



Worklist: 3362

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2019-1373	1	150557	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1404	1	150558	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1432	2	150559	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1440	2	150560	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1564	2	150561	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1613	1	150562	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1649	3	150563	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1040	1	150564	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1046	1	150565	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1055	1	150566	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1057	1	150567	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1096	1	150568	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1133	1	150569	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1134	1	150570	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1136	1	150571	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1137	1	150572	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1146	1	150573	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1147	1	150574	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1167	1	150575	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1170	1	150576	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: 4/30/19

Analyst: Sarah Pickle

Plate lot#: 190124 Item #: IDP-111

Plate Expiration: 07/24/19

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

Blank Blood Lot: 445283-1

Column: ~~Agilent 120 EC-C18 (2.1x 100-4um)~~ ϕ

LCMS-QQQ ID: ~~069910~~ ϕ
069901

Agilent 120 EC-C18 (2.1 x 100-2.1um) 9/18/19

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250µL blood (calibrated pipette) Pipette ID: #3** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 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** 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. 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. Place in autosampler and run worklist.

Post-Analytic

- 1. Create batch and process data.
Worklist path: *D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP* Batch Name: *MDQ*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥ 0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: **Curve Range Limited:** benzoylcegonine 10-1000, clonazepam 5-500, EDDP 10-1000, lorazepam 50-500, norfentanyl 0.5-50, norhydrocodone 5-100, nordiazepam 5-500, zolpidem 5-500

Did not evaluate: mirtazapine

Samples were originally extracted and ran on 4/19/19 on LCMS ID 59740 but run failed due to insufficient calibrator internal standard responses. Samples were re-extracted on 4/30/19 and ran on LCMS ID ~~69910~~. The negative control was

069901 ϕ

reinjecting 5/1/19 due to carryover in original injection. The negative control was reconstituted and reinjected 5/2/19 due to carryover in the reinject. The external control was reinjected 5/1/19 due to carryover in original injection.

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Idaho State Police Forensic Services

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AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 121218)
100 ul each 1 mg/mL stock solution in 9600 ul MeOH

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	177145	
Fluoxetine	Cerilliant	FN06281603	07/31/2021
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	12/12/18		
Prepared By:	Sarah Pickle		
Expires:	12/12/19		

Blood External Control Solution (Lot: WS121218)
*50 ul of methanol external control solution was added to 9950 ul of blood.
Approximately 50ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
Methanol External Control Solution		121218
Prepared:	12/12/18	
Prepared by:	Sarah Pickle	
Expires:	12/12/19	

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

SP

Instrument Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

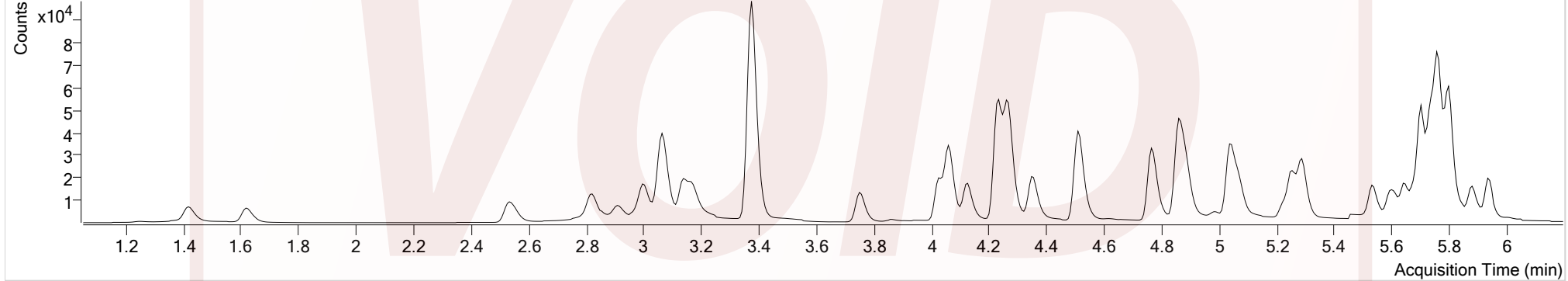
FALCO-LCMS (Property ID 069901)
Sample
MDQ P1 Combined 011619.m
P1-C11
1
4/30/2019 3:55:33 PM

Data File
Sample
Operator
Comment

p1 External Control.d
p1 External Control
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 External Control.d (p1 External Control)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	44821	1392.53	103.8	3169.99	28595	42.9922 ng/ml
Amphetamine	3.069	44979	2749.05	56.4	3031.52	13834	45.8508 ng/ml
Fluoxetine	5.704	12700	∞	9.1	1963.90	11896	36.0618 ng/ml
O-desmethyl-tramadol	3.379	114008	16733.55	6.6	620.41	116589	41.6849 ng/ml
Sertraline	5.773	674	79.02	84.0	107.04	6669	4.9505 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

Instrument Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

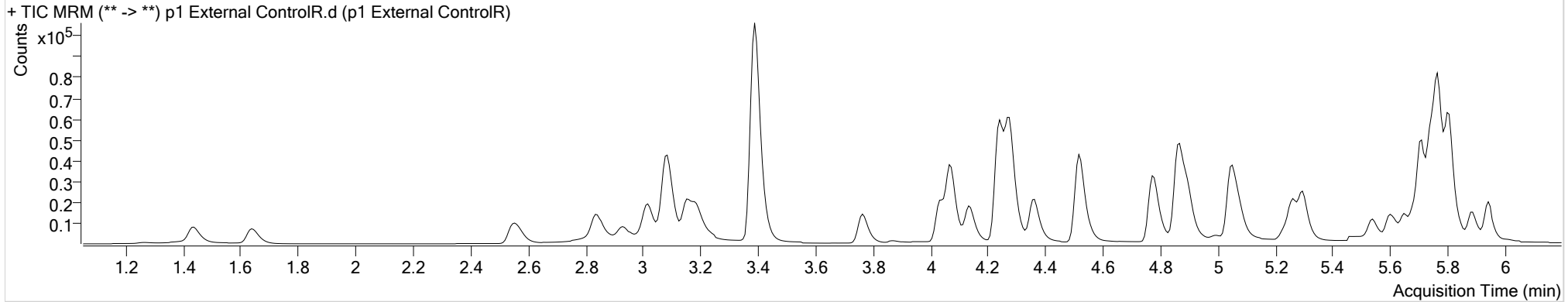
FALCO-LCMS (Property ID 069901)
Sample
MDQ P1 Combined 011619.m
P1-C11
1
5/1/2019 2:20:12 PM

Data File
Sample
Operator
Comment

p1 External ControlR.d
p1 External ControlR
Sarah Pickle

SP

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	50425	1173.59	103.0	1277.42	31965	43.2576 ng/ml
Amphetamine	3.089	50764	3325.97	55.7	5220.52	16123	44.3919 ng/ml
Fluoxetine	5.711	7984	1220.76	10.2	200.65	8553	31.7386 ng/ml
O-desmethyl-tramadol	3.393	128892	∞	6.6	684.66	132467	41.4795 ng/ml

Sample reinjected 5/1/19 due to carryover in original injection.

SP

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

Instrument Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

FALCO-LCMS (Property ID 069901)
Sample
MDQ P1 Combined 011619.m
P1-D11
1
4/30/2019 3:13:39 PM

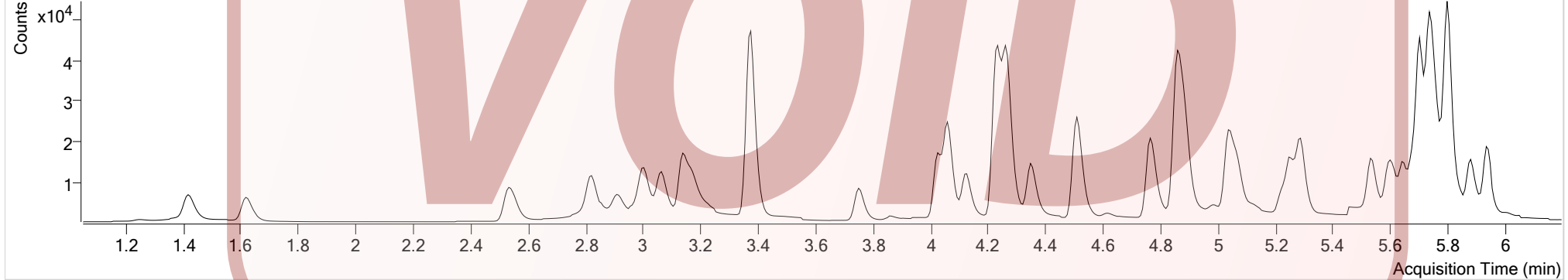
Data File
Sample
Operator
Comment

p1 Negative.d
p1 Negative
Sarah Pickle

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Sample Chromatogram

+ TIC MRM (** -> **) p1 Negative.d (p1 Negative)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Bupropion	4.789	1336	231.65	57.1	71.46	47837	1.8749 ng/ml
Citalopram	5.229	867	108.62	35.7	314.22	11517	4.2731 ng/ml
Cyclobenzaprine	5.618	1931	4241.54	10.8	33.20	8029	9.3925 ng/ml
Dextromethorphan	5.265	807	407.94	76.8	95.97	6871	6.2960 ng/ml
Diphenhydramine	5.292	2647	342.93	35.6	65.97	35096	4.9039 ng/ml
EDDP	5.257	452	255.84	41.1	28.57	21911	6.0424 ng/ml
Fentanyl	5.093	133	96.94	91.7 High	277.96	9032	0.7444 ng/ml
Fluoxetine	5.704	3075	∞	9.2	∞	9028	12.6155 ng/ml
Methadone	5.650	1820	352.94	50.5	1075.04	17317	5.6672 ng/ml
Mitragynine	5.221	257	465.21	43.1	228.48	17317	2.7203 ng/ml
Promethazine	5.535	4614	611.10	28.4	533.21	16085	11.7968 ng/ml
Quetiapine	5.545	1128	788.16	60.8	1638.83	4880	3.5565 ng/ml
Sertraline	5.773	1530	84.53	95.8	128.79	5466	11.3741 ng/ml
Trazodone	5.126	1713	87.97	79.9	157.68	11786	7.0812 ng/ml
Venlafaxine	5.046	603	402.77	35.4	1.60 Low	48083	2.1313 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

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Instrument Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

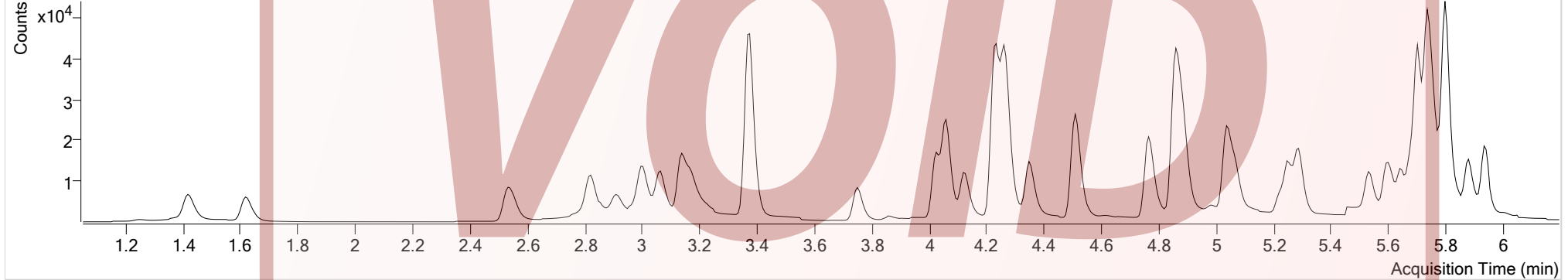
FALCO-LCMS (Property ID 069901)
Sample
MDQ P1 Combined 011619.m
P1-D11
1
4/30/2019 4:16:30 PM

Data File
Sample
Operator
Comment

p1 NegativeR.d
p1 NegativeR
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 NegativeR.d (p1 NegativeR)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Fluoxetine	5.704	1152	300.43	9.7	314.42	7454	6.6131 ng/ml
Sertraline	5.773	588	39.56	83.3	58.59	4554	5.9624 ng/ml

AM #28 Multi-Drug Quant. Results

**Batch results**

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin

Calibration Last Update

5/6/2019 1:30:48 PM

Instrument

FALCO-LCMS (Property ID 069901)

Type

Sample

Acq. Method

MDQ P1 Combined 011619.m

Sample Position

P1-D11

Injection Volume

1

Acq. Date-Time

5/2/2019 1:22:01 PM

Sample Info.**Data File**

p1 NegativeR4.d

Sample

p1 NegativeR4

Operator

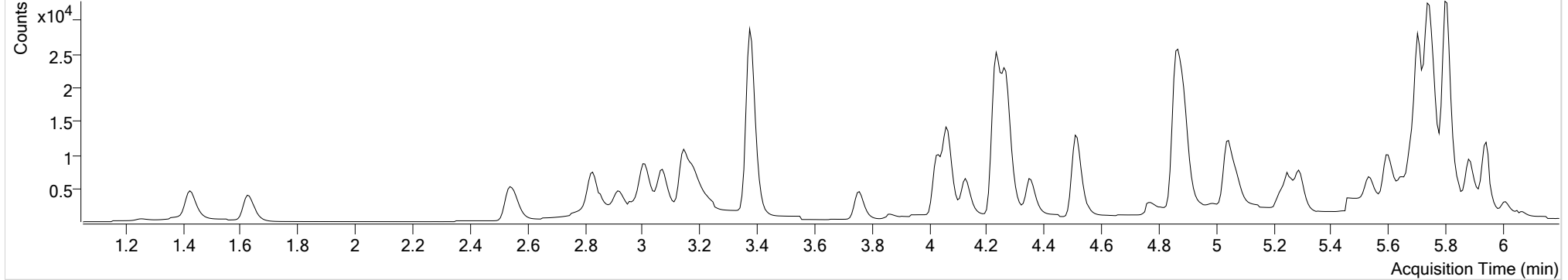
Sarah Pickle

Comment

S

Sample Chromatogram

+ TIC MRM (** -> **) p1 NegativeR4.d (p1 NegativeR4)



Sample reinjected 5/1/19 due to carryover in original injection. Sample was reconstituted and reinjected 5/2/19 due to carryover in first reinject.

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AM #28 Multi-Drug Quant. Results



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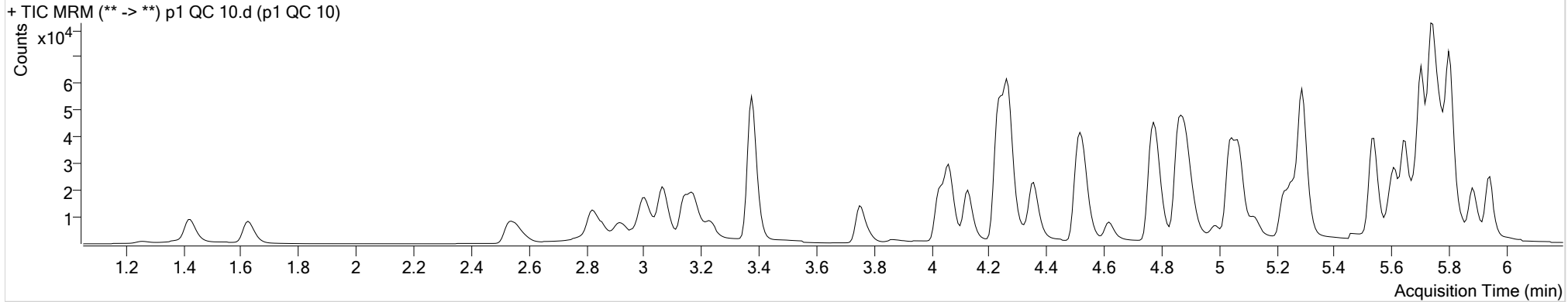
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

Instrument FALCO-LCMS (Property ID 069901)
Type QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-H11
Injection Volume 1
Acq. Date-Time 4/30/2019 1:39:26 PM
Sample Info.

Data File p1 QC 10.d
Sample p1 QC 10
Operator Sarah Pickle
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	1015	1073.89	66.0	288.03	32104	0.9705 ng/ml
7-aminoclonazepam	4.260	5901	∞	82.2	4656.98	24156	9.8138 ng/ml
a-hydroxyalprazolam	5.689	5162	∞	63.0	432.50	24065	9.9722 ng/ml
alpha-PVP	4.366	8613	7084.00	53.3	575.85	38055	10.4319 ng/ml
Alprazolam	5.766	9859	586.69	104.0	430.17	28170	10.8381 ng/ml
Amphetamine	3.069	13806	408.21	57.7	454.68	18330	10.4371 ng/ml
Benzoyllecgonine	3.890	529	50.83	8.6	16.55	1603	11.9414 ng/ml
Buprenorphine	5.810	795	214.15	18.2	30.88	30069	1.0415 ng/ml
Bupropion	4.789	27888	12358.85	58.9	263.23	87645	11.0494 ng/ml
Carisoprodol	5.714	12478	261.00	56.5	62.00	61575	10.2329 ng/ml
Citalopram	5.229	6524	270.71	41.8	5679.84	26260	10.8858 ng/ml
Clonazepam	5.602	7441	2323.11	32.4	185.58	11394	10.5536 ng/ml
Cocaine	4.266	8983	5335.57	43.5	681.87	83580	10.6116 ng/ml
Codeine	2.597	1565	286.21	101.1	2596.24	7141	10.2566 ng/ml
Cyclobenzaprine	5.618	6458	15307.66	11.3	∞	24877	10.0977 ng/ml
Dextromethorphan	5.265	4022	866.82	80.9	4374.46	19038	10.2595 ng/ml
Dextrorphan	4.129	3095	572.23	204.0	545.95	32378	11.2050 ng/ml
Diazepam	5.945	6768	1536.06	86.1	1098.08	29340	10.0964 ng/ml

AM #28 Multi-Drug Quant. Results



SP

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.569	3620	233.94	69.4	6883.85	19290	9.9362 ng/ml	
Diphenhydramine	5.292	19480	307.69	34.1	1925.11	94205	10.8779 ng/ml	
Doxylamine	4.529	20336	1511.85	98.2	4297.84	87188	10.3023 ng/ml	
EDDP	5.257	2374	560.05	40.7	150.27	13487	13.1397 ng/ml	
Fentanyl	5.086	656	360.49	66.6	976.56	29394	1.0924 ng/ml	
Fluoxetine	5.704	7590	610.16	11.0	301.53	27266	10.6081 ng/ml	
Hydrocodone	3.032	4318	89.39	40.3	117.70	25408	9.7416 ng/ml	
Hydromorphone	1.634	4581	762.79	75.0	470.14	16496	9.6666 ng/ml	
Ketamine	4.042	8556	285.76	35.5	314.24	39553	9.8326 ng/ml	
Lamotrigine	4.297	1200	653.09	74.9	∞	39553	9.6255 ng/ml	
Meprobamate	4.919	8107	3803.68	28.0	∞	34409	10.4527 ng/ml	
Methadone	5.650	11305	546.91	50.2	834.95	48175	11.2240 ng/ml	
Methamphetamine	3.237	8944	439.04	38.4	411.99	35243	10.2511 ng/ml	
Metoprolol	4.329	2181	1805.44	91.3	∞	93896	10.0871 ng/ml	
Mirtazapine	4.617	10542	4178.68	48.0	1210.09	38055	8.8137 ng/ml	did not evaluate
Mitragynine	5.221	1722	5655.78	34.9	771.00	48175	8.3533 ng/ml	
Morphine	1.266	896	1621.02	22.4	125.44	996	9.3188 ng/ml	
Norbuprenorphine	4.988	255	61.87	102.9	122.08	8086	1.1838 ng/ml	
Nordiazepam	5.891	6659	989.45	57.0	637.87	21174	9.3728 ng/ml	
Norfentanyl	4.091	1276	169.65	36.1	117.21	54950	0.9981 ng/ml	
Norhydrocodone	3.087	743	165.60	44.0	32.69	26454	8.2374 ng/ml	
Noroxycodone	2.935	4224	139.08	51.3	169.55	14764	10.0584 ng/ml	
O-desmethyl-tramadol	3.386	23855	4946.99	6.8	517.06	104481	10.0084 ng/ml	
Oxazepam	5.747	20059	713.64	67.0	285.57	74820	9.8789 ng/ml	
Oxycodone	2.853	8417	61.30	30.6	43.74	34001	10.4482 ng/ml	
Oxymorphone	1.423	5971	309.34	47.0	204.27	19824	10.1651 ng/ml	
Phentermine	3.787	3438	401.70	3.9	20.24	34368	10.0562 ng/ml	
Promethazine	5.542	12732	873.16	29.2	827.55	46734	11.2869 ng/ml	
Quetiapine	5.545	8273	10781.31	62.4	10310.72	10782	10.4648 ng/ml	
Sertraline	5.773	4486	286.27	92.6	444.08	16039	11.3673 ng/ml	
Temazepam	5.808	19485	724.42	30.9	39.59	87151	9.8419 ng/ml	
Tramadol	4.249	19863	1557.47	3.4	233.32	93896	10.3381 ng/ml	
Trazodone	5.126	8213	500.04	78.3	333.44	31743	11.0803 ng/ml	
Venlafaxine	5.046	13578	1324.71	37.9	474.93	66297	10.3684 ng/ml	
Zolpidem	4.883	20911	6721.32	31.1	5441.78	97192	10.1822 ng/ml	

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

Instrument
Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

FALCO-LCMS (Property ID 069901)
QC
MDQ P1 Combined 011619.m
P1-G11
1
4/30/2019 2:00:21 PM

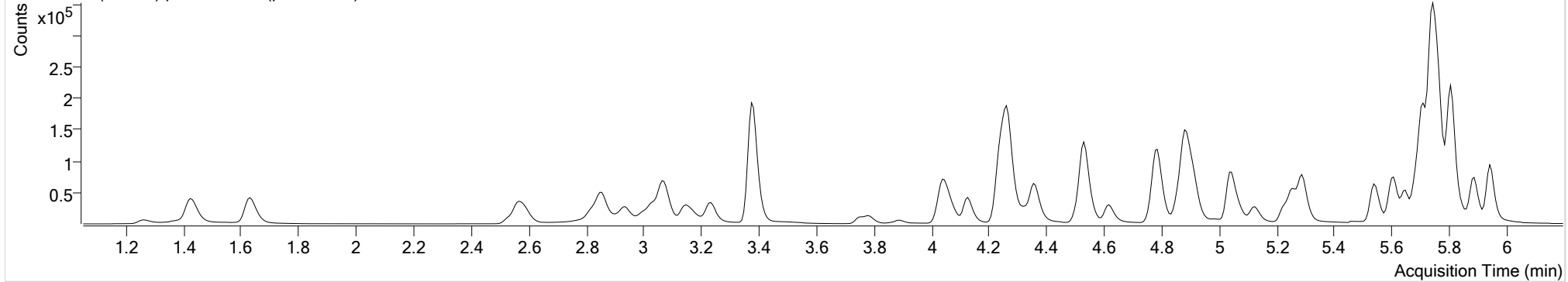
Data File
Sample
Operator
Comment

p1 QC 100.d
p1 QC 100
Sarah Pickle

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Sample Chromatogram

+ TIC MRM (** -> **) p1 QC 100.d (p1 QC 100)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	11969	3385.14	71.7	5674.29	41154	8.3413 ng/ml
7-aminoclonazepam	4.260	66595	∞	80.7	7426.01	28701	101.8986 ng/ml
a-hydroxyalprazolam	5.689	60899	2383.59	63.0	781.76	30296	102.4685 ng/ml
alpha-PVP	4.366	71702	24839.25	51.3	12651.14	32963	88.6383 ng/ml
Alprazolam	5.766	120132	2956.80	105.2	10261.08	36703	88.0411 ng/ml
Amphetamine	3.069	85194	3119.86	56.7	6137.58	12116	99.4325 ng/ml
Benzoyllecgonine	3.890	6533	226.03	7.7	160.03	2620	83.9889 ng/ml
Buprenorphine	5.810	2597	1568.82	19.0	91.75	11110	9.1728 ng/ml
Bupropion	4.789	167300	19342.25	58.9	11459.83	56584	94.4435 ng/ml
Carisoprodol	5.714	148935	10511.60	58.0	4568.01	78603	94.3146 ng/ml
Citalopram	5.229	28446	4005.69	41.1	2331.88	12247	90.0942 ng/ml
Clonazepam	5.602	79634	44544.99	34.9	425.93	13222	98.1468 ng/ml
Cocaine	4.266	84421	82256.89	43.9	38903.64	83589	85.4726 ng/ml
Codeine	2.597	18125	715.17	102.6	437.48	8549	89.7351 ng/ml
Cyclobenzaprine	5.618	24335	13719.18	9.8	538.16	9963	90.6800 ng/ml
Dextromethorphan	5.265	16173	849.31	79.6	15940.31	8061	86.0842 ng/ml
Dextrorphan	4.129	21140	44128.04	209.5	9565.24	24032	90.1781 ng/ml
Diazepam	5.945	76669	3801.22	85.2	643.32	34218	96.2624 ng/ml

AM #28 Multi-Drug Quant. Results



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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.569	46131	56439.82	69.0	23218.55	25502	98.2370 ng/ml	
Diphenhydramine	5.292	81990	7883.14	34.3	13558.41	41660	90.9715 ng/ml	
Doxylamine	4.529	147009	158266.51	98.0	57261.65	66804	91.9072 ng/ml	
EDDP	5.257	39068	408.22	42.5	3273.22	21402	88.4822 ng/ml	
Fentanyl	5.086	2331	∞	70.3	1933.19	11562	9.3622 ng/ml	
Fluoxetine	5.704	25743	324.54	9.6	2130.76	10184	83.1585 ng/ml	
Hydrocodone	3.032	45001	∞	40.8	∞	27582	97.1897 ng/ml	
Hydromorphone	1.634	57589	2158.91	73.5	2712.59	22170	87.2689 ng/ml	
Ketamine	4.042	90606	4462.40	37.4	590.16	44612	91.3605 ng/ml	
Lamotrigine	4.297	11951	8274.84	79.2	8950.77	44612	90.4532 ng/ml	
Lorazepam	5.737	154806	5445.66	56.4	1188.60	13222	107.2424 ng/ml	
Meprobamate	4.919	91173	36718.92	28.5	5115.84	43301	95.8025 ng/ml	
Methadone	5.650	44250	2695.44	50.2	∞	20192	95.1264 ng/ml	
Methamphetamine	3.237	56028	2826.14	41.2	486.75	25500	91.1195 ng/ml	
Metoprolol	4.329	17827	28325.50	92.5	∞	95387	93.3596 ng/ml	
Mirtazapine	4.617	44636	9305.38	48.5	3330.58	32963	50.1562 ng/ml	did not evaluate
Mitragynine	5.221	6056	16405.12	37.6	3537.84	20192	79.6325 ng/ml	
Morphine	1.266	13045	639.17	23.0	2267.14	1541	85.1389 ng/ml	
Norbuprenorphine	4.995	857	86.47	97.9	123.54	3559	9.6495 ng/ml	
Nordiazepam	5.891	70394	11721.30	57.7	11908.46	23001	89.3733 ng/ml	
Norfentanyl	4.084	11722	911.81	36.1	381.27	51237	9.1919 ng/ml	
Norhydrocodone	3.087	11715	∞	43.7	377.40	26310	101.8420 ng/ml	
Noroxycodone	2.935	42907	∞	48.2	303.32	16362	93.3665 ng/ml	
O-desmethyl-tramadol	3.386	311131	141576.45	6.7	1661.34	140978	93.6261 ng/ml	
Oxazepam	5.747	185143	5347.18	69.8	373.48	75633	100.0587 ng/ml	
Oxycodone	2.853	103854	1301.34	31.5	1153.16	45760	95.2981 ng/ml	
Oxymorphone	1.423	72843	∞	48.6	658.35	26392	92.3604 ng/ml	
Phentermine	3.787	24376	2244.91	3.7	178.52	25567	95.1283 ng/ml	
Promethazine	5.542	47993	45594.93	29.3	439.98	19285	89.6892 ng/ml	
Quetiapine	5.545	35885	∞	61.6	87341.58	4925	94.4600 ng/ml	
Sertraline	5.773	14073	479.73	91.6	5603.66	5592	91.6936 ng/ml	
Temazepam	5.808	234098	6326.21	29.7	300.54	109810	93.9083 ng/ml	
Tramadol	4.242	188727	1904.96	3.7	576.32	95387	95.9756 ng/ml	
Trazodone	5.126	32121	∞	77.3	6782.54	13517	85.7306 ng/ml	
Venlafaxine	5.040	102491	21300.71	37.1	541.38	51232	87.3067 ng/ml	
Zolpidem	4.883	203886	3364.23	32.2	26544.32	102788	92.3742 ng/ml	

AM #28 Multi-Drug Quant. Results



SP

Batch results

Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

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QC
MDQ P1 Combined 011619.m
P1-F11
1
4/30/2019 2:21:18 PM

Data File

Sample

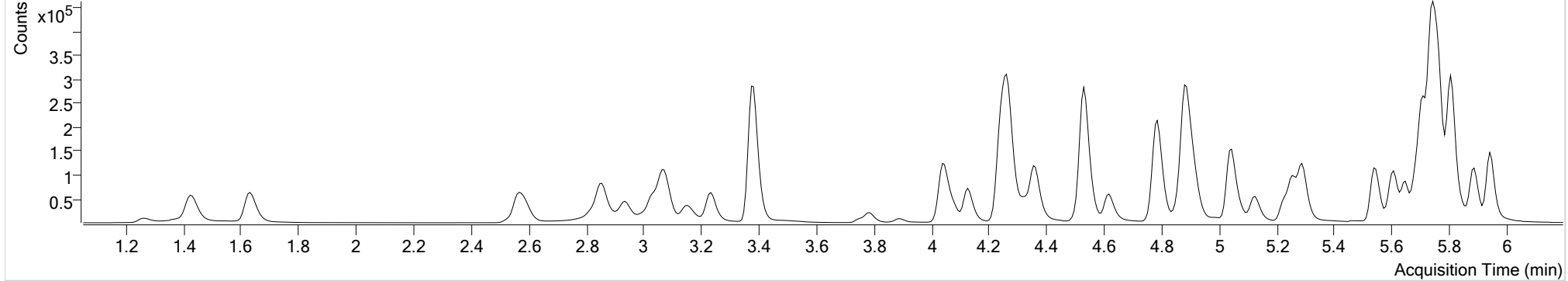
Operator

Comment

p1 QC 250.d
p1 QC 250
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 QC 250.d (p1 QC 250)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	24107	948.60	71.9	17431.79	33199	20.7196 ng/ml
7-aminoclonazepam	4.260	106931	52370.23	79.5	27795.27	18713	252.4417 ng/ml
a-hydroxyalprazolam	5.689	98728	466.22	63.5	4027.17	20890	242.3700 ng/ml
alpha-PVP	4.366	154574	1156.06	51.7	10861.24	29056	214.8301 ng/ml
Alprazolam	5.766	210576	3029.49	104.9	17682.20	25579	219.0225 ng/ml
Amphetamine	3.069	148653	6417.42	56.2	9121.58	8772	239.9834 ng/ml
Benzoyllecgonine	3.890	10406	14031.29	7.6	775.14	1652	210.7316 ng/ml
Buprenorphine	5.810	5744	734.31	17.1	241.95	9893	22.7814 ng/ml
Bupropion	4.789	326154	51901.78	58.6	30680.95	44306	233.6671 ng/ml
Carisoprodol	5.714	237349	3063.14	57.1	916.35	51994	226.9932 ng/ml
Citalopram	5.229	57615	13136.88	41.6	8815.85	10224	216.5923 ng/ml
Clonazepam	5.602	128291	26874.45	35.4	∞	9077	230.4463 ng/ml
Cocaine	4.266	181759	71157.08	44.0	20501.86	73037	208.1238 ng/ml
Codeine	2.597	34206	17171.52	102.9	398.79	6594	217.9685 ng/ml
Cyclobenzaprine	5.618	46903	69247.09	10.6	556.72	7594	228.5140 ng/ml
Dextromethorphan	5.265	30563	882.38	80.3	582.38	6383	203.6016 ng/ml
Dextrorphan	4.129	44883	2385.34	206.5	1767.83	20190	225.4825 ng/ml
Diazepam	5.945	140456	5904.40	86.0	3656.50	26328	228.9167 ng/ml

AM #28 Multi-Drug Quant. Results



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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.569	88243	85149.70	68.6	50378.48	20789	230.9076 ng/ml	
Diphenhydramine	5.292	155157	40661.18	34.2	9956.71	32319	219.7885 ng/ml	
Doxylamine	4.529	345091	∞	97.7	∞	64519	222.4865 ng/ml	
EDDP	5.257	86434	22546.97	41.6	9827.83	19145	211.3219 ng/ml	
Fentanyl	5.086	4247	2629.44	73.5	3682.19	8911	22.0488 ng/ml	
Fluoxetine	5.704	50308	1268.73	10.0	5596.09	7968	205.2741 ng/ml	
Hydrocodone	3.032	91843	771.17	42.5	∞	23676	231.6615 ng/ml	
Hydromorphone	1.634	100982	∞	74.9	1030.52	14988	225.7500 ng/ml	
Ketamine	4.042	192176	31982.83	37.2	530.25	37911	227.8577 ng/ml	
Lamotrigine	4.297	23758	13876.19	80.2	10720.22	37911	212.5372 ng/ml	
Lorazepam	5.737	209151	2524.92	56.9	194.50	9077	267.4119 ng/ml	
Meprobamate	4.919	134775	17425.49	28.6	∞	28071	218.8377 ng/ml	
Methadone	5.650	86151	1787.47	50.9	4675.80	16317	227.5553 ng/ml	
Methamphetamine	3.237	110803	807.62	40.6	∞	20893	220.3658 ng/ml	
Metoprolol	4.329	39233	45697.33	93.2	25663.19	86411	229.2907 ng/ml	
Mirtazapine	4.617	90521	102829.33	48.2	21312.90	29056	117.7599 ng/ml	did not evaluate
Mitragynine	5.221	12956	49667.54	37.1	6278.52	16317	212.9684 ng/ml	
Morphine	1.266	21174	912.09	22.4	425.26	1031	206.1179 ng/ml	
Norbuprenorphine	4.995	1644	617.27	100.6	2021.61	3043	21.7632 ng/ml	
Nordiazepam	5.891	128757	1357.93	57.4	26373.54	17249	217.6767 ng/ml	
Norfentanyl	4.091	28075	7604.70	36.9	4216.47	49499	22.6809 ng/ml	
Norhydrocodone	3.087	31156	740.57	42.5	338.68	22552	311.9173 ng/ml	outside curve range
Noroxycodone	2.935	83493	∞	48.8	1263.36	13081	227.4569 ng/ml	
O-desmethyl-tramadol	3.386	577220	104965.94	6.7	2464.81	107489	227.2998 ng/ml	
Oxazepam	5.747	264249	2721.05	66.6	∞	44652	243.6168 ng/ml	
Oxycodone	2.853	187293	1370.81	32.6	2136.30	35696	220.2397 ng/ml	
Oxymorphone	1.423	122494	∞	47.2	565.72	18139	225.8432 ng/ml	
Phentermine	3.787	46174	7769.99	3.8	331.13	20225	227.6758 ng/ml	
Promethazine	5.542	90369	3282.68	28.8	2074.71	15418	209.0025 ng/ml	
Quetiapine	5.545	85631	84939.26	58.7	15989.05	4667	237.0044 ng/ml	
Sertraline	5.773	26359	1349.43	91.3	14649.58	4456	213.7425 ng/ml	
Temazepam	5.808	392732	6254.25	29.6	425.35	76416	226.4025 ng/ml	
Tramadol	4.242	415465	49580.21	3.6	434.11	86411	233.1074 ng/ml	
Trazodone	5.126	69807	∞	77.6	∞	11686	212.5478 ng/ml	
Venlafaxine	5.046	231809	2395.26	37.5	613.16	47509	210.6493 ng/ml	
Zolpidem	4.883	484496	60828.59	31.4	∞	98749	228.2180 ng/ml	

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

Instrument
Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

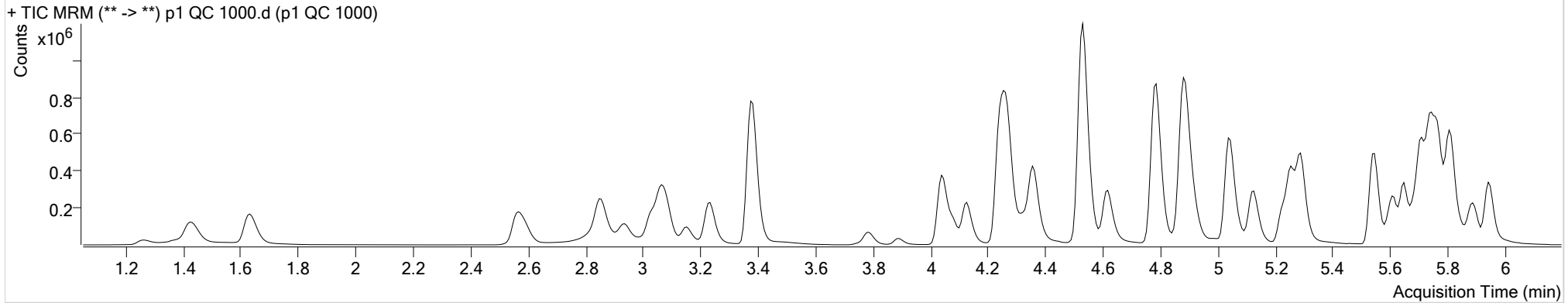
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QC
MDQ P1 Combined 011619.m
P1-E11
1
4/30/2019 2:42:12 PM

Data File
Sample
Operator
Comment

p1 QC 1000.d
p1 QC 1000
Sarah Pickle

5

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	93204	7929.47	71.5	7263.89	32268	82.2059 ng/ml
7-aminoclonazepam	4.267	233840	∞	79.6	19781.96	12533	826.5781 ng/ml
a-hydroxyalprazolam	5.689	223138	567.18	64.3	∞	13930	824.0866 ng/ml
alpha-PVP	4.360	618371	62482.62	51.3	80374.12	28969	857.9259 ng/ml
Alprazolam	5.766	547950	∞	102.4	∞	17141	845.8826 ng/ml
Amphetamine	3.069	473906	17965.94	56.4	∞	9199	730.0484 ng/ml
Benzoylcegonine	3.890	45746	1038.76	7.7	12904.03	1757	867.9320 ng/ml
Buprenorphine	5.810	23744	4561.94	17.0	2451.81	10159	91.6946 ng/ml
Bupropion	4.789	1399805	382063.79	58.9	50963.27	50209	882.1861 ng/ml
Carisoprodol	5.714	539734	22189.02	58.6	13549.18	31116	862.0783 ng/ml
Citalopram	5.229	258686	4163.02	41.7	1642.68	11357	871.1859 ng/ml
Clonazepam	5.602	285736	46197.04	35.8	15321.24	6252	745.3514 ng/ml outside curve range
Cocaine	4.266	635508	1093170.11	44.8	199825.88	65275	809.2816 ng/ml
Codeine	2.597	102215	466.87	100.8	720.41	5131	833.8792 ng/ml
Cyclobenzaprine	5.618	207924	238104.86	10.6	11016.50	8456	908.1965 ng/ml
Dextromethorphan	5.265	126831	4488.87	79.4	91110.98	6555	818.5948 ng/ml
Dextrorphan	4.129	162864	99931.24	205.7	1652.12	18728	877.4579 ng/ml
Diazepam	5.945	391995	27711.93	85.0	12206.02	19497	862.1159 ng/ml

AM #28 Multi-Drug Quant. Results



5

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.562	270565	122520.16	70.6	51854.35	21287	691.9788 ng/ml	
Diphenhydramine	5.292	695468	95335.99	34.4	32137.00	36637	864.7191 ng/ml	
Doxylamine	4.529	1560557	398941.48	98.3	492810.88	77887	831.7109 ng/ml	
EDDP	5.257	448888	101873.54	41.8	28987.84	24907	828.3111 ng/ml	
Fentanyl	5.086	19700	937.90	72.8	26662.48	10050	90.4763 ng/ml	
Fluoxetine	5.704	198742	29520.60	9.6	5908.44	7864	816.7305 ng/ml	
Hydrocodone	3.032	313083	1020.16	41.9	∞	23358	801.5129 ng/ml	
Hydromorphone	1.634	299013	∞	73.5	∞	12353	810.0955 ng/ml	
Ketamine	4.042	673409	266765.54	37.2	2405.01	36960	818.6715 ng/ml	
Lamotrigine	4.297	71386	19658.07	82.9	70298.33	36960	656.4750 ng/ml	
Lorazepam	5.737	311967	733.20	56.7	∞	6252	646.9221 ng/ml	outside curve range
Meprobamate	4.919	325900	∞	27.9	30288.81	16902	879.7655 ng/ml	
Methadone	5.650	386255	1824.41	52.7	43106.43	18805	881.8770 ng/ml	
Methamphetamine	3.237	435544	9630.98	40.6	∞	21974	824.4592 ng/ml	
Metoprolol	4.329	137114	159646.16	94.2	∞	84171	827.1335 ng/ml	
Mirtazapine	4.617	461322	∞	48.6	147567.39	28969	609.4123 ng/ml	did not evaluate
Mitragynine	5.221	57222	8627.93	38.4	28908.62	18805	819.7869 ng/ml	
Morphine	1.266	64587	8464.99	23.8	148.39	808	801.1240 ng/ml	
Norbuprenorphine	4.988	7617	1349.35	92.9	1451.58	3321	92.7133 ng/ml	
Nordiazepam	5.891	282873	17983.57	57.7	9898.97	10770	765.3735 ng/ml	outside curve range
Norfentanyl	4.084	147467	∞	37.4	8098.85	57833	101.7149 ng/ml	outside curve range
Norhydrocodone	3.087	136204	2093.69	41.4	709.28	20423	1498.3214 ng/ml	outside curve range
Noroxycodone	2.935	227525	106.79	49.3	∞	10035	808.3221 ng/ml	
O-desmethyl-tramadol	3.379	1883194	754988.10	6.7	19101.61	89401	890.5611 ng/ml	
Oxazepam	5.747	317298	7353.75	68.5	971.70	16344	801.9159 ng/ml	
Oxycodone	2.847	654124	∞	31.3	2804.00	34166	803.4805 ng/ml	
Oxymorphone	1.423	365231	∞	47.6	1656.19	14518	841.0805 ng/ml	
Phentermine	3.787	172414	10999.03	3.6	764.38	22265	772.0334 ng/ml	
Promethazine	5.542	397032	2129.79	29.2	10569.58	16579	848.8338 ng/ml	
Quetiapine	5.545	433469	292374.17	60.3	3030.90	6458	865.4038 ng/ml	
Sertraline	5.780	87408	1282.14	90.0	879.79	3557	883.7496 ng/ml	
Temazepam	5.808	932700	65336.82	30.2	1751.21	50289	817.0603 ng/ml	
Tramadol	4.242	1415844	13401.40	3.6	1254.15	84171	815.3145 ng/ml	
Trazodone	5.126	398906	∞	78.3	∞	16953	831.4679 ng/ml	
Venlafaxine	5.040	1017419	7132.20	37.2	12191.43	51738	844.1433 ng/ml	
Zolpidem	4.883	1749242	404643.72	31.7	118303.20	104889	775.3003 ng/ml	outside curve range

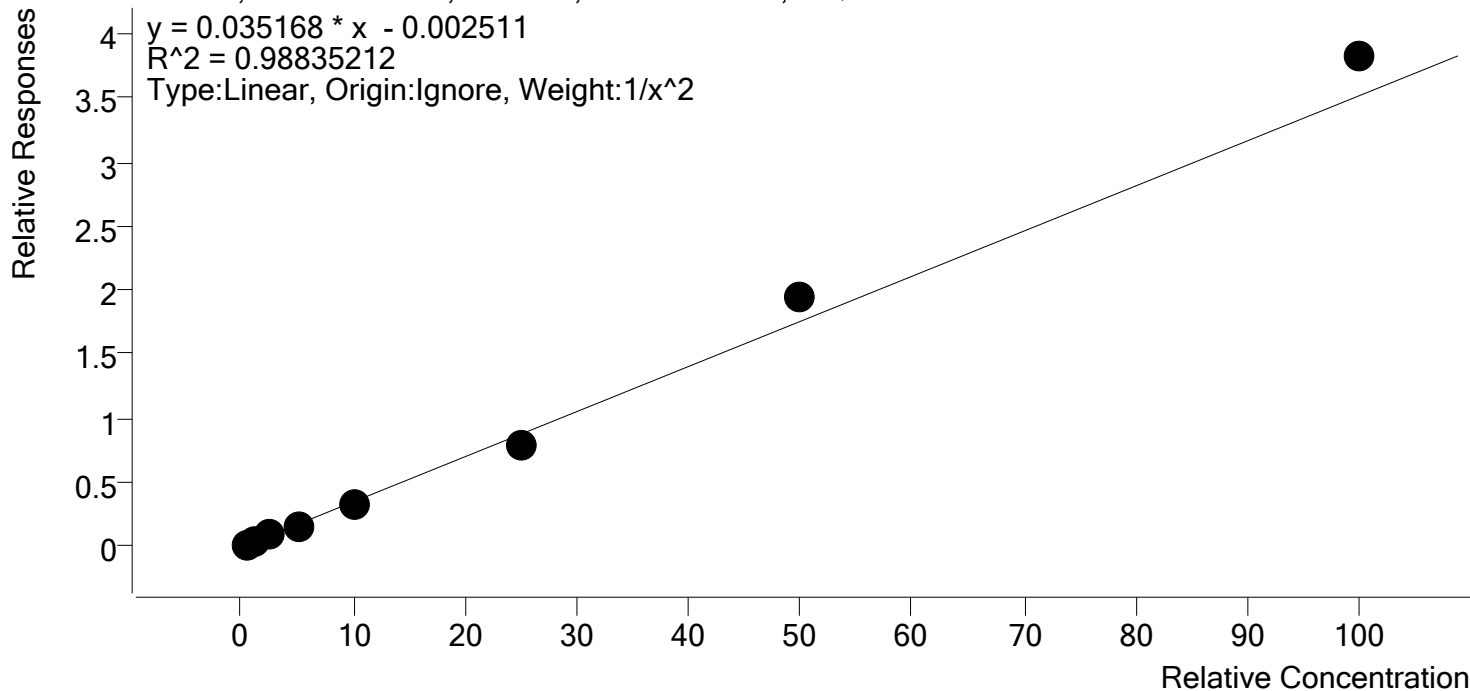


AM #28 Multi-Drug Quant. Calibration Curve Report

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Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

5

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



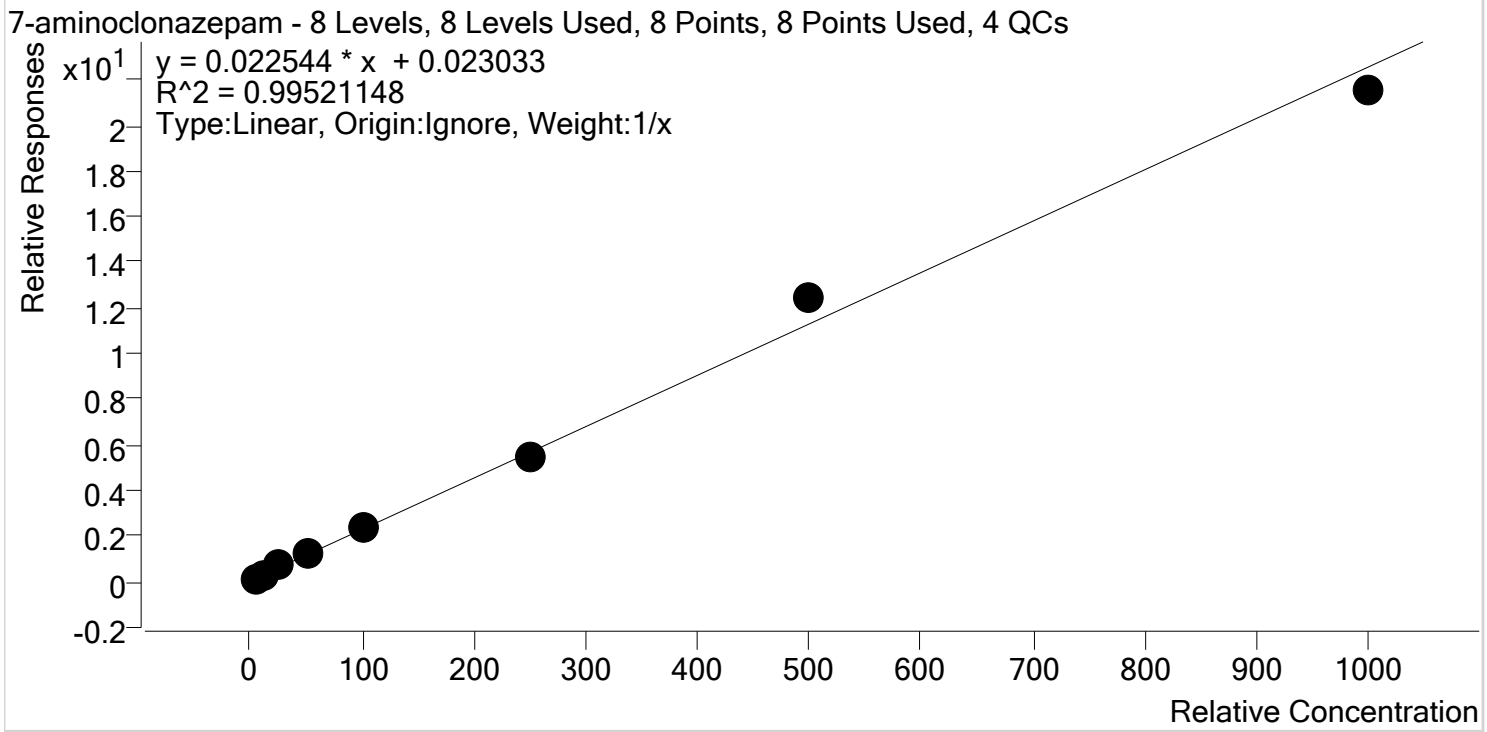
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p1 Cal 1-5ng	1	✓	0.5	0.5	101.2
p1 Cal 2- 10ng	2	✓	1.0	1.0	95.4
p1 Cal 3 -25ng	3	✓	2.5	2.8	112.1
p1 Cal 4-50ng	4	✓	5.0	4.6	92.0
p1 Cal 5-100ng	5	✓	10.0	9.1	91.4
p1 Cal 6-250ng	6	✓	25.0	22.2	88.7
p1 Cal 7-500ng	7	✓	50.0	55.3	110.5
p1 Cal 8-1000ng	8	✓	100.0	108.7	108.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.0	79.1
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	29.6	118.6
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	240.5	96.2
p1 Cal 7-500ng	7	✓	500.0	549.7	109.9
p1 Cal 8-1000ng	8	✓	1000.0	954.2	95.4

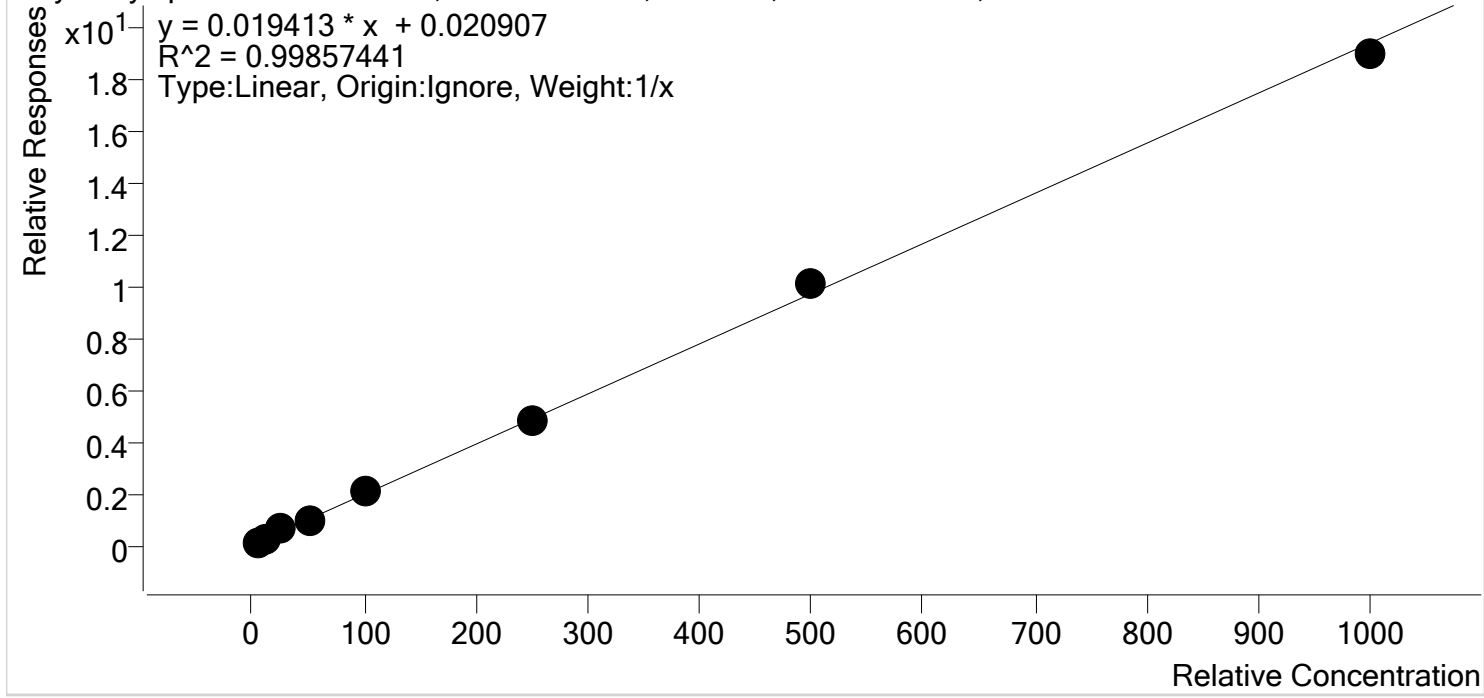


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

5

a-hydroxyalprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	83.4
p1 Cal 2- 10ng	2	✓	10.0	9.3	93.1
p1 Cal 3 -25ng	3	✓	25.0	30.0	119.8
p1 Cal 4-50ng	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	247.1	98.8
p1 Cal 7-500ng	7	✓	500.0	518.3	103.7
p1 Cal 8-1000ng	8	✓	1000.0	977.5	97.8

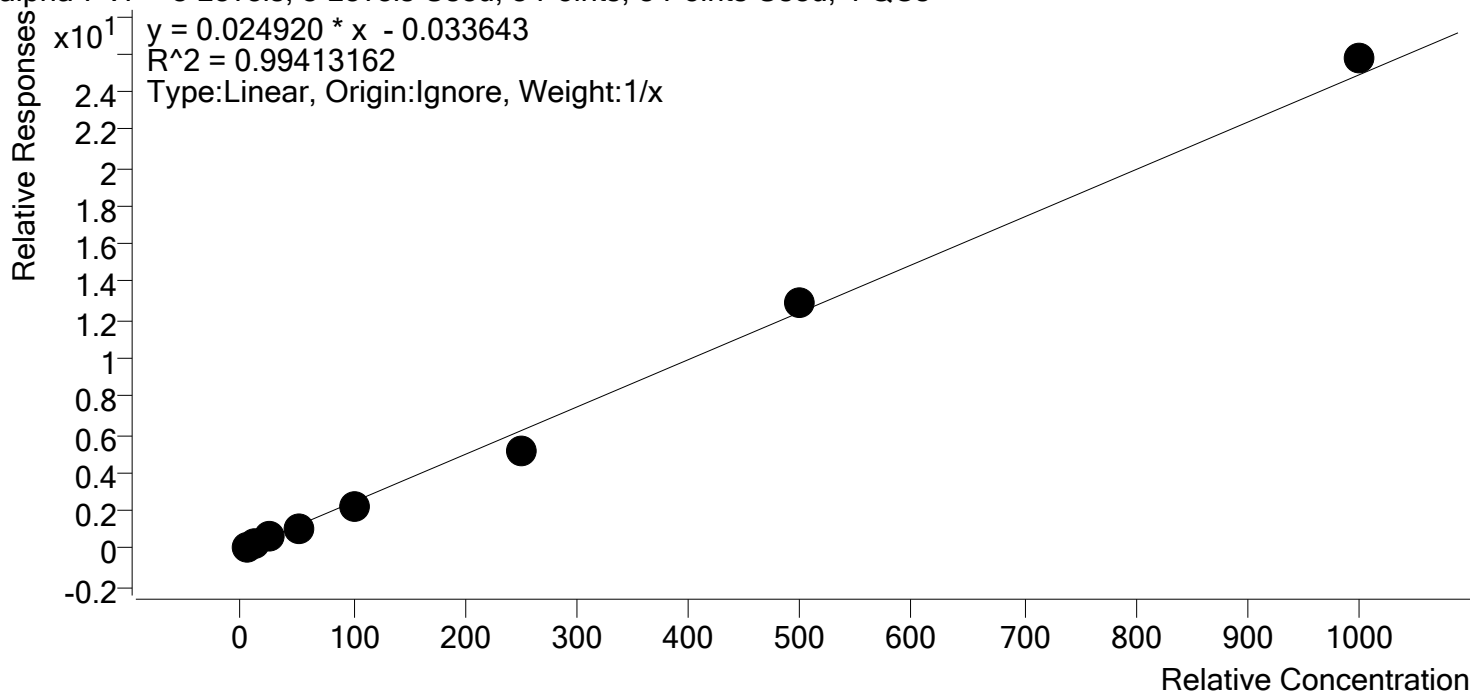


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	114.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.3
p1 Cal 3 -25ng	3	✓	25.0	28.3	113.3
p1 Cal 4-50ng	4	✓	50.0	43.7	87.3
p1 Cal 5-100ng	5	✓	100.0	88.6	88.6
p1 Cal 6-250ng	6	✓	250.0	211.3	84.5
p1 Cal 7-500ng	7	✓	500.0	517.7	103.5
p1 Cal 8-1000ng	8	✓	1000.0	1034.1	103.4

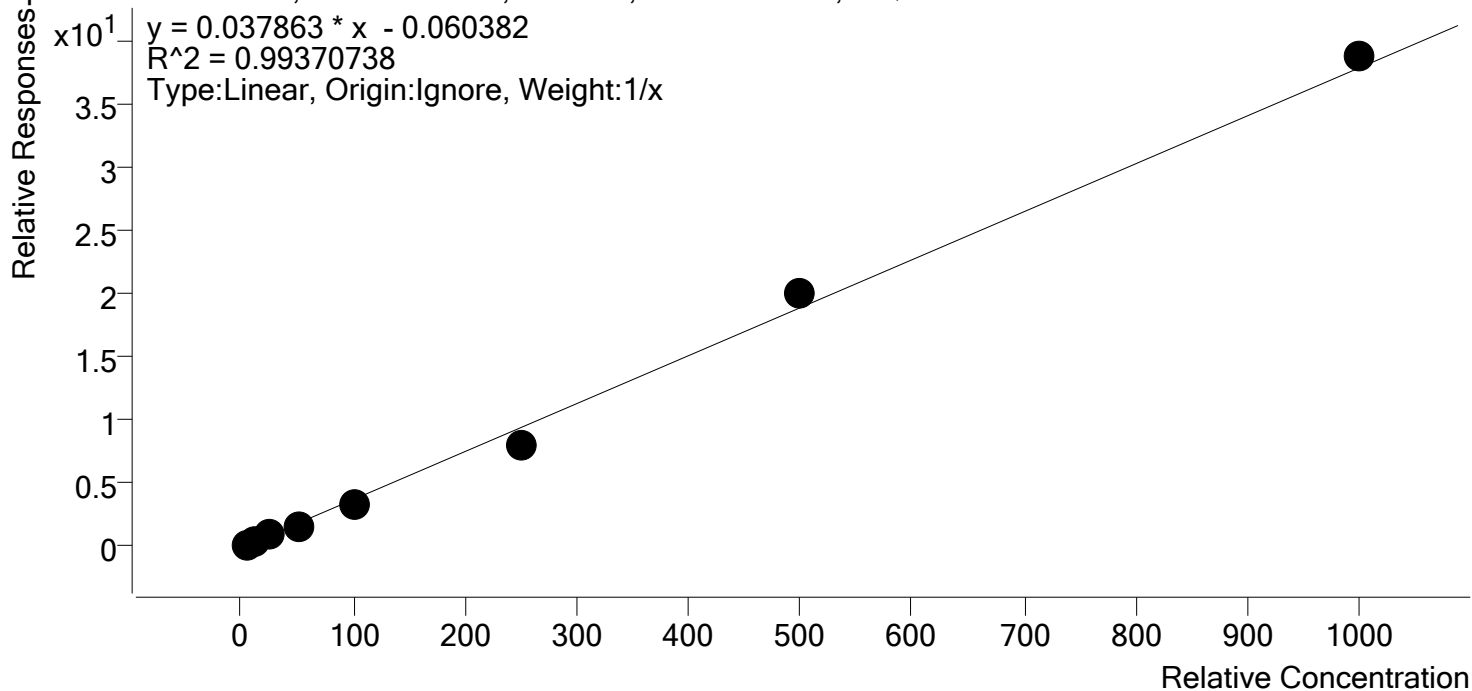


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.5
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.0
p1 Cal 3 -25ng	3	✓	25.0	27.0	107.9
p1 Cal 4-50ng	4	✓	50.0	43.5	87.0
p1 Cal 5-100ng	5	✓	100.0	89.2	89.2
p1 Cal 6-250ng	6	✓	250.0	209.8	83.9
p1 Cal 7-500ng	7	✓	500.0	530.4	106.1
p1 Cal 8-1000ng	8	✓	1000.0	1023.6	102.4

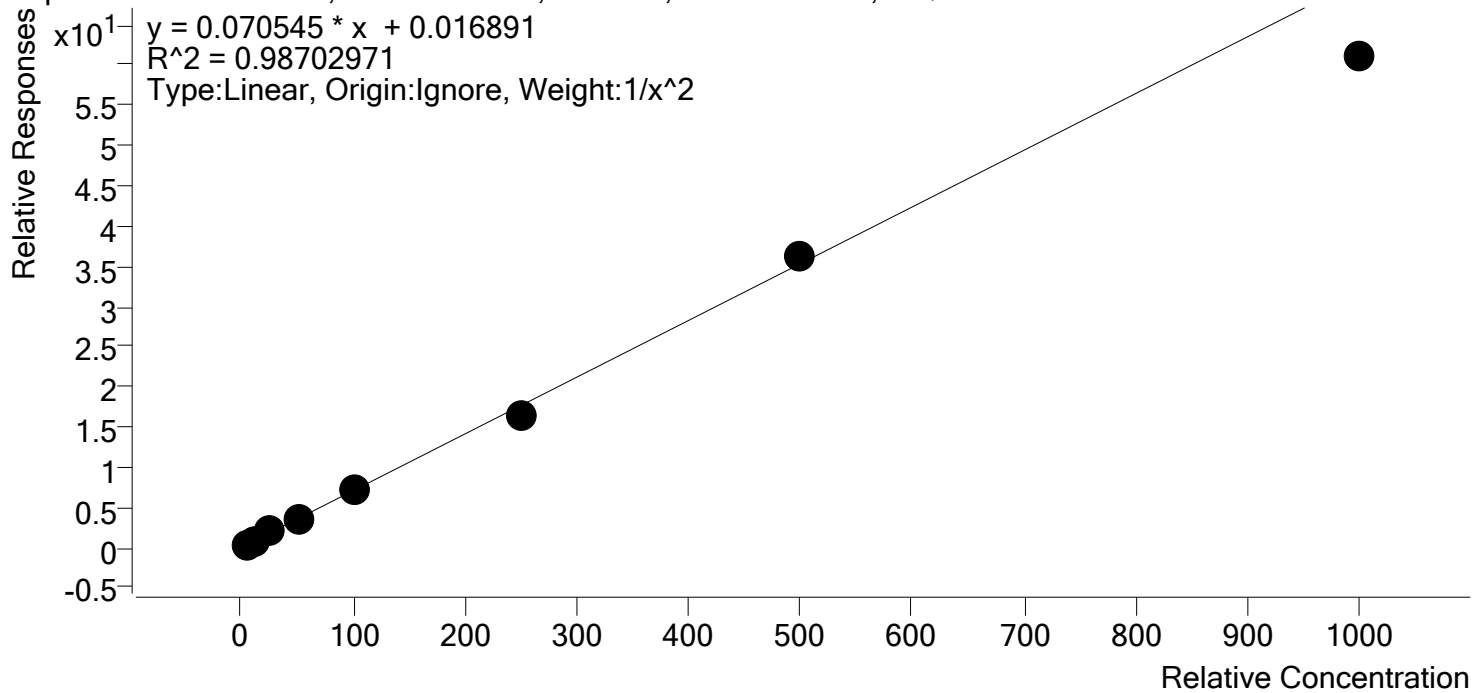


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.5
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	29.8	119.4
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	231.0	92.4
p1 Cal 7-500ng	7	✓	500.0	510.7	102.1
p1 Cal 8-1000ng	8	✓	1000.0	865.2	86.5

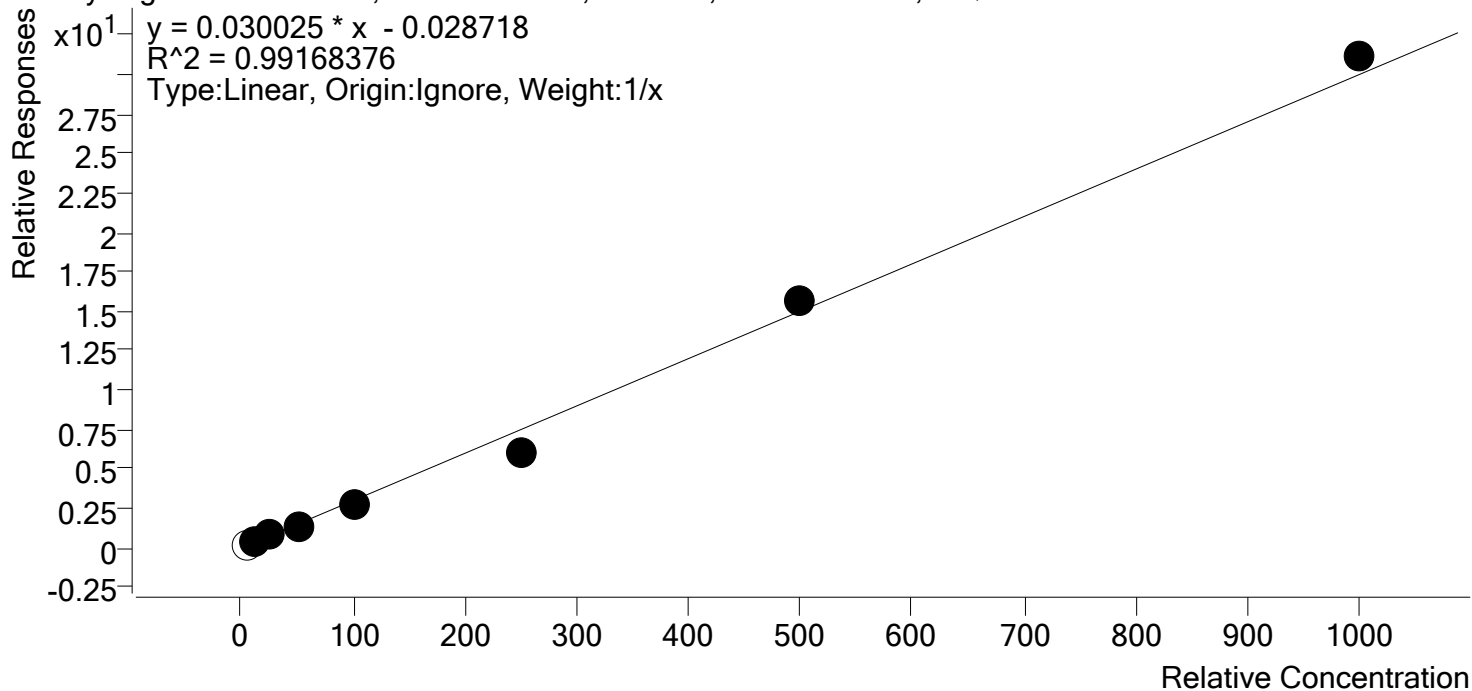


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	6.8	135.8
p1 Cal 2- 10ng	2	✓	10.0	11.6	115.9
p1 Cal 3 -25ng	3	✓	25.0	30.0	119.9
p1 Cal 4-50ng	4	✓	50.0	43.0	85.9
p1 Cal 5-100ng	5	✓	100.0	88.8	88.8
p1 Cal 6-250ng	6	✓	250.0	204.6	81.8
p1 Cal 7-500ng	7	✓	500.0	519.1	103.8
p1 Cal 8-1000ng	8	✓	1000.0	1038.0	103.8

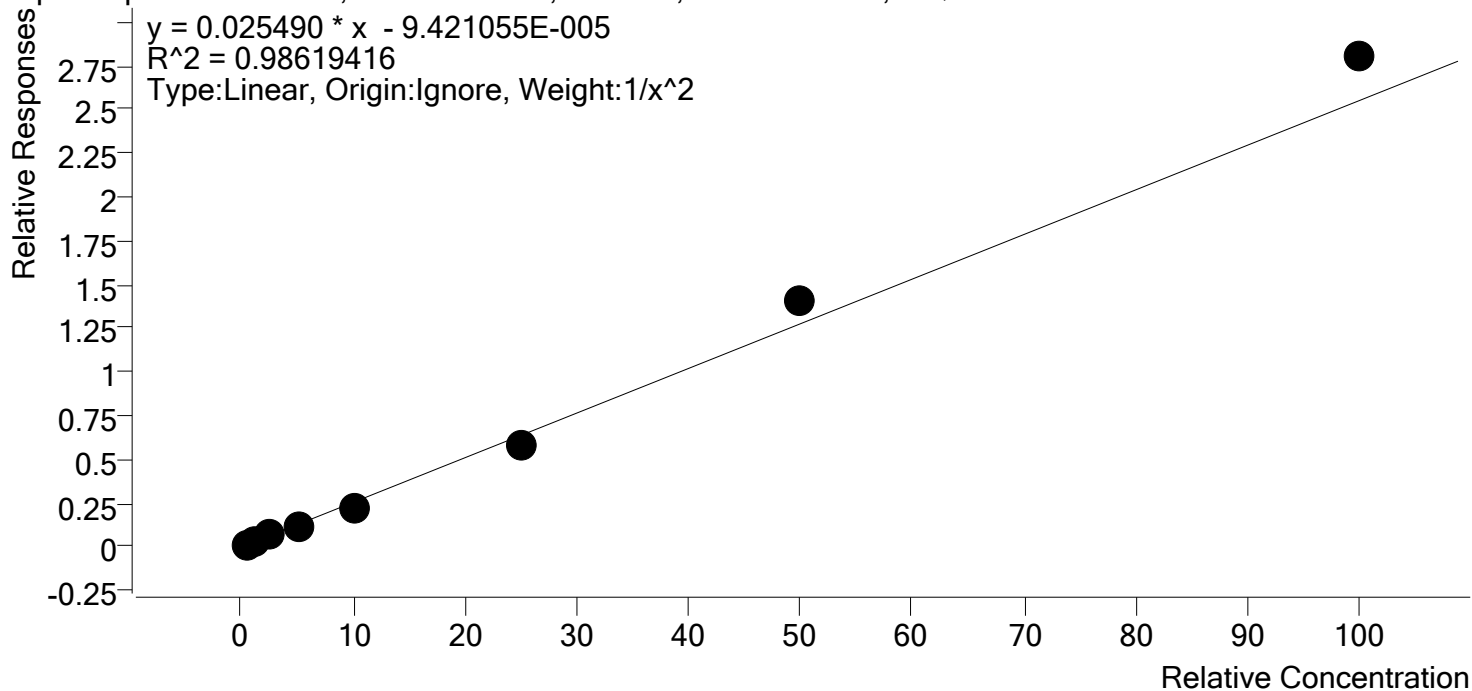


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.4
p1 Cal 2- 10ng	2	✓	1.0	0.9	93.0
p1 Cal 3 -25ng	3	✓	2.5	2.8	113.0
p1 Cal 4-50ng	4	✓	5.0	4.5	89.9
p1 Cal 5-100ng	5	✓	10.0	9.0	90.1
p1 Cal 6-250ng	6	✓	25.0	22.6	90.5
p1 Cal 7-500ng	7	✓	50.0	55.6	111.2
p1 Cal 8-1000ng	8	✓	100.0	109.9	109.9

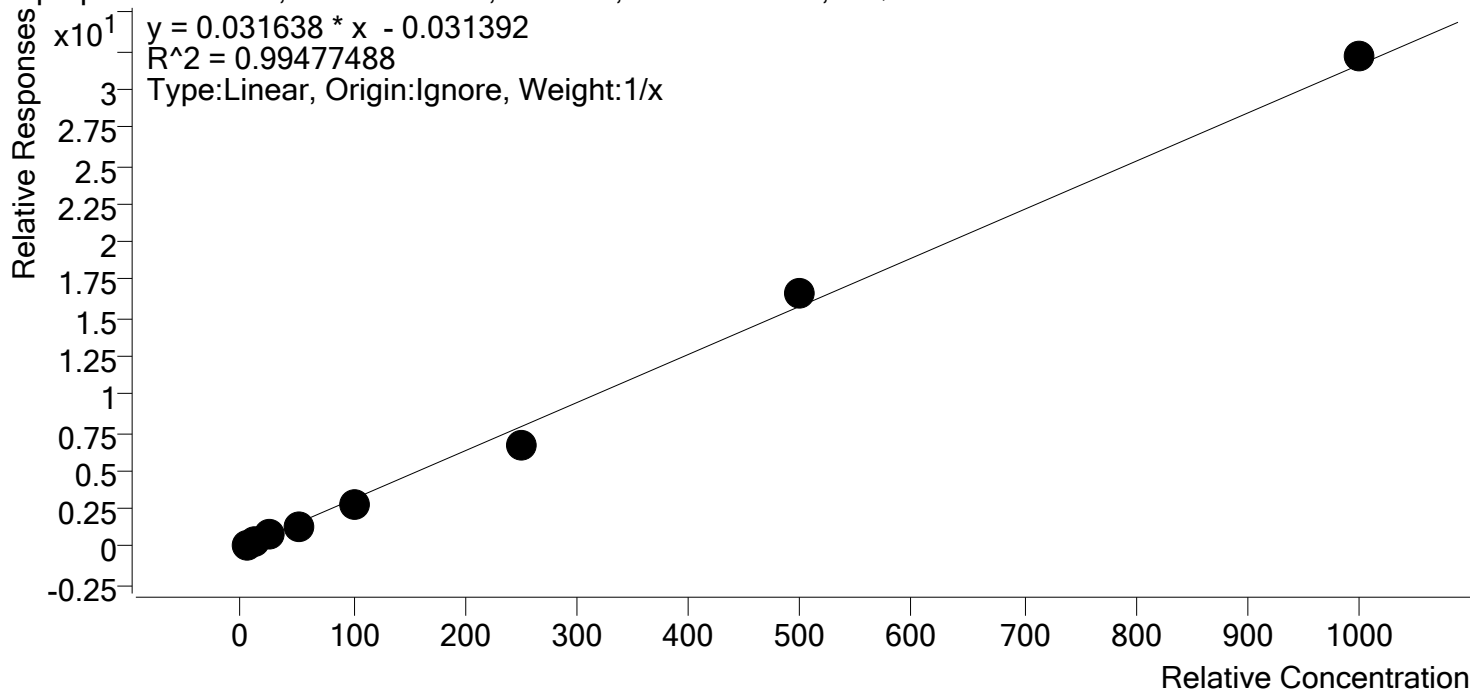


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	28.4	113.6
p1 Cal 4-50ng	4	✓	50.0	45.5	91.1
p1 Cal 5-100ng	5	✓	100.0	90.2	90.2
p1 Cal 6-250ng	6	✓	250.0	213.3	85.3
p1 Cal 7-500ng	7	✓	500.0	529.6	105.9
p1 Cal 8-1000ng	8	✓	1000.0	1017.2	101.7

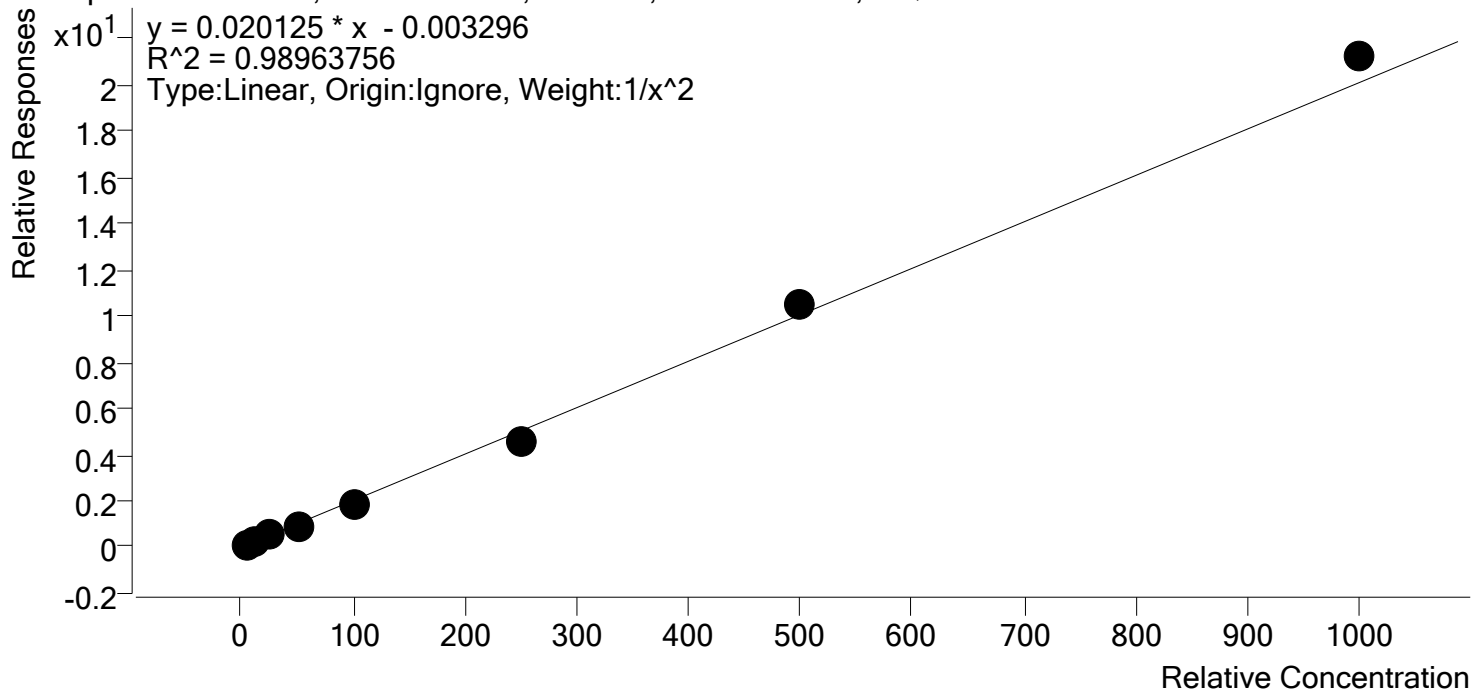


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

\$

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	29.1	116.5
p1 Cal 4-50ng	4	✓	50.0	46.2	92.4
p1 Cal 5-100ng	5	✓	100.0	93.1	93.1
p1 Cal 6-250ng	6	✓	250.0	223.1	89.2
p1 Cal 7-500ng	7	✓	500.0	522.7	104.5
p1 Cal 8-1000ng	8	✓	1000.0	1056.0	105.6

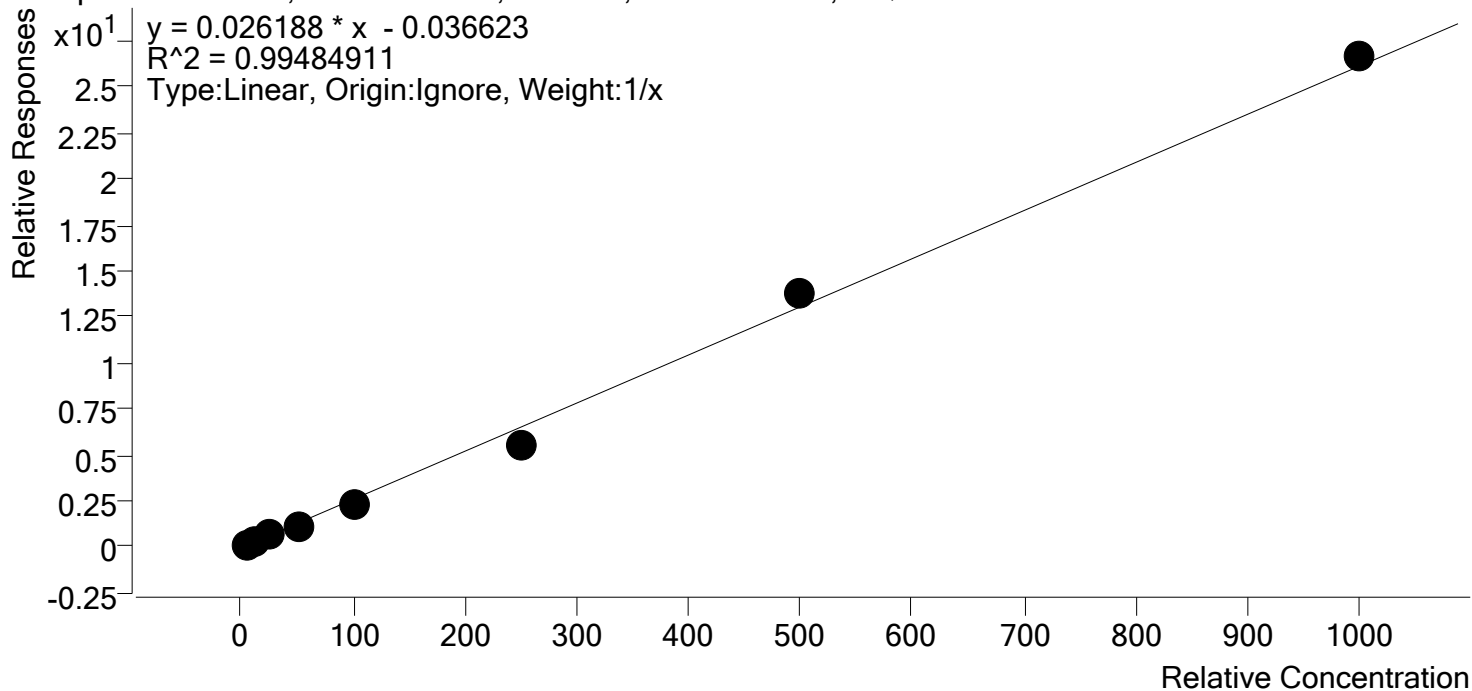


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	113.2
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	28.3	113.0
p1 Cal 4-50ng	4	✓	50.0	44.3	88.5
p1 Cal 5-100ng	5	✓	100.0	89.1	89.1
p1 Cal 6-250ng	6	✓	250.0	215.0	86.0
p1 Cal 7-500ng	7	✓	500.0	527.4	105.5
p1 Cal 8-1000ng	8	✓	1000.0	1020.1	102.0

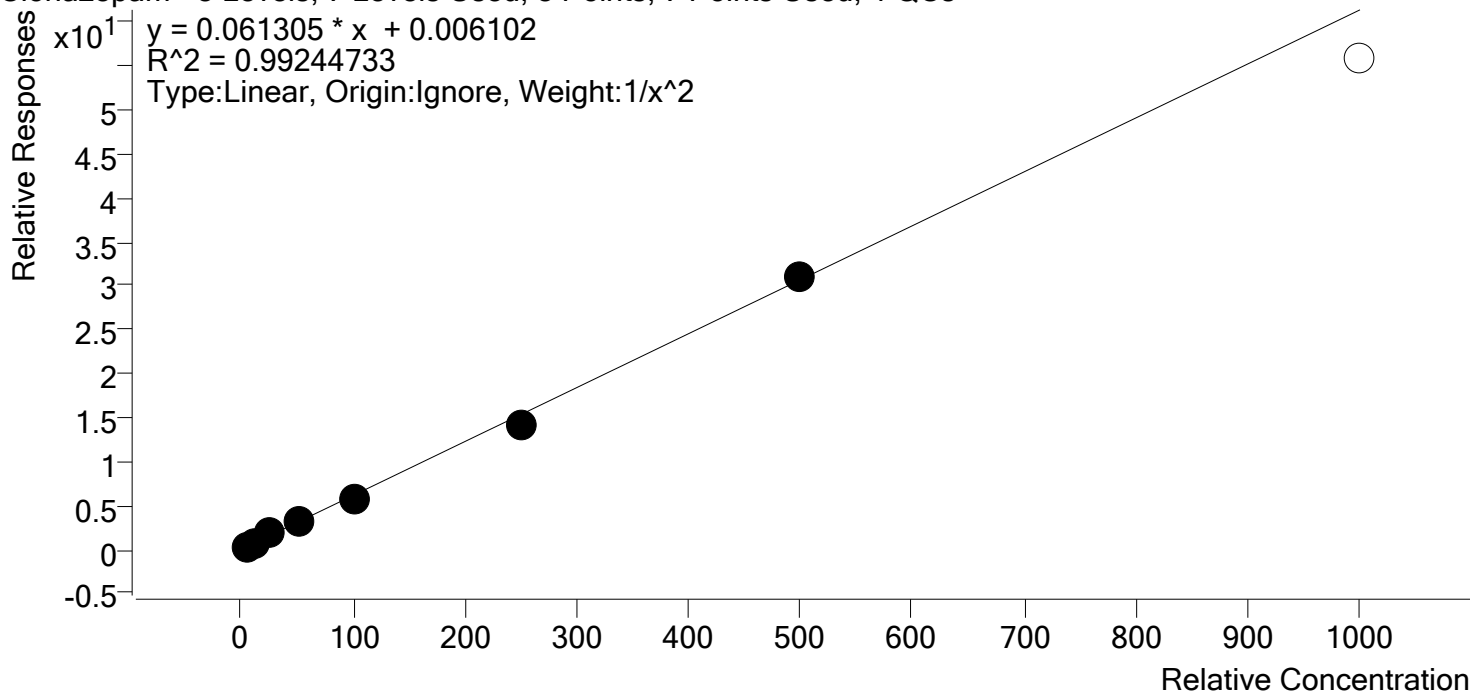


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

5

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



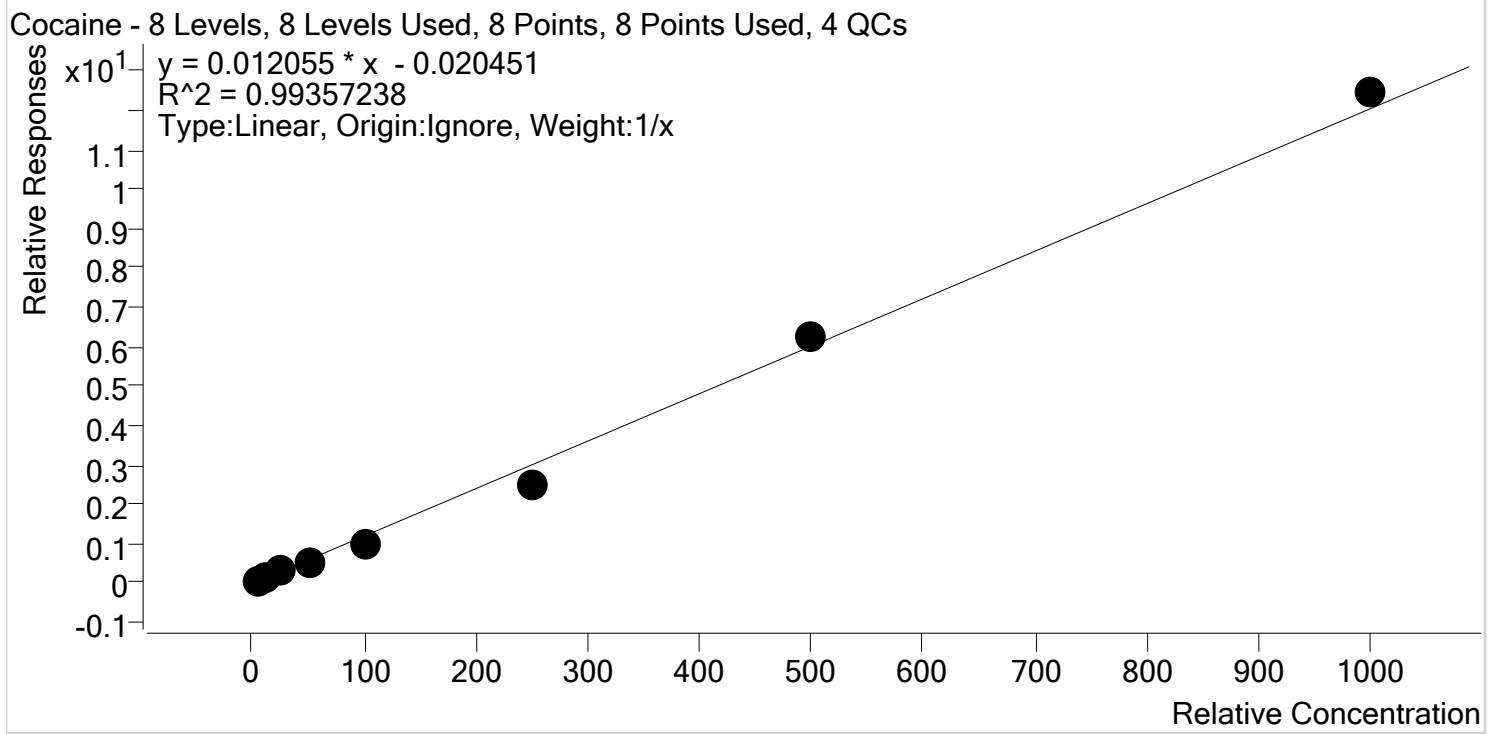
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	28.9	115.6
p1 Cal 4-50ng	4	✓	50.0	48.5	97.1
p1 Cal 5-100ng	5	✓	100.0	95.5	95.5
p1 Cal 6-250ng	6	✓	250.0	233.2	93.3
p1 Cal 7-500ng	7	✓	500.0	503.8	100.8
p1 Cal 8-1000ng	8	✗	1000.0	910.3	91.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

5



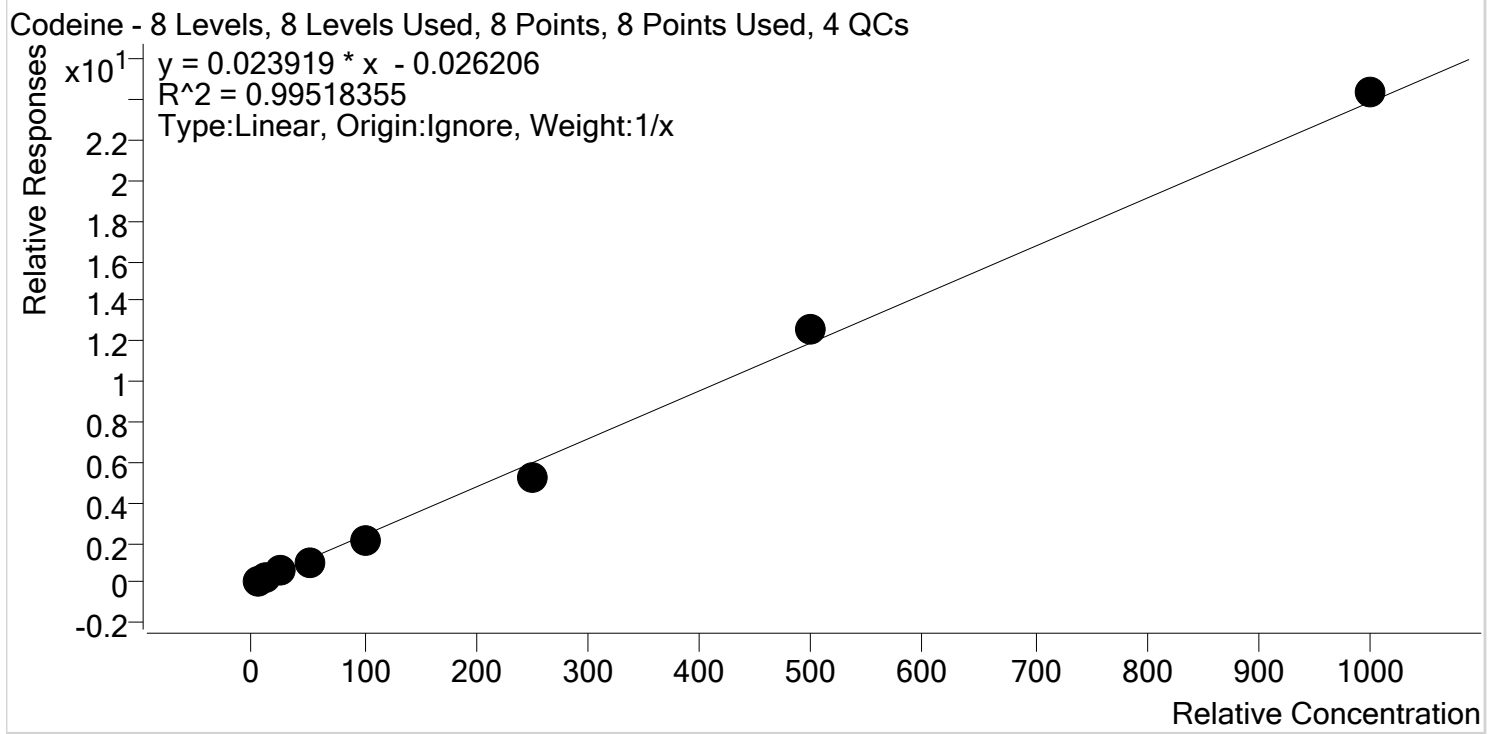
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.0	119.4
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	27.7	110.6
p1 Cal 4-50ng	4	✓	50.0	43.2	86.4
p1 Cal 5-100ng	5	✓	100.0	86.3	86.3
p1 Cal 6-250ng	6	✓	250.0	211.0	84.4
p1 Cal 7-500ng	7	✓	500.0	521.2	104.2
p1 Cal 8-1000ng	8	✓	1000.0	1034.1	103.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Codeine **Internal Standard** Codeine-D6

\$



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	29.0	116.0
p1 Cal 4-50ng	4	✓	50.0	44.9	89.8
p1 Cal 5-100ng	5	✓	100.0	89.1	89.1
p1 Cal 6-250ng	6	✓	250.0	216.4	86.6
p1 Cal 7-500ng	7	✓	500.0	525.2	105.0
p1 Cal 8-1000ng	8	✓	1000.0	1019.7	102.0

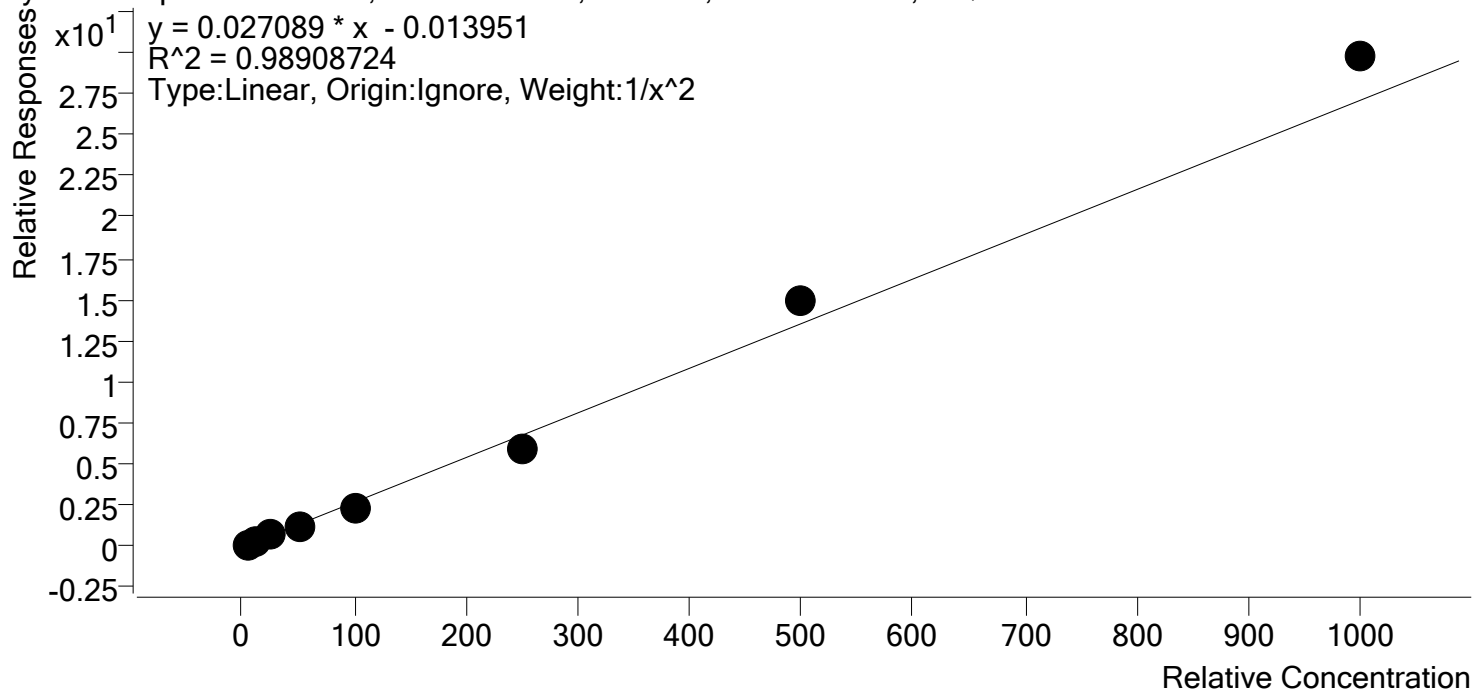


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	27.5	109.9
p1 Cal 4-50ng	4	✓	50.0	45.6	91.1
p1 Cal 5-100ng	5	✓	100.0	90.4	90.4
p1 Cal 6-250ng	6	✓	250.0	222.5	89.0
p1 Cal 7-500ng	7	✓	500.0	548.2	109.6
p1 Cal 8-1000ng	8	✓	1000.0	1097.9	109.8

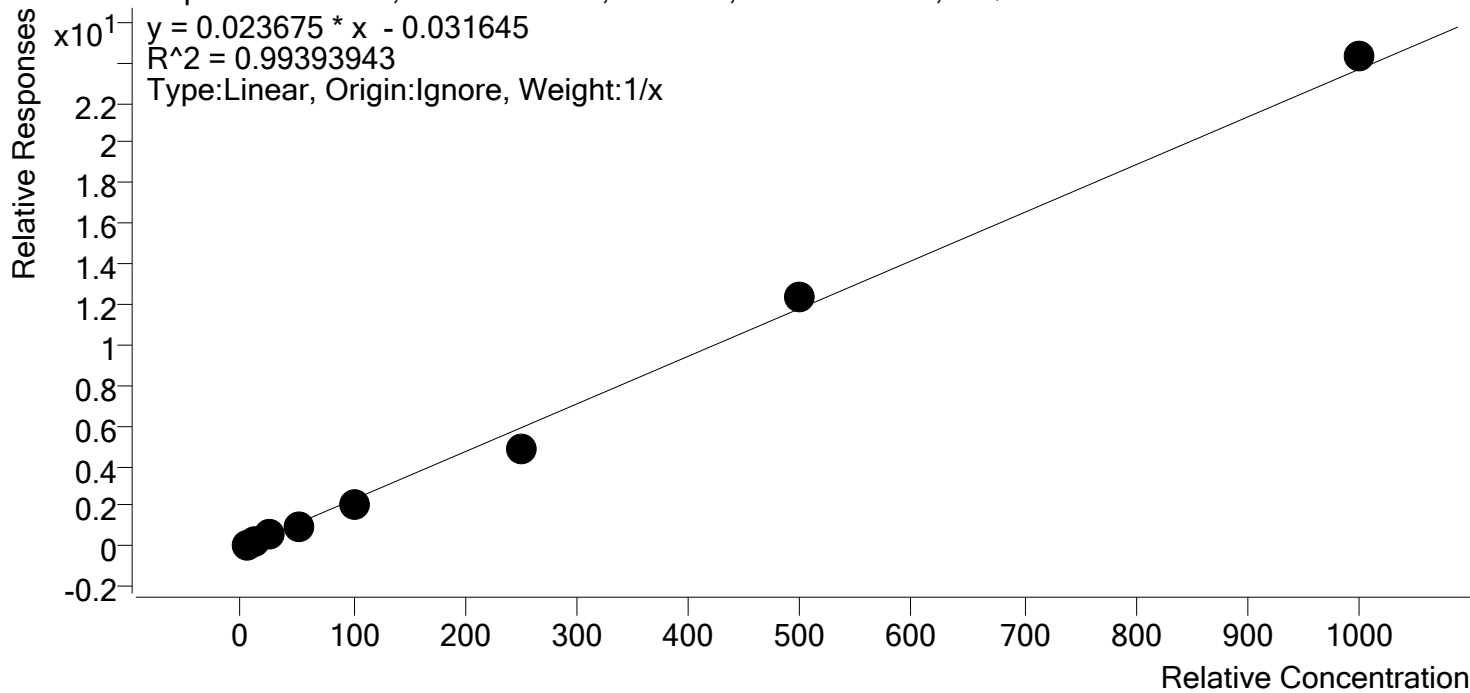


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

5

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	1	✓	5.0	5.6	112.7
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	28.3	113.3
p1 Cal 4-50ng	4	✓	50.0	44.6	89.1
p1 Cal 5-100ng	5	✓	100.0	89.2	89.2
p1 Cal 6-250ng	6	✓	250.0	209.7	83.9
p1 Cal 7-500ng	7	✓	500.0	525.6	105.1
p1 Cal 8-1000ng	8	✓	1000.0	1026.5	102.6

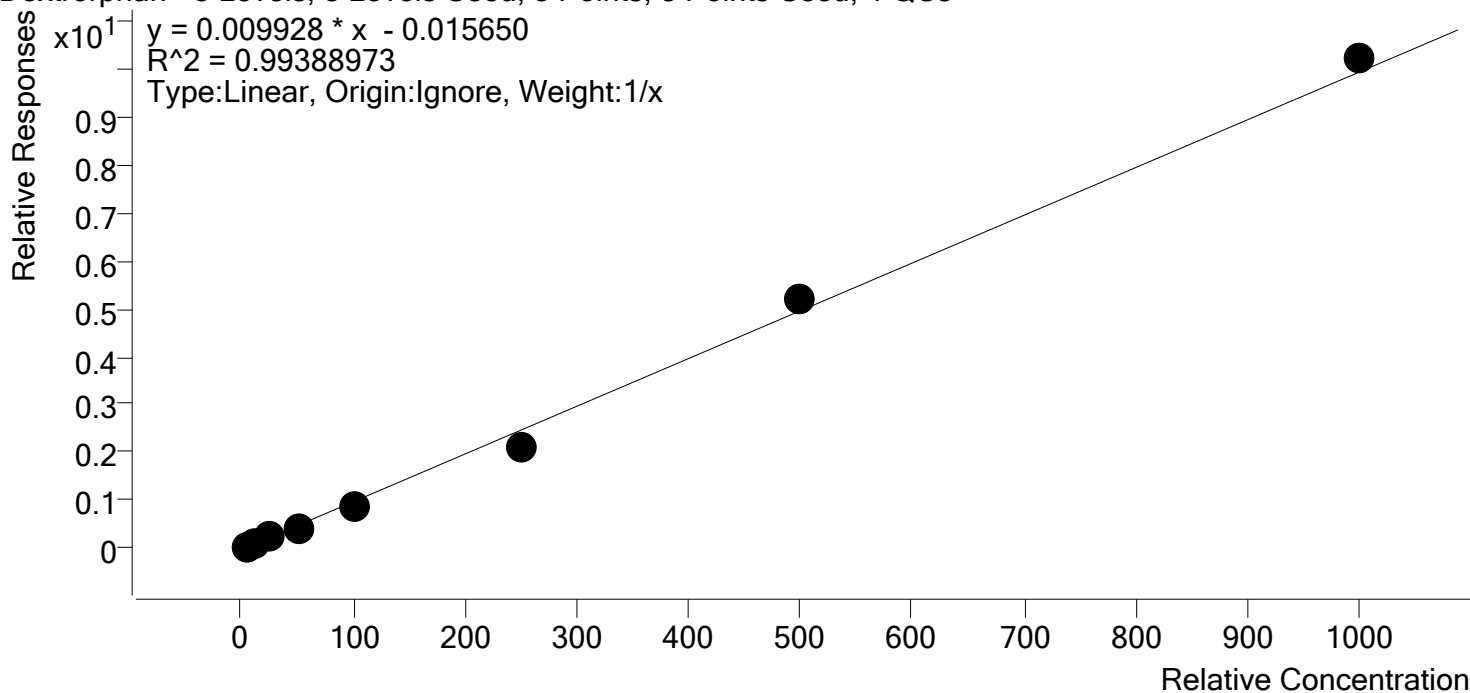


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.5
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.2
p1 Cal 3 -25ng	3	✓	25.0	27.3	109.2
p1 Cal 4-50ng	4	✓	50.0	43.8	87.6
p1 Cal 5-100ng	5	✓	100.0	87.0	87.0
p1 Cal 6-250ng	6	✓	250.0	211.5	84.6
p1 Cal 7-500ng	7	✓	500.0	525.6	105.1
p1 Cal 8-1000ng	8	✓	1000.0	1028.3	102.8

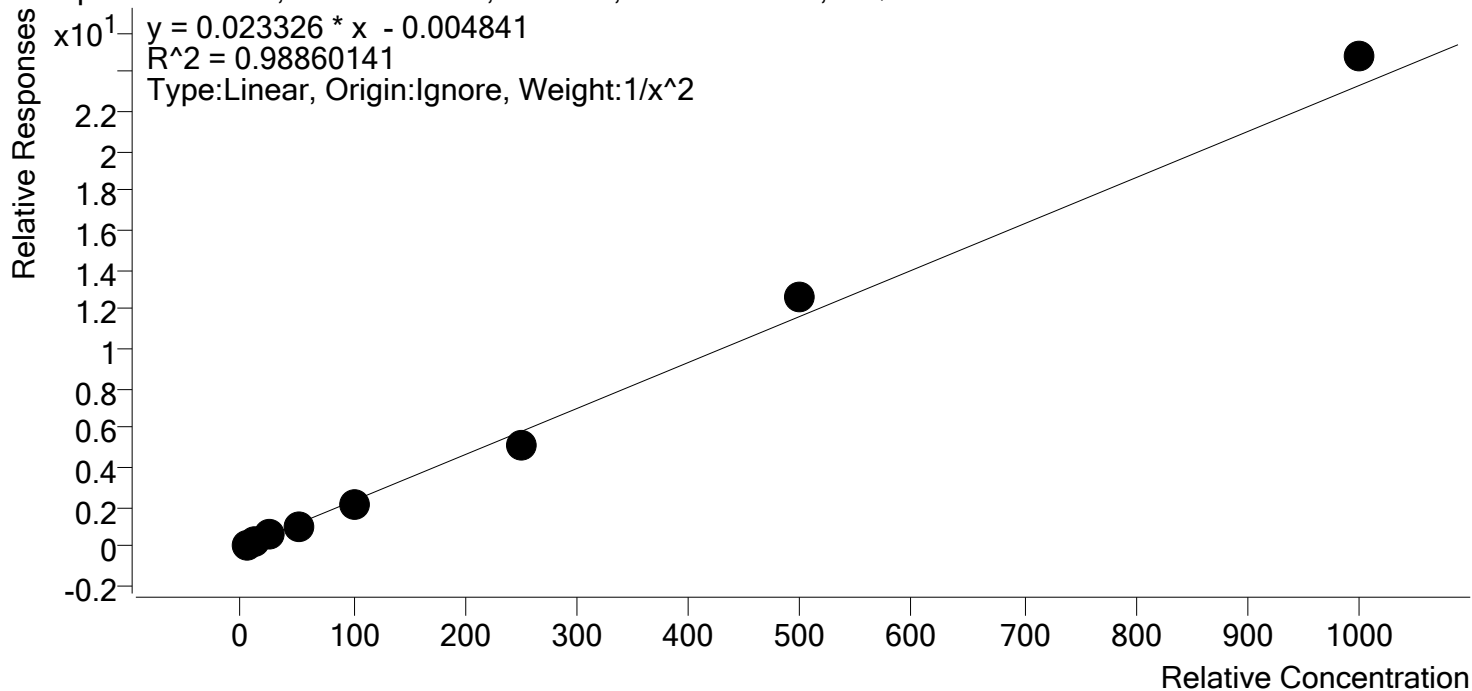


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

5

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



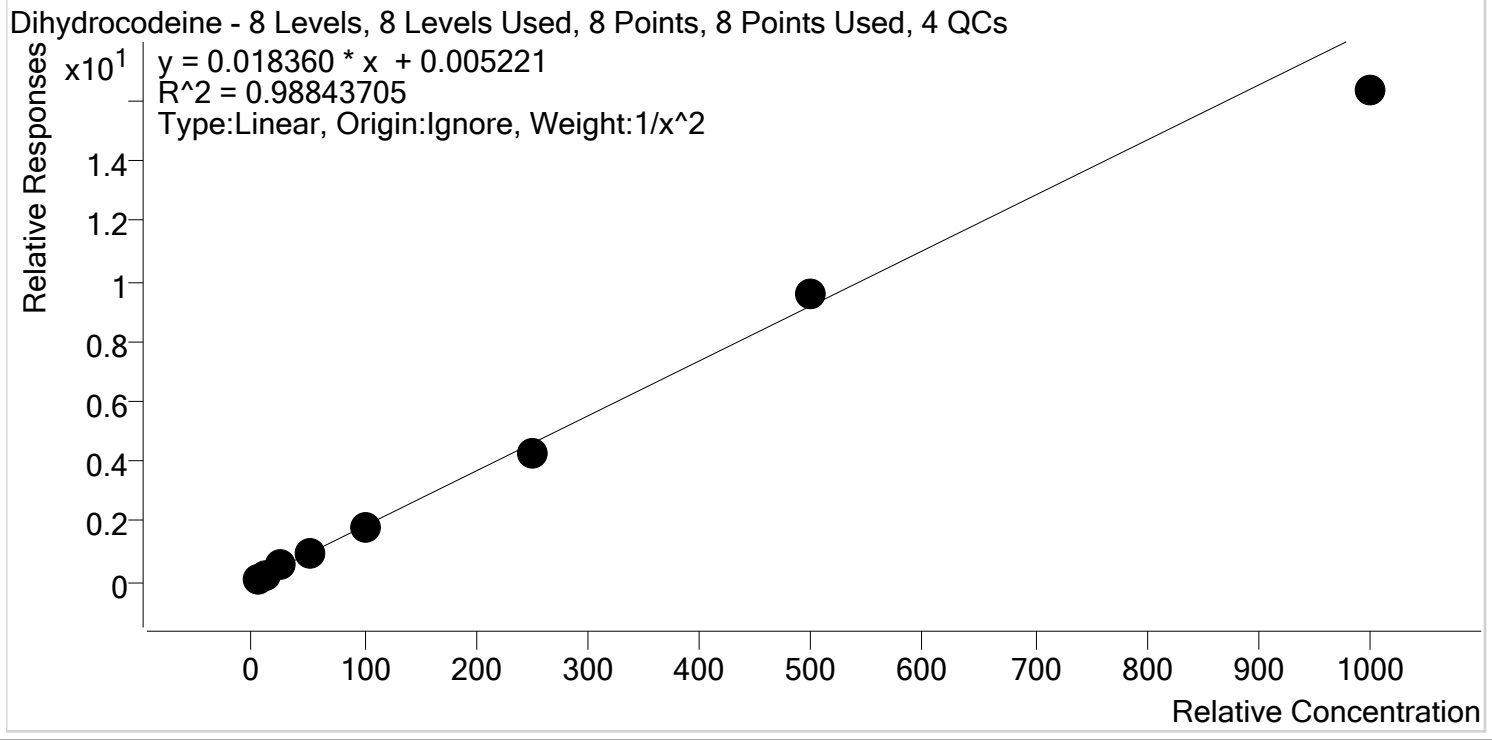
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	28.9	115.6
p1 Cal 4-50ng	4	✓	50.0	45.7	91.3
p1 Cal 5-100ng	5	✓	100.0	91.5	91.5
p1 Cal 6-250ng	6	✓	250.0	224.2	89.7
p1 Cal 7-500ng	7	✓	500.0	541.4	108.3
p1 Cal 8-1000ng	8	✓	1000.0	1062.6	106.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.4
p1 Cal 3 -25ng	3	✓	25.0	29.8	119.3
p1 Cal 4-50ng	4	✓	50.0	48.7	97.4
p1 Cal 5-100ng	5	✓	100.0	99.4	99.4
p1 Cal 6-250ng	6	✓	250.0	230.5	92.2
p1 Cal 7-500ng	7	✓	500.0	522.1	104.4
p1 Cal 8-1000ng	8	✓	1000.0	890.1	89.0

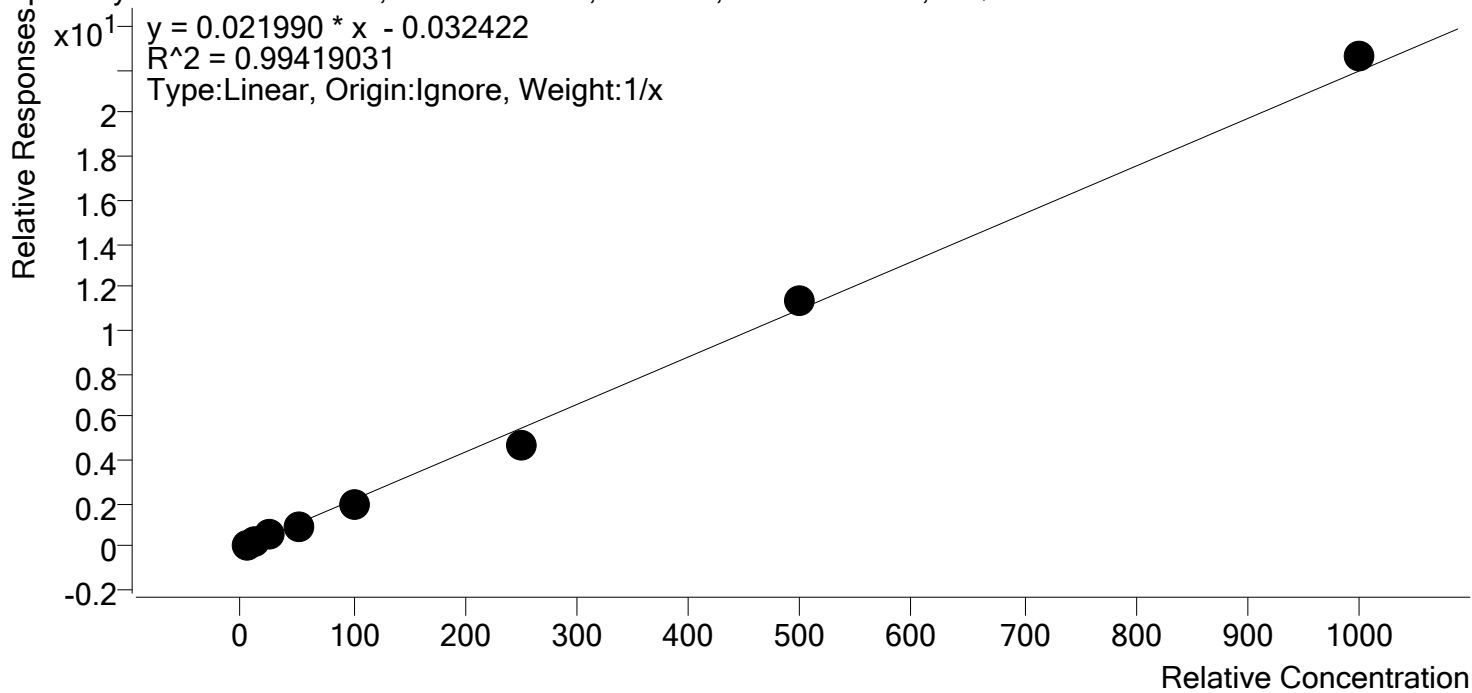


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	28.0	112.0
p1 Cal 4-50ng	4	✓	50.0	44.2	88.5
p1 Cal 5-100ng	5	✓	100.0	87.9	87.9
p1 Cal 6-250ng	6	✓	250.0	211.8	84.7
p1 Cal 7-500ng	7	✓	500.0	521.8	104.4
p1 Cal 8-1000ng	8	✓	1000.0	1030.2	103.0

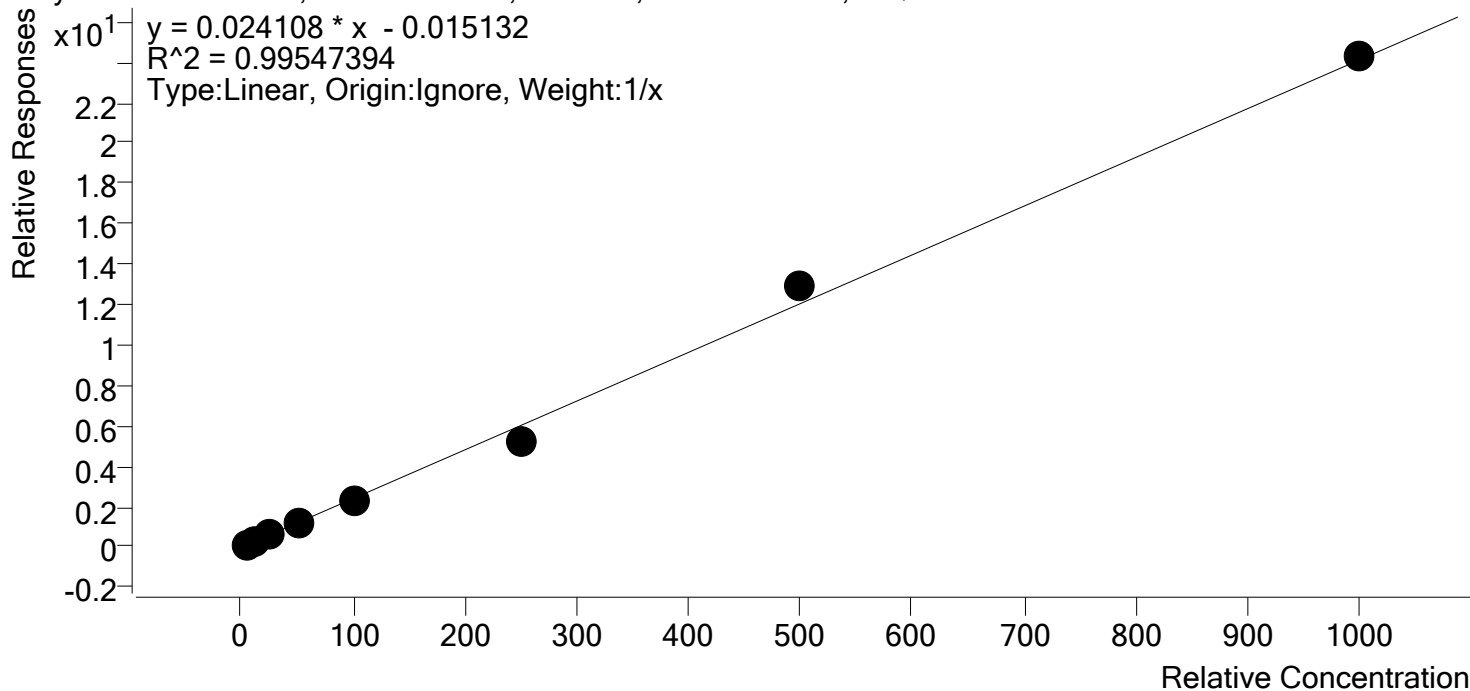


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	28.8	115.2
p1 Cal 4-50ng	4	✓	50.0	45.8	91.7
p1 Cal 5-100ng	5	✓	100.0	92.0	92.0
p1 Cal 6-250ng	6	✓	250.0	217.6	87.0
p1 Cal 7-500ng	7	✓	500.0	533.3	106.7
p1 Cal 8-1000ng	8	✓	1000.0	1007.1	100.7

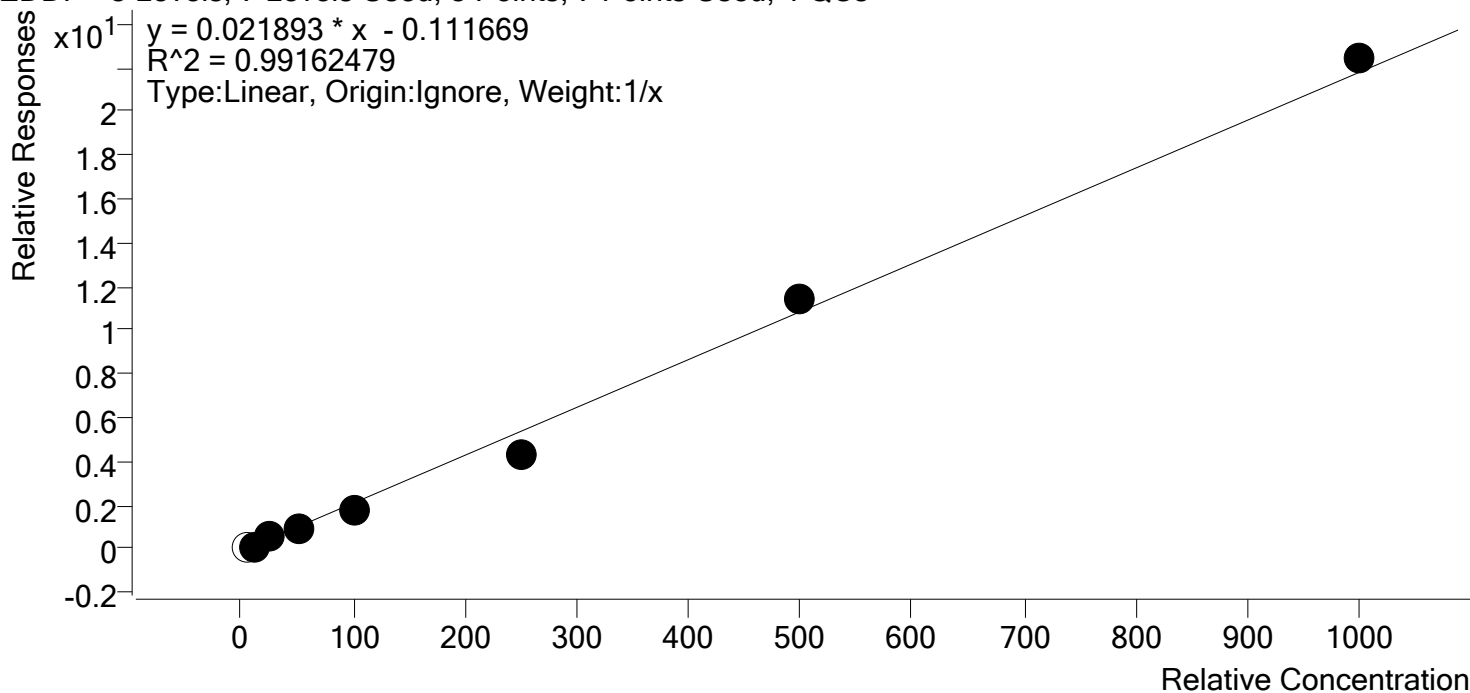


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte EDDP **Internal Standard** EDDP-D3

5

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



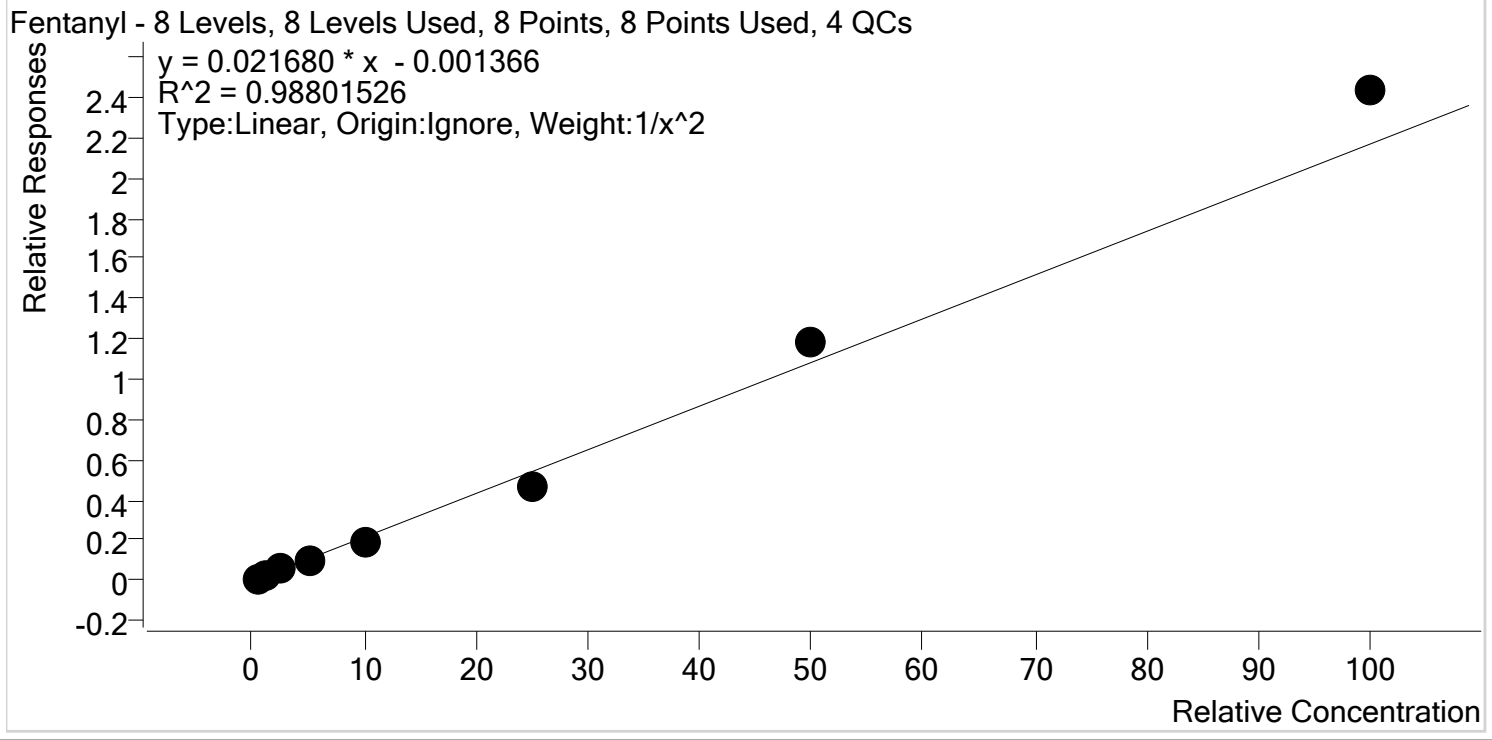
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	9.0	179.3
p1 Cal 2- 10ng	2	✓	10.0	11.5	115.1
p1 Cal 3 -25ng	3	✓	25.0	29.2	116.8
p1 Cal 4-50ng	4	✓	50.0	44.7	89.3
p1 Cal 5-100ng	5	✓	100.0	89.0	89.0
p1 Cal 6-250ng	6	✓	250.0	203.1	81.2
p1 Cal 7-500ng	7	✓	500.0	528.8	105.8
p1 Cal 8-1000ng	8	✓	1000.0	1028.8	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	99.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.1
p1 Cal 3 -25ng	3	✓	2.5	2.7	108.8
p1 Cal 4-50ng	4	✓	5.0	4.6	92.8
p1 Cal 5-100ng	5	✓	10.0	8.9	88.8
p1 Cal 6-250ng	6	✓	25.0	22.0	87.9
p1 Cal 7-500ng	7	✓	50.0	54.6	109.3
p1 Cal 8-1000ng	8	✓	100.0	112.2	112.2

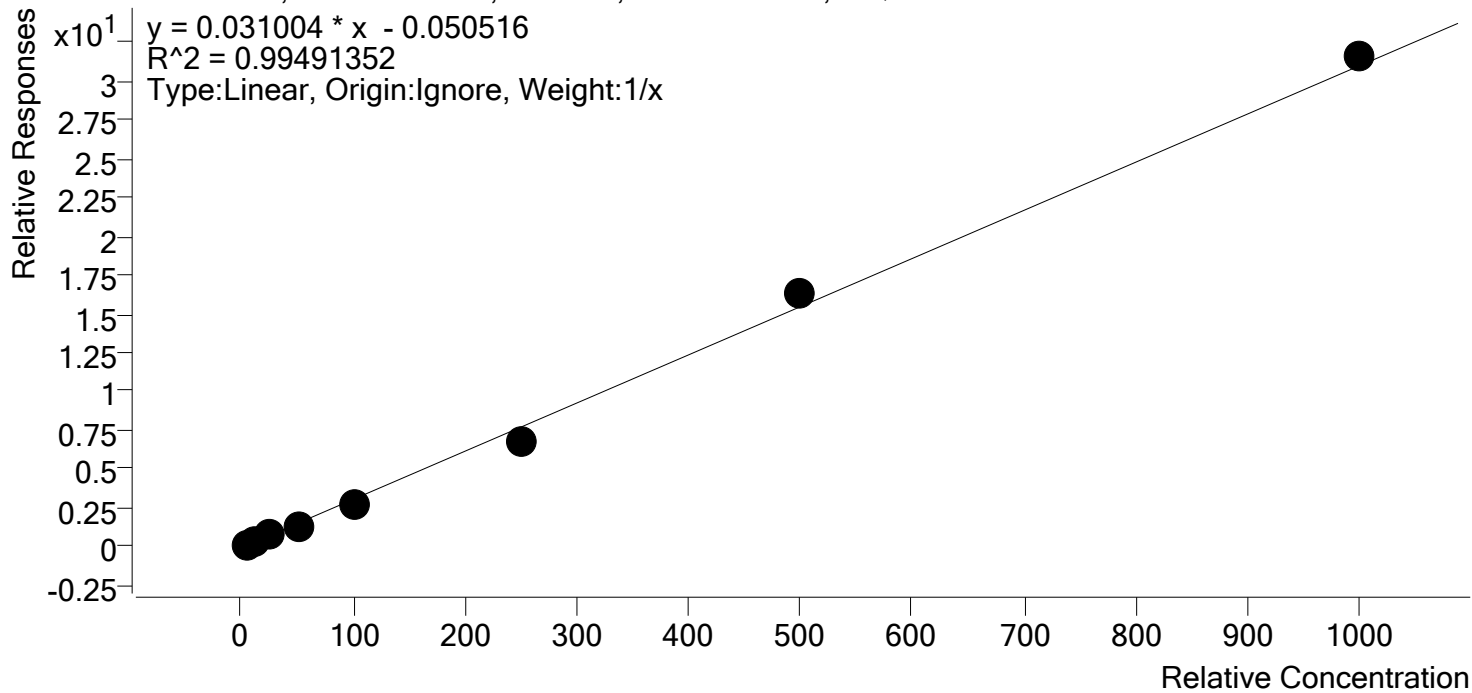


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.3
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.9
p1 Cal 3 -25ng	3	✓	25.0	27.4	109.7
p1 Cal 4-50ng	4	✓	50.0	43.6	87.2
p1 Cal 5-100ng	5	✓	100.0	87.2	87.2
p1 Cal 6-250ng	6	✓	250.0	217.6	87.0
p1 Cal 7-500ng	7	✓	500.0	528.6	105.7
p1 Cal 8-1000ng	8	✓	1000.0	1019.3	101.9

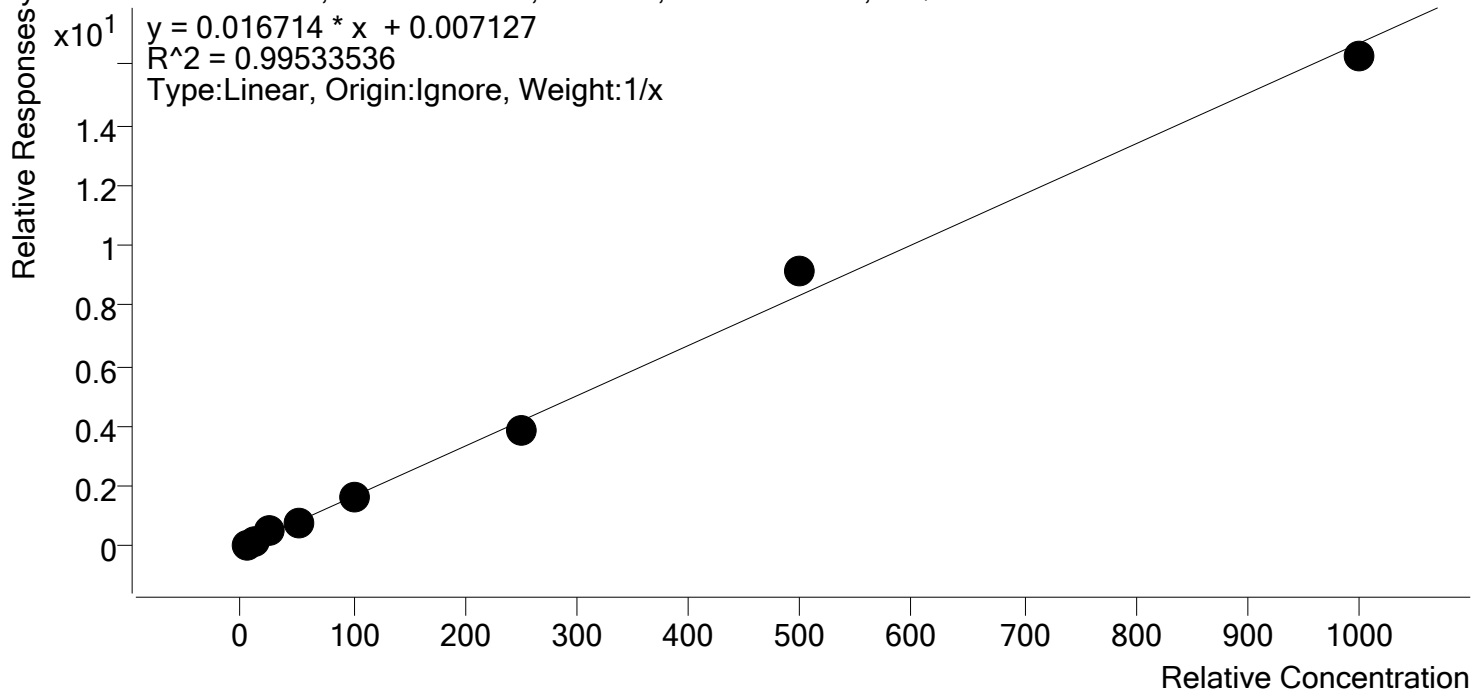


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.4	88.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	29.6	118.5
p1 Cal 4-50ng	4	✓	50.0	48.1	96.3
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	228.3	91.3
p1 Cal 7-500ng	7	✓	500.0	548.3	109.7
p1 Cal 8-1000ng	8	✓	1000.0	973.4	97.3

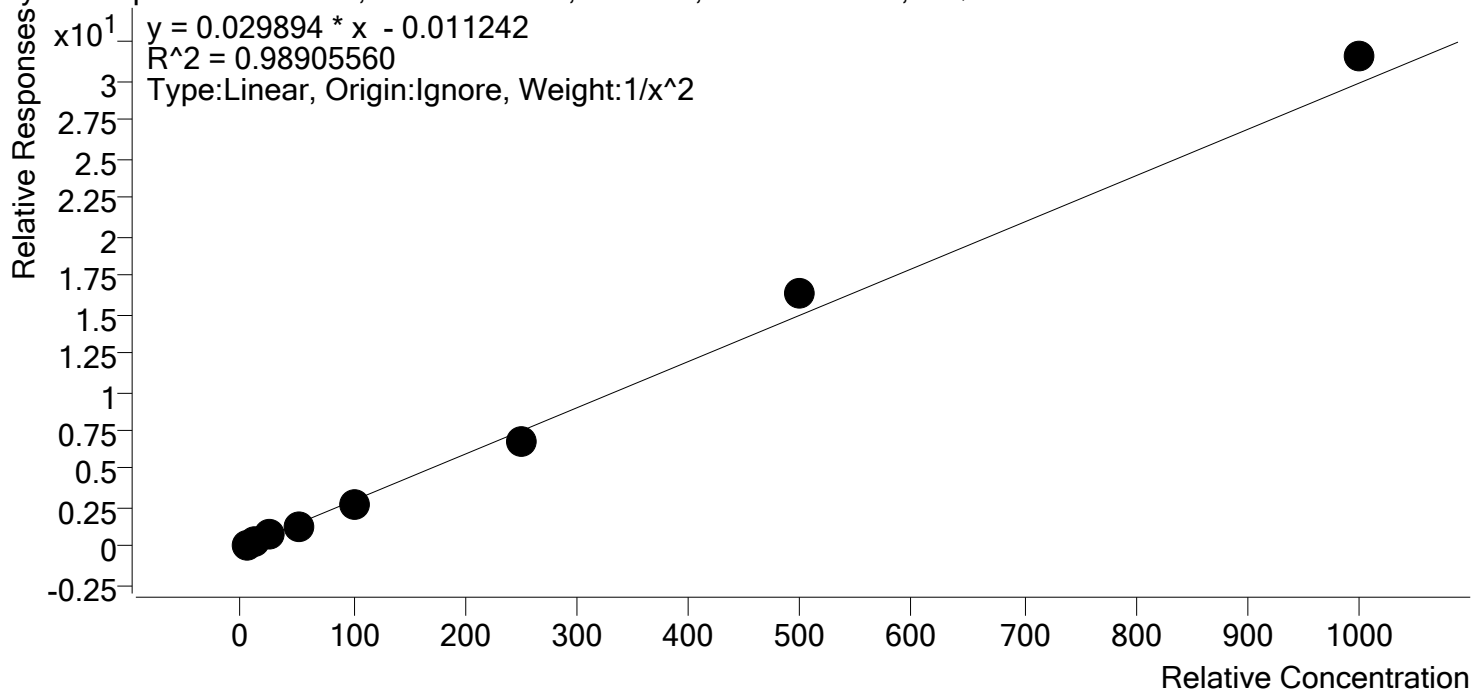


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng	3	✓	25.0	28.4	113.6
p1 Cal 4-50ng	4	✓	50.0	45.5	91.0
p1 Cal 5-100ng	5	✓	100.0	90.8	90.8
p1 Cal 6-250ng	6	✓	250.0	225.6	90.3
p1 Cal 7-500ng	7	✓	500.0	550.7	110.1
p1 Cal 8-1000ng	8	✓	1000.0	1057.1	105.7

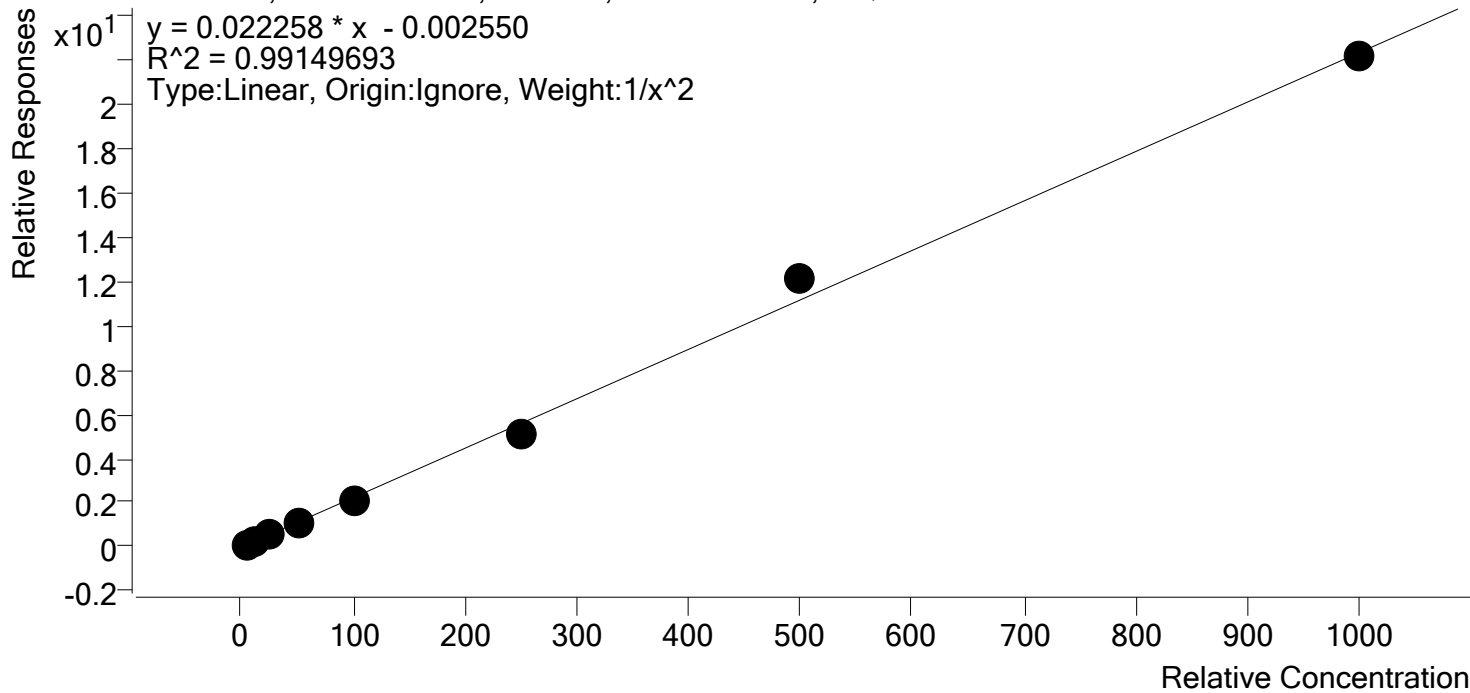


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

5

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



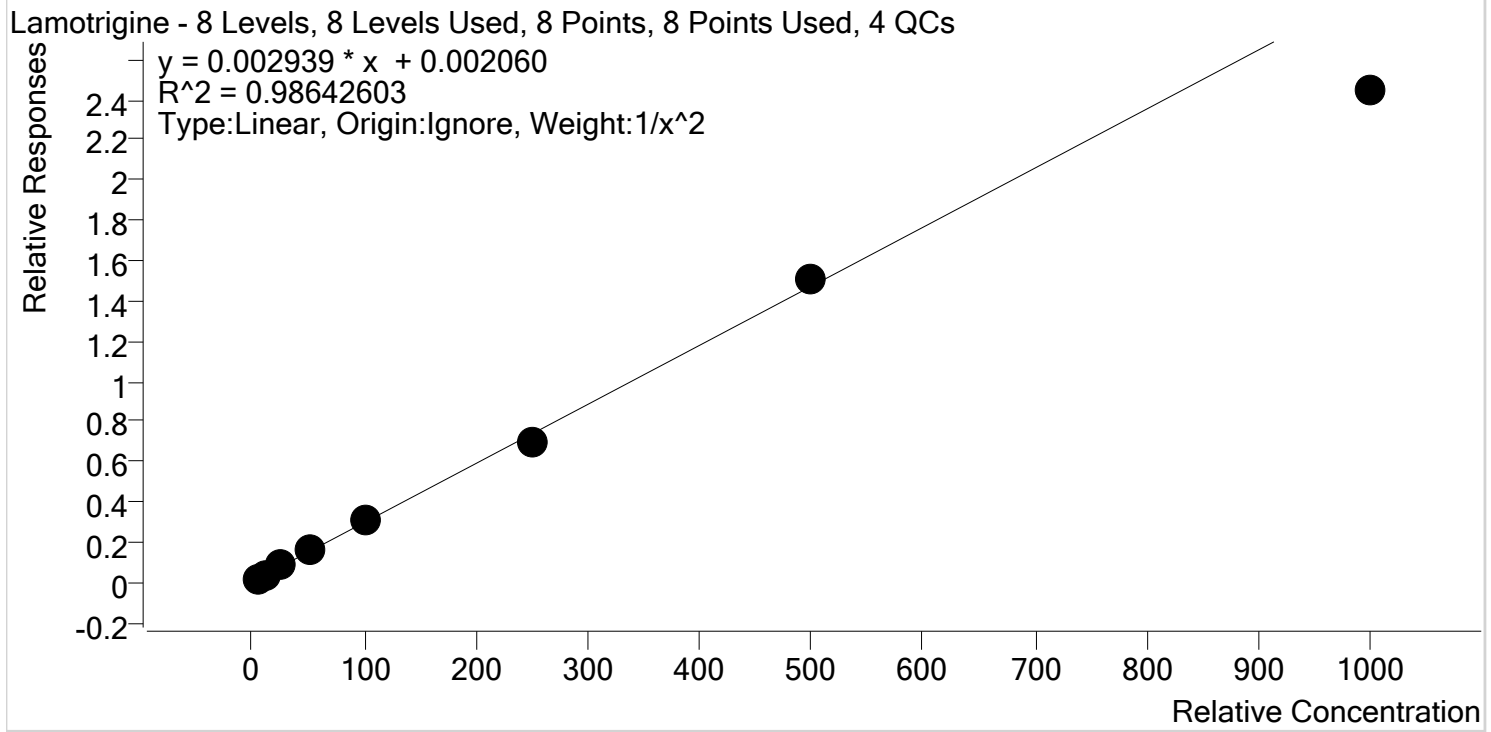
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	28.8	115.1
p1 Cal 4-50ng	4	✓	50.0	47.2	94.4
p1 Cal 5-100ng	5	✓	100.0	93.9	93.9
p1 Cal 6-250ng	6	✓	250.0	227.5	91.0
p1 Cal 7-500ng	7	✓	500.0	540.9	108.2
p1 Cal 8-1000ng	8	✓	1000.0	992.1	99.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

5



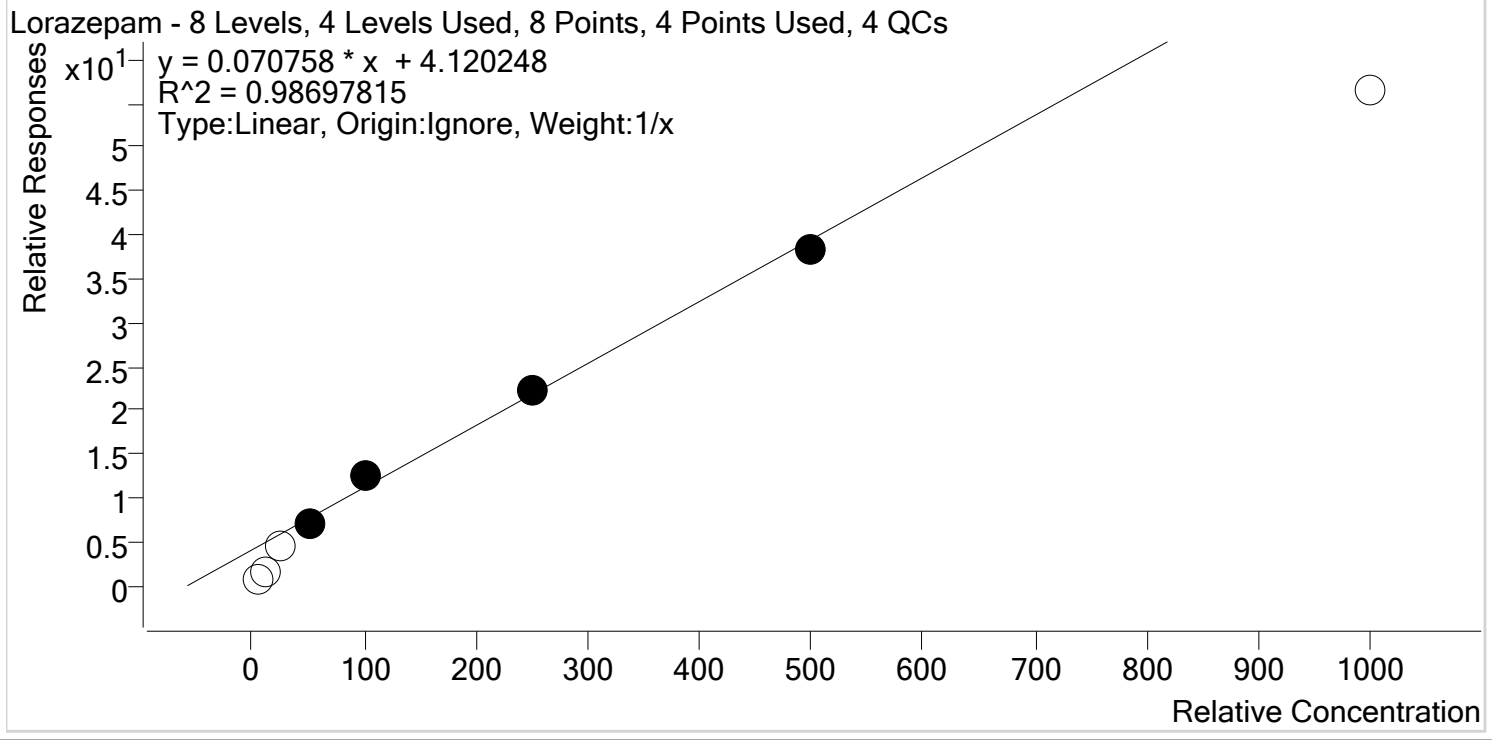
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	9.6	95.7
p1 Cal 3 -25ng	3	✓	25.0	29.5	117.8
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	106.7	106.7
p1 Cal 6-250ng	6	✓	250.0	233.6	93.4
p1 Cal 7-500ng	7	✓	500.0	511.1	102.2
p1 Cal 8-1000ng	8	✓	1000.0	831.3	83.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

5



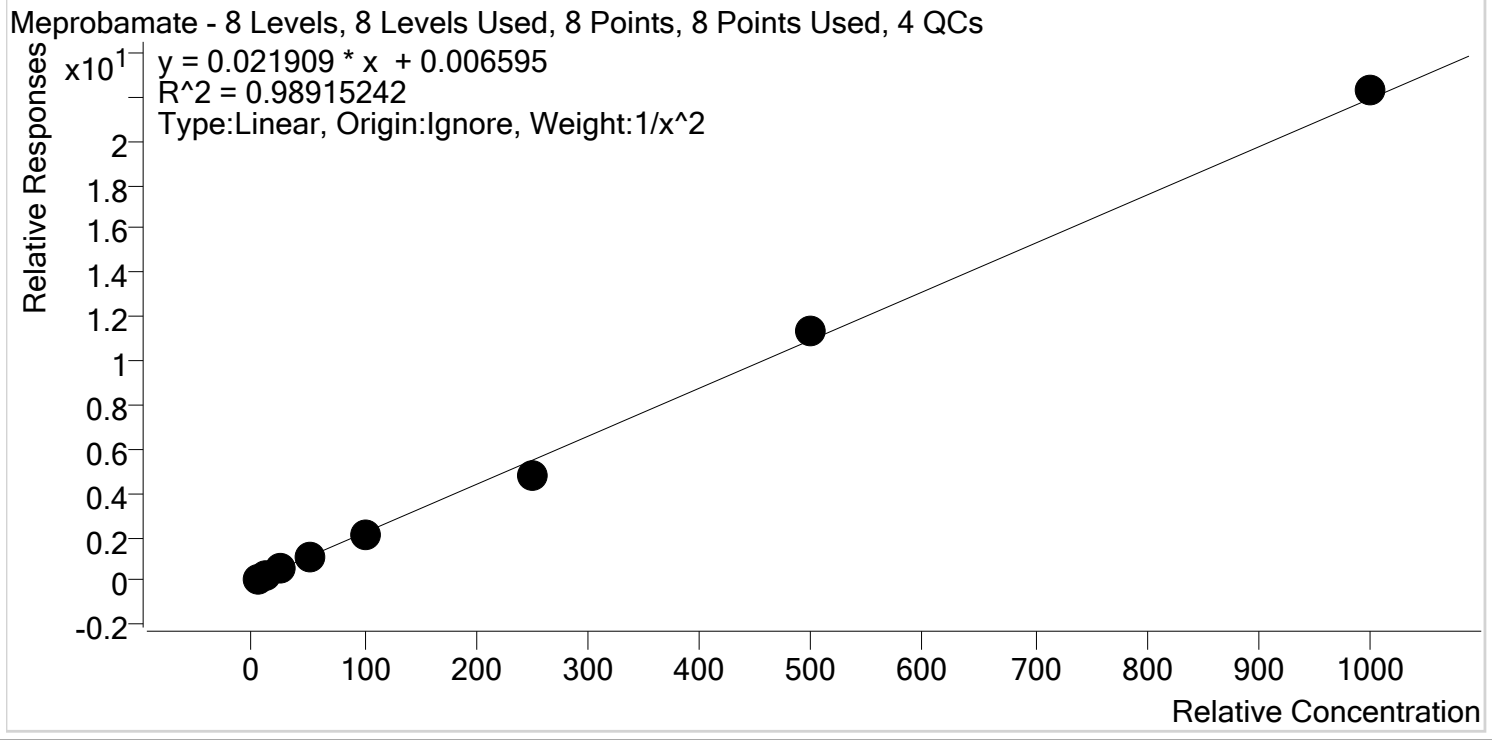
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	0.0	0.0
p1 Cal 2- 10ng	2	x	10.0	0.0	0.0
p1 Cal 3 -25ng	3	x	25.0	8.4	33.5
p1 Cal 4-50ng	4	✓	50.0	40.9	81.7
p1 Cal 5-100ng	5	✓	100.0	118.3	118.3
p1 Cal 6-250ng	6	✓	250.0	259.2	103.7
p1 Cal 7-500ng	7	✓	500.0	481.7	96.3
p1 Cal 8-1000ng	8	x	1000.0	740.0	74.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

5



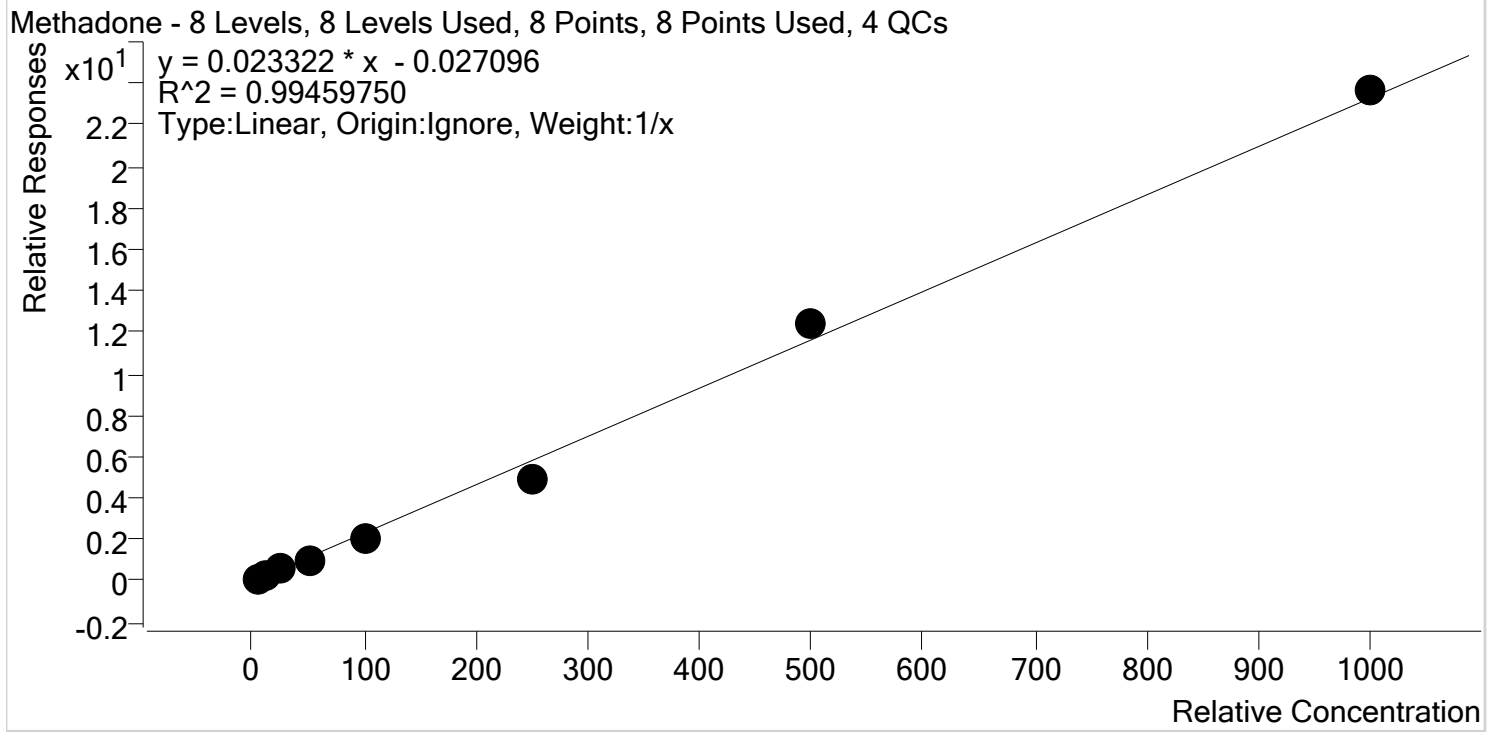
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	29.5	118.0
p1 Cal 4-50ng	4	✓	50.0	48.1	96.1
p1 Cal 5-100ng	5	✓	100.0	95.8	95.8
p1 Cal 6-250ng	6	✓	250.0	216.2	86.5
p1 Cal 7-500ng	7	✓	500.0	517.6	103.5
p1 Cal 8-1000ng	8	✓	1000.0	1016.9	101.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Methadone **Internal Standard** Methadone-D9

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	111.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	28.6	114.3
p1 Cal 4-50ng	4	✓	50.0	44.9	89.8
p1 Cal 5-100ng	5	✓	100.0	88.9	88.9
p1 Cal 6-250ng	6	✓	250.0	214.5	85.8
p1 Cal 7-500ng	7	✓	500.0	531.5	106.3
p1 Cal 8-1000ng	8	✓	1000.0	1015.9	101.6

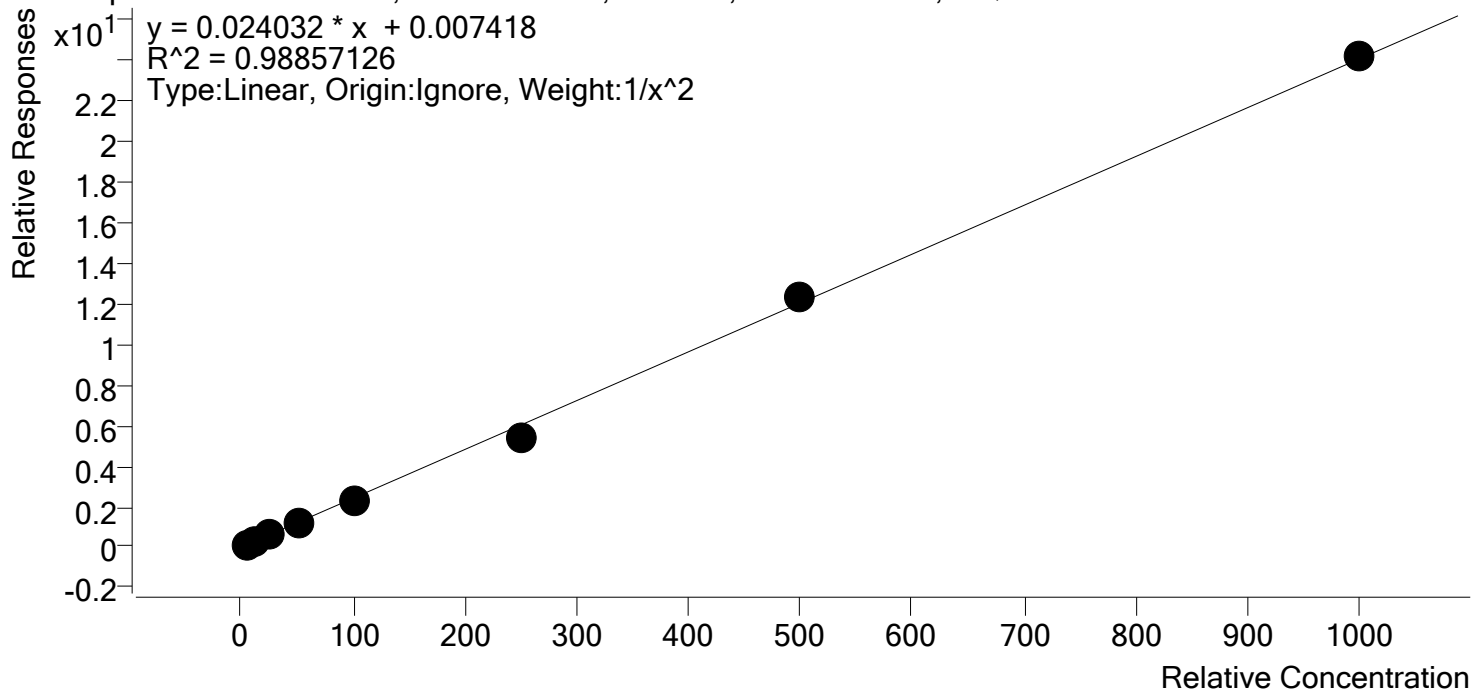


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.3
p1 Cal 3 -25ng	3	✓	25.0	29.8	119.3
p1 Cal 4-50ng	4	✓	50.0	47.3	94.5
p1 Cal 5-100ng	5	✓	100.0	95.8	95.8
p1 Cal 6-250ng	6	✓	250.0	220.4	88.2
p1 Cal 7-500ng	7	✓	500.0	512.8	102.6
p1 Cal 8-1000ng	8	✓	1000.0	1004.8	100.5

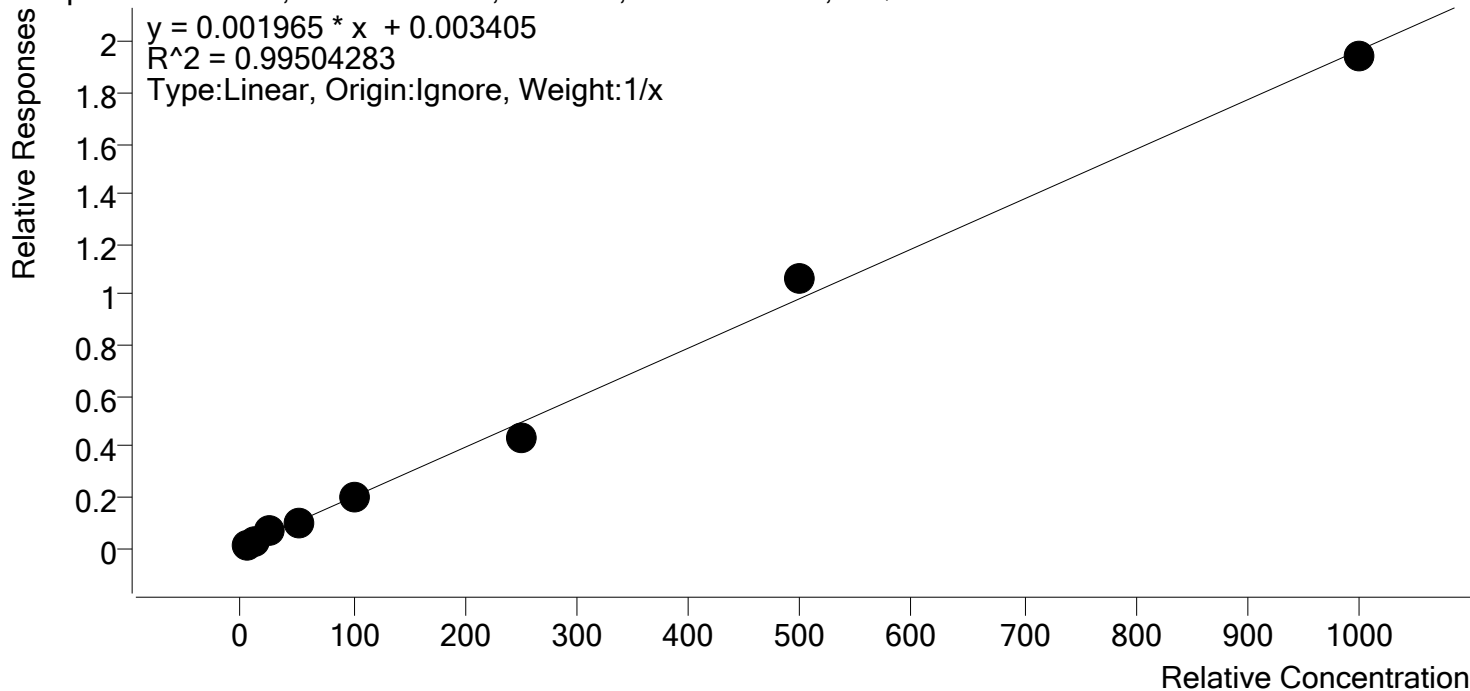


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

5

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



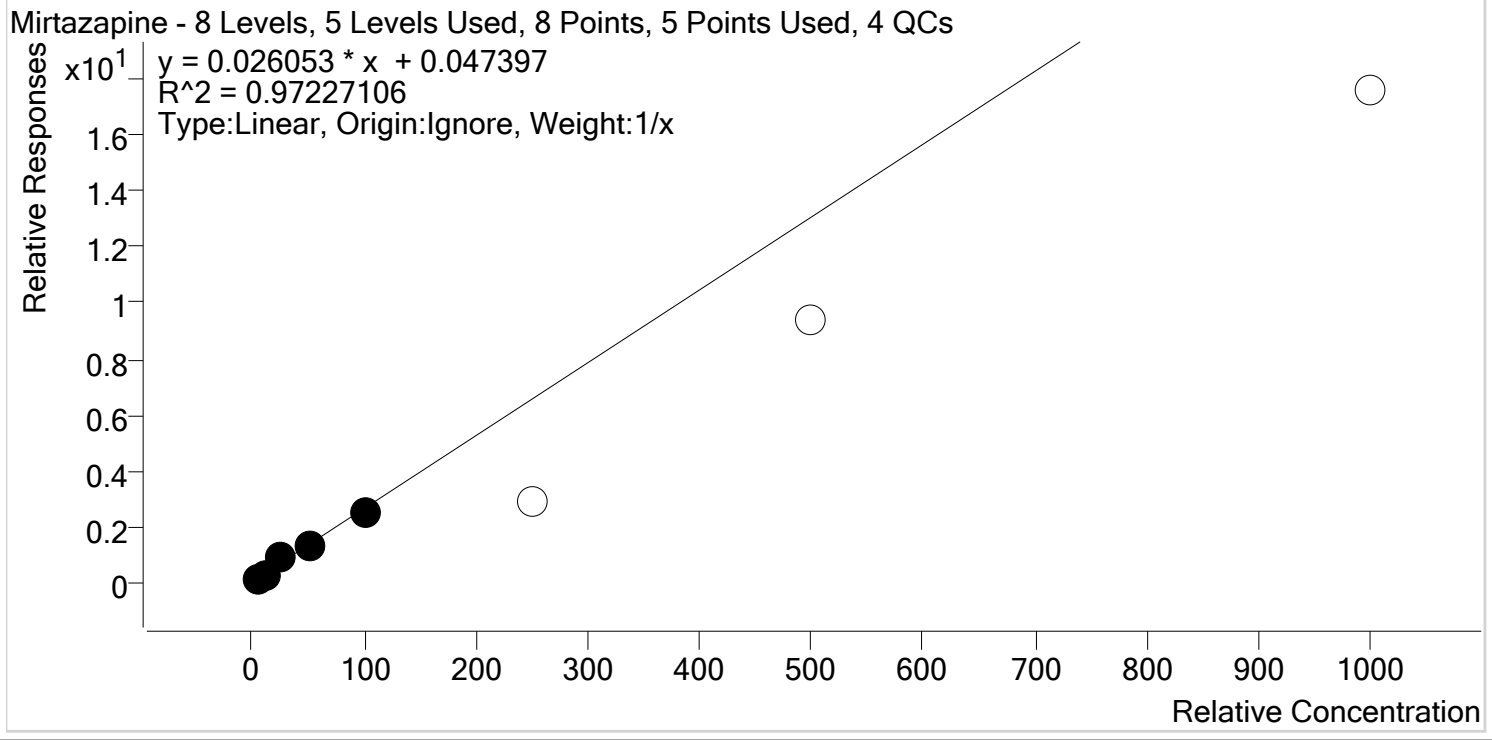
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.8	76.3
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.4
p1 Cal 3 -25ng	3	✓	25.0	29.9	119.7
p1 Cal 4-50ng	4	✓	50.0	50.6	101.3
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	217.2	86.9
p1 Cal 7-500ng	7	✓	500.0	538.6	107.7
p1 Cal 8-1000ng	8	✓	1000.0	987.1	98.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

§



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	3.6	71.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	33.1	132.6
p1 Cal 4-50ng	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng	5	✓	100.0	93.6	93.6
p1 Cal 6-250ng	6	x	250.0	109.1	43.6
p1 Cal 7-500ng	7	x	500.0	358.6	71.7
p1 Cal 8-1000ng	8	x	1000.0	673.6	67.4

Did not evaluate.

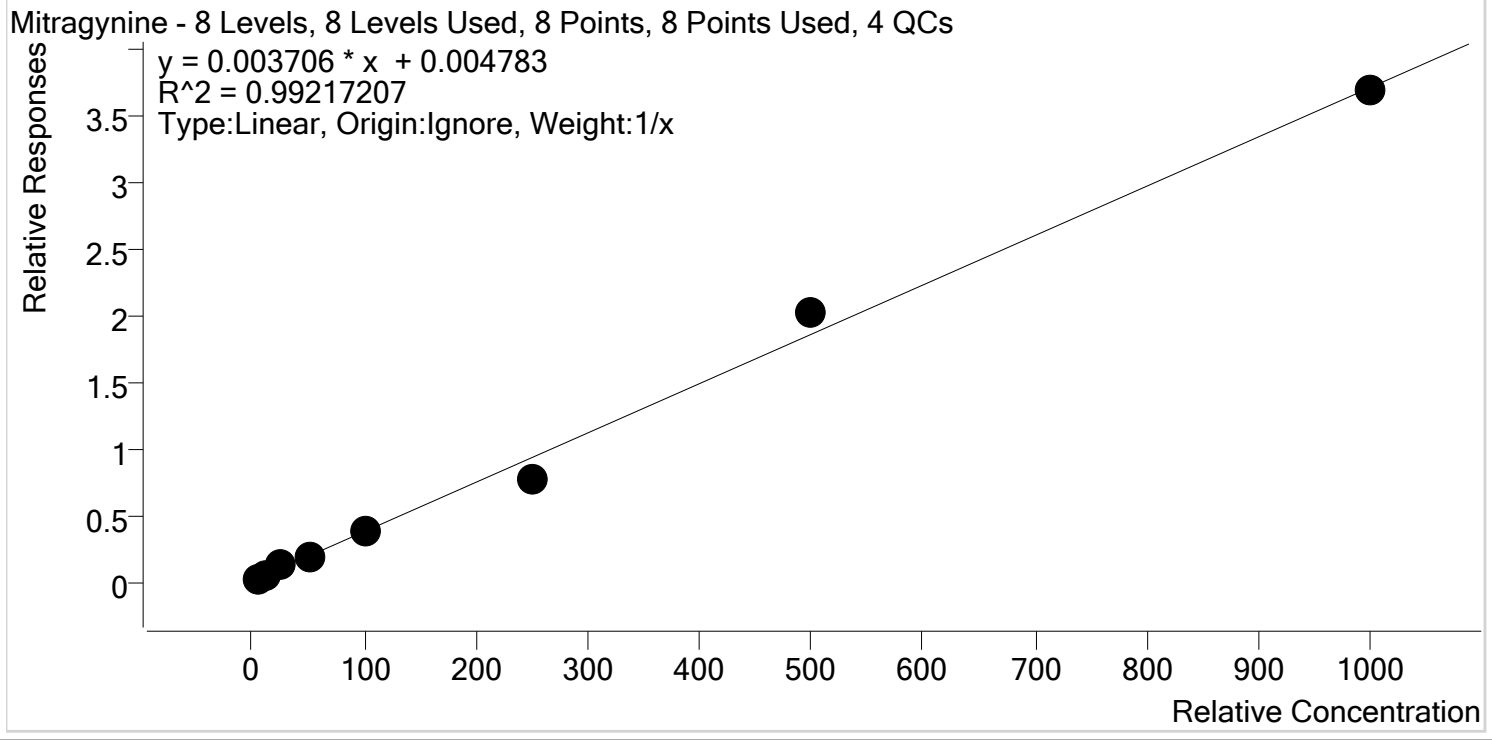
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	91.0
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.1
p1 Cal 3 -25ng	3	✓	25.0	29.9	119.6
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	203.2	81.3
p1 Cal 7-500ng	7	✓	500.0	544.6	108.9
p1 Cal 8-1000ng	8	✓	1000.0	993.9	99.4

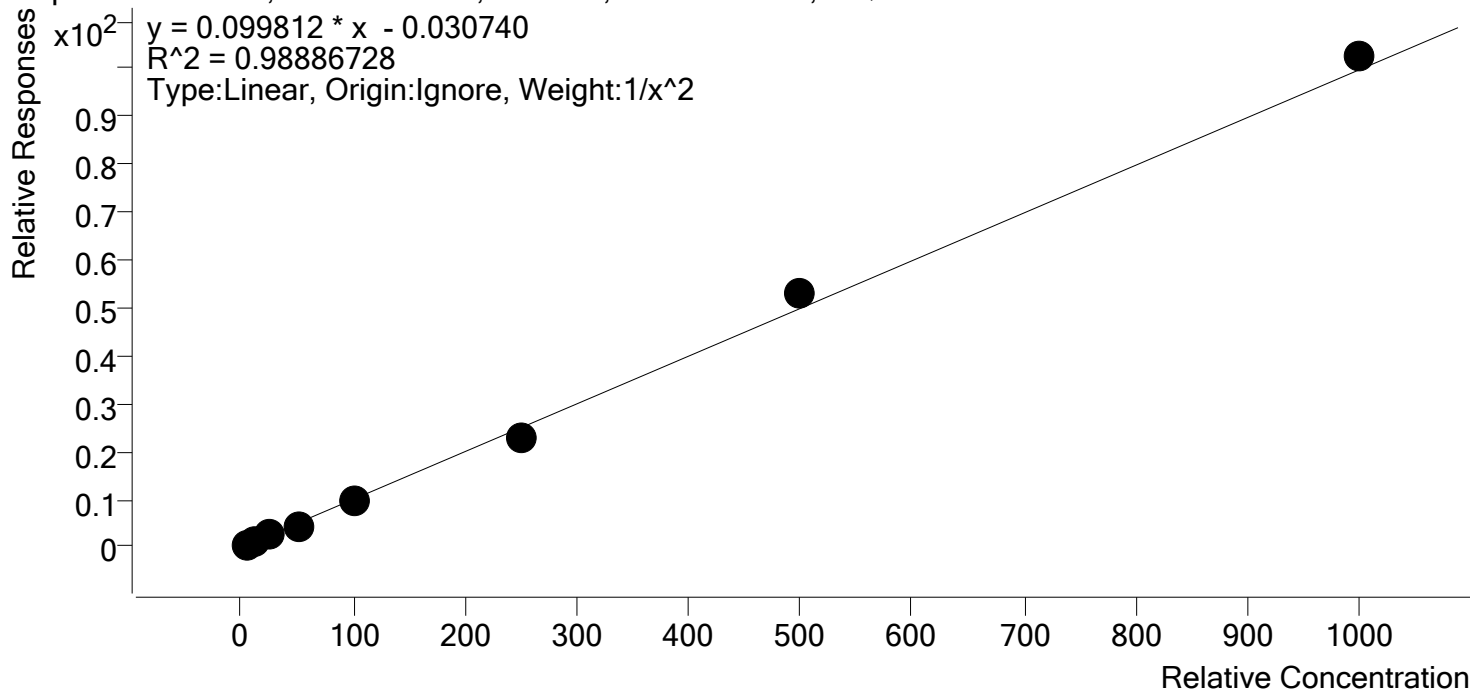


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Morphine **Internal Standard** Morphine-D6

5

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



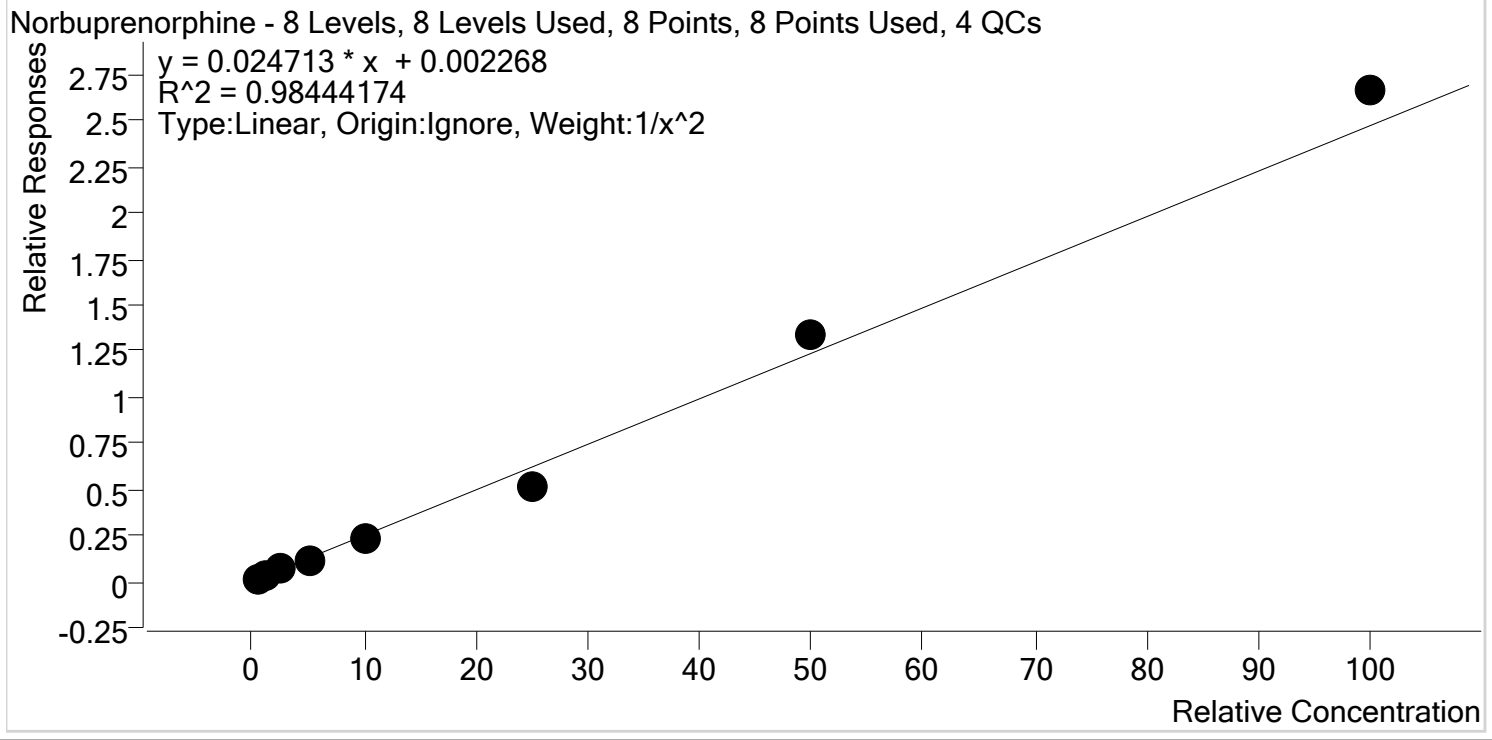
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.2
p1 Cal 3 -25ng	3	✓	25.0	29.6	118.2
p1 Cal 4-50ng	4	✓	50.0	46.3	92.6
p1 Cal 5-100ng	5	✓	100.0	93.8	93.8
p1 Cal 6-250ng	6	✓	250.0	225.2	90.1
p1 Cal 7-500ng	7	✓	500.0	534.3	106.9
p1 Cal 8-1000ng	8	✓	1000.0	1027.8	102.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	97.2
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.4
p1 Cal 3 -25ng	3	✓	2.5	2.9	117.4
p1 Cal 4-50ng	4	✓	5.0	4.7	93.5
p1 Cal 5-100ng	5	✓	10.0	9.0	90.4
p1 Cal 6-250ng	6	✓	25.0	21.0	84.1
p1 Cal 7-500ng	7	✓	50.0	54.2	108.4
p1 Cal 8-1000ng	8	✓	100.0	107.7	107.7

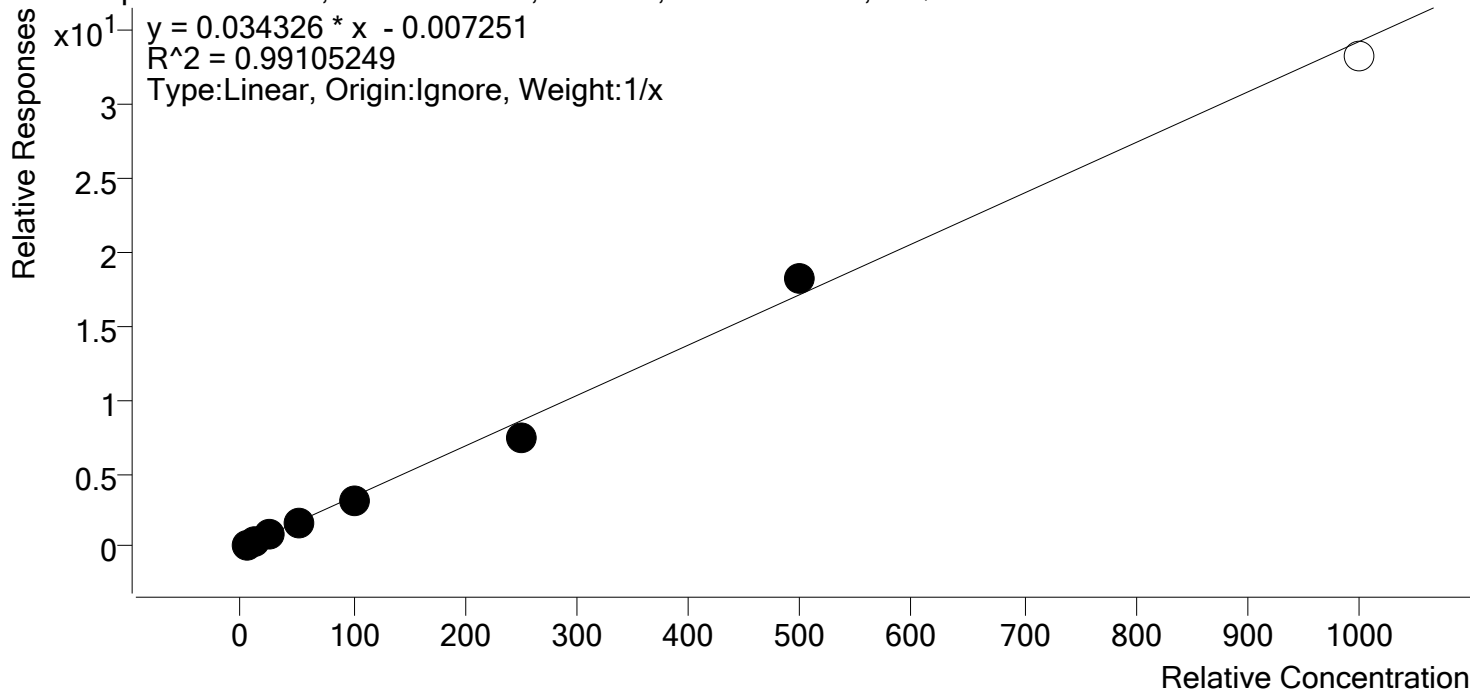


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.5
p1 Cal 3 -25ng	3	✓	25.0	29.1	116.4
p1 Cal 4-50ng	4	✓	50.0	47.1	94.3
p1 Cal 5-100ng	5	✓	100.0	93.8	93.8
p1 Cal 6-250ng	6	✓	250.0	219.9	88.0
p1 Cal 7-500ng	7	✓	500.0	535.1	107.0
p1 Cal 8-1000ng	8	x	1000.0	970.2	97.0

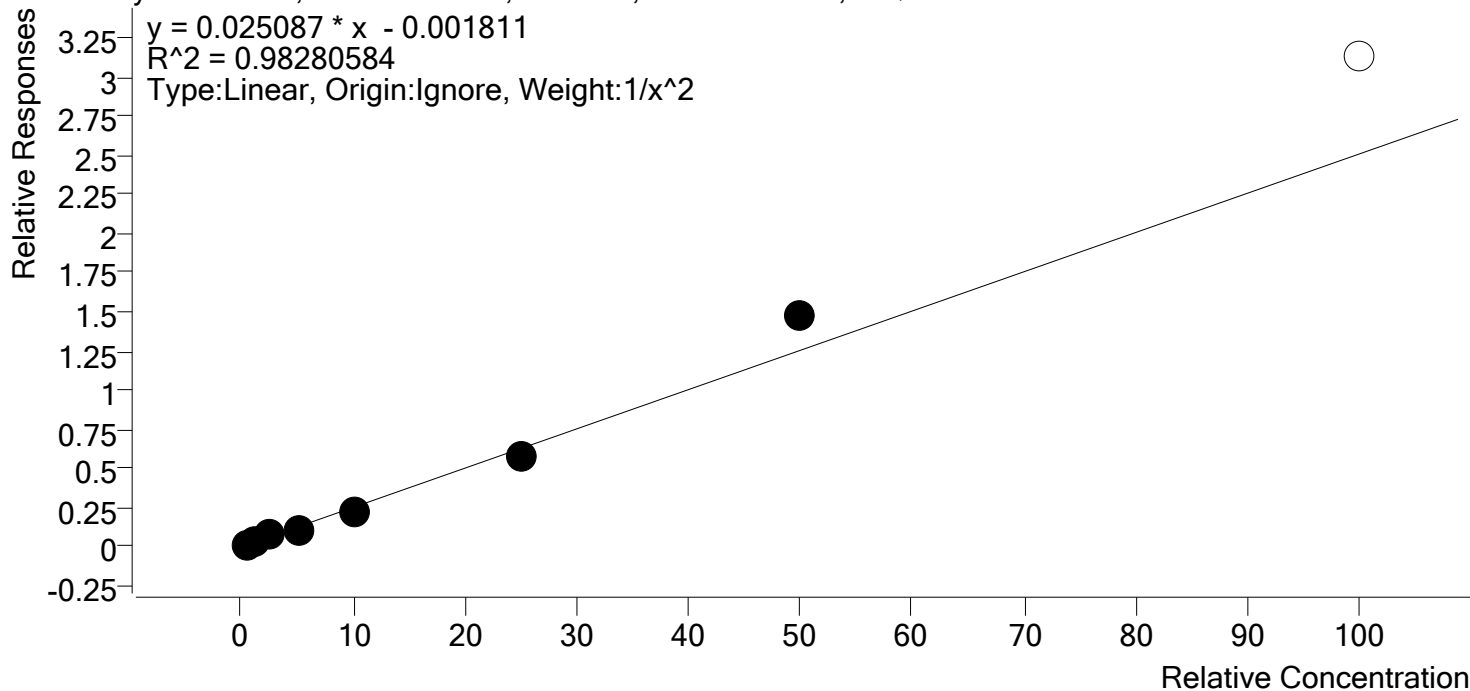


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	99.6
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.1
p1 Cal 3 -25ng	3	✓	2.5	2.8	111.5
p1 Cal 4-50ng	4	✓	5.0	4.5	90.0
p1 Cal 5-100ng	5	✓	10.0	9.0	90.1
p1 Cal 6-250ng	6	✓	25.0	22.8	91.2
p1 Cal 7-500ng	7	✓	50.0	59.2	118.5
p1 Cal 8-1000ng	8	✗	100.0	124.8	124.8

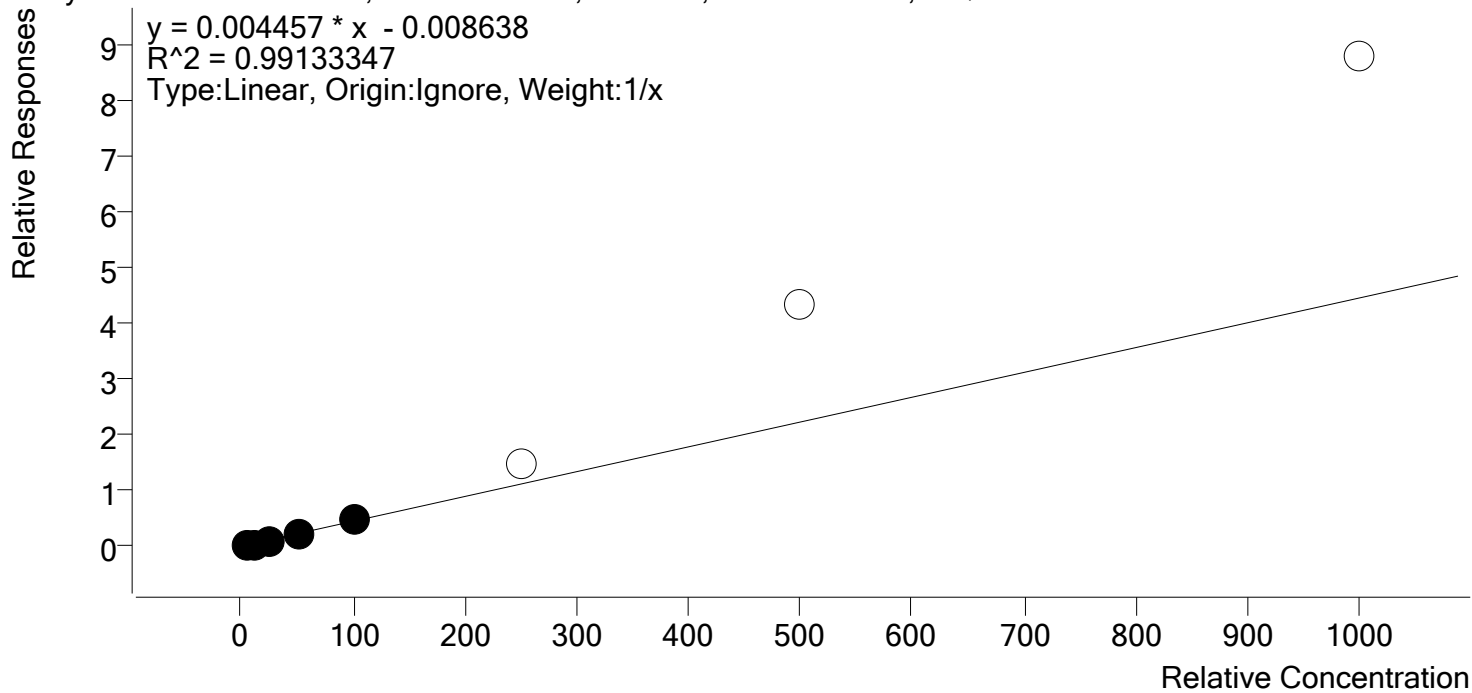


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	110.2
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.3
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	44.3	88.6
p1 Cal 5-100ng	5	✓	100.0	106.0	106.0
p1 Cal 6-250ng	6	x	250.0	329.1	131.7
p1 Cal 7-500ng	7	x	500.0	971.1	194.2
p1 Cal 8-1000ng	8	x	1000.0	1973.3	197.3

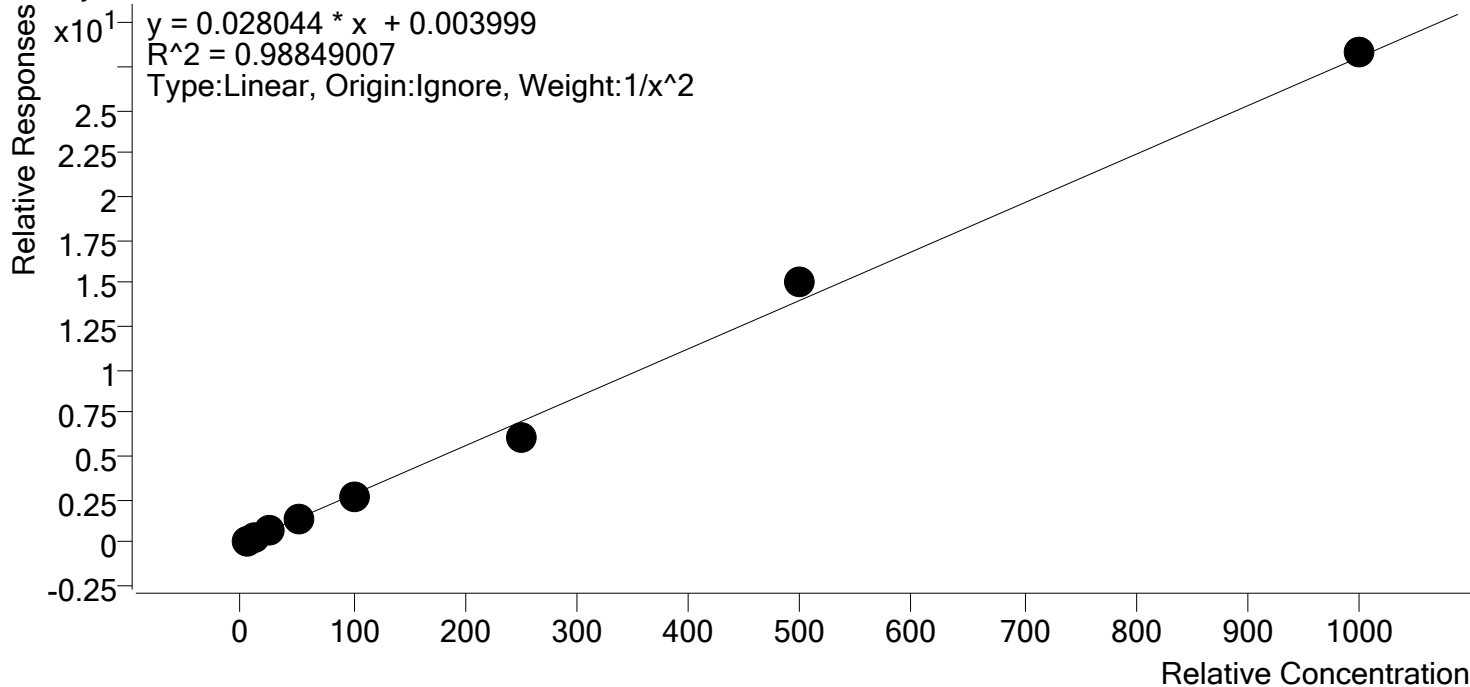


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	29.4	117.7
p1 Cal 4-50ng	4	✓	50.0	45.9	91.7
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	217.4	87.0
p1 Cal 7-500ng	7	✓	500.0	534.1	106.8
p1 Cal 8-1000ng	8	✓	1000.0	1009.6	101.0

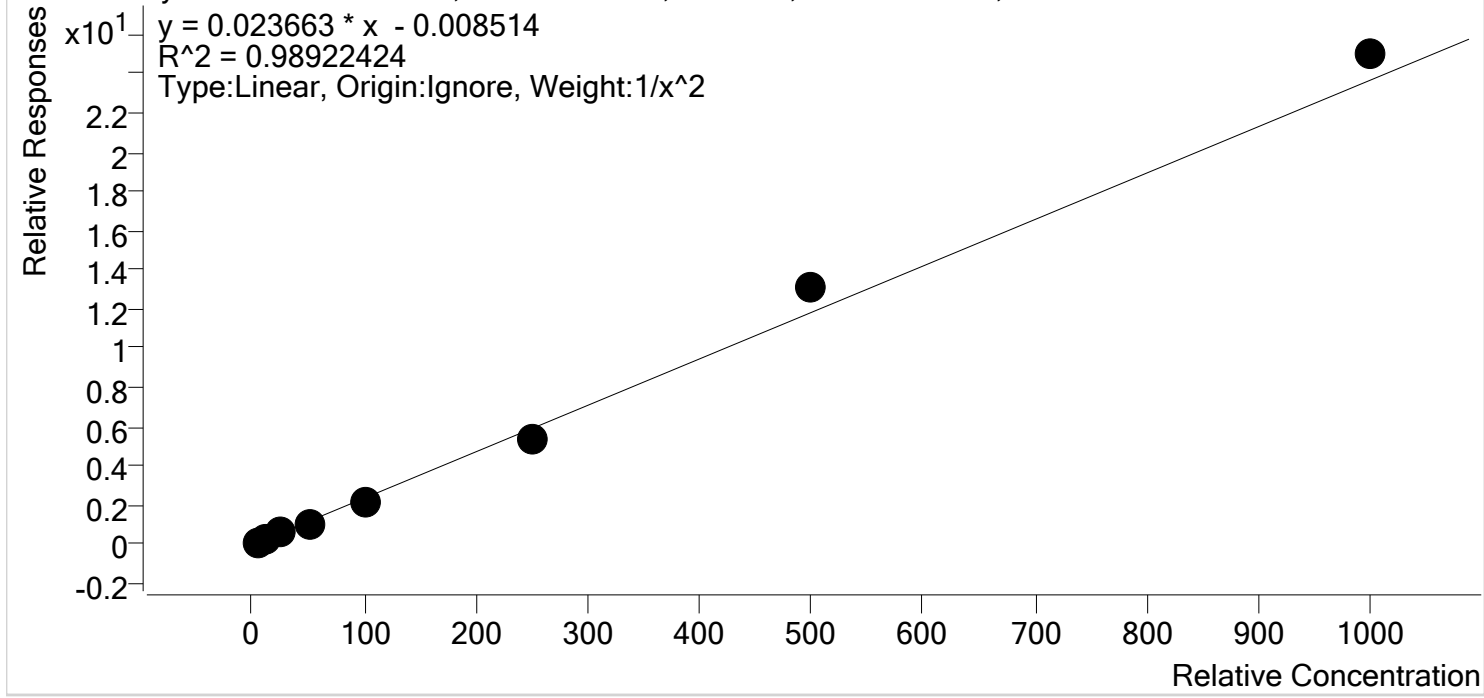


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

5

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



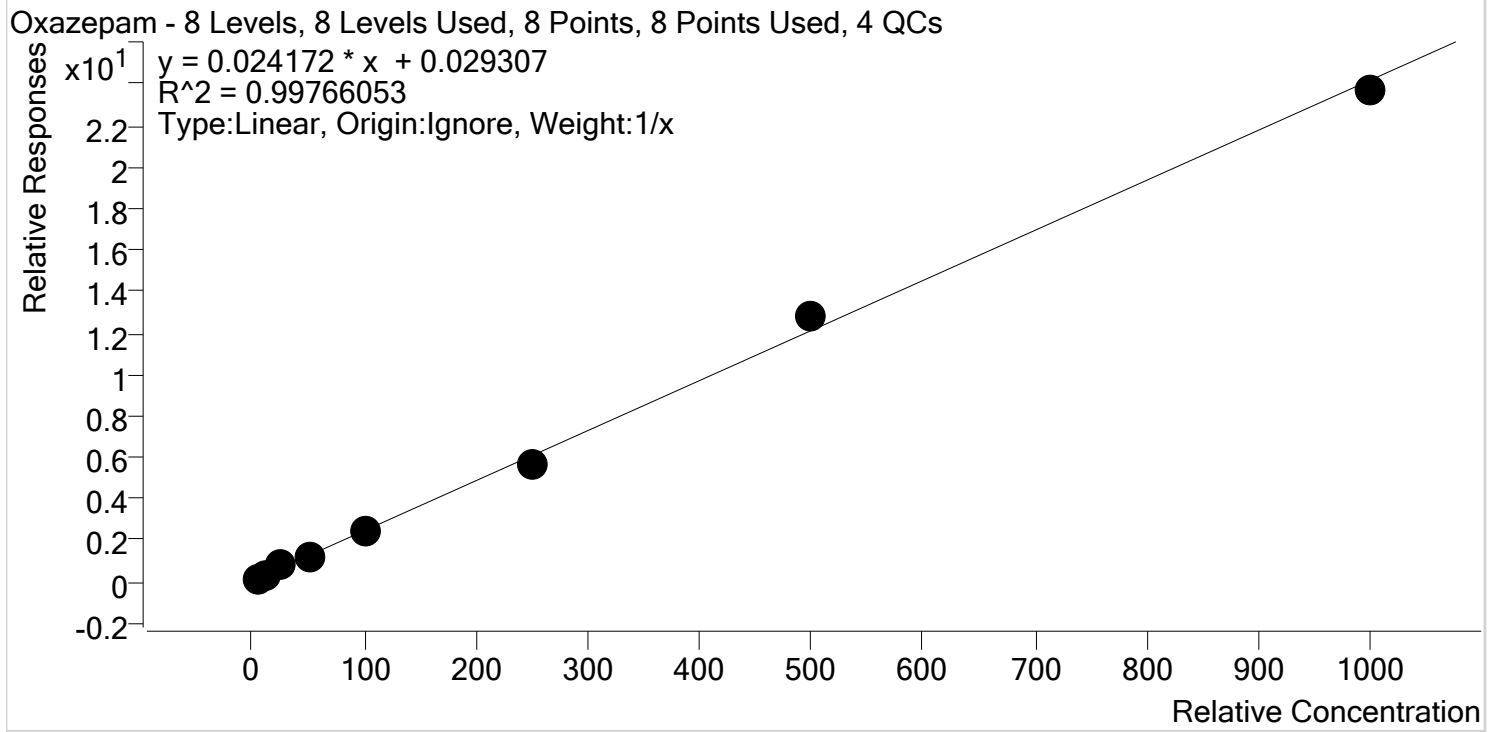
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	28.3	113.3
p1 Cal 4-50ng	4	✓	50.0	45.5	91.0
p1 Cal 5-100ng	5	✓	100.0	91.8	91.8
p1 Cal 6-250ng	6	✓	250.0	224.2	89.7
p1 Cal 7-500ng	7	✓	500.0	552.4	110.5
p1 Cal 8-1000ng	8	✓	1000.0	1055.9	105.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	84.2
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.6
p1 Cal 3 -25ng	3	✓	25.0	29.6	118.6
p1 Cal 4-50ng	4	✓	50.0	49.8	99.7
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	235.3	94.1
p1 Cal 7-500ng	7	✓	500.0	530.2	106.0
p1 Cal 8-1000ng	8	✓	1000.0	979.2	97.9

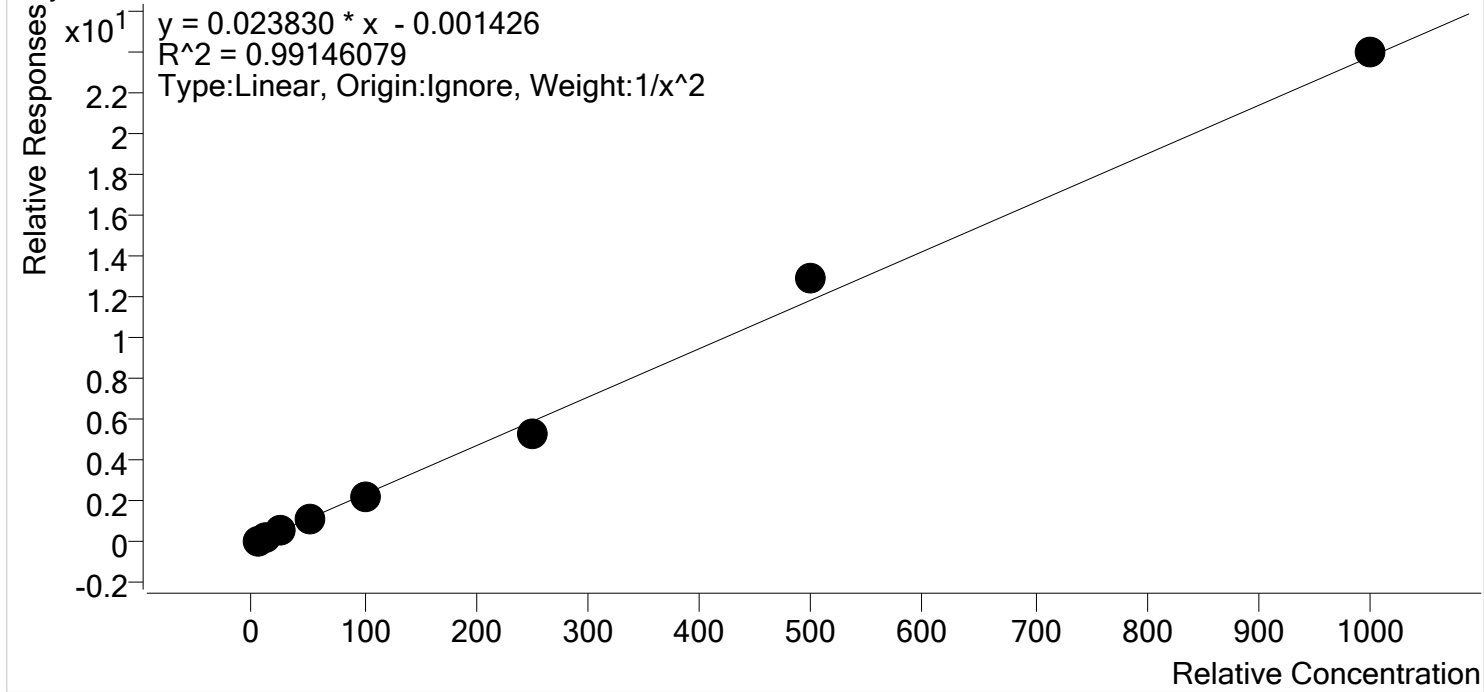


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

5

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



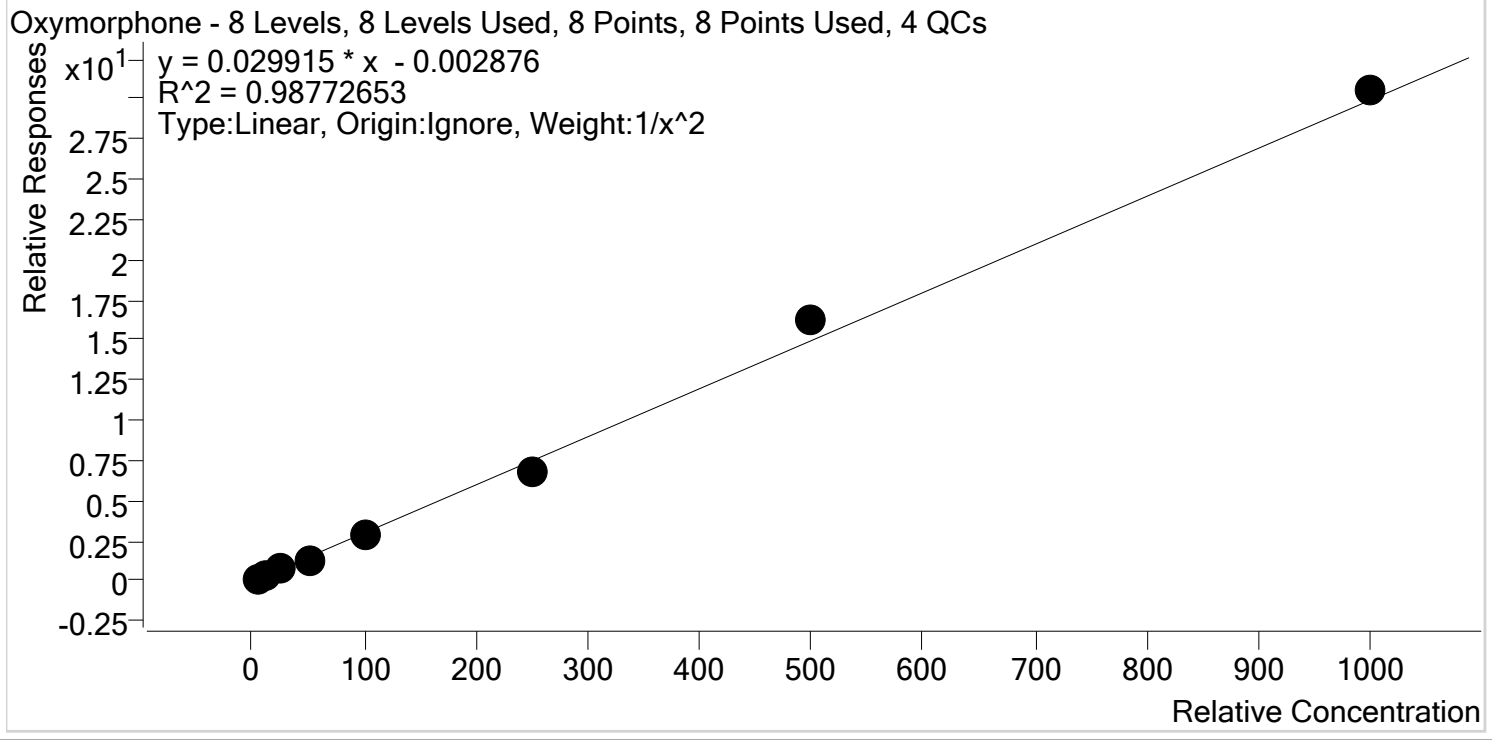
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	28.4	113.5
p1 Cal 4-50ng	4	✓	50.0	47.4	94.7
p1 Cal 5-100ng	5	✓	100.0	91.3	91.3
p1 Cal 6-250ng	6	✓	250.0	228.5	91.4
p1 Cal 7-500ng	7	✓	500.0	547.5	109.5
p1 Cal 8-1000ng	8	✓	1000.0	1008.7	100.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	29.4	117.6
p1 Cal 4-50ng	4	✓	50.0	44.5	89.0
p1 Cal 5-100ng	5	✓	100.0	92.6	92.6
p1 Cal 6-250ng	6	✓	250.0	228.0	91.2
p1 Cal 7-500ng	7	✓	500.0	544.9	109.0
p1 Cal 8-1000ng	8	✓	1000.0	1020.1	102.0

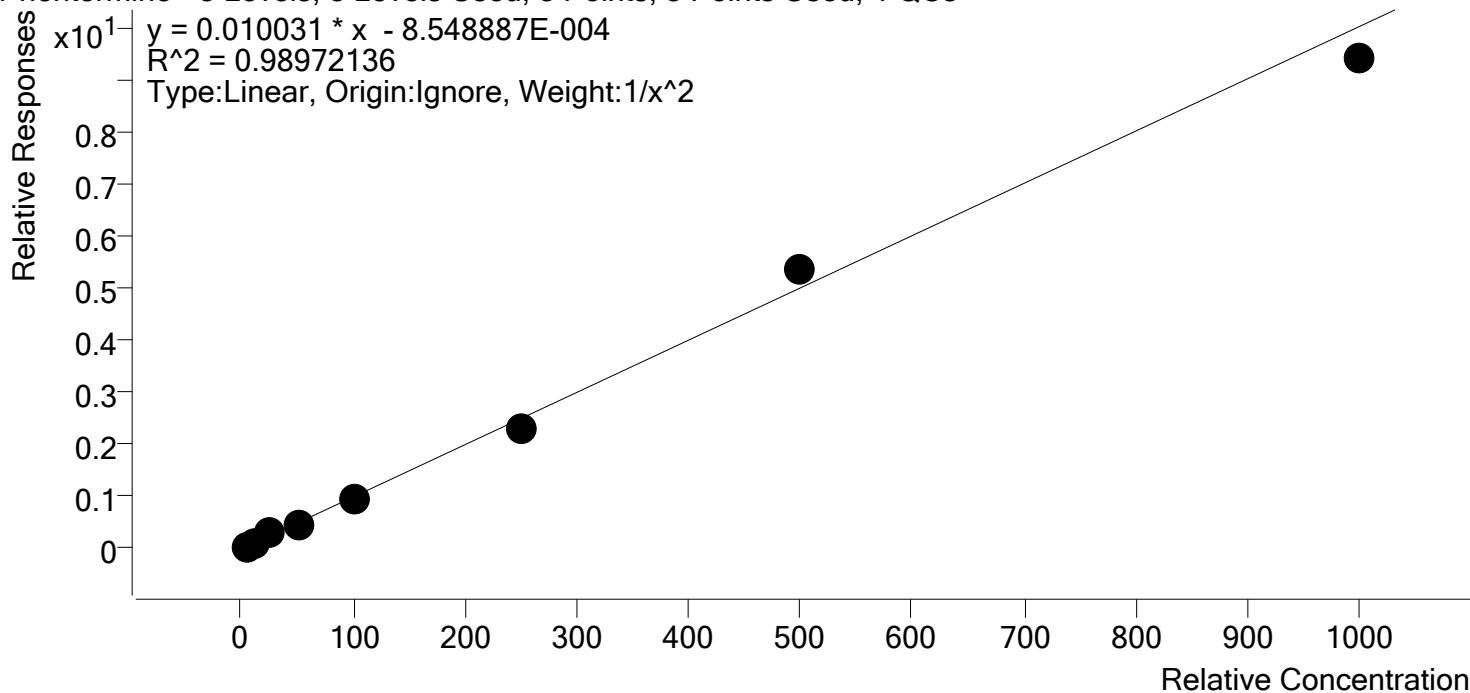


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

5

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



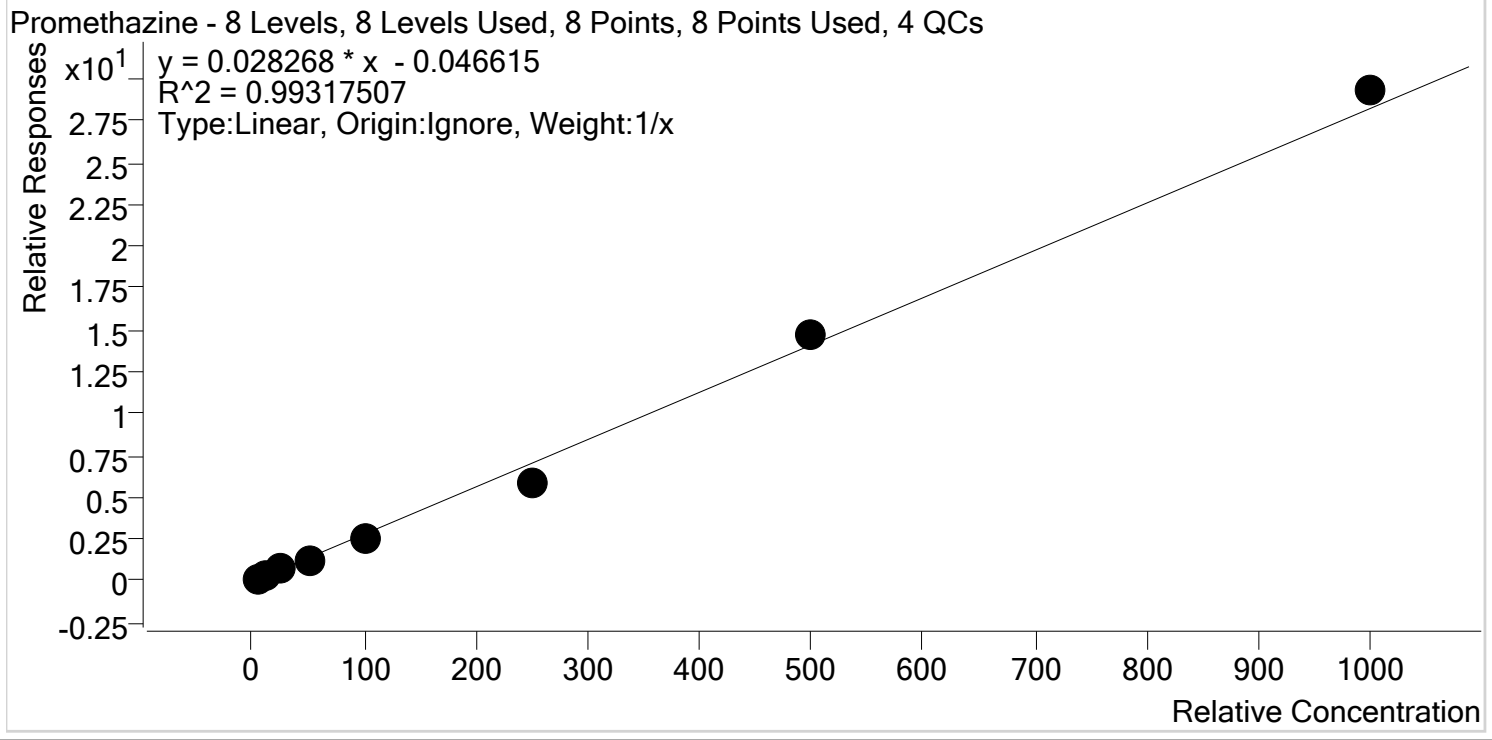
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	29.4	117.7
p1 Cal 4-50ng	4	✓	50.0	47.1	94.1
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	228.5	91.4
p1 Cal 7-500ng	7	✓	500.0	537.8	107.6
p1 Cal 8-1000ng	8	✓	1000.0	938.8	93.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.2
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.0
p1 Cal 3 -25ng	3	✓	25.0	27.6	110.3
p1 Cal 4-50ng	4	✓	50.0	44.2	88.4
p1 Cal 5-100ng	5	✓	100.0	87.7	87.7
p1 Cal 6-250ng	6	✓	250.0	207.1	82.8
p1 Cal 7-500ng	7	✓	500.0	519.1	103.8
p1 Cal 8-1000ng	8	✓	1000.0	1037.9	103.8

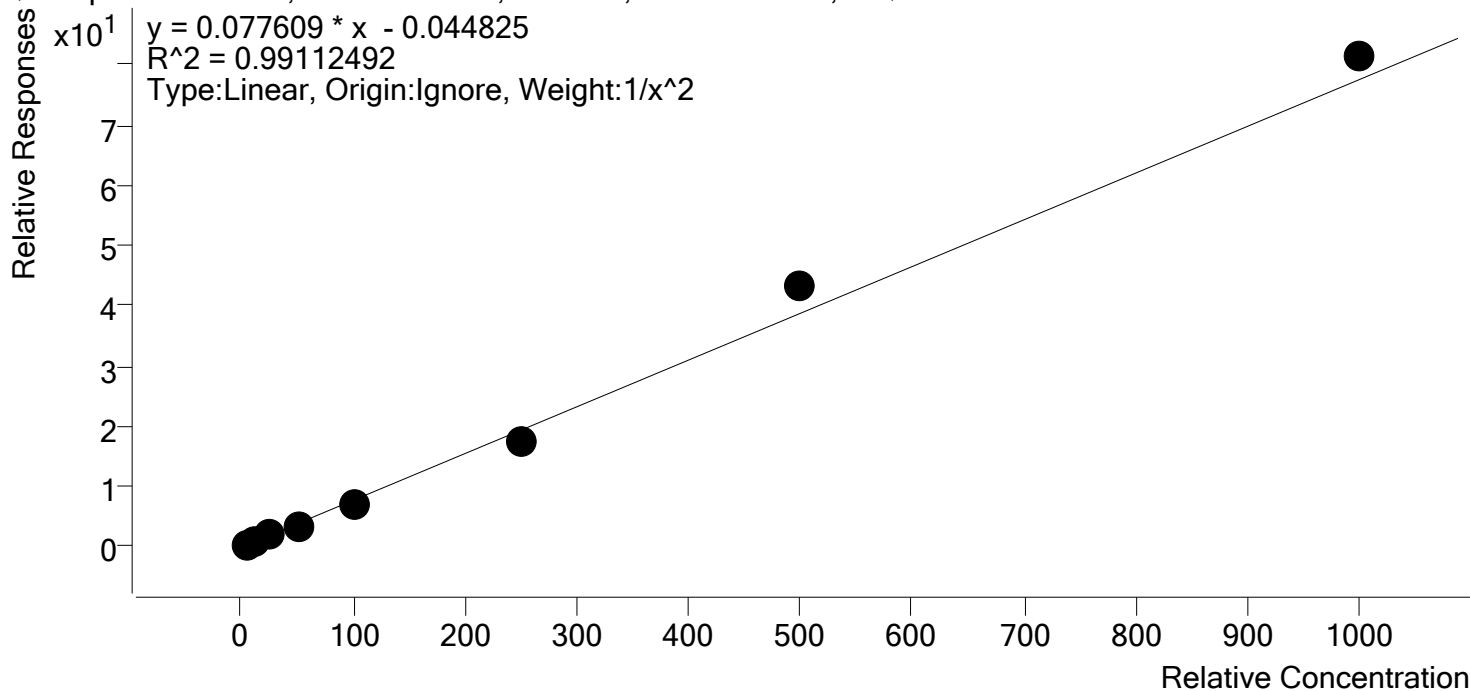


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.8
p1 Cal 4-50ng	4	✓	50.0	45.2	90.3
p1 Cal 5-100ng	5	✓	100.0	94.7	94.7
p1 Cal 6-250ng	6	✓	250.0	225.1	90.1
p1 Cal 7-500ng	7	✓	500.0	561.0	112.2
p1 Cal 8-1000ng	8	✓	1000.0	1049.3	104.9

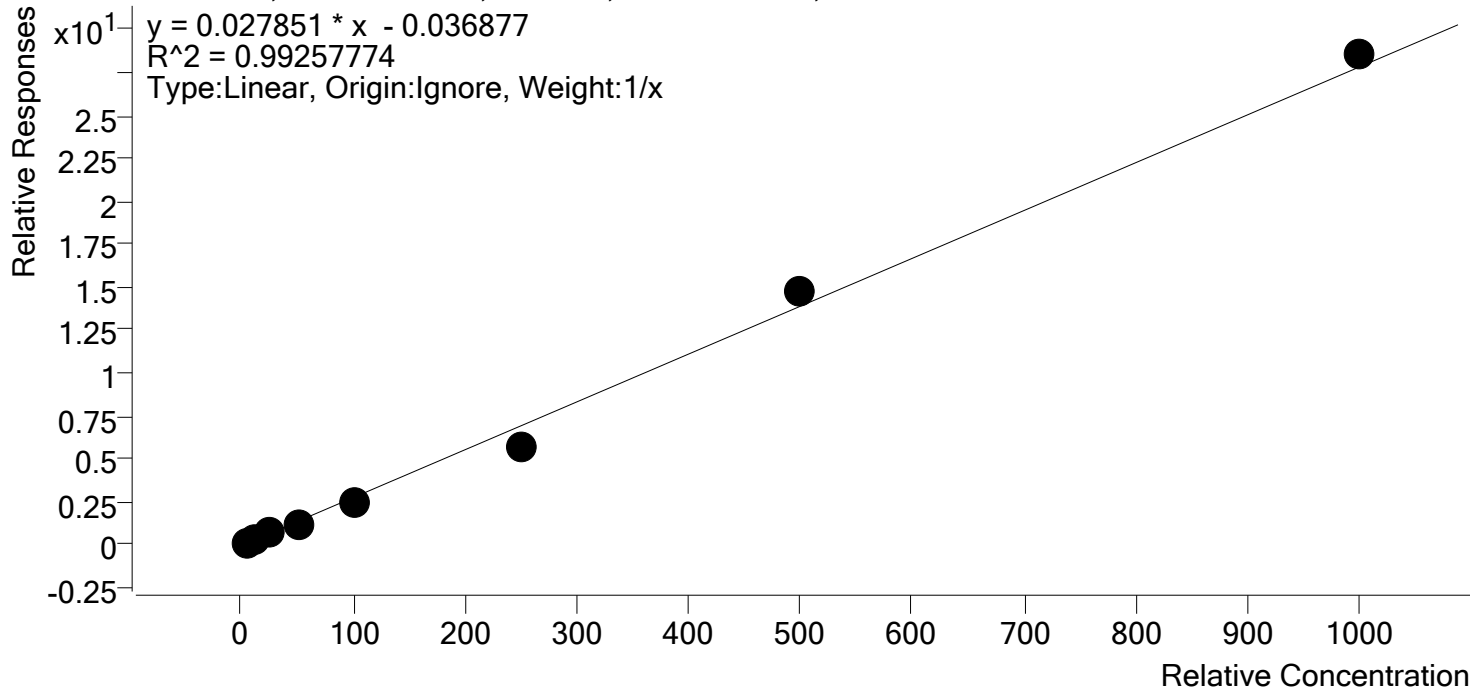


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

5

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



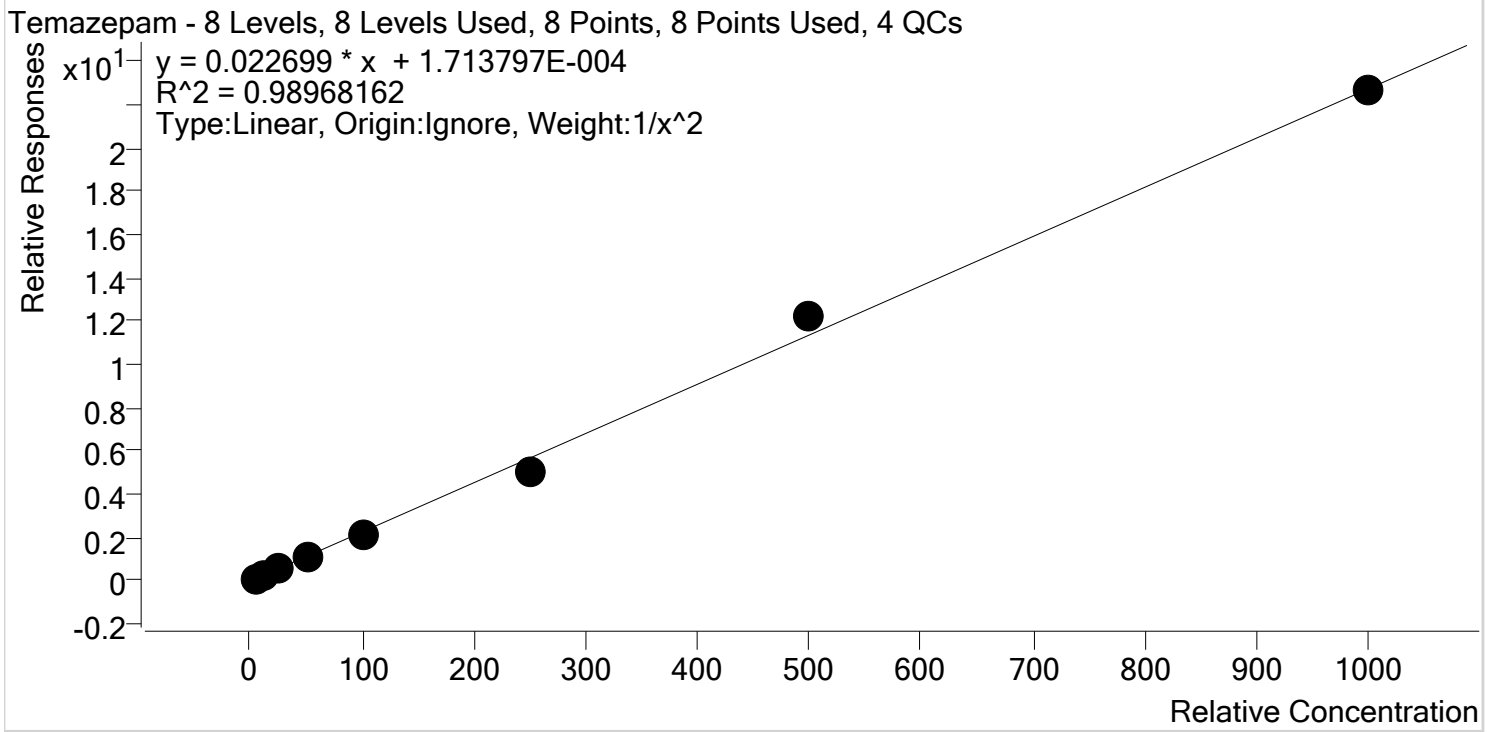
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	114.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	28.2	112.7
p1 Cal 4-50ng	4	✓	50.0	45.4	90.9
p1 Cal 5-100ng	5	✓	100.0	88.2	88.2
p1 Cal 6-250ng	6	✓	250.0	204.6	81.8
p1 Cal 7-500ng	7	✓	500.0	531.5	106.3
p1 Cal 8-1000ng	8	✓	1000.0	1026.1	102.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

5



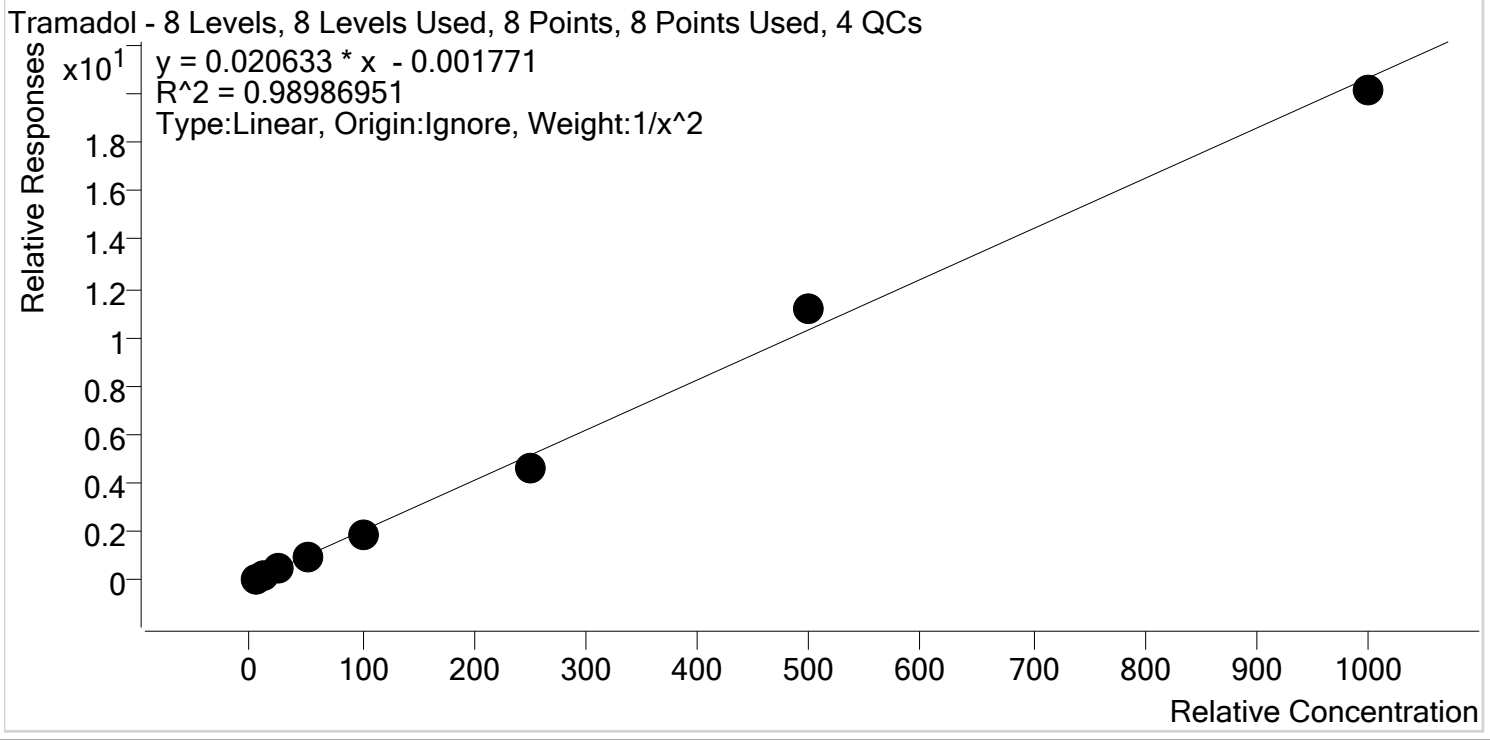
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.7
p1 Cal 3 -25ng	3	✓	25.0	29.4	117.5
p1 Cal 4-50ng	4	✓	50.0	47.2	94.3
p1 Cal 5-100ng	5	✓	100.0	94.3	94.3
p1 Cal 6-250ng	6	✓	250.0	224.3	89.7
p1 Cal 7-500ng	7	✓	500.0	540.5	108.1
p1 Cal 8-1000ng	8	✓	1000.0	996.6	99.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

5



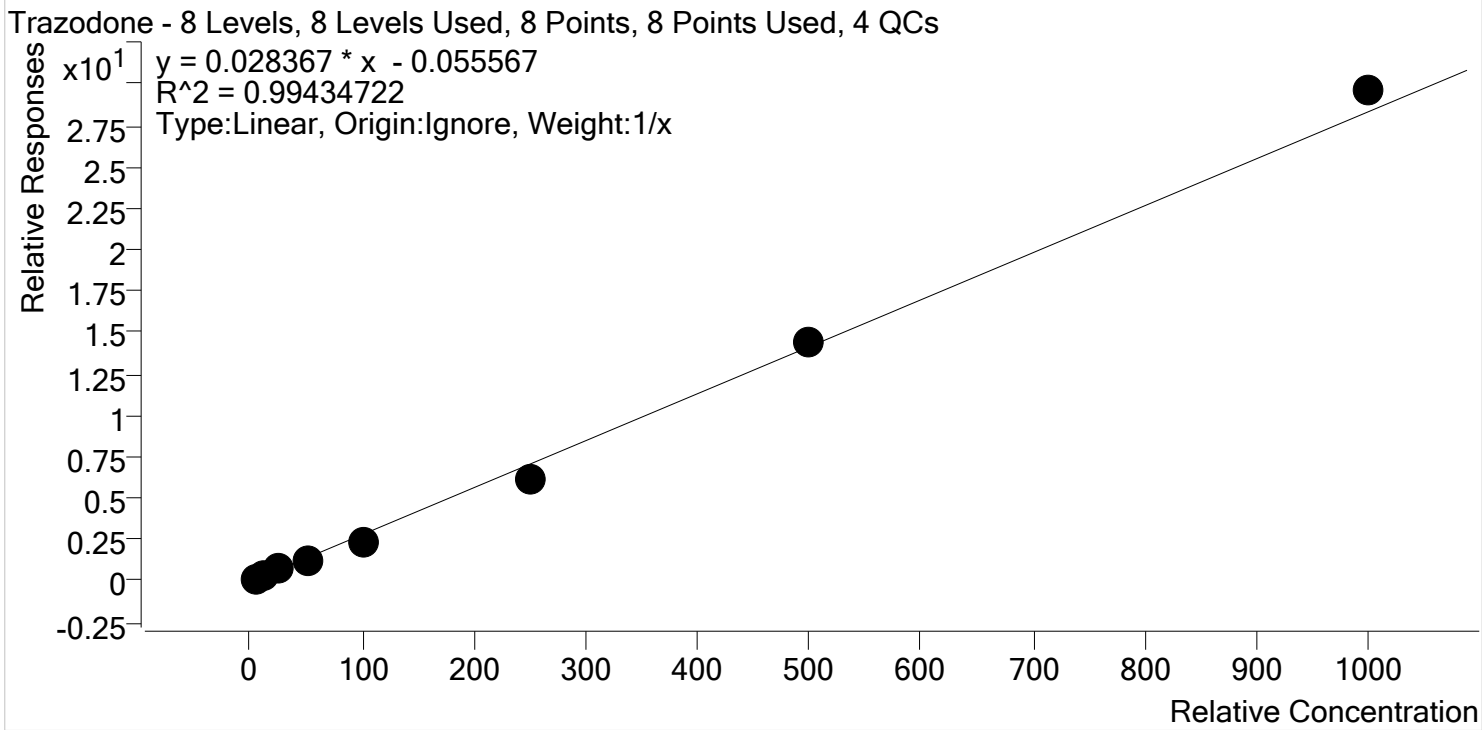
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	29.3	117.4
p1 Cal 4-50ng	4	✓	50.0	46.9	93.8
p1 Cal 5-100ng	5	✓	100.0	94.5	94.5
p1 Cal 6-250ng	6	✓	250.0	226.6	90.6
p1 Cal 7-500ng	7	✓	500.0	539.8	108.0
p1 Cal 8-1000ng	8	✓	1000.0	974.7	97.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

5



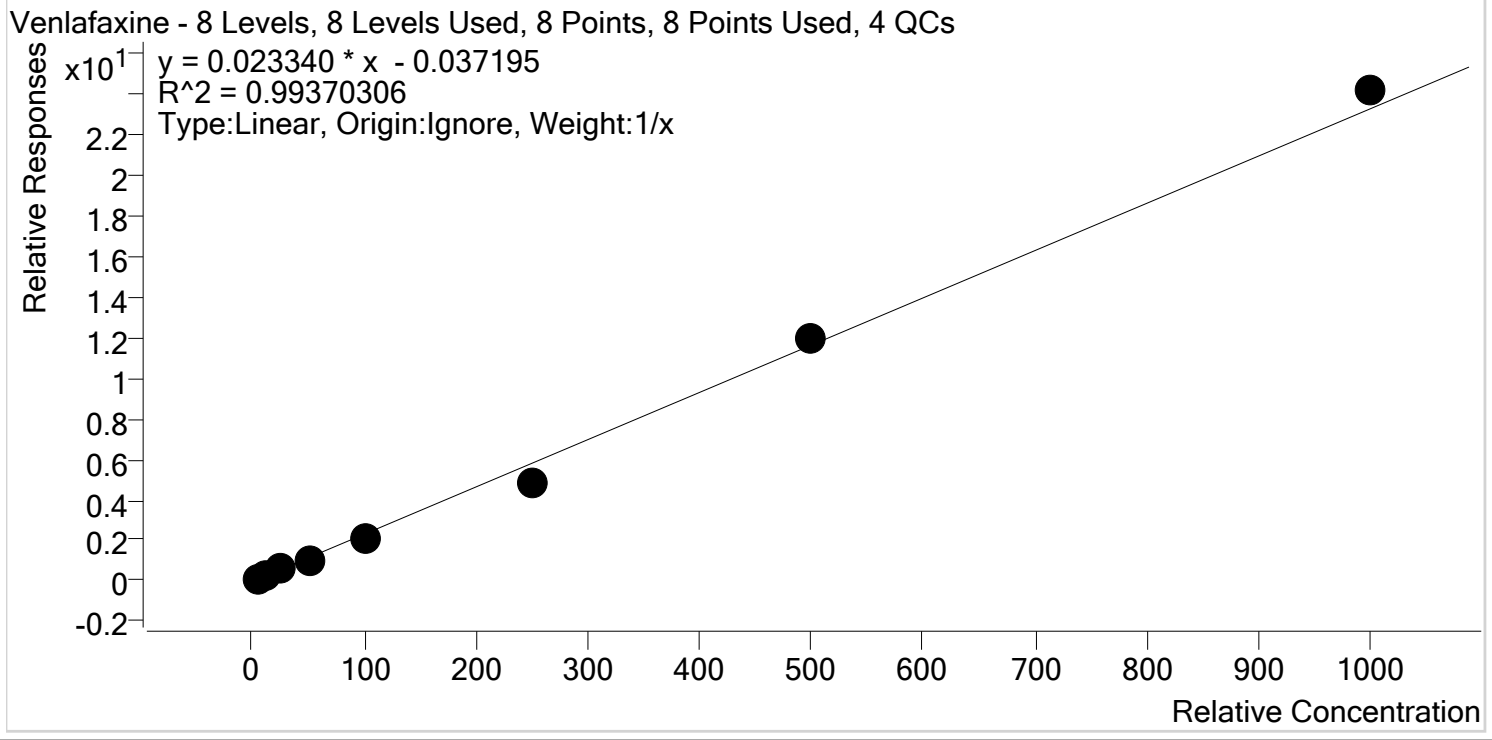
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.2	123.8
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.2
p1 Cal 4-50ng	4	✓	50.0	42.5	85.0
p1 Cal 5-100ng	5	✓	100.0	85.9	85.9
p1 Cal 6-250ng	6	✓	250.0	216.9	86.8
p1 Cal 7-500ng	7	✓	500.0	506.0	101.2
p1 Cal 8-1000ng	8	✓	1000.0	1045.2	104.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	117.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p1 Cal 3 -25ng	3	✓	25.0	27.7	110.8
p1 Cal 4-50ng	4	✓	50.0	44.6	89.1
p1 Cal 5-100ng	5	✓	100.0	87.8	87.8
p1 Cal 6-250ng	6	✓	250.0	209.1	83.6
p1 Cal 7-500ng	7	✓	500.0	515.9	103.2
p1 Cal 8-1000ng	8	✓	1000.0	1038.6	103.9

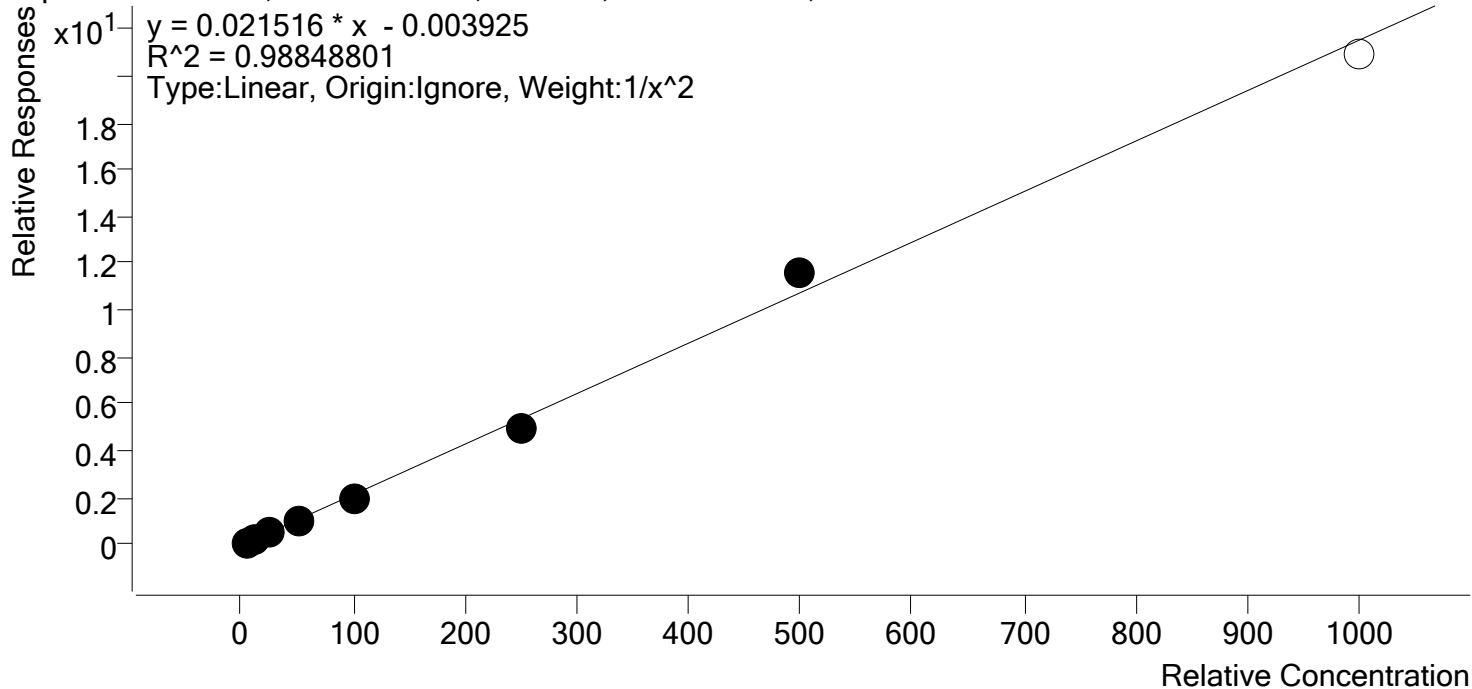


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
Last Cal. Update 5/6/2019 1:30 PM
Analyst Name ISP\Datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	29.2	116.8
p1 Cal 4-50ng	4	✓	50.0	46.9	93.7
p1 Cal 5-100ng	5	✓	100.0	93.6	93.6
p1 Cal 6-250ng	6	✓	250.0	227.7	91.1
p1 Cal 7-500ng	7	✓	500.0	536.7	107.3
p1 Cal 8-1000ng	8	✗	1000.0	971.4	97.1

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

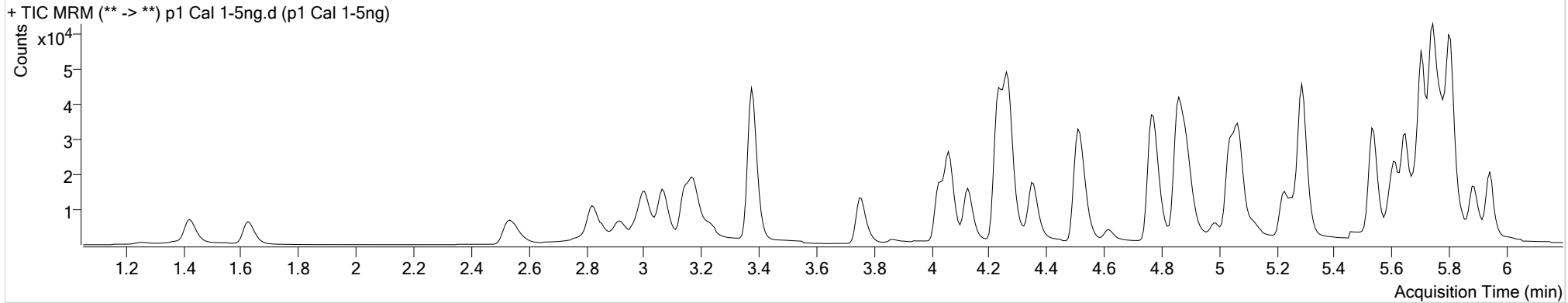
D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

SP

Instrument FALCO-LCMS (Property ID 069901)
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-H12
Injection Volume 1
Acq. Date-Time 4/30/2019 11:54:34 AM
Sample Info.

Data File p1 Cal 1-5ng.d
Sample p1 Cal 1-5ng
Operator Sarah Pickle
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.158	450	525.36	78.5	∞	29430	0.5059 ng/ml
7-aminoclonazepam	4.260	2634	2205.44	80.9	3086.71	23479	3.9550 ng/ml
a-hydroxyalprazolam	5.689	2237	160.57	65.8	2251.16	21970	4.1676 ng/ml
alpha-PVP	4.366	3595	1791.00	53.7	387.31	33147	5.7018 ng/ml
Alprazolam	5.766	4313	∞	106.8	210.21	26941	5.8226 ng/ml
Amphetamine	3.069	6183	17.75	58.9	289.94	17837	4.6744 ng/ml
Benzoylcegonine	3.890	266	2.93 Low	8.0	17.60	1519	6.7923 ng/ml
Buprenorphine	5.803	377	47.60	16.0	18.17	29070	0.5122 ng/ml
Bupropion	4.789	11601	2096.36	58.2	106.10	82026	5.4626 ng/ml
Carisoprodol	5.721	5450	528.69	56.1	102.11	57609	4.8649 ng/ml
Citalopram	5.229	2683	714.68	42.5	290.35	24034	5.6610 ng/ml
Clonazepam	5.602	3202	646.81	35.9	293.66	10521	4.8643 ng/ml
Cocaine	4.266	3842	6020.55	43.8	3491.05	74543	5.9722 ng/ml
Codeine	2.590	667	2442.82	105.0	488.57	6415	5.4427 ng/ml
Cyclobenzaprine	5.618	2958	4686.97	11.4	136.59	24671	4.9415 ng/ml
Dextromethorphan	5.265	1754	2474.45	77.6	156.13	17242	5.6330 ng/ml
Dextrorphan	4.129	1238	1703.09	211.0	441.46	29001	5.8748 ng/ml
Diazepam	5.952	2943	112.01	87.4	238.89	26569	4.9563 ng/ml

AM #28 Multi-Drug Quant. Results



SP

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	1591	242.41	68.0	1535.12	17231	4.7444 ng/ml
Diphenhydramine	5.292	8132	198.34	34.8	1141.90	85207	5.8145 ng/ml
Doxylamine	4.529	8269	26353.66	98.0	5536.62	74593	5.2258 ng/ml
EDDP	5.257	36	2.03	Low	53.5	High	10.37
Fentanyl	5.086	261	163.39	74.9	80.67	428	8.9660 ng/ml
Fluoxetine	5.704	3426	∞	8.8	298.18	27844	0.4952 ng/ml
Hydrocodone	3.032	1859	103.42	41.6	38.81	22849	5.8636 ng/ml
Hydromorphone	1.634	2101	369.69	75.0	221.32	15374	4.4402 ng/ml
Ketamine	4.042	3830	1703.07	36.8	215.58	36084	4.9465 ng/ml
Lamotrigine	4.304	595	737.64	69.3	772.49	36084	4.8834 ng/ml
Meprobamate	4.919	3667	3170.40	26.9	∞	32808	4.9083 ng/ml
Methadone	5.650	4588	536.72	51.9	85.50	44503	4.8004 ng/ml
Methamphetamine	3.237	4520	16.15	40.8	105.66	37196	5.5820 ng/ml
Metoprolol	4.329	888	1218.98	91.9	668.04	81426	4.7484 ng/ml
Mirtazapine	4.617	4662	3944.15	50.4	2160.75	33147	3.8175 ng/ml
Mitragynine	5.221	964	3096.53	36.1	781.48	44503	3.5790 ng/ml
Morphine	1.266	431	388.87	21.6	239.07	925	4.5523 ng/ml
Norbuprenorphine	4.988	106	18.63	116.0	69.06	7413	4.9702 ng/ml
Nordiazepam	5.891	3204	508.57	54.9	227.45	19259	0.4858 ng/ml
Norfentanyl	4.091	549	207.15	37.1	10.92	51334	5.0587 ng/ml
Norhydrocodone	3.087	389	89.65	41.9	64.78	24457	0.4982 ng/ml
Noroxycodone	2.935	1880	35.79	48.0	56.73	13406	5.5095 ng/ml
O-desmethyl-tramadol	3.386	10226	3253.74	6.6	98.50	93844	4.8569 ng/ml
Oxazepam	5.747	9284	249.03	69.5	∞	70818	4.9650 ng/ml
Oxycodone	2.853	3704	56.36	30.2	718.28	32123	4.2111 ng/ml
Oxymorphone	1.423	2633	175.25	47.7	133.54	18441	4.8987 ng/ml
Phentermine	3.787	1537	101.74	4.4	13.46	32444	4.8689 ng/ml
Promethazine	5.542	5403	1099.93	29.4	137.31	45411	4.8085 ng/ml
Quetiapine	5.545	3776	198.46	58.5	5775.22	10995	5.8581 ng/ml
Sertraline	5.780	1902	716.99	83.9	4660.97	15551	5.0021 ng/ml
Temazepam	5.814	9152	253.67	27.6	113.90	81650	5.7144 ng/ml
Tramadol	4.249	7994	1033.54	3.4	33.75	81426	4.9302 ng/ml
Trazodone	5.120	3682	4923.68	78.4	163.90	30664	4.8436 ng/ml
Venlafaxine	5.040	5533	616.04	34.5	33.93	55705	6.1921 ng/ml
Zolpidem	4.883	9142	20457.21	31.5	4776.42	90156	5.8495 ng/ml

AM #28 Multi-Drug Quant. Results



SP

Batch results

Calibration Last Update

D:\MassHunter\Data\2019\AM 28\043019 MDQ P1 SP\QuantResults\MDQ.batch.bin
5/6/2019 1:30:48 PM

Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

FALCO-LCMS (Property ID 069901)
Cal
MDQ P1 Combined 011619.m
P1-G12
1
4/30/2019 12:05:11 PM

Data File

Sample

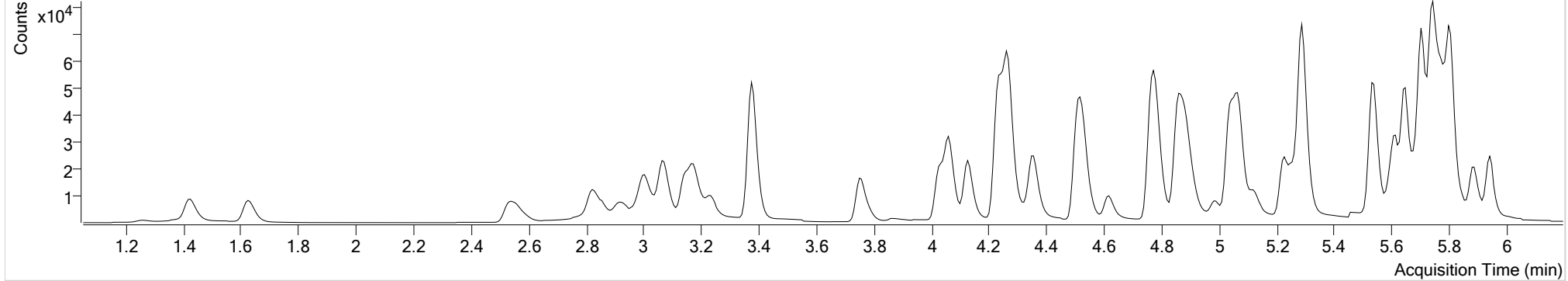
Operator

Comment

p1 Cal 2- 10ng.d
p1 Cal 2- 10ng
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 2- 10ng.d (p1 Cal 2- 10ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	983	513.53	74.7	199.08	31678	0.9539 ng/ml
7-aminoclonazepam	4.260	5734	4814.04	78.8	388.69	23455	9.8226 ng/ml
a-hydroxyalprazolam	5.689	4620	405.17	67.1	199.20	22901	9.3146 ng/ml
alpha-PVP	4.366	9541	∞	50.8	249.97	41719	10.5268 ng/ml
Alprazolam	5.766	9457	602.04	103.3	627.66	27416	10.7049 ng/ml
Amphetamine	3.075	16176	∞	57.8	∞	21241	10.5558 ng/ml
Benzoylcegonine	3.890	475	241.52	7.9	21.59	1488	11.5861 ng/ml
Buprenorphine	5.803	981	∞	19.1	46.89	41542	0.9298 ng/ml
Bupropion	4.789	32733	6728.57	58.4	807.02	111215	10.2950 ng/ml
Carisoprodol	5.714	11704	620.18	57.2	278.88	58351	10.1307 ng/ml
Citalopram	5.229	8049	797.99	42.2	148.35	34659	10.2671 ng/ml
Clonazepam	5.602	6746	1290.60	35.1	2572.68	10845	10.0466 ng/ml
Cocaine	4.266	9274	5199.47	44.6	4473.44	87199	10.5182 ng/ml
Codeine	2.597	1496	2593.73	103.2	550.98	6818	10.2681 ng/ml
Cyclobenzaprine	5.618	8529	3917.70	10.4	143.55	32764	10.1246 ng/ml
Dextromethorphan	5.265	5399	1665.30	79.1	534.46	25164	10.3997 ng/ml
Dextrorphan	4.129	3398	386.85	204.6	38034.27	37864	10.6161 ng/ml
Diazepam	5.952	6379	192.37	84.6	274.81	28421	9.8298 ng/ml

AM #28 Multi-Drug Quant. Results



5

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	3542	38523.20	67.6	3207.49	18152	10.3435 ng/ml
Diphenhydramine	5.292	23910	2545.08	34.5	1523.37	122751	10.3322 ng/ml
Doxylamine	4.529	22453	662.94	98.1	5747.42	97064	10.2225 ng/ml
EDDP	5.257	267	24.16	44.3	240.68	1906	11.5061 ng/ml
Fentanyl	5.086	783	161.65	72.6	703.67	38079	1.0113 ng/ml
Fluoxetine	5.704	10825	3060.71	9.8	1262.52	39838	10.3934 ng/ml
Hydrocodone	3.032	4317	108.13	40.4	98.59	24693	10.0344 ng/ml
Hydromorphone	1.634	4603	384.39	73.9	237.17	16076	9.9538 ng/ml
Ketamine	4.042	8781	1498.06	37.7	820.76	39686	10.0552 ng/ml
Lamotrigine	4.297	1198	1251.36	80.0	1654.04	39686	9.5680 ng/ml
Meprobamate	4.919	7724	6168.63	28.2	274.94	33434	10.2431 ng/ml
Methadone	5.650	13705	1191.52	52.7	1467.79	65211	10.1737 ng/ml
Methamphetamine	3.237	11090	481.27	40.5	128.12	42971	10.4301 ng/ml
Metoprolol	4.329	2309	6222.02	90.3	∞	94173	10.7409 ng/ml
Mirtazapine	4.617	13237	∞	49.7	5937.18	41719	10.3590 ng/ml
Mitragynine	5.221	2610	13217.92	37.4	3084.84	65211	9.5089 ng/ml
Morphine	1.266	890	925.48	23.4	545.14	958	9.6218 ng/ml
Norbuprenorphine	4.988	304	62.88	100.0	45.54	11134	1.0135 ng/ml
Nordiazepam	5.891	6977	730.28	57.3	926.17	20875	9.9483 ng/ml
Norfentanyl	4.091	1373	282.77	39.0	197.30	59573	0.9907 ng/ml
Norhydrocodone	3.087	950	170.04	41.7	156.51	27351	9.7321 ng/ml
Noroxycodone	2.935	4134	96.55	48.2	57.11	14407	10.0883 ng/ml
O-desmethyl-tramadol	3.386	22168	3936.59	6.8	290.13	98351	9.8851 ng/ml
Oxazepam	5.747	19150	153.69	63.4	152.76	72173	9.7648 ng/ml
Oxycodone	2.853	8089	121.76	31.5	317.55	33901	10.0729 ng/ml
Oxymorphone	1.423	5717	275.65	46.7	139.20	19045	10.1316 ng/ml
Phentermine	3.787	4092	255.02	4.3	∞	40206	10.2318 ng/ml
Promethazine	5.542	16295	4630.97	29.1	1406.52	64420	10.5974 ng/ml
Quetiapine	5.545	10135	1693.68	60.8	2344.54	14012	9.8972 ng/ml
Sertraline	5.773	5732	992.04	91.5	1345.47	22863	10.3264 ng/ml
Temazepam	5.814	18686	212.11	30.0	∞	84158	9.7742 ng/ml
Tramadol	4.242	19521	10521.01	3.5	145.34	94173	10.1322 ng/ml
Trazodone	5.120	10058	3701.78	79.7	10938.40	41233	10.5579 ng/ml
Venlafaxine	5.040	15407	826.28	36.9	338.91	74467	10.4585 ng/ml
Zolpidem	4.883	20790	∞	32.0	∞	98850	9.9577 ng/ml

AM #28 Multi-Drug Quant. Results



SP

Batch results

Calibration Last Update

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Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

FALCO-LCMS (Property ID 069901)
Cal
MDQ P1 Combined 011619.m
P1-F12
1
4/30/2019 12:15:39 PM

Data File

Sample

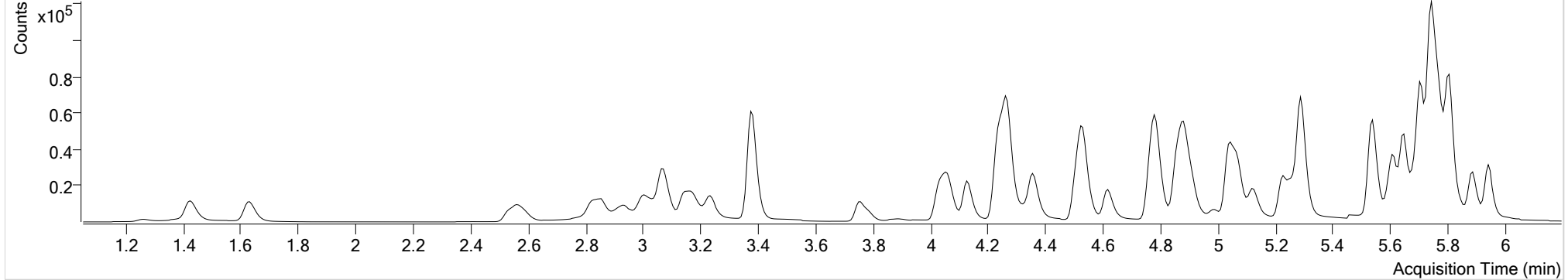
Operator

Comment

p1 Cal 3 -25ng.d
p1 Cal 3 -25ng
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 3 -25ng.d (p1 Cal 3 -25ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	2538	1264.42	70.5	681.92	26428	2.8027 ng/ml
7-aminoclonazepam	4.267	13334	42973.91	83.1	17755.21	19288	29.6428 ng/ml
a-hydroxyalprazolam	5.689	11383	1124.57	66.5	359.97	18898	29.9518 ng/ml
alpha-PVP	4.366	19461	1324.34	52.1	777.36	28955	28.3213 ng/ml
Alprazolam	5.766	22927	1437.39	105.7	401.25	23857	26.9755 ng/ml
Amphetamine	3.075	29820	1156.57	58.5	1352.85	14051	29.8443 ng/ml
Benzoyllecgonine	3.890	1064	1788.46	7.8	156.63	1221	29.9772 ng/ml
Buprenorphine	5.803	1924	247.99	16.1	148.95	26750	2.8256 ng/ml
Bupropion	4.789	61729	53603.06	58.7	246.57	71200	28.3949 ng/ml
Carisoprodol	5.714	28653	350.81	57.9	178.01	49181	29.1132 ng/ml
Citalopram	5.229	16031	1418.10	41.7	26442.95	22795	28.2531 ng/ml
Clonazepam	5.602	16216	∞	37.6	2688.68	9119	28.9076 ng/ml
Cocaine	4.266	20542	49510.47	44.6	8890.12	65648	27.6521 ng/ml
Codeine	2.597	3813	3954.71	100.7	30574.74	5714	28.9938 ng/ml
Cyclobenzaprine	5.618	16468	409.97	10.8	243.61	22543	27.4830 ng/ml
Dextromethorphan	5.265	10446	549.89	79.5	397.03	16347	28.3265 ng/ml
Dextrorphan	4.129	6778	23458.56	210.5	2113.79	26545	27.2942 ng/ml
Diazepam	5.945	15893	492.66	86.5	4464.21	23756	28.8884 ng/ml

AM #28 Multi-Drug Quant. Results



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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	8605	16423.00	71.0	∞	15571	29.8136 ng/ml
Diphenhydramine	5.292	46853	293.67	34.5	1805.01	80348	27.9921 ng/ml
Doxylamine	4.529	47180	13526.53	96.6	24024.20	69442	28.8091 ng/ml
EDDP	5.257	1741	958.35	38.6	6531.50	3300	29.1949 ng/ml
Fentanyl	5.086	1485	1052.69	75.7	485.19	25769	2.7208 ng/ml
Fluoxetine	5.704	18791	1557.50	9.4	612.03	23501	27.4199 ng/ml
Hydrocodone	3.032	10129	78.13	38.6	76.36	20172	29.6180 ng/ml
Hydromorphone	1.634	11149	335.19	75.3	773.77	13304	28.4087 ng/ml
Ketamine	4.042	20227	465.45	37.2	597.17	31701	28.7815 ng/ml
Lamotrigine	4.304	2810	2201.03	79.6	2004.41	31701	29.4595 ng/ml
Lorazepam	5.737	42970	1262.70	56.9	301.71	9119	8.3675 ng/ml
Meprobamate	4.919	18446	236.95	28.5	1805.41	28247	29.5057 ng/ml
Methadone	5.650	26802	388.86	52.4	3125.86	41940	28.5638 ng/ml
Methamphetamine	3.237	19642	2068.64	40.6	52.62	27133	29.8136 ng/ml
Metoprolol	4.329	4413	6769.28	101.8	∞	70956	29.9150 ng/ml
Mirtazapine	4.617	26377	12029.50	47.5	2411.16	28955	33.1467 ng/ml
Mitragynine	5.221	4846	19820.28	40.8	7672.89	41940	29.8896 ng/ml
Morphine	1.266	2331	4505.62	23.0	335.52	798	29.5613 ng/ml
Norbuprenorphine	4.995	531	432.73	98.0	99.76	7097	2.9358 ng/ml
Nordiazepam	5.891	17377	1122.65	57.6	999.85	17531	29.0877 ng/ml
Norfentanyl	4.091	2705	3864.41	37.8	208.53	39703	2.7878 ng/ml
Norhydrocodone	3.087	2109	188.59	42.2	261.29	21005	24.4683 ng/ml
Noroxycodone	2.935	9816	115.92	49.7	785.55	11834	29.4338 ng/ml
O-desmethyl-tramadol	3.386	56675	14160.65	6.7	644.26	85647	28.3248 ng/ml
Oxazepam	5.747	44954	2056.28	72.6	93.47	60267	29.6464 ng/ml
Oxycodone	2.853	19072	173.71	32.3	53.76	28272	28.3681 ng/ml
Oxymorphone	1.423	14071	821.70	47.5	535.87	16057	29.3899 ng/ml
Phentermine	3.787	7847	169.54	3.8	55.83	26657	29.4317 ng/ml
Promethazine	5.542	31959	1355.20	28.4	731.88	43593	27.5841 ng/ml
Quetiapine	5.545	20032	4068.91	59.3	19653.87	9696	27.1972 ng/ml
Sertraline	5.773	11285	488.38	91.2	14831.88	15096	28.1658 ng/ml
Temazepam	5.808	47853	503.93	30.0	403.10	71736	29.3798 ng/ml
Tramadol	4.249	42844	16587.39	3.4	259.66	70956	29.3493 ng/ml
Trazodone	5.126	19685	315.72	77.9	31017.52	27922	26.8117 ng/ml
Venlafaxine	5.046	31597	631.75	37.0	208.45	51860	27.6986 ng/ml
Zolpidem	4.883	50874	55716.86	31.4	65376.31	81511	29.1911 ng/ml

AM #28 Multi-Drug Quant. Results



SP

Batch results

Calibration Last Update

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Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

FALCO-LCMS (Property ID 069901)
Cal
MDQ P1 Combined 011619.m
P1-E12
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4/30/2019 12:26:06 PM

Data File

Sample

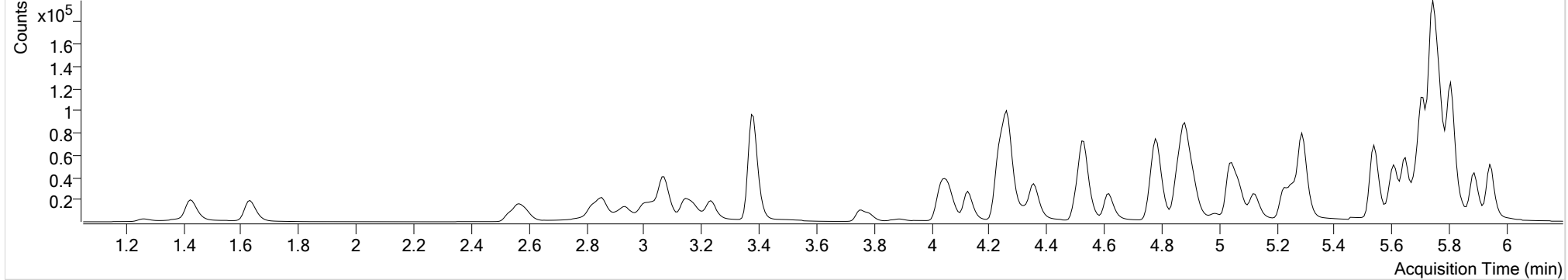
Operator

Comment

p1 Cal 4-50ng.d
p1 Cal 4-50ng
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 4-50ng.d (p1 Cal 4-50ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	5164	4657.10	68.9	1667.42	32416	4.6009 ng/ml
7-aminoclonazepam	4.260	29077	34563.55	78.1	12516.43	25094	50.3761 ng/ml
a-hydroxyalprazolam	5.689	24338	667.84	64.2	423.57	24660	49.7621 ng/ml
alpha-PVP	4.366	30357	9984.45	52.9	5022.89	28793	43.6586 ng/ml
Alprazolam	5.766	47526	1638.51	106.2	2044.40	29939	43.5206 ng/ml
Amphetamine	3.075	47062	1266.62	53.3	2111.65	13199	50.3057 ng/ml
Benzoyllecgonine	3.890	2087	189.22	8.0	∞	1654	42.9727 ng/ml
Buprenorphine	5.803	2654	255.24	16.8	283.50	23191	4.4928 ng/ml
Bupropion	4.789	90526	25956.73	58.9	8977.90	64229	45.5404 ng/ml
Carisoprodol	5.714	57667	2573.78	56.9	225.69	62217	46.2199 ng/ml
Citalopram	5.229	23331	694.02	42.1	673.13	20785	44.2619 ng/ml
Clonazepam	5.602	34053	479.37	35.2	352.17	11421	48.5341 ng/ml
Cocaine	4.266	34795	136164.83	44.4	62752.08	69510	43.2193 ng/ml
Codeine	2.597	7431	763.49	103.5	9549.32	7092	44.9021 ng/ml
Cyclobenzaprine	5.618	23823	8347.72	10.8	826.35	19519	45.5703 ng/ml
Dextromethorphan	5.265	15381	2625.17	78.8	983.52	15026	44.5741 ng/ml
Dextrorphan	4.129	10677	33308.06	204.2	1368.75	25468	43.8021 ng/ml
Diazepam	5.945	32939	6863.26	85.7	4822.84	31069	45.6568 ng/ml

p1 Cal 4-50ng

AM #28 Multi-Drug Quant. Results



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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	18015	8469.31	68.3	52448.22	20025	48.7135 ng/ml
Diphenhydramine	5.292	68506	20257.19	33.9	600.71	72861	44.2313 ng/ml
Doxylamine	4.529	73028	14303.33	97.8	14702.73	67016	45.8277 ng/ml
EDDP	5.257	7787	227.33	42.2	328.12	8993	44.6510 ng/ml
Fentanyl	5.086	2288	1172.94	73.4	5136.16	23065	4.6394 ng/ml
Fluoxetine	5.704	28618	9537.55	9.8	∞	21994	43.5981 ng/ml
Hydrocodone	3.032	18915	951.74	39.7	92.19	23301	48.1430 ng/ml
Hydromorphone	1.634	22568	∞	75.1	1012.34	16731	45.4968 ng/ml
Ketamine	4.042	39041	1235.43	36.5	7150.32	37255	47.1946 ng/ml
Lamotrigine	4.297	5708	5322.80	82.3	21668.23	37255	51.4268 ng/ml
Lorazepam	5.737	80084	1644.05	56.5	280.17	11421	40.8648 ng/ml
Meprobamate	4.919	37217	12225.60	29.0	2253.69	35133	48.0506 ng/ml
Methadone	5.650	39387	1620.86	52.1	620.36	38630	44.8804 ng/ml
Methamphetamine	3.237	28347	520.16	41.4	∞	24796	47.2607 ng/ml
Metoprolol	4.329	7872	4791.59	94.4	∞	76467	50.6462 ng/ml
Mirtazapine	4.617	38368	∞	48.7	3872.89	28793	49.3282 ng/ml
Mitragynine	5.221	7399	11095.80	38.1	5566.86	38630	50.3909 ng/ml
Morphine	1.266	4752	3682.95	23.0	4662.11	1035	46.3144 ng/ml
Norbuprenorphine	4.988	774	246.67	97.4	361.93	6570	4.6727 ng/ml
Nordiazepam	5.891	35074	3856.49	56.6	966.58	21780	47.1252 ng/ml
Norfentanyl	4.091	4979	12893.87	37.1	171.82	44840	4.4987 ng/ml
Norhydrocodone	3.087	4183	160.88	43.3	193.31	22143	44.3250 ng/ml
Noroxycodone	2.935	17489	128.69	51.0	310.00	13553	45.8697 ng/ml
O-desmethyl-tramadol	3.386	117411	61350.18	6.6	644.15	109944	45.4903 ng/ml
Oxazepam	5.747	89872	1127.27	70.1	524.49	72824	49.8432 ng/ml
Oxycodone	2.853	38628	278.41	31.9	83.68	34262	47.3710 ng/ml
Oxymorphone	1.423	28398	902.57	49.0	255.93	21381	44.4968 ng/ml
Phentermine	3.787	11721	839.35	4.1	117.26	24877	47.0557 ng/ml
Promethazine	5.542	45905	8857.30	28.9	1480.76	38155	44.2108 ng/ml
Quetiapine	5.545	30721	8829.76	60.7	∞	8879	45.1578 ng/ml
Sertraline	5.773	15631	477.00	92.7	1549.02	12725	45.4299 ng/ml
Temazepam	5.808	97436	1126.41	30.4	135.83	91017	47.1537 ng/ml
Tramadol	4.242	73874	15555.21	3.4	535.04	76467	46.9072 ng/ml
Trazodone	5.126	29288	384.79	79.1	342.65	25481	42.4777 ng/ml
Venlafaxine	5.040	50002	1393.98	36.8	302.48	49854	44.5661 ng/ml
Zolpidem	4.883	101778	∞	31.8	14307.64	101338	46.8624 ng/ml

AM #28 Multi-Drug Quant. Results



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Batch results

Calibration Last Update

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Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

FALCO-LCMS (Property ID 069901)
Cal
MDQ P1 Combined 011619.m
P1-D12
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Data File

Sample

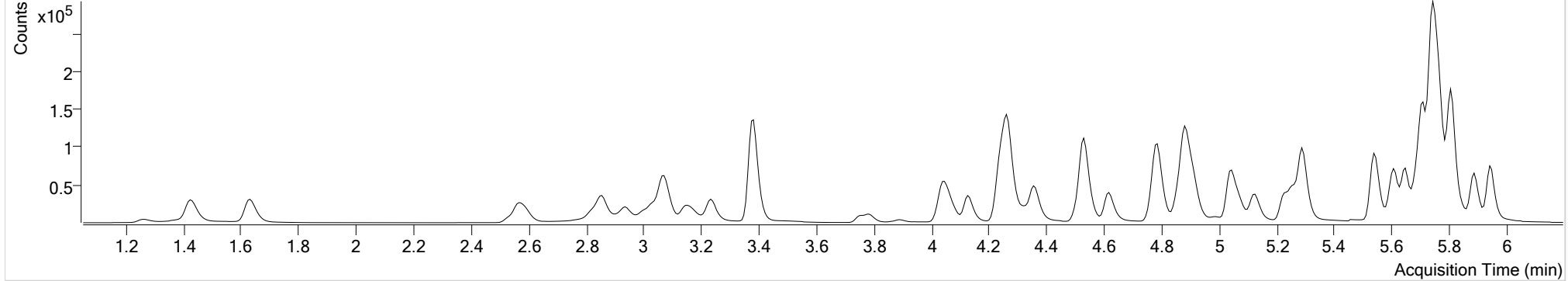
Operator

Comment

p1 Cal 5-100ng.d
p1 Cal 5-100ng
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 5-100ng.d (p1 Cal 5-100ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	9307	2596.08	72.7	3658.99	29195	9.1359 ng/ml
7-aminoclonazepam	4.260	54637	12565.93	79.9	15045.23	23573	101.7873 ng/ml
a-hydroxyalprazolam	5.689	45237	2483.26	64.0	624.17	22192	103.9266 ng/ml
alpha-PVP	4.366	53659	12773.51	51.3	5727.43	24677	88.6089 ng/ml
Alprazolam	5.766	89693	1469.08	103.9	2353.42	27042	89.1951 ng/ml
Amphetamine	3.075	82640	5392.69	56.5	2710.78	11698	99.8992 ng/ml
Benzoylcegonine	3.890	4167	8989.59	7.8	413.75	1579	88.8487 ng/ml
Buprenorphine	5.810	4196	128.17	17.1	1053.54	18280	9.0093 ng/ml
Bupropion	4.789	145707	24134.71	58.7	5447.28	51649	90.1590 ng/ml
Carisoprodol	5.714	105945	11597.79	57.7	1246.98	56645	93.0996 ng/ml
Citalopram	5.229	36415	1752.25	42.1	1320.84	15859	89.0787 ng/ml
Clonazepam	5.602	61237	8092.07	34.9	2241.28	10447	95.5130 ng/ml
Cocaine	4.266	61523	626715.75	44.3	29351.57	60346	86.2637 ng/ml
Codeine	2.597	13627	325.38	101.1	146.42	6472	89.1217 ng/ml
Cyclobenzaprine	5.618	37511	10484.21	10.6	17638.75	15404	90.4083 ng/ml
Dextromethorphan	5.265	24552	439.17	80.9	∞	11800	89.2241 ng/ml
Dextrorphan	4.129	18040	3480.77	207.3	23064.69	21270	87.0010 ng/ml
Diazepam	5.945	59021	686.50	87.7	485.40	27718	91.4927 ng/ml

AM #28 Multi-Drug Quant. Results



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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	33967	99360.53	68.1	17060.86	18565	99.3699 ng/ml
Diphenhydramine	5.292	107900	11400.50	34.7	8322.10	56798	87.8645 ng/ml
Doxylamine	4.529	125702	63274.45	98.2	98412.80	57091	91.9572 ng/ml
EDDP	5.257	18799	1327.44	41.7	605.28	10236	88.9912 ng/ml
Fentanyl	5.086	3491	579.59	75.4	8760.41	18272	8.8758 ng/ml
Fluoxetine	5.704	46723	8747.08	9.9	11458.32	17604	87.2332 ng/ml
Hydrocodone	3.032	34309	∞	39.8	∞	20901	97.7862 ng/ml
Hydromorphone	1.634	42769	872.85	76.7	1797.90	15822	90.7993 ng/ml
Ketamine	4.042	70065	1143.92	37.0	607.08	33580	93.8543 ng/ml
Lamotrigine	4.297	10598	6993.22	81.0	2189.98	33580	106.6819 ng/ml
Lorazepam	5.737	130465	8150.15	56.7	747.35	10447	118.2576 ng/ml
Meprobamate	4.919	67358	12925.33	28.0	211.78	32004	95.7613 ng/ml
Methadone	5.650	61209	739.93	51.8	973.62	29904	88.9293 ng/ml
Methamphetamine	3.237	50861	∞	39.9	582.04	22032	95.7522 ng/ml
Metoprolol	4.329	13826	39634.02	92.9	∞	67826	101.9904 ng/ml
Mirtazapine	4.617	61338	23149.03	48.4	3763.83	24677	93.5871 ng/ml
Mitragynine	5.221	11661	1464.58	38.8	8593.48	29904	103.9321 ng/ml
Morphine	1.266	9385	∞	22.4	3143.16	1006	93.8110 ng/ml
Norbuprenorphine	4.995	1168	1429.77	99.5	113.29	5175	9.0379 ng/ml
Nordiazepam	5.891	61838	4054.49	57.8	2301.04	19259	93.7536 ng/ml
Norfentanyl	4.091	9480	2936.33	37.4	1812.90	42257	9.0145 ng/ml
Norhydrocodone	3.087	9188	294.29	41.9	382.04	19817	105.9651 ng/ml
Noroxycodone	2.935	33272	728.53	48.4	507.33	12119	97.7528 ng/ml
O-desmethyl-tramadol	3.386	217752	53475.53	6.6	2511.78	100619	91.8167 ng/ml
Oxazepam	5.747	151915	4629.18	69.7	1867.40	61025	101.7740 ng/ml
Oxycodone	2.853	71721	1946.36	31.4	271.65	32982	91.3120 ng/ml
Oxymorphone	1.423	53389	470.67	47.0	938.76	19296	92.5868 ng/ml
Phentermine	3.787	21230	8911.78	3.7	118.14	21878	96.8197 ng/ml
Promethazine	5.542	73739	8318.14	27.5	1096.73	30332	87.6506 ng/ml
Quetiapine	5.545	49525	1015.12	59.0	∞	6780	94.7025 ng/ml
Sertraline	5.773	23465	58609.51	90.4	512.41	9701	88.1713 ng/ml
Temazepam	5.808	177315	2898.55	30.5	259.23	82800	94.3340 ng/ml
Tramadol	4.242	132157	41747.87	3.6	700.99	67826	94.5192 ng/ml
Trazodone	5.126	47173	∞	77.3	25878.37	19810	85.9064 ng/ml
Venlafaxine	5.046	84131	3112.57	37.6	1012.23	41806	87.8158 ng/ml
Zolpidem	4.883	178929	46633.69	32.0	42639.60	89006	93.6171 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

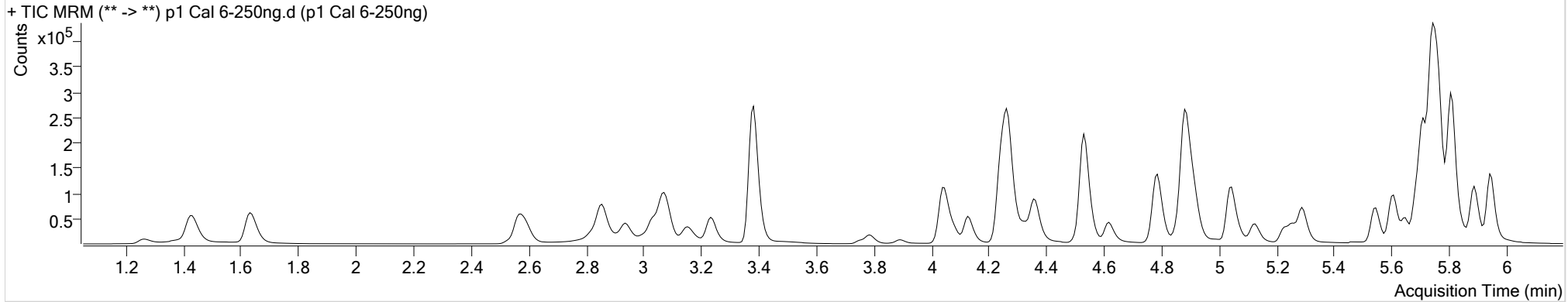
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SP

Instrument Type FALCO-LCMS (Property ID 069901)
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-C12
Injection Volume 1
Acq. Date-Time 4/30/2019 12:47:01 PM
Sample Info.

Data File p1 Cal 6-250ng.d
Sample Operator Sarah Pickle
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	23121	2556.57	72.2	3917.63	29740	22.1782 ng/ml
7-aminoclonazepam	4.260	102798	30265.69	81.7	20053.58	18879	240.5014 ng/ml
a-hydroxyalprazolam	5.689	95151	844.20	63.8	4242.62	19749	247.1021 ng/ml
alpha-PVP	4.366	112103	4516.80	51.6	13093.22	21425	211.3144 ng/ml
Alprazolam	5.766	200282	7141.40	103.0	2441.78	25404	209.8149 ng/ml
Amphetamine	3.075	135690	3790.73	56.0	13944.77	8317	231.0360 ng/ml
Benzoyllecgonine	3.890	9798	12091.27	7.5	691.73	1603	204.5548 ng/ml
Buprenorphine	5.810	3122	64.61	16.5	256.46	5411	22.6356 ng/ml
Bupropion	4.789	205223	47468.32	58.7	964.16	30545	213.3496 ng/ml
Carisoprodol	5.714	229284	16561.65	57.5	1242.42	51099	223.1238 ng/ml
Citalopram	5.229	36597	894.23	41.2	35349.25	6542	215.0240 ng/ml
Clonazepam	5.602	126592	21404.79	35.2	46742.25	8851	233.2122 ng/ml
Cocaine	4.266	150791	104258.30	43.9	25729.61	59758	211.0081 ng/ml
Codeine	2.597	32215	13257.54	101.1	191.82	6256	216.3823 ng/ml
Cyclobenzaprine	5.618	23269	216.17	10.4	517.06	3869	222.5170 ng/ml
Dextromethorphan	5.265	18335	1519.93	79.5	182.65	3717	209.7218 ng/ml
Dextrorphan	4.129	33096	19172.61	205.2	13578.71	15876	211.5455 ng/ml
Diazepam	5.945	130416	15687.09	85.4	7449.02	24964	224.1714 ng/ml

AM #28 Multi-Drug Quant. Results



SP

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	82851	98201.42	68.4	48543.96	19554	230.4855 ng/ml
Diphenhydramine	5.292	92571	14184.86	34.4	14051.78	20017	211.7814 ng/ml
Doxylamine	4.529	260353	126837.69	98.2	44065.88	49768	217.6213 ng/ml
EDDP	5.257	23422	1339.33	42.7	13916.50	5404	203.0819 ng/ml
Fentanyl	5.086	2072	∞	78.8	1516.32	4360	21.9859 ng/ml
Fluoxetine	5.704	25779	1735.33	9.8	2989.60	3850	217.6055 ng/ml
Hydrocodone	3.032	80690	∞	39.3	460.45	21110	228.2667 ng/ml
Hydromorphone	1.634	97360	∞	72.2	∞	14459	225.6302 ng/ml
Ketamine	4.042	172383	30046.29	36.8	4848.73	34054	227.5326 ng/ml
Lamotrigine	4.297	23448	18391.48	81.7	13936.36	34054	233.5776 ng/ml
Lorazepam	5.737	198783	2322.19	55.8	655.03	8851	259.1867 ng/ml
Meprobamate	4.919	136330	∞	27.4	7548.79	28746	216.1625 ng/ml
Methadone	5.650	45433	2444.96	51.9	10545.60	9133	214.4698 ng/ml
Methamphetamine	3.237	89336	3110.09	41.5	5309.10	16843	220.3985 ng/ml
Metoprolol	4.329	29475	12555.34	95.2	∞	68518	217.1512 ng/ml
Mirtazapine	4.617	61896	30442.66	48.4	12622.24	21425	109.0664 ng/ml
Mitragynine	5.221	6921	7077.21	40.0	3772.98	9133	203.1872 ng/ml
Morphine	1.266	21099	32674.12	22.7	570.42	940	225.1539 ng/ml
Norbuprenorphine	4.995	936	76.11	97.0	210.61	1793	21.0180 ng/ml
Nordiazepam	5.891	125466	8580.17	58.4	11040.43	16637	219.9172 ng/ml
Norfentanyl	4.091	23711	569.88	36.8	652.41	41596	22.7945 ng/ml
Norhydrocodone	3.087	28326	∞	41.6	302.54	19424	329.1293 ng/ml
Noroxycodone	2.935	70745	421.35	51.8	450.54	11595	217.4257 ng/ml
O-desmethyl-tramadol	3.386	531604	118420.71	6.7	22892.28	100358	224.2152 ng/ml
Oxazepam	5.747	247291	6298.78	70.2	1452.25	43259	235.2831 ng/ml
Oxycodone	2.853	174432	1624.71	32.3	108.21	32042	228.5036 ng/ml
Oxymorphone	1.430	119265	∞	46.7	602.44	17496	227.9678 ng/ml
Phentermine	3.787	37885	3522.95	3.9	172.12	16533	228.5146 ng/ml
Promethazine	5.542	42770	16329.35	29.0	264.16	7364	207.1197 ng/ml
Quetiapine	5.545	59958	8094.55	60.7	688.43	3440	225.1286 ng/ml
Sertraline	5.780	12397	4959.68	90.3	543.45	2190	204.6092 ng/ml
Temazepam	5.808	383495	21627.75	29.8	714.02	75309	224.3275 ng/ml
Tramadol	4.242	320259	248103.71	3.5	729.11	68518	226.6164 ng/ml
Trazodone	5.126	49273	7016.95	76.4	39009.35	8082	216.8879 ng/ml
Venlafaxine	5.046	165137	15133.49	38.0	907.45	34097	209.1041 ng/ml
Zolpidem	4.883	442896	8727.75	31.0	346152.53	90487	227.6713 ng/ml

AM #28 Multi-Drug Quant. Results



SP

Batch results

Calibration Last Update

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Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

FALCO-LCMS (Property ID 069901)
Cal
MDQ P1 Combined 011619.m
P1-B12
1
4/30/2019 12:57:31 PM

Data File

Sample

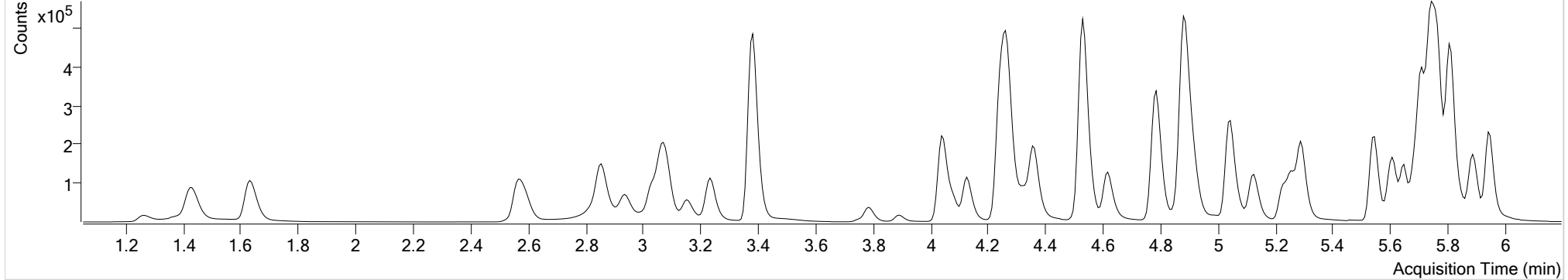
Operator

Comment

p1 Cal 7-500ng.d
p1 Cal 7-500ng
Sarah Pickle

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 7-500ng.d (p1 Cal 7-500ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	51186	3157.15	71.5	1516.48	26367	55.2726 ng/ml
7-aminoclonazepam	4.267	172438	15846.78	81.6	∞	13889	549.7059 ng/ml
a-hydroxyalprazolam	5.689	149785	3696.41	66.9	1283.88	14857	518.2561 ng/ml
alpha-PVP	4.366	267954	6021.16	51.6	10432.22	20823	517.7272 ng/ml
Alprazolam	5.766	359269	2922.85	102.1	∞	17944	530.3823 ng/ml
Amphetamine	3.069	298055	6537.82	56.0	11066.49	8270	510.6567 ng/ml
Benzoylcegonine	3.890	22513	669.94	7.4	1888.58	1447	519.0783 ng/ml
Buprenorphine	5.810	9505	693.48	16.0	618.15	6707	55.6003 ng/ml
Bupropion	4.789	524217	∞	59.1	24697.79	31346	529.5815 ng/ml
Carisoprodol	5.714	378800	28130.29	56.8	14900.62	36018	522.7466 ng/ml
Citalopram	5.229	118148	2737.40	41.6	1114.27	8577	527.3924 ng/ml
Clonazepam	5.602	205092	17438.49	34.8	12987.44	6640	503.7616 ng/ml
Cocaine	4.266	339449	382762.06	44.1	217134.52	54196	521.2427 ng/ml
Codeine	2.597	61283	24048.39	101.0	69076.01	4888	525.2261 ng/ml
Cyclobenzaprine	5.618	84969	∞	10.6	11025.84	5727	548.2067 ng/ml
Dextromethorphan	5.265	60425	∞	79.3	4448.23	4868	525.6385 ng/ml
Dextrorphan	4.129	77173	18163.91	205.4	8966.53	14834	525.5757 ng/ml
Diazepam	5.945	245180	12353.93	85.2	6245.06	19421	541.4166 ng/ml

AM #28 Multi-Drug Quant. Results



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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	165044	33528.77	68.0	28061.64	17208	522.0952 ng/ml
Diphenhydramine	5.292	291733	37720.27	34.4	13885.43	25496	521.8131 ng/ml
Doxylamine	4.529	657094	970355.56	97.8	160900.91	51170	533.2772 ng/ml
EDDP	5.257	92507	5822.20	41.5	7920.70	8069	528.7606 ng/ml
Fentanyl	5.086	7801	1108.68	74.0	10998.71	6593	54.6386 ng/ml
Fluoxetine	5.704	92581	22407.55	9.7	∞	5667	528.5523 ng/ml
Hydrocodone	3.032	170797	1426.78	39.6	∞	18623	548.3014 ng/ml
Hydromorphone	1.634	182194	∞	75.7	∞	11075	550.6922 ng/ml
Ketamine	4.042	373166	334674.86	37.1	2609.91	30999	540.9412 ng/ml
Lamotrigine	4.297	46626	7516.65	81.0	21382.49	30999	511.0864 ng/ml
Lorazepam	5.737	253658	6721.28	56.8	608.36	6640	481.6910 ng/ml
Meprobamate	4.919	227396	79907.80	28.3	7902.25	20041	517.5969 ng/ml
Methadone	5.650	155581	38361.95	51.0	37548.98	12579	531.5013 ng/ml
Methamphetamine	3.237	191476	11875.98	42.9	3502.84	15528	512.8166 ng/ml
Metoprolol	4.329	68275	569884.87	94.2	12766.61	64287	538.6486 ng/ml
Mirtazapine	4.617	195525	∞	48.8	40595.89	20823	358.5890 ng/ml
Mitragynine	5.221	25449	57183.25	38.4	16566.52	12579	544.6401 ng/ml
Morphine	1.266	39967	6172.96	22.5	9705.16	750	534.2741 ng/ml
Norbuprenorphine	4.995	2938	2664.01	98.0	238.87	2189	54.2241 ng/ml
Nordiazepam	5.891	214367	13895.60	57.4	3542.10	11675	535.1093 ng/ml
Norfentanyl	4.091	60126	46932.56	36.9	13648.61	40511	59.2342 ng/ml
Norhydrocodone	3.087	72939	335.16	41.7	720.77	16886	971.1212 ng/ml
Noroxycodone	2.935	138667	∞	49.4	∞	9255	534.0933 ng/ml
O-desmethyl-tramadol	3.386	1069839	96499.55	6.7	8034.61	81900	552.3940 ng/ml
Oxazepam	5.747	288650	∞	69.2	∞	22470	530.2354 ng/ml
Oxycodone	2.853	361817	∞	31.5	6261.34	27736	547.4866 ng/ml
Oxymorphone	1.430	218778	∞	46.9	401.42	13425	544.8615 ng/ml
Phentermine	3.787	87836	8325.63	3.7	168.34	16283	537.8358 ng/ml
Promethazine	5.542	161224	37501.73	28.8	534.68	11023	519.0888 ng/ml
Quetiapine	5.545	186529	52029.84	60.9	1932.10	4289	560.9769 ng/ml
Sertraline	5.780	42411	2711.89	91.1	1254.41	2872	531.5104 ng/ml
Temazepam	5.808	667851	31267.95	29.7	660.29	54430	540.5327 ng/ml
Tramadol	4.242	715884	167969.66	3.6	2124.08	64287	539.7771 ng/ml
Trazodone	5.126	160336	∞	80.7	∞	11214	505.9793 ng/ml
Venlafaxine	5.046	430194	51730.81	37.0	14587.66	35838	515.9064 ng/ml
Zolpidem	4.883	967549	266215.91	31.2	442879.66	83819	536.6887 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update

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Instrument Type
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

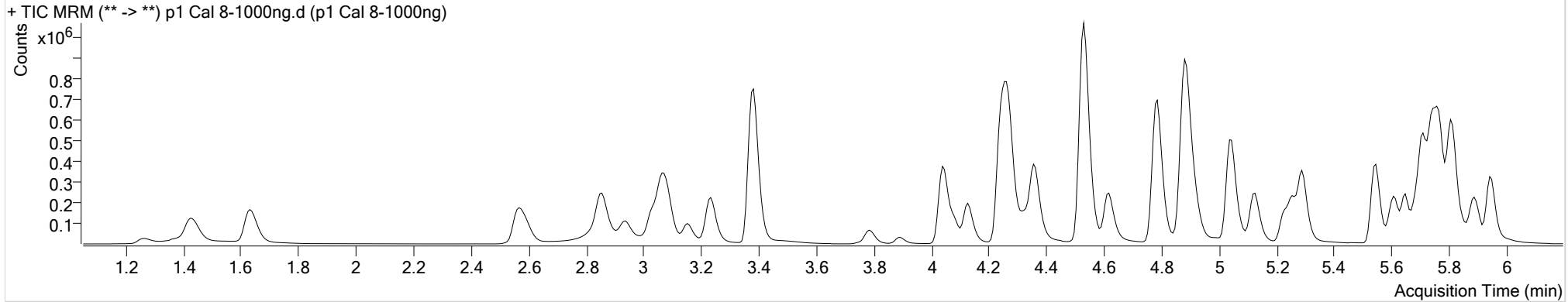
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MDQ P1 Combined 011619.m
P1-A12
1
4/30/2019 1:07:59 PM

Data File
Sample
Operator
Comment

p1 Cal 8-1000ng.d
p1 Cal 8-1000ng
Sarah Pickle

5

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	97185	109158.79	71.4	35247.18	25445	108.6756 ng/ml
7-aminoclonazepam	4.267	230219	27492.26	79.9	9768.04	10690	954.2088 ng/ml
a-hydroxyalprazolam	5.689	214959	2739.73	65.4	∞	11315	977.5191 ng/ml
alpha-PVP	4.360	556161	227560.51	51.6	41586.68	21609	1034.1410 ng/ml
Alprazolam	5.766	540745	7224.16	100.9	2318.23	13974	1023.5841 ng/ml
Amphetamine	3.069	528840	16348.09	56.1	17546.80	8662	865.2123 ng/ml
Benzoylcegonine	3.890	41843	39321.24	7.6	3971.36	1344	1037.9822 ng/ml
Buprenorphine	5.810	15890	2005.84	16.7	2446.97	5674	109.8632 ng/ml
Bupropion	4.789	1106459	175124.11	59.0	52524.99	34414	1017.2170 ng/ml
Carisoprodol	5.714	521424	43996.68	58.3	21896.39	24538	1056.0339 ng/ml
Citalopram	5.229	201091	1049.81	42.8	1185.19	7538	1020.0618 ng/ml
Clonazepam	5.602	284561	27428.94	34.8	35507.78	5099	910.2882 ng/ml
Cocaine	4.266	635967	376746.52	43.5	275140.63	51096	1034.1237 ng/ml
Codeine	2.597	99997	7255.69	100.4	1937.51	4104	1019.6634 ng/ml
Cyclobenzaprine	5.618	138426	55571.88	10.6	1172.03	4656	1097.9444 ng/ml
Dextromethorphan	5.265	101859	46600.28	79.4	15418.40	4197	1026.4823 ng/ml
Dextrorphan	4.129	136948	20732.29	204.9	1720.83	13435	1028.2906 ng/ml
Diazepam	5.945	375103	5645.71	86.2	4767.74	15136	1062.6349 ng/ml

AM #28 Multi-Drug Quant. Results



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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	274714	91864.69	68.5	415015.65	16804	890.1314 ng/ml
Diphenhydramine	5.292	520978	283411.82	34.3	46403.49	23031	1030.1709 ng/ml
Doxylamine	4.529	1383422	174443.78	96.5	353064.33	57017	1007.0592 ng/ml
EDDP	5.257	180089	20801.83	42.4	4045.59	8035	1028.8144 ng/ml
Fentanyl	5.086	13528	779.73	72.2	14028.51	5563	112.2318 ng/ml
Fluoxetine	5.704	127097	15954.44	9.7	12895.76	4028	1019.3340 ng/ml
Hydrocodone	3.032	293820	1740.72	42.6	1973.89	18052	973.4102 ng/ml
Hydromorphone	1.634	310890	∞	70.7	∞	9841	1057.1419 ng/ml
Ketamine	4.042	675846	196498.02	37.4	18170.11	30609	992.0815 ng/ml
Lamotrigine	4.297	74848	∞	80.5	64358.91	30609	831.3169 ng/ml
Lorazepam	5.737	287975	17081.29	56.9	992.02	5099	739.9944 ng/ml
Meprobamate	4.919	328533	73041.81	27.8	14685.08	14742	1016.9031 ng/ml
Methadone	5.650	266664	65945.43	50.9	22138.00	11268	1015.8998 ng/ml
Methamphetamine	3.237	418116	4648.50	40.3	5523.45	17310	1004.8064 ng/ml
Metoprolol	4.329	125263	100343.59	94.0	∞	64457	987.0903 ng/ml
Mirtazapine	4.617	380260	629561.33	48.0	130571.93	21609	673.6067 ng/ml
Mitragynine	5.221	41558	160571.90	37.7	20809.87	11268	993.8990 ng/ml
Morphine	1.266	65969	3903.50	22.8	2144.27	643	1027.7553 ng/ml
Norbuprenorphine	4.995	5200	2301.99	92.4	335.18	1952	107.6955 ng/ml
Nordiazepam	5.891	281135	8977.69	58.3	∞	8443	970.2280 ng/ml
Norfentanyl	4.091	128493	993.58	37.8	1524.71	41063	124.8056 ng/ml
Norhydrocodone	3.087	138473	∞	41.7	319.51	15761	1973.2762 ng/ml
Noroxycodone	2.935	222069	∞	48.9	169.27	7842	1009.6281 ng/ml
O-desmethyl-tramadol	3.386	1799371	898603.39	6.7	96715.56	72042	1055.8824 ng/ml
Oxazepam	5.747	292285	5412.16	69.7	1367.33	12333	979.2421 ng/ml
Oxycodone	2.853	642652	∞	31.4	3703.94	26737	1008.7230 ng/ml
Oxymorphone	1.423	368327	∞	47.3	∞	12072	1020.0675 ng/ml
Phentermine	3.787	165528	7909.00	3.8	3828.62	17578	938.8087 ng/ml
Promethazine	5.542	258074	∞	29.4	1441.54	8810	1037.8905 ng/ml
Quetiapine	5.545	360599	195173.48	60.7	983.71	4430	1049.3265 ng/ml
Sertraline	5.780	56071	494.24	87.5	763.62	1965	1026.0726 ng/ml
Temazepam	5.808	923572	∞	30.5	2209.28	40827	996.5565 ng/ml
Tramadol	4.242	1296253	17910.09	3.6	2591.00	64457	974.7292 ng/ml
Trazodone	5.126	331588	∞	79.1	88932.53	11205	1045.1870 ng/ml
Venlafaxine	5.040	892675	72607.59	36.9	16860.46	36882	1038.6011 ng/ml
Zolpidem	4.883	1721749	207196.76	31.4	173632.13	82392	971.4350 ng/ml