

**Worklist: 4137**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-0944	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0968	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0981	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-1049	10	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-1068	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-1085	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-1099	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3018	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0902	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0910	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0911	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0913	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0914	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0915	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0917	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0919	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0920	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0963	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0969	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0974	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 03/31/20  
 Plate lot#: IDP-111-190729

Analyst: Sarah Pickle  
 Plate Expiration: 01/29/20

**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:** Hemostat 445283-3

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

**LCMS-QQQ ID:** 069901

### Pre-Analytic:

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

### Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: #16**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250 µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300 µL of blood+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: 067104*
- 8. Wait 5 minutes.
- 9. Add **900 µL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 12. Add **900 µL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(12-15 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: 067103*
- 16. Reconstitute in **100 µL 20% LCMS MeOH in water** and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- 1. Create batch and process data.  
 Worklist path: D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP Batch Name: AM 28
- 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? Y / N \_\_\_\_\_ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: *Curves limited: amphetamine 5-500, buprenorphine 1-100, bupropion 10-1000 (qualitative only)  
 lamotrigine 5-250, lorazepam 5-250, meprobamate 25-1000, mirtazapine 5-100, mitragynine 5-500,  
 norbuprenorphine 5-100, trazodone 5-500*

**Idaho State Police  
Forensic Services  
Toxicology Discipline**

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**Request for Departure from an Analytical Method**

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Date of Request

01/13/2020

Forensic Scientist

Celena Shrum

Analytical Methods

Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows:

- \*MDS (batch IDP-107-190725)- Expiration is 1/25/2020
- \*THC (batch IDP-108-190716)- Expiration is 1/16/2020
- \*MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020
- \*MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

*Celena Shrum*

Date: 01/13/2020

Celena Shrum

Toxicology Discipline Lead



# Idaho State Police Forensic Services

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**AM #25 Blood Multi-Drug Screen by LCMS-QQQ  
And  
AM #28 Blood Multi-Drug Confirmatory Analysis by  
LCMS-QQQ---Panel 1**

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**Methanol External Control Solution (Lot: 031820)**

*100  $\mu$ L of 1mg/mL stock was added to each drug to 9700  $\mu$ L of LC MeOH.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/18/20		
Prepared By:	Sarah Pickle		
Expires:	03/18/21		

**Blood External Control Solution (Lot: WS031820)**

*100  $\mu$ L of methanol external control solution was added to 9900  $\mu$ L of blood.  
Approximately 100 ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031820
Prepared:	03/18/20	
Prepared by:	Sarah Pickle	
Expires:	03/18/21	

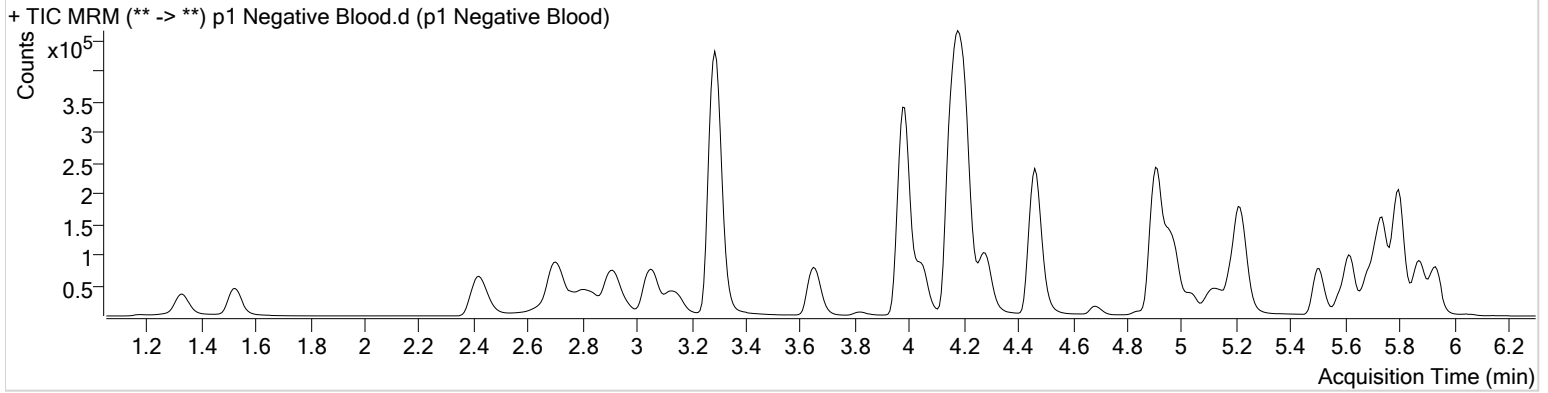
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	p1 Negative Blood
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-D11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 2:28:37 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



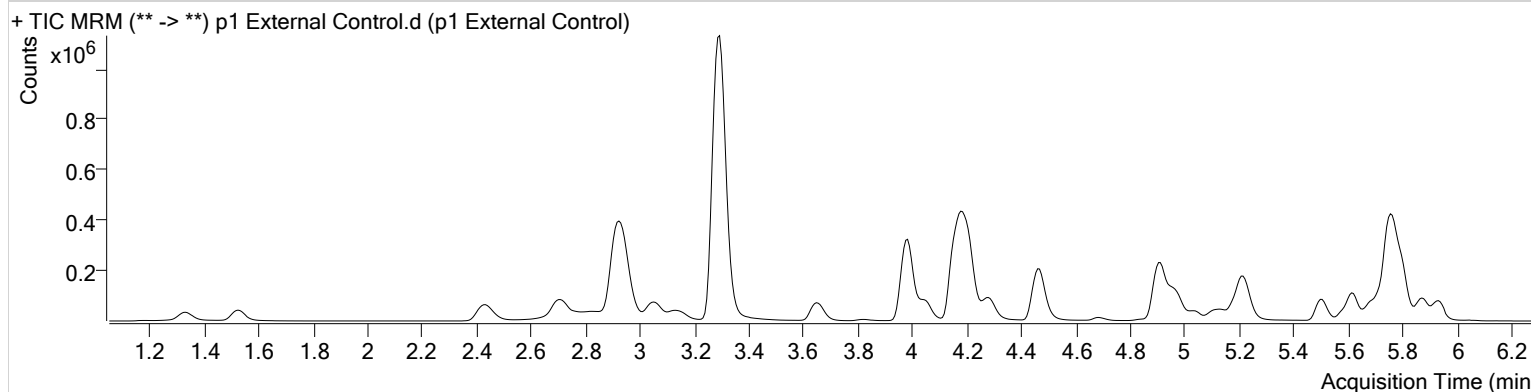
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 External Control.d
<b>Type</b>	Sample	<b>Sample</b>	p1 External Control
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-C11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 2:39:11 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	464287	1382.14	104.6	967.38	132817	88.8925 ng/ml
Amphetamine	2.927	977727	8091.05	52.2	9038.72	125994	100.2137 ng/ml
O-desmethyl-tramadol	3.295	2428206	2576.39	6.1	1593.43	1368822	96.2766 ng/ml

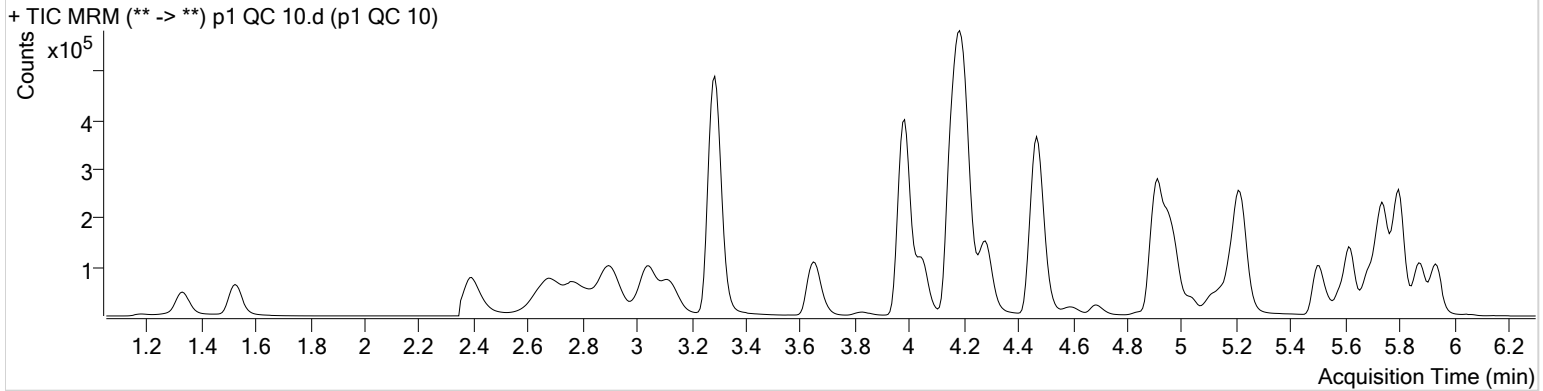
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 10.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 10
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-H11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 12:53:13 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	2413	69.86	68.8	3719.80	52578	1.0253 ng/ml
7-aminoclonazepam	4.237	35963	648.50	82.3	286.51	171744	9.4623 ng/ml
a-hydroxyalprazolam	5.680	8236	385.73	64.4	1087.84	18091	9.9255 ng/ml
alpha-PVP	4.290	69141	2719.86	50.6	240.00	330551	10.1333 ng/ml
Alprazolam	5.756	56180	202.40	98.6	230.56	138520	10.5198 ng/ml
Amphetamine	2.873	153358	3188.30	52.9	626.11	176815	10.3032 ng/ml
Benzoylcegonine	3.847	5296	425.86	7.0	18.99	19052	10.6335 ng/ml
Buprenorphine	5.875	1303	23.05	18.8	∞	57349	0.9408 ng/ml
Bupropion	4.705	9226	428.86	57.9	17.23	50676	10.6569 ng/ml
Carisoprodol	5.705	27303	20965.47	59.0	161.00	133221	10.4162 ng/ml
Citalopram	5.147	17844	200.09	42.2	11088.70	82889	9.6933 ng/ml
Clonazepam	5.593	18305	457.10	33.6	963.96	21580	10.2871 ng/ml
Cocaine	4.196	120495	4427.85	45.9	2663.41	980524	10.0193 ng/ml
Codeine	2.436	15114	255.03	103.4	181.51	66183	10.4225 ng/ml
Cyclobenzaprine	5.590	20189	411.43	9.2	100.00	72407	10.1861 ng/ml
Dextromethorphan	5.197	11501	173.73	81.5	192.64	51954	10.1799 ng/ml
Dextrophan	4.051	21603	2196.60	207.1	1150.86	266916	10.5487 ng/ml
Diazepam	5.941	41183	415.53	85.7	789.41	182331	10.2114 ng/ml
Dihydrocodeine	2.407	35827	604.96	68.9	291.01	193607	9.7552 ng/ml
Diphenhydramine	5.225	59313	5642.41	33.8	42187.99	435732	10.2907 ng/ml
Doxylamine	4.480	219707	3418.93	97.2	∞	895384	9.8569 ng/ml
EDDP	5.196	55882	753.69	42.1	54.29	292585	10.2973 ng/ml
Fentanyl	5.052	1628	26.92	62.5	520.91	82978	1.0745 ng/ml
Fluoxetine	5.675	19160	403.37	8.5	200.74	71618	11.0977 ng/ml
Hydrocodone	2.930	41463	138.37	39.9	63.37	269757	9.5497 ng/ml
Hydromorphone	1.533	39143	181.85	78.1	1493.83	148713	9.7433 ng/ml
Ketamine	3.992	103302	1046.67	37.7	229.27	498077	10.0282 ng/ml
Lamotrigine	4.214	7803	551.30	79.8	4488.41	498077	10.3893 ng/ml
Lorazepam	5.734	37930	∞	52.4	53.53	21580	11.2888 ng/ml
* Meprobamate	<del>4.861</del>	<del>2435</del>	<del>121.98</del>	<del>33.1</del> <b>High</b>	<del>118.58</del>	<del>16200</del>	<del>9.1549</del> ng/ml
Methadone	5.621	51314	1854.31	55.8	874.26	246376	10.1462 ng/ml
Methamphetamine	3.114	103497	2361.75	42.4	401.65	414439	9.5141 ng/ml
Metoprolol	4.259	10469	4023.66	100.4	2331.64	1206660	10.1384 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	34985	1402.08	49.0	440.06	330551	7.2984 ng/ml
Mitragynine	5.193	5024	21399.30	39.3	147.91	246376	8.2214 ng/ml
Morphine	1.186	5167	232.65	23.9	438.13	5100	10.3434 ng/ml
Nordiazepam	5.881	35396	869.58	54.5	1142.30	107508	10.6900 ng/ml
Norfentanyl	4.006	13573	1685.49	38.0	51.84	673565	0.9786 ng/ml
Norhydrocodone	2.965	4386	93.68	42.7	∞	46705	8.7925 ng/ml
Noroxycodone	2.783	36409	202.77	49.1	424.13	118393	10.0910 ng/ml
O-desmethyl-tramadol	3.295	259313	951.41	6.1	∞	1401251	9.9347 ng/ml
Oxazepam	5.738	46523	457.10	74.1	749.85	284042	10.3347 ng/ml
Oxycodone	2.707	88609	168.03	31.5	314.82	403757	10.2053 ng/ml
Oxymorphone	1.337	38584	99.59	48.9	249.05	139572	9.7686 ng/ml
Phentermine	3.684	31549	623.27	2.6	57.77	380690	10.2556 ng/ml
Promethazine	5.500	45937	1126.54	31.7	151.38	198806	10.3989 ng/ml
Quetiapine	5.537	29409	388.28	58.1	∞	36537	10.9315 ng/ml
Sertraline	5.750	10656	118.29	86.7	1253.22	43337	10.5419 ng/ml
Temazepam	5.805	99873	396.02	28.3	192.90	503611	10.2668 ng/ml
Tramadol	4.179	247700	1470.77	3.4	84.41	1206660	10.4795 ng/ml
Trazodone	5.167	33897	1149.51	78.2	709.21	136306	9.5506 ng/ml
Venlafaxine	4.966	76988	275.86	37.1	619.27	428077	10.0204 ng/ml
Zolpidem	4.932	172888	3989.30	31.2	∞	799350	9.8921 ng/ml



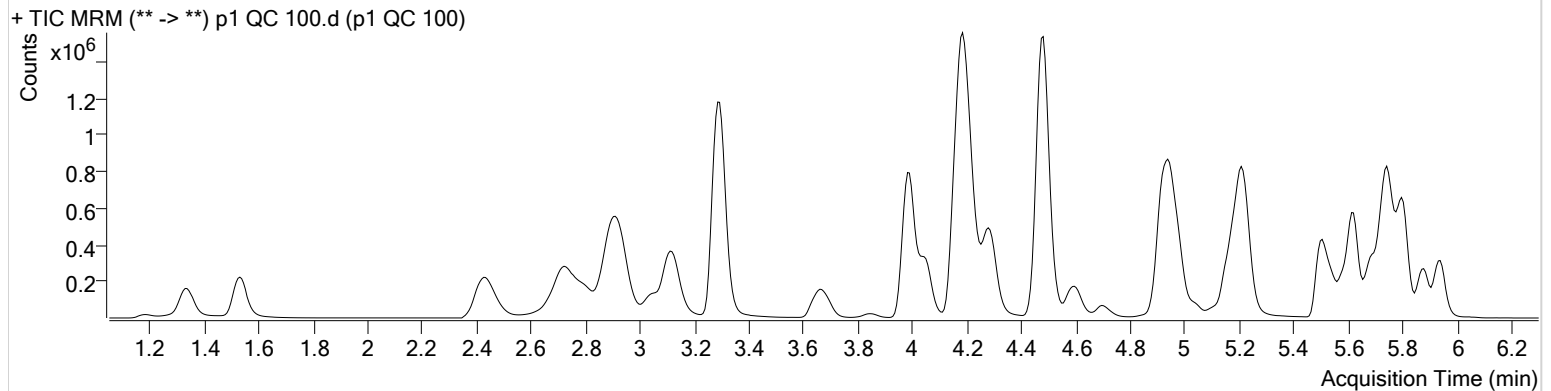


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

**Instrument** Falco **Data File** p1 QC 100.d  
**Type** QC **Sample** p1 QC 100  
**Acq. Method** MDQ P1 01112020.m **Operator** Sarah Pickle  
**Sample Position** P1-G11 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 3/31/2020 1:14:23 PM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	22987	1131.72	71.4	317.65	51813	10.0923 ng/ml
7-aminoclonazepam	4.237	329389	∞	82.0	∞	154218	94.7069 ng/ml
a-hydroxyalprazolam	5.680	75842	737.28	62.5	910.58	16991	101.4204 ng/ml
alpha-PVP	4.290	668251	20849.38	50.8	3102.58	329149	93.7631 ng/ml
Alprazolam	5.756	482542	40465.45	103.9	1445.69	126536	96.9523 ng/ml
Amphetamine	2.900	1458103	26324.81	53.4	9705.08	179751	104.8012 ng/ml
Benzoylcegonine	3.847	45302	3660.38	7.8	484.45	17963	98.1414 ng/ml
Buprenorphine	5.875	18809	159.54	16.7	7555.96	77009	9.8808 ng/ml
Bupropion	4.705	101461	1199.55	61.4	298.98	57462	100.7069 ng/ml
Carisoprodol	5.705	242140	∞	52.7	662.08	121458	101.9833 ng/ml
Citalopram	5.155	207218	4471.28	41.4	1541.00	99805	96.6891 ng/ml
Clonazepam	5.593	160162	394.89	33.6	499.44	20155	98.6837 ng/ml
Cocaine	4.196	1140581	74477.41	45.3	16102.32	932793	95.0333 ng/ml
Codeine	2.456	147029	2751.01	100.8	630.49	65127	103.6621 ng/ml
Cyclobenzaprine	5.590	281338	2883.09	9.6	660.65	107129	97.6102 ng/ml
Dextromethorphan	5.204	140683	538.07	78.4	159.48	64945	98.4987 ng/ml
Dextrorphan	4.051	212409	1474.50	210.5	1869.19	268928	101.6148 ng/ml
Diazepam	5.941	355694	2308.57	88.8	14596.56	168007	99.3936 ng/ml
Dihydrocodeine	2.427	358701	1119.74	68.4	761.35	206648	98.1862 ng/ml
Diphenhydramine	5.225	695108	1227.93	33.9	8029.29	528890	96.1379 ng/ml
Doxylamine	4.480	2256032	67834.20	96.0	380003.44	927770	99.6592 ng/ml
EDDP	5.196	545221	1471.54	42.0	2878.21	298478	98.4864 ng/ml
Fentanyl	5.046	23143	224.38	58.7	326.36	131359	9.7807 ng/ml
Fluoxetine	5.675	272900	1105.86	8.8	630.06	115434	99.2838 ng/ml
Hydrocodone	2.937	397249	772.92	39.1	182.12	256303	102.0754 ng/ml
Hydromorphone	1.533	359913	1873.97	77.3	2276.98	139183	98.1349 ng/ml
Ketamine	3.992	989224	28834.77	38.1	4247.13	488999	101.7472 ng/ml
Lamotrigine	4.207	68150	4262.14	80.6	18744.44	488999	101.9545 ng/ml
Lorazepam	5.728	279329	∞	56.3	1820.71	20155	96.6145 ng/ml
Meprobamate	4.861	21345	619.48	25.9	269.32	16451	96.3848 ng/ml
Methadone	5.621	671171	11027.47	54.3	4329.83	329032	95.6451 ng/ml
Methamphetamine	3.114	960713	6016.64	42.2	15292.65	407704	105.5039 ng/ml
Metoprolol	4.259	102158	6395.29	98.2	9412.40	1233911	103.2698 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	401676	15549.03	49.3	3171.48	329149	89.6680 ng/ml
Mitragynine	5.193	64554	53707.81	38.7	699.74	329032	89.0354 ng/ml
Morphine	1.186	44245	414.89	23.3	171.91	4594	97.5705 ng/ml
Norbuprenorphine	4.929	721	95.30	82.9	162.89	3544	11.2049 ng/ml
Nordiazepam	5.881	315064	6965.93	58.0	2343.51	101619	102.5931 ng/ml
Norfentanyl	4.006	133209	5383.49	37.6	1634.41	672117	9.8189 ng/ml
Norhydrocodone	2.972	45810	531.55	41.3	101.73	41468	99.1120 ng/ml
Noroxycodone	2.796	350219	1345.81	49.0	5206.42	116576	96.4743 ng/ml
O-desmethyl-tramadol	3.295	2547301	26113.74	6.1	1770.63	1382138	100.0304 ng/ml
Oxazepam	5.738	376284	5687.54	69.8	∞	236036	104.8979 ng/ml
Oxycodone	2.727	869174	1275.51	32.2	∞	403484	103.7110 ng/ml
Oxymorphone	1.337	370933	482.59	48.0	∞	131068	102.9945 ng/ml
Phentermine	3.684	307792	3624.56	2.6	353.23	386795	104.0980 ng/ml
Promethazine	5.507	667976	29603.40	30.1	552.01	301956	97.4363 ng/ml
Quetiapine	5.537	327605	35272.77	58.5	∞	42738	102.2784 ng/ml
Sertraline	5.743	138654	699.84	89.0	52663.87	60747	99.8234 ng/ml
Temazepam	5.805	873918	7385.16	29.8	411.67	455807	98.2643 ng/ml
Tramadol	4.172	2348795	171306.89	3.4	246.57	1233911	102.6402 ng/ml
Trazodone	5.167	401975	22877.54	77.6	∞	182390	97.5257 ng/ml
Venlafaxine	4.966	806970	1004.05	35.5	1474.57	438396	97.2427 ng/ml
Zolpidem	4.932	1683553	36334.42	29.8	123266.28	788136	101.5352 ng/ml

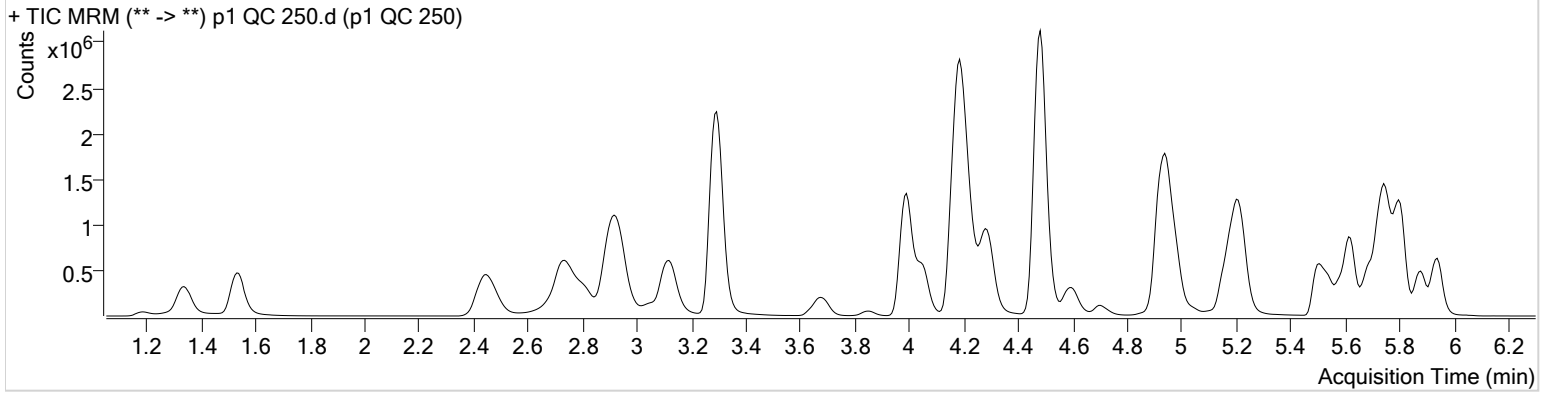


# AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
Calibration Last Update 4/1/2020 9:40:59 AM

Instrument Falco Data File p1 QC 250.d  
Type QC Sample p1 QC 250  
Acq. Method MDQ P1 01112020.m Operator Sarah Pickle  
Sample Position P1-F11 Comment  
Injection Volume 2  
Acq. Date-Time 3/31/2020 1:35:35 PM  
Sample Info.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	57023	2631.20	70.6	665.30	50154	25.8961 ng/ml
7-aminoclonazepam	4.237	730352	∞	81.3	12512.32	133114	242.9766 ng/ml
a-hydroxyalprazolam	5.680	174837	2999.14	63.2	421.89	15792	252.2339 ng/ml
alpha-PVP	4.297	1511959	8047.91	51.2	6270.41	290826	239.2768 ng/ml
Alprazolam	5.756	1088649	10020.73	101.4	13071.34	107557	256.9405 ng/ml
Amphetamine	2.907	2704726	17396.11	52.7	28413.01	141729	247.9220 ng/ml
Benzoylcegonine	3.847	115761	16800.85	7.8	1350.55	17399	259.2552 ng/ml
Buprenorphine	5.869	33194	285.27	17.0	92.15	55384	24.2105 ng/ml
Bupropion	4.705	203063	198002.94	59.7	306.05	45478	254.1993 ng/ml
Carisoprodol	5.705	528077	497636.84	54.3	2013.86	104549	258.5017 ng/ml
Citalopram	5.147	368335	1241.79	41.1	1752.41	68872	249.6426 ng/ml
Clonazepam	5.593	375025	2495.54	33.9	59878.48	18947	246.2044 ng/ml
Cocaine	4.196	2531257	112945.92	44.9	77509.48	805671	243.3649 ng/ml
Codeine	2.476	330780	656.07	102.1	1410.49	58968	257.6752 ng/ml
Cyclobenzaprine	5.590	460041	630.27	9.4	6229.61	67204	254.7548 ng/ml
Dextromethorphan	5.204	222844	1952.26	78.8	743.04	40062	252.7303 ng/ml
Dextrorphan	4.051	442461	22219.55	209.4	48619.82	224265	253.5968 ng/ml
Diazepam	5.941	850106	11133.49	87.0	3472.44	158799	251.9966 ng/ml
Dihydrocodeine	2.441	860189	2063.24	66.6	1896.75	171359	285.4540 ng/ml
Diphenhydramine	5.225	1160960	29055.99	33.7	2917.20	342474	247.3817 ng/ml
Doxylamine	4.480	4959253	56314.30	96.4	262179.75	808066	251.8638 ng/ml
EDDP	5.196	1201336	6965.54	42.4	12890.94	257358	251.6778 ng/ml
Fentanyl	5.046	39514	807.34	58.5	62448.34	85883	25.5675 ng/ml
Fluoxetine	5.675	422543	10655.23	8.8	426.87	70135	253.2544 ng/ml
Hydrocodone	2.937	894900	564.90	39.7	∞	233228	253.6392 ng/ml
Hydromorphone	1.533	871748	1705.96	78.1	2452.74	142165	233.0844 ng/ml
Ketamine	3.992	2302866	3554.06	38.1	2466.56	458510	253.2793 ng/ml
Lamotrigine	4.214	143613	23569.56	79.5	62730.31	458510	230.6393 ng/ml
Lorazepam	5.728	559008	1982.15	57.2	∞	18947	206.9136 ng/ml
Meprobamate	4.861	53729	4133.18	25.4	844.22	15948	253.9000 ng/ml
Methadone	5.621	1165336	4887.72	53.1	3283.22	219176	248.6218 ng/ml
Methamphetamine	3.121	1662863	13762.76	42.5	30900.00	291580	257.9884 ng/ml
Metoprolol	4.259	213615	15684.90	96.2	9402.23	1106463	241.8288 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
* Mirtazapine	<del>4.596</del>	<del>722779</del>	<del>16053.04</del>	<del>48.9</del>	<del>3808.87</del>	<del>290826</del>	<del>183.1538 ng/ml</del>
Mitragynine	5.193	105628	∞	38.1	167757.97	219176	220.3846 ng/ml
Morphine	1.186	115066	1198.55	23.0	350.70	4603	253.1346 ng/ml
Norbuprenorphine	4.922	1144	60.37	87.8	68.51	2319	27.4319 ng/ml
Nordiazepam	5.881	724366	∞	57.3	7345.87	92500	259.4755 ng/ml
Norfentanyl	4.006	284252	7149.25	37.1	1982.18	560832	25.1441 ng/ml
Norhydrocodone	2.979	103001	460.59	39.8	84.86	37122	248.3274 ng/ml
Noroxycodone	2.803	807796	854.58	48.3	719.93	105209	246.1889 ng/ml
O-desmethyl-tramadol	3.295	6070164	67108.57	6.0	1063.22	1289939	255.5966 ng/ml
Oxazepam	5.731	767146	31850.25	71.5	∞	199436	253.8026 ng/ml
Oxycodone	2.733	2099809	5141.37	32.1	3556.54	387424	261.5464 ng/ml
Oxymorphone	1.337	845649	2000.20	49.3	∞	126158	244.3881 ng/ml
Phentermine	3.684	569774	∞	2.5	755.37	290281	257.7320 ng/ml
Promethazine	5.500	1068146	760.78	30.3	2770.85	192172	244.4440 ng/ml
Quetiapine	5.537	617184	1905.80	60.3	785.80	31364	262.2247 ng/ml
Sertraline	5.743	190976	597.62	89.3	819.54	33568	249.1698 ng/ml
Temazepam	5.805	2146073	85095.88	29.0	1057.28	431424	254.7616 ng/ml
Tramadol	4.172	5303294	82510.70	3.3	1683.04	1106463	259.4456 ng/ml
Trazodone	5.167	738559	314.12	77.1	128059.53	137314	240.3680 ng/ml
Venlafaxine	4.973	1691863	2309.65	36.1	2173.26	362795	245.4771 ng/ml
Zolpidem	4.932	3978664	719464.01	30.6	1185.04	759095	249.7617 ng/ml

\*Outside curve range

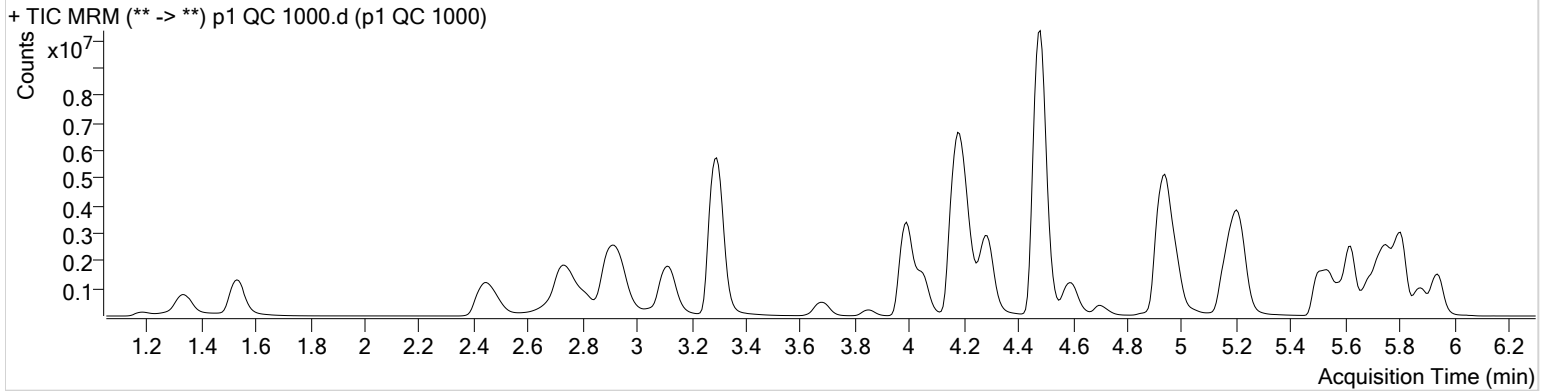
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 QC 1000.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 1000
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-E11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 1:56:47 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	216115	∞	70.9	10144.48	49056	100.4010 ng/ml
7-aminoclonazepam	4.237	1625791	26291.67	81.4	∞	68898	1044.3405 ng/ml
a-hydroxyalprazolam	5.680	498755	1118.54	62.4	927.40	11671	974.9718 ng/ml
alpha-PVP	4.290	5353180	28654.34	50.6	31451.96	245607	1001.4639 ng/ml
Alprazolam	5.763	2755673	2234.94	101.7	2649.26	68757	1016.7215 ng/ml
* Amphetamine	<del>2.900</del>	<del>6828997</del>	<del>89001.21</del>	<del>52.6</del>	<del>∞</del>	<del>115292</del>	<del>771.6224 ng/ml</del>
Benzoylcegonine	3.847	505349	19797.40	8.0	1027.02	17956	1097.3448 ng/ml
Buprenorphine	5.869	102609	∞	15.8	383.32	43178	95.9249 ng/ml
Bupropion	4.705	732809	1699.04	58.8	1312.37	40595	1026.7711 ng/ml
Carisoprodol	5.705	1356346	1110220.61	53.6	∞	68607	1012.0001 ng/ml
Citalopram	5.147	1052323	3312.18	40.8	2683.86	49839	986.6788 ng/ml
Clonazepam	5.593	1019797	54774.40	33.9	2650.99	13012	975.6969 ng/ml
Cocaine	4.196	7156878	389578.42	45.4	128639.57	568177	974.1400 ng/ml
Codeine	2.476	957755	∞	101.5	1407.92	42351	1039.0472 ng/ml
Cyclobenzaprine	5.590	1346857	1218.36	9.3	4350.55	50465	993.8039 ng/ml
Dextromethorphan	5.204	564506	18850.21	78.7	624.72	25749	995.7070 ng/ml
Dextrorphan	4.051	1398911	4777.44	211.4	5179.06	173145	1038.0365 ng/ml
Diazepam	5.941	2402152	4077.08	86.8	5656.14	112794	1003.8050 ng/ml
Dihydrocodeine	2.441	2683464	3468.91	66.7	∞	177798	859.8587 ng/ml
Diphenhydramine	5.225	3503563	7102122.37	33.8	2041.10	253746	1006.4586 ng/ml
Doxylamine	4.480	18154078	549257.51	96.3	579038.58	748620	995.8530 ng/ml
EDDP	5.196	4902326	1236.85	41.8	18833.88	256368	1030.9950 ng/ml
Fentanyl	5.052	132825	503.20	58.7	1017.85	73260	100.8021 ng/ml
Fluoxetine	5.675	1078444	18973.91	9.2	913.69	46515	975.0404 ng/ml
Hydrocodone	2.937	2715717	∞	40.4	1278.68	193172	931.0084 ng/ml
Hydromorphone	1.533	2797478	1184.36	78.0	1199.03	111793	952.0319 ng/ml
Ketamine	3.992	7461185	641074.09	37.3	22934.06	385329	977.7461 ng/ml
* Lamotrigine	<del>4.214</del>	<del>276854</del>	<del>5615.20</del>	<del>79.4</del>	<del>19382.02</del>	<del>385329</del>	<del>530.6230 ng/ml</del>
* Lorazepam	<del>5.721</del>	<del>894858</del>	<del>∞</del>	<del>56.1</del>	<del>∞</del>	<del>13012</del>	<del>483.7797 ng/ml</del>
Meprobamate	4.861	194189	1142.85	25.3	352.28	14805	995.1192 ng/ml
Methadone	5.621	3873551	2522.67	53.0	148337.73	182899	989.0650 ng/ml
Methamphetamine	3.114	5365286	∞	42.0	67989.16	262887	928.0708 ng/ml
Metoprolol	4.259	597272	5716.48	96.3	∞	850206	881.9728 ng/ml



# AM #28 Multi-Drug Quant. Results

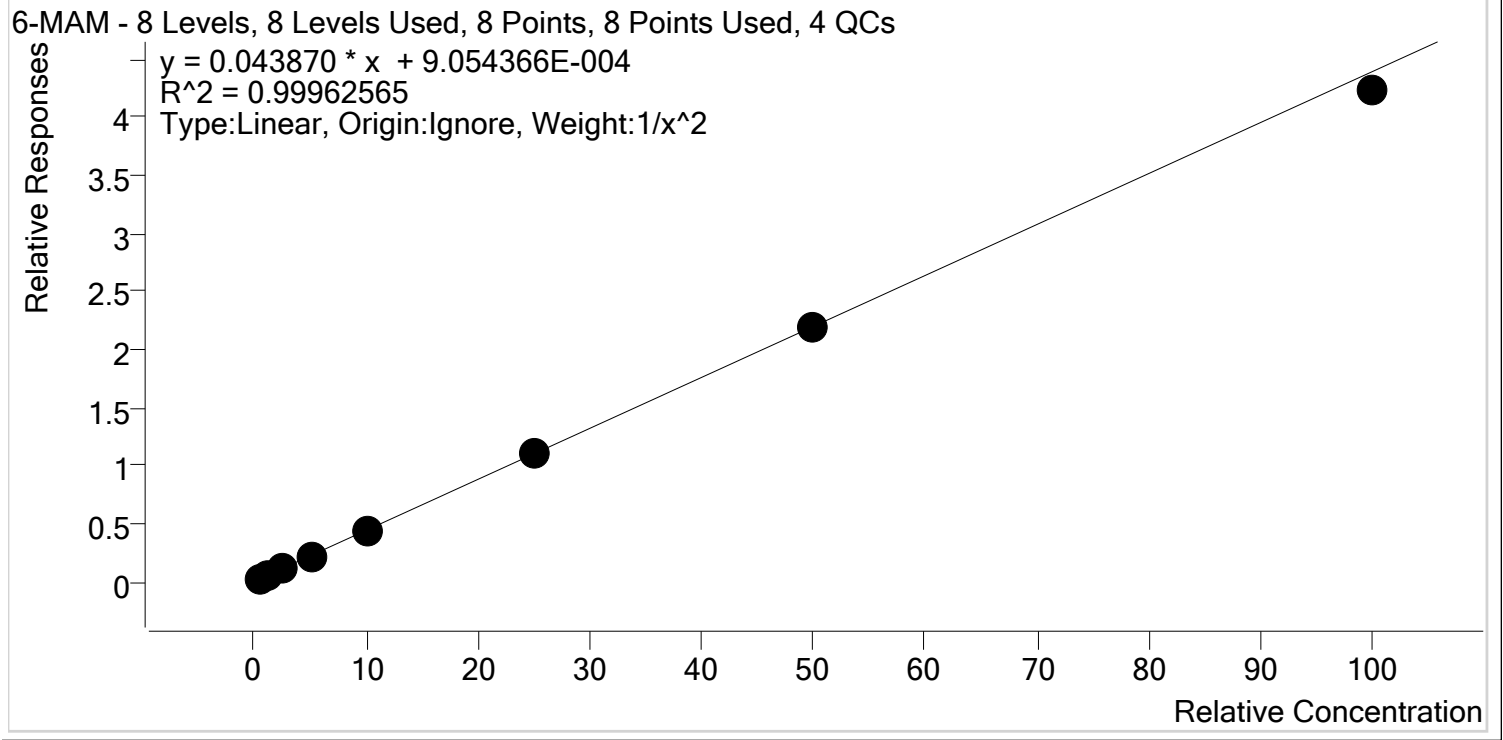
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
* <del>Mirtazapine</del>	4.596	<del>2891423</del>	<del>24066.58</del>	<del>48.5</del>	<del>17740.70</del>	<del>245607</del>	<del>869.5480 ng/ml</del>
* <del>Mitragynine</del>	5.193	<del>285392</del>	<del>698763.70</del>	<del>40.8</del>	<del>14557.41</del>	<del>182899</del>	<del>716.1287 ng/ml</del>
Morphine	1.186	408066	9124.79	24.2	899.29	4241	973.9830 ng/ml
Norbuprenorphine	4.922	2724	79.60	88.5	61.67	1506	101.0841 ng/ml
Nordiazepam	5.881	1821702	6676.07	57.0	5624.89	59744	1010.9909 ng/ml
Norfentanyl	4.013	793165	56662.17	37.5	10787.62	387893	101.5087 ng/ml
Norhydrocodone	2.979	301374	653.38	47.2	577.76	22617	1191.0510 ng/ml
Noroxycodone	2.803	2148523	5382.78	48.7	2326.61	72281	952.4116 ng/ml
O-desmethyl-tramadol	3.295	19692137	332498.62	5.8	39595.28	1009052	1060.3761 ng/ml
Oxazepam	5.731	1272023	11956.41	66.5	12458.64	93435	899.5207 ng/ml
Oxycodone	2.729	7387586	14481.11	31.6	∞	354368	1007.1547 ng/ml
Oxymorphone	1.337	2595395	∞	46.7	1390.70	98759	959.0929 ng/ml
Phentermine	3.684	1757851	10046.77	2.5	729.16	250013	924.9050 ng/ml
Promethazine	5.500	3277682	1895.79	29.7	1435.17	144603	996.0898 ng/ml
Quetiapine	5.537	2555849	892.35	59.5	148689.32	30996	1098.1269 ng/ml
Sertraline	5.743	369505	11062.17	92.8	540392.61	15928	1016.7636 ng/ml
Temazepam	5.805	6161656	1614.52	27.8	8461.80	289395	1090.0621 ng/ml
Tramadol	4.165	15593177	∞	3.3	1499.05	850206	994.6359 ng/ml
* <del>Trazodone</del>	5.160	<del>2795781</del>	<del>1358.93</del>	<del>78.8</del>	<del>∞</del>	<del>156308</del>	<del>803.1466 ng/ml</del>
Venlafaxine	4.973	5119421	2184.10	36.4	24373.65	267734	1004.7402 ng/ml
Zolpidem	4.929	13162690	139205.43	29.2	237058.85	657829	954.7096 ng/ml

\*Outside curve range



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6



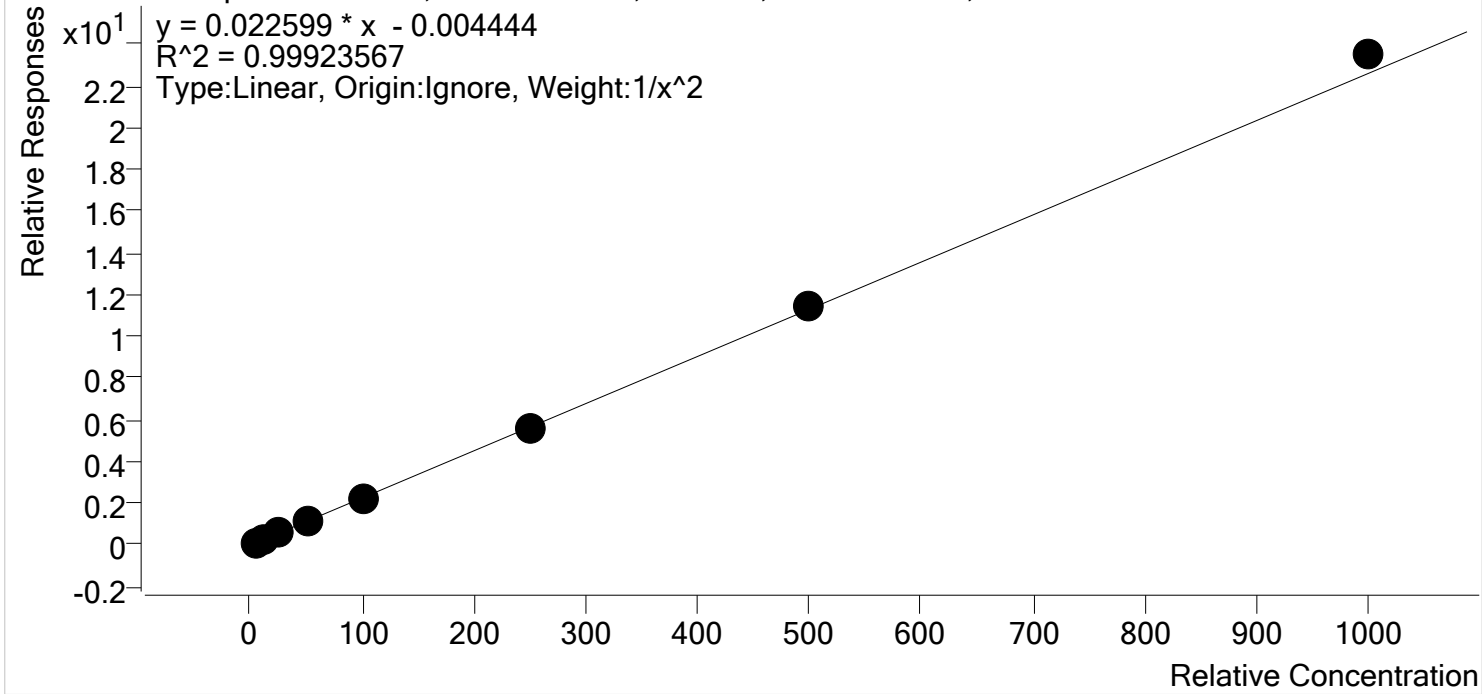
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.2
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.1
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.6
p1 Cal 4-50ng	4	✓	5.0	5.1	101.2
p1 Cal 5-100ng	5	✓	10.0	10.1	100.8
p1 Cal 6-250ng	6	✓	25.0	25.4	101.6
p1 Cal 7-500ng	7	✓	50.0	50.1	100.3
p1 Cal 8-1000ng	8	✓	100.0	96.3	96.3



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 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, 4 QCs



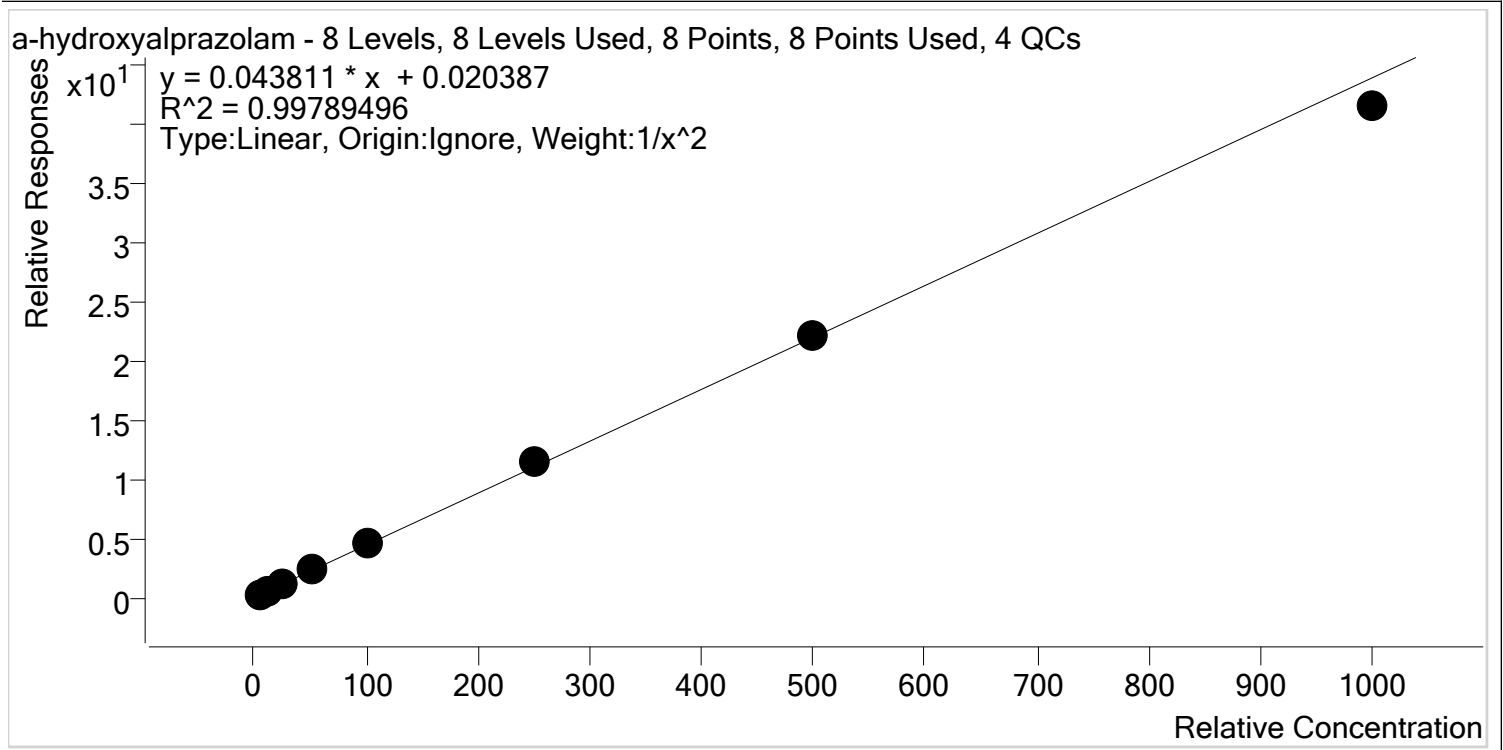
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	508.8	101.8
p1 Cal 8-1000ng	8	✓	1000.0	1040.1	104.0





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



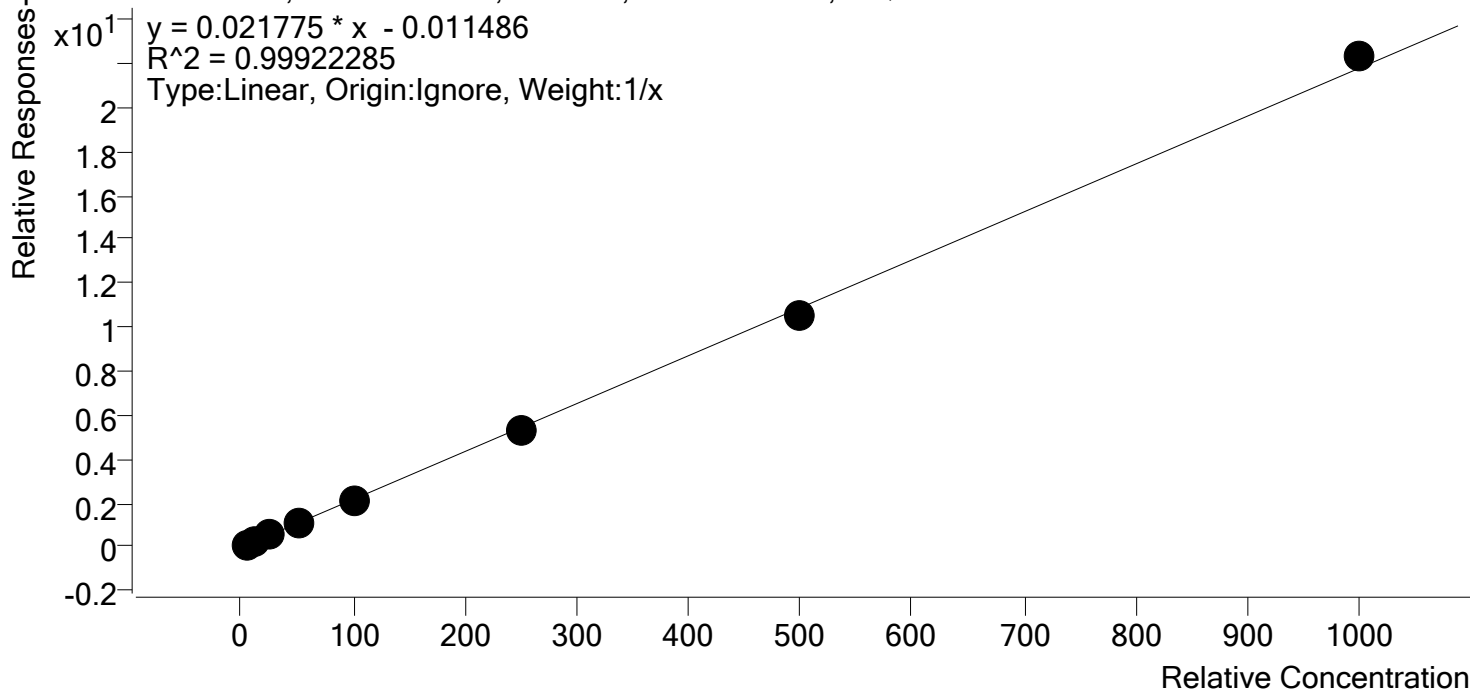
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	103.0
p1 Cal 2- 10ng	2	✓	10.0	9.4	93.6
p1 Cal 3 -25ng	3	✓	25.0	24.7	99.0
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	260.6	104.2
p1 Cal 7-500ng	7	✓	500.0	504.7	100.9
p1 Cal 8-1000ng	8	✓	1000.0	945.3	94.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8

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

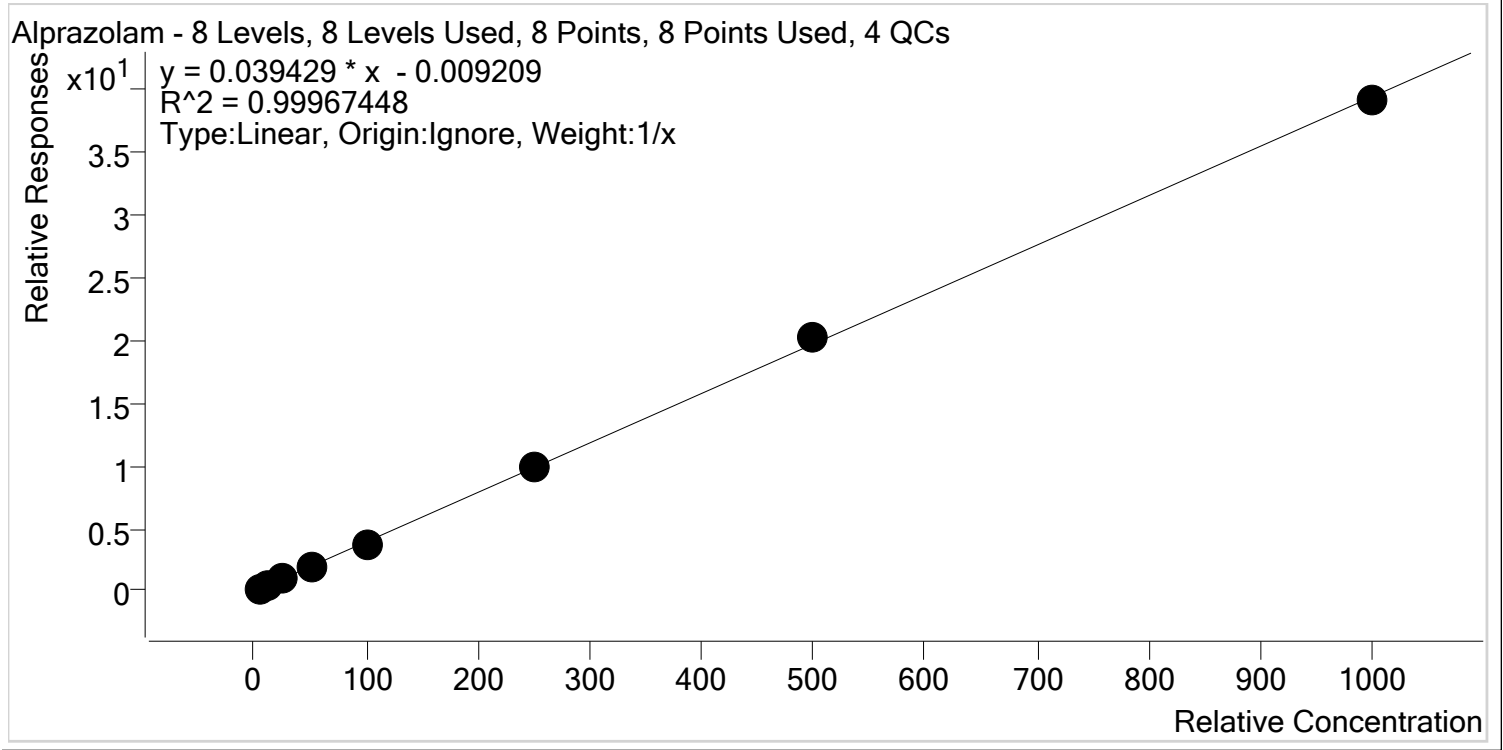


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	110.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng	5	✓	100.0	94.9	94.9
p1 Cal 6-250ng	6	✓	250.0	243.9	97.6
p1 Cal 7-500ng	7	✓	500.0	487.8	97.6
p1 Cal 8-1000ng	8	✓	1000.0	1024.3	102.4



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5



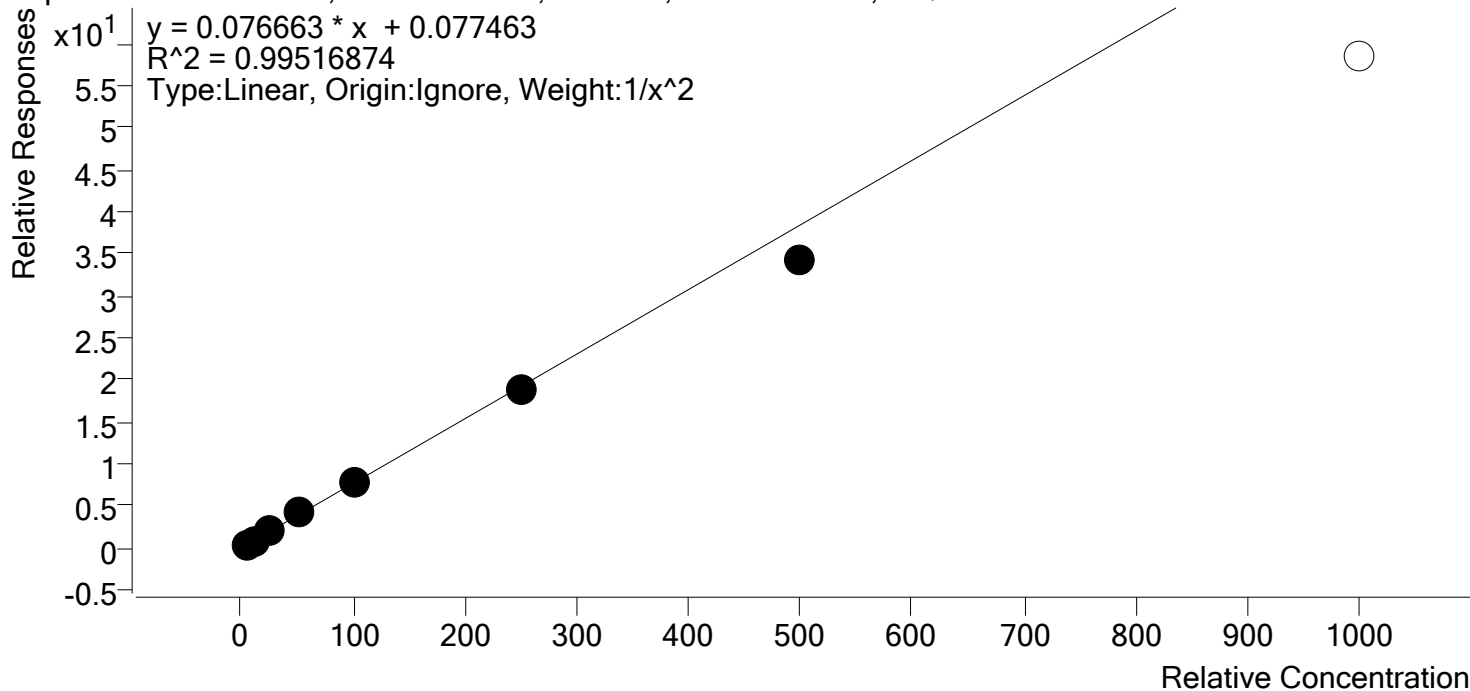
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.4
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	96.6	96.6
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	513.3	102.7
p1 Cal 8-1000ng	8	✓	1000.0	992.4	99.2



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**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
p1 Cal 1-5ng	1	✓	5.0	4.9	97.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.6
p1 Cal 4-50ng	4	✓	50.0	53.5	107.1
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	242.3	96.9
p1 Cal 7-500ng	7	✓	500.0	447.1	89.4
p1 Cal 8-1000ng	8	✗	1000.0	760.7	76.1

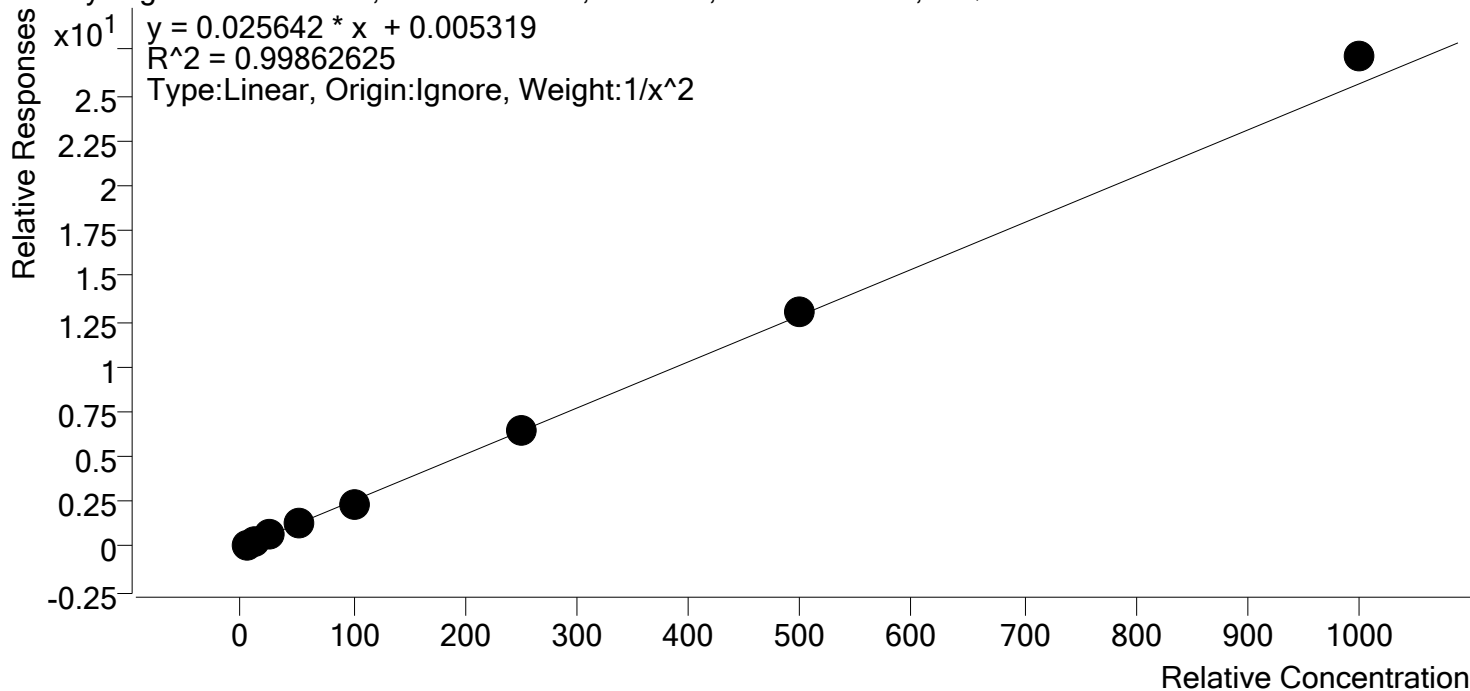
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



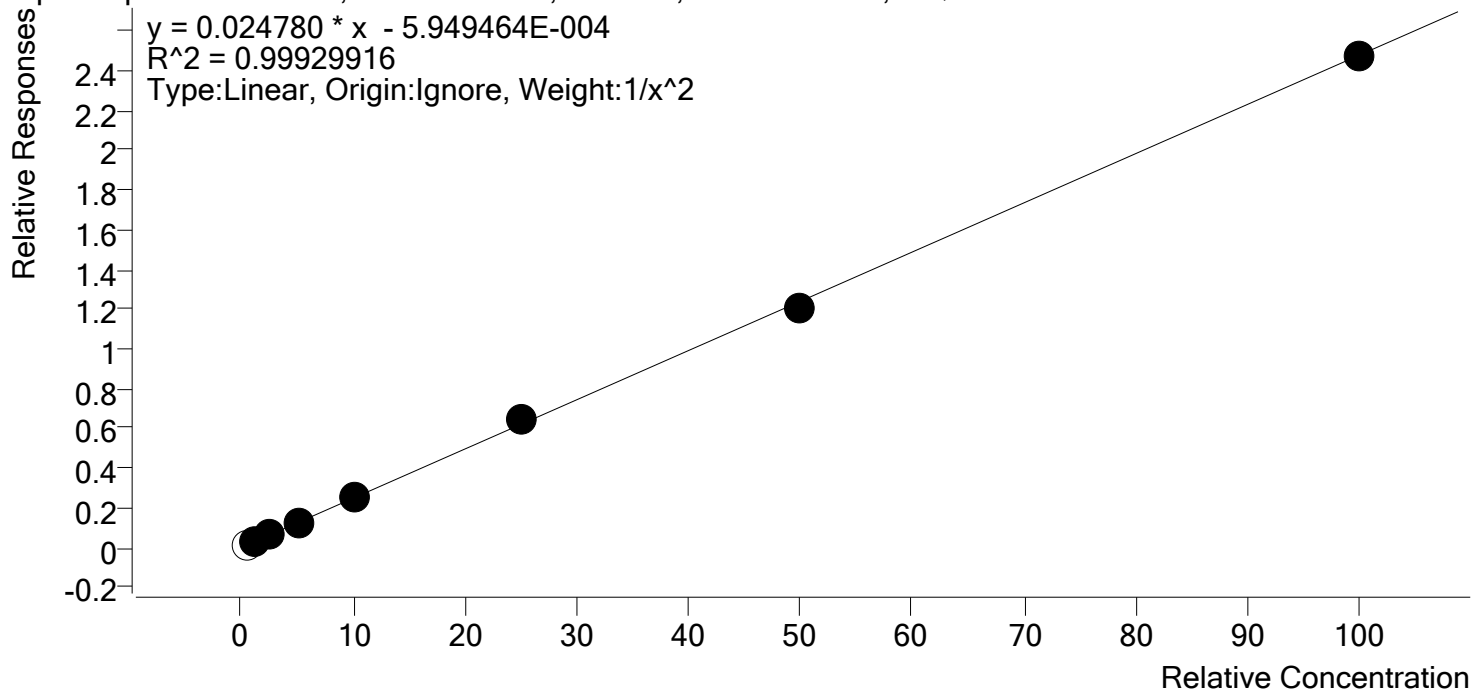
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	95.1	95.1
p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
p1 Cal 7-500ng	7	✓	500.0	507.6	101.5
p1 Cal 8-1000ng	8	✓	1000.0	1058.8	105.9



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

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

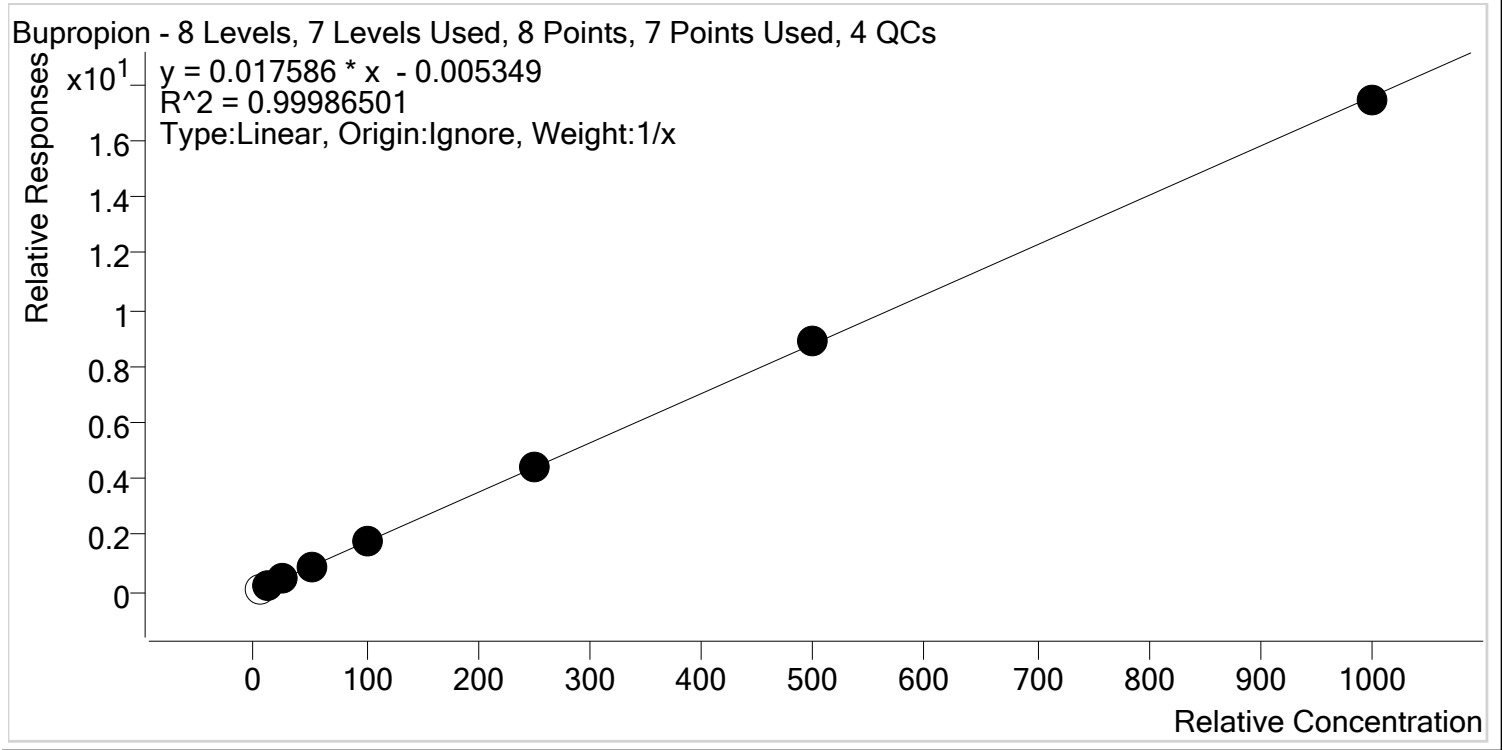


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.6	110.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	100.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.4
p1 Cal 4-50ng	4	✓	5.0	5.0	100.4
p1 Cal 5-100ng	5	✓	10.0	10.2	102.1
p1 Cal 6-250ng	6	✓	25.0	25.7	103.0
p1 Cal 7-500ng	7	✓	50.0	48.4	96.7
p1 Cal 8-1000ng	8	✓	100.0	99.7	99.7



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	5.5	110.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	49.7	99.3
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	252.6	101.1
p1 Cal 7-500ng	7	✓	500.0	507.3	101.5
p1 Cal 8-1000ng	8	✓	1000.0	991.9	99.2

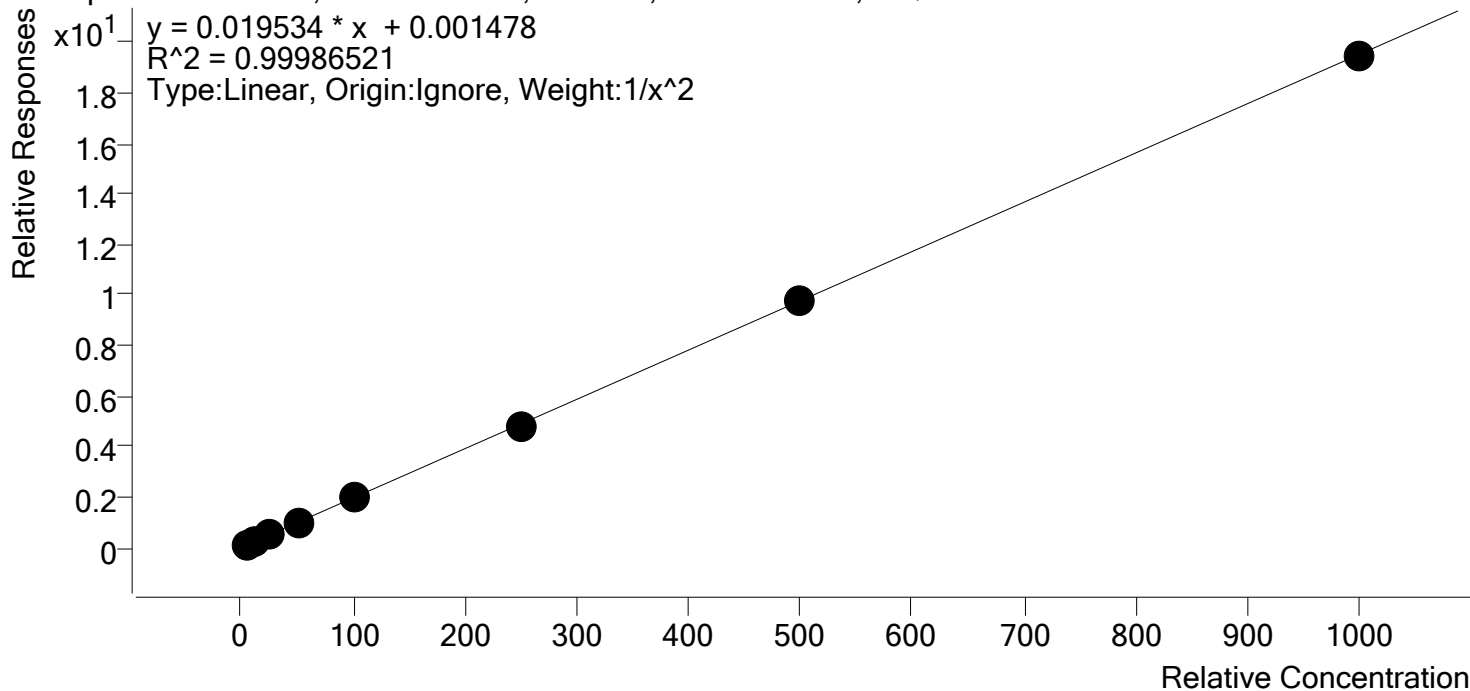
S



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

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



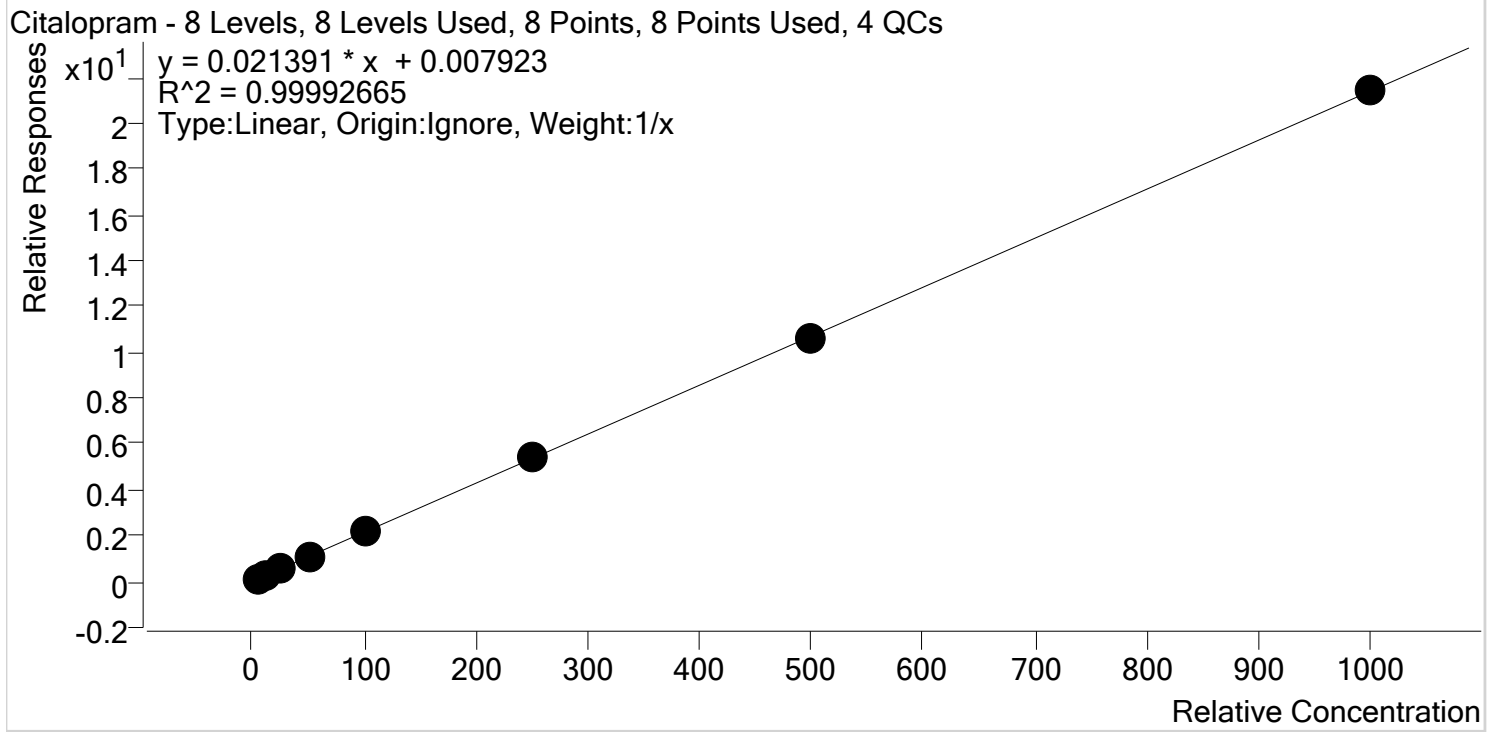
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	502.2	100.4
p1 Cal 8-1000ng	8	✓	1000.0	995.7	99.6





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

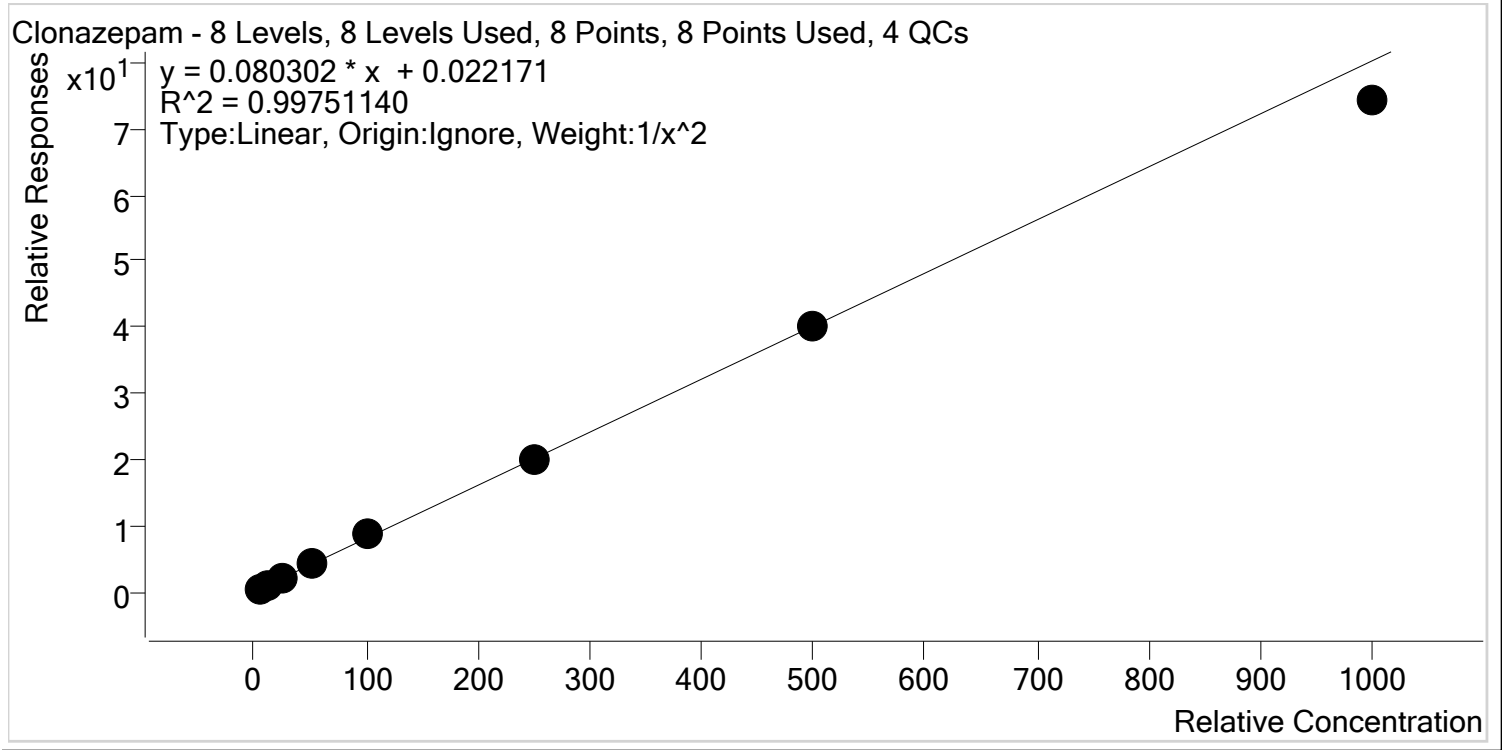


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	50.5	101.1
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	253.4	101.4
p1 Cal 7-500ng	7	✓	500.0	494.3	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1001.4	100.1



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4

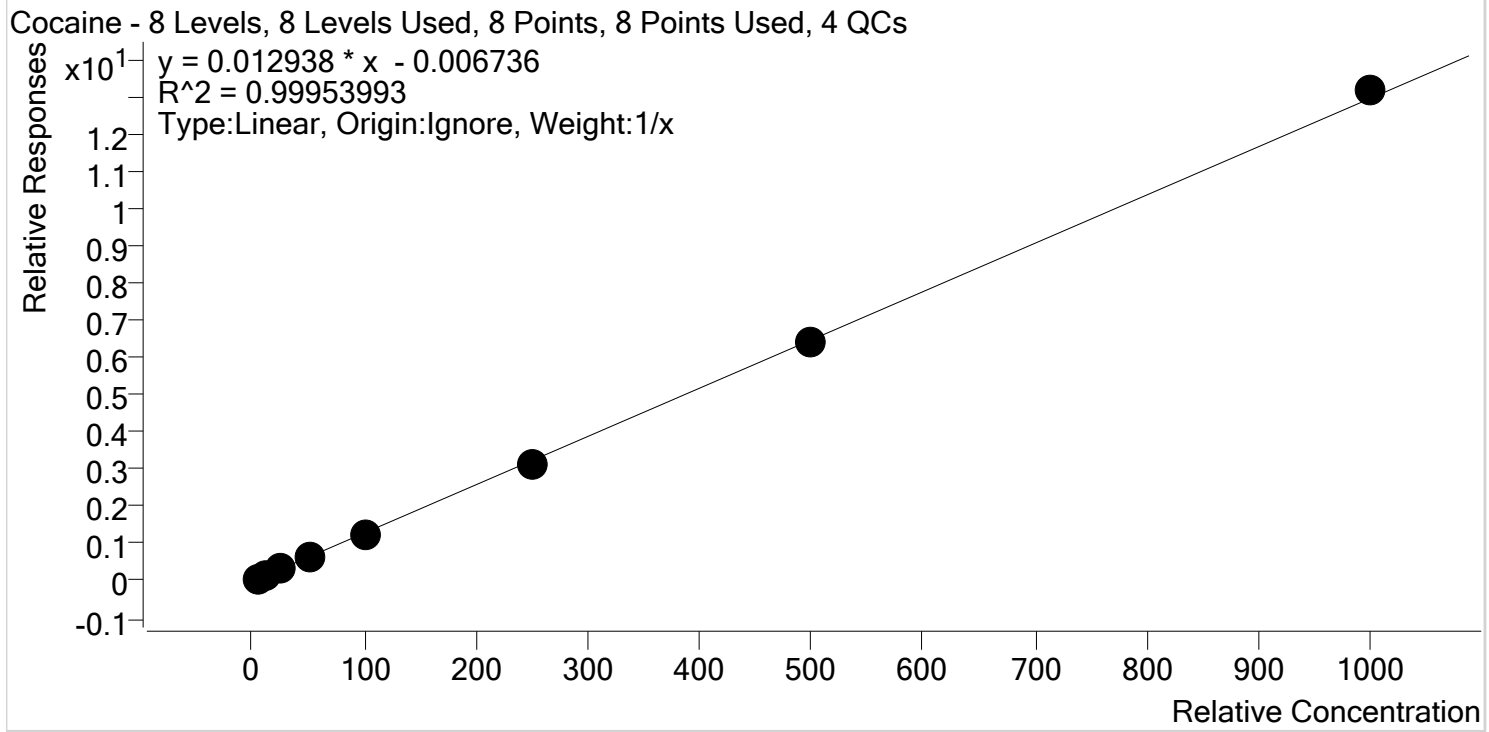


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	101.0
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.1
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.5
p1 Cal 4-50ng	4	✓	50.0	52.5	105.1
p1 Cal 5-100ng	5	✓	100.0	105.4	105.4
p1 Cal 6-250ng	6	✓	250.0	247.6	99.1
p1 Cal 7-500ng	7	✓	500.0	497.1	99.4
p1 Cal 8-1000ng	8	✓	1000.0	925.0	92.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

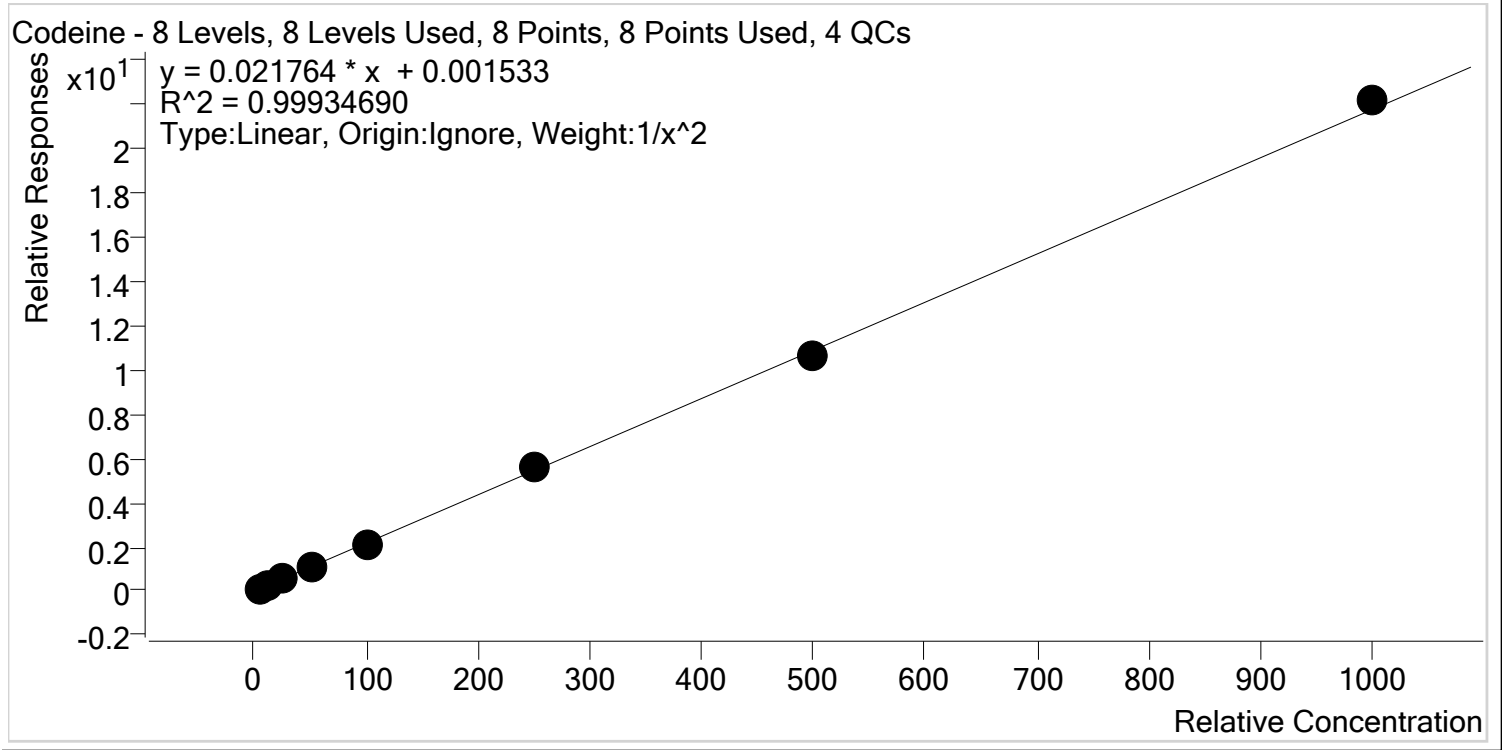


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	109.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.5
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng	5	✓	100.0	94.7	94.7
p1 Cal 6-250ng	6	✓	250.0	243.7	97.5
p1 Cal 7-500ng	7	✓	500.0	496.0	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1016.3	101.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6



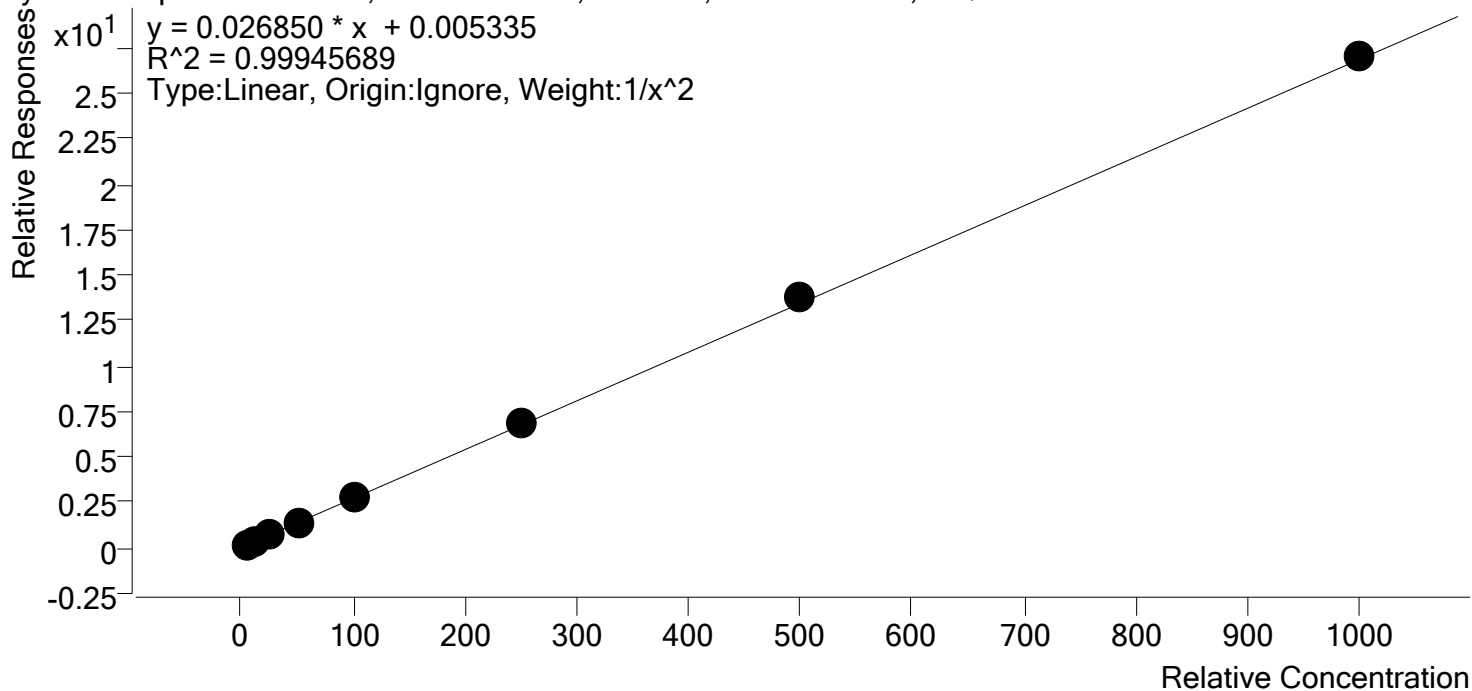
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.8
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	487.1	97.4
p1 Cal 8-1000ng	8	✓	1000.0	1018.8	101.9



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

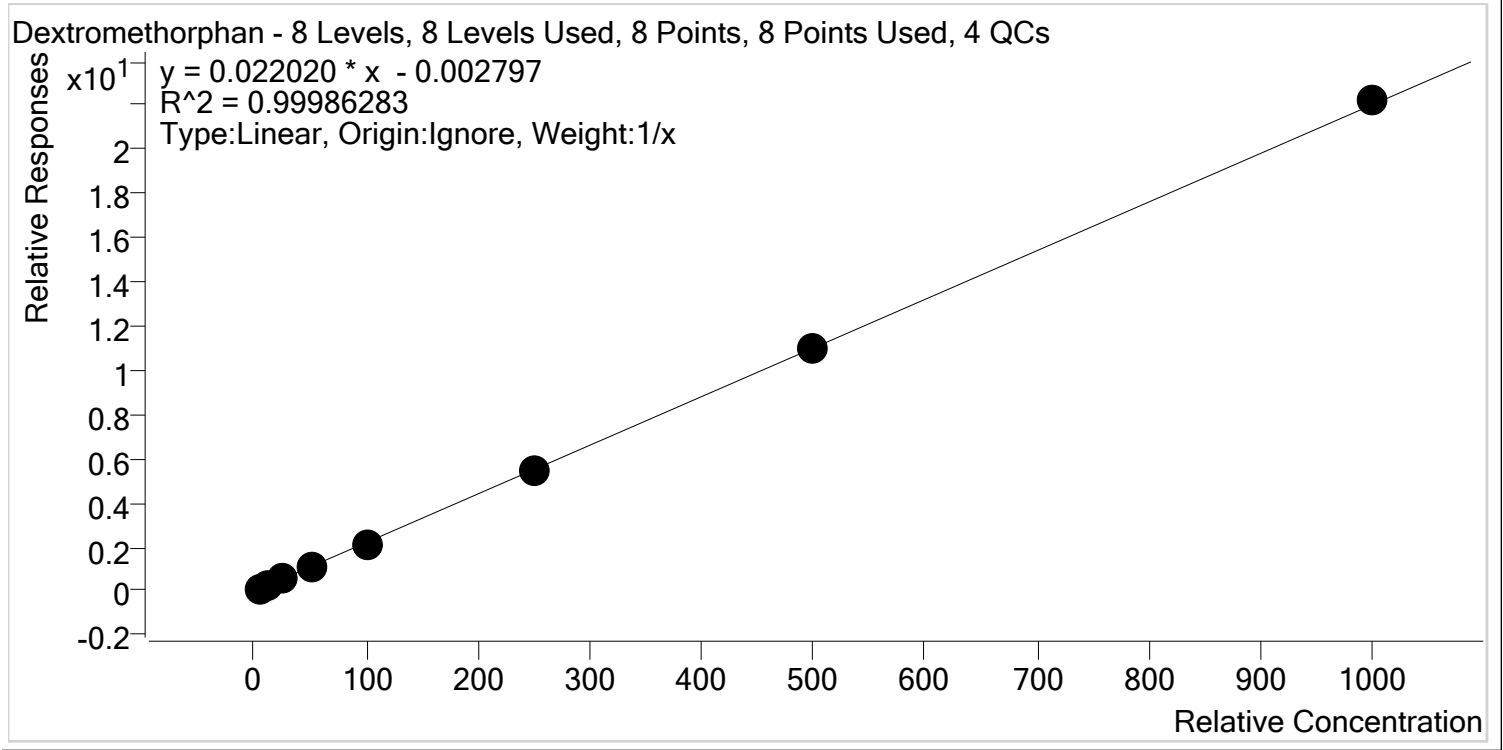


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.8
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	510.8	102.2
p1 Cal 8-1000ng	8	✓	1000.0	1006.1	100.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

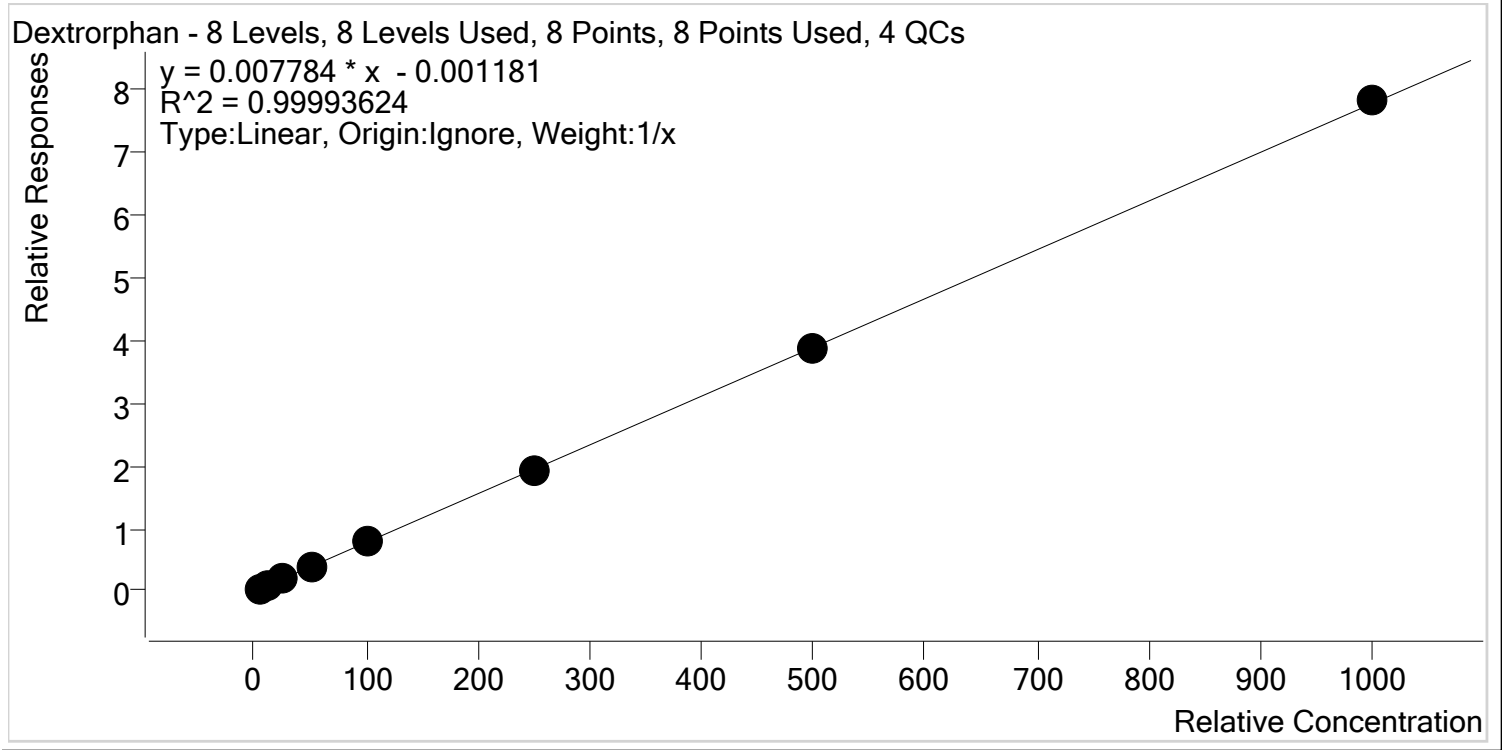


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.5
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	245.3	98.1
p1 Cal 7-500ng	7	✓	500.0	498.1	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1008.7	100.9



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

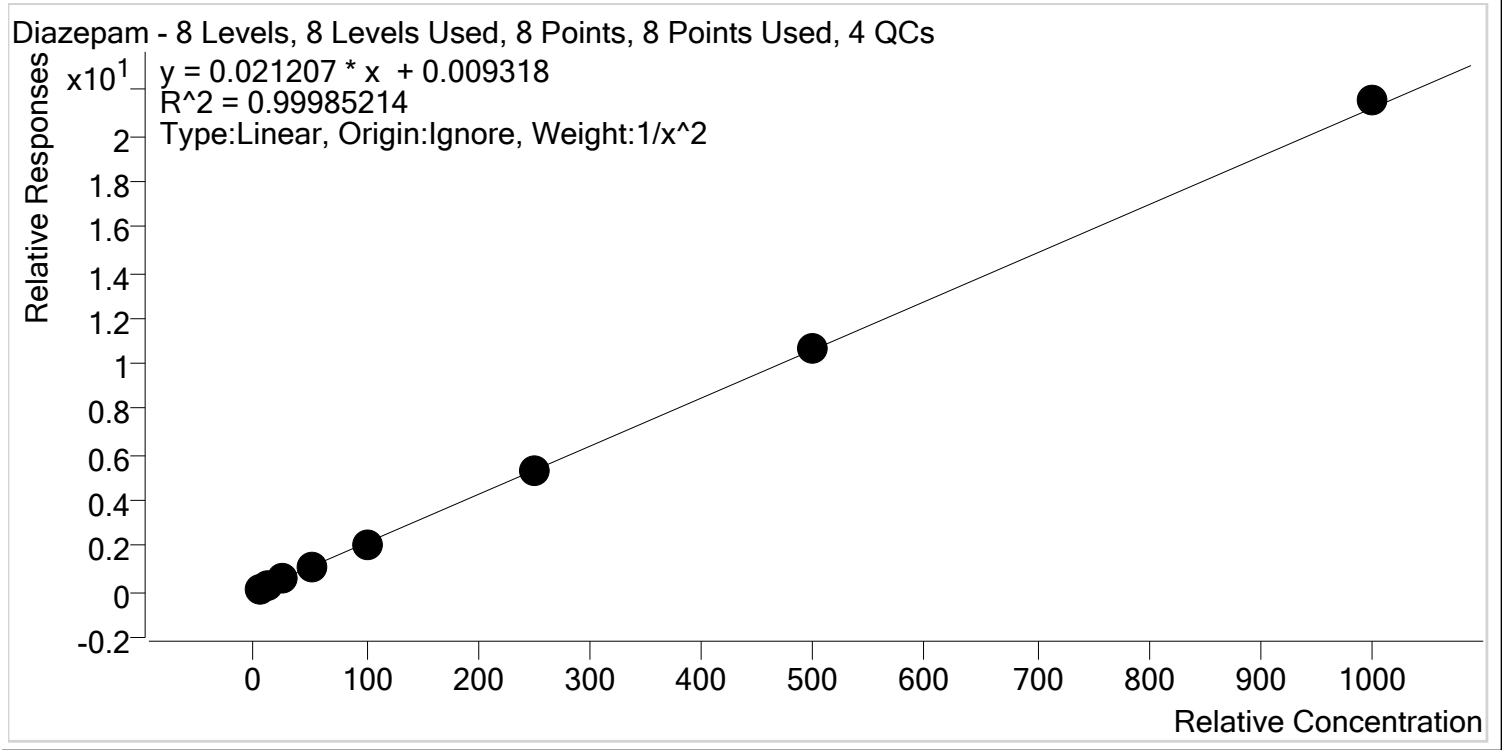


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	495.0	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1006.1	100.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5



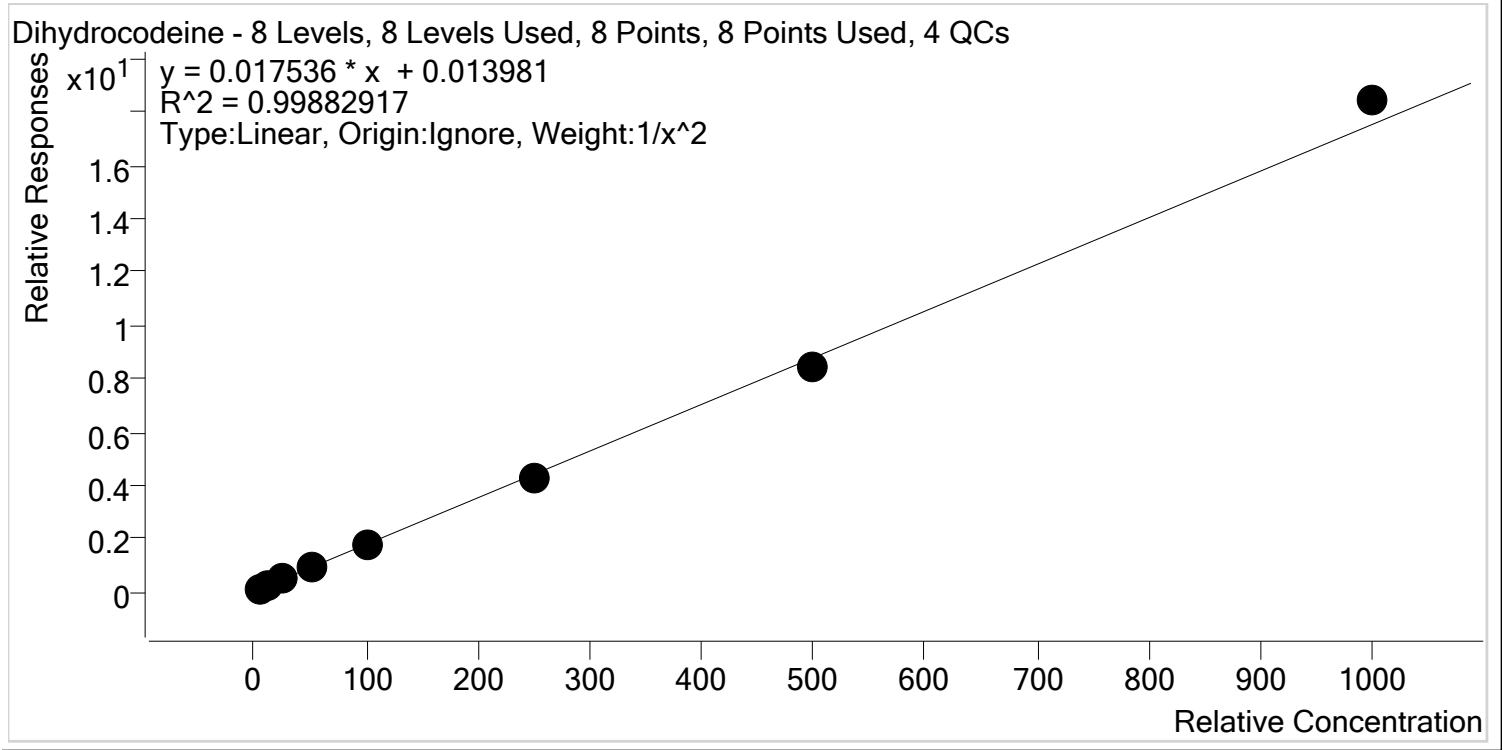
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	50.3	100.5
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	251.2	100.5
p1 Cal 7-500ng	7	✓	500.0	499.6	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1015.8	101.6





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



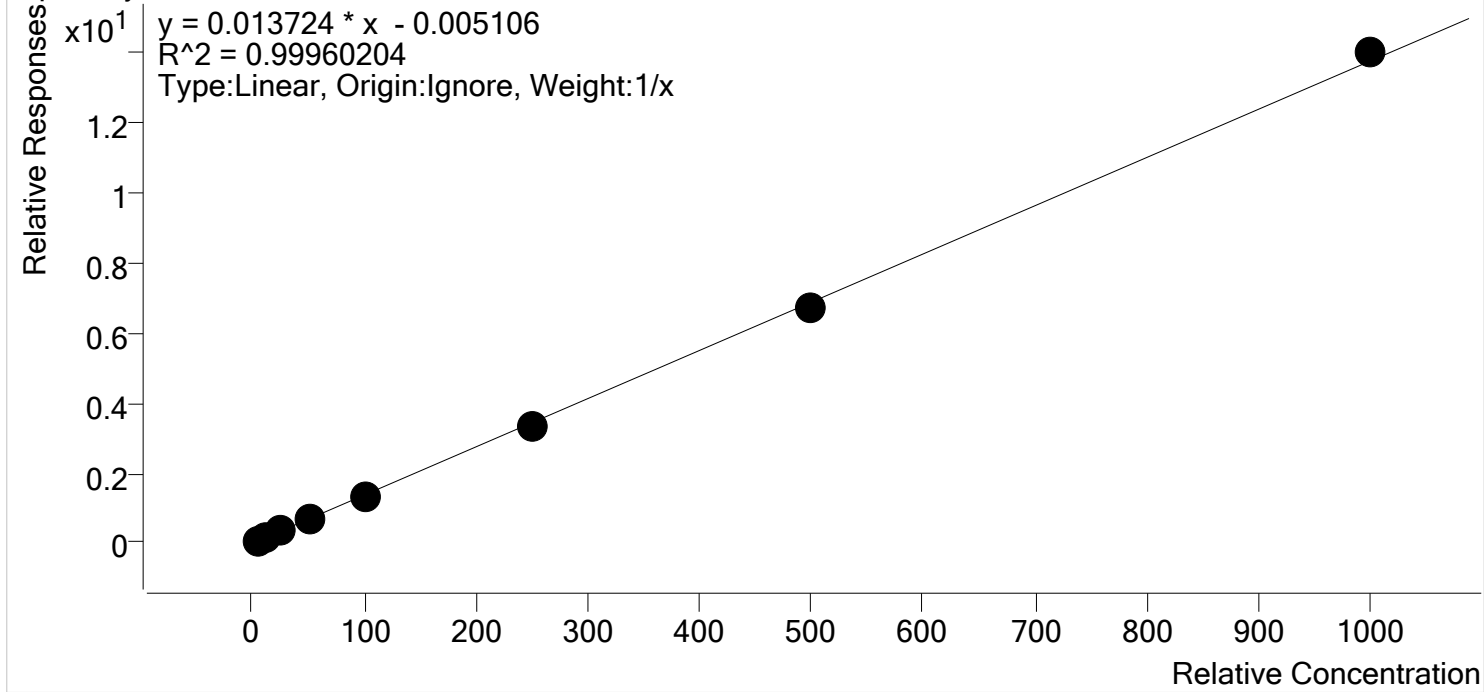
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
p1 Cal 7-500ng	7	✓	500.0	478.1	95.6
p1 Cal 8-1000ng	8	✓	1000.0	1051.2	105.1



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

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

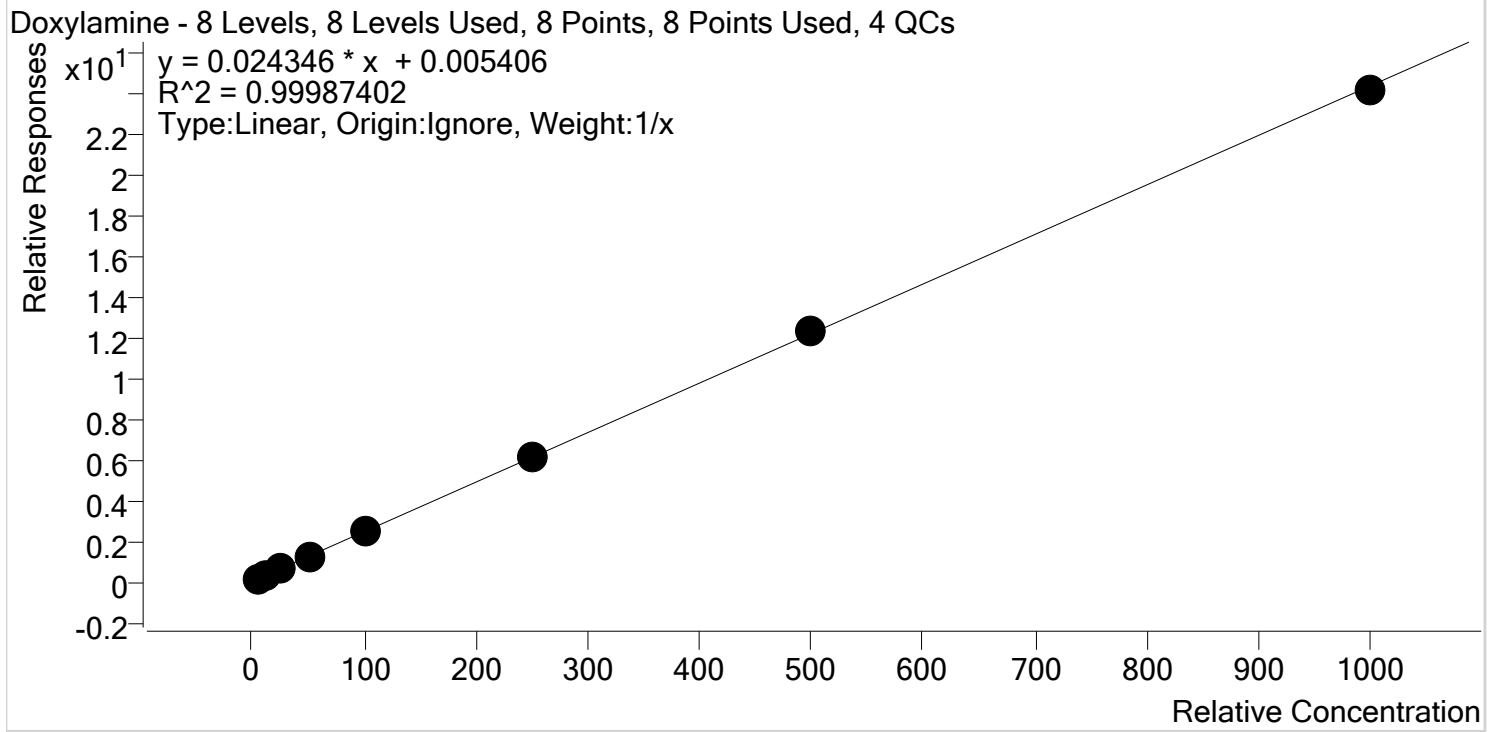


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	245.0	98.0
p1 Cal 7-500ng	7	✓	500.0	491.1	98.2
p1 Cal 8-1000ng	8	✓	1000.0	1017.6	101.8



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5



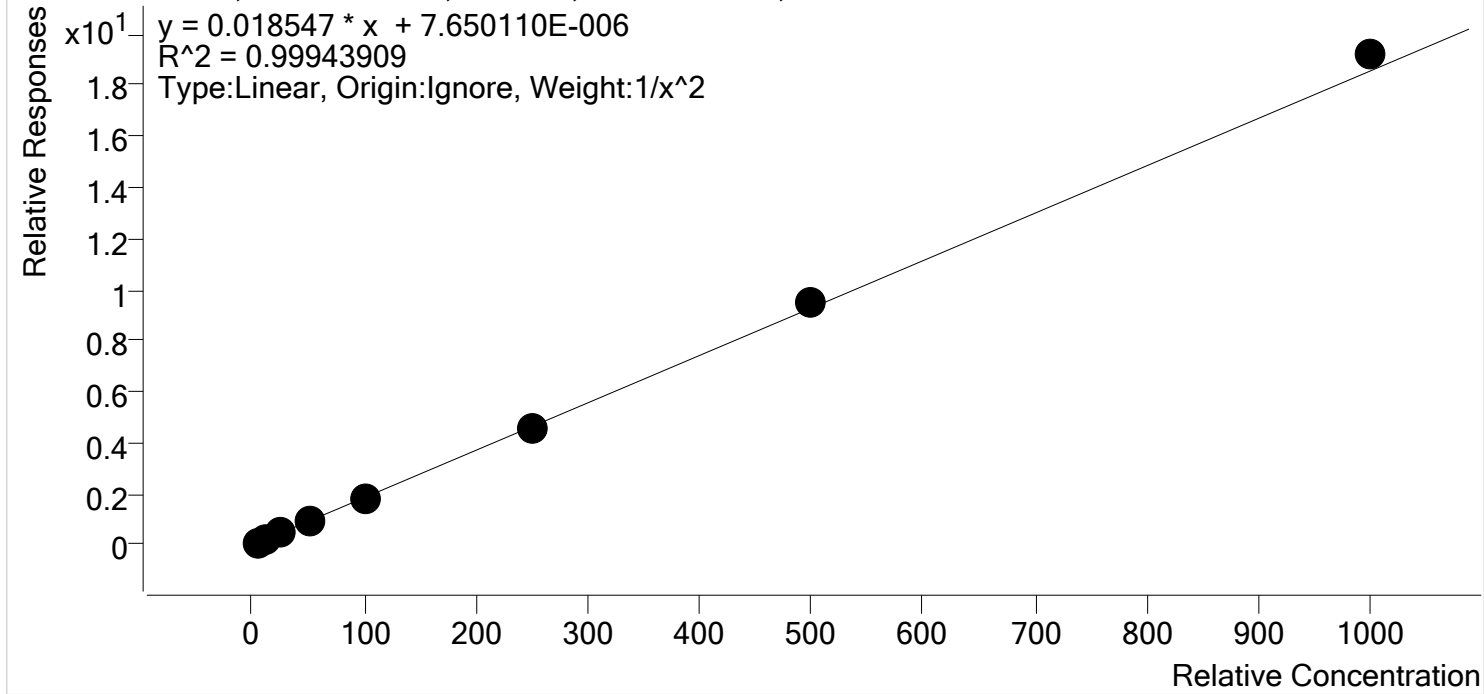
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	99.7	99.7
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	506.9	101.4
p1 Cal 8-1000ng	8	✓	1000.0	990.6	99.1



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

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

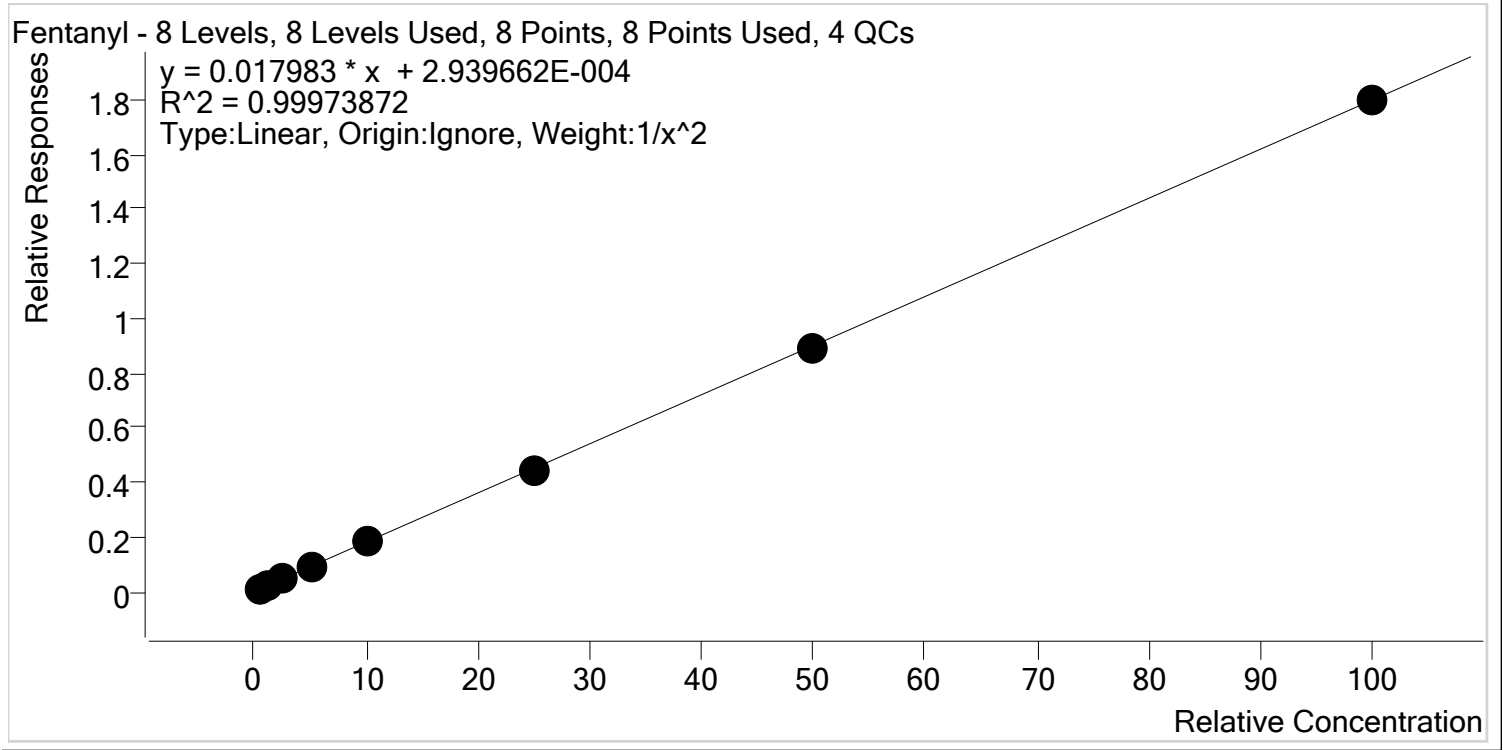


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.1
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.2
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	248.4	99.4
p1 Cal 7-500ng	7	✓	500.0	509.3	101.9
p1 Cal 8-1000ng	8	✓	1000.0	1034.6	103.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

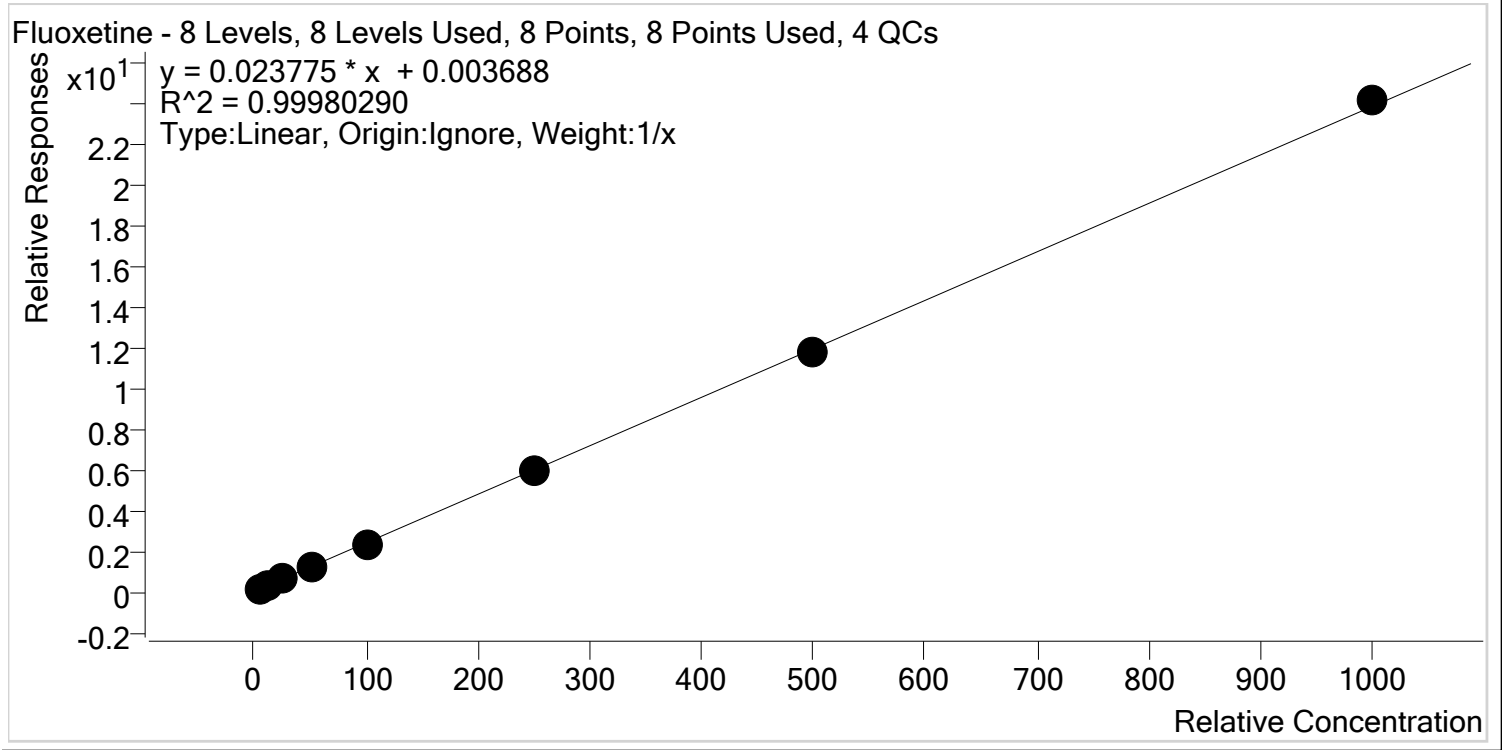


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	98.4
p1 Cal 2- 10ng	2	✓	1.0	1.0	102.8
p1 Cal 3 -25ng	3	✓	2.5	2.5	101.2
p1 Cal 4-50ng	4	✓	5.0	5.0	100.2
p1 Cal 5-100ng	5	✓	10.0	9.9	99.0
p1 Cal 6-250ng	6	✓	25.0	24.8	99.3
p1 Cal 7-500ng	7	✓	50.0	49.6	99.1
p1 Cal 8-1000ng	8	✓	100.0	99.9	99.9



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

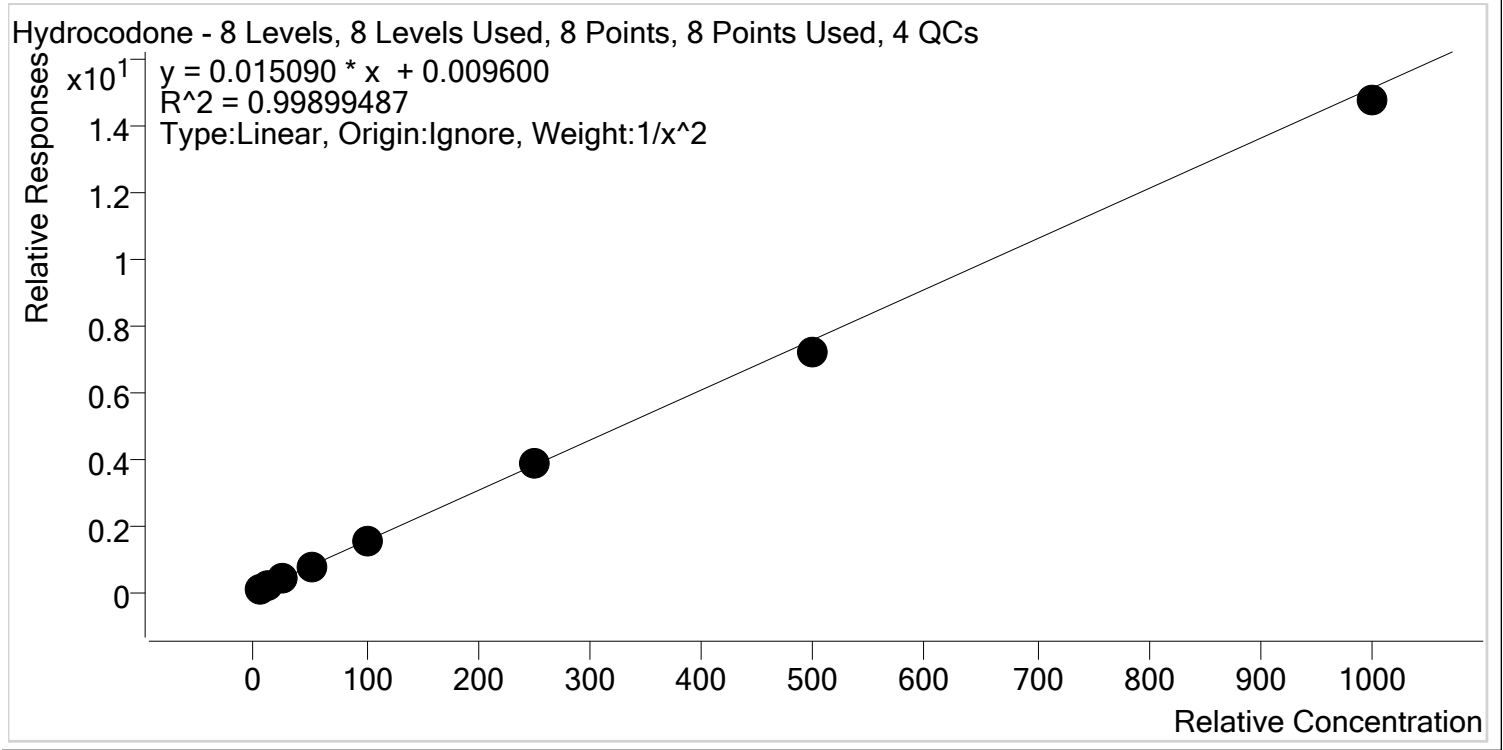


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	492.2	98.4
p1 Cal 8-1000ng	8	✓	1000.0	1012.2	101.2



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6

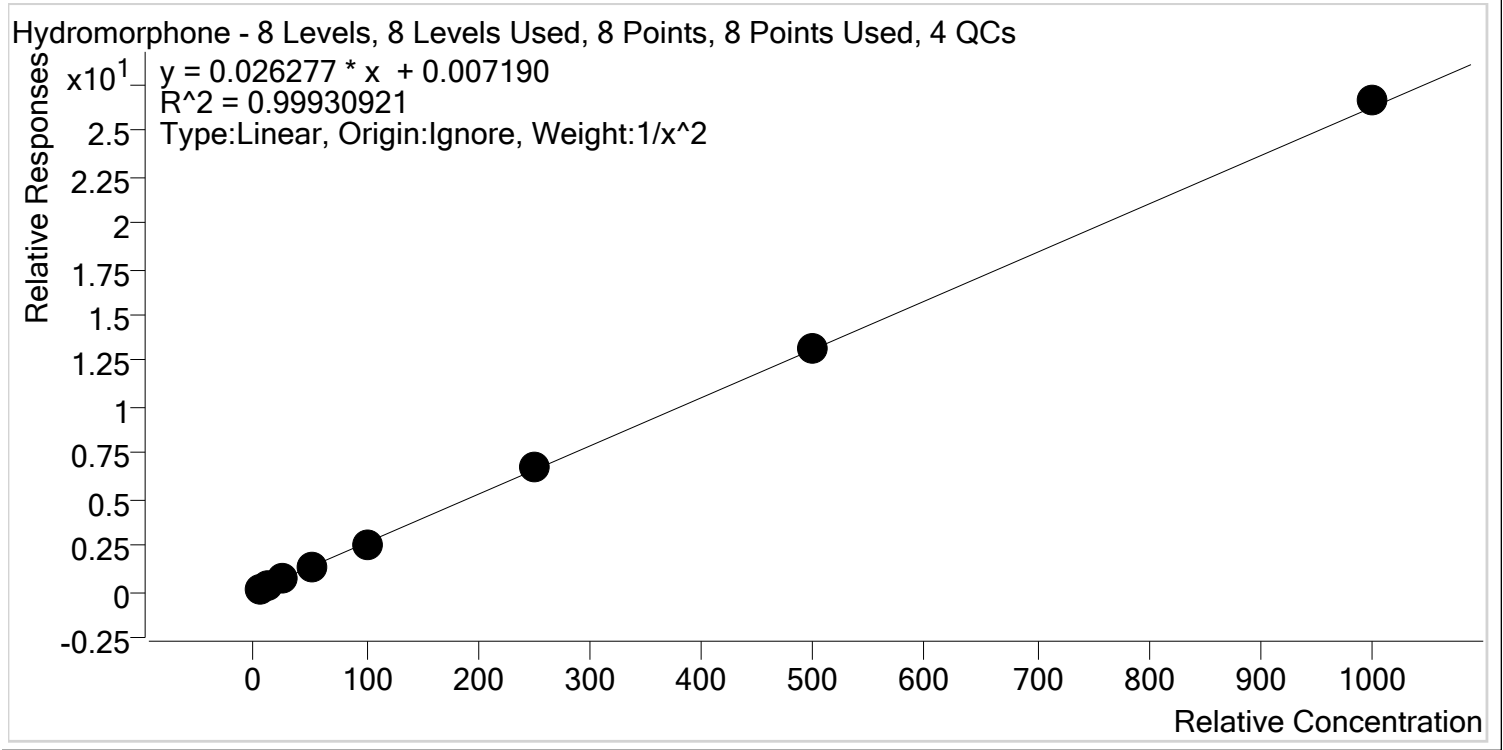


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.8
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	254.7	101.9
p1 Cal 7-500ng	7	✓	500.0	476.1	95.2
p1 Cal 8-1000ng	8	✓	1000.0	975.0	97.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	94.7	94.7
p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
p1 Cal 7-500ng	7	✓	500.0	501.9	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1014.1	101.4



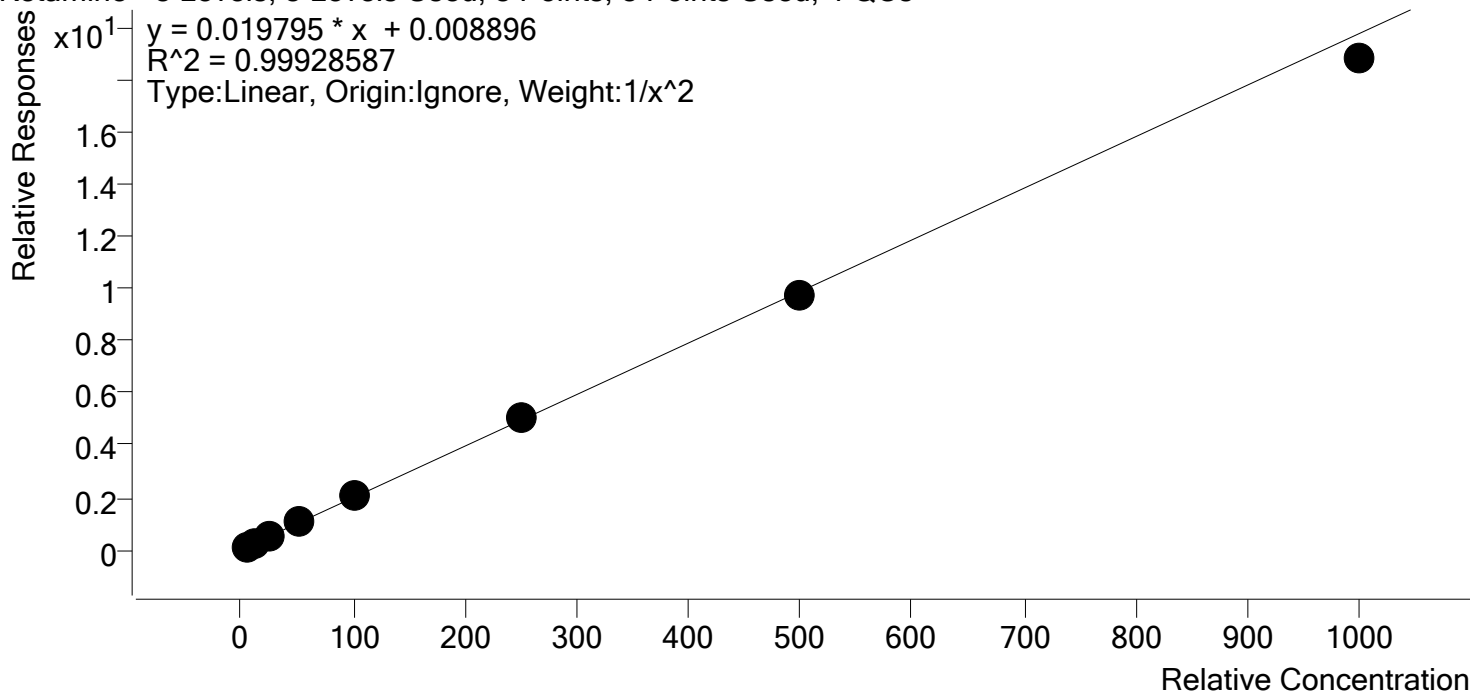
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

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



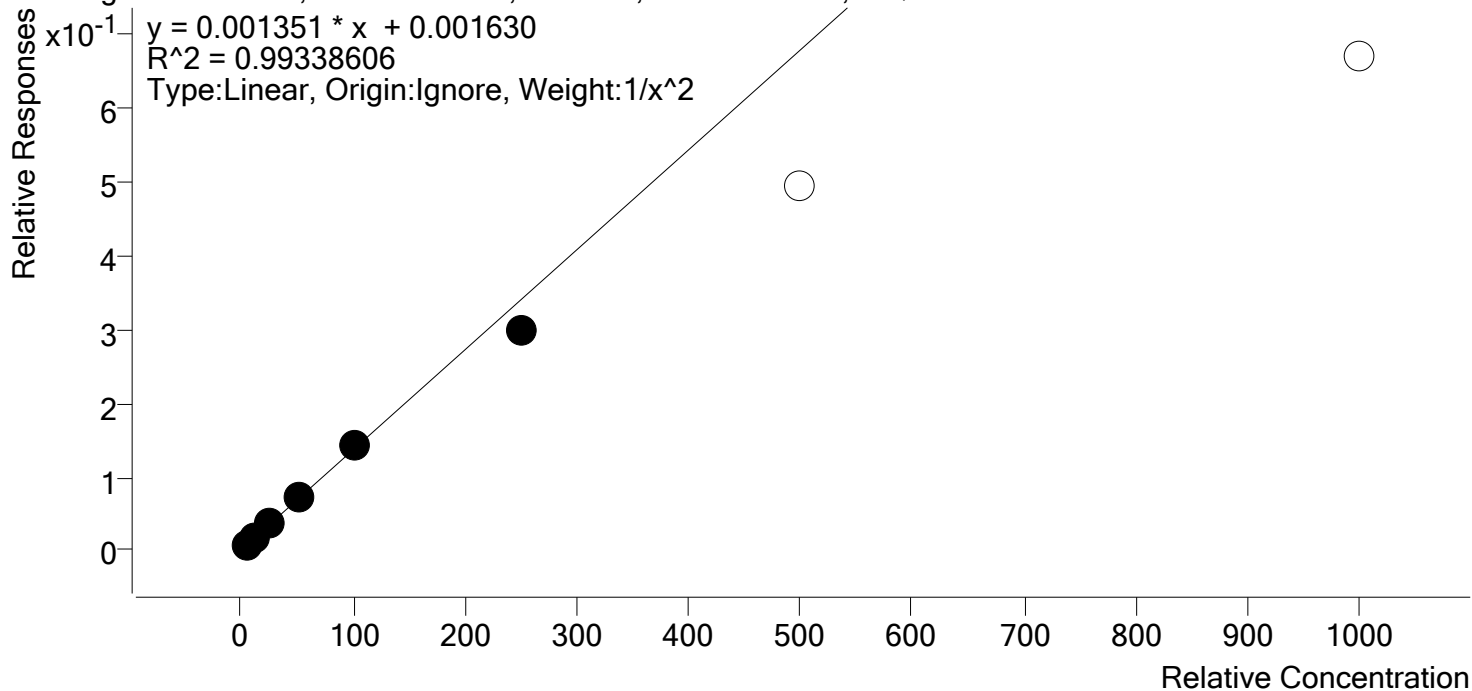
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	495.8	99.2
p1 Cal 8-1000ng	8	✓	1000.0	951.5	95.2



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4

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

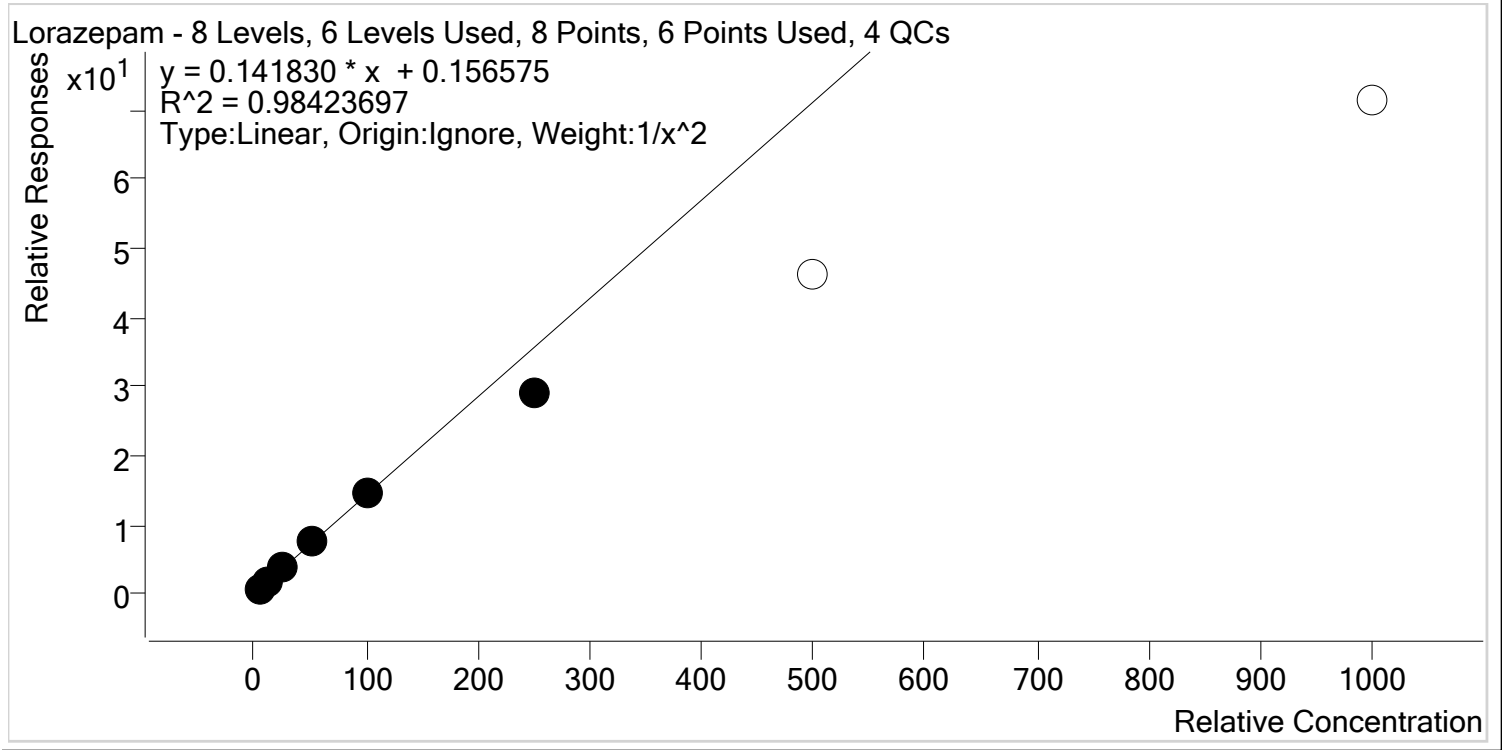


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng	4	✓	50.0	53.6	107.2
p1 Cal 5-100ng	5	✓	100.0	104.6	104.6
p1 Cal 6-250ng	6	✓	250.0	220.3	88.1
p1 Cal 7-500ng	7	x	500.0	363.3	72.7
p1 Cal 8-1000ng	8	x	1000.0	493.4	49.3



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4

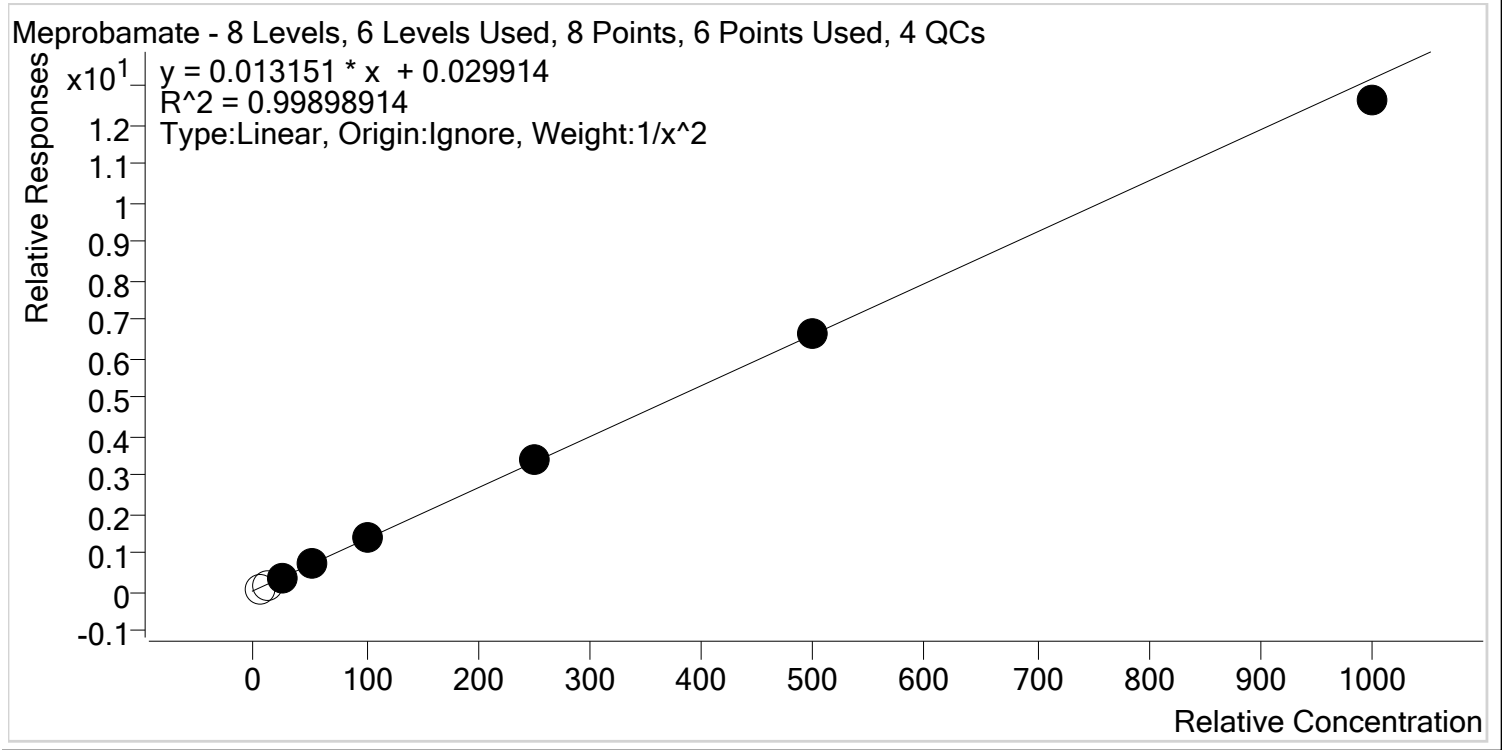


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	27.8	111.0
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	203.3	81.3
p1 Cal 7-500ng	7	x	500.0	326.1	65.2
p1 Cal 8-1000ng	8	x	1000.0	501.3	50.1



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7

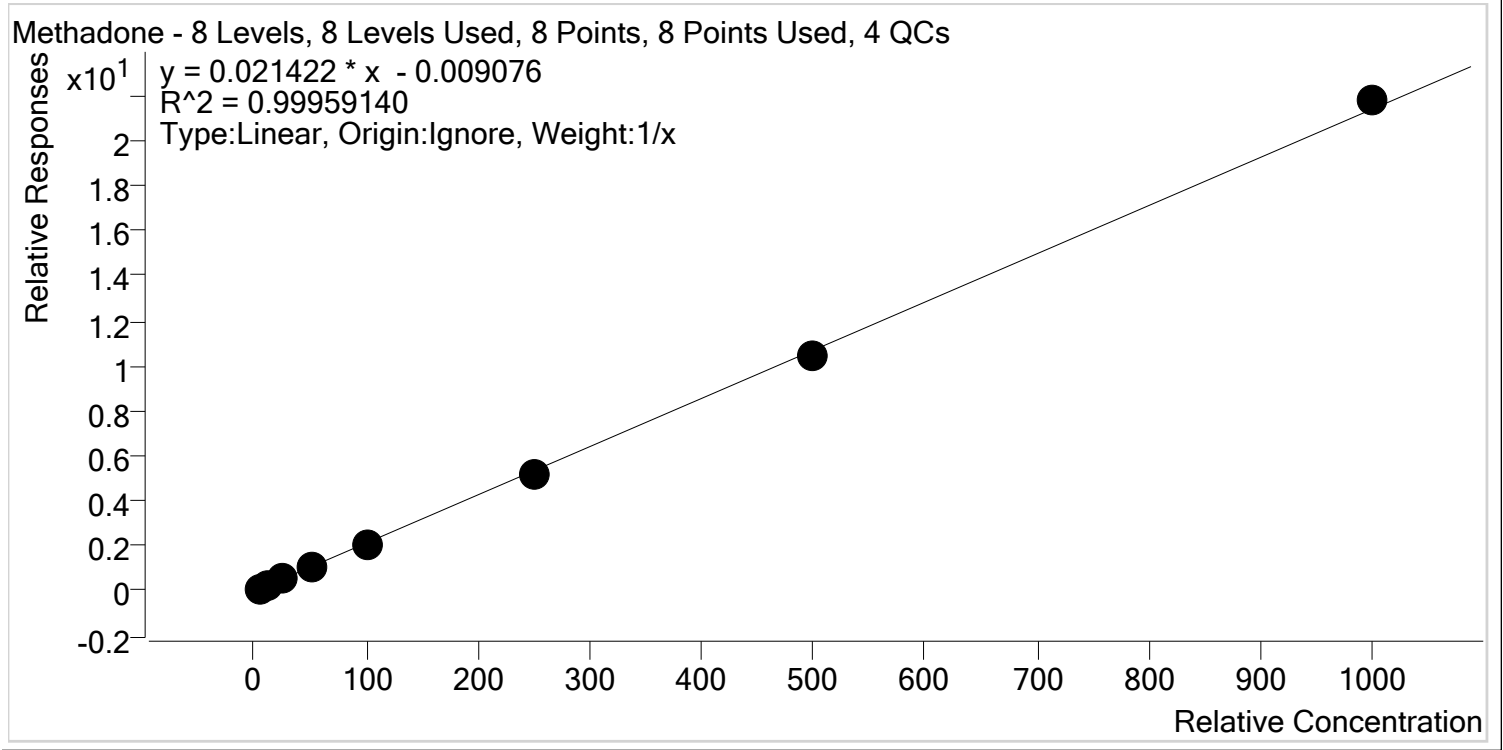


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	2.9	57.4
p1 Cal 2- 10ng	2	x	10.0	8.2	82.4
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	257.7	103.1
p1 Cal 7-500ng	7	✓	500.0	502.6	100.5
p1 Cal 8-1000ng	8	✓	1000.0	957.2	95.7



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

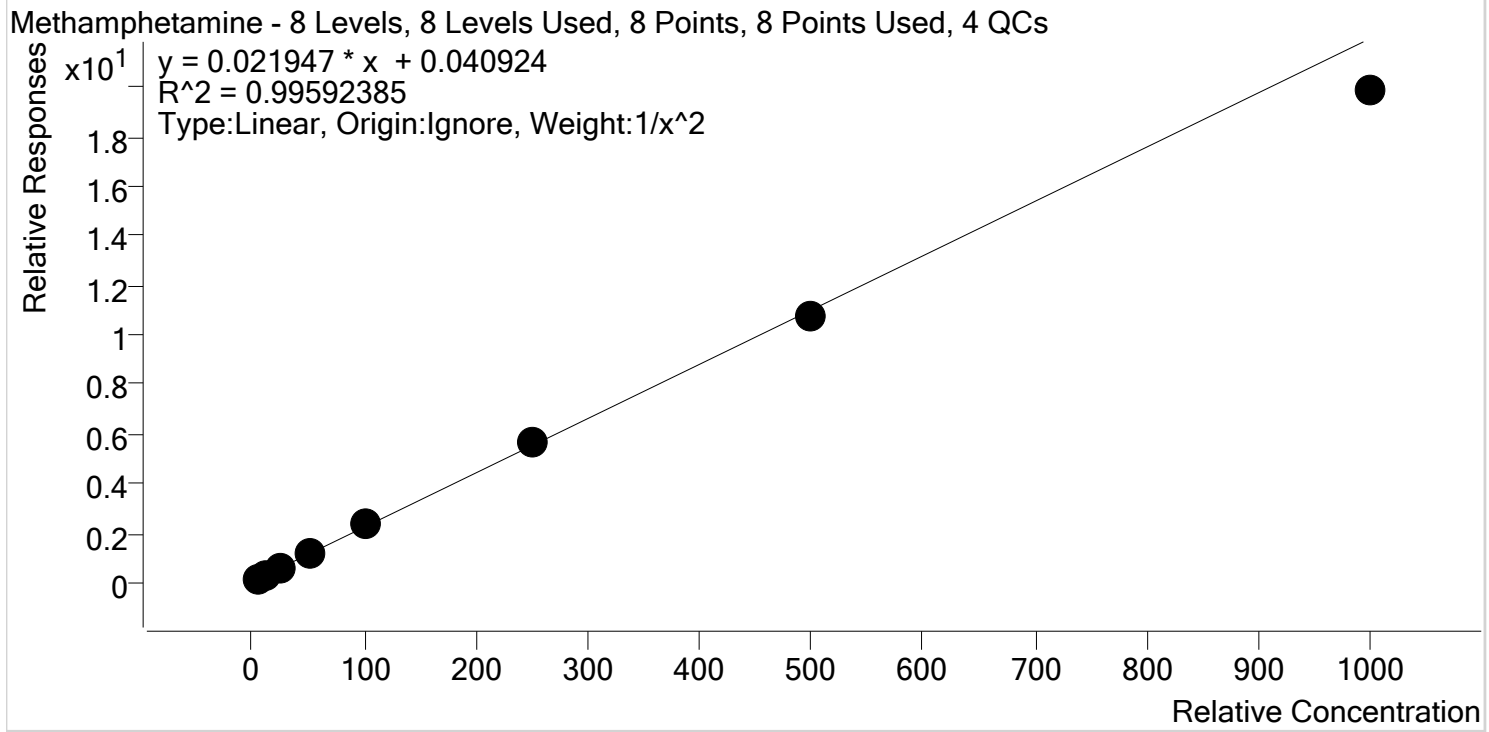


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	244.4	97.8
p1 Cal 7-500ng	7	✓	500.0	489.7	97.9
p1 Cal 8-1000ng	8	✓	1000.0	1017.9	101.8



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11

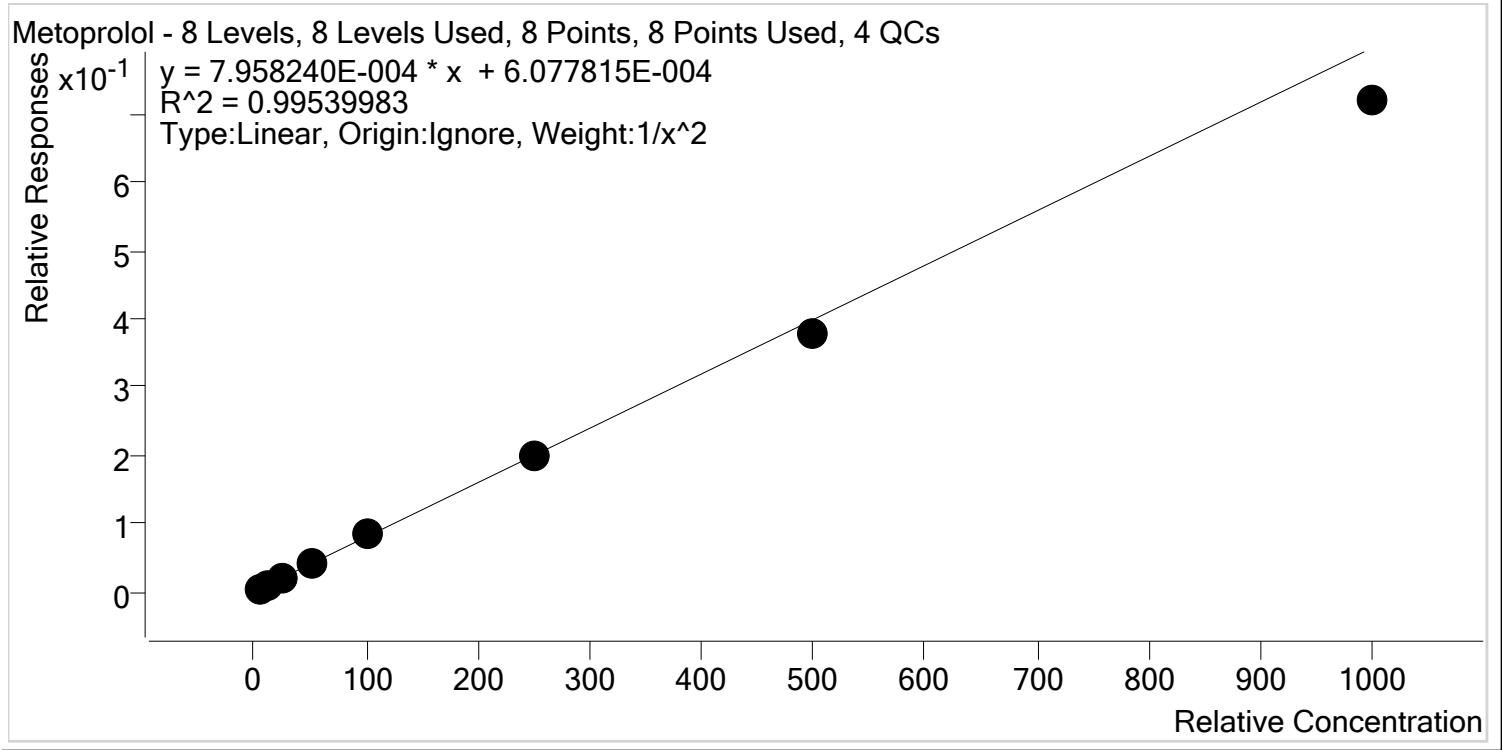


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	9.4	93.6
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.5
p1 Cal 4-50ng	4	✓	50.0	53.3	106.7
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	259.2	103.7
p1 Cal 7-500ng	7	✓	500.0	490.7	98.1
p1 Cal 8-1000ng	8	✓	1000.0	904.2	90.4



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

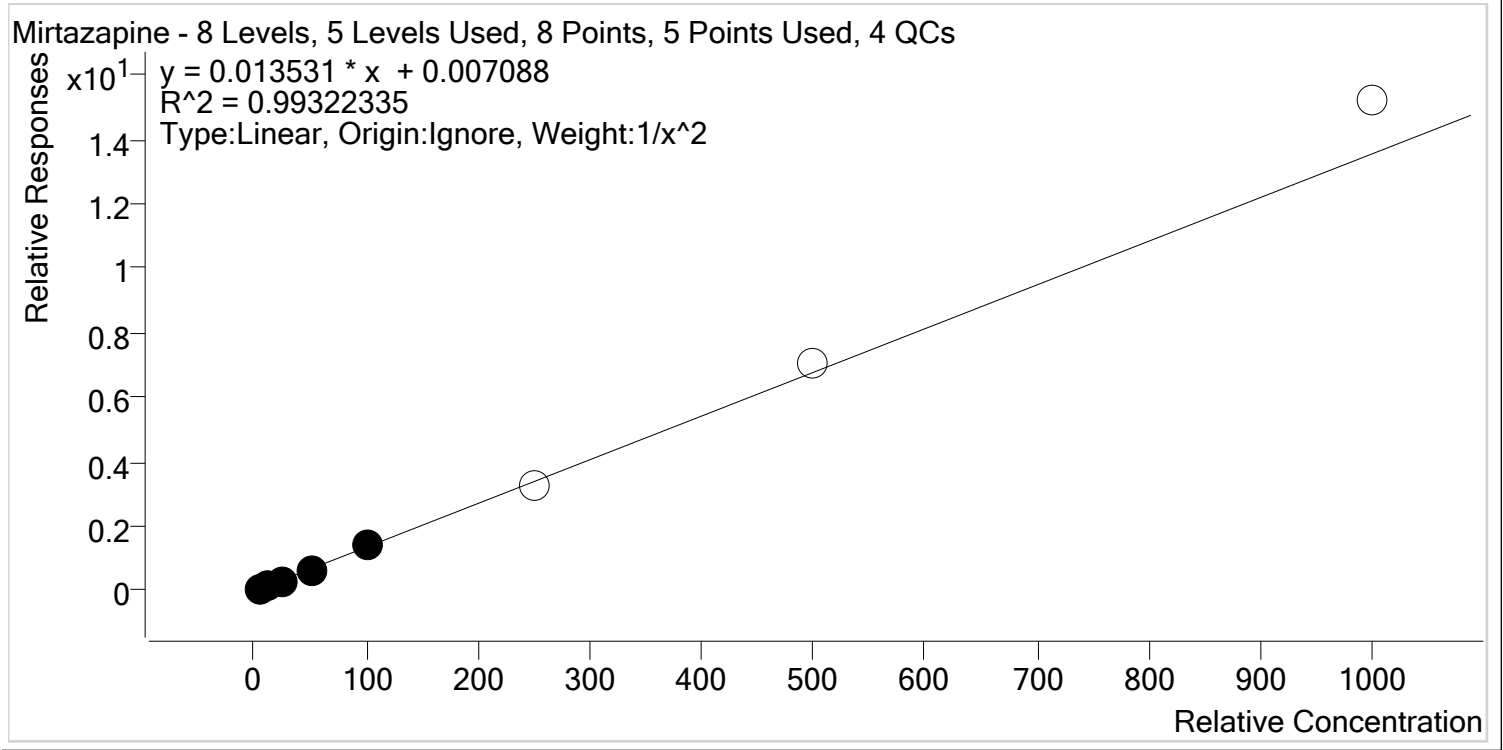


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.4
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	53.2	106.3
p1 Cal 5-100ng	5	✓	100.0	104.7	104.7
p1 Cal 6-250ng	6	✓	250.0	247.4	98.9
p1 Cal 7-500ng	7	✓	500.0	477.1	95.4
p1 Cal 8-1000ng	8	✓	1000.0	903.0	90.3



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8



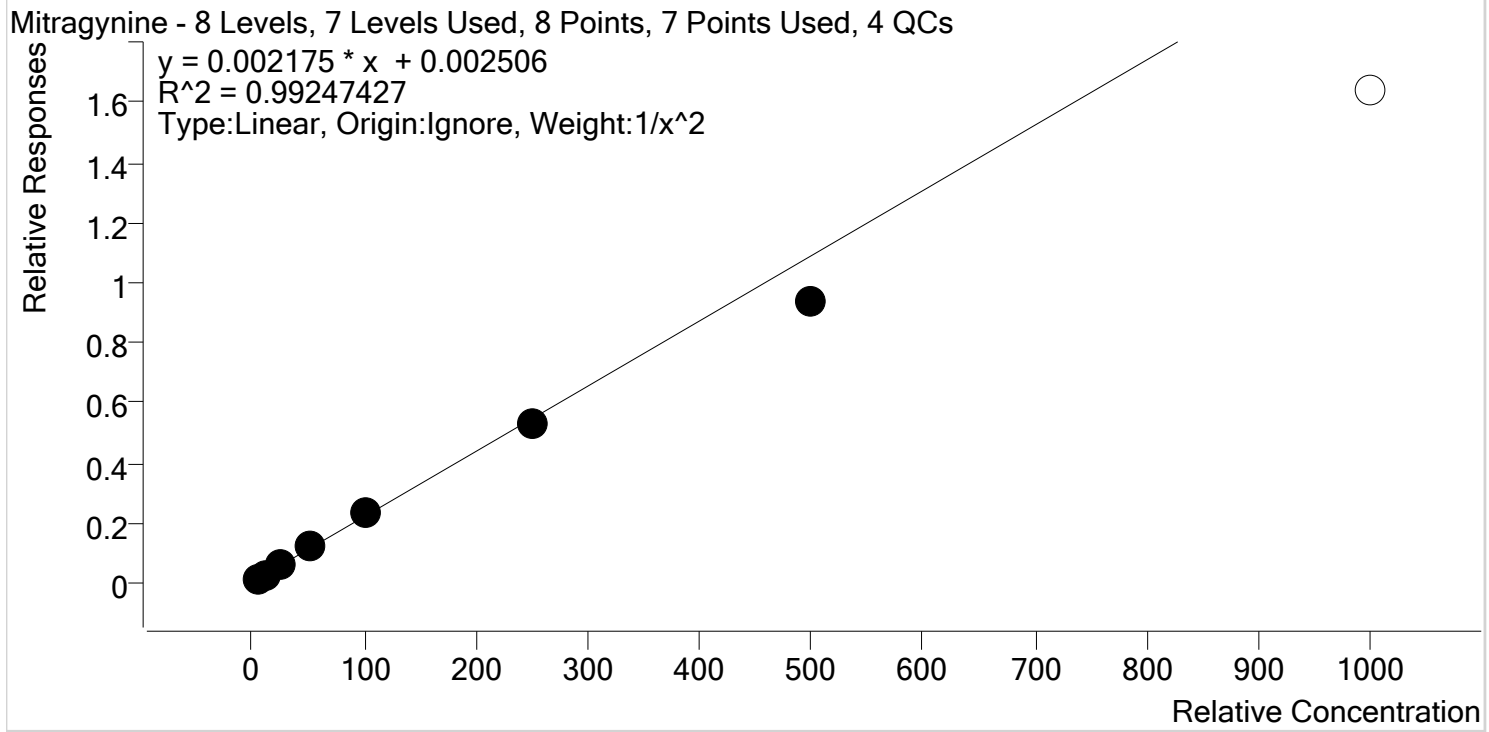
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.8
p1 Cal 3 -25ng	3	✓	25.0	23.0	91.9
p1 Cal 4-50ng	4	✓	50.0	48.3	96.5
p1 Cal 5-100ng	5	✓	100.0	108.7	108.7
p1 Cal 6-250ng	6	✗	250.0	238.2	95.3
p1 Cal 7-500ng	7	✗	500.0	519.4	103.9
p1 Cal 8-1000ng	8	✗	1000.0	1121.8	112.2





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9

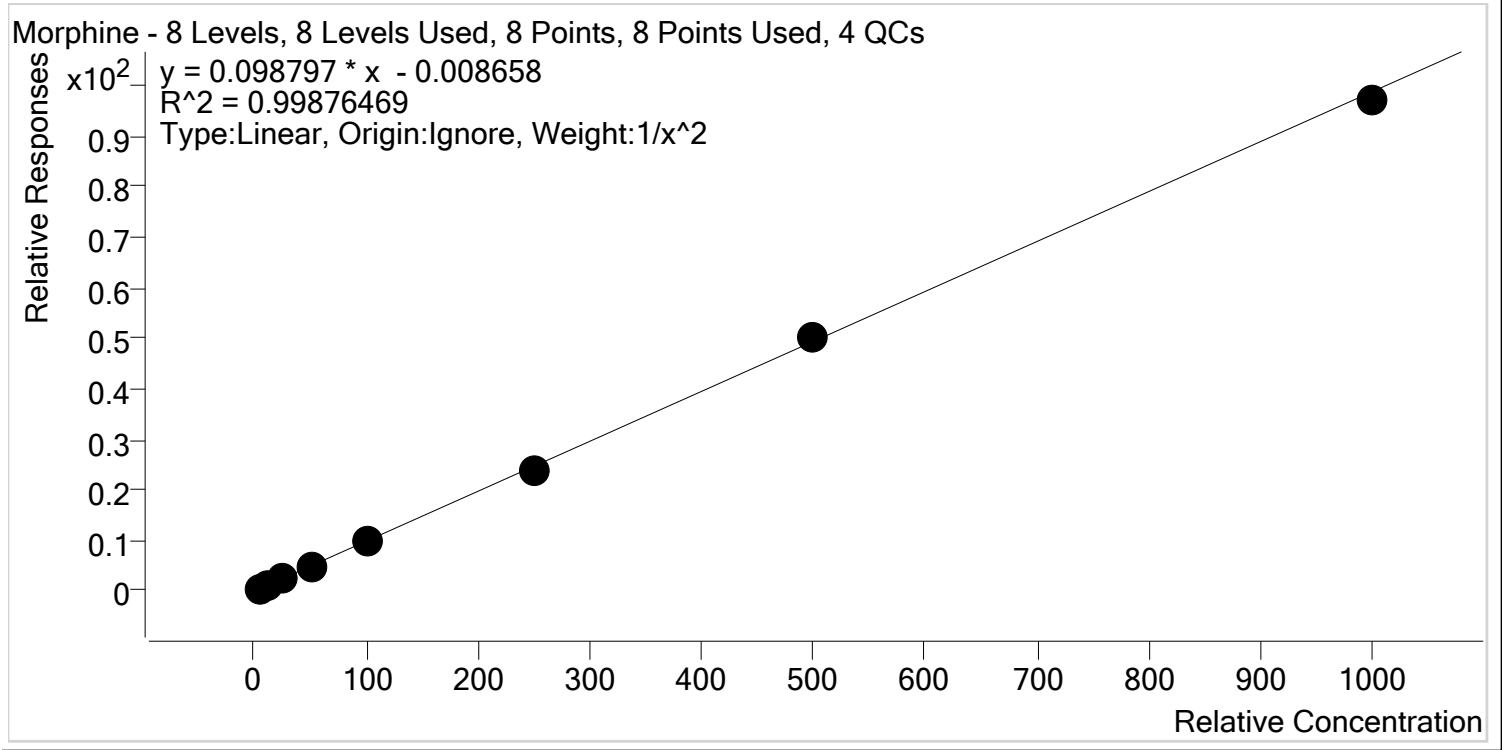


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.9
p1 Cal 4-50ng	4	✓	50.0	53.3	106.6
p1 Cal 5-100ng	5	✓	100.0	105.4	105.4
p1 Cal 6-250ng	6	✓	250.0	244.8	97.9
p1 Cal 7-500ng	7	✓	500.0	428.1	85.6
p1 Cal 8-1000ng	8	✗	1000.0	753.1	75.3



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

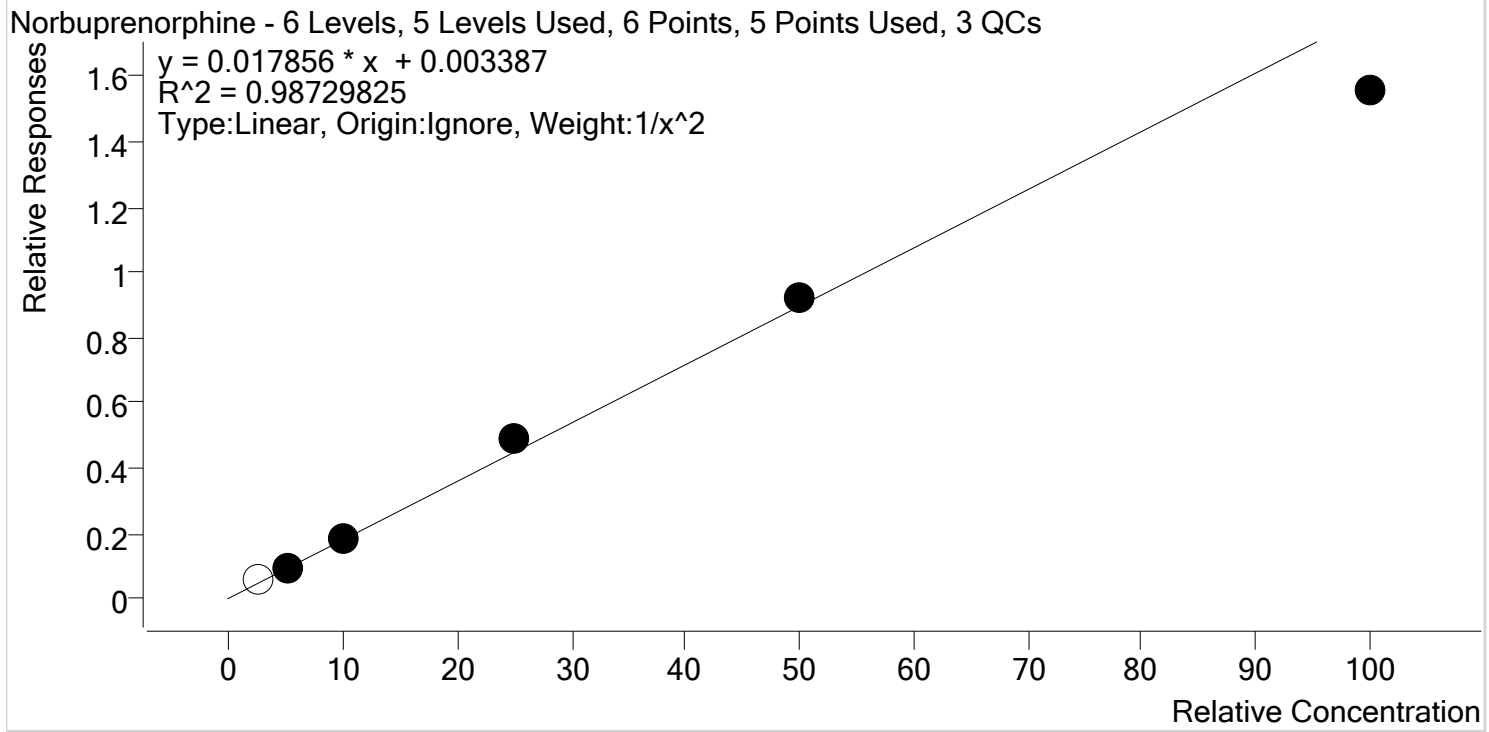


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	239.6	95.8
p1 Cal 7-500ng	7	✓	500.0	508.4	101.7
p1 Cal 8-1000ng	8	✓	1000.0	982.3	98.2



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



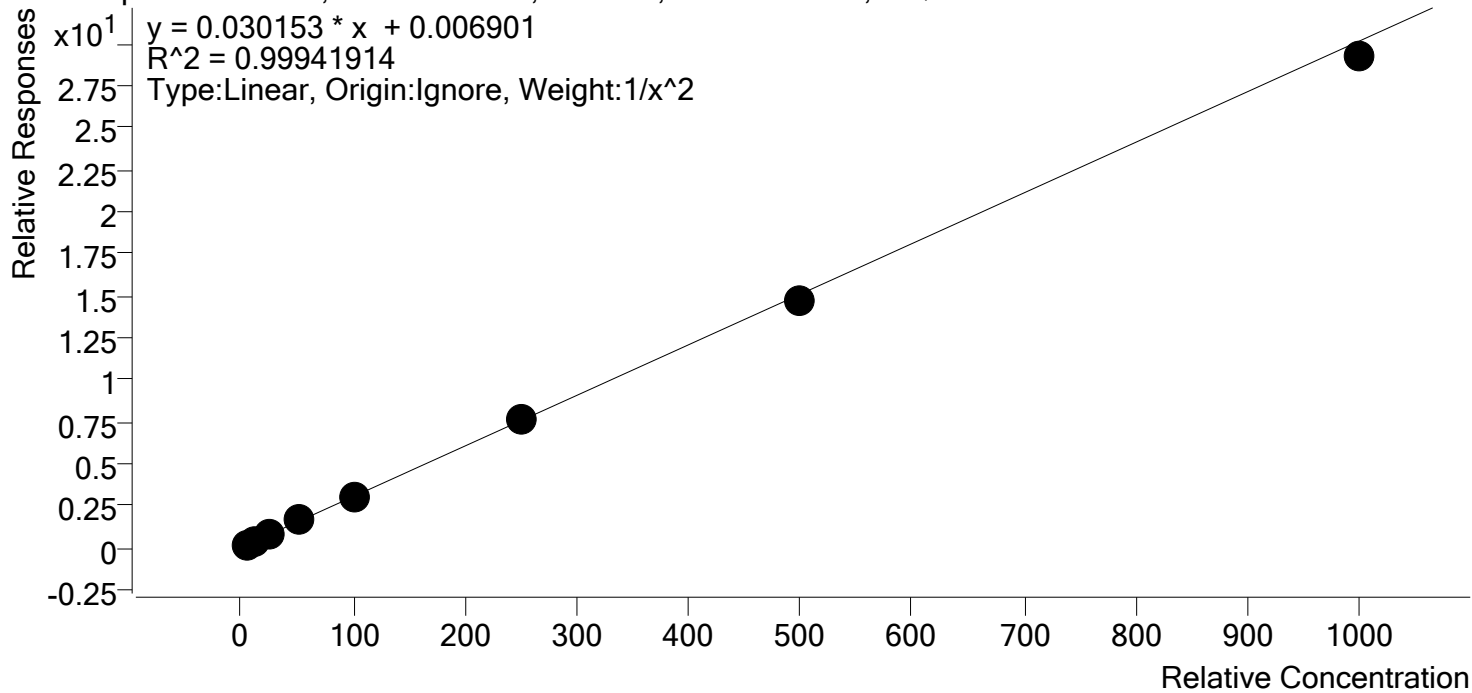
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 3 -25ng	3	x	2.5	3.3	131.3
p1 Cal 4-50ng	4	✓	5.0	4.8	96.6
p1 Cal 5-100ng	5	✓	10.0	10.4	103.5
p1 Cal 6-250ng	6	✓	25.0	27.5	110.2
p1 Cal 7-500ng	7	✓	50.0	51.4	102.7
p1 Cal 8-1000ng	8	✓	100.0	87.0	87.0



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

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

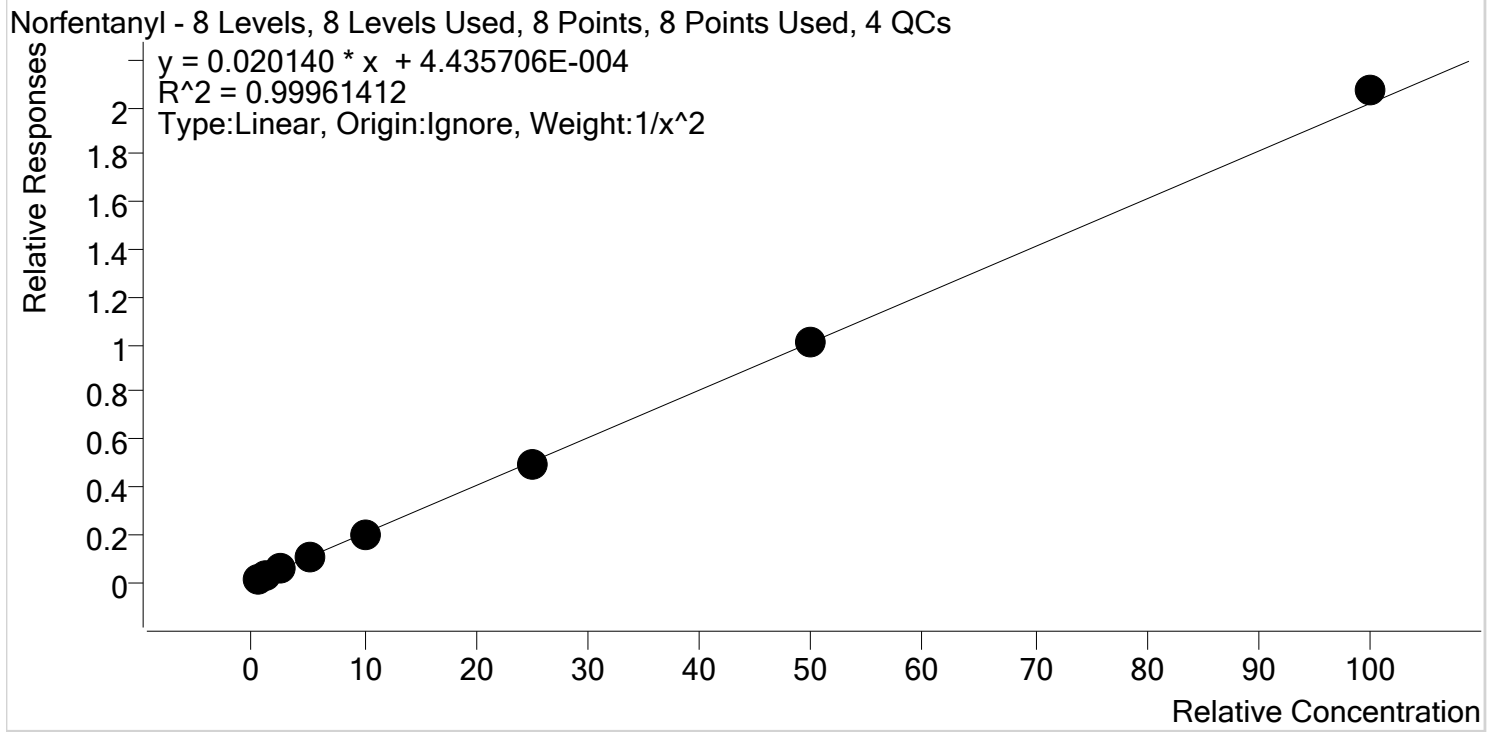


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	52.0	103.9
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	490.1	98.0
p1 Cal 8-1000ng	8	✓	1000.0	969.5	96.9



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5

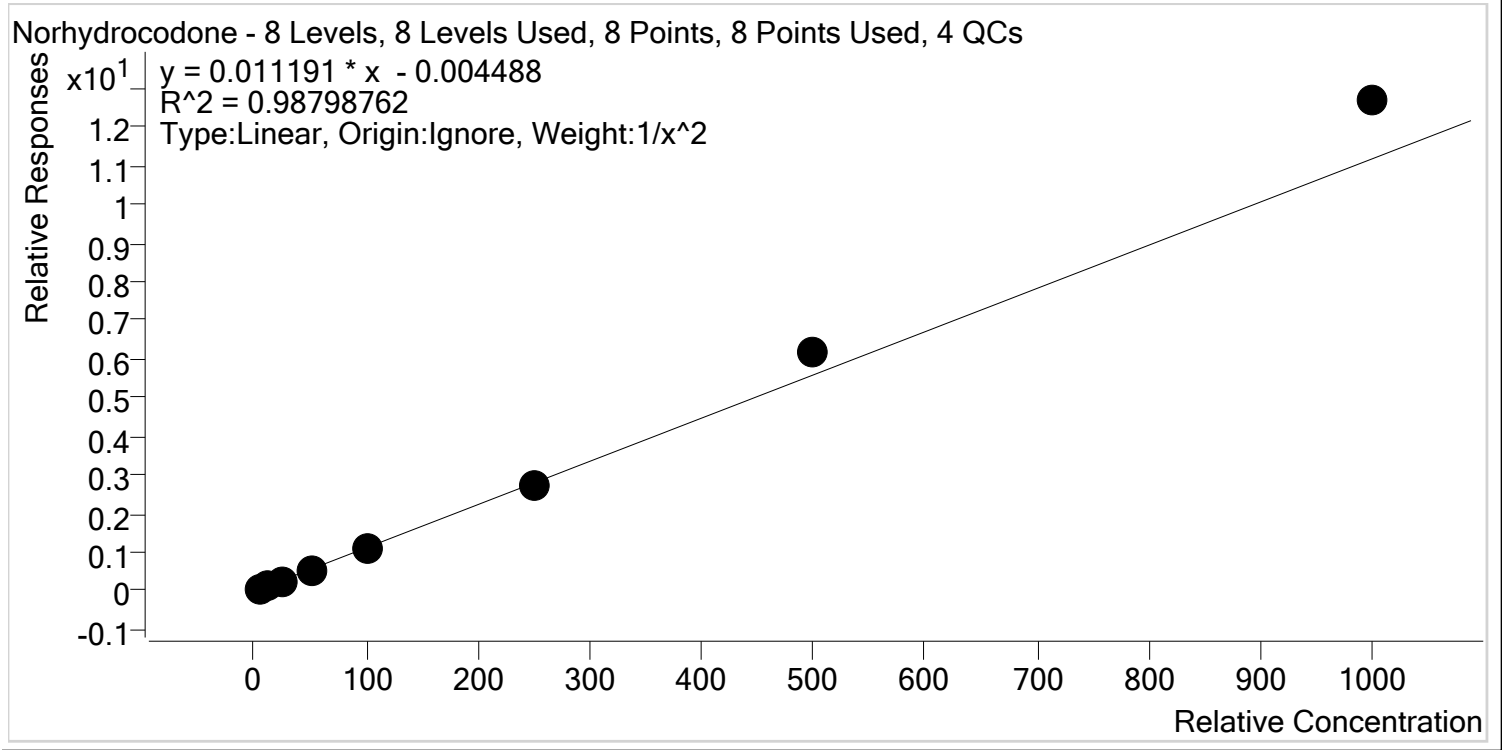


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.2
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.3
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.7
p1 Cal 4-50ng	4	✓	5.0	5.1	101.6
p1 Cal 5-100ng	5	✓	10.0	10.0	99.6
p1 Cal 6-250ng	6	✓	25.0	24.8	99.0
p1 Cal 7-500ng	7	✓	50.0	49.9	99.8
p1 Cal 8-1000ng	8	✓	100.0	102.7	102.7



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3



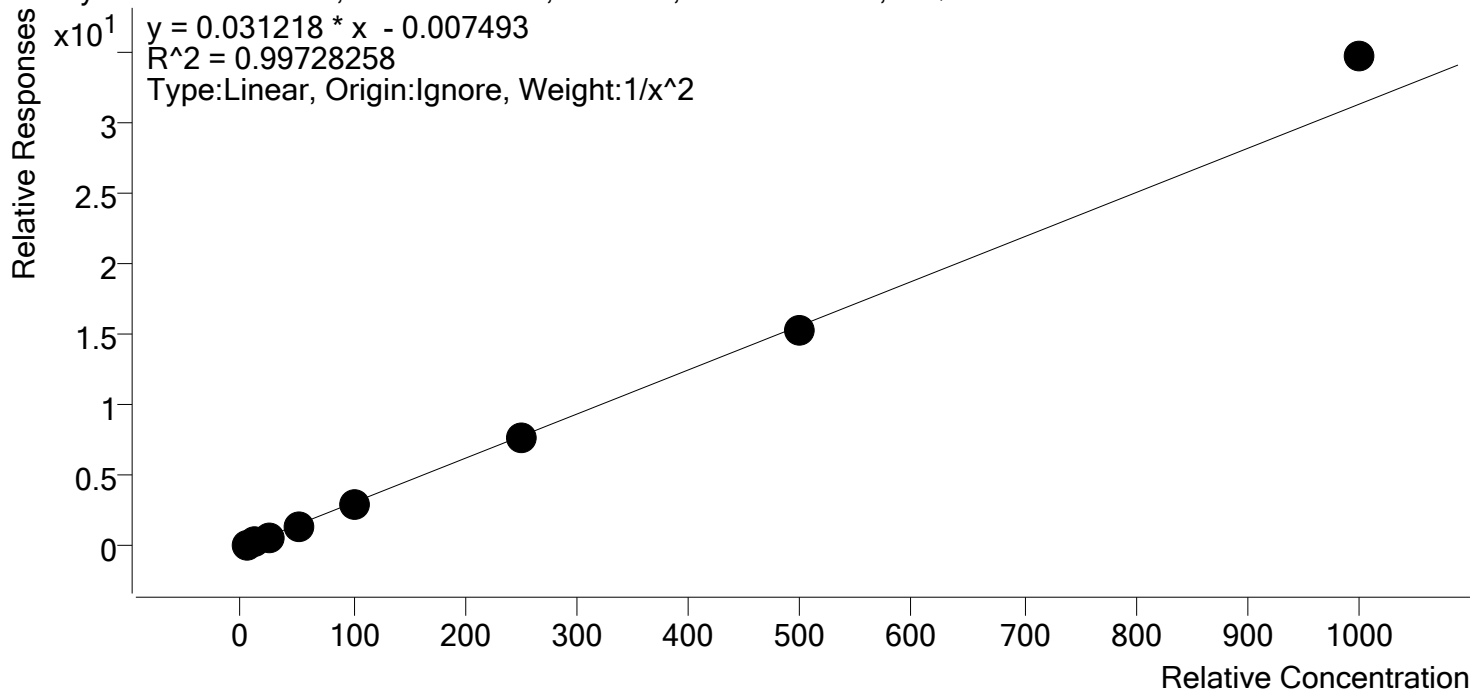
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.9
p1 Cal 2- 10ng	2	✓	10.0	9.3	92.5
p1 Cal 3 -25ng	3	✓	25.0	22.1	88.6
p1 Cal 4-50ng	4	✓	50.0	44.9	89.8
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	245.0	98.0
p1 Cal 7-500ng	7	✓	500.0	554.2	110.8
p1 Cal 8-1000ng	8	✓	1000.0	1134.7	113.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

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



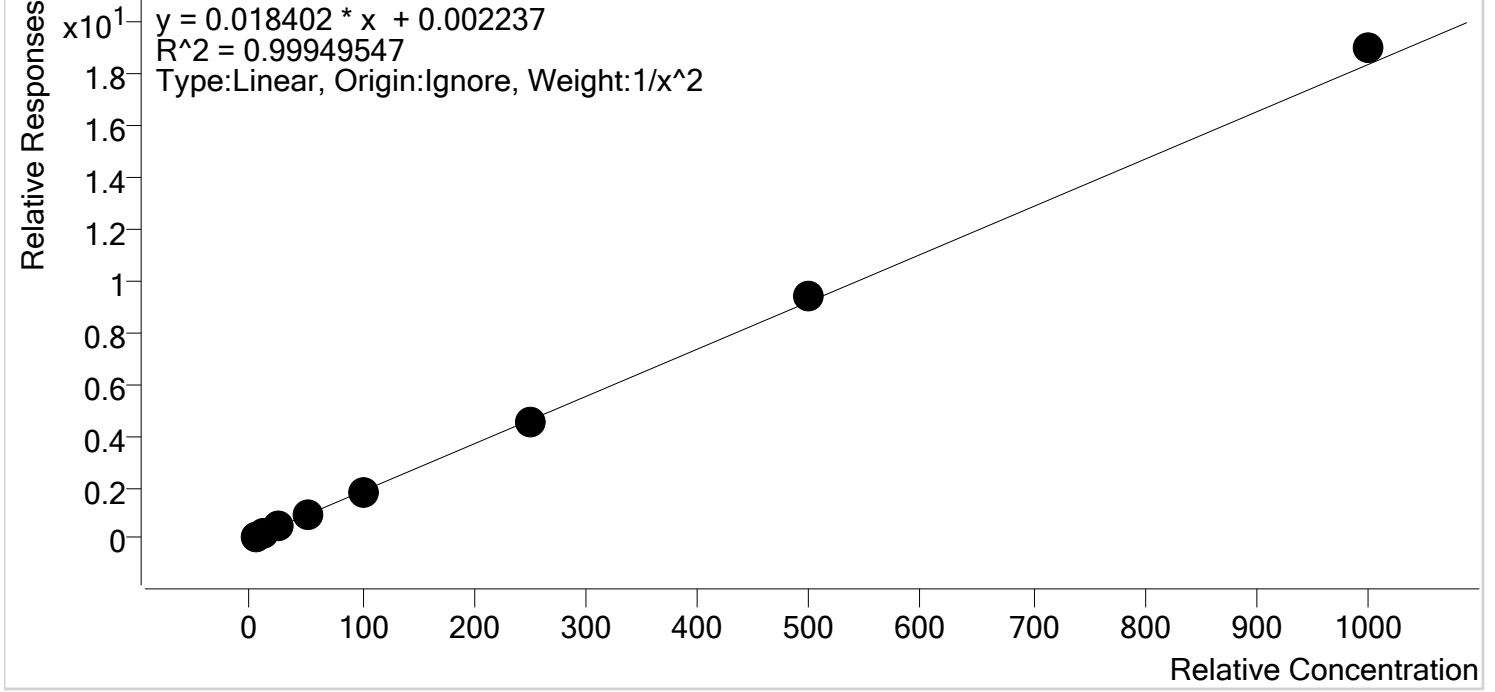
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	245.7	98.3
p1 Cal 7-500ng	7	✓	500.0	487.9	97.6
p1 Cal 8-1000ng	8	✓	1000.0	1107.5	110.7



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

O-desmethyl-tramadol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



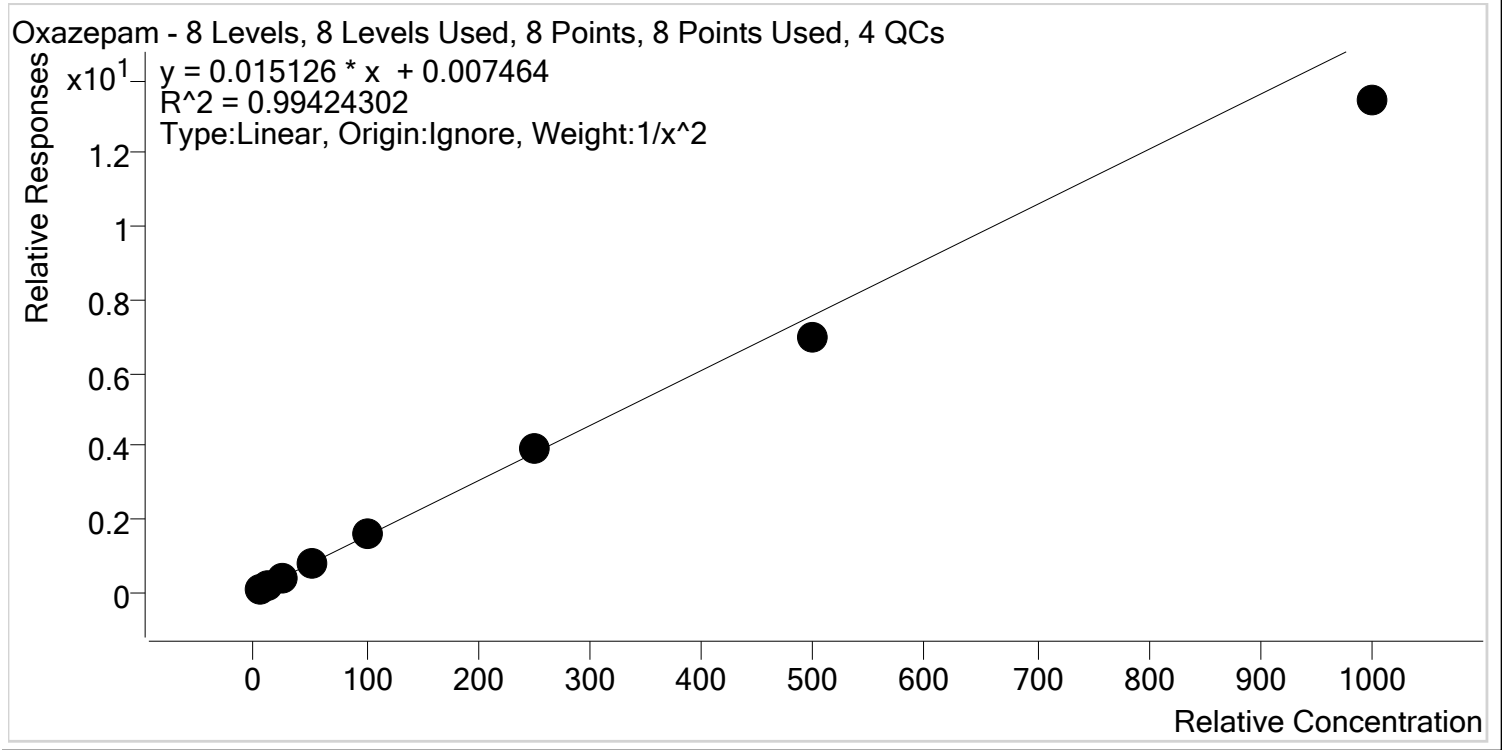
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	249.4	99.8
p1 Cal 7-500ng	7	✓	500.0	508.1	101.6
p1 Cal 8-1000ng	8	✓	1000.0	1034.3	103.4





# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam Internal Standard Oxazepam-D5

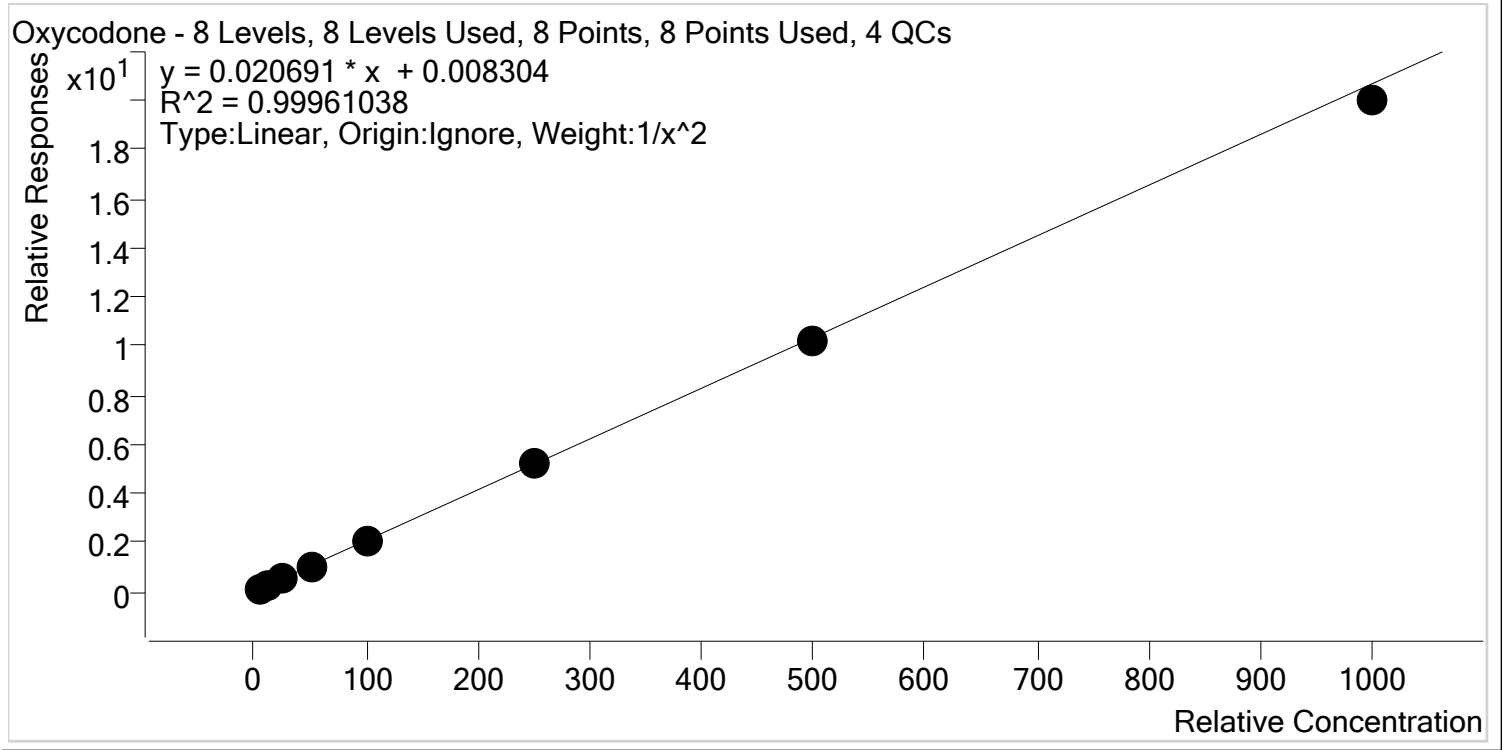


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.4
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	105.4	105.4
p1 Cal 6-250ng	6	✓	250.0	256.3	102.5
p1 Cal 7-500ng	7	✓	500.0	461.6	92.3
p1 Cal 8-1000ng	8	✓	1000.0	888.5	88.8



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

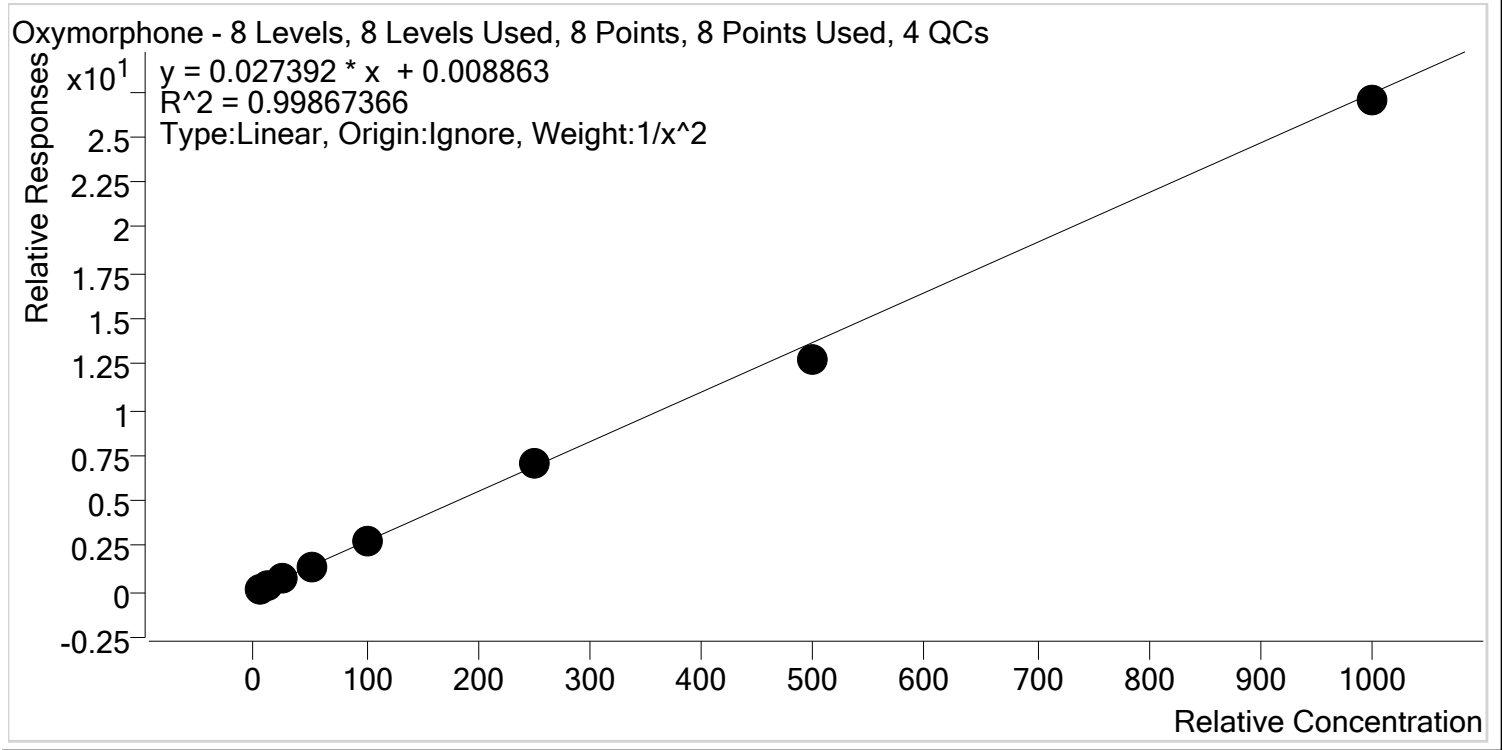


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.8
p1 Cal 4-50ng	4	✓	50.0	51.0	101.9
p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng	6	✓	250.0	254.7	101.9
p1 Cal 7-500ng	7	✓	500.0	493.9	98.8
p1 Cal 8-1000ng	8	✓	1000.0	966.8	96.7



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3



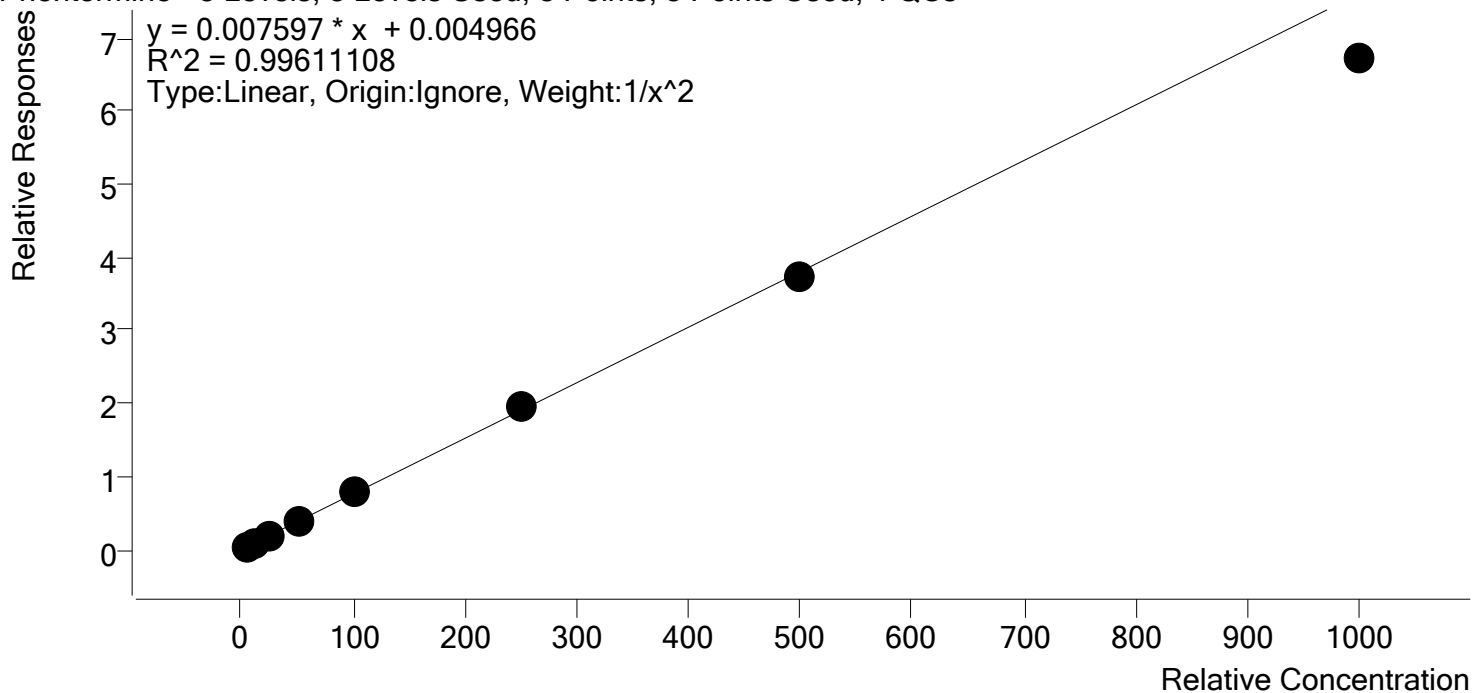
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.6
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	254.5	101.8
p1 Cal 7-500ng	7	✓	500.0	468.1	93.6
p1 Cal 8-1000ng	8	✓	1000.0	985.1	98.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5

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

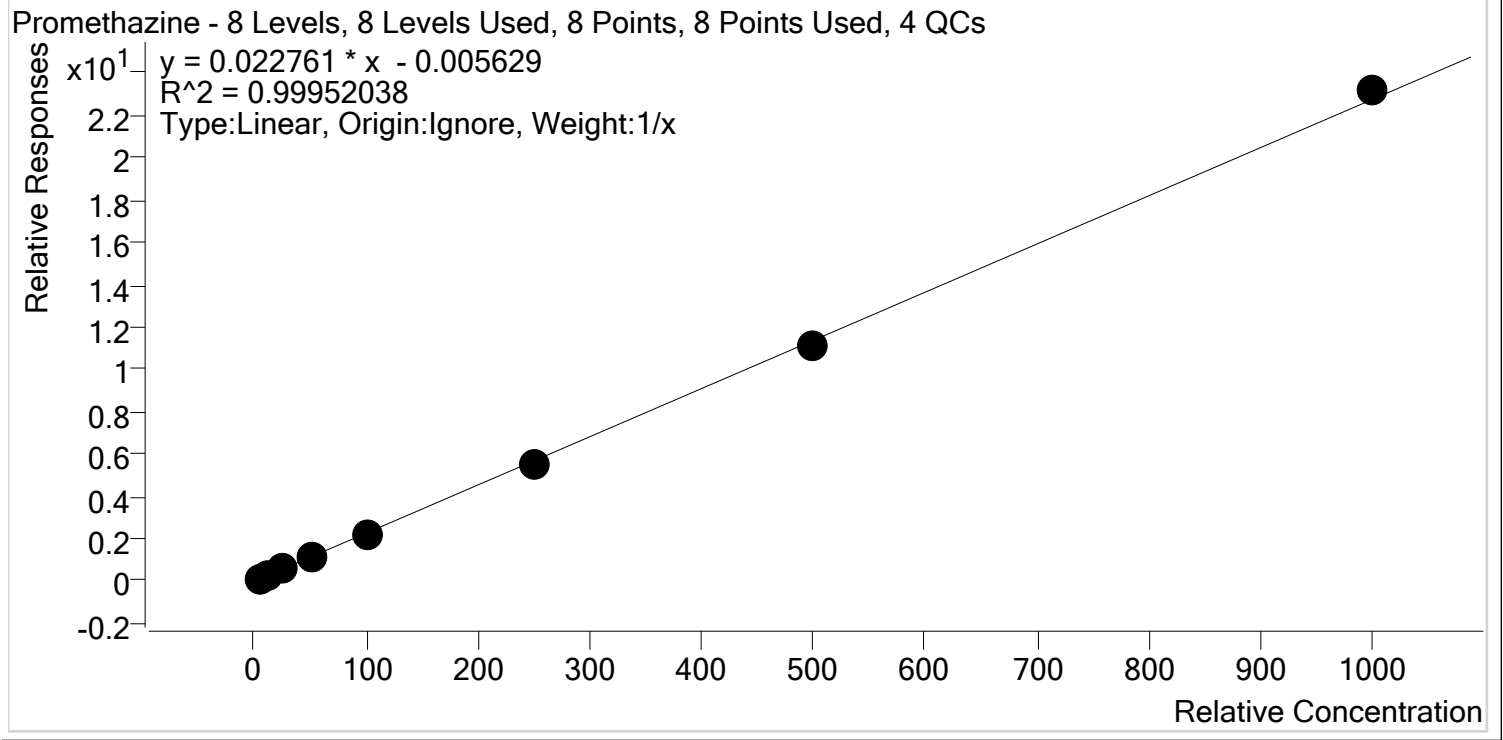


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.8
p1 Cal 4-50ng	4	✓	50.0	51.8	103.5
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	257.8	103.1
p1 Cal 7-500ng	7	✓	500.0	487.9	97.6
p1 Cal 8-1000ng	8	✓	1000.0	883.5	88.4



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

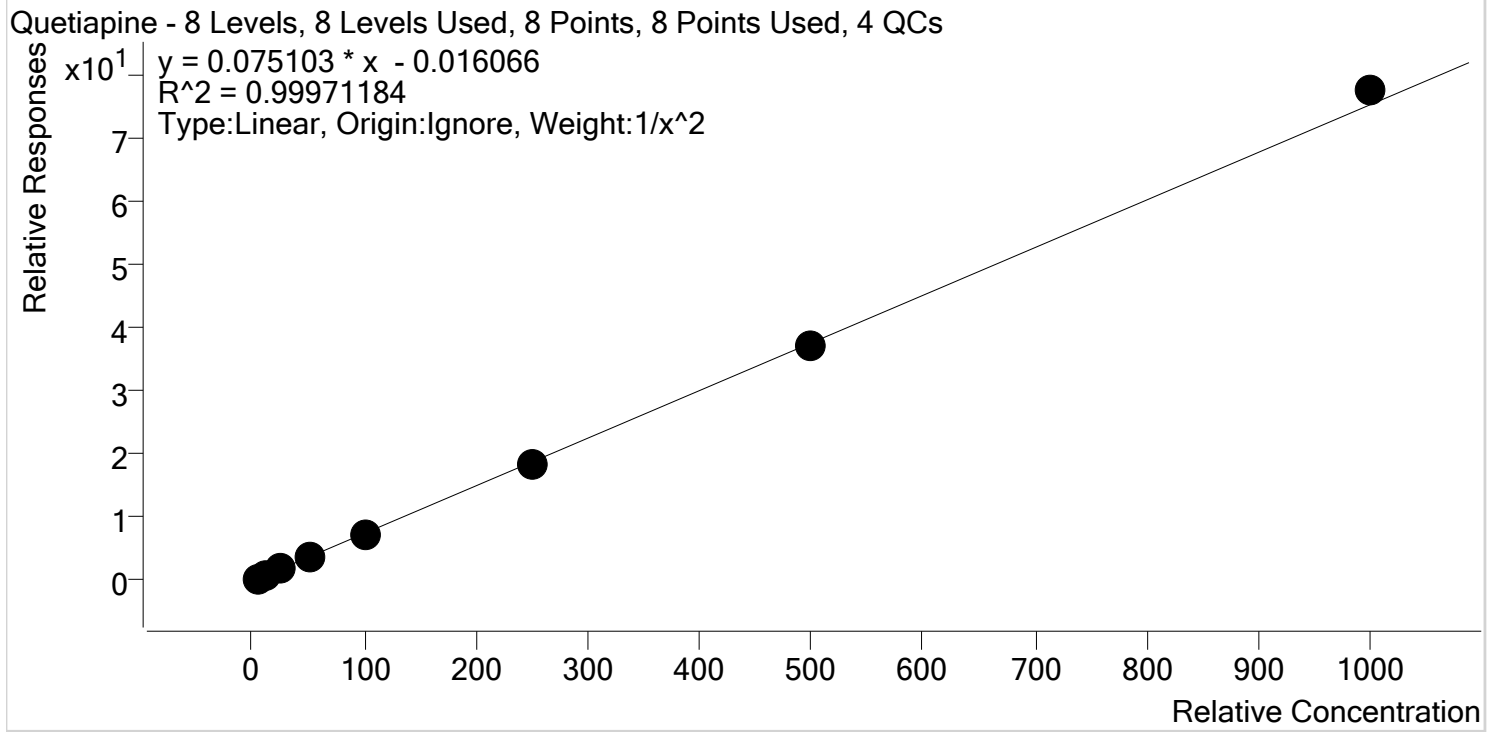


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.8
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	96.5	96.5
p1 Cal 6-250ng	6	✓	250.0	242.5	97.0
p1 Cal 7-500ng	7	✓	500.0	492.6	98.5
p1 Cal 8-1000ng	8	✓	1000.0	1018.5	101.8



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8



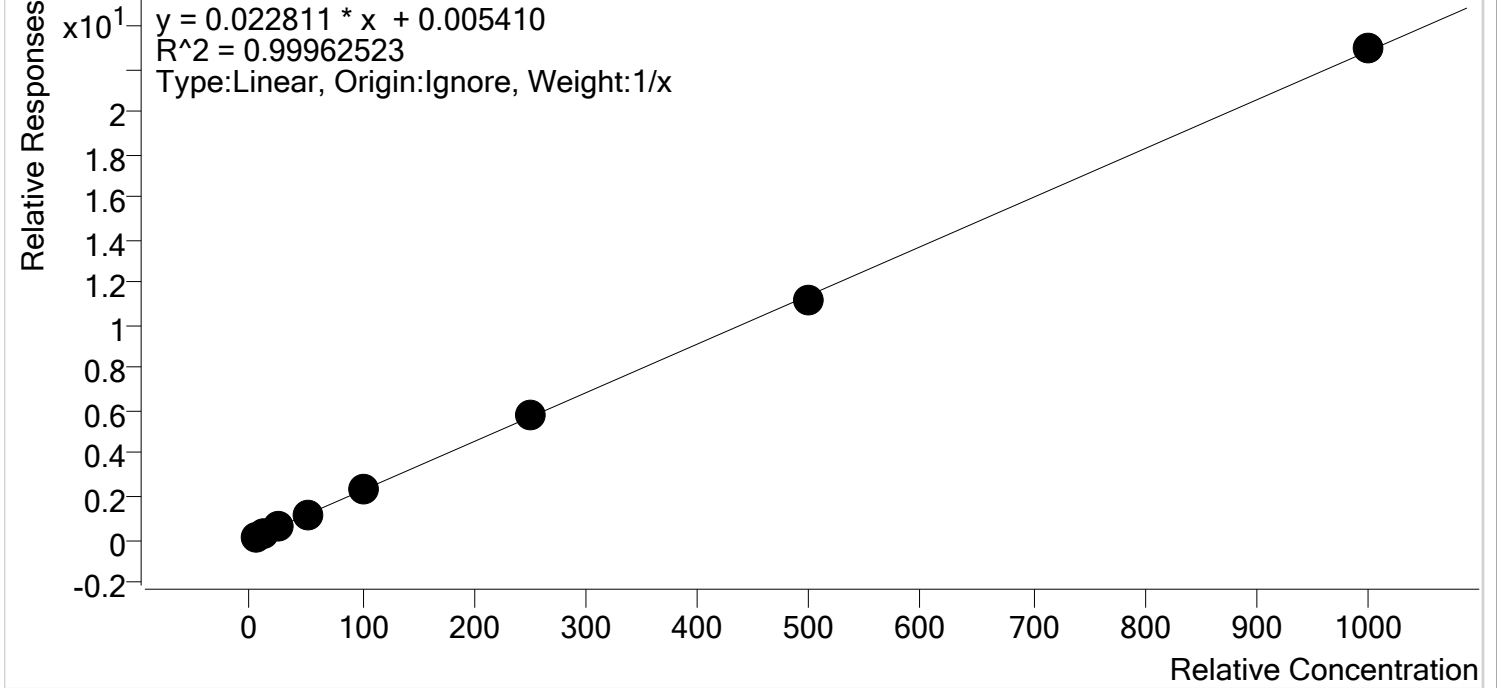
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng	7	✓	500.0	494.2	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1029.7	103.0



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3

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



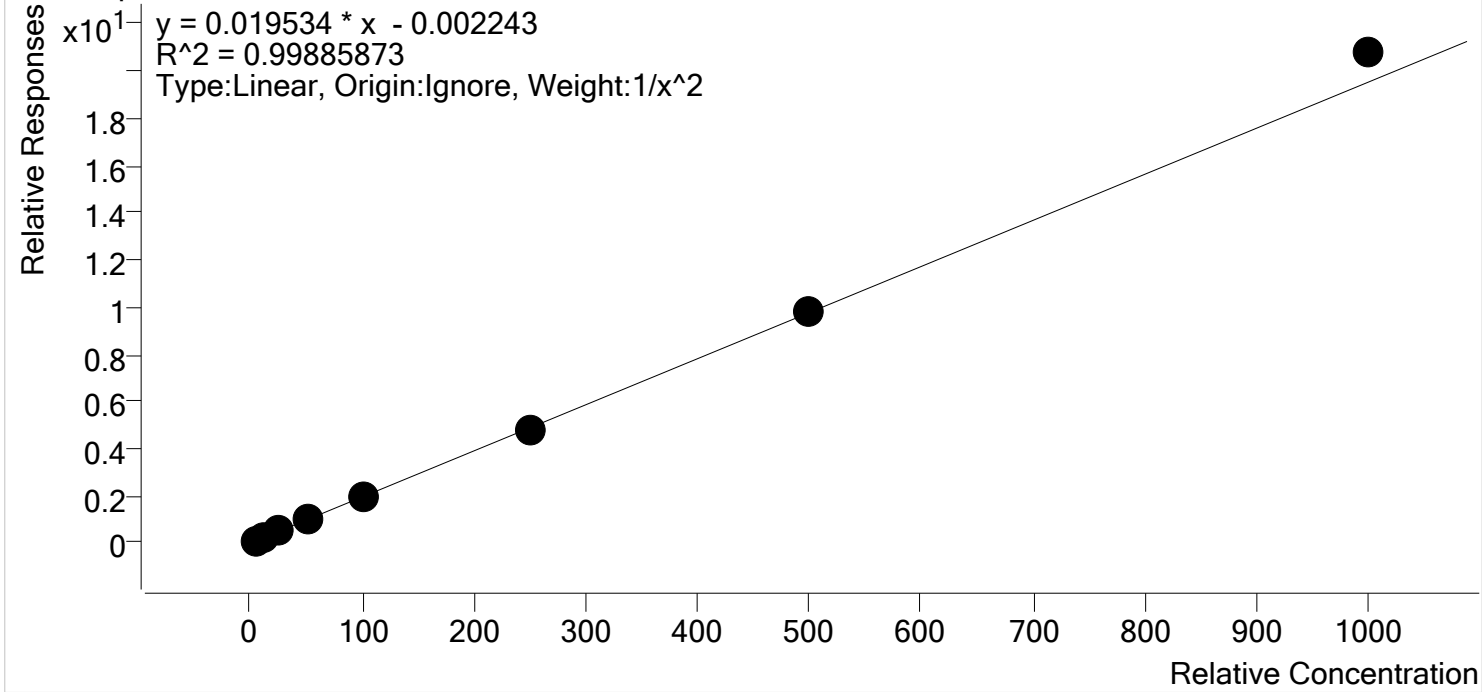
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.7
p1 Cal 2- 10ng	2	✓	10.0	9.6	95.8
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	50.8	101.7
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	258.0	103.2
p1 Cal 7-500ng	7	✓	500.0	486.9	97.4
p1 Cal 8-1000ng	8	✓	1000.0	1005.3	100.5



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	246.8	98.7
p1 Cal 7-500ng	7	✓	500.0	504.0	100.8
p1 Cal 8-1000ng	8	✓	1000.0	1064.2	106.4

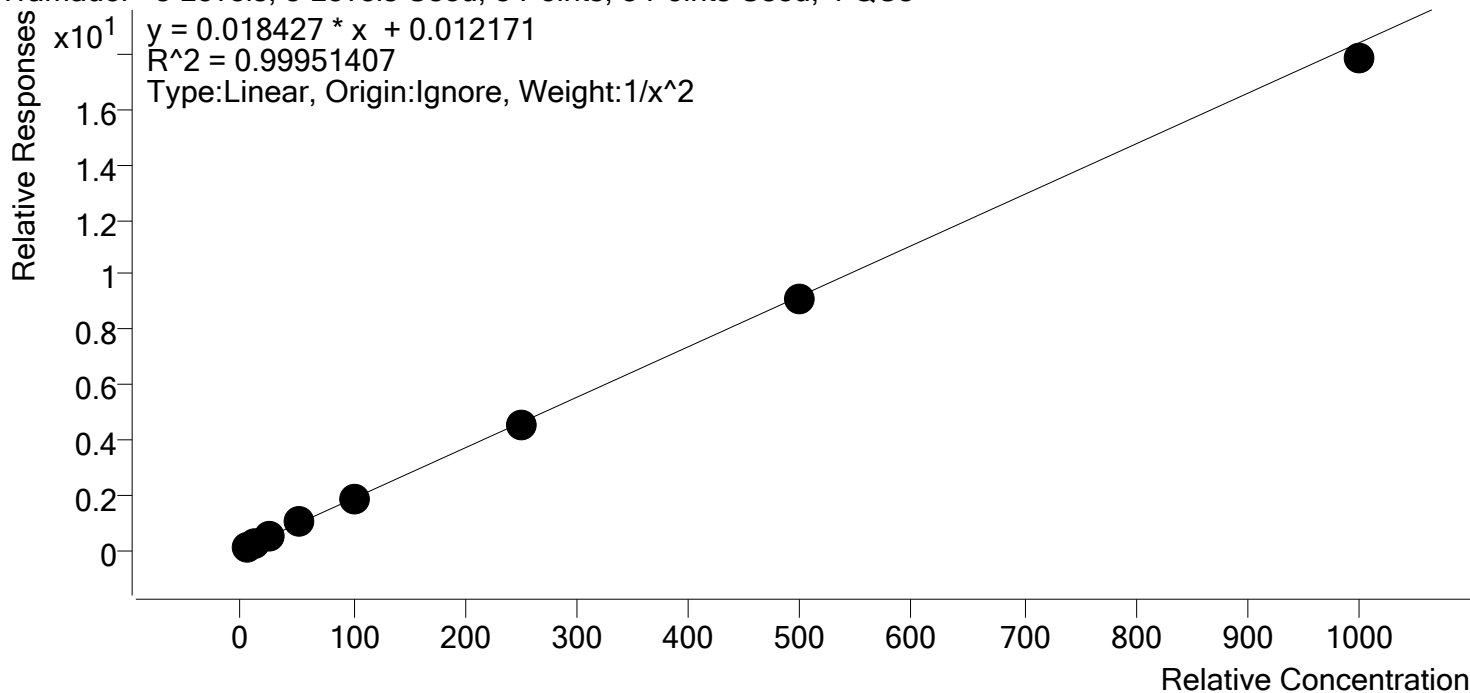




# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3

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

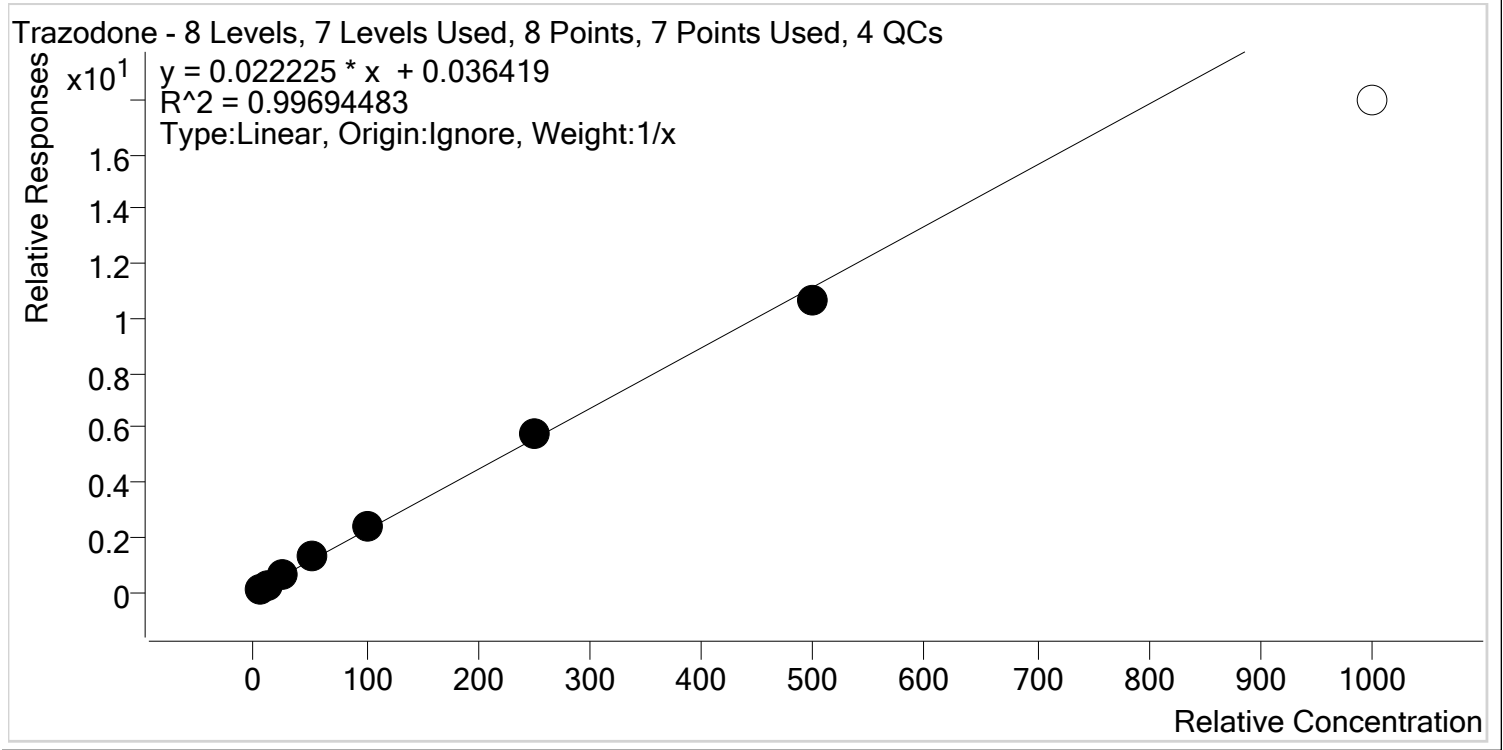


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.1
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	496.7	99.3
p1 Cal 8-1000ng	8	✓	1000.0	968.8	96.9



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6

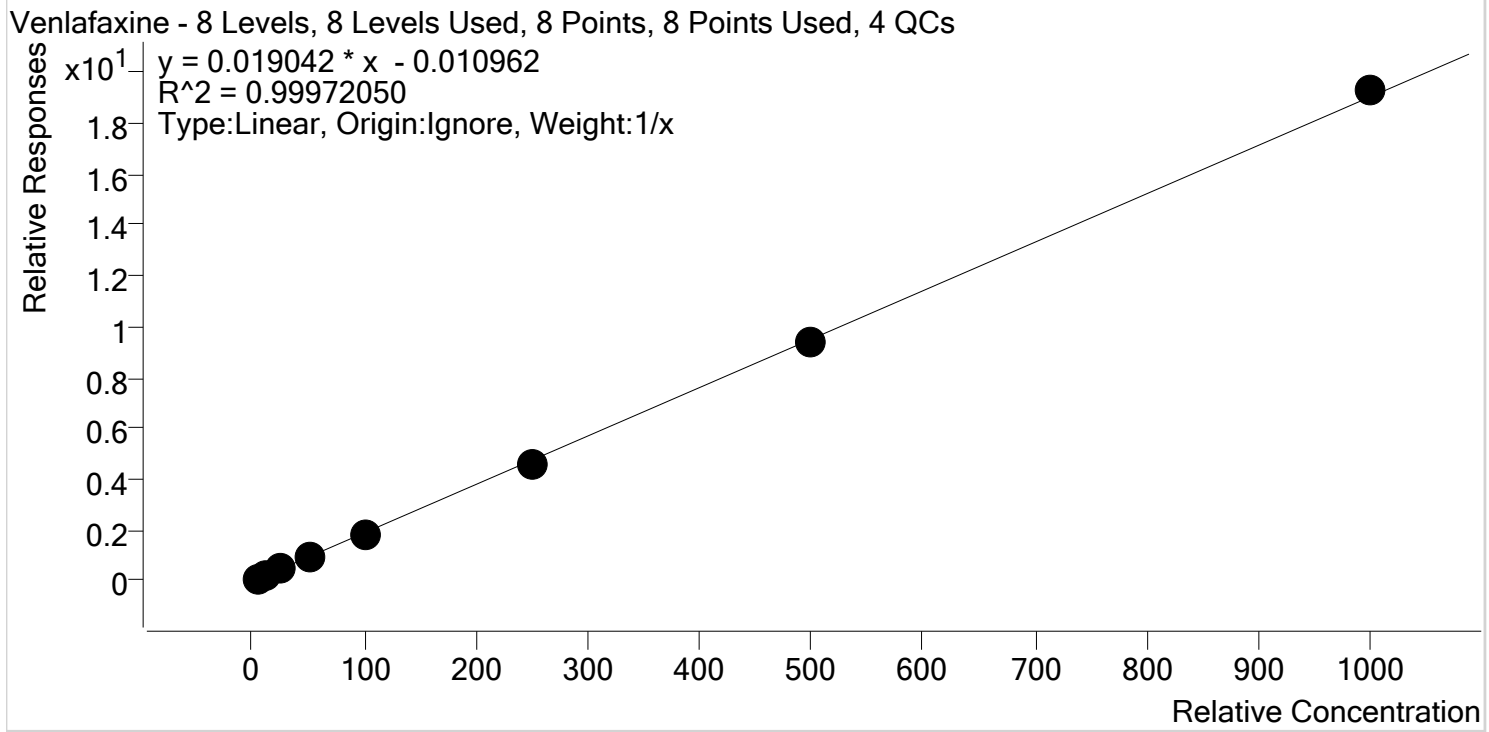


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	83.1
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.2
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	55.3	110.6
p1 Cal 5-100ng	5	✓	100.0	106.4	106.4
p1 Cal 6-250ng	6	✓	250.0	259.9	104.0
p1 Cal 7-500ng	7	✓	500.0	478.6	95.7
p1 Cal 8-1000ng	8	✗	1000.0	806.0	80.6



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6

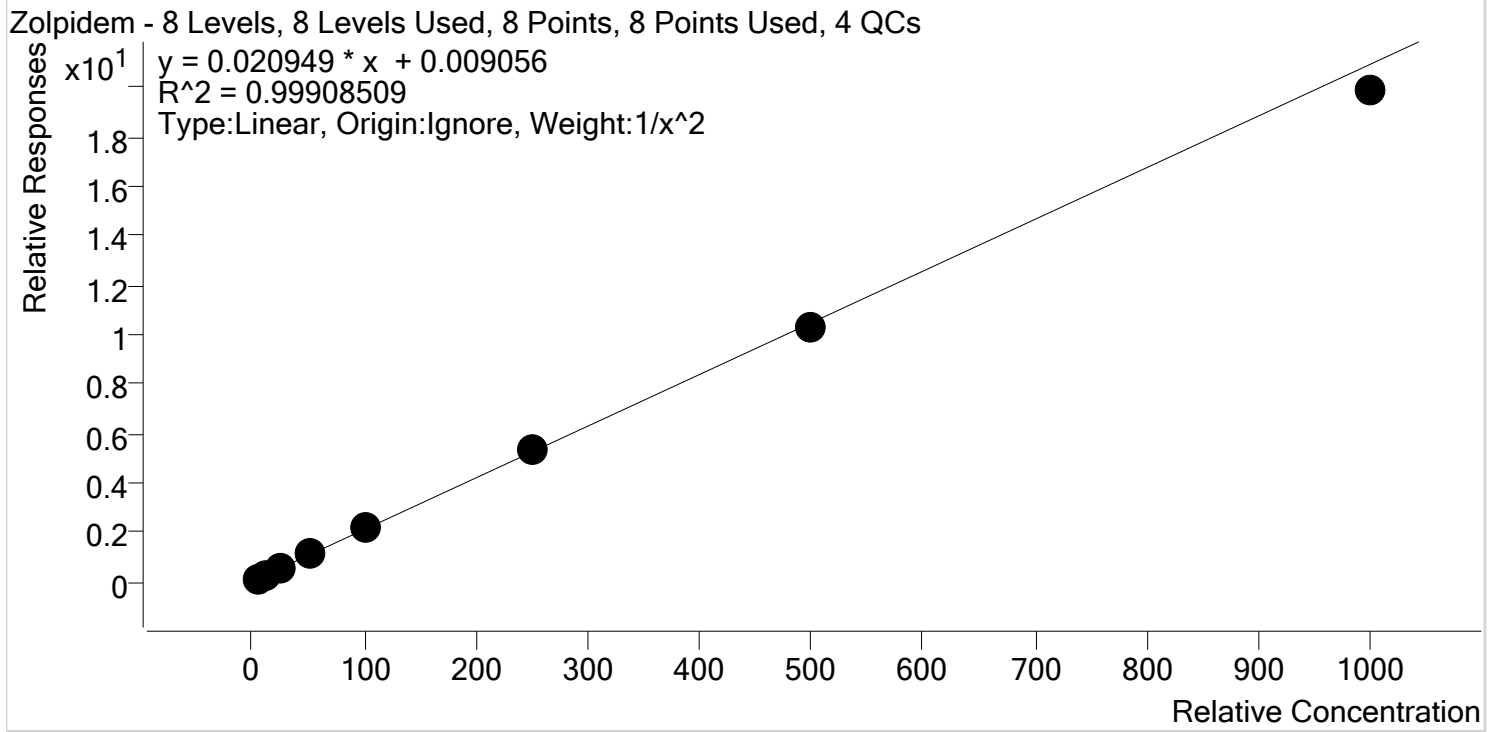


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.0
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	96.4	96.4
p1 Cal 6-250ng	6	✓	250.0	244.8	97.9
p1 Cal 7-500ng	7	✓	500.0	496.3	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1013.1	101.3



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 4/1/2020 9:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.4
p1 Cal 4-50ng	4	✓	50.0	51.7	103.5
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	251.6	100.7
p1 Cal 7-500ng	7	✓	500.0	492.5	98.5
p1 Cal 8-1000ng	8	✓	1000.0	949.2	94.9

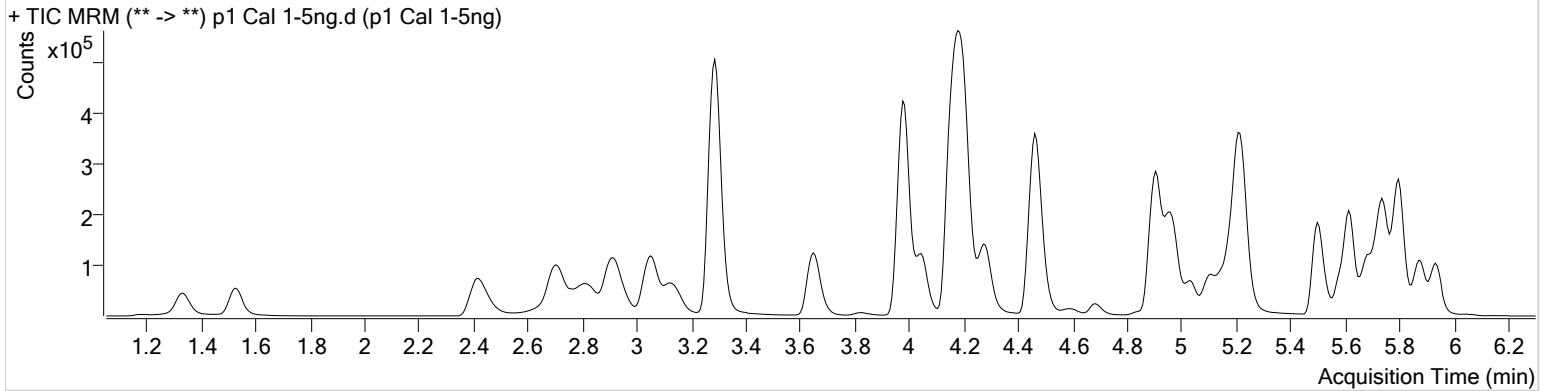
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 1-5ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 1-5ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-H12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 11:07:06 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	1274	90.84	71.0	113.75	55704	0.5008 ng/ml
7-aminoclonazepam	4.237	20043	110.70	84.7	1269.35	183039	5.0420 ng/ml
a-hydroxyalprazolam	5.680	5012	214.52	65.8	55.76	20376	5.1495 ng/ml
alpha-PVP	4.290	36951	605.69	50.9	167.40	340877	5.5056 ng/ml
Alprazolam	5.756	31143	416.26	103.6	615.70	158807	5.2072 ng/ml
Amphetamine	2.913	90898	2883.94	52.2	501.43	201153	4.8840 ng/ml
Benzoylcegonine	3.847	2206	283.79	6.9	22.21	16264	5.0823 ng/ml
Buprenorphine	5.869	1200	20.49	11.3 <b>Low</b>	∞	91620	0.5526 ng/ml
Bupropion	4.699	5488	271.57	104.5 <b>High</b>	9.17 <b>Low</b>	59880	5.5159 ng/ml
Carisoprodol	5.705	15009	42350.74	53.7	14.59	151809	4.9858 ng/ml
Citalopram	5.155	18348	238.05	40.0	546.38	160135	4.9858 ng/ml
Clonazepam	5.593	10221	763.08	34.3	720.26	23908	5.0476 ng/ml
Cocaine	4.196	66634	253.99	47.1	466.58	1045297	5.4480 ng/ml
Codeine	2.469	8123	5558.63	101.8	770.71	72955	5.0457 ng/ml
Cyclobenzaprine	5.590	21046	158.83	8.7	106.89	149016	5.0615 ng/ml
Dextromethorphan	5.197	11923	530.50	81.6	∞	108835	5.1018 ng/ml
Dextrorphan	4.051	11826	392.29	212.9	506.27	303110	5.1638 ng/ml
Diazepam	5.941	23435	229.98	87.8	225.22	202279	5.0238 ng/ml
Dihydrocodeine	2.447	20534	378.80	66.2	155.08	201088	5.0258 ng/ml
Diphenhydramine	5.225	54916	297.52	33.3	∞	799027	5.3800 ng/ml
Doxylamine	4.480	125925	476.46	96.7	11872.24	994706	4.9779 ng/ml
EDDP	5.196	29945	1331.94	40.8	8489.70	319309	5.0558 ng/ml
Fentanyl	5.046	1643	41.48	53.4	∞	179692	0.4921 ng/ml
Fluoxetine	5.675	19031	251.29	9.4	3004.59	151440	5.1305 ng/ml
Hydrocodone	2.937	24121	69.77	40.0	96.94	287042	4.9327 ng/ml
Hydromorphone	1.540	20446	366.14	77.3	175.30	147615	4.9976 ng/ml
Ketamine	3.986	58586	738.66	36.7	206.06	547971	4.9518 ng/ml
Lamotrigine	4.207	4536	361.68	77.3	2086.22	547971	4.9215 ng/ml
Lorazepam	5.728	20118	∞	55.4	58.19	23908	4.8290 ng/ml
Meprobamate	4.861	1188	13.76	59.2 <b>High</b>	17.47	17566	2.8694 ng/ml
Methadone	5.621	43156	∞	55.7	1533.62	416185	5.2643 ng/ml
Methamphetamine	3.121	62673	863.71	42.5	257.81	409982	5.1007 ng/ml
Metoprolol	4.259	5753	∞	104.8	213.82	1304267	4.7791 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	25509	4212.49	48.6	636.57	340877	5.0067 ng/ml
Mitragynine	5.193	5459	14568.14	37.5	282.35	416185	4.8773 ng/ml
Morphine	1.186	2238	296.62	25.2	91.92	4750	4.8559 ng/ml
Nordiazepam	5.881	19367	346.30	58.4	207.44	123584	4.9683 ng/ml
Norfentanyl	4.006	7748	785.35	36.3	49.00	728820	0.5059 ng/ml
Norhydrocodone	2.979	2927	∞	37.5	99.86	52885	5.3460 ng/ml
Noroxycodone	2.803	19456	145.98	50.0	100.28	129719	5.0447 ng/ml
O-desmethyl-tramadol	3.295	144040	1331.97	6.0	205.06	1510323	5.0610 ng/ml
Oxazepam	5.738	25367	665.28	72.0	152.16	315191	4.8272 ng/ml
Oxycodone	2.733	48697	182.11	31.4	572.82	437130	4.9828 ng/ml
Oxymorphone	1.337	21974	143.29	49.5	304.53	151221	4.9812 ng/ml
Phentermine	3.684	17709	706.97	3.2	39.63	422507	4.8637 ng/ml
Promethazine	5.500	47208	4182.40	29.6	202.38	405960	5.3563 ng/ml
Quetiapine	5.537	21020	832.73	60.7	316.48	58220	5.0213 ng/ml
Sertraline	5.743	10626	109.77	90.1	2245.29	86738	5.1333 ng/ml
Temazepam	5.805	53355	607.39	30.6	15.43	551030	5.0716 ng/ml
Tramadol	4.172	135199	931.09	3.4	54.46	1304267	4.9649 ng/ml
Trazodone	5.167	34518	365.49	78.3	∞	268082	4.1548 ng/ml
Venlafaxine	4.966	48587	232.73	36.3	402.16	528662	5.4022 ng/ml
Zolpidem	4.925	98097	4216.95	29.8	8680.91	874016	4.9253 ng/ml

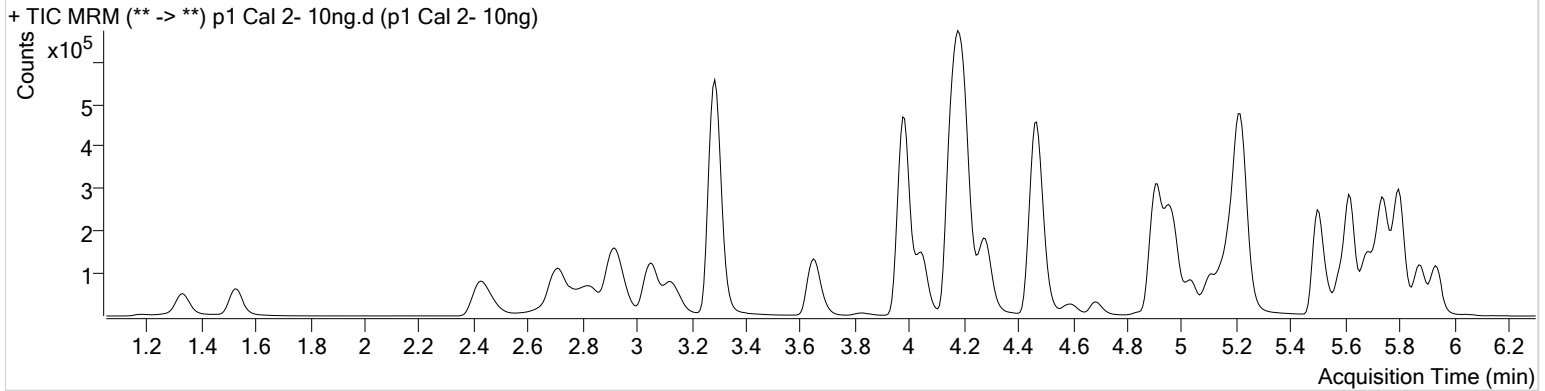
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 2- 10ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 2- 10ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-G12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 11:17:50 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	2520	115.02	71.4	221.61	56797	0.9906 ng/ml
7-aminoclonazepam	4.231	40543	4602.09	78.6	3765.91	183438	9.9765 ng/ml
a-hydroxyalprazolam	5.680	8744	785.64	65.1	78.66	20315	9.3594 ng/ml
alpha-PVP	4.290	82390	1324.30	51.0	446.69	394654	10.1147 ng/ml
Alprazolam	5.756	59997	179.08	99.5	400.65	152703	10.1984 ng/ml
Amphetamine	2.920	185115	2292.57	52.6	3276.58	216491	10.1432 ng/ml
Benzoylcegonine	3.847	4058	1464.30	8.8	16.58	15809	9.8028 ng/ml
Buprenorphine	5.869	2778	55.09	15.7	∞	114074	1.0069 ng/ml
Bupropion	4.705	13197	172.08	55.6	24.70	76380	10.1293 ng/ml
Carisoprodol	5.705	29710	84951.80	51.5	48.39	149768	10.0796 ng/ml
Citalopram	5.155	41995	883.64	40.6	392.35	190682	9.9252 ng/ml
Clonazepam	5.593	19144	268.44	35.3	139.86	24121	9.6070 ng/ml
Cocaine	4.196	139821	369.24	45.3	623.91	1111045	10.2479 ng/ml
Codeine	2.483	16529	235.02	101.9	150.80	76505	9.8568 ng/ml
Cyclobenzaprine	5.590	47749	6110.88	8.9	∞	176182	9.8953 ng/ml
Dextromethorphan	5.197	29750	24897.95	75.7	166.33	132136	10.3514 ng/ml
Dextrorphan	4.051	25711	798.83	216.9	132843.99	340001	9.8661 ng/ml
Diazepam	5.941	45117	273.36	87.6	1938.51	204232	9.9777 ng/ml
Dihydrocodeine	2.454	41579	529.85	67.1	412.34	222441	9.8617 ng/ml
Diphenhydramine	5.225	127764	2129.17	34.1	659.36	959301	10.0767 ng/ml
Doxylamine	4.480	272897	∞	96.5	23188.24	1107836	9.8961 ng/ml
EDDP	5.196	68779	688.97	41.5	466.34	375713	9.8696 ng/ml
Fentanyl	5.052	4166	73.63	58.5	9275.73	221895	1.0277 ng/ml
Fluoxetine	5.675	46195	1269.54	8.2	562.00	186630	10.2561 ng/ml
Hydrocodone	2.937	49059	176.52	39.4	87.17	302841	10.0991 ng/ml
Hydromorphone	1.540	40271	981.94	77.8	1123.56	148792	10.0263 ng/ml
Ketamine	3.992	118050	1621.01	38.0	309.43	564585	10.1136 ng/ml
Lamotrigine	4.207	8684	713.78	83.7	1467.95	564585	10.1785 ng/ml
Lorazepam	5.728	38557	∞	54.4	203.40	24121	10.1663 ng/ml
Meprobamate	4.861	2452	10.00	41.6 High	50.17	17738	8.2376 ng/ml
Methadone	5.621	106560	13263.53	53.6	732.67	512651	10.1268 ng/ml
Methamphetamine	3.121	104235	1879.60	42.8	997.20	423028	9.3626 ng/ml
Metoprolol	4.259	12997	337.28	94.6	595.60	1432284	10.6389 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	57700	10087.76	48.4	∞	394654	10.2817 ng/ml
Mitragynine	5.193	12556	35382.04	37.9	2840.42	512651	10.1069 ng/ml
Morphine	1.186	4793	720.13	22.5	243.46	4632	10.5595 ng/ml
Nordiazepam	5.881	37834	954.82	59.1	714.18	122553	10.0094 ng/ml
Norfentanyl	4.006	15855	168.07	38.2	58.29	783458	0.9828 ng/ml
Norhydrocodone	2.979	5408	57.10	44.7	78.77	54605	9.2512 ng/ml
Noroxycodone	2.810	41114	365.02	49.9	648.56	135312	9.9733 ng/ml
O-desmethyl-tramadol	3.295	284310	1439.75	6.0	498.78	1545943	9.8722 ng/ml
Oxazepam	5.738	49747	1279.95	70.3	∞	304758	10.2979 ng/ml
Oxycodone	2.740	96152	329.98	31.9	375.57	447001	9.9948 ng/ml
Oxymorphone	1.337	42537	134.13	48.4	∞	152029	9.8911 ng/ml
Phentermine	3.684	37537	394.74	2.8	∞	451459	10.2916 ng/ml
Promethazine	5.500	113701	359.18	30.4	1315.34	501734	10.2034 ng/ml
Quetiapine	5.537	47324	769.39	61.2	289.68	64513	9.9812 ng/ml
Sertraline	5.743	24044	237.26	91.3	201.42	107417	9.5755 ng/ml
Temazepam	5.805	103760	793.41	29.3	50.21	544635	9.8675 ng/ml
Tramadol	4.172	281407	1548.47	3.3	140.04	1432284	10.0018 ng/ml
Trazodone	5.167	78950	12673.03	77.5	∞	315579	9.6179 ng/ml
Venlafaxine	4.966	106342	521.22	36.8	329.94	589302	10.0523 ng/ml
Zolpidem	4.925	197046	296.01	29.8	4881.88	887181	10.1698 ng/ml



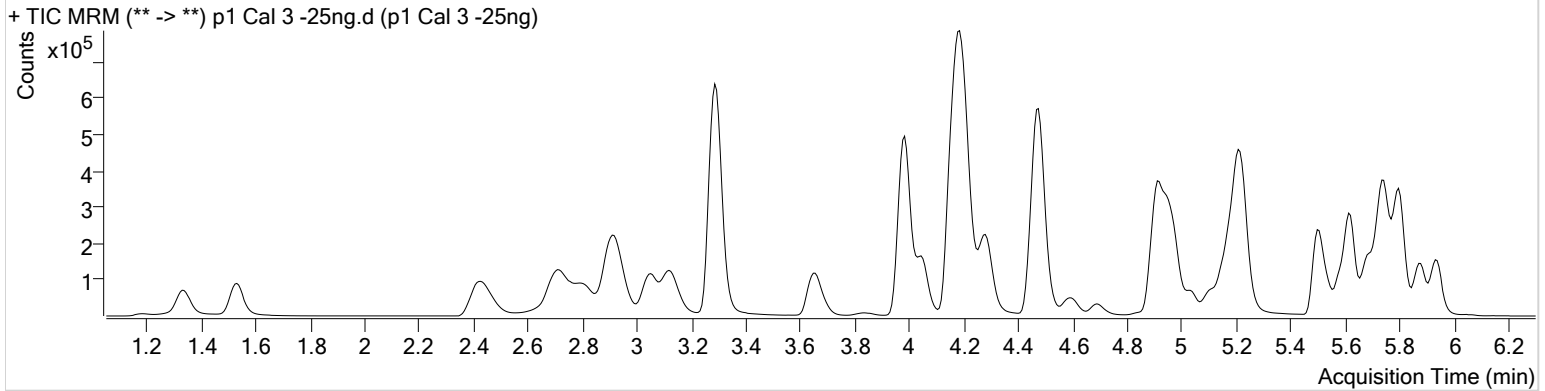
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 3 -25ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 3 -25ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-F12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 11:28:26 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	5945	244.15	72.0	∞	53422	2.5161 ng/ml
7-aminoclonazepam	4.237	94592	24913.52	81.1	4509.19	174570	24.1733 ng/ml
a-hydroxyalprazolam	5.680	21202	419.88	60.7	1797.07	19201	24.7385 ng/ml
alpha-PVP	4.290	181822	4144.83	51.0	8455.16	347143	24.5808 ng/ml
Alprazolam	5.756	136567	553.39	103.8	483.59	143641	24.3467 ng/ml
Amphetamine	2.913	389320	2100.14	53.2	7007.60	186973	26.1505 ng/ml
Benzoyllecgonine	3.847	9856	650.60	8.1	97.41	15604	24.4254 ng/ml
Buprenorphine	5.869	5060	31.38	13.9	68.99	84653	2.4360 ng/ml
Bupropion	4.705	25964	890.18	54.8	109.78	60392	24.7510 ng/ml
Carisoprodol	5.705	68728	∞	53.4	129.10	141701	24.7543 ng/ml
Citalopram	5.155	74176	1084.28	41.2	1706.49	138295	24.7033 ng/ml
Clonazepam	5.593	46157	86.59	34.5	242031.26	22415	25.3675 ng/ml
Cocaine	4.196	307565	14811.12	46.9	9969.71	1003242	24.2170 ng/ml
Codeine	2.469	37311	204.35	103.4	469.65	69931	24.4450 ng/ml
Cyclobenzaprine	5.590	87159	16670.94	9.2	223.11	134468	23.9422 ng/ml
Dextromethorphan	5.197	50875	264.52	78.9	729.96	95061	24.4311 ng/ml
Dextrorphan	4.051	54127	488.09	212.4	2728.63	284163	24.6207 ng/ml
Diazepam	5.941	103671	2363.97	88.6	654.12	195965	24.5067 ng/ml
Dihydrocodeine	2.441	96100	∞	66.8	443.59	212679	24.9694 ng/ml
Diphenhydramine	5.225	230129	48564.21	33.8	360900.60	693908	24.5374 ng/ml
Doxylamine	4.480	575611	9858.34	96.3	75351.14	944759	24.8037 ng/ml
EDDP	5.196	134846	1668.84	41.4	2945.63	296000	24.5617 ng/ml
Fentanyl	5.046	7267	81.60	58.5	6789.99	158710	2.5297 ng/ml
Fluoxetine	5.675	80871	1390.94	8.7	14738.82	136687	24.7307 ng/ml
Hydrocodone	2.937	109991	136.67	39.3	∞	274116	25.9547 ng/ml
Hydromorphone	1.540	93576	∞	77.8	847.13	141374	24.9156 ng/ml
Ketamine	3.992	270087	2321.36	38.1	693.38	534745	25.0663 ng/ml
Lamotrigine	4.207	18895	1643.00	85.0	7919.77	534745	24.9493 ng/ml
Lorazepam	5.728	91750	∞	53.7	255.72	22415	27.7566 ng/ml
Meprobamate	4.861	5743	∞	28.7	29.00	16179	24.7187 ng/ml
Methadone	5.621	187719	5924.88	55.3	365.75	365676	24.3874 ng/ml
Methamphetamine	3.121	233831	2281.21	42.3	2276.19	391106	25.3771 ng/ml
Metoprolol	4.259	27177	983.92	96.7	∞	1295641	25.5938 ng/ml

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# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	110331	1248.44	48.4	1973.04	347143	22.9656 ng/ml
Mitragynine	5.193	21976	3398.67	38.8	6020.43	365676	26.4742 ng/ml
Morphine	1.186	11213	181.23	23.1	672.86	4554	25.0093 ng/ml
Norbuprenorphine	4.916	242	∞	56.1 <b>Low</b>	11.75	3906	3.2832 ng/ml
Nordiazepam	5.881	89106	1094.38	57.2	1159.26	115885	25.2712 ng/ml
Norfentanyl	4.006	34348	577.46	37.8	49.91	691673	2.4437 ng/ml
Norhydrocodone	2.972	11874	40.31	46.7	71.90	48810	22.1391 ng/ml
Noroxycodone	2.803	93319	232.75	48.0	296.86	123167	24.5102 ng/ml
O-desmethyl-tramadol	3.295	655055	3511.72	6.1	2549.12	1450051	24.4269 ng/ml
Oxazepam	5.738	116141	6522.11	69.8	170.61	283451	26.5944 ng/ml
Oxycodone	2.733	221207	1925.84	31.7	3833.79	417794	25.1879 ng/ml
Oxymorphone	1.337	101707	1557.36	47.1	192.82	142975	25.6464 ng/ml
Phentermine	3.684	77691	1172.41	2.6	103.91	384342	25.9557 ng/ml
Promethazine	5.500	199749	1347.29	30.7	293.68	366466	24.1942 ng/ml
Quetiapine	5.537	90360	2030.41	60.4	3813.07	49499	24.5203 ng/ml
Sertraline	5.743	45193	732.13	88.3	1504.78	79030	24.8316 ng/ml
Temazepam	5.805	243572	711.36	28.7	306.23	515023	24.3250 ng/ml
Tramadol	4.172	624971	1896.61	3.4	178.31	1295641	25.5164 ng/ml
Trazodone	5.167	143630	16332.64	80.4	3212.23	233789	26.0040 ng/ml
Venlafaxine	4.966	215978	509.53	36.3	638.20	478941	24.2575 ng/ml
Zolpidem	4.925	445906	240766.02	30.4	713.84	825433	25.3545 ng/ml

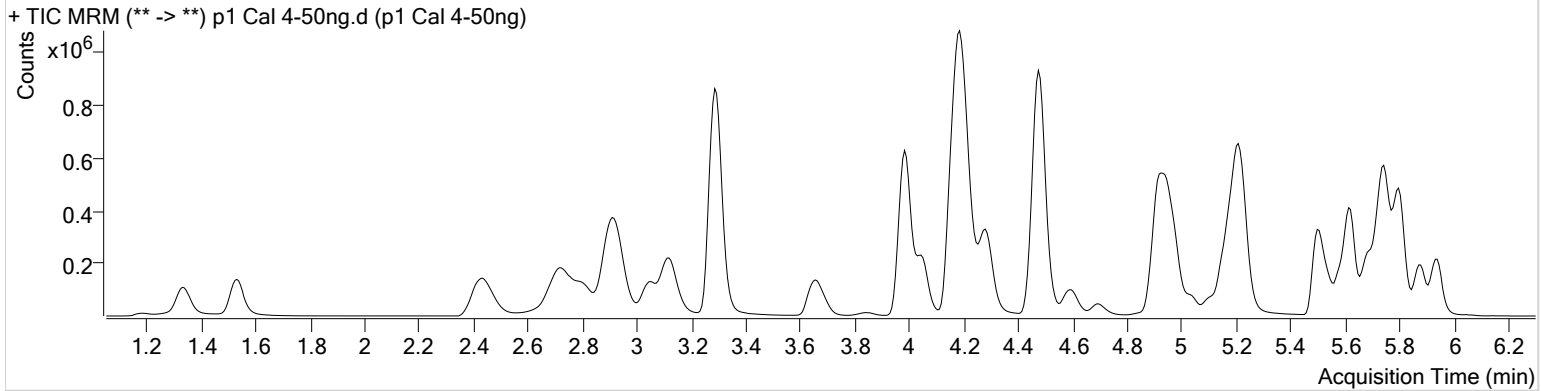
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 4-50ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 4-50ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-E12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 11:39:03 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	12348	3521.69	70.6	495.54	55405	5.0594 ng/ml
7-aminoclonazepam	4.237	195780	394.78	80.1	∞	172860	50.3128 ng/ml
a-hydroxyalprazolam	5.680	42514	532.20	63.1	1323.69	18787	51.1879 ng/ml
alpha-PVP	4.290	363619	582.78	50.6	4685.60	344573	48.9894 ng/ml
Alprazolam	5.756	274679	922.15	104.2	2622.67	142148	49.2424 ng/ml
Amphetamine	2.907	807793	5990.46	53.1	4618.49	193193	53.5308 ng/ml
Benzoylcegonine	3.847	20442	1044.24	7.9	167.26	15884	49.9832 ng/ml
Buprenorphine	5.869	10466	66.20	18.5	74.84	84563	5.0184 ng/ml
Bupropion	4.705	53284	325.01	57.3	169.85	61381	49.6655 ng/ml
Carisoprodol	5.705	139144	12714.31	53.0	584.43	141883	50.1296 ng/ml
Citalopram	5.155	147924	165.17	40.7	345.12	135816	50.5450 ng/ml
Clonazepam	5.593	94417	2317.68	33.9	∞	22259	52.5462 ng/ml
Cocaine	4.196	633229	24655.96	46.4	28942.79	1002870	49.3257 ng/ml
Codeine	2.462	78671	819.57	101.3	1807.34	70057	51.5277 ng/ml
Cyclobenzaprine	5.590	175982	17019.79	8.9	143.92	128747	50.7098 ng/ml
Dextromethorphan	5.197	101262	1156.06	78.3	2049.60	92026	50.0975 ng/ml
Dextrorphan	4.051	112062	1764.97	209.8	7053.97	285946	50.4953 ng/ml
Diazepam	5.941	200248	1923.21	90.0	3858.01	186214	50.2690 ng/ml
Dihydrocodeine	2.434	200000	∞	66.3	931.71	217757	51.5771 ng/ml
Diphenhydramine	5.225	460463	917.01	34.4	3603.18	687110	49.2027 ng/ml
Doxylamine	4.480	1188532	∞	96.4	50730.14	961297	50.5626 ng/ml
EDDP	5.196	300712	608.65	42.3	230.24	324196	50.0102 ng/ml
Fentanyl	5.046	14391	1706.81	58.1	7144.56	159133	5.0124 ng/ml
Fluoxetine	5.675	162549	58442.18	8.6	∞	137362	49.6191 ng/ml
Hydrocodone	2.937	224756	∞	39.4	148.97	293464	50.1173 ng/ml
Hydromorphone	1.533	189573	2974.11	78.3	1676.13	140630	51.0271 ng/ml
Ketamine	3.992	542715	2110.26	38.1	933.79	528365	51.4411 ng/ml
Lamotrigine	4.207	39138	2758.82	79.6	8154.02	528365	53.6235 ng/ml
Lorazepam	5.728	170400	4634.30	57.1	∞	22259	52.8712 ng/ml
Meprobamate	4.861	11356	1609.25	26.8	316.70	16244	50.8868 ng/ml
Methadone	5.621	391225	701.94	53.2	5488.60	367360	50.1373 ng/ml
Methamphetamine	3.114	507536	2108.25	42.3	2663.81	418963	53.3329 ng/ml
Metoprolol	4.259	55014	3087.53	97.8	∞	1282180	53.1509 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	227397	∞	49.0	5959.92	344573	48.2501 ng/ml
Mitragynine	5.193	43504	80014.48	38.4	1097.04	367360	53.2854 ng/ml
Morphine	1.186	22304	312.90	23.0	750.60	4454	50.7691 ng/ml
Norbuprenorphine	4.922	338	32.99	100.6	27.21	3772	4.8287 ng/ml
Nordiazepam	5.881	173541	2407.83	57.4	645.34	110256	51.9702 ng/ml
Norfentanyl	4.006	73154	3013.80	37.5	133.95	711791	5.0811 ng/ml
Norhydrocodone	2.972	24204	97.66	45.8	212.09	48576	44.9243 ng/ml
Noroxycodone	2.796	188179	1040.94	49.1	784.14	123613	49.0046 ng/ml
O-desmethyl-tramadol	3.295	1347268	6853.28	6.0	452.76	1468933	49.7189 ng/ml
Oxazepam	5.738	223741	5914.78	70.6	1275.96	279000	52.5226 ng/ml
Oxycodone	2.727	454002	3006.21	32.1	2594.87	427174	50.9646 ng/ml
Oxymorphone	1.337	206271	∞	48.0	∞	144195	51.9001 ng/ml
Phentermine	3.684	161858	2763.63	2.6	252.89	406445	51.7688 ng/ml
Promethazine	5.500	406282	895.56	29.9	617.76	358276	50.0680 ng/ml
Quetiapine	5.537	182321	1229.76	60.6	1568.77	48361	50.4118 ng/ml
Sertraline	5.743	86166	639.40	88.8	384.67	73968	50.8308 ng/ml
Temazepam	5.805	495350	2129.74	28.6	246.32	516222	49.2366 ng/ml
Tramadol	4.172	1234320	1251.78	3.4	343.48	1282180	51.5816 ng/ml
Trazodone	5.167	282095	41365.72	78.6	812.84	222890	55.3074 ng/ml
Venlafaxine	4.966	439445	14481.81	35.9	1290.60	469050	49.7766 ng/ml
Zolpidem	4.925	909328	87783.48	30.5	167.60	832201	51.7266 ng/ml

# AM #28 Multi-Drug Quant. Results

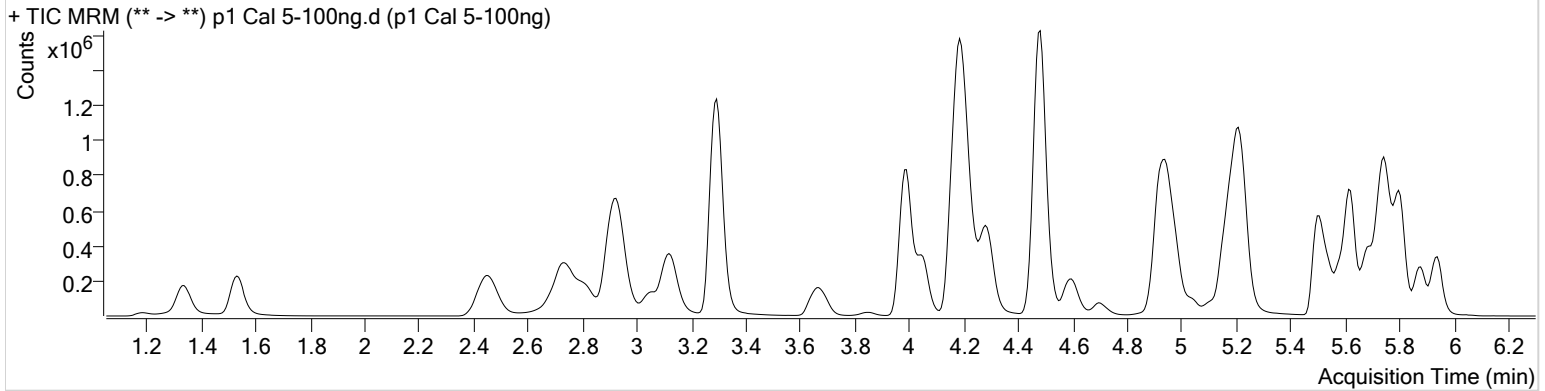
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**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 5-100ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 5-100ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-D12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 11:49:37 AM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	23716	903.84	69.4	1871.65	53521	10.0801 ng/ml
7-aminoclonazepam	4.237	361440	13119.91	80.3	12407.88	165056	97.0934 ng/ml
a-hydroxyalprazolam	5.680	83142	1067.74	60.3	1786.59	18455	102.3677 ng/ml
alpha-PVP	4.290	687854	11972.47	51.5	10959.49	334694	94.9083 ng/ml
Alprazolam	5.756	516730	1106.21	101.9	1659.74	135969	96.6192 ng/ml
Amphetamine	2.920	1471259	17369.29	52.7	13394.54	184712	102.8886 ng/ml
Benzoylcegonine	3.853	38933	1450.65	8.2	464.47	15926	95.1266 ng/ml
Buprenorphine	5.869	23762	176.49	15.2	97.35	94184	10.2054 ng/ml
Bupropion	4.705	109768	12665.86	58.1	607.48	63449	98.6771 ng/ml
Carisoprodol	5.705	253164	∞	54.5	1320.96	127374	101.6739 ng/ml
Citalopram	5.155	308429	1711.37	40.6	693.95	142554	100.7729 ng/ml
Clonazepam	5.593	172979	2406.28	34.1	70389.21	20375	105.4468 ng/ml
Cocaine	4.196	1170962	58862.32	47.2	23459.63	960718	94.7304 ng/ml
Codeine	2.476	148001	395.95	101.9	896.90	69121	98.3137 ng/ml
Cyclobenzaprine	5.590	381660	301417.13	9.3	1727.06	143016	99.1928 ng/ml
Dextromethorphan	5.204	210435	778.91	80.2	502.37	97713	97.9278 ng/ml
Dextrorphan	4.051	219563	1858.30	208.6	4974.52	284872	99.1618 ng/ml
Diazepam	5.941	380507	1982.77	89.6	3530.78	180055	99.2119 ng/ml
Dihydrocodeine	2.447	379706	2507.17	67.1	838.73	217669	98.6772 ng/ml
Diphenhydramine	5.225	982870	645.92	33.7	1727.99	740302	97.1131 ng/ml
Doxylamine	4.480	2351368	50889.58	97.2	∞	967031	99.6535 ng/ml
EDDP	5.196	608158	750.85	41.9	244907.66	337239	97.2287 ng/ml
Fentanyl	5.052	31434	813.34	58.4	3617.84	176224	9.9026 ng/ml
Fluoxetine	5.675	355069	611.08	8.7	3196.54	152526	97.7614 ng/ml
Hydrocodone	2.937	428105	147.77	40.4	∞	277144	101.7296 ng/ml
Hydromorphone	1.533	365582	1452.51	77.8	2689.90	146414	94.7489 ng/ml
Ketamine	3.992	1033528	2593.67	38.5	2056.64	512850	101.3585 ng/ml
Lamotrigine	4.214	73324	3996.03	80.3	16155.14	512850	104.6237 ng/ml
Lorazepam	5.728	302747	∞	57.6	∞	20375	103.6611 ng/ml
Meprobamate	4.861	22375	157.74	25.3	253.05	16627	100.0527 ng/ml
Methadone	5.621	853326	47567.40	52.9	2063.25	407634	98.1440 ng/ml
Methamphetamine	3.121	890581	6070.62	42.4	22622.65	383492	103.9499 ng/ml
Metoprolol	4.259	104351	4085.88	98.2	∞	1243541	104.6798 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	494567	∞	48.8	23053.67	334694	108.6859 ng/ml
Mitragynine	5.193	94471	155880.26	37.7	88360.67	407634	105.3815 ng/ml
Morphine	1.186	43515	2692.23	23.9	1406.06	4410	99.9590 ng/ml
Norbuprenorphine	4.929	775	57.26	91.7	122.28	4116	10.3534 ng/ml
Nordiazepam	5.881	323773	7429.66	57.8	10958.30	107136	99.9949 ng/ml
Norfentanyl	4.006	138103	14647.71	37.2	8450.38	686715	9.9635 ng/ml
Norhydrocodone	2.979	48163	279.33	40.8	67.53	43286	99.8222 ng/ml
Noroxycodone	2.803	363686	9784.40	49.8	1807.51	120736	96.7312 ng/ml
O-desmethyl-tramadol	3.295	2597593	8830.55	6.0	2885.11	1436780	98.1236 ng/ml
Oxazepam	5.738	405072	10590.63	70.4	9129.29	252973	105.3647 ng/ml
Oxycodone	2.733	880994	5665.98	32.2	2747.43	422554	100.3644 ng/ml
Oxymorphone	1.337	394391	∞	49.4	593.95	141875	101.1611 ng/ml
Phentermine	3.684	313304	1768.23	2.5	307.08	396423	103.3842 ng/ml
Promethazine	5.500	902184	1162.02	29.8	2495.89	411616	96.5421 ng/ml
Quetiapine	5.537	396311	3566.74	60.5	428.58	53130	99.5345 ng/ml
Sertraline	5.743	178923	1670.58	90.9	460.98	78648	99.4954 ng/ml
Temazepam	5.805	940970	1600.71	28.7	211.89	491179	98.1844 ng/ml
Tramadol	4.179	2307918	48321.19	3.4	693.40	1243541	100.0564 ng/ml
Trazodone	5.167	605331	∞	78.9	∞	252073	106.4112 ng/ml
Venlafaxine	4.966	817778	799.84	35.7	610.97	448301	96.3729 ng/ml
Zolpidem	4.932	1748542	68941.44	30.2	842.72	824056	100.8551 ng/ml

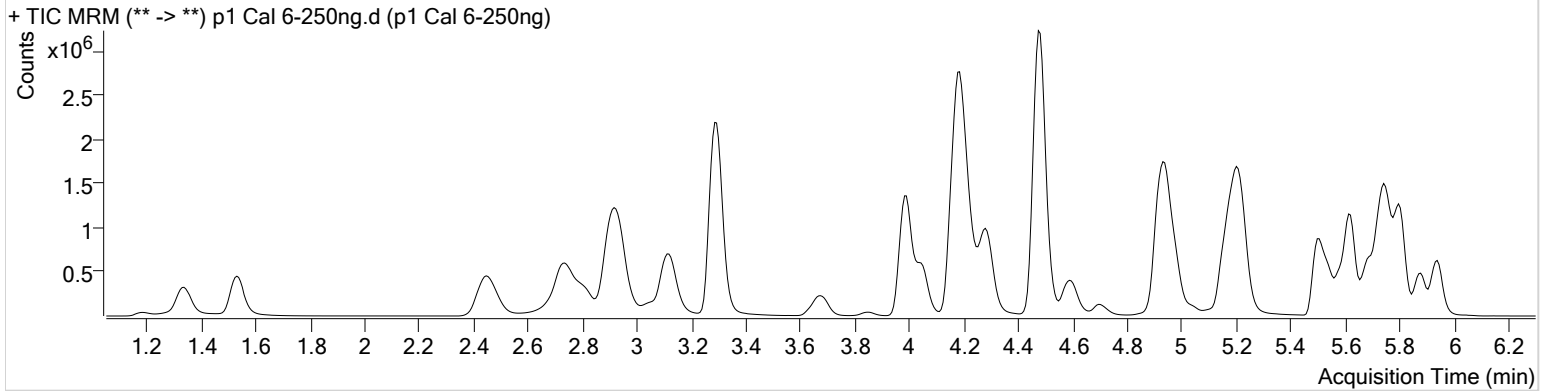
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 6-250ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 6-250ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-C12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 12:00:13 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	54845	712.27	70.7	628.76	49191	25.3939 ng/ml
7-aminoclonazepam	4.231	733638	13039.86	81.7	29125.09	130991	248.0220 ng/ml
a-hydroxyalprazolam	5.680	175123	575.09	64.3	777.28	15310	260.6225 ng/ml
alpha-PVP	4.290	1560279	32388.52	51.0	29463.07	294434	243.8874 ng/ml
Alprazolam	5.756	1069863	1350.15	102.8	2088.43	109210	248.6928 ng/ml
Amphetamine	2.913	2979779	28979.38	52.9	36540.57	159771	242.2671 ng/ml
Benzoylcegonine	3.847	90684	8256.15	7.9	270.37	14117	250.3126 ng/ml
Buprenorphine	5.869	45042	312.84	15.7	386.59	70669	25.7451 ng/ml
Bupropion	4.705	229873	1921.61	57.6	531.06	51803	252.6295 ng/ml
Carisoprodol	5.705	531527	∞	54.5	∞	110438	246.3132 ng/ml
Citalopram	5.155	548820	1279.55	40.3	660288.18	101098	253.4060 ng/ml
Clonazepam	5.593	374381	26862.76	33.8	∞	18806	247.6294 ng/ml
Cocaine	4.196	2512442	144419.26	46.3	89465.55	798625	243.6861 ng/ml
Codeine	2.476	318515	1038.86	101.8	1010.08	57338	255.1764 ng/ml
Cyclobenzaprine	5.590	679365	2380.51	9.2	2492.05	100462	251.6620 ng/ml
Dextromethorphan	5.197	360964	1127.06	78.4	847.66	66864	245.2845 ng/ml
Dextrorphan	4.051	454126	3853.19	210.3	10479.39	233941	249.5189 ng/ml
Diazepam	5.941	835761	3960.83	87.9	5695.24	156637	251.1622 ng/ml
Dihydrocodeine	2.441	848294	7570.17	66.6	∞	195976	246.0362 ng/ml
Diphenhydramine	5.225	1761893	2255.61	34.0	2003.30	524909	244.9510 ng/ml
Doxylamine	4.480	5081115	65391.45	97.0	201296.13	825479	252.6100 ng/ml
EDDP	5.196	1309754	45548.56	42.3	1082.03	284284	248.4018 ng/ml
Fentanyl	5.046	57414	8745.19	58.3	1371.59	128522	24.8243 ng/ml
Fluoxetine	5.675	621381	∞	8.9	671.76	105277	248.1084 ng/ml
Hydrocodone	2.937	900169	1344.30	39.8	1016.34	233671	254.6512 ng/ml
Hydromorphone	1.533	818533	1769.19	77.6	1363.26	122588	253.8301 ng/ml
Ketamine	3.992	2313766	122980.55	37.9	12952.50	462038	252.5339 ng/ml
Lamotrigine	4.207	138260	5966.85	80.6	14722.61	462038	220.2936 ng/ml
Lorazepam	5.728	545253	4264.97	56.1	6177.52	18806	203.3192 ng/ml
Meprobamate	4.861	50921	11039.92	25.3	611.49	14896	257.6641 ng/ml
Methadone	5.621	1586817	1974.55	52.2	6392.80	303628	244.3879 ng/ml
Methamphetamine	3.114	1908241	13343.93	41.9	123420.25	333063	259.1922 ng/ml
Metoprolol	4.259	217449	19439.11	96.0	∞	1101219	247.3593 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	951137	5152.38	48.6	24525.30	294434	238.2234 ng/ml
Mitragynine	5.193	162443	5303.46	38.1	4534.67	303628	244.7821 ng/ml
Morphine	1.186	101114	485.05	23.5	382.05	4273	239.6116 ng/ml
Norbuprenorphine	4.922	1483	117.69	90.0	73.55	2993	27.5468 ng/ml
Nordiazepam	5.881	695176	∞	57.3	5962.10	91632	251.3728 ng/ml
Norfentanyl	4.006	282102	497.25	37.3	492.24	565321	24.7555 ng/ml
Norhydrocodone	2.979	97707	129.48	44.8	396.31	35686	245.0497 ng/ml
Noroxycodone	2.803	796919	∞	48.2	391.08	104014	245.6652 ng/ml
O-desmethyl-tramadol	3.295	5887157	13684.09	6.0	1630.72	1282234	249.3774 ng/ml
Oxazepam	5.731	763174	12038.26	70.8	2260.90	196481	256.2910 ng/ml
Oxycodone	2.733	2008921	4522.27	32.0	10956.55	380602	254.7004 ng/ml
Oxymorphone	1.337	841910	825.72	49.5	∞	120625	254.4805 ng/ml
Phentermine	3.684	640802	2440.44	2.6	811.25	326343	257.8306 ng/ml
Promethazine	5.500	1637282	1966.22	30.3	2596.99	296888	242.5349 ng/ml
Quetiapine	5.537	766219	68335.14	60.0	3040.78	41043	248.7894 ng/ml
Sertraline	5.743	283474	2085.16	87.7	49445.06	48128	257.9694 ng/ml
Temazepam	5.805	2073928	39394.20	28.7	1666.21	430419	246.7762 ng/ml
Tramadol	4.172	5045024	37444.85	3.4	808.48	1101219	247.9570 ng/ml
Trazodone	5.167	1130854	∞	78.0	233244.15	194541	259.9095 ng/ml
Venlafaxine	4.966	1654599	1211.05	36.2	1690.08	355801	244.7913 ng/ml
Zolpidem	4.925	3863068	188479.14	30.0	71206.40	731550	251.6396 ng/ml



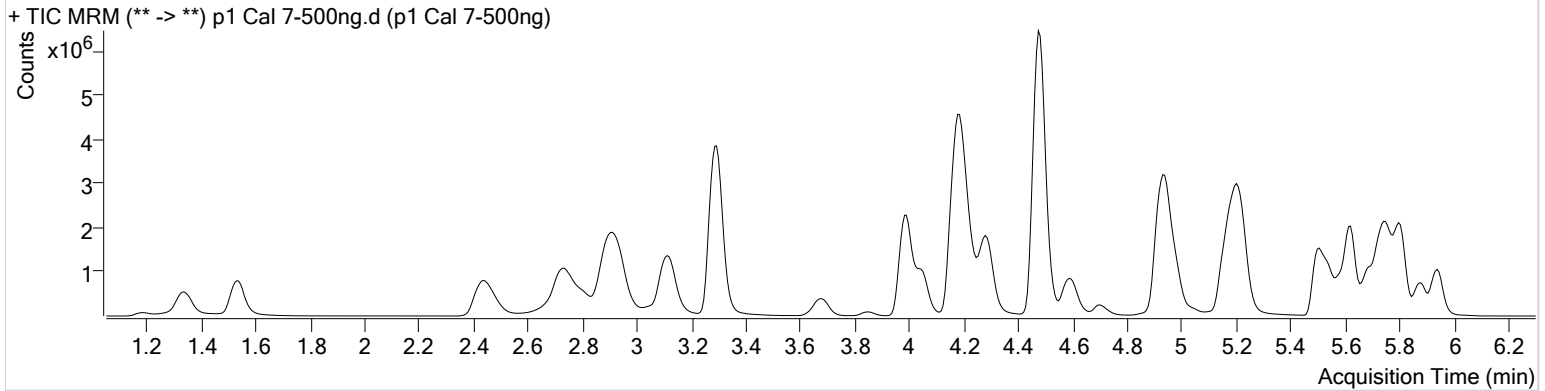
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 7-500ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 7-500ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-B12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 12:10:49 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	113610	6127.08	69.9	1138.00	51629	50.1398 ng/ml
7-aminoclonazepam	4.231	1241897	70983.38	80.8	26166.76	108037	508.8446 ng/ml
a-hydroxyalprazolam	5.680	321264	824.22	62.6	912.53	14515	504.7254 ng/ml
alpha-PVP	4.290	3063019	180156.52	50.8	65858.89	288703	487.7568 ng/ml
Alprazolam	5.763	1863551	3411.60	102.5	966.67	92114	513.3378 ng/ml
Amphetamine	2.900	5377732	64105.89	52.7	29693.80	156527	447.1418 ng/ml
Benzoylcegonine	3.847	202568	1443.73	7.8	2015.25	15555	507.6442 ng/ml
Buprenorphine	5.869	79894	742.45	15.5	445.37	66688	48.3703 ng/ml
Bupropion	4.705	456422	5657.02	59.0	1502.66	51192	507.2840 ng/ml
Carisoprodol	5.705	916383	23515.90	53.3	∞	93395	502.2255 ng/ml
Citalopram	5.147	945828	2611.48	41.0	3269.18	89388	494.2769 ng/ml
Clonazepam	5.593	656401	∞	33.9	154882.61	16436	497.0692 ng/ml
Cocaine	4.196	4688220	168315.61	45.6	89328.02	731318	496.0287 ng/ml
Codeine	2.462	584449	∞	104.6	471.90	55123	487.1013 ng/ml
Cyclobenzaprine	5.590	1229132	134473.79	9.3	6619.45	89588	510.7869 ng/ml
Dextromethorphan	5.197	602256	2751.78	78.6	5970.31	54924	498.0841 ng/ml
Dextrorphan	4.051	873934	10477.89	211.1	7655.86	226855	495.0310 ng/ml
Diazepam	5.941	1523836	7430.77	87.8	10940.09	143693	499.6283 ng/ml
Dihydrocodeine	2.434	1639503	∞	67.0	∞	195220	478.1057 ng/ml
Diphenhydramine	5.225	3195015	759.62	33.7	1076.68	474401	491.1119 ng/ml
Doxylamine	4.473	10441624	370680.74	97.5	185781.63	845668	506.9406 ng/ml
EDDP	5.196	2880001	2134.63	41.8	211156.42	304861	509.3415 ng/ml
Fentanyl	5.046	107495	1857.28	59.8	150154.72	120534	49.5747 ng/ml
Fluoxetine	5.675	1081096	34012.79	9.0	20374.69	92352	492.2286 ng/ml
Hydrocodone	2.937	1662808	∞	41.1	∞	231155	476.0674 ng/ml
Hydromorphone	1.533	1561588	1373.82	78.0	1627.95	118340	501.9052 ng/ml
Ketamine	3.986	4457321	2620.80	37.6	5923.12	453769	495.7874 ng/ml
Lamotrigine	4.207	223448	6382.55	79.9	20968.10	453769	363.2928 ng/ml
Lorazepam	5.721	762815	3383.38	56.5	132297.12	16436	326.1367 ng/ml
Meprobamate	4.861	105381	276411.00	25.4	2203.56	15872	502.5836 ng/ml
Methadone	5.621	3012101	44677.13	53.2	1249.60	287390	489.6826 ng/ml
Methamphetamine	3.114	3938949	3534.40	42.3	36420.39	364362	490.7138 ng/ml
Metoprolol	4.259	386414	8986.24	96.7	∞	1015993	477.1445 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	2031101	6619.97	48.5	42989.80	288703	519.4291 ng/ml
Mitragynine	5.193	268376	37343.25	41.0	206329.14	287390	428.1181 ng/ml
Morphine	1.186	204924	408.01	24.2	2096.47	4080	508.4123 ng/ml
Norbuprenorphine	4.929	2465	99.25	86.8	124.18	2678	51.3666 ng/ml
Nordiazepam	5.881	1206913	3924.99	57.4	50340.73	81626	490.1255 ng/ml
Norfentanyl	4.006	530508	13813.73	37.3	4432.37	527507	49.9136 ng/ml
Norhydrocodone	2.979	195436	∞	38.9	145.20	31531	554.2350 ng/ml
Noroxycodone	2.796	1416065	1554.55	49.6	599.27	93016	487.9055 ng/ml
O-desmethyl-tramadol	3.295	11640929	177051.48	5.8	6583.78	1244806	508.0572 ng/ml
Oxazepam	5.731	1054312	45134.27	73.3	∞	150829	461.6226 ng/ml
Oxycodone	2.727	4008928	8872.74	31.9	1552.84	391936	493.9483 ng/ml
Oxymorphone	1.337	1571421	∞	50.1	∞	122481	468.0593 ng/ml
Phentermine	3.684	1250791	∞	2.6	1456.24	337015	487.9091 ng/ml
Promethazine	5.500	3058085	2616.40	29.8	15309.47	272877	492.6064 ng/ml
Quetiapine	5.537	1654846	49595.65	61.1	2160.81	44606	494.1885 ng/ml
Sertraline	5.743	420469	5389.08	91.7	1595.80	37838	486.9056 ng/ml
Temazepam	5.805	3828005	1498.25	28.4	1210.63	388879	504.0283 ng/ml
Tramadol	4.172	9311696	∞	3.3	2411.62	1015993	496.7098 ng/ml
Trazodone	5.167	2178714	∞	79.8	10457.61	204129	478.5953 ng/ml
Venlafaxine	4.966	3049575	2497.42	35.7	3148.21	323087	496.2621 ng/ml
Zolpidem	4.932	7584422	∞	29.7	158705.05	734513	492.4678 ng/ml

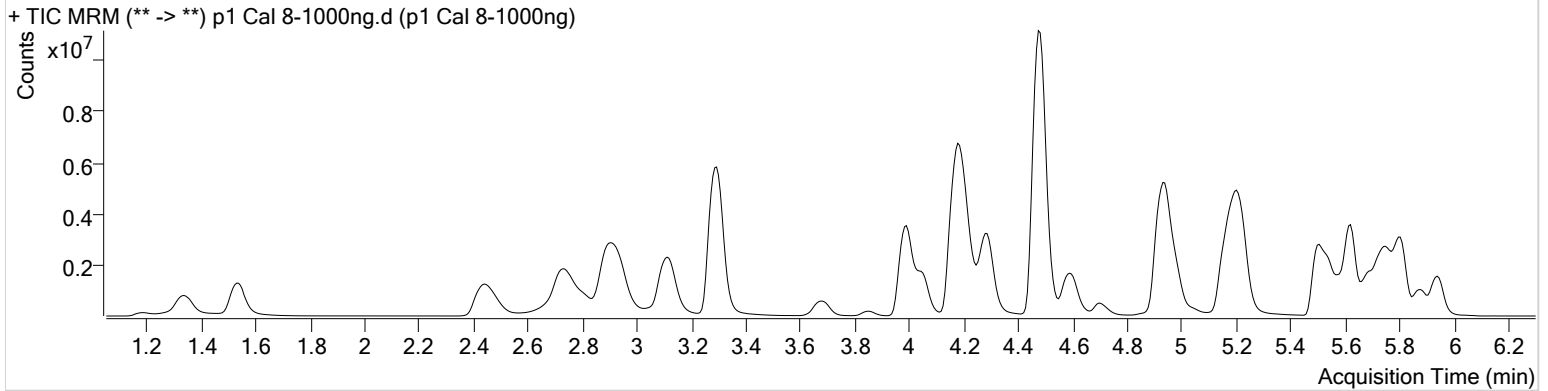
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\033120 AM 28 SP\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 4/1/2020 9:40:59 AM

<b>Instrument</b>	Falco	<b>Data File</b>	p1 Cal 8-1000ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 8-1000ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P1-A12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	3/31/2020 12:21:24 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.062	210582	18146.06	71.4	2522.56	49843	96.2855 ng/ml
7-aminoclonazepam	4.237	1644489	∞	81.5	∞	69978	1040.0548 ng/ml
a-hydroxyalprazolam	5.680	489600	3075.87	64.4	2900.47	11817	945.2517 ng/ml
alpha-PVP	4.290	5970755	28213.95	50.3	8444.63	267842	1024.2573 ng/ml
Alprazolam	5.763	2746628	∞	101.7	1882.11	70214	992.3554 ng/ml
Amphetamine	2.893	8301664	65609.22	52.3	36657.46	142166	760.6921 ng/ml
Benzoylcegonine	3.847	419586	23431.43	7.9	2751.75	15452	1058.7816 ng/ml
Buprenorphine	5.869	160834	8275.23	15.5	645.82	65101	99.7229 ng/ml
Bupropion	4.705	950976	7623.45	59.5	1603.10	54535	991.8637 ng/ml
Carisoprodol	5.705	1349221	59054.72	54.4	6632.63	69366	995.6718 ng/ml
Citalopram	5.147	1482053	2356.13	41.0	2898.29	69162	1001.3849 ng/ml
Clonazepam	5.593	908210	15779.02	34.4	25856.18	12223	925.0312 ng/ml
Cocaine	4.196	7671162	344908.08	44.9	222118.59	583719	1016.3162 ng/ml
Codeine	2.476	946898	∞	104.0	2928.58	42704	1018.7809 ng/ml
Cyclobenzaprine	5.590	2217935	4253.44	9.3	871.37	82085	1006.1356 ng/ml
Dextromethorphan	5.197	908655	5612.09	78.6	2762.30	40913	1008.7218 ng/ml
Dextrorphan	4.051	1532902	222494.58	211.1	37101.09	195745	1006.1425 ng/ml
Diazepam	5.941	2479036	5191.34	86.3	1420.51	115030	1015.8024 ng/ml
Dihydrocodeine	2.434	2770382	3580.26	66.9	6772.45	150168	1051.2163 ng/ml
Diphenhydramine	5.225	5409695	2070.61	33.8	1696.42	387496	1017.6273 ng/ml
Doxylamine	4.473	19378607	692331.80	97.5	394867.97	803388	990.5556 ng/ml
EDDP	5.196	5623165	109636.60	41.6	1450.75	293030	1034.6324 ng/ml
Fentanyl	5.046	217373	272013.42	59.1	393218.37	120976	99.8994 ng/ml
Fluoxetine	5.675	1963497	119633.62	8.7	1067.57	81583	1012.1651 ng/ml
Hydrocodone	2.937	2947503	∞	38.8	737.82	200210	974.9812 ng/ml
Hydromorphone	1.533	2711200	1272.56	78.3	1636.15	101719	1014.0688 ng/ml
Ketamine	3.986	7737106	29345.78	37.5	7064.81	410587	951.5196 ng/ml
Lamotrigine	4.214	274335	8406.47	80.6	3471.45	410587	493.3653 ng/ml
Lorazepam	5.721	870865	∞	56.8	99.29	12223	501.2501 ng/ml
Meprobamate	4.861	191102	1893.07	25.4	28266.13	15146	957.1663 ng/ml
Methadone	5.621	5791169	219363.21	51.9	8305.44	265702	1017.8697 ng/ml
Methamphetamine	3.114	6936352	90862.70	41.8	∞	348835	904.1587 ng/ml
Metoprolol	4.259	621445	10627.63	97.8	17414.88	864032	903.0014 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	4067534	123784.81	48.4	72320.69	267842	1121.8465 ng/ml
Mitragynine	5.193	435956	25868.10	39.9	411537.40	265702	753.0828 ng/ml
Morphine	1.186	369222	8434.24	24.3	7763.16	3805	982.2518 ng/ml
Norbuprenorphine	4.922	3719	78.88	96.9	136.94	2389	86.9719 ng/ml
Nordiazepam	5.881	1799904	∞	57.4	32558.23	61558	969.4539 ng/ml
Norfentanyl	4.006	828971	92569.86	37.4	2211.81	400750	102.6879 ng/ml
Norhydrocodone	2.979	325666	328.86	43.4	285.20	25653	1134.7361 ng/ml
Noroxycodone	2.803	2158165	1833.36	49.2	891.55	62438	1107.4567 ng/ml
O-desmethyl-tramadol	3.295	19771835	∞	5.8	3822.46	1038702	1034.2736 ng/ml
Oxazepam	5.724	1245903	9240.33	70.6	6232.01	92653	888.4825 ng/ml
Oxycodone	2.728	7346227	∞	31.7	14634.69	367081	966.8154 ng/ml
Oxymorphone	1.337	2594097	12626.61	50.0	∞	96101	985.1348 ng/ml
Phentermine	3.684	2087640	∞	2.5	1432.44	310819	883.5117 ng/ml
Promethazine	5.500	5917401	8494.47	29.0	851.76	255316	1018.4947 ng/ml
Quetiapine	5.537	3288228	3361.56	60.3	99723.87	42529	1029.7000 ng/ml
Sertraline	5.743	687068	9180.68	91.3	819.25	29955	1005.2584 ng/ml
Temazepam	5.805	6113038	3157.23	28.3	1300.67	294090	1064.1975 ng/ml
Tramadol	4.165	15434609	66485.23	3.2	18209.33	864032	968.7500 ng/ml
Trazodone	5.160	3912586	1140960.12	79.1	106211.71	217964	806.0341 ng/ml
Venlafaxine	4.973	5162411	3045.98	35.9	1420.46	267757	1013.0852 ng/ml
Zolpidem	4.925	13205468	766213.70	29.0	499.06	663798	949.1967 ng/ml