










REVIEWED

By Brittany Wylie at 1:00 pm, Sep 29, 2020

9/29/2020

**Worklist: 4546**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2020-1803	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2020-1828	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1830	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2020-1838	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1840	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1851	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1860	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1863	1	AVK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2020-1871	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date 9/25/20

Analyst: Anne Nord

Plate lot#: 200513 (part IDP-111-2)

Plate Expiration: 11/13/20

**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:** 20G20792 **Urine Blank lot:** 73020

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

**LCMS-QQQ ID:** 69679

## Pre-Analytic:

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

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. 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) Pipette ID: 1926134 or 250µL hydrolyzed urine in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette 250µL 0.5M ammonium hydroxide in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer 300µL of blood+base/urine+base mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792*
- 8. Wait 5 minutes.
- 9. Add 900uL ethyl acetate.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add 900uL ethyl acetate.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 15. Remove plate containing eluate. Urine samples add 50 ul 1% HCl in MeOH, 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:

Limited curve ranges –lamotrigine 5-250, lorazepam 5-500, and metoprolol 5-500

Not evaluated Norhydrocodone.

Shortly after the run started, the pressure maxed out and the instrument shut down. I changed the needle seat on 9/26/20 and reinjected the samples that had already run. I did not evaluate any of the samples that were injected prior to changing the needle seat.

A

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1			IS + Cal. 1	IS + QC_1	1840-1				IS + Sample	IS + Cal. 8
B	IS + Cal. 2	IS + QC_2			IS + Cal. 2	IS + QC_2	1851-1				IS + Sample	IS + Cal. 7
C	IS + Cal. 3	qc3			IS + Cal. 3	IS + QC_3	1863-1				IS + Sample	IS + Cal. 6
D	IS + Cal. 4	IS + QC_4			IS + Cal. 4	IS + QC_4	1871-1				qc2 urine	IS + Cal. 5
E	IS + Cal. 5	Qc 2 urine			IS + Cal. 5	qc2 urine	1860-1				IS + QC_4	IS + Cal. 4
F	IS + Cal. 6				IS + Cal. 6	neg blood	neg urine				IS + QC_3	IS + Cal. 3
G	IS + Cal. 7				IS + Cal. 7	1828-1	1803-1				IS + QC_2	IS + Cal. 2
H	IS + Cal. 8				IS + Cal. 8	1838-1	1830-1				IS + QC_1	IS + Cal. 1

AM 28 plate  
map  
extracted  
9/25/20

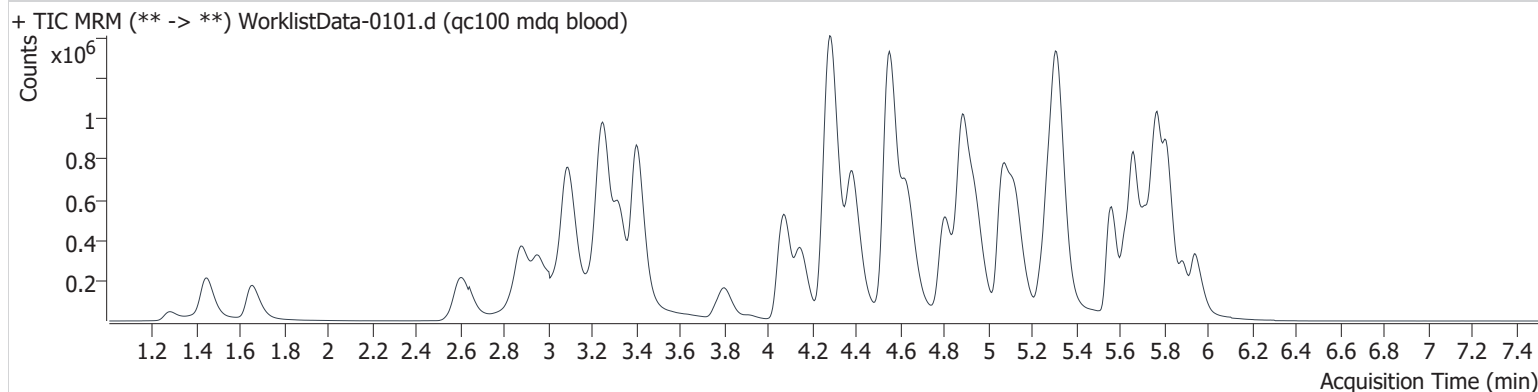
c2020-

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0101.d
<b>Type</b>	QC	<b>Sample</b>	qc100 mdq blood
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 10:08:38 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.171	21606	33338.8	75.3	611.9	48831	10.375 ng/ml
7-aminoclonazepam	4.292	453559	1741.9	95.9	3191.4	175203	99.610 ng/ml
a-hydroxyalprazolam	5.702	75513	2378.8	60.8	2072.6	38687	110.470 ng/ml
alpha-PVP	4.387	1389087	18871.2	51.2	11481.9	551872	101.134 ng/ml
Alprazolam	5.776	504112	2770.8	120.5	2676.0	184814	98.080 ng/ml
Amphetamine	3.094	2067569	4959.6	47.9	4290.1	296434	107.018 ng/ml
Benzoylcegonine	3.915	32782	1870.4	8.0	119.2	10140	97.535 ng/ml
Buprenorphine	5.753	8514	855.9	17.2	1420.1	30292	10.002 ng/ml
Bupropion	4.806	1124914	36326.8	66.6	14942.6	348119	107.464 ng/ml
Carisoprodol	5.726	364078	3637.3	65.6	4128.3	168105	106.415 ng/ml
Citalopram	5.250	520083	5823.3	43.1	194701.1	208974	109.685 ng/ml
Clonazepam	5.625	526623	19555.2	30.6	583.4	78809	107.291 ng/ml
Cocaine	4.286	1106345	326381.2	46.6	1639.6	799037	103.918 ng/ml
Codeine	2.619	126670	2597.9	114.7	4667.3	66622	104.226 ng/ml
Cyclobenzaprine	5.632	489143	76263.0	7.9	622.1	144402	104.127 ng/ml
Dextromethorphan	5.289	347778	2735.0	71.3	305255.9	160948	105.569 ng/ml
Dextrorphan	4.151	269915	62590.4	223.0	5616.3	322177	104.401 ng/ml
Diazepam	5.942	405514	13783.6	86.1	4684.9	190476	106.111 ng/ml
Dihydrocodeine	2.597	364265	13066.7	57.2	6484.1	180665	105.445 ng/ml
Diphenhydramine	5.321	1893866	18787.8	30.0	34948.8	988269	100.476 ng/ml
Doxylamine	4.548	2870263	160728.3	98.1	240934.7	1090422	102.329 ng/ml
EDDP	5.284	472062	5765.4	238.7	15293.6	583414	93.743 ng/ml
Fentanyl	5.110	46371	739.1	74.5	642.5	219083	9.898 ng/ml
Fluoxetine	5.714	327503	202663.2	7.3	5570.2	112323	107.281 ng/ml
Hydrocodone	3.056	558722	2504.8	34.1	1368.6	299737	105.922 ng/ml
Hydromorphone	1.652	383053	16799.3	74.4	2701.4	112012	99.162 ng/ml
Ketamine	4.066	999630	13477.9	39.7	1802.9	427757	106.034 ng/ml
Lamotrigine	4.319	78501	9315.7	88.9	2206.9	427757	118.767 ng/ml
Lorazepam	5.749	390395	5617.1	44.8	556.4	184814	106.255 ng/ml
MDA	3.236	1369065	17754.3	24.7	1898.6	394891	104.231 ng/ml
MDMA	3.328	898289	289.1	90.9	8306.3	81806	109.115 ng/ml
Meprobamate	4.935	326905	13734.9	27.5	2103.0	125038	101.429 ng/ml
Methadone	5.662	1136480	6504.7	48.8	30810.5	489576	99.577 ng/ml

# AM #28 Multi-Drug Quant. Results

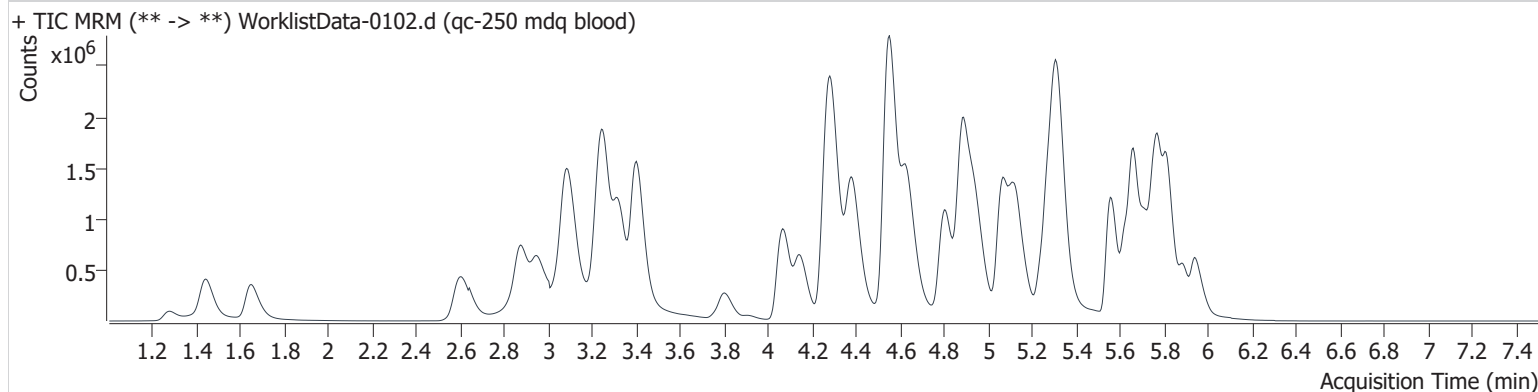
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	1087024	5043.5	45.2	2360.2	505874	113.095 ng/ml
Metoprolol	4.344	164593	819.9	94.6	1664.8	427757	104.179 ng/ml
Mirtazapine	4.635	1362372	98165.9	45.3	12394.3	489576	103.928 ng/ml
Mitragynine	5.244	150763	2493.1	29.9	1222.5	219083	108.858 ng/ml
Morphine	1.281	59695	1437.2	22.0	2603.4	9367	108.664 ng/ml
Norbuprenorphine	5.017	1218	171.8	101.7	1441.8	5699	10.332 ng/ml
Nordiazepam	5.891	338919	9687.6	65.6	49920.2	120507	102.586 ng/ml
Norfentanyl	4.107	19242	70.9	278.3	1442.4	653169	10.056 ng/ml
Noroxycodone	2.953	498670	1348.1	39.5	5249.8	164659	107.468 ng/ml
O-desmethyl-tramadol	3.404	2074020	236751.7	6.6	5034.4	1129927	99.881 ng/ml
Oxazepam	5.756	626242	12162.1	77.9	1077.0	316789	111.853 ng/ml
Oxycodone	2.876	1243688	8763.5	26.7	5087.8	461278	108.144 ng/ml
Oxymorphone	1.444	611954	2602.8	41.2	12064.3	225971	106.491 ng/ml
Phentermine	3.811	282483	1027.5	7.9	581.8	350134	109.741 ng/ml
Promethazine	5.559	651123	2291353.4	37.7	10930.8	301769	100.538 ng/ml
Quetiapine	5.557	534547	7385.2	60.3	193841.7	70811	106.220 ng/ml
Sertraline	5.776	155669	3424.6	101.1	189620.4	61947	101.125 ng/ml
Temazepam	5.818	1100064	2827.9	30.3	1435.7	521597	102.628 ng/ml
Tramadol	4.268	2356554	4057.0	3.5	1617.2	1140161	104.982 ng/ml
Trazodone	5.126	898773	6710.2	76.9	11900.2	377232	97.046 ng/ml
Venlafaxine	5.066	1506045	1319.5	39.4	8158.1	870869	103.566 ng/ml
Zolpidem	4.885	2580617	14561.7	30.3	6893.4	1054944	103.480 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0102.d
<b>Type</b>	QC	<b>Sample</b>	qc-250 mdq blood
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-C6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 10:19:27 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	49608	7932.2	75.5	4650.9	44799	26.026 ng/ml
7-aminoclonazepam	4.292	882427	3951.1	94.2	34163.8	141666	239.760 ng/ml
a-hydroxyalprazolam	5.702	142191	1611.8	67.8	1699.5	33300	241.812 ng/ml
alpha-PVP	4.382	3106524	44776.0	51.3	9760.6	508050	244.927 ng/ml
Alprazolam	5.776	1062082	12193.2	119.2	315.3	152328	249.021 ng/ml
Amphetamine	3.089	4335393	28632.8	47.7	12941.1	271385	245.431 ng/ml
Benzoylcegonine	3.910	76893	3719.3	7.8	888.9	8817	262.037 ng/ml
Buprenorphine	5.753	19639	1434.4	15.1	1655.5	28776	24.306 ng/ml
Bupropion	4.806	2614287	187673.0	66.3	16389.5	349094	249.213 ng/ml
Carisoprodol	5.726	726564	27616.0	64.7	4703.0	144400	247.176 ng/ml
Citalopram	5.245	1197349	6829.6	44.3	488197.8	213803	247.053 ng/ml
Clonazepam	5.620	1080943	28291.1	30.3	811590.2	70339	247.279 ng/ml
Cocaine	4.286	2342639	176356.5	47.0	83659.6	693220	253.491 ng/ml
Codeine	2.619	280855	1843.9	114.4	9748.0	61215	251.201 ng/ml
Cyclobenzaprine	5.632	1186375	531191.7	8.1	94110.5	146069	250.604 ng/ml
Dextromethorphan	5.289	789734	3172.3	76.2	1010533.8	150477	256.327 ng/ml
Dextrorphan	4.146	602753	10030.9	218.5	8799480.4	295335	254.388 ng/ml
Diazepam	5.942	881815	5185.4	86.9	15415.5	172557	254.801 ng/ml
Dihydrocodeine	2.592	811074	13815.3	57.2	13509.8	170615	248.625 ng/ml
Diphenhydramine	5.316	4415225	2066.0	29.9	122720.9	954749	241.903 ng/ml
Doxylamine	4.548	6480358	37271.2	98.1	450132.1	997220	252.715 ng/ml
EDDP	5.284	1216346	14527.6	219.6	21099.7	576817	244.274 ng/ml
Fentanyl	5.116	116186	2026.6	73.0	54898.9	217295	24.983 ng/ml
Fluoxetine	5.714	771844	460195.8	7.7	91393.3	113165	253.081 ng/ml
Hydrocodone	3.051	1200893	1794.6	34.4	2590.1	267939	255.739 ng/ml
Hydromorphone	1.647	907778	6388.3	69.9	27173.2	103791	253.914 ng/ml
Ketamine	4.066	2239718	26360.3	39.6	4482.9	400463	254.168 ng/ml
Lamotrigine	4.314	153682	4756.2	89.8	3619.1	400463	249.779 ng/ml
Lorazepam	5.749	728020	9795.7	44.7	1997.1	152328	241.437 ng/ml
MDA	3.231	2985743	7211.7	25.2	5288.2	347734	258.875 ng/ml
MDMA	3.323	2024648	106788.2	89.9	7693.4	79327	253.938 ng/ml
Meprobamate	4.935	658230	79907.4	27.3	6885.5	103342	247.584 ng/ml
Methadone	5.662	2782674	27633.2	47.0	30684.8	480325	247.951 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	2176685	26776.6	44.7	6480.5	436169	272.249 ng/ml
Metoprolol	4.344	342096	4134.9	93.5	2000.0	400463	232.268 ng/ml
Mirtazapine	4.630	3200498	21222.6	46.0	175187.3	480325	247.261 ng/ml
Mitragynine	5.239	361366	3125.9	31.0	2195.9	217295	264.864 ng/ml
Morphine	1.276	134847	11266.9	21.6	2162.8	8796	260.835 ng/ml
Norbuprenorphine	5.017	2824	5404.9	113.9	4786.6	5612	24.565 ng/ml
Nordiazepam	5.891	737193	1504249.2	63.1	795640.3	104928	256.479 ng/ml
Norfentanyl	4.107	42688	4196.8	280.7	4044.8	593030	24.553 ng/ml
Noroxycodone	2.953	1108478	4096.8	37.5	3955.4	153624	255.739 ng/ml
O-desmethyl-tramadol	3.404	4697311	10147.1	6.6	1238.5	1051779	241.616 ng/ml
Oxazepam	5.756	1221734	1039.2	78.6	2762.6	267123	260.045 ng/ml
Oxycodone	2.871	2832898	20708.8	25.4	9050.1	440677	258.597 ng/ml
Oxymorphone	1.439	1336235	11075.6	41.7	76263.0	208806	252.449 ng/ml
Phentermine	3.805	620722	1930.3	7.5	749.9	319964	263.040 ng/ml
Promethazine	5.559	1643583	4365965.6	37.7	11689.7	315900	242.282 ng/ml
Quetiapine	5.552	1218946	10004.2	59.9	1007666.6	69851	245.913 ng/ml
Sertraline	5.776	355178	3851.5	100.7	383195.4	55997	255.963 ng/ml
Temazepam	5.818	2417512	51850.9	30.2	3277.6	466772	251.864 ng/ml
Tramadol	4.262	5116284	2894.1	3.3	4546.7	1044104	249.517 ng/ml
Trazodone	5.126	2122423	12109.2	78.0	19829.3	353576	243.877 ng/ml
Venlafaxine	5.066	3450395	2441.8	39.4	17858.3	803095	255.716 ng/ml
Zolpidem	4.885	5788871	19529.9	30.2	10598.8	967559	253.164 ng/ml

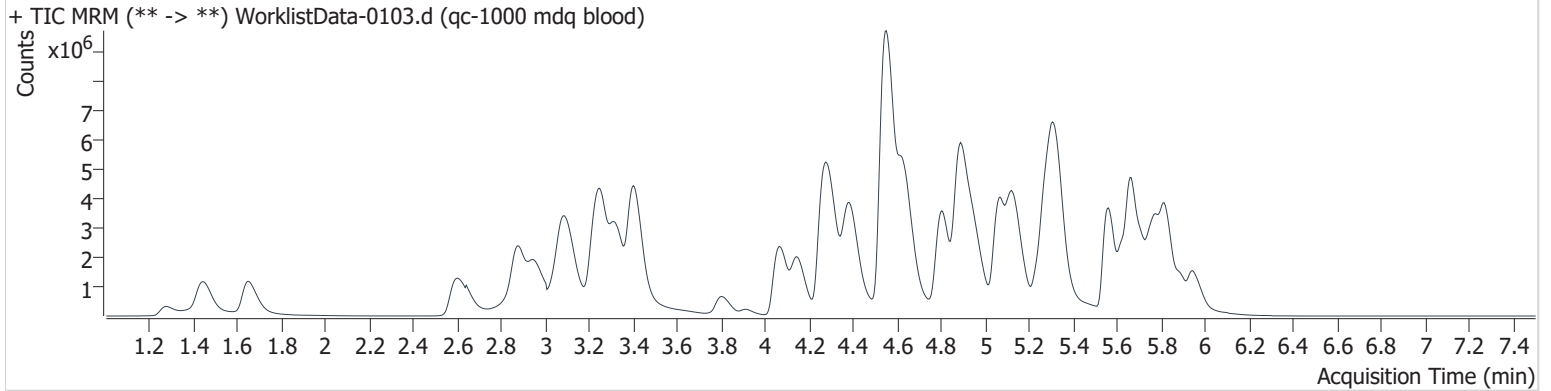


# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
Calibration Last Update 9/28/2020 8:52:54 AM

Instrument 69679 Data File WorklistData-0103.d  
Type QC Sample qc-1000 mdq blood  
Acq. Method MDQP1 5-27-20.m Operator Anne Nord  
Sample Position P2-D6 Comment  
Injection Volume 2  
Acq. Date-Time 9/26/2020 10:30:14 AM  
Sample Info.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	192545	30344.9	74.6	2307.1	44050	102.851 ng/ml
7-aminoclonazepam	4.297	1657675	42769.2	92.3	1737.4	62099	1027.684 ng/ml
a-hydroxyalprazolam	5.697	317045	878.4	64.1	1290.7	17860	1005.667 ng/ml
alpha-PVP	4.388	9934030	28385.5	51.7	30507.2	385514	1030.476 ng/ml
Alprazolam	5.776	2830986	68462.8	114.2	7165.1	87545	1151.002 ng/ml
Amphetamine	3.094	10421794	13635.3	48.3	22720.4	182776	876.643 ng/ml
Benzoylcegonine	3.915	424907	23876.5	7.7	833.1	9421	1352.549 ng/ml
Buprenorphine	5.753	65446	4096.0	15.2	14749.4	22455	103.849 ng/ml
Bupropion	4.801	8947408	7177.3	63.6	29449.2	307267	969.395 ng/ml
Carisoprodol	5.726	1553711	5509.2	62.7	3424.8	77896	979.727 ng/ml
Citalopram	5.240	3244441	11765.4	44.3	1657639.0	142770	1003.080 ng/ml
Clonazepam	5.620	2452069	207245.5	30.9	832319.4	41359	955.164 ng/ml
Cocaine	4.286	6549651	136365.5	46.8	3578.1	477794	1027.969 ng/ml
Codeine	2.624	900535	11523.2	112.9	4971.7	51257	961.326 ng/ml
Cyclobenzaprine	5.627	3239752	648855.6	8.3	8312.0	99990	1001.723 ng/ml
Dextromethorphan	5.289	2203210	560704.0	73.9	1236193.5	101692	1057.979 ng/ml
Dextrorphan	4.146	2194076	450289.1	226.7	319473.9	275263	993.640 ng/ml
Diazepam	5.947	2801328	3327.3	86.2	5570.5	134726	1036.947 ng/ml
Dihydrocodeine	2.587	2883474	14420.5	57.9	41582.3	164950	914.273 ng/ml
Diphenhydramine	5.325	13474174	641034.8	29.8	2592.1	714148	985.715 ng/ml
Doxylamine	4.548	24721451	898449.4	97.6	1667289.0	943610	1019.014 ng/ml
EDDP	5.284	4613268	24203.5	225.6	4434.4	513229	1041.187 ng/ml
Fentanyl	5.115	364153	6480.7	77.2	6567.5	170173	99.945 ng/ml
Fluoxetine	5.714	1823096	395536.2	8.1	207093.1	70351	966.004 ng/ml
Hydrocodone	3.046	3842116	2534.8	35.3	1276.1	231634	948.479 ng/ml
Hydromorphone	1.647	3428622	102129.9	70.2	47979.9	98799	1008.051 ng/ml
Ketamine	4.065	7483916	86954.0	39.0	27781.6	337819	1007.633 ng/ml
Lamotrigine	4.319	292855	4591.4	93.9	5195.8	337819	565.877 ng/ml ocr
Lorazepam	5.744	1073466	11959.1	45.8	1916.2	87545	620.718 ng/ml ocr
MDA	3.221	7725965	63655.6	24.9	16078.7	243235	959.006 ng/ml
MDMA	3.323	6466070	137060.9	86.9	114536.2	63507	1013.753 ng/ml
Meprobamate	4.935	1405097	2065.9	27.0	11662.2	57630	948.672 ng/ml
Methadone	5.662	9863686	247965.0	45.0	166688.5	414202	1018.053 ng/ml

qc-1000 mdq blood

Generated at 8:55 AM on 9/28/2020

ocr = outside curve range





# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Methamphetamine	3.252	5296599	25174.6	42.9	∞	277244	1062.737	ng/ml
<del>Metoprolol</del>	<del>4.344</del>	<del>807104</del>	<del>16632.6</del>	<del>94.2</del>	<del>82930.3</del>	<del>337819</del>	<del>651.051</del>	<del>ng/ml</del> ocr
Mirtazapine	4.635	11719709	102112.1	44.7	39300.2	414202	1046.271	ng/ml
Mitragynine	5.239	1006438	9710.5	32.2	3014.8	170173	945.171	ng/ml
Morphine	1.276	470460	14883.7	23.3	99020.6	9064	882.238	ng/ml
Norbuprenorphine	5.012	8568	14762.0	104.5	3453.1	4527	92.903	ng/ml
Nordiazepam	5.891	2049047	2148718.7	66.5	37092.4	70862	1056.057	ng/ml
Norfentanyl	4.107	141382	10865.2	271.8	9206.5	448707	107.431	ng/ml
Noroxycodone	2.953	3355674	3008.4	37.5	1163.3	118514	1002.899	ng/ml
O-desmethyl-tramadol	3.404	17286763	258711.3	6.4	5685.5	881509	1057.608	ng/ml
Oxazepam	5.751	2189249	5581.4	77.5	14115.8	126226	988.790	ng/ml
Oxycodone	2.871	10429371	6953.3	26.5	14170.1	403559	1041.226	ng/ml
Oxymorphone	1.439	4797428	12093.5	40.9	16258.3	191488	990.049	ng/ml
Phentermine	3.805	1886069	12903.5	6.7	11235.6	244712	1043.246	ng/ml
Promethazine	5.559	5666940	1410346.0	36.6	13416.7	267327	986.840	ng/ml
Quetiapine	5.557	3983425	46534.9	62.5	35732.9	60168	933.734	ng/ml
Sertraline	5.776	798357	85549.6	102.7	513797.9	31378	1028.175	ng/ml
Temazepam	5.818	7094276	213929.8	29.8	25821.3	323820	1065.021	ng/ml
Tramadol	4.257	15333748	761190.1	3.2	6354.9	844803	925.462	ng/ml
Trazodone	5.126	7920521	20646.5	78.3	401664.8	280619	1145.200	ng/ml
Venlafaxine	5.065	12180251	885983.9	38.0	72362.6	663572	1089.025	ng/ml
Zolpidem	4.885	19096321	10919.3	29.5	25290.2	815642	990.832	ng/ml

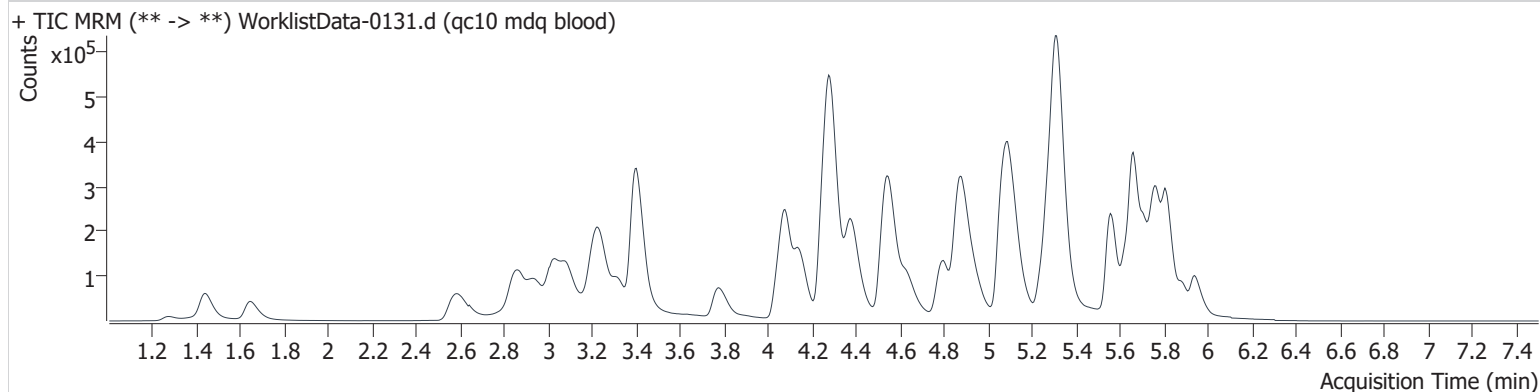
ocr = outside curve range

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0131.d
<b>Type</b>	QC	<b>Sample</b>	qc10 mdq blood
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-A6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 12:50:19 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	2328	3903.1	68.3	3712.0	48218	1.096 ng/ml
7-aminoclonazepam	4.287	47598	635.0	102.7	117.5	187785	9.700 ng/ml
a-hydroxyalprazolam	5.702	7545	2076.7	62.9	4866.9	42714	9.886 ng/ml
alpha-PVP	4.387	143249	7235.0	49.8	1870.7	581948	10.367 ng/ml
Alprazolam	5.776	51272	2482.6	118.1	2441.0	199500	10.224 ng/ml
Amphetamine	3.089	179766	1200.2	51.2	525.7	272407	9.902 ng/ml
Benzoylcegonine	3.910	2802	97.3	7.4	56.2	9884	9.128 ng/ml
Buprenorphine	5.758	1241	194.2	18.1	318.7	45991	0.947 ng/ml
Bupropion	4.806	115997	2866.5	67.2	877.6	394195	9.673 ng/ml
Carisoprodol	5.726	35568	1621.7	65.9	286.2	174715	10.037 ng/ml
Citalopram	5.250	75117	512.1	44.3	2469.8	336386	9.670 ng/ml
Clonazepam	5.625	53189	2542.6	29.9	4574.1	84337	9.752 ng/ml
Cocaine	4.286	118538	2210.9	46.3	1561.9	871833	10.292 ng/ml
Codeine	2.619	12664	433.2	112.1	534.0	68770	10.287 ng/ml
Cyclobenzaprine	5.632	81932	161594.0	8.4	536.7	251996	9.389 ng/ml
Dextromethorphan	5.294	58412	3986.9	77.7	1394.9	291331	9.848 ng/ml
Dextrorphan	4.146	29860	2185.4	215.0	5772.4	366497	10.116 ng/ml
Diazepam	5.942	38944	1727.0	86.9	1336.6	199394	9.673 ng/ml
Dihydrocodeine	2.597	34978	760.7	56.9	1578.4	184903	9.886 ng/ml
Diphenhydramine	5.316	264279	8191.0	29.6	1042.3	1440543	9.979 ng/ml
Doxylamine	4.553	288341	2867.9	98.2	1347.8	1114682	10.003 ng/ml
EDDP	5.289	53830	5459.2	219.3	1958.7	640315	9.758 ng/ml
Fentanyl	5.116	8273	177.8	78.7	7337.7	400556	0.978 ng/ml
Fluoxetine	5.714	45090	1800.6	7.7	3159.6	155415	9.246 ng/ml
Hydrocodone	3.056	55505	1108.7	32.6	496.7	304021	9.696 ng/ml
Hydromorphone	1.647	37648	865.7	64.5	1116.4	117661	9.102 ng/ml
Ketamine	4.061	101309	3376.2	38.9	237.1	433942	10.334 ng/ml
Lamotrigine	4.314	6961	743.2	108.7	8330.5	433942	9.194 ng/ml
Lorazepam	5.749	46093	256.7	44.2	79.6	199500	10.893 ng/ml
MDA	3.231	148749	1325.1	24.5	239.8	427072	10.023 ng/ml
MDMA	3.323	95258	120.2	89.0	287.2	90182	10.278 ng/ml
Meprobamate	4.935	30133	2180.0	30.8	705.4	118018	9.604 ng/ml
Methadone	5.662	168942	12828.3	49.3	2468.7	763679	9.828 ng/ml

# AM #28 Multi-Drug Quant. Results

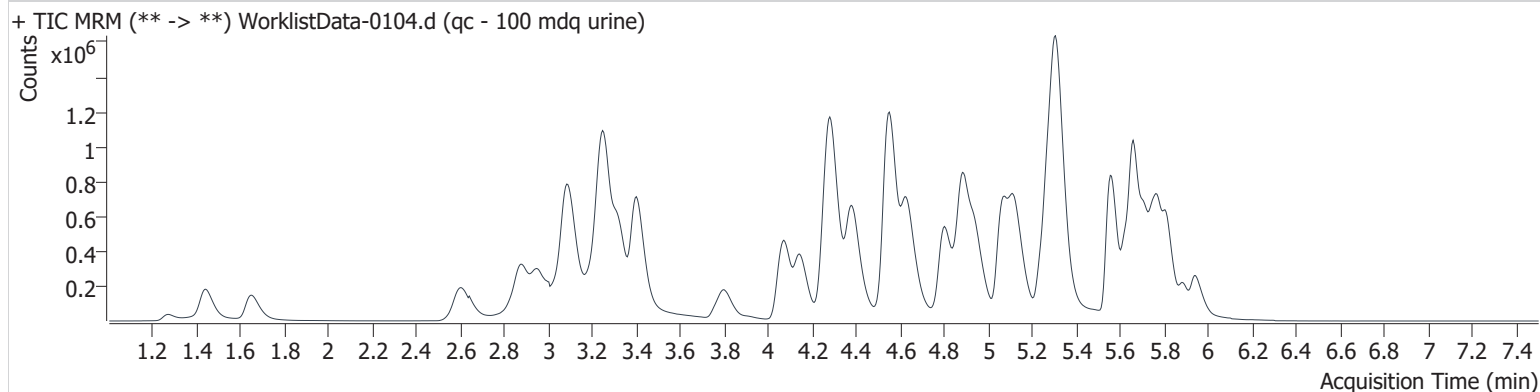
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	78004	767.1	43.2	1173.2	283409	8.161 ng/ml
Metoprolol	4.349	16845	961.3	99.1	1393.5	433942	9.787 ng/ml
Mirtazapine	4.635	176873	1664.7	45.4	671.8	763679	9.695 ng/ml
Mitragynine	5.244	24279	394.9	33.1	9727.8	400556	8.435 ng/ml
Morphine	1.281	5922	2146.6	23.8	209.7	9810	10.647 ng/ml
Norbuprenorphine	5.022	186	234.7	107.5	321.2	8799	0.868 ng/ml
Nordiazepam	5.891	33828	1525.0	63.2	968.9	120228	10.135 ng/ml
Norfentanyl	4.107	1716	127.3	299.1	153.6	647018	0.917 ng/ml
Noroxycodone	2.953	51762	361.2	36.1	493.7	173637	10.780 ng/ml
O-desmethyl-tramadol	3.404	202650	7828.4	6.4	339.2	1155638	10.429 ng/ml
Oxazepam	5.761	68439	794.4	83.2	625.3	369856	9.602 ng/ml
Oxycodone	2.876	116637	948.8	27.2	1748.7	458566	9.713 ng/ml
Oxymorphone	1.439	58395	1911.8	41.9	2025.4	222913	9.768 ng/ml
Phentermine	3.805	20705	103.2	8.3	84.4	284603	10.441 ng/ml
Promethazine	5.559	112011	10362.2	37.2	121.0	538955	9.777 ng/ml
Quetiapine	5.557	64044	1855.6	56.3	475.9	86220	10.199 ng/ml
Sertraline	5.781	17240	436.7	99.8	1392.9	68935	9.642 ng/ml
Temazepam	5.818	111562	1049.2	31.3	85.8	551495	9.945 ng/ml
Tramadol	4.268	243228	18127.2	3.5	165.3	1181256	10.050 ng/ml
Trazodone	5.126	114160	1925.9	78.1	1534.8	501207	9.650 ng/ml
Venlafaxine	5.066	151883	6841.1	39.4	1046.1	925825	10.788 ng/ml
Zolpidem	4.885	260497	3728.7	30.7	668.8	1076909	10.188 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0104.d
<b>Type</b>	QC	<b>Sample</b>	qc - 100 mdq urine
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-E6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 1:01:09 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	18415	12110.8	77.3	7402.0	40958	10.543 ng/ml
7-aminoclonazepam	4.287	328791	3610.8	97.7	825.1	125230	101.025 ng/ml
a-hydroxyalprazolam	5.702	51304	1494.1	65.2	1882.8	27467	105.708 ng/ml
alpha-PVP	4.387	1265416	12649.3	51.8	7520.9	503391	101.003 ng/ml
Alprazolam	5.776	336666	6767.4	117.0	7325.6	117119	103.303 ng/ml
Amphetamine	3.089	2276479	27926.1	47.0	10031.9	316404	110.402 ng/ml
Benzoylcegonine	3.915	23586	736.4	8.1	194.6	7905	90.070 ng/ml
Buprenorphine	5.758	12597	985.7	15.7	982.5	46515	9.636 ng/ml
Bupropion	4.801	1200757	18221.5	65.7	7417.6	386287	103.371 ng/ml
Carisoprodol	5.726	250189	10974.0	63.7	4288.9	113918	107.910 ng/ml
Citalopram	5.245	662451	1665.4	43.0	1197.9	281222	103.807 ng/ml
Clonazepam	5.620	350465	6843.8	30.8	9749.9	51872	108.485 ng/ml
Cocaine	4.286	926470	1247.7	46.5	12014.7	655710	106.042 ng/ml
Codeine	2.619	104719	917.3	118.8	3666.1	58260	98.543 ng/ml
Cyclobenzaprine	5.632	751895	95835.3	8.5	3758.9	219521	105.296 ng/ml
Dextromethorphan	5.289	540115	146046.3	74.7	5635.0	252871	104.355 ng/ml
Dextrorphan	4.146	290499	41801.1	226.3	15321.7	357242	101.333 ng/ml
Diazepam	5.942	313395	9277.6	86.8	10256.4	151275	103.255 ng/ml
Dihydrocodeine	2.592	315911	5668.2	58.1	14527.7	161848	102.079 ng/ml
Diphenhydramine	5.316	2174980	117549.6	30.6	9497.7	1167301	97.704 ng/ml
Doxylamine	4.548	2516351	9811.3	99.0	45122.5	959074	101.998 ng/ml
EDDP	5.284	603621	6117.0	223.3	67768.6	668840	104.556 ng/ml
Fentanyl	5.115	74944	618.6	74.0	9404.3	331961	10.557 ng/ml
Fluoxetine	5.714	551785	596736.9	7.9	983.9	202402	100.204 ng/ml
Hydrocodone	3.051	475569	2883.6	34.6	705.4	251983	107.253 ng/ml
Hydromorphone	1.647	337478	24580.4	66.3	12111.9	91435	107.040 ng/ml
Ketamine	4.066	823868	8774.0	40.1	2367.6	336873	110.981 ng/ml
Lamotrigine	4.314	63264	2224.3	91.4	3376.7	336873	121.568 ng/ml
Lorazepam	5.744	252917	3243.4	44.7	273.1	117119	108.642 ng/ml
MDA	3.231	1218742	1492.8	26.6	250.0	332621	110.185 ng/ml
MDMA	3.323	830567	22980.6	86.3	11278.2	74632	110.590 ng/ml
Meprobamate	4.935	237294	533.1	27.6	163.4	85893	107.199 ng/ml
Methadone	5.662	1497084	123529.5	46.8	60389.3	631838	101.631 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	1591164	3681.2	43.0	2943.2	701598	119.766 ng/ml
Metoprolol	4.344	138834	19717.2	92.1	1391.6	336873	111.639 ng/ml
Mirtazapine	4.630	1543377	10327.5	45.5	8642.9	631838	91.366 ng/ml
Mitragynine	5.244	272855	333709.2	32.5	8886.4	331961	130.269 ng/ml
Morphine	1.271	47361	9630.9	22.0	271.9	7530	107.242 ng/ml
Norbuprenorphine	5.022	1832	3720.1	102.1	1508.8	7980	11.114 ng/ml
Nordiazepam	5.891	259652	583999.6	63.7	4602.9	84294	112.370 ng/ml
Norfentanyl	4.107	19786	1240.9	270.2	879.2	655980	10.296 ng/ml
Noroxycodone	2.953	464184	4952.9	40.2	1566.7	153049	107.625 ng/ml
O-desmethyl-tramadol	3.404	1660304	108629.8	6.4	1398.7	902083	100.150 ng/ml
Oxazepam	5.756	396625	1215.4	75.8	228.7	209851	106.899 ng/ml
Oxycodone	2.876	1080257	11047.6	26.9	7587.3	387065	111.962 ng/ml
Oxymorphone	1.439	513853	4732.2	41.8	728.5	187350	107.861 ng/ml
Phentermine	3.805	318042	1281.0	7.7	338.4	390988	110.641 ng/ml
Promethazine	5.559	1217678	9511.1	38.0	11820.5	564092	100.583 ng/ml
Quetiapine	5.557	525756	8529.4	59.7	8276.5	71310	103.735 ng/ml
Sertraline	5.781	170863	2095.8	101.2	143625.8	67928	101.224 ng/ml
Temazepam	5.818	720067	2971.2	31.4	930.0	342968	102.165 ng/ml
Tramadol	4.268	1953528	3917.4	3.5	874.9	932506	106.414 ng/ml
Trazodone	5.126	1004295	61966.9	75.5	8640.3	418473	97.750 ng/ml
Venlafaxine	5.066	1318509	50407.5	38.7	6623.8	745271	105.926 ng/ml
Zolpidem	4.885	2085829	12946.4	31.6	7770.2	860883	102.493 ng/ml

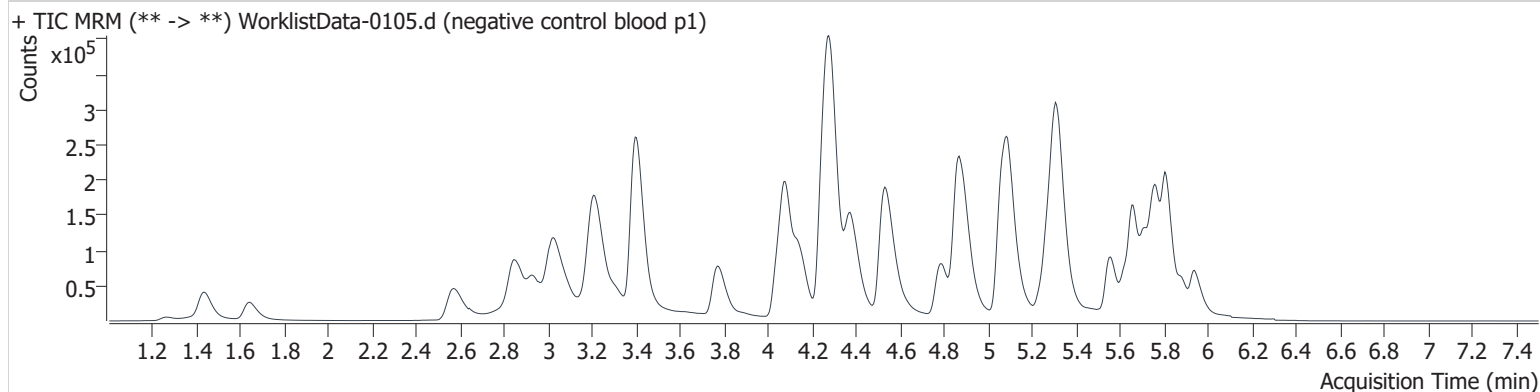
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# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0105.d
<b>Type</b>	Sample	<b>Sample</b>	negative control blood p1
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-F6	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 1:22:41 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



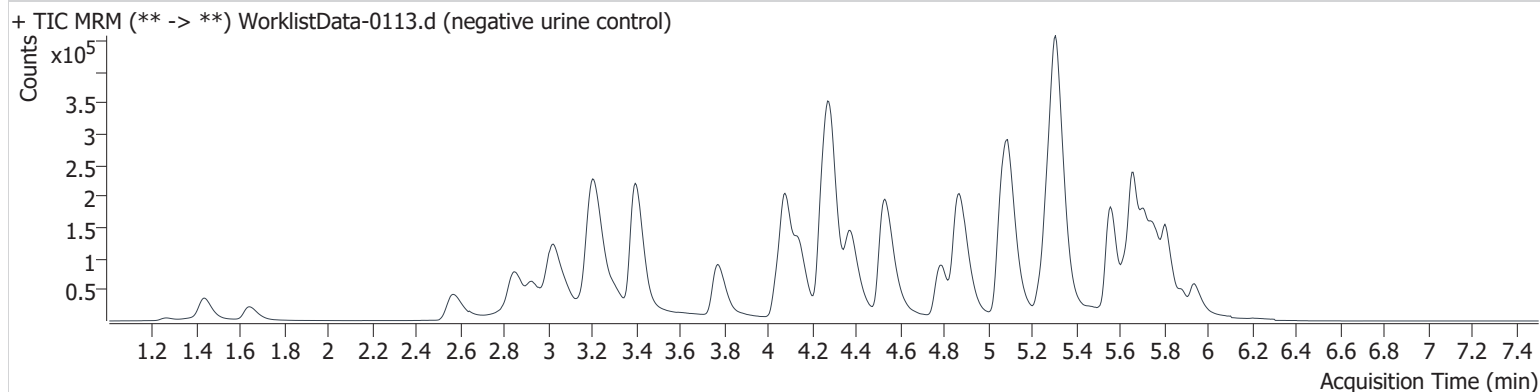
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# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0113.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine control
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-F7	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 2:49:08 PM		
<b>Sample Info.</b>			

## Sample Chromatogram





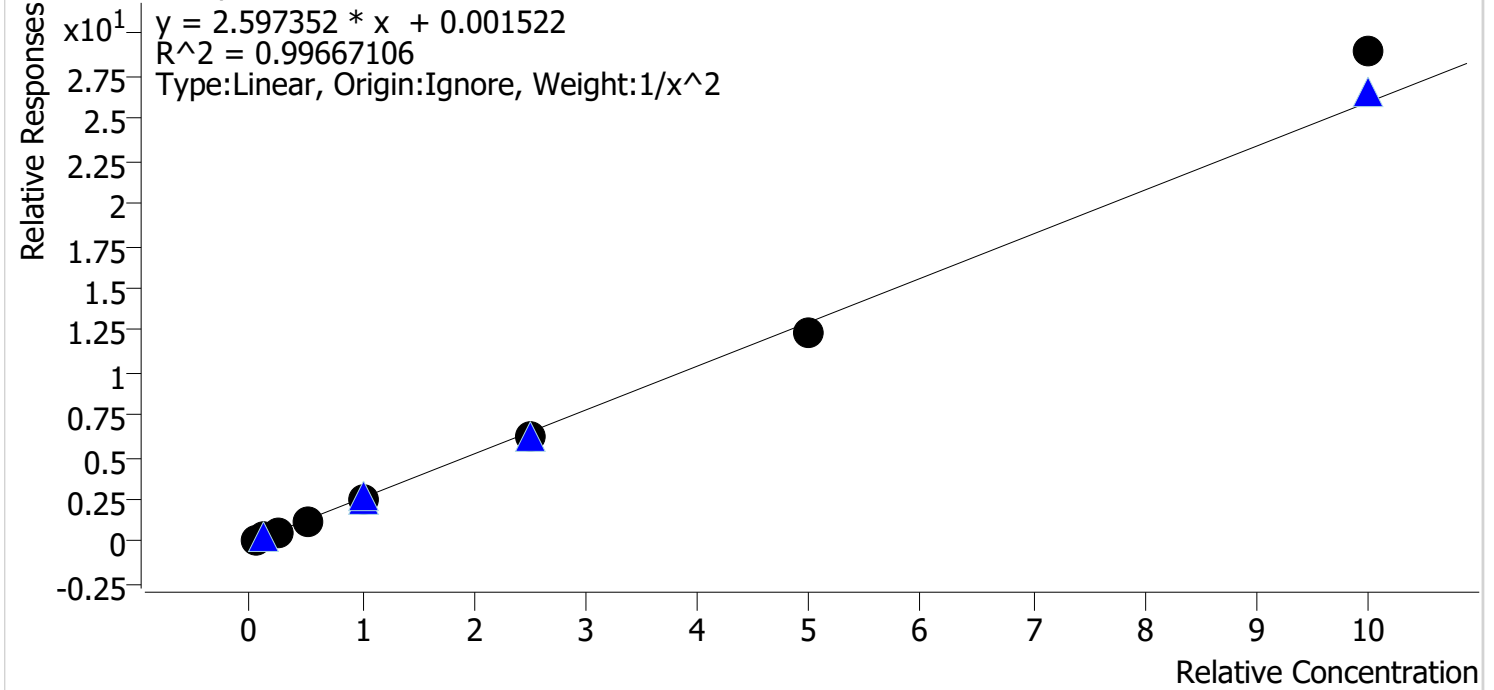


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs

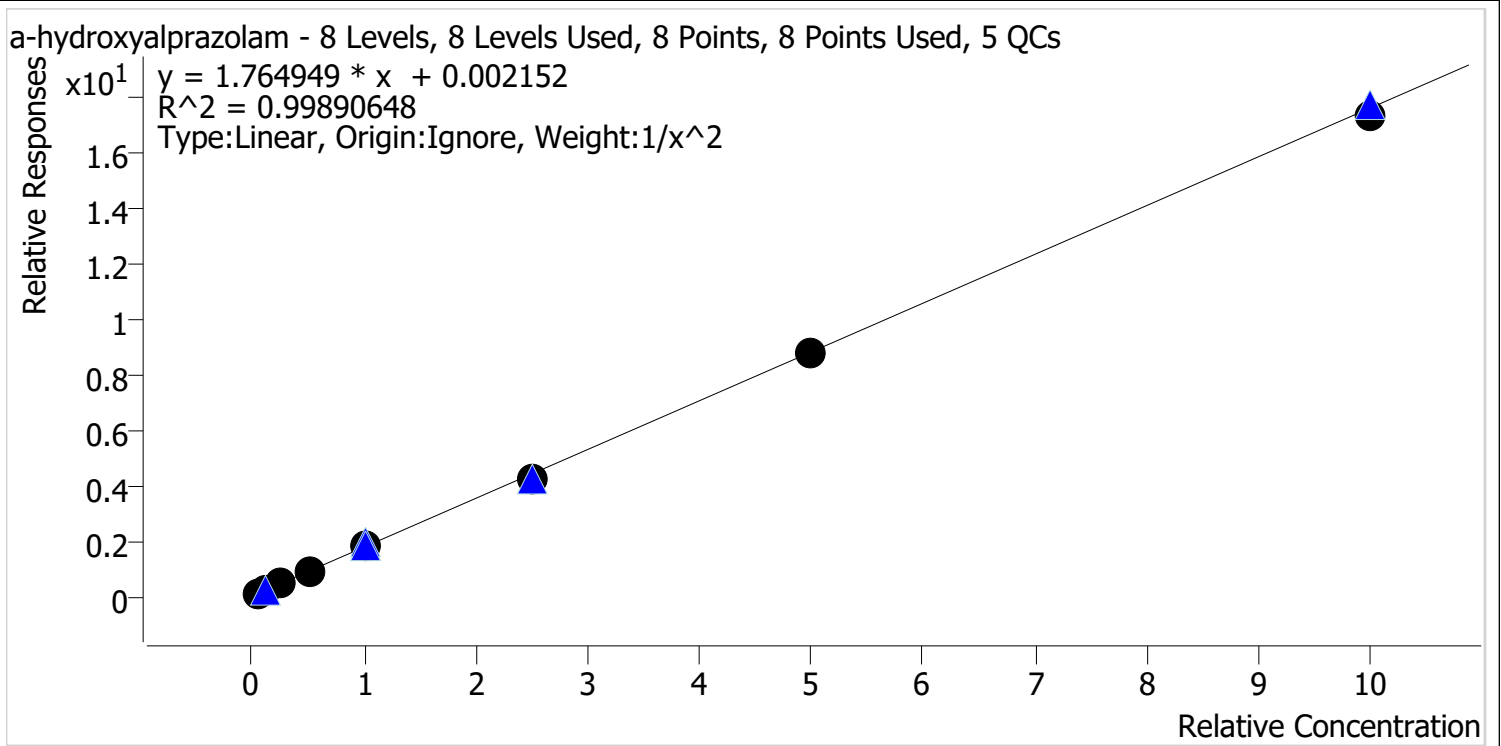


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	100.6
cal 2 mdq p1	2	✓	10.0	10.0	100.0
cal 3 mdq p1	3	✓	25.0	24.5	97.8
cal 4 mdq p1	4	✓	50.0	49.6	99.2
cal 5 mdq p1	5	✓	100.0	99.3	99.3
cal 6 mdq p1	6	✓	250.0	241.8	96.7
cal 7 mdq p1	7	✓	500.0	474.2	94.8
cal 8 mdq p1	8	✓	1000.0	1115.1	111.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	100.5
cal 2 mdq p1	2	✓	10.0	9.9	98.9
cal 3 mdq p1	3	✓	25.0	24.4	97.4
cal 4 mdq p1	4	✓	50.0	52.3	104.7
cal 5 mdq p1	5	✓	100.0	103.8	103.8
cal 6 mdq p1	6	✓	250.0	242.1	96.8
cal 7 mdq p1	7	✓	500.0	498.2	99.6
cal 8 mdq p1	8	✓	1000.0	981.9	98.2

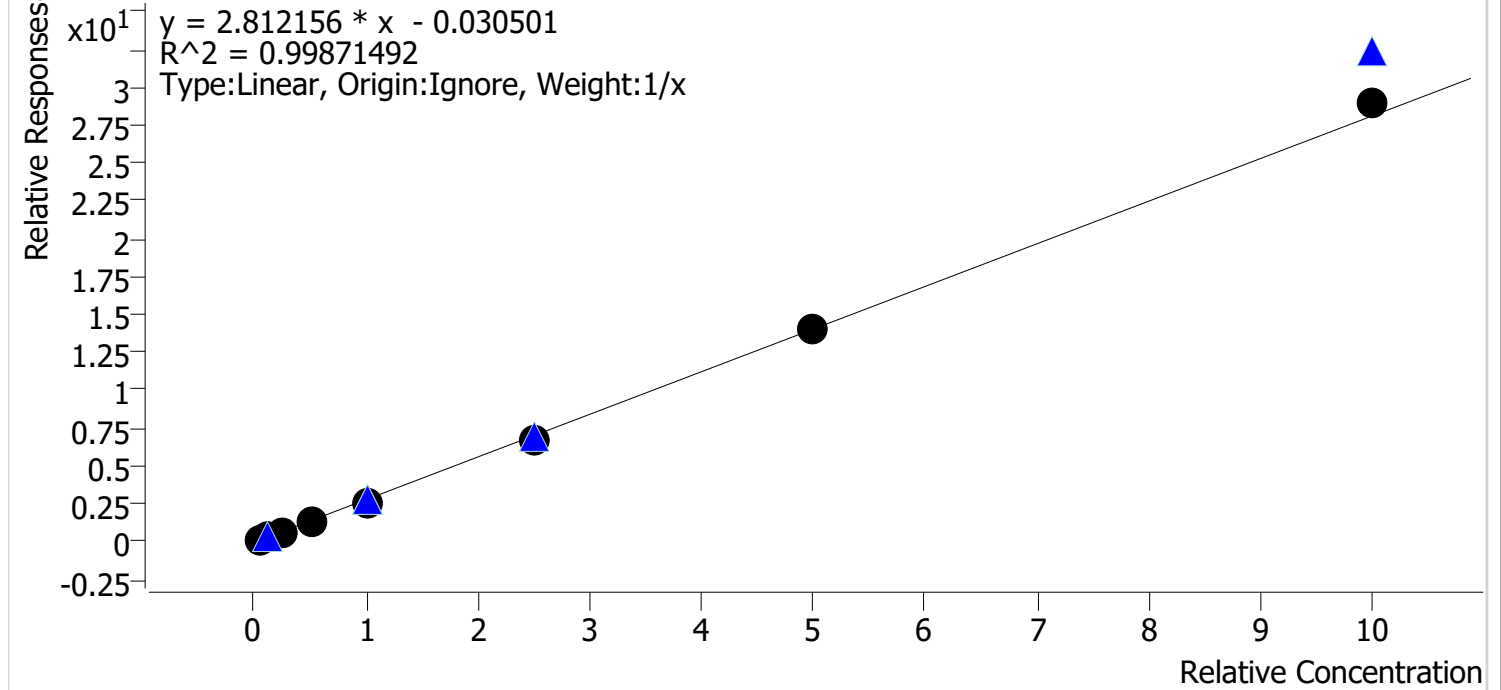


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\lam 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.8	116.2
cal 2 mdq p1	2	✓	10.0	10.2	102.1
cal 3 mdq p1	3	✓	25.0	24.3	97.2
cal 4 mdq p1	4	✓	50.0	47.6	95.1
cal 5 mdq p1	5	✓	100.0	93.2	93.2
cal 6 mdq p1	6	✓	250.0	236.0	94.4
cal 7 mdq p1	7	✓	500.0	496.1	99.2
cal 8 mdq p1	8	✓	1000.0	1026.9	102.7

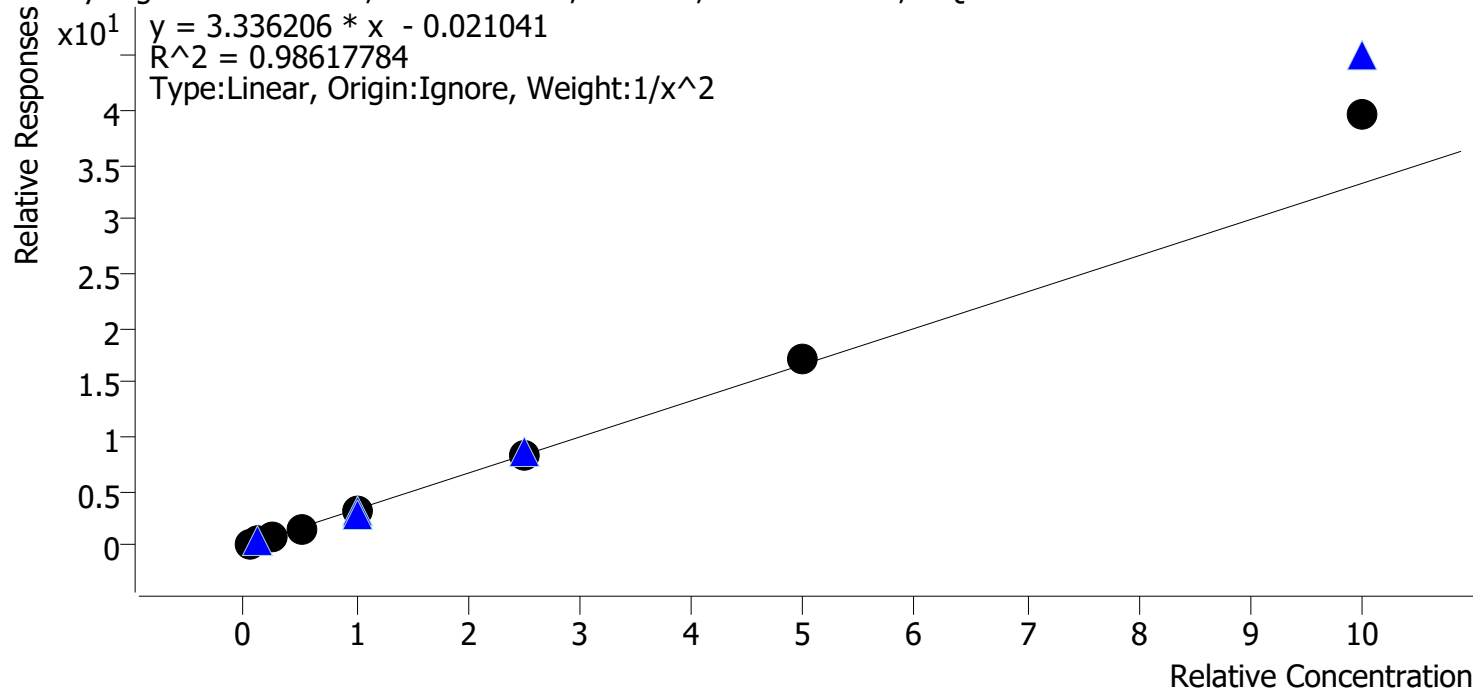


# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Benzoylecgonine	<b>Internal Standard</b>	Benzoylecgonine-d8

Benzoylecgonine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



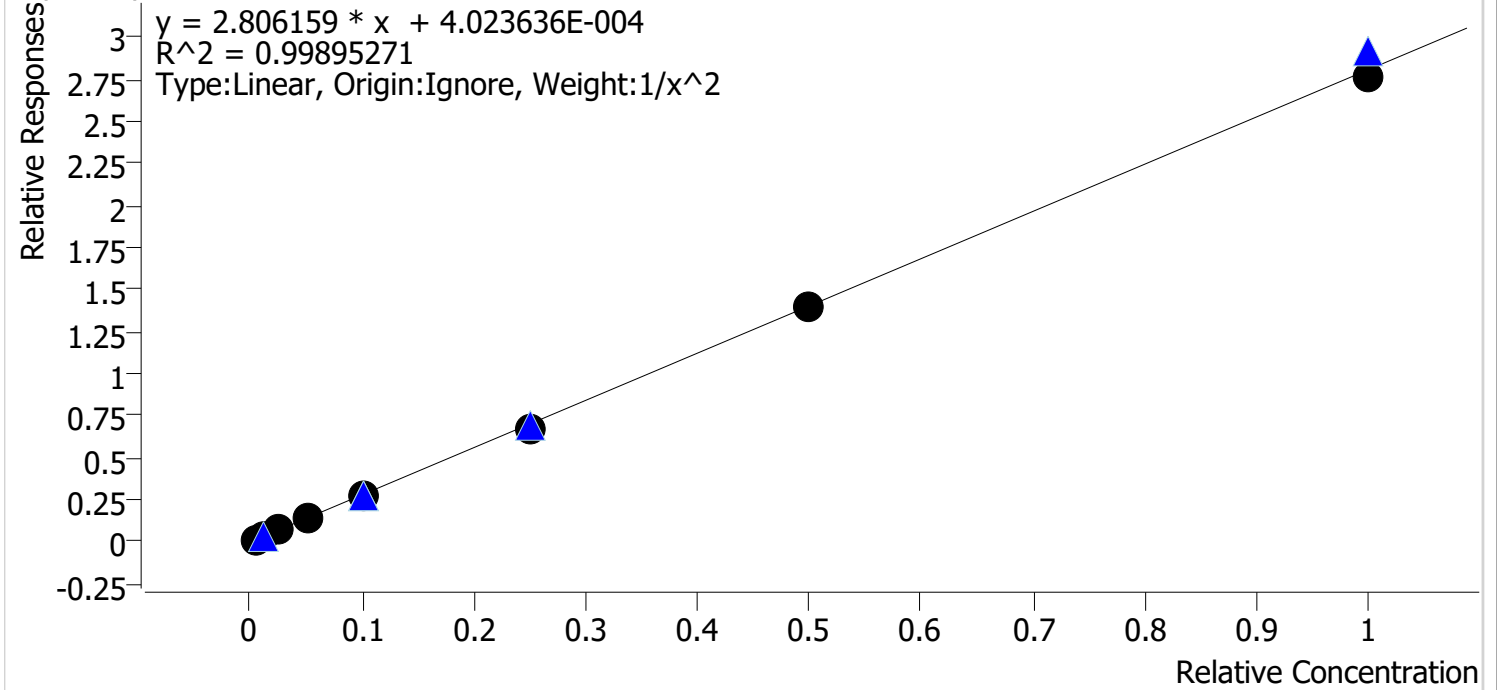
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.4	108.5
cal 2 mdq p1	2	✓	10.0	8.9	88.7
cal 3 mdq p1	3	✓	25.0	22.1	88.2
cal 4 mdq p1	4	✓	50.0	47.2	94.4
cal 5 mdq p1	5	✓	100.0	97.5	97.5
cal 6 mdq p1	6	✓	250.0	253.3	101.3
cal 7 mdq p1	7	✓	500.0	512.7	102.5
cal 8 mdq p1	8	✓	1000.0	1188.1	118.8

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Buprenorphine	<b>Internal Standard</b>	Buprenorphine-D4

Buprenorphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



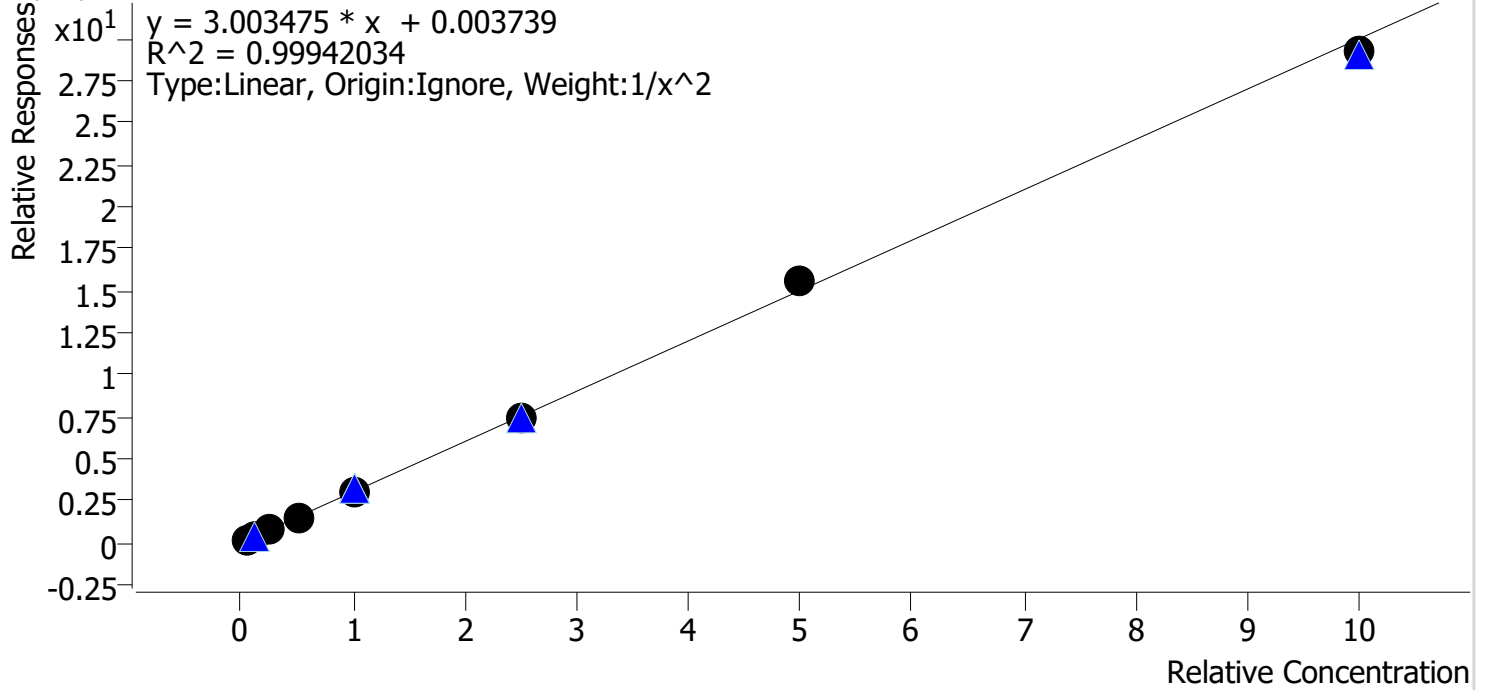
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	0.5	0.5	97.3
cal 2 mdq p1	2	✓	1.0	1.0	104.3
cal 3 mdq p1	3	✓	2.5	2.6	103.1
cal 4 mdq p1	4	✓	5.0	5.0	99.4
cal 5 mdq p1	5	✓	10.0	10.2	101.6
cal 6 mdq p1	6	✓	25.0	24.0	96.2
cal 7 mdq p1	7	✓	50.0	49.6	99.2
cal 8 mdq p1	8	✓	100.0	98.8	98.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9

Bupropion - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	99.3
cal 2 mdq p1	2	✓	10.0	10.1	101.2
cal 3 mdq p1	3	✓	25.0	25.3	101.2
cal 4 mdq p1	4	✓	50.0	49.9	99.8
cal 5 mdq p1	5	✓	100.0	98.2	98.2
cal 6 mdq p1	6	✓	250.0	247.1	98.8
cal 7 mdq p1	7	✓	500.0	520.1	104.0
cal 8 mdq p1	8	✓	1000.0	974.5	97.5





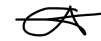






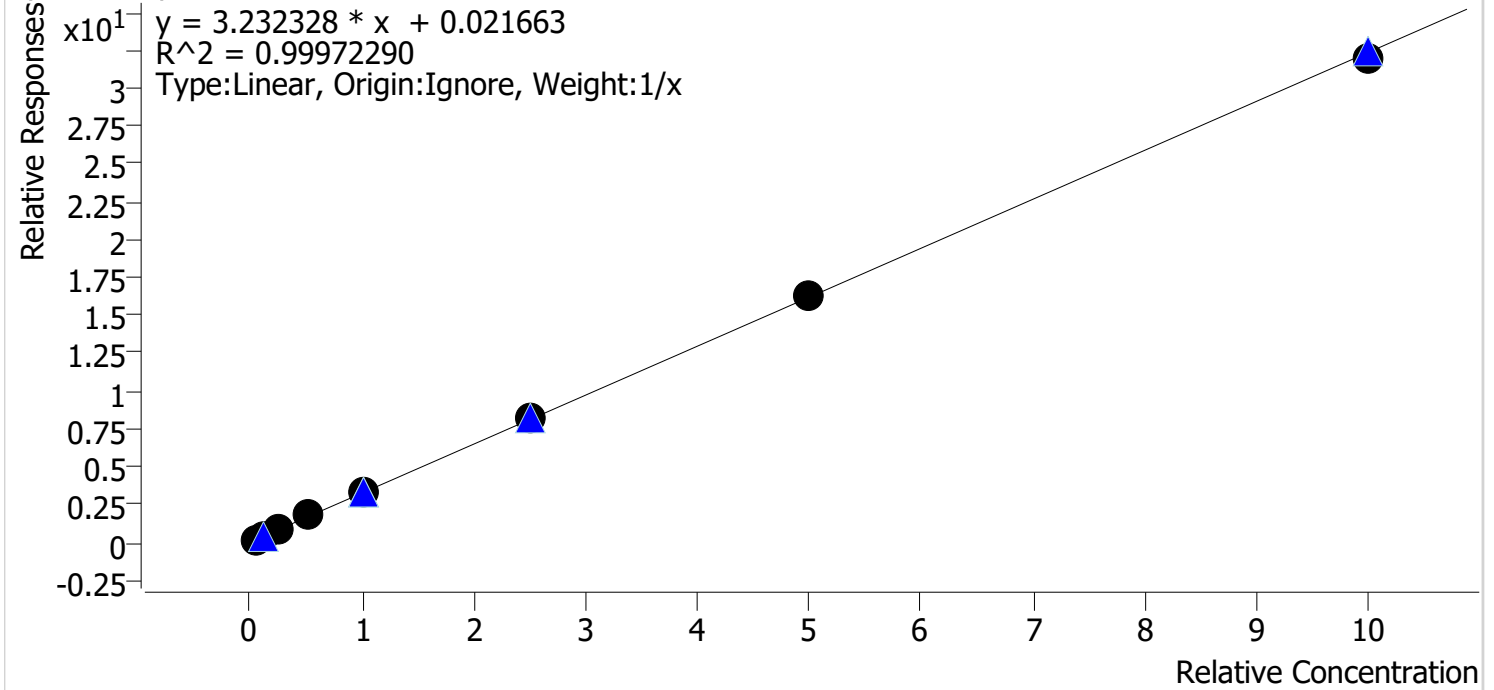


# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Cyclobenzaprine	<b>Internal Standard</b>	Cyclobenzaprine-D3

Cyclobenzaprine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



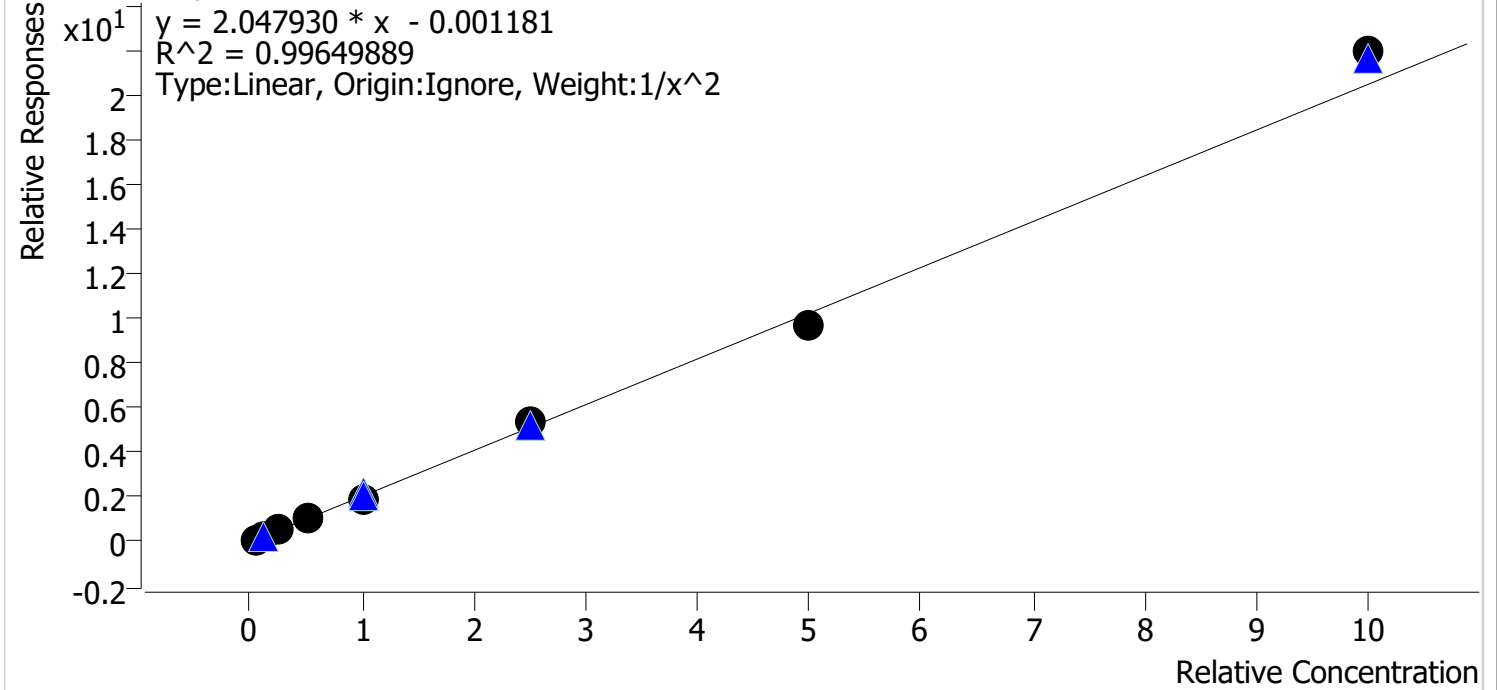
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	4.5	90.3
cal 2 mdq p1	2	✓	10.0	9.9	99.3
cal 3 mdq p1	3	✓	25.0	25.2	100.9
cal 4 mdq p1	4	✓	50.0	53.6	107.3
cal 5 mdq p1	5	✓	100.0	101.3	101.3
cal 6 mdq p1	6	✓	250.0	253.9	101.6
cal 7 mdq p1	7	✓	500.0	501.2	100.2
cal 8 mdq p1	8	✓	1000.0	990.3	99.0

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dextromethorphan	<b>Internal Standard</b>	Dextromethorphan-D3

Dextromethorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	100.0
cal 2 mdq p1	2	✓	10.0	10.2	101.7
cal 3 mdq p1	3	✓	25.0	24.0	95.8
cal 4 mdq p1	4	✓	50.0	51.5	103.1
cal 5 mdq p1	5	✓	100.0	92.2	92.2
cal 6 mdq p1	6	✓	250.0	261.7	104.7
cal 7 mdq p1	7	✓	500.0	476.9	95.4
cal 8 mdq p1	8	✓	1000.0	1071.5	107.1





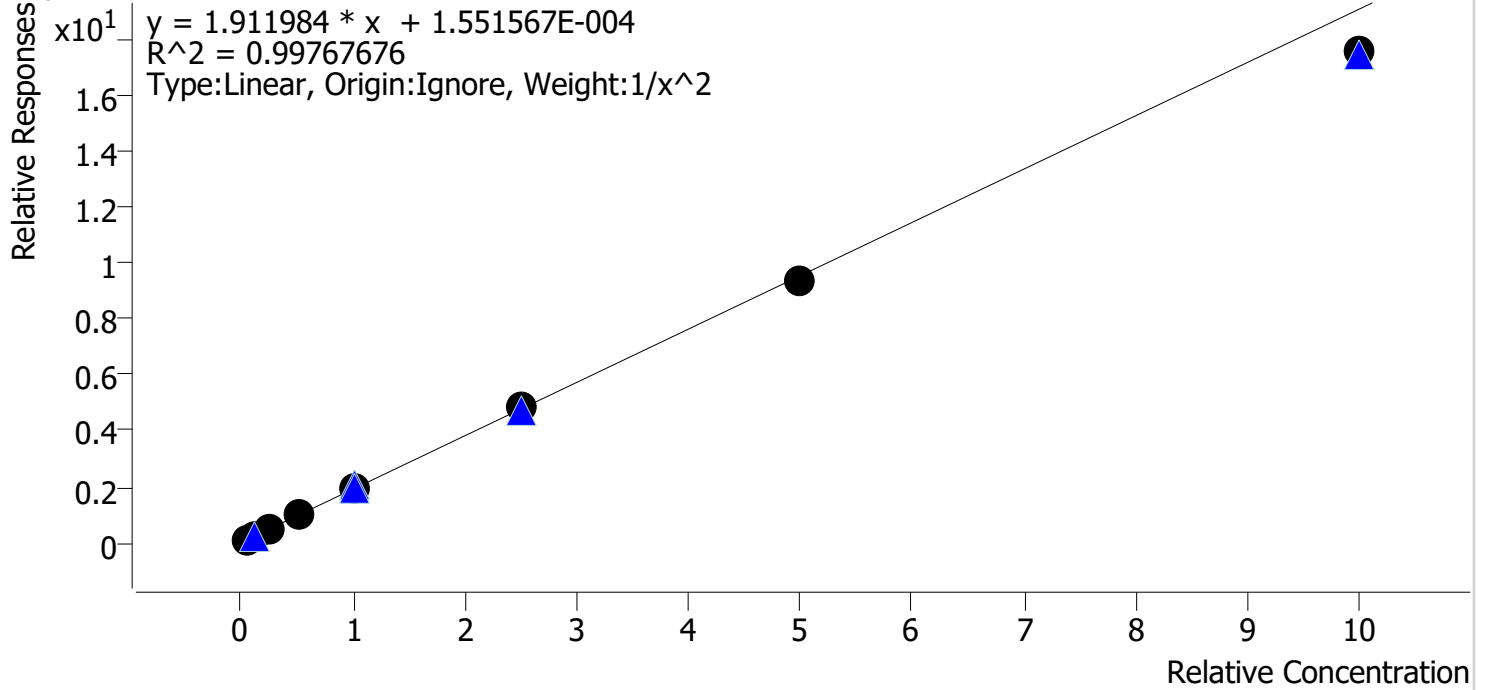


# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Dihydrocodeine	<b>Internal Standard</b>	Dihydrocodeine-D6

Dihydrocodeine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



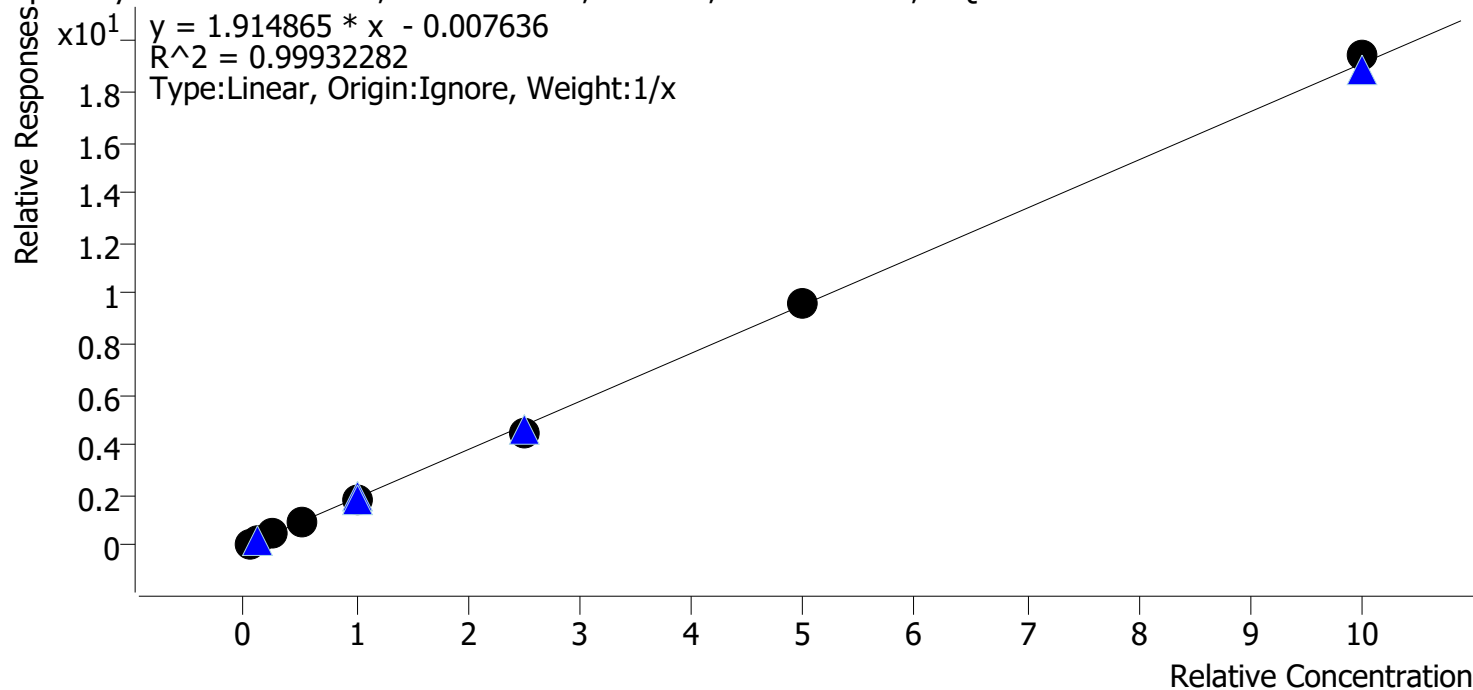
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	99.2
cal 2 mdq p1	2	✓	10.0	9.9	98.5
cal 3 mdq p1	3	✓	25.0	26.3	105.0
cal 4 mdq p1	4	✓	50.0	52.5	105.1
cal 5 mdq p1	5	✓	100.0	101.4	101.4
cal 6 mdq p1	6	✓	250.0	251.6	100.6
cal 7 mdq p1	7	✓	500.0	490.7	98.1
cal 8 mdq p1	8	✓	1000.0	920.4	92.0

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.3	105.6
cal 2 mdq p1	2	✓	10.0	10.5	104.5
cal 3 mdq p1	3	✓	25.0	24.3	97.3
cal 4 mdq p1	4	✓	50.0	50.5	100.9
cal 5 mdq p1	5	✓	100.0	94.8	94.8
cal 6 mdq p1	6	✓	250.0	237.7	95.1
cal 7 mdq p1	7	✓	500.0	500.8	100.2
cal 8 mdq p1	8	✓	1000.0	1016.2	101.6











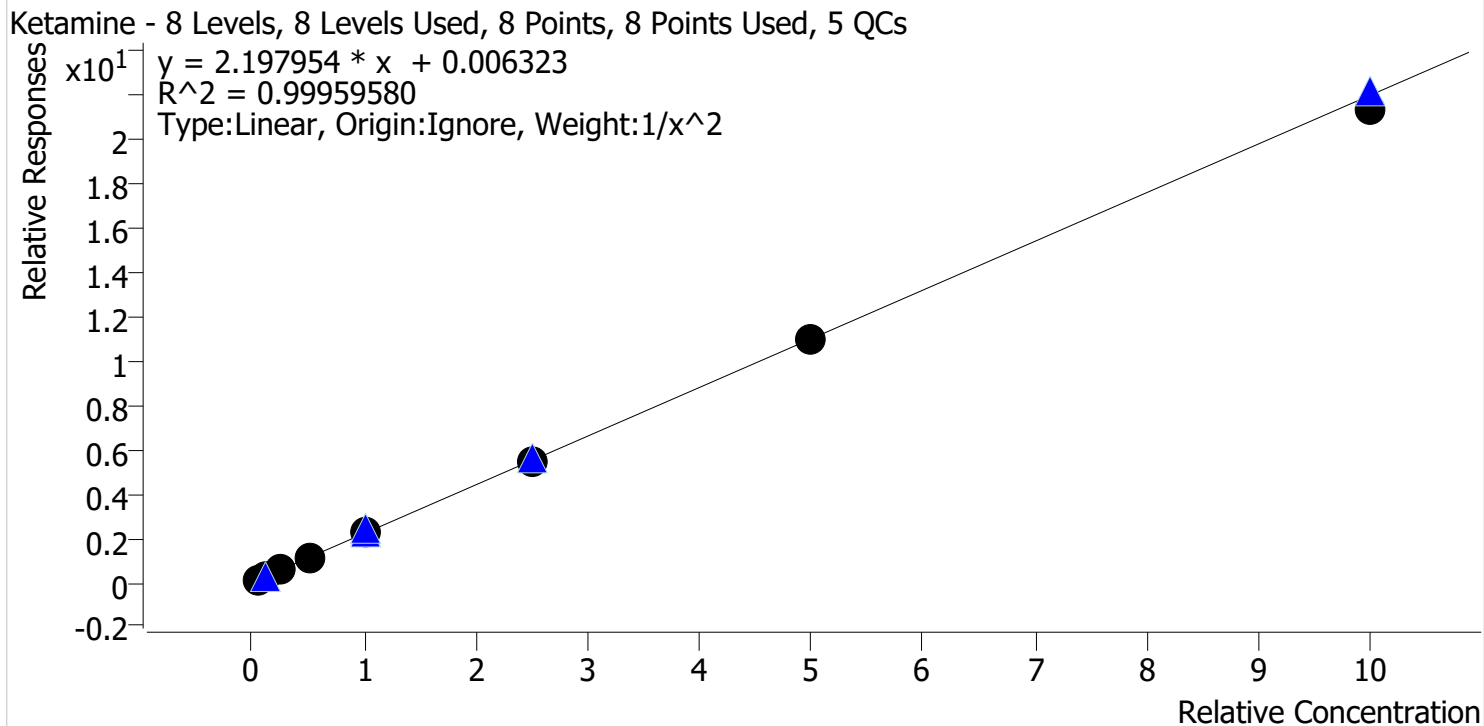




# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4



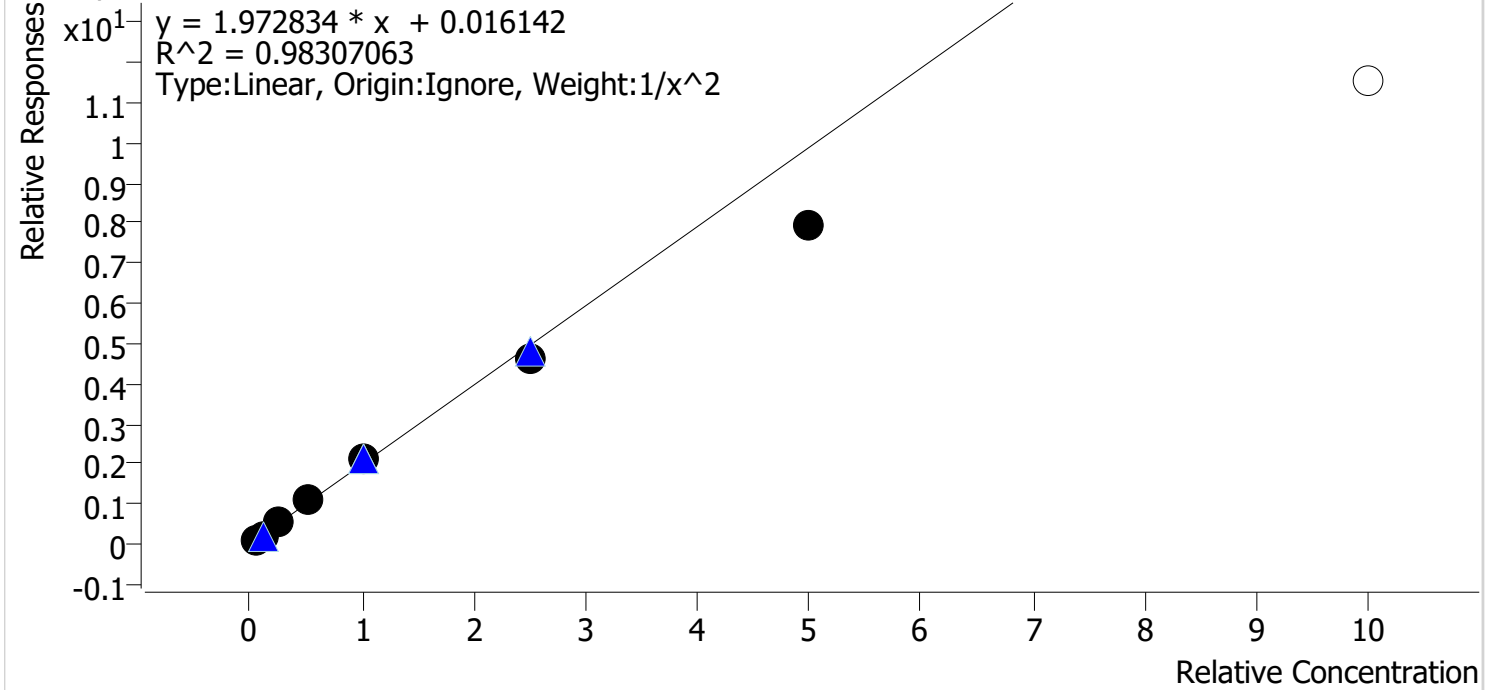
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	100.1
cal 2 mdq p1	2	✓	10.0	9.9	98.8
cal 3 mdq p1	3	✓	25.0	25.3	101.1
cal 4 mdq p1	4	✓	50.0	51.4	102.8
cal 5 mdq p1	5	✓	100.0	100.7	100.7
cal 6 mdq p1	6	✓	250.0	251.2	100.5
cal 7 mdq p1	7	✓	500.0	495.6	99.1
cal 8 mdq p1	8	✓	1000.0	969.4	96.9

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Alprazolam-D5

Lorazepam - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	4.7	93.8
cal 2 mdq p1	2	✓	10.0	10.6	105.8
cal 3 mdq p1	3	✓	25.0	28.1	112.5
cal 4 mdq p1	4	✓	50.0	54.1	108.1
cal 5 mdq p1	5	✓	100.0	105.5	105.5
cal 6 mdq p1	6	✓	250.0	233.9	93.5
cal 7 mdq p1	7	✓	500.0	403.4	80.7
cal 8 mdq p1	8	✗	1000.0	581.9	58.2

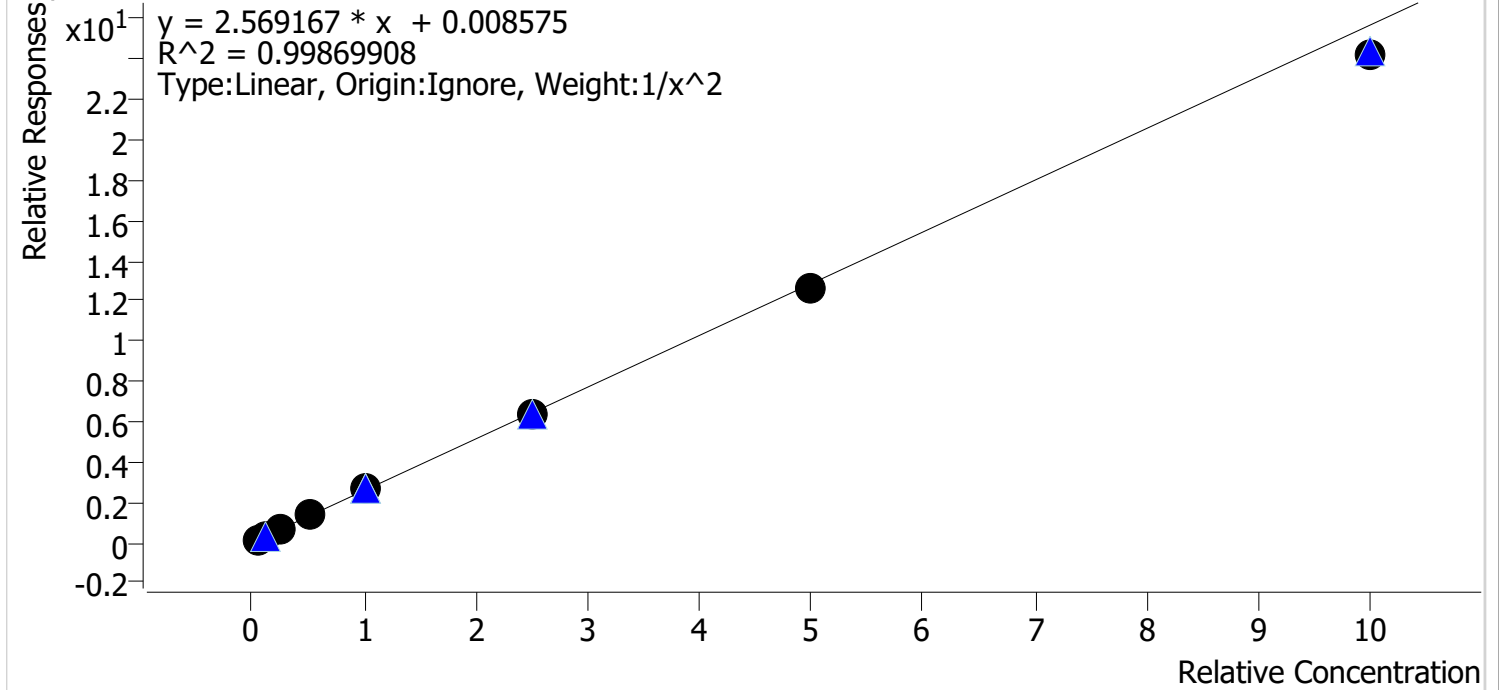


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

Meprobamate - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



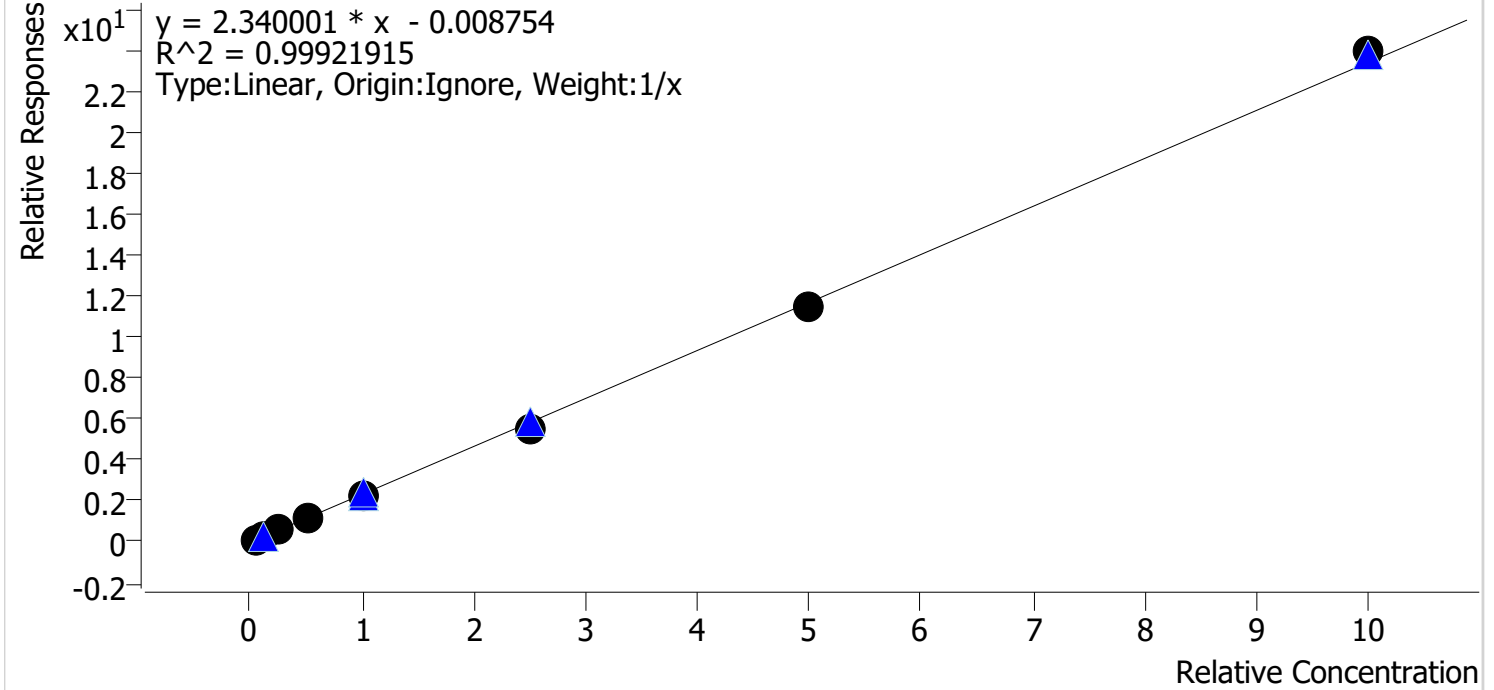
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	4.9	98.4
cal 2 mdq p1	2	✓	10.0	10.2	102.2
cal 3 mdq p1	3	✓	25.0	25.0	99.9
cal 4 mdq p1	4	✓	50.0	52.6	105.3
cal 5 mdq p1	5	✓	100.0	101.0	101.0
cal 6 mdq p1	6	✓	250.0	250.5	100.2
cal 7 mdq p1	7	✓	500.0	491.9	98.4
cal 8 mdq p1	8	✓	1000.0	945.9	94.6

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

Methadone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



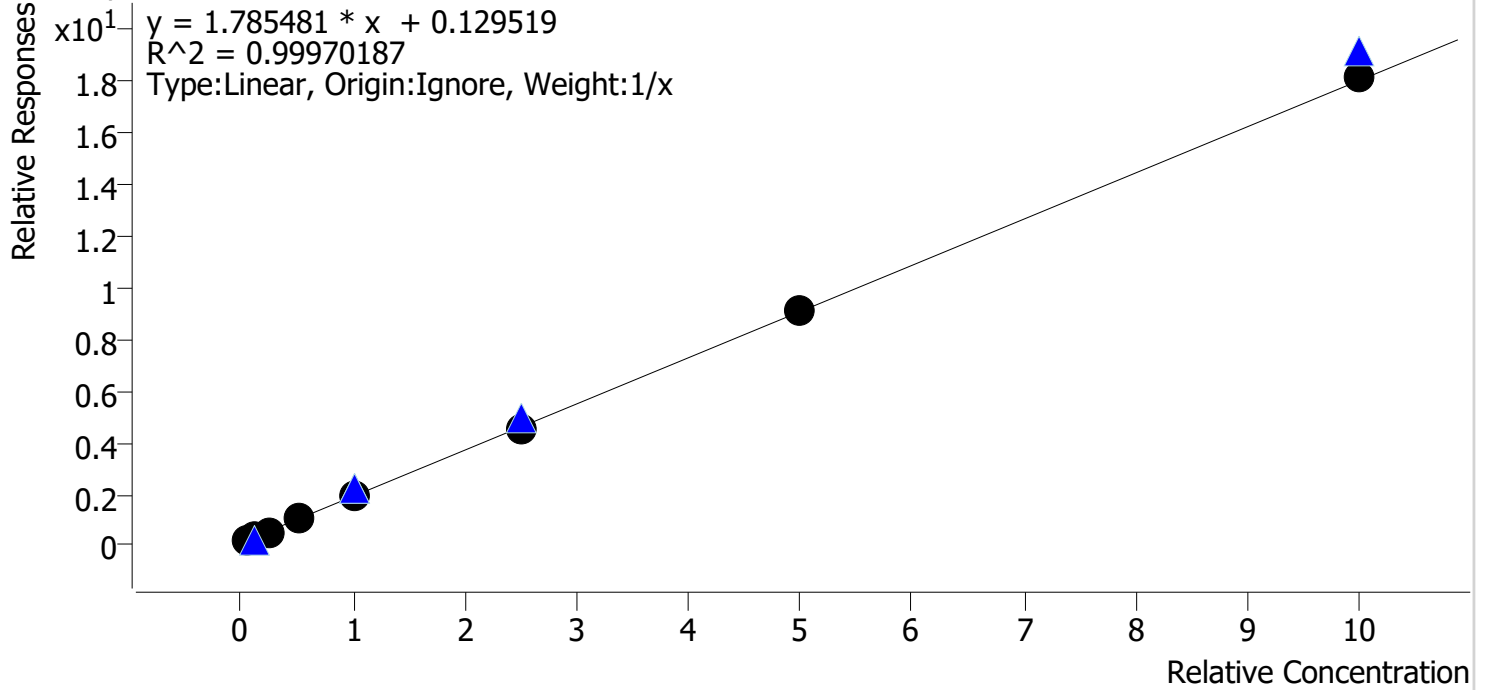
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.5	109.1
cal 2 mdq p1	2	✓	10.0	10.4	104.1
cal 3 mdq p1	3	✓	25.0	24.7	99.0
cal 4 mdq p1	4	✓	50.0	47.7	95.4
cal 5 mdq p1	5	✓	100.0	95.6	95.6
cal 6 mdq p1	6	✓	250.0	239.6	95.8
cal 7 mdq p1	7	✓	500.0	493.8	98.8
cal 8 mdq p1	8	✓	1000.0	1022.7	102.3

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Methamphetamine	<b>Internal Standard</b>	Methamphetamine-D11

Methamphetamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



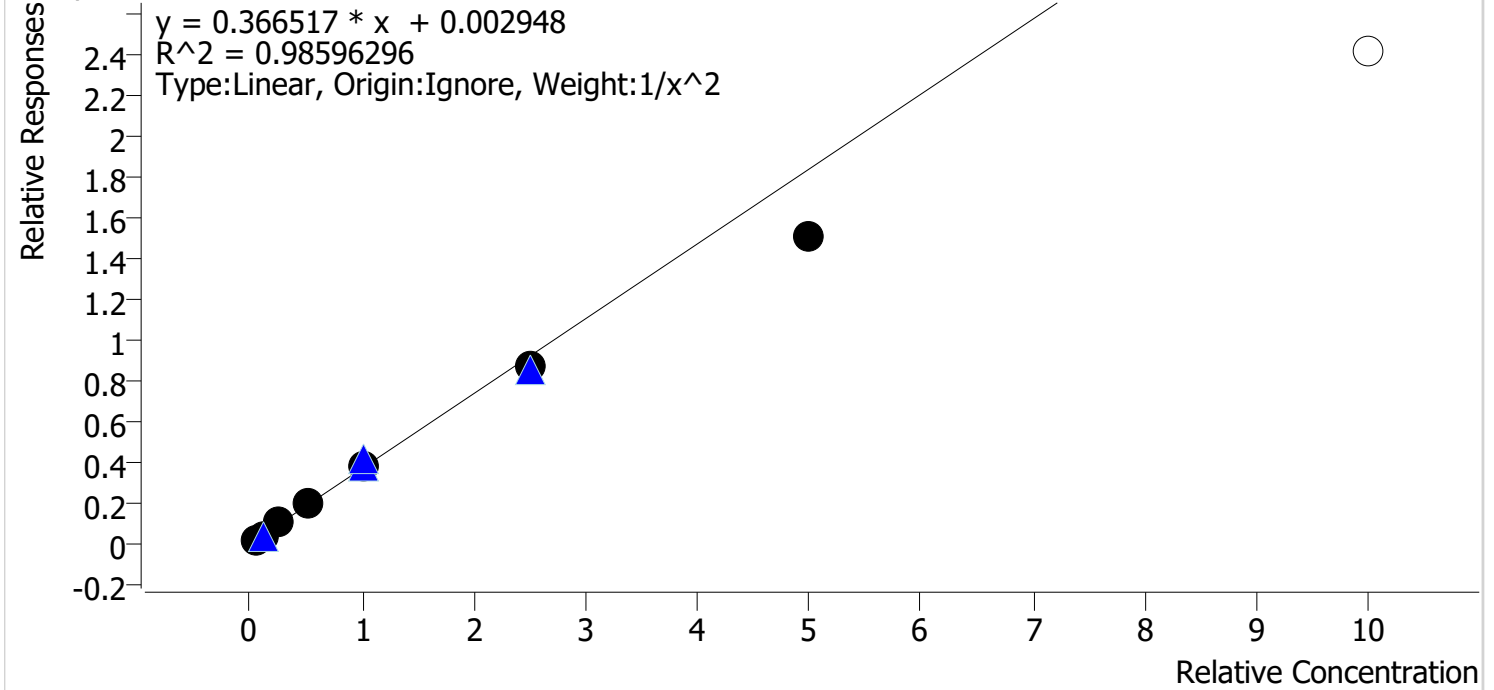
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.9	118.9
cal 2 mdq p1	2	✓	10.0	9.0	89.5
cal 3 mdq p1	3	✓	25.0	24.3	97.3
cal 4 mdq p1	4	✓	50.0	48.9	97.7
cal 5 mdq p1	5	✓	100.0	97.0	97.0
cal 6 mdq p1	6	✓	250.0	246.7	98.7
cal 7 mdq p1	7	✓	500.0	500.1	100.0
cal 8 mdq p1	8	✓	1000.0	1008.0	100.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Ketamine-D4

Metoprolol - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	4.7	93.9
cal 2 mdq p1	2	✓	10.0	10.7	106.9
cal 3 mdq p1	3	✓	25.0	27.3	109.4
cal 4 mdq p1	4	✓	50.0	54.6	109.2
cal 5 mdq p1	5	✓	100.0	103.1	103.1
cal 6 mdq p1	6	✓	250.0	238.8	95.5
cal 7 mdq p1	7	✓	500.0	410.3	82.1
cal 8 mdq p1	8	✗	1000.0	656.7	65.7

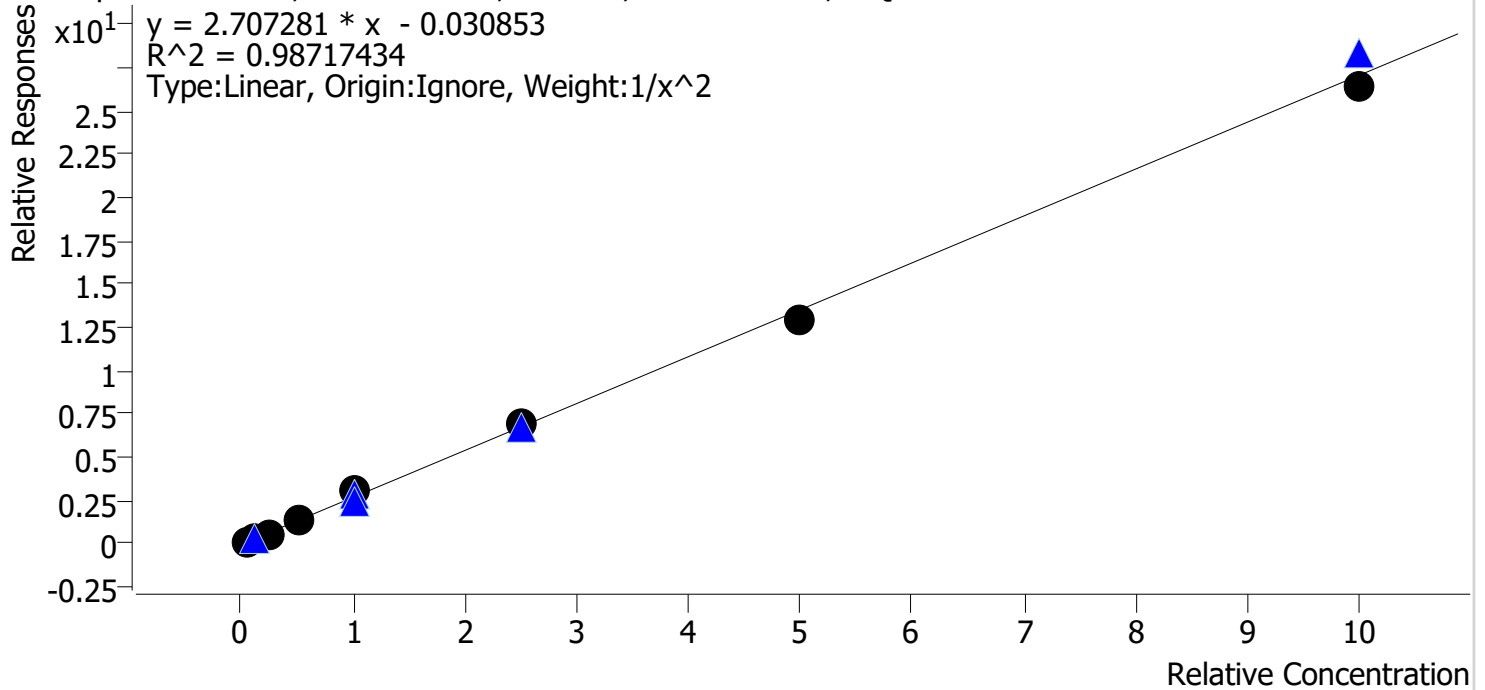


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** **Methadone-D9**

Mirtazapine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



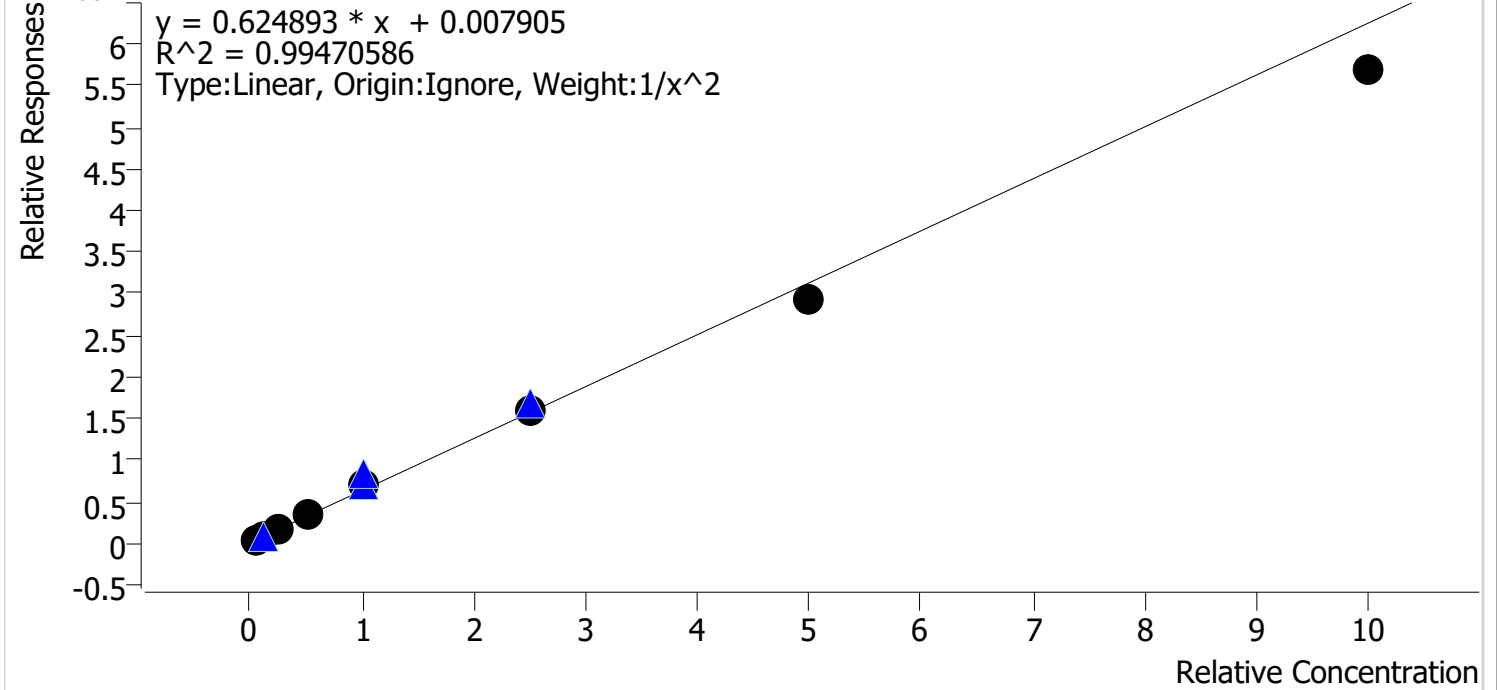
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.3	105.2
cal 2 mdq p1	2	✓	10.0	9.4	93.6
cal 3 mdq p1	3	✓	25.0	20.6	82.5
cal 4 mdq p1	4	✓	50.0	53.4	106.9
cal 5 mdq p1	5	✓	100.0	114.9	114.9
cal 6 mdq p1	6	✓	250.0	259.5	103.8
cal 7 mdq p1	7	✓	500.0	477.7	95.5
cal 8 mdq p1	8	✓	1000.0	975.0	97.5

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Fentanyl-D5

Mitragynine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs

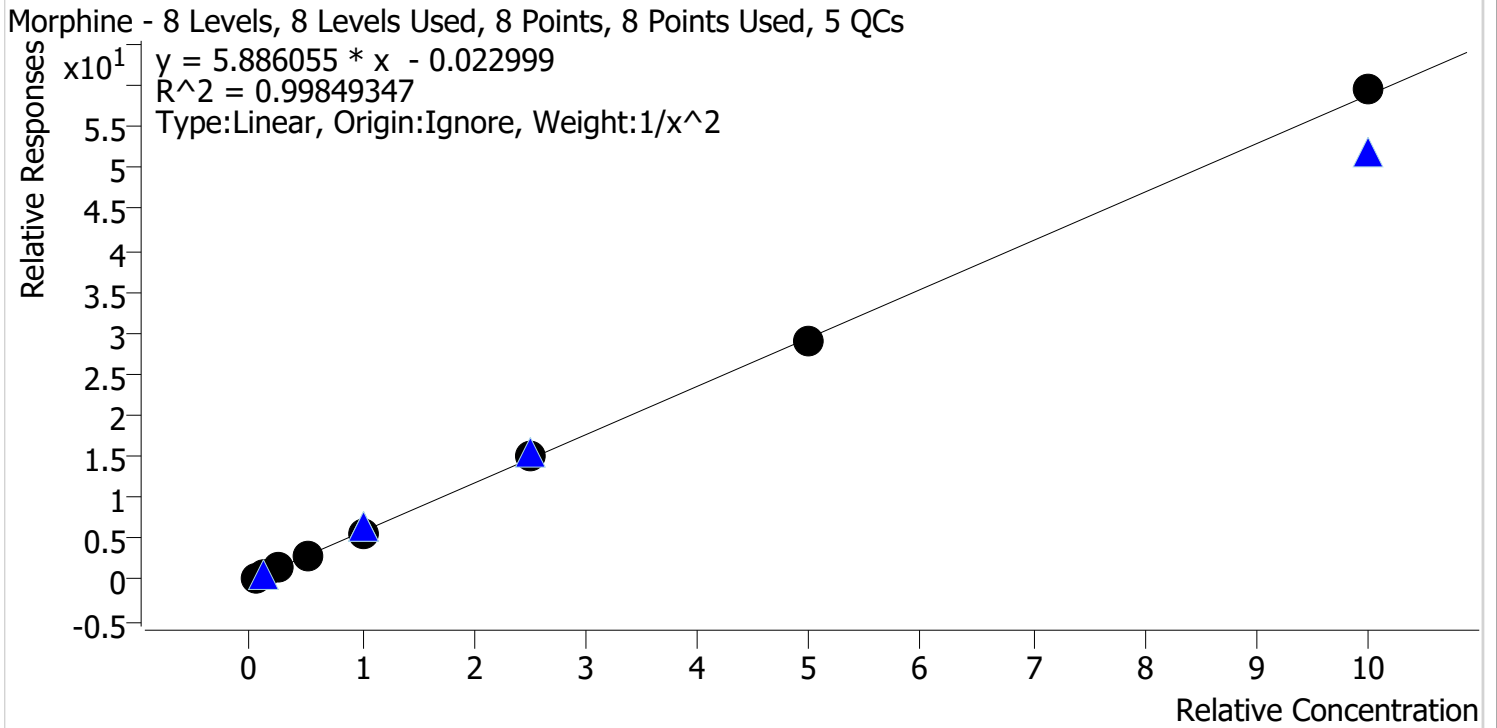


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	100.4
cal 2 mdq p1	2	✓	10.0	9.7	97.0
cal 3 mdq p1	3	✓	25.0	25.0	99.9
cal 4 mdq p1	4	✓	50.0	53.6	107.2
cal 5 mdq p1	5	✓	100.0	109.6	109.6
cal 6 mdq p1	6	✓	250.0	253.6	101.4
cal 7 mdq p1	7	✓	500.0	468.3	93.7
cal 8 mdq p1	8	✓	1000.0	907.8	90.8

# Compound Calibration Report



**Batch results**      D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update**      9/28/2020 8:52 AM  
**Analyst Name**      ISP\datastor  
**Analyte**      Morphine      **Internal Standard**      Morphine-D6



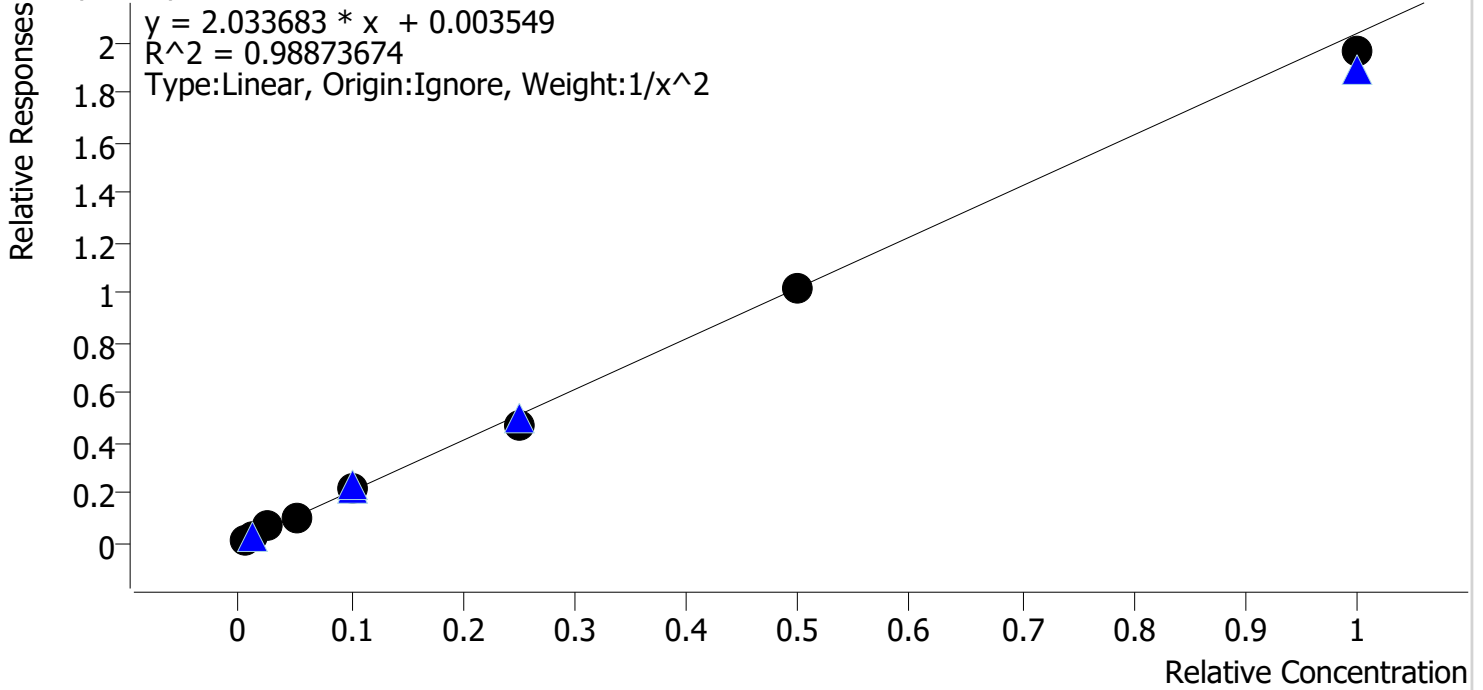
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.1	102.8
cal 2 mdq p1	2	✓	10.0	9.5	94.6
cal 3 mdq p1	3	✓	25.0	24.4	97.4
cal 4 mdq p1	4	✓	50.0	52.2	104.5
cal 5 mdq p1	5	✓	100.0	97.6	97.6
cal 6 mdq p1	6	✓	250.0	257.3	102.9
cal 7 mdq p1	7	✓	500.0	494.6	98.9
cal 8 mdq p1	8	✓	1000.0	1011.6	101.2

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



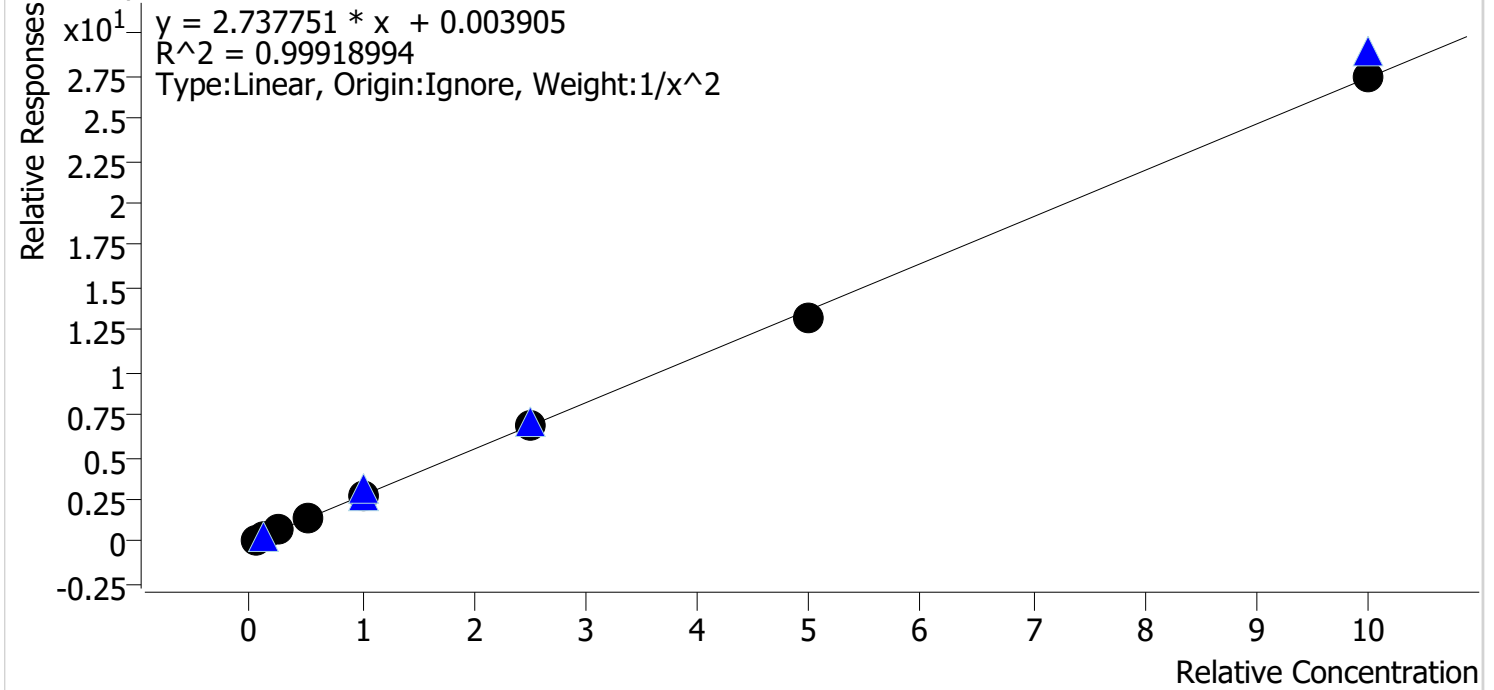
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	0.5	0.5	94.6
cal 2 mdq p1	2	✓	1.0	1.1	106.1
cal 3 mdq p1	3	✓	2.5	2.9	117.1
cal 4 mdq p1	4	✓	5.0	4.4	88.5
cal 5 mdq p1	5	✓	10.0	10.6	105.8
cal 6 mdq p1	6	✓	25.0	23.0	92.0
cal 7 mdq p1	7	✓	50.0	49.8	99.5
cal 8 mdq p1	8	✓	100.0	96.4	96.4

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Nordiazepam	<b>Internal Standard</b>	Nordiazepam-D5

Nordiazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.1	101.0
cal 2 mdq p1	2	✓	10.0	9.8	98.1
cal 3 mdq p1	3	✓	25.0	24.3	97.4
cal 4 mdq p1	4	✓	50.0	51.5	103.0
cal 5 mdq p1	5	✓	100.0	102.5	102.5
cal 6 mdq p1	6	✓	250.0	253.8	101.5
cal 7 mdq p1	7	✓	500.0	481.6	96.3
cal 8 mdq p1	8	✓	1000.0	1000.7	100.1

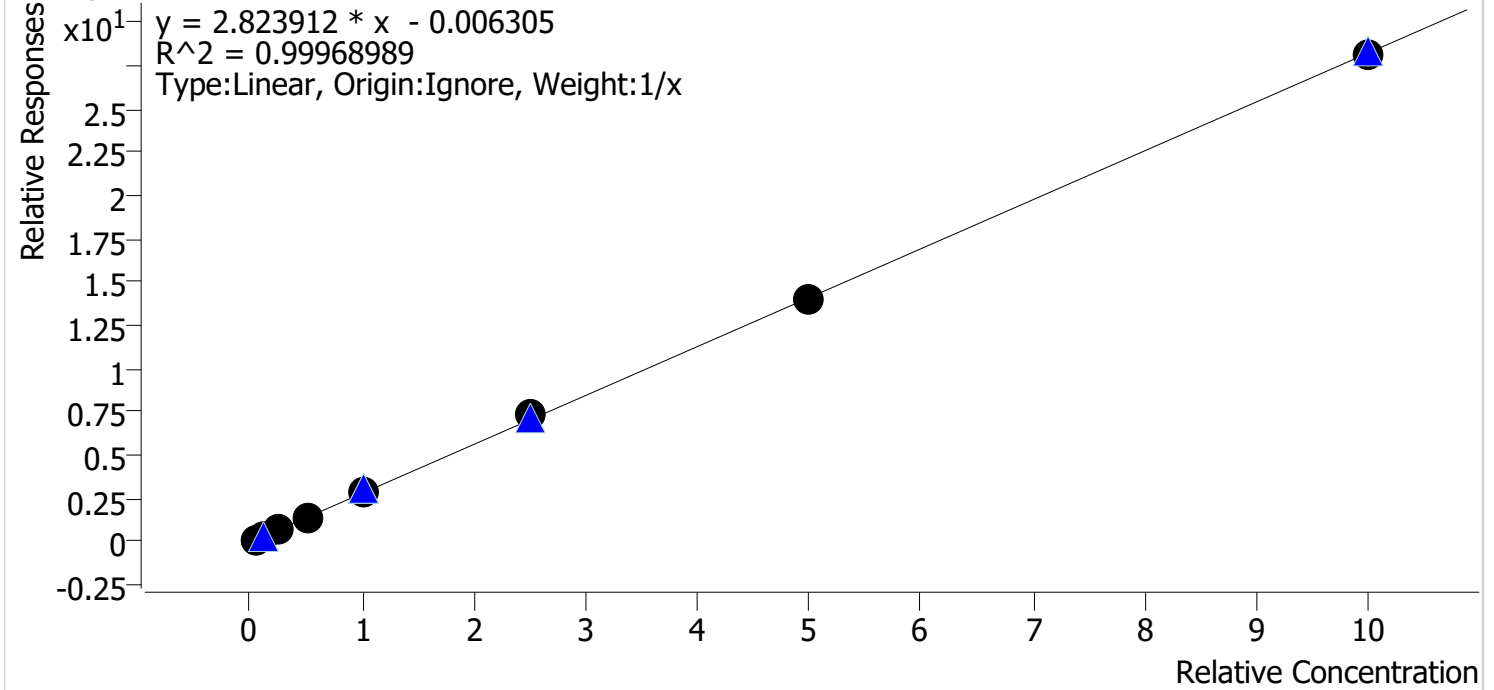


# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Noroxycodone	<b>Internal Standard</b>	Noroxycodone-D3

Noroxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs

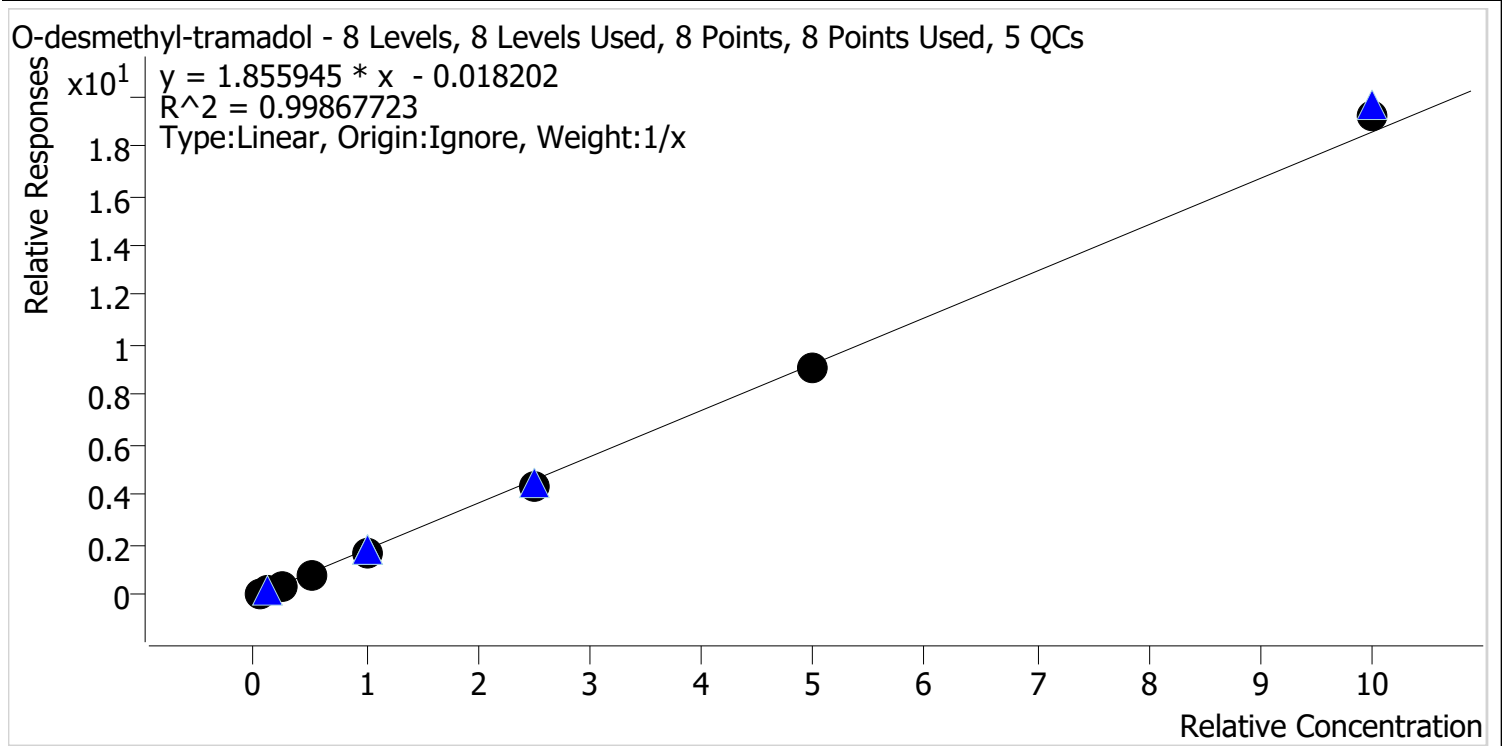


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.1	101.6
cal 2 mdq p1	2	✓	10.0	10.1	100.8
cal 3 mdq p1	3	✓	25.0	24.4	97.6
cal 4 mdq p1	4	✓	50.0	49.2	98.3
cal 5 mdq p1	5	✓	100.0	99.1	99.1
cal 6 mdq p1	6	✓	250.0	260.1	104.0
cal 7 mdq p1	7	✓	500.0	492.8	98.6
cal 8 mdq p1	8	✓	1000.0	999.2	99.9

# Compound Calibration Report



<b>Batch results</b>	D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	9/28/2020 8:52 AM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	O-desmethyl-tramadol	<b>Internal Standard</b>	O-desmethyl-tramadol-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.6	112.9
cal 2 mdq p1	2	✓	10.0	10.4	104.3
cal 3 mdq p1	3	✓	25.0	24.1	96.3
cal 4 mdq p1	4	✓	50.0	48.1	96.3
cal 5 mdq p1	5	✓	100.0	94.4	94.4
cal 6 mdq p1	6	✓	250.0	237.9	95.2
cal 7 mdq p1	7	✓	500.0	488.4	97.7
cal 8 mdq p1	8	✓	1000.0	1031.1	103.1

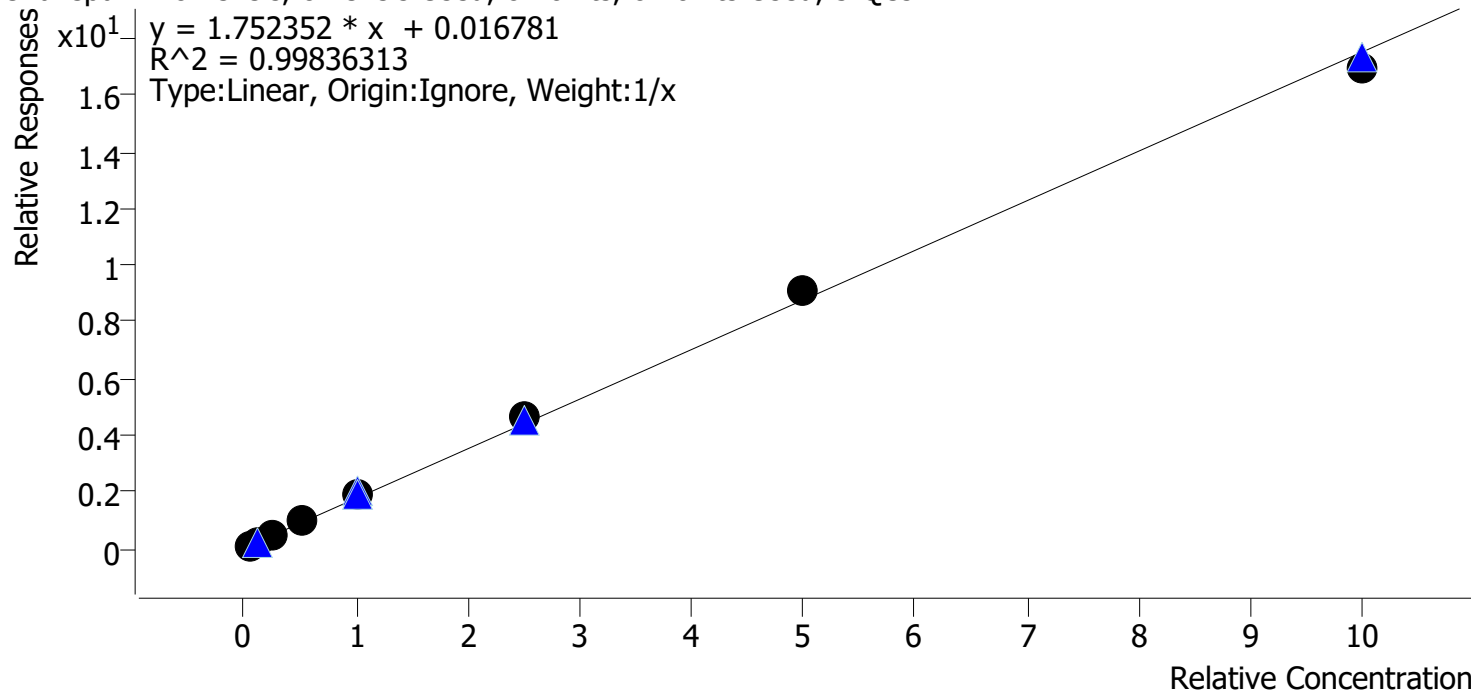


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	4.4	87.9
cal 2 mdq p1	2	✓	10.0	9.7	97.0
cal 3 mdq p1	3	✓	25.0	25.2	100.9
cal 4 mdq p1	4	✓	50.0	52.2	104.5
cal 5 mdq p1	5	✓	100.0	104.9	104.9
cal 6 mdq p1	6	✓	250.0	262.9	105.2
cal 7 mdq p1	7	✓	500.0	516.4	103.3
cal 8 mdq p1	8	✓	1000.0	964.3	96.4



















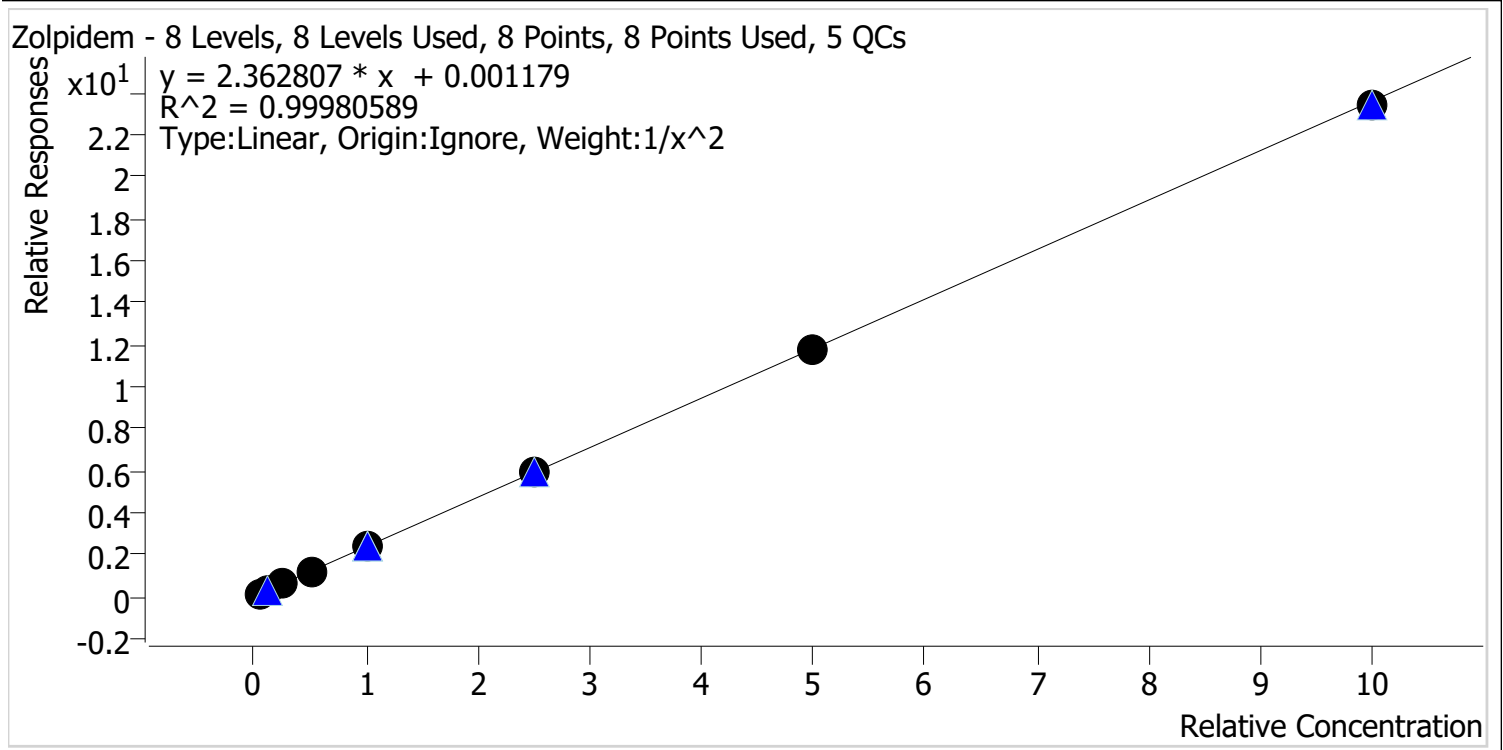




# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	5.0	99.9
cal 2 mdq p1	2	✓	10.0	10.0	99.8
cal 3 mdq p1	3	✓	25.0	25.1	100.5
cal 4 mdq p1	4	✓	50.0	51.3	102.5
cal 5 mdq p1	5	✓	100.0	98.4	98.4
cal 6 mdq p1	6	✓	250.0	250.2	100.1
cal 7 mdq p1	7	✓	500.0	499.1	99.8
cal 8 mdq p1	8	✓	1000.0	990.7	99.1

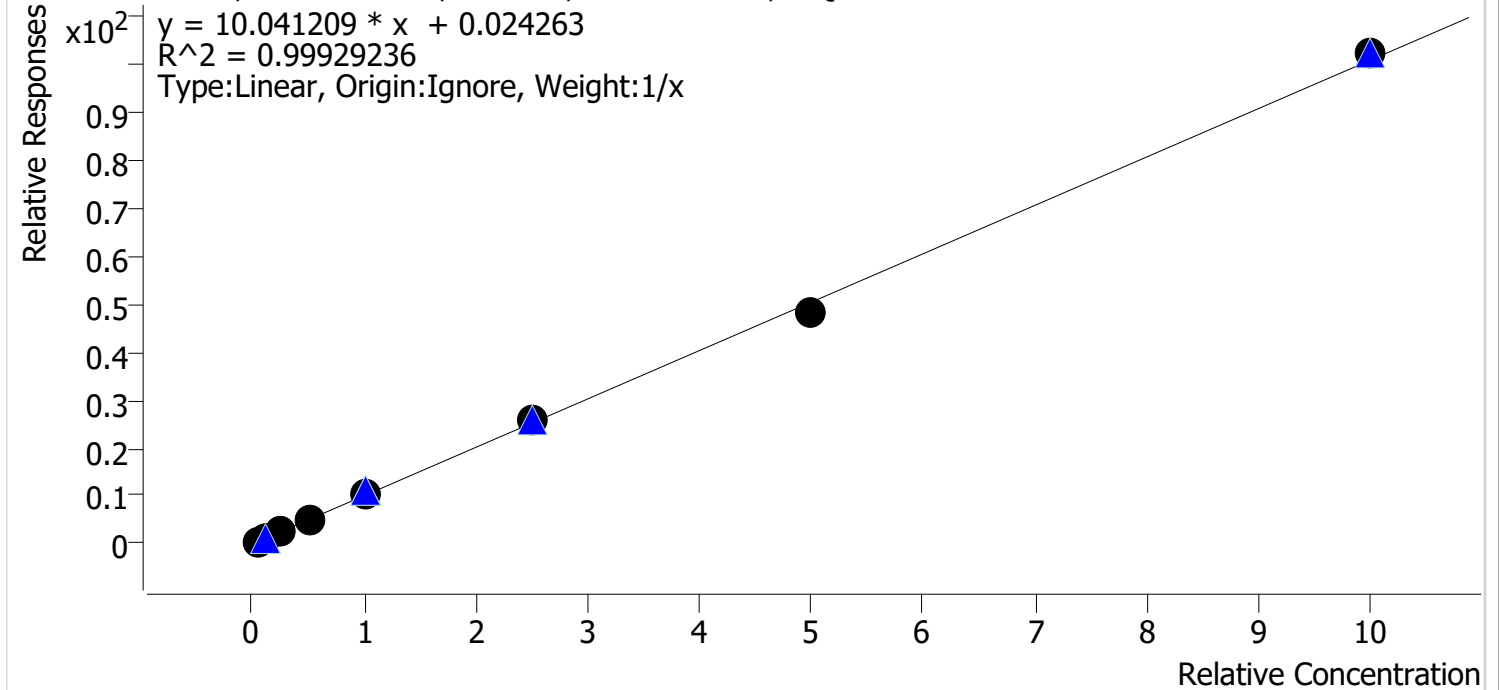


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Last Cal. Update** 9/28/2020 8:52 AM  
**Analyst Name** ISP\datastor  
**Analyte** MDMA **Internal Standard** MDMA-D6

MDMA - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



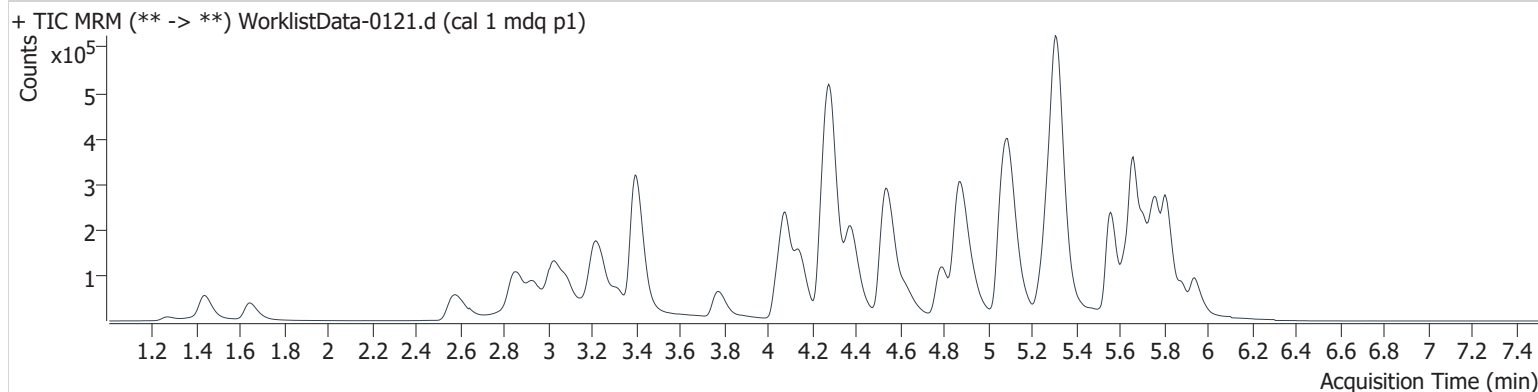
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1 mdq p1	1	✓	5.0	4.8	96.6
cal 2 mdq p1	2	✓	10.0	9.8	97.6
cal 3 mdq p1	3	✓	25.0	25.3	101.1
cal 4 mdq p1	4	✓	50.0	52.0	103.9
cal 5 mdq p1	5	✓	100.0	101.6	101.6
cal 6 mdq p1	6	✓	250.0	255.4	102.2
cal 7 mdq p1	7	✓	500.0	479.1	95.8
cal 8 mdq p1	8	✓	1000.0	1012.1	101.2

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0121.d
<b>Type</b>	Cal	<b>Sample</b>	cal 1 mdq p1
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-A5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 11:02:28 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	1246	1010.0	76.5	1453.1	53529	0.508 ng/ml
7-aminoclonazepam	4.287	26102	1109.8	100.5	82.7	197491	5.030 ng/ml
a-hydroxyalprazolam	5.697	4185	363.9	56.4	193.5	46084	5.023 ng/ml
alpha-PVP	4.382	75829	3176.7	50.4	943.9	614714	5.459 ng/ml
Alprazolam	5.776	27613	983.0	115.3	555.6	207823	5.809 ng/ml
Amphetamine	3.089	87499	312.8	52.2	462.3	257859	4.972 ng/ml
Benzoylcegonine	3.910	1618	95.6	7.4	45.7	10112	5.427 ng/ml
Buprenorphine	5.753	793	29.9	14.7	122.7	56405	0.486 ng/ml
Bupropion	4.806	61906	1782.7	67.4	1652.0	405103	4.963 ng/ml
Carisoprodol	5.726	18232	388.3	66.6	58.5	181141	4.982 ng/ml
Citalopram	5.250	42988	467.4	44.3	21945.8	362804	5.042 ng/ml
Clonazepam	5.620	29945	923.1	28.7	14610.5	89187	4.998 ng/ml
Cocaine	4.286	62335	1485.0	46.3	2949.9	917702	5.191 ng/ml
Codeine	2.619	6353	418.8	120.4	562.2	73517	4.941 ng/ml
Cyclobenzaprine	5.632	47072	3847.8	8.2	804.3	280785	4.516 ng/ml
Dextromethorphan	5.289	32652	2594.0	75.5	9290.9	322636	4.999 ng/ml
Dextrorphan	4.141	16305	1054.0	222.9	967.0	400896	5.029 ng/ml
Diazepam	5.947	20711	370.2	89.2	730.4	207156	4.918 ng/ml
Dihydrocodeine	2.597	18476	707.0	58.5	1312.1	194513	4.960 ng/ml
Diphenhydramine	5.321	144705	2931.5	28.9	883.6	1548074	5.280 ng/ml
Doxylamine	4.553	154046	1606.9	99.6	2569.0	1171892	5.054 ng/ml
EDDP	5.284	31043	3696.4	233.1	3198.3	722295	4.998 ng/ml
Fentanyl	5.110	5147	123.6	72.9	5082.1	424106	0.580 ng/ml
Fluoxetine	5.714	28957	330.5	6.7	1934.7	185141	4.253 ng/ml
Hydrocodone	3.051	30331	358.4	28.7	190.3	315031	4.758 ng/ml
Hydromorphone	1.647	22482	971.2	65.1	383.3	121894	5.164 ng/ml
Ketamine	4.066	52959	1900.1	38.3	155.4	455296	5.004 ng/ml
Lamotrigine	4.314	4254	337.2	88.0	189.9	455296	4.812 ng/ml
Lorazepam	5.754	22591	78.5	44.8	47.6	207823	4.692 ng/ml
MDA	3.231	76892	280.6	27.6	169.4	445227	4.719 ng/ml
MDMA	3.323	47439	684.0	91.0	207.5	93163	4.829 ng/ml
Meprobamate	4.935	16792	638.1	27.5	157.7	124456	4.918 ng/ml
Methadone	5.662	98422	3991.1	48.9	1525.5	828202	5.453 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.252	48947	∞	47.0	∞	207688	5.945 ng/ml
Metoprolol	4.339	9173	674.8	93.2	511.5	455296	4.693 ng/ml
Mirtazapine	4.630	92440	2643.5	47.2	2128.6	828202	5.262 ng/ml
Mitragynine	5.244	16656	9795.5	31.3	5590.3	424106	5.020 ng/ml
Morphine	1.271	3362	562.2	21.2	163.1	12024	5.140 ng/ml
Norbuprenorphine	5.007	124	247.7	116.7	41.1	9427	0.473 ng/ml
Nordiazepam	5.891	18452	937.5	65.8	2598.4	129746	5.052 ng/ml
Norfentanyl	4.101	938	63.1	274.2	108.2	656179	0.500 ng/ml
Noroxycodone	2.948	25359	103.4	37.7	436.6	184816	5.082 ng/ml
O-desmethyl-tramadol	3.404	103156	4825.8	6.8	432.2	1192279	5.643 ng/ml
Oxazepam	5.756	36696	116.1	82.9	186.1	391395	4.393 ng/ml
Oxycodone	2.876	67482	548.8	25.1	541.7	500891	4.891 ng/ml
Oxymorphone	1.439	32063	2775.5	43.0	2479.5	235553	4.792 ng/ml
Phentermine	3.805	8284	46.4	8.8	26.1	252262	5.042 ng/ml
Promethazine	5.559	70318	2293.0	36.9	494.1	648279	5.152 ng/ml
Quetiapine	5.552	33935	42927.3	59.5	2664.9	92535	4.893 ng/ml
Sertraline	5.776	11267	203.4	105.1	7485.9	89520	4.619 ng/ml
Temazepam	5.818	60102	1135.0	28.8	44.1	586962	5.089 ng/ml
Tramadol	4.268	129334	972.6	3.3	39.5	1230925	4.906 ng/ml
Trazodone	5.120	62352	1133.4	76.4	453.2	536886	5.123 ng/ml
Venlafaxine	5.066	77060	4551.8	39.2	410.5	965720	5.794 ng/ml
Zolpidem	4.885	136315	1761.9	31.0	1061.7	1144118	4.993 ng/ml



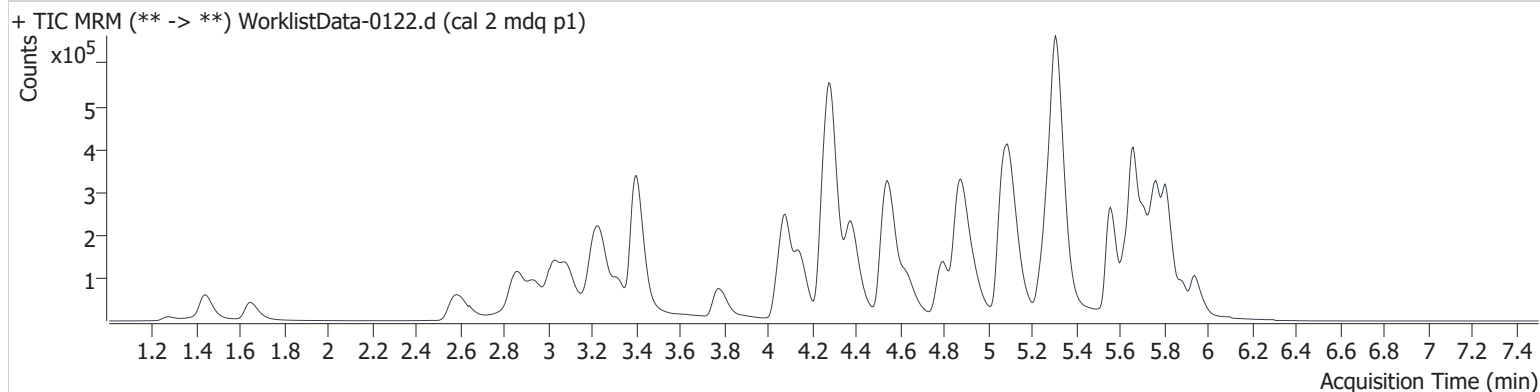


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

**Instrument** 69679 **Data File** WorklistData-0122.d  
**Type** Cal **Sample** cal 2 mdq p1  
**Acq. Method** MDQP1 5-27-20.m **Operator** Anne Nord  
**Sample Position** P2-B5 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 9/26/2020 11:13:18 AM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	2179	2705.6	82.1	1221.6	50463	0.976 ng/ml
7-aminoclonazepam	4.287	49587	1582.4	97.9	2660.7	189758	10.002 ng/ml
a-hydroxyalprazolam	5.702	7682	67.5	66.1	5873.7	43452	9.895 ng/ml
alpha-PVP	4.382	144900	3294.0	49.7	1229.4	596727	10.234 ng/ml
Alprazolam	5.776	52872	1553.6	115.6	850.9	206131	10.206 ng/ml
Amphetamine	3.094	190396	825.0	49.6	664.9	288351	9.908 ng/ml
Benzoylcegonine	3.915	2631	205.2	7.8	134.8	9569	8.871 ng/ml
Buprenorphine	5.748	1470	143.5	17.2	110.8	49511	1.043 ng/ml
Bupropion	4.801	123266	1117.6	65.8	1554.3	400688	10.118 ng/ml
Carisoprodol	5.726	34870	2158.5	68.1	165.6	175642	9.789 ng/ml
Citalopram	5.245	85311	581.0	43.3	57042.1	358250	10.324 ng/ml
Clonazepam	5.625	53721	1584.7	30.4	13675.7	85556	9.707 ng/ml
Cocaine	4.286	117015	3607.5	46.7	8084.1	879018	10.079 ng/ml
Codeine	2.619	12571	335.6	118.2	2193.6	68413	10.265 ng/ml
Cyclobenzaprine	5.632	97636	1657.6	7.4	2739.8	284855	9.934 ng/ml
Dextromethorphan	5.289	63134	11212.6	74.6	52311.7	304861	10.170 ng/ml
Dextrorphan	4.146	29963	4930.4	225.9	3908.6	377710	9.848 ng/ml
Diazepam	5.942	40661	62781.3	86.9	617.3	205922	9.780 ng/ml
Dihydrocodeine	2.597	35115	1825.4	56.2	1477.7	186219	9.854 ng/ml
Diphenhydramine	5.316	286676	497.2	29.4	5517.2	1489432	10.450 ng/ml
Doxylamine	4.553	287865	337.7	97.3	3045.4	1129913	9.851 ng/ml
EDDP	5.284	55125	921.5	217.2	5401.4	639775	10.000 ng/ml
Fentanyl	5.110	9290	219.5	81.7	7889.0	422422	1.041 ng/ml
Fluoxetine	5.709	65606	1106.9	7.8	6439.8	207603	10.212 ng/ml
Hydrocodone	3.051	55435	2339.3	35.1	464.6	306004	9.615 ng/ml
Hydromorphone	1.652	40678	1127.4	65.8	2082.5	112860	10.277 ng/ml
Ketamine	4.066	98992	6489.9	39.4	279.0	443056	9.878 ng/ml
Lamotrigine	4.314	7964	905.7	88.6	240.8	443056	10.459 ng/ml
Lorazepam	5.749	46355	1091.0	46.9	65.9	206131	10.581 ng/ml
MDA	3.236	147306	363.9	25.4	155.6	439172	9.634 ng/ml
MDMA	3.323	93582	386.3	91.9	820.8	93155	9.763 ng/ml
Meprobamate	4.935	31798	1681.7	28.1	208.5	117244	10.223 ng/ml
Methadone	5.662	190196	58806.0	48.3	2330.9	810076	10.408 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	96583	∞	43.4	185.8	333814	8.951 ng/ml
Metoprolol	4.344	18670	718.5	91.9	514.8	443056	10.693 ng/ml
Mirtazapine	4.635	180258	3189.5	46.8	3803.5	810076	9.359 ng/ml
Mitragynine	5.244	28946	47998.2	31.6	13804.0	422422	9.701 ng/ml
Morphine	1.271	5393	788.0	25.5	764.0	10098	9.465 ng/ml
Norbuprenorphine	5.022	225	253.9	86.6	∞	8942	1.061 ng/ml
Nordiazepam	5.891	34690	40725.4	64.1	452.2	127279	9.813 ng/ml
Norfentanyl	4.107	1939	179.8	267.9	124.6	646728	1.035 ng/ml
Noroxycodone	2.948	48680	1039.1	37.2	559.4	174910	10.079 ng/ml
O-desmethyl-tramadol	3.404	200755	7369.8	6.8	363.3	1144755	10.430 ng/ml
Oxazepam	5.761	71205	468.7	85.0	64.2	381186	9.702 ng/ml
Oxycodone	2.871	118163	1150.2	27.5	1604.2	474617	9.496 ng/ml
Oxymorphone	1.439	57640	3773.0	41.9	1240.9	222299	9.662 ng/ml
Phentermine	3.811	20324	97.1	8.6	32.1	295432	9.906 ng/ml
Promethazine	5.554	133570	137290.1	34.7	1180.1	594960	10.553 ng/ml
Quetiapine	5.557	67760	44694.9	59.0	3578.3	91322	10.187 ng/ml
Sertraline	5.776	29445	563.5	108.8	51683.7	112177	10.143 ng/ml
Temazepam	5.818	114085	1553.6	31.2	205.3	575308	9.751 ng/ml
Tramadol	4.268	246944	1458.6	3.4	87.9	1185953	10.168 ng/ml
Trazodone	5.126	123389	1238.5	77.1	1888.2	530288	9.850 ng/ml
Venlafaxine	5.066	145336	518.4	39.7	870.2	935639	10.272 ng/ml
Zolpidem	4.885	264013	4172.0	31.8	2281.1	1114430	9.977 ng/ml

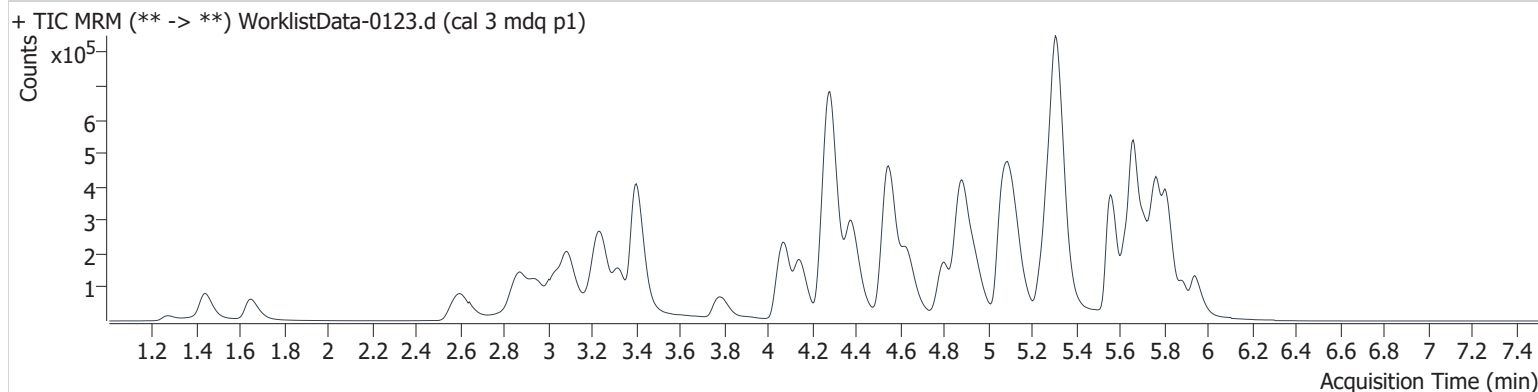


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

**Instrument** 69679 **Data File** WorklistData-0123.d  
**Type** Cal **Sample** cal 3 mdq p1  
**Acq. Method** MDQP1 5-27-20.m **Operator** Anne Nord  
**Sample Position** P2-C5 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 9/26/2020 11:24:06 AM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	5260	109.0	77.2	6322.8	50235	2.425 ng/ml
7-aminoclonazepam	4.287	109360	1903.3	95.4	4310.7	171731	24.459 ng/ml
a-hydroxyalprazolam	5.697	18231	163.7	63.9	9210.5	42190	24.361 ng/ml
alpha-PVP	4.387	323483	7961.6	52.9	2682.4	553463	23.889 ng/ml
Alprazolam	5.776	123562	5827.7	120.1	2230.8	189320	24.293 ng/ml
Amphetamine	3.094	393954	2202.5	48.7	2779.2	237673	25.245 ng/ml
Benzoylcegonine	3.915	6665	231.8	8.0	571.0	9326	22.053 ng/ml
Buprenorphine	5.753	3569	299.2	18.2	1449.4	49085	2.577 ng/ml
Bupropion	4.801	255240	4451.0	66.1	4619.4	334152	25.308 ng/ml
Carisoprodol	5.726	86201	7618.8	67.8	221.0	167124	25.372 ng/ml
Citalopram	5.245	198750	3584.3	42.4	91626.8	353751	24.615 ng/ml
Clonazepam	5.625	129174	5828.5	28.7	61566.7	78917	25.969 ng/ml
Cocaine	4.286	278214	7698.8	47.6	11253.4	854940	24.498 ng/ml
Codeine	2.619	30179	1284.1	116.2	1382.3	66818	24.921 ng/ml
Cyclobenzaprine	5.632	237182	43693.2	7.7	158.8	283330	25.228 ng/ml
Dextromethorphan	5.294	149934	35007.3	80.8	4170.4	306417	23.951 ng/ml
Dextrorphan	4.146	74010	2367.9	223.1	9549.9	370702	24.848 ng/ml
Diazepam	5.942	96064	2316.1	85.9	1214.3	188022	25.413 ng/ml
Dihydrocodeine	2.597	88300	3777.8	54.1	1211.4	175830	26.257 ng/ml
Diphenhydramine	5.316	671850	16520.9	29.2	2110.5	1466377	24.326 ng/ml
Doxylamine	4.548	673948	325.5	98.8	586.6	1060419	24.662 ng/ml
EDDP	5.279	144063	4021.2	220.3	7283.4	653233	25.565 ng/ml
Fentanyl	5.110	21939	201.5	75.2	30292.4	419733	2.455 ng/ml
Fluoxetine	5.714	105929	135381.8	7.5	16344.5	144867	25.715 ng/ml
Hydrocodone	3.056	131935	628.7	35.2	1000.9	293980	24.931 ng/ml
Hydromorphone	1.647	99355	8430.1	70.3	3595.8	110893	25.837 ng/ml
Ketamine	4.066	239327	6894.2	40.0	379.3	425865	25.281 ng/ml
Lamotrigine	4.314	18068	811.7	91.5	3694.0	425865	26.456 ng/ml
Lorazepam	5.749	108064	2810.5	44.0	400.9	189320	28.115 ng/ml
MDA	3.236	341056	876.8	24.0	496.2	406005	24.877 ng/ml
MDMA	3.323	222116	14374.1	90.0	174.3	86722	25.266 ng/ml
Meprobamate	4.935	74266	1731.1	28.6	40.3	114171	24.985 ng/ml
Methadone	5.662	448408	518934.2	47.9	1850.4	786354	24.743 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	117813	2666.0	43.6	140.1	208936	24.327 ng/ml
Metoprolol	4.344	43937	2198.6	91.8	1201.7	425865	27.345 ng/ml
Mirtazapine	4.635	414945	8830.1	44.7	2276.5	786354	20.631 ng/ml
Mitragynine	5.244	68849	53093.5	29.9	24758.9	419733	24.984 ng/ml
Morphine	1.271	14297	2834.9	22.8	1531.0	10133	24.362 ng/ml
Norbuprenorphine	5.017	559	429.5	83.6	402.2	8860	2.927 ng/ml
Nordiazepam	5.891	80103	12479.1	65.8	32269.3	119484	24.345 ng/ml
Norfentanyl	4.107	2560	60.3	288.0	150.7	382559	2.294 ng/ml
Noroxycodone	2.953	111718	451.3	37.7	723.1	163614	24.403 ng/ml
O-desmethyl-tramadol	3.404	479360	21540.5	6.4	3548.1	1118619	24.070 ng/ml
Oxazepam	5.761	162207	936.6	78.4	857.8	353502	25.228 ng/ml
Oxycodone	2.876	296008	5785.1	25.2	1638.6	455236	25.671 ng/ml
Oxymorphone	1.439	140480	3950.4	41.3	881.5	214738	25.277 ng/ml
Phentermine	3.805	43447	178.0	8.8	121.0	251106	24.006 ng/ml
Promethazine	5.559	334096	604302.3	37.3	1417.9	632817	24.678 ng/ml
Quetiapine	5.552	151467	4066.3	59.4	117672.4	83315	25.368 ng/ml
Sertraline	5.776	50321	1941.1	100.7	1127.4	79165	25.229 ng/ml
Temazepam	5.818	263104	5277.1	31.0	580.5	524119	24.513 ng/ml
Tramadol	4.268	594044	27855.1	3.3	203.3	1155049	25.782 ng/ml
Trazodone	5.126	291716	11062.5	77.5	2548.4	515874	23.348 ng/ml
Venlafaxine	5.066	354012	10355.2	40.2	1283.4	920475	23.860 ng/ml
Zolpidem	4.885	614406	4283.2	31.7	8858.5	1033055	25.121 ng/ml

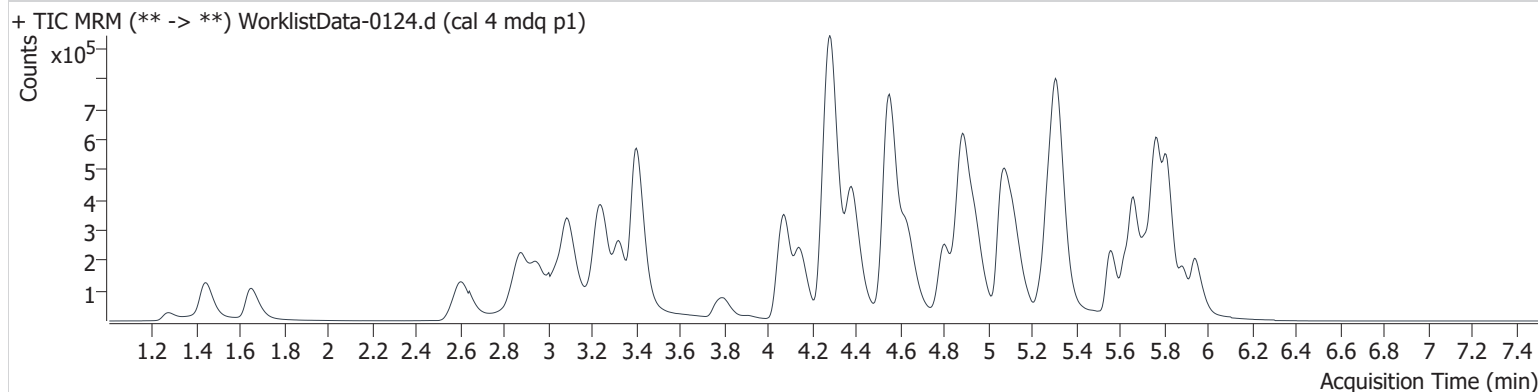


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

**Instrument** 69679 **Data File** WorklistData-0124.d  
**Type** Cal **Sample** cal 4 mdq p1  
**Acq. Method** MDQP1 5-27-20.m **Operator** Anne Nord  
**Sample Position** P2-D5 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 9/26/2020 11:34:53 AM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	11071	1840.0	76.4	231.6	50828	5.087 ng/ml
7-aminoclonazepam	4.287	221800	3791.8	96.5	1265.4	172017	49.585 ng/ml
a-hydroxyalprazolam	5.702	41223	1900.5	61.4	7933.2	44522	52.339 ng/ml
alpha-PVP	4.387	666713	9973.8	50.9	2996.9	552385	48.770 ng/ml
Alprazolam	5.776	260508	2956.6	121.0	3541.3	199352	47.553 ng/ml
Amphetamine	3.094	794889	8188.1	44.0	1498.7	229664	52.981 ng/ml
Benzoylcegonine	3.910	15842	935.0	6.6	268.1	10197	47.196 ng/ml
Buprenorphine	5.753	3869	302.7	16.6	601.4	27654	4.972 ng/ml
Bupropion	4.806	468355	27590.2	67.4	2268.5	311755	49.895 ng/ml
Carisoprodol	5.726	184339	2088.2	64.6	1796.8	177858	50.945 ng/ml
Citalopram	5.250	226044	1762.5	43.0	159314.4	196966	50.477 ng/ml
Clonazepam	5.625	289559	18339.4	29.6	98276.6	87329	53.029 ng/ml
Cocaine	4.286	559396	237721.2	48.2	12938.5	853905	49.219 ng/ml
Codeine	2.619	62543	507.8	117.6	2784.7	69235	49.631 ng/ml
Cyclobenzaprine	5.632	128350	1910.1	8.4	4245.5	73107	53.645 ng/ml
Dextromethorphan	5.294	150157	9070.5	76.7	50801.5	142423	51.539 ng/ml
Dextrorphan	4.146	137428	125536.1	220.5	644.8	337212	50.765 ng/ml
Diazepam	5.942	205494	2764.6	86.1	133042.3	200688	51.000 ng/ml
Dihydrocodeine	2.597	187241	15784.4	55.4	4075.3	186403	52.529 ng/ml
Diphenhydramine	5.316	855454	48078.1	29.0	8988.0	892391	50.460 ng/ml
Doxylamine	4.553	1397965	15273.3	98.8	1815.2	1086958	49.968 ng/ml
EDDP	5.284	256043	14568.1	225.1	2138.9	610107	48.630 ng/ml
Fentanyl	5.110	16040	363.9	75.8	15259.7	157802	4.760 ng/ml
Fluoxetine	5.714	62497	2676.0	7.9	6784.1	40895	55.474 ng/ml
Hydrocodone	3.056	281007	1255.4	32.9	1139.3	298603	53.103 ng/ml
Hydromorphone	1.652	199481	8750.0	70.5	7265.2	123001	46.924 ng/ml
Ketamine	4.066	498309	3717.8	38.6	1781.6	438773	51.383 ng/ml
Lamotrigine	4.314	36062	1021.4	89.3	1382.1	438773	52.471 ng/ml
Lorazepam	5.749	215881	919.3	45.6	384.8	199352	54.073 ng/ml
MDA	3.236	652803	9638.0	24.8	1860.1	384338	50.810 ng/ml
MDMA	3.323	439948	23015.7	89.7	12861.7	83910	51.974 ng/ml
Meprobamate	4.935	161399	1125.1	27.4	1399.3	118568	52.649 ng/ml
Methadone	5.662	451651	5239.6	50.0	7323.3	407724	47.713 ng/ml



# AM #28 Multi-Drug Quant. Results

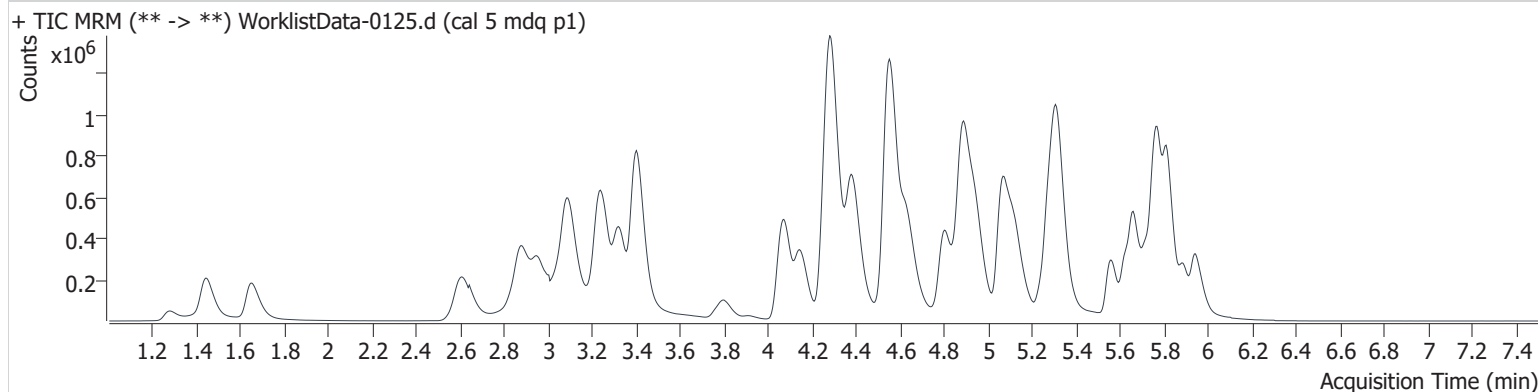
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	187394	482.4	41.0	121.4	187036	48.861 ng/ml
Metoprolol	4.344	89119	2761.0	89.8	5793.8	438773	54.612 ng/ml
Mirtazapine	4.635	577180	61188.4	46.6	11086.2	407724	53.429 ng/ml
Mitragynine	5.244	54082	1188.5	31.6	516.2	157802	53.580 ng/ml
Morphine	1.271	31351	883.8	22.0	298.8	10274	52.233 ng/ml
Norbuprenorphine	5.027	522	233.8	92.4	422.3	5584	4.426 ng/ml
Nordiazepam	5.891	175170	226456.4	64.0	7936.1	123878	51.508 ng/ml
Norfentanyl	4.107	7691	398.9	269.3	212.9	530224	4.958 ng/ml
Noroxycodone	2.953	244179	9191.1	37.9	1045.2	176697	49.159 ng/ml
O-desmethyl-tramadol	3.404	1021913	5736.8	6.4	4654.7	1167799	48.131 ng/ml
Oxazepam	5.756	339902	1634.9	77.3	461.4	364635	52.238 ng/ml
Oxycodone	2.876	615443	2682.9	25.9	2623.7	478671	51.288 ng/ml
Oxymorphone	1.439	291371	5371.2	41.7	4780.7	222141	51.274 ng/ml
Phentermine	3.811	87917	282.3	8.8	330.8	231355	52.007 ng/ml
Promethazine	5.559	188266	1654.4	37.5	523.8	175918	49.918 ng/ml
Quetiapine	5.557	220385	141859.4	58.1	164282.2	58053	53.277 ng/ml
Sertraline	5.781	34520	603.0	102.8	25698.7	25855	53.507 ng/ml
Temazepam	5.818	559121	2748.6	30.9	916.7	551202	49.418 ng/ml
Tramadol	4.268	1212463	7323.7	3.4	208.2	1184432	51.766 ng/ml
Trazodone	5.126	333924	4145.6	76.3	128205.5	280102	48.765 ng/ml
Venlafaxine	5.066	719741	56553.2	40.1	6693.4	922593	47.304 ng/ml
Zolpidem	4.885	1298454	10589.9	28.4	2128.1	1070891	51.266 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0125.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5 mdq p1
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-E5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 11:45:41 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	20995	1523.5	74.3	13556.0	49667	9.911 ng/ml
7-aminoclonazepam	4.292	435882	7373.8	96.2	1581.4	168908	99.296 ng/ml
a-hydroxyalprazolam	5.702	76941	2091.0	62.9	969.6	41942	103.815 ng/ml
alpha-PVP	4.387	1316896	12103.6	51.2	12470.2	544314	97.229 ng/ml
Alprazolam	5.776	499157	405.9	118.4	9266.8	192758	93.169 ng/ml
Amphetamine	3.094	1529968	6305.3	46.7	23251.4	223031	105.250 ng/ml
Benzoylcegonine	3.915	31197	568.2	8.4	402.2	9655	97.482 ng/ml
Buprenorphine	5.758	5805	2450.3	14.4	1660.7	20323	10.165 ng/ml
Bupropion	4.806	947599	25335.1	65.9	9254.6	320763	98.235 ng/ml
Carisoprodol	5.726	346165	10653.6	65.7	4211.8	169008	100.641 ng/ml
Citalopram	5.250	351265	3704.8	43.1	863.1	160866	96.213 ng/ml
Clonazepam	5.625	565804	53393.9	30.1	160679.7	88476	102.661 ng/ml
Cocaine	4.286	1069283	1864.2	47.2	108099.3	808494	99.267 ng/ml
Codeine	2.624	121921	95.7	115.0	1860.8	66921	99.878 ng/ml
Cyclobenzaprine	5.632	140236	4609.3	7.0	3999.8	42544	101.307 ng/ml
Dextromethorphan	5.289	202673	500.3	80.5	12148.2	107406	92.199 ng/ml
Dextrorphan	4.146	254172	108383.3	222.5	2023.3	319755	99.054 ng/ml
Diazepam	5.942	397158	4777.9	87.8	3011.8	197635	100.156 ng/ml
Dihydrocodeine	2.597	358310	17619.7	56.1	7902.5	184843	101.377 ng/ml
Diphenhydramine	5.316	1364871	36444.0	28.9	9083.0	754823	94.828 ng/ml
Doxylamine	4.553	2707471	150783.0	98.9	1399.7	1067536	98.593 ng/ml
EDDP	5.284	474595	10687.0	218.7	1346.5	564043	97.482 ng/ml
Fentanyl	5.110	19444	252.2	78.4	14916.5	105470	8.623 ng/ml
Fluoxetine	5.714	66762	2350.7	7.0	6421.5	24477	100.253 ng/ml
Hydrocodone	3.056	535179	2034.6	34.2	1071.6	294961	103.081 ng/ml
Hydromorphone	1.652	383028	5356.3	71.8	2163.6	116853	95.039 ng/ml
Ketamine	4.066	960742	25990.5	39.9	2527.3	432684	100.735 ng/ml
Lamotrigine	4.314	67731	3199.5	92.2	4297.9	432684	101.114 ng/ml
Lorazepam	5.749	404381	2634.8	45.4	2529.1	192758	105.520 ng/ml
MDA	3.231	1270128	1013.7	24.8	108.1	366960	104.058 ng/ml
MDMA	3.323	832689	15332.7	89.2	17958.2	81437	101.588 ng/ml
Meprobamate	4.935	300432	787.8	27.5	113.1	115404	100.995 ng/ml
Methadone	5.662	694927	27524.5	48.4	16296.9	311836	95.609 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	310940	349.9	42.8	280.7	166992	97.032 ng/ml
Metoprolol	4.344	164708	79912.9	92.8	19326.1	432684	103.056 ng/ml
Mirtazapine	4.635	960770	70682.4	45.5	4923.0	311836	114.944 ng/ml
Mitragynine	5.244	73096	2734.7	30.1	2198.8	105470	109.643 ng/ml
Morphine	1.276	59028	2428.4	23.3	904.4	10313	97.634 ng/ml
Norbuprenorphine	5.022	845	873.2	83.4	858.1	3864	10.578 ng/ml
Nordiazepam	5.891	335542	7969.0	62.1	4585.2	119366	102.534 ng/ml
Norfentanyl	4.107	14918	2615.1	276.5	472.0	525799	9.685 ng/ml
Noroxycodone	2.953	471814	9589.4	37.1	2090.1	168966	99.106 ng/ml
O-desmethyl-tramadol	3.404	1988649	4270.6	6.5	7161.5	1147437	94.363 ng/ml
Oxazepam	5.756	631976	9111.3	72.5	7134.8	340791	104.868 ng/ml
Oxycodone	2.876	1208414	5086.7	26.7	11745.3	476885	101.606 ng/ml
Oxymorphone	1.444	566765	4299.5	41.8	5374.2	220933	100.845 ng/ml
Phentermine	3.805	160906	326.6	8.0	303.0	218826	100.073 ng/ml
Promethazine	5.559	205062	2601.6	37.7	483.4	99414	96.117 ng/ml
Quetiapine	5.552	403686	354169.9	59.5	222104.9	53400	106.371 ng/ml
Sertraline	5.776	30963	698.2	104.4	21966.7	12351	100.881 ng/ml
Temazepam	5.818	1105475	31484.8	29.9	1064.6	544262	98.842 ng/ml
Tramadol	4.268	2260358	119394.2	3.5	381.4	1130652	101.529 ng/ml
Trazodone	5.126	583595	5108.7	78.4	5378.8	246395	96.478 ng/ml
Venlafaxine	5.066	1382653	67559.8	39.6	11569.3	886992	93.458 ng/ml
Zolpidem	4.885	2441211	18239.8	31.6	7700.4	1049591	98.387 ng/ml

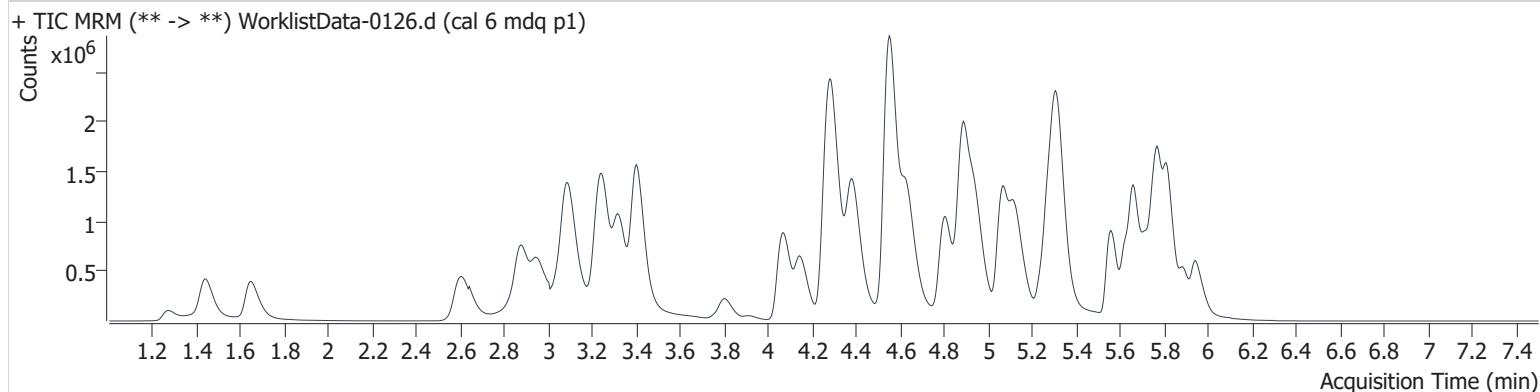


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0126.d
<b>Type</b>	Cal	<b>Sample</b>	cal 6 mdq p1
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-F5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 11:56:29 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	50704	2529.6	77.8	3688.7	46065	25.869 ng/ml
7-aminoclonazepam	4.287	883380	21956.3	92.6	14465.8	140630	241.788 ng/ml
a-hydroxyalprazolam	5.702	150123	1191.8	66.6	1175.1	35118	242.083 ng/ml
alpha-PVP	4.387	3132417	15103.4	51.2	8015.3	515956	243.188 ng/ml
Alprazolam	5.776	1064559	15121.9	118.0	13844.2	161142	236.006 ng/ml
Amphetamine	3.089	3951350	48106.4	47.2	29005.0	235296	258.012 ng/ml
Benzoylcegonine	3.915	80299	1796.5	7.9	205.1	9526	253.290 ng/ml
Buprenorphine	5.753	16315	1089.2	17.4	1615.3	24161	24.049 ng/ml
Bupropion	4.806	2505636	50593.2	66.0	28076.2	337483	247.072 ng/ml
Carisoprodol	5.726	731176	7403.0	63.6	4359.6	145211	247.355 ng/ml
Citalopram	5.245	999648	1574.7	42.9	43144.2	179166	246.134 ng/ml
Clonazepam	5.620	1174453	2481.4	29.9	444021.3	73391	257.514 ng/ml
Cocaine	4.286	2364274	98744.7	46.7	70264.2	711866	249.133 ng/ml
Codeine	2.619	278955	2135.4	121.2	8268.8	61429	248.633 ng/ml
Cyclobenzaprine	5.632	752415	751717.9	8.2	8189.7	91444	253.888 ng/ml
Dextromethorphan	5.289	656429	86270.4	75.2	5615.3	122490	261.738 ng/ml
Dextrorphan	4.146	606983	2527.4	219.0	177713.9	297992	253.889 ng/ml
Diazepam	5.947	872556	4277.4	86.9	5642.8	173438	250.844 ng/ml
Dihydrocodeine	2.592	846071	16118.5	57.0	11019.4	175898	251.564 ng/ml
Diphenhydramine	5.316	3819953	21643.1	29.9	73237.9	840798	237.661 ng/ml
Doxylamine	4.548	6601599	2815.3	98.2	65933.0	1034449	248.177 ng/ml
EDDP	5.284	1186121	78298.1	222.2	3983.0	560930	244.951 ng/ml
Fentanyl	5.116	83091	878.6	75.8	2632.0	157696	24.620 ng/ml
Fluoxetine	5.709	434288	147574.3	7.5	31292.4	64742	248.879 ng/ml
Hydrocodone	3.051	1178995	1013.9	36.0	914.4	272147	247.168 ng/ml
Hydromorphone	1.647	1012729	6757.8	69.6	15229.2	118468	248.172 ng/ml
Ketamine	4.066	2259581	11569.0	39.9	7894.5	408863	251.151 ng/ml
Lamotrigine	4.319	137178	2683.3	95.8	3964.0	408863	218.211 ng/ml
Lorazepam	5.749	746041	13633.9	44.1	1682.0	161142	233.856 ng/ml
MDA	3.231	3046896	22219.6	24.7	891.5	352015	260.969 ng/ml
MDMA	3.323	2023377	152623.0	88.0	16598.5	78830	255.383 ng/ml
Meprobamate	4.935	642337	42558.5	27.5	23388.3	99665	250.524 ng/ml
Methadone	5.662	2197300	1913.8	46.9	52079.7	392577	239.567 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	1135624	∞	42.4	1345.5	250415	246.737 ng/ml
Metoprolol	4.344	359012	1419.5	90.1	249921.9	408863	238.768 ng/ml
Mirtazapine	4.635	2745948	110264.2	46.6	10126.0	392577	259.505 ng/ml
Mitragynine	5.244	251119	2599.7	30.3	39948.1	157696	253.567 ng/ml
Morphine	1.271	147000	5300.8	24.2	1650.3	9722	257.276 ng/ml
Norbuprenorphine	5.017	2261	106.0	98.5	3898.5	4795	23.008 ng/ml
Nordiazepam	5.891	713016	920283.3	64.0	572613.5	102571	253.768 ng/ml
Norfentanyl	4.107	36603	175.1	277.9	1617.1	500293	24.955 ng/ml
Noroxycodone	2.953	1102598	6290.3	37.4	14737.6	150247	260.096 ng/ml
O-desmethyl-tramadol	3.405	4755074	283383.0	6.6	20620.2	1081374	237.909 ng/ml
Oxazepam	5.761	1229252	7075.3	78.5	5529.9	265847	262.911 ng/ml
Oxycodone	2.871	2782798	5142.3	28.5	26011.3	442054	253.221 ng/ml
Oxymorphone	1.439	1398008	6115.8	40.7	16950.9	214172	257.514 ng/ml
Phentermine	3.805	496888	1577.8	7.7	1098.8	265347	253.924 ng/ml
Promethazine	5.559	1047379	15614.2	38.3	4788.4	200605	243.131 ng/ml
Quetiapine	5.552	1049144	939567.5	60.5	8426.0	57941	255.175 ng/ml
Sertraline	5.781	214390	9056.0	102.9	245002.9	34948	247.545 ng/ml
Temazepam	5.818	2366312	13800.0	30.7	4274.2	461968	249.094 ng/ml
Tramadol	4.262	5276652	234684.6	3.4	1916.2	1046472	256.769 ng/ml
Trazodone	5.126	1807767	330861.1	76.4	5463.7	298135	246.346 ng/ml
Venlafaxine	5.066	3331502	120835.7	39.5	34542.6	819315	242.074 ng/ml
Zolpidem	4.885	5742352	18111.5	31.0	10536.0	970994	250.241 ng/ml

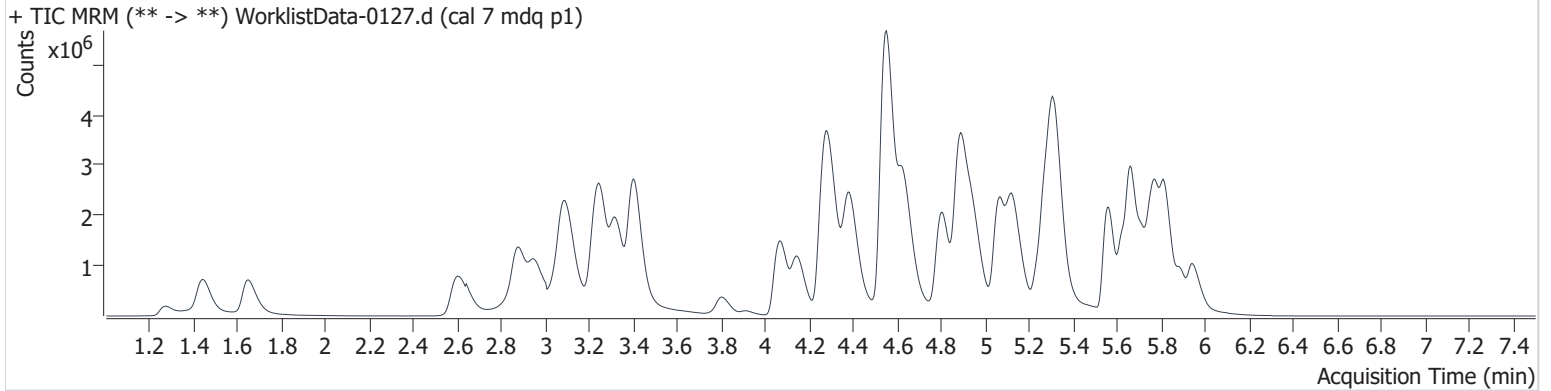
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** MDQP1 5-27-20.m  
**Sample Position** P2-G5  
**Injection Volume** 2  
**Acq. Date-Time** 9/26/2020 12:07:17 PM  
**Sample Info.**

**Data File** WorklistData-0127.d  
**Sample** cal 7 mdq p1  
**Operator** Anne Nord  
**Comment**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	100330	4160.6	77.0	11753.6	47513	49.666 ng/ml
7-aminoclonazepam	4.292	1319456	2110.5	93.2	2885.3	107105	474.241 ng/ml
a-hydroxyalprazolam	5.702	233801	3019.8	65.3	1169.3	26583	498.205 ng/ml
alpha-PVP	4.388	5905889	56218.1	50.8	46839.3	474904	497.588 ng/ml
Alprazolam	5.776	1814283	6073.4	118.5	1968.0	130334	496.087 ng/ml
Amphetamine	3.094	6775730	4791.8	48.2	31661.1	221233	470.762 ng/ml
Benzoylcegonine	3.915	176951	6234.8	7.8	1694.2	10359	512.663 ng/ml
Buprenorphine	5.758	38166	1366.0	16.6	10426.2	27414	49.597 ng/ml
Bupropion	4.805	5152039	711383.8	65.2	32804.6	329752	520.072 ng/ml
Carisoprodol	5.726	1164529	10950.3	62.6	2353.9	115747	494.204 ng/ml
Citalopram	5.245	2170580	16526.3	42.9	111067.5	187413	511.129 ng/ml
Clonazepam	5.620	1856860	337554.4	30.1	552334.8	61790	483.944 ng/ml
Cocaine	4.286	4082158	277518.8	46.5	239432.0	614917	497.874 ng/ml
Codeine	2.619	544741	1503.5	114.3	7521.6	58754	507.411 ng/ml
Cyclobenzaprine	5.632	2123594	6643.8	8.3	4081.4	130900	501.228 ng/ml
Dextromethorphan	5.284	1365908	3112530.2	78.1	1365.8	139860	476.943 ng/ml
Dextrorphan	4.146	1212589	272247.9	223.1	353791.7	303908	497.369 ng/ml
Diazepam	5.947	1690999	34624.0	86.2	62776.1	168954	499.100 ng/ml
Dihydrocodeine	2.592	1615055	34496.9	57.9	4161.4	172145	490.682 ng/ml
Diphenhydramine	5.316	8348255	4624.8	29.6	23945.4	871313	500.760 ng/ml
Doxylamine	4.548	13603425	740342.9	97.9	650656.1	1047707	504.989 ng/ml
EDDP	5.279	2507559	124008.3	219.1	375028.9	580099	500.714 ng/ml
Fentanyl	5.110	224618	4277.8	73.7	7244.0	210663	49.806 ng/ml
Fluoxetine	5.714	1234647	55225.9	7.8	68969.9	92492	496.829 ng/ml
Hydrocodone	3.051	2284097	2565.2	34.8	3130.2	255478	510.887 ng/ml
Hydromorphone	1.647	1939994	9577.4	65.6	115786.9	109242	515.761 ng/ml
Ketamine	4.066	4282363	75619.2	39.6	13048.3	392926	495.567 ng/ml
Lamotrigine	4.319	218123	2546.0	91.2	54426.9	392926	361.896 ng/ml
Lorazepam	5.749	1039481	8599.5	46.2	4146.2	130334	403.448 ng/ml
MDA	3.231	5480210	42188.9	24.6	13369.9	322917	512.158 ng/ml
MDMA	3.323	3860079	92978.4	86.9	60564.5	80199	479.097 ng/ml
Meprobamate	4.930	1036694	14780.4	27.7	25458.0	81971	491.932 ng/ml
Methadone	5.662	5496696	9018.8	45.6	3423.2	476033	493.831 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.257	2342189	∞	44.2	∞	258539	500.134 ng/ml
Metoprolol	4.344	591997	106514.7	93.9	46759.2	392926	410.265 ng/ml
Mirtazapine	4.630	6141097	30321.8	45.6	8430.3	476033	477.654 ng/ml
Mitragynine	5.239	618110	15973.3	31.6	3748.5	210663	468.273 ng/ml
Morphine	1.271	283548	2512.0	24.5	10921.6	9747	494.634 ng/ml
Norbuprenorphine	5.012	5478	3566.4	99.0	4218.4	5395	49.753 ng/ml
Nordiazepam	5.891	1303303	12670.4	64.3	16728.7	98814	481.621 ng/ml
Norfentanyl	4.107	79510	6399.8	270.6	3163.8	531420	51.020 ng/ml
Noroxycodone	2.953	2012085	4445.0	39.7	∞	144638	492.843 ng/ml
O-desmethyl-tramadol	3.404	9431322	678493.9	6.5	8163.6	1042631	488.371 ng/ml
Oxazepam	5.756	1932584	20666.0	76.2	12934.7	213174	516.389 ng/ml
Oxycodone	2.871	5636494	23695.7	26.6	8614.8	456721	496.942 ng/ml
Oxymorphone	1.439	2659453	48276.2	41.6	26119.8	206072	509.706 ng/ml
Phentermine	3.805	948324	1919.0	7.4	1612.8	255342	503.021 ng/ml
Promethazine	5.559	3176625	1032798.6	37.5	16609.5	305208	484.571 ng/ml
Quetiapine	5.557	2187462	126498.7	62.6	1819617.6	64729	476.488 ng/ml
Sertraline	5.781	579357	117984.2	100.6	48912.3	48198	485.496 ng/ml
Temazepam	5.818	4446473	85680.5	30.5	1945.2	426951	506.340 ng/ml
Tramadol	4.262	9320217	753413.7	3.4	4946.5	979675	484.860 ng/ml
Trazodone	5.126	4252181	18015.7	78.5	5551.8	340367	507.114 ng/ml
Venlafaxine	5.065	6553115	136464.4	38.7	44994.9	789049	493.318 ng/ml
Zolpidem	4.885	11244598	20540.7	29.9	35591.3	953495	499.061 ng/ml

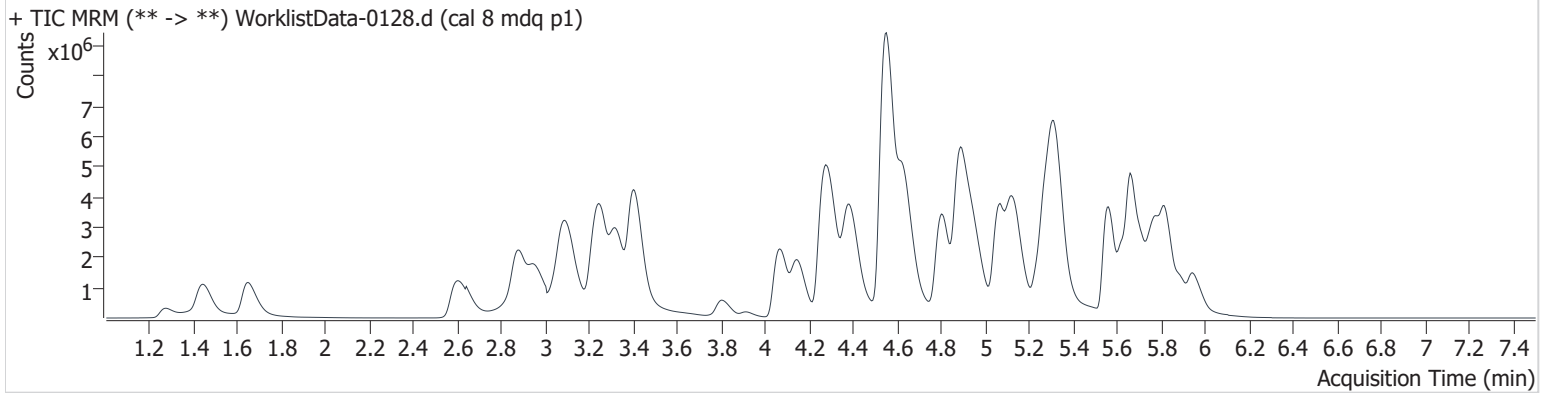
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020 Data\am 27-28 092520\QuantResults\mdq.batch.bin  
**Calibration Last Update** 9/28/2020 8:52:54 AM

<b>Instrument</b>	69679	<b>Data File</b>	WorklistData-0128.d
<b>Type</b>	Cal	<b>Sample</b>	cal 8 mdq p1
<b>Acq. Method</b>	MDQP1 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-H5	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	9/26/2020 12:18:05 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.166	182163	2902.1	76.7	16207.5	42814	100.112 ng/ml
7-aminoclonazepam	4.297	1626745	35739.5	85.8	4292.3	56161	1115.136 ng/ml
a-hydroxyalprazolam	5.697	303749	3803.5	65.1	1119.7	17526	981.875 ng/ml
alpha-PVP	4.388	9761844	425639.2	51.7	80808.9	385127	1013.642 ng/ml
Alprazolam	5.781	2651817	329.9	117.2	44390.7	91927	1026.876 ng/ml
Amphetamine	3.094	9909768	124941.8	47.6	11999.0	165732	919.312 ng/ml
Benzoylcegonine	3.915	385647	15657.4	7.7	32809.2	9735	1188.099 ng/ml
Buprenorphine	5.753	65622	29636.3	15.4	3736.7	23660	98.824 ng/ml
Bupropion	4.801	8749229	70029.5	63.5	36942.0	298882	974.520 ng/ml
Carisoprodol	5.726	1479962	2904.6	61.0	4906.4	72209	1006.712 ng/ml
Citalopram	5.240	3303143	64034.7	44.3	281009.6	146376	996.066 ng/ml
Clonazepam	5.620	2383953	90446.1	30.1	1460311.4	42405	905.701 ng/ml
Cocaine	4.286	6281142	3171.2	46.7	139560.3	468800	1004.740 ng/ml
Codeine	2.624	882171	3248.7	112.7	12456.7	48872	987.684 ng/ml
Cyclobenzaprine	5.627	3360945	48085.7	8.5	6859.9	104932	990.253 ng/ml
Dextromethorphan	5.284	2209219	61991.6	74.1	356830.0	100683	1071.493 ng/ml
Dextrorphan	4.146	2126572	41171.7	223.7	329622.0	265310	999.197 ng/ml
Diazepam	5.947	2727426	46979.7	86.4	7098.1	136183	998.789 ng/ml
Dihydrocodeine	2.592	2769987	34636.3	58.0	12706.1	157406	920.383 ng/ml
Diphenhydramine	5.321	13806709	620749.5	29.3	20352.6	709788	1016.234 ng/ml
Doxylamine	4.548	23874675	6592.0	97.8	39482.7	901903	1029.619 ng/ml
EDDP	5.279	4379190	49688.6	224.6	269815.0	483510	1049.108 ng/ml
Fentanyl	5.110	391780	5666.6	77.5	7266.7	179193	102.115 ng/ml
Fluoxetine	5.714	1741237	275198.5	8.0	150945.3	65017	998.384 ng/ml
Hydrocodone	3.046	3870724	4699.4	35.0	916.1	224381	986.457 ng/ml
Hydromorphone	1.647	3428255	68211.8	70.0	36396.6	100303	992.825 ng/ml
Ketamine	4.066	7284165	66655.0	39.4	12303.7	341772	969.383 ng/ml
Lamotrigine	4.319	273514	4215.5	91.5	7516.7	341772	522.291 ng/ml
Lorazepam	5.744	1056793	7516.8	45.8	3436.4	91927	581.894 ng/ml
MDA	3.226	7902747	144460.4	24.8	11066.7	245280	972.776 ng/ml
MDMA	3.323	6341533	167839.3	85.0	2009.8	62385	1012.100 ng/ml
Meprobamate	4.935	1324622	16526.9	27.2	7113.9	54491	945.855 ng/ml
Methadone	5.662	10037423	136722.2	44.9	63184.5	419592	1022.676 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Methamphetamine	3.257	3682736	13536.6	42.4	∞	203159	1008.013	ng/ml
Metoprolol	4.344	823650	87597.5	94.2	67975.2	341772	656.719	ng/ml
Mirtazapine	4.630	11063046	146190.7	45.1	34954.7	419592	975.040	ng/ml
Mitragynine	5.239	1017950	1242744.8	32.3	31161.7	179193	907.808	ng/ml
Morphine	1.271	490892	27331.4	24.2	2030.4	8247	1011.634	ng/ml
Norbuprenorphine	5.017	8984	2609.6	100.5	12049.2	4574	96.410	ng/ml
Nordiazepam	5.891	1945917	2092930.2	63.5	1049937.9	71015	1000.739	ng/ml
Norfentanyl	4.107	99248	1894.8	270.2	1836.2	316961	106.761	ng/ml
Noroxycodone	2.953	3110491	4739.5	39.0	1235.2	110258	999.231	ng/ml
O-desmethyl-tramadol	3.404	16748864	6625.1	6.2	70885.5	876072	1031.084	ng/ml
Oxazepam	5.751	2108718	23441.6	78.7	6790.9	124671	964.271	ng/ml
Oxycodone	2.871	9953738	12142.7	26.8	8450.9	402277	996.885	ng/ml
Oxymorphone	1.439	4503102	5769.2	42.0	5615.1	181410	980.930	ng/ml
Phentermine	3.805	1616621	2776.4	7.0	3272.0	223698	978.241	ng/ml
Promethazine	5.559	5952844	5068259.3	37.5	11017.8	270127	1025.879	ng/ml
Quetiapine	5.557	3630828	2374703.6	62.1	1669076.2	57857	885.071	ng/ml
Sertraline	5.781	852610	9627.5	103.0	26363.8	34026	1012.579	ng/ml
Temazepam	5.823	6826337	264514.8	29.8	3280.0	318870	1040.710	ng/ml
Tramadol	4.257	14986887	595543.4	3.2	1370.1	827605	923.322	ng/ml
Trazodone	5.130	7693361	7083.9	76.6	276892.3	279478	1116.907	ng/ml
Venlafaxine	5.065	11373631	1265876.7	37.8	125340.6	659068	1023.919	ng/ml
Zolpidem	4.885	18506637	53359.4	29.4	30310.4	790565	990.695	ng/ml