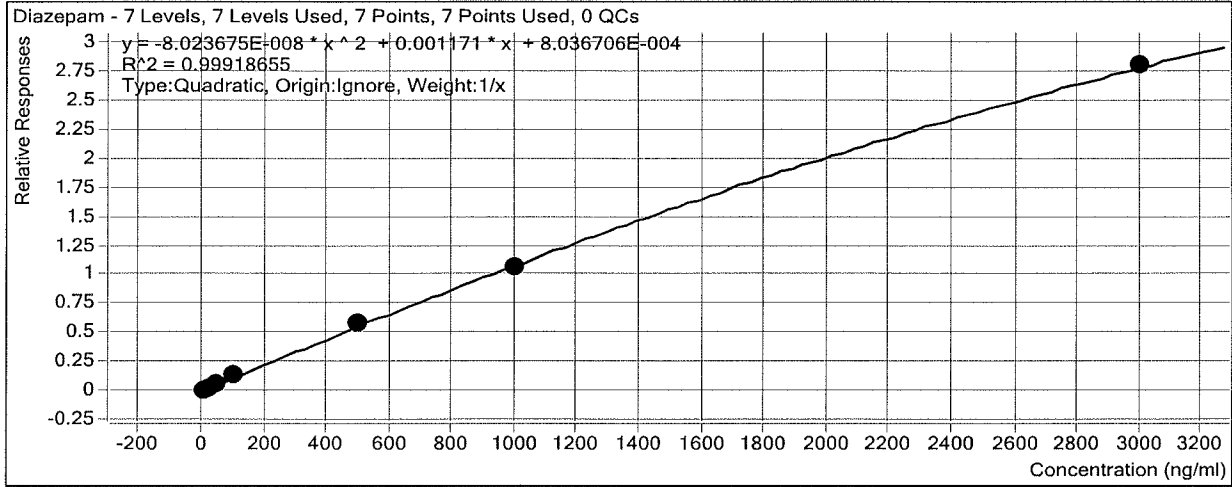
BTW

ISP Forensics Calibration Curve Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin

Last Calib Update 9/19/2017 6:18 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	8.2	82.4
25 ng/mL	4	<input checked="" type="checkbox"/>	25	25.1	100.5
50 ng/mL	5	<input checked="" type="checkbox"/>	50	54.1	108.2
100 ng/mL	6	<input checked="" type="checkbox"/>	100	110.0	110.0
500 ng/mL	7	<input checked="" type="checkbox"/>	500	508.8	101.8
1000 ng/mL	8	<input checked="" type="checkbox"/>	1000	967.5	96.7
3000 ng/mL	9	<input checked="" type="checkbox"/>	3000	3013.0	100.4

ISP FORENSICS - Cd'A Instrument # 62340

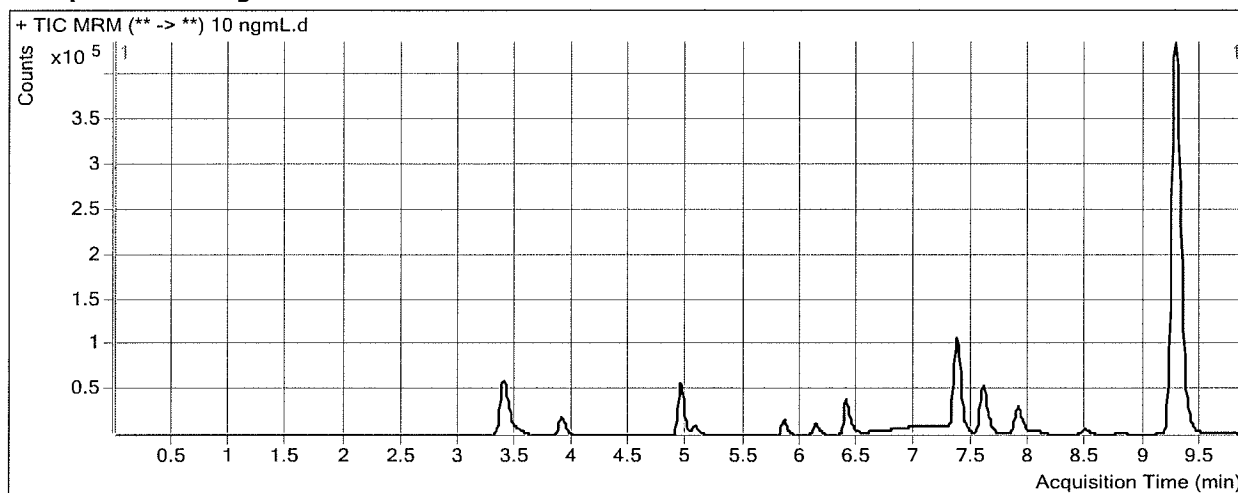
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 10:58 **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 9/12/17- 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	4861	269245	0.0181	8.2155
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.520	18906	269245	0.0702	0.0000
zopiclone	Oxazepam D5 ISTD	3.898	56123	132312	0.4242	9.4915
zolpidem	Oxazepam D5 ISTD	4.936	164980	132312	1.2469	0.0000
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.065	31318	21097	1.4845	8.1250
quetiapine	Oxazepam D5 ISTD	5.847	37028	132312	0.2799	0.0000
Midazolam	Clonazepam-D4 ISTD	6.126	48457	107944	0.4489	0.0000
Flurazepam	Diazepam-D5 ISTD	6.396	129711	1300668	0.0997	9.6847
Nitrazepam	Clonazepam-D4 ISTD	7.208	3693	107944	0.0342	10.2110
alpha-Hydroxyalprazolam	alphanhydroxyalprazolam-D5 ISTD	7.397	1553	279464	0.0056	9.0011
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	3588	21097	0.1701	9.2884
Oxazepam	Oxazepam D5 ISTD	7.628	11611	132312	0.0878	9.8695
Nordiazepam	Nordiazepam-D5 ISTD	7.680	3655	21097	0.1732	9.0357
Clonazepam	Clonazepam-D4 ISTD	7.929	8331	107944	0.0772	9.8348
Lorazepam	Oxazepam D5 ISTD	7.994	3726	132312	0.0282	9.8754
Alprazolam	alphanhydroxyalprazolam-D5 ISTD	8.054	5435	279464	0.0194	9.5155
Flunitrazepam	Clonazepam-D4 ISTD	8.471	23325	107944	0.2161	9.0950
Temazepam	Oxazepam D5 ISTD	8.773	11570	132312	0.0874	9.8345
Diazepam	Diazepam-D5 ISTD	9.377	13586	1300668	0.0104	8.2358

ISP FORENSICS - Cd'A Instrument # 62340

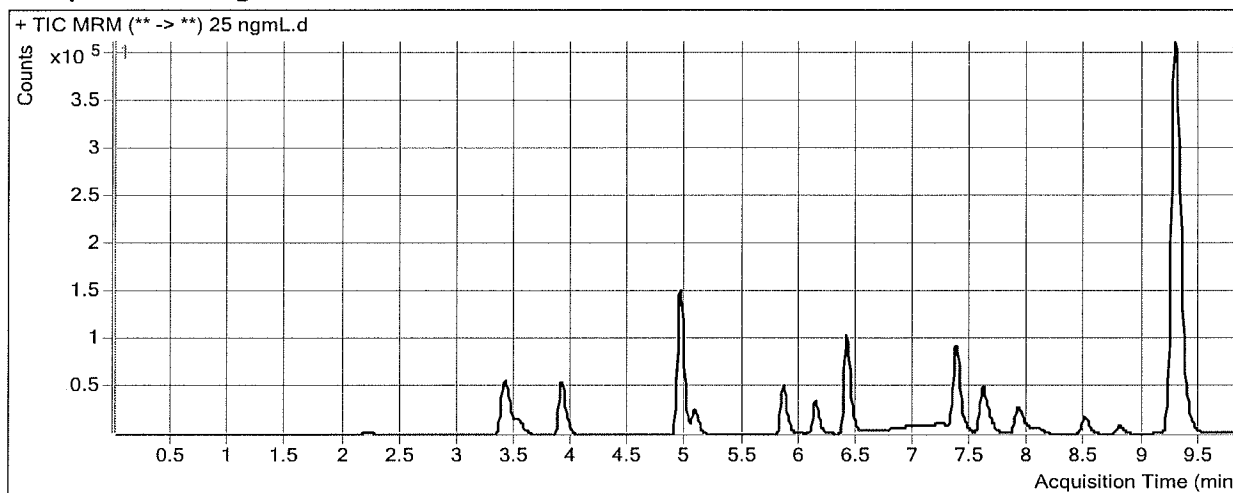
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 11:12 **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 9/12/17- 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	9793	228897	0.0428	26.1305
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.536	51505	228897	0.2250	20.3149
zopiclone	Oxazepam D5 ISTD	3.907	154223	113180	1.3626	28.5791
zolpidem	Oxazepam D5 ISTD	4.945	497709	113180	4.3975	20.9219
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.073	79811	20220	3.9471	24.1370
quetiapine	Oxazepam D5 ISTD	5.856	136725	113180	1.2080	21.7181
Midazolam	Clonazepam-D4 ISTD	6.134	105936	94818	1.1173	21.1987
Flurazepam	Diazepam-D5 ISTD	6.404	349199	1222198	0.2857	27.1090
Nitrazepam	Clonazepam-D4 ISTD	7.225	8968	94818	0.0946	23.2026
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.397	3016	232087	0.0130	25.8451
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.455	9805	20220	0.4849	24.0252
Oxazepam	Oxazepam D5 ISTD	7.645	30523	113180	0.2697	25.4294
Nordiazepam	Nordiazepam-D5 ISTD	7.689	9209	20220	0.4555	23.5020
Clonazepam	Clonazepam-D4 ISTD	7.937	20991	94818	0.2214	24.9328
Lorazepam	Oxazepam D5 ISTD	8.002	9349	113180	0.0826	25.4119
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.071	16318	232087	0.0703	28.3254
Flunitrazepam	Clonazepam-D4 ISTD	8.480	64195	94818	0.6770	25.0262
Temazepam	Oxazepam D5 ISTD	8.782	30109	113180	0.2660	25.9209
Diazepam	Diazepam-D5 ISTD	9.385	36894	1222198	0.0302	25.1273

ISP FORENSICS - Cd'A Instrument # 62340

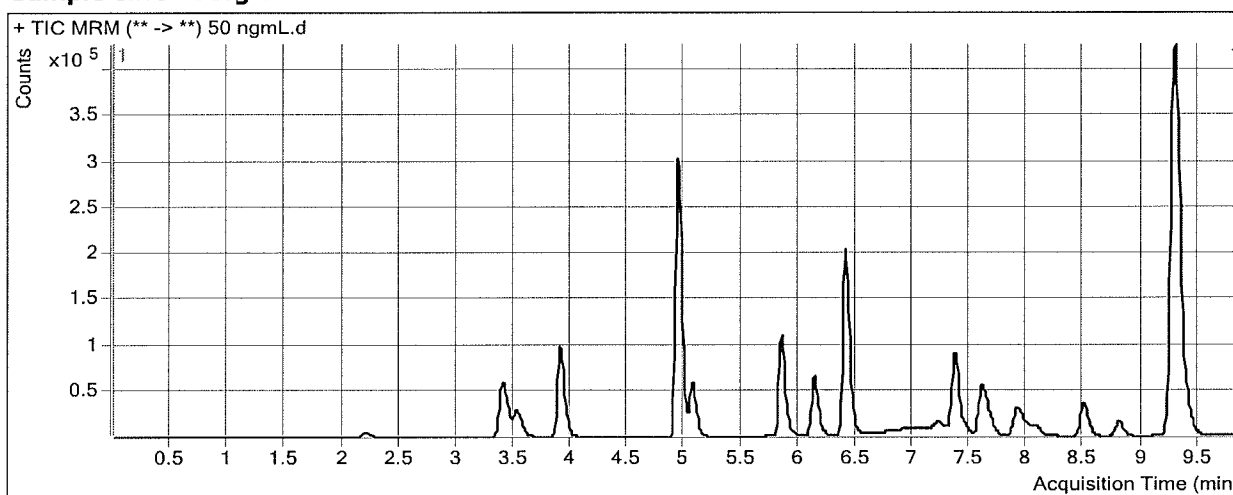
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 11:27 **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 9/12/17- 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	20104	266483	0.0754	49.7950
7-Aminoflunitrazepam	ISTD	3.528	106291	266483	0.3989	53.5894
zopiclone	Oxazepam D5 ISTD	3.898	278493	120129	2.3183	48.0288
zolpidem	Oxazepam D5 ISTD	4.936	897305	120129	7.4695	52.5213
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.073	175953	19494	9.0262	57.1616
quetiapine	Oxazepam D5 ISTD	5.847	256377	120129	2.1342	53.9549
Midazolam	Clonazepam-D4 ISTD	6.134	192440	93319	2.0622	51.7635
Flurazepam	Diazepam-D5 ISTD	6.396	693177	1268503	0.5465	51.5364
Nitrazepam	Clonazepam-D4 ISTD	7.217	21049	93319	0.2256	51.4006
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.405	5421	227535	0.0238	50.2849
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.455	21866	19494	1.1217	53.8395
Oxazepam	Oxazepam D5 ISTD	7.637	69189	120129	0.5760	51.6577
Nordiazepam	Nordiazepam-D5 ISTD	7.689	21041	19494	1.0794	55.4871
Clonazepam	Clonazepam-D4 ISTD	7.937	43162	93319	0.4625	50.2388
Lorazepam	Oxazepam D5 ISTD	8.002	21003	120129	0.1748	51.7764
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.071	28742	227535	0.1263	49.1129
Flunitrazepam	Clonazepam-D4 ISTD	8.480	138791	93319	1.4873	53.1421
Temazepam	Oxazepam D5 ISTD	8.790	64957	120129	0.5407	50.6577
Diazepam	Diazepam-D5 ISTD	9.385	81113	1268503	0.0639	54.1030

ISP FORENSICS - Cd'A Instrument # 62340

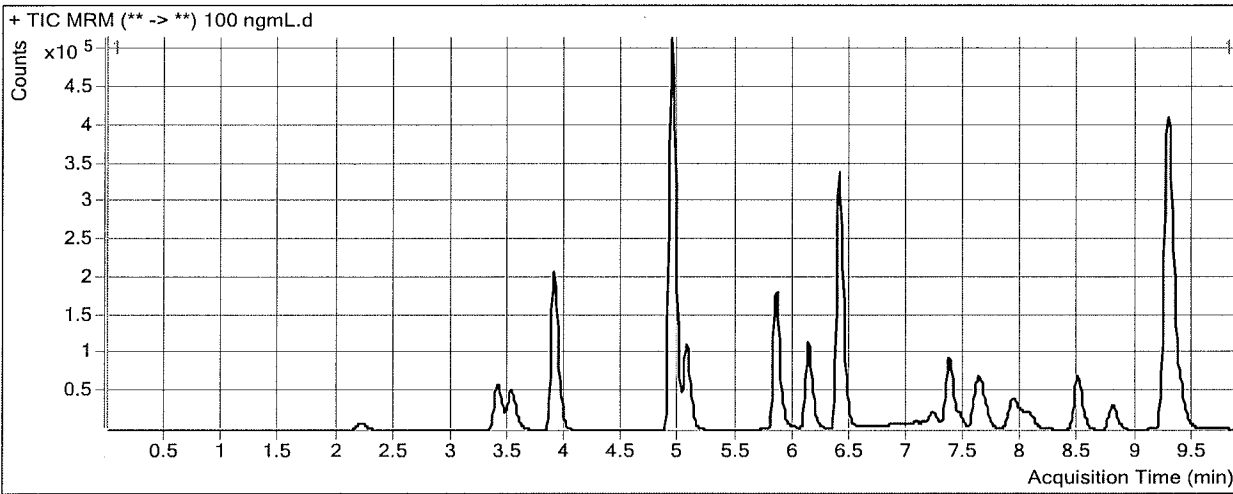
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 11:42 **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 9/12/17- 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	41008	268331	0.1528	105.8627
7-Aminoflunitrazepam	ISTD	3.528	186543	268331	0.6952	110.5898
zopiclone	Oxazepam D5 ISTD	3.898	596478	118852	5.0187	103.0555
zolpidem	Oxazepam D5 ISTD	4.928	1576090	118852	13.2609	112.2981
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.065	339320	19626	17.2896	110.8902
quetiapine	Oxazepam D5 ISTD	5.847	430835	118852	3.6250	106.1396
Midazolam	Clonazepam-D4 ISTD	6.126	365669	92678	3.9456	113.0862
Flurazepam	Diazepam-D5 ISTD	6.387	1191252	1222336	0.9746	91.6448
Nitrazepam	Clonazepam-D4 ISTD	7.217	42658	92678	0.4603	101.9692
alpha-Hydroxyalprazolam	ISTD	7.397	11291	232150	0.0486	105.9062
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	42552	19626	2.1682	102.8447
Oxazepam	Oxazepam D5 ISTD	7.637	135937	118852	1.1437	100.3965
Nordiazepam	Nordiazepam-D5 ISTD	7.680	40000	19626	2.0381	104.6497
Clonazepam	Clonazepam-D4 ISTD	7.937	87829	92678	0.9477	101.3762
Lorazepam	Oxazepam D5 ISTD	8.002	40531	118852	0.3410	99.3976
Alprazolam	ISTD	8.063	60933	232150	0.2625	99.9712
Flunitrazepam	Clonazepam-D4 ISTD	8.471	270407	92678	2.9177	103.1351
Temazepam	Oxazepam D5 ISTD	8.782	128869	118852	1.0843	99.5748
Diazepam	Diazepam-D5 ISTD	9.377	157336	1222336	0.1287	110.0289

ISP

ISP FORENSICS - Cd'A Instrument # 62340

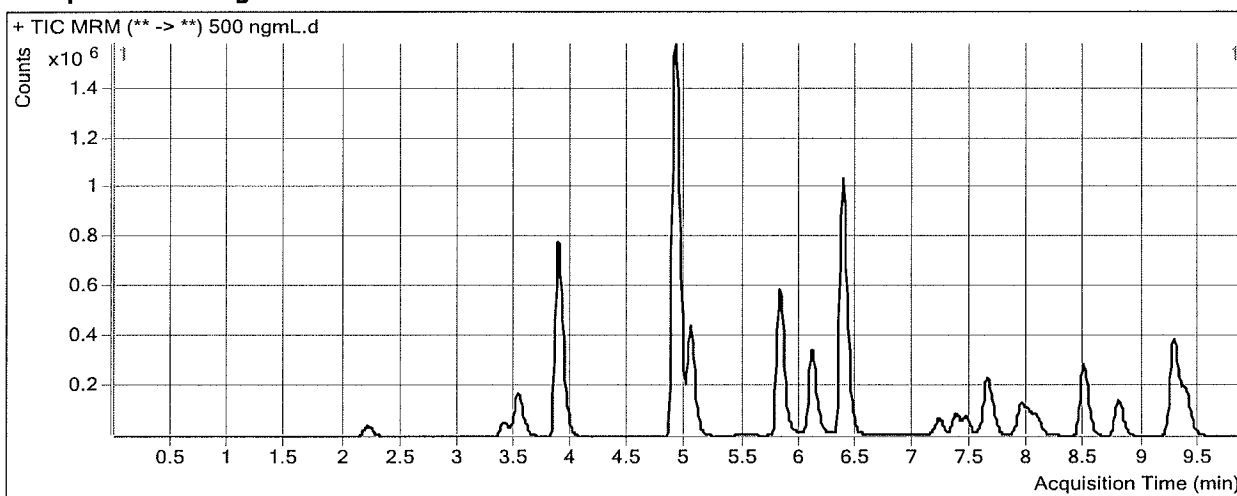
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 11:57 **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 9/12/17- 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	193988	254210	0.7631	548.0349
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.528	715442	254210	2.8144	529.2483
zopiclone	Oxazepam D5 ISTD	3.882	2466884	107302	22.9902	471.8883
zolpidem	Oxazepam D5 ISTD	4.903	5440313	107302	50.7011	505.4649
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.039	1427644	18205	78.4217	508.3726
quetiapine	Oxazepam D5 ISTD	5.821	1561803	107302	14.5552	500.6077
Midazolam	Clonazepam-D4 ISTD	6.109	1250792	80644	15.5100	502.1849
Flurazepam	Diazepam-D5 ISTD	6.371	4045125	1147793	3.5243	330.5138
Nitrazepam	Clonazepam-D4 ISTD	7.217	186446	80644	2.3120	502.5319
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.397	49914	212048	0.2354	509.1241
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	198994	18205	10.9309	513.7893
Oxazepam	Oxazepam D5 ISTD	7.637	593893	107302	5.5348	482.5155
Nordiazepam	Nordiazepam-D5 ISTD	7.680	181637	18205	9.9775	512.2124
Clonazepam	Clonazepam-D4 ISTD	7.929	375898	80644	4.6612	503.3136
Lorazepam	Oxazepam D5 ISTD	7.994	180501	107302	1.6822	489.6508
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.063	267724	212048	1.2626	488.9990
Flunitrazepam	Clonazepam-D4 ISTD	8.472	1122416	80644	13.9181	504.2244
Temazepam	Oxazepam D5 ISTD	8.782	595000	107302	5.5451	499.5319
Diazepam	Diazepam-D5 ISTD	9.377	661188	1147793	0.5761	508.8217

ISP FORENSICS - Cd'A Instrument # 62340

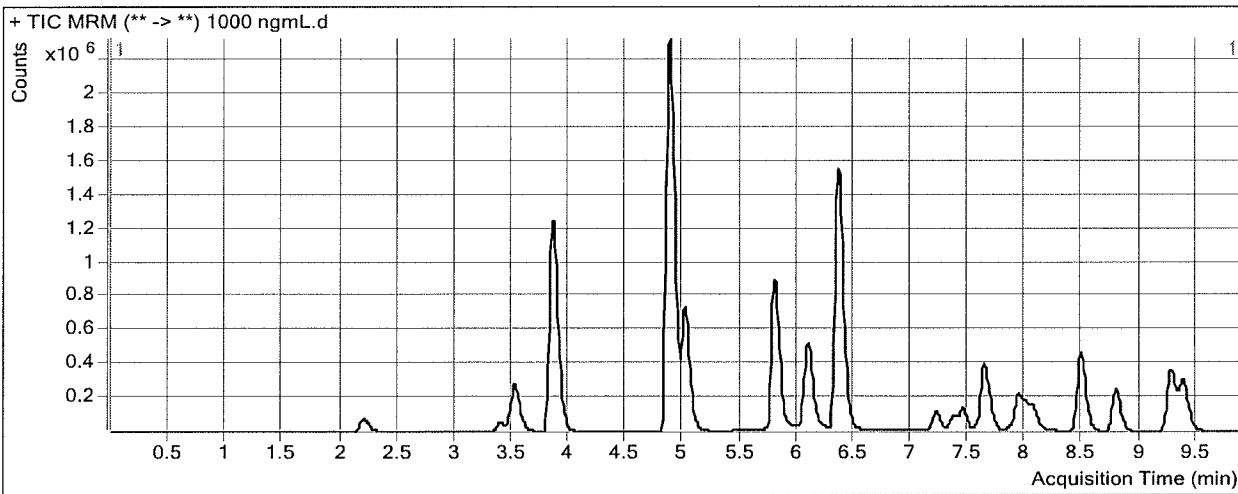
Benzodiazepine Analysis Report

Batch Data Path D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin
Analysis Time 9/19/2017 6:18 PM **Analyst Name** ISP Tox
Report Time 9/19/2017 6:21 PM **Reporter Name** ISP Tox
Last Calib Update 9/19/2017 6:18 PM **Batch State** Processed

Analysis Info

Acq Time 2017-09-19 12:11 **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 9/12/17- 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	342818	247068	1.3875	1000.4697
7-Aminoflunitrazepam	ISTD	3.520	1192091	247068	4.8250	946.2755
zopiclone	Oxazepam D5 ISTD	3.857	4353624	95287	45.6896	944.4597
zolpidem	Oxazepam D5 ISTD	4.878	8961976	95287	94.0525	976.3326
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.014	2481844	17111	145.0436	941.5497
quetiapine	Oxazepam D5 ISTD	5.796	2595061	95287	27.2342	987.9959
Midazolam	Clonazepam-D4 ISTD	6.092	2045702	71109	28.7685	978.8639
Flurazepam	Diazepam-D5 ISTD	6.354	6633909	1070732	6.1957	580.7864
Nitrazepam	Clonazepam-D4 ISTD	7.208	326363	71109	4.5896	999.2997
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.389	90634	192950	0.4697	981.7740
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	355008	17111	20.7473	975.3968
Oxazepam	Oxazepam D5 ISTD	7.628	1057530	95287	11.0984	980.6905
Nordiazepam	Nordiazepam-D5 ISTD	7.672	324143	17111	18.9435	973.4822
Clonazepam	Clonazepam-D4 ISTD	7.929	636370	71109	8.9492	993.3620
Lorazepam	Oxazepam D5 ISTD	7.994	313948	95287	3.2948	973.8123
Alprazolam	alphahydroxyalprazolam-D5 ISTD	8.054	437314	192950	2.2665	911.7849
Flunitrazepam	Clonazepam-D4 ISTD	8.472	1847559	71109	25.9821	984.7084
Temazepam	Oxazepam D5 ISTD	8.773	1019672	95287	10.7011	958.5455
Diazepam	Diazepam-D5 ISTD	9.377	1133857	1070732	1.0590	967.4527

ISP FORENSICS - Cd'A Instrument # 62340

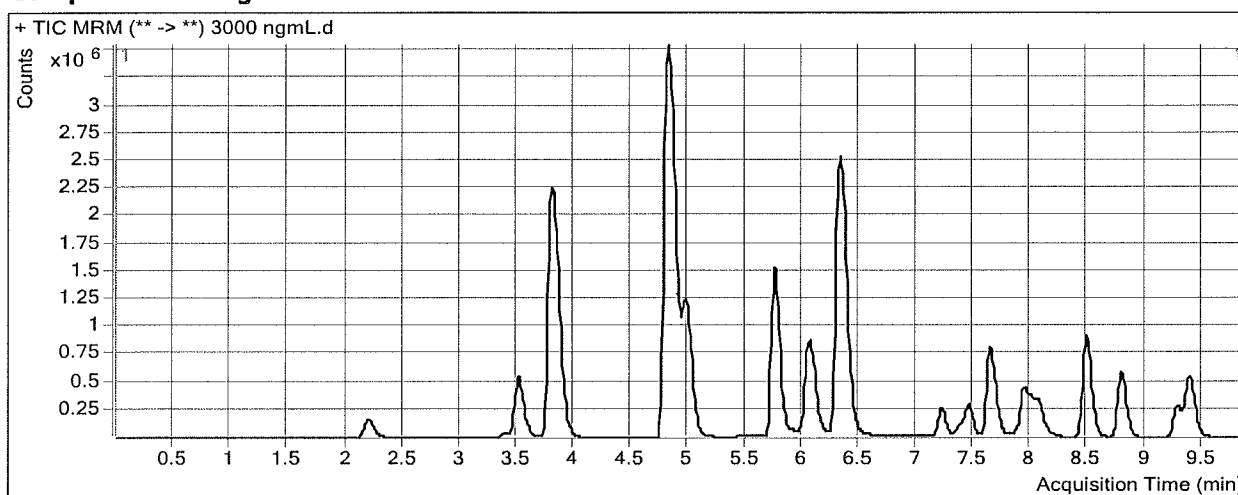
Benzodiazepine Analysis Report

Batch Data Path	D:\2017 Data\9-19-17 urine benz\QuantResults\9-19-17 AM 13.batch.bin		
Analysis Time	9/19/2017 6:18 PM	Analyst Name	ISP Tox
Report Time	9/19/2017 6:21 PM	Reporter Name	ISP Tox
Last Calib Update	9/19/2017 6:18 PM	Batch State	Processed

Analysis Info

Acq Time	2017-09-19 12:26	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 9/12/17- 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	775216	190312	4.0734	2946.4917
7-Aminoflunitrazepam	7-Aminoflunitrazepam-D7 ISTD	3.511	2535556	190312	13.3232	3016.4626
zopiclone	Oxazepam D5 ISTD	3.807	9949718	69117	143.9551	3085.9883
zolpidem	Oxazepam D5 ISTD	4.820	18142414	69117	262.4892	3007.7628
Chlordiazepoxide	Nordiazepam-D5 ISTD	4.981	5577938	11945	466.9763	3034.7638
quetiapine	Oxazepam D5 ISTD	5.755	4838167	69117	69.9999	3005.2264
Midazolam	Clonazepam-D4 ISTD	6.067	4279997	57812	74.0324	3009.2167
Flurazepam	Diazepam-D5 ISTD	6.329	13311081	800434	16.6298	1558.3151
Nitrazepam	Clonazepam-D4 ISTD	7.217	782553	57812	13.5361	2996.1931
alpha-Hydroxyalprazolam	alphahydroxyalprazolam-D5 ISTD	7.397	261180	157340	1.6600	3003.4712
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.446	759577	11945	63.5906	3005.8200
Oxazepam	Oxazepam D5 ISTD	7.637	2223164	69117	32.1653	3040.3607
Nordiazepam	Nordiazepam-D5 ISTD	7.680	695384	11945	58.2165	3006.6343
Clonazepam	Clonazepam-D4 ISTD	7.929	1374541	57812	23.7759	3002.1199
Lorazepam	Oxazepam D5 ISTD alphahydroxyalprazolam-D5	7.994	659552	69117	9.5426	3041.6258
Alprazolam	ISTD	8.063	972012	157340	6.1778	3180.9791
Flunitrazepam	Clonazepam-D4 ISTD	8.472	3668402	57812	63.4535	3007.4370
Temazepam	Oxazepam D5 ISTD	8.782	2389075	69117	34.5658	3039.6214
Diazepam	Diazepam-D5 ISTD	9.385	2242601	800434	2.8017	3012.9662

BW

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request

8/30/2017

Forensic Scientist

Britany Wylie

Analytical Method

AM 13 - LCMS-QQQ Confirmation of Benzodiazepines and Z-drugs in Blood and Urine

Request

I am requesting a deviation to prepare the calibrator working solutions using serial dilution. I will prepare the 10ug/mL working solution as defined in the AM, however the 1ug/mL calibrator working solution will be prepared by using 1mL of the 10ug/mL solution and diluting to 10mL total volume. We have seen in the past a large shift in instrument response between the 2 calibrator points where the 1 vs 10ug/mL solutions are used. This is not a quantitative analytical method, therefore no reported values will be effected. Using serial dilution will reduce the volume of stock solution used and decrease the likelihood of the large response shift between the 2 different working solutions. Once the next run has been completed preparation will be assessed and a change to the AM may occur.

Discipline Leader Review

Departure approved

Comments:

Departure Not Approved

Comments:

Celena Shum

Date: 08/31/2017