ISP Forensics
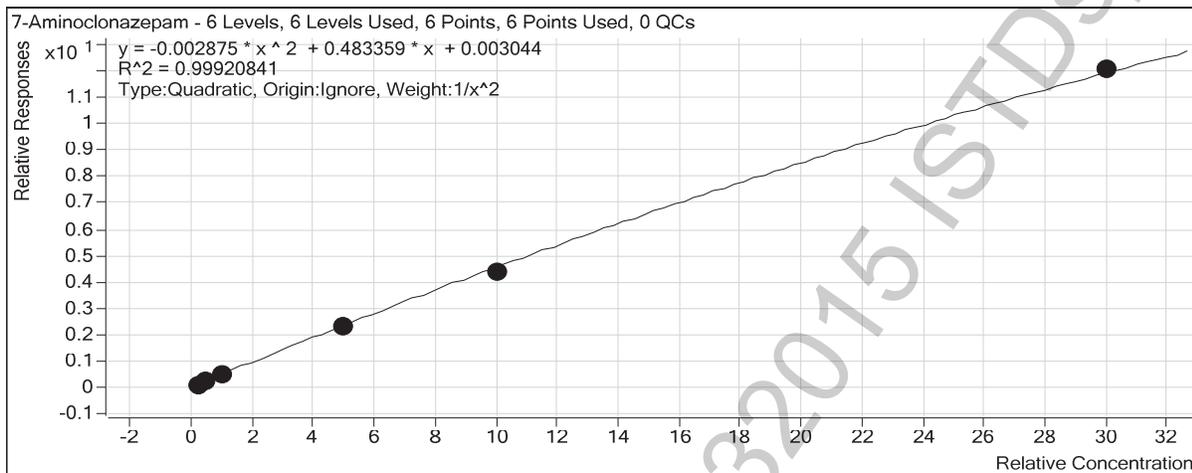# Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

7-Aminoclonazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.002875 * x \char`\^ 2 + 0.483359 * x + 0.003044$
$R\char`\^2 = 0.99920841$
Type:Quadratic, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	24.6	98.2
50 ngmL	5	☑	50	51.6	103.3
100 ngmL	6	☑	100	100.8	100.8
500 ngmL	7	☑	500	497.5	99.5
1000 ngmL	8	☑	1000	968.2	96.8
3000 ngmL	9	☑	3000	3044.4	101.5

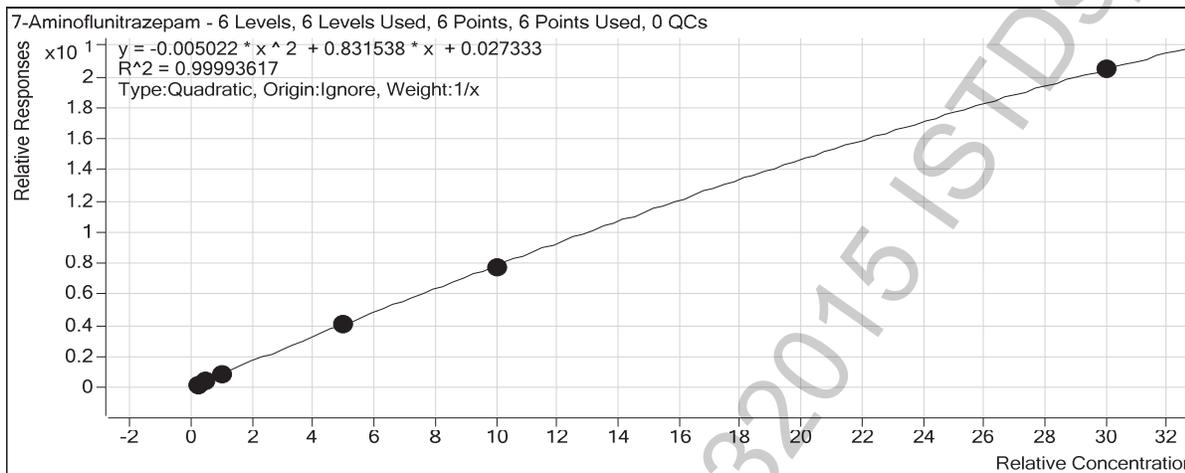Review of central file verified on peer review sheet in each case file. 07/09/2015

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

7-Aminoflunitrazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.005022 * x^2 + 0.831538 * x + 0.027333$
$R^2 = 0.99993617$
Type:Quadratic, Origin:Ignore, Weight:1/x

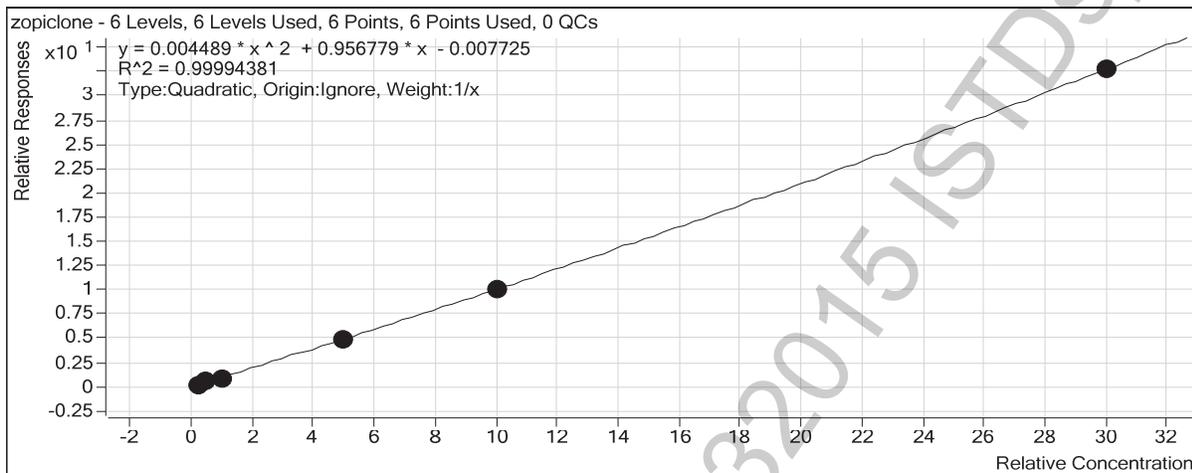| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	23.6	94.5
50 ngmL	5	☑	50	51.9	103.9
100 ngmL	6	☑	100	102.0	102.0
500 ngmL	7	☑	500	499.7	99.9
1000 ngmL	8	☑	1000	996.3	99.6
3000 ngmL	9	☑	3000	3001.7	100.1

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

Target Compound   zopiclone
Internal Standard   *Oxazepam D5 ISTD*

zopiclone - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = 0.004489 * x \wedge 2 + 0.956779 * x - 0.007725$
$R\wedge 2 = 0.99994381$
Type:Quadratic, Origin:Ignore, Weight:1/x

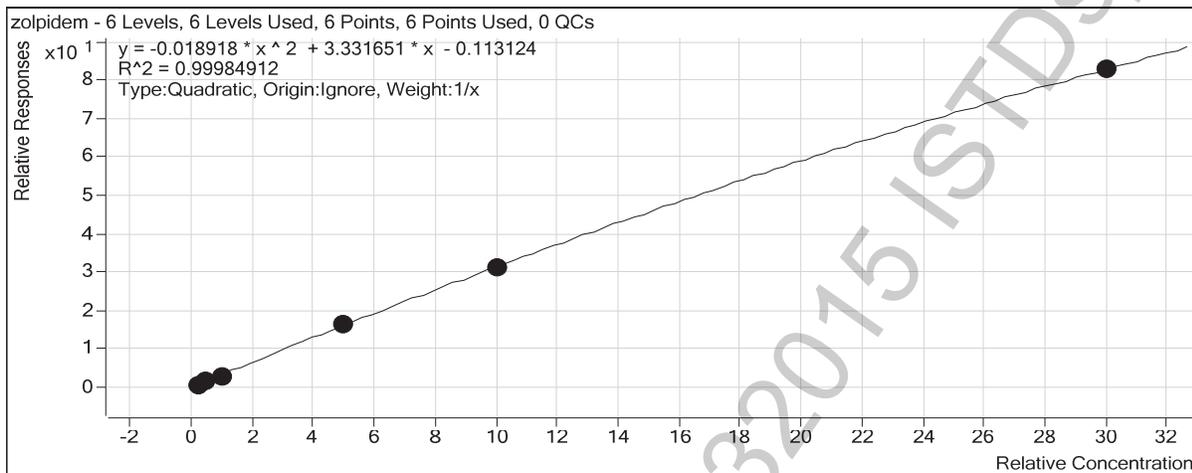| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	25.2	101.0
50 ngmL	5	☑	50	51.5	103.0
100 ngmL	6	☑	100	96.1	96.1
500 ngmL	7	☑	500	496.4	99.3
1000 ngmL	8	☑	1000	1007.1	100.7
3000 ngmL	9	☑	3000	2998.5	100.0

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

zolpidem - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.018918 * x \wedge 2 + 3.331651 * x - 0.113124$
$R\wedge 2 = 0.99984912$
Type:Quadratic, Origin:Ignore, Weight:1/x

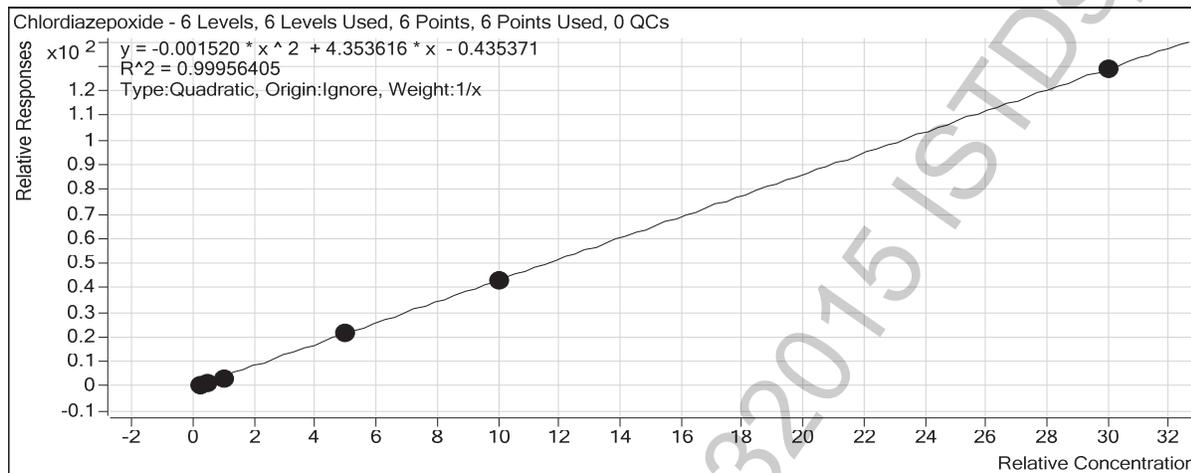| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	26.0	104.1
50 ngmL	5	☑	50	50.2	100.4
100 ngmL	6	☑	100	94.3	94.3
500 ngmL	7	☑	500	507.6	101.5
1000 ngmL	8	☑	1000	997.1	99.7
3000 ngmL	9	☑	3000	2999.8	100.0

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Chlordiazepoxide - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$$y = -0.001520 * x^2 + 4.353616 * x - 0.435371$$
$$R^2 = 0.99956405$$
Type:Quadratic, Origin:Ignore, Weight:1/x

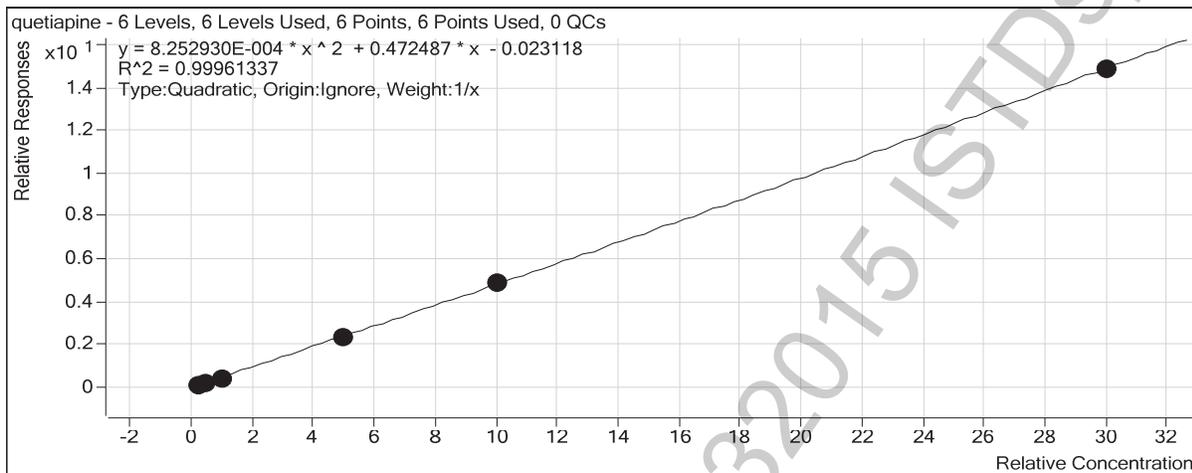| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	28.0	112.1
50 ngmL	5	☑	50	48.9	97.7
100 ngmL	6	☑	100	88.6	88.6
500 ngmL	7	☑	500	504.6	100.9
1000 ngmL	8	☑	1000	1008.0	100.8
3000 ngmL	9	☑	3000	2996.9	99.9

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

quetiapine - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = 8.252930E\text{-}004 * x \char`^ 2 + 0.472487 * x - 0.023118$
$R\char`^2 = 0.99961337$
Type:Quadratic, Origin:Ignore, Weight:1/x

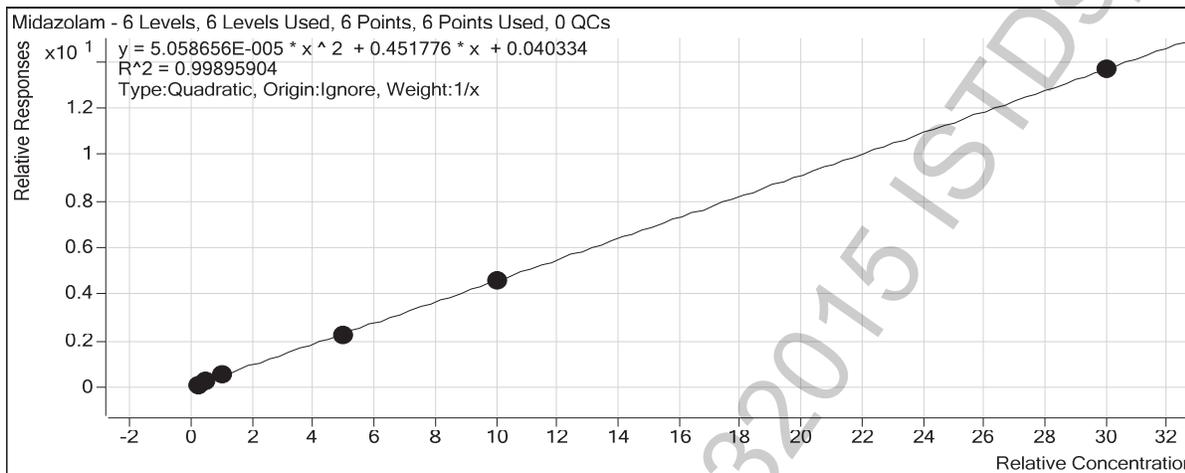| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	27.4	109.7
50 ngmL	5	☑	50	49.0	98.1
100 ngmL	6	☑	100	92.5	92.5
500 ngmL	7	☑	500	487.6	97.5
1000 ngmL	8	☑	1000	1023.7	102.4
3000 ngmL	9	☑	3000	2994.7	99.8

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Midazolam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = 5.058656E{-}005 * x \wedge 2 + 0.451776 * x + 0.040334$
$R^2 = 0.99895904$
Type:Quadratic, Origin:Ignore, Weight:1/x

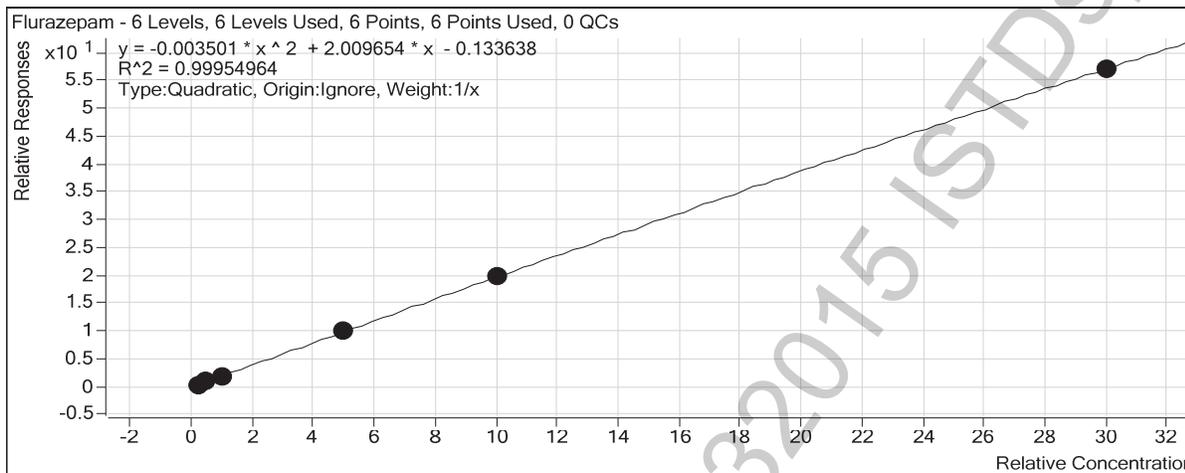| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	20.3	81.0
50 ngmL	5	☑	50	53.2	106.3
100 ngmL	6	☑	100	116.1	116.1
500 ngmL	7	☑	500	481.5	96.3
1000 ngmL	8	☑	1000	1002.3	100.2
3000 ngmL	9	☑	3000	3001.8	100.1

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

Target Compound   Flurazepam
Internal Standard   *Diazepam-D5 ISTD*

Flurazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.003501 * x ^ 2 + 2.009654 * x - 0.133638$
$R^2 = 0.99954964$
Type:Quadratic, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	27.7	110.6
50 ngmL	5	☑	50	49.8	99.5
100 ngmL	6	☑	100	88.4	88.4
500 ngmL	7	☑	500	502.8	100.6
1000 ngmL	8	☑	1000	1010.1	101.0
3000 ngmL	9	☑	3000	2996.3	99.9

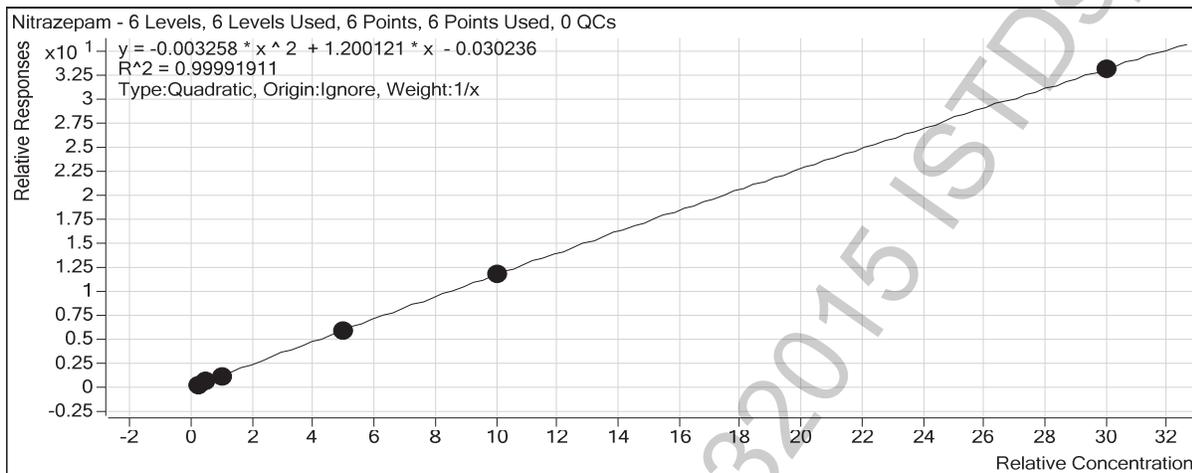# ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

Target Compound   Nitrazepam
Internal Standard   *Clonazepam-D4 ISTD*

Nitrazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.003258 * x \char`^ 2 + 1.200121 * x - 0.030236$
$R\char`^2 = 0.99991911$
Type:Quadratic, Origin:Ignore, Weight:1/x

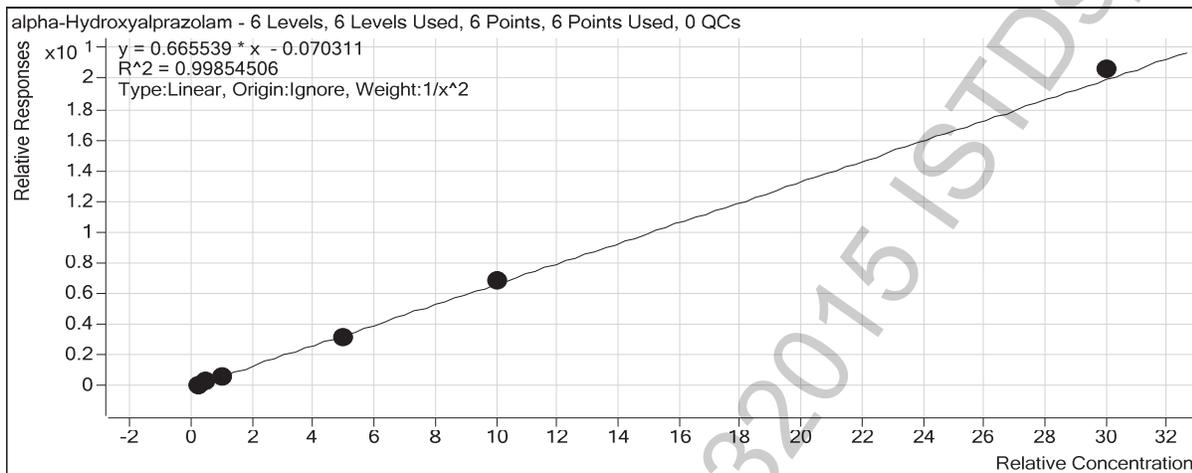| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	25.1	100.3
50 ngmL	5	☑	50	51.2	102.4
100 ngmL	6	☑	100	97.9	97.9
500 ngmL	7	☑	500	492.4	98.5
1000 ngmL	8	☑	1000	1011.1	101.1
3000 ngmL	9	☑	3000	2997.3	99.9

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

alpha-Hydroxyalprazolam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = 0.665539 * x - 0.070311$
$R^2 = 0.99854506$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

(Relative Responses vs Relative Concentration — $\times 10^1$)

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	25.3	101.0
50 ngmL	5	☑	50	49.8	99.6
100 ngmL	6	☑	100	97.2	97.2
500 ngmL	7	☑	500	478.0	95.6
1000 ngmL	8	☑	1000	1031.7	103.2
3000 ngmL	9	☑	3000	3102.6	103.4

ISP Forensics
Calibration Curve Report
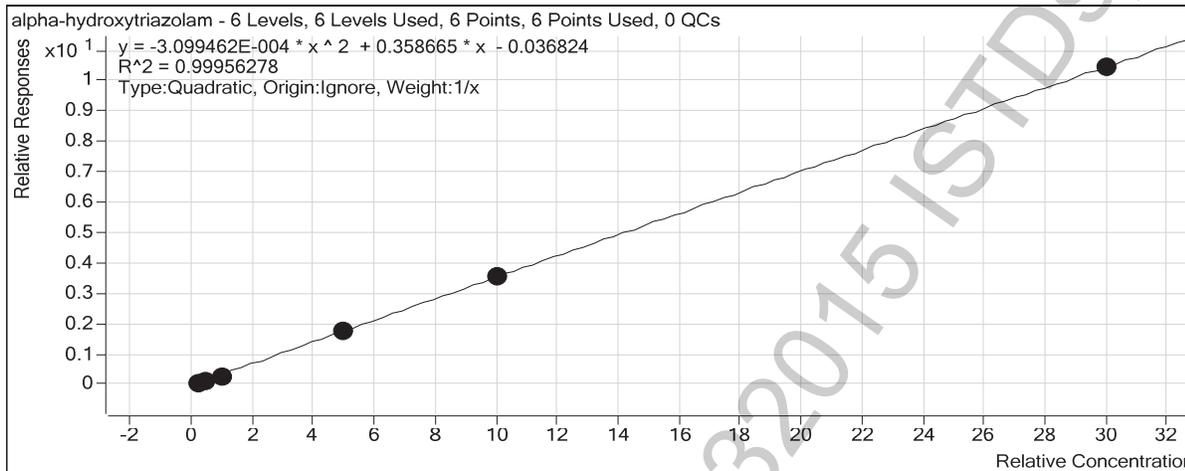
Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

alpha-hydroxytriazolam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -3.099462E\text{-}004 * x^2 + 0.358665 * x - 0.036824$
$R^2 = 0.99956278$
Type:Quadratic, Origin:Ignore, Weight:1/x

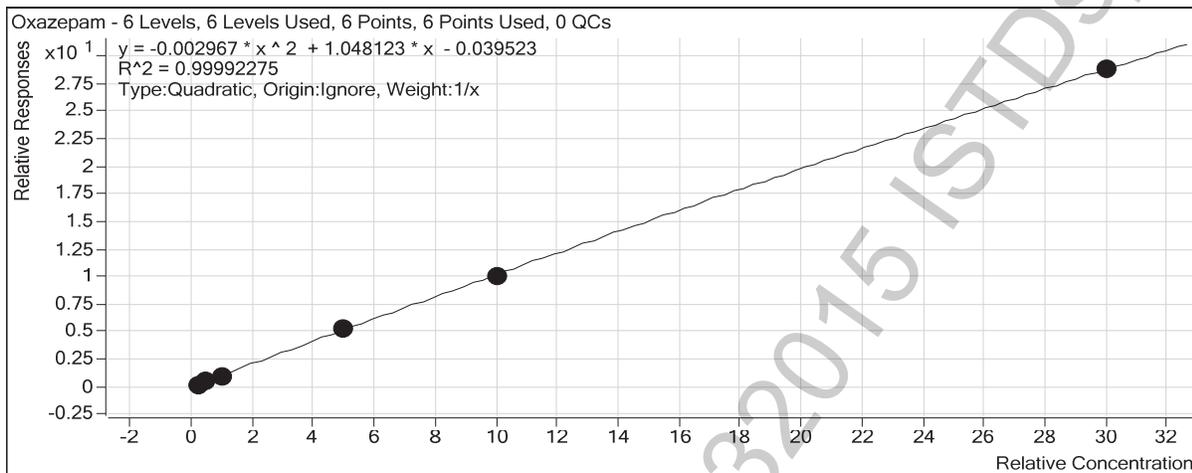| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	28.1	112.4
50 ngmL	5	☑	50	48.2	96.5
100 ngmL	6	☑	100	89.2	89.2
500 ngmL	7	☑	500	507.9	101.6
1000 ngmL	8	☑	1000	1003.9	100.4
3000 ngmL	9	☑	3000	2997.7	99.9

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Oxazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.002967 * x \wedge 2 + 1.048123 * x - 0.039523$
$R\wedge 2 = 0.99992275$
Type:Quadratic, Origin:Ignore, Weight:1/x

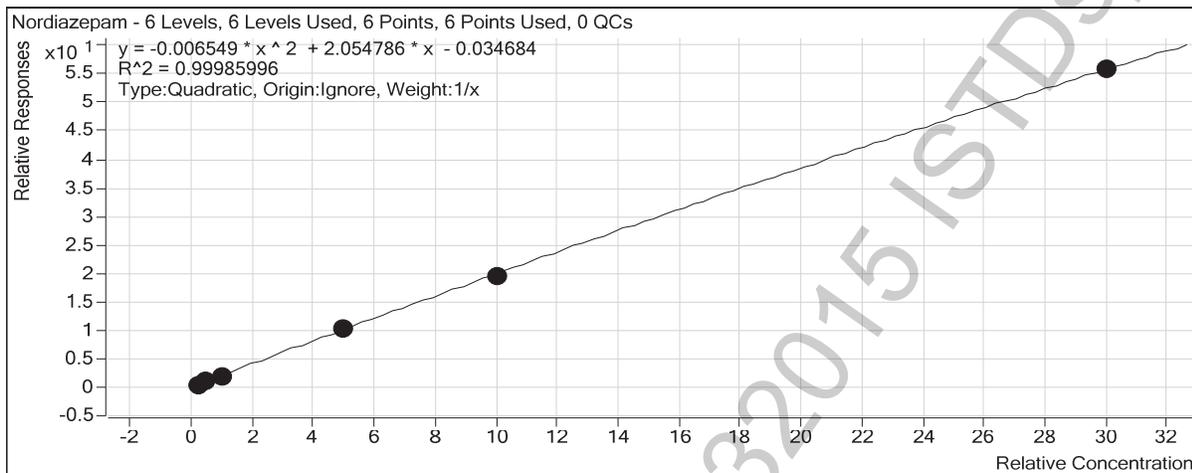| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	25.2	101.0
50 ngmL	5	☑	50	50.8	101.5
100 ngmL	6	☑	100	96.5	96.5
500 ngmL	7	☑	500	507.8	101.6
1000 ngmL	8	☑	1000	993.7	99.4
3000 ngmL	9	☑	3000	3001.0	100.0

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Nordiazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.006549 * x \wedge 2 + 2.054786 * x - 0.034684$

R^2 = 0.99985996

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

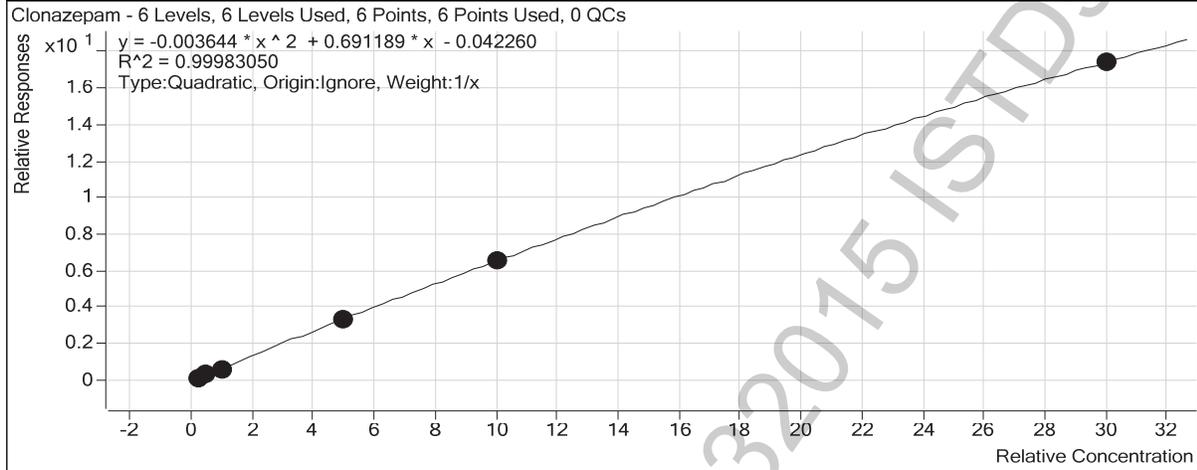| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	24.3	97.2
50 ngmL	5	☑	50	51.3	102.6
100 ngmL	6	☑	100	99.3	99.3
500 ngmL	7	☑	500	511.6	102.3
1000 ngmL	8	☑	1000	985.3	98.5
3000 ngmL	9	☑	3000	3003.4	100.1

ISP Forensics
Calibration Curve Report
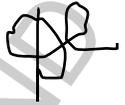
Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

Target Compound   Clonazepam
Internal Standard   Clonazepam-D4 ISTD

Clonazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.003644 * x \wedge 2 + 0.691189 * x - 0.042260$
$R^2 = 0.99983050$
Type:Quadratic, Origin:Ignore, Weight:1/x

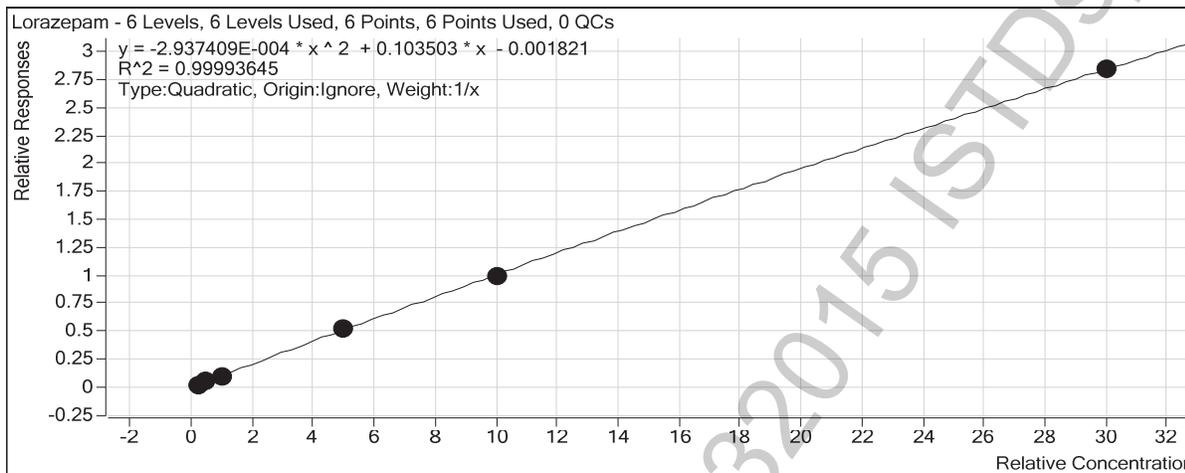| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	25.9	103.4
50 ngmL	5	☑	50	51.3	102.6
100 ngmL	6	☑	100	93.2	93.2
500 ngmL	7	☑	500	501.9	100.4
1000 ngmL	8	☑	1000	1004.9	100.5
3000 ngmL	9	☑	3000	2997.7	99.9

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Lorazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -2.937409E{-}004 * x \wedge 2 + 0.103503 * x - 0.001821$
$R^2 = 0.99993645$
Type:Quadratic, Origin:Ignore, Weight:1/x

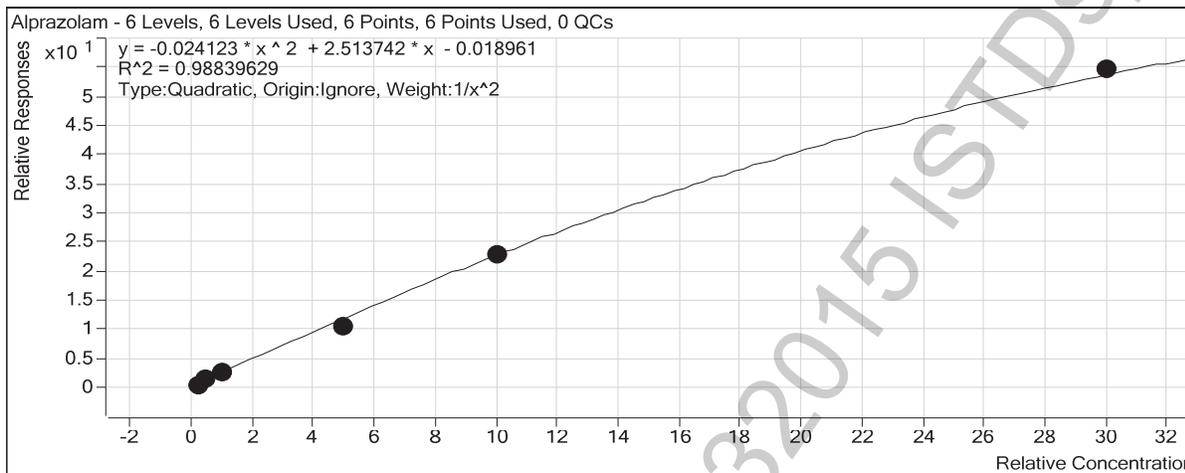| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	25.7	102.6
50 ngmL	5	☑	50	50.0	100.0
100 ngmL	6	☑	100	96.4	96.4
500 ngmL	7	☑	500	506.3	101.3
1000 ngmL	8	☑	1000	996.3	99.6
3000 ngmL	9	☑	3000	3000.3	100.0

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin
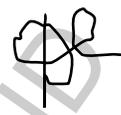
Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Alprazolam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.024123 * x \wedge 2 + 2.513742 * x - 0.018961$
$R \wedge 2 = 0.98839629$
Type:Quadratic, Origin:Ignore, Weight:1/x^2

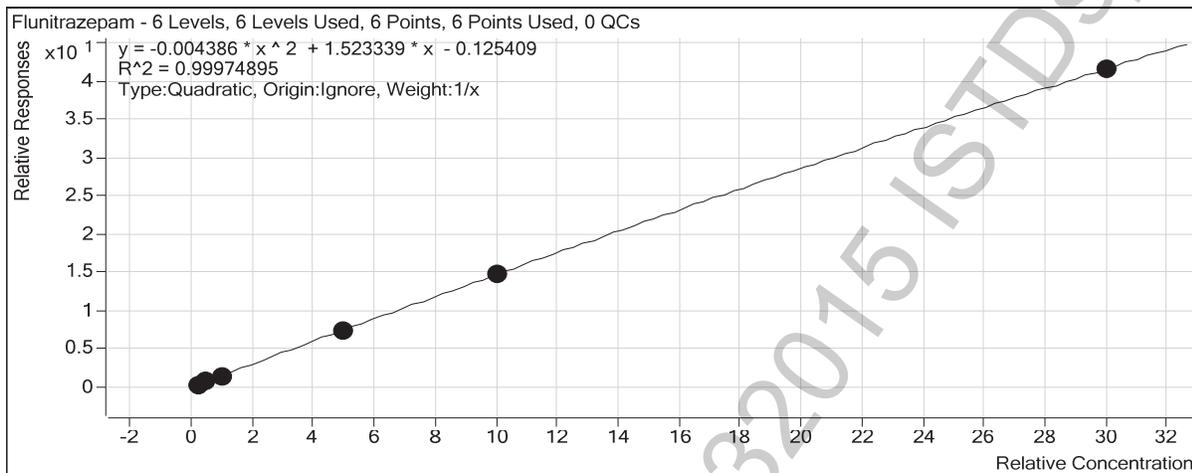| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	23.5	94.2
50 ngmL	5	☑	50	55.1	110.2
100 ngmL	6	☑	100	105.4	105.4
500 ngmL	7	☑	500	433.0	86.6
1000 ngmL	8	☑	1000	1017.2	101.7
3000 ngmL	9	☑	3000	3092.2	103.1

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Flunitrazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.004386 * x ^ 2 + 1.523339 * x - 0.125409$
$R^2 = 0.99974895$
Type:Quadratic, Origin:Ignore, Weight:1/x

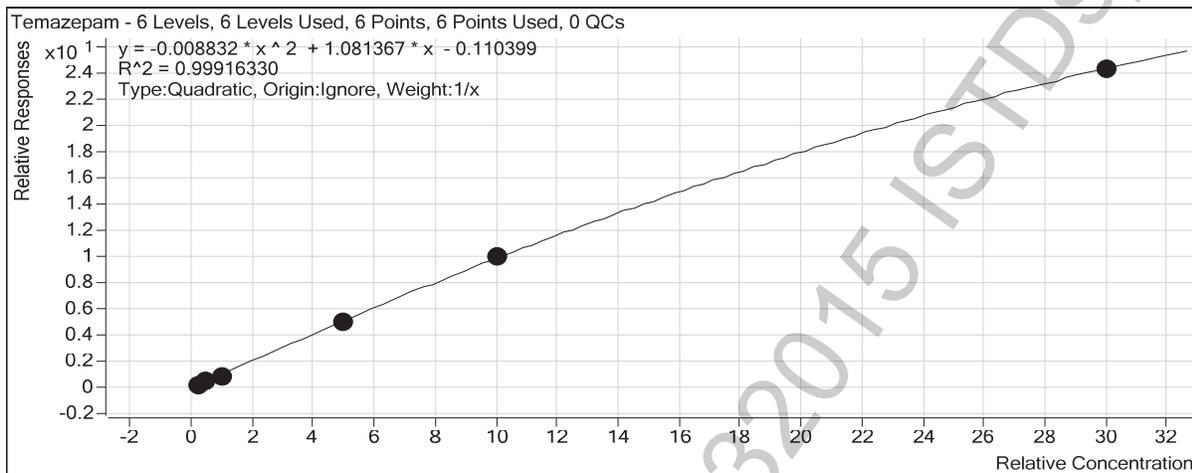| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	26.9	107.4
50 ngmL	5	☑	50	50.0	100.1
100 ngmL	6	☑	100	91.7	91.7
500 ngmL	7	☑	500	499.8	100.0
1000 ngmL	8	☑	1000	1010.0	101.0
3000 ngmL	9	☑	3000	2996.5	99.9

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

Target Compound   Temazepam
Internal Standard   *Temazepam-D5 ISTD*

Temazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.008832 * x \wedge 2 + 1.081367 * x - 0.110399$
$R\wedge 2 = 0.99916330$
Type:Quadratic, Origin:Ignore, Weight:1/x

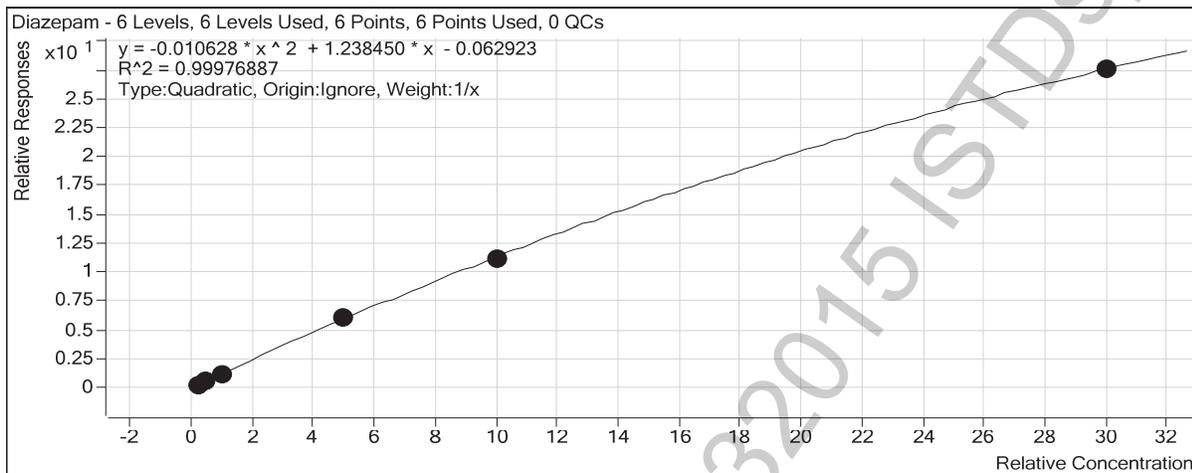| Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	28.4	113.7
50 ngmL	5	☑	50	48.7	97.3
100 ngmL	6	☑	100	87.8	87.8
500 ngmL	7	☑	500	496.8	99.4
1000 ngmL	8	☑	1000	1021.6	102.2
3000 ngmL	9	☑	3000	2990.0	99.7

ISP Forensics
Calibration Curve Report

Batch Data Path   C:\MassHunter\Data\BZ\BZ-B-040314\QuantResults\BZ-B-040315.batch.bin

Last Calib Update   4/4/2015 11:11 AM   **Analyst Name**   ISP TOX

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

Diazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs

$y = -0.010628 * x \wedge 2 + 1.238450 * x - 0.062923$
$R\wedge2 = 0.99976887$
Type:Quadratic, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
25 ngmL	4	☑	25	25.8	103.1
50 ngmL	5	☑	50	50.9	101.8
100 ngmL	6	☑	100	93.6	93.6
500 ngmL	7	☑	500	510.1	102.0
1000 ngmL	8	☑	1000	994.1	99.4
3000 ngmL	9	☑	3000	3000.6	100.0