








**Worklist: 6404**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
C2023-0929	1	CSPILL	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2023-0991	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2023-1024	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2023-1139	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2023-1242	2	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	

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

Extraction Date 6/14/23 Analyst: Anne Nord  
Plate lot#: 220802 Item: IDP-121-3CDA Plate re-test: 02/02/23

**Mobile phase A:** 5mM Amm Form + 0.01% FA 0.5M Ammonium Hydroxide  
**Mobile phase B:** 0.01% Formic Acid in MeOH Ethyl Acetate 20% Methanol in Water

**Blank Blood Lot:** 22B52016-1 **Urine Blank lot** 12522

**Column:** Agilent 120 EC-C18 (2.1x 100-2.7um) **LCMS-QQQ ID:** 69679

## Pre-Analytic:

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

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette 250µL blood (calibrated pipette) or 250µL hydrolyzed urine in wells of analytical (standards) plate. **Pipette ID: 390993**
- 3. Pipette 250µL 0.5M ammonium hydroxide in wells of analytical plate.
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Transfer 300µL of blood+base/urine+base mixture to corresponding wells of SLE+ plate.
- 6. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). **(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792**
- 7. Wait 5 minutes.
- 8. Add 900uL ethyl acetate.
- 9. Wait 5 minutes.
- 10. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 11. Add 900uL ethyl acetate.
- 12. Wait 5 minutes.
- 13. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 14. Remove plate containing eluate. Add 50 ul 1% HCl in MeOH,
- 15. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 66819*
- 16. Reconstitute in 100µL 20% MeOH and heat seal plate with foil.


## Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> 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: Qualitative only – ran external urine control to re-test plate.

7-aminoclonazepam 5-500 cal 8 dropped due to accuracy  
Alpha-hydroxyalprazolam 5-500 cal 8 dropped due to accuracy  
Amphetamine 5-250 cal 7 and 8 dropped due to accuracy  
Dihydrocodeine 5-500 cal 8 dropped due to accuracy  
DMT – Not evaluated lowering ratios  
Lamotrigine 5-500 cal 8 dropped due to accuracy  
Lorazepam 5-500 cal 8 dropped due to accuracy  
MDA 5-500 cal 8 dropped due to accuracy  
Meprobamate 5-250 cal 7 and cal 8 dropped due to accuracy  
Methamphetamine 10-500 cal 1 and cal 8 dropped due to accuracy  
Norbuprenorphine 2.5-100 cal 1 and 2 dropped due to poor peak shape.  
Norfentanyl 1-100 cal 1 dropped due to accuracy  
Norhydrocodone not evaluated rising ratios  
Olanzapine 5-500 cal 8 dropped due to accuracy  
Phentermine 5-500 cal 8 dropped due to accuracy

C2023-0991-1 and C2023-1139-1 not evaluated for MDA due to low IS response.



The run was started 6-14-23 while the QC250 was running the pressure maxed out (folder 061423). I changed the heat exchanger and started the run over re-injecting all of the samples that had already run. I adjusted the injection volume from 3ul to 1ul. This volume did not provide adequate response for some compounds and there was carry over following some of the strong samples, these injections were not evaluated (folder 061423r). On 6-15-23 I adjusted the injection volume to 3ul and added more washes after the strong samples, these injections were evaluated (folder 061423rr).

C2023-0929-1 had the wrong plate position listed a blank well was injected, this was not evaluated the correct well was entered and injected that injection was evaluated.

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1	negative blood									
B	IS + Cal. 2	IS + QC_2	negative urine									
C	IS + Cal. 3	IS + QC 3	external control urine									
D	IS + Cal. 4	IS + QC_4	929-4 <sup>1</sup> <del>4</del> <sup>6/22/23</sup>									
E	IS + Cal. 5	IS + QC_2	1024-1									
F	IS + Cal. 6	1242-2										
G	IS + Cal. 7	1139-1										
H	IS + Cal. 8	991-1										

blank in front

plate position 2

c2023-\_\_\_\_-\_\_



Toxicology AM method 25/28 external control prep

working solution 10000 ng/ml in meoh diphendyramine, methamphetamine, alprazolam, , morphine  
Stock solution 1mg/ml 50 ul each in 4800 ul MeOH (VWR 21050767)

ppd 7/7/22: Exp: 7/7/23 lot 7722 by AMN

Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
alprazolam	FE06102008	6/1/2025
<del>A</del> Diphenhydramine	FN02212011	3/1/2025 Diphenhydramine A
Morphine	FE03232010	4/1/2025

**AM 25/28 control 500 ul working solution (7722) in 4500 ul negative urine (1000ng/mL Expected concentration)**

ppd 7/7/22, exp 7/7/23 lot u7722 negative urine 21522 by AMN

**AM 25/28 Blood Control: 50ul working solution (7722) in 4950 ul neg blood (100ng/mL Expected concentration)**

ppd ~~ppp~~ 7/7/22, exp 7/7/23 lot b7722 neg blood 22B52016-3 by AMN

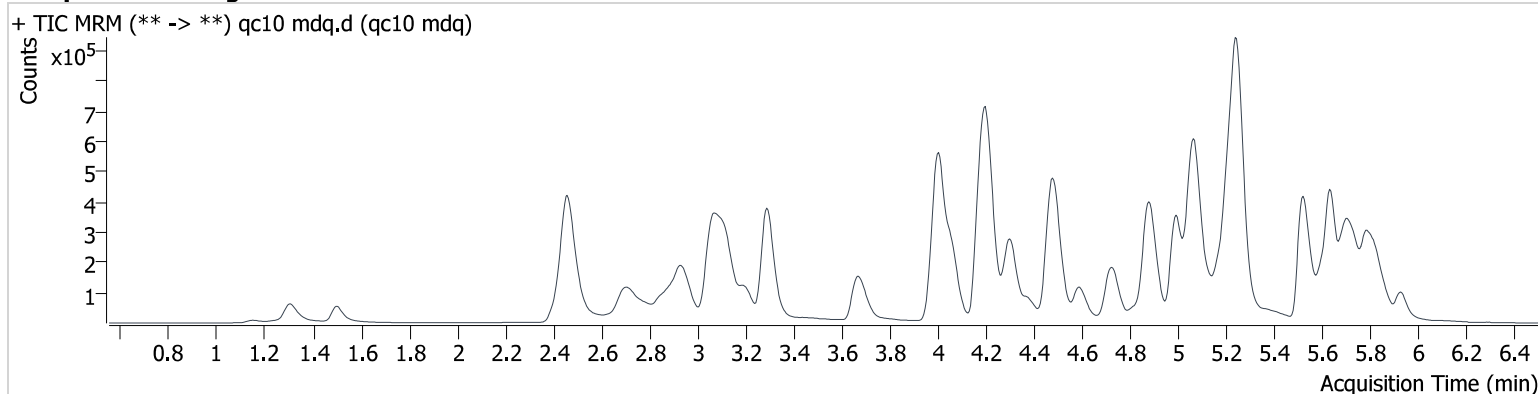
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-A2  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 11:06:21 AM  
**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	3.057	2673	334.3	135.69	9390.8	62805	1.057 ng/ml
7-aminoclonazepam	4.201	36818	594.9	113.93	4686.7	175220	10.564 ng/ml
a-hydroxyalprazolam	5.660	6508	1088.6	70.33	∞	67052	9.238 ng/ml
alpha-PHP	4.884	47478	1565.7	261.40	20121.7	626486	10.623 ng/ml
alpha-PVP	4.311	176723	18823.7	54.30	7158.4	626486	10.308 ng/ml
Alprazolam	5.744	74598	524.3	94.01	∞	252510	9.525 ng/ml
Amphetamine	2.939	120749	3482.2	279.57	2908.4	310808	9.971 ng/ml
Benzoylcegonine	3.807	4350	348.9	45.10	∞	14188	9.642 ng/ml
Buprenorphine	5.856	6685	302.6	17.04	96.6	83694	1.038 ng/ml
Bupropion	4.735	154879	34560.8	73.21	9671.7	441810	9.678 ng/ml
Carisoprodol	5.700	50442	83264.2	57.80	623.1	149477	9.816 ng/ml
Chlordiazepoxide	5.828	19261	74.8	129.94	229.2	384432	9.357 ng/ml
Chlorpheniramine	5.068	259326	9641.0	0.31	44.8	988993	9.879 ng/ml
Citalopram	5.180	124090	1891.8	41.63	1215.2	435419	10.981 ng/ml
Clonazepam	5.577	37001	1756.9	38.16	23162.6	67052	10.045 ng/ml
Clonazolam	5.513	45086	554.8	38.41	5139.7	99049	11.301 ng/ml
Cocaine	4.210	123518	3516.6	50.89	4955.9	987664	9.670 ng/ml
Codeine	2.473	17771	2183.2	88.53	1414.4	71598	11.009 ng/ml
Cyclobenzaprine	5.606	122585	26816.0	8.56	2353.6	342918	9.910 ng/ml
Dextromethorphan	5.224	89454	3041.1	75.86	2174.3	410498	9.990 ng/ml
Dextrorphan	4.065	101325	4112.0	45.28	5731.6	491689	10.145 ng/ml
Diazepam	5.932	41454	∞	81.29	∞	173434	10.226 ng/ml
Dihydrocodeine	2.447	41670	294.5	59.62	452.6	234905	10.646 ng/ml
Diphenhydramine	5.255	399313	∞	31.26	9907.2	1807564	9.659 ng/ml
Doxylamine	4.492	359987	10624.1	97.23	4903.3	1138038	10.067 ng/ml
Duloxetine	5.631	12141	151.7	9.47	28.4	29397	10.692 ng/ml
EDDP	5.218	190070	6206.9	44.17	7253.3	885471	9.967 ng/ml
Etizolam	5.795	8281	935.8	406.48	1832.4	173434	10.261 ng/ml
Fentanyl	5.062	12413	924.9	127.50	∞	570939	0.904 ng/ml
Flualprazolam	5.676	30862	∞	100.50	4956.5	99049	10.145 ng/ml
Fluorofentanyl	5.123	10993	1972.9	122.25	159.6	6209	0.934 ng/ml
Fluoxetine	5.693	83919	1763.4	6.10	9924.9	246483	9.840 ng/ml
Hydrocodone	2.931	62071	1637.7	36.83	1997.3	301421	10.218 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.507	40783	1369.9	70.23	695.7	123289	10.488 ng/ml
Hydroxyzine	5.696	82596	3598.9	112.44	1865.7	1239977	10.117 ng/ml
Ketamine	3.994	110258	10716.5	37.76	257.9	459197	10.237 ng/ml
Lamotrigine	4.218	10254	804.5	95.30	2004.1	246483	11.209 ng/ml
Lorazepam	5.723	24753	3404.2	45.39	197.5	230790	9.789 ng/ml
MDA	3.101	149815	3136.9	30.67	∞	361864	10.294 ng/ml
MDMA	3.202	111633	5554.2	106.73	4448.2	103719	10.354 ng/ml
Meprobamate	4.844	44268	1910.3	33.31	931.0	126202	10.678 ng/ml
Methadone	5.635	239370	4963.6	47.29	1757.0	726010	10.569 ng/ml
Methamphetamine	3.127	386373	9337.9	39.08	4304.4	987438	8.069 ng/ml
Metoprolol	4.273	31284	4135.2	97.57	∞	1239977	10.498 ng/ml
Mirtazapine	4.589	235844	4588.8	51.84	4650.8	541173	9.745 ng/ml
Mitragynine	5.199	41056	24089.6	29.14	12833.8	1239977	10.419 ng/ml
Morphine	1.156	4952	1203.0	20.73	66.7	6555	8.934 ng/ml
Norbuprenorphine	4.942	920	∞	127.53 <b>High</b>	5305.8	14848	0.573 ng/ml
Nordiazepam	5.871	30840	16645.1	63.65	72342.7	99049	10.080 ng/ml
Norfentanyl	4.025	3888	377.3	270.54	167.4	880549	0.662 ng/ml
Noroxycodone	2.803	45240	969.4	53.77	451.3	143655	9.928 ng/ml
O-desmethyl-tramadol	3.294	276809	10530.7	6.32	3748.0	1026828	10.196 ng/ml
O-Desmethylvenlafaxine	4.008	75780	633.0	243.10	972.4	259233	10.071 ng/ml
Olanzapine	4.450	81581	277.7	43.69	1118.2	196043	10.919 ng/ml
Oxazepam	5.725	51253	859.6	75.78	∞	230790	9.941 ng/ml
Oxycodone	2.726	119888	8335.4	31.16	1837.2	371493	10.017 ng/ml
Oxymorphone	1.309	64600	∞	44.14	∞	208968	9.955 ng/ml
Phentermine	3.704	50679	515.4	11.32	831.7	541173	10.536 ng/ml
Promethazine	5.521	167193	3436.3	40.49	1337.6	784218	10.185 ng/ml
Pseudoephedrine	2.471	314239	5242.6	17.60	20764.1	1239977	9.706 ng/ml
Quetiapine	5.544	136915	63519.7	59.76	8091.6	186063	10.496 ng/ml
Sertraline	5.765	18851	1094.5	96.75	296.7	58891	10.098 ng/ml
Temazepam	5.792	113573	3245.4	31.17	342.8	507569	10.334 ng/ml
Tramadol	4.192	288309	∞	3.59	560.5	1094573	10.147 ng/ml
Trazodone	5.138	120439	2264.8	123.50	6377.7	574558	9.595 ng/ml
Venlafaxine	4.991	196462	3951.4	46.65	4211.1	951504	10.329 ng/ml
Zolpidem	4.893	264768	4358.0	27.42	7809.7	1011771	9.845 ng/ml

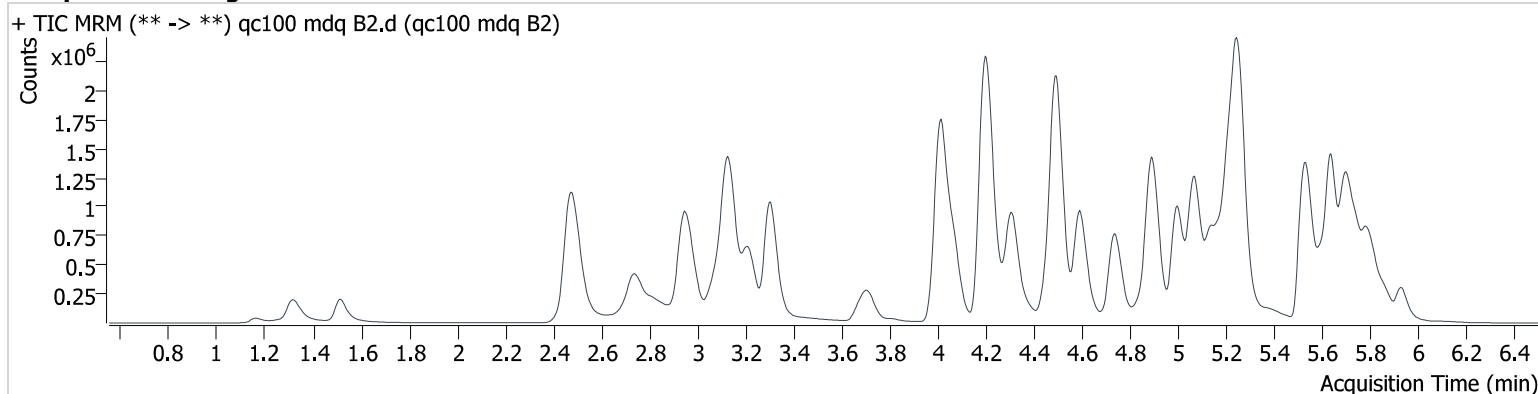
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-B2  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 2:26:42 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.
6-MAM	3.067	23042	206206.4	128.50	79634.5	58207	10.232 ng/ml
7-aminoclonazepam	4.206	317913	32498.1	111.99	17270.7	157271	107.029 ng/ml
a-hydroxyalprazolam	5.660	51834	846.0	64.08	1127.6	52596	107.166 ng/ml
alpha-PHP	4.884	410879	28376.4	247.92	42860.4	580187	108.060 ng/ml
alpha-PVP	4.311	1571301	171055.8	54.51	40852.0	580187	97.451 ng/ml
Alprazolam	5.744	602156	∞	93.53	42261.4	200027	99.897 ng/ml
Amphetamine	2.954	978021	15412.8	275.36	∞	301019	102.053 ng/ml
Benzoylcegonine	3.812	42003	1082.1	41.35	205.4	13890	103.617 ng/ml
Buprenorphine	5.851	58212	1837.7	16.50	805.2	83069	9.548 ng/ml
Bupropion	4.741	1400541	99853.2	73.58	10720.9	425457	95.123 ng/ml
Carisoprodol	5.700	356808	1054092.8	61.62	2846.3	108613	96.044 ng/ml
Chlordiazepoxide	5.828	151397	4095.8	135.73	12698.8	317578	93.339 ng/ml
Chlorpheniramine	5.068	2479784	396555.7	0.29	∞	939511	103.426 ng/ml
Citalopram	5.185	1022928	1311499.5	41.07	2843655.3	371185	106.910 ng/ml
Clonazepam	5.577	307514	4714.8	32.69	17656.4	52596	104.031 ng/ml
Clonazolam	5.518	349343	3500.7	37.20	2738.1	76995	113.651 ng/ml
Cocaine	4.215	1087793	74649.8	49.75	129286.9	850862	101.695 ng/ml
Codeine	2.488	132627	17904.8	89.67	14510.9	57999	107.885 ng/ml
Cyclobenzaprine	5.606	1067305	422744.2	8.56	740.6	298195	103.966 ng/ml
Dextromethorphan	5.224	742732	188507.6	75.77	2917360.0	329859	104.408 ng/ml
Dextrorphan	4.070	956748	66387.8	45.20	3042015.7	445525	99.788 ng/ml
Diazepam	5.932	349422	∞	84.08	8042.9	150958	99.142 ng/ml
Dihydrocodeine	2.457	337306	9455.6	60.68	1716.4	209087	107.606 ng/ml
Diphenhydramine	5.255	3538634	149311.6	31.28	∞	1540635	96.589 ng/ml
Doxylamine	4.492	3493937	767999.9	95.30	729707.6	1101040	103.268 ng/ml
Duloxetine	5.631	99377	470.7	10.46	52.4	28050	100.757 ng/ml
EDDP	5.223	1697668	99178.3	43.09	56220.8	799581	102.761 ng/ml
Etizolam	5.790	68598	13044.8	395.95	46376.7	150958	97.753 ng/ml
Fentanyl	5.067	109940	1005.7	122.42	4394.4	513757	10.398 ng/ml
Flualprazolam	5.671	256262	51188.6	97.15	5850.1	76995	110.027 ng/ml
Fluorofentanyl	5.123	96245	1694.8	123.98	199.8	5332	9.758 ng/ml
Fluoxetine	5.698	622260	570152.4	6.53	64118.7	193754	100.319 ng/ml
Hydrocodone	2.936	455408	∞	37.43	59673.3	256361	98.440 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.517	357859	6071.2	72.80	38447.9	111674	102.745 ng/ml
Hydroxyzine	5.696	734883	56902.0	115.59	7880.1	1144346	97.558 ng/ml
Ketamine	3.999	959098	50651.0	38.48	10283.9	415640	108.136 ng/ml
Lamotrigine	4.233	81610	11582.8	92.59	111745.5	193754	112.115 ng/ml
Lorazepam	5.723	143619	∞	46.50	453.1	143245	92.064 ng/ml
MDA	3.111	1192034	27648.0	30.30	16242.8	317708	100.984 ng/ml
MDMA	3.213	974364	24953444.5	108.58	∞	94532	98.156 ng/ml
Meprobamate	4.849	368601	10652.7	33.28	4128.0	121888	98.473 ng/ml
Methadone	5.635	2068129	8774146.0	48.81	26237.9	675601	98.081 ng/ml
Methamphetamine	3.137	2228425	∞	38.89	21498.2	980763	100.304 ng/ml
Metoprolol	4.278	271136	538944.4	96.50	∞	1144346	104.840 ng/ml
Mirtazapine	4.589	2252279	1074508.8	48.71	11419128.1	495732	101.588 ng/ml
Mitragynine	5.199	319339	48725.4	32.30	2430.1	1144346	99.785 ng/ml
Morphine	1.161	48269	5501.1	18.30	3464.2	5626	104.833 ng/ml
Norbuprenorphine	4.952	9433	13443.1	98.40	18205.4	13876	9.984 ng/ml
Nordiazepam	5.871	252705	187525.7	63.18	1544.4	76995	103.774 ng/ml
Norfentanyl	4.030	27338	2363.1	280.67	5707.2	715767	9.825 ng/ml
Noroxycodone	2.818	368618	4381.5	50.60	1628.0	113979	102.716 ng/ml
O-desmethyl-tramadol	3.304	2540068	622973.0	6.40	26370.8	984616	100.910 ng/ml
O-Desmethylvenlafaxine	4.018	669259	3311.5	239.06	35547.2	226650	106.342 ng/ml
Olanzapine	4.450	780876	16083.0	44.81	18245.0	200788	111.423 ng/ml
Oxazepam	5.725	329554	4422.9	71.99	2397.0	143245	103.399 ng/ml
Oxycodone	2.736	997252	57722.4	30.55	122975.2	342471	99.225 ng/ml
Oxymorphone	1.314	557202	∞	44.07	∞	179429	101.253 ng/ml
Phentermine	3.714	435632	4232.8	10.97	1326.5	495732	108.927 ng/ml
Promethazine	5.521	1570919	1029714.7	38.49	∞	710846	101.690 ng/ml
Pseudoephedrine	2.481	2808912	∞	16.93	∞	1144346	95.881 ng/ml
Quetiapine	5.539	1187908	∞	61.09	1416525.6	171021	98.888 ng/ml
Sertraline	5.765	134934	18233.4	96.03	3890.3	54336	97.243 ng/ml
Temazepam	5.792	852330	12328.8	30.72	29301.5	381641	103.150 ng/ml
Tramadol	4.192	2525120	∞	3.32	∞	1087278	94.843 ng/ml
Trazodone	5.138	1051337	19236.3	126.19	115429.1	506933	96.131 ng/ml
Venlafaxine	4.996	1823762	73586.4	45.72	15100.4	908529	92.204 ng/ml
Zolpidem	4.898	2435044	15728.2	27.96	38726.0	920692	106.007 ng/ml

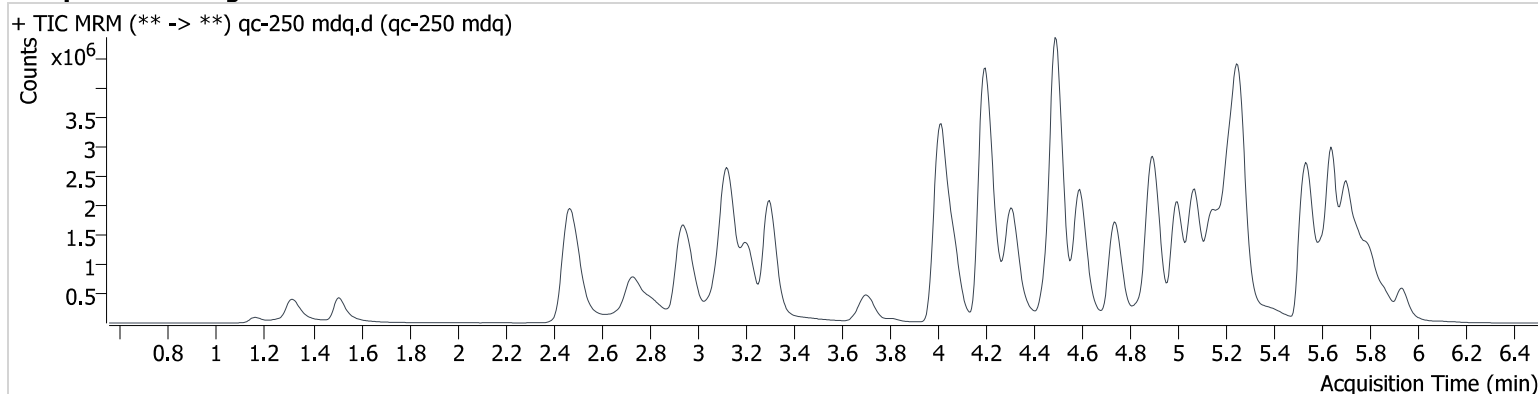
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-C2  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 11:15:04 AM  
**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	3.062	53217	230208.6	133.93	∞	55229	24.976 ng/ml
7-aminoclonazepam	4.201	531572	38438.2	109.86	25694.8	113287	249.270 ng/ml
a-hydroxyalprazolam	5.660	81578	4574.7	70.89	920.3	40440	220.892 ng/ml
alpha-PHP	4.884	943126	34750.5	254.43	10156.5	540469	267.810 ng/ml
alpha-PVP	4.311	3819337	163221.7	53.66	175285.2	540469	253.998 ng/ml
Alprazolam	5.750	1347370	∞	86.63	∞	172795	259.246 ng/ml
Amphetamine	2.944	1902411	∞	266.37	72519.2	280287	215.954 ng/ml
Benzoylcegonine	3.807	110927	10796.1	42.02	3386.2	14718	259.677 ng/ml
Buprenorphine	5.851	145245	9063.9	16.04	3074.2	79512	24.978 ng/ml
Bupropion	4.741	3428129	152881.6	74.83	90165.1	430541	230.803 ng/ml
Carisoprodol	5.700	594900	667166.0	61.30	15955.7	66712	260.806 ng/ml
Chlordiazepoxide	5.833	307636	6407.8	130.21	20247.3	264477	228.472 ng/ml
Chlorpheniramine	5.068	5993421	461700.0	0.29	4258.3	919549	256.043 ng/ml
Citalopram	5.180	2080162	179825.5	42.55	∞	314047	257.078 ng/ml
Clonazepam	5.577	577471	14226.4	31.33	243378.9	40440	253.723 ng/ml
Clonazolam	5.518	648315	∞	37.45	93232.5	60293	269.494 ng/ml
Cocaine	4.215	2491956	1354611.8	49.15	71321.4	783107	253.582 ng/ml
Codeine	2.488	263995	53306.7	90.90	12438.4	49003	255.237 ng/ml
Cyclobenzaprine	5.606	2480334	8599416.7	8.80	∞	275963	261.868 ng/ml
Dextromethorphan	5.224	1596437	146056.3	72.16	44410.2	268881	275.520 ng/ml
Dextrorphan	4.070	2265284	2036341.3	44.87	184738.9	422010	248.489 ng/ml
Diazepam	5.932	801953	∞	84.58	∞	141578	242.631 ng/ml
Dihydrocodeine	2.447	733643	3065.1	62.24	405.5	202479	243.344 ng/ml
Diphenhydramine	5.260	7735866	∞	29.11	191364.0	1332792	243.458 ng/ml
Doxylamine	4.492	8653265	216739.4	95.77	153539.4	1107806	254.564 ng/ml
Duloxetine	5.631	203766	645.8	10.69	992.5	22466	259.804 ng/ml
EDDP	5.218	4027926	183910.7	44.88	72270.9	756332	258.463 ng/ml
Etizolam	5.790	160898	∞	393.88	83799.4	141578	244.487 ng/ml
Fentanyl	5.067	244425	10263.4	127.81	96089.7	476019	25.187 ng/ml
Flualprazolam	5.671	479179	∞	95.51	10129.2	60293	262.967 ng/ml
Fluorofentanyl	5.118	236175	20857.9	114.78	1508.1	5101	25.067 ng/ml
Fluoxetine	5.698	1271712	145066.7	6.46	222755.0	154617	258.305 ng/ml
Hydrocodone	2.931	1019539	22296.5	37.45	3160.2	229048	248.693 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.512	871729	7387.9	72.23	∞	105777	264.440 ng/ml
Hydroxyzine	5.696	1640634	59373.8	119.62	30257.6	1001941	248.758 ng/ml
Ketamine	3.994	2118743	270702.6	38.98	42484.7	382392	261.242 ng/ml
Lamotrigine	4.233	153670	282293.1	93.74	19339.9	154617	264.344 ng/ml
Lorazepam	5.723	193883	∞	44.54	1268.7	75375	236.301 ng/ml
MDA	3.096	2229681	80254.8	28.93	29926.4	242167	249.198 ng/ml
MDMA	3.208	2281571	197190.4	106.60	101454.6	86068	252.260 ng/ml
Meprobamate	4.844	690571	21745.4	32.52	1669.1	102528	220.359 ng/ml
Methadone	5.640	5073270	∞	46.42	33026.9	646341	251.482 ng/ml
Methamphetamine	3.132	4972397	∞	38.98	55975.1	986955	235.947 ng/ml
Metoprolol	4.278	575506	168177.0	96.65	∞	1001941	255.219 ng/ml
Mirtazapine	4.589	5427713	289669.2	49.14	78457.2	468686	258.940 ng/ml
Mitragynine	5.199	633649	26269.9	33.91	302625.5	1001941	228.181 ng/ml
Morphine	1.161	107028	12707.7	19.62	7028.5	5637	232.397 ng/ml
Norbuprenorphine	4.952	21803	27432.8	101.19	13439.6	13067	25.041 ng/ml
Nordiazepam	5.876	515841	2963.0	60.87	3022.5	60293	270.094 ng/ml
Norfentanyl	4.030	52015	18589.2	271.57	2779.4	551708	25.038 ng/ml
Noroxycodone	2.808	792522	8995.5	49.18	∞	104125	241.847 ng/ml
O-desmethyl-tramadol	3.299	6378496	1563626.6	6.23	45143.9	986170	253.588 ng/ml
O-Desmethylvenlafaxine	4.013	1526005	12293.2	243.49	18560.4	211817	260.183 ng/ml
Olanzapine	4.450	1796096	74277.7	46.57	4472.1	207114	249.839 ng/ml
Oxazepam	5.725	422734	984618.5	76.81	4744.2	75375	252.129 ng/ml
Oxycodone	2.726	2235788	∞	30.17	129604.3	320727	239.074 ng/ml
Oxymorphone	1.314	1357798	∞	44.26	∞	175197	252.902 ng/ml
Phentermine	3.709	935541	16667.9	10.57	7630.1	468686	248.952 ng/ml
Promethazine	5.521	3833406	86903.2	38.30	49428.4	676815	259.975 ng/ml
Pseudoephedrine	2.476	6245352	∞	16.91	∞	1001941	243.813 ng/ml
Quetiapine	5.544	2682443	∞	61.48	2267250.7	140097	272.551 ng/ml
Sertraline	5.765	288062	75794.0	95.33	146364.7	45820	250.463 ng/ml
Temazepam	5.792	1494167	17765.6	30.96	5641.8	267001	258.465 ng/ml
Tramadol	4.187	5813992	∞	3.29	2746.6	940523	253.588 ng/ml
Trazodone	5.138	2453280	∞	126.24	94796.8	463498	245.550 ng/ml
Venlafaxine	4.997	4457946	96082.9	46.48	58473.1	861430	236.215 ng/ml
Zolpidem	4.899	5629934	∞	29.05	109292.9	900216	251.644 ng/ml

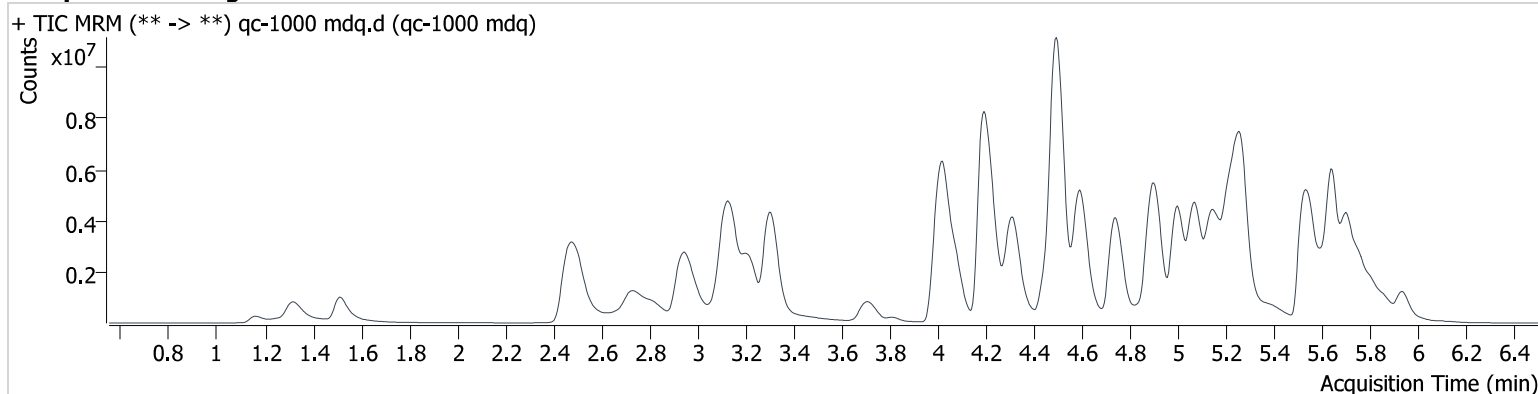
# AM #28 Multi-Drug Quant. Results

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**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-D2  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 11:23:46 AM  
**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	3.062	136788	341762.3	136.11	476742.7	36625	96.948 ng/ml
7-aminoclonazepam	4.196	625176	55831.5	116.73	88999.7	47372	702.214 ng/ml
a-hydroxyalprazolam	5.660	95864	1045.9	65.88	706.9	14592	722.662 ng/ml
alpha-PHP	4.879	2003787	53050.3	253.79	46385.6	326552	944.382 ng/ml
alpha-PVP	4.316	9510413	3648887.9	51.87	186239.7	326552	1046.243 ng/ml
Alprazolam	5.750	2482580	∞	91.19	∞	83156	993.461 ng/ml
Amphetamine	2.954	3371666	74291.2	257.83	522114.5	190938	565.901 ng/ml
Benzoylcegonine	3.812	376909	48574.8	42.08	11793.0	12438	1046.939 ng/ml
Buprenorphine	5.851	397426	22301.7	16.30	7830.4	50974	106.795 ng/ml
Bupropion	4.741	9328577	406524.9	69.51	194609.8	298661	906.867 ng/ml
Carisoprodol	5.705	736630	∞	60.74	30694.6	24273	887.702 ng/ml
Chlordiazepoxide	5.833	559802	17513.9	107.19	43390.1	120598	913.265 ng/ml
Chlorpheniramine	5.068	15260188	1796368.9	0.31	8509.8	580724	1033.626 ng/ml
Citalopram	5.181	3678824	133454.2	42.07	341244.8	138711	1029.593 ng/ml
Clonazepam	5.577	811649	∞	30.98	44840.8	14592	987.572 ng/ml
Clonazolam	5.513	862965	139699.8	38.85	20037.2	24368	887.833 ng/ml
Cocaine	4.220	5277213	196923.9	48.25	343142.5	410055	1026.501 ng/ml
Codeine	2.493	487631	15925.8	92.24	31590.7	25639	903.078 ng/ml
Cyclobenzaprine	5.600	4935541	∞	9.18	31051.9	150736	955.374 ng/ml
Dextromethorphan	5.229	2675025	163869.6	79.70	462449.4	117796	1054.162 ng/ml
Dextrorphan	4.070	5496303	463417.9	44.76	691708.9	242343	1047.868 ng/ml
Diazepam	5.937	1970556	∞	84.02	∞	84593	997.849 ng/ml
Dihydrocodeine	2.447	1640872	11227.9	63.38	2674.2	142613	775.639 ng/ml
Diphenhydramine	5.266	15805323	355739.1	27.90	132162.4	649088	1020.053 ng/ml
Doxylamine	4.492	22317260	3070207.4	95.78	284771.4	696031	1045.728 ng/ml
Duloxetine	5.636	287599	560.7	10.28	286.4	7888	1047.916 ng/ml
EDDP	5.223	9862811	811864.0	42.45	54837.6	450434	1064.132 ng/ml
Etizolam	5.795	321947	165972.7	385.01	∞	84593	818.781 ng/ml
Fentanyl	5.067	494846	26899.7	131.25	72127.2	247497	98.565 ng/ml
Flualprazolam	5.671	749845	5419.4	86.33	12499.9	24368	1018.669 ng/ml
Fluorofentanyl	5.123	556271	275.9	113.07	1062.1	2615	115.277 ng/ml
Fluoxetine	5.703	2108615	221851.0	6.91	119804.5	61746	1075.287 ng/ml
Hydrocodone	2.936	2534091	36182.1	38.08	∞	149392	951.511 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.512	2372860	5937.8	72.73	∞	72952	1044.093 ng/ml
Hydroxyzine	5.701	3524343	1112581.5	118.04	2637815.8	527776	1014.471 ng/ml
Ketamine	3.989	4570603	2745534.8	38.31	20831.8	230213	939.020 ng/ml
Lamotrigine	4.239	221793	50737.6	93.44	219436.6	61746	954.986 ng/ml
Lorazepam	5.723	196111	∞	43.06	11314.6	16442	1095.937 ng/ml
MDA	3.090	3176137	129917.1	29.24	54987.0	111609	772.217 ng/ml
MDMA	3.213	4819385	301380.9	104.81	404319.0	46939	976.717 ng/ml
Meprobamate	4.844	1119336	73046.9	31.65	24490.2	56310	651.975 ng/ml
Methadone	5.640	12215043	471112.8	45.59	5376433.3	384484	1017.863 ng/ml
Methamphetamine	3.132	11091676	2978393.9	37.23	121066.9	716504	748.026 ng/ml
Metoprolol	4.273	1017947	1326971.2	96.63	∞	527776	858.756 ng/ml
Mirtazapine	4.589	13186227	1116294.4	48.70	731117.4	297896	989.738 ng/ml
Mitragynine	5.194	1146758	270742.7	35.70	21660.7	527776	787.885 ng/ml
Morphine	1.161	333205	171599.9	20.39	27496.2	3952	1033.252 ng/ml
Norbuprenorphine	4.952	55979	259582.7	94.88	128567.0	8749	97.073 ng/ml
Nordiazepam	5.876	763630	24199.3	66.63	4579.0	24368	988.617 ng/ml
Norfentanyl	4.035	83590	14174.0	277.25	24240.7	220585	102.252 ng/ml
Noroxycodone	2.818	1566027	14672.5	47.41	∞	46524	1069.849 ng/ml
O-desmethyl-tramadol	3.304	16130545	1238548.3	5.99	51066.2	639508	990.056 ng/ml
O-Desmethylvenlafaxine	4.018	3151837	39034.9	241.14	14763.6	114287	997.412 ng/ml
Olanzapine	4.444	4622162	79401.6	47.34	102502.3	178915	746.508 ng/ml
Oxazepam	5.725	338238	85657.7	75.29	149768.9	16442	924.900 ng/ml
Oxycodone	2.721	4724852	61497.3	29.88	16028.0	197278	824.072 ng/ml
Oxymorphone	1.314	3432721	∞	44.69	∞	115982	966.195 ng/ml
Phentermine	3.709	1995205	∞	10.06	547080.1	297896	838.155 ng/ml
Promethazine	5.521	9311116	369496.6	34.92	85461.2	405879	1051.720 ng/ml
Pseudoephedrine	2.486	13205718	∞	16.61	∞	527776	979.361 ng/ml
Quetiapine	5.549	5423318	130505.3	62.63	∞	72971	1057.870 ng/ml
Sertraline	5.765	534178	81070.9	98.13	62727.1	20931	1025.300 ng/ml
Temazepam	5.797	1702572	38650.8	34.08	159047.8	82744	950.358 ng/ml
Tramadol	4.187	13017967	∞	3.20	∞	546585	978.995 ng/ml
Trazodone	5.143	5517011	∞	128.00	∞	230797	1109.426 ng/ml
Venlafaxine	4.996	11598616	555491.7	42.27	47609.3	527089	1001.356 ng/ml
Zolpidem	4.901	12944442	382061.9	28.42	253448.2	546541	954.987 ng/ml

# AM #28 Multi-Drug Quant. Results

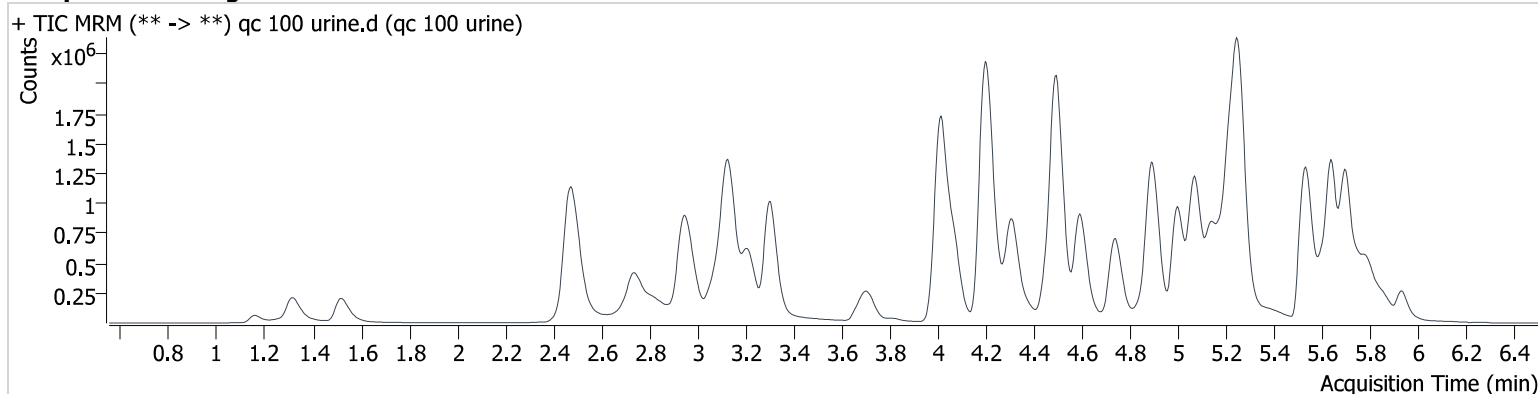
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**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-E2  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 11:32:27 AM  
**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	3.067	21529	∞	137.16	23530.1	55355	10.052 ng/ml
7-aminoclonazepam	4.206	298167	27855.1	110.33	24658.8	146061	108.092 ng/ml
a-hydroxyalprazolam	5.660	40129	572.4	65.66	2185.3	30797	142.166 ng/ml
alpha-PHP	4.890	364033	10166.0	249.28	41556.3	524415	105.901 ng/ml
alpha-PVP	4.316	1422622	10272.7	53.04	40185.9	524415	97.613 ng/ml
Alprazolam	5.744	451316	∞	89.67	13721.3	147667	101.426 ng/ml
Amphetamine	2.949	927998	∞	275.36	51840.6	271461	107.510 ng/ml
Benzoylcegonine	3.812	50171	8673.6	41.47	1240.4	15890	108.232 ng/ml
Buprenorphine	5.851	55157	4262.8	15.17	463.3	68592	10.964 ng/ml
Bupropion	4.741	1280500	115733.0	73.39	20700.7	393865	93.940 ng/ml
Carisoprodol	5.695	264546	15571473.4	61.74	2054.8	76951	100.512 ng/ml
Chlordiazepoxide	5.833	109946	1900.3	132.74	5934.2	230304	93.472 ng/ml
Chlorpheniramine	5.073	2328704	15646.8	0.33	557.7	910447	100.212 ng/ml
Citalopram	5.185	970562	40410.9	40.39	16837.1	359116	104.844 ng/ml
Clonazepam	5.577	183186	6512.2	31.92	∞	30797	105.834 ng/ml
Clonazolam	5.518	203442	13020.5	37.41	27603.7	51984	98.013 ng/ml
Cocaine	4.215	1004002	47697.6	49.25	25967.2	789402	101.168 ng/ml
Codeine	2.488	127151	6411.6	90.27	7613.1	57810	103.739 ng/ml
Cyclobenzaprine	5.606	1000690	192260.4	8.88	1218.0	286589	101.412 ng/ml
Dextromethorphan	5.229	727031	87361.1	77.14	12116.1	334015	100.926 ng/ml
Dextrorphan	4.070	954982	127233.0	45.00	27207.4	446232	99.448 ng/ml
Diazepam	5.932	303644	4013.6	83.90	8758.4	129012	100.809 ng/ml
Dihydrocodeine	2.452	356698	1181.1	60.59	1134.3	225365	105.548 ng/ml
Diphenhydramine	5.260	3264447	92449.5	31.88	30674.2	1417525	96.842 ng/ml
Doxylamine	4.492	3385986	71806.1	94.34	337473.0	1068312	103.143 ng/ml
Duloxetine	5.631	154361	3034.3	10.52	130.9	43378	101.206 ng/ml
EDDP	5.223	1685056	32917.7	43.32	22608.1	796446	102.397 ng/ml
Etizolam	5.790	54422	2742.0	391.89	∞	129012	90.742 ng/ml
Fentanyl	5.067	109704	8649.8	126.00	7262.4	502363	10.614 ng/ml
Flualprazolam	5.671	223055	8455.5	97.85	35301.4	51984	141.897 ng/ml
Fluorofentanyl	5.123	99881	1089.5	122.52	850.8	5528	9.768 ng/ml
Fluoxetine	5.698	820378	579641.3	6.36	9340.5	258652	99.063 ng/ml
Hydrocodone	2.936	418556	4053.8	37.65	2439.4	237819	97.515 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.522	399857	7799.9	72.92	9316.6	117233	109.367 ng/ml
Hydroxyzine	5.696	686936	21800.8	116.21	987.6	1165192	89.561 ng/ml
Ketamine	3.999	906320	49358.0	38.61	2945.9	394554	107.641 ng/ml
Lamotrigine	4.234	73983	4824.9	99.21	151516.7	258652	76.183 ng/ml
Lorazepam	5.718	54511	∞	46.85	647.6	56530	88.544 ng/ml
MDA	3.111	1150470	21829.7	29.24	∞	298444	103.780 ng/ml
MDMA	3.213	944326	2216005.7	104.87	64374.8	90049	99.864 ng/ml
Meprobamate	4.849	285193	3947.8	32.34	1727.9	94252	98.532 ng/ml
Methadone	5.640	1887961	29613.9	49.03	19060.2	622273	97.210 ng/ml
Methamphetamine	3.132	2123946	∞	39.46	26839.0	931626	100.682 ng/ml
Metoprolol	4.278	268034	16210.1	96.97	∞	1165192	101.764 ng/ml
Mirtazapine	4.589	2131310	102657.5	49.21	132106.2	467989	101.830 ng/ml
Mitragynine	5.199	358169	78715.4	31.96	24898.1	1165192	110.080 ng/ml
Morphine	1.161	63266	28163.0	21.04	4785.0	8911	86.699 ng/ml
Norbuprenorphine	4.952	8481	4454.6	100.84	66102.1	13334	9.316 ng/ml
Nordiazepam	5.876	170252	12727.1	58.00	67751.8	51984	103.553 ng/ml
Norfentanyl	4.030	26398	1290.8	295.99	3429.0	756156	8.934 ng/ml
Noroxycodone	2.813	384329	6111.0	46.06	2839.3	128114	95.272 ng/ml
O-desmethyl-tramadol	3.304	2468341	238785.8	6.32	7201.3	988956	97.618 ng/ml
O-Desmethylvenlafaxine	4.013	663659	341.6	239.69	2705.5	230745	103.567 ng/ml
Olanzapine	4.450	912377	4951.4	45.64	1107.2	227918	114.723 ng/ml
Oxazepam	5.720	106836	5167.7	71.04	397.8	56530	84.931 ng/ml
Oxycodone	2.731	999142	68698.9	30.65	25936.9	344747	98.751 ng/ml
Oxymorphone	1.314	590005	∞	45.20	∞	196229	98.031 ng/ml
Phentermine	3.709	416733	25191.4	11.11	1846.8	467989	110.395 ng/ml
Promethazine	5.521	1576253	28748.5	38.28	14800.9	710515	102.081 ng/ml
Pseudoephedrine	2.481	2831556	∞	17.32	6404.4	1165192	94.922 ng/ml
Quetiapine	5.544	1076463	∞	63.11	23771.1	155407	98.614 ng/ml
Sertraline	5.765	166600	2832.0	96.14	6886.2	65011	100.437 ng/ml
Temazepam	5.792	413844	11655.7	32.14	570.0	188720	101.282 ng/ml
Tramadol	4.192	2427861	∞	3.42	∞	952953	104.110 ng/ml
Trazodone	5.143	1076970	37430.5	123.21	27359.0	505667	98.725 ng/ml
Venlafaxine	4.996	1773296	38315.3	46.55	8470.1	864995	94.144 ng/ml
Zolpidem	4.898	2353621	107021.2	28.30	77350.3	902418	104.527 ng/ml

# AM #28 Multi-Drug Quant. Results

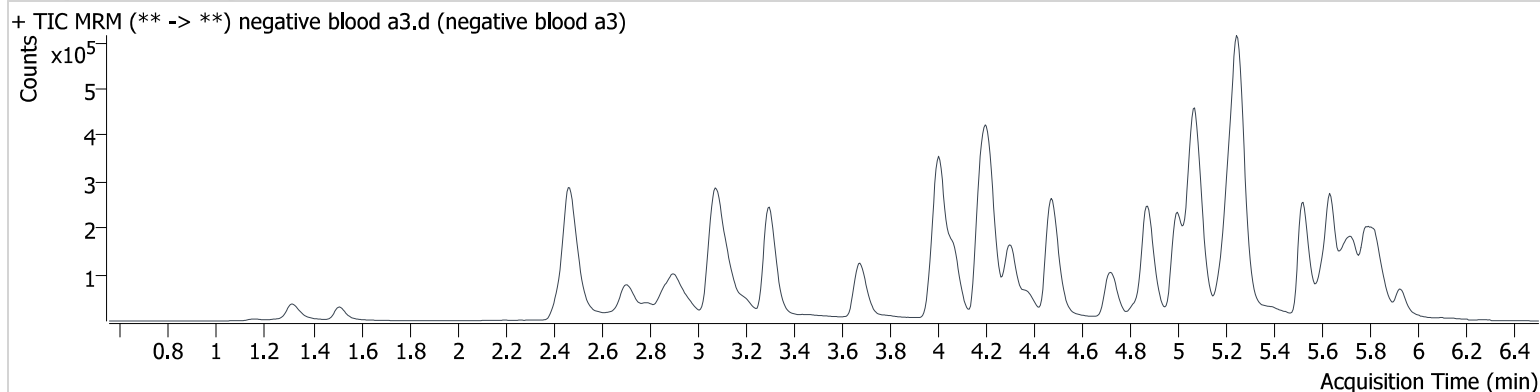
**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-A3  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 11:41:10 AM  
**Sample Info.**

**Data File** negative blood a3.d  
**Sample** negative blood a3  
**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



# AM #28 Multi-Drug Quant. Results

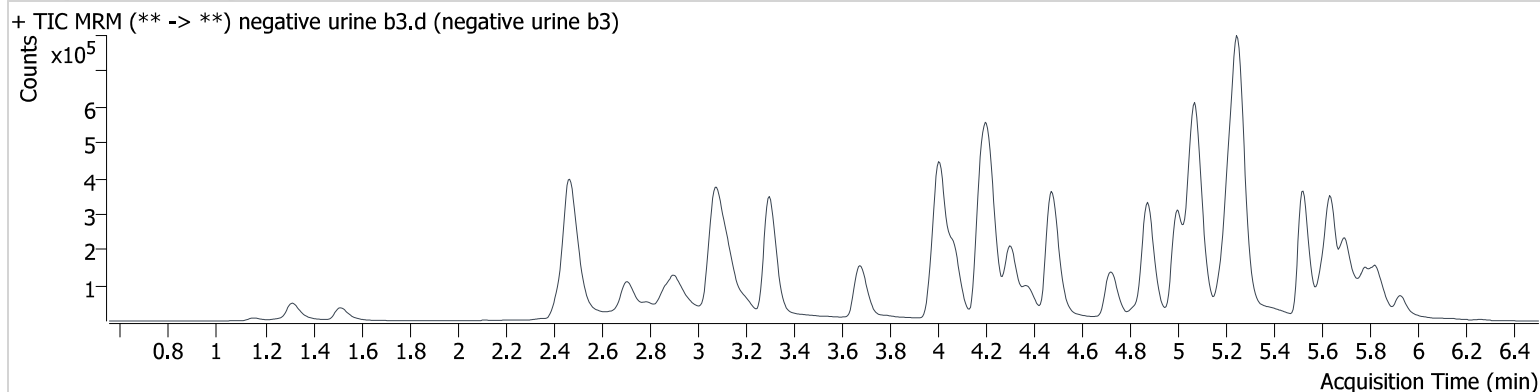
**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-B3  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 11:49:52 AM  
**Sample Info.**

**Data File** negative urine b3.d  
**Sample** negative urine b3  
**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



# AM #28 Multi-Drug Quant. Results

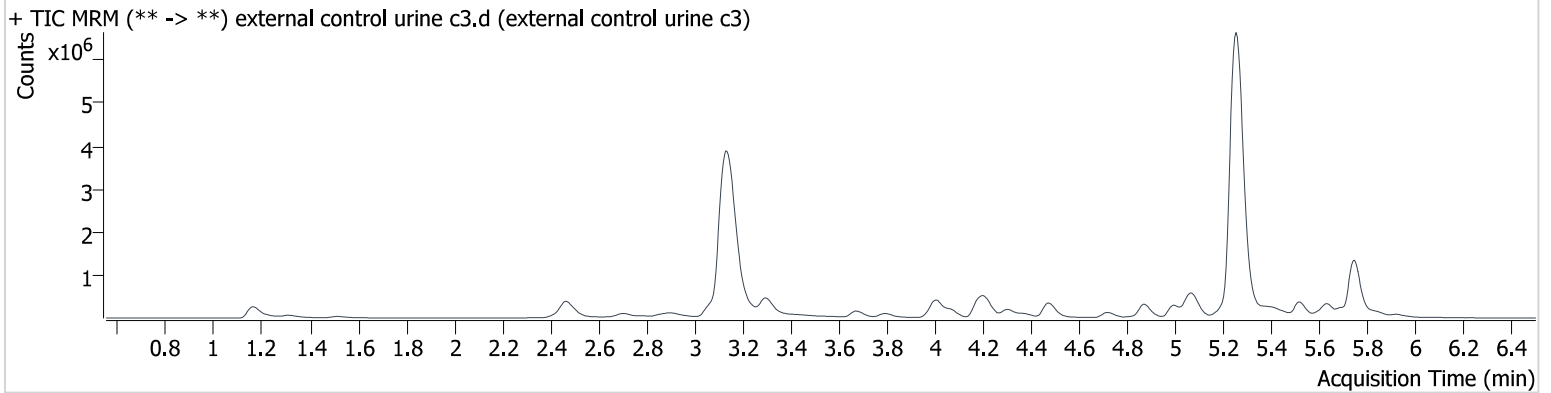
**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-C3  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 11:58:35 AM  
**Sample Info.**

**Data File** external control urine c3.d  
**Sample** external control urine c3  
**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

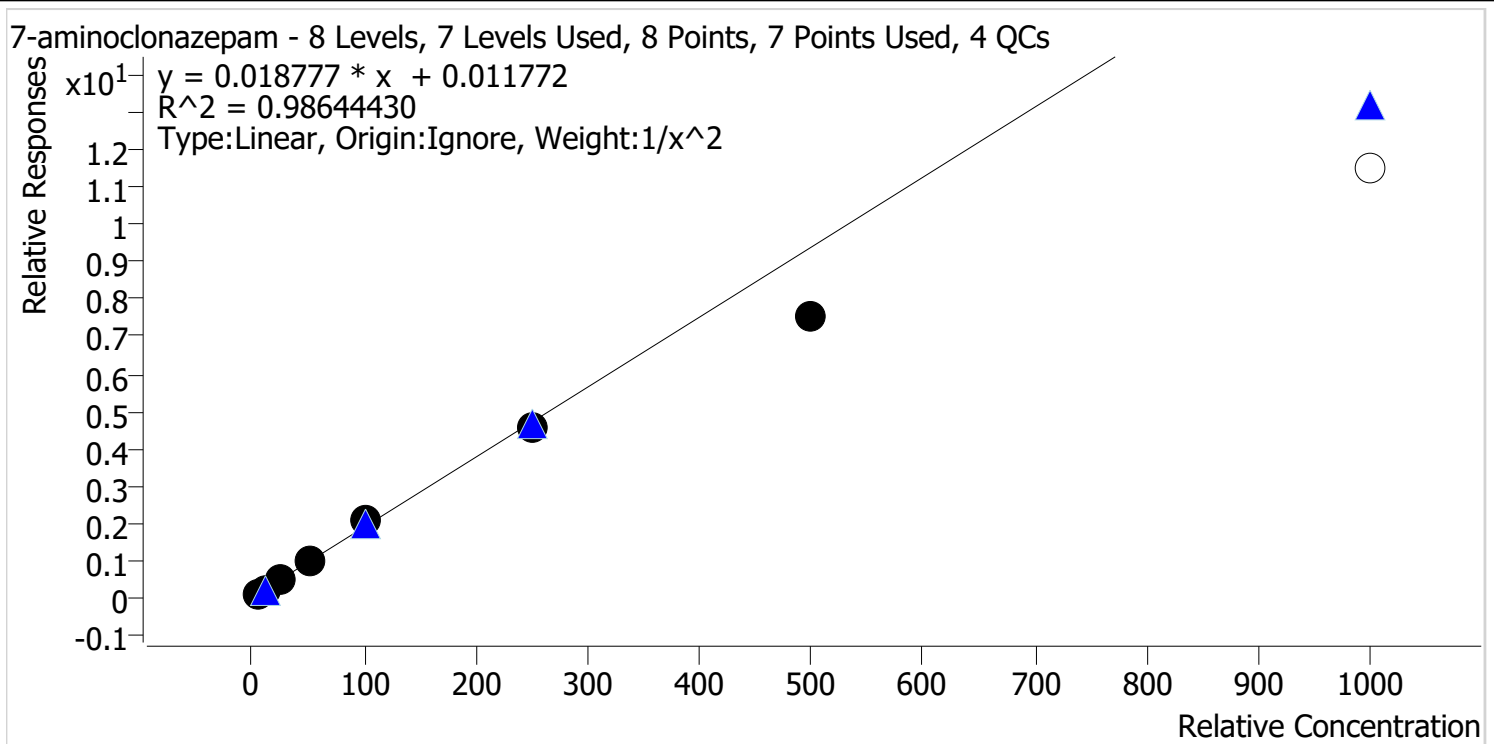


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.744	2289702	∞	90.25	∞	117506	648.313 ng/ml
Diphenhydramine	5.255	19807651	244972.3	29.39	∞	1304620	636.175 ng/ml
Methamphetamine	3.137	10321135	∞	41.27	∞	969570	510.909 ng/ml
Morphine	1.166	328934	52781.8	20.48	10779.0	8093	497.886 ng/ml



# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	7-aminoclonazepam	<b>Internal Standard</b>	7-Aminoclonazepam-D4



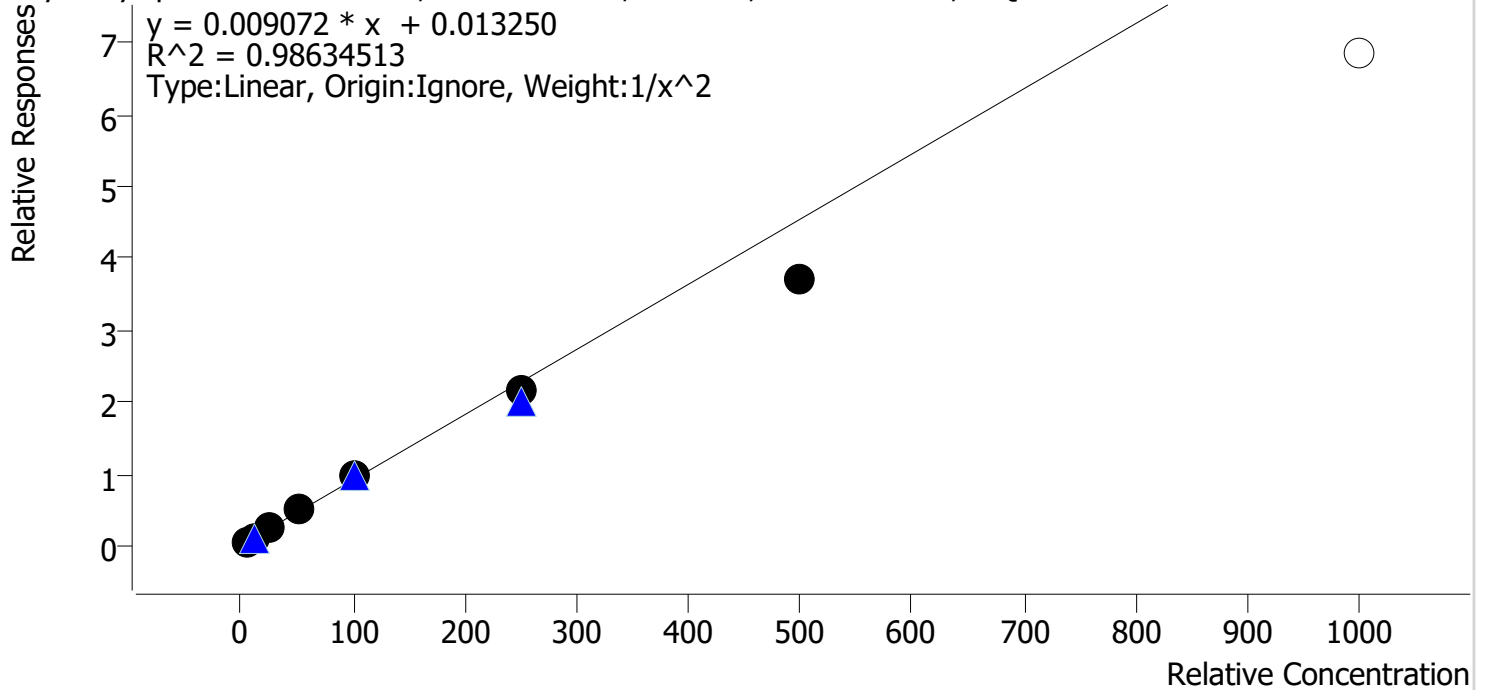
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.7
cal 2 mdq	2	✓	10.0	10.4	104.3
cal 3 mdq	3	✓	25.0	26.5	106.1
cal 4 mdq	4	✓	50.0	53.7	107.3
cal 5 mdq	5	✓	100.0	108.7	108.7
cal 6 mdq	6	✓	250.0	243.7	97.5
cal 7 mdq	7	✓	500.0	402.4	80.5
cal 8 mdq	8	✗	1000.0	614.8	61.5



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** Clonazepam-D4

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



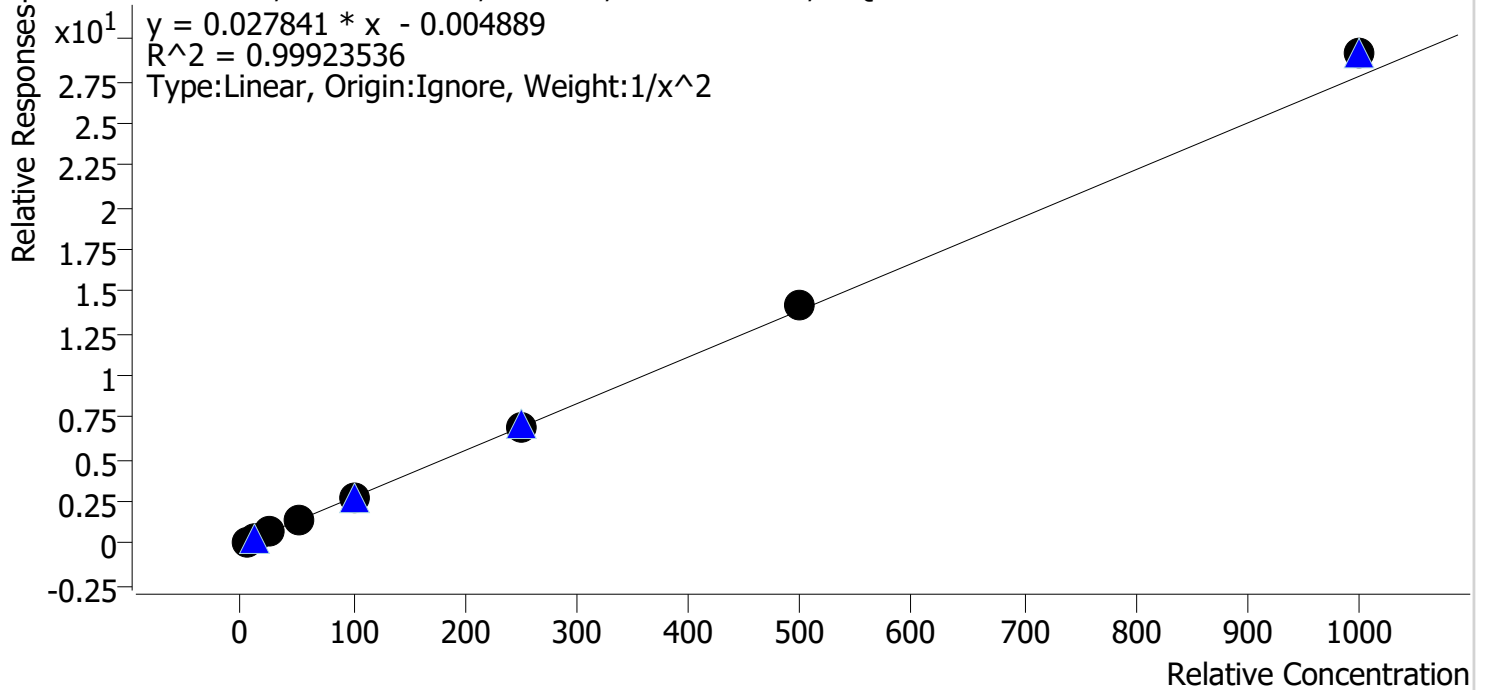
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.5
cal 2 mdq	2	✓	10.0	10.0	99.9
cal 3 mdq	3	✓	25.0	26.6	106.5
cal 4 mdq	4	✓	50.0	55.2	110.3
cal 5 mdq	5	✓	100.0	108.6	108.6
cal 6 mdq	6	✓	250.0	239.1	95.6
cal 7 mdq	7	✓	500.0	407.1	81.4
cal 8 mdq	8	✗	1000.0	754.0	75.4



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8

alpha-PVP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

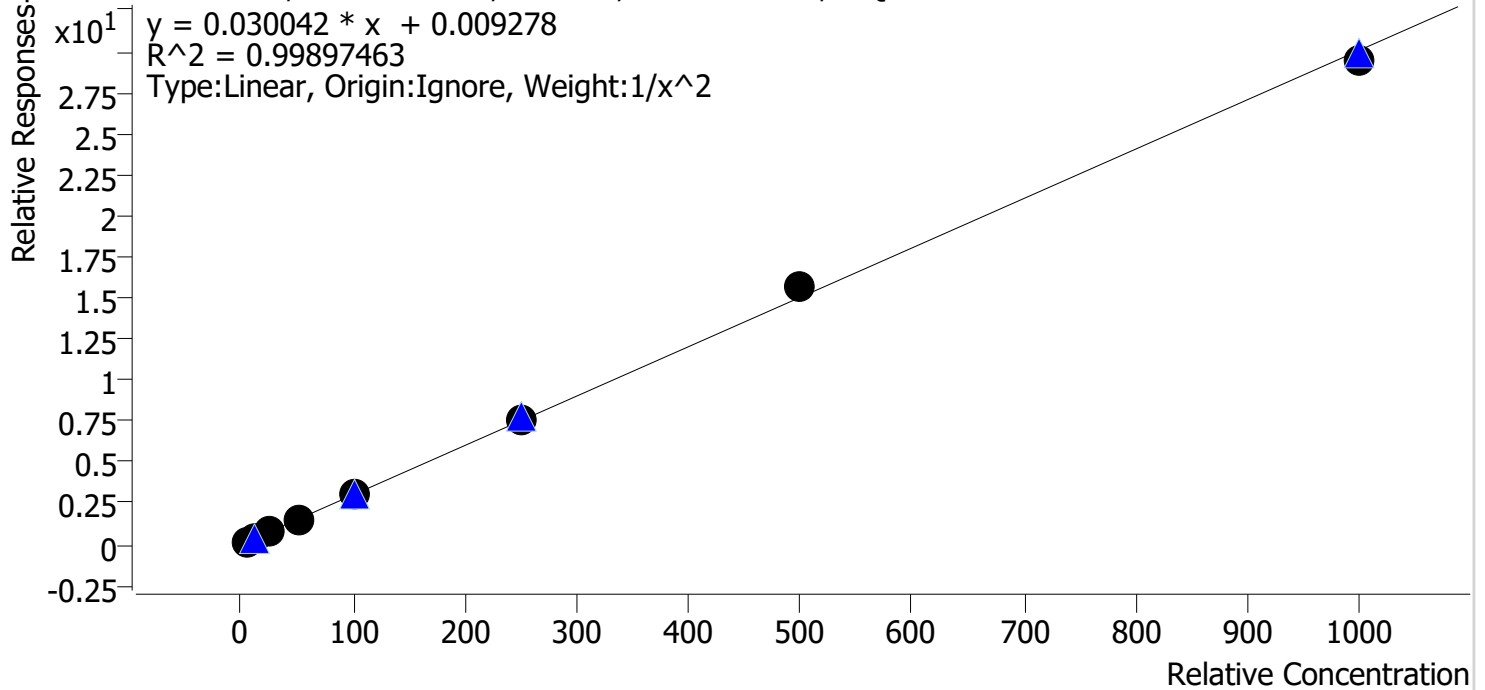


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.3
cal 2 mdq	2	✓	10.0	9.9	98.5
cal 3 mdq	3	✓	25.0	24.5	98.1
cal 4 mdq	4	✓	50.0	49.2	98.4
cal 5 mdq	5	✓	100.0	98.1	98.1
cal 6 mdq	6	✓	250.0	247.8	99.1
cal 7 mdq	7	✓	500.0	507.8	101.6
cal 8 mdq	8	✓	1000.0	1048.5	104.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

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

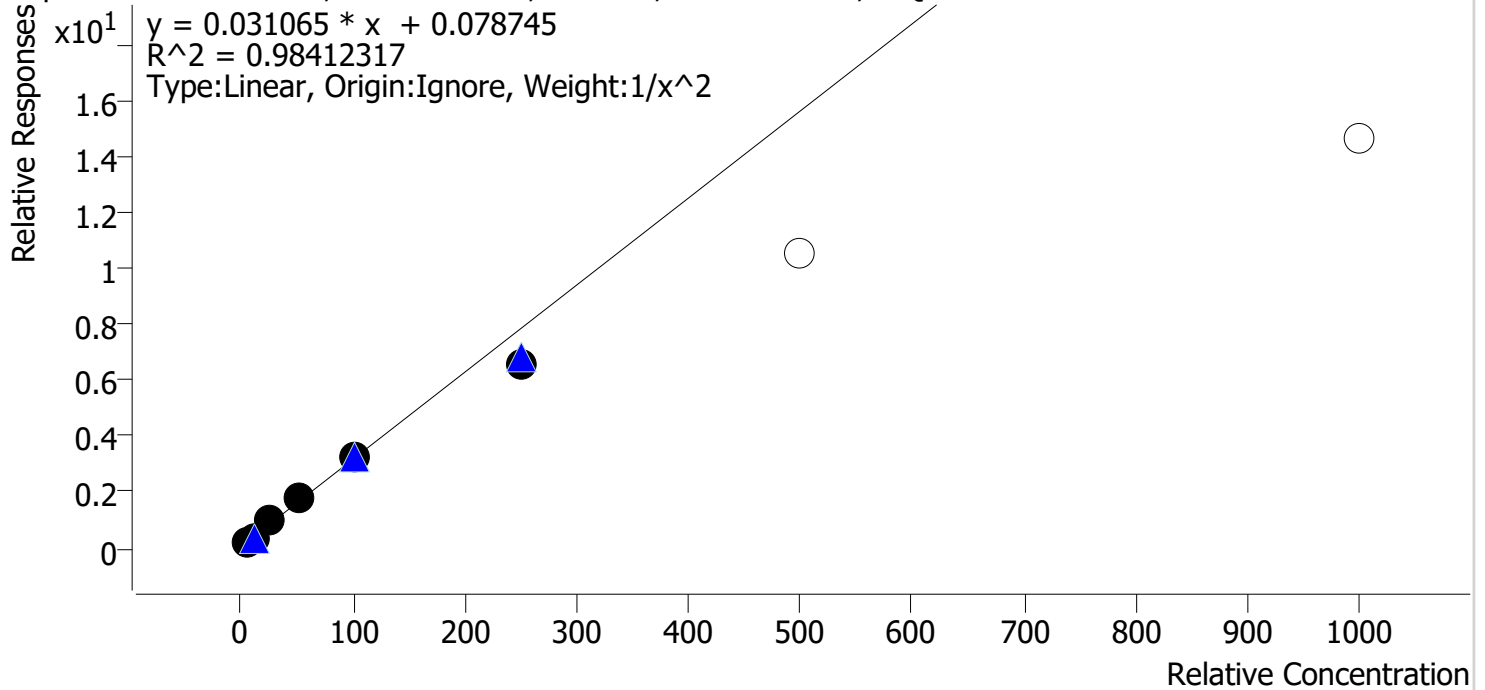


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.3
cal 2 mdq	2	✓	10.0	9.9	98.9
cal 3 mdq	3	✓	25.0	24.2	96.9
cal 4 mdq	4	✓	50.0	48.5	96.9
cal 5 mdq	5	✓	100.0	101.1	101.1
cal 6 mdq	6	✓	250.0	254.6	101.8
cal 7 mdq	7	✓	500.0	524.3	104.9
cal 8 mdq	8	✓	1000.0	980.6	98.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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

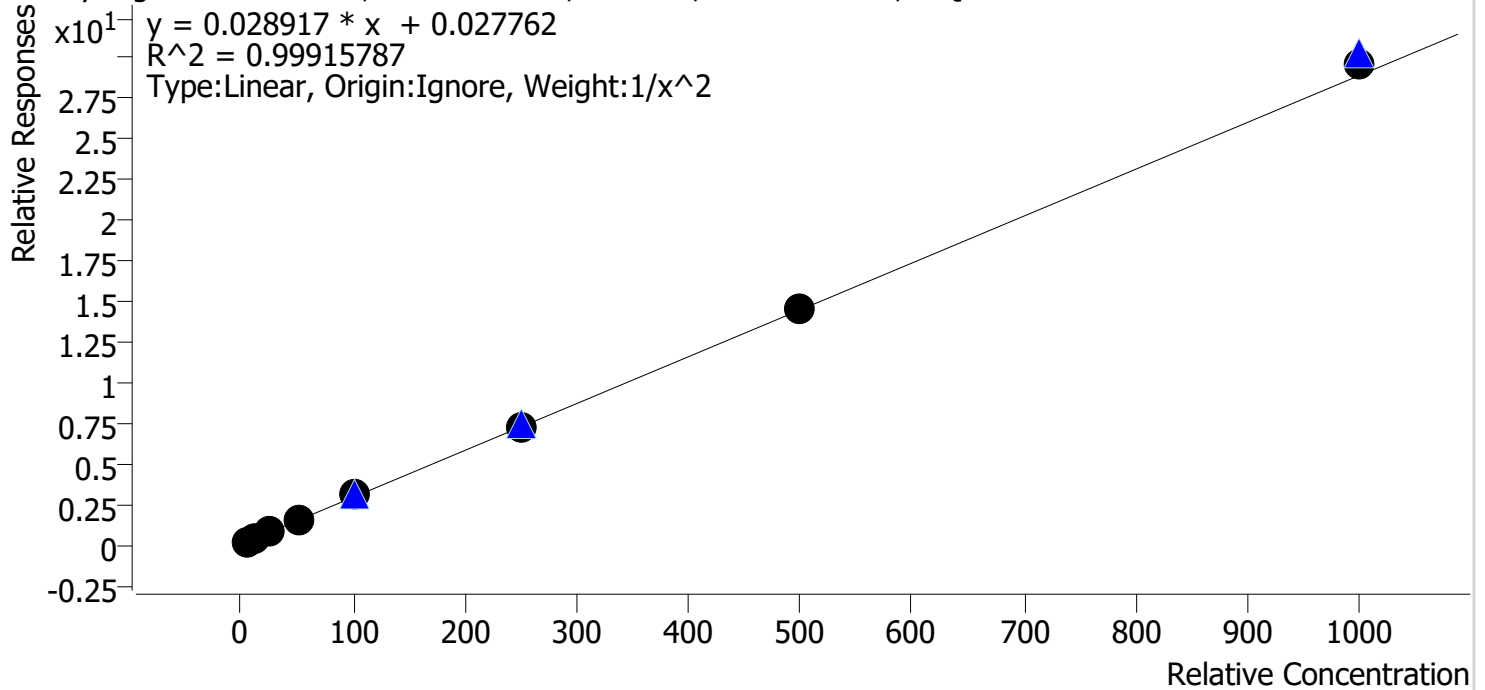


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.8
cal 2 mdq	2	✓	10.0	9.2	92.3
cal 3 mdq	3	✓	25.0	28.1	112.5
cal 4 mdq	4	✓	50.0	53.8	107.5
cal 5 mdq	5	✓	100.0	102.9	102.9
cal 6 mdq	6	✓	250.0	210.1	84.0
cal 7 mdq	7	✗	500.0	335.5	67.1
cal 8 mdq	8	✗	1000.0	468.9	46.9

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Benzoylecgonine	<b>Internal Standard</b>	Benzoylecgonine-d8

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

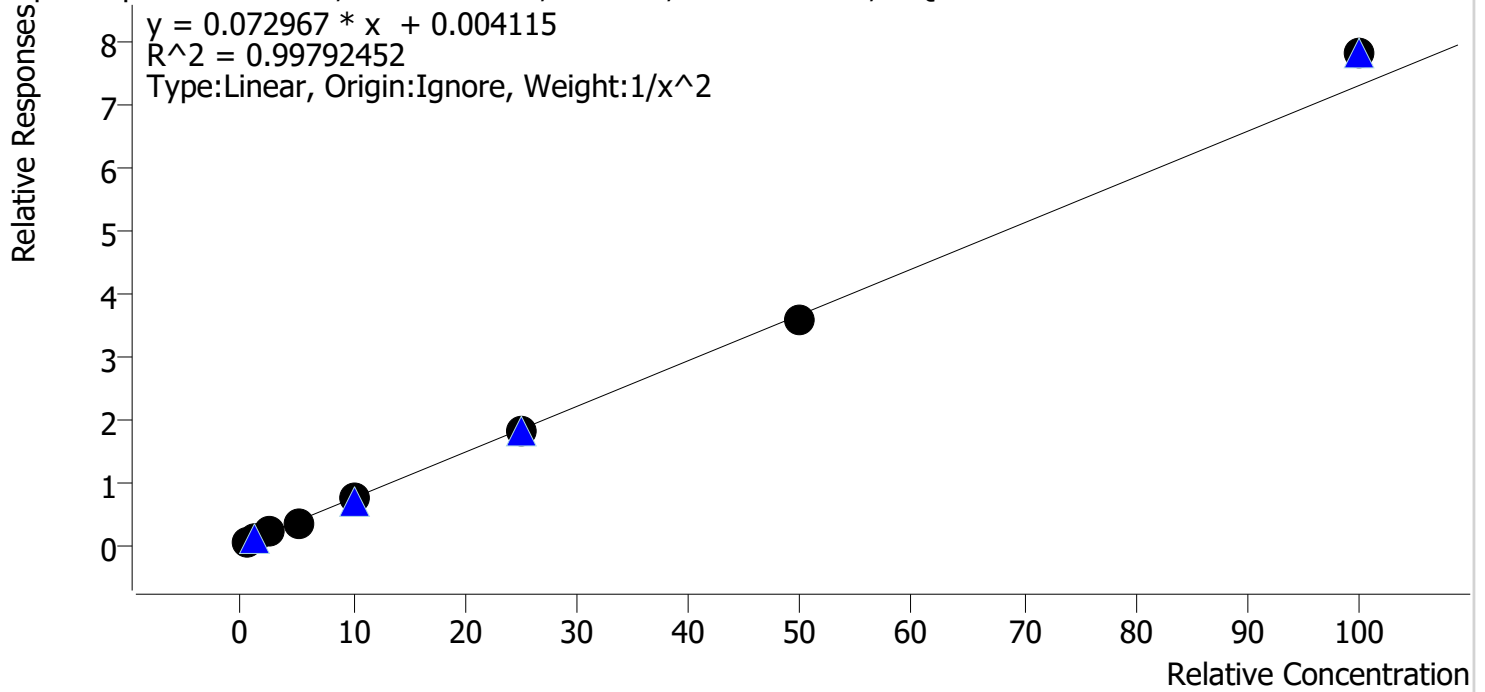


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.5
cal 2 mdq	2	✓	10.0	9.9	98.6
cal 3 mdq	3	✓	25.0	24.1	96.4
cal 4 mdq	4	✓	50.0	48.6	97.3
cal 5 mdq	5	✓	100.0	103.7	103.7
cal 6 mdq	6	✓	250.0	250.7	100.3
cal 7 mdq	7	✓	500.0	498.7	99.7
cal 8 mdq	8	✓	1000.0	1025.4	102.5

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

Buprenorphine - 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	99.0
cal 2 mdq	2	✓	1.0	1.0	101.8
cal 3 mdq	3	✓	2.5	2.6	104.1
cal 4 mdq	4	✓	5.0	4.8	95.1
cal 5 mdq	5	✓	10.0	9.7	96.9
cal 6 mdq	6	✓	25.0	24.6	98.5
cal 7 mdq	7	✓	50.0	48.8	97.7
cal 8 mdq	8	✓	100.0	106.9	106.9



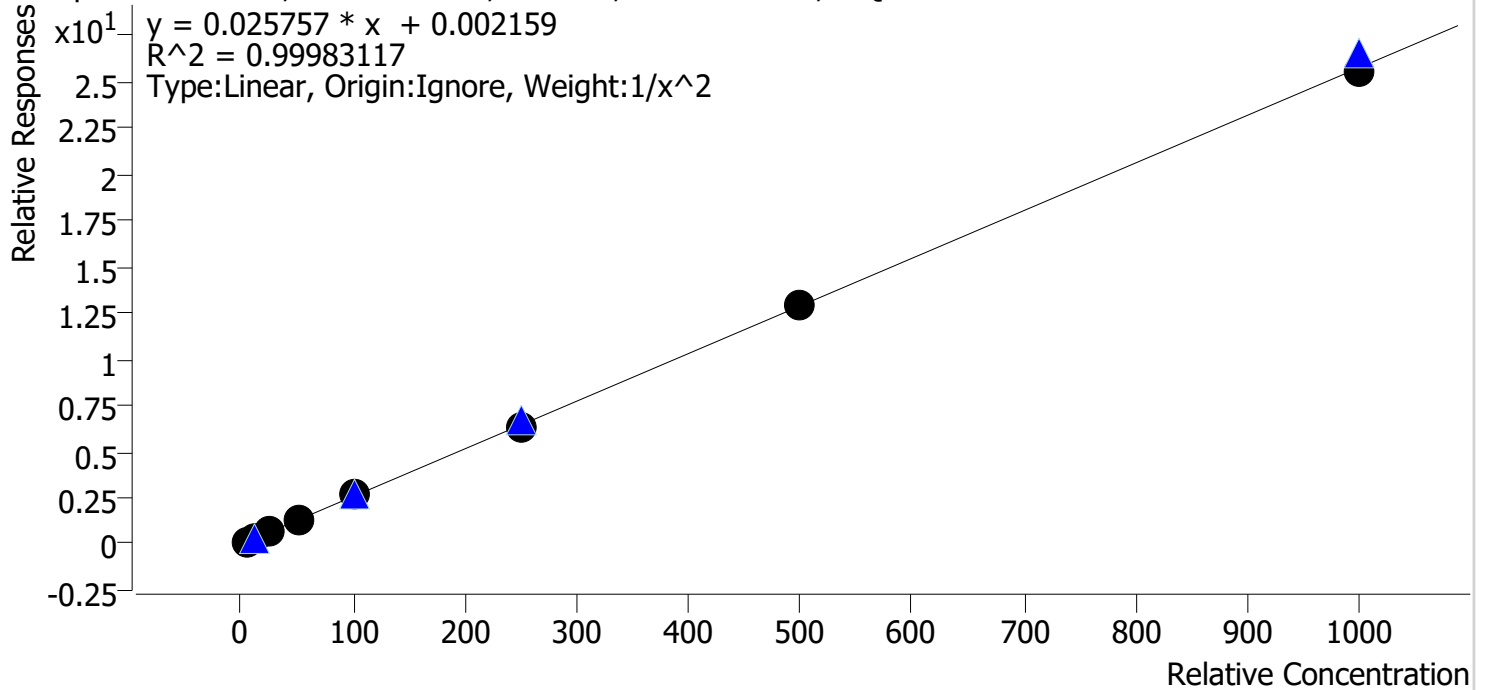




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

Citalopram - 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	99.9
cal 2 mdq	2	✓	10.0	10.0	99.9
cal 3 mdq	3	✓	25.0	25.1	100.2
cal 4 mdq	4	✓	50.0	50.4	100.7
cal 5 mdq	5	✓	100.0	102.2	102.2
cal 6 mdq	6	✓	250.0	246.2	98.5
cal 7 mdq	7	✓	500.0	499.2	99.8
cal 8 mdq	8	✓	1000.0	988.6	98.9

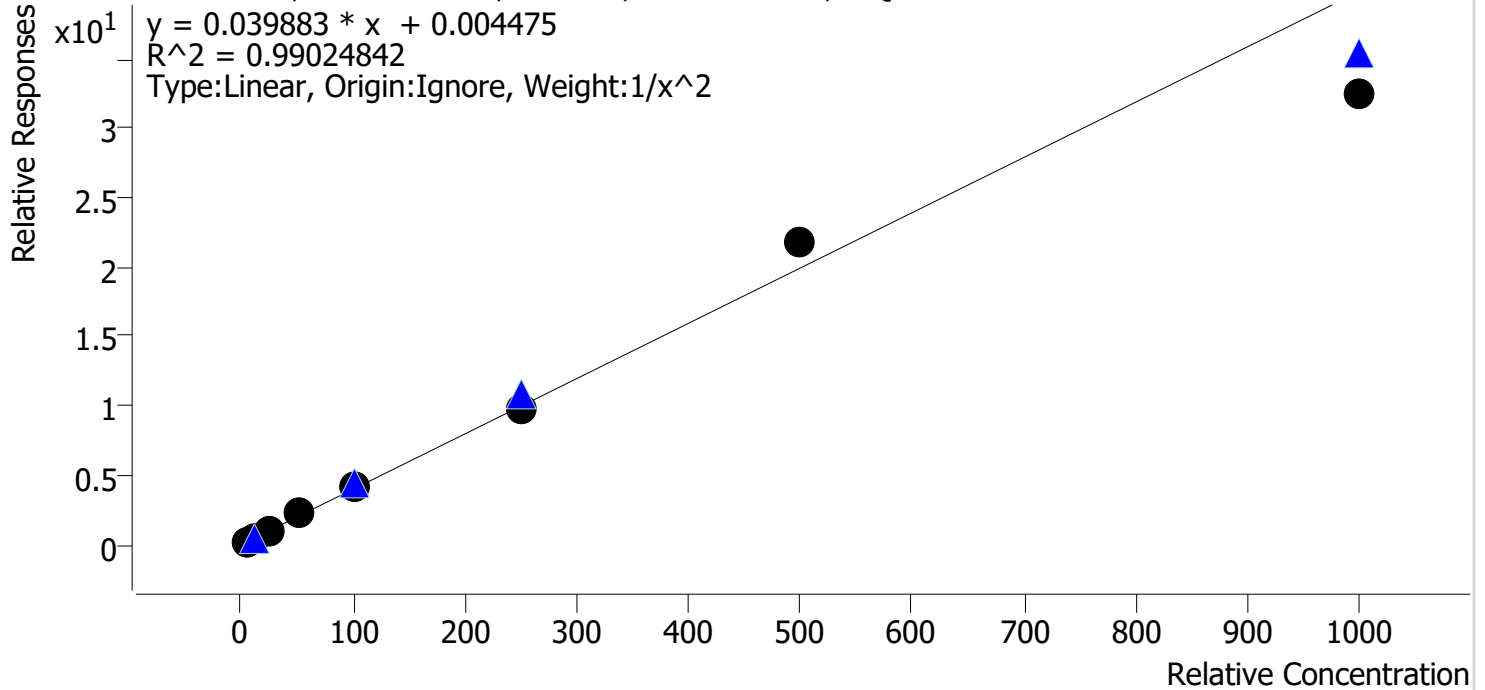


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazolam

**Internal Standard** Nordiazepam-D5

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



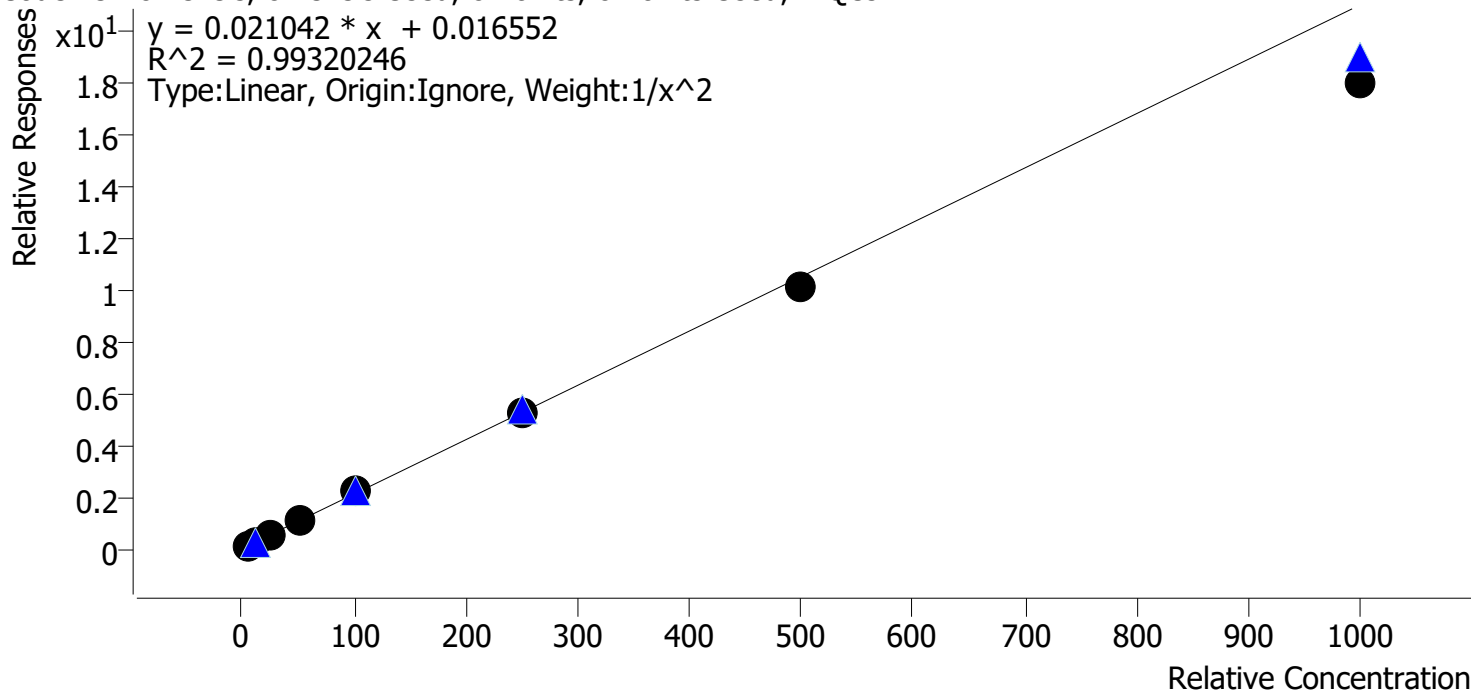
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.7
cal 2 mdq	2	✓	10.0	10.1	100.5
cal 3 mdq	3	✓	25.0	25.1	100.3
cal 4 mdq	4	✓	50.0	54.2	108.4
cal 5 mdq	5	✓	100.0	103.0	103.0
cal 6 mdq	6	✓	250.0	244.2	97.7
cal 7 mdq	7	✓	500.0	548.7	109.7
cal 8 mdq	8	✓	1000.0	816.3	81.6



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

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

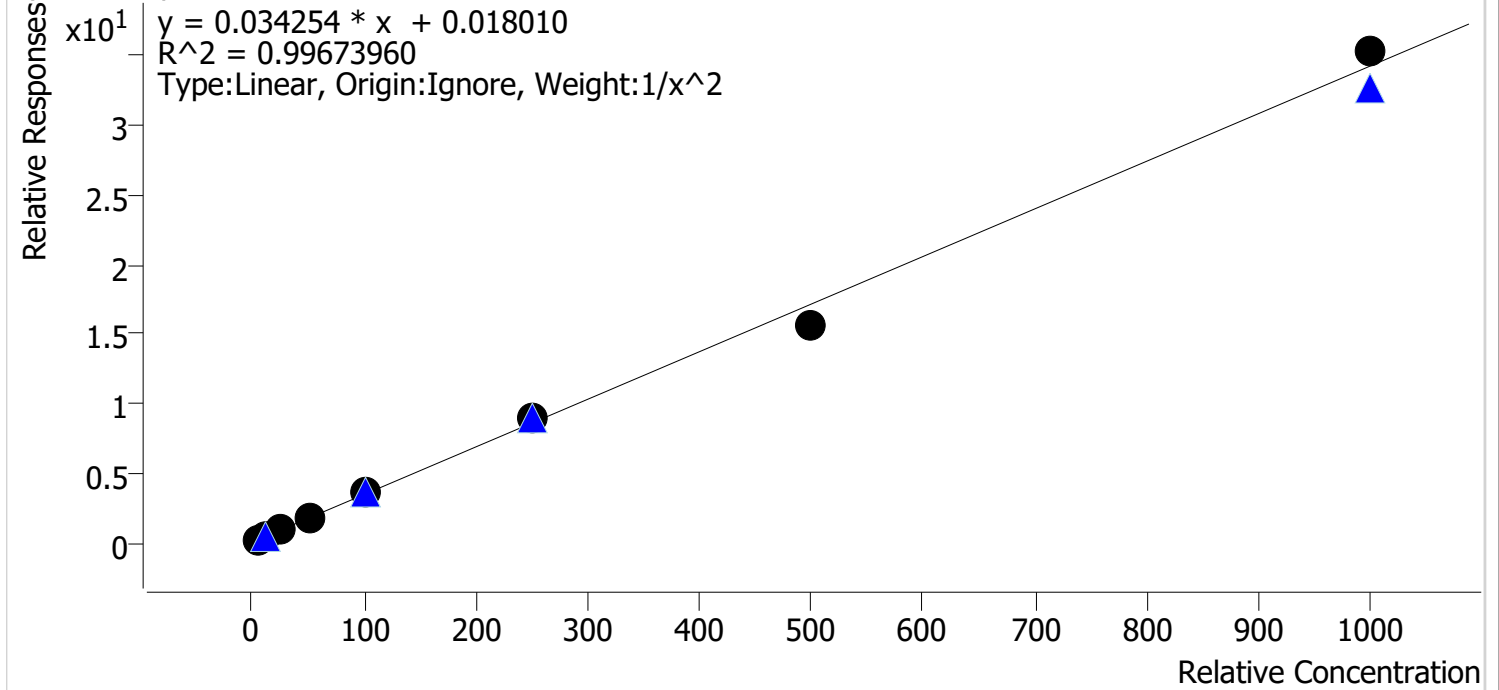


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.9
cal 2 mdq	2	✓	10.0	10.4	104.2
cal 3 mdq	3	✓	25.0	26.7	106.9
cal 4 mdq	4	✓	50.0	52.4	104.8
cal 5 mdq	5	✓	100.0	105.5	105.5
cal 6 mdq	6	✓	250.0	252.6	101.0
cal 7 mdq	7	✓	500.0	481.5	96.3
cal 8 mdq	8	✓	1000.0	854.7	85.5

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Cyclobenzaprine	<b>Internal Standard</b>	Cyclobenzaprine-D3

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

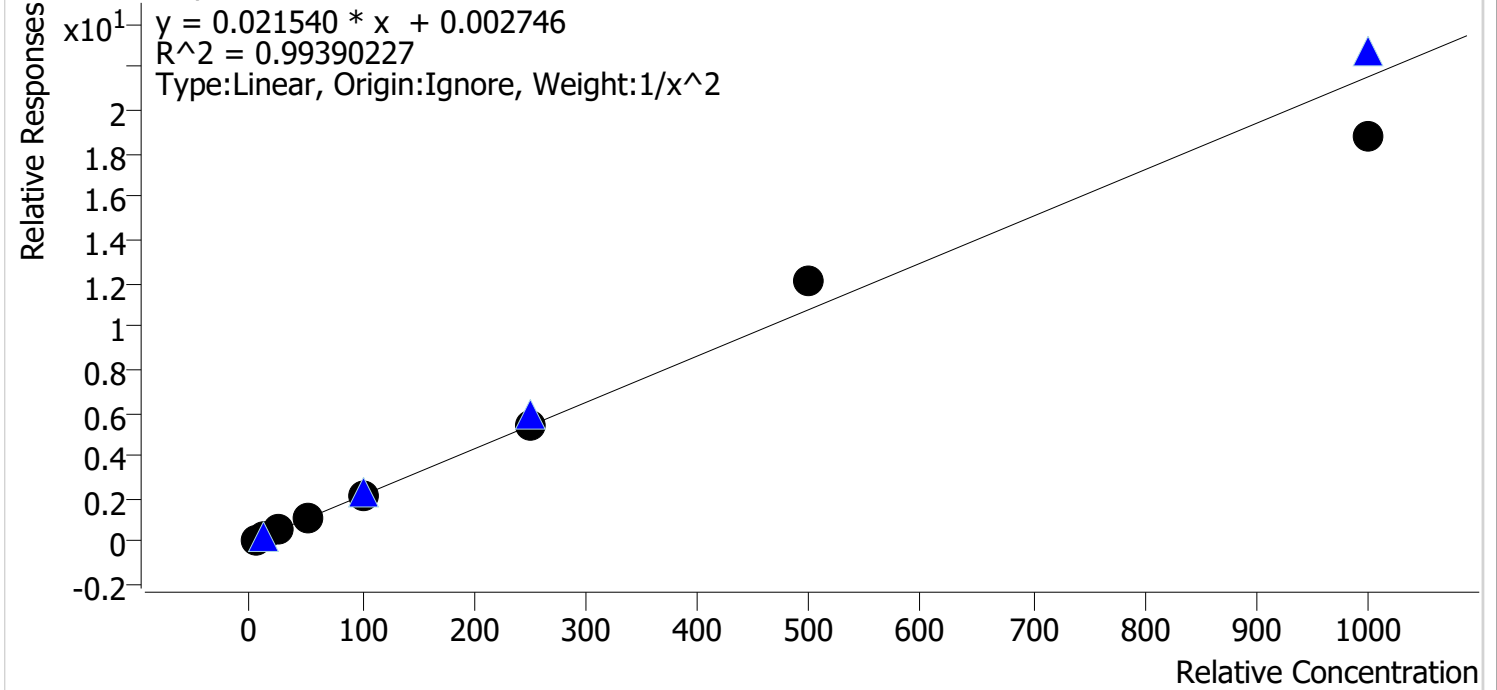


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.1
cal 2 mdq	2	✓	10.0	10.1	101.4
cal 3 mdq	3	✓	25.0	25.6	102.4
cal 4 mdq	4	✓	50.0	47.4	94.9
cal 5 mdq	5	✓	100.0	104.4	104.4
cal 6 mdq	6	✓	250.0	260.8	104.3
cal 7 mdq	7	✓	500.0	452.4	90.5
cal 8 mdq	8	✓	1000.0	1030.4	103.0

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dextromethorphan	<b>Internal Standard</b>	Dextromethorphan-D3

Dextromethorphan - 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	100.8
cal 2 mdq	2	✓	10.0	9.9	98.5
cal 3 mdq	3	✓	25.0	24.9	99.7
cal 4 mdq	4	✓	50.0	48.9	97.9
cal 5 mdq	5	✓	100.0	102.1	102.1
cal 6 mdq	6	✓	250.0	252.6	101.1
cal 7 mdq	7	✓	500.0	561.9	112.4
cal 8 mdq	8	✓	1000.0	874.7	87.5









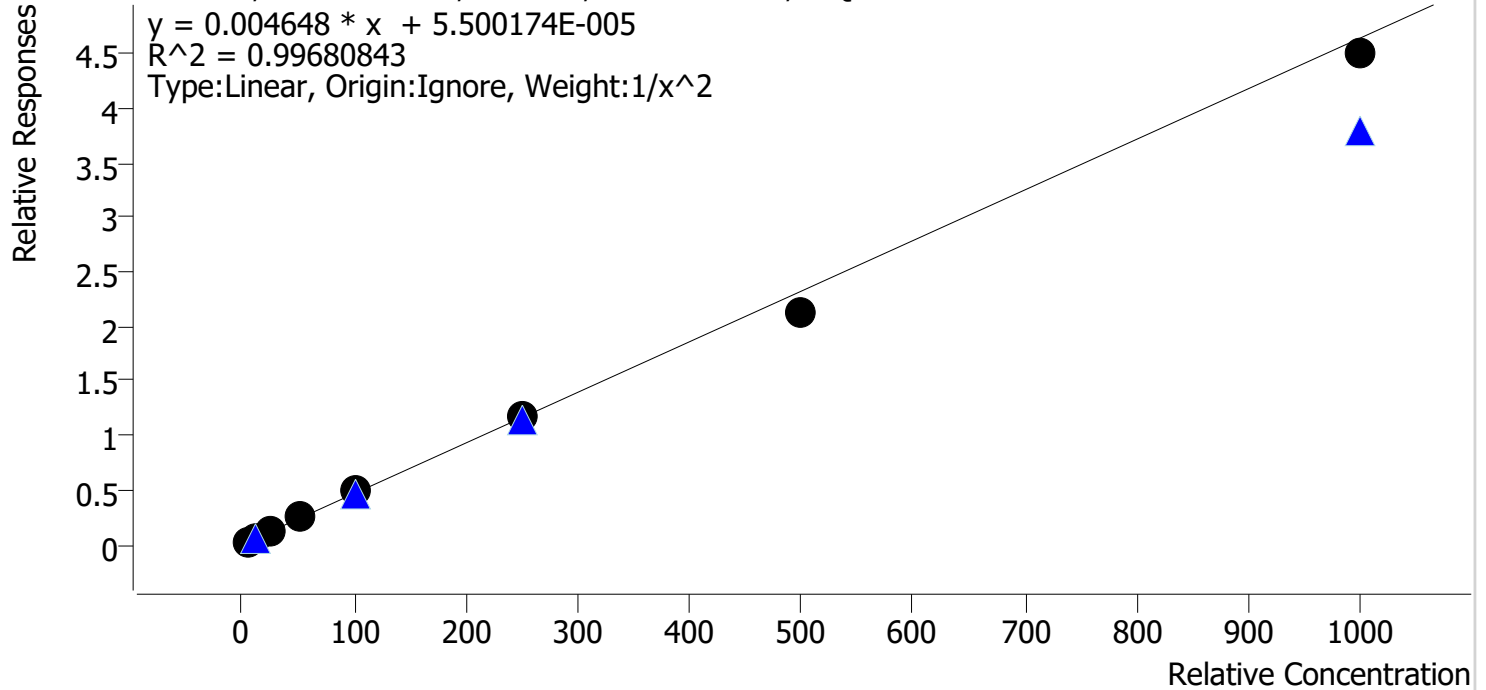




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Etizolam **Internal Standard** Diazepam-D5

Etizolam - 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	97.8
cal 2 mdq	2	✓	10.0	10.3	103.4
cal 3 mdq	3	✓	25.0	24.7	98.8
cal 4 mdq	4	✓	50.0	52.2	104.4
cal 5 mdq	5	✓	100.0	107.2	107.2
cal 6 mdq	6	✓	250.0	249.4	99.8
cal 7 mdq	7	✓	500.0	458.2	91.6
cal 8 mdq	8	✓	1000.0	969.4	96.9



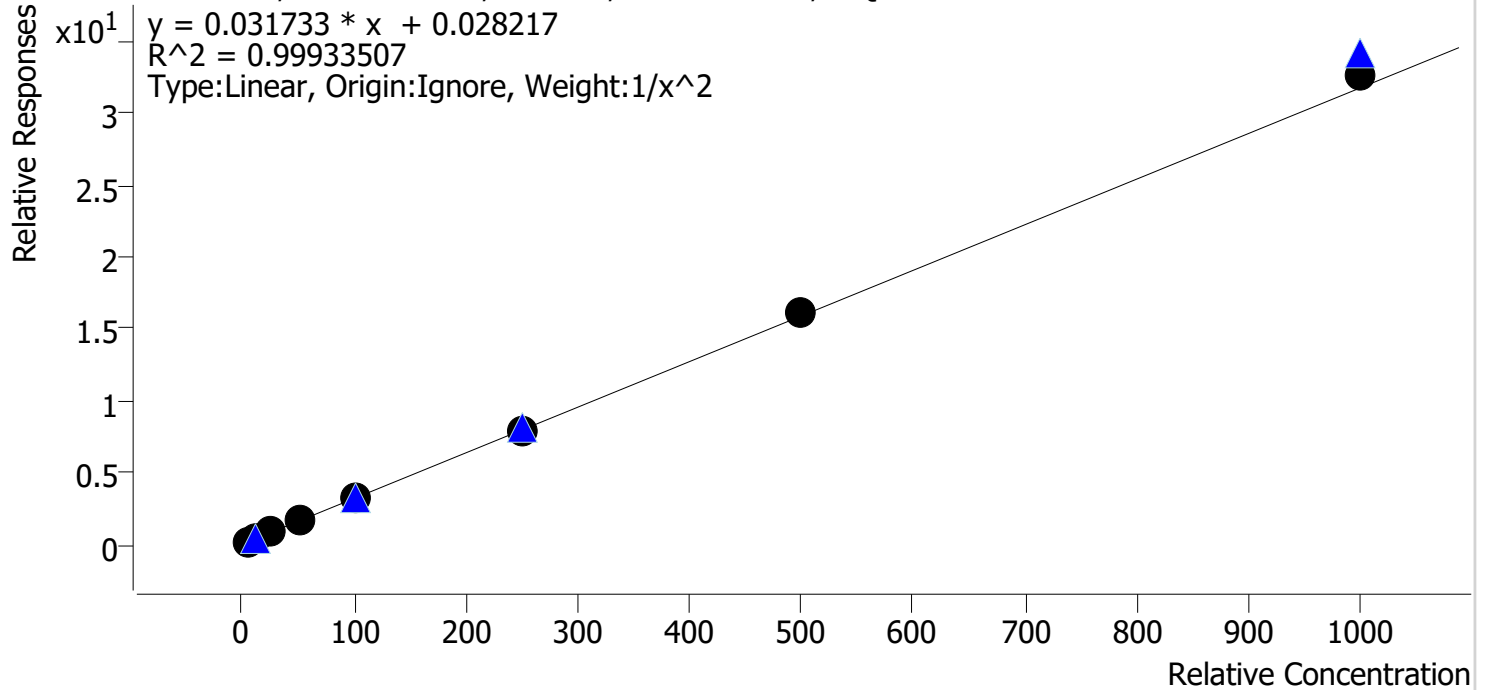




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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

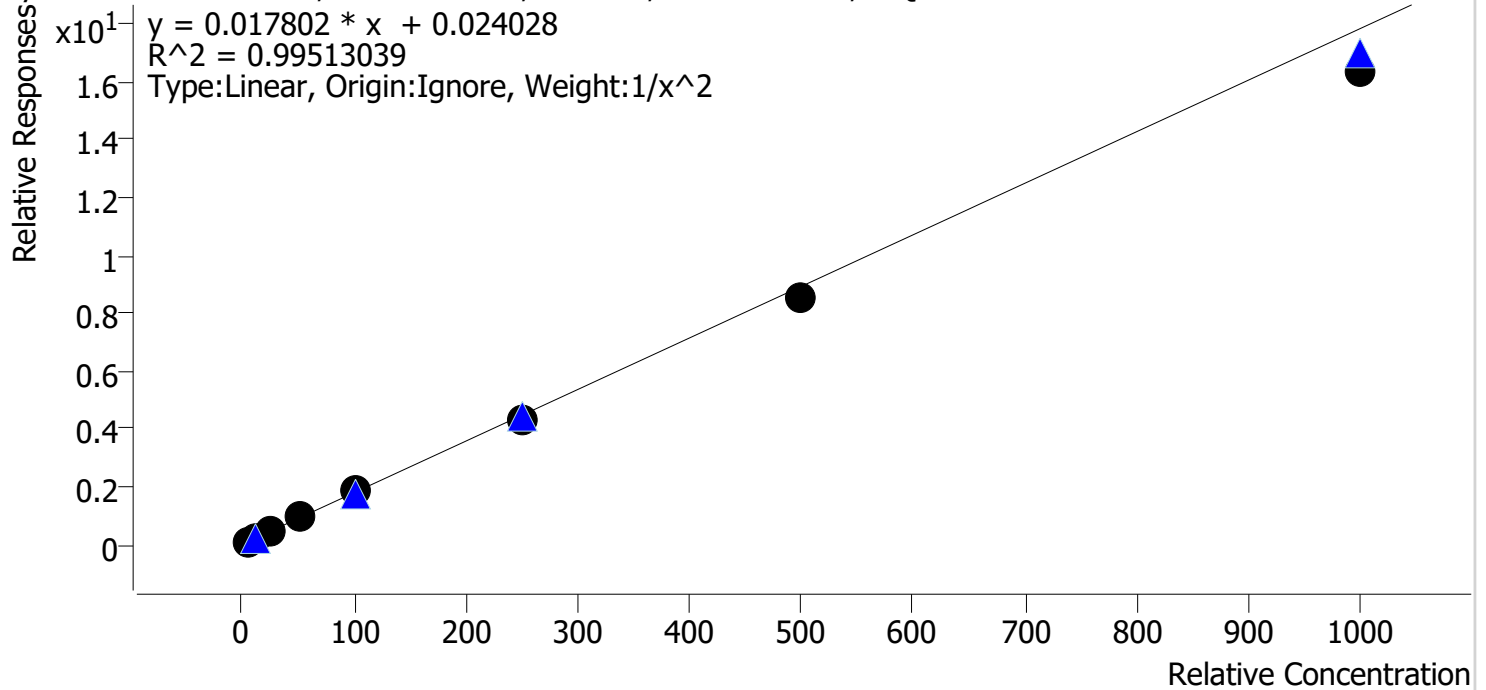


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.7
cal 2 mdq	2	✓	10.0	9.8	97.9
cal 3 mdq	3	✓	25.0	24.3	97.2
cal 4 mdq	4	✓	50.0	48.8	97.6
cal 5 mdq	5	✓	100.0	101.9	101.9
cal 6 mdq	6	✓	250.0	247.9	99.1
cal 7 mdq	7	✓	500.0	509.9	102.0
cal 8 mdq	8	✓	1000.0	1024.5	102.5

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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

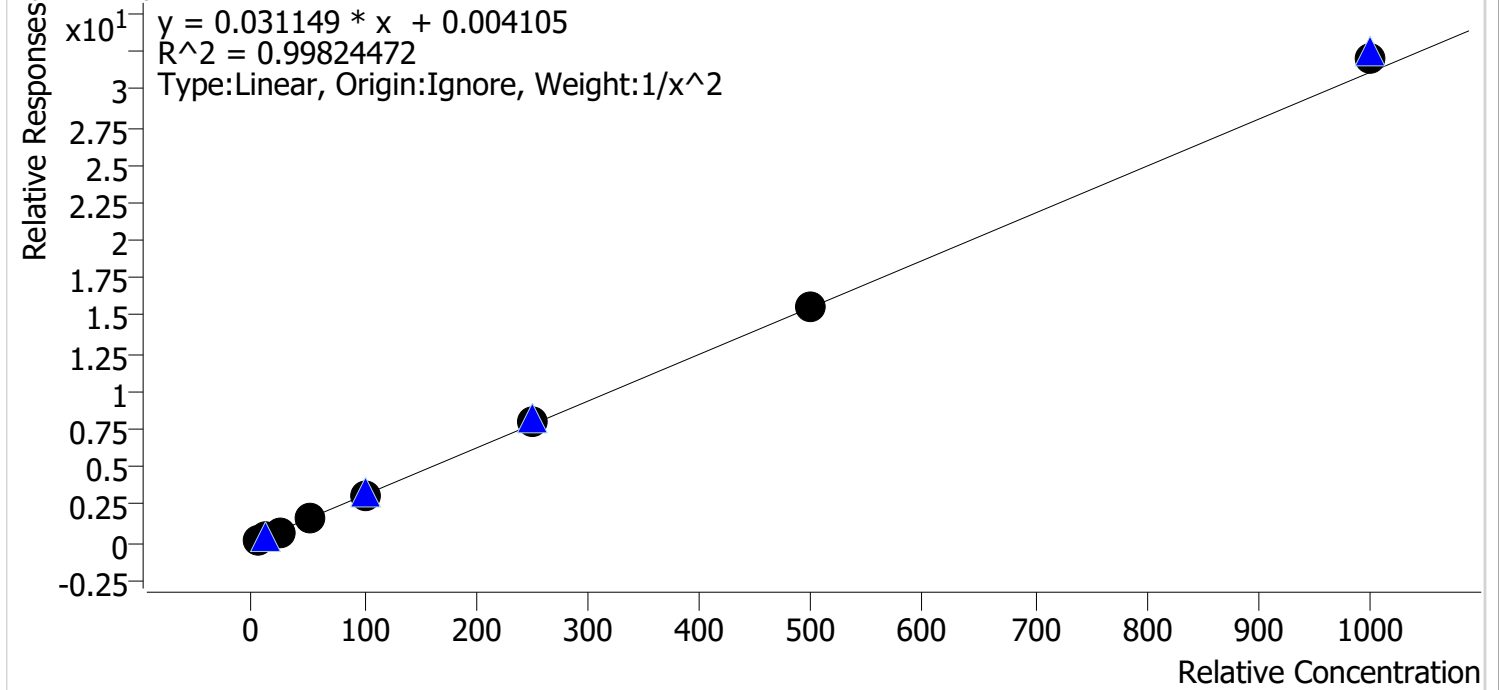


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.2
cal 2 mdq	2	✓	10.0	10.6	105.7
cal 3 mdq	3	✓	25.0	26.8	107.2
cal 4 mdq	4	✓	50.0	51.9	103.9
cal 5 mdq	5	✓	100.0	105.2	105.2
cal 6 mdq	6	✓	250.0	240.3	96.1
cal 7 mdq	7	✓	500.0	474.7	94.9
cal 8 mdq	8	✓	1000.0	917.3	91.7

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

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

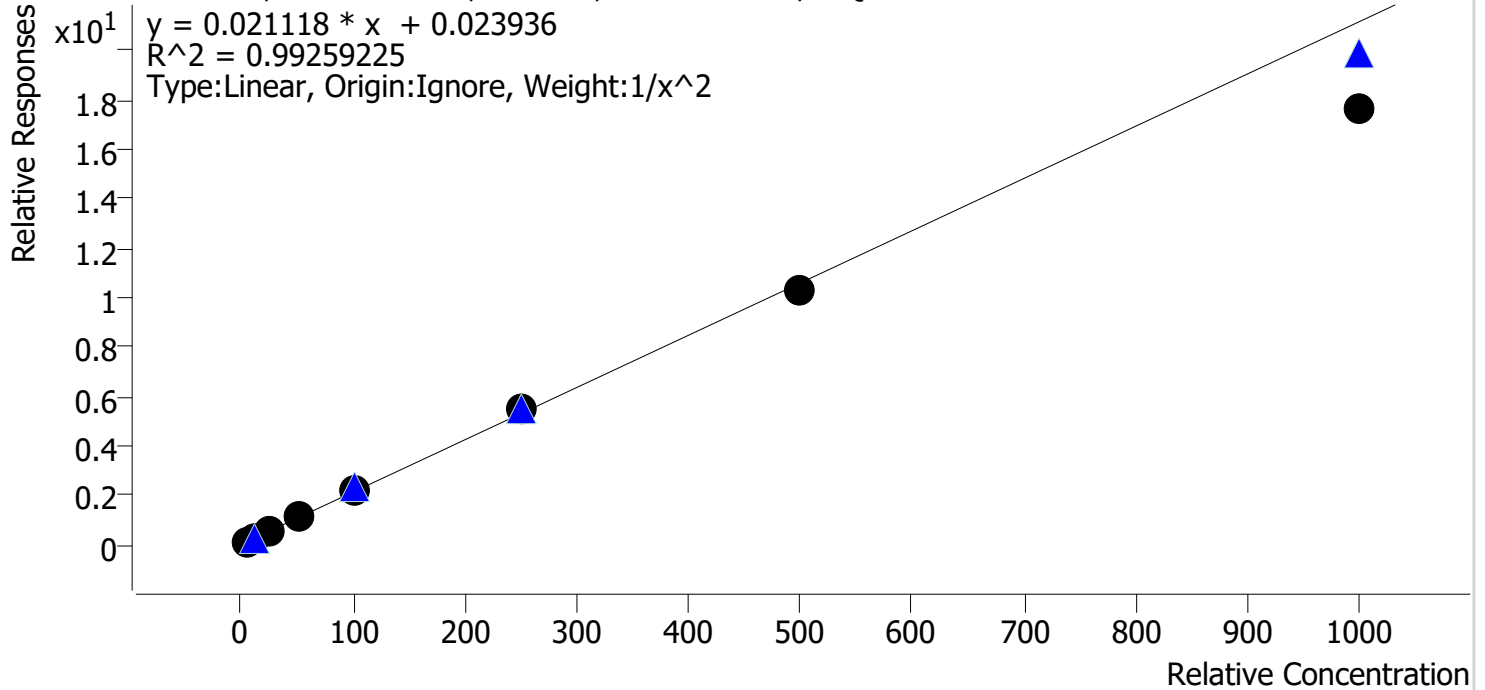


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	103.0
cal 2 mdq	2	✓	10.0	9.7	96.7
cal 3 mdq	3	✓	25.0	23.2	92.6
cal 4 mdq	4	✓	50.0	49.9	99.8
cal 5 mdq	5	✓	100.0	102.3	102.3
cal 6 mdq	6	✓	250.0	253.5	101.4
cal 7 mdq	7	✓	500.0	504.6	100.9
cal 8 mdq	8	✓	1000.0	1032.7	103.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



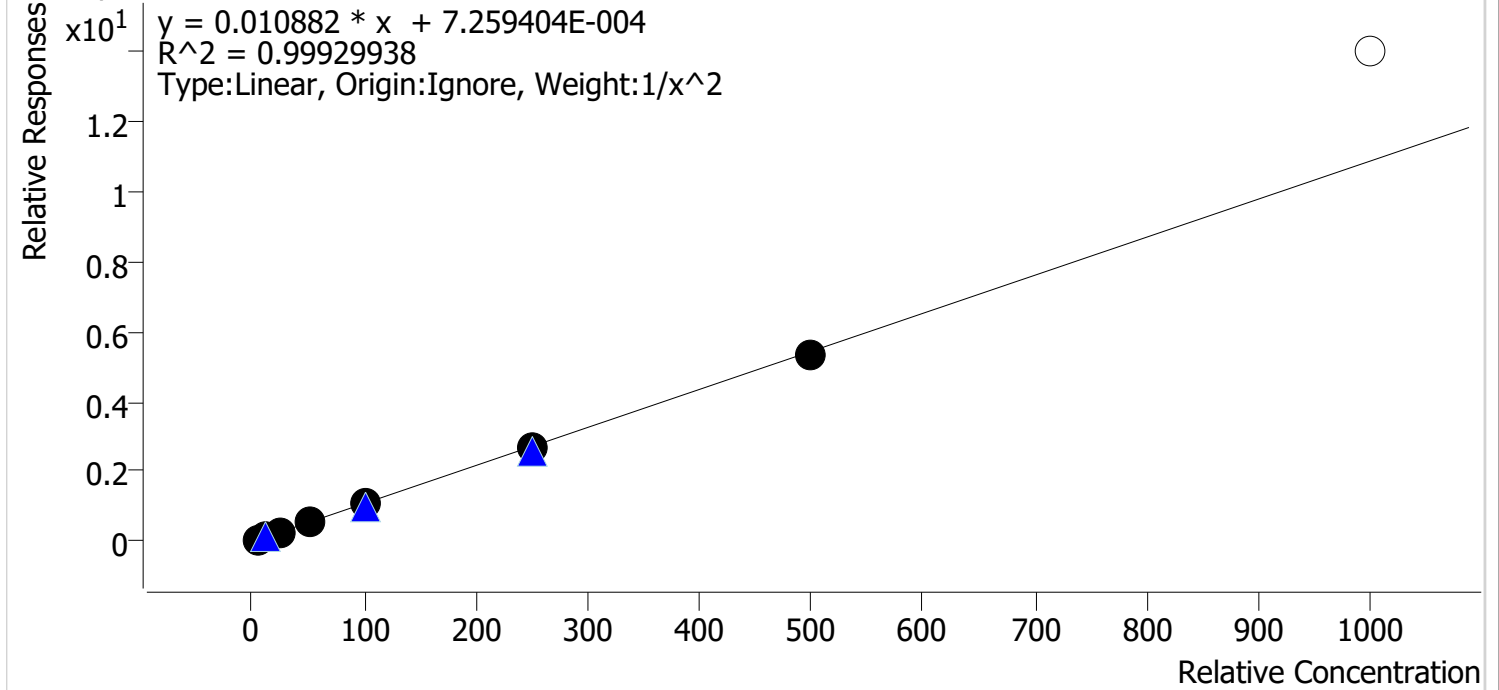
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.3
cal 2 mdq	2	✓	10.0	10.2	101.9
cal 3 mdq	3	✓	25.0	26.3	105.1
cal 4 mdq	4	✓	50.0	52.3	104.6
cal 5 mdq	5	✓	100.0	106.4	106.4
cal 6 mdq	6	✓	250.0	258.7	103.5
cal 7 mdq	7	✓	500.0	489.3	97.9
cal 8 mdq	8	✓	1000.0	833.5	83.3



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Oxazepam-D5

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

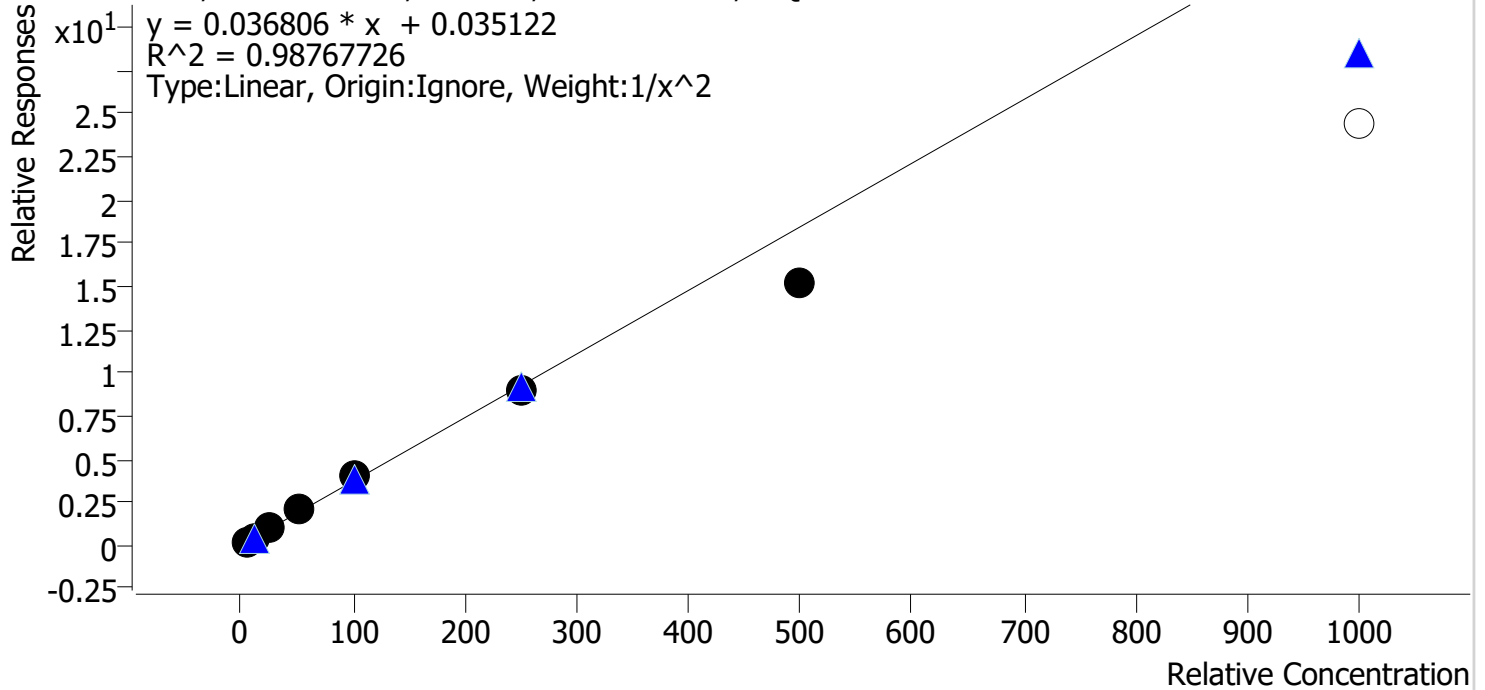


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.0
cal 2 mdq	2	✓	10.0	10.3	102.9
cal 3 mdq	3	✓	25.0	25.6	102.6
cal 4 mdq	4	✓	50.0	50.7	101.4
cal 5 mdq	5	✓	100.0	98.5	98.5
cal 6 mdq	6	✓	250.0	244.4	97.7
cal 7 mdq	7	✓	500.0	494.1	98.8
cal 8 mdq	8	✗	1000.0	1287.8	128.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** MDA **Internal Standard** MDA-D5

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

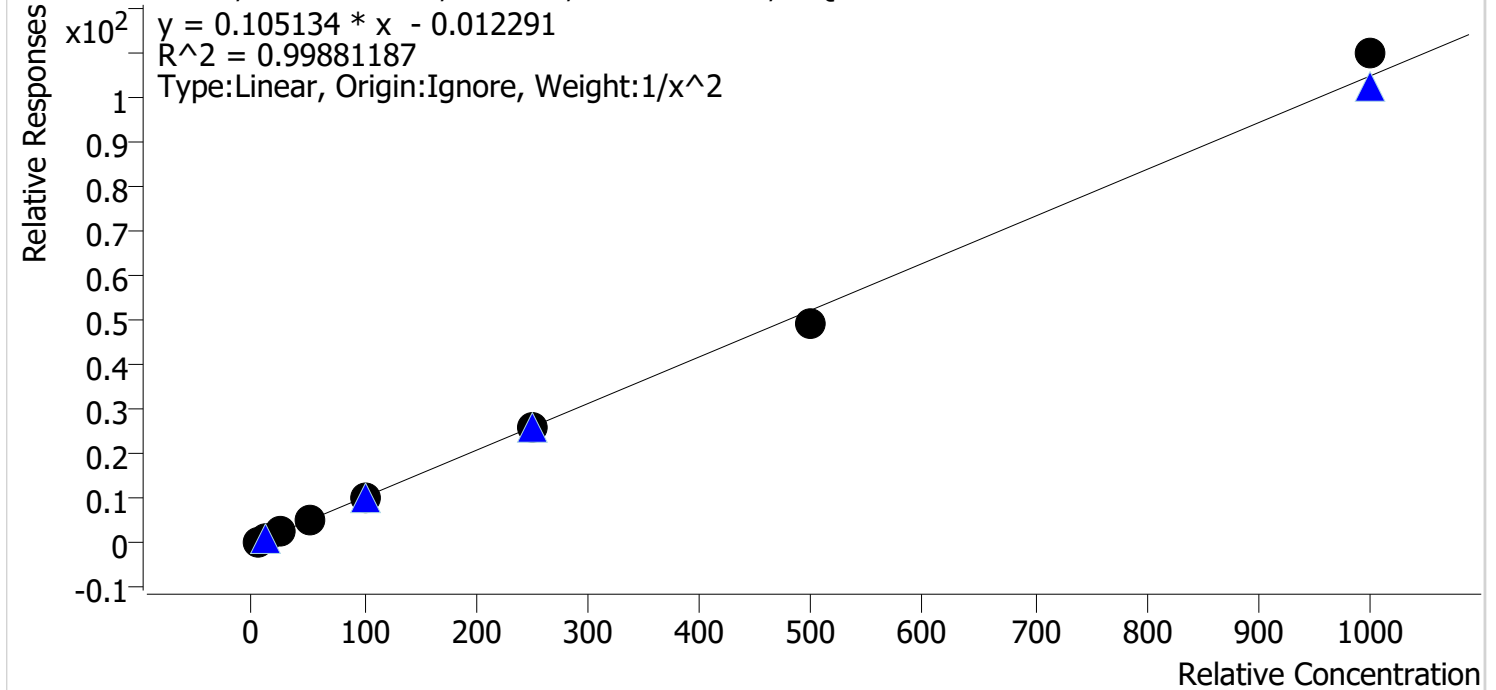


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.0
cal 2 mdq	2	✓	10.0	10.2	101.7
cal 3 mdq	3	✓	25.0	26.1	104.3
cal 4 mdq	4	✓	50.0	55.9	111.8
cal 5 mdq	5	✓	100.0	106.7	106.7
cal 6 mdq	6	✓	250.0	240.1	96.0
cal 7 mdq	7	✓	500.0	412.5	82.5
cal 8 mdq	8	✗	1000.0	662.6	66.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** MDMA **Internal Standard** MDMA-D6

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



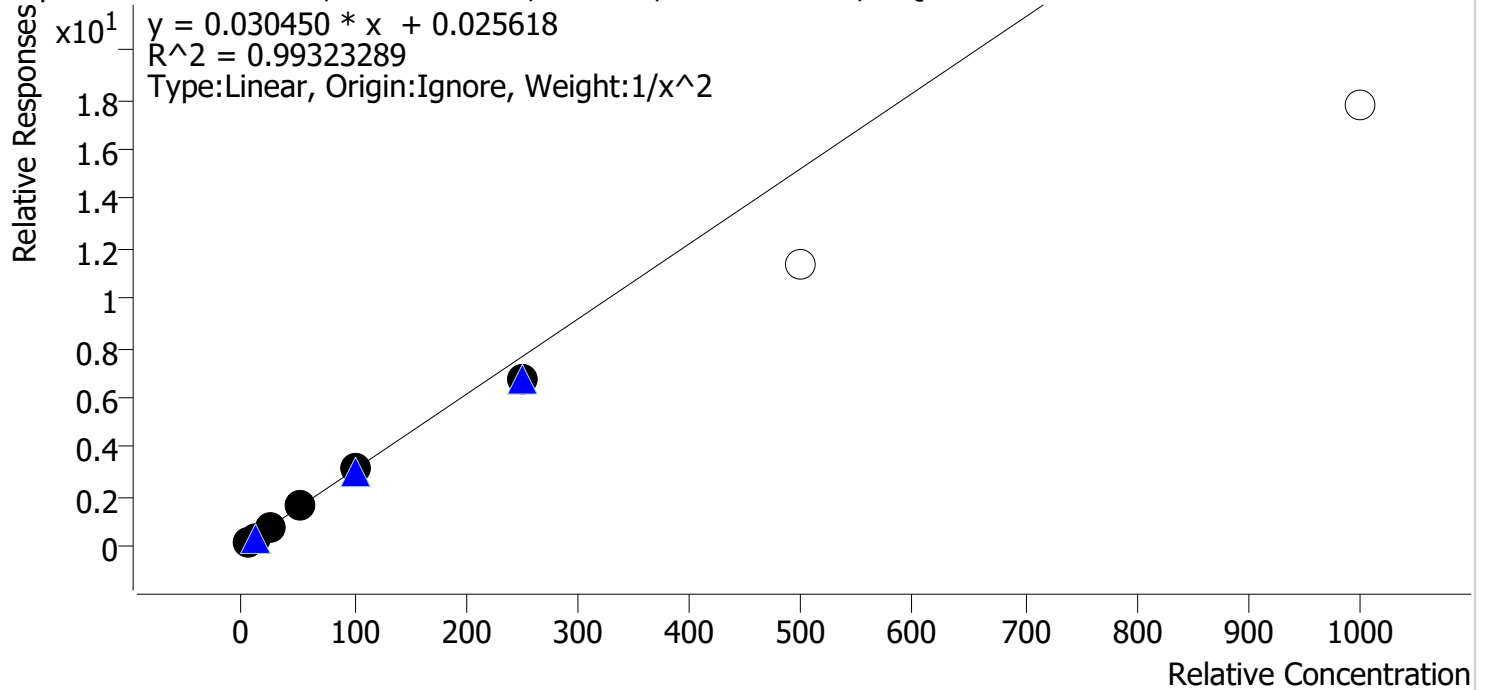
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.5
cal 2 mdq	2	✓	10.0	10.1	101.2
cal 3 mdq	3	✓	25.0	25.1	100.4
cal 4 mdq	4	✓	50.0	48.8	97.6
cal 5 mdq	5	✓	100.0	101.9	101.9
cal 6 mdq	6	✓	250.0	250.1	100.0
cal 7 mdq	7	✓	500.0	473.3	94.7
cal 8 mdq	8	✓	1000.0	1047.8	104.8



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.2
cal 2 mdq	2	✓	10.0	10.1	101.3
cal 3 mdq	3	✓	25.0	25.6	102.5
cal 4 mdq	4	✓	50.0	54.0	108.0
cal 5 mdq	5	✓	100.0	102.2	102.2
cal 6 mdq	6	✓	250.0	219.7	87.9
cal 7 mdq	7	✗	500.0	373.3	74.7
cal 8 mdq	8	✗	1000.0	585.3	58.5



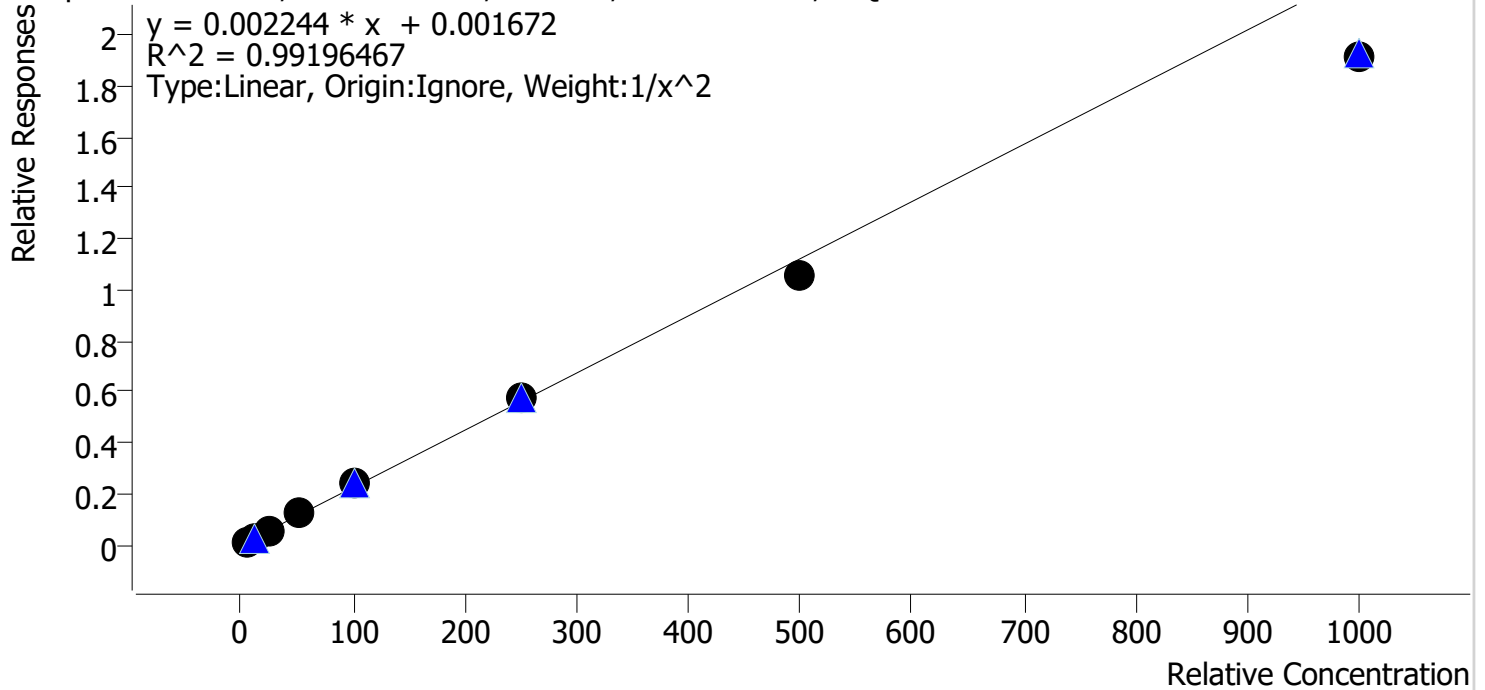


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol

**Internal Standard** Pseudoephedrine-D3

Metoprolol - 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	96.0
cal 2 mdq	2	✓	10.0	10.6	105.7
cal 3 mdq	3	✓	25.0	25.1	100.4
cal 4 mdq	4	✓	50.0	53.4	106.9
cal 5 mdq	5	✓	100.0	108.7	108.7
cal 6 mdq	6	✓	250.0	256.1	102.4
cal 7 mdq	7	✓	500.0	473.8	94.8
cal 8 mdq	8	✓	1000.0	850.8	85.1

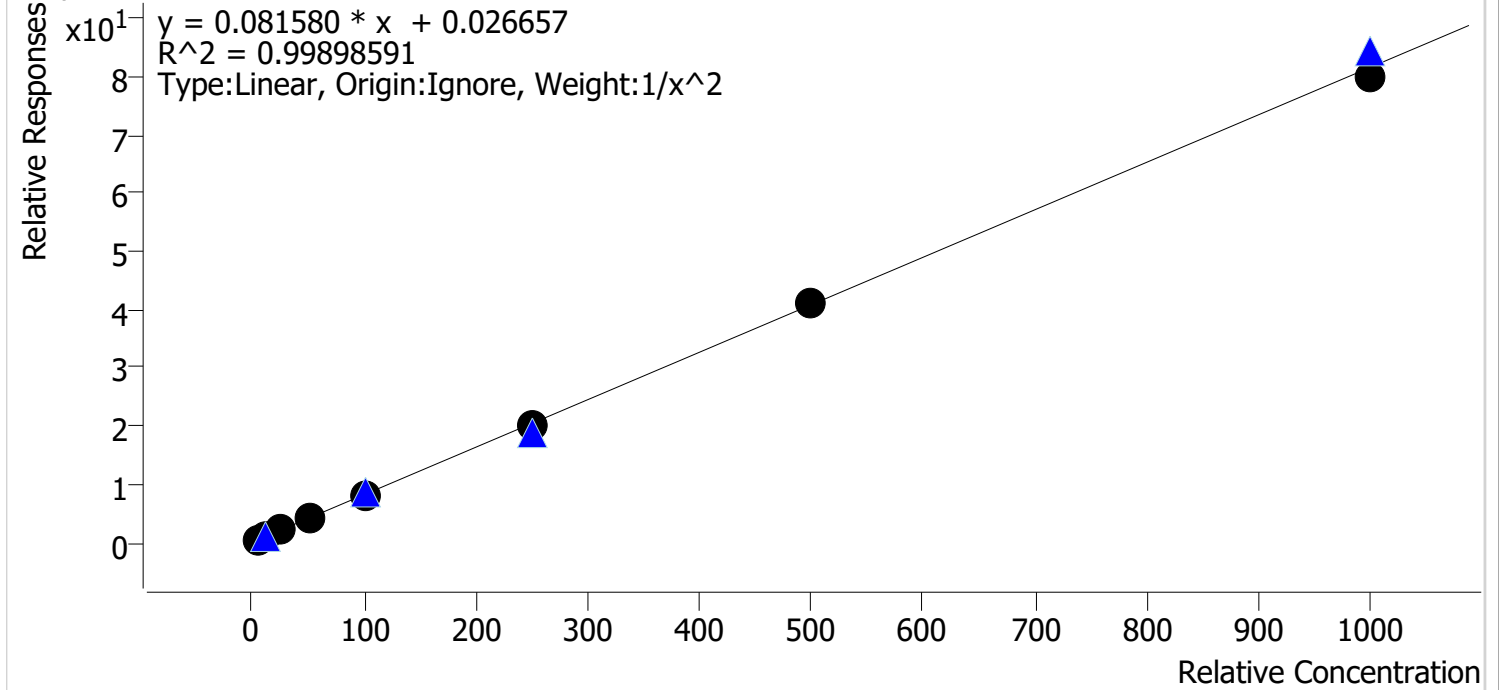




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

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

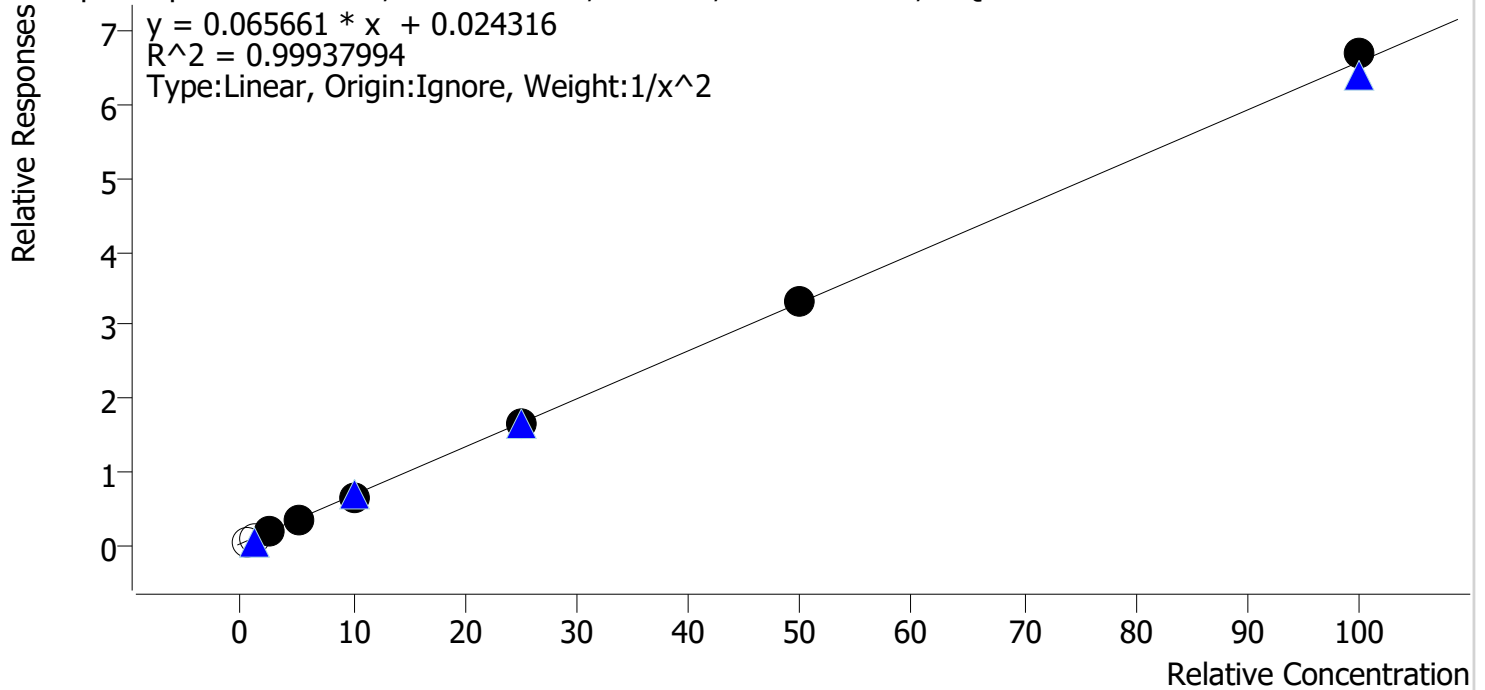


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.7
cal 2 mdq	2	✓	10.0	9.8	98.2
cal 3 mdq	3	✓	25.0	24.6	98.2
cal 4 mdq	4	✓	50.0	53.1	106.2
cal 5 mdq	5	✓	100.0	99.0	99.0
cal 6 mdq	6	✓	250.0	246.2	98.5
cal 7 mdq	7	✓	500.0	505.0	101.0
cal 8 mdq	8	✓	1000.0	981.5	98.1

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Norbuprenorphine	<b>Internal Standard</b>	Norbuprenorphine-D3

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



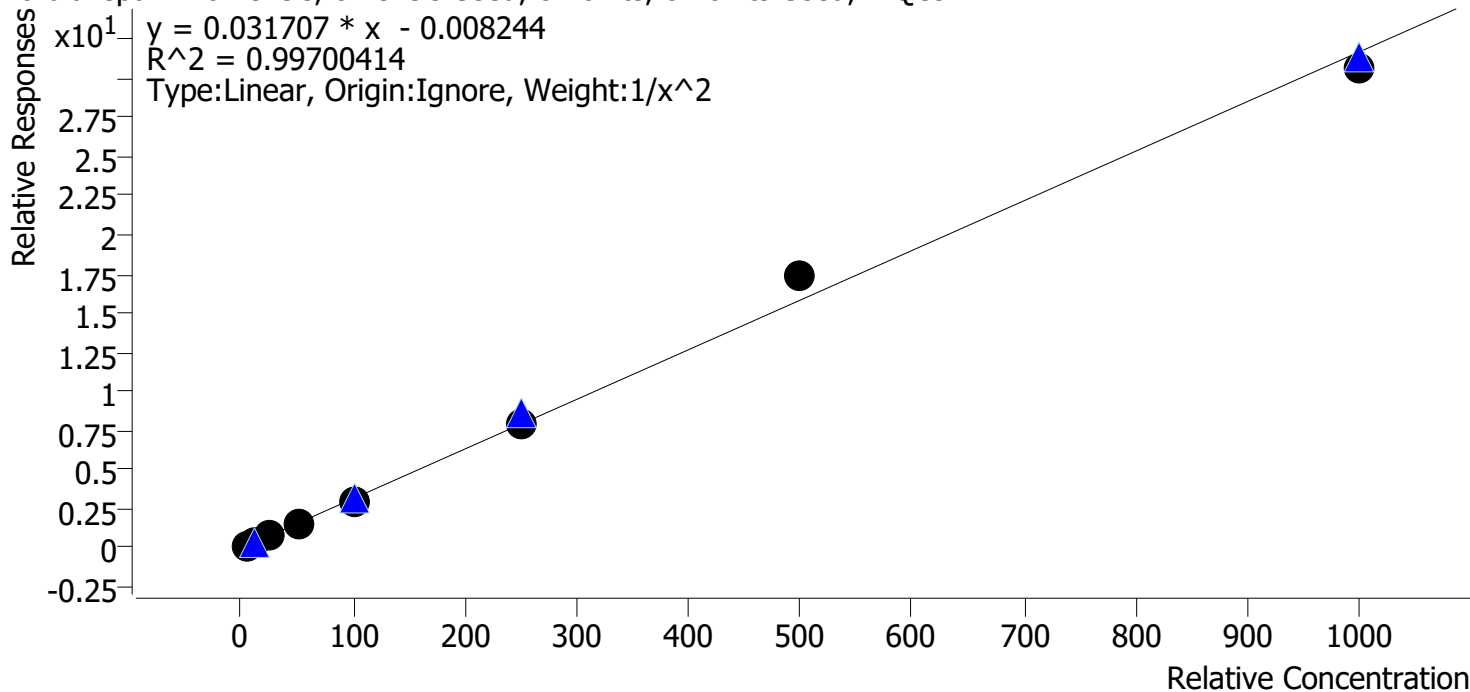
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	0.5	0.3	64.5
cal 2 mdq	2	x	1.0	0.9	94.5
cal 3 mdq	3	✓	2.5	2.5	101.5
cal 4 mdq	4	✓	5.0	4.9	98.3
cal 5 mdq	5	✓	10.0	9.7	96.8
cal 6 mdq	6	✓	25.0	25.1	100.5
cal 7 mdq	7	✓	50.0	50.6	101.1
cal 8 mdq	8	✓	100.0	101.7	101.7



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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

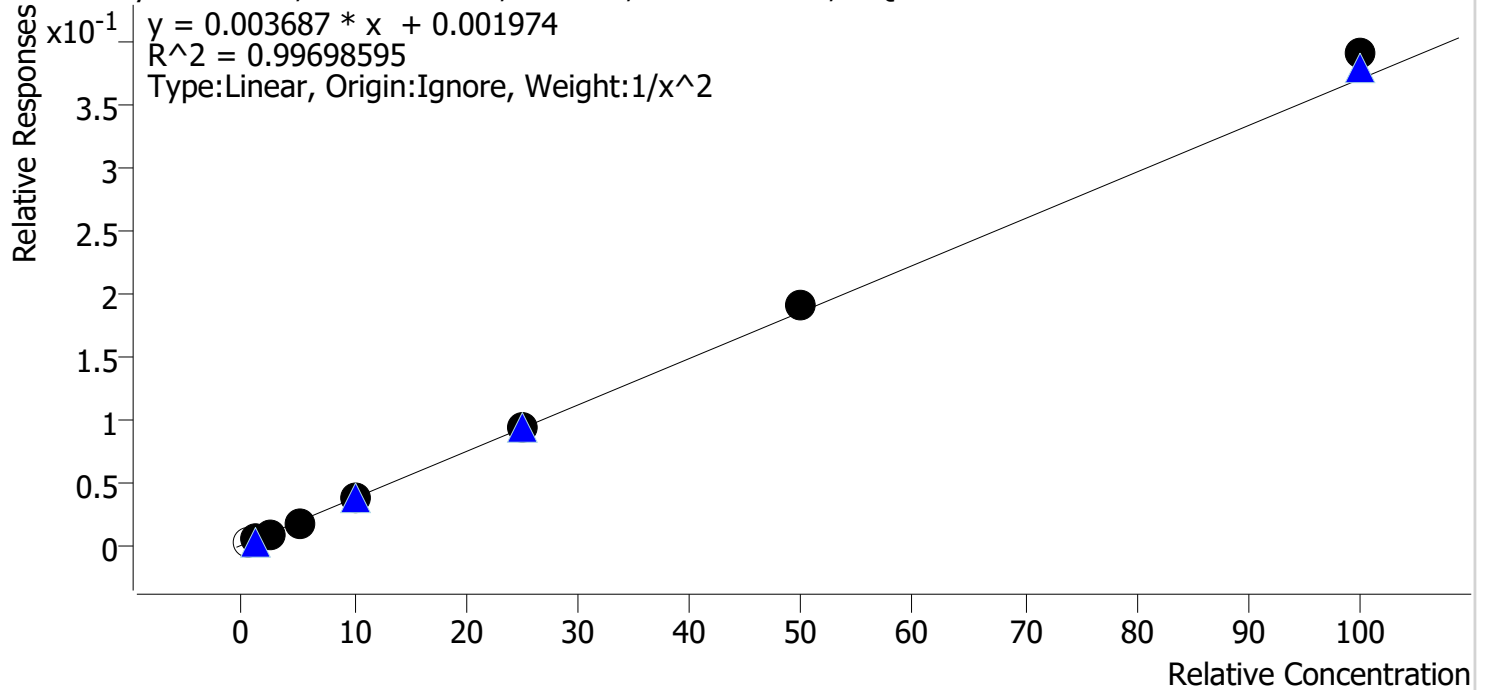


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.8
cal 2 mdq	2	✓	10.0	9.7	96.7
cal 3 mdq	3	✓	25.0	25.2	100.9
cal 4 mdq	4	✓	50.0	49.3	98.7
cal 5 mdq	5	✓	100.0	95.2	95.2
cal 6 mdq	6	✓	250.0	248.8	99.5
cal 7 mdq	7	✓	500.0	552.0	110.4
cal 8 mdq	8	✓	1000.0	968.4	96.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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

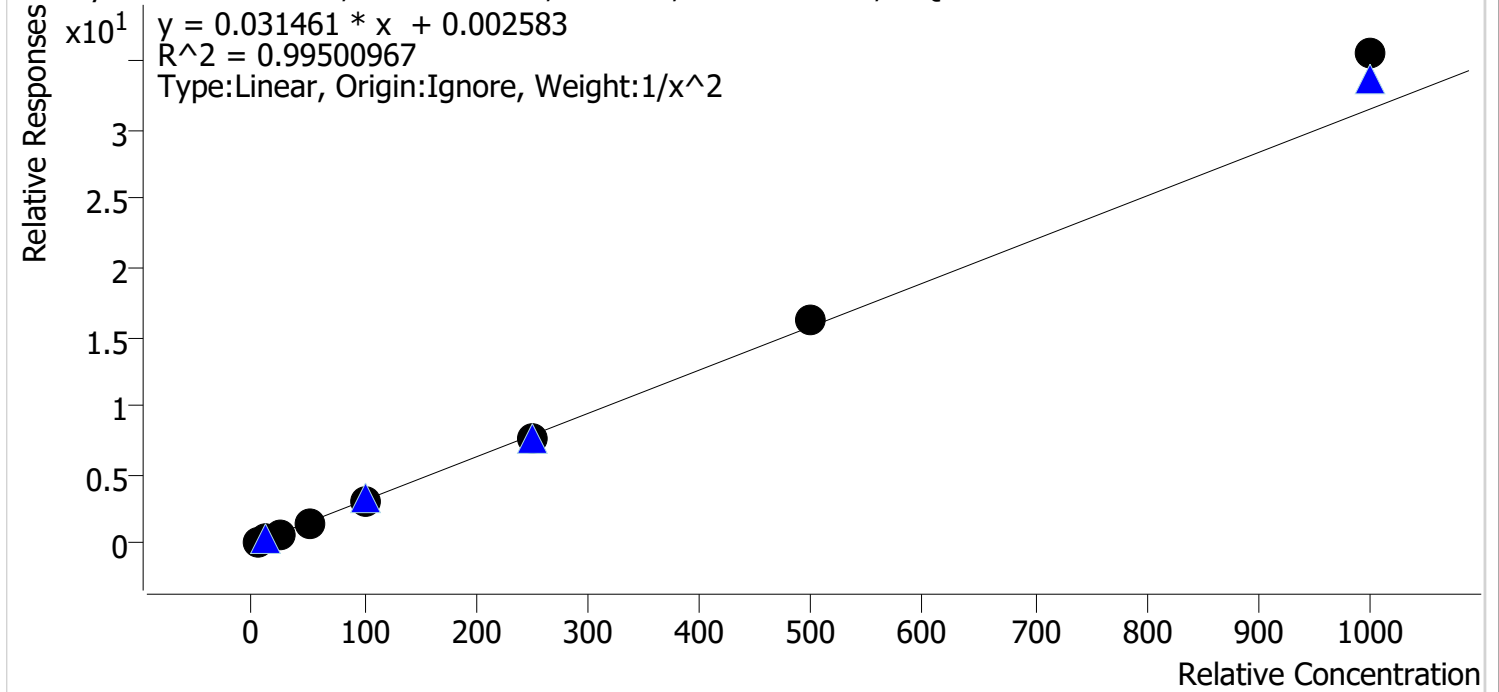


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	0.5	0.9	182.3
cal 2 mdq	2	✓	1.0	1.0	103.2
cal 3 mdq	3	✓	2.5	2.4	95.7
cal 4 mdq	4	✓	5.0	4.6	92.4
cal 5 mdq	5	✓	10.0	9.8	98.1
cal 6 mdq	6	✓	25.0	25.5	102.0
cal 7 mdq	7	✓	50.0	51.5	103.1
cal 8 mdq	8	✓	100.0	105.4	105.4

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Noroxycodone	<b>Internal Standard</b>	Noroxycodone-D3

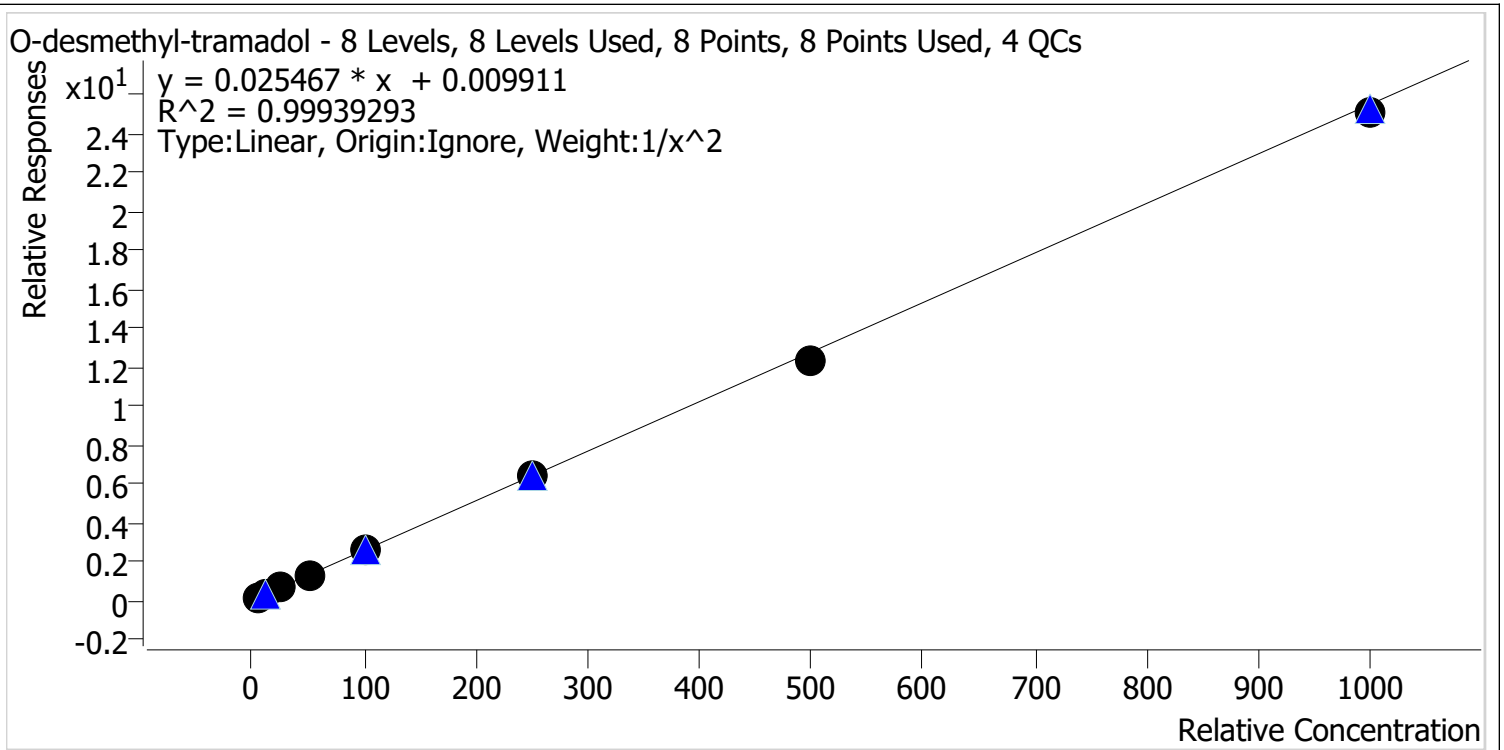
Noroxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	103.0
cal 2 mdq	2	✓	10.0	9.6	96.3
cal 3 mdq	3	✓	25.0	24.5	97.9
cal 4 mdq	4	✓	50.0	47.6	95.2
cal 5 mdq	5	✓	100.0	94.9	94.9
cal 6 mdq	6	✓	250.0	240.9	96.3
cal 7 mdq	7	✓	500.0	518.0	103.6
cal 8 mdq	8	✓	1000.0	1127.5	112.7

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	O-desmethyl-tramadol	<b>Internal Standard</b>	O-desmethyl-tramadol-D6



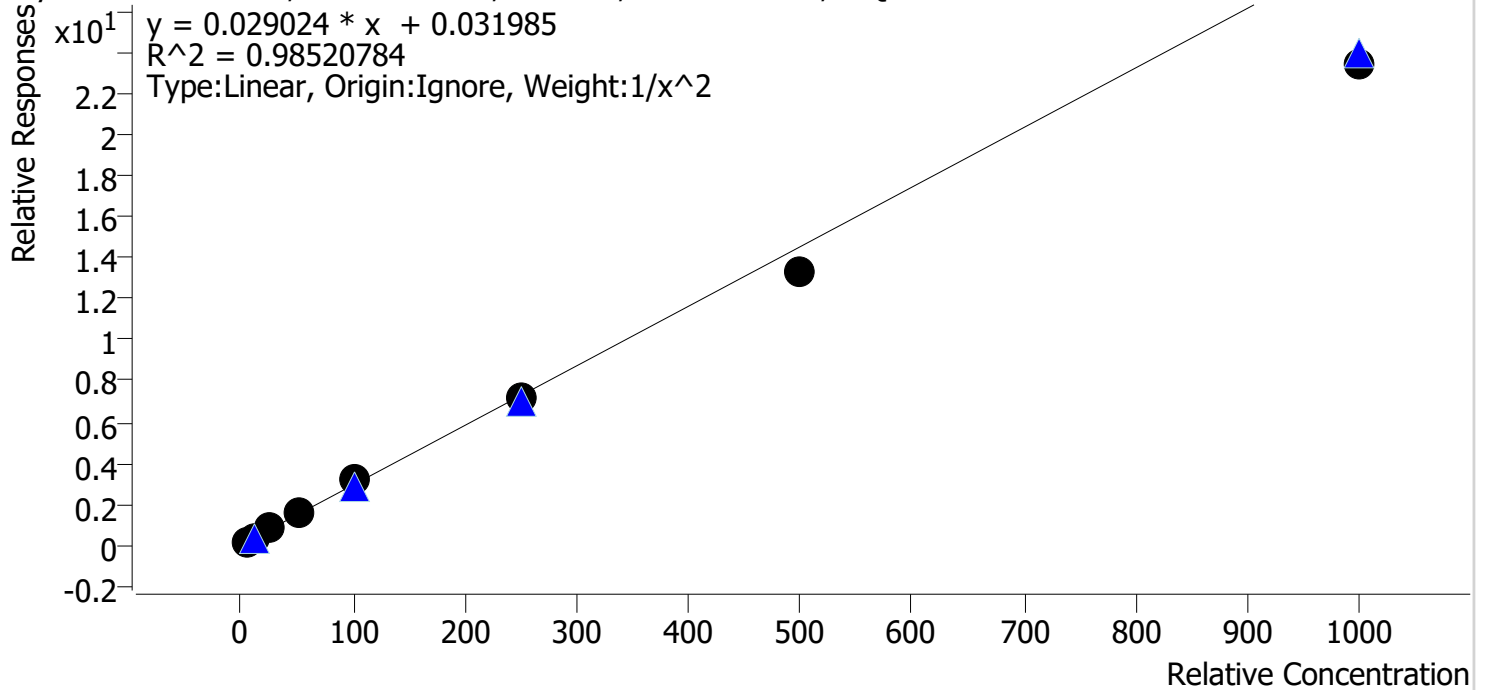
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.7
cal 2 mdq	2	✓	10.0	10.1	101.0
cal 3 mdq	3	✓	25.0	25.8	103.1
cal 4 mdq	4	✓	50.0	51.2	102.5
cal 5 mdq	5	✓	100.0	100.6	100.6
cal 6 mdq	6	✓	250.0	247.2	98.9
cal 7 mdq	7	✓	500.0	486.0	97.2
cal 8 mdq	8	✓	1000.0	980.4	98.0



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

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

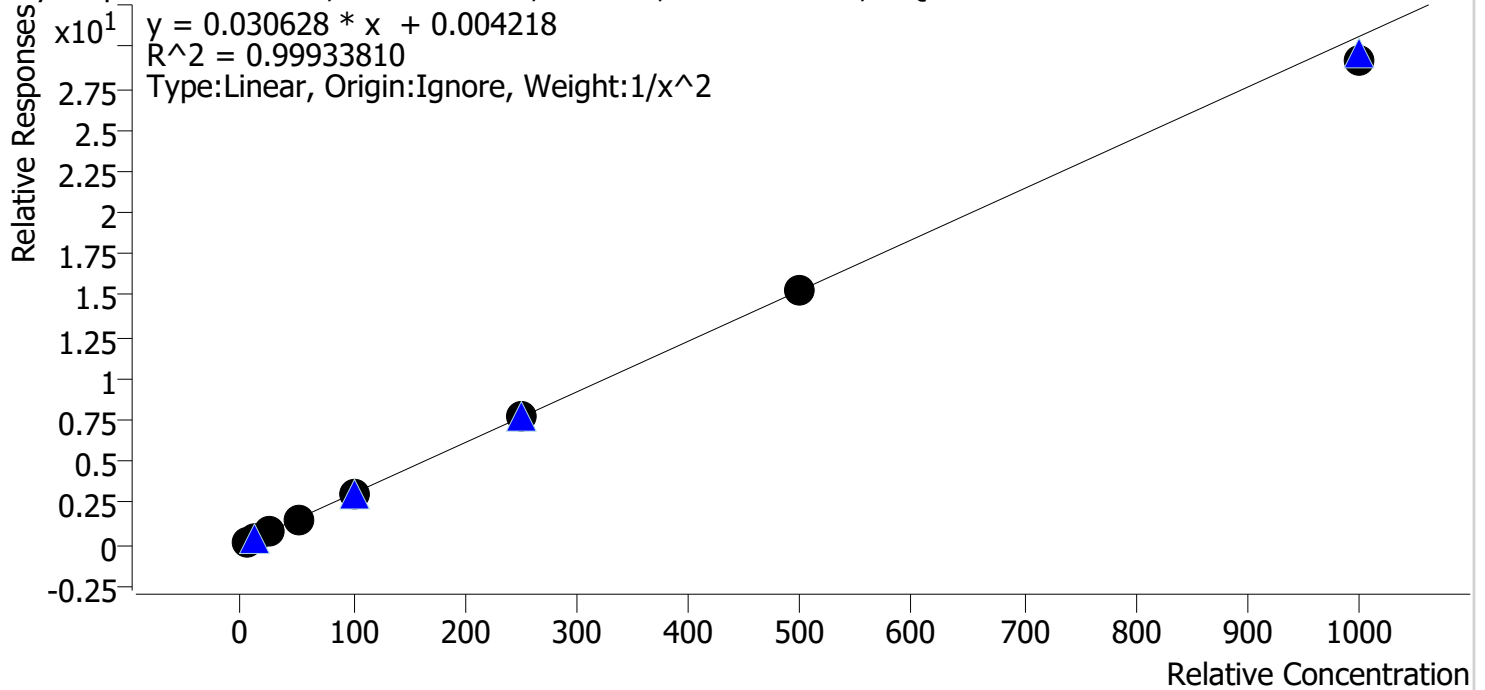


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	94.0
cal 2 mdq	2	✓	10.0	10.6	105.6
cal 3 mdq	3	✓	25.0	27.3	109.3
cal 4 mdq	4	✓	50.0	56.0	111.9
cal 5 mdq	5	✓	100.0	107.5	107.5
cal 6 mdq	6	✓	250.0	247.6	99.0
cal 7 mdq	7	✓	500.0	459.5	91.9
cal 8 mdq	8	✓	1000.0	807.3	80.7

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**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	100.0
cal 2 mdq	2	✓	10.0	9.9	98.9
cal 3 mdq	3	✓	25.0	25.3	101.4
cal 4 mdq	4	✓	50.0	50.8	101.5
cal 5 mdq	5	✓	100.0	101.7	101.7
cal 6 mdq	6	✓	250.0	253.5	101.4
cal 7 mdq	7	✓	500.0	500.0	100.0
cal 8 mdq	8	✓	1000.0	950.5	95.1

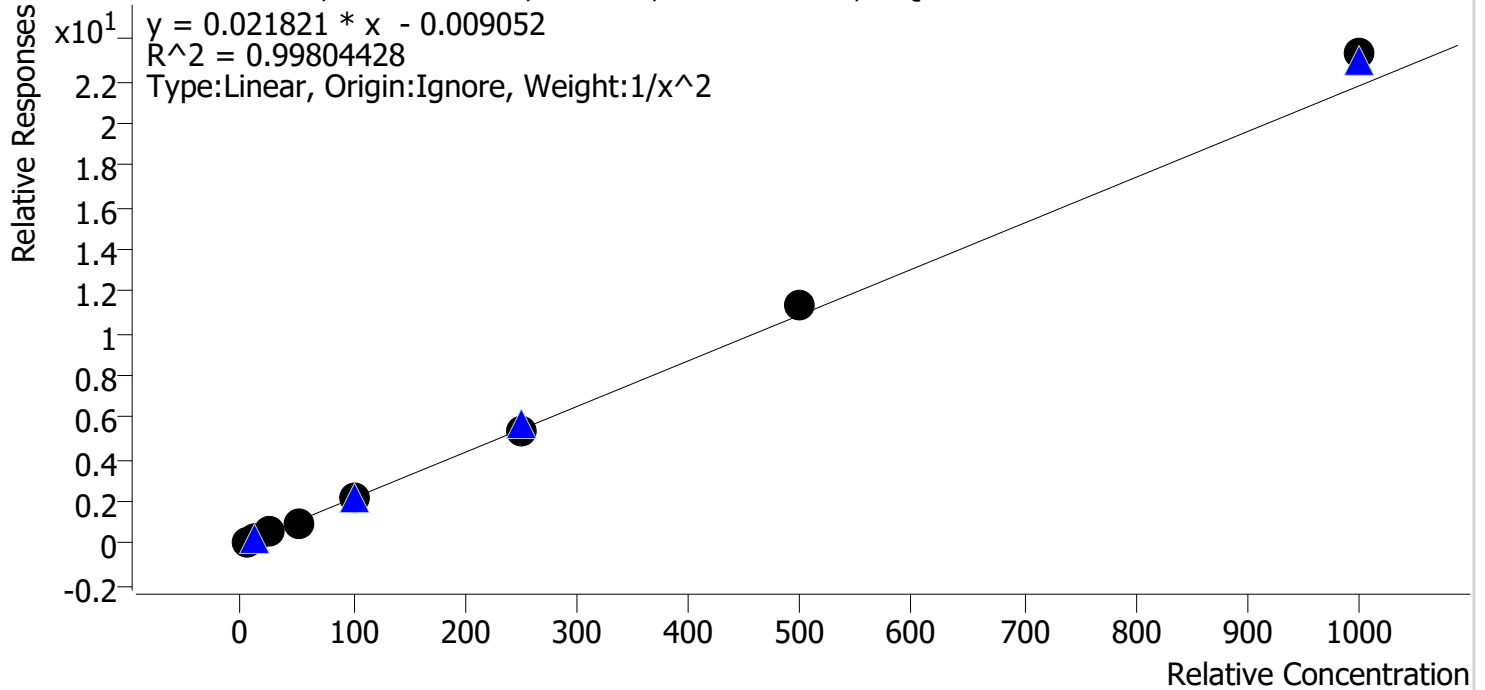




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

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

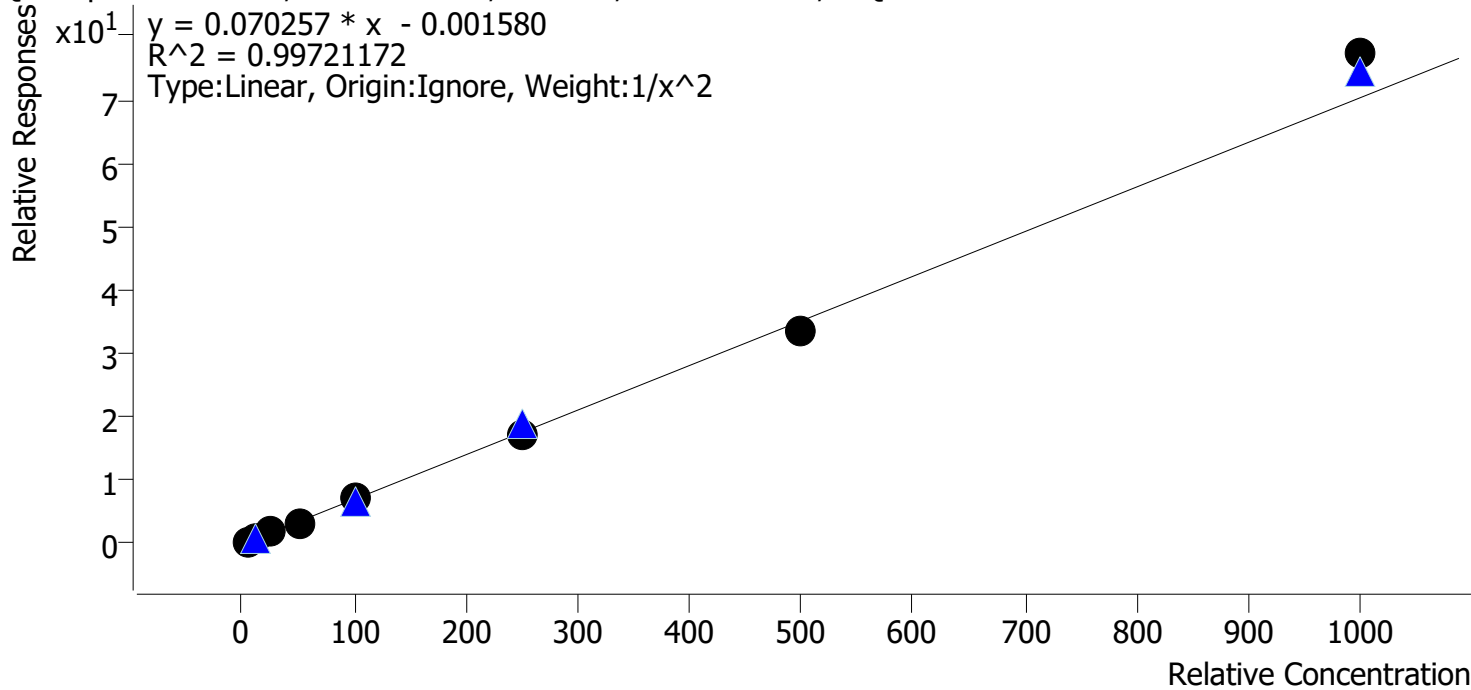


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.8
cal 2 mdq	2	✓	10.0	9.8	98.3
cal 3 mdq	3	✓	25.0	24.4	97.6
cal 4 mdq	4	✓	50.0	48.1	96.2
cal 5 mdq	5	✓	100.0	97.0	97.0
cal 6 mdq	6	✓	250.0	245.5	98.2
cal 7 mdq	7	✓	500.0	519.4	103.9
cal 8 mdq	8	✓	1000.0	1070.3	107.0

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

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

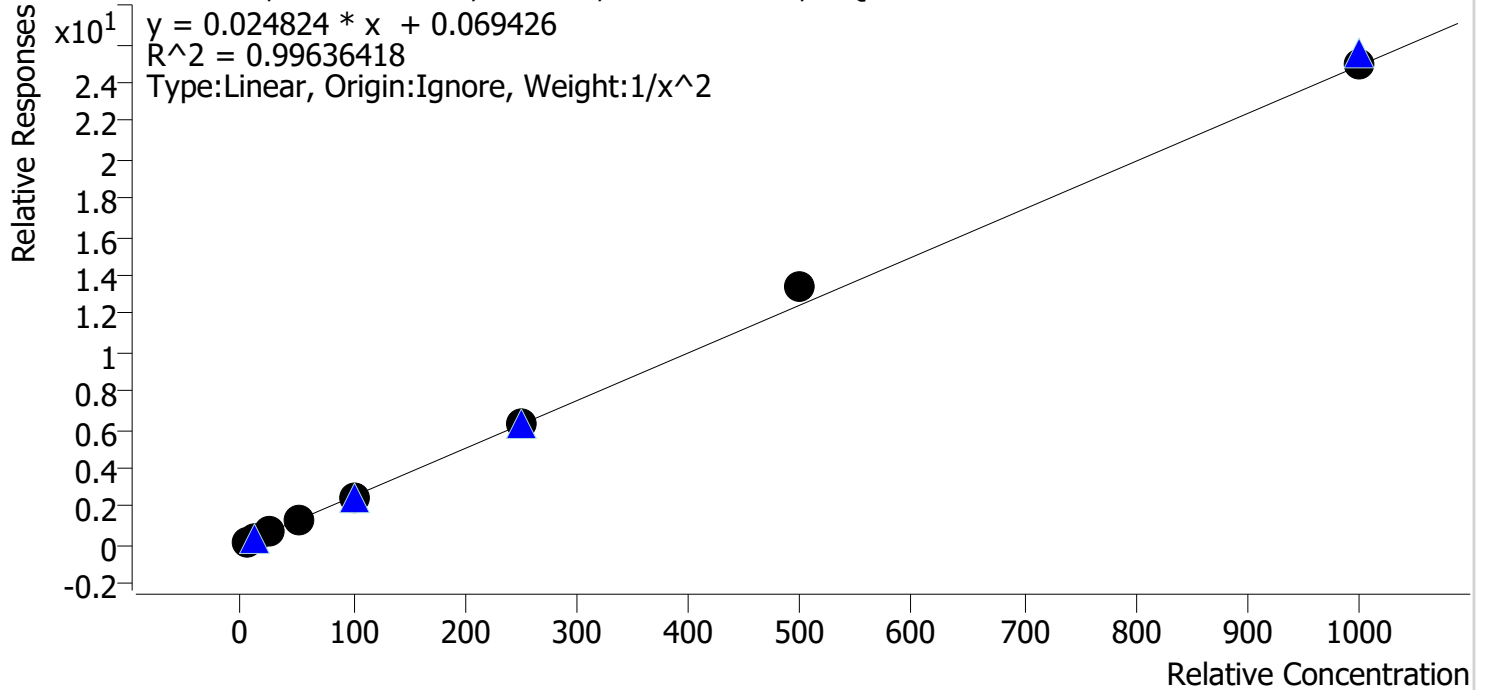


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.2
cal 2 mdq	2	✓	10.0	9.7	96.7
cal 3 mdq	3	✓	25.0	24.7	99.0
cal 4 mdq	4	✓	50.0	47.9	95.9
cal 5 mdq	5	✓	100.0	100.8	100.8
cal 6 mdq	6	✓	250.0	248.4	99.3
cal 7 mdq	7	✓	500.0	481.0	96.2
cal 8 mdq	8	✓	1000.0	1099.0	109.9

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



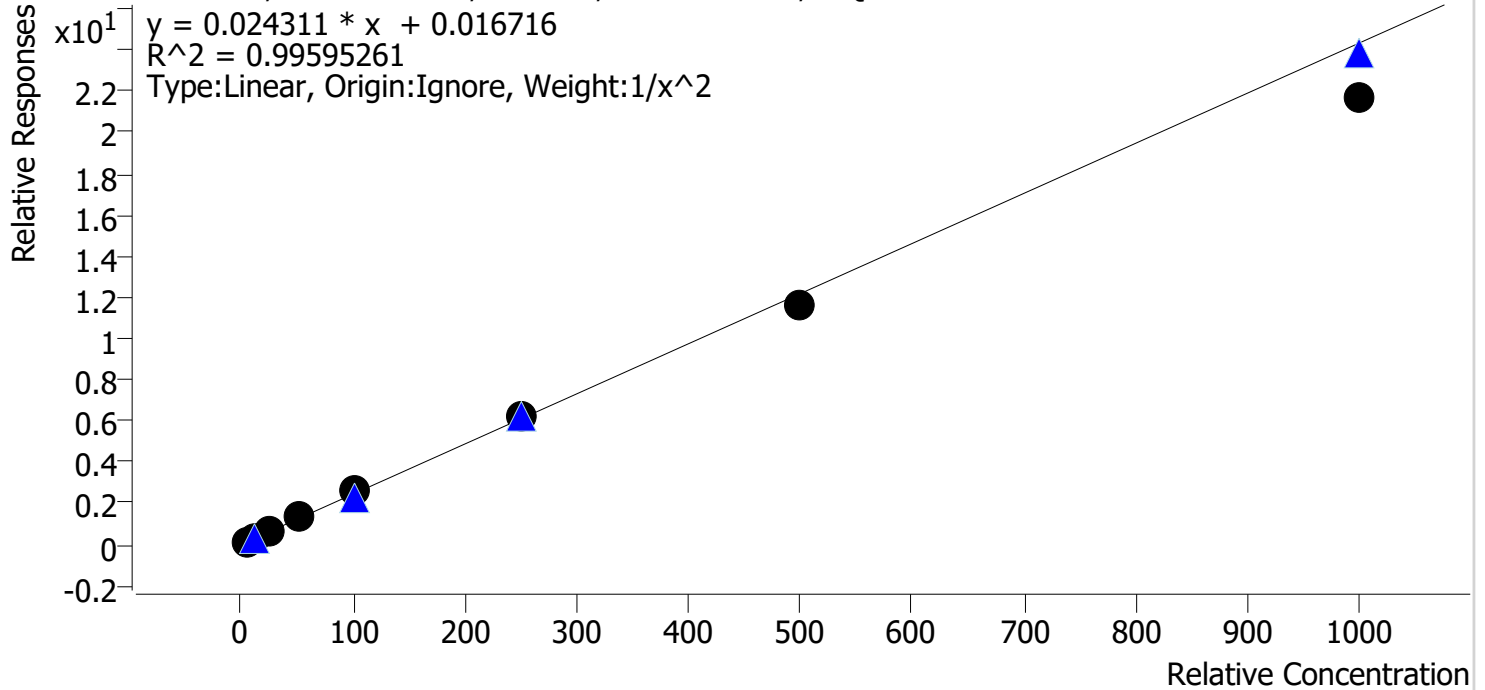
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.3	105.0
cal 2 mdq	2	✓	10.0	9.2	91.8
cal 3 mdq	3	✓	25.0	23.8	95.0
cal 4 mdq	4	✓	50.0	50.4	100.7
cal 5 mdq	5	✓	100.0	97.5	97.5
cal 6 mdq	6	✓	250.0	253.5	101.4
cal 7 mdq	7	✓	500.0	540.5	108.1
cal 8 mdq	8	✓	1000.0	1004.9	100.5



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3

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

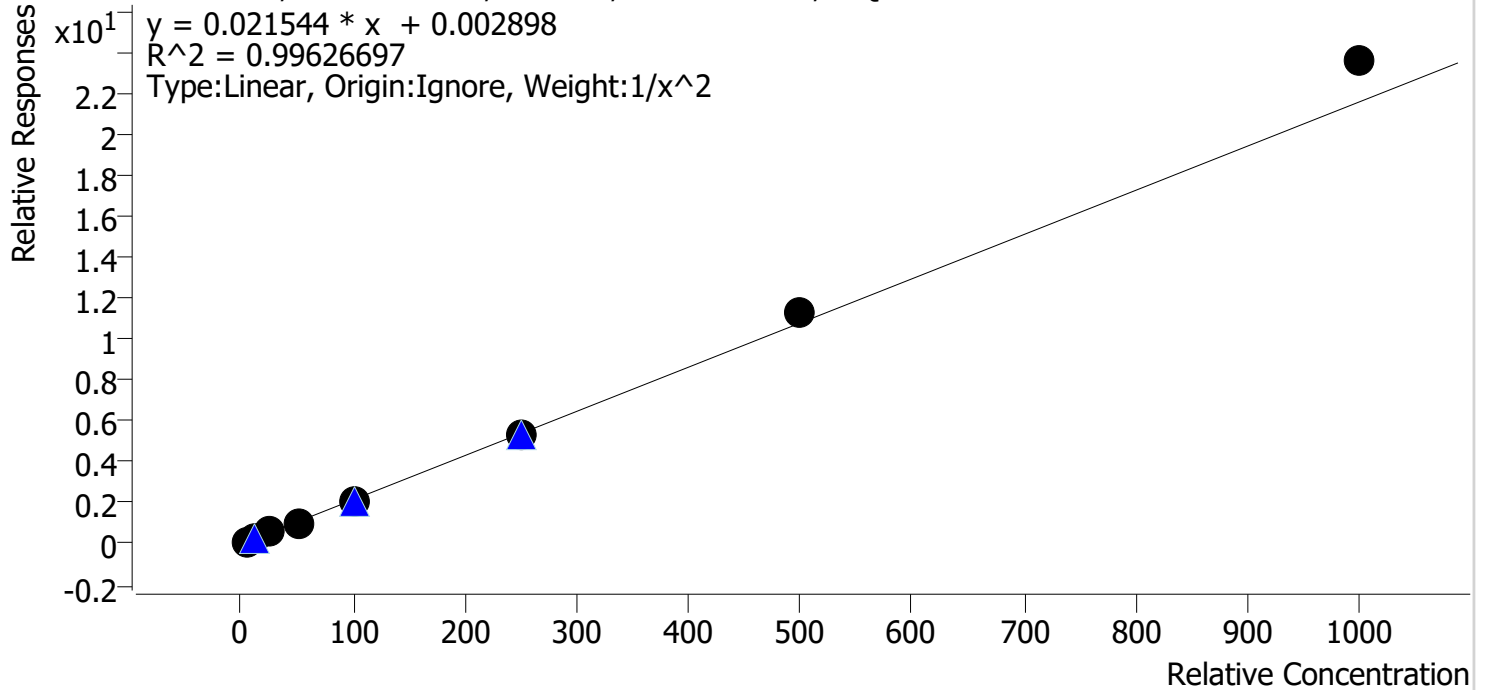


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.3
cal 2 mdq	2	✓	10.0	10.1	100.6
cal 3 mdq	3	✓	25.0	25.8	103.3
cal 4 mdq	4	✓	50.0	52.3	104.6
cal 5 mdq	5	✓	100.0	105.6	105.6
cal 6 mdq	6	✓	250.0	257.6	103.0
cal 7 mdq	7	✓	500.0	476.3	95.3
cal 8 mdq	8	✓	1000.0	892.3	89.2

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

Trazodone - 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	101.4
cal 2 mdq	2	✓	10.0	9.9	99.4
cal 3 mdq	3	✓	25.0	24.9	99.4
cal 4 mdq	4	✓	50.0	46.2	92.4
cal 5 mdq	5	✓	100.0	94.8	94.8
cal 6 mdq	6	✓	250.0	247.1	98.8
cal 7 mdq	7	✓	500.0	521.4	104.3
cal 8 mdq	8	✓	1000.0	1095.0	109.5



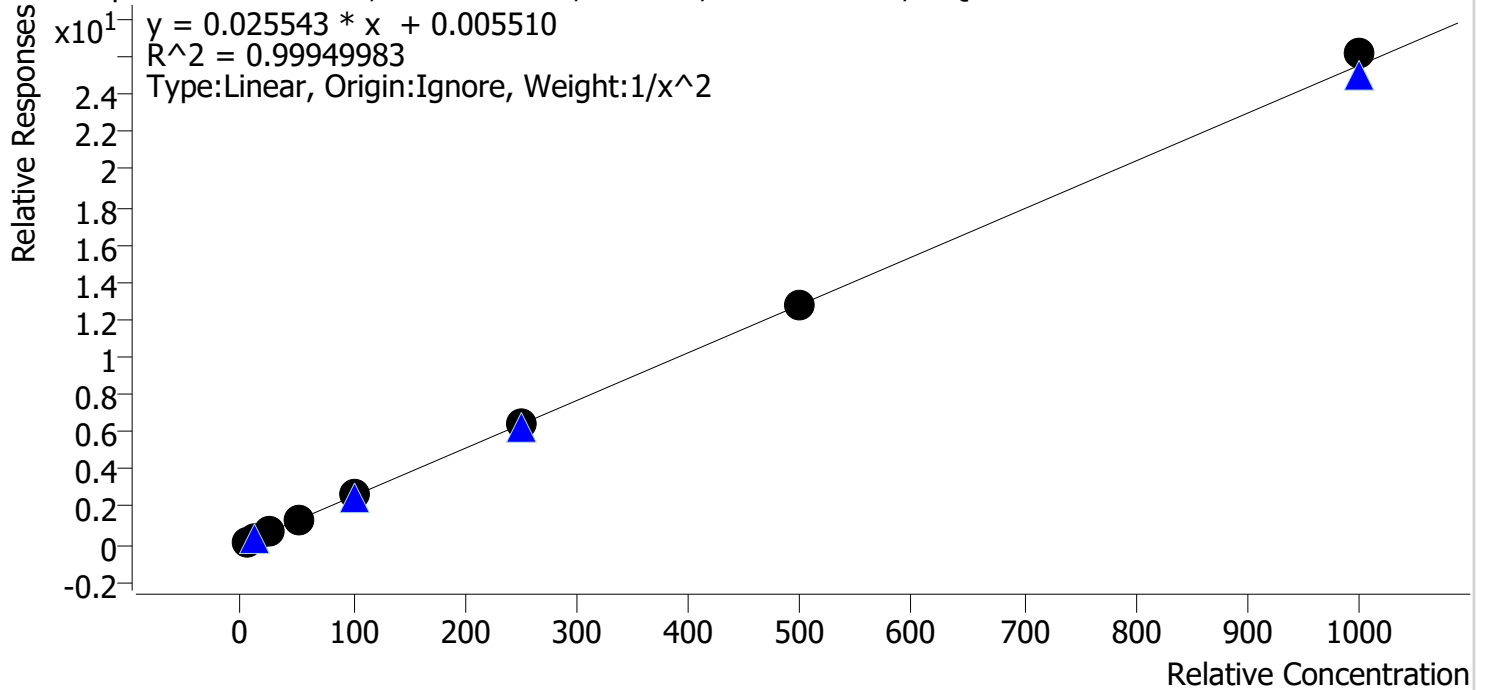




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Pseudoephedrine **Internal Standard** Pseudoephedrine-D3

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



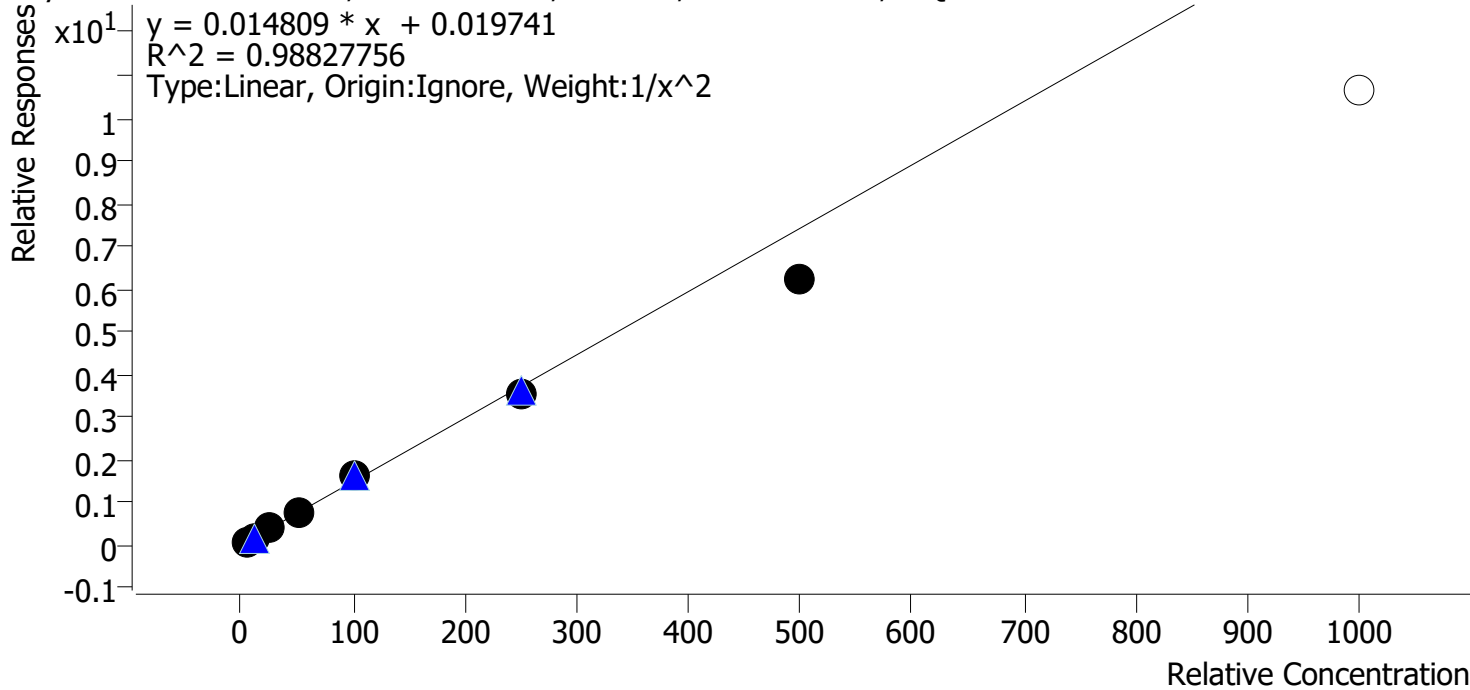
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.1
cal 2 mdq	2	✓	10.0	9.9	98.9
cal 3 mdq	3	✓	25.0	24.5	98.0
cal 4 mdq	4	✓	50.0	48.5	97.1
cal 5 mdq	5	✓	100.0	102.2	102.2
cal 6 mdq	6	✓	250.0	251.5	100.6
cal 7 mdq	7	✓	500.0	498.1	99.6
cal 8 mdq	8	✓	1000.0	1024.5	102.5



# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dihydrocodeine	<b>Internal Standard</b>	Dihydrocodeine-D6

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

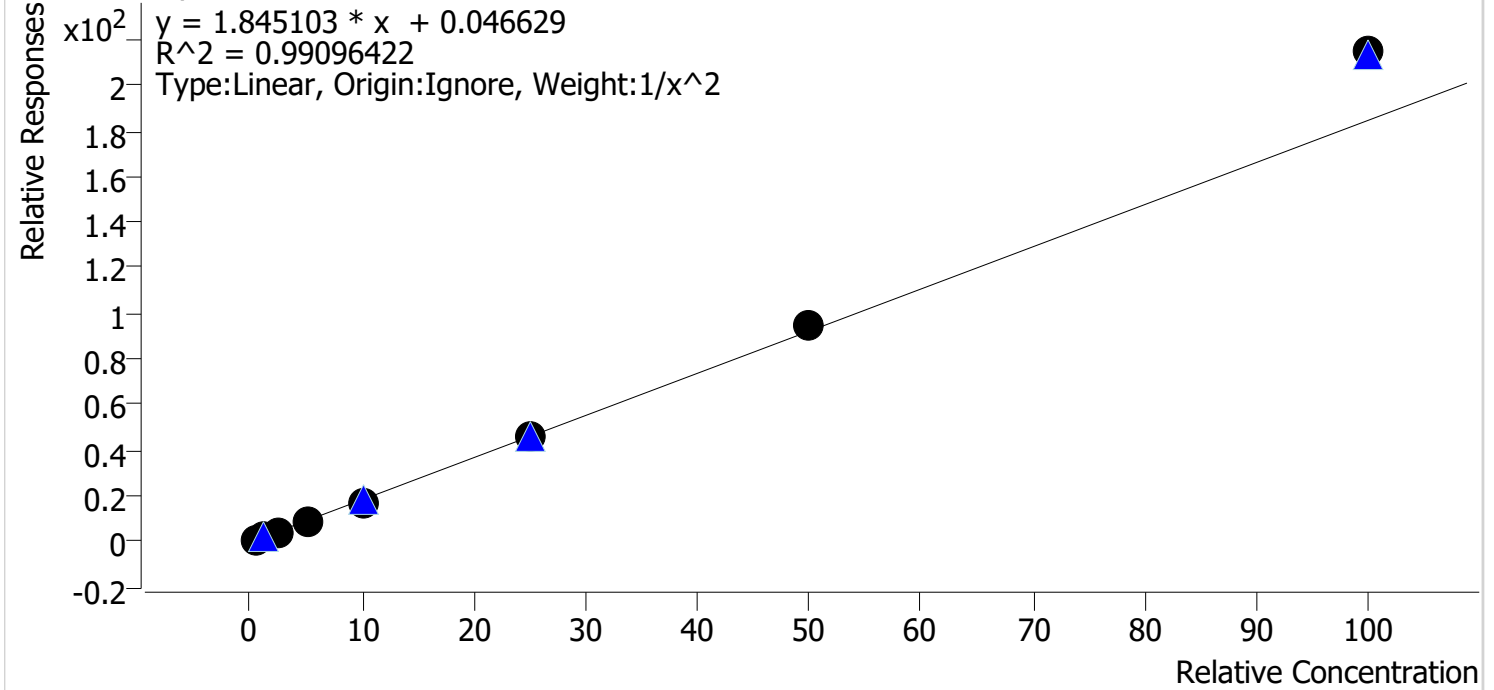


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.8
cal 2 mdq	2	✓	10.0	9.8	98.2
cal 3 mdq	3	✓	25.0	28.1	112.2
cal 4 mdq	4	✓	50.0	52.7	105.5
cal 5 mdq	5	✓	100.0	107.0	107.0
cal 6 mdq	6	✓	250.0	237.8	95.1
cal 7 mdq	7	✓	500.0	421.1	84.2
cal 8 mdq	8	✗	1000.0	719.3	71.9

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Fluorofentanyl	<b>Internal Standard</b>	Fluorofentanyl-D5

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

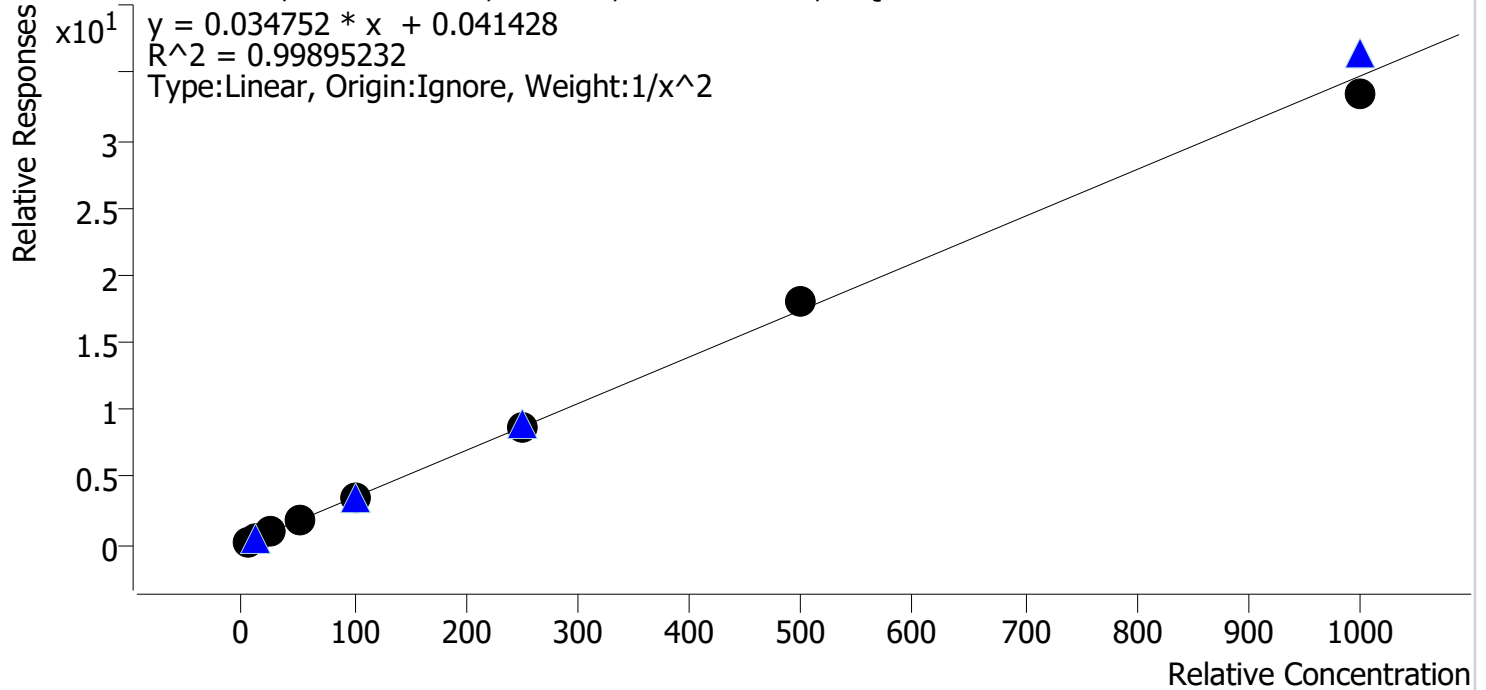


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	103.7
cal 2 mdq	2	✓	1.0	1.0	97.6
cal 3 mdq	3	✓	2.5	2.3	93.0
cal 4 mdq	4	✓	5.0	4.5	89.9
cal 5 mdq	5	✓	10.0	9.4	94.5
cal 6 mdq	6	✓	25.0	25.4	101.7
cal 7 mdq	7	✓	50.0	51.6	103.3
cal 8 mdq	8	✓	100.0	116.3	116.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Duloxetine **Internal Standard** Duloxetine-d3

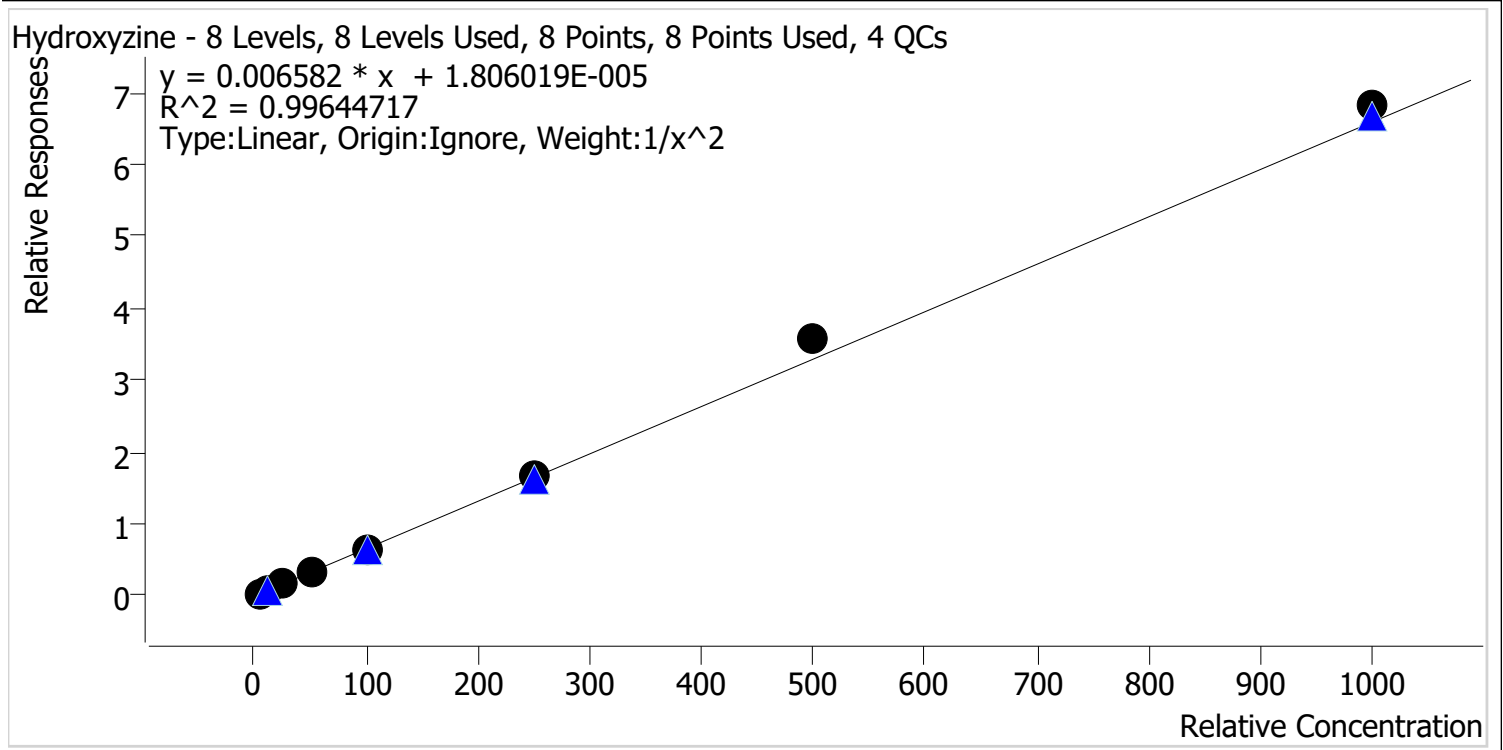
Duloxetine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.8
cal 2 mdq	2	✓	10.0	9.7	96.9
cal 3 mdq	3	✓	25.0	24.4	97.5
cal 4 mdq	4	✓	50.0	50.7	101.3
cal 5 mdq	5	✓	100.0	102.3	102.3
cal 6 mdq	6	✓	250.0	249.8	99.9
cal 7 mdq	7	✓	500.0	519.8	104.0
cal 8 mdq	8	✓	1000.0	963.3	96.3

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Last Cal. Update** 6/16/2023 9:25 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydroxyzine **Internal Standard** Pseudoephedrine-D3

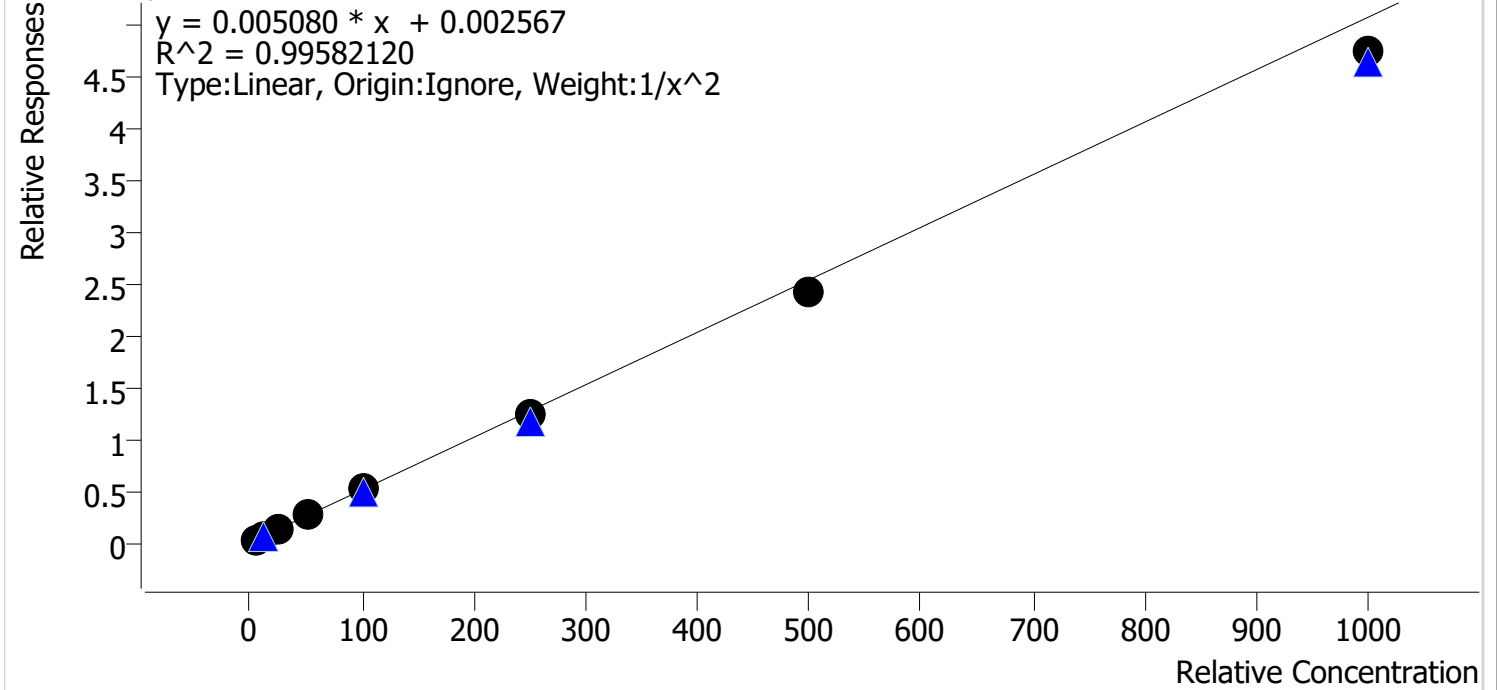


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.8
cal 2 mdq	2	✓	10.0	10.2	102.3
cal 3 mdq	3	✓	25.0	23.3	93.3
cal 4 mdq	4	✓	50.0	47.3	94.7
cal 5 mdq	5	✓	100.0	95.2	95.2
cal 6 mdq	6	✓	250.0	254.5	101.8
cal 7 mdq	7	✓	500.0	541.9	108.4
cal 8 mdq	8	✓	1000.0	1034.8	103.5

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Chlordiazepoxide	<b>Internal Standard</b>	Chlordiazepoxide-d5

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

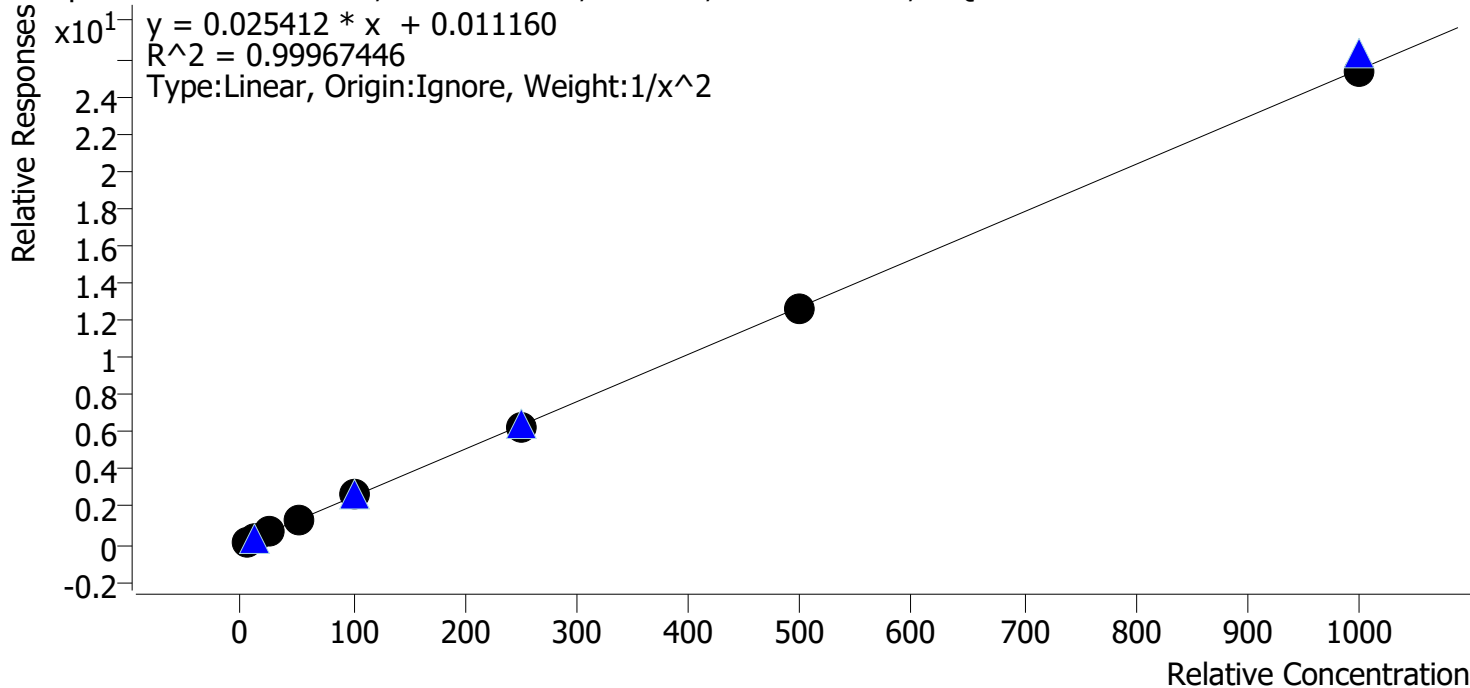


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.1
cal 2 mdq	2	✓	10.0	10.1	101.0
cal 3 mdq	3	✓	25.0	27.7	110.7
cal 4 mdq	4	✓	50.0	51.2	102.4
cal 5 mdq	5	✓	100.0	103.6	103.6
cal 6 mdq	6	✓	250.0	240.9	96.4
cal 7 mdq	7	✓	500.0	476.7	95.3
cal 8 mdq	8	✓	1000.0	934.5	93.4

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	6/16/2023 9:25 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Chlorpheniramine	<b>Internal Standard</b>	Chlorpheniramine-d6

Chlorpheniramine - 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	98.8
cal 2 mdq	2	✓	10.0	10.2	102.0
cal 3 mdq	3	✓	25.0	25.2	100.7
cal 4 mdq	4	✓	50.0	50.3	100.6
cal 5 mdq	5	✓	100.0	102.1	102.1
cal 6 mdq	6	✓	250.0	245.5	98.2
cal 7 mdq	7	✓	500.0	492.0	98.4
cal 8 mdq	8	✓	1000.0	992.2	99.2





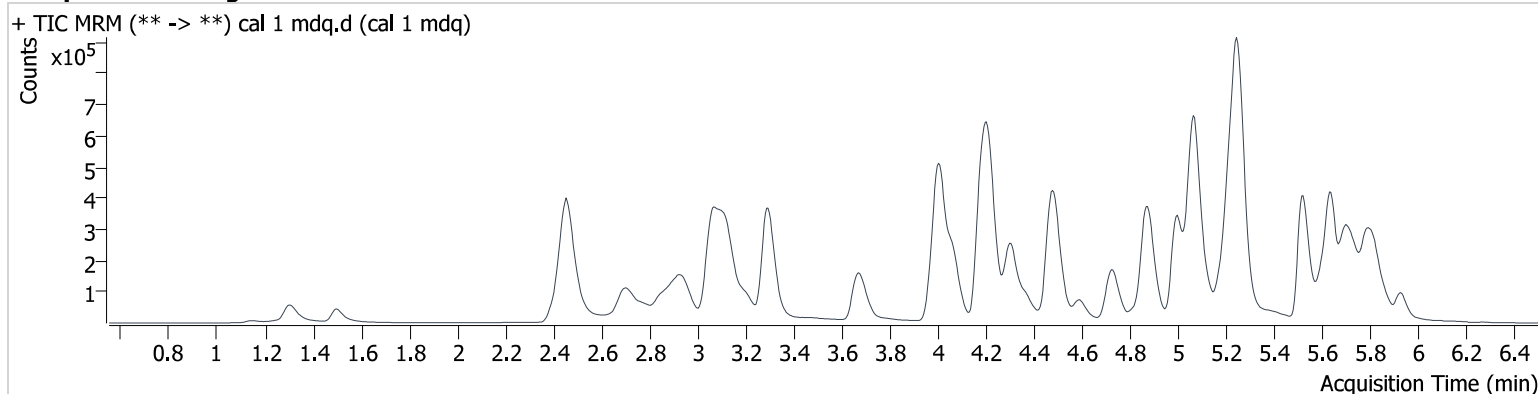
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-A1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 9:47:52 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.
6-MAM	3.057	1390	8845.3	123.64	2718.1	66475	0.495 ng/ml
7-aminoclonazepam	4.206	20220	1804.1	115.91	15035.4	198903	4.787 ng/ml
a-hydroxyalprazolam	5.666	4233	∞	61.53	∞	73627	4.877 ng/ml
alpha-PHP	4.890	25864	1839.2	260.45	9922.6	688220	4.737 ng/ml
alpha-PVP	4.311	93719	8375.5	55.42	3870.0	688220	5.067 ng/ml
Alprazolam	5.744	42673	633.3	90.13	8715.8	264218	5.067 ng/ml
Amphetamine	2.939	81365	5763.4	275.27	1663.0	345874	5.038 ng/ml
Benzoylcegonine	3.812	2595	595.0	52.25	52.7	14874	5.074 ng/ml
Buprenorphine	5.830	3747	598.8	17.65	64.6	93148	0.495 ng/ml
Bupropion	4.741	90599	7134.8	71.15	1454.6	476562	5.017 ng/ml
Carisoprodol	5.700	27708	50681.1	59.22	481.8	161508	4.963 ng/ml
Chlordiazepoxide	5.833	10920	43.1	140.59	836.1	401060	4.855 ng/ml
Chlorpheniramine	5.073	149340	30571.6	0.32	27.8	1092933	4.938 ng/ml
Citalopram	5.185	63616	2022.2	41.44	69921.2	486414	4.994 ng/ml
Clonazepam	5.577	19659	369.6	34.62	∞	73627	4.989 ng/ml
Clonazolam	5.518	23080	2170.6	39.23	1273.7	114620	4.937 ng/ml
Cocaine	4.215	69056	43881.9	50.73	2420.7	1048551	4.946 ng/ml
Codeine	2.473	9301	1498.3	90.66	6558.8	79214	4.793 ng/ml
Cyclobenzaprine	5.606	74409	20174.3	8.91	346.6	396248	4.956 ng/ml
Dextromethorphan	5.229	49990	∞	74.48	87207.5	449043	5.041 ng/ml
Dextrorphan	4.070	54904	151849.8	46.61	9125.2	519582	5.509 ng/ml
Diazepam	5.932	22692	747.5	87.72	1315.0	194695	4.980 ng/ml
Dihydrocodeine	2.442	23190	94.8	59.06	93.7	251645	4.890 ng/ml
Diphenhydramine	5.255	227135	∞	29.98	4385.8	1949640	5.287 ng/ml
Doxylamine	4.492	200303	19913.4	97.30	21356.3	1256216	4.950 ng/ml
Duloxetine	5.631	8753	244.8	10.09	30.1	40093	5.090 ng/ml
EDDP	5.223	109018	8000.3	42.04	5531.1	956494	5.072 ng/ml
Etizolam	5.790	4438	723.2	409.49	6750.5	194695	4.892 ng/ml
Fentanyl	5.062	8662	725.5	127.20	620.5	624463	0.515 ng/ml
Flualprazolam	5.676	18364	∞	97.10	395.5	114620	5.134 ng/ml
Fluorofentanyl	5.128	6646	5315.5	124.83	170.1	6623	0.519 ng/ml
Fluoxetine	5.698	58679	∞	5.42	60051.1	309496	5.086 ng/ml
Hydrocodone	2.931	34894	1793.7	35.02	186.4	320723	4.762 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.502	20511	1866.0	72.88	1047.8	124698	5.149 ng/ml
Hydroxyzine	5.696	44105	2446.7	127.98	767.0	1328467	5.041 ng/ml
Ketamine	3.999	62566	6732.0	36.85	604.7	494033	4.864 ng/ml
Lamotrigine	4.228	5795	670.9	96.00	5808.7	309496	5.127 ng/ml
Lorazepam	5.723	13201	112.8	51.83	36.1	244227	4.900 ng/ml
MDA	3.106	86992	2602.3	30.18	∞	407060	4.852 ng/ml
MDMA	3.208	59523	∞	110.73	6988.0	116544	4.975 ng/ml
Meprobamate	4.849	25200	20266.9	32.21	670.5	143893	4.910 ng/ml
Methadone	5.635	127476	4439.5	50.63	32791.7	831436	4.918 ng/ml
Methamphetamine	3.127	475845	7152.1	40.25	∞	1119402	9.726 ng/ml
Metoprolol	4.278	16537	4363.8	103.16	8168.1	1328467	4.802 ng/ml
Mirtazapine	4.589	134289	24447.5	50.76	15212.8	596899	5.031 ng/ml
Mitragynine	5.199	23426	26051.1	30.60	∞	1328467	4.796 ng/ml
Morphine	1.151	2505	285.0	19.87	45.9	5725	5.036 ng/ml
Norbuprenorphine	4.937	697	258.1	84.95	786.3	15317	0.322 ng/ml
Nordiazepam	5.876	17548	2555.4	64.94	70700.9	114620	5.089 ng/ml
Norfentanyl	4.030	5298	790.7	271.20	1263.4	993080	0.912 ng/ml
Noroxycodone	2.808	24911	584.1	51.08	688.8	151380	5.148 ng/ml
O-desmethyl-tramadol	3.299	154848	40908.7	6.26	868.3	1142487	4.933 ng/ml
O-Desmethylvenlafaxine	4.018	42226	260.2	240.88	544.8	278227	4.986 ng/ml
Olanzapine	4.444	44515	25393.6	43.14	1349.0	219410	4.748 ng/ml
Oxazepam	5.725	27792	728.5	75.89	218.3	244227	5.072 ng/ml
Oxycodone	2.726	68328	4905.0	30.55	734.3	405908	4.698 ng/ml
Oxymorphone	1.309	36049	∞	45.66	∞	229004	5.002 ng/ml
Phentermine	3.709	29063	411.7	12.24	341.1	596899	4.902 ng/ml
Promethazine	5.521	90485	∞	39.84	1574.5	886657	5.092 ng/ml
Pseudoephedrine	2.466	178874	∞	17.23	∞	1328467	5.056 ng/ml
Quetiapine	5.539	71004	93097.6	64.85	100609.2	198595	5.111 ng/ml
Sertraline	5.765	16553	7866.8	90.21	1283.4	82844	5.252 ng/ml
Temazepam	5.792	60451	3122.1	31.46	2904.4	553712	5.042 ng/ml
Tramadol	4.192	161307	∞	3.51	331.8	1184024	4.916 ng/ml
Trazodone	5.128	69161	10233.6	122.28	1561.7	616985	5.069 ng/ml
Venlafaxine	4.996	110437	43931.5	45.62	440.7	1042130	5.760 ng/ml
Zolpidem	4.887	149502	36734.8	26.90	30517.2	1079388	4.874 ng/ml

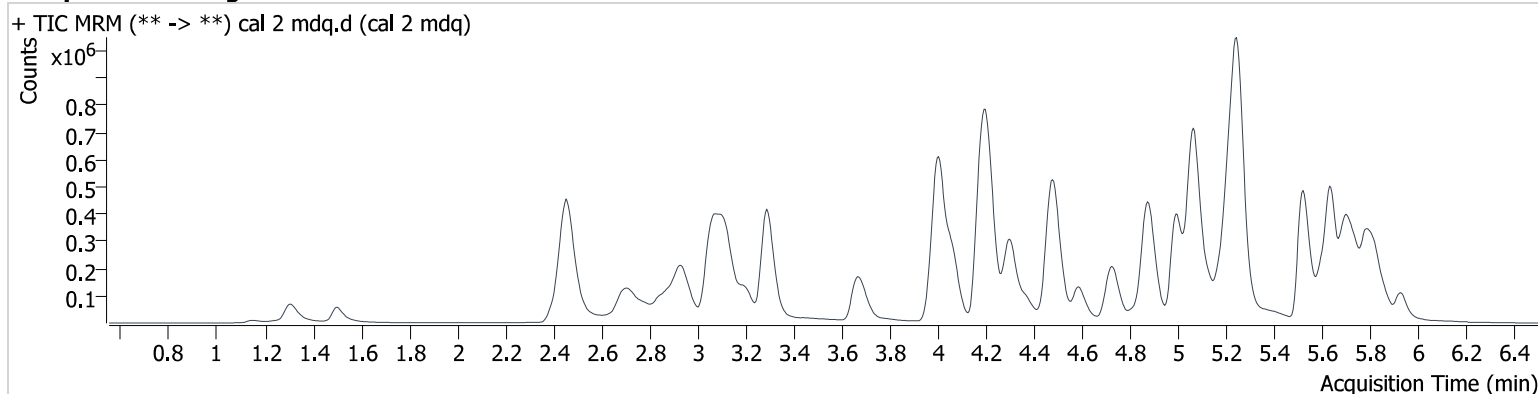
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-B1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 9:56:44 AM  
**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	3.057	2795	∞	131.46	3563.8	68941	1.004 ng/ml
7-aminoclonazepam	4.201	43373	2033.8	113.20	4685.8	208986	10.426 ng/ml
a-hydroxyalprazolam	5.666	7623	380.8	76.70	2719.0	73363	9.993 ng/ml
alpha-PHP	4.884	53781	4279.6	239.11	36967.7	700500	10.776 ng/ml
alpha-PVP	4.311	188764	15953.9	54.80	11621.0	700500	9.854 ng/ml
Alprazolam	5.744	83936	3144.8	85.93	4315.2	273993	9.888 ng/ml
Amphetamine	2.939	130004	2257.5	290.15	3991.8	355592	9.234 ng/ml
Benzoylcegonine	3.812	4934	258.8	40.74	46.1	15768	9.862 ng/ml
Buprenorphine	5.840	7554	336.7	14.86	124.3	96391	1.018 ng/ml
Bupropion	4.735	173780	3230.0	73.88	4647.8	490888	9.778 ng/ml
Carisoprodol	5.700	55012	89989.8	63.26	352.6	159730	10.019 ng/ml
Chlordiazepoxide	5.828	22615	209.6	130.75	156.1	419861	10.098 ng/ml
Chlorpheniramine	5.068	287061	6528.9	0.30	79.6	1062022	10.197 ng/ml
Citalopram	5.185	129732	2806.1	41.15	279550.5	500067	9.988 ng/ml
Clonazepam	5.577	40744	1991.0	38.95	1285125734 3478.9	73363	10.108 ng/ml
Clonazepam	5.518	45579	1376.8	36.69	3695.7	112428	10.053 ng/ml
Cocaine	4.210	139621	58065.0	49.13	5383.1	1048862	10.312 ng/ml
Codeine	2.468	18379	8322.5	86.73	1217.0	77951	10.418 ng/ml
Cyclobenzaprine	5.606	147544	326369.9	8.78	317.4	403989	10.136 ng/ml
Dextromethorphan	5.224	95988	125162.6	75.85	283672.2	446541	9.852 ng/ml
Dextrorphan	4.065	112499	67331.1	43.97	9917.4	540065	10.248 ng/ml
Diazepam	5.932	45482	∞	83.51	2158.0	189836	10.251 ng/ml
Dihydrocodeine	2.442	42994	1288.8	63.10	134.2	260236	9.823 ng/ml
Diphenhydramine	5.255	427607	22757.0	32.22	19863.5	2005866	9.335 ng/ml
Doxylamine	4.487	403504	12107.9	96.60	50069.3	1273958	10.081 ng/ml
Duloxetine	5.631	14938	204.6	10.57	203.2	39519	9.685 ng/ml
EDDP	5.218	212580	∞	43.09	11408.4	1006107	9.803 ng/ml
Etizolam	5.790	9134	321.1	415.18	33933.6	189836	10.339 ng/ml
Fentanyl	5.061	14766	1539.9	127.02	1569.1	651947	0.949 ng/ml
Flualprazolam	5.676	32640	∞	105.31	1317.1	112428	9.441 ng/ml
Fluorofentanyl	5.118	12561	12002.3	117.14	322.7	6796	0.976 ng/ml
Fluoxetine	5.698	106354	∞	6.10	∞	313717	9.794 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	2.926	69753	1848.9	34.59	616.2	328778	10.568 ng/ml
Hydromorphone	1.507	41434	1004.0	75.66	1910.4	135716	9.669 ng/ml
Hydroxyzine	5.696	91477	526.6	121.51	101633.3	1357809	10.232 ng/ml
Ketamine	3.994	122755	3563.0	38.44	1178.5	513216	10.193 ng/ml
Lamotrigine	4.223	11371	3081.5	98.76	∞	313717	9.785 ng/ml
Lorazepam	5.723	27893	2540.7	41.78	269.6	247368	10.295 ng/ml
MDA	3.101	167217	2490.8	30.61	∞	408386	10.170 ng/ml
MDMA	3.202	122522	220638.5	106.90	5925.7	116488	10.121 ng/ml
Meprobamate	4.844	48570	2778.0	33.31	534.1	145413	10.128 ng/ml
Methadone	5.640	268048	12713.2	47.85	31795.1	825912	10.404 ng/ml
Methamphetamine	3.127	485138	10788.0	38.11	1468.3	1139408	9.760 ng/ml
Metoprolol	4.273	34464	25138.3	93.99	3194.5	1357809	10.566 ng/ml
Mirtazapine	4.584	255565	11998.8	52.45	5103.7	608564	9.390 ng/ml
Mitragynine	5.204	45197	3380.3	31.25	9466.6	1357809	10.483 ng/ml
Morphine	1.156	5193	954.1	21.39	152.8	6275	9.817 ng/ml
Norbuprenorphine	4.947	1378	1493.3	93.31	∞	15948	0.945 ng/ml
Nordiazepam	5.871	33534	∞	62.84	68950.2	112428	9.667 ng/ml
Norfentanyl	4.025	5582	614.7	267.51	239.8	965740	1.032 ng/ml
Noroxycodone	2.803	48167	1315.0	53.34	294.8	157633	9.630 ng/ml
O-desmethyl-tramadol	3.294	305729	19652.9	6.29	1783.5	1144579	10.099 ng/ml
O-Desmethylvenlafaxine	4.013	81867	531.4	247.77	4501.2	282075	9.996 ng/ml
Olanzapine	4.444	90374	3129.3	42.39	21446.2	226370	10.430 ng/ml
Oxazepam	5.725	53647	471.6	77.51	331.2	247368	9.706 ng/ml
Oxycodone	2.726	138346	258337.2	30.63	6170.7	408624	10.563 ng/ml
Oxymorphone	1.309	69815	∞	45.94	∞	227352	9.888 ng/ml
Phentermine	3.704	54288	998.5	11.62	530.5	608564	9.980 ng/ml
Promethazine	5.521	189581	7919.3	39.15	1272.5	922840	9.829 ng/ml
Pseudoephedrine	2.466	350440	7422.0	17.34	∞	1357809	9.888 ng/ml
Quetiapine	5.539	143930	337283.3	65.11	9289.6	212351	9.670 ng/ml
Sertraline	5.765	24150	2914.0	96.54	1318.3	81235	9.179 ng/ml
Temazepam	5.792	119761	1884.4	32.12	1341.7	560289	9.872 ng/ml
Tramadol	4.192	318730	∞	3.46	9012.2	1219569	10.063 ng/ml
Trazodone	5.133	135705	10408.0	126.79	11269.9	625224	9.940 ng/ml
Venlafaxine	4.996	221655	5308.2	47.42	1990.4	1083895	10.239 ng/ml
Zolpidem	4.893	304384	1619505.7	26.23	9282.5	1108806	10.362 ng/ml

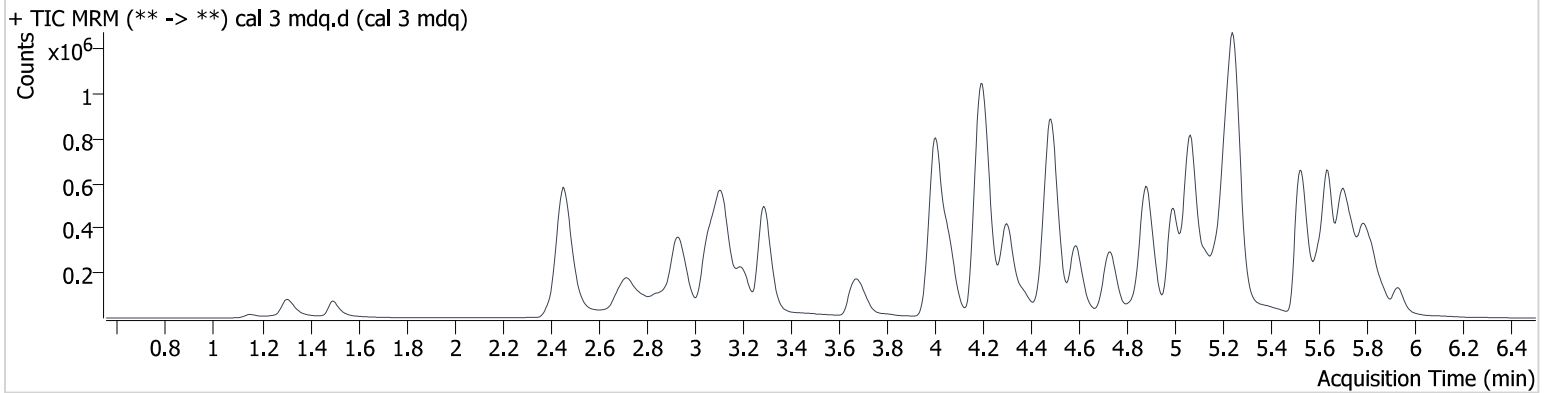
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-C1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 10:05:26 AM  
**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	3.057	6354	18361.7	126.70	14632.7	63640	2.545 ng/ml
7-aminoclonazepam	4.201	115574	10425.6	113.17	4194.5	226796	26.513 ng/ml
a-hydroxyalprazolam	5.660	15206	∞	66.35	1590.7	59671	26.628 ng/ml
alpha-PHP	4.879	114151	2173.8	257.65	15087.4	661139	25.549 ng/ml
alpha-PVP	4.306	448327	151982.9	54.15	24078.5	661139	24.532 ng/ml
Alprazolam	5.744	164127	2776.8	89.80	10406.9	222601	24.234 ng/ml
Amphetamine	2.939	302743	11058.8	300.54	33882.4	317882	28.123 ng/ml
Benzoylcegonine	3.802	11867	1151.5	45.86	368.6	16372	24.107 ng/ml
Buprenorphine	5.845	15154	1353.6	15.19	225.7	78141	2.601 ng/ml
Bupropion	4.735	390603	14832.6	73.29	6509.5	439002	25.341 ng/ml
Carisoprodol	5.695	113224	2048739.4	62.10	1074.8	127514	25.919 ng/ml
Chlordiazepoxide	5.828	50731	∞	126.96	∞	354254	27.685 ng/ml
Chlorpheniramine	5.068	731362	182724.1	0.27	155.2	1123160	25.185 ng/ml
Citalopram	5.180	287893	11023.9	40.88	279745.0	444705	25.050 ng/ml
Clonazepam	5.572	81801	∞	31.93	∞	59671	24.584 ng/ml
Clonazolam	5.518	94885	7635.1	39.17	1534.8	94473	25.070 ng/ml
Cocaine	4.210	313411	285200.8	49.75	27217.6	1009493	24.462 ng/ml
Codeine	2.473	41087	5784.5	89.11	4454.2	70979	26.723 ng/ml
Cyclobenzaprine	5.606	340751	67360.7	8.80	3475.1	380846	25.595 ng/ml
Dextromethorphan	5.224	218184	29078.8	72.29	2435452.6	404297	24.927 ng/ml
Dextrorphan	4.065	255487	55992.3	44.45	∞	501314	24.162 ng/ml
Diazepam	5.932	92024	792.9	85.35	3635.0	164493	23.952 ng/ml
Dihydrocodeine	2.437	107565	1956.0	60.63	1161.9	247149	28.057 ng/ml
Diphenhydramine	5.250	939641	∞	32.39	15404.5	1759683	22.769 ng/ml
Doxylamine	4.487	1052293	34383.8	96.35	160544.7	1332976	25.501 ng/ml
Duloxetine	5.631	41575	695.6	10.72	140.7	46770	24.387 ng/ml
EDDP	5.218	515707	∞	40.92	124919.0	985681	24.969 ng/ml
Etizolam	5.790	18893	812.0	415.78	6786.6	164493	24.698 ng/ml
Fentanyl	5.062	30136	1438.3	132.01	21744.5	580368	2.394 ng/ml
Flualprazolam	5.671	70982	912.9	95.93	∞	94473	24.706 ng/ml
Fluorofentanyl	5.118	26850	4835.6	123.39	199.2	6194	2.324 ng/ml
Fluoxetine	5.698	251706	463209.0	6.31	27275.1	314811	24.307 ng/ml
Hydrocodone	2.926	149689	1792.9	35.66	1448.8	298659	26.805 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.497	82933	3467.0	73.62	1915.9	114306	23.161 ng/ml
Hydroxyzine	5.696	199197	6596.9	120.95	4490.5	1297812	23.315 ng/ml
Ketamine	3.994	276447	13186.1	37.70	2265.8	477661	26.273 ng/ml
Lamotrigine	4.223	24339	18013.9	97.53	32584.1	314811	20.701 ng/ml
Lorazepam	5.723	55588	1434.4	43.72	201.7	198652	25.647 ng/ml
MDA	3.101	373826	16570.1	30.07	∞	375908	26.064 ng/ml
MDMA	3.202	280086	42602.7	104.95	20359.6	106669	25.092 ng/ml
Meprobamate	4.844	102165	5032.6	34.98	∞	126817	25.616 ng/ml
Methadone	5.635	564771	376969.9	48.82	18681.1	739133	24.487 ng/ml
Methamphetamine	3.122	785381	25560.4	39.07	1499.6	1040982	25.878 ng/ml
Metoprolol	4.273	75297	25084.1	97.24	∞	1297812	25.110 ng/ml
Mirtazapine	4.584	711438	160253.0	47.99	78339.4	562580	28.276 ng/ml
Mitragynine	5.194	94317	31447.0	31.39	35132.3	1297812	24.795 ng/ml
Morphine	1.156	12463	1211.5	21.52	236.7	6141	24.551 ng/ml
Norbuprenorphine	4.942	2726	896.3	92.57	4324.8	14278	2.537 ng/ml
Nordiazepam	5.871	74796	∞	58.46	3519.6	94473	25.230 ng/ml
Norfentanyl	4.025	9689	547.8	278.48	374.3	897807	2.392 ng/ml
Noroxycodone	2.803	110256	1658.2	52.53	871.6	142668	24.482 ng/ml
O-desmethyl-tramadol	3.294	689933	128922.0	6.25	7469.8	1035135	25.783 ng/ml
O-Desmethylvenlafaxine	4.008	180074	687.9	248.77	1020.2	256430	24.904 ng/ml
Olanzapine	4.444	266544	9795.1	44.22	354.0	269938	27.452 ng/ml
Oxazepam	5.725	111114	1521.6	73.28	1148.3	198652	25.105 ng/ml
Oxycodone	2.721	307113	10345.5	29.79	2593.0	372247	27.323 ng/ml
Oxymorphone	1.309	142898	∞	43.96	∞	183059	25.349 ng/ml
Phentermine	3.699	123727	400.8	11.59	1534.6	562580	26.362 ng/ml
Promethazine	5.516	449072	211526.7	39.52	7199.5	858251	24.394 ng/ml
Pseudoephedrine	2.460	819558	∞	17.33	99056.6	1297812	24.507 ng/ml
Quetiapine	5.539	356552	166008.2	62.38	∞	205241	24.749 ng/ml
Sertraline	5.765	67950	14673.3	97.09	6654.5	103103	23.753 ng/ml
Temazepam	5.792	249971	11263.6	30.69	2843.5	463561	24.906 ng/ml
Tramadol	4.187	693598	∞	3.23	∞	1076244	25.822 ng/ml
Trazodone	5.133	296970	25145.6	126.34	85717.9	551685	24.852 ng/ml
Venlafaxine	4.991	489540	17882.9	47.50	3250.3	973197	23.811 ng/ml
Zolpidem	4.893	648376	6045940.8	27.02	118673.1	1003604	25.354 ng/ml

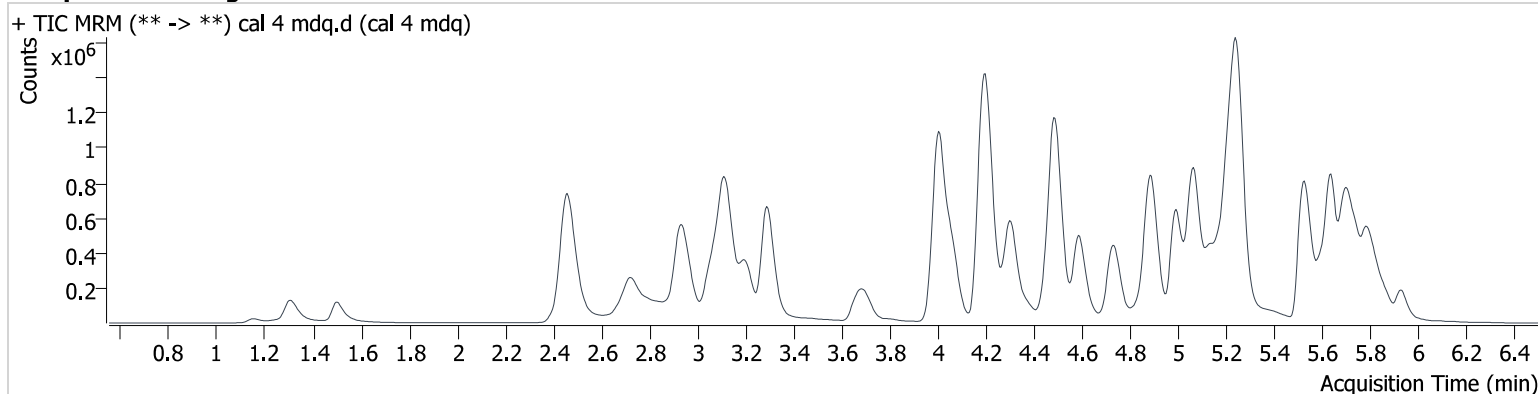
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-D1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 10:14:09 AM  
**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	3.052	11569	119354.8	129.48	1357895.4	57894	5.141 ng/ml
7-aminoclonazepam	4.201	174044	11348.8	112.49	5807.7	170732	53.663 ng/ml
a-hydroxyalprazolam	5.660	30541	286.2	63.08	14834.9	59451	55.164 ng/ml
alpha-PHP	4.884	211912	2460.3	254.07	7757.7	595044	53.817 ng/ml
alpha-PVP	4.306	812270	168961.0	53.82	12459.6	595044	49.206 ng/ml
Alprazolam	5.744	325760	∞	90.26	∞	222352	48.459 ng/ml
Amphetamine	2.939	515635	11997.0	289.57	27502.1	294899	53.751 ng/ml
Benzoylcegonine	3.807	20970	2334.7	41.56	816.5	14624	48.628 ng/ml
Buprenorphine	5.851	28355	682.0	16.67	448.6	80745	4.756 ng/ml
Bupropion	4.735	728538	143186.4	75.03	∞	400235	52.373 ng/ml
Carisoprodol	5.695	198647	∞	64.53	10031.9	119248	48.675 ng/ml
Chlordiazepoxide	5.828	85101	2338.7	136.98	4935.7	323859	51.222 ng/ml
Chlorpheniramine	5.068	1208752	95802.0	0.28	306.3	937585	50.293 ng/ml
Citalopram	5.180	524945	49060.7	41.34	395014.8	404067	50.355 ng/ml
Clonazepam	5.577	163812	13329.8	33.72	241604.1	59451	49.159 ng/ml
Clonazolam	5.518	183921	238331.3	38.84	18526.1	84902	54.203 ng/ml
Cocaine	4.210	561516	135595.6	49.72	35379.2	898154	49.573 ng/ml
Codeine	2.473	72015	638720.6	88.92	8459.3	64359	52.389 ng/ml
Cyclobenzaprine	5.600	519060	209229.4	8.87	7412.3	315933	47.438 ng/ml
Dextromethorphan	5.224	376453	∞	76.09	1033284.4	356141	48.947 ng/ml
Dextrorphan	4.065	473544	189261.1	44.75	∞	455358	48.648 ng/ml
Diazepam	5.932	175510	6696.6	85.51	8466.0	152255	49.367 ng/ml
Dihydrocodeine	2.442	175254	355.6	64.47	7221.8	218914	52.728 ng/ml
Diphenhydramine	5.250	1804372	202446.2	30.22	79093.1	1602589	47.555 ng/ml
Doxylamine	4.492	1692674	∞	95.21	162153.6	1086692	50.562 ng/ml
Duloxetine	5.631	48216	434.4	9.46	124.9	26760	50.656 ng/ml
EDDP	5.218	882357	36097.0	44.34	5275162.5	892577	47.594 ng/ml
Etizolam	5.790	36945	2398.3	407.59	10320.0	152255	52.193 ng/ml
Fentanyl	5.062	55859	8631.1	123.01	25946.6	522586	5.109 ng/ml
Flualprazolam	5.671	133894	3834.2	99.95	22307.0	84902	52.044 ng/ml
Fluorofentanyl	5.118	47919	19808.5	125.05	342.1	5745	4.496 ng/ml
Fluoxetine	5.698	317860	20502.6	6.19	35392.6	201608	48.795 ng/ml
Hydrocodone	2.926	258236	∞	35.66	24670.1	272181	51.946 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.502	181843	11164.6	72.55	2020.3	116682	49.900 ng/ml
Hydroxyzine	5.696	359503	9675.7	118.80	22316.4	1153489	47.345 ng/ml
Ketamine	3.994	487076	78406.0	39.55	2578.3	431659	52.300 ng/ml
Lamotrigine	4.218	43150	11946.2	96.53	3351.5	201608	57.043 ng/ml
Lorazepam	5.718	100473	1622.5	42.26	149.4	181868	50.698 ng/ml
MDA	3.101	655833	52117.1	30.26	∞	313524	55.878 ng/ml
MDMA	3.202	498189	79116.9	107.47	32601.3	97353	48.792 ng/ml
Meprobamate	4.844	192147	12306.6	32.40	1514.6	115076	53.995 ng/ml
Methadone	5.635	1023214	19296.0	49.46	27650.7	658218	49.810 ng/ml
Methamphetamine	3.122	1257099	46399.2	39.08	14512.6	967996	52.566 ng/ml
Metoprolol	4.273	140230	41503.3	96.39	∞	1153489	53.430 ng/ml
Mirtazapine	4.584	1122248	1180220.6	50.34	133484.9	510065	49.196 ng/ml
Mitragynine	5.199	184913	5800.9	31.27	42861.4	1153489	56.637 ng/ml
Morphine	1.156	23401	3677.8	21.06	1323.4	5368	53.114 ng/ml
Norbuprenorphine	4.947	4813	∞	105.04	14462.4	13865	4.917 ng/ml
Nordiazepam	5.871	132147	24052.4	62.07	1505.2	84902	49.349 ng/ml
Norfentanyl	4.025	15538	2213.9	279.21	1357.1	817398	4.620 ng/ml
Noroxycodone	2.803	196718	925.7	52.67	1382.5	131106	47.611 ng/ml
O-desmethyl-tramadol	3.294	1288667	272066.2	6.35	1363343.2	979930	51.249 ng/ml
O-Desmethylvenlafaxine	4.008	339414	2309.0	242.82	30291.2	236339	51.460 ng/ml
Olanzapine	4.450	412694	3014.4	43.86	11031.5	213682	54.768 ng/ml
Oxazepam	5.725	199716	1221.8	72.32	675.3	181868	49.331 ng/ml
Oxycodone	2.721	568876	39278.2	29.55	15461.9	343430	55.969 ng/ml
Oxymorphone	1.304	299213	∞	44.29	∞	191939	50.760 ng/ml
Phentermine	3.704	227692	1393.7	10.98	1000.4	510065	54.743 ng/ml
Promethazine	5.516	731286	31811.5	40.32	18694.0	702850	48.096 ng/ml
Pseudoephedrine	2.466	1436450	31792.1	17.31	9781.5	1153489	48.538 ng/ml
Quetiapine	5.539	578968	235313.5	61.75	335351.3	171999	47.934 ng/ml
Sertraline	5.765	65171	4568.5	98.99	2557.9	49394	50.354 ng/ml
Temazepam	5.792	469159	∞	30.92	1809.2	436903	49.596 ng/ml
Tramadol	4.192	1298821	∞	3.43	∞	1007830	52.323 ng/ml
Trazodone	5.138	528518	54999.2	125.38	39665.5	529717	46.177 ng/ml
Venlafaxine	4.991	907663	87938.9	48.51	6429.4	909672	46.305 ng/ml
Zolpidem	4.893	1216781	64248.7	27.98	640122.4	936482	51.714 ng/ml

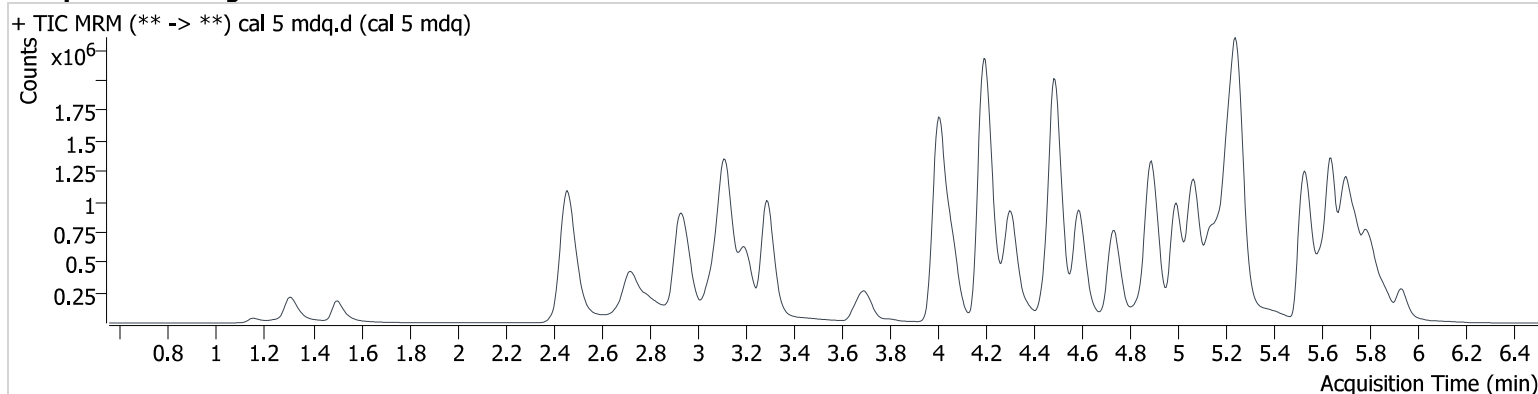
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\061423rr\QuantResults\mdq.batch.bin  
**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-E1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 10:22:50 AM  
**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	3.052	21535	46350.3	137.75	∞	52508	10.603 ng/ml
7-aminoclonazepam	4.201	265326	16511.4	104.99	6065.8	129301	108.657 ng/ml
a-hydroxyalprazolam	5.660	47109	∞	66.93	632.2	47167	108.629 ng/ml
alpha-PHP	4.879	387306	4172.5	256.04	41794.2	561806	105.165 ng/ml
alpha-PVP	4.311	1531028	171424.3	53.95	37542.8	561806	98.059 ng/ml
Alprazolam	5.744	592321	19169.6	88.10	87527.8	194334	101.148 ng/ml
Amphetamine	2.939	912480	34452.6	281.87	106475.0	278634	102.884 ng/ml
Benzoylcegonine	3.802	34371	3592.0	41.62	323.9	11361	103.666 ng/ml
Buprenorphine	5.851	54467	3236.9	15.89	633.8	76581	9.691 ng/ml
Bupropion	4.735	1403117	∞	74.12	11970.1	400725	101.212 ng/ml
Carisoprodol	5.695	337424	521721.7	62.57	3933.0	95142	103.690 ng/ml
Chlordiazepoxide	5.828	155010	6566.5	134.71	12114.0	293170	103.578 ng/ml
Chlorpheniramine	5.063	2290911	149856.4	0.26	170.3	879064	102.113 ng/ml
Citalopram	5.175	940236	29889.7	41.50	3481817.5	357037	102.158 ng/ml
Clonazepam	5.572	272616	15860.9	31.59	56805.8	47167	102.844 ng/ml
Clonazolam	5.513	319038	13927.5	38.50	17310.3	77578	103.001 ng/ml
Cocaine	4.210	1045662	39524.9	48.88	22338.6	826940	100.581 ng/ml
Codeine	2.473	128298	6665.6	88.21	16150.9	57376	105.481 ng/ml
Cyclobenzaprine	5.600	1005766	166539.5	8.77	5853.8	279814	104.410 ng/ml
Dextromethorphan	5.218	708520	205422.3	71.86	176421.0	321635	102.143 ng/ml
Dextrorphan	4.065	900210	77540.6	45.35	861991.1	428433	97.651 ng/ml
Diazepam	5.932	324109	7510.6	84.96	9974.5	136531	101.677 ng/ml
Dihydrocodeine	2.437	335633	8816.4	62.83	1258.7	209311	106.950 ng/ml
Diphenhydramine	5.250	3277185	261555.8	29.64	87015.1	1443295	95.490 ng/ml
Doxylamine	4.487	3221891	585326.3	95.80	364862.3	1029460	101.845 ng/ml
Duloxetine	5.631	82382	224.1	9.53	362.4	22909	102.286 ng/ml
EDDP	5.213	1666094	277668.9	43.18	140851.2	800166	100.767 ng/ml
Etizolam	5.790	68068	46464.6	406.59	10588.6	136531	107.248 ng/ml
Fentanyl	5.062	102760	1241.4	125.36	10236.1	487912	10.231 ng/ml
Flualprazolam	5.671	232472	88168.2	97.37	14807.0	77578	99.045 ng/ml
Fluorofentanyl	5.118	92729	89594.0	122.10	2821.4	5306	9.447 ng/ml
Fluoxetine	5.698	557038	381916.1	6.27	39616.1	170708	101.942 ng/ml
Hydrocodone	2.921	461968	4829.3	38.21	2063.6	243601	105.179 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.502	324204	5516.8	73.16	6016.5	101616	102.294 ng/ml
Hydroxyzine	5.696	650189	286113.7	121.48	1658.1	1037119	95.238 ng/ml
Ketamine	3.994	895547	51944.6	38.97	2959.4	394271	106.426 ng/ml
Lamotrigine	4.223	73552	1488.6	100.55	10102.0	170708	114.683 ng/ml
Lorazepam	5.718	147844	∞	44.80	1477.6	137828	98.502 ng/ml
MDA	3.096	1154567	20939.2	30.24	2902282213 84425.0	291367	106.706 ng/ml
MDMA	3.202	960241	115112.7	104.40	34997.3	89743	101.891 ng/ml
Meprobamate	4.844	328771	18453.0	33.82	18585.8	104820	102.166 ng/ml
Methadone	5.635	1994841	776009.0	46.99	56797.1	626509	102.018 ng/ml
Methamphetamine	3.122	2148385	∞	38.89	135415.3	938861	101.097 ng/ml
Metoprolol	4.273	254785	154052.7	98.56	17421.4	1037119	108.730 ng/ml
Mirtazapine	4.584	2129792	290260.4	49.82	19493.8	479228	99.371 ng/ml
Mitragynine	5.194	325865	20912.1	30.71	2854.0	1037119	112.555 ng/ml
Morphine	1.156	39178	5771.4	22.44	2279.1	4834	99.017 ng/ml
Norbuprenorphine	4.947	8424	18272.5	99.79	47516.5	12769	9.678 ng/ml
Nordiazepam	5.871	233427	∞	63.30	8652.9	77578	95.159 ng/ml
Norfentanyl	4.025	27960	23907.3	271.12	3514.0	732861	9.813 ng/ml
Noroxycodone	2.798	373747	19846.0	51.32	2221.5	125091	94.888 ng/ml
O-desmethyl-tramadol	3.294	2467321	147115.6	6.44	8859.4	959609	100.573 ng/ml
O-Desmethylvenlafaxine	4.008	639902	1770.7	241.82	2795.8	224672	102.554 ng/ml
Olanzapine	4.450	759948	4016.7	45.17	357.8	207141	105.047 ng/ml
Oxazepam	5.725	307769	∞	75.03	7026.8	137828	100.358 ng/ml
Oxycodone	2.721	1025346	60034.0	31.62	21683.2	325230	107.519 ng/ml
Oxymorphone	1.304	584740	∞	44.39	∞	187413	101.731 ng/ml
Phentermine	3.699	405406	3227.0	10.76	2205.6	479228	104.816 ng/ml
Promethazine	5.516	1361884	2672413.9	38.77	∞	646227	96.993 ng/ml
Pseudoephedrine	2.460	2713600	34731.2	16.97	19796.0	1037119	102.218 ng/ml
Quetiapine	5.539	1076725	1709102.6	63.30	∞	152110	100.775 ng/ml
Sertraline	5.765	112289	45359.5	99.26	9041.9	45117	97.464 ng/ml
Temazepam	5.792	768728	18245.2	31.56	1469.5	363109	97.780 ng/ml
Tramadol	4.187	2429025	∞	3.23	4084.0	940231	105.579 ng/ml
Trazodone	5.138	1002440	70732.4	125.32	59886.2	489909	94.843 ng/ml
Venlafaxine	4.991	1770963	162601.5	46.74	4194.6	854306	95.186 ng/ml
Zolpidem	4.893	2270269	78184.3	28.33	78064.3	885874	102.696 ng/ml

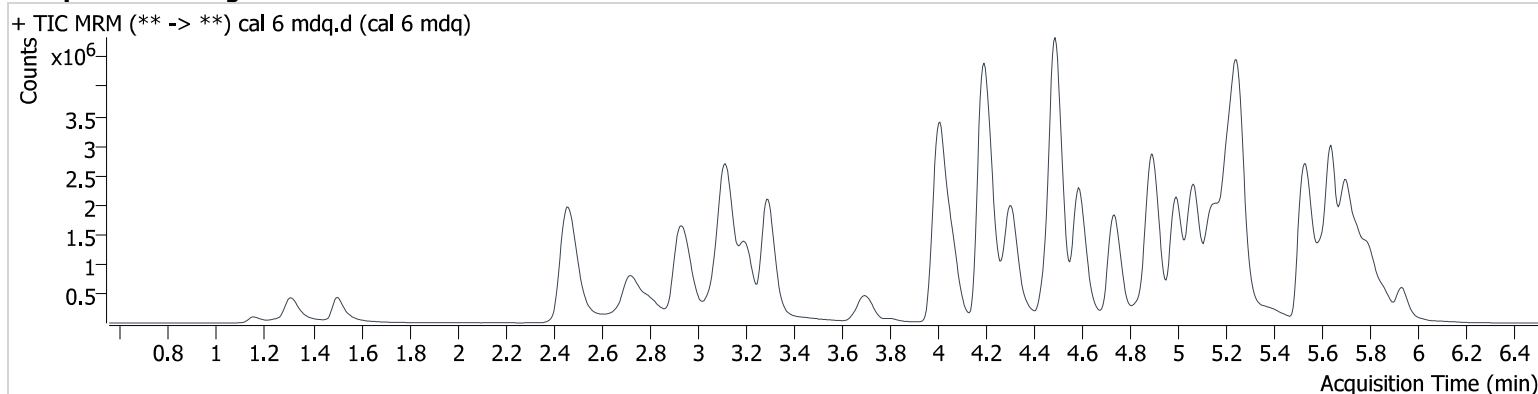
# AM #28 Multi-Drug Quant. Results

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**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-F1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 10:31:32 AM  
**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	3.052	53975	∞	133.20	357585.3	56114	24.932 ng/ml
7-aminoclonazepam	4.196	568441	53048.7	109.48	26372.9	123890	243.732 ng/ml
a-hydroxyalprazolam	5.660	89298	844.6	65.10	∞	40919	239.084 ng/ml
alpha-PHP	4.879	931998	51999.0	254.34	61921.8	561504	254.685 ng/ml
alpha-PVP	4.306	3871250	471577.3	53.03	78794.1	561504	247.810 ng/ml
Alprazolam	5.744	1319463	7398.7	89.15	∞	172302	254.597 ng/ml
Amphetamine	2.939	1857787	37856.2	254.97	∞	281291	210.068 ng/ml
Benzoylcegonine	3.802	113945	35307.1	41.88	2761.6	15658	250.704 ng/ml
Buprenorphine	5.856	147064	29862.4	15.98	2690.2	81625	24.636 ng/ml
Bupropion	4.735	3691255	1280433.3	72.87	168426.6	430363	248.660 ng/ml
Carisoprodol	5.700	586411	2125396.9	60.78	4894.4	66653	257.312 ng/ml
Chlordiazepoxide	5.828	329982	8546.8	123.56	87402.1	269031	240.947 ng/ml
Chlorpheniramine	5.063	5874653	242742.6	0.29	1884.2	939944	245.506 ng/ml
Citalopram	5.175	2030845	72981.2	43.32	4216483.6	320195	246.161 ng/ml
Clonazepam	5.577	589410	13466.4	32.06	∞	40919	255.936 ng/ml
Clonazolam	5.513	630541	13381.4	37.21	16162.4	64706	244.219 ng/ml
Cocaine	4.210	2477756	7450275.5	49.43	∞	783925	251.872 ng/ml
Codeine	2.473	262340	3966.6	90.91	14043.7	49206	252.580 ng/ml
Cyclobenzaprine	5.600	2478510	711117.1	8.92	951.4	276881	260.806 ng/ml
Dextromethorphan	5.218	1458726	122519.0	73.64	627827.9	267936	252.630 ng/ml
Dextrorphan	4.065	2155761	892620.5	45.46	245819.7	422057	236.479 ng/ml
Diazepam	5.932	818021	15064.1	84.20	∞	138583	252.842 ng/ml
Dihydrocodeine	2.437	745342	6342.3	62.17	7099.8	210482	237.794 ng/ml
Diphenhydramine	5.255	7679243	357748.0	29.27	291891.1	1338166	240.710 ng/ml
Doxylamine	4.487	8514561	201419.7	93.85	512320.8	1097403	252.857 ng/ml
Duloxetine	5.631	202341	2680.3	9.21	367.7	23199	249.787 ng/ml
EDDP	5.218	4008050	164255.5	46.25	2320235.3	794436	244.827 ng/ml
Etizolam	5.790	160665	3866.9	390.58	∞	138583	249.411 ng/ml
Fentanyl	5.062	251833	19066.8	128.03	165301.0	483849	25.533 ng/ml
Flualprazolam	5.671	463311	6468.0	95.94	4223.1	64706	236.901 ng/ml
Fluorofentanyl	5.118	242746	235631.2	119.77	1724.4	5170	25.421 ng/ml
Fluoxetine	5.698	1334841	92540.1	6.02	247761.6	169098	247.874 ng/ml
Hydrocodone	2.921	1028692	46409.7	37.65	∞	239152	240.278 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.502	869814	∞	72.83	∞	110090	253.519 ng/ml
Hydroxyzine	5.696	1640702	612503.3	118.07	1676.0	979304	254.519 ng/ml
Ketamine	3.989	2093458	429214.9	39.11	15053.3	381544	258.687 ng/ml
Lamotrigine	4.228	150258	16574.7	94.46	63271.3	169098	236.355 ng/ml
Lorazepam	5.718	198362	∞	42.92	692.2	74575	244.354 ng/ml
MDA	3.090	2161884	∞	28.97	∞	243679	240.087 ng/ml
MDMA	3.202	2281329	188976.3	103.39	∞	86820	250.051 ng/ml
Meprobamate	4.844	671364	17876.1	32.70	2492.5	99953	219.745 ng/ml
Methadone	5.635	5148915	26186632.9	46.05	2699999.7	666988	247.331 ng/ml
Methamphetamine	3.122	5239605	∞	38.98	39578.3	981479	250.677 ng/ml
Metoprolol	4.273	564423	638987.2	97.30	∞	979304	256.092 ng/ml
Mirtazapine	4.584	5393231	392349.1	49.50	426192.6	476231	253.219 ng/ml
Mitragynine	5.194	706141	76167.9	33.08	8248.0	979304	260.389 ng/ml
Morphine	1.156	112119	16389.5	20.61	11693.8	5574	246.242 ng/ml
Norbuprenorphine	4.947	22642	2459.7	93.56	∞	13520	25.135 ng/ml
Nordiazepam	5.871	510002	14985.3	59.83	10275.8	64706	248.845 ng/ml
Norfentanyl	4.025	53695	6478.3	283.78	11713.0	559205	25.510 ng/ml
Noroxycodone	2.798	831341	6672.3	49.16	17109.7	109667	240.872 ng/ml
O-desmethyl-tramadol	3.294	6377499	575440.4	6.18	47603.5	1011264	247.247 ng/ml
O-Desmethylvenlafaxine	4.008	1497200	4284.9	244.29	21363.5	215799	250.543 ng/ml
Olanzapine	4.450	2000261	12584.6	46.23	6803.2	239736	240.335 ng/ml
Oxazepam	5.725	432418	244613.1	71.23	∞	74575	260.670 ng/ml
Oxycodone	2.716	2355270	∞	29.64	∞	326256	247.621 ng/ml
Oxymorphone	1.309	1410885	∞	44.40	∞	181641	253.466 ng/ml
Phentermine	3.704	914917	49540.3	10.31	8381.3	476231	239.561 ng/ml
Promethazine	5.516	3790016	1537944.4	38.04	54097.1	708581	245.533 ng/ml
Pseudoephedrine	2.467	6297449	∞	16.81	∞	979304	251.536 ng/ml
Quetiapine	5.539	2595052	113937.9	62.67	3324717.3	148734	248.363 ng/ml
Sertraline	5.765	314878	65811.9	98.52	7323.0	49495	253.482 ng/ml
Temazepam	5.792	1474981	57605.2	31.25	3126.4	265584	256.508 ng/ml
Tramadol	4.187	5795817	∞	3.33	∞	923022	257.600 ng/ml
Trazodone	5.138	2481460	∞	126.83	69961.4	465900	247.090 ng/ml
Venlafaxine	4.991	4596112	141364.1	46.02	43992.5	864609	242.615 ng/ml
Zolpidem	4.898	5647931	533179.5	28.94	446879.4	908361	250.181 ng/ml

# AM #28 Multi-Drug Quant. Results

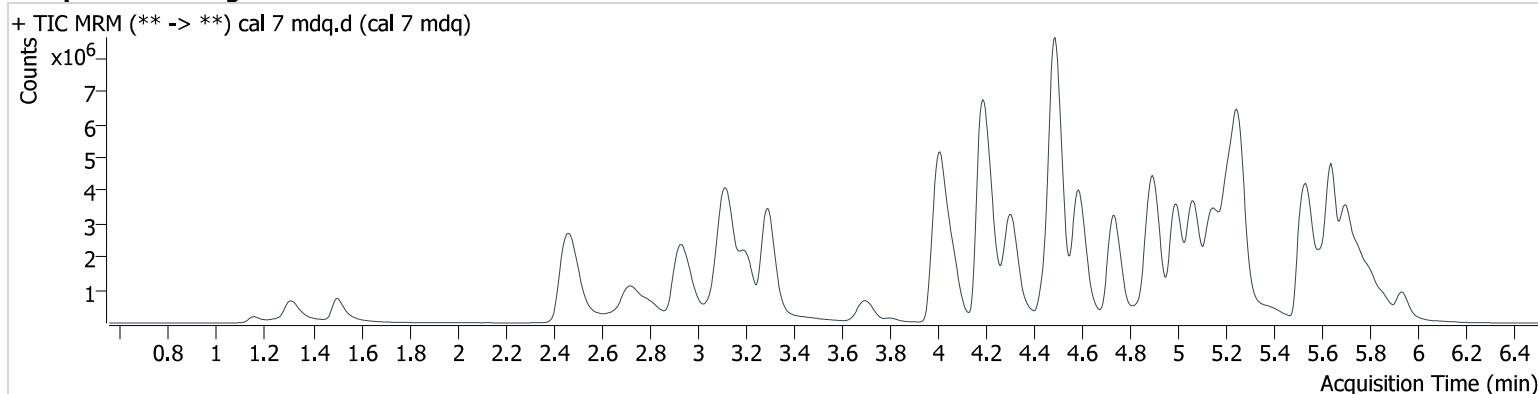
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**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 1-21-21long.m  
**Sample Position** P2-G1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 10:40:14 AM  
**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	3.052	95988	∞	135.40	5184527.7	51813	48.065 ng/ml
7-aminoclonazepam	4.191	633427	115207.3	113.73	41007.1	83712	402.360 ng/ml
a-hydroxyalprazolam	5.660	97306	∞	63.70	1474.0	26249	407.140 ng/ml
alpha-PHP	4.879	1549468	53778.9	253.99	20672.2	500563	475.878 ng/ml
alpha-PVP	4.306	7073741	211878.4	52.56	135675.4	500563	507.753 ng/ml
Alprazolam	5.744	2051084	∞	90.66	∞	130131	524.349 ng/ml
Amphetamine	2.939	2773749	98485.9	265.37	38990.3	264120	335.525 ng/ml
Benzoylcegonine	3.802	233583	9967.8	42.56	13336.0	16168	498.650 ng/ml
Buprenorphine	5.856	276350	18455.7	15.44	3604.2	77447	48.845 ng/ml
Bupropion	4.735	7040257	1101385.2	70.21	725738.7	406320	502.844 ng/ml
Carisoprodol	5.700	663463	2155939.8	61.18	4808.7	41067	472.539 ng/ml
Chlordiazepoxide	5.833	466796	17057.9	125.31	12208.7	192554	476.713 ng/ml
Chlorpheniramine	5.063	10894176	∞	0.29	5401.8	870504	492.033 ng/ml
Citalopram	5.175	3050861	77636.5	43.39	699137.5	237228	499.215 ng/ml
Clonazepam	5.572	734877	133400.5	32.61	253524.9	26249	497.197 ng/ml
Clonazolam	5.513	817120	∞	37.69	∞	37332	548.686 ng/ml
Cocaine	4.213	4107050	1471684.1	49.16	407658.4	667485	490.617 ng/ml
Codeine	2.478	391812	19577.4	91.40	6242.8	38608	481.496 ng/ml
Cyclobenzaprine	5.600	3736046	1565924.3	9.75	∞	240808	452.409 ng/ml
Dextromethorphan	5.218	2330175	147264.8	67.85	104620.9	192467	561.949 ng/ml
Dextrorphan	4.065	3852277	430602.3	45.26	117965.5	360340	494.270 ng/ml
Diazepam	5.932	1396359	4903.1	85.56	∞	120365	496.937 ng/ml
Dihydrocodeine	2.432	1248394	5689.9	61.92	5710.4	199576	421.074 ng/ml
Diphenhydramine	5.258	12704771	∞	27.75	79873.5	981168	542.624 ng/ml
Doxylamine	4.489	15969066	796780.6	96.56	1746621.7	1036847	502.179 ng/ml
Duloxetine	5.631	242047	2096.5	11.03	8964.9	13369	519.808 ng/ml
EDDP	5.213	7223782	2263319.9	42.32	169177.9	680821	515.411 ng/ml
Etizolam	5.790	256334	621577.7	416.36	∞	120365	458.162 ng/ml
Fentanyl	5.062	398160	27873.3	130.05	427562.8	394204	49.708 ng/ml
Flualprazolam	5.671	634996	∞	92.33	9091.5	37332	562.998 ng/ml
Fluorofentanyl	5.118	438783	196905.6	115.15	2987.0	4602	51.645 ng/ml
Fluoxetine	5.698	1821390	88145.0	6.54	94778.0	112372	509.897 ng/ml
Hydrocodone	2.921	1836673	8019.5	37.44	8362.3	216708	474.744 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydromorphone	1.502	1618992	∞	72.95	∞	102981	504.581 ng/ml
Hydroxyzine	5.696	2868224	2965808.6	116.68	50229.8	804074	541.910 ng/ml
Ketamine	3.989	3450787	104515.6	37.89	23342.3	333177	489.319 ng/ml
Lamotrigine	4.228	197545	60102.5	91.10	9229.0	112372	467.453 ng/ml
Lorazepam	5.718	191441	∞	48.22	580.6	35597	494.118 ng/ml
MDA	3.080	2745881	277370.1	28.76	∞	180437	412.505 ng/ml
MDMA	3.202	3717419	115135.2	102.28	253951.5	74733	473.250 ng/ml
Meprobamate	4.839	933808	18463.6	32.21	4741.3	81961	373.330 ng/ml
Methadone	5.635	9175915	27234792.5	46.14	∞	598905	490.871 ng/ml
Methamphetamine	3.122	9151514	891929.1	37.91	108492.6	948690	461.939 ng/ml
Metoprolol	4.268	856211	297102.5	98.03	∞	804074	473.777 ng/ml
Mirtazapine	4.584	9862472	2430110.6	48.89	550492.6	431873	510.615 ng/ml
Mitragynine	5.189	990500	47010.1	35.87	920047.3	804074	445.985 ng/ml
Morphine	1.156	219110	411713.6	21.02	15411.4	5315	505.013 ng/ml
Norbuprenorphine	4.947	40839	13703.0	95.85	144394.5	12209	50.572 ng/ml
Nordiazepam	5.876	653061	60603.2	61.82	56586.2	37332	551.979 ng/ml
Norfentanyl	4.030	69827	4167.7	289.15	26548.8	363780	51.529 ng/ml
Noroxycodone	2.803	1247608	42341.6	48.59	∞	76550	517.960 ng/ml
O-desmethyl-tramadol	3.294	11844193	436231.3	6.01	73375.1	956164	486.019 ng/ml
O-Desmethylvenlafaxine	4.008	2449473	10697.0	243.67	52257.4	181236	488.547 ng/ml
Olanzapine	4.444	3486377	90224.6	47.04	4700.9	250848	401.085 ng/ml
Oxazepam	5.725	386397	6345.2	74.26	3297.8	35597	488.013 ng/ml
Oxycodone	2.716	3916389	185731.5	29.73	13070.0	292974	459.464 ng/ml
Oxymorphone	1.309	2539945	∞	43.56	∞	165820	499.973 ng/ml
Phentermine	3.699	1496138	6496.4	10.00	11557.9	431873	432.948 ng/ml
Promethazine	5.516	6955017	108384.1	36.76	1127484.9	614185	519.361 ng/ml
Pseudoephedrine	2.469	10234126	∞	16.73	∞	804074	498.073 ng/ml
Quetiapine	5.544	4021942	∞	66.69	3388251.4	119031	480.957 ng/ml
Sertraline	5.760	466388	787920.8	96.73	272593.4	34582	540.490 ng/ml
Temazepam	5.792	1641859	80690.3	33.45	15473.4	150394	504.221 ng/ml
Tramadol	4.182	10016916	∞	3.22	1300.3	863818	476.305 ng/ml
Trazodone	5.138	4260484	318540.0	126.67	∞	379171	521.422 ng/ml
Venlafaxine	4.993	8653989	395647.5	43.97	263051.1	777328	507.080 ng/ml
Zolpidem	4.898	9843058	443657.2	28.32	88181.0	808264	490.689 ng/ml

# AM #28 Multi-Drug Quant. Results

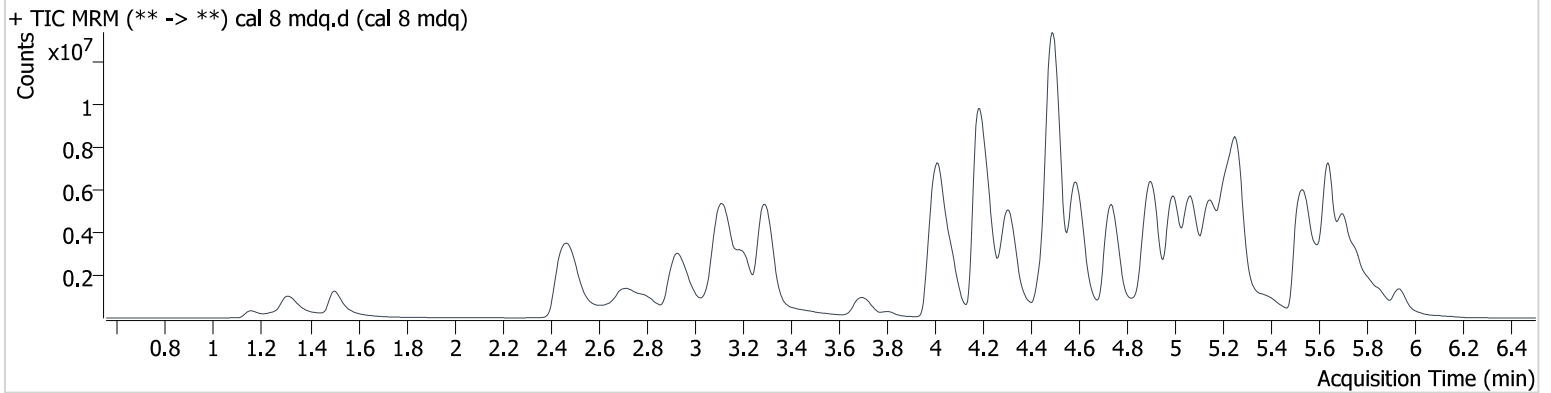
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**Calibration Last Update** 6/16/2023 9:25:00 AM

**Instrument** 69679  
**Type** Cal  
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**Sample Position** P2-H1  
**Injection Volume** 3  
**Acq. Date-Time** 6/15/2023 10:48:56 AM  
**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.
6-MAM	3.046	177852	∞	135.29	549599.6	49040	94.140 ng/ml
7-aminoclonazepam	4.191	561769	25604.5	112.52	64095.7	48612	614.830 ng/ml
a-hydroxyalprazolam	5.660	90530	2874.2	65.25	586.5	13209	753.999 ng/ml
alpha-PHP	4.869	2319289	110383.3	254.46	262214.5	417669	854.515 ng/ml
alpha-PVP	4.311	12189865	215635.1	51.88	492209.6	417669	1048.460 ng/ml
Alprazolam	5.744	2623144	∞	88.23	∞	89017	980.591 ng/ml
Amphetamine	2.939	3520958	40166.5	258.75	184633.0	240413	468.911 ng/ml
Benzoylcegonine	3.802	506838	105307.1	42.34	15197.8	17077	1025.399 ng/ml
Buprenorphine	5.856	508568	69312.0	15.60	20152.1	65135	106.949 ng/ml
Bupropion	4.735	12574447	2841069.0	67.99	399991.0	386228	945.284 ng/ml
Carisoprodol	5.705	696626	756279.5	61.23	36713.8	20707	984.072 ng/ml
Chlordiazepoxide	5.833	633370	20889.1	106.27	39537.1	133352	934.474 ng/ml
Chlorpheniramine	5.063	19304304	3475462.4	0.28	5294.4	765267	992.217 ng/ml
Citalopram	5.170	3908078	226610.7	43.79	∞	153460	988.635 ng/ml
Clonazepam	5.577	727721	∞	30.88	669223.5	13209	978.202 ng/ml
Clonazolam	5.508	795528	18668.7	38.26	∞	24432	816.296 ng/ml
Cocaine	4.215	6268504	123324.6	48.57	132363.6	492558	1015.083 ng/ml
Codeine	2.478	559248	72524.3	94.18	4723910953 50597.0	31068	854.676 ng/ml
Cyclobenzaprine	5.595	5569827	11663381.6	9.33	11511.9	157730	1030.388 ng/ml
Dextromethorphan	5.224	2680103	∞	75.17	71138.0	142225	874.728 ng/ml
Dextrorphan	4.065	6608135	308720.2	45.13	1929637.5	298443	1023.034 ng/ml
Diazepam	5.932	2235887	∞	82.51	∞	94694	1011.433 ng/ml
Dihydrocodeine	2.432	2106165	9123.0	61.90	6532.3	197356	719.327 ng/ml
Diphenhydramine	5.260	18621947	607618.5	29.12	7698440.4	681739	1144.224 ng/ml
Doxylamine	4.492	27101337	540262.6	99.19	569901.0	943828	936.466 ng/ml
Duloxetine	5.631	254811	1115.8	10.72	258.0	7603	963.252 ng/ml
EDDP	5.217	12689918	812040.9	42.65	122702.8	594820	1036.797 ng/ml
Etizolam	5.790	426663	155315.6	383.84	∞	94694	969.352 ng/ml
Fentanyl	5.067	547591	21822.9	131.85	211753.5	269175	100.290 ng/ml
Flualprazolam	5.671	690744	2846.6	94.36	1323.0	24432	935.904 ng/ml
Fluorofentanyl	5.118	702199	338084.1	110.45	11532.9	3271	116.309 ng/ml
Fluoxetine	5.703	2261284	241575.5	6.84	137397.0	69493	1024.550 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	2.921	3347398	30033.0	38.93	11084.4	204685	917.317 ng/ml
Hydromorphone	1.502	3028367	∞	73.27	∞	94133	1032.683 ng/ml
Hydroxyzine	5.696	4057967	4899807.0	122.90	1858960.2	595740	1034.817 ng/ml
Ketamine	3.984	4993361	189306.2	38.92	11830505.9	283318	833.455 ng/ml
Lamotrigine	4.233	208996	44304.0	93.39	104430.7	69493	799.594 ng/ml
Lorazepam	5.723	203872	24820.0	46.77	7977.9	14547	1287.768 ng/ml
MDA	3.075	3192865	92093.7	28.82	66512.9	130724	662.638 ng/ml
MDMA	3.202	6341571	∞	93.84	428323.4	57575	1047.778 ng/ml
Meprobamate	4.834	1163124	34951.0	32.47	8945.5	65172	585.270 ng/ml
Methadone	5.635	15661826	215245.2	44.39	135270.3	497280	1009.055 ng/ml
Methamphetamine	3.122	13222054	209831.0	37.08	176852.9	969204	657.887 ng/ml
Metoprolol	4.268	1138428	771790.8	96.74	∞	595740	850.825 ng/ml
Mirtazapine	4.584	16559280	1160242.9	48.68	355365.2	405980	912.012 ng/ml
Mitragynine	5.184	1328968	23007.9	33.86	23849.4	595740	808.951 ng/ml
Morphine	1.156	427666	169810.7	21.41	32020.4	5339	981.478 ng/ml
Norbuprenorphine	4.947	67990	35951.5	93.83	2870421.3	10143	101.718 ng/ml
Nordiazepam	5.876	750012	25417.6	61.93	8440.7	24432	968.445 ng/ml
Norfentanyl	4.030	83249	6080.1	274.22	18653.0	213058	105.449 ng/ml
Noroxycodone	2.803	1780903	91372.4	47.13	∞	50203	1127.476 ng/ml
O-desmethyl-tramadol	3.294	21484224	510677.3	5.85	383944.0	860123	980.424 ng/ml
O-Desmethylvenlafaxine	4.013	3679121	33600.3	242.03	72876.9	136731	973.146 ng/ml
Olanzapine	4.444	5382551	187719.4	47.76	2152.5	266686	582.962 ng/ml
Oxazepam	5.725	324150	∞	79.02	4882.7	14547	1001.877 ng/ml
Oxycodone	2.695	5841224	∞	29.41	∞	248960	807.268 ng/ml
Oxymorphone	1.309	4539561	∞	43.77	∞	155911	950.505 ng/ml
Phentermine	3.704	2430830	∞	9.08	1687.2	405980	749.164 ng/ml
Promethazine	5.516	11485883	∞	34.94	107691.0	491977	1070.314 ng/ml
Pseudoephedrine	2.476	15593481	∞	16.23	14822.9	595740	1024.522 ng/ml
Quetiapine	5.547	6428214	138256.9	60.92	497557.9	83257	1098.973 ng/ml
Sertraline	5.760	616582	175071.9	92.88	3436999.8	24649	1004.880 ng/ml
Temazepam	5.792	1574639	15344.4	35.17	1270.9	72443	1003.923 ng/ml
Tramadol	4.182	16282417	∞	3.16	∞	749980	892.349 ng/ml
Trazodone	5.138	6468292	∞	127.08	∞	274159	1094.995 ng/ml
Venlafaxine	4.991	14173287	25883.2	43.20	66155.8	639206	1009.003 ng/ml
Zolpidem	4.903	16244775	∞	28.72	1105056.5	703190	931.472 ng/ml