


**Worklist: 4021**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-0146	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0198	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0206	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0249	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0297	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0313	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0319	4	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0385	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0464	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0498	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0525	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0296	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0385	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0386	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0394	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0405	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0406	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0408	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0409	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0410	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0459	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

**Worklist: 4021**

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<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
P2020-0463	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ
P2020-0465	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ



**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

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

Extraction Date: 02/19/20  
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. 021920 AM 27 28 CS SP <sup>φ</sup> 2/24/20  
Worklist path: D:\MassHunter\Data\2020\AM 27-28\AM 27 28 CS SP Batch Name: MDO SP
- 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: 7-aminoclonazepam 5-250, amphetamine 5-250, dihydrocodeine 5-500, lamotrigine 5-250, lorazepam 10-1000, meprobamate 10-1000, metoprolol 10-500, norbuprenorphine 2.5-100, oxazepam 10-1000 (reported qualitatively)





# 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

### Methanol External Control Solution (Lot: 031319)

*100 ul of 1mg/mL stock was added to each drug to 9700 ul of LC MeOH.*

*\*Made for the AM 28 urine validation*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	184782	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/13/19		
Prepared By:	Tamara Salazar		
Expires:	03/13/2020		

### Blood External Control Solution (Lot: WS010820)

*100 ul of methanol external control solution was added to 9900 ul of blood.*

*Approximately 100ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031319
Prepared:	01/08/2020	
Prepared by:	Tamara Salazar	
Expires:	03/13/2020	

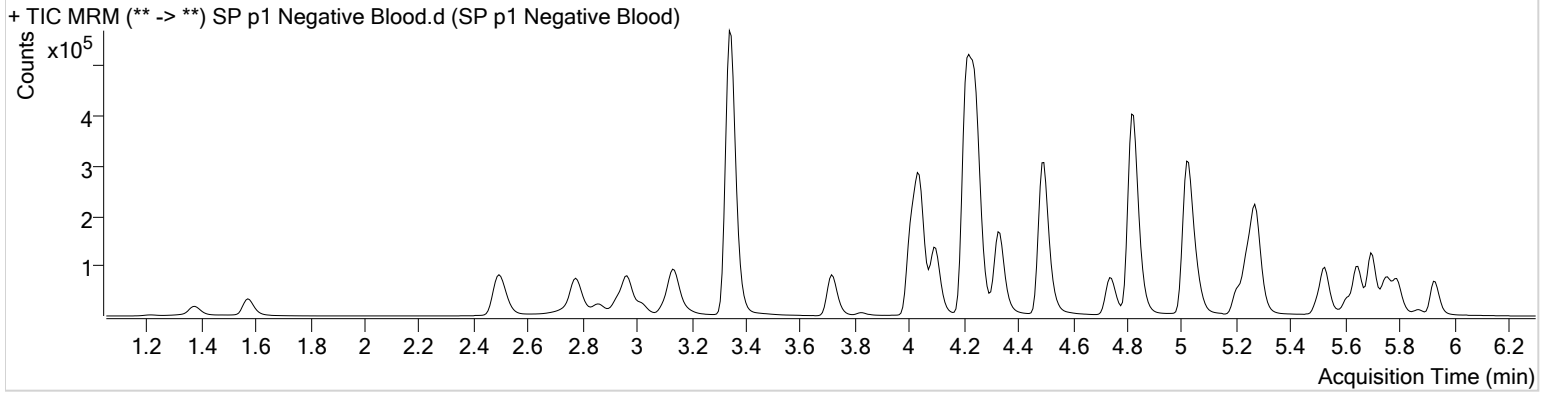
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	SP p1 Negative Blood
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-D11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 6:29:58 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



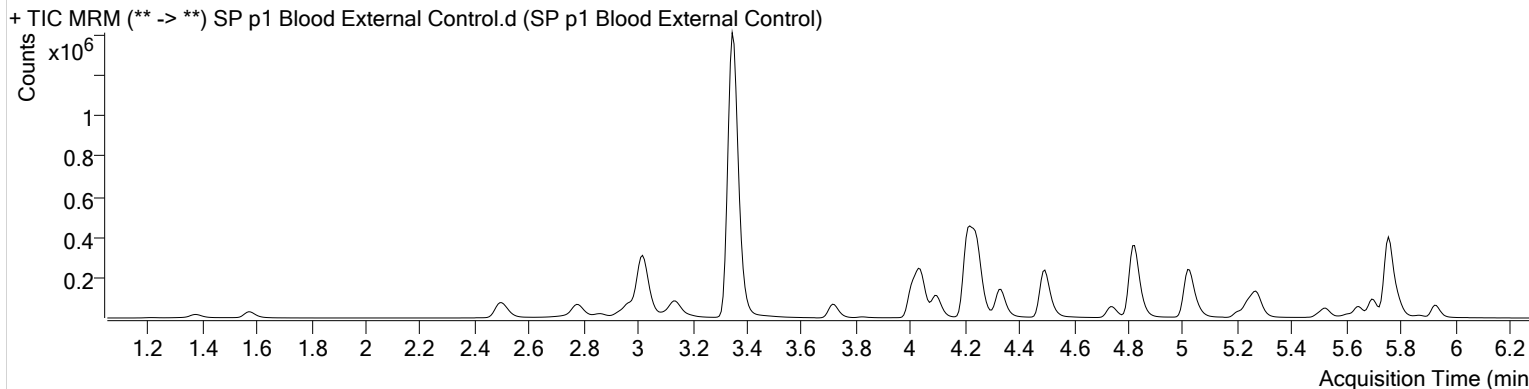
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Blood External Control.d
<b>Type</b>	Sample	<b>Sample</b>	SP p1 Blood External Control
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-C11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 6:40:35 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	417421	∞	102.5	1560.26	115426	94.0418 ng/ml
Amphetamine	3.021	596870	4564.01	52.9	10751.63	79338	107.9138 ng/ml
O-desmethyl-tramadol	3.354	2409571	73120.23	6.0	4050.75	1294088	101.5880 ng/ml

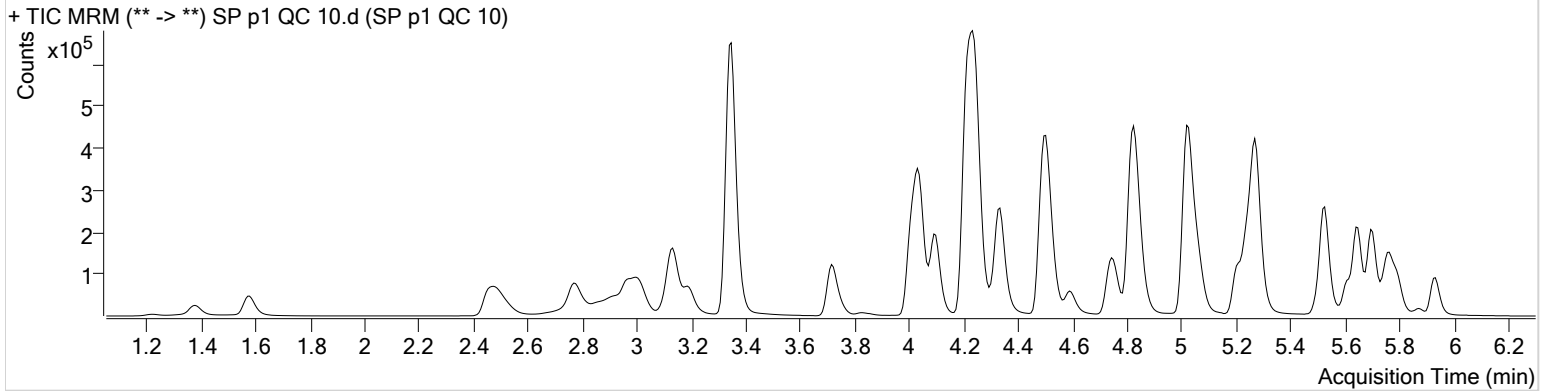
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 QC 10.d
<b>Type</b>	QC	<b>Sample</b>	SP p1 QC 10
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-H11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 4:43:54 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	2159	510.62	70.2	567.22	47789	0.9923 ng/ml
7-aminoclonazepam	4.231	27985	1456.64	80.0	∞	112756	10.3152 ng/ml
a-hydroxyalprazolam	5.680	3766	68.52	56.5	56.14	8303	10.1176 ng/ml
alpha-PVP	4.344	108400	8775.52	51.2	1616.11	499519	9.8365 ng/ml
Alprazolam	5.756	51021	719.88	99.5	892.46	134405	10.1023 ng/ml
Amphetamine	3.007	119026	2190.45	54.1	648.37	145776	10.4855 ng/ml
Benzoylcegonine	3.853	4155	371.10	7.8	31.77	14598	9.9070 ng/ml
Buprenorphine	5.686	1712	32.87	17.7	19.34	66227	1.0103 ng/ml
Bupropion	4.759	82801	446.42	57.6	1752.51	300475	9.9323 ng/ml
Carisoprodol	5.705	31782	517.07	57.9	188.36	156552	8.2105 ng/ml
Citalopram	5.209	50918	1409.06	39.2	5935.69	220898	10.4436 ng/ml
Clonazepam	5.593	7292	46.69	31.2	∞	8571	10.1633 ng/ml
Cocaine	4.243	117715	15101.57	43.3	2703.96	922820	10.1751 ng/ml
Codeine	2.536	14579	169.00	100.7	499.99	62835	9.8411 ng/ml
Cyclobenzaprine	5.610	38165	4889.46	10.0	276.15	134724	10.6450 ng/ml
Dextromethorphan	5.252	26976	2296.00	78.4	293.69	119851	10.2032 ng/ml
Dextrorphan	4.100	29637	1140.09	209.4	748.14	371128	10.1706 ng/ml
Diazepam	5.934	32484	∞	86.6	1263.61	150084	10.3039 ng/ml
Dihydrocodeine	2.488	39387	1908.13	67.2	209.92	219404	10.1712 ng/ml
Diphenhydramine	5.279	108292	289.42	34.4	846.75	770002	9.2224 ng/ml
Doxylamine	4.514	228274	2688.46	97.5	4078.34	974069	9.5261 ng/ml
EDDP	5.244	50848	1744.14	40.7	332.76	263240	9.8893 ng/ml
Fentanyl	5.072	3755	779.70	74.3	2968.59	182726	1.0367 ng/ml
Fluoxetine	5.702	49412	3715.10	8.6	∞	187546	9.3866 ng/ml
Hydrocodone	2.991	30739	180.03	41.5	129.13	198175	10.1998 ng/ml
Hydromorphone	1.587	26740	735.72	79.4	732.56	103699	9.7700 ng/ml
Ketamine	4.026	105233	1193.12	37.0	699.44	488287	9.9623 ng/ml
Lamotrigine	4.254	10973	848.47	78.1	∞	488287	10.9704 ng/ml
Lorazepam	5.728	2252	70.21	48.4	9.52 Low	8571	11.8571 ng/ml
Meprobamate	4.875	7546	74.08	27.2	79.98	37561	8.6121 ng/ml
Methadone	5.648	66204	483.54	55.0	1582.42	308093	10.2503 ng/ml
Methamphetamine	3.195	116075	2779.02	42.2	402.20	397279	10.4366 ng/ml
Metoprolol	4.306	24026	1482.77	96.3	∞	1213946	6.4036 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	91178	1291.89	49.1	1913.36	499519	7.1163 ng/ml
Mitragynine	5.200	13108	58686.17	39.9	1136.35	308093	9.8898 ng/ml
Morphine	1.226	5255	821.50	23.7	485.57	5113	9.7772 ng/ml
Nordiazepam	5.881	6518	848.87	56.2	361.35	20264	10.0284 ng/ml
Norfentanyl	4.061	14841	815.09	36.3	149.89	637122	0.9637 ng/ml
Norhydrocodone	3.039	4837	1603.34	44.3	124.10	48612	8.8684 ng/ml
Noroxycodone	2.883	22802	500.00	49.2	184.79	71191	9.9447 ng/ml
O-desmethyl-tramadol	3.348	276608	7670.73	5.9	1992.94	1479973	10.0370 ng/ml
Oxazepam	5.738	2368	68.17	58.7	7.20	13220	11.3182 ng/ml
Oxycodone	2.800	57757	890.30	32.1	904.58	267528	10.3804 ng/ml
Oxymorphone	1.383	17593	232.40	49.2	158.85	66285	9.8258 ng/ml
Phentermine	3.751	29138	1128.95	2.5	33.91	335928	10.3592 ng/ml
Promethazine	5.527	83029	540.40	29.8	441.49	359362	10.6298 ng/ml
Quetiapine	5.517	82860	1317.07	61.5	1448.38	108166	10.9056 ng/ml
Sertraline	5.770	25335	250.65	90.2	345.21	104745	10.0281 ng/ml
Temazepam	5.798	24561	286.75	29.5	29.32	120770	10.4773 ng/ml
Tramadol	4.226	244548	1078.64	3.4	138.24	1213946	10.5904 ng/ml
Trazodone	5.065	63846	11210.98	78.5	2817.55	250338	10.0404 ng/ml
Venlafaxine	5.027	148980	1240.97	37.1	1733.11	790621	9.9949 ng/ml
Zolpidem	4.837	231705	1577.78	31.0	1114.42	1075800	10.3434 ng/ml

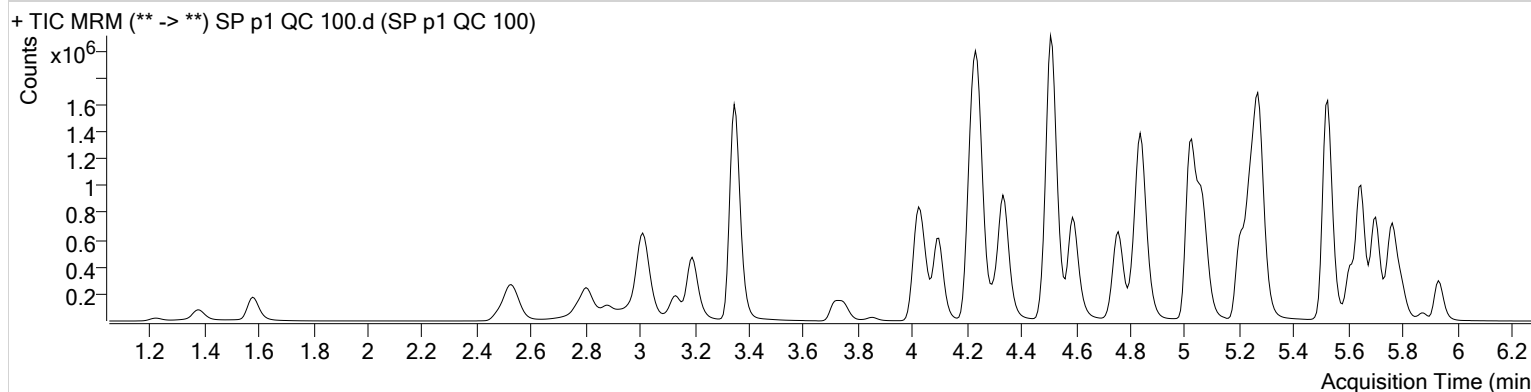
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 QC 100.d
<b>Type</b>	QC	<b>Sample</b>	SP p1 QC 100
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-G11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 5:05:07 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	21779	6029.40	69.3	3100.75	49627	10.1248 ng/ml
7-aminoclonazepam	4.231	218141	11836.31	80.2	578.22	101739	96.4198 ng/ml
a-hydroxyalprazolam	5.680	35847	1710.73	62.1	1005.89	8210	97.0419 ng/ml
alpha-PVP	4.344	1176096	72705.40	50.7	200378.99	545545	95.8744 ng/ml
Alprazolam	5.756	459452	4802.21	103.0	1820.13	119440	100.0156 ng/ml
Amphetamine	3.014	1072372	6331.02	54.1	16838.31	153719	99.9686 ng/ml
Benzoylcegonine	3.853	40906	3188.81	7.8	607.26	13928	103.2817 ng/ml
Buprenorphine	5.692	25634	676.72	16.0	∞	105284	11.1082 ng/ml
Bupropion	4.759	1000973	36929.39	58.4	17724.78	367089	101.8278 ng/ml
Carisoprodol	5.705	284339	1108.11	54.2	380.92	138807	105.7533 ng/ml
Citalopram	5.209	745120	1676.25	41.2	12174.73	347169	97.0878 ng/ml
Clonazepam	5.593	71653	593.51	32.7	254.53	8696	106.3821 ng/ml
Cocaine	4.243	1183865	4684414.72	43.5	67457.19	947798	94.4317 ng/ml
Codeine	2.550	139537	1960.96	99.3	8261.65	60377	106.3372 ng/ml
Cyclobenzaprine	5.610	578596	676.78	10.0	654.75	226083	96.7560 ng/ml
Dextromethorphan	5.252	423106	9498.78	79.4	1293.78	197124	99.2818 ng/ml
Dextrophan	4.100	346378	10122.24	211.2	84232.79	440756	100.7112 ng/ml
Diazepam	5.934	298823	4064.08	88.0	3256.95	142442	102.0257 ng/ml
Dihydrocodeine	2.521	380599	4147.75	67.5	1411.06	227671	103.7923 ng/ml
Diphenhydramine	5.279	1658778	46516.43	33.8	1805.80	1199944	95.2738 ng/ml
Doxylamine	4.508	2664097	16077.96	96.7	13565.81	1182110	103.4962 ng/ml
EDDP	5.244	832399	15800.83	41.9	3451.21	453404	98.3873 ng/ml
Fentanyl	5.072	59227	3925.69	73.0	8154.35	314642	9.8725 ng/ml
Fluoxetine	5.702	720048	5625.61	8.9	∞	303244	100.5106 ng/ml
Hydrocodone	2.998	326466	917.79	42.1	∞	227012	100.2109 ng/ml
Hydromorphone	1.581	256572	850.81	78.7	1461.60	102808	98.1095 ng/ml
Ketamine	4.026	1056914	6741.33	37.3	872.94	504098	103.3343 ng/ml
Lamotrigine	4.254	94102	4819.65	79.0	3544.01	504098	102.8970 ng/ml
Lorazepam	5.728	22390	759.35	53.8	129.30	8696	93.4047 ng/ml
Meprobamate	4.875	75423	4004.12	26.5	1290.32	35902	91.2649 ng/ml
Methadone	5.648	1049016	1523.24	54.9	2546.14	522610	95.6651 ng/ml
Methamphetamine	3.195	964716	3261.60	42.0	1856.75	403940	108.8379 ng/ml
Metoprolol	4.306	238465	28491.00	94.6	∞	1288695	109.1777 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	1321319	19159.31	49.7	55385.35	545545	96.7694 ng/ml
Mitragynine	5.200	217106	571914.87	39.3	8138.71	522610	104.4413 ng/ml
Morphine	1.226	48819	3486.43	23.9	642.50	4804	102.5203 ng/ml
Norbuprenorphine	4.976	1149	319.41	86.6	3177.61	5466	10.4547 ng/ml
Nordiazepam	5.881	61447	933.87	56.7	604.78	19392	102.1507 ng/ml
Norfentanyl	4.061	160977	37877.19	37.5	3741.86	686903	9.2844 ng/ml
Norhydrocodone	3.039	64334	3365.86	41.9	419.86	59338	92.9664 ng/ml
Noroxycodone	2.883	214730	2499.94	49.5	979.47	70163	101.5541 ng/ml
O-desmethyl-tramadol	3.348	2726629	135623.66	6.0	2122.46	1465974	101.4765 ng/ml
Oxazepam	5.738	20851	300.45	68.2	134.14	12958	101.0533 ng/ml
Oxycodone	2.807	604300	4215.93	32.2	22446.27	285340	103.8848 ng/ml
Oxymorphone	1.376	162030	679.08	48.5	885.22	62495	100.0993 ng/ml
Phentermine	3.751	277964	5932.53	2.7	301.32	369302	103.0705 ng/ml
Promethazine	5.527	1334532	5398.13	29.7	2327.98	611383	96.3616 ng/ml
Quetiapine	5.517	1137597	14351.36	58.8	∞	158450	109.0106 ng/ml
Sertraline	5.770	335897	2379.56	87.7	75618.37	145811	99.5572 ng/ml
Temazepam	5.798	229892	2128.10	30.3	612.16	120830	98.8747 ng/ml
Tramadol	4.226	2386656	3720.44	3.3	1770.98	1288695	105.7954 ng/ml
Trazodone	5.065	975887	∞	80.1	3747.15	399310	93.2238 ng/ml
Venlafaxine	5.027	1719573	29643.43	36.8	∞	925292	96.6115 ng/ml
Zolpidem	4.837	2370157	33744.55	30.6	1265.83	1156633	103.3759 ng/ml

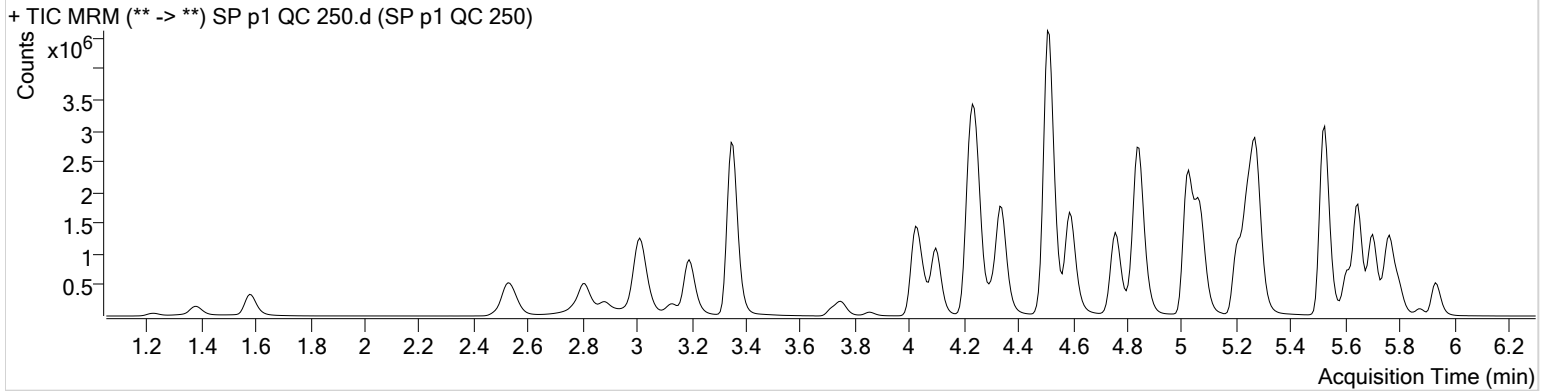
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 QC 250.d
<b>Type</b>	QC	<b>Sample</b>	SP p1 QC 250
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-F11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 5:26:19 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	50238	14155.99	71.6	3293.28	45400	25.6135 ng/ml
7-aminoclonazepam	4.231	379321	13328.95	80.4	∞	79713	215.1541 ng/ml
a-hydroxyalprazolam	5.680	83128	833.65	63.0	785.01	7460	247.5857 ng/ml
alpha-PVP	4.344	2655890	126050.58	50.7	5195.05	480062	245.7153 ng/ml
Alprazolam	5.756	966270	1137.85	101.6	3078.95	102003	245.9232 ng/ml
Amphetamine	3.014	2089222	14336.46	54.1	30403.57	134098	224.9562 ng/ml
Benzoylcegonine	3.853	102247	2002.83	7.8	2043.10	13851	259.7734 ng/ml
Buprenorphine	5.686	50017	552.80	16.3	520.21	88903	25.9159 ng/ml
Bupropion	4.759	2237475	5191.25	58.4	5270.24	325777	257.0858 ng/ml
Carisoprodol	5.705	575174	1013.16	55.1	365.89	114793	262.3177 ng/ml
Citalopram	5.209	1576036	2465.90	40.5	1095.30	286004	249.2426 ng/ml
Clonazepam	5.593	163707	9855.60	34.4	858.15	8497	249.9654 ng/ml
Cocaine	4.243	2516510	90229.47	43.9	108335.99	793840	238.7507 ng/ml
Codeine	2.550	287358	3605.76	99.3	17006.02	51770	256.6956 ng/ml
Cyclobenzaprine	5.610	1230220	1686.23	10.1	16062.34	186638	249.3185 ng/ml
Dextromethorphan	5.252	873014	2894.67	79.6	1022.90	159998	252.7449 ng/ml
Dextrorphan	4.100	763201	20651.58	209.8	3723.72	378300	258.6500 ng/ml
Diazepam	5.934	628240	2389.49	87.2	9208.45	120846	253.1955 ng/ml
Dihydrocodeine	2.528	820130	6662.71	68.1	3826.87	211639	242.0367 ng/ml
Diphenhydramine	5.279	3536460	1539.68	33.6	1433.85	990440	246.9149 ng/ml
Doxylamine	4.508	6328653	27631.92	95.9	56332.47	1090209	268.7576 ng/ml
EDDP	5.244	1918353	1585.67	42.0	697.42	406348	253.8140 ng/ml
Fentanyl	5.072	127966	545.66	76.0	∞	263371	25.5561 ng/ml
Fluoxetine	5.702	1465775	4113.81	8.9	33447.92	242773	258.6334 ng/ml
Hydrocodone	2.998	769442	∞	41.5	∞	208032	258.8066 ng/ml
Hydromorphone	1.581	585106	4120.66	78.2	2447.47	93405	246.8782 ng/ml
Ketamine	4.026	2367920	176047.23	37.7	12427.06	458702	255.4974 ng/ml
Lamotrigine	4.261	175352	23590.03	79.5	6536.27	458702	212.4030 ng/ml
Lorazepam	5.728	54201	368.84	57.0	223.69	8497	227.5762 ng/ml
Meprobamate	4.875	167004	32813.79	26.8	406.38	30483	238.2079 ng/ml
Methadone	5.648	2281144	3852.86	55.2	31257.92	447956	242.6821 ng/ml
Methamphetamine	3.195	1929550	198578.93	42.0	6893.82	345644	258.7912 ng/ml
Metoprolol	4.306	489243	13676.49	97.0	∞	1117835	266.2919 ng/ml



# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	2931211	∞	49.5	55924.06	480062	244.2463 ng/ml
Mitragynine	5.200	470053	134585.77	38.6	102616.91	447956	265.1806 ng/ml
Morphine	1.226	109273	988.88	23.9	425.29	4394	251.8471 ng/ml
Norbuprenorphine	4.976	2682	1429.53	80.3	1466.20	5233	26.1195 ng/ml
Nordiazepam	5.881	136110	2352.61	57.3	103853.34	18200	241.6118 ng/ml
Norfentanyl	4.068	372406	98629.93	37.3	4634.65	595697	24.6915 ng/ml
Norhydrocodone	3.039	148251	∞	41.9	553.15	50649	250.3579 ng/ml
Noroxycodone	2.883	471628	4102.66	49.3	763.18	61330	256.3319 ng/ml
O-desmethyl-tramadol	3.354	6144752	4176.72	5.9	40694.87	1303777	257.4114 ng/ml
Oxazepam	5.738	51151	318.43	69.6	220.38	13336	240.7651 ng/ml
Oxycodone	2.807	1441954	4554.79	32.2	4973.29	269851	262.4688 ng/ml
Oxymorphone	1.383	360713	445.35	49.9	∞	55140	253.2846 ng/ml
Phentermine	3.751	589474	20986.98	2.5	1328.77	323685	251.8213 ng/ml
Promethazine	5.527	2870667	2027.20	29.3	1757.00	509073	248.1759 ng/ml
Quetiapine	5.517	2360915	4246.73	60.2	105671.38	143059	251.6294 ng/ml
Sertraline	5.770	632734	2323.78	89.4	9467.26	109876	249.5845 ng/ml
Temazepam	5.798	540599	4111.49	29.6	551.75	108894	258.1583 ng/ml
Tramadol	4.226	5220366	298073.79	3.3	2559.93	1117835	268.3446 ng/ml
Trazodone	5.065	2144324	6765.19	79.4	2785.66	336455	242.5490 ng/ml
Venlafaxine	5.027	3913548	125064.00	35.8	19378.40	824106	246.5292 ng/ml
Zolpidem	4.844	5434149	140469.38	29.9	72759.72	1060923	259.2701 ng/ml

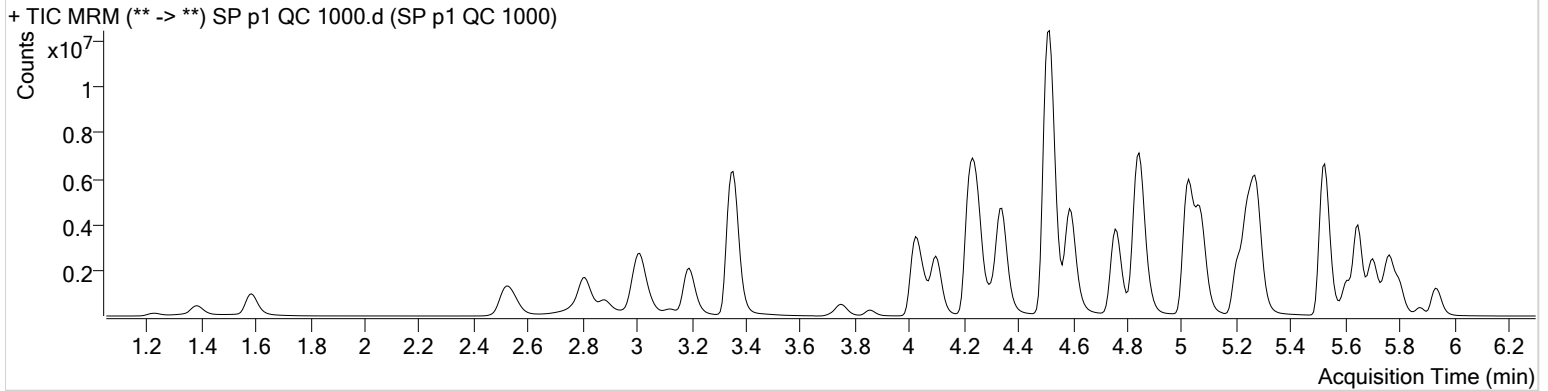
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 QC 1000.d
<b>Type</b>	QC	<b>Sample</b>	SP p1 QC 1000
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-E11	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 5:47:32 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	175207	14582.82	71.1	17053.70	39029	104.0802 ng/ml
* 7-aminoclonazepam	<del>4.231</del>	<del>547916</del>	<del>21140.08</del>	<del>81.3</del>	<del>38518.49</del>	<del>45549</del>	<del>545.3538 ng/ml</del>
a-hydroxyalprazolam	5.680	332473	957.65	62.3	7752.22	7445	992.1679 ng/ml
alpha-PVP	4.344	8211402	406350.65	50.4	7295.48	365532	997.0940 ng/ml
Alprazolam	5.756	2543405	4143.51	102.0	2499.27	64398	1024.4940 ng/ml
* Amphetamine	<del>3.014</del>	<del>4439920</del>	<del>45664.29</del>	<del>52.9</del>	<del>36830.01</del>	<del>104301</del>	<del>617.0250 ng/ml</del>
Benzoylcegonine	3.853	460252	4422.56	7.8	1988.46	13587	1192.4774 ng/ml
Buprenorphine	5.686	78186	3162.20	16.1	1006.76	43898	82.4533 ng/ml
Bupropion	4.759	6831344	5487.70	57.5	3421.24	254462	1006.0615 ng/ml
Carisoprodol	5.712	1521659	1452.90	54.4	1637.43	76609	1047.3512 ng/ml
Citalopram	5.209	3625362	1994.70	40.2	709058.00	165427	991.1707 ng/ml
Clonazepam	5.593	564433	195058.15	34.4	∞	8250	889.9784 ng/ml
Cocaine	4.243	6633250	354291.05	42.4	283642.12	510488	976.7984 ng/ml
Codeine	2.550	798774	24360.38	99.3	1546.75	38780	955.0759 ng/ml
Cyclobenzaprine	5.610	2666900	27332.74	9.8	77690.03	102101	988.1931 ng/ml
Dextromethorphan	5.252	1738958	30350.71	79.0	23860.75	79656	1011.9152 ng/ml
Dextrorphan	4.100	2119252	4776.06	212.1	63561.14	262323	1035.9621 ng/ml
Diazepam	5.934	1682976	10605.21	86.4	7278.51	83169	986.2639 ng/ml
* Dihydrocodeine	<del>2.521</del>	<del>2410118</del>	<del>108149.53</del>	<del>68.1</del>	∞	<del>198662</del>	<del>760.0615 ng/ml</del>
Diphenhydramine	5.279	8330148	193457.06	33.1	54248.24	563638	1023.6631 ng/ml
Doxylamine	4.514	19749763	560261.49	96.5	636256.98	982905	933.6673 ng/ml
EDDP	5.244	6573415	1838.24	40.6	78278.20	343177	1031.3919 ng/ml
Fentanyl	5.072	282090	∞	76.6	1032262.13	134437	110.5200 ng/ml
Fluoxetine	5.702	2521051	250411.99	8.9	∞	108150	1004.2360 ng/ml
Hydrocodone	2.991	2602616	850.81	41.3	∞	190528	957.6670 ng/ml
Hydromorphone	1.587	1827448	∞	79.0	∞	74457	968.4928 ng/ml
Ketamine	4.026	7136096	211525.74	36.9	48036.52	384161	921.2949 ng/ml
* Lamotrigine	<del>4.268</del>	<del>306804</del>	∞	<del>78.5</del>	∞	<del>384161</del>	<del>445.4937 ng/ml</del>
Lorazepam	5.728	262682	11484.18	57.8	2841.12	8250	1125.6402 ng/ml
Meprobamate	4.881	526479	18535.79	27.1	22374.68	19304	1186.3332 ng/ml
Methadone	5.648	5700733	154010.30	53.6	3916.66	271278	1001.4359 ng/ml
Methamphetamine	3.195	4735697	78867.63	41.6	∞	252577	876.9198 ng/ml
* Metoprolol	<del>4.306</del>	<del>1198624</del>	<del>1116333.85</del>	<del>96.4</del>	∞	<del>872115</del>	<del>848.8585 ng/ml</del>

SP p1 QC 1000

\*outside curve range

Generated at 10:29 AM on 2/21/2020

# AM #28 Multi-Drug Quant. Results

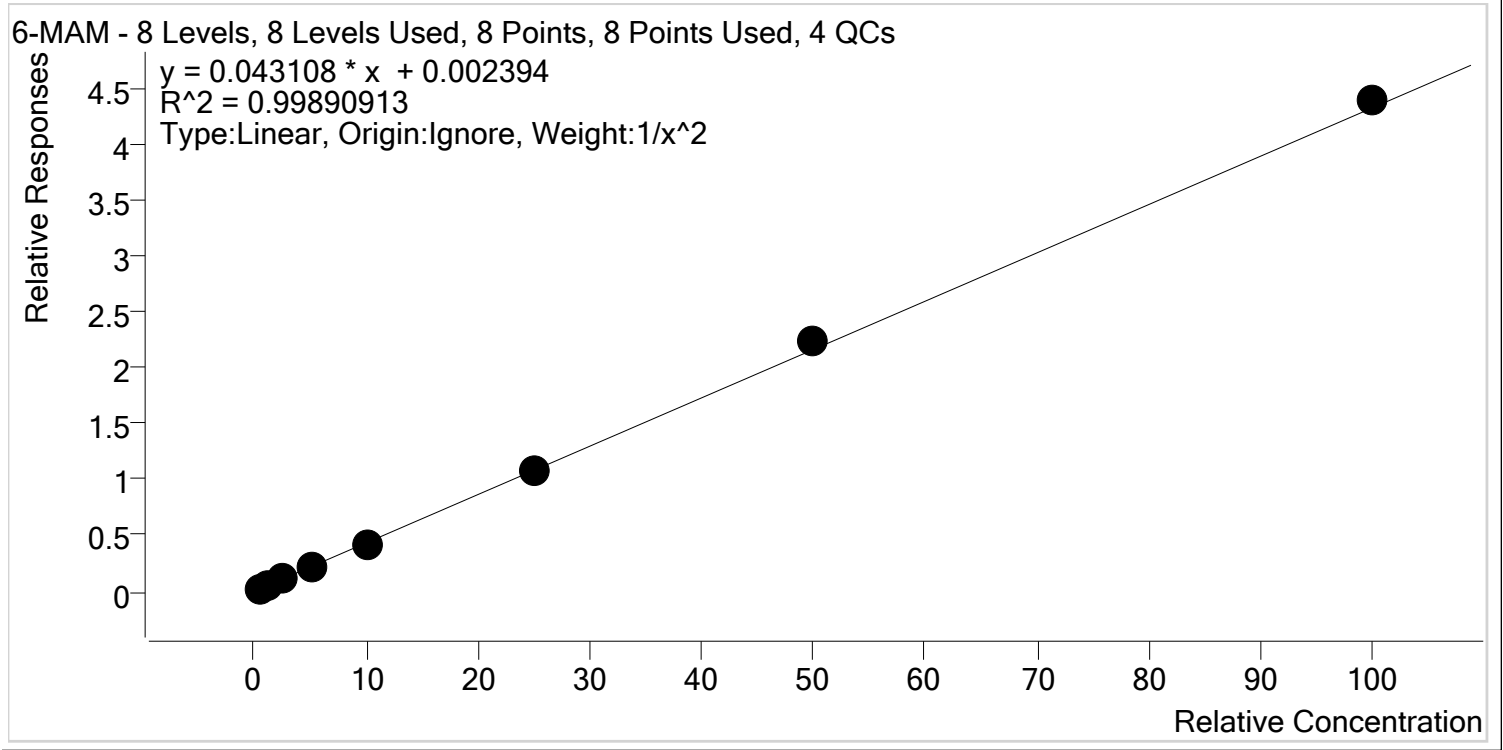


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	8429226	342186.15	49.0	485198.80	365532	922.9755 ng/ml
Mitragynine	5.200	1028656	210641.73	40.0	38074.92	271278	960.6155 ng/ml
Morphine	1.233	323773	11290.85	25.5	3590.41	3502	938.2063 ng/ml
Norbuprenorphine	4.976	6798	238.45	85.1	1472.23	3589	97.6772 ng/ml
Nordiazepam	5.881	471446	2227.48	57.0	913.47	14952	1019.8731 ng/ml
Norfentanyl	4.068	1236524	131190.90	37.4	18243.56	423756	115.0841 ng/ml
Norhydrocodone	3.039	468165	∞	42.0	644.58	34373	1163.6339 ng/ml
Noroxycodone	2.883	1383825	1700.87	49.2	1849.80	48638	950.4402 ng/ml
O-desmethyl-tramadol	3.354	18035590	625578.01	5.9	5879.77	961536	1024.9825 ng/ml
Oxazepam	5.731	266118	729.54	68.7	567.45	16422	1016.9747 ng/ml
Oxycodone	2.807	5284249	∞	32.1	6853.56	258676	1004.0660 ng/ml
Oxymorphone	1.383	1216864	2677.65	48.8	7952.06	49612	950.9410 ng/ml
Phentermine	3.751	1497037	33054.98	2.5	2882.01	256539	810.7048 ng/ml
Promethazine	5.527	6278481	147432.19	29.1	4487.30	270325	1020.6742 ng/ml
Quetiapine	5.517	6320492	197071.76	59.9	17974.03	107771	896.2996 ng/ml
Sertraline	5.770	957232	903.00	89.5	2515.78	40560	1024.3378 ng/ml
Temazepam	5.805	1969931	8945.93	28.8	4473.14	93873	1091.5862 ng/ml
Tramadol	4.219	13711100	6917.27	3.3	11049.84	872115	905.8114 ng/ml
Trazodone	5.065	5833449	903299.28	79.4	238720.66	185421	1195.9273 ng/ml
Venlafaxine	5.027	12337123	254088.16	35.2	75447.62	633349	1010.5467 ng/ml
Zolpidem	4.844	16352793	3473.18	29.8	2280.36	924874	896.4117 ng/ml



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6

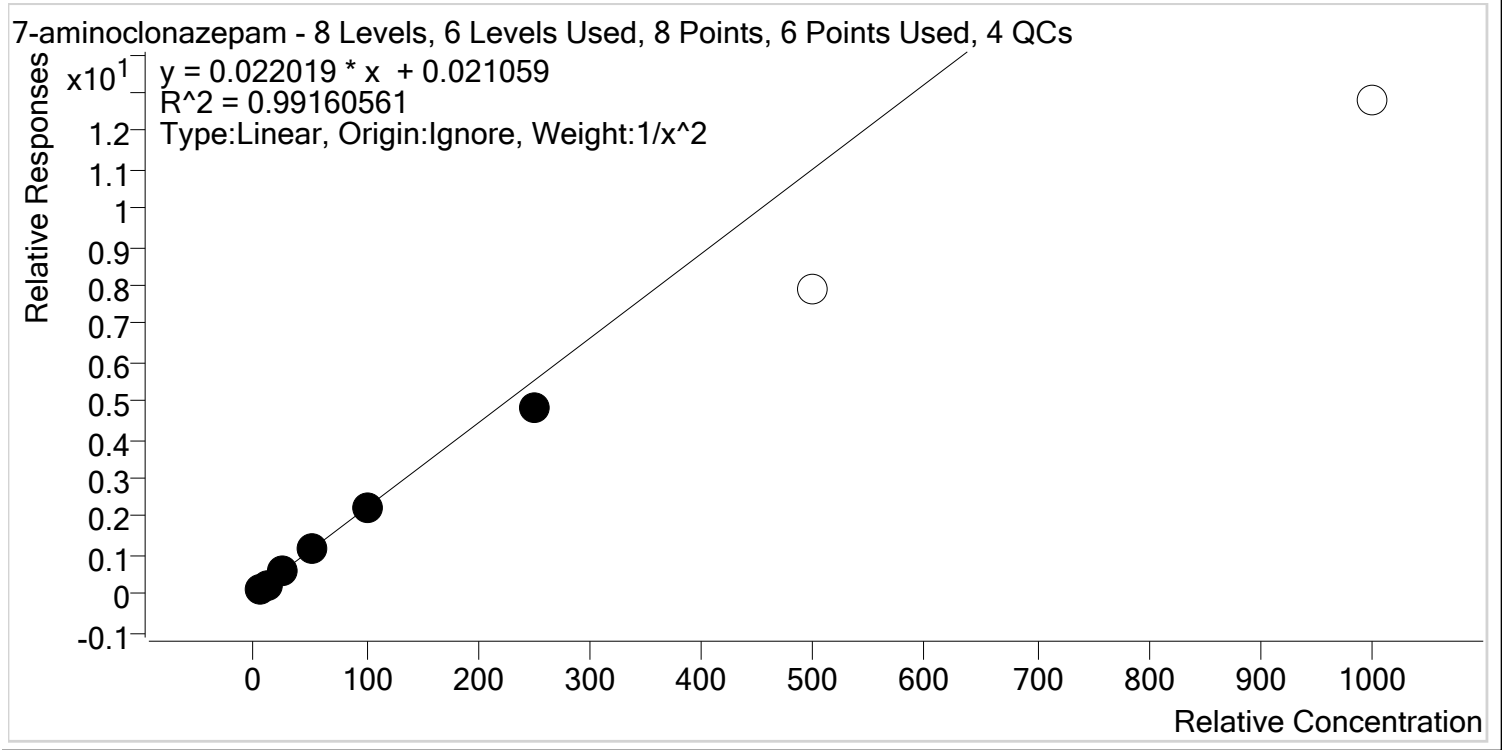


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	0.5	0.5	102.8
SP p1 Cal 2- 10ng	2	✓	1.0	0.9	94.8
SP p1 Cal 3 -25ng	3	✓	2.5	2.5	99.5
SP p1 Cal 4-50ng	4	✓	5.0	5.0	100.3
SP p1 Cal 5-100ng	5	✓	10.0	9.7	97.0
SP p1 Cal 6-250ng	6	✓	25.0	25.2	101.0
SP p1 Cal 7-500ng	7	✓	50.0	51.6	103.2
SP p1 Cal 8-1000ng	8	✓	100.0	101.5	101.5



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

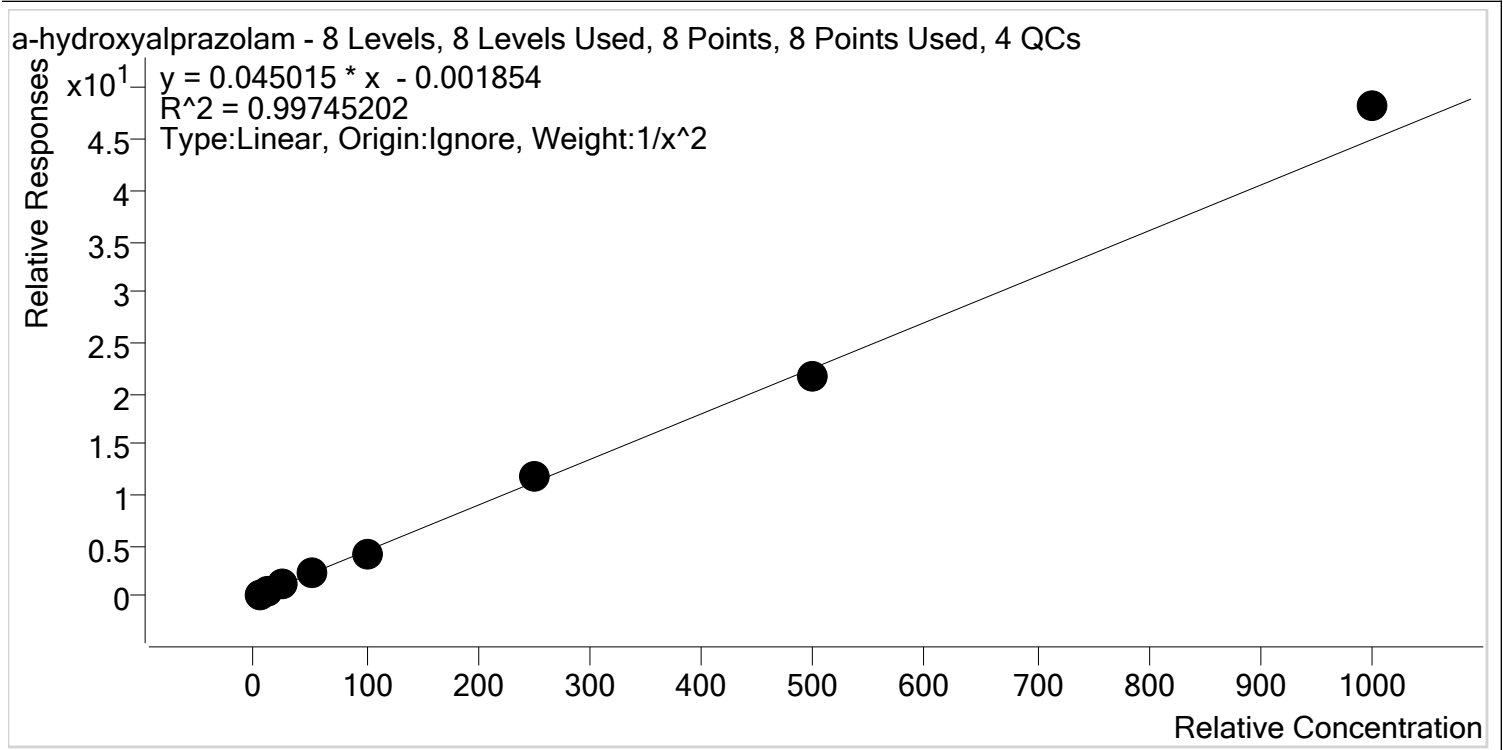


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.8	95.7
SP p1 Cal 2- 10ng	2	✓	10.0	10.6	105.8
SP p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
SP p1 Cal 4-50ng	4	✓	50.0	53.6	107.1
SP p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
SP p1 Cal 6-250ng	6	✓	250.0	219.3	87.7
SP p1 Cal 7-500ng	7	✗	500.0	357.3	71.5
SP p1 Cal 8-1000ng	8	✗	1000.0	580.3	58.0



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

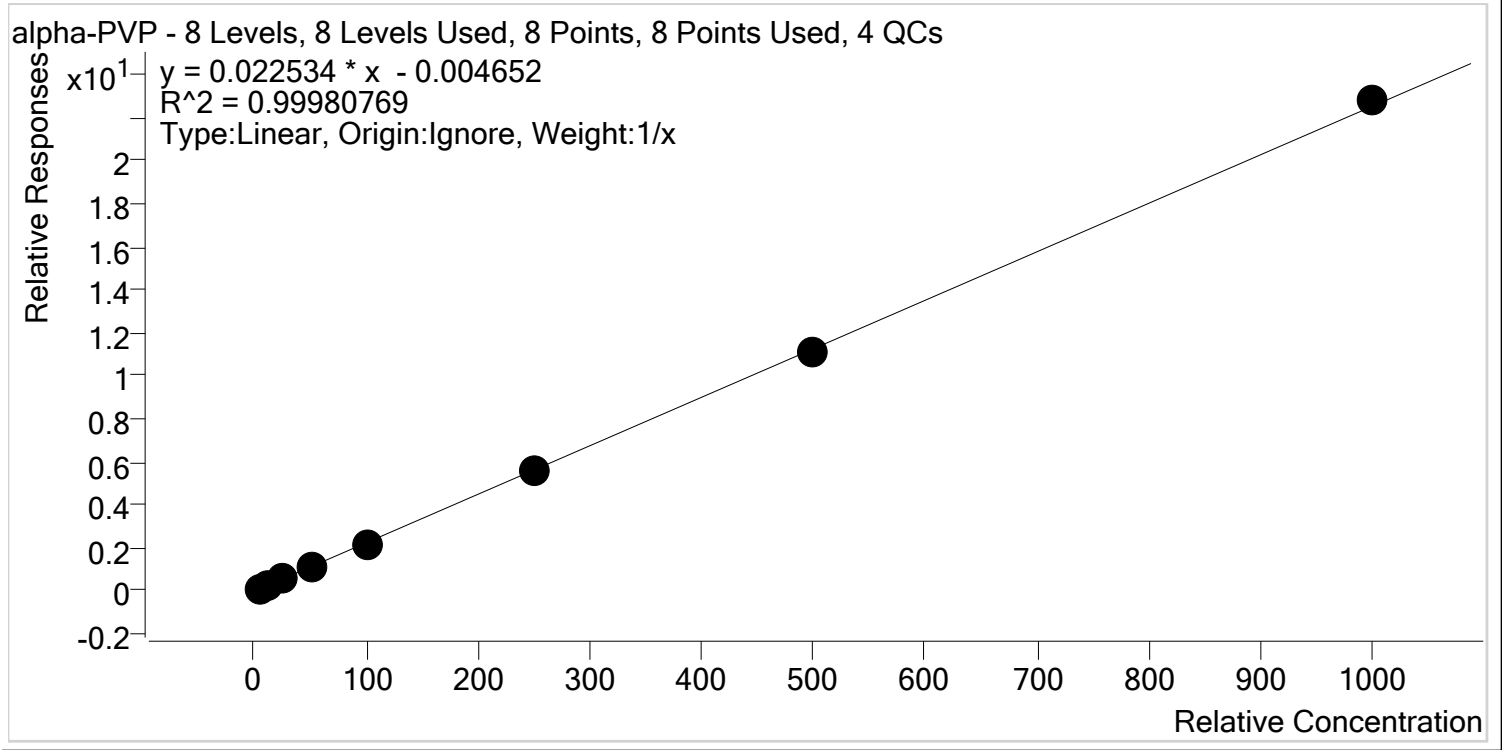


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.1	101.7
SP p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
SP p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
SP p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
SP p1 Cal 5-100ng	5	✓	100.0	94.2	94.2
SP p1 Cal 6-250ng	6	✓	250.0	263.0	105.2
SP p1 Cal 7-500ng	7	✓	500.0	484.9	97.0
SP p1 Cal 8-1000ng	8	✓	1000.0	1072.6	107.3



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8

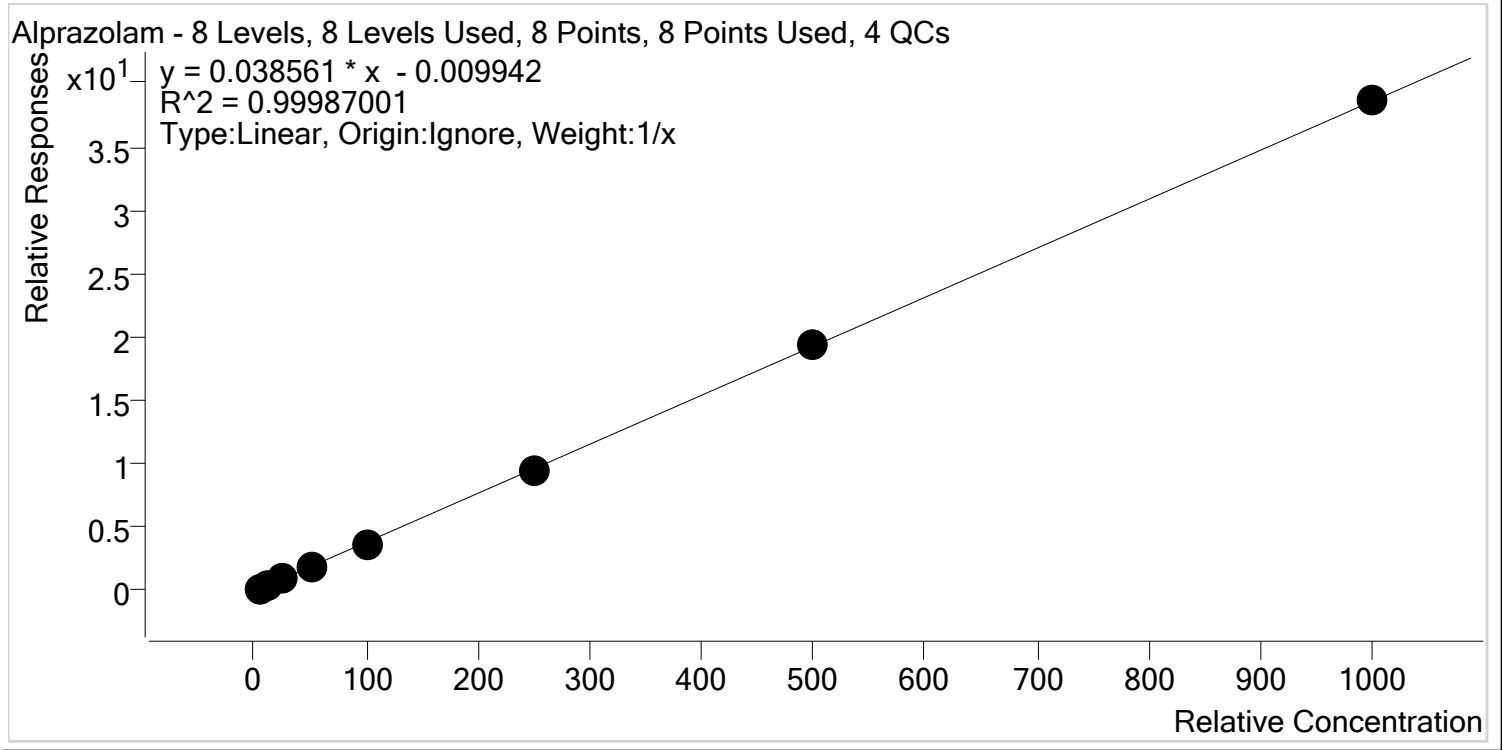


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.3	105.6
SP p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
SP p1 Cal 3 -25ng	3	✓	25.0	24.5	97.8
SP p1 Cal 4-50ng	4	✓	50.0	49.7	99.3
SP p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
SP p1 Cal 6-250ng	6	✓	250.0	247.5	99.0
SP p1 Cal 7-500ng	7	✓	500.0	493.6	98.7
SP p1 Cal 8-1000ng	8	✓	1000.0	1011.9	101.2



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5



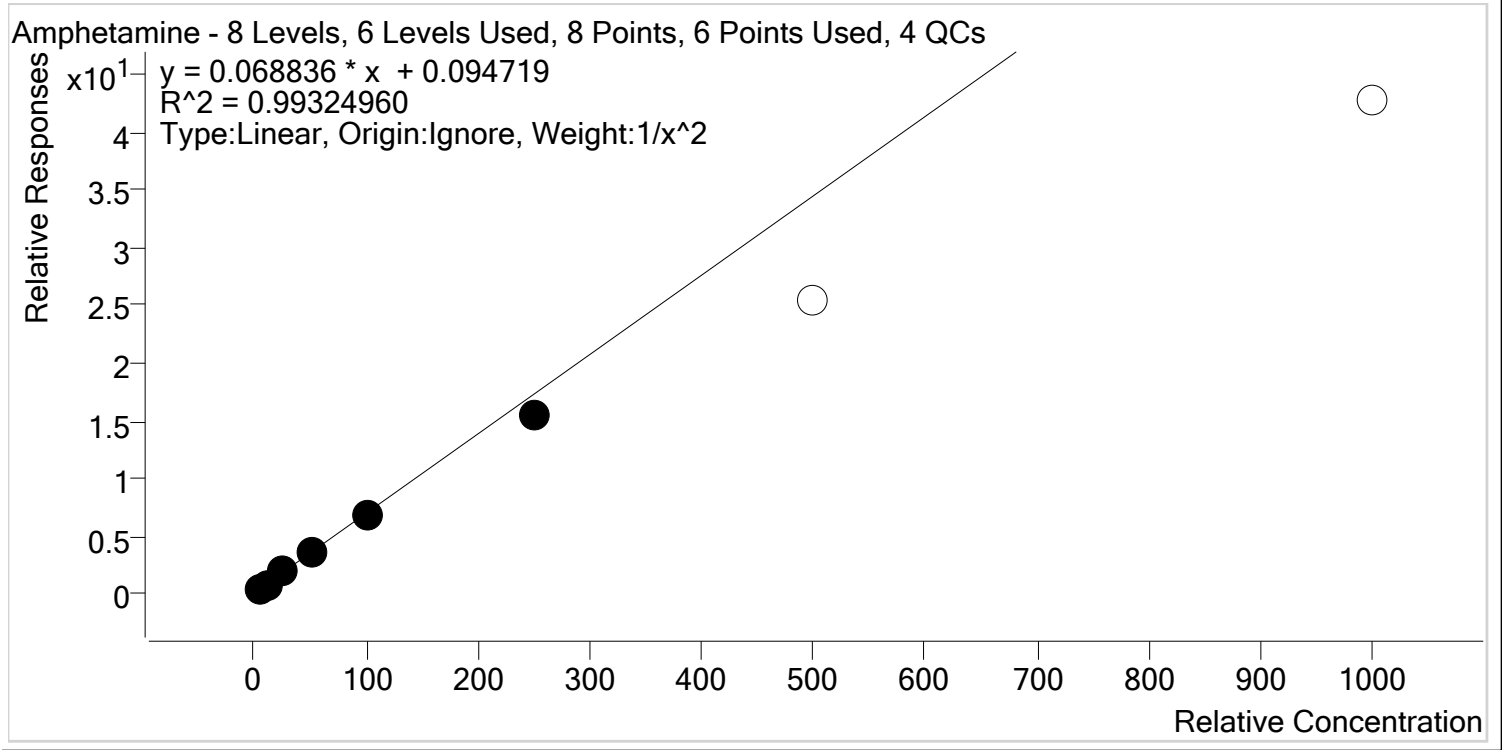
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.2	104.7
SP p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
SP p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
SP p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
SP p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
SP p1 Cal 6-250ng	6	✓	250.0	247.9	99.2
SP p1 Cal 7-500ng	7	✓	500.0	504.6	100.9
SP 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\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
SP p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
SP p1 Cal 3 -25ng	3	✓	25.0	26.5	105.9
SP p1 Cal 4-50ng	4	✓	50.0	52.9	105.9
SP p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
SP p1 Cal 6-250ng	6	✓	250.0	221.9	88.8
SP p1 Cal 7-500ng	7	x	500.0	369.8	74.0
SP p1 Cal 8-1000ng	8	x	1000.0	620.1	62.0

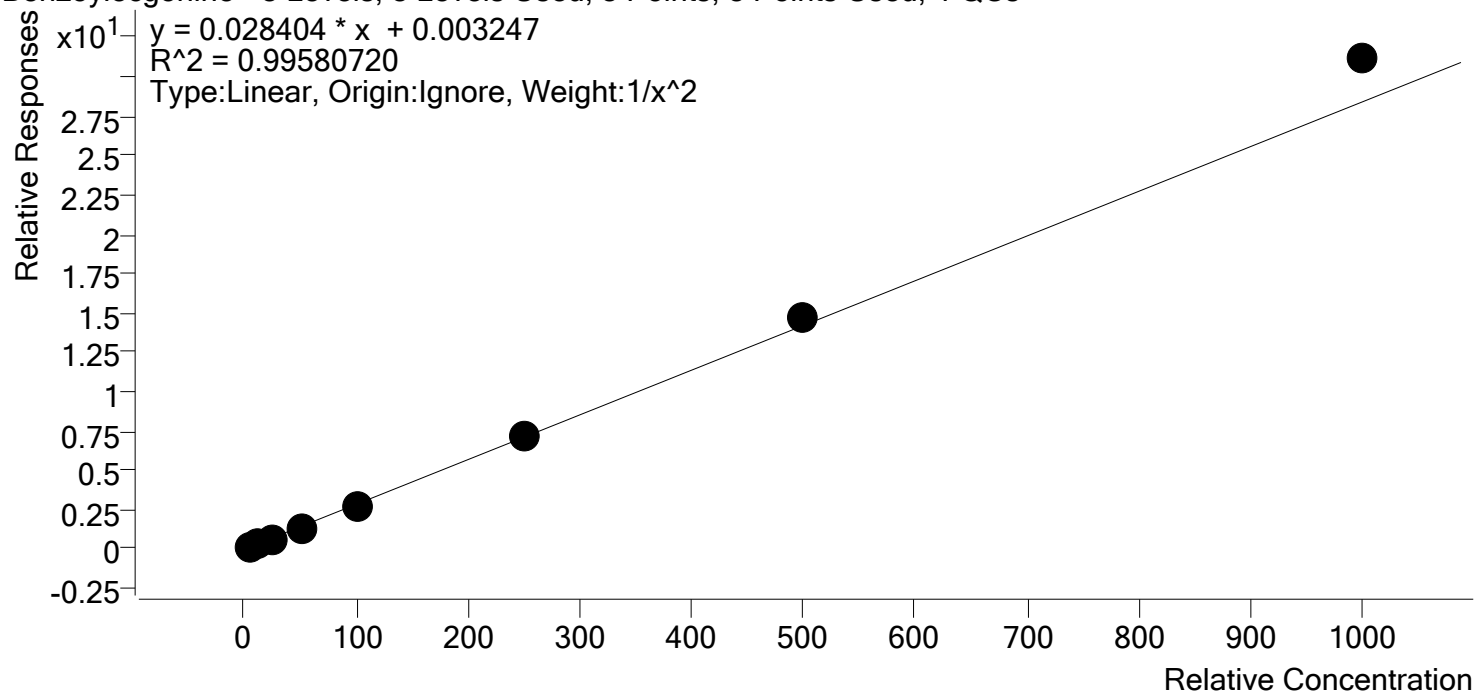
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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

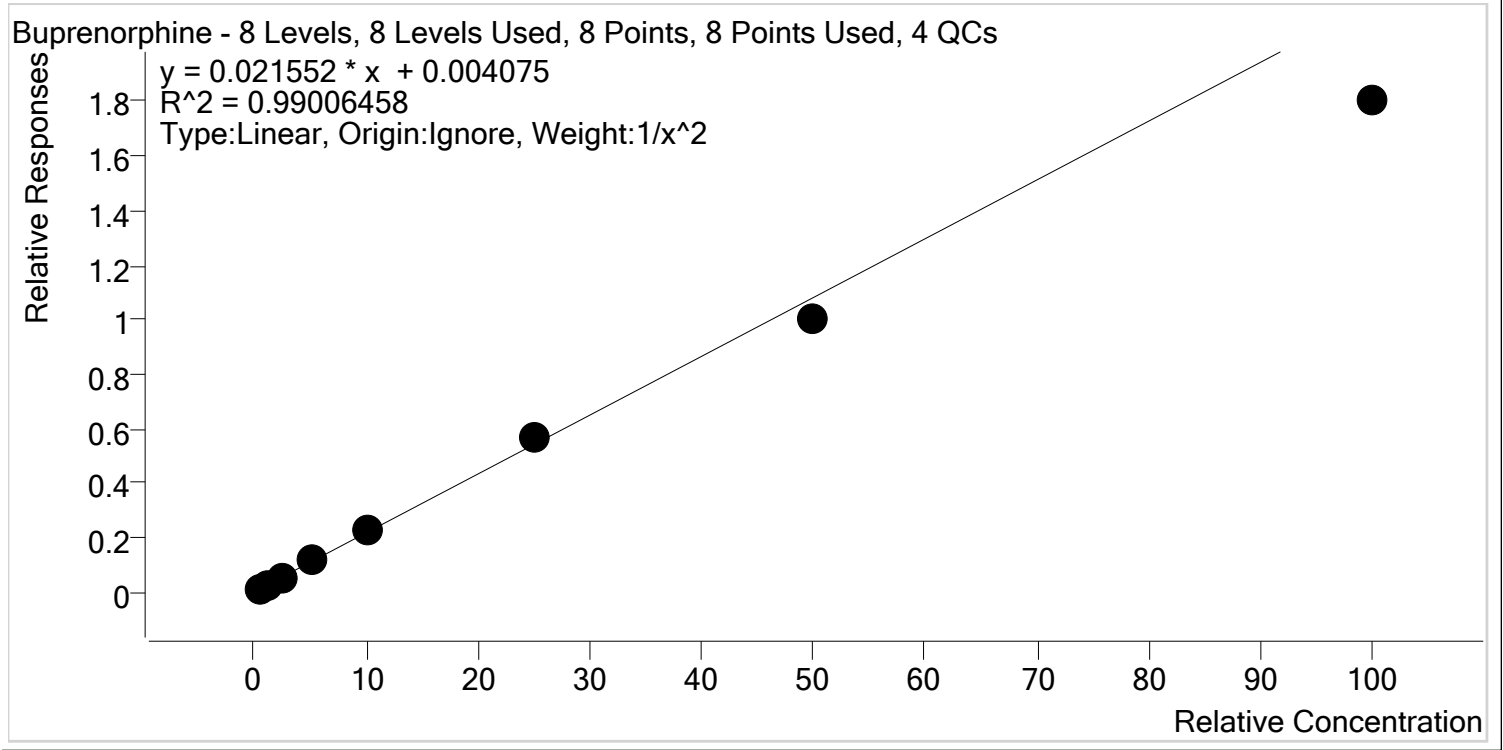


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.2	104.2
SP p1 Cal 2- 10ng	2	✓	10.0	9.5	95.4
SP p1 Cal 3 -25ng	3	✓	25.0	23.2	92.7
SP p1 Cal 4-50ng	4	✓	50.0	48.3	96.6
SP p1 Cal 5-100ng	5	✓	100.0	96.6	96.6
SP p1 Cal 6-250ng	6	✓	250.0	255.1	102.0
SP p1 Cal 7-500ng	7	✓	500.0	514.4	102.9
SP p1 Cal 8-1000ng	8	✓	1000.0	1097.0	109.7



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

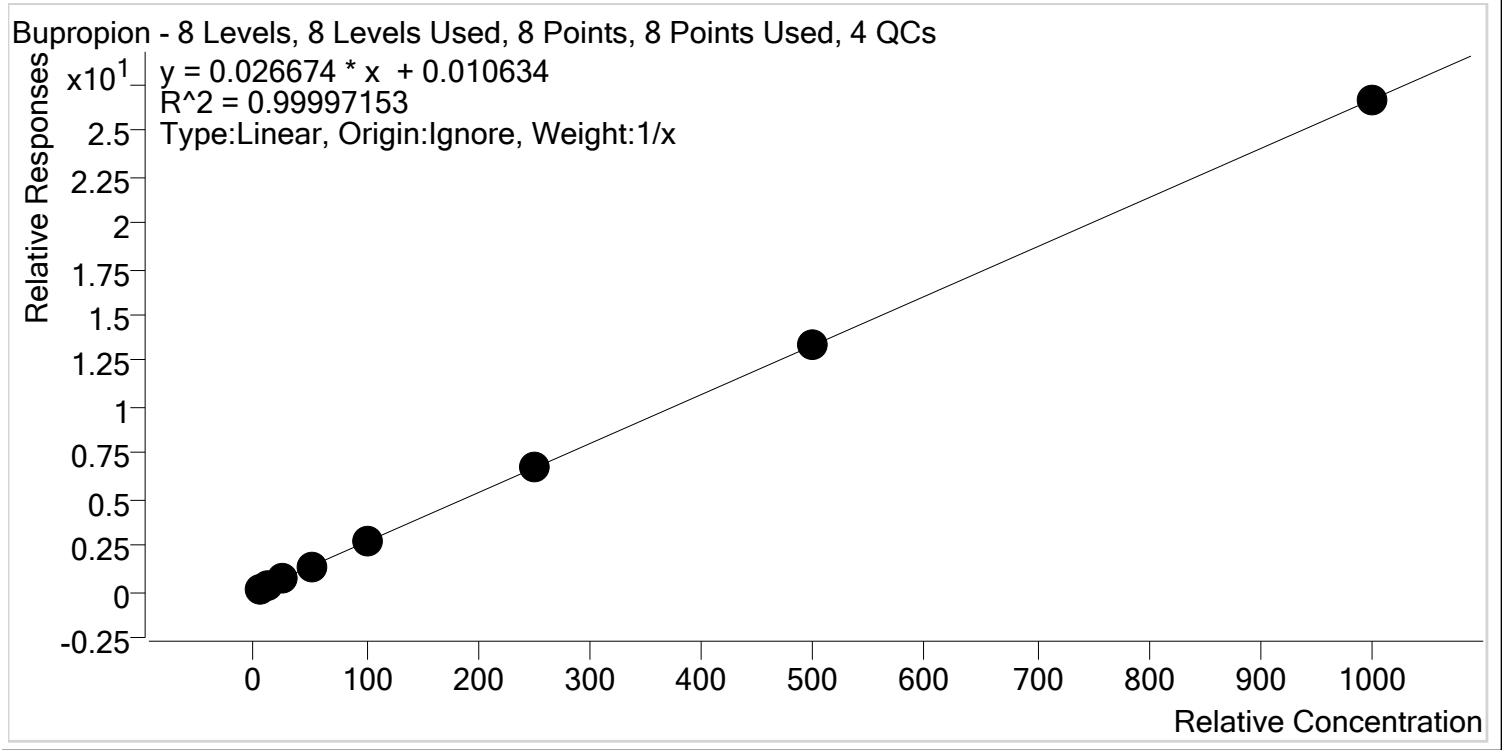


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	0.5	0.5	97.8
SP p1 Cal 2- 10ng	2	✓	1.0	1.0	100.3
SP p1 Cal 3 -25ng	3	✓	2.5	2.6	103.5
SP p1 Cal 4-50ng	4	✓	5.0	5.5	110.7
SP p1 Cal 5-100ng	5	✓	10.0	10.7	106.9
SP p1 Cal 6-250ng	6	✓	25.0	26.2	104.7
SP p1 Cal 7-500ng	7	✓	50.0	46.3	92.6
SP p1 Cal 8-1000ng	8	✓	100.0	83.5	83.5



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9



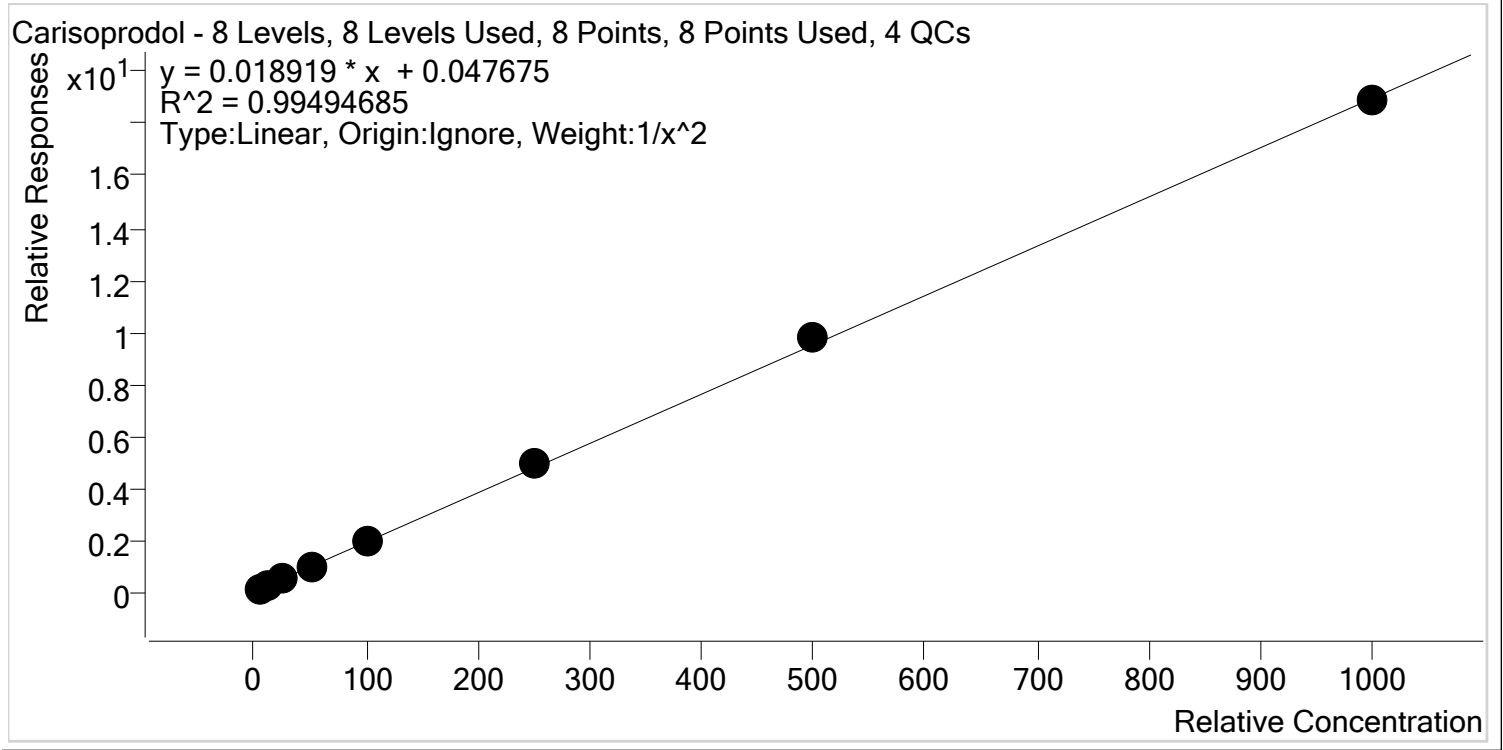
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
SP p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
SP p1 Cal 4-50ng	4	✓	50.0	51.3	102.7
SP p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
SP p1 Cal 6-250ng	6	✓	250.0	251.1	100.4
SP p1 Cal 7-500ng	7	✓	500.0	499.7	99.9
SP p1 Cal 8-1000ng	8	✓	1000.0	997.8	99.8

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7

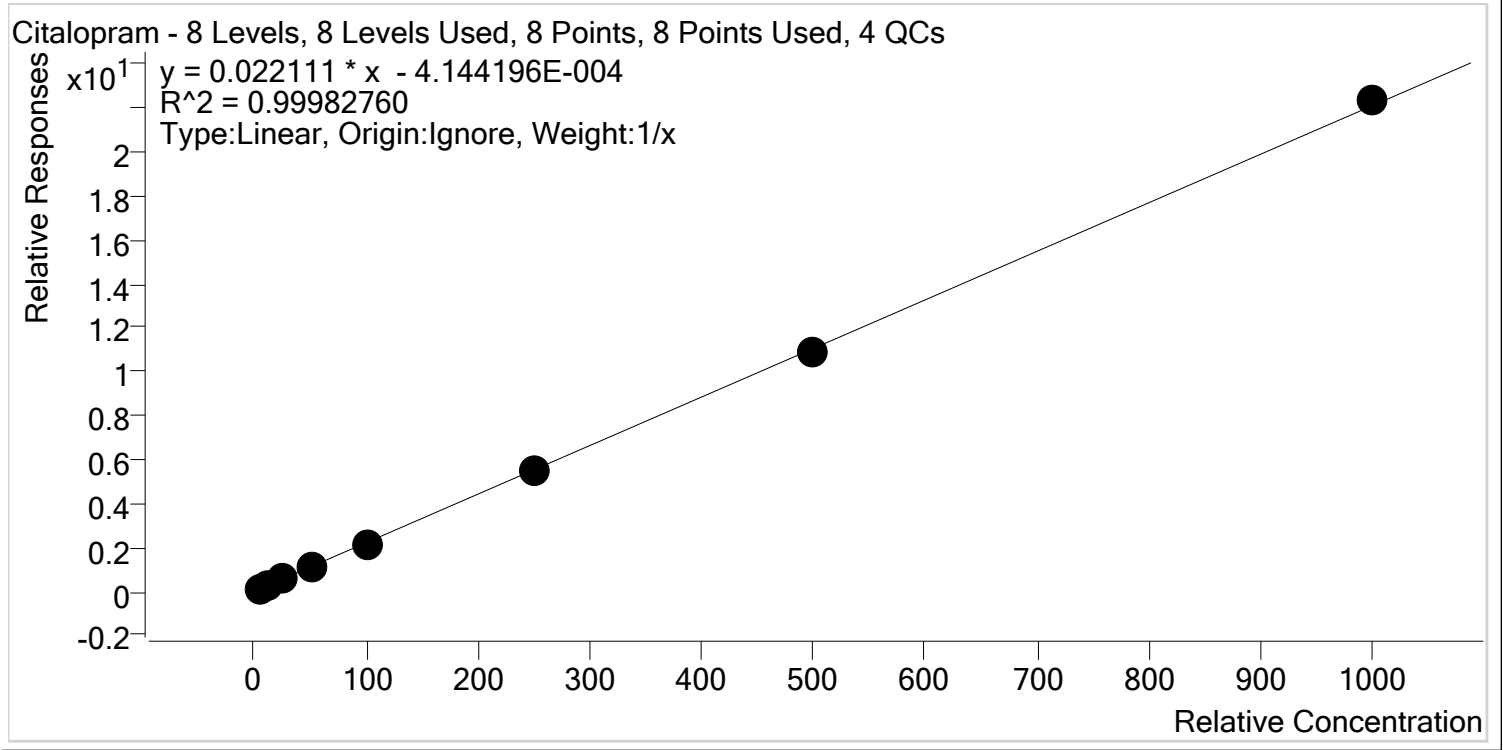


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.4	107.0
SP p1 Cal 2- 10ng	2	✓	10.0	8.7	86.9
SP p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
SP p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
SP p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
SP p1 Cal 6-250ng	6	✓	250.0	260.9	104.4
SP p1 Cal 7-500ng	7	✓	500.0	517.5	103.5
SP 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\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Citalopram **Internal Standard** Citalopram-D6

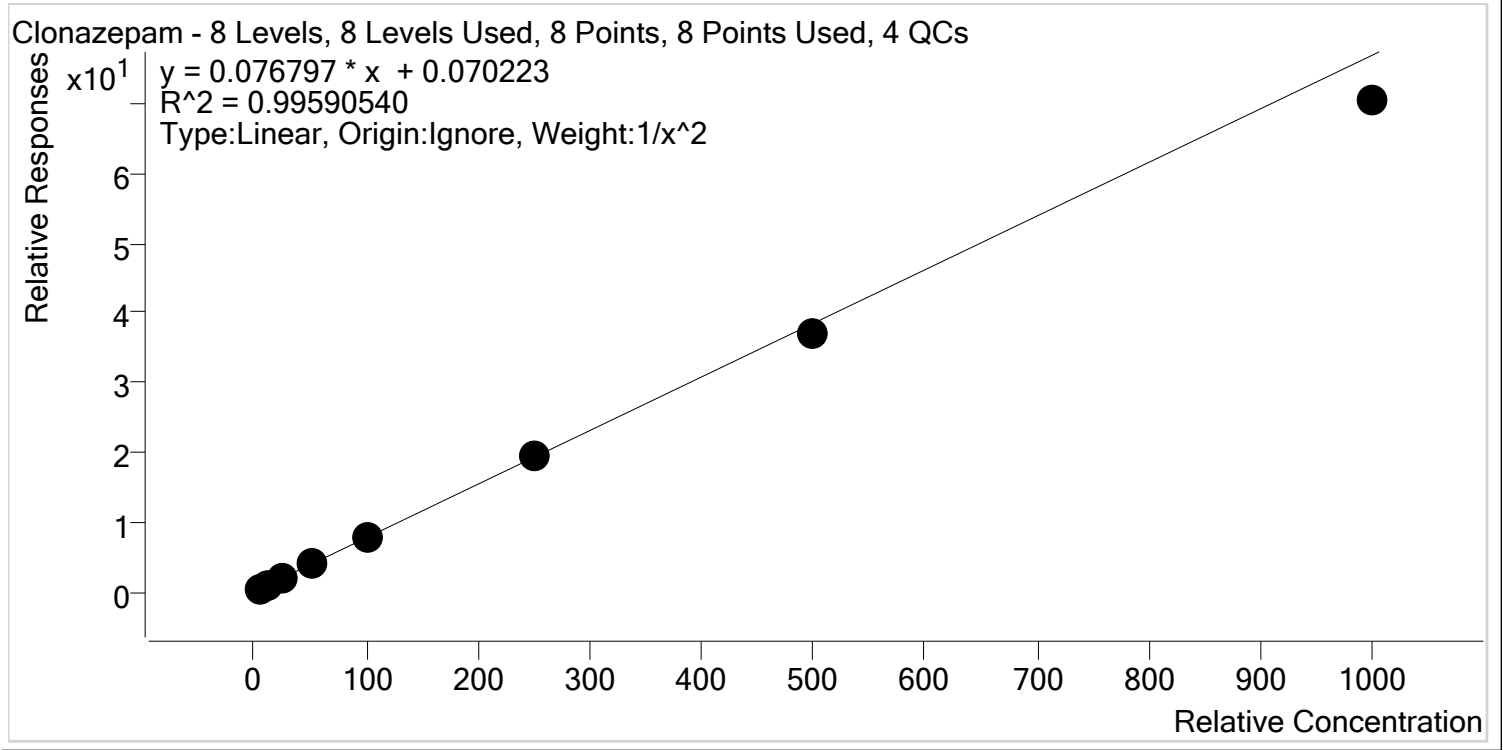


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.2	103.6
SP p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
SP p1 Cal 3 -25ng	3	✓	25.0	24.3	97.0
SP p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
SP p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
SP p1 Cal 6-250ng	6	✓	250.0	249.4	99.8
SP p1 Cal 7-500ng	7	✓	500.0	491.3	98.3
SP p1 Cal 8-1000ng	8	✓	1000.0	1010.6	101.1



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4



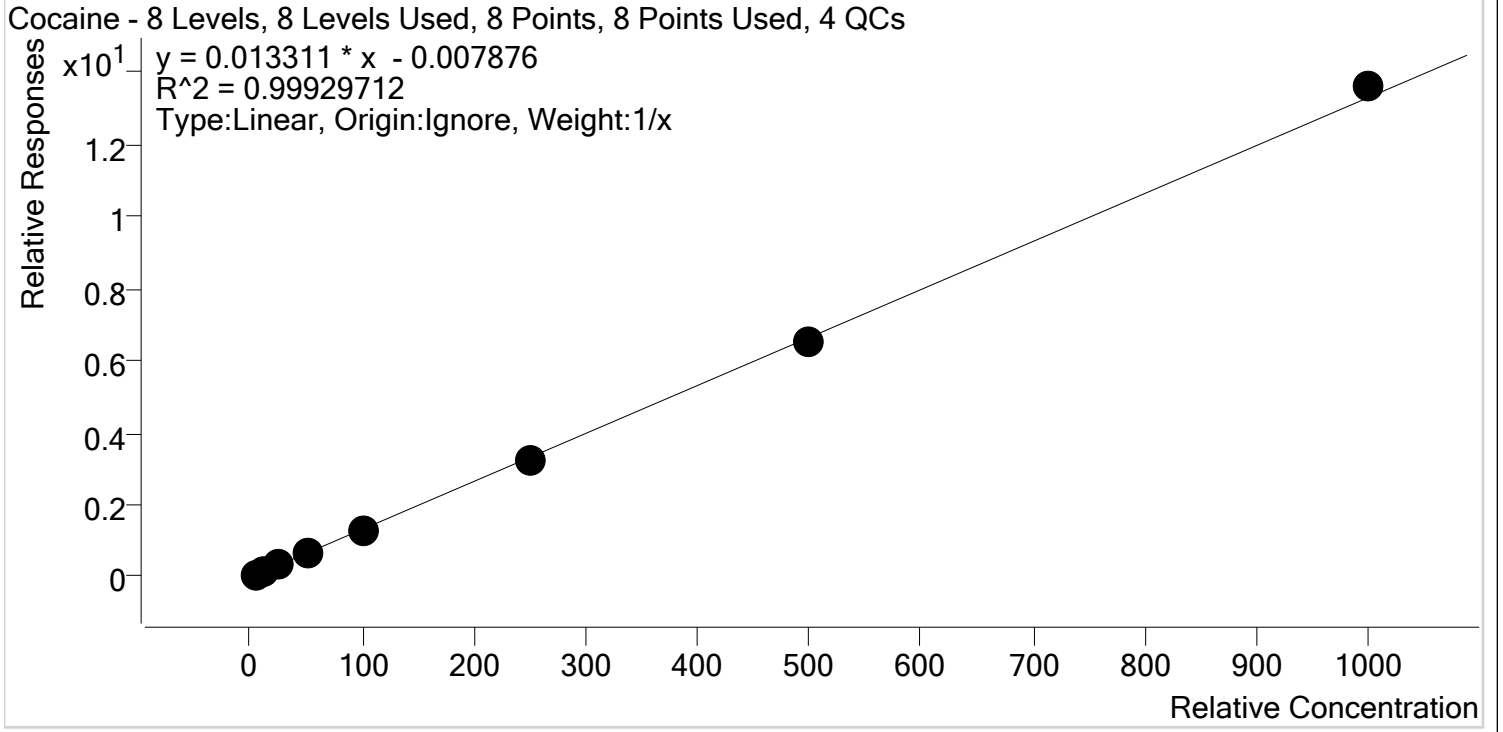
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
SP p1 Cal 2- 10ng	2	✓	10.0	9.4	93.6
SP p1 Cal 3 -25ng	3	✓	25.0	26.3	105.2
SP p1 Cal 4-50ng	4	✓	50.0	53.6	107.3
SP p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
SP p1 Cal 6-250ng	6	✓	250.0	256.0	102.4
SP p1 Cal 7-500ng	7	✓	500.0	482.2	96.4
SP p1 Cal 8-1000ng	8	✓	1000.0	915.4	91.5



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cocaine **Internal Standard** Cocaine-d3



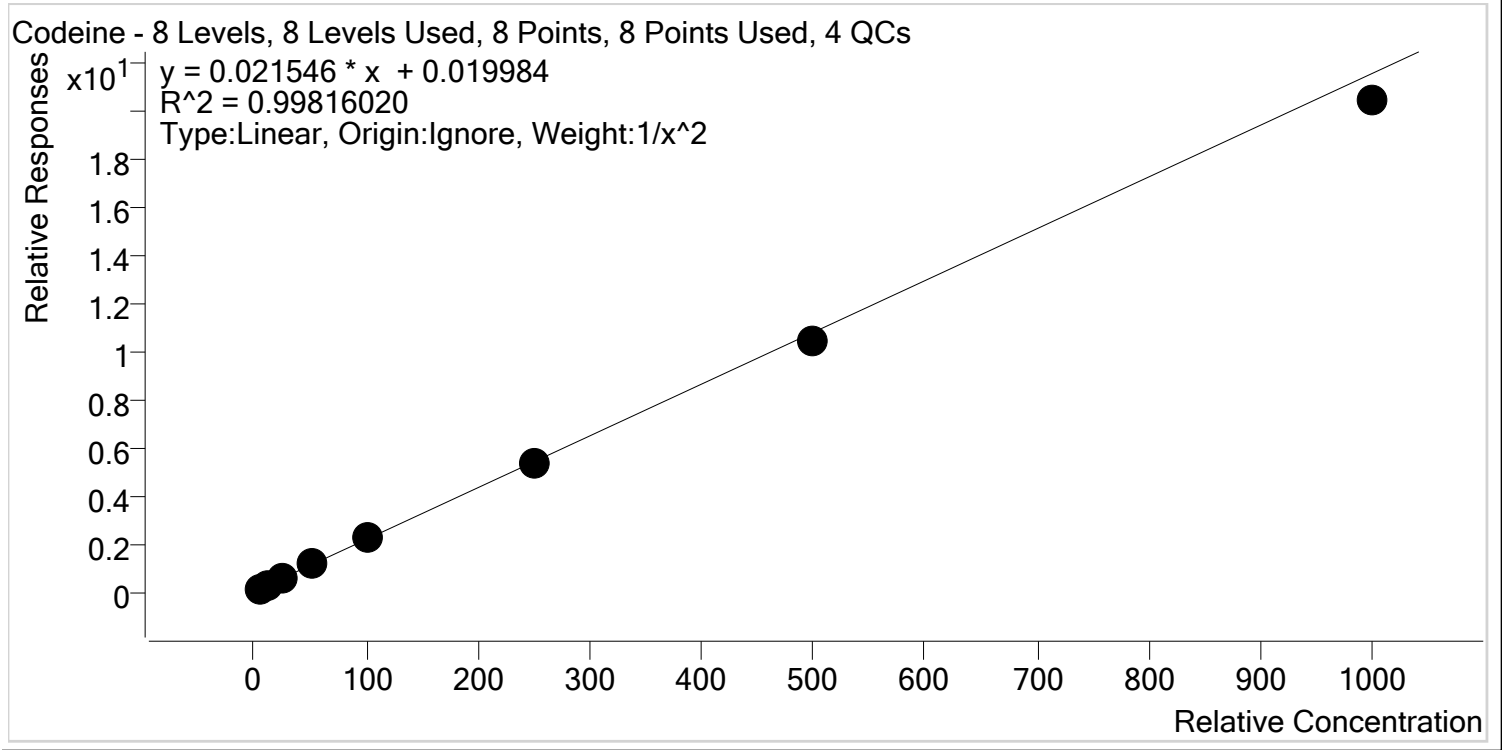
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.5	109.9
SP p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
SP p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
SP p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
SP p1 Cal 5-100ng	5	✓	100.0	95.3	95.3
SP p1 Cal 6-250ng	6	✓	250.0	243.2	97.3
SP p1 Cal 7-500ng	7	✓	500.0	489.5	97.9
SP p1 Cal 8-1000ng	8	✓	1000.0	1023.0	102.3





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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Codeine **Internal Standard** Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
SP p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
SP p1 Cal 3 -25ng	3	✓	25.0	25.2	100.6
SP p1 Cal 4-50ng	4	✓	50.0	52.4	104.8
SP p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
SP p1 Cal 6-250ng	6	✓	250.0	249.1	99.6
SP p1 Cal 7-500ng	7	✓	500.0	480.5	96.1
SP p1 Cal 8-1000ng	8	✓	1000.0	947.6	94.8

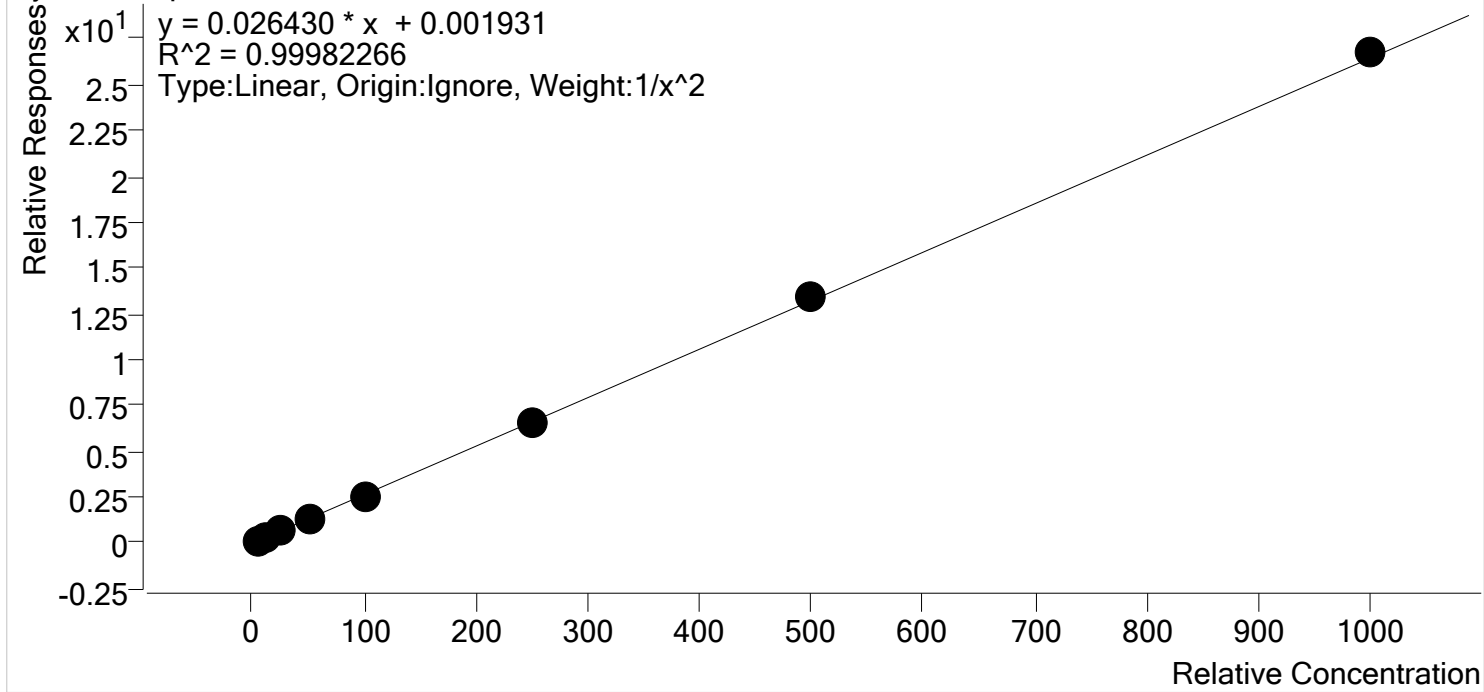
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

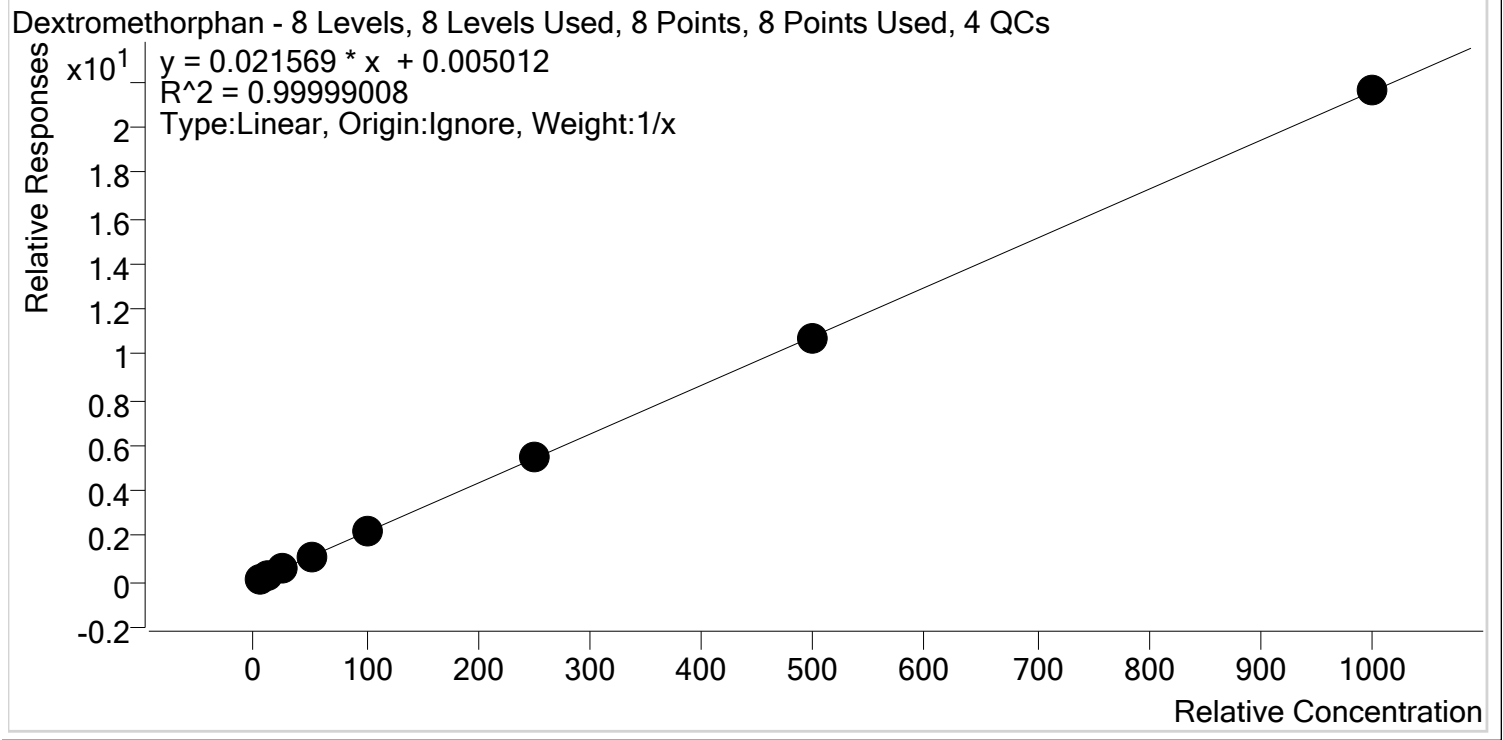


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
SP p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
SP p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
SP p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
SP p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
SP p1 Cal 7-500ng	7	✓	500.0	505.7	101.1
SP p1 Cal 8-1000ng	8	✓	1000.0	1011.7	101.2



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

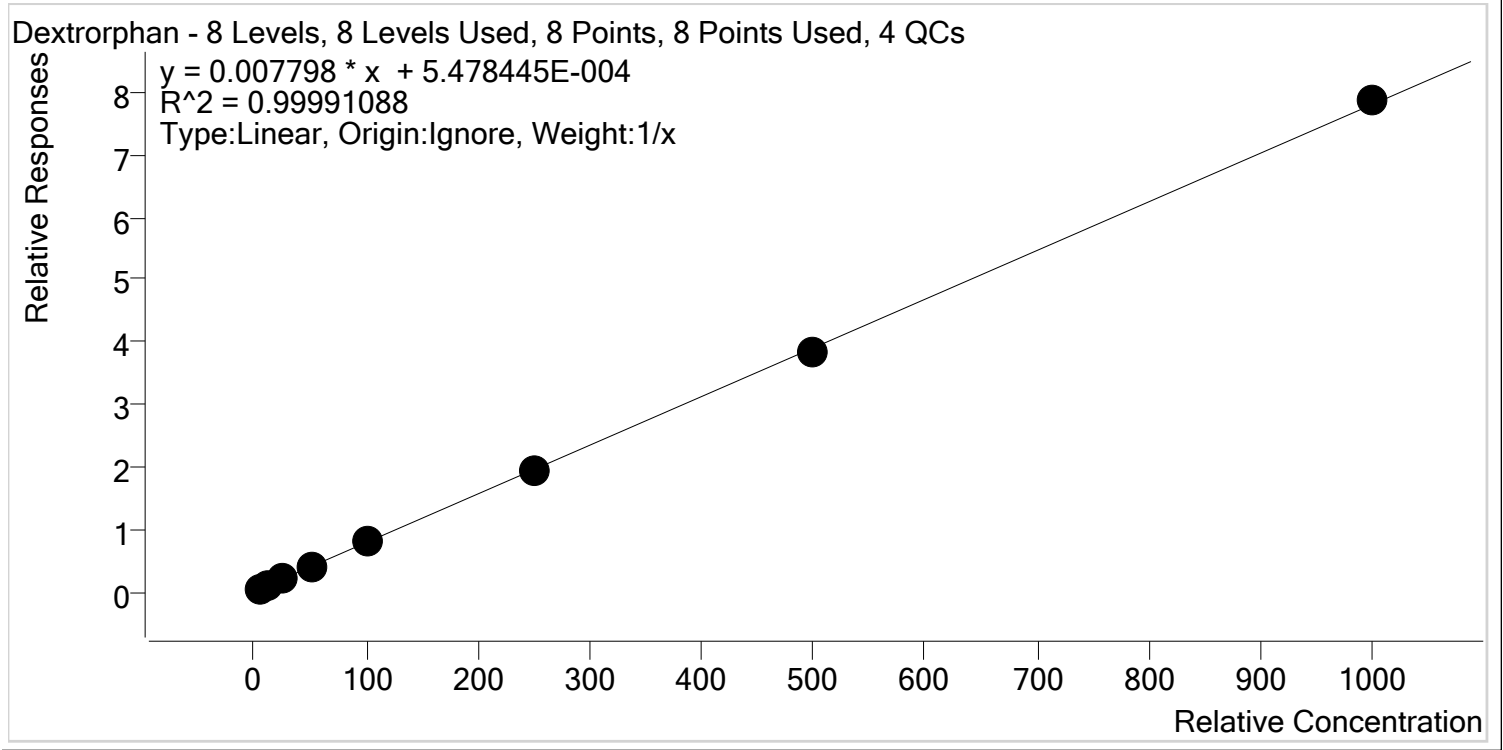


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	99.0
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
SP p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
SP p1 Cal 4-50ng	4	✓	50.0	50.2	100.5
SP p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
SP p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
SP p1 Cal 7-500ng	7	✓	500.0	497.9	99.6
SP p1 Cal 8-1000ng	8	✓	1000.0	1001.8	100.2



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3

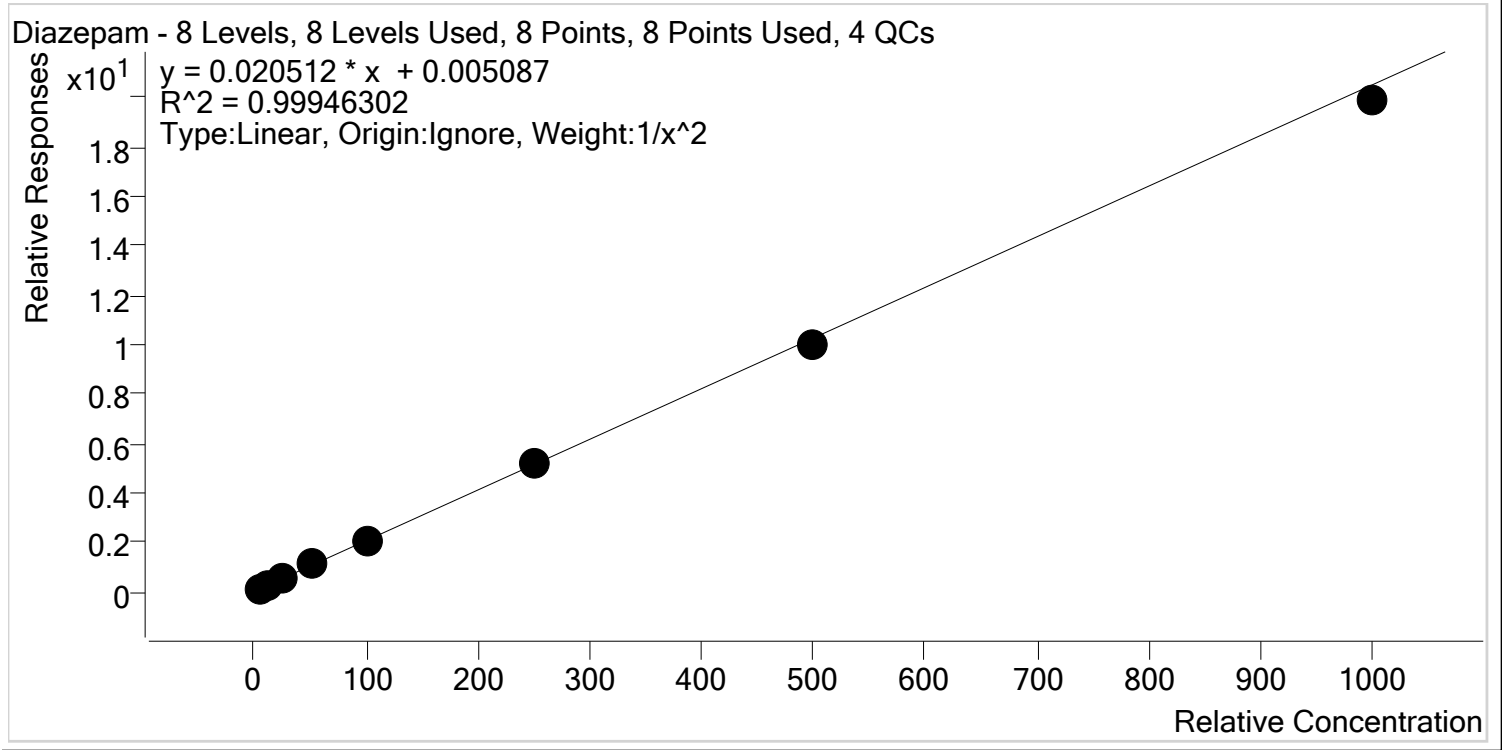


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.2	103.5
SP p1 Cal 2- 10ng	2	✓	10.0	9.9	99.1
SP p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
SP p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
SP p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
SP p1 Cal 6-250ng	6	✓	250.0	247.3	98.9
SP p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
SP p1 Cal 8-1000ng	8	✓	1000.0	1008.1	100.8



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diazepam **Internal Standard** Diazepam-D5



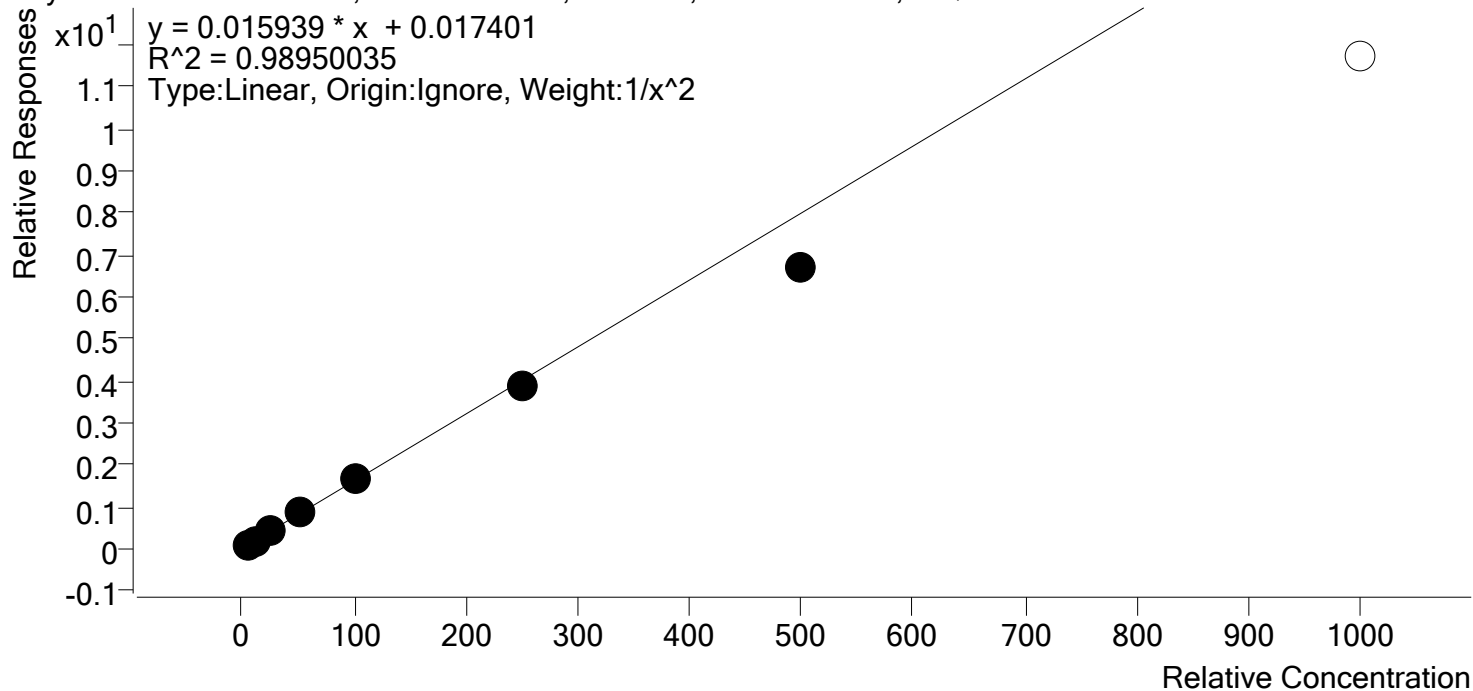
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
SP p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
SP p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
SP p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
SP p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
SP p1 Cal 6-250ng	6	✓	250.0	249.6	99.8
SP p1 Cal 7-500ng	7	✓	500.0	489.6	97.9
SP p1 Cal 8-1000ng	8	✓	1000.0	969.0	96.9



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

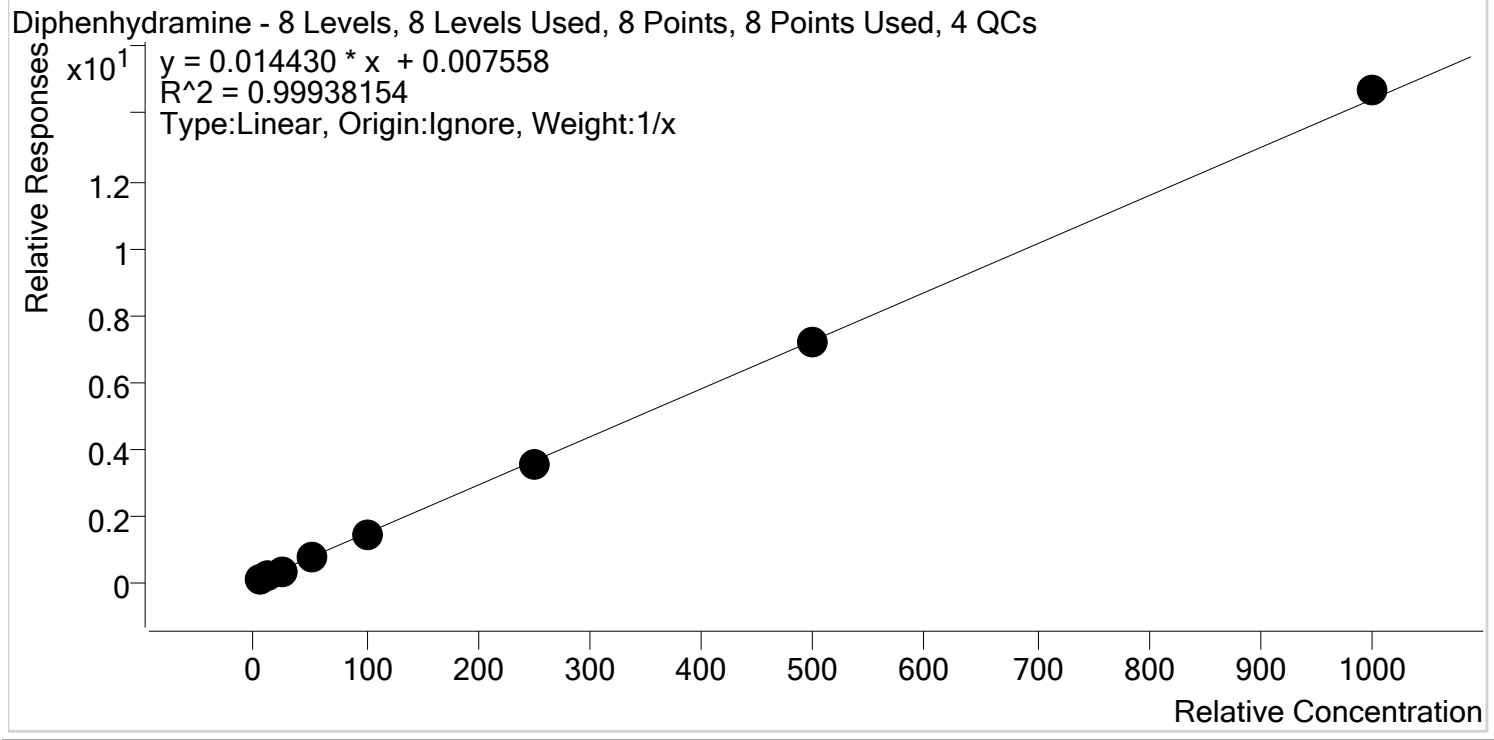


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
SP p1 Cal 2- 10ng	2	✓	10.0	10.3	103.1
SP p1 Cal 3 -25ng	3	✓	25.0	27.1	108.4
SP p1 Cal 4-50ng	4	✓	50.0	54.3	108.7
SP p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
SP p1 Cal 6-250ng	6	✓	250.0	240.6	96.3
SP p1 Cal 7-500ng	7	✓	500.0	420.0	84.0
SP p1 Cal 8-1000ng	8	✗	1000.0	733.6	73.4



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	6.0	119.9
SP p1 Cal 2- 10ng	2	✓	10.0	9.6	95.5
SP p1 Cal 3 -25ng	3	✓	25.0	23.6	94.3
SP p1 Cal 4-50ng	4	✓	50.0	48.1	96.3
SP p1 Cal 5-100ng	5	✓	100.0	95.3	95.3
SP p1 Cal 6-250ng	6	✓	250.0	244.6	97.8
SP p1 Cal 7-500ng	7	✓	500.0	494.5	98.9
SP p1 Cal 8-1000ng	8	✓	1000.0	1018.3	101.8

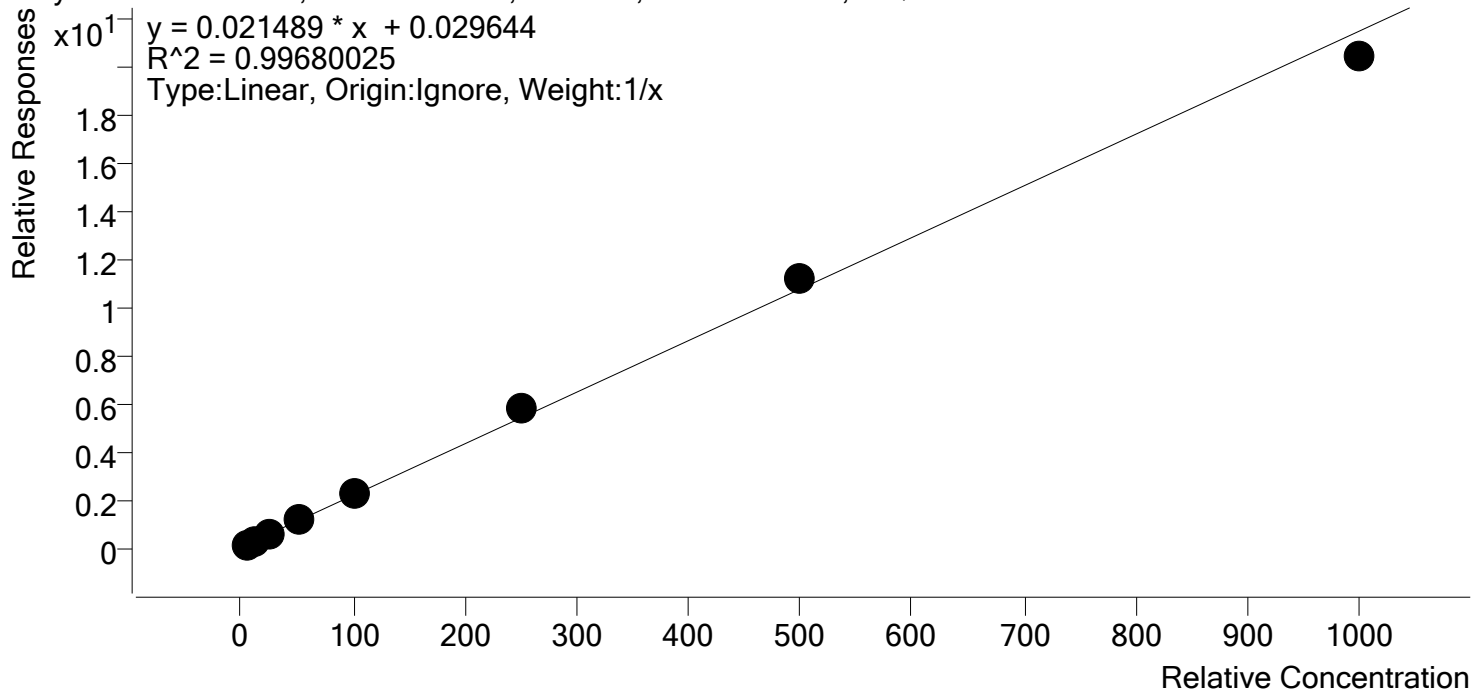
S



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5

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



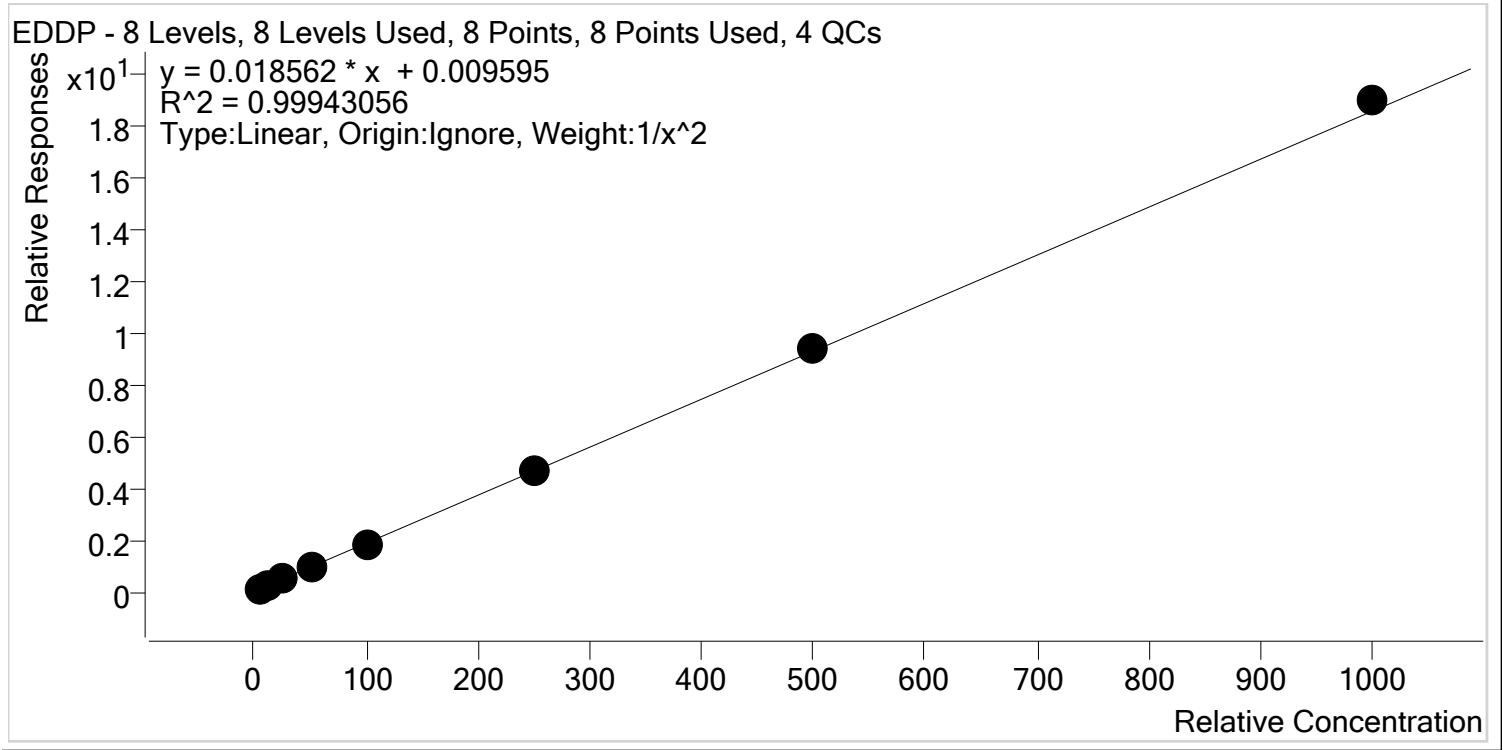
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.2	84.9
SP p1 Cal 2- 10ng	2	✓	10.0	9.5	95.0
SP p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
SP p1 Cal 4-50ng	4	✓	50.0	53.2	106.5
SP p1 Cal 5-100ng	5	✓	100.0	104.9	104.9
SP p1 Cal 6-250ng	6	✓	250.0	271.0	108.4
SP p1 Cal 7-500ng	7	✓	500.0	521.2	104.2
SP p1 Cal 8-1000ng	8	✓	1000.0	950.7	95.1





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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** EDDP **Internal Standard** EDDP-D3

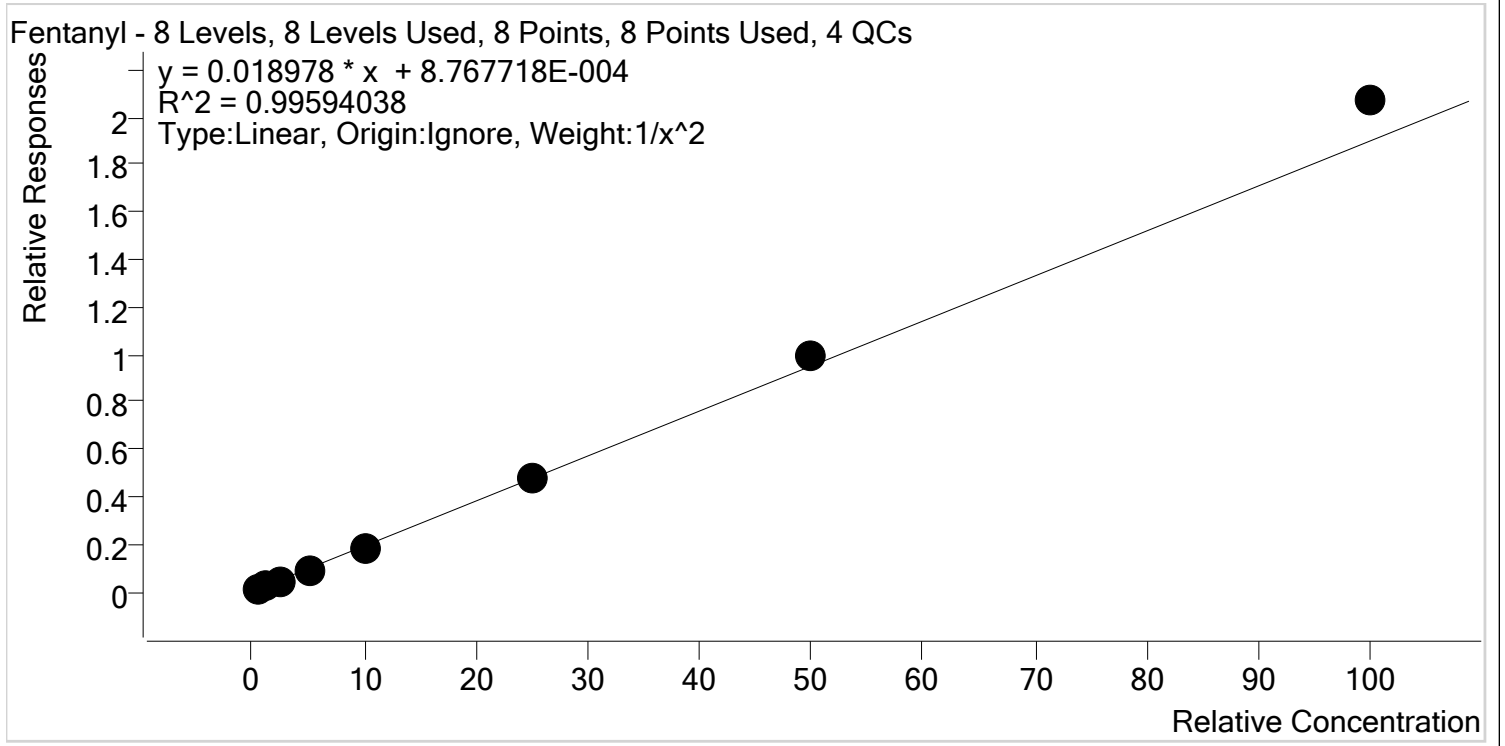


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
SP p1 Cal 2- 10ng	2	✓	10.0	9.8	97.7
SP p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
SP p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
SP p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
SP p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
SP p1 Cal 7-500ng	7	✓	500.0	507.9	101.6
SP p1 Cal 8-1000ng	8	✓	1000.0	1022.3	102.2



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	0.5	0.5	104.2
SP p1 Cal 2- 10ng	2	✓	1.0	1.0	95.3
SP p1 Cal 3 -25ng	3	✓	2.5	2.3	92.4
SP p1 Cal 4-50ng	4	✓	5.0	4.8	96.9
SP p1 Cal 5-100ng	5	✓	10.0	9.7	96.7
SP p1 Cal 6-250ng	6	✓	25.0	25.4	101.7
SP p1 Cal 7-500ng	7	✓	50.0	51.9	103.8
SP p1 Cal 8-1000ng	8	✓	100.0	109.0	109.0

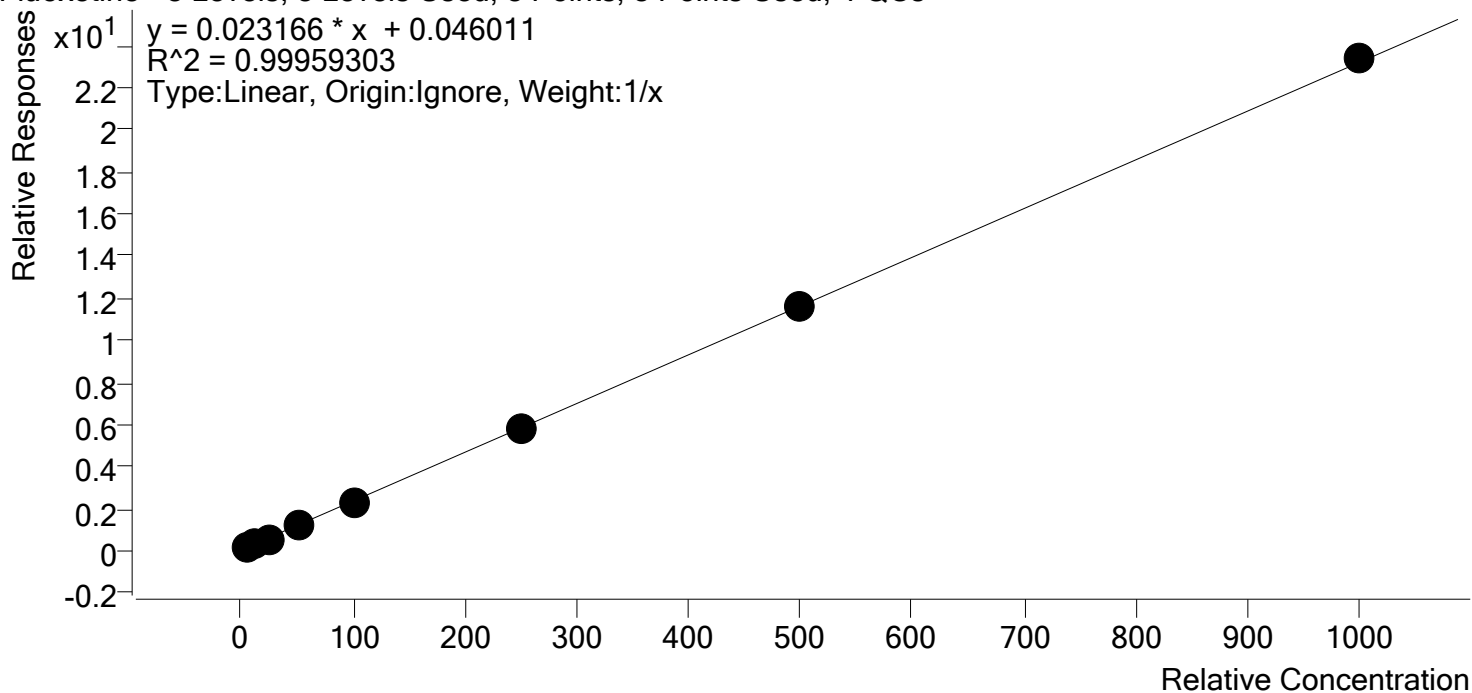
S



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

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

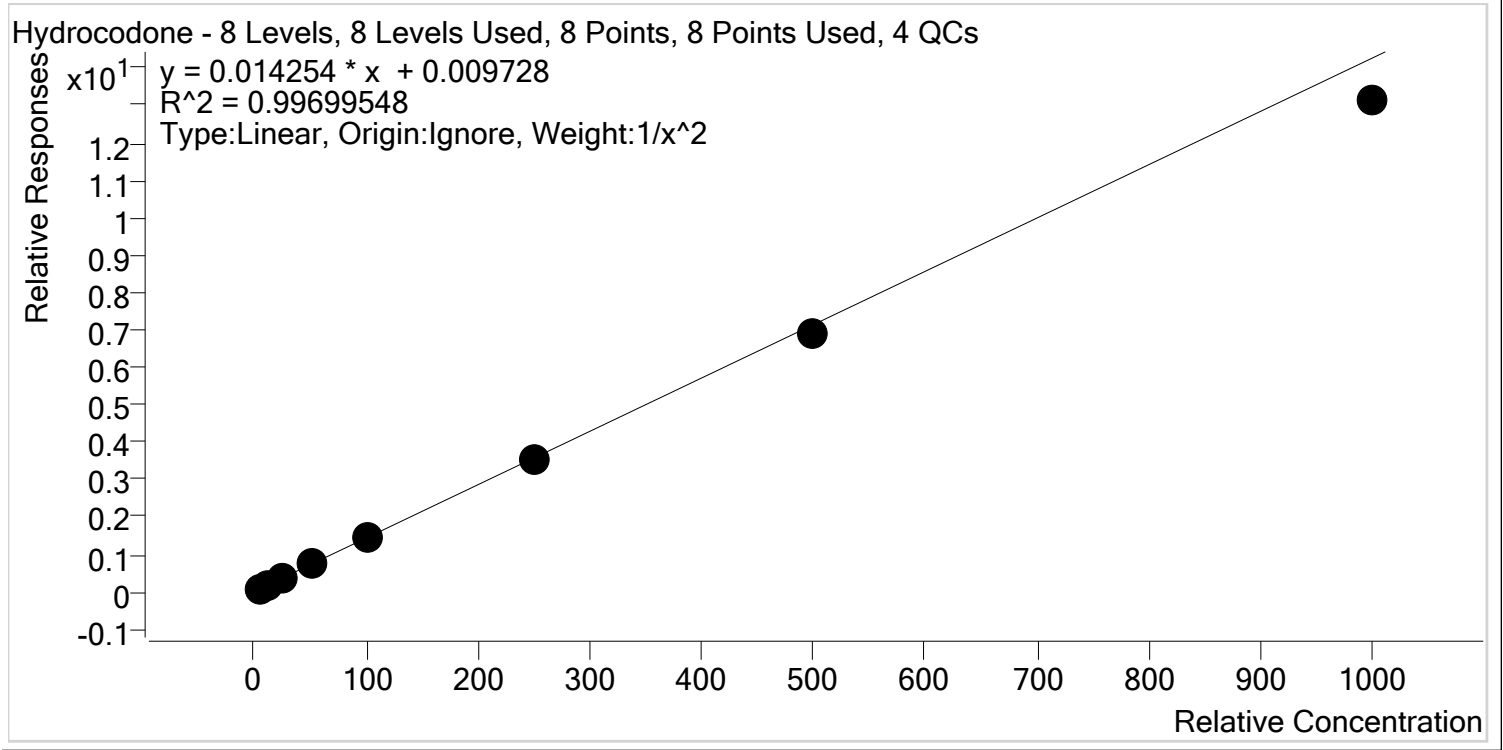


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	6.1	122.7
SP p1 Cal 2- 10ng	2	✓	10.0	8.8	88.3
SP p1 Cal 3 -25ng	3	✓	25.0	23.3	93.3
SP p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
SP p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
SP p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
SP p1 Cal 7-500ng	7	✓	500.0	501.3	100.3
SP p1 Cal 8-1000ng	8	✓	1000.0	1007.9	100.8



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6



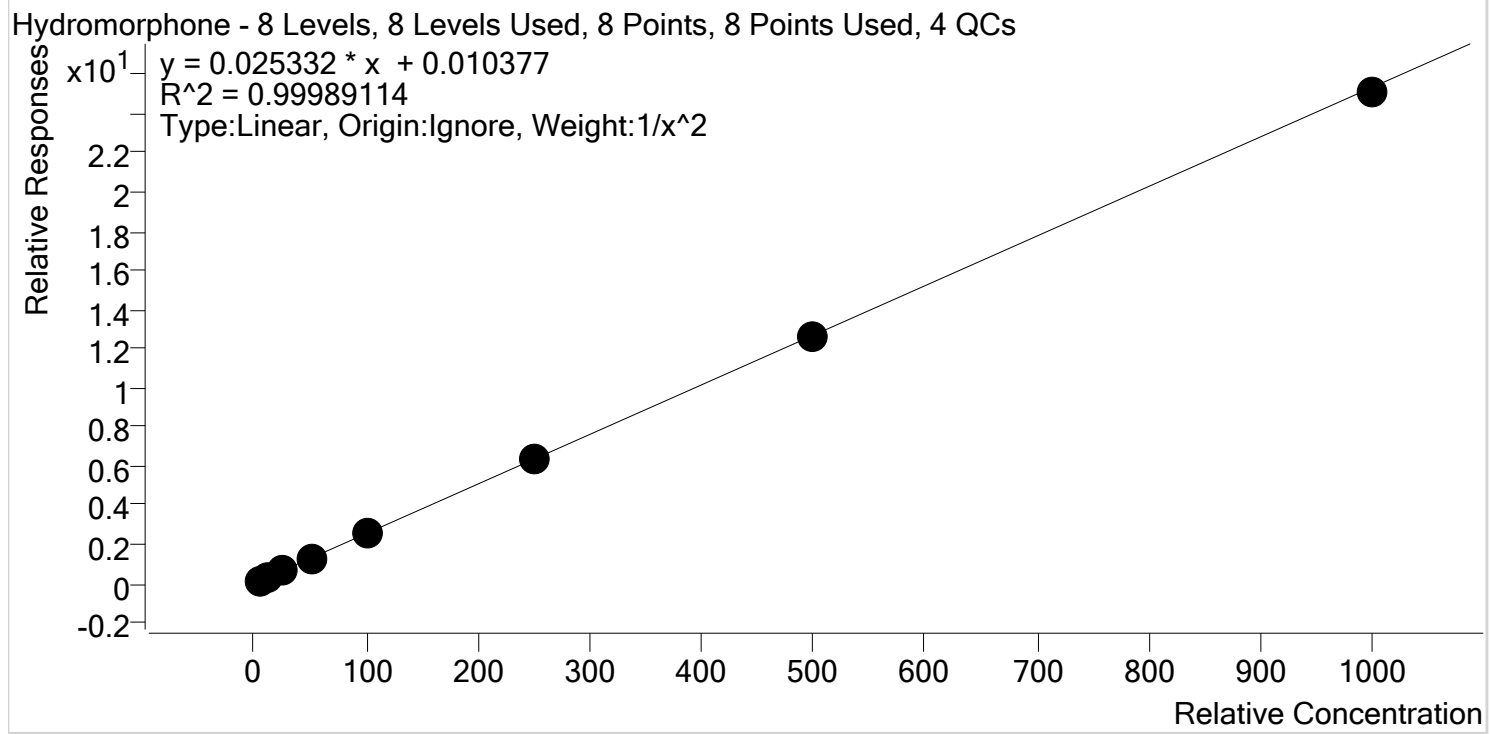
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
SP p1 Cal 3 -25ng	3	✓	25.0	26.1	104.6
SP p1 Cal 4-50ng	4	✓	50.0	53.5	107.0
SP p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
SP p1 Cal 6-250ng	6	✓	250.0	244.2	97.7
SP p1 Cal 7-500ng	7	✓	500.0	486.0	97.2
SP p1 Cal 8-1000ng	8	✓	1000.0	920.3	92.0

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

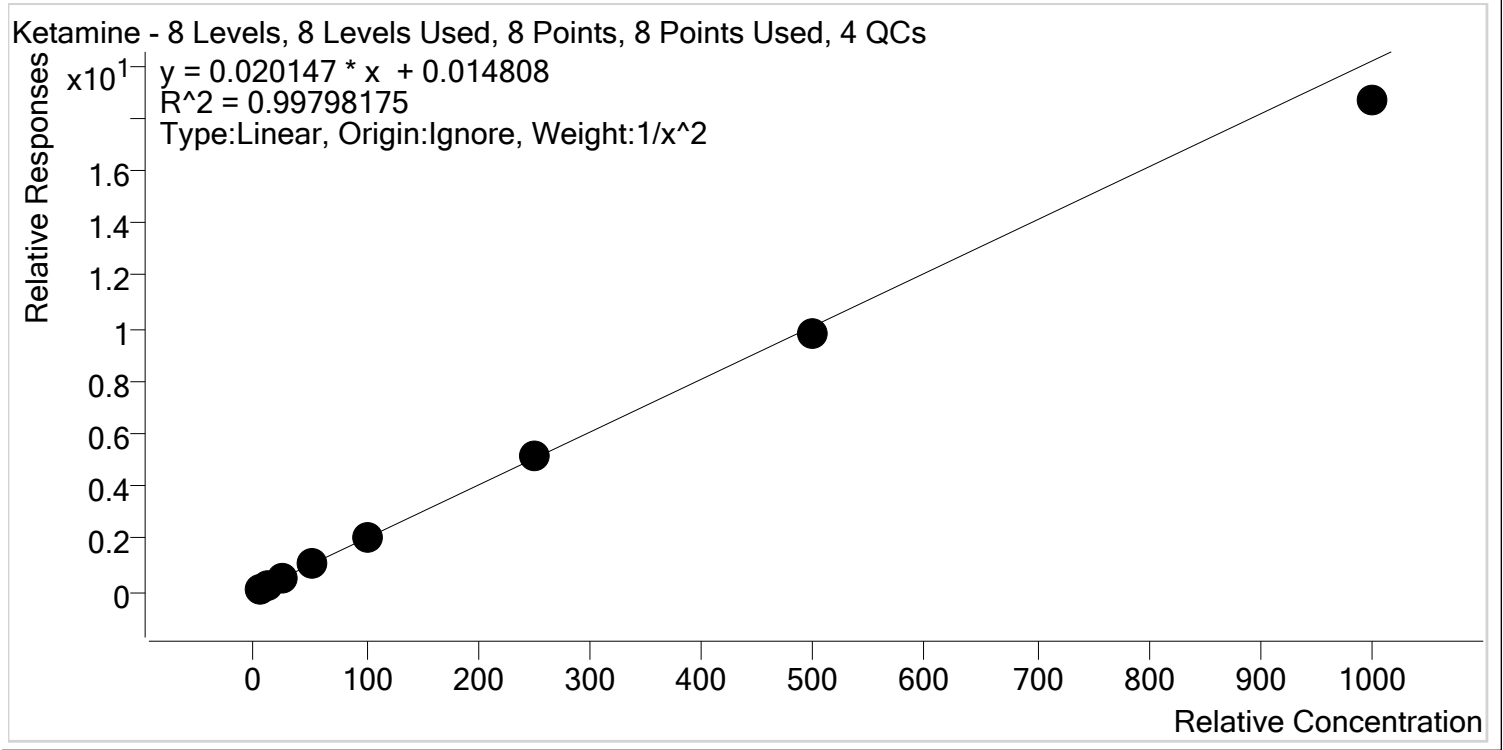


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
SP p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
SP p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
SP p1 Cal 4-50ng	4	✓	50.0	50.5	101.1
SP p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
SP p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
SP p1 Cal 7-500ng	7	✓	500.0	496.8	99.4
SP p1 Cal 8-1000ng	8	✓	1000.0	989.4	98.9

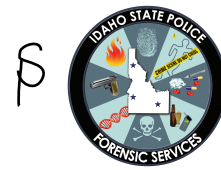


# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4

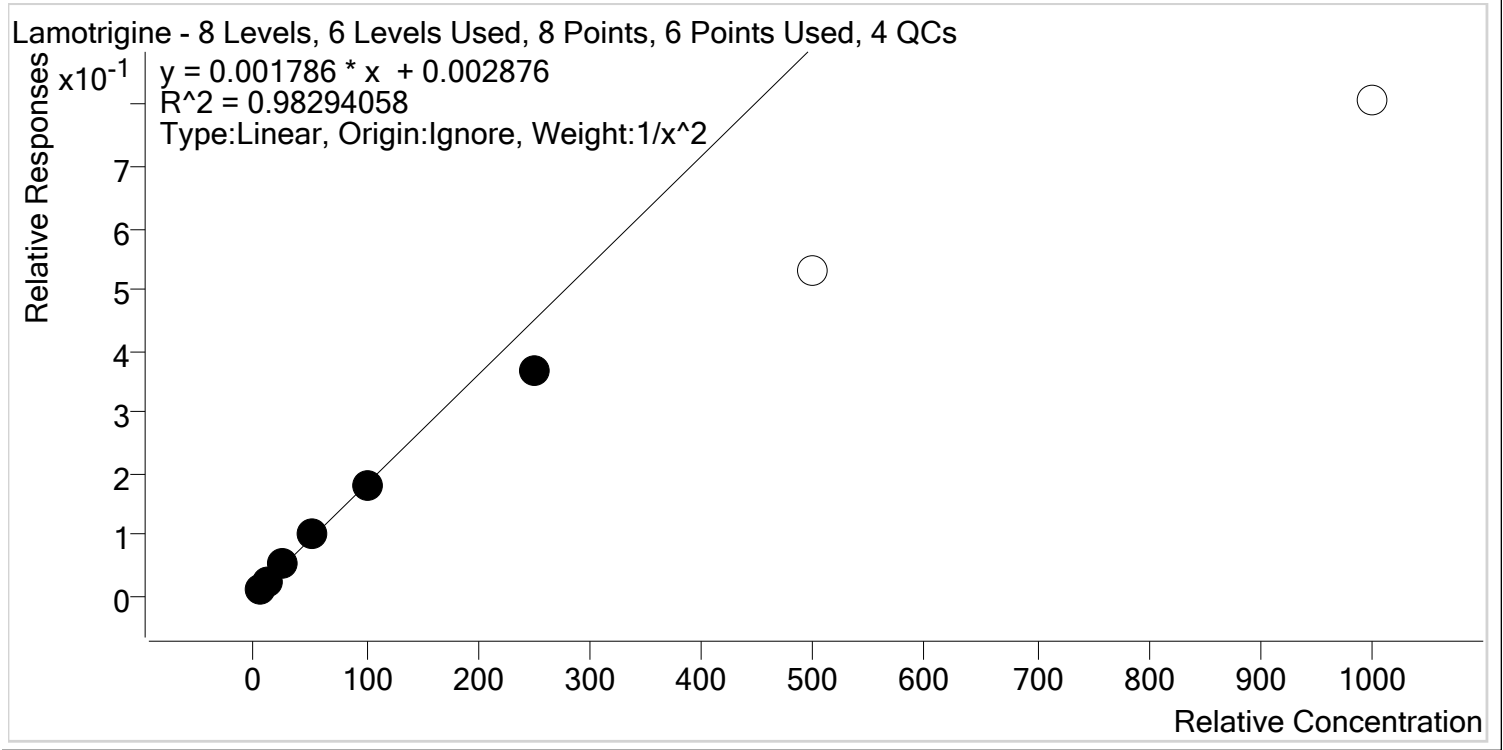


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
SP p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
SP p1 Cal 3 -25ng	3	✓	25.0	25.5	102.1
SP p1 Cal 4-50ng	4	✓	50.0	52.3	104.5
SP p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
SP p1 Cal 6-250ng	6	✓	250.0	256.1	102.4
SP p1 Cal 7-500ng	7	✓	500.0	483.1	96.6
SP p1 Cal 8-1000ng	8	✓	1000.0	925.2	92.5



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4

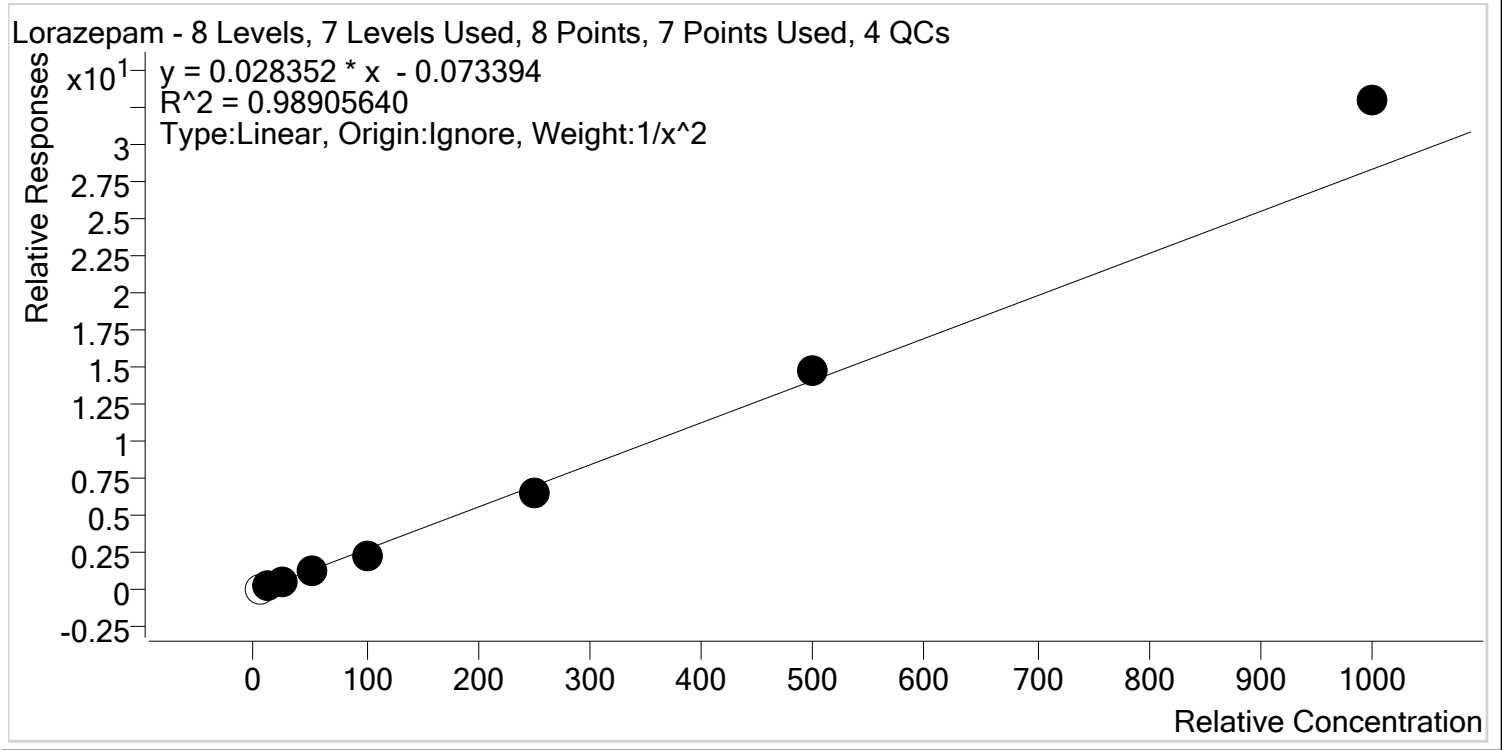


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	97.2
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
SP p1 Cal 3 -25ng	3	✓	25.0	27.8	111.0
SP p1 Cal 4-50ng	4	✓	50.0	55.4	110.8
SP p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
SP p1 Cal 6-250ng	6	✓	250.0	204.7	81.9
SP p1 Cal 7-500ng	7	✗	500.0	297.2	59.4
SP p1 Cal 8-1000ng	8	✗	1000.0	450.7	45.1



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4



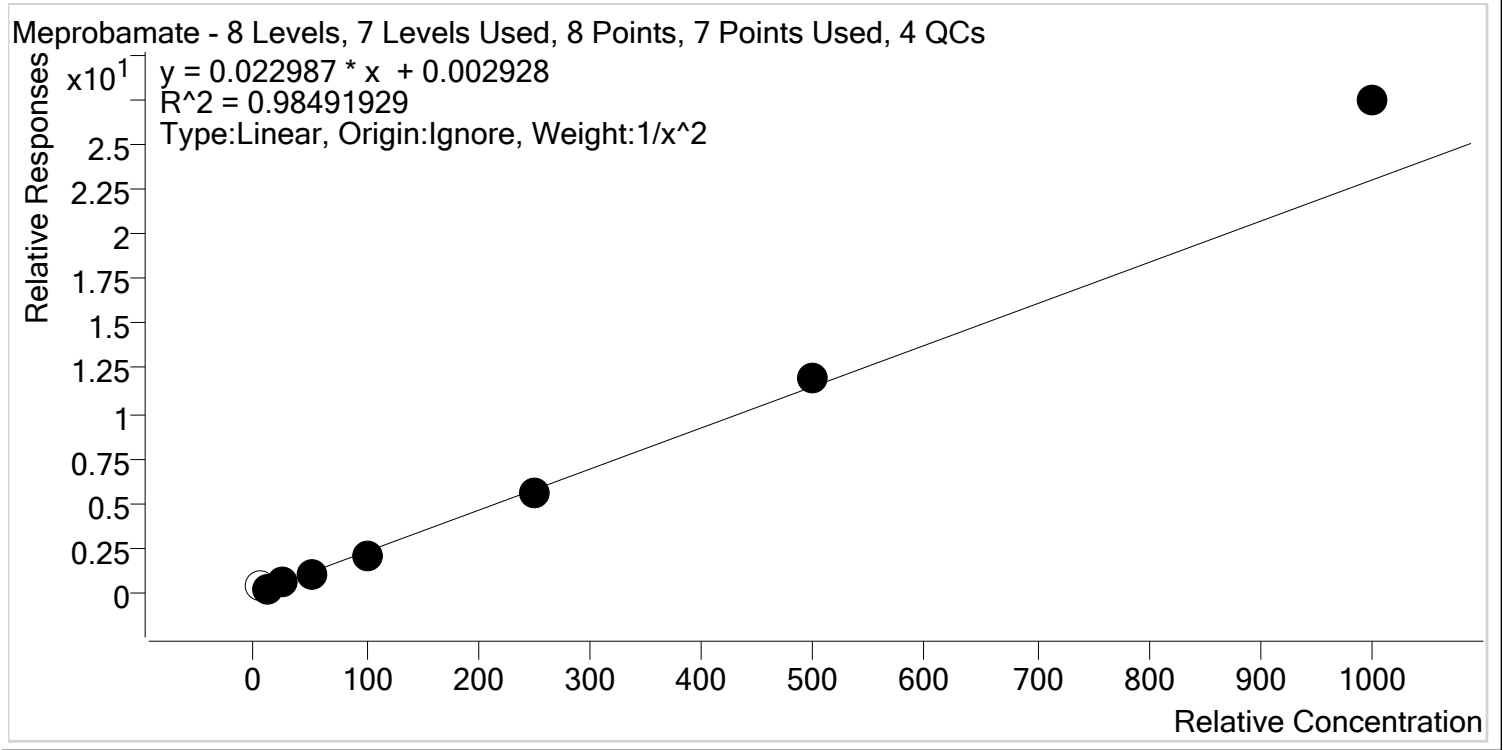
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	x	5.0	6.9	138.1
SP p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
SP p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
SP p1 Cal 4-50ng	4	✓	50.0	47.9	95.7
SP p1 Cal 5-100ng	5	✓	100.0	87.6	87.6
SP p1 Cal 6-250ng	6	✓	250.0	235.4	94.2
SP p1 Cal 7-500ng	7	✓	500.0	519.3	103.9
SP p1 Cal 8-1000ng	8	✓	1000.0	1162.5	116.3





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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7



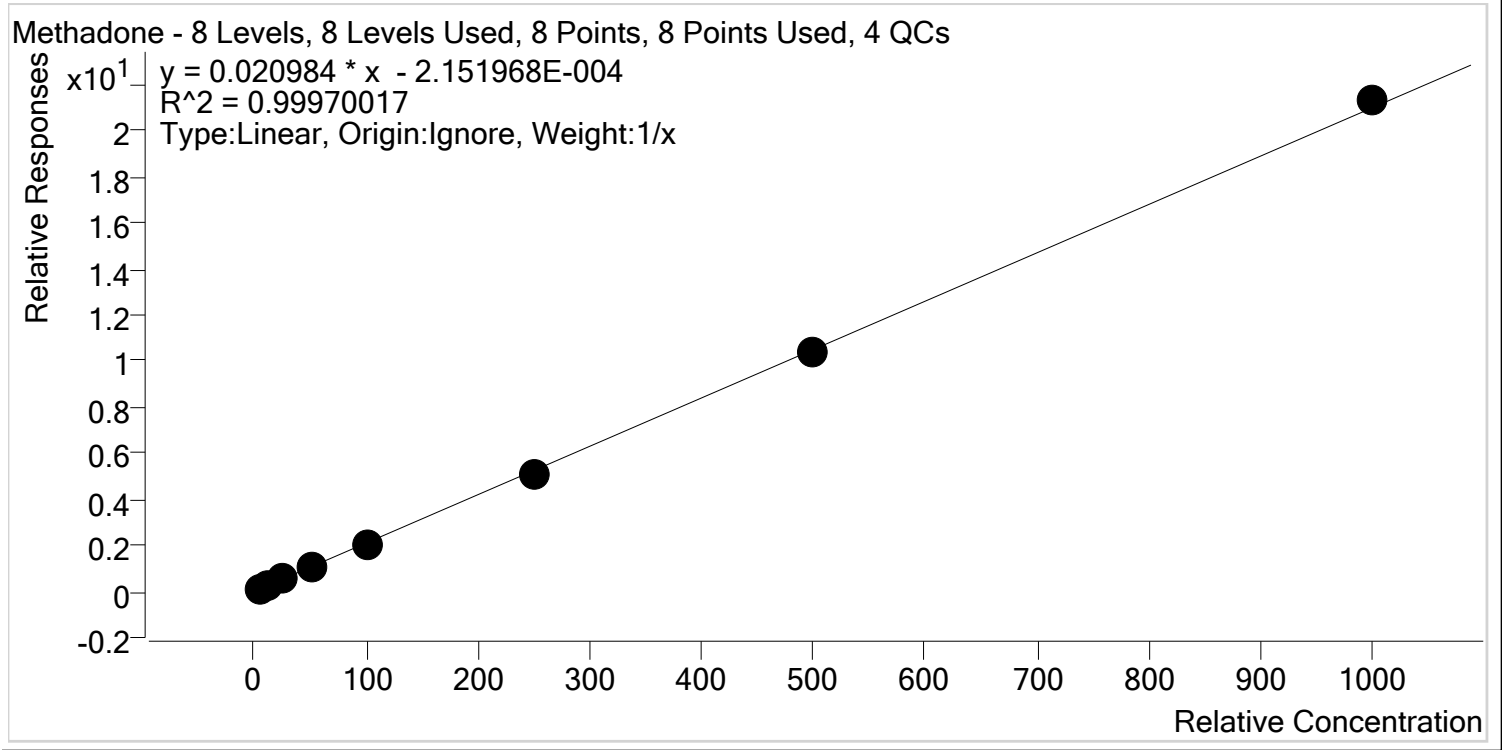
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	x	5.0	15.2	304.4
SP p1 Cal 2- 10ng	2	✓	10.0	10.6	106.1
SP p1 Cal 3 -25ng	3	✓	25.0	22.7	90.6
SP p1 Cal 4-50ng	4	✓	50.0	46.0	92.0
SP p1 Cal 5-100ng	5	✓	100.0	90.8	90.8
SP p1 Cal 6-250ng	6	✓	250.0	241.4	96.6
SP p1 Cal 7-500ng	7	✓	500.0	523.4	104.7
SP p1 Cal 8-1000ng	8	✓	1000.0	1192.0	119.2

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methadone **Internal Standard** Methadone-D9

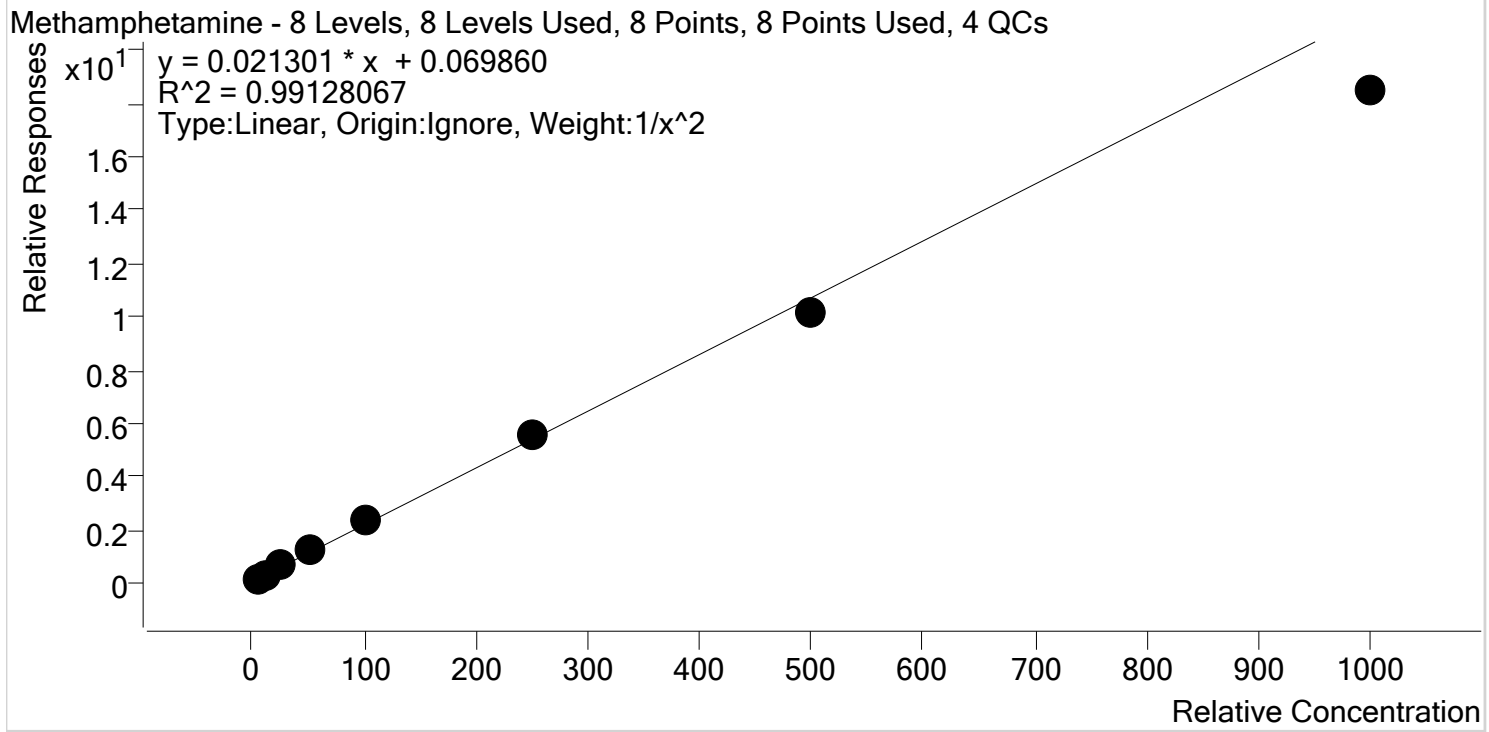


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.5	109.5
SP p1 Cal 2- 10ng	2	✓	10.0	9.8	98.5
SP p1 Cal 3 -25ng	3	✓	25.0	24.3	97.4
SP p1 Cal 4-50ng	4	✓	50.0	49.2	98.3
SP p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
SP p1 Cal 6-250ng	6	✓	250.0	244.8	97.9
SP p1 Cal 7-500ng	7	✓	500.0	493.1	98.6
SP p1 Cal 8-1000ng	8	✓	1000.0	1014.9	101.5



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11

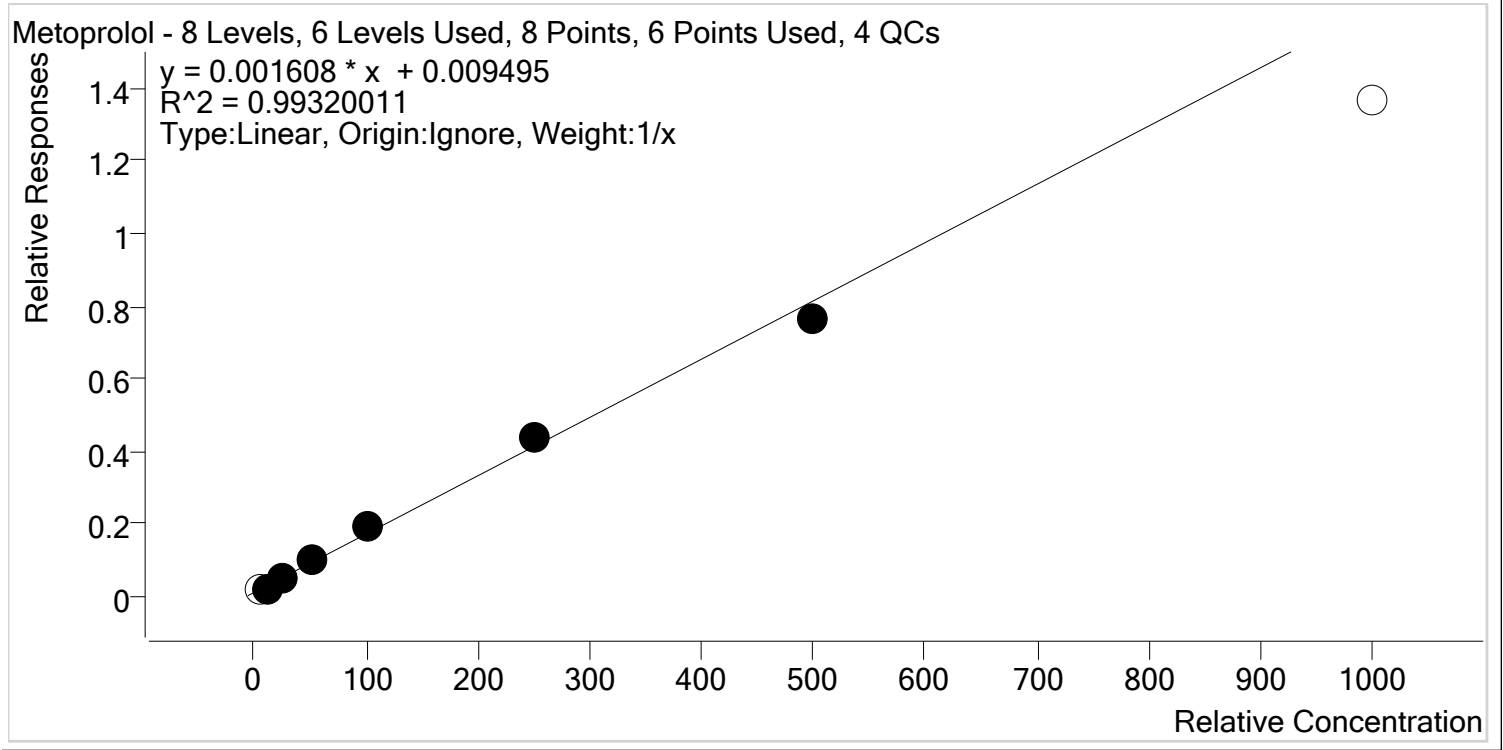


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.1	101.0
SP p1 Cal 2- 10ng	2	✓	10.0	9.3	92.6
SP p1 Cal 3 -25ng	3	✓	25.0	26.9	107.5
SP p1 Cal 4-50ng	4	✓	50.0	54.9	109.9
SP p1 Cal 5-100ng	5	✓	100.0	105.5	105.5
SP p1 Cal 6-250ng	6	✓	250.0	257.1	102.8
SP p1 Cal 7-500ng	7	✓	500.0	471.2	94.2
SP p1 Cal 8-1000ng	8	✓	1000.0	864.9	86.5



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

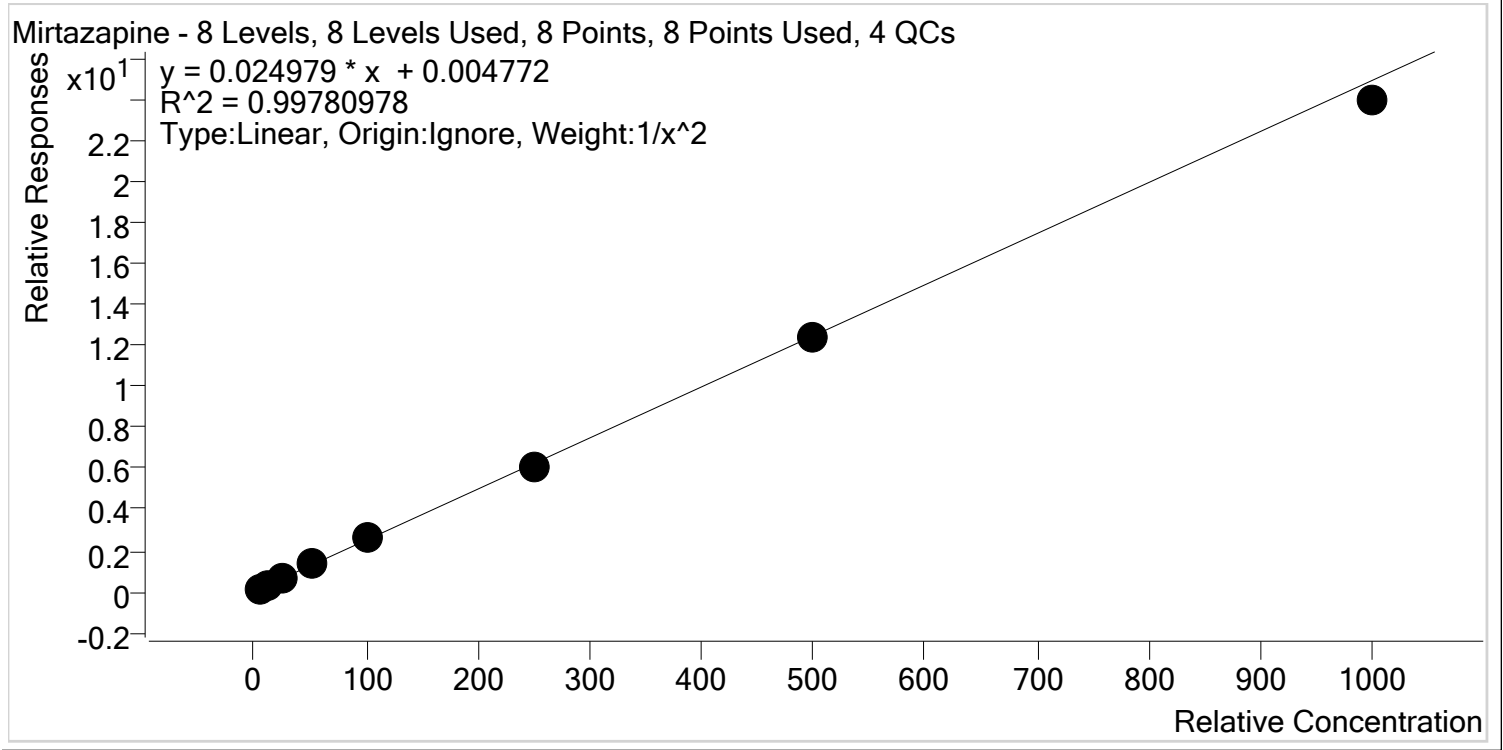


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	x	5.0	6.1	122.0
SP p1 Cal 2- 10ng	2	✓	10.0	7.7	76.6
SP p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
SP p1 Cal 4-50ng	4	✓	50.0	55.3	110.6
SP p1 Cal 5-100ng	5	✓	100.0	111.7	111.7
SP p1 Cal 6-250ng	6	✓	250.0	264.3	105.7
SP p1 Cal 7-500ng	7	✓	500.0	470.8	94.2
SP p1 Cal 8-1000ng	8	x	1000.0	843.7	84.4



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8

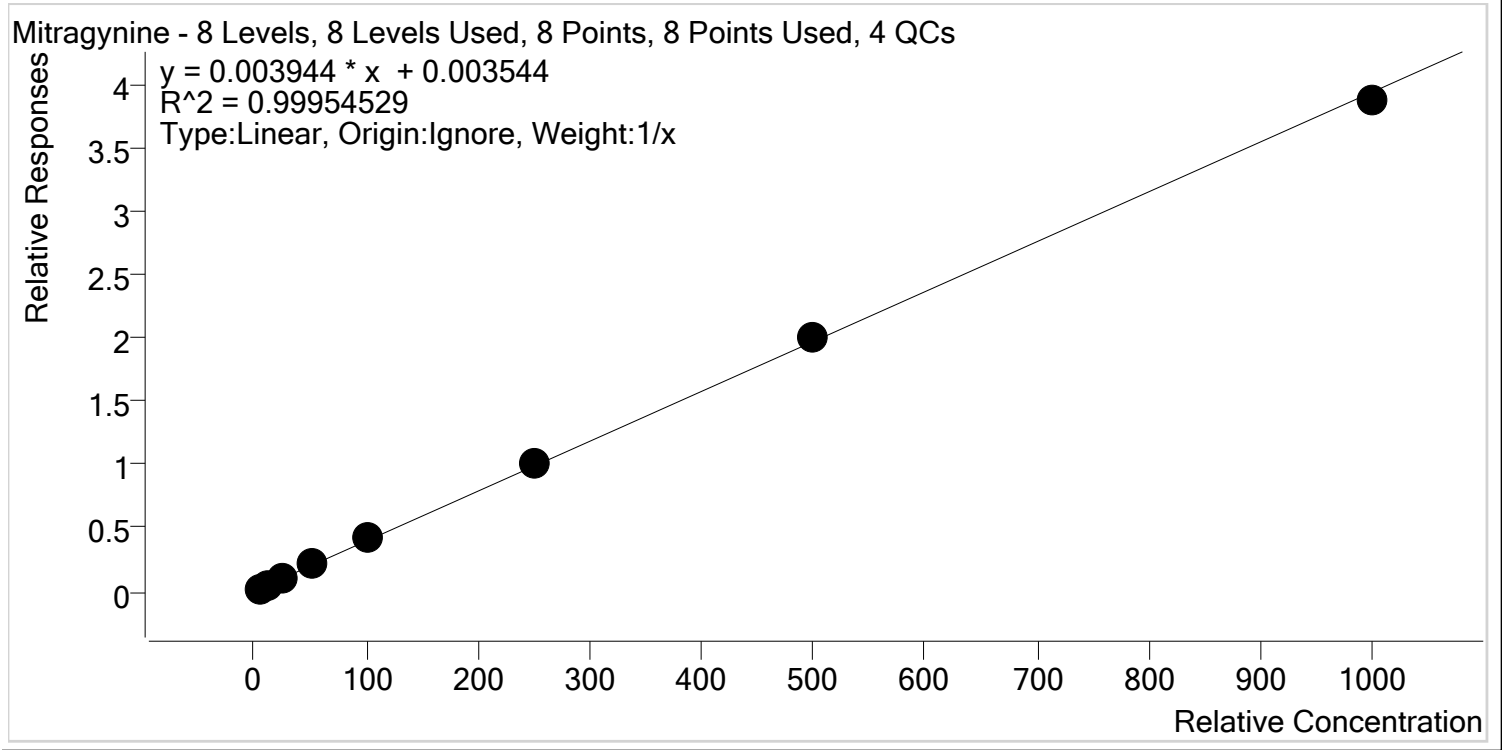


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
SP p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
SP p1 Cal 3 -25ng	3	✓	25.0	23.9	95.5
SP p1 Cal 4-50ng	4	✓	50.0	51.6	103.1
SP p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
SP p1 Cal 6-250ng	6	✓	250.0	245.2	98.1
SP p1 Cal 7-500ng	7	✓	500.0	493.7	98.7
SP p1 Cal 8-1000ng	8	✓	1000.0	960.5	96.1



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Mitragynine **Internal Standard** Methadone-D9

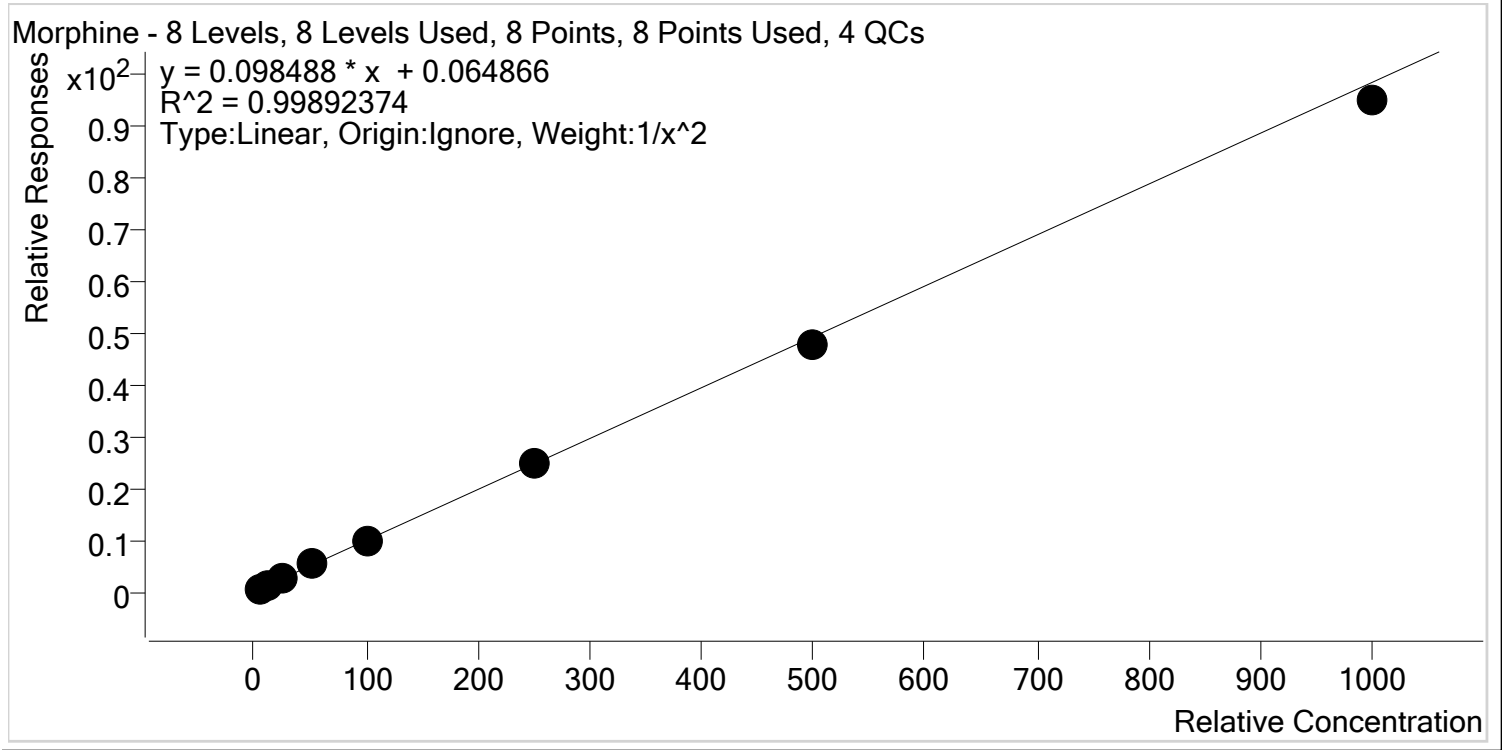


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.5	89.5
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
SP p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
SP p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
SP p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
SP p1 Cal 6-250ng	6	✓	250.0	255.3	102.1
SP p1 Cal 7-500ng	7	✓	500.0	505.9	101.2
SP p1 Cal 8-1000ng	8	✓	1000.0	983.0	98.3



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6

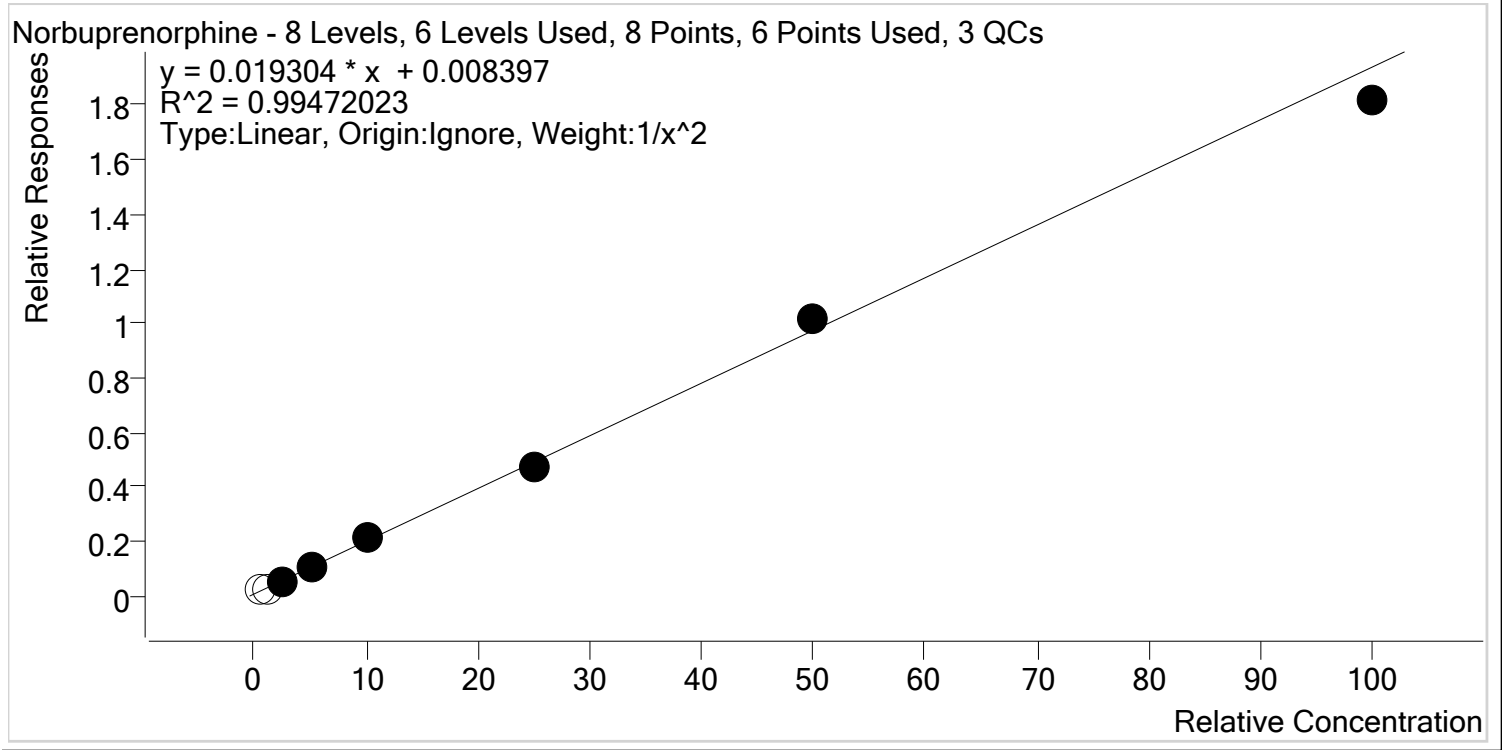


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
SP p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
SP p1 Cal 3 -25ng	3	✓	25.0	25.9	103.8
SP p1 Cal 4-50ng	4	✓	50.0	52.0	104.1
SP p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
SP p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
SP p1 Cal 7-500ng	7	✓	500.0	483.4	96.7
SP p1 Cal 8-1000ng	8	✓	1000.0	964.2	96.4



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	x	0.5	1.0	209.5
SP p1 Cal 2- 10ng	2	x	1.0	1.0	96.9
SP p1 Cal 3 -25ng	3	✓	2.5	2.4	95.8
SP p1 Cal 4-50ng	4	✓	5.0	5.4	107.2
SP p1 Cal 5-100ng	5	✓	10.0	10.5	104.5
SP p1 Cal 6-250ng	6	✓	25.0	23.8	95.0
SP p1 Cal 7-500ng	7	✓	50.0	52.0	103.9
SP p1 Cal 8-1000ng	8	✓	100.0	93.6	93.6

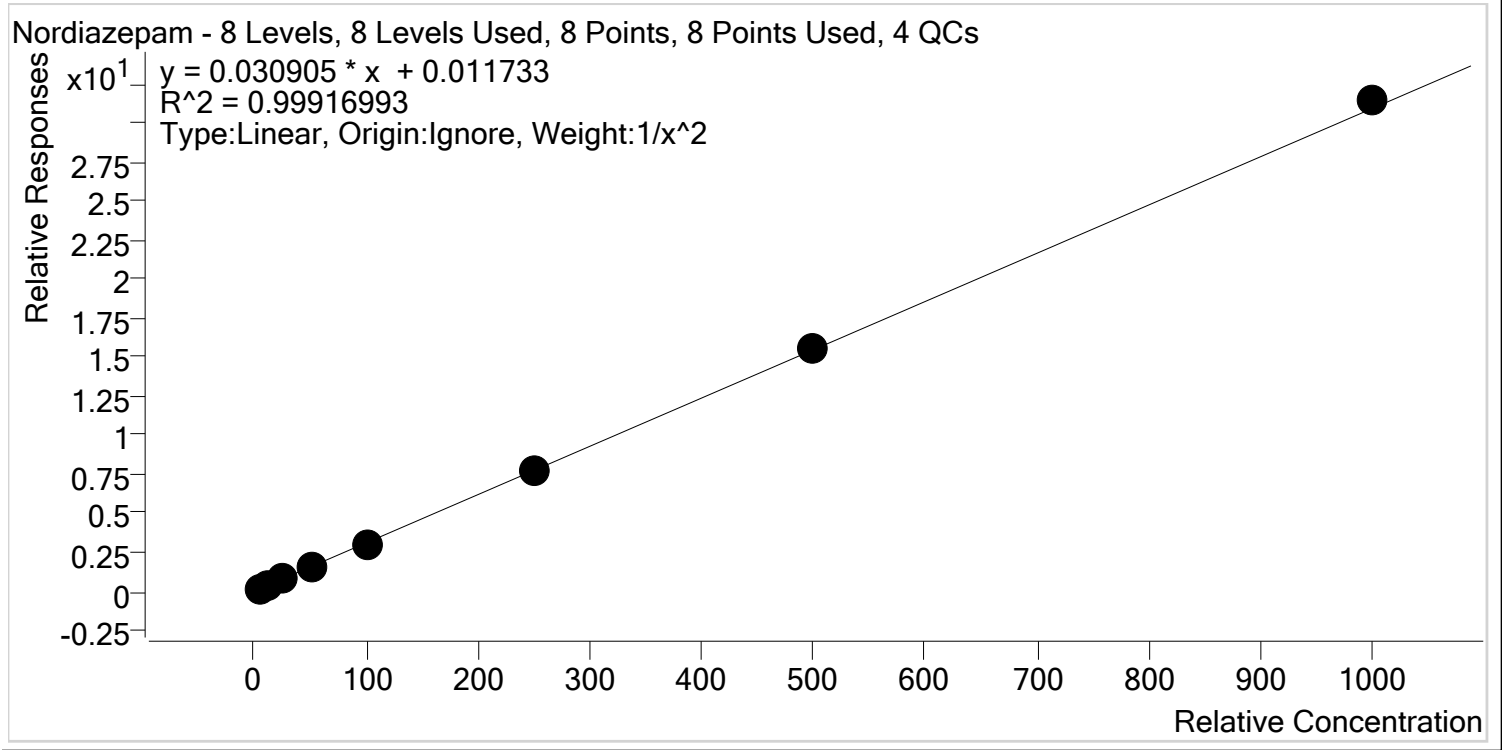


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Nordiazepam **Internal Standard** Nordiazepam-D5

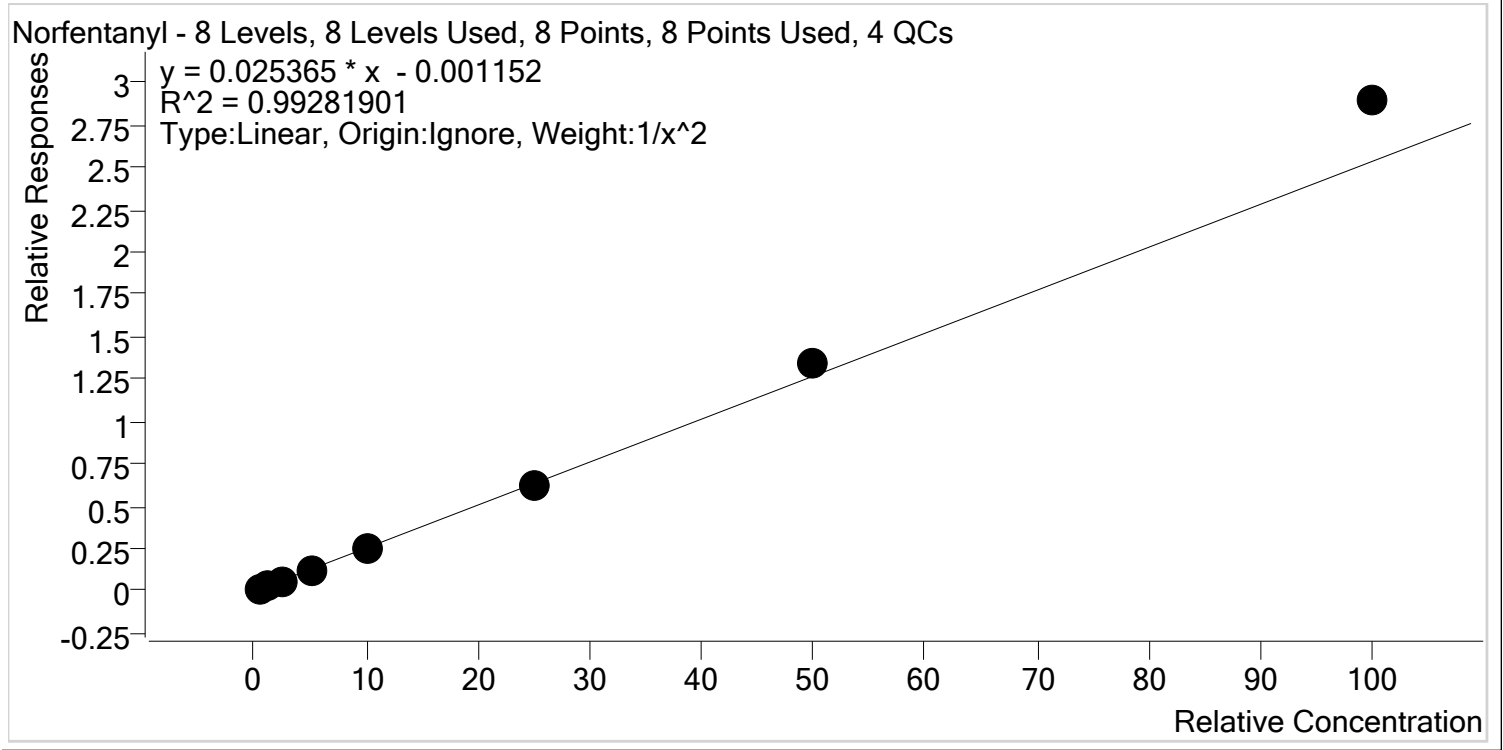


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
SP p1 Cal 2- 10ng	2	✓	10.0	10.3	103.4
SP p1 Cal 3 -25ng	3	✓	25.0	23.7	95.0
SP p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
SP p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
SP p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
SP p1 Cal 7-500ng	7	✓	500.0	500.6	100.1
SP p1 Cal 8-1000ng	8	✓	1000.0	1016.4	101.6



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	0.5	0.5	104.0
SP p1 Cal 2- 10ng	2	✓	1.0	1.0	96.5
SP p1 Cal 3 -25ng	3	✓	2.5	2.3	92.4
SP p1 Cal 4-50ng	4	✓	5.0	4.7	94.3
SP p1 Cal 5-100ng	5	✓	10.0	9.5	94.7
SP p1 Cal 6-250ng	6	✓	25.0	24.6	98.3
SP p1 Cal 7-500ng	7	✓	50.0	52.8	105.6
SP p1 Cal 8-1000ng	8	✓	100.0	114.2	114.2

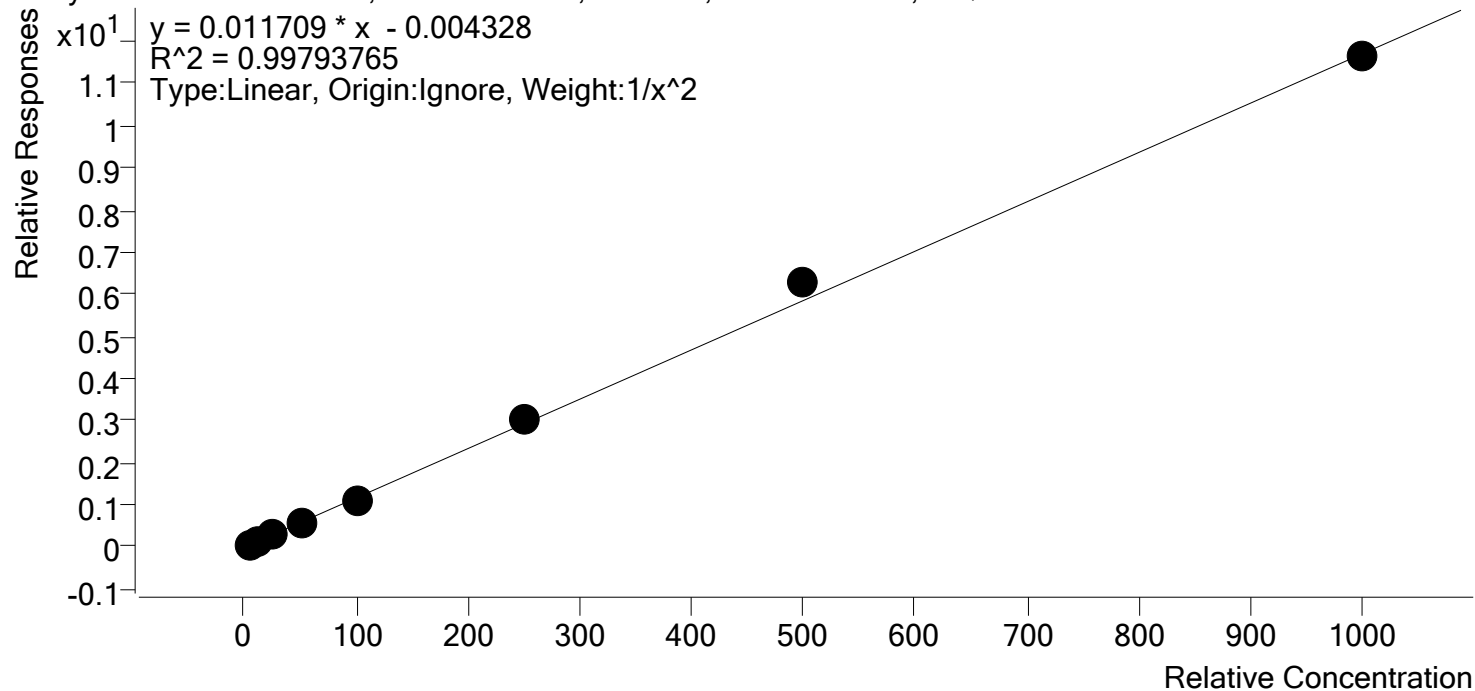
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
SP p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
SP p1 Cal 3 -25ng	3	✓	25.0	23.7	94.8
SP p1 Cal 4-50ng	4	✓	50.0	49.3	98.5
SP p1 Cal 5-100ng	5	✓	100.0	96.4	96.4
SP p1 Cal 6-250ng	6	✓	250.0	256.6	102.7
SP p1 Cal 7-500ng	7	✓	500.0	537.2	107.4
SP p1 Cal 8-1000ng	8	✓	1000.0	994.5	99.4

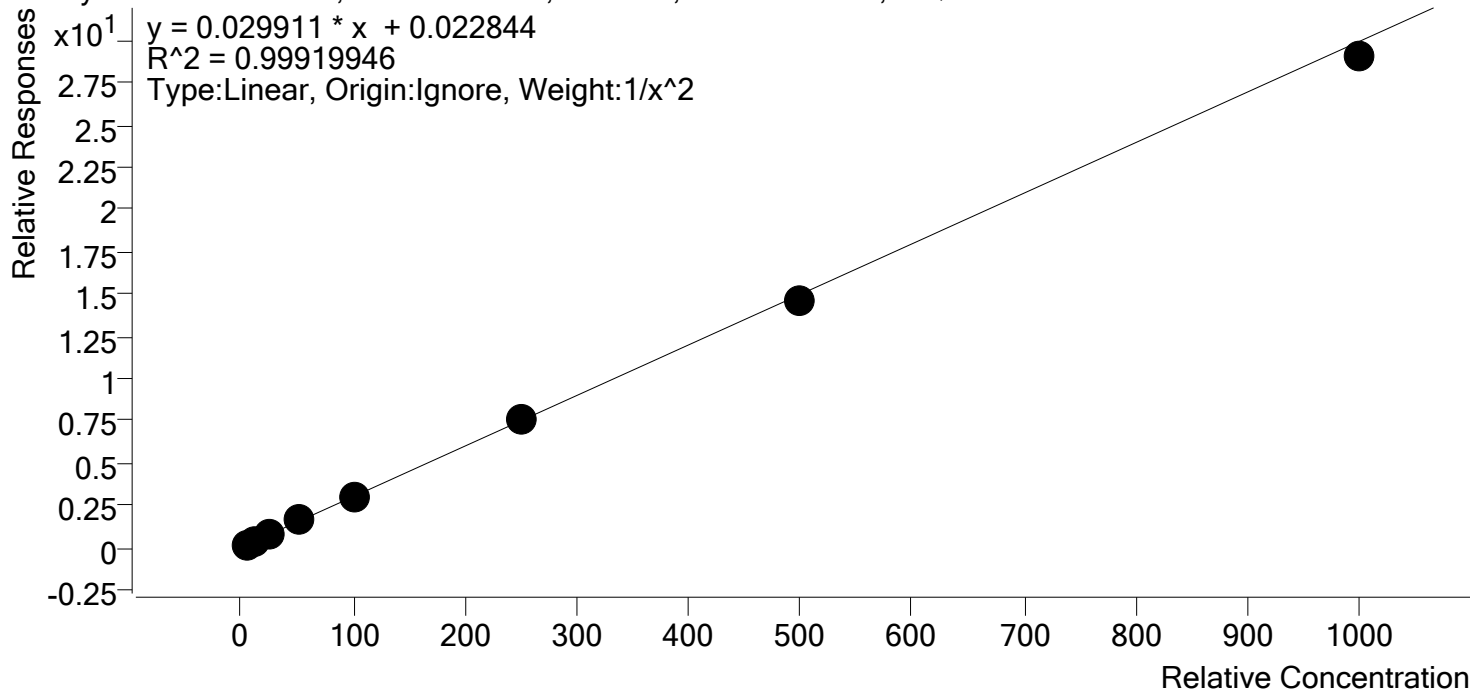
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3

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



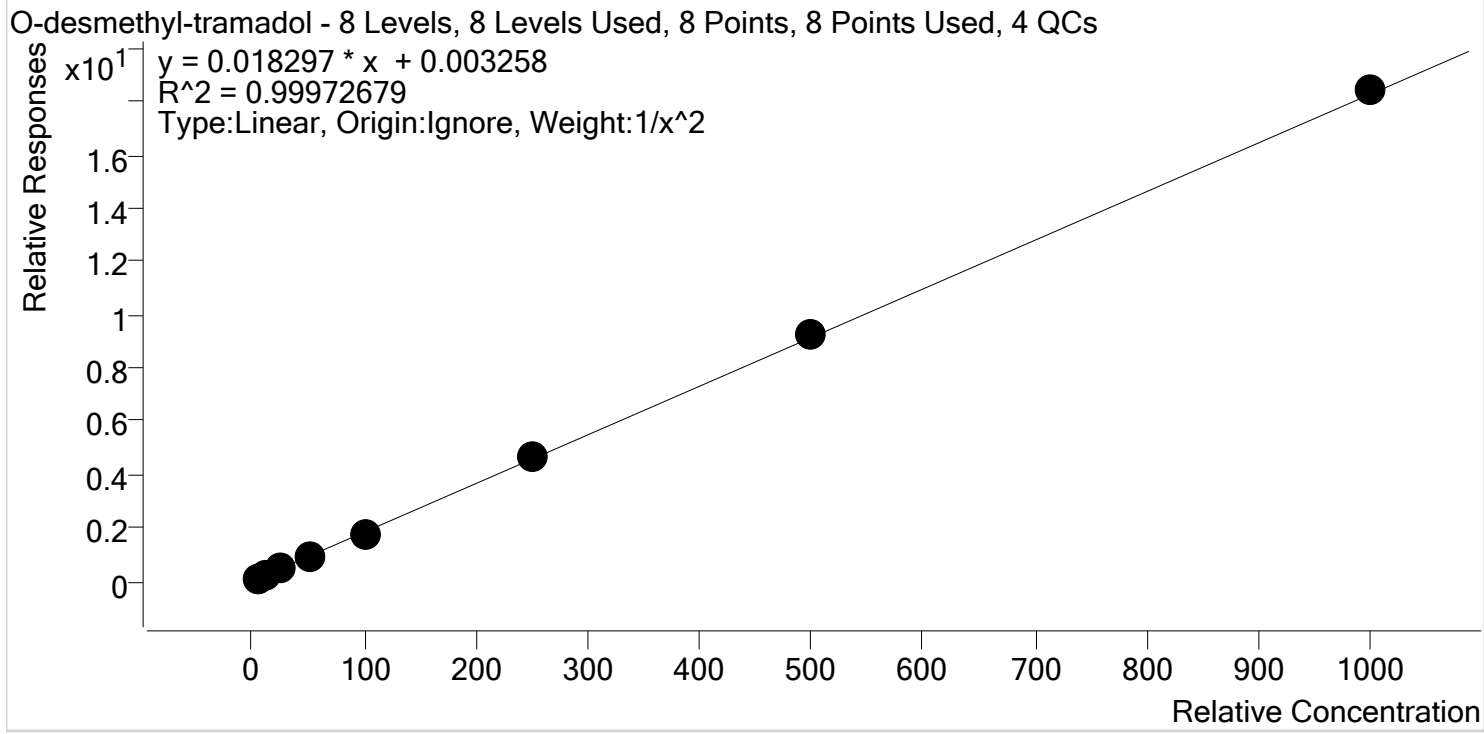
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
SP p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
SP p1 Cal 4-50ng	4	✓	50.0	52.2	104.4
SP p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
SP p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
SP p1 Cal 7-500ng	7	✓	500.0	484.8	97.0
SP p1 Cal 8-1000ng	8	✓	1000.0	970.2	97.0

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

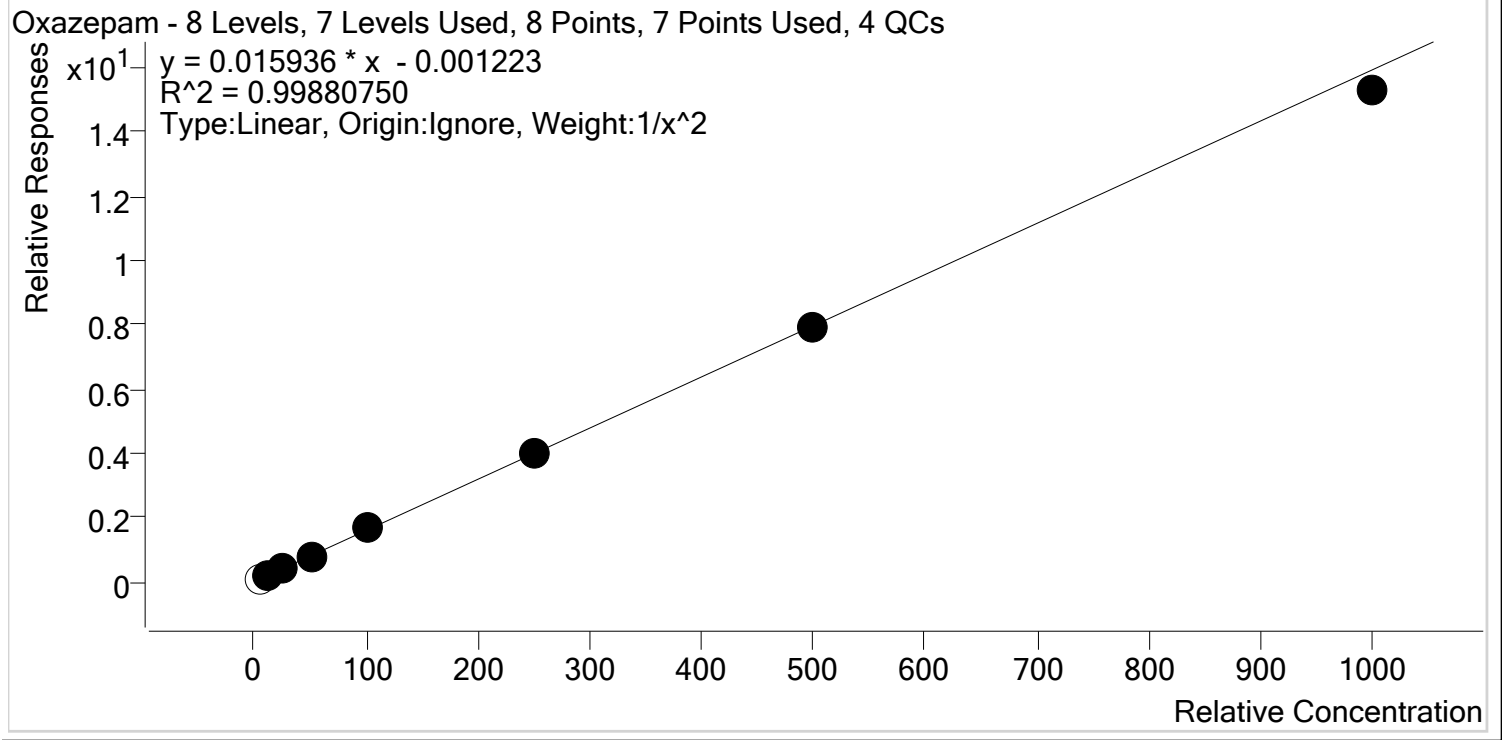


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
SP p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
SP p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
SP p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
SP p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
SP p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
SP p1 Cal 7-500ng	7	✓	500.0	507.2	101.4
SP p1 Cal 8-1000ng	8	✓	1000.0	1008.4	100.8



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5



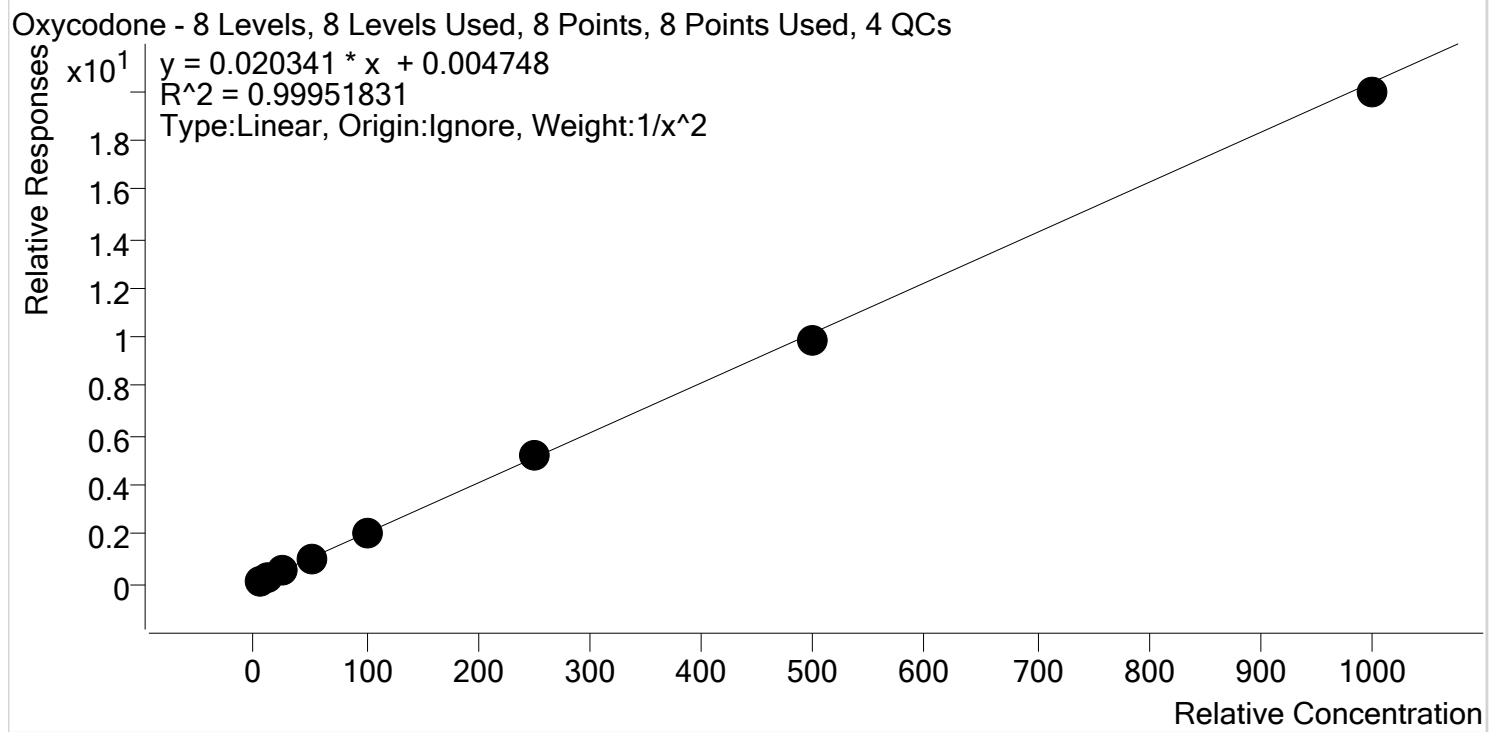
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	x	5.0	5.6	112.3
SP p1 Cal 2- 10ng	2	✓	10.0	9.8	98.0
SP p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
SP p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
SP p1 Cal 5-100ng	5	✓	100.0	102.6	102.6
SP p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
SP p1 Cal 7-500ng	7	✓	500.0	498.8	99.8
SP p1 Cal 8-1000ng	8	✓	1000.0	959.6	96.0

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

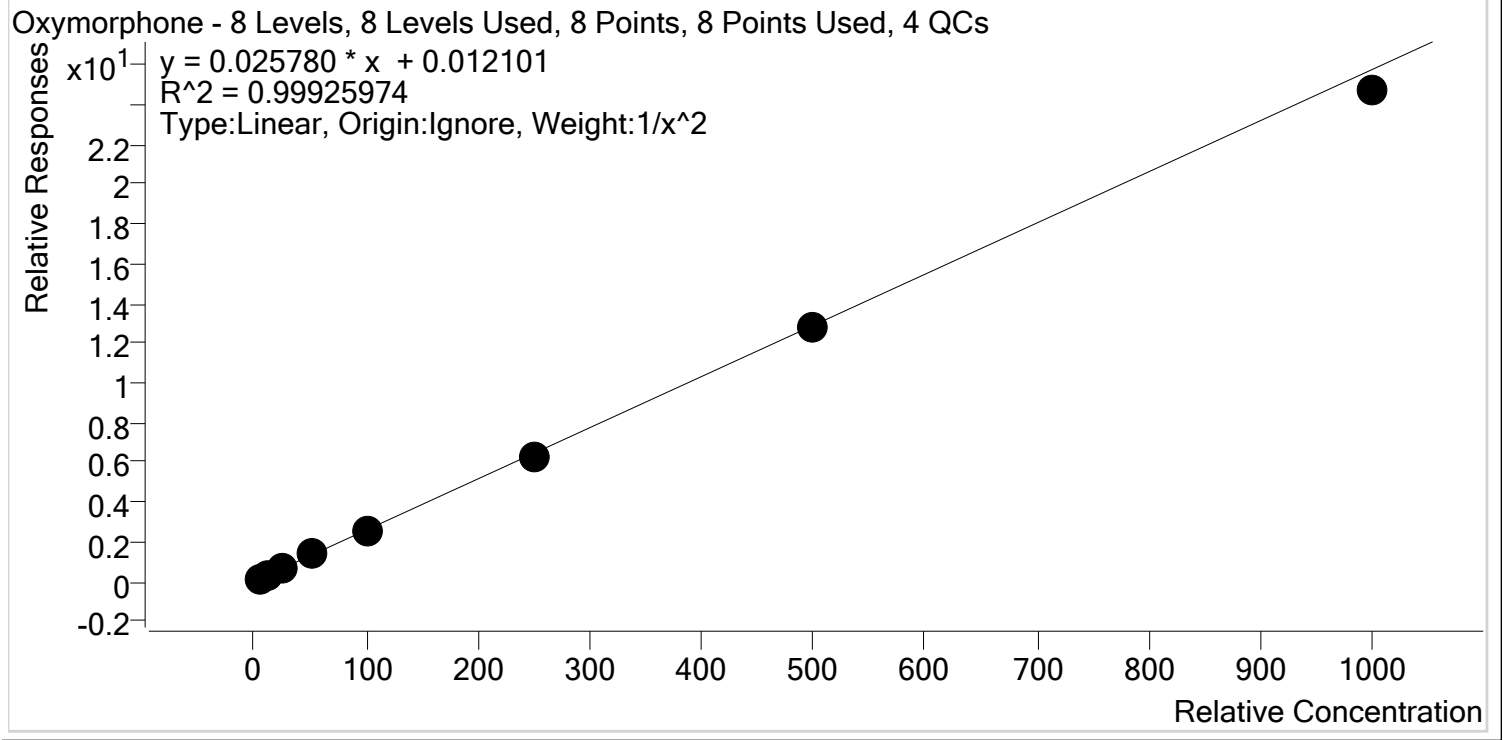


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
SP p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
SP p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
SP p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
SP p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
SP p1 Cal 6-250ng	6	✓	250.0	252.1	100.8
SP p1 Cal 7-500ng	7	✓	500.0	486.4	97.3
SP p1 Cal 8-1000ng	8	✓	1000.0	979.6	98.0



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3



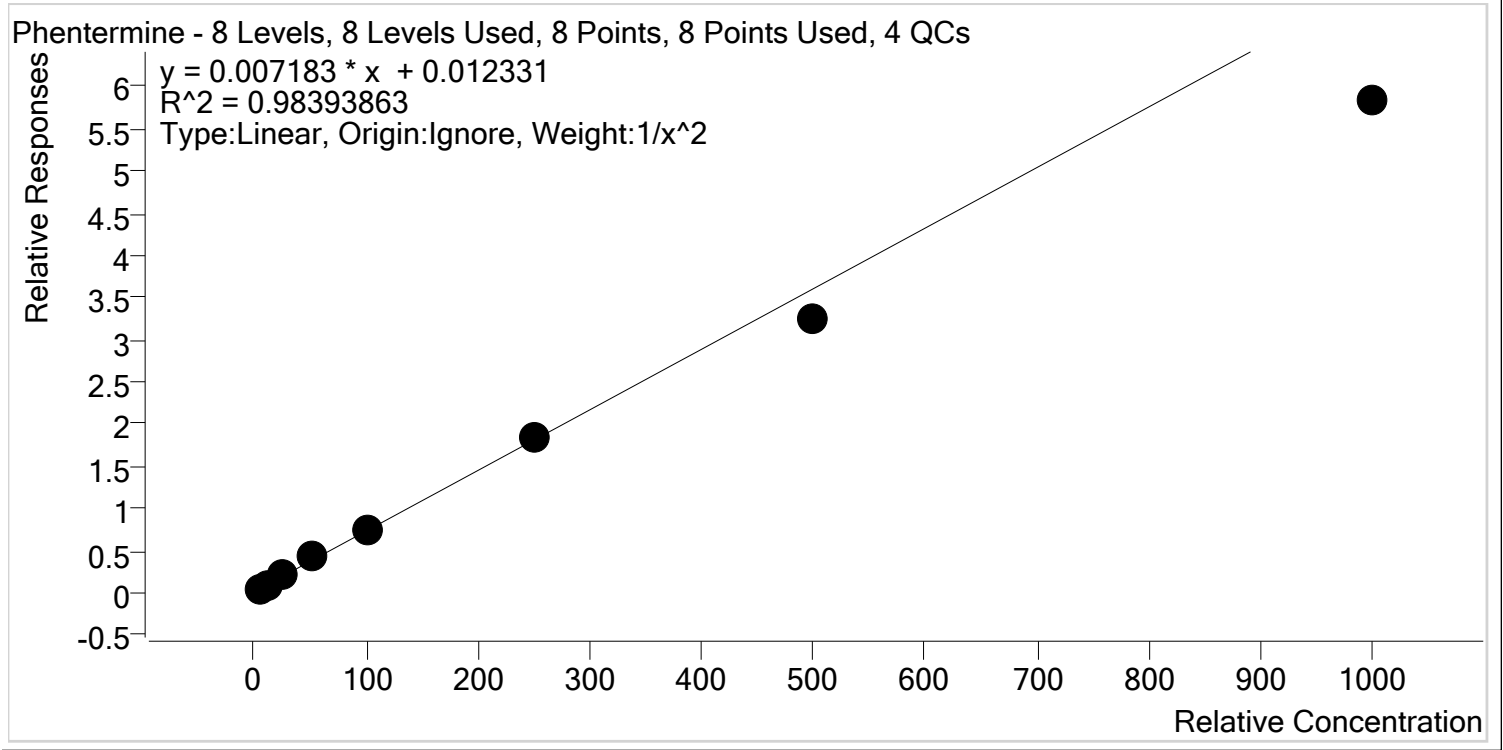
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
SP p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
SP p1 Cal 3 -25ng	3	✓	25.0	25.5	101.9
SP p1 Cal 4-50ng	4	✓	50.0	51.6	103.3
SP p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
SP p1 Cal 6-250ng	6	✓	250.0	245.9	98.4
SP p1 Cal 7-500ng	7	✓	500.0	498.7	99.7
SP p1 Cal 8-1000ng	8	✓	1000.0	958.8	95.9





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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Phentermine **Internal Standard** Phentermine-D5

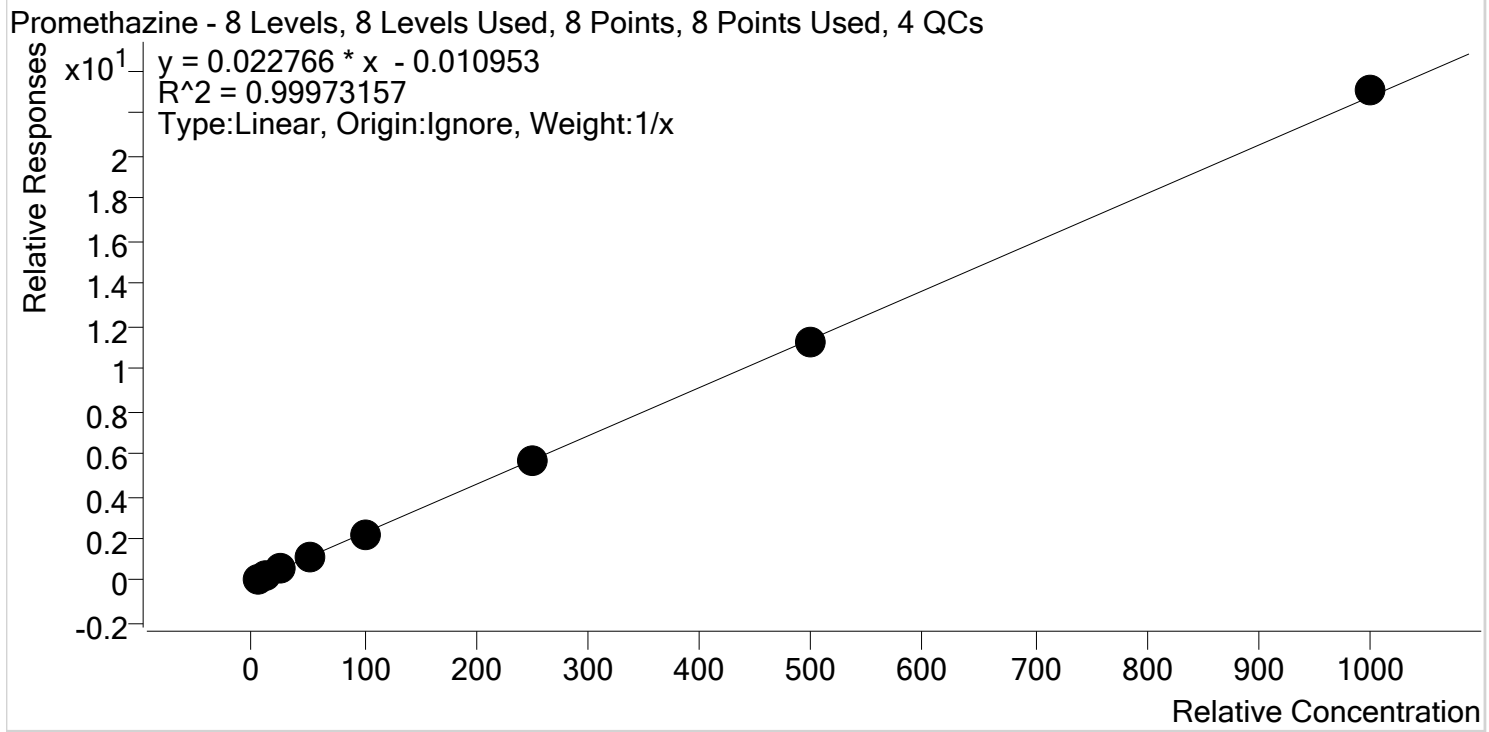


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.7	94.0
SP p1 Cal 2- 10ng	2	✓	10.0	10.5	105.1
SP p1 Cal 3 -25ng	3	✓	25.0	27.3	109.3
SP p1 Cal 4-50ng	4	✓	50.0	57.8	115.5
SP p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
SP p1 Cal 6-250ng	6	✓	250.0	253.3	101.3
SP p1 Cal 7-500ng	7	✓	500.0	450.5	90.1
SP p1 Cal 8-1000ng	8	✓	1000.0	810.6	81.1

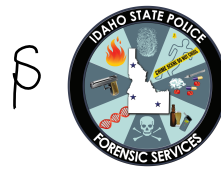


# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Promethazine **Internal Standard** Promethazine-D3

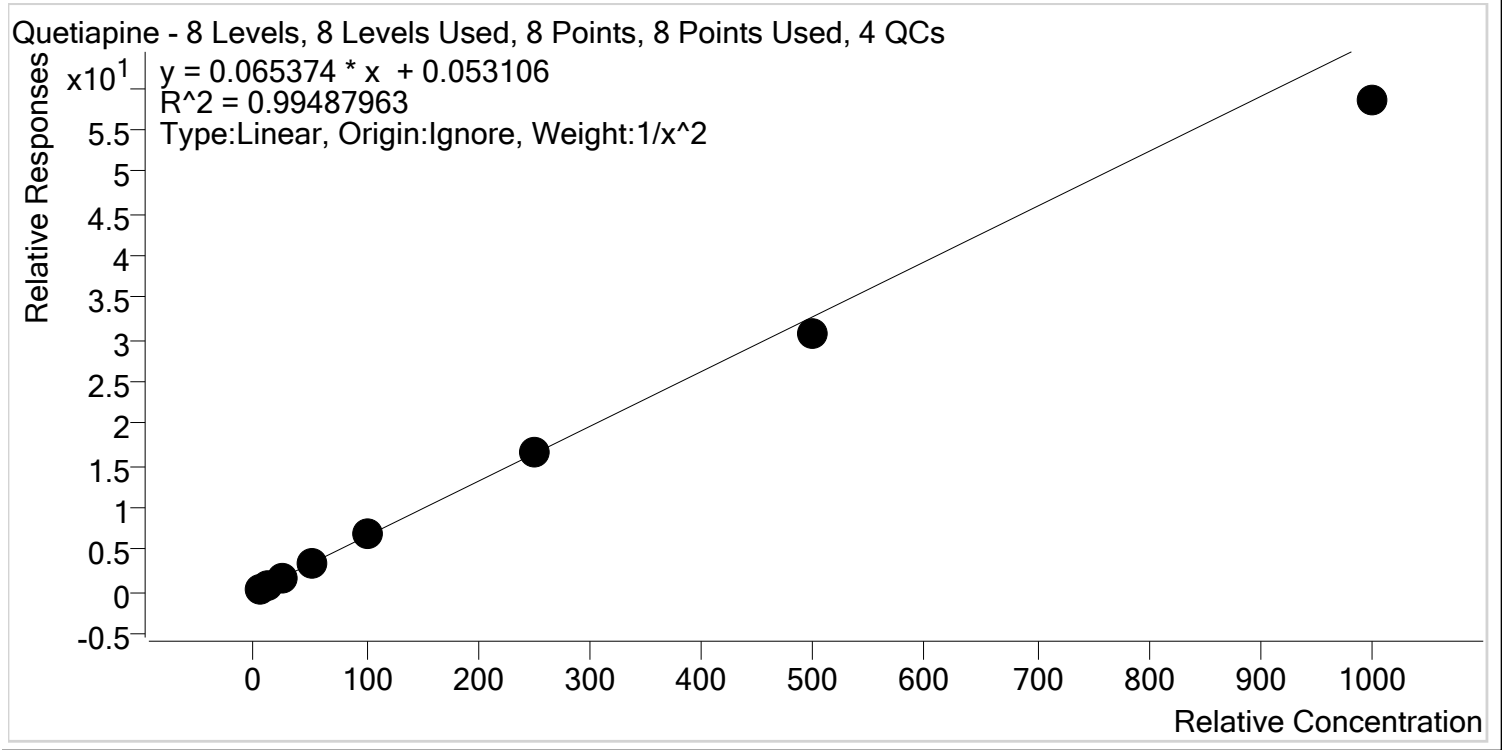


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.5	109.5
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
SP p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
SP p1 Cal 4-50ng	4	✓	50.0	48.8	97.6
SP p1 Cal 5-100ng	5	✓	100.0	96.4	96.4
SP p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
SP p1 Cal 7-500ng	7	✓	500.0	494.1	98.8
SP p1 Cal 8-1000ng	8	✓	1000.0	1012.8	101.3



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

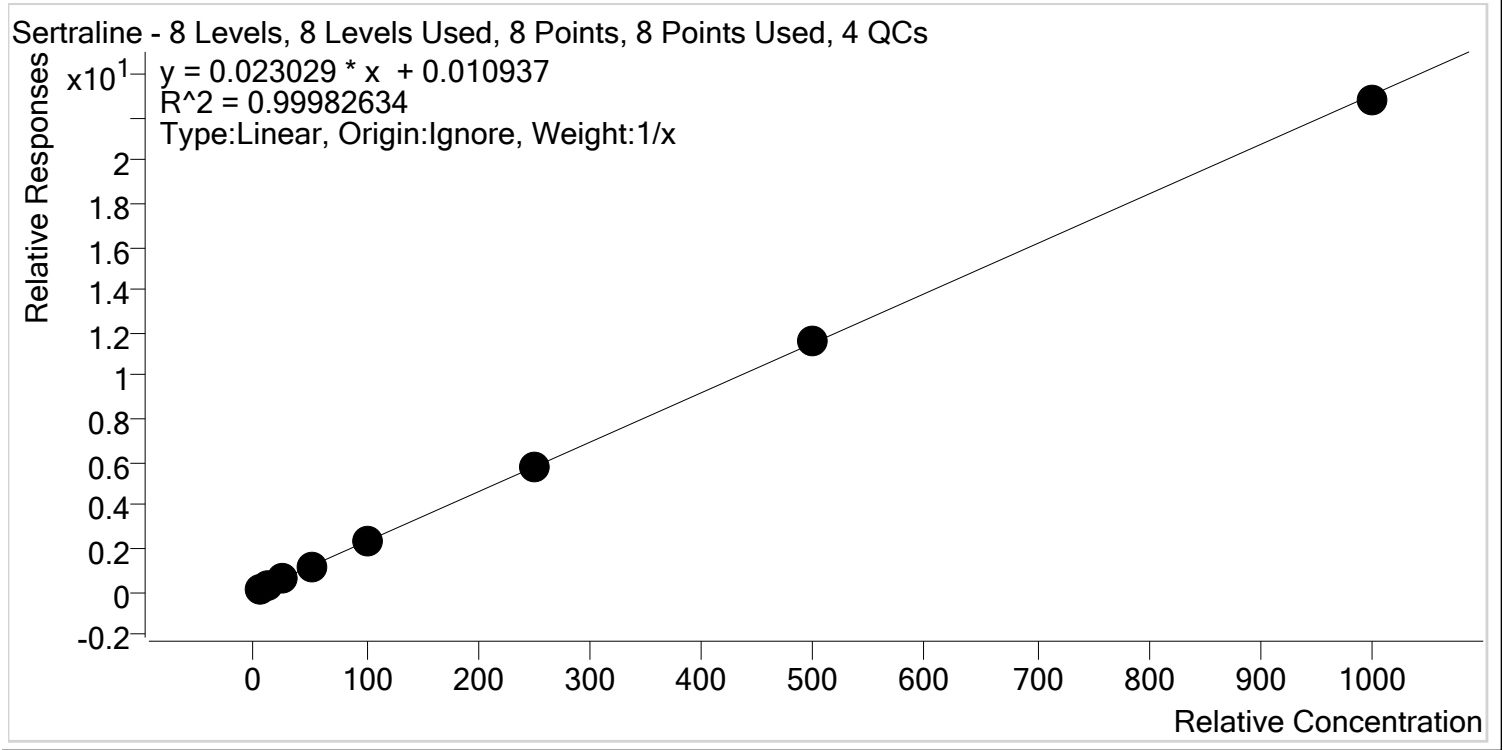


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
SP p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
SP p1 Cal 3 -25ng	3	✓	25.0	26.5	106.0
SP p1 Cal 4-50ng	4	✓	50.0	53.6	107.2
SP p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
SP p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
SP p1 Cal 7-500ng	7	✓	500.0	471.6	94.3
SP p1 Cal 8-1000ng	8	✓	1000.0	892.7	89.3



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3



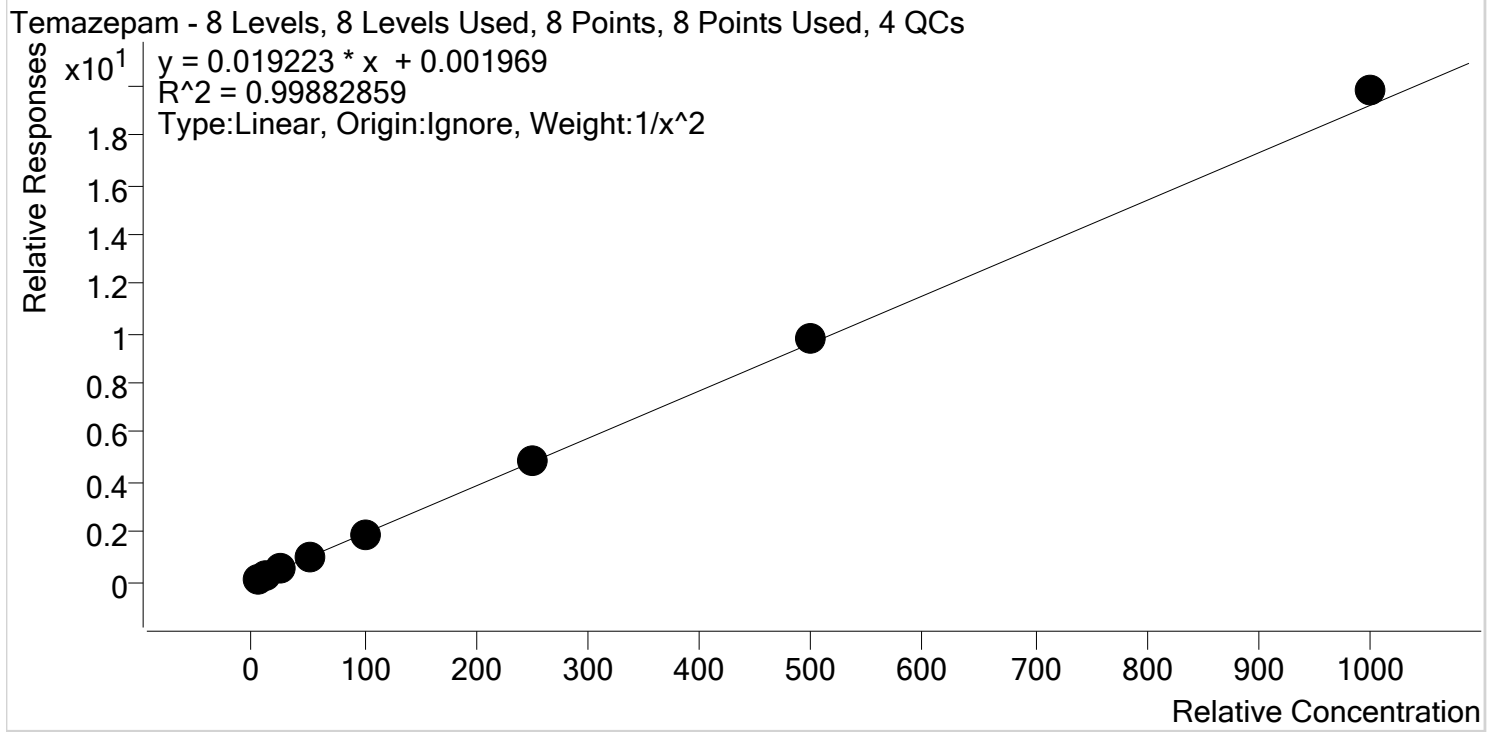
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
SP p1 Cal 2- 10ng	2	✓	10.0	9.7	97.3
SP p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
SP p1 Cal 4-50ng	4	✓	50.0	50.9	101.9
SP p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
SP p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
SP p1 Cal 7-500ng	7	✓	500.0	506.7	101.3
SP p1 Cal 8-1000ng	8	✓	1000.0	988.5	98.9

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Temazepam **Internal Standard** Temazepam-D5

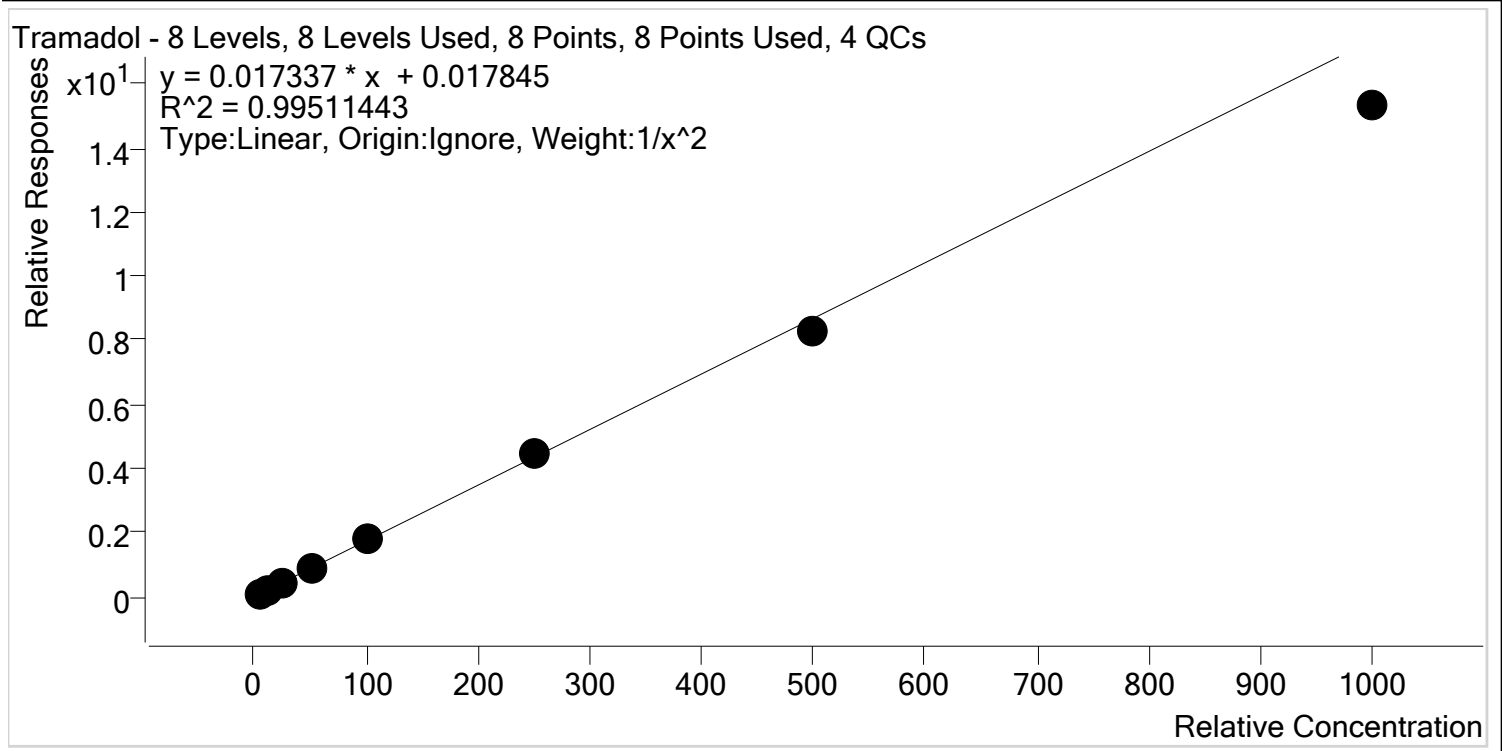


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.1	102.7
SP p1 Cal 2- 10ng	2	✓	10.0	9.6	96.4
SP p1 Cal 3 -25ng	3	✓	25.0	23.8	95.2
SP p1 Cal 4-50ng	4	✓	50.0	50.2	100.3
SP p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
SP p1 Cal 6-250ng	6	✓	250.0	252.8	101.1
SP p1 Cal 7-500ng	7	✓	500.0	511.8	102.4
SP p1 Cal 8-1000ng	8	✓	1000.0	1031.1	103.1



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3

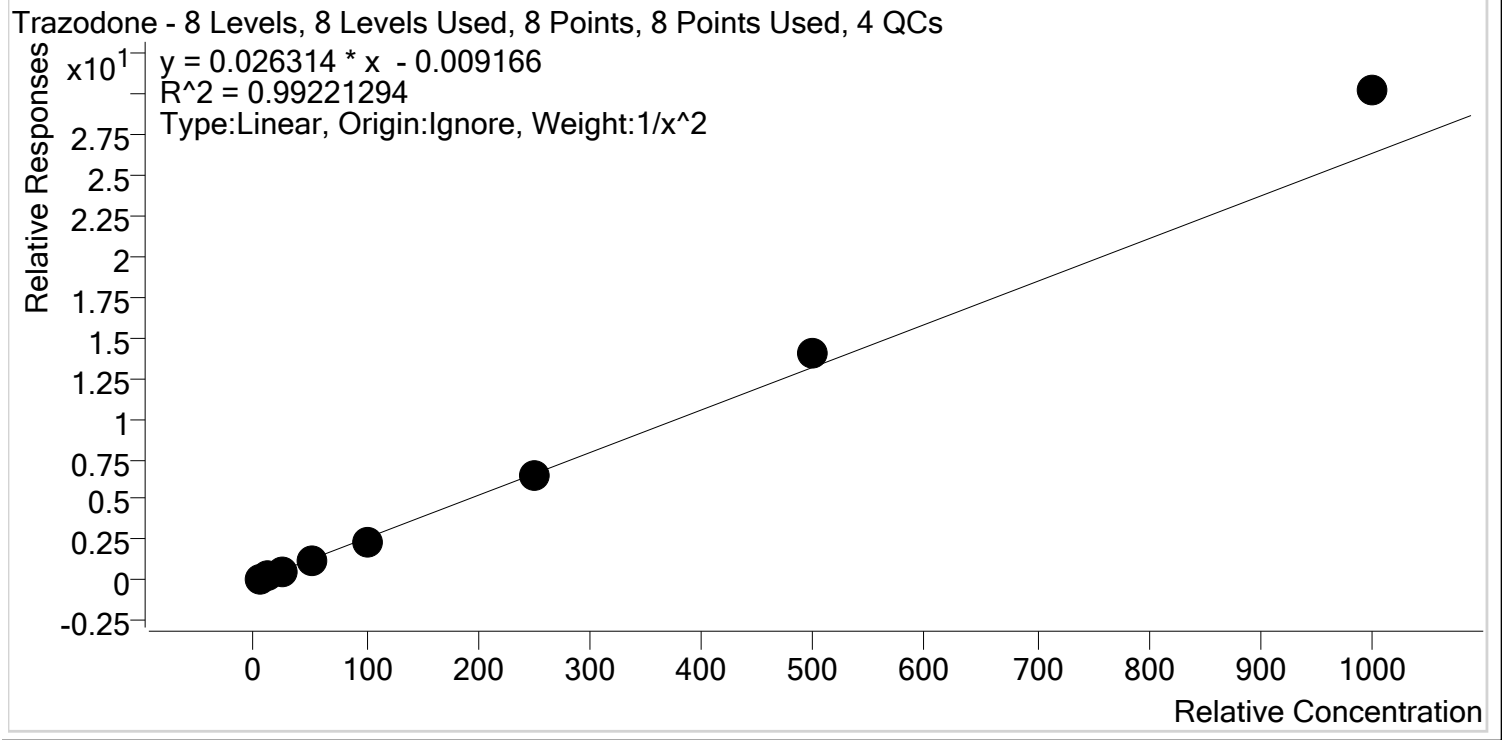


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
SP p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
SP p1 Cal 3 -25ng	3	✓	25.0	26.0	104.2
SP p1 Cal 4-50ng	4	✓	50.0	53.2	106.5
SP p1 Cal 5-100ng	5	✓	100.0	104.4	104.4
SP p1 Cal 6-250ng	6	✓	250.0	255.9	102.4
SP p1 Cal 7-500ng	7	✓	500.0	474.7	94.9
SP p1 Cal 8-1000ng	8	✓	1000.0	882.6	88.3



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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Trazodone **Internal Standard** Trazodone-D6



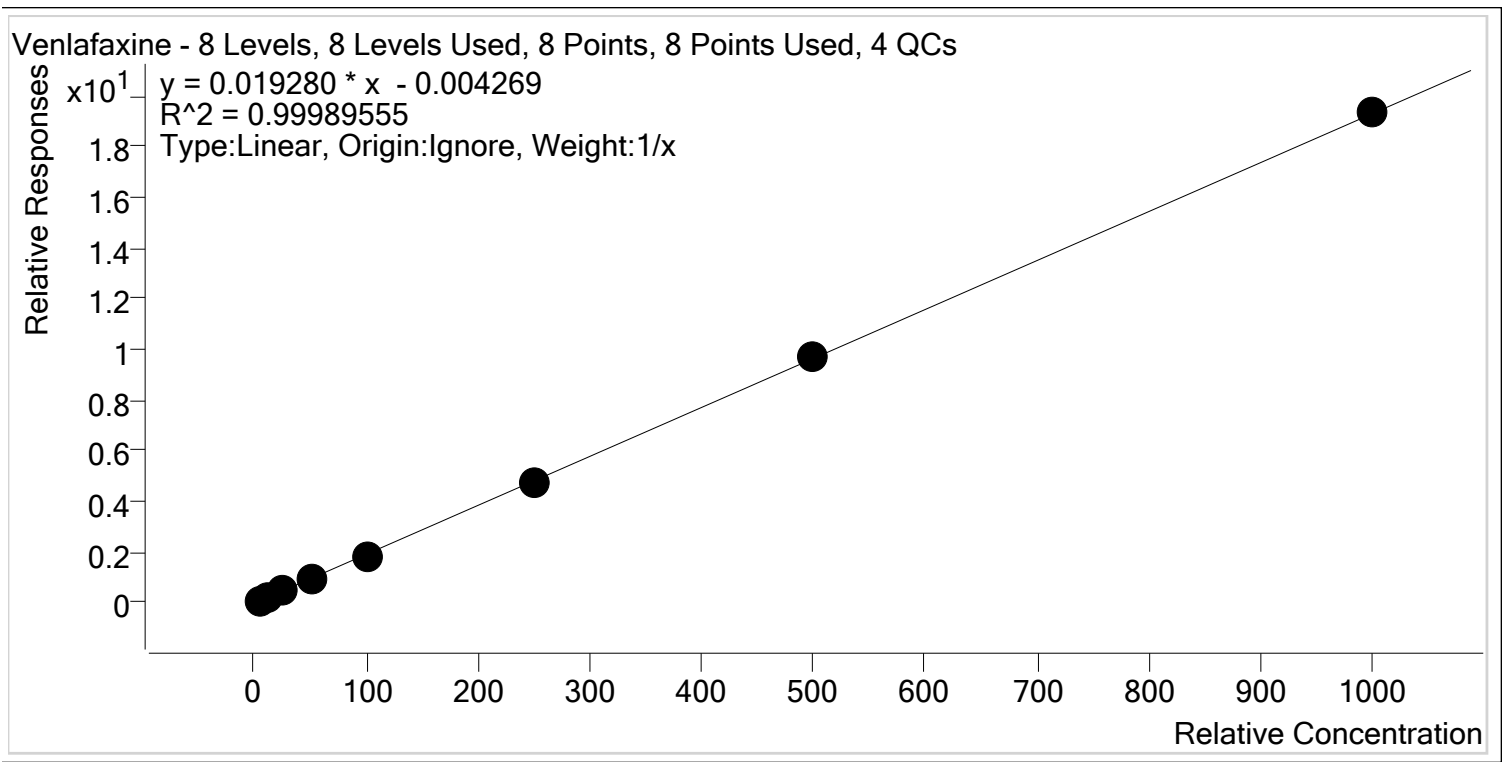
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.2	104.2
SP p1 Cal 2- 10ng	2	✓	10.0	9.6	95.6
SP p1 Cal 3 -25ng	3	✓	25.0	23.7	94.8
SP p1 Cal 4-50ng	4	✓	50.0	46.5	93.0
SP p1 Cal 5-100ng	5	✓	100.0	93.2	93.2
SP p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
SP p1 Cal 7-500ng	7	✓	500.0	530.6	106.1
SP p1 Cal 8-1000ng	8	✓	1000.0	1146.7	114.7

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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6



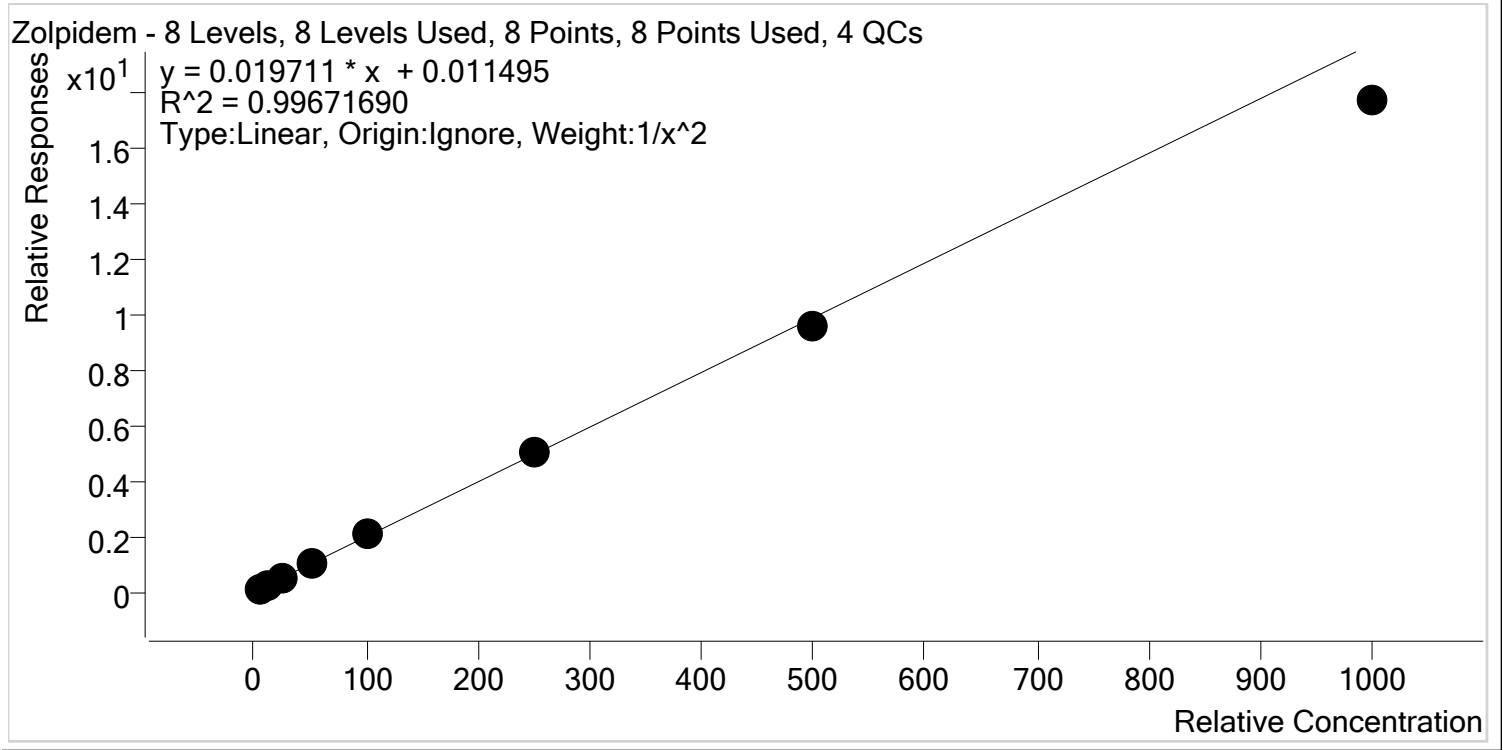
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	5.3	105.4
SP p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
SP p1 Cal 3 -25ng	3	✓	25.0	24.7	99.0
SP p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
SP p1 Cal 5-100ng	5	✓	100.0	96.4	96.4
SP p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
SP p1 Cal 7-500ng	7	✓	500.0	503.2	100.6
SP p1 Cal 8-1000ng	8	✓	1000.0	1002.4	100.2





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

**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Last Cal. Update** 2/21/2020 10:29 AM  
**Analyst Name** ISP\datastor  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
SP p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
SP p1 Cal 3 -25ng	3	✓	25.0	25.8	103.0
SP p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
SP p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
SP p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
SP p1 Cal 7-500ng	7	✓	500.0	486.6	97.3
SP p1 Cal 8-1000ng	8	✓	1000.0	896.4	89.6

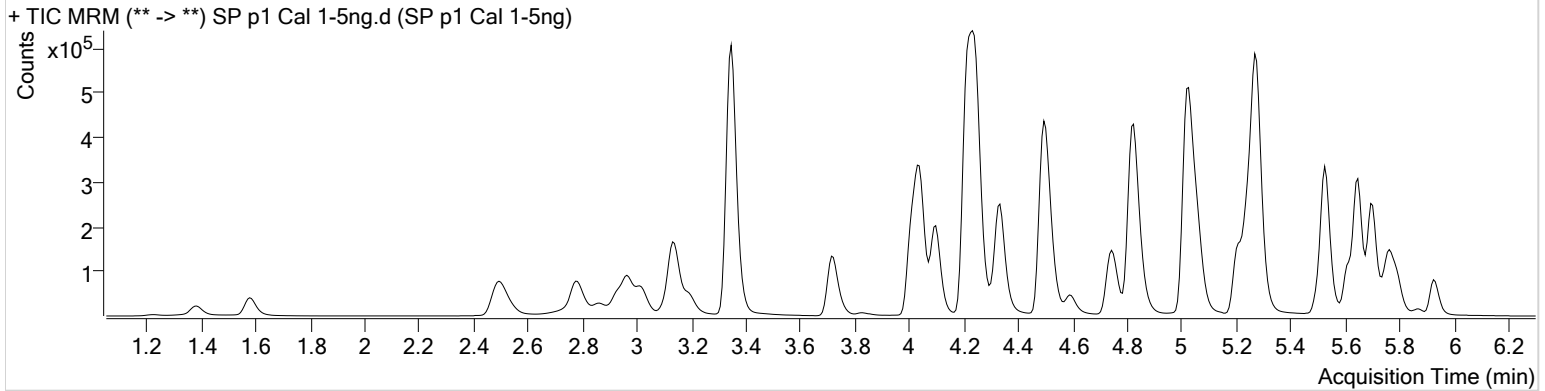
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 1-5ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 1-5ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-H12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 2:46:53 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	1195	759.51	69.4	4193.95	48666	0.5138 ng/ml
7-aminoclonazepam	4.237	14320	2502.41	78.1	25581.23	113281	4.7847 ng/ml
a-hydroxyalprazolam	5.680	1804	43.09	64.3	61.18	7948	5.0831 ng/ml
alpha-PVP	4.344	62317	2176.46	51.7	1173.30	545253	5.2783 ng/ml
Alprazolam	5.756	24474	178.00	105.7	407.41	127570	5.2332 ng/ml
Amphetamine	3.014	68047	642.15	53.1	263.06	159435	4.8242 ng/ml
Benzoylcegonine	3.853	2063	142.94	6.7	13.57	13643	5.2088 ng/ml
Buprenorphine	5.686	1504	45.01	17.9	18.44	102915	0.4889 ng/ml
Bupropion	4.759	50572	16452.88	59.3	521.20	359969	4.8683 ng/ml
Carisoprodol	5.712	22467	169.78	58.0	175.21	150894	5.3501 ng/ml
Citalopram	5.209	38898	873.55	39.5	1119.06	340843	5.1802 ng/ml
Clonazepam	5.593	3919	158.58	32.4	4752.15	8532	5.0667 ng/ml
Cocaine	4.243	65679	3191.40	44.4	∞	1006640	5.4935 ng/ml
Codeine	2.550	7837	205.89	95.0	27284.55	62791	4.8653 ng/ml
Cyclobenzaprine	5.617	29399	583.90	9.9	102.61	218503	5.0175 ng/ml
Dextromethorphan	5.252	21898	∞	79.6	225.46	195915	4.9498 ng/ml
Dextrorphan	4.100	17557	2953.22	208.4	2698.36	429288	5.1745 ng/ml
Diazepam	5.934	15996	1094.28	91.4	353.74	150371	4.9379 ng/ml
Dihydrocodeine	2.528	20762	1133.78	68.4	1951.95	221167	4.7979 ng/ml
Diphenhydramine	5.279	111000	295.41	32.7	2636.07	1179677	5.9968 ng/ml
Doxylamine	4.514	135148	17363.91	96.7	11030.65	1118539	4.2432 ng/ml
EDDP	5.251	35431	544.39	41.1	901.49	340437	5.0898 ng/ml
Fentanyl	5.072	3277	174.95	68.6	∞	304422	0.5211 ng/ml
Fluoxetine	5.702	56704	807.45	8.8	997.17	301350	6.1362 ng/ml
Hydrocodone	2.998	16908	86.80	41.4	77.55	211762	4.9192 ng/ml
Hydromorphone	1.587	14217	406.24	78.3	422.19	103781	4.9983 ng/ml
Ketamine	4.026	56895	3580.06	37.2	369.98	498893	4.9256 ng/ml
Lamotrigine	4.254	5765	251.76	80.1	∞	498893	4.8595 ng/ml
Lorazepam	5.734	1044	15.36	47.5	2.64	8532	6.9048 ng/ml
Meprobamate	4.875	13076	37.07	25.3	111.02	37066	15.2192 ng/ml
Methadone	5.648	57181	2058.73	51.9	228.90	498855	5.4727 ng/ml
Methamphetamine	3.195	73446	876.36	42.2	378.44	413904	5.0507 ng/ml
Metoprolol	4.306	24740	394.40	95.8	969.11	1281475	6.1017 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	69051	4323.48	50.0	2824.55	545253	4.8787 ng/ml
Mitragynine	5.207	10574	23000.83	40.1	3999.39	498855	4.4763 ng/ml
Morphine	1.233	2800	3795.74	24.1	1201.61	5048	4.9728 ng/ml
Norbuprenorphine	4.976	153	9.22 <b>Low</b>	116.5 <b>High</b>	∞	5352	1.0476 ng/ml
Nordiazepam	5.874	3264	182.81	56.7	174.04	19767	4.9628 ng/ml
Norfentanyl	4.068	8117	880.41	38.8	138.76	674268	0.5200 ng/ml
Norhydrocodone	3.046	2857	82.87	40.3	41.97	51716	5.0884 ng/ml
Noroxycodone	2.883	12508	180.91	49.9	240.98	72843	4.9772 ng/ml
O-desmethyl-tramadol	3.354	141017	9548.92	6.3	190.80	1471822	5.0585 ng/ml
Oxazepam	5.738	1161	23.12	62.7	4.33 <b>Low</b>	13154	5.6172 ng/ml
Oxycodone	2.807	28991	∞	32.9	227.67	276275	4.9256 ng/ml
Oxymorphone	1.383	9386	332.93	49.3	557.47	67450	4.9281 ng/ml
Phentermine	3.751	17334	509.21	2.6	28.07	376057	4.7003 ng/ml
Promethazine	5.534	66282	705.07	30.1	1177.93	582840	5.4764 ng/ml
Quetiapine	5.517	55451	1873.02	61.1	87744.43	150815	4.8119 ng/ml
Sertraline	5.770	19400	692.10	86.6	383.28	155110	4.9562 ng/ml
Temazepam	5.798	11948	125.05	30.6	25.30	118643	5.1366 ng/ml
Tramadol	4.226	131036	6662.89	3.3	115.39	1281475	4.8688 ng/ml
Trazodone	5.065	49113	8666.59	79.5	2445.42	384030	5.2084 ng/ml
Venlafaxine	5.027	88569	1117.44	35.9	477.93	910061	5.2692 ng/ml
Zolpidem	4.837	119733	9305.22	30.4	3796.03	1099532	4.9413 ng/ml

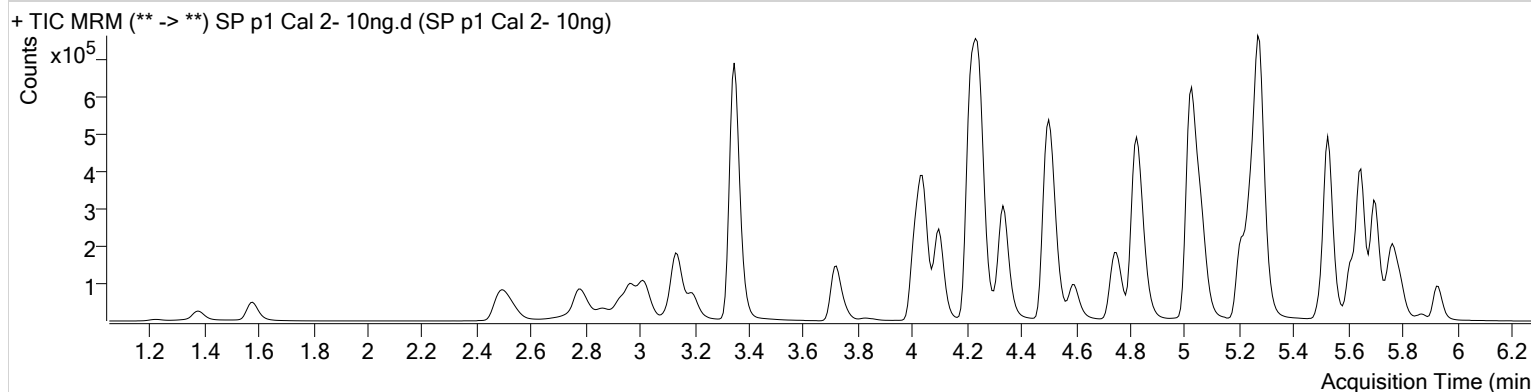
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 2- 10ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 2- 10ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-G12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 2:57:45 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	2192	12362.44	72.9	558.36	50677	0.9481 ng/ml
7-aminoclonazepam	4.237	29679	3126.08	78.5	579.49	116795	10.5841 ng/ml
a-hydroxyalprazolam	5.680	3767	688.06	61.4	187.00	8568	9.8089 ng/ml
alpha-PVP	4.344	131858	3704.52	51.2	432.09	592259	10.0863 ng/ml
Alprazolam	5.756	50448	876.26	106.1	404.41	133499	10.0578 ng/ml
Amphetamine	3.014	137307	923.85	54.7	5169.77	169303	10.4058 ng/ml
Benzoylcegonine	3.853	3851	900.82	8.3	∞	14051	9.5355 ng/ml
Buprenorphine	5.692	3138	89.14	14.0	79.23	122130	1.0032 ng/ml
Bupropion	4.759	111292	1634.34	57.7	5684.21	401317	9.9979 ng/ml
Carisoprodol	5.705	33163	1918.30	57.3	115.98	156387	8.6886 ng/ml
Citalopram	5.209	90147	1068.79	39.5	18257.62	404315	10.1026 ng/ml
Clonazepam	5.593	7532	289.67	36.7	∞	9543	9.3638 ng/ml
Cocaine	4.243	135827	37894.91	44.8	4355.21	1063136	10.1901 ng/ml
Codeine	2.550	15981	1902.51	96.4	42429.20	65451	10.4047 ng/ml
Cyclobenzaprine	5.617	71165	210596.63	9.7	341.39	267507	9.9923 ng/ml
Dextromethorphan	5.252	51805	689.30	80.2	227.77	233871	10.0376 ng/ml
Dextrorphan	4.100	37012	822.97	209.5	898.26	475720	9.9073 ng/ml
Diazepam	5.934	32850	801.94	87.0	1228.50	154168	10.1400 ng/ml
Dihydrocodeine	2.521	42089	292.81	67.7	404.72	231594	10.3105 ng/ml
Diphenhydramine	5.279	206523	253.87	33.2	6660.03	1420125	9.5542 ng/ml
Doxylamine	4.514	286503	39453.50	96.9	20410.10	1225699	9.4980 ng/ml
EDDP	5.251	81440	698.96	41.7	∞	426638	9.7667 ng/ml
Fentanyl	5.072	7139	447.23	67.9	2523.28	376453	0.9530 ng/ml
Fluoxetine	5.702	96374	808.16	8.6	408.32	384467	8.8342 ng/ml
Hydrocodone	2.998	35060	251.50	41.5	152.02	230427	9.9921 ng/ml
Hydromorphone	1.587	28686	∞	79.2	243.23	109570	9.9255 ng/ml
Ketamine	4.026	114930	2030.02	37.5	∞	526275	10.1047 ng/ml
Lamotrigine	4.254	10899	1323.32	83.0	2833.58	526275	9.9843 ng/ml
Lorazepam	5.728	2056	42.69	69.8	14.80	9543	10.1897 ng/ml
Meprobamate	4.881	9536	62.60	28.6	152.48	38630	10.6119 ng/ml
Methadone	5.648	123932	1215.54	55.6	396.85	600380	9.8472 ng/ml
Methamphetamine	3.195	121032	1139.59	41.5	1741.86	453189	9.2580 ng/ml
Metoprolol	4.313	30020	678.79	94.1	778.01	1376027	7.6629 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	159090	15961.83	49.2	5631.40	592259	10.5624 ng/ml
Mitragynine	5.207	25765	∞	38.7	∞	600380	9.9830 ng/ml
Morphine	1.226	5555	1129.16	25.6	1653.98	5352	9.8806 ng/ml
Norbuprenorphine	4.983	169	7.68 <b>Low</b>	114.2 <b>High</b>	329.16	6222	0.9687 ng/ml
Nordiazepam	5.881	6754	7628.47	55.8	1090.98	20380	10.3442 ng/ml
Norfentanyl	4.068	17027	686.24	36.6	309.51	729754	0.9653 ng/ml
Norhydrocodone	3.046	6238	124.21	42.1	∞	55942	9.8939 ng/ml
Noroxycodone	2.889	24423	478.26	47.5	714.24	75722	10.0193 ng/ml
O-desmethyl-tramadol	3.354	283817	9821.58	6.1	366.11	1545501	9.8588 ng/ml
Oxazepam	5.738	2097	19.91	74.0	16.52	13539	9.7956 ng/ml
Oxycodone	2.807	61769	1102.37	32.0	494.13	289368	10.2610 ng/ml
Oxymorphone	1.383	18977	273.62	48.1	195.57	69323	10.1491 ng/ml
Phentermine	3.751	35848	554.30	2.7	28.98	408082	10.5130 ng/ml
Promethazine	5.527	160235	478.15	30.3	1033.00	736758	10.0343 ng/ml
Quetiapine	5.517	125954	2171.86	60.8	2263.23	172451	10.3600 ng/ml
Sertraline	5.770	45166	781.38	88.6	1451.04	192145	9.7323 ng/ml
Temazepam	5.798	23104	322.37	33.9	68.38	123372	9.6399 ng/ml
Tramadol	4.226	267797	9695.90	3.4	223.94	1376027	10.1963 ng/ml
Trazodone	5.065	112266	1898.59	79.6	13776.38	463046	9.5621 ng/ml
Venlafaxine	5.027	186412	24835.99	36.7	1419.37	994464	9.9439 ng/ml
Zolpidem	4.844	243942	∞	30.8	1981.57	1172157	9.9748 ng/ml

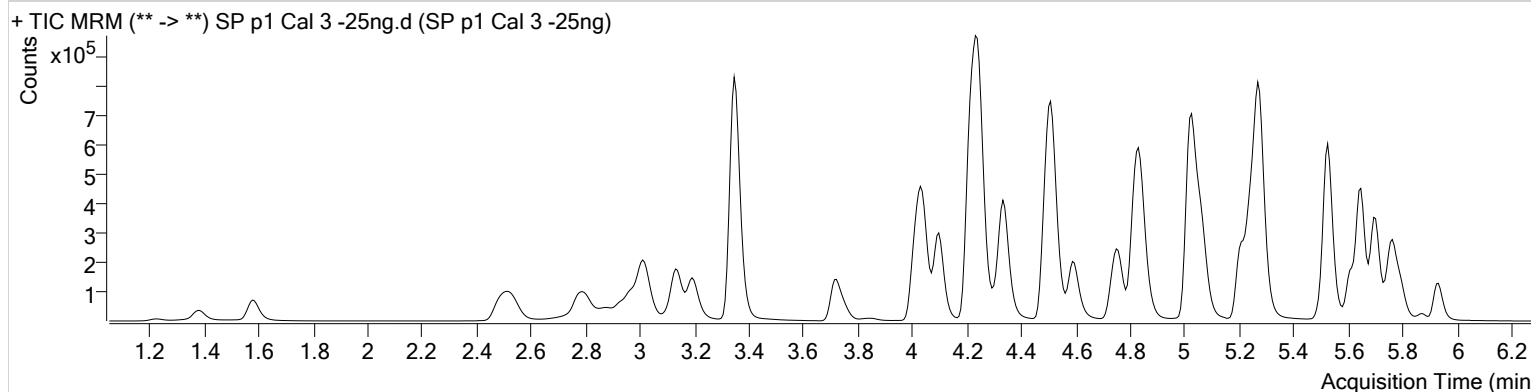
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 3 -25ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 3 -25ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-F12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 3:08:23 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	5467	∞	65.9	220.03	49894	2.4864 ng/ml
7-aminoclonazepam	4.237	68131	155.54	80.8	164.73	113824	26.2273 ng/ml
a-hydroxyalprazolam	5.680	9659	372.84	60.9	908.55	8761	24.5336 ng/ml
alpha-PVP	4.344	311730	1279.52	51.1	1755.29	570458	24.4562 ng/ml
Alprazolam	5.756	122753	592.26	101.7	1343.23	131293	24.5043 ng/ml
Amphetamine	3.014	313298	2460.48	54.1	5834.82	163430	26.4729 ng/ml
Benzoylcegonine	3.853	9271	837.45	7.9	42.93	14014	23.1774 ng/ml
Buprenorphine	5.686	6240	202.86	17.2	105.44	104269	2.5879 ng/ml
Bupropion	4.759	254061	5054.55	58.8	796.35	376873	24.8743 ng/ml
Carisoprodol	5.705	77828	2828.84	55.5	201.49	154403	24.1228 ng/ml
Citalopram	5.209	186544	537.86	41.0	1429.77	348016	24.2612 ng/ml
Clonazepam	5.593	18017	981.17	34.3	341.32	8620	26.3017 ng/ml
Cocaine	4.243	327305	32100.05	43.9	14289.77	1032553	24.4062 ng/ml
Codeine	2.550	36189	1123.67	101.9	3433.73	64387	25.1588 ng/ml
Cyclobenzaprine	5.617	140688	76366.30	10.1	494.09	215464	24.6317 ng/ml
Dextromethorphan	5.252	105609	14356.97	80.0	1732.98	192648	25.1839 ng/ml
Dextrorphan	4.100	87470	2079.13	209.6	902.69	452572	24.7152 ng/ml
Diazepam	5.934	78836	961.53	89.3	1107.24	150444	25.2988 ng/ml
Dihydrocodeine	2.528	102549	11318.09	67.2	591.72	228287	27.0920 ng/ml
Diphenhydramine	5.279	416525	778.66	33.6	5076.61	1197391	23.5827 ng/ml
Doxylamine	4.514	681018	77278.91	96.7	6470.65	1188518	25.2851 ng/ml
EDDP	5.244	176980	1116.89	41.8	17728.52	386873	24.1278 ng/ml
Fentanyl	5.072	13530	336.18	74.0	1513.36	302451	2.3110 ng/ml
Fluoxetine	5.702	176560	∞	8.8	160.94	300988	23.3350 ng/ml
Hydrocodone	2.998	84358	3419.50	42.3	∞	220664	26.1382 ng/ml
Hydromorphone	1.587	69354	1098.06	77.3	1071.53	106122	25.3893 ng/ml
Ketamine	4.026	273666	1986.62	37.5	237.88	517213	25.5283 ng/ml
Lamotrigine	4.254	27132	6567.91	78.1	3786.03	517213	27.7582 ng/ml
Lorazepam	5.728	5506	48.91	57.5	44.29	8620	25.1190 ng/ml
Meprobamate	4.881	19855	1033.18	26.4	291.98	37906	22.6598 ng/ml
Methadone	5.648	259399	28436.05	54.9	2562.80	507885	24.3495 ng/ml
Methamphetamine	3.195	274403	2398.28	42.2	1550.88	427126	26.8799 ng/ml
Metoprolol	4.313	66844	1087.54	97.8	1516.78	1332197	25.3005 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	343109	53321.64	49.1	∞	570458	23.8873 ng/ml
Mitragynine	5.200	51871	116922.35	37.8	1982.93	507885	24.9987 ng/ml
Morphine	1.226	13011	2061.50	24.3	1418.65	4966	25.9420 ng/ml
Norbuprenorphine	4.976	304	20.52	93.5	468.11	5571	2.3939 ng/ml
Nordiazepam	5.874	15249	1652.33	58.3	323.47	20452	23.7453 ng/ml
Norfentanyl	4.068	40524	12310.35	37.7	201.80	705302	2.3105 ng/ml
Norhydrocodone	3.046	15359	1181.70	40.7	262.24	56212	23.7050 ng/ml
Noroxycodone	2.883	57168	409.05	50.6	1015.87	74708	24.8194 ng/ml
O-desmethyl-tramadol	3.354	683412	3222.72	6.0	1755.35	1518399	24.4213 ng/ml
Oxazepam	5.738	5307	57.43	67.6	22.39	12731	26.2374 ng/ml
Oxycodone	2.807	147029	2604.37	31.6	1825.93	286689	24.9799 ng/ml
Oxymorphone	1.383	45181	1298.33	48.6	∞	67548	25.4755 ng/ml
Phentermine	3.751	80916	1008.82	2.6	125.56	387757	27.3352 ng/ml
Promethazine	5.527	316877	1518.61	30.4	477.27	587207	24.1847 ng/ml
Quetiapine	5.517	278399	4567.37	59.8	592267.46	155965	26.4922 ng/ml
Sertraline	5.770	87016	992.62	90.7	1392.34	148925	24.8972 ng/ml
Temazepam	5.798	56326	266.13	31.3	258.90	122625	23.7932 ng/ml
Tramadol	4.226	625285	56159.57	3.4	1510.25	1332197	26.0440 ng/ml
Trazodone	5.065	237420	∞	77.3	∞	386438	23.6963 ng/ml
Venlafaxine	5.027	446953	2872.85	36.3	576.74	945563	24.7381 ng/ml
Zolpidem	4.837	592805	1363.18	30.6	1153.76	1141715	25.7580 ng/ml

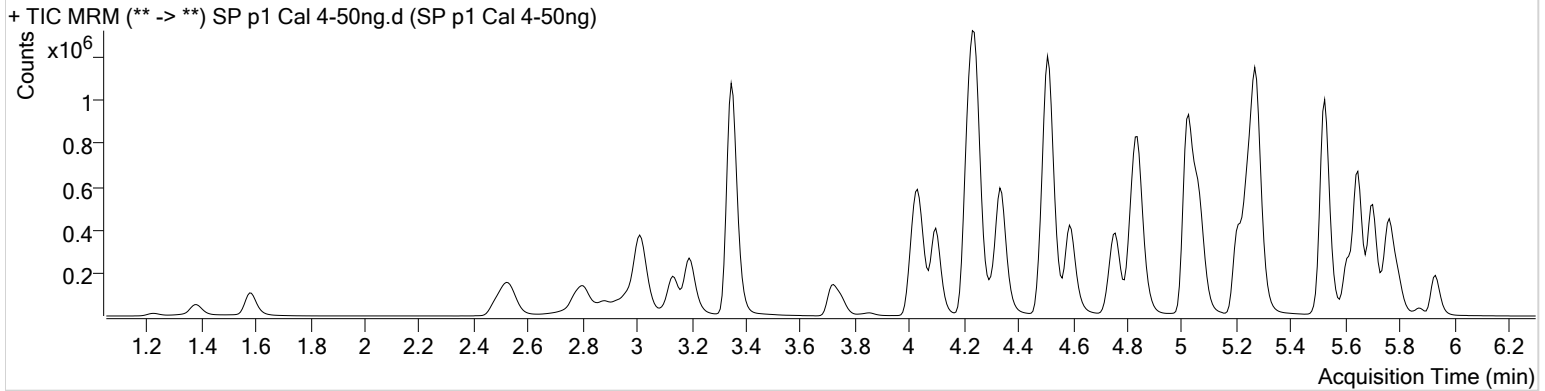
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 4-50ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 4-50ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-E12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 3:18:59 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	10765	1570.73	70.9	25289.55	49266	5.0134 ng/ml
7-aminoclonazepam	4.237	130403	385.90	79.7	25180.54	108605	53.5738 ng/ml
a-hydroxyalprazolam	5.680	18824	382.96	60.5	306.36	8501	49.2307 ng/ml
alpha-PVP	4.344	623140	2309.54	50.9	24058.10	559136	49.6628 ng/ml
Alprazolam	5.756	243896	3334.50	102.3	1264.81	126692	50.1820 ng/ml
Amphetamine	3.014	605807	∞	54.3	7153.08	162042	52.9352 ng/ml
Benzoylcegonine	3.853	18921	4331.39	8.8	456.91	13764	48.2815 ng/ml
Buprenorphine	5.686	13426	606.23	17.6	568.91	108846	5.5342 ng/ml
Bupropion	4.759	516038	91668.61	58.2	14680.61	373974	51.3325 ng/ml
Carisoprodol	5.705	148357	13754.16	55.9	796.46	148507	50.2826 ng/ml
Citalopram	5.209	397160	2544.83	40.8	10181.48	358435	50.1318 ng/ml
Clonazepam	5.593	36690	677.47	33.5	247.81	8759	53.6332 ng/ml
Cocaine	4.243	636354	46590.55	44.5	30817.37	989554	48.9043 ng/ml
Codeine	2.550	71827	13155.93	98.8	50758.86	62524	52.3916 ng/ml
Cyclobenzaprine	5.617	309228	∞	10.3	1048.34	232268	50.2988 ng/ml
Dextromethorphan	5.252	226442	7386.85	79.0	660.47	208018	50.2373 ng/ml
Dextrorphan	4.100	174316	18450.42	209.4	1185.17	446542	49.9911 ng/ml
Diazepam	5.934	156356	3336.72	86.8	1082.19	147513	51.4258 ng/ml
Dihydrocodeine	2.521	200795	2504.69	67.5	375.94	227253	54.3443 ng/ml
Diphenhydramine	5.279	872393	1722.70	34.0	448.61	1242157	48.1464 ng/ml
Doxylamine	4.514	1362183	∞	97.4	73716.64	1160806	53.2288 ng/ml
EDDP	5.244	385822	15518.10	42.0	1174.37	408142	50.4096 ng/ml
Fentanyl	5.072	30638	∞	71.6	1950.85	330042	4.8453 ng/ml
Fluoxetine	5.702	383447	14070.58	9.2	2157.57	322038	49.4109 ng/ml
Hydrocodone	2.998	170695	207.09	41.8	177.84	221098	53.4813 ng/ml
Hydromorphone	1.587	134788	1006.05	78.9	1510.92	104461	50.5277 ng/ml
Ketamine	4.026	544943	2273.78	37.8	4034.84	510323	52.2684 ng/ml
Lamotrigine	4.254	51977	1829.63	78.7	5394.58	510323	55.4098 ng/ml
Lorazepam	5.728	11242	115.45	52.6	59.86	8759	47.8591 ng/ml
Meprobamate	4.875	39412	∞	25.0	249.08	37181	45.9859 ng/ml
Methadone	5.648	557545	7242.99	53.7	4336.58	540599	49.1584 ng/ml
Methamphetamine	3.195	532352	3054.39	42.0	1799.82	429317	54.9324 ng/ml
Metoprolol	4.306	127175	4197.91	96.7	8109.33	1291835	55.3202 ng/ml



# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	722681	9079.57	49.7	6717.26	559136	51.5514 ng/ml
Mitragynine	5.200	114225	262520.65	38.8	4915.68	540599	52.6793 ng/ml
Morphine	1.226	25740	372.67	24.2	763.77	4959	52.0434 ng/ml
Norbuprenorphine	4.976	643	68.07	84.7	∞	5753	5.3577 ng/ml
Nordiazepam	5.881	30980	∞	56.2	1234.61	19788	50.2786 ng/ml
Norfentanyl	4.068	81450	6431.91	37.1	1184.97	687626	4.7152 ng/ml
Norhydrocodone	3.046	32221	∞	41.1	87.88	56281	49.2647 ng/ml
Noroxycodone	2.883	114560	536.36	49.1	1309.75	72338	52.1824 ng/ml
O-desmethyl-tramadol	3.354	1360988	51993.49	6.0	979.50	1480837	50.0532 ng/ml
Oxazepam	5.738	10383	88.31	73.6	40.46	13136	49.6783 ng/ml
Oxycodone	2.807	294762	28662.19	32.4	2518.10	284160	50.7638 ng/ml
Oxymorphone	1.383	89316	291.10	46.8	361.34	66487	51.6384 ng/ml
Phentermine	3.751	164395	11538.97	2.6	189.62	384844	57.7541 ng/ml
Promethazine	5.527	703557	21871.87	30.1	1059.01	639559	48.8018 ng/ml
Quetiapine	5.517	567788	6399.57	60.9	34250.41	159659	53.5865 ng/ml
Sertraline	5.770	186748	1627.52	88.0	784.93	157760	50.9275 ng/ml
Temazepam	5.798	114448	946.68	30.0	339.49	118439	50.1669 ng/ml
Tramadol	4.226	1215438	1747.42	3.3	293.47	1291835	53.2404 ng/ml
Trazodone	5.065	496904	6705.69	80.6	7495.62	409140	46.5026 ng/ml
Venlafaxine	5.027	891369	1931.49	36.1	1108.11	932231	49.8149 ng/ml
Zolpidem	4.837	1197376	27517.33	30.2	876.16	1138140	52.7890 ng/ml

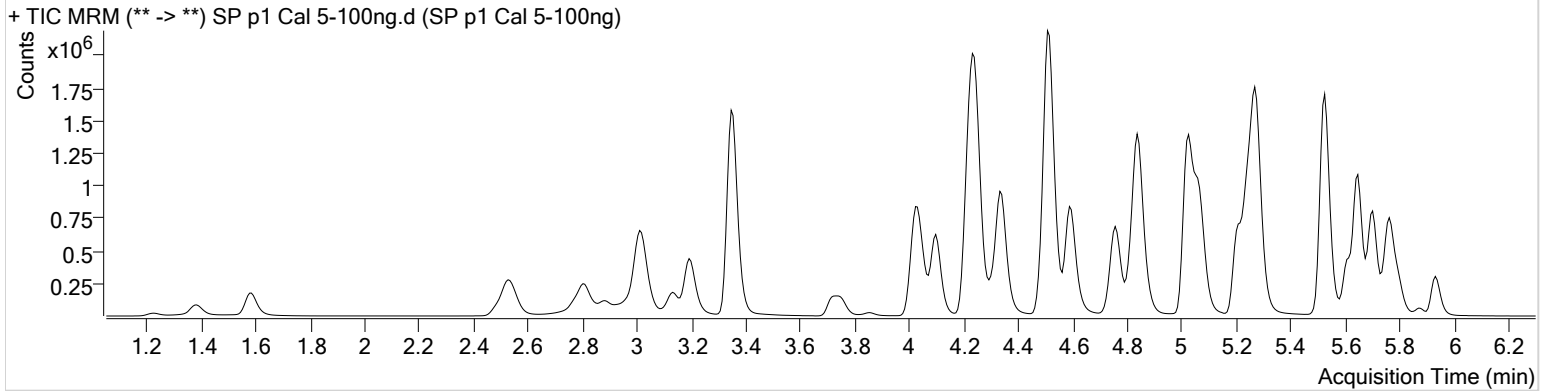
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 5-100ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 5-100ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-D12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 3:29:37 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	21140	7057.30	70.3	4784.76	50271	9.6996 ng/ml
7-aminoclonazepam	4.231	227727	6731.03	80.3	662.37	103774	98.7047 ng/ml
a-hydroxyalprazolam	5.680	36047	794.98	62.3	326.94	8504	94.2066 ng/ml
alpha-PVP	4.344	1221119	82356.47	51.3	13814.16	556947	97.5032 ng/ml
Alprazolam	5.756	459407	1376.46	102.3	3189.38	124226	96.1633 ng/ml
Amphetamine	3.021	1086923	10150.44	54.0	14303.03	157416	98.9313 ng/ml
Benzoylcegonine	3.853	38729	3325.37	7.8	538.51	14099	96.5919 ng/ml
Buprenorphine	5.686	25827	∞	16.8	606.39	110169	10.6887 ng/ml
Bupropion	4.759	1036778	70426.97	58.3	2952.90	385830	100.3415 ng/ml
Carisoprodol	5.705	282982	881.16	54.2	2970.17	143652	101.6020 ng/ml
Citalopram	5.209	790078	1196.49	41.0	110510.65	361070	98.9820 ng/ml
Clonazepam	5.593	72672	4112.55	33.6	2817.21	9180	102.1670 ng/ml
Cocaine	4.243	1230144	88564.97	43.9	141239.47	975692	95.3123 ng/ml
Codeine	2.550	137992	589.95	97.3	1648.86	61780	102.7411 ng/ml
Cyclobenzaprine	5.617	617361	6399.90	9.9	4032.82	238147	98.0097 ng/ml
Dextromethorphan	5.252	457146	1558.15	79.9	∞	212473	99.5207 ng/ml
Dextrorphan	4.100	349726	127225.69	208.0	48954.60	448741	99.8745 ng/ml
Diazepam	5.934	301696	8546.58	87.1	832.86	145057	101.1479 ng/ml
Dihydrocodeine	2.528	384401	2706.71	66.9	2793.34	230298	103.6318 ng/ml
Diphenhydramine	5.279	1755199	40230.82	33.9	826.58	1269064	95.3214 ng/ml
Doxylamine	4.514	2785723	14615.93	97.3	163016.45	1220280	104.8539 ng/ml
EDDP	5.244	775666	14998.73	41.8	757.75	419795	99.0249 ng/ml
Fentanyl	5.072	62373	9466.74	74.8	∞	338246	9.6705 ng/ml
Fluoxetine	5.702	756835	23767.44	9.1	448.15	328367	97.5042 ng/ml
Hydrocodone	2.998	338471	∞	41.0	546.78	228497	103.2412 ng/ml
Hydromorphone	1.587	260991	∞	79.1	∞	102448	100.1580 ng/ml
Ketamine	4.026	1062660	23397.45	38.0	1542.33	512296	102.2256 ng/ml
Lamotrigine	4.254	92278	10269.84	80.0	3961.64	512296	99.2308 ng/ml
Lorazepam	5.728	22131	616.76	57.2	100.69	9180	87.6178 ng/ml
Meprobamate	4.881	77497	13958.26	26.1	153.22	37064	90.8336 ng/ml
Methadone	5.648	1137475	109350.66	54.4	2804.57	551407	98.3145 ng/ml
Methamphetamine	3.195	897452	4441.29	42.3	9034.41	387376	105.4807 ng/ml
Metoprolol	4.306	243819	3612.75	96.3	∞	1289823	111.6590 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	1467375	436254.67	49.4	62753.79	556947	105.2830 ng/ml
Mitragynine	5.200	227467	42152.93	39.7	8091.45	551407	103.7051 ng/ml
Morphine	1.226	49747	1432.54	23.7	432.66	4996	100.4484 ng/ml
Norbuprenorphine	4.976	1253	272.03	87.0	144.19	5961	10.4516 ng/ml
Nordiazepam	5.881	60700	2054.90	57.5	1619.66	19815	98.7413 ng/ml
Norfentanyl	4.068	162555	5058.05	37.4	3833.49	680155	9.4675 ng/ml
Norhydrocodone	3.046	65302	163.36	42.0	121.65	58079	96.3973 ng/ml
Noroxycodone	2.883	217344	731.07	49.7	1659.04	70733	101.9650 ng/ml
O-desmethyl-tramadol	3.354	2672247	4266.20	6.0	1264.38	1474320	98.8851 ng/ml
Oxazepam	5.738	21886	300.07	68.8	96.16	13394	102.6211 ng/ml
Oxycodone	2.807	598725	5366.52	32.3	2548.05	289749	101.3546 ng/ml
Oxymorphone	1.383	172853	321.94	48.5	∞	66209	100.7991 ng/ml
Phentermine	3.751	282796	3429.17	2.8	547.26	374057	103.5369 ng/ml
Promethazine	5.527	1438896	3434.66	30.3	1489.48	658704	96.4330 ng/ml
Quetiapine	5.517	1104673	107052.19	59.9	3401.54	162572	103.1278 ng/ml
Sertraline	5.770	363254	2261.87	89.3	∞	156409	100.3743 ng/ml
Temazepam	5.798	228497	1137.06	29.6	300.54	120221	98.7729 ng/ml
Tramadol	4.226	2358527	1576.89	3.4	688.06	1289823	104.4441 ng/ml
Trazodone	5.065	1007591	∞	79.2	189605.01	412294	93.2212 ng/ml
Venlafaxine	5.027	1777058	7055.37	36.3	14700.33	958229	96.4098 ng/ml
Zolpidem	4.844	2366470	172257.74	30.7	2295.29	1156130	103.2593 ng/ml

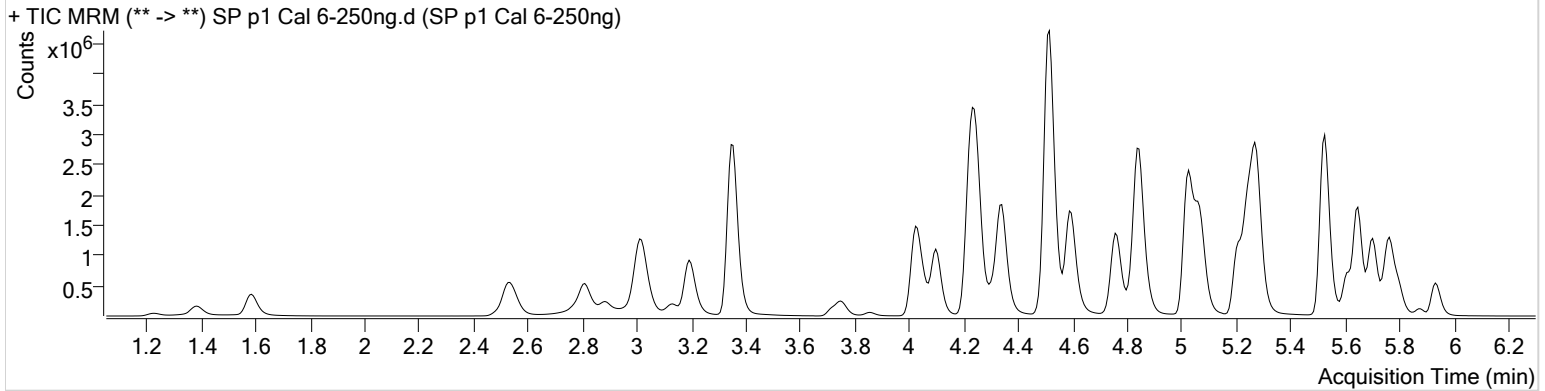
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 6-250ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 6-250ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-C12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 3:40:13 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	50461	8409.84	70.1	44920.68	46269	25.2438 ng/ml
7-aminoclonazepam	4.231	401519	14251.33	81.6	14148.20	82805	219.2598 ng/ml
a-hydroxyalprazolam	5.680	89314	504.30	62.5	631.56	7545	263.0065 ng/ml
alpha-PVP	4.344	2766279	341511.11	50.6	37687.39	496362	247.5222 ng/ml
Alprazolam	5.756	981936	2709.78	101.6	2777.09	102828	247.9036 ng/ml
Amphetamine	3.021	2137194	33831.07	53.4	21090.37	139047	221.9125 ng/ml
Benzoylcegonine	3.853	97988	98396.60	7.9	550.51	13518	255.0821 ng/ml
Buprenorphine	5.686	47840	960.80	15.5	323.84	84157	26.1875 ng/ml
Bupropion	4.759	2269593	2421.46	58.3	49660.75	338362	251.0675 ng/ml
Carisoprodol	5.705	598768	1323.81	54.6	376.99	120123	260.9480 ng/ml
Citalopram	5.209	1582451	2766.63	40.8	2100.20	287016	249.3750 ng/ml
Clonazepam	5.593	167477	9723.58	35.1	5292.35	8488	255.9994 ng/ml
Cocaine	4.243	2638849	233794.88	43.9	175465.72	817102	243.2189 ng/ml
Codeine	2.556	286078	10512.36	99.4	2375.07	53115	249.0538 ng/ml
Cyclobenzaprine	5.617	1181158	25597.81	10.0	5300.36	178189	250.7263 ng/ml
Dextromethorphan	5.252	855981	10396.47	79.4	1055.47	158396	250.3186 ng/ml
Dextrorphan	4.100	751534	4302.39	213.0	3143.46	389558	247.3327 ng/ml
Diazepam	5.934	634527	6756.75	88.1	2632.99	123832	249.5592 ng/ml
Dihydrocodeine	2.528	837383	4461.91	67.8	534403.71	217340	240.6400 ng/ml
Diphenhydramine	5.279	3494341	84112.87	33.4	3865.92	987841	244.6111 ng/ml
Doxylamine	4.514	6479251	554763.48	96.5	47668.39	1107079	270.9714 ng/ml
EDDP	5.244	1941500	1786.24	42.0	3412.89	415932	250.9519 ng/ml
Fentanyl	5.072	119009	17683.94	74.1	277488.31	246231	25.4216 ng/ml
Fluoxetine	5.702	1355140	216494.22	9.0	∞	236338	245.5230 ng/ml
Hydrocodone	2.998	765150	1001.77	43.4	∞	219169	244.2469 ng/ml
Hydromorphone	1.587	600668	∞	78.9	1221.72	94963	249.2901 ng/ml
Ketamine	4.026	2422774	98079.94	37.5	31800.10	468280	256.0711 ng/ml
Lamotrigine	4.261	172576	16735.26	79.4	∞	468280	204.7077 ng/ml
Lorazepam	5.728	56036	911.40	57.5	290.67	8488	235.4287 ng/ml
Meprobamate	4.881	176843	1006.81	26.0	2147.63	31854	241.3859 ng/ml
Methadone	5.648	2267997	46320.39	54.5	1695.87	441462	244.8329 ng/ml
Methamphetamine	3.195	1943333	56513.95	41.9	∞	350434	257.0550 ng/ml
Metoprolol	4.306	496351	7369.79	96.2	∞	1142480	264.2895 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	3042404	∞	49.8	18245.48	496362	245.1873 ng/ml
Mitragynine	5.200	445975	778248.92	38.9	21315.85	441462	255.2651 ng/ml
Morphine	1.226	110558	1246.08	24.3	2263.95	4463	250.8489 ng/ml
Norbuprenorphine	4.976	2359	239.01	89.8	∞	5052	23.7556 ng/ml
Nordiazepam	5.881	141751	∞	55.3	2896.24	18090	253.1696 ng/ml
Norfentanyl	4.068	371345	1031.18	37.6	8643.85	596898	24.5718 ng/ml
Norhydrocodone	3.046	154156	653.53	42.1	366.23	51377	256.6315 ng/ml
Noroxycodone	2.883	476216	1861.04	49.7	2961.52	63067	251.6831 ng/ml
O-desmethyl-tramadol	3.354	6188569	102452.69	5.9	13061.78	1334804	253.2181 ng/ml
Oxazepam	5.738	53965	709.27	68.8	721.58	13632	248.4929 ng/ml
Oxycodone	2.807	1426776	2220.36	32.1	5764.81	278009	252.0763 ng/ml
Oxymorphone	1.383	376969	1026.02	48.9	∞	59357	245.8768 ng/ml
Phentermine	3.751	606145	5852.19	2.4	545.09	330940	253.2767 ng/ml
Promethazine	5.527	2744130	112425.42	29.8	2933.67	486772	248.1052 ng/ml
Quetiapine	5.517	2299289	146381.37	60.6	1453.07	139813	250.7485 ng/ml
Sertraline	5.770	608046	32005.23	89.4	2950.95	103822	253.8384 ng/ml
Temazepam	5.798	541771	12510.32	29.1	1526.02	111444	252.7951 ng/ml
Tramadol	4.226	5088869	3915.09	3.3	602.73	1142480	255.8948 ng/ml
Trazodone	5.065	2045081	30270.66	79.4	237158.97	316357	246.0145 ng/ml
Venlafaxine	5.027	4006029	2790.18	35.8	2350.43	837634	248.2777 ng/ml
Zolpidem	4.844	5437858	1891.56	30.2	78610.87	1073033	256.5128 ng/ml

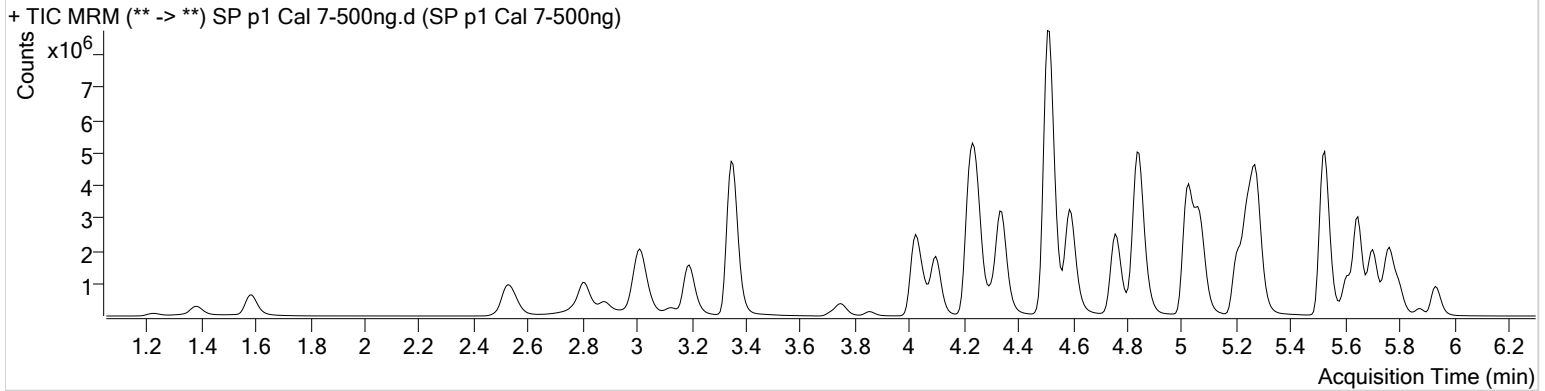
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 7-500ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 7-500ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-B12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 3:50:51 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	101931	16354.41	70.9	10062.84	45772	51.6041 ng/ml
7-aminoclonazepam	4.231	545843	∞	80.1	26023.44	69203	357.2591 ng/ml
a-hydroxyalprazolam	5.680	192317	1358.58	61.2	535.23	8811	484.9189 ng/ml
alpha-PVP	4.344	5242231	74125.15	50.7	319014.52	471494	493.6009 ng/ml
Alprazolam	5.756	1771509	2042.44	101.9	2053.15	91097	504.5682 ng/ml
Amphetamine	3.014	3399893	27440.03	53.4	65347.74	133054	369.8344 ng/ml
Benzoylcegonine	3.853	232231	17962.52	7.7	1275.16	15891	514.3714 ng/ml
Buprenorphine	5.686	72348	∞	16.7	985.68	72241	46.2796 ng/ml
Bupropion	4.759	4346825	326829.44	57.7	2747.48	325834	499.7384 ng/ml
Carisoprodol	5.705	1051805	40132.57	56.0	967.08	106906	517.5134 ng/ml
Citalopram	5.209	2766727	5176.43	40.7	2244.78	254687	491.3282 ng/ml
Clonazepam	5.593	350785	1225.70	34.1	12296.56	9454	482.2322 ng/ml
Cocaine	4.243	4691553	228557.55	43.6	118956.14	720971	489.4694 ng/ml
Codeine	2.550	518563	1447.66	99.3	16180.07	49990	480.5273 ng/ml
Cyclobenzaprine	5.610	2133114	127077.08	9.9	6775.29	159586	505.6556 ng/ml
Dextromethorphan	5.252	1432207	588.07	79.6	2957.77	133290	497.9429 ng/ml
Dextrorphan	4.100	1369717	1749.98	212.8	38027.17	354903	494.8659 ng/ml
Diazepam	5.934	1158935	2798.03	87.4	33604.76	115339	489.6092 ng/ml
Dihydrocodeine	2.521	1555895	5393.95	68.0	41815.09	231842	419.9610 ng/ml
Diphenhydramine	5.279	6165874	6148.92	33.4	634.89	863104	494.5370 ng/ml
Doxylamine	4.514	12761886	38012.39	96.0	26935.63	1136333	521.2477 ng/ml
EDDP	5.244	3868622	2594.65	41.4	1421.81	409949	507.8712 ng/ml
Fentanyl	5.072	216288	65123.49	76.1	13455.10	219457	51.8860 ng/ml
Fluoxetine	5.702	2235623	48918.17	8.9	31693.77	191732	501.3328 ng/ml
Hydrocodone	2.991	1579590	∞	41.3	∞	227689	486.0331 ng/ml
Hydromorphone	1.587	1182527	1035.69	78.8	961.20	93895	496.7643 ng/ml
Ketamine	4.026	4645743	5394.92	37.1	25589.33	476594	483.1079 ng/ml
Lamotrigine	4.261	254360	87098.84	82.1	25400.99	476594	297.1762 ng/ml
Lorazepam	5.728	138510	∞	57.5	2464.55	9454	519.3332 ng/ml
Meprobamate	4.881	358118	17595.86	26.5	657.61	29759	523.3978 ng/ml
Methadone	5.648	4156203	93599.18	54.0	2231.53	401669	493.1061 ng/ml
Methamphetamine	3.195	3428273	174801.59	42.1	3086.96	339225	471.1572 ng/ml
Metoprolol	4.306	832715	232943.43	96.4	14919.75	1086456	470.7679 ng/ml

# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	5816878	19637.64	49.0	11143.48	471494	493.7005 ng/ml
Mitragynine	5.200	802788	∞	38.9	21162.46	401669	505.8969 ng/ml
Morphine	1.226	209851	11791.74	25.3	2069.72	4402	483.3811 ng/ml
Norbuprenorphine	4.976	4933	213.89	80.3	1862.15	4878	51.9554 ng/ml
Nordiazepam	5.874	280368	2629.90	56.8	1551.25	18110	500.5560 ng/ml
Norfentanyl	4.061	722152	394433.17	37.7	7937.36	539501	52.8161 ng/ml
Norhydrocodone	3.039	292005	∞	41.4	196.37	46455	537.2180 ng/ml
Noroxycodone	2.883	906162	4187.13	49.5	1440.83	62390	484.8144 ng/ml
O-desmethyl-tramadol	3.348	11892752	183051.52	5.8	22380.88	1281066	507.2076 ng/ml
Oxazepam	5.731	138416	5941.19	68.4	2904.11	17416	498.8053 ng/ml
Oxycodone	2.800	2956432	2417.54	32.2	∞	298648	486.4485 ng/ml
Oxymorphone	1.383	771650	∞	48.1	1531.18	59963	498.7006 ng/ml
Phentermine	3.751	1036424	18819.22	2.5	2023.98	319065	450.5134 ng/ml
Promethazine	5.527	4943084	2038.34	29.6	34796.58	439826	494.1450 ng/ml
Quetiapine	5.517	4227322	4236.83	58.4	10619.16	136878	471.6082 ng/ml
Sertraline	5.770	910334	8407.34	89.9	1227.55	77936	506.7326 ng/ml
Temazepam	5.798	1142552	2169.69	29.8	1886.40	116105	511.8297 ng/ml
Tramadol	4.226	8960848	13252.24	3.3	1149.86	1086456	474.7101 ng/ml
Trazodone	5.065	3868236	38109.30	78.9	178966.94	277217	530.6280 ng/ml
Venlafaxine	5.027	7644792	561523.71	35.0	36599.59	788341	503.1911 ng/ml
Zolpidem	4.844	10752991	111657.10	29.4	3720.69	1119850	486.5525 ng/ml



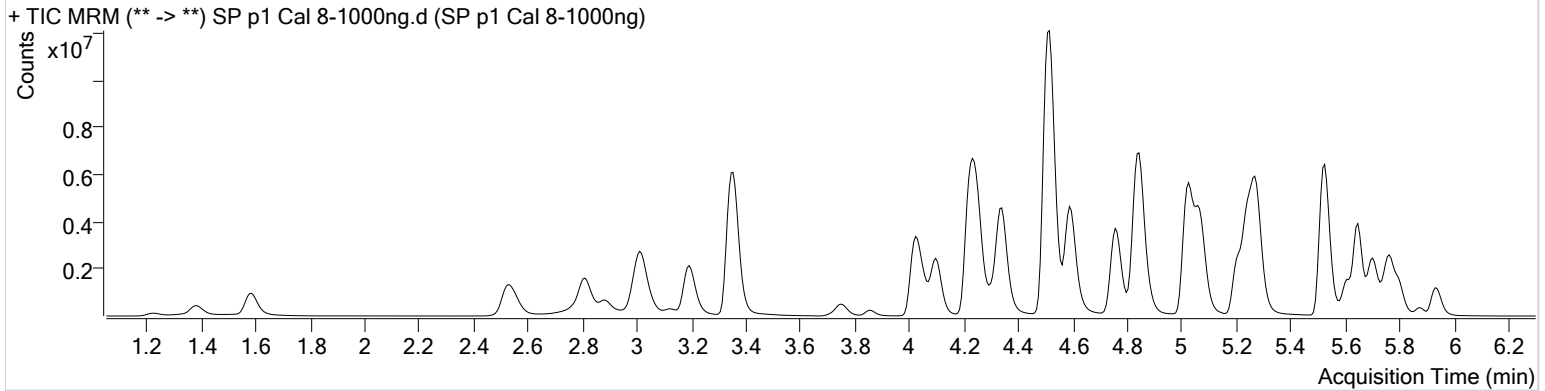
# AM #28 Multi-Drug Quant. Results



**Batch results** D:\MassHunter\Data\2020\AM 27-28\021920 AM 27 28 CS SP\QuantResults\MDQ SP.batch.bin  
**Calibration Last Update** 2/21/2020 10:29:06 AM

<b>Instrument</b>	Falco	<b>Data File</b>	SP p1 Cal 8-1000ng.d
<b>Type</b>	Cal	<b>Sample</b>	SP p1 Cal 8-1000ng
<b>Acq. Method</b>	MDQ P1 01112020.m	<b>Operator</b>	Sarah Pickle
<b>Sample Position</b>	P2-A12	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	2/20/2020 4:01:27 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	166051	82978.53	71.2	15196.39	37922	101.5207 ng/ml
7-aminoclonazepam	4.231	579963	15438.81	80.3	9552.33	45316	580.2760 ng/ml
a-hydroxyalprazolam	5.680	332982	1274.23	63.5	1200.70	6897	1072.6021 ng/ml
alpha-PVP	4.344	7958677	9147.00	50.4	274575.94	349101	1011.8901 ng/ml
Alprazolam	5.756	2471577	2559.41	100.9	1478.23	64024	1001.3876 ng/ml
Amphetamine	3.021	4429195	106958.84	53.0	41815.12	103532	620.1103 ng/ml
Benzoylcegonine	3.853	431629	106442.45	7.8	11149.21	13851	1096.9669 ng/ml
Buprenorphine	5.686	79424	2634.25	16.4	334.73	44036	83.4988 ng/ml
Bupropion	4.759	6607278	10137.45	57.9	6013.18	248157	997.7796 ng/ml
Carisoprodol	5.712	1488307	1326.15	55.6	1600.05	78805	995.7179 ng/ml
Citalopram	5.209	3609095	37698.15	40.1	∞	161512	1010.6390 ng/ml
Clonazepam	5.593	548070	59316.79	35.2	271637.10	7788	915.4109 ng/ml
Cocaine	4.243	6559180	61159.85	43.4	59779.00	481975	1023.0051 ng/ml
Codeine	2.556	747573	2703.29	97.8	532.14	36580	947.5984 ng/ml
Cyclobenzaprine	5.610	2650330	287614.32	9.9	28291.03	99108	1011.7133 ng/ml
Dextromethorphan	5.252	1728624	38478.28	79.7	1847.42	79982	1001.8092 ng/ml
Dextrorphan	4.100	1956835	17002.96	211.8	68338.80	248904	1008.1390 ng/ml
Diazepam	5.934	1643005	33843.45	88.3	2614.32	82639	969.0150 ng/ml
Dihydrocodeine	2.528	2268026	132091.70	68.3	3586.07	193685	733.5946 ng/ml
Diphenhydramine	5.279	8114712	9560.14	33.1	49349.34	551978	1018.2505 ng/ml
Doxylamine	4.514	18926623	41667.57	96.2	13405.30	925115	950.6720 ng/ml
EDDP	5.244	5996734	3274.99	41.0	4398.06	315865	1022.2615 ng/ml
Fentanyl	5.072	271347	∞	75.5	12175.70	131157	108.9689 ng/ml
Fluoxetine	5.702	2466024	1770.57	8.8	44885.99	105403	1007.9236 ng/ml
Hydrocodone	2.998	2433057	1253.38	43.7	908.09	185337	920.3242 ng/ml
Hydromorphone	1.587	1846916	∞	78.9	567.53	73660	989.4075 ng/ml
Ketamine	4.026	6954632	604816.53	36.7	3630.28	372831	925.1574 ng/ml
Lamotrigine	4.261	301224	∞	79.0	∞	372831	450.7040 ng/ml
Lorazepam	5.728	256132	9704.01	57.2	1536.39	7788	1162.5236 ng/ml
Meprobamate	4.881	542877	4892.49	26.5	1843.28	19810	1192.0273 ng/ml
Methadone	5.648	5562208	8426.16	53.6	3662.31	261170	1014.9188 ng/ml
Methamphetamine	3.195	4832363	72246.97	41.8	89613.07	261309	864.8731 ng/ml
Metoprolol	4.306	1134332	12423.55	96.9	∞	830316	843.7310 ng/ml



# AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.589	8377673	733905.80	49.1	235410.37	349101	960.5153 ng/ml
Mitragynine	5.200	1013377	42183.36	39.0	53800.36	261170	982.9956 ng/ml
Morphine	1.226	323123	14025.86	25.7	7179.02	3400	964.1816 ng/ml
Norbuprenorphine	4.976	6260	624.54	88.5	5855.04	3447	93.6417 ng/ml
Nordiazepam	5.881	457843	∞	55.6	19391.12	14570	1016.4394 ng/ml
Norfentanyl	4.068	1155648	1828.31	37.8	21646.38	399251	114.1588 ng/ml
Norhydrocodone	3.046	423554	∞	44.8	376.55	36388	994.4899 ng/ml
Noroxycodone	2.883	1364096	19277.54	50.6	942.96	46970	970.1823 ng/ml
O-desmethyl-tramadol	3.354	17206283	185374.01	5.9	24782.76	932434	1008.3694 ng/ml
Oxazepam	5.731	256386	3377.70	68.6	359.00	16768	959.5839 ng/ml
Oxycodone	2.807	4922028	12190.41	32.0	12659.19	246969	979.5675 ng/ml
Oxymorphone	1.383	1197470	2078.74	48.9	∞	48423	958.7770 ng/ml
Phentermine	3.751	1474616	7823.96	2.5	2854.41	252717	810.6395 ng/ml
Promethazine	5.527	6188411	97346.61	28.9	3557.33	268514	1012.8195 ng/ml
Quetiapine	5.517	5997868	13625.68	59.0	2880.53	102679	892.7251 ng/ml
Sertraline	5.770	950177	23581.70	89.5	905.00	41718	988.5415 ng/ml
Temazepam	5.798	1874844	2049.18	29.3	1672.66	94587	1031.0517 ng/ml
Tramadol	4.219	12719957	401861.03	3.3	8655.92	830316	882.6086 ng/ml
Trazodone	5.065	5555032	666762.50	78.9	269270.72	184157	1146.6799 ng/ml
Venlafaxine	5.027	11577933	175313.88	35.0	4443.94	599233	1002.3553 ng/ml
Zolpidem	4.844	15844520	1202.74	29.9	448019.86	896123	896.4155 ng/ml