













**REVIEWED**  
By Sarah Collins at 10:46 am, Aug 29, 2023

**Worklist: 6479**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
C2023-1741	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1748	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1750	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1766	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1767	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1816	1	COBCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1821	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1874	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1875	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1890	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
C2023-1904	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2023-1906	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	

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

Extraction Date 8/24/23 Analyst: Anne Nord  
Plate lot#: 230707 Item: IDP-121-5-CDA Plate re-test: 01/07/2024

**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:** 23C57106 **Urine Blank lot** 8423

**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:

7-aminoclonazepam 5-500 cal 8 dropped due to accuracy  
 Amphetamine 5-250 cal 7 and 8 dropped due to accuracy  
 Clonazepam evaluated qualitatively due to poor peak shape (tailing) internal standard  
 Clonazolam 10-1000 poor response for qualifier ion in cal 1 ratio out.  
 Dihydrocodeine 5-500 cal 8 dropped due to accuracy  
 Duloxetine 25-1000 poor responses on cal 1 and 2 ratio out on 10 ng control.  
 Lamotrigine 5-250 cal 7 and 8 dropped due to accuracy  
 Lorazepam 25-100 cal 1 and 2 dropped due to poor response and peak shape ratios out. curve range 25-1000 lorazepam  
 Methamphetamine 5-500 cal 8 dropped due to accuracy  
 Norfentanyl 0.5-50 cal 8 dropped due to accuracy  
 Oxazepam not evaluated ratio of 10ng cal out (peak shape good)  
 Sertraline 5-250 cal 7 and 8 dropped due accuracy  
 Quetiapine

8/29/23

8/29/23

SLE and INJECTION PLATE

	1	2	3	4	5	6	7	8	9	10	11	12
A					1767-1	IS + Cal. 1	IS + QC_1	1890-1				
B					1748-1	IS + Cal. 2	IS + QC_2					
C					1816-1	IS + Cal. 3	IS + QC 3					
D					1766-1	IS + Cal. 4	IS + QC_4					
E					1874-1	IS + Cal. 5	IS + QC_2					
F					1821-1	IS + Cal. 6	1904-1					
G				negative blood	1875-1	IS + Cal. 7	1750-1					
H				negative urine	1906-1	IS + Cal. 8	1741-3					

plate position 2

c2023-\_\_\_\_-

MIXING PLATE

	1	2	3	4	5	6	7	8	9	10	11	12
A					IS + Cal. 1	IS + QC_1	1767-1	1890-1				
B					IS + Cal. 2	IS + QC_2	1748-1					
C					IS + Cal. 3	IS + QC 3	1816-1					
D					IS + Cal. 4	IS + QC 4	1766-1					
E					IS + Cal. 5	IS + QC_2	1874-1					
F					IS + Cal. 6	1904-1	1821-1					
G				negative blood	IS + Cal. 7	1750-1	1875-1					
H				negative urine	IS + Cal. 8	1741-3	1906-1					

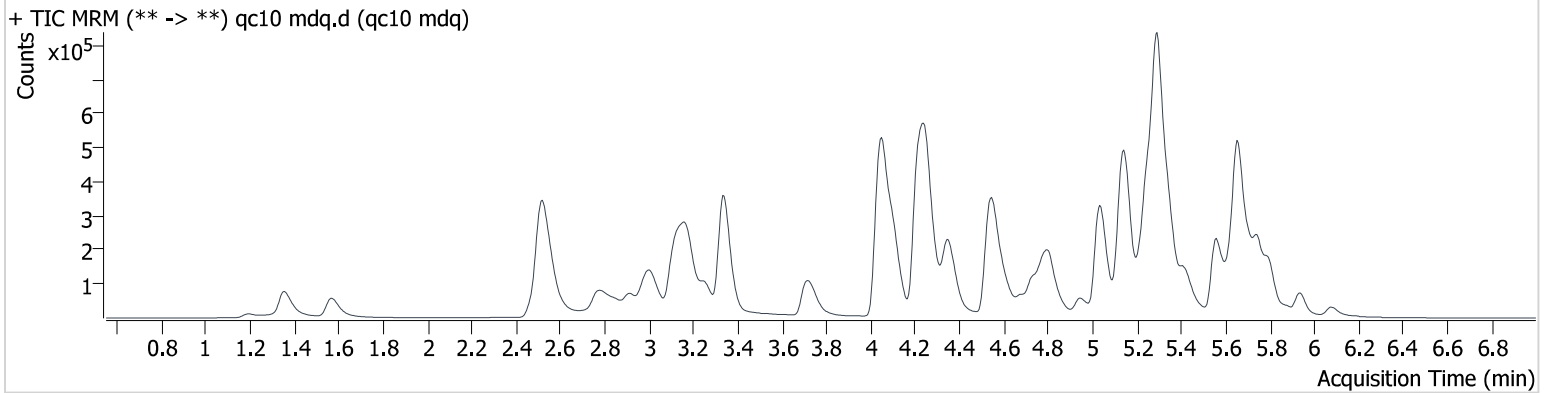
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-A7  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 4:00:18 PM  
**Sample Info.**

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

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.127	2913	∞	127.54	∞	82809	1.118 ng/ml
7-aminoclonazepam	4.237	16640	∞	109.75	1245.3	76490	10.908 ng/ml
a-hydroxyalprazolam	5.678	2172	2330.4	64.90	1363.3	13093	9.512 ng/ml
alpha-PHP	4.947	45963	1911.0	253.42	5174.6	234419	10.372 ng/ml
alpha-PVP	4.362	137185	3975.1	55.42	2088.2	574193	9.808 ng/ml
Alprazolam	5.756	41306	14450.8	91.32	2971.9	156783	10.360 ng/ml
Amphetamine	2.999	71207	2127.7	243.72	4904.7	234419	10.908 ng/ml
Benzoylcegonine	3.837	2950	174.3	43.15	81.8	10335	10.820 ng/ml
Buprenorphine	6.105	5856	348.5	17.97	78.6	87819	0.915 ng/ml
Bupropion	4.808	141698	∞	70.06	3315.8	476114	10.728 ng/ml
Carisoprodol	5.707	48835	915874.8	63.83	552.4	162286	10.786 ng/ml
Citalopram	5.228	118969	4319.6	37.19	148027.2	509205	10.512 ng/ml
Clonazepam	5.589	5125	990.0	31.78	609.7	9556	11.007 ng/ml
Clonazepam	5.530	8109	7536.2	36.24	706.4	21664	11.618 ng/ml
Cocaine	4.256	131394	6707.0	44.80	∞	970330	10.138 ng/ml
Codeine	2.564	17378	2967.8	92.73	5431.1	78937	9.755 ng/ml
Cyclobenzaprine	5.638	89868	14398.1	9.39	145.8	279679	10.104 ng/ml
Dextromethorphan	5.272	82528	7875.5	68.28	4587.3	383358	10.261 ng/ml
Dextrophan	4.110	104511	10737.9	44.14	1584.7	487663	10.429 ng/ml
Diazepam	5.944	29943	∞	82.95	1030.9	133172	10.481 ng/ml
Dihydrocodeine	2.512	43089	884.1	64.30	561.3	224626	11.206 ng/ml
Diphenhydramine	5.298	406010	35474.3	31.85	8708.1	1835425	9.925 ng/ml
Doxylamine	4.554	374995	∞	92.67	15080.4	1125767	10.442 ng/ml
Duloxetine	5.658	7201	97.4	6.00 <b>Low</b>	∞	21964	10.942 ng/ml
EDDP	5.256	149250	10026.1	41.39	4774.3	680267	10.639 ng/ml
Etizolam	5.802	5299	1790.5	416.28	1793.6	133172	11.248 ng/ml
Fentanyl	5.161	11562	638.0	134.81	1407.0	527102	1.052 ng/ml
Fluorofentanyl	5.222	9634	5211.4	119.00	569.2	5658	0.966 ng/ml
Fluoxetine	5.720	52603	5235.0	7.75	2333.5	200046	9.549 ng/ml
Hydrocodone	3.012	42746	6412.1	36.98	1294.6	247885	10.530 ng/ml
Hydromorphone	1.577	45517	6914.8	73.72	1049.5	146115	10.096 ng/ml
Hydroxyzine	5.744	127874	2097.5	113.59	120675.7	1063240	9.495 ng/ml
Ketamine	4.076	82312	∞	38.21	3547.1	374297	9.912 ng/ml



# AM #28 Multi-Drug Quant. Results

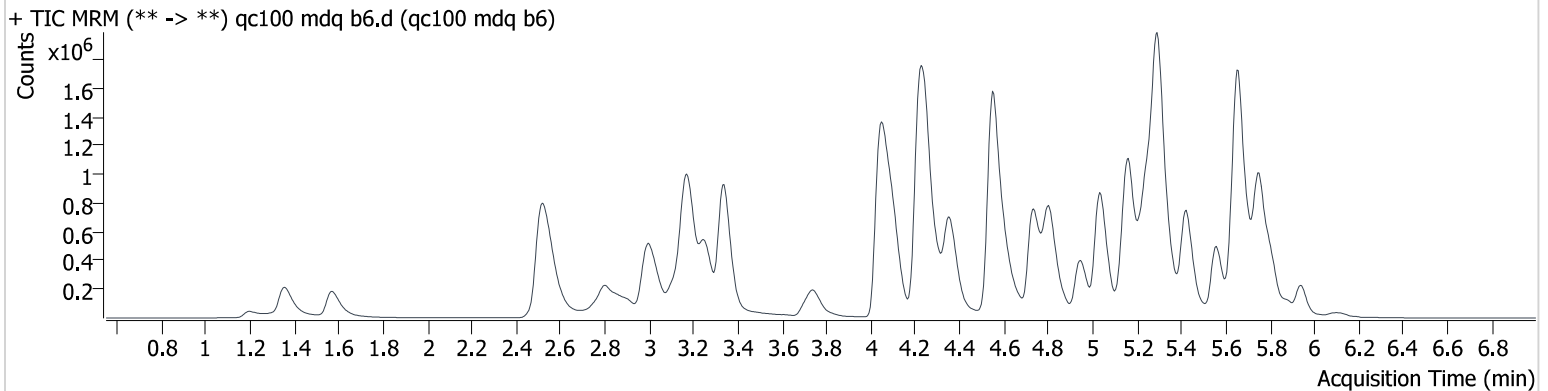
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.295	8307	1807.1	98.74	893.3	234419	10.760 ng/ml
Lorazepam	5.730	3391	310.1	33.45	∞	21130	8.306 ng/ml
MDA	3.166	105838	9855.3	31.77	∞	394311	10.739 ng/ml
MDMA	3.257	101116	9011.2	96.26	8519.4	103143	10.047 ng/ml
Meprobamate	4.871	8831	1162.2	46.02	426.2	34714	9.983 ng/ml
Methadone	5.663	228793	12032.2	50.23	62485.2	855578	9.953 ng/ml
Methamphetamine	3.182	293444	4634.0	35.74	∞	684308	11.713 ng/ml
Metoprolol	4.308	38928	10523.0	94.31	∞	394311	10.724 ng/ml
Mirtazapine	4.730	203382	28542.3	51.19	4786.7	1063240	9.895 ng/ml
Mitragynine	5.294	46693	∞	30.25	∞	1063240	9.628 ng/ml
Morphine	1.201	7948	∞	17.64	∞	10876	9.159 ng/ml
Norbuprenorphine	5.000	1696	419.3	110.23	68.3	20911	0.996 ng/ml
Nordiazepam	5.883	7065	2095.3	57.43	3909.6	21664	10.738 ng/ml
Norfentanyl	4.066	6213	652.7	33.03	397.8	767409	1.005 ng/ml
Norhydrocodone	3.043	8164	∞	26.50	∞	94649	9.123 ng/ml
Noroxycodone	2.874	32209	∞	50.41	∞	109846	9.946 ng/ml
O-desmethyl-tramadol	3.344	257572	47083.7	6.86	3158.5	1031267	10.539 ng/ml
O-Desmethylvenlafaxine	4.048	70766	806.2	532.55	8361.1	240120	10.339 ng/ml
Olanzapine	4.744	70582	4236.8	48.76	258.8	184036	9.530 ng/ml
Oxycodone	2.807	84916	2995.3	27.65	2352.2	295101	10.786 ng/ml
Oxymorphone	1.359	73132	∞	42.37	∞	278685	10.054 ng/ml
Phentermine	3.749	34066	2619.5	10.73	176.4	408091	10.381 ng/ml
Promethazine	5.559	105597	5558.6	41.59	∞	552963	9.747 ng/ml
Pseudoephedrine	2.531	249497	366613.7	17.90	6704.4	1063240	10.019 ng/ml
Quetiapine	5.640	182971	18259.5	61.67	13124.9	274136	10.582 ng/ml
Sertraline	5.798	8237	204.5	121.76	330.7	41210	9.855 ng/ml
Temazepam	5.804	34068	1717.9	32.39	69.5	150555	9.953 ng/ml
Tramadol	4.228	235258	4507.7	4.24	538.1	1187868	10.251 ng/ml
Trazodone	5.415	124330	15439.4	140.78	9945.2	648206	10.694 ng/ml
Venlafaxine	5.034	191726	2923.4	36.98	877.6	1002799	10.419 ng/ml
Zolpidem	5.156	265975	33091.6	30.98	1730.5	1107189	10.335 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc100 mdq b6.d
<b>Type</b>	QC	<b>Sample</b>	qc100 mdq b6
<b>Acq. Method</b>	mdqp1 72723.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B7	<b>Comment</b>	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.
<b>Injection Volume</b>	3		
<b>Acq. Date-Time</b>	8/24/2023 7:03:05 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.122	22962	∞	142.23	∞	71132	10.254 ng/ml
7-aminoclonazepam	4.237	113794	1900.5	109.00	7142.8	54402	110.909 ng/ml
a-hydroxyalprazolam	5.683	19944	∞	60.08	6490.6	10601	91.402 ng/ml
alpha-PHP	4.947	409586	148020.1	249.19	624964.4	178333	117.771 ng/ml
alpha-PVP	4.362	1183278	277094.3	57.63	40142.3	493909	96.860 ng/ml
Alprazolam	5.756	349396	24542.3	89.25	∞	116913	112.539 ng/ml
Amphetamine	2.994	446162	16046.4	286.88	∞	178333	103.750 ng/ml
Benzoylcegonine	3.827	27656	3497.6	40.89	6815.6	9941	102.699 ng/ml
Buprenorphine	6.121	51284	3548.1	16.47	1657.2	70102	10.412 ng/ml
Bupropion	4.808	1255468	∞	70.38	21649.9	442248	101.218 ng/ml
Carisoprodol	5.707	360481	890613.7	62.89	6337.4	124833	101.911 ng/ml
Citalopram	5.223	879972	107651.2	40.44	3785285.5	400004	99.953 ng/ml
Clonazepam	5.589	45717	4551.0	36.90	6606.1	7794	104.648 ng/ml
Clonazepam	5.530	77910	25755.2	34.76	14082.5	20984	95.270 ng/ml
Cocaine	4.251	1100925	161315.3	45.53	1282805.6	838656	98.323 ng/ml
Codeine	2.564	125367	28254.7	93.43	16610.2	54553	93.467 ng/ml
Cyclobenzaprine	5.633	561668	224665.7	9.70	12687.7	166541	110.763 ng/ml
Dextromethorphan	5.267	621674	∞	75.88	∞	278553	106.946 ng/ml
Dextrorphan	4.105	845942	85961.2	44.94	5073412.8	403990	96.681 ng/ml
Diazepam	5.944	265654	∞	86.01	3876.5	114939	102.349 ng/ml
Dihydrocodeine	2.507	340845	3302.0	63.90	1444.9	192784	111.560 ng/ml
Diphenhydramine	5.298	2929644	1169967.6	34.85	1069597.4	1445461	91.205 ng/ml
Doxylamine	4.549	3411631	232556.0	94.45	∞	1055336	101.428 ng/ml
Duloxetine	5.658	38885	333.2	8.31	61.4	11440	108.092 ng/ml
EDDP	5.256	1018122	127024.2	42.95	∞	465367	106.763 ng/ml
Etizolam	5.802	45416	2030.9	372.90	19142.9	114939	113.450 ng/ml
Fentanyl	5.161	80310	6103.0	145.49	327142.7	391987	10.027 ng/ml
Fluorofentanyl	5.222	67934	2615.9	104.29	522.3	3369	11.168 ng/ml
Fluoxetine	5.715	299321	670160.1	6.52	14241.1	113213	98.160 ng/ml
Hydrocodone	3.007	329072	∞	39.77	2783.6	209756	97.685 ng/ml
Hydromorphone	1.572	370541	∞	71.97	6757.8	121202	100.027 ng/ml
Hydroxyzine	5.749	971533	407615.6	111.19	45436.4	893730	88.459 ng/ml
Ketamine	4.076	643788	∞	38.05	3420.4	280434	102.464 ng/ml



# AM #28 Multi-Drug Quant. Results

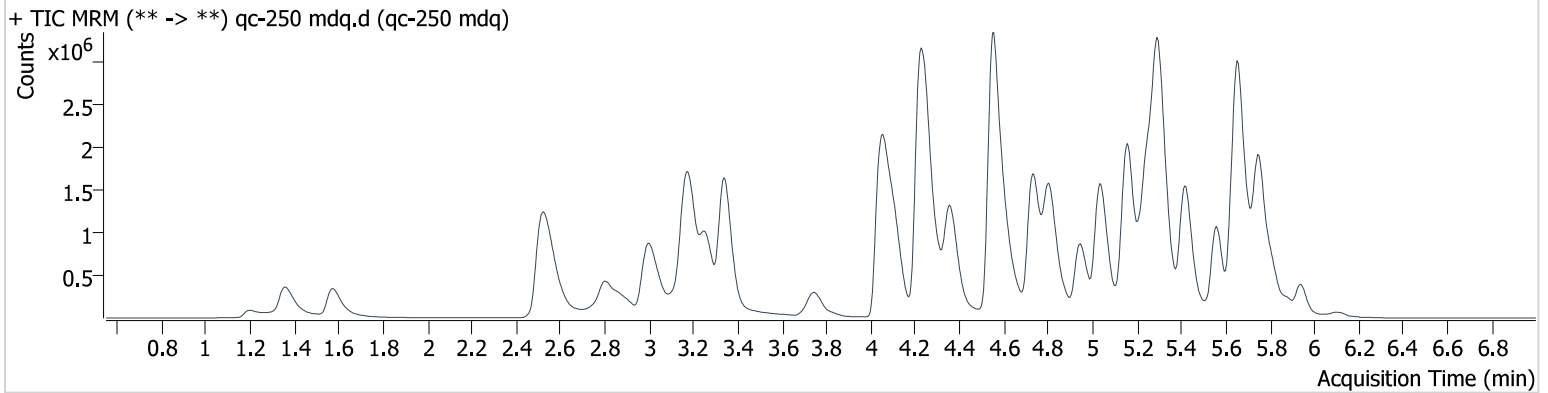
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.295	56993	5186.4	101.28	9721.3	178333	105.800 ng/ml
Lorazepam	5.735	26265	439.2	41.71	∞	17213	98.399 ng/ml
MDA	3.156	716634	60282.2	30.76	3543.1	260754	118.941 ng/ml
MDMA	3.257	857232	∞	96.63	136320.1	89044	98.019 ng/ml
Meprobamate	4.871	81352	15020.8	44.61	3711.7	31998	94.766 ng/ml
Methadone	5.663	1881153	4220533.1	48.63	161427.4	700611	99.917 ng/ml
Methamphetamine	3.177	1679435	∞	38.02	406440.4	638587	99.832 ng/ml
Metoprolol	4.308	278967	∞	101.09	∞	260754	111.233 ng/ml
Mirtazapine	4.730	1684218	87205.3	51.81	∞	893730	96.521 ng/ml
Mitragynine	5.294	338265	∞	33.47	140026.7	893730	80.979 ng/ml
Morphine	1.201	71027	∞	19.23	∞	9168	101.060 ng/ml
Norbuprenorphine	4.995	11307	1466.6	99.74	647.6	17344	11.115 ng/ml
Nordiazepam	5.883	64240	32991.2	61.38	9479.4	20984	101.144 ng/ml
Norfentanyl	4.056	42716	1307.1	31.46	659.7	584837	10.148 ng/ml
Norhydrocodone	3.033	77592	∞	27.91	∞	85324	87.903 ng/ml
Noroxycodone	2.869	255577	∞	50.39	∞	84772	98.994 ng/ml
O-desmethyl-tramadol	3.338	2281399	354562.4	6.93	22162.4	951273	101.964 ng/ml
O-Desmethylvenlafaxine	4.043	569904	2314.5	511.57	123814.0	194844	108.247 ng/ml
Olanzapine	4.739	359843	19441.1	46.77	780.4	94458	100.631 ng/ml
Oxycodone	2.802	673445	86091.0	28.76	10689.4	253685	100.430 ng/ml
Oxymorphone	1.354	617469	∞	42.82	∞	234602	101.962 ng/ml
Phentermine	3.749	273892	2532.8	9.80	917.7	355623	103.635 ng/ml
Promethazine	5.559	772348	∞	40.91	26978.9	387801	98.180 ng/ml
Pseudoephedrine	2.526	2097228	∞	17.29	∞	893730	100.659 ng/ml
Quetiapine	5.640	1377614	∞	60.52	196223.4	226963	103.195 ng/ml
Sertraline	5.793	40620	6073.3	111.84	4209.9	18633	104.863 ng/ml
Temazepam	5.809	260158	8735.8	30.81	4262.1	105212	108.151 ng/ml
Tramadol	4.223	1985328	∞	4.01	35177.5	1011454	105.903 ng/ml
Trazodone	5.420	965596	∞	144.42	3381219.4	538803	100.423 ng/ml
Venlafaxine	5.034	1761846	51356.3	36.75	14380.0	891082	97.735 ng/ml
Zolpidem	5.167	2322859	1376427.1	30.32	∞	989324	105.463 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc-250 mdq.d
<b>Type</b>	QC	<b>Sample</b>	qc-250 mdq
<b>Acq. Method</b>	mdqp1 72723.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-C7	<b>Comment</b>	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.
<b>Injection Volume</b>	3		
<b>Acq. Date-Time</b>	8/24/2023 4:09:00 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.122	50600	119757.2	139.90	279505.6	63950	25.134 ng/ml
7-aminoclonazepam	4.237	188027	7671.6	111.80	8634.4	41622	240.340 ng/ml
a-hydroxyalprazolam	5.683	35857	1648.3	67.13	3285.0	7153	240.904 ng/ml
alpha-PHP	4.947	898808	98400.4	252.30	72699.6	157998	291.186 ng/ml
alpha-PVP	4.362	2687623	1036626.2	55.25	49480.2	444482	244.215 ng/ml
Alprazolam	5.756	629366	22642.2	90.05	104236.3	85647	276.016 ng/ml
Amphetamine	2.994	860917	144645.0	243.91	236532.5	157998	228.225 ng/ml
Benzoylcegonine	3.827	66412	8027.4	41.32	21186.1	9348	261.793 ng/ml
Buprenorphine	6.110	127765	7350.8	14.87	4897.7	71679	25.422 ng/ml
Bupropion	4.808	2789483	57443387.2	69.56	235102.8	387334	256.577 ng/ml
Carisoprodol	5.707	660708	∞	64.76	∞	93602	248.842 ng/ml
Citalopram	5.223	1666516	48228.9	40.25	160827.1	294392	257.384 ng/ml
Clonazepam	5.589	98219	25601.9	32.72	1714.8	6427	270.097 ng/ml
Clonazepam	5.530	164839	20311.1	38.31	3065.5	15544	267.952 ng/ml
Cocaine	4.256	2277715	119183.1	44.40	97183.8	688283	247.872 ng/ml
Codeine	2.569	237446	79551.1	94.61	11428.2	36685	261.642 ng/ml
Cyclobenzaprine	5.633	1229650	∞	9.28	30108.6	158842	254.888 ng/ml
Dextromethorphan	5.267	1209088	188138.8	76.66	27498.5	220974	262.283 ng/ml
Dextrophan	4.110	1762936	614327.3	45.80	188516.8	335526	241.698 ng/ml
Diazepam	5.944	520316	10651.4	85.71	3050.8	92713	247.691 ng/ml
Dihydrocodeine	2.507	656959	1275.3	65.10	957.1	177940	234.059 ng/ml
Diphenhydramine	5.298	6270725	1160248.9	31.74	90125.5	1112977	253.596 ng/ml
Doxylamine	4.554	7928235	328518.7	95.04	∞	996513	249.636 ng/ml
Duloxetine	5.663	83170	1017.2	10.30	126.5	10906	241.806 ng/ml
EDDP	5.256	2773604	1249778.4	43.40	275701.7	539305	251.075 ng/ml
Etizolam	5.802	83019	6396.2	391.04	∞	92713	257.347 ng/ml
Fentanyl	5.161	175467	8905.3	143.54	13552.1	338237	25.426 ng/ml
Fluorofentanyl	5.222	145461	124037.4	104.30	1342.0	2998	26.836 ng/ml
Fluoxetine	5.715	670701	35801.7	6.81	31315.2	106190	234.827 ng/ml
Hydrocodone	3.007	723894	∞	39.35	∞	192511	234.463 ng/ml
Hydromorphone	1.577	789357	∞	71.79	∞	104488	247.328 ng/ml
Hydroxyzine	5.749	1985415	1134555.3	111.93	137107.7	713753	226.869 ng/ml
Ketamine	4.076	1157252	∞	38.93	23851.1	202861	254.459 ng/ml





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.295	98351	10428.4	99.25	15411.4	157998	207.109 ng/ml
Lorazepam	5.730	50035	∞	38.25	655.5	13621	240.078 ng/ml
MDA	3.151	1086981	362767.6	32.79	∞	201242	234.696 ng/ml
MDMA	3.257	1764289	219853.9	97.10	145329.4	70824	253.518 ng/ml
Meprobamate	4.871	174661	22996.6	46.82	1836.1	27330	237.369 ng/ml
Methadone	5.663	3911036	54163.8	49.73	483552.6	603497	241.160 ng/ml
Methamphetamine	3.177	3580365	689542.8	37.55	10888.7	588117	238.266 ng/ml
Metoprolol	4.314	529426	60471.9	96.38	∞	201242	272.787 ng/ml
Mirtazapine	4.730	3510665	753825.2	50.46	865154.1	713753	251.749 ng/ml
Mitragynine	5.300	737473	38899.0	32.22	∞	713753	220.609 ng/ml
Morphine	1.201	159201	∞	17.64	∞	8293	251.024 ng/ml
Norbuprenorphine	4.990	22315	3721.0	103.49	6312.5	14915	26.078 ng/ml
Nordiazepam	5.883	128457	35043.7	61.91	16217.9	15544	273.102 ng/ml
Norfentanyl	4.061	72238	119405.7	29.12	1311.1	419248	24.122 ng/ml
Norhydrocodone	3.043	161159	∞	29.21	∞	70937	218.304 ng/ml
Noroxycodone	2.874	539454	∞	48.29	∞	69113	255.733 ng/ml
O-desmethyl-tramadol	3.343	5048319	472609.4	6.79	30393.8	856059	250.854 ng/ml
O-Desmethylvenlafaxine	4.048	1046965	21709.6	519.97	187032.5	150233	258.783 ng/ml
Olanzapine	4.734	1452641	42436.0	46.02	47803.8	169364	227.401 ng/ml
Oxycodone	2.802	1578652	170337.0	29.05	25341.8	240137	248.870 ng/ml
Oxymorphone	1.359	1323508	∞	43.15	∞	205138	250.119 ng/ml
Phentermine	3.754	556397	10799.0	9.17	2066.0	307373	244.866 ng/ml
Promethazine	5.559	2061208	868217.6	40.39	76969.3	415021	244.284 ng/ml
Pseudoephedrine	2.526	4130655	∞	17.57	∞	713753	248.323 ng/ml
Quetiapine	5.640	2564300	1814575.1	60.05	4787982.8	194444	225.222 ng/ml
Sertraline	5.798	85367	14968.8	113.26	10494.8	17942	228.558 ng/ml
Temazepam	5.809	468690	7644.2	31.51	4333.4	80638	254.133 ng/ml
Tramadol	4.223	4325985	∞	3.97	∞	887372	263.745 ng/ml
Trazodone	5.415	2138970	∞	143.72	1739703.9	486262	246.578 ng/ml
Venlafaxine	5.034	3887849	160179.9	36.54	66505.7	791185	241.309 ng/ml
Zolpidem	5.162	5074321	202335.8	30.52	231786.9	911119	250.855 ng/ml

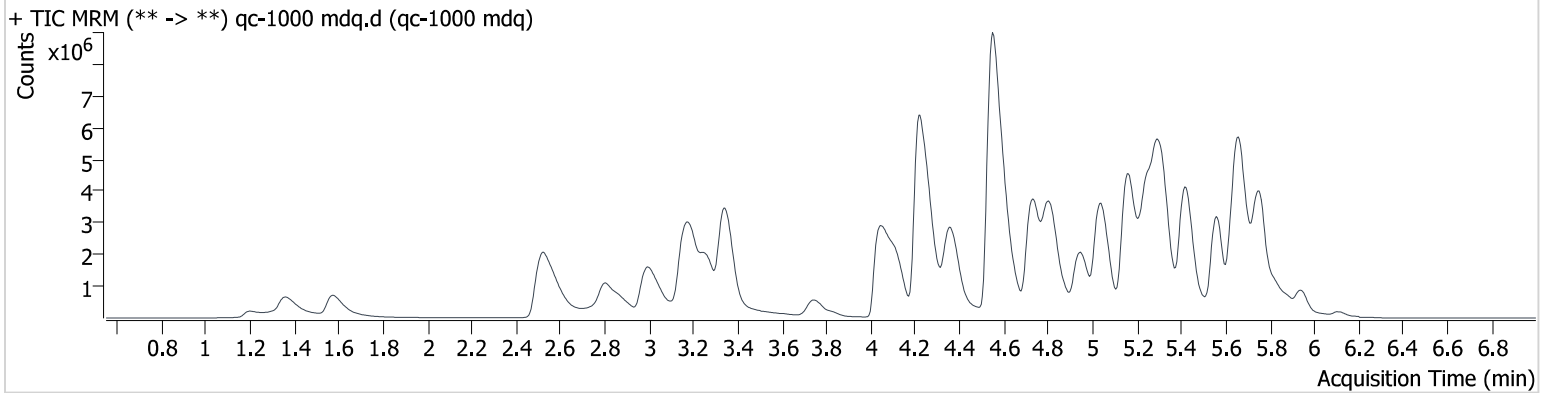
# AM #28 Multi-Drug Quant. Results

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**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-D7  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 4:17:42 PM  
**Sample Info.**

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

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.117	119063	593860.0	140.11	436012.8	37968	99.612 ng/ml
7-aminoclonazepam	4.237	242537	35772.5	108.13	9451.2	17463	740.340 ng/ml
a-hydroxyalprazolam	5.688	68743	1139.1	52.46	1588.9	3101	1060.040 ng/ml
alpha-PHP	4.947	2308419	143118.0	256.89	∞	118125	999.453 ng/ml
alpha-PVP	4.362	7168449	1254835.4	54.88	1079029.7	287796	1005.487 ng/ml
Alprazolam	5.762	939420	∞	90.40	8315.8	34021	1035.872 ng/ml
Amphetamine	2.984	1643446	207370.1	248.27	273706.3	118125	585.718 ng/ml
Benzoylcegonine	3.827	254394	414585.0	41.88	12809.5	8875	1055.248 ng/ml
Buprenorphine	6.110	454036	22825.8	14.40	8963.3	62625	103.518 ng/ml
Bupropion	4.808	7371524	∞	67.20	1140705.1	260547	1007.594 ng/ml
Carisoprodol	5.707	1042241	∞	61.17	57889.9	38446	955.156 ng/ml
Citalopram	5.218	3127822	206836.6	40.70	17474766.9	144510	984.436 ng/ml
Clonazepam	5.594	243886	48457.1	33.12	24097.2	3929	1092.404 ng/ml
Clonazepam	5.525	444510	49104.0	38.42	23748.6	10233	1090.707 ng/ml
Cocaine	4.261	4931622	431628.3	43.86	498909.4	368013	1003.754 ng/ml
Codeine	2.574	484718	∞	93.51	∞	17157	1139.042 ng/ml
Cyclobenzaprine	5.628	2945307	1681625.5	9.60	11065.3	102696	945.642 ng/ml
Dextromethorphan	5.267	2364839	323315.4	74.52	∞	108528	1044.693 ng/ml
Dextrorphan	4.115	4003158	369084.8	45.41	∞	186037	987.998 ng/ml
Diazepam	5.944	1280156	73992.8	83.97	24953.3	55292	1020.031 ng/ml
Dihydrocodeine	2.502	1434421	10964.9	64.91	1049.6	132793	686.736 ng/ml
Diphenhydramine	5.309	12962195	∞	26.39	68350.1	545164	1070.302 ng/ml
Doxylamine	4.549	23616627	364662.6	98.55	144660.1	764274	969.605 ng/ml
Duloxetine	5.674	156775	3154.8	9.48	119.8	4801	1033.510 ng/ml
EDDP	5.256	9096840	1810739.7	43.11	187232.0	428751	1036.038 ng/ml
Etizolam	5.802	179629	∞	385.88	24194.3	55292	934.203 ng/ml
Fentanyl	5.166	421759	31214.1	145.33	34650.7	234187	88.329 ng/ml
Fluorofentanyl	5.217	347618	2413.8	103.62	39923.0	1886	101.904 ng/ml
Fluoxetine	5.715	2021827	106247.7	6.56	∞	77978	964.739 ng/ml
Hydrocodone	3.002	1961098	∞	40.17	∞	136240	898.193 ng/ml
Hydromorphone	1.577	1925636	∞	71.95	∞	64636	975.685 ng/ml
Hydroxyzine	5.749	4263842	861.7	115.88	2341223.0	387486	898.435 ng/ml
Ketamine	4.076	1803976	84748.0	38.93	15113.2	76299	1054.302 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Lamotrigine	4.295	143405	16240.1	95.88	19638.0	118125	404.959	ng/ml
Lorazepam	5.730	113593	31810.8	42.87	1226.2	8107	922.249	ng/ml
MDA	3.141	1629572	157529.7	29.67	∞	88463	802.759	ng/ml
MDMA	3.262	3849320	346818.6	94.22	651441.6	41335	947.525	ng/ml
Meprobamate	4.876	493607	241321.6	43.75	59793.2	17536	1043.596	ng/ml
Methadone	5.663	10723863	1899517.9	46.58	119706.6	396557	1006.307	ng/ml
Methamphetamine	3.182	7759878	361193.3	37.70	60918.2	478692	643.519	ng/ml
Metoprolol	4.308	901040	217666.6	92.23	∞	88463	1054.683	ng/ml
Mirtazapine	4.735	7231443	152212.0	50.93	104447.9	387486	954.900	ng/ml
Mitragynine	5.305	1834358	∞	33.29	∞	387486	1009.830	ng/ml
Morphine	1.201	404246	∞	19.53	∞	6070	871.858	ng/ml
Norbuprenorphine	4.995	51291	4176.2	102.03	7093.1	9120	99.252	ng/ml
Nordiazepam	5.888	306188	68129.7	63.99	27525.9	10233	988.967	ng/ml
Norfentanyl	4.061	83482	5123.6	31.23	1492.4	164398	71.352	ng/ml
Norhydrocodone	3.048	348080	∞	29.77	∞	40794	817.512	ng/ml
Noroxycodone	2.874	1281484	3163.3	46.31	∞	39655	1057.667	ng/ml
O-desmethyl-tramadol	3.344	13711502	248274.6	6.47	81403.2	605608	963.352	ng/ml
O-Desmethylvenlafaxine	4.038	1696845	6824.3	516.28	71965.7	66302	952.035	ng/ml
Olanzapine	4.728	5618936	168478.0	44.67	61595.3	162093	921.099	ng/ml
Oxycodone	2.802	4675573	∞	28.75	∞	182229	971.643	ng/ml
Oxymorphone	1.359	3174898	∞	42.93	∞	131718	934.779	ng/ml
Phentermine	3.749	1358537	∞	8.49	6486.0	228528	806.341	ng/ml
Promethazine	5.559	7367714	660818.6	37.64	119435.8	354843	1020.098	ng/ml
Pseudoephedrine	2.526	8900515	∞	17.08	∞	387486	985.765	ng/ml
Quetiapine	5.629	3993792	221102.5	59.93	205889.0	131174	521.094	ng/ml
Sertraline	5.804	225253	22745.7	104.15	16790.2	10109	1069.443	ng/ml
Temazepam	5.814	904358	9975.4	31.17	14971.4	35654	1108.836	ng/ml
Tramadol	4.218	9930416	∞	3.77	∞	573947	937.286	ng/ml
Trazodone	5.415	5950268	571734.9	150.30	281133.1	383807	869.204	ng/ml
Venlafaxine	5.039	10985143	476355.2	35.10	86929.9	517231	1039.392	ng/ml
Zolpidem	5.162	13579400	∞	30.17	163339.2	658594	930.086	ng/ml

# AM #28 Multi-Drug Quant. Results

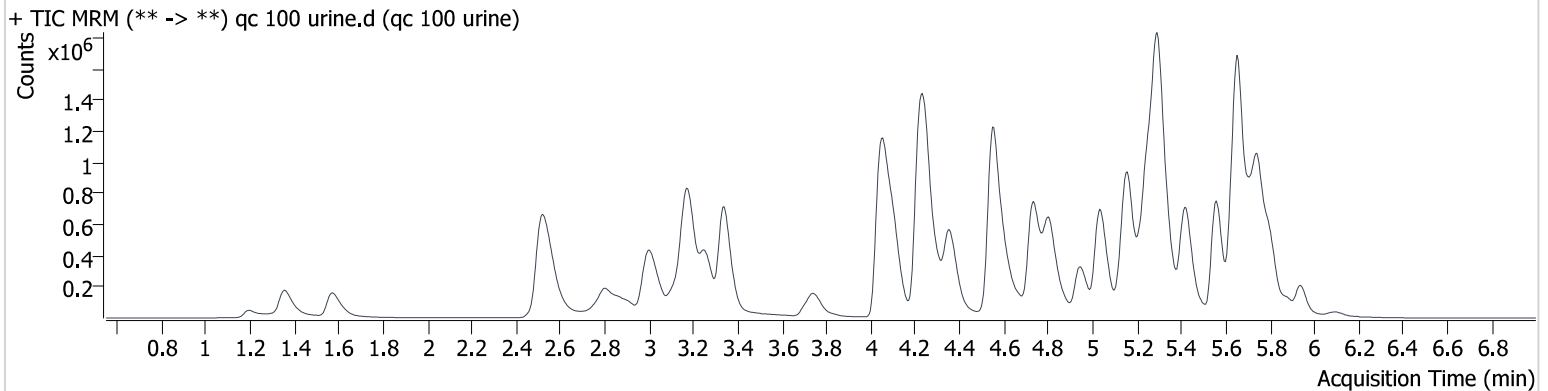
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**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-E7  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 4:35:06 PM  
**Sample Info.**

**Data File** qc 100 urine.d  
**Sample** qc 100 urine  
**Operator** Anne Nord  
**Comment**

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

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.122	19209	135396.6	138.36	14602.2	59834	10.198 ng/ml
7-aminoclonazepam	4.237	113034	8782.0	115.46	15527.3	56876	105.340 ng/ml
a-hydroxyalprazolam	5.678	14976	24332.6	57.66	333.4	6540	110.914 ng/ml
alpha-PHP	4.947	324207	38394.0	240.86	∞	164177	101.308 ng/ml
alpha-PVP	4.362	974794	115917.1	55.82	23692.0	398343	98.934 ng/ml
Alprazolam	5.756	234260	77494.5	91.79	2276.8	86411	102.134 ng/ml
Amphetamine	2.999	412488	14166.2	256.89	71959.4	164177	104.198 ng/ml
Benzoylcegonine	3.827	23659	4918.8	41.54	12608.3	8154	107.095 ng/ml
Buprenorphine	6.110	46881	1951.4	15.39	1444.0	65572	10.174 ng/ml
Bupropion	4.808	985780	41881.8	70.62	21950.1	336873	104.332 ng/ml
Carisoprodol	5.707	254463	964583.2	62.96	∞	86813	103.442 ng/ml
Citalopram	5.228	770701	70845.1	39.51	53302.6	346068	101.186 ng/ml
Clonazepam	5.594	29015	7505.3	35.19	498.4	4836	107.007 ng/ml
Clonazepam	5.530	18502	386.2	39.35	688.5	16765	29.893 ng/ml
Cocaine	4.256	855566	351829.7	45.04	21045.3	655464	97.766 ng/ml
Codeine	2.569	104878	∞	94.03	8907.9	43512	97.989 ng/ml
Cyclobenzaprine	5.633	878705	2447398.0	9.77	110033.5	278002	103.777 ng/ml
Dextromethorphan	5.267	580802	84369.5	74.76	16771.6	273920	101.601 ng/ml
Dextrorphan	4.110	698478	10308.2	47.42	50964.4	335174	96.221 ng/ml
Diazepam	5.939	229034	2381.7	85.86	∞	99044	102.401 ng/ml
Dihydrocodeine	2.507	278062	6338.3	64.04	6040.5	158440	110.731 ng/ml
Diphenhydramine	5.298	2759549	211251.5	31.96	∞	1232652	100.745 ng/ml
Doxylamine	4.554	2678567	36155.0	93.24	∞	824565	101.922 ng/ml
Duloxetine	5.658	153188	1073.0	9.48	470.1	50487	96.554 ng/ml
EDDP	5.256	1229555	95995.3	42.71	56084.2	589888	101.714 ng/ml
Etizolam	5.802	34596	13936.6	392.62	34414.7	99044	100.267 ng/ml
Fentanyl	5.161	98766	9187.7	142.22	∞	468209	10.325 ng/ml
Fluorofentanyl	5.222	89957	60019.9	108.53	3321.2	5321	9.368 ng/ml
Fluoxetine	5.715	1001910	31134.1	6.06	71085.6	339794	109.500 ng/ml
Hydrocodone	3.007	271964	∞	40.83	7302.3	168611	100.439 ng/ml
Hydromorphone	1.577	321171	3629.5	72.24	3678.1	105378	99.719 ng/ml
Hydroxyzine	5.744	953527	234614.4	111.57	27714.2	728411	106.591 ng/ml
Ketamine	4.076	526047	64596.6	38.49	5143.7	238086	98.620 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.295	48617	1166.3	101.77	5192.6	164177	97.953 ng/ml
Lorazepam	5.735	19446	1636.5	34.08	49.4	12924	96.991 ng/ml
MDA	3.161	627468	23702.2	29.56	∞	243714	111.362 ng/ml
MDMA	3.257	692650	32944.5	93.65	∞	69084	102.080 ng/ml
Meprobamate	4.871	61498	3972.1	47.45	4494.8	24904	92.059 ng/ml
Methadone	5.663	1717704	74132.4	49.51	51987.7	651959	98.044 ng/ml
Methamphetamine	3.177	1367405	33364.8	37.42	3302.6	504149	103.130 ng/ml
Metoprolol	4.308	241453	∞	97.50	18099.6	243714	103.044 ng/ml
Mirtazapine	4.730	1402629	34106.3	50.44	148827.2	728411	98.624 ng/ml
Mitragynine	5.294	381437	165248.4	31.94	173100.0	728411	111.937 ng/ml
Morphine	1.196	69589	∞	16.15	∞	9425	96.301 ng/ml
Norbuprenorphine	4.990	10647	268.5	102.19	714.0	18365	9.836 ng/ml
Nordiazepam	5.883	55675	12969.1	63.03	4243.7	16765	109.726 ng/ml
Norfentanyl	4.061	39085	829.1	31.09	1266.8	507536	10.707 ng/ml
Norhydrocodone	3.033	62333	∞	28.12	∞	68810	87.567 ng/ml
Noroxycodone	2.874	219084	∞	49.26	∞	73878	97.378 ng/ml
O-desmethyl-tramadol	3.338	1726328	60339.1	6.94	7222.6	729902	100.555 ng/ml
O-Desmethylvenlafaxine	4.048	468552	4990.0	517.02	16310.5	164956	105.104 ng/ml
Olanzapine	4.739	713164	∞	44.77	299.1	180315	104.501 ng/ml
Oxycodone	2.802	592032	22253.2	27.50	4273.0	213325	104.998 ng/ml
Oxymorphone	1.354	492489	∞	43.90	∞	194284	98.196 ng/ml
Phentermine	3.749	221075	1956.6	10.22	∞	282793	105.207 ng/ml
Promethazine	5.559	1286706	1088324.0	39.69	28854.7	652949	97.149 ng/ml
Pseudoephedrine	2.526	1715582	∞	17.50	1813491934 7164100.0	728411	101.029 ng/ml
Quetiapine	5.640	1143343	∞	60.81	55106.0	193054	100.669 ng/ml
Sertraline	5.798	201363	17459.7	114.83	766279.8	103649	93.481 ng/ml
Temazepam	5.809	229912	106590.0	33.46	∞	99514	101.054 ng/ml
Tramadol	4.223	1612086	∞	4.06	2401.3	811226	107.224 ng/ml
Trazodone	5.420	939300	∞	142.98	∞	531737	98.985 ng/ml
Venlafaxine	5.034	1384566	91173.6	36.71	9132.0	721031	94.951 ng/ml
Zolpidem	5.162	1824214	66996.9	30.37	215016.9	783108	104.629 ng/ml

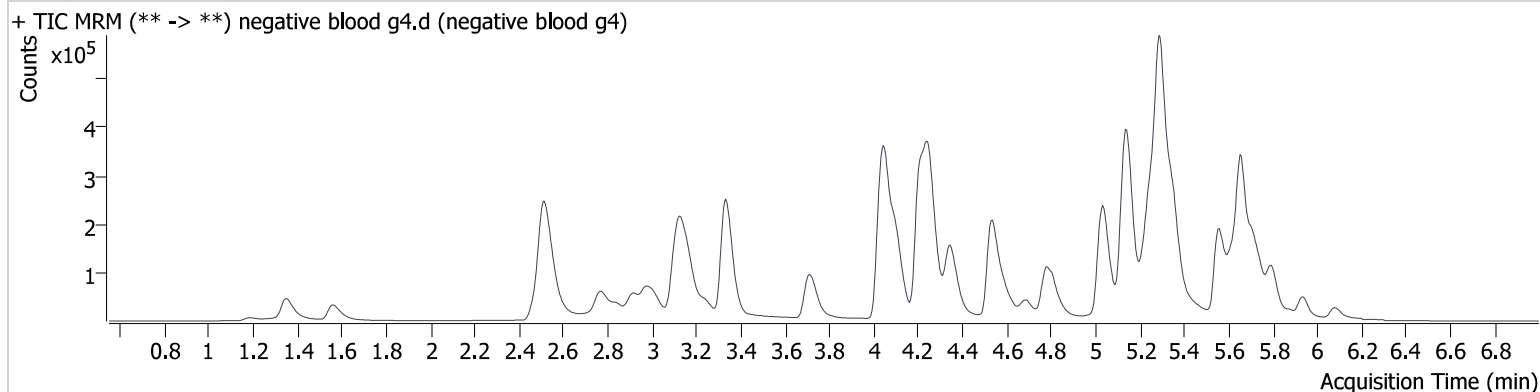
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-G4  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 4:43:49 PM  
**Sample Info.**

**Data File** negative blood g4.d  
**Sample** negative blood g4  
**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



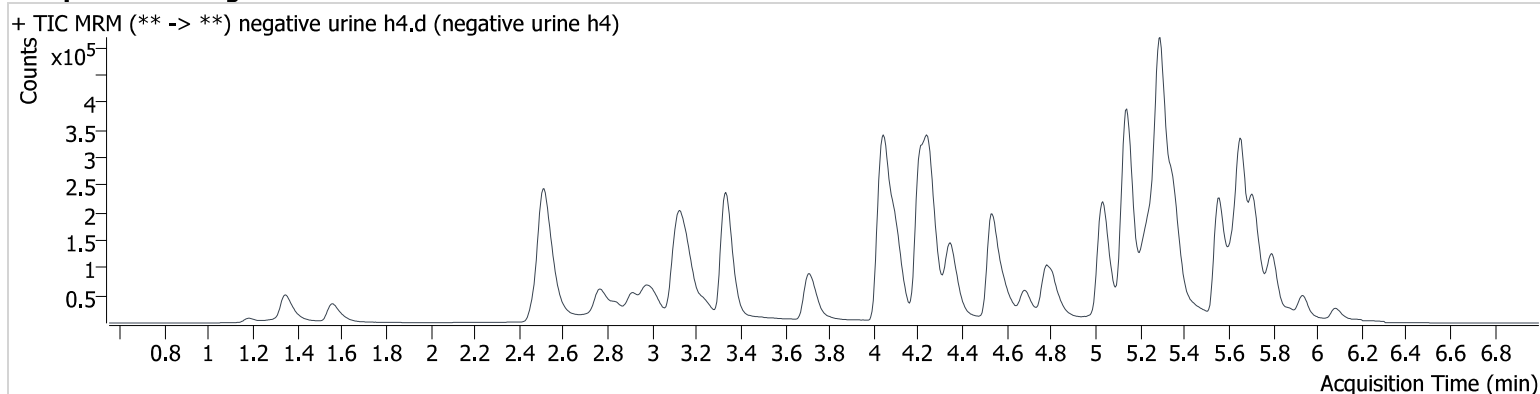
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-H4  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 6:19:31 PM  
**Sample Info.**

**Data File** negative urine h4.d  
**Sample** negative urine h4  
**Operator** Anne Nord  
**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram

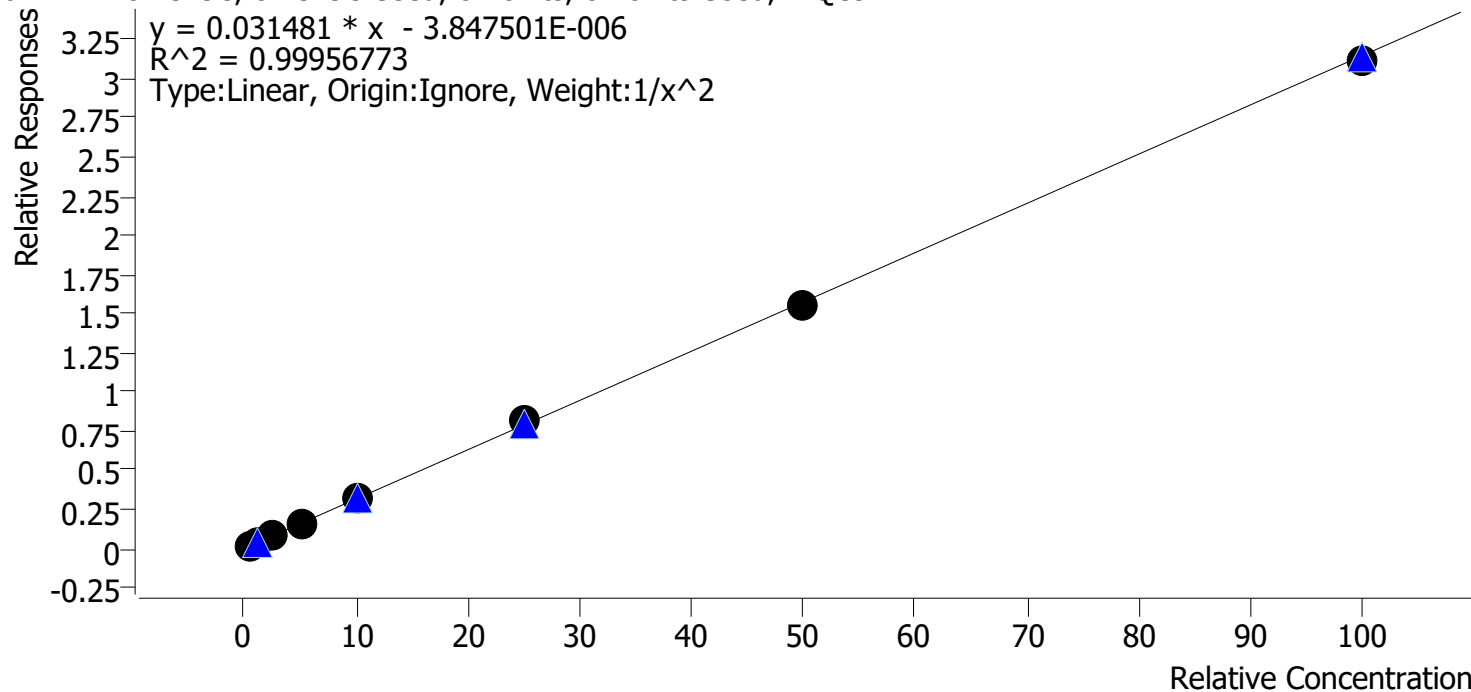


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	100.4
cal 2 mdq	2	✓	1.0	1.0	98.9
cal 3 mdq	3	✓	2.5	2.5	101.6
cal 4 mdq	4	✓	5.0	4.9	97.6
cal 5 mdq	5	✓	10.0	10.1	100.6
cal 6 mdq	6	✓	25.0	25.8	103.2
cal 7 mdq	7	✓	50.0	49.4	98.7
cal 8 mdq	8	✓	100.0	99.0	99.0

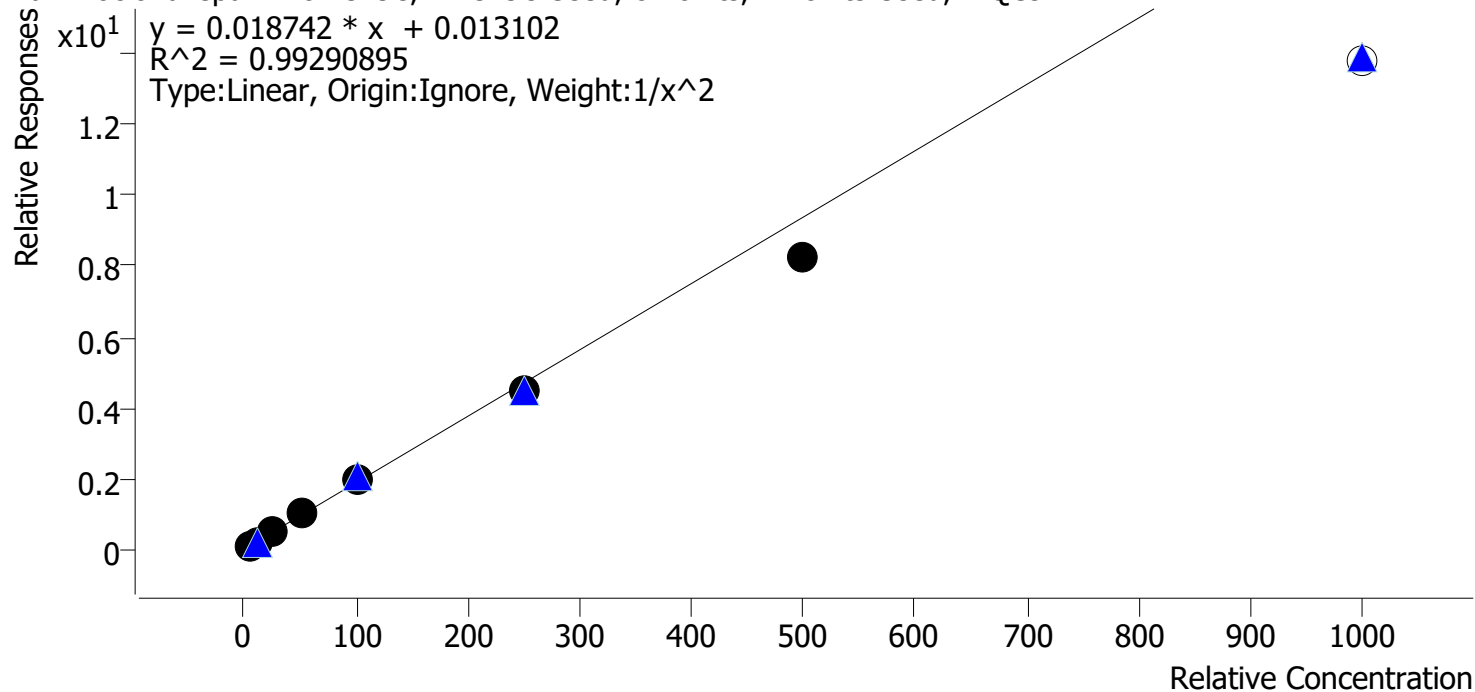


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

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

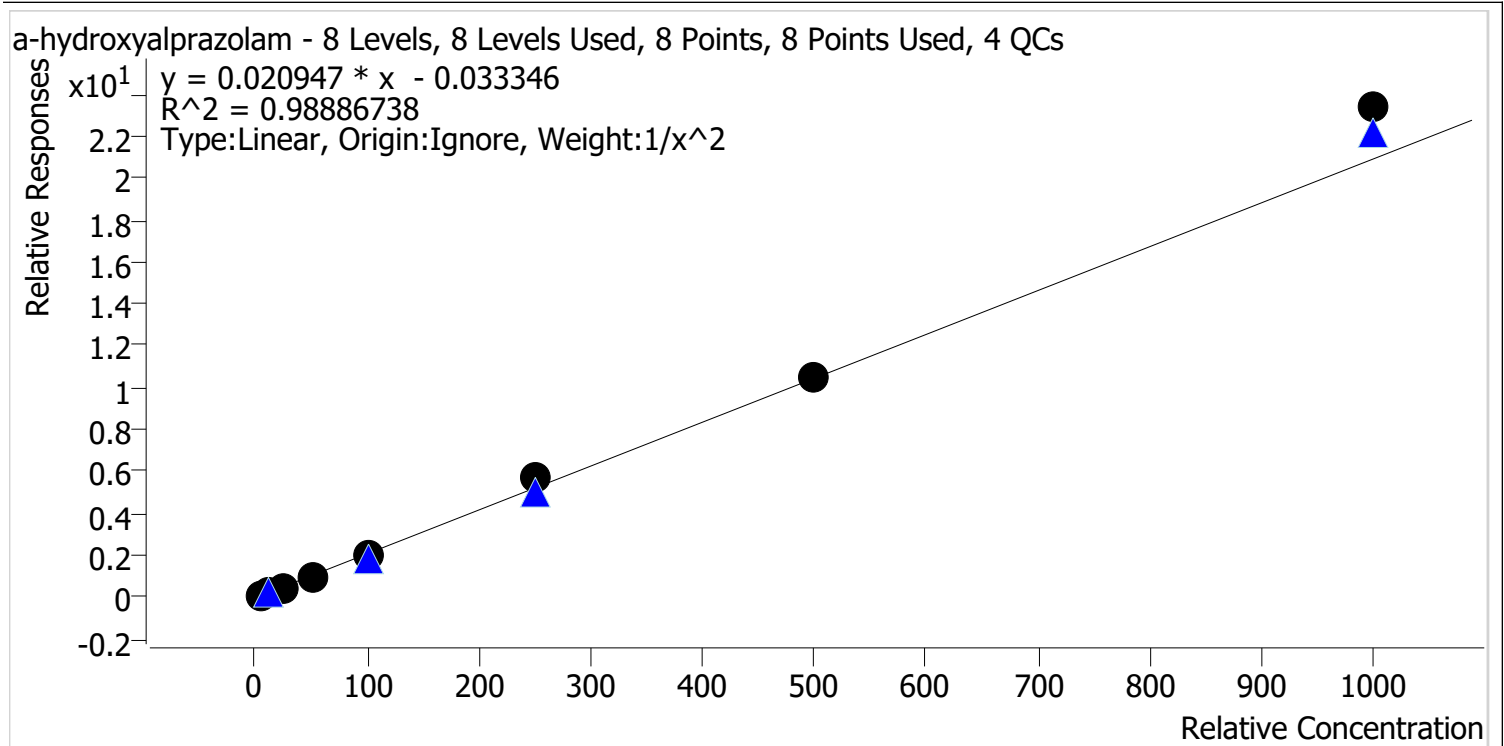


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.5
cal 2 mdq	2	✓	10.0	10.2	102.1
cal 3 mdq	3	✓	25.0	27.6	110.3
cal 4 mdq	4	✓	50.0	51.8	103.5
cal 5 mdq	5	✓	100.0	103.2	103.2
cal 6 mdq	6	✓	250.0	240.9	96.3
cal 7 mdq	7	✓	500.0	439.5	87.9
cal 8 mdq	8	✗	1000.0	734.0	73.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

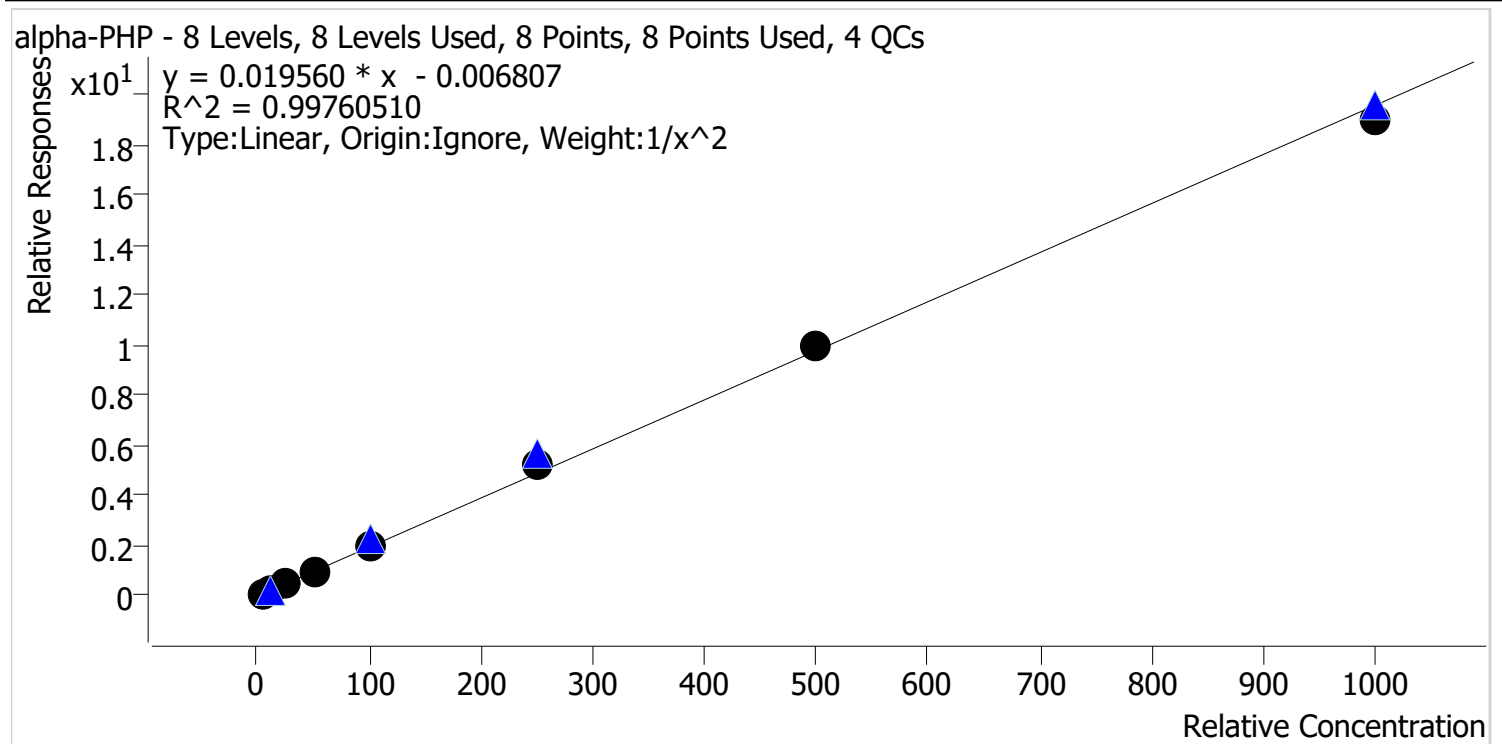


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	105.0
cal 2 mdq	2	✓	10.0	9.7	96.9
cal 3 mdq	3	✓	25.0	22.0	87.8
cal 4 mdq	4	✓	50.0	43.7	87.5
cal 5 mdq	5	✓	100.0	99.3	99.3
cal 6 mdq	6	✓	250.0	276.7	110.7
cal 7 mdq	7	✓	500.0	505.0	101.0
cal 8 mdq	8	✓	1000.0	1117.9	111.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PHP **Internal Standard** Amphetamine-D11

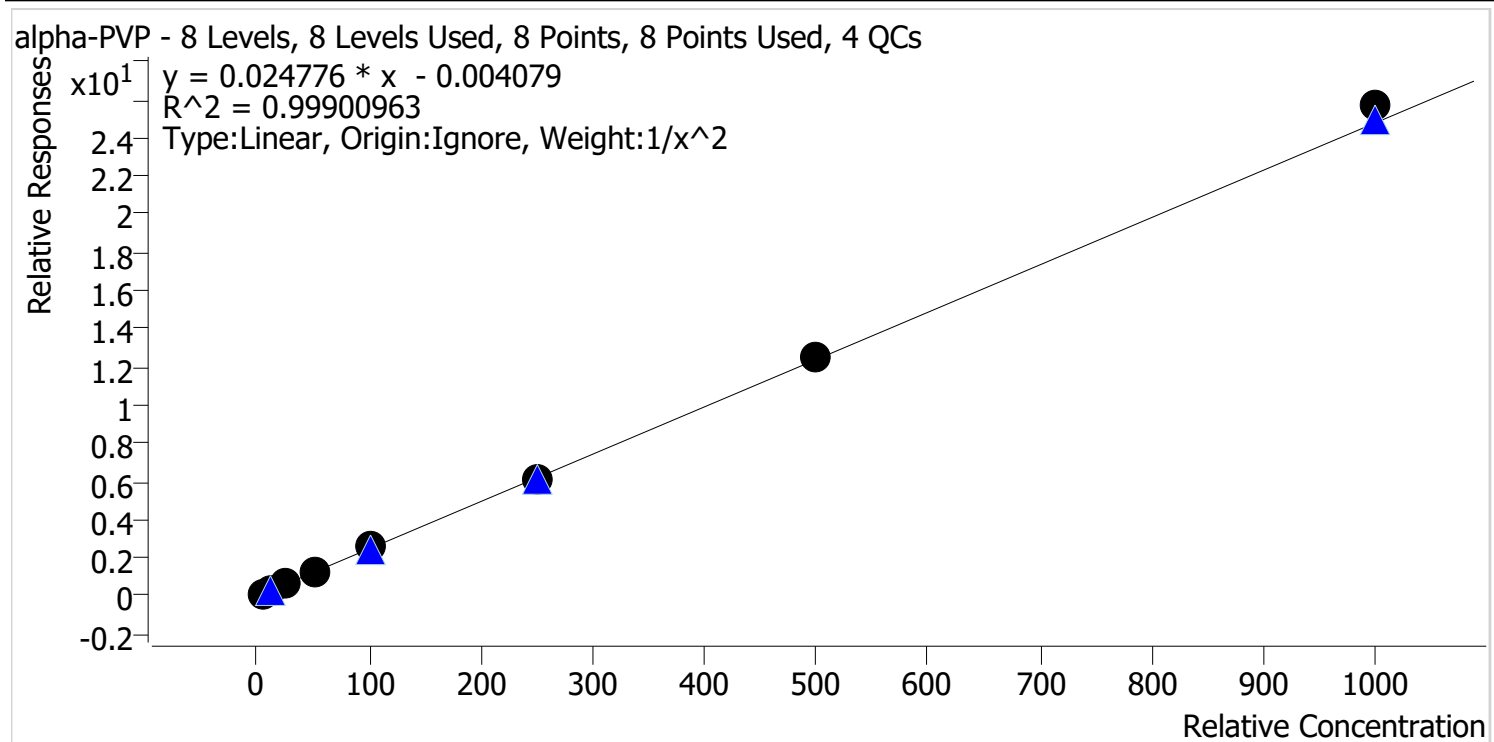


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.5
cal 2 mdq	2	✓	10.0	9.9	98.9
cal 3 mdq	3	✓	25.0	24.3	97.1
cal 4 mdq	4	✓	50.0	46.8	93.6
cal 5 mdq	5	✓	100.0	101.7	101.7
cal 6 mdq	6	✓	250.0	269.3	107.7
cal 7 mdq	7	✓	500.0	510.8	102.2
cal 8 mdq	8	✓	1000.0	973.0	97.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8



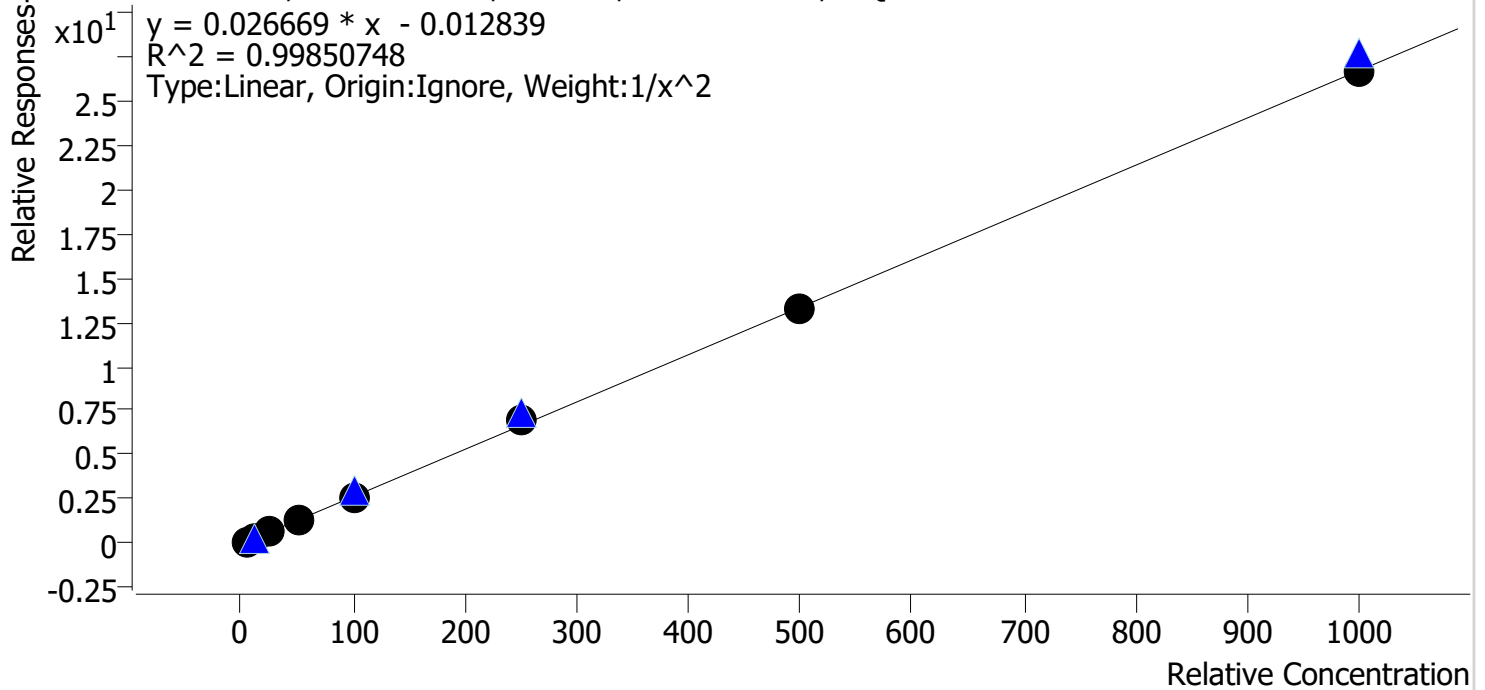
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.2
cal 2 mdq	2	✓	10.0	9.7	97.1
cal 3 mdq	3	✓	25.0	24.4	97.5
cal 4 mdq	4	✓	50.0	48.4	96.7
cal 5 mdq	5	✓	100.0	102.5	102.5
cal 6 mdq	6	✓	250.0	247.9	99.2
cal 7 mdq	7	✓	500.0	506.0	101.2
cal 8 mdq	8	✓	1000.0	1036.6	103.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

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

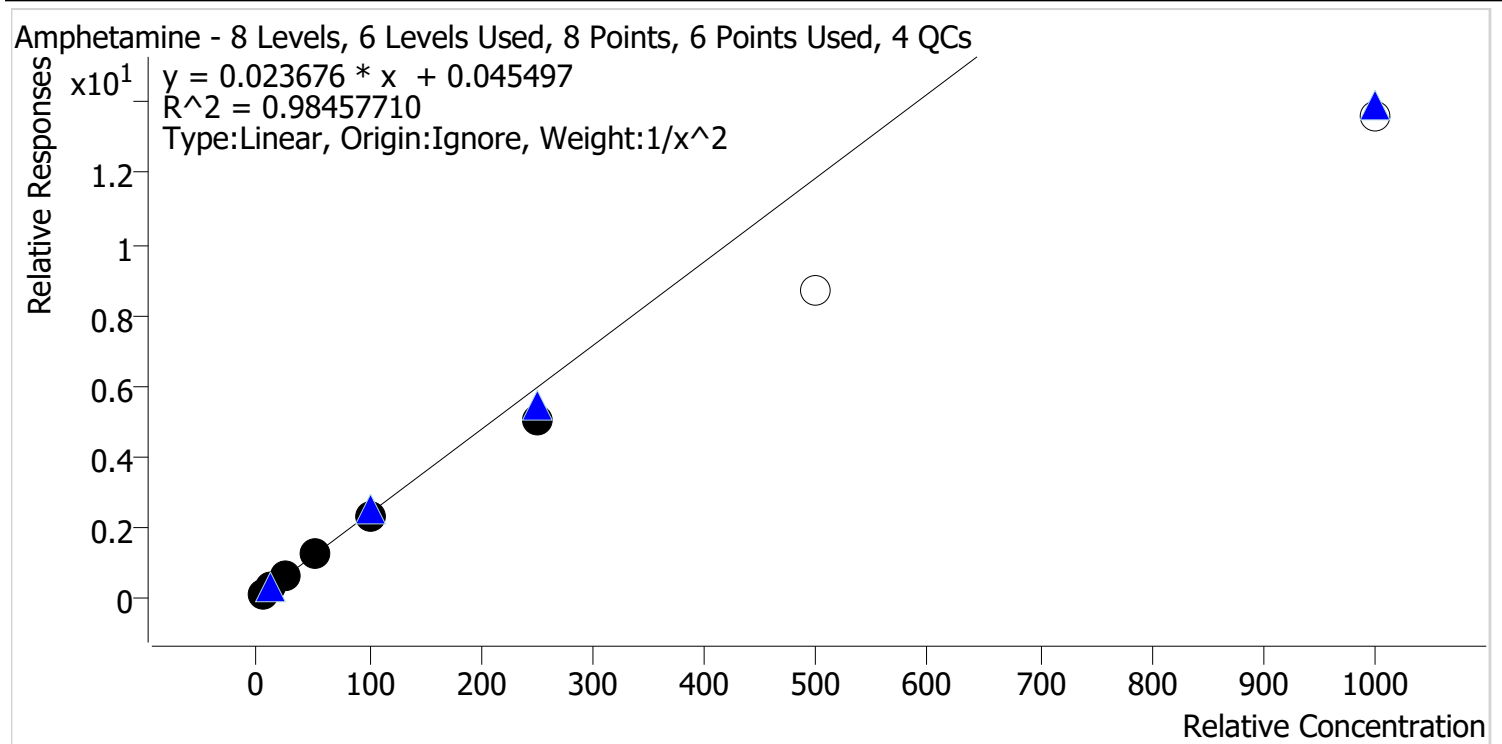


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.7
cal 2 mdq	2	✓	10.0	10.4	104.2
cal 3 mdq	3	✓	25.0	24.3	97.4
cal 4 mdq	4	✓	50.0	48.2	96.5
cal 5 mdq	5	✓	100.0	98.2	98.2
cal 6 mdq	6	✓	250.0	265.0	106.0
cal 7 mdq	7	✓	500.0	495.8	99.2
cal 8 mdq	8	✓	1000.0	998.5	99.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11



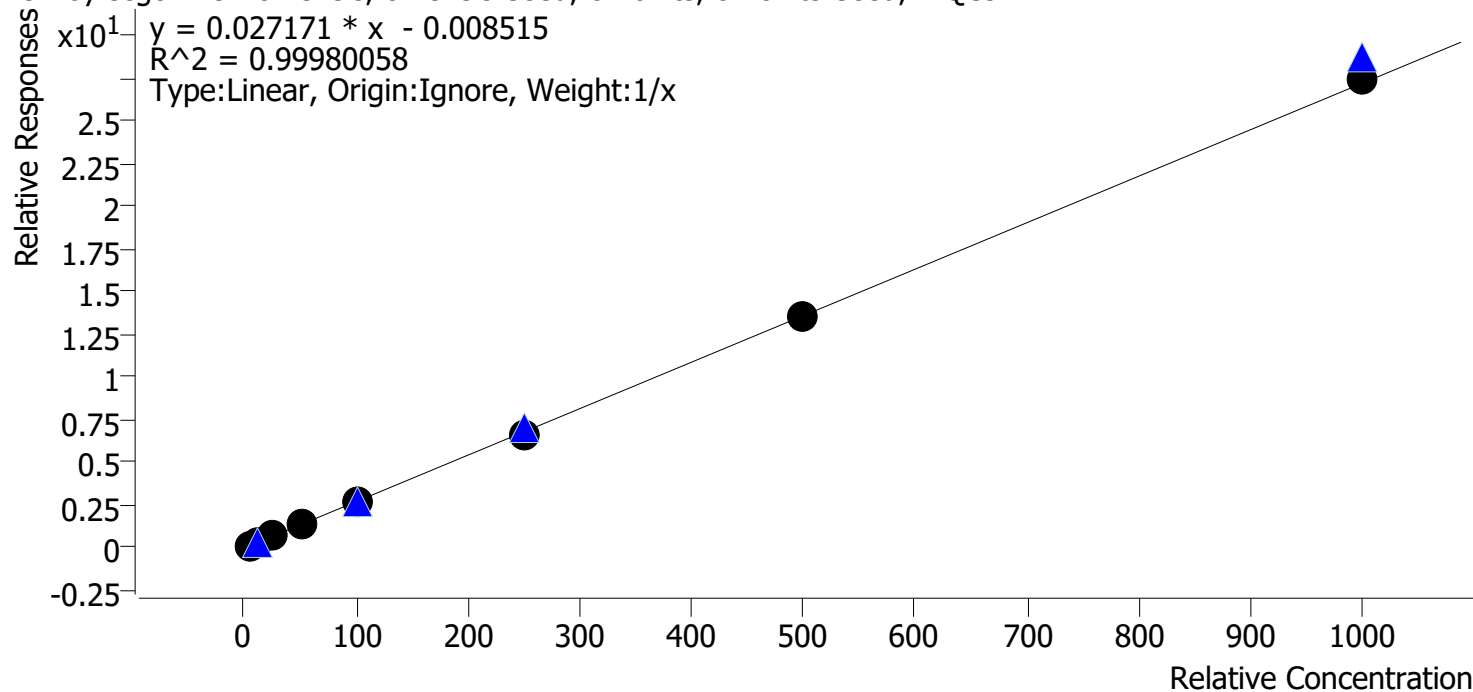
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	94.2
cal 2 mdq	2	✓	10.0	10.6	106.5
cal 3 mdq	3	✓	25.0	27.9	111.4
cal 4 mdq	4	✓	50.0	54.0	108.0
cal 5 mdq	5	✓	100.0	94.7	94.7
cal 6 mdq	6	✓	250.0	212.8	85.1
cal 7 mdq	7	✗	500.0	365.1	73.0
cal 8 mdq	8	✗	1000.0	573.6	57.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



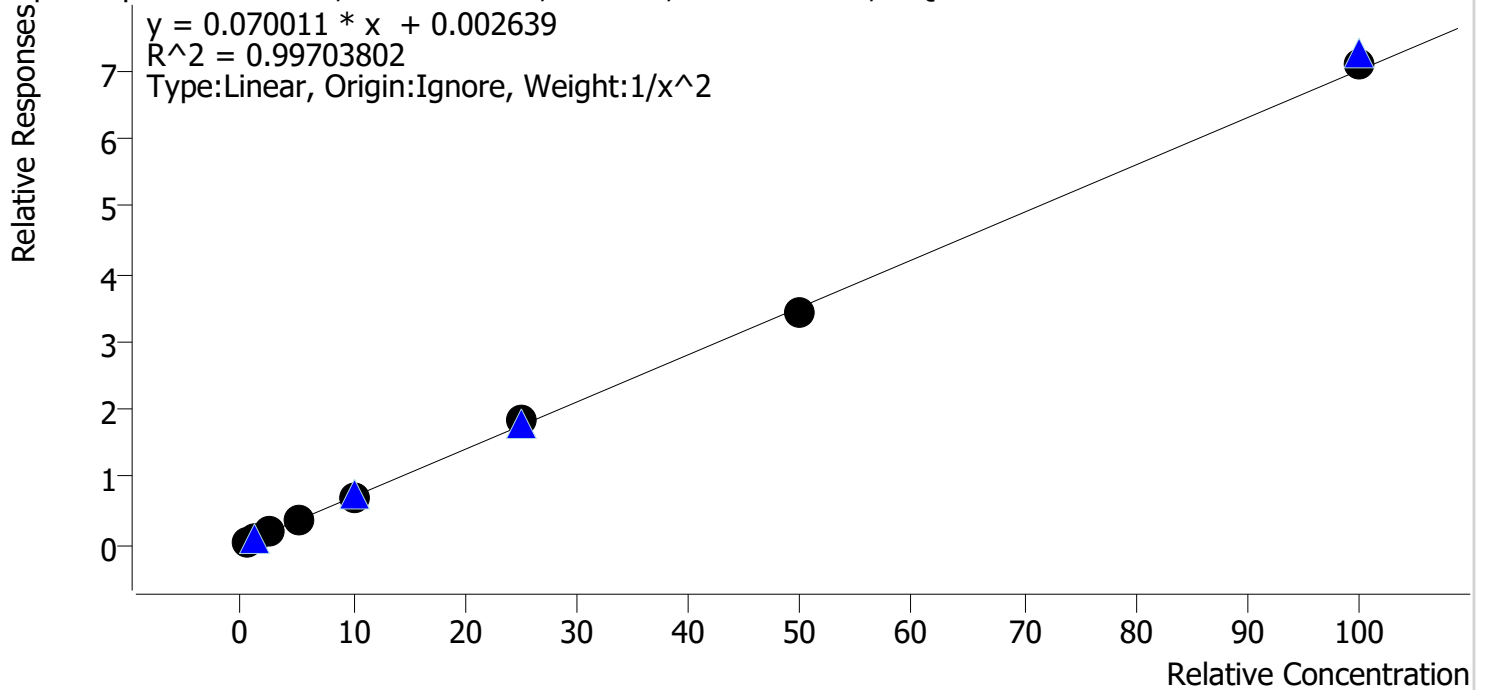
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	103.4
cal 2 mdq	2	✓	10.0	10.5	104.8
cal 3 mdq	3	✓	25.0	24.4	97.5
cal 4 mdq	4	✓	50.0	47.8	95.6
cal 5 mdq	5	✓	100.0	100.2	100.2
cal 6 mdq	6	✓	250.0	245.7	98.3
cal 7 mdq	7	✓	500.0	496.0	99.2
cal 8 mdq	8	✓	1000.0	1010.3	101.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 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	104.4
cal 2 mdq	2	✓	1.0	0.9	91.3
cal 3 mdq	3	✓	2.5	2.4	97.8
cal 4 mdq	4	✓	5.0	5.2	104.3
cal 5 mdq	5	✓	10.0	9.8	97.8
cal 6 mdq	6	✓	25.0	26.3	105.3
cal 7 mdq	7	✓	50.0	49.1	98.2
cal 8 mdq	8	✓	100.0	101.0	101.0

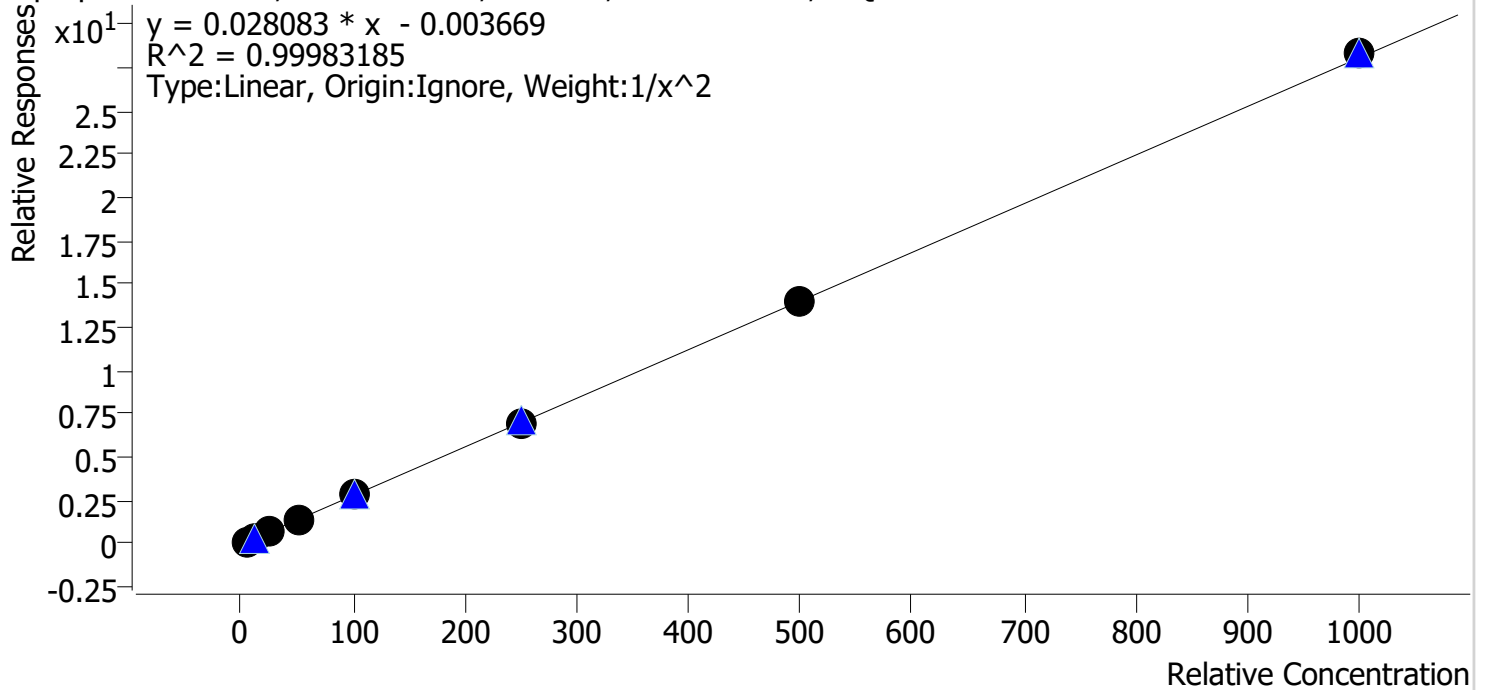


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

Bupropion - 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	101.2
cal 2 mdq	2	✓	10.0	9.8	97.7
cal 3 mdq	3	✓	25.0	24.8	99.2
cal 4 mdq	4	✓	50.0	50.4	100.8
cal 5 mdq	5	✓	100.0	100.3	100.3
cal 6 mdq	6	✓	250.0	250.4	100.2
cal 7 mdq	7	✓	500.0	498.8	99.8
cal 8 mdq	8	✓	1000.0	1008.8	100.9

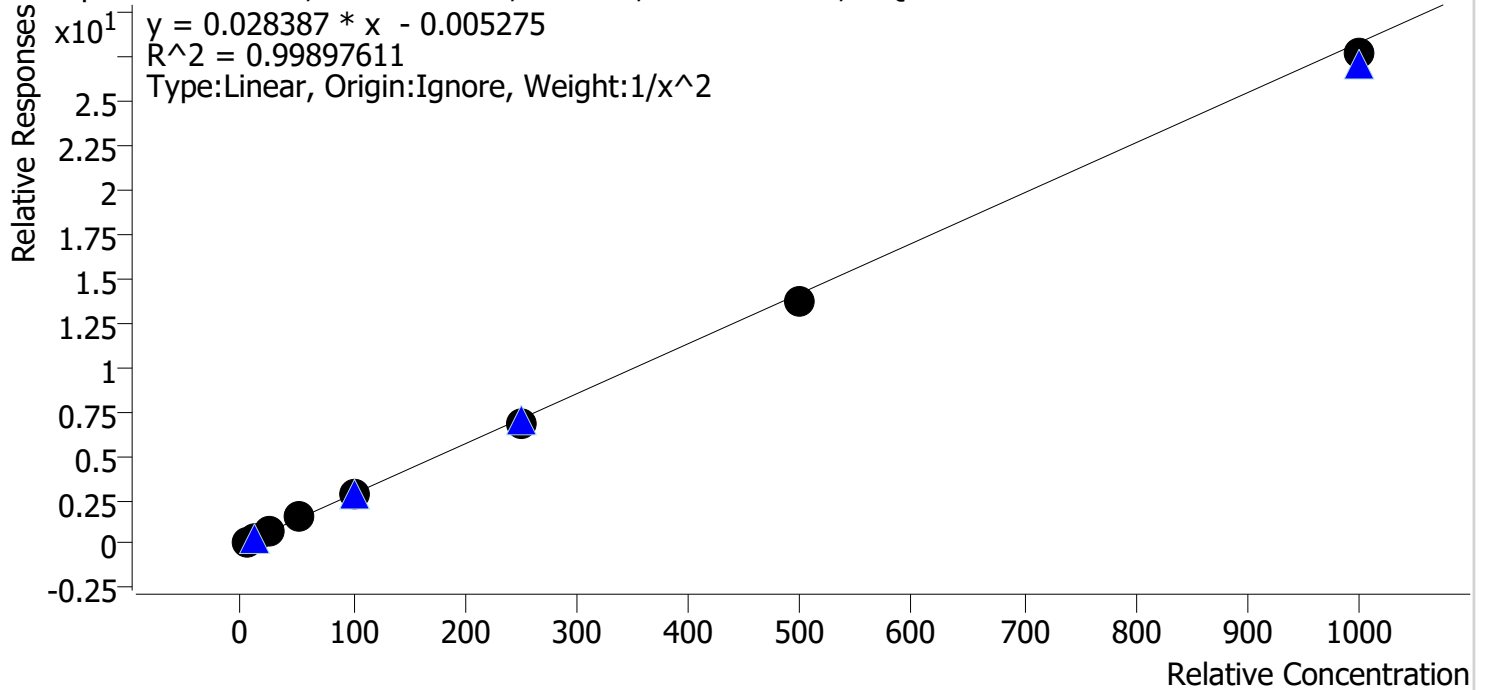
# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol

**Internal Standard** Carisoprodol-D7

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



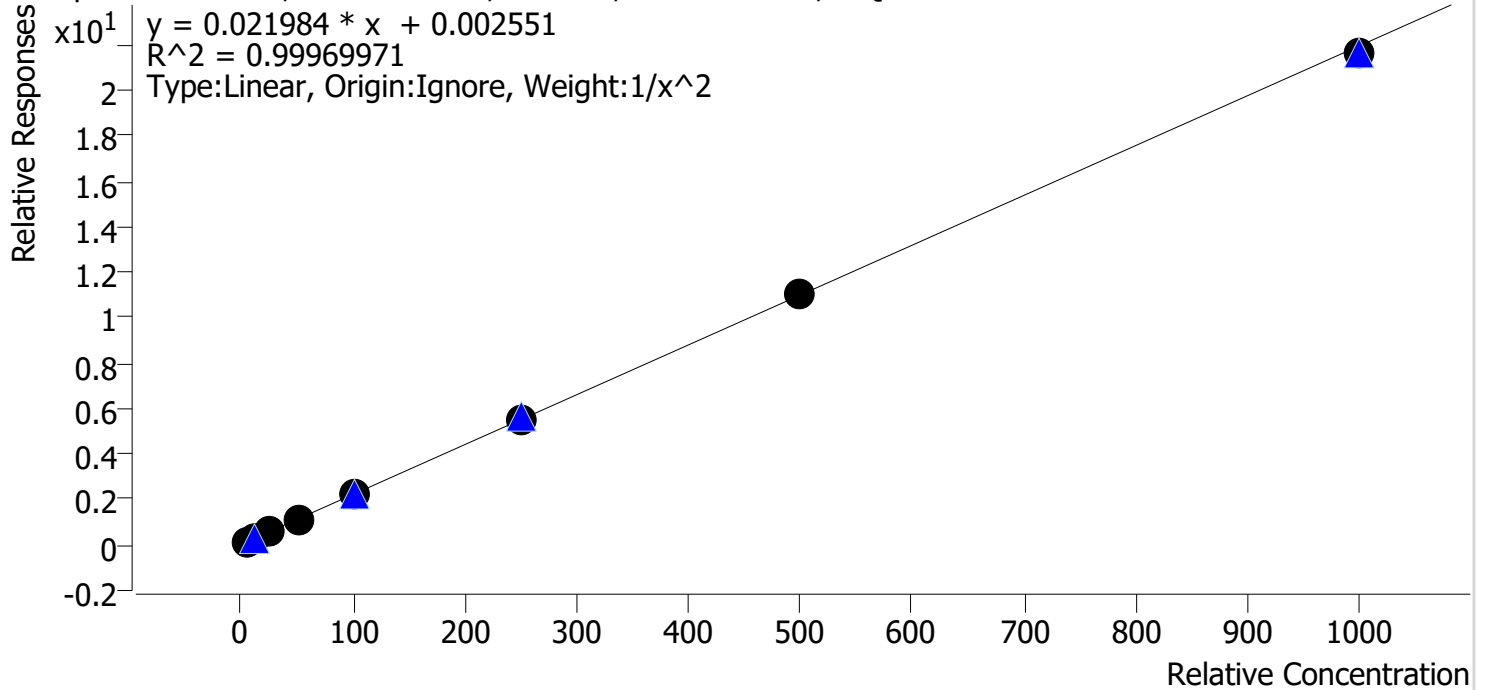
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.3
cal 2 mdq	2	✓	10.0	9.9	99.1
cal 3 mdq	3	✓	25.0	26.1	104.3
cal 4 mdq	4	✓	50.0	51.8	103.6
cal 5 mdq	5	✓	100.0	101.3	101.3
cal 6 mdq	6	✓	250.0	243.9	97.6
cal 7 mdq	7	✓	500.0	485.3	97.1
cal 8 mdq	8	✓	1000.0	978.0	97.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

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



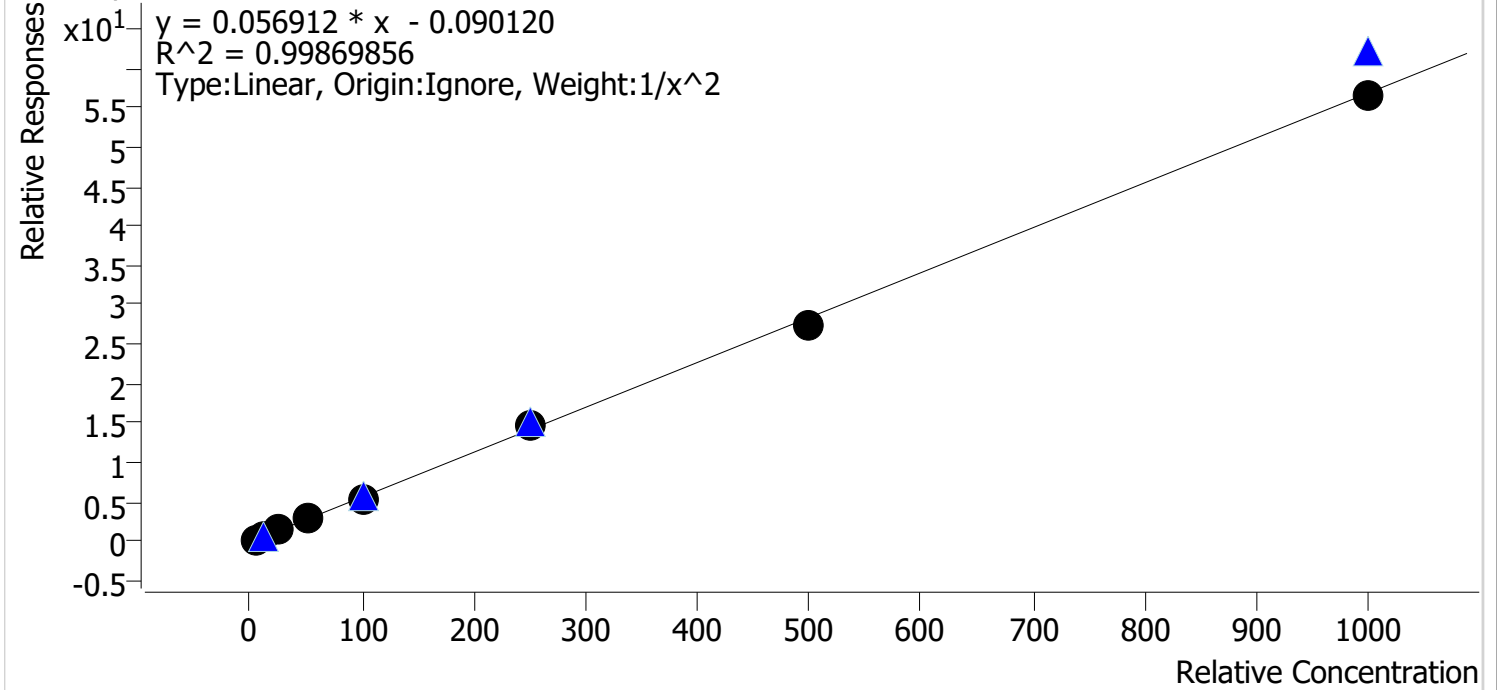
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.9
cal 2 mdq	2	✓	10.0	10.2	102.1
cal 3 mdq	3	✓	25.0	24.8	99.3
cal 4 mdq	4	✓	50.0	51.0	102.1
cal 5 mdq	5	✓	100.0	98.4	98.4
cal 6 mdq	6	✓	250.0	251.0	100.4
cal 7 mdq	7	✓	500.0	501.8	100.4
cal 8 mdq	8	✓	1000.0	984.6	98.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4

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



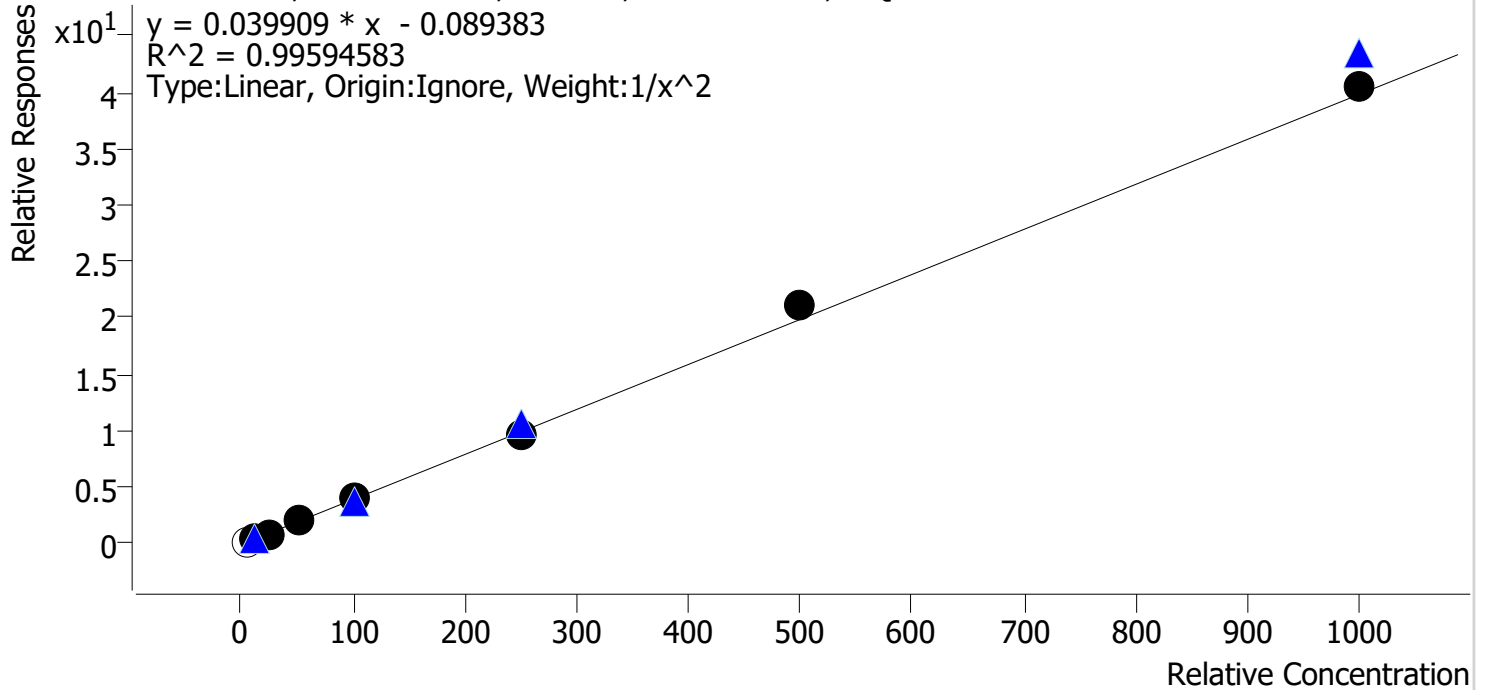
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.0
cal 2 mdq	2	✓	10.0	9.8	98.2
cal 3 mdq	3	✓	25.0	26.0	103.9
cal 4 mdq	4	✓	50.0	51.6	103.1
cal 5 mdq	5	✓	100.0	96.5	96.5
cal 6 mdq	6	✓	250.0	257.9	103.2
cal 7 mdq	7	✓	500.0	478.8	95.8
cal 8 mdq	8	✓	1000.0	994.1	99.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazolam **Internal Standard** Nordiazepam-D5

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



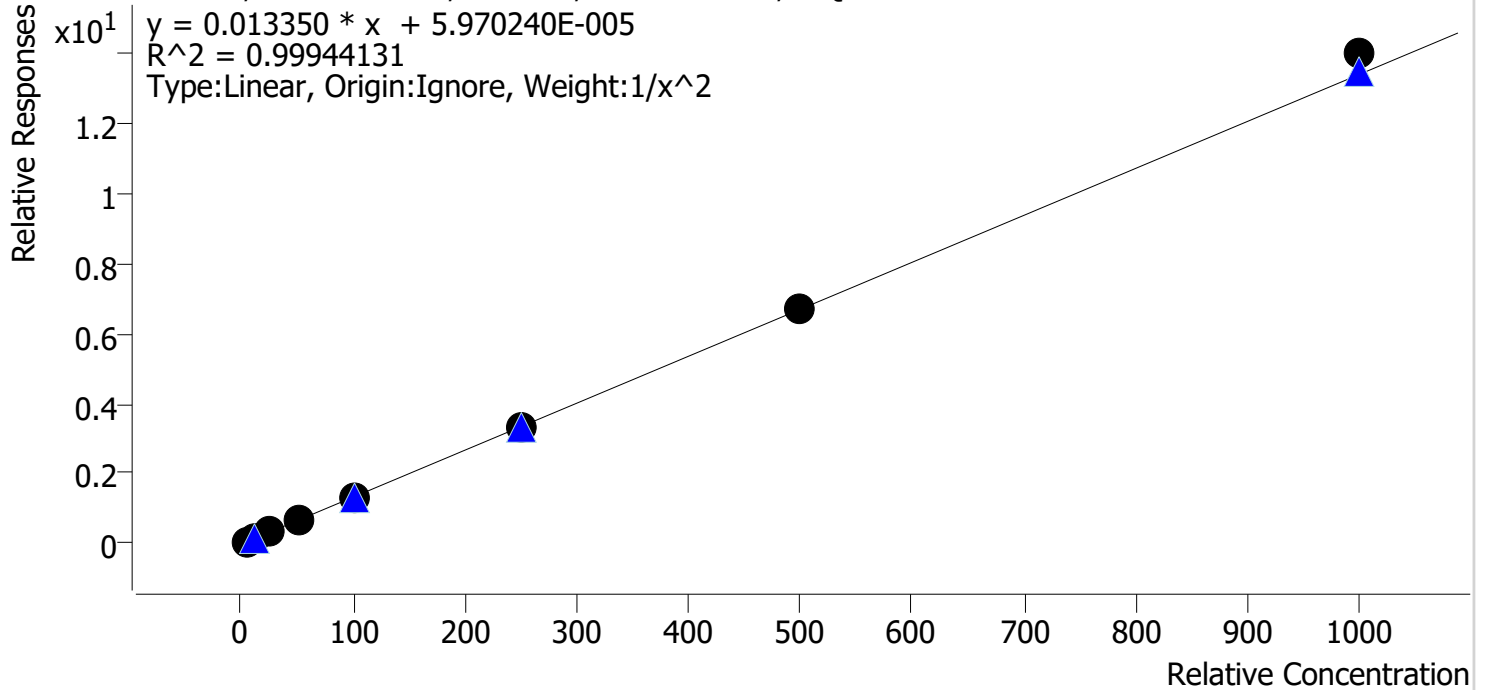
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	5.0	6.0	120.3
cal 2 mdq	2	✓	10.0	10.4	104.0
cal 3 mdq	3	✓	25.0	22.5	89.8
cal 4 mdq	4	✓	50.0	50.0	99.9
cal 5 mdq	5	✓	100.0	101.1	101.1
cal 6 mdq	6	✓	250.0	241.7	96.7
cal 7 mdq	7	✓	500.0	533.7	106.7
cal 8 mdq	8	✓	1000.0	1017.4	101.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

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



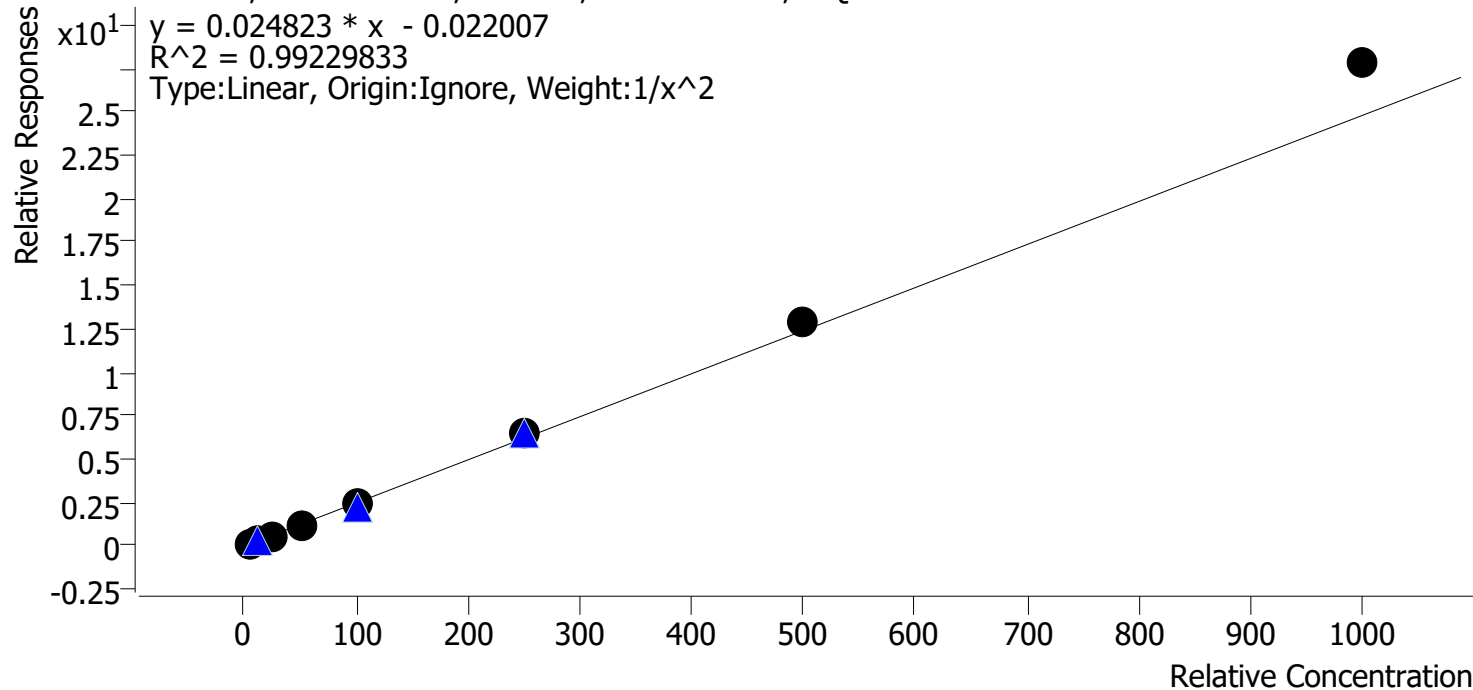
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	101.0
cal 2 mdq	2	✓	10.0	9.9	99.0
cal 3 mdq	3	✓	25.0	24.6	98.4
cal 4 mdq	4	✓	50.0	49.4	98.8
cal 5 mdq	5	✓	100.0	98.1	98.1
cal 6 mdq	6	✓	250.0	249.5	99.8
cal 7 mdq	7	✓	500.0	502.1	100.4
cal 8 mdq	8	✓	1000.0	1044.5	104.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6

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



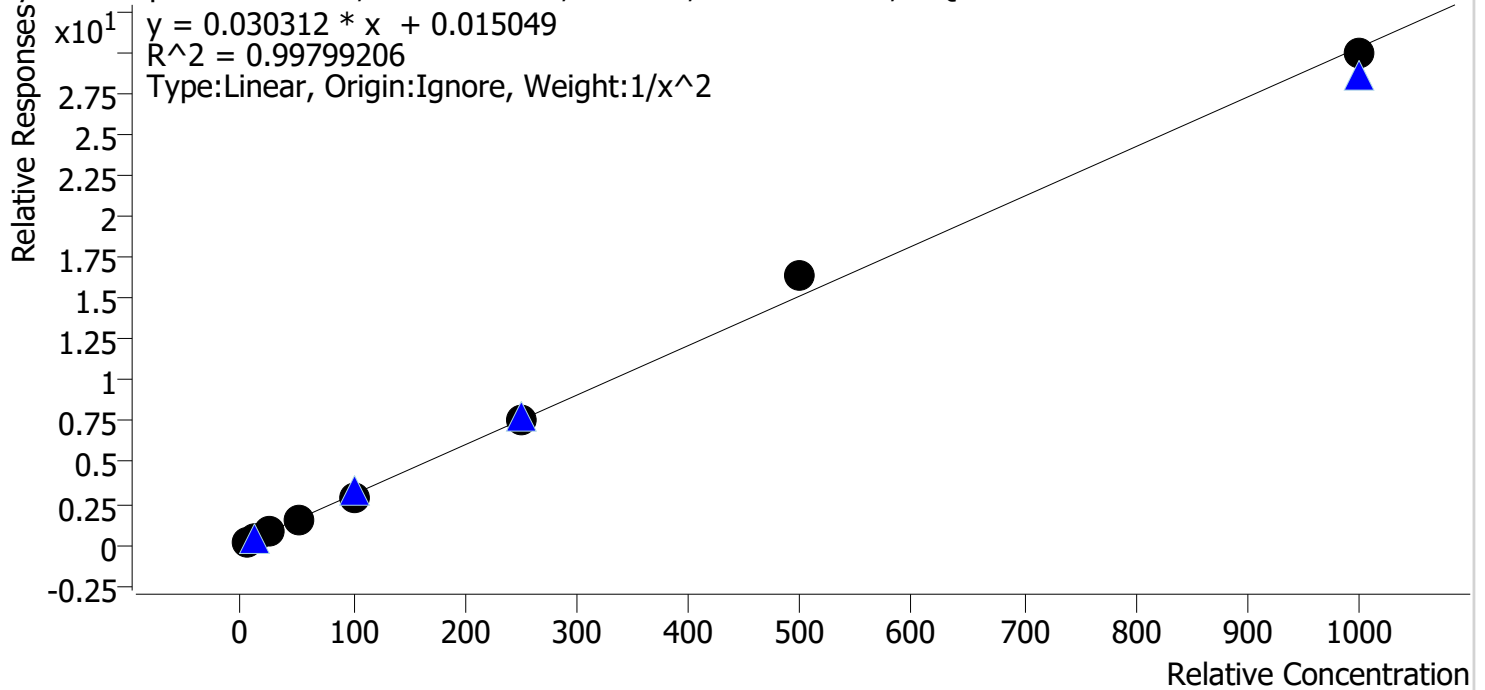
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	104.9
cal 2 mdq	2	✓	10.0	9.5	95.3
cal 3 mdq	3	✓	25.0	23.0	92.1
cal 4 mdq	4	✓	50.0	45.6	91.2
cal 5 mdq	5	✓	100.0	95.0	95.0
cal 6 mdq	6	✓	250.0	259.7	103.9
cal 7 mdq	7	✓	500.0	524.6	104.9
cal 8 mdq	8	✓	1000.0	1126.6	112.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** 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	4.9	98.9
cal 2 mdq	2	✓	10.0	10.4	103.6
cal 3 mdq	3	✓	25.0	24.6	98.6
cal 4 mdq	4	✓	50.0	48.9	97.9
cal 5 mdq	5	✓	100.0	95.4	95.4
cal 6 mdq	6	✓	250.0	247.5	99.0
cal 7 mdq	7	✓	500.0	539.3	107.9
cal 8 mdq	8	✓	1000.0	987.6	98.8

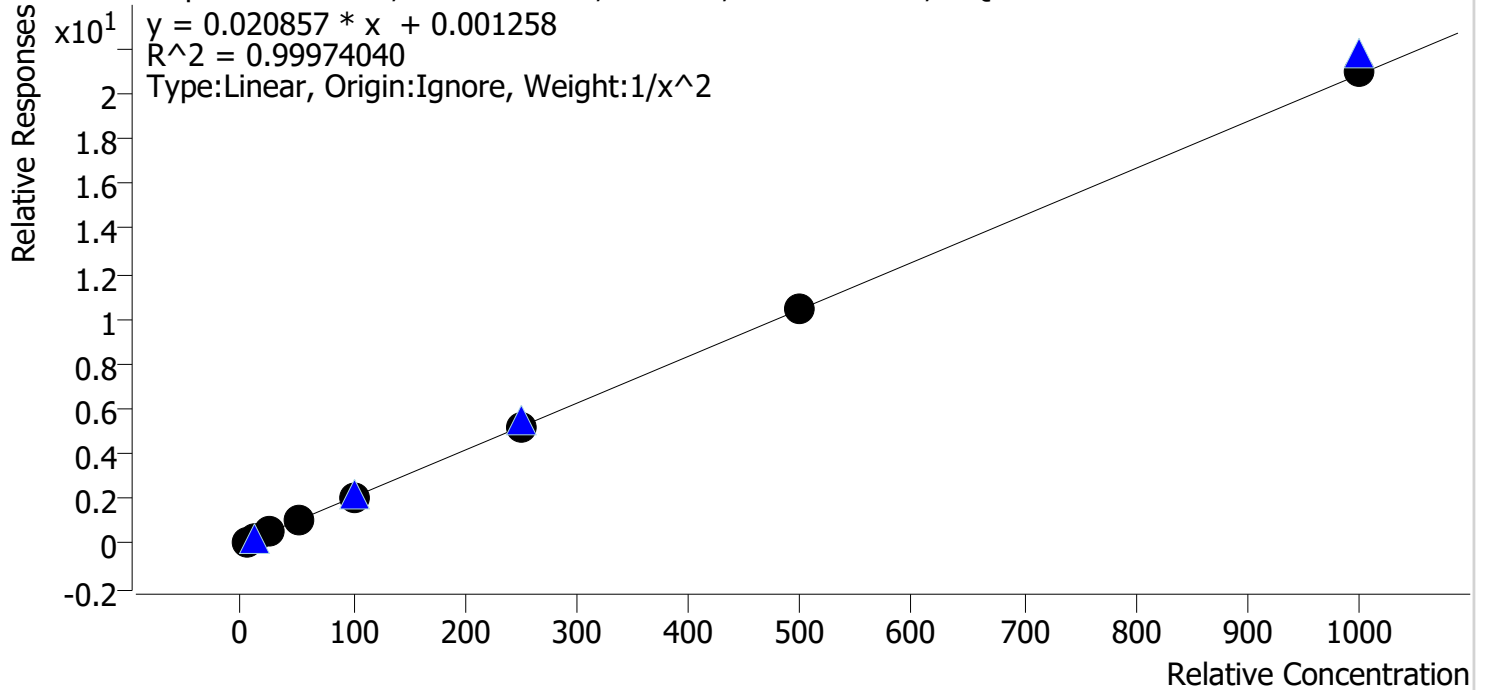


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

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



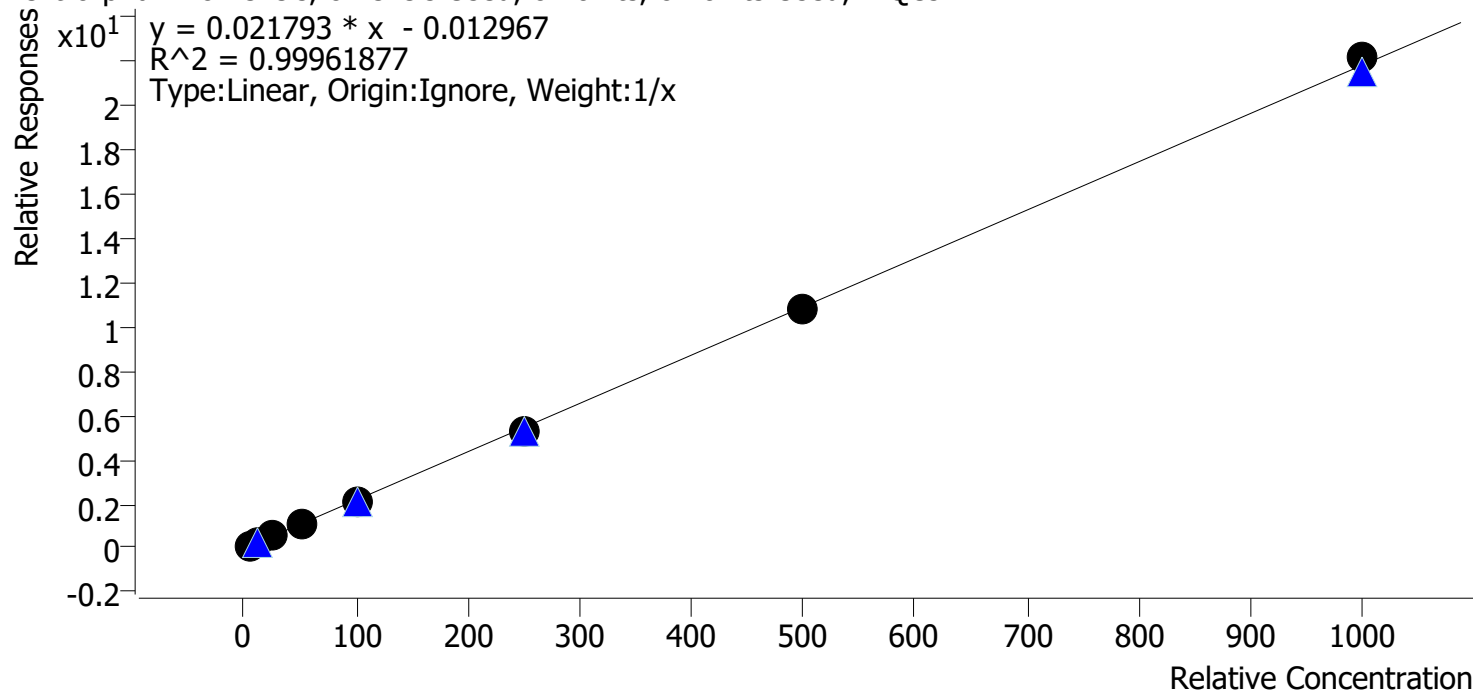
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.0
cal 2 mdq	2	✓	10.0	9.8	98.0
cal 3 mdq	3	✓	25.0	25.1	100.4
cal 4 mdq	4	✓	50.0	49.1	98.2
cal 5 mdq	5	✓	100.0	102.0	102.0
cal 6 mdq	6	✓	250.0	248.4	99.3
cal 7 mdq	7	✓	500.0	501.3	100.3
cal 8 mdq	8	✓	1000.0	1007.6	100.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

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



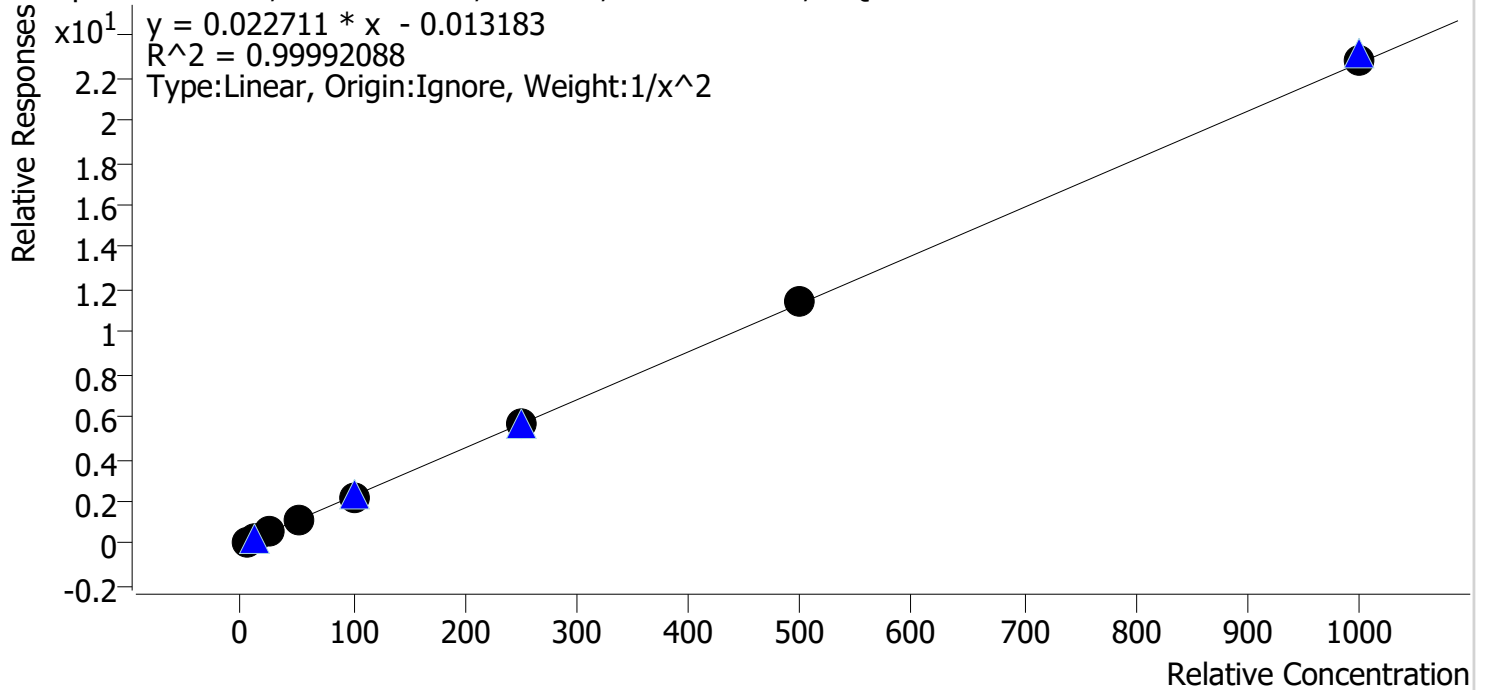
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.4	108.2
cal 2 mdq	2	✓	10.0	10.3	102.6
cal 3 mdq	3	✓	25.0	24.5	98.0
cal 4 mdq	4	✓	50.0	47.9	95.8
cal 5 mdq	5	✓	100.0	97.5	97.5
cal 6 mdq	6	✓	250.0	243.2	97.3
cal 7 mdq	7	✓	500.0	495.4	99.1
cal 8 mdq	8	✓	1000.0	1015.8	101.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5

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



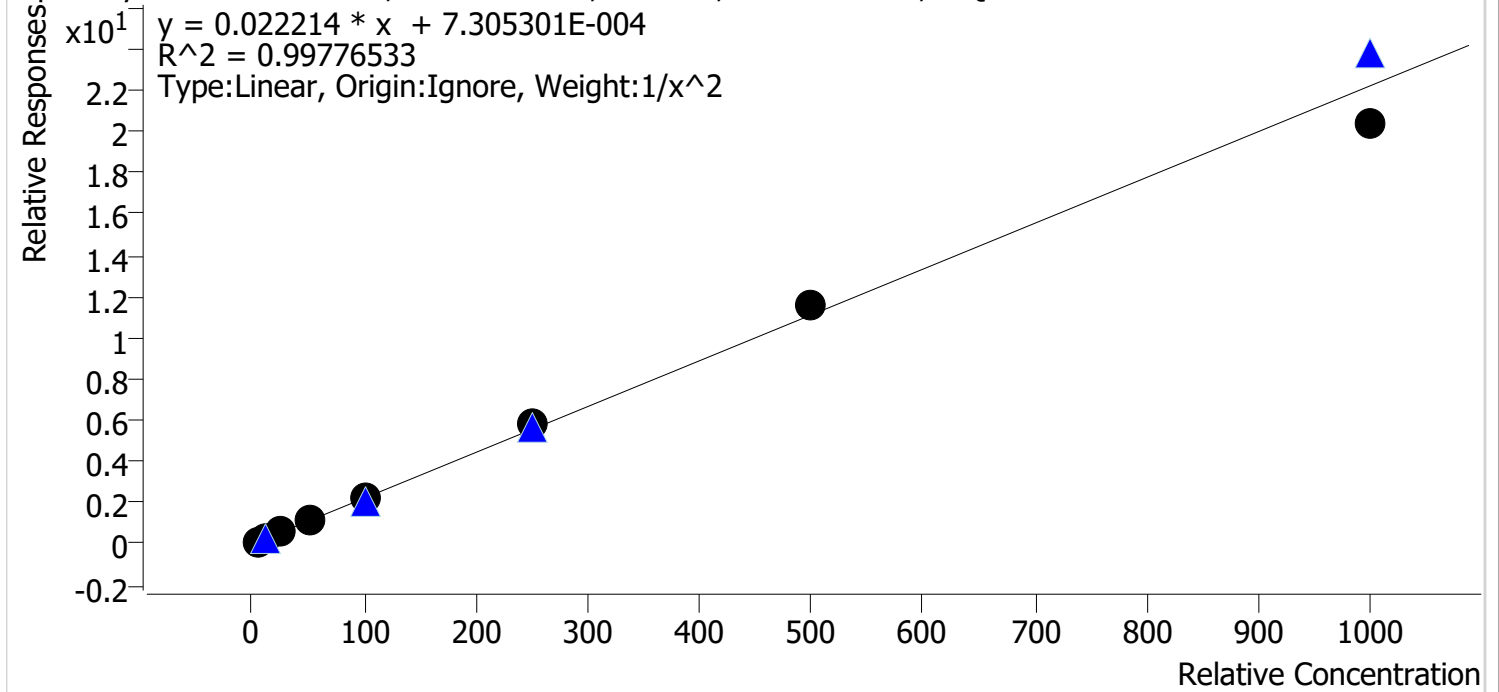
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.5
cal 2 mdq	2	✓	10.0	10.1	101.3
cal 3 mdq	3	✓	25.0	24.9	99.5
cal 4 mdq	4	✓	50.0	50.0	100.0
cal 5 mdq	5	✓	100.0	99.2	99.2
cal 6 mdq	6	✓	250.0	248.0	99.2
cal 7 mdq	7	✓	500.0	502.4	100.5
cal 8 mdq	8	✓	1000.0	1007.2	100.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

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



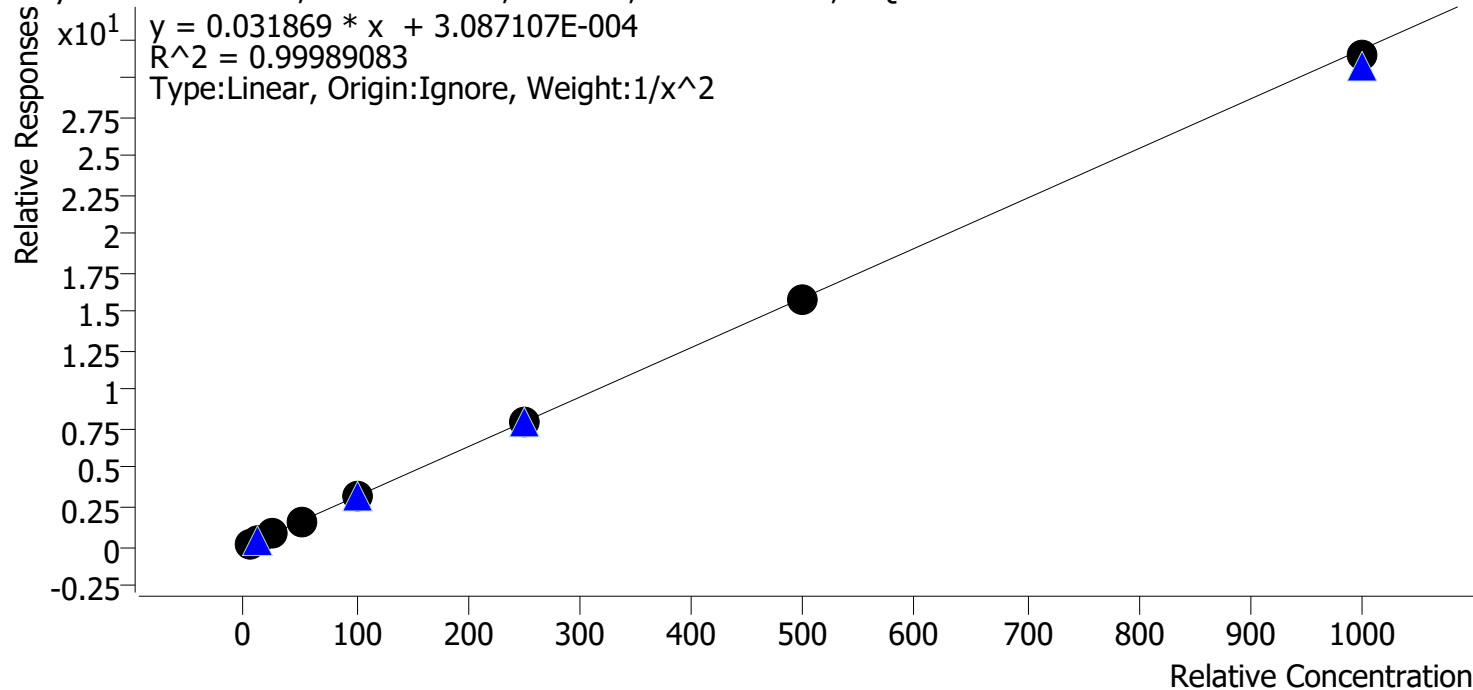
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.3
cal 2 mdq	2	✓	10.0	9.8	97.6
cal 3 mdq	3	✓	25.0	24.8	99.3
cal 4 mdq	4	✓	50.0	49.5	99.0
cal 5 mdq	5	✓	100.0	101.0	101.0
cal 6 mdq	6	✓	250.0	261.7	104.7
cal 7 mdq	7	✓	500.0	524.6	104.9
cal 8 mdq	8	✓	1000.0	921.3	92.1

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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



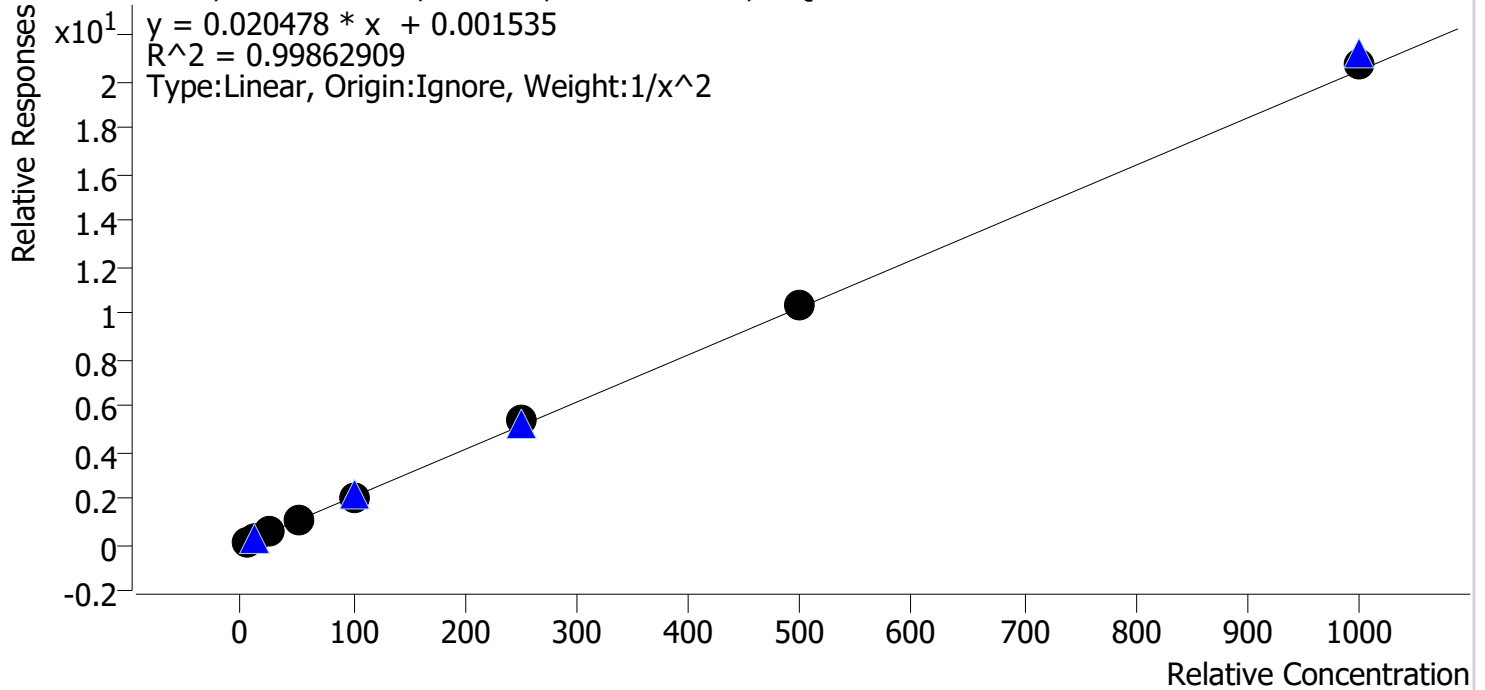
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.2
cal 2 mdq	2	✓	10.0	9.9	99.2
cal 3 mdq	3	✓	25.0	25.0	100.2
cal 4 mdq	4	✓	50.0	50.9	101.8
cal 5 mdq	5	✓	100.0	100.4	100.4
cal 6 mdq	6	✓	250.0	249.3	99.7
cal 7 mdq	7	✓	500.0	499.2	99.8
cal 8 mdq	8	✓	1000.0	987.4	98.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

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



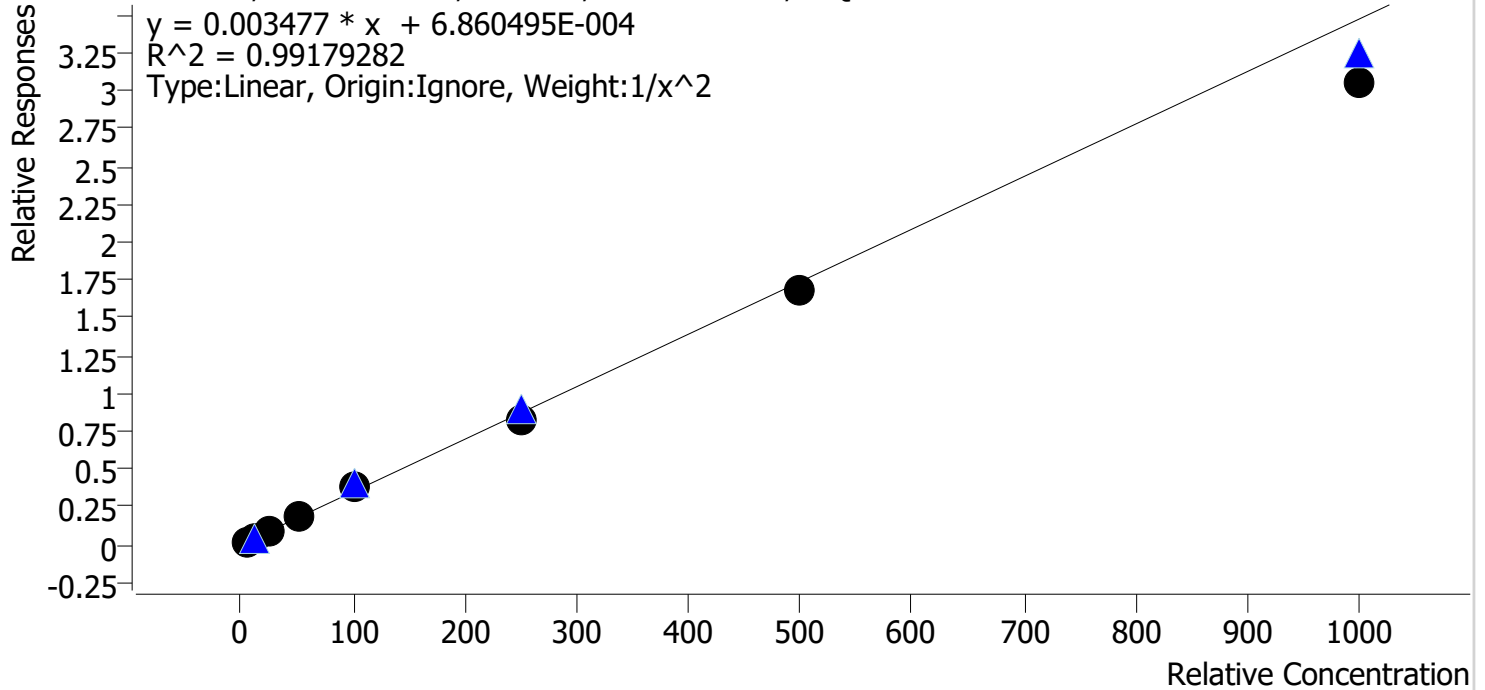
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	103.3
cal 2 mdq	2	✓	10.0	9.4	94.5
cal 3 mdq	3	✓	25.0	24.3	97.4
cal 4 mdq	4	✓	50.0	49.5	99.0
cal 5 mdq	5	✓	100.0	98.9	98.9
cal 6 mdq	6	✓	250.0	260.3	104.1
cal 7 mdq	7	✓	500.0	508.8	101.8
cal 8 mdq	8	✓	1000.0	1010.2	101.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Etizolam **Internal Standard** Diazepam-D5

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



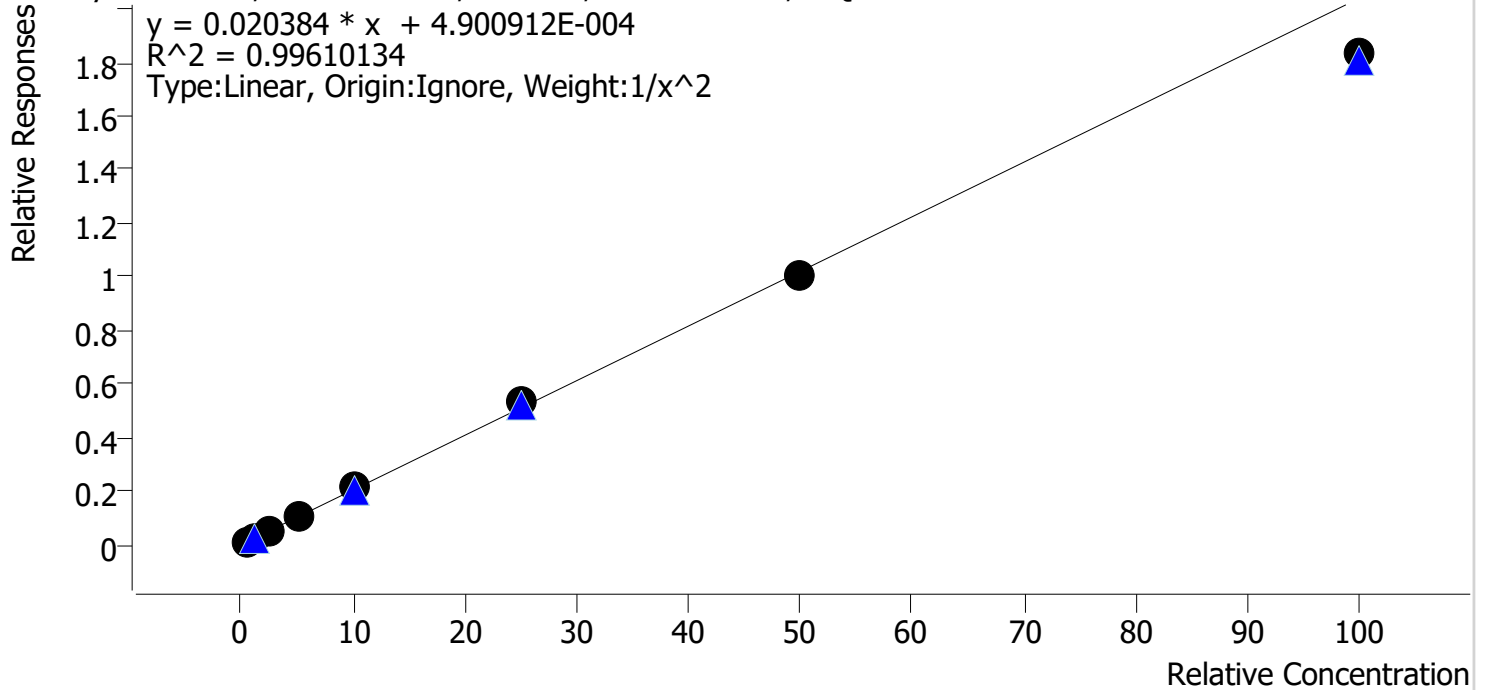
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.7
cal 2 mdq	2	✓	10.0	10.4	104.3
cal 3 mdq	3	✓	25.0	27.2	108.7
cal 4 mdq	4	✓	50.0	50.3	100.6
cal 5 mdq	5	✓	100.0	111.7	111.7
cal 6 mdq	6	✓	250.0	235.5	94.2
cal 7 mdq	7	✓	500.0	484.0	96.8
cal 8 mdq	8	✓	1000.0	880.6	88.1

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	100.4
cal 2 mdq	2	✓	1.0	1.0	95.9
cal 3 mdq	3	✓	2.5	2.7	107.2
cal 4 mdq	4	✓	5.0	5.0	100.2
cal 5 mdq	5	✓	10.0	10.5	104.6
cal 6 mdq	6	✓	25.0	25.9	103.5
cal 7 mdq	7	✓	50.0	49.2	98.4
cal 8 mdq	8	✓	100.0	89.9	89.9

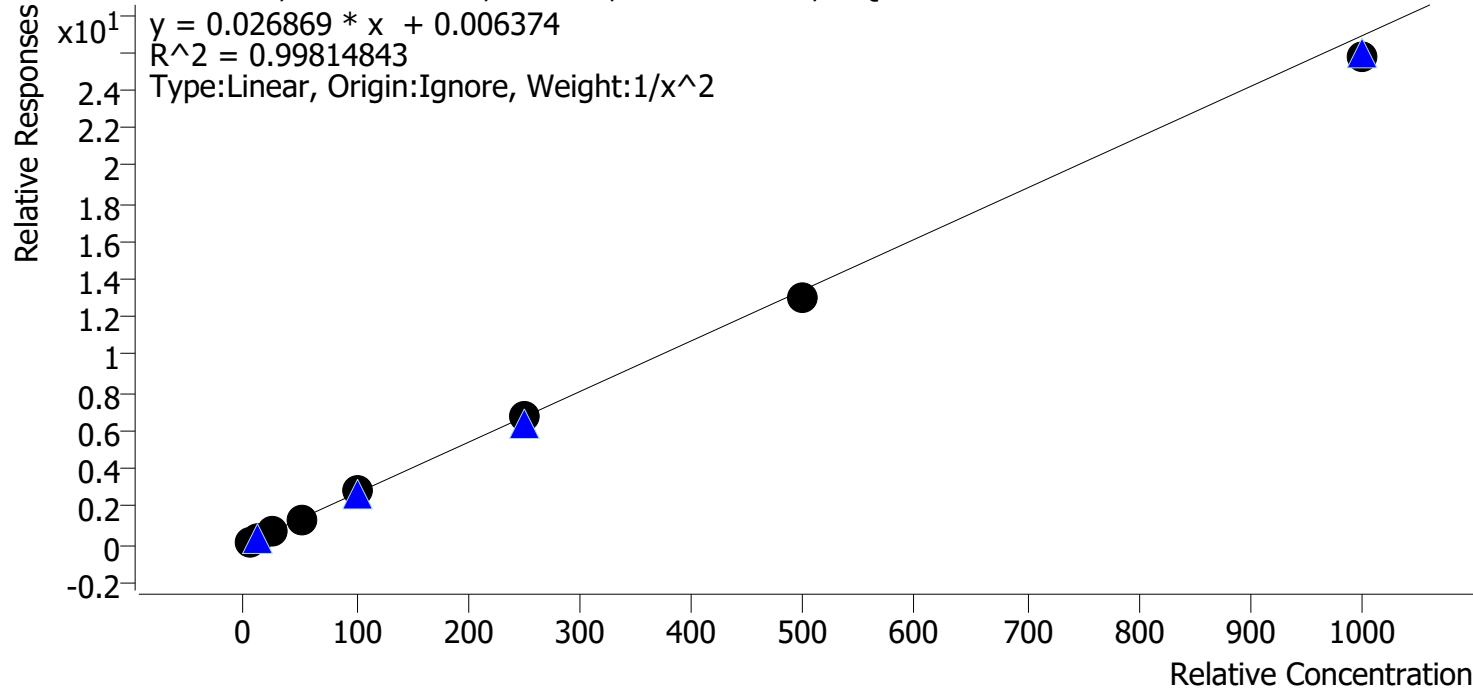


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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



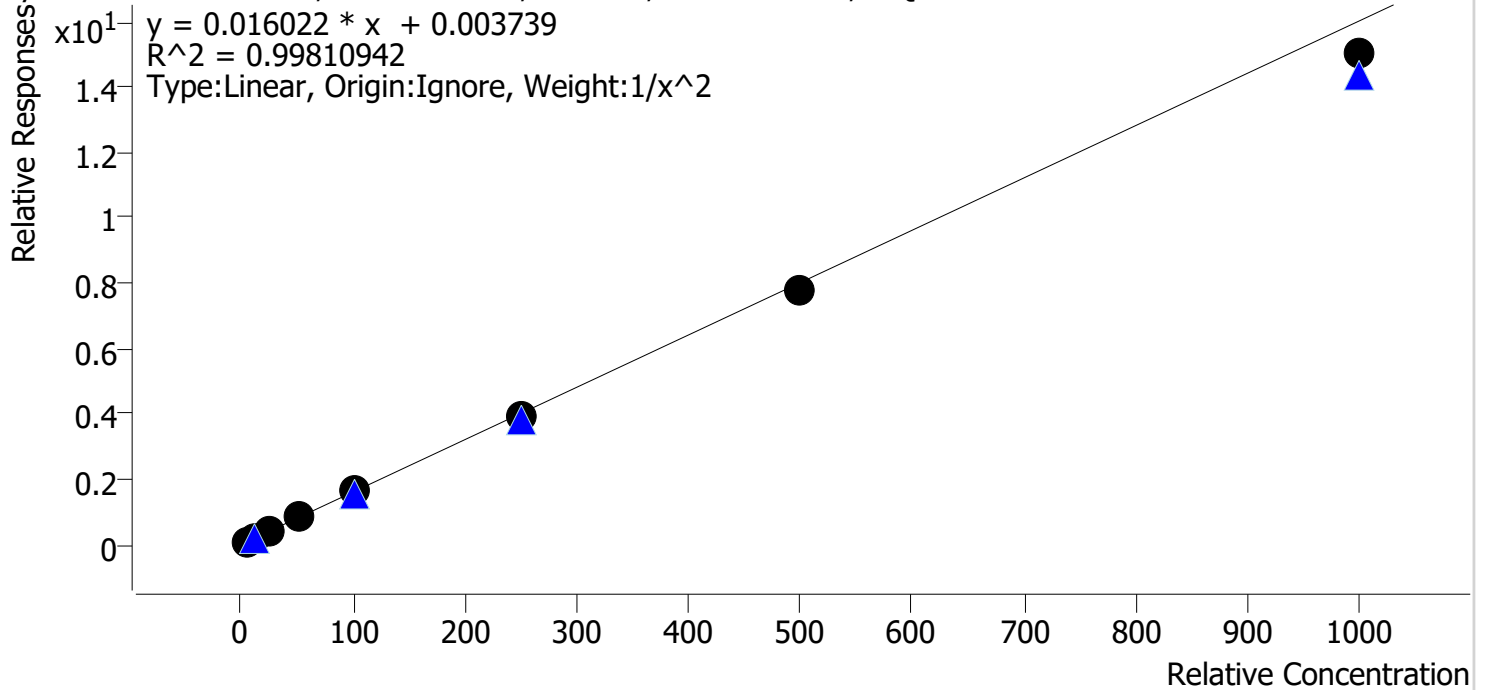
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.7
cal 2 mdq	2	✓	10.0	10.6	106.3
cal 3 mdq	3	✓	25.0	24.8	99.4
cal 4 mdq	4	✓	50.0	50.4	100.9
cal 5 mdq	5	✓	100.0	104.3	104.3
cal 6 mdq	6	✓	250.0	249.4	99.8
cal 7 mdq	7	✓	500.0	485.2	97.0
cal 8 mdq	8	✓	1000.0	956.5	95.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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



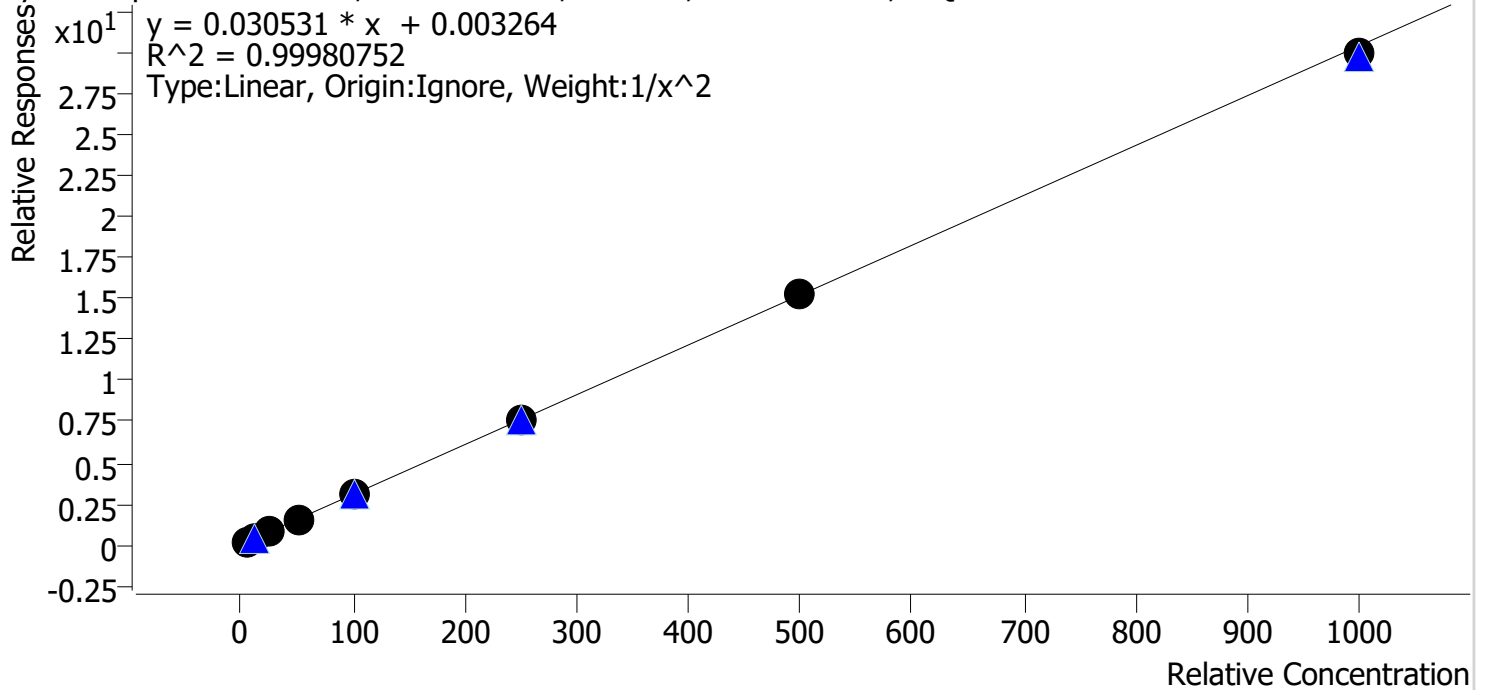
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.7
cal 2 mdq	2	✓	10.0	10.2	102.4
cal 3 mdq	3	✓	25.0	25.8	103.1
cal 4 mdq	4	✓	50.0	52.3	104.7
cal 5 mdq	5	✓	100.0	102.8	102.8
cal 6 mdq	6	✓	250.0	246.6	98.6
cal 7 mdq	7	✓	500.0	485.1	97.0
cal 8 mdq	8	✓	1000.0	937.6	93.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

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



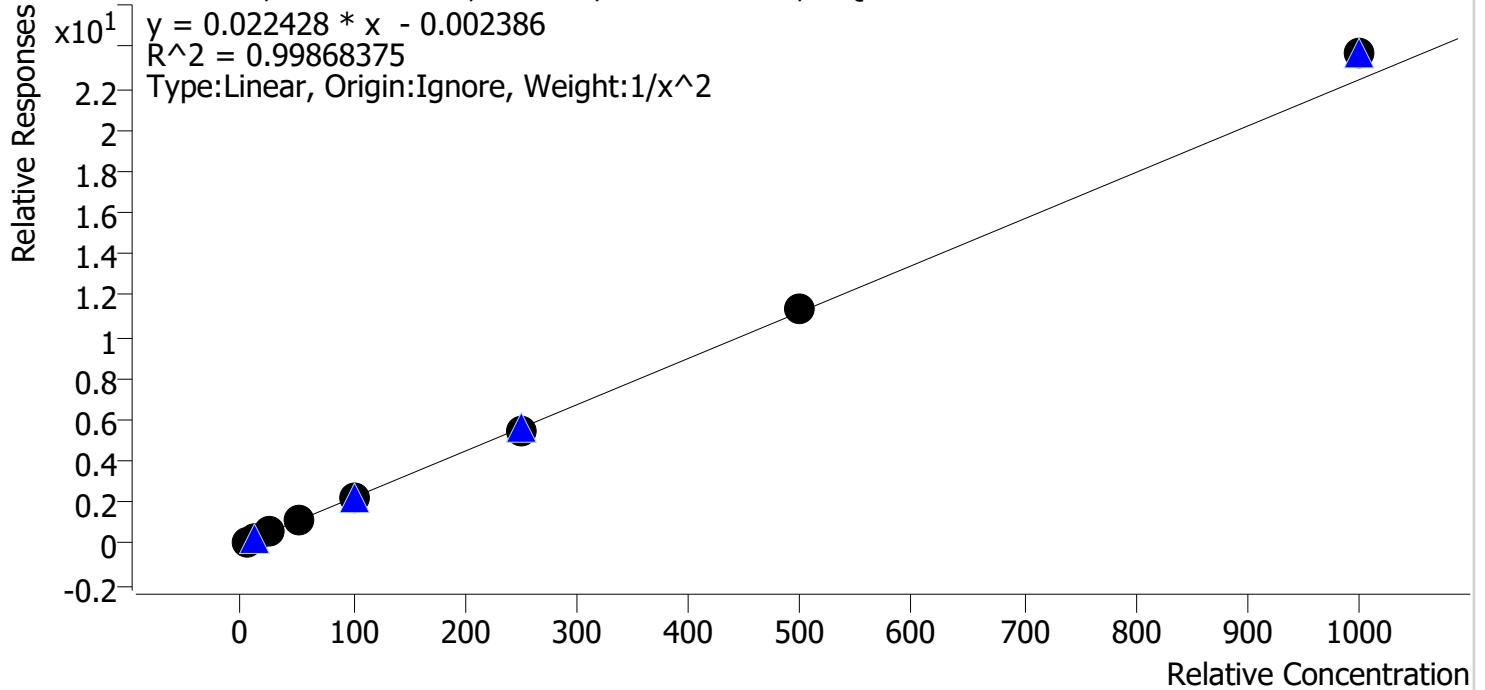
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.4
cal 2 mdq	2	✓	10.0	9.8	98.2
cal 3 mdq	3	✓	25.0	25.4	101.6
cal 4 mdq	4	✓	50.0	50.5	100.9
cal 5 mdq	5	✓	100.0	100.9	100.9
cal 6 mdq	6	✓	250.0	249.2	99.7
cal 7 mdq	7	✓	500.0	498.7	99.7
cal 8 mdq	8	✓	1000.0	984.5	98.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



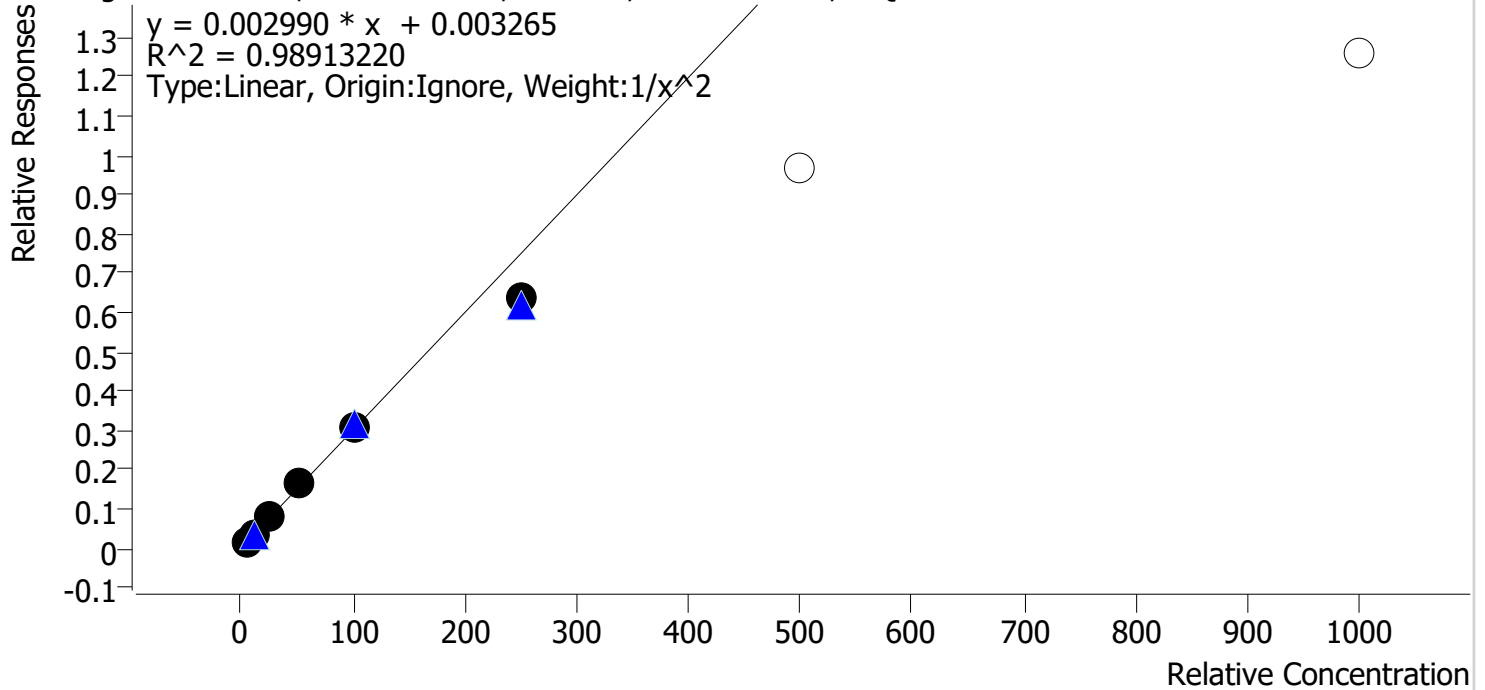
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	102.5
cal 2 mdq	2	✓	10.0	9.6	96.0
cal 3 mdq	3	✓	25.0	24.7	98.7
cal 4 mdq	4	✓	50.0	48.8	97.5
cal 5 mdq	5	✓	100.0	99.4	99.4
cal 6 mdq	6	✓	250.0	245.5	98.2
cal 7 mdq	7	✓	500.0	509.9	102.0
cal 8 mdq	8	✓	1000.0	1056.2	105.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\lam 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** Amphetamine-D11

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



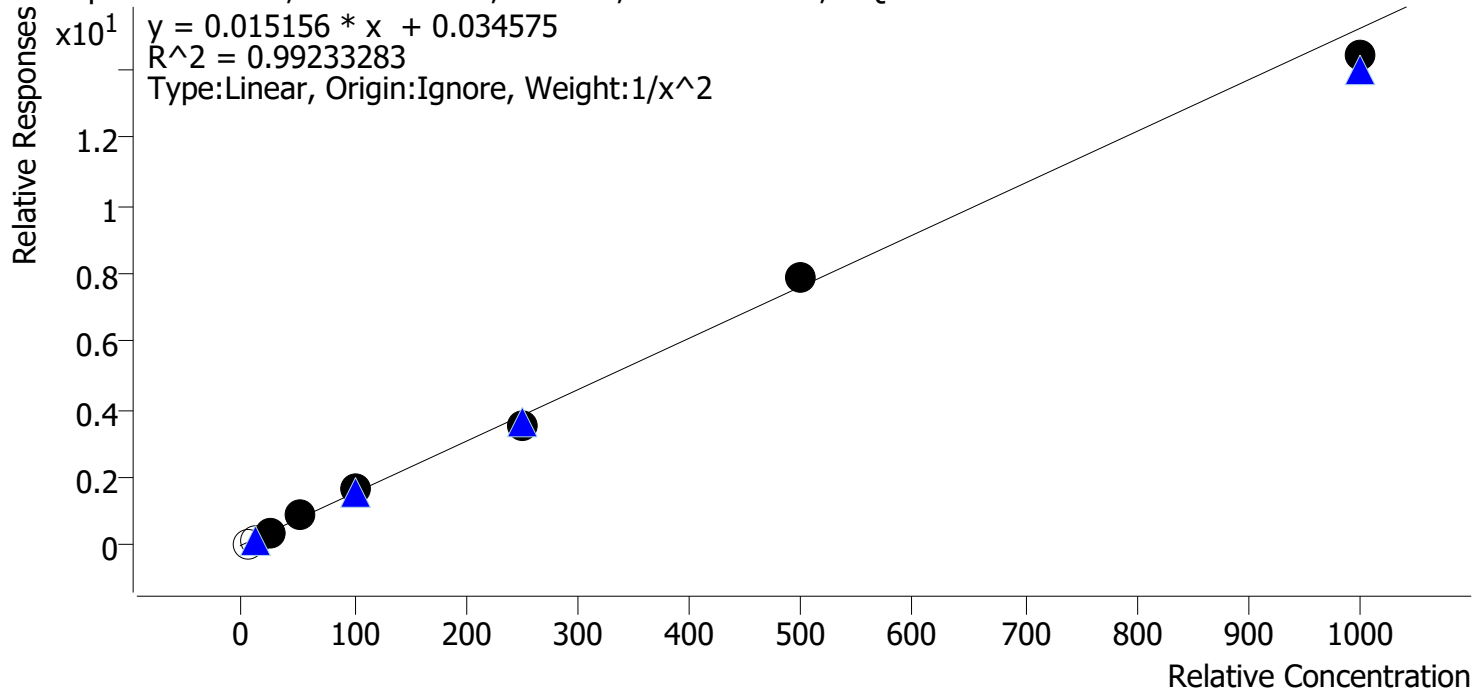
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	95.9
cal 2 mdq	2	✓	10.0	10.4	104.4
cal 3 mdq	3	✓	25.0	26.9	107.6
cal 4 mdq	4	✓	50.0	53.2	106.5
cal 5 mdq	5	✓	100.0	100.8	100.8
cal 6 mdq	6	✓	250.0	212.2	84.9
cal 7 mdq	7	✗	500.0	323.3	64.7
cal 8 mdq	8	✗	1000.0	420.2	42.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Oxazepam-D5

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



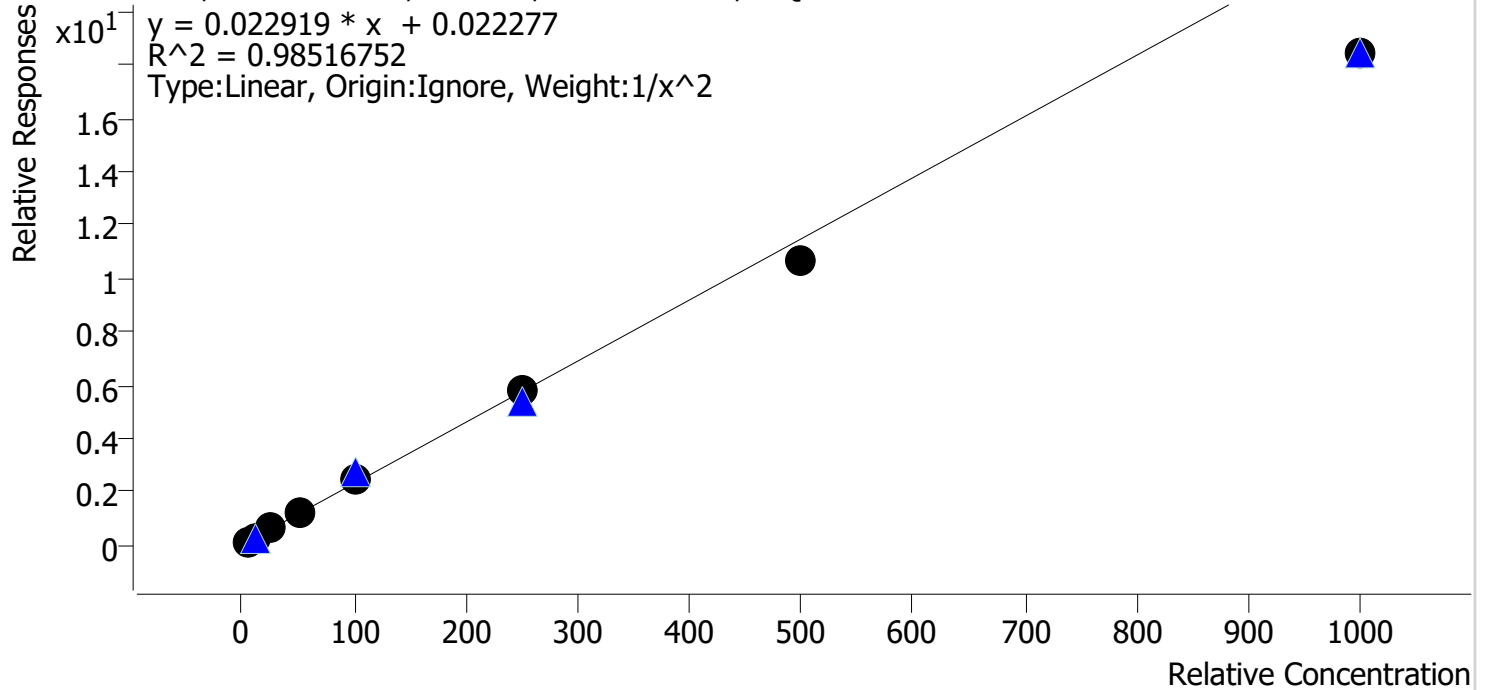
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	5.0	1.8	36.7
cal 2 mdq	2	x	10.0	8.7	87.0
cal 3 mdq	3	✓	25.0	23.7	94.7
cal 4 mdq	4	✓	50.0	54.6	109.2
cal 5 mdq	5	✓	100.0	105.7	105.7
cal 6 mdq	6	✓	250.0	230.2	92.1
cal 7 mdq	7	✓	500.0	518.1	103.6
cal 8 mdq	8	✓	1000.0	947.1	94.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** MDA **Internal Standard** MDA-D5

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



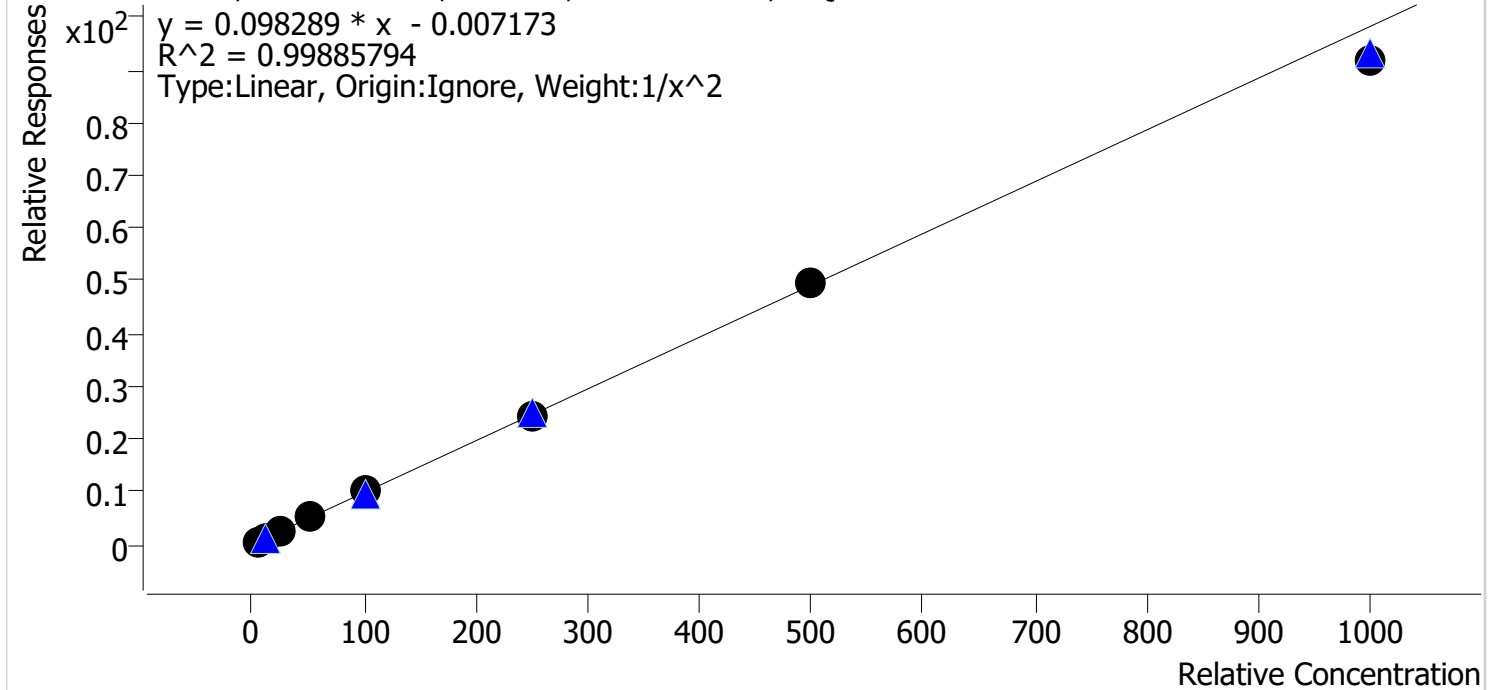
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	93.5
cal 2 mdq	2	✓	10.0	10.7	106.7
cal 3 mdq	3	✓	25.0	28.1	112.4
cal 4 mdq	4	✓	50.0	52.1	104.1
cal 5 mdq	5	✓	100.0	109.7	109.7
cal 6 mdq	6	✓	250.0	251.3	100.5
cal 7 mdq	7	✓	500.0	465.1	93.0
cal 8 mdq	8	✓	1000.0	801.5	80.1

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 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	4.9	98.8
cal 2 mdq	2	✓	10.0	10.1	100.9
cal 3 mdq	3	✓	25.0	25.4	101.7
cal 4 mdq	4	✓	50.0	51.9	103.7
cal 5 mdq	5	✓	100.0	100.9	100.9
cal 6 mdq	6	✓	250.0	248.7	99.5
cal 7 mdq	7	✓	500.0	503.7	100.7
cal 8 mdq	8	✓	1000.0	937.0	93.7

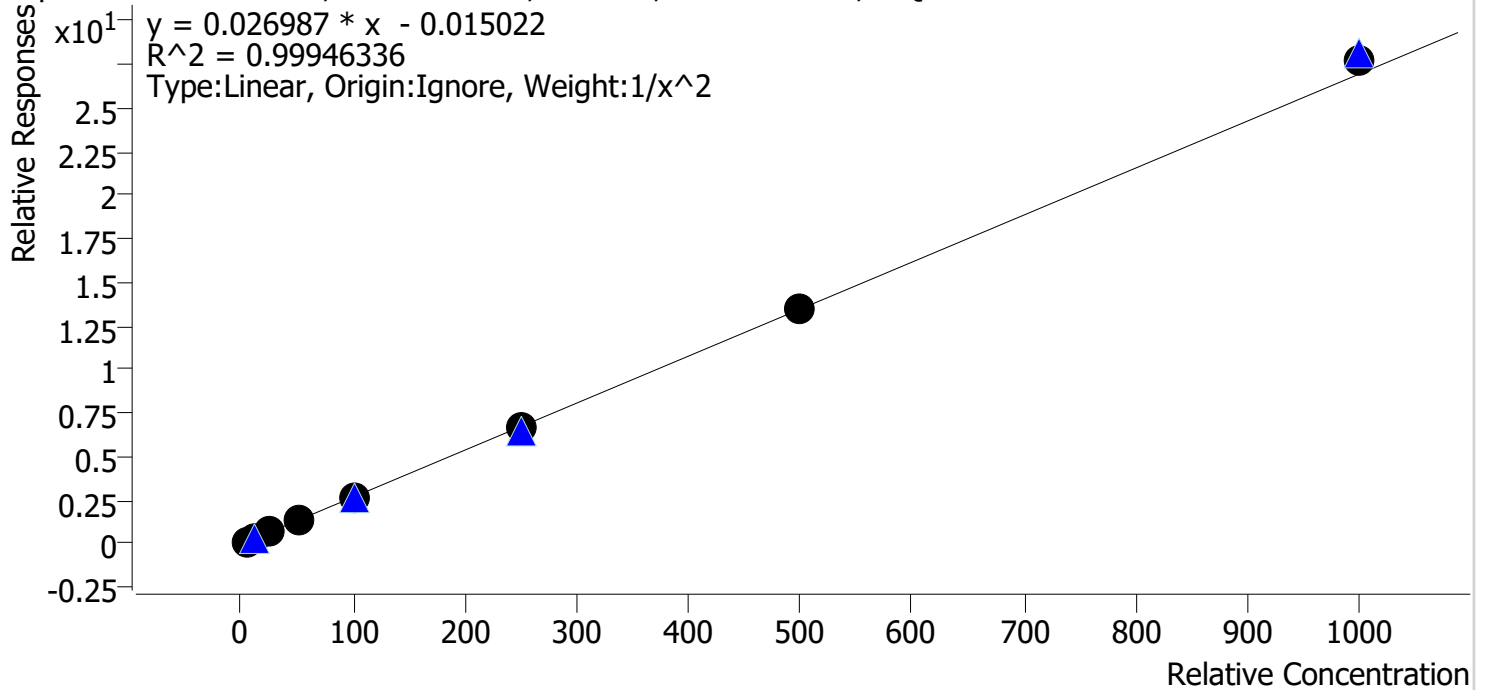


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

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



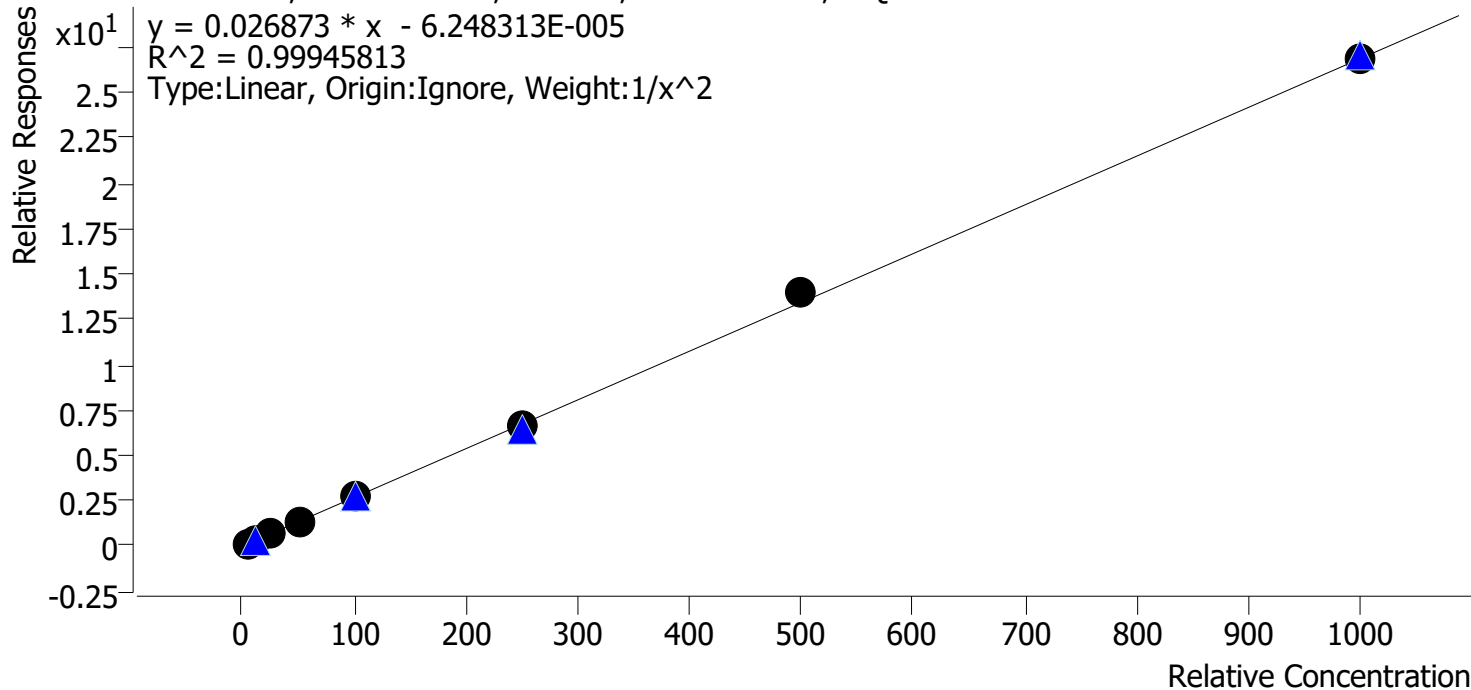
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.3
cal 2 mdq	2	✓	10.0	9.7	97.1
cal 3 mdq	3	✓	25.0	25.4	101.8
cal 4 mdq	4	✓	50.0	48.9	97.8
cal 5 mdq	5	✓	100.0	100.1	100.1
cal 6 mdq	6	✓	250.0	246.8	98.7
cal 7 mdq	7	✓	500.0	501.7	100.3
cal 8 mdq	8	✓	1000.0	1028.8	102.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

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



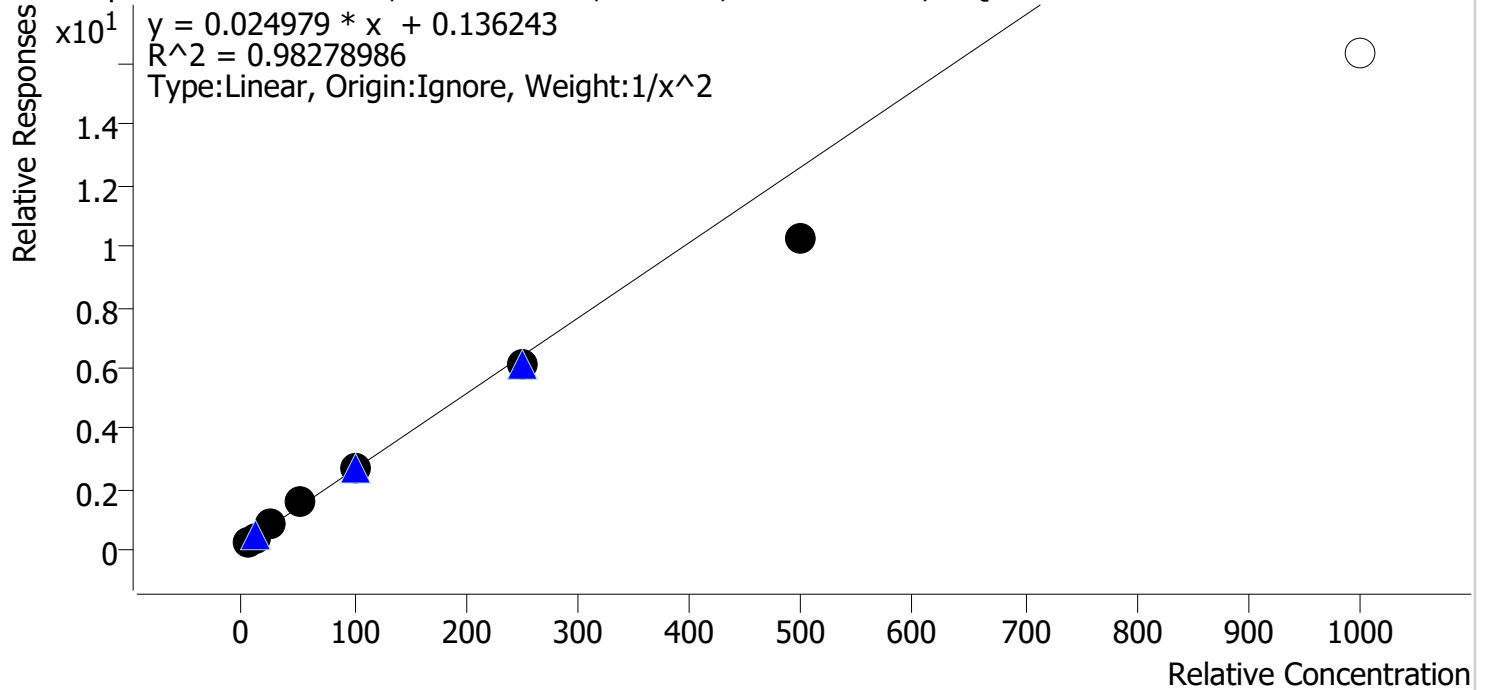
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.7
cal 2 mdq	2	✓	10.0	9.9	99.0
cal 3 mdq	3	✓	25.0	25.1	100.3
cal 4 mdq	4	✓	50.0	48.6	97.2
cal 5 mdq	5	✓	100.0	100.7	100.7
cal 6 mdq	6	✓	250.0	245.1	98.0
cal 7 mdq	7	✓	500.0	519.4	103.9
cal 8 mdq	8	✓	1000.0	1001.7	100.2

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** **Methamphetamine-D11**

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



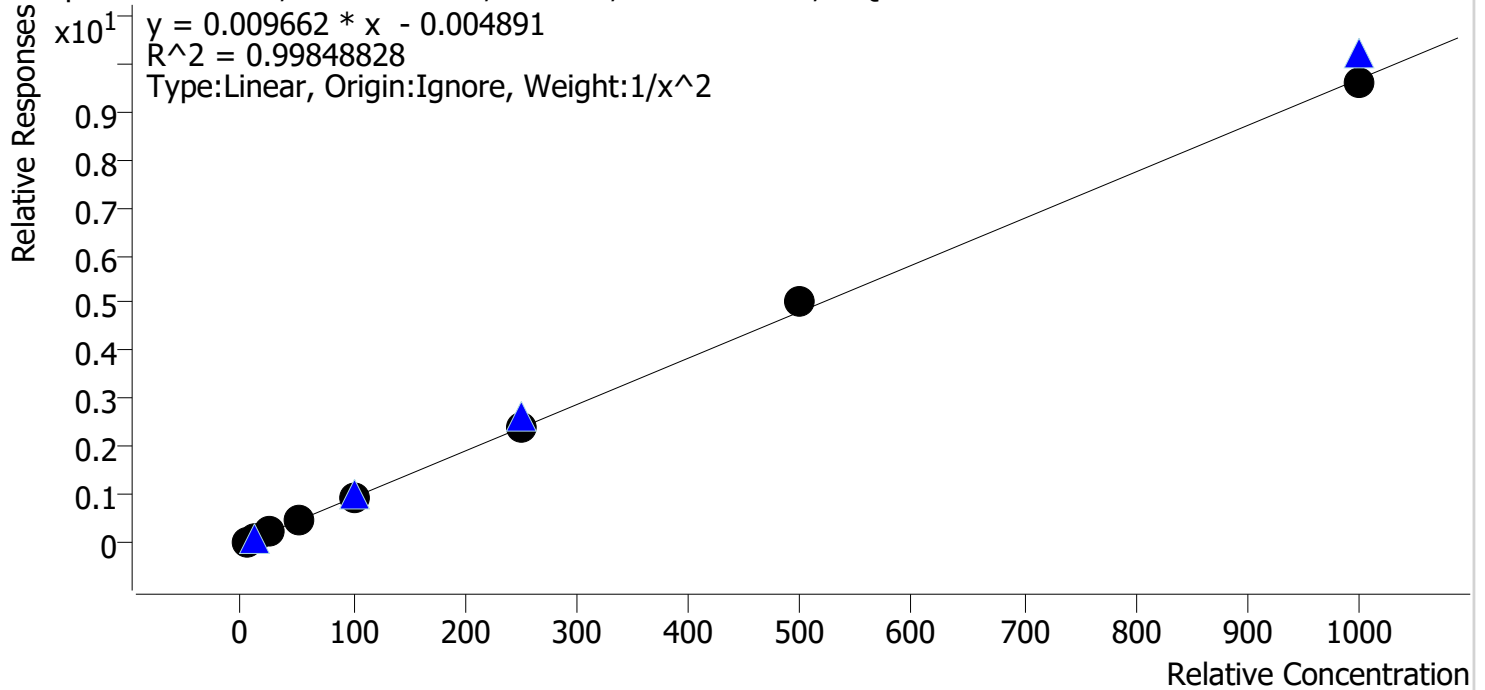
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	94.9
cal 2 mdq	2	✓	10.0	10.4	104.4
cal 3 mdq	3	✓	25.0	27.0	108.0
cal 4 mdq	4	✓	50.0	57.6	115.3
cal 5 mdq	5	✓	100.0	102.2	102.2
cal 6 mdq	6	✓	250.0	236.7	94.7
cal 7 mdq	7	✓	500.0	403.1	80.6
cal 8 mdq	8	✗	1000.0	649.5	64.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** MDA-D5

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	5.2	103.4
cal 2 mdq	2	✓	10.0	9.4	94.1
cal 3 mdq	3	✓	25.0	24.3	97.3
cal 4 mdq	4	✓	50.0	49.5	99.0
cal 5 mdq	5	✓	100.0	101.3	101.3
cal 6 mdq	6	✓	250.0	252.4	101.0
cal 7 mdq	7	✓	500.0	523.4	104.7
cal 8 mdq	8	✓	1000.0	991.8	99.2

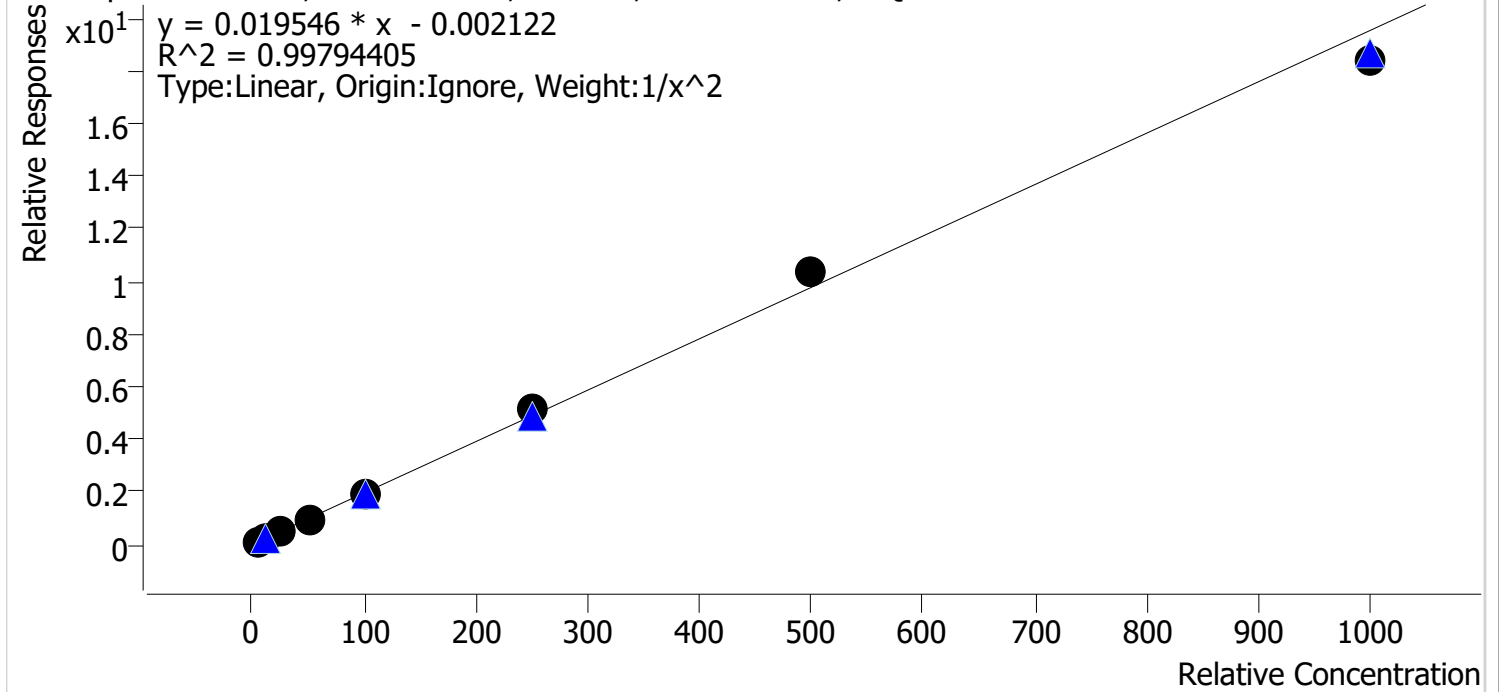
# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine

**Internal Standard** Pseudoephedrine-D3

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



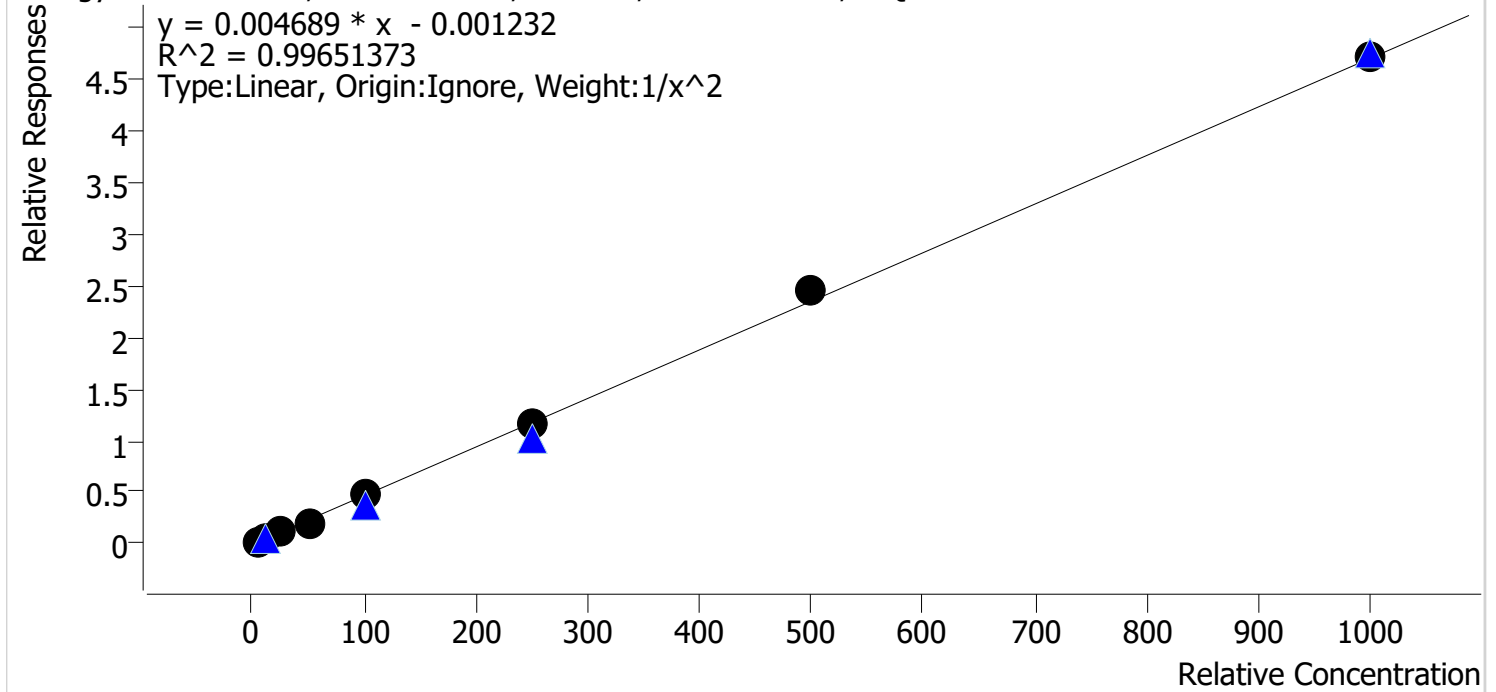
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.5
cal 2 mdq	2	✓	10.0	9.7	97.5
cal 3 mdq	3	✓	25.0	25.0	100.2
cal 4 mdq	4	✓	50.0	48.0	95.9
cal 5 mdq	5	✓	100.0	100.3	100.3
cal 6 mdq	6	✓	250.0	260.9	104.3
cal 7 mdq	7	✓	500.0	529.1	105.8
cal 8 mdq	8	✓	1000.0	944.9	94.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Pseudoephedrine-D3

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

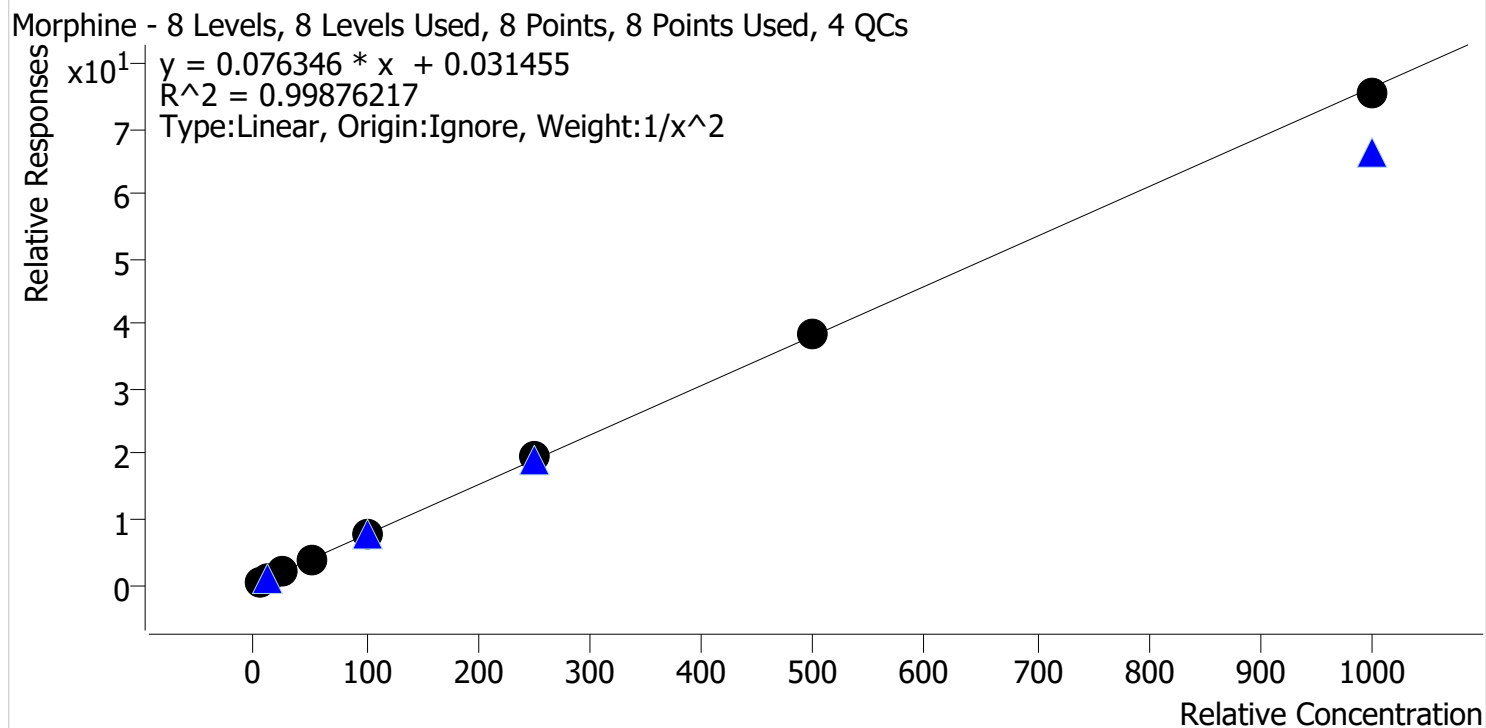


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.1
cal 2 mdq	2	✓	10.0	9.6	96.4
cal 3 mdq	3	✓	25.0	27.0	107.9
cal 4 mdq	4	✓	50.0	45.3	90.6
cal 5 mdq	5	✓	100.0	101.2	101.2
cal 6 mdq	6	✓	250.0	246.5	98.6
cal 7 mdq	7	✓	500.0	520.0	104.0
cal 8 mdq	8	✓	1000.0	1001.3	100.1

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6



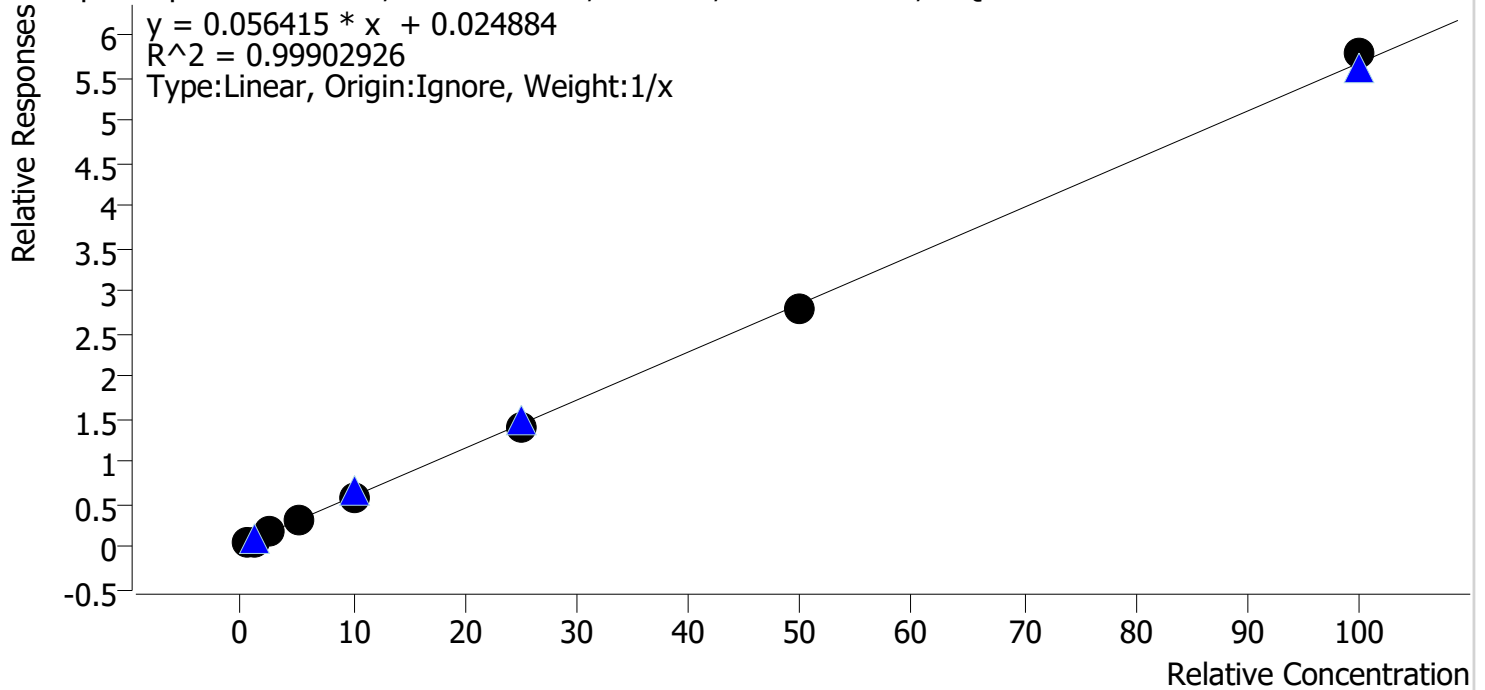
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.1
cal 2 mdq	2	✓	10.0	9.9	99.2
cal 3 mdq	3	✓	25.0	26.0	104.1
cal 4 mdq	4	✓	50.0	47.1	94.2
cal 5 mdq	5	✓	100.0	99.2	99.2
cal 6 mdq	6	✓	250.0	257.9	103.2
cal 7 mdq	7	✓	500.0	506.2	101.2
cal 8 mdq	8	✓	1000.0	987.6	98.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 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	0.6	118.6
cal 2 mdq	2	✓	1.0	0.8	79.0
cal 3 mdq	3	✓	2.5	2.7	109.2
cal 4 mdq	4	✓	5.0	4.8	96.8
cal 5 mdq	5	✓	10.0	9.9	98.9
cal 6 mdq	6	✓	25.0	24.6	98.5
cal 7 mdq	7	✓	50.0	48.6	97.2
cal 8 mdq	8	✓	100.0	101.9	101.9

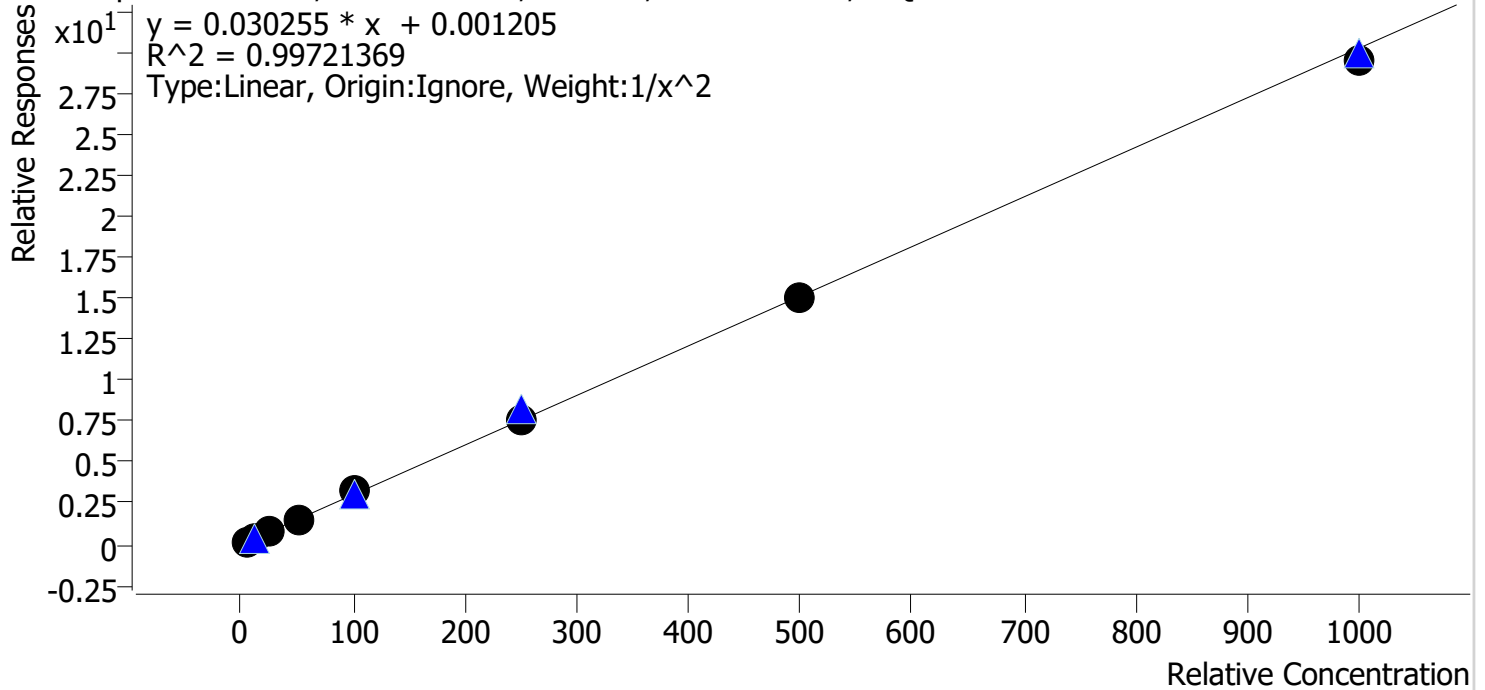


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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



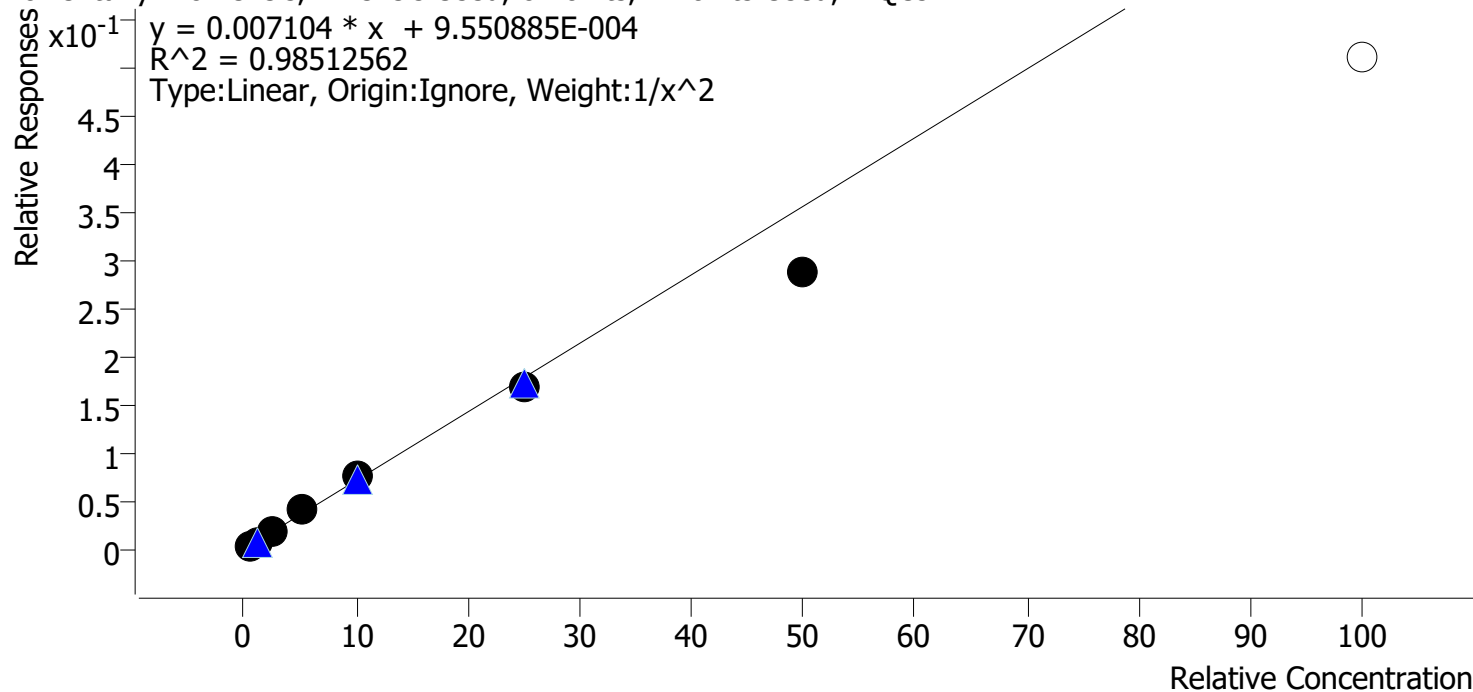
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	104.0
cal 2 mdq	2	✓	10.0	9.1	90.9
cal 3 mdq	3	✓	25.0	25.4	101.6
cal 4 mdq	4	✓	50.0	49.4	98.9
cal 5 mdq	5	✓	100.0	106.2	106.2
cal 6 mdq	6	✓	250.0	253.0	101.2
cal 7 mdq	7	✓	500.0	497.5	99.5
cal 8 mdq	8	✓	1000.0	977.4	97.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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



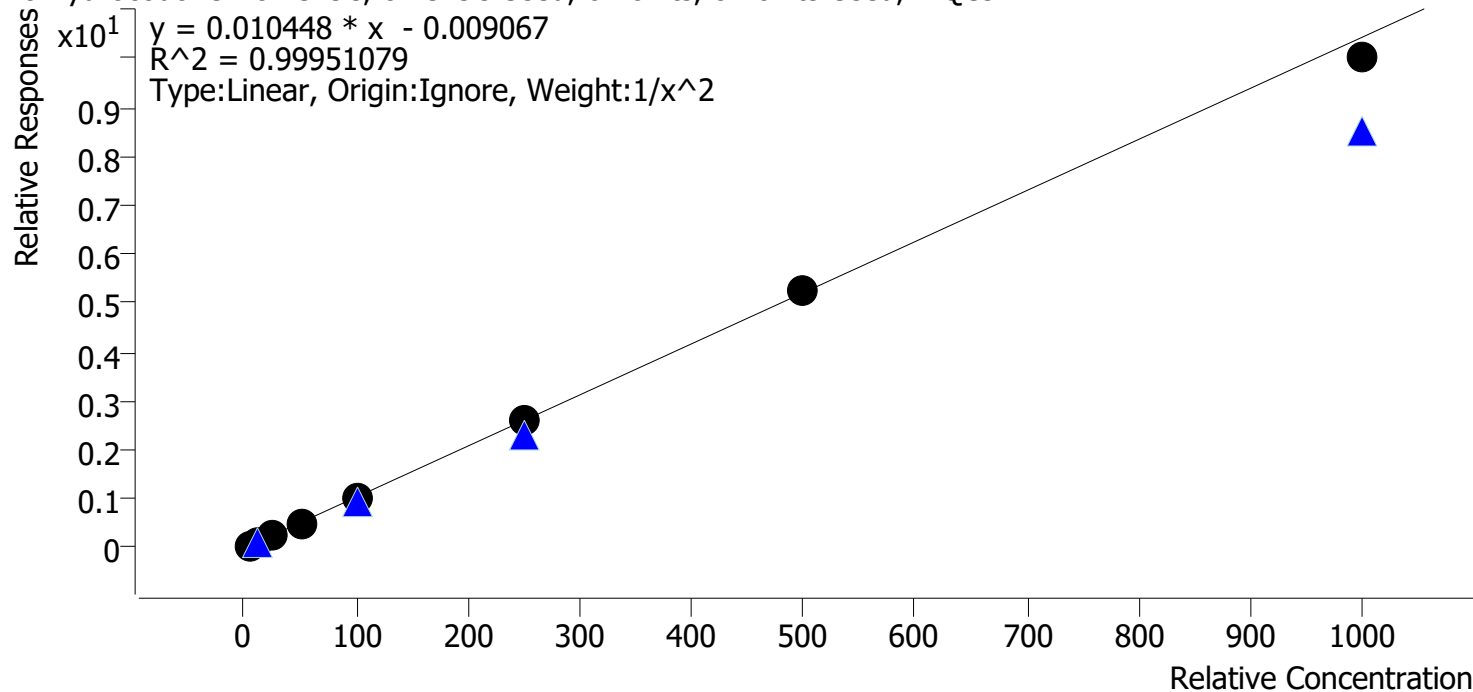
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	96.1
cal 2 mdq	2	✓	1.0	1.0	101.9
cal 3 mdq	3	✓	2.5	2.7	109.5
cal 4 mdq	4	✓	5.0	5.5	110.6
cal 5 mdq	5	✓	10.0	10.6	106.0
cal 6 mdq	6	✓	25.0	23.7	95.0
cal 7 mdq	7	✓	50.0	40.5	80.9
cal 8 mdq	8	x	100.0	71.7	71.7

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



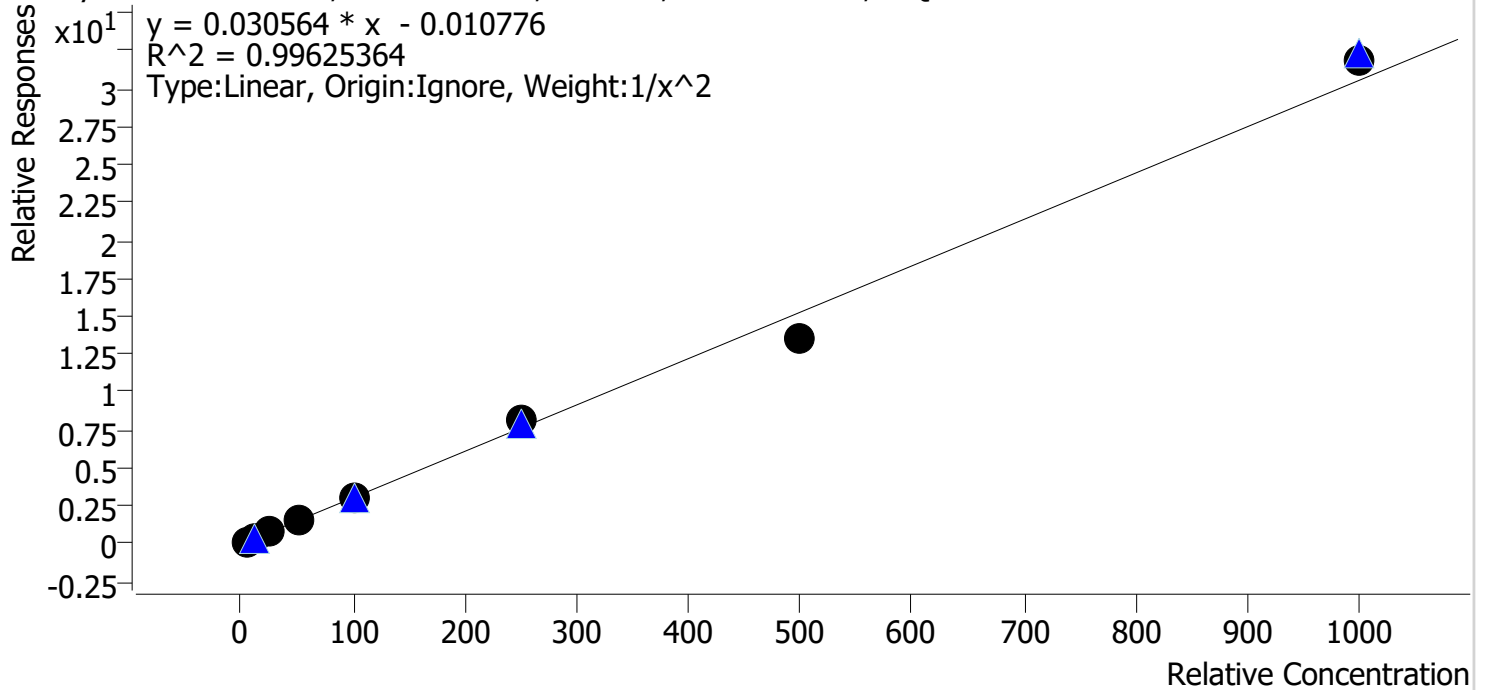
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.7
cal 2 mdq	2	✓	10.0	10.2	102.0
cal 3 mdq	3	✓	25.0	25.3	101.0
cal 4 mdq	4	✓	50.0	50.3	100.6
cal 5 mdq	5	✓	100.0	99.4	99.4
cal 6 mdq	6	✓	250.0	252.5	101.0
cal 7 mdq	7	✓	500.0	506.0	101.2
cal 8 mdq	8	✓	1000.0	960.1	96.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

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

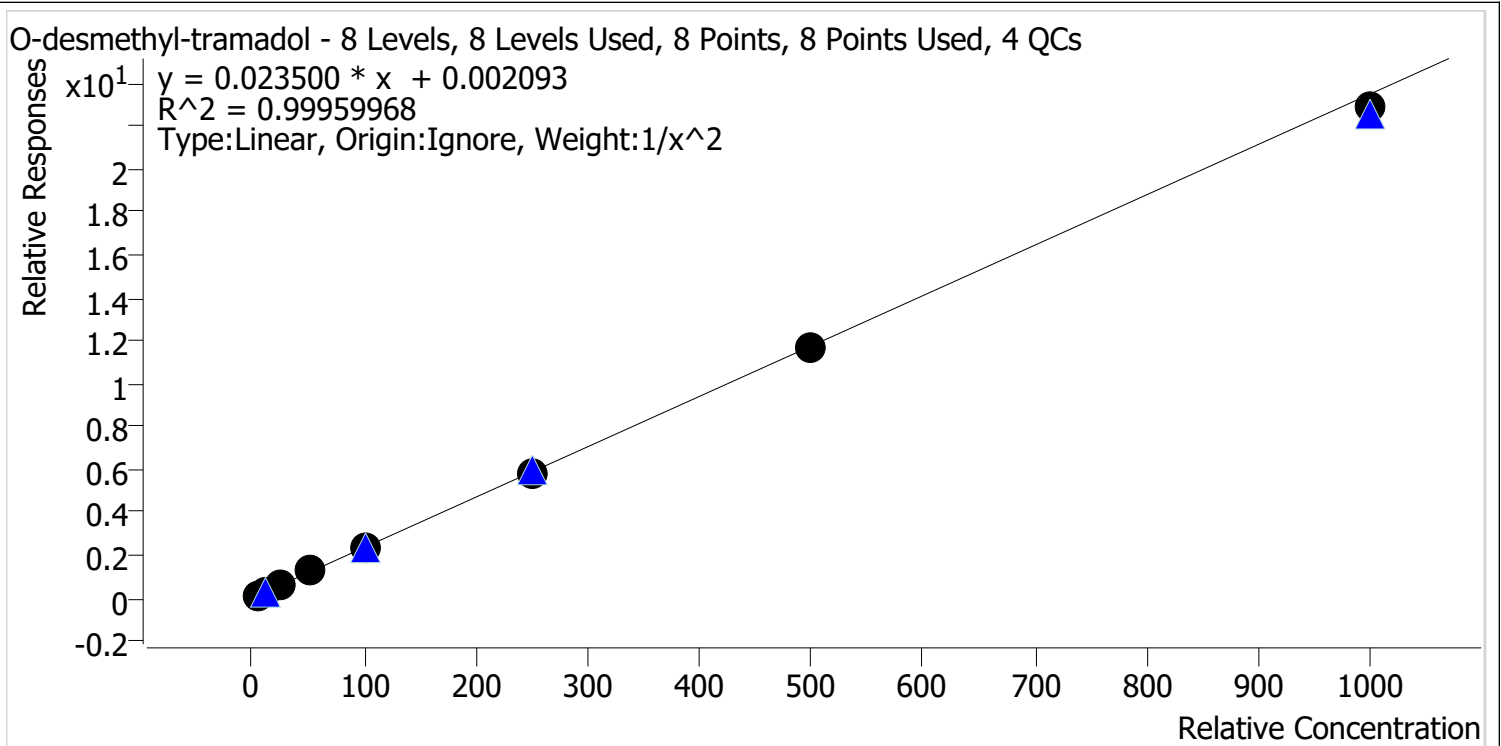


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.8
cal 2 mdq	2	✓	10.0	10.1	100.8
cal 3 mdq	3	✓	25.0	24.3	97.4
cal 4 mdq	4	✓	50.0	51.1	102.3
cal 5 mdq	5	✓	100.0	100.7	100.7
cal 6 mdq	6	✓	250.0	264.5	105.8
cal 7 mdq	7	✓	500.0	443.0	88.6
cal 8 mdq	8	✓	1000.0	1046.0	104.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



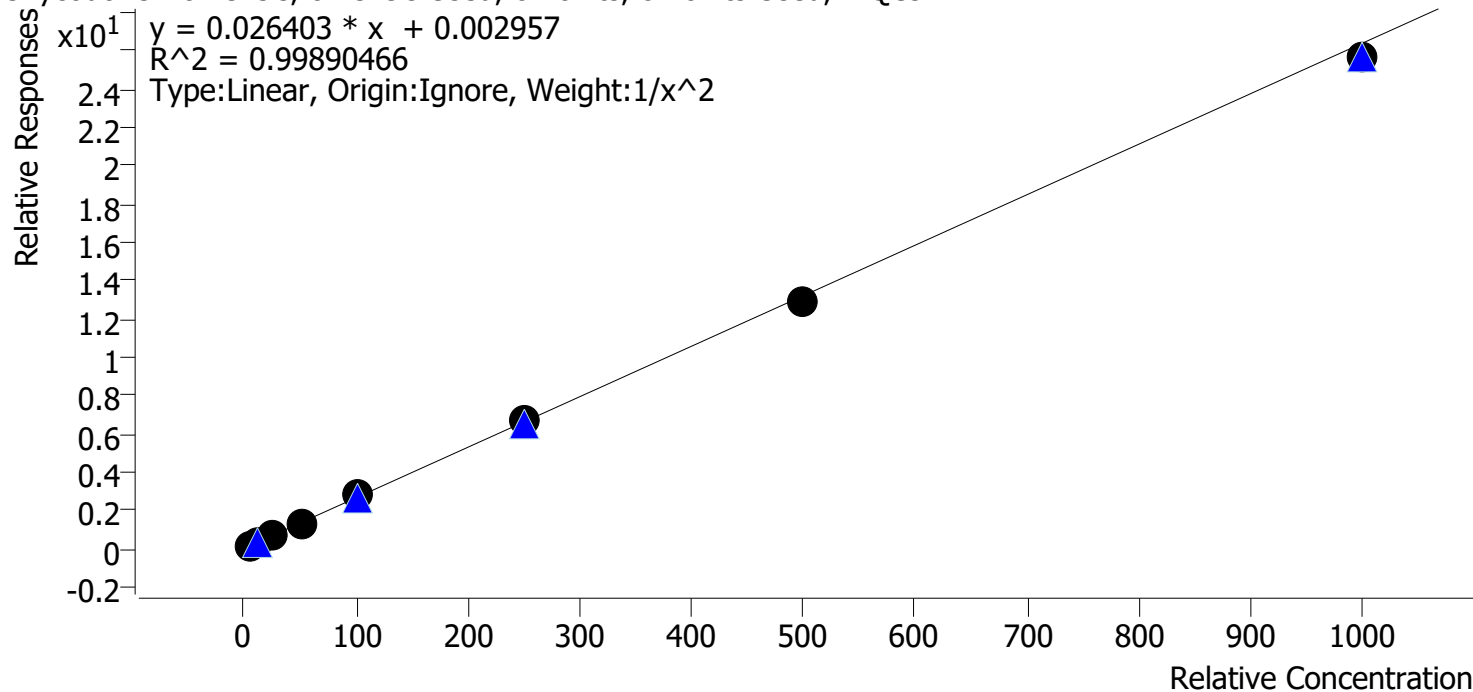
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	99.6
cal 2 mdq	2	✓	10.0	10.0	99.7
cal 3 mdq	3	✓	25.0	25.2	100.8
cal 4 mdq	4	✓	50.0	51.7	103.4
cal 5 mdq	5	✓	100.0	100.6	100.6
cal 6 mdq	6	✓	250.0	248.6	99.4
cal 7 mdq	7	✓	500.0	495.2	99.0
cal 8 mdq	8	✓	1000.0	973.7	97.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

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



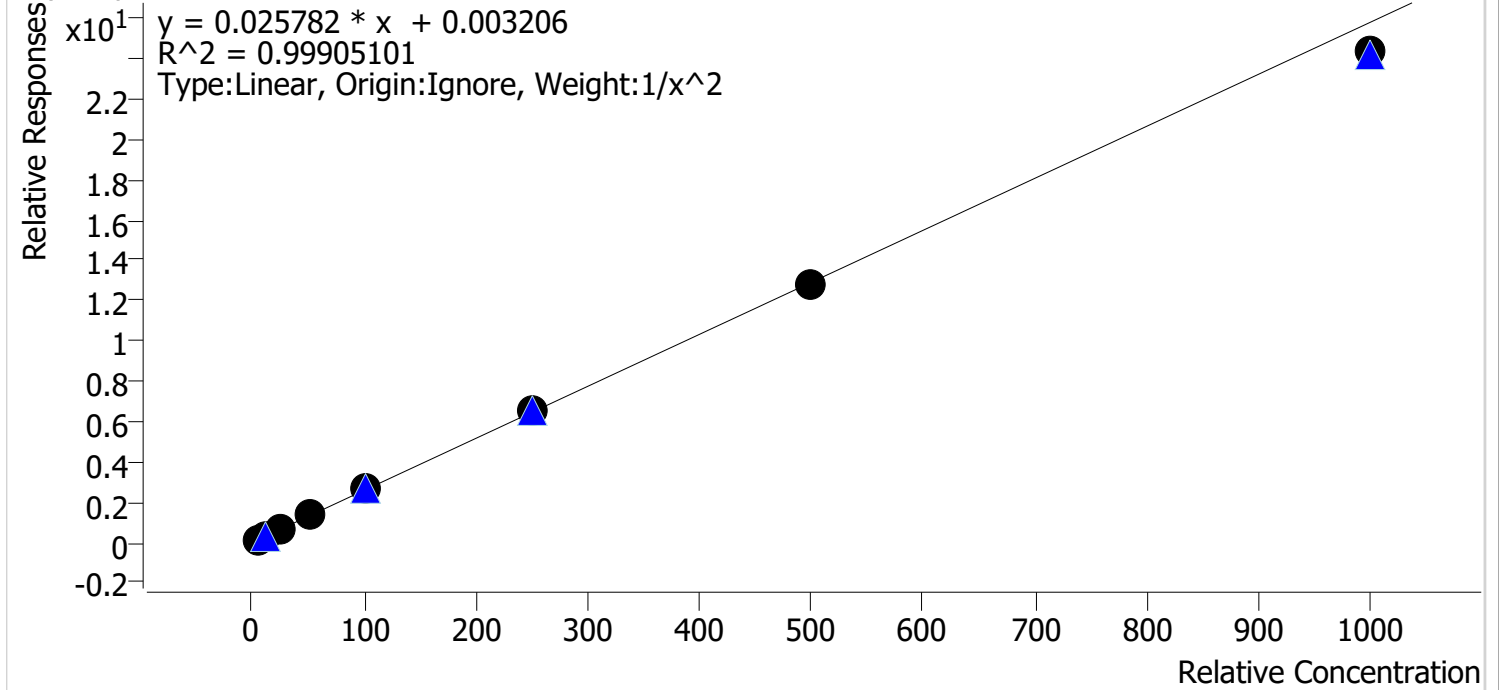
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.4
cal 2 mdq	2	✓	10.0	10.2	101.9
cal 3 mdq	3	✓	25.0	26.0	104.1
cal 4 mdq	4	✓	50.0	48.5	97.0
cal 5 mdq	5	✓	100.0	103.2	103.2
cal 6 mdq	6	✓	250.0	251.8	100.7
cal 7 mdq	7	✓	500.0	488.2	97.6
cal 8 mdq	8	✓	1000.0	970.4	97.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

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



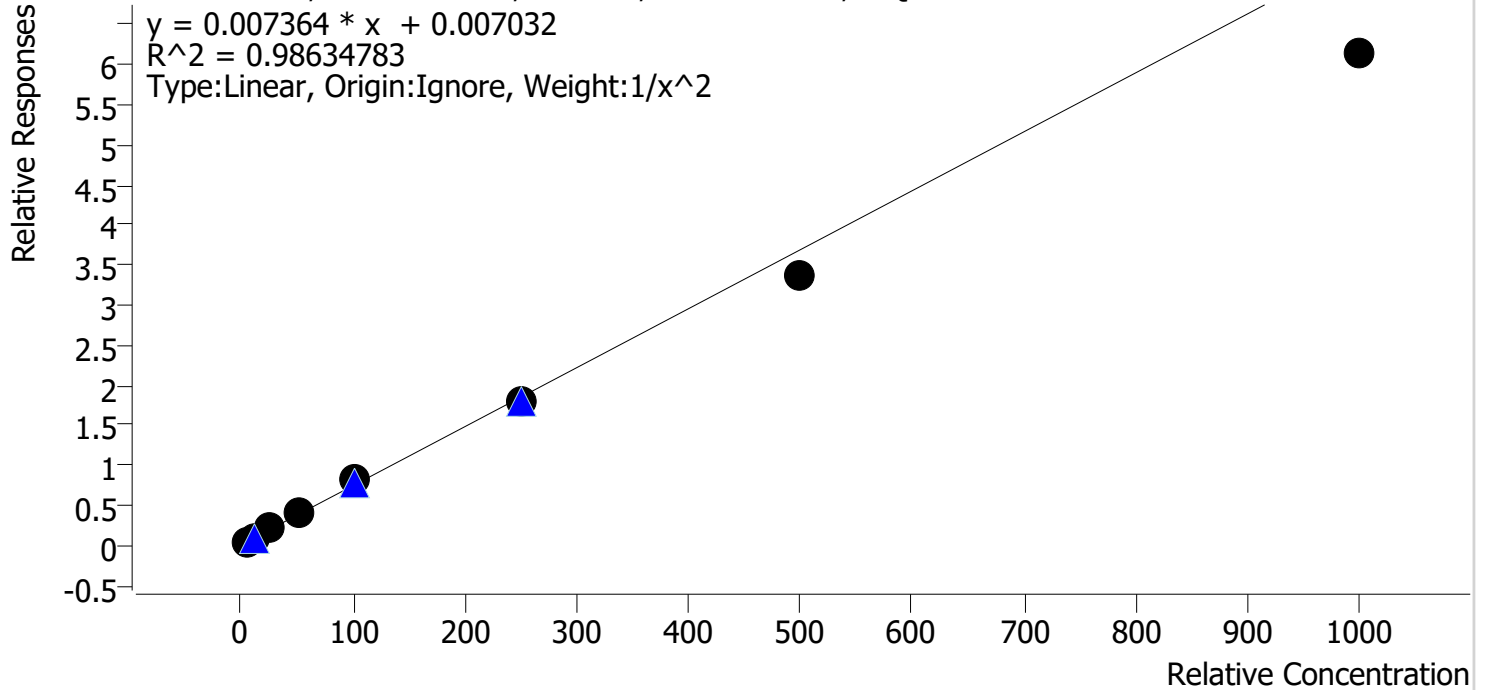
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.2
cal 2 mdq	2	✓	10.0	9.9	98.7
cal 3 mdq	3	✓	25.0	25.2	100.8
cal 4 mdq	4	✓	50.0	50.6	101.1
cal 5 mdq	5	✓	100.0	102.6	102.6
cal 6 mdq	6	✓	250.0	256.8	102.7
cal 7 mdq	7	✓	500.0	497.0	99.4
cal 8 mdq	8	✓	1000.0	943.7	94.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5

Phentermine - 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	94.2
cal 2 mdq	2	✓	10.0	10.5	104.9
cal 3 mdq	3	✓	25.0	27.6	110.3
cal 4 mdq	4	✓	50.0	56.0	112.0
cal 5 mdq	5	✓	100.0	107.5	107.5
cal 6 mdq	6	✓	250.0	241.5	96.6
cal 7 mdq	7	✓	500.0	456.5	91.3
cal 8 mdq	8	✓	1000.0	832.7	83.3

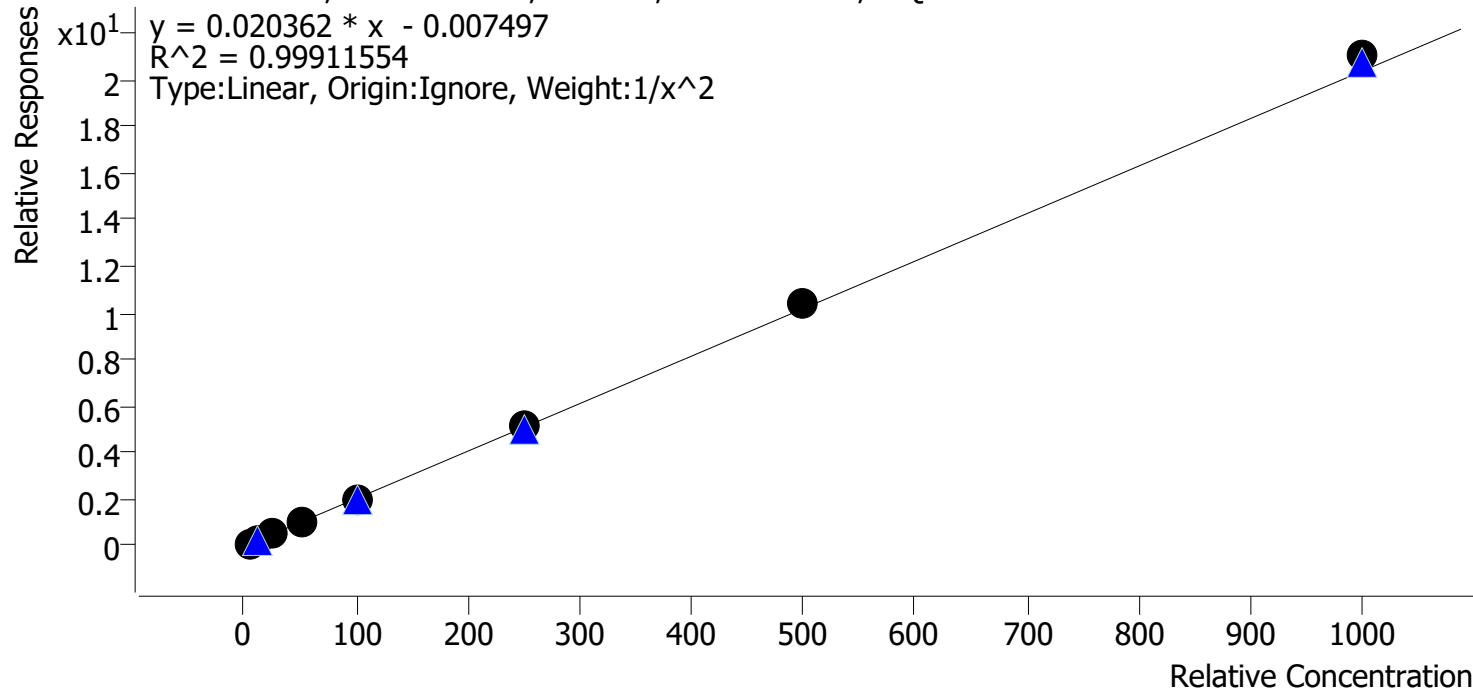


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

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



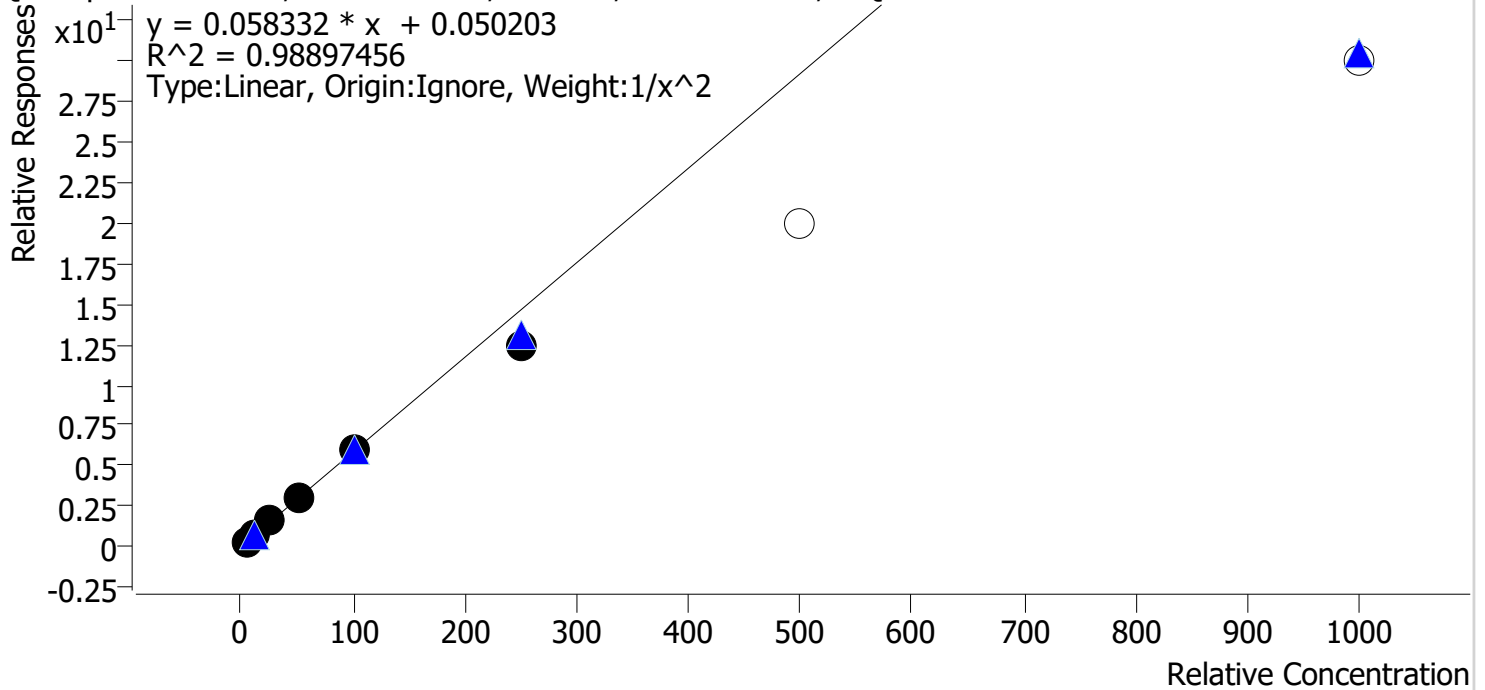
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.1
cal 2 mdq	2	✓	10.0	9.9	99.1
cal 3 mdq	3	✓	25.0	24.7	98.7
cal 4 mdq	4	✓	50.0	48.7	97.5
cal 5 mdq	5	✓	100.0	96.0	96.0
cal 6 mdq	6	✓	250.0	254.5	101.8
cal 7 mdq	7	✓	500.0	512.9	102.6
cal 8 mdq	8	✓	1000.0	1032.7	103.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

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



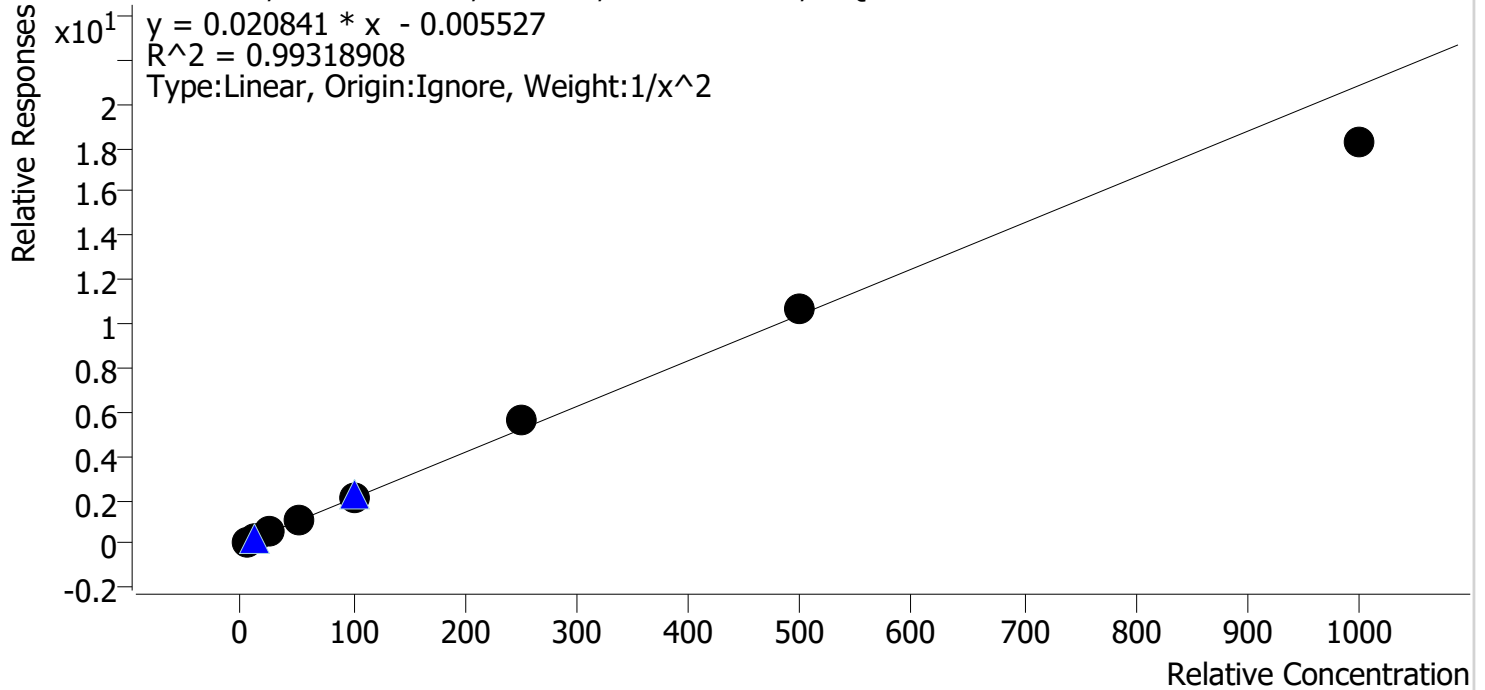
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.5
cal 2 mdq	2	✓	10.0	10.3	102.8
cal 3 mdq	3	✓	25.0	27.2	108.7
cal 4 mdq	4	✓	50.0	52.6	105.1
cal 5 mdq	5	✓	100.0	102.4	102.4
cal 6 mdq	6	✓	250.0	211.1	84.4
cal 7 mdq	7	✗	500.0	340.8	68.2
cal 8 mdq	8	✗	1000.0	514.6	51.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



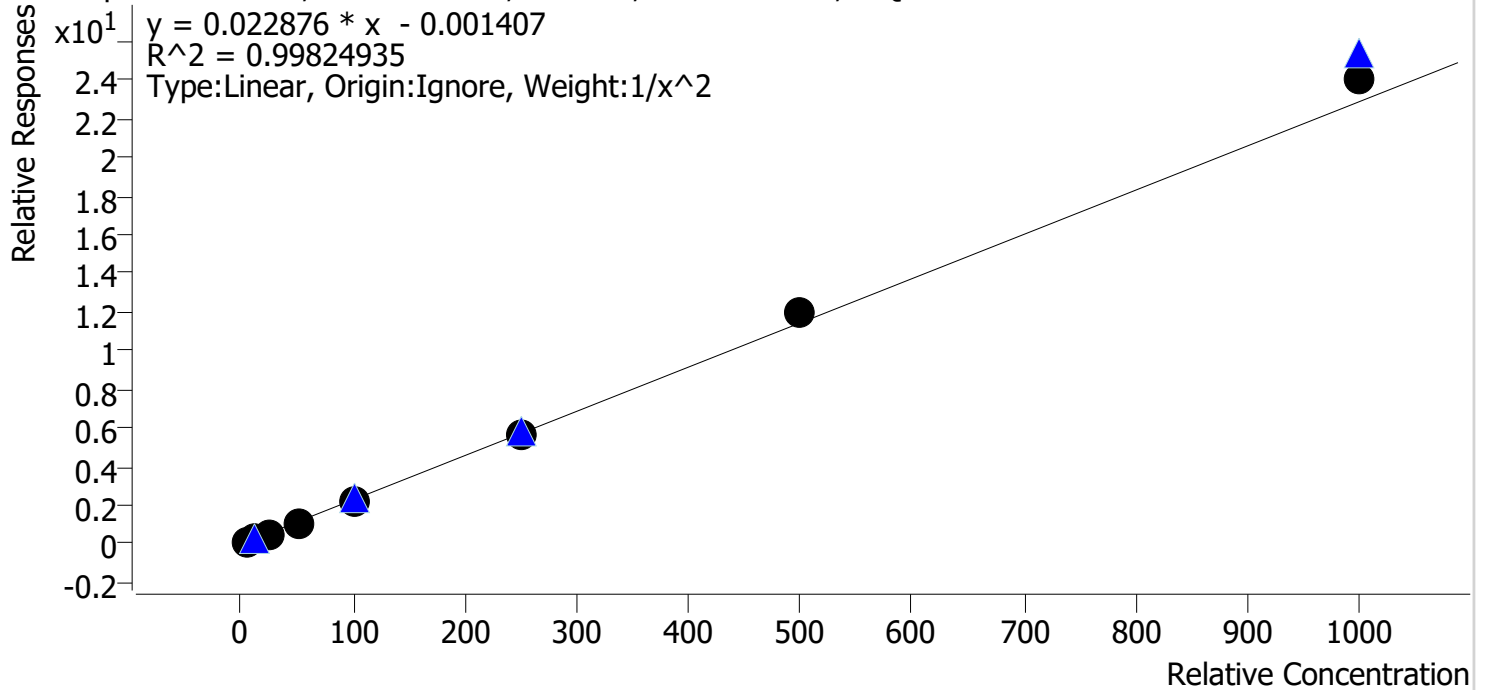
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	103.1
cal 2 mdq	2	✓	10.0	9.2	92.5
cal 3 mdq	3	✓	25.0	24.9	99.6
cal 4 mdq	4	✓	50.0	53.0	106.0
cal 5 mdq	5	✓	100.0	99.3	99.3
cal 6 mdq	6	✓	250.0	274.3	109.7
cal 7 mdq	7	✓	500.0	511.6	102.3
cal 8 mdq	8	✓	1000.0	873.9	87.4

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5

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



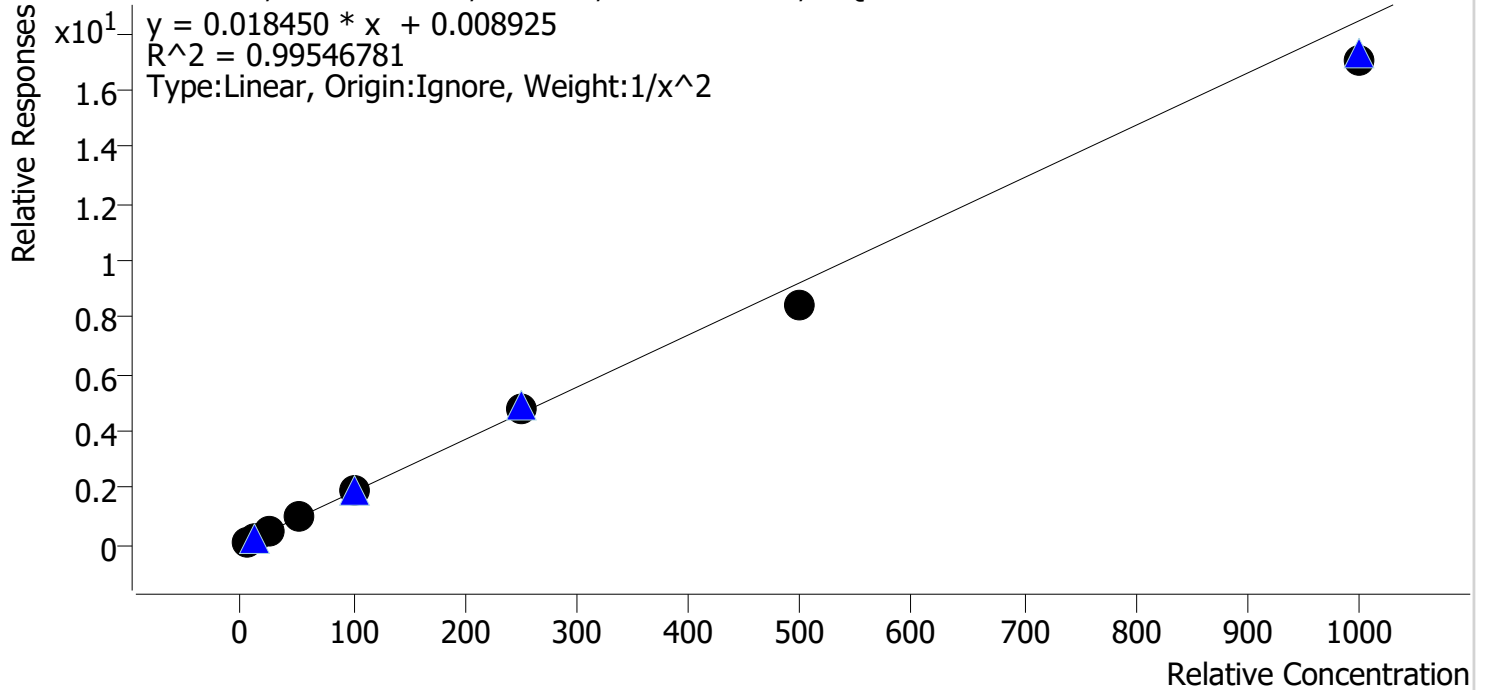
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.2	103.1
cal 2 mdq	2	✓	10.0	9.5	95.5
cal 3 mdq	3	✓	25.0	24.3	97.1
cal 4 mdq	4	✓	50.0	48.9	97.8
cal 5 mdq	5	✓	100.0	98.0	98.0
cal 6 mdq	6	✓	250.0	247.7	99.1
cal 7 mdq	7	✓	500.0	522.4	104.5
cal 8 mdq	8	✓	1000.0	1049.1	104.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 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



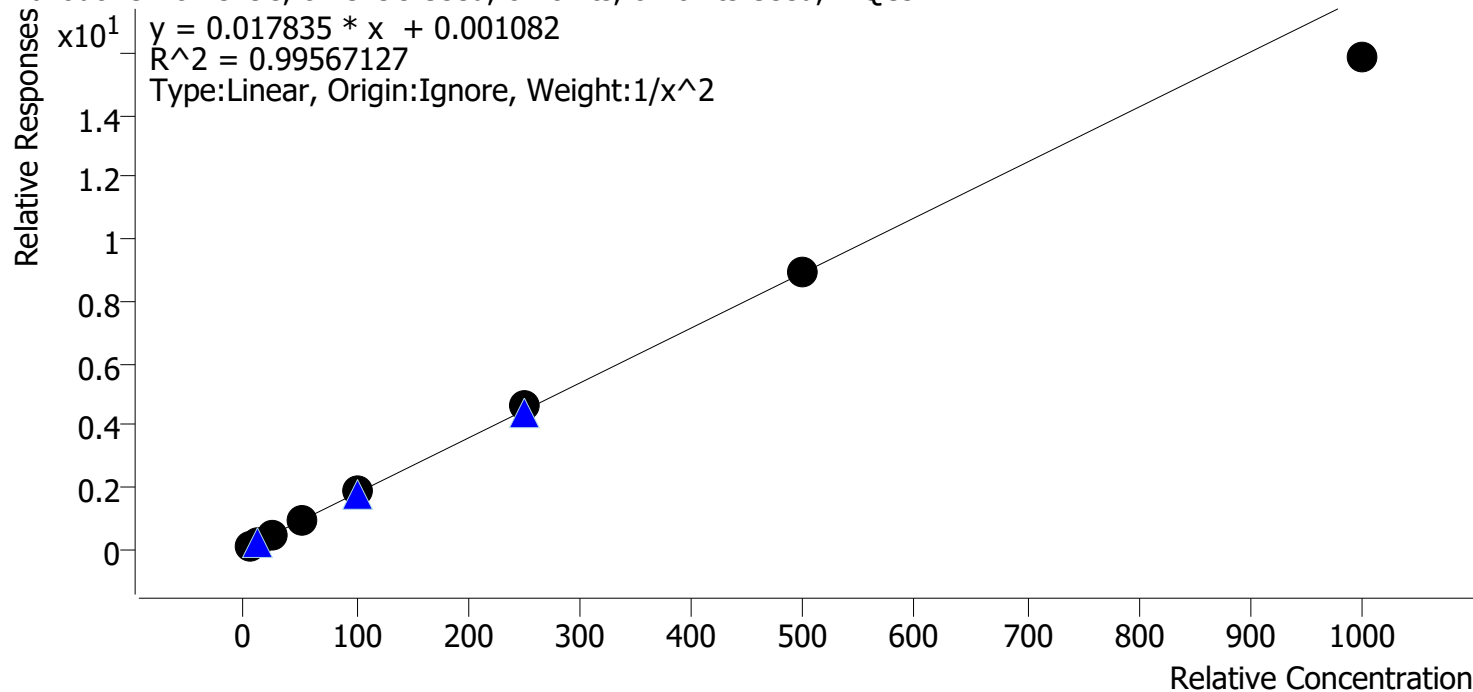
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	98.0
cal 2 mdq	2	✓	10.0	10.0	99.6
cal 3 mdq	3	✓	25.0	27.2	108.9
cal 4 mdq	4	✓	50.0	51.7	103.4
cal 5 mdq	5	✓	100.0	103.1	103.1
cal 6 mdq	6	✓	250.0	257.4	103.0
cal 7 mdq	7	✓	500.0	459.0	91.8
cal 8 mdq	8	✓	1000.0	922.6	92.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

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



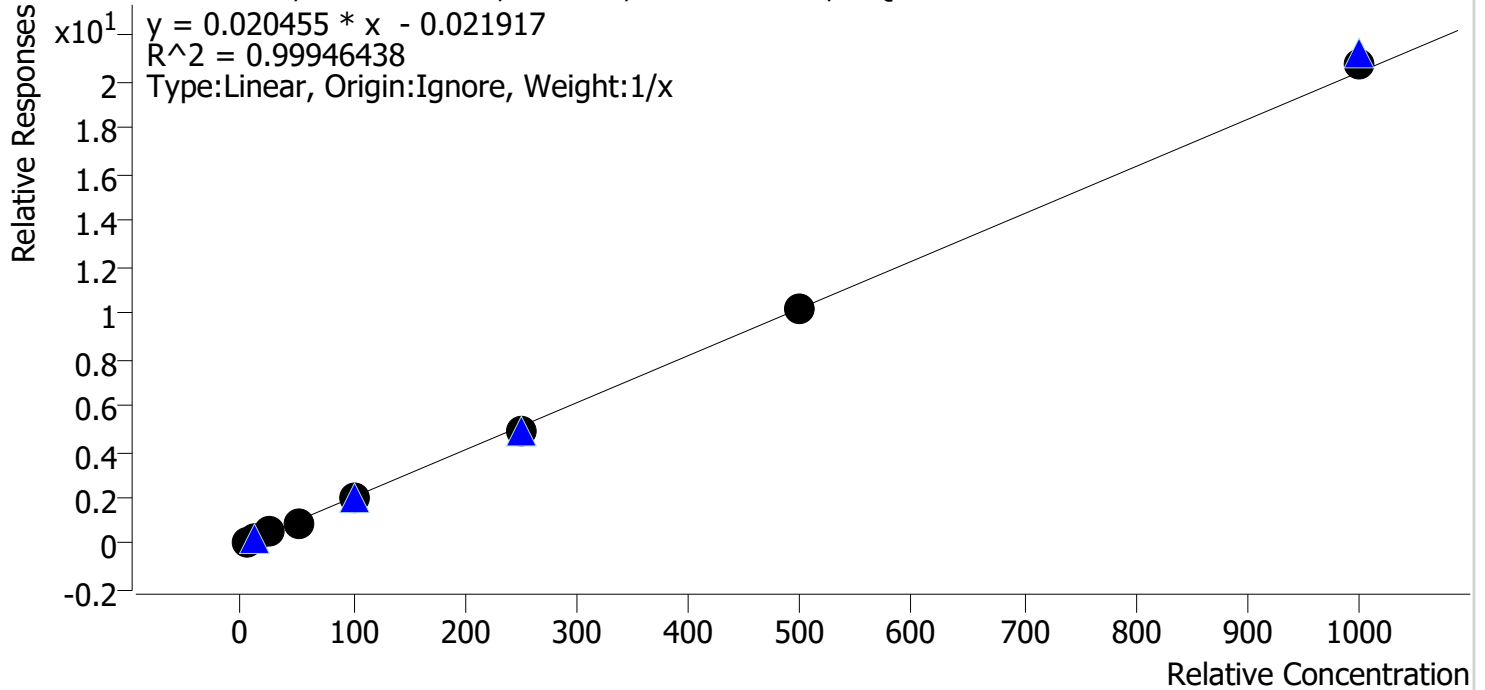
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.1	101.7
cal 2 mdq	2	✓	10.0	9.5	94.7
cal 3 mdq	3	✓	25.0	25.0	100.1
cal 4 mdq	4	✓	50.0	53.4	106.9
cal 5 mdq	5	✓	100.0	104.5	104.5
cal 6 mdq	6	✓	250.0	257.7	103.1
cal 7 mdq	7	✓	500.0	500.5	100.1
cal 8 mdq	8	✓	1000.0	890.0	89.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6

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



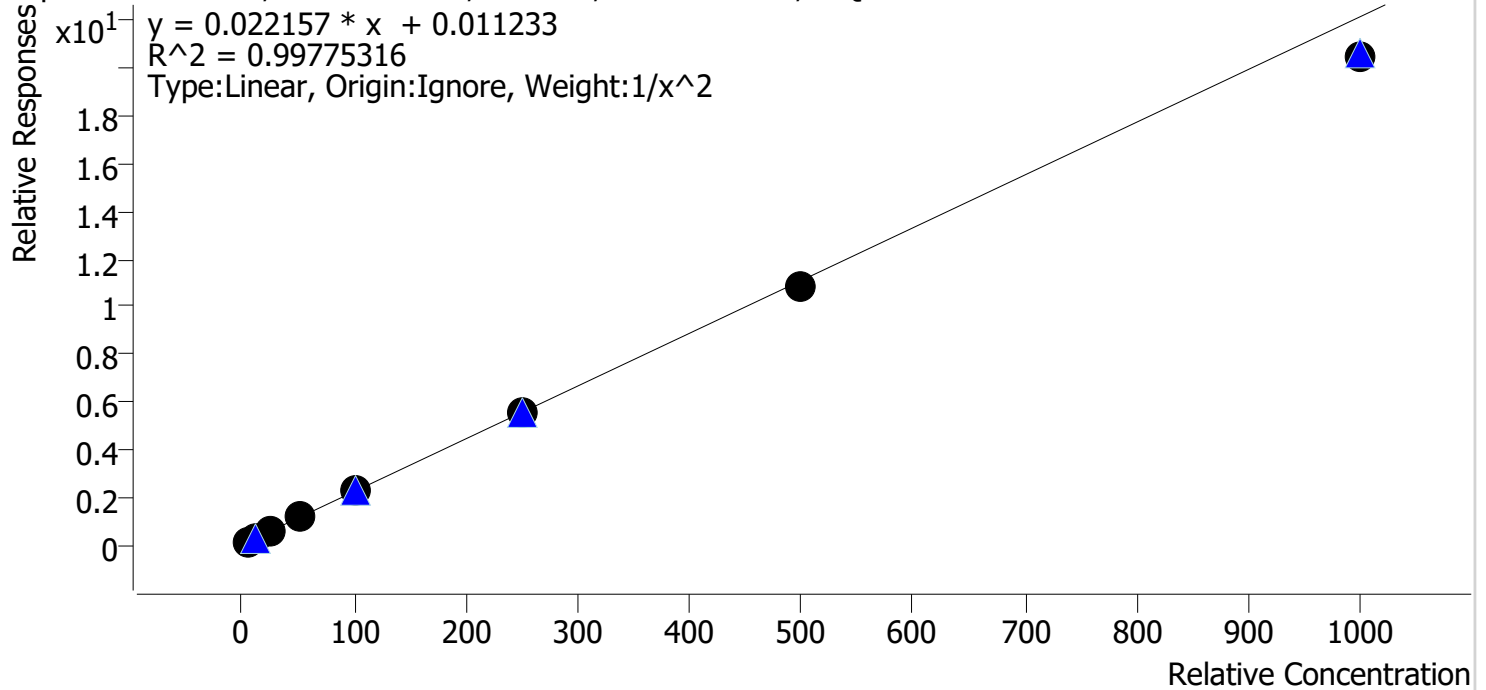
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.6	113.0
cal 2 mdq	2	✓	10.0	10.2	102.4
cal 3 mdq	3	✓	25.0	24.0	96.0
cal 4 mdq	4	✓	50.0	47.5	94.9
cal 5 mdq	5	✓	100.0	95.3	95.3
cal 6 mdq	6	✓	250.0	243.2	97.3
cal 7 mdq	7	✓	500.0	497.7	99.5
cal 8 mdq	8	✓	1000.0	1016.5	101.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.9
cal 2 mdq	2	✓	10.0	10.2	101.6
cal 3 mdq	3	✓	25.0	25.9	103.8
cal 4 mdq	4	✓	50.0	52.1	104.1
cal 5 mdq	5	✓	100.0	103.5	103.5
cal 6 mdq	6	✓	250.0	249.4	99.8
cal 7 mdq	7	✓	500.0	485.4	97.1
cal 8 mdq	8	✓	1000.0	922.5	92.2

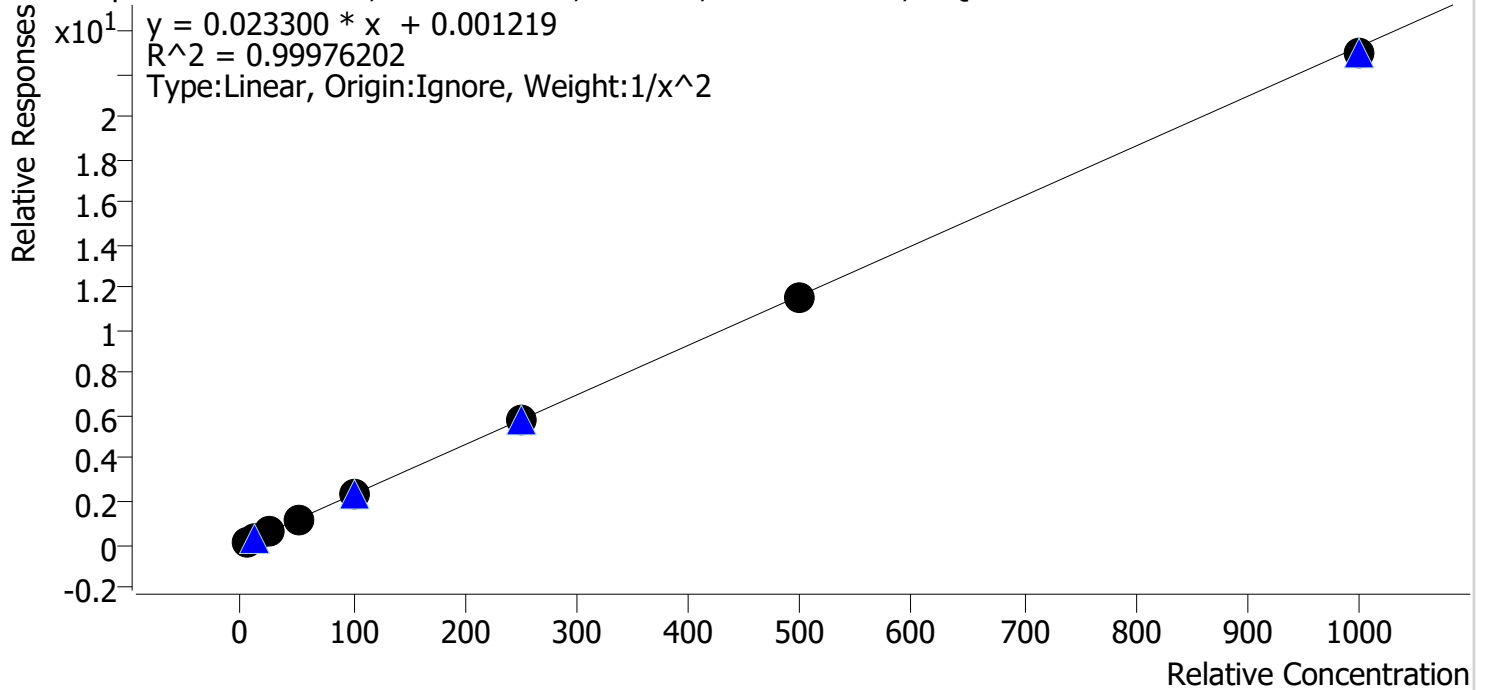


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Pseudoephedrine **Internal Standard** Pseudoephedrine-D3

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



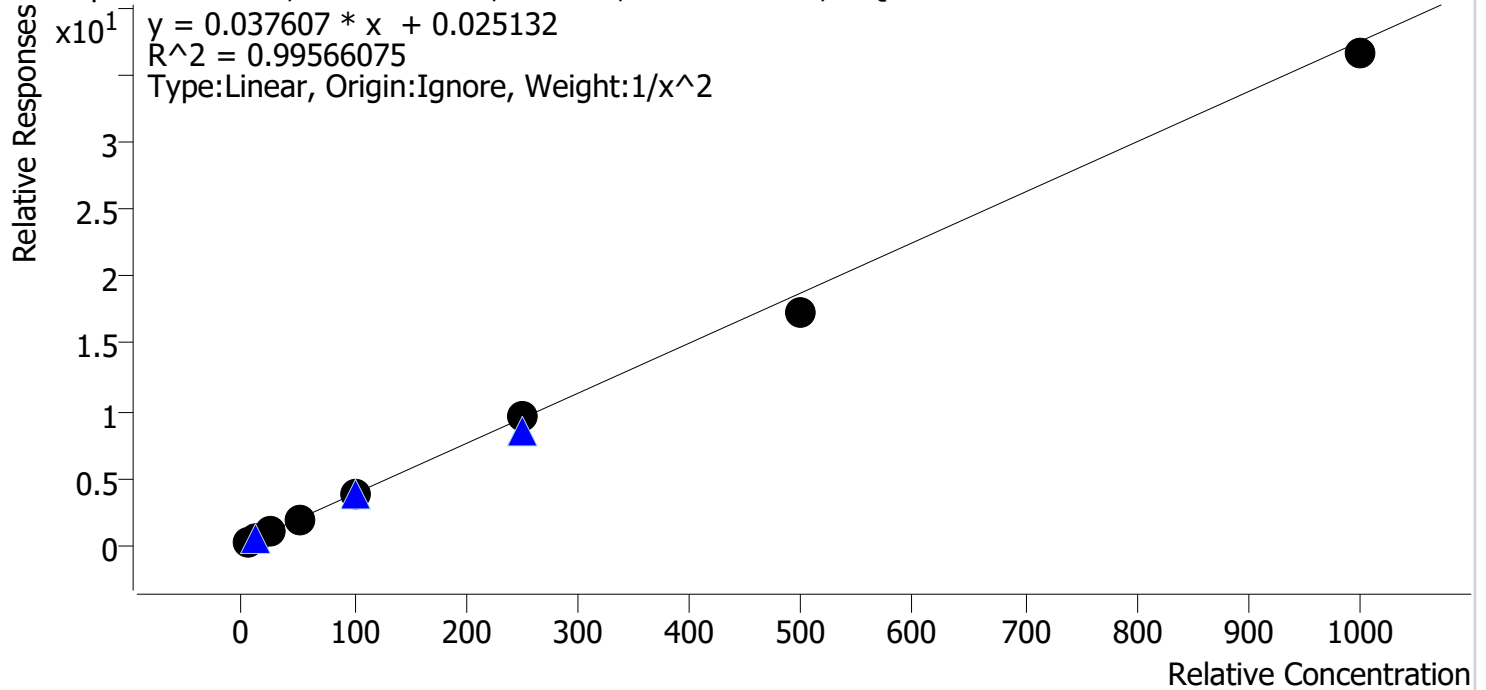
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	5.0	100.4
cal 2 mdq	2	✓	10.0	9.8	98.2
cal 3 mdq	3	✓	25.0	25.6	102.5
cal 4 mdq	4	✓	50.0	50.3	100.7
cal 5 mdq	5	✓	100.0	99.5	99.5
cal 6 mdq	6	✓	250.0	251.3	100.5
cal 7 mdq	7	✓	500.0	498.3	99.7
cal 8 mdq	8	✓	1000.0	986.1	98.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Olanzapine **Internal Standard** Olanzapine-d8

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



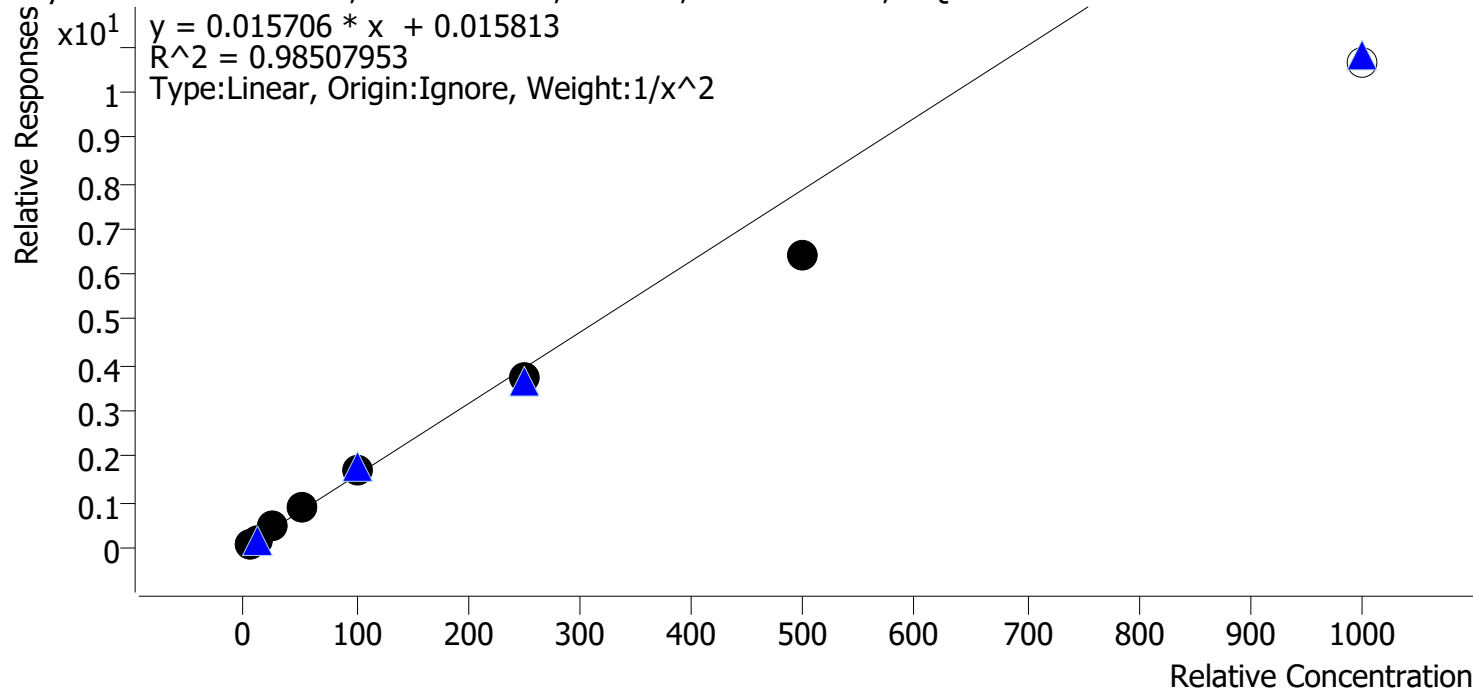
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.9	97.3
cal 2 mdq	2	✓	10.0	10.1	101.1
cal 3 mdq	3	✓	25.0	28.0	112.1
cal 4 mdq	4	✓	50.0	49.0	98.1
cal 5 mdq	5	✓	100.0	97.9	97.9
cal 6 mdq	6	✓	250.0	257.7	103.1
cal 7 mdq	7	✓	500.0	464.2	92.8
cal 8 mdq	8	✓	1000.0	975.7	97.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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



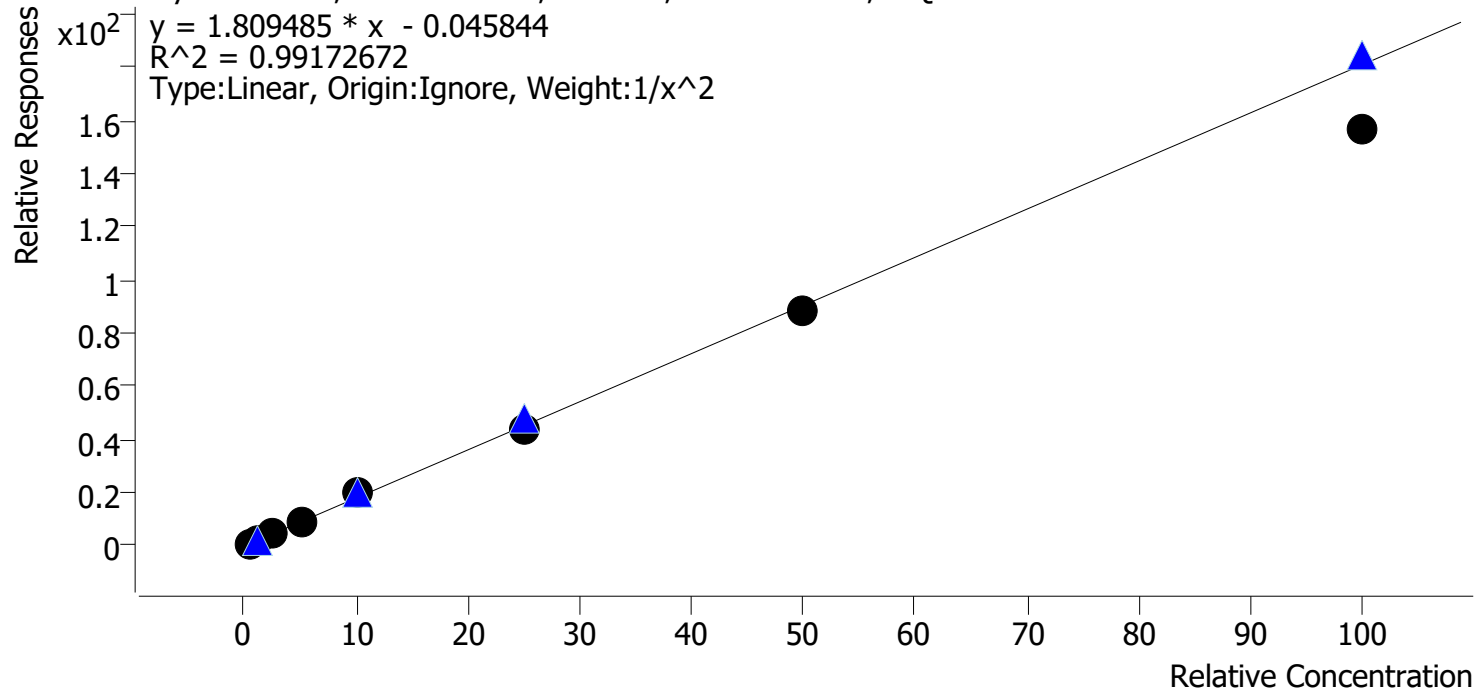
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.7	95.0
cal 2 mdq	2	✓	10.0	10.4	104.2
cal 3 mdq	3	✓	25.0	27.5	110.0
cal 4 mdq	4	✓	50.0	54.4	108.8
cal 5 mdq	5	✓	100.0	106.8	106.8
cal 6 mdq	6	✓	250.0	234.6	93.8
cal 7 mdq	7	✓	500.0	407.0	81.4
cal 8 mdq	8	✗	1000.0	675.0	67.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluorofentanyl **Internal Standard** Fluorofentanyl-D5

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



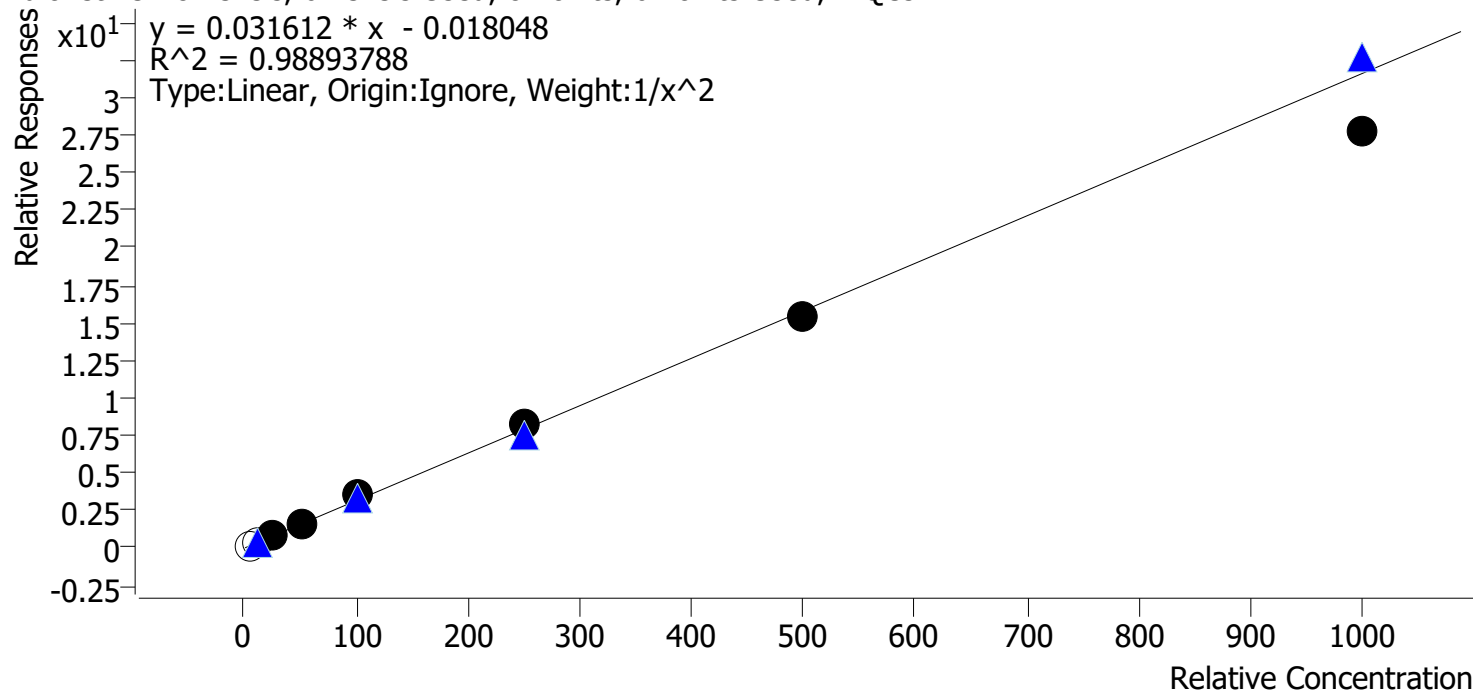
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	0.5	0.5	100.4
cal 2 mdq	2	✓	1.0	0.9	94.3
cal 3 mdq	3	✓	2.5	2.7	108.3
cal 4 mdq	4	✓	5.0	5.1	102.9
cal 5 mdq	5	✓	10.0	11.2	111.6
cal 6 mdq	6	✓	25.0	24.5	98.0
cal 7 mdq	7	✓	50.0	49.1	98.2
cal 8 mdq	8	✓	100.0	86.3	86.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Duloxetine **Internal Standard** Duloxetine-d3

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



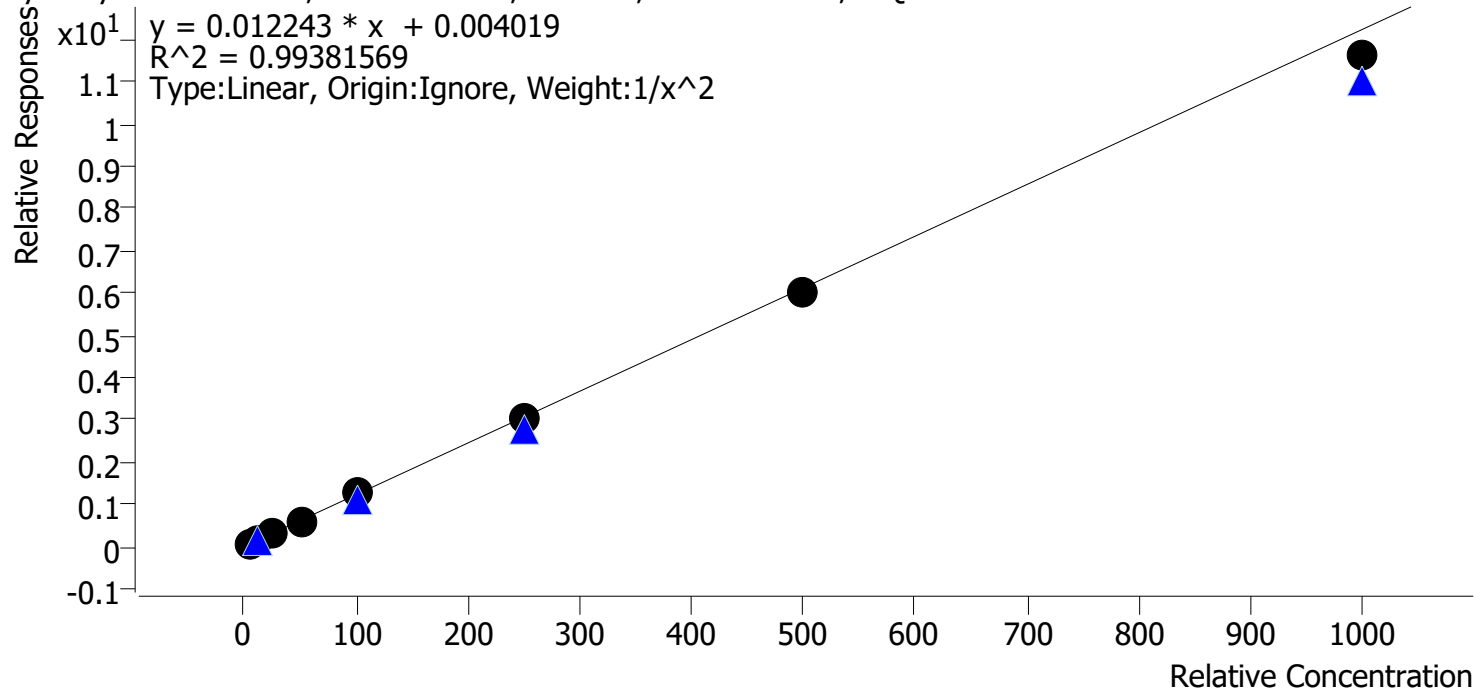
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	x	5.0	5.0	100.2
cal 2 mdq	2	x	10.0	9.9	98.8
cal 3 mdq	3	✓	25.0	24.0	95.9
cal 4 mdq	4	✓	50.0	50.9	101.9
cal 5 mdq	5	✓	100.0	113.1	113.1
cal 6 mdq	6	✓	250.0	258.9	103.6
cal 7 mdq	7	✓	500.0	489.1	97.8
cal 8 mdq	8	✓	1000.0	878.1	87.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydroxyzine **Internal Standard** Pseudoephedrine-D3

Hydroxyzine - 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	9.4	93.8
cal 3 mdq	3	✓	25.0	28.4	113.5
cal 4 mdq	4	✓	50.0	46.6	93.1
cal 5 mdq	5	✓	100.0	105.6	105.6
cal 6 mdq	6	✓	250.0	247.9	99.2
cal 7 mdq	7	✓	500.0	494.6	98.9
cal 8 mdq	8	✓	1000.0	949.5	94.9

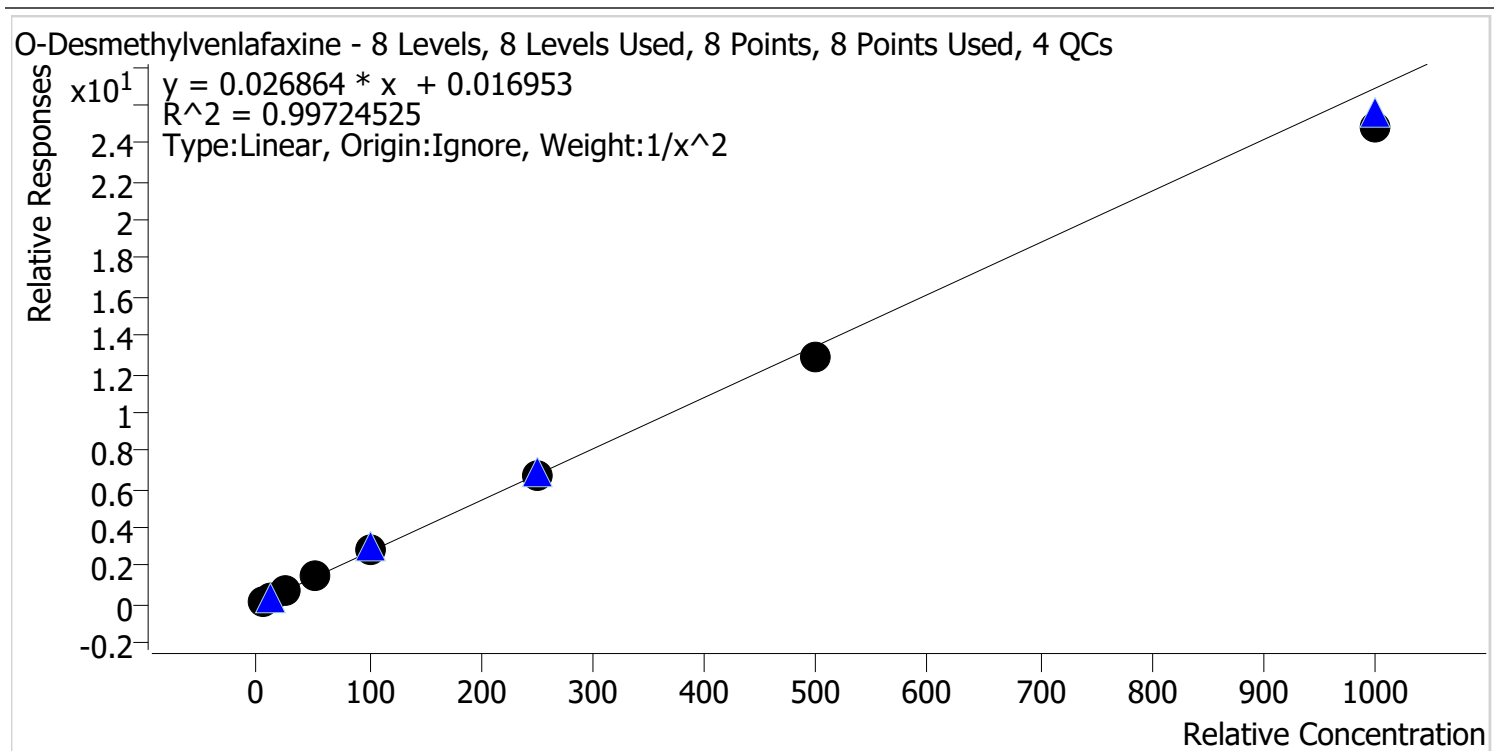
# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Last Cal. Update** 8/28/2023 9:26 AM  
**Analyst Name** ISP\datastor  
**Analyte** O-Desmethylvenlafaxine

**Internal Standard**

O-Desmethylvenlafaxine-d6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq	1	✓	5.0	4.8	96.7
cal 2 mdq	2	✓	10.0	10.3	103.4
cal 3 mdq	3	✓	25.0	26.7	106.7
cal 4 mdq	4	✓	50.0	50.8	101.6
cal 5 mdq	5	✓	100.0	102.9	102.9
cal 6 mdq	6	✓	250.0	249.6	99.9
cal 7 mdq	7	✓	500.0	480.8	96.2
cal 8 mdq	8	✓	1000.0	926.9	92.7

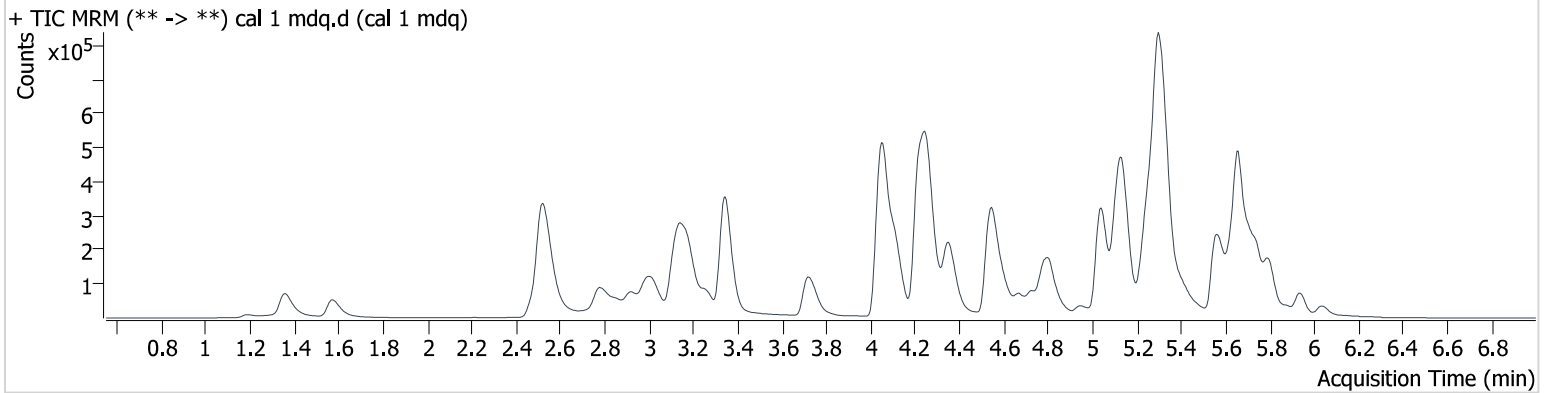
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-A6  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 2:33:14 PM  
**Sample Info.**

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

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.132	1458	5472.2	141.23	8835.3	92261	0.502 ng/ml
7-aminoclonazepam	4.242	10759	50576.7	109.94	∞	103886	4.827 ng/ml
a-hydroxyalprazolam	5.688	1242	∞	67.79	1557.3	16217	5.249 ng/ml
alpha-PHP	4.947	24544	13094.4	245.51	3859.4	265465	5.075 ng/ml
alpha-PVP	4.362	75098	23997.4	55.91	1338.2	613174	5.108 ng/ml
Alprazolam	5.751	21746	382.3	95.71	2835.2	182986	4.937 ng/ml
Amphetamine	3.009	41693	2250.9	241.09	4952.9	265465	4.712 ng/ml
Benzoylcegonine	3.842	1615	230.1	46.85	60.7	12241	5.168 ng/ml
Buprenorphine	6.064	3868	173.0	13.96	113.3	98715	0.522 ng/ml
Bupropion	4.808	75564	2285.1	77.10	911.4	545839	5.060 ng/ml
Carisoprodol	5.707	24103	∞	65.63	2797.6	177738	4.963 ng/ml
Citalopram	5.233	63589	2366.8	37.94	84143.6	571269	4.947 ng/ml
Clonazepam	5.594	2311	363.8	43.49	593.3	11888	4.999 ng/ml
Clonazepam	5.530	4392	1530.4	28.73 <b>Low</b>	439.2	29140	6.016 ng/ml
Cocaine	4.261	73257	135681.7	42.59	68732.3	1085730	5.049 ng/ml
Codeine	2.569	9519	∞	93.91	28271.8	88031	5.243 ng/ml
Cyclobenzaprine	5.633	55018	9510.5	10.66	602.3	333705	4.943 ng/ml
Dextromethorphan	5.272	47404	228129.2	70.71	∞	444664	5.051 ng/ml
Dextrorphan	4.115	57068	∞	47.03	64419.3	543688	5.412 ng/ml
Diazepam	5.944	15641	1201.6	93.19	6102.0	156755	4.974 ng/ml
Dihydrocodeine	2.517	22705	5639.1	64.51	1611.5	251111	4.750 ng/ml
Diphenhydramine	5.304	217269	∞	34.16	10017.8	1918905	5.064 ng/ml
Doxylamine	4.559	198525	14491.4	95.85	68834.0	1241004	5.010 ng/ml
Duloxetine	5.663	5756	78.8	9.71	9.9 <b>Low</b>	41008	5.011 ng/ml
EDDP	5.261	65298	7696.0	37.71	75326.0	608274	5.167 ng/ml
Etizolam	5.792	2714	845.9	450.09	5947.2	156755	4.783 ng/ml
Fentanyl	5.156	6663	362.8	137.48	631.2	621685	0.502 ng/ml
Fluorofentanyl	5.217	5356	273.9	121.46	435.8	6208	0.502 ng/ml
Fluoxetine	5.720	39549	∞	7.06	∞	290122	4.836 ng/ml
Hydrocodone	3.017	24224	702.7	39.04	442.5	295508	4.883 ng/ml
Hydromorphone	1.582	25393	763.7	69.52	1003.5	162167	5.022 ng/ml
Hydroxyzine	5.739	76227	23808.0	109.98	23752.8	1159477	5.041 ng/ml
Ketamine	4.081	47441	∞	37.75	727.5	421320	5.127 ng/ml





# AM #28 Multi-Drug Quant. Results

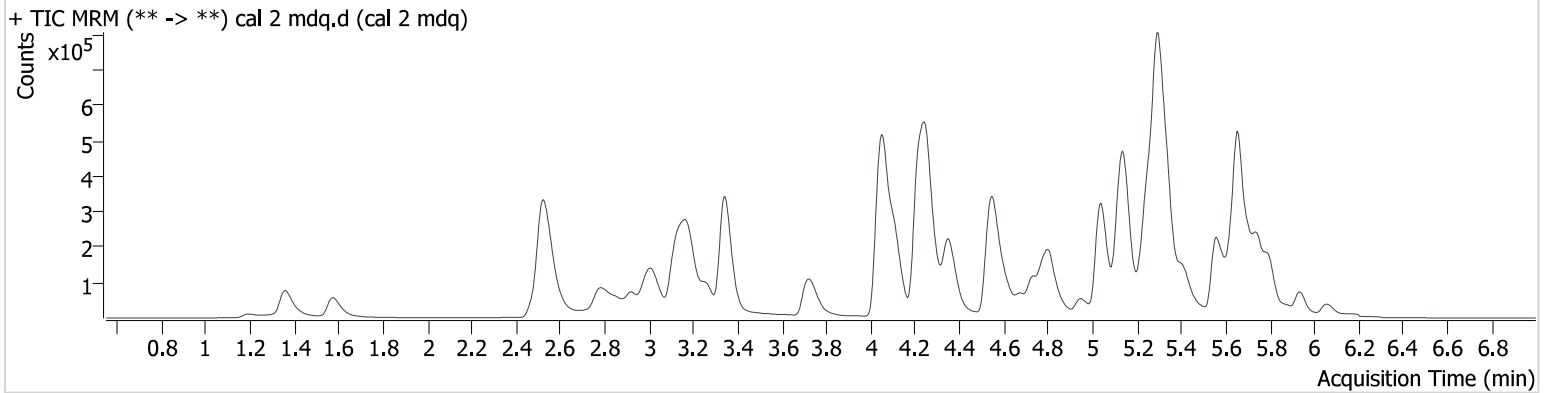
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.305	4672	415.8	102.30	782.4	265465	4.795 ng/ml
Lorazepam	5.735	1597	∞	39.23	6.5 <b>Low</b>	25615	1.833 ng/ml
MDA	3.171	59829	388970.8	31.30	∞	462456	4.673 ng/ml
MDMA	3.268	55370	75242.6	96.30	17859.7	115733	4.940 ng/ml
Meprobamate	4.876	5031	300.6	53.23	125.6	41330	5.067 ng/ml
Methadone	5.663	132579	70460.9	49.27	∞	980648	5.033 ng/ml
Methamphetamine	3.187	191304	26369.4	37.14	2551.1	750958	4.744 ng/ml
Metoprolol	4.314	20850	∞	94.78	2552.1	462456	5.172 ng/ml
Mirtazapine	4.730	112573	122149.0	48.22	∞	1159477	5.076 ng/ml
Mitragynine	5.289	26052	64836.3	30.56	12479.6	1159477	5.054 ng/ml
Morphine	1.201	4214	∞	17.34	3538.8	10189	5.006 ng/ml
Norbuprenorphine	5.000	1423	182.5	100.64	51.2	24391	0.593 ng/ml
Nordiazepam	5.883	4621	609.1	61.23	942.1	29140	5.201 ng/ml
Norfentanyl	4.071	3682	758.5	29.65	123.1	842945	0.480 ng/ml
Norhydrocodone	3.048	4596	∞	27.94	∞	108090	4.937 ng/ml
Noroxycodone	2.884	18785	2393.8	48.25	∞	132503	4.991 ng/ml
O-desmethyl-tramadol	3.349	137784	31561.8	7.02	1153.0	1156184	4.982 ng/ml
O-Desmethylvenlafaxine	4.059	39407	108.2	519.95	27831.7	268249	4.837 ng/ml
Olanzapine	4.734	39369	14794.8	41.63	193.4	189111	4.867 ng/ml
Oxycodone	2.812	46738	2827.1	29.39	∞	351897	4.918 ng/ml
Oxymorphone	1.364	39695	∞	43.71	∞	299809	5.011 ng/ml
Phentermine	3.760	19258	228.5	11.41	134.6	461774	4.708 ng/ml
Promethazine	5.559	64642	106397.6	41.14	7852.5	677399	5.055 ng/ml
Pseudoephedrine	2.531	137007	44280.1	17.65	9829.5	1159477	5.019 ng/ml
Quetiapine	5.629	101883	46455.2	62.89	9216.8	307115	4.827 ng/ml
Sertraline	5.793	8898	726.4	109.22	5327.8	87298	5.156 ng/ml
Temazepam	5.804	20547	1515.6	28.62	81.1	176305	5.156 ng/ml
Tramadol	4.233	126983	607.6	4.49	451.3	1278685	4.899 ng/ml
Trazodone	5.394	67495	31843.5	144.64	88448.5	735256	5.086 ng/ml
Venlafaxine	5.039	104721	11153.5	37.18	668.7	1118392	5.649 ng/ml
Zolpidem	5.141	143455	∞	32.21	97552.3	1198011	4.897 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2 mdq
<b>Acq. Method</b>	mdqp1 72723.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B6	<b>Comment</b>	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.
<b>Injection Volume</b>	3		
<b>Acq. Date-Time</b>	8/24/2023 2:41:56 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.127	2608	∞	138.94	8645.5	83808	0.989 ng/ml
7-aminoclonazepam	4.242	16277	∞	114.97	∞	79581	10.214 ng/ml
a-hydroxyalprazolam	5.672	2248	∞	62.38	6005.6	13252	9.690 ng/ml
alpha-PHP	4.947	43675	11533.7	248.69	12802.7	233904	9.894 ng/ml
alpha-PVP	4.362	128504	∞	57.48	6852.2	543515	9.707 ng/ml
Alprazolam	5.756	42302	5622.2	94.30	284351.6	159564	10.422 ng/ml
Amphetamine	3.009	69602	5375.8	248.57	8736.1	233904	10.647 ng/ml
Benzoylcegonine	3.832	2898	148.6	42.36	119.0	10492	10.479 ng/ml
Buprenorphine	6.085	6035	299.6	16.07	98.3	90691	0.913 ng/ml
Bupropion	4.808	129192	∞	73.37	8712.1	477141	9.772 ng/ml
Carisoprodol	5.707	44491	∞	61.59	817.5	161200	9.908 ng/ml
Citalopram	5.233	114515	2965.5	38.09	98709.4	504219	10.215 ng/ml
Clonazepam	5.594	4525	514.4	32.76	304.1	9657	9.817 ng/ml
Clonazolam	5.530	7723	201.5	34.44	690.3	23729	10.395 ng/ml
Cocaine	4.256	122437	15204.7	45.15	∞	925672	9.903 ng/ml
Codeine	2.569	17515	5328.4	86.72	∞	81627	9.531 ng/ml
Cyclobenzaprine	5.638	84686	1539.7	8.59	115.3	257257	10.363 ng/ml
Dextromethorphan	5.272	79974	122893.1	70.12	∞	389029	9.796 ng/ml
Dextrorphan	4.115	101184	474106.7	44.85	27113.6	480635	10.255 ng/ml
Diazepam	5.939	28177	3322.5	83.13	1064.7	129912	10.131 ng/ml
Dihydrocodeine	2.523	40983	1941.4	65.16	1896.1	228351	10.420 ng/ml
Diphenhydramine	5.304	389845	106689.3	32.58	36513.7	1792298	9.759 ng/ml
Doxylamine	4.554	347277	16482.6	91.70	45737.9	1097799	9.917 ng/ml
Duloxetine	5.658	7980	53.1	8.34	88.4	27108	9.884 ng/ml
EDDP	5.261	118315	260812.7	41.57	∞	606876	9.446 ng/ml
Etizolam	5.802	4801	981.1	417.88	11158.5	129912	10.432 ng/ml
Fentanyl	5.156	10220	∞	153.15	11280.5	509966	0.959 ng/ml
Fluorofentanyl	5.222	8802	6963.9	98.15	9.6 Low	5299	0.943 ng/ml
Fluoxetine	5.720	54837	13569.6	6.29	2108.7	187773	10.631 ng/ml
Hydrocodone	3.017	41357	1237.0	41.73	1496.9	246471	10.240 ng/ml
Hydromorphone	1.582	44271	2506.8	71.70	1426.6	146008	9.824 ng/ml
Hydroxyzine	5.744	122717	26666.5	110.79	75158.9	1031909	9.385 ng/ml
Ketamine	4.076	77441	∞	38.20	1080.7	363877	9.595 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.305	8067	755.4	94.21	1041.1	233904	10.443 ng/ml
Lorazepam	5.725	3724	215.6	26.42 <b>Low</b>	5.0 <b>Low</b>	22385	8.696 ng/ml
MDA	3.171	108872	19659.6	30.34	∞	408127	10.667 ng/ml
MDMA	3.268	92738	∞	99.65	∞	94146	10.095 ng/ml
Meprobamate	4.876	8782	1493.1	50.36	360.7	35565	9.706 ng/ml
Methadone	5.663	232695	∞	44.10	130014.8	874458	9.905 ng/ml
Methamphetamine	3.187	261509	80097.3	39.03	3696.9	658822	10.437 ng/ml
Metoprolol	4.313	35119	43001.9	97.38	∞	408127	9.412 ng/ml
Mirtazapine	4.730	194372	41037.3	49.15	140619.6	1031909	9.745 ng/ml
Mitragynine	5.294	45362	84157.5	30.60	38470.0	1031909	9.637 ng/ml
Morphine	1.201	7537	∞	18.86	∞	9553	9.923 ng/ml
Norbuprenorphine	4.995	1594	130.4	109.76	240.0	22962	0.790 ng/ml
Nordiazepam	5.883	6555	909.0	62.28	764.8	23729	9.091 ng/ml
Norfentanyl	4.066	6288	208.7	29.15	256.4	767401	1.019 ng/ml
Norhydrocodone	3.043	9354	∞	28.09	491.8	95890	10.204 ng/ml
Noroxycodone	2.884	34237	∞	48.08	∞	115110	10.084 ng/ml
O-desmethyl-tramadol	3.349	235480	47569.1	7.22	9238.0	995785	9.974 ng/ml
O-Desmethylvenlafaxine	4.054	69088	1167.4	500.28	12564.9	234437	10.339 ng/ml
Olanzapine	4.739	73697	4998.5	42.15	1421.8	181800	10.111 ng/ml
Oxycodone	2.812	85098	2279.8	28.61	1125.3	312718	10.194 ng/ml
Oxymorphone	1.364	72295	∞	43.57	∞	280596	9.869 ng/ml
Phentermine	3.754	34159	∞	10.63	315.5	405337	10.489 ng/ml
Promethazine	5.559	108052	∞	39.75	3492.9	556237	9.908 ng/ml
Pseudoephedrine	2.536	237291	45030.2	17.50	12057.5	1031909	9.817 ng/ml
Quetiapine	5.635	177421	45994.7	61.44	64397.7	272961	10.282 ng/ml
Sertraline	5.793	8636	1394.7	123.55	1147.7	46135	9.246 ng/ml
Temazepam	5.804	34191	∞	26.82	117.0	157583	9.546 ng/ml
Tramadol	4.228	217996	6264.4	4.34	328.8	1130999	9.963 ng/ml
Trazodone	5.404	110225	8950.8	158.00	213499.9	648605	9.468 ng/ml
Venlafaxine	5.039	184973	47842.8	36.62	∞	986643	10.237 ng/ml
Zolpidem	5.151	253134	907857.6	30.15	∞	1071412	10.156 ng/ml

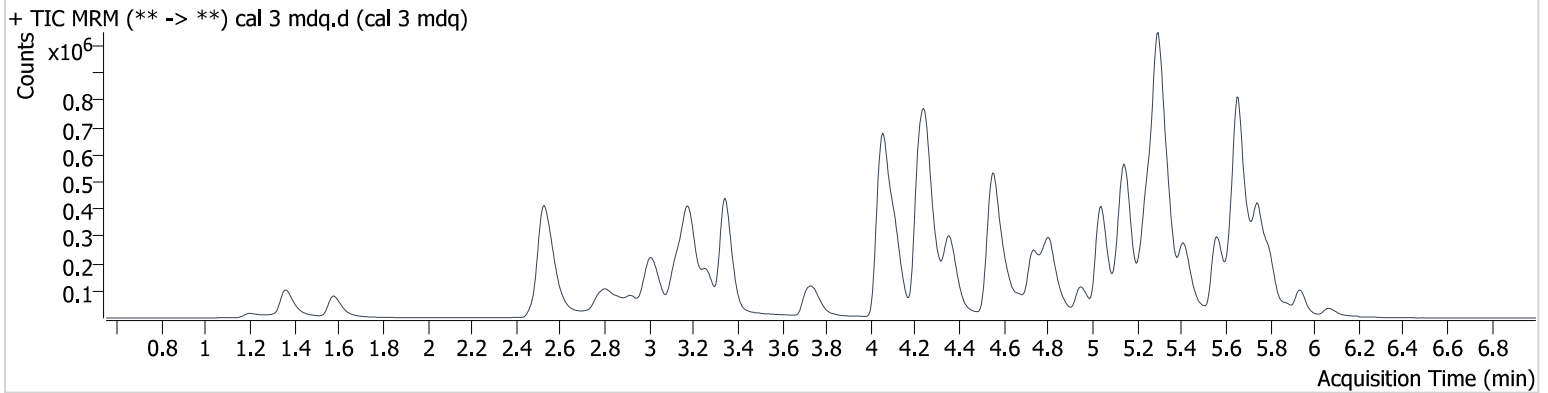
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-C6  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 2:50:38 PM  
**Sample Info.**

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

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.132	6240	∞	138.39	39793.1	78074	2.539 ng/ml
7-aminoclonazepam	4.242	38460	∞	113.01	4602.8	72555	27.584 ng/ml
a-hydroxyalprazolam	5.683	5274	∞	62.51	777.2	12360	21.962 ng/ml
alpha-PHP	4.947	104939	4504.9	247.18	94982.3	224146	24.284 ng/ml
alpha-PVP	4.362	315754	470449.9	57.43	8556.3	526594	24.366 ng/ml
Alprazolam	5.756	96683	5987.1	92.76	18829.5	151919	24.344 ng/ml
Amphetamine	3.009	158031	12098.6	283.73	16519.0	224146	27.857 ng/ml
Benzoylcegonine	3.837	6367	740.9	43.14	319.3	9736	24.382 ng/ml
Buprenorphine	6.095	15370	500.8	14.98	108.7	88470	2.444 ng/ml
Bupropion	4.813	324358	5683.2	70.64	11633.0	468272	24.796 ng/ml
Carisoprodol	5.707	110336	332484.5	63.09	37092.2	150145	26.073 ng/ml
Citalopram	5.233	270873	4080.9	39.60	231485.6	494259	24.813 ng/ml
Clonazepam	5.594	11554	1845.0	39.82	272.5	8323	25.975 ng/ml
Clonazepam	5.530	18607	4333.1	43.40	1433.1	23061	22.457 ng/ml
Cocaine	4.256	296377	652695.4	45.23	145457.3	901943	24.609 ng/ml
Codeine	2.574	39312	323884.7	92.51	∞	71499	23.037 ng/ml
Cyclobenzaprine	5.633	210902	59320.8	8.83	10247.8	276719	24.647 ng/ml
Dextromethorphan	5.277	202229	7682.3	74.96	251225.0	385335	25.102 ng/ml
Dextrophan	4.115	240498	638812.0	46.74	200236.2	461782	24.493 ng/ml
Diazepam	5.939	73672	10492.4	87.22	2157.2	133464	24.886 ng/ml
Dihydrocodeine	2.523	96217	444.4	64.02	6054.5	214980	27.489 ng/ml
Diphenhydramine	5.304	953098	65389.1	32.75	588940.9	1725273	24.836 ng/ml
Doxylamine	4.554	849071	80633.6	95.61	27221.8	1063414	25.044 ng/ml
Duloxetine	5.658	18128	190.9	7.71	32.4	24515	23.964 ng/ml
EDDP	5.261	274046	∞	42.57	271220.1	548154	24.339 ng/ml
Etizolam	5.797	12704	16286.7	380.58	6829.7	133464	27.180 ng/ml
Fentanyl	5.161	28351	5225.1	138.36	1116.2	514452	2.680 ng/ml
Fluorofentanyl	5.222	22519	4679.0	112.50	1186.6	4640	2.707 ng/ml
Fluoxetine	5.715	121763	∞	6.60	∞	180679	24.844 ng/ml
Hydrocodone	3.017	99065	∞	41.13	∞	237697	25.779 ng/ml
Hydromorphone	1.582	105186	3210.2	71.39	1390.3	135056	25.402 ng/ml
Hydroxyzine	5.744	335528	386074.2	107.82	5510.1	954516	28.383 ng/ml
Ketamine	4.081	191303	15877.9	36.64	1260.1	347052	24.684 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.305	18751	3111.8	100.52	2889.6	224146	26.889 ng/ml
Lorazepam	5.735	7507	191.5	35.60	44.9	19077	23.684 ng/ml
MDA	3.171	249658	11142.1	29.64	∞	374829	28.089 ng/ml
MDMA	3.268	227142	∞	98.55	19271.6	91191	25.415 ng/ml
Meprobamate	4.871	21823	18714.1	48.78	1163.7	32495	25.443 ng/ml
Methadone	5.663	609095	2472086.1	49.41	∞	904175	25.070 ng/ml
Methamphetamine	3.187	511883	10358.2	40.57	5977.9	631501	26.996 ng/ml
Metoprolol	4.308	86307	∞	97.15	∞	374829	24.337 ng/ml
Mirtazapine	4.730	465179	28658.4	51.35	161174.7	954516	25.042 ng/ml
Mitragynine	5.300	119592	∞	27.97	76061.6	954516	26.982 ng/ml
Morphine	1.206	18484	∞	18.57	∞	9155	26.034 ng/ml
Norbuprenorphine	5.005	3814	462.6	99.99	1848.8	21318	2.730 ng/ml
Nordiazepam	5.888	17742	5807.8	59.02	1366.6	23061	25.388 ng/ml
Norfentanyl	4.066	14589	1577.6	31.63	753.7	715021	2.738 ng/ml
Norhydrocodone	3.043	23514	∞	24.78	75950.6	92297	25.250 ng/ml
Noroxycodone	2.884	78561	∞	46.73	∞	107146	24.342 ng/ml
O-desmethyl-tramadol	3.349	574645	452676.3	7.13	20417.3	967371	25.189 ng/ml
O-Desmethylvenlafaxine	4.059	164454	1956.2	515.00	38189.9	224268	26.665 ng/ml
Olanzapine	4.739	188996	15111.4	41.89	125.0	175145	28.025 ng/ml
Oxycodone	2.812	203895	8381.9	28.56	14453.4	295321	26.037 ng/ml
Oxymorphone	1.364	174180	∞	43.51	∞	266652	25.212 ng/ml
Phentermine	3.760	80710	1155.2	10.96	779.8	384326	27.563 ng/ml
Promethazine	5.559	271839	454111.6	41.68	∞	549331	24.671 ng/ml
Pseudoephedrine	2.536	570838	∞	17.69	∞	954516	25.614 ng/ml
Quetiapine	5.635	440225	166713.5	61.74	29079.1	269224	27.171 ng/ml
Sertraline	5.798	20741	8616.5	109.00	∞	40378	24.912 ng/ml
Temazepam	5.804	79069	1933.3	29.91	203.7	142769	24.271 ng/ml
Tramadol	4.228	551177	2685.9	4.10	3287.7	1078257	27.222 ng/ml
Trazodone	5.410	287275	26237.1	140.86	310248.4	642316	25.016 ng/ml
Venlafaxine	5.039	445343	812870.7	37.29	4153.8	949740	23.996 ng/ml
Zolpidem	5.156	595585	1391389.8	30.50	22720.9	1016223	25.945 ng/ml

# AM #28 Multi-Drug Quant. Results

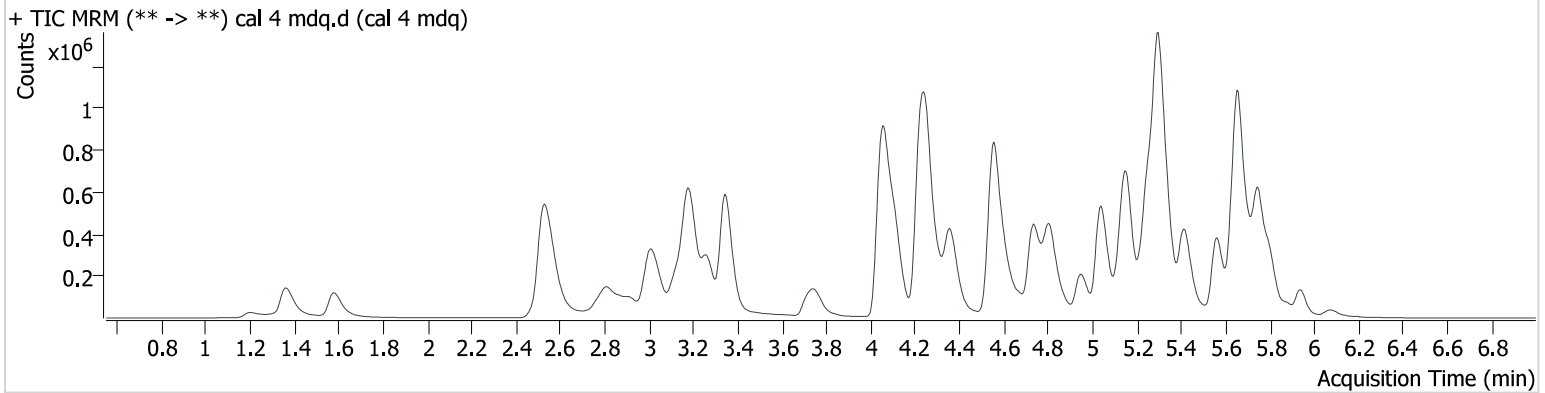
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**Type** Cal  
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**Sample Position** P2-D6  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 2:59:20 PM  
**Sample Info.**

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**Sample** cal 4 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.127	11502	34859.0	139.78	39898.9	74849	4.882 ng/ml
7-aminoclonazepam	4.242	68975	8358.8	111.45	19361.8	70136	51.774 ng/ml
a-hydroxyalprazolam	5.683	10675	2225.9	57.77	∞	12094	43.731 ng/ml
alpha-PHP	4.947	190452	8249.8	262.57	34851.8	209617	46.799 ng/ml
alpha-PVP	4.367	588101	335589.8	56.52	49126.6	492445	48.366 ng/ml
Alprazolam	5.756	177852	82044.7	91.36	∞	139662	48.231 ng/ml
Amphetamine	3.009	277578	14393.3	271.05	34321.1	209617	54.010 ng/ml
Benzoylcegonine	3.832	12633	1703.6	43.95	699.2	9792	47.796 ng/ml
Buprenorphine	6.100	31314	2684.9	13.18	633.3	85164	5.214 ng/ml
Bupropion	4.813	612556	∞	72.61	7315.7	433984	50.391 ng/ml
Carisoprodol	5.707	204909	226997.6	64.76	1906.4	139811	51.815 ng/ml
Citalopram	5.233	485717	∞	39.31	∞	431940	51.035 ng/ml
Clonazepam	5.594	20894	4367.0	38.34	1156.6	7347	51.552 ng/ml
Clonazepam	5.530	39136	6538.0	35.22	3403.1	20549	49.962 ng/ml
Cocaine	4.256	558368	51923.2	45.15	313530.4	846212	49.420 ng/ml
Codeine	2.574	72981	289701.9	89.42	20721.0	65765	45.593 ng/ml
Cyclobenzaprine	5.638	351364	31846.7	9.25	3382.5	234426	48.949 ng/ml
Dextromethorphan	5.272	339975	610231.4	75.13	∞	331506	49.111 ng/ml
Dextrorphan	4.115	454670	∞	46.09	∞	441246	47.878 ng/ml
Diazepam	5.944	127598	3270.7	85.53	6621.5	113639	50.021 ng/ml
Dihydrocodeine	2.517	178273	1510.1	65.57	589.0	204829	54.407 ng/ml
Diphenhydramine	5.304	1687485	152428.8	33.31	∞	1533357	49.508 ng/ml
Doxylamine	4.554	1643923	168695.5	93.05	1432230.0	1013552	50.884 ng/ml
Duloxetine	5.658	34884	276.2	8.96	19.6	21915	50.926 ng/ml
EDDP	5.261	597717	39157.4	42.34	∞	588501	49.524 ng/ml
Etizolam	5.797	19949	∞	434.52	7840.3	113639	50.293 ng/ml
Fentanyl	5.161	43299	8360.1	142.24	7052.7	422148	5.008 ng/ml
Fluorofentanyl	5.227	38213	2082.8	101.76	322.9	4126	5.143 ng/ml
Fluoxetine	5.720	231498	726394.3	6.60	28405.6	170054	50.427 ng/ml
Hydrocodone	3.017	183430	9102.7	39.13	∞	217811	52.329 ng/ml
Hydromorphone	1.582	201532	4685.4	71.72	3523.1	130514	50.469 ng/ml
Hydroxyzine	5.744	526124	222961.0	112.49	147691.3	916462	46.561 ng/ml
Ketamine	4.081	346619	∞	37.91	10853.3	317557	48.774 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.300	34043	8689.7	101.76	3753.0	209617	53.228 ng/ml
Lorazepam	5.735	14186	3974.4	35.11	128.2	16459	54.588 ng/ml
MDA	3.171	405969	14013.2	32.02	∞	333921	52.073 ng/ml
MDMA	3.268	430422	70612.4	98.72	∞	84567	51.856 ng/ml
Meprobamate	4.876	40622	13896.3	48.22	1004.2	31127	48.915 ng/ml
Methadone	5.663	985878	50035.5	50.96	28784.0	754880	48.601 ng/ml
Methamphetamine	3.187	967560	∞	36.57	4713.9	613990	57.633 ng/ml
Metoprolol	4.314	157994	∞	96.35	∞	333921	49.476 ng/ml
Mirtazapine	4.735	857323	30900.1	50.91	55887.1	916462	47.968 ng/ml
Mitragynine	5.300	193626	392018.7	30.01	132687.4	916462	45.319 ng/ml
Morphine	1.206	35615	∞	18.09	12801.1	9822	47.085 ng/ml
Norbuprenorphine	4.995	5854	249.5	106.50	1081.9	19653	4.839 ng/ml
Nordiazepam	5.883	30767	22393.0	60.04	2447.4	20549	49.447 ng/ml
Norfentanyl	4.066	26579	502.3	31.50	1828.9	660533	5.530 ng/ml
Norhydrocodone	3.043	46372	∞	26.55	∞	89779	50.302 ng/ml
Noroxycodone	2.884	151666	∞	45.71	∞	97719	51.133 ng/ml
O-desmethyl-tramadol	3.349	1117506	194862.5	6.88	21320.1	917817	51.722 ng/ml
O-Desmethylvenlafaxine	4.054	295143	241.5	527.62	16544.1	213612	50.801 ng/ml
Olanzapine	4.739	345142	16091.7	48.89	1812.4	184673	49.028 ng/ml
Oxycodone	2.812	359506	22312.7	30.82	7062.0	280194	48.482 ng/ml
Oxymorphone	1.364	329068	∞	43.38	∞	251825	50.560 ng/ml
Phentermine	3.754	152940	1803.5	10.33	6143.4	364784	55.981 ng/ml
Promethazine	5.564	482057	1110057.8	40.96	44142.5	489519	48.732 ng/ml
Pseudoephedrine	2.536	1076215	∞	17.58	71357.0	916462	50.347 ng/ml
Quetiapine	5.640	750139	689440.7	61.51	∞	240718	52.562 ng/ml
Sertraline	5.798	38167	14748.8	120.05	6262.9	34726	53.001 ng/ml
Temazepam	5.804	142760	2808.2	31.16	527.3	127713	48.925 ng/ml
Tramadol	4.228	990696	∞	4.25	∞	1029286	51.684 ng/ml
Trazodone	5.415	516193	154398.9	145.92	160290.1	541001	53.438 ng/ml
Venlafaxine	5.039	833749	368535.3	37.05	7814.7	878815	47.453 ng/ml
Zolpidem	5.156	1122100	∞	30.19	31671.0	963571	52.052 ng/ml

# AM #28 Multi-Drug Quant. Results

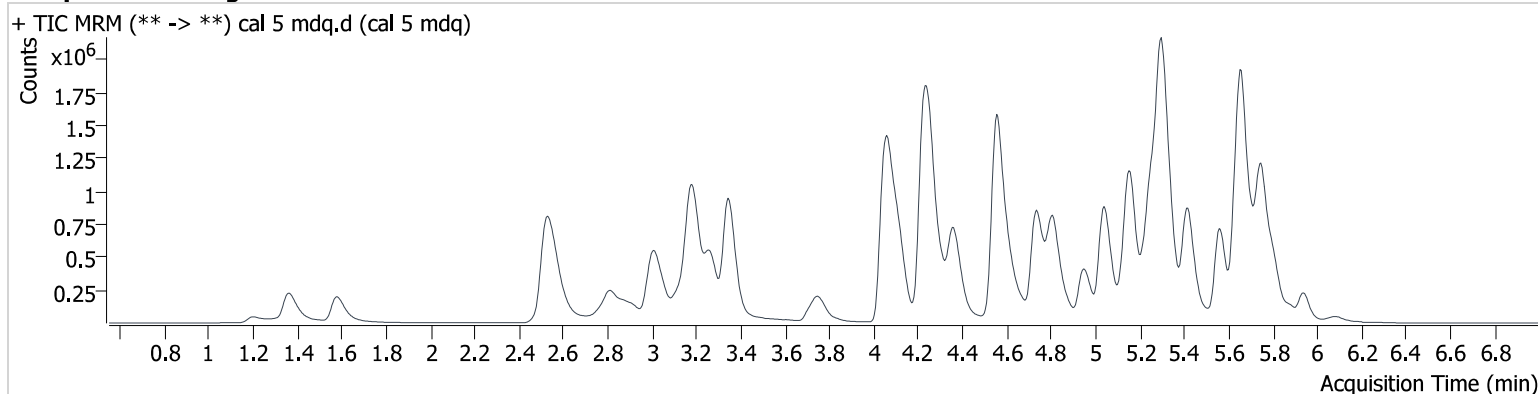
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**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-E6  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 3:08:02 PM  
**Sample Info.**

**Data File** cal 5 mdq.d  
**Sample** cal 5 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.132	23654	58902.0	137.50	166401.8	74715	10.057 ng/ml
7-aminoclonazepam	4.242	140632	87519.4	113.57	6290.2	72223	103.197 ng/ml
a-hydroxyalprazolam	5.683	19161	12730.9	61.13	2930.2	9358	99.335 ng/ml
alpha-PHP	4.952	409565	7771.7	255.58	22285.7	206662	101.669 ng/ml
alpha-PVP	4.362	1258379	44975.6	56.20	37495.6	496161	102.530 ng/ml
Alprazolam	5.756	320501	∞	92.00	7959.4	123012	98.176 ng/ml
Amphetamine	3.004	472944	20518.3	263.77	∞	206662	94.738 ng/ml
Benzoylcegonine	3.832	28840	3524.3	41.51	418.9	10622	100.242 ng/ml
Buprenorphine	6.100	59283	3024.8	17.00	2924.0	86282	9.776 ng/ml
Bupropion	4.813	1292449	∞	71.50	65746.0	459493	100.290 ng/ml
Carisoprodol	5.707	349788	∞	63.94	16920.8	121858	101.303 ng/ml
Citalopram	5.233	955239	172949.2	40.77	1550162.6	441149	98.380 ng/ml
Clonazepam	5.594	43032	∞	37.47	4920.8	7965	96.514 ng/ml
Clonazepam	5.530	77683	28180.9	37.68	697.3	19684	101.129 ng/ml
Cocaine	4.261	1118859	1205066.5	45.01	388101.8	854577	98.063 ng/ml
Codeine	2.574	136032	36368.2	88.92	15683.0	58213	95.026 ng/ml
Cyclobenzaprine	5.633	806824	92228.7	10.40	59003.5	277490	95.424 ng/ml
Dextromethorphan	5.272	707146	1420158.3	74.20	∞	332136	102.021 ng/ml
Dextrorphan	4.115	918257	148961.4	45.55	218860.0	434695	97.528 ng/ml
Diazepam	5.939	258361	26065.9	84.63	6460.6	115326	99.223 ng/ml
Dihydrocodeine	2.517	348120	16978.8	65.12	3786.5	205616	106.788 ng/ml
Diphenhydramine	5.304	3456117	209787.4	31.93	142881.4	1539430	101.031 ng/ml
Doxylamine	4.554	3453933	436223.4	93.88	277350.6	1079360	100.400 ng/ml
Duloxetine	5.658	90143	1123.1	9.22	181.2	25339	113.109 ng/ml
EDDP	5.261	1169500	250175.3	40.73	∞	577200	98.870 ng/ml
Etizolam	5.797	44851	8952.8	379.97	6413.4	115326	111.659 ng/ml
Fentanyl	5.161	104532	2797.4	142.76	5251.2	489130	10.460 ng/ml
Fluorofentanyl	5.222	94012	7906.8	104.11	6738.4	4666	11.160 ng/ml
Fluoxetine	5.720	613991	∞	6.61	114292.0	218633	104.280 ng/ml
Hydrocodone	3.012	359194	∞	39.50	∞	217685	102.755 ng/ml
Hydromorphone	1.582	394008	7228.4	71.65	3645.0	127757	100.905 ng/ml
Hydroxyzine	5.744	1175115	800031.7	112.75	899415.1	905721	105.643 ng/ml
Ketamine	4.081	649217	∞	38.01	9041.5	291459	99.423 ng/ml





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.300	62947	5474.5	97.51	5008.7	206662	100.783 ng/ml
Lorazepam	5.735	26032	1904.3	41.78	223.0	15911	105.667 ng/ml
MDA	3.171	769522	48837.7	30.19	∞	303448	109.674 ng/ml
MDMA	3.268	873969	∞	97.85	181707.4	88158	100.936 ng/ml
Meprobamate	4.876	89002	37868.9	43.26	2340.6	33145	100.057 ng/ml
Methadone	5.663	2161989	409978.5	48.37	104554.9	798823	100.716 ng/ml
Methamphetamine	3.187	1752717	122283.3	38.05	16276.7	651734	102.209 ng/ml
Metoprolol	4.313	295564	182965.7	97.72	∞	303448	101.315 ng/ml
Mirtazapine	4.730	1773233	541580.1	50.30	156316.8	905721	100.272 ng/ml
Mitragynine	5.299	428882	672082.6	30.95	1025508.5	905721	101.246 ng/ml
Morphine	1.201	71654	∞	19.24	∞	9422	99.205 ng/ml
Norbuprenorphine	5.000	11686	1140.5	106.85	1502.9	20058	9.886 ng/ml
Nordiazepam	5.883	63255	17324.3	58.61	35241.3	19684	106.177 ng/ml
Norfentanyl	4.066	46907	822.3	30.69	1911.8	615121	10.600 ng/ml
Norhydrocodone	3.048	93245	∞	29.50	∞	90576	99.397 ng/ml
Noroxycodone	2.884	282714	∞	45.98	∞	92185	100.694 ng/ml
O-desmethyl-tramadol	3.349	2311579	211388.0	7.02	∞	977128	100.578 ng/ml
O-Desmethylvenlafaxine	4.054	578821	2275.5	516.72	116492.7	208113	102.900 ng/ml
Olanzapine	4.739	708598	30760.1	40.05	827.8	191175	97.891 ng/ml
Oxycodone	2.812	770303	∞	27.16	11476.7	282432	103.185 ng/ml
Oxymorphone	1.364	654765	∞	43.52	∞	247141	102.636 ng/ml
Phentermine	3.760	295065	3636.2	9.67	2577.1	369327	107.539 ng/ml
Promethazine	5.564	1169283	∞	40.70	∞	600398	96.015 ng/ml
Pseudoephedrine	2.536	2101525	∞	17.78	7970805262 150570.0	905721	99.529 ng/ml
Quetiapine	5.635	1439026	109324.2	61.02	291403.1	238905	102.400 ng/ml
Sertraline	5.798	106535	41885.8	115.91	29806.7	51590	99.348 ng/ml
Temazepam	5.809	258470	22869.0	32.03	887.2	115350	98.012 ng/ml
Tramadol	4.228	2000164	16732.9	4.17	∞	1046510	103.108 ng/ml
Trazodone	5.415	1143881	162542.6	135.66	21724.5	613453	104.490 ng/ml
Venlafaxine	5.039	1782880	208623.4	36.88	12166.5	925130	95.289 ng/ml
Zolpidem	5.156	2320313	2249572.8	30.67	2274295.7	1006803	103.509 ng/ml

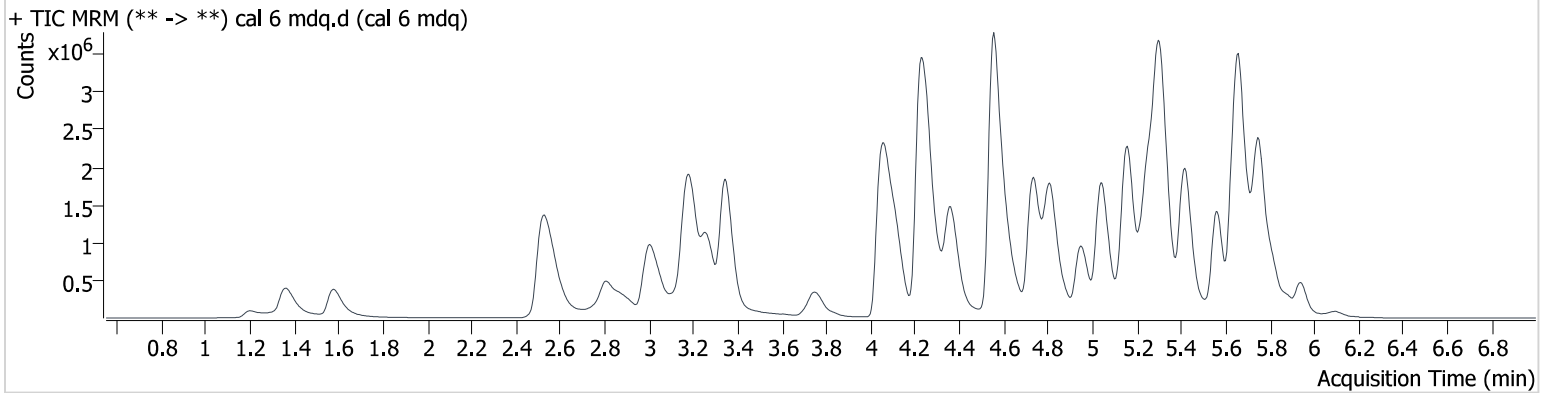
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-F6  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 3:16:45 PM  
**Sample Info.**

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

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.127	54448	89575.0	137.29	708542.1	67025	25.805 ng/ml
7-aminoclonazepam	4.242	232916	12556.7	109.05	10329.2	51448	240.861 ng/ml
a-hydroxyalprazolam	5.683	39180	727.3	66.89	1372.0	6799	276.694 ng/ml
alpha-PPH	4.947	1003213	59344.9	252.49	31160.0	190737	269.252 ng/ml
alpha-PVP	4.362	3025971	176566.6	55.86	609358.7	492913	247.941 ng/ml
Alprazolam	5.756	640588	∞	85.99	22031.2	90804	265.002 ng/ml
Amphetamine	2.999	969495	29390.5	253.19	244556.9	190737	212.767 ng/ml
Benzoylcegonine	3.832	76303	7015.4	41.46	2201.1	11444	245.698 ng/ml
Buprenorphine	6.100	163038	24603.9	14.45	2317.8	88293	26.337 ng/ml
Bupropion	4.813	3267853	315212.0	68.70	∞	464919	250.420 ng/ml
Carisoprodol	5.707	712179	∞	62.77	15348.6	102942	243.895 ng/ml
Citalopram	5.228	1966187	123127.8	41.30	1711947.3	356203	250.969 ng/ml
Clonazepam	5.594	107964	24277.0	36.56	6363.7	7401	257.907 ng/ml
Clonazolam	5.530	190714	23722.2	38.24	∞	19954	241.723 ng/ml
Cocaine	4.261	2503513	1611136.4	44.07	75534.3	751727	249.451 ng/ml
Codeine	2.574	263588	29022.0	93.04	20554.3	41021	259.749 ng/ml
Cyclobenzaprine	5.633	1649311	1269703.6	9.57	298252.5	219410	247.488 ng/ml
Dextromethorphan	5.272	1459823	594487.7	75.03	∞	281759	248.353 ng/ml
Dextrorphan	4.115	1984548	∞	45.90	∞	375299	243.243 ng/ml
Diazepam	5.944	627888	13464.5	85.58	6278.1	111737	248.010 ng/ml
Dihydrocodeine	2.507	726902	770.6	64.54	4561.0	196415	234.620 ng/ml
Diphenhydramine	5.309	7380489	2450803.1	31.04	170190.0	1269164	261.746 ng/ml
Doxylamine	4.554	8914267	∞	95.00	520292.3	1121970	249.297 ng/ml
Duloxetine	5.663	128841	774.6	9.90	3048.9	15778	258.885 ng/ml
EDDP	5.261	2736696	3667513.9	43.05	∞	513188	260.343 ng/ml
Etizolam	5.802	91550	∞	403.32	12116.7	111737	235.460 ng/ml
Fentanyl	5.166	232165	15833.9	143.44	25648.2	439955	25.865 ng/ml
Fluorofentanyl	5.222	196409	209644.4	101.93	637.5	4435	24.500 ng/ml
Fluoxetine	5.715	1076739	∞	6.73	∞	160518	249.411 ng/ml
Hydrocodone	3.007	814280	2829.9	39.65	∞	205925	246.571 ng/ml
Hydromorphone	1.577	878300	∞	71.29	∞	115391	249.195 ng/ml
Hydroxyzine	5.749	2392840	1539437.0	113.90	3443014.1	787289	247.916 ng/ml
Ketamine	4.081	1243591	∞	37.62	16182.7	225947	245.509 ng/ml



# AM #28 Multi-Drug Quant. Results

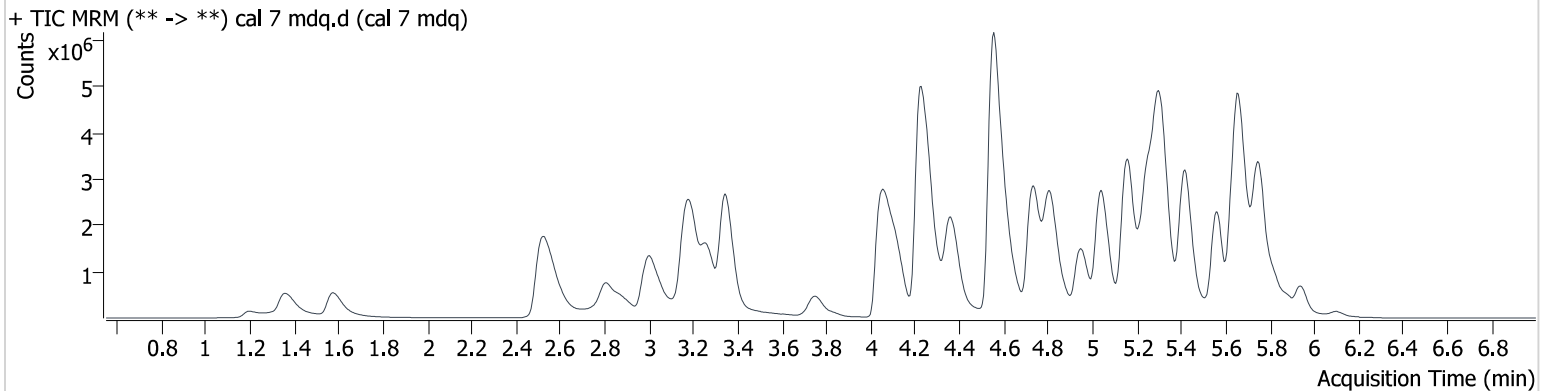
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Lamotrigine	4.300	121640	12918.0	96.28	12833.1	190737	212.212	ng/ml
Lorazepam	5.730	56139	5814.9	39.90	327.2	15930	230.238	ng/ml
MDA	3.156	1271268	87636.3	29.77	4651.4	219856	251.316	ng/ml
MDMA	3.262	1971990	1256056.2	96.73	∞	80688	248.723	ng/ml
Meprobamate	4.876	211604	30505.8	44.59	2734.8	31839	246.824	ng/ml
Methadone	5.663	4984741	61170.1	47.89	484501.2	756741	245.122	ng/ml
Methamphetamine	3.182	4004219	82769.3	35.35	8026.6	662104	236.660	ng/ml
Metoprolol	4.313	535059	231160.5	102.47	∞	219856	252.386	ng/ml
Mirtazapine	4.735	4012455	447036.4	50.89	333535.8	787289	260.853	ng/ml
Mitragynine	5.299	908899	53694601.5	32.30	593626.6	787289	246.463	ng/ml
Morphine	1.201	168158	∞	17.47	∞	8528	257.877	ng/ml
Norbuprenorphine	5.000	25081	1689.9	103.92	2820.9	17739	24.621	ng/ml
Nordiazepam	5.883	152760	13475.2	62.55	14461.9	19954	252.994	ng/ml
Norfentanyl	4.066	77402	3739.0	27.56	2204.6	456284	23.746	ng/ml
Norhydrocodone	3.048	203237	∞	29.33	∞	77288	252.543	ng/ml
Noroxycodone	2.879	616580	∞	46.02	∞	76362	264.533	ng/ml
O-desmethyl-tramadol	3.344	5638221	717043.6	6.78	98576.2	964843	248.577	ng/ml
O-Desmethylvenlafaxine	4.048	1124557	5877.5	517.29	205820.8	167258	249.645	ng/ml
Olanzapine	4.739	1455642	55719.0	44.44	14699.3	149792	257.735	ng/ml
Oxycodone	2.807	1786442	∞	28.96	127398.0	268613	251.773	ng/ml
Oxymorphone	1.359	1474461	∞	43.19	∞	222608	256.783	ng/ml
Phentermine	3.754	632402	12292.4	9.31	3956.0	354193	241.513	ng/ml
Promethazine	5.564	2770313	241883.4	39.92	609219.9	535297	254.537	ng/ml
Pseudoephedrine	2.531	4610139	∞	16.92	∞	787289	251.262	ng/ml
Quetiapine	5.635	2802331	∞	59.84	1165230.4	226661	211.091	ng/ml
Sertraline	5.798	169456	86067.7	117.91	12129.6	29674	274.268	ng/ml
Temazepam	5.809	523331	17329.4	31.63	1391.6	92376	247.706	ng/ml
Tramadol	4.223	4720433	∞	4.00	∞	992080	257.407	ng/ml
Trazodone	5.415	2729799	∞	147.25	∞	593835	257.686	ng/ml
Venlafaxine	5.043	4466160	332281.1	36.32	31509.3	901819	243.188	ng/ml
Zolpidem	5.156	5663015	3084994.0	30.37	453185.9	1022651	249.422	ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 7 mdq.d
<b>Type</b>	Cal	<b>Sample</b>	cal 7 mdq
<b>Acq. Method</b>	mdqp1 72723.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-G6	<b>Comment</b>	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.
<b>Injection Volume</b>	3		
<b>Acq. Date-Time</b>	8/24/2023 3:25:28 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.127	84924	776607.0	142.36	288531.5	54646	49.366 ng/ml
7-aminoclonazepam	4.237	291426	27681.1	110.15	13415.9	35328	439.454 ng/ml
a-hydroxyalprazolam	5.688	55226	∞	60.06	∞	5237	504.999 ng/ml
alpha-PHP	4.947	1582997	30581.6	261.90	257971.7	158551	510.793 ng/ml
alpha-PVP	4.362	4985495	73613.0	55.53	442122.1	397780	506.025 ng/ml
Alprazolam	5.756	772757	45805.9	93.31	29436.4	58495	495.834 ng/ml
Amphetamine	2.994	1377669	∞	248.84	60397.7	158551	365.084 ng/ml
Benzoylcegonine	3.832	146286	38938.6	40.55	2825.0	10862	495.981 ng/ml
Buprenorphine	6.100	278423	53184.6	15.71	2545.3	80927	49.103 ng/ml
Bupropion	4.813	5310515	∞	68.07	201425.1	379192	498.827 ng/ml
Carisoprodol	5.707	932517	∞	62.79	32042.6	67709	485.348 ng/ml
Citalopram	5.228	2742390	133321.7	41.52	236464.1	248548	501.779 ng/ml
Clonazepam	5.594	183485	26174.5	33.55	1398.9	6756	478.773 ng/ml
Clonazepam	5.530	335639	169068.9	37.46	44913.6	15825	533.679 ng/ml
Cocaine	4.261	3783409	4859873.2	44.22	1183928.3	564440	502.070 ng/ml
Codeine	2.574	367891	141515.7	94.00	47751.3	28299	524.601 ng/ml
Cyclobenzaprine	5.628	2396009	251624.5	10.17	294961.4	146443	539.262 ng/ml
Dextromethorphan	5.267	2015242	127684.0	76.82	∞	192706	501.341 ng/ml
Dextrophan	4.115	3034742	144996.9	45.72	381463.1	281425	495.420 ng/ml
Diazepam	5.944	974456	12584.8	86.92	18856.4	85505	502.385 ng/ml
Dihydrocodeine	2.502	1088519	13300.1	64.44	490.3	169865	406.990 ng/ml
Diphenhydramine	5.309	10681321	∞	31.14	178410.3	916559	524.572 ng/ml
Doxylamine	4.554	15467703	283750.9	96.10	324420.7	972282	499.178 ng/ml
Duloxetine	5.674	160184	701.2	10.82	232.9	10372	489.100 ng/ml
EDDP	5.256	5555419	980458.3	43.50	∞	533073	508.848 ng/ml
Etizolam	5.802	143956	12764.5	372.19	47021.5	85505	484.035 ng/ml
Fentanyl	5.166	338798	34415.2	145.34	34653.8	337505	49.223 ng/ml
Fluorofentanyl	5.222	295815	246998.2	103.87	108122.6	3331	49.106 ng/ml
Fluoxetine	5.715	1576116	114451.1	6.76	547389.1	120839	485.190 ng/ml
Hydrocodone	3.007	1351948	∞	40.42	∞	173866	485.091 ng/ml
Hydromorphone	1.577	1369617	∞	71.90	∞	89927	498.737 ng/ml
Hydroxyzine	5.744	3524004	2635.7	115.72	234377.0	581594	494.571 ng/ml
Ketamine	4.081	1588531	∞	39.08	18512.6	138939	509.881 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.300	153783	13068.4	92.07	13445.0	158551	323.320 ng/ml
Lorazepam	5.730	89335	1398.5	39.40	972.0	11327	518.081 ng/ml
MDA	3.151	1545565	83880.4	28.56	∞	144677	465.136 ng/ml
MDMA	3.262	3041019	∞	95.23	111001.0	61428	503.742 ng/ml
Meprobamate	4.876	346447	82775.8	44.83	31313.8	25619	501.654 ng/ml
Methadone	5.663	8130437	69338.0	46.59	59777.2	582552	519.356 ng/ml
Methamphetamine	3.182	5952573	∞	38.07	9720857.9	583249	403.127 ng/ml
Metoprolol	4.313	730972	3424325.7	97.18	∞	144677	523.423 ng/ml
Mirtazapine	4.735	6014042	∞	51.07	132622.3	581594	529.146 ng/ml
Mitragynine	5.299	1417546	∞	33.05	668758.5	581594	520.049 ng/ml
Morphine	1.196	275869	∞	17.93	∞	7133	506.186 ng/ml
Norbuprenorphine	4.995	38880	3280.6	107.06	5905.9	14054	48.598 ng/ml
Nordiazepam	5.883	238206	31094.9	65.01	13757.2	15825	497.481 ng/ml
Norfentanyl	4.066	85410	∞	30.29	3311.9	296200	40.458 ng/ml
Norhydrocodone	3.048	297969	∞	29.03	∞	56460	505.964 ng/ml
Noroxycodone	2.879	945193	6091.2	47.10	2447.4	69867	442.984 ng/ml
O-desmethyl-tramadol	3.344	9321611	467342.6	6.71	61468.7	800867	495.204 ng/ml
O-Desmethylvenlafaxine	4.048	1475014	12227.3	520.05	60797.1	114056	480.765 ng/ml
Olanzapine	4.734	3009683	63209.0	44.07	38314.3	172171	464.160 ng/ml
Oxycodone	2.802	3004742	26936.6	29.10	∞	233055	488.189 ng/ml
Oxymorphone	1.359	2326119	∞	43.25	∞	181483	497.016 ng/ml
Phentermine	3.754	994892	6985.9	8.91	20886.4	295323	456.532 ng/ml
Promethazine	5.564	4881541	139636283.5	38.05	421043.9	467790	512.869 ng/ml
Pseudoephedrine	2.526	6753578	∞	17.42	∞	581594	498.318 ng/ml
Quetiapine	5.635	3609836	163948.9	61.13	2519617.3	181127	340.802 ng/ml
Sertraline	5.803	250786	60478.3	93.18	15836.1	23532	511.611 ng/ml
Temazepam	5.809	727794	10683044.5	31.70	8155.3	60903	522.437 ng/ml
Tramadol	4.223	7399136	∞	3.88	∞	872761	459.017 ng/ml
Trazodone	5.415	4509228	1141997.8	147.75	862262.0	505145	500.450 ng/ml
Venlafaxine	5.039	7585367	509391.0	35.67	96955.8	746672	497.729 ng/ml
Zolpidem	5.156	9432378	104624773.4	30.03	325827.0	876129	485.397 ng/ml

# AM #28 Multi-Drug Quant. Results

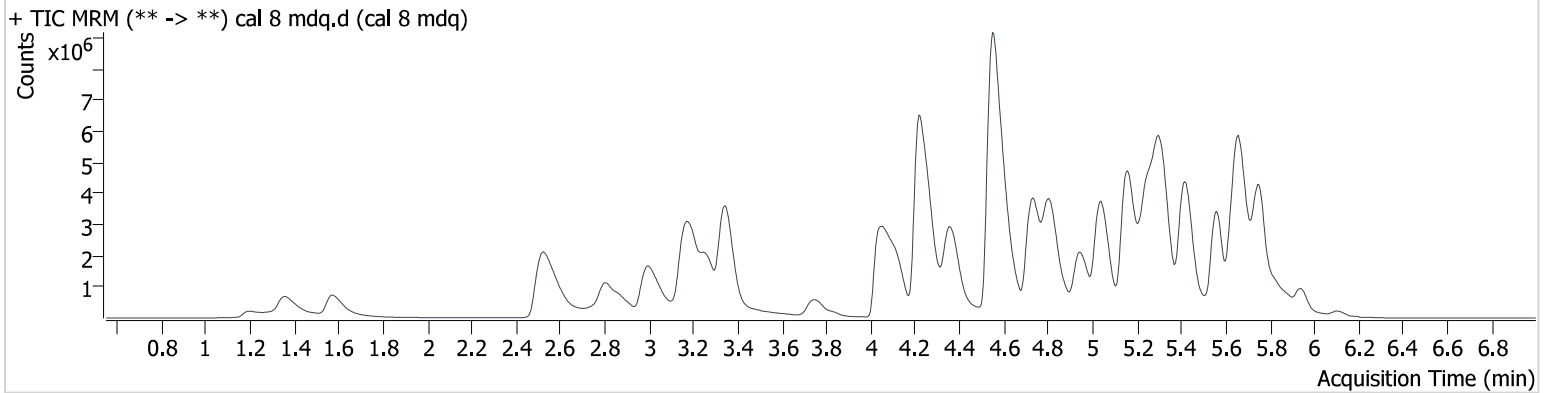
**Batch results** D:\MassHunter\Data\2023\am 27-28\082423\QuantResults\mdq.batch.bin  
**Calibration Last Update** 8/28/2023 9:26:01 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp1 72723.m  
**Sample Position** P2-H6  
**Injection Volume** 3  
**Acq. Date-Time** 8/24/2023 3:42:52 PM  
**Sample Info.**

**Data File** cal 8 mdq.d  
**Sample** cal 8 mdq  
**Operator** Anne Nord  
**Comment**

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

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.122	118467	∞	140.36	480753.2	38010	99.006 ng/ml
7-aminoclonazepam	4.231	264650	5376.0	108.15	17557.1	19220	733.995 ng/ml
a-hydroxyalprazolam	5.688	69741	∞	55.41	292.9	2983	1117.883 ng/ml
alpha-PHP	4.947	2334697	∞	257.41	165878.4	122719	973.000 ng/ml
alpha-PVP	4.362	7404868	342056.6	54.70	439794.4	288358	1036.622 ng/ml
Alprazolam	5.756	932779	∞	89.73	∞	35045	998.503 ng/ml
Amphetamine	2.989	1672059	163642.7	249.00	∞	122719	573.568 ng/ml
Benzoylcegonine	3.832	250894	28988.9	42.97	28755.0	9143	1010.255 ng/ml
Buprenorphine	6.105	526546	40022.7	14.59	6144.7	74460	100.968 ng/ml
Bupropion	4.808	7726533	3498866.0	66.03	161945.1	272758	1008.839 ng/ml
Carisoprodol	5.707	1051422	653811.1	61.00	1457022.3	37877	978.037 ng/ml
Citalopram	5.218	3236261	2461122.7	40.34	∞	149494	984.605 ng/ml
Clonazepam	5.594	251987	57526.0	32.35	9387.6	4461	994.116 ng/ml
Clonazolam	5.525	464142	34858.4	37.43	27134.4	11456	1017.436 ng/ml
Cocaine	4.261	5187122	336200.5	42.17	∞	371984	1044.486 ng/ml
Codeine	2.574	496417	∞	93.56	58153.1	17766	1126.562 ng/ml
Cyclobenzaprine	5.623	3149582	4597326.2	9.81	107211.1	105159	987.567 ng/ml
Dextromethorphan	5.267	2474182	∞	75.87	361321.8	117730	1007.566 ng/ml
Dextrorphan	4.115	4130775	1241495.3	45.77	301243.8	186716	1015.771 ng/ml
Diazepam	5.944	1387325	124315.7	86.20	98527.7	60682	1007.244 ng/ml
Dihydrocodeine	2.502	1475065	3531.0	64.85	677.0	138924	675.011 ng/ml
Diphenhydramine	5.309	11667174	860810.0	29.96	272406.7	570056	921.299 ng/ml
Doxylamine	4.549	24873969	510483.7	96.10	573795.6	790485	987.364 ng/ml
Duloxetine	5.674	159757	214.9	9.48	525.5	5759	878.095 ng/ml
EDDP	5.256	8933784	299886.7	43.01	189596.2	431855	1010.152 ng/ml
Etizolam	5.807	185834	∞	377.41	∞	60682	880.616 ng/ml
Fentanyl	5.166	454118	23662.6	147.63	∞	247800	89.882 ng/ml
Fluorofentanyl	5.217	399042	254394.8	100.29	36795.9	2557	86.258 ng/ml
Fluoxetine	5.715	2168799	∞	6.71	182200.2	84368	956.482 ng/ml
Hydrocodone	3.002	2063916	∞	40.19	3029.2	137353	937.634 ng/ml
Hydromorphone	1.572	1976971	∞	71.69	∞	65767	984.459 ng/ml
Hydroxyzine	5.749	4634218	1732753.8	114.51	8596496.3	398516	949.470 ng/ml
Ketamine	4.076	1813871	∞	38.59	22969.6	76578	1056.226 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lamotrigine	4.300	154588	4446.0	93.15	18596.1	122719	420.239 ng/ml
Lorazepam	5.730	116712	6656.6	41.67	772.2	8111	947.081 ng/ml
MDA	3.141	1658535	94595.4	28.66	∞	90182	801.455 ng/ml
MDMA	3.262	3957862	671047.3	93.42	587520.6	42980	936.959 ng/ml
Meprobamate	4.876	502774	23994.1	44.75	128782.0	18118	1028.835 ng/ml
Methadone	5.663	11318909	1191572.7	46.98	189706.8	420483	1001.708 ng/ml
Methamphetamine	3.177	8004661	373627.5	37.19	136609.6	489294	649.484 ng/ml
Metoprolol	4.314	863726	3315178.6	101.75	∞	90182	991.770 ng/ml
Mirtazapine	4.735	7359022	208805.6	52.13	113720.8	398516	944.853 ng/ml
Mitragynine	5.305	1870623	2892840.6	31.11	∞	398516	1001.295 ng/ml
Morphine	1.196	412622	∞	19.19	∞	5470	987.598 ng/ml
Norbuprenorphine	4.995	51153	11325.6	104.47	1608.2	8856	101.944 ng/ml
Nordiazepam	5.883	338779	20884.6	61.46	20922.4	11456	977.407 ng/ml
Norfentanyl	4.066	85235	9102.3	29.83	14297.6	167096	71.674 ng/ml
Norhydrocodone	3.048	387681	∞	29.85	∞	38680	960.136 ng/ml
Noroxycodone	2.874	1351571	3067.1	45.99	50223.4	42290	1046.022 ng/ml
O-desmethyl-tramadol	3.344	14197501	943564.8	6.50	383639.6	620396	973.721 ng/ml
O-Desmethylvenlafaxine	4.038	1697952	25255.0	525.40	88591.9	68143	926.909 ng/ml
Olanzapine	4.728	5978896	100979.3	44.26	78206.7	162834	975.687 ng/ml
Oxycodone	2.802	4807274	21145.8	28.76	∞	187593	970.446 ng/ml
Oxymorphone	1.354	3336144	∞	42.93	∞	137099	943.705 ng/ml
Phentermine	3.754	1427361	∞	8.69	2159.1	232503	832.737 ng/ml
Promethazine	5.559	7855874	166340.2	37.69	91212.2	373742	1032.680 ng/ml
Pseudoephedrine	2.526	9156557	∞	17.20	∞	398516	986.055 ng/ml
Quetiapine	5.629	4009980	674021.5	59.14	916540.0	133358	514.626 ng/ml
Sertraline	5.804	226159	121370.4	132.29	113643.1	12420	873.936 ng/ml
Temazepam	5.814	915876	1163263.6	31.40	5253.2	38165	1049.083 ng/ml
Tramadol	4.218	10127199	∞	3.80	2824.7	594620	922.620 ng/ml
Trazodone	5.415	6144358	257176.7	156.26	∞	387075	889.977 ng/ml
Venlafaxine	5.039	11310547	664767.2	35.41	256045.4	544581	1016.458 ng/ml
Zolpidem	5.156	14105707	1305936.4	29.86	652336.8	689754	922.484 ng/ml