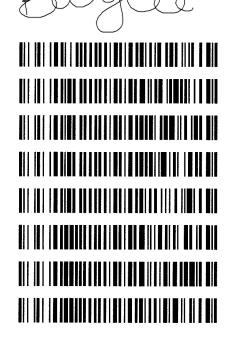
Worklist: 1459

LAB CASE	<u>ITEM</u>	TASK ID	DESCRIPTION
C2016-2304	1	73585	AM 13 Blood LCMS-QQQ Benz
M2016-3640	1	73586	AM 13 Blood LCMS-QQQ Benz
M2016-3995	1	73587	AM 13 Blood LCMS-QQQ Benz
M2016-4477	1	73580	AM 13 Blood LCMS-QQQ Benz
M2016-4741	1	73581	AM 13 Blood LCMS-QQQ Benz
P2016-1858	1	73582	AM 13 Blood LCMS-QQQ Benz
P2016-1877	1	73583	AM 13 Blood LCMS-QQQ Benz
P2016-2624	1	73584	AM 13 Blood LCMS-QQQ Benz



£

Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

1/5/2017 10:36 AM

Analysis Time 1/5/2017 10:36 AM **Report Time** 1/5/2017 10:37 AM

Analyst Name ISP Tox Reporter Name ISP Tox Batch State Processed

Analysis Info

Samples Report Benzo.xlsx

Last Calib Update

Acq Time 2017-01-04 14:11

Data Fileb Negative Blood Control amn.dSample NameNegative Blood Control

Sample Type Sample Dilution 1

Sample Name Acq Method

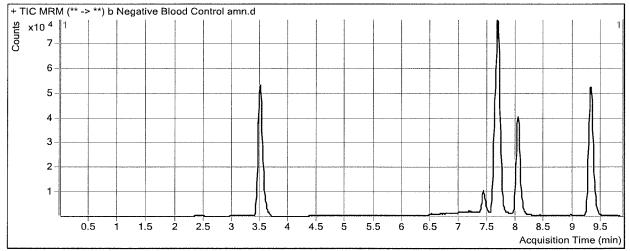
Benzos_Z_Drugs_ACN_FA_ISP 2016.m

 Position
 P2-A8

 Inj Vol
 -1

Sample Info Comment Negative blood lot B0130 AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Printed at: 10:38 AM on: 1/5/2017



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

 Analysis Time
 1/5/2017 10:36 AM
 Analyst Name
 ISP Tox

 Report Time
 1/5/2017 10:37 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/5/2017 10:36 AM
 Batch State
 Processed

Analysis Info

Acq Time 2017-01-04 14:26 Data File b Positive Blood Control amn.d

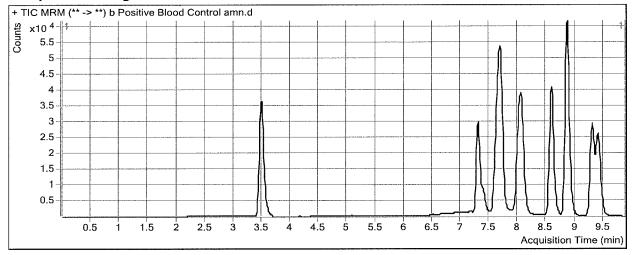
Sample Type Sample Sample Name Positive Blood Control

 Dilution
 1
 Acq Method
 Benzos_Z_Drugs_ACN_FA_ISP 2016.m

 Position
 P2-A9
 Sample Info
 100ng/mL Lot 101717 in neg blood B0130

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	7.301	93133	81260	1.1461	103.1303
Oxazepam	Oxazepam D5 ISTD	7.695	100682	110006	0.9152	90.7269
Clonazepam	Clonazepam-D4 ISTD	8.036	73637	81260	0.9062	100.9372
Lorazepam	Oxazepam D5 ISTD alphahydroxyalprazolam-	8.059 D5	23031	110006	0.2094	93.8757
Alprazolam	ISTD	8.080	31522	16342	1.9289	81.8602
Flunitrazepam	Clonazepam-D4 ISTD	8.571	159062	81260	1.9574	202.1291
Temazepam	Oxazepam D5 ISTD	8.849	258637	110006	2.3511	140.6025
Diazepam	Diazepam-D5 ISTD	9.402	97582	82946	1.1765	112.1982

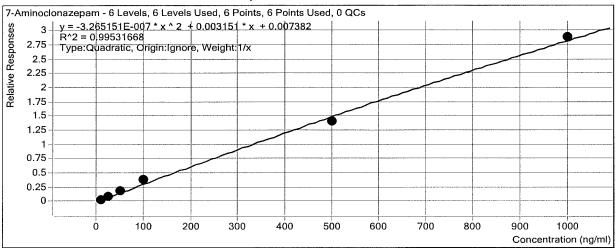
Samples Report Benzo.xlsx Printed at: 10:38 AM on: 1/5/2017



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target Compound7-AminoclonazepamInternal Standard7-Aminoflunitrazepam-D7 ISTD



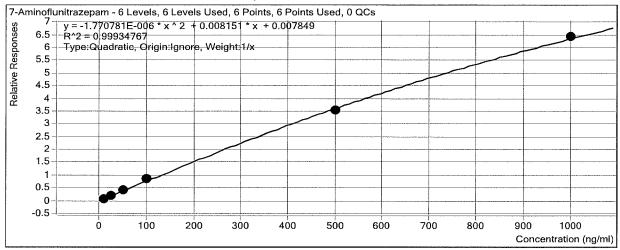
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	8.7	86.8
25 ngmL	4	\square	25	23.3	93.3
50 ngmL	5	\square	50	53.9	107.8
100 ngmL	6	\square	100	117.6	117.6
500 ngmL	7	\square	500	464.0	92.8
1000 ngmL	8	\square	1000	1018.1	101.8



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target Compound7-AminoflunitrazepamInternal Standard7-Aminoflunitrazepam-D7 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	9.6	96.0
25 ngmL	4	\square	25	24.6	98.5
50 ngmL	5	\square	50	50.5	101.0
100 ngmL	6	\square	100	106.5	106.5
500 ngmL	7	☑	500	486.6	97.3
1000 ngmL	8	\square	1000	1008.2	100.8



Batch Data Path

D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update

1/5/2017 10:02 AM

Analyst Name

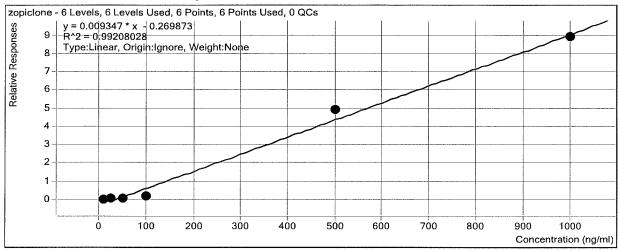
ISP TOX

Target Compound

zopiclone

Internal Standard

Oxazepam D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	31.8	318.1
25 ngmL	4	☑	25	35.0	140.1 ~
50 ngmL	5	\square	50	36.9	73.9 —
100 ngmL	6	\square	100	50.3	50.3
500 ngmL	7	Ø	500	551.6	110.3
1000 ngmL	8	Ø	1000	979.4	97.9

This compound Not evaluated in this run

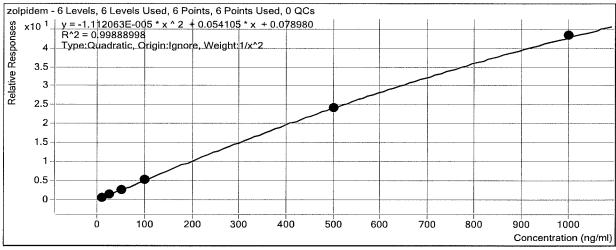
Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target Compound

Internal Standard Oxazepam D5 ISTD

zolpidem



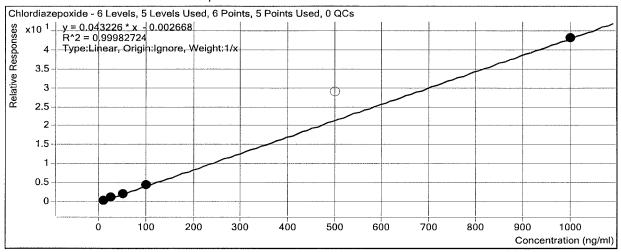
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	9.9	98.6
25 ngmL	4	\square	25	26.2	105.0
50 ngmL	5	\square	50	48.9	97.9
100 ngmL	6	\square	100	98.9	98.9
500 ngmL	7	\square	500	494.8	99.0
1000 ngmL	8	\square	1000	1008.9	100.9



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target CompoundChlordiazepoxideInternal StandardNordiazepam-D5 ISTD



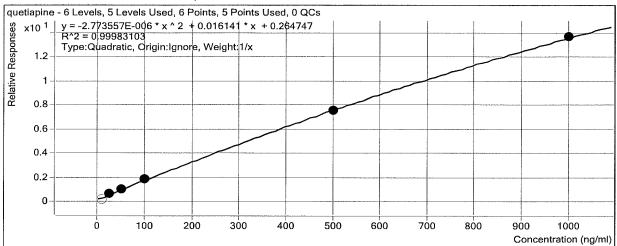
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	☑	10	9.9	99.3
25 ngmL	4	\square	25	24.3	97.1
50 ngmL	5	\square	50	50.0	100.0
100 ngmL	6	\square	100	103.9	103.9
500 ngmL	7		500	674.4	134.9
1000 ngmL	8	\square	1000	996.9	99.7



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target CompoundquetiapineInternal StandardOxazepam D5 ISTD



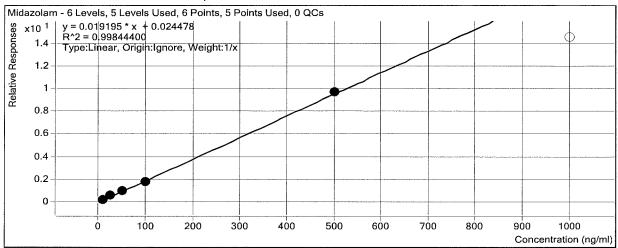
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2		10	0.0	0.0
25 ngmL	4	\square	25	25.0	99.8
50 ngmL	5	Ø	50	48.7	97.4
100 ngmL	6	\square	100	103.4	103.4
500 ngmL	7	\square	500	496.0	99.2
1000 ngmL	8	☑	1000	1002.1	100.2

Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target Compound Midazolam

Internal Standard Clonazepam-D4 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.4	103.5
25 ngmL	4	☑	25	26.5	105.8
50 ngmL	5	\square	50	48.4	96.8
100 ngmL	6	\square	100	92.4	92.4
500 ngmL	7	\square	500	507.4	101.5
1000 ngmL	8		1000	757.2	75.7



Batch Data Path

D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update

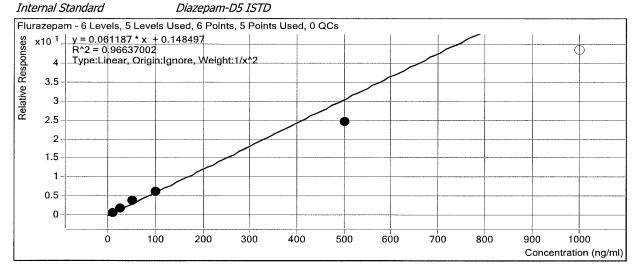
1/5/2017 10:02 AM

Analyst Name

ISP TOX

Target Compound

Flurazepam



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	9.3	92.7
25 ngmL	4	\square	25	27.6	110.4
50 ngmL	5	☑	50	59.0	118.1
100 ngmL	6	\square	100	98.7	98.7
500 ngmL	7	\square	500	400.1	80.0
1000 ngmL	8		1000	708.9	70.9

5/23/17 This compound was not evaluated in this run





Batch Data Path

D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update

1/5/2017 10:02 AM

Analyst Name

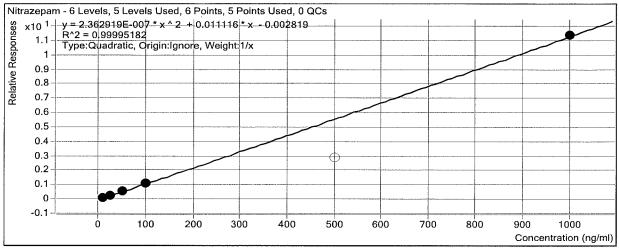
ISP TOX

Target Compound

Nitrazepam

Internal Standard

Clonazepam-D4 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	☑	10	10.3	103.2
25 ngmL	4	\square	25	24.1	96.3
50 ngmL	5	\square	50	49.9	99.8
100 ngmL	6	\square	100	100.8	100.8
500 ngmL	7		500	256.3	51.3
1000 ngmL	8	\square	1000	999.9	100.0



Batch Data Path

D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update

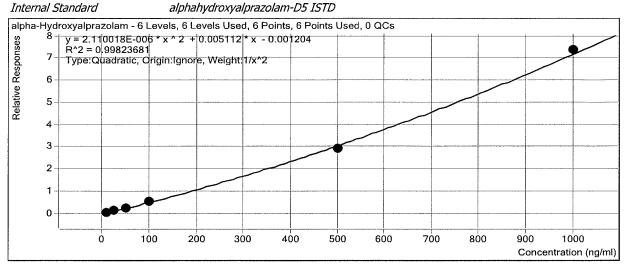
1/5/2017 10:02 AM

Analyst Name

ISP TOX

Target Compound

alpha-Hydroxyalprazolam alphahydroxyalprazolam-D5 ISTD



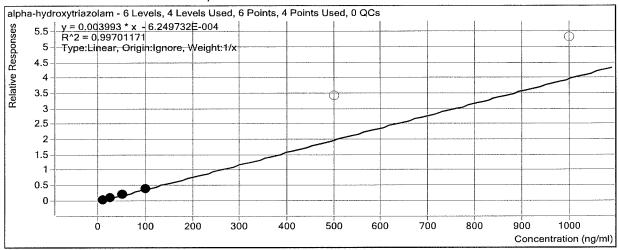
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	9.8	98.2
25 ngmL	4	\square	25	26.4	105.5
50 ngmL	5	\square	50	48.5	97.1
100 ngmL	6	☑	100	102.1	102.1
500 ngmL	7	☑	500	479.5	95.9
1000 ngmL	8	☑	1000	1014.6	101.5



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target Compoundalpha-hydroxytriazolamInternal StandardNordiazepam-D5 ISTD



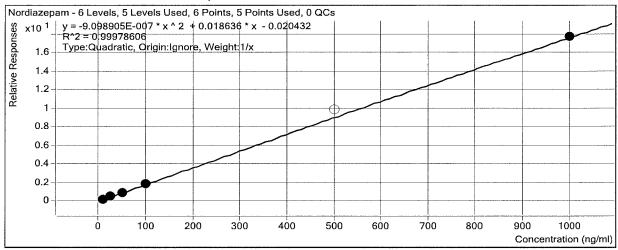
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.7	107.3
25 ngmL	4	\square	25	22.8	91.1
50 ngmL	5	\square	50	50.1	100.1
100 ngmL	6	☑	100	101.4	101.4
500 ngmL	7		500	854.4	170.9
1000 ngmL	8		1000	1329.6	133.0



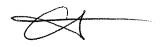
Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target CompoundNordiazepamInternal StandardNordiazepam-D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.5	104.5
25 ngmL	4	☑	25	24.3	97.4
50 ngmL	5	\square	50	47.8	95.5
100 ngmL	6	\square	100	102.6	102.6
500 ngmL	7		500	542.1	108.4
1000 ngmL	8	\square	1000	999.9	100.0



Batch Data Path

D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update

1/5/2017 10:02 AM

Analyst Name

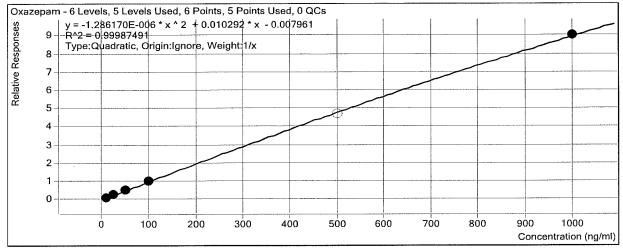
ISP TOX

Target Compound

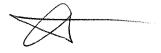
Oxazepam

Internal Standard

Oxazepam D5 ISTD



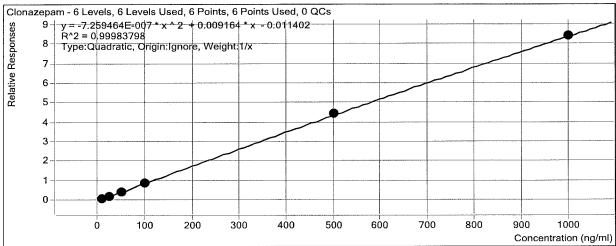
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.4	104.2
25 ngmL	4	\square	25	24.1	96.3
50 ngmL	5	\square	50	48.9	97.8
100 ngmL	6	\square	100	101.7	101.7
500 ngmL	7		500	490.7	98.1
1000 ngmL	8	\square	1000	999.9	100.0



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target CompoundClonazepamInternal StandardClonazepam-D4 ISTD



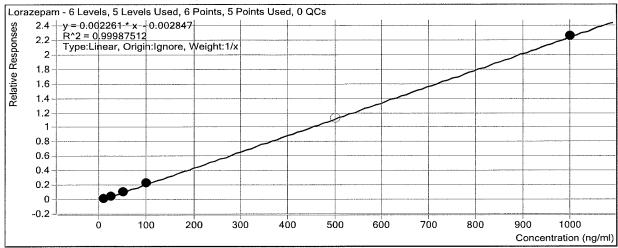
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	☑	10	10.7	107.4
25 ngmL	4	\square	25	23.9	95.5
50 ngmL	5	\square	50	48.7	97.5
100 ngmL	6	\square	100	98.8	98.8
500 ngmL	7	\square	500	505.7	101.1
1000 ngmL	8	\square	1000	997.1	99.7



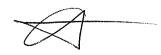
Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target CompoundLorazepamInternal StandardOxazepam D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.5	104.8
25 ngmL	4	\square	25	24.0	96.0
50 ngmL	5	\square	50	48.7	97.3
100 ngmL	6	\square	100	101.8	101.8
500 ngmL	7		500	503.0	100.6
1000 ngmL	8	\square	1000	1000.1	100.0

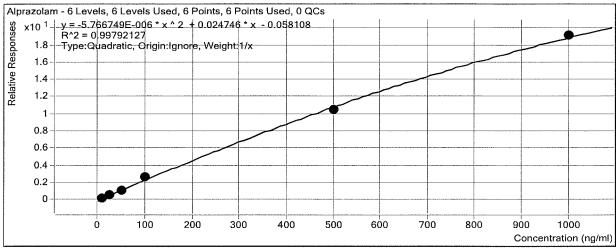


Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target Compound Alprazolam

Internal Standard alphahydroxyalprazolam-D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.3	103.3
25 ngmL	4	Ø	25	22.9	91.4
50 ngmL	5	\square	50	47.8	95.6
100 ngmL	6	\square	100	112.3	112.3
500 ngmL	7	\square	500	482.6	96.5
1000 ngmL	8	\square	1000	1010.7	101.1



Batch Data Path

D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update

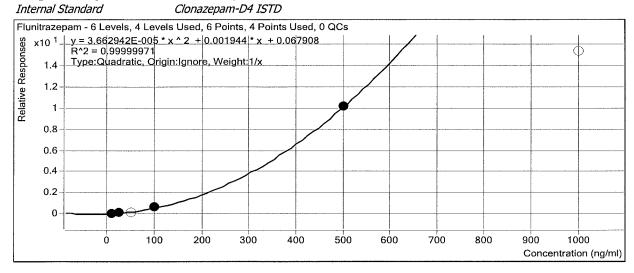
1/5/2017 10:02 AM

Analyst Name

ISP TOX

Target Compound

Flunitrazepam



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.1	101.2
25 ngmL	4	\square	25	24.7	98.9
50 ngmL	5		50	35.6	71.2
100 ngmL	6	\square	100	100.1	100.1
500 ngmL	7	Ø	500	500.0	100.0
1000 namL	8		1000	618.6	61.9

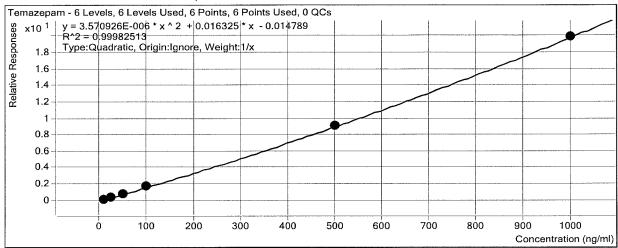
Did not cualuate this compound in this run

M

Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update 1/5/2017 10:02 AM Analyst Name ISP TOX

Target CompoundTemazepamInternal StandardOxazepam D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.7	106.6
25 ngmL	4	\square	25	24.5	98.2
50 ngmL	5	Ø	50	46.5	93.0
100 ngmL	6	\square	100	101.8	101.8
500 ngmL	7	Ø	500	502.4	100.5
1000 ngmL	8	\square	1000	999.0	99.9



Batch Data Path

D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

Last Calib Update

1/5/2017 10:02 AM

Analyst Name

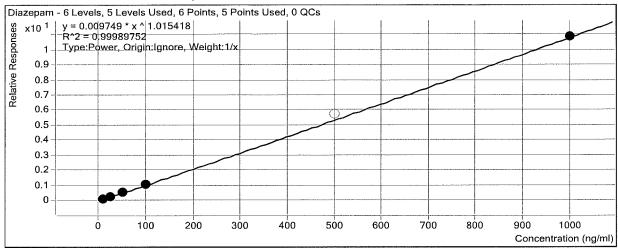
ISP TOX

Target Compound

Diazepam

Internal Standard

Diazepam-D5 ISTD



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
10 ngmL	2	\square	10	10.3	103.4
25 ngmL	4	図	25	23.8	95.3
50 ngmL	5	\square	50	49.4	98.7
100 ngmL	6	\square	100	102.0	102.0
500 ngmL	7		500	531.2	106.2
1000 ngmL	8	☑	1000	999.5	99.9



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

 Analysis Time
 1/5/2017 10:36 AM
 Analyst Name
 ISP Tox

 Report Time
 1/5/2017 10:37 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/5/2017 10:36 AM
 Batch State
 Processed

Analysis Info

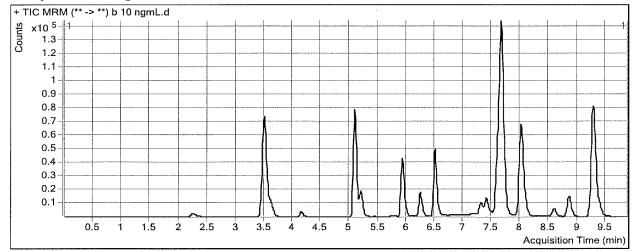
Acq Time2017-01-04 12:28Data Fileb 10 ngmL.dSample TypeCalibrationSample Name10 ngmL

 Dilution
 1
 Acq Method
 Benzos_Z_Drugs_ACN_FA_ISP 2016.m

 Position
 P2-A2
 Sample Info
 ppd -12/22/16- Unextracted

 Inj Vol
 -1
 Comment
 AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Resu	lte
------	-----

Compound	ISTD Compound 7-Aminoflunitrazepam-D7	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	ISTD 7-Aminoflunitrazepam-D7	2.250	11866	341759	0.0347	8.6835
7-Aminoflunitrazepam	ISTD	3.620	29362	341759	0.0859	9.5971
zopiclone	Oxazepam D5 ISTD	4.149	10476	381662	0.0274	31.8087
zolpidem	Oxazepam D5 ISTD	5.078	233274	381662	0.6112	9.8569
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.198	54232	127181	0.4264	9.9265
quetiapine	Oxazepam D5 ISTD	5.922	97337	381662	0.2550	0.0000
Midazolam	Clonazepam-D4 ISTD	6.243	54284	243226	0.2232	10.3521
Flurazepam	Diazepam-D5 ISTD	6.496	169665	236980	0.7159	9.2740
Nitrazepam	Clonazepam-D4 ISTD alphahydroxyalprazolam-D5	7.309 5	27226	243226	0.1119	10.3209
alpha-Hydroxyalprazolam	ISTD	7.439	1919	38984	0.0492	9.8240
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.497	5371	127181	0.0422	10.7344
Nordiazepam	Nordiazepam-D5 ISTD	7.689	22160	127181	0.1742	10.4516
Oxazepam	Oxazepam D5 ISTD	7.704	37822	381662	0.0991	10.4154
Clonazepam	Clonazepam-D4 ISTD	8.036	21134	243226	0.0869	10.7352
Lorazepam	Oxazepam D5 ISTD alphahydroxyalprazolam-D5	8.059 5	7957	381662	0.0208	10.4830
Alprazolam	ISTD	8.071	7673	38984	0.1968	10.3268
Flunitrazepam	Clonazepam-D4 ISTD	8.571	22217	243226	0.0913	10.1224
Temazepam	Oxazepam D5 ISTD	8.840	60922	381662	0.1596	10.6590
Diazepam	Diazepam-D5 ISTD	9.385	24769	236980	0.1045	10.3412

Printed at: 10:38 AM on: 1/5/2017

Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

 Analysis Time
 1/5/2017 10:36 AM
 Analyst Name
 ISP Tox

 Report Time
 1/5/2017 10:37 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/5/2017 10:36 AM
 Batch State
 Processed

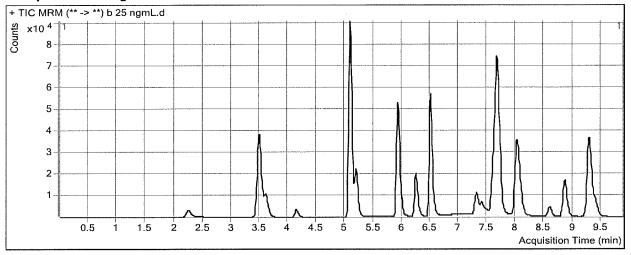
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 Sample Type
 Calibration
 Sample Name
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Dilution1Acq MethodBenzos_Z_Drugs_ACN_FA_ISP 2016.mPositionP2-A3Sample Infoppd 12/22/16 Unextracted / - 4/ - / /Inj Vol-1CommentAM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results						
Compound	ISTD Compound 7-Aminoflunitrazepam-D7	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	ISTD 7-Aminoflunitrazepam-D7	2.250	14248	176590	0.0807	23.3191
7-Aminoflunitrazepam	ISTD	3.612	36627	176590	0.2074	24.6137
zopiclone	Oxazepam D5 ISTD	4.140	10340	180104	0.0574	35.0141
zolpidem	Oxazepam D5 ISTD	5.087	268523	180104	1.4909	26.2381
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.198	63915	61036	1.0472	24.2874
quetiapine	Oxazepam D5 ISTD	5.931	119937	180104	0.6659	24.9620
Midazolam	Clonazepam-D4 ISTD	6.243	62936	118241	0.5323	26.4549
Flurazepam	Diazepam-D5 ISTD	6.496	194239	105704	1.8376	27.6051
Nitrazepam	Clonazepam-D4 ISTD alphahydroxyalprazolam-D!	7.309 5	31312	118241	0.2648	24.0633
alpha-Hydroxyalprazolam	ISTD	7.439	2051	15184	0.1351	26.3733
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.488	5512	61036	0.0903	22.7748
Nordiazepam	Nordiazepam-D5 ISTD	7.697	26415	61036	0.4328	24.3483
Oxazepam	Oxazepam D5 ISTD	7.704	43069	180104	0.2391	24.0804
Clonazepam	Clonazepam-D4 ISTD	8.044	24481	118241	0.2070	23.8823
Lorazepam	Oxazepam D5 ISTD alphahydroxyalprazolam-D!	8.068 5	9263	180104	0.0514	24.0105
Alprazolam	ISTD	8.071	7661	1518 4	0.5045	22.8579
Flunitrazepam	Clonazepam-D4 ISTD	8.580	16364	118241	0.1384	24.7302
Temazepam	Oxazepam D5 ISTD	8.849	69877	180104	0.3880	24.5406
Diazepam	Diazepam-D5 ISTD	9.394	25789	105704	0.2440	23.8304

Samples Report Benzo.xlsx Printed at: 10:38 AM on: 1/5/2017



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

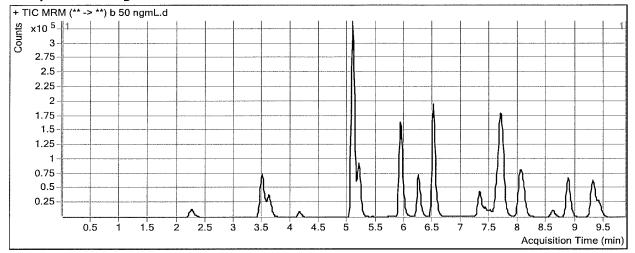
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Analysis Info

Acq Time2017-01-04 12:58Data Fileb 50 ngmL.dSample TypeCalibrationSample Name50 ngmL

Dilution1Acq MethodBenzos_Z_Drugs_ACN_FA_ISP 2016.mPositionP2-A4Sample Infoppd 12/22/16- Unextracted 1- 4-1Inj Vol-1CommentAM 13 Benzo and Z by LCQQQ

Sample Chromatogram



R	PC	. 1	lts

Compound	ISTD Compound 7-Aminoflunitrazepam-D7	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	ISTD 7-Aminoflunitrazepam-D7	2.258	60317	342236	0.1762	53.8879
7-Aminoflunitrazepam	ISTD	3.620	142028	342236	0.4150	50.5026
zopiclone	Oxazepam D5 ISTD	4.140	28547	379094	0.0753	36.9283
zolpidem	Oxazepam D5 ISTD	5.078	1023713	379094	2.7004	48.9434
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.198	277742	128623	2.1593	50.0167
quetiapine	Oxazepam D5 ISTD	5.931	395787	379094	1.0440	48.6870
Midazolam	Clonazepam-D4 ISTD	6.243	233049	244391	0.9536	48.4051
Flurazepam	Diazepam-D5 ISTD	6.505	694584	184668	3.7613	59.0445
Nitrazepam	Clonazepam-D4 ISTD alphahydroxyalprazolam-D5	7.317	134953	244391	0.5522	49.8763
alpha-Hydroxyalprazolam	ISTD	7.447	8790	34899	0.2519	48.5339
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.497	25631	128623	0.1993	50.0658
Nordiazepam	Nordiazepam-D5 ISTD	7.706	111583	128623	0.8675	47.7595
Oxazepam	Oxazepam D5 ISTD	7.712	186670	379094	0.4924	48.9148
Clonazepam	Clonazepam-D4 ISTD	8.053	105942	244391	0.4335	48.7370
Lorazepam	Oxazepam D5 ISTD alphahydroxyalprazolam-D5	8.076	40628	379094	0.1072	48.6694
Alprazolam	ISTD	8.080	38781	34899	1.1112	47.7863
Flunitrazepam	Clonazepam-D4 ISTD	8.588	44847	244391	0.1835	35.5908
Temazepam	Oxazepam D5 ISTD	8.857	285242	379094	0.7524	46.5236
Diazepam	Diazepam-D5 ISTD	9.402	94375	184668	0.5110	49.3598

Printed at: 10:38 AM on: 1/5/2017



Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

 Analysis Time
 1/5/2017 10:36 AM
 Analyst Name
 ISP Tox

 Report Time
 1/5/2017 10:37 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/5/2017 10:36 AM
 Batch State
 Processed

Analysis Info

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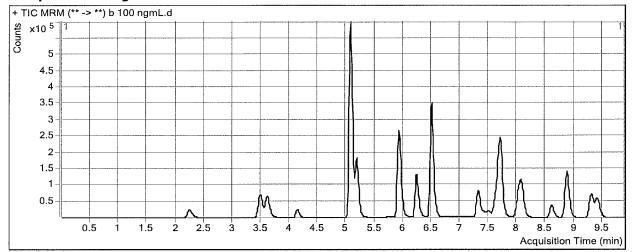
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 Calibration
 Sample Name
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 Dilution
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 Acq Method
 Benzos_Z_Drugs_ACN_FA_ISP 2016.m

 Position
 P2-A5
 Sample Info
 ppd 12/22/165_Unextracted
 I - 4 - 17

 Inj Vol
 -1
 Comment
 AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Resu	lts
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ISTD Compound 7-Aminoflunitrazepam-D7	RT	Response	ISTD Resp	Resp Ratio	Final Conc
ISTD	2.250	115997	310683	0.3734	117.5728
•			D. 1.0.0.D	0.0550	105 1050
ISID	3.612	265900	310683	0.8559	106.4963
Oxazepam D5 ISTD	4.132	70129	350270	0.2002	50.2918
Oxazepam D5 ISTD	5.070	1863105	350270	5.3191	98.8592
Nordiazepam-D5 ISTD	5.190	548408	122226	4.4868	103.8611
Oxazepam D5 ISTD	5.922	666819	350270	1.9037	103.3774
Clonazepam-D4 ISTD	6.243	422969	235324	1.7974	92.3653
Diazepam-D5 ISTD	6.496	1285580	207695	6.1898	98.7342
Clonazepam-D4 ISTD alphahydroxyalprazolam-D5	7.309 5	263559	235324	1.1200	100.7901
ISTD	7.447	16779	30912	0.5428	102.1145
Nordiazepam-D5 ISTD	7.497	49421	122226	0.4043	101.4250
Nordiazepam-D5 ISTD	7.706	230001	122226	1.8818	102.5873
Oxazepam D5 ISTD	7.712	359221	350270	1.0256	101.7087
Clonazepam-D4 ISTD	8.053	208701	235324	0.8869	98.7955
Oxazepam D5 ISTD alphahydroxyalprazolam-D5	8.076 5	79595	350270	0.2272	101.7844
ISTD	8.080	81830	30912	2.6472	112.2609
Clonazepam-D4 ISTD	8.588	148121	235324	0.6294	100.0867
Oxazepam D5 ISTD	8.857	590006	350270	1.6844	101.8202
Diazepam-D5 ISTD	9.402	221749	207695	1.0677	101.9738
	7-Aminoflunitrazepam-D7 ISTD 7-Aminoflunitrazepam-D7 ISTD Oxazepam D5 ISTD Oxazepam D5 ISTD Nordiazepam-D5 ISTD Clonazepam-D4 ISTD Clonazepam-D4 ISTD alphahydroxyalprazolam-D5 ISTD Nordiazepam-D5 ISTD Clonazepam-D5 ISTD Clonazepam-D5 ISTD Nordiazepam-D5 ISTD Nordiazepam-D5 ISTD Oxazepam D5 ISTD Oxazepam D5 ISTD Clonazepam-D4 ISTD Clonazepam-D5 ISTD Clonazepam-D4 ISTD Oxazepam D5 ISTD Clonazepam-D5 ISTD Oxazepam D5 ISTD Oxazepam D5 ISTD Clonazepam-D5 ISTD Oxazepam D5 ISTD	7-Aminoflunitrazepam-D7 ISTD 2.250 7-Aminoflunitrazepam-D7 ISTD 3.612 Oxazepam D5 ISTD 4.132 Oxazepam D5 ISTD 5.070 Nordiazepam-D5 ISTD 5.190 Oxazepam D5 ISTD 5.922 Clonazepam-D4 ISTD 6.243 Diazepam-D5 ISTD 6.496 Clonazepam-D4 ISTD 7.309 alphahydroxyalprazolam-D5 ISTD 7.447 Nordiazepam-D5 ISTD 7.497 Nordiazepam-D5 ISTD 7.706 Oxazepam D5 ISTD 7.712 Clonazepam-D4 ISTD 8.053 Oxazepam D5 ISTD 8.076 alphahydroxyalprazolam-D5 ISTD 8.080 Clonazepam-D4 ISTD 8.588 Oxazepam D5 ISTD 8.588	7-Aminoflunitrazepam-D7 ISTD 2.250 115997 7-Aminoflunitrazepam-D7 ISTD 3.612 265900 Oxazepam D5 ISTD 4.132 70129 Oxazepam D5 ISTD 5.070 1863105 Nordiazepam-D5 ISTD 5.190 548408 Oxazepam D5 ISTD 5.922 666819 Clonazepam-D4 ISTD 6.243 422969 Diazepam-D5 ISTD 6.496 1285580 Clonazepam-D4 ISTD 7.309 263559 alphahydroxyalprazolam-D5 ISTD 7.447 16779 Nordiazepam-D5 ISTD 7.497 49421 Nordiazepam-D5 ISTD 7.706 230001 Oxazepam D5 ISTD 7.712 359221 Clonazepam-D4 ISTD 8.053 208701 Oxazepam D5 ISTD 8.076 79595 alphahydroxyalprazolam-D5 ISTD 8.080 81830 Clonazepam-D4 ISTD 8.588 148121 Oxazepam D5 ISTD 8.587 590006	7-Aminoflunitrazepam-D7 ISTD 2.250 115997 310683 7-Aminoflunitrazepam-D7 ISTD 3.612 265900 310683 Oxazepam D5 ISTD 4.132 70129 350270 Oxazepam D5 ISTD 5.070 1863105 350270 Nordiazepam-D5 ISTD 5.190 548408 122226 Oxazepam D5 ISTD 5.922 666819 350270 Clonazepam-D4 ISTD 6.243 422969 235324 Diazepam-D5 ISTD 6.496 1285580 207695 Clonazepam-D4 ISTD 7.309 263559 235324 alphahydroxyalprazolam-D5 ISTD 7.447 16779 30912 Nordiazepam-D5 ISTD 7.497 49421 122226 Nordiazepam-D5 ISTD 7.706 230001 122226 Oxazepam D5 ISTD 7.712 359221 350270 Clonazepam-D4 ISTD 8.053 208701 235324 Oxazepam D5 ISTD 8.053 208701 235324 Oxazepam D5 ISTD 8.080 81830 30912 Clonazepam-D4 ISTD 8.588 148121 235324 Oxazepam D5 ISTD 8.588 148121 235324 Oxazepam D5 ISTD 8.588 148121 235324	7-Aminoflunitrazepam-D7 ISTD 2.250 115997 310683 0.3734 7-Aminoflunitrazepam-D7 ISTD 3.612 265900 310683 0.8559 Oxazepam D5 ISTD 4.132 70129 350270 0.2002 Oxazepam D5 ISTD 5.070 1863105 350270 5.3191 Nordiazepam-D5 ISTD 5.190 548408 122226 4.4868 Oxazepam D5 ISTD 5.922 666819 350270 1.9037 Clonazepam-D4 ISTD 6.243 422969 235324 1.7974 Diazepam-D5 ISTD 6.496 1285580 207695 6.1898 Clonazepam-D4 ISTD 7.309 263559 235324 1.1200 alphahydroxyalprazolam-D5 ISTD 7.447 16779 30912 0.5428 Nordiazepam-D5 ISTD 7.497 49421 122226 0.4043 Nordiazepam-D5 ISTD 7.706 230001 122226 1.8818 Oxazepam D5 ISTD 7.712 359221 350270 1.0256 Clonazepam-D4 ISTD 8.053 208701 235324 0.8869 Oxazepam D5 ISTD 8.076 79595 350270 0.2272 alphahydroxyalprazolam-D5 ISTD 8.080 81830 30912 2.6472 Clonazepam-D4 ISTD 8.588 148121 235324 0.6294 Oxazepam D5 ISTD 8.588 148121 235324 0.6294 Oxazepam D5 ISTD 8.588 148121 235324 0.6294 Oxazepam D5 ISTD 8.588 148121 235324 0.6294

Samples Report Benzo.xlsx Printed at: 10:38 AM on: 1/5/2017



D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin **Batch Data Path**

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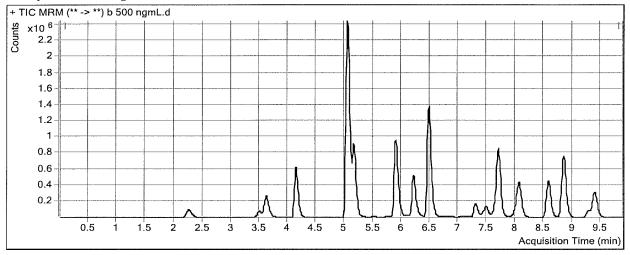
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Benzos_Z_Drugs_ACN_FA_ISP 2016.m Dilution **Acq Method** ppd 12/22/16 Unextracted 1-4-17 A. **Position** P2-A6 Sample Info

Comment AM 13 Benzo and Z by LCQQQ Inj Voi -1

Sample Chromatogram



Results	
Compound	
7. Amilia a damananana	

Compound	ISTD Compound 7-Aminoflunitrazepam-D7	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	ISTD 7-Aminoflunitrazepam-D7	2.267	479228	342462	1.3994	464.0459
7-Aminoflunitrazepam	ISTD	3.620	1217364	342462	3.5547	486.5553
zopiclone	Oxazepam D5 ISTD	4.140	1760666	360345	4.8861	551.6023
zolpidem	Oxazepam D5 ISTD	5.045	8693876	360345	24.1265	494.7798
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.163	2870992	98499	29.1475	674.3678
quetiapine	Oxazepam D5 ISTD	5.897	2734282	360345	7.5880	495.9690
Midazolam	Clonazepam-D4 ISTD	6.209	1830475	187467	9.7642	507. 4 227
Flurazepam	Diazepam-D5 ISTD	6.471	5696860	231313	24.6283	400.0814
Nitrazepam	Clonazepam-D4 ISTD alphahydroxyalprazolam-D5	7.301	536528	187467	2.8620	256.3179
alpha-Hydroxyalprazolam	ISTD	7.431	115381	39309	2.9353	479.5221
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.480	335965	98499	3.4109	854.4175
Nordiazepam	Nordiazepam-D5 ISTD	7.689	966729	98499	9.8146	542.1069
Oxazepam	Oxazepam D5 ISTD	7.695	1705580	360345	4.7332	490.7440
Clonazepam	Clonazepam-D4 ISTD	8.029	831797	187467	4.4370	505.6856
Lorazepam	Oxazepam D5 ISTD alphahydroxyalprazolam-D5	8.051	408734	360345	1.1343	503.0407
Alprazolam	ISTD	8.063	414388	39309	10.5419	482.6442
Flunitrazepam	Clonazepam-D4 ISTD	8.563	1911653	187467	10.1973	499.9970
Temazepam	Oxazepam D5 ISTD	8.832	3274822	360345	9.0880	502.3937
Diazepam	Diazepam-D5 ISTD	9.385	1319772	231313	5.7056	531.2482

Samples Report Benzo.xlsx Printed at: 10:38 AM on: 1/5/2017

Batch Data Path D:\2016 Data\1-4-17 Blood Benzo\QuantResults\1417 blood benzo.batch.bin

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 1/5/2017 10:36 AM
 Analyst Name
 ISP Tox

 Report Time
 1/5/2017 10:37 AM
 Reporter Name
 ISP Tox

 Last Calib Update
 1/5/2017 10:36 AM
 Batch State
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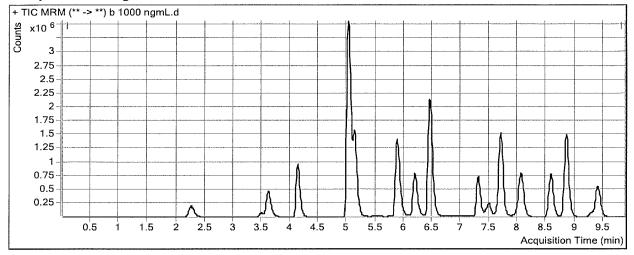
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Dilution1Acq MethodBenzos_Z_Drugs_ACN_FA_ISP 2016.mPositionP2-A7Sample Infoppd 12/22/16- Unextracted A 1-9-17

Inj Vol -1 Comment AM 13 Benzo and Z by LCQQQ

Sample Chromatogram



Results						
Compound	ISTD Compound 7-Aminoflunitrazepam-D7	RT	Response	ISTD Resp	Resp Ratio	Final Conc
7-Aminoclonazepam	ISTD 7-Aminoflunitrazepam-D7	2.258	977337	339685	2.8772	1018.1142
7-Aminoflunitrazepam	ISTD	3.620	2182938	339685	6.4264	1008.2488
zopiclone	Oxazepam D5 ISTD	4.124	2903889	326855	8.8843	979.3548
zolpidem	Oxazepam D5 ISTD	5.020	14167348	326855	43.3445	1008.8564
Chlordiazepoxide	Nordiazepam-D5 ISTD	5.130	5054941	117312	43.0895	996.9083
quetiapine	Oxazepam D5 ISTD	5.881	4463204	326855	13.6550	1002.1496
Midazolam	Clonazepam-D4 ISTD	6.192	3125162	214665	14.5583	757.1851
Flurazepam	Diazepam-D5 ISTD	6.446	9643416	221560	43.5250	708.9163
Nitrazepam	Clonazepam-D4 ISTD alphahydroxyalprazolam-D5	7.301	2436247	214665	11.3491	999.9492
alpha-Hydroxyalprazolam	ISTD	7.431	275978	37509	7.3576	1014.6144
alpha-hydroxytriazolam	Nordiazepam-D5 ISTD	7.480	622727	117312	5.3083	1329.6347
Nordiazepam	Nordiazepam-D5 ISTD	7.697	2076750	117312	17.7027	999.8527
Oxazepam	Oxazepam D5 ISTD	7.695	2940783	326855	8.9972	999.8743
Clonazepam	Clonazepam-D4 ISTD	8.020	1804141	214665	8.4045	997.1316
Lorazepam	Oxazepam D5 ISTD alphahydroxyalprazolam-D5	8.051	737970	326855	2.2578	1000.0528
Alprazolam	ISTD	8.071	714984	37509	19.0615	1010.6940
Flunitrazepam	Clonazepam-D4 ISTD	8.563	3281388	214665	15.2861	618.5714
Temazepam	Oxazepam D5 ISTD	8.840	6490372	326855	19.8571	998.9794
Diazepam	Diazepam-D5 ISTD	9.394	2401618	221560	10.8396	999.4922

Samples Report Benzo.xlsx Printed at: 10:38 AM on: 1/5/2017

