















**Worklist: 3873**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-2160	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2196	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2197	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2217	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2218	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2236	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2251	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2254	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2256	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2301	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2302	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2304	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2316	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2334	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date 12-9-19                      Analyst: Britany Wylie  
Plate lot#: 190729 (part IDP-111)              Plate Expiration: 1/29/20

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

**Blank Blood Lot:** 19H52275

**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. Pipette **250µL blood (calibrated pipette) Pipette ID: 1926134** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 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. 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: curves limited to 2.5-100 – Buprenorphine: 1-100 - Norbuprenorphine  
25-1000 - Lorazepam  
5-500 – 7-aminoclonazepam, amphetamine, lamotrigine  
10-1000 norhydrocodone, oxazepam  
Oxazepam – qualitative reporting only

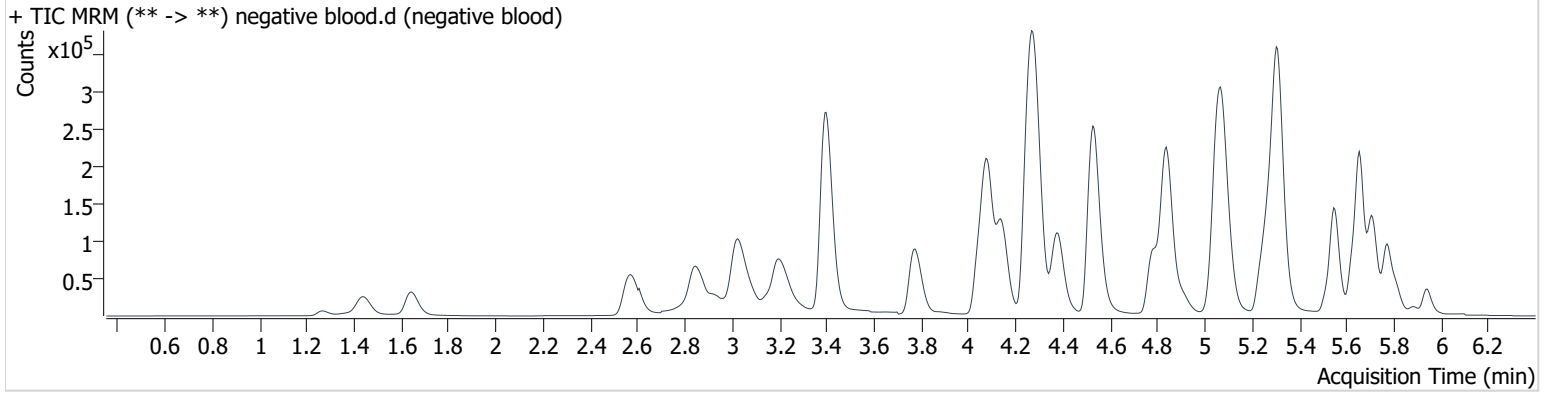
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	negative blood
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-E2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 11:32:44 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

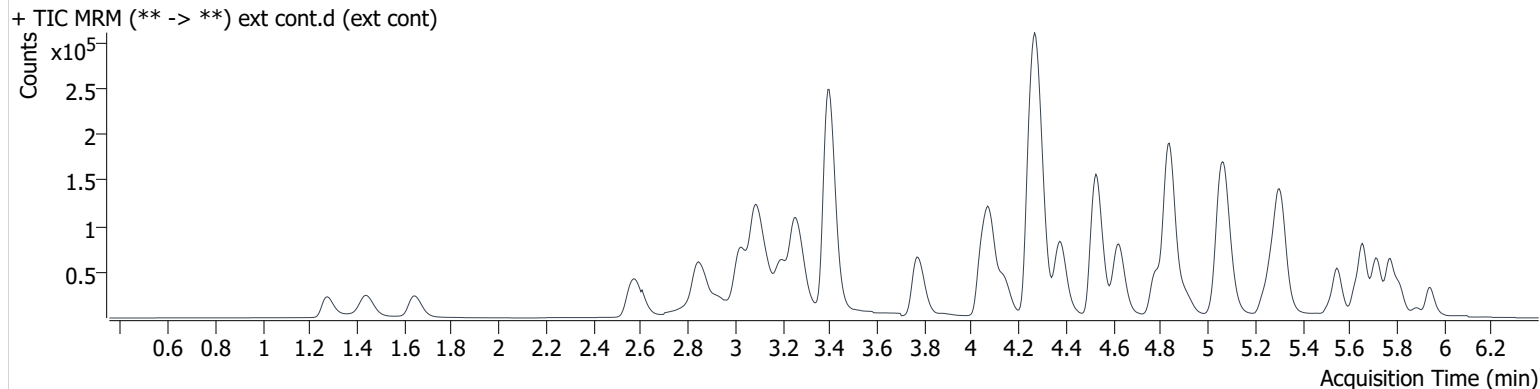


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	ext cont.d
<b>Type</b>	Sample	<b>Sample</b>	ext cont
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-F2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 11:43:35 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	3.096	282338	3574.7	54.7	2164.1	158204	38.737 ng/ml
Buprenorphine	5.683	1111	615.9	18.1	336.3	12769	3.169 ng/ml
Dextromethorphan	5.290	38174	4579.2	73.9	253.4	37546	48.193 ng/ml
Methamphetamine	3.264	217491	96.3	38.4	421.8	201989	40.244 ng/ml
Mirtazapine	4.625	183333	2631.3	45.5	19772.6	164188	45.937 ng/ml
Morphine	1.277	23066	1053.4	20.2	613.9	7096	44.133 ng/ml

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Toxicology AM method 28 panel 1 external prep information

working solution 10000 ng/ml in meoh amphetamine, dextromethorphan, methamphetamine, morphine, paroxetine, amitriptyline meperidine, doxepine, mirtazapine, 1000 ng/ml buprenorphine

Stock solution 1mg/ml (.1mg/ml buprenorphine ) 100 ul each in 9000 ul meOH

Ppd 3/14/19 Exp: 3/14/20 lot 31420 by AMN

Drug	lot	expiration
amphetamine	FE06011503	6/1/2020
dextromethorphan	FN07231501	7/1/2020
methamphetamine	FE08101708	10/1/2022
morphine	FE08141515	11/1/2020
buprenorphine	FE09211501	9/1/2020
paroxetine	FN05111505	6/1/2020
mirtazapine	FN04201503	4/1/2020
meperidine	FE01191502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
doxepin	FN01281502	2/1/2020 (this compound will not be evaluated in this control after 2/1/2020)
amitriptyline	FN07081401	9/1/2019 (this compound will not be evaluated in this control after 9/1/2019)

AM 28 control 50 ul working solution lot (31420) in 9950 ul blood lot (19A207P3)

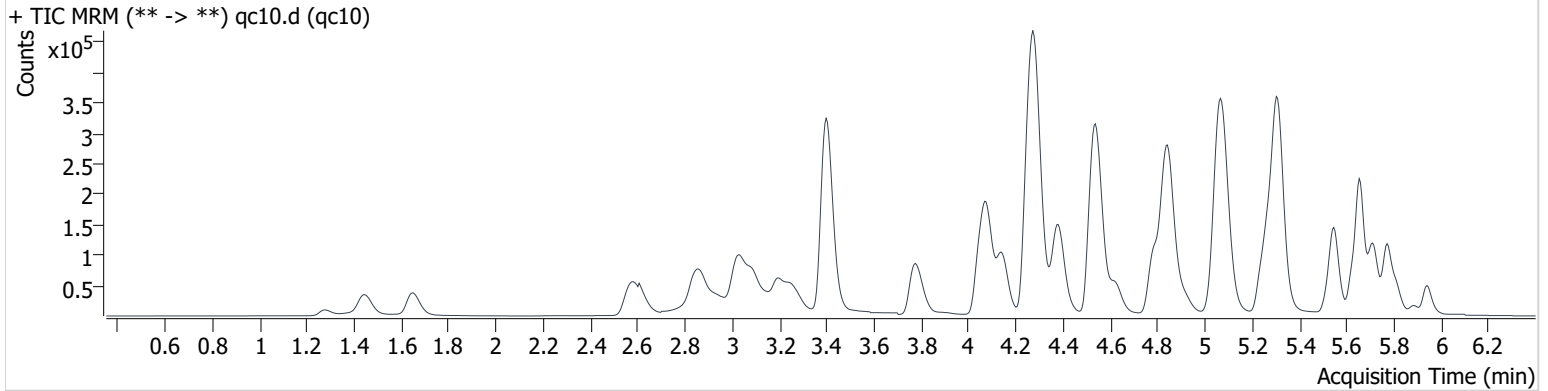
ppd 3/14/19 Exp 3/14/2020 by AMN Concentration 50 ng/ml each (5 ng/ml buprenorphine)

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:30:12 PM

<b>Instrument</b>	69679	<b>Data File</b>	qc10.d
<b>Type</b>	QC	<b>Sample</b>	qc10
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-A2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 10:28:11 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	1972	3256.2	72.6	4838.0	57732	1.000 ng/ml
7-aminoclonazepam	4.292	27984	237.0	83.3	284.6	122827	9.686 ng/ml
a-hydroxyalprazolam	5.704	1275	1414.6	53.8	458.2	6570	9.557 ng/ml
alpha-PVP	4.387	82619	2591.0	53.1	6013.4	365871	9.916 ng/ml
Alprazolam	5.777	27412	2105.3	111.0	1016.3	98544	9.943 ng/ml
Amphetamine	3.096	103453	550.9	55.2	1103.4	199577	10.419 ng/ml
Benzoylcegonine	3.911	2309	1990.3	7.4	206.9	7807	10.757 ng/ml
<b>Buprenorphine</b>	<b>5.683</b>	<b>803</b>	<b>100.4</b>	<b>19.2 High</b>	<b>109.1</b>	<b>29366</b>	<b>1.103 ng/ml *</b>
Bupropion	4.804	77808	3729.3	58.9	547.3	301985	10.168 ng/ml
Carisoprodol	5.728	20858	14217.0	59.9	232.4	98674	9.791 ng/ml
Citalopram	5.246	46737	130.8	43.7	24.7	202884	10.005 ng/ml
Clonazepam	5.622	4210	2975.1	36.3	576.8	7270	10.704 ng/ml
Cocaine	4.286	74008	328.2	45.5	4359.1	611815	9.678 ng/ml
Codeine	2.623	11815	482.7	101.5	2406.1	57310	10.502 ng/ml
Cyclobenzaprine	5.630	36482	435.5	9.0	343.6	138348	10.350 ng/ml
Dextromethorphan	5.290	21420	16745.9	76.0	2378.0	101794	9.849 ng/ml
Dextrorphan	4.146	20794	10248.4	218.8	195.8	229347	10.200 ng/ml
Diazepam	5.947	18403	8032.6	85.1	6767.0	89816	10.140 ng/ml
Dihydrocodeine	2.601	29503	401.9	63.0	326.1	163482	10.429 ng/ml
Diphenhydramine	5.316	132415	4895.9	34.4	197.9	726391	10.313 ng/ml
Doxylamine	4.553	202192	728.3	97.9	4589.0	879509	9.802 ng/ml
EDDP	5.284	23744	32838.0	234.2	146.7	282094	9.731 ng/ml
Fentanyl	5.102	4442	95.9	69.5	306.9	219789	1.032 ng/ml
Fluoxetine	5.710	32380	1754.6	8.0	3257.5	125951	10.489 ng/ml
Hydrocodone	3.053	30788	446.7	38.6	336.3	175944	10.108 ng/ml
Hydromorphone	1.658	26878	2215.8	73.5	2372.3	102739	9.788 ng/ml
Ketamine	4.066	71977	1283.6	37.8	271.7	347007	9.943 ng/ml
Lamotrigine	4.309	8062	1105.8	88.7	518.2	98674	9.439 ng/ml
<b>Lorazepam</b>	<b>5.750</b>	<b>1671</b>	<b>44.1</b>	<b>49.8</b>	<b>16.5</b>	<b>98544</b>	<b>2.269 ng/ml *</b>
Meprobamate	4.937	14216	99.9	29.9	67.0	65988	10.071 ng/ml
Methadone	5.659	78619	2394.0	46.5	1016.1	383963	10.332 ng/ml
Methamphetamine	3.264	67869	22.0	47.5	65.6	200704	10.056 ng/ml
Metoprolol	4.349	18591	2191.6	99.4	1854.9	98674	9.188 ng/ml

qc10

\* outside curve range *BW* 12/11/19

Generated at 2:32 PM on 12/11/2019 *BW*

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	97919	1685.8	45.3	5743.7	383963	10.525 ng/ml
Mitragynine	5.234	12574	235.9	35.9	4463.8	383963	11.240 ng/ml
Morphine	1.282	5464	34086.1	21.2	2565.0	7233	10.002 ng/ml
Norbuprenorphine	5.014	135	51.6	81.1	85.7	4687	1.072 ng/ml
Nordiazepam	5.892	6916	1168.5	64.1	4417.2	23159	10.485 ng/ml
Norfentanyl	4.107	8154	56.8	41.2	136.8	373043	0.967 ng/ml
Norhydrocodone	3.100	1647	268.0	43.6	254.4	58221	11.409 ng/ml
Noroxycodone	2.952	22892	346.5	42.5	314.1	87522	9.511 ng/ml
O-desmethyl-tramadol	3.405	180522	698.1	6.5	555.1	953251	10.311 ng/ml
Oxazepam	5.758	2434	970.1	62.4	29.3	12322	10.409 ng/ml
Oxycodone	2.879	64366	1857.7	29.4	176.6	306958	10.424 ng/ml
Oxymorphone	1.450	29977	5241.2	45.4	22.5	122839	9.565 ng/ml
Phentermine	3.808	26068	79.4	6.3	124.8	308088	9.350 ng/ml
Promethazine	5.552	49663	4506.3	32.9	632.6	220566	10.356 ng/ml
Quetiapine	5.534	60540	3427.7	60.0	1197.6	86725	10.773 ng/ml
Sertraline	5.772	19703	8441.0	98.3	20376.5	91140	10.311 ng/ml
Temazepam	5.819	14753	379.8	28.7	28.6	70511	10.210 ng/ml
Tramadol	4.273	187567	12056.0	3.4	70.3	929255	10.649 ng/ml
Trazodone	5.086	67030	5482.9	79.6	14453.1	288991	10.627 ng/ml
Venlafaxine	5.068	137930	6989.6	38.7	1050.2	719456	10.210 ng/ml
Zolpidem	4.858	178149	1695.1	30.1	8563.4	763735	9.936 ng/ml

BW

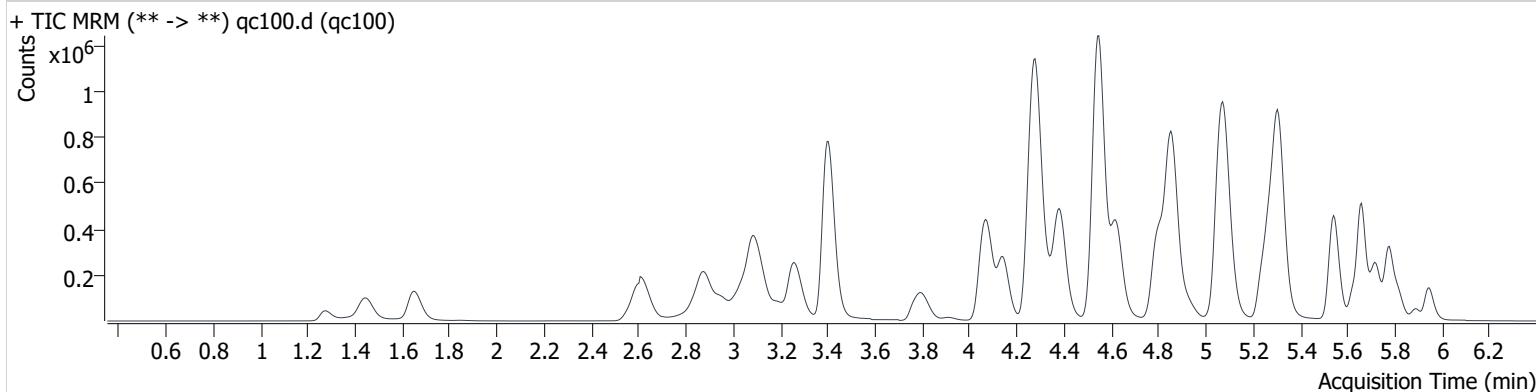
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	qc100.d
<b>Type</b>	QC	<b>Sample</b>	qc100
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-B2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 10:39:00 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	18169	31151.9	76.8	12085.5	54198	9.404 ng/ml
7-aminoclonazepam	4.287	210847	6759.3	82.0	8898.6	100123	98.437 ng/ml
a-hydroxyalprazolam	5.699	10889	1316.4	59.1	7709.2	6152	99.314 ng/ml
alpha-PVP	4.387	791573	70305.6	53.2	1719.4	353454	96.043 ng/ml
Alprazolam	5.777	245928	142.4	109.7	203.6	89389	99.087 ng/ml
Amphetamine	3.096	841260	808.8	54.7	713.0	183314	101.454 ng/ml
Benzoylcegonine	3.911	21490	427.1	7.8	1522.3	7744	96.578 ng/ml
Buprenorphine	5.683	6314	301.7	17.9	127.5	24509	9.084 ng/ml
Bupropion	4.804	696519	9602.3	61.2	2390.3	287190	102.407 ng/ml
Carisoprodol	5.728	187587	275206.4	58.2	1131.2	91339	95.634 ng/ml
Citalopram	5.246	381998	3736.7	44.2	140069.1	169948	100.354 ng/ml
Clonazepam	5.622	38843	800.7	34.1	4525.0	7030	110.910 ng/ml
Cocaine	4.286	679237	4898.9	46.1	924.2	570085	95.866 ng/ml
Codeine	2.628	103885	5159.2	103.6	15054.7	52093	106.410 ng/ml
Cyclobenzaprine	5.630	205297	202767.9	9.4	5871.0	81912	100.328 ng/ml
Dextromethorphan	5.290	157616	10506.2	76.4	13461.1	76804	97.436 ng/ml
Dextrorphan	4.146	190816	20234.5	215.9	33670.9	210611	104.345 ng/ml
Diazepam	5.947	161475	951.7	86.6	6417.7	81902	99.603 ng/ml
Dihydrocodeine	2.601	269095	2577.4	64.3	12327.3	162167	103.998 ng/ml
Diphenhydramine	5.316	1148190	5953.2	34.2	7376.8	641752	96.811 ng/ml
Doxylamine	4.548	2017838	155561.8	96.4	8579.2	888365	99.009 ng/ml
EDDP	5.284	254131	1480.6	238.9	7821.7	304526	98.189 ng/ml
Fentanyl	5.102	30833	33237.1	74.1	42879.4	160874	9.251 ng/ml
Fluoxetine	5.710	169307	5424.6	8.5	1356.2	69643	103.289 ng/ml
Hydrocodone	3.053	292871	24.8	39.0	450.8	172813	100.345 ng/ml
Hydromorphone	1.653	251179	102345.7	73.9	2493.4	96902	98.538 ng/ml
Ketamine	4.066	688079	69690.4	37.8	1853.7	341035	101.523 ng/ml
Lamotrigine	4.309	68035	10290.0	88.6	5202.0	91339	103.442 ng/ml
Lorazepam	5.750	12182	155.1	57.5	169.5	89389	96.355 ng/ml
Meprobamate	4.937	124835	128337.4	29.0	12893.7	61391	98.002 ng/ml
Methadone	5.659	623834	150341.3	47.1	2897.2	319487	94.187 ng/ml
Methamphetamine	3.264	524240	1124.4	40.4	621.2	200318	103.201 ng/ml
Metoprolol	4.349	172690	4890.6	97.5	9629.2	91339	91.658 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	885427	7720.8	45.2	8519.7	319487	113.953 ng/ml
Mitragynine	5.234	88483	263.8	38.1	36488.4	319487	94.861 ng/ml
Morphine	1.277	50242	525.1	20.5	64.0	6665	102.773 ng/ml
Norbuprenorphine	5.014	727	599.8	109.4	545.4	4383	9.002 ng/ml
Nordiazepam	5.892	62813	5298.4	61.7	12333.9	22230	99.704 ng/ml
Norfentanyl	4.107	100512	94659.5	40.6	844.0	453522	9.694 ng/ml
Norhydrocodone	3.105	21736	305.9	43.5	489.8	60708	91.762 ng/ml
Noroxycodone	2.952	215763	620.2	41.7	1861.7	81631	101.329 ng/ml
O-desmethyl-tramadol	3.405	1763228	137405.1	6.4	545.0	948935	98.924 ng/ml
Oxazepam	5.758	16114	145.3	75.6	209.9	9498	97.526 ng/ml
Oxycodone	2.879	607645	894.2	29.9	6222.7	304811	104.302 ng/ml
Oxymorphone	1.445	273470	1883964.2	45.2	502247.6	114957	103.533 ng/ml
Phentermine	3.808	268333	778.1	5.5	1067.4	307770	106.411 ng/ml
Promethazine	5.552	273322	12288.5	31.7	1785.9	125668	96.443 ng/ml
Quetiapine	5.534	544301	2138.4	60.9	201340.5	81312	110.157 ng/ml
Sertraline	5.777	85026	85255.2	102.4	84162.7	42360	96.998 ng/ml
Temazepam	5.819	132488	4141.5	29.7	935.6	64417	100.049 ng/ml
Tramadol	4.268	1686486	290250.7	3.5	1843.9	907722	105.509 ng/ml
Trazodone	5.086	580049	696.2	78.4	137646.6	265645	108.092 ng/ml
Venlafaxine	5.063	1325409	5151.7	38.1	2018.8	704828	96.093 ng/ml
Zolpidem	4.858	1728993	80763.4	30.0	265739.5	750923	99.608 ng/ml

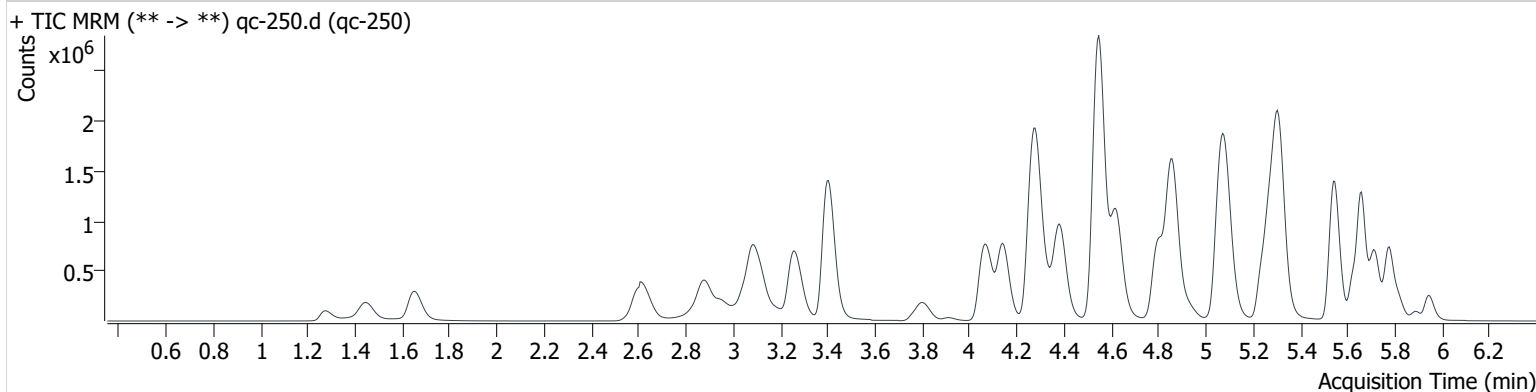
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	qc-250.d
<b>Type</b>	QC	<b>Sample</b>	qc-250
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-C2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 10:49:48 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	46351	2705.4	73.7	44821.6	50754	25.537 ng/ml
7-aminoclonazepam	4.287	327987	23048.6	84.9	10079.0	70014	220.300 ng/ml
a-hydroxyalprazolam	5.704	23610	543.9	58.1	1110.6	5383	248.358 ng/ml
alpha-PVP	4.387	1837742	64887.5	52.8	91624.7	324168	242.726 ng/ml
Alprazolam	5.777	513789	145.2	110.8	693.8	74021	250.119 ng/ml
Amphetamine	3.096	1883270	30808.8	52.6	701.2	165992	252.546 ng/ml
Benzoylcegonine	3.911	54832	425.7	8.1	6991.2	7223	263.270 ng/ml
Buprenorphine	5.683	14993	1214.9	17.1	2494.4	22102	23.665 ng/ml
Bupropion	4.804	1628205	3313.6	60.1	2896.7	271304	254.580 ng/ml
Carisoprodol	5.728	397529	351280.3	58.0	1394.9	74328	249.138 ng/ml
Citalopram	5.246	1062497	72068.9	44.7	248161.1	190488	249.492 ng/ml
Clonazepam	5.622	79072	11964.1	34.8	13125.5	6032	264.534 ng/ml
Cocaine	4.286	1483164	101613.4	45.4	118453.9	489187	244.043 ng/ml
Codeine	2.628	220662	373.2	105.7	5907.2	47010	251.218 ng/ml
Cyclobenzaprine	5.630	877982	286731.1	9.2	4989.7	139748	251.843 ng/ml
Dextromethorphan	5.290	627288	552.7	76.0	130637.4	122381	243.602 ng/ml
Dextrorphan	4.146	680686	15905.5	217.3	70866.8	308954	254.126 ng/ml
Diazepam	5.947	334987	1994.6	88.1	699.8	67347	251.646 ng/ml
Dihydrocodeine	2.596	670727	4248.6	64.1	74153.7	168260	251.220 ng/ml
Diphenhydramine	5.316	3113871	510074.0	33.9	35848.8	676502	248.276 ng/ml
Doxylamine	4.550	5103374	189285.7	96.3	4616.6	876890	254.064 ng/ml
EDDP	5.279	710426	15123.7	235.9	1242736.3	332678	251.559 ng/ml
Fentanyl	5.107	95151	17663.0	75.5	275.9	187949	24.333 ng/ml
Fluoxetine	5.710	872243	279772.4	8.5	90400.1	145093	256.131 ng/ml
Hydrocodone	3.053	737544	3000.8	38.2	906.8	174099	251.258 ng/ml
Hydromorphone	1.653	637750	61004.3	77.6	15731.3	105383	230.286 ng/ml
Ketamine	4.066	1550267	176876.0	37.9	19549.6	309201	253.102 ng/ml
Lamotrigine	4.309	133126	4380.0	88.7	4773.2	74328	251.739 ng/ml
Lorazepam	5.750	24400	2025.1	56.1	473.1	74021	248.801 ng/ml
Meprobamate	4.937	266659	328.7	28.4	58949.8	52125	247.082 ng/ml
Methadone	5.659	1870238	680758.8	47.0	46404.5	377821	237.992 ng/ml
Methamphetamine	3.264	1516609	508.1	41.1	373.5	235071	259.936 ng/ml
Metoprolol	4.344	366113	23667.0	98.5	18968.8	74328	238.695 ng/ml

# AM #28 Multi-Drug Quant. Results

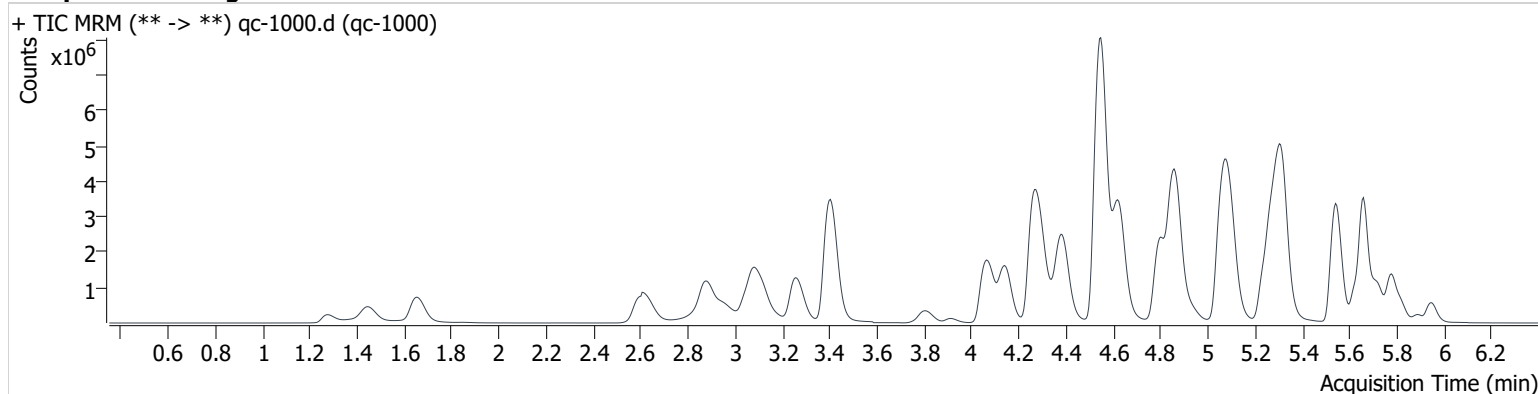
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	2356987	127822.5	45.0	8438.1	377821	256.451 ng/ml
Mitragynine	5.229	259856	255870.8	38.6	52312.8	377821	235.534 ng/ml
Morphine	1.277	128406	848744.9	20.8	184185.5	7112	246.621 ng/ml
Norbuprenorphine	5.014	1820	1421.0	102.7	693.7	4274	24.038 ng/ml
Nordiazepam	5.892	124895	123023.0	61.4	57255.4	17428	252.968 ng/ml
Norfentanyl	4.107	273846	2549.8	40.6	243.4	490436	24.406 ng/ml
Norhydrocodone	3.105	63556	365.2	41.7	1358.0	59389	265.287 ng/ml
Noroxycodone	2.952	485494	1636.4	41.8	956.8	73407	254.404 ng/ml
O-desmethyl-tramadol	3.405	4059718	138177.0	6.3	26779.8	858811	251.275 ng/ml
Oxazepam	5.758	30379	1830.9	74.4	712.0	6834	257.256 ng/ml
Oxycodone	2.879	1371378	1172.0	29.8	913.3	277013	259.925 ng/ml
Oxymorphone	1.445	590564	1063931.2	45.1	521779.5	99784	259.328 ng/ml
Phentermine	3.808	568678	1864.3	5.4	1169.0	272098	256.594 ng/ml
Promethazine	5.552	1393663	2238632.8	31.8	490333.2	253647	243.007 ng/ml
Quetiapine	5.534	1436051	10422.3	60.1	972564.7	87928	269.914 ng/ml
Sertraline	5.777	351735	537581.6	101.4	242484.9	68798	247.301 ng/ml
Temazepam	5.819	279857	1633.2	30.1	1132.1	53130	256.178 ng/ml
Tramadol	4.269	3682613	256701.6	3.4	1683.8	824834	254.822 ng/ml
Trazodone	5.086	1474556	97800.5	79.6	695.5	279338	262.669 ng/ml
Venlafaxine	5.063	3075192	1203.8	37.7	34375.7	637006	245.971 ng/ml
Zolpidem	4.858	3975751	2606.6	29.8	89119.3	684170	251.654 ng/ml

# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
 Calibration Last Update 12/11/2019 2:14:24 PM

Instrument 69679 Data File qc-1000.d  
 Type QC Sample qc-1000  
 Acq. Method mdq p1 cda 121818.m Operator Brittany Wylie  
 Sample Position P2-D2 Comment  
 Injection Volume 2  
 Acq. Date-Time 12/9/2019 11:00:35 PM  
 Sample Info.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	134559	8758.6	74.4	163073.9	35724	105.181 ng/ml
<del>7-aminoclonazepam</del>	<del>4.297</del>	<del>405317</del>	<del>19414.0</del>	<del>83.1</del>	<del>13629.5</del>	<del>26113</del>	<del>732.427 ng/ml</del> *
a-hydroxyalprazolam	5.699	67381	3168.7	59.4	1271.9	3834	999.673 ng/ml
alpha-PVP	4.387	5593725	2464026.0	52.6	329203.4	240135	996.550 ng/ml
Alprazolam	5.777	1338351	602.6	109.0	3469.6	47444	1016.747 ng/ml
<del>Amphetamine</del>	<del>3.096</del>	<del>3842827</del>	<del>62881.4</del>	<del>52.2</del>	<del>1528.7</del>	<del>99923</del>	<del>858.854 ng/ml</del> *
Benzoylcegonine	3.911	237440	107018.5	8.1	93.1	7126	1153.938 ng/ml
Buprenorphine	5.683	41743	6800.3	15.4	2505.1	14283	101.446 ng/ml
Bupropion	4.799	5125590	11163.6	60.3	23666.4	222937	977.542 ng/ml
Carisoprodol	5.728	941738	620883.6	58.7	4214.4	44273	991.047 ng/ml
Citalopram	5.241	2816009	2231.5	45.5	452.5	125700	1003.007 ng/ml
Clonazepam	5.617	237265	4220.0	33.7	44571.2	5082	944.865 ng/ml
Cocaine	4.286	3682975	282298.8	45.2	6670.6	302056	981.627 ng/ml
Codeine	2.633	566980	15042.8	102.1	56657.4	31201	974.163 ng/ml
Cyclobenzaprine	5.625	1900625	28497.1	9.2	4120.2	77119	988.596 ng/ml
Dextromethorphan	5.290	1246564	5512.3	74.3	53763.0	59185	1001.484 ng/ml
Dextrorphan	4.146	1639963	2026.4	218.5	133828.2	181110	1045.285 ng/ml
Diazepam	5.947	907550	5653.5	86.4	6254.3	46538	987.295 ng/ml
Dihydrocodeine	2.591	1728528	103769.8	64.6	43913.4	131378	831.441 ng/ml
Diphenhydramine	5.320	8635497	399907.6	33.4	13595.4	453748	1024.972 ng/ml
Doxylamine	4.548	15895804	19344.1	96.3	453549.2	712856	974.135 ng/ml
EDDP	5.279	2601747	2399.1	241.4	5809.8	302651	1013.252 ng/ml
Fentanyl	5.112	301270	3054.4	77.1	3080.8	130198	110.992 ng/ml
Fluoxetine	5.710	1176269	6911.9	8.5	112849.8	50006	1003.609 ng/ml
Hydrocodone	3.053	2241083	3289.6	39.4	379.3	132732	1002.250 ng/ml
Hydromorphone	1.653	1883268	6933560.9	74.6	36799.4	73565	974.725 ng/ml
Ketamine	4.066	4705931	16015639.1	37.5	2572.4	248195	958.683 ng/ml
<del>Lamotrigine</del>	<del>4.314</del>	<del>234258</del>	<del>441.3</del>	<del>89.5</del>	<del>245.3</del>	<del>44273</del>	<del>747.894 ng/ml</del> *
Lorazepam	5.750	69992	684.4	57.4	1268.2	47444	1152.032 ng/ml
Meprobamate	4.937	796784	371579.2	28.7	163126.2	38354	1004.442 ng/ml
Methadone	5.659	6214487	503822.4	45.9	25008.8	306033	974.736 ng/ml
Methamphetamine	3.258	2803392	520.9	40.7	422.0	117649	970.174 ng/ml
Metoprolol	4.344	788024	22978.0	97.4	99879.6	44273	862.392 ng/ml

qc-1000

\* outside curve range *BW* 12/11/19

Generated at 2:15 PM on 12/11/2019

*BW*

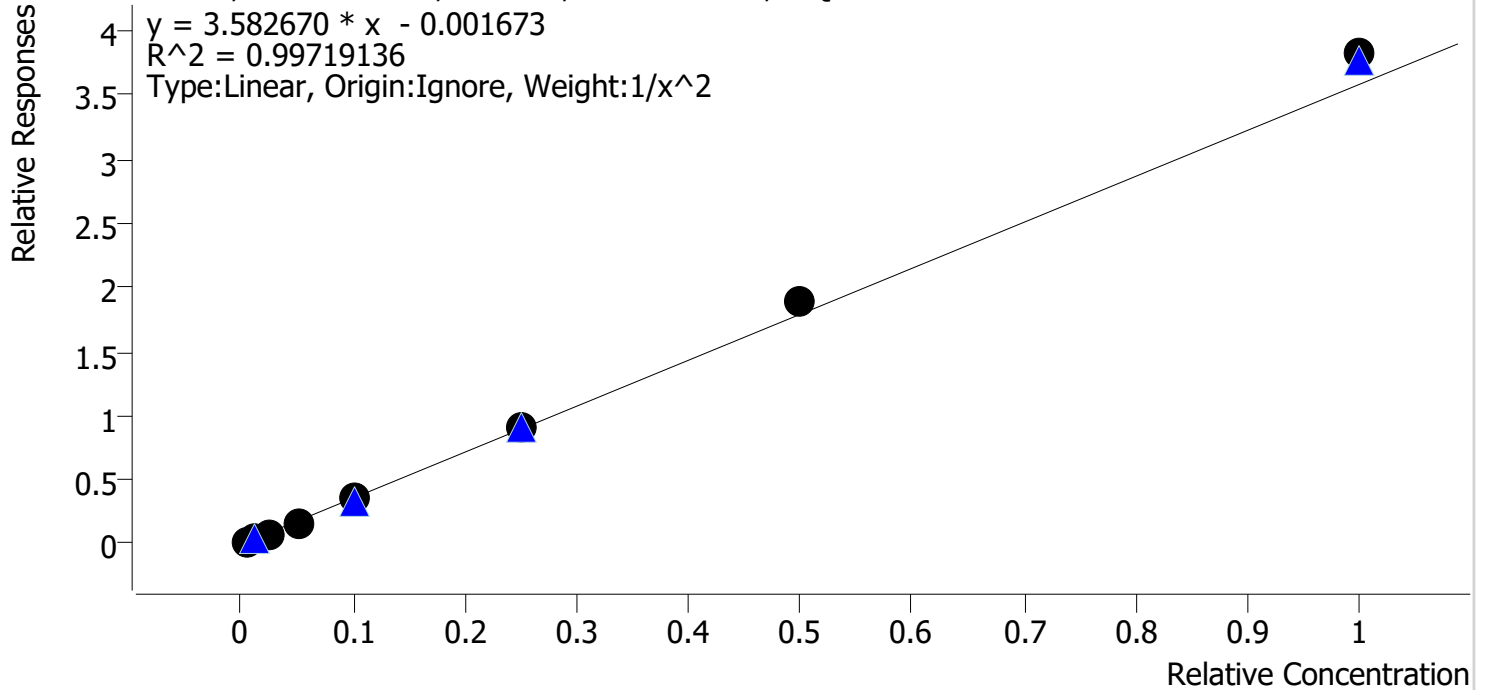
# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.626	7838519	13243.0	44.6	149133.8	306033	1052.798 ng/ml
Mitragynine	5.229	773571	163827.4	38.2	547.2	306033	865.573 ng/ml
Morphine	1.277	328685	555648.9	20.8	290991.2	4382	1025.717 ng/ml
Norbuprenorphine	5.014	6236	6053.3	89.3	5590.3	3615	99.166 ng/ml
Nordiazepam	5.892	344639	349401.2	61.2	133647.1	12035	1010.987 ng/ml
Norfentanyl	4.107	648535	4131.5	40.2	11020.9	258099	109.786 ng/ml
Norhydrocodone	3.110	199123	341.4	41.1	1387.7	42331	1150.736 ng/ml
Noroxycodone	2.952	1356185	7125.6	41.4	788.5	53084	984.366 ng/ml
O-desmethyl-tramadol	3.404	12616837	364947.7	6.1	72908.8	641812	1044.141 ng/ml
Oxazepam	5.758	84791	6156.3	72.4	921.2	4800	1025.387 ng/ml
Oxycodone	2.874	4586977	12884.0	29.7	5124.7	229706	1050.297 ng/ml
Oxymorphone	1.445	1720423	9547031.1	45.0	4000765.8	78243	966.663 ng/ml
Phentermine	3.808	1335268	1502.8	5.2	4004.4	183716	895.015 ng/ml
Promethazine	5.552	2940217	1237997.0	31.4	17453.2	130271	996.923 ng/ml
Quetiapine	5.535	4538024	3724201.9	60.3	3438866.5	76178	986.615 ng/ml
Sertraline	5.777	452931	11959.1	103.1	8032.6	21778	1006.457 ng/ml
Temazepam	5.819	860508	7546.8	29.8	3553.1	39948	1047.511 ng/ml
Tramadol	4.262	9675834	772621.9	3.4	17675.5	566014	978.265 ng/ml
Trazodone	5.096	4582147	210377.2	79.1	1060.3	253804	900.673 ng/ml
Venlafaxine	5.063	9351924	4939.6	37.6	7781.6	474965	1001.799 ng/ml
Zolpidem	4.861	12436611	4949.0	28.9	631678.1	537277	1002.944 ng/ml

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6

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



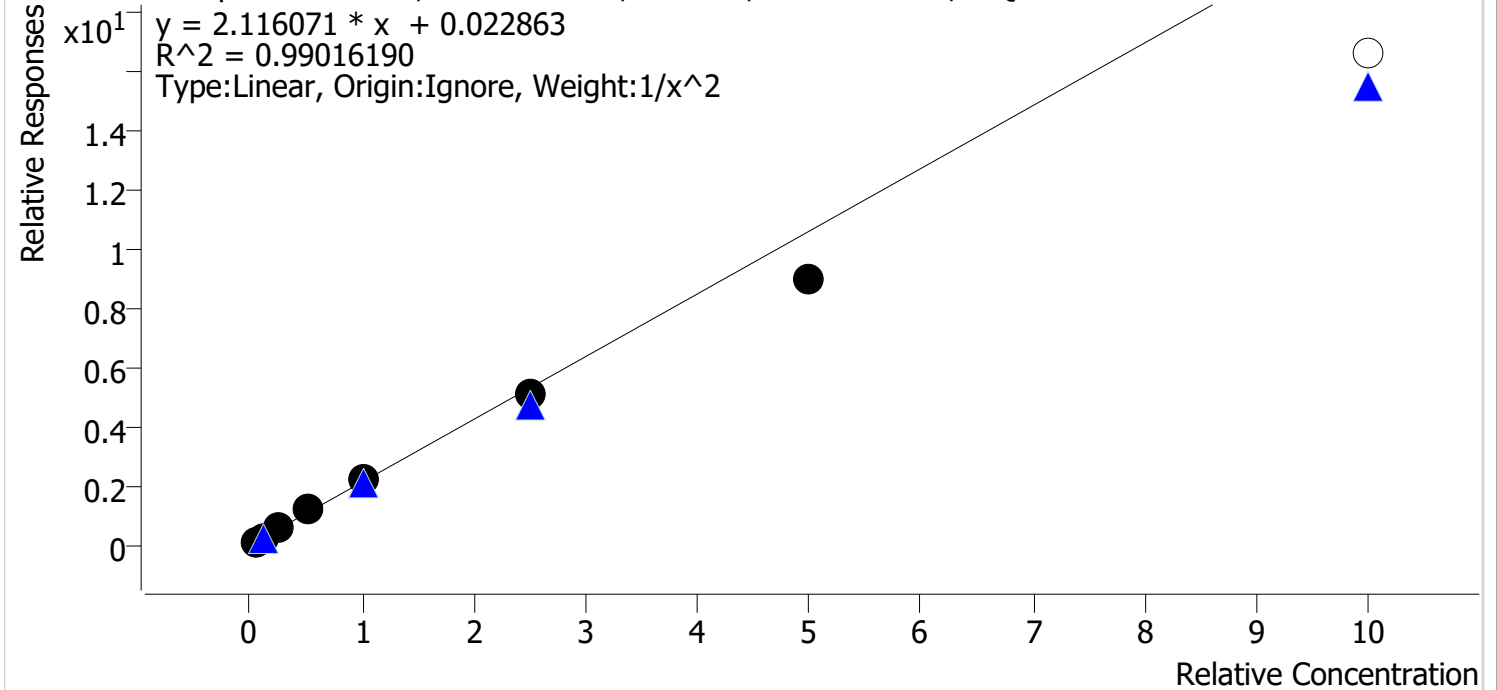
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	102.5
cal 2	2	✓	1.0	1.0	98.4
cal 3	3	✓	2.5	2.4	94.7
cal 4	4	✓	5.0	4.7	94.4
cal 5	5	✓	10.0	9.8	97.7
cal 6	6	✓	25.0	25.1	100.2
cal 7	7	✓	50.0	52.7	105.5
cal 8	8	✓	100.0	106.7	106.7

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	12/11/2019 2:14 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	7-aminoclonazepam	<b>Internal Standard</b>	7-Aminoclonazepam-D4

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

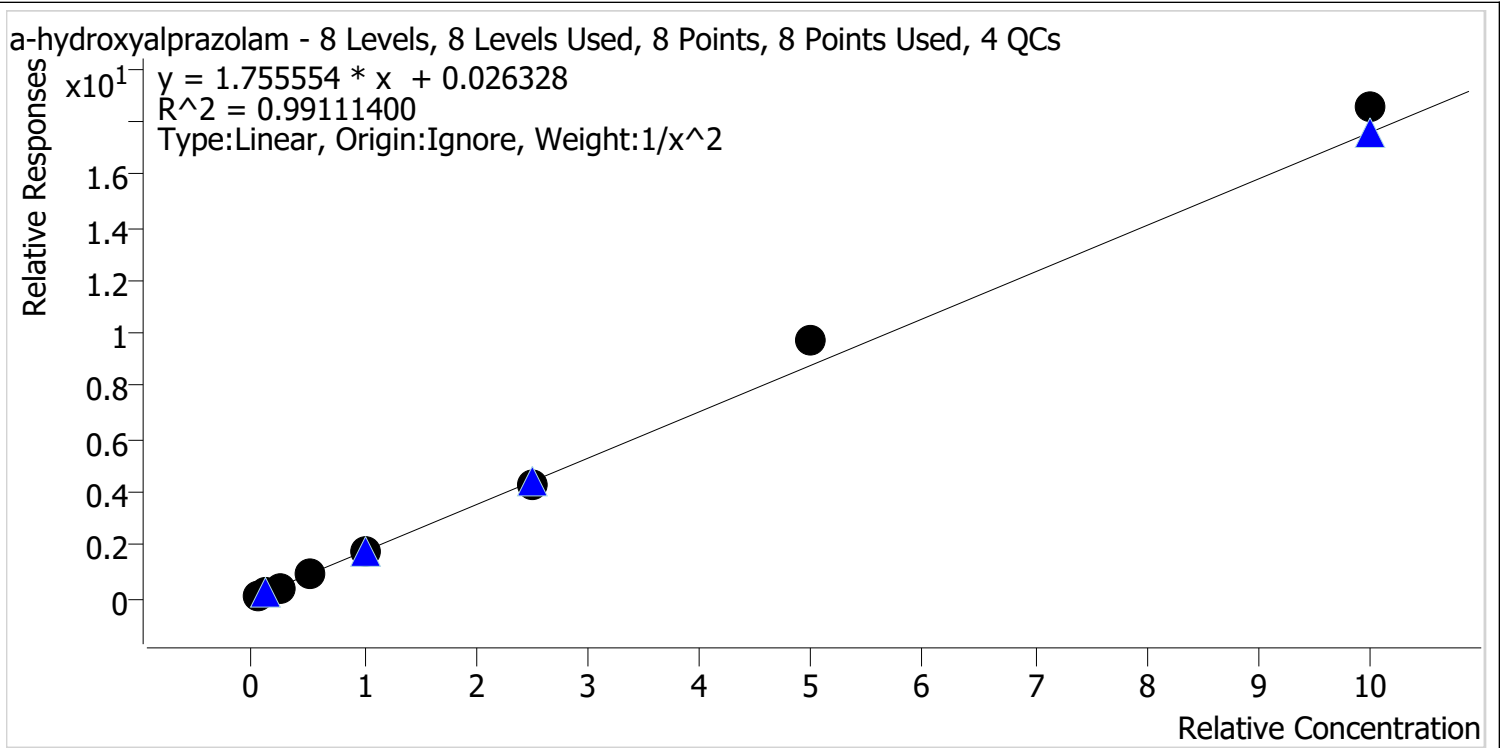


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.6
cal 2	2	✓	10.0	10.2	101.7
cal 3	3	✓	25.0	27.2	108.6
cal 4	4	✓	50.0	54.2	108.4
cal 5	5	✓	100.0	103.6	103.6
cal 6	6	✓	250.0	241.6	96.6
cal 7	7	✓	500.0	422.2	84.4
cal 8	8	✗	1000.0	783.0	78.3

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	12/11/2019 2:14 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	a-hydroxyalprazolam	<b>Internal Standard</b>	a-hydroxyalprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	107.7
cal 2	2	✓	10.0	8.8	87.8
cal 3	3	✓	25.0	22.6	90.5
cal 4	4	✓	50.0	51.8	103.6
cal 5	5	✓	100.0	97.1	97.1
cal 6	6	✓	250.0	242.8	97.1
cal 7	7	✓	500.0	553.8	110.8
cal 8	8	✓	1000.0	1054.1	105.4

BW

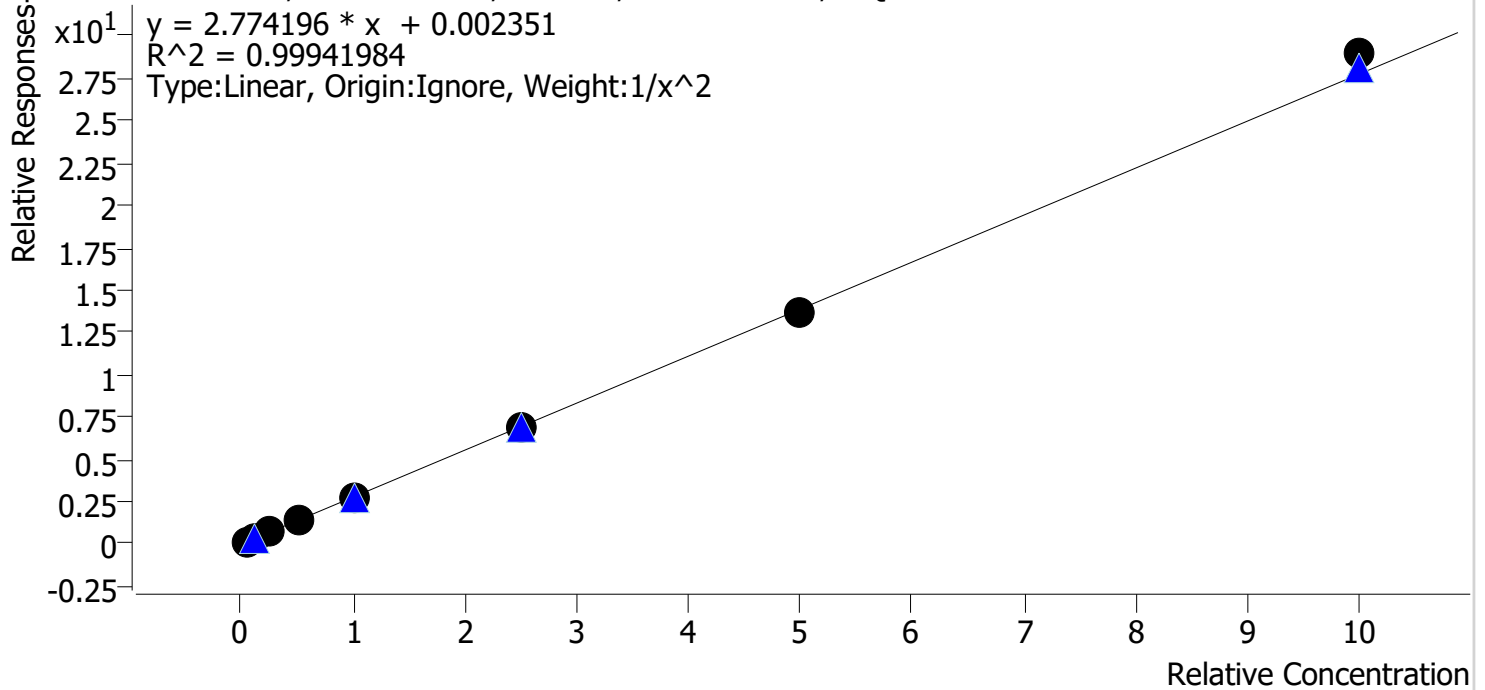




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

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



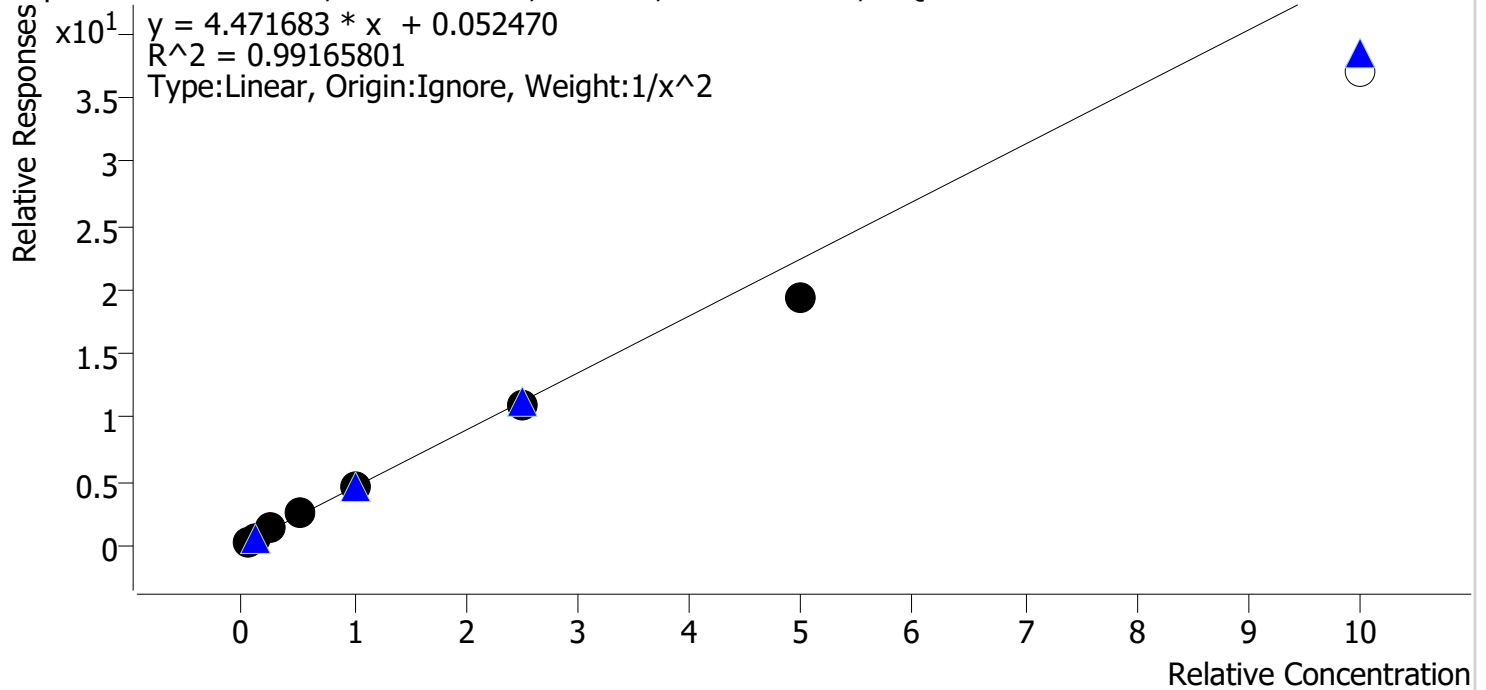
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	9.9	98.5
cal 3	3	✓	25.0	24.9	99.8
cal 4	4	✓	50.0	49.9	99.7
cal 5	5	✓	100.0	97.6	97.6
cal 6	6	✓	250.0	251.5	100.6
cal 7	7	✓	500.0	492.5	98.5
cal 8	8	✓	1000.0	1043.6	104.4

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

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



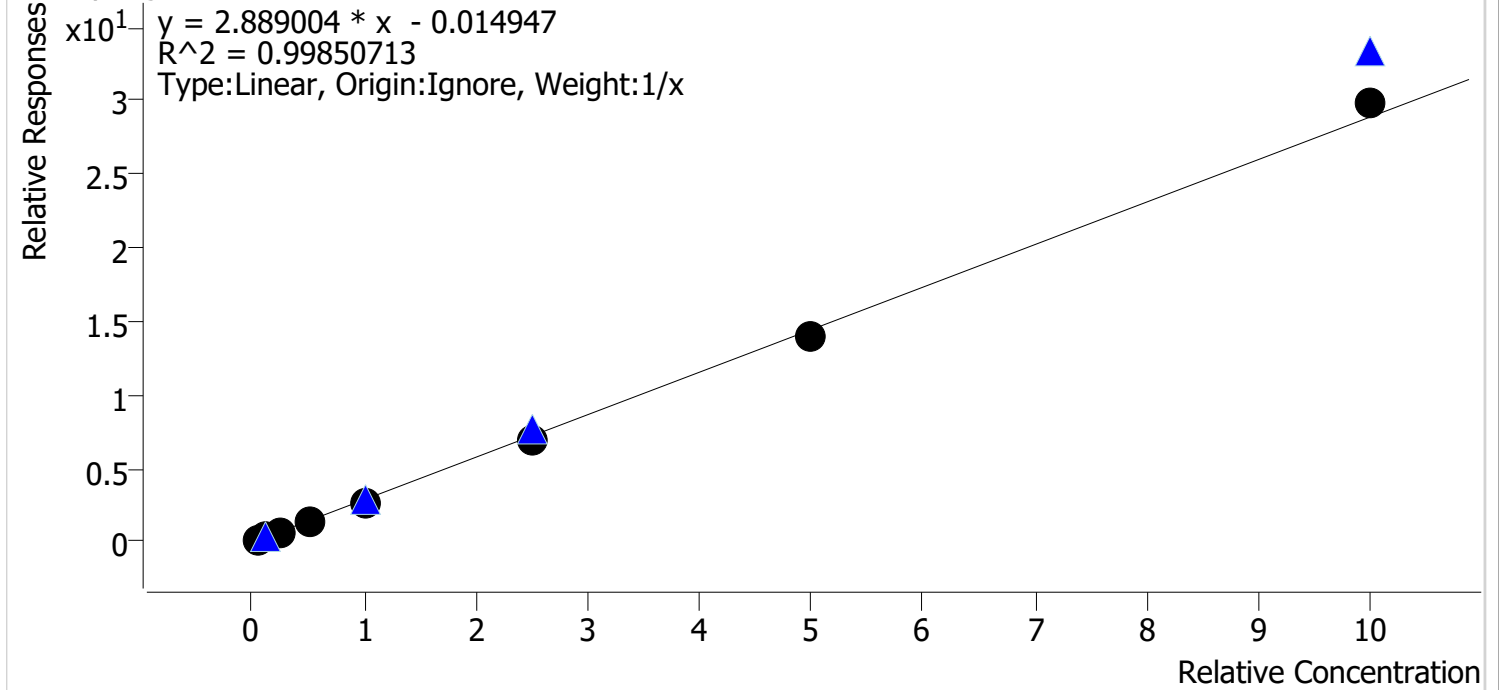
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.2
cal 2	2	✓	10.0	10.5	105.3
cal 3	3	✓	25.0	26.9	107.8
cal 4	4	✓	50.0	53.9	107.9
cal 5	5	✓	100.0	100.7	100.7
cal 6	6	✓	250.0	240.8	96.3
cal 7	7	✓	500.0	434.4	86.9
cal 8	8	✗	1000.0	829.8	83.0

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	12/11/2019 2:14 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Benzoylecgonine	<b>Internal Standard</b>	Benzoylecgonine-d8

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



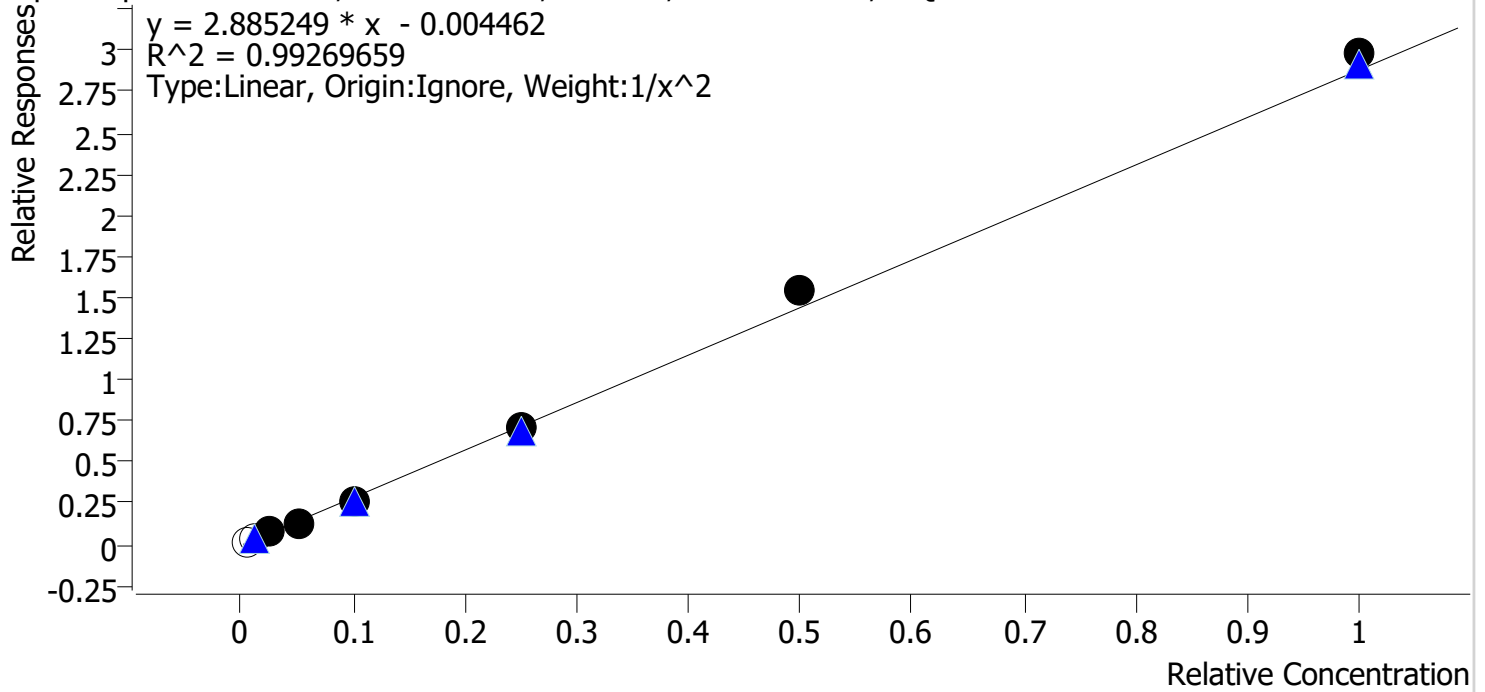
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.9	118.5
cal 2	2	✓	10.0	10.2	101.7
cal 3	3	✓	25.0	23.3	93.2
cal 4	4	✓	50.0	48.6	97.1
cal 5	5	✓	100.0	93.2	93.2
cal 6	6	✓	250.0	239.2	95.7
cal 7	7	✓	500.0	487.3	97.5
cal 8	8	✓	1000.0	1032.5	103.2

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

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



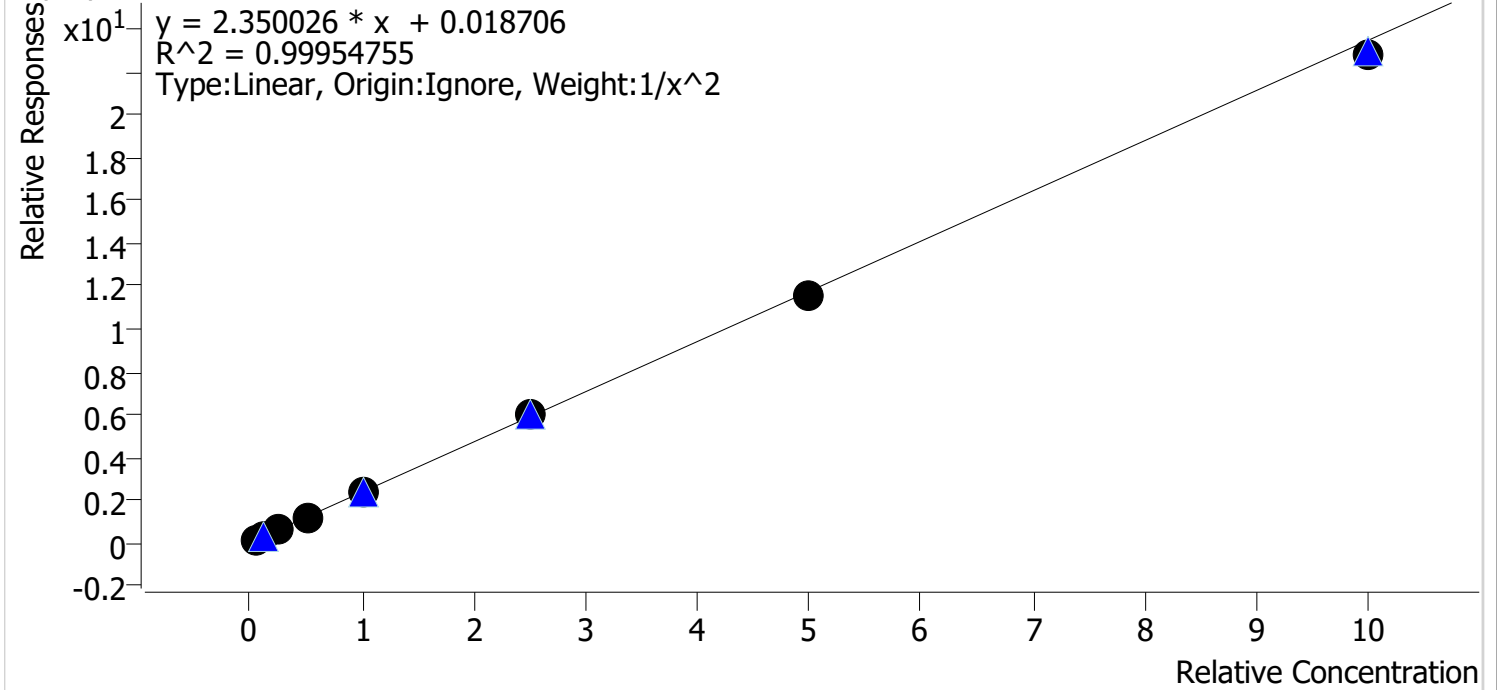
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	0.5	0.7	144.0
cal 2	2	x	1.0	1.0	99.5
cal 3	3	✓	2.5	2.6	106.0
cal 4	4	✓	5.0	4.5	90.8
cal 5	5	✓	10.0	9.3	92.7
cal 6	6	✓	25.0	25.0	99.9
cal 7	7	✓	50.0	53.6	107.1
cal 8	8	✓	100.0	103.4	103.4

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**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	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	9.9	99.1
cal 3	3	✓	25.0	25.4	101.4
cal 4	4	✓	50.0	51.4	102.8
cal 5	5	✓	100.0	100.3	100.3
cal 6	6	✓	250.0	253.2	101.3
cal 7	7	✓	500.0	491.0	98.2
cal 8	8	✓	1000.0	971.1	97.1

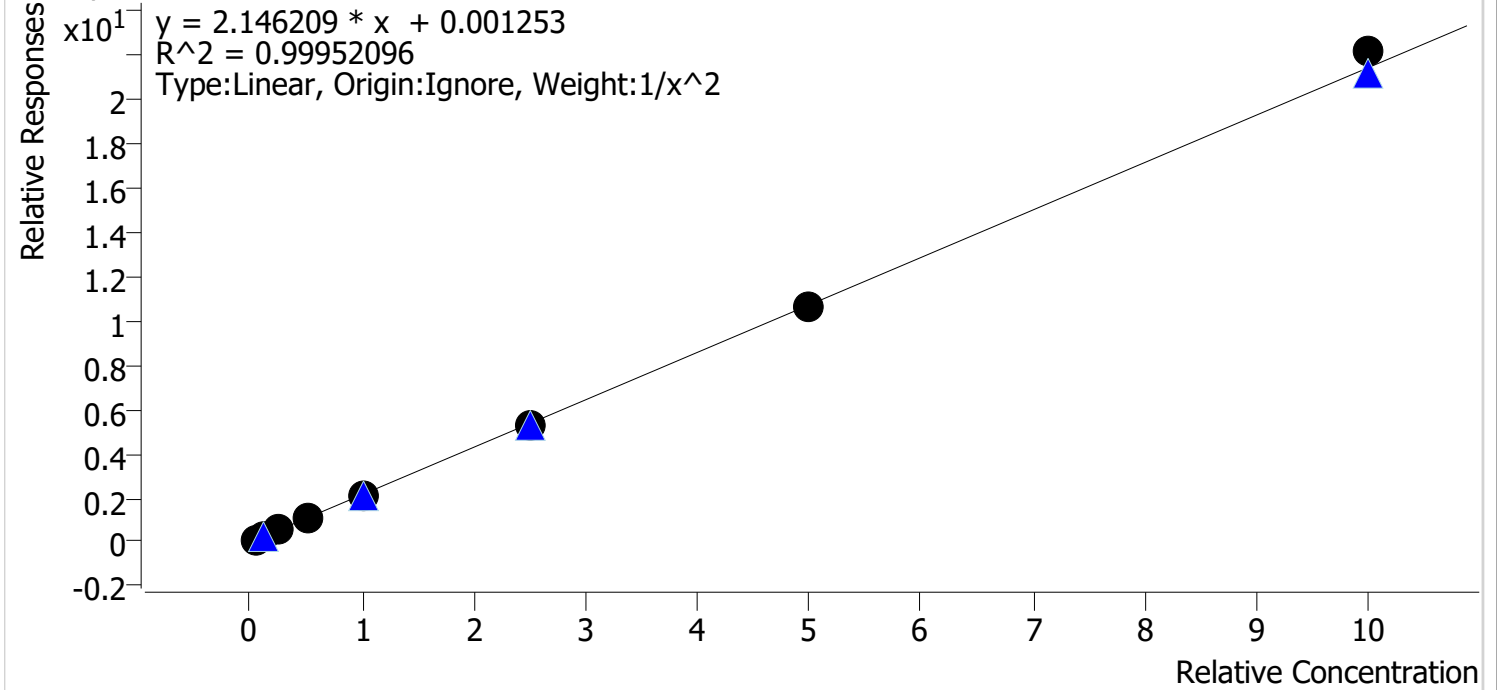
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol

**Internal Standard** Carisoprodol-D7

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



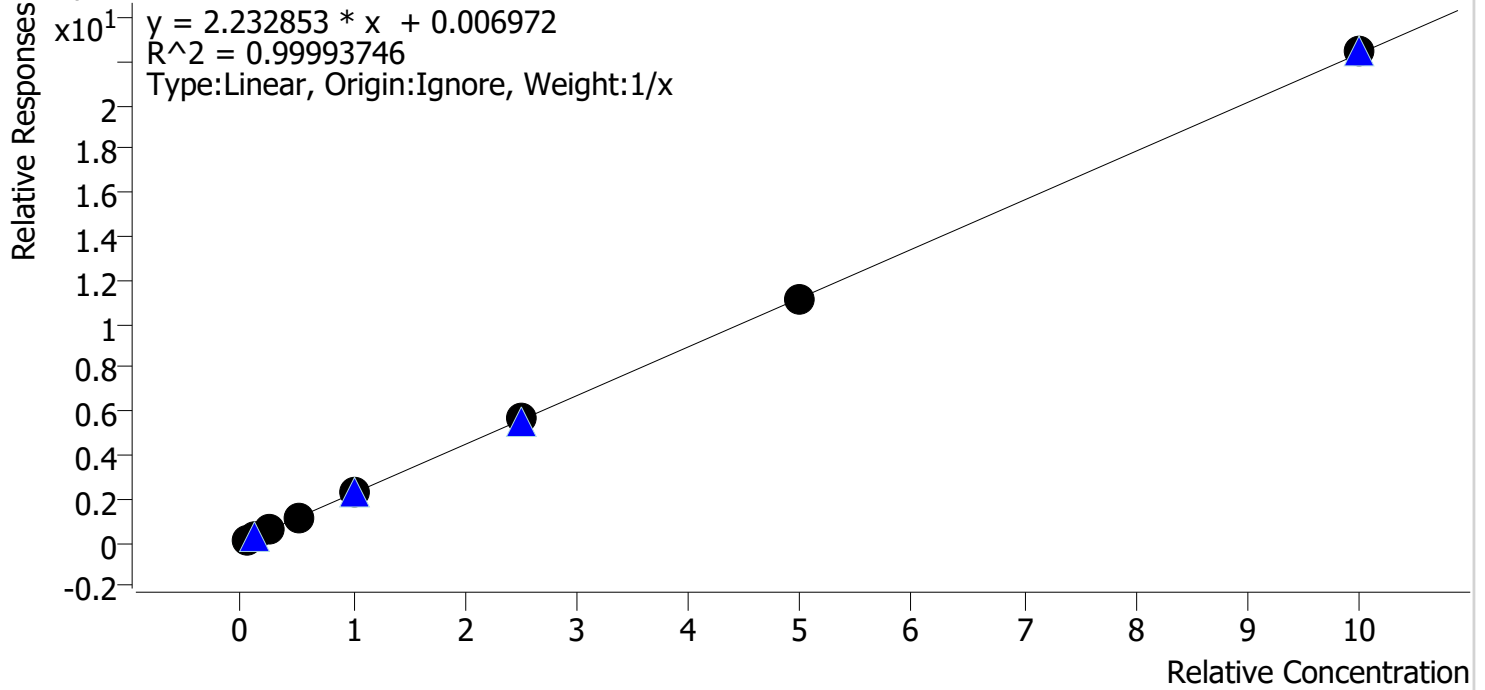
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.4
cal 2	2	✓	10.0	10.2	101.5
cal 3	3	✓	25.0	25.2	100.8
cal 4	4	✓	50.0	48.9	97.8
cal 5	5	✓	100.0	97.6	97.6
cal 6	6	✓	250.0	249.1	99.7
cal 7	7	✓	500.0	499.2	99.8
cal 8	8	✓	1000.0	1033.9	103.4

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**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	1	✓	5.0	5.1	102.4
cal 2	2	✓	10.0	9.8	98.2
cal 3	3	✓	25.0	24.6	98.4
cal 4	4	✓	50.0	50.7	101.5
cal 5	5	✓	100.0	99.7	99.7
cal 6	6	✓	250.0	251.3	100.5
cal 7	7	✓	500.0	494.5	98.9
cal 8	8	✓	1000.0	1004.2	100.4

*BW*

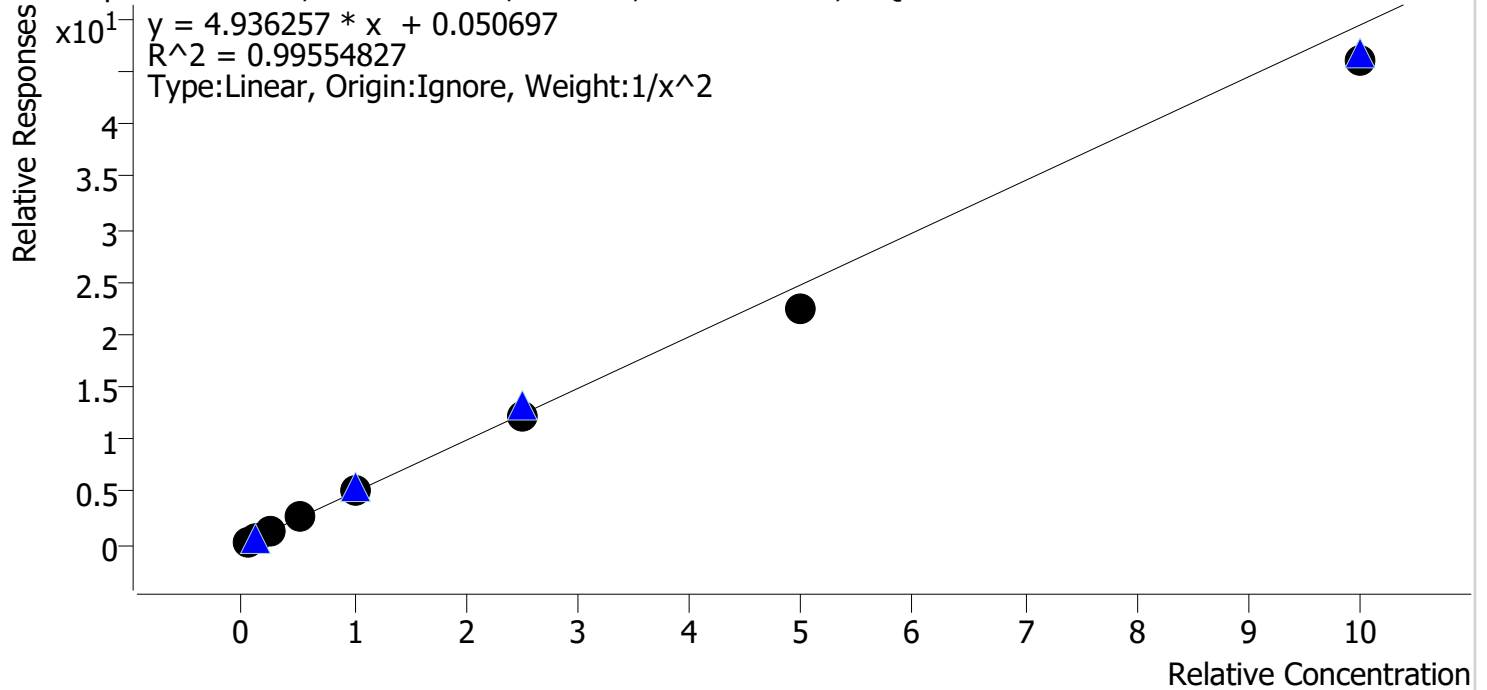


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam

**Internal Standard** Clonazepam-D4

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



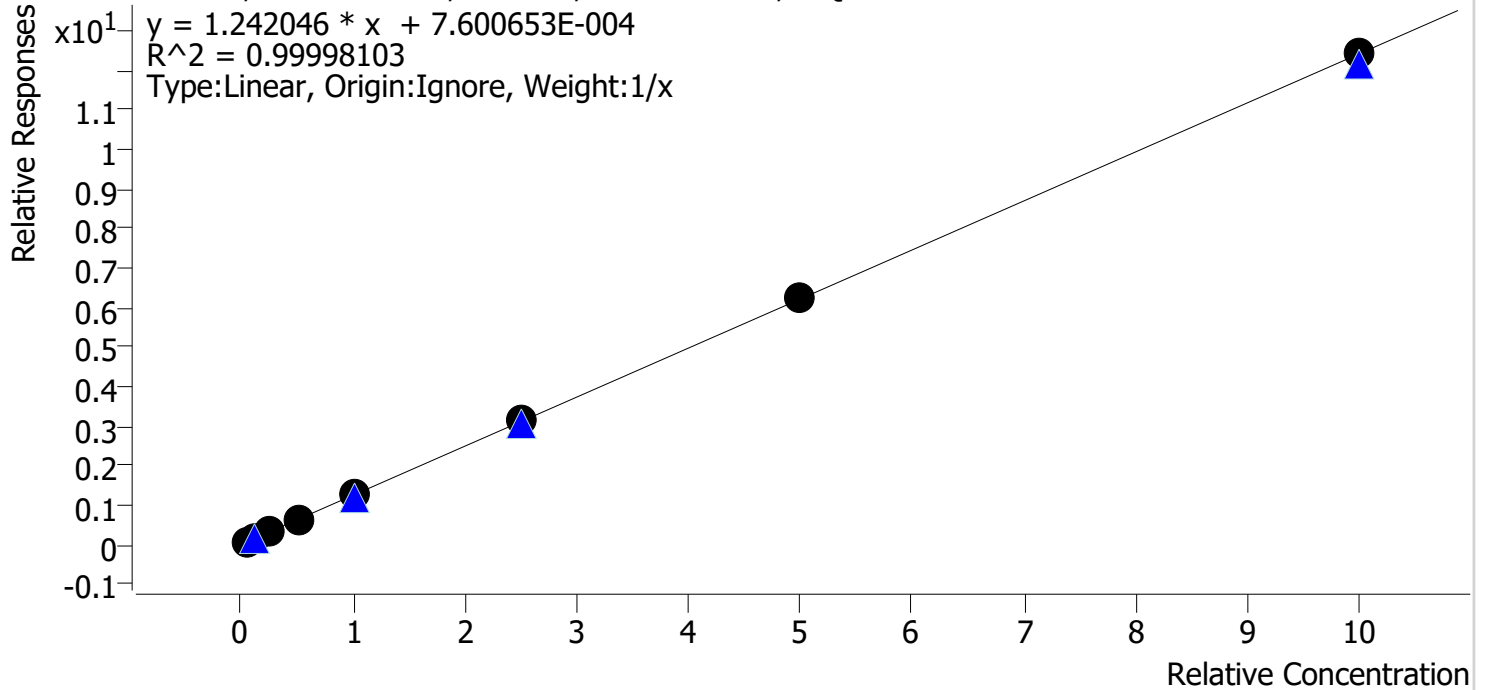
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.6
cal 2	2	✓	10.0	10.1	101.1
cal 3	3	✓	25.0	26.3	105.2
cal 4	4	✓	50.0	53.4	106.8
cal 5	5	✓	100.0	105.4	105.4
cal 6	6	✓	250.0	249.0	99.6
cal 7	7	✓	500.0	456.4	91.3
cal 8	8	✓	1000.0	929.7	93.0

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**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	1	✓	5.0	5.1	102.1
cal 2	2	✓	10.0	10.0	100.0
cal 3	3	✓	25.0	24.7	98.9
cal 4	4	✓	50.0	50.1	100.3
cal 5	5	✓	100.0	98.4	98.4
cal 6	6	✓	250.0	250.1	100.0
cal 7	7	✓	500.0	501.1	100.2
cal 8	8	✓	1000.0	1000.4	100.0

*BW*



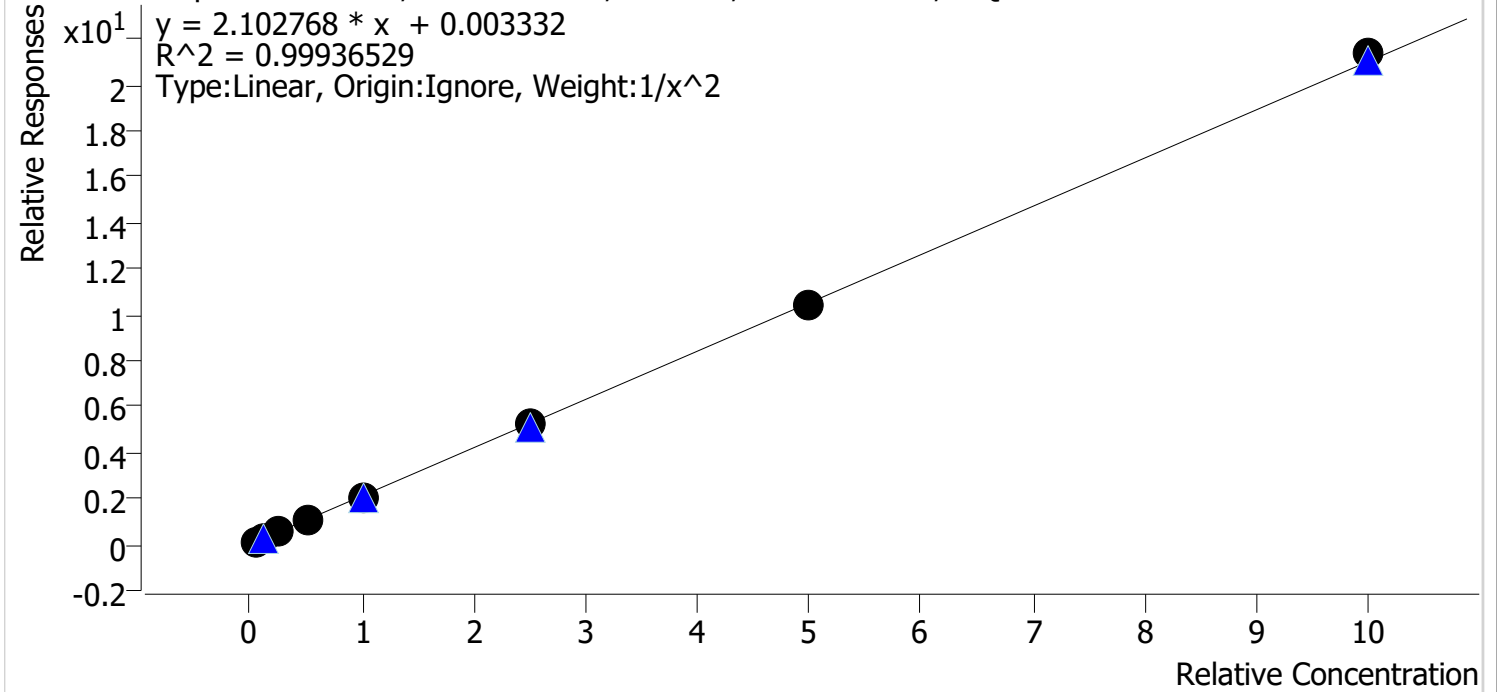


# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**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	1	✓	5.0	5.0	100.7
cal 2	2	✓	10.0	9.8	97.9
cal 3	3	✓	25.0	25.2	100.6
cal 4	4	✓	50.0	51.8	103.6
cal 5	5	✓	100.0	96.6	96.6
cal 6	6	✓	250.0	250.2	100.1
cal 7	7	✓	500.0	494.0	98.8
cal 8	8	✓	1000.0	1016.5	101.6

*BW*

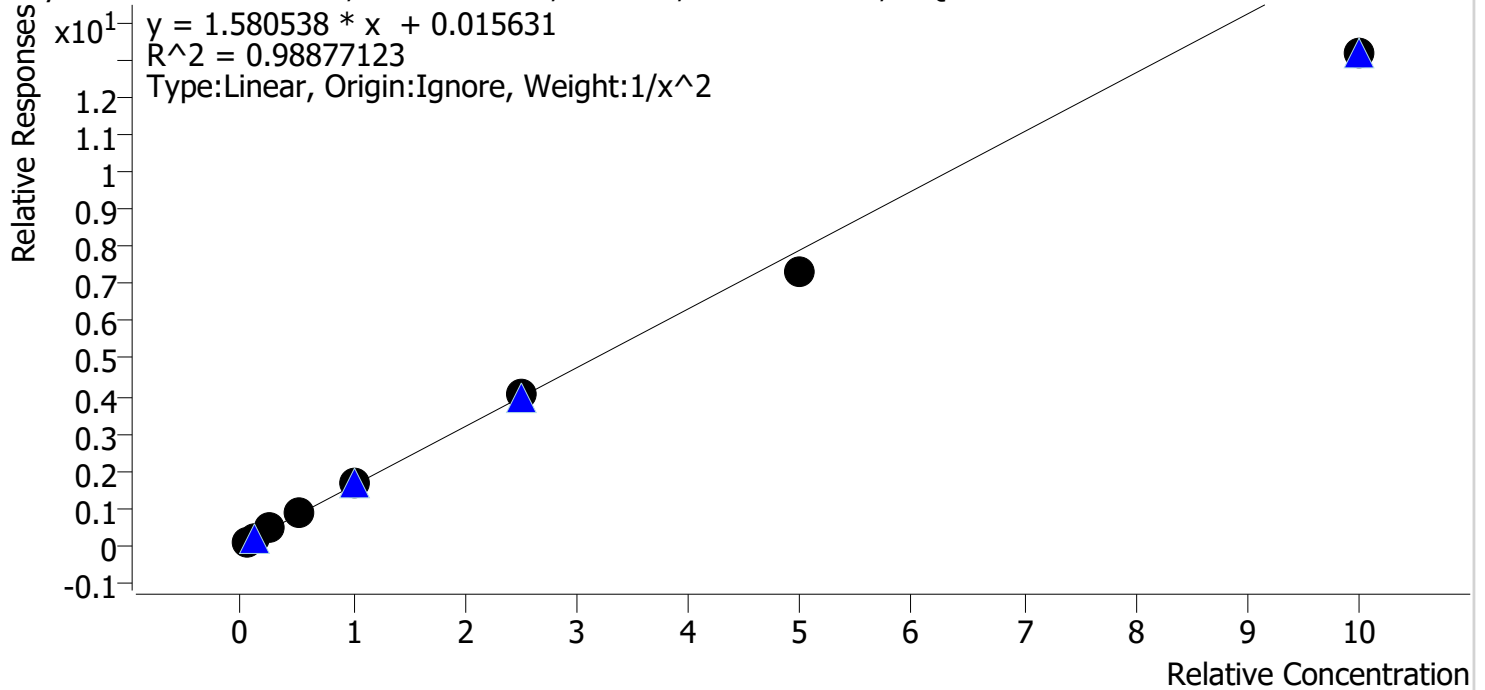




# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	12/11/2019 2:14 PM		
<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, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.2
cal 2	2	✓	10.0	10.1	101.4
cal 3	3	✓	25.0	27.2	109.0
cal 4	4	✓	50.0	55.7	111.5
cal 5	5	✓	100.0	105.0	105.0
cal 6	6	✓	250.0	253.9	101.6
cal 7	7	✓	500.0	460.2	92.0
cal 8	8	✓	1000.0	832.9	83.3

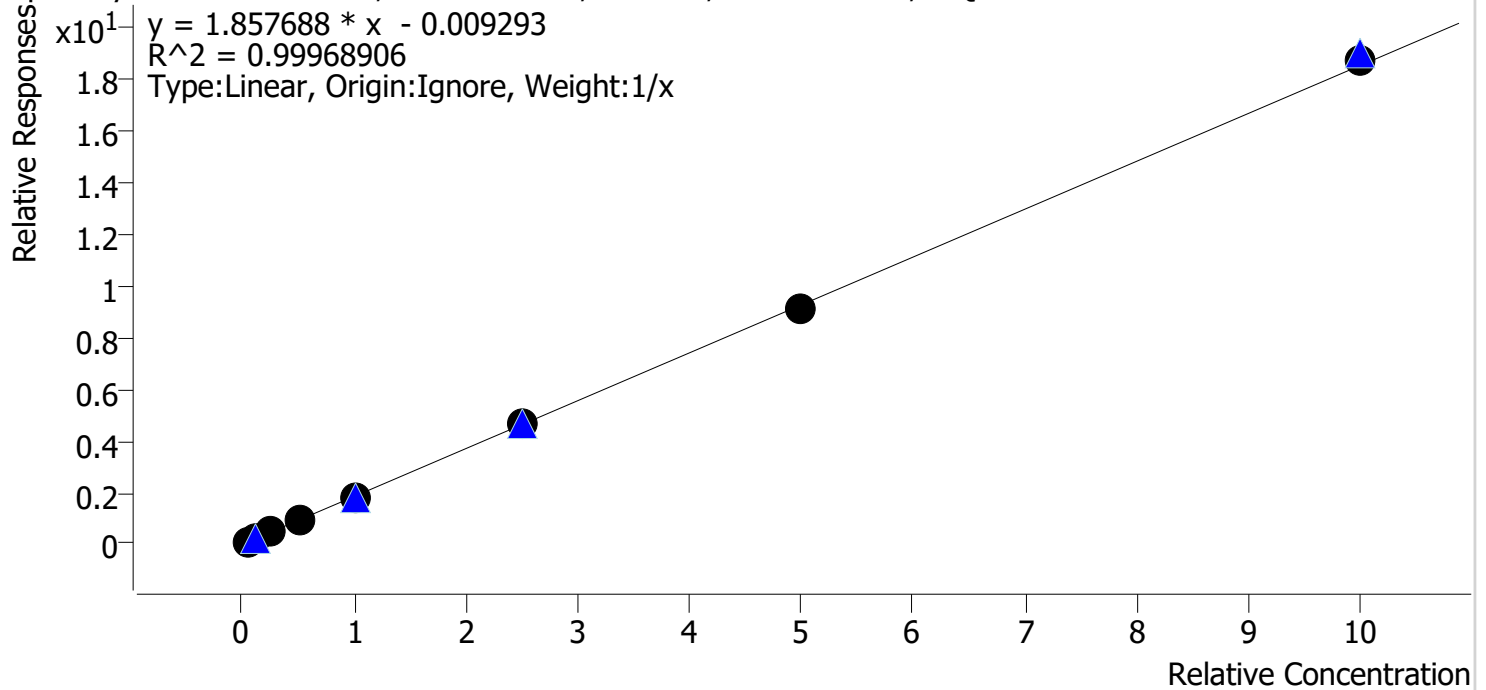
BW



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

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



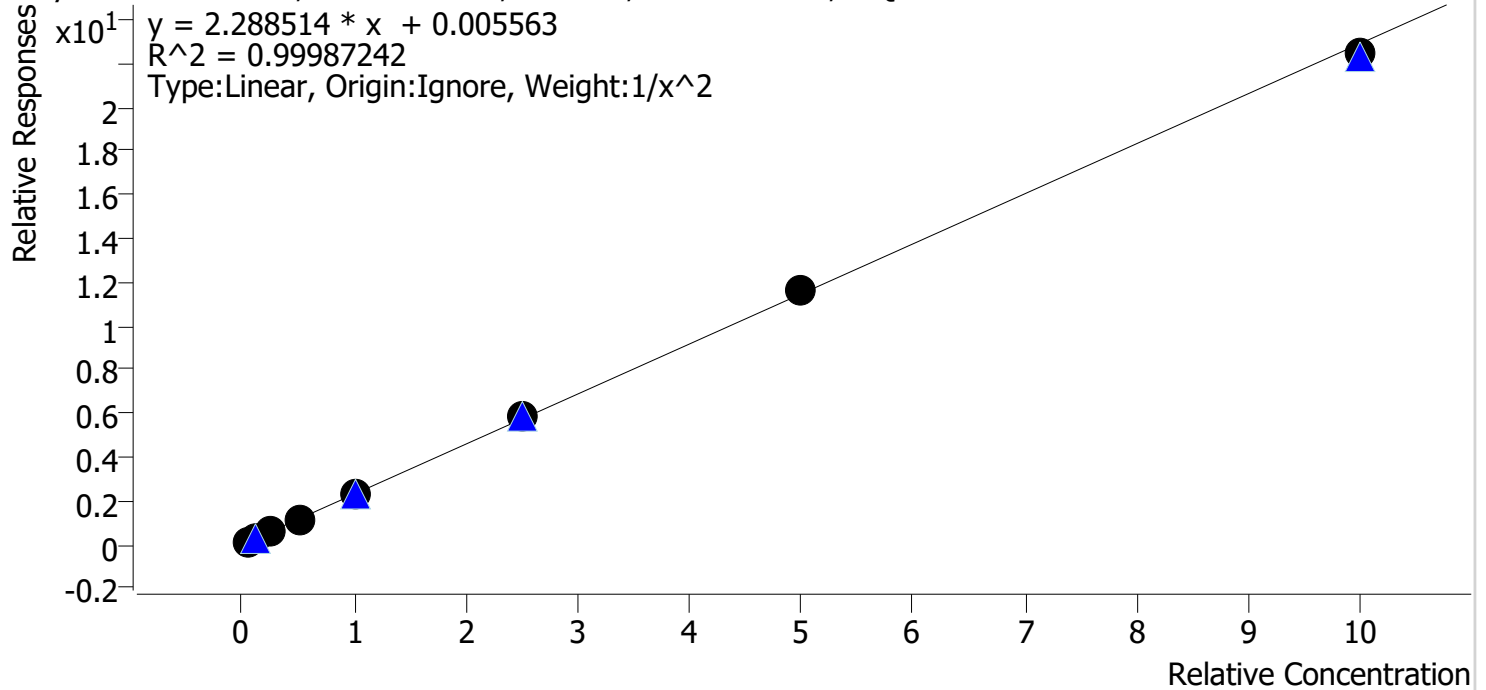
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.6
cal 2	2	✓	10.0	10.0	99.5
cal 3	3	✓	25.0	24.5	98.1
cal 4	4	✓	50.0	48.8	97.5
cal 5	5	✓	100.0	96.1	96.1
cal 6	6	✓	250.0	251.9	100.7
cal 7	7	✓	500.0	491.2	98.2
cal 8	8	✓	1000.0	1012.2	101.2

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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



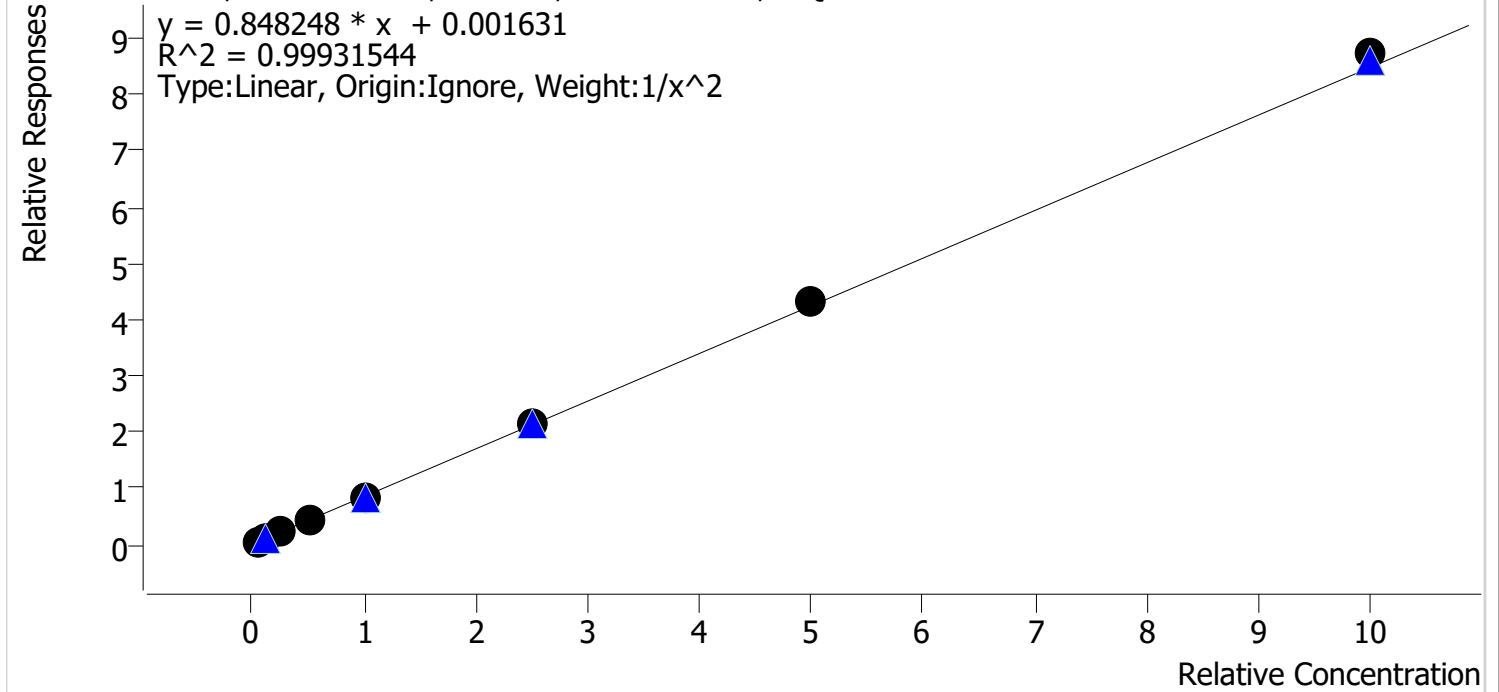
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	24.9	99.5
cal 4	4	✓	50.0	50.4	100.8
cal 5	5	✓	100.0	99.7	99.7
cal 6	6	✓	250.0	252.4	100.9
cal 7	7	✓	500.0	504.4	100.9
cal 8	8	✓	1000.0	980.0	98.0

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.5
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	24.1	96.3
cal 4	4	✓	50.0	51.0	101.9
cal 5	5	✓	100.0	97.2	97.2
cal 6	6	✓	250.0	248.8	99.5
cal 7	7	✓	500.0	506.6	101.3
cal 8	8	✓	1000.0	1029.1	102.9

*BW*

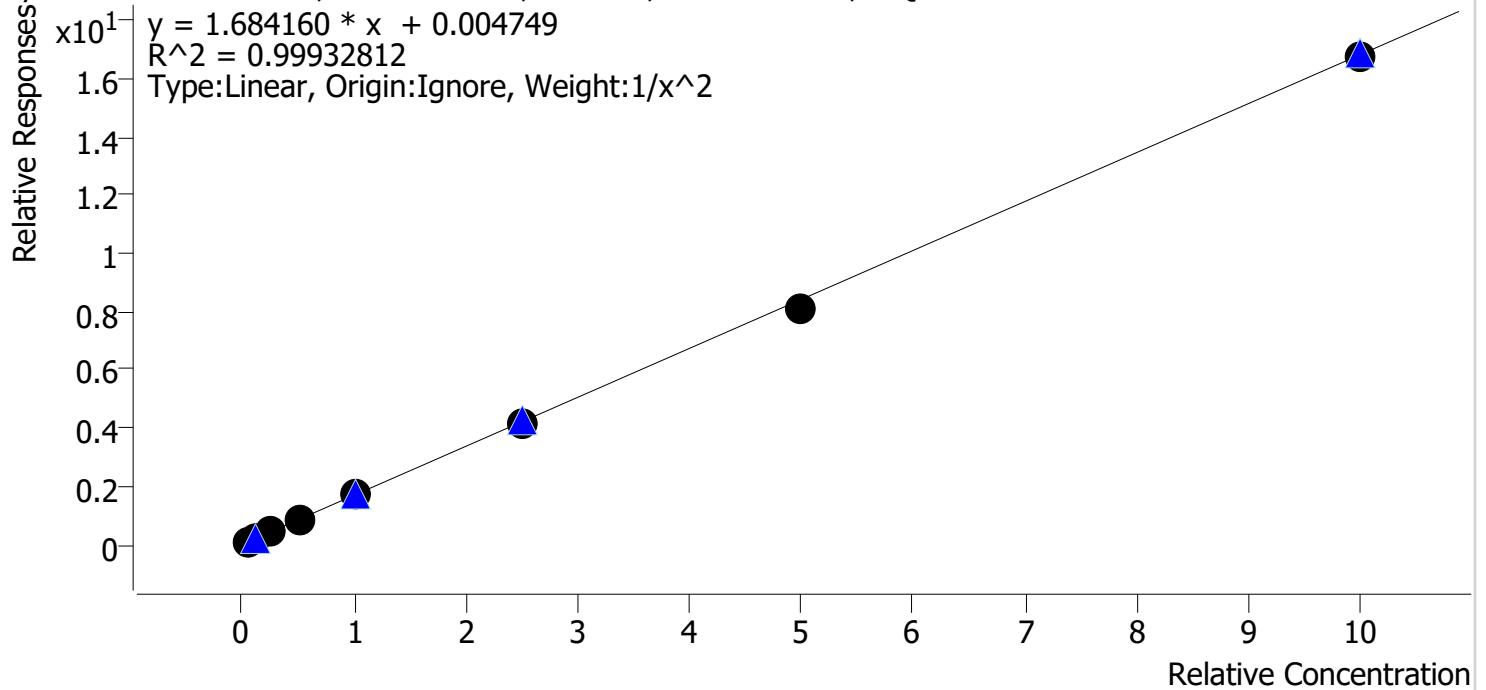




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

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



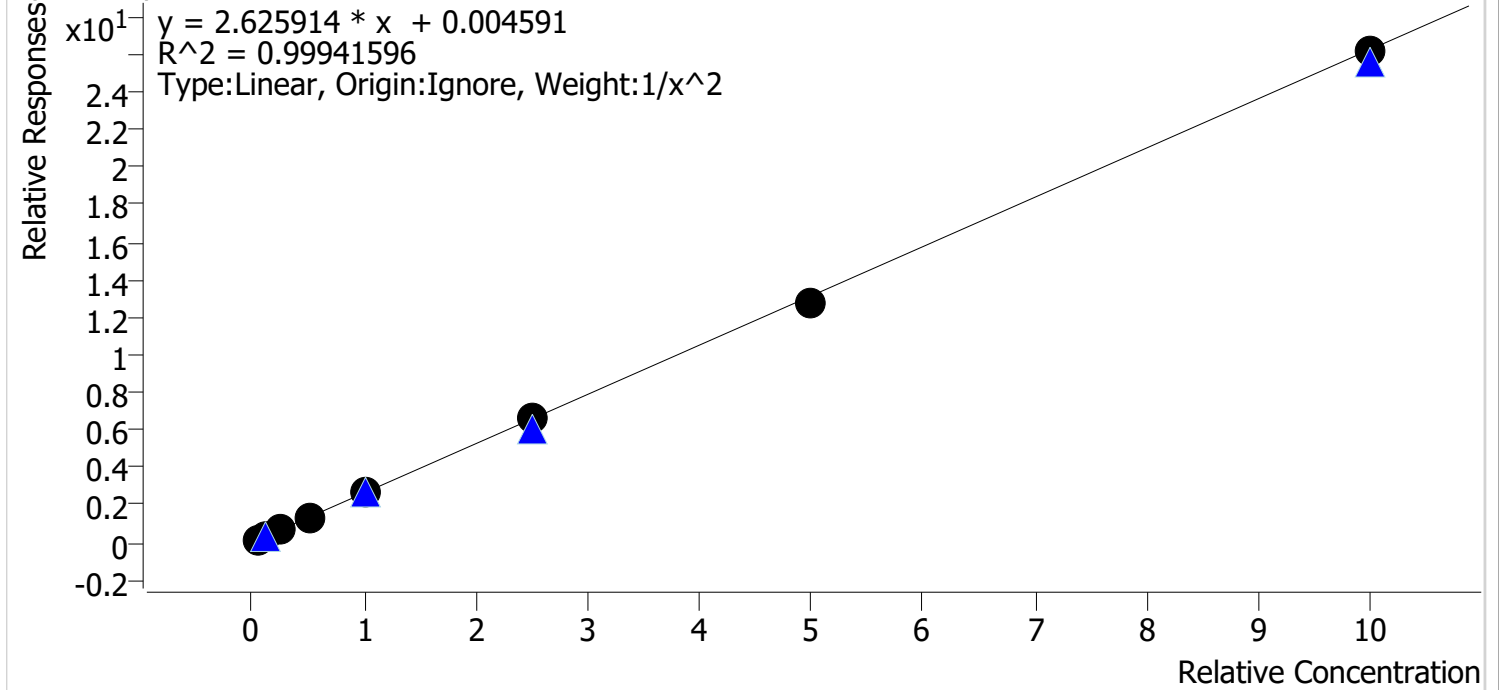
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.3
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	25.2	100.6
cal 4	4	✓	50.0	52.0	103.9
cal 5	5	✓	100.0	101.2	101.2
cal 6	6	✓	250.0	247.8	99.1
cal 7	7	✓	500.0	479.5	95.9
cal 8	8	✓	1000.0	995.7	99.6

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

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



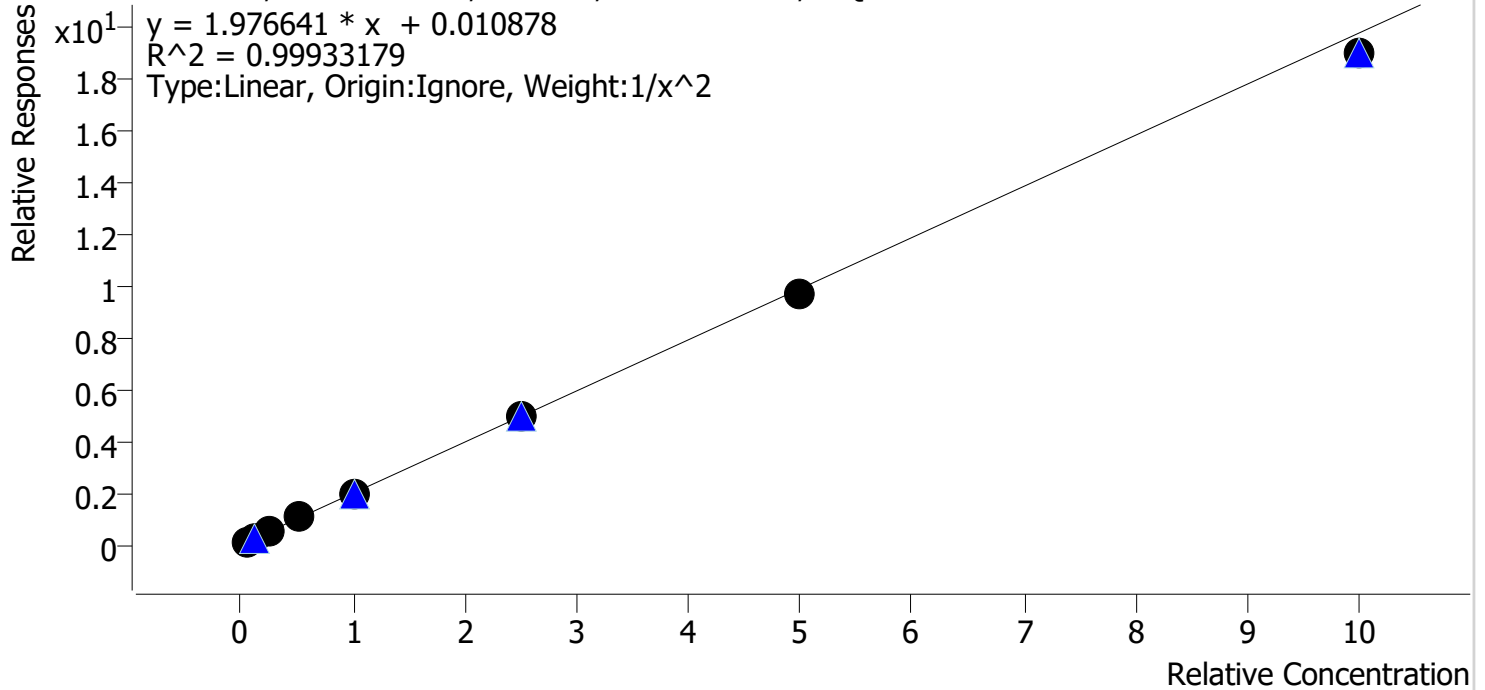
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.7
cal 2	2	✓	10.0	9.9	98.9
cal 3	3	✓	25.0	25.9	103.7
cal 4	4	✓	50.0	51.2	102.5
cal 5	5	✓	100.0	98.7	98.7
cal 6	6	✓	250.0	249.3	99.7
cal 7	7	✓	500.0	486.6	97.3
cal 8	8	✓	1000.0	995.7	99.6

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**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	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	9.8	98.3
cal 3	3	✓	25.0	25.3	101.1
cal 4	4	✓	50.0	51.5	103.1
cal 5	5	✓	100.0	101.2	101.2
cal 6	6	✓	250.0	253.5	101.4
cal 7	7	✓	500.0	493.2	98.6
cal 8	8	✓	1000.0	959.6	96.0

*BW*



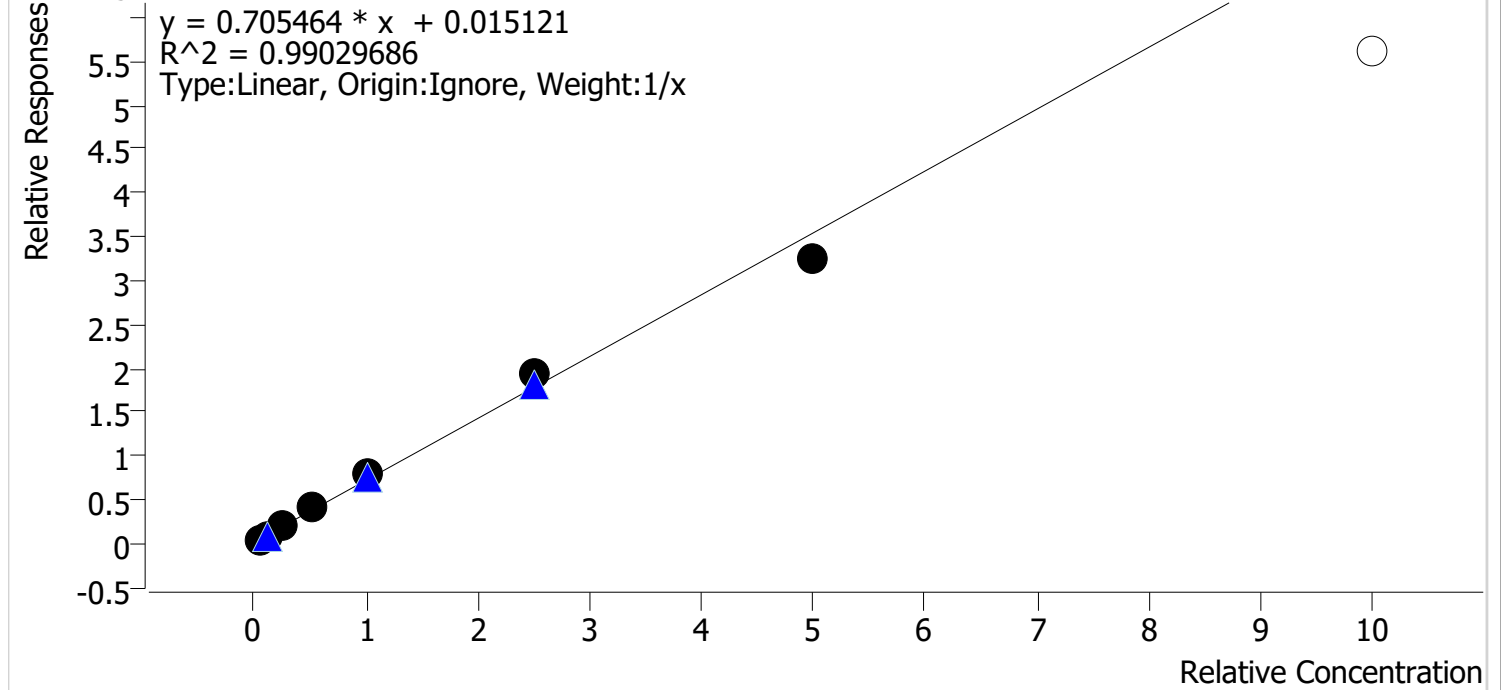


# Compound Calibration Report

**Batch results**      D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update**    12/11/2019 2:14 PM  
**Analyst Name**        ISP\datastor  
**Analyte**                Lamotrigine

**Internal Standard**      Carisoprodol-D7

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



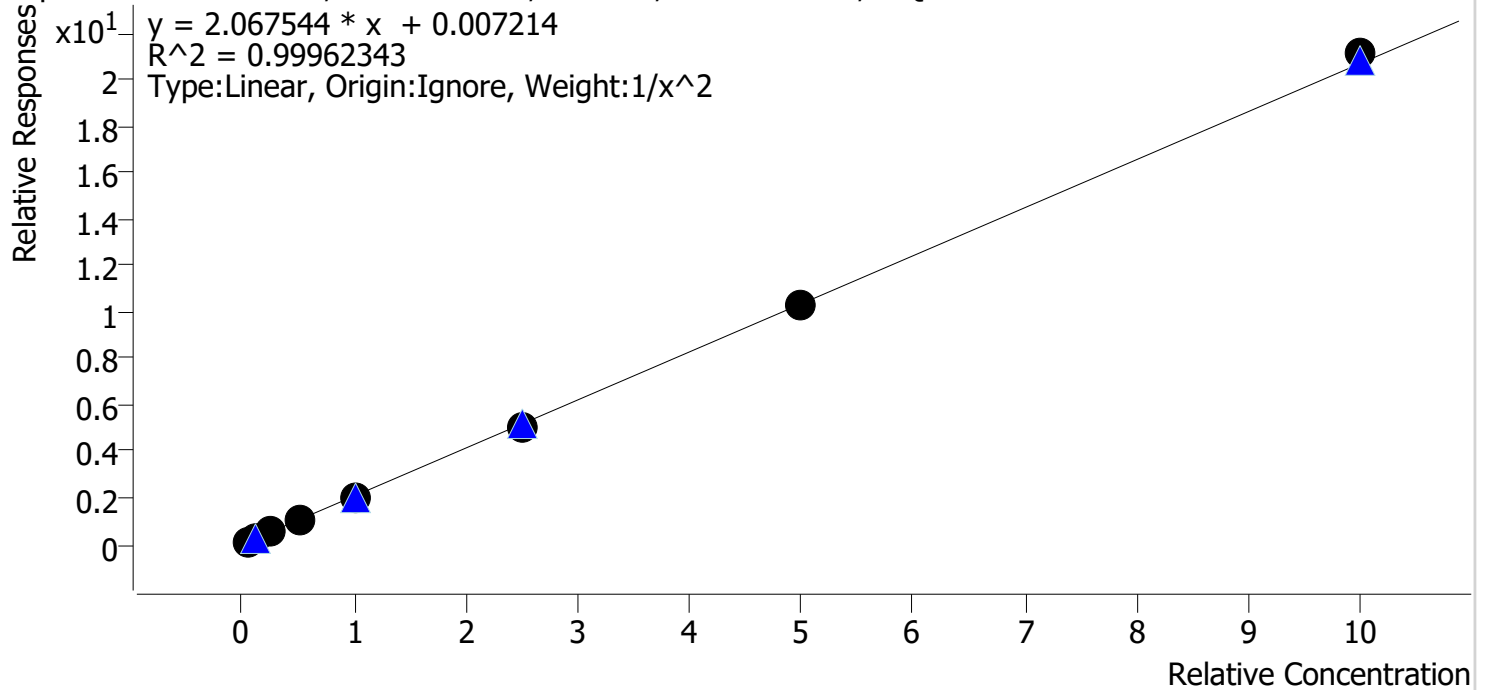
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	3.7	74.3
cal 2	2	✓	10.0	9.3	93.2
cal 3	3	✓	25.0	27.0	107.8
cal 4	4	✓	50.0	56.6	113.2
cal 5	5	✓	100.0	110.1	110.1
cal 6	6	✓	250.0	273.7	109.5
cal 7	7	✓	500.0	459.6	91.9
cal 8	8	✗	1000.0	793.2	79.3

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**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	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	9.9	99.2
cal 3	3	✓	25.0	25.0	99.9
cal 4	4	✓	50.0	51.4	102.9
cal 5	5	✓	100.0	98.5	98.5
cal 6	6	✓	250.0	245.4	98.1
cal 7	7	✓	500.0	495.2	99.0
cal 8	8	✓	1000.0	1020.6	102.1

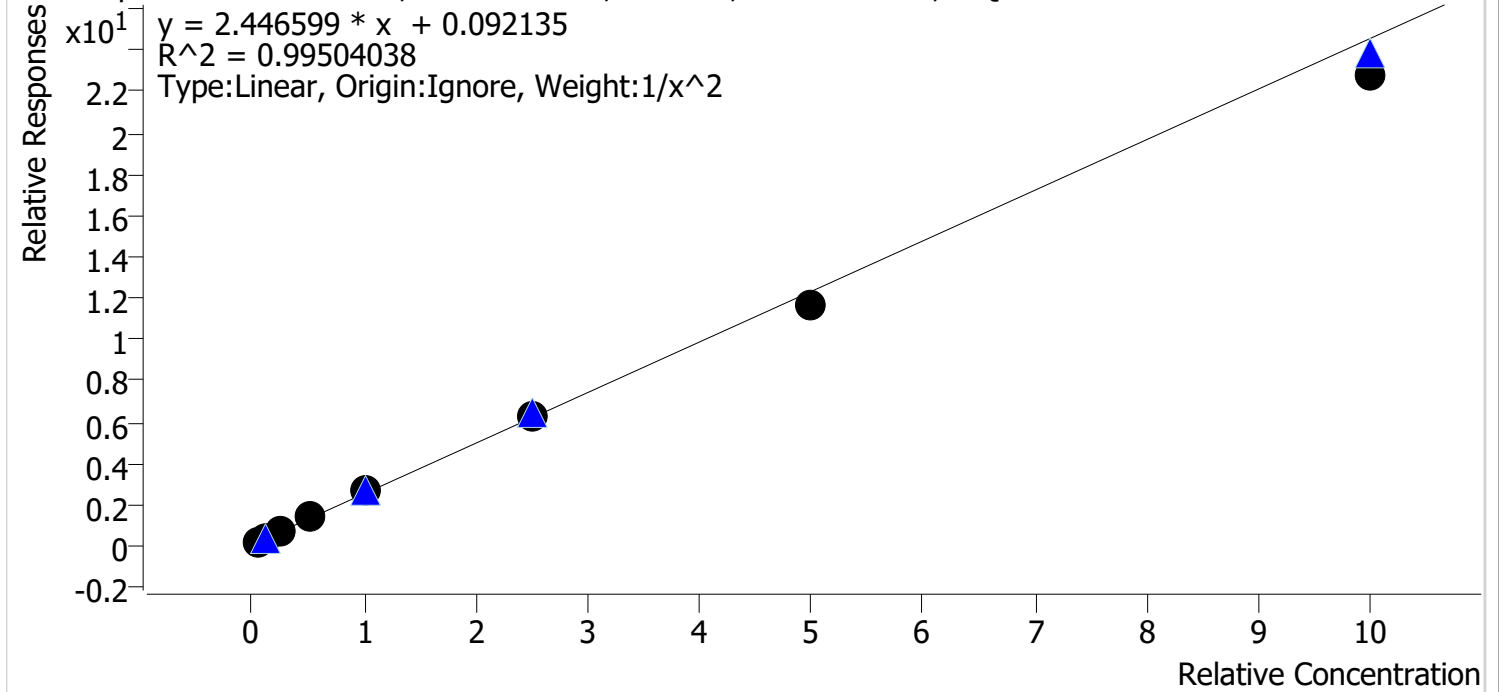
*BW*



# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	12/11/2019 2:14 PM		
<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, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.5
cal 2	2	✓	10.0	9.2	91.5
cal 3	3	✓	25.0	26.1	104.3
cal 4	4	✓	50.0	53.5	107.1
cal 5	5	✓	100.0	104.9	104.9
cal 6	6	✓	250.0	256.5	102.6
cal 7	7	✓	500.0	471.1	94.2
cal 8	8	✓	1000.0	928.4	92.8

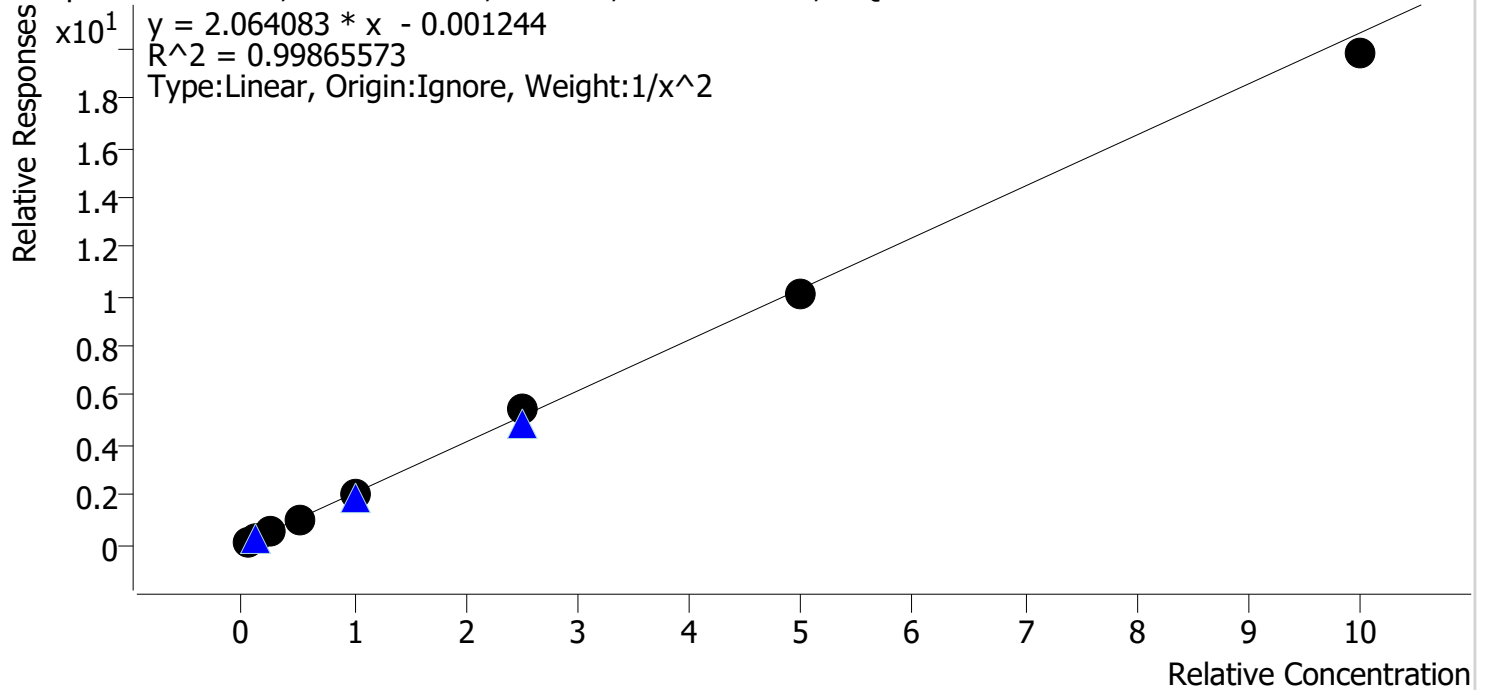
*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol

**Internal Standard** Carisoprodol-D7

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



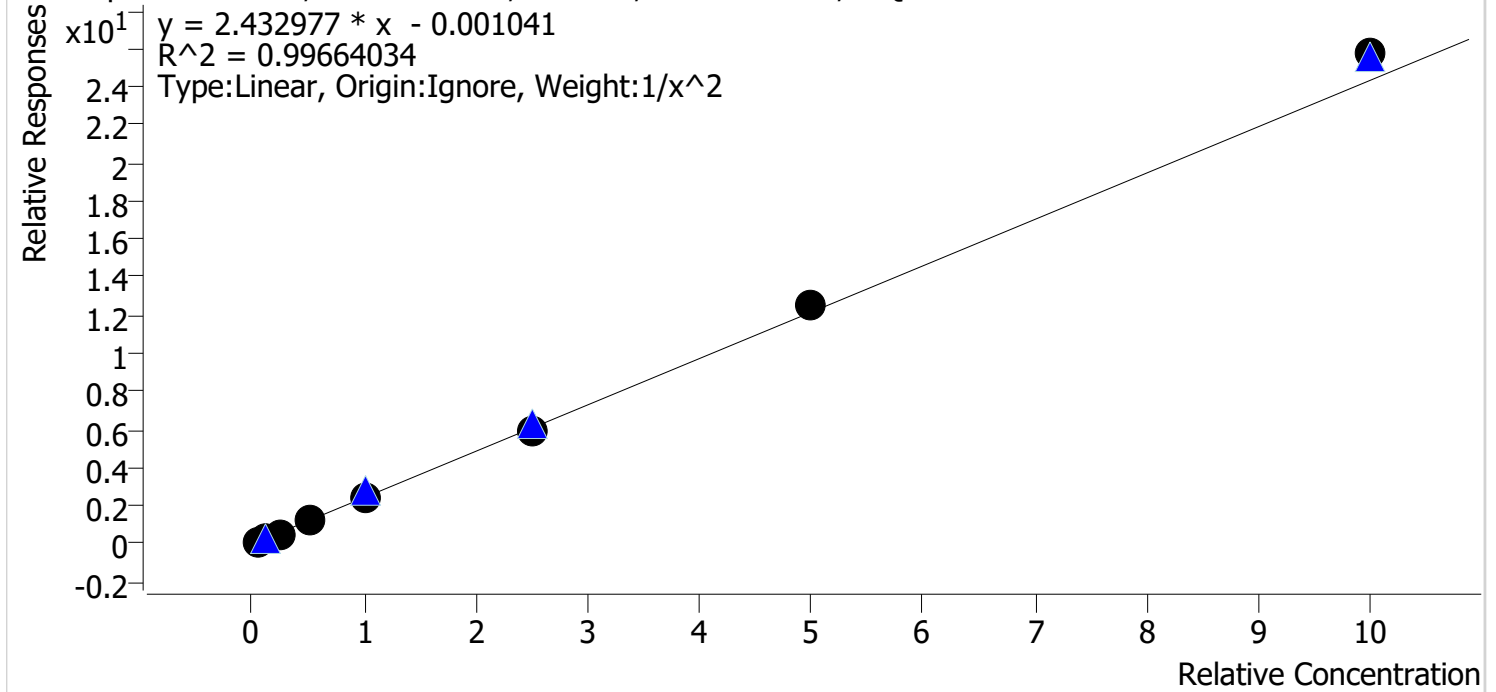
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.2
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	24.7	98.9
cal 4	4	✓	50.0	50.8	101.5
cal 5	5	✓	100.0	100.4	100.4
cal 6	6	✓	250.0	265.8	106.3
cal 7	7	✓	500.0	491.0	98.2
cal 8	8	✓	1000.0	959.4	95.9

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** Methadone-D9

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



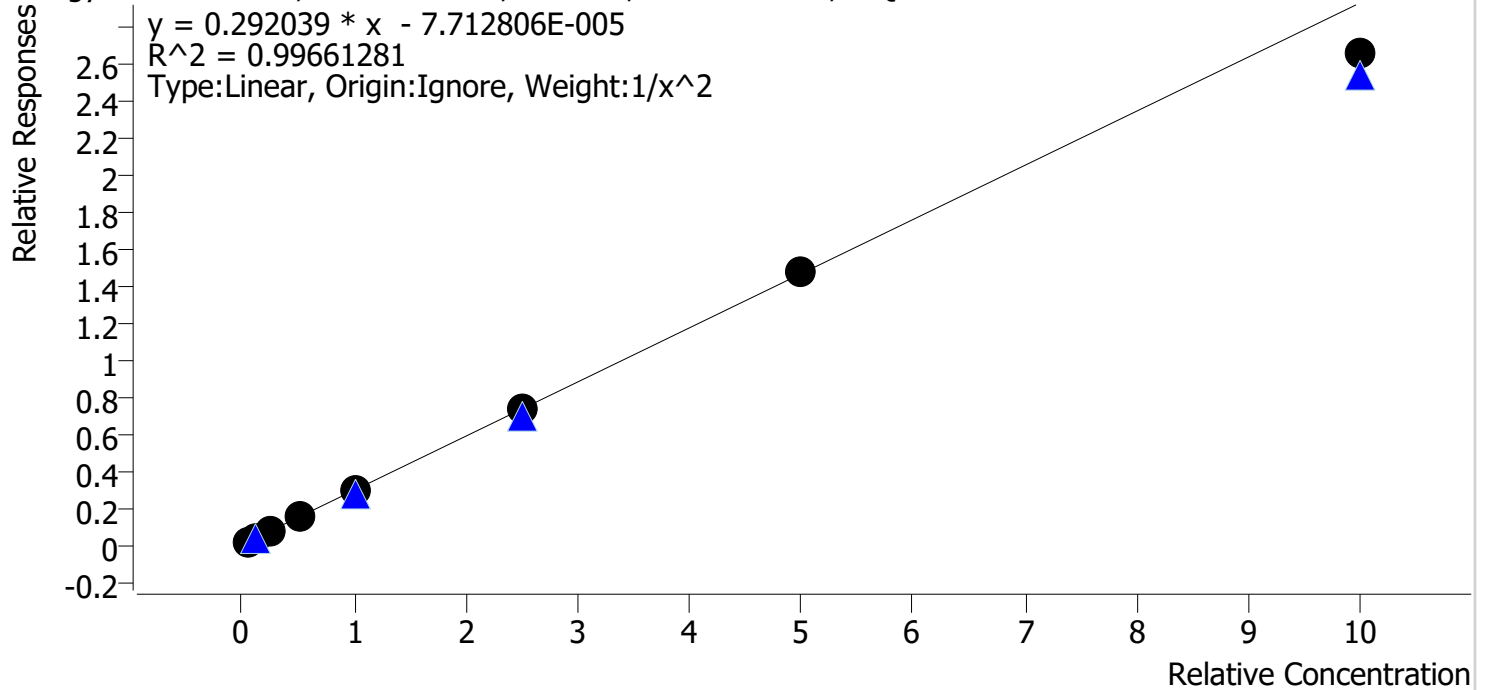
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.7
cal 2	2	✓	10.0	10.8	108.0
cal 3	3	✓	25.0	23.4	93.7
cal 4	4	✓	50.0	48.5	96.9
cal 5	5	✓	100.0	96.9	96.9
cal 6	6	✓	250.0	244.2	97.7
cal 7	7	✓	500.0	516.5	103.3
cal 8	8	✓	1000.0	1057.7	105.8

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.6
cal 2	2	✓	10.0	9.8	97.8
cal 3	3	✓	25.0	26.0	103.9
cal 4	4	✓	50.0	54.2	108.3
cal 5	5	✓	100.0	99.0	99.0
cal 6	6	✓	250.0	251.9	100.8
cal 7	7	✓	500.0	500.3	100.1
cal 8	8	✓	1000.0	906.3	90.6

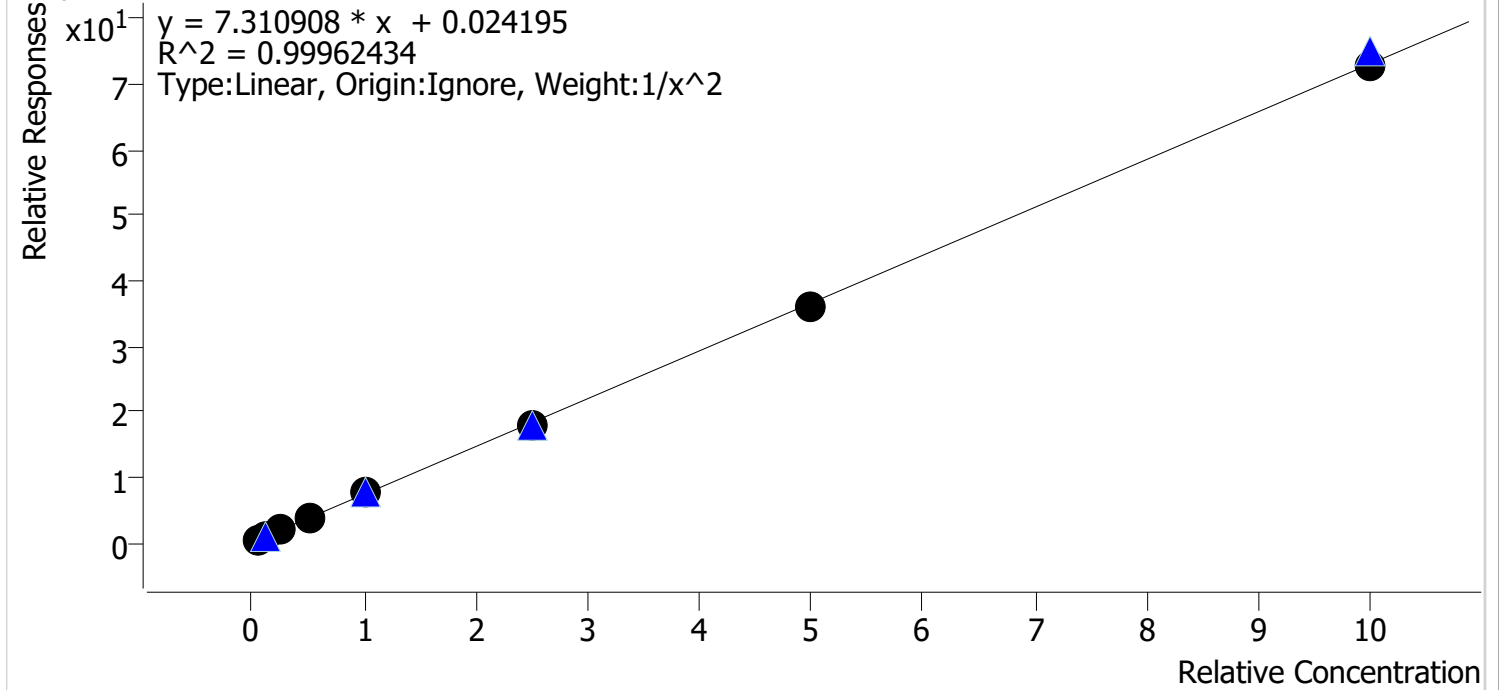
*BW*



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

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



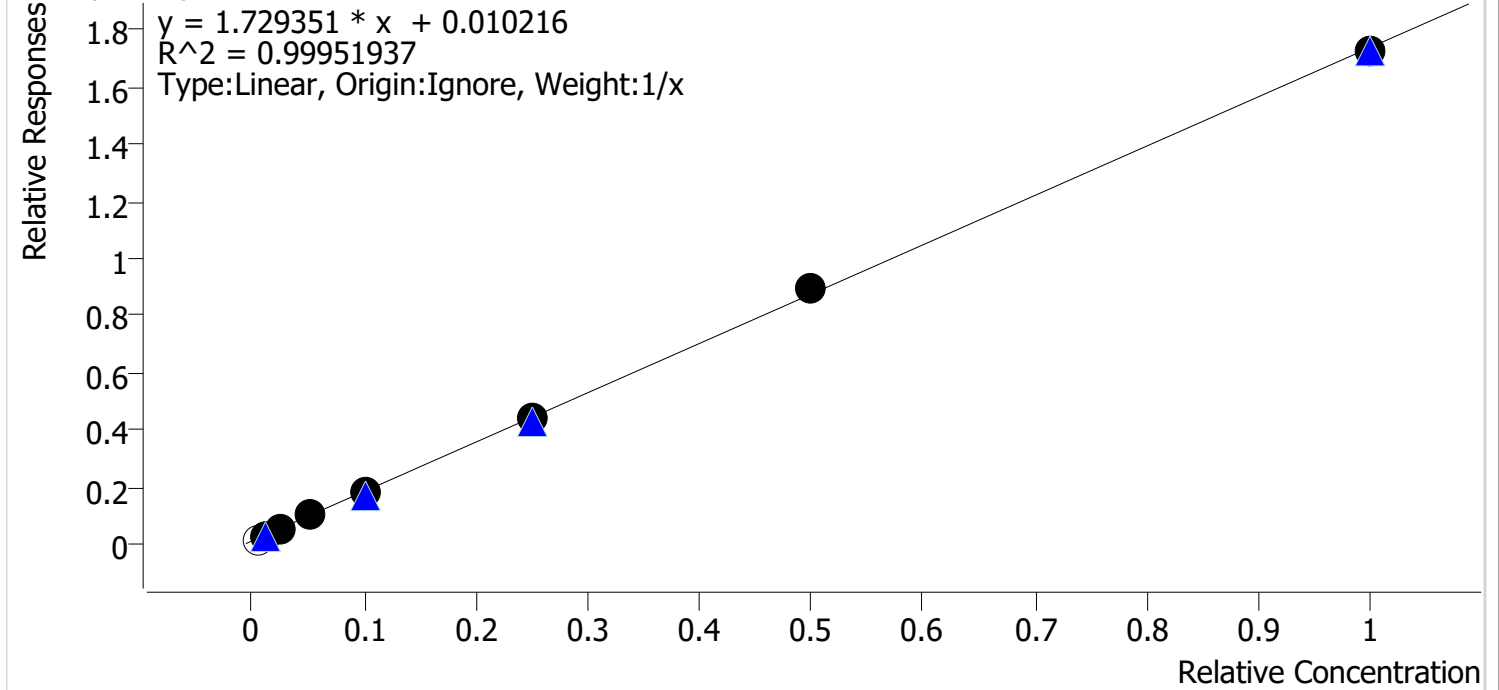
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	9.9	99.0
cal 3	3	✓	25.0	24.7	98.8
cal 4	4	✓	50.0	51.7	103.5
cal 5	5	✓	100.0	101.2	101.2
cal 6	6	✓	250.0	247.3	98.9
cal 7	7	✓	500.0	492.0	98.4
cal 8	8	✓	1000.0	997.9	99.8

*BW*

# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	12/11/2019 2:14 PM		
<b>Analyst Name</b>	ISP\datastor		
<b>Analyte</b>	Norbuprenorphine	<b>Internal Standard</b>	Norbuprenorphine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	0.5	0.2	41.5
cal 2	2	✓	1.0	1.0	97.5
cal 3	3	✓	2.5	2.4	96.0
cal 4	4	✓	5.0	5.4	108.6
cal 5	5	✓	10.0	9.7	96.7
cal 6	6	✓	25.0	25.1	100.4
cal 7	7	✓	50.0	50.9	101.8
cal 8	8	✓	100.0	99.0	99.0

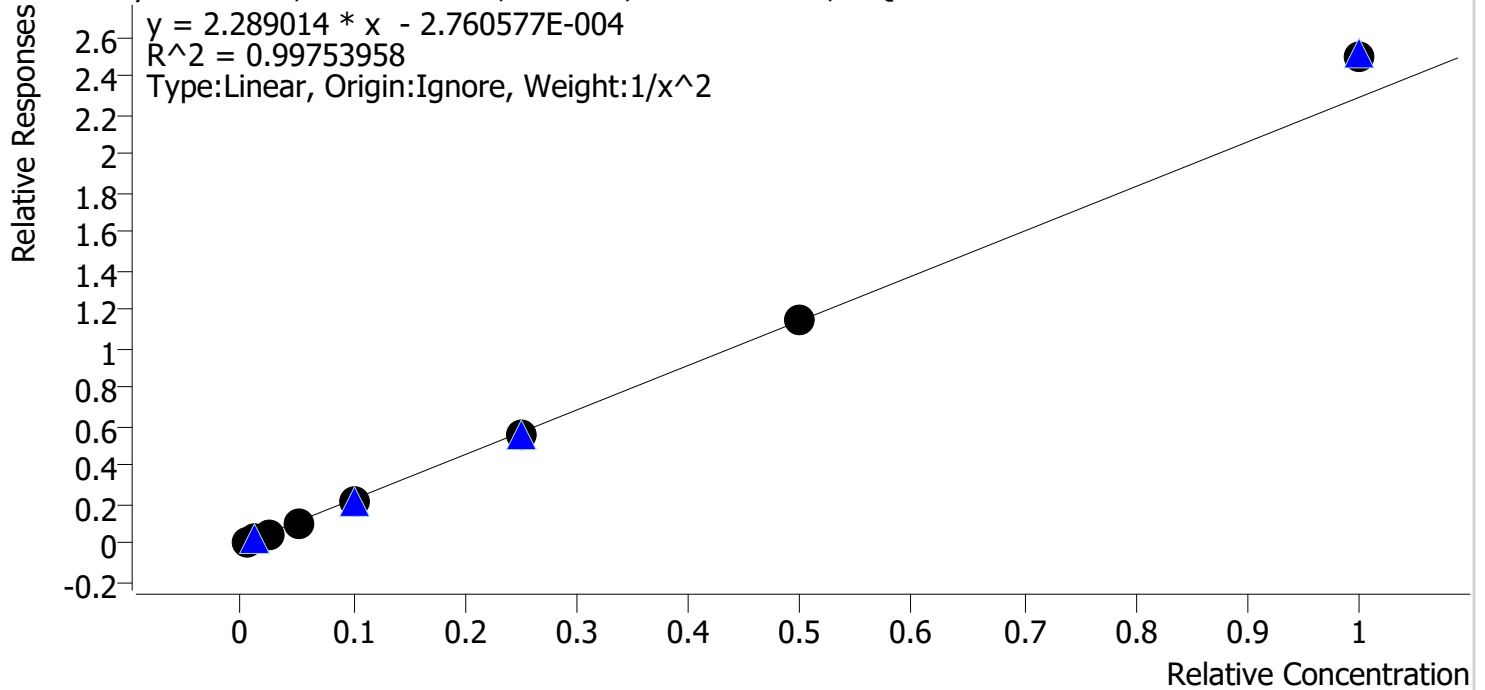
BW



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	101.7
cal 2	2	✓	1.0	1.0	99.3
cal 3	3	✓	2.5	2.4	95.6
cal 4	4	✓	5.0	4.8	96.9
cal 5	5	✓	10.0	9.7	96.9
cal 6	6	✓	25.0	24.8	99.4
cal 7	7	✓	50.0	50.5	101.0
cal 8	8	✓	100.0	109.3	109.3

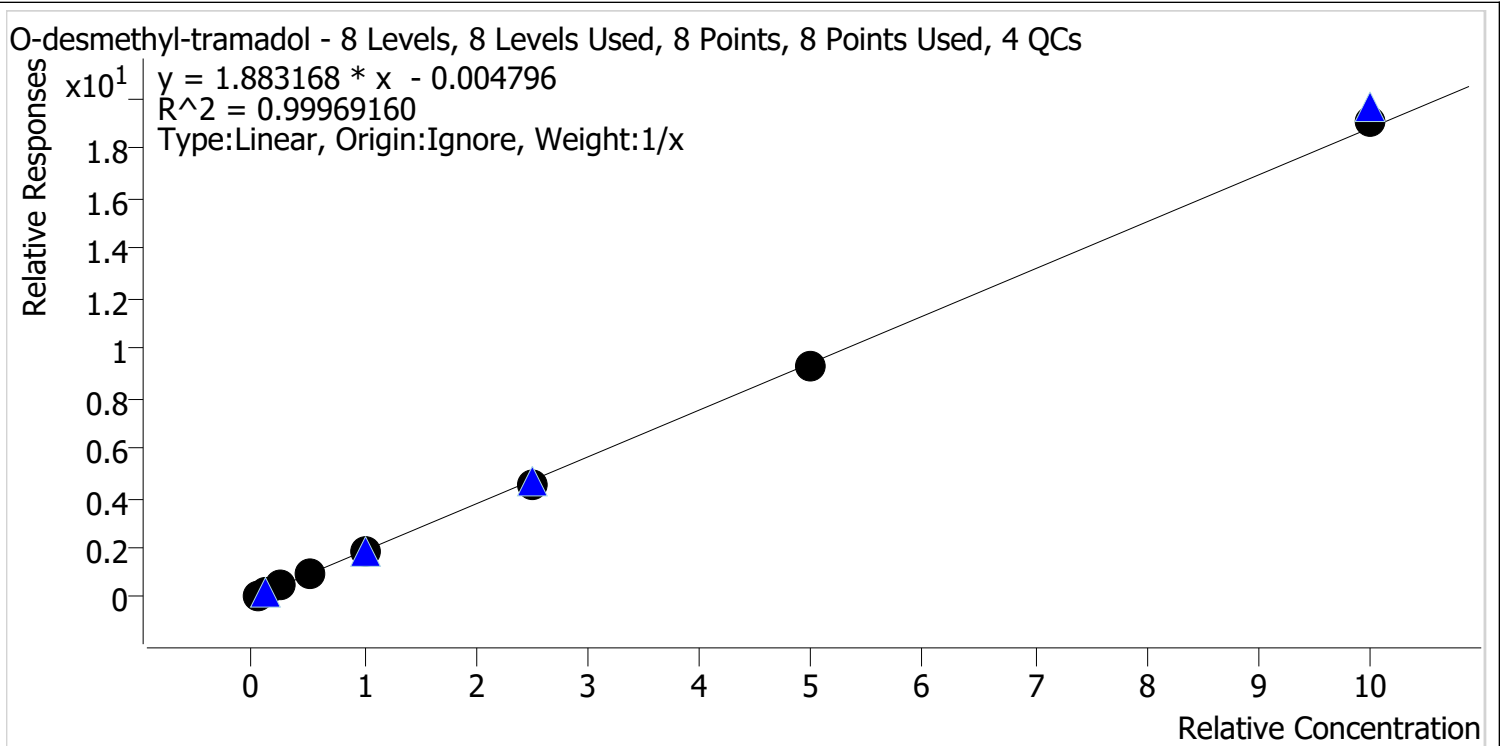
*BW*





# Compound Calibration Report

<b>Batch results</b>	D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin		
<b>Last Cal. Update</b>	12/11/2019 2:14 PM		
<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	1	✓	5.0	5.4	107.4
cal 2	2	✓	10.0	10.1	100.7
cal 3	3	✓	25.0	24.6	98.3
cal 4	4	✓	50.0	49.3	98.6
cal 5	5	✓	100.0	97.1	97.1
cal 6	6	✓	250.0	243.7	97.5
cal 7	7	✓	500.0	495.3	99.1
cal 8	8	✓	1000.0	1014.6	101.5



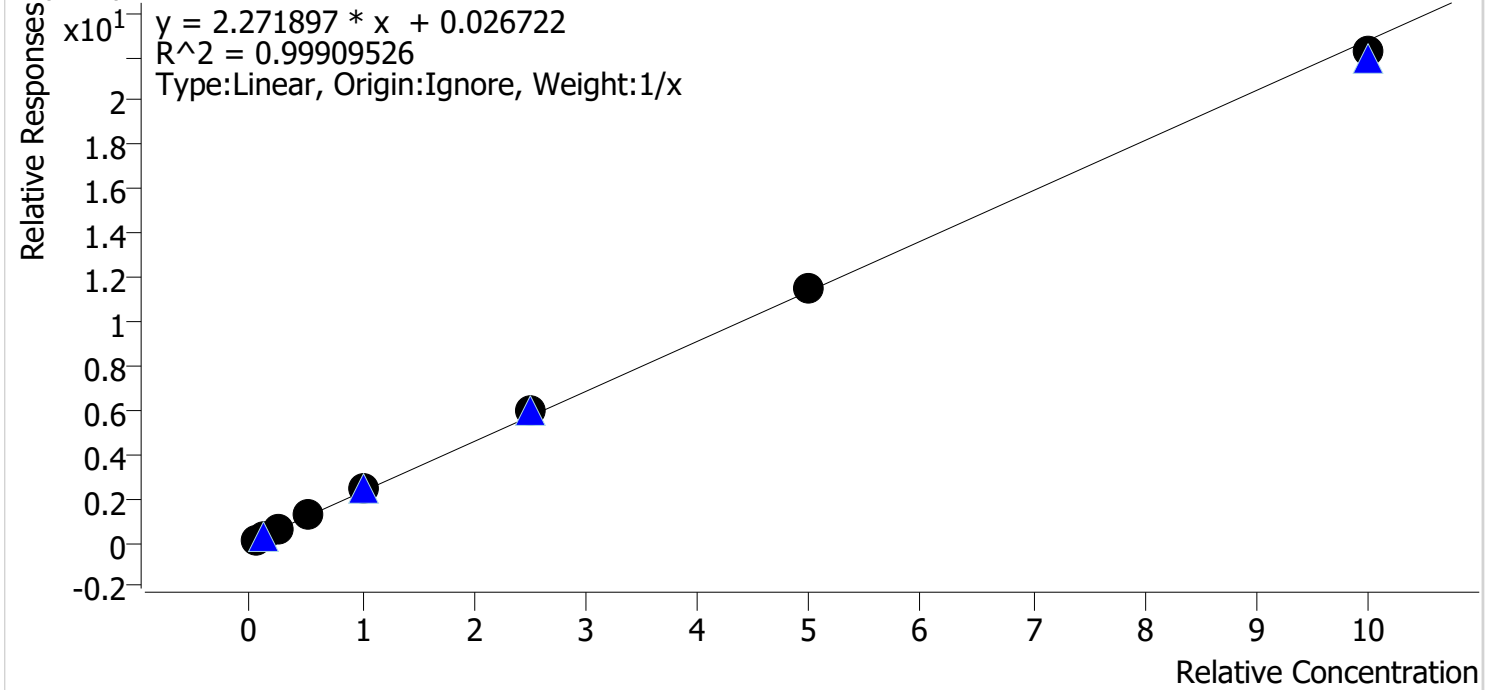




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

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

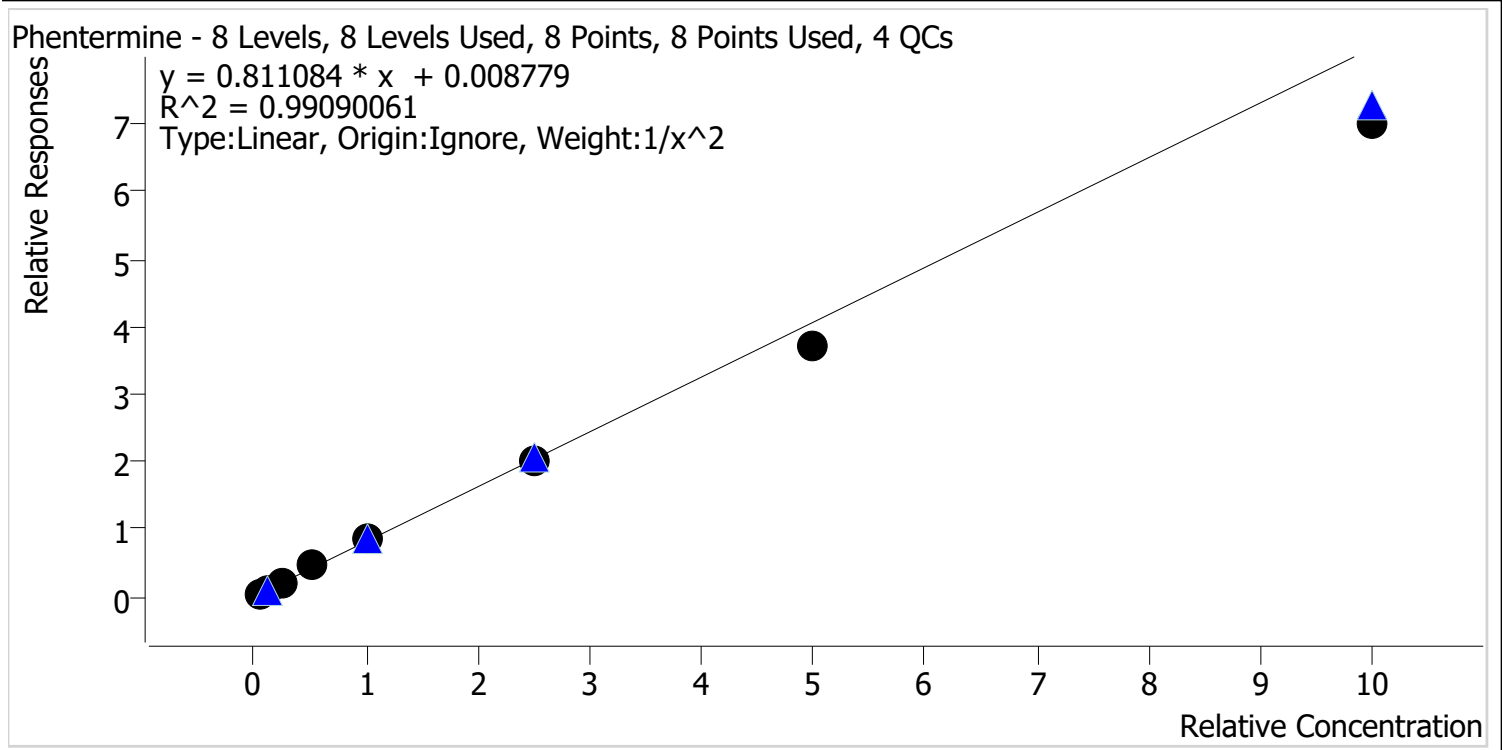


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.4	87.7
cal 2	2	✓	10.0	9.5	95.2
cal 3	3	✓	25.0	25.7	102.9
cal 4	4	✓	50.0	53.1	106.2
cal 5	5	✓	100.0	105.1	105.1
cal 6	6	✓	250.0	261.2	104.5
cal 7	7	✓	500.0	503.4	100.7
cal 8	8	✓	1000.0	977.5	97.8

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.9
cal 2	2	✓	10.0	10.1	100.8
cal 3	3	✓	25.0	26.8	107.4
cal 4	4	✓	50.0	55.4	110.9
cal 5	5	✓	100.0	106.3	106.3
cal 6	6	✓	250.0	250.0	100.0
cal 7	7	✓	500.0	457.0	91.4
cal 8	8	✓	1000.0	863.3	86.3

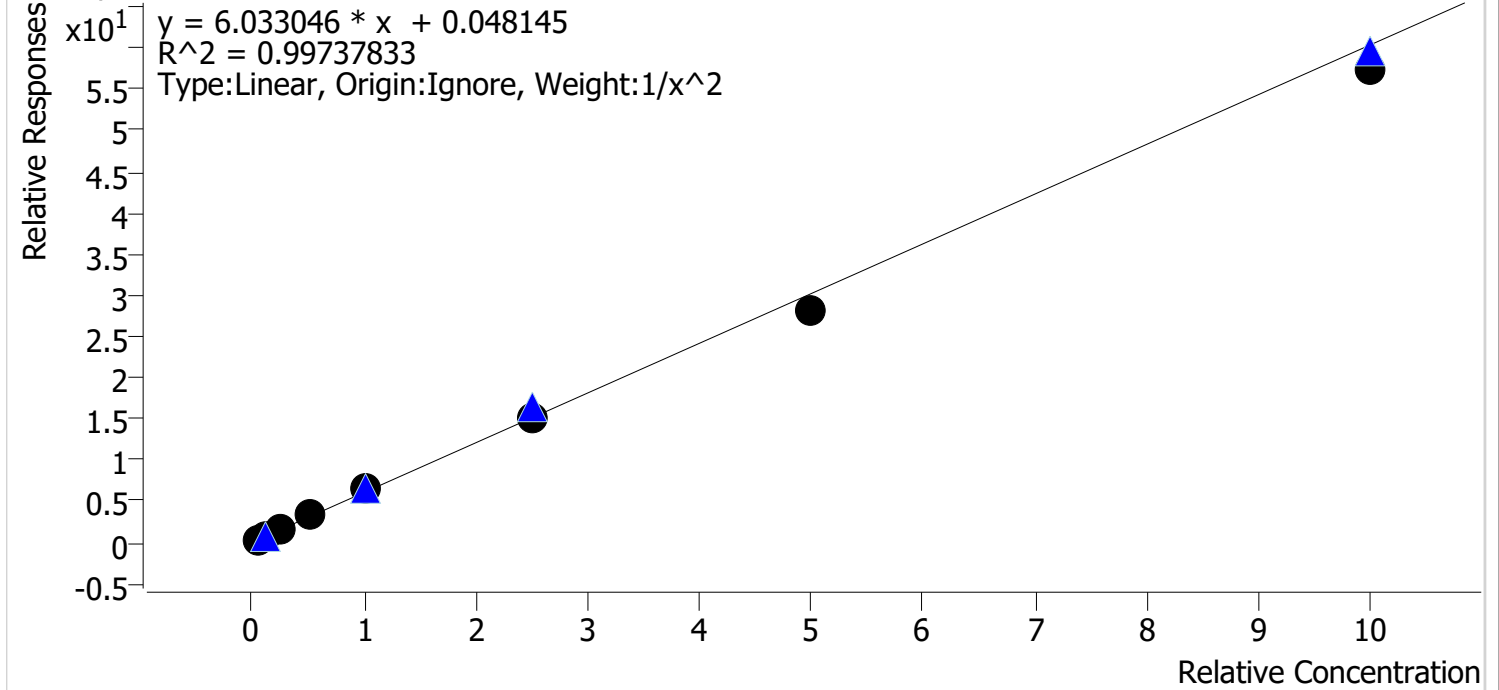
*BW*



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.1
cal 2	2	✓	10.0	10.4	103.6
cal 3	3	✓	25.0	25.7	102.7
cal 4	4	✓	50.0	52.1	104.3
cal 5	5	✓	100.0	105.0	105.0
cal 6	6	✓	250.0	246.7	98.7
cal 7	7	✓	500.0	468.2	93.6
cal 8	8	✓	1000.0	950.4	95.0

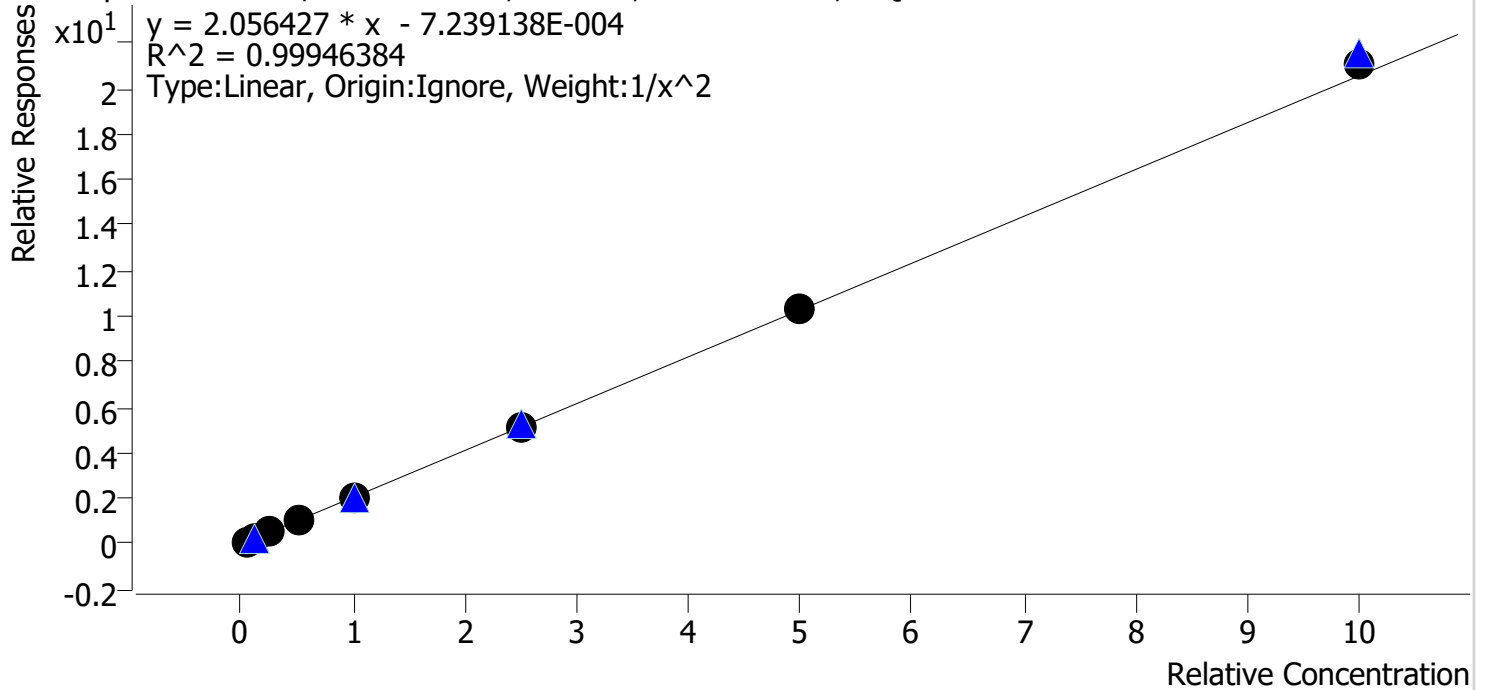
*BW*



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5

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



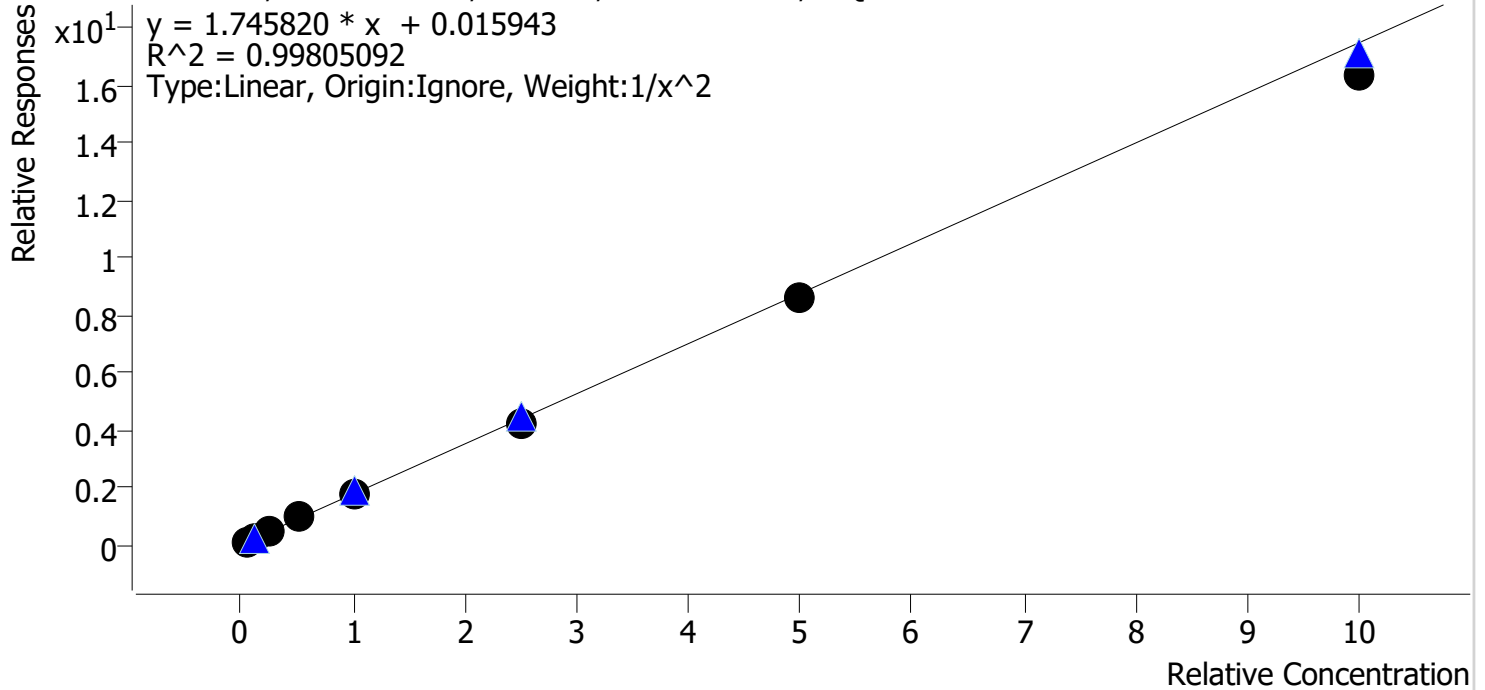
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	24.7	98.6
cal 4	4	✓	50.0	51.3	102.5
cal 5	5	✓	100.0	96.8	96.8
cal 6	6	✓	250.0	246.4	98.6
cal 7	7	✓	500.0	504.0	100.8
cal 8	8	✓	1000.0	1026.5	102.7

*BW*

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**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	1	✓	5.0	4.9	97.7
cal 2	2	✓	10.0	10.2	102.2
cal 3	3	✓	25.0	25.9	103.4
cal 4	4	✓	50.0	52.7	105.5
cal 5	5	✓	100.0	101.5	101.5
cal 6	6	✓	250.0	242.7	97.1
cal 7	7	✓	500.0	495.0	99.0
cal 8	8	✓	1000.0	936.8	93.7

*BW*



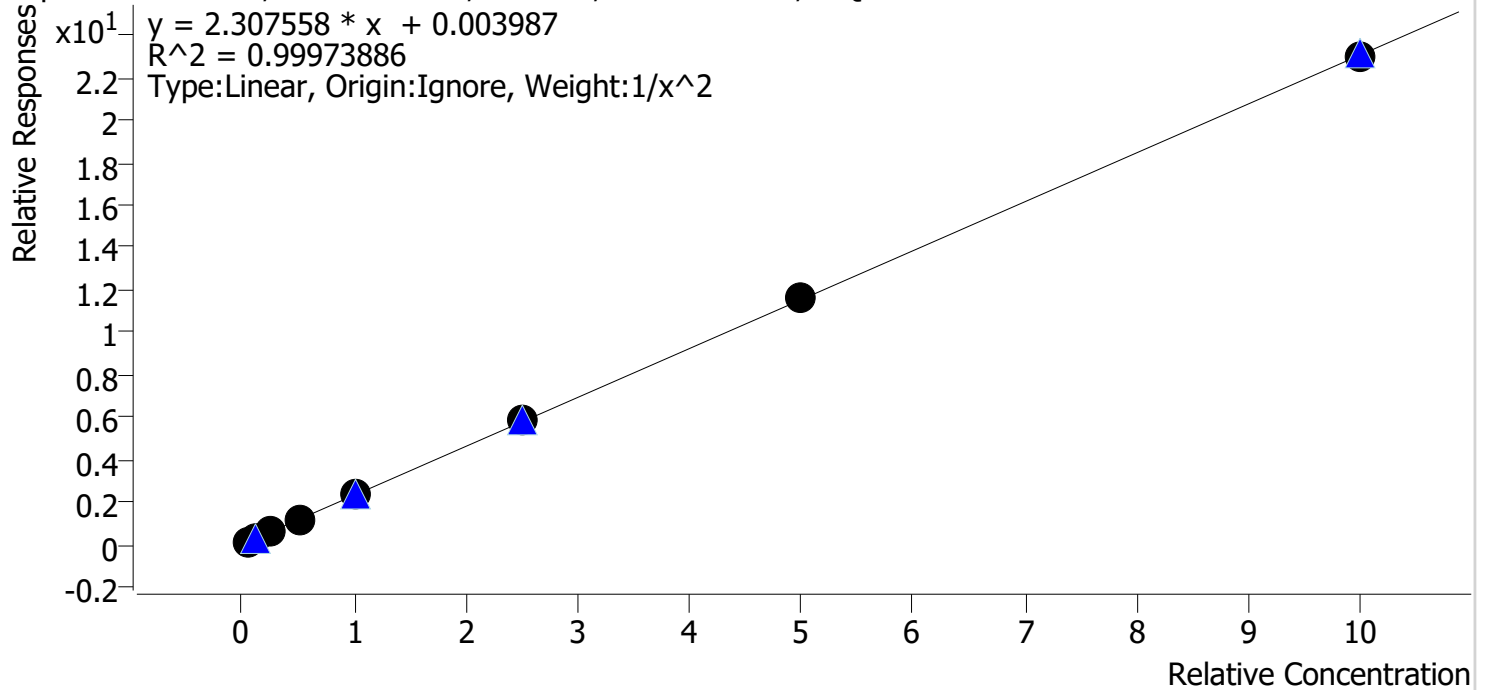




# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Last Cal. Update** 12/11/2019 2:14 PM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	10.0	100.1
cal 3	3	✓	25.0	24.3	97.0
cal 4	4	✓	50.0	50.9	101.9
cal 5	5	✓	100.0	100.0	100.0
cal 6	6	✓	250.0	252.5	101.0
cal 7	7	✓	500.0	500.8	100.2
cal 8	8	✓	1000.0	994.7	99.5

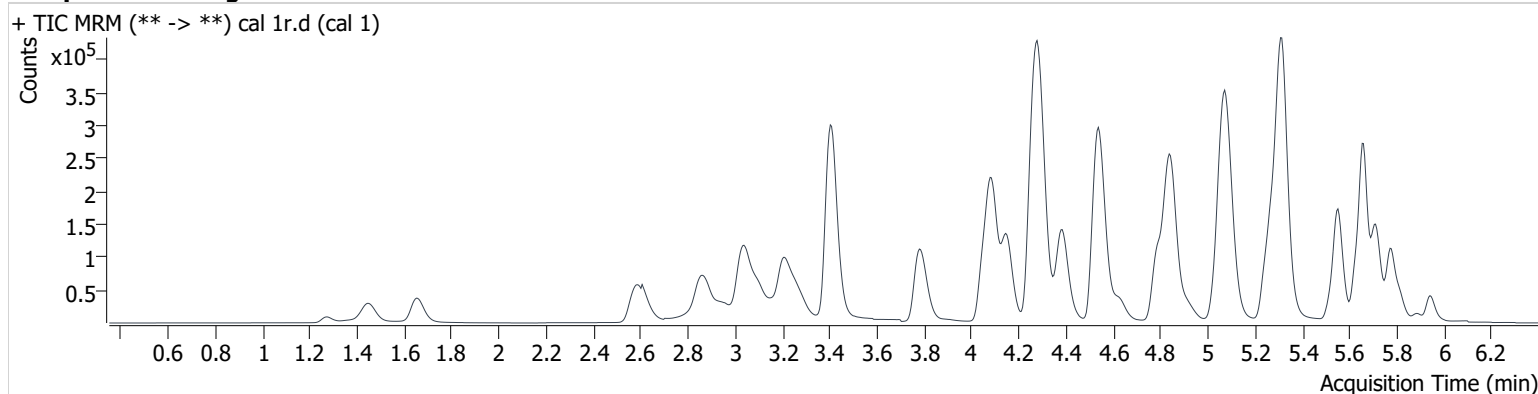
*BW*

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

**Instrument** 69679 **Data File** cal 1r.d  
**Type** Cal **Sample** cal 1  
**Acq. Method** mdq p1 cda 121818.m **Operator** Brittany Wylie  
**Sample Position** P2-A1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 12/9/2019 8:29:35 PM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	996	181.8	77.0	866.8	59734	0.512 ng/ml
7-aminoclonazepam	4.292	14882	11711.0	85.1	96.8	118971	4.831 ng/ml
a-hydroxyalprazolam	5.704	734	833.6	56.1	160.5	6072	5.386 ng/ml
alpha-PVP	4.392	46183	2416.2	53.1	572.2	393528	5.277 ng/ml
Alprazolam	5.777	13298	1220.0	110.4	2287.3	93440	5.045 ng/ml
Amphetamine	3.112	69555	319.1	56.3	503.3	262221	4.758 ng/ml
Benzoylcegonine	3.926	1121	1714.0	9.3	40.2	7178	5.924 ng/ml
<b>Buprenorphine</b>	<b>5.678</b>	<b>559</b>	<b>277.1</b>	<b>15.4</b>	<b>92.5</b>	<b>34249</b>	<b>0.720 ng/ml *</b>
Bupropion	4.809	48529	217.9	55.8	6740.4	356574	4.995 ng/ml
Carisoprodol	5.728	10372	8740.1	58.9	26.8	96085	4.971 ng/ml
Citalopram	5.251	32410	3426.6	45.2	14117.3	267202	5.120 ng/ml
Clonazepam	5.622	2019	155.4	31.0	792.2	6925	4.878 ng/ml
Cocaine	4.291	40141	41630.5	45.8	1255.1	625849	5.103 ng/ml
Codeine	2.638	6131	760.3	105.9	7250.5	59977	4.927 ng/ml
Cyclobenzaprine	5.630	26195	27822.0	9.6	101.2	197528	5.090 ng/ml
Dextromethorphan	5.295	19028	18018.3	71.8	15146.6	174209	5.036 ng/ml
Dextrorphan	4.151	15273	54.2	214.8	40313.3	337693	4.953 ng/ml
Diazepam	5.947	8728	9418.4	83.3	1040.0	83537	5.055 ng/ml
Dihydrocodeine	2.611	16574	201.6	63.3	424.8	180785	4.811 ng/ml
Diphenhydramine	5.321	89492	1646.0	35.0	25897.1	977329	5.429 ng/ml
Doxylamine	4.553	112526	5028.8	96.2	1902.1	938986	4.993 ng/ml
EDDP	5.290	14077	15902.6	231.9	33381.7	318033	5.026 ng/ml
Fentanyl	5.107	2586	1864.0	73.3	188.5	273951	0.515 ng/ml
Fluoxetine	5.710	26609	19202.4	8.7	1821.5	214931	4.800 ng/ml
Hydrocodone	3.063	17114	416.2	37.6	92.2	193626	4.966 ng/ml
Hydromorphone	1.663	16091	255.8	71.7	2894.0	118782	4.984 ng/ml
Ketamine	4.071	38030	10447.0	37.0	332.5	345836	5.013 ng/ml
Lamotrigine	4.314	3971	933.1	88.0	1744.2	96085	3.715 ng/ml
Meprobamate	4.942	6949	6505.9	30.5	781.0	62686	5.013 ng/ml
Methadone	5.659	53433	14198.0	47.0	5477.7	524083	5.400 ng/ml
Methamphetamine	3.274	76443	29.5	36.8	73.8	351492	5.123 ng/ml
Metoprolol	4.354	9914	1772.8	100.5	1634.2	96085	5.059 ng/ml
Mirtazapine	4.630	61736	61516.7	45.8	57900.7	524083	4.885 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mitragynine	5.234	7581	769.6	39.7	40.8	524083	4.979 ng/ml
Morphine	1.282	3130	10207.4	21.4	412.8	8006	5.017 ng/ml
Norbuprenorphine	5.039	82	8.5 <b>Low</b>	84.0	83.1	5972	0.207 ng/ml *
Nordiazepam	5.897	2986	3231.9	65.5	1953.4	20993	4.963 ng/ml
Norfentanyl	4.112	6331	206.3	40.2	48.7	557273	0.508 ng/ml
Norhydrocodone	3.110	836	261.4	41.8	276.0	61049	7.852 ng/ml *
Noroxycodone	2.967	12802	47.8	43.2	228.9	90194	4.900 ng/ml
O-desmethyl-tramadol	3.410	91307	7859.8	6.6	26.8	948311	5.368 ng/ml
Oxazepam	5.768	1084	12.4	97.6 <b>High</b>	16.0	11319	4.496 ng/ml *
Oxycodone	2.889	32386	517.7	28.7	155.8	305387	4.970 ng/ml
Oxymorphone	1.450	15776	73013.1	45.4	636.2	124902	4.383 ng/ml
Phentermine	3.818	19514	65.9	5.7	54.6	405964	4.844 ng/ml
Promethazine	5.552	39075	9857.4	32.8	1171.9	342860	5.446 ng/ml
Quetiapine	5.534	35620	20234.1	60.6	8462.9	104445	4.855 ng/ml
Sertraline	5.777	13151	14716.5	104.2	11611.8	123407	5.006 ng/ml
Temazepam	5.819	6750	171.3	32.1	36.6	65899	5.016 ng/ml
Tramadol	4.278	94696	16774.1	3.7	154.7	935424	4.885 ng/ml
Trazodone	5.091	38389	1292.0	80.7	466.6	329782	4.857 ng/ml
Venlafaxine	5.073	73364	956.0	39.1	344.5	748491	5.445 ng/ml
Zolpidem	4.863	87868	94517.7	29.9	1093.9	733809	5.016 ng/ml

\* outside curve range *BW* 12/11/19

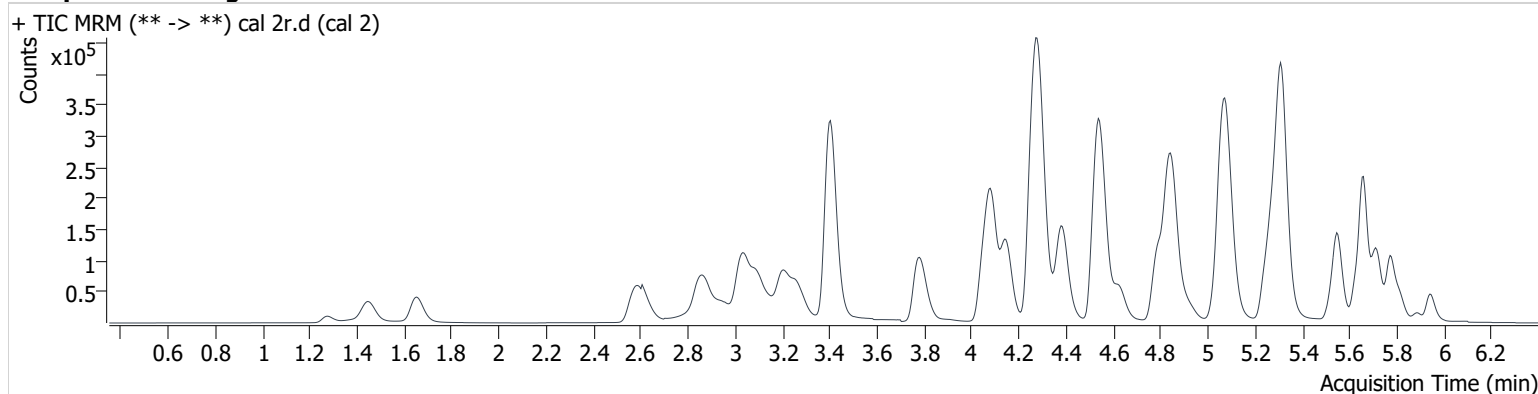
*BW*

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

**Instrument** 69679 **Data File** cal 2r.d  
**Type** Cal **Sample** cal 2  
**Acq. Method** mdq p1 cda 121818.m **Operator** Brittany Wylie  
**Sample Position** P2-B1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 12/9/2019 8:40:25 PM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	1979	1104.5	74.8	1922.8	58939	0.984 ng/ml
7-aminoclonazepam	4.292	27636	66.4	81.9	1440.3	116064	10.172 ng/ml
a-hydroxyalprazolam	5.704	1197	649.5	62.4	749.7	6634	8.777 ng/ml
alpha-PVP	4.392	85488	4142.5	54.4	1213.3	376259	9.975 ng/ml
Alprazolam	5.777	26032	6307.9	107.7	805.4	94417	9.854 ng/ml
Amphetamine	3.107	121644	732.9	54.7	629.4	232414	10.531 ng/ml
Benzoyllecgonine	3.921	2047	40.7	9.8	100.3	7341	10.170 ng/ml
<b>Buprenorphine</b>	<b>5.683</b>	<b>774</b>	<b>98.0</b>	<b>22.1 High</b>	<b>227.6</b>	<b>31920</b>	<b>0.995 ng/ml *</b>
Bupropion	4.809	83362	3762.1	60.1	12596.5	331478	9.905 ng/ml
Carisoprodol	5.728	20660	1675.0	54.5	107.2	94292	10.151 ng/ml
Citalopram	5.251	50367	55.8	46.2	167.2	222607	9.821 ng/ml
Clonazepam	5.622	3859	3687.0	34.8	1442.1	7017	10.113 ng/ml
Cocaine	4.291	75513	83745.3	46.2	46617.5	604100	10.003 ng/ml
Codeine	2.633	11607	1236.8	105.9	181.7	58056	10.168 ng/ml
Cyclobenzaprine	5.630	32195	18618.9	8.9	3391.3	128610	9.814 ng/ml
Dextromethorphan	5.295	27328	1889.8	74.8	16383.0	130582	9.794 ng/ml
Dextrorphan	4.151	26093	45280.1	219.1	78588.5	299556	9.789 ng/ml
Diazepam	5.947	16437	1827.1	85.8	8888.7	83609	9.720 ng/ml
Dihydrocodeine	2.606	30610	1249.0	63.8	38879.7	173989	10.142 ng/ml
Diphenhydramine	5.316	146144	3535.5	34.4	559.1	832263	9.953 ng/ml
Doxylamine	4.553	213635	561.2	95.4	368125.2	908746	10.029 ng/ml
EDDP	5.284	27718	24690.4	240.1	728.4	319640	10.031 ng/ml
Fentanyl	5.107	3986	272.3	72.9	3296.0	214051	0.956 ng/ml
Fluoxetine	5.710	30958	1696.5	8.5	656.8	129074	9.753 ng/ml
Hydrocodone	3.063	32399	19.6	38.8	286.0	186522	10.032 ng/ml
Hydromorphone	1.663	29453	5005.9	74.0	1171.3	111494	9.885 ng/ml
Ketamine	4.071	68957	98512.1	37.9	1042.2	336047	9.831 ng/ml
Lamotrigine	4.314	7626	1176.4	90.1	478.4	94292	9.321 ng/ml
<b>Lorazepam</b>	<b>5.755</b>	<b>1486</b>	<b>292.9</b>	<b>52.1</b>	<b>12.0</b>	<b>94417</b>	<b>1.309 ng/ml *</b>
Meprobamate	4.942	13236	7833.5	29.0	663.7	62369	9.916 ng/ml
Methadone	5.659	83389	4613.3	47.7	1363.7	410994	10.242 ng/ml
Methamphetamine	3.269	91738	173.9	41.7	18.5	290287	9.151 ng/ml
Metoprolol	4.349	18872	1138.8	98.6	1301.9	94292	9.757 ng/ml

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.630	107587	40129.1	45.5	4975.1	410994	10.802 ng/ml
Mitragynine	5.234	11702	14273.8	36.7	632.2	410994	9.776 ng/ml
Morphine	1.282	5692	39892.1	21.2	7302.2	7607	9.905 ng/ml
Norbuprenorphine	5.014	134	23.8	88.5	162.9	4939	0.975 ng/ml
Nordiazepam	5.897	6209	9828.8	63.6	4145.0	21639	10.072 ng/ml
Norfentanyl	4.112	11264	13650.2	40.8	81.8	501898	0.993 ng/ml
Norhydrocodone	3.105	1529	422.9	47.7	304.2	58699	10.861 ng/ml
Noroxycodone	2.962	23450	406.7	43.5	473.5	88959	9.590 ng/ml
O-desmethyl-tramadol	3.410	174611	2594.9	6.7	1213.8	945083	10.066 ng/ml
Oxazepam	5.763	2159	1121.7	71.3	62.9	11231	10.103 ng/ml
Oxycodone	2.884	61069	3155.4	29.2	738.8	303898	9.964 ng/ml
Oxymorphone	1.450	29750	23.9	46.2	59892.3	122417	9.521 ng/ml
Phentermine	3.813	34166	121.8	5.8	61.6	377384	10.080 ng/ml
Promethazine	5.552	47596	914.0	31.8	760.2	215672	10.158 ng/ml
Quetiapine	5.534	62314	18301.0	58.8	20481.3	92565	10.360 ng/ml
Sertraline	5.777	16031	22167.2	107.9	15758.0	76368	10.008 ng/ml
Temazepam	5.819	13101	408.5	29.9	43.5	64101	9.974 ng/ml
Tramadol	4.273	178453	554.2	3.3	51.2	918338	10.217 ng/ml
Trazodone	5.091	64896	30012.3	81.5	213.3	289862	10.224 ng/ml
Venlafaxine	5.068	138657	8833.6	39.3	340.5	726070	10.172 ng/ml
Zolpidem	4.863	170967	187227.1	29.6	1020.7	727507	10.011 ng/ml

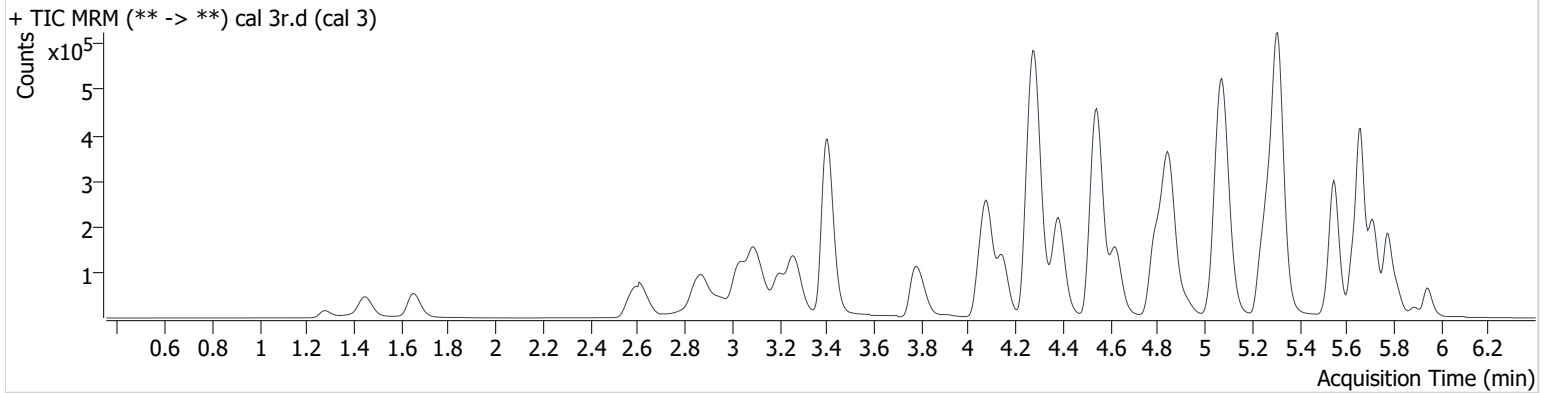
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 3r.d
<b>Type</b>	Cal	<b>Sample</b>	cal 3
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-C1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 8:51:12 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	4392	1540.3	79.2	478.9	52823	2.367 ng/ml
7-aminoclonazepam	4.287	68455	146002.9	81.4	58410.4	114557	27.159 ng/ml
a-hydroxyalprazolam	5.704	2491	2383.4	60.4	1889.4	5878	22.635 ng/ml
alpha-PVP	4.387	217906	909.3	52.6	3752.3	376562	25.008 ng/ml
Alprazolam	5.777	52805	817.9	109.5	2116.9	76061	24.940 ng/ml
Amphetamine	3.101	311797	813.0	54.8	1841.2	247943	26.949 ng/ml
Benzoylcegonine	3.921	4963	4338.5	9.2	174.1	7543	23.290 ng/ml
Buprenorphine	5.683	2805	5177.9	13.2	579.4	38966	2.649 ng/ml
Bupropion	4.804	223060	403.7	59.7	1063.8	363020	25.351 ng/ml
Carisoprodol	5.728	48953	768.2	57.2	807.0	90343	25.189 ng/ml
Citalopram	5.246	151387	12884.8	46.0	91332.8	272250	24.591 ng/ml
Clonazepam	5.622	9903	1496.8	31.3	707.6	7339	26.307 ng/ml
Cocaine	4.286	187464	161891.7	45.4	128716.7	608672	24.736 ng/ml
Codeine	2.633	26305	300.8	104.4	316.2	55186	25.011 ng/ml
Cyclobenzaprine	5.630	128530	6343.3	8.9	647.3	208649	24.486 ng/ml
Dextromethorphan	5.290	72739	1700.3	74.4	42014.0	136653	25.155 ng/ml
Dextrophan	4.146	49359	86080.3	219.1	2469.8	223344	25.249 ng/ml
Diazepam	5.947	41996	1934.3	85.4	1785.7	85284	24.700 ng/ml
Dihydrocodeine	2.606	69430	33589.4	64.1	25962.3	155601	27.242 ng/ml
Diphenhydramine	5.316	442733	49367.2	34.3	19253.0	992104	24.522 ng/ml
Doxylamine	4.548	504634	80269.6	96.4	3532.5	877767	24.878 ng/ml
EDDP	5.284	71240	666.7	243.9	150684.2	346035	24.078 ng/ml
Fentanyl	5.107	16003	1495.2	67.1	14271.4	318011	2.475 ng/ml
Fluoxetine	5.710	127809	27010.9	9.0	5698.4	213491	25.070 ng/ml
Hydrocodone	3.058	73443	21.2	37.7	617.3	171410	25.159 ng/ml
Hydromorphone	1.658	65384	18670.9	74.0	1856.5	95363	25.936 ng/ml
Ketamine	4.066	172544	17818.2	38.0	209.9	337933	25.281 ng/ml
Lamotrigine	4.309	18543	1073.9	90.9	1421.4	90343	26.951 ng/ml
Lorazepam	5.750	3599	158.3	62.0	56.0	76061	26.209 ng/ml
Meprobamate	4.937	32081	6258.5	29.6	424.0	61263	24.978 ng/ml
Methadone	5.659	270851	244673.0	48.5	148060.0	548140	24.214 ng/ml
Methamphetamine	3.264	241226	229.1	43.7	198.3	330339	26.081 ng/ml
Metoprolol	4.344	45972	708.9	97.3	9844.9	90343	24.713 ng/ml

BW



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	311937	193243.2	45.7	81774.8	548140	23.433 ng/ml
Mitragynine	5.234	41550	1659.8	37.8	4215.8	548140	25.983 ng/ml
Morphine	1.282	13004	16612.0	21.7	17821.7	7107	24.697 ng/ml
Norbuprenorphine	5.014	318	326.5	119.3	290.6	6146	2.399 ng/ml
Nordiazepam	5.892	16010	11986.8	60.0	10467.7	22864	24.665 ng/ml
Norfentanyl	4.107	27187	1009.8	41.0	362.8	499621	2.389 ng/ml
Norhydrocodone	3.105	3985	26.6	47.5	203.5	57829	21.309 ng/ml
Noroxycodone	2.956	57039	580.9	42.9	355.2	85458	25.160 ng/ml
O-desmethyl-tramadol	3.405	423216	836.5	6.5	76.4	923810	24.582 ng/ml
Oxazepam	5.758	4740	183.3	77.3	89.3	10955	24.077 ng/ml
Oxycodone	2.879	146327	1167.8	30.0	387.6	297772	25.250 ng/ml
Oxymorphone	1.450	72127	394972.3	45.0	151633.1	118026	25.723 ng/ml
Phentermine	3.813	87699	116.4	5.6	310.2	387231	26.840 ng/ml
Promethazine	5.552	182601	4159.8	32.2	6477.4	337203	24.323 ng/ml
Quetiapine	5.534	171604	141774.7	60.9	105471.1	107438	25.677 ng/ml
Sertraline	5.777	66274	62806.1	103.5	54169.9	129849	24.551 ng/ml
Temazepam	5.819	32977	1140.7	29.7	325.2	65145	24.651 ng/ml
Tramadol	4.273	427787	61421.4	3.5	82.4	915340	25.857 ng/ml
Trazodone	5.086	198649	196081.8	77.8	343.8	367493	26.039 ng/ml
Venlafaxine	5.068	346220	5441.8	39.5	1869.6	736181	24.377 ng/ml
Zolpidem	4.858	416406	472012.0	30.5	96562.6	738577	24.260 ng/ml

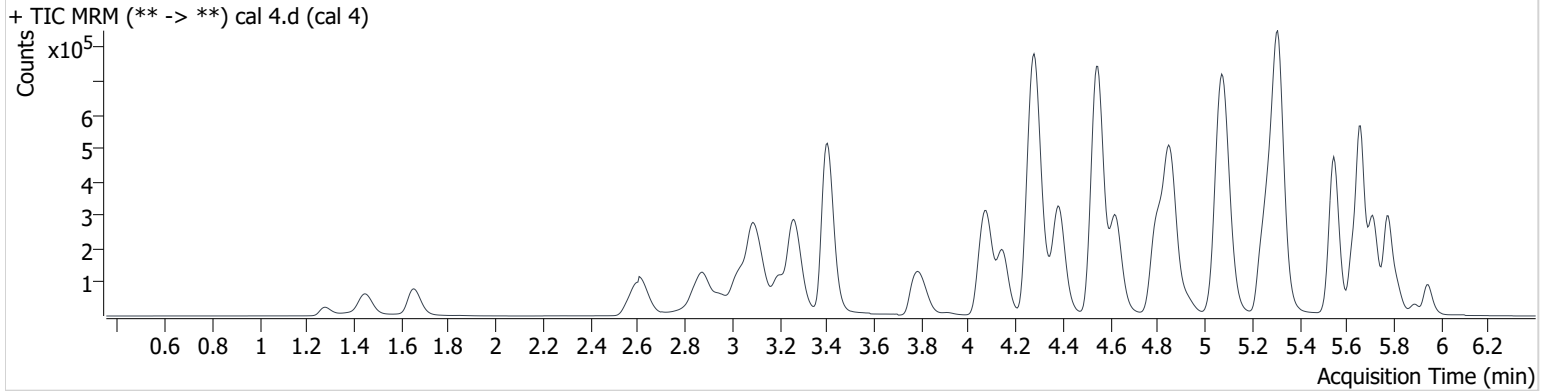
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	cal 4
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-D1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 9:02:00 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	8871	633.1	77.0	8677.3	52975	4.721 ng/ml
7-aminoclonazepam	4.292	127033	162.2	81.0	91771.8	108593	54.202 ng/ml
a-hydroxyalprazolam	5.704	5434	3456.2	61.3	906.1	5810	51.780 ng/ml
alpha-PVP	4.387	439702	67320.0	53.2	5216.1	381288	49.580 ng/ml
Alprazolam	5.777	124893	1592.1	110.8	5365.9	90118	49.871 ng/ml
Amphetamine	3.101	636389	8164.3	55.0	4057.7	258226	53.939 ng/ml
Benzoylcegonine	3.916	10163	14732.4	8.8	1098.1	7321	48.568 ng/ml
Buprenorphine	5.683	4885	2670.9	16.7	189.9	38603	4.541 ng/ml
Bupropion	4.804	444232	3904.1	60.0	1447.0	362257	51.386 ng/ml
Carisoprodol	5.728	91858	2458.7	59.7	304.3	87433	48.894 ng/ml
Citalopram	5.251	291155	225.7	46.0	218769.0	255453	50.733 ng/ml
Clonazepam	5.622	18845	1774.0	34.4	2686.3	7013	53.410 ng/ml
Cocaine	4.286	366852	319060.9	46.2	381619.6	588350	50.140 ng/ml
Codeine	2.628	53034	84401.5	103.5	495.7	53463	52.651 ng/ml
Cyclobenzaprine	5.630	267660	292195.0	9.1	3164.3	210849	50.703 ng/ml
Dextromethorphan	5.290	148118	104461.3	75.3	80817.4	135592	51.791 ng/ml
Dextrorphan	4.146	106192	20135.7	215.1	265086.2	238106	51.228 ng/ml
Diazepam	5.947	83784	5675.2	86.2	2401.6	82347	51.287 ng/ml
Dihydrocodeine	2.601	140149	1345.9	64.1	361.8	156305	55.741 ng/ml
Diphenhydramine	5.316	846552	9543.4	34.8	7438.1	944249	48.761 ng/ml
Doxylamine	4.548	1056641	120000.3	96.1	755724.7	911811	50.394 ng/ml
EDDP	5.284	152849	167562.6	232.2	478.9	352229	50.966 ng/ml
Fentanyl	5.107	30749	21952.0	72.5	21080.8	312398	4.781 ng/ml
Fluoxetine	5.710	257664	12008.5	8.3	24727.2	212838	51.192 ng/ml
Hydrocodone	3.058	149069	410.8	35.8	2362.3	169452	51.953 ng/ml
Hydromorphone	1.658	131543	11227.9	70.0	2369.5	97437	51.237 ng/ml
Ketamine	4.066	347965	83450.0	37.5	895.1	337986	51.534 ng/ml
Lamotrigine	4.309	36222	1187.2	86.9	3686.0	87433	56.581 ng/ml
Lorazepam	5.750	6558	1769.7	52.7	49.2	90118	46.277 ng/ml
Meprobamate	4.937	63974	82466.4	28.8	75.7	59746	51.441 ng/ml
Methadone	5.659	530261	1093.6	48.2	11555.3	527766	48.711 ng/ml
Methamphetamine	3.264	564878	790.6	41.5	234.0	402858	53.545 ng/ml
Metoprolol	4.349	91498	88828.3	98.0	1022.7	87433	50.760 ng/ml

BW

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	621752	14773.7	45.6	318996.4	527766	48.464 ng/ml
Mitragynine	5.234	83433	100423.2	38.7	31396.6	527766	54.158 ng/ml
Morphine	1.282	25886	139814.0	20.5	8645.6	6799	51.744 ng/ml
Norbuprenorphine	5.019	599	560.6	94.3	440.6	5752	5.428 ng/ml
Nordiazepam	5.892	32554	23697.6	63.3	10163.8	21585	53.191 ng/ml
Norfentanyl	4.112	51654	22727.3	40.1	968.6	466813	4.846 ng/ml
Norhydrocodone	3.105	9558	591.5	41.1	341.4	59774	43.479 ng/ml
Noroxycodone	2.956	111398	1260.0	42.6	365.5	82872	51.251 ng/ml
O-desmethyl-tramadol	3.405	848220	54365.8	6.5	2218.4	918588	49.289 ng/ml
Oxazepam	5.758	9013	734.0	72.0	99.0	10090	50.841 ng/ml
Oxycodone	2.879	289365	914.7	29.6	10967.7	292654	51.425 ng/ml
Oxymorphone	1.450	143406	778900.8	44.5	163791.8	116260	53.117 ng/ml
Phentermine	3.813	190294	672.5	5.4	67.3	415043	55.446 ng/ml
Promethazine	5.552	382043	604344.6	31.7	4539.6	347652	48.934 ng/ml
Quetiapine	5.534	332653	12292.5	60.8	96424.4	104170	52.133 ng/ml
Sertraline	5.777	135528	100652.4	101.2	113632.8	127695	51.218 ng/ml
Temazepam	5.819	65917	5804.4	29.0	234.6	62584	51.253 ng/ml
Tramadol	4.273	842574	202825.2	3.6	1135.8	899767	52.726 ng/ml
Trazodone	5.086	395240	195625.7	79.4	178992.7	360351	53.820 ng/ml
Venlafaxine	5.068	692959	33489.7	38.4	2686.9	727180	48.923 ng/ml
Zolpidem	4.858	844070	714742.2	30.1	290.2	715575	50.945 ng/ml

BW

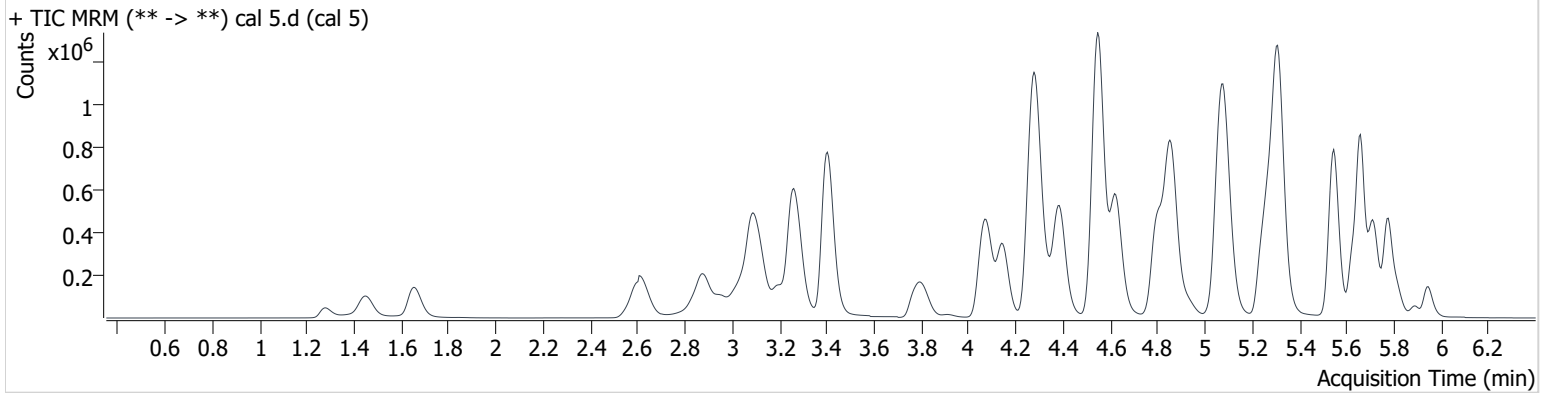
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-E1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 9:12:48 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	18663	4327.2	72.1	9646.0	53603	9.765 ng/ml
7-aminoclonazepam	4.292	214812	1902.0	81.9	9962.4	97012	103.561 ng/ml
a-hydroxyalprazolam	5.699	10642	972.4	63.3	266.5	6147	97.123 ng/ml
alpha-PVP	4.392	864033	98034.1	53.1	53493.0	382431	96.889 ng/ml
Alprazolam	5.777	243218	3878.0	110.4	2922.7	89770	97.577 ng/ml
Amphetamine	3.096	1214244	831.4	54.7	6571.9	266650	100.661 ng/ml
Benzoylcegonine	3.916	20853	15186.2	7.9	2911.4	7792	93.151 ng/ml
Buprenorphine	5.683	8897	1035.2	17.5	1244.4	33820	9.272 ng/ml
Bupropion	4.804	853454	1871.5	60.7	1134.8	359275	100.287 ng/ml
Carisoprodol	5.728	180564	2859.2	58.9	2120.2	86110	97.645 ng/ml
Citalopram	5.246	571308	64265.2	45.8	5726.5	255800	99.713 ng/ml
Clonazepam	5.622	36155	37863.5	34.2	11668.7	6882	105.396 ng/ml
Cocaine	4.286	714900	1337505.6	45.5	56215.2	584585	98.399 ng/ml
Codeine	2.628	103591	20917.6	102.7	1905.3	53725	102.867 ng/ml
Cyclobenzaprine	5.630	506043	194410.2	9.3	1604.0	203872	99.360 ng/ml
Dextromethorphan	5.290	300632	404779.4	76.4	164015.8	147712	96.631 ng/ml
Dextrorphan	4.146	242499	401015.2	216.5	56892.4	276262	101.086 ng/ml
Diazepam	5.947	162297	4752.4	86.7	5155.6	81802	100.234 ng/ml
Dihydrocodeine	2.601	284787	1239.3	64.9	57457.6	169969	105.021 ng/ml
Diphenhydramine	5.316	1633120	5069.7	34.3	6694.2	919904	96.066 ng/ml
Doxylamine	4.553	2153151	204650.2	97.0	25559.7	941290	99.710 ng/ml
EDDP	5.284	275422	228084.1	240.9	4527.9	333463	97.179 ng/ml
Fentanyl	5.107	55561	244.5	74.1	130.5	282793	9.482 ng/ml
Fluoxetine	5.710	503179	21356.6	8.6	919.4	213442	100.147 ng/ml
Hydrocodone	3.058	305763	1201.0	38.8	24.0	178845	101.232 ng/ml
Hydromorphone	1.658	276658	542329.1	71.2	10678.7	106603	98.657 ng/ml
Ketamine	4.066	691612	106840.2	37.9	3224.2	343760	101.234 ng/ml
Lamotrigine	4.314	68190	1692.0	89.6	4156.2	86110	110.108 ng/ml
Lorazepam	5.750	12230	673.5	57.7	180.4	89770	96.319 ng/ml
Meprobamate	4.937	122599	104963.6	28.5	21611.0	59973	98.524 ng/ml
Methadone	5.659	1036299	62017.5	46.4	30324.3	517122	96.651 ng/ml
Methamphetamine	3.264	1269689	1763.1	41.5	930.9	477452	104.928 ng/ml
Metoprolol	4.349	178353	36048.6	96.5	8832.9	86110	100.407 ng/ml

*BW*

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	1218308	2224.0	45.2	40468.2	517122	96.876 ng/ml
Mitragynine	5.234	149416	91851.4	38.4	60522.0	517122	98.965 ng/ml
Morphine	1.282	53113	314968.0	20.7	1529.3	7156	101.198 ng/ml
Norbuprenorphine	5.014	1022	783.2	104.8	263.4	5760	9.671 ng/ml
Nordiazepam	5.892	63274	17204.1	62.3	59035.7	21955	101.697 ng/ml
Norfentanyl	4.112	118332	131934.1	39.9	1701.4	534208	9.689 ng/ml
Norhydrocodone	3.105	23445	560.1	40.6	139.0	63084	95.077 ng/ml
Noroxycodone	2.956	221675	3531.5	42.9	272.7	83282	102.045 ng/ml
O-desmethyl-tramadol	3.405	1717219	209209.4	6.4	12794.1	941694	97.088 ng/ml
Oxazepam	5.758	16124	903.1	70.2	253.4	9246	100.275 ng/ml
Oxycodone	2.879	570734	1445.7	29.4	1271.9	299725	99.601 ng/ml
Oxymorphone	1.450	276387	870065.5	44.7	7533.4	114489	105.082 ng/ml
Phentermine	3.813	375506	864.9	5.4	1147.0	430986	106.338 ng/ml
Promethazine	5.552	723142	602470.2	31.8	6897.7	332807	96.351 ng/ml
Quetiapine	5.534	682358	791570.6	60.4	510903.5	106929	104.977 ng/ml
Sertraline	5.777	238258	268362.4	101.6	275741.1	116264	99.034 ng/ml
Temazepam	5.819	126727	1862.6	29.6	772.3	63676	96.813 ng/ml
Tramadol	4.273	1643395	196474.4	3.6	4463.3	919449	101.467 ng/ml
Trazodone	5.091	750004	341202.8	80.5	750.5	355295	104.465 ng/ml
Venlafaxine	5.068	1362565	104006.9	38.7	2338.4	729375	95.465 ng/ml
Zolpidem	4.863	1706961	2568623.0	29.8	1913.1	738412	100.005 ng/ml

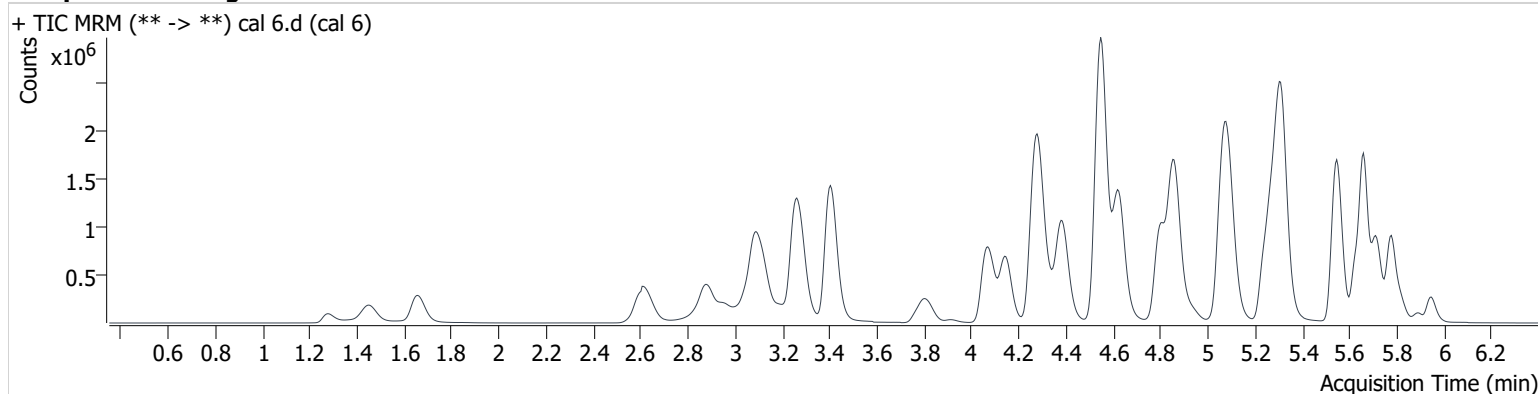
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# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 6.d
<b>Type</b>	Cal	<b>Sample</b>	cal 6
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-F1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 9:23:35 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	43067	1426.0	75.1	57347.0	48057	25.061 ng/ml
7-aminoclonazepam	4.287	341637	4436.7	81.4	18521.9	66534	241.577 ng/ml
a-hydroxyalprazolam	5.704	23059	1667.3	61.9	1952.6	5376	242.799 ng/ml
alpha-PVP	4.387	2057237	2275.0	52.4	3755.4	355829	247.535 ng/ml
Alprazolam	5.777	534044	2208.7	109.1	153.0	76512	251.515 ng/ml
Amphetamine	3.096	2539954	625.1	52.8	703.3	234770	240.769 ng/ml
Benzoylcegonine	3.916	52081	645.5	8.0	3672.3	7553	239.189 ng/ml
Buprenorphine	5.683	21790	22206.2	14.7	370.6	30422	24.979 ng/ml
Bupropion	4.804	2032922	4675.4	60.9	17481.2	340609	253.180 ng/ml
Carisoprodol	5.728	368927	453359.8	58.4	25071.9	68984	249.127 ng/ml
Citalopram	5.246	1332585	2191.1	45.7	992328.6	237163	251.333 ng/ml
Clonazepam	5.622	75807	65858.4	34.4	29610.9	6142	249.016 ng/ml
Cocaine	4.286	1550790	275294.8	45.8	562402.5	499157	250.076 ng/ml
Codeine	2.628	214704	33620.6	105.3	616.3	46285	248.257 ng/ml
Cyclobenzaprine	5.630	1277124	3198.6	9.2	8799.2	201889	253.578 ng/ml
Dextromethorphan	5.290	732599	88172.9	75.4	12567.9	139183	250.157 ng/ml
Dextrorphan	4.146	594275	934395.2	217.7	203233.9	274069	250.101 ng/ml
Diazepam	5.947	351450	1085.8	86.6	8739.1	70582	251.913 ng/ml
Dihydrocodeine	2.601	650315	61445.4	63.7	1018.5	161432	253.888 ng/ml
Diphenhydramine	5.316	3915476	2962.0	33.5	35610.6	838478	251.874 ng/ml
Doxylamine	4.548	5243213	141356.0	96.9	590145.2	906978	252.365 ng/ml
EDDP	5.284	760891	593180.7	239.4	252912.3	360278	248.786 ng/ml
Fentanyl	5.107	142895	1496.3	74.6	155088.1	277477	24.751 ng/ml
Fluoxetine	5.710	1245918	1360421.0	8.5	149703.3	206457	257.120 ng/ml
Hydrocodone	3.058	712807	782.2	39.4	798.7	170617	247.783 ng/ml
Hydromorphone	1.658	644504	457412.9	70.6	18302.9	98393	249.274 ng/ml
Ketamine	4.066	1601042	1143.7	37.8	3955.7	318805	253.518 ng/ml
Lamotrigine	4.314	134254	514.7	88.0	634.5	68984	273.727 ng/ml
Lorazepam	5.750	24436	10651.7	54.0	218.6	76512	240.713 ng/ml
Meprobamate	4.937	270914	85495.2	28.7	14002.3	53325	245.373 ng/ml
Methadone	5.659	2576250	138181.9	47.1	19730.3	503872	245.805 ng/ml
Methamphetamine	3.264	2883631	1146.9	40.9	737.6	452795	256.535 ng/ml
Metoprolol	4.349	378427	11344.2	97.0	6965.8	68984	265.832 ng/ml

*BW*

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	2993001	3563.2	45.4	6940.5	503872	244.188 ng/ml
Mitragynine	5.234	370619	1322.0	39.2	65171.0	503872	251.891 ng/ml
Morphine	1.277	119252	66027.9	20.6	14811.4	6586	247.346 ng/ml
Norbuprenorphine	5.014	2634	12793.5	93.8	406.7	5927	25.111 ng/ml
Nordiazepam	5.892	134388	197632.2	61.2	3836.0	19344	245.233 ng/ml
Norfentanyl	4.107	268954	1053.0	40.8	17124.1	473232	24.841 ng/ml
Norhydrocodone	3.110	63026	2130.2	42.0	20.4	60780	257.193 ng/ml
Noroxycodone	2.956	491703	6417.9	41.4	486.8	74988	252.223 ng/ml
O-desmethyl-tramadol	3.405	4048476	385363.5	6.4	26860.8	883097	243.696 ng/ml
Oxazepam	5.758	30847	462.3	73.7	429.7	7059	252.867 ng/ml
Oxycodone	2.879	1318894	1325.7	29.8	17140.4	280158	247.141 ng/ml
Oxymorphone	1.450	609046	2929572.7	45.1	847752.9	102171	261.205 ng/ml
Phentermine	3.813	797978	1144.8	5.2	1385.3	391829	250.007 ng/ml
Promethazine	5.552	1929034	3007448.2	31.7	361907.9	352170	242.260 ng/ml
Quetiapine	5.534	1550731	1602194.0	61.1	815618.1	103857	246.696 ng/ml
Sertraline	5.777	545590	529.0	101.2	559878.3	105232	250.787 ng/ml
Temazepam	5.819	284186	5065.2	29.8	1093.6	56089	246.417 ng/ml
Tramadol	4.270	3640409	109815.9	3.5	1764.6	855815	242.739 ng/ml
Trazodone	5.091	1789538	1837.8	79.9	827.4	349938	254.435 ng/ml
Venlafaxine	5.068	3211920	353077.8	37.9	1967.8	667537	245.159 ng/ml
Zolpidem	4.858	4057396	979.5	29.4	675113.3	695866	252.506 ng/ml

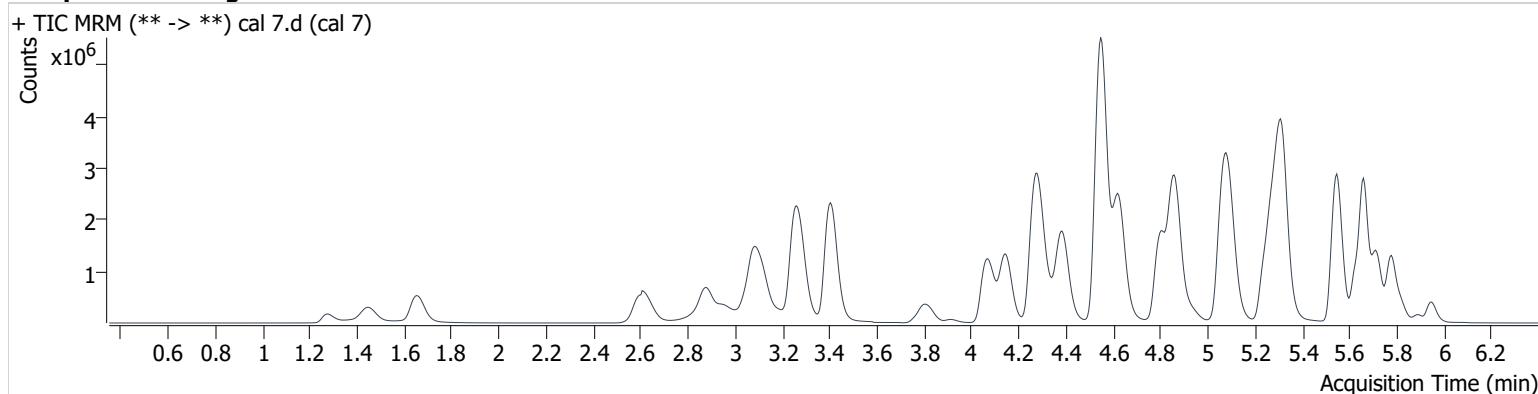
BW

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 7.d
<b>Type</b>	Cal	<b>Sample</b>	cal 7
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-G1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 9:34:24 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	82460	7793.2	74.7	14486.5	43690	52.727 ng/ml
7-aminoclonazepam	4.292	401357	1593.8	80.4	11089.3	44814	422.158 ng/ml
a-hydroxyalprazolam	5.704	42850	498.2	59.3	616.7	4396	553.774 ng/ml
alpha-PVP	4.387	3711700	286844.0	52.6	428645.9	323880	490.408 ng/ml
Alprazolam	5.777	888222	1901.7	109.1	5106.6	64996	492.521 ng/ml
Amphetamine	3.096	4041233	51944.9	52.8	16272.1	207490	434.385 ng/ml
Benzoylcegonine	3.916	113334	1138.4	8.2	510.7	8060	487.252 ng/ml
Buprenorphine	5.683	33075	1921.0	16.1	4269.8	21464	53.561 ng/ml
Bupropion	4.804	3705560	4280.5	60.6	47726.4	320647	490.965 ng/ml
Carisoprodol	5.728	627536	583963.1	58.2	21264.1	58567	499.183 ng/ml
Citalopram	5.246	2217523	169401.5	45.4	2532168.5	200726	494.459 ng/ml
Clonazepam	5.622	121512	104284.3	34.5	2993.7	5382	456.392 ng/ml
Cocaine	4.286	2608251	7478.1	45.4	252623.2	419020	501.100 ng/ml
Codeine	2.628	368801	1276.5	102.8	59151.9	40657	485.997 ng/ml
Cyclobenzaprine	5.630	2098407	155197.8	9.0	3828.9	167580	502.175 ng/ml
Dextromethorphan	5.290	1339527	4596.7	75.5	155390.5	128917	493.980 ng/ml
Dextrorphan	4.146	1275987	1918904.9	221.4	413469.0	302346	487.032 ng/ml
Diazepam	5.947	577947	4521.6	86.6	6020.8	58964	496.118 ng/ml
Dihydrocodeine	2.596	1184380	57927.3	64.9	39554.4	162496	460.163 ng/ml
Diphenhydramine	5.321	6469899	210670.7	33.8	16713.8	709787	491.178 ng/ml
Doxylamine	4.548	10332547	554420.1	96.3	504532.1	894664	504.411 ng/ml
EDDP	5.284	1496857	1081862.6	239.1	23787.3	348167	506.646 ng/ml
Fentanyl	5.112	237667	133111.9	76.9	143050.2	221988	51.388 ng/ml
Fluoxetine	5.710	2023195	195208.5	8.3	6657.1	167118	516.298 ng/ml
Hydrocodone	3.053	1362390	4033.4	38.9	1697.1	168593	479.537 ng/ml
Hydromorphone	1.658	1292175	41656.0	73.8	15256.7	101093	486.590 ng/ml
Ketamine	4.066	2889869	1618.8	37.5	4901.0	296108	493.191 ng/ml
Lamotrigine	4.314	190778	3541.3	89.7	34175.1	58567	459.596 ng/ml
Lorazepam	5.750	40979	3293.7	57.9	908.6	64996	486.005 ng/ml
Meprobamate	4.937	482393	431286.0	28.6	65025.5	47078	495.246 ng/ml
Methadone	5.659	4533461	124383.4	45.5	238912.5	440429	494.339 ng/ml
Methamphetamine	3.264	5263928	1225.9	40.7	828.2	453073	471.108 ng/ml
Metoprolol	4.349	593478	12447.6	97.0	2266.2	58567	490.992 ng/ml



# AM #28 Multi-Drug Quant. Results

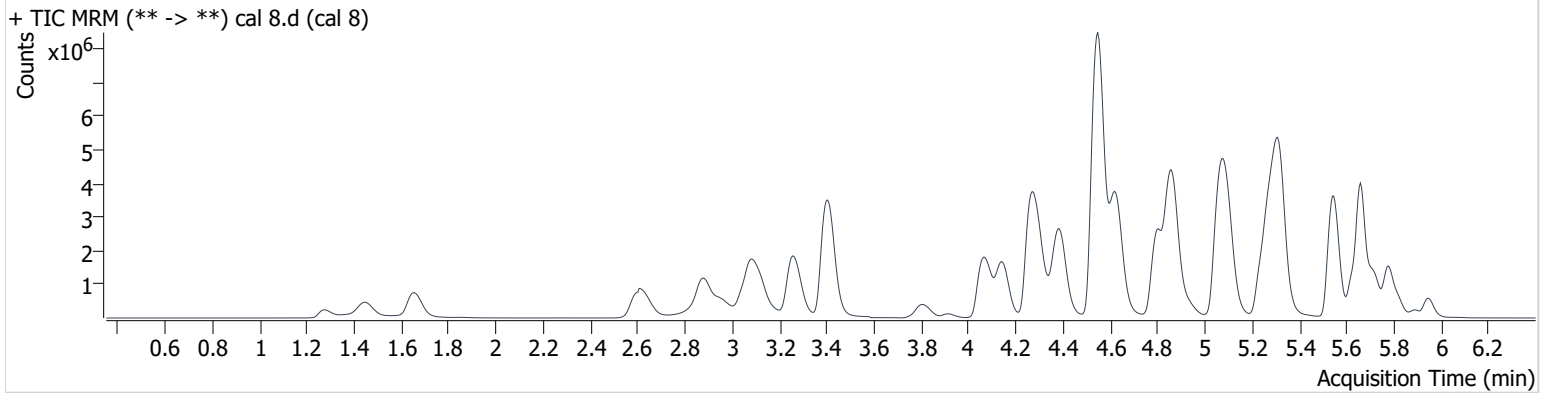
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	5534452	17008.6	44.7	11288.5	440429	516.531 ng/ml
Mitragynine	5.234	643429	11195.6	38.8	341384.0	440429	500.273 ng/ml
Morphine	1.277	227269	1236494.1	21.0	234.0	6314	492.014 ng/ml
Norbuprenorphine	5.014	4492	3842.1	97.3	3414.9	5043	50.922 ng/ml
Nordiazepam	5.892	211914	29965.5	62.2	129201.3	15137	494.220 ng/ml
Norfentanyl	4.107	505552	47222.5	40.2	1150.4	437381	50.508 ng/ml
Norhydrocodone	3.110	120528	16.8	41.9	16.6	55682	531.967 ng/ml
Noroxycodone	2.956	877212	2545.3	42.0	5541.9	66837	505.420 ng/ml
O-desmethyl-tramadol	3.405	7495073	309565.9	6.2	40190.7	803978	495.297 ng/ml
Oxazepam	5.758	50455	3435.3	73.9	1042.9	5866	498.766 ng/ml
Oxycodone	2.874	2444885	17829.1	29.7	2560.1	265025	484.880 ng/ml
Oxymorphone	1.445	1067995	3136634.2	44.8	6355.4	93159	503.434 ng/ml
Phentermine	3.813	1335500	326.8	5.2	1515.6	359424	457.029 ng/ml
Promethazine	5.552	3626668	1131850.7	30.8	774887.2	321647	498.242 ng/ml
Quetiapine	5.534	2739720	1380678.3	59.8	1754709.7	96834	468.169 ng/ml
Sertraline	5.777	759687	441.7	101.3	114608.4	73988	496.812 ng/ml
Temazepam	5.819	499627	2765.3	29.4	2080.1	48214	503.957 ng/ml
Tramadol	4.268	6281921	254164.9	3.4	17041.9	725603	494.987 ng/ml
Trazodone	5.091	2967972	177482.2	80.0	64017.4	309765	477.546 ng/ml
Venlafaxine	5.068	5831051	8880.7	37.7	67104.8	600063	494.648 ng/ml
Zolpidem	4.861	7409778	2506.2	29.0	229485.3	640990	500.785 ng/ml

# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2019\am27-28 120919\QuantResults\mdq.batch.bin  
**Calibration Last Update** 12/11/2019 2:14:24 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 8.d
<b>Type</b>	Cal	<b>Sample</b>	cal 8
<b>Acq. Method</b>	mdq p1 cda 121818.m	<b>Operator</b>	Britany Wylie
<b>Sample Position</b>	P2-H1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	12/9/2019 9:55:56 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.168	133534	683.4	74.1	177826.1	34942	106.716 ng/ml
<u>7-aminoclonazepam</u>	<u>4.297</u>	<u>401401</u>	<u>19451.4</u>	<u>83.0</u>	<u>10499.0</u>	<u>24193</u>	<u>783.007 ng/ml</u> *
a-hydroxyalprazolam	5.699	67405	1489.6	56.5	964.0	3637	1054.133 ng/ml
alpha-PVP	4.389	6002834	19395.5	52.4	249834.5	252930	1015.329 ng/ml
Alprazolam	5.777	1358788	20897.5	109.5	4661.9	46927	1043.644 ng/ml
<u>Amphetamine</u>	<u>3.101</u>	<u>4493690</u>	<u>21516.7</u>	<u>52.6</u>	<u>19843.9</u>	<u>120926</u>	<u>829.849 ng/ml</u> *
Benzoylcegonine	3.916	228355	397741.1	8.1	1757.4	7660	1032.456 ng/ml
Buprenorphine	5.683	44822	1638.6	15.4	8332.6	15040	103.448 ng/ml
Bupropion	4.804	5594984	5266875.0	60.1	15161.2	244964	971.108 ng/ml
Carisoprodol	5.733	899249	710218.3	57.7	41969.2	40522	1033.931 ng/ml
Citalopram	5.246	3049444	113026.5	45.4	1465254.0	135954	1004.230 ng/ml
Clonazepam	5.617	214216	202173.5	34.2	46878.6	4663	929.716 ng/ml
Cocaine	4.291	3801115	218083.3	45.3	514116.2	305882	1000.444 ng/ml
Codeine	2.633	559054	21103.4	100.7	1855.9	31528	950.566 ng/ml
Cyclobenzaprine	5.625	2409637	25970.9	9.1	4629.2	97164	994.795 ng/ml
Dextromethorphan	5.290	1363414	11595.0	75.2	345713.1	63778	1016.471 ng/ml
Dextrorphan	4.146	1667707	612155.3	219.7	224486.1	190500	1010.562 ng/ml
Diazepam	5.947	907522	6100.1	87.3	5984.1	45901	1000.972 ng/ml
Dihydrocodeine	2.596	1758025	54093.5	64.9	18609.2	133385	832.908 ng/ml
Diphenhydramine	5.321	9230355	1074557.4	33.7	5274.2	491119	1012.216 ng/ml
Doxylamine	4.549	16726952	5716.7	96.2	37880.1	745658	979.977 ng/ml
EDDP	5.284	2800193	∞	238.5	4334.3	320712	1029.125 ng/ml
Fentanyl	5.112	333335	323325.2	79.2	367.6	145147	110.157 ng/ml
Fluoxetine	5.710	1700548	175201.3	8.5	107230.8	74368	975.621 ng/ml
Hydrocodone	3.053	2281169	1673.3	37.8	1256.6	135999	995.668 ng/ml
Hydromorphone	1.653	1945097	3155747.9	74.6	2389.1	74382	995.668 ng/ml
Ketamine	4.067	4746597	1123688.6	37.1	65153.2	250094	959.627 ng/ml
<u>Lamotrigine</u>	<u>4.314</u>	<u>227355</u>	<u>8814.1</u>	<u>89.3</u>	<u>5019.2</u>	<u>40522</u>	<u>793.170 ng/ml</u> *
Lorazepam	5.750	67802	3361.7	58.1	767.2	46927	1128.061 ng/ml
Meprobamate	4.937	804489	303137.3	28.4	33180.3	38110	1020.649 ng/ml
Methadone	5.659	7030786	170404.9	46.1	105102.8	332609	1014.638 ng/ml
Methamphetamine	3.258	4067738	1545.8	41.3	738.8	178352	928.444 ng/ml
Metoprolol	4.344	802378	160026.5	96.7	627682.5	40522	959.373 ng/ml

cal 8

*BW* \* outside curve range  
12/11/19

Generated at 2:15 PM on 12/11/2019

*BW*

# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.625	8558788	396516.8	44.6	13538.9	332609	1057.688 ng/ml
Mitragynine	5.229	880331	11019.7	39.4	321290.9	332609	906.324 ng/ml
Morphine	1.277	333420	2554550.6	21.0	257664.9	4569	997.889 ng/ml
Norbuprenorphine	5.014	6709	2453.7	99.1	5992.9	3895	98.994 ng/ml
Nordiazepam	5.892	337217	7734.7	61.2	187545.1	12356	963.516 ng/ml
Norfentanyl	4.107	768304	280708.0	40.5	14531.2	307119	109.302 ng/ml
Norhydrocodone	3.110	201240	233.0	43.1	1572.1	42867	1148.428 ng/ml
Noroxycodone	2.952	1393566	1616.8	41.7	1128.7	54270	989.410 ng/ml
O-desmethyl-tramadol	3.405	12655878	1376.3	6.1	905.7	662538	1014.614 ng/ml
Oxazepam	5.752	84810	5681.4	71.8	1336.4	4933	998.072 ng/ml
Oxycodone	2.874	4520590	6456.8	29.6	1264.4	233842	1016.769 ng/ml
Oxymorphone	1.445	1763582	6982795.0	45.2	1944002.5	79314	977.535 ng/ml
Phentermine	3.808	1581535	791.2	5.2	1686.4	225594	863.257 ng/ml
Promethazine	5.552	3840239	607960.4	31.1	771370.4	167235	1014.286 ng/ml
Quetiapine	5.534	4473801	12260.3	59.2	2462932.6	77961	950.384 ng/ml
Sertraline	5.777	652938	875071.7	100.2	2446.8	31458	1004.454 ng/ml
Temazepam	5.819	832780	44386.2	29.5	4737.4	39451	1026.544 ng/ml
Tramadol	4.265	9473471	602764.6	3.4	24864.1	578686	936.793 ng/ml
Trazodone	5.096	4517869	462421.6	79.3	507938.3	258821	870.793 ng/ml
Venlafaxine	5.063	9725657	1238609.4	37.4	1709.2	487130	1015.812 ng/ml
Zolpidem	4.861	12367488	8729.1	28.6	3005.3	538740	994.658 ng/ml

BW