








REVIEWED

By Anne Nord at 1:44 pm, Apr 21, 2020

4/20/2020

BW

Worklist: 4175

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2020-0566	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	
C2020-0612	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	
C2020-0665	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	
C2020-0676	3	URINE	AM 28 Urine Multi-Drug Confirmation Panel 2 by LC-QQ	
M2020-0945	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	
M2020-1085	2	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	
P2020-0734	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	

AM# 28: Multi-Drug Quantitation by LC-MS/MS

BW

Extraction Date 4/17/2020

Analyst: Britany Wylie

Plate lot#: ~~190729~~ (part IDP-111)

Plate Expiration: 1/29/20

P2 Lot 190730 BW

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water

Blank Blood Lot: 20A52255 **Urine Blank lot:** 32420

Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

LCMS-QQQ ID: 69679

Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist:

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900uL ethyl acetate**.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5%, S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: Only the following compounds were evaluated: 7-aminoflunitrazepam, a-hydroxymidazolam, Etizolam, Chlordiazepoxide (5-100), Levamisole, MDA, MDMA, Midazolam, Nortriptyline, Phenytoin

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request

01/13/2020

Forensic Scientist

Celena Shrum

Analytical Methods

Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows:

- *MDS (batch IDP-107-190725)- Expiration is 1/25/2020
- *THC (batch IDP-108-190716)- Expiration is 1/16/2020
- *MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020
- *MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

Celena Shrum

Date: 01/13/2020

Celena Shrum

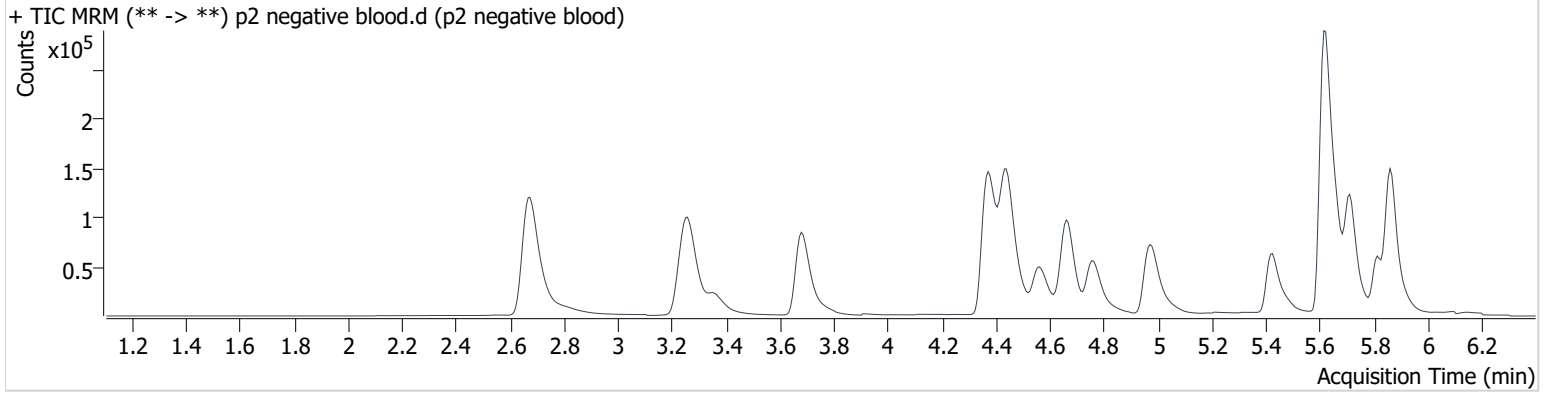
Toxicology Discipline Lead

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 negative blood.d
Type	Sample	Sample	p2 negative blood
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-E6	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 8:38:25 AM		
Sample Info.			

Sample Chromatogram

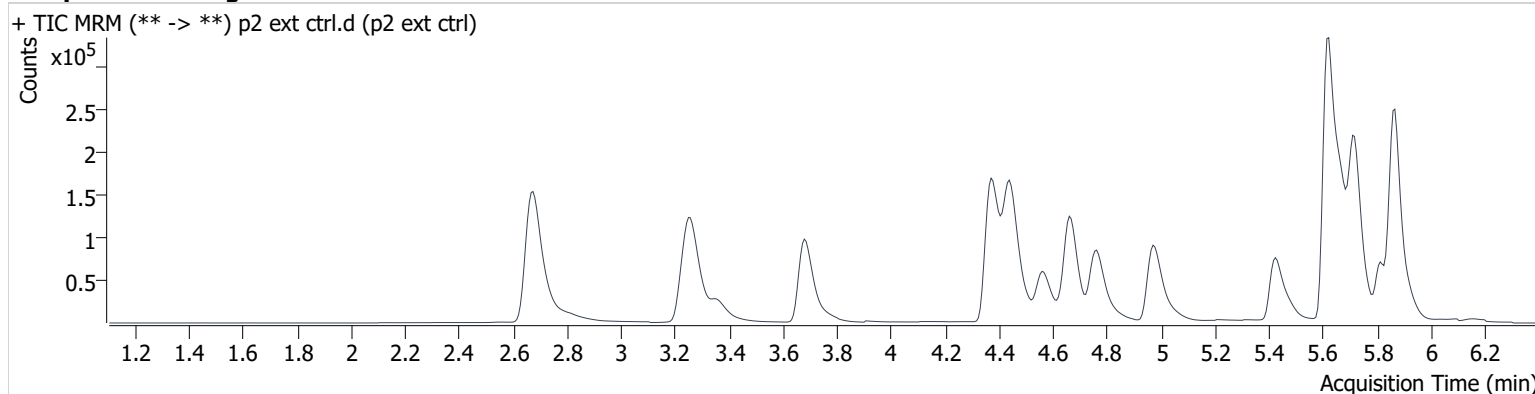


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 ext ctrl.d
Type	Sample	Sample	p2 ext ctrl
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-F6	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 8:49:14 AM		

Sample Chromatogram



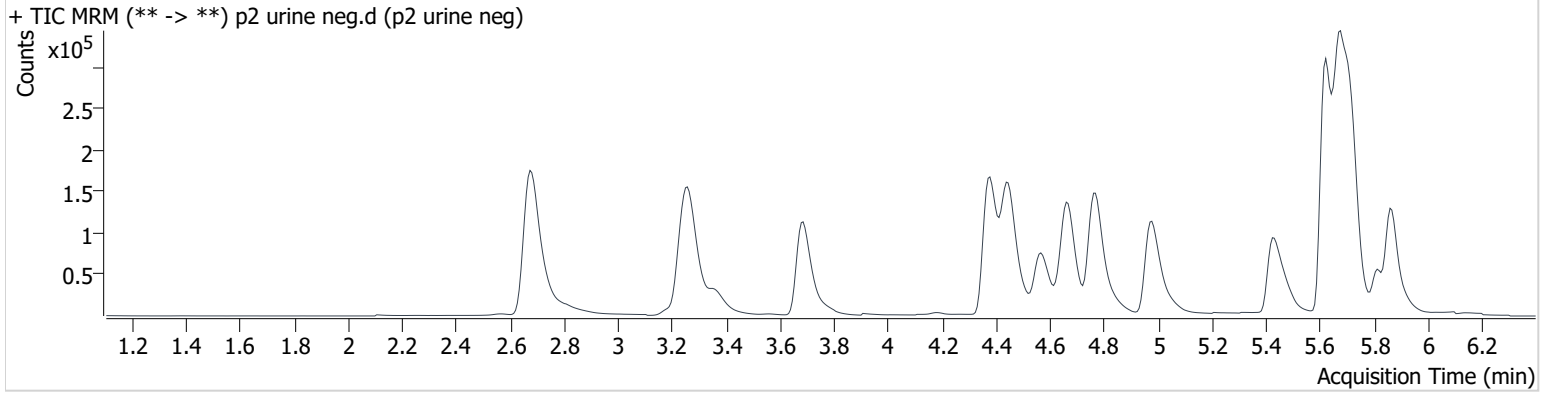
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Chlordiazepoxide	5.866	160956	1381.4	77.4	441.8	203530	91.073 ng/ml
Nortriptyline	5.727	85510	28549.0	71.8	1593.9	38966	84.643 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 urine neg.d
Type	Sample	Sample	p2 urine neg
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-E7	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 11:09:21 AM		
Sample Info.			

Sample Chromatogram

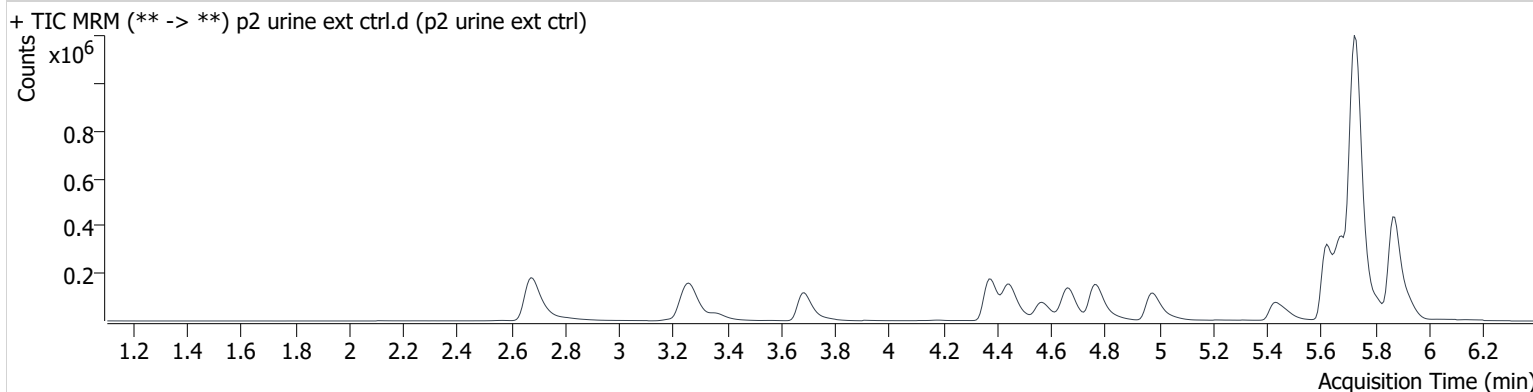


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 urine ext ctrl.d
Type	Sample	Sample	p2 urine ext ctrl
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-F7	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 11:20:09 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Chlordiazepoxide	5.873	641682	2591.5	83.5	12619.9	169237	442.535 ng/ml
Nortriptyline	5.733	1655069	1428992.4	71.7	3871.9	117527	541.998 ng/ml

Toxicology AM method 25/28 urine external control prep
working solution 10000 ng/ml in meoh Hydromorphone, Diphenhydramine, Nortriptyline, Chlordiazepoxide
Stock solution 1mg/ml 50 ul each in 4800ul meOH

ppd 4/17/20: Exp: 6/1/20 lot 41720 by baw

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Diphenhydramine	FN09161502	9/1/2020
nortriptyline	FN06191503	8/1/2020
chlordiazepoxide	FE07241502	8/1/2020

AM 25/28 control 500 ul working solution (41720) in 4500 ul negative urine (500ng/mL Expected concentration)

ppd 4/17/20, exp 6/1/20 lot u32420 negative urine 41520 by BAW

AM 25/28 Blood Control: 50ul working solution (4172020) in 4950 ul neg blood (100ng/mL Expected concentration)

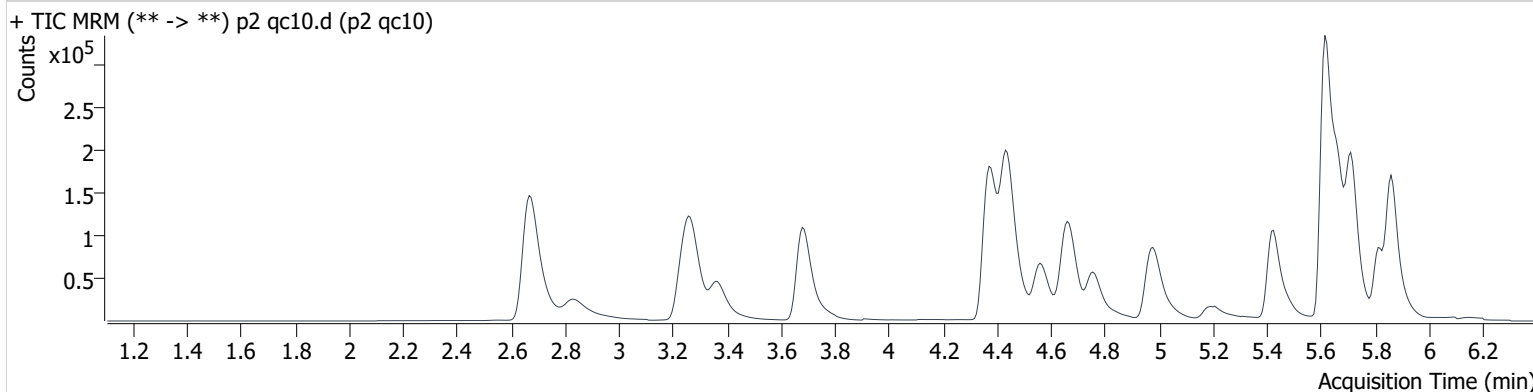
ppd 4/17/20, exp 6/1/20 lot b3920 neg blood lot 20A52255 by BAW

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 qc10.d
Type	QC	Sample	p2 qc10
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-A6	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 7:23:08 AM		

Sample Chromatogram



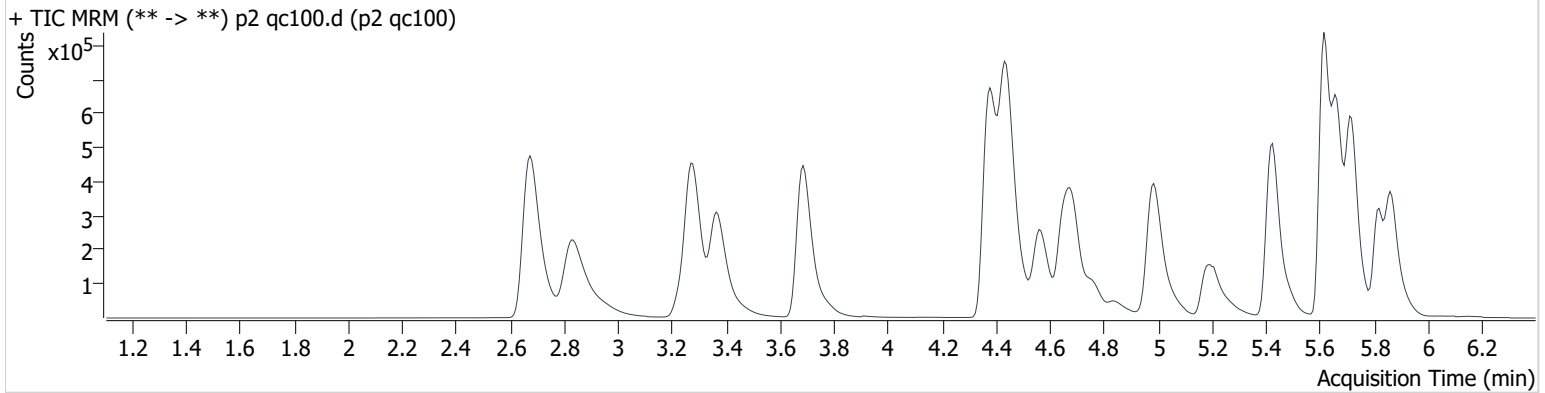
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.686	49821	1089.4	27.1	1213.1	258814	10.053 ng/ml
alpha-hydroxymidazolam	5.817	33368	443.9	53.1	1980.5	161818	9.803 ng/ml
Chlordiazepoxide	5.866	16404	1696.9	73.7	82.6	169143	9.808 ng/ml
Etizolam	5.817	23723	18759.6	23.9	1606.9	24372	10.114 ng/ml
Levamisole	2.833	61268	3320.7	85.2	938.6	590883	10.624 ng/ml
MDA	3.279	93875	404.1	27.2	887.1	256730	9.634 ng/ml
MDMA	3.371	53770	613.3	84.8	2029.0	56219	9.636 ng/ml
Midazolam	5.859	13343	277.0	97.6	918.9	169143	9.942 ng/ml
Nortriptyline	5.727	6861	418.1	77.9	78.9	21713	12.373 ng/ml
Phenytion	5.495	1959	284.6	74.9	60.9	10056	10.447 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 qc100.d
Type	QC	Sample	p2 qc100
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-B6	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 7:33:57 AM		

Sample Chromatogram



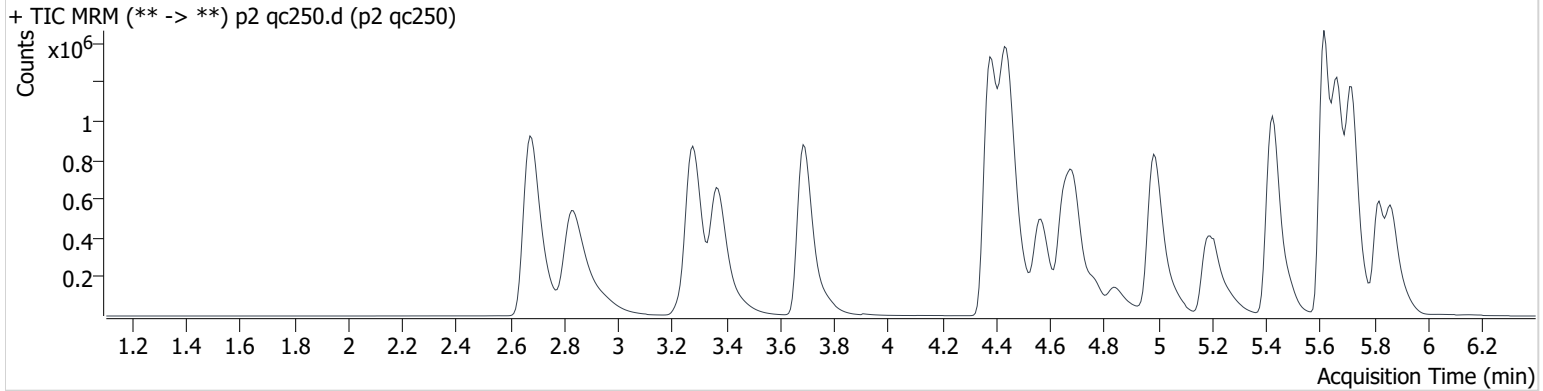
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.686	547089	8613.2	27.4	13670.9	297103	106.796 ng/ml
alpha-hydroxymidazolam	5.817	327783	3919.9	53.4	1670.7	164943	111.981 ng/ml
Chlordiazepoxide	5.866	144539	8130.5	79.2	214.0	182164	91.381 ng/ml
Etizolam	5.817	230592	5899.6	24.1	39021.6	22618	103.670 ng/ml
Levamisole	2.833	708386	518.7	85.5	16755.3	688478	100.827 ng/ml
MDA	3.279	1019051	22914.6	27.1	18108.5	288072	109.423 ng/ml
MDMA	3.365	607935	148576.1	84.0	2903.8	64283	96.211 ng/ml
Midazolam	5.859	137801	109698.9	94.8	2753.2	182164	95.059 ng/ml
Nortriptyline	5.727	16730	233.0	71.9	65.7	6254	103.128 ng/ml
Phenytion	5.495	19671	2919.6	79.2	798.2	10534	92.277 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 qc250.d
Type	QC	Sample	p2 qc250
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-C6	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 7:44:44 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.686	1327714	50728.3	27.4	25310.5	299373	258.963 ng/ml
alpha-hydroxymidazolam	5.817	678118	3707.4	53.2	4440.3	144437	267.317 ng/ml
<u>Chlordiazepoxide</u>	<u>5.866</u>	<u>265046</u>	<u>17365.8</u>	<u>84.2</u>	<u>1816.0</u>	<u>160729</u>	<u>191.588 ng/ml</u> *
Etizolam	5.817	487522	180685.3	23.5	55226.4	18344	269.862 ng/ml
Levamisole	2.833	1722610	1131.5	85.4	774.9	657222	256.049 ng/ml
MDA	3.279	2239272	2385.0	27.1	33966.7	262068	266.953 ng/ml
MDMA	3.371	1381097	57444.8	84.5	23401.4	60206	233.519 ng/ml
Midazolam	5.859	301331	2037.1	94.1	2861.5	160729	235.540 ng/ml
Nortriptyline	5.727	59610	958.3	72.3	1303.8	9148	250.904 ng/ml
Phenytion	5.495	45335	1076.9	78.6	637.6	10017	222.329 ng/ml

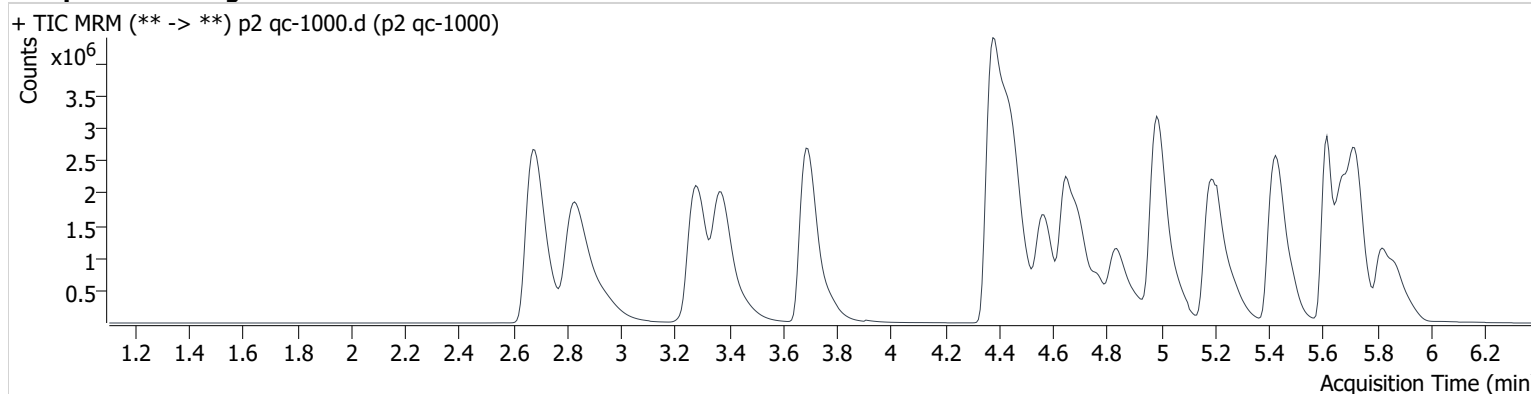
* Outside curve range

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 qc-1000.d
Type	QC	Sample	p2 qc-1000
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-D6	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 7:55:32 AM		

Sample Chromatogram

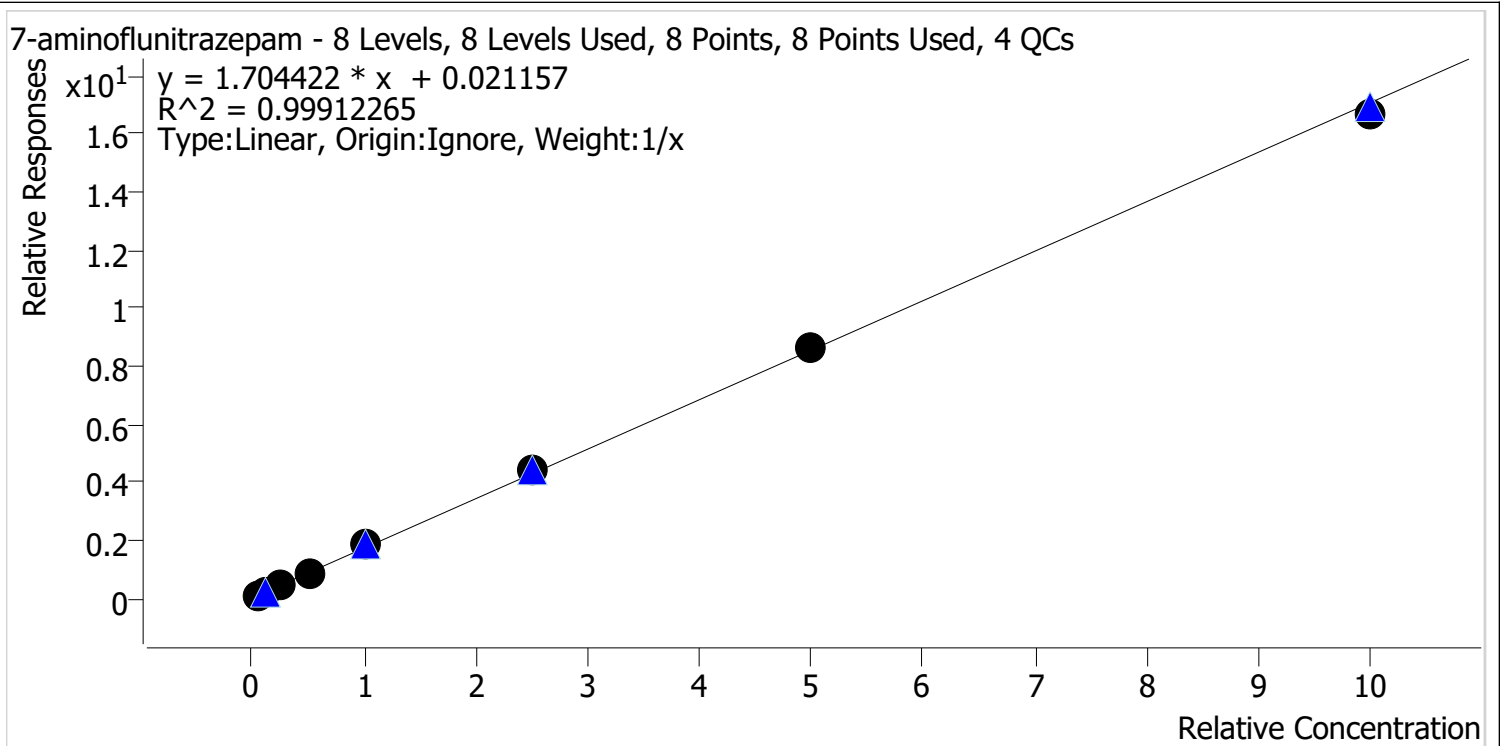


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.693	4196812	55859.2	27.1	4271.7	248173	990.931 ng/ml
alpha-hydroxymidazolam	5.817	1553417	2392.3	52.7	3066.0	90864	978.762 ng/ml
<u>Chlordiazepoxide</u>	<u>5.873</u>	<u>445062</u>	<u>457.6</u>	<u>91.9</u>	<u>1941.0</u>	<u>122794</u>	<u>422.959 ng/ml</u> *
Etizolam	5.817	1067810	7842.8	24.2	2228.3	9961	1087.742 ng/ml
Levamisole	2.826	6623430	236328.6	85.8	185335.7	558561	1156.587 ng/ml
MDA	3.286	5862382	174240.9	26.6	46701.8	193357	951.998 ng/ml
MDMA	3.371	5219499	139726.2	84.4	150942.5	56906	934.020 ng/ml
Midazolam	5.865	959747	44514.9	93.7	1727.3	122794	981.865 ng/ml
Nortriptyline	5.733	287062	6860.4	72.2	7685.4	10993	1004.805 ng/ml
Phenytion	5.502	133183	12650.7	79.9	3447.4	5820	1120.371 ng/ml

* Outside curve range

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte 7-aminoflunitrazepam **Internal Standard** 7-aminoflunitrazepam-D7



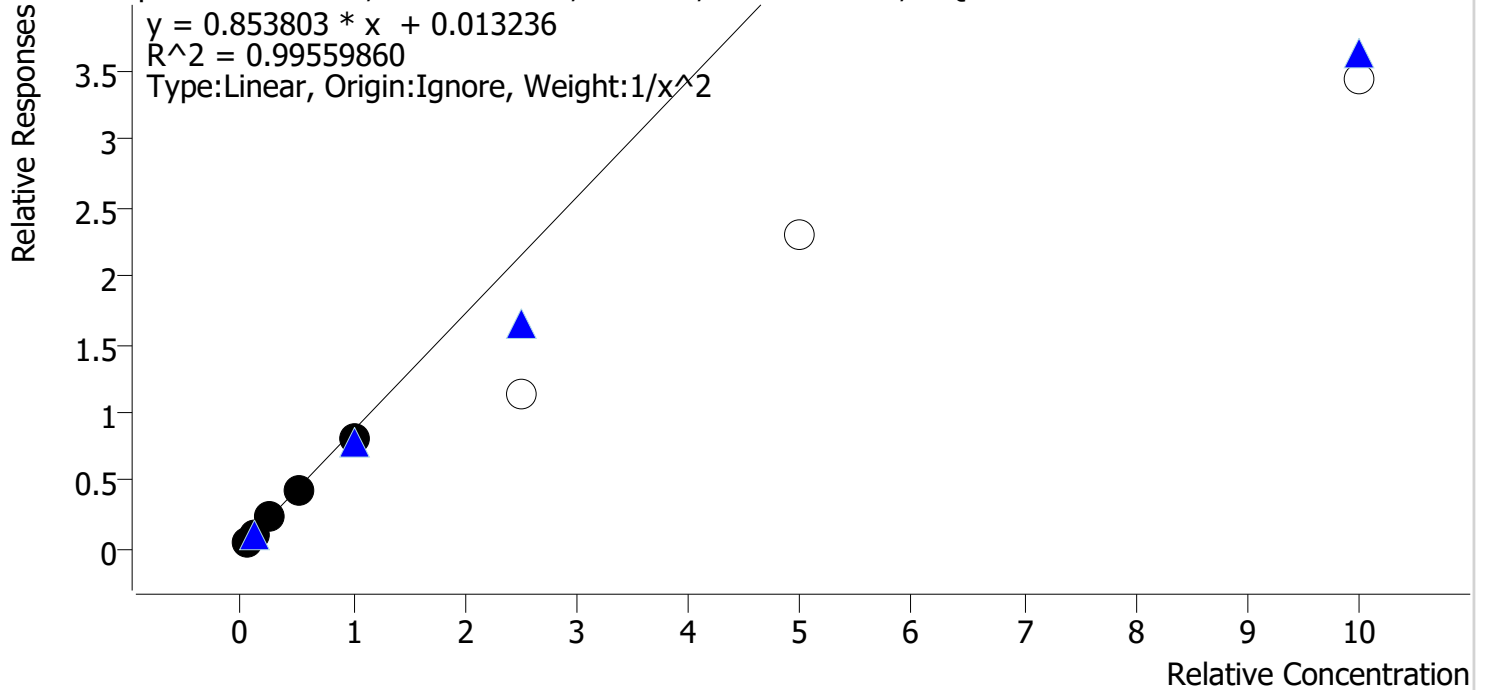
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	4.4	87.9
p2 cal 2	2	✓	10.0	9.8	98.2
p2 cal 3	3	✓	25.0	25.5	102.2
p2 cal 4	4	✓	50.0	51.2	102.3
p2 cal 5	5	✓	100.0	107.5	107.5
p2 cal 6	6	✓	250.0	256.4	102.6
p2 cal 7	7	✓	500.0	508.7	101.7
p2 cal 8	8	✓	1000.0	976.4	97.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte Chlordiazepoxide **Internal Standard** Midazolam-D4

BW

Chlordiazepoxide - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs



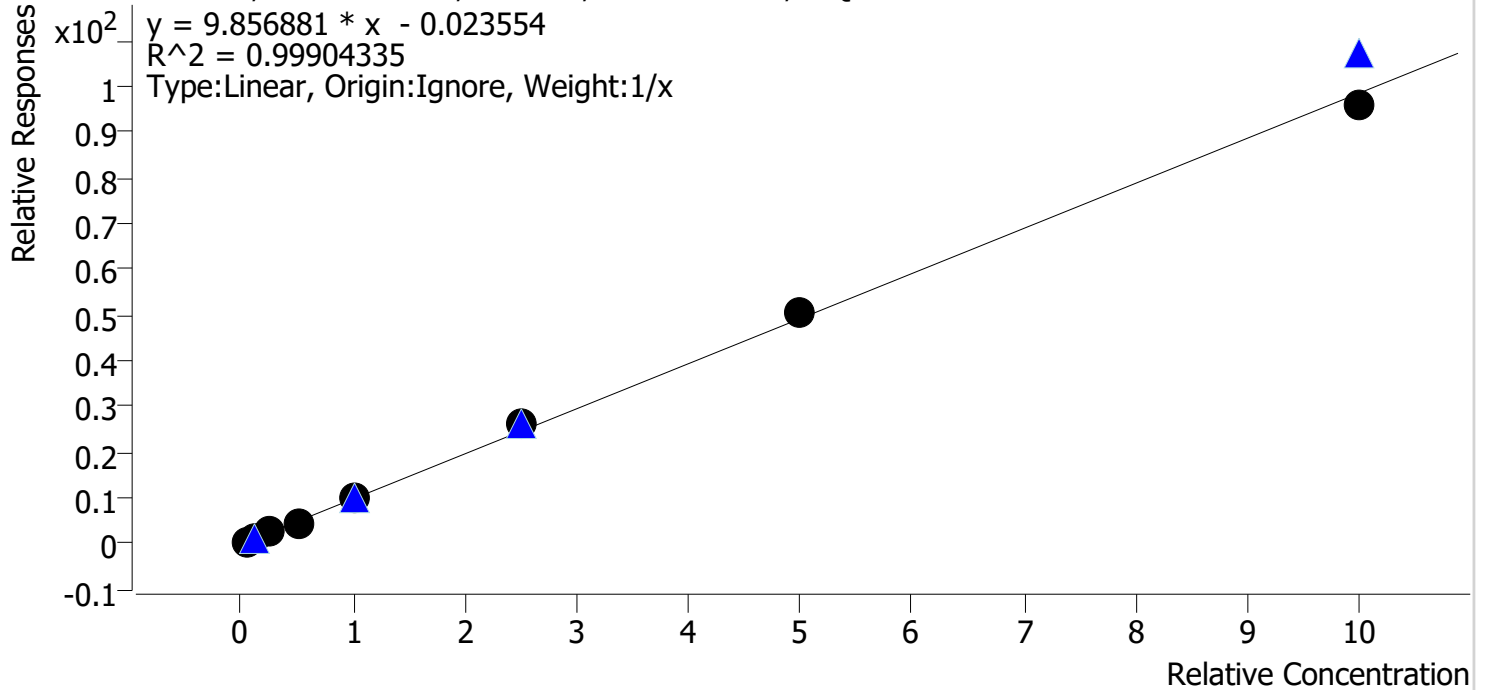
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	4.9	97.3
p2 cal 2	2	✓	10.0	10.4	103.7
p2 cal 3	3	✓	25.0	26.7	106.9
p2 cal 4	4	✓	50.0	48.7	97.5
p2 cal 5	5	✓	100.0	94.6	94.6
p2 cal 6	6	✗	250.0	130.9	52.4
p2 cal 7	7	✗	500.0	266.4	53.3
p2 cal 8	8	✗	1000.0	400.0	40.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte Etizolam *BW*

Internal Standard Phenazepam-D4

Etizolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	5.1	101.2
p2 cal 2	2	✓	10.0	9.8	98.1
p2 cal 3	3	✓	25.0	24.4	97.4
p2 cal 4	4	✓	50.0	48.6	97.1
p2 cal 5	5	✓	100.0	100.5	100.5
p2 cal 6	6	✓	250.0	265.2	106.1
p2 cal 7	7	✓	500.0	509.5	101.9
p2 cal 8	8	✓	1000.0	977.0	97.7

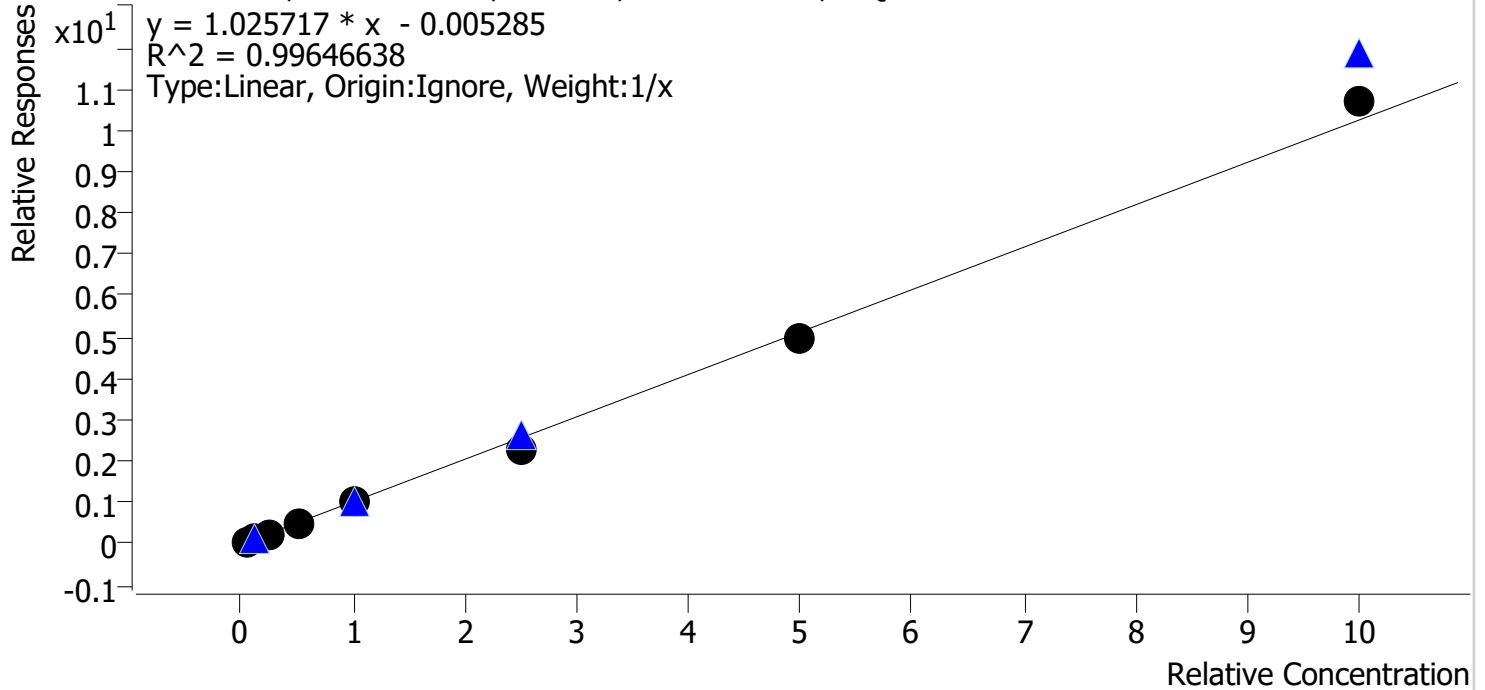
Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\lam 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte Levamisole *BW*

Internal Standard

Pseudoephedrine-D3

Levamisole - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



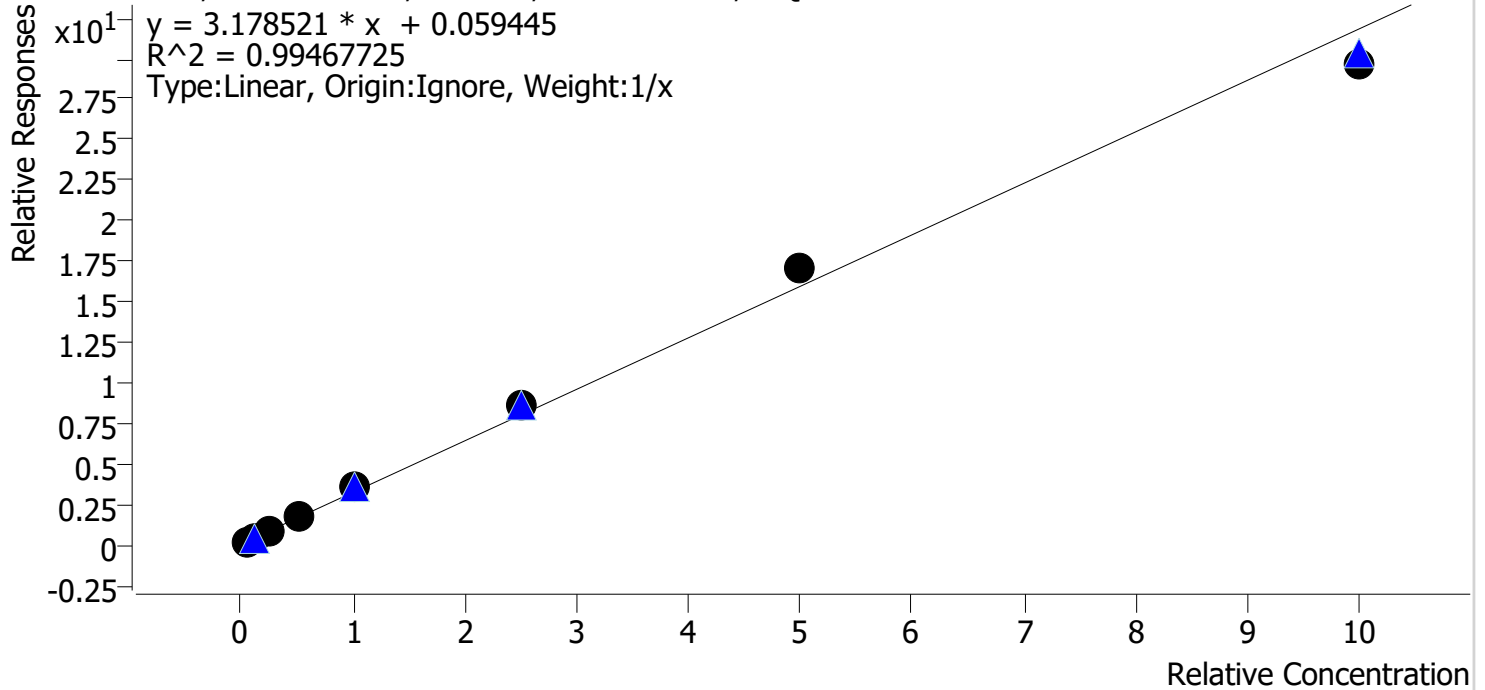
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	5.5	109.4
p2 cal 2	2	✓	10.0	10.1	100.5
p2 cal 3	3	✓	25.0	24.7	98.8
p2 cal 4	4	✓	50.0	50.3	100.5
p2 cal 5	5	✓	100.0	101.7	101.7
p2 cal 6	6	✓	250.0	219.2	87.7
p2 cal 7	7	✓	500.0	484.6	96.9
p2 cal 8	8	✓	1000.0	1044.0	104.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte MDA *BW*

Internal Standard MDA-D5

MDA - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



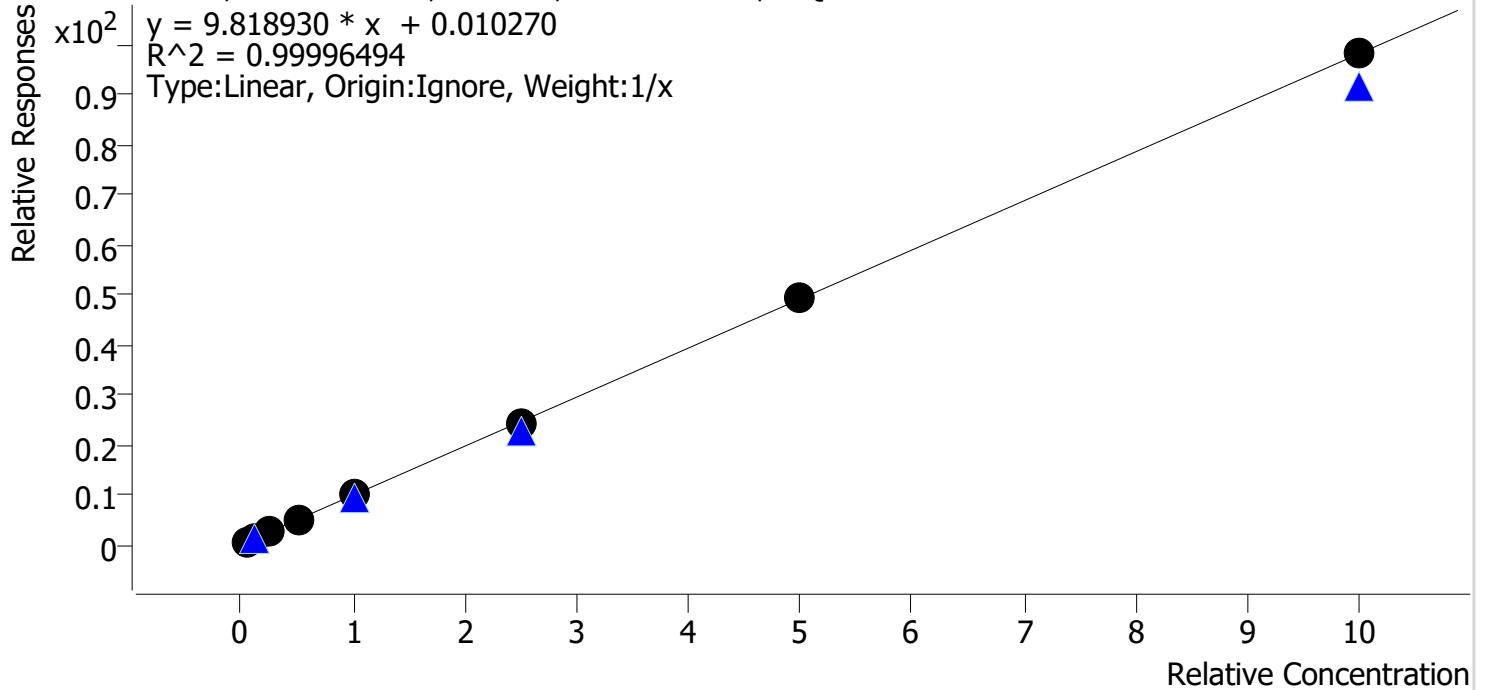
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	3.9	78.1
p2 cal 2	2	✓	10.0	9.5	94.6
p2 cal 3	3	✓	25.0	25.9	103.6
p2 cal 4	4	✓	50.0	52.7	105.4
p2 cal 5	5	✓	100.0	110.6	110.6
p2 cal 6	6	✓	250.0	268.7	107.5
p2 cal 7	7	✓	500.0	533.8	106.8
p2 cal 8	8	✓	1000.0	935.0	93.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte MDMA *BW*

Internal Standard MDMA-D6

MDMA - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



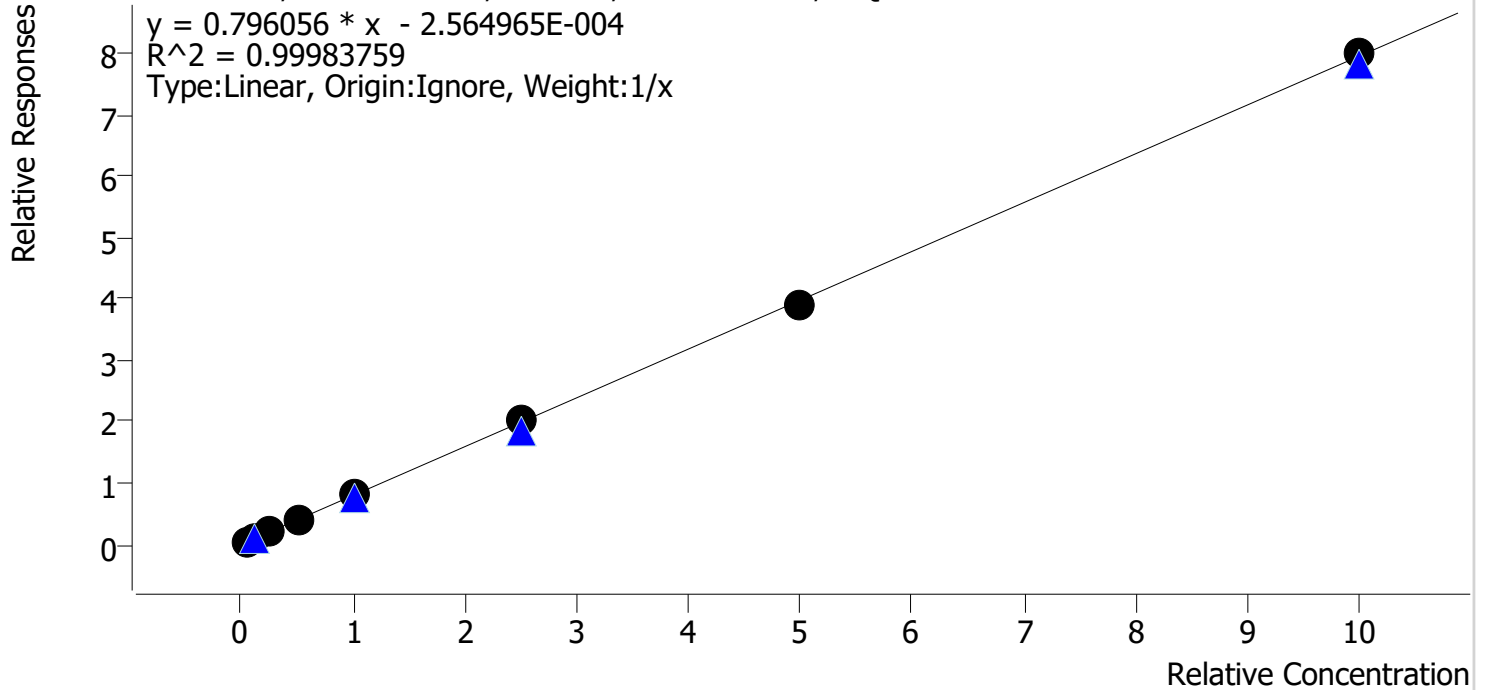
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	5.1	102.0
p2 cal 2	2	✓	10.0	10.1	100.8
p2 cal 3	3	✓	25.0	24.6	98.3
p2 cal 4	4	✓	50.0	48.9	97.7
p2 cal 5	5	✓	100.0	101.5	101.5
p2 cal 6	6	✓	250.0	249.0	99.6
p2 cal 7	7	✓	500.0	500.7	100.1
p2 cal 8	8	✓	1000.0	1000.3	100.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte Midazolam *BW*

Internal Standard Midazolam-D4

Midazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	5.1	102.5
p2 cal 2	2	✓	10.0	10.2	101.7
p2 cal 3	3	✓	25.0	24.7	98.9
p2 cal 4	4	✓	50.0	47.6	95.1
p2 cal 5	5	✓	100.0	102.1	102.1
p2 cal 6	6	✓	250.0	251.4	100.6
p2 cal 7	7	✓	500.0	493.7	98.7
p2 cal 8	8	✓	1000.0	1005.3	100.5

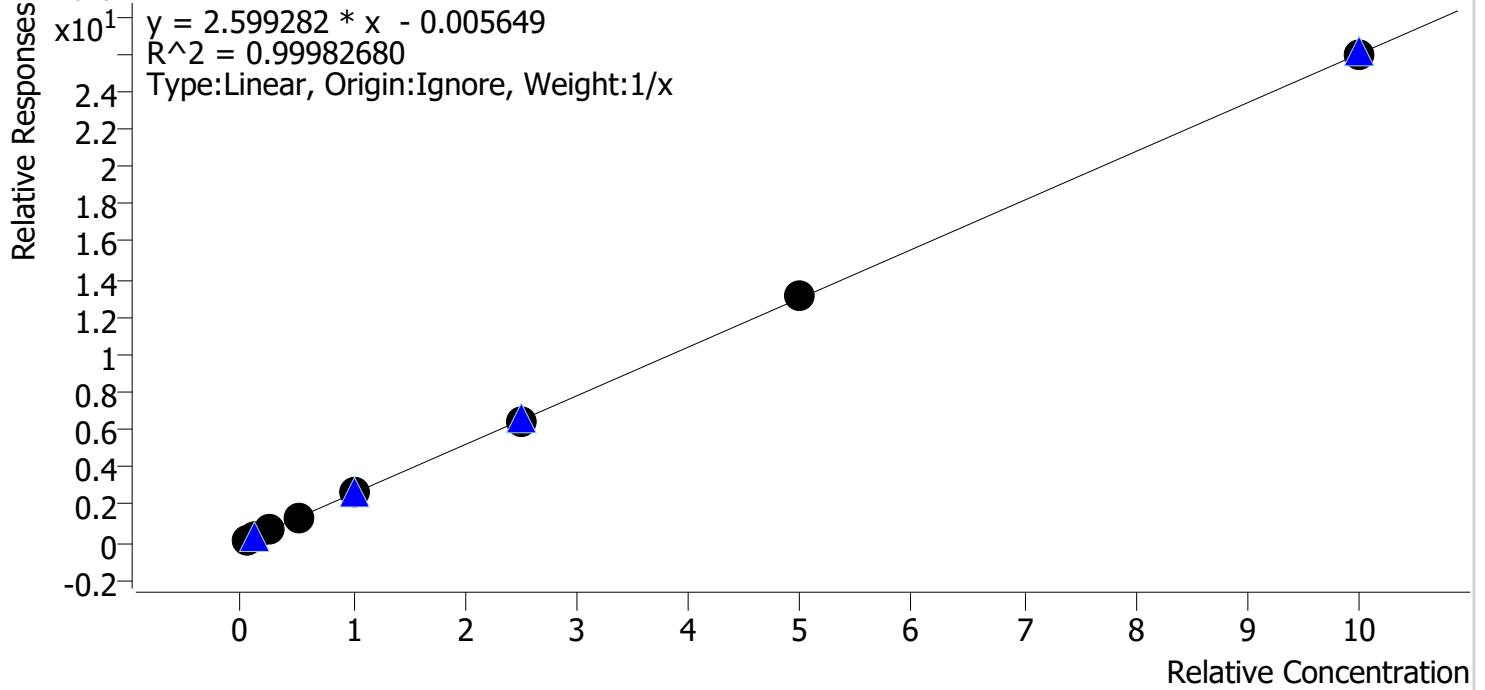
Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte Nortriptyline *BW*

Internal Standard

Nortriptyline-d3

Nortriptyline - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



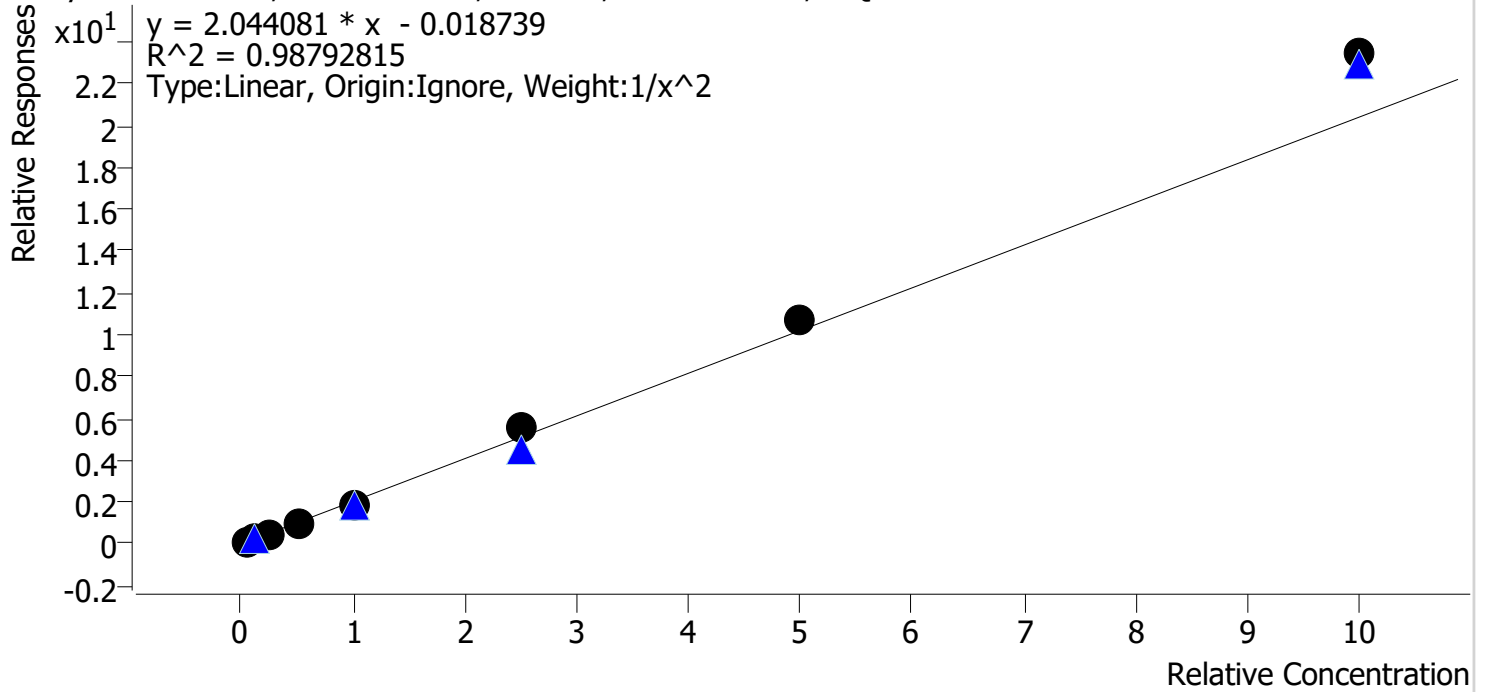
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	5.4	107.2
p2 cal 2	2	✓	10.0	9.9	99.3
p2 cal 3	3	✓	25.0	24.7	98.7
p2 cal 4	4	✓	50.0	46.5	93.0
p2 cal 5	5	✓	100.0	101.3	101.3
p2 cal 6	6	✓	250.0	250.4	100.1
p2 cal 7	7	✓	500.0	502.5	100.5
p2 cal 8	8	✓	1000.0	999.4	99.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Last Cal. Update 4/19/2020 7:44 PM
Analyst Name ISP\datastor
Analyte Phenytoin *BW*

Internal Standard Phenytoin-D10

Phenytoin - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



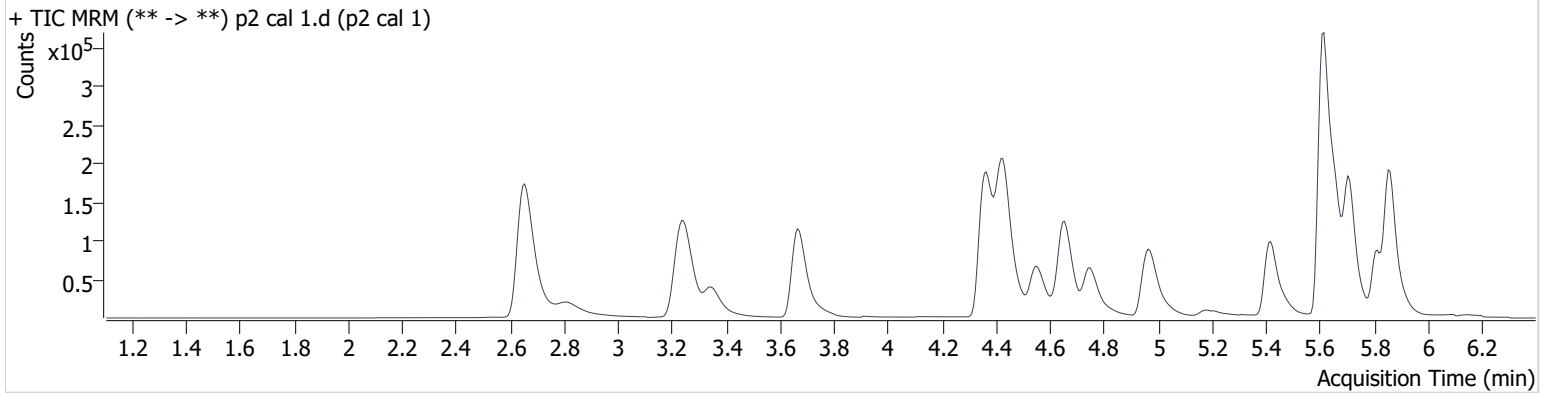
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 cal 1	1	✓	5.0	5.2	104.5
p2 cal 2	2	✓	10.0	9.8	98.4
p2 cal 3	3	✓	25.0	21.7	86.8
p2 cal 4	4	✓	50.0	44.5	89.0
p2 cal 5	5	✓	100.0	94.6	94.6
p2 cal 6	6	✓	250.0	268.8	107.5
p2 cal 7	7	✓	500.0	521.3	104.3
p2 cal 8	8	✓	1000.0	1148.9	114.9

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 1.d
Type	Cal	Sample	p2 cal 1
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-A5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 5:24:37 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.680	33161	1523.9	27.8	339.6	345301	4.393 ng/ml
alpha-hydroxymidazolam	5.810	19870	173.2	53.7	767.9	196124	3.786 ng/ml
Chlordiazepoxide	5.860	10919	574.5	67.9	69.2	199373	4.864 ng/ml
Etizolam	5.810	13793	6724.4	22.9	2335.7	29038	5.058 ng/ml
Levamisole	2.819	38318	549.7	86.0	1474.8	753957	5.470 ng/ml
MDA	3.266	56482	380.3	26.9	125.2	307656	3.906 ng/ml
MDMA	3.351	33504	2296.0	84.2	2783.6	65571	5.099 ng/ml
Midazolam	5.859	8079	2452.1	97.3	2944.4	199373	5.123 ng/ml
Nortriptyline	5.720	1730	26.4	82.4	7.3 Low	12946	5.359 ng/ml
Phenytion	5.488	1107	29.9	81.8	33.0	12565	5.226 ng/ml

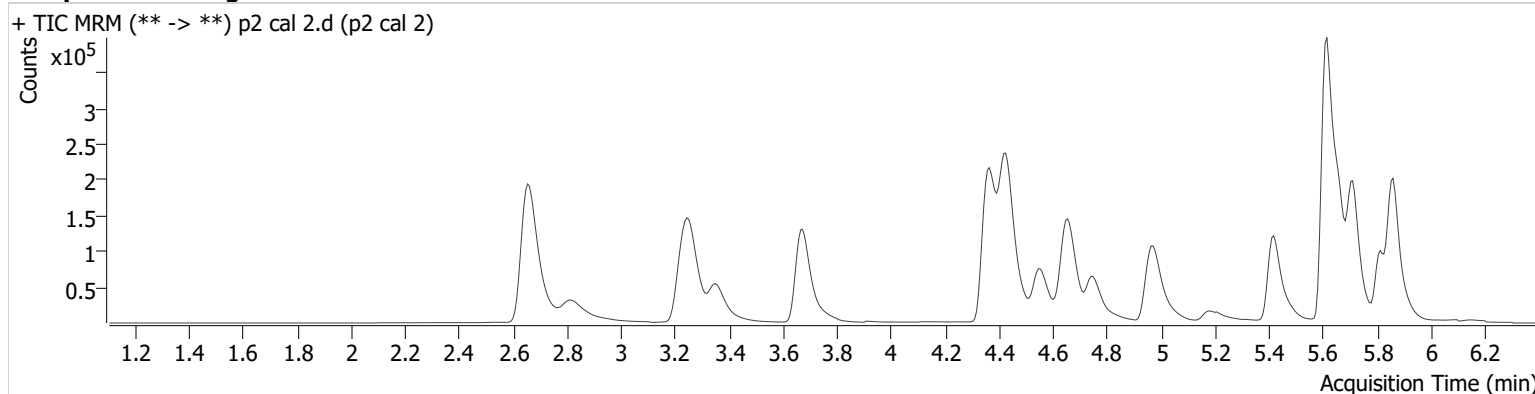
BW

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 2.d
Type	Cal	Sample	p2 cal 2
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-B5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 5:35:26 AM		

Sample Chromatogram



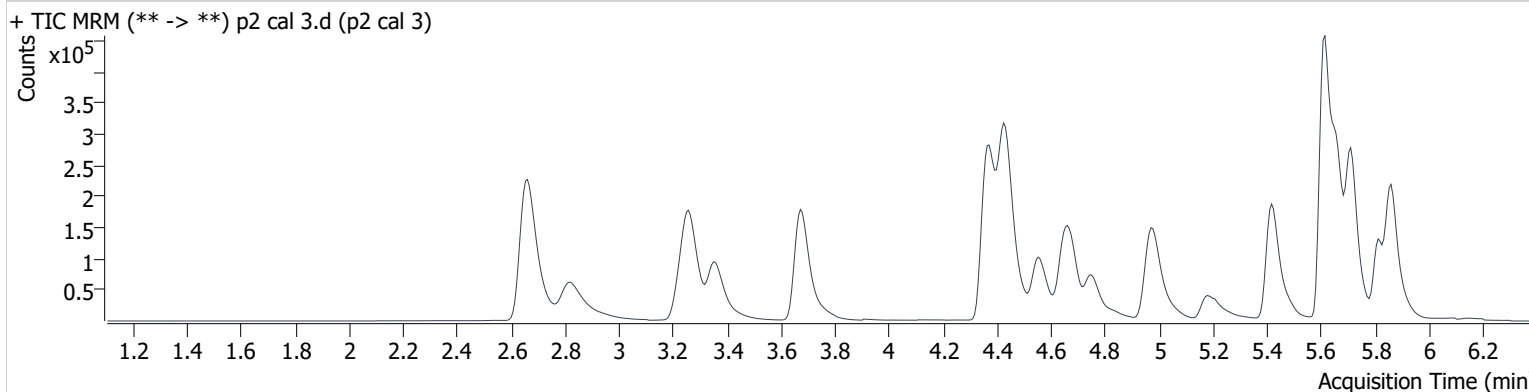
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.680	65416	764.3	27.4	709.2	347054	9.818 ng/ml
alpha-hydroxymidazolam	5.810	38389	794.2	53.9	2153.6	191682	9.463 ng/ml
Chlordiazepoxide	5.866	20230	847.6	71.2	44.6	198755	10.371 ng/ml
Etizolam	5.810	26279	25128.0	24.8	8923.6	27860	9.808 ng/ml
Levamisole	2.819	74916	14076.4	86.5	3402.8	765770	10.053 ng/ml
MDA	3.266	110056	1078.3	27.1	3069.9	305607	9.460 ng/ml
MDMA	3.358	64903	13011.4	84.2	1116.4	64931	10.075 ng/ml
Midazolam	5.859	16034	1365.9	92.2	12892.5	198755	10.166 ng/ml
Nortriptyline	5.727	2507	51.9	79.0	14.0	9934	9.926 ng/ml
Phenytion	5.488	2213	90.7	75.6	71.4	12125	9.844 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 3.d
Type	Cal	Sample	p2 cal 3
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-C5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 5:46:14 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.680	143744	7557.3	27.4	1189.3	314849	25.545 ng/ml
alpha-hydroxymidazolam	5.810	83966	1101.4	53.6	470.3	169005	26.476 ng/ml
Chlordiazepoxide	5.866	43167	1538.7	74.9	388.4	178738	26.736 ng/ml
Etizolam	5.817	60275	3971.1	24.2	8503.5	25353	24.358 ng/ml
Levamisole	2.819	174142	17274.8	86.3	13310.7	701678	24.711 ng/ml
MDA	3.266	258368	5794.0	27.1	5714.0	292772	25.894 ng/ml
MDMA	3.358	151620	12311.8	85.1	1796.3	62561	24.578 ng/ml
Midazolam	5.859	35117	17397.7	94.0	25770.3	178738	24.713 ng/ml
Nortriptyline	5.727	6869	1848.3	73.1	24.9	10808	24.667 ng/ml
Phenytion	5.488	4837	533.2	79.7	92.6	11385	21.702 ng/ml

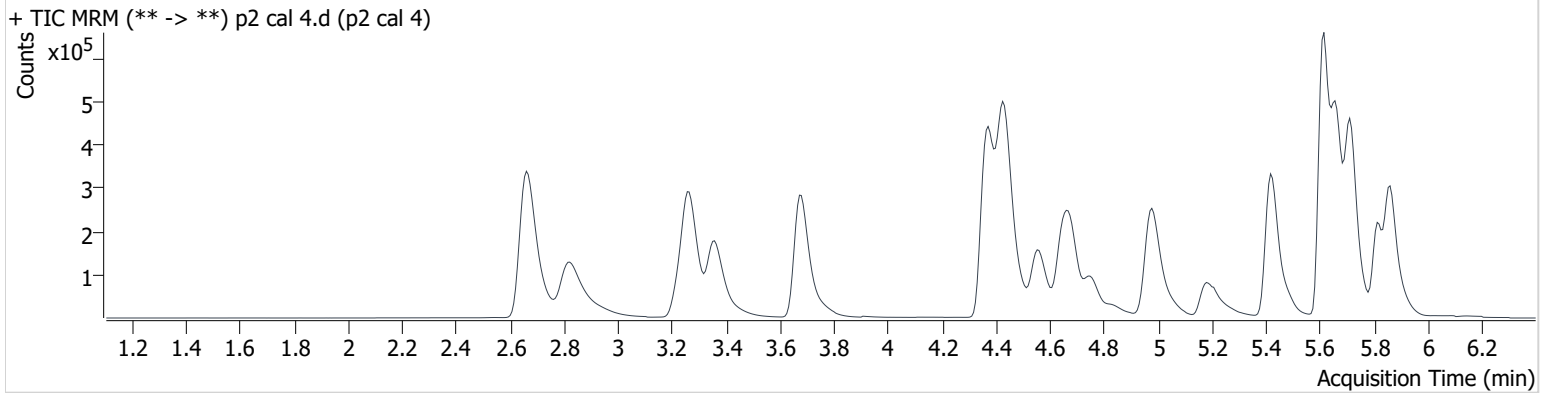
AM #28 Multi-Drug Quant. Results

BW

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 4.d
Type	Cal	Sample	p2 cal 4
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-D5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 5:57:01 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.680	314447	22549.2	27.1	5018.0	352125	51.152 ng/ml
alpha-hydroxymidazolam	5.810	186947	5005.5	52.7	4401.8	190061	54.403 ng/ml
Chlordiazepoxide	5.866	88107	2361.1	80.3	284.7	205238	48.730 ng/ml
Etizolam	5.817	128501	38356.3	24.0	32840.5	26976	48.566 ng/ml
Levamisole	2.819	387469	45499.6	85.5	767.0	759256	50.268 ng/ml
MDA	3.266	540301	1267.5	27.3	4314.0	311455	52.707 ng/ml
MDMA	3.358	324409	31376.2	84.7	12782.9	67462	48.870 ng/ml
Midazolam	5.859	77652	5462.5	94.0	37733.5	205238	47.561 ng/ml
Nortriptyline	5.727	20226	15658.9	76.7	327.0	16813	46.499 ng/ml
Phenytion	5.495	11161	666.9	79.5	830.7	12531	44.491 ng/ml

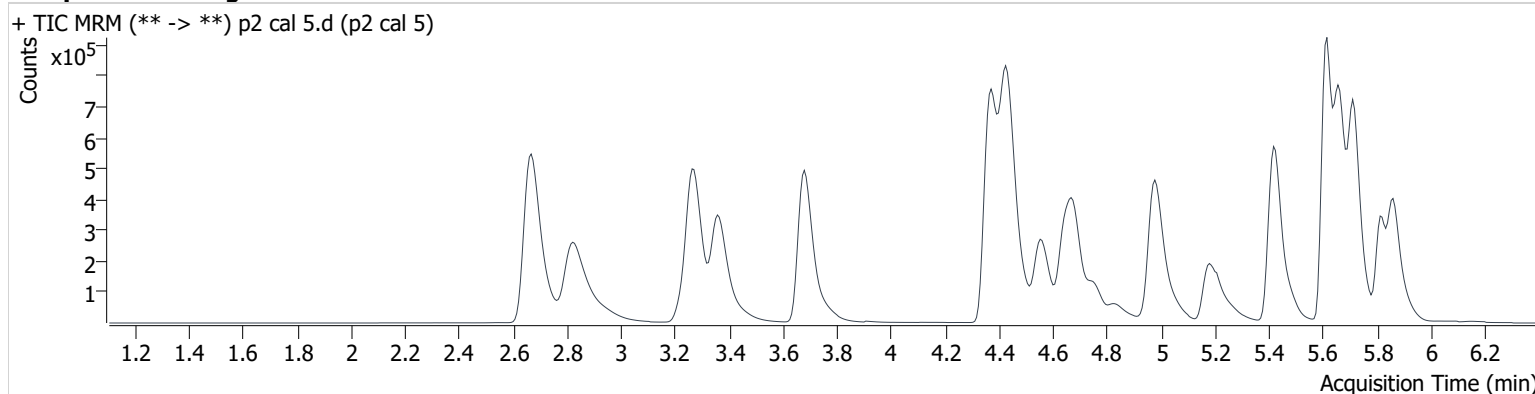
BW

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 5.d
Type	Cal	Sample	p2 cal 5
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-E5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 6:07:49 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.680	628924	19433.0	27.2	12104.1	339247	107.527 ng/ml
alpha-hydroxymidazolam	5.810	348391	4496.7	54.1	10772.1	179012	109.625 ng/ml
Chlordiazepoxide	5.866	156493	4533.9	80.3	618.1	190613	94.608 ng/ml
Etizolam	5.817	243258	245653.2	23.7	50008.5	24609	100.522 ng/ml
Levamisole	2.826	802129	36924.5	85.6	19753.0	773009	101.681 ng/ml
MDA	3.273	1128716	5550.8	27.0	6676.7	315871	110.551 ng/ml
MDMA	3.358	687252	56117.8	84.8	32402.6	68910	101.466 ng/ml
Midazolam	5.859	154870	27354.9	93.4	12705.9	190613	102.096 ng/ml
Nortriptyline	5.727	35397	1289.2	71.1	398.1	13469	101.323 ng/ml
Phenytion	5.495	22084	2502.9	73.3	474.4	11536	94.569 ng/ml

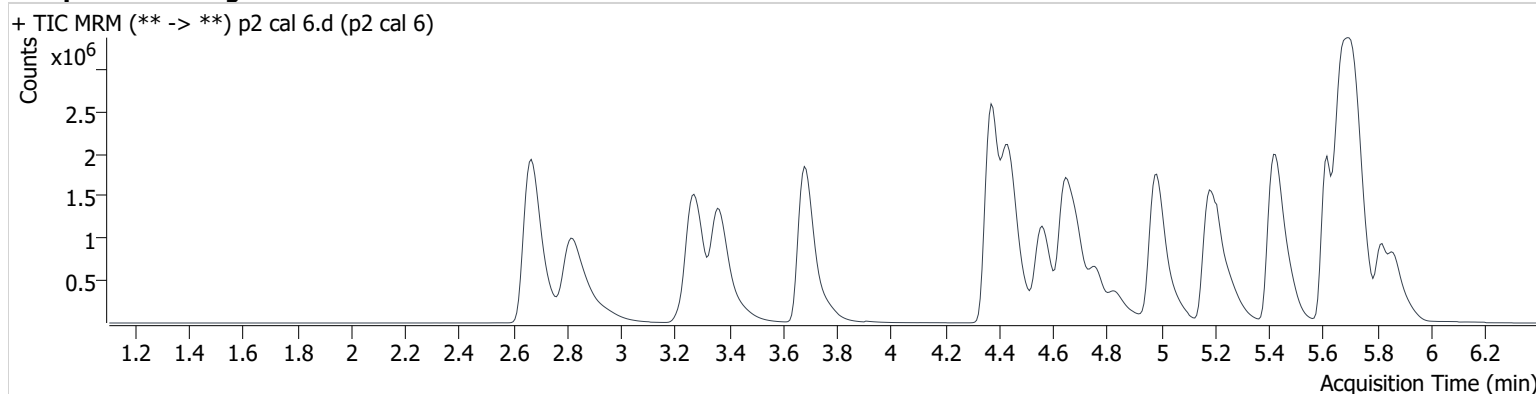
AM #28 Multi-Drug Quant. Results

BW

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 6.d
Type	Cal	Sample	p2 cal 6
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-F5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 6:18:36 AM		

Sample Chromatogram



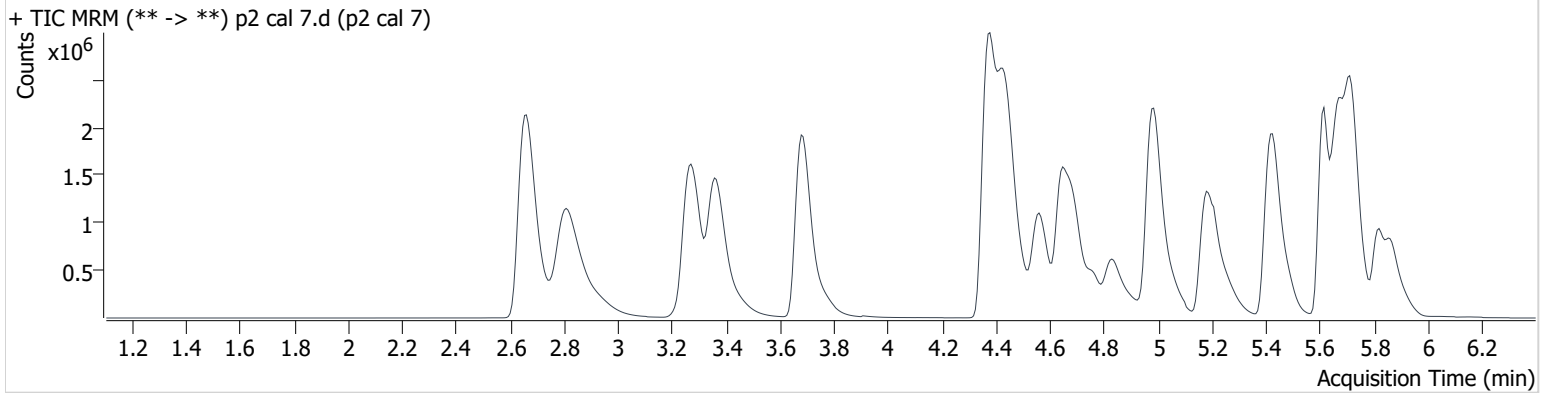
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.686	2077340	46527.8	27.4	3467.9	473044	256.408 ng/ml
alpha-hydroxymidazolam	5.817	1067964	3807.0	52.9	2198.0	227559	267.215 ng/ml
Chlordiazepoxide	5.866	328855	11209.0	87.7	4291.8	290792	130.904 ng/ml
Etizolam	5.817	665735	249733.5	23.9	131816.3	25493	265.171 ng/ml
Levamisole	2.819	3140517	183550.5	85.4	125922.0	1399863	219.235 ng/ml
MDA	3.273	4107302	7137.8	26.8	85060.6	477517	268.739 ng/ml
MDMA	3.365	3099581	291059.8	84.6	111872.5	126746	248.956 ng/ml
Midazolam	5.859	581828	560.8	92.6	3299.9	290792	251.377 ng/ml
Nortriptyline	5.733	953849	8536.8	71.8	3364.4	146697	250.370 ng/ml
Phenytion	5.495	67321	1063.0	74.7	979.6	12293	268.838 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 7.d
Type	Cal	Sample	p2 cal 7
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-G5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 6:29:24 AM		

Sample Chromatogram



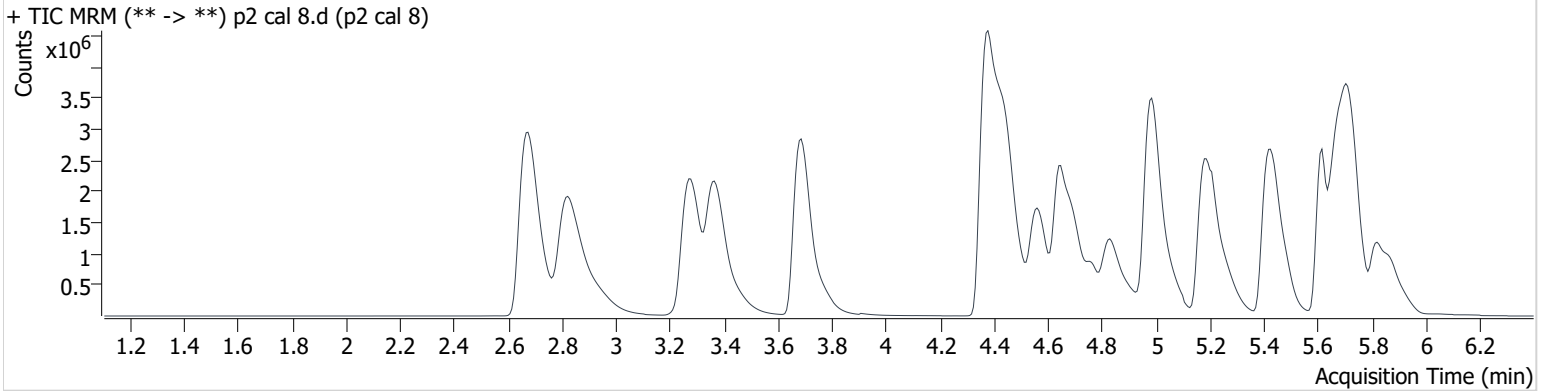
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.686	2655957	47119.9	27.0	2126.7	305560	508.732 ng/ml
alpha-hydroxymidazolam	5.817	1179079	1453.4	53.4	2706.5	130757	515.292 ng/ml
Chlordiazepoxide	5.866	380798	7548.3	86.8	437.9	166450	266.399 ng/ml
Etizolam	5.817	767556	3888.5	24.0	8628.7	15290	509.513 ng/ml
Levamisole	2.806	3960330	87764.1	85.7	73940.7	797654	484.564 ng/ml
MDA	3.273	4598334	59982.7	26.8	35057.6	270089	533.764 ng/ml
MDMA	3.365	3417882	70326.2	84.8	469458.4	69509	500.679 ng/ml
Midazolam	5.859	654095	12472.2	94.7	13823.5	166450	493.676 ng/ml
Nortriptyline	5.727	446124	3603.7	71.7	2978.7	34172	502.487 ng/ml
Phenytion	5.495	88608	6884.3	76.3	3199.7	8330	521.289 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 4-17-2020\QuantResults\mdqp2a.batch.bin
Calibration Last Update 4/19/2020 7:44:49 PM

Instrument	69679	Data File	p2 cal 8.d
Type	Cal	Sample	p2 cal 8
Acq. Method	am 28 p2.m	Operator	Britany Wylie
Sample Position	P2-H5	Comment	
Injection Volume	2.5		
Acq. Date-Time	4/18/2020 6:50:53 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoflunitrazepam	4.686	4163989	83455.4	26.9	45146.0	249886	976.426 ng/ml
alpha-hydroxymidazolam	5.817	1537948	71171.1	54.0	4101.0	92314	953.740 ng/ml
Chlordiazepoxide	5.873	432836	10974.4	89.8	3909.6	126238	400.034 ng/ml
Etizolam	5.817	991948	73461.4	24.2	87891.9	10303	977.003 ng/ml
Levamisole	2.819	6712730	307028.6	85.5	269699.8	627160	1044.018 ng/ml
MDA	3.279	6103033	94678.1	26.6	89388.7	204952	934.979 ng/ml
MDMA	3.365	5673961	263368.5	84.5	7221.1	57764	1000.277 ng/ml
Midazolam	5.859	1010206	42874.7	93.5	30855.4	126238	1005.289 ng/ml
Nortriptyline	5.733	998337	1688.5	73.1	8748.0	38441	999.370 ng/ml
Phenytion	5.495	128500	6000.2	76.5	5559.4	5476	1148.853 ng/ml