

Worklist: 4068

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-0573	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0675	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0754	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2020-0798	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0372	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0407	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0473	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0612	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0641	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0642	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0646	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0667	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0672	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0674	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0675	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0691	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0707	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0708	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0709	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2020-0749	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request

01/13/2020

Forensic Scientist

Celena Shrum

Analytical Methods

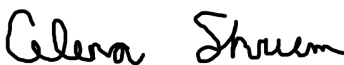
Toxicology AM #25, Toxicology AM #26/27, and AM #28

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.



Date: 01/13/2020

Celena Shrum

Toxicology Discipline Lead

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

Extraction Date: 03/05/20
 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
Blank Blood Lot: Hemostat 445283-3
LCMS-QQQ ID: 069901

Mobile phase B: 0.01% Formic Acid in MeOH
 Ethyl Acetate 20% Methanol in Water
Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: #16**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250 µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300 µL of blood+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 067104
- 8. Wait 5 minutes.
- 9. Add **900 µL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 12. Add **900 µL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(12-15 PSI- Selector to the left).*
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 067103
- 16. Reconstitute in **100 µL 20% LCMS MeOH in water** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
 Worklist path: D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP Batch Name: AM 28
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² 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 5-500, amphetamine 5-500, lamotrigine 5-250, lorazepam 5-100, meprobamate 5-500, mirtazapine 5-250, norbuprenorphine 1-100, norfentanyl 0.5-50*



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	

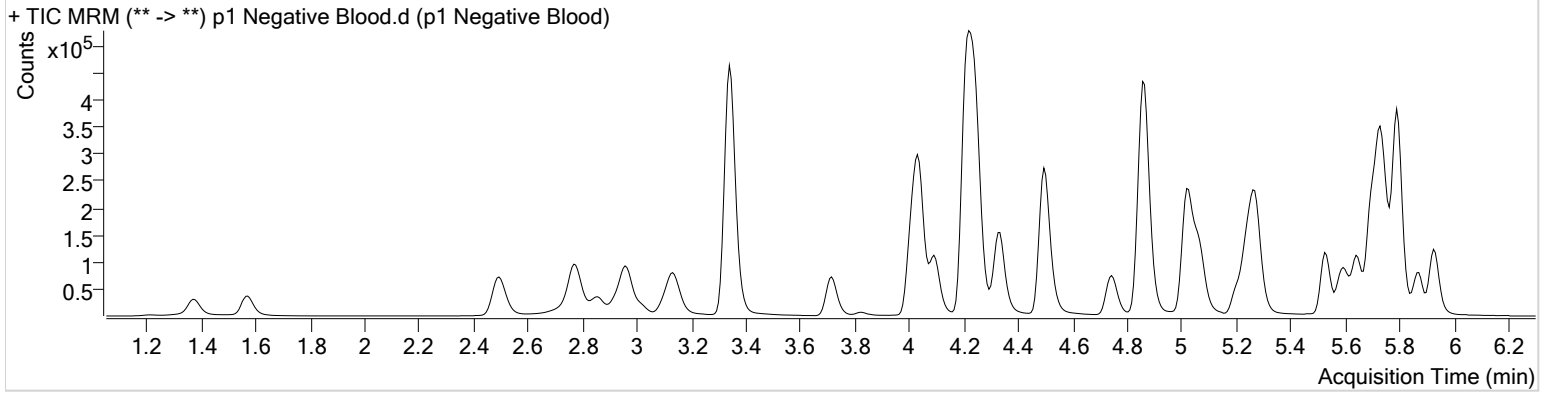
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Negative Blood.d
Type	Sample	Sample	p1 Negative Blood
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-D11	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 8:55:51 PM		
Sample Info.			

Sample Chromatogram



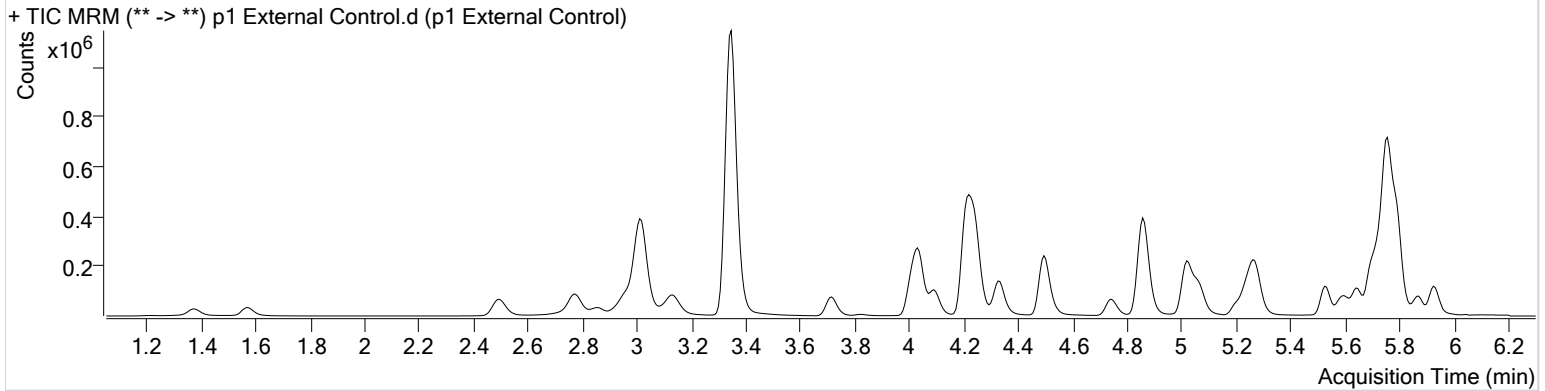
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 External Control.d
Type	Sample	Sample	p1 External Control
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-C11	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 9:06:27 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	684527	∞	102.5	2055.64	199082	88.8560 ng/ml
Amphetamine	3.014	771037	41317.21	58.7	25924.22	115639	90.7591 ng/ml
O-desmethyl-tramadol	3.348	2068696	51349.63	6.0	1397.34	1185551	94.2256 ng/ml

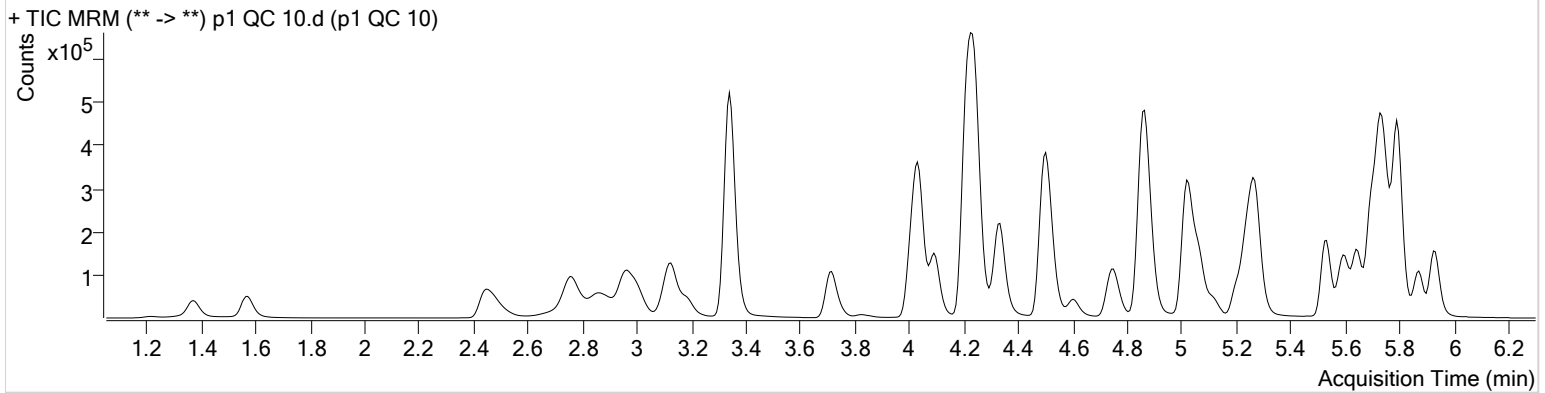
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 QC 10.d
Type	QC	Sample	p1 QC 10
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-H11	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 7:20:25 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	2179	1892.00	69.4	∞	49450	0.9811 ng/ml
7-aminoclonazepam	4.231	48387	348.66	79.0	1892.96	202306	10.0058 ng/ml
a-hydroxyalprazolam	5.680	21799	358.69	63.6	1519.00	49149	10.1529 ng/ml
alpha-PVP	4.344	100710	2442.94	51.2	299.35	457509	9.9876 ng/ml
Alprazolam	5.756	85700	580.39	101.0	790.58	213582	10.4197 ng/ml
Amphetamine	2.994	113088	2789.62	63.8	970.82	161439	8.3793 ng/ml
Benzoylcegonine	3.847	4183	215.07	7.2	∞	15954	10.1822 ng/ml
Buprenorphine	5.780	1753	149.45	18.8	187.69	64811	0.9609 ng/ml
Bupropion	4.766	72836	482.31	58.5	423.58	263469	9.9668 ng/ml
Carisoprodol	5.705	70875	2879.34	54.3	209.58	350307	10.0611 ng/ml
Citalopram	5.209	36568	289.96	42.1	141.93	163737	10.0007 ng/ml
Clonazepam	5.593	101853	2570.52	32.6	5711.88	118700	10.4600 ng/ml
Cocaine	4.243	111937	1038.54	44.6	∞	891726	9.8499 ng/ml
Codeine	2.489	13741	335.92	100.0	520.23	60614	10.2235 ng/ml
Cyclobenzaprine	5.617	26993	469.53	9.4	32.55	103079	10.0459 ng/ml
Dextromethorphan	5.252	19362	400.46	79.9	619.33	88787	10.2901 ng/ml
Dextrorphan	4.100	22691	754.72	212.6	852.08	288962	9.9851 ng/ml
Diazepam	5.934	59861	840.13	87.6	647.55	273016	10.1279 ng/ml
Dihydrocodeine	2.467	33347	505.01	68.1	333.17	189761	9.0707 ng/ml
Diphenhydramine	5.279	81916	4564.21	33.7	522.91	577279	10.3877 ng/ml
Doxylamine	4.514	206713	10457.68	98.7	5518.87	900239	9.6712 ng/ml
EDDP	5.244	61975	561.89	43.0	491.83	331649	9.9870 ng/ml
Fentanyl	5.079	2676	299.69	61.0	4224.89	137655	1.0325 ng/ml
Fluoxetine	5.702	31610	4717.22	8.4	234.83	127404	10.5740 ng/ml
Hydrocodone	2.985	38859	174.19	42.1	161.28	246527	10.2284 ng/ml
Hydromorphone	1.581	29820	338.25	78.3	492.96	114326	9.7282 ng/ml
Ketamine	4.026	97818	681.51	37.2	342.35	445819	10.1677 ng/ml
Lamotrigine	4.254	9729	1149.69	81.3	∞	445819	10.6229 ng/ml
Lorazepam	5.728	82243	254.76	58.3	561.19	118700	10.3142 ng/ml
Meprobamate	4.875	32776	2068.35	27.2	∞	175529	9.6130 ng/ml
Methadone	5.648	52715	∞	54.0	1755.82	254252	10.2439 ng/ml
Methamphetamine	3.188	80393	891.07	42.9	990.72	326084	9.9809 ng/ml
Metoprolol	4.306	14972	1286.11	96.2	∞	1112226	9.6859 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	71268	3894.78	50.0	583.80	457509	8.5768 ng/ml
Mitragynine	5.214	8885	9219.68	39.4	7944.23	254252	10.3435 ng/ml
Morphine	1.220	4266	1321.38	25.2	258.61	4327	9.8346 ng/ml
Norbuprenorphine	4.983	142	16.34	77.1	7.68 Low	7391	0.8821 ng/ml
Nordiazepam	5.874	56563	∞	56.9	638.04	169457	10.6010 ng/ml
Norfentanyl	4.061	14855	44633.45	39.5	537.14	680195	0.9398 ng/ml
Norhydrocodone	3.032	3648	229.92	47.9	34.14	39994	9.2253 ng/ml
Noroxycodone	2.869	36175	668.76	49.9	462.26	116087	9.8098 ng/ml
O-desmethyl-tramadol	3.348	237880	4100.06	5.9	496.76	1259287	10.1182 ng/ml
Oxazepam	5.738	97367	∞	68.6	667.80	563226	10.6635 ng/ml
Oxycodone	2.787	82053	630.06	31.7	363.25	374161	10.3884 ng/ml
Oxymorphone	1.376	29310	494.13	49.1	∞	106982	9.7510 ng/ml
Phentermine	3.745	26235	949.57	2.8	56.41	319247	10.1571 ng/ml
Promethazine	5.534	61509	1272.04	31.6	419.61	274974	10.4280 ng/ml
Quetiapine	5.537	47434	11910.90	59.9	3819.10	59892	10.8998 ng/ml
Sertraline	5.770	18460	351.55	89.4	1817.68	76367	10.7688 ng/ml
Temazepam	5.798	156761	1045.97	29.7	368.30	830064	9.9227 ng/ml
Tramadol	4.226	223781	23914.76	3.4	794.52	1112226	10.4684 ng/ml
Trazodone	5.119	56425	3577.63	78.5	3889.58	224057	10.6892 ng/ml
Venlafaxine	5.020	139919	2465.49	36.1	545.02	729157	10.3296 ng/ml
Zolpidem	4.884	239199	657.58	30.4	3326.07	1102691	10.2272 ng/ml

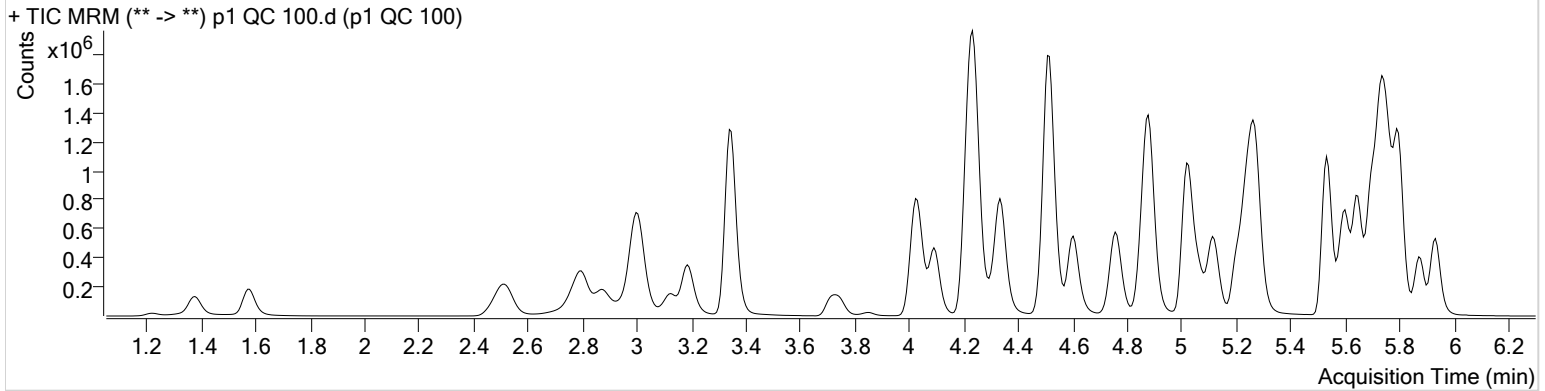
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 QC 100.d
Type	QC	Sample	p1 QC 100
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-G11	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 7:41:37 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	22649	42056.39	70.1	3354.87	51523	10.1970 ng/ml
7-aminoclonazepam	4.231	428473	810.71	80.4	7256.95	188095	101.2289 ng/ml
a-hydroxyalprazolam	5.680	189599	830.82	64.7	439.85	46879	96.6546 ng/ml
alpha-PVP	4.337	1116527	3554.63	50.7	2562.47	515061	95.1780 ng/ml
Alprazolam	5.756	751546	3792.41	101.3	1479.50	195873	99.1471 ng/ml
Amphetamine	3.007	1358171	29107.86	54.0	14356.79	178175	103.9443 ng/ml
Benzoylcegonine	3.847	39524	12790.29	7.6	406.63	15407	100.5748 ng/ml
Buprenorphine	5.780	29729	∞	17.7	5885.06	107602	10.0894 ng/ml
Bupropion	4.759	950602	36760.08	58.1	799.65	342525	101.0513 ng/ml
Carisoprodol	5.705	625774	873.36	55.0	939.21	320157	100.2332 ng/ml
Citalopram	5.209	584078	2464.05	40.6	35752.21	270008	97.6125 ng/ml
Clonazepam	5.593	917188	6921.56	33.5	157085.04	115928	102.2045 ng/ml
Cocaine	4.244	1117575	221529.48	44.1	40139.92	905364	94.3119 ng/ml
Codeine	2.536	138475	175.53	100.9	1694.77	60637	106.7166 ng/ml
Cyclobenzaprine	5.617	462799	10706.71	9.8	2866.56	183181	96.5551 ng/ml
Dextromethorphan	5.252	319323	17241.31	79.0	892.31	149967	98.3203 ng/ml
Dextrorphan	4.093	267890	9371.91	210.3	102579.39	341739	102.0087 ng/ml
Diazepam	5.934	572011	2172.39	87.6	∞	266857	100.9012 ng/ml
Dihydrocodeine	2.508	339834	3836.79	68.2	11614.50	196162	107.4012 ng/ml
Diphenhydramine	5.279	1311191	61722.64	33.3	756.58	941117	96.3120 ng/ml
Doxylamine	4.514	2413952	13013.45	96.4	275870.64	1054567	101.5486 ng/ml
EDDP	5.244	877755	3178.42	41.9	10596.24	480423	99.2589 ng/ml
Fentanyl	5.079	47450	1176.77	64.5	82261.85	259340	9.9924 ng/ml
Fluoxetine	5.702	515940	37604.96	8.8	∞	216929	101.8577 ng/ml
Hydrocodone	2.985	379967	∞	40.6	896.32	261337	102.1579 ng/ml
Hydromorphone	1.581	287107	6056.58	78.1	∞	112400	97.2982 ng/ml
Ketamine	4.026	995143	2515.13	37.9	1518.21	466710	102.8345 ng/ml
Lamotrigine	4.254	88322	∞	79.2	9277.30	466710	99.0336 ng/ml
Lorazepam	5.728	671219	1575.95	56.5	4846.22	115928	95.0413 ng/ml
Meprobamate	4.875	300292	21095.00	26.3	19076.16	161112	106.2405 ng/ml
Methadone	5.648	898894	5612.52	54.0	5164.47	437317	97.1206 ng/ml
Methamphetamine	3.188	780905	4431.66	42.4	1397.77	332051	104.5733 ng/ml
Metoprolol	4.306	166839	233674.32	96.2	8644.26	1197401	103.1709 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	1030060	63405.40	49.1	6748.97	515061	109.2658 ng/ml
Mitragynine	5.214	155790	7131.68	39.4	23889.82	437317	106.3602 ng/ml
Morphine	1.220	42275	2847.12	23.5	135.13	4396	101.7366 ng/ml
Norbuprenorphine	4.976	2638	169.48	78.9	134.13	12721	9.8752 ng/ml
Nordiazepam	5.874	530331	2241.24	57.3	1363.30	168313	102.3096 ng/ml
Norfentanyl	4.061	166183	1049.69	37.1	541.33	723827	9.6932 ng/ml
Norhydrocodone	3.039	35808	203.06	41.8	64.46	35301	92.3948 ng/ml
Noroxycodone	2.876	358139	993.25	49.3	918.51	114573	100.2143 ng/ml
O-desmethyl-tramadol	3.348	2359024	6909.74	6.0	12809.70	1272615	100.1043 ng/ml
Oxazepam	5.738	800641	16182.08	71.3	∞	496872	101.9489 ng/ml
Oxycodone	2.794	826768	5023.11	32.0	3138.29	388679	104.6104 ng/ml
Oxymorphone	1.376	278833	∞	47.8	1758.95	102999	100.2033 ng/ml
Phentermine	3.745	281011	4976.23	2.6	720.63	350014	104.6843 ng/ml
Promethazine	5.534	1082975	234261.55	30.7	1365.72	499354	96.7504 ng/ml
Quetiapine	5.537	634537	21231.11	58.7	611.97	86357	102.8637 ng/ml
Sertraline	5.770	270506	2038.43	89.5	233877.41	123101	94.3849 ng/ml
Temazepam	5.798	1501805	2542.12	30.1	2632.06	787418	100.8169 ng/ml
Tramadol	4.220	2250852	57352.68	3.3	647.37	1197401	105.5523 ng/ml
Trazodone	5.113	879530	56990.75	79.4	147132.28	387245	98.0510 ng/ml
Venlafaxine	5.020	1605179	12892.19	36.9	17035.04	865915	95.3091 ng/ml
Zolpidem	4.878	2384273	64685.40	30.1	83164.55	1126358	103.1156 ng/ml

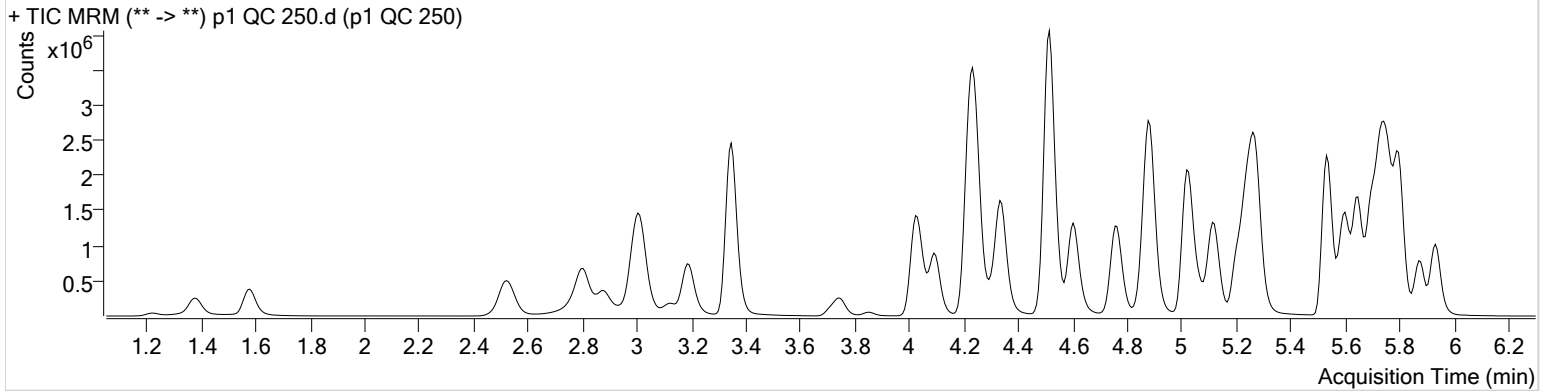
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 QC 250.d
Type	QC	Sample	p1 QC 250
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-F11	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 8:02:51 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	55367	2108.04	72.8	1456.29	49647	25.9389 ng/ml
7-aminoclonazepam	4.231	819215	2922.45	80.6	57063.86	153959	237.3862 ng/ml
a-hydroxyalprazolam	5.680	414514	5747.81	61.5	603.16	40461	245.6000 ng/ml
alpha-PVP	4.344	2652561	169516.83	51.1	1664.13	479694	242.2314 ng/ml
Alprazolam	5.756	1577266	1757.67	103.9	∞	162157	251.2548 ng/ml
Amphetamine	3.014	2908092	∞	53.6	22893.31	167993	237.6938 ng/ml
Benzoylcegonine	3.853	96804	2591.79	7.9	5894.05	15088	251.7128 ng/ml
Buprenorphine	5.780	70024	4526.30	16.6	1008.17	99388	25.7751 ng/ml
Bupropion	4.766	2312969	∞	57.9	2936.86	330896	254.6823 ng/ml
Carisoprodol	5.705	1283187	1346.59	55.0	11140.30	260713	252.9293 ng/ml
Citalopram	5.202	1397069	1384.09	40.7	1284.92	253151	249.1628 ng/ml
Clonazepam	5.593	1978543	∞	33.8	1733953.07	101345	253.2278 ng/ml
Cocaine	4.243	2517067	82306.58	43.9	71716.19	792164	242.3144 ng/ml
Codeine	2.543	298145	50873.58	103.2	13330.43	54563	255.9137 ng/ml
Cyclobenzaprine	5.617	1123294	77139.25	9.8	2137.49	173582	247.2507 ng/ml
Dextromethorphan	5.252	737605	547.32	80.3	13931.22	137780	246.8263 ng/ml
Dextropropion	4.100	628454	456300.15	210.6	2103.49	320539	255.5234 ng/ml
Diazepam	5.934	1263324	3000.52	88.8	4349.04	237322	250.8997 ng/ml
Dihydrocodeine	2.514	788970	1974.39	67.4	2141.34	186380	265.3628 ng/ml
Diphenhydramine	5.279	3224699	567.23	33.1	1011.84	898285	247.1455 ng/ml
Doxylamine	4.514	5817021	397026.82	97.0	31516.21	998628	259.2991 ng/ml
EDDP	5.244	2070611	103405.30	42.1	1458.60	448490	251.1027 ng/ml
Fentanyl	5.079	124465	20372.14	63.3	∞	262340	25.9632 ng/ml
Fluoxetine	5.702	1168650	25323.22	9.0	265926.06	196792	254.4108 ng/ml
Hydrocodone	2.991	858895	819.18	40.5	412.84	252969	239.8286 ng/ml
Hydromorphone	1.581	674583	∞	78.0	∞	104253	246.8306 ng/ml
Ketamine	4.026	2355097	25197.75	37.8	47635.41	446882	254.8449 ng/ml
Lamotrigine	4.254	174750	5967.10	79.8	67266.63	446882	205.5981 ng/ml
* Lorazepam	5.728	1132019	1935.55	57.6	36459.11	101345	184.4712 ng/ml
Meprobamate	4.875	594030	28757.73	26.5	244.43	140254	242.8743 ng/ml
Methadone	5.648	2181078	119852.21	54.1	1165.43	422441	243.2002 ng/ml
Methamphetamine	3.188	1704521	17126.94	42.6	4744.22	298952	255.0919 ng/ml
Metoprolol	4.306	390993	363034.25	96.4	∞	1081551	268.1808 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	2502329	∞	49.1	338839.82	479694	284.8958 ng/ml
Mitragynine	5.214	380102	28919.60	38.2	∞	422441	268.7924 ng/ml
Morphine	1.226	99408	4068.91	25.3	908.88	4059	260.1206 ng/ml
Norbuprenorphine	4.976	6445	242.67	83.0	1684.31	12637	24.3325 ng/ml
Nordiazepam	5.881	1173922	2691.25	56.9	1364.87	148646	256.8325 ng/ml
Norfentanyl	4.061	394350	5823.34	37.3	∞	660758	25.1660 ng/ml
Norhydrocodone	3.039	82125	∞	44.2	165.52	28568	259.9985 ng/ml
Noroxycodone	2.876	796745	2322.96	47.7	970.50	101284	252.5016 ng/ml
O-desmethyl-tramadol	3.348	5668099	∞	5.9	12857.65	1191004	257.1497 ng/ml
Oxazepam	5.738	1515320	∞	70.3	∞	374360	256.5609 ng/ml
Oxycodone	2.800	1995187	6951.74	32.0	3404.26	368559	266.9142 ng/ml
Oxymorphone	1.376	616348	∞	48.1	1138.98	91547	249.8484 ng/ml
Phentermine	3.751	650193	10051.74	2.6	1024.26	328617	258.8965 ng/ml
Promethazine	5.534	2632406	∞	30.8	152852.80	478027	244.8948 ng/ml
Quetiapine	5.537	1464504	96332.01	60.8	33528.01	78168	262.6036 ng/ml
Sertraline	5.770	576162	14636.02	90.2	2341.18	99688	247.5430 ng/ml
Temazepam	5.798	3347444	2948.97	29.9	3160.49	703351	251.6741 ng/ml
Tramadol	4.219	5143461	3191.20	3.3	4510.12	1081551	268.4560 ng/ml
Trazodone	5.113	2221134	∞	79.3	145391.86	376970	254.6907 ng/ml
Venlafaxine	5.020	3924927	79781.29	36.1	15844.87	820862	245.0211 ng/ml
Zolpidem	4.884	5547463	∞	30.2	68686.56	1044550	259.2790 ng/ml

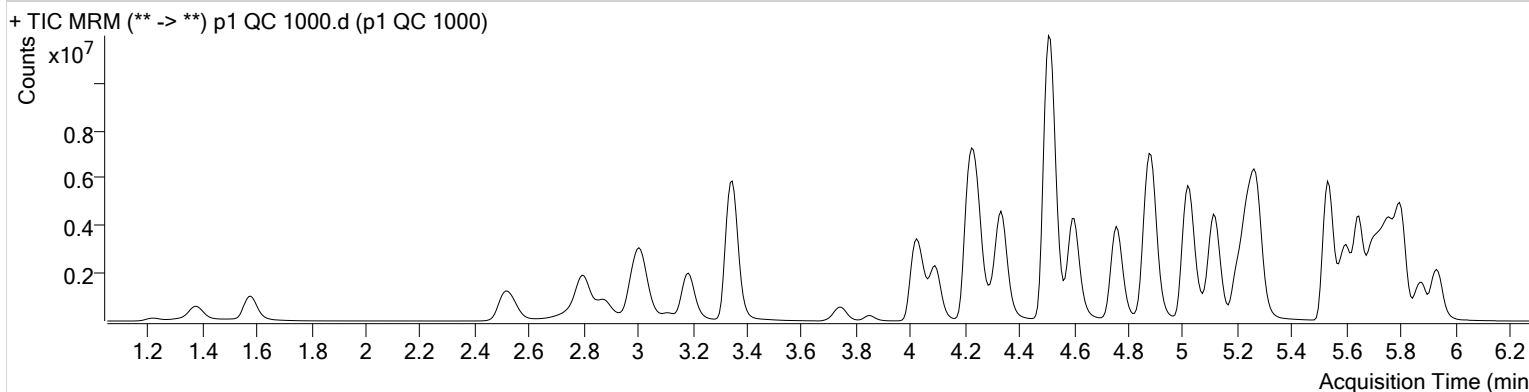


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument Falco **Data File** p1 QC 1000.d
Type QC **Sample** p1 QC 1000
Acq. Method MDQ P1 01112020.m **Operator** Sarah Pickle
Sample Position P1-E11 **Comment**
Injection Volume 2
Acq. Date-Time 3/5/2020 8:24:02 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	213285	3935.18	71.1	27617.16	47534	104.5016 ng/ml
* 7-aminoclonazepam	4.231	1252073	56971.72	80.3	∞	81819	684.0179 ng/ml
a-hydroxyalprazolam	5.673	940588	4296.39	63.0	1414.54	24121	936.2549 ng/ml
alpha-PVP	4.337	8514808	8515.84	50.3	29030.97	371457	1003.0127 ng/ml
Alprazolam	5.756	3779987	∞	102.6	3129.92	93911	1039.5461 ng/ml
* Amphetamine	3.014	6574052	93425.27	51.9	130295.62	138782	652.6764 ng/ml
Benzoylcegonine	3.847	434691	17048.19	7.8	1275.05	15704	1086.2841 ng/ml
Buprenorphine	5.780	187136	∞	16.0	457.65	66160	103.5678 ng/ml
Bupropion	4.759	7626289	34666.00	58.0	86374.89	274643	1012.0572 ng/ml
Carisoprodol	5.705	2476429	941.73	53.1	43762.31	129426	984.2879 ng/ml
Citalopram	5.202	3782686	28891.87	40.4	1200.69	170508	1001.8736 ng/ml
Clonazepam	5.593	4486309	103511.10	32.7	2783.12	63924	912.1352 ng/ml
Cocaine	4.244	6836133	537776.43	43.5	148676.49	530063	982.6366 ng/ml
Codeine	2.543	794001	4424.91	101.1	21883.14	39440	943.9699 ng/ml
Cyclobenzaprine	5.617	3034374	1776.67	9.7	3446.86	115381	1004.6731 ng/ml
Dextromethorphan	5.245	1657800	1445.79	79.0	977.54	75408	1012.8384 ng/ml
Dextrorphan	4.093	1918520	105918.78	209.8	58816.27	239054	1046.7438 ng/ml
Diazepam	5.934	3276207	1992.45	87.3	6967.81	157576	980.5748 ng/ml
Dihydrocodeine	2.514	2300515	90425.84	68.7	61188.91	172481	840.4716 ng/ml
Diphenhydramine	5.279	9031139	2451.96	32.6	979.16	605956	1024.0452 ng/ml
Doxylamine	4.508	19620928	570744.67	96.5	∞	912407	958.8137 ng/ml
EDDP	5.244	7164538	4202.89	41.2	32425.44	372964	1045.3674 ng/ml
Fentanyl	5.079	379239	50722.31	65.6	2024029.30	195868	106.0570 ng/ml
Fluoxetine	5.702	2838514	4285.21	8.6	168093.89	118847	1023.3807 ng/ml
Hydrocodone	2.985	2657919	∞	39.9	∞	217238	866.7112 ng/ml
Hydromorphone	1.581	2142761	∞	78.5	∞	83757	976.5809 ng/ml
Ketamine	4.026	7385445	238456.41	36.8	63388.83	371826	961.7766 ng/ml
* Lamotrigine	4.261	329615	∞	80.6	127272.21	371826	467.2240 ng/ml
Lorazepam	5.728	1233523	∞	55.7	66.72	63924	319.5589 ng/ml
* Meprobamate	4.861	1031392	31024.42	26.1	13543.05	93220	636.3071 ng/ml
Methadone	5.648	6416950	3692.90	52.7	3303.84	296204	1018.8703 ng/ml
Methamphetamine	3.188	4890364	14218.17	42.1	28123.52	243148	902.6136 ng/ml
Metoprolol	4.299	1098454	13031.54	96.9	7736.31	828624	984.2329 ng/ml

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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
* Mirtazapine	4.602	8464452	1816232.15	48.8	2183951.87	371457	1244.2621 ng/ml
Mitragynine	5.214	993195	168598.62	39.3	50208.46	296204	1001.9466 ng/ml
Morphine	1.220	326353	∞	24.0	∞	3765	922.3173 ng/ml
Norbuprenorphine	4.976	19833	1332.07	82.1	3522.39	10471	90.4553 ng/ml
Nordiazepam	5.881	2847028	3963.39	56.8	3127.94	91734	1010.0824 ng/ml
* Norfentanyl	4.061	1297851	304925.39	37.5	17504.67	435343	125.6307 ng/ml
Norhydrocodone	3.032	296610	∞	40.4	∞	22267	1201.1150 ng/ml
Noroxycodone	2.876	2070671	10286.45	48.7	157.21	63968	1039.6602 ng/ml
O-desmethyl-tramadol	3.348	17361804	4792.23	5.8	4677.29	896757	1046.4045 ng/ml
Oxazepam	5.731	1935542	385813.15	75.2	6001.94	135876	903.6663 ng/ml
Oxycodone	2.794	6648023	∞	31.6	5413.11	330956	991.6145 ng/ml
Oxymorphone	1.376	1832225	∞	50.0	601.81	75147	905.9540 ng/ml
Phentermine	3.745	1814613	4274.28	2.5	3384.08	271397	876.3701 ng/ml
Promethazine	5.534	7479146	3164.13	30.2	3616.40	327440	1014.2028 ng/ml
Quetiapine	5.537	4470293	2022.08	59.8	18786.87	65620	955.4156 ng/ml
Sertraline	5.770	1142845	331784.16	87.7	776530.55	48425	1009.4604 ng/ml
Temazepam	5.805	8776699	1693.40	28.8	2347.48	420874	1102.9727 ng/ml
Tramadol	4.219	14272413	14461.23	3.2	2696.96	828624	974.7452 ng/ml
Trazodone	5.113	7775738	695295.76	78.2	827505.11	333479	1008.5080 ng/ml
Venlafaxine	5.020	12857442	312339.86	35.2	274403.08	652455	1008.2098 ng/ml
Zolpidem	4.878	17177185	654405.99	29.9	164778.44	890229	943.0004 ng/ml

*outside curve range

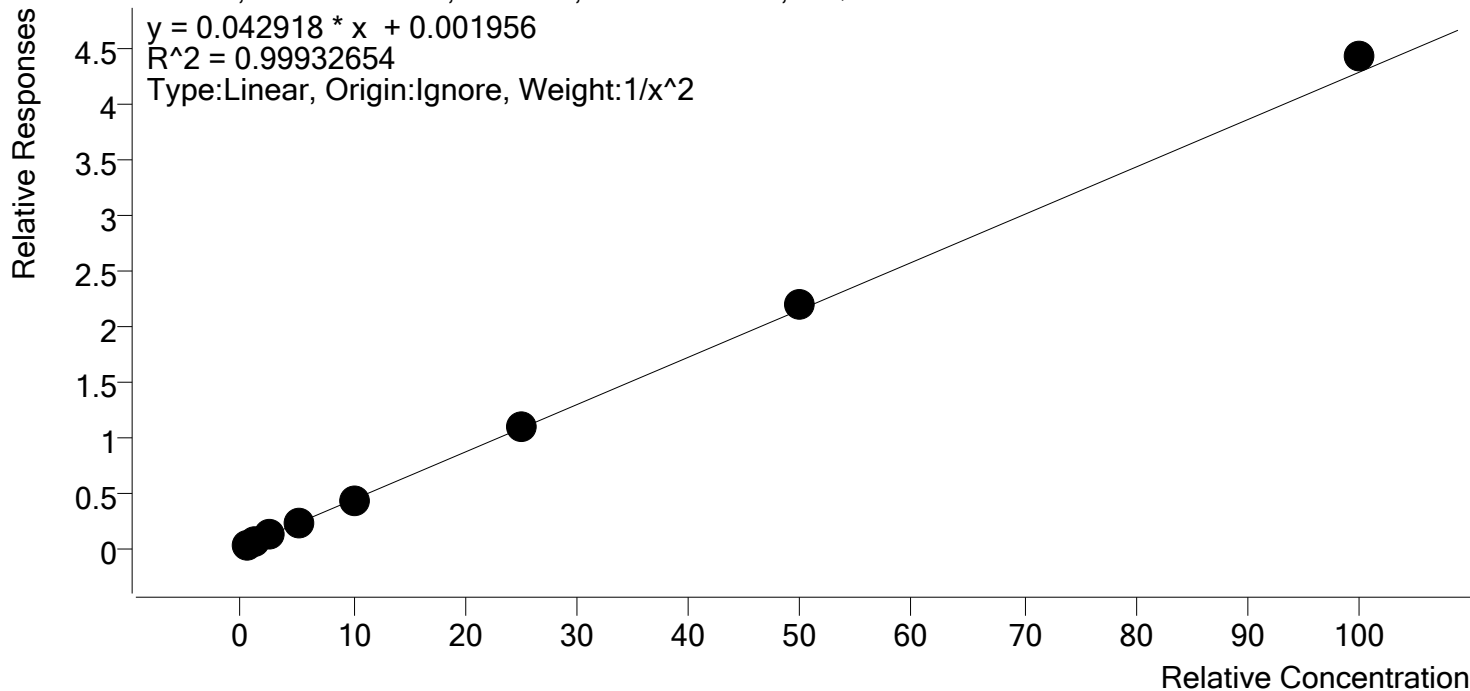
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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

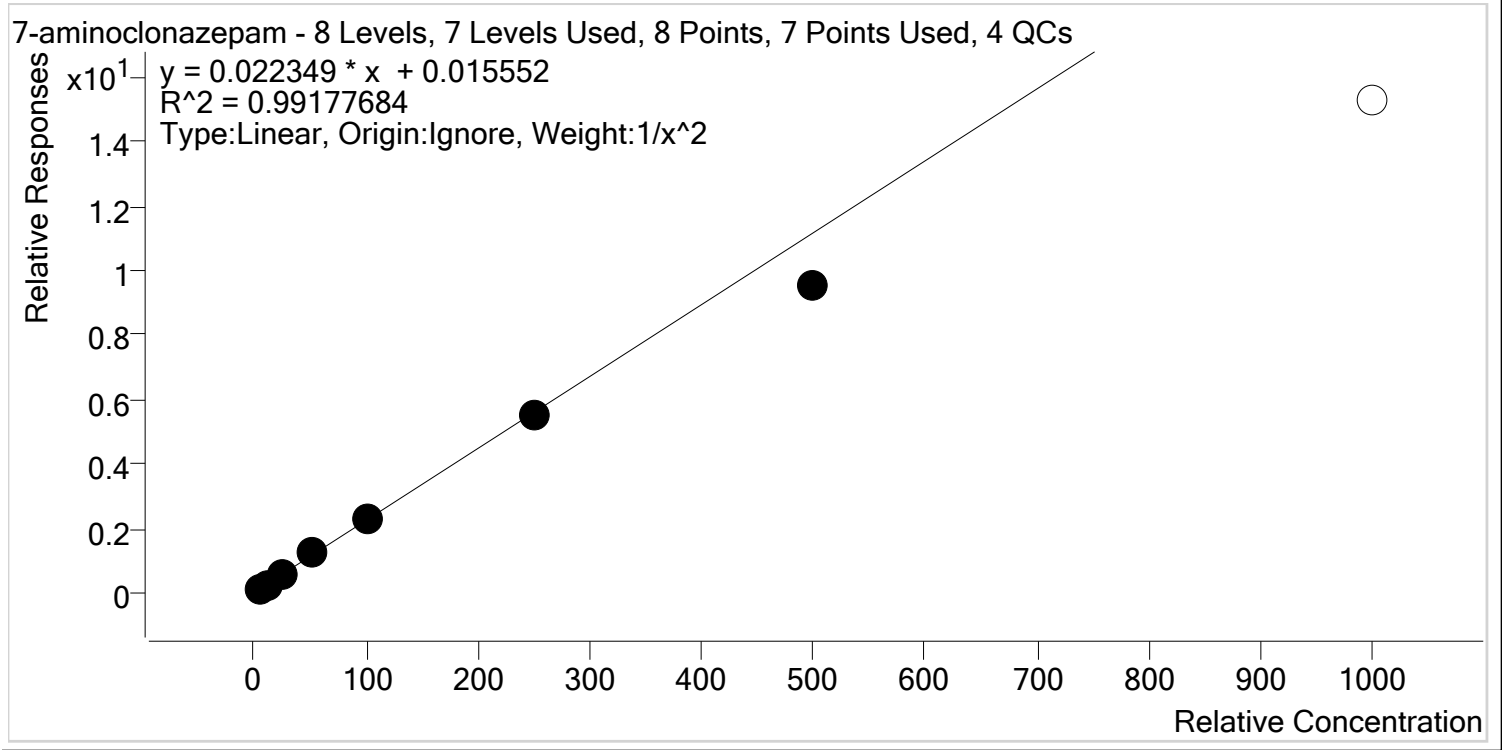


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.1
p1 Cal 3 -25ng	3	✓	2.5	2.5	99.4
p1 Cal 4-50ng	4	✓	5.0	5.0	99.0
p1 Cal 5-100ng	5	✓	10.0	9.6	96.2
p1 Cal 6-250ng	6	✓	25.0	25.3	101.1
p1 Cal 7-500ng	7	✓	50.0	50.8	101.5
p1 Cal 8-1000ng	8	✓	100.0	103.3	103.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



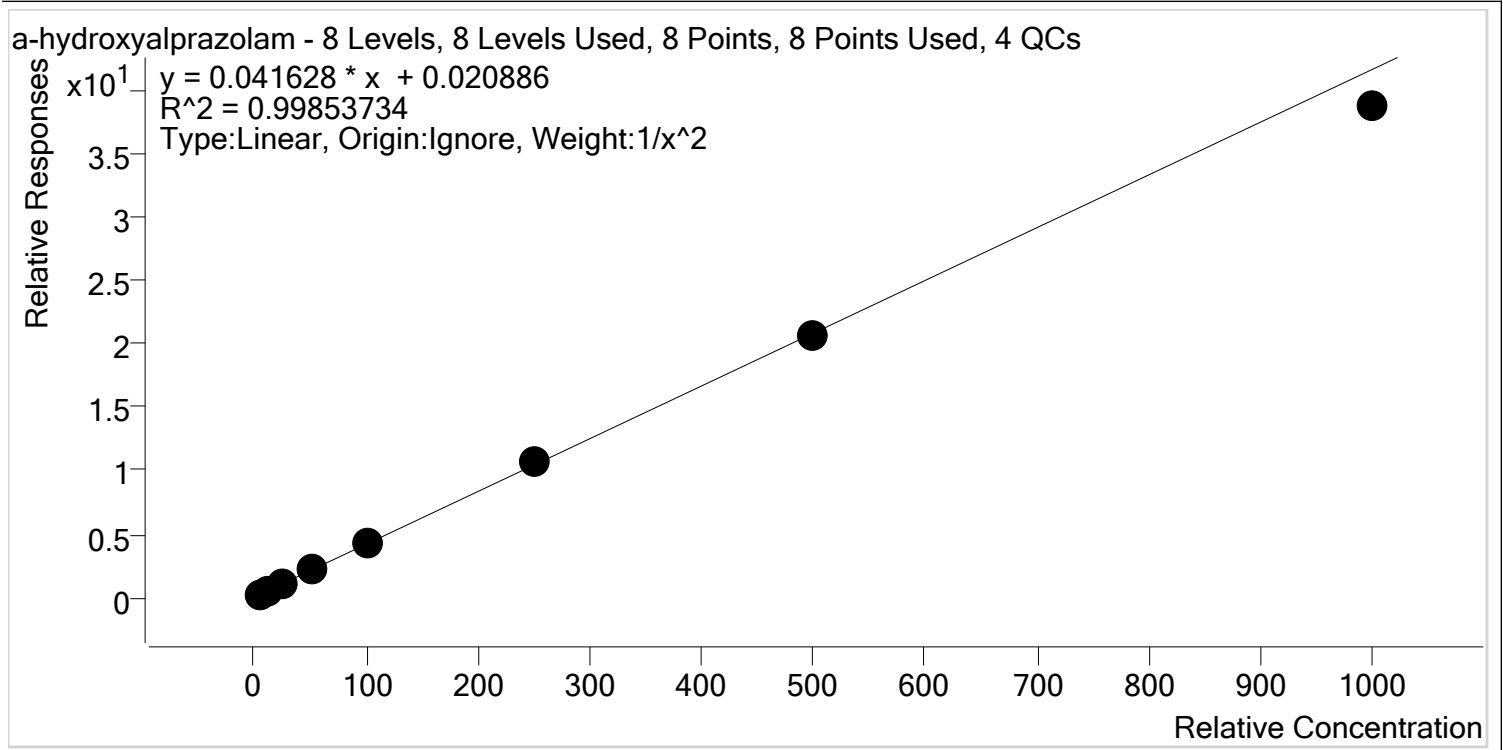
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	26.5	106.1
p1 Cal 4-50ng	4	✓	50.0	53.6	107.2
p1 Cal 5-100ng	5	✓	100.0	104.2	104.2
p1 Cal 6-250ng	6	✓	250.0	245.0	98.0
p1 Cal 7-500ng	7	✓	500.0	425.0	85.0
p1 Cal 8-1000ng	8	✗	1000.0	683.8	68.4

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



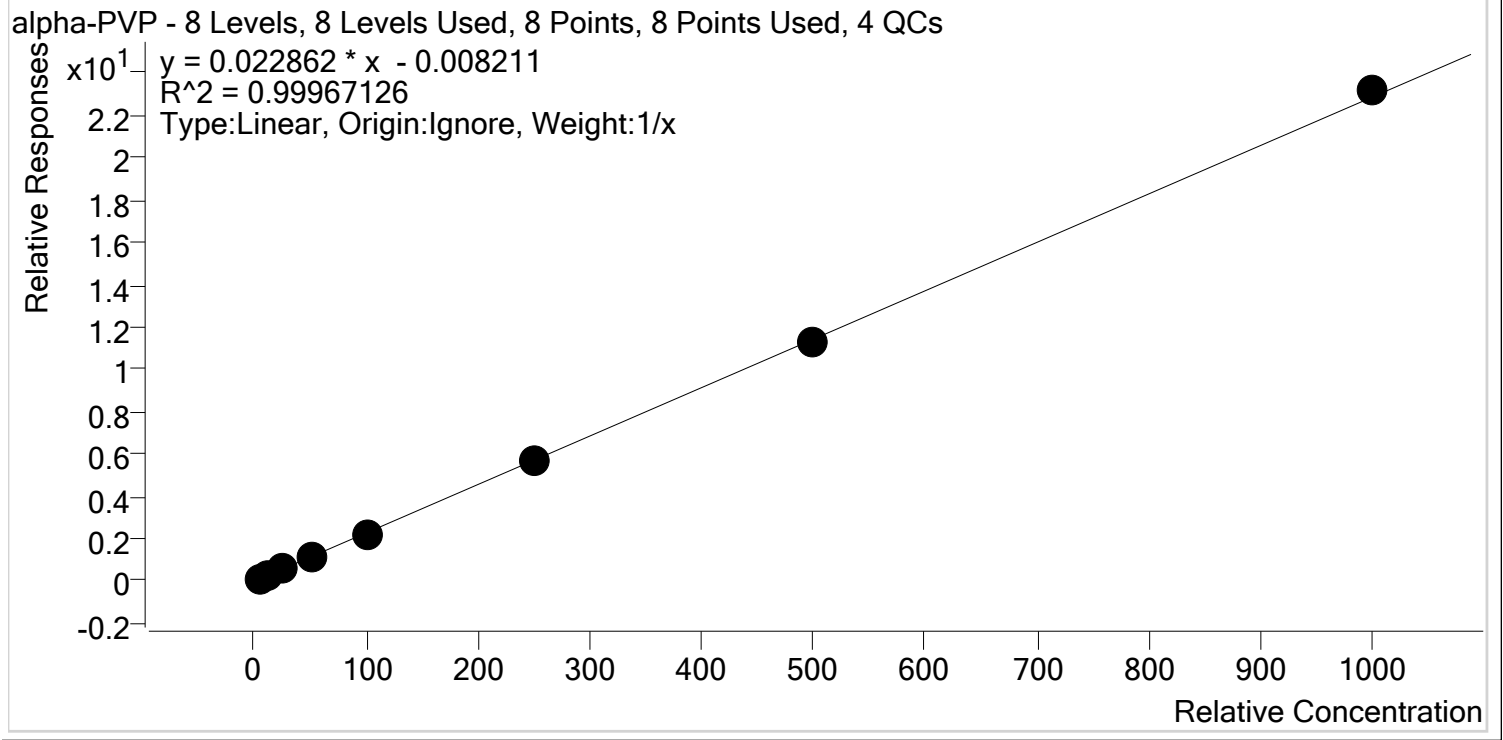
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	51.1	102.3
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	257.8	103.1
p1 Cal 7-500ng	7	✓	500.0	494.1	98.8
p1 Cal 8-1000ng	8	✓	1000.0	930.3	93.0

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8



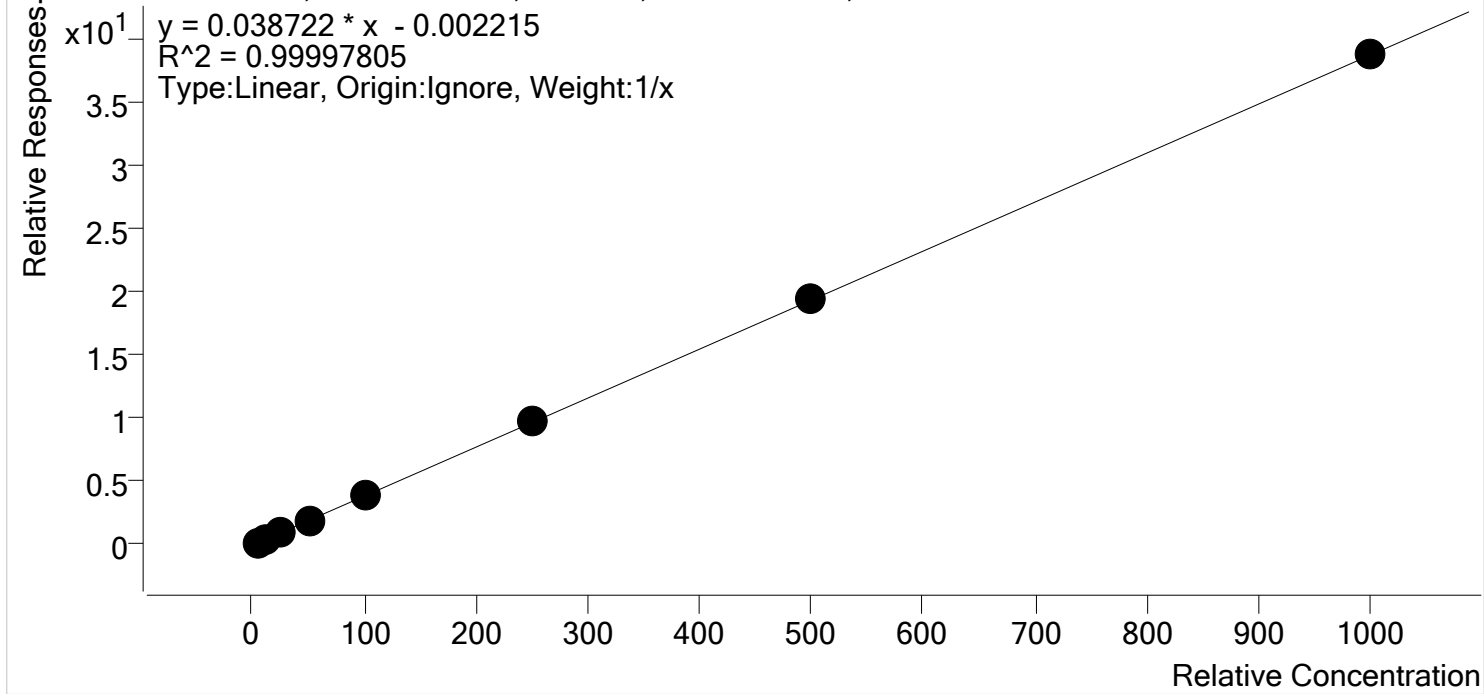
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.2
p1 Cal 4-50ng	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng	5	✓	100.0	94.9	94.9
p1 Cal 6-250ng	6	✓	250.0	247.4	98.9
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1013.5	101.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

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

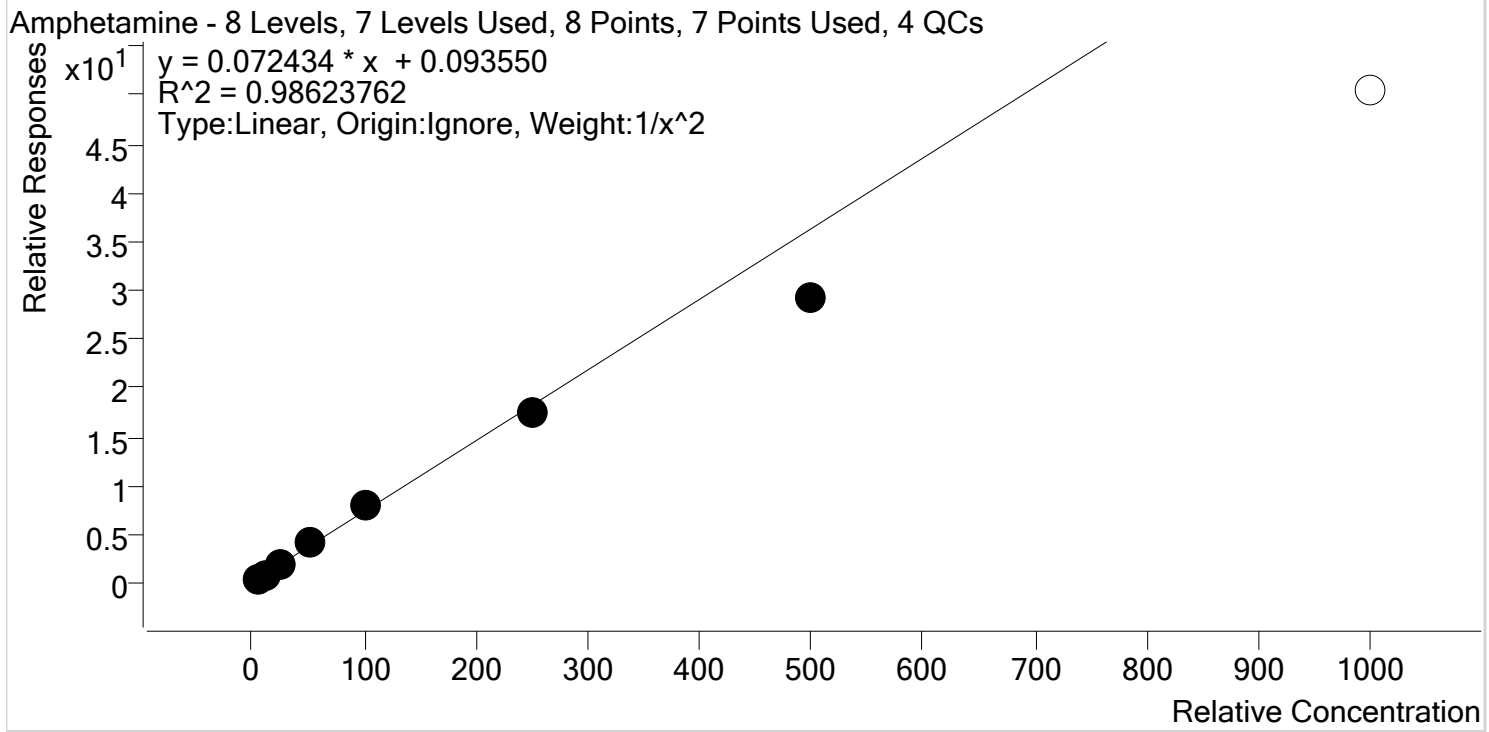


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	499.6	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1001.2	100.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

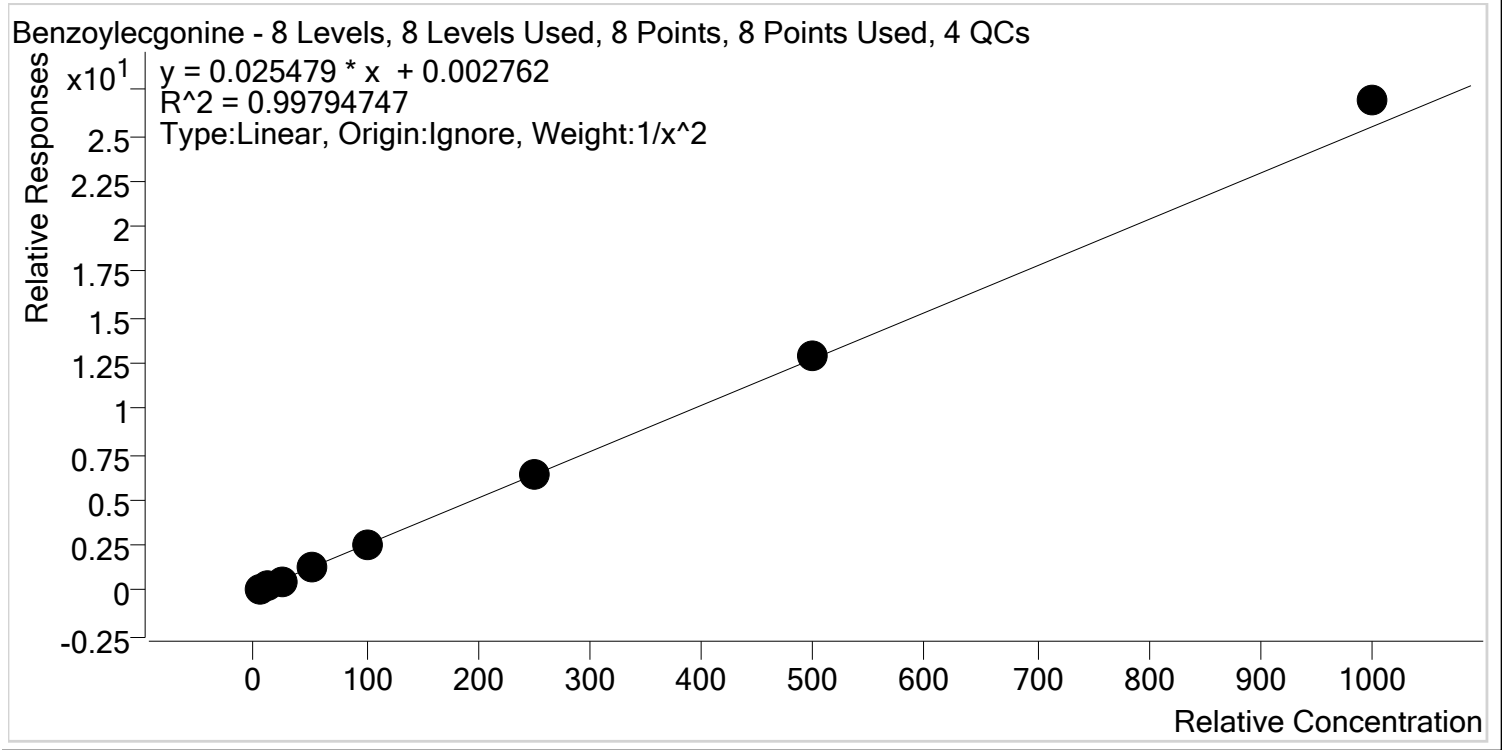


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.7
p1 Cal 4-50ng	4	✓	50.0	54.6	109.1
p1 Cal 5-100ng	5	✓	100.0	106.4	106.4
p1 Cal 6-250ng	6	✓	250.0	242.2	96.9
p1 Cal 7-500ng	7	✓	500.0	403.5	80.7
p1 Cal 8-1000ng	8	✗	1000.0	695.2	69.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8



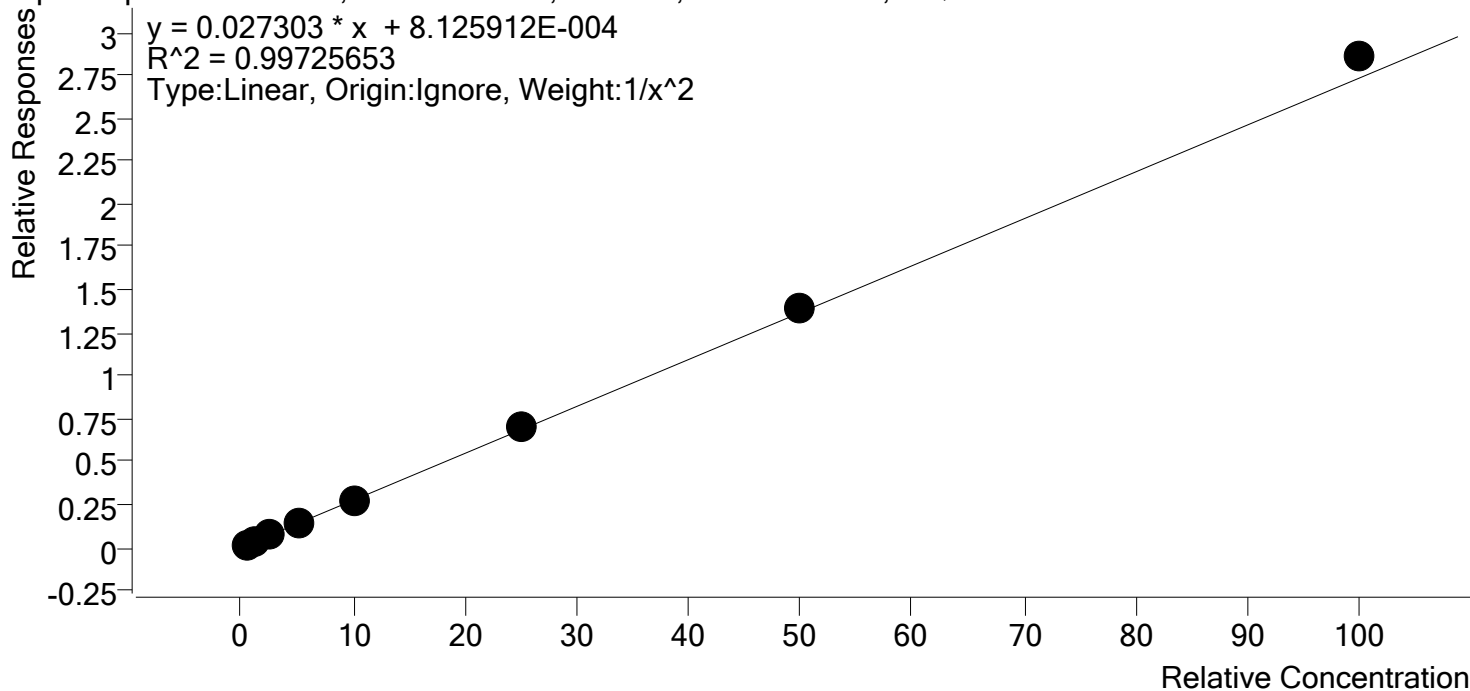
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
p1 Cal 3 -25ng	3	✓	25.0	23.4	93.6
p1 Cal 4-50ng	4	✓	50.0	48.6	97.2
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	251.6	100.7
p1 Cal 7-500ng	7	✓	500.0	509.5	101.9
p1 Cal 8-1000ng	8	✓	1000.0	1056.2	105.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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

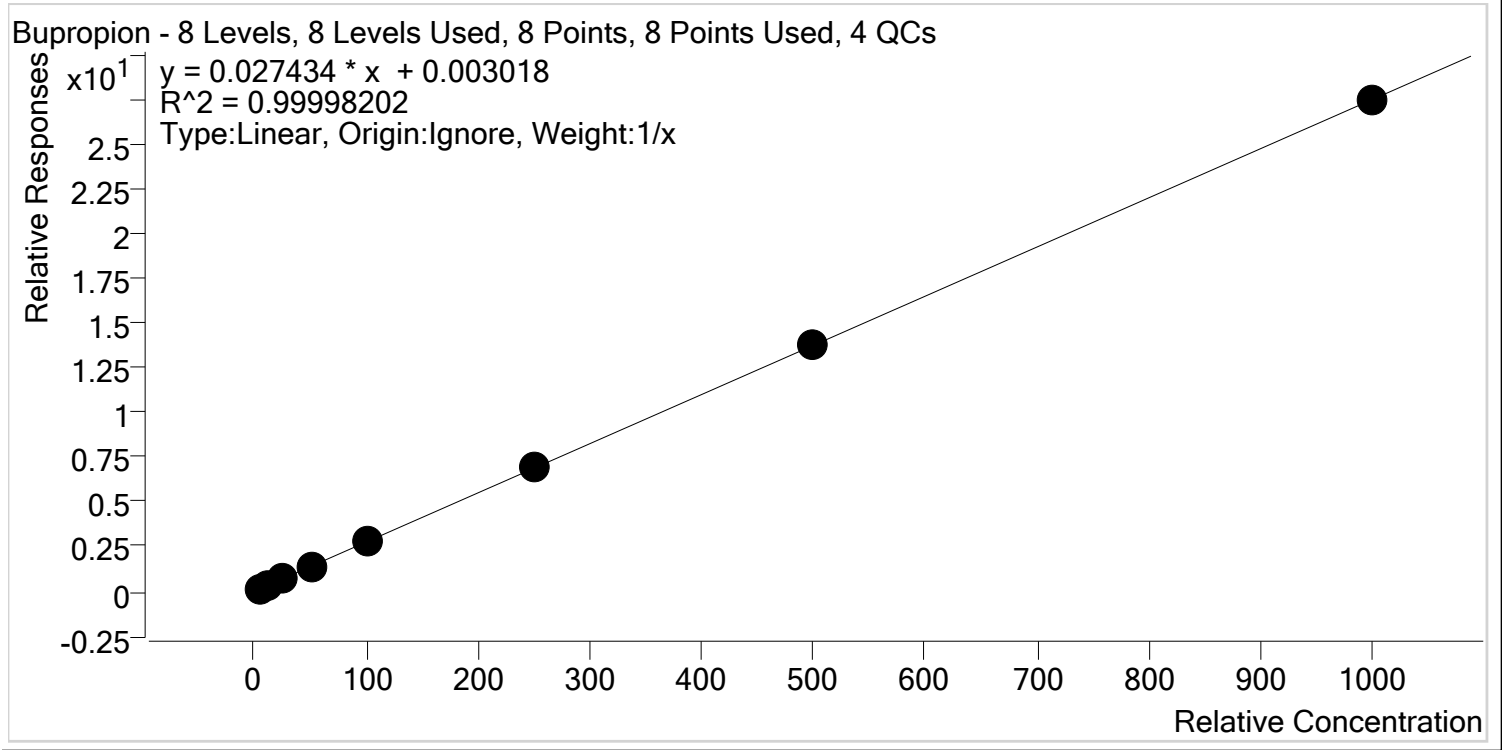


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	104.8
p1 Cal 2- 10ng	2	✓	1.0	0.9	92.5
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.1
p1 Cal 4-50ng	4	✓	5.0	4.8	96.9
p1 Cal 5-100ng	5	✓	10.0	9.9	99.2
p1 Cal 6-250ng	6	✓	25.0	26.0	104.0
p1 Cal 7-500ng	7	✓	50.0	50.9	101.9
p1 Cal 8-1000ng	8	✓	100.0	104.6	104.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	501.4	100.3
p1 Cal 8-1000ng	8	✓	1000.0	998.0	99.8

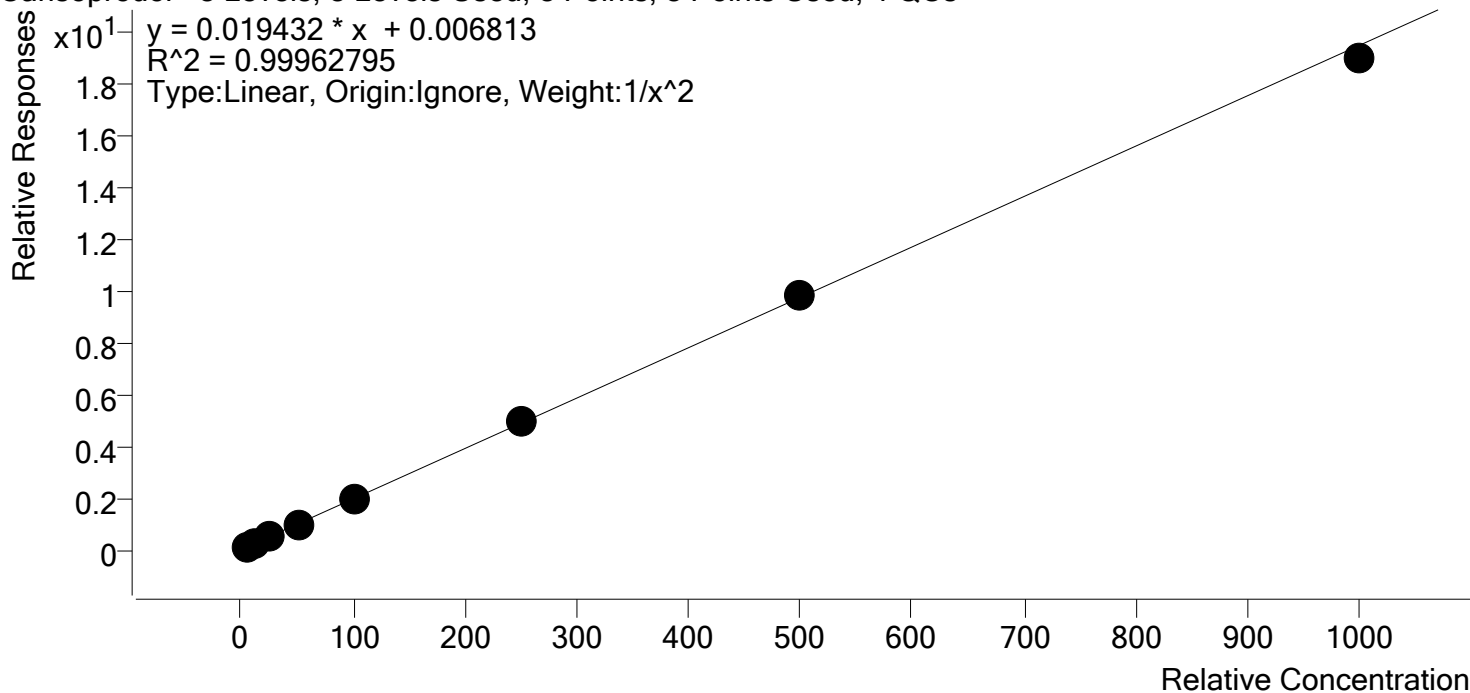
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

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

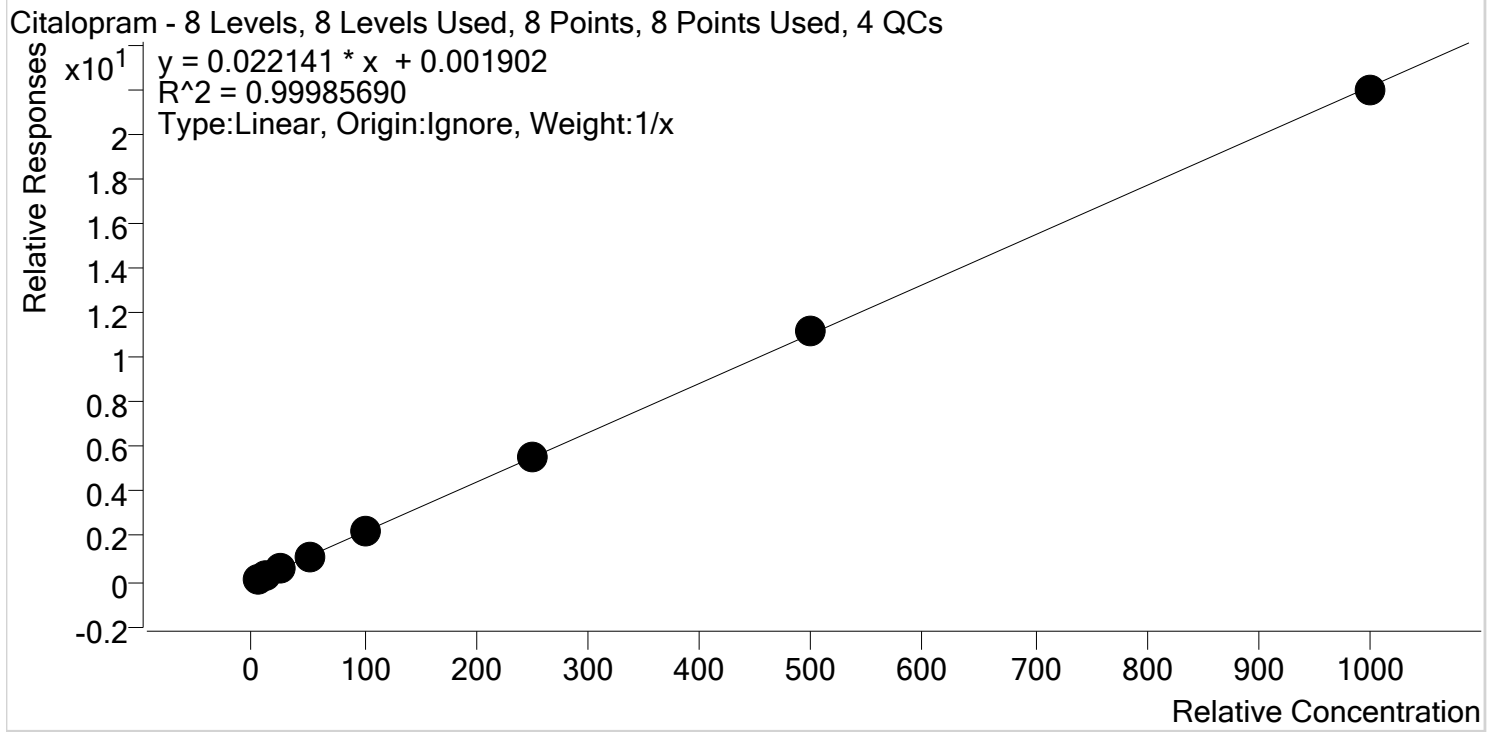


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	51.3	102.5
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	251.8	100.7
p1 Cal 7-500ng	7	✓	500.0	502.5	100.5
p1 Cal 8-1000ng	8	✓	1000.0	973.9	97.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

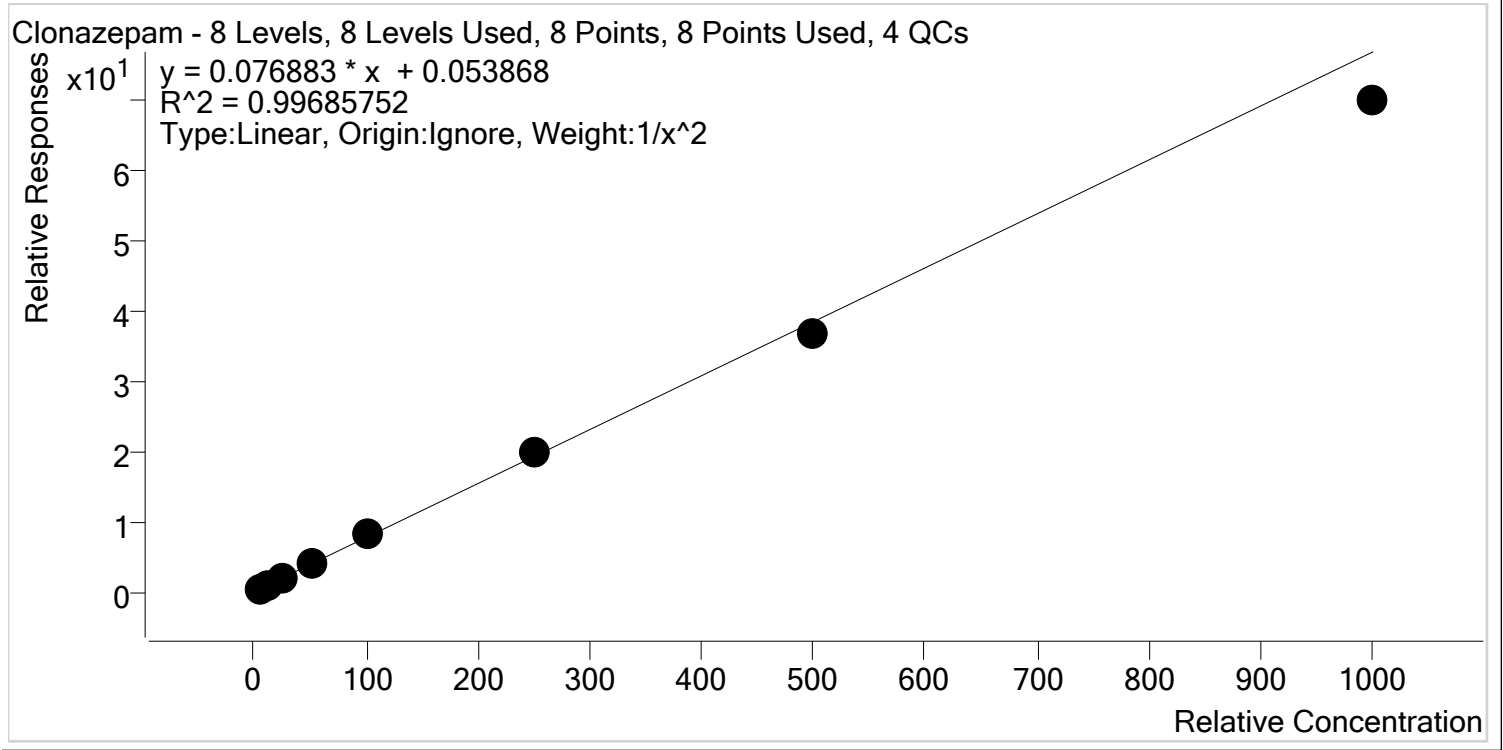


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	49.5	99.0
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	506.6	101.3
p1 Cal 8-1000ng	8	✓	1000.0	991.9	99.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

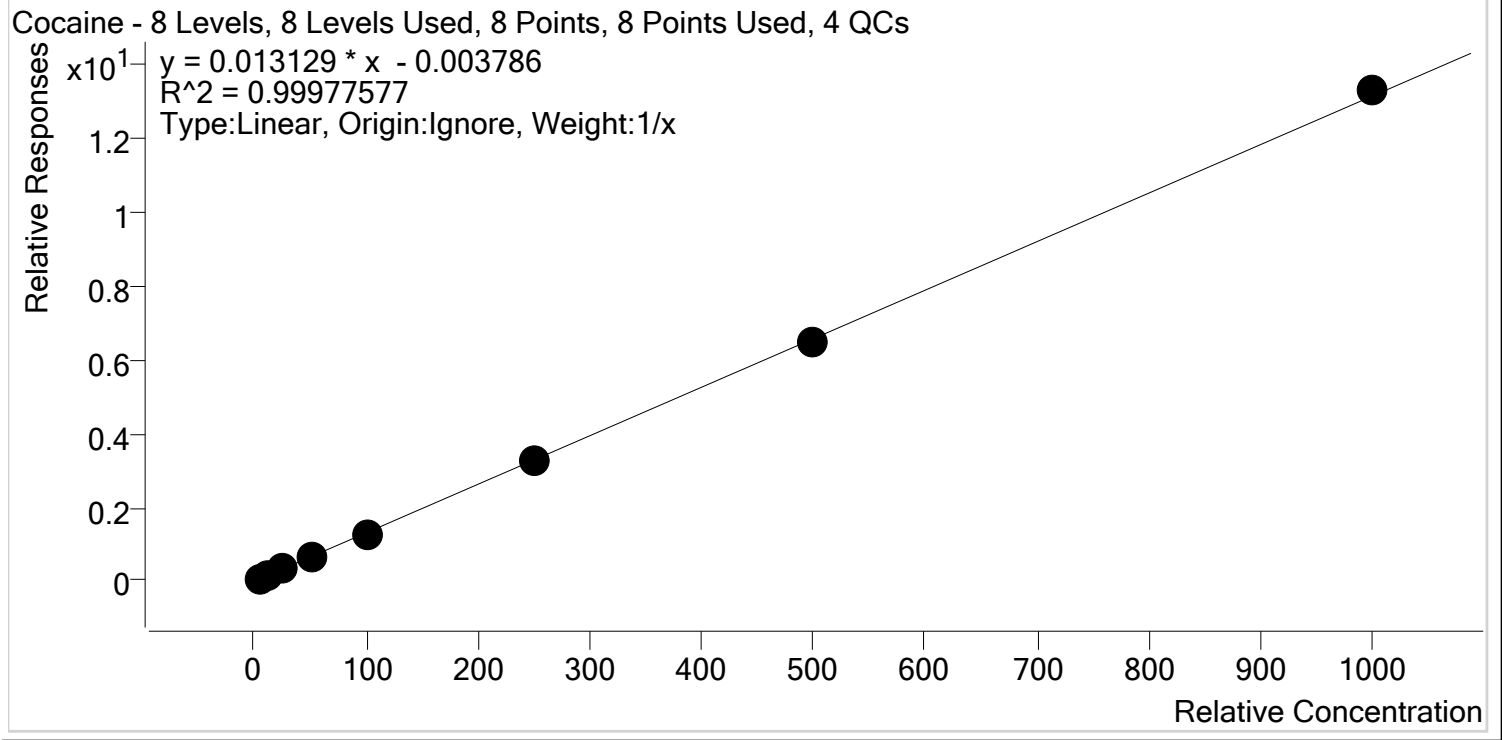


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.9
p1 Cal 4-50ng	4	✓	50.0	53.2	106.4
p1 Cal 5-100ng	5	✓	100.0	104.1	104.1
p1 Cal 6-250ng	6	✓	250.0	255.4	102.2
p1 Cal 7-500ng	7	✓	500.0	478.6	95.7
p1 Cal 8-1000ng	8	✓	1000.0	910.3	91.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

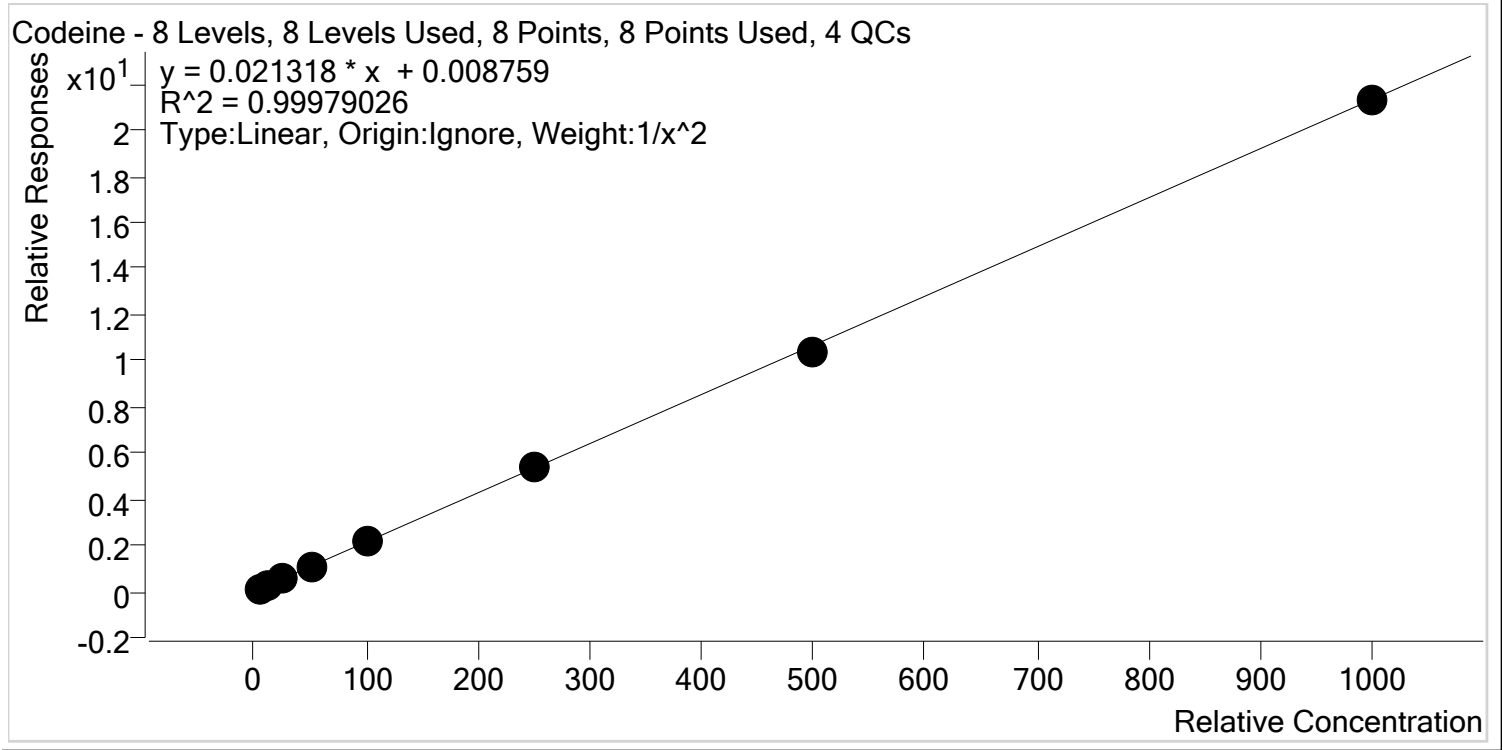


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	248.4	99.4
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1011.5	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	487.5	97.5
p1 Cal 8-1000ng	8	✓	1000.0	997.7	99.8

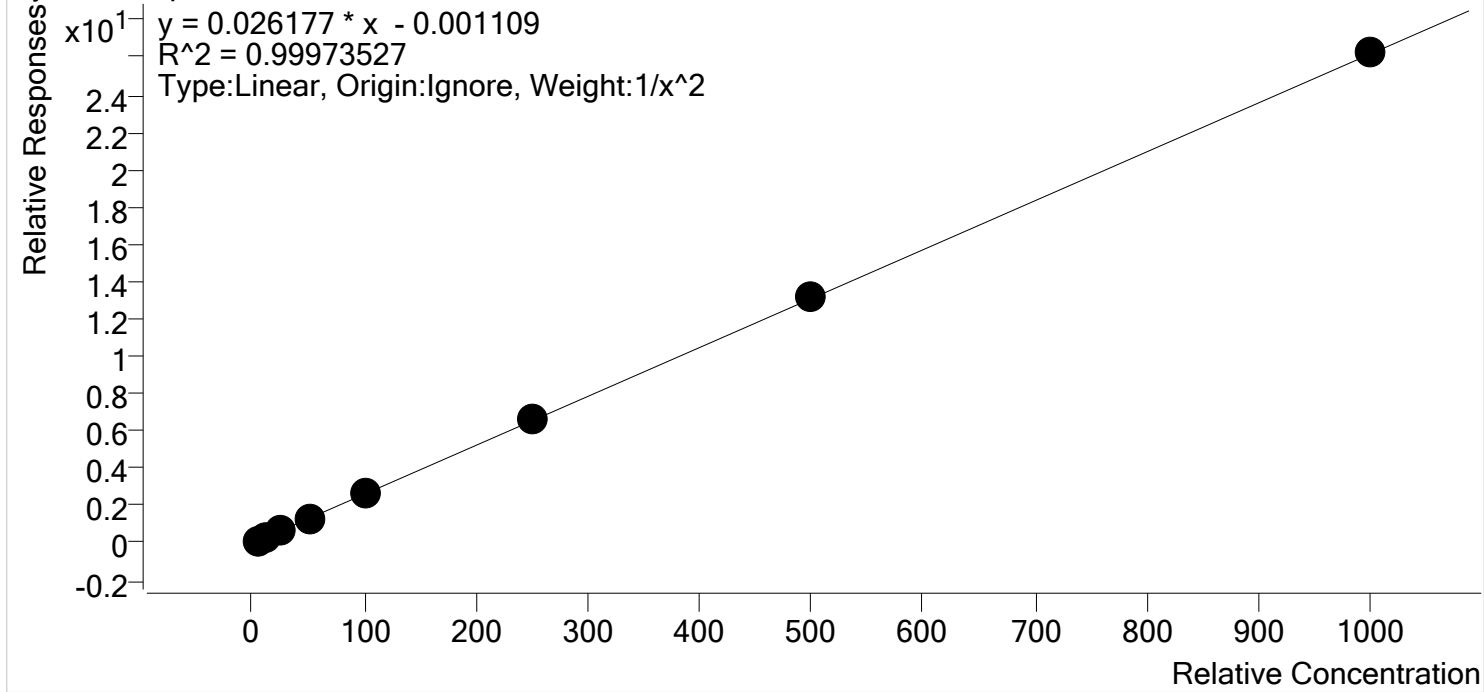
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

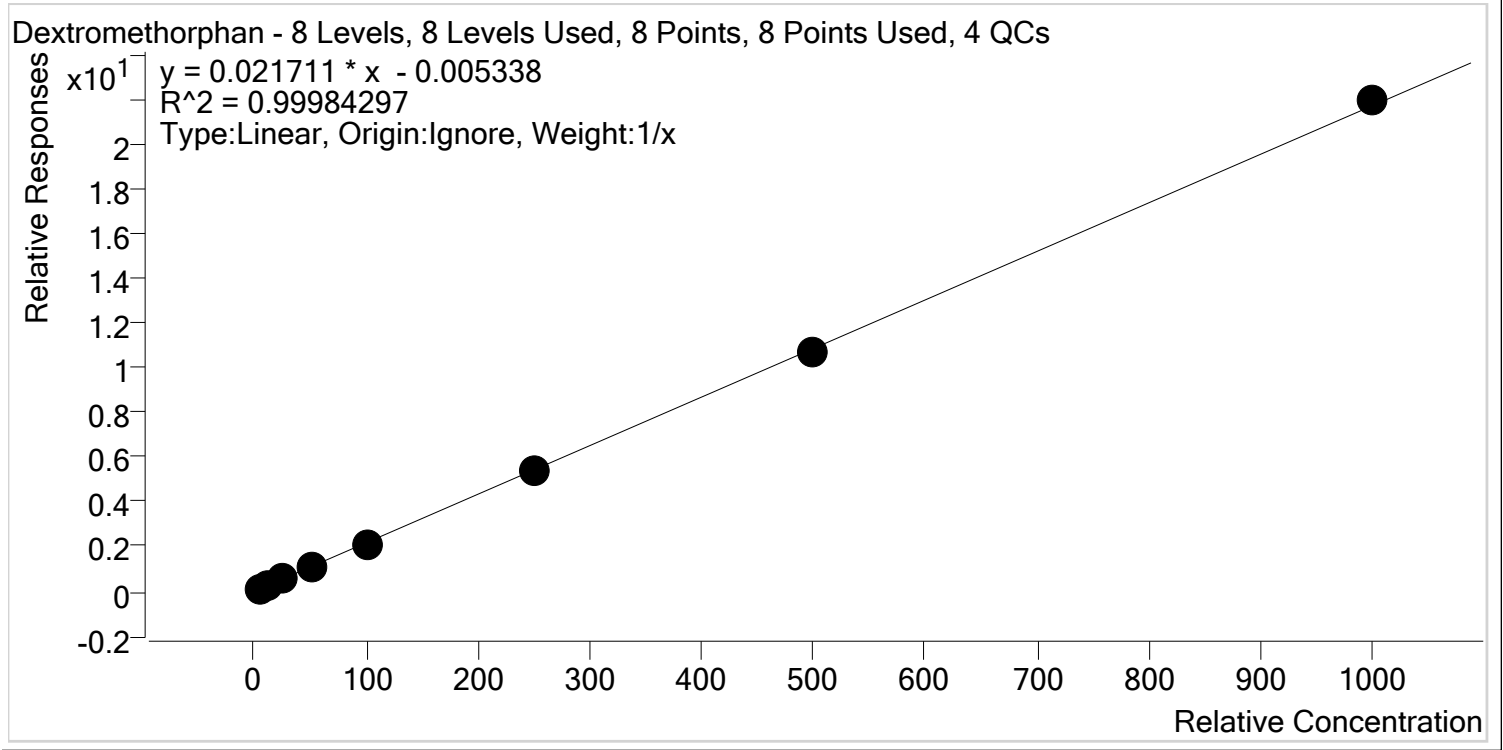


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.9
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng	7	✓	500.0	502.8	100.6
p1 Cal 8-1000ng	8	✓	1000.0	1003.1	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

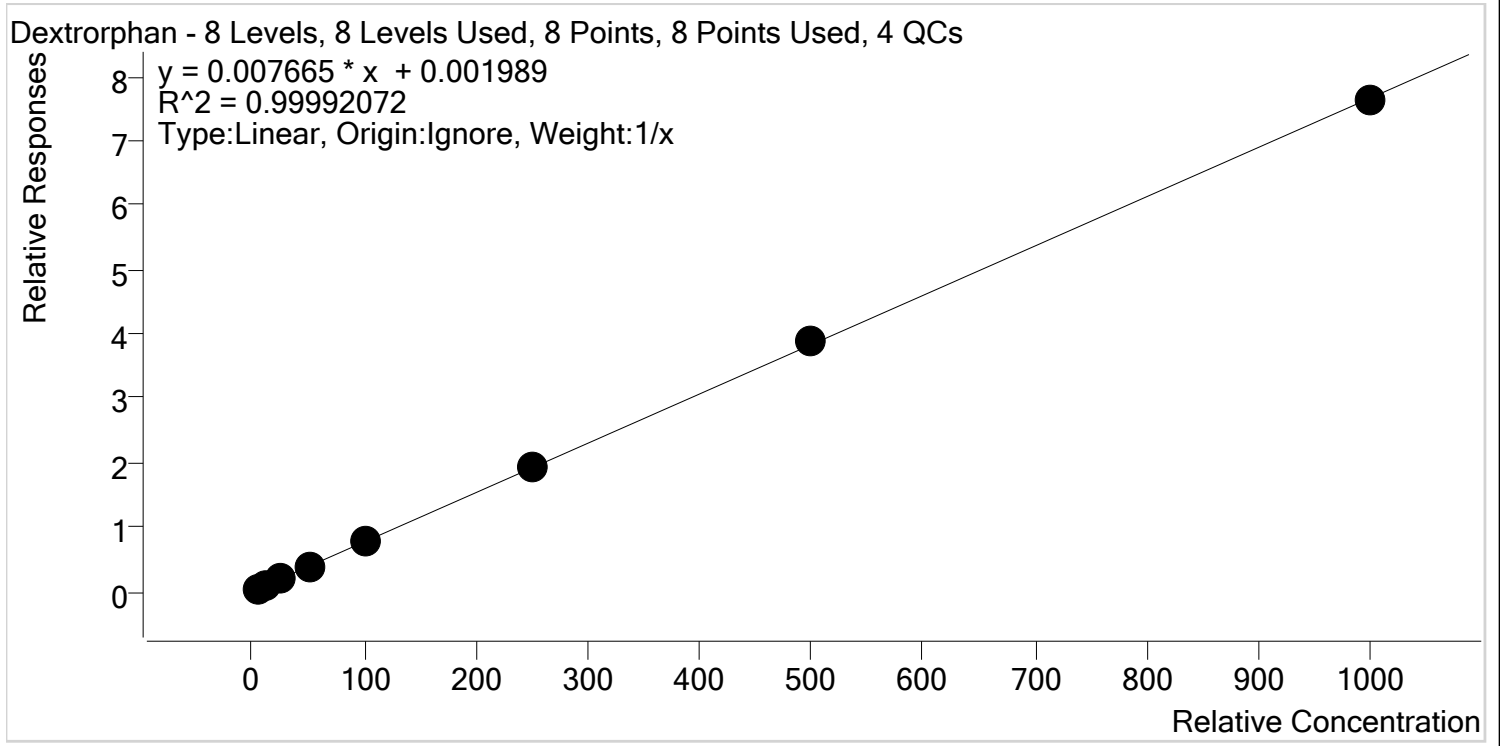


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.9
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	247.6	99.0
p1 Cal 7-500ng	7	✓	500.0	494.0	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1010.7	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Dextrophan Internal Standard Dextrophan-D3

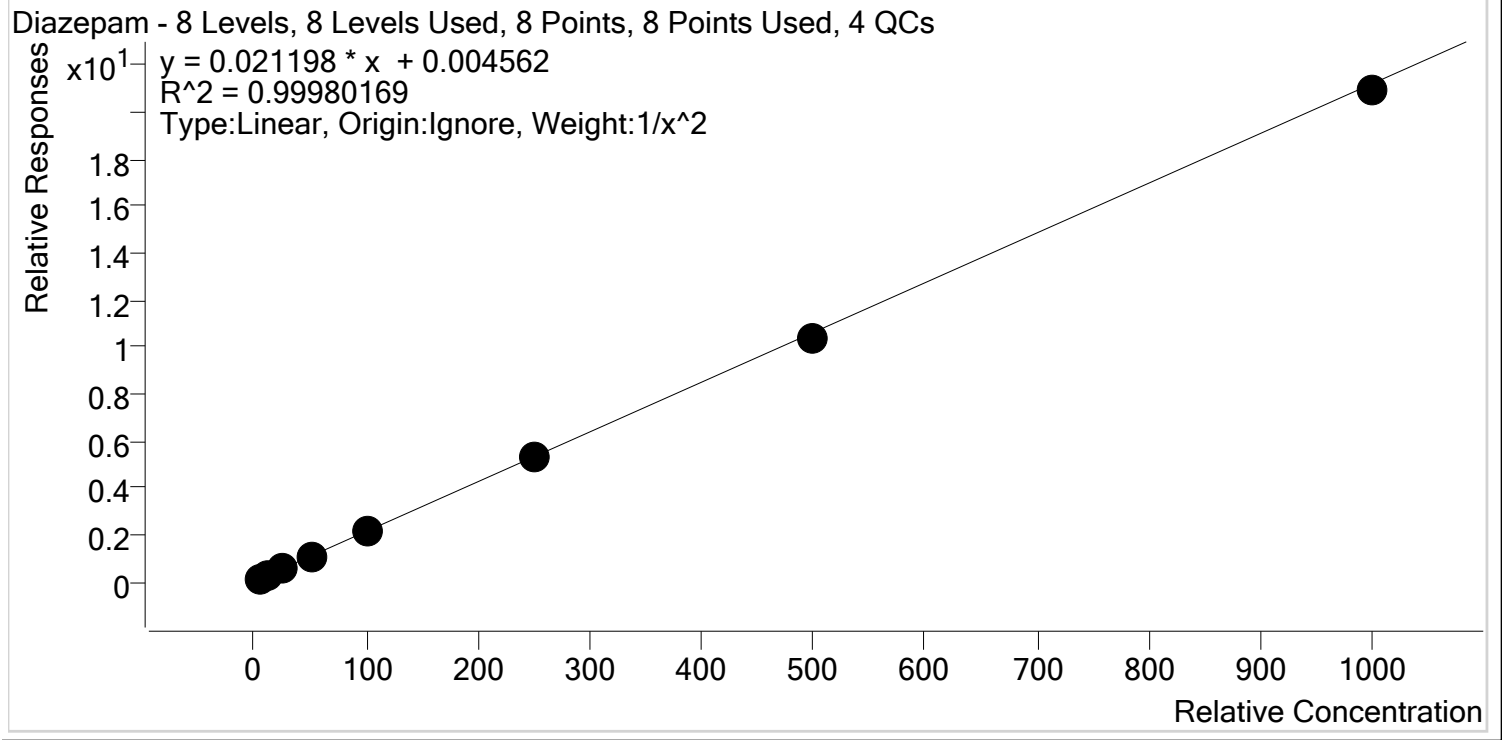


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	506.4	101.3
p1 Cal 8-1000ng	8	✓	1000.0	995.0	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

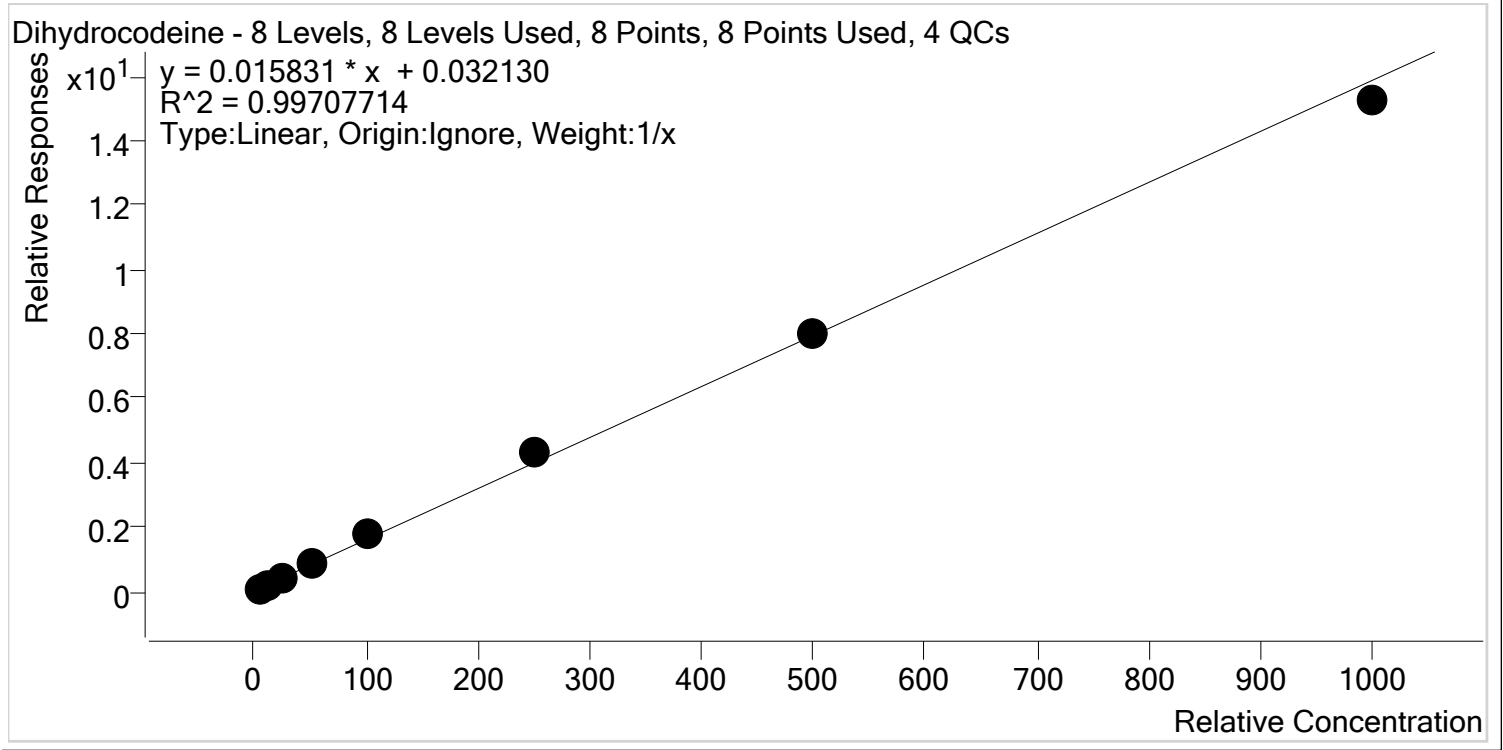


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	50.9	101.7
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
p1 Cal 7-500ng	7	✓	500.0	491.0	98.2
p1 Cal 8-1000ng	8	✓	1000.0	986.2	98.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

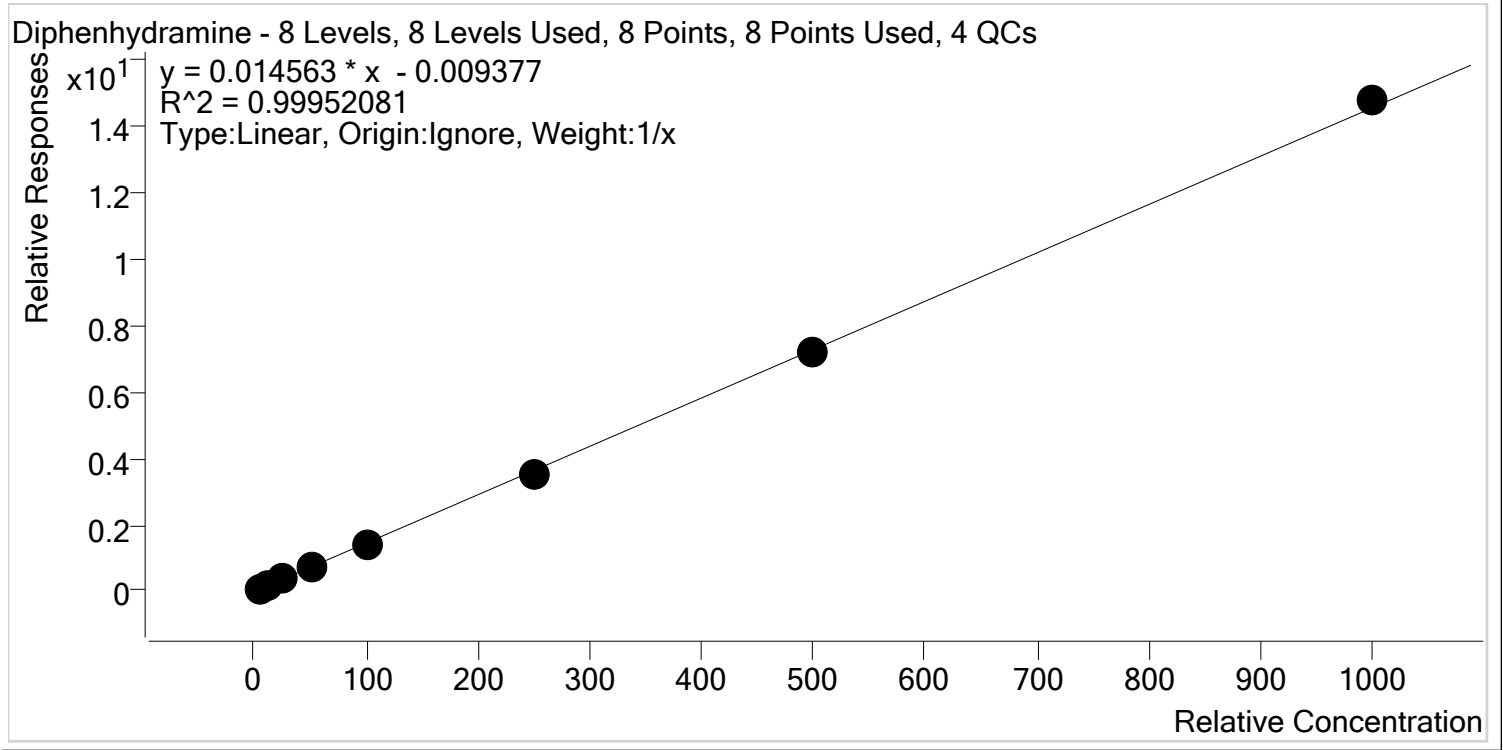


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.8	75.1
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.0
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.9
p1 Cal 4-50ng	4	✓	50.0	55.8	111.5
p1 Cal 5-100ng	5	✓	100.0	109.4	109.4
p1 Cal 6-250ng	6	✓	250.0	270.4	108.1
p1 Cal 7-500ng	7	✓	500.0	504.8	101.0
p1 Cal 8-1000ng	8	✓	1000.0	960.5	96.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

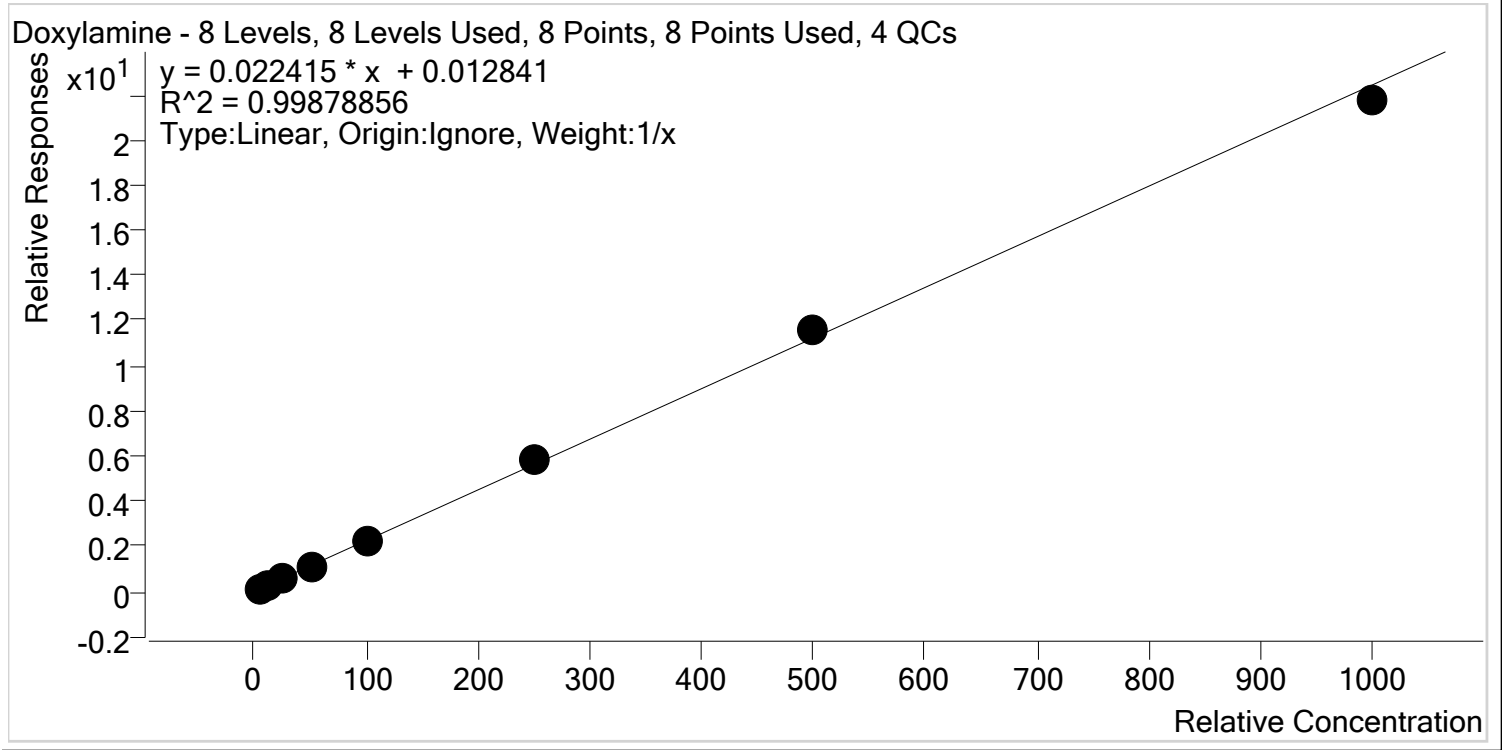


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	112.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.6
p1 Cal 4-50ng	4	✓	50.0	49.0	97.9
p1 Cal 5-100ng	5	✓	100.0	94.6	94.6
p1 Cal 6-250ng	6	✓	250.0	243.2	97.3
p1 Cal 7-500ng	7	✓	500.0	498.6	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1015.0	101.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5



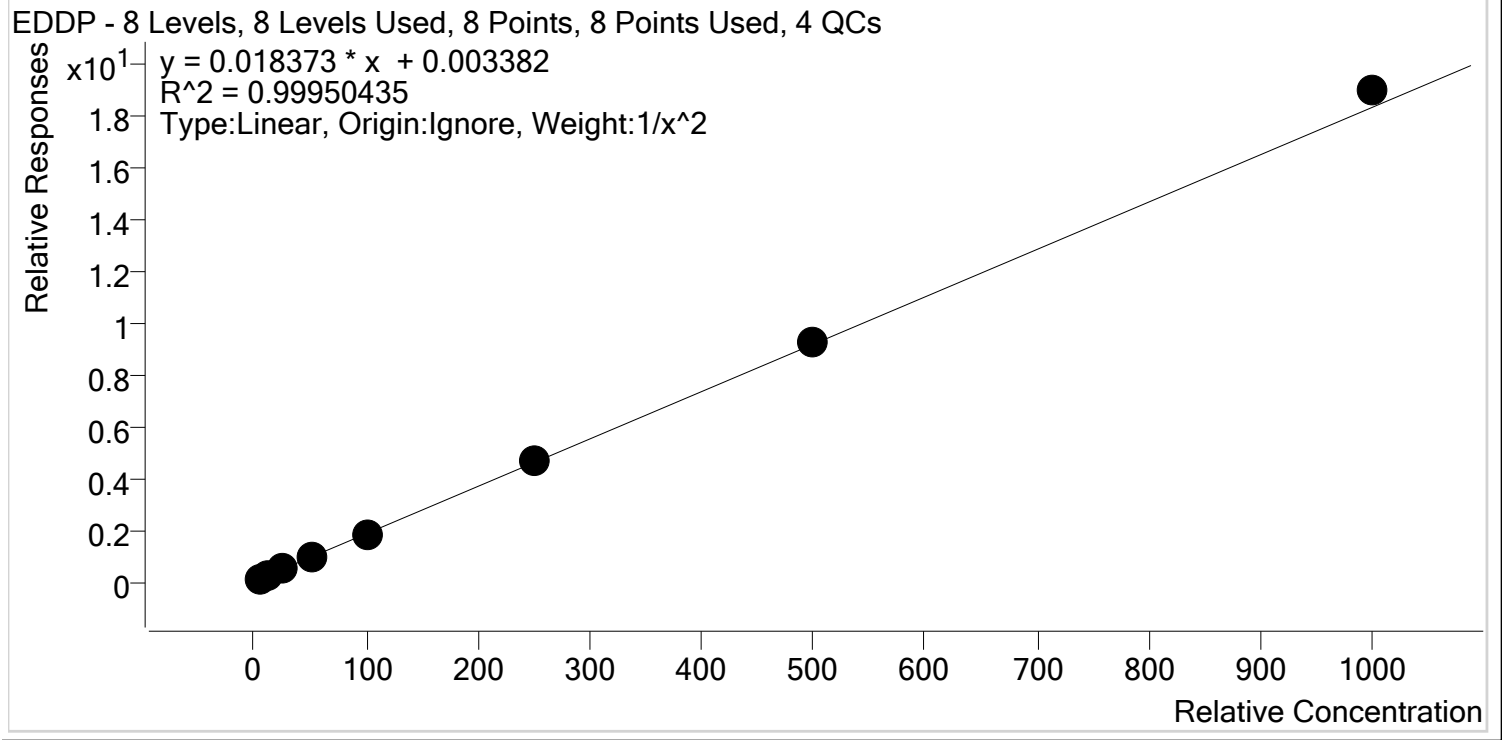
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	259.6	103.8
p1 Cal 7-500ng	7	✓	500.0	519.8	104.0
p1 Cal 8-1000ng	8	✓	1000.0	969.2	96.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

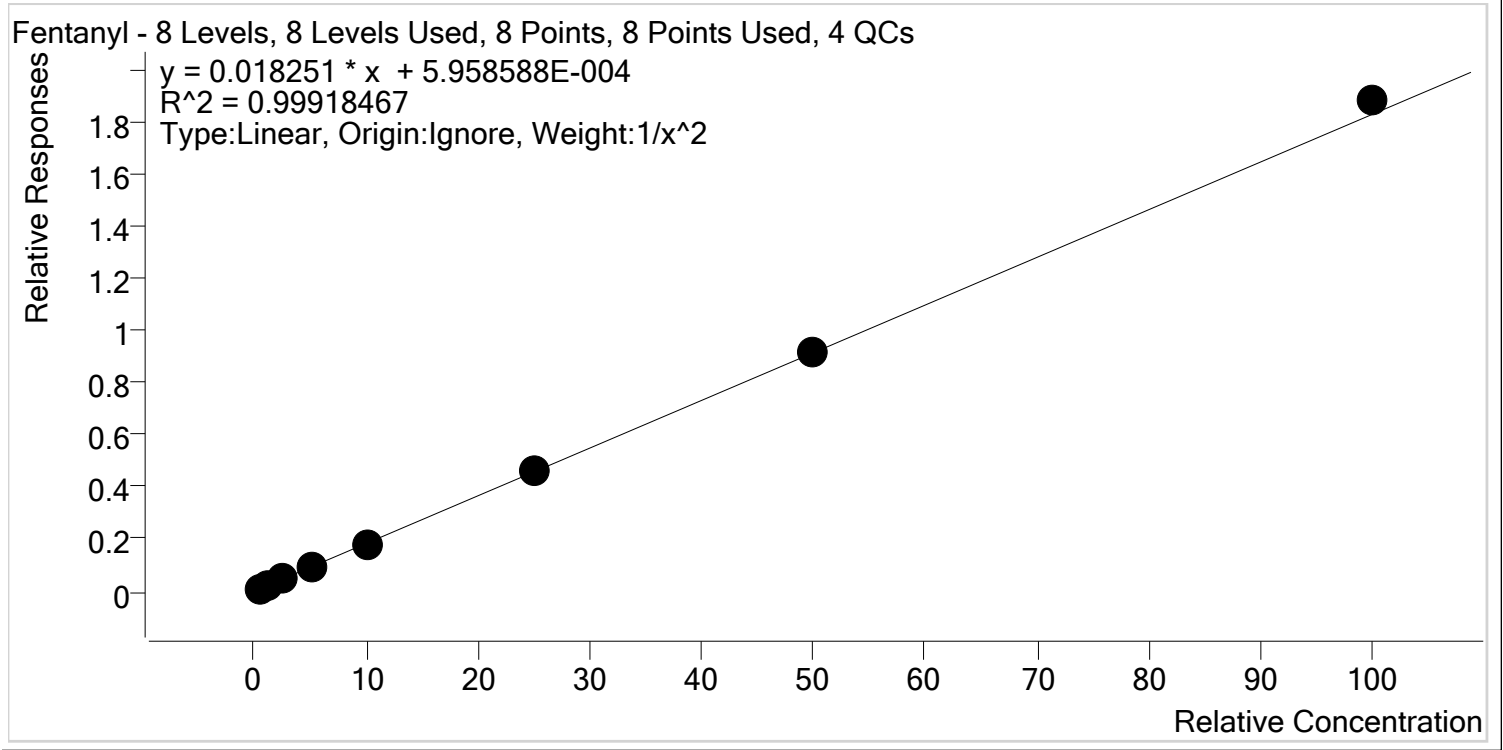


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.6
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	251.9	100.8
p1 Cal 7-500ng	7	✓	500.0	502.9	100.6
p1 Cal 8-1000ng	8	✓	1000.0	1035.5	103.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

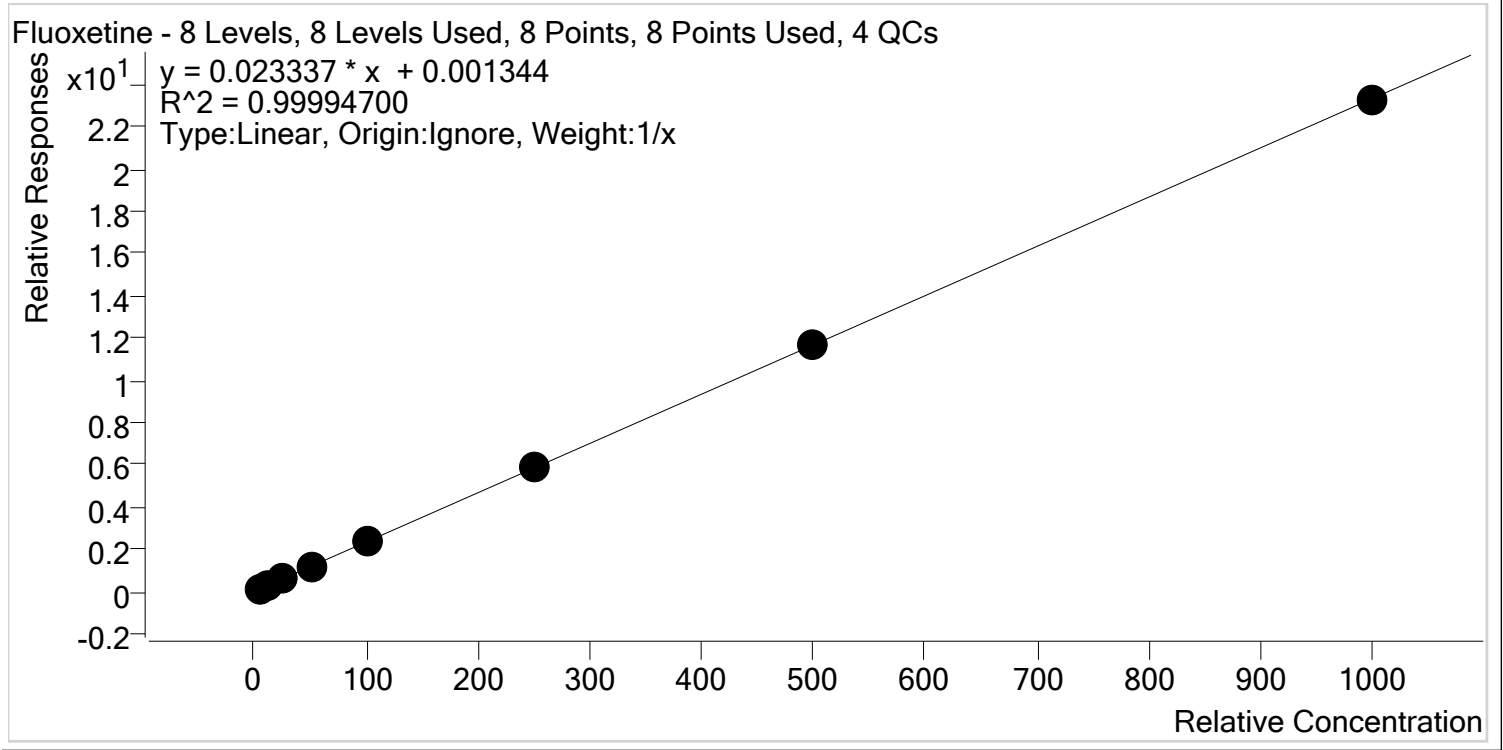


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.9
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.4
p1 Cal 4-50ng	4	✓	5.0	4.9	97.2
p1 Cal 5-100ng	5	✓	10.0	10.1	100.8
p1 Cal 6-250ng	6	✓	25.0	25.4	101.8
p1 Cal 7-500ng	7	✓	50.0	50.4	100.9
p1 Cal 8-1000ng	8	✓	100.0	102.9	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

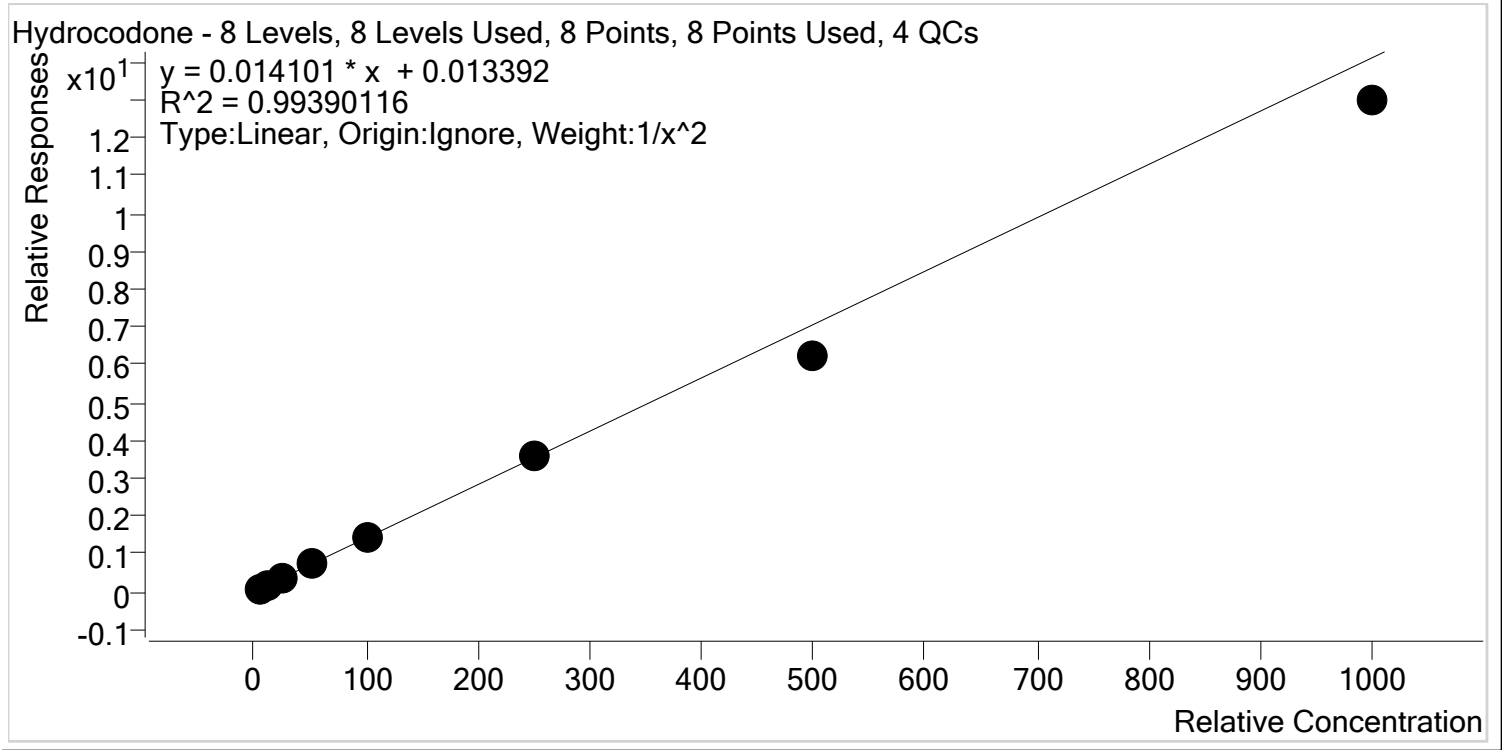


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	253.1	101.2
p1 Cal 7-500ng	7	✓	500.0	501.5	100.3
p1 Cal 8-1000ng	8	✓	1000.0	996.1	99.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

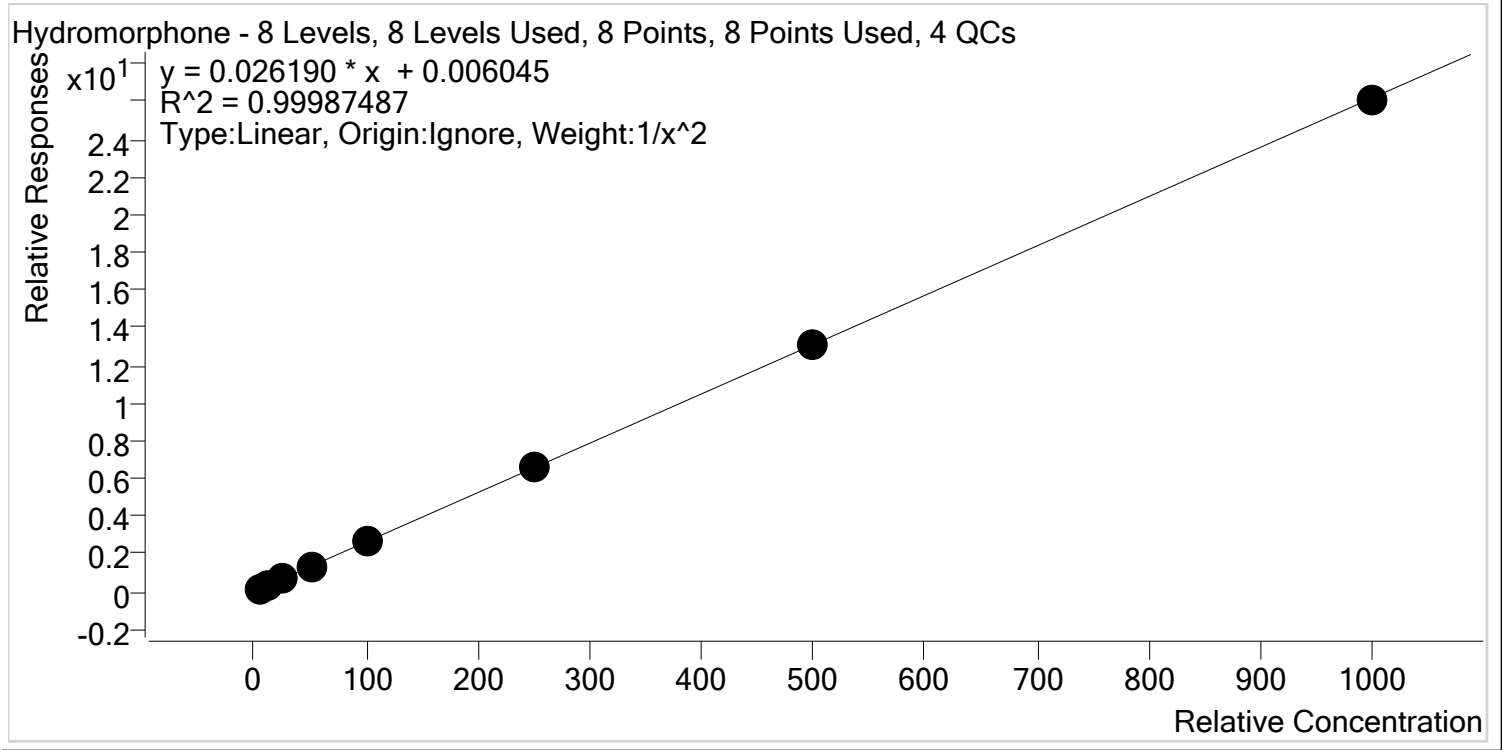


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.2
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	104.1	104.1
p1 Cal 6-250ng	6	✓	250.0	255.8	102.3
p1 Cal 7-500ng	7	✓	500.0	444.1	88.8
p1 Cal 8-1000ng	8	✓	1000.0	919.7	92.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

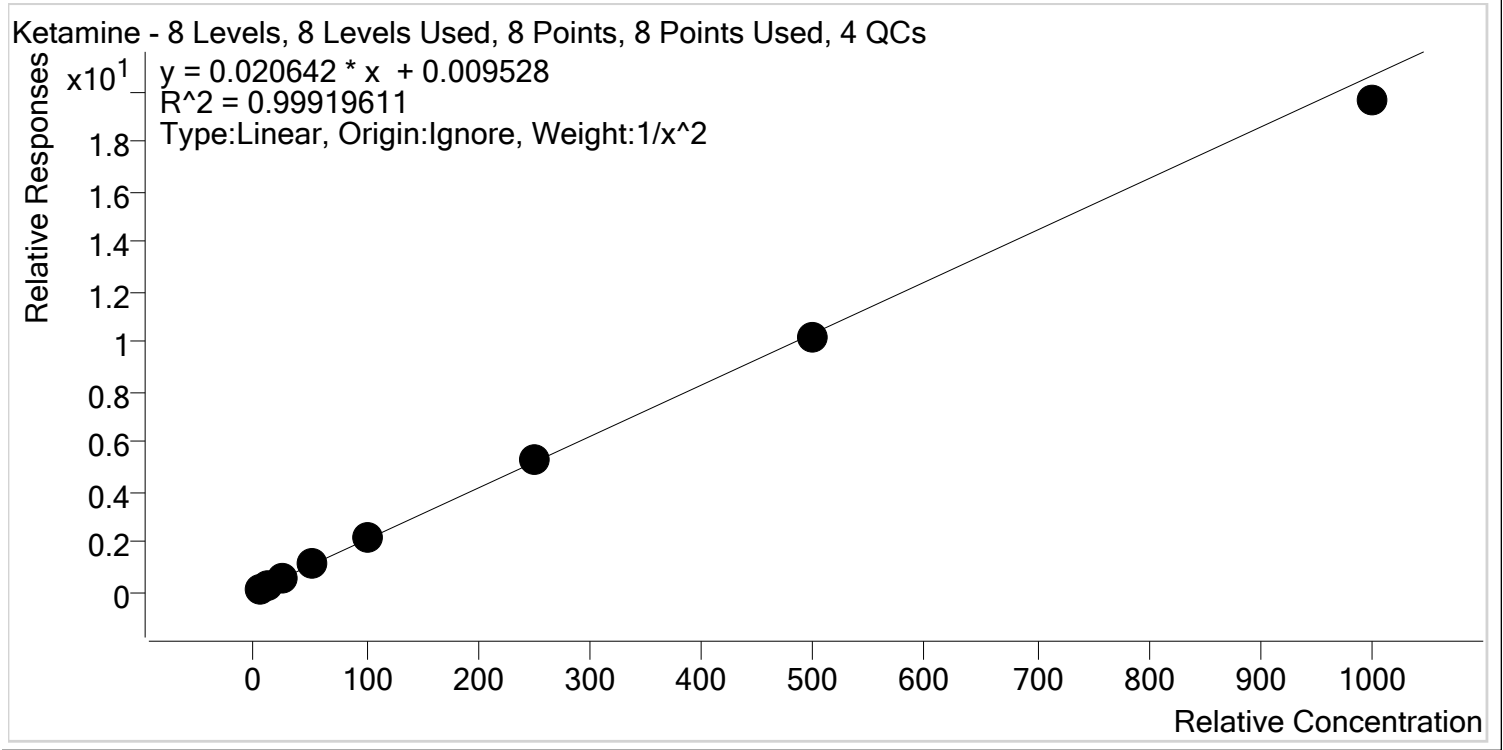


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	249.9	100.0
p1 Cal 7-500ng	7	✓	500.0	497.7	99.5
p1 Cal 8-1000ng	8	✓	1000.0	994.8	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4



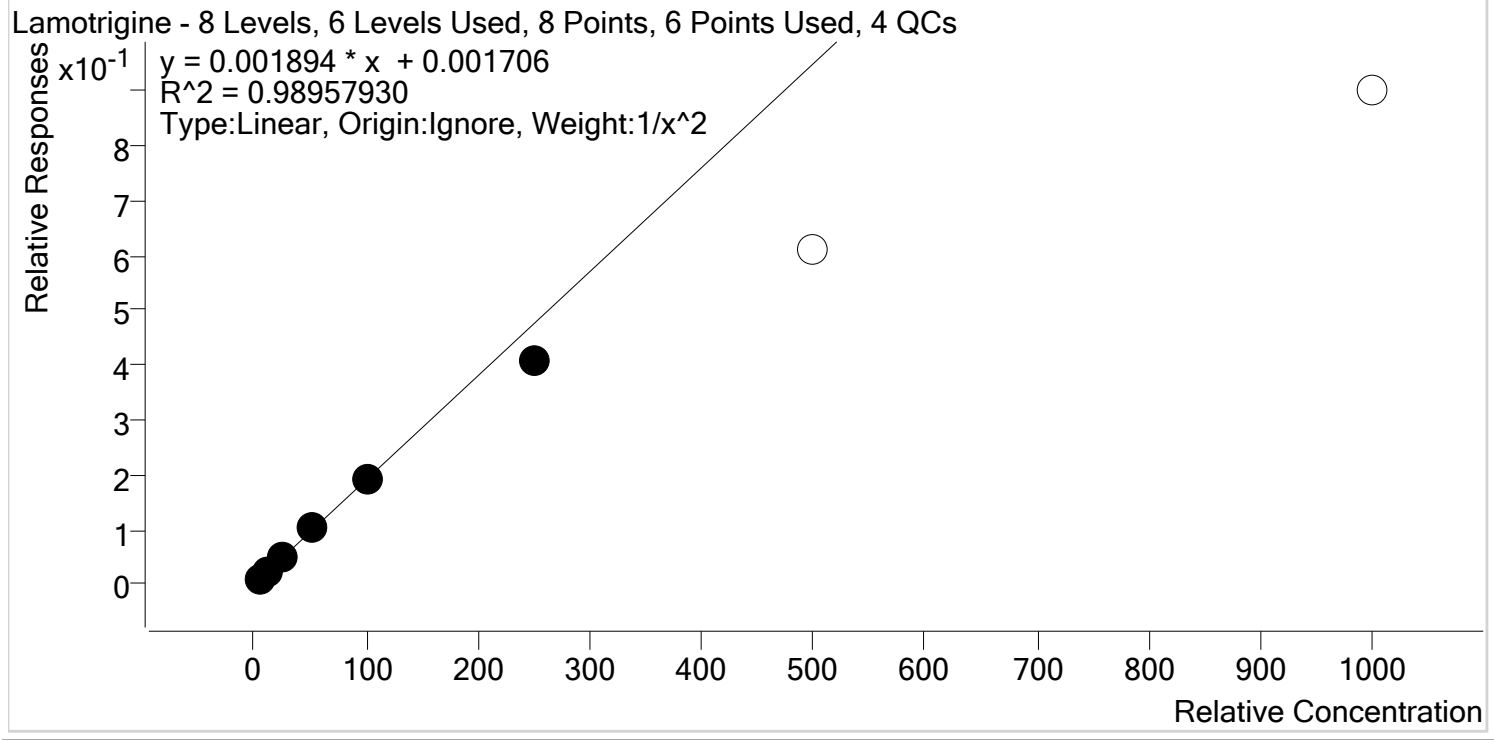
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	252.8	101.1
p1 Cal 7-500ng	7	✓	500.0	491.0	98.2
p1 Cal 8-1000ng	8	✓	1000.0	951.6	95.2

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	27.0	108.1
p1 Cal 4-50ng	4	✓	50.0	53.8	107.6
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	213.2	85.3
p1 Cal 7-500ng	7	x	500.0	322.9	64.6
p1 Cal 8-1000ng	8	x	1000.0	474.1	47.4

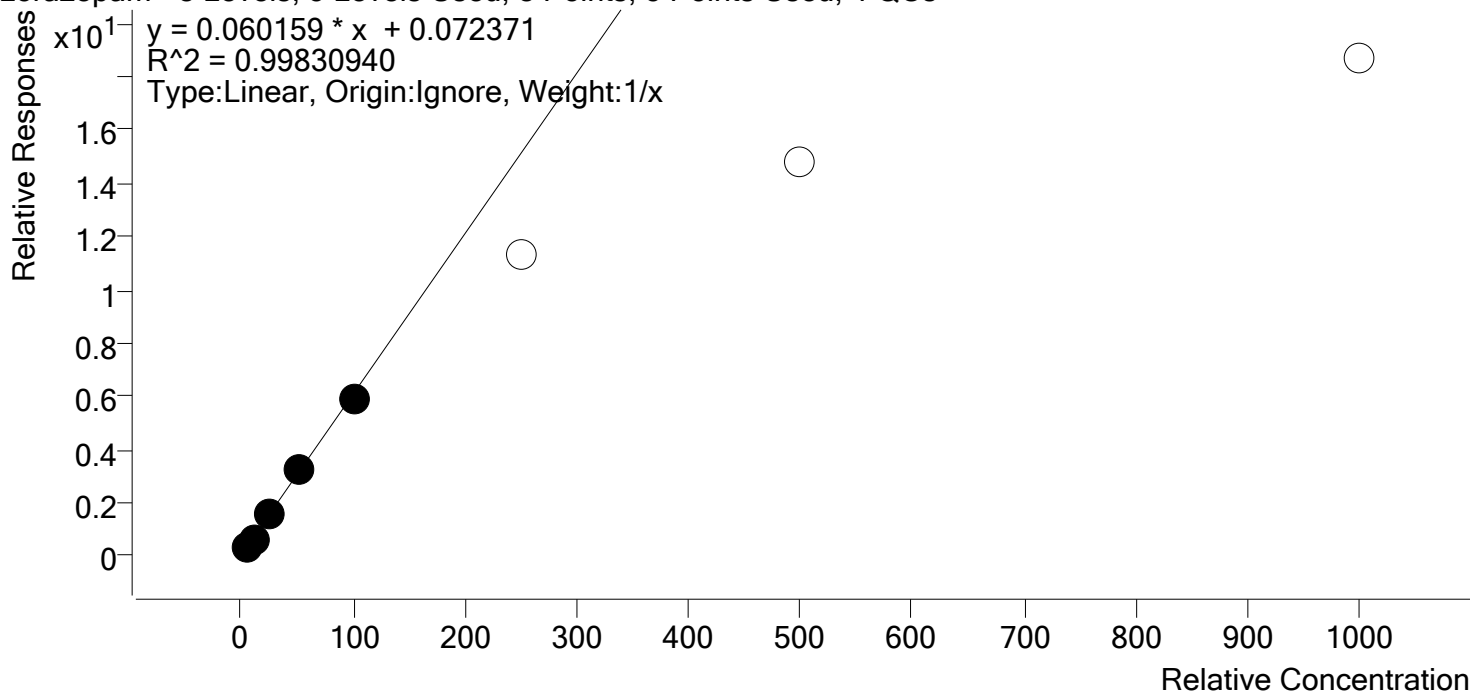
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

Lorazepam - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs

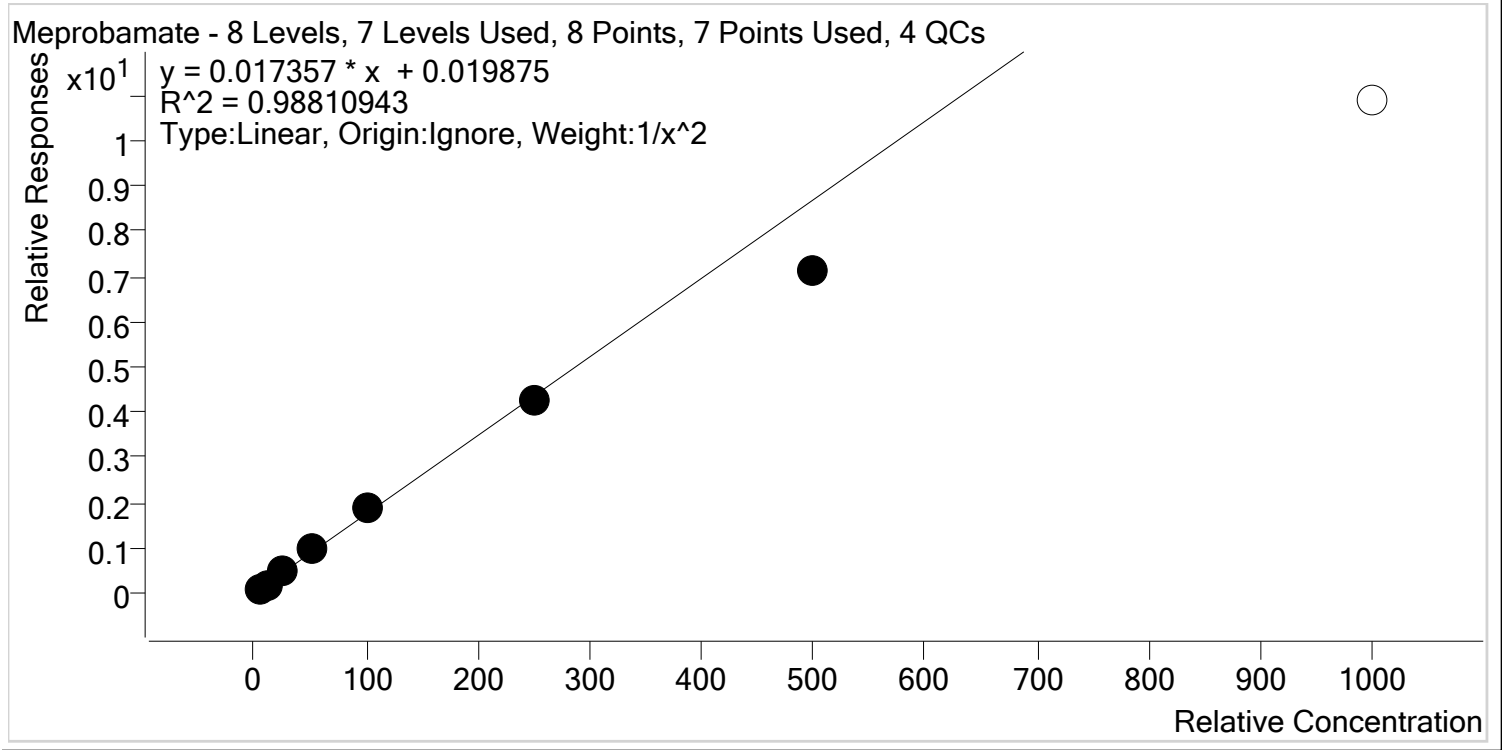


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p1 Cal 4-50ng	4	✓	50.0	51.8	103.5
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✗	250.0	186.9	74.7
p1 Cal 7-500ng	7	✗	500.0	245.2	49.0
p1 Cal 8-1000ng	8	✗	1000.0	309.1	30.9

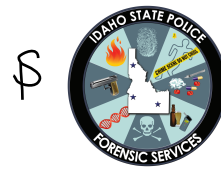


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

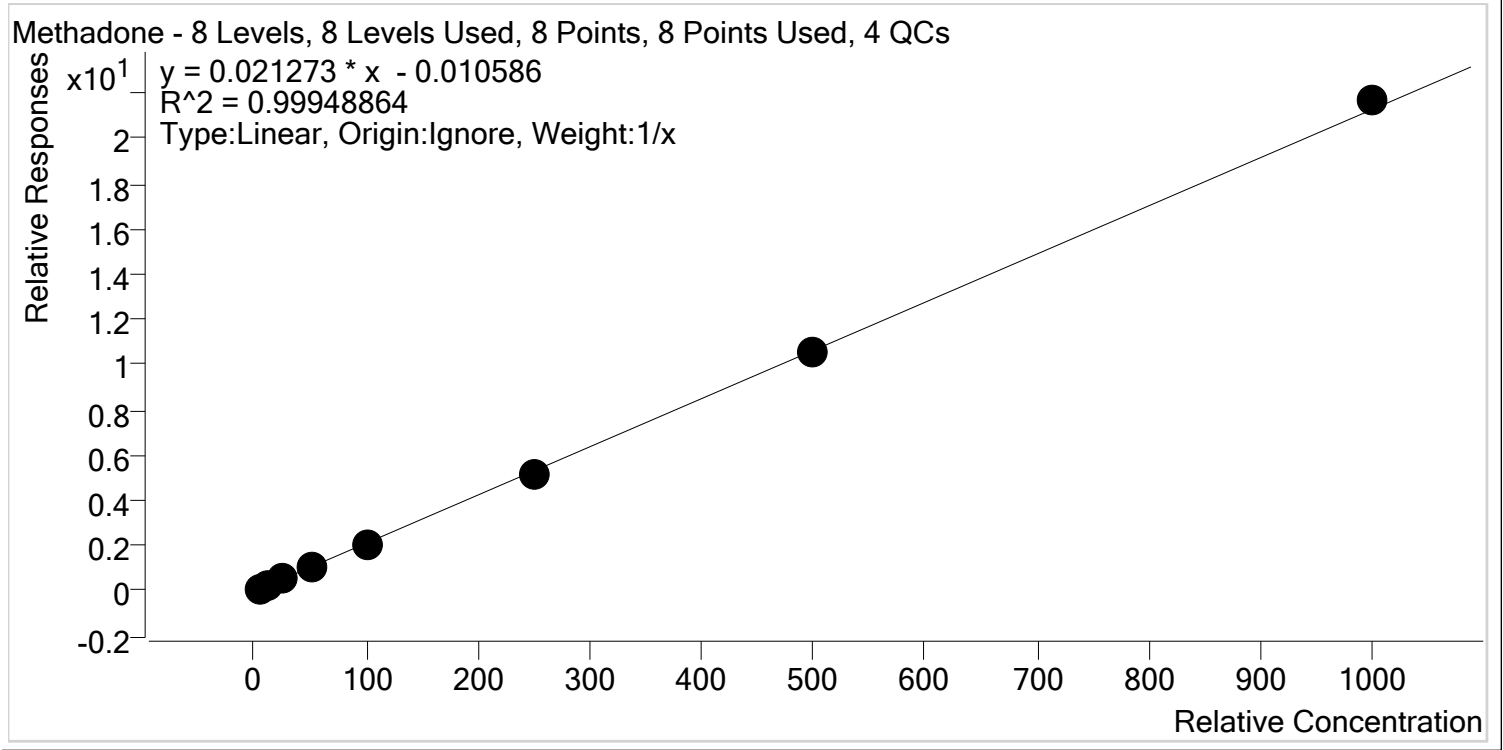


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.9
p1 Cal 4-50ng	4	✓	50.0	55.0	110.1
p1 Cal 5-100ng	5	✓	100.0	107.3	107.3
p1 Cal 6-250ng	6	✓	250.0	243.3	97.3
p1 Cal 7-500ng	7	✓	500.0	411.4	82.3
p1 Cal 8-1000ng	8	✗	1000.0	626.3	62.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



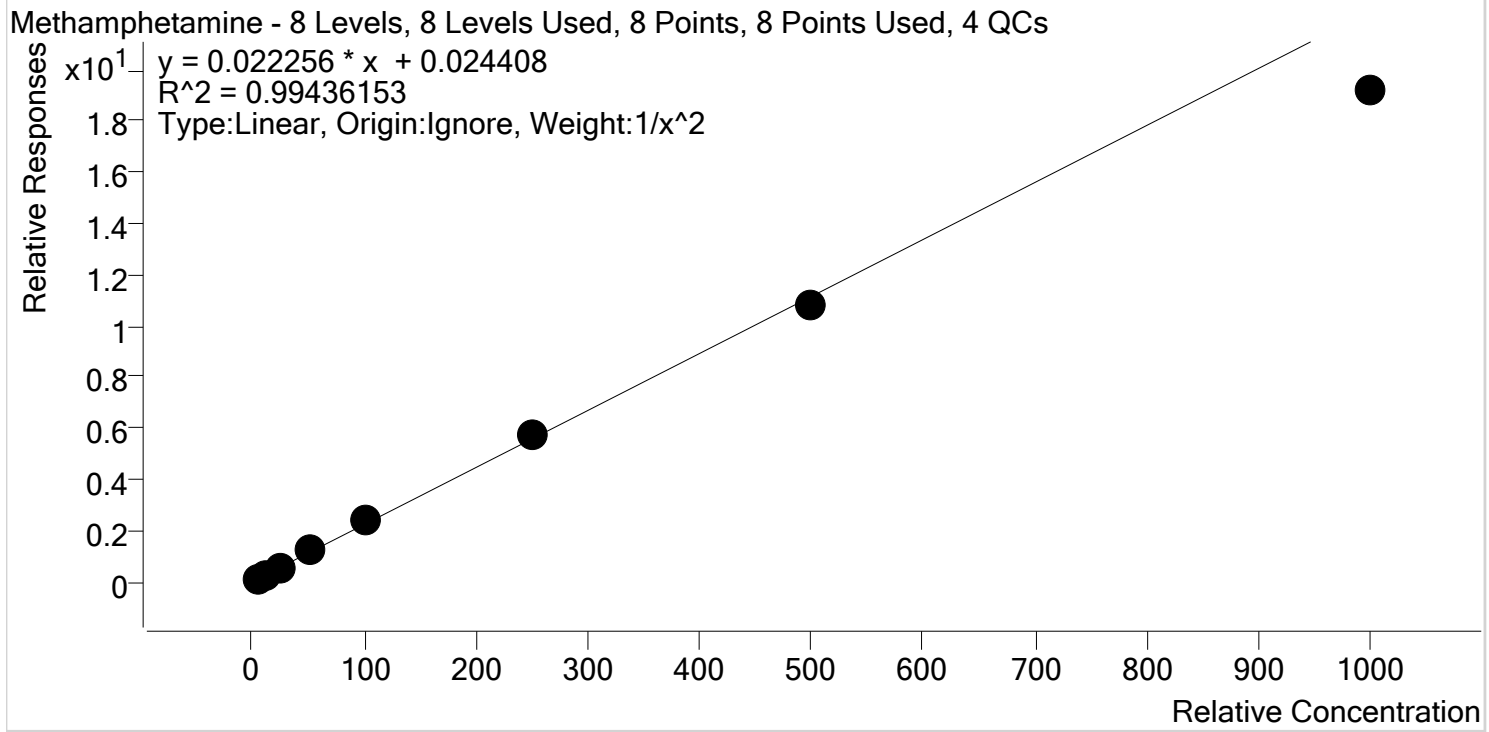
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	111.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	48.0	96.1
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	242.1	96.8
p1 Cal 7-500ng	7	✓	500.0	494.3	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1018.5	101.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11



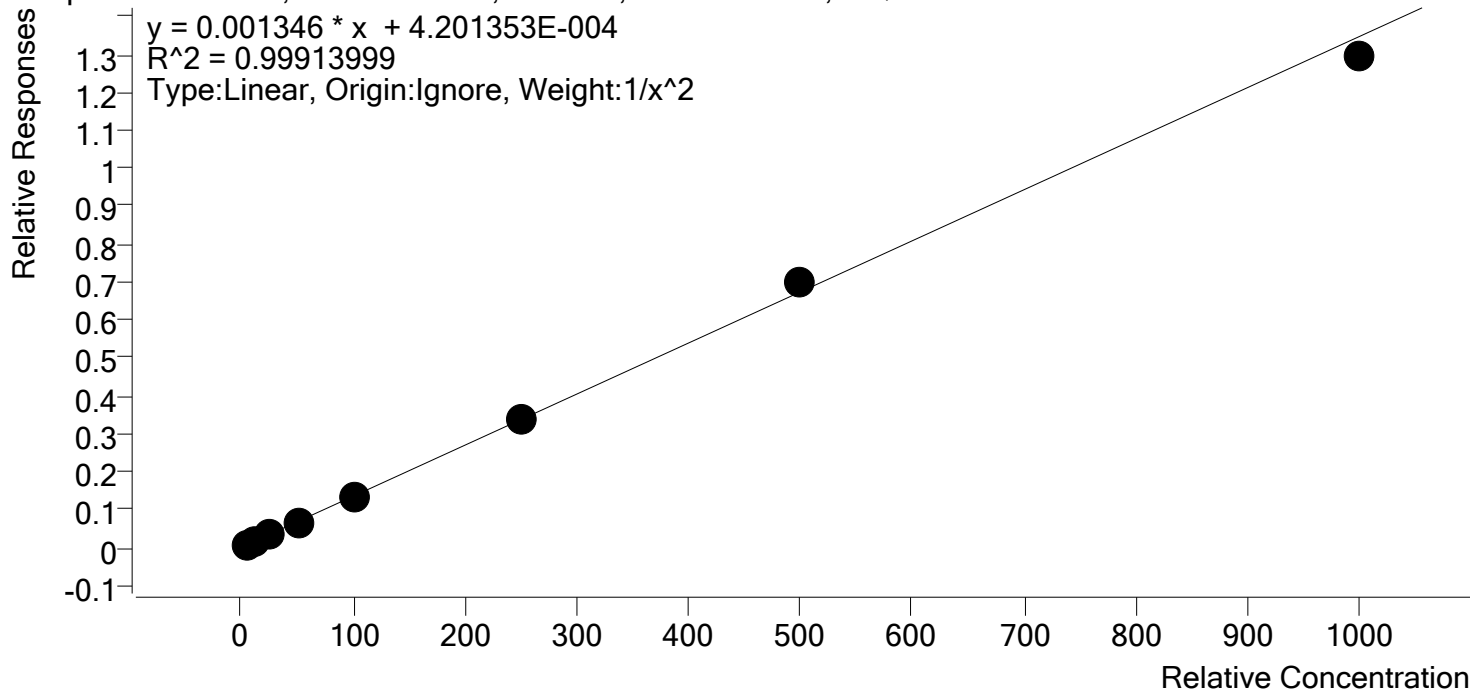
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.1
p1 Cal 4-50ng	4	✓	50.0	53.3	106.7
p1 Cal 5-100ng	5	✓	100.0	105.0	105.0
p1 Cal 6-250ng	6	✓	250.0	256.9	102.8
p1 Cal 7-500ng	7	✓	500.0	484.6	96.9
p1 Cal 8-1000ng	8	✓	1000.0	861.2	86.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

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

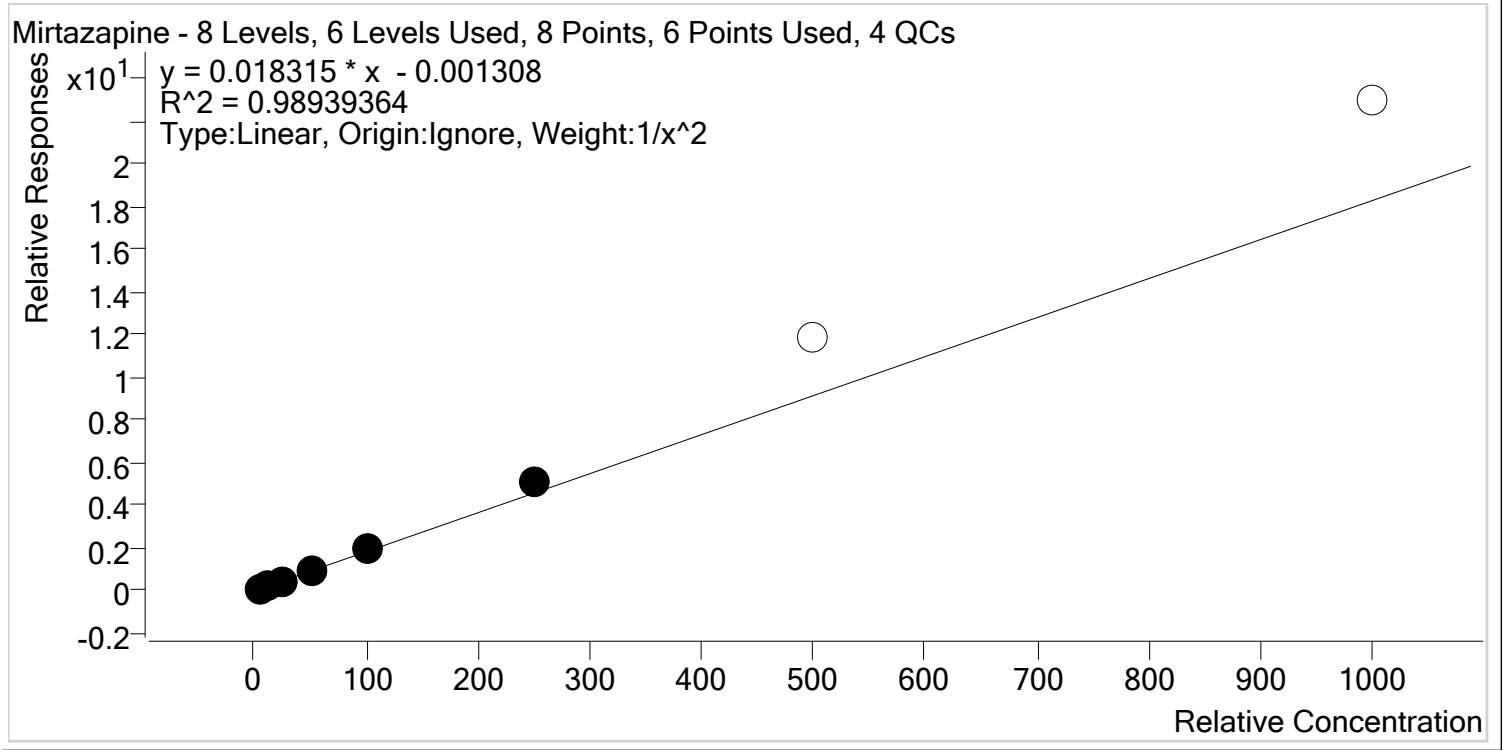


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.9	101.9
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	251.1	100.4
p1 Cal 7-500ng	7	✓	500.0	520.1	104.0
p1 Cal 8-1000ng	8	✓	1000.0	960.8	96.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

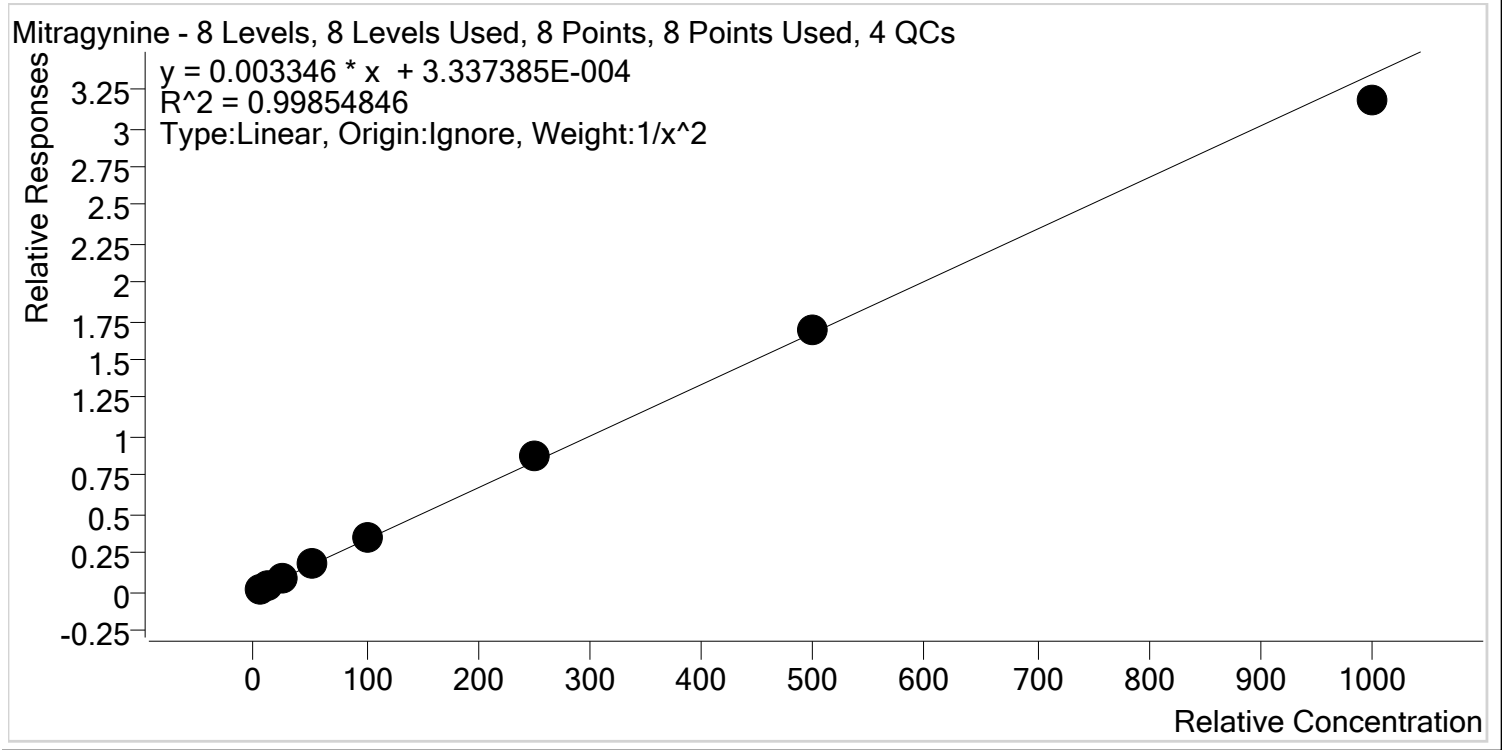


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.9
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng	3	✓	25.0	22.3	89.3
p1 Cal 4-50ng	4	✓	50.0	46.5	93.0
p1 Cal 5-100ng	5	✓	100.0	104.7	104.7
p1 Cal 6-250ng	6	✓	250.0	280.3	112.1
p1 Cal 7-500ng	7	x	500.0	652.9	130.6
p1 Cal 8-1000ng	8	x	1000.0	1256.4	125.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9



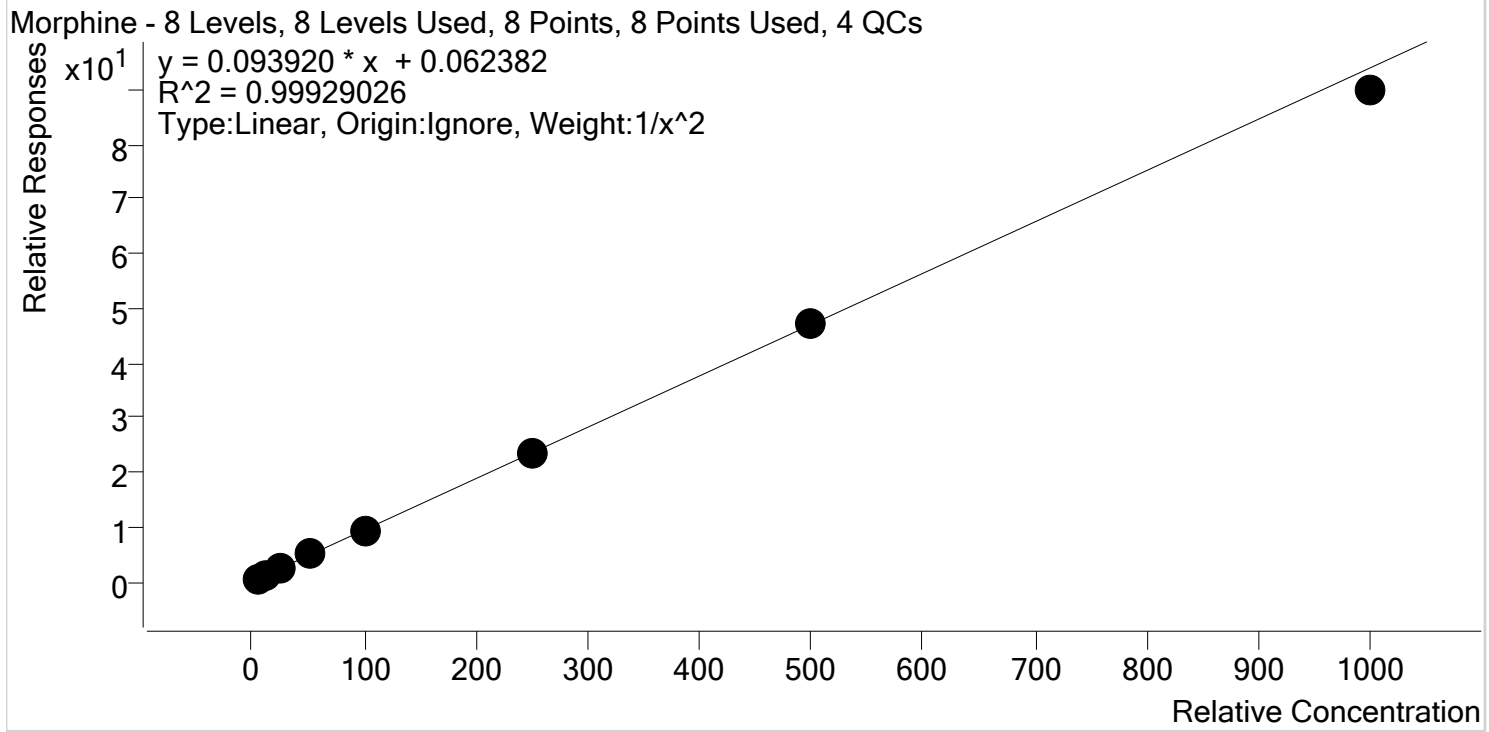
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.5
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.2
p1 Cal 4-50ng	4	✓	50.0	51.1	102.1
p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
p1 Cal 6-250ng	6	✓	250.0	258.7	103.5
p1 Cal 7-500ng	7	✓	500.0	504.3	100.9
p1 Cal 8-1000ng	8	✓	1000.0	949.1	94.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

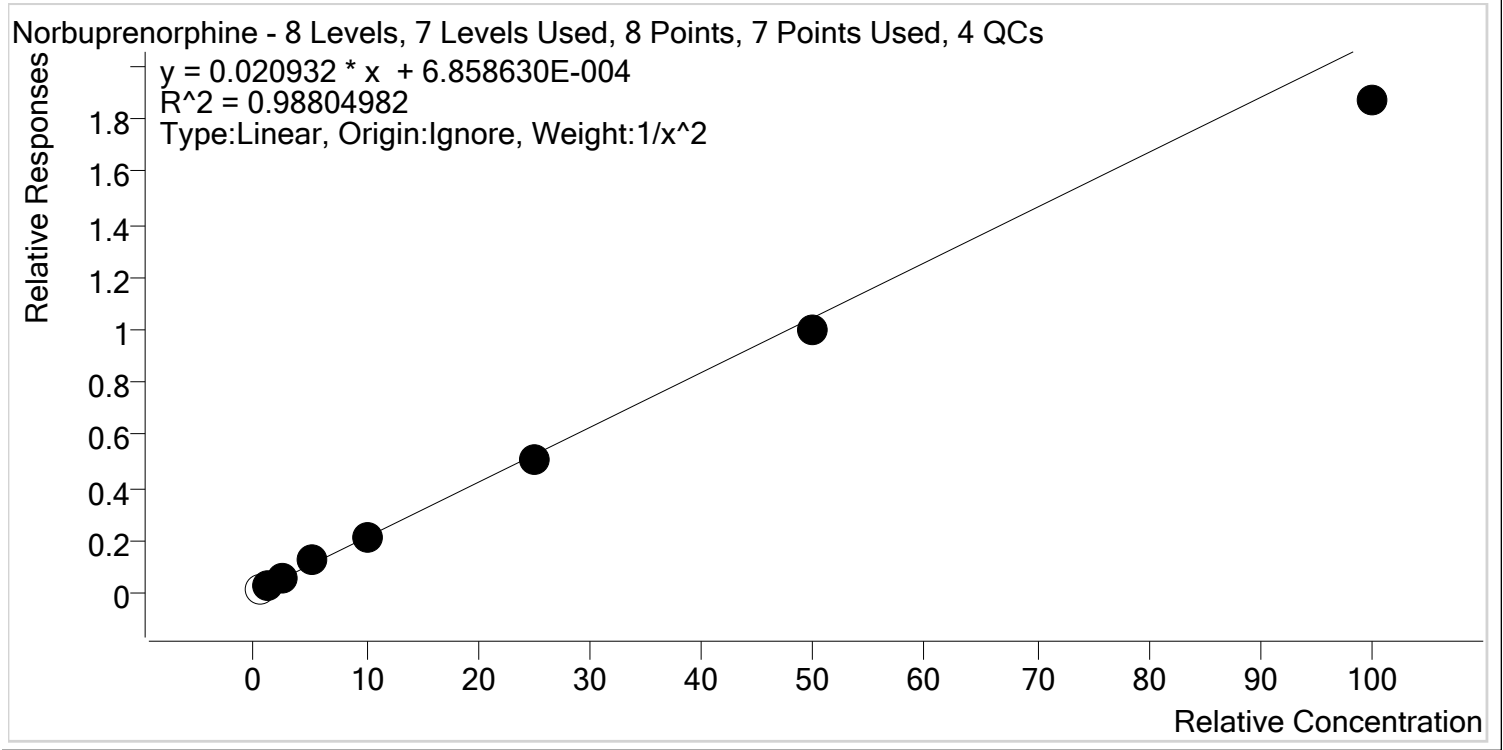


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	500.2	100.0
p1 Cal 8-1000ng	8	✓	1000.0	955.8	95.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.7	135.9
p1 Cal 2- 10ng	2	✓	1.0	0.9	92.8
p1 Cal 3 -25ng	3	✓	2.5	2.8	112.3
p1 Cal 4-50ng	4	✓	5.0	5.7	113.9
p1 Cal 5-100ng	5	✓	10.0	9.8	98.1
p1 Cal 6-250ng	6	✓	25.0	24.4	97.8
p1 Cal 7-500ng	7	✓	50.0	47.9	95.7
p1 Cal 8-1000ng	8	✓	100.0	89.4	89.4

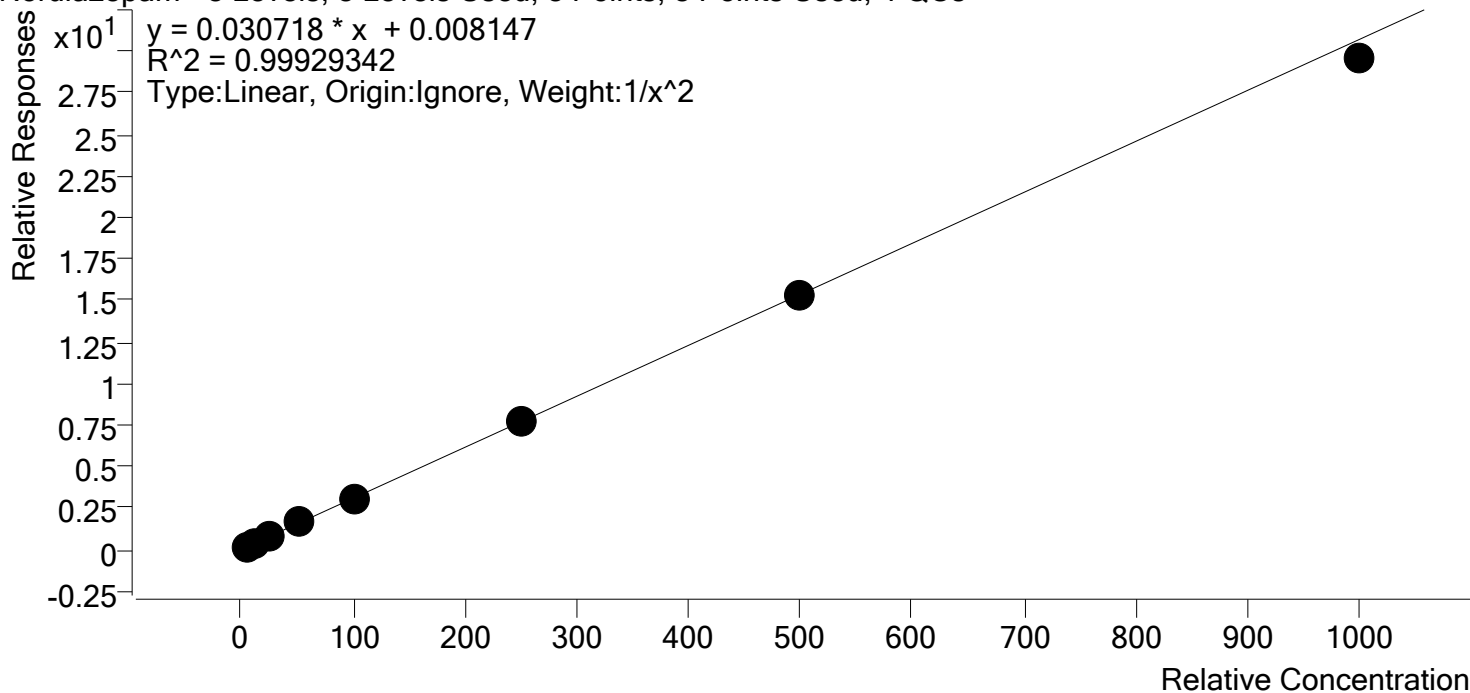
\$



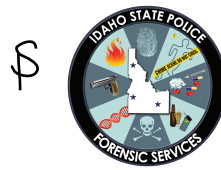
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

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

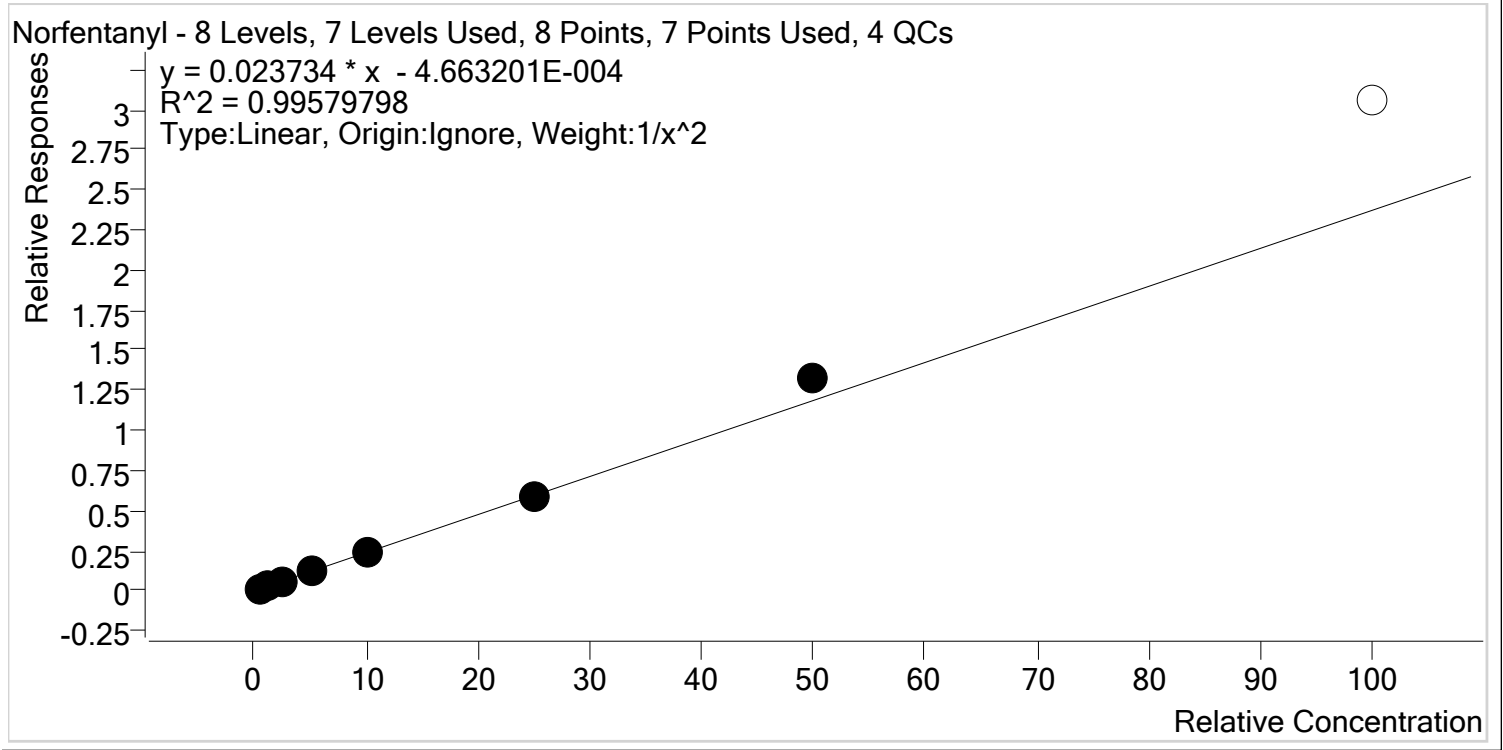


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	250.4	100.1
p1 Cal 7-500ng	7	✓	500.0	494.9	99.0
p1 Cal 8-1000ng	8	✓	1000.0	962.6	96.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

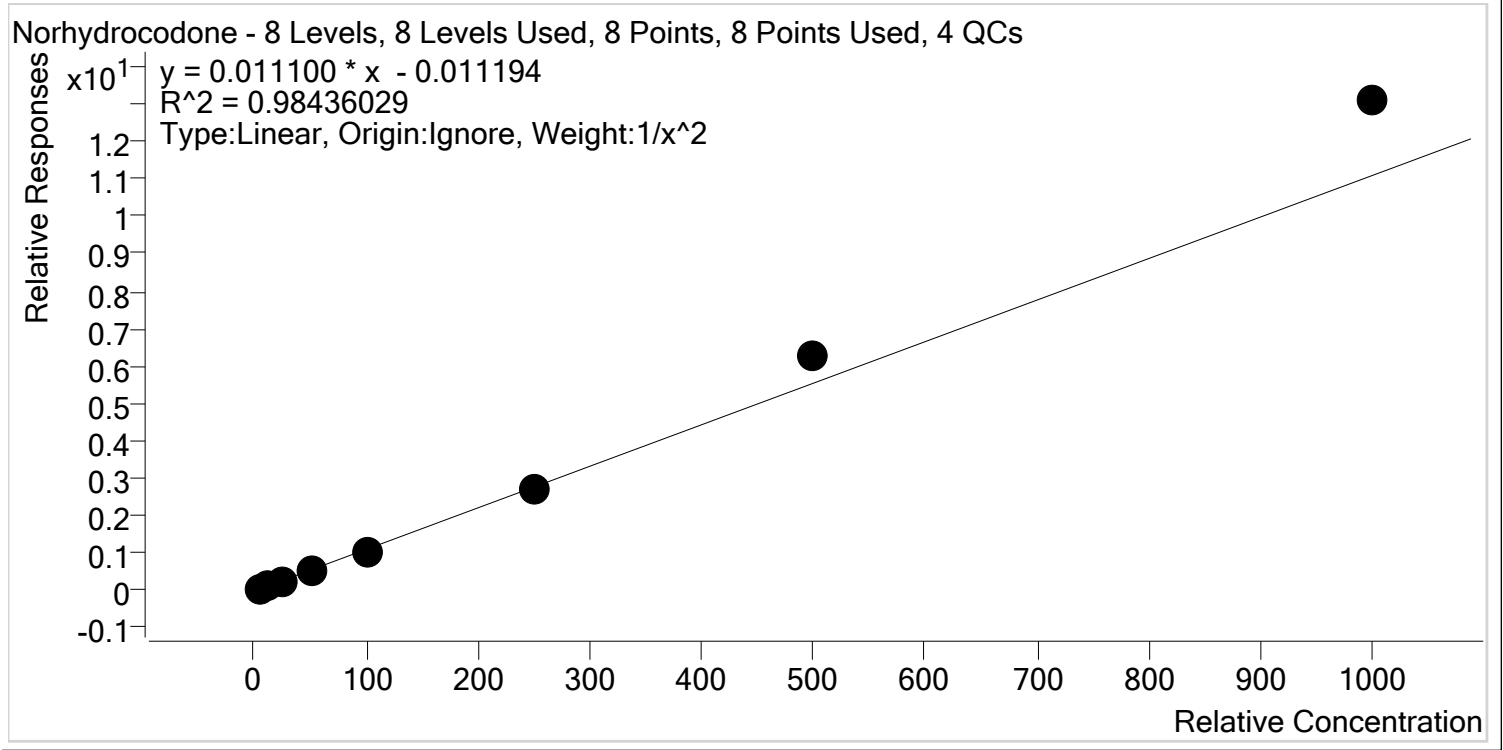


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.3
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.5
p1 Cal 4-50ng	4	✓	5.0	4.8	95.9
p1 Cal 5-100ng	5	✓	10.0	9.7	96.8
p1 Cal 6-250ng	6	✓	25.0	25.2	100.8
p1 Cal 7-500ng	7	✓	50.0	55.4	110.9
p1 Cal 8-1000ng	8	✗	100.0	128.9	128.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

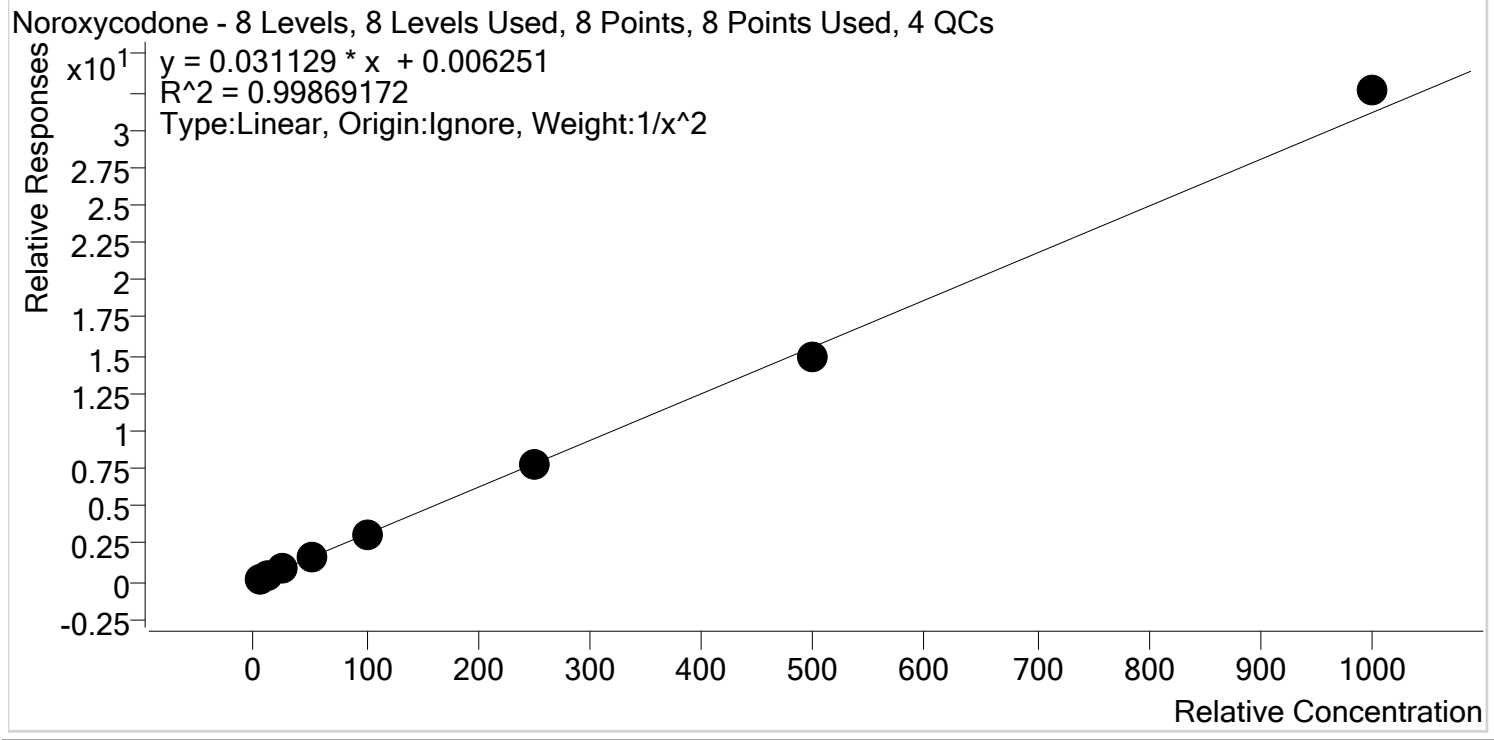


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	106.6
p1 Cal 2- 10ng	2	✓	10.0	9.3	93.2
p1 Cal 3 -25ng	3	✓	25.0	22.2	88.7
p1 Cal 4-50ng	4	✓	50.0	46.7	93.3
p1 Cal 5-100ng	5	✓	100.0	91.0	91.0
p1 Cal 6-250ng	6	✓	250.0	241.4	96.6
p1 Cal 7-500ng	7	✓	500.0	562.7	112.5
p1 Cal 8-1000ng	8	✓	1000.0	1180.4	118.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

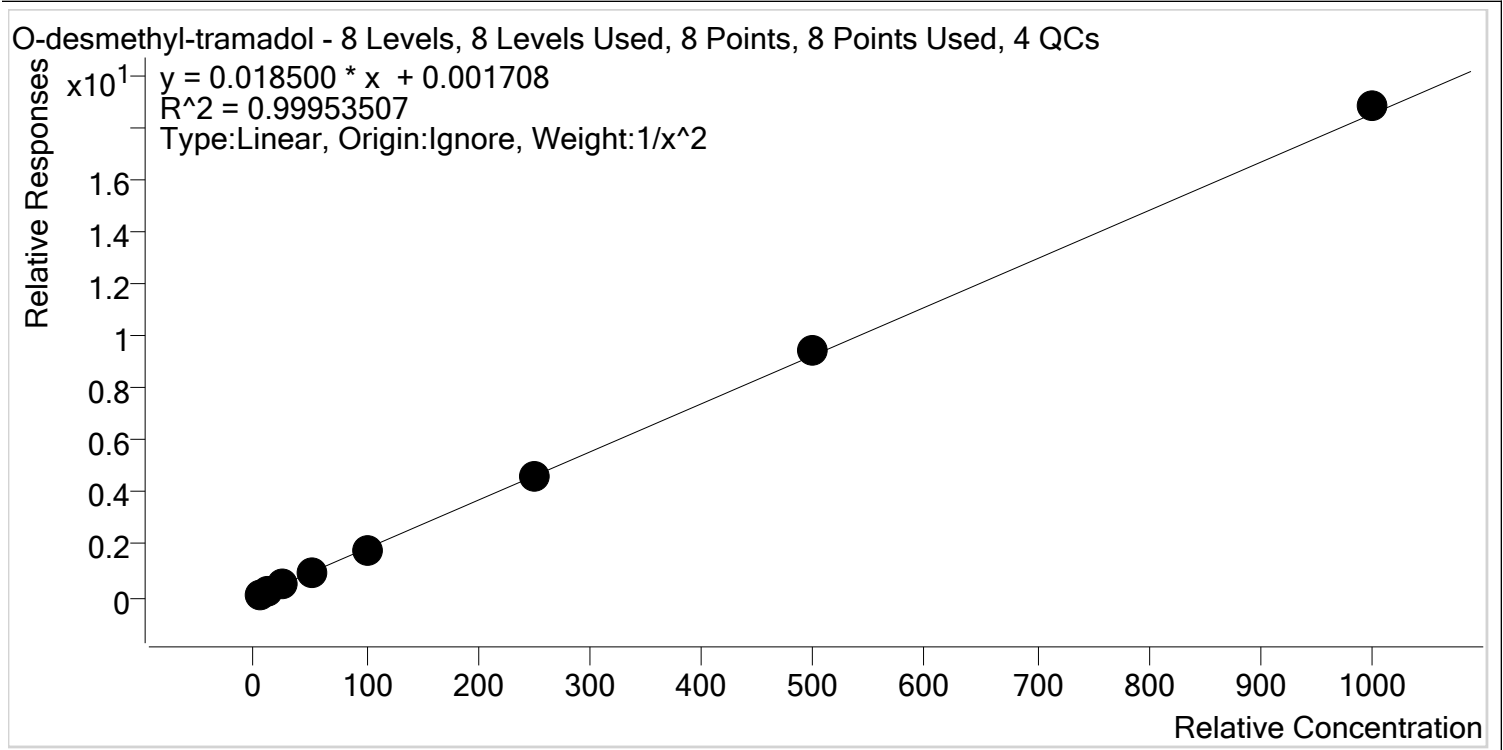


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.3
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	252.9	101.2
p1 Cal 7-500ng	7	✓	500.0	478.4	95.7
p1 Cal 8-1000ng	8	✓	1000.0	1046.9	104.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



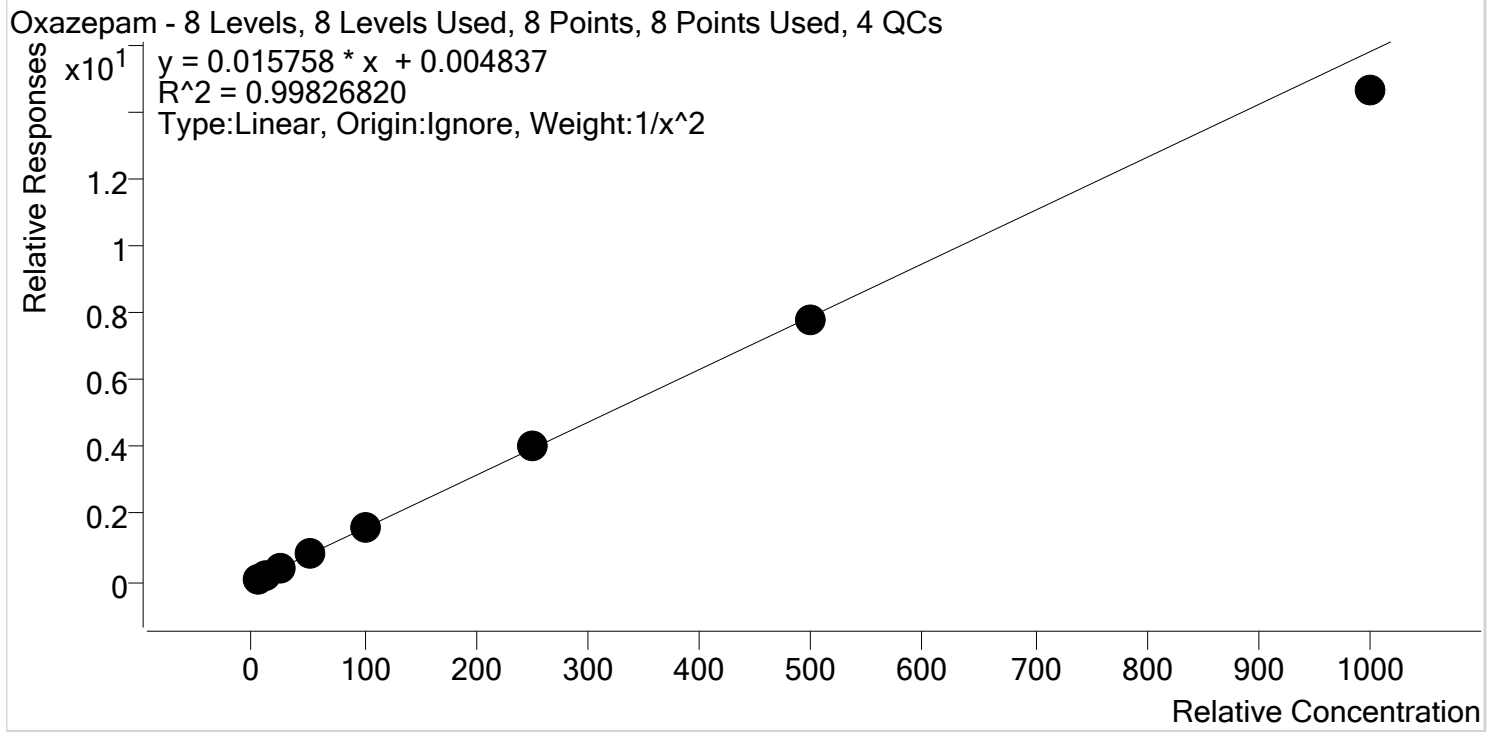
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.5
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	511.1	102.2
p1 Cal 8-1000ng	8	✓	1000.0	1016.2	101.6

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

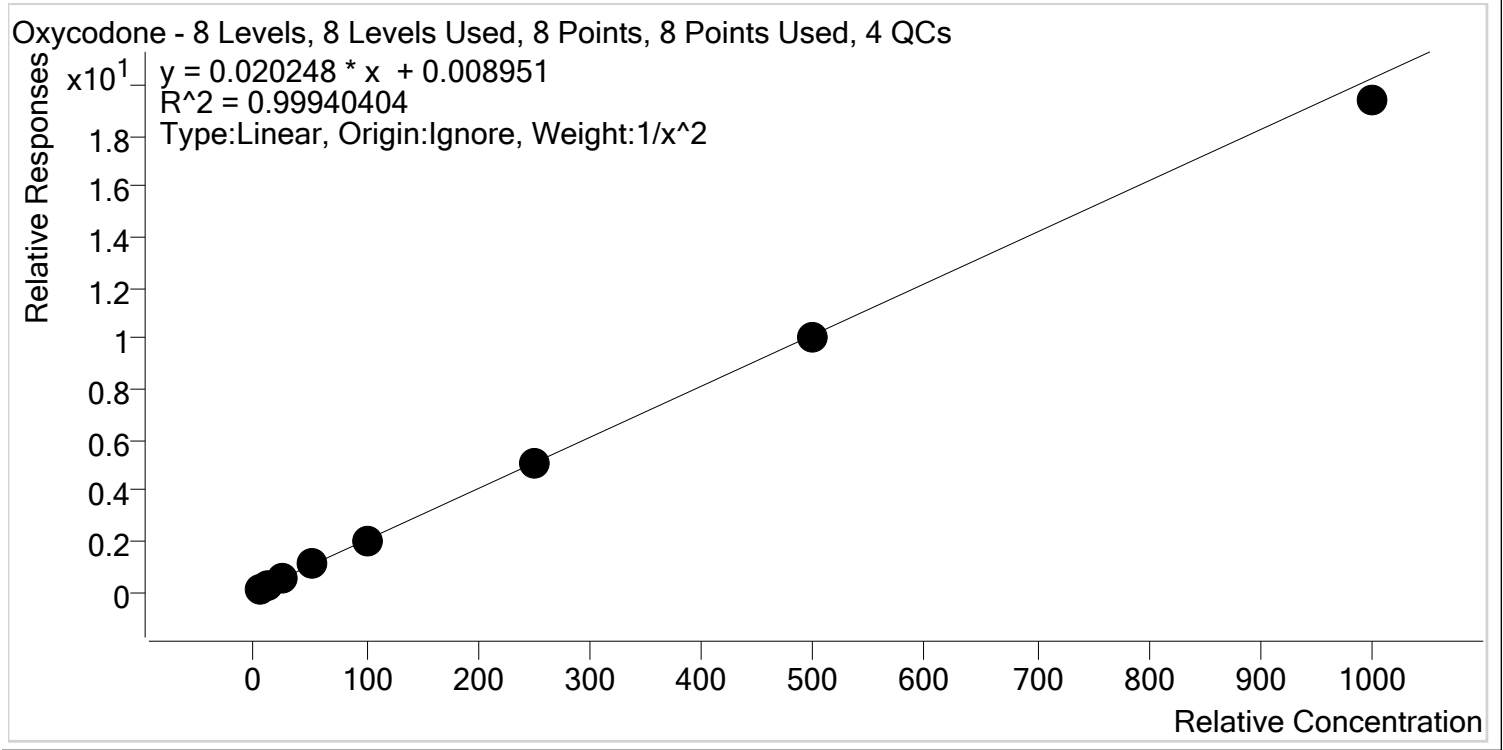


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	52.1	104.2
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	256.1	102.4
p1 Cal 7-500ng	7	✓	500.0	490.3	98.1
p1 Cal 8-1000ng	8	✓	1000.0	926.4	92.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	51.1	102.3
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	252.8	101.1
p1 Cal 7-500ng	7	✓	500.0	493.4	98.7
p1 Cal 8-1000ng	8	✓	1000.0	956.6	95.7

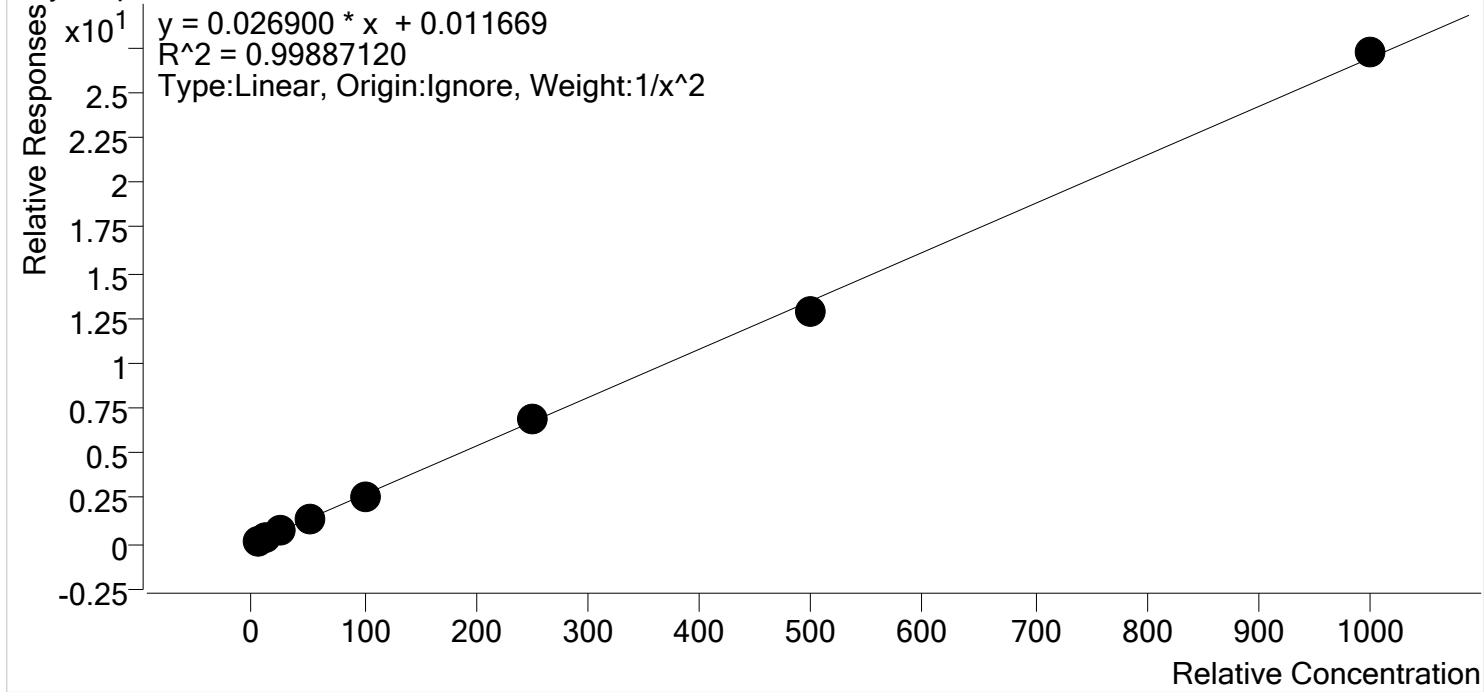
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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

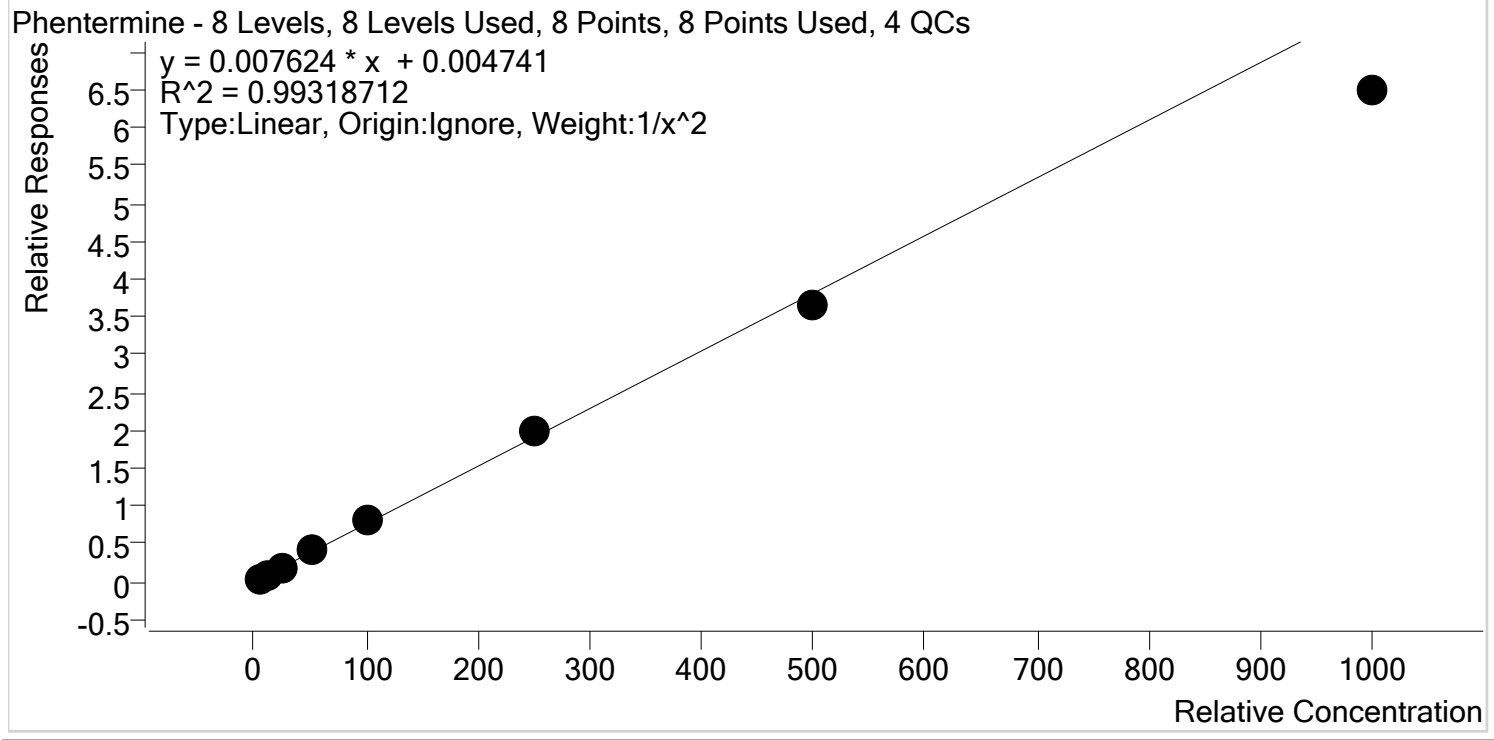


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.1
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	259.1	103.6
p1 Cal 7-500ng	7	✓	500.0	475.8	95.2
p1 Cal 8-1000ng	8	✓	1000.0	1011.4	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5



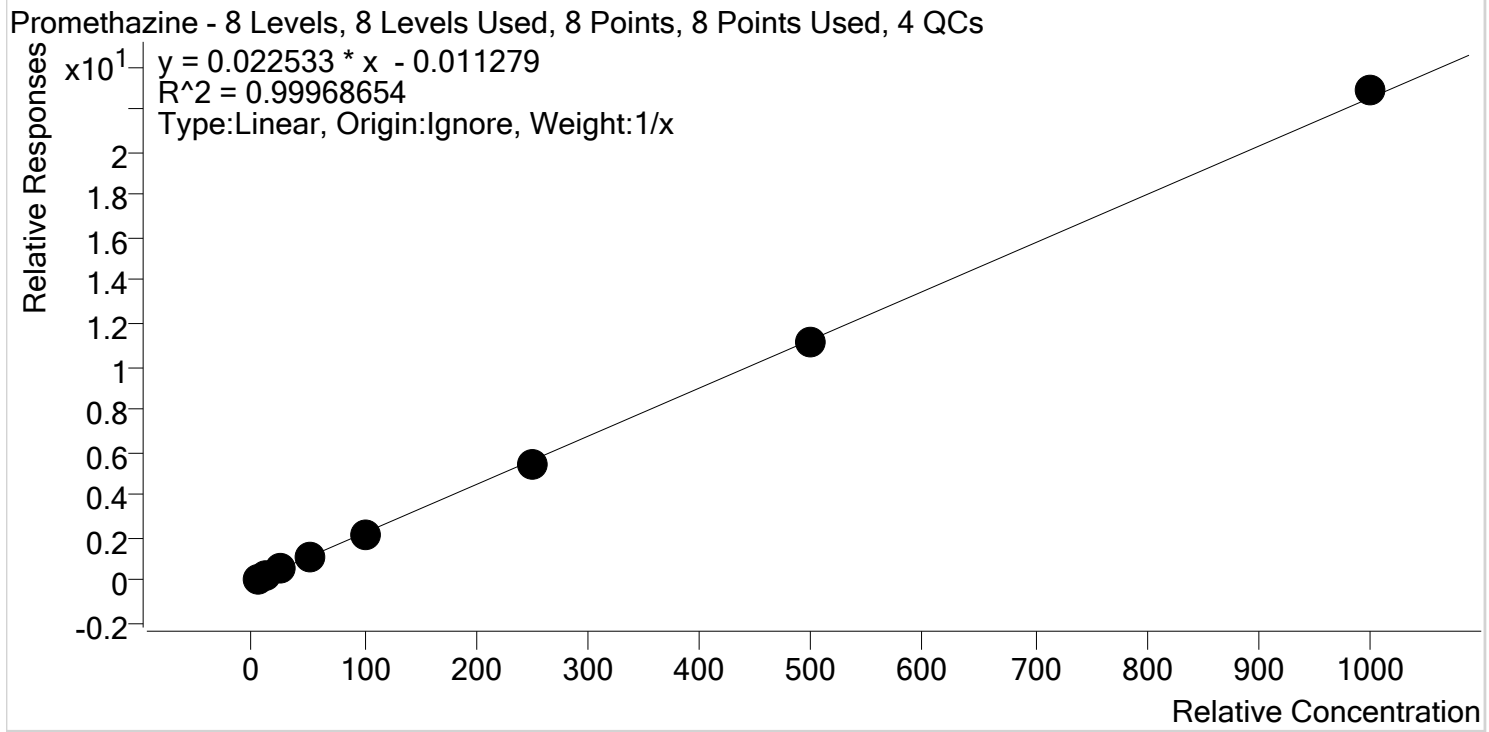
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	26.2	105.0
p1 Cal 4-50ng	4	✓	50.0	53.6	107.3
p1 Cal 5-100ng	5	✓	100.0	105.2	105.2
p1 Cal 6-250ng	6	✓	250.0	259.7	103.9
p1 Cal 7-500ng	7	✓	500.0	478.9	95.8
p1 Cal 8-1000ng	8	✓	1000.0	851.5	85.1

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3



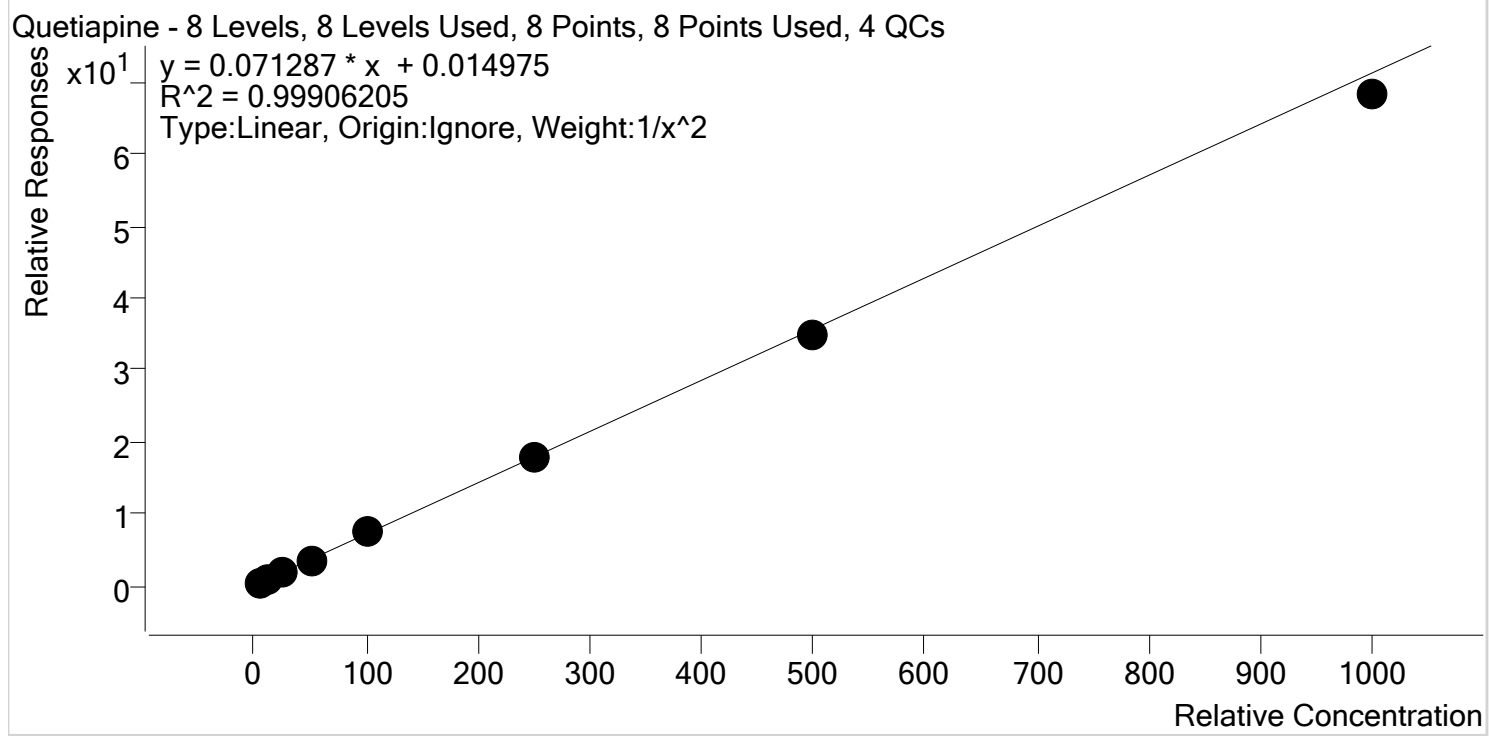
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	24.2	97.0
p1 Cal 4-50ng	4	✓	50.0	49.0	97.9
p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
p1 Cal 6-250ng	6	✓	250.0	245.2	98.1
p1 Cal 7-500ng	7	✓	500.0	493.3	98.7
p1 Cal 8-1000ng	8	✓	1000.0	1015.2	101.5

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	253.1	101.3
p1 Cal 7-500ng	7	✓	500.0	485.1	97.0
p1 Cal 8-1000ng	8	✓	1000.0	957.7	95.8

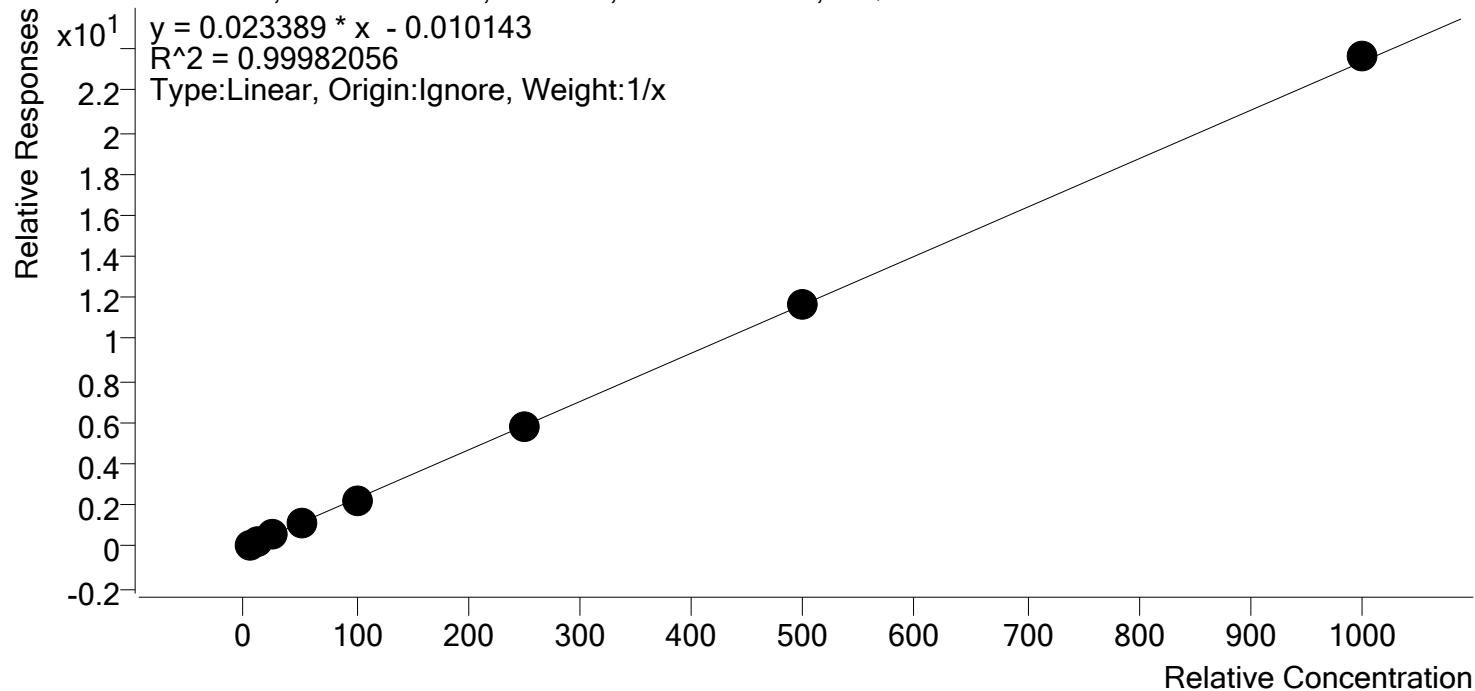
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.6
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	97.5	97.5
p1 Cal 6-250ng	6	✓	250.0	245.0	98.0
p1 Cal 7-500ng	7	✓	500.0	496.7	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1010.9	101.1

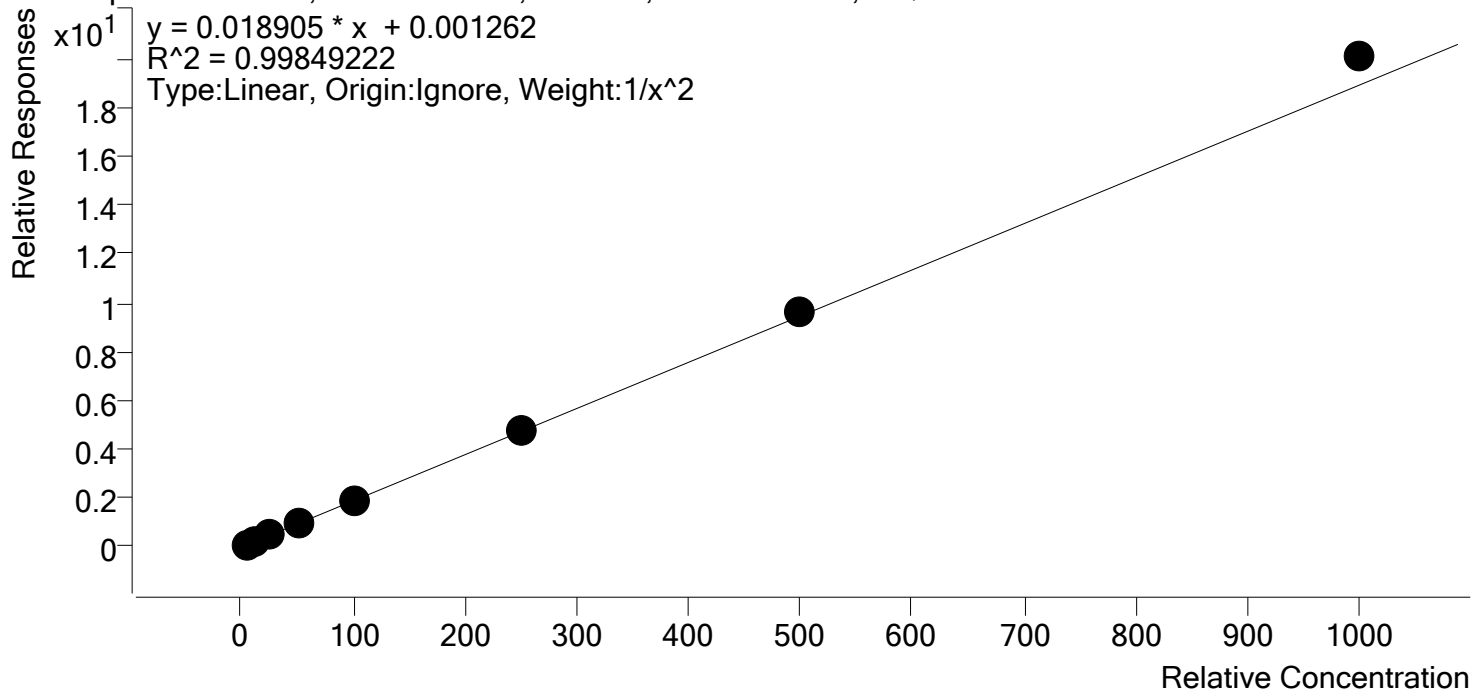


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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.4
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.8
p1 Cal 4-50ng	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	250.6	100.3
p1 Cal 7-500ng	7	✓	500.0	510.5	102.1
p1 Cal 8-1000ng	8	✓	1000.0	1061.9	106.2

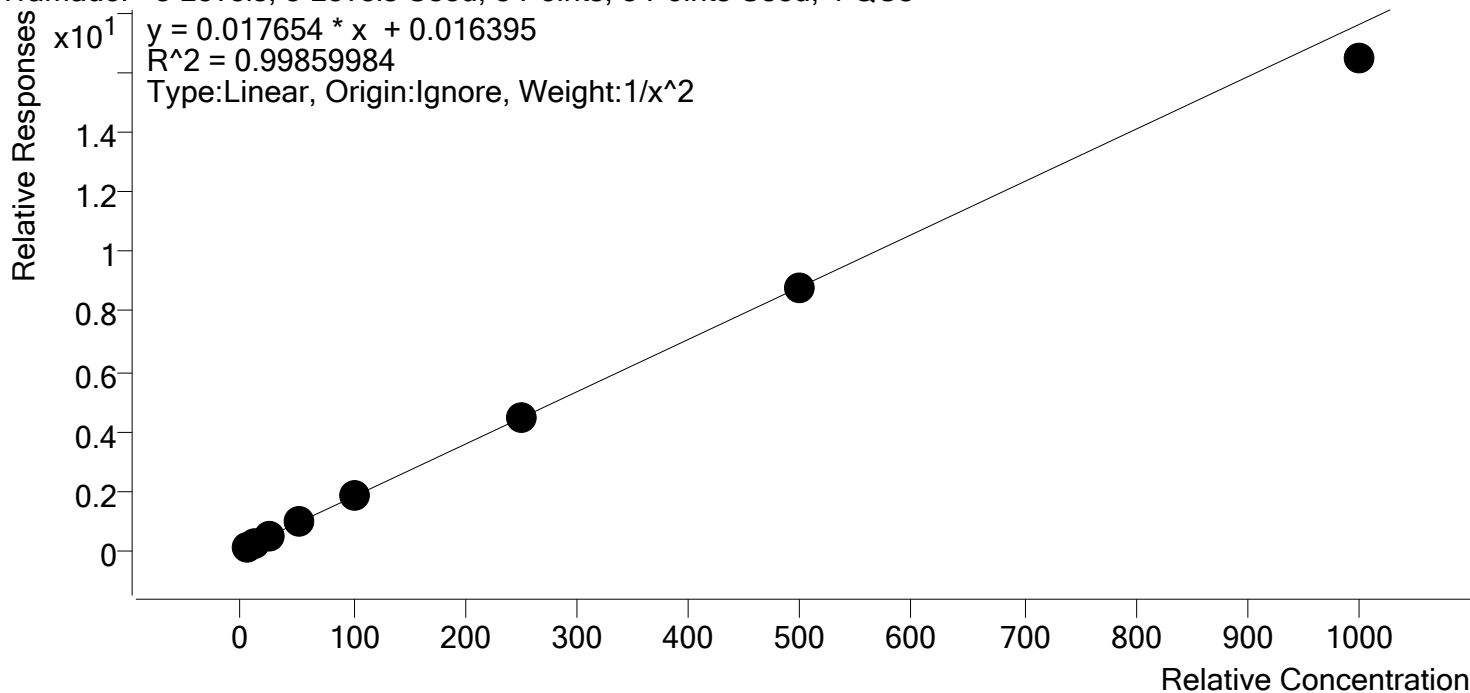
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

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



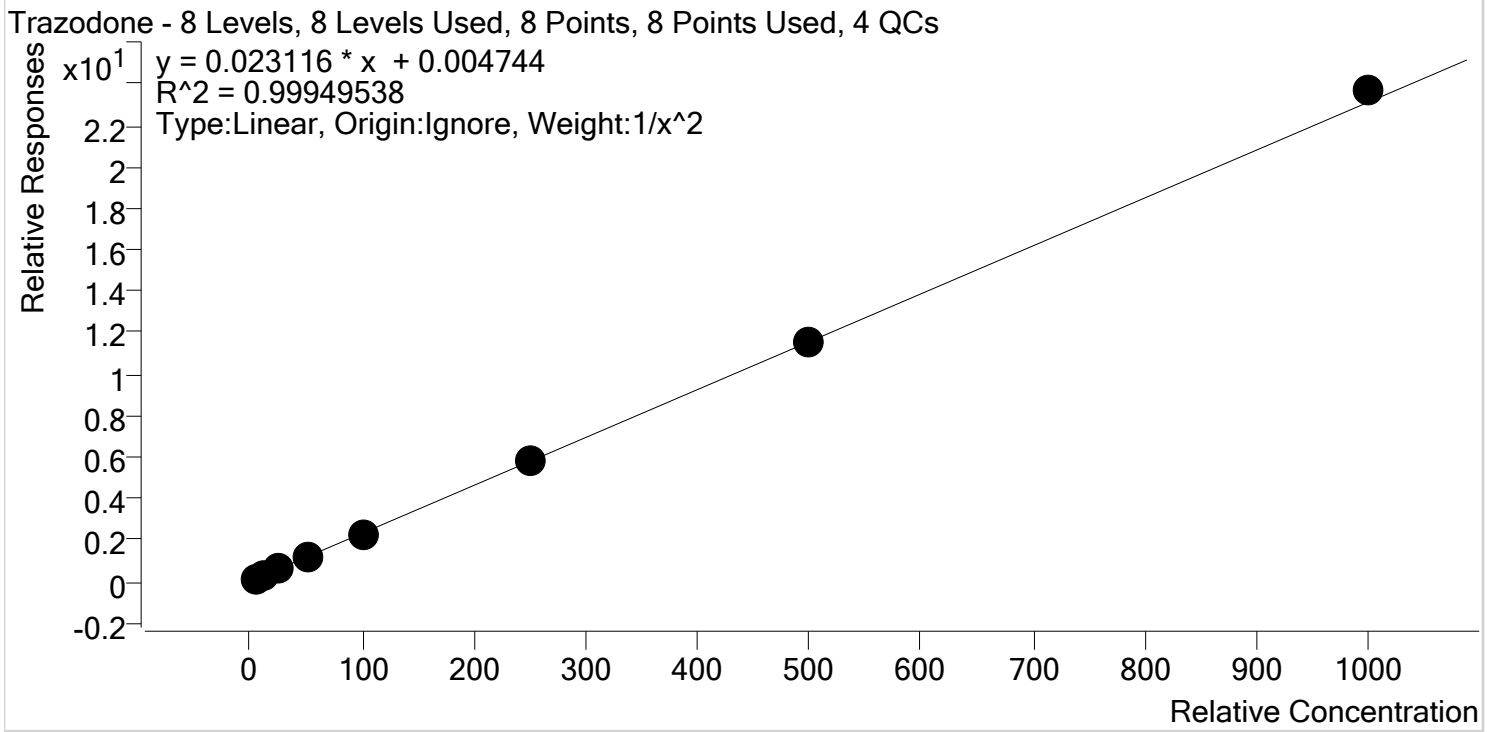
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	52.0	104.1
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	497.9	99.6
p1 Cal 8-1000ng	8	✓	1000.0	934.9	93.5

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

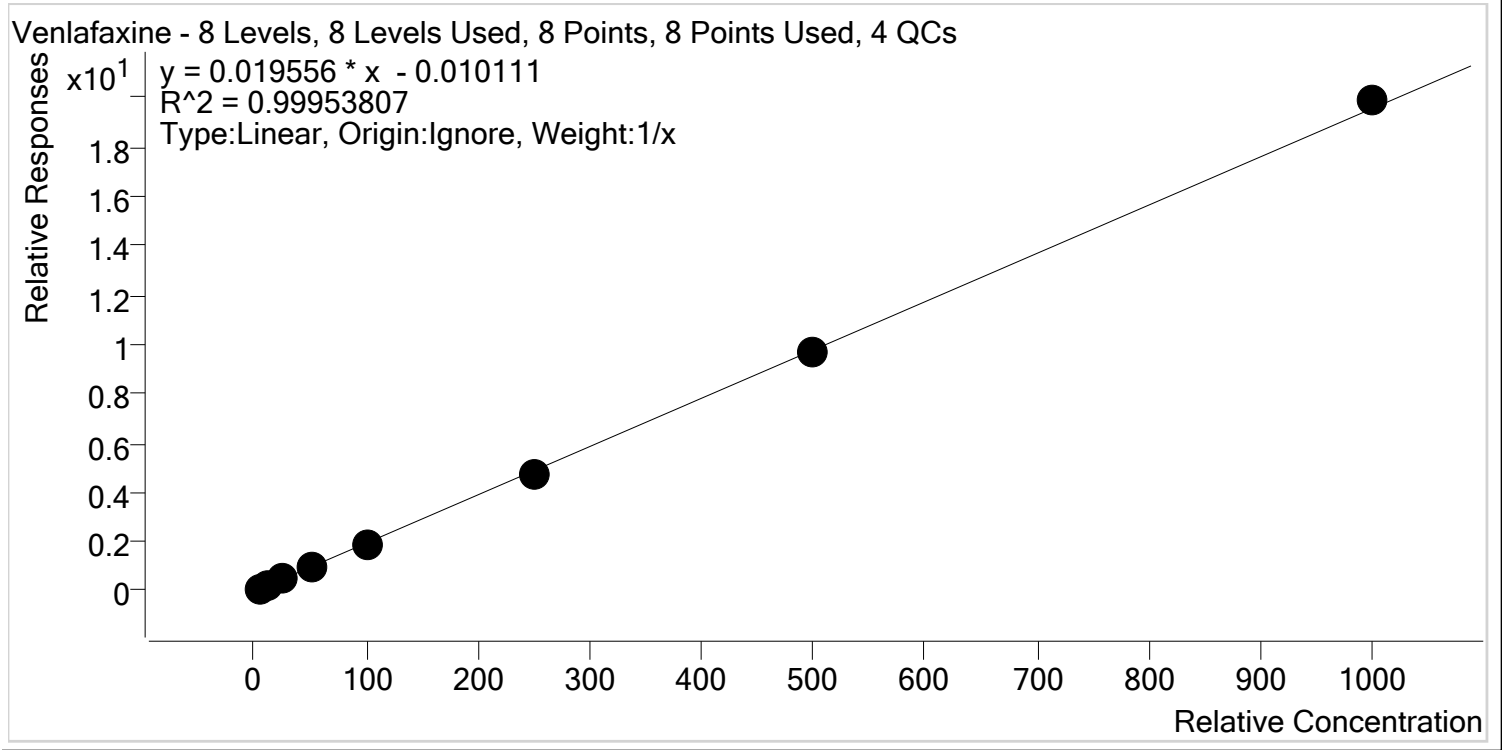


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.9
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	248.9	99.5
p1 Cal 7-500ng	7	✓	500.0	498.9	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1024.3	102.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6



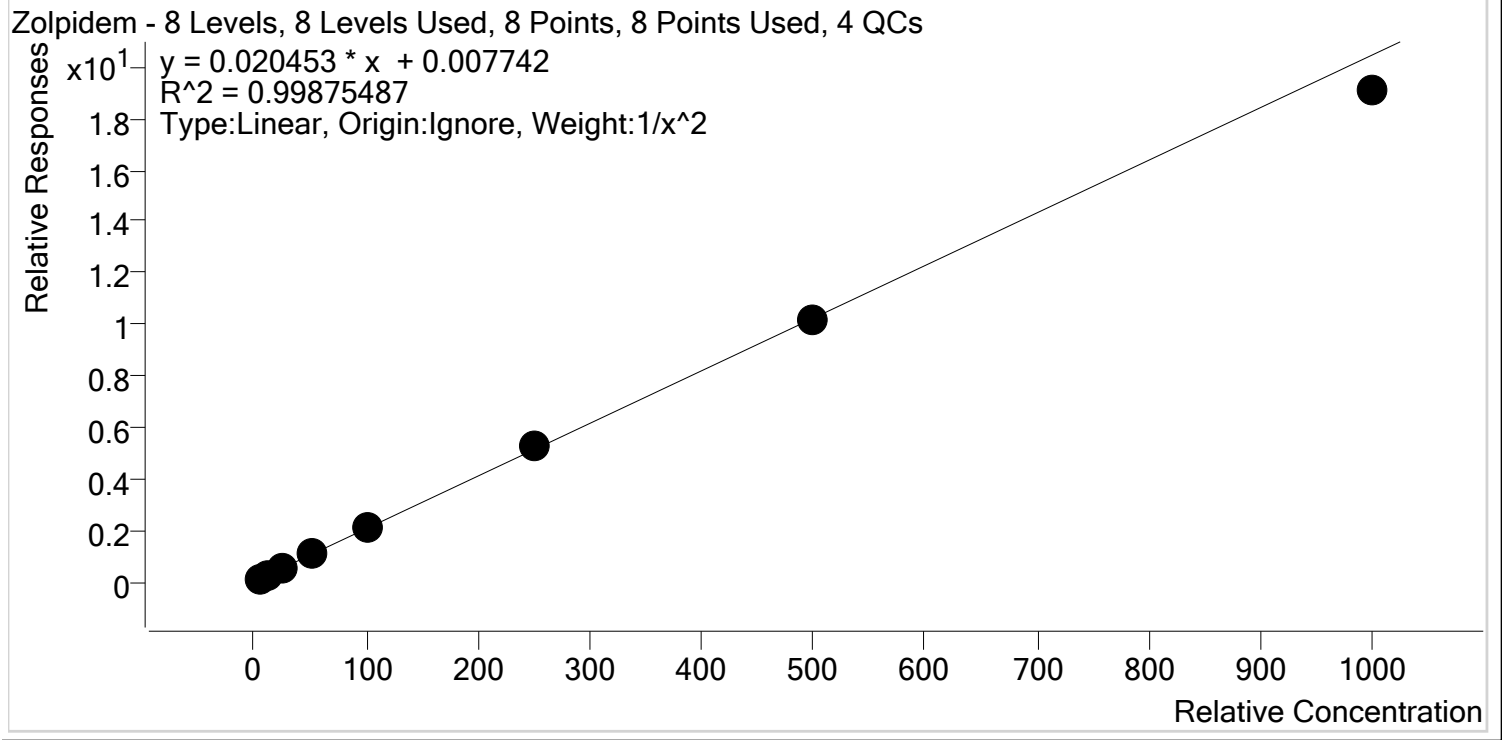
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	110.7
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	48.5	96.9
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	242.4	97.0
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1016.6	101.7

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Last Cal. Update 3/10/2020 10:00 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	254.0	101.6
p1 Cal 7-500ng	7	✓	500.0	495.6	99.1
p1 Cal 8-1000ng	8	✓	1000.0	932.4	93.2

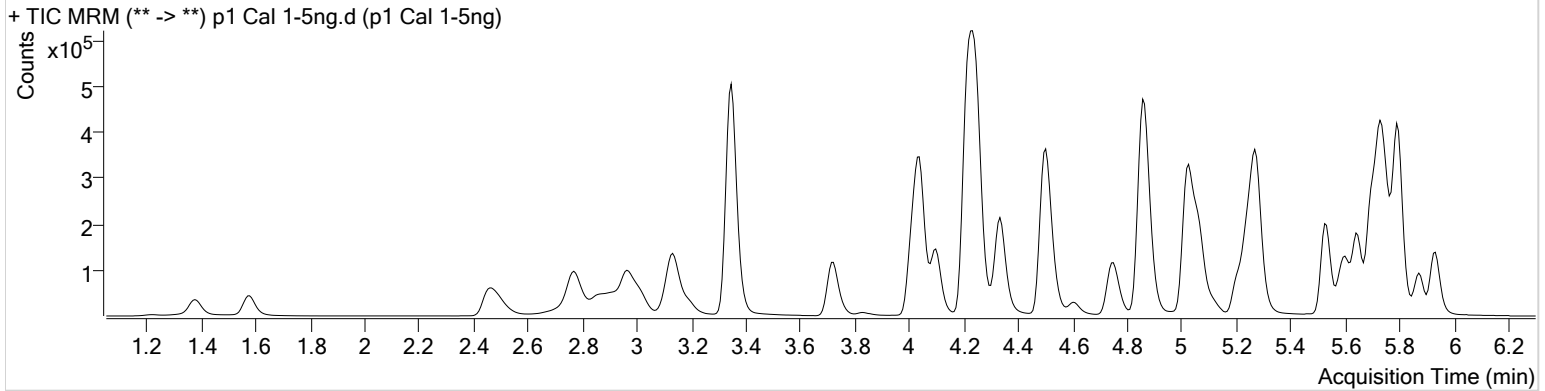
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 1-5ng.d
Type	Cal	Sample	p1 Cal 1-5ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-H12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 5:34:16 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.116	1193	507.62	69.3	1640.06	50337	0.5066 ng/ml
7-aminoclonazepam	4.237	25358	8023.54	84.3	∞	205367	4.8290 ng/ml
a-hydroxyalprazolam	5.680	11124	159.10	62.1	19958.47	49219	4.9274 ng/ml
alpha-PVP	4.344	57057	5521.82	52.7	546.65	495445	5.3964 ng/ml
Alprazolam	5.756	41957	574.46	103.6	367.77	220809	4.9644 ng/ml
Amphetamine	3.007	76787	1808.21	54.1	219.96	173475	4.8194 ng/ml
Benzoylcegonine	3.853	2094	106.22	7.4	39.71	16155	4.9785 ng/ml
Buprenorphine	5.774	1246	48.07	18.8	114.69	82418	0.5238 ng/ml
Bupropion	4.766	43059	505.99	58.0	1299.12	302887	5.0720 ng/ml
Carisoprodol	5.705	36593	∞	54.1	161.49	350098	5.0282 ng/ml
Citalopram	5.209	23953	524.41	41.3	20657.72	204333	5.2085 ng/ml
Clonazepam	5.593	52391	2251.91	33.1	2580.81	120619	4.9488 ng/ml
Cocaine	4.243	62507	742.62	45.1	3674.95	941519	5.3453 ng/ml
Codeine	2.529	7111	8943.52	102.0	147.21	62075	4.9626 ng/ml
Cyclobenzaprine	5.617	17844	∞	11.1	112.92	135474	5.0738 ng/ml
Dextromethorphan	5.252	13046	3434.38	82.6	329.45	117904	5.3425 ng/ml
Dextrorphan	4.100	12846	876.91	201.9	618.02	312815	5.0979 ng/ml
Diazepam	5.934	30606	339.42	89.7	1846.41	278215	4.9742 ng/ml
Dihydrocodeine	2.488	17676	917.80	67.3	2167.14	193090	3.7529 ng/ml
Diphenhydramine	5.279	53400	2322.61	33.5	∞	739032	5.6055 ng/ml
Doxylamine	4.514	114359	9776.51	97.5	18345.93	953649	4.7770 ng/ml
EDDP	5.244	31169	1447.66	40.0	452.31	323005	5.0681 ng/ml
Fentanyl	5.079	1828	649.46	68.2	171.01	186030	0.5056 ng/ml
Fluoxetine	5.702	20074	∞	8.1	162.82	165537	5.1387 ng/ml
Hydrocodone	2.991	20962	184.60	39.4	59.64	256399	4.8480 ng/ml
Hydromorphone	1.587	16026	370.60	78.7	228.74	117284	4.9864 ng/ml
Ketamine	4.033	52161	5960.88	37.6	205.50	466537	4.9547 ng/ml
Lamotrigine	4.261	5158	443.79	77.7	553.18	466537	4.9376 ng/ml
Lorazepam	5.734	43143	924.05	56.5	211.00	120619	4.7426 ng/ml
Meprobamate	4.881	18488	8983.57	25.0	172.01	175866	4.9116 ng/ml
Methadone	5.648	35647	1076.72	53.4	545.90	330769	5.5636 ng/ml
Methamphetamine	3.195	45930	238.12	42.6	291.91	343657	4.9085 ng/ml
Metoprolol	4.306	8412	6895.18	96.4	565.17	1161602	5.0664 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	46472	19198.16	49.1	1044.36	495445	5.1929 ng/ml
Mitragynine	5.214	5688	14164.52	37.3	32173.57	330769	5.0397 ng/ml
Morphine	1.226	2376	1075.27	24.4	859.27	4464	5.0037 ng/ml
Norbuprenorphine	4.976	131	8.30 Low	78.7	6.35 Low	8818	0.6796 ng/ml
Nordiazepam	5.881	27453	575.52	55.8	871.94	172015	4.9303 ng/ml
Norfentanyl	4.068	8121	3558.31	37.3	344.10	698636	0.5094 ng/ml
Norhydrocodone	3.046	1895	173.08	41.2	36.33	39496	5.3316 ng/ml
Noroxycodone	2.876	19272	333.86	49.0	290.52	117304	5.0769 ng/ml
O-desmethyl-tramadol	3.354	124443	1185.60	6.0	238.39	1298557	5.0876 ng/ml
Oxazepam	5.738	48141	909.00	73.3	117.11	585328	4.9123 ng/ml
Oxycodone	2.800	41777	891.98	32.4	310.32	381105	4.9718 ng/ml
Oxymorphone	1.383	15891	691.82	48.0	∞	107525	5.0603 ng/ml
Phentermine	3.751	14614	∞	2.6	13.13	345923	4.9193 ng/ml
Promethazine	5.534	40778	398.55	32.5	1265.53	369025	5.4047 ng/ml
Quetiapine	5.537	25696	6523.44	62.7	1402.74	70292	4.9179 ng/ml
Sertraline	5.770	11570	194.10	92.9	366.90	103842	5.1974 ng/ml
Temazepam	5.798	81299	3756.20	28.5	237.61	828857	5.1215 ng/ml
Tramadol	4.226	120038	7677.93	3.6	64.00	1161602	4.9250 ng/ml
Trazodone	5.113	34497	6346.73	80.2	6512.01	282805	5.0717 ng/ml
Venlafaxine	5.027	79580	807.80	35.8	280.01	810995	5.5348 ng/ml
Zolpidem	4.878	123387	565.73	30.5	4349.91	1128447	4.9674 ng/ml

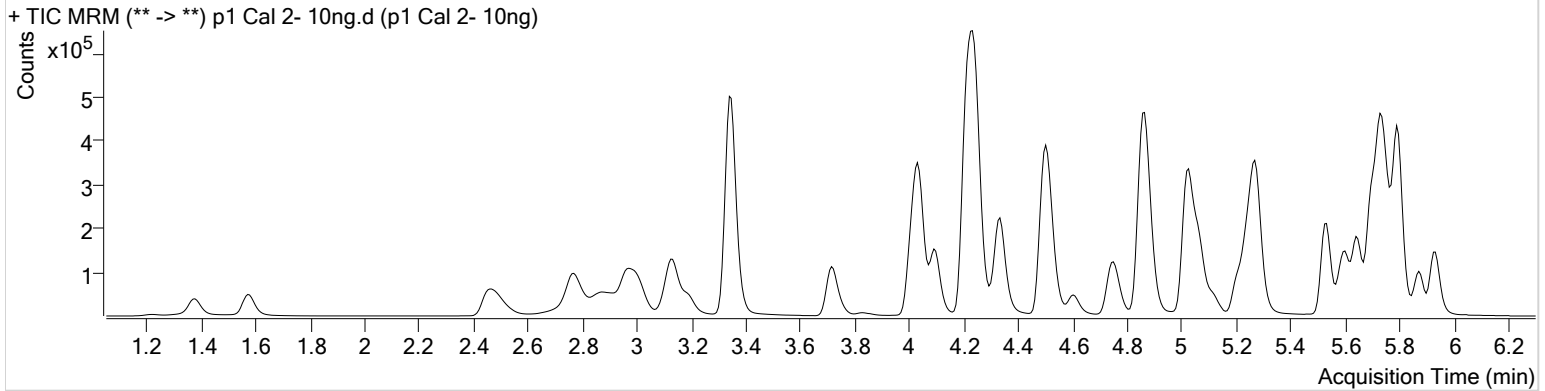
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 2- 10ng.d
Type	Cal	Sample	p1 Cal 2- 10ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-G12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 5:45:03 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	2116	∞	73.2	765.22	48057	0.9806 ng/ml
7-aminoclonazepam	4.237	47250	∞	81.8	184.92	192409	10.2920 ng/ml
a-hydroxyalprazolam	5.680	20759	491.43	61.2	284.61	46460	10.2319 ng/ml
alpha-PVP	4.344	103599	760.11	51.8	1806.54	460639	10.1966 ng/ml
Alprazolam	5.756	78632	1712.87	101.6	3147.89	199060	10.2587 ng/ml
Amphetamine	3.001	139017	4046.47	54.8	1787.67	167300	10.1801 ng/ml
Benzoylcegonine	3.853	3966	53.05	8.0	68.68	14797	10.4116 ng/ml
Buprenorphine	5.774	1962	88.69	14.9	57.28	75269	0.9249 ng/ml
Bupropion	4.766	78497	2744.20	58.1	474.65	285322	9.9183 ng/ml
Carisoprodol	5.705	65429	283.65	54.4	361.16	331567	9.8043 ng/ml
Citalopram	5.209	40928	968.54	41.2	14623.44	185241	9.8929 ng/ml
Clonazepam	5.593	92464	24663.74	33.9	767.64	112721	9.9686 ng/ml
Cocaine	4.243	114581	256028.62	44.0	∞	888401	10.1123 ng/ml
Codeine	2.509	13017	1135.28	102.3	228.90	58193	10.0825 ng/ml
Cyclobenzaprine	5.617	31240	63178.08	10.4	86.13	123672	9.6920 ng/ml
Dextromethorphan	5.252	21961	2366.53	82.1	1713.86	106524	9.7414 ng/ml
Dextrorphan	4.100	23446	413.29	202.4	533.73	299349	9.9587 ng/ml
Diazepam	5.934	55813	∞	87.5	1712.52	255984	10.0702 ng/ml
Dihydrocodeine	2.481	33233	560.58	66.5	201.71	182129	9.4965 ng/ml
Diphenhydramine	5.279	92010	2522.26	34.0	2045.86	666344	10.1255 ng/ml
Doxylamine	4.514	210342	∞	97.4	22878.93	910497	9.7336 ng/ml
EDDP	5.244	52845	2449.91	41.3	53819.21	287645	9.8153 ng/ml
Fentanyl	5.079	3128	218.90	64.2	2129.04	166055	0.9995 ng/ml
Fluoxetine	5.702	36334	24320.02	8.8	17690.97	155966	9.9251 ng/ml
Hydrocodone	2.991	38491	114.07	40.8	63.21	245171	10.1840 ng/ml
Hydromorphone	1.581	29718	249.65	77.9	618.69	110317	10.0551 ng/ml
Ketamine	4.026	95838	6600.05	37.3	479.19	441383	10.0573 ng/ml
Lamotrigine	4.254	8955	1048.95	83.7	1006.43	441383	9.8124 ng/ml
Lorazepam	5.734	75551	∞	58.9	869.89	112721	9.9382 ng/ml
Meprobamate	4.881	31625	685.97	28.0	59.10	165154	9.8873 ng/ml
Methadone	5.648	60284	3228.99	56.0	3401.29	294991	10.1040 ng/ml
Methamphetamine	3.195	83051	∞	42.0	185.01	335413	10.0288 ng/ml
Metoprolol	4.306	14929	5350.96	99.7	∞	1102738	9.7430 ng/ml

AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	81230	1335.89	49.1	∞	460639	9.6998 ng/ml
Mitragynine	5.214	9918	21554.24	37.3	178.80	294991	9.9477 ng/ml
Morphine	1.226	4243	2886.94	25.4	517.96	4280	9.8903 ng/ml
Norbuprenorphine	4.976	167	25.66	84.7	9.11 Low	8293	0.9278 ng/ml
Nordiazepam	5.881	51110	943.34	56.6	337.33	159005	10.1991 ng/ml
Norfentanyl	4.061	15160	1234.68	37.5	202.12	655998	0.9934 ng/ml
Norhydrocodone	3.039	3484	82.10	41.8	127.85	37764	9.3191 ng/ml
Noroxycodone	2.876	35309	528.23	49.9	11.93	114200	9.7315 ng/ml
O-desmethyl-tramadol	3.348	221065	4631.81	6.2	880.32	1214198	9.7489 ng/ml
Oxazepam	5.738	89628	1779.06	69.1	∞	541001	10.2064 ng/ml
Oxycodone	2.794	76523	796.28	31.6	1019.81	362144	9.9937 ng/ml
Oxymorphone	1.376	28618	910.76	48.0	196.23	104928	9.7050 ng/ml
Phentermine	3.751	26481	488.87	2.7	30.25	329074	9.9331 ng/ml
Promethazine	5.534	72946	2141.67	31.0	620.63	336416	10.1237 ng/ml
Quetiapine	5.537	47591	51856.47	60.0	60227.62	64274	10.1766 ng/ml
Sertraline	5.770	21671	237.43	89.7	55785.38	95192	10.1669 ng/ml
Temazepam	5.798	143199	356.01	30.2	1851.96	775775	9.6970 ng/ml
Tramadol	4.226	214526	6433.72	3.3	405.59	1102738	10.0911 ng/ml
Trazodone	5.113	58192	27264.95	81.3	12177.46	254315	9.6937 ng/ml
Venlafaxine	5.027	143481	1134.15	37.3	491.27	759173	10.1815 ng/ml
Zolpidem	4.878	224793	20713.36	31.0	4505.60	1060704	9.9830 ng/ml

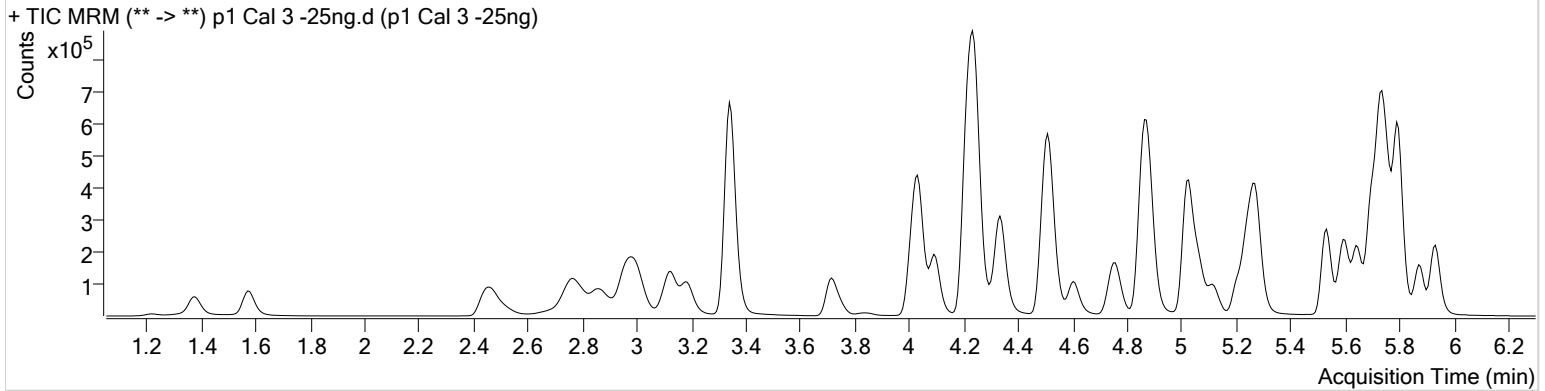
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 3 -25ng.d
Type	Cal	Sample	p1 Cal 3 -25ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-F12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 5:55:40 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	5483	2118.63	71.3	26625.98	50472	2.4857 ng/ml
7-aminoclonazepam	4.237	125990	27490.45	81.8	261.77	207108	26.5232 ng/ml
a-hydroxyalprazolam	5.680	53144	2485.01	63.0	510.35	50209	24.9251 ng/ml
alpha-PVP	4.344	254697	1832.90	51.0	1216.71	465268	24.3036 ng/ml
Alprazolam	5.756	207847	946.92	101.7	1050.57	217084	24.7838 ng/ml
Amphetamine	2.994	350289	9177.17	53.9	5297.38	169940	27.1652 ng/ml
Benzoylcegonine	3.847	9907	1555.61	7.9	79.68	16534	23.4078 ng/ml
Buprenorphine	5.780	4159	177.11	15.3	568.25	62594	2.4036 ng/ml
Bupropion	4.766	183300	38151.73	58.2	3101.92	269429	24.6884 ng/ml
Carisoprodol	5.705	175004	18436.51	53.5	1628.43	351960	25.2370 ng/ml
Citalopram	5.209	87770	12294.57	40.8	82929.74	163078	24.2220 ng/ml
Clonazepam	5.593	243785	22369.40	34.4	5961.14	121144	25.4735 ng/ml
Cocaine	4.243	285978	23268.99	43.9	10533.84	899469	24.5059 ng/ml
Codeine	2.483	33898	9632.74	100.3	5395.45	61583	25.4101 ng/ml
Cyclobenzaprine	5.617	69222	∞	9.4	206.91	105630	25.0764 ng/ml
Dextromethorphan	5.252	50306	1938.12	80.4	1046.00	93997	24.8964 ng/ml
Dextrorphan	4.100	55580	79390.07	207.4	6700.26	288744	24.8525 ng/ml
Diazepam	5.934	145114	10355.69	87.6	849.21	271617	24.9876 ng/ml
Dihydrocodeine	2.467	86523	1006.93	66.5	433.12	195119	25.9808 ng/ml
Diphenhydramine	5.279	200337	149898.73	33.8	124.44	591591	23.8971 ng/ml
Doxylamine	4.514	524062	75099.81	96.9	1899513.35	918867	24.8715 ng/ml
EDDP	5.244	141648	12259.60	40.7	353180.32	310593	24.6383 ng/ml
Fentanyl	5.079	6324	552.35	64.0	5884.24	143286	2.3855 ng/ml
Fluoxetine	5.702	77345	388.97	9.2	∞	137081	24.1198 ng/ml
Hydrocodone	2.985	98053	176.12	41.0	121.85	252839	26.5522 ng/ml
Hydromorphone	1.581	76967	378.84	80.4	∞	117565	24.7662 ng/ml
Ketamine	4.026	243533	11511.53	38.0	2128.60	457563	25.3226 ng/ml
Lamotrigine	4.254	24187	4995.01	78.9	1246.92	457563	27.0133 ng/ml
Lorazepam	5.728	199919	555.10	58.6	865.78	121144	26.2286 ng/ml
Meprobamate	4.875	85221	6194.17	27.9	959.56	177689	26.4873 ng/ml
Methadone	5.648	129730	∞	54.3	7927.89	256905	24.2351 ng/ml
Methamphetamine	3.188	212776	747.23	42.3	557.96	352587	26.0186 ng/ml
Metoprolol	4.306	37769	68559.30	97.1	∞	1123112	24.6642 ng/ml

AM #28 Multi-Drug Quant. Results

\$



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	189698	26731.43	49.7	26010.02	465268	22.3330 ng/ml
Mitragynine	5.214	20553	16714.06	40.3	1372.53	256905	23.8083 ng/ml
Morphine	1.220	11139	12144.57	24.5	879.94	4605	25.0903 ng/ml
Norbuprenorphine	4.976	428	36.34	77.6	446.81	7195	2.8068 ng/ml
Nordiazepam	5.881	132533	1085.07	56.7	1769.54	170527	25.0361 ng/ml
Norfentanyl	4.061	38552	2060.16	37.5	709.65	693663	2.3613 ng/ml
Norhydrocodone	3.032	9115	172.52	43.6	103.42	38788	22.1798 ng/ml
Noroxycodone	2.869	90370	1380.92	49.5	5455.10	117857	24.4312 ng/ml
O-desmethyl-tramadol	3.348	588661	17994.96	6.1	804.91	1295149	24.4753 ng/ml
Oxazepam	5.738	228762	8077.12	71.2	2655.40	566439	25.3217 ng/ml
Oxycodone	2.787	202067	1658.67	31.7	719.61	386234	25.3958 ng/ml
Oxymorphone	1.376	76375	414.93	46.6	∞	111704	24.9835 ng/ml
Phentermine	3.751	68915	∞	2.5	99.64	336407	26.2479 ng/ml
Promethazine	5.534	154716	75872.23	30.8	870.50	289202	24.2430 ng/ml
Quetiapine	5.537	111980	1973.72	59.6	21803.40	60422	25.7875 ng/ml
Sertraline	5.770	46741	2777.69	91.7	∞	82502	24.6560 ng/ml
Temazepam	5.798	382035	835.30	30.4	282.73	832404	24.2095 ng/ml
Tramadol	4.226	530001	4645.77	3.3	430.34	1123112	25.8025 ng/ml
Trazodone	5.113	134006	921028.47	79.3	24401.63	229999	25.0002 ng/ml
Venlafaxine	5.027	341324	1662.56	36.7	479.69	739222	24.1281 ng/ml
Zolpidem	4.884	593782	424.99	30.8	12370.23	1124604	25.4360 ng/ml

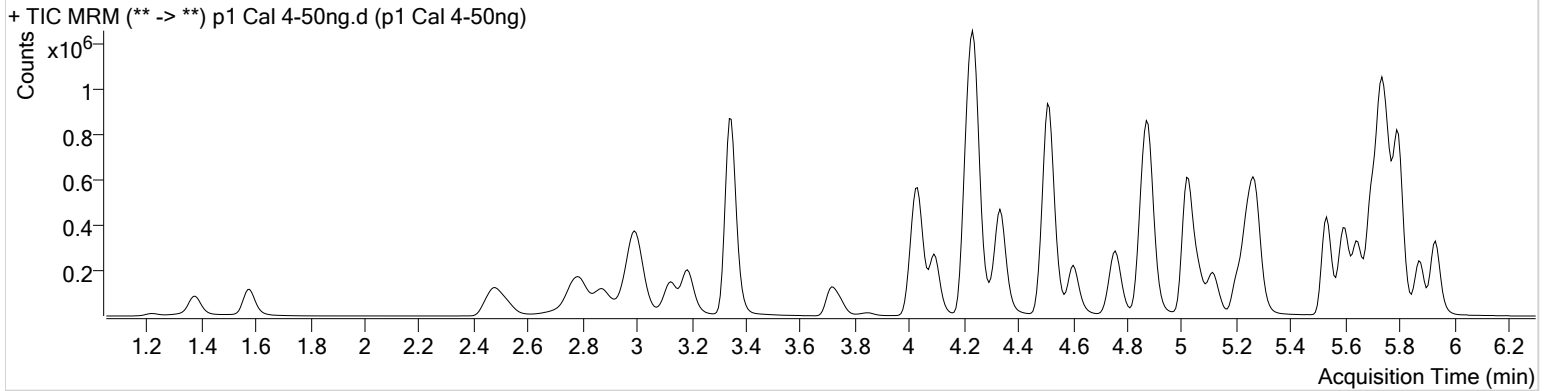
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 4-50ng.d
Type	Cal	Sample	p1 Cal 4-50ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-E12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 6:06:16 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	10809	10162.29	70.9	13036.35	50409	4.9504 ng/ml
7-aminoclonazepam	4.231	245483	8055.34	80.9	15599.64	202252	53.6120 ng/ml
a-hydroxyalprazolam	5.680	106338	1704.40	63.2	1037.14	49474	51.1312 ng/ml
alpha-PVP	4.344	529434	2015.08	50.7	2775.07	472859	49.3331 ng/ml
Alprazolam	5.756	406748	1469.83	101.8	∞	209743	50.1395 ng/ml
Amphetamine	3.001	721818	28728.42	52.1	17423.41	178385	54.5714 ng/ml
Benzoylcegonine	3.847	19573	1856.77	7.3	930.94	15771	48.6024 ng/ml
Buprenorphine	5.780	8566	236.07	17.1	294.73	64366	4.8443 ng/ml
Bupropion	4.766	404114	146563.88	58.1	4180.53	291588	50.4075 ng/ml
Carisoprodol	5.705	344718	∞	54.0	3278.76	343637	51.2716 ng/ml
Citalopram	5.209	193110	2001.62	41.3	405.63	175894	49.4987 ng/ml
Clonazepam	5.593	489282	∞	33.7	195924.83	118079	53.1953 ng/ml
Cocaine	4.244	576850	82782.85	43.9	16975.49	898295	49.2016 ng/ml
Codeine	2.503	66743	3349.53	104.2	783.85	61993	50.0933 ng/ml
Cyclobenzaprine	5.617	149565	488.32	9.8	507.78	114231	50.0598 ng/ml
Dextromethorphan	5.252	104337	∞	79.8	4679.32	97512	49.5298 ng/ml
Dextrorphan	4.100	116225	293795.90	209.3	3504.41	302384	49.8845 ng/ml
Diazepam	5.934	289527	918.47	87.6	732.79	267430	50.8559 ng/ml
Dihydrocodeine	2.481	177053	10039.36	67.5	3087.91	193550	55.7531 ng/ml
Diphenhydramine	5.279	438123	13407.69	33.7	1477.52	622527	48.9700 ng/ml
Doxylamine	4.514	1084198	42580.44	98.0	91028.02	939389	50.9174 ng/ml
EDDP	5.244	327185	2107.18	42.9	12573.16	357674	49.6046 ng/ml
Fentanyl	5.079	13861	317.93	65.5	38247.15	155244	4.8595 ng/ml
Fluoxetine	5.702	168390	21572.56	8.9	1218.15	143532	50.2142 ng/ml
Hydrocodone	2.985	195461	∞	41.8	170.26	252702	53.9027 ng/ml
Hydromorphone	1.581	153887	1689.95	78.9	1470.84	114523	51.0751 ng/ml
Ketamine	4.026	491061	997.92	38.6	1239.62	457581	51.5276 ng/ml
Lamotrigine	4.254	47394	7856.37	78.9	1747.32	457581	53.7948 ng/ml
Lorazepam	5.728	376228	∞	57.6	2280.49	118079	51.7609 ng/ml
Meprobamate	4.875	167343	390755.28	26.2	4881.02	171591	55.0429 ng/ml
Methadone	5.648	274296	3064.69	53.4	21286.76	271290	48.0262 ng/ml
Methamphetamine	3.188	435517	1545.64	42.6	1750.23	359501	53.3363 ng/ml
Metoprolol	4.306	78195	216247.37	96.2	∞	1133352	50.9302 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	402093	8336.33	49.5	5628.47	472859	46.5007 ng/ml
Mitragynine	5.214	46443	51312.15	38.3	∞	271290	51.0605 ng/ml
Morphine	1.220	22118	1439.82	23.9	1615.09	4473	51.9841 ng/ml
Norbuprenorphine	4.976	912	217.59	64.4	378.32	7610	5.6947 ng/ml
Nordiazepam	5.881	268561	2024.82	55.9	1410.54	167229	52.0158 ng/ml
Norfentanyl	4.061	80758	457.25	37.2	1078.86	712317	4.7966 ng/ml
Norhydrocodone	3.039	18809	205.47	42.6	186.52	37121	46.6583 ng/ml
Noroxycodone	2.869	187770	1785.56	48.5	3788.93	116398	51.6207 ng/ml
O-desmethyl-tramadol	3.348	1179588	30633.51	6.0	4525.24	1280293	49.7087 ng/ml
Oxazepam	5.738	450828	15705.47	70.7	1516.49	546034	52.0876 ng/ml
Oxycodone	2.794	402612	2904.02	32.0	1462.21	385524	51.1341 ng/ml
Oxymorphone	1.376	146658	∞	49.7	558.38	104827	51.5755 ng/ml
Phentermine	3.751	143913	2940.20	2.6	358.79	347815	53.6492 ng/ml
Promethazine	5.534	335751	560.72	30.6	898.34	307423	48.9704 ng/ml
Quetiapine	5.537	231766	2885.21	60.6	9183.84	64491	50.2028 ng/ml
Sertraline	5.770	98094	1245.48	92.8	675.89	84760	49.9147 ng/ml
Temazepam	5.798	752644	3884.28	30.5	3242.52	811330	49.0019 ng/ml
Tramadol	4.226	1059772	1099.76	3.4	516.68	1133352	52.0392 ng/ml
Trazodone	5.113	287359	19646.53	78.4	36882.49	242654	51.0257 ng/ml
Venlafaxine	5.020	720451	5910.90	36.5	1045.03	768368	48.4638 ng/ml
Zolpidem	4.878	1180038	126270.18	30.8	22782.53	1113785	51.4216 ng/ml

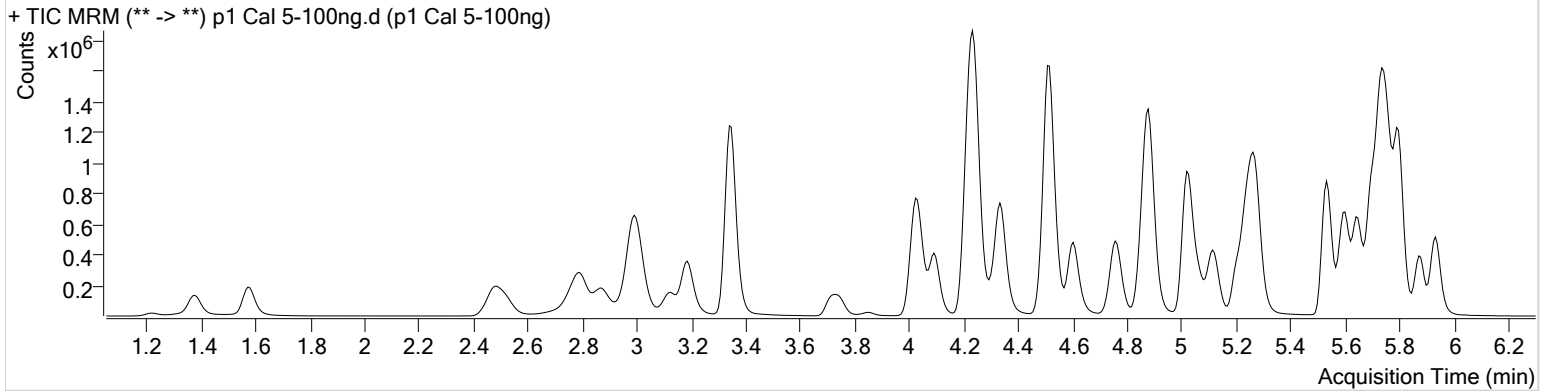
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 5-100ng.d
Type	Cal	Sample	p1 Cal 5-100ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-D12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 6:16:51 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	20693	2882.21	72.3	3180.64	49868	9.6230 ng/ml
7-aminoclonazepam	4.231	440907	634.10	81.5	11816.84	188146	104.1581 ng/ml
a-hydroxyalprazolam	5.680	195489	614.47	63.5	753.93	45727	102.1982 ng/ml
alpha-PVP	4.344	1003559	56743.40	51.7	908.84	464111	94.9405 ng/ml
Alprazolam	5.756	737351	1385.70	103.5	1824.38	193653	98.3899 ng/ml
Amphetamine	3.001	1318311	42542.04	53.7	8611.58	168962	106.4253 ng/ml
Benzoylcegonine	3.847	38474	455.64	7.8	278.64	15502	97.2993 ng/ml
Buprenorphine	5.780	21936	674.84	15.4	∞	80731	9.9219 ng/ml
Bupropion	4.766	794003	1516.14	58.6	13468.17	291520	99.1701 ng/ml
Carisoprodol	5.705	621750	1475.94	54.6	1313.14	321100	99.2928 ng/ml
Citalopram	5.209	452592	24045.55	40.9	166492.54	206188	99.0516 ng/ml
Clonazepam	5.593	905722	2596.54	33.7	∞	112373	104.1332 ng/ml
Cocaine	4.243	1069992	184459.72	44.6	43123.64	851021	96.0569 ng/ml
Codeine	2.509	128234	199.07	101.7	460.14	59933	99.9581 ng/ml
Cyclobenzaprine	5.617	370897	697056.47	9.9	632.42	142852	99.2264 ng/ml
Dextromethorphan	5.252	249332	36548.03	80.1	878.88	117258	98.1857 ng/ml
Dextrorphan	4.093	228265	1230.29	208.9	4887.22	302213	98.2789 ng/ml
Diazepam	5.934	548565	1282.98	87.7	4884.54	258092	100.0498 ng/ml
Dihydrocodeine	2.481	333811	3773.44	67.3	1451.76	189237	109.3952 ng/ml
Diphenhydramine	5.279	1004001	1039.13	33.3	128787.97	733758	94.6002 ng/ml
Doxylamine	4.514	2181147	20615.07	96.8	277451.73	957192	101.0868 ng/ml
EDDP	5.244	720270	3532.76	42.9	∞	399946	97.8369 ng/ml
Fentanyl	5.079	36633	2202.66	62.8	233.76	198504	10.0793 ng/ml
Fluoxetine	5.702	410511	549.63	8.9	6840.22	175927	99.9310 ng/ml
Hydrocodone	2.985	374296	∞	40.5	∞	252774	104.0594 ng/ml
Hydromorphone	1.581	289415	1061.12	78.2	952.87	110786	99.5154 ng/ml
Ketamine	4.026	933965	26823.02	38.1	976.88	443749	101.5007 ng/ml
Lamotrigine	4.254	86641	2890.73	78.5	26649.70	443749	102.2048 ng/ml
Lorazepam	5.728	666104	∞	58.2	∞	112373	97.3297 ng/ml
Meprobamate	4.875	304097	52650.79	26.1	734.36	161588	107.2810 ng/ml
Methadone	5.648	687487	9891.57	53.6	∞	334371	97.1482 ng/ml
Methamphetamine	3.188	794475	1341.09	42.2	1084.36	336522	104.9815 ng/ml
Metoprolol	4.306	152022	7748.33	96.4	4537.76	1123367	100.1949 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	889339	16219.20	49.2	62777.44	464111	104.6981 ng/ml
Mitragynine	5.214	115483	516010.37	39.4	60151.54	334371	103.1129 ng/ml
Morphine	1.220	41978	570.88	23.1	∞	4431	100.2011 ng/ml
Norbuprenorphine	4.976	1995	170.28	83.7	73.20	9680	9.8124 ng/ml
Nordiazepam	5.881	505376	1257.44	57.6	1638.35	164347	99.8418 ng/ml
Norfentanyl	4.061	157925	1681.47	37.3	732.55	689128	9.6754 ng/ml
Norhydrocodone	3.032	34316	162.23	42.8	705.81	34356	90.9981 ng/ml
Noroxycodone	2.869	343460	1886.48	50.2	604.11	111629	98.6381 ng/ml
O-desmethyl-tramadol	3.348	2259039	63237.26	6.0	2223.82	1237014	98.6190 ng/ml
Oxazepam	5.738	787144	40246.86	72.0	∞	492646	101.0874 ng/ml
Oxycodone	2.787	775930	2571.65	32.1	2193.77	376697	101.2869 ng/ml
Oxymorphone	1.376	281025	∞	48.7	∞	105352	98.7292 ng/ml
Phentermine	3.751	270644	12693.81	2.6	792.61	335428	105.2099 ng/ml
Promethazine	5.534	854771	4725.43	30.4	5890.05	391172	97.4784 ng/ml
Quetiapine	5.537	514105	1182.67	61.1	7766.21	70363	102.2824 ng/ml
Sertraline	5.770	233039	1033.26	89.0	3884.16	102642	97.5046 ng/ml
Temazepam	5.798	1428928	6199.19	29.9	966.00	776990	97.2096 ng/ml
Tramadol	4.219	2019795	3602.94	3.3	591.70	1123367	100.9188 ng/ml
Trazodone	5.113	683707	123205.89	79.0	2636.99	301771	97.8085 ng/ml
Venlafaxine	5.020	1429949	3513.98	36.6	1068.53	764946	96.1074 ng/ml
Zolpidem	4.878	2273497	83810.70	30.6	23355.46	1082714	102.2851 ng/ml

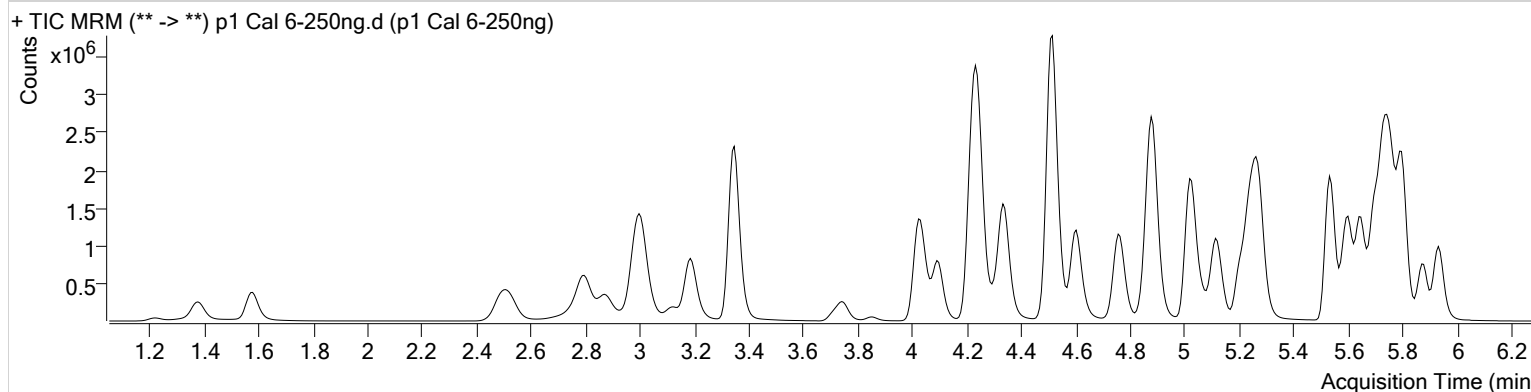
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 6-250ng.d
Type	Cal	Sample	p1 Cal 6-250ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-C12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 6:27:27 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	52066	2838.06	72.1	2557.71	47899	25.2810 ng/ml
7-aminoclonazepam	4.231	854148	∞	81.1	∞	155524	245.0405 ng/ml
a-hydroxyalprazolam	5.680	427615	616.43	62.5	1216.83	39770	257.7910 ng/ml
alpha-PVP	4.344	2496013	8436.95	50.6	2121.06	442003	247.3644 ng/ml
Alprazolam	5.756	1579114	∞	101.2	4593.98	162695	250.7174 ng/ml
Amphetamine	3.007	2925585	83880.66	53.5	58920.77	165876	242.1996 ng/ml
Benzoylcegonine	3.853	95766	7437.81	7.6	510.31	14930	251.6499 ng/ml
Buprenorphine	5.780	55592	991.28	15.6	∞	78193	26.0099 ng/ml
Bupropion	4.759	2071042	3036.75	58.2	1711.82	300122	251.4249 ng/ml
Carisoprodol	5.705	1279788	647.20	54.8	1183.66	261173	251.8134 ng/ml
Citalopram	5.202	1160833	59095.46	41.0	1181051.49	206624	253.6514 ng/ml
Clonazepam	5.593	1983288	3087.99	33.2	238941.01	100709	255.4432 ng/ml
Cocaine	4.243	2466806	232843.31	43.3	90347.38	757316	248.3962 ng/ml
Codeine	2.529	287704	2372.94	102.3	343.25	53429	252.1892 ng/ml
Cyclobenzaprine	5.617	928075	2512.63	9.9	1611.89	140308	252.7241 ng/ml
Dextromethorphan	5.252	607777	1433.94	79.1	1540.09	113184	247.5781 ng/ml
Dextrorphan	4.100	559525	1388.82	207.1	6156.20	291033	250.5566 ng/ml
Diazepam	5.934	1224377	1180.07	87.3	17690.51	227922	253.1950 ng/ml
Dihydrocodeine	2.501	772970	38852.89	67.2	1411.85	179241	270.3738 ng/ml
Diphenhydramine	5.279	2576258	1308.84	33.2	1720.94	729210	243.2385 ng/ml
Doxylamine	4.514	5444977	172689.42	96.9	455346.25	933760	259.5767 ng/ml
EDDP	5.244	1851616	3417.16	42.4	11483.61	399819	251.8803 ng/ml
Fentanyl	5.079	93753	818.15	64.2	2107.29	201657	25.4414 ng/ml
Fluoxetine	5.702	944503	3698.40	9.0	∞	159898	253.0565 ng/ml
Hydrocodone	2.985	843172	675.68	38.8	∞	232849	255.8453 ng/ml
Hydromorphone	1.581	667305	∞	78.7	1156.44	101846	249.9425 ng/ml
Ketamine	4.026	2233596	35937.89	38.0	13753.43	427174	252.8446 ng/ml
Lamotrigine	4.254	173183	1105417.92	79.5	∞	427174	213.1891 ng/ml
Lorazepam	5.728	1139412	∞	58.1	∞	100709	186.8634 ng/ml
Meprobamate	4.875	602632	149608.30	26.6	∞	142062	243.2568 ng/ml
Methadone	5.648	1735271	2099.12	54.2	20596.72	337662	242.0742 ng/ml
Methamphetamine	3.188	1898606	19453.94	42.5	2718.59	330647	256.9088 ng/ml
Metoprolol	4.306	357144	∞	96.2	∞	1055234	251.0531 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	2268377	227904.00	49.3	183159.99	442003	280.2833 ng/ml
Mitragynine	5.214	292456	18988.20	39.4	128739.13	337662	258.7353 ng/ml
Morphine	1.220	97134	∞	24.0	202.95	4090	252.1819 ng/ml
Norbuprenorphine	4.976	5166	203.73	81.6	1573.76	10086	24.4378 ng/ml
Nordiazepam	5.881	1119704	15965.00	57.1	2330.64	145437	250.3680 ng/ml
Norfentanyl	4.061	371723	4340.12	37.5	1398.84	622298	25.1881 ng/ml
Norhydrocodone	3.039	73949	499.38	45.4	218.68	27714	241.4071 ng/ml
Noroxycodone	2.869	767791	1306.41	48.6	1608.57	97443	252.9161 ng/ml
O-desmethyl-tramadol	3.348	5322920	288317.04	5.9	2789.34	1139191	252.4714 ng/ml
Oxazepam	5.738	1540242	76939.67	70.7	11759.95	381191	256.1067 ng/ml
Oxycodone	2.794	1832511	14245.30	32.0	3770.94	357320	252.8394 ng/ml
Oxymorphone	1.376	630327	∞	47.9	∞	90296	259.0695 ng/ml
Phentermine	3.751	650609	5983.28	2.5	930.79	327867	259.6564 ng/ml
Promethazine	5.534	2141892	176385.67	30.6	79597.79	388412	245.2349 ng/ml
Quetiapine	5.537	1282772	22647.75	59.1	2287.93	71026	253.1380 ng/ml
Sertraline	5.770	495810	40229.18	91.8	3377.57	86680	244.9937 ng/ml
Temazepam	5.798	3240496	4286.79	29.9	5981.19	683694	250.6378 ng/ml
Tramadol	4.219	4643086	33871.72	3.3	4323.72	1055234	248.3140 ng/ml
Trazodone	5.113	1798071	115324.16	78.8	253777.87	312300	248.8695 ng/ml
Venlafaxine	5.020	3518365	3191.55	36.6	21465.26	743736	242.4230 ng/ml
Zolpidem	4.878	5338487	118498.94	30.1	151064.68	1026230	253.9584 ng/ml

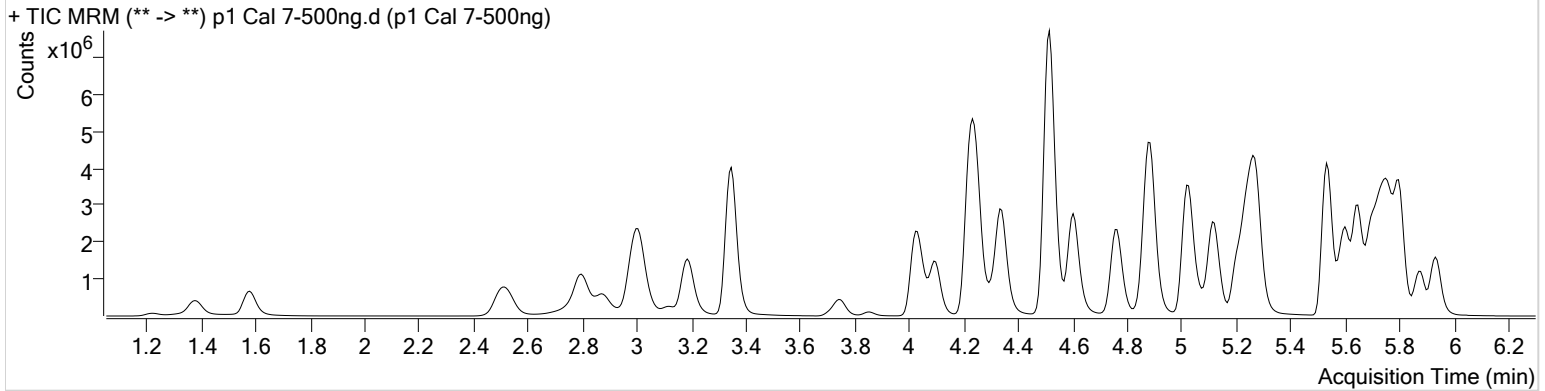
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 7-500ng.d
Type	Cal	Sample	p1 Cal 7-500ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-B12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 6:38:02 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	109700	5035.85	71.2	1437.16	50301	50.7686 ng/ml
7-aminoclonazepam	4.237	1188106	12506.86	80.9	13869.69	124867	425.0425 ng/ml
a-hydroxyalprazolam	5.680	698331	745.49	61.3	∞	33914	494.1462 ng/ml
alpha-PVP	4.344	4986768	344948.09	50.5	∞	441040	494.9265 ng/ml
Alprazolam	5.756	2574508	1697.84	103.7	10260.72	133100	499.5908 ng/ml
Amphetamine	3.007	5106148	∞	52.8	77916.57	174141	403.5148 ng/ml
Benzoylcegonine	3.853	201106	13318.82	7.8	920.13	15489	509.4712 ng/ml
Buprenorphine	5.780	127055	2925.86	16.0	∞	91303	50.9375 ng/ml
Bupropion	4.766	4363276	314604.03	58.3	2419.40	317155	501.3653 ng/ml
Carisoprodol	5.705	1890160	3576583.70	54.2	1284.61	193437	502.4936 ng/ml
Citalopram	5.202	2567789	1491.53	41.1	1563.82	228896	506.5721 ng/ml
Clonazepam	5.593	3204018	284069.36	33.7	∞	86955	478.5537 ng/ml
Cocaine	4.243	4462900	122602.84	43.8	157644.37	687276	494.9049 ng/ml
Codeine	2.536	521727	4516.68	102.0	19353.97	50163	487.4782 ng/ml
Cyclobenzaprine	5.617	2145033	147124.34	9.8	10792.45	162992	502.7793 ng/ml
Dextromethorphan	5.252	1311362	14490.37	79.3	989.38	122328	494.0090 ng/ml
Dextrorphan	4.100	1136487	7779.44	209.8	47583.03	292651	506.3735 ng/ml
Diazepam	5.934	2159929	1994.59	87.4	13656.96	207418	491.0201 ng/ml
Dihydrocodeine	2.501	1483858	273067.11	67.7	25776.59	184939	504.7889 ng/ml
Diphenhydramine	5.279	5976823	5345.59	32.8	761.69	824261	498.5532 ng/ml
Doxylamine	4.514	11474394	93334.05	96.4	157984.16	983687	519.8247 ng/ml
EDDP	5.244	3728077	2000.54	42.5	28454.49	403303	502.9426 ng/ml
Fentanyl	5.079	233262	∞	65.4	81411.54	253276	50.4305 ng/ml
Fluoxetine	5.702	2124609	888.02	8.8	∞	181503	501.5361 ng/ml
Hydrocodone	2.985	1474135	∞	42.2	∞	234906	444.0780 ng/ml
Hydromorphone	1.581	1268195	2276.63	78.5	992.39	97249	497.6910 ng/ml
Ketamine	4.026	4383011	14697.32	37.4	192528.06	432077	490.9637 ng/ml
Lamotrigine	4.261	264903	27392.63	79.6	∞	432077	322.8567 ng/ml
Lorazepam	5.728	1289090	∞	59.0	14789.64	86955	245.2228 ng/ml
Meprobamate	4.875	879128	∞	25.8	5779.02	122781	411.3799 ng/ml
Methadone	5.648	4172469	2694.64	53.1	3929.31	397175	494.3312 ng/ml
Methamphetamine	3.188	3672345	3774.00	42.1	4316.95	339711	484.6311 ng/ml
Metoprolol	4.306	690423	65370.42	96.2	32706.28	985281	520.1227 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	5273076	∞	49.1	93724.36	441040	652.8748 ng/ml
Mitragynine	5.214	670343	48721.10	39.3	32353.72	397175	504.2823 ng/ml
Morphine	1.226	188439	∞	23.8	803.05	4006	500.2143 ng/ml
Norbuprenorphine	4.976	12615	869.23	81.4	630.04	12580	47.8710 ng/ml
Nordiazepam	5.881	1929072	750.44	57.4	17780.61	126823	494.9140 ng/ml
Norfentanyl	4.061	749502	5490.47	37.2	6268.11	569790	55.4430 ng/ml
Norhydrocodone	3.039	156614	∞	42.2	250.09	25120	562.7056 ng/ml
Noroxycodone	2.876	1298436	5317.65	51.3	2463.31	87146	478.4315 ng/ml
O-desmethyl-tramadol	3.348	10346744	828598.26	5.8	33795.19	1094115	511.0693 ng/ml
Oxazepam	5.738	1999622	27896.10	70.4	8397.84	258663	490.2725 ng/ml
Oxycodone	2.794	3632787	∞	31.9	5530.66	363265	493.4477 ng/ml
Oxymorphone	1.376	1128646	∞	48.5	1575.83	88102	475.8016 ng/ml
Phentermine	3.751	1266903	9736.85	2.5	1458.69	346567	478.8600 ng/ml
Promethazine	5.534	5211855	308443.57	30.5	2431.62	469368	493.2988 ng/ml
Quetiapine	5.537	2712411	36239.52	60.0	∞	78408	485.0598 ng/ml
Sertraline	5.770	1028418	2720.72	88.6	3458.92	88601	496.7043 ng/ml
Temazepam	5.798	5757672	195925.49	29.3	1368.19	596442	510.5448 ng/ml
Tramadol	4.219	8675838	7074.02	3.3	13060.90	985281	497.8594 ng/ml
Trazodone	5.113	4291974	239461.26	78.9	∞	371991	498.9310 ng/ml
Venlafaxine	5.020	7323241	2992.33	35.5	79558.24	754919	496.5692 ng/ml
Zolpidem	4.884	10247327	231567.06	29.8	124230.45	1010111	495.6167 ng/ml

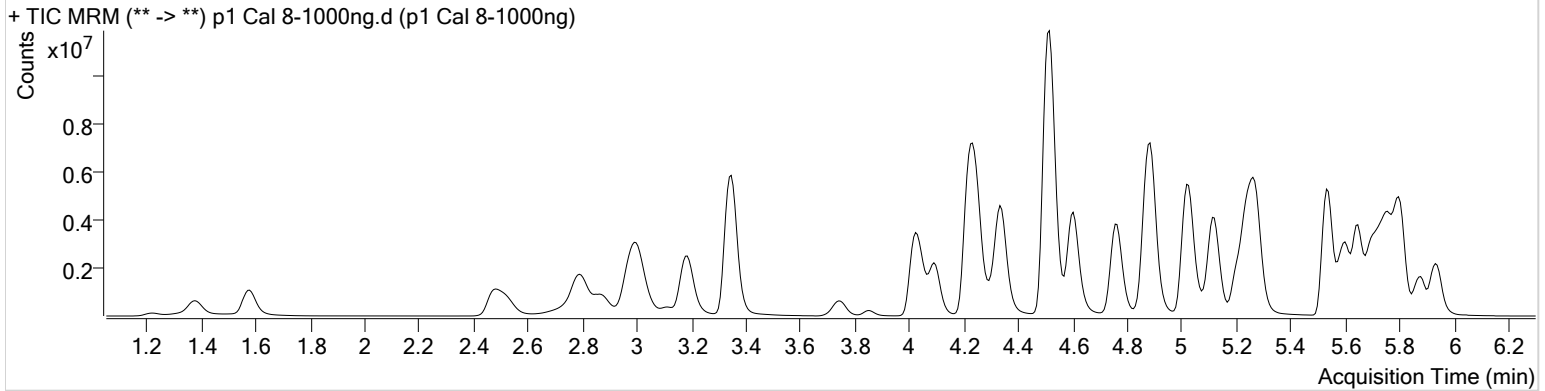
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\030520 AM 27 28 SP\QuantResults\AM 28.batch.bin
Calibration Last Update 3/10/2020 10:00:41 AM

Instrument	Falco	Data File	p1 Cal 8-1000ng.d
Type	Cal	Sample	p1 Cal 8-1000ng
Acq. Method	MDQ P1 01112020.m	Operator	Sarah Pickle
Sample Position	P1-A12	Comment	
Injection Volume	2		
Acq. Date-Time	3/5/2020 6:48:38 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	210752	23614.65	70.9	5598.83	47517	103.2962 ng/ml
7-aminoclonazepam	4.231	1331137	∞	80.5	9250.20	87009	683.8359 ng/ml
a-hydroxyalprazolam	5.673	1007087	∞	62.0	11264.03	25992	930.2612 ng/ml
alpha-PVP	4.337	8412305	729592.73	50.5	74952.30	363173	1013.5390 ng/ml
Alprazolam	5.756	3902368	∞	101.7	2166.38	100670	1001.1554 ng/ml
Amphetamine	3.001	7533166	69943.29	51.8	38984.94	149310	695.2457 ng/ml
Benzoylcegonine	3.847	429661	61956.98	7.8	6808.93	15964	1056.2458 ng/ml
Buprenorphine	5.780	148532	7854.83	15.8	1118.12	51998	104.5912 ng/ml
Bupropion	4.766	7325444	890407.13	57.5	118180.14	267537	997.9534 ng/ml
Carisoprodol	5.705	2527890	379525.92	55.0	842.93	133531	973.8555 ng/ml
Citalopram	5.202	3300222	2253.95	40.5	1868.71	150256	991.9030 ng/ml
Clonazepam	5.593	4621965	2285.05	33.0	∞	65989	910.3153 ng/ml
Cocaine	4.243	7051225	215654.12	43.1	106321.28	531147	1011.4768 ng/ml
Codeine	2.523	859237	3225.10	103.7	10259.82	40384	997.6691 ng/ml
Cyclobenzaprine	5.617	2500136	78092.22	9.9	7697.95	95220	1003.0633 ng/ml
Dextromethorphan	5.252	1460867	1266.72	79.5	902.67	66590	1010.7172 ng/ml
Dextrorphan	4.093	1749970	32404.03	213.0	293716.43	229390	994.9973 ng/ml
Diazepam	5.934	3255649	∞	87.3	∞	155696	986.1931 ng/ml
Dihydrocodeine	2.474	2539091	45583.23	67.3	41970.62	166637	960.4587 ng/ml
Diphenhydramine	5.279	7716352	1903.29	32.7	1440.03	522351	1015.0099 ng/ml
Doxylamine	4.514	19253725	16382.53	96.3	15901.63	885731	969.2122 ng/ml
EDDP	5.244	6746060	1716.76	41.6	1241.89	354540	1035.4577 ng/ml
Fentanyl	5.079	287696	78249.04	65.8	2398.34	153148	102.8984 ng/ml
Fluoxetine	5.702	2234713	244102.78	8.9	16285.70	96130	996.0787 ng/ml
Hydrocodone	2.985	2614237	932.17	41.3	∞	201364	919.7284 ng/ml
Hydromorphone	1.581	2177372	1804.54	78.5	736.49	83556	994.7508 ng/ml
Ketamine	4.026	7389385	6935.03	36.9	7233.83	376017	951.5598 ng/ml
Lamotrigine	4.261	338232	∞	78.4	41138.42	376017	474.1080 ng/ml
Lorazepam	5.728	1231988	∞	58.2	6018.70	65989	309.1371 ng/ml
Meprobamate	4.868	1051569	2410.28	26.2	34867.13	96566	626.2553 ng/ml
Methadone	5.648	5357744	4697.57	53.4	99598.04	247397	1018.5176 ng/ml
Methamphetamine	3.188	6373100	2193.46	41.8	20107.89	332073	861.2385 ng/ml
Metoprolol	4.306	1056605	248951.43	96.2	36123.31	816460	960.8327 ng/ml

AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	8356246	7468.38	48.8	232471.39	363173	1256.3758 ng/ml
Mitragynine	5.214	785803	259115.03	39.3	224428.48	247397	949.1126 ng/ml
Morphine	1.220	324555	∞	24.2	∞	3613	955.7714 ng/ml
Norbuprenorphine	4.976	16136	469.44	84.1	4099.01	8616	89.4366 ng/ml
Nordiazepam	5.881	2827743	9145.15	57.0	29697.55	95611	962.5504 ng/ml
Norfentanyl	4.061	1314312	40908.74	37.5	4097.43	429831	128.8552 ng/ml
Norhydrocodone	3.032	301920	833.73	41.5	532.58	23064	1180.3891 ng/ml
Noroxycodone	2.869	2060366	∞	48.5	2873.16	63210	1046.9008 ng/ml
O-desmethyl-tramadol	3.348	17162912	∞	5.8	66325.85	912844	1016.1850 ng/ml
Oxazepam	5.731	1986859	38239.57	72.4	6296.13	136052	926.4334 ng/ml
Oxycodone	2.787	6455334	∞	31.9	∞	333109	956.6335 ng/ml
Oxymorphone	1.376	1938219	1842.00	48.2	∞	71210	1011.4052 ng/ml
Phentermine	3.745	1974669	∞	2.5	3078.41	303956	851.4952 ng/ml
Promethazine	5.527	6194855	154542.77	29.5	∞	270934	1015.2462 ng/ml
Quetiapine	5.537	4393095	84437.13	59.8	1717.40	64333	957.7045 ng/ml
Sertraline	5.770	935657	29446.36	90.6	55695.36	39591	1010.8625 ng/ml
Temazepam	5.805	8784326	∞	29.2	1482.58	437551	1061.8534 ng/ml
Tramadol	4.219	13487970	∞	3.3	4786.05	816460	934.8570 ng/ml
Trazodone	5.119	7026819	225612.48	78.3	1073.51	296704	1024.3363 ng/ml
Venlafaxine	5.020	12213503	7833.84	35.3	56164.12	614665	1016.5923 ng/ml
Zolpidem	4.884	17324675	2014.36	29.8	10387.93	908052	932.4254 ng/ml