



7/25/2024

Worklist: 6882**REVIEWED**

By Britany Wylie at 8:33 am, Jul 26, 2024

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-1121	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1226	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1276	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1287	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1288	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1290	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
C2024-1301	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
C2024-1306	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1374	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2024-1375	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	

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

Extraction Date: 07/23/2024

Plate lot#: 240528

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

Blank Blood Lot: 24C52042

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: 6524

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: *The samples were extracted on 7/23/24 stored in the freezer overnight and injected 7/24/24*
Compounds evaluated limitations

6-monoacetylmorphine	
7-aminoclonazepam	5-500 cal 8 dropped due to accuracy
alpha-hydroxyalprazolam	10-1000 cal 1 dropped due to ratio and poor peak shape
alprazolam	
amphetamine	5-500 cal 8 dropped due to accuracy
buprenorphine	1-100 cal 1 dropped due to ratio and poor response
clonazepam	
eddp	



ephedrine/pseudoephedrine	
fentanyl	
fluoxetine	qualitative due to accuracy of 10ng QC
ketamine	5-500 cal 8 dropped due to accuracy
lorazepam	
methadone	
methamphetamine	5-500 cal 8 dropped due to accuracy
mitragynine	
norbuprenorphine	2.5-100 cal 1 and 2 dropped due to poor response and ratios
norfentanyl	
noroxycodone	
olanzapine	
oxycodone	
oxymorphone	
promethazine	
zolpidem	



	1	2	3	4	5	6	7	8	9	10	11	12
A					IS + Cal. 1	IS + QC_1				1290-1		
B					IS + Cal. 2	IS + QC_2				1301-3		
C				negative blood	IS + Cal. 3	IS + QC 3				1375-1		
D				1121-1	IS + Cal. 4	IS + QC_4						
E				1226-1	IS + Cal. 5	IS + QC_2						
F				1276-1	IS + Cal. 6	1306-1						
G				1287-1	IS + Cal. 7	1374-1						
H				1288-1	IS + Cal. 8	negative urine						

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plate position 2

c2024-____-__

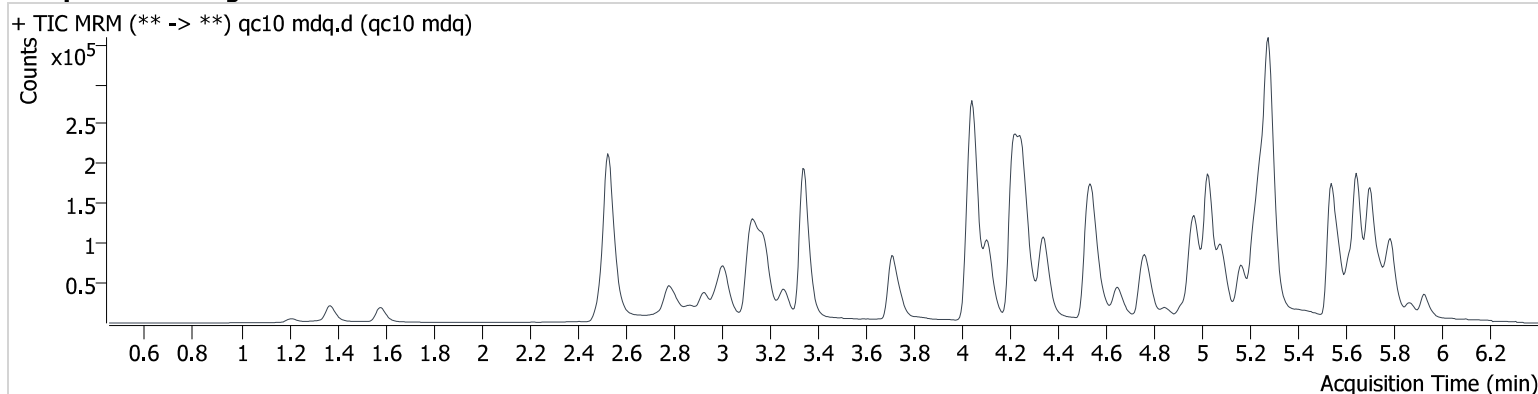
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-A6
Injection Volume 2
Acq. Date-Time 7/24/2024 2:26:40 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.
6-MAM	3.121	1013	4711.2	131.39	∞	26182	1.030 ng/ml
7-aminoclonazepam	4.239	10934	6779.1	109.17	1554.6	47255	10.694 ng/ml
a-hydroxyalprazolam	5.665	1229	80.6	58.92	489.7	60119	6.445 ng/ml
Alprazolam	5.744	16405	458.2	92.61	342.6	60119	9.031 ng/ml
Amphetamine	3.007	38177	2732.2	235.28	2780.9	95412	10.442 ng/ml
Buprenorphine	5.886	1604	130.5	15.34	260.2	24254	1.059 ng/ml
Clonazepam	5.582	2196	∞	38.74	∞	4312	10.238 ng/ml
EDDP	5.248	42534	2866.2	41.63	2260.7	196052	9.662 ng/ml
Fentanyl	5.091	4632	458.8	127.03	1286.9	213524	1.033 ng/ml
Fluoxetine	5.702	52590	7754.0	7.45	17053.0	146924	13.415 ng/ml
Ketamine	4.042	32347	3761.4	40.09	780.5	146950	9.861 ng/ml
Lorazepam	5.722	1657	94.8	61.38	20.0	9416	8.953 ng/ml
Methadone	5.645	68732	928.5	49.75	4420.4	271168	9.797 ng/ml
Methamphetamine	3.186	88807	4910.1	35.67	1143.0	285423	9.600 ng/ml
Mitragynine	5.230	14926	44505.8	35.26	8753.2	146950	10.597 ng/ml
Norbuprenorphine	4.982	557	1308.8	75.35 Low	15101.3	5714	0.654 ng/ml
Norfentanyl	4.063	2910	614.2	29.82	183.0	336273	0.917 ng/ml
Noroxycodone	2.886	13654	29399.6	39.54	4920.7	39222	10.494 ng/ml
Olanzapine	4.602	6504	1704.2	46.40	198.4	19642	8.284 ng/ml
Oxycodone	2.809	27118	3115.5	29.72	5023.1	134599	8.590 ng/ml
Oxymorphone	1.375	16703	∞	42.71	∞	52082	10.365 ng/ml
Promethazine	5.536	67581	14254.6	29.97	1100.5	301493	10.629 ng/ml
Pseudoephedrine	2.538	89933	10090.1	16.69	8811.8	495325	9.298 ng/ml
Zolpidem	4.979	77830	5613.0	30.97	∞	352457	9.073 ng/ml

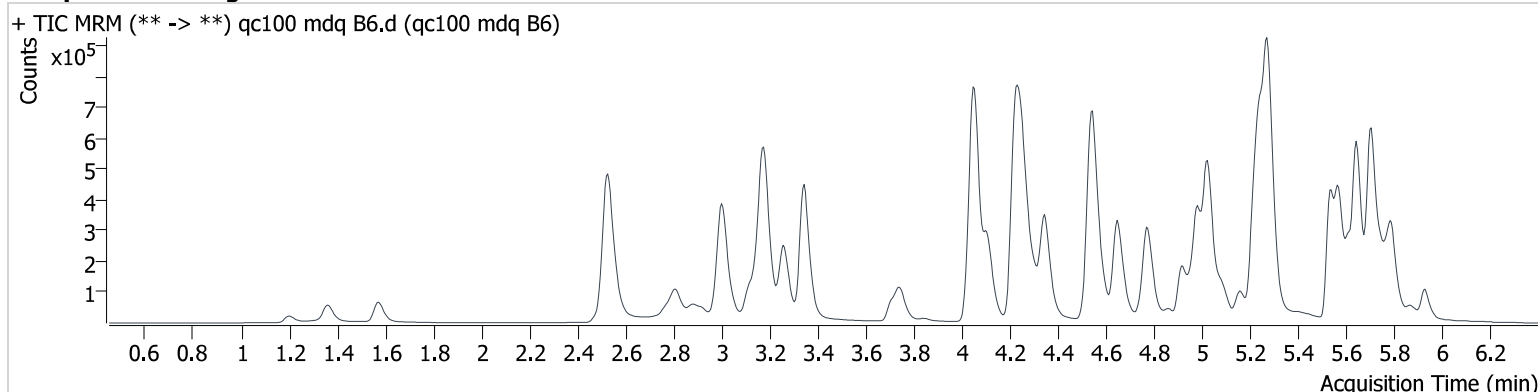
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Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-B6
Injection Volume 2
Acq. Date-Time 7/24/2024 5:20:21 PM
Sample Info.

Data File qc100 mdq B6.d
Sample qc100 mdq B6
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.
6-MAM	3.116	8263	19164.1	136.22	19403.9	21005	10.917 ng/ml
7-aminoclonazepam	4.239	70821	35895.5	110.07	2717.5	34481	103.501 ng/ml
a-hydroxyalprazolam	5.665	11620	283.2	68.42	3275.5	47796	101.043 ng/ml
Alprazolam	5.744	146640	3511.4	91.68	2990.8	47796	105.912 ng/ml
Amphetamine	3.002	288847	15388.8	247.88	5952.9	81800	107.167 ng/ml
Buprenorphine	5.891	14562	3057.2	16.46	978.3	21774	10.199 ng/ml
Clonazepam	5.582	19048	∞	31.10	10146.0	3501	101.847 ng/ml
EDDP	5.243	348581	35932.2	43.99	14649.1	159512	99.383 ng/ml
Fentanyl	5.091	39364	2808.6	130.36	2068.8	191230	9.731 ng/ml
Fluoxetine	5.697	383884	∞	7.47	36376.0	137226	104.605 ng/ml
Ketamine	4.042	277473	42033.7	39.92	9870.7	124347	107.151 ng/ml
Lorazepam	5.717	14664	1810.9	54.03	113.5	8615	91.750 ng/ml
Methadone	5.645	646857	808599.3	49.34	18123.1	245301	97.912 ng/ml
Methamphetamine	3.181	658179	105655.9	36.49	35499.7	250784	106.738 ng/ml
Mitragynine	5.230	130013	348842.1	35.98	73039.8	124347	106.234 ng/ml
Norbuprenorphine	4.977	3142	356774.5	93.28	11359.8	4591	10.862 ng/ml
Norfentanyl	4.063	23211	2430.2	31.15	3107.4	274248	9.484 ng/ml
Noroxycodone	2.881	102684	∞	43.17	1038.3	29538	107.253 ng/ml
Olanzapine	4.586	59285	1388.5	49.14	144.6	17219	89.185 ng/ml
Oxycodone	2.804	240298	∞	29.12	∞	110821	99.372 ng/ml
Oxymorphone	1.360	124637	∞	42.20	∞	38353	107.099 ng/ml
Promethazine	5.531	605452	1905636.7	30.54	20396.5	267434	102.186 ng/ml
Pseudoephedrine	2.528	783269	47461.5	16.35	∞	417523	96.552 ng/ml
Zolpidem	4.979	694008	2376447.6	31.26	283589.6	298884	97.994 ng/ml

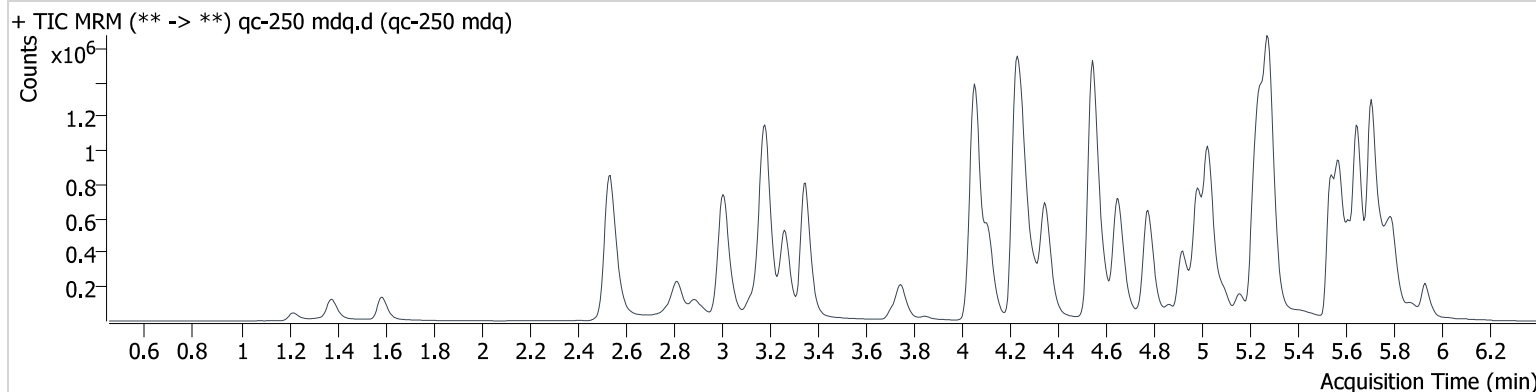
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Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-C6
Injection Volume 2
Acq. Date-Time 7/24/2024 2:35:22 PM
Sample Info.

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.
6-MAM	3.121	19030	38516.0	139.57	8293.8	21571	24.542 ng/ml
7-aminoclonazepam	4.239	137364	∞	111.09	81164.8	28855	241.327 ng/ml
a-hydroxyalprazolam	5.670	28449	4259.0	57.17	382.1	45273	264.703 ng/ml
Alprazolam	5.749	335469	9560.0	91.28	∞	45273	256.402 ng/ml
Amphetamine	3.007	589119	2013.2	241.29	66542.7	81274	222.010 ng/ml
Buprenorphine	5.891	34152	∞	16.05	10819.9	20914	24.821 ng/ml
Clonazepam	5.582	44103	3339.2	35.64	43049.2	3494	235.304 ng/ml
EDDP	5.243	733701	24603.0	41.94	17172.4	128803	259.421 ng/ml
Fentanyl	5.091	100389	10556.0	129.50	4560.5	188403	25.176 ng/ml
Fluoxetine	5.697	873294	187611.6	7.64	67404.6	124744	261.723 ng/ml
Ketamine	4.042	583598	80213.7	40.20	21230.1	115559	243.501 ng/ml
Lorazepam	5.722	29830	22560.7	55.09	196.3	7261	222.311 ng/ml
Methadone	5.645	1501402	135125.8	50.37	50673.4	227709	244.179 ng/ml
Methamphetamine	3.186	1433548	491110.0	35.83	49683.1	244781	242.450 ng/ml
Mitragynine	5.230	281794	153869.3	37.84	194928.2	115559	247.359 ng/ml
Norbuprenorphine	4.982	6975	5467.4	97.86	6644.0	4412	26.461 ng/ml
Norfentanyl	4.068	48142	39940.0	31.95	2997.8	225929	23.967 ng/ml
Noroxycodone	2.886	237792	∞	44.43	∞	30194	243.316 ng/ml
Olanzapine	4.591	173245	4023.2	49.58	3098.9	20408	220.380 ng/ml
Oxycodone	2.809	569985	∞	29.53	∞	109298	239.993 ng/ml
Oxymorphone	1.375	319455	∞	42.71	∞	39304	268.201 ng/ml
Promethazine	5.536	1473025	4169571.7	30.27	517681.4	259090	255.761 ng/ml
Pseudoephedrine	2.538	1727060	∞	16.18	∞	361028	246.286 ng/ml
Zolpidem	4.979	1610933	274965.9	31.53	22553.0	283058	240.577 ng/ml

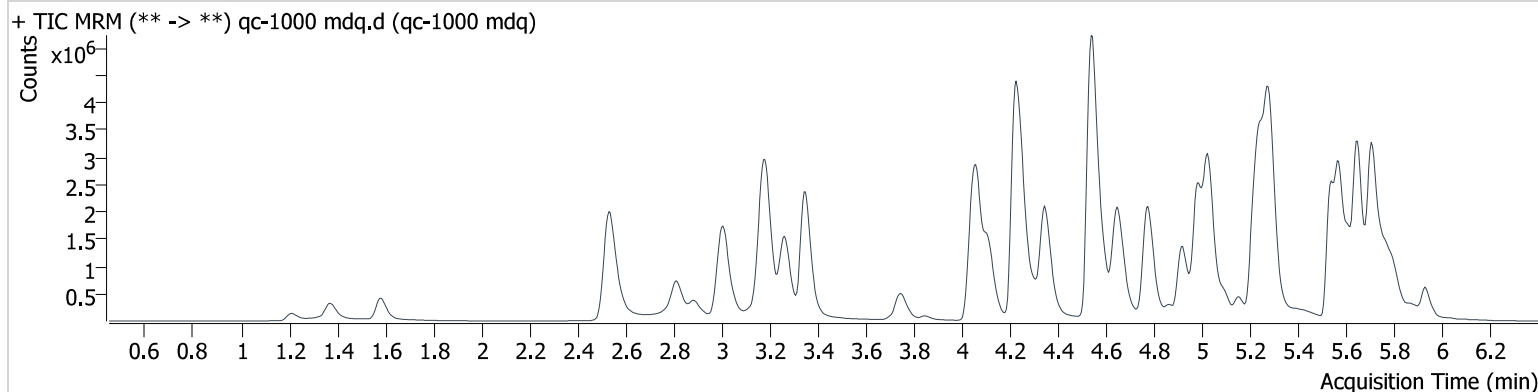
AM #28 Multi-Drug Quant. Results

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Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type QC
Acq. Method mdqp1 121523.m
Sample Position P2-D6
Injection Volume 2
Acq. Date-Time 7/24/2024 2:44:04 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.
6-MAM	3.121	66402	7737.8	139.72	84311.8	18818	98.308 ng/ml
7-aminoclonazepam	4.233	220240	40463.8	111.24	41066.2	16226	690.079 ng/ml
a-hydroxyalprazolam	5.670	80722	1999.0	57.56	5330.0	33399	1024.474 ng/ml
Alprazolam	5.749	963144	∞	93.67	∞	33399	999.086 ng/ml
Amphetamine	3.007	1443573	50258.1	236.90	14511.5	72203	615.731 ng/ml
Buprenorphine	5.891	135318	15618.3	14.64	23359.1	20081	102.255 ng/ml
Clonazepam	5.582	127737	∞	32.96	115756.3	2523	941.255 ng/ml
EDDP	5.243	3048949	∞	41.22	∞	136564	1017.444 ng/ml
Fentanyl	5.091	396842	21574.7	130.38	9598.8	179688	104.323 ng/ml
Fluoxetine	5.697	2210633	∞	7.26	565687.6	78963	1046.520 ng/ml
Ketamine	4.037	1441489	195760.9	39.66	115641.3	87704	794.239 ng/ml
Lorazepam	5.722	87451	4753.3	51.67	831.5	5149	920.944 ng/ml
Methadone	5.645	5101202	510367.2	48.94	190284.6	196215	961.534 ng/ml
Methamphetamine	3.181	4496094	230830.1	36.18	190215.8	237873	790.207 ng/ml
Mitragynine	5.230	845706	1145599.9	36.24	861546.3	87704	977.228 ng/ml
Norbuprenorphine	4.982	19188	29339.1	104.03	37542.3	3604	91.572 ng/ml
Norfentanyl	4.068	102972	148879.5	31.98	2754.4	119841	96.824 ng/ml
Noroxycodone	2.886	759916	∞	44.84	∞	24203	970.862 ng/ml
Olanzapine	4.586	1081398	3074.0	49.40	1373.2	27393	1026.015 ng/ml
Oxycodone	2.809	2007838	∞	28.54	∞	100277	923.470 ng/ml
Oxymorphone	1.370	1013825	∞	42.84	∞	35546	941.712 ng/ml
Promethazine	5.539	4979805	∞	28.73	∞	217868	1026.523 ng/ml
Pseudoephedrine	2.537	4944713	∞	16.26	∞	264573	962.361 ng/ml
Zolpidem	4.979	5755061	551178.1	30.32	118330.4	246276	988.673 ng/ml

AM #28 Multi-Drug Quant. Results

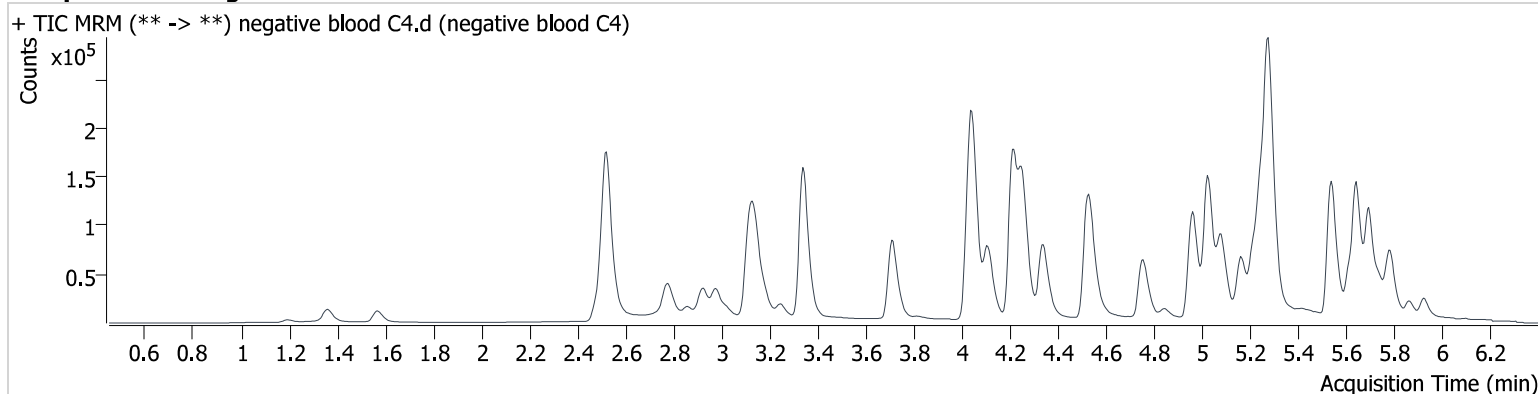
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Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-C4
Injection Volume 2
Acq. Date-Time 7/24/2024 3:01:25 PM
Sample Info.

Data File negative blood C4.d
Sample negative blood C4
Operator Anne Nord
Comment

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Sample Chromatogram



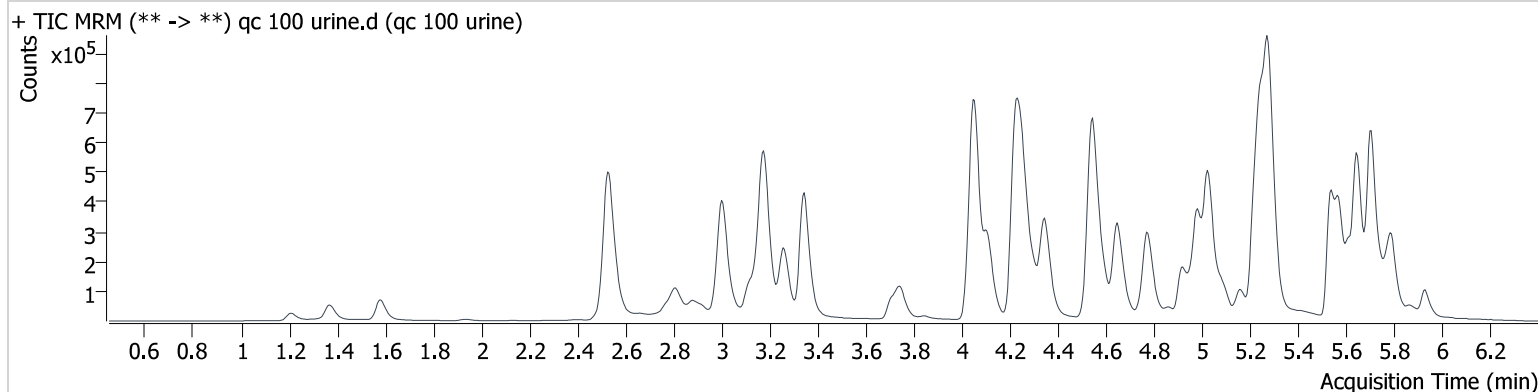
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-E6
Injection Volume 2
Acq. Date-Time 7/24/2024 2:52:46 PM
Sample Info.

Data File qc 100 urine.d
Sample qc 100 urine
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.
6-MAM	3.116	7626	33864.6	138.91	6310.0	21428	9.872 ng/ml
7-aminoclonazepam	4.239	72289	35457.5	114.04	9427.1	34869	104.481 ng/ml
a-hydroxyalprazolam	5.670	11868	2243.4	57.95	2920.9	35791	138.619 ng/ml
Alprazolam	5.749	107014	7778.6	89.43	2403.9	35791	103.205 ng/ml
Amphetamine	3.002	308246	3930.4	231.71	46503.5	85108	109.969 ng/ml
Buprenorphine	5.891	12538	3367.7	16.26	∞	17844	10.712 ng/ml
Clonazepam	5.582	14512	20628.0	37.17	7180.3	2076	130.616 ng/ml
EDDP	5.248	472121	1189061.1	42.54	14755.8	202888	105.843 ng/ml
Fentanyl	5.091	41676	31346.1	129.82	6168.0	197638	9.969 ng/ml
Fluoxetine	5.697	434045	22360.6	7.19	127157.7	148843	109.041 ng/ml
Ketamine	4.042	268168	20166.9	39.39	14073.7	121215	106.227 ng/ml
Lorazepam	5.722	11516	605.3	44.53	81.2	6261	99.207 ng/ml
Methadone	5.645	629803	56610.9	49.71	∞	244428	95.681 ng/ml
Methamphetamine	3.181	648107	1176744.4	36.15	24593.3	263656	99.754 ng/ml
Mitragynine	5.230	147445	149031.1	35.20	4849.4	121215	123.540 ng/ml
Norbuprenorphine	4.982	3566	15938.2	94.42	866.9	5265	10.741 ng/ml
Norfentanyl	4.063	23227	873.4	31.51	1635.4	269077	9.674 ng/ml
Noroxycodone	2.881	118353	∞	41.56	3324.5	36831	99.120 ng/ml
Olanzapine	4.591	133042	749.2	50.51	51.2	38989	88.390 ng/ml
Oxycodone	2.804	243235	∞	28.36	1454.0	111900	99.619 ng/ml
Oxymorphone	1.370	109664	∞	43.03	∞	34515	104.705 ng/ml
Promethazine	5.536	625576	33160.3	29.70	∞	276004	102.304 ng/ml
Pseudoephedrine	2.533	819976	∞	16.21	10039.5	423839	99.573 ng/ml
Zolpidem	4.979	690808	21928.1	31.38	315202.0	292170	99.789 ng/ml

[Signature]

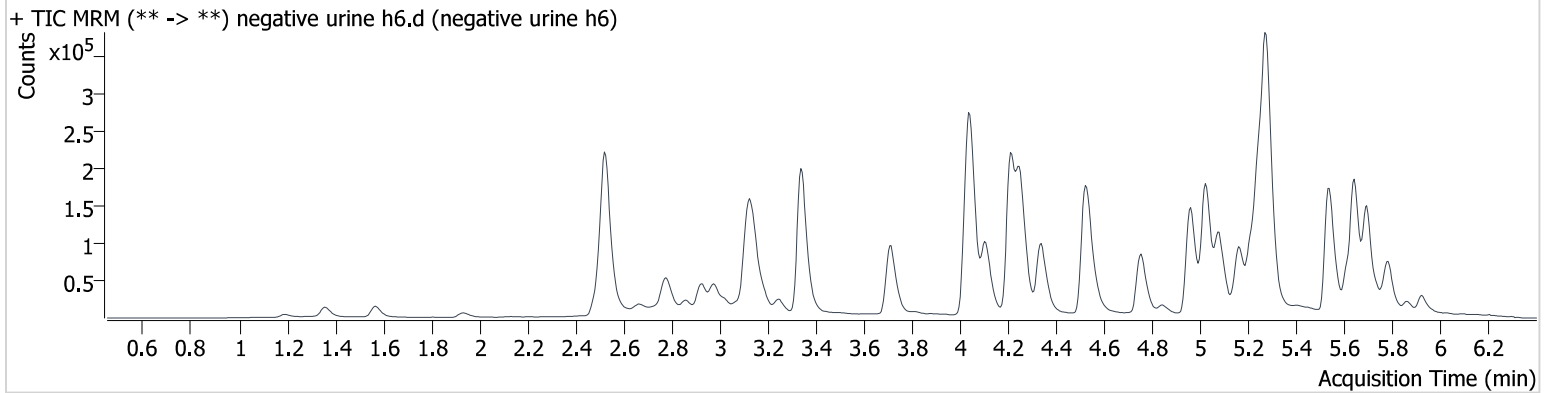
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Sample
Acq. Method mdqp1 121523.m
Sample Position P2-H6
Injection Volume 2
Acq. Date-Time 7/24/2024 4:10:48 PM
Sample Info.

Data File negative urine h6.d
Sample negative urine h6
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.

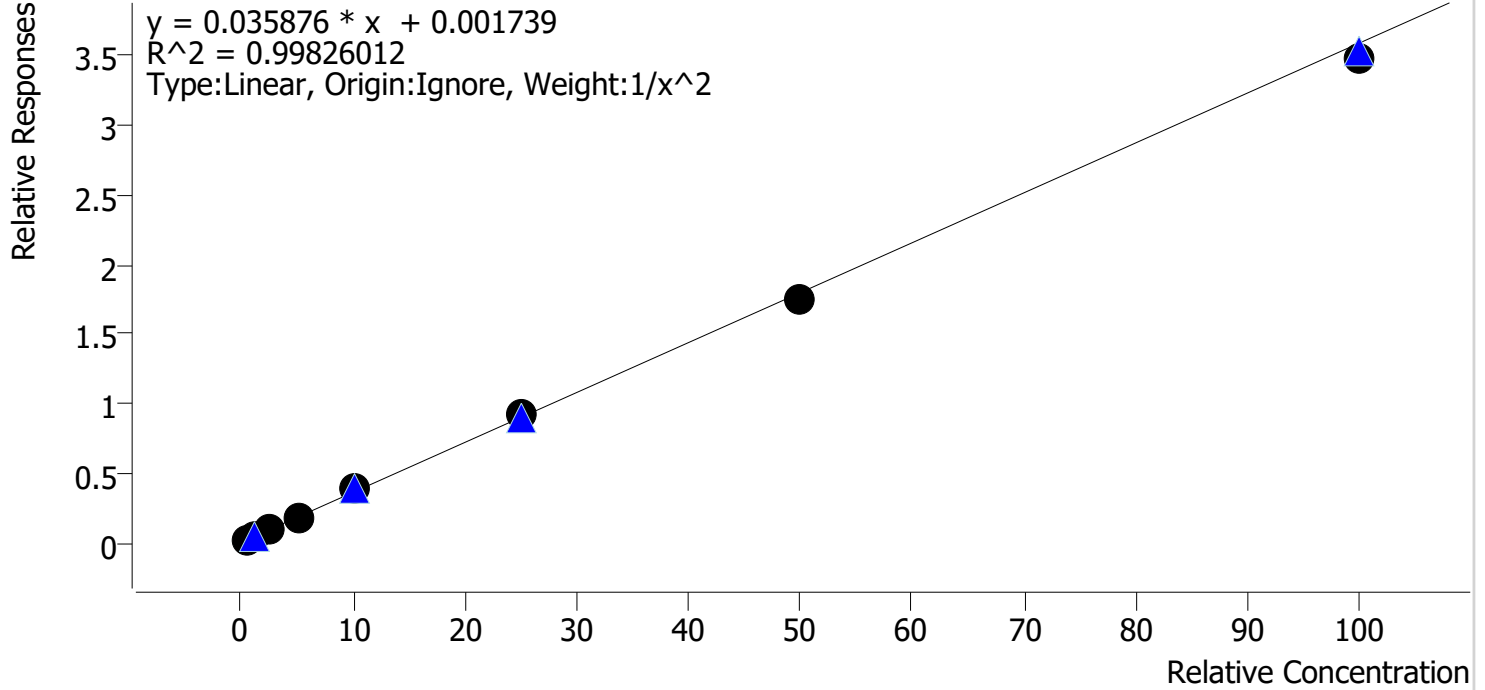
Sample Chromatogram



Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

6-MAM - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

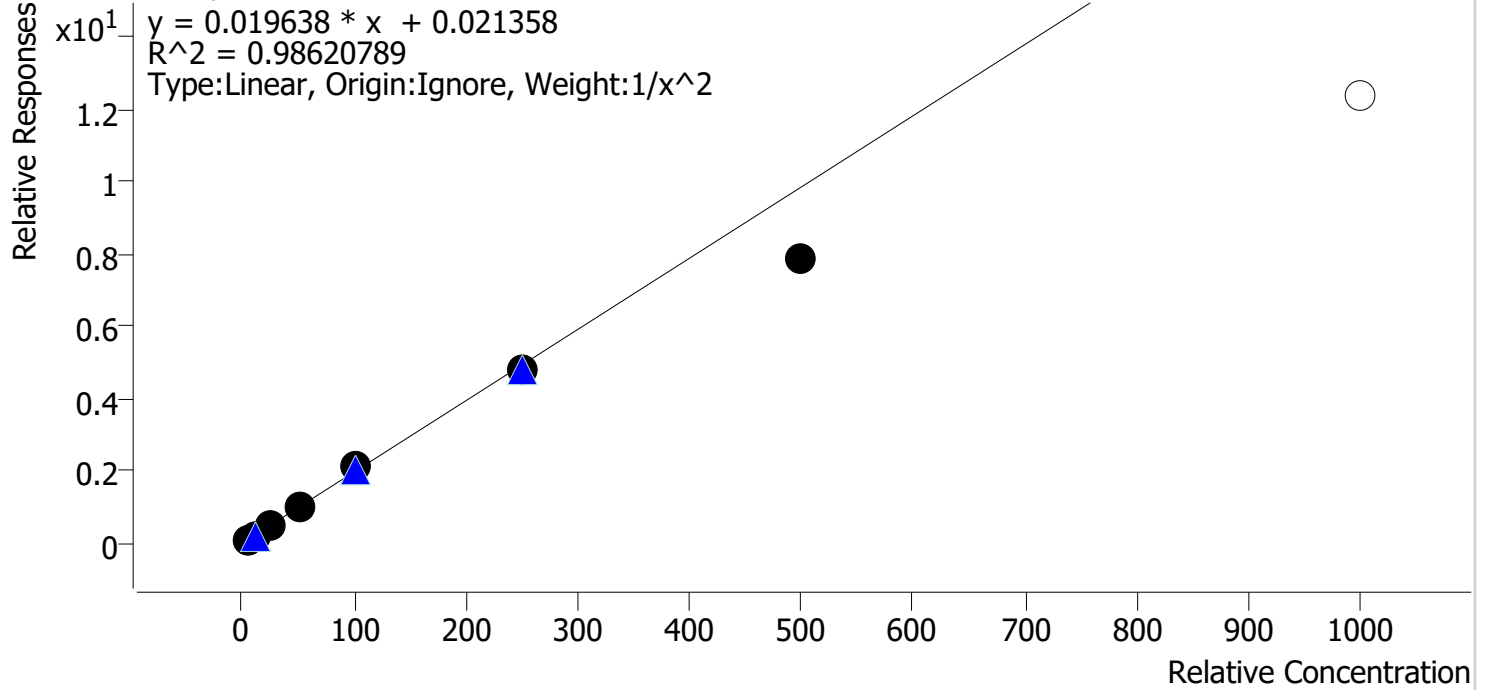


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	99.2
cal 2 mdq	2	✓	1.0	1.0	102.8
cal 3 mdq	3	✓	2.5	2.4	94.8
cal 4 mdq	4	✓	5.0	5.1	102.0
cal 5 mdq	5	✓	10.0	10.5	105.3
cal 6 mdq	6	✓	25.0	25.5	102.2
cal 7 mdq	7	✓	50.0	48.4	96.8
cal 8 mdq	8	✓	100.0	97.0	97.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

7-aminoclonazepam - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

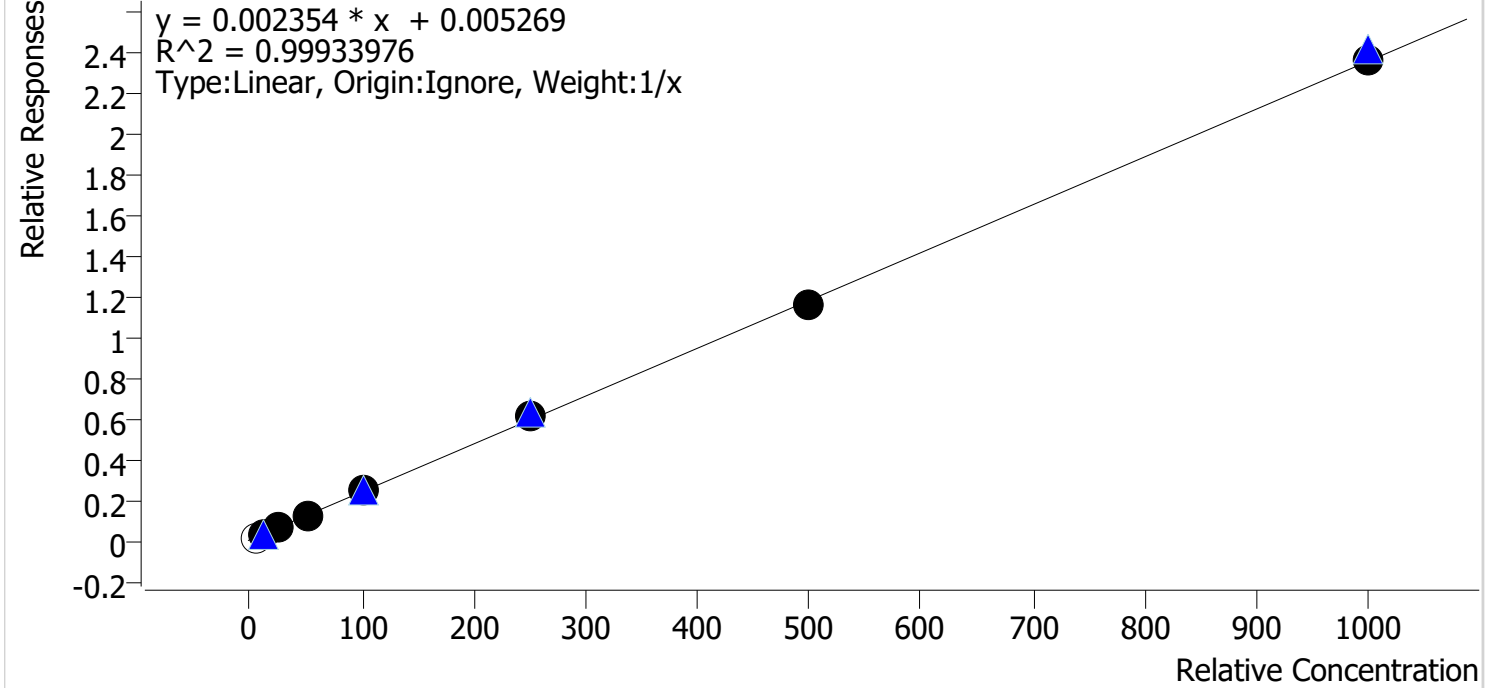


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.5
cal 2 mdq	2	✓	10.0	10.4	103.9
cal 3 mdq	3	✓	25.0	27.3	109.2
cal 4 mdq	4	✓	50.0	53.2	106.5
cal 5 mdq	5	✓	100.0	106.5	106.5
cal 6 mdq	6	✓	250.0	245.8	98.3
cal 7 mdq	7	✓	500.0	400.9	80.2
cal 8 mdq	8	✗	1000.0	629.6	63.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** Alprazolam-D5

a-hydroxyalprazolam - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

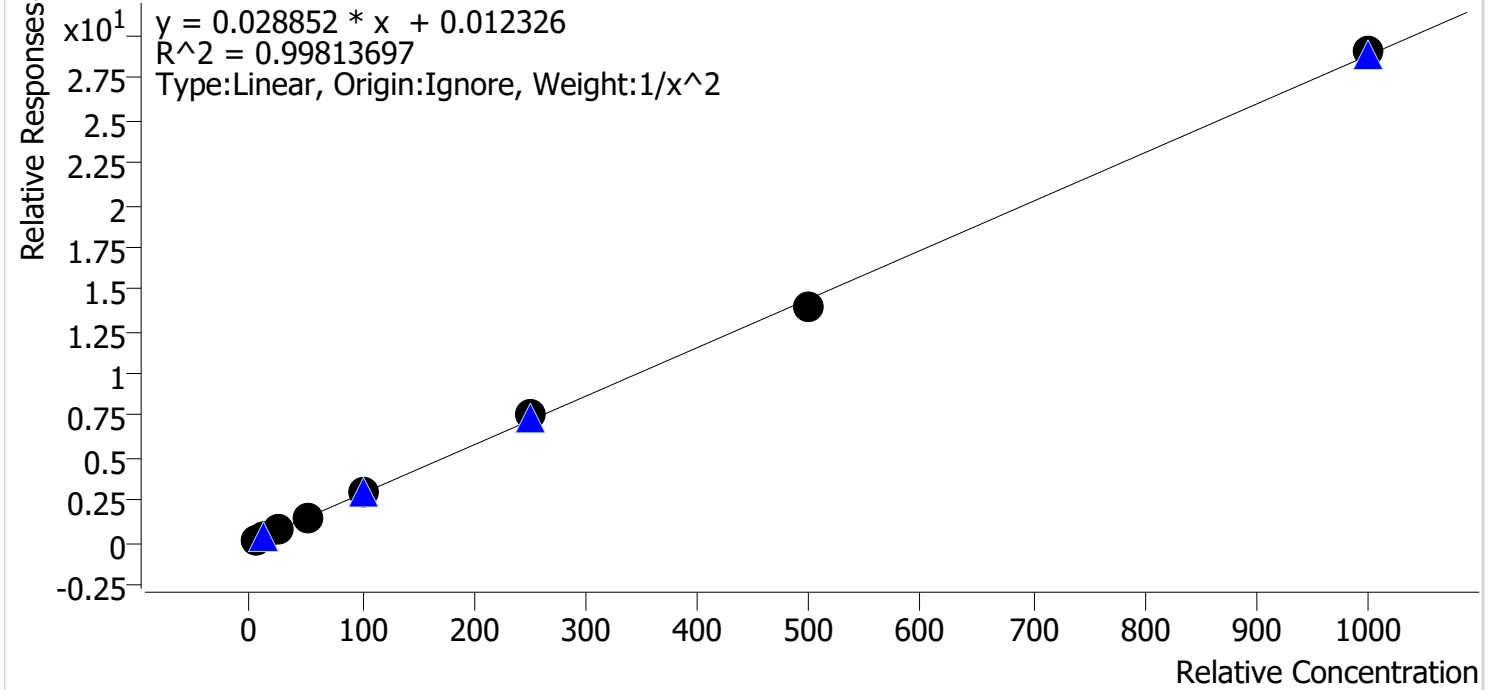


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	5.0	3.8	75.0
cal 2 mdq	2	✓	10.0	11.0	109.5
cal 3 mdq	3	✓	25.0	23.2	92.8
cal 4 mdq	4	✓	50.0	47.3	94.5
cal 5 mdq	5	✓	100.0	101.6	101.6
cal 6 mdq	6	✓	250.0	259.0	103.6
cal 7 mdq	7	✓	500.0	487.0	97.4
cal 8 mdq	8	✓	1000.0	1005.9	100.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

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

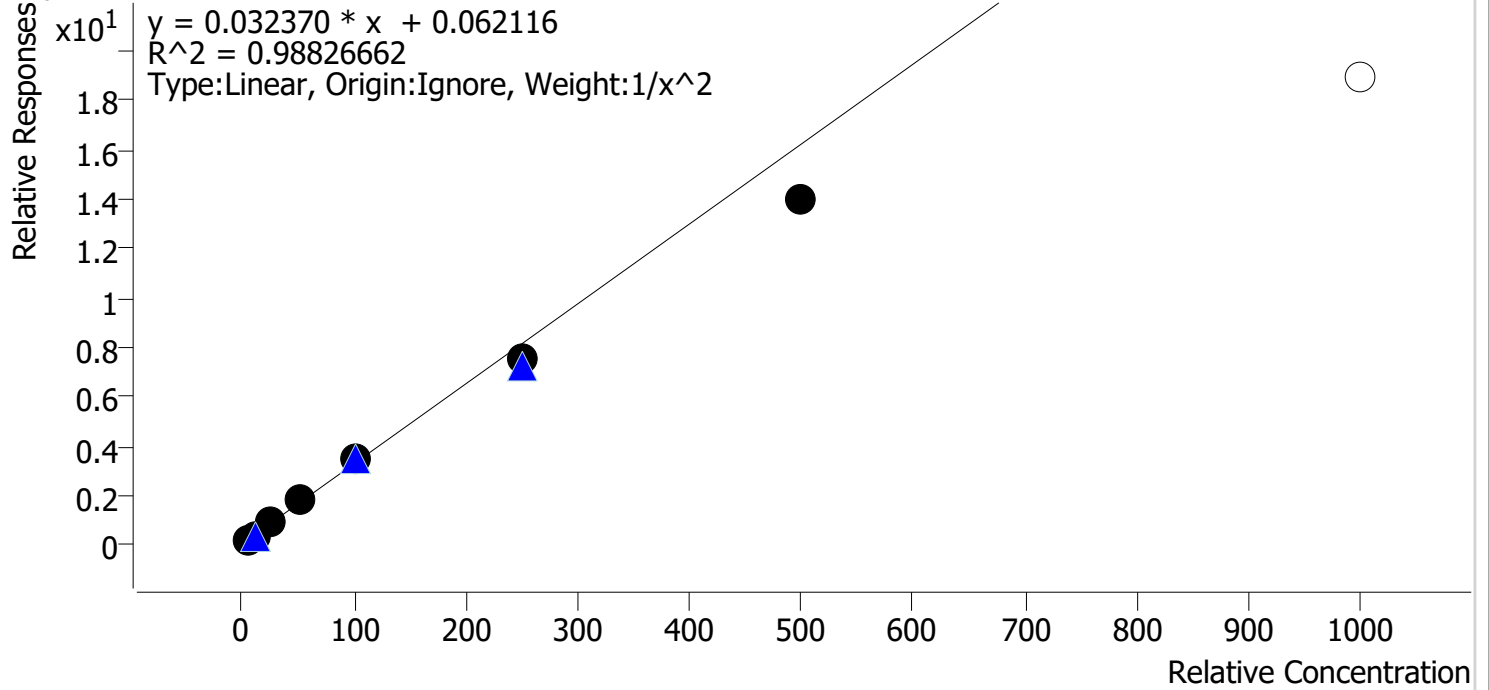


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	103.5
cal 2 mdq	2	✓	10.0	9.3	93.2
cal 3 mdq	3	✓	25.0	24.4	97.6
cal 4 mdq	4	✓	50.0	51.2	102.3
cal 5 mdq	5	✓	100.0	101.5	101.5
cal 6 mdq	6	✓	250.0	260.1	104.0
cal 7 mdq	7	✓	500.0	485.1	97.0
cal 8 mdq	8	✓	1000.0	1007.9	100.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

Amphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

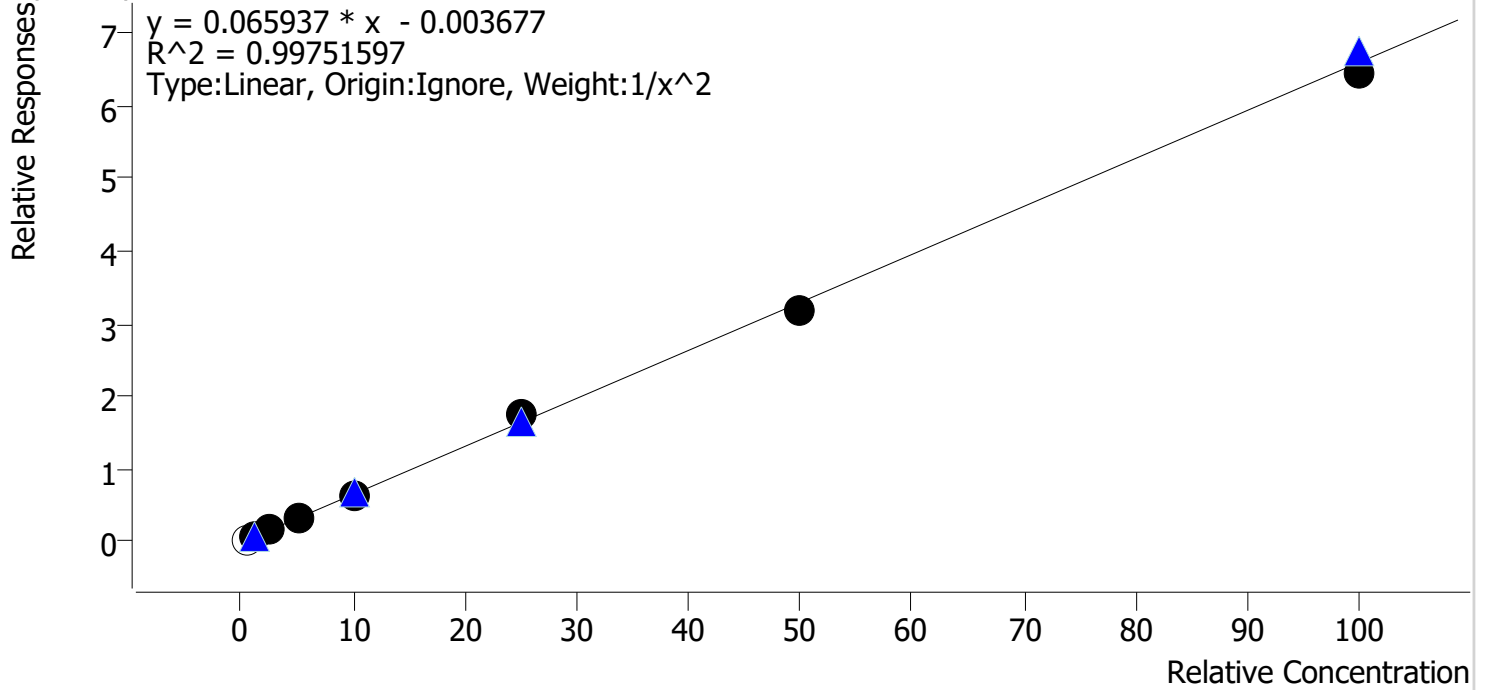


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	94.8
cal 2 mdq	2	✓	10.0	10.5	105.4
cal 3 mdq	3	✓	25.0	27.1	108.3
cal 4 mdq	4	✓	50.0	54.9	109.7
cal 5 mdq	5	✓	100.0	104.3	104.3
cal 6 mdq	6	✓	250.0	229.1	91.6
cal 7 mdq	7	✓	500.0	429.3	85.9
cal 8 mdq	8	✗	1000.0	583.2	58.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

Buprenorphine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

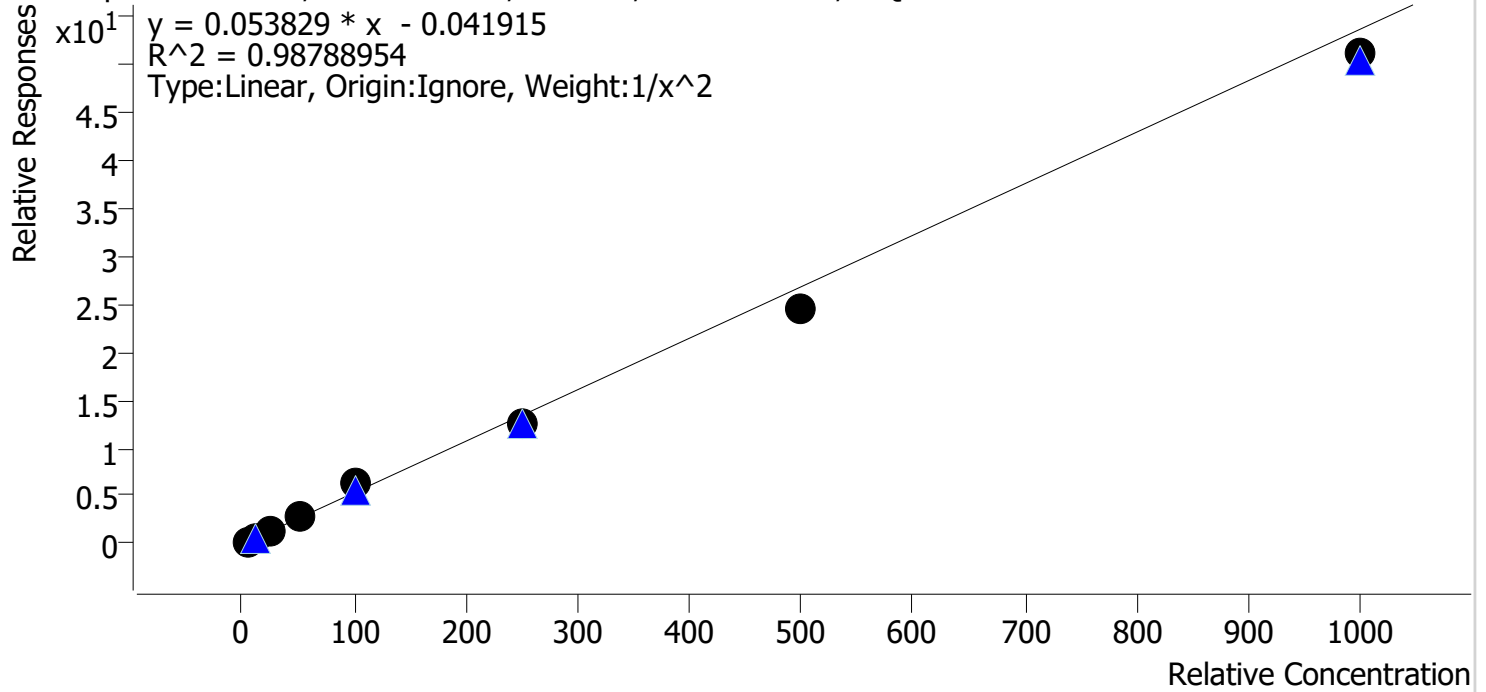


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	0.5	0.6	110.4
cal 2 mdq	2	✓	1.0	1.0	97.8
cal 3 mdq	3	✓	2.5	2.7	106.7
cal 4 mdq	4	✓	5.0	4.9	98.2
cal 5 mdq	5	✓	10.0	9.7	97.4
cal 6 mdq	6	✓	25.0	26.4	105.7
cal 7 mdq	7	✓	50.0	48.3	96.5
cal 8 mdq	8	✓	100.0	97.6	97.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

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

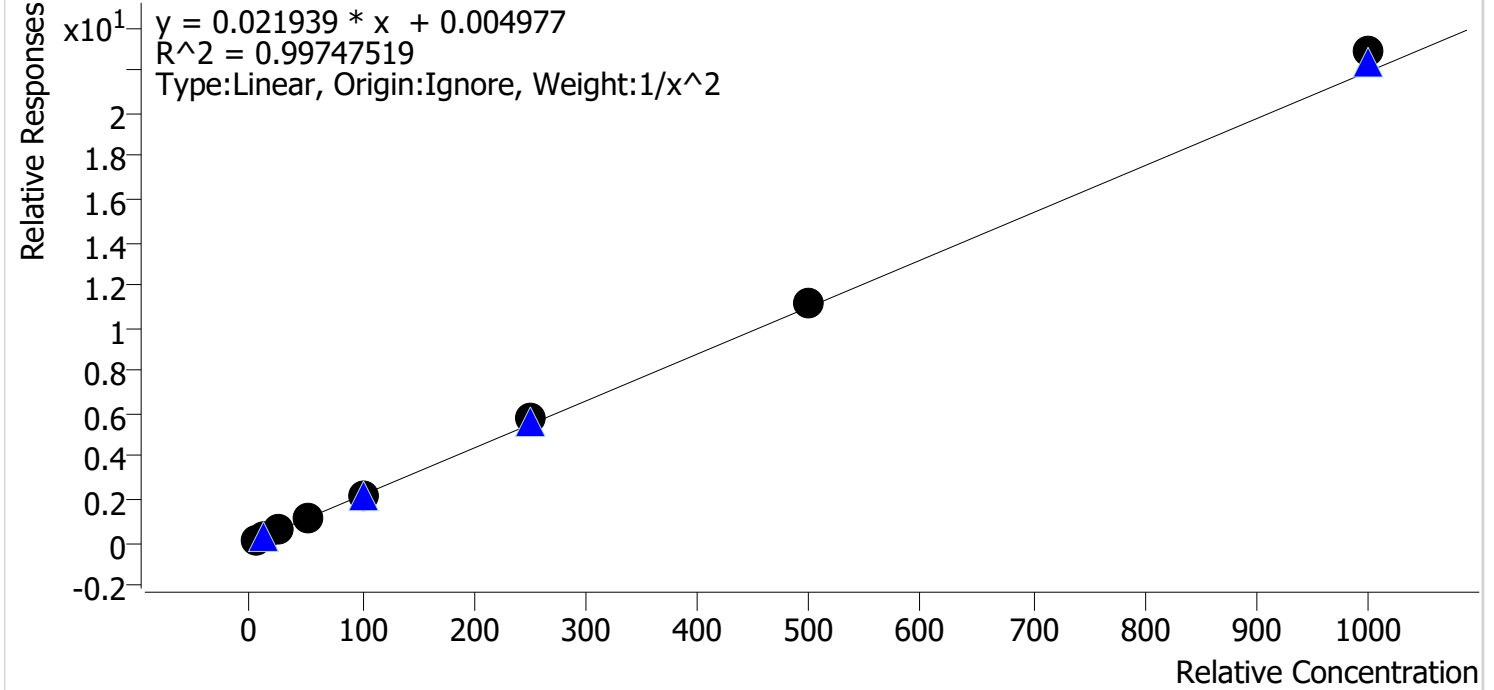


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.7
cal 2 mdq	2	✓	10.0	11.0	109.6
cal 3 mdq	3	✓	25.0	23.0	91.9
cal 4 mdq	4	✓	50.0	52.7	105.3
cal 5 mdq	5	✓	100.0	117.4	117.4
cal 6 mdq	6	✓	250.0	231.9	92.7
cal 7 mdq	7	✓	500.0	460.3	92.1
cal 8 mdq	8	✓	1000.0	952.6	95.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
 Last Cal. Update 7/25/2024 12:24 PM
 Analyst Name ISP\datastor
 Analyte EDDP Internal Standard EDDP-D3

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

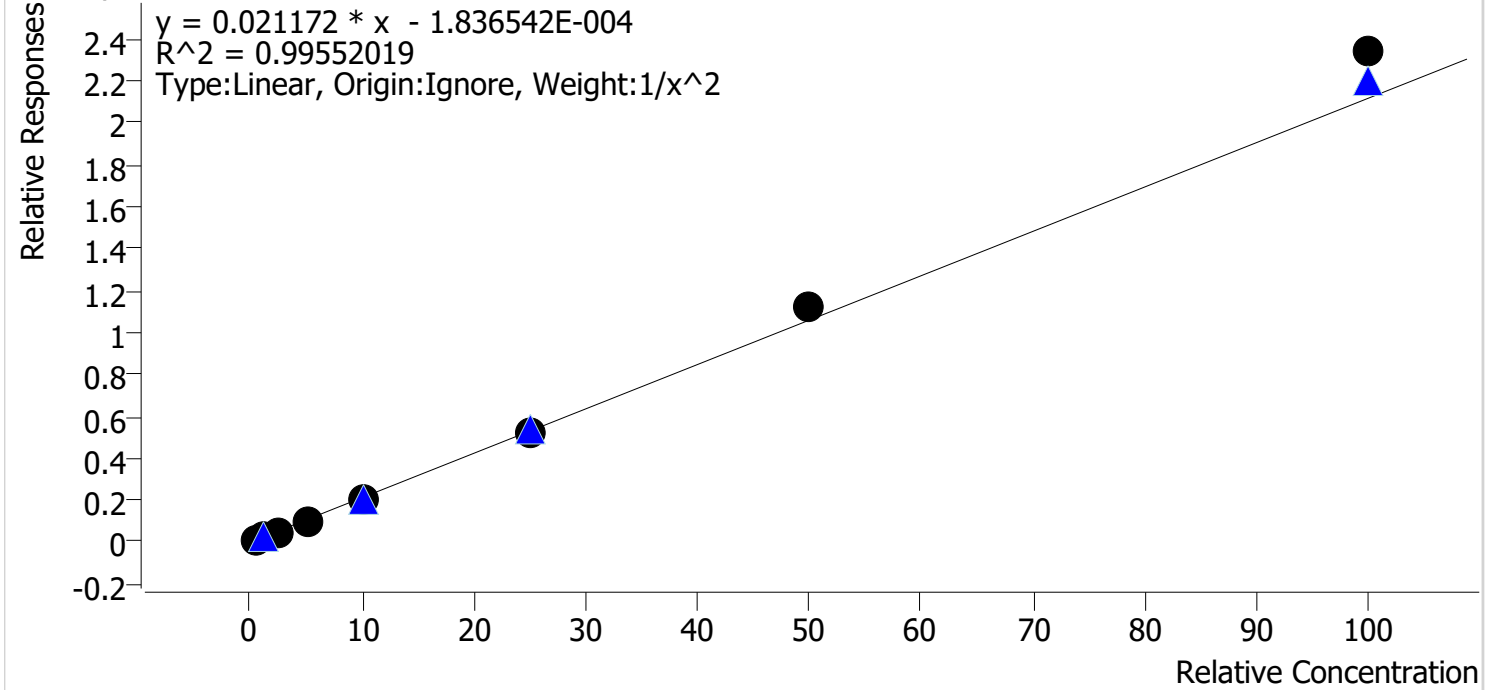


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	104.5
cal 2 mdq	2	✓	10.0	9.3	92.7
cal 3 mdq	3	✓	25.0	24.2	96.7
cal 4 mdq	4	✓	50.0	48.8	97.7
cal 5 mdq	5	✓	100.0	98.2	98.2
cal 6 mdq	6	✓	250.0	261.1	104.4
cal 7 mdq	7	✓	500.0	507.5	101.5
cal 8 mdq	8	✓	1000.0	1042.7	104.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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

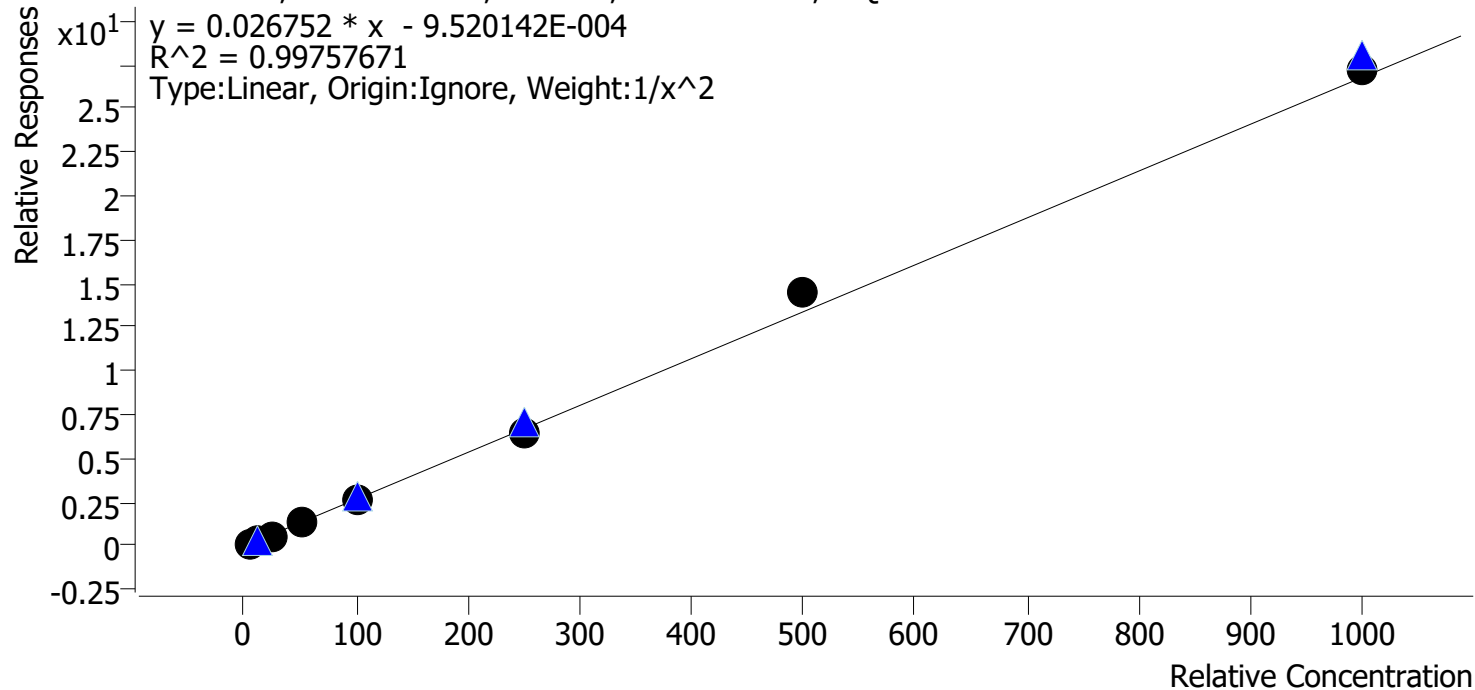


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	102.4
cal 2 mdq	2	✓	1.0	1.0	98.2
cal 3 mdq	3	✓	2.5	2.4	96.7
cal 4 mdq	4	✓	5.0	4.7	94.2
cal 5 mdq	5	✓	10.0	9.5	94.6
cal 6 mdq	6	✓	25.0	24.3	97.4
cal 7 mdq	7	✓	50.0	53.0	106.1
cal 8 mdq	8	✓	100.0	110.5	110.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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

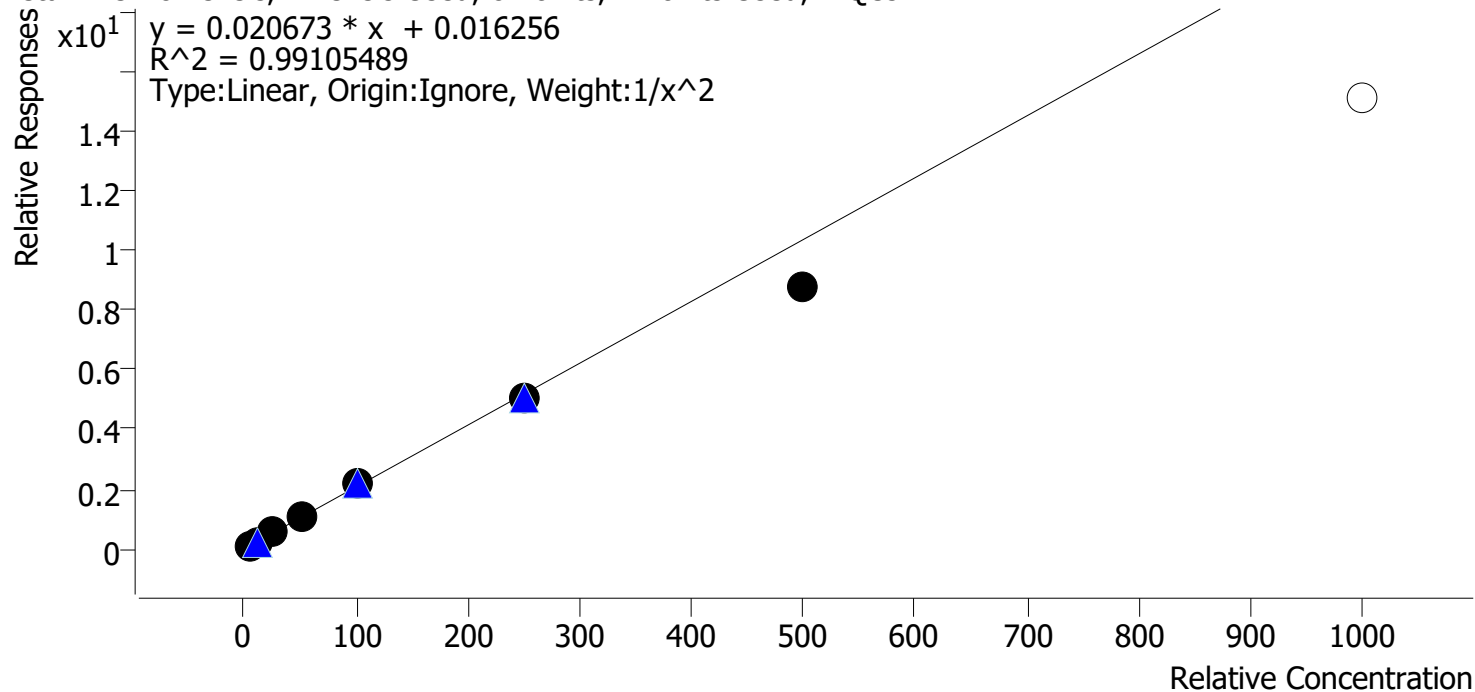


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.7
cal 2 mdq	2	✓	10.0	9.9	99.4
cal 3 mdq	3	✓	25.0	23.5	93.9
cal 4 mdq	4	✓	50.0	48.6	97.1
cal 5 mdq	5	✓	100.0	101.4	101.4
cal 6 mdq	6	✓	250.0	242.5	97.0
cal 7 mdq	7	✓	500.0	540.7	108.1
cal 8 mdq	8	✓	1000.0	1013.1	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

Ketamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

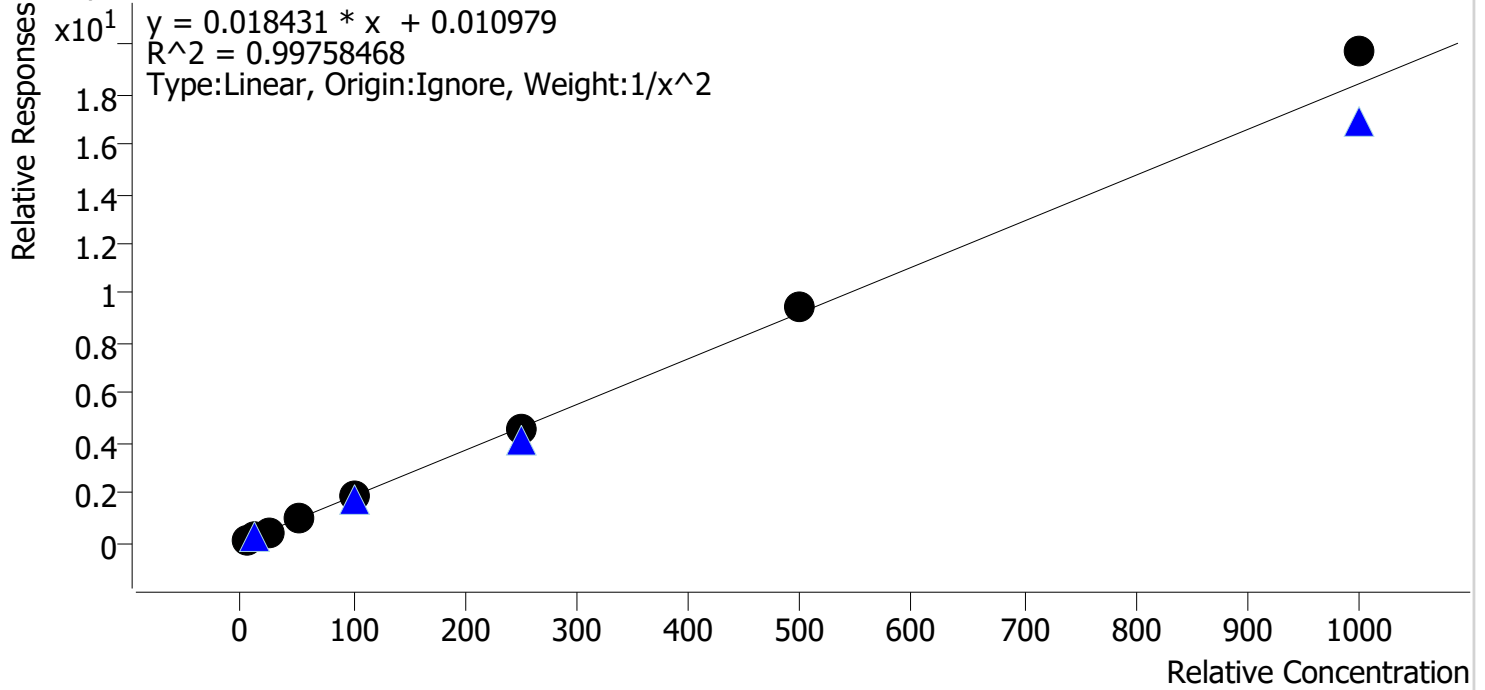


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.8
cal 2 mdq	2	✓	10.0	10.2	102.0
cal 3 mdq	3	✓	25.0	26.8	107.2
cal 4 mdq	4	✓	50.0	53.6	107.2
cal 5 mdq	5	✓	100.0	104.1	104.1
cal 6 mdq	6	✓	250.0	246.4	98.6
cal 7 mdq	7	✓	500.0	420.8	84.2
cal 8 mdq	8	✗	1000.0	727.2	72.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Oxazepam-D5

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

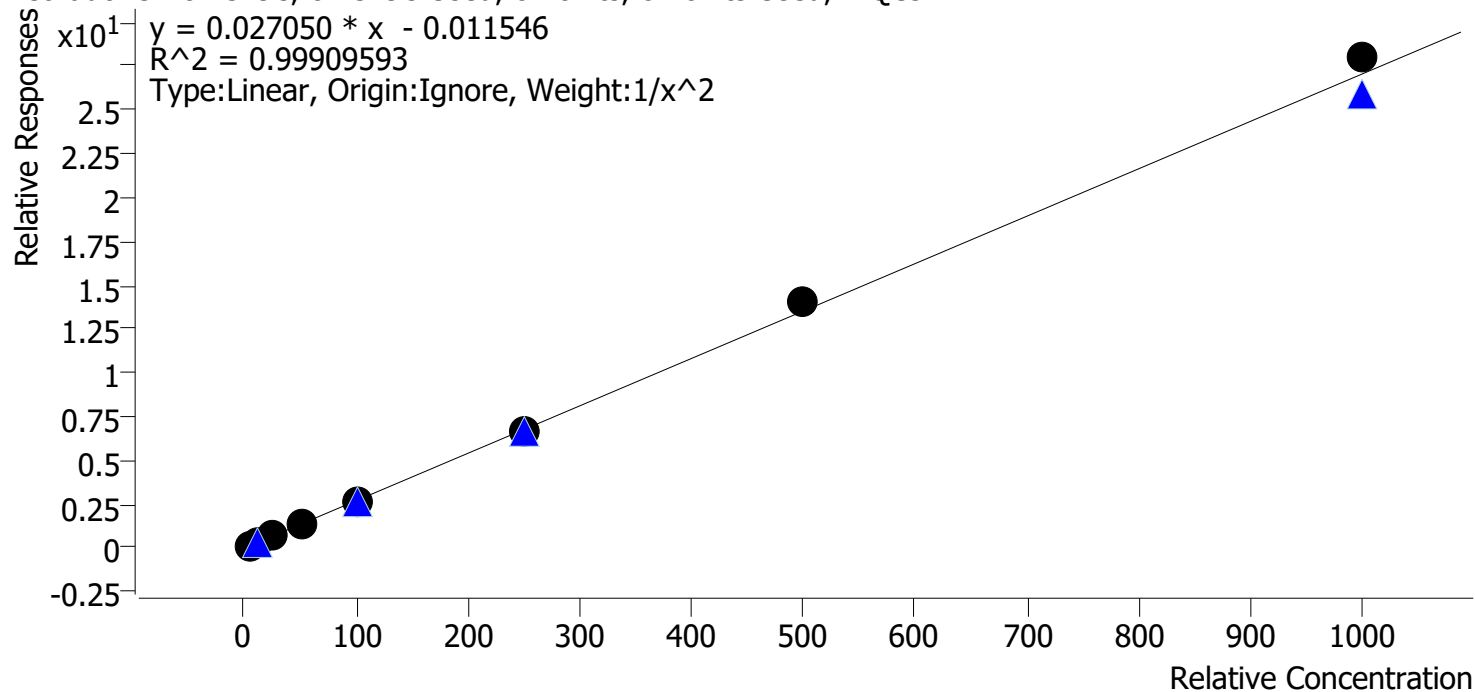


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.7
cal 2 mdq	2	✓	10.0	10.2	102.2
cal 3 mdq	3	✓	25.0	23.2	92.7
cal 4 mdq	4	✓	50.0	48.8	97.6
cal 5 mdq	5	✓	100.0	98.3	98.3
cal 6 mdq	6	✓	250.0	246.1	98.5
cal 7 mdq	7	✓	500.0	515.5	103.1
cal 8 mdq	8	✓	1000.0	1070.0	107.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

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

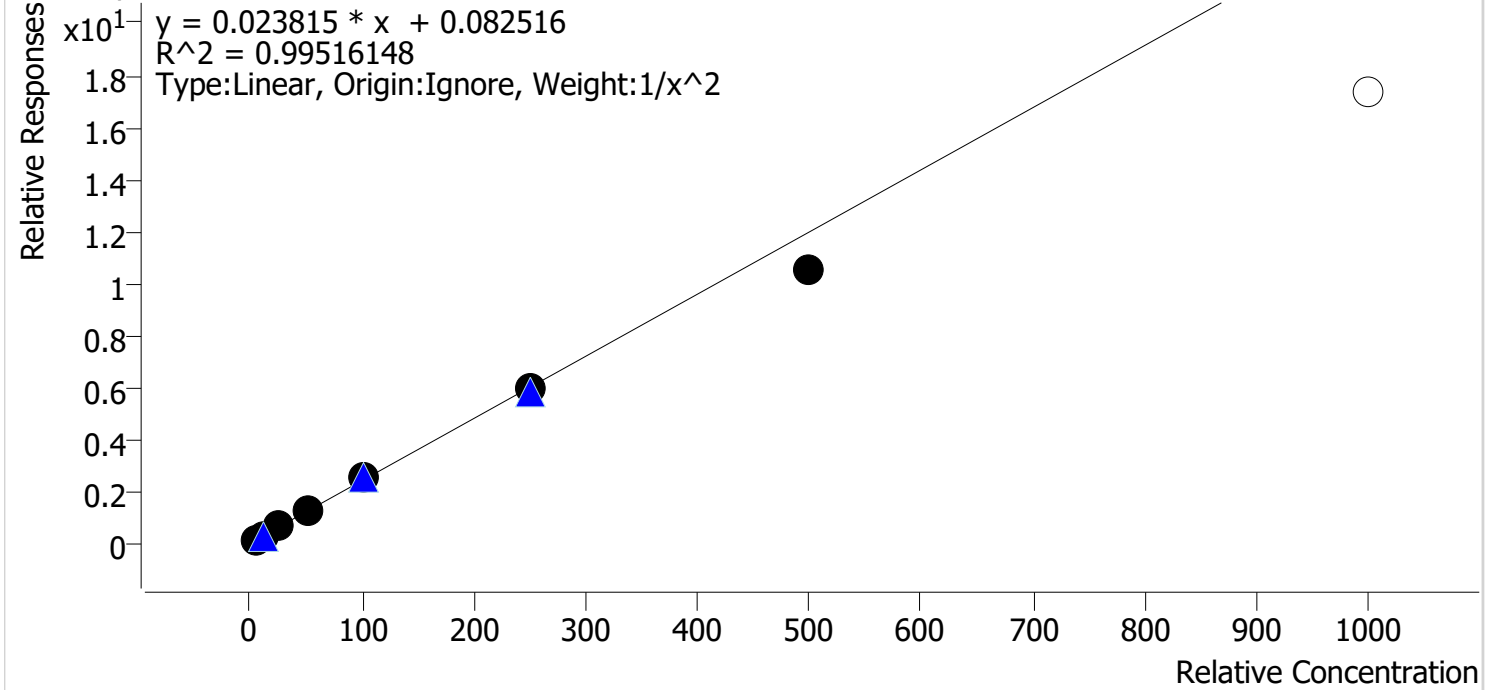


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.3
cal 2 mdq	2	✓	10.0	10.1	101.1
cal 3 mdq	3	✓	25.0	24.1	96.4
cal 4 mdq	4	✓	50.0	50.0	100.0
cal 5 mdq	5	✓	100.0	98.1	98.1
cal 6 mdq	6	✓	250.0	243.3	97.3
cal 7 mdq	7	✓	500.0	516.6	103.3
cal 8 mdq	8	✓	1000.0	1034.5	103.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

Methamphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

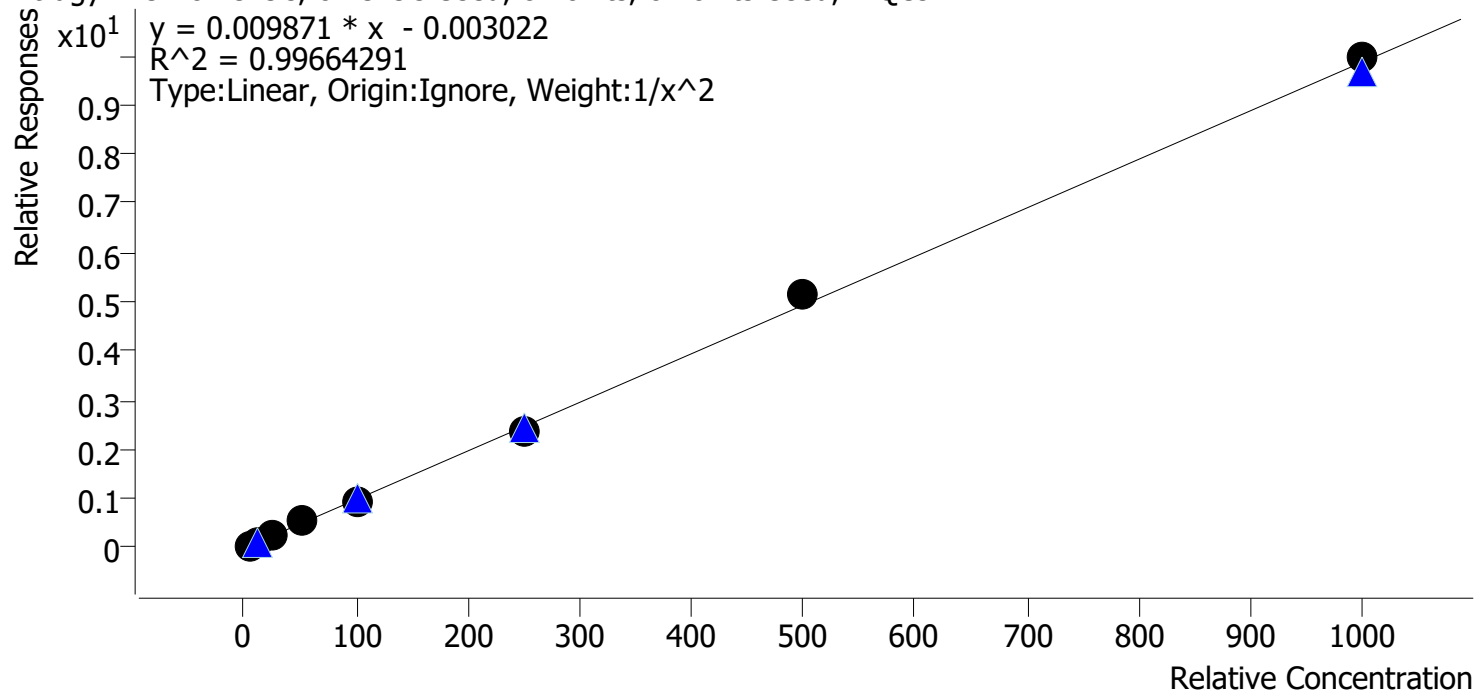


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.4
cal 2 mdq	2	✓	10.0	10.5	105.0
cal 3 mdq	3	✓	25.0	25.9	103.4
cal 4 mdq	4	✓	50.0	51.9	103.8
cal 5 mdq	5	✓	100.0	102.8	102.8
cal 6 mdq	6	✓	250.0	250.8	100.3
cal 7 mdq	7	✓	500.0	441.4	88.3
cal 8 mdq	8	✗	1000.0	726.2	72.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Ketamine-D4

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

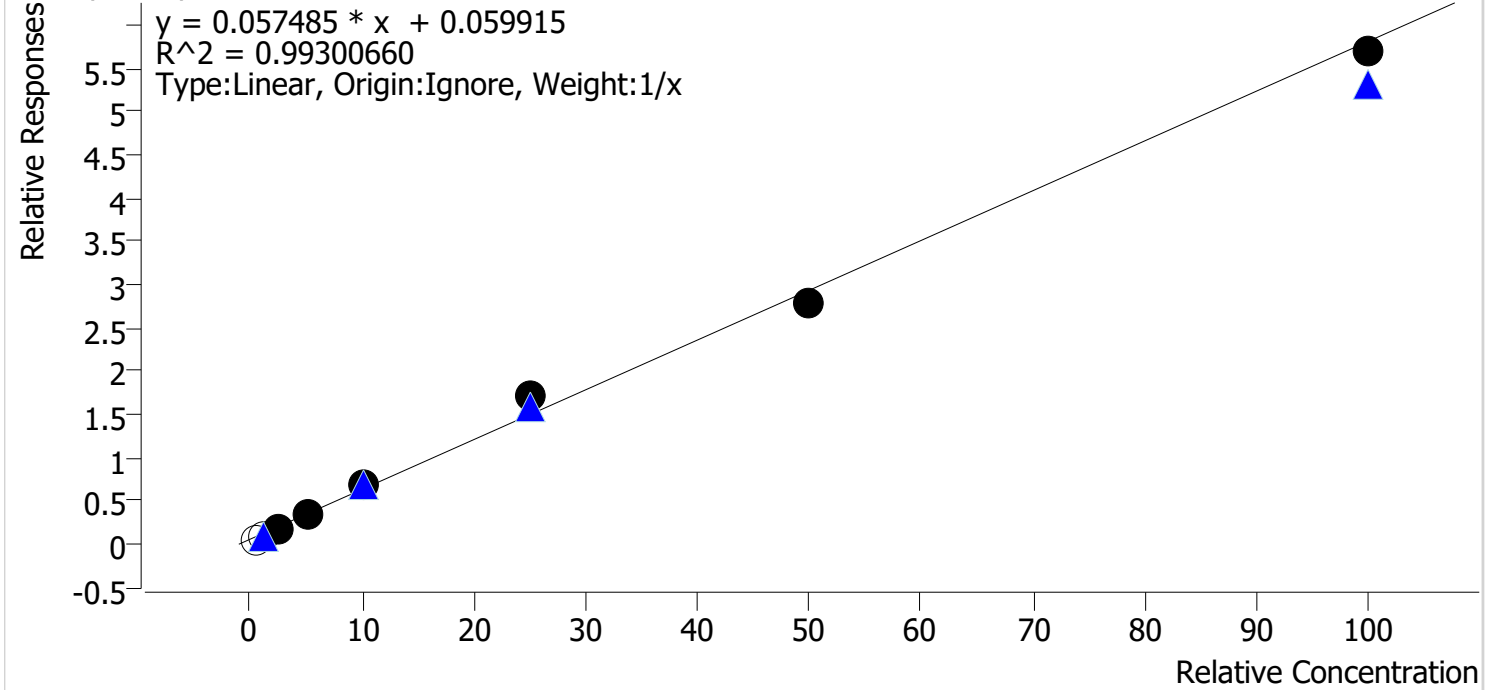


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.1
cal 2 mdq	2	✓	10.0	10.4	104.3
cal 3 mdq	3	✓	25.0	24.3	97.4
cal 4 mdq	4	✓	50.0	53.2	106.5
cal 5 mdq	5	✓	100.0	92.9	92.9
cal 6 mdq	6	✓	250.0	236.6	94.6
cal 7 mdq	7	✓	500.0	525.9	105.2
cal 8 mdq	8	✓	1000.0	1009.5	100.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 8 Levels, 6 Levels Used, 8 Points, 6 Points Used, 4 QCs

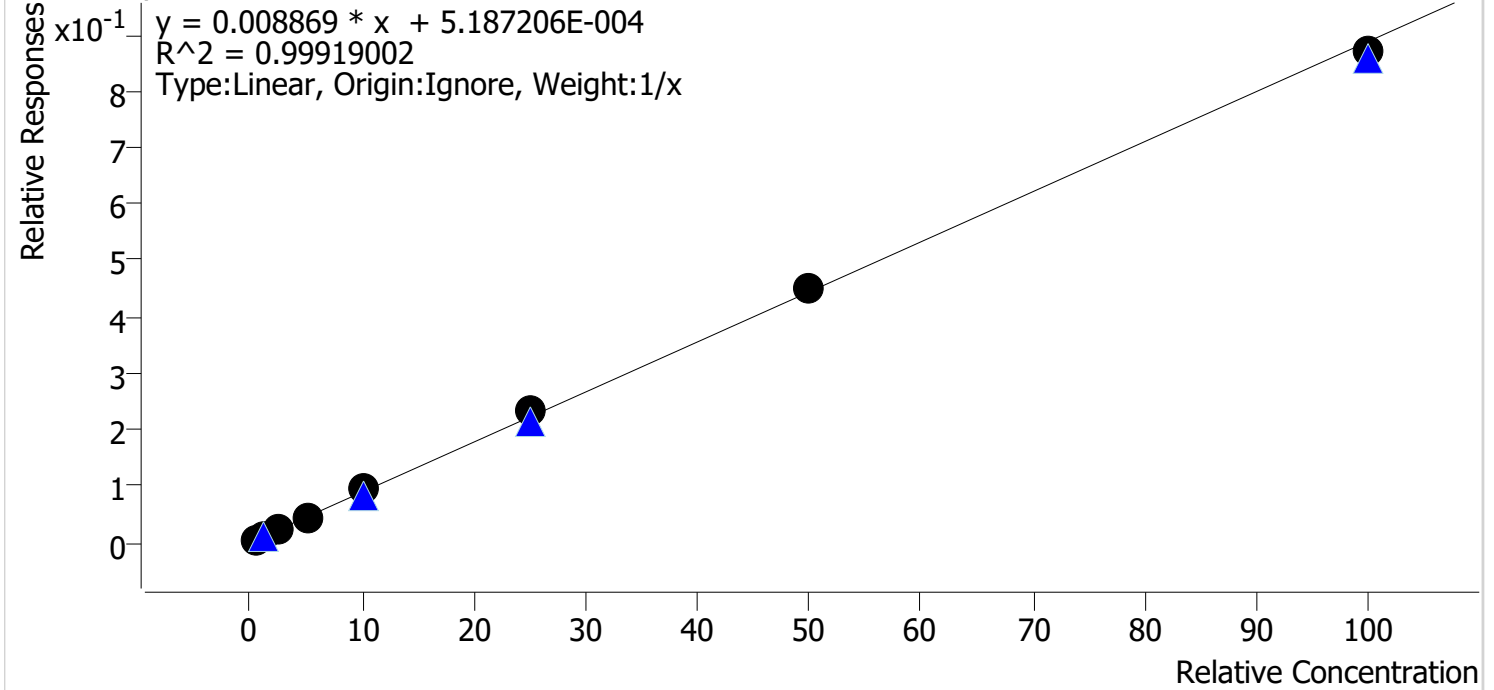


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	0.5	0.0	0.0
cal 2 mdq	2	x	1.0	0.5	53.7
cal 3 mdq	3	✓	2.5	2.1	84.7
cal 4 mdq	4	✓	5.0	4.8	95.5
cal 5 mdq	5	✓	10.0	11.0	110.4
cal 6 mdq	6	✓	25.0	29.1	116.5
cal 7 mdq	7	✓	50.0	47.5	95.0
cal 8 mdq	8	✓	100.0	98.0	98.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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

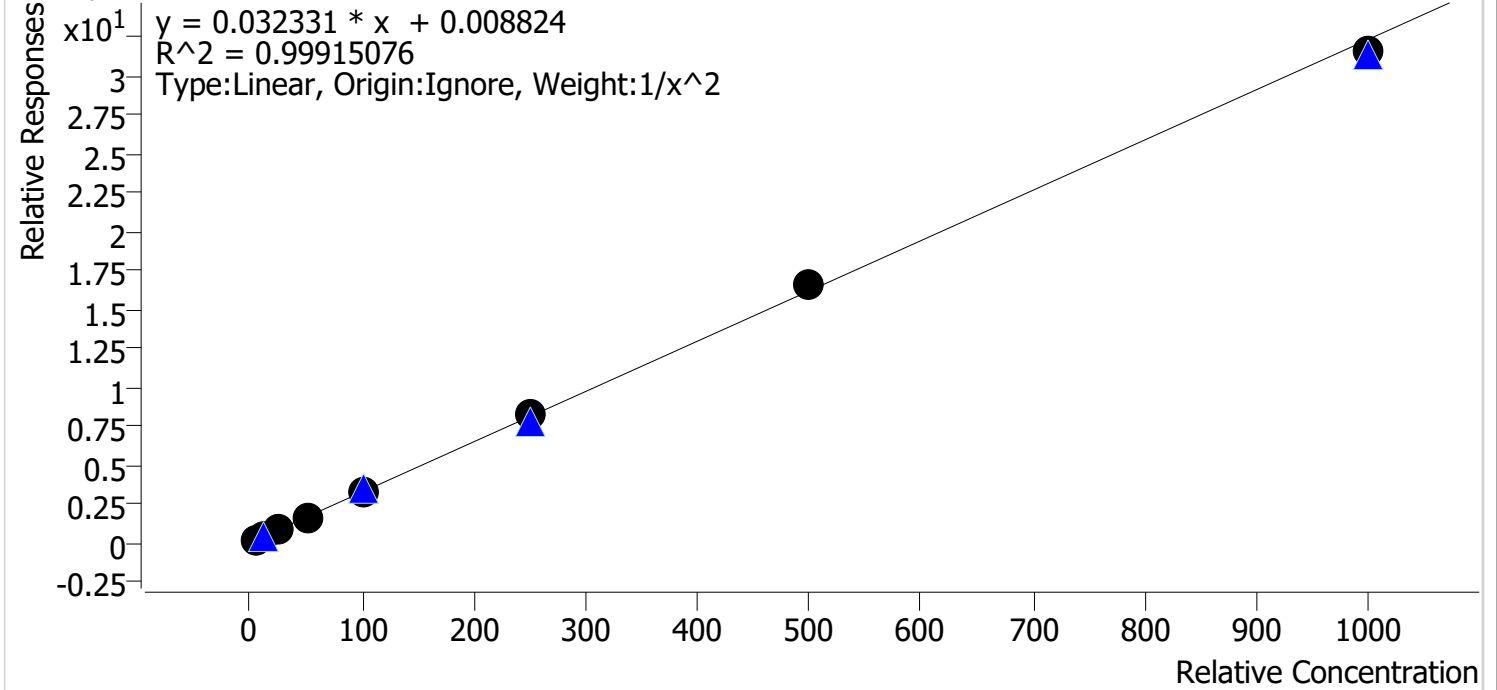


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	98.0
cal 2 mdq	2	✓	1.0	1.0	100.9
cal 3 mdq	3	✓	2.5	2.4	95.7
cal 4 mdq	4	✓	5.0	4.8	96.5
cal 5 mdq	5	✓	10.0	10.5	104.8
cal 6 mdq	6	✓	25.0	26.2	105.0
cal 7 mdq	7	✓	50.0	50.6	101.1
cal 8 mdq	8	✓	100.0	98.0	98.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

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

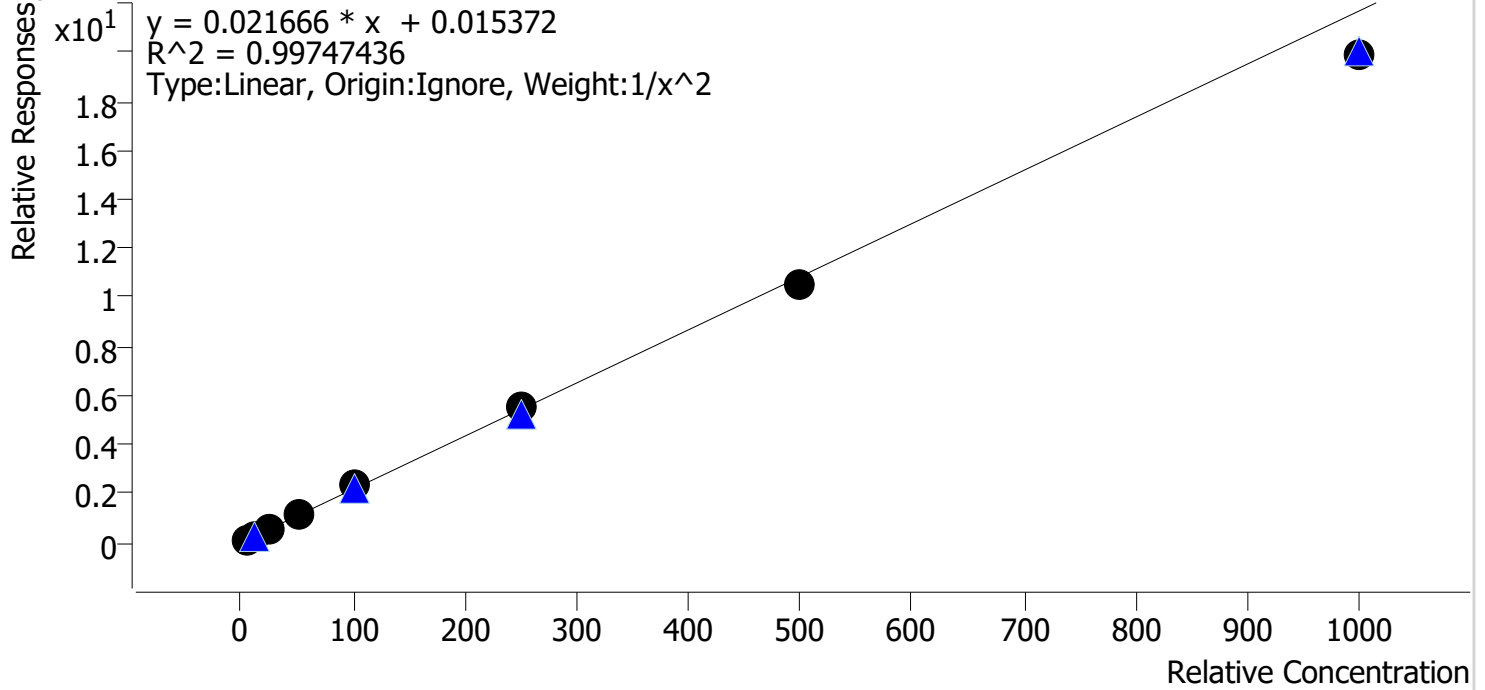


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.0
cal 2 mdq	2	✓	10.0	9.6	96.3
cal 3 mdq	3	✓	25.0	24.8	99.2
cal 4 mdq	4	✓	50.0	49.1	98.1
cal 5 mdq	5	✓	100.0	102.6	102.6
cal 6 mdq	6	✓	250.0	253.4	101.4
cal 7 mdq	7	✓	500.0	514.1	102.8
cal 8 mdq	8	✓	1000.0	975.8	97.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

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

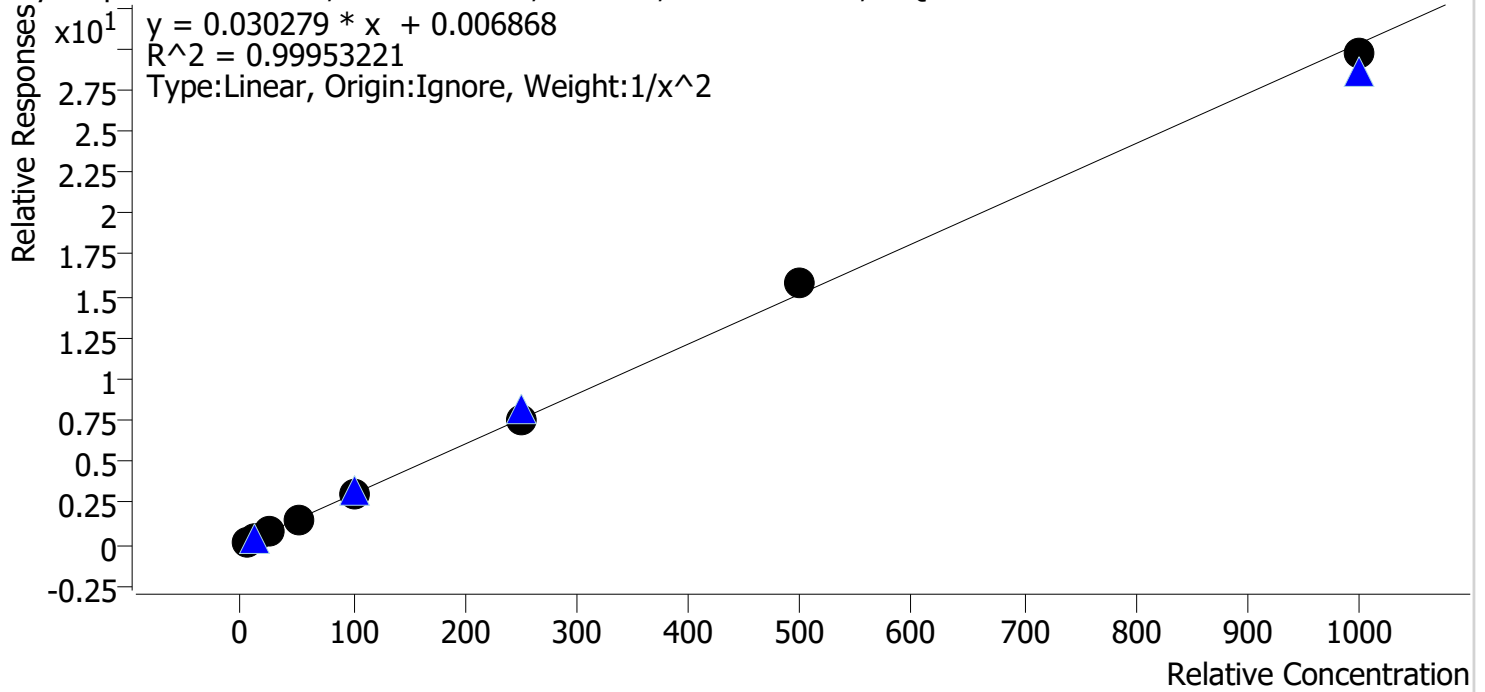


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.0
cal 2 mdq	2	✓	10.0	9.9	98.5
cal 3 mdq	3	✓	25.0	25.0	100.1
cal 4 mdq	4	✓	50.0	52.0	104.0
cal 5 mdq	5	✓	100.0	105.4	105.4
cal 6 mdq	6	✓	250.0	257.4	103.0
cal 7 mdq	7	✓	500.0	487.5	97.5
cal 8 mdq	8	✓	1000.0	915.2	91.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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

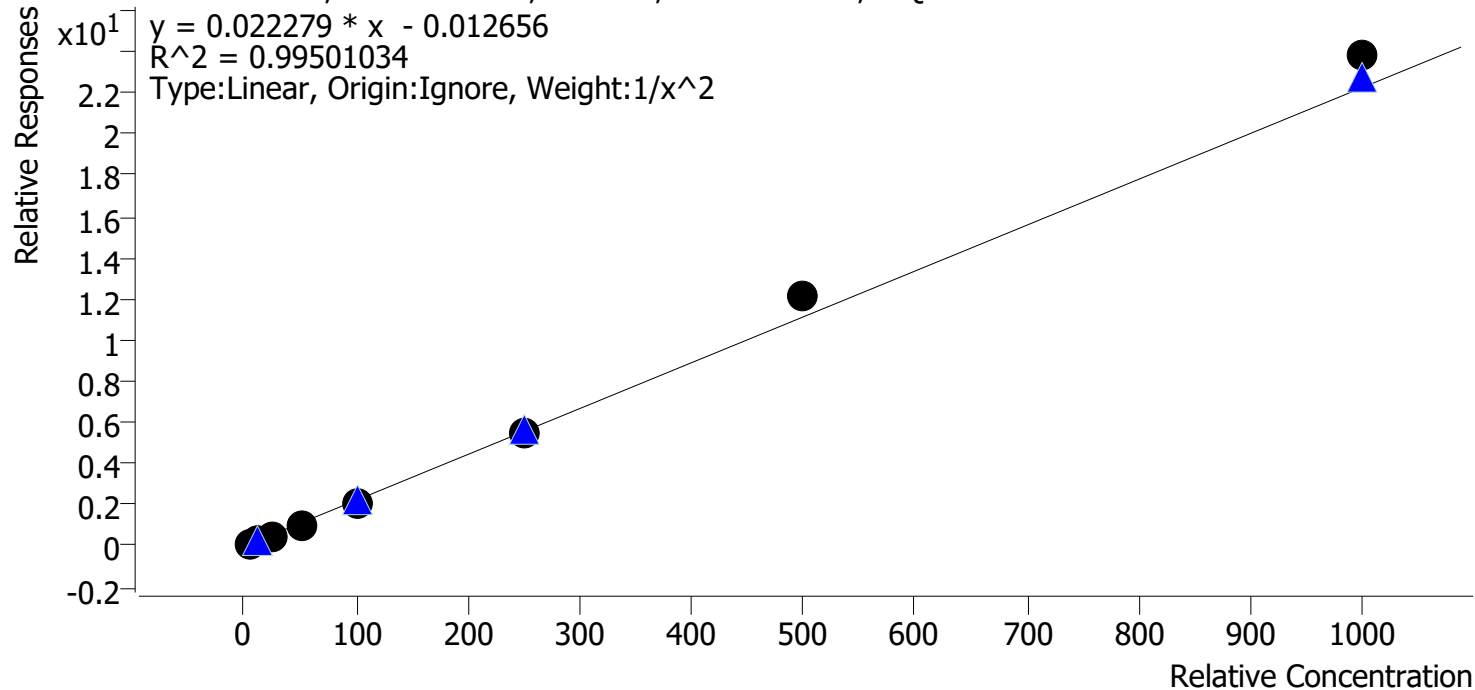


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.6
cal 2 mdq	2	✓	10.0	9.9	99.4
cal 3 mdq	3	✓	25.0	24.6	98.3
cal 4 mdq	4	✓	50.0	50.0	99.9
cal 5 mdq	5	✓	100.0	100.3	100.3
cal 6 mdq	6	✓	250.0	248.7	99.5
cal 7 mdq	7	✓	500.0	520.3	104.1
cal 8 mdq	8	✓	1000.0	979.9	98.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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

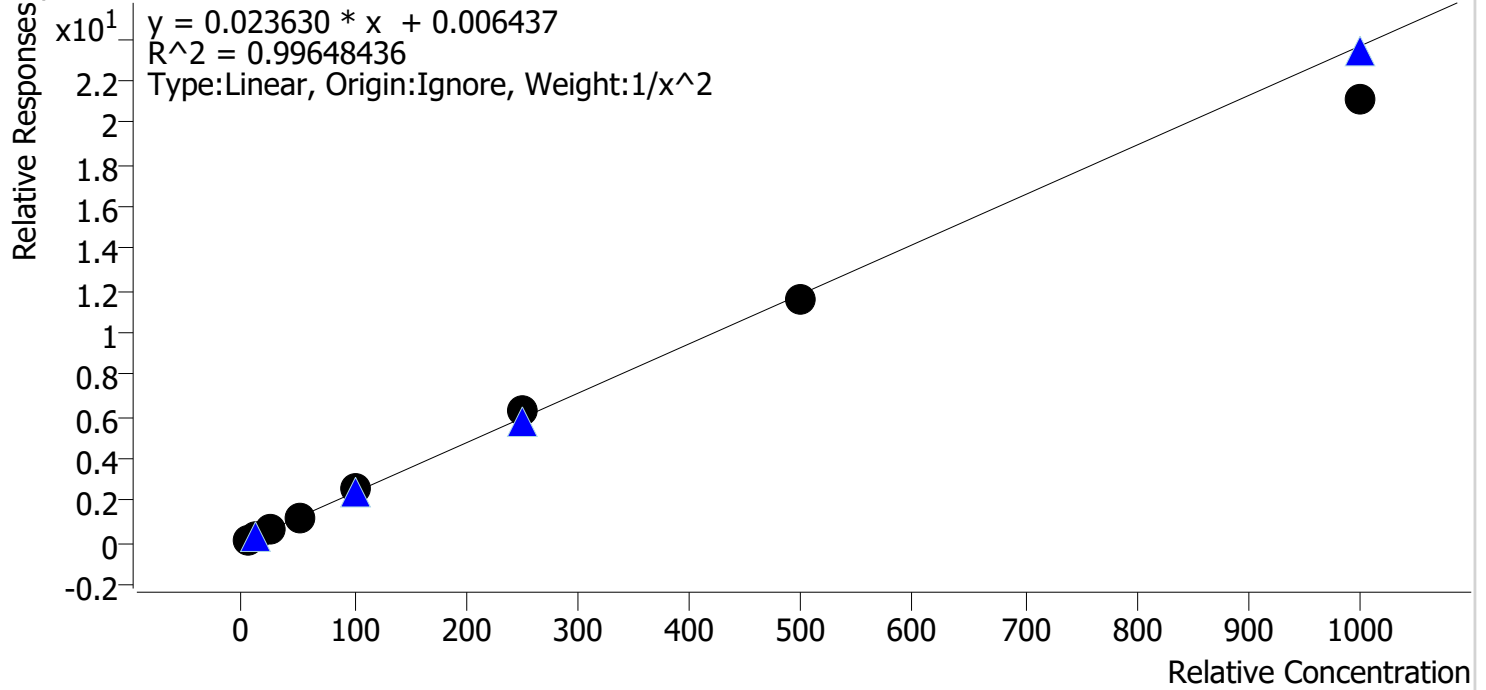


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	104.2
cal 2 mdq	2	✓	10.0	9.5	95.3
cal 3 mdq	3	✓	25.0	23.5	93.9
cal 4 mdq	4	✓	50.0	47.3	94.7
cal 5 mdq	5	✓	100.0	95.8	95.8
cal 6 mdq	6	✓	250.0	249.0	99.6
cal 7 mdq	7	✓	500.0	548.0	109.6
cal 8 mdq	8	✓	1000.0	1069.9	107.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

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

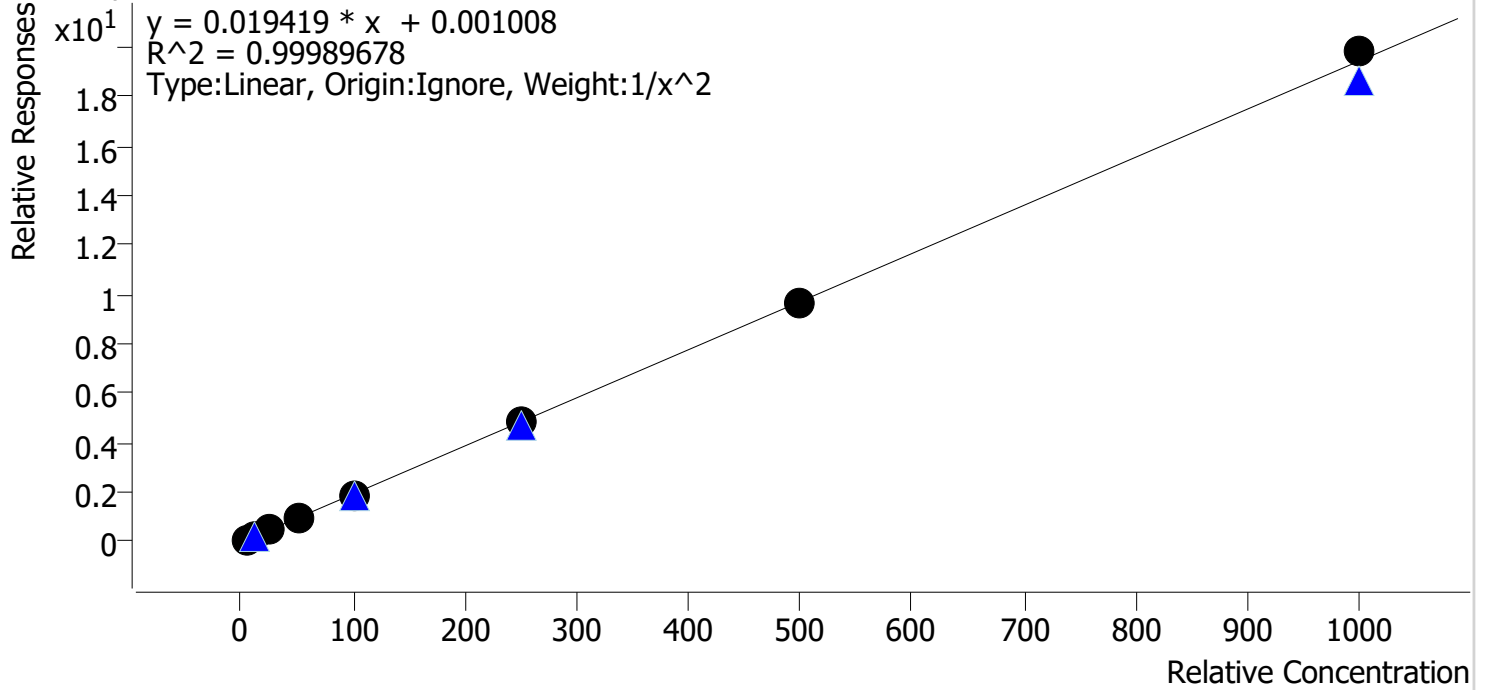


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.2
cal 2 mdq	2	✓	10.0	10.1	100.6
cal 3 mdq	3	✓	25.0	25.0	100.0
cal 4 mdq	4	✓	50.0	50.6	101.3
cal 5 mdq	5	✓	100.0	106.7	106.7
cal 6 mdq	6	✓	250.0	262.1	104.8
cal 7 mdq	7	✓	500.0	489.8	98.0
cal 8 mdq	8	✓	1000.0	894.4	89.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Pseudoephedrine **Internal Standard** Pseudoephedrine-D3

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

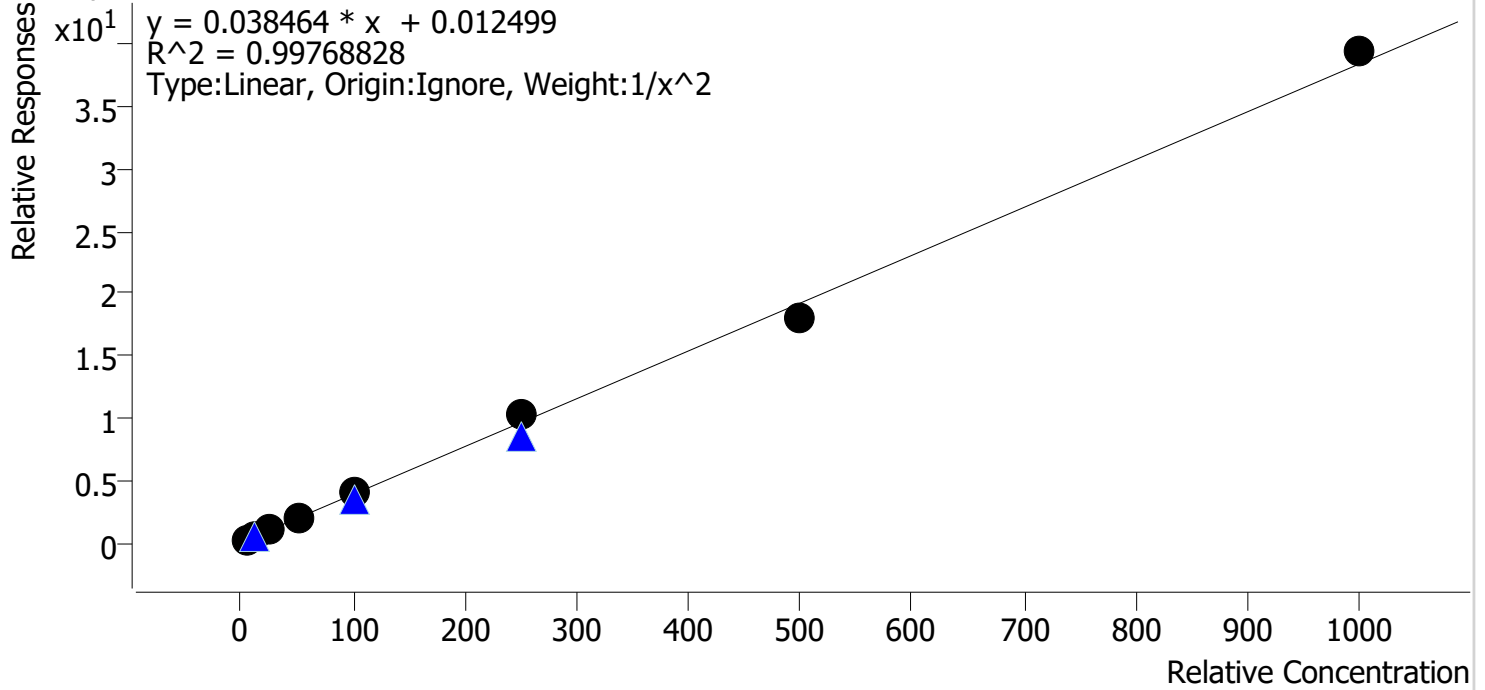


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.5
cal 2 mdq	2	✓	10.0	9.9	99.3
cal 3 mdq	3	✓	25.0	24.8	99.3
cal 4 mdq	4	✓	50.0	49.8	99.7
cal 5 mdq	5	✓	100.0	99.9	99.9
cal 6 mdq	6	✓	250.0	248.8	99.5
cal 7 mdq	7	✓	500.0	499.0	99.8
cal 8 mdq	8	✓	1000.0	1019.6	102.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Last Cal. Update 7/25/2024 12:24 PM
Analyst Name ISP\datastor
Analyte Olanzapine **Internal Standard** Olanzapine-d8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.9
cal 2 mdq	2	✓	10.0	9.8	98.2
cal 3 mdq	3	✓	25.0	23.6	94.2
cal 4 mdq	4	✓	50.0	50.3	100.6
cal 5 mdq	5	✓	100.0	101.5	101.5
cal 6 mdq	6	✓	250.0	266.4	106.6
cal 7 mdq	7	✓	500.0	472.8	94.6
cal 8 mdq	8	✓	1000.0	1025.7	102.6

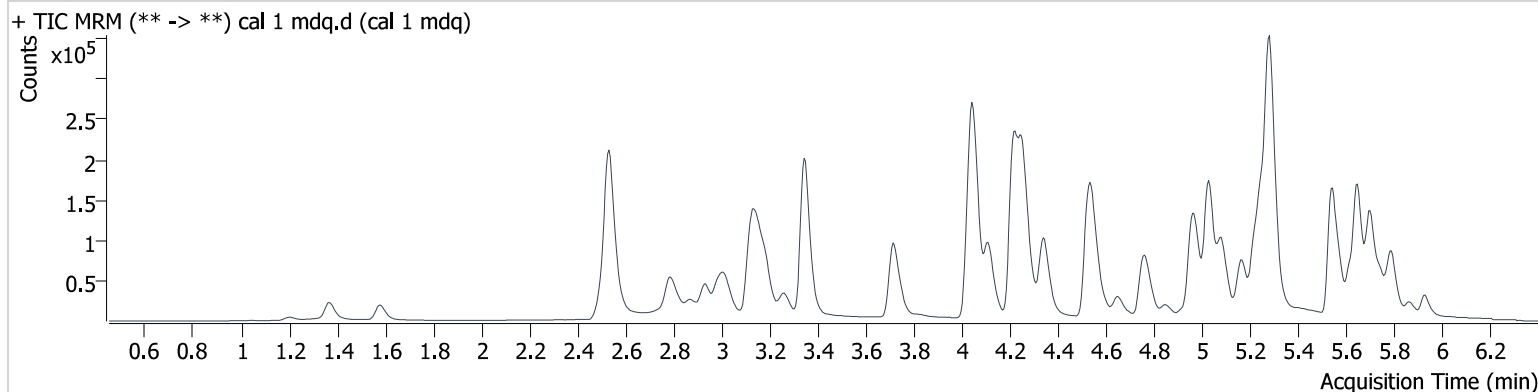
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-A5
Injection Volume 2
Acq. Date-Time 7/24/2024 12:59:35 PM
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.
6-MAM	3.126	599	6662.1	133.07	∞	30652	0.496 ng/ml
7-aminoclonazepam	4.239	6673	6025.9	113.36	∞	57981	4.773 ng/ml
a-hydroxyalprazolam	5.675	917	569.4	44.76 Low	76.5	65044	3.750 ng/ml
Alprazolam	5.749	10516	371.4	87.75	709.2	65044	5.177 ng/ml
Amphetamine	3.013	25051	856.0	216.00	2005.2	116261	4.738 ng/ml
Buprenorphine	5.886	785	∞	21.46 High	239.4	23986	0.552 ng/ml
Clonazepam	5.587	1132	2913.4	38.06	813.4	5250	4.784 ng/ml
EDDP	5.254	22314	693.9	41.52	642.3	186537	5.226 ng/ml
Fentanyl	5.097	2524	80.7	142.40	1371.4	236950	0.512 ng/ml
Fluoxetine	5.702	17838	∞	5.99	15800.0	132009	5.087 ng/ml
Ketamine	4.042	19420	4358.2	36.31	311.5	166932	4.841 ng/ml
Lorazepam	5.727	1109	127.7	53.24	10.1	10690	5.033 ng/ml
Methadone	5.650	35355	1451.2	55.11	946.5	284943	5.014 ng/ml
Methamphetamine	3.186	60218	870.0	35.71	276.7	305149	4.821 ng/ml
Mitragynine	5.240	7579	14490.3	40.24	∞	166932	4.906 ng/ml
Norfentanyl	4.068	1743	355.8	34.25	77.0	358251	0.490 ng/ml
Noroxycodone	2.891	9752	∞	42.28	∞	56117	5.102 ng/ml
Olanzapine	4.602	3942	1073.3	46.38	553.7	18914	5.093 ng/ml
Oxycodone	2.814	20639	∞	28.91	1164.8	166774	5.002 ng/ml
Oxymorphone	1.370	10532	∞	43.59	∞	66150	5.032 ng/ml
Promethazine	5.541	32738	498439.8	30.16	∞	316594	5.210 ng/ml
Pseudoephedrine	2.543	52310	2316.7	16.08	1760.0	530449	5.026 ng/ml
Zolpidem	4.979	46589	∞	29.82	∞	376743	4.961 ng/ml

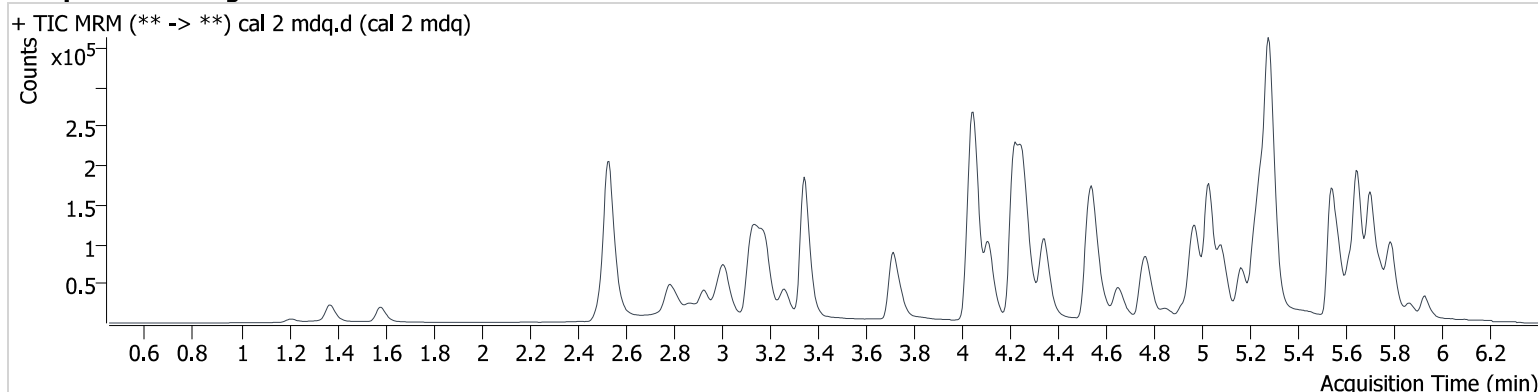
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-B5
Injection Volume 2
Acq. Date-Time 7/24/2024 1:08:26 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.
6-MAM	3.121	941	∞	133.11	5812.5	24371	1.028 ng/ml
7-aminoclonazepam	4.239	10841	35551.8	109.21	515072.7	48087	10.392 ng/ml
a-hydroxyalprazolam	5.670	1820	83.9	49.27	236.7	58614	10.950 ng/ml
Alprazolam	5.749	16476	9847.5	94.58	14429.8	58614	9.315 ng/ml
Amphetamine	3.007	41681	958.4	224.65	24791.2	103348	10.540 ng/ml
Buprenorphine	5.891	1499	80.8	13.72	∞	24644	0.978 ng/ml
Clonazepam	5.582	2099	15449.6	31.11	6237.7	3832	10.956 ng/ml
EDDP	5.248	38942	8452.3	42.70	1328.3	186945	9.268 ng/ml
Fentanyl	5.091	4426	93.7	133.61	1126.0	214755	0.982 ng/ml
Fluoxetine	5.702	42491	79720.2	8.44	3538.0	160442	9.935 ng/ml
Ketamine	4.042	31927	4403.4	38.90	435.9	140555	10.201 ng/ml
Lorazepam	5.717	1894	1453.1	57.72	20.2	9502	10.218 ng/ml
Methadone	5.645	74131	5138.8	48.79	7537.9	283102	10.107 ng/ml
Methamphetamine	3.186	88468	1242.9	35.78	1738.8	266103	10.495 ng/ml
Mitragynine	5.235	14046	23730.7	33.57	8492.9	140555	10.431 ng/ml
Norbuprenorphine	4.977	502	503.2	71.18 Low	∞	5533	0.537 ng/ml
Norfentanyl	4.063	3124	361.6	29.53	111.9	329936	1.009 ng/ml
Noroxycodone	2.886	14979	970.6	40.11	∞	46793	9.628 ng/ml
Olanzapine	4.602	6408	4080.6	47.29	344.6	16428	9.816 ng/ml
Oxycodone	2.814	32013	∞	30.60	29702.4	139872	9.854 ng/ml
Oxymorphone	1.375	16996	∞	43.07	∞	55224	9.938 ng/ml
Promethazine	5.536	62597	∞	33.55	4368.4	313470	9.531 ng/ml
Pseudoephedrine	2.538	91164	11287.5	16.07	8740.3	470327	9.929 ng/ml
Zolpidem	4.979	75637	236157.5	31.94	∞	309836	10.059 ng/ml

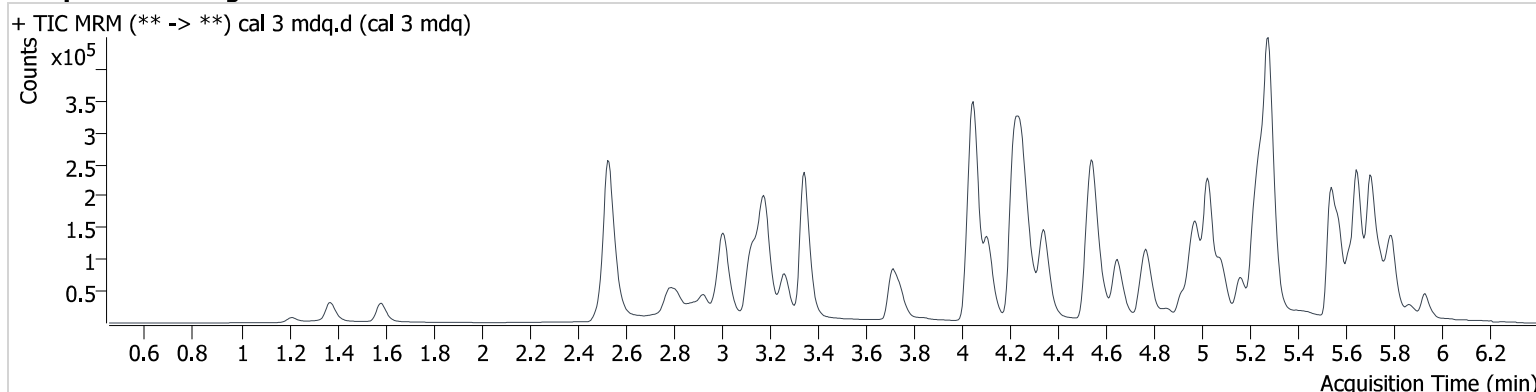
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-C5
Injection Volume 2
Acq. Date-Time 7/24/2024 1:17:08 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.
6-MAM	3.121	2143	∞	147.74	2544.1	24702	2.369 ng/ml
7-aminoclonazepam	4.239	25332	120176.9	113.44	8714.7	45447	27.295 ng/ml
a-hydroxyalprazolam	5.670	3326	1080.9	60.19	478.4	55555	23.196 ng/ml
Alprazolam	5.749	39813	1273.8	91.63	993.3	55555	24.411 ng/ml
Amphetamine	3.007	94815	4956.2	230.76	7386.9	100983	27.087 ng/ml
Buprenorphine	5.886	3531	∞	11.93	534.8	20501	2.668 ng/ml
Clonazepam	5.587	4933	20508.3	36.37	6015.3	4128	22.978 ng/ml
EDDP	5.243	86079	4504.9	45.43	1772.7	160769	24.179 ng/ml
Fentanyl	5.091	10306	1163.2	127.83	2779.1	202174	2.416 ng/ml
Fluoxetine	5.697	89438	45503.0	7.47	10365.5	142628	23.476 ng/ml
Ketamine	4.042	77362	66654.3	36.94	1120.6	135634	26.804 ng/ml
Lorazepam	5.722	4019	2650.7	51.15	26.5	9169	23.183 ng/ml
Methadone	5.645	159238	18321.4	51.46	3889.9	248600	24.107 ng/ml
Methamphetamine	3.186	186364	11723.2	36.18	∞	266871	25.858 ng/ml
Mitragynine	5.230	32188	132467.1	31.31	15775.3	135634	24.349 ng/ml
Norbuprenorphine	4.977	954	963.9	96.93	1254.9	5257	2.116 ng/ml
Norfentanyl	4.063	6733	290.7	34.17	339.9	309912	2.391 ng/ml
Noroxycodone	2.886	35227	∞	43.19	741.3	43473	24.791 ng/ml
Olanzapine	4.602	16521	29.6	52.35	577.2	17983	23.559 ng/ml
Oxycodone	2.814	76641	9664.9	29.47	349752.3	137439	25.029 ng/ml
Oxymorphone	1.375	41558	∞	42.35	∞	55358	24.566 ng/ml
Promethazine	5.536	152835	239250.1	29.24	2161.3	299582	23.467 ng/ml
Pseudoephedrine	2.538	217876	24730.8	16.42	∞	450783	24.837 ng/ml
Zolpidem	4.979	188940	175979.5	30.66	∞	316365	25.002 ng/ml

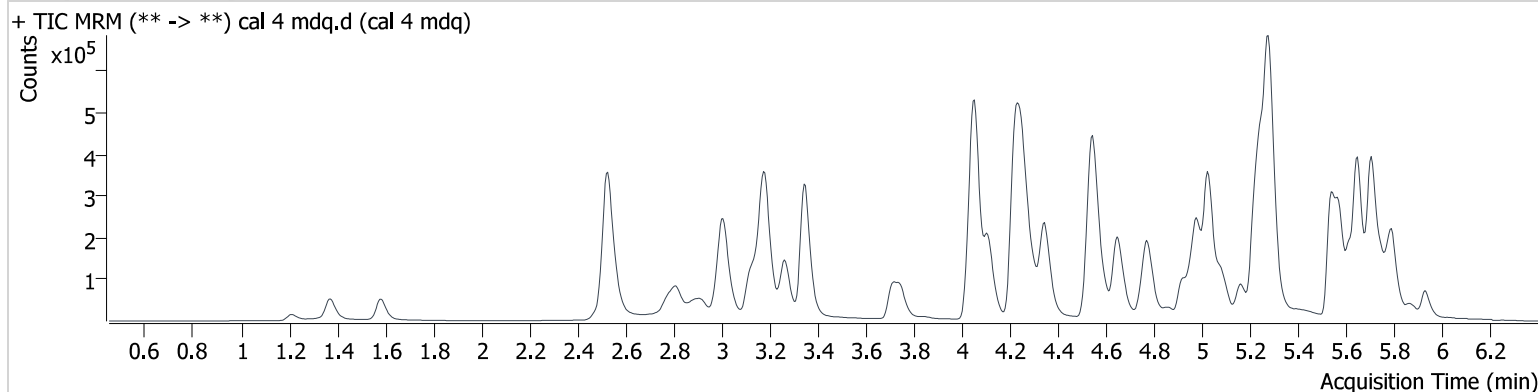
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-D5
Injection Volume 2
Acq. Date-Time 7/24/2024 1:25:51 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.
6-MAM	3.121	4654	∞	142.81	13014.1	25203	5.099 ng/ml
7-aminoclonazepam	4.239	47343	410099.6	111.33	75560.7	44381	53.233 ng/ml
a-hydroxyalprazolam	5.670	6548	826.5	64.15	829.5	56199	47.259 ng/ml
Alprazolam	5.749	83659	∞	92.09	∞	56199	51.168 ng/ml
Amphetamine	3.002	187054	4477.7	239.00	5236.9	101776	54.859 ng/ml
Buprenorphine	5.891	7653	5569.8	13.15	2711.3	23910	4.910 ng/ml
Clonazepam	5.582	11543	∞	35.57	6794.7	4133	52.670 ng/ml
EDDP	5.248	196866	8145.9	44.34	∞	182852	48.849 ng/ml
Fentanyl	5.091	22100	2352.0	131.49	3083.1	222068	4.709 ng/ml
Fluoxetine	5.702	192607	760965.7	7.53	41666.5	148397	48.552 ng/ml
Ketamine	4.042	155106	6987.0	38.86	2817.2	137988	53.586 ng/ml
Lorazepam	5.722	8454	637.2	55.64	174.4	9284	48.810 ng/ml
Methadone	5.645	364442	6635.6	49.59	20585.8	271760	50.003 ng/ml
Methamphetamine	3.181	363561	58809.0	37.12	3364.7	275733	51.901 ng/ml
Mitragynine	5.230	72105	91773.5	33.25	80261.1	137988	53.246 ng/ml
Norbuprenorphine	4.977	1891	4074.4	111.97	3027.9	5654	4.777 ng/ml
Norfentanyl	4.063	13724	1622.5	35.76	1486.6	317003	4.823 ng/ml
Noroxycodone	2.886	68956	∞	44.20	∞	43236	49.057 ng/ml
Olanzapine	4.602	42579	28960.3	50.88	544.0	21876	50.279 ng/ml
Oxycodone	2.809	163342	∞	28.43	∞	143070	51.986 ng/ml
Oxymorphone	1.370	90961	∞	42.95	∞	59846	49.969 ng/ml
Promethazine	5.536	330755	582118.0	30.78	37618.6	317438	47.337 ng/ml
Pseudoephedrine	2.528	445473	22756.3	16.58	9994.4	459837	49.835 ng/ml
Zolpidem	4.979	390416	33896.7	30.87	11172.3	324520	50.641 ng/ml

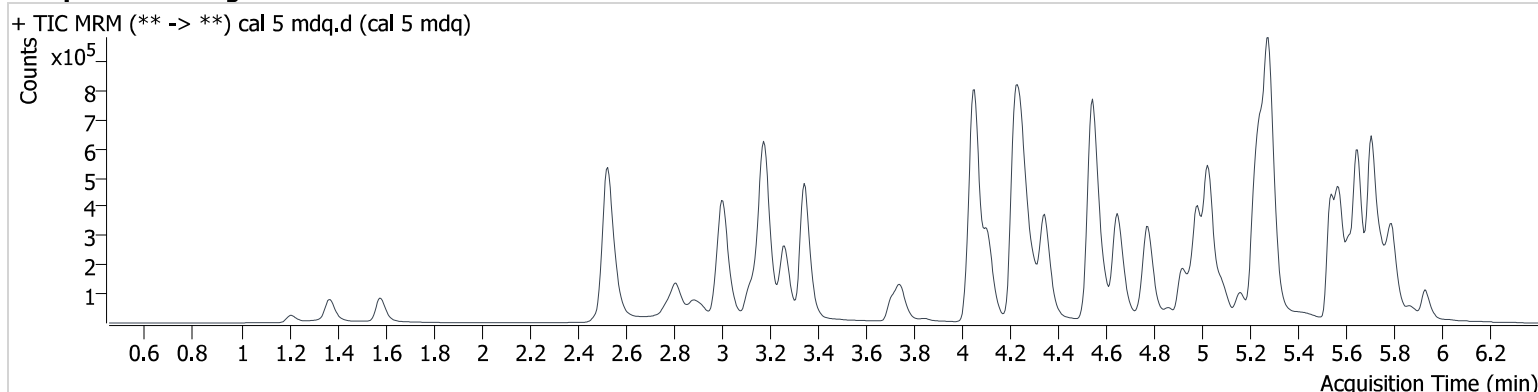
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-E5
Injection Volume 2
Acq. Date-Time 7/24/2024 1:34:32 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.
6-MAM	3.121	9341	∞	134.30	1594.2	24606	10.533 ng/ml
7-aminoclonazepam	4.233	82647	6144.7	109.52	295127.8	39125	106.479 ng/ml
a-hydroxyalprazolam	5.670	12674	910.3	62.21	1331.7	51861	101.579 ng/ml
Alprazolam	5.749	152478	2443.0	94.64	21311.9	51861	101.477 ng/ml
Amphetamine	3.002	344996	4453.6	231.06	14107.5	100354	104.284 ng/ml
Buprenorphine	5.891	13768	6330354113 6863.7	14.73	∞	21556	9.743 ng/ml
Clonazepam	5.582	21077	990.6	33.25	12218.1	3356	117.445 ng/ml
EDDP	5.248	315313	124684.3	44.29	11512.2	146040	98.189 ng/ml
Fentanyl	5.091	41439	2103.1	138.28	6282.8	207080	9.460 ng/ml
Fluoxetine	5.697	357405	∞	7.43	27588.4	131749	101.439 ng/ml
Ketamine	4.042	291055	54123.3	40.03	12909.0	134270	104.068 ng/ml
Lorazepam	5.722	14869	1353.8	52.93	177.7	8161	98.263 ng/ml
Methadone	5.645	675605	102599.7	48.98	121661.0	255622	98.134 ng/ml
Methamphetamine	3.181	699717	29647.9	36.72	406767.1	276589	102.763 ng/ml
Mitragynine	5.230	122755	2125235.1	37.90	32904.4	134270	92.929 ng/ml
Norbuprenorphine	4.982	3561	6956.2	97.97	∞	5128	11.037 ng/ml
Norfentanyl	4.063	25859	1969.1	33.40	1942.1	276567	10.484 ng/ml
Noroxycodone	2.881	129931	∞	43.08	∞	39056	102.627 ng/ml
Olanzapine	4.596	80333	22882.9	51.26	1307.3	20513	101.491 ng/ml
Oxycodone	2.809	306977	∞	28.76	∞	133587	105.355 ng/ml
Oxymorphone	1.370	168311	∞	42.36	∞	55308	100.275 ng/ml
Promethazine	5.536	622889	308251.9	29.56	12522.6	293659	95.777 ng/ml
Pseudoephedrine	2.528	871311	108272.5	16.61	93613.9	448981	99.881 ng/ml
Zolpidem	4.979	754484	56023.0	30.63	∞	298594	106.661 ng/ml

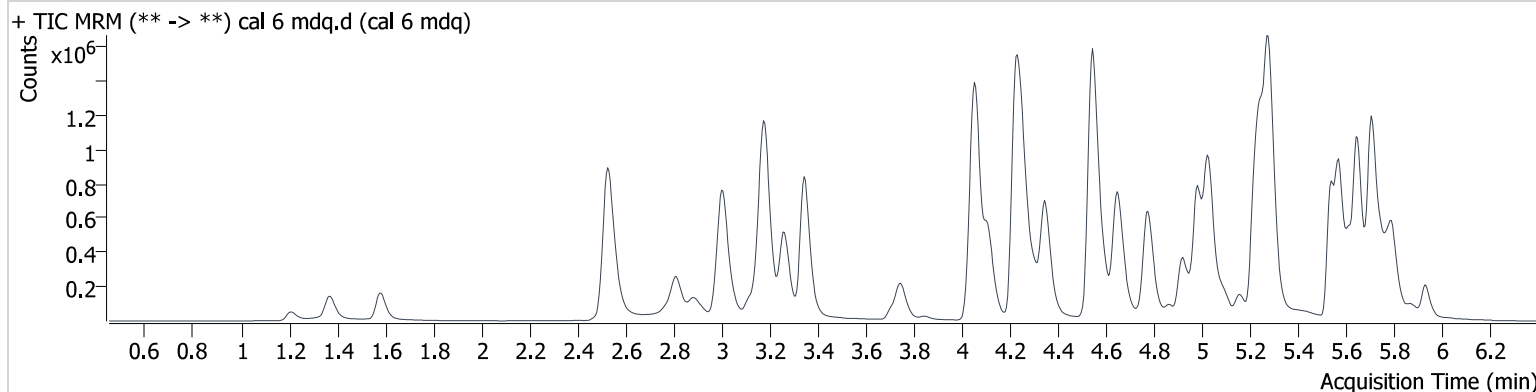
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2024\am 27-28\072324\QuantResults\am 28 samples.batch.bin
Calibration Last Update 7/25/2024 12:24:05 PM

Instrument 69679
Type Cal
Acq. Method mdqp1 121523.m
Sample Position P2-F5
Injection Volume 2
Acq. Date-Time 7/24/2024 1:43:12 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.
6-MAM	3.121	19784	14941.3	137.89	19501.3	21549	25.541 ng/ml
7-aminoclonazepam	4.239	144175	∞	110.48	783369.2	29742	245.755 ng/ml
a-hydroxyalprazolam	5.670	26592	10635.7	59.32	287.7	43234	259.048 ng/ml
Alprazolam	5.749	325008	7451.7	91.70	∞	43234	260.125 ng/ml
Amphetamine	3.002	623115	2853.7	236.18	2028.3	83331	229.084 ng/ml
Buprenorphine	5.891	31649	7759.4	15.97	29598.7	18203	26.424 ng/ml
Clonazepam	5.582	43715	35990.4	35.24	42097.9	3514	231.855 ng/ml
EDDP	5.248	656237	40961.8	42.79	17367.3	114468	261.092 ng/ml
Fentanyl	5.097	94466	6862.7	131.51	14681.0	183330	24.347 ng/ml
Fluoxetine	5.702	712759	874101.1	7.51	∞	109873	242.525 ng/ml
Ketamine	4.042	568248	49781.6	39.73	16138.5	111211	246.375 ng/ml
Lorazepam	5.722	29867	3574.6	51.23	∞	6568	246.138 ng/ml
Methadone	5.645	1385582	109037.0	50.02	573461.6	210930	243.269 ng/ml
Methamphetamine	3.181	1474911	∞	34.73	53466.7	243537	250.838 ng/ml
Mitragynine	5.235	259347	44671.6	36.38	456814.9	111211	236.568 ng/ml
Norbuprenorphine	4.982	6898	10520.1	99.32	4116.2	3977	29.129 ng/ml
Norfentanyl	4.063	50395	12477.2	34.25	1680.1	216044	26.243 ng/ml
Noroxycodone	2.881	258188	∞	42.46	∞	31479	253.420 ng/ml
Olanzapine	4.596	217073	5349.8	50.52	810.4	21155	266.450 ng/ml
Oxycodone	2.809	640886	∞	29.06	∞	114614	257.381 ng/ml
Oxymorphone	1.370	352991	∞	42.62	∞	46840	248.657 ng/ml
Promethazine	5.536	1384804	∞	28.90	44350.2	250226	248.976 ng/ml
Pseudoephedrine	2.528	1796082	59745.6	16.41	88613.6	371685	248.786 ng/ml
Zolpidem	4.979	1646076	55214.6	30.24	46709.8	265514	262.093 ng/ml

AM #28 Multi-Drug Quant. Results

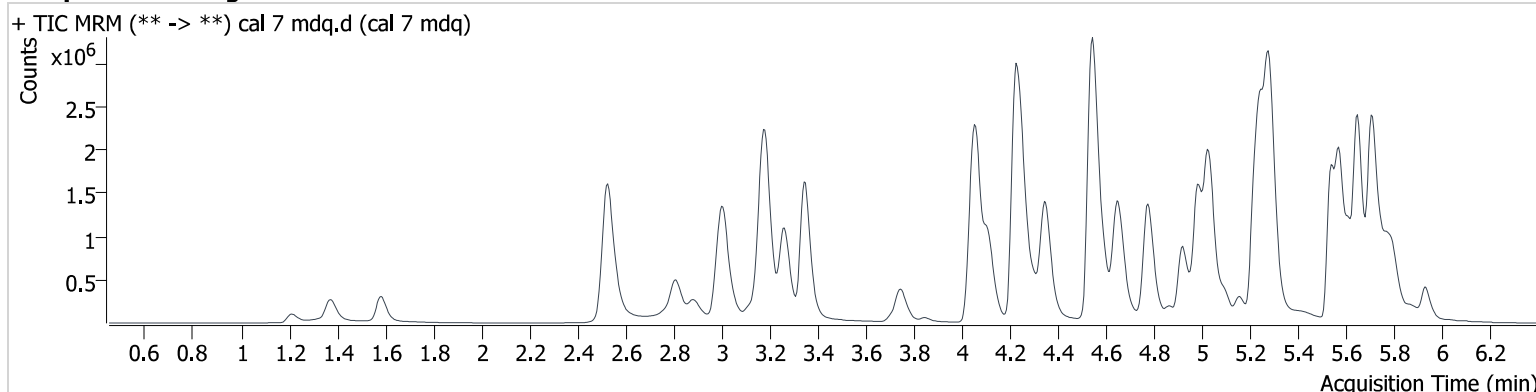
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Acq. Date-Time 7/24/2024 1:51:52 PM
Sample Info.

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.
6-MAM	3.121	41689	176934.1	138.80	10529.3	23981	48.408 ng/ml
7-aminoclonazepam	4.233	198235	∞	109.02	35786.2	25110	400.923 ng/ml
a-hydroxyalprazolam	5.670	52551	3390.1	56.61	3481.6	45628	487.019 ng/ml
Alprazolam	5.749	639171	22683.8	90.55	6710.6	45628	485.103 ng/ml
Amphetamine	3.002	1217408	28891.8	229.36	5553.6	87213	429.315 ng/ml
Buprenorphine	5.891	84475	22326.5	15.45	∞	26577	48.262 ng/ml
Clonazepam	5.582	84184	∞	35.40	7781941.0	3403	460.293 ng/ml
EDDP	5.248	1834735	120686.4	42.21	∞	164713	507.508 ng/ml
Fentanyl	5.097	251300	23785.3	137.24	40374.7	223832	53.038 ng/ml
Fluoxetine	5.697	1720595	192817.6	6.97	89551.9	118950	540.735 ng/ml
Ketamine	4.037	1045725	141282.3	39.53	44559.6	119973	420.834 ng/ml
Lorazepam	5.722	61344	1423.0	50.28	846.7	6450	515.456 ng/ml
Methadone	5.645	3507805	82324.5	49.56	∞	251217	516.627 ng/ml
Methamphetamine	3.181	3095315	∞	38.02	54351.8	292143	441.432 ng/ml
Mitragynine	5.230	622410	933736.8	35.71	531537.3	119973	525.901 ng/ml
Norbuprenorphine	4.982	13841	46426.5	98.39	24127.3	4961	47.488 ng/ml
Norfentanyl	4.068	81529	2270.0	32.86	5912.5	181565	50.572 ng/ml
Noroxycodone	2.881	561666	∞	43.12	∞	33774	514.111 ng/ml
Olanzapine	4.591	619823	4201.4	50.05	1236.1	34062	472.758 ng/ml
Oxycodone	2.804	1334837	∞	28.76	∞	126208	487.461 ng/ml
Oxymorphone	1.370	775351	∞	42.57	∞	49194	520.297 ng/ml
Promethazine	5.536	3371167	∞	29.64	135523.9	276427	547.975 ng/ml
Pseudoephedrine	2.528	3735379	∞	16.06	∞	385410	499.036 ng/ml
Zolpidem	4.979	3533803	277484.7	30.04	∞	305137	489.835 ng/ml

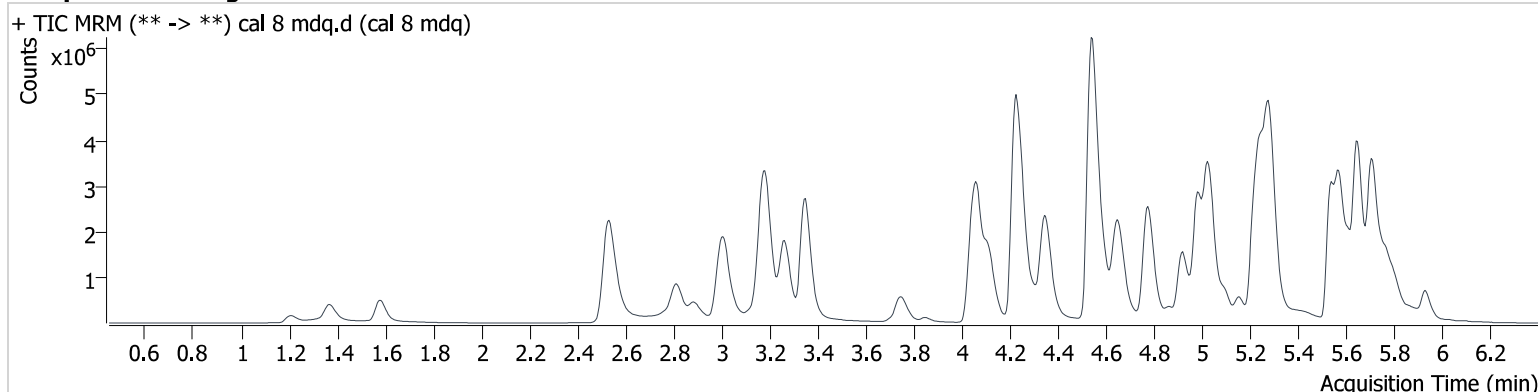
AM #28 Multi-Drug Quant. Results

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Sample Info.

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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.
6-MAM	3.121	76990	104746.7	139.73	18296.1	22117	96.981 ng/ml
7-aminoclonazepam	4.233	218401	1217586.8	111.15	48740.2	17632	629.642 ng/ml
a-hydroxyalprazolam	5.670	87036	2977.7	58.88	938.5	36673	1005.949 ng/ml
Alprazolam	5.749	1066833	7403.0	91.88	∞	36673	1007.850 ng/ml
Amphetamine	3.007	1653237	53205.6	231.52	37517.7	87281	583.239 ng/ml
Buprenorphine	5.891	164546	22177.9	15.37	13159.7	25572	97.641 ng/ml
Clonazepam	5.582	138609	∞	35.12	∞	2705	952.624 ng/ml
EDDP	5.248	3848739	325282.7	42.45	∞	168215	1042.683 ng/ml
Fentanyl	5.091	554068	59303.5	133.78	10051.1	236806	110.523 ng/ml
Fluoxetine	5.697	2492758	∞	7.50	444665.7	91976	1013.122 ng/ml
Ketamine	4.032	1509950	226601.2	39.60	43089.5	100334	727.166 ng/ml
Lorazepam	5.722	101595	3879.6	51.17	1778.6	5148	1070.043 ng/ml
Methadone	5.645	6436516	287870.0	49.49	1180660.6	230098	1034.542 ng/ml
Methamphetamine	3.181	5337661	754915.8	35.85	22778.2	307174	726.188 ng/ml
Mitragynine	5.230	999409	1496694.0	36.37	1442946.5	100334	1009.454 ng/ml
Norbuprenorphine	4.982	23371	18393.7	100.31	196462.8	4107	97.953 ng/ml
Norfentanyl	4.073	106457	5137.2	32.22	11452.9	122426	97.988 ng/ml
Noroxycodone	2.886	947615	∞	43.73	∞	30027	975.848 ng/ml
Olanzapine	4.591	1487706	1580.9	50.77	1859.2	37696	1025.721 ng/ml
Oxycodone	2.809	2415644	∞	28.78	∞	121734	915.197 ng/ml
Oxymorphone	1.365	1312095	∞	41.22	3596.6	44211	979.920 ng/ml
Promethazine	5.536	6080041	12919140.2	29.32	∞	255210	1069.913 ng/ml
Pseudoephedrine	2.534	5907245	∞	15.91	24100.7	298326	1019.617 ng/ml
Zolpidem	4.979	6549398	∞	30.30	622417.2	309804	894.387 ng/ml