







REVIEWED
By Sarah Pickle at 9:03 am, Apr 27, 2020

Worklist: 4192

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2020-0358	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
M2020-0981	4	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
M2020-1307	8	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2020-0781	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2020-1027	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
P2020-1085	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	

**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

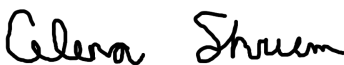
Toxicology AM #25, Toxicology AM #26/27, and AM #28

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 by LC-MS/MS

Extraction Date: 04/22/2020

Analyst: Celena Shrum

Plate lot#: 190729

Plate Expiration: 01/29/20- deviation in place

Mobile phase A: 5mM Amm Form + 0.01% FA

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Blood Lot:445283-3

Urine Blank lot: POC031319

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

LCMS-QQQ ID: 069901

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette **250µL blood (calibrated pipette) or 250µL hydrolyzed urine** in wells of analytical (standards) plate. **Pipette ID: #42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL of blood+base/urine+base** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). **(Load at 85-100 PSI- Selector to the right) Manifold ID: 067104**
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 12. Add **900uL ethyl acetate.**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 15. Remove plate containing eluate. **Urine samples add 50 ul 1% HCl in MeOH.** Place on SPE Dry and evaporate to dryness at approx. 35°C. **SPE Dry ID: 067103**
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and 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? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS:

Curve limits: Amphetamine 5-500, Lamotrigine 5-500, Lorazepam 5-100, Mirtazapine: 5-250. Cal 1 had to be reinjected due to poor ISTD responses for some compounds. M2020-1307-8 had to be reinjected as there was diphenhydramine carryover in the blank before the sample. The blank and sample were reinjected to demonstrate that there was no carryover in the sample but there were retention time shifts in the reinject (both compound and ISTD's) so the original data will be used but the reinject data for the diphenhydramine will be used to show that there was no carryover in the sample.



Idaho State Police Forensic Services

**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: 031820)

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

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

Blood External Control Solution (Lot: WS031820)

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

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



Idaho State Police Forensic Services

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

Methanol External Control Solution (Lot: 031820)

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

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

Urine External Control Solution (Lot: WS031820)

100 µL of methanol external control solution was added to 9900 µL of urine.

Approximately 100 ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	03/23/20	
Prepared by:	Tamara Salazar	
Expires:	Per AM 21 reference materials used for qualitative purposes do not have an expiration date.	

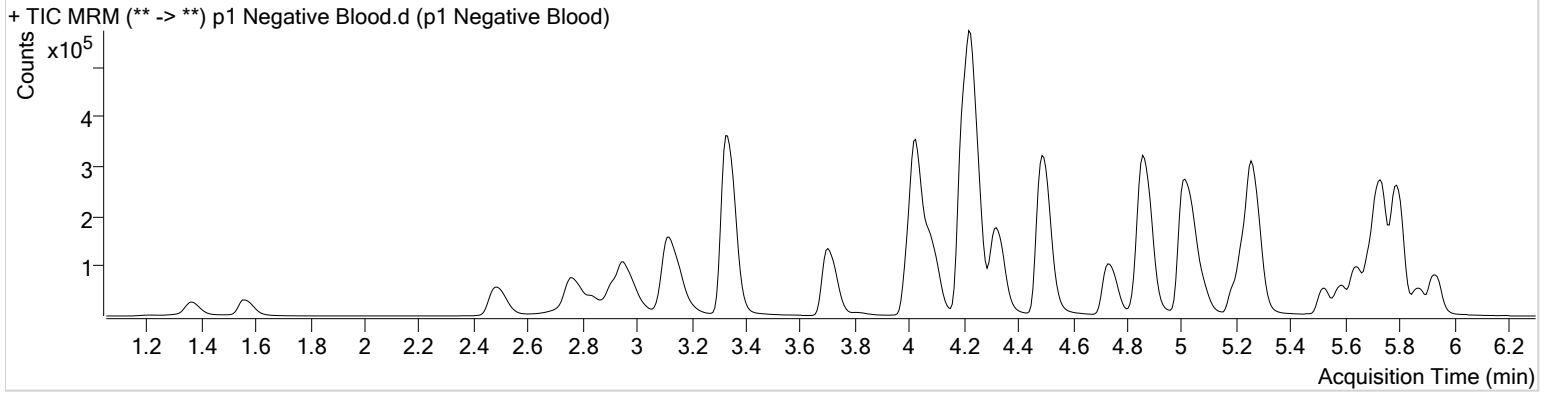
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Negative Blood.d
Type	Sample	Sample	p1 Negative Blood
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-E6	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 10:48:13 PM		
Sample Info.			

Sample Chromatogram



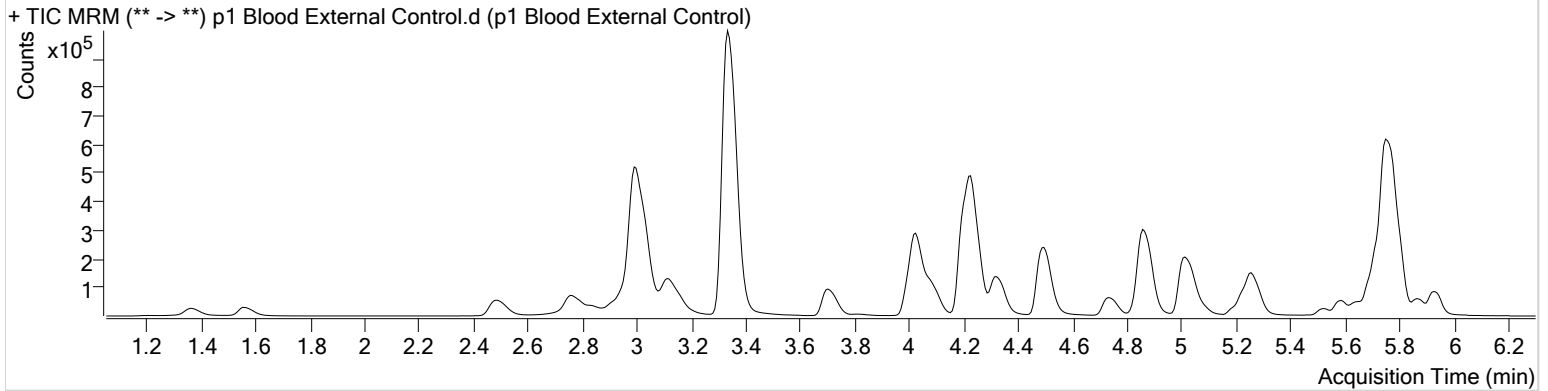
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Blood External Control.d
Type	Sample	Sample	p1 Blood External Control
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-F7	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 10:58:47 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	703810	1310.85	103.1	2065.13	193684	92.4656 ng/ml
Amphetamine	3.001	1431060	25138.05	50.5	14745.75	170495	102.7996 ng/ml
O-desmethyl-tramadol	3.334	2324156	88341.86	6.0	2341.81	1240136	100.4427 ng/ml

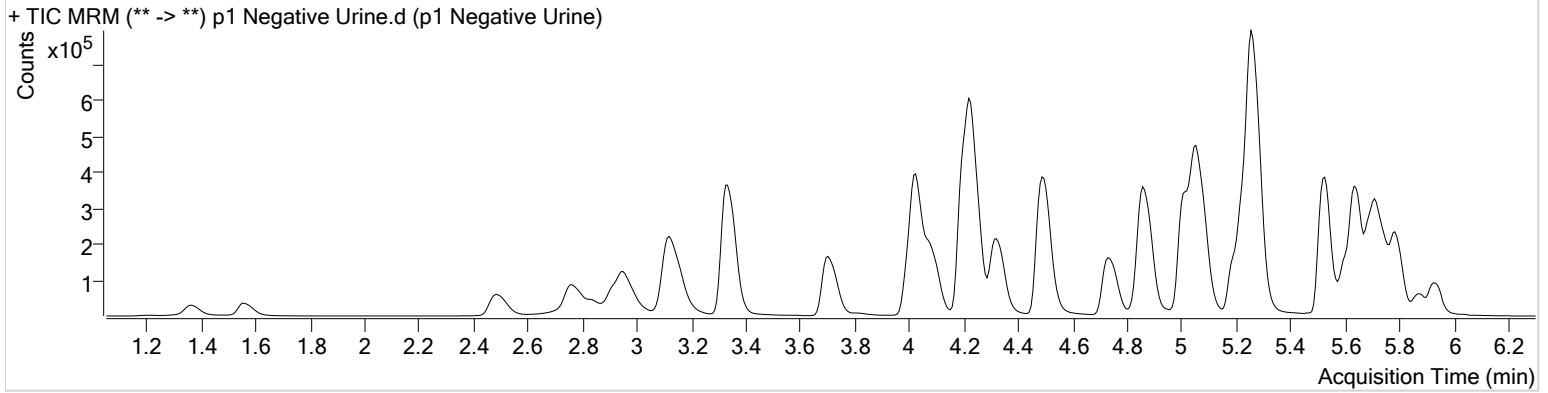
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Negative Urine.d
Type	Sample	Sample	p1 Negative Urine
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-F6	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 11:09:22 PM		
Sample Info.			

Sample Chromatogram



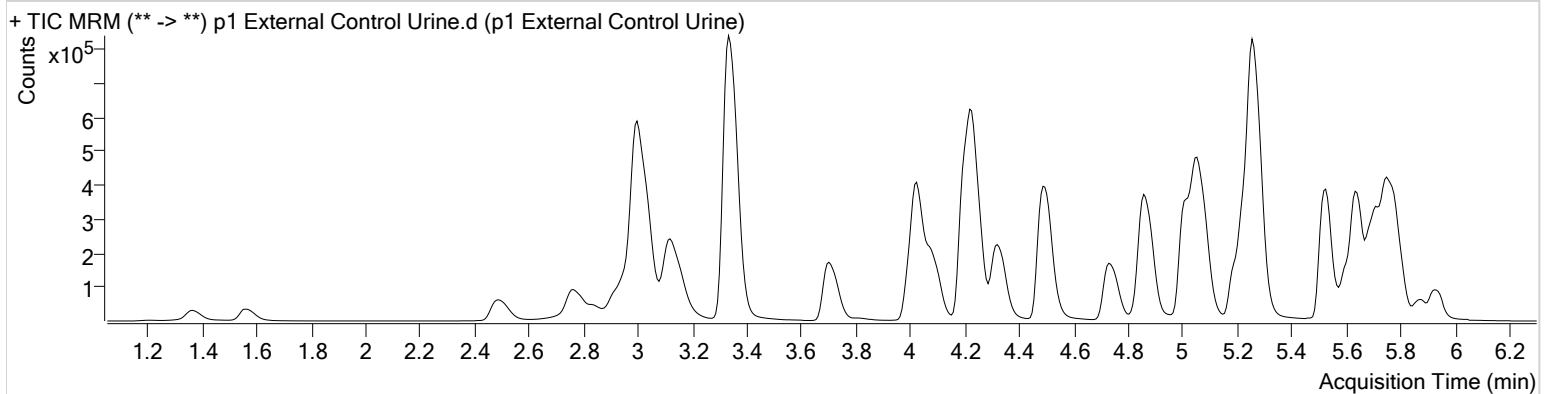
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 External Control Urine.d
Type	Sample	Sample	p1 External Control Urine
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-G6	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 11:19:58 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	334454	2512.31	102.0	1031.40	149065	57.3677 ng/ml
Amphetamine	3.001	1574757	∞	52.6	11163.38	324065	59.6566 ng/ml
O-desmethyl-tramadol	3.334	1619957	23139.96	6.0	735.16	1393271	62.3139 ng/ml

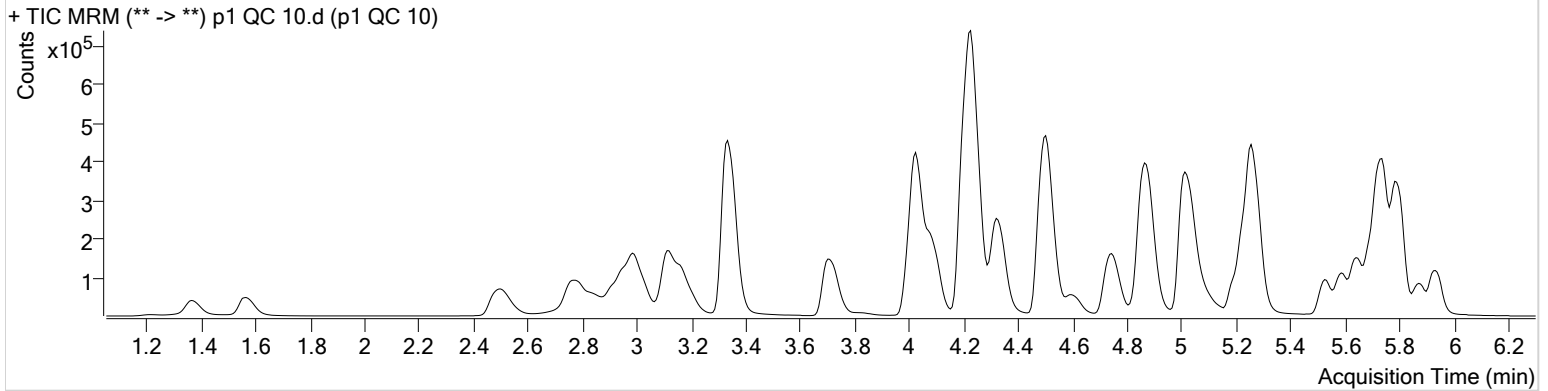
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 QC 10.d
Type	QC	Sample	p1 QC 10
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-A6	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 9:02:11 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	2299	1137.29	73.8	∞	53254	1.0079 ng/ml
7-aminoclonazepam	4.231	39579	157.11	77.1	443.83	165550	9.8160 ng/ml
a-hydroxyalprazolam	5.673	20464	359.14	61.3	∞	48463	10.0169 ng/ml
alpha-PVP	4.330	141722	1227.07	50.3	3172.63	639250	10.0132 ng/ml
Alprazolam	5.756	79066	404.09	104.2	3265.83	205823	10.4181 ng/ml
Amphetamine	3.001	248004	2120.29	51.7	1082.01	271684	11.4796 ng/ml
Benzoylcegonine	3.840	4528	140.14	8.4	1166.19	17187	9.7015 ng/ml
Buprenorphine	5.794	2119	30.01	17.5	816.57	81002	0.9735 ng/ml
Bupropion	4.752	127744	7978.12	59.1	838.21	444108	10.1275 ng/ml
Carisoprodol	5.705	68668	477.20	55.6	127.15	329795	10.1677 ng/ml
Citalopram	5.195	55334	395.23	40.3	818.62	249014	10.0197 ng/ml
Clonazepam	5.586	96887	363.86	32.4	966.90	117622	9.9329 ng/ml
Cocaine	4.237	136737	19352.94	44.9	2330.29	1083826	10.0632 ng/ml
Codeine	2.536	15048	270.32	100.8	552.06	66021	10.4433 ng/ml
Cyclobenzaprine	5.617	11397	11473.61	9.3	306.37	43170	10.5366 ng/ml
Dextromethorphan	5.238	26276	133.52	79.6	465.22	118263	10.1768 ng/ml
Dextrorphan	4.093	34971	∞	215.1	1106.72	445487	10.1345 ng/ml
Diazepam	5.941	53284	862.69	87.6	2491.60	249312	10.0063 ng/ml
Dihydrocodeine	2.514	36409	1792.52	67.4	1063.81	204547	10.0000 ng/ml
Diphenhydramine	5.272	135311	6699.23	33.4	1614.44	927274	10.2345 ng/ml
Doxylamine	4.514	303478	11026.15	97.3	21028.68	1289959	9.9117 ng/ml
EDDP	5.237	74869	4111.66	43.3	305.49	412487	9.8389 ng/ml
Fentanyl	5.072	1809	389.86	66.7	1783.22	98009	0.9966 ng/ml
Fluoxetine	5.702	7818	∞	7.0	52.78	27523	11.5956 ng/ml
Hydrocodone	2.985	47920	328.93	40.9	69.65	305205	9.9720 ng/ml
Hydromorphone	1.574	34091	624.93	80.1	686.41	132095	9.6908 ng/ml
Ketamine	4.019	120346	16346.88	37.4	141.90	532691	10.1002 ng/ml
Lamotrigine	4.241	8978	662.03	80.3	937.25	532691	10.0998 ng/ml
Lorazepam	5.728	82409	∞	55.8	381.66	117622	10.1260 ng/ml
Meprobamate	4.868	35581	801.08	26.7	284.04	194553	10.0188 ng/ml
Methadone	5.648	61853	607.63	54.5	237.50	295384	10.2772 ng/ml
Methamphetamine	3.181	180990	567.27	42.0	981.47	550502	11.1954 ng/ml
Metoprolol	4.299	21786	5140.11	99.2	∞	1426146	9.9246 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	108777	1085.18	48.9	4216.21	639250	7.3183 ng/ml
Mitragynine	5.207	8416	21266.44	40.3	167.39	295384	10.1728 ng/ml
Morphine	1.220	4704	1184.43	24.5	339.93	4792	10.0263 ng/ml
Norbuprenorphine	4.970	282	21.52	65.8	140.05	11027	1.1095 ng/ml
Nordiazepam	5.881	50691	957.83	56.5	391.70	156561	10.4371 ng/ml
Norfentanyl	4.053	21027	1633.00	38.0	∞	941920	0.9718 ng/ml
Norhydrocodone	3.026	4793	225.66	45.2	52.98	51552	10.6716 ng/ml
Noroxycodone	2.869	44608	647.36	51.0	315.97	142844	9.8460 ng/ml
O-desmethyl-tramadol	3.341	263117	1180.40	6.1	667.24	1391697	10.1307 ng/ml
Oxazepam	5.738	90962	1336.87	67.9	227.35	550611	10.0119 ng/ml
Oxycodone	2.787	88357	615.27	31.5	508.44	391596	10.3379 ng/ml
Oxymorphone	1.370	33817	369.23	49.1	1137.58	123864	9.6340 ng/ml
Phentermine	3.738	47024	1285.24	2.7	28.92	558779	10.1957 ng/ml
Promethazine	5.527	27046	844.68	31.5	120.33	122582	9.9816 ng/ml
Quetiapine	5.537	50228	14481.10	59.4	3610.14	64655	10.4584 ng/ml
Sertraline	5.770	3180	111.36	88.0	207.97	11332	11.6898 ng/ml
Temazepam	5.798	146316	538.71	28.8	271.19	768348	10.1698 ng/ml
Tramadol	4.219	291483	2784.53	3.3	133.32	1426146	10.4528 ng/ml
Trazodone	5.113	44932	1592.88	76.5	1475.83	186357	10.4677 ng/ml
Venlafaxine	5.013	207541	1263.42	36.0	275.06	1088190	10.2387 ng/ml
Zolpidem	4.884	241518	9071.18	30.4	8404.07	1107579	10.1285 ng/ml

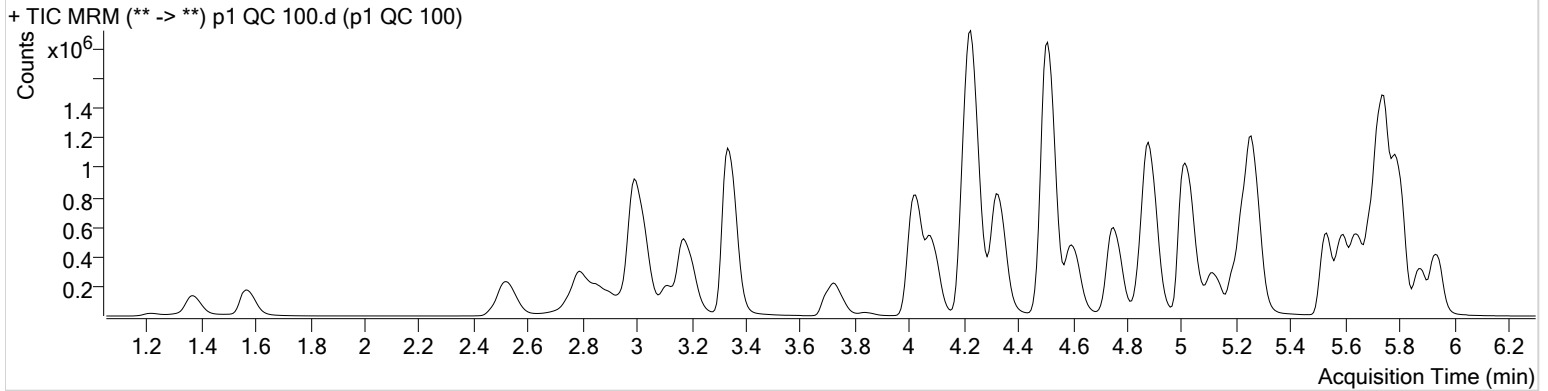
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 QC 100.d
Type	QC	Sample	p1 QC 100
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-B6	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 9:23:23 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	23755	2260.81	70.8	1026.84	54559	9.9976 ng/ml
7-aminoclonazepam	4.224	364397	3664.33	79.9	4705.46	158788	100.8677 ng/ml
a-hydroxyalprazolam	5.673	191978	1198.53	64.6	1003.54	44537	101.5128 ng/ml
alpha-PVP	4.330	1366043	97809.74	50.8	2293.41	625084	95.9841 ng/ml
Alprazolam	5.756	745782	1783.84	102.2	956.63	194438	97.5599 ng/ml
Amphetamine	3.001	2222005	33461.84	51.3	38033.99	268538	101.3455 ng/ml
Benzoylcegonine	3.840	42125	24596.33	8.0	417.97	17030	97.1328 ng/ml
Buprenorphine	5.794	23143	283.42	17.4	∞	84630	10.0914 ng/ml
Bupropion	4.752	1193189	46913.55	59.4	1919.17	422874	100.2548 ng/ml
Carisoprodol	5.705	644810	∞	54.8	8492.17	315714	102.7655 ng/ml
Citalopram	5.195	555698	1044.01	40.4	444.81	251915	100.1798 ng/ml
Clonazepam	5.586	917970	1406.56	33.9	582.11	115436	99.7037 ng/ml
Cocaine	4.237	1275458	∞	45.5	42512.04	1040219	94.6284 ng/ml
Codeine	2.536	145915	19636.94	103.0	5469.63	65175	104.2338 ng/ml
Cyclobenzaprine	5.610	221925	718.62	9.3	∞	91078	97.9318 ng/ml
Dextromethorphan	5.238	278435	790.76	78.4	24707.00	133888	96.5039 ng/ml
Dextrorphan	4.086	343032	1355.54	209.7	1582.10	444725	100.9392 ng/ml
Diazepam	5.941	532823	1123.55	88.2	1991.29	252639	99.2236 ng/ml
Dihydrocodeine	2.514	358767	1359.78	66.9	396.29	207752	101.7747 ng/ml
Diphenhydramine	5.266	1351094	804.48	33.2	552.98	950635	99.1205 ng/ml
Doxylamine	4.508	3004286	267474.68	96.4	121976.87	1292506	98.4088 ng/ml
EDDP	5.237	782009	1556.99	42.4	18381.89	440214	98.1383 ng/ml
Fentanyl	5.072	27326	2114.85	63.8	1323.18	155917	9.5775 ng/ml
Fluoxetine	5.702	219239	5430.47	8.7	825.54	93309	103.0248 ng/ml
Hydrocodone	2.978	445584	515.93	41.2	292.80	302051	100.6717 ng/ml
Hydromorphone	1.574	328638	1242.35	78.6	1194.37	129086	97.6189 ng/ml
Ketamine	4.019	1153303	2293.16	37.8	1154.77	527662	101.5565 ng/ml
Lamotrigine	4.241	83390	3984.50	81.0	3773.67	527662	107.5150 ng/ml
Lorazepam	5.728	699415	∞	56.6	2316.07	115436	95.7642 ng/ml
Meprobamate	4.868	330836	14993.34	26.4	3512.86	187096	105.0616 ng/ml
Methadone	5.641	663587	14518.59	55.9	767.30	336858	94.9023 ng/ml
Methamphetamine	3.175	1413642	7664.33	42.5	3900.15	554277	106.0125 ng/ml
Metoprolol	4.292	208862	221207.96	97.4	4956.45	1429011	101.5968 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	1075514	∞	49.3	25847.52	625084	106.4477 ng/ml
Mitragynine	5.207	100042	20714.81	37.6	∞	336858	111.4387 ng/ml
Morphine	1.220	45314	1653.91	23.9	770.68	4664	99.6339 ng/ml
Norbuprenorphine	4.963	2526	87.23	78.4	619.79	11787	10.4586 ng/ml
Nordiazepam	5.881	500646	957.69	56.9	3135.28	157874	102.6052 ng/ml
Norfentanyl	4.053	202922	12137.77	37.3	447.18	902379	9.7080 ng/ml
Norhydrocodone	3.032	43213	290.77	42.5	∞	44220	86.5190 ng/ml
Noroxycodone	2.862	431016	995.16	49.1	1995.58	137881	99.5514 ng/ml
O-desmethyl-tramadol	3.334	2593622	54746.71	6.0	4466.12	1406396	98.8375 ng/ml
Oxazepam	5.738	808140	6581.87	71.5	10075.97	503775	98.3345 ng/ml
Oxycodone	2.787	864898	3274.90	32.2	2762.44	392190	103.9515 ng/ml
Oxymorphone	1.370	318545	967.17	48.9	635.20	118888	98.4108 ng/ml
Phentermine	3.738	451293	2259.65	2.7	333.73	554015	104.7795 ng/ml
Promethazine	5.527	528239	46417.16	31.2	8848.87	245223	97.9085 ng/ml
Quetiapine	5.537	514797	∞	61.0	15483.65	68849	102.5898 ng/ml
Sertraline	5.770	106822	608.30	88.1	726.06	47004	95.1994 ng/ml
Temazepam	5.805	1433163	19771.93	29.8	802.38	764117	100.4812 ng/ml
Tramadol	4.213	2705765	17587.05	3.4	4135.50	1429011	103.2126 ng/ml
Trazodone	5.119	555731	6957.49	79.8	2592.23	243050	96.2015 ng/ml
Venlafaxine	5.013	2020094	107811.38	36.2	3710.84	1081697	95.5263 ng/ml
Zolpidem	4.884	2408157	163100.30	30.2	17162.98	1111965	102.6134 ng/ml

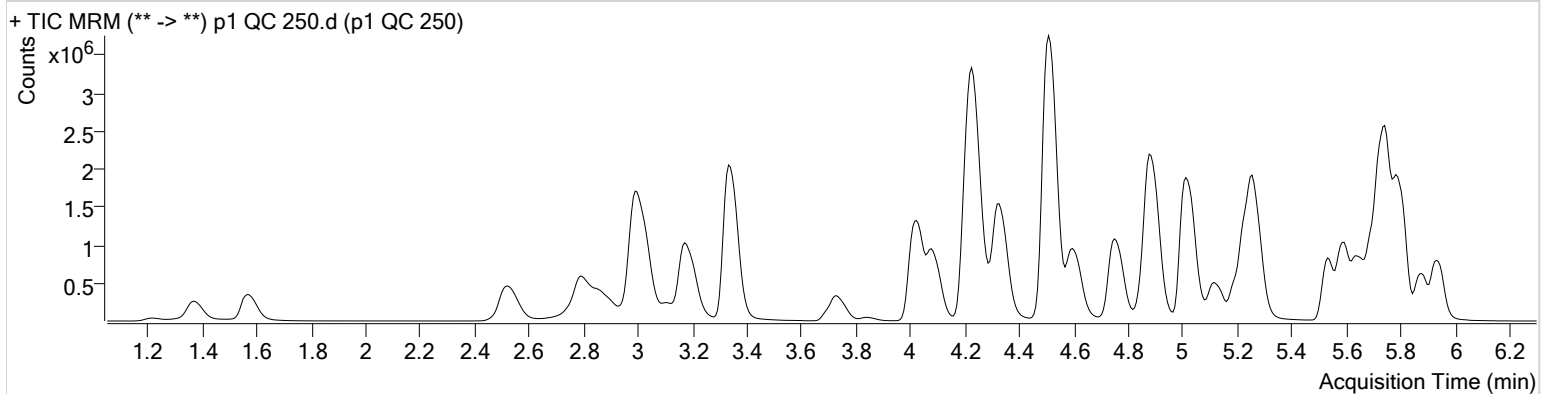
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument Falco **Data File** p1 QC 250.d
Type QC **Sample** p1 QC 250
Acq. Method MDQ P1 01112020.m **Operator** Celena Shrum
Sample Position P5-C6 **Comment**
Injection Volume 2
Acq. Date-Time 4/22/2020 9:44:35 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	56582	1369.33	69.4	1490.14	50209	25.8470 ng/ml
7-aminoclonazepam	4.224	723256	13594.64	80.7	9341.30	129625	246.3487 ng/ml
a-hydroxyalprazolam	5.673	415017	931.26	64.0	901.54	39929	244.6610 ng/ml
alpha-PVP	4.330	2975429	7682.67	51.0	1361.03	536939	242.9160 ng/ml
Alprazolam	5.756	1599250	∞	102.6	17984.48	167006	242.4937 ng/ml
Amphetamine	3.001	4494790	48331.12	49.9	30430.91	230473	238.4096 ng/ml
Benzoylcegonine	3.840	98884	15956.56	7.7	716.16	15304	254.8918 ng/ml
Buprenorphine	5.794	37170	1021.17	16.7	326.48	55430	24.7340 ng/ml
Bupropion	4.752	2412350	2114.44	59.0	20666.00	342216	250.6200 ng/ml
Carisoprodol	5.705	1366339	60284.47	54.5	5004.12	267585	257.4401 ng/ml
Citalopram	5.195	1042541	1269.89	40.2	5996.80	191142	247.8205 ng/ml
Clonazepam	5.593	2056146	5909.43	33.4	85315.68	101812	253.8867 ng/ml
Cocaine	4.237	2736657	179503.10	45.2	147733.35	879029	239.7083 ng/ml
Codeine	2.536	317223	568.50	102.6	19520.95	57466	257.2827 ng/ml
Cyclobenzaprine	5.610	262123	655141.03	9.2	19074.90	41745	252.4960 ng/ml
Dextromethorphan	5.238	472350	32861.50	79.5	100434.94	88853	246.9234 ng/ml
Dextrorphan	4.086	749381	6194.94	211.3	5569.00	381593	257.2295 ng/ml
Diazepam	5.941	1182946	21299.35	87.9	5610.71	222927	249.7343 ng/ml
Dihydrocodeine	2.514	816555	13442.03	66.7	18339.22	190550	253.3603 ng/ml
Diphenhydramine	5.272	2526183	51722.49	33.2	1572.72	701914	250.9009 ng/ml
Doxylamine	4.508	6749991	271100.18	96.3	594289.92	1134510	251.9799 ng/ml
EDDP	5.237	1751929	2581.38	42.5	508.19	384610	251.9720 ng/ml
Fentanyl	5.072	38761	5936.34	63.6	∞	84159	25.1911 ng/ml
Fluoxetine	5.702	194445	602.64	8.6	1107850.98	33108	258.9824 ng/ml
Hydrocodone	2.978	938022	503.02	42.1	∞	259437	247.9455 ng/ml
Hydromorphone	1.574	744370	1117.44	78.1	947.83	115038	248.4612 ng/ml
Ketamine	4.019	2578765	408363.92	37.8	2218.03	472563	254.2180 ng/ml
Lamotrigine	4.248	167217	5244.30	79.7	26543.77	472563	242.6247 ng/ml
Lorazepam	5.728	1298038	2214.50	56.8	4778.66	101812	202.6940 ng/ml *
Meprobamate	4.861	691662	75786.10	26.4	19627.19	157861	261.7222 ng/ml
Methadone	5.641	1187220	3585.61	55.7	21446.16	234776	243.2826 ng/ml
Methamphetamine	3.175	3002071	44292.48	42.3	2396.58	488165	259.6249 ng/ml
Metoprolol	4.299	449377	522544.40	96.6	13763.28	1245960	251.8426 ng/ml

p1 QC 250

Generated at 12:48 PM on 4/23/2020

*Outside curve range

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	2149430	122807.15	48.9	47988.36	536939	252.3854 ng/ml
Mitragynine	5.207	160985	89362.12	37.7	∞	234776	258.0444 ng/ml
Morphine	1.220	104104	2716.79	23.6	1435.49	4215	253.3485 ng/ml
Norbuprenorphine	4.963	4240	119.12	77.5	450.68	8221	25.3934 ng/ml
Nordiazepam	5.881	1108455	∞	56.5	2796.46	141009	254.4090 ng/ml
Norfentanyl	4.053	445721	28967.81	37.4	2933.69	782497	24.5768 ng/ml
Norhydrocodone	3.032	85993	159.35	43.8	310.70	32976	226.3798 ng/ml
Noroxycodone	2.869	931383	3914.87	49.1	6374.73	116919	253.8588 ng/ml
O-desmethyl-tramadol	3.334	6009790	773781.90	5.9	2935.91	1262122	255.2036 ng/ml
Oxazepam	5.731	1598155	∞	71.1	4064.17	391297	250.5596 ng/ml
Oxycodone	2.787	1974136	8246.02	32.1	5465.66	355652	262.1491 ng/ml
Oxymorphone	1.370	709260	∞	48.3	∞	104323	250.3842 ng/ml
Phentermine	3.738	968641	12659.97	2.7	1780.91	484360	258.2583 ng/ml
Promethazine	5.527	648036	8246.76	31.3	10190.78	119041	247.5097 ng/ml
Quetiapine	5.537	1046068	31528.50	60.6	1491.65	54583	263.2961 ng/ml
Sertraline	5.770	84634	662.76	90.5	1008.25	15159	233.9823 ng/ml
Temazepam	5.803	3203362	3388.65	29.5	726.65	667958	256.9804 ng/ml
Tramadol	4.213	5900012	277329.41	3.3	2902.04	1245960	259.2811 ng/ml
Trazodone	5.119	1018128	∞	78.9	4406.82	174299	245.2031 ng/ml
Venlafaxine	5.013	4539110	274541.85	35.8	48650.19	947194	244.2832 ng/ml
Zolpidem	4.890	5392757	115930.09	30.3	712.14	992799	257.7126 ng/ml

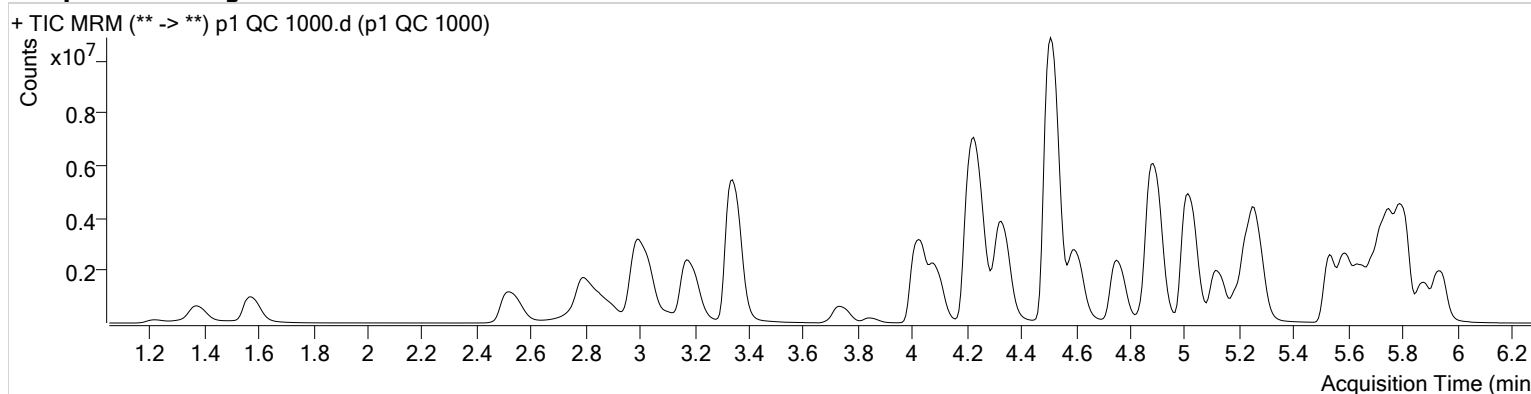
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 QC 1000.d
Type	QC	Sample	p1 QC 1000
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-D6	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 10:05:47 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	206226	3429.43	71.0	12696.42	45258	104.4552 ng/ml
7-aminoclonazepam	4.244	1523432	23586.56	78.1	8435.89	78035	863.8773 ng/ml
a-hydroxyalprazolam	5.673	1056641	4124.71	63.6	4622.83	27698	897.7534 ng/ml
alpha-PVP	4.330	8470687	194099.76	50.3	143781.49	372691	995.3738 ng/ml
Alprazolam	5.759	4240061	∞	102.4	∞	106314	1007.6671 ng/ml
Amphetamine	3.001	8811135	229724.33	49.9	65931.32	151064	712.3588 ng/ml *
Benzoylcegonine	3.840	451367	20934.77	7.7	3262.09	16199	1101.5851 ng/ml
Buprenorphine	5.787	85855	1437.80	15.8	∞	29339	107.9029 ng/ml
Bupropion	4.752	5634831	296679.69	58.8	5493.62	201834	992.8779 ng/ml
Carisoprodol	5.699	3110151	209382.55	53.8	10453.41	161988	968.9582 ng/ml
Citalopram	5.195	2572199	917.18	40.4	1400.54	115994	1007.8029 ng/ml
Clonazepam	5.586	5624637	∞	32.7	4098.48	72659	974.4154 ng/ml
Cocaine	4.237	7383913	414433.42	44.5	79186.21	573288	990.5571 ng/ml
Codeine	2.543	880427	∞	101.4	40315.24	41481	989.7813 ng/ml
Cyclobenzaprine	5.610	884970	13382.35	9.6	∞	35173	1012.0231 ng/ml
Dextromethorphan	5.238	1106474	2617.73	79.2	829.13	51370	1000.9262 ng/ml
Dextrorphan	4.086	2025159	3312.26	210.1	210076.81	255414	1039.0317 ng/ml
Diazepam	5.941	3430201	8043.32	87.8	∞	162956	990.8221 ng/ml
Dihydrocodeine	2.508	2515937	∞	67.6	60469.67	167237	890.8369 ng/ml
Diphenhydramine	5.272	6351642	114304.81	32.7	23701.86	438086	1010.5665 ng/ml
Doxylamine	4.508	21476329	∞	96.1	513648.97	914716	994.5220 ng/ml
EDDP	5.237	5481557	66141.68	42.1	659.25	293995	1032.0353 ng/ml
Fentanyl	5.072	128568	4462.30	63.7	∞	66058	106.4966 ng/ml
Fluoxetine	5.695	651024	34726.72	8.8	34727.12	27555	1044.8304 ng/ml
Hydrocodone	2.978	2670945	∞	43.0	3213.04	212723	863.1011 ng/ml
Hydromorphone	1.574	2422682	643.85	78.9	775.24	94752	982.4668 ng/ml
Ketamine	4.019	7995821	4382.13	36.8	43016.53	378874	984.4239 ng/ml
Lamotrigine	4.261	348308	∞	79.4	182439.20	378874	632.7933 ng/ml *
Lorazepam	5.721	1657035	1292.48	56.9	3380.93	72659	363.4158 ng/ml *
Meprobamate	4.854	1440099	42528.95	25.6	7346.01	107209	804.3308 ng/ml
Methadone	5.641	3312975	2495.98	54.2	2878.08	161346	987.2101 ng/ml
Methamphetamine	3.175	7661496	6755.38	42.0	3194.82	360749	903.5620 ng/ml
Metoprolol	4.292	1160573	1177664.81	95.8	7291.94	862041	942.2018 ng/ml

p1 QC 1000

Generated at 12:48 PM on 4/23/2020

*Outside curve range

AM #28 Multi-Drug Quant. Results



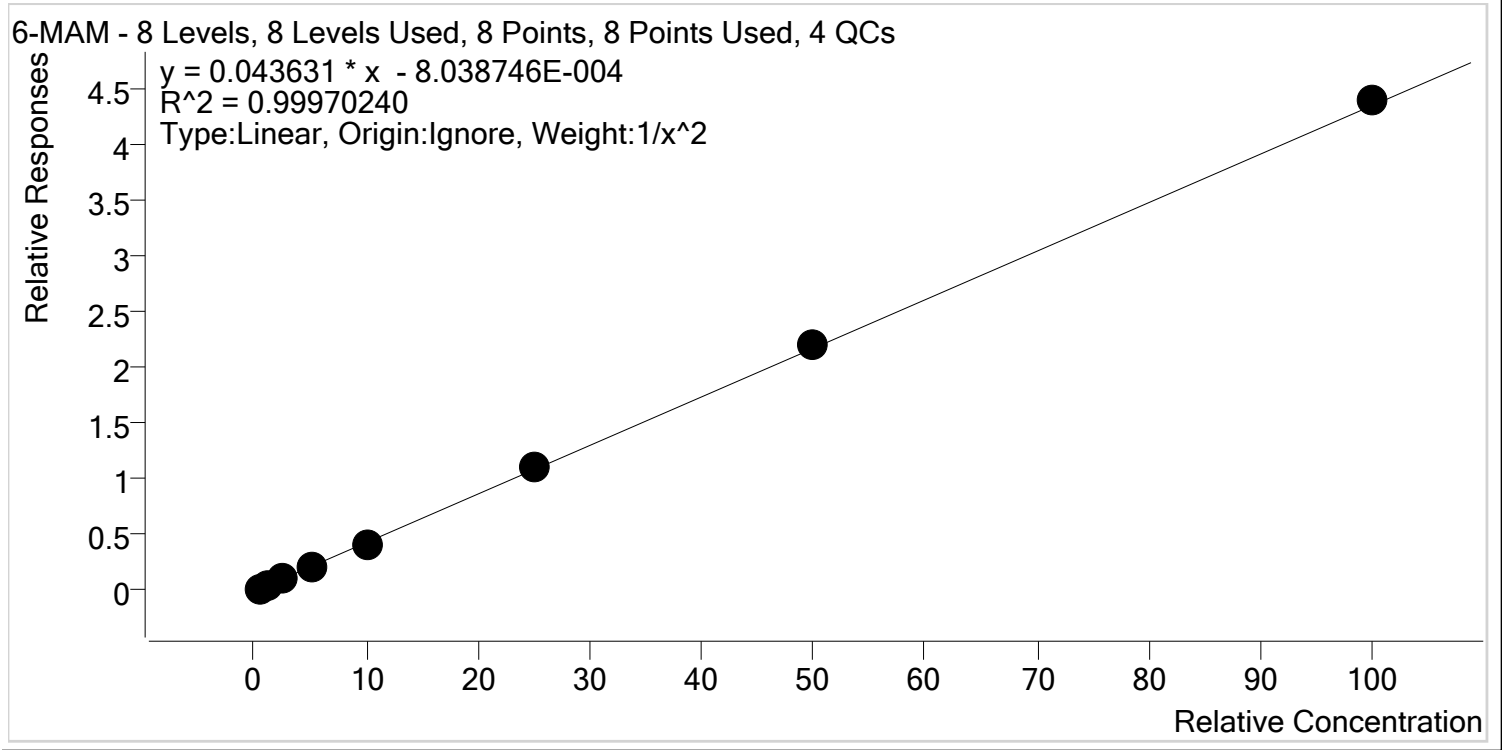
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	6339492	318080.18	48.8	1482363.53	372691	1084.0085 ng/ml*
Mitragynine	5.200	394968	132161.89	38.8	∞	161346	922.7042 ng/ml
Morphine	1.220	359771	∞	24.2	∞	3797	972.0024 ng/ml
Norbuprenorphine	4.963	9960	1064.53	80.9	220.99	5092	96.7414 ng/ml
Nordiazepam	5.881	3063673	∞	56.3	2045.77	97082	1021.4547 ng/ml
Norfentanyl	4.053	1260670	∞	37.4	10541.83	503008	108.1057 ng/ml
Norhydrocodone	3.032	248753	92.23	43.1	380.77	21416	999.0029 ng/ml
Noroxycodone	2.869	2358866	1515.31	44.7	7128.82	76307	985.4400 ng/ml
O-desmethyl-tramadol	3.341	19775613	1695646.81	5.7	4148.08	1007259	1052.2540 ng/ml
Oxazepam	5.731	2567668	∞	70.0	11671.60	163003	966.7347 ng/ml
Oxycodone	2.787	6775290	32235.85	32.0	13828.27	315951	1013.7063 ng/ml
Oxymorphone	1.370	2150553	712.76	48.8	806.96	81645	971.3237 ng/ml
Phentermine	3.738	2439788	∞	2.6	2466.40	340381	927.4629 ng/ml
Promethazine	5.527	2211920	4490.92	31.0	3637.90	99387	1012.0403 ng/ml
Quetiapine	5.537	3555122	1881.67	60.3	120430.45	46387	1053.6151 ng/ml
Sertraline	5.770	258078	1430.27	88.4	541.77	11171	968.4231 ng/ml
Temazepam	5.805	9368607	174047.22	29.2	52443.03	454084	1105.6772 ng/ml
Tramadol	4.206	16222303	4362.62	3.2	6347.66	862041	1032.6965 ng/ml
Trazodone	5.123	4238752	433257.47	79.2	206632.10	170365	1043.2469 ng/ml
Venlafaxine	5.013	13755828	559941.48	34.5	70699.40	698710	1001.9075 ng/ml
Zolpidem	4.884	18004508	325511.94	29.1	181264.13	831513	1027.9785 ng/ml

*Outside curve range



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

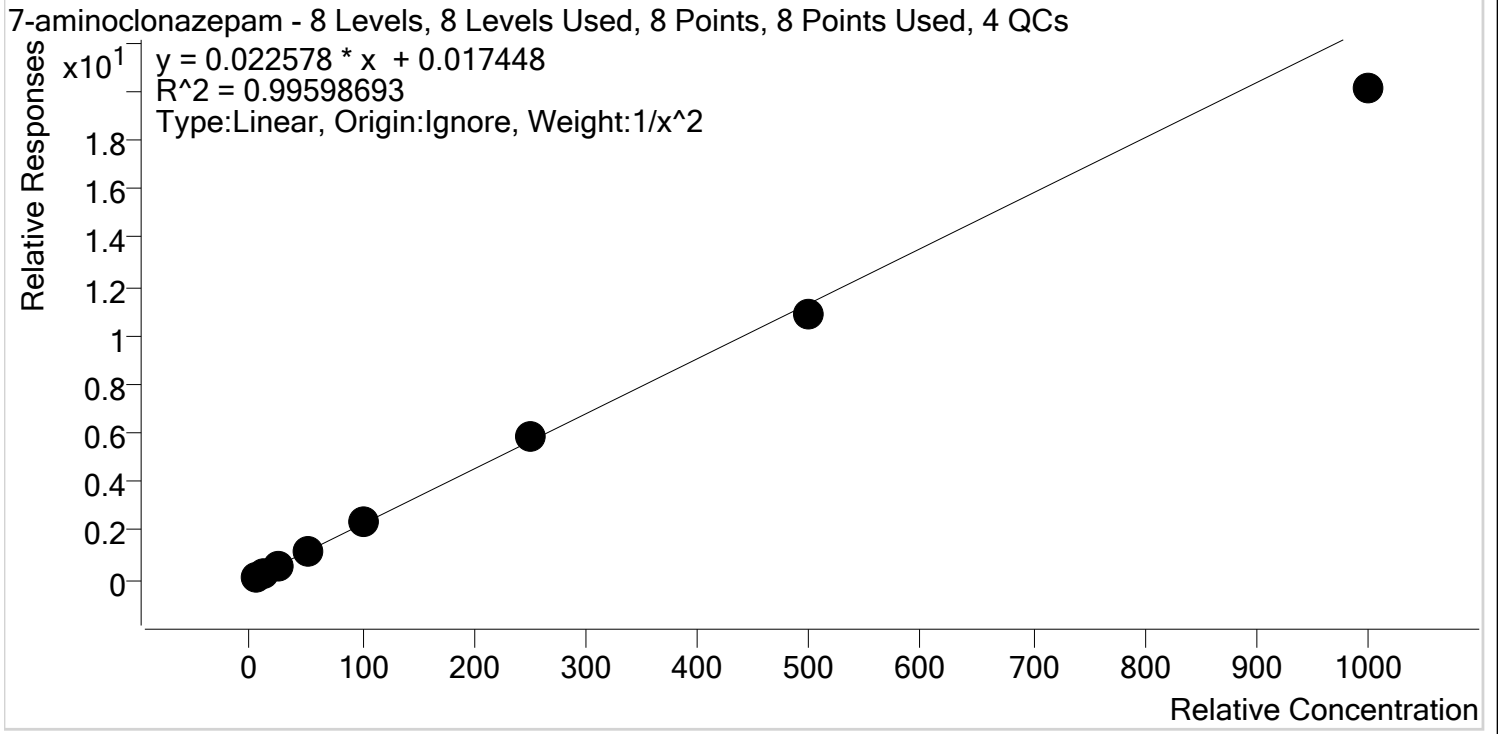


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	0.5	0.5	101.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.5
p1 Cal 4-50ng	4	✓	5.0	5.1	101.2
p1 Cal 5-100ng	5	✓	10.0	9.9	98.6
p1 Cal 6-250ng	6	✓	25.0	25.2	100.9
p1 Cal 7-500ng	7	✓	50.0	50.5	101.0
p1 Cal 8-1000ng	8	✓	100.0	101.0	101.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

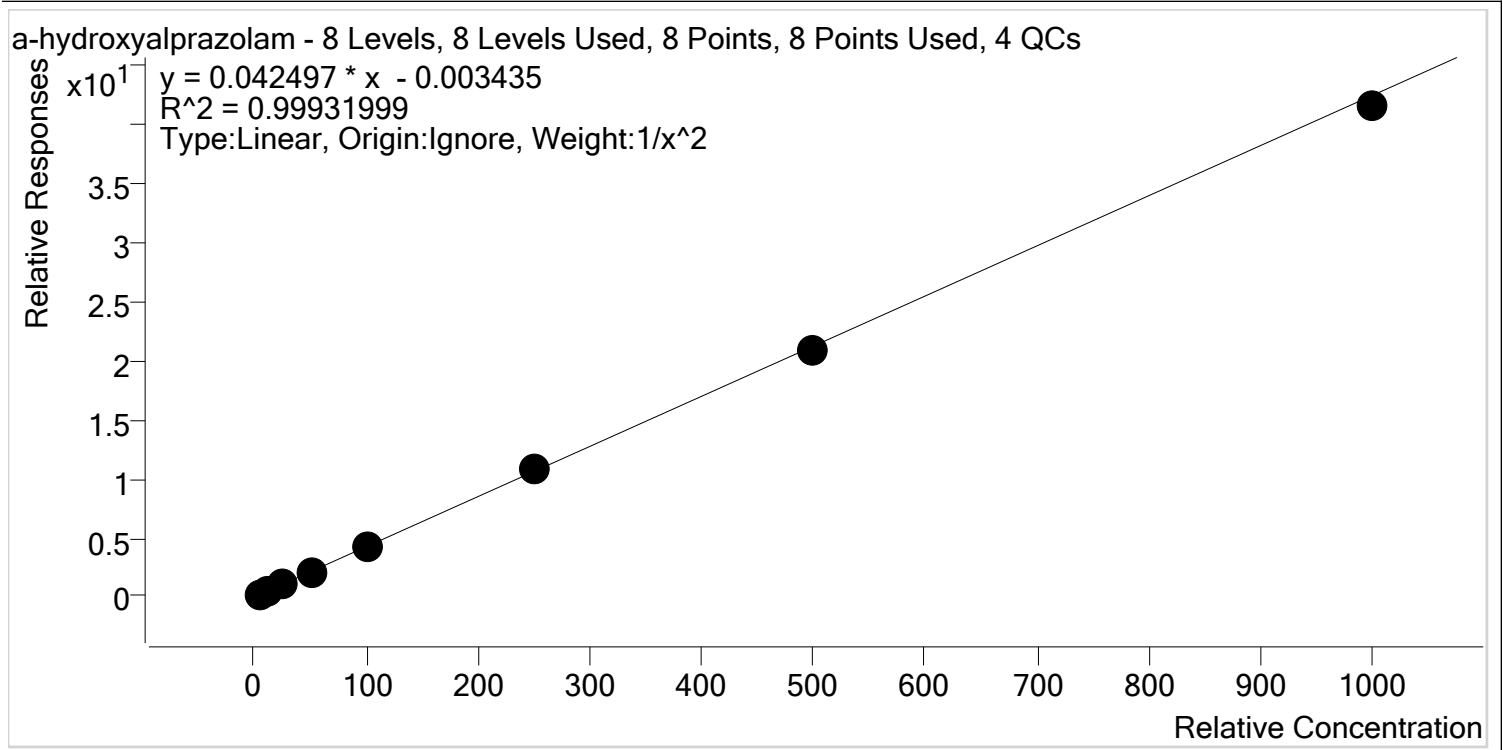


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	26.5	106.0
p1 Cal 4-50ng	4	✓	50.0	52.3	104.5
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	256.5	102.6
p1 Cal 7-500ng	7	✓	500.0	482.9	96.6
p1 Cal 8-1000ng	8	✓	1000.0	889.3	88.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



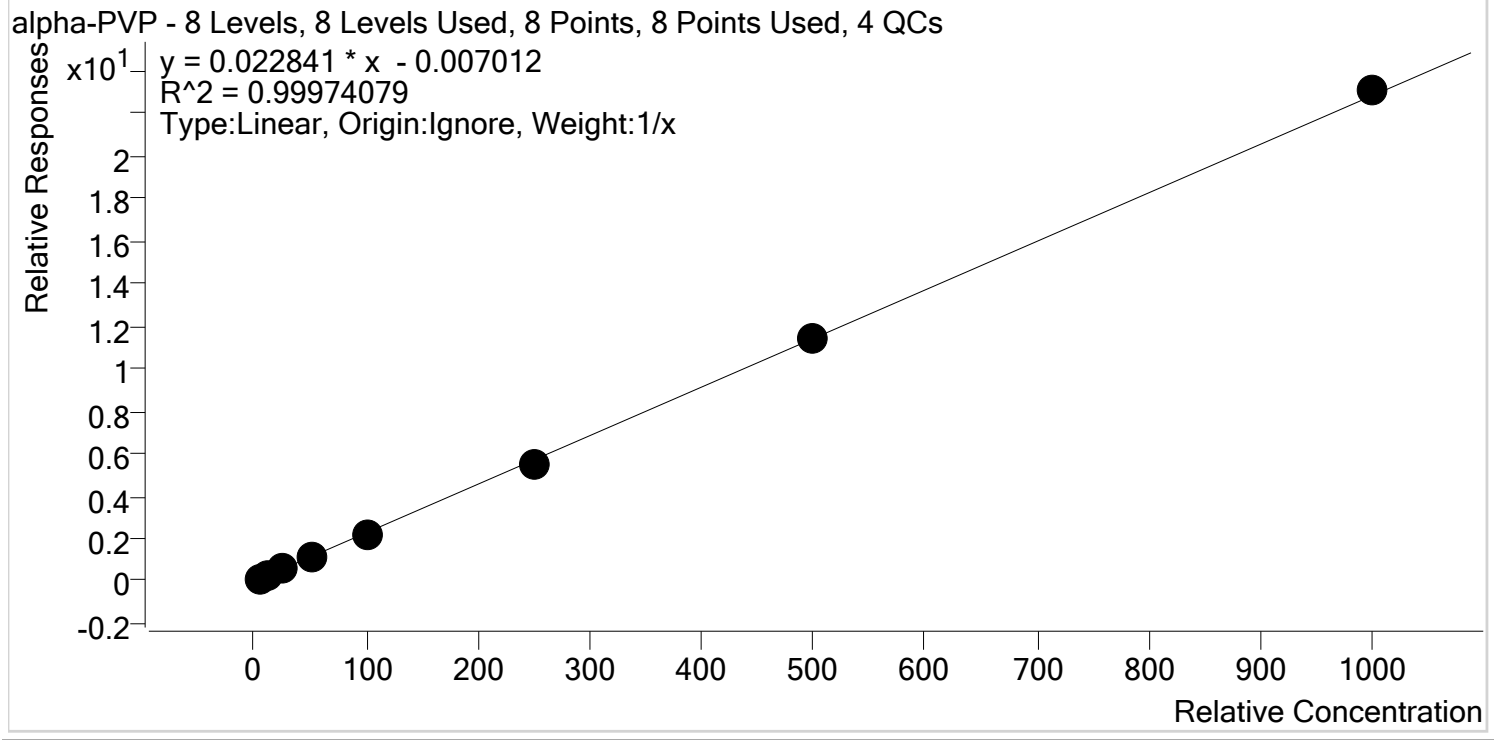
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	489.1	97.8
p1 Cal 8-1000ng	8	✓	1000.0	978.5	97.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

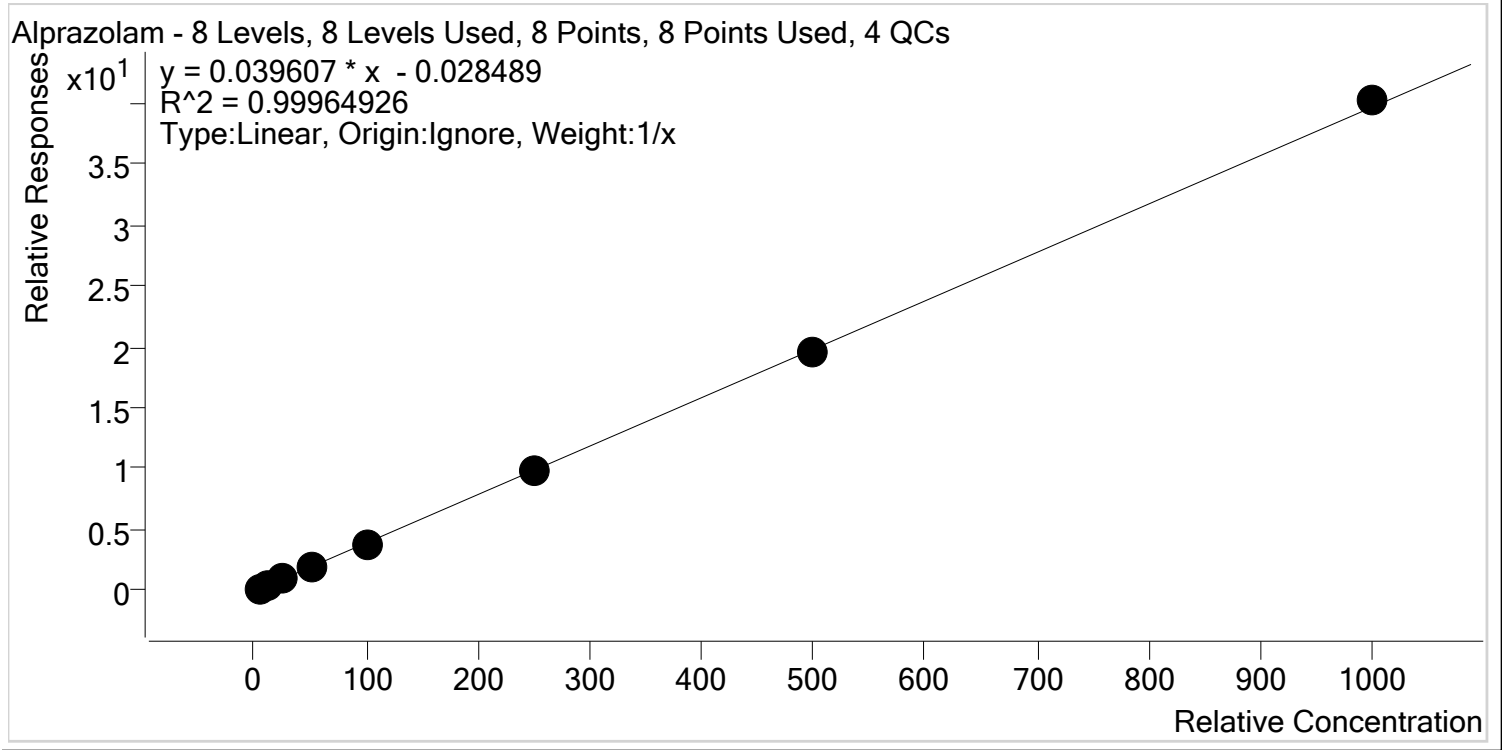


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.4	107.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng	5	✓	100.0	95.9	95.9
p1 Cal 6-250ng	6	✓	250.0	244.3	97.7
p1 Cal 7-500ng	7	✓	500.0	499.9	100.0
p1 Cal 8-1000ng	8	✓	1000.0	1010.6	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

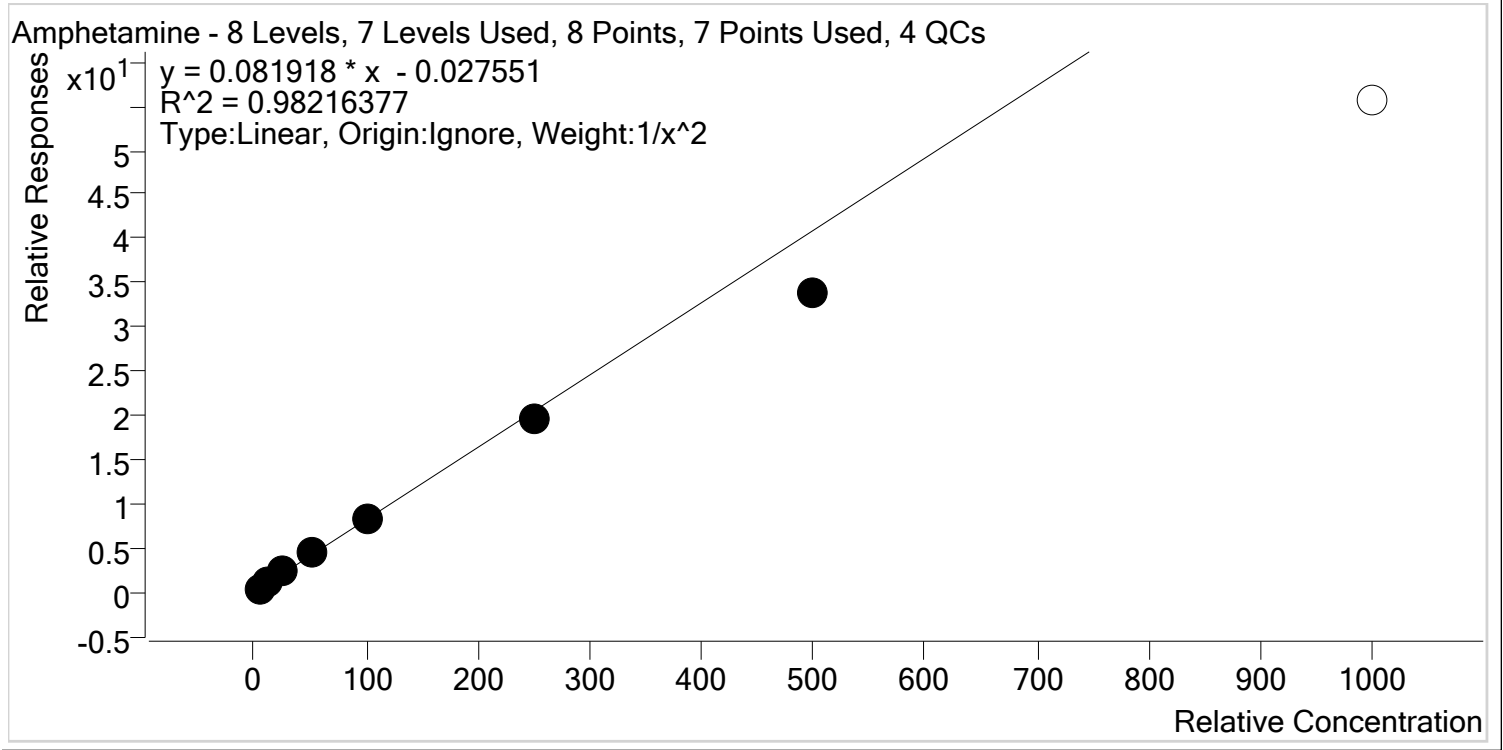


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.5	110.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.4
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	95.1	95.1
p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
p1 Cal 7-500ng	7	✓	500.0	496.8	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1013.6	101.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

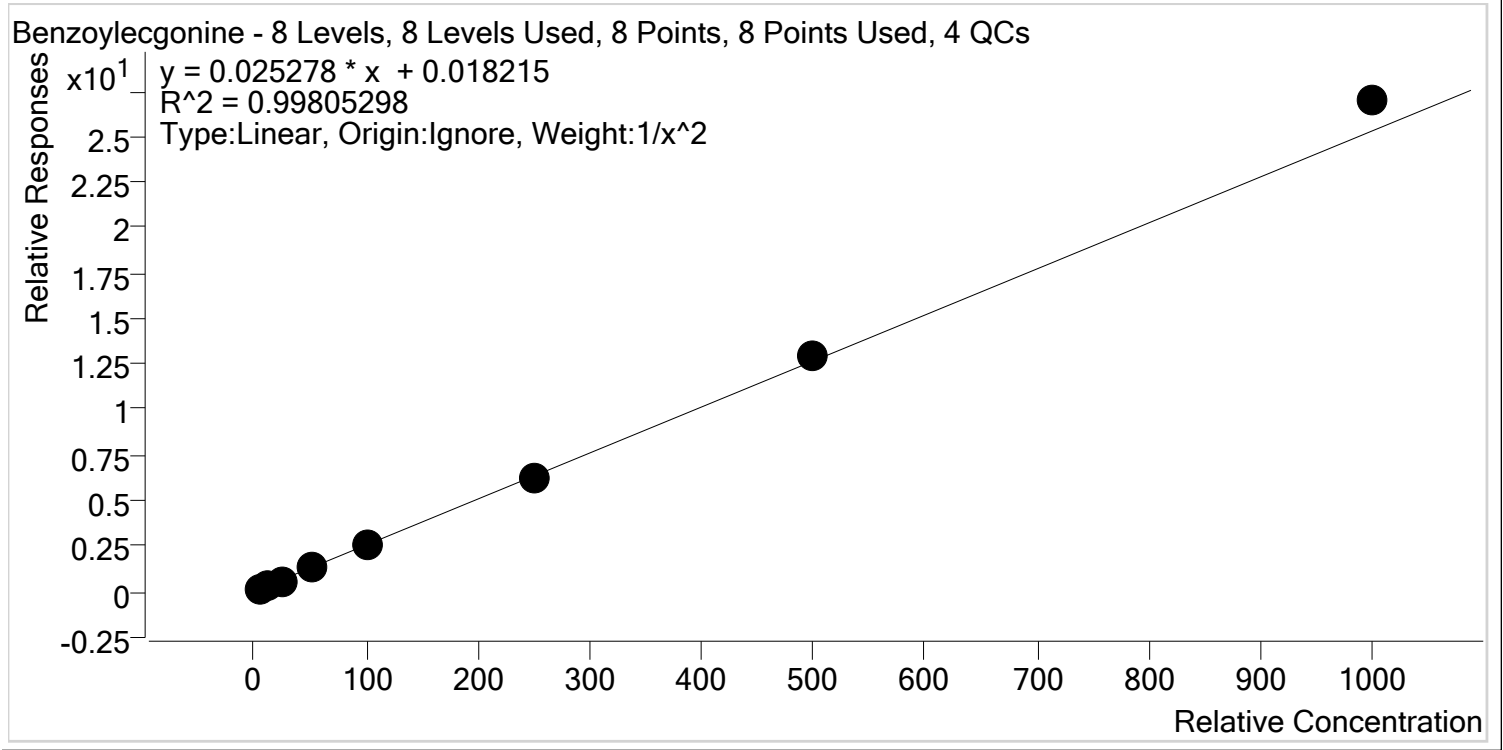


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.5	90.4
p1 Cal 2- 10ng	2	✓	10.0	11.5	114.7
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.5
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	238.1	95.2
p1 Cal 7-500ng	7	✓	500.0	411.2	82.2
p1 Cal 8-1000ng	8	✗	1000.0	679.4	67.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

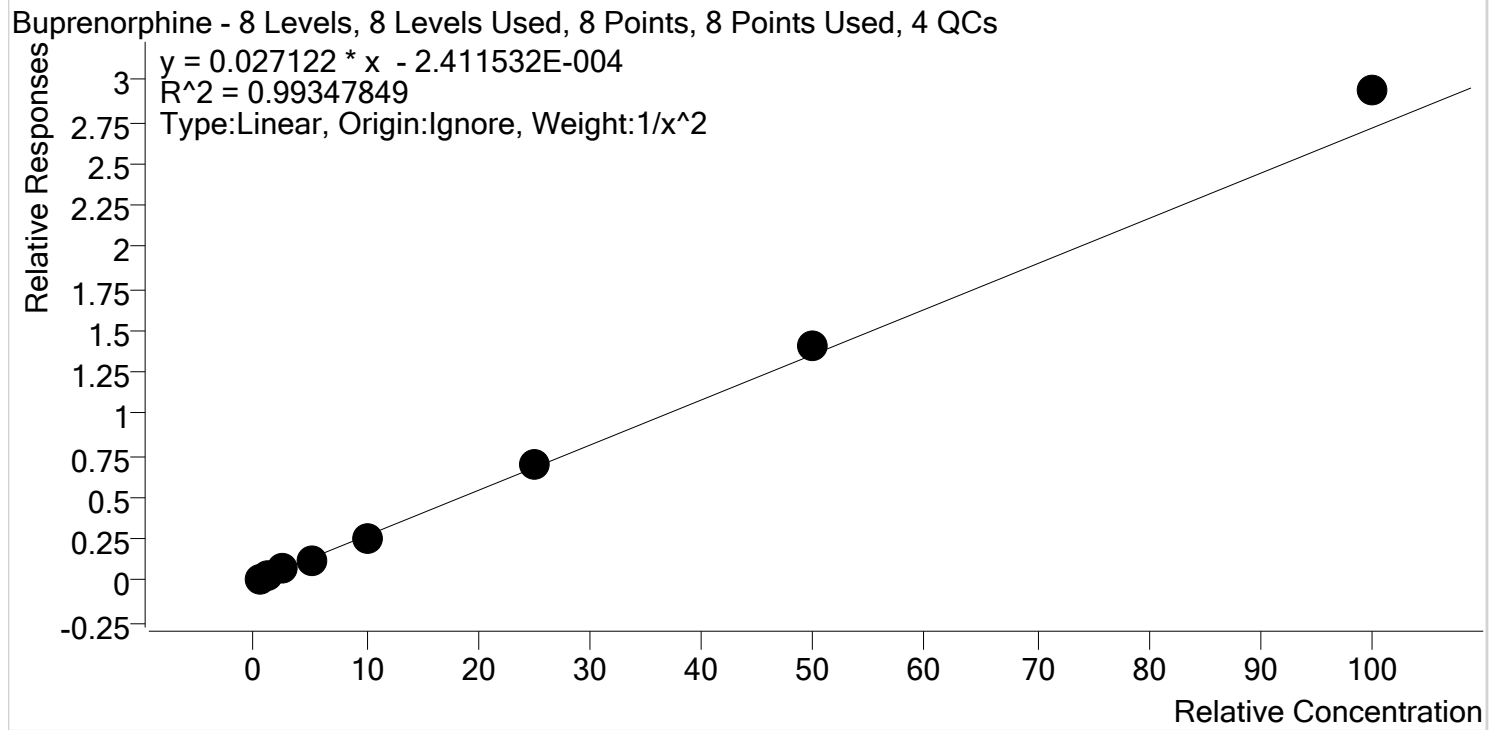


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	23.5	94.0
p1 Cal 4-50ng	4	✓	50.0	48.8	97.5
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	511.6	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1066.0	106.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

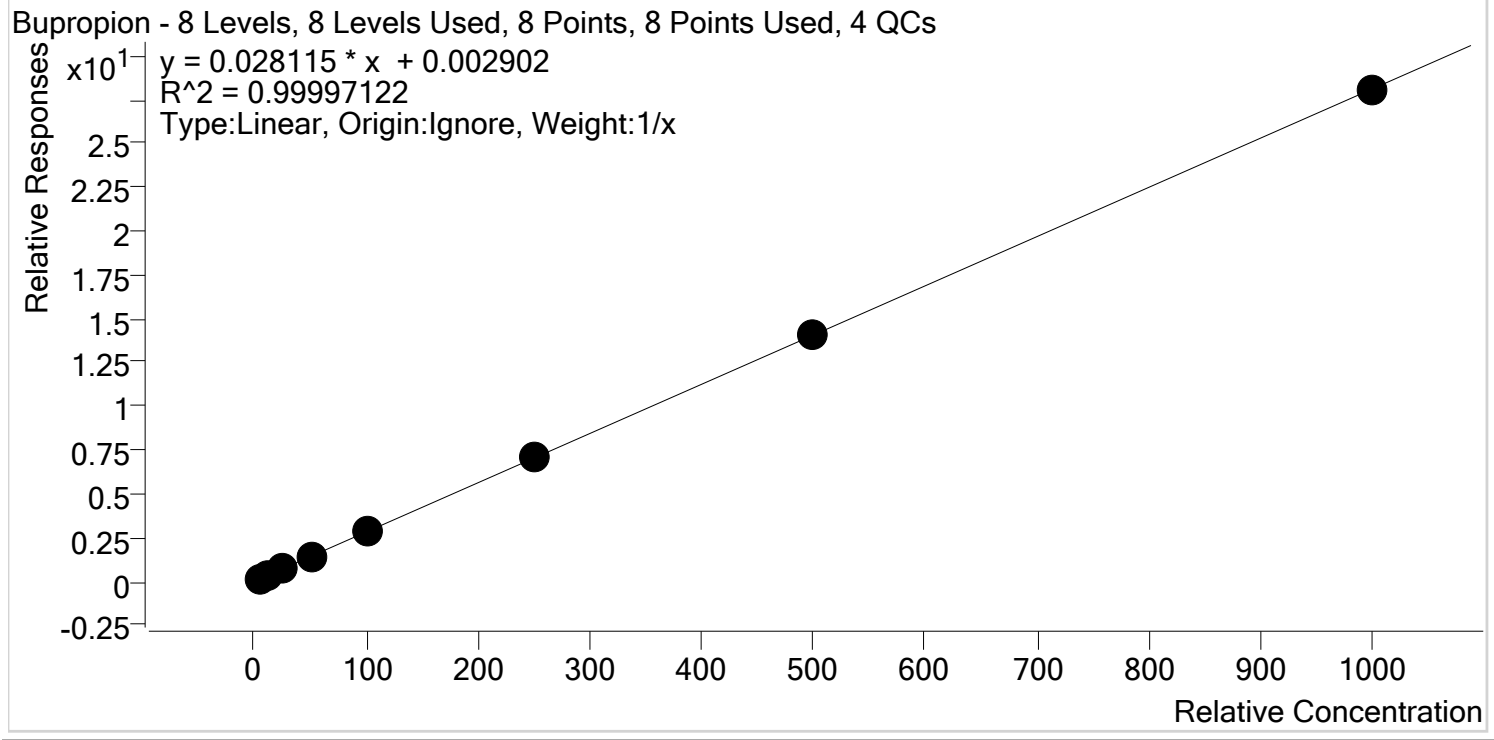


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	0.5	0.5	106.7
p1 Cal 2- 10ng	2	✓	1.0	0.9	87.9
p1 Cal 3 -25ng	3	✓	2.5	2.5	99.7
p1 Cal 4-50ng	4	✓	5.0	4.8	96.3
p1 Cal 5-100ng	5	✓	10.0	9.4	93.5
p1 Cal 6-250ng	6	✓	25.0	26.1	104.4
p1 Cal 7-500ng	7	✓	50.0	51.7	103.3
p1 Cal 8-1000ng	8	✓	100.0	108.3	108.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

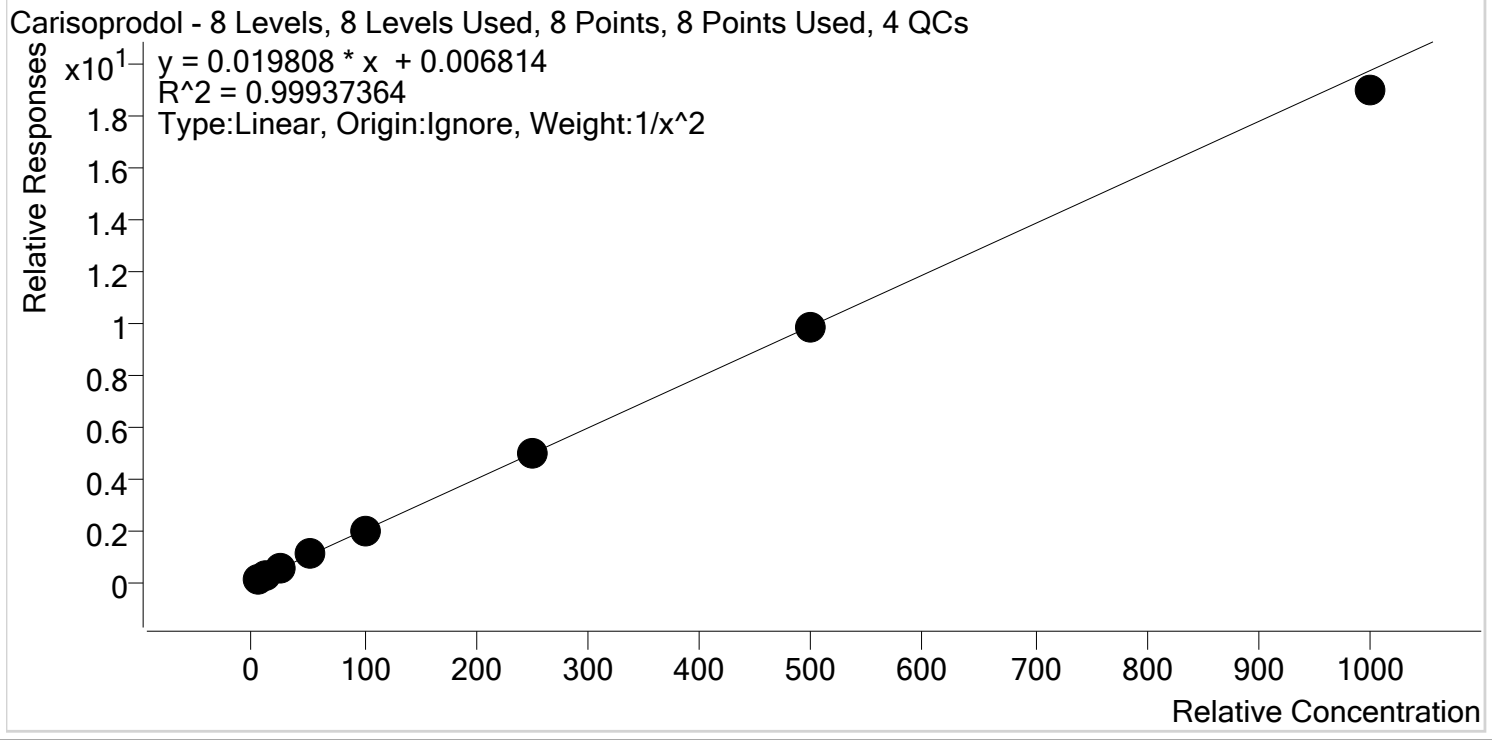


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	50.6	101.3
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	503.2	100.6
p1 Cal 8-1000ng	8	✓	1000.0	996.7	99.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

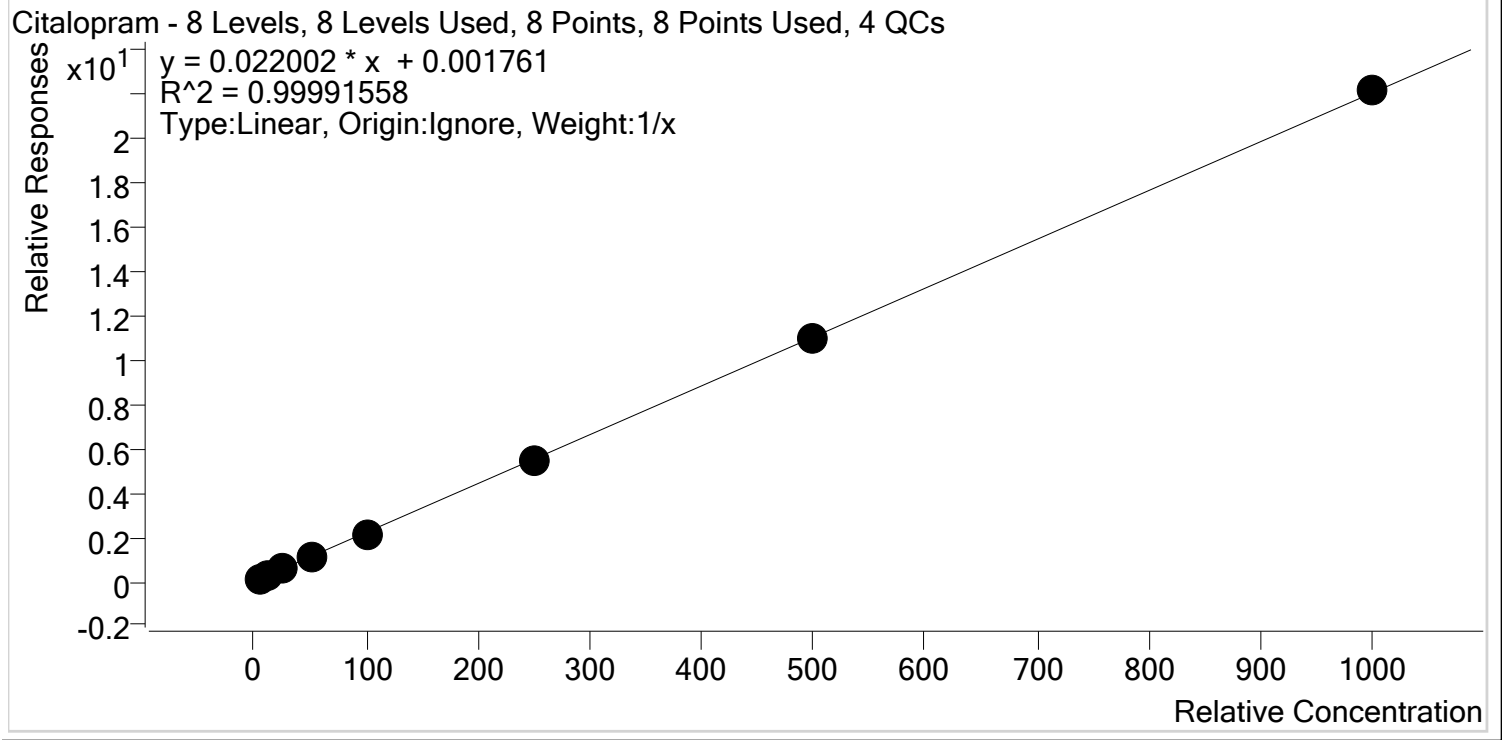


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	499.4	99.9
p1 Cal 8-1000ng	8	✓	1000.0	960.7	96.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

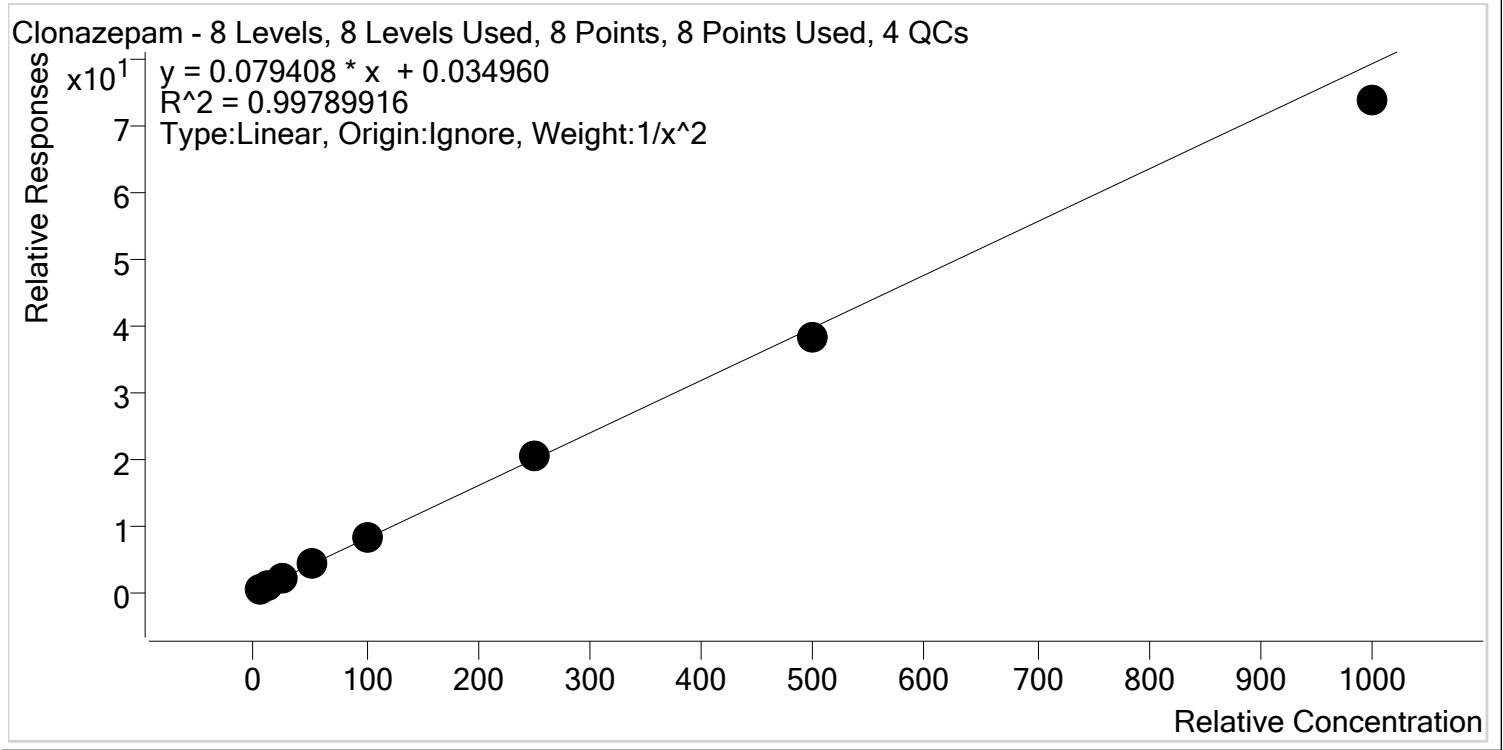


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.1	102.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	248.2	99.3
p1 Cal 7-500ng	7	✓	500.0	499.6	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1004.8	100.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

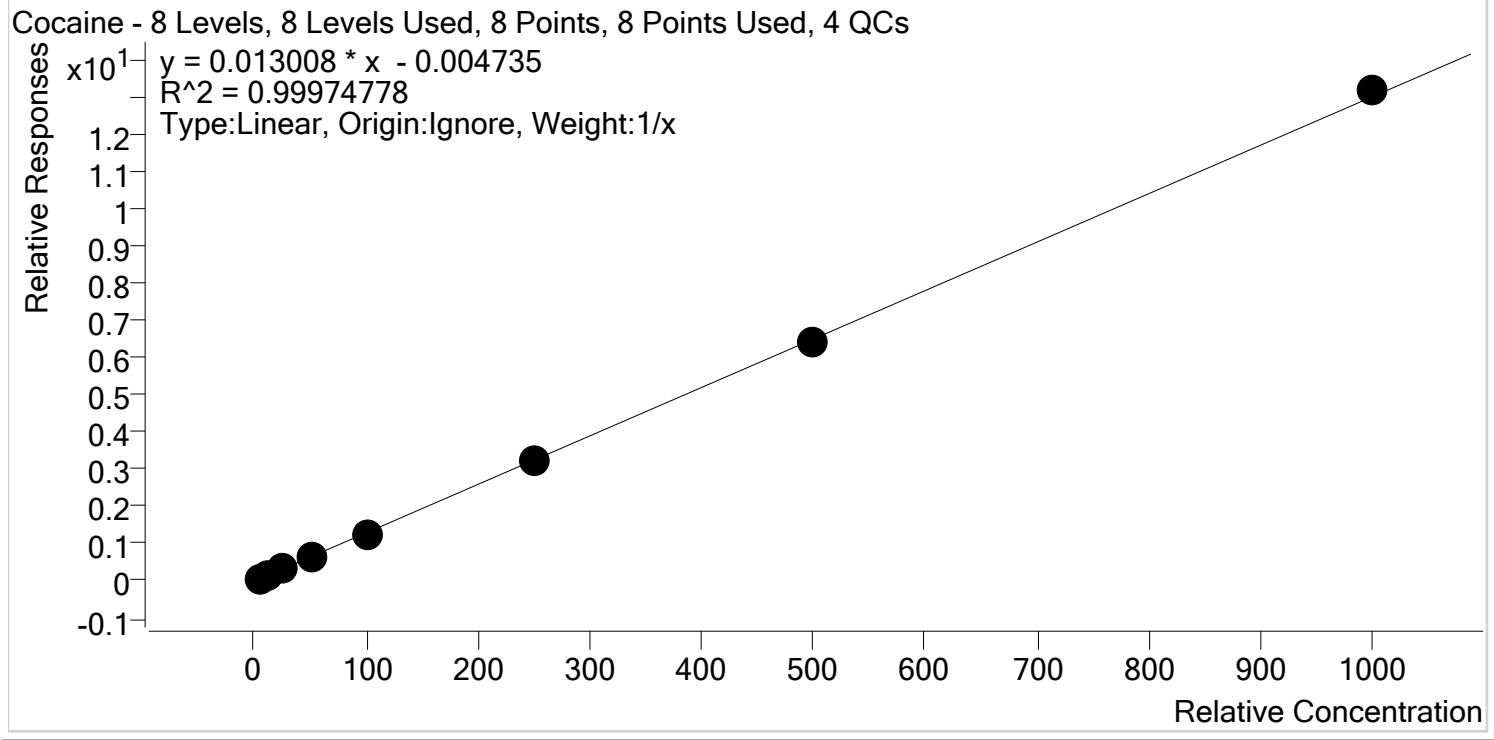


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.4
p1 Cal 4-50ng	4	✓	50.0	53.0	106.1
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	258.1	103.3
p1 Cal 7-500ng	7	✓	500.0	483.7	96.7
p1 Cal 8-1000ng	8	✓	1000.0	930.0	93.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

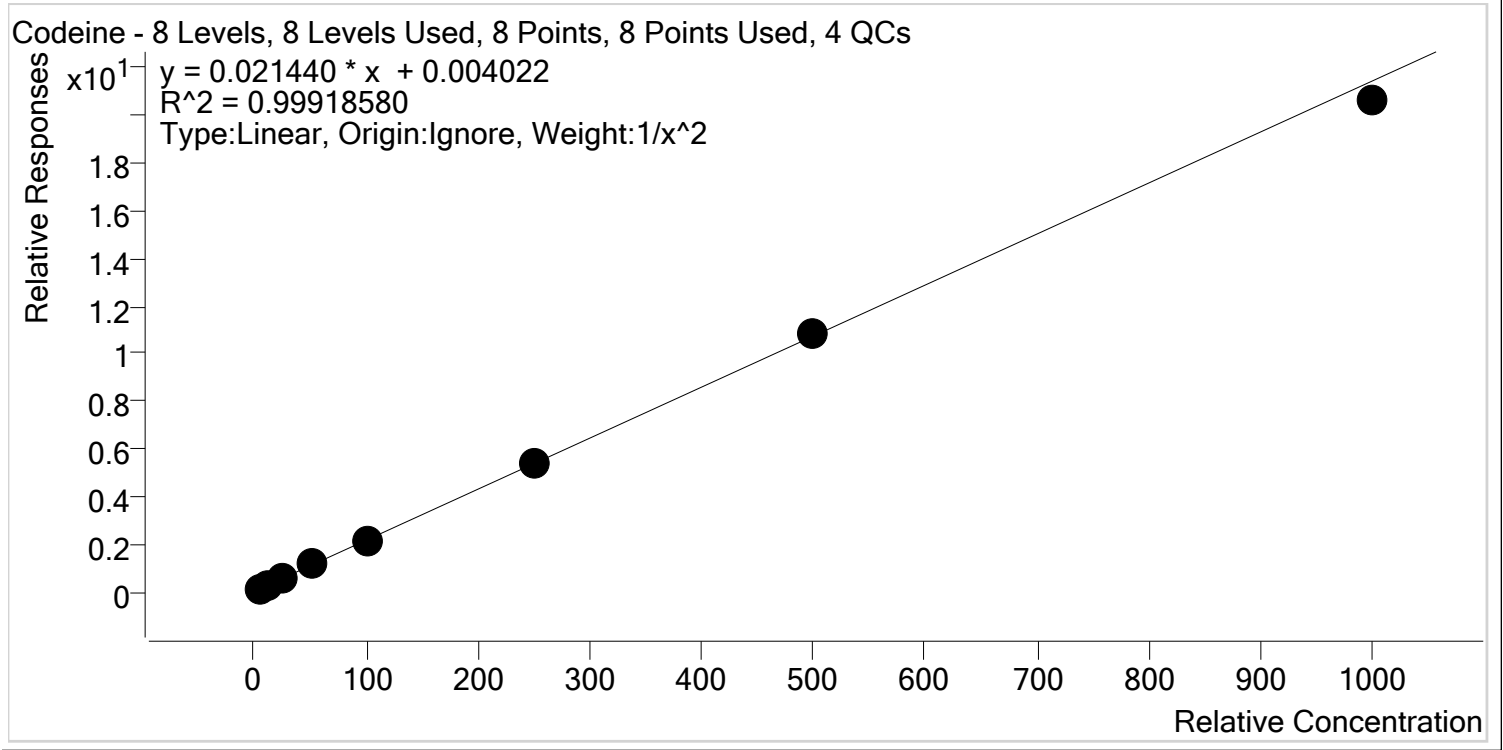


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.3	105.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	495.1	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1012.9	101.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Codeine **Internal Standard** Codeine-D6

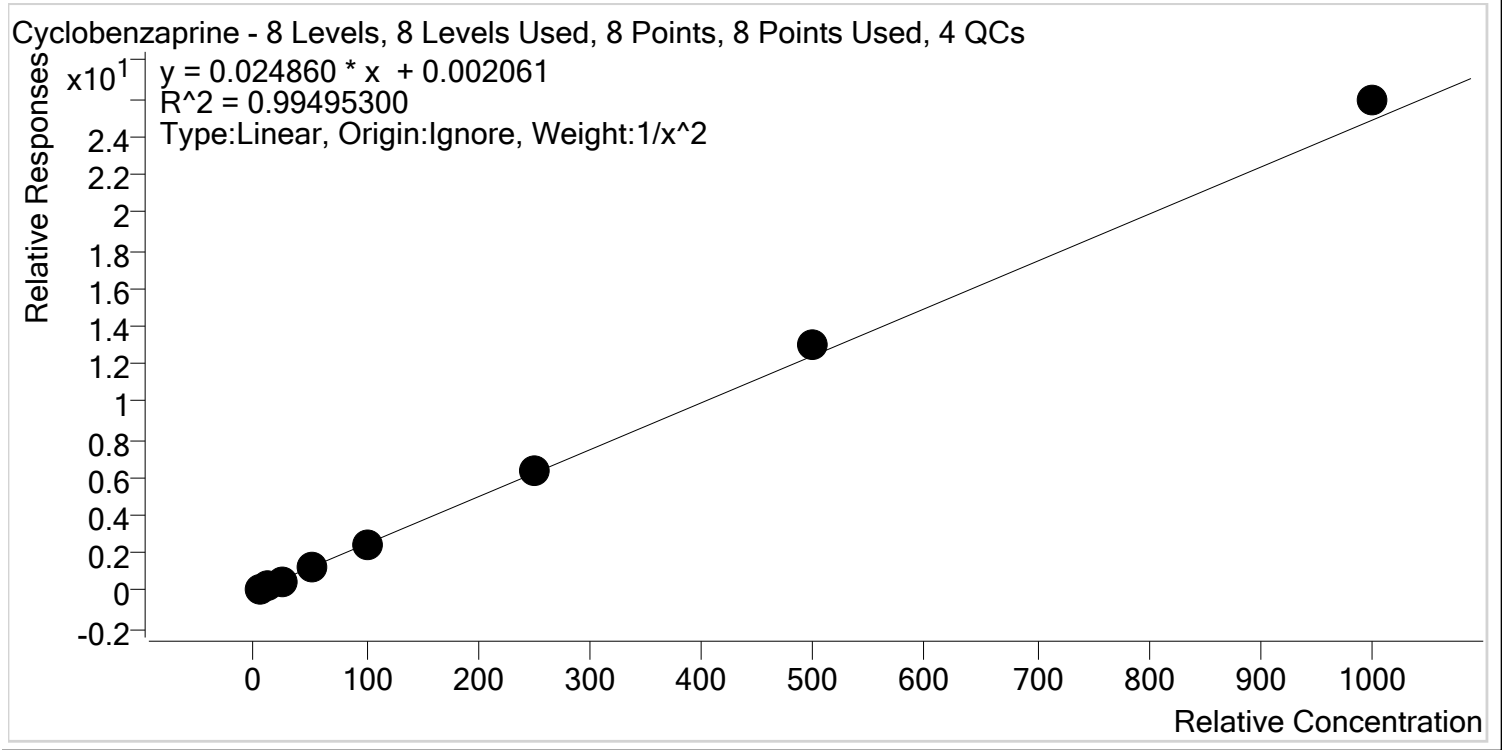


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.6
p1 Cal 4-50ng	4	✓	50.0	51.7	103.4
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	249.9	100.0
p1 Cal 7-500ng	7	✓	500.0	503.2	100.6
p1 Cal 8-1000ng	8	✓	1000.0	961.7	96.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3



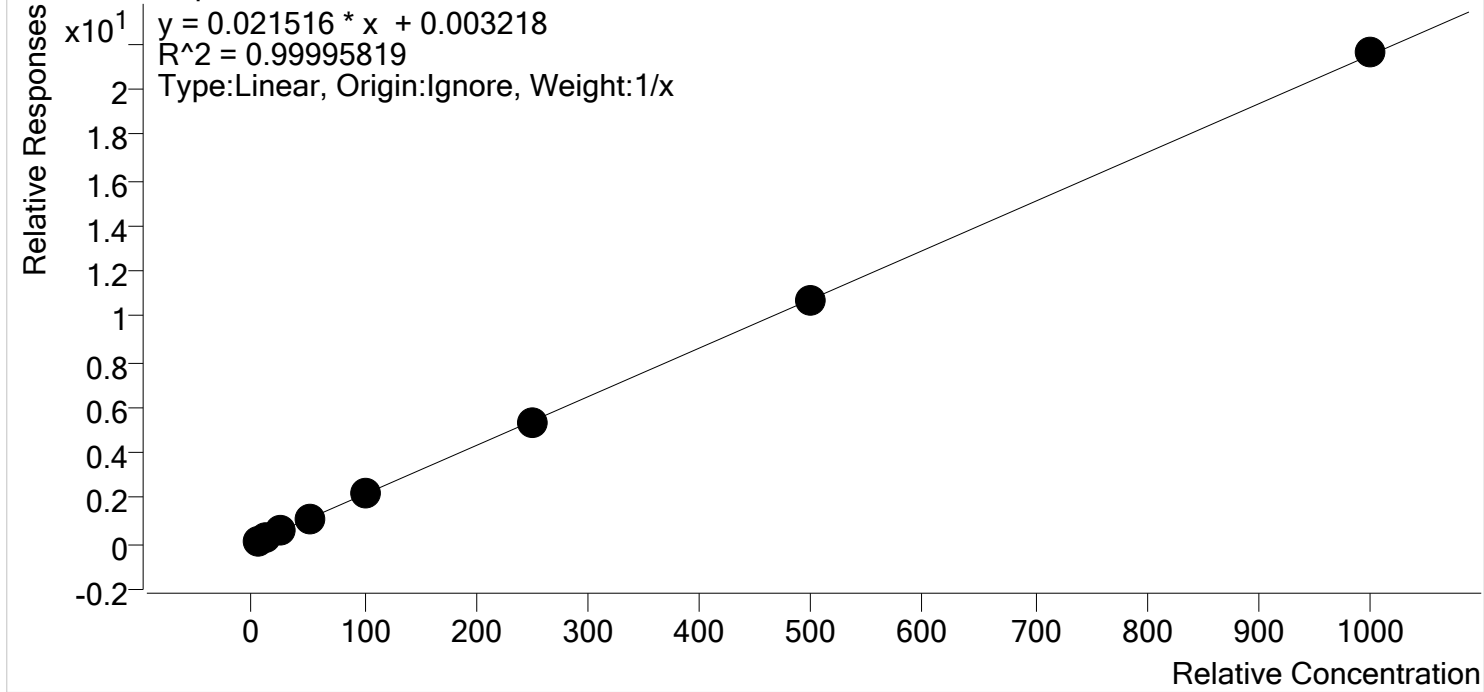
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	21.5	86.0
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	97.0	97.0
p1 Cal 6-250ng	6	✓	250.0	259.6	103.8
p1 Cal 7-500ng	7	✓	500.0	522.2	104.4
p1 Cal 8-1000ng	8	✓	1000.0	1041.5	104.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

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

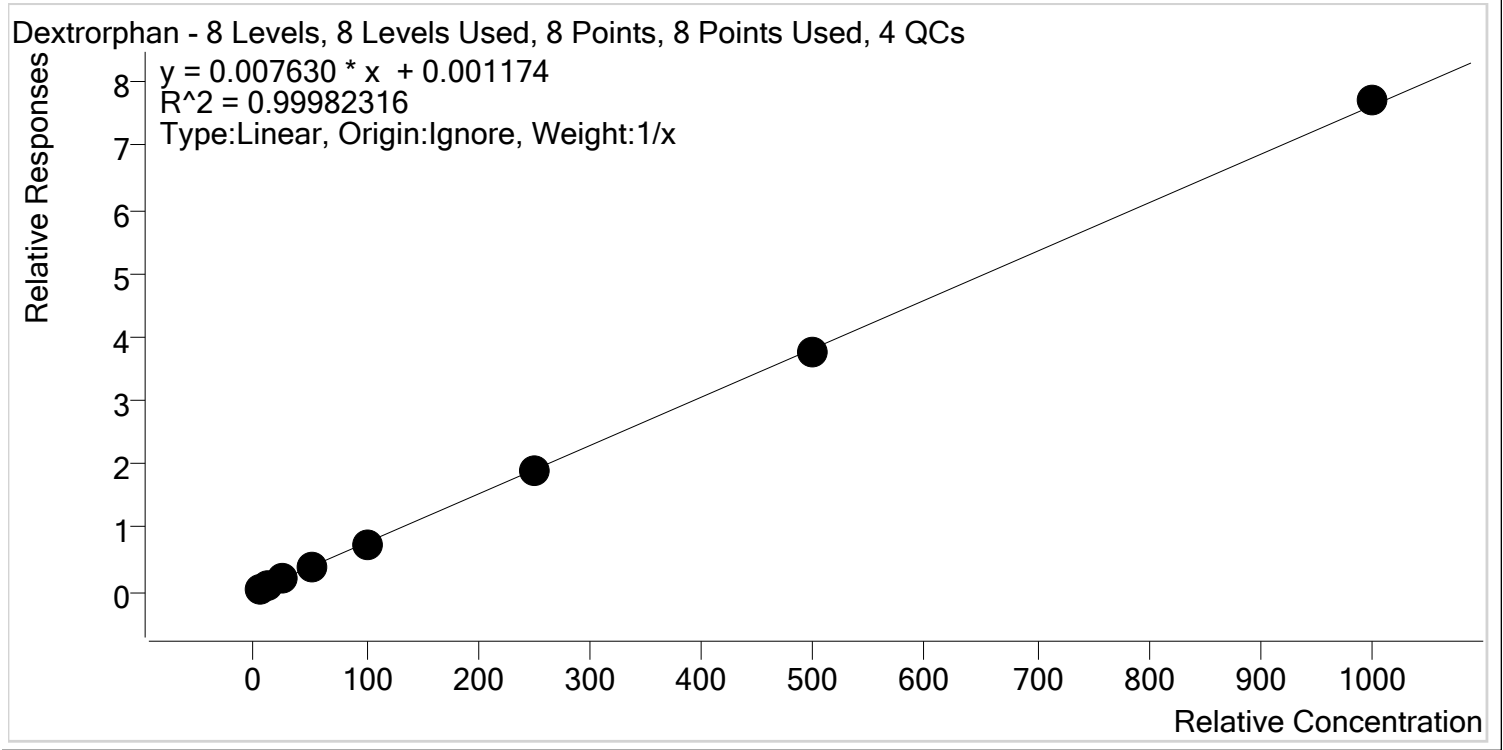


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.2	103.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	497.9	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1005.2	100.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Dextrophan **Internal Standard** Dextrophan-D3

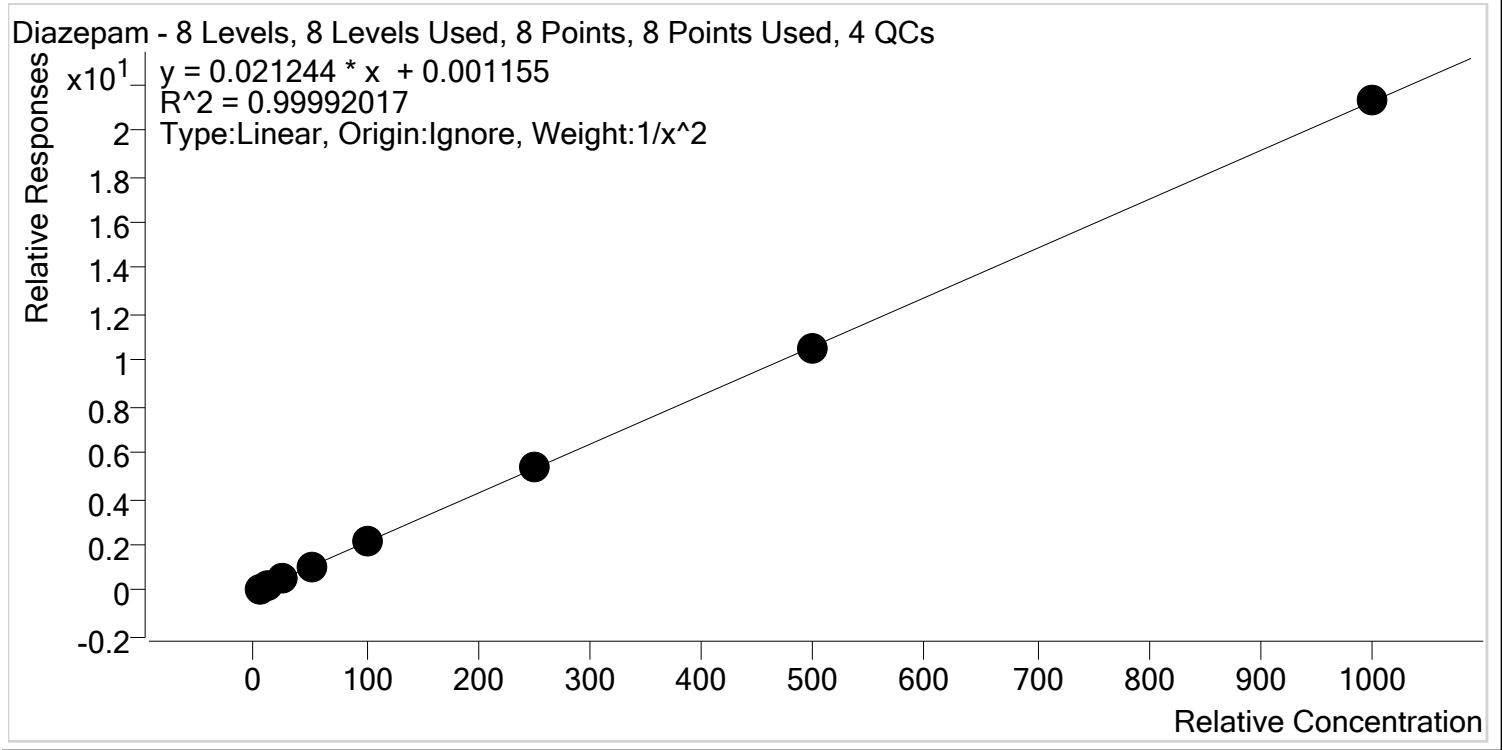


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.2	103.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	492.6	98.5
p1 Cal 8-1000ng	8	✓	1000.0	1010.9	101.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Diazepam **Internal Standard** Diazepam-D5



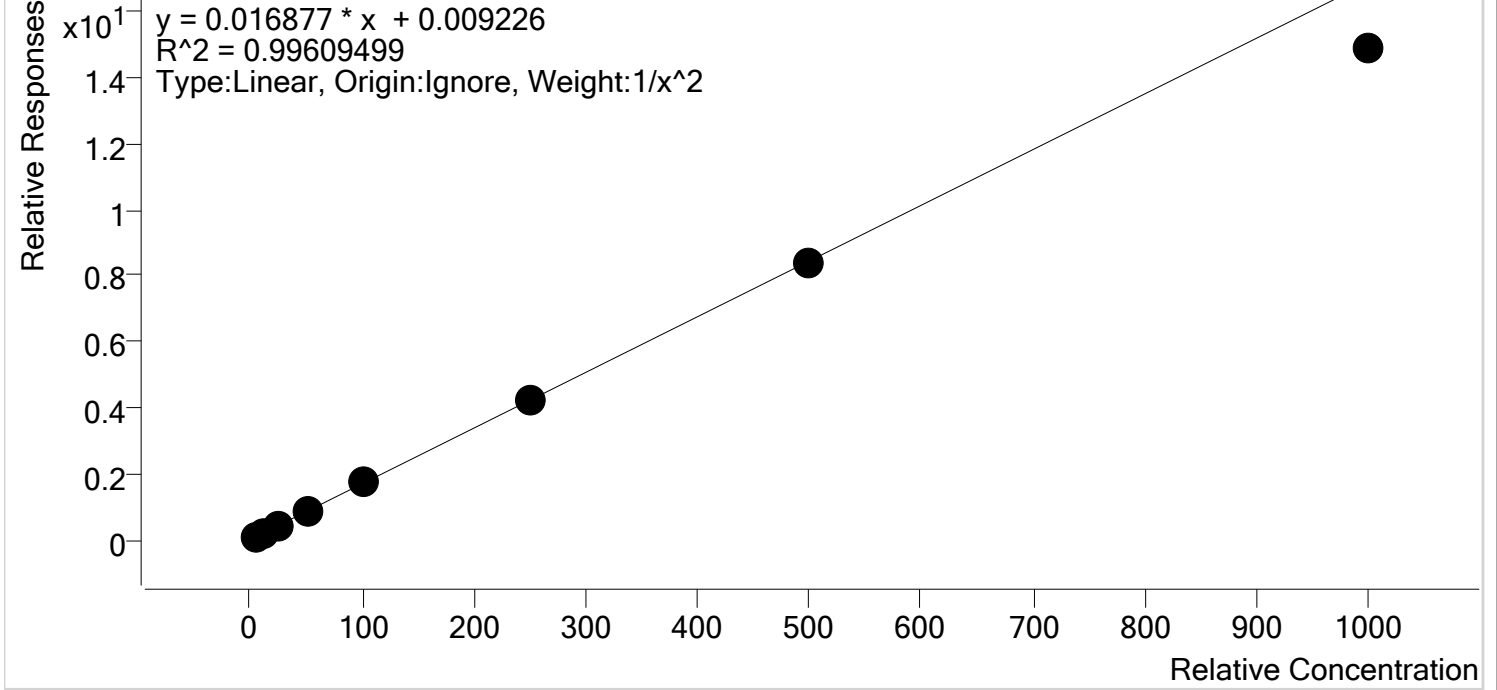
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	50.5	101.1
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	498.3	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1002.2	100.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

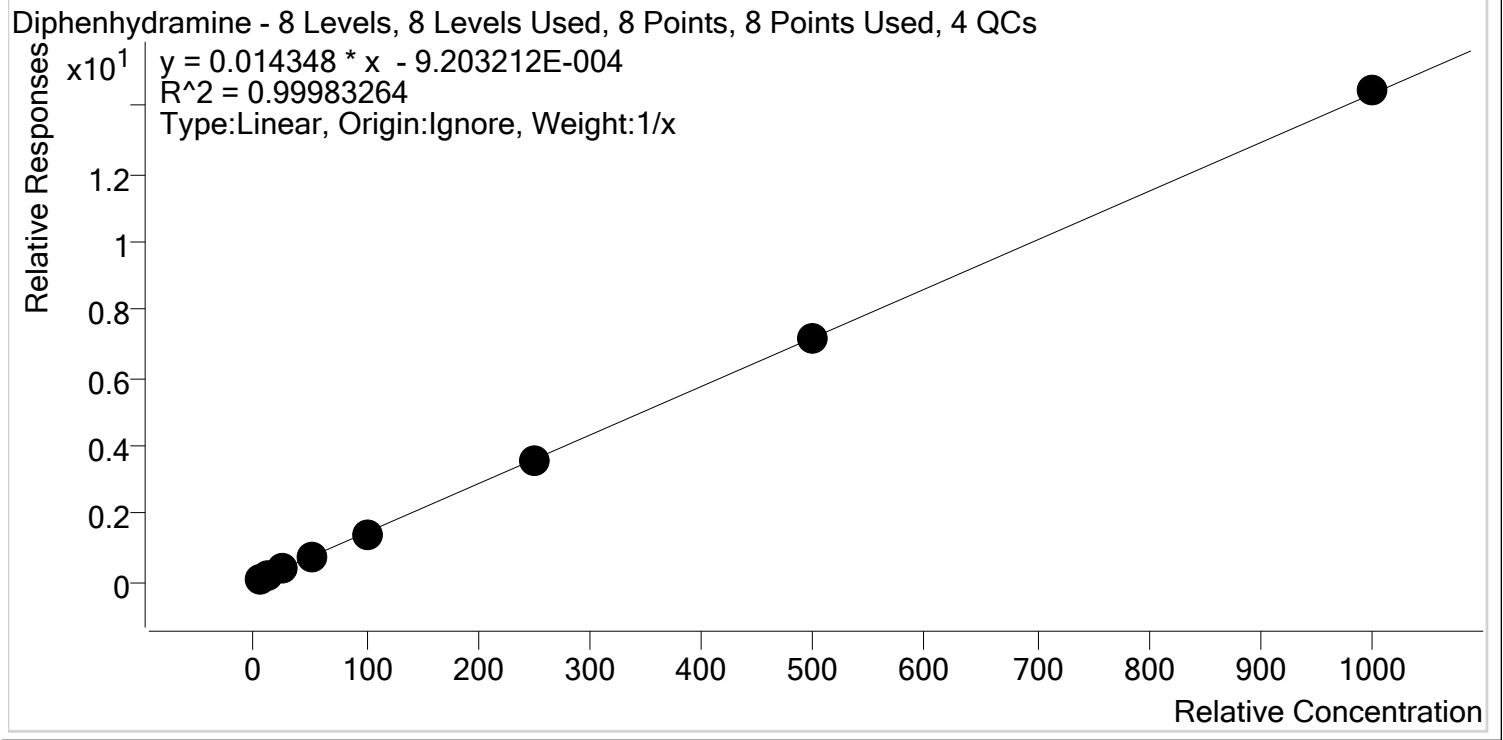


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.6
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	103.5	103.5
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	494.1	98.8
p1 Cal 8-1000ng	8	✓	1000.0	881.5	88.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

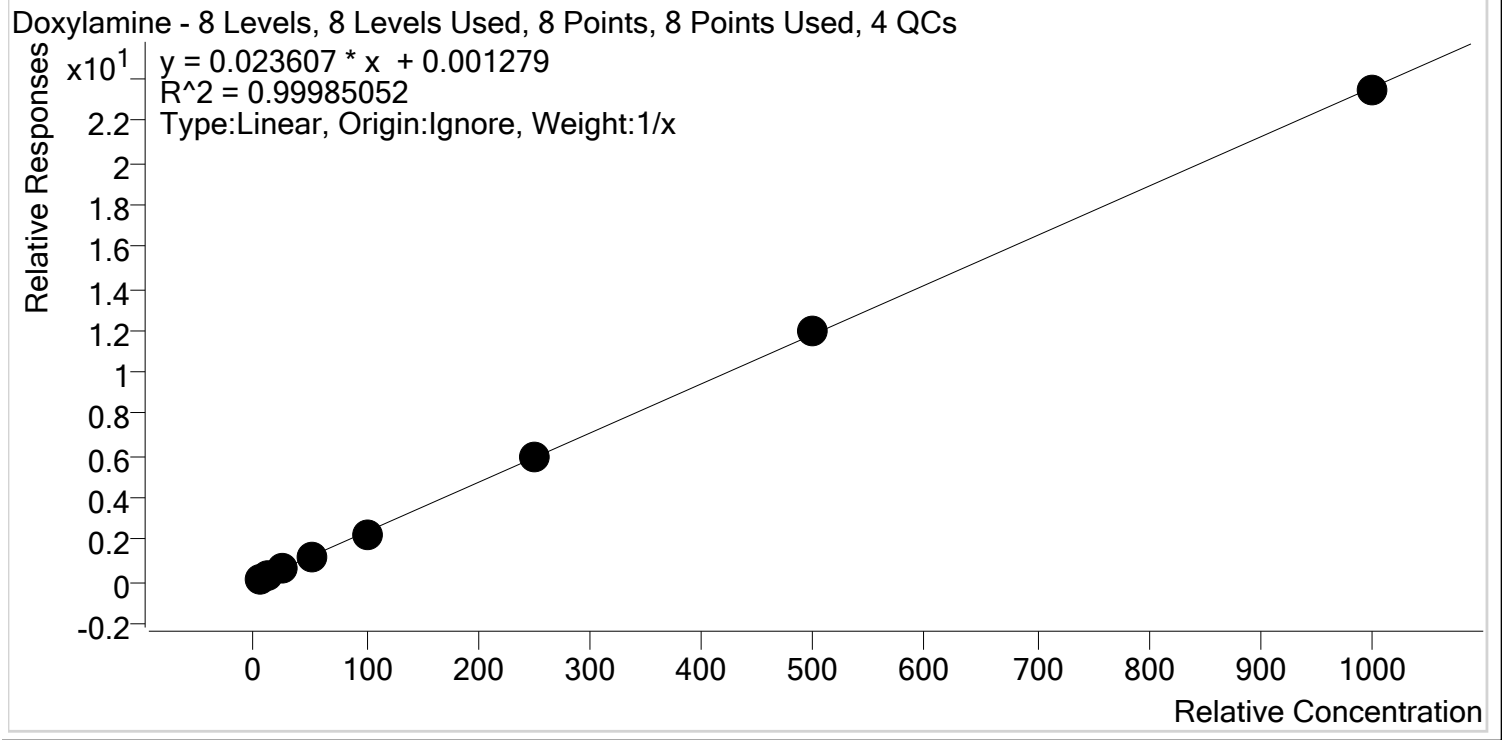


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.4	107.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	49.3	98.5
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	246.2	98.5
p1 Cal 7-500ng	7	✓	500.0	501.4	100.3
p1 Cal 8-1000ng	8	✓	1000.0	1006.9	100.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

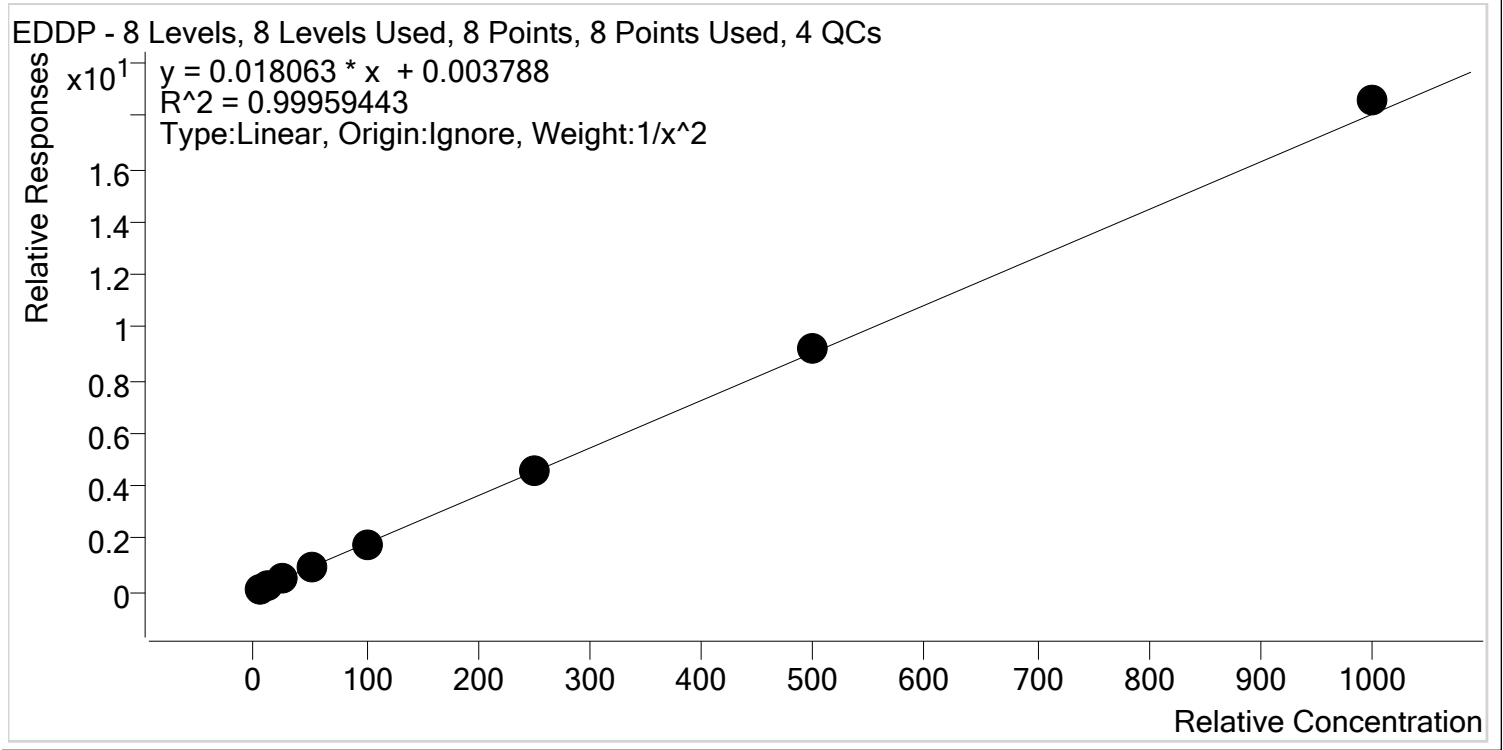


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.2	103.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.2
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	508.3	101.7
p1 Cal 8-1000ng	8	✓	1000.0	993.9	99.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte EDDP **Internal Standard** EDDP-D3

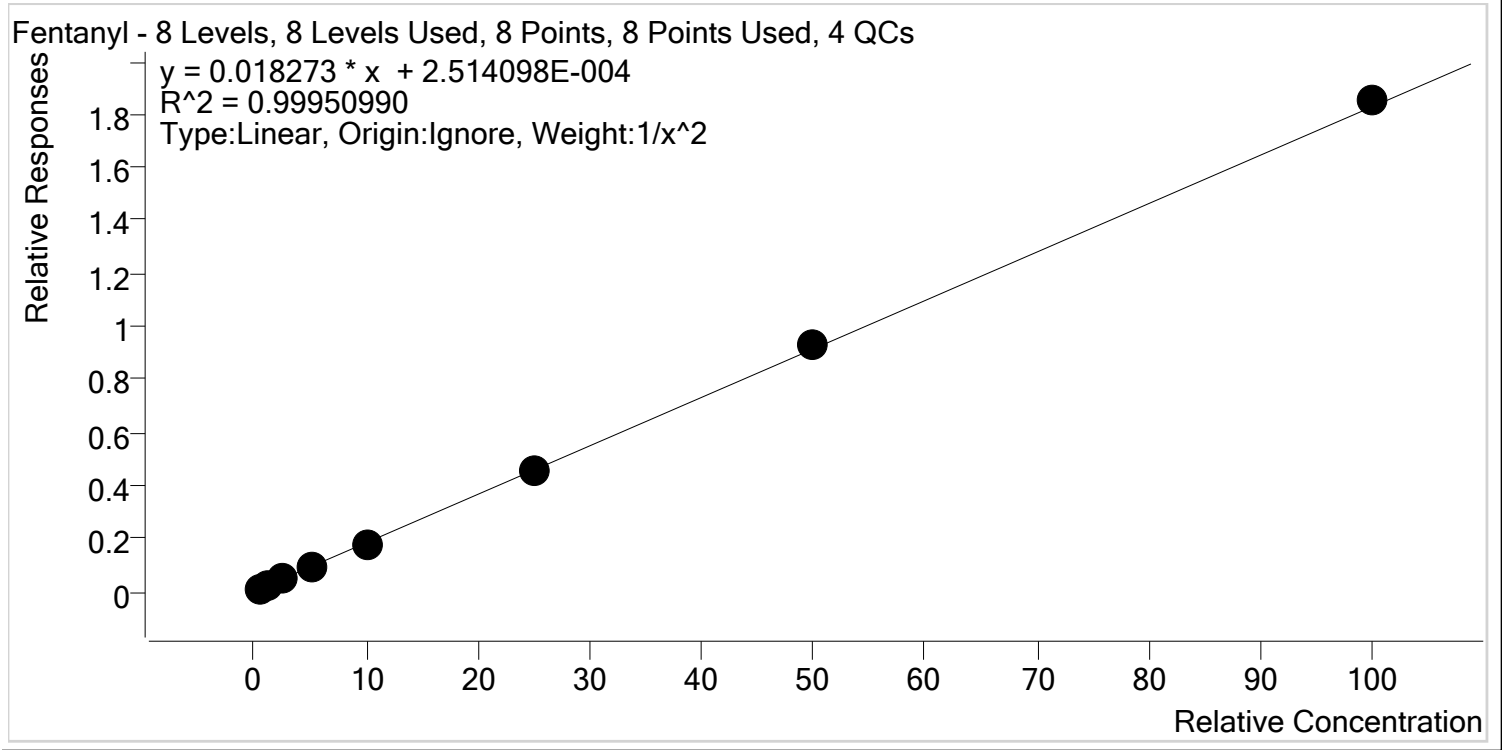


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	506.8	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1028.7	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

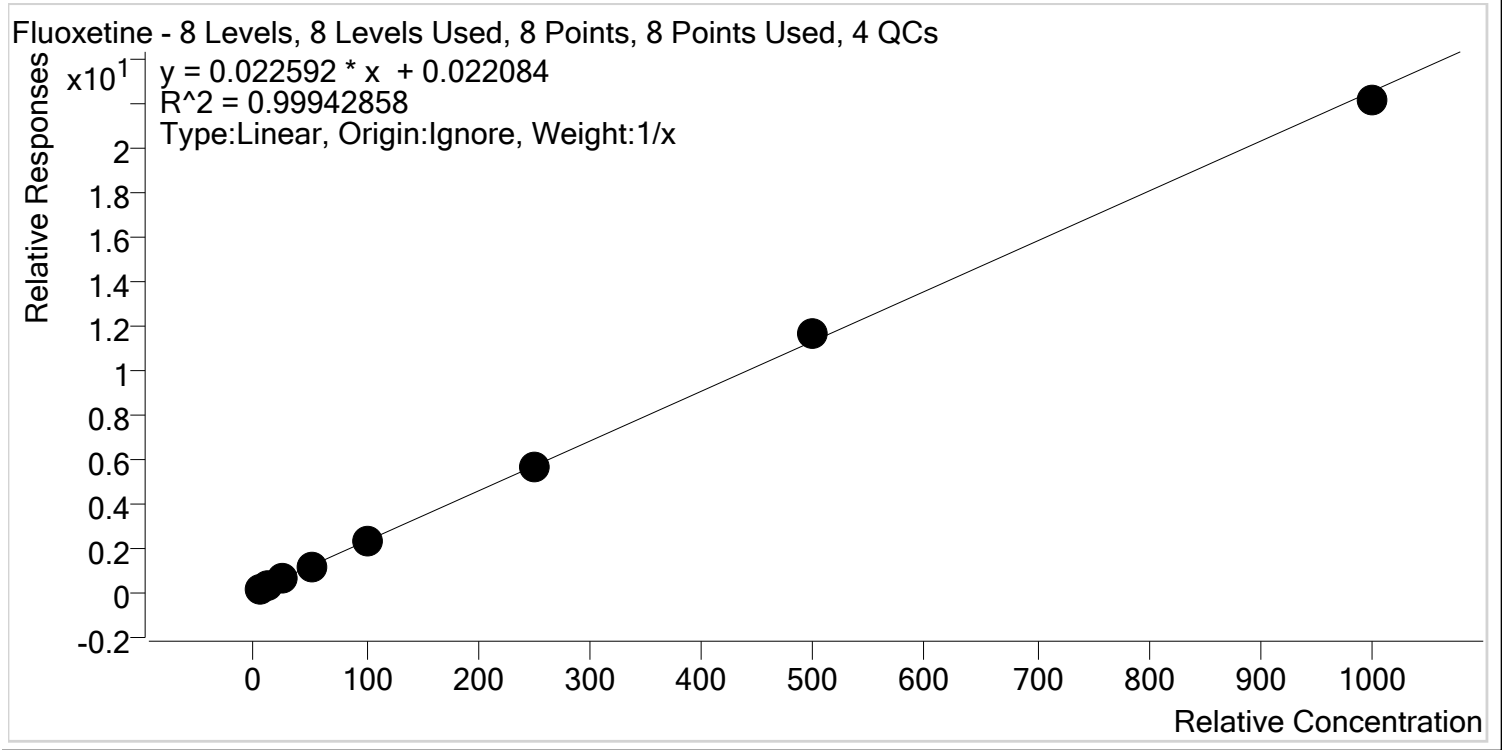


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	0.5	0.5	101.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.1
p1 Cal 3 -25ng	3	✓	2.5	2.5	98.9
p1 Cal 4-50ng	4	✓	5.0	5.1	102.7
p1 Cal 5-100ng	5	✓	10.0	9.8	98.2
p1 Cal 6-250ng	6	✓	25.0	24.8	99.3
p1 Cal 7-500ng	7	✓	50.0	50.6	101.1
p1 Cal 8-1000ng	8	✓	100.0	101.3	101.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

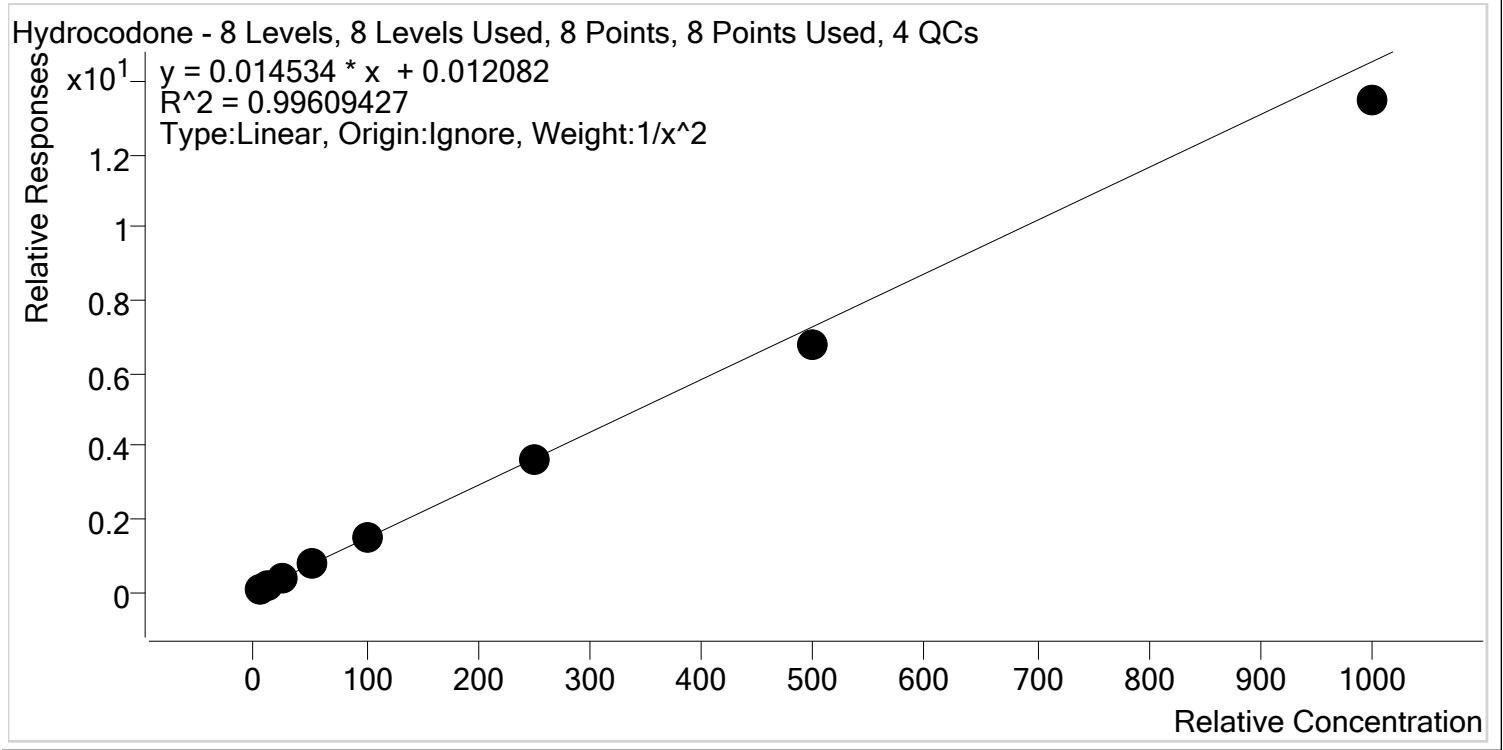


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	51.7	103.3
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	249.9	100.0
p1 Cal 7-500ng	7	✓	500.0	517.3	103.5
p1 Cal 8-1000ng	8	✓	1000.0	981.3	98.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

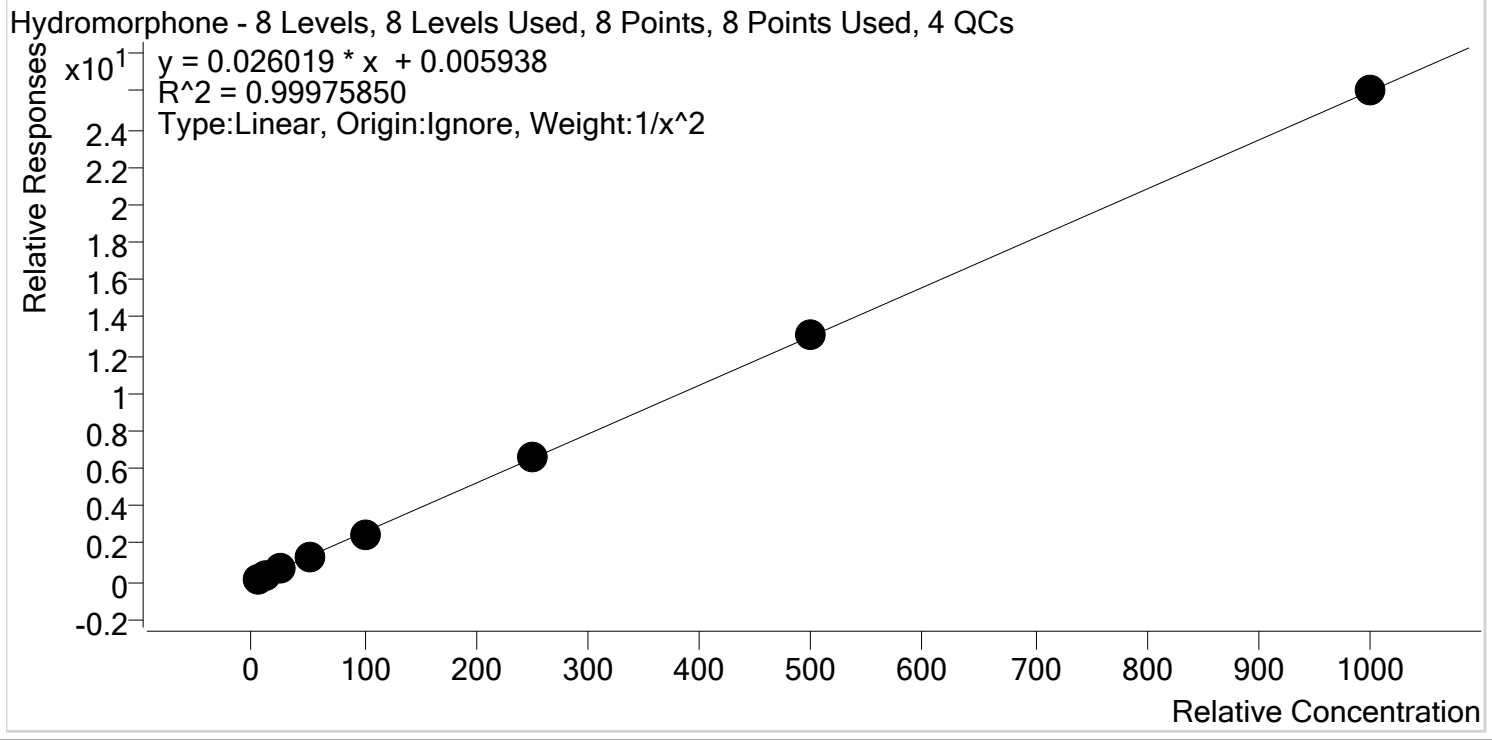


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.8
p1 Cal 4-50ng	4	✓	50.0	53.0	106.1
p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	464.8	93.0
p1 Cal 8-1000ng	8	✓	1000.0	926.5	92.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

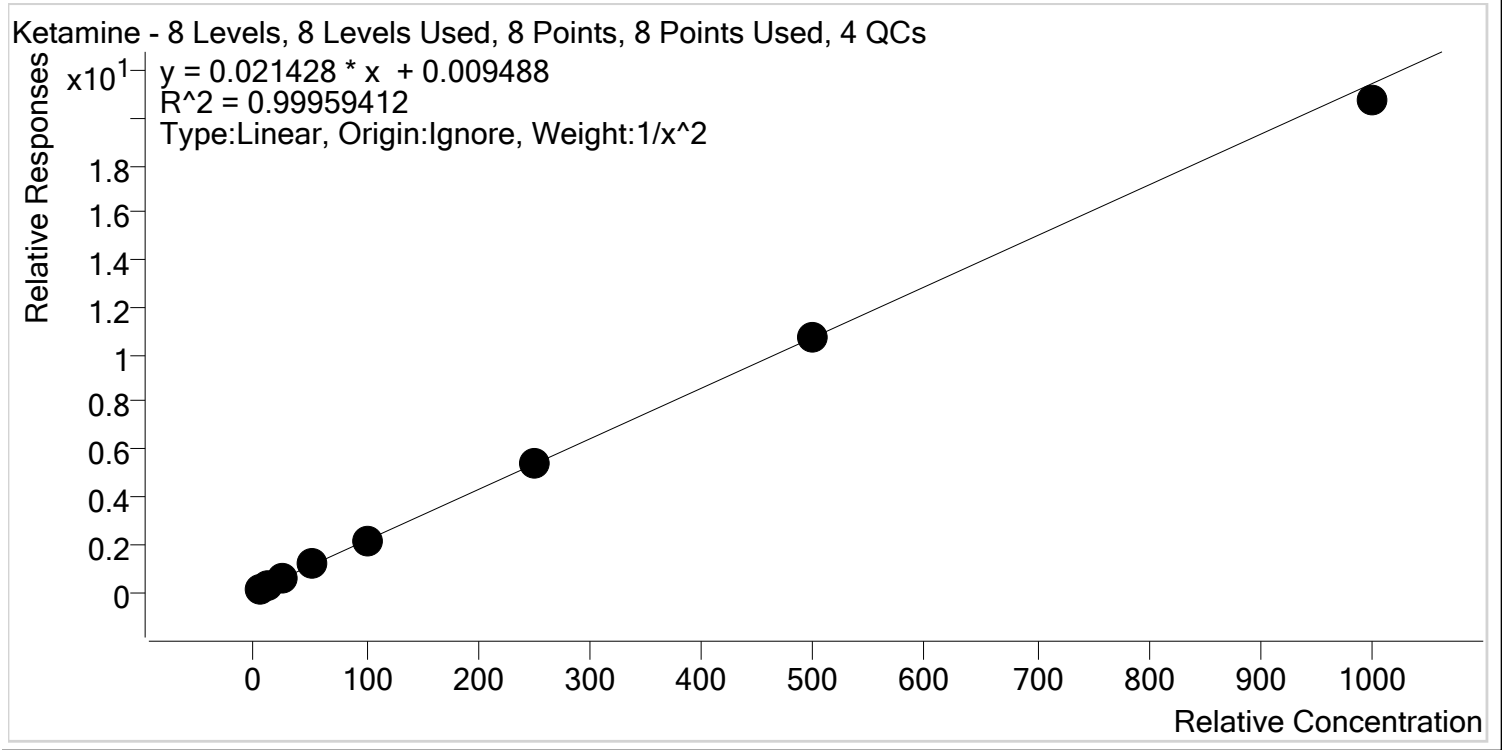


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	51.1	102.1
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	252.9	101.2
p1 Cal 7-500ng	7	✓	500.0	501.0	100.2
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\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

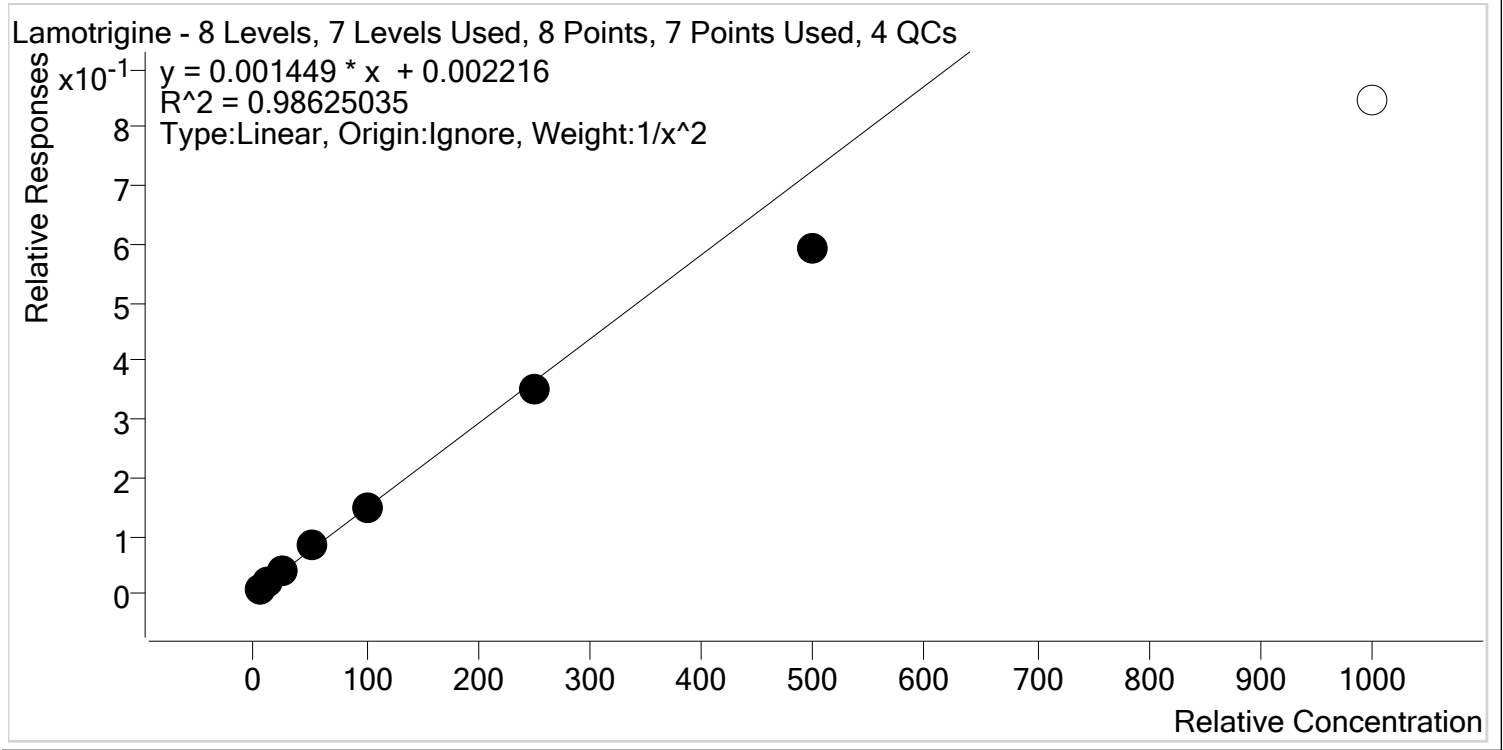


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	99.2
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	497.0	99.4
p1 Cal 8-1000ng	8	✓	1000.0	966.5	96.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

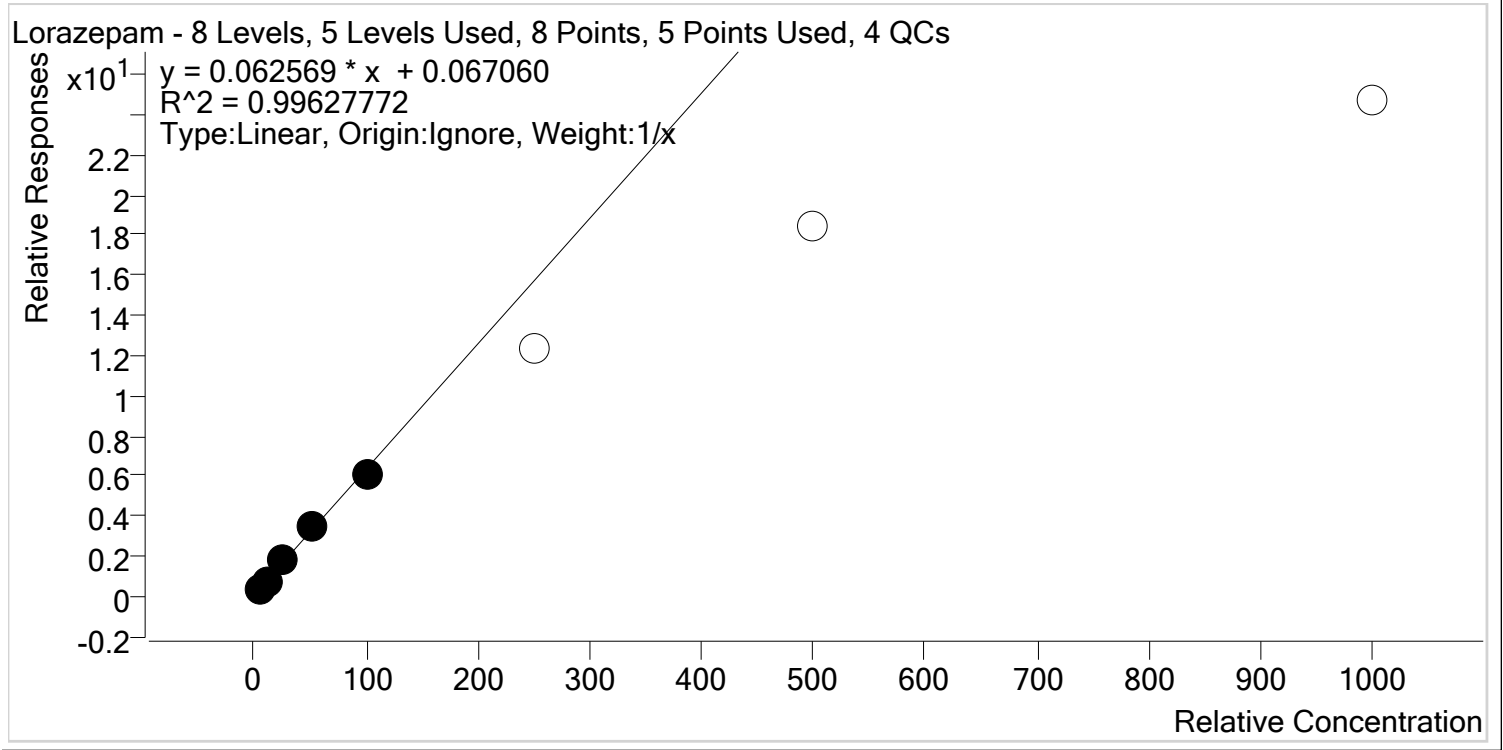


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.7	93.8
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.3
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.9
p1 Cal 4-50ng	4	✓	50.0	54.4	108.8
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	242.9	97.2
p1 Cal 7-500ng	7	✓	500.0	408.4	81.7
p1 Cal 8-1000ng	8	✗	1000.0	582.4	58.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

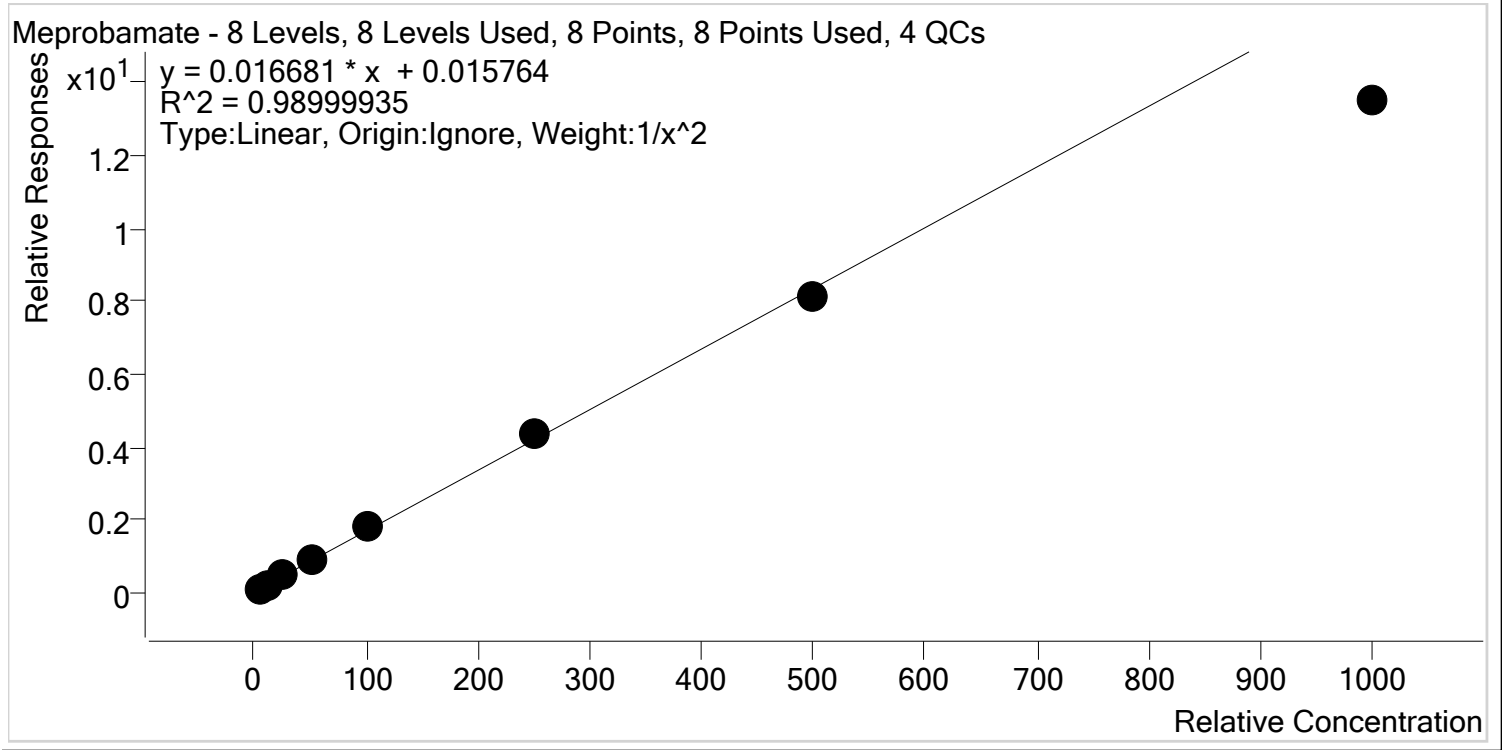


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.6	91.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.2
p1 Cal 4-50ng	4	✓	50.0	53.0	106.1
p1 Cal 5-100ng	5	✓	100.0	95.9	95.9
p1 Cal 6-250ng	6	✗	250.0	196.0	78.4
p1 Cal 7-500ng	7	✗	500.0	294.6	58.9
p1 Cal 8-1000ng	8	✗	1000.0	394.0	39.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

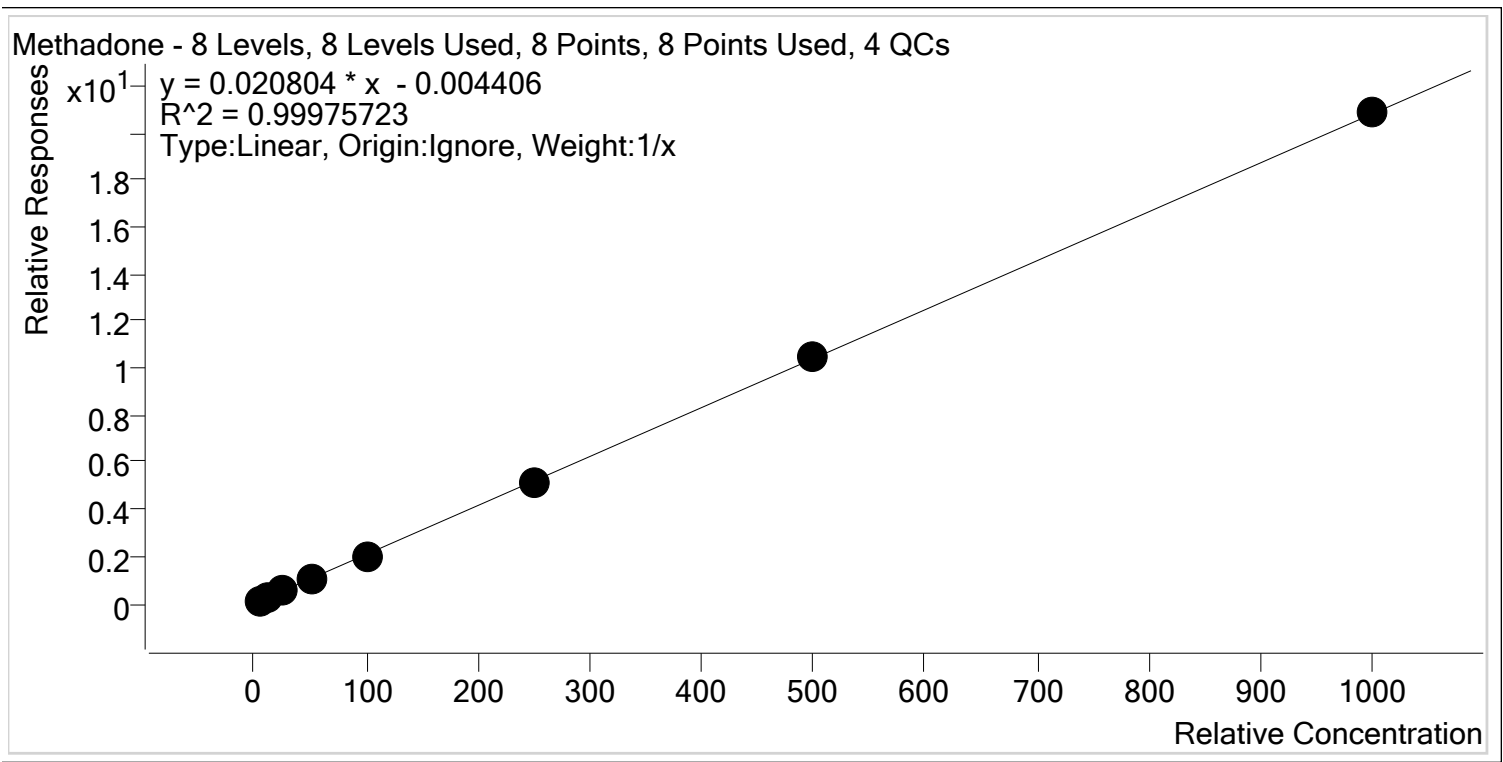


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.2
p1 Cal 4-50ng	4	✓	50.0	54.5	108.9
p1 Cal 5-100ng	5	✓	100.0	105.2	105.2
p1 Cal 6-250ng	6	✓	250.0	261.0	104.4
p1 Cal 7-500ng	7	✓	500.0	485.0	97.0
p1 Cal 8-1000ng	8	✓	1000.0	809.5	81.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Methadone **Internal Standard** Methadone-D9

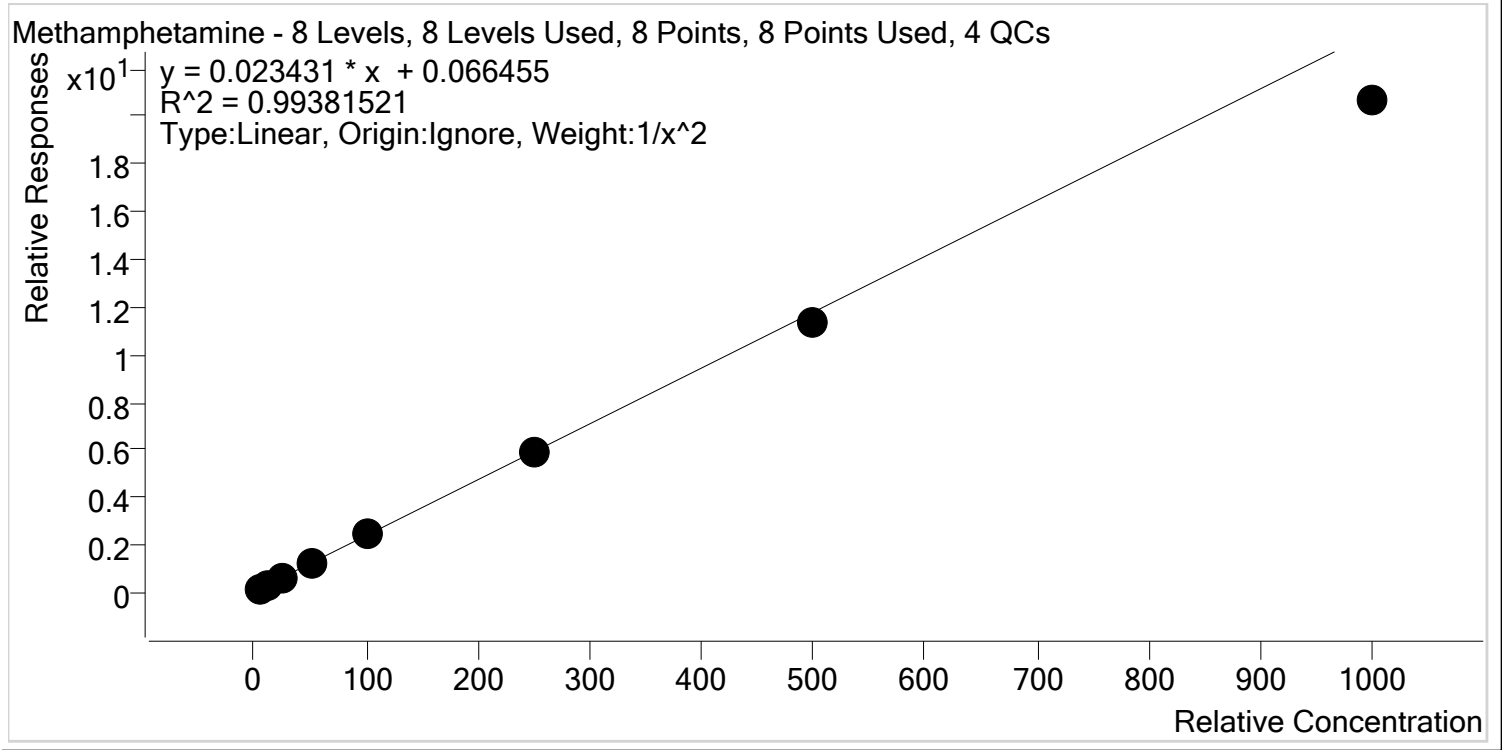


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.4	107.7
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	48.7	97.4
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	245.2	98.1
p1 Cal 7-500ng	7	✓	500.0	507.2	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1002.8	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

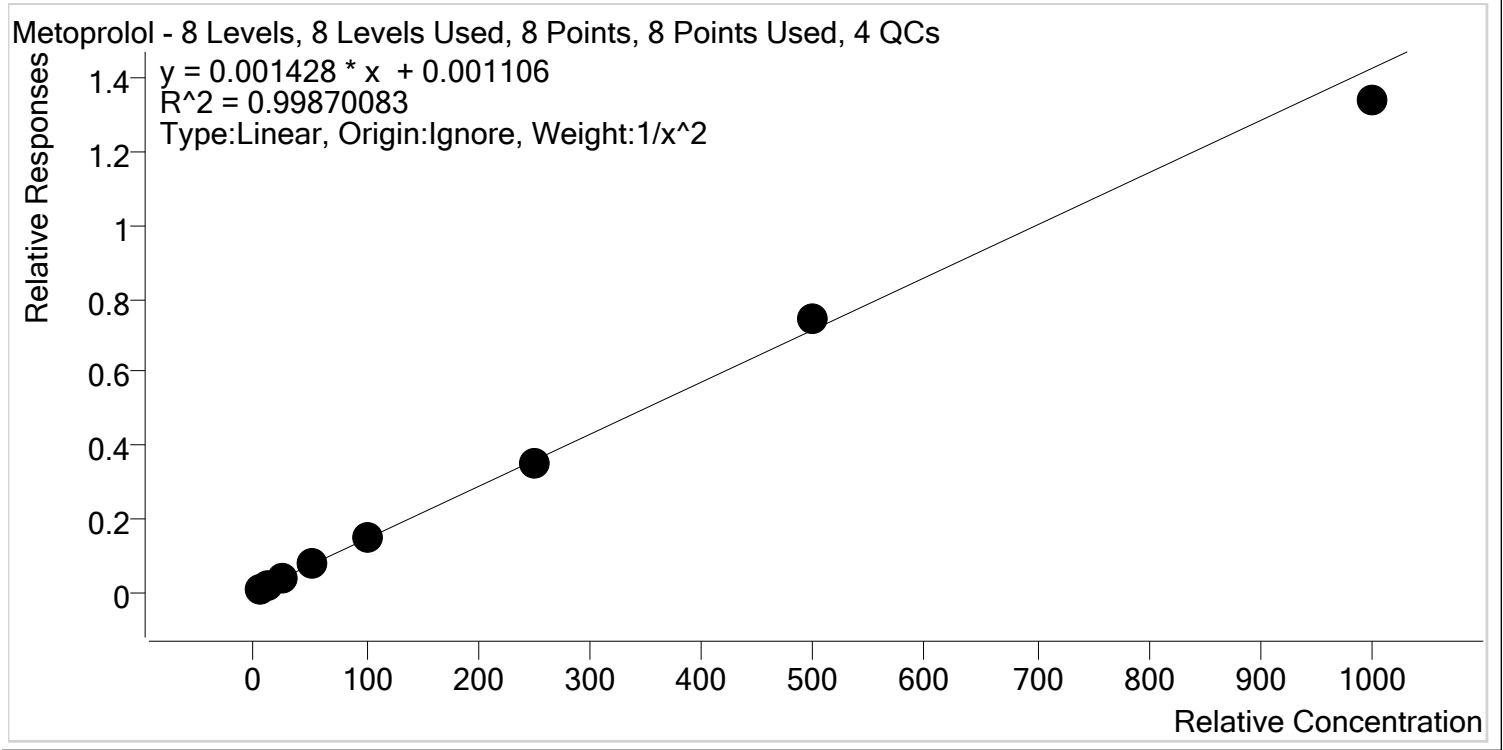


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.7	94.3
p1 Cal 2- 10ng	2	✓	10.0	10.8	108.1
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.4
p1 Cal 4-50ng	4	✓	50.0	53.0	106.0
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	480.0	96.0
p1 Cal 8-1000ng	8	✓	1000.0	879.0	87.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

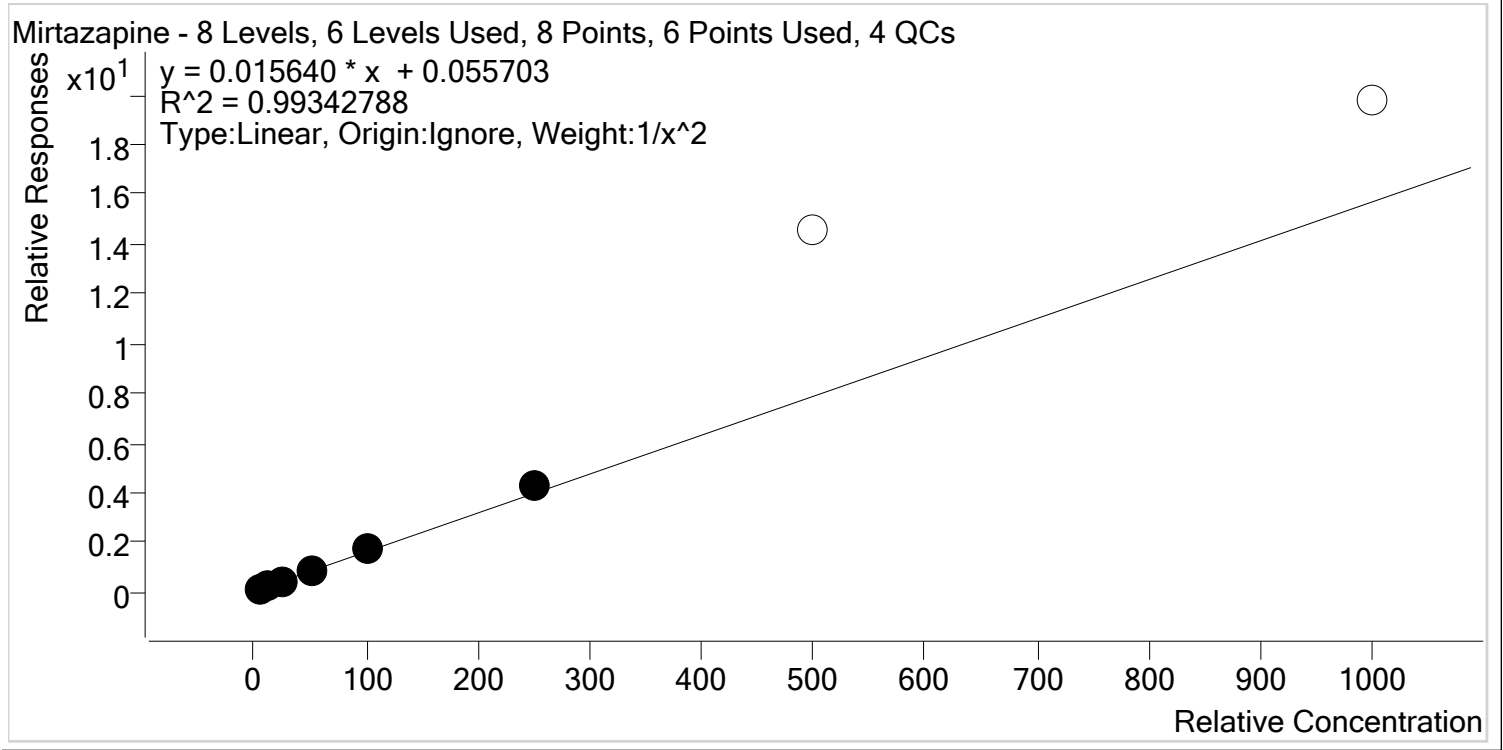


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	99.2
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.2
p1 Cal 4-50ng	4	✓	50.0	51.7	103.4
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	246.5	98.6
p1 Cal 7-500ng	7	✓	500.0	519.7	103.9
p1 Cal 8-1000ng	8	✓	1000.0	938.2	93.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

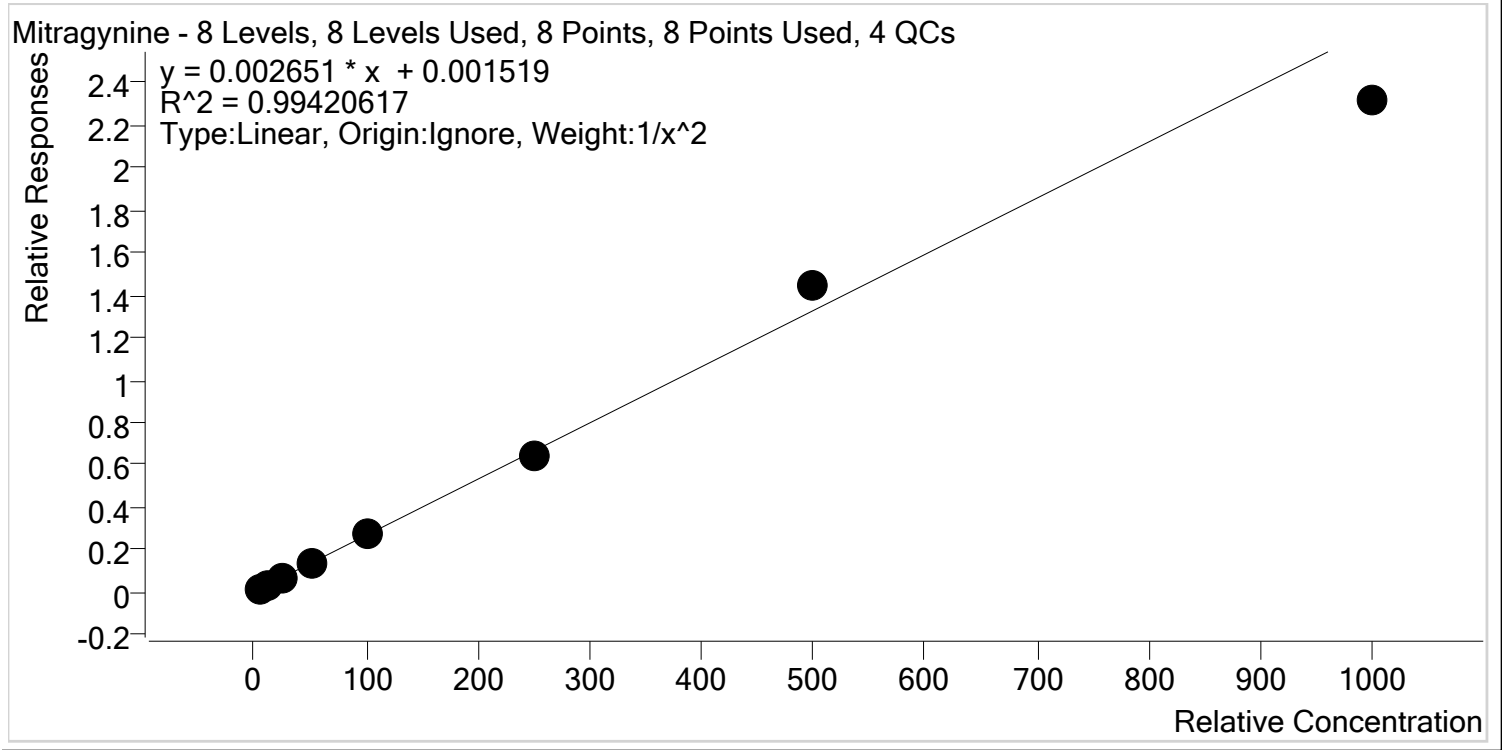


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.2	104.3
p1 Cal 2- 10ng	2	✓	10.0	9.4	94.2
p1 Cal 3 -25ng	3	✓	25.0	23.2	92.8
p1 Cal 4-50ng	4	✓	50.0	47.6	95.1
p1 Cal 5-100ng	5	✓	100.0	106.2	106.2
p1 Cal 6-250ng	6	✓	250.0	268.2	107.3
p1 Cal 7-500ng	7	x	500.0	931.8	186.4
p1 Cal 8-1000ng	8	x	1000.0	1260.6	126.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

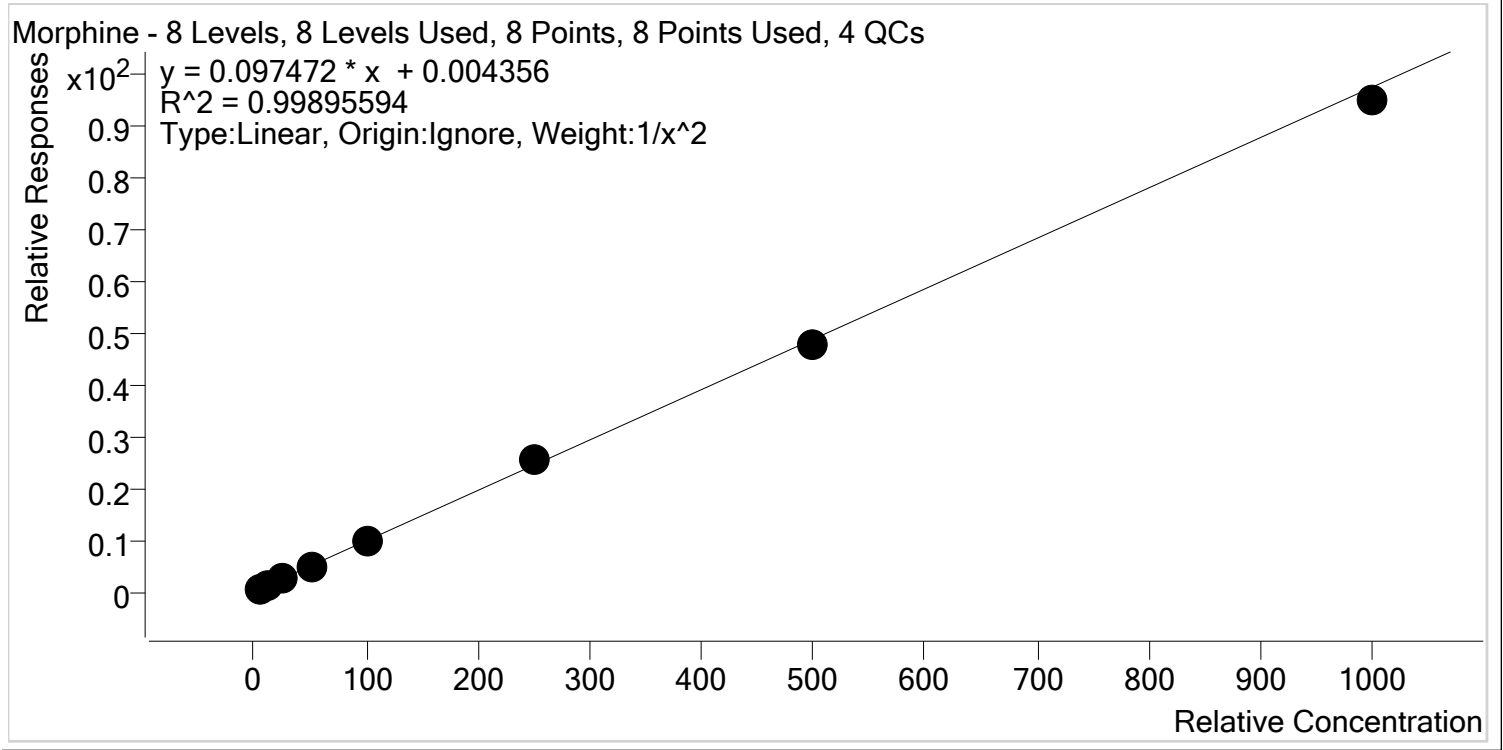


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.4
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	104.4	104.4
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	544.9	109.0
p1 Cal 8-1000ng	8	✓	1000.0	873.7	87.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Morphine **Internal Standard** Morphine-D6

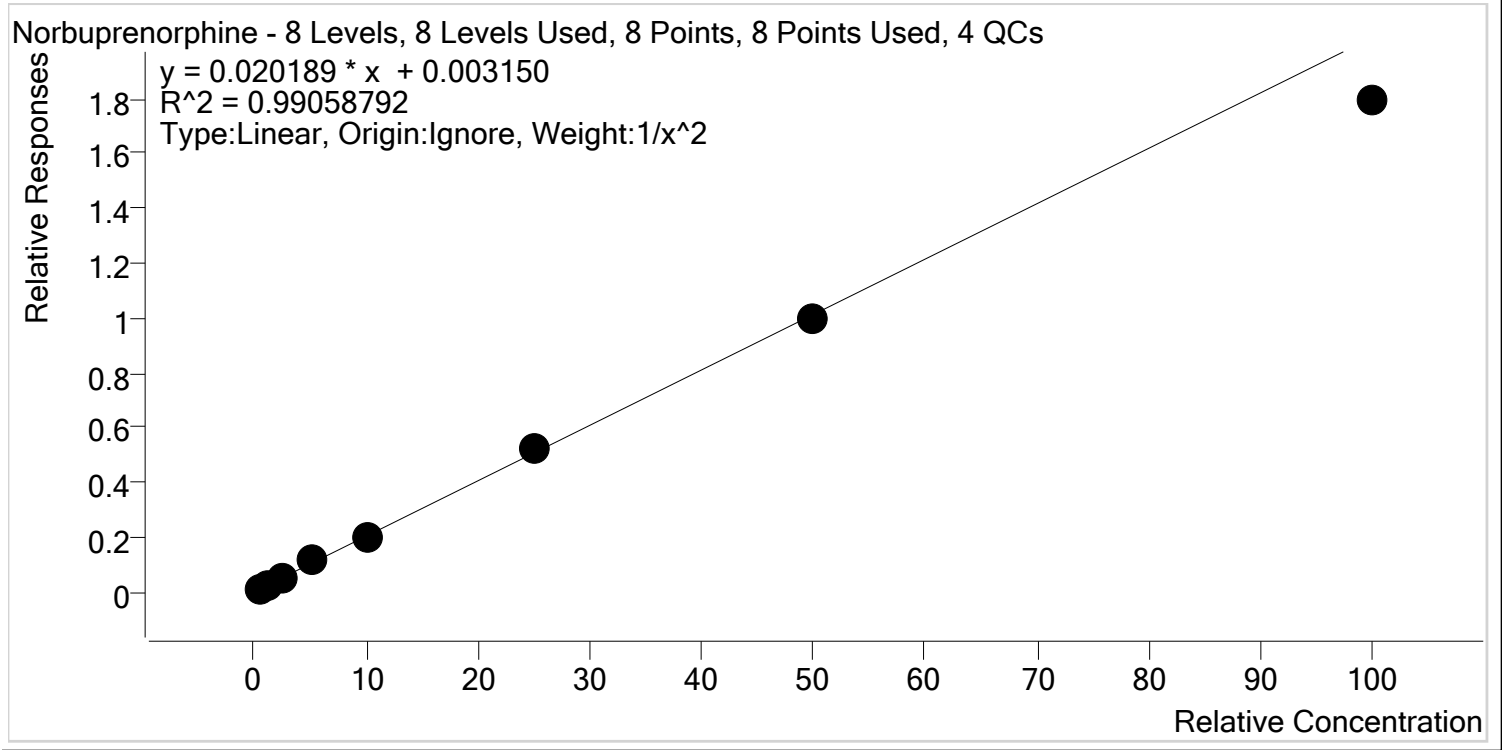


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	97.8
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.5
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	50.2	100.5
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	259.9	104.0
p1 Cal 7-500ng	7	✓	500.0	492.0	98.4
p1 Cal 8-1000ng	8	✓	1000.0	973.4	97.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



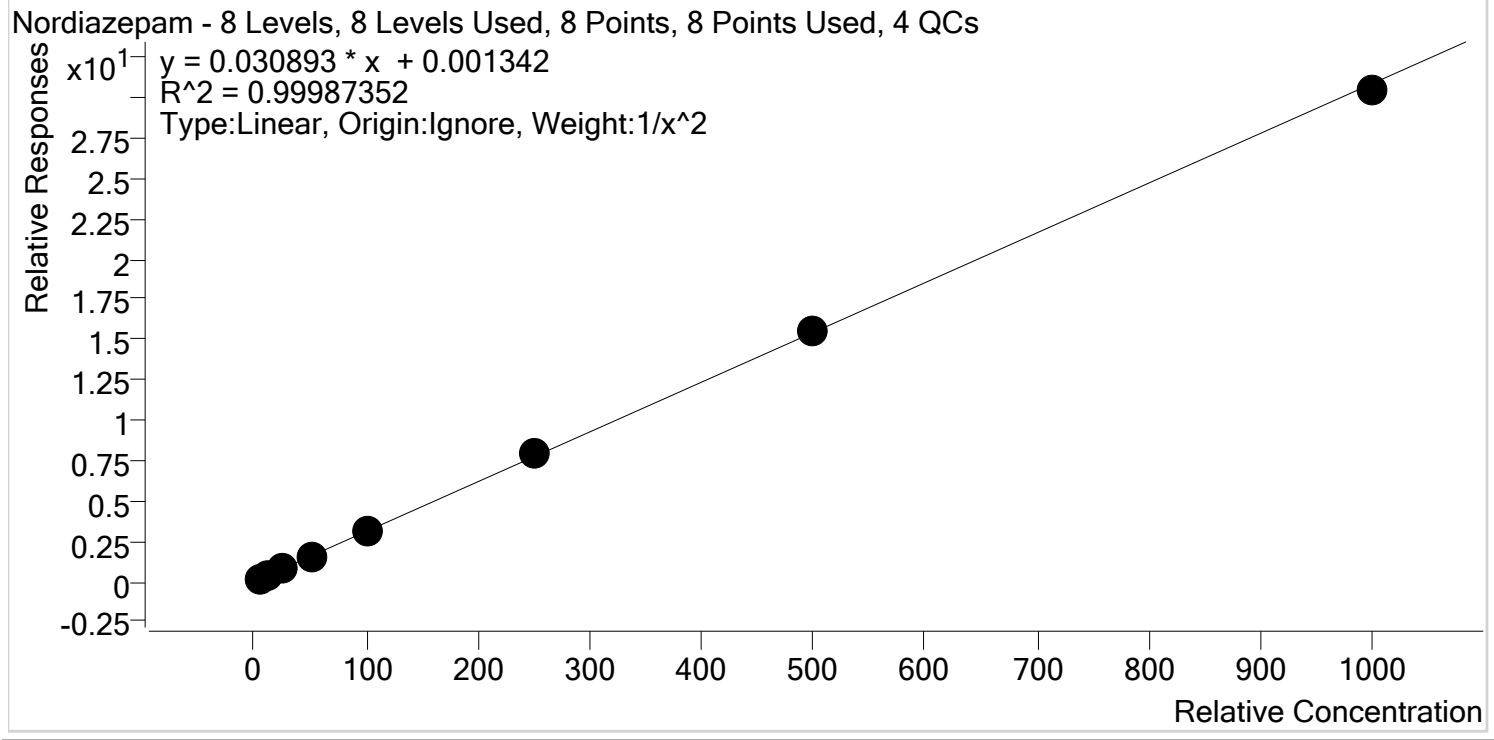
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	0.5	0.5	103.0
p1 Cal 2- 10ng	2	✓	1.0	0.9	91.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.3
p1 Cal 4-50ng	4	✓	5.0	5.8	116.4
p1 Cal 5-100ng	5	✓	10.0	10.1	100.6
p1 Cal 6-250ng	6	✓	25.0	26.0	103.8
p1 Cal 7-500ng	7	✓	50.0	49.3	98.6
p1 Cal 8-1000ng	8	✓	100.0	88.6	88.6

CS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Nordiazepam Internal Standard Nordiazepam-D5



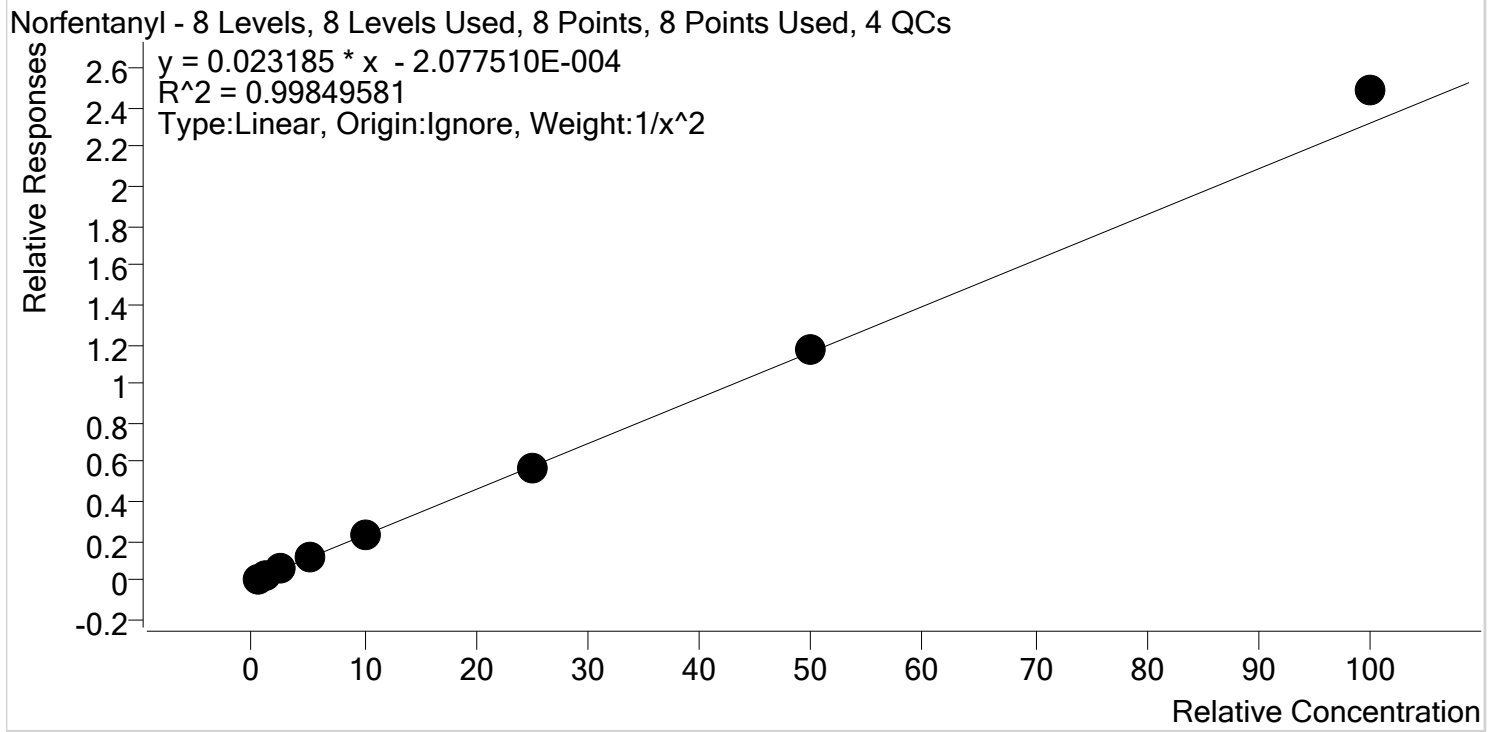
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	254.7	101.9
p1 Cal 7-500ng	7	✓	500.0	499.5	99.9
p1 Cal 8-1000ng	8	✓	1000.0	986.0	98.6

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Norfentanyl Internal Standard Norfentanyl-D5

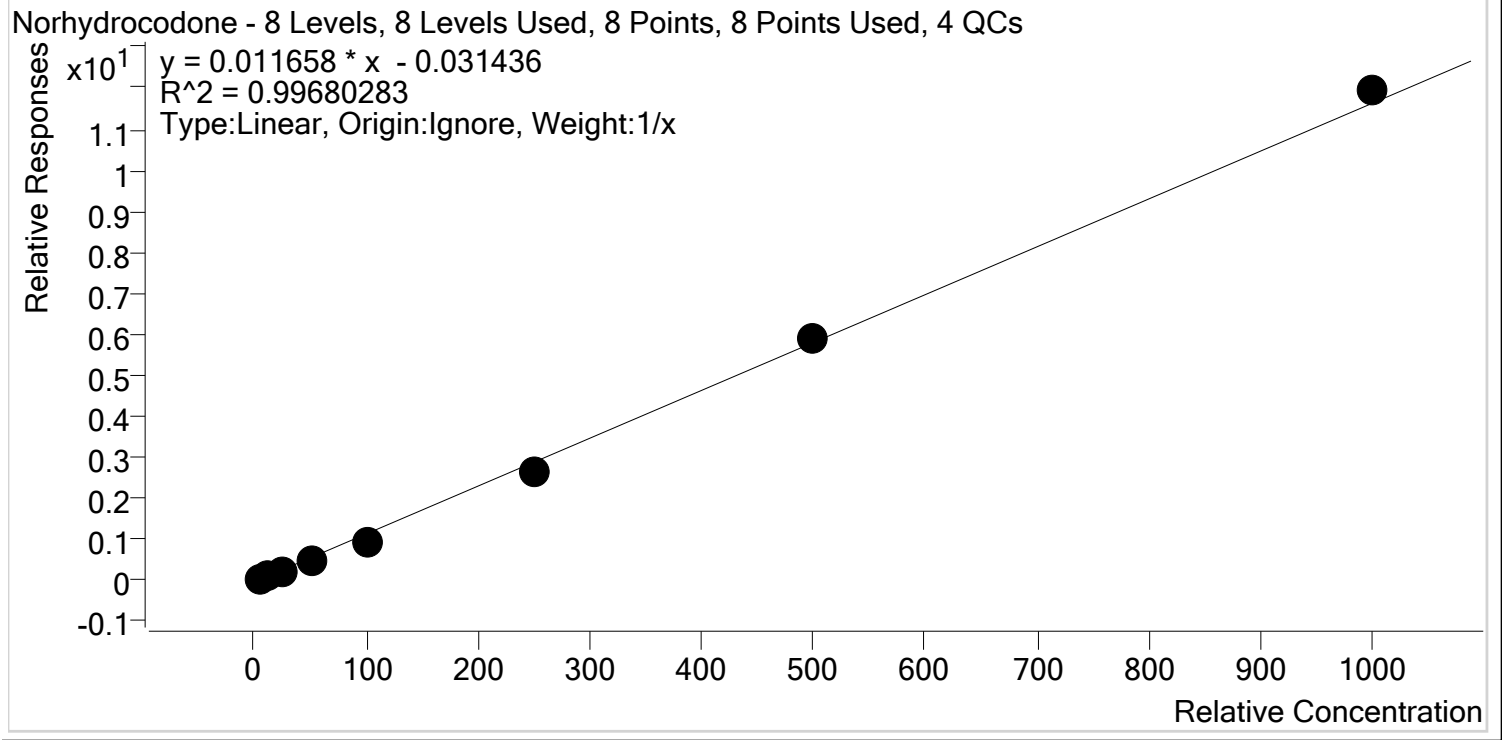


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	0.5	0.5	101.6
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.9
p1 Cal 4-50ng	4	✓	5.0	4.9	97.3
p1 Cal 5-100ng	5	✓	10.0	9.7	97.5
p1 Cal 6-250ng	6	✓	25.0	24.9	99.8
p1 Cal 7-500ng	7	✓	50.0	50.6	101.1
p1 Cal 8-1000ng	8	✓	100.0	107.1	107.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

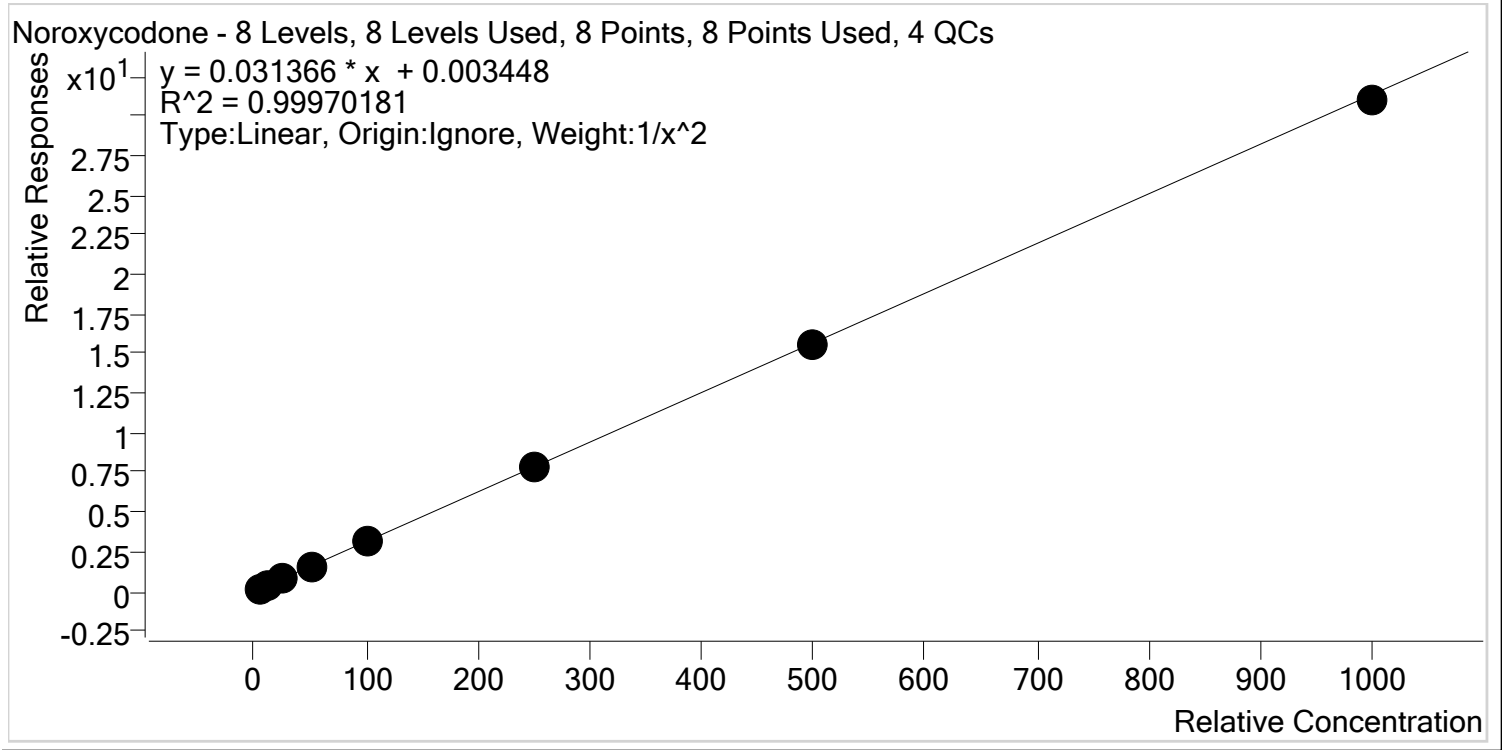


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	6.5	129.4
p1 Cal 2- 10ng	2	✓	10.0	10.9	108.7
p1 Cal 3 -25ng	3	✓	25.0	22.6	90.5
p1 Cal 4-50ng	4	✓	50.0	43.8	87.6
p1 Cal 5-100ng	5	✓	100.0	85.9	85.9
p1 Cal 6-250ng	6	✓	250.0	232.5	93.0
p1 Cal 7-500ng	7	✓	500.0	511.2	102.2
p1 Cal 8-1000ng	8	✓	1000.0	1026.6	102.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

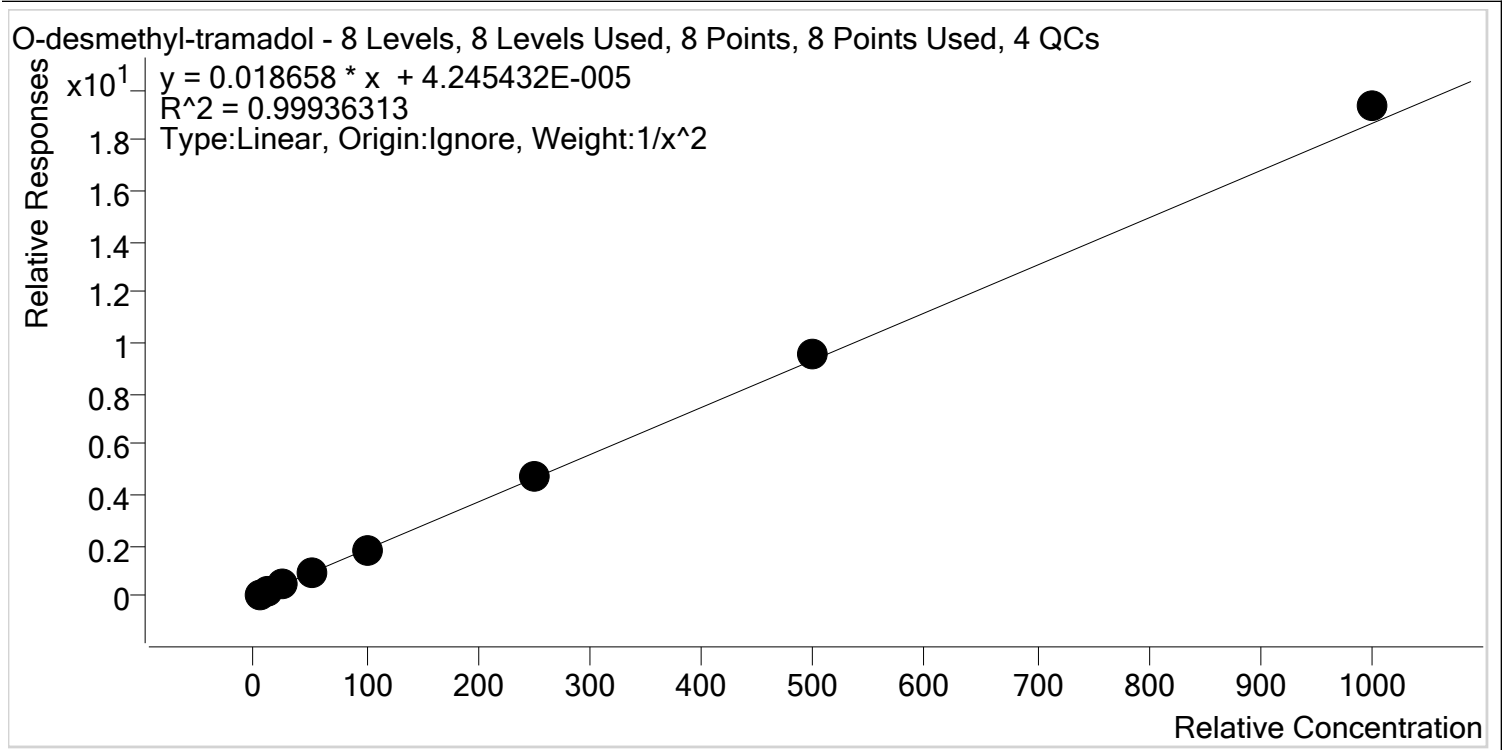


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	97.7	97.7
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	499.9	100.0
p1 Cal 8-1000ng	8	✓	1000.0	987.8	98.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

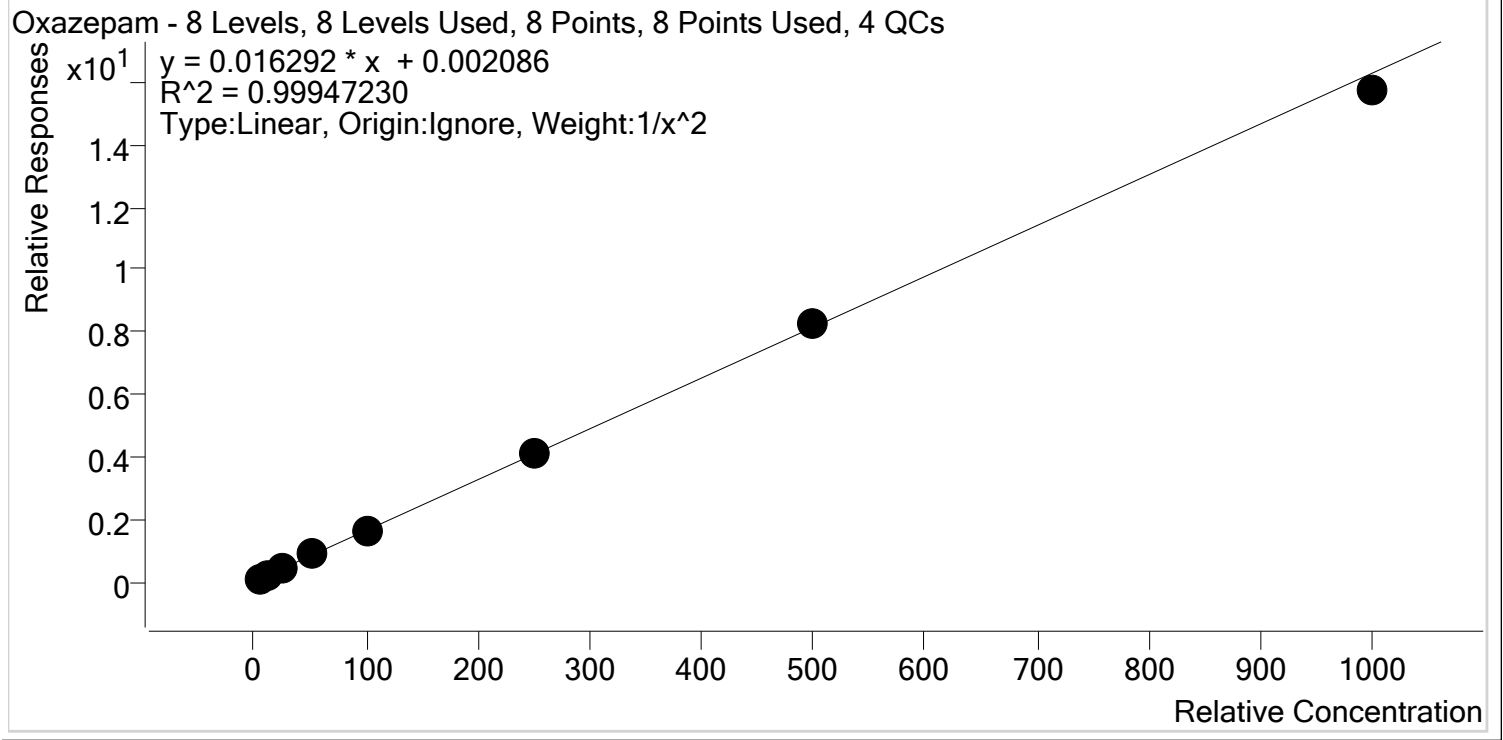


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	49.5	98.9
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	509.4	101.9
p1 Cal 8-1000ng	8	✓	1000.0	1036.1	103.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

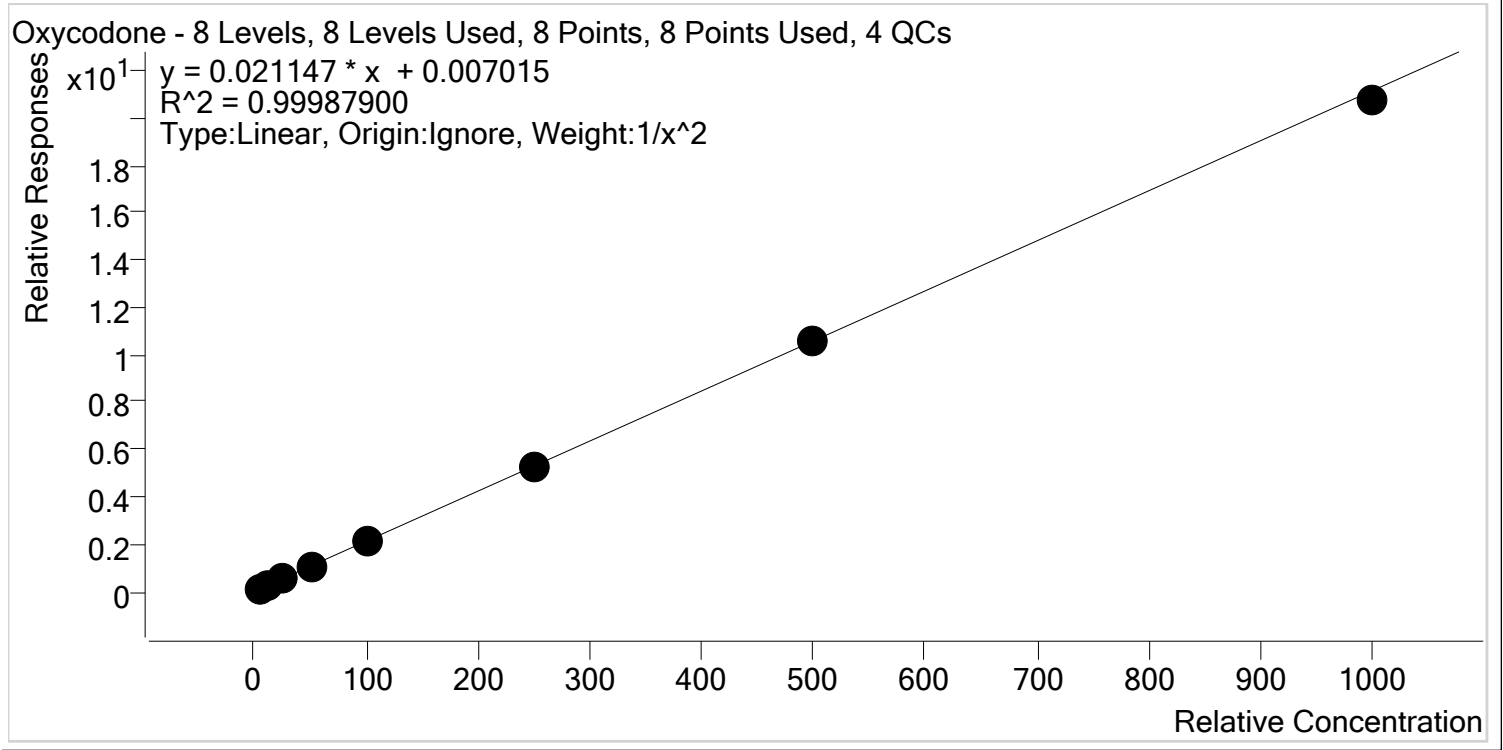


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	51.3	102.7
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	508.3	101.7
p1 Cal 8-1000ng	8	✓	1000.0	965.8	96.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6



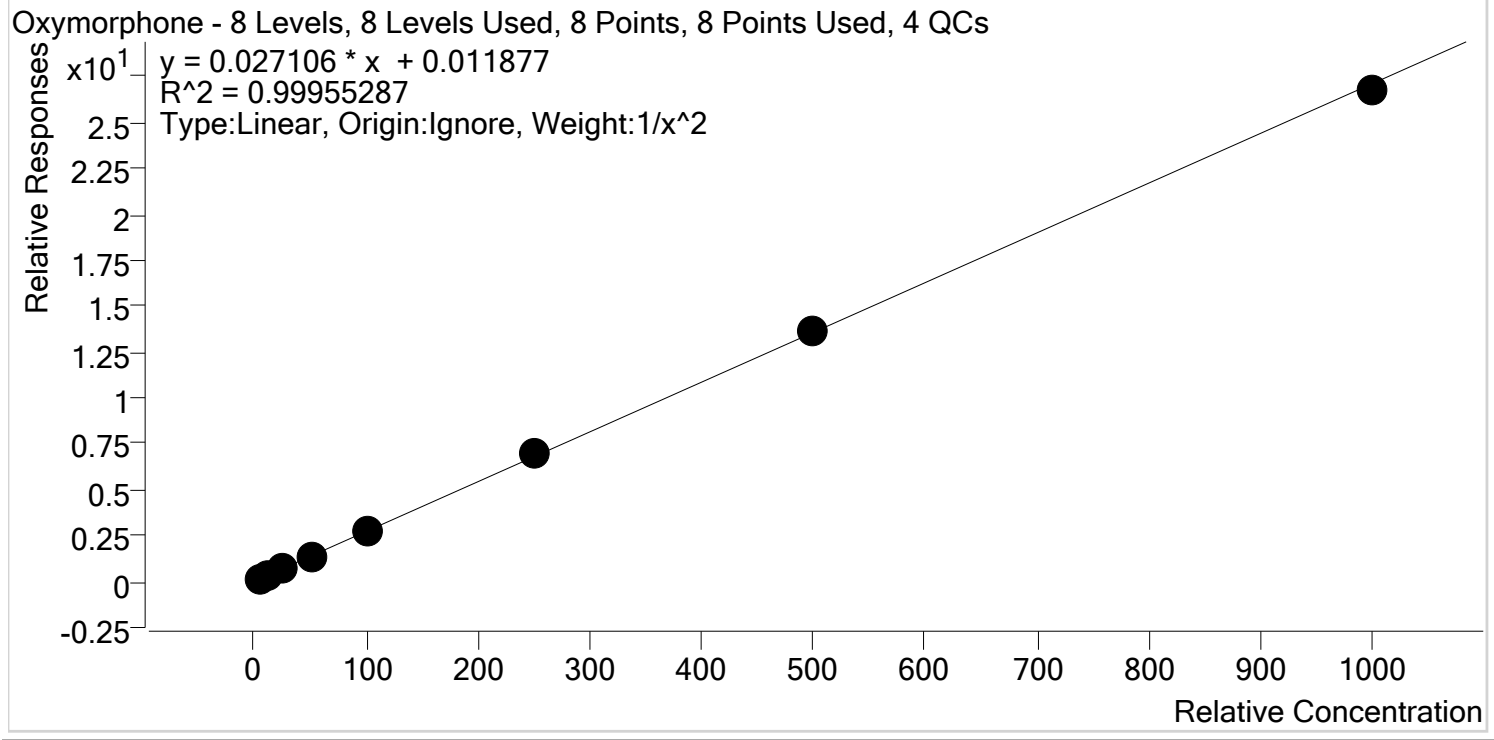
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	99.6	99.6
p1 Cal 6-250ng	6	✓	250.0	251.9	100.7
p1 Cal 7-500ng	7	✓	500.0	502.5	100.5
p1 Cal 8-1000ng	8	✓	1000.0	980.3	98.0

CS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

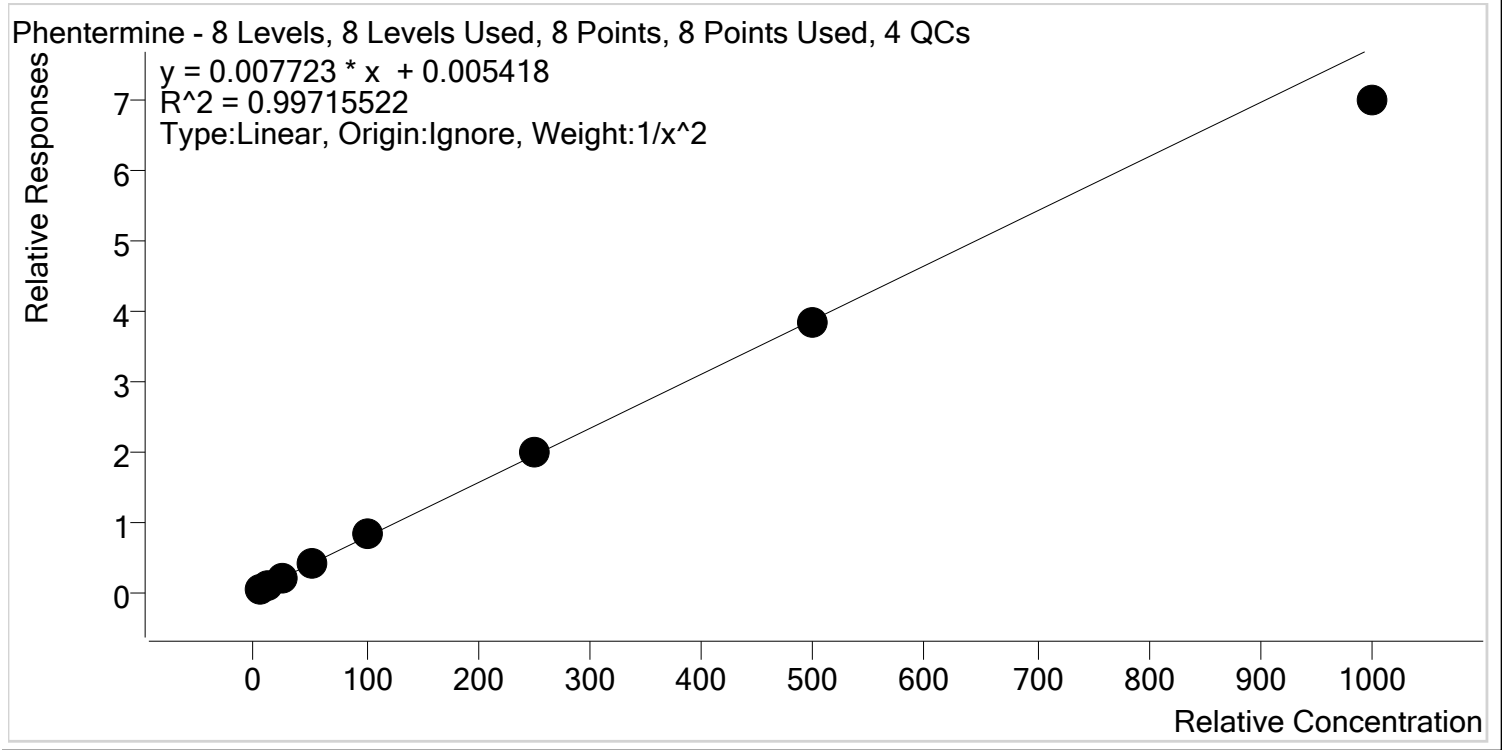


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	51.2	102.3
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	499.5	99.9
p1 Cal 8-1000ng	8	✓	1000.0	986.1	98.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

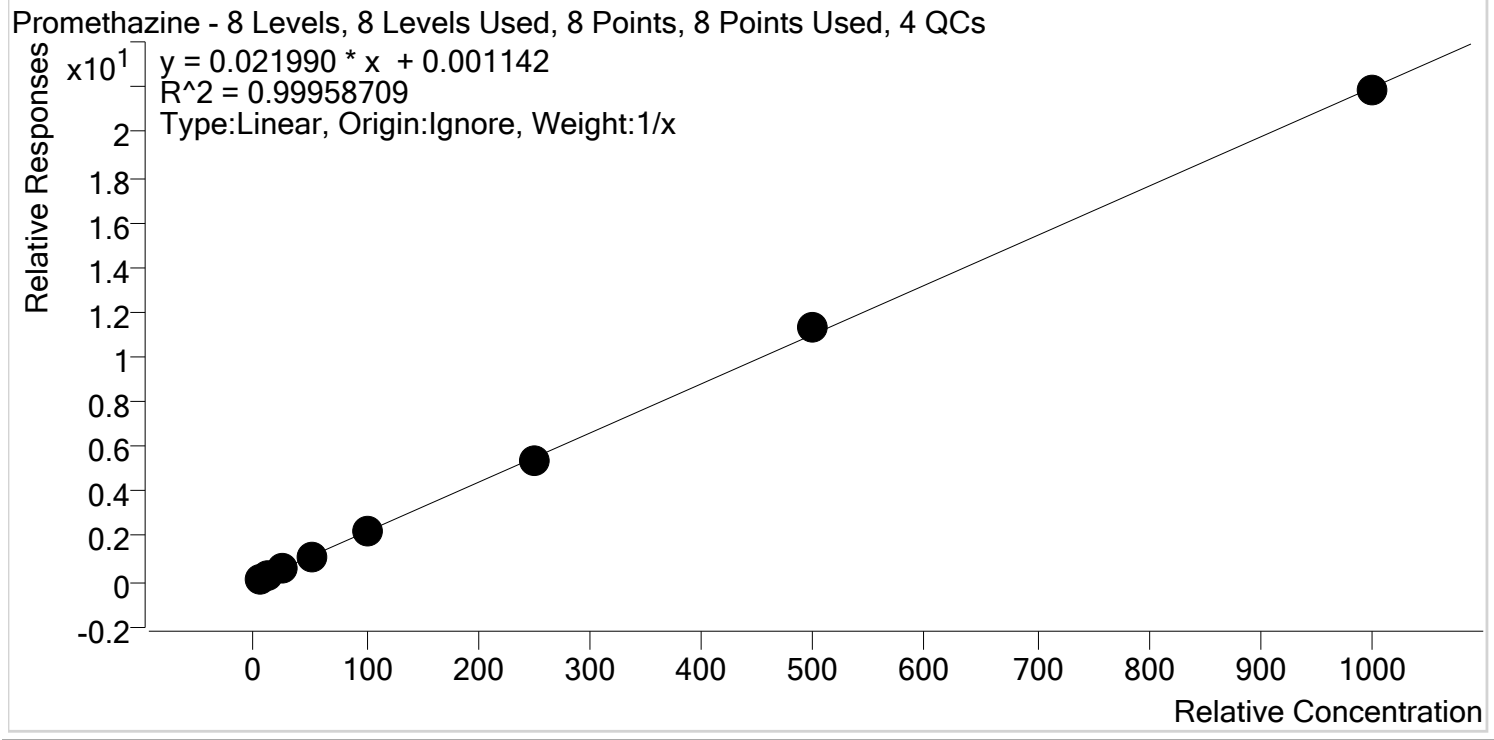


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.3
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.6
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	104.2	104.2
p1 Cal 6-250ng	6	✓	250.0	259.2	103.7
p1 Cal 7-500ng	7	✓	500.0	493.1	98.6
p1 Cal 8-1000ng	8	✓	1000.0	903.5	90.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Promethazine **Internal Standard** Promethazine-D3



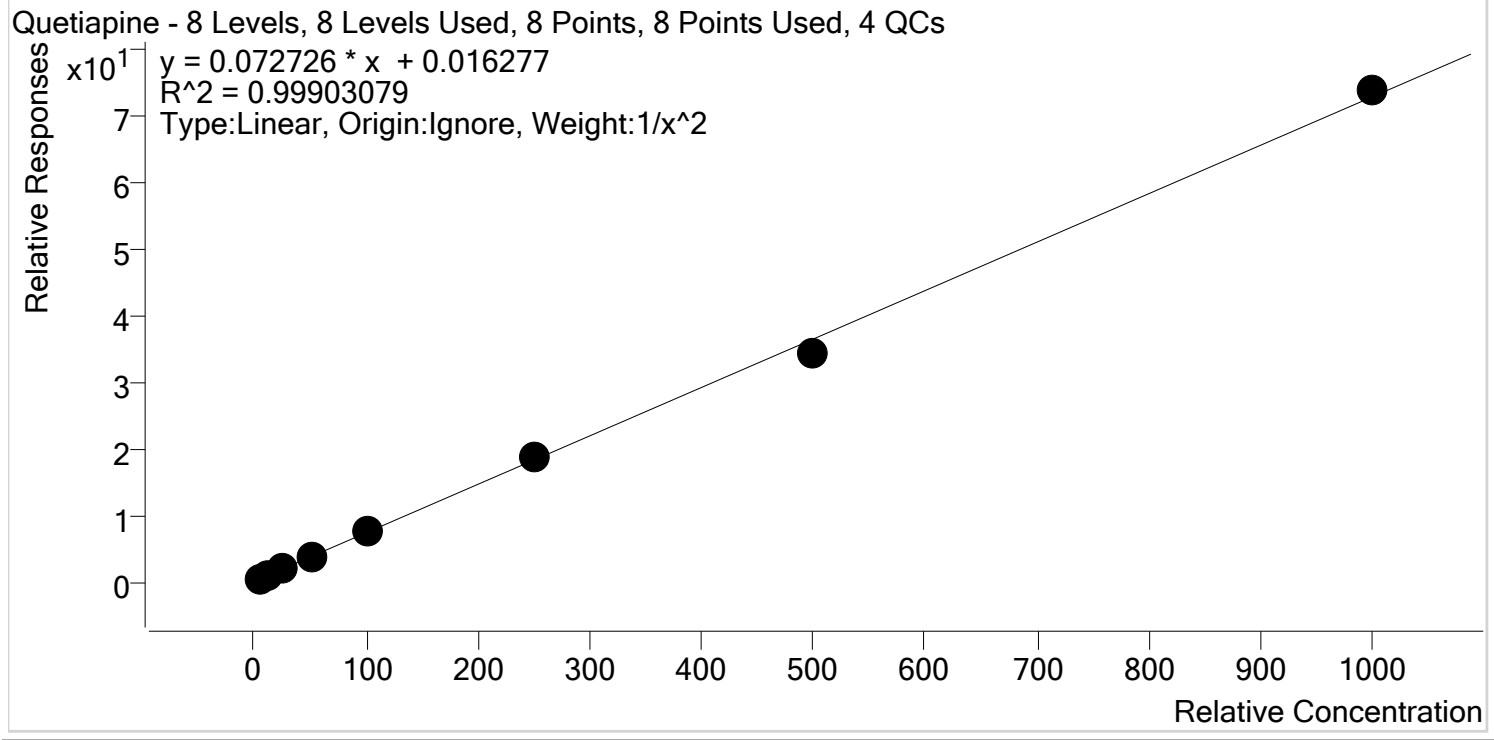
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	242.7	97.1
p1 Cal 7-500ng	7	✓	500.0	514.8	103.0
p1 Cal 8-1000ng	8	✓	1000.0	994.0	99.4

CG



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

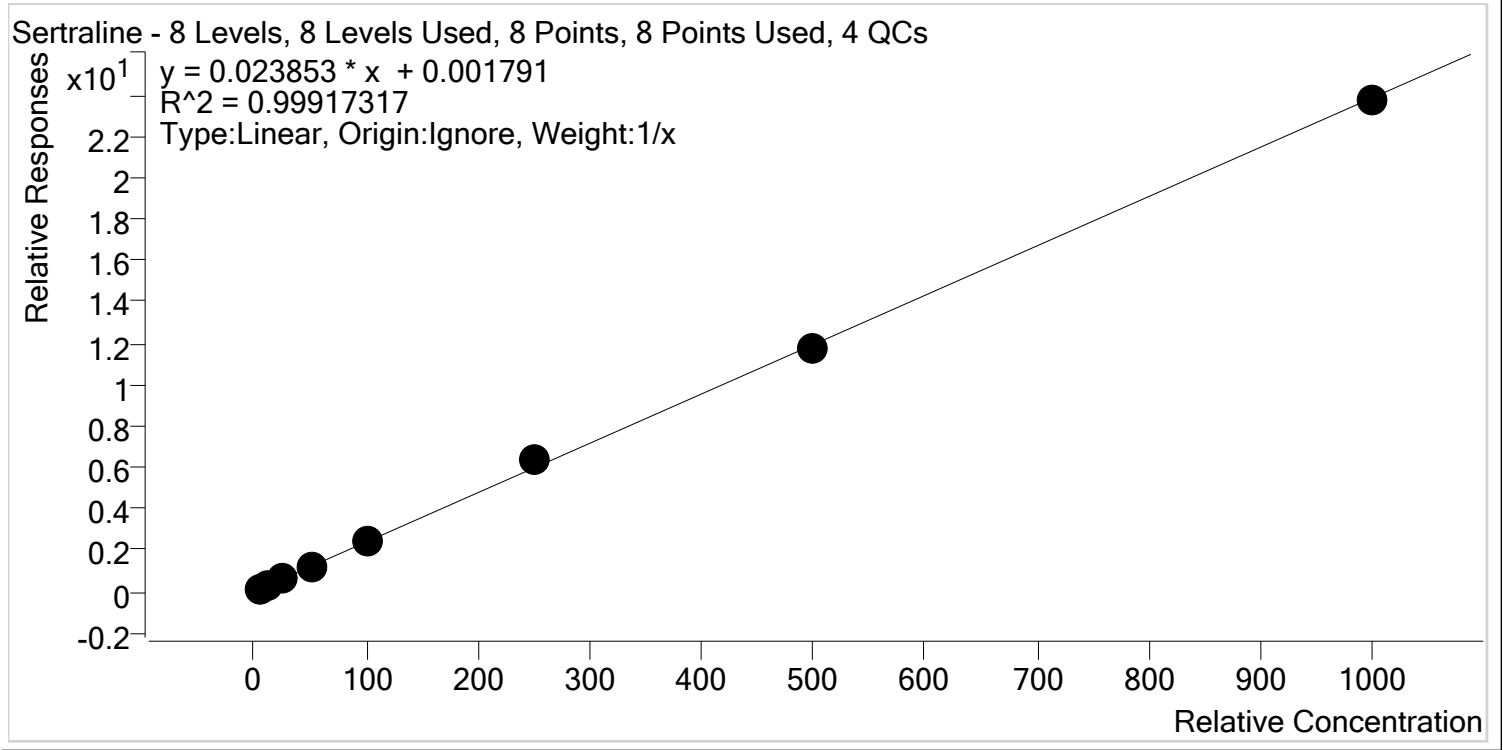


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.2
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	255.4	102.2
p1 Cal 7-500ng	7	✓	500.0	474.5	94.9
p1 Cal 8-1000ng	8	✓	1000.0	1013.0	101.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

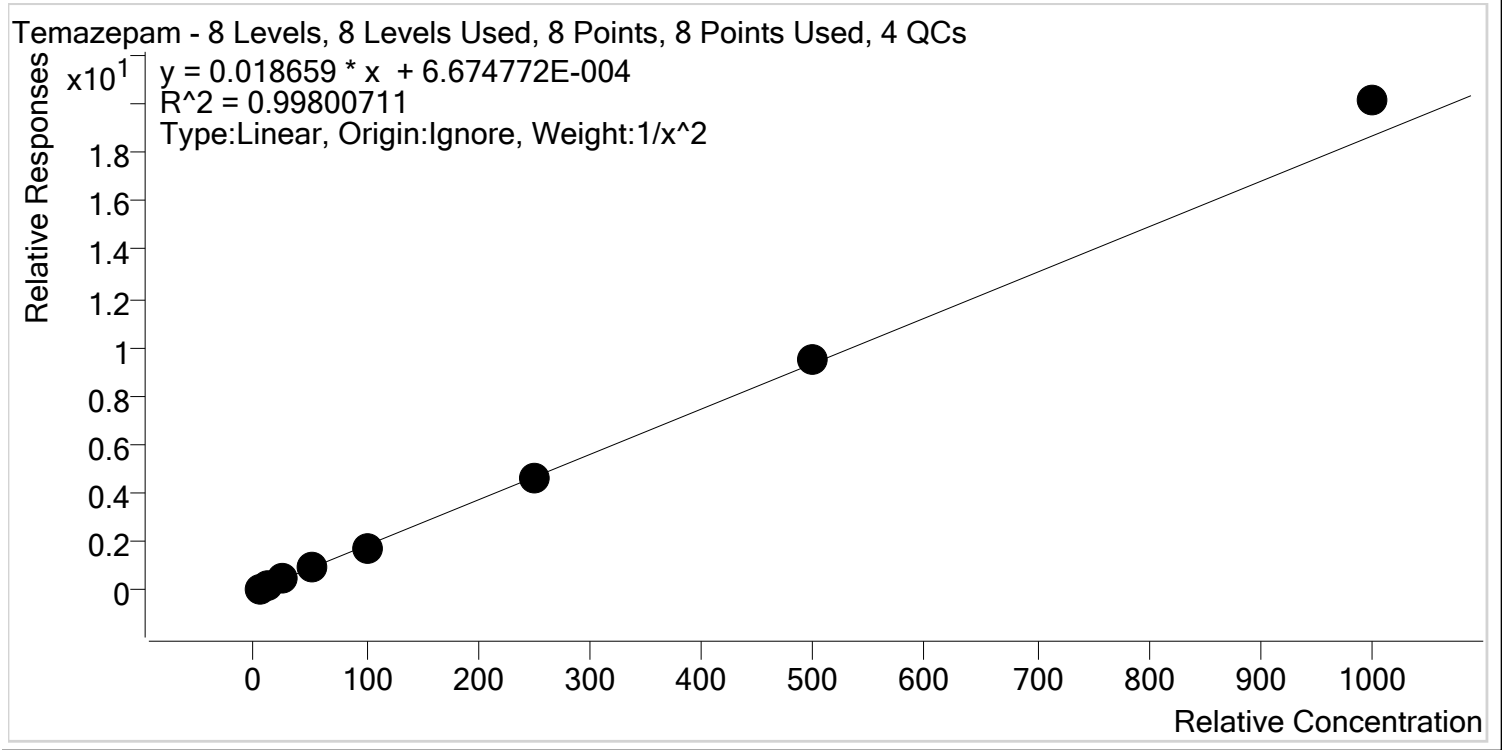


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.4	107.0
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.5
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	46.1	92.2
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	265.9	106.4
p1 Cal 7-500ng	7	✓	500.0	494.4	98.9
p1 Cal 8-1000ng	8	✓	1000.0	994.6	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

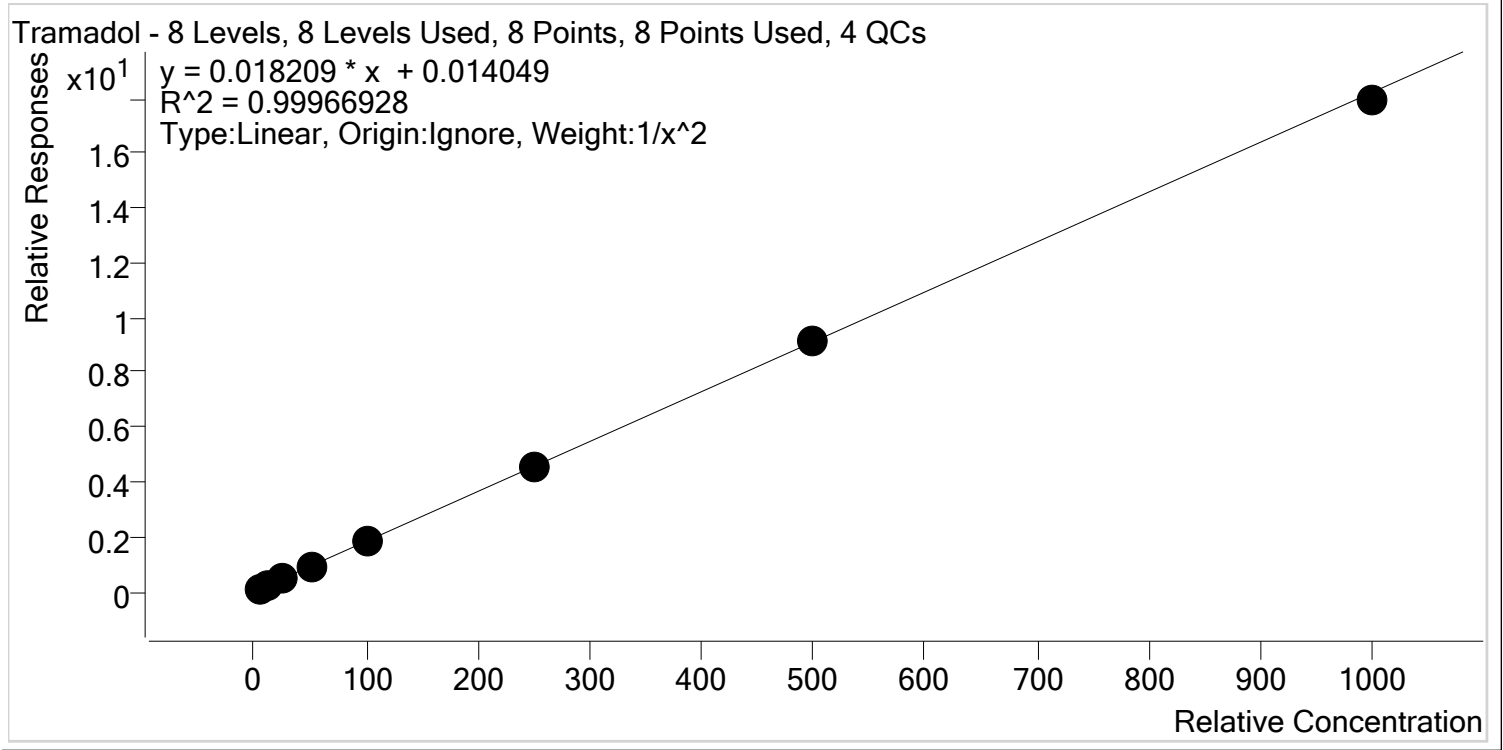


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.1	102.6
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.2
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	96.0	96.0
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	505.7	101.1
p1 Cal 8-1000ng	8	✓	1000.0	1077.6	107.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3



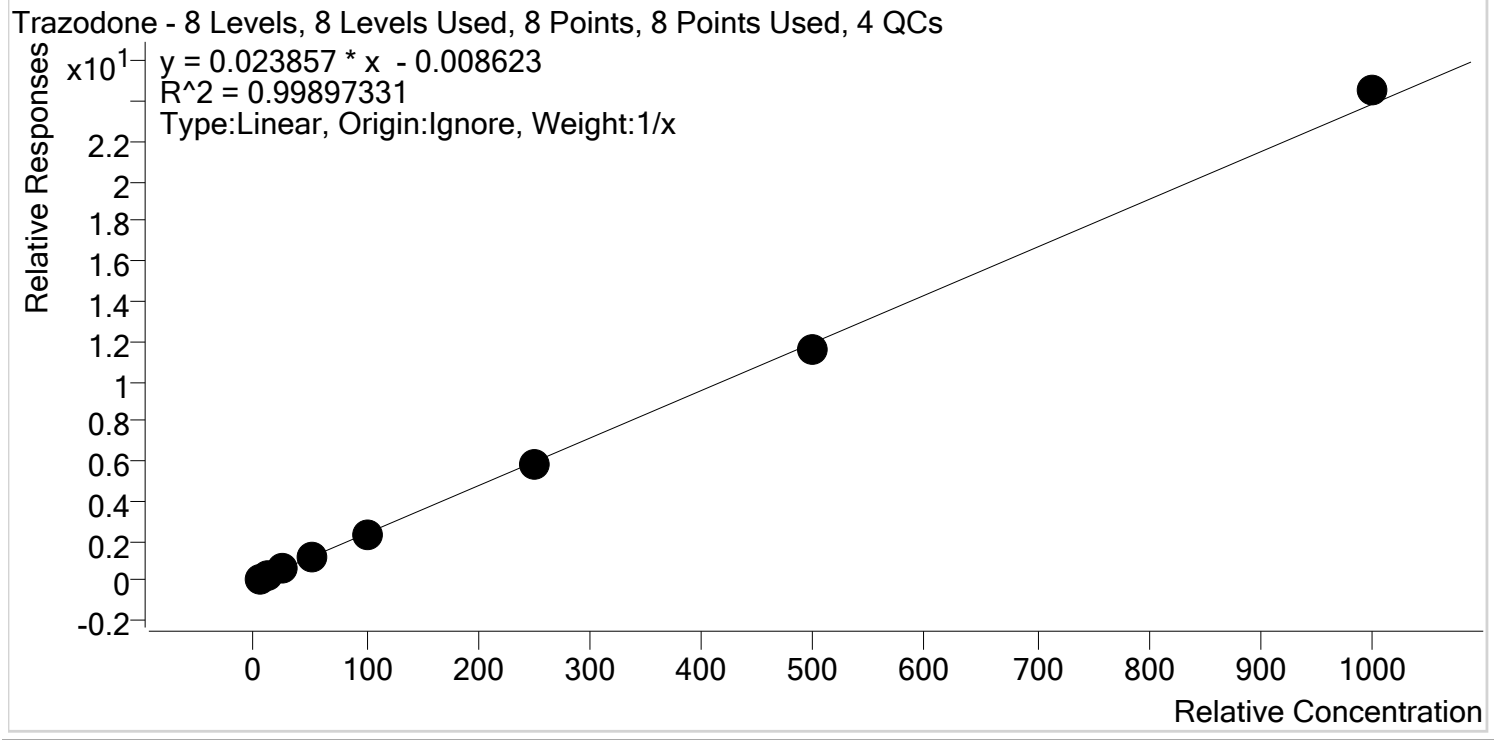
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	246.6	98.6
p1 Cal 7-500ng	7	✓	500.0	502.5	100.5
p1 Cal 8-1000ng	8	✓	1000.0	983.5	98.4

CS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

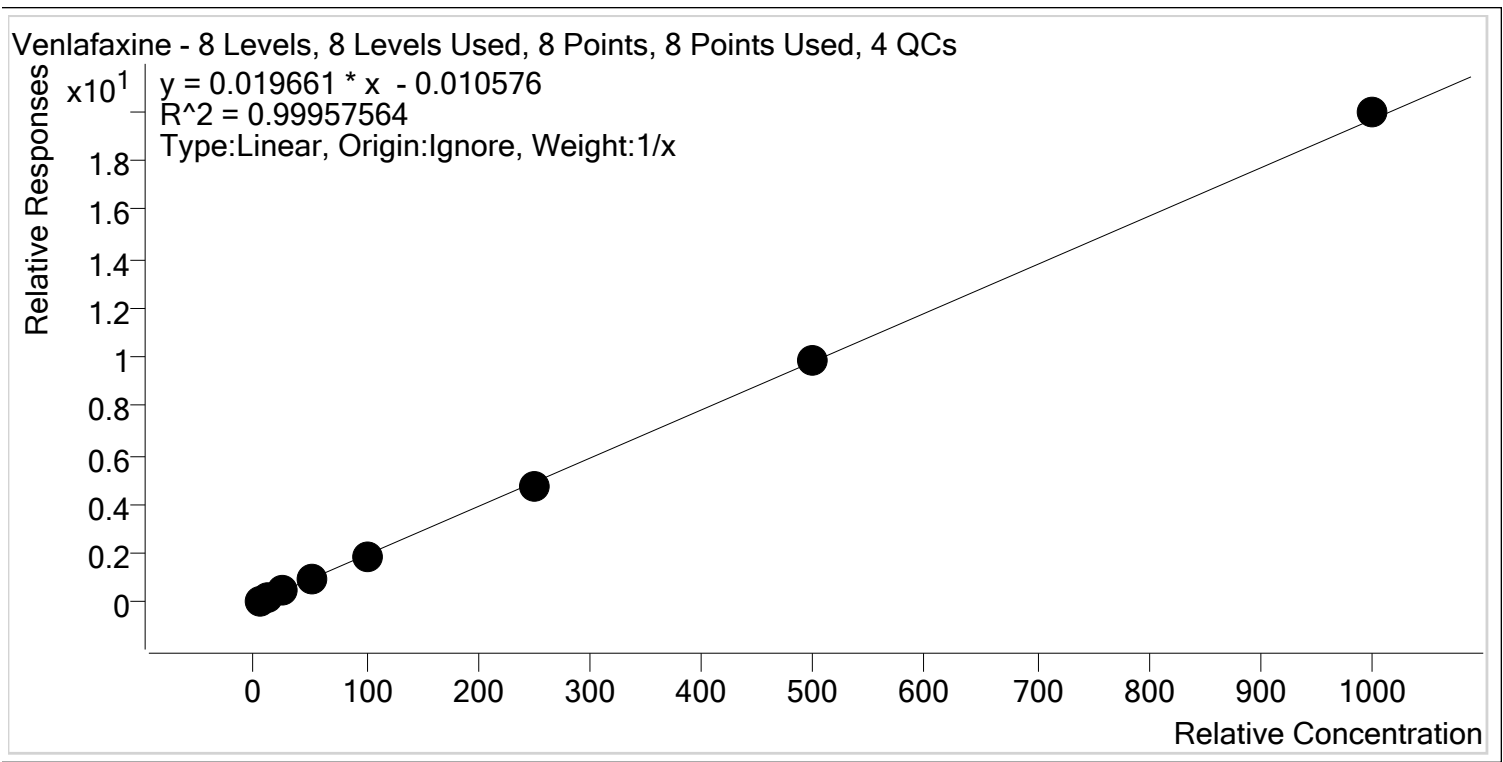


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.4	107.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	24.7	99.0
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	95.5	95.5
p1 Cal 6-250ng	6	✓	250.0	242.6	97.0
p1 Cal 7-500ng	7	✓	500.0	483.5	96.7
p1 Cal 8-1000ng	8	✓	1000.0	1028.5	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

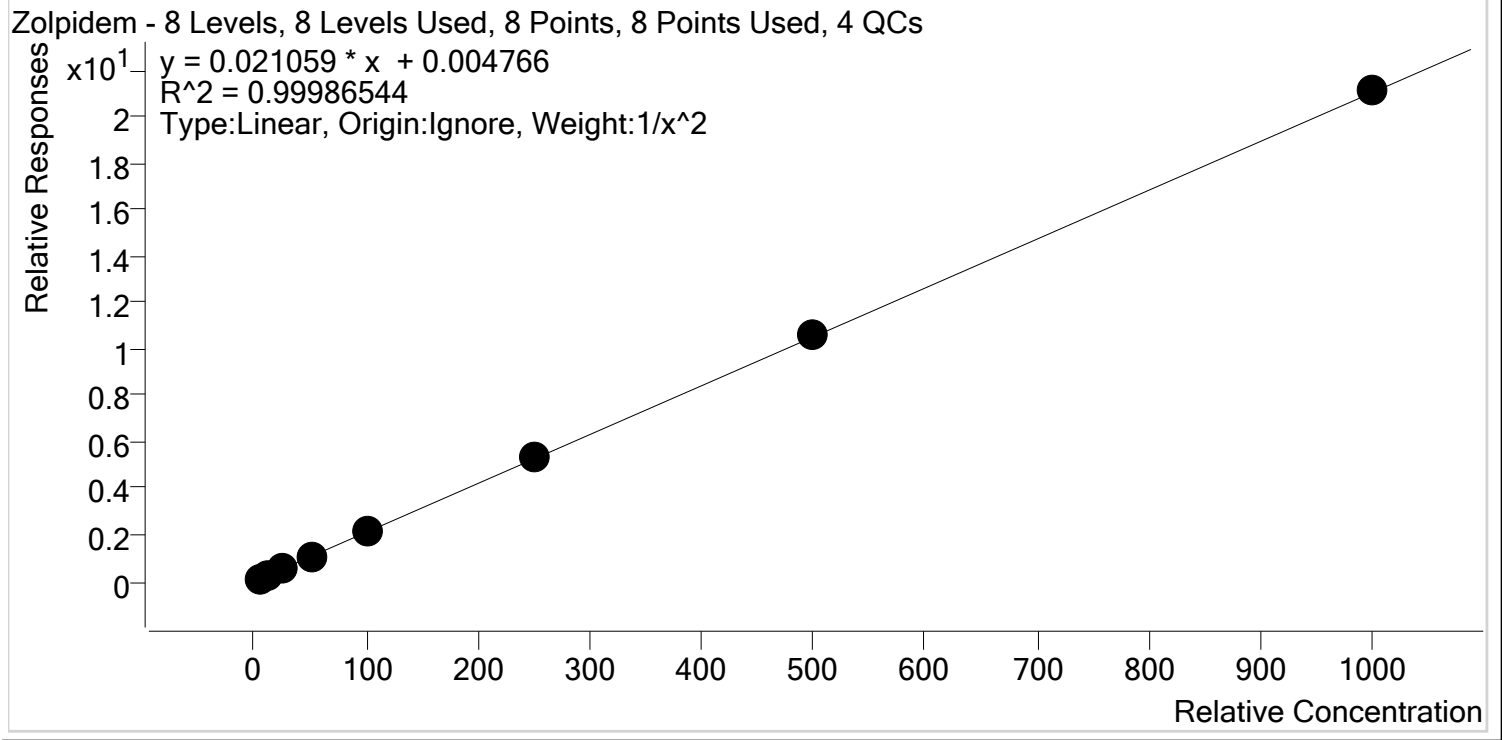


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.4	108.7
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng	5	✓	100.0	94.8	94.8
p1 Cal 6-250ng	6	✓	250.0	242.7	97.1
p1 Cal 7-500ng	7	✓	500.0	498.5	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1014.5	101.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Last Cal. Update 4/23/2020 12:48 PM
Analyst Name ISP\Datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng-r	1	✓	5.0	5.0	101.0
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	50.2	100.5
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	251.9	100.8
p1 Cal 7-500ng	7	✓	500.0	504.2	100.8
p1 Cal 8-1000ng	8	✓	1000.0	1004.2	100.4

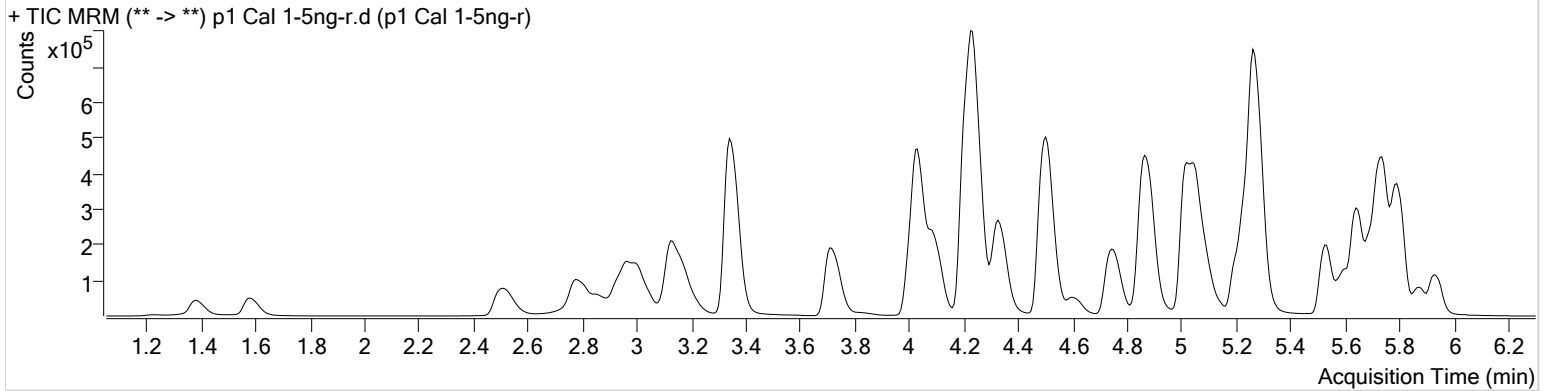
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 1-5ng-r.d
Type	Cal	Sample	p1 Cal 1-5ng-r
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-A5	Comment	
Injection Volume	2		
Acq. Date-Time	4/23/2020 7:55:33 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	1391	4972.89	78.4	5688.53	65456	0.5054 ng/ml
7-aminoclonazepam	4.231	26066	2785.32	79.0	192.74	204623	4.8691 ng/ml
a-hydroxyalprazolam	5.680	12542	278.80	65.3	371.50	60724	4.9411 ng/ml
alpha-PVP	4.337	90150	420.33	51.1	209.11	776454	5.3901 ng/ml
Alprazolam	5.756	47179	589.25	105.0	336.59	249059	5.5020 ng/ml
Amphetamine	3.014	125877	2545.14	50.1	1335.39	367248	4.5205 ng/ml
Benzoylcegonine	3.847	2861	294.14	9.6	13.37	19699	5.0247 ng/ml
Buprenorphine	5.787	2736	29.58	15.4	348.98	192360	0.5333 ng/ml
Bupropion	4.759	88776	1270.31	59.7	1142.07	613159	5.0464 ng/ml
Carisoprodol	5.705	42909	589.90	56.3	244.79	405304	5.0008 ng/ml
Citalopram	5.202	55360	711.09	41.1	1131.56	485251	5.1052 ng/ml
Clonazepam	5.593	59303	2499.47	32.0	∞	138753	4.9421 ng/ml
Cocaine	4.243	83674	21607.41	46.0	611.76	1309421	5.2767 ng/ml
Codeine	2.550	8948	163.64	103.7	44696.70	81917	4.9073 ng/ml
Cyclobenzaprine	5.617	17466	62173.22	8.4	28.81	136623	5.0596 ng/ml
Dextromethorphan	5.245	32460	854.21	69.4	870.25	283336	5.1750 ng/ml
Dextrorphan	4.100	23228	816.60	213.7	293.21	572468	5.1641 ng/ml
Diazepam	5.934	30405	265.41	89.7	389.68	284111	4.9833 ng/ml
Dihydrocodeine	2.534	22630	2855.58	65.9	113.43	246651	4.8895 ng/ml
Diphenhydramine	5.272	143079	14755.68	33.3	176.28	1879197	5.3707 ng/ml
Doxylamine	4.514	197367	6295.13	95.5	∞	1600960	5.1681 ng/ml
EDDP	5.244	46300	1512.53	42.1	273.10	485685	5.0680 ng/ml
Fentanyl	5.086	3228	210.76	65.0	4540.04	338845	0.5075 ng/ml
Fluoxetine	5.702	10264	∞	7.9	666.16	79037	4.7710 ng/ml
Hydrocodone	2.998	29966	73.98	39.5	180.68	364207	4.8299 ng/ml
Hydromorphone	1.587	21902	494.36	76.8	264.02	160079	5.0303 ng/ml
Ketamine	4.026	73952	1730.97	37.6	433.04	638984	4.9582 ng/ml
Lamotrigine	4.254	5760	173.03	81.1	578.41	638984	4.6915 ng/ml
Lorazepam	5.734	48901	634.86	53.3	513.03	138753	4.5610 ng/ml
Meprobamate	4.875	23771	2103.51	27.6	178.81	245173	4.8675 ng/ml
Methadone	5.648	74720	3477.58	54.2	2386.19	694398	5.3841 ng/ml
Methamphetamine	3.188	126893	619.63	42.4	426.05	717228	4.7146 ng/ml
Metoprolol	4.306	14275	735.20	98.1	476.51	1743737	4.9589 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	106612	4642.01	48.0	2093.43	776454	5.2174 ng/ml
Mitragynine	5.214	10207	986.90	36.8	665.67	694398	4.9709 ng/ml
Morphine	1.226	2911	1423.26	24.0	∞	6049	4.8920 ng/ml
Norbuprenorphine	4.970	328	10.80	92.8	18.11	24226	0.5150 ng/ml
Nordiazepam	5.881	28132	∞	57.9	720.20	179847	5.0198 ng/ml
Norfentanyl	4.061	13125	1327.41	39.6	58.35	1133883	0.5082 ng/ml
Norhydrocodone	3.039	2953	122.82	49.6	187.86	67124	6.4706 ng/ml
Noroxycodone	2.883	27795	432.82	51.7	∞	173919	4.9853 ng/ml
O-desmethyl-tramadol	3.348	156369	17670.42	6.0	175.98	1655021	5.0616 ng/ml
Oxazepam	5.738	54746	∞	74.5	100.91	649912	5.0423 ng/ml
Oxycodone	2.807	51908	420.08	31.3	618.66	460775	4.9954 ng/ml
Oxymorphone	1.383	21677	∞	48.2	353.98	148436	4.9496 ng/ml
Phentermine	3.745	32395	226.82	3.1	41.79	734479	5.0097 ng/ml
Promethazine	5.534	43535	367.09	31.3	118.34	390637	5.0162 ng/ml
Quetiapine	5.537	46188	356.68	59.4	1140.74	120495	5.0469 ng/ml
Sertraline	5.777	3018	102.39	102.2	102.79	23318	5.3502 ng/ml
Temazepam	5.805	87003	261.24	28.5	102.48	902632	5.1299 ng/ml
Tramadol	4.219	181392	482.86	3.3	124.68	1743737	4.9413 ng/ml
Trazodone	5.119	58131	57664.77	81.4	3752.26	484359	5.3920 ng/ml
Venlafaxine	5.020	135211	15426.63	36.6	808.16	1404921	5.4331 ng/ml
Zolpidem	4.884	152829	6843.18	29.7	5068.35	1375543	5.0496 ng/ml

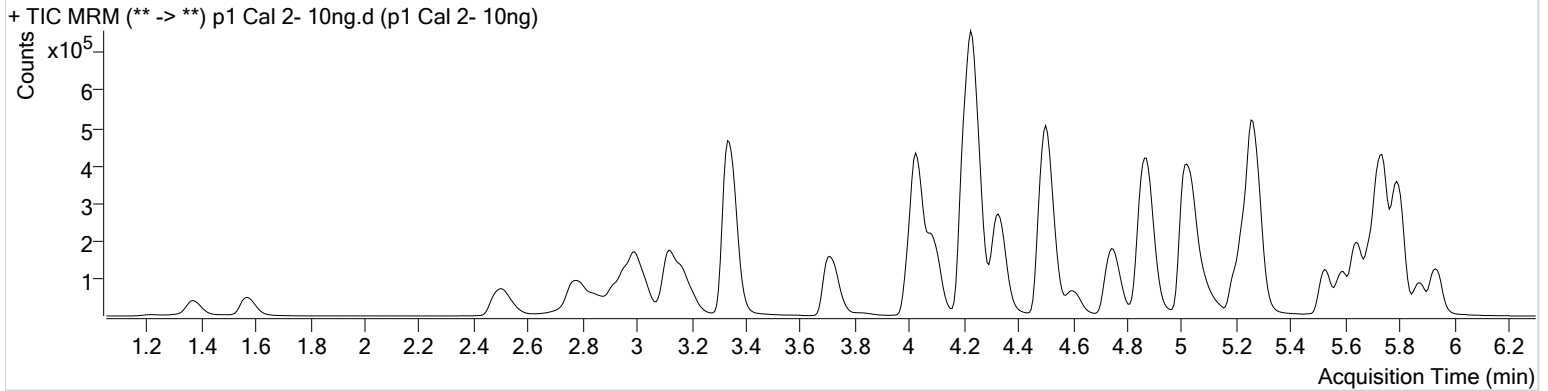
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 2- 10ng.d
Type	Cal	Sample	p1 Cal 2- 10ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-B5	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 7:16:18 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	2319	3562.57	75.0	80.87	54896	0.9868 ng/ml
7-aminoclonazepam	4.231	38770	112.10	80.7	142.51	156809	10.1778 ng/ml
a-hydroxyalprazolam	5.680	20663	238.61	61.7	315.44	48651	10.0749 ng/ml
alpha-PVP	4.337	150458	∞	51.7	1447.71	673293	10.0905 ng/ml
Alprazolam	5.756	78747	435.20	106.0	1960.00	212090	10.0936 ng/ml
Amphetamine	3.001	260430	2146.71	51.8	2253.05	285660	11.4655 ng/ml
Benzoylcegonine	3.847	4645	356.91	8.2	40.68	16814	10.2084 ng/ml
Buprenorphine	5.780	2500	24.66	17.9	75.85	105995	0.8786 ng/ml
Bupropion	4.759	136290	2256.33	59.9	262.33	486668	9.8574 ng/ml
Carisoprodol	5.705	67374	370.90	56.6	937.74	331394	9.9198 ng/ml
Citalopram	5.202	68833	705.59	39.6	1638.74	306639	10.1226 ng/ml
Clonazepam	5.593	78852	1881.57	33.4	88675.85	117440	10.0526 ng/ml
Cocaine	4.237	143736	206872.26	46.4	4748.42	1129119	10.1506 ng/ml
Codeine	2.543	15211	893.07	101.2	554.50	67646	10.3006 ng/ml
Cyclobenzaprine	5.610	15298	34377.05	8.3	27.52	59158	10.3196 ng/ml
Dextromethorphan	5.245	33722	379.59	79.2	450.84	153513	10.0599 ng/ml
Dextrorphan	4.093	37102	881.40	210.2	989.21	473028	10.1259 ng/ml
Diazepam	5.941	56023	∞	87.3	294.38	260576	10.0662 ng/ml
Dihydrocodeine	2.521	37757	3432.58	65.6	318.41	208909	10.1621 ng/ml
Diphenhydramine	5.272	162336	629.68	32.6	615.72	1134575	10.0364 ng/ml
Doxylamine	4.514	322008	19666.75	96.4	15452.08	1356253	10.0033 ng/ml
EDDP	5.244	69783	∞	42.3	968.77	386115	9.7961 ng/ml
Fentanyl	5.079	2446	73.47	69.0	185.35	135972	0.9708 ng/ml
Fluoxetine	5.702	9917	∞	8.8	3924.68	40218	9.9370 ng/ml
Hydrocodone	2.991	49828	567.25	40.1	286.24	307533	10.3171 ng/ml
Hydromorphone	1.574	35353	286.22	78.5	289.43	134028	9.9096 ng/ml
Ketamine	4.019	122263	2571.57	36.8	509.01	541471	10.0945 ng/ml
Lamotrigine	4.248	9616	386.51	76.6	432.18	541471	10.7252 ng/ml
Lorazepam	5.734	82489	1083.41	55.0	∞	117440	10.1542 ng/ml
Meprobamate	4.868	35148	520.52	27.3	129.22	190769	10.1002 ng/ml
Methadone	5.648	79571	∞	53.9	544.36	384660	10.1552 ng/ml
Methamphetamine	3.181	182061	685.57	41.5	2144.41	569379	10.8104 ng/ml
Metoprolol	4.299	22645	∞	97.8	804.61	1459432	10.0928 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	136752	7805.53	49.3	2540.56	673293	9.4247 ng/ml
Mitragynine	5.207	10907	∞	39.3	207.28	384660	10.1210 ng/ml
Morphine	1.220	4853	∞	24.4	∞	4745	10.4482 ng/ml
Norbuprenorphine	4.970	296	26.67	90.3	10.40	13671	0.9173 ng/ml
Nordiazepam	5.881	50059	423.88	57.8	655.55	162494	9.9285 ng/ml
Norfentanyl	4.053	21943	1185.99	38.7	282.46	968065	0.9866 ng/ml
Norhydrocodone	3.032	5048	939.78	45.1	47.28	52988	10.8685 ng/ml
Noroxycodone	2.876	46851	220.15	49.9	1073.23	146948	10.0546 ng/ml
O-desmethyl-tramadol	3.341	260845	5433.89	6.0	378.92	1413912	9.8854 ng/ml
Oxazepam	5.738	90435	2040.13	72.2	122.66	558799	9.8054 ng/ml
Oxycodone	2.800	86262	950.99	31.3	664.62	395155	9.9910 ng/ml
Oxymorphone	1.376	35008	519.21	48.8	684.49	121608	10.1825 ng/ml
Phentermine	3.738	47416	621.60	2.7	26.58	588492	9.7317 ng/ml
Promethazine	5.527	38935	427.52	30.9	392.57	172469	10.2144 ng/ml
Quetiapine	5.537	57748	188973.72	58.9	6802.10	79128	9.8112 ng/ml
Sertraline	5.770	4149	36.66	93.7	3585.55	17875	9.6549 ng/ml
Temazepam	5.805	141206	1447.49	29.8	232.72	783363	9.6246 ng/ml
Tramadol	4.219	290439	17957.84	3.4	291.09	1459432	10.1576 ng/ml
Trazodone	5.119	56222	10131.45	77.5	∞	239465	10.2025 ng/ml
Venlafaxine	5.020	220853	727.63	36.1	345.89	1166499	10.1679 ng/ml
Zolpidem	4.884	247095	21465.25	31.4	∞	1166482	9.8326 ng/ml

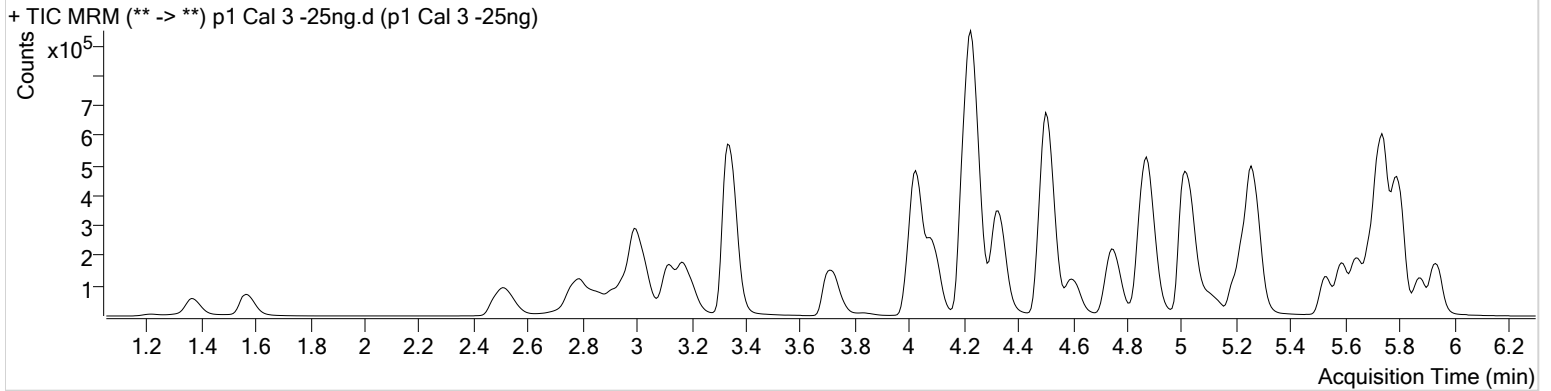
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 3 -25ng.d
Type	Cal	Sample	p1 Cal 3 -25ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-C5	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 7:26:54 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	5811	464.49	72.4	∞	55069	2.4370 ng/ml
7-aminoclonazepam	4.231	96132	806.31	78.9	3393.23	156084	26.5055 ng/ml
a-hydroxyalprazolam	5.673	51847	412.87	63.2	383.01	47410	25.8142 ng/ml
alpha-PVP	4.337	348069	1000.38	51.1	514.10	630337	24.4825 ng/ml
Alprazolam	5.756	194511	449.71	103.2	554.15	209994	24.1057 ng/ml
Amphetamine	3.001	570969	∞	51.6	∞	260183	27.1252 ng/ml
Benzoylcegonine	3.840	10425	223.07	8.5	72.01	17032	23.4926 ng/ml
Buprenorphine	5.787	4974	134.30	17.7	34.26	73864	2.4918 ng/ml
Bupropion	4.752	294304	467.57	58.9	1163.48	418582	24.9043 ng/ml
Carisoprodol	5.705	168163	873518.33	56.8	1585.45	335646	24.9496 ng/ml
Citalopram	5.195	126058	439.72	39.8	4473.63	230642	24.7612 ng/ml
Clonazepam	5.593	240336	996.05	32.9	3097.41	117349	25.3511 ng/ml
Cocaine	4.237	343916	16707.95	45.4	12239.06	1077757	24.8963 ng/ml
Codeine	2.543	36630	137.44	101.2	1182.35	67414	25.1556 ng/ml
Cyclobenzaprine	5.610	20124	7955.77	10.8	80.72	37499	21.5046 ng/ml
Dextromethorphan	5.245	58260	173.62	80.4	169.26	108866	24.7227 ng/ml
Dextrorphan	4.093	82967	5415.84	214.6	861.96	441316	24.4857 ng/ml
Diazepam	5.941	137541	615.18	86.7	1122.17	258866	24.9564 ng/ml
Dihydrocodeine	2.514	93481	1324.80	66.4	2295.19	209462	25.8967 ng/ml
Diphenhydramine	5.272	297572	318.82	33.5	3106.28	848995	24.4927 ng/ml
Doxylamine	4.508	725151	18697.78	96.7	37535.60	1248136	24.5569 ng/ml
EDDP	5.237	141565	4536.39	42.4	70213.20	314501	24.7105 ng/ml
Fentanyl	5.072	4052	175.86	60.0	∞	89206	2.4719 ng/ml
Fluoxetine	5.702	12603	1664.03	9.5	∞	21420	25.0662 ng/ml
Hydrocodone	2.985	117809	780.15	40.9	114.82	297059	26.4563 ng/ml
Hydromorphone	1.574	86340	∞	79.2	292.37	133532	24.6224 ng/ml
Ketamine	4.019	292206	1801.16	38.0	810.89	533675	25.1091 ng/ml
Lamotrigine	4.248	22242	1140.84	80.0	4329.42	533675	27.2284 ng/ml
Lorazepam	5.728	201031	∞	56.0	306.77	117349	26.3076 ng/ml
Meprobamate	4.868	87102	∞	26.4	427.50	191709	26.2928 ng/ml
Methadone	5.641	136409	5749.67	55.9	509.33	271834	24.3327 ng/ml
Methamphetamine	3.181	364380	2188.13	41.7	1765.46	533042	26.3383 ng/ml
Metoprolol	4.299	52750	5792.70	97.1	4776.51	1430355	25.0556 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	263852	3359.24	49.6	16603.88	630337	23.2018 ng/ml
Mitragynine	5.207	17787	29409.78	39.3	23191.90	271834	24.1057 ng/ml
Morphine	1.220	11861	238.97	24.9	513.35	4876	24.9084 ng/ml
Norbuprenorphine	4.963	514	22.65	82.4	24.17	9844	2.4316 ng/ml
Nordiazepam	5.881	124968	1621.92	57.8	2216.45	162457	24.8564 ng/ml
Norfentanyl	4.053	50739	4934.99	38.5	576.68	906390	2.4234 ng/ml
Norhydrocodone	3.026	11626	98.76	46.1	184.16	50060	22.6172 ng/ml
Noroxycodone	2.869	110655	1039.52	50.6	3761.61	141425	24.8350 ng/ml
O-desmethyl-tramadol	3.341	640844	1590.81	5.9	760.87	1406129	24.4241 ng/ml
Oxazepam	5.738	221858	4394.33	72.4	1342.21	546276	24.7997 ng/ml
Oxycodone	2.794	210430	970.55	32.0	1388.10	392272	25.0351 ng/ml
Oxymorphone	1.370	86044	∞	48.4	∞	124812	24.9952 ng/ml
Phentermine	3.738	112050	636.26	2.7	84.64	545326	25.9053 ng/ml
Promethazine	5.527	58389	3989.25	30.8	153.63	106614	24.8539 ng/ml
Quetiapine	5.537	110521	596.34	61.6	∞	61354	24.5455 ng/ml
Sertraline	5.770	4985	65.36	84.4	2863.01	8278	25.1693 ng/ml
Temazepam	5.805	354496	2010.92	29.2	685.05	774743	24.4863 ng/ml
Tramadol	4.219	679998	1042.75	3.3	230.44	1430355	25.3366 ng/ml
Trazodone	5.113	101846	371.49	78.2	4138.22	175093	24.7426 ng/ml
Venlafaxine	5.013	505627	2339.94	36.3	633.99	1074579	24.4709 ng/ml
Zolpidem	4.884	596264	588.44	30.4	375.07	1132708	24.7707 ng/ml

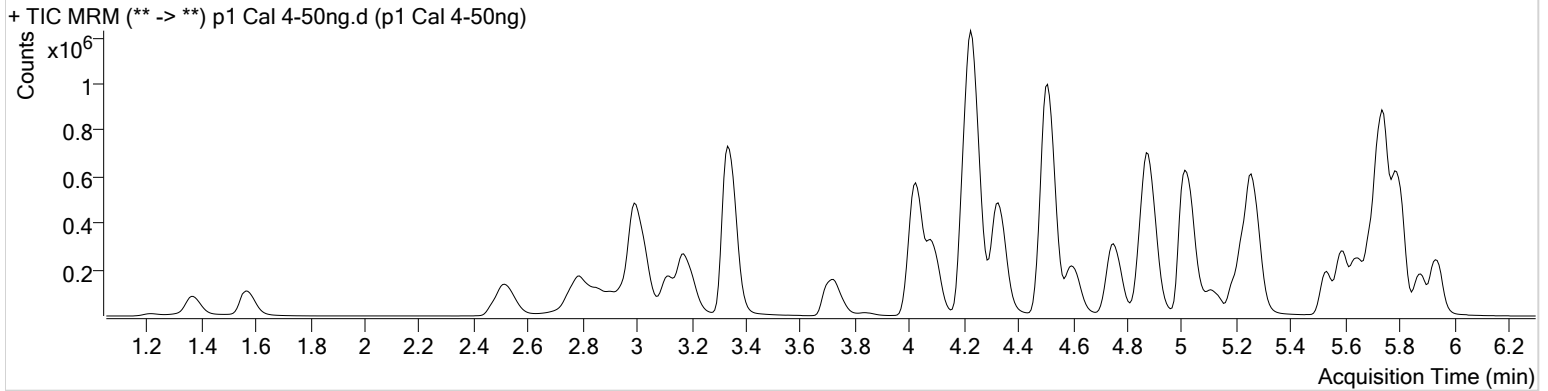
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 4-50ng.d
Type	Cal	Sample	p1 Cal 4-50ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-D5	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 7:37:28 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	11249	475.11	71.9	6177.72	51152	5.0586 ng/ml
7-aminoclonazepam	4.231	188895	7355.38	80.1	2141.88	157731	52.2680 ng/ml
a-hydroxyalprazolam	5.680	99971	754.52	63.8	865.42	45842	51.3972 ng/ml
alpha-PVP	4.337	657439	9892.85	51.5	710.81	586999	49.3414 ng/ml
Alprazolam	5.756	372068	1995.78	104.3	1180.68	193413	49.2888 ng/ml
Amphetamine	3.001	1072805	16463.27	51.1	8876.42	244584	53.8807 ng/ml
Benzoylcegonine	3.847	21007	413.36	8.3	196.97	16796	48.7598 ng/ml
Buprenorphine	5.787	8682	72.25	16.4	1132.33	66618	4.8142 ng/ml
Bupropion	4.752	529874	850.13	59.3	1934.62	371479	50.6300 ng/ml
Carisoprodol	5.705	321398	1194719.84	56.4	619.83	309883	52.0168 ng/ml
Citalopram	5.202	221870	302.96	41.0	288.17	199142	50.5580 ng/ml
Clonazepam	5.593	467395	874.78	33.5	484108.34	110039	53.0499 ng/ml
Cocaine	4.237	645724	24794.83	44.6	17790.48	1016804	49.1861 ng/ml
Codeine	2.536	70674	576.65	101.6	12019.07	63553	51.6803 ng/ml
Cyclobenzaprine	5.610	42075	212.32	10.2	138.51	33753	50.0610 ng/ml
Dextromethorphan	5.238	103874	191934.07	79.2	372.50	97867	49.1799 ng/ml
Dextrophan	4.093	157941	804.04	210.4	4178.55	409347	50.4149 ng/ml
Diazepam	5.941	256583	852.97	87.0	∞	238742	50.5362 ng/ml
Dihydrocodeine	2.514	179554	1021.37	67.2	8636.22	199438	52.7972 ng/ml
Diphenhydramine	5.266	531781	28639.45	33.0	617.70	753512	49.2515 ng/ml
Doxylamine	4.508	1387331	47073.60	96.9	27575.83	1178691	49.8049 ng/ml
EDDP	5.237	273368	439.38	42.9	3046.18	302569	49.8099 ng/ml
Fentanyl	5.072	7679	441.18	60.0	660.03	81642	5.1337 ng/ml
Fluoxetine	5.702	25232	2432.03	9.3	284.10	21222	51.6520 ng/ml
Hydrocodone	2.985	229026	∞	40.6	462.85	292520	53.0402 ng/ml
Hydromorphone	1.574	170889	∞	78.0	1024.63	128053	51.0619 ng/ml
Ketamine	4.019	556638	85809.29	37.8	2676.85	501091	51.3974 ng/ml
Lamotrigine	4.248	40635	874.56	83.5	1988.15	501091	54.4241 ng/ml
Lorazepam	5.728	372500	∞	56.7	5173.34	110039	53.0312 ng/ml
Meprobamate	4.868	168252	18225.57	26.3	2744.19	182072	54.4543 ng/ml
Methadone	5.641	244018	38182.31	56.4	715.17	241867	48.7073 ng/ml
Methamphetamine	3.181	651309	9264.10	42.3	460.75	497834	52.9997 ng/ml
Metoprolol	4.299	100611	256372.28	96.1	5020.86	1343455	51.6793 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	469260	3805.48	49.4	5094.26	586999	47.5511 ng/ml
Mitragynine	5.207	34050	65801.61	37.2	44641.89	241867	52.5236 ng/ml
Morphine	1.220	22810	465.71	23.6	3345.15	4653	50.2437 ng/ml
Norbuprenorphine	4.970	1065	33.85	72.0	841.76	8830	5.8206 ng/ml
Nordiazepam	5.881	235460	3544.24	57.0	976.97	151640	50.2184 ng/ml
Norfentanyl	4.053	97422	4503.27	37.5	503.42	865454	4.8641 ng/ml
Norhydrocodone	3.026	22104	86.11	42.0	155.32	46101	43.8231 ng/ml
Noroxycodone	2.862	217791	1612.58	49.5	3385.86	135273	51.2197 ng/ml
O-desmethyl-tramadol	3.341	1241698	∞	6.0	5557.41	1345521	49.4582 ng/ml
Oxazepam	5.738	424923	3613.57	71.7	2056.38	506707	51.3443 ng/ml
Oxycodone	2.787	405240	9715.92	32.3	1052.79	376212	50.6044 ng/ml
Oxymorphone	1.370	163117	∞	50.1	485.20	116607	51.1693 ng/ml
Phentermine	3.738	201551	1283.29	2.8	315.21	504671	51.0130 ng/ml
Promethazine	5.527	108491	1175.65	30.9	263.71	97985	50.2999 ng/ml
Quetiapine	5.537	202787	6055.44	60.7	2504.11	53903	51.5061 ng/ml
Sertraline	5.770	9505	372.91	96.1	13025.87	8632	46.0887 ng/ml
Temazepam	5.805	675023	3100.10	29.7	451.44	734560	49.2129 ng/ml
Tramadol	4.219	1268975	3393.98	3.5	902.02	1343455	51.1016 ng/ml
Trazodone	5.113	187131	27712.17	80.3	6498.60	159511	49.5354 ng/ml
Venlafaxine	5.013	956882	22640.35	35.8	4736.25	997211	49.3442 ng/ml
Zolpidem	4.884	1130025	957.77	30.3	1079.41	1063336	50.2380 ng/ml

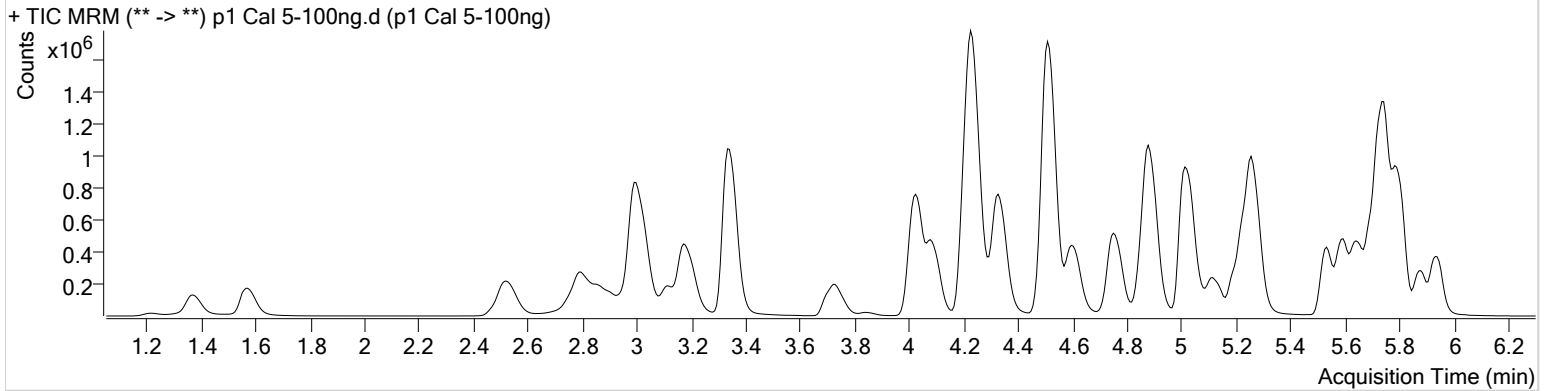
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 5-100ng.d
Type	Cal	Sample	p1 Cal 5-100ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-E5	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 7:48:04 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	21529	1108.32	72.9	900.98	50150	9.8578 ng/ml
7-aminoclonazepam	4.231	345259	4917.91	81.1	4040.33	148570	102.1521 ng/ml
a-hydroxyalprazolam	5.673	178191	417.73	64.3	885.44	42946	97.7152 ng/ml
alpha-PVP	4.337	1237480	2522.14	51.4	919.18	566592	95.9272 ng/ml
Alprazolam	5.756	670603	2332.26	102.4	2807.20	179368	95.1136 ng/ml
Amphetamine	3.001	1960010	25141.35	51.1	∞	237215	101.2006 ng/ml
Benzoylcegonine	3.840	39696	1233.91	8.0	414.99	16002	97.4173 ng/ml
Buprenorphine	5.794	18577	196.41	16.1	1362.70	73299	9.3534 ng/ml
Bupropion	4.759	1020991	63692.50	59.1	13746.37	366101	99.0884 ng/ml
Carisoprodol	5.705	580904	47686.32	55.2	539.61	290063	100.7608 ng/ml
Citalopram	5.195	475069	876.72	41.0	1534.98	222816	96.8261 ng/ml
Clonazepam	5.593	836304	1554.69	33.9	∞	104715	100.1356 ng/ml
Cocaine	4.237	1200462	127736.45	45.7	51983.38	963457	96.1545 ng/ml
Codeine	2.536	131087	10489.51	102.3	6408.50	62220	98.0781 ng/ml
Cyclobenzaprine	5.610	142383	∞	9.4	∞	58966	97.0488 ng/ml
Dextromethorphan	5.245	230980	386.77	78.7	1402.32	108181	99.0837 ng/ml
Dextrorphan	4.086	296109	1046.35	210.5	16293.50	397025	97.5951 ng/ml
Diazepam	5.941	469669	19647.46	87.4	566.08	224278	98.5226 ng/ml
Dihydrocodeine	2.514	341007	8952.41	66.7	2148.11	194173	103.5106 ng/ml
Diphenhydramine	5.272	1117073	1564.37	33.3	6377.24	809184	96.2795 ng/ml
Doxylamine	4.514	2736767	311496.00	96.6	169008.93	1190275	97.3449 ng/ml
EDDP	5.237	561320	7573.29	42.6	2072.53	316261	98.0517 ng/ml
Fentanyl	5.072	19682	1154.36	60.1	14717.90	109555	9.8178 ng/ml
Fluoxetine	5.702	115594	652.86	8.6	4938.61	50624	100.0934 ng/ml
Hydrocodone	2.985	414503	265.69	41.6	∞	274057	103.2365 ng/ml
Hydromorphone	1.574	320883	1255.56	79.1	987.55	125324	98.1781 ng/ml
Ketamine	4.019	1051272	77167.55	38.0	5020.15	487204	100.2536 ng/ml
Lamotrigine	4.248	73331	1255.17	81.7	2192.21	487204	102.3245 ng/ml
Lorazepam	5.728	635648	1595.72	56.0	1086.53	104715	95.9460 ng/ml
Meprobamate	4.868	305861	15812.98	26.2	4166.08	172723	105.2148 ng/ml
Methadone	5.641	558414	1046.63	56.6	3023.94	279538	96.2338 ng/ml
Methamphetamine	3.181	1202957	2232.21	42.2	1125.14	492953	101.3128 ng/ml
Metoprolol	4.299	187189	10279.47	96.4	5114.29	1301951	99.9281 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.602	972742	4463.35	49.9	14493.44	566592	106.2072 ng/ml
Mitragynine	5.207	77772	5350.00	37.8	189125.92	279538	104.3593 ng/ml
Morphine	1.220	43507	1291.81	24.2	215.90	4559	97.8533 ng/ml
Norbuprenorphine	4.976	1984	83.94	75.8	412.88	9623	10.0554 ng/ml
Nordiazepam	5.881	435421	1849.89	55.7	∞	140772	100.0782 ng/ml
Norfentanyl	4.053	185678	5256.31	37.6	743.51	822318	9.7478 ng/ml
Norhydrocodone	3.032	40890	409.31	43.8	75.49	42160	85.8870 ng/ml
Noroxycodone	2.862	397665	4576.64	50.6	1380.58	129610	97.7077 ng/ml
O-desmethyl-tramadol	3.341	2362342	∞	6.0	1407.01	1301671	97.2667 ng/ml
Oxazepam	5.738	739118	∞	70.7	11420.30	453130	99.9900 ng/ml
Oxycodone	2.794	774095	2948.85	32.2	1359.28	366449	99.5594 ng/ml
Oxymorphone	1.370	302167	1397.32	49.2	1001.75	114535	96.8922 ng/ml
Phentermine	3.738	398625	1486.31	2.7	692.94	492186	104.1737 ng/ml
Promethazine	5.527	349815	482.87	31.4	2076.78	162153	98.0540 ng/ml
Quetiapine	5.537	440303	2012.80	60.5	2708.62	59589	101.3769 ng/ml
Sertraline	5.770	53882	1271.59	91.3	504.11	22824	98.8928 ng/ml
Temazepam	5.805	1240257	1666.00	30.1	359.28	692334	95.9704 ng/ml
Tramadol	4.213	2354589	54945.90	3.4	991.39	1301951	98.5477 ng/ml
Trazodone	5.113	445546	6663.48	79.7	19865.21	196273	95.5117 ng/ml
Venlafaxine	5.013	1796207	6127.97	36.1	2198.42	968822	94.8391 ng/ml
Zolpidem	4.884	2131170	1052.70	30.3	907.15	1018773	99.1100 ng/ml

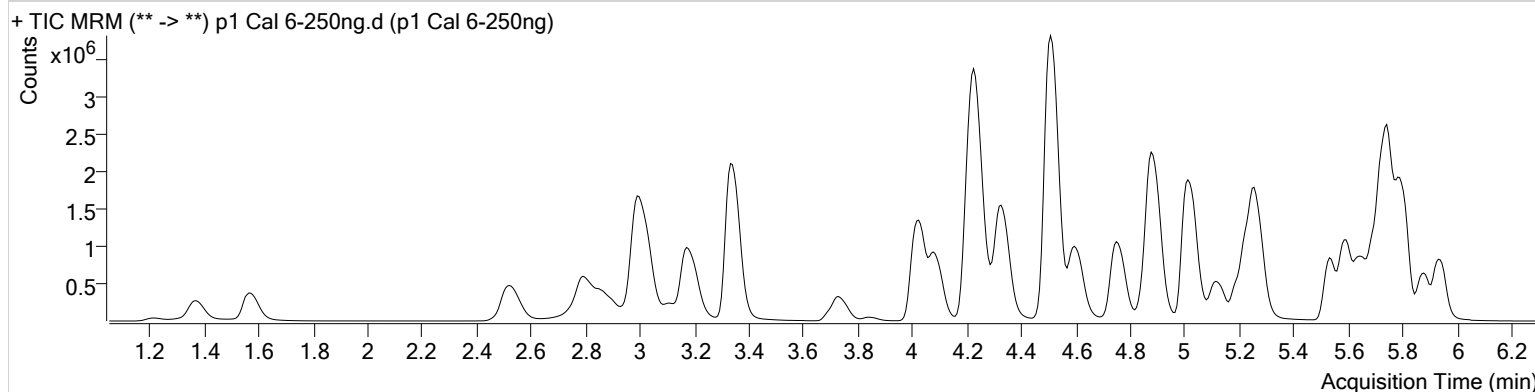
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 6-250ng.d
Type	Cal	Sample	p1 Cal 6-250ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-F5	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 7:58:38 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	56684	3115.94	70.1	20408.12	51522	25.2339 ng/ml
7-aminoclonazepam	4.231	803063	7926.33	81.1	5767.21	138229	256.5389 ng/ml
a-hydroxyalprazolam	5.673	433935	1378.08	63.4	3440.38	40459	252.4567 ng/ml
alpha-PVP	4.337	2956516	2165.74	51.3	72006.53	530502	244.2990 ng/ml
Alprazolam	5.756	1618145	13535.83	102.2	∞	166922	245.4741 ng/ml
Amphetamine	3.001	4348312	16645.16	49.4	71039.73	223289	238.0617 ng/ml
Benzoylcegonine	3.840	105748	1978.22	7.6	1260.19	16754	248.9789 ng/ml
Buprenorphine	5.787	40377	695.16	15.8	188.50	57063	26.0983 ng/ml
Bupropion	4.752	2339112	53587.85	59.1	9653.07	331905	250.5605 ng/ml
Carisoprodol	5.705	1358518	175490.82	55.4	3565.04	273290	250.6144 ng/ml
Citalopram	5.195	1042743	1219.04	40.5	7142.46	190891	248.1944 ng/ml
Clonazepam	5.593	2145570	∞	33.2	2363.27	104495	258.1339 ng/ml
Cocaine	4.237	2819051	158835.53	45.1	60740.72	881066	246.3444 ng/ml
Codeine	2.536	315914	365.61	101.3	18047.59	58908	249.9443 ng/ml
Cyclobenzaprine	5.610	288195	138.86	9.3	3875.13	44650	259.5556 ng/ml
Dextromethorphan	5.238	482415	21745.95	79.1	1123.94	90116	248.6528 ng/ml
Dextrorphan	4.086	722811	68731.67	211.2	31939.74	380695	248.6894 ng/ml
Diazepam	5.941	1215042	4529.85	87.4	2448.49	227885	250.9290 ng/ml
Dihydrocodeine	2.514	842992	33805.52	67.1	2255.95	197516	252.3369 ng/ml
Diphenhydramine	5.272	2482056	1311.16	33.0	19988.23	702753	246.2251 ng/ml
Doxylamine	4.508	6804193	158360.63	96.3	507067.70	1148416	250.9273 ng/ml
EDDP	5.237	1422279	94446.90	42.7	∞	314910	249.8343 ng/ml
Fentanyl	5.072	39941	1036.92	62.7	∞	87994	24.8263 ng/ml
Fluoxetine	5.702	223001	10499.64	8.7	559.28	39344	249.9096 ng/ml
Hydrocodone	2.978	976698	1472.74	39.7	∞	269340	248.6793 ng/ml
Hydromorphone	1.574	800399	1051.61	78.3	1020.84	121509	252.9390 ng/ml
Ketamine	4.019	2602217	1554.19	37.7	1815.28	483131	250.9125 ng/ml
Lamotrigine	4.248	171147	2318.53	80.0	∞	483131	242.8964 ng/ml
Lorazepam	5.728	1288600	∞	56.7	∞	104495	196.0189 ng/ml
Meprobamate	4.868	709261	816.96	25.9	9627.66	162311	261.0204 ng/ml
Methadone	5.641	1196927	42933.63	55.0	704.31	234875	245.1662 ng/ml
Methamphetamine	3.175	2857919	2718.65	42.3	1429.31	477502	252.6019 ng/ml
Metoprolol	4.299	450818	9380.13	96.9	∞	1276732	246.5442 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	2255040	56629.54	49.2	4939.76	530502	268.2193 ng/ml
Mitragynine	5.207	151672	16119.28	38.8	13216.13	234875	242.9800 ng/ml
Morphine	1.213	109223	768.49	24.2	676.71	4310	259.9175 ng/ml
Norbuprenorphine	4.970	4450	113.31	76.7	184.51	8440	25.9611 ng/ml
Nordiazepam	5.881	1114935	1731.46	56.5	2747.55	141681	254.6830 ng/ml
Norfentanyl	4.053	452772	3186.53	37.2	3902.49	783259	24.9411 ng/ml
Norhydrocodone	3.032	89824	233.81	42.8	88.16	33530	232.4851 ng/ml
Noroxycodone	2.862	957492	4062.02	49.3	4744.75	120259	253.7260 ng/ml
O-desmethyl-tramadol	3.343	6119253	56478.63	5.9	6025.42	1304593	251.3924 ng/ml
Oxazepam	5.738	1621254	∞	71.8	∞	393987	252.4465 ng/ml
Oxycodone	2.787	1962957	∞	31.9	1968.41	368076	251.8533 ng/ml
Oxymorphone	1.370	748201	∞	49.8	∞	108623	253.6796 ng/ml
Phentermine	3.738	950303	8971.87	2.7	1199.56	473419	259.2268 ng/ml
Promethazine	5.527	712329	1255.46	31.1	1512.60	133418	242.7475 ng/ml
Quetiapine	5.537	1035503	880.92	60.5	3244.74	55692	255.4391 ng/ml
Sertraline	5.777	122348	1003.14	81.6	124.32	19282	265.9353 ng/ml
Temazepam	5.803	3174260	6048.73	29.5	1062.89	680936	249.7913 ng/ml
Tramadol	4.213	5751216	3430.28	3.3	4681.48	1276732	246.6129 ng/ml
Trazodone	5.119	1064959	94015.94	79.7	∞	184310	242.5544 ng/ml
Venlafaxine	5.013	4499973	104669.37	36.1	2399.57	944985	242.7465 ng/ml
Zolpidem	4.888	5427649	228697.57	30.3	40224.41	1022214	251.9111 ng/ml

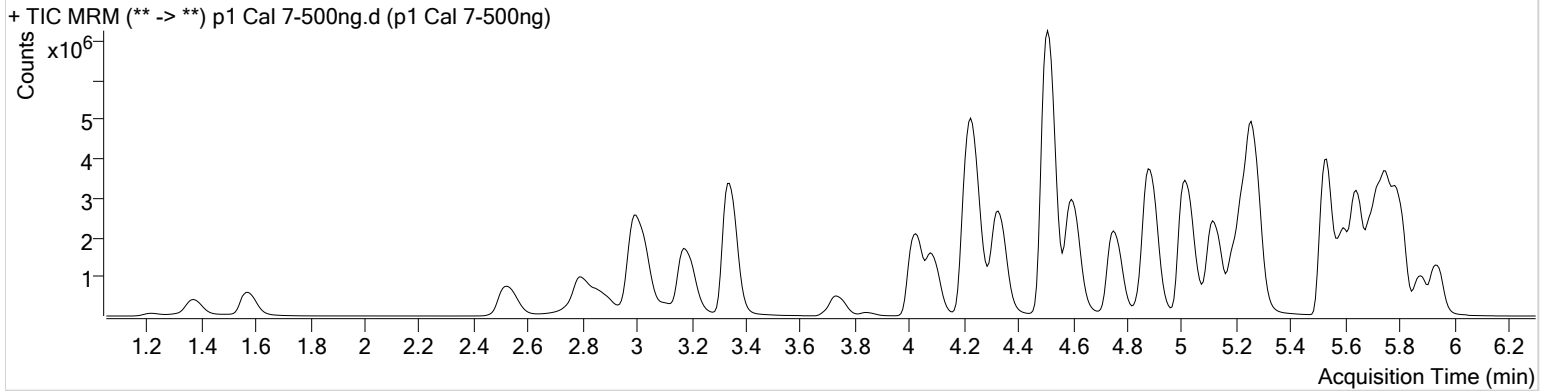
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2020\AM 27-28\AM 27-28 042220 CS\QuantResults\AM 28.batch.bin
Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 7-500ng.d
Type	Cal	Sample	p1 Cal 7-500ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-G5	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 8:09:14 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	105275	4323.82	68.9	2075.90	47775	50.5233 ng/ml
7-aminoclonazepam	4.231	1143885	21830.95	81.1	7029.98	104747	482.8958 ng/ml
a-hydroxyalprazolam	5.673	615481	637.75	63.3	1064.34	29615	489.1280 ng/ml
alpha-PVP	4.336	5490478	207024.60	50.6	5078.48	481178	499.8664 ng/ml
Alprazolam	5.756	2491930	2523.89	101.9	2320.09	126833	496.7758 ng/ml
Amphetamine	3.001	7108822	∞	49.9	∞	211192	411.2418 ng/ml
Benzoylcegonine	3.840	189422	19737.49	7.8	3170.02	14626	511.6346 ng/ml
Buprenorphine	5.787	158578	1096.08	16.5	528.97	113188	51.6654 ng/ml
Bupropion	4.752	4949254	145186.60	58.7	18898.49	349780	503.1653 ng/ml
Carisoprodol	5.705	1851202	271164.60	54.2	6076.70	187016	499.3858 ng/ml
Citalopram	5.195	3297498	2570.97	40.8	1397.46	299927	499.6206 ng/ml
Clonazepam	5.586	3091047	64949.73	33.4	164561.52	80407	483.6774 ng/ml
Cocaine	4.237	4747748	147321.76	44.8	55853.98	737762	495.1045 ng/ml
Codeine	2.536	534617	762.44	100.0	180.31	49533	503.2208 ng/ml
Cyclobenzaprine	5.610	2287532	96477.26	9.4	364.27	176171	522.2343 ng/ml
Dextromethorphan	5.238	1786643	731.22	79.4	1617.11	166711	497.9415 ng/ml
Dextrorphan	4.086	1387300	46719.76	212.9	11652.45	368972	492.6287 ng/ml
Diazepam	5.941	2045924	2327.35	87.2	1206.73	193241	498.3244 ng/ml
Dihydrocodeine	2.514	1460387	39650.73	65.9	27964.22	174944	494.0684 ng/ml
Diphenhydramine	5.272	8151673	1990.55	32.7	45272.81	1133158	501.4438 ng/ml
Doxylamine	4.508	13344848	368825.52	96.3	440448.21	1111950	508.3308 ng/ml
EDDP	5.237	3471379	2517.71	42.6	1623.50	379059	506.7971 ng/ml
Fentanyl	5.072	281776	431.30	64.4	∞	304941	50.5541 ng/ml
Fluoxetine	5.702	2379185	1252.75	8.6	240338.75	203207	517.2720 ng/ml
Hydrocodone	2.978	1596165	∞	40.5	521.77	235844	464.8420 ng/ml
Hydromorphone	1.574	1364066	1077.26	78.9	878.35	104589	501.0292 ng/ml
Ketamine	4.025	4575991	120912.08	37.5	3650.84	429307	496.9819 ng/ml
Lamotrigine	4.254	255034	4439.79	79.6	6543.87	429307	408.3661 ng/ml
Lorazepam	5.728	1487514	1238.96	57.1	8736.11	80407	294.6013 ng/ml
Meprobamate	4.861	1025476	522.74	26.1	14050.38	126517	484.9730 ng/ml
Methadone	5.641	5048469	∞	53.9	3669.59	478658	507.1907 ng/ml
Methamphetamine	3.175	5213518	22001.16	42.3	1886.23	460838	479.9932 ng/ml
Metoprolol	4.299	791602	13482.17	97.2	11190.12	1065189	519.7445 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	7039455	241879.43	48.6	152330.70	481178	931.8123 ng/ml
Mitragynine	5.207	692295	33527.52	38.9	30775.09	478658	544.9247 ng/ml
Morphine	1.220	193030	1638.22	25.5	1498.68	4025	491.9756 ng/ml
Norbuprenorphine	4.963	16724	820.98	80.2	302.55	16754	49.2860 ng/ml
Nordiazepam	5.881	1850440	6172.91	57.3	2920.98	119898	499.5262 ng/ml
Norfentanyl	4.053	802987	61732.38	37.3	743.39	684982	50.5700 ng/ml
Norhydrocodone	3.032	156277	566.97	40.9	152.25	26360	511.2163 ng/ml
Noroxycodone	2.869	1573250	6076.29	49.6	908.97	100305	499.9369 ng/ml
O-desmethyl-tramadol	3.343	10796990	81212.10	5.8	24599.27	1136078	509.3608 ng/ml
Oxazepam	5.731	2117233	7540.48	69.3	∞	255578	508.3434 ng/ml
Oxycodone	2.787	3523110	∞	31.8	∞	331311	502.5164 ng/ml
Oxymorphone	1.370	1254594	∞	48.4	6134.83	92589	499.4594 ng/ml
Phentermine	3.738	1750184	∞	2.7	3141.74	458939	493.1164 ng/ml
Promethazine	5.527	5979550	∞	30.3	1804.31	528137	514.8249 ng/ml
Quetiapine	5.537	3116669	43655.57	61.1	30686.06	90274	474.5005 ng/ml
Sertraline	5.770	1178247	33571.94	90.0	100393.20	99903	494.3583 ng/ml
Temazepam	5.804	5149372	76894.84	29.3	∞	545685	505.6901 ng/ml
Tramadol	4.220	9761944	173533.37	3.3	890.88	1065189	502.5230 ng/ml
Trazodone	5.113	5049010	19406.41	79.6	4017.63	437995	483.5480 ng/ml
Venlafaxine	5.013	8919596	201108.40	34.9	1958.07	911069	498.5028 ng/ml
Zolpidem	4.887	9833224	390645.39	29.9	6667.53	925760	504.1618 ng/ml

AM #28 Multi-Drug Quant. Results

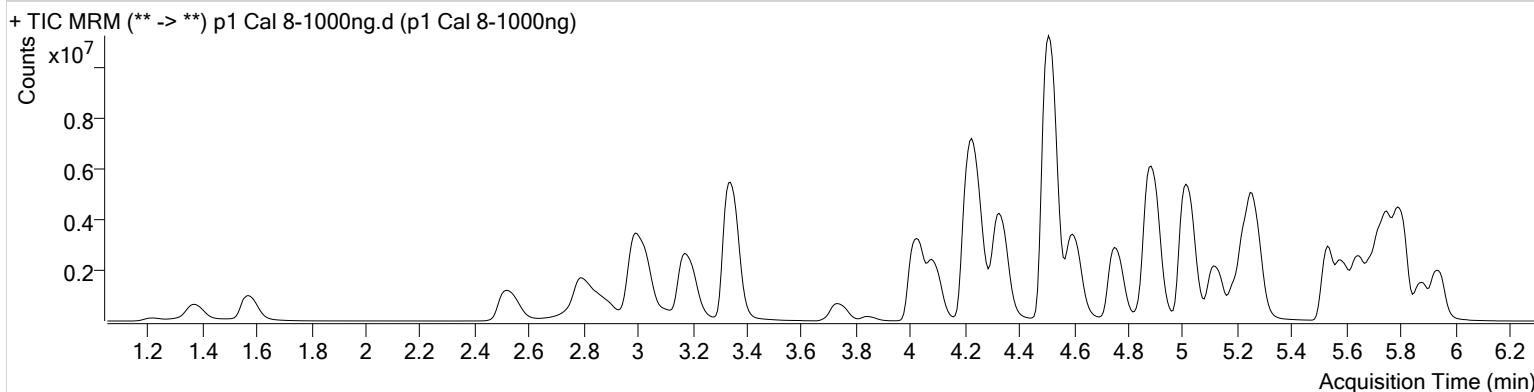


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Calibration Last Update 4/23/2020 12:48:19 PM

Instrument	Falco	Data File	p1 Cal 8-1000ng.d
Type	Cal	Sample	p1 Cal 8-1000ng
Acq. Method	MDQ P1 01112020.m	Operator	Celena Shrum
Sample Position	P5-H5	Comment	
Injection Volume	2		
Acq. Date-Time	4/22/2020 8:19:48 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	208197	6334.29	69.9	6452.18	47242	101.0260 ng/ml
7-aminoclonazepam	4.244	1420124	6277.17	79.6	5628.47	70662	889.3472 ng/ml
a-hydroxyalprazolam	5.673	1012371	3018.41	63.7	1313.57	24347	978.5452 ng/ml
alpha-PVP	4.337	9319777	354526.22	50.6	4860.17	403868	1010.6029 ng/ml
Alprazolam	5.759	4201576	∞	101.3	∞	104727	1013.6464 ng/ml
Amphetamine	3.001	9880473	65013.93	49.8	57354.82	177616	679.4096 ng/ml
Benzoylcegonine	3.840	402091	65205.57	7.9	2026.27	14912	1065.9727 ng/ml
Buprenorphine	5.787	100355	562.76	16.1	∞	34182	108.2584 ng/ml
Bupropion	4.752	6869708	7087.45	58.5	1307.45	245111	996.7477 ng/ml
Carisoprodol	5.705	2933758	108949.83	54.9	53124.06	154113	960.7031 ng/ml
Citalopram	5.195	3069416	∞	40.4	633.59	138828	1004.8120 ng/ml
Clonazepam	5.586	4766273	∞	33.0	76483.76	64508	930.0328 ng/ml
Cocaine	4.243	7697266	295880.63	43.4	111860.39	584437	1012.8869 ng/ml
Codeine	2.543	867613	686.93	101.7	4127.92	42072	961.6524 ng/ml
Cyclobenzaprine	5.610	1004193	592.34	9.7	290.35	38780	1041.5393 ng/ml
Dextromethorphan	5.238	1340690	1593.21	79.4	379.42	61980	1005.1845 ng/ml
Dextrorphan	4.086	2230235	72831.31	211.6	165540.24	289105	1010.8962 ng/ml
Diazepam	5.941	3433458	10621.52	88.1	∞	161266	1002.1579 ng/ml
Dihydrocodeine	2.508	2535290	∞	68.1	58695.83	170309	881.4922 ng/ml
Diphenhydramine	5.272	7693380	1036.75	32.9	35034.48	532560	1006.9004 ng/ml
Doxylamine	4.508	22108384	∞	96.4	412237.60	942260	993.8638 ng/ml
EDDP	5.239	5857704	1352.65	42.2	541.40	315179	1028.7260 ng/ml
Fentanyl	5.072	150578	15236.69	65.2	224.04	81356	101.2741 ng/ml
Fluoxetine	5.702	752606	917.31	8.9	557.91	33914	981.2988 ng/ml
Hydrocodone	2.978	2799893	1750.45	41.2	1744.14	207748	926.4966 ng/ml
Hydromorphone	1.574	2419030	739.53	78.7	829.41	92835	1001.2474 ng/ml
Ketamine	4.019	8114420	206794.38	37.2	41403.49	391641	966.4519 ng/ml
Lamotrigine	4.261	331435	2167.62	80.1	2995.69	391641	582.3893 ng/ml
Lorazepam	5.721	1594445	925.47	57.9	661.65	64508	393.9670 ng/ml
Meprobamate	4.854	1417226	23321.82	25.9	9138.89	104833	809.5047 ng/ml
Methadone	5.641	4010143	4142.00	53.2	2473.27	192256	1002.8300 ng/ml
Methamphetamine	3.175	8581615	5423.59	41.8	1672.43	415331	878.9952 ng/ml
Metoprolol	4.292	1217439	21495.41	96.1	10982.66	908154	938.1789 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.596	7985427	178537.14	48.5	∞	403868	1260.6229 ng/ml
Mitragynine	5.200	445638	12759.09	38.9	∞	192256	873.6656 ng/ml
Morphine	1.220	348516	∞	24.3	1252.45	3673	973.4074 ng/ml
Norbuprenorphine	4.963	11873	96.04	85.2	207.59	6625	88.6184 ng/ml
Nordiazepam	5.881	2971912	∞	56.8	53216.61	97560	986.0091 ng/ml
Norfentanyl	4.053	1285305	122285.76	38.0	1562.76	517640	107.1029 ng/ml
Norhydrocodone	3.032	260191	289.85	42.7	332.24	21796	1026.6322 ng/ml
Noroxycodone	2.869	2416947	2177.12	50.1	424.13	77996	987.8300 ng/ml
O-desmethyl-tramadol	3.341	19632278	66681.36	5.7	57521.87	1015581	1036.0667 ng/ml
Oxazepam	5.731	2537861	∞	70.4	∞	161274	965.7537 ng/ml
Oxycodone	2.787	6605540	8129.18	32.0	4738.21	318534	980.2848 ng/ml
Oxymorphone	1.370	2174886	868.85	48.7	∞	81333	986.0842 ng/ml
Phentermine	3.738	2665106	6294.21	2.6	1998.38	381653	903.5392 ng/ml
Promethazine	5.527	2732363	2370.24	30.6	12315.42	125002	993.9891 ng/ml
Quetiapine	5.537	3768870	120787.94	60.5	4737.38	51145	1013.0254 ng/ml
Sertraline	5.770	316979	1098.94	89.7	1390.76	13360	994.5506 ng/ml
Temazepam	5.805	9092901	94162.00	28.5	16307.65	452204	1077.5973 ng/ml
Tramadol	4.206	16276836	3927.84	3.2	1554.95	908154	983.5184 ng/ml
Trazodone	5.119	4598677	4144.25	79.6	111925.51	187479	1028.5134 ng/ml
Venlafaxine	5.013	14990011	452600.87	34.7	53702.93	751946	1014.4955 ng/ml
Zolpidem	4.884	17935199	189185.21	29.3	1996.85	847949	1004.1678 ng/ml