



8/15/2024

Worklist: 6897**REVIEWED***By Britany Wylie at 8:20 am, Aug 16, 2024*

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-1393	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1394	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1412	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1436	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1447	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1453	4	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1508	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1568	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 08/13/24

Plate lot#: 240528

Mobile phase A: 5mM Amm Form + 0.01% FA

Blank Blood Lot: 24C52043

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

Analyst: Anne Nord

Plate Retest Date: 11/28/2024

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Urine Lot: blood run only

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.

Analytic:

- ☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☒ 2. **Urine Hydrolysis:** In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.
- ☒ 3. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate. **Pipette ID: 390993**
- ☒ 4. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- ☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☒ 6. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: 250
- ☒ 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).**
- ☒ 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 75401 and evaporate to dryness at approx. 35°C. ☒ **If run contains urine or at the analyst's discretion, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional).**
- ☒ 16. Reconstitute in **100µL 20% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

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% (tramadol RT +/-2%), 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:

Compounds evaluated	Limitations
7-aminoclonazepam	
Amphetamine	5-500 calibrator 8 dropped due to accuracy
Buprenorphine	
Bupropion	
Clonazepam	25-1000 calibrator 1 and 2 dropped due to poor peak shape and ratio of 10ng QC and calibrator
EDDP	



Fentanyl	
Fluoxetine	
Methadone	
Methamphetamine	5-500 calibrator 8 dropped due to accuracy
Metoprolol	5-100 calibrator 6,7, and 8 dropped due to accuracy
Norbuprenorphine	Evaluated qualitatively due to accuracy of 1ng QC
Norfentanyl	0.5-50 calibrator 8 dropped due to accuracy
Quetiapine	5-500 calibrator 8 dropped due to accuracy



	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1			negative blood	1412-1						
B	IS + Cal. 2	IS + QC_2			1393-1							
C	IS + Cal. 3	IS + QC_3			1436-1							
D	IS + Cal. 4	IS + QC_4			1394-1							
E	IS + Cal. 5				1447-1							
F	IS + Cal. 6				1453-4							
G	IS + Cal. 7				1508-1							
H	IS + Cal. 8				1568-2							

blank in front

plate position 2

c2024-____-__

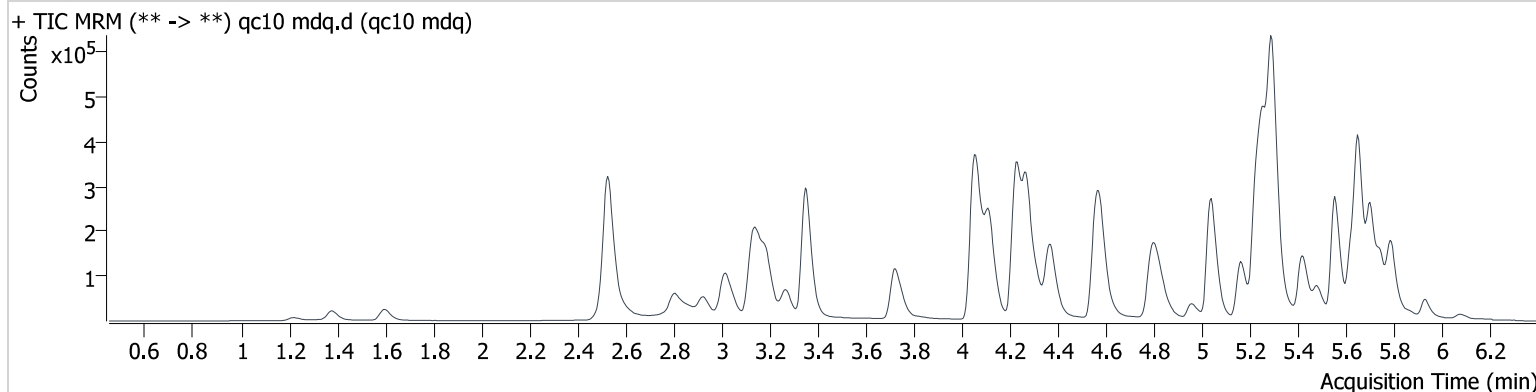
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-A2
Injection Volume 2
Acq. Date-Time 8/13/2024 1:18:30 PM
Sample Info.

Data File qc10 mdq.d
Sample qc10 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	16964	∞	101.96	41665.4	71003	10.926 ng/ml
Amphetamine	3.013	54219	5316.9	252.67	2142.8	149605	10.133 ng/ml
Buprenorphine	6.092	382	52.4	604.14	295.0	29792	1.073 ng/ml
Bupropion	4.826	85614	2174.4	61.73	2875.1	323132	9.359 ng/ml
Clonazepam	5.582	2988	589.3	20.01 Low	1210.0	5612	8.278 ng/ml
EDDP	5.259	90747	3099.5	42.18	1900.1	408444	9.888 ng/ml
Fentanyl	5.174	7264	948.3	132.42	2860.9	380186	0.931 ng/ml
Fluoxetine	5.702	91143	3798.7	6.65	13295.0	324206	10.315 ng/ml
Methadone	5.650	121231	9797.2	49.42	2697.4	505401	9.098 ng/ml
Methamphetamine	3.191	136499	3510.0	36.66	2062.4	494933	9.685 ng/ml
Metoprolol	4.315	16618	25435.8	99.88	1717.4	239942	10.001 ng/ml
Norbuprenorphine	4.992	923	949.4	81.01	4141.5	9470	1.346 ng/ml
Norfentanyl	4.073	4487	318.2	34.93	370.0	552811	0.971 ng/ml
Quetiapine	5.653	92454	47059.0	60.14	172420.2	134859	10.030 ng/ml

AM #28 Multi-Drug Quant. Results

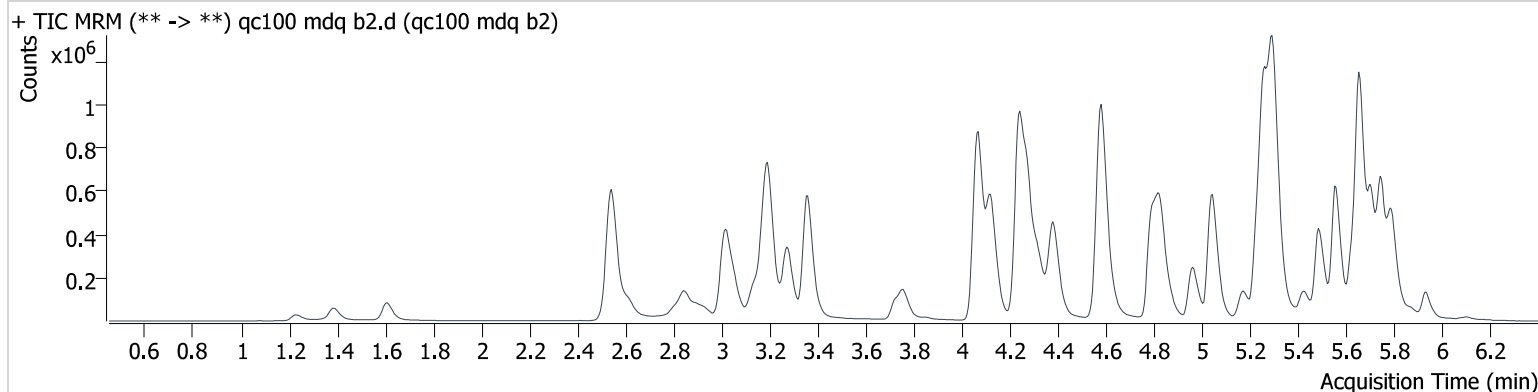
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Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-B2
Injection Volume 2
Acq. Date-Time 8/13/2024 3:54:48 PM
Sample Info.

Data File qc100 mdq b2.d
Sample qc100 mdq b2
Operator Anne Nord
Comment

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	105335	270739.5	109.42	∞	44076	115.636 ng/ml
Amphetamine	3.018	352370	37166.1	265.91	29009.8	105826	106.023 ng/ml
Buprenorphine	6.102	2909	496.3	611.11	2077.4	20052	11.582 ng/ml
Bupropion	4.826	651057	∞	61.50	14489.4	236695	96.125 ng/ml
Clonazepam	5.582	20663	∞	35.45	6580.1	4317	87.910 ng/ml
EDDP	5.259	512708	26215.2	42.17	12900481.6	228753	98.751 ng/ml
Fentanyl	5.179	54959	5215.2	128.46	85644.2	285772	9.283 ng/ml
Fluoxetine	5.707	634225	∞	7.32	1037201.8	219993	107.549 ng/ml
Methadone	5.650	858013	27658.2	52.86	75946.5	361540	90.000 ng/ml
Methamphetamine	3.197	916268	78347.1	36.90	49973.4	370843	106.880 ng/ml
Metoprolol	4.321	92531	264596.6	97.24	∞	165043	91.881 ng/ml
Norbuprenorphine	4.992	4507	13660.6	92.99	21296.1	7123	10.019 ng/ml
Norfentanyl	4.078	32693	2731.4	31.57	1776.5	386701	10.602 ng/ml
Quetiapine	5.653	620348	193783.5	60.43	332378.2	94841	106.118 ng/ml

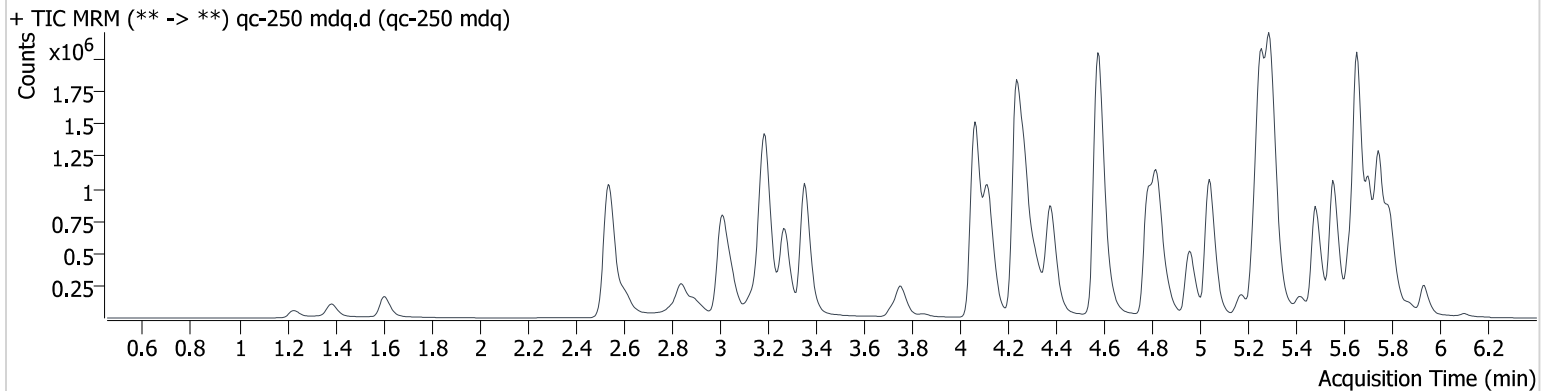
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-C2
Injection Volume 2
Acq. Date-Time 8/13/2024 1:27:11 PM
Sample Info.

Data File qc-250 mdq.d
Sample qc-250 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
7-aminoclonazepam	4.254	185343	21495.3	107.84	∞	33387	269.535	ng/ml
Amphetamine	3.013	714235	11926.5	254.92	30062.8	94800	241.892	ng/ml
Buprenorphine	6.097	5931	888.1	705.38	17174.2	18932	24.951	ng/ml
Bupropion	4.821	1379284	∞	61.39	467485.4	201183	239.428	ng/ml
Clonazepam	5.582	44546	29948.8	37.06	59139.3	3603	229.754	ng/ml
EDDP	5.254	1096752	182420.2	43.18	26415.7	192521	250.828	ng/ml
Fentanyl	5.174	121589	21950.7	130.24	19339.9	245646	23.876	ng/ml
Fluoxetine	5.702	1224781	110246.4	7.64	122580.0	182644	250.420	ng/ml
Methadone	5.650	1824210	35481.5	50.53	16474.6	290608	238.049	ng/ml
Methamphetamine	3.191	1971716	∞	36.24	∞	340764	253.687	ng/ml
Metoprolol	4.315	152936	300460.3	96.32	9298.8	137481	183.821	ng/ml
Norbuprenorphine	4.992	8919	∞	103.83	15268.6	5412	26.468	ng/ml
Norfentanyl	4.073	63920	6516.9	32.53	1418.3	308875	26.026	ng/ml
Quetiapine	5.653	1217616	477471.8	62.18	110903.4	77176	257.686	ng/ml

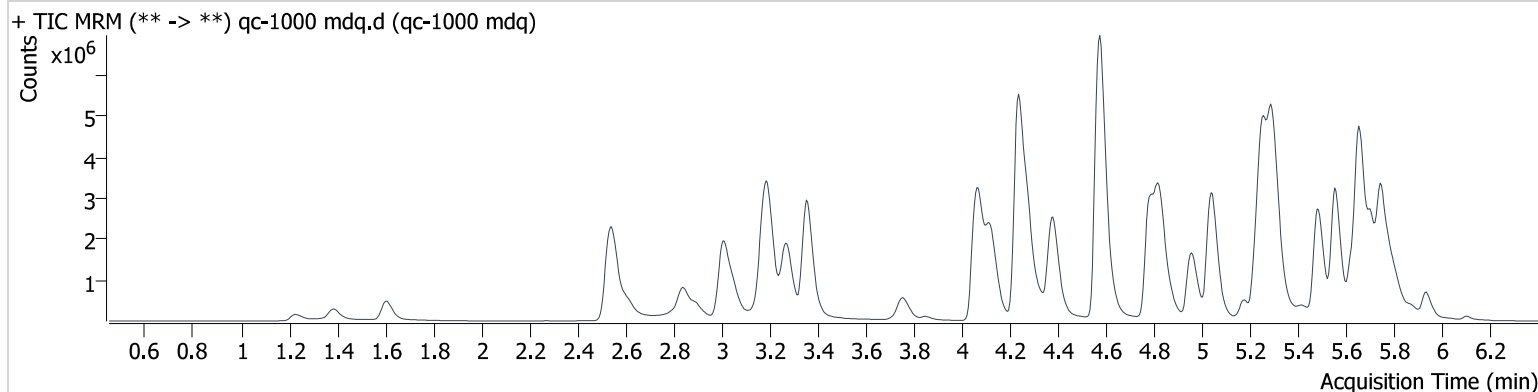
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-D2
Injection Volume 2
Acq. Date-Time 8/13/2024 1:35:51 PM
Sample Info.

Data File qc-1000 mdq.d
Sample qc-1000 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	315790	55564.2	109.71	10595033.3	16247	945.487 ng/ml
Amphetamine	3.007	1779968	122145.0	250.17	652050.7	83195	689.823 ng/ml
Buprenorphine	6.097	25535	2267.8	602.57	35573.1	19199	105.743 ng/ml
Bupropion	4.821	4342801	358156.0	60.38	285405.6	156185	970.710 ng/ml
Clonazepam	5.587	142689	220515.8	35.42	87249.8	2792	955.033 ng/ml
EDDP	5.254	3896346	∞	44.07	659840.0	173899	986.202 ng/ml
Fentanyl	5.174	477284	98386.8	134.88	83412.0	250938	91.718 ng/ml
Fluoxetine	5.702	3316457	1120267.1	7.41	∞	118884	1042.360 ng/ml
Methadone	5.650	5864889	226777.6	48.37	127714.3	228524	973.252 ng/ml
Methamphetamine	3.191	5520901	511657.8	37.29	15095.6	335921	725.227 ng/ml
Metoprolol	4.315	323536	5068863.6	96.75	∞	92108	583.758 ng/ml
Norbuprenorphine	4.997	31159	53977.1	97.72	53691.2	4860	103.636 ng/ml
Norfentanyl	4.078	126893	47322.9	33.69	12513.7	198945	80.323 ng/ml
Quetiapine	5.658	2393315	1001169.4	66.12	694923.5	60878	643.916 ng/ml

[Signature]

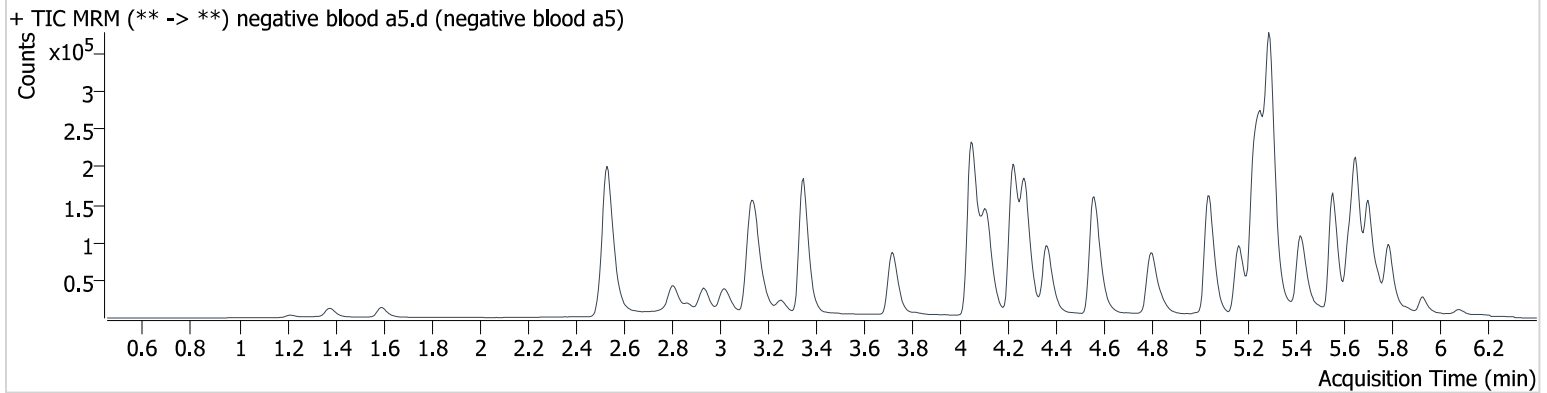
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-A5
Injection Volume 2
Acq. Date-Time 8/13/2024 1:53:13 PM
Sample Info.

Data File negative blood a5.d
Sample negative blood a5
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

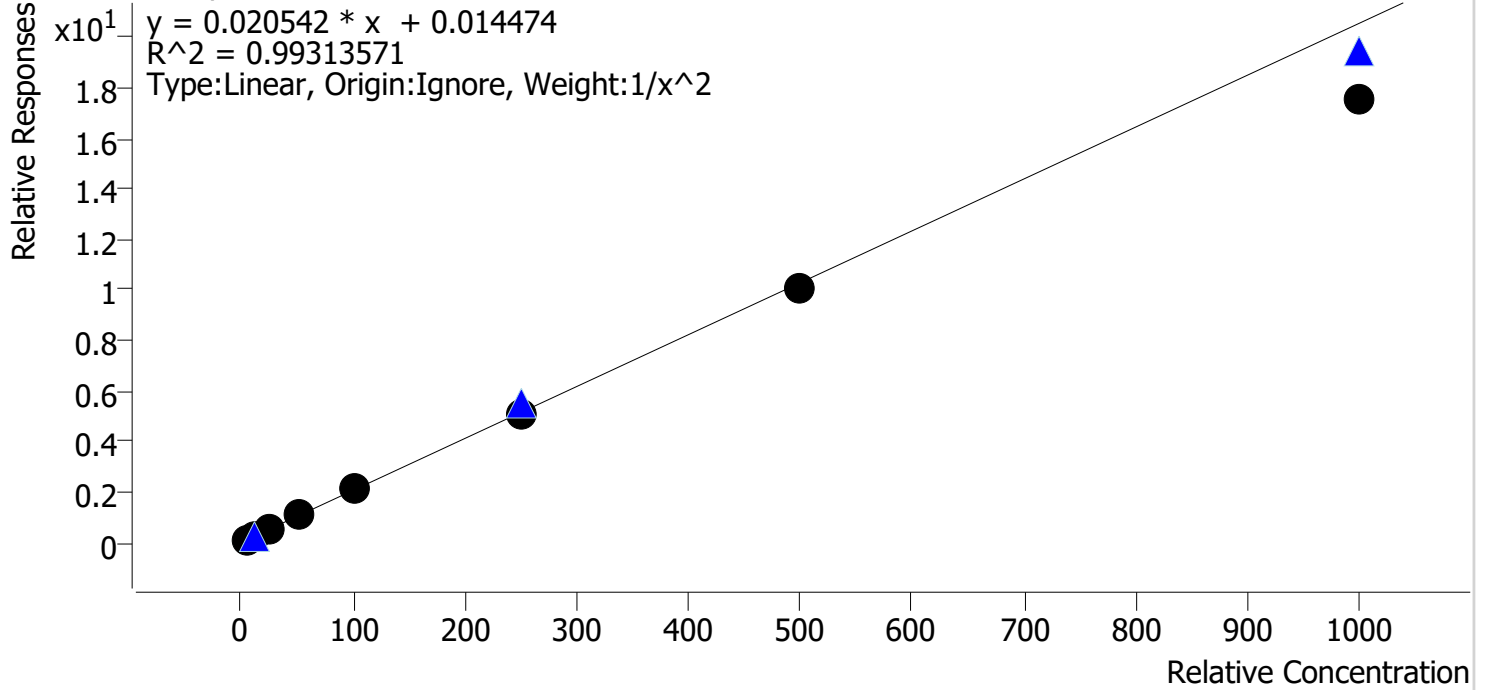
Sample Chromatogram



Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

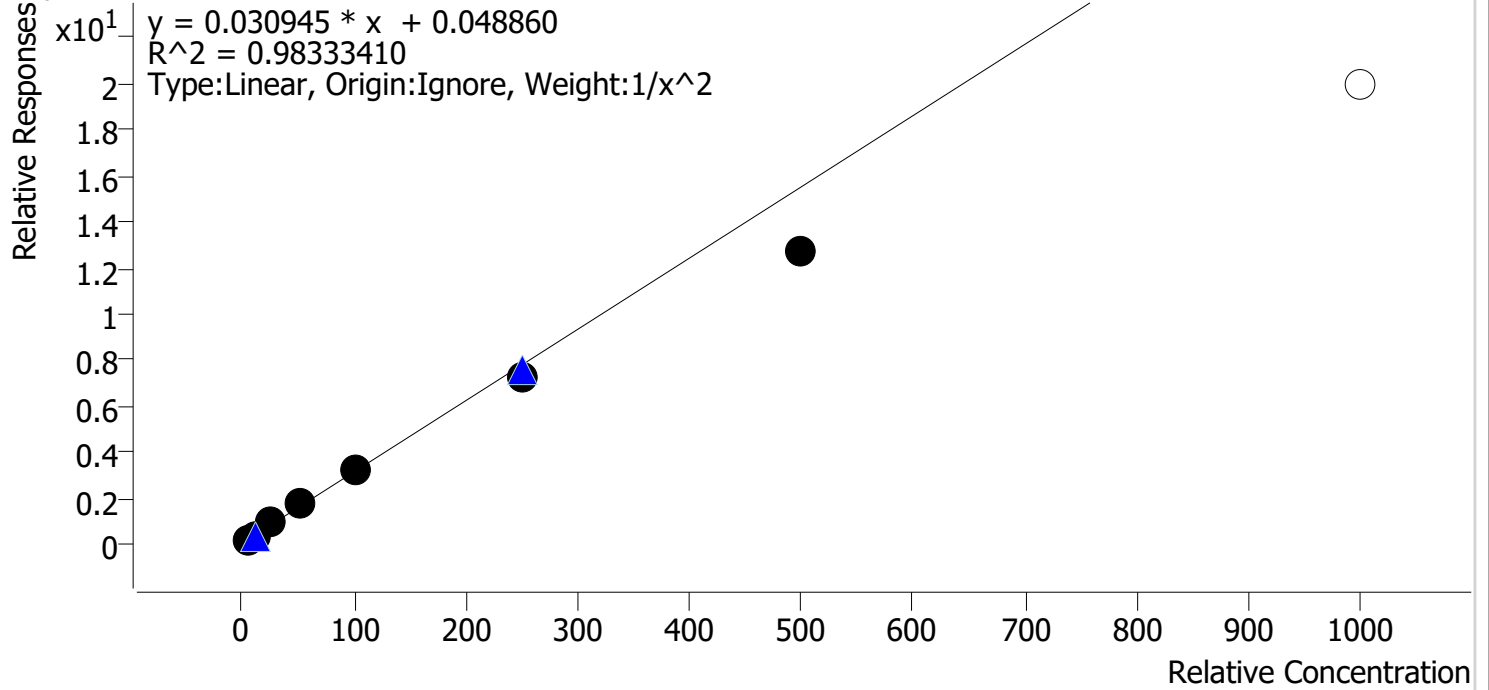


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.2
cal 2 mdq	2	✓	10.0	10.6	105.7
cal 3 mdq	3	✓	25.0	26.7	106.7
cal 4 mdq	4	✓	50.0	52.7	105.4
cal 5 mdq	5	✓	100.0	104.3	104.3
cal 6 mdq	6	✓	250.0	248.2	99.3
cal 7 mdq	7	✓	500.0	489.9	98.0
cal 8 mdq	8	✓	1000.0	854.6	85.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

Amphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

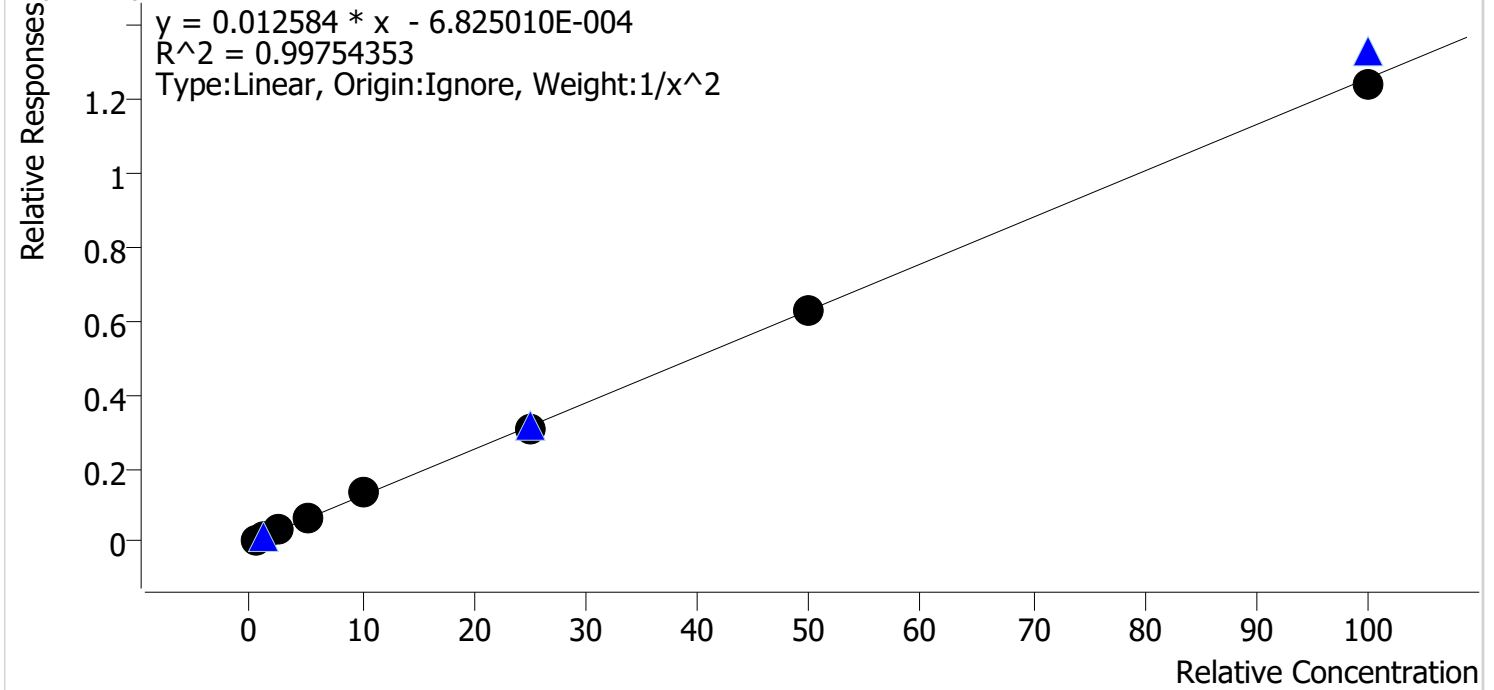


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	93.6
cal 2 mdq	2	✓	10.0	10.7	106.8
cal 3 mdq	3	✓	25.0	27.6	110.3
cal 4 mdq	4	✓	50.0	55.5	111.0
cal 5 mdq	5	✓	100.0	104.0	104.0
cal 6 mdq	6	✓	250.0	232.1	92.8
cal 7 mdq	7	✓	500.0	407.3	81.5
cal 8 mdq	8	✗	1000.0	646.0	64.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

Buprenorphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

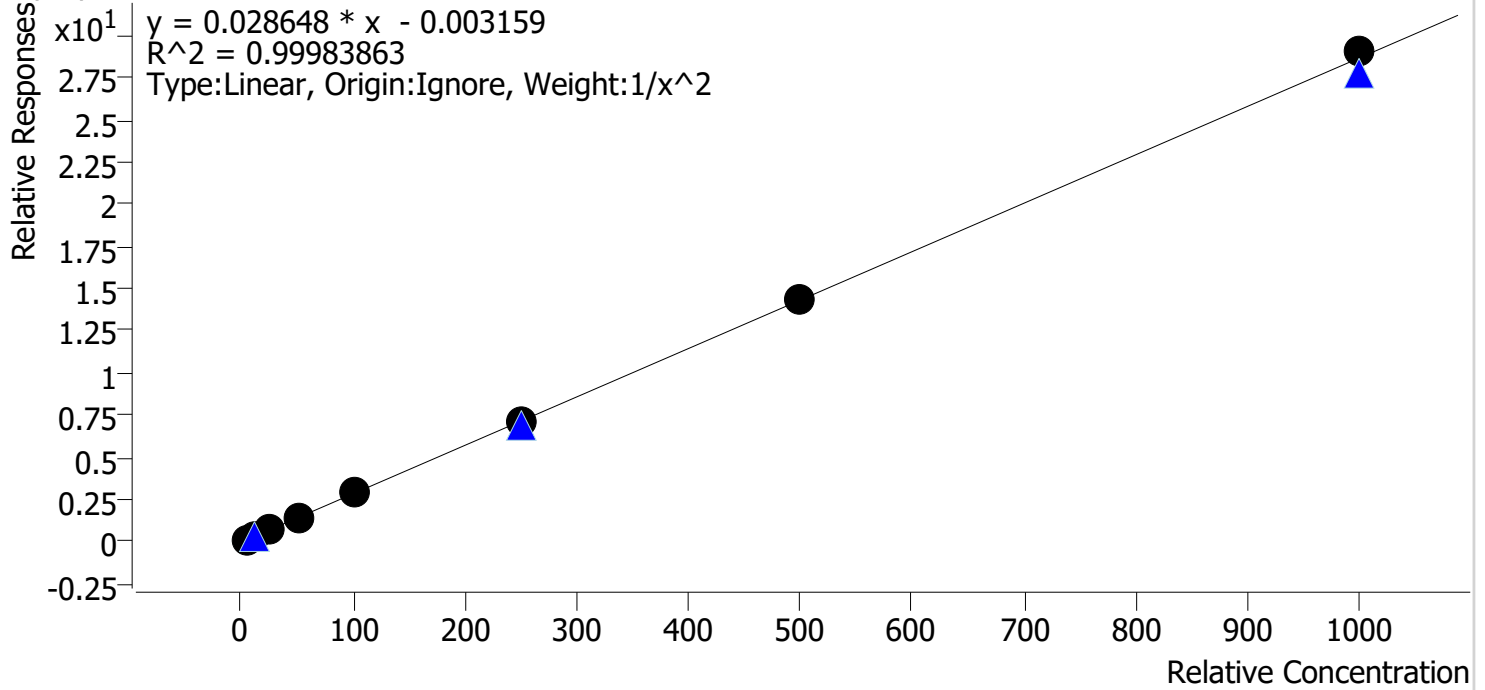


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	103.4
cal 2 mdq	2	✓	1.0	0.9	91.8
cal 3 mdq	3	✓	2.5	2.5	101.6
cal 4 mdq	4	✓	5.0	5.1	101.6
cal 5 mdq	5	✓	10.0	10.6	105.8
cal 6 mdq	6	✓	25.0	24.3	97.0
cal 7 mdq	7	✓	50.0	50.3	100.5
cal 8 mdq	8	✓	100.0	98.3	98.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

Bupropion - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

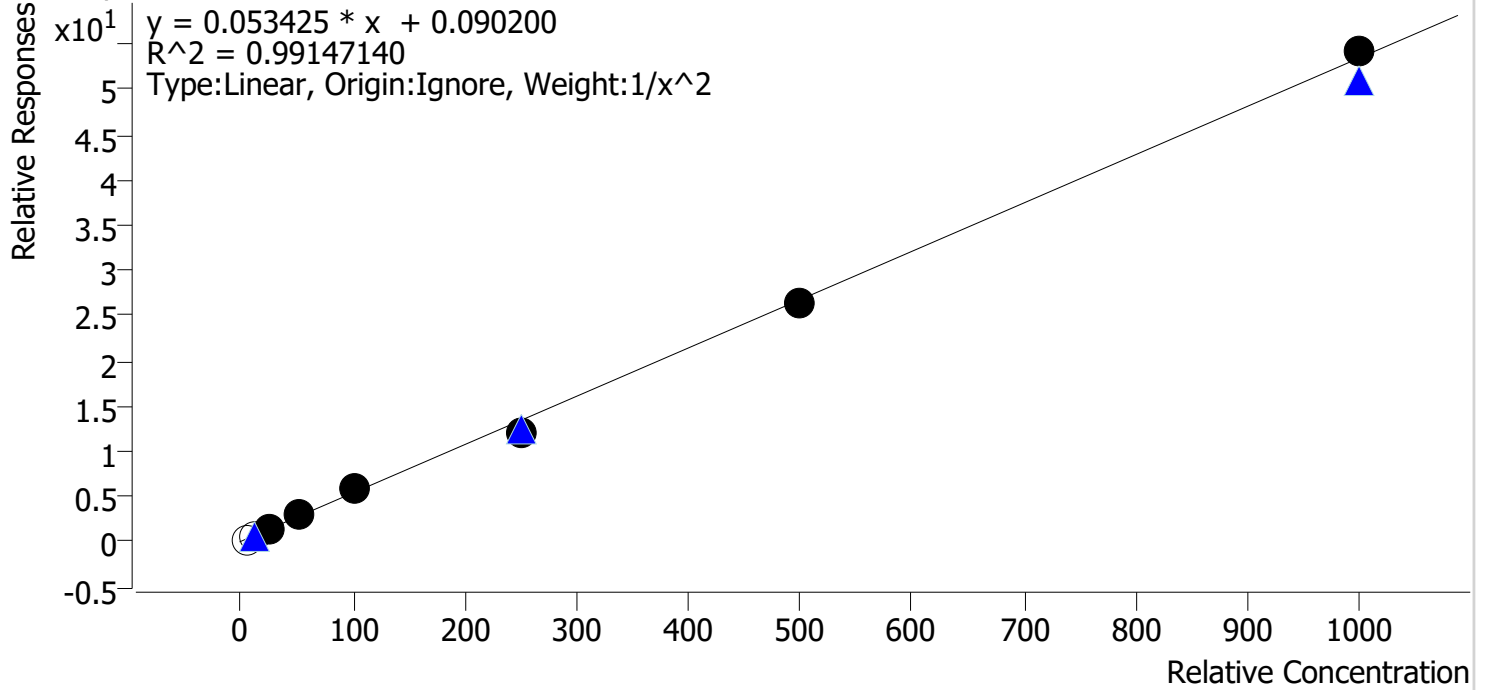


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.7
cal 2 mdq	2	✓	10.0	9.9	99.3
cal 3 mdq	3	✓	25.0	24.7	98.6
cal 4 mdq	4	✓	50.0	49.2	98.3
cal 5 mdq	5	✓	100.0	100.9	100.9
cal 6 mdq	6	✓	250.0	251.2	100.5
cal 7 mdq	7	✓	500.0	501.7	100.3
cal 8 mdq	8	✓	1000.0	1013.3	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

Clonazepam - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 3 QCs

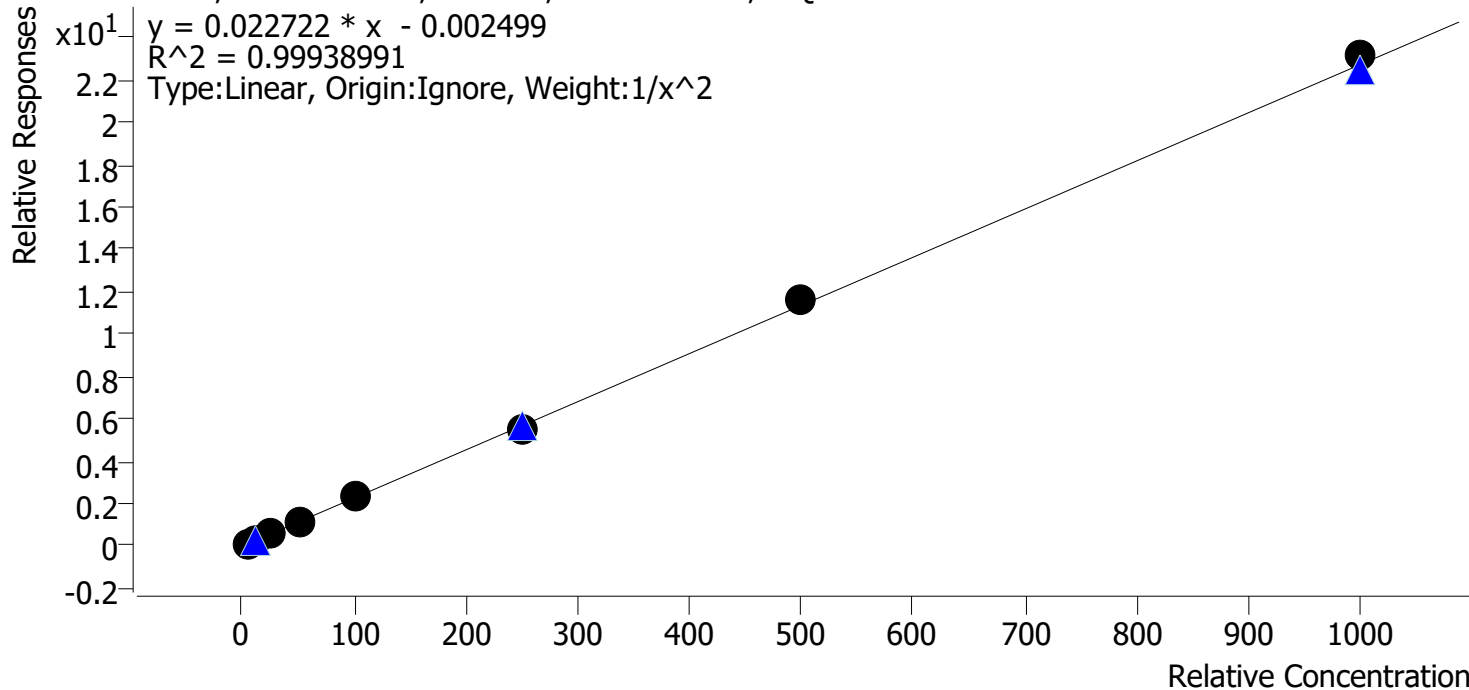


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	5.0	2.9	58.1
cal 2 mdq	2	x	10.0	7.8	78.3
cal 3 mdq	3	✓	25.0	24.0	96.1
cal 4 mdq	4	✓	50.0	52.6	105.1
cal 5 mdq	5	✓	100.0	109.9	109.9
cal 6 mdq	6	✓	250.0	221.0	88.4
cal 7 mdq	7	✓	500.0	495.6	99.1
cal 8 mdq	8	✓	1000.0	1013.4	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

EDDP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

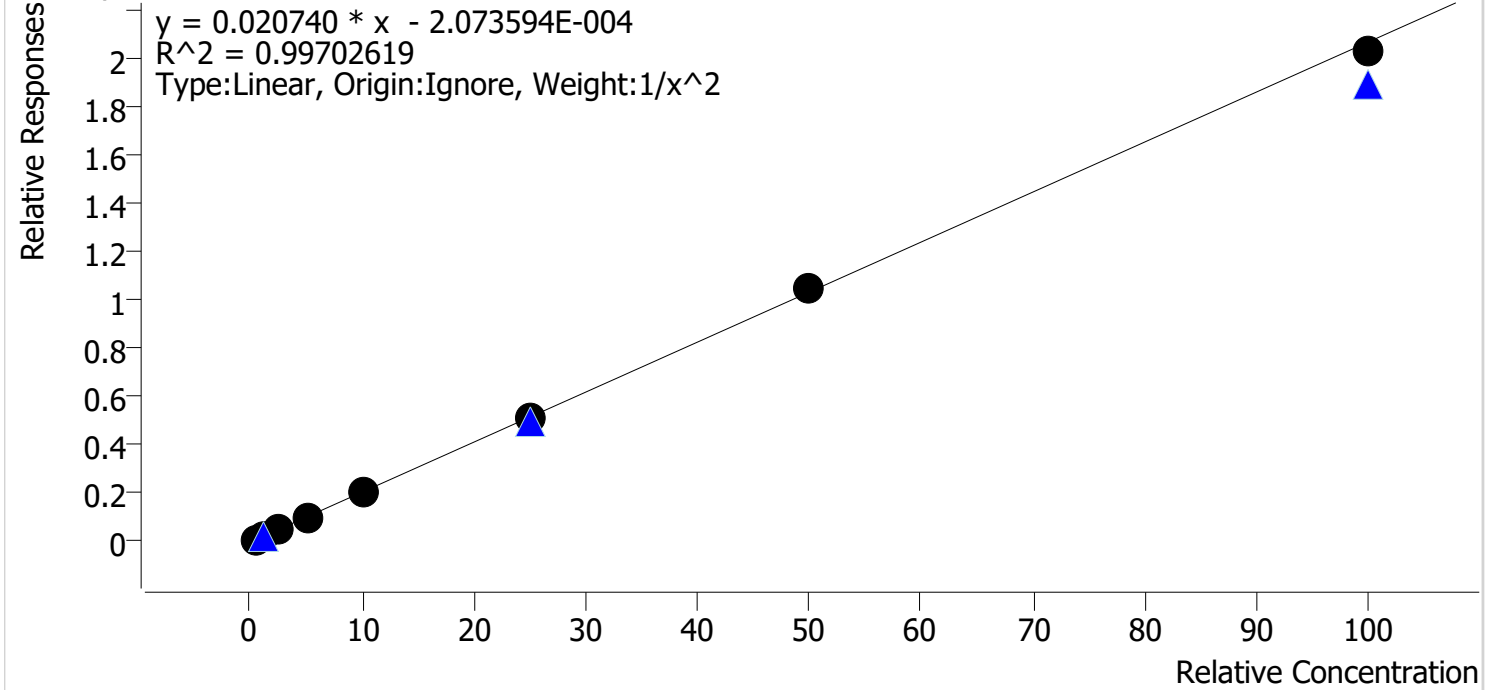


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.8
cal 2 mdq	2	✓	10.0	9.6	96.3
cal 3 mdq	3	✓	25.0	25.2	100.8
cal 4 mdq	4	✓	50.0	49.7	99.5
cal 5 mdq	5	✓	100.0	100.1	100.1
cal 6 mdq	6	✓	250.0	243.8	97.5
cal 7 mdq	7	✓	500.0	511.1	102.2
cal 8 mdq	8	✓	1000.0	1018.8	101.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

Fentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

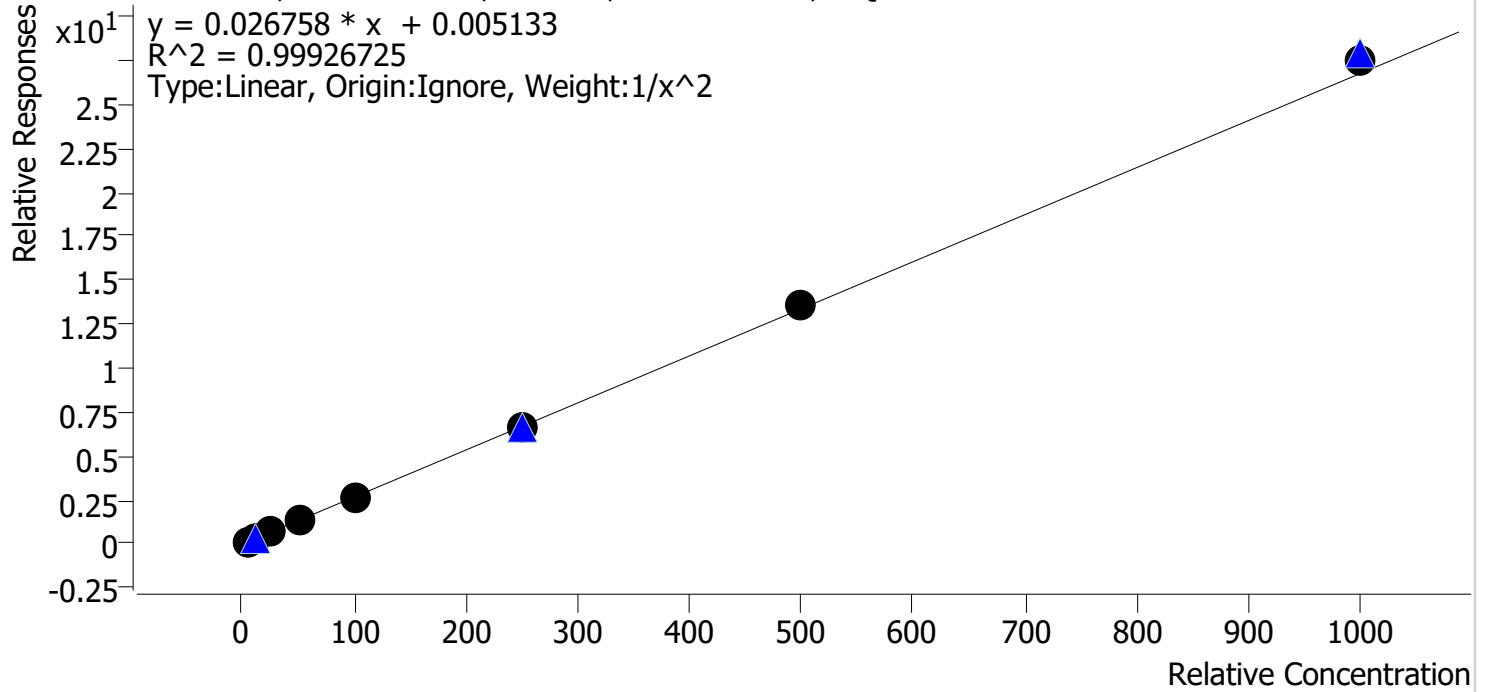


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	95.4
cal 2 mdq	2	✓	1.0	1.1	110.9
cal 3 mdq	3	✓	2.5	2.4	96.7
cal 4 mdq	4	✓	5.0	5.0	99.4
cal 5 mdq	5	✓	10.0	9.9	98.8
cal 6 mdq	6	✓	25.0	24.9	99.5
cal 7 mdq	7	✓	50.0	50.6	101.3
cal 8 mdq	8	✓	100.0	98.1	98.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

Fluoxetine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

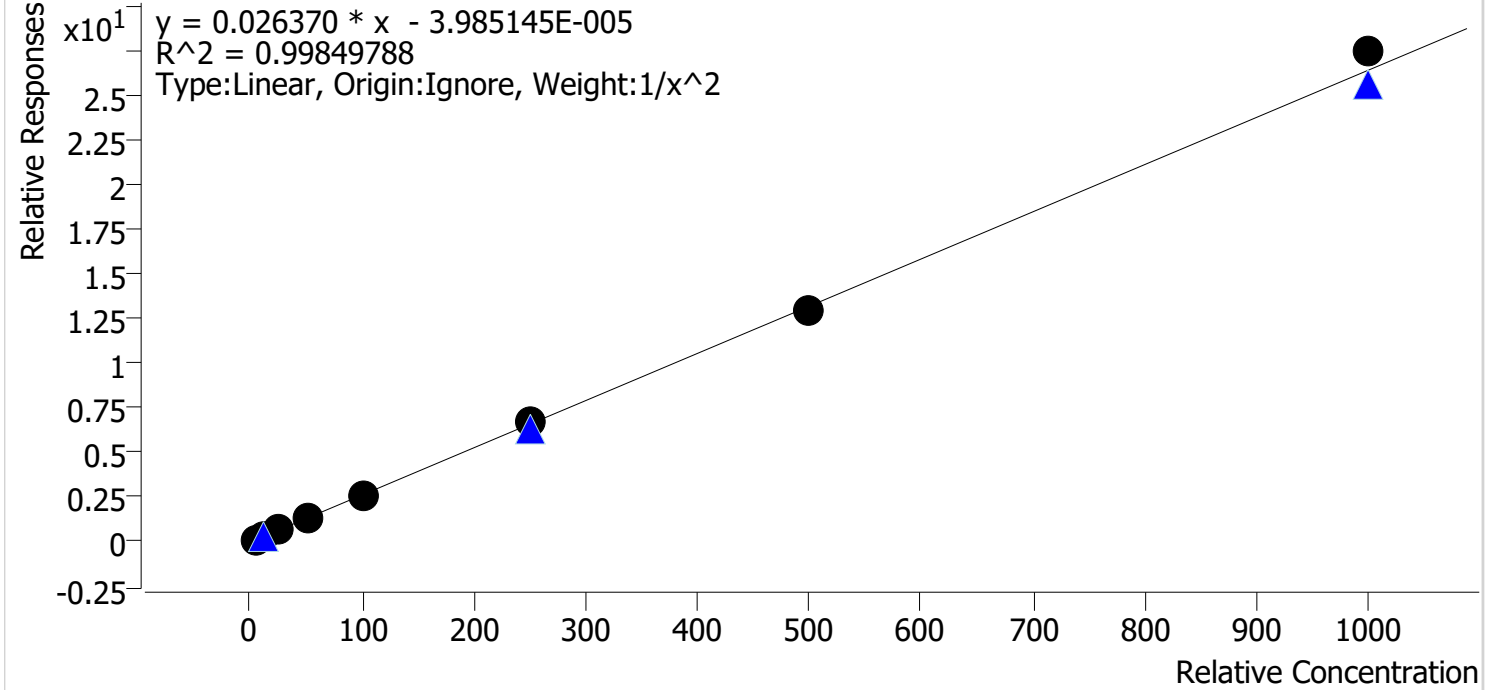


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.9
cal 2 mdq	2	✓	10.0	9.8	98.3
cal 3 mdq	3	✓	25.0	25.3	101.3
cal 4 mdq	4	✓	50.0	47.9	95.7
cal 5 mdq	5	✓	100.0	101.6	101.6
cal 6 mdq	6	✓	250.0	245.2	98.1
cal 7 mdq	7	✓	500.0	506.9	101.4
cal 8 mdq	8	✓	1000.0	1026.6	102.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

Methadone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

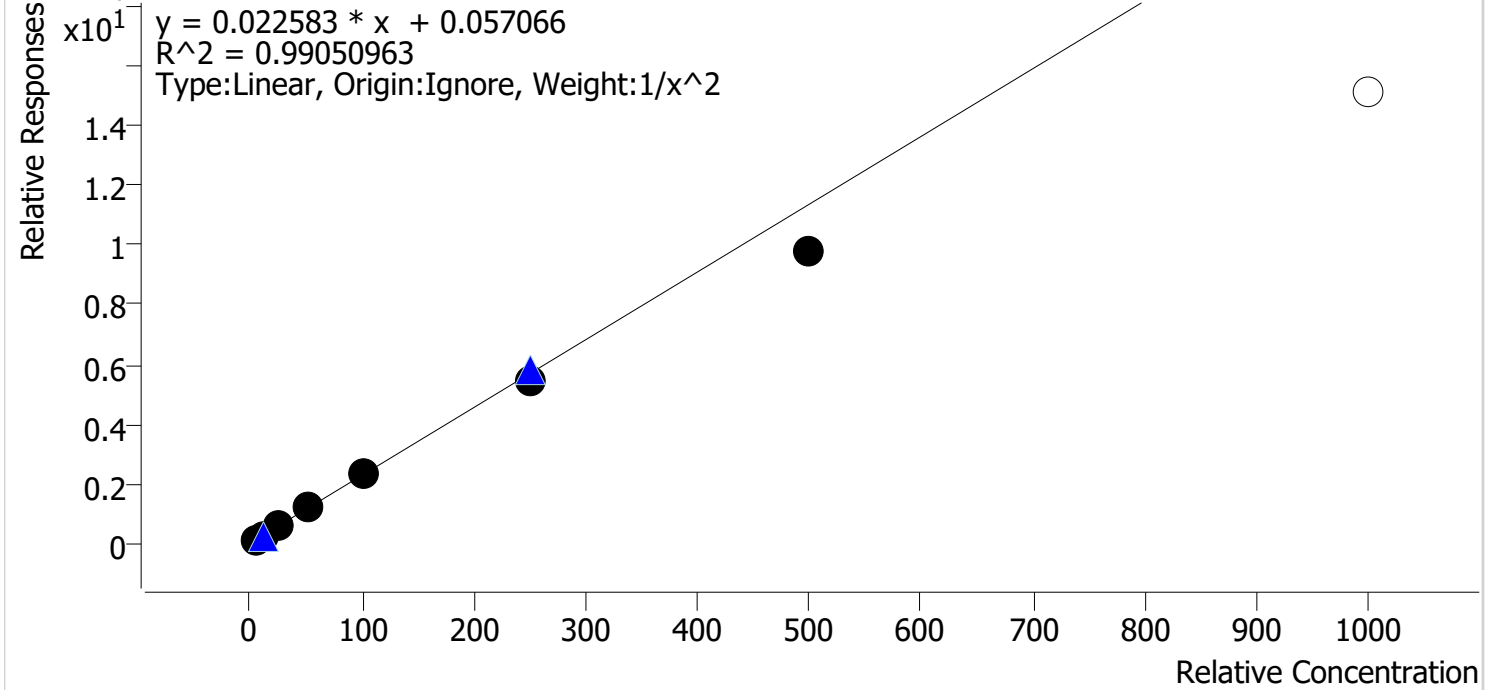


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.6
cal 2 mdq	2	✓	10.0	9.9	99.4
cal 3 mdq	3	✓	25.0	23.4	93.8
cal 4 mdq	4	✓	50.0	48.8	97.6
cal 5 mdq	5	✓	100.0	101.4	101.4
cal 6 mdq	6	✓	250.0	258.8	103.5
cal 7 mdq	7	✓	500.0	493.1	98.6
cal 8 mdq	8	✓	1000.0	1039.6	104.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

Methamphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

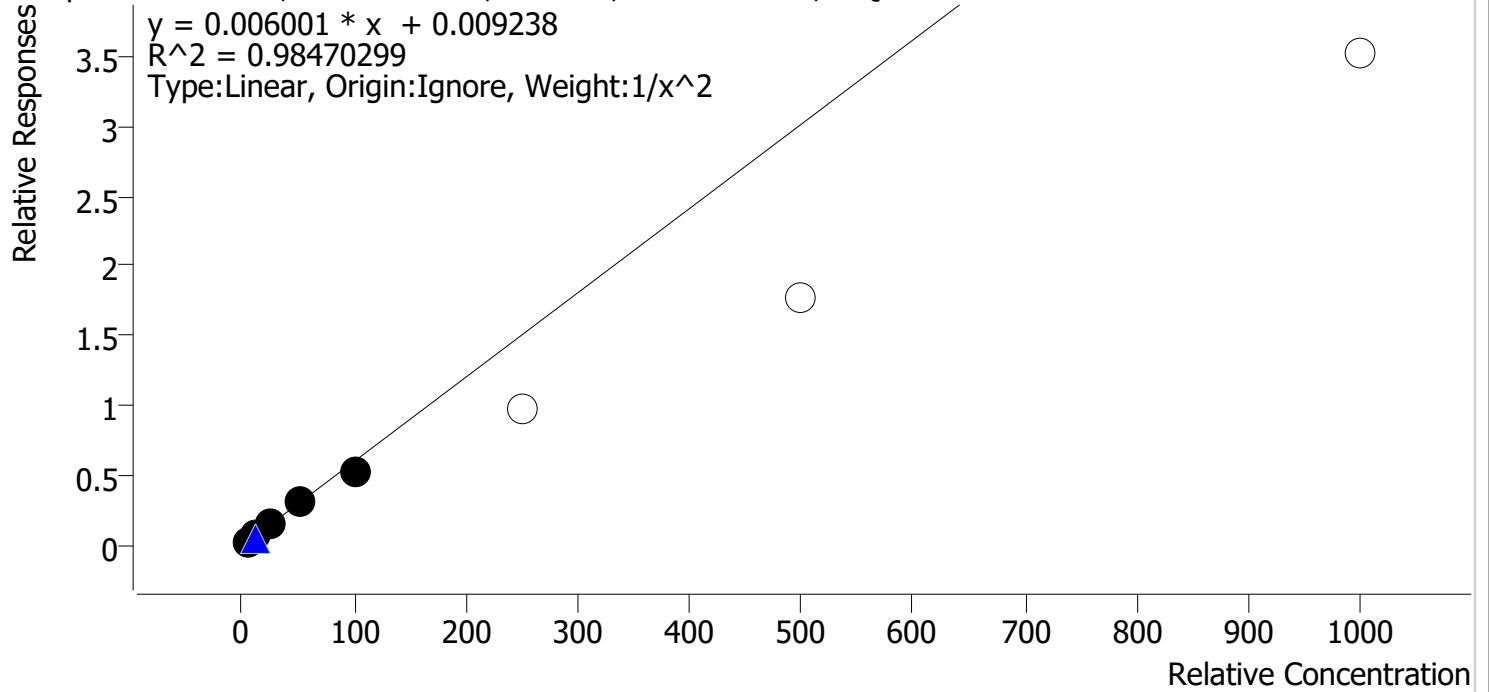


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.7
cal 2 mdq	2	✓	10.0	10.3	103.1
cal 3 mdq	3	✓	25.0	27.9	111.5
cal 4 mdq	4	✓	50.0	52.2	104.4
cal 5 mdq	5	✓	100.0	104.2	104.2
cal 6 mdq	6	✓	250.0	236.8	94.7
cal 7 mdq	7	✓	500.0	431.8	86.4
cal 8 mdq	8	✗	1000.0	665.6	66.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Ketamine-D4

Metoprolol - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 3 QCs

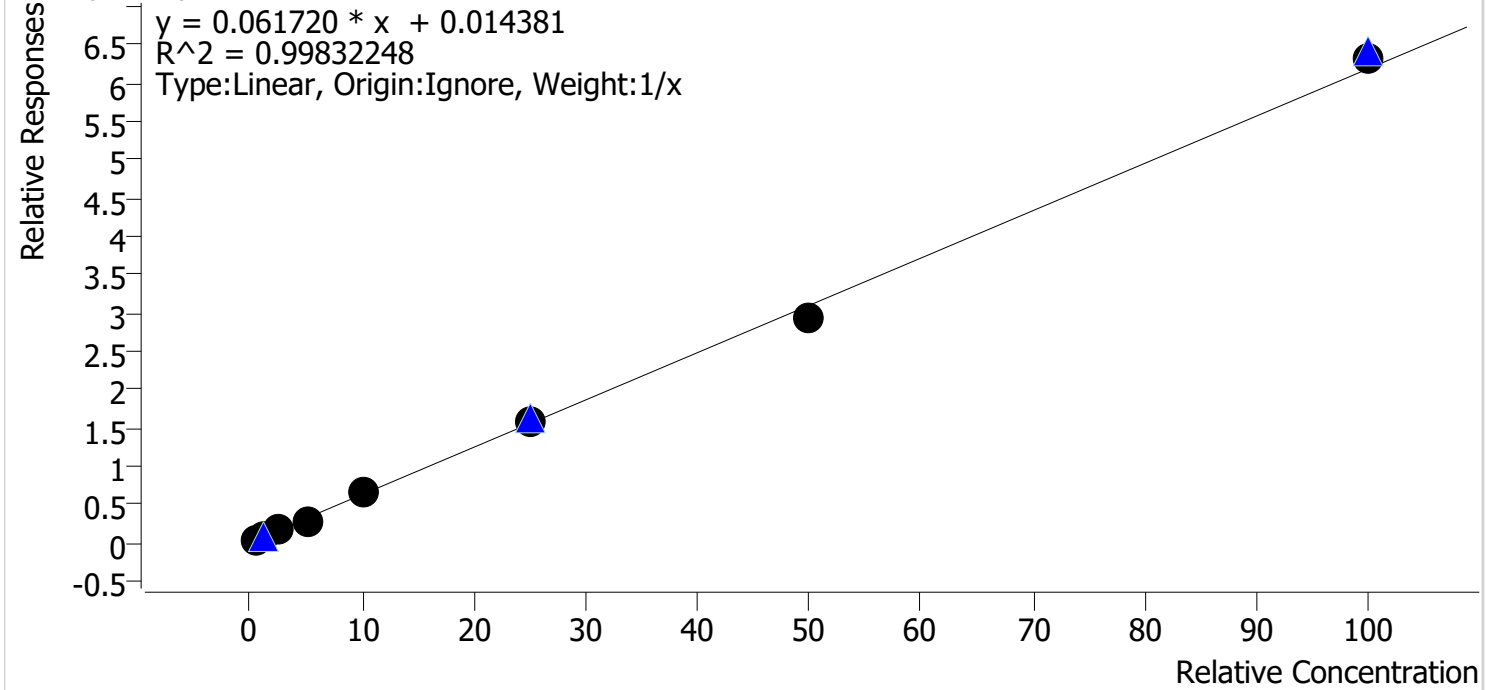


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	94.9
cal 2 mdq	2	✓	10.0	10.7	107.2
cal 3 mdq	3	✓	25.0	27.6	110.4
cal 4 mdq	4	✓	50.0	50.5	100.9
cal 5 mdq	5	✓	100.0	86.6	86.6
cal 6 mdq	6	✗	250.0	162.5	65.0
cal 7 mdq	7	✗	500.0	293.1	58.6
cal 8 mdq	8	✗	1000.0	583.2	58.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

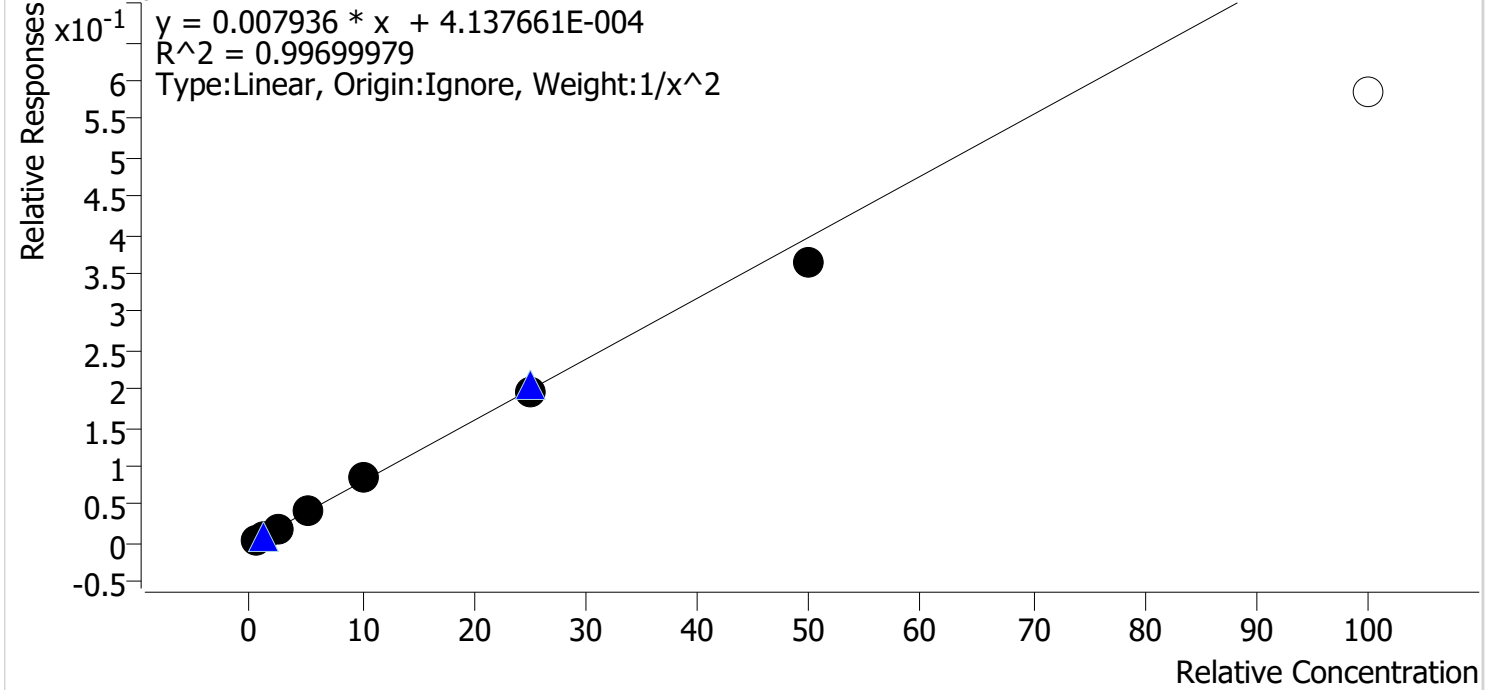


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.4	89.4
cal 2 mdq	2	✓	1.0	1.2	117.9
cal 3 mdq	3	✓	2.5	2.5	100.3
cal 4 mdq	4	✓	5.0	4.6	91.3
cal 5 mdq	5	✓	10.0	10.2	102.0
cal 6 mdq	6	✓	25.0	25.5	102.2
cal 7 mdq	7	✓	50.0	47.2	94.5
cal 8 mdq	8	✓	100.0	102.3	102.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

Norfentanyl - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs

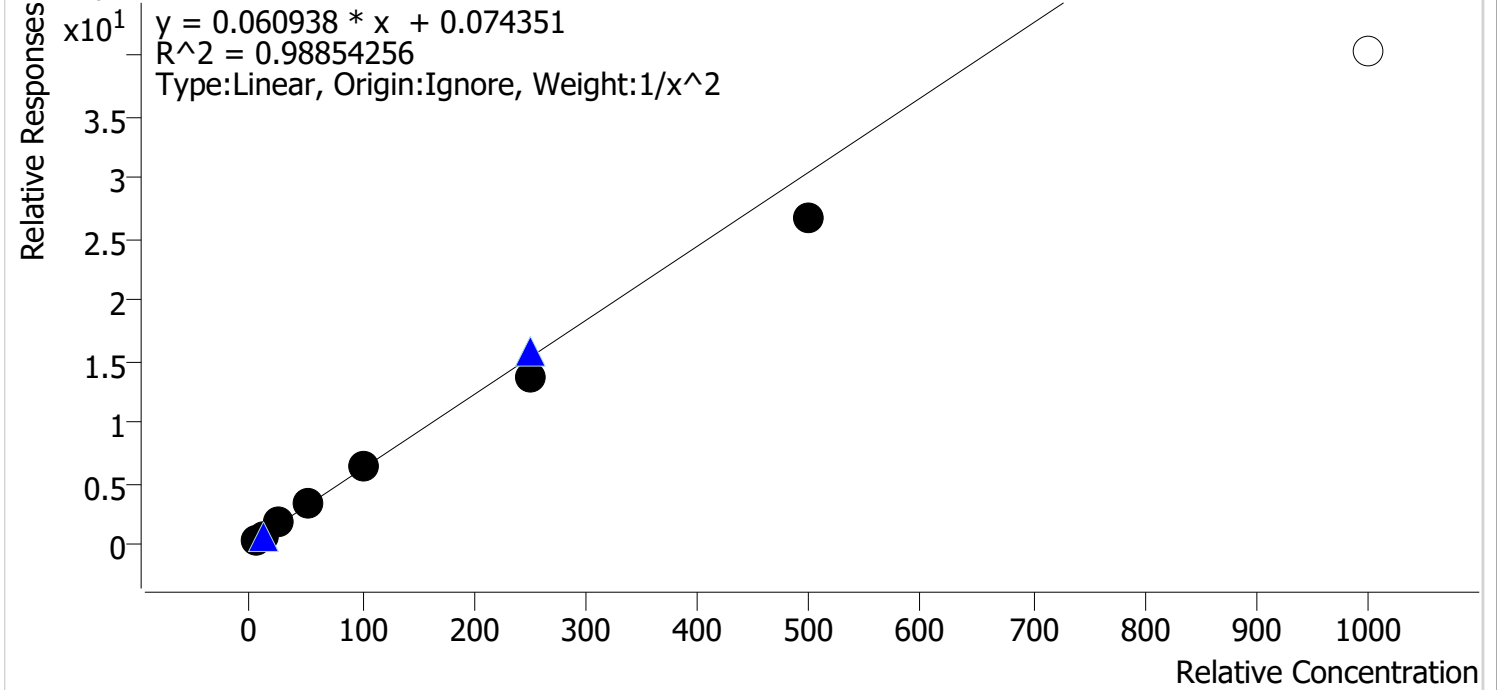


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	98.9
cal 2 mdq	2	✓	1.0	1.0	101.1
cal 3 mdq	3	✓	2.5	2.5	99.8
cal 4 mdq	4	✓	5.0	5.2	104.6
cal 5 mdq	5	✓	10.0	10.6	105.6
cal 6 mdq	6	✓	25.0	24.6	98.5
cal 7 mdq	7	✓	50.0	45.8	91.5
cal 8 mdq	8	x	100.0	73.7	73.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 8/13/2024 4:26 PM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

Quetiapine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	95.0
cal 2 mdq	2	✓	10.0	10.5	104.6
cal 3 mdq	3	✓	25.0	27.6	110.4
cal 4 mdq	4	✓	50.0	53.8	107.5
cal 5 mdq	5	✓	100.0	105.3	105.3
cal 6 mdq	6	✓	250.0	223.4	89.4
cal 7 mdq	7	✓	500.0	439.7	87.9
cal 8 mdq	8	x	1000.0	661.8	66.2

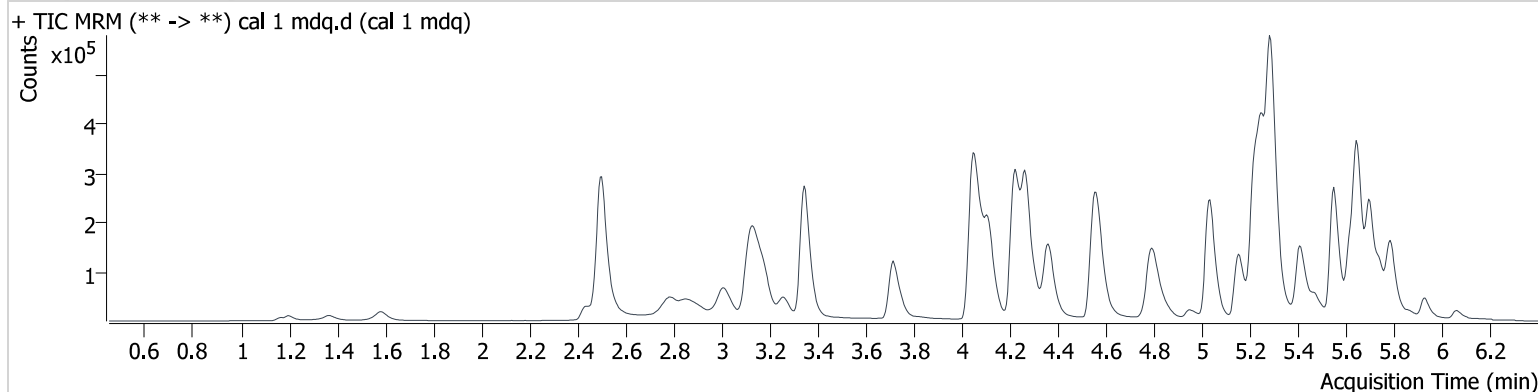
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-A1
Injection Volume 2
Acq. Date-Time 8/13/2024 11:51:35 AM
Sample Info.

Data File cal 1 mdq.d
Sample cal 1 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	8629	47702.7	112.12	55756.1	76895	4.759 ng/ml
Amphetamine	2.992	29941	1093.2	255.47	3980.3	154632	4.678 ng/ml
Buprenorphine	6.081	259	12.0	639.41	63.8	44421	0.517 ng/ml
Bupropion	4.816	45971	17348.9	63.66	3072.9	325797	5.036 ng/ml
Clonazepam	5.582	1469	∞	40.89	1082.5	5985	2.907 ng/ml
EDDP	5.248	51201	3071.2	43.25	3359.1	452654	5.088 ng/ml
Fentanyl	5.169	3818	598.9	140.83	964.1	394419	0.477 ng/ml
Fluoxetine	5.702	46609	5202.6	6.95	∞	332484	5.047 ng/ml
Methadone	5.645	69826	27248.5	50.97	∞	521342	5.081 ng/ml
Methamphetamine	3.181	83946	974.8	37.68	628.3	508251	4.787 ng/ml
Metoprolol	4.310	9073	∞	97.63	∞	240614	4.744 ng/ml
Norbuprenorphine	4.987	396	688.4	87.92	1687.8	9436	0.447 ng/ml
Norfentanyl	4.068	2389	335.4	28.87	71.6	551044	0.494 ng/ml
Quetiapine	5.648	51325	34899.2	62.40	6578.6	141130	4.748 ng/ml

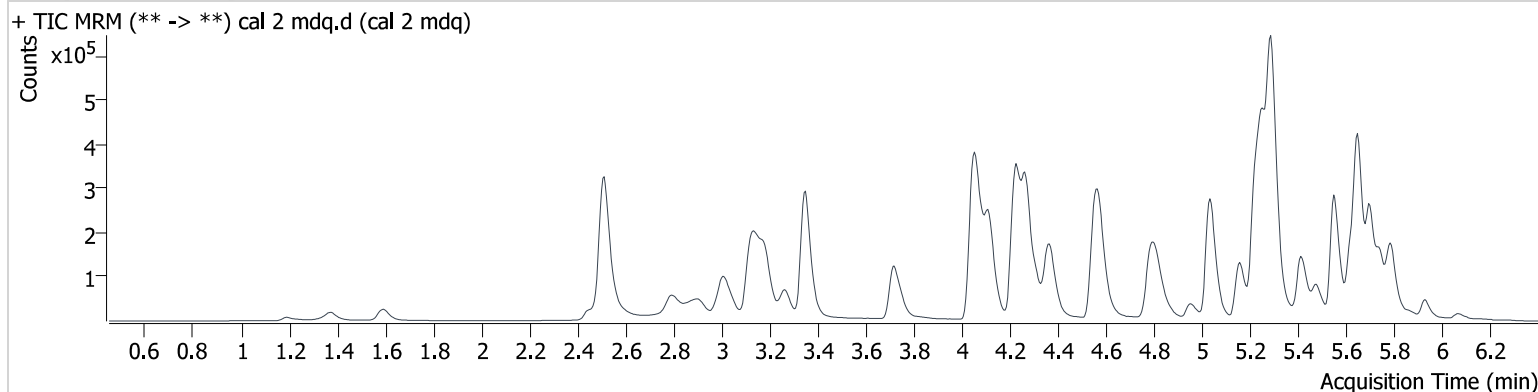
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-B1
Injection Volume 2
Acq. Date-Time 8/13/2024 12:00:25 PM
Sample Info.

Data File cal 2 mdq.d
Sample cal 2 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	16668	∞	108.02	∞	71988	10.567 ng/ml
Amphetamine	3.002	59059	1999.7	249.75	5958.8	155689	10.680 ng/ml
Buprenorphine	6.092	360	37.2	715.02	215.7	33104	0.918 ng/ml
Bupropion	4.816	91162	4144.1	63.25	2631.3	323968	9.933 ng/ml
Clonazepam	5.587	2805	5296.8	43.70 High	4639.5	5514	7.834 ng/ml
EDDP	5.254	88565	19447.3	43.68	97104.0	409408	9.631 ng/ml
Fentanyl	5.169	8468	627.1	127.60	1645.4	371670	1.109 ng/ml
Fluoxetine	5.702	83904	3872.2	7.21	7887.7	312873	9.830 ng/ml
Methadone	5.650	135348	207536.0	48.42	3418.9	516228	9.944 ng/ml
Methamphetamine	3.186	147485	8108.7	35.67	1537.8	508671	10.312 ng/ml
Metoprolol	4.310	17602	88330.1	97.47	∞	239160	10.724 ng/ml
Norbuprenorphine	4.992	817	1204.9	94.40	∞	9376	1.179 ng/ml
Norfentanyl	4.068	4764	257.1	30.91	169.4	564655	1.011 ng/ml
Quetiapine	5.648	96707	24269.4	63.09	25131.0	135903	10.457 ng/ml

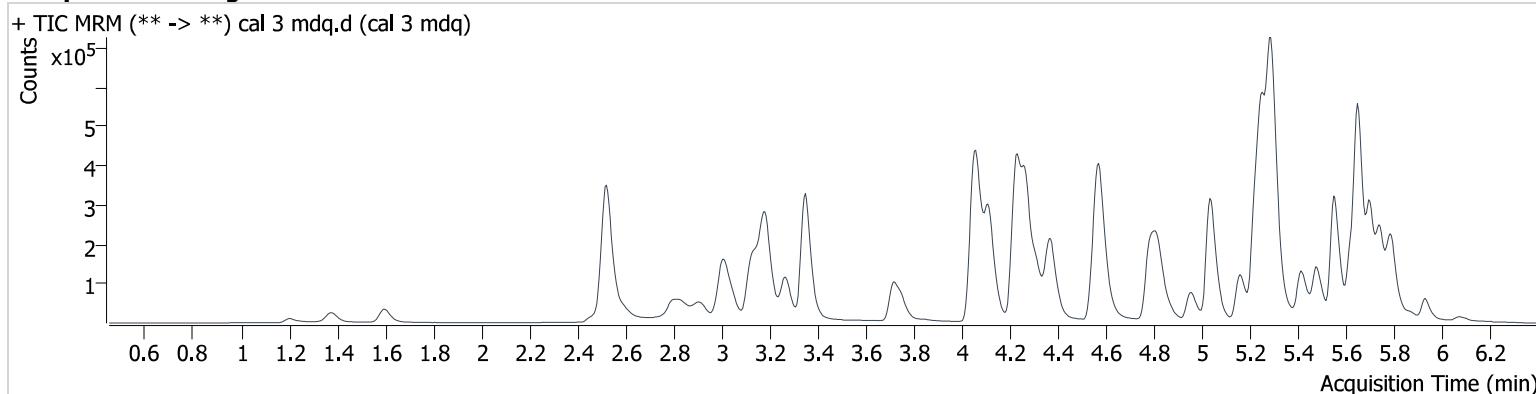
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-C1
Injection Volume 2
Acq. Date-Time 8/13/2024 12:09:04 PM
Sample Info.

Data File cal 3 mdq.d
Sample cal 3 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	33299	86055.6	108.36	136742.9	59184	26.685 ng/ml
Amphetamine	3.002	117611	5575.6	259.31	3582.0	130334	27.582 ng/ml
Buprenorphine	6.092	918	109.8	674.41	2314.2	29351	2.540 ng/ml
Bupropion	4.821	196419	10538.5	60.04	2160.6	279277	24.661 ng/ml
Clonazepam	5.582	6167	3074.9	39.25	∞	4487	24.035 ng/ml
EDDP	5.254	189772	11278.2	43.76	13791.4	333030	25.189 ng/ml
Fentanyl	5.174	16449	1607.3	137.70	1647.8	329373	2.418 ng/ml
Fluoxetine	5.702	179826	8475.7	7.54	∞	263332	25.329 ng/ml
Methadone	5.650	280582	10200.0	50.76	53758.0	453960	23.440 ng/ml
Methamphetamine	3.186	289201	12616.2	36.36	4920.8	421216	27.875 ng/ml
Metoprolol	4.310	35213	772580.8	97.88	8316.7	201350	27.602 ng/ml
Norbuprenorphine	4.992	1386	1507.6	100.00	3482.2	8192	2.508 ng/ml
Norfentanyl	4.068	9773	3333.3	35.09	491.4	483298	2.496 ng/ml
Quetiapine	5.648	202413	∞	62.49	∞	115271	27.596 ng/ml

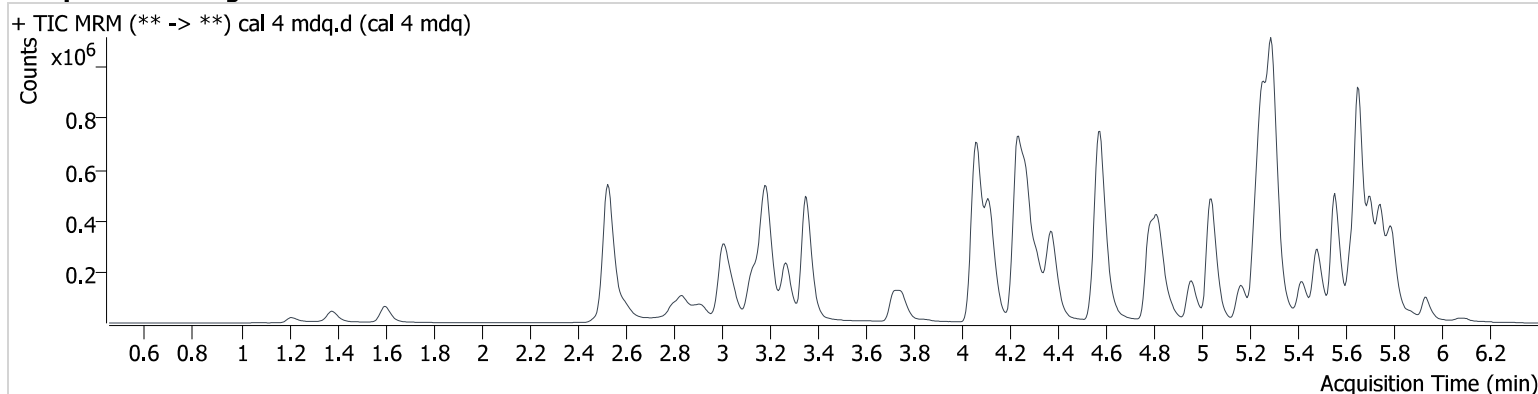
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-D1
Injection Volume 2
Acq. Date-Time 8/13/2024 12:17:44 PM
Sample Info.

Data File cal 4 mdq.d
Sample cal 4 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.259	67757	130412.4	107.52	∞	61772	52.693 ng/ml
Amphetamine	3.007	251601	1431.0	268.57	11661.7	142437	55.504 ng/ml
Buprenorphine	6.092	2013	215.0	691.14	1305.6	31828	5.080 ng/ml
Bupropion	4.821	426227	35314.4	62.30	∞	303368	49.154 ng/ml
Clonazepam	5.587	13335	∞	34.90	14285.1	4601	52.563 ng/ml
EDDP	5.254	403886	19362.0	43.56	∞	358188	49.736 ng/ml
Fentanyl	5.174	37415	22010.7	133.76	23044.6	363628	4.971 ng/ml
Fluoxetine	5.702	382946	85300.3	7.35	∞	297757	47.872 ng/ml
Methadone	5.650	619263	1452936.1	49.19	∞	481018	48.823 ng/ml
Methamphetamine	3.191	606240	∞	37.11	11241.8	490518	52.200 ng/ml
Metoprolol	4.315	69642	315908.2	97.81	14912.1	223178	50.457 ng/ml
Norbuprenorphine	4.992	2789	4988.7	103.58	13389.4	9414	4.567 ng/ml
Norfentanyl	4.068	22116	2991.7	29.99	601.4	527501	5.231 ng/ml
Quetiapine	5.648	437984	84756.8	59.70	293507.2	130749	53.751 ng/ml

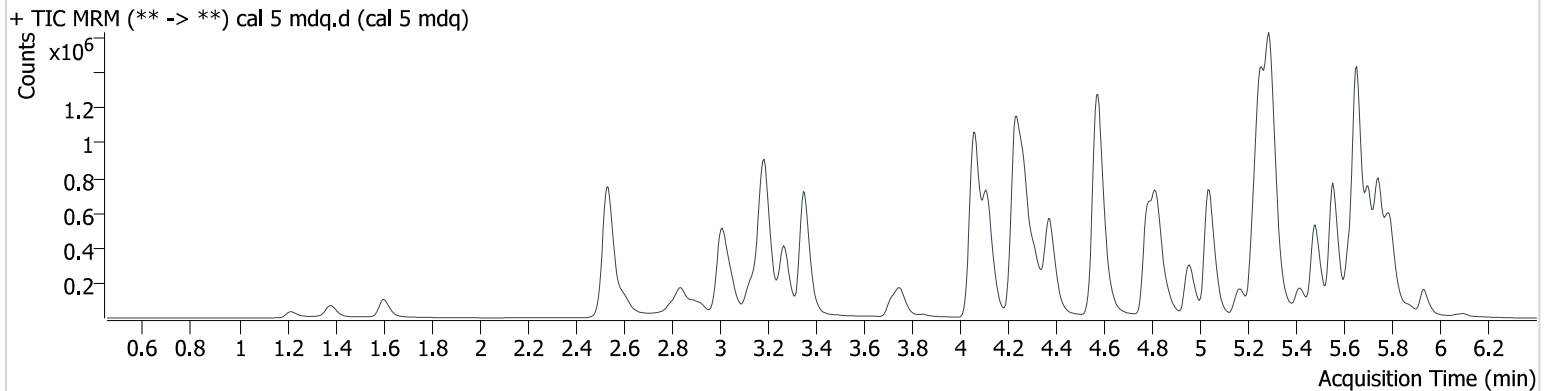
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-E1
Injection Volume 2
Acq. Date-Time 8/13/2024 12:26:26 PM
Sample Info.

Data File cal 5 mdq.d
Sample cal 5 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
7-aminoclonazepam	4.254	114765	299949.7	109.26	∞	53200	104.312	ng/ml
Amphetamine	3.007	437697	8506.1	259.52	62151.8	133959	104.009	ng/ml
Buprenorphine	6.097	3959	380.9	649.58	4455.5	29899	10.576	ng/ml
Bupropion	4.821	832607	19724.1	59.98	∞	288500	100.851	ng/ml
Clonazepam	5.587	24489	20465.2	36.41	30996.2	4109	109.872	ng/ml
EDDP	5.254	718315	29920.9	44.57	16813.7	316193	100.092	ng/ml
Fentanyl	5.174	71927	16580.3	135.44	11535.0	351216	9.884	ng/ml
Fluoxetine	5.702	729838	54353.5	7.51	69749.6	268020	101.575	ng/ml
Methadone	5.650	1148804	326564.5	49.75	151147.1	429434	101.450	ng/ml
Methamphetamine	3.191	1120707	29584.0	36.73	46906.1	465137	104.163	ng/ml
Metoprolol	4.315	107932	∞	96.88	∞	204144	86.558	ng/ml
Norbuprenorphine	4.992	5739	26771.3	101.49	∞	8916	10.196	ng/ml
Norfentanyl	4.068	38875	6417.8	32.02	1908.8	461735	10.557	ng/ml
Quetiapine	5.653	778454	301263.6	58.65	322805.6	119945	105.284	ng/ml

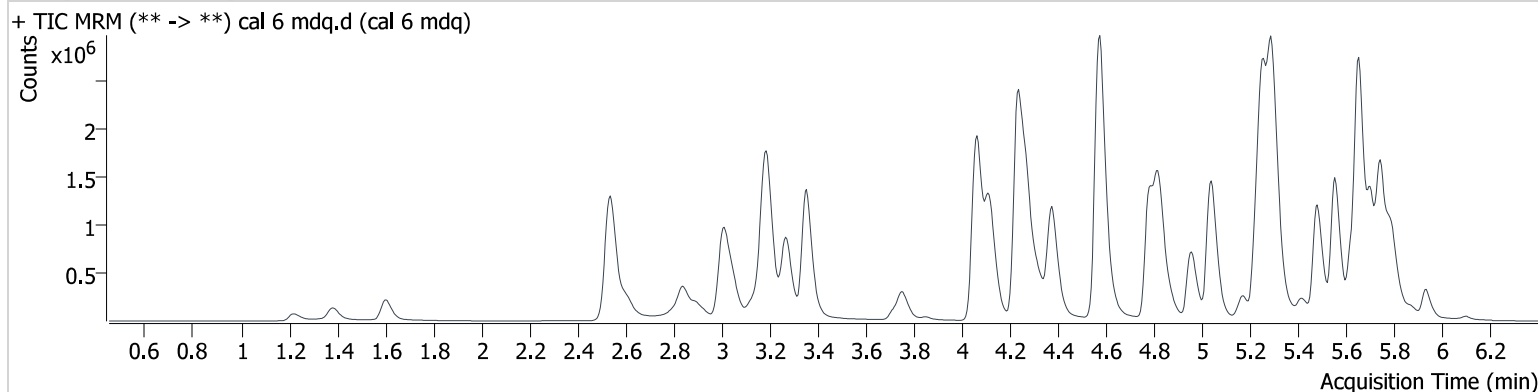
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-F1
Injection Volume 2
Acq. Date-Time 8/13/2024 12:35:06 PM
Sample Info.

Data File cal 6 mdq.d
Sample cal 6 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	209302	∞	106.70	∞	40934	248.205 ng/ml
Amphetamine	3.013	892909	47096.3	248.90	6342.7	123482	232.098 ng/ml
Buprenorphine	6.092	9247	1077.8	624.80	10548.6	30369	24.250 ng/ml
Bupropion	4.821	1898577	132031.1	61.10	215115.0	263952	251.191 ng/ml
Clonazepam	5.587	56414	7327.5	36.98	∞	4742	221.014 ng/ml
EDDP	5.254	1639467	42999.2	43.32	48155.9	296084	243.804 ng/ml
Fentanyl	5.169	180530	1812.8	132.87	1621.4	350241	24.863 ng/ml
Fluoxetine	5.702	1523158	118480.8	7.81	∞	231947	245.225 ng/ml
Methadone	5.650	2668679	205489.7	48.67	∞	391100	258.766 ng/ml
Methamphetamine	3.191	2453131	178160.7	37.62	70249.1	453868	236.806 ng/ml
Metoprolol	4.315	174806	500632.1	98.63	∞	177548	162.517 ng/ml
Norbuprenorphine	4.992	12344	15694.0	101.39	15170.9	7757	25.550 ng/ml
Norfentanyl	4.073	76113	10817.8	31.57	2821.2	388719	24.622 ng/ml
Quetiapine	5.653	1456428	503392.0	63.99	118024.8	106405	223.397 ng/ml

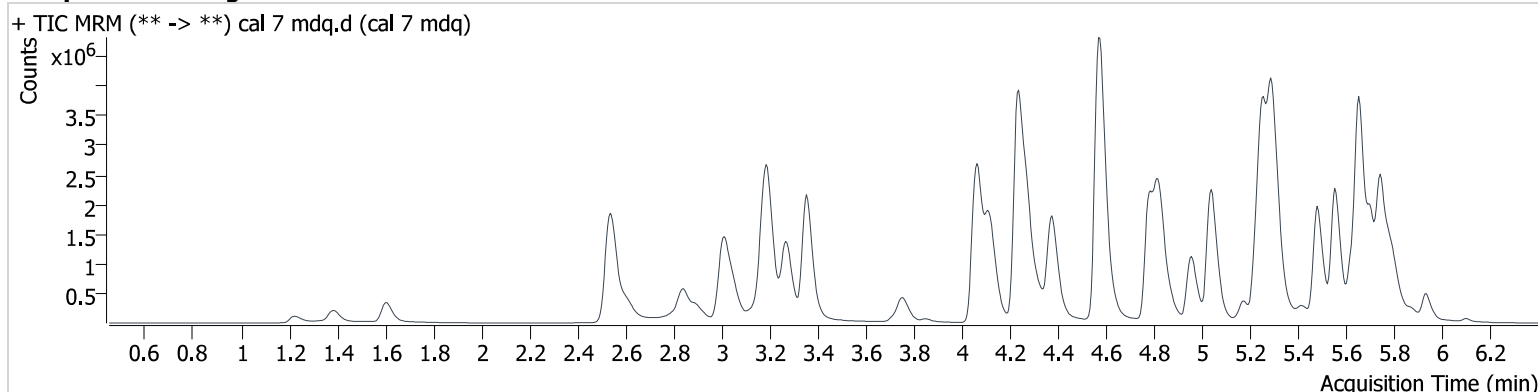
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-G1
Injection Volume 2
Acq. Date-Time 8/13/2024 12:43:46 PM
Sample Info.

Data File cal 7 mdq.d
Sample cal 7 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	277204	159358.2	109.44	341492.4	27506	489.899 ng/ml
Amphetamine	3.007	1363968	40552.7	244.52	71412.5	107806	407.281 ng/ml
Buprenorphine	6.097	14917	1892.9	641.51	5355.6	23606	50.270 ng/ml
Bupropion	4.821	2977007	345771.3	61.11	246736.3	207157	501.749 ng/ml
Clonazepam	5.587	103146	12173.8	33.22	∞	3882	495.594 ng/ml
EDDP	5.254	2254647	223045.9	44.82	34296.8	194192	511.090 ng/ml
Fentanyl	5.174	312994	36312.5	134.92	75016.5	298129	50.631 ng/ml
Fluoxetine	5.702	2233783	86634.7	7.20	∞	164641	506.858 ng/ml
Methadone	5.650	4029535	58473.5	49.47	2274088.0	309889	493.114 ng/ml
Methamphetamine	3.191	3958900	∞	36.18	173675.1	403617	431.800 ng/ml
Metoprolol	4.315	242076	530686.9	98.24	∞	136899	293.108 ng/ml
Norbuprenorphine	4.992	19057	14476.8	93.36	20014.1	6504	47.238 ng/ml
Norfentanyl	4.073	101835	8249.5	31.85	3735.0	280093	45.763 ng/ml
Quetiapine	5.653	2215861	220162.1	60.66	∞	82467	439.720 ng/ml

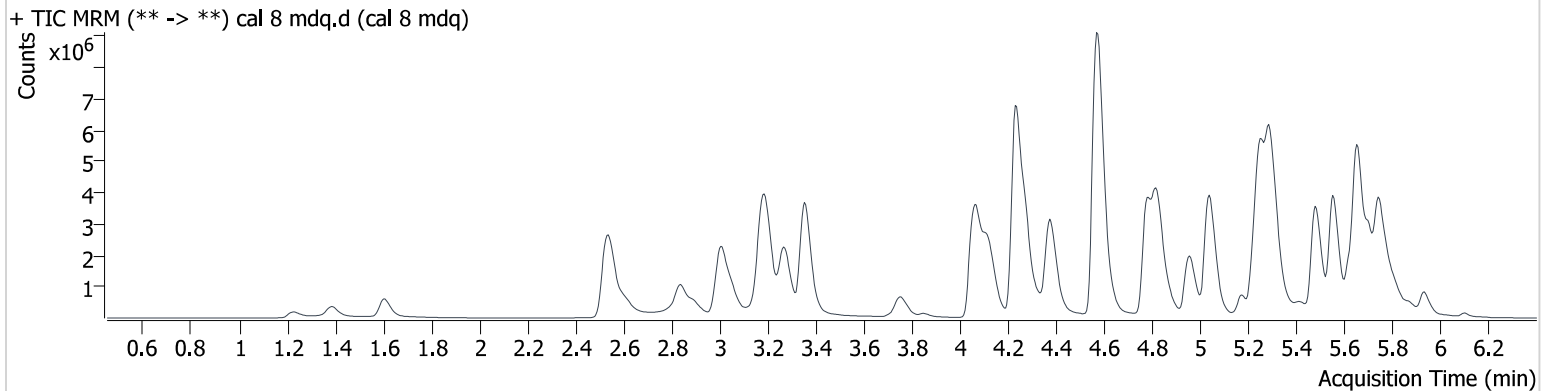
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\081324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 8/13/2024 4:26:15 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-H1
Injection Volume 2
Acq. Date-Time 8/13/2024 1:01:08 PM
Sample Info.

Data File cal 8 mdq.d
Sample cal 8 mdq
Operator Anne Nord
Comment Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.254	312559	∞	109.02	83691.1	17789	854.614 ng/ml
Amphetamine	3.007	2171961	71578.6	242.46	200063.3	108392	645.964 ng/ml
Buprenorphine	6.097	33061	4636.1	622.30	16522.7	26739	98.310 ng/ml
Bupropion	4.821	5232326	∞	59.54	585847.2	180266	1013.299 ng/ml
Clonazepam	5.587	174951	385988.9	35.18	72061.1	3226	1013.380 ng/ml
EDDP	5.254	4469271	266129.4	43.38	239246.7	193096	1018.751 ng/ml
Fentanyl	5.174	689590	2021870.8	136.23	92495.3	338994	98.094 ng/ml
Fluoxetine	5.702	3463392	181246.3	7.40	∞	126062	1026.558 ng/ml
Methadone	5.650	7332595	100991.7	47.22	146186.7	267484	1039.578 ng/ml
Methamphetamine	3.191	6715648	145860.3	37.15	2038495.9	445053	665.645 ng/ml
Metoprolol	4.315	383647	915844.1	97.71	∞	109327	583.193 ng/ml
Norbuprenorphine	4.992	34278	96740.9	102.40	368974.9	5416	102.315 ng/ml
Norfentanyl	4.078	121804	3375.2	31.75	5316.9	208066	73.717 ng/ml
Quetiapine	5.658	2818352	1188142.4	57.53	920681.0	69754	661.824 ng/ml