

REVIEWED

By Anne Nord at 4:41 pm, Mar 29, 2019

3/28/2019

B
D

Worklist: 3170

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2019-0962	1	146465	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1042	1	146466	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1043	1	146467	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1064	1	146468	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1144	2	146469	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1173	1	146470	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1254	4	146471	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0806	1	146472	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0807	1	146473	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0808	1	146474	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0810	1	146476	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0811	1	146477	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0831	1	146478	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0832	1	146479	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0868	1	146480	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0870	1	146481	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0874	1	146482	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0904	1	146483	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0905	1	146484	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0920	1	146485	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0948	1	146486	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0949	1	146487	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

TS P

3/28/2019

Worklist: 3171

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
P2019-0794	1	146491	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q



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

TS
D

Extraction Date: 3/28/19

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 (2.1x100-4um)~~

LCMS-QQQ ID: 069910

Agilent 120 EC-C18 (2.1 x 100-2.7um) 09/16/19 TS

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: #16** 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: 032819 MDQ SP Batch Name: MDQ PI
- 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:** 7-aminoclonazepam 5-500, amphetamine 5-100, norfentanyl 0.5-50, norhydrocodone 5-100, nordiazepam 5-500, oxazepam 5-500

Did not evaluate: lamotrigine, lorazepam, norbuprenorphine

Sertraline reported qualitatively. Oxazepam and nordiazepam quantitative range is 5-500.

Case sample P2019-0794 from worklist 3171 ran with worklist 3170. Sarah Pickle acted as the primary analyst. I witnessed and approved of all methods used. - TS



Idaho State Police Forensic Services

TS B

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.

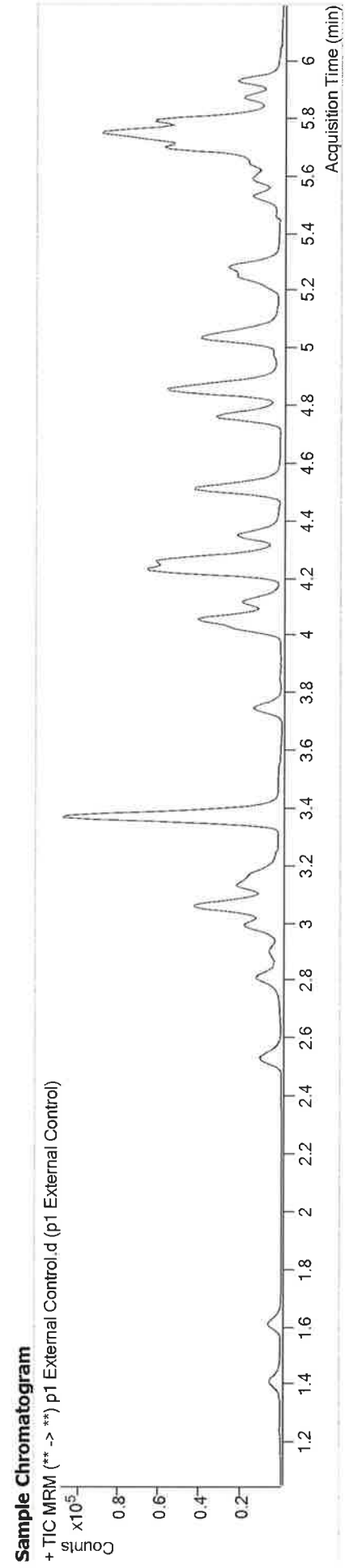
<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
Methanol External Control Solution		121218
Prepared:	12/12/18	
Prepared by:	Sarah Pickle	
Expires:	12/12/19	



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Calibration Last Update 3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901)
Type Sample p1 External Control.d
Acq. Method MDQ P1 Combined 011619.m p1 External Control
Sample Position P1-C11 Sarah Pickle
Injection Volume 1
Acq. Date-Time 3/28/2019 5:59:10 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.759	54804	4910.22	101.8	1792.79	35753	41.0802 ng/ml
Amphetamine	3.069	55661	2201.65	57.4	3373.26	18044	42.4810 ng/ml
Fluoxetine	5.704	14179	238.02	9.3	1519.26	14029	33.6351 ng/ml
O-desmethyl-tramadol	3.379	130870	8986.25	6.5	328.09	139105	39.6899 ng/ml
Sertraline	5.773	326	13.12	93.5	46.86	7583	2.1816 ng/ml

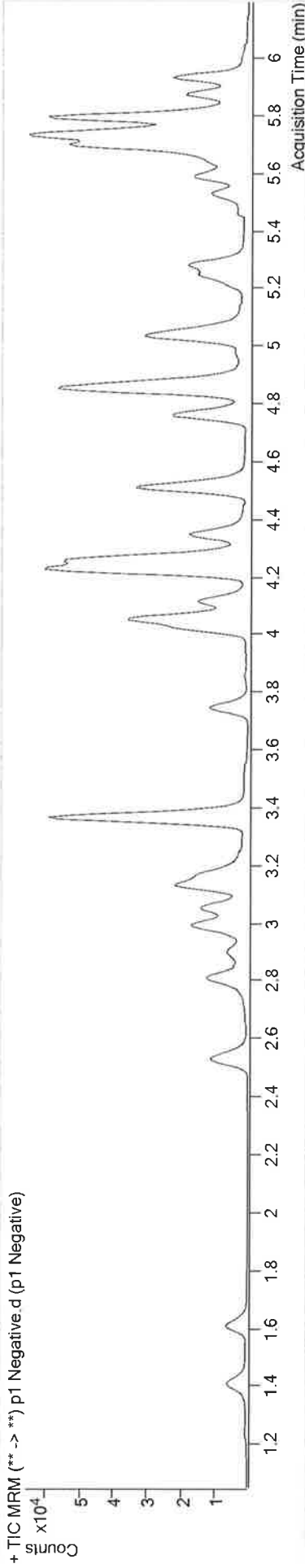


AM #28 Multi-Drug Quant. Results

Batch results
 Calibration Last Update: D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
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Instrument FALCO-LCMS (Property ID 069901)
Type p1 Negative.d
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-D11
Injection Volume 1
Acq. Date-Time 3/28/2019 5:38:13 PM
Sample Info. Sarah Pickle

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Fluoxetine	5.704	807	1519.46	11.5	48.70	8424	5.1485 ng/ml
Methamphetamine	3.237	864	14.16	39.7	8.49 Low	29219	1.1304 ng/ml
Promethazine	5.535	1142	619.04	27.5	182.54	13489	3.5513 ng/ml
Sertraline	5.773	573	64.55	94.8	42.05	4728	5.0394 ng/ml

Reinjected 3/29/19 due to carryover.

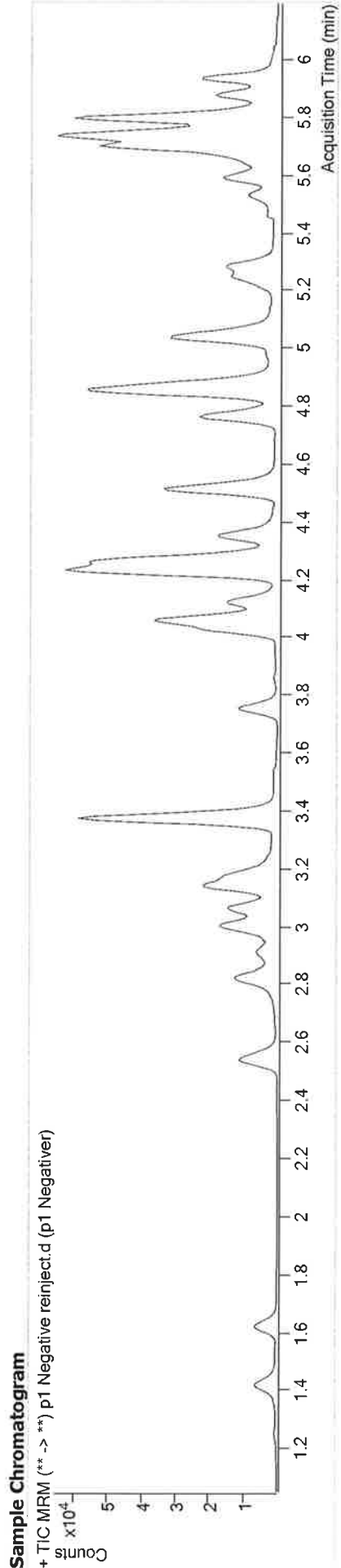
B R



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Calibration Last Update 3/29/2019 2:37:11 PM

Instrument Type FALCO-LCMS (Property ID 069901)
Sample p1 Negative reinject.d
Acq. Method MDQ P1 Combined 011619.m
Operator Sarah Pickle
Sample Position P1-D11
Injection Volume 1
Acq. Date-Time 3/29/2019 8:41:03 AM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Methamphetamine	3.244	786	6.79 Low	46.6	17.41	29634	1.0070 ng/ml LS

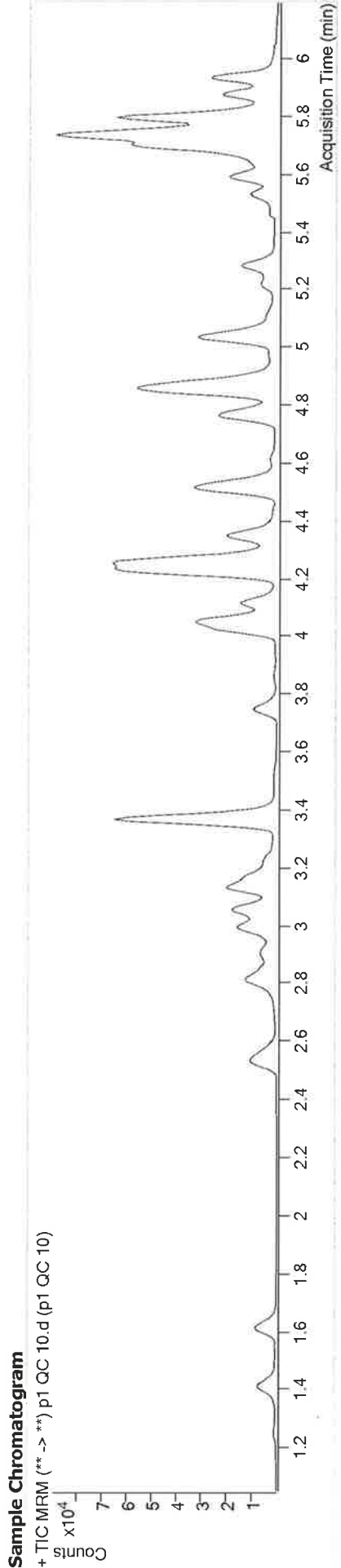
TS R



AM #28 Multi-Drug Quant. Results

Batch results
 Calibration Last Update: D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 3/29/2019 2:37:11 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 3/28/2019 4:03:58 PM
Sample Info. p1 QC 10.d
 p1 QC 10
 Sarah Pickle



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	1218	298.08	68.2	187.30	40077	0.9073 ng/ml
7-aminodiazepam	4.253	6162	∞	78.6	∞	25029	10.3117 ng/ml
a-hydroxylprazolam	5.682	5387	141.31	65.4	327.89	25556	10.1822 ng/ml
alpha-PVP	4.360	7614	4261.83	53.2	260.39	35314	9.4327 ng/ml
Alprazolam	5.759	11716	297.15	105.0	940.21	35117	10.5390 ng/ml
Amphetamine	3.069	9575	142.52	57.9	863.01	13831	9.6301 ng/ml
Benzoyllecgonine	3.876	619	105.70	8.2	31.17	1796	11.0909 ng/ml
Buprenorphine	5.762	170	10.84	17.7	41.45	5844	1.1379 ng/ml
Bupropion	4.782	13885	3524.34	59.3	743.89	44124	10.9255 ng/ml
Carisoprodol	5.714	15775	299.79	54.9	556.07	78303	9.8971 ng/ml
Citalopram	5.222	1798	104.80	43.3	1365.29	7543	10.6374 ng/ml
Clonazepam	5.602	8616	191.32	34.3	∞	13581	10.9106 ng/ml
Cocaine	4.259	9914	534.27	45.3	3112.39	97806	10.2035 ng/ml
Codeine	2.590	1870	3164.15	100.0	1983.07	8531	10.1042 ng/ml
Cyclobenzaprine	5.618	1210	511.90	10.9	5.22	4259	10.9827 ng/ml
Dextromethorphan	5.265	846	23.34	83.3	288.30	3990	9.7882 ng/ml
Dextropropofol	4.122	2199	750.49	204.3	1750.23	23986	10.8536 ng/ml
Diazepam	5.945	8048	890.98	86.0	274.81	34763	10.1853 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	4655	6377.04	65.4	3647.37	24230	10.3311 ng/ml
Diphenhydramine	5.292	4897	1653.06	34.8	61.59	24250	10.6473 ng/ml
Doxylamine	4.529	16441	114.34	94.2	1411.57	73023	10.1758 ng/ml
EDDP	5.257	278	15.60	48.1	90.80	1316	11.3731 ng/ml
Fentanyl	5.086	101	16.26	73.6	160.94	4657	1.0331 ng/ml
Fluoxetine	5.704	1423	222.90	9.6	67.04	4245	12.6003 ng/ml
Hydrocodone	3.032	4695	∞	37.1	40.93	25938	10.7437 ng/ml
Hydromorphone	1.628	4669	183.30	78.2	∞	17746	9.1488 ng/ml
Ketamine	4.042	9896	1259.43	37.1	166.91	46951	9.5300 ng/ml
Lamotrigine	4.290	1281	541.13	77.1	1496.36	46951	9.0150 ng/ml
Lorazepam	5.737	18753	695.48	59.2	60.87	13581	9.4690 ng/ml
Meprobamate	4.906	8724	∞	29.2	773.31	38257	10.0015 ng/ml
Methadone	5.650	2306	157.90	58.0	108.90	10419	10.6797 ng/ml
Methamphetamine	3.237	5230	49.62	39.9	98.99	22492	9.3711 ng/ml
Metoprolol	4.322	2017	5148.50	94.9	982.87	107205	8.2314 ng/ml
Mirtazapine	4.617	3027	1068.44	48.3	1088.46	35314	1.9235 ng/ml
Mitragynine	5.214	267	187.57	40.0	∞	10419	6.3546 ng/ml
Morphine	1.260	1210	6725.16	22.5	1460.66	1401	9.7690 ng/ml
Nordiazepam	5.884	7688	480.54	58.6	∞	24949	9.4559 ng/ml
Norfentanyl	4.084	1333	359.02	39.4	106.66	58670	0.9487 ng/ml
Norhydrocodone	3.080	859	104.78	45.4	∞	25646	8.1228 ng/ml
Noroxycodone	2.928	3404	53.08	52.8	54.08	12616	9.6091 ng/ml
O-desmethyl-tramadol	3.379	29913	4240.76	6.4	311.12	131823	9.9343 ng/ml
Oxazepam	5.740	22508	∞	70.3	80.98	84656	9.8484 ng/ml
Oxycodone	2.847	8830	123.69	32.4	68.28	37078	10.0262 ng/ml
Oxymorphone	1.417	5015	164.02	46.6	113.69	17899	9.7225 ng/ml
Phentermine	3.787	2408	97.20	4.3	11.89	23941	9.7394 ng/ml
Promethazine	5.535	2341	630.85	27.5	43.96	7720	11.6685 ng/ml
Quetiapine	5.538	3165	1358.14	54.7	2579.37	3825	11.3592 ng/ml
Sertraline	5.773	860	73.88	81.9	102.08	2383	13.8150 ng/ml
Temazepam	5.808	22065	317.70	28.5	274.03	98562	9.7047 ng/ml
Tramadol	4.242	22099	1255.78	3.3	76.89	107205	10.0213 ng/ml
Trazodone	5.113	2401	2396.21	72.8	1188.00	8353	11.3586 ng/ml
Venlafaxine	5.040	11413	1793.64	37.7	259.78	54792	10.5003 ng/ml
Zolpidem	4.876	22931	17127.21	32.0	∞	108774	9.8531 ng/ml

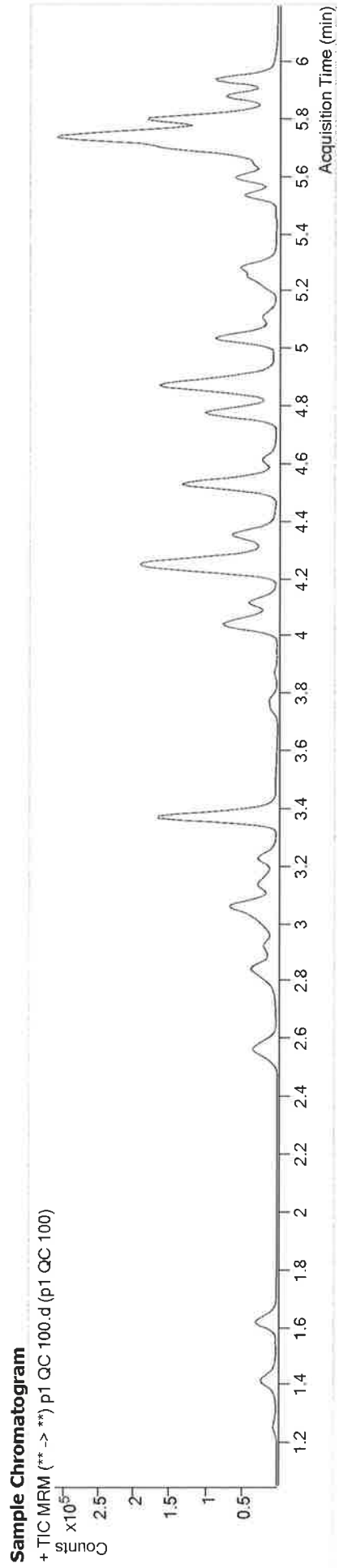
TS 8



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 QC 100.d
Type QC **Sample** p1 QC 100
Acq. Method MDQ P1 Combined 011619.m **Operator** Sarah Pickle
Sample Position P1-G11
Injection Volume 1
Acq. Date-Time 3/28/2019 4:24:56 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	11705	955.67	68.8	786.56	41148	8.2175 ng/ml
7-aminoclonazepam	4.253	54479	10382.70	80.1	16720.82	23384	100.0242 ng/ml
a-hydroxylprazolam	5.682	48648	822.39	66.4	1226.60	24521	95.1110 ng/ml
alpha-PVP	4.360	76946	38919.32	51.5	10980.38	35475	90.7020 ng/ml
Alprazolam	5.759	114049	1791.42	103.0	5177.81	34183	87.0133 ng/ml
Amphetamine	3.069	85845	∞	56.6	3370.80	13209	89.3601 ng/ml
Benzoyllecgonine	3.876	4672	3107.95	7.9	114.49	1754	88.2038 ng/ml
Buprenorphine	5.762	1767	230.33	18.5	142.72	8003	8.9165 ng/ml
Bupropion	4.782	149085	49950.65	58.6	13862.03	49955	94.1013 ng/ml
Carisoprodol	5.714	138624	717.87	57.2	∞	72573	93.5962 ng/ml
Citalopram	5.222	21254	1817.11	39.8	5500.79	9121	87.6446 ng/ml
Clonazepam	5.595	76697	∞	34.7	50200.82	12266	108.8183 ng/ml
Cocaine	4.259	95114	38802.03	43.5	32023.06	93619	88.5241 ng/ml
Codeine	2.590	17421	4551.65	102.1	11256.54	8062	91.2201 ng/ml
Cyclobenzaprine	5.618	14874	431.28	10.9	286.58	6289	87.2850 ng/ml
Dextromethorphan	5.265	10112	537.83	80.9	∞	5183	86.0560 ng/ml
Dextroproprian	4.122	22011	21570.78	201.4	2365.29	24256	92.2655 ng/ml
Diazepam	5.945	79110	5480.82	87.1	10408.95	35180	95.4145 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	44852	∞	68.0	22565.37	24903	97.6039 ng/ml
Diphenhydramine	5.292	56283	371.68	34.2	481.47	28693	88.8100 ng/ml
Doxylamine	4.529	161215	325834.67	97.4	72930.05	74300	90.0908 ng/ml
EDDP	5.257	34648	1717.17	41.7	41842.82	19331	81.2720 ng/ml
Fentanyl	5.079	1223	99.35	72.0	306.00	6390	8.7446 ng/ml
Fluoxetine	5.704	17882	401.31	9.4	∞	6915	82.6766 ng/ml
Hydrocodone	3.025	42889	309.05	39.2	108.29	25793	97.1623 ng/ml
Hydromorphone	1.621	43741	563.73	75.2	∞	16515	90.1978 ng/ml
Ketamine	4.042	94941	30428.72	36.8	692.67	45726	93.2134 ng/ml
Lamotrigine	4.290	12187	4142.83	78.6	28388.81	45726	82.3737 ng/ml DNE
Lorazepam	5.737	130845	2442.33	60.3	408.52	12266	71.3836 ng/ml DNE
Meprobamate	4.906	75083	47370.91	27.2	4976.99	34526	95.7091 ng/ml
Methadone	5.650	28490	452.56	53.3	2247.47	13152	90.9856 ng/ml
Methamphetamine	3.231	48618	1356.49	41.1	1158.73	22091	89.2963 ng/ml
Metoprolol	4.322	19520	15050.46	93.9	∞	105239	90.4970 ng/ml
Mirtazapine	4.617	33308	∞	47.4	15661.30	35475	45.2851 ng/ml
Mitragynine	5.214	4076	8951.59	39.3	4795.94	13152	75.5975 ng/ml
Morphine	1.260	11080	54851.86	23.1	1116.78	1357	86.9339 ng/ml
Nalbuprophine	4.988	571	196.86	97.2	33.93	2425	8.9596 ng/ml DNE
Nordiazepam	5.884	74438	2970.77	58.9	2363.86	25144	86.4636 ng/ml
Norfentanyl	4.084	14517	∞	37.9	1169.52	63881	9.0168 ng/ml
Norhydrocodone	3.073	14203	410.84	42.1	453.25	27057	106.5076 ng/ml
Noroxycodone	2.928	32077	494.29	50.5	358.37	11992	95.3062 ng/ml
O-desmethyl-tramadol	3.379	286040	49771.43	6.6	1070.98	130849	91.5922 ng/ml
Oxazepam	5.740	176978	1684.53	69.6	∞	66848	99.0294 ng/ml
Oxycodone	2.847	81652	∞	33.3	683.87	37475	91.9905 ng/ml
Oxymorphone	1.417	44682	∞	46.0	300.02	16385	93.3874 ng/ml
Phentermine	3.781	23110	3245.27	4.0	68.69	23629	95.1552 ng/ml
Promethazine	5.535	28506	18402.35	28.1	416.87	11385	93.4207 ng/ml
Quetiapine	5.538	33897	19045.14	59.9	439.28	4381	100.6741 ng/ml
Sertraline	5.773	9445	227.86	93.3	∞	3908	89.0824 ng/ml
Temazepam	5.808	212682	16874.32	29.3	234.58	99314	90.5577 ng/ml
Tramadol	4.242	207562	30339.58	3.5	1457.46	105239	97.3173 ng/ml
Trazodone	5.113	25322	12928.14	77.8	24217.43	10416	91.2394 ng/ml
Venlafaxine	5.040	112164	5444.72	37.9	310.70	53345	90.9713 ng/ml
Zolpidem	4.876	234526	179461.87	31.5	13349.09	112840	96.0966 ng/ml

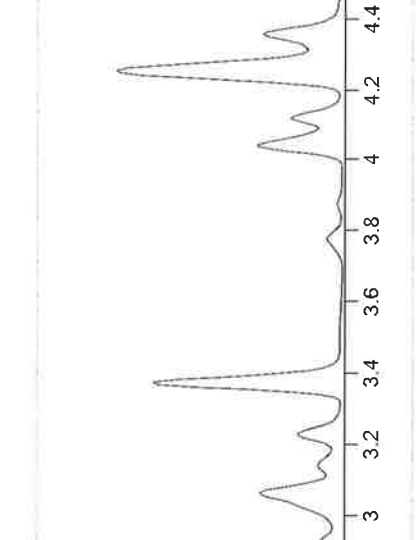


AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 3/29/2019 2:37:11 PM

Instrument Type FALCO-LCMS (Property ID 069901)
Acq. Method QC
Sample Position MDQ P1 Combined 011619.m
Injection Volume P1-F11
Acq. Date-Time 1
Sample Info. 3/28/2019 4:45:51 PM

Data File p1 QC 250.d
Sample p1 QC 250
Operator Sarah Pickle
Comment



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	3.144	29281	891.17	70.0	1319.22	41183	20.4912 ng/ml
7-aminoclonazepam	4.253	130496	∞	79.6	1962.02	23108	242.8605 ng/ml
a-hydroxyalprazolam	5.682	105023	864.67	63.2	2207.73	21849	230.3144 ng/ml
alpha-PVP	4.366	189162	30544.57	52.1	8213.92	35773	220.4560 ng/ml
Alprazolam	5.759	252770	20385.02	104.1	10171.30	31464	206.6382 ng/ml
Amphetamine	3.069	197759	57672.29	57.4	∞	13016	208.7554 ng/ml
Benzoyllecgonine	3.876	11354	696.33	8.1	345.37	1734	217.3719 ng/ml
Buprenorphine	5.769	6652	677.01	18.1	150.38	11604	23.2209 ng/ml
Bupropion	4.782	411307	97500.86	59.3	23865.19	56449	228.1302 ng/ml
Carisoprodol	5.714	293630	14934.51	56.0	1210.70	62912	228.6578 ng/ml
Citalopram	5.222	71687	1847.53	41.8	6140.33	12710	209.4785 ng/ml
Clonazepam	5.602	152375	30562.52	35.3	489253.29	10784	246.0828 ng/ml
Cocaine	4.266	223375	166288.74	43.8	89668.59	91111	211.4715 ng/ml
Codeine	2.590	39799	17737.14	99.2	33040.64	7320	228.0700 ng/ml
Cyclobenzaprine	5.618	58861	8147.04	10.5	1614.18	10027	215.8172 ng/ml
Dextromethorphan	5.265	39472	209.39	78.1	69713.00	8218	211.1335 ng/ml
Dextropropion	4.122	58125	90136.60	209.0	54691.46	26199	223.1166 ng/ml
Diazepam	5.945	179642	20034.27	85.4	3741.85	32513	233.8511 ng/ml

outside curve range



AM #28 Multi-Drug Quant. Results

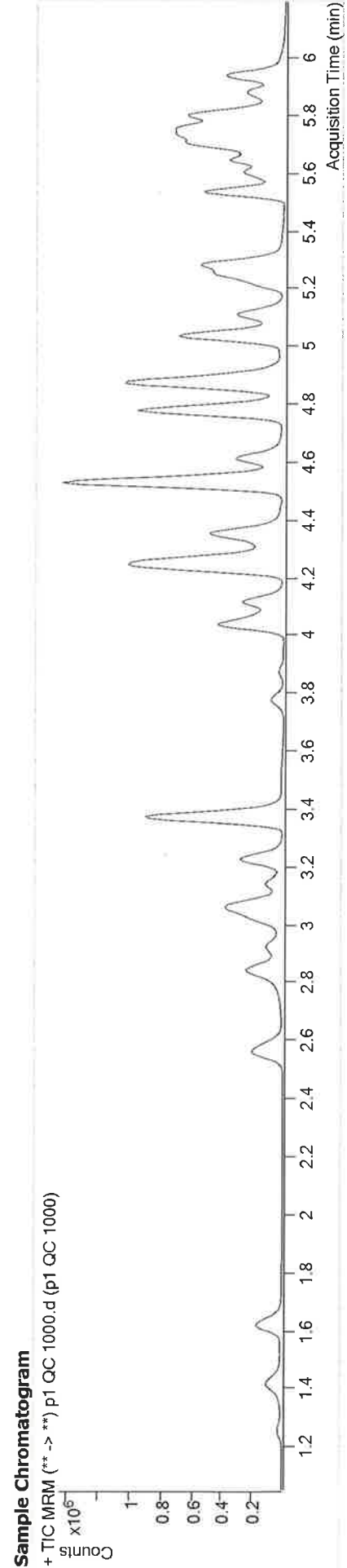
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	103826	79406.81	68.4	73541.91	24663	228.2587 ng/ml
Diphenhydramine	5.292	204368	23611.76	34.1	16621.14	42430	215.6289 ng/ml
Doxylamine	4.529	438797	165834.35	98.2	326461.75	82555	219.3548 ng/ml
EDDP	5.257	110709	31654.80	41.6	5970.18	24633	200.7254 ng/ml
Fentanyl	5.086	5305	688.53	80.2	4343.55	11343	21.3067 ng/ml
Fluoxetine	5.704	66867	508.83	9.7	6751.31	11180	188.3750 ng/ml
Hydrocodone	3.025	100504	∞	39.8	∞	25522	229.8544 ng/ml
Hydromorphone	1.621	100721	1460.16	75.0	287.11	15571	219.9793 ng/ml
Ketamine	4.042	231369	28118.93	36.1	5684.93	45803	226.6692 ng/ml
Lamotrigine	4.290	29992	12685.72	77.1	31001.69	45803	201.4330 ng/ml DNE
Lorazepam	5.730	193372	4039.68	57.7	397.49	10784	119.8145 ng/ml DNE
Meprobamate	4.906	150028	25257.42	27.9	1803.79	30420	217.1128 ng/ml
Methadone	5.650	109756	8458.32	52.6	1516.11	20872	218.6554 ng/ml
Methamphetamine	3.231	148645	12989.88	39.4	2630.76	26961	223.8036 ng/ml
Metoprolol	4.329	50559	9465.00	93.9	∞	103839	239.2825 ng/ml
Mirtazapine	4.617	117362	62467.44	47.9	33793.72	35773	164.3013 ng/ml
Mitragynine	5.214	15849	24090.24	37.2	7502.59	20872	185.0311 ng/ml
Morphine	1.260	25114	1168.89	23.2	9339.98	1302	204.3792 ng/ml
Naltrexone	4.988	2206	669.74	95.5	2785.31	3686	23.1704 ng/ml DNE
Nordiazepam	5.891	157975	20870.65	57.5	9558.24	21972	209.2590 ng/ml
Norfentanyl	4.084	39679	14323.87	36.4	∞	67640	23.1925 ng/ml
Norhydrocodone	3.080	47261	491.85	40.9	286.09	29079	326.7874 ng/ml outside curve range
Noroxycodone	2.921	71372	∞	50.3	280.90	11174	227.5758 ng/ml
O-desmethyl-tramadol	3.379	678525	36881.57	6.6	8677.07	126636	223.8075 ng/ml
Oxazepam	5.740	263359	4803.11	70.1	3500.74	45503	216.6206 ng/ml
Oxycodone	2.840	190587	∞	32.2	1397.57	35991	223.6198 ng/ml
Oxymorphone	1.417	95947	572.65	47.9	1156.32	14433	227.4517 ng/ml
Phentermine	3.787	62435	6366.06	4.0	589.33	26679	227.7591 ng/ml
Promethazine	5.535	112897	1915.93	28.3	5268.12	18915	222.1253 ng/ml
Quetiapine	5.538	104472	14691.12	58.7	26483.18	5522	245.1731 ng/ml
Sertraline	5.780	33446	758.24	90.9	599.95	5645	217.5334 ng/ml
Temazepam	5.808	458718	1978.13	29.3	723.85	86329	224.3003 ng/ml
Tramadol	4.242	494330	147023.56	3.6	580.90	103839	235.1320 ng/ml
Trazodone	5.113	88685	188245.73	78.1	297869.58	14604	226.9302 ng/ml
Venlafaxine	5.040	304900	2680.94	37.8	8922.78	61065	213.7595 ng/ml
Zolpidem	4.876	563670	126985.87	32.0	36260.58	115347	225.7846 ng/ml



AM #28 Multi-Drug Quant. Results

Batch results
Calibration Last Update 3/29/2019 2:37:11 PM
 D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin

Instrument FALCO-LCMS (Property ID 069901)
Type QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-E11
Injection Volume 1
Acq. Date-Time 3/28/2019 5:06:48 PM
Sample Info.
Data File p1 QC 1000.d
Sample p1 QC 1000
Operator Sarah Pickle
Comment



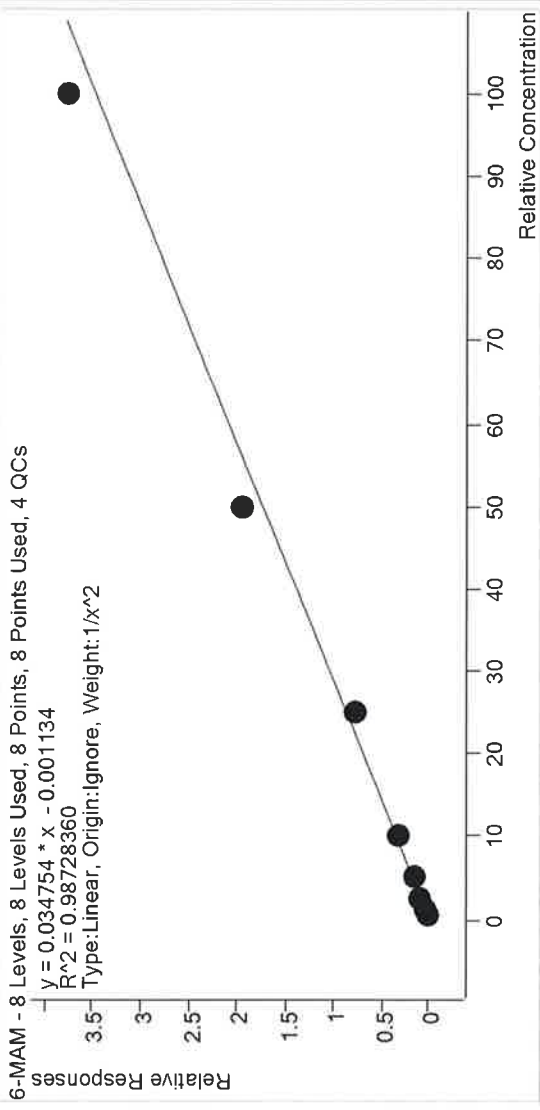
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	113942	4690.78	71.1	3407.19	40202	81.5852 ng/ml
7-aminoclonazepam	4.253	254881	∞	79.8	17794.53	16487	665.3557 ng/ml
a-hydroxyvalprozepam	5.682	226468	368.70	65.0	832.16	13843	783.6722 ng/ml
alpha-PVP	4.360	754032	157873.17	51.4	99611.29	34801	901.9048 ng/ml
Alprazolam	5.759	668316	∞	100.9	∞	17815	957.4416 ng/ml
Amphetamine	3.062	561350	12065.46	57.3	93899.17	11713	658.1823 ng/ml
Benzoyllecgonine	3.876	44470	11132.93	7.8	∞	1683	878.6480 ng/ml
Buprenorphine	5.769	23182	4033.11	17.0	948.11	10218	92.0430 ng/ml
Bupropion	4.782	1606003	724390.18	58.9	441057.01	55720	899.1006 ng/ml
Carisoprodol	5.714	651217	16817.68	57.1	15934.79	35897	888.6670 ng/ml
Citalopram	5.222	276346	83989.30	41.9	6185.91	12197	835.8684 ng/ml
Clonazepam	5.602	341883	37627.00	35.3	∞	7034	846.8686 ng/ml
Cocaine	4.259	773472	749079.37	44.3	201431.22	79478	834.9088 ng/ml
Codeine	2.590	116515	7569.47	99.0	∞	5799	840.2182 ng/ml
Cyclobenzaprine	5.618	236424	107372.68	10.3	211.12	10034	864.5699 ng/ml
Dextromethorphan	5.265	150298	62816.82	79.4	11969.43	7961	828.5250 ng/ml
Dextroproprian	4.122	200832	230641.46	206.3	∞	22805	880.5636 ng/ml
Diazepam	5.945	491372	12253.32	87.2	∞	23835	871.4335 ng/ml



TS P

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datator
Analyte 6-MAM Internal Standard 6-MAM-D6



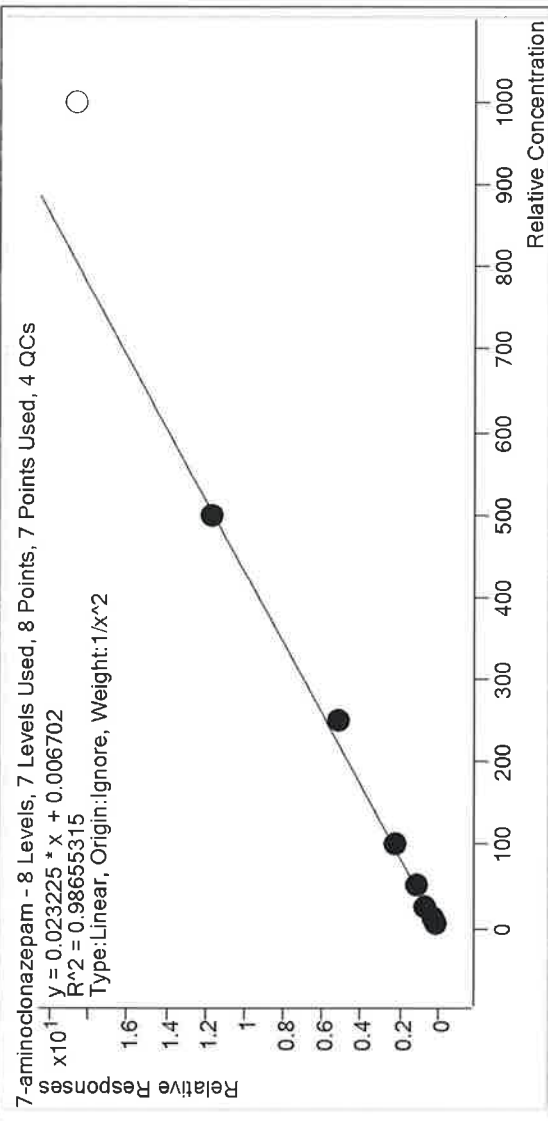
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.0
p1 Cal 2-10ng	2	✓	1.0	1.0	96.3
p1 Cal 3-25ng	3	✓	2.5	2.8	111.9
p1 Cal 4-50ng	4	✓	5.0	4.5	89.0
p1 Cal 5-100ng	5	✓	10.0	9.2	92.3
p1 Cal 6-250ng	6	✓	25.0	22.2	88.9
p1 Cal 7-500ng	7	✓	50.0	56.1	112.3
p1 Cal 8-1000ng	8	✓	100.0	108.3	108.3

TS P



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datator
Analyte 7-aminoclonazepam Internal Standard 7-Aminoclonazepam-D4



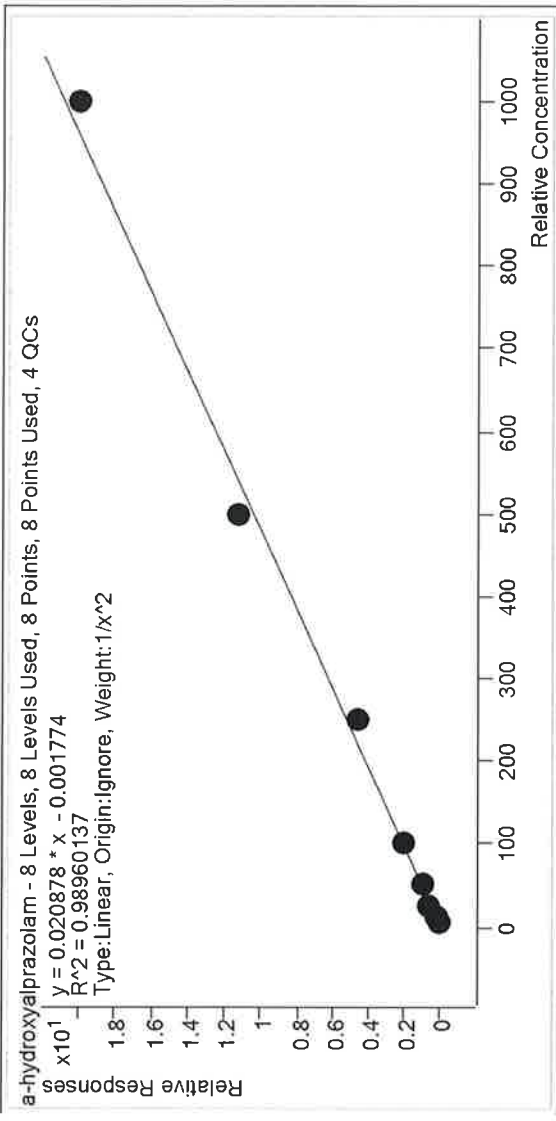
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.9
p1 Cal 2-10ng	2	✓	10.0	10.4	103.7
p1 Cal 3-25ng	3	✓	25.0	29.9	119.5
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	94.3	94.3
p1 Cal 6-250ng	6	✓	250.0	221.5	88.6
p1 Cal 7-500ng	7	✓	500.0	503.0	100.6
p1 Cal 8-1000ng	8	x	1000.0	805.6	80.6



TS R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SPIQuantResults\MDQ_P1_batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDastor
Analyte a-hydroxyalprazolam Internal Standard a-hydroxyalprazolam-D5



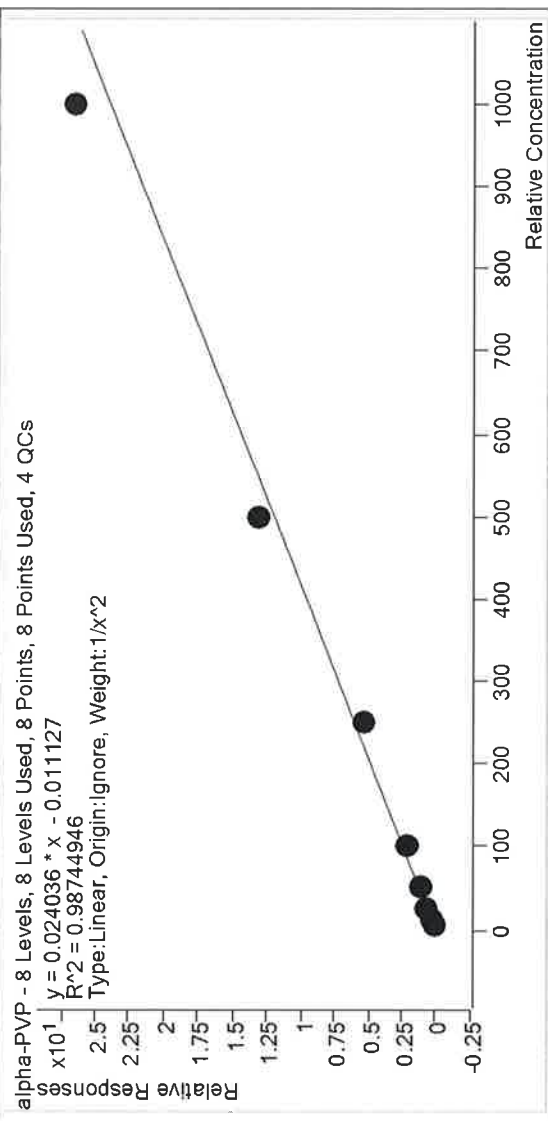
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2-10ng	2	✓	10.0	10.1	100.8
p1 Cal 3-25ng	3	✓	25.0	29.5	118.1
p1 Cal 4-50ng	4	✓	50.0	47.1	94.2
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	224.3	89.7
p1 Cal 7-500ng	7	✓	500.0	536.5	107.3
p1 Cal 8-1000ng	8	✓	1000.0	958.0	95.8



TS
R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datator
 Analyte alpha-PVP Internal Standard alpha-PVP-d8



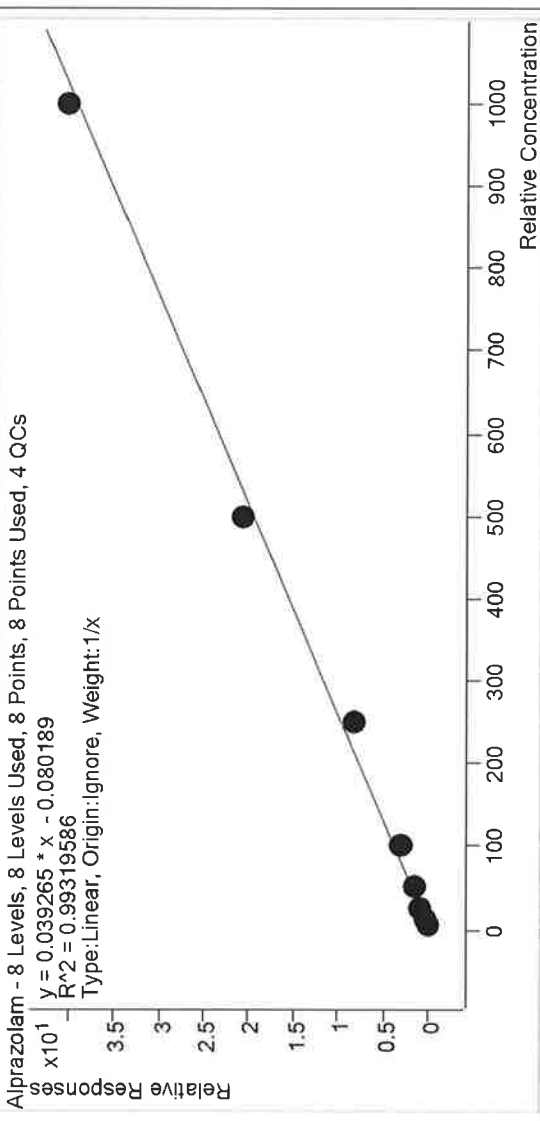
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2-10ng	2	✓	10.0	9.7	97.5
p1 Cal 3-25ng	3	✓	25.0	28.1	112.3
p1 Cal 4-50ng	4	✓	50.0	45.7	91.4
p1 Cal 5-100ng	5	✓	100.0	89.3	89.3
p1 Cal 6-250ng	6	✓	250.0	222.8	89.1
p1 Cal 7-500ng	7	✓	500.0	547.7	109.5
p1 Cal 8-1000ng	8	✓	1000.0	1106.6	110.7



TS
D

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datasfor
Analyte Alprazolam Internal Standard Alprazolam-D5



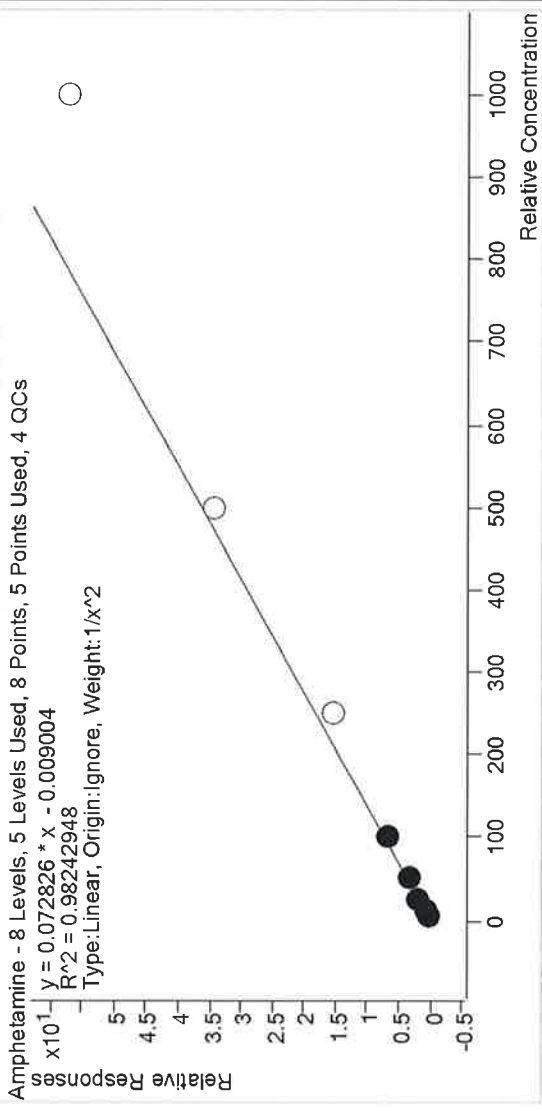
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.2	123.2
p1 Cal 2-10ng	2	✓	10.0	10.6	106.1
p1 Cal 3-25ng	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	43.0	85.9
p1 Cal 5-100ng	5	✓	100.0	85.7	85.7
p1 Cal 6-250ng	6	✓	250.0	211.2	84.5
p1 Cal 7-500ng	7	✓	500.0	532.6	106.5
p1 Cal 8-1000ng	8	✓	1000.0	1024.2	102.4



TS
R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1_batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPI\Datator
 Analyte Amphetamine Internal Standard Amphetamine-D11



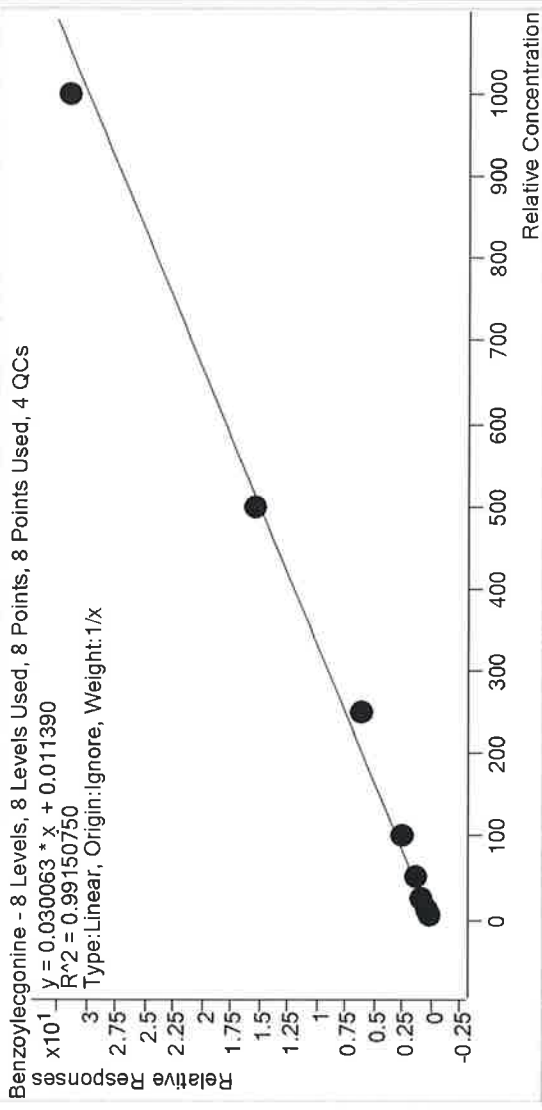
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2-10ng	2	✓	10.0	9.9	98.7
p1 Cal 3-25ng	3	✓	25.0	29.4	117.7
p1 Cal 4-50ng	4	✓	50.0	46.4	92.8
p1 Cal 5-100ng	5	✓	100.0	92.6	92.6
p1 Cal 6-250ng	6	x	250.0	210.3	84.1
p1 Cal 7-500ng	7	x	500.0	471.3	94.3
p1 Cal 8-1000ng	8	x	1000.0	785.3	78.5

TS
R



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPI\Datator
 Analyte Benzoyllecgonine Internal Standard Benzoyllecgonine-d8



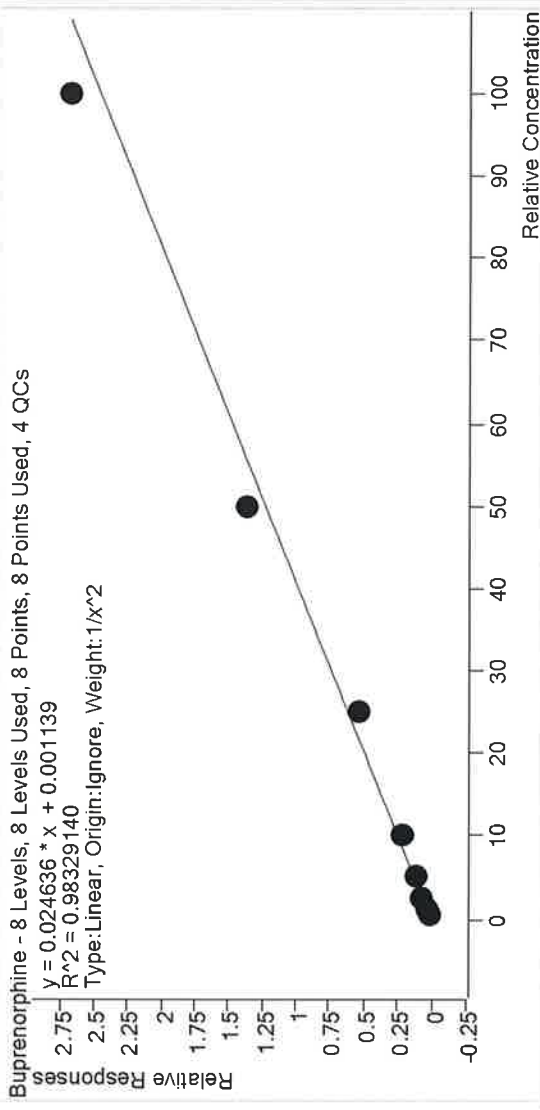
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	112.7
p1 Cal 2-10ng	2	✓	10.0	11.7	116.9
p1 Cal 3-25ng	3	✓	25.0	28.0	112.2
p1 Cal 4-50ng	4	✓	50.0	42.5	85.0
p1 Cal 5-100ng	5	✓	100.0	83.5	83.5
p1 Cal 6-250ng	6	✓	250.0	206.1	82.5
p1 Cal 7-500ng	7	✓	500.0	511.6	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1050.9	105.1



TS
R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPIDastor
 Analyte Buprenorphine Internal Standard Buprenorphine-D4



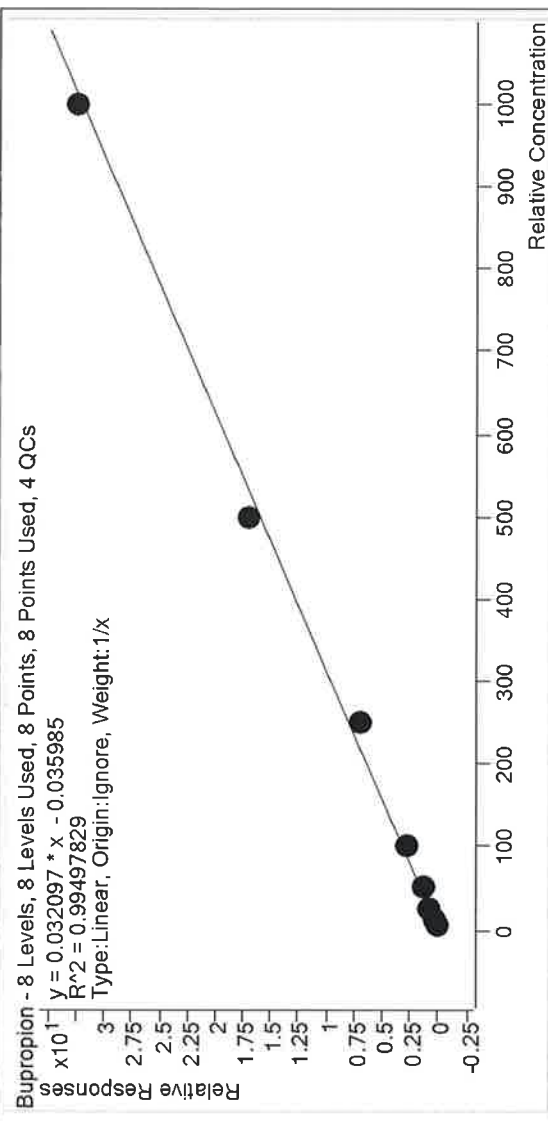
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.6
p1 Cal 2-10ng	2	✓	1.0	1.0	95.3
p1 Cal 3-25ng	3	✓	2.5	2.9	117.0
p1 Cal 4-50ng	4	✓	5.0	4.5	89.8
p1 Cal 5-100ng	5	✓	10.0	8.9	88.9
p1 Cal 6-250ng	6	✓	25.0	22.0	88.0
p1 Cal 7-500ng	7	✓	50.0	55.8	111.6
p1 Cal 8-1000ng	8	✓	100.0	108.8	108.8



TS
R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ_SPI\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPN\Datator
 Analyte Bupropion Internal Standard Bupropion-D9



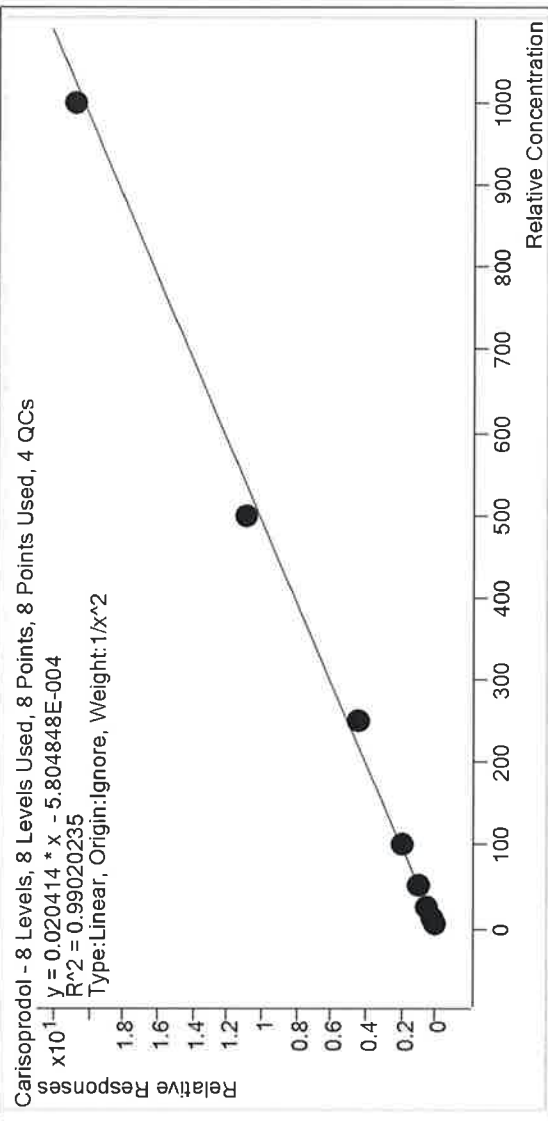
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	112.3
p1 Cal 2-10ng	2	✓	10.0	10.4	103.5
p1 Cal 3-25ng	3	✓	25.0	27.8	111.2
p1 Cal 4-50ng	4	✓	50.0	44.2	88.5
p1 Cal 5-100ng	5	✓	100.0	90.1	90.1
p1 Cal 6-250ng	6	✓	250.0	216.3	86.5
p1 Cal 7-500ng	7	✓	500.0	533.1	106.6
p1 Cal 8-1000ng	8	✓	1000.0	1012.5	101.3



TS R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1_batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISP\Datator
Analyte Carisoprodo
Internal Standard Carisoprodo-D7



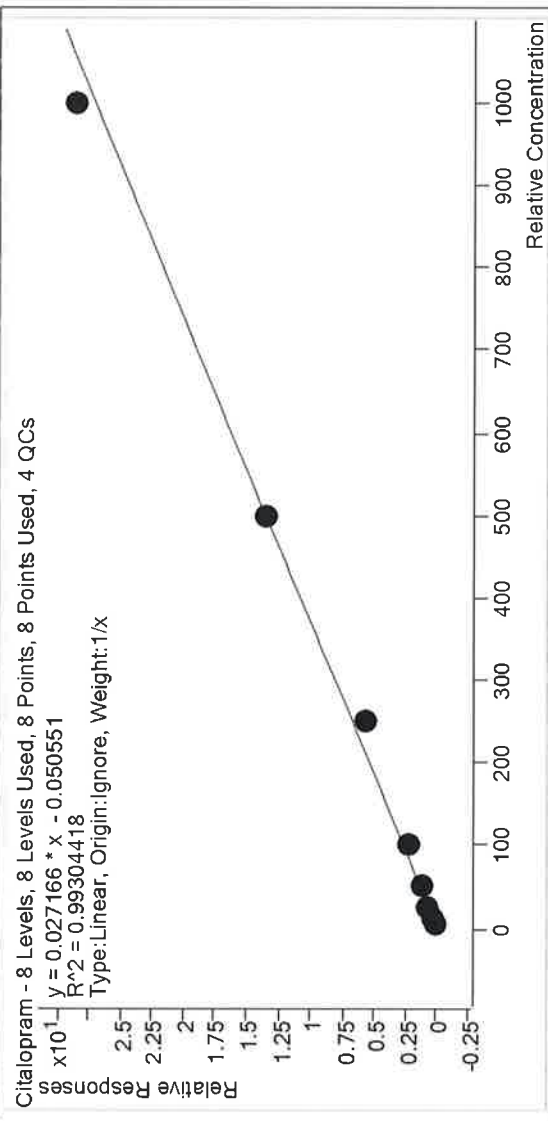
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	28.9	115.4
p1 Cal 4-50ng	4	✓	50.0	46.6	93.2
p1 Cal 5-100ng	5	✓	100.0	93.8	93.8
p1 Cal 6-250ng	6	✓	250.0	222.3	88.9
p1 Cal 7-500ng	7	✓	500.0	540.5	108.1
p1 Cal 8-1000ng	8	✓	1000.0	1022.1	102.2



15
R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SPI\QuantResults\MDQ P1_batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datasfor
 Analyte Citalopram Internal Standard Citalopram-D6



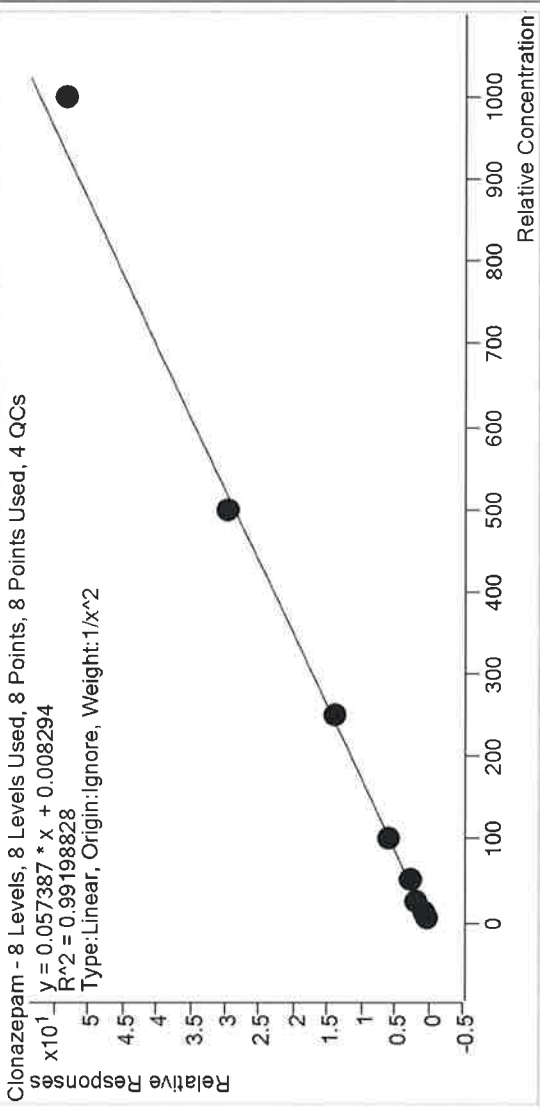
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.3	125.2
p1 Cal 2-10ng	2	✓	10.0	10.6	105.9
p1 Cal 3-25ng	3	✓	25.0	26.7	106.8
p1 Cal 4-50ng	4	✓	50.0	42.9	85.8
p1 Cal 5-100ng	5	✓	100.0	85.8	85.8
p1 Cal 6-250ng	6	✓	250.0	211.5	84.6
p1 Cal 7-500ng	7	✓	500.0	501.6	100.3
p1 Cal 8-1000ng	8	✓	1000.0	1054.6	105.5



TS
8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1_batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datator
Analyte Clonazepam Internal Standard Clonazepam-D4



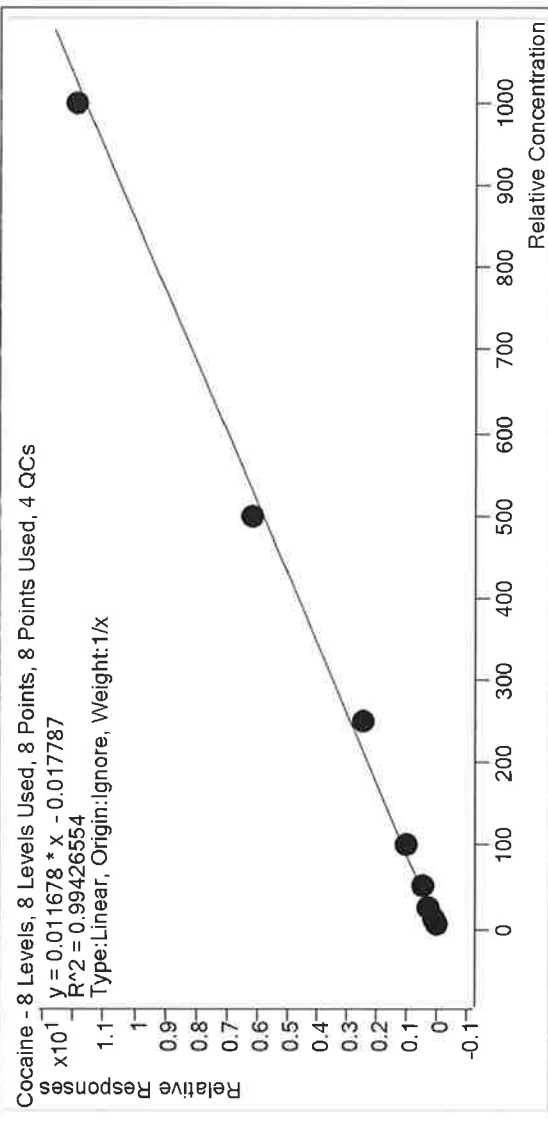
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2-10ng	2	✓	10.0	9.3	92.8
p1 Cal 3-25ng	3	✓	25.0	29.1	116.6
p1 Cal 4-50ng	4	✓	50.0	47.4	94.9
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	243.1	97.2
p1 Cal 7-500ng	7	✓	500.0	516.4	103.3
p1 Cal 8-1000ng	8	✓	1000.0	928.9	92.9

TS
R



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datator
Analyte Cocaine Internal Standard Cocaine-d3



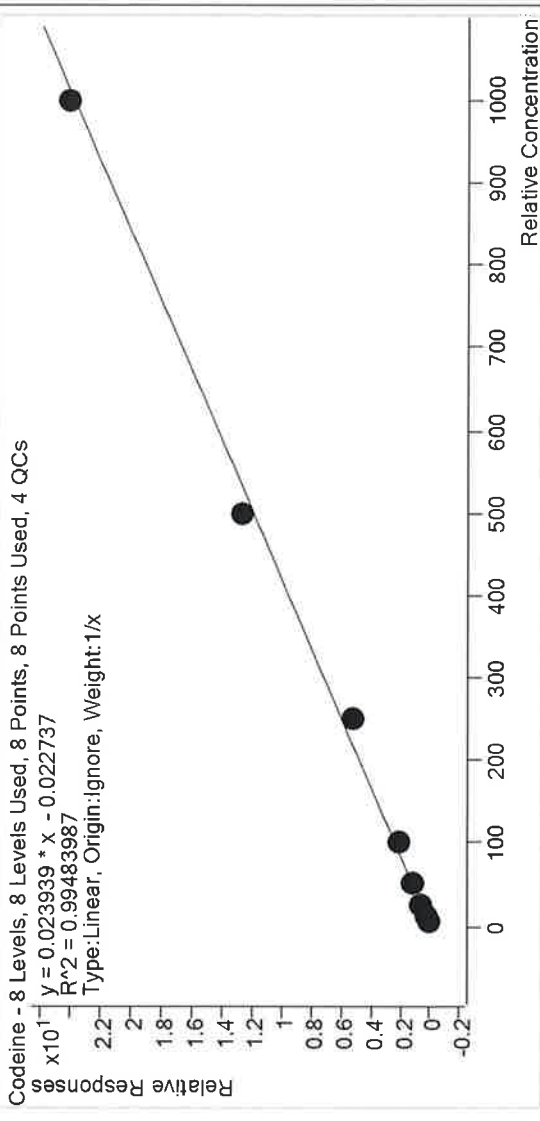
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.0	120.0
p1 Cal 2-10ng	2	✓	10.0	10.0	100.2
p1 Cal 3-25ng	3	✓	25.0	27.2	108.8
p1 Cal 4-50ng	4	✓	50.0	45.3	90.5
p1 Cal 5-100ng	5	✓	100.0	87.5	87.5
p1 Cal 6-250ng	6	✓	250.0	212.4	85.0
p1 Cal 7-500ng	7	✓	500.0	528.4	105.7
p1 Cal 8-1000ng	8	✓	1000.0	1023.3	102.3



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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ_SPI\QuantResults\MDQ P1_batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datator
Analyte Codeine Internal Standard Codeine-D6



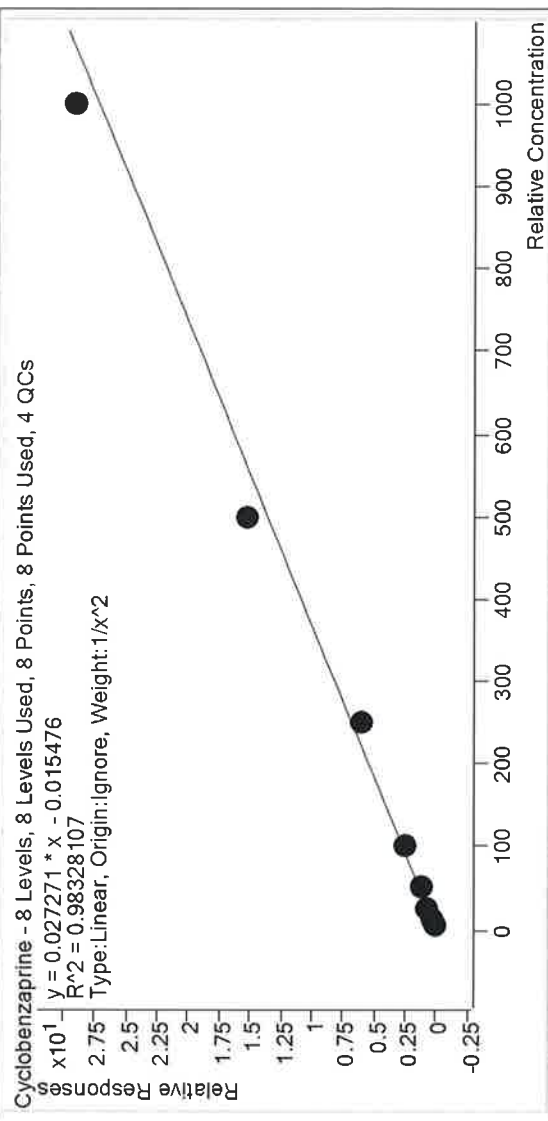
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.5
p1 Cal 2-10ng	2	✓	10.0	10.2	102.2
p1 Cal 3-25ng	3	✓	25.0	28.1	112.3
p1 Cal 4-50ng	4	✓	50.0	46.8	93.6
p1 Cal 5-100ng	5	✓	100.0	88.4	88.4
p1 Cal 6-250ng	6	✓	250.0	215.2	86.1
p1 Cal 7-500ng	7	✓	500.0	533.2	106.6
p1 Cal 8-1000ng	8	✓	1000.0	1012.6	101.3



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P

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datasfor
 Analyte Cyclobenzaprine Internal Standard Cyclobenzaprine-D3



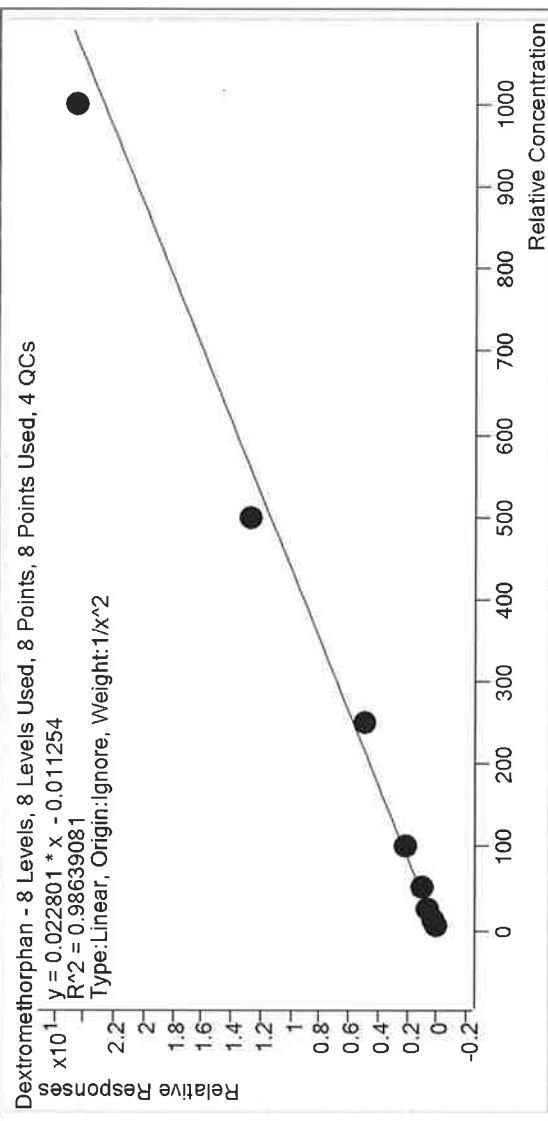
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2-10ng	2	✓	10.0	9.9	99.2
p1 Cal 3-25ng	3	✓	25.0	29.3	117.4
p1 Cal 4-50ng	4	✓	50.0	44.0	87.9
p1 Cal 5-100ng	5	✓	100.0	90.3	90.3
p1 Cal 6-250ng	6	✓	250.0	218.7	87.5
p1 Cal 7-500ng	7	✓	500.0	561.4	112.3
p1 Cal 8-1000ng	8	✓	1000.0	1067.2	106.7



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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datasfor
 Analyte Dextromethorphan Internal Standard Dextromethorphan-D3



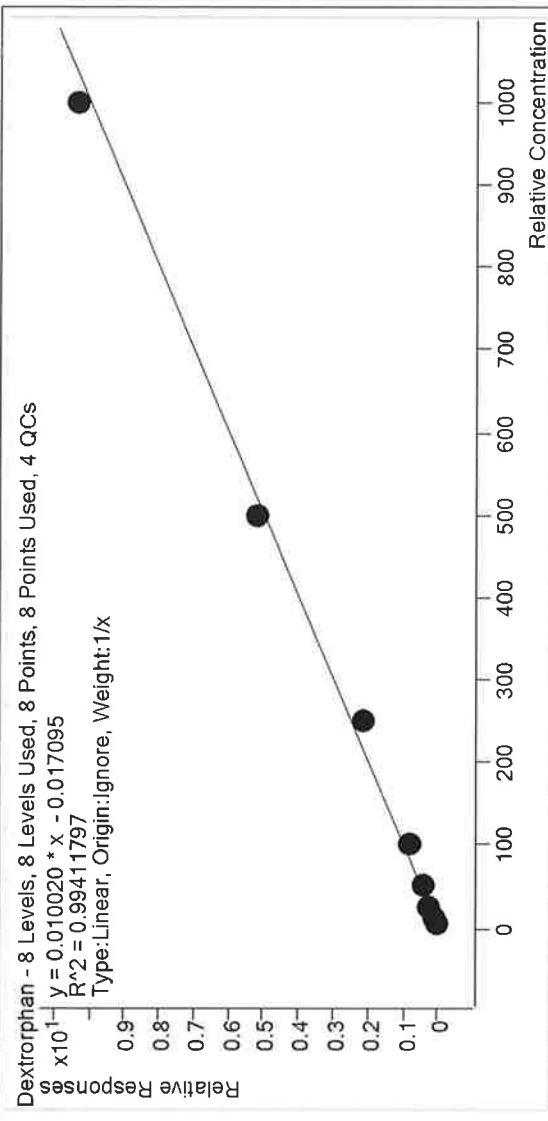
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.0
p1 Cal 2-10ng	2	✓	10.0	10.0	99.5
p1 Cal 3-25ng	3	✓	25.0	28.5	114.0
p1 Cal 4-50ng	4	✓	50.0	44.8	89.5
p1 Cal 5-100ng	5	✓	100.0	91.1	91.1
p1 Cal 6-250ng	6	✓	250.0	219.3	87.7
p1 Cal 7-500ng	7	✓	500.0	556.7	111.3
p1 Cal 8-1000ng	8	✓	1000.0	1078.5	107.9



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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SPI\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datator
Analyte Dextroprphan Internal Standard Dextroprphan-D3



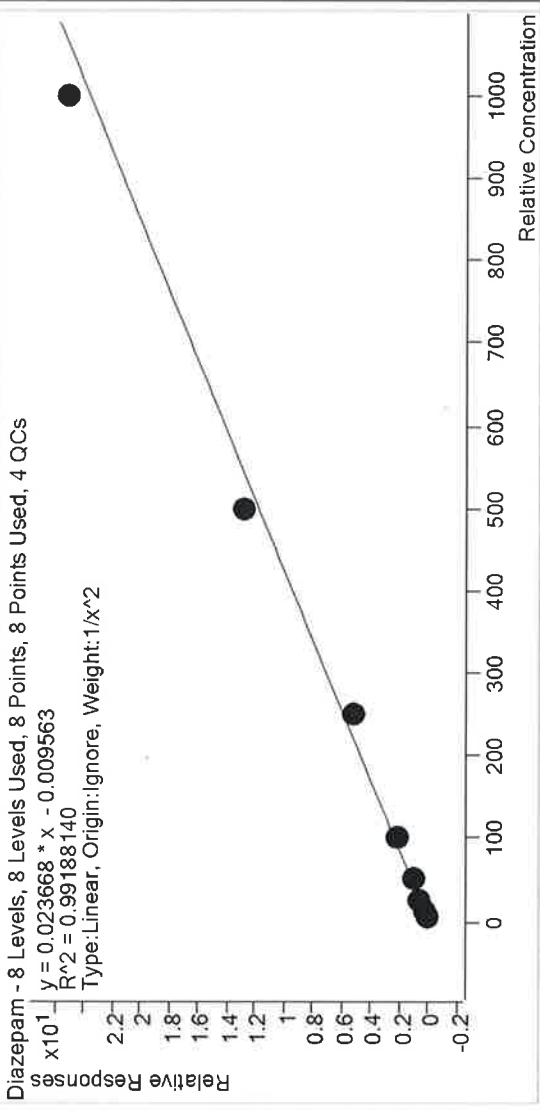
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.0	119.2
p1 Cal 2-10ng	2	✓	10.0	10.6	106.4
p1 Cal 3-25ng	3	✓	25.0	27.0	107.9
p1 Cal 4-50ng	4	✓	50.0	44.4	88.9
p1 Cal 5-100ng	5	✓	100.0	84.9	84.9
p1 Cal 6-250ng	6	✓	250.0	213.6	85.4
p1 Cal 7-500ng	7	✓	500.0	519.6	103.9
p1 Cal 8-1000ng	8	✓	1000.0	1033.8	103.4



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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDatastor
Analyte Diazepam Internal Standard Diazepam-D5



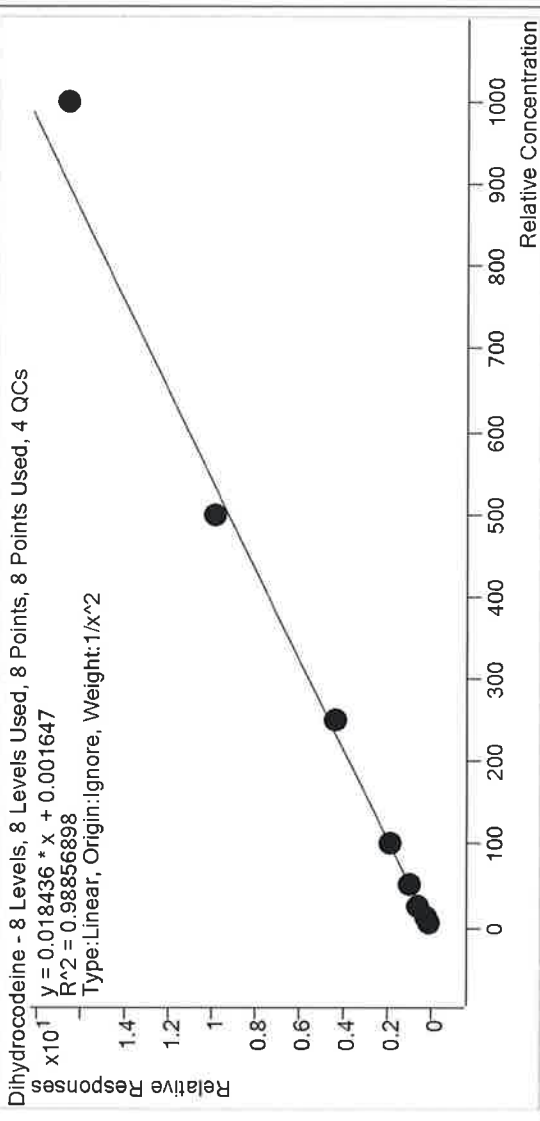
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2-10ng	2	✓	10.0	10.0	100.2
p1 Cal 3-25ng	3	✓	25.0	27.6	110.6
p1 Cal 4-50ng	4	✓	50.0	46.8	93.7
p1 Cal 5-100ng	5	✓	100.0	93.3	93.3
p1 Cal 6-250ng	6	✓	250.0	222.1	88.8
p1 Cal 7-500ng	7	✓	500.0	541.6	108.3
p1 Cal 8-1000ng	8	✓	1000.0	1063.1	106.3



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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SPIQuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDastor
Analyte Dihydrocodeine Internal Standard Dihydrocodeine-D6



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	10.1	101.5
p1 Cal 3-25ng	3	✓	25.0	29.8	119.2
p1 Cal 4-50ng	4	✓	50.0	48.4	96.7
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	232.6	93.0
p1 Cal 7-500ng	7	✓	500.0	534.5	106.9
p1 Cal 8-1000ng	8	✓	1000.0	897.6	89.8

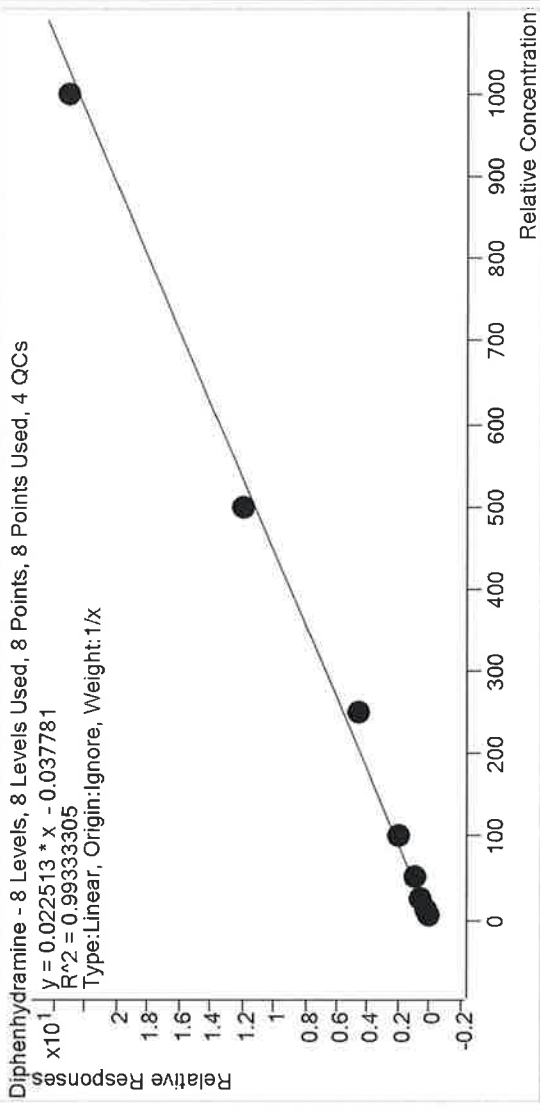


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D

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPI\Dateator
 Analyte Diphenhydramine Internal Standard Diphenhydramine-D3

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



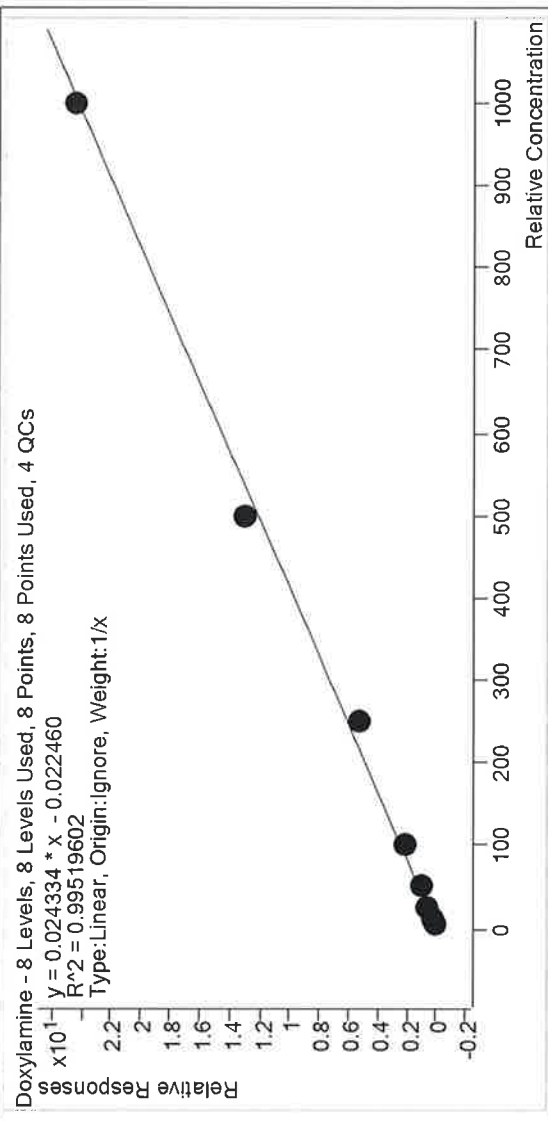
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	118.4
p1 Cal 2-10ng	2	✓	10.0	10.5	105.0
p1 Cal 3-25ng	3	✓	25.0	27.6	110.5
p1 Cal 4-50ng	4	✓	50.0	43.0	86.1
p1 Cal 5-100ng	5	✓	100.0	87.6	87.6
p1 Cal 6-250ng	6	✓	250.0	209.6	83.9
p1 Cal 7-500ng	7	✓	500.0	529.1	105.8
p1 Cal 8-1000ng	8	✓	1000.0	1026.5	102.7



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8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPN\Datator
Analyte Doxylamine Internal Standard Doxylamine-D5



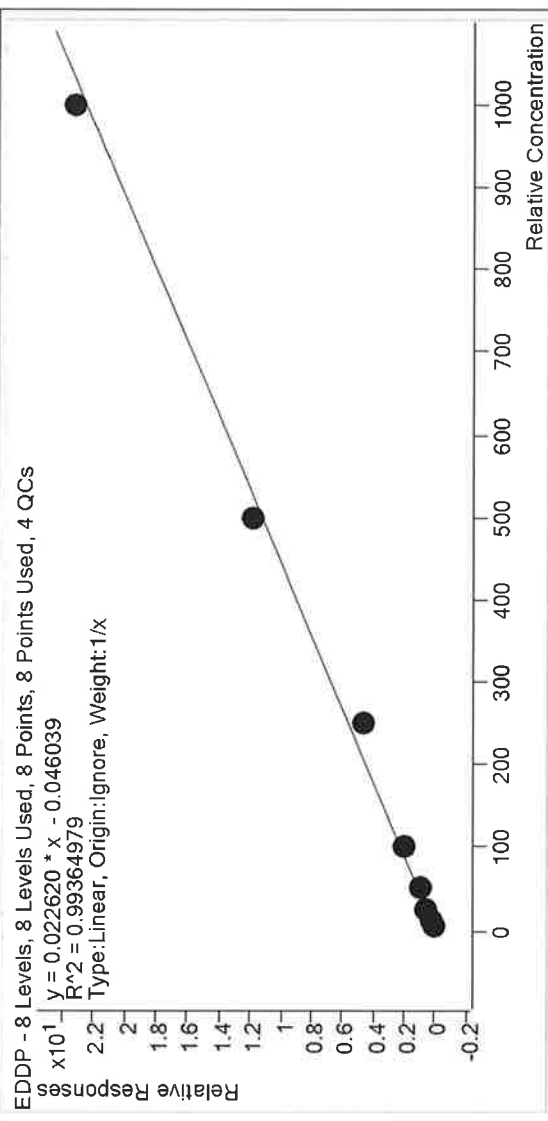
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.7
p1 Cal 2-10ng	2	✓	10.0	10.3	103.1
p1 Cal 3-25ng	3	✓	25.0	28.2	113.0
p1 Cal 4-50ng	4	✓	50.0	45.6	91.2
p1 Cal 5-100ng	5	✓	100.0	89.9	89.9
p1 Cal 6-250ng	6	✓	250.0	218.2	87.3
p1 Cal 7-500ng	7	✓	500.0	536.1	107.2
p1 Cal 8-1000ng	8	✓	1000.0	1006.3	100.6



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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPIDatastor
 Analyte EDDP Internal Standard EDDP-D3



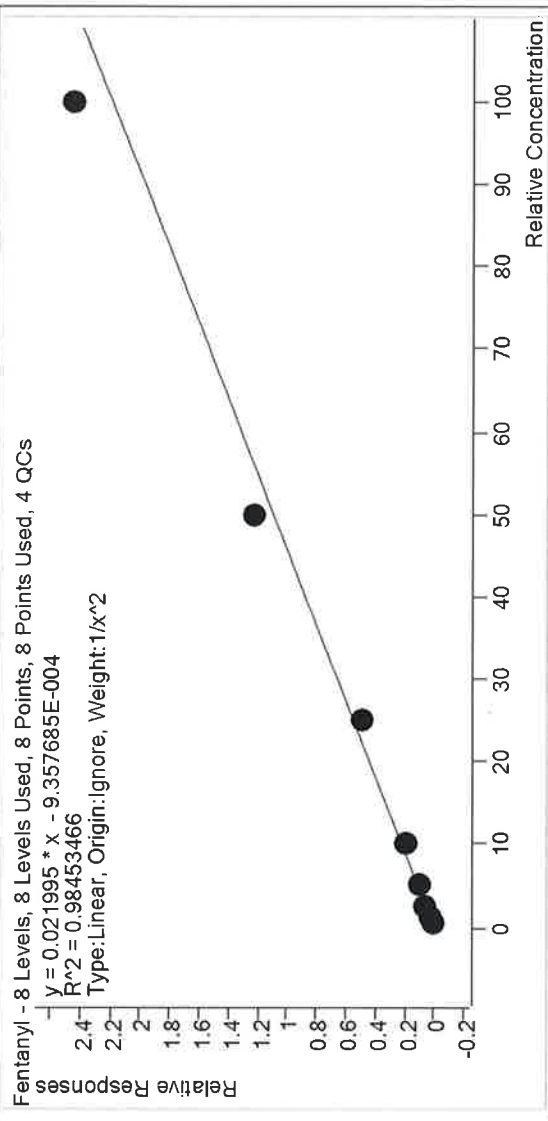
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	112.6
p1 Cal 2-10ng	2	✓	10.0	11.7	117.4
p1 Cal 3-25ng	3	✓	25.0	26.2	104.7
p1 Cal 4-50ng	4	✓	50.0	42.4	84.9
p1 Cal 5-100ng	5	✓	100.0	88.3	88.3
p1 Cal 6-250ng	6	✓	250.0	210.5	84.2
p1 Cal 7-500ng	7	✓	500.0	524.1	104.8
p1 Cal 8-1000ng	8	✓	1000.0	1031.0	103.1

TS
8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ_SPI\QuantResults\MDQ_P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datasfor
 Analyte Fentanyl Internal Standard Fentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	98.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	102.7
p1 Cal 3 -25ng	3	✓	2.5	2.8	111.1
p1 Cal 4-50ng	4	✓	5.0	4.3	87.0
p1 Cal 5-100ng	5	✓	10.0	8.8	88.5
p1 Cal 6-250ng	6	✓	25.0	22.3	89.0
p1 Cal 7-500ng	7	✓	50.0	55.9	111.9
p1 Cal 8-1000ng	8	✓	100.0	111.5	111.5

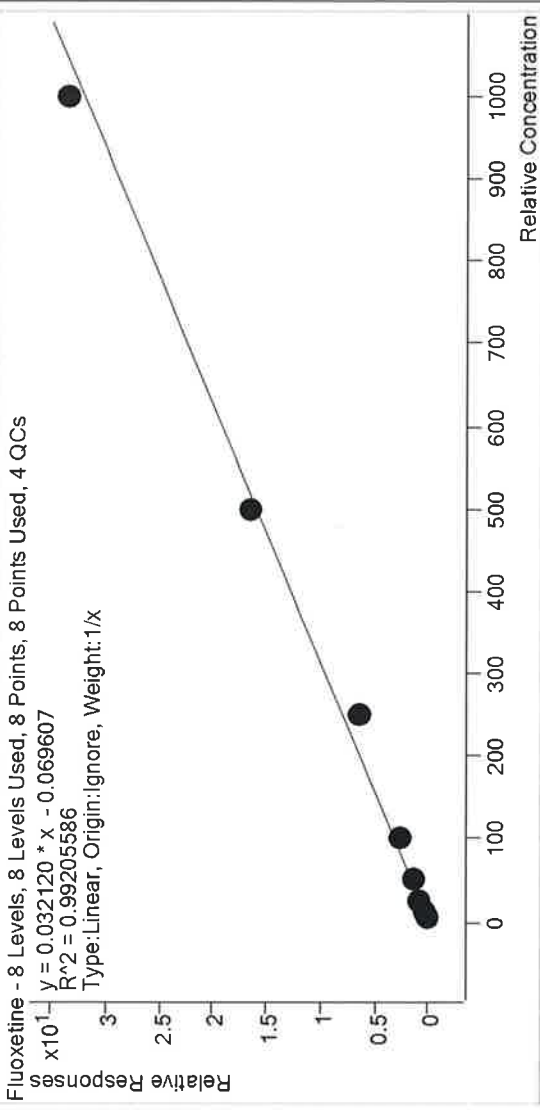


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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDastator
Analyte Fluoxetine Internal Standard Fluoxetine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.1	121.1
p1 Cal 2-10ng	2	✓	10.0	10.9	109.1
p1 Cal 3-25ng	3	✓	25.0	26.9	107.6
p1 Cal 4-50ng	4	✓	50.0	43.4	86.8
p1 Cal 5-100ng	5	✓	100.0	85.3	85.3
p1 Cal 6-250ng	6	✓	250.0	205.0	82.0
p1 Cal 7-500ng	7	✓	500.0	519.2	103.8
p1 Cal 8-1000ng	8	✓	1000.0	1043.3	104.3



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AM #28 Multi-Drug Quant. Calibration Curve Report

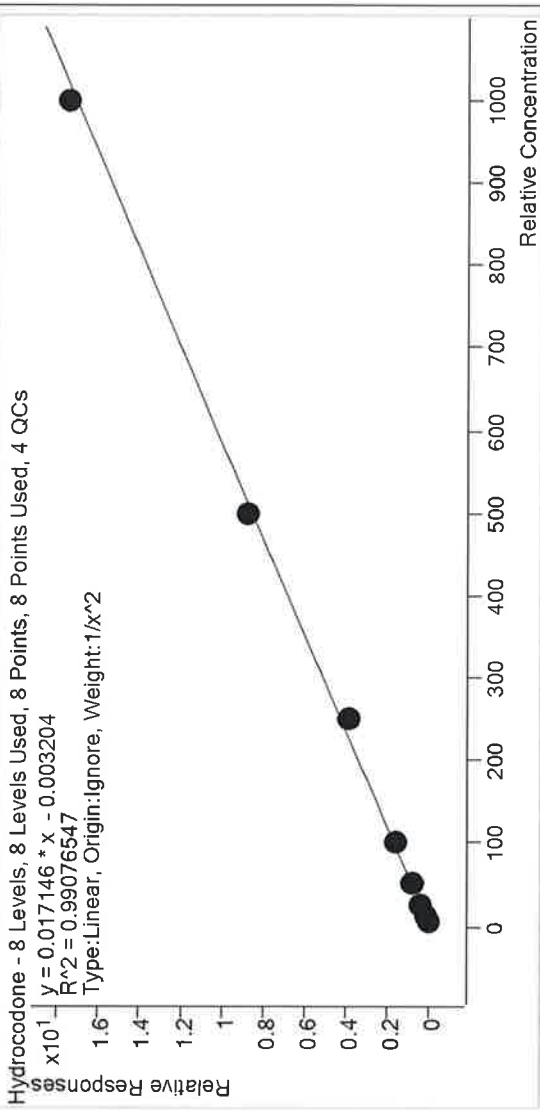
Batch results D:\Mass Hunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin

Last Cal. Update 3/29/2019 12:48 PM

Analyst Name ISPDastator

Analyte Hydrocodone

Internal Standard Hydrocodone-D6



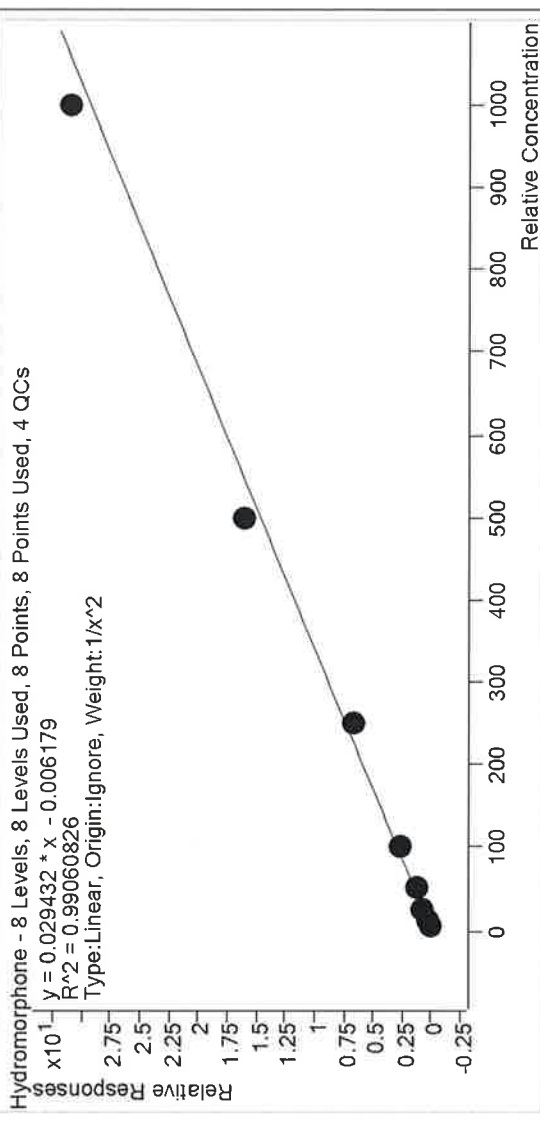
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2-10ng	2	✓	10.0	10.3	102.8
p1 Cal 3-25ng	3	✓	25.0	29.3	117.3
p1 Cal 4-50ng	4	✓	50.0	47.2	94.4
p1 Cal 5-100ng	5	✓	100.0	93.9	93.9
p1 Cal 6-250ng	6	✓	250.0	226.6	90.6
p1 Cal 7-500ng	7	✓	500.0	514.2	102.8
p1 Cal 8-1000ng	8	✓	1000.0	1019.1	101.9



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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPIDastator
 Analyte Hydromorphone Internal Standard Hydromorphone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2-10ng	2	✓	10.0	10.1	100.9
p1 Cal 3-25ng	3	✓	25.0	27.8	111.3
p1 Cal 4-50ng	4	✓	50.0	45.7	91.5
p1 Cal 5-100ng	5	✓	100.0	92.8	92.8
p1 Cal 6-250ng	6	✓	250.0	223.4	89.4
p1 Cal 7-500ng	7	✓	500.0	550.0	110.0
p1 Cal 8-1000ng	8	✓	1000.0	1056.6	105.7

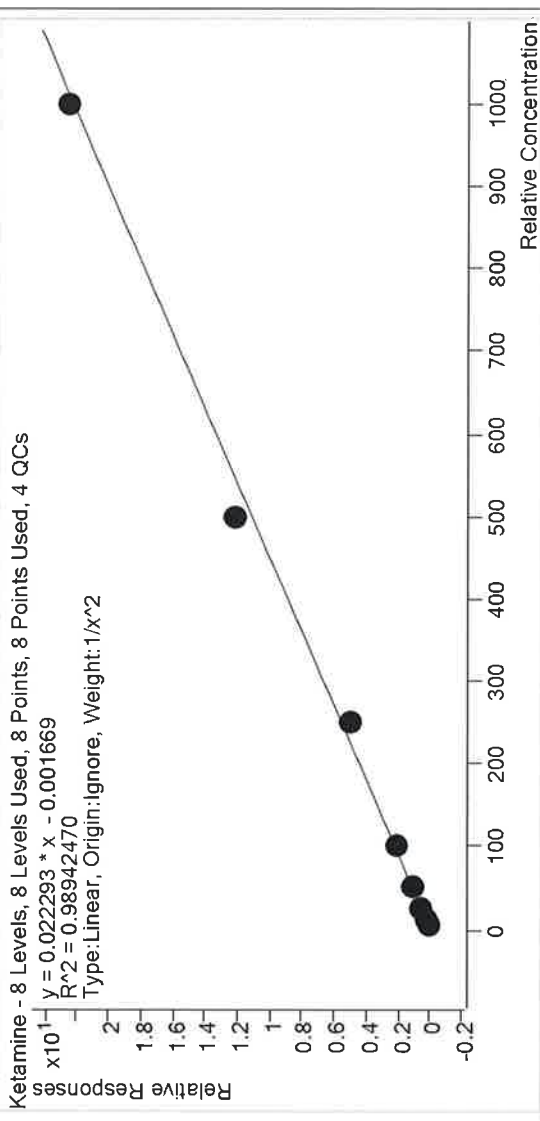


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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SPIQuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPIDastor
 Analyte Ketamine Internal Standard Ketamine-D4



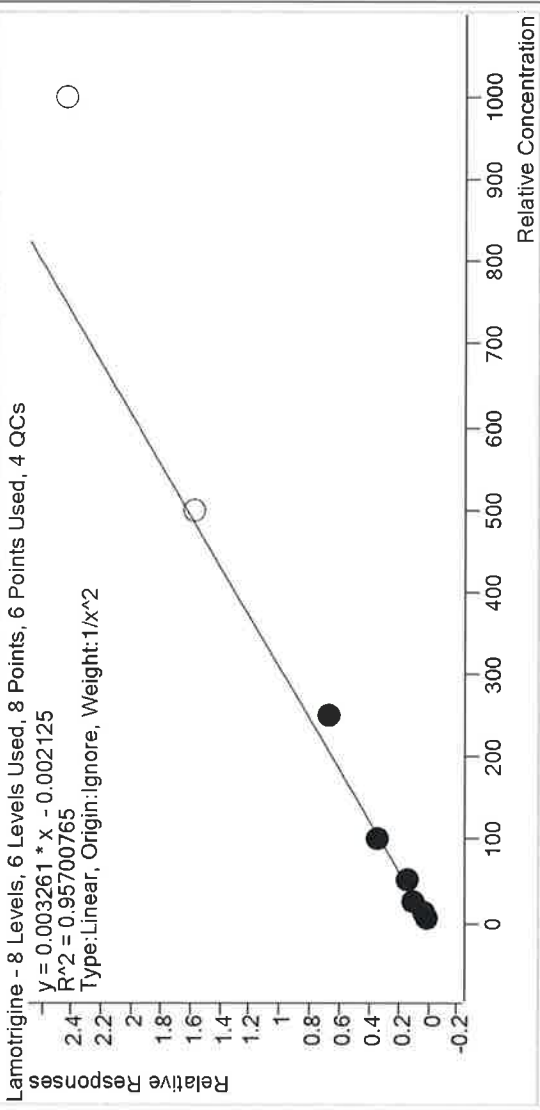
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2-10ng	2	✓	10.0	9.8	98.2
p1 Cal 3-25ng	3	✓	25.0	29.1	116.2
p1 Cal 4-50ng	4	✓	50.0	46.7	93.4
p1 Cal 5-100ng	5	✓	100.0	92.9	92.9
p1 Cal 6-250ng	6	✓	250.0	224.3	89.7
p1 Cal 7-500ng	7	✓	500.0	548.5	109.7
p1 Cal 8-1000ng	8	✓	1000.0	1010.7	101.1



TS R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDatastor
Analyte Lamotrigine Internal Standard Ketamine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2-10ng	2	✓	10.0	9.3	92.8
p1 Cal 3-25ng	3	✓	25.0	32.9	131.7
p1 Cal 4-50ng	4	✓	50.0	44.1	88.2
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	209.3	83.7
p1 Cal 7-500ng	7	✗	500.0	483.3	96.7
p1 Cal 8-1000ng	8	✗	1000.0	749.2	74.9

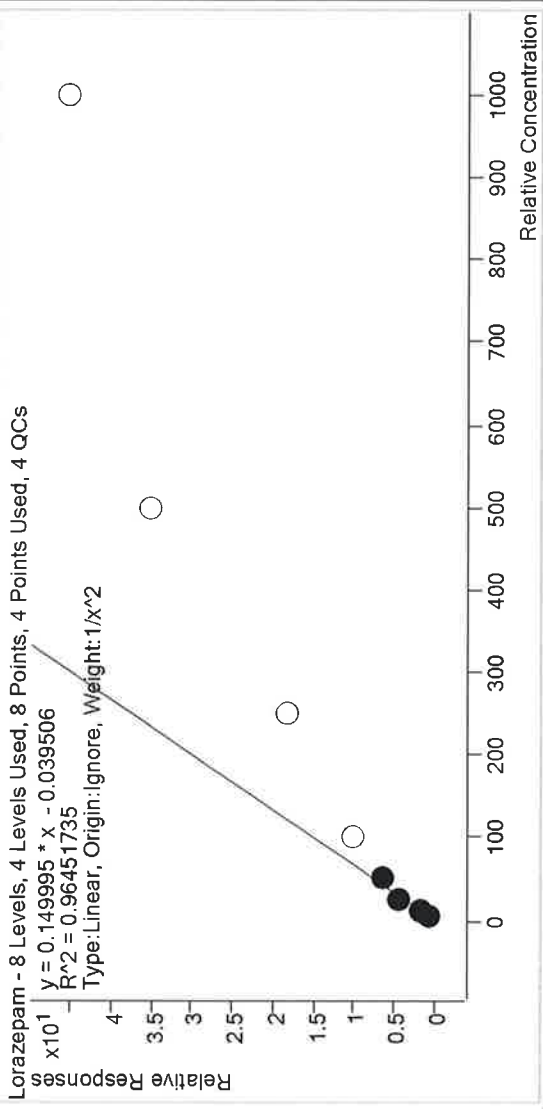
Did not evaluate.



TS
P

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SPlQuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDatastor
Analyte Lorazepam Internal Standard Cionazepam-D4



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	10.2	101.7
p1 Cal 3 -25ng	3	✓	25.0	29.2	116.9
p1 Cal 4-50ng	4	✓	50.0	42.0	84.0
p1 Cal 5-100ng	5	x	100.0	67.8	67.8
p1 Cal 6-250ng	6	x	250.0	122.6	49.1
p1 Cal 7-500ng	7	x	500.0	236.0	47.2
p1 Cal 8-1000ng	8	x	1000.0	302.3	30.2

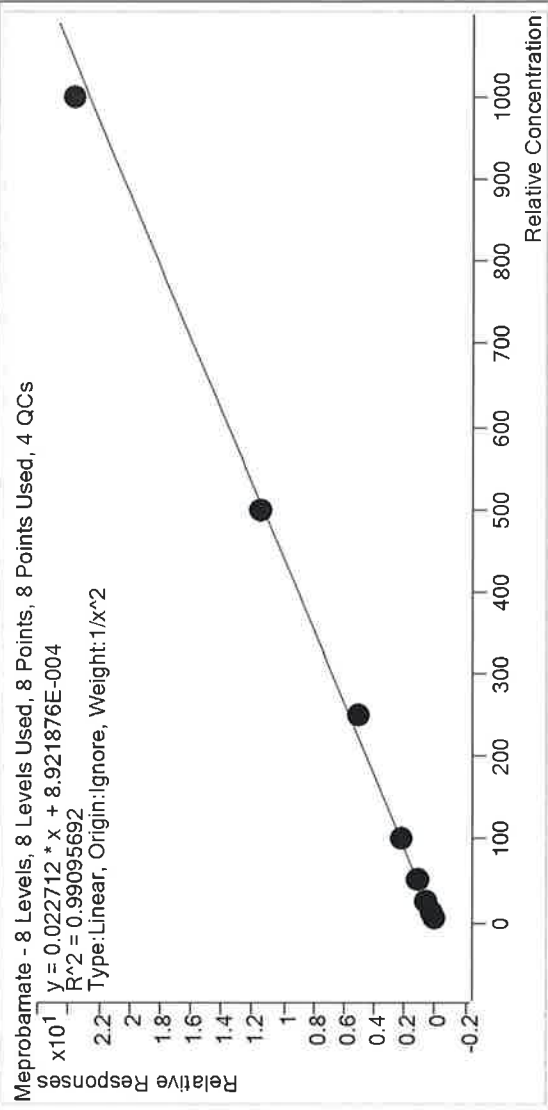
Did not evaluate.

TS
D



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDatastor
Analyte Meprobamate Internal Standard Meprobamate-D7



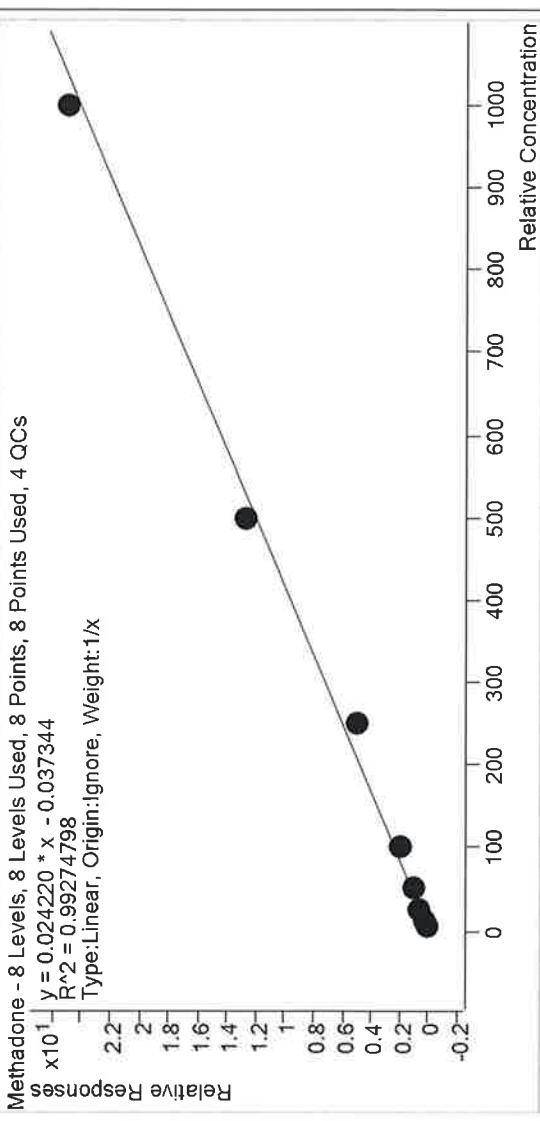
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2-10ng	2	✓	10.0	10.3	102.7
p1 Cal 3-25ng	3	✓	25.0	29.0	116.0
p1 Cal 4-50ng	4	✓	50.0	47.9	95.7
p1 Cal 5-100ng	5	✓	100.0	94.1	94.1
p1 Cal 6-250ng	6	✓	250.0	221.6	88.6
p1 Cal 7-500ng	7	✓	500.0	511.3	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1042.3	104.2



TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ_S\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datator
 Analyte Methadone Internal Standard Methadone-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.2
p1 Cal 2-10ng	2	✓	10.0	10.5	104.8
p1 Cal 3-25ng	3	✓	25.0	28.8	115.3
p1 Cal 4-50ng	4	✓	50.0	44.3	88.5
p1 Cal 5-100ng	5	✓	100.0	82.9	82.9
p1 Cal 6-250ng	6	✓	250.0	210.2	84.1
p1 Cal 7-500ng	7	✓	500.0	524.0	104.8
p1 Cal 8-1000ng	8	✓	1000.0	1033.5	103.4

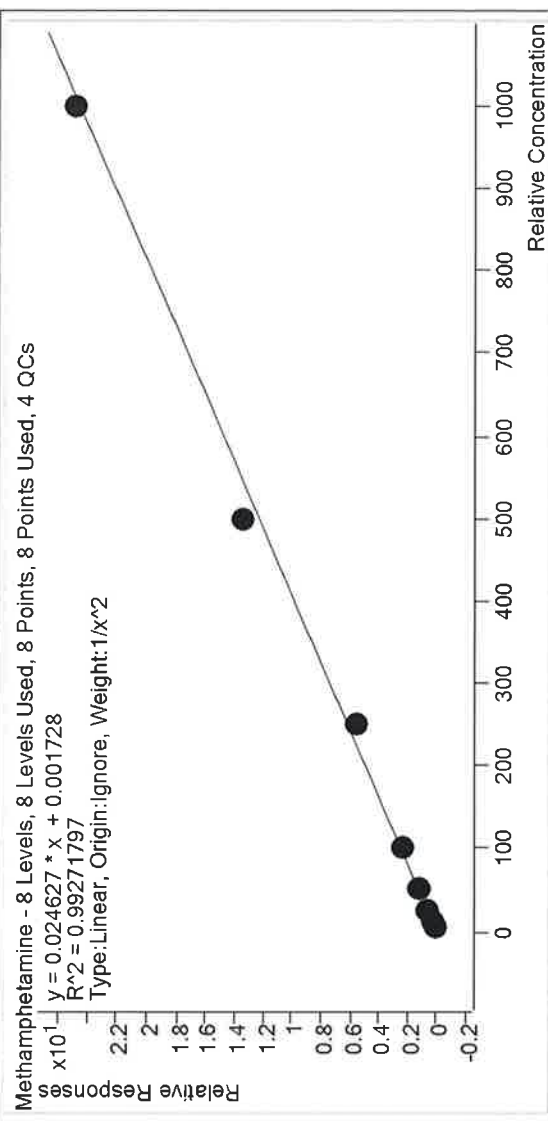


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8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPDastator

Analyte Methamphetamine Internal Standard Methamphetamine-D11



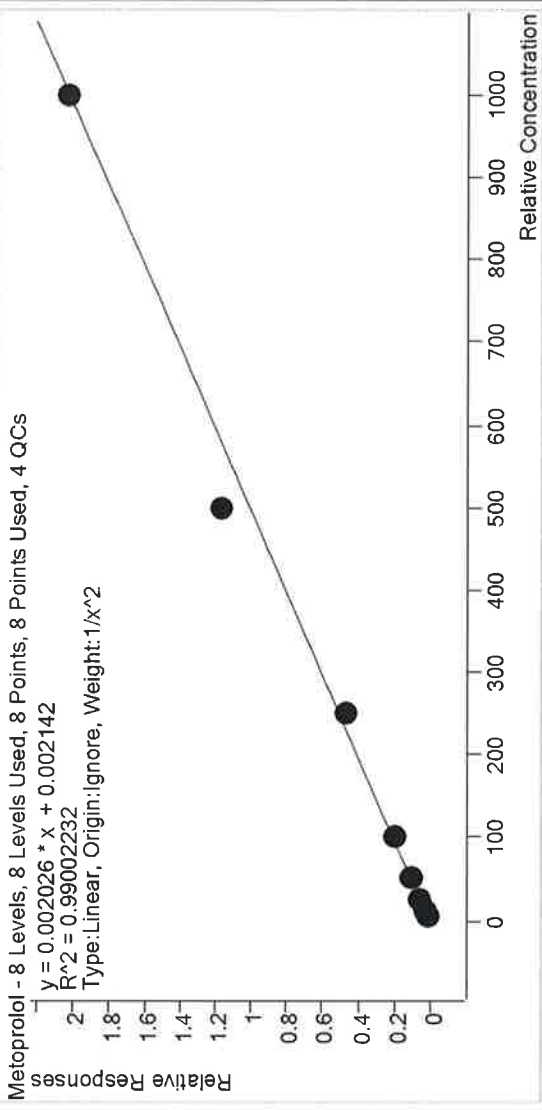
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
p1 Cal 2-10ng	2	✓	10.0	9.9	98.6
p1 Cal 3-25ng	3	✓	25.0	28.1	112.4
p1 Cal 4-50ng	4	✓	50.0	47.8	95.6
p1 Cal 5-100ng	5	✓	100.0	93.5	93.5
p1 Cal 6-250ng	6	✓	250.0	227.0	90.8
p1 Cal 7-500ng	7	✓	500.0	545.2	109.0
p1 Cal 8-1000ng	8	✓	1000.0	1009.9	101.0



TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P.1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datastor
 Analyte Metoprolol Internal Standard Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.5
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.8
p1 Cal 4-50ng	4	✓	50.0	47.1	94.1
p1 Cal 5-100ng	5	✓	100.0	91.0	91.0
p1 Cal 6-250ng	6	✓	250.0	227.6	91.0
p1 Cal 7-500ng	7	✓	500.0	582.3	116.5
p1 Cal 8-1000ng	8	✓	1000.0	1000.9	100.1

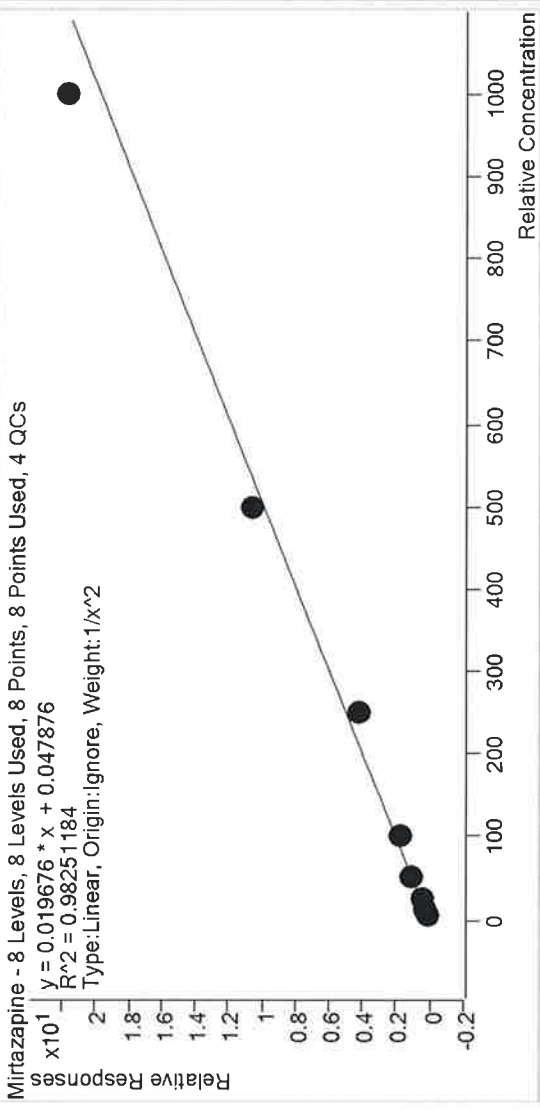


TS

8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\Datator
Analyte Mirtazapine Internal Standard alpha-PVP-d8



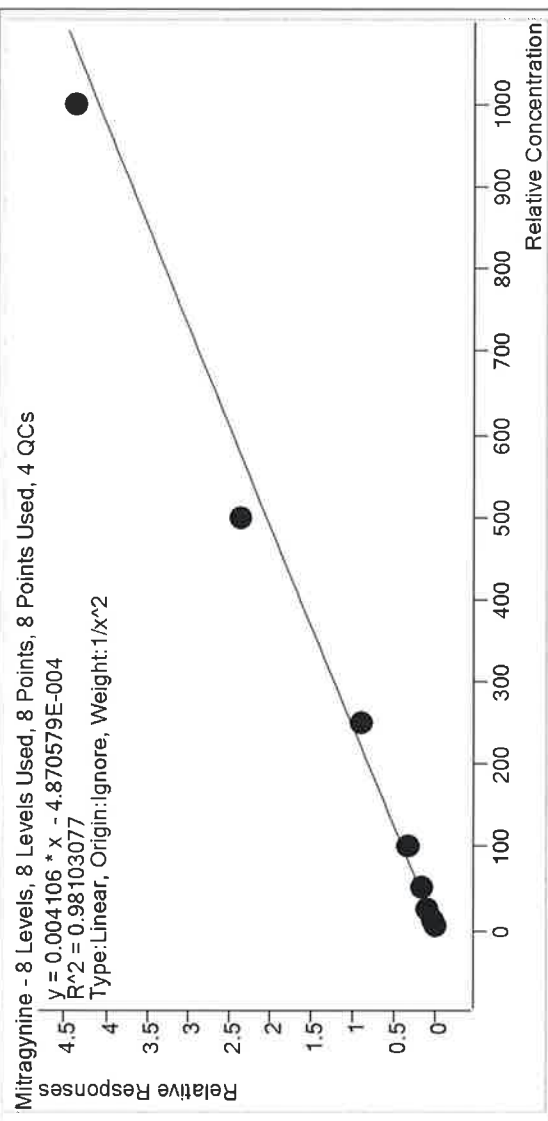
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.9
p1 Cal 2-10ng	2	✓	10.0	11.6	115.6
p1 Cal 3-25ng	3	✓	25.0	22.6	90.3
p1 Cal 4-50ng	4	✓	50.0	54.8	109.7
p1 Cal 5-100ng	5	✓	100.0	89.2	89.2
p1 Cal 6-250ng	6	✓	250.0	213.2	85.3
p1 Cal 7-500ng	7	✓	500.0	531.4	106.3
p1 Cal 8-1000ng	8	✓	1000.0	1098.4	109.8



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

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISP\Datasfor
Analyte Mitragynine Internal Standard Methadone-D9



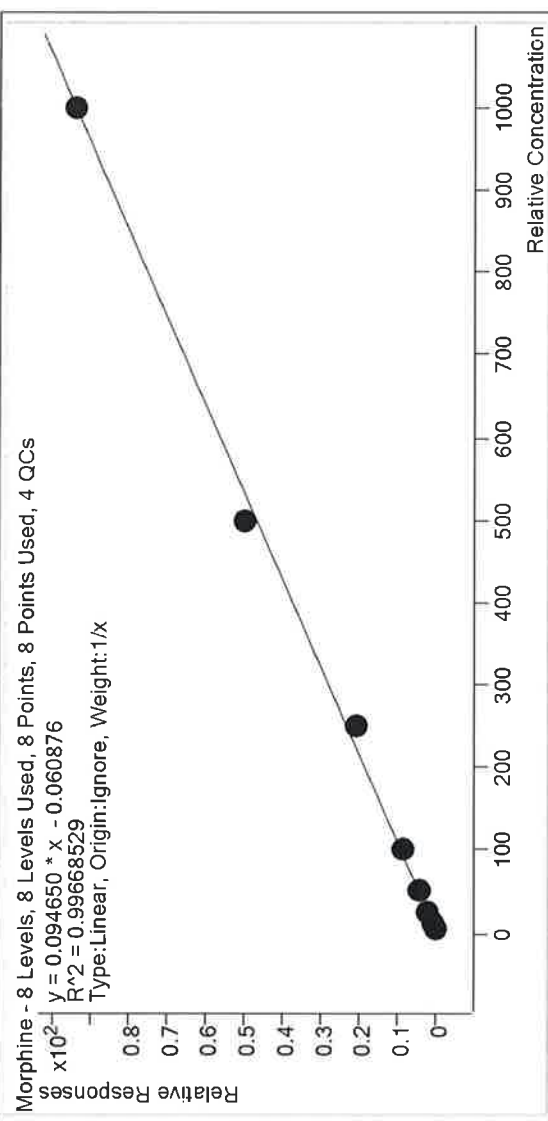
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.0
p1 Cal 2-10ng	2	✓	10.0	9.4	94.3
p1 Cal 3-25ng	3	✓	25.0	29.0	116.1
p1 Cal 4-50ng	4	✓	50.0	47.1	94.3
p1 Cal 5-100ng	5	✓	100.0	84.4	84.4
p1 Cal 6-250ng	6	✓	250.0	218.6	87.4
p1 Cal 7-500ng	7	✓	500.0	579.2	115.8
p1 Cal 8-1000ng	8	✓	1000.0	1065.5	106.6



TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDatastor
Analyte Morphine Internal Standard Morphine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.9
p1 Cal 2-10ng	2	✓	10.0	10.3	102.9
p1 Cal 3-25ng	3	✓	25.0	28.6	114.2
p1 Cal 4-50ng	4	✓	50.0	46.2	92.3
p1 Cal 5-100ng	5	✓	100.0	91.6	91.6
p1 Cal 6-250ng	6	✓	250.0	226.5	90.6
p1 Cal 7-500ng	7	✓	500.0	532.9	106.6
p1 Cal 8-1000ng	8	✓	1000.0	998.9	99.9

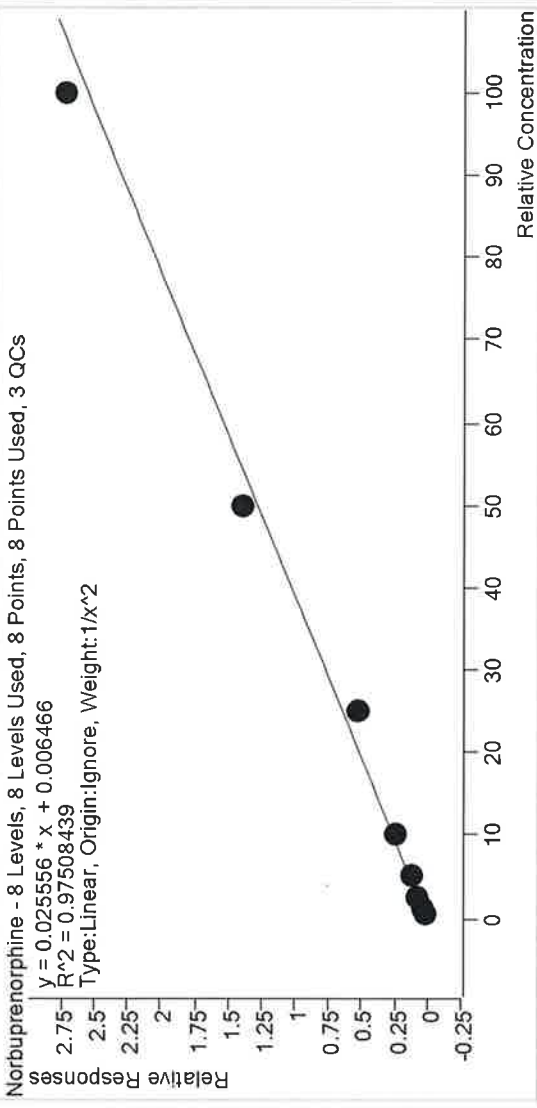


TS
8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\Mass Hunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPDastor

Analyte Norbuprenorphine Internal Standard Norbuprenorphine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	92.7
p1 Cal 2-10ng	2	✓	1.0	1.1	109.1
p1 Cal 3-25ng	3	✓	2.5	3.1	122.8
p1 Cal 4-50ng	4	✓	5.0	4.5	89.6
p1 Cal 5-100ng	5	✓	10.0	8.9	88.8
p1 Cal 6-250ng	6	✓	25.0	20.4	81.6
p1 Cal 7-500ng	7	✓	50.0	54.4	108.8
p1 Cal 8-1000ng	8	✓	100.0	106.4	106.4

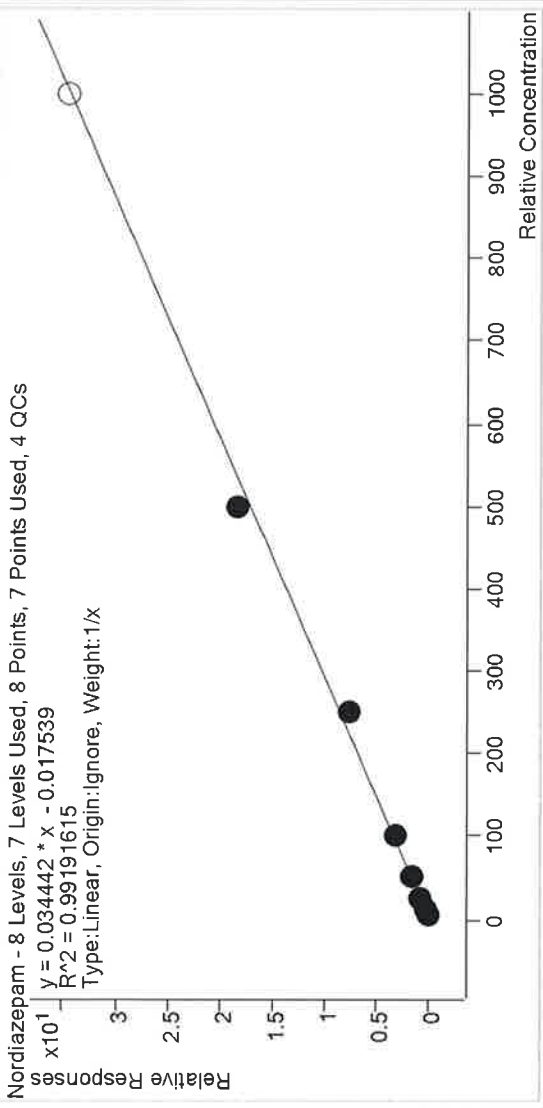
Did not evaluate.



TS
8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 2:37 PM
Analyst Name ISP\Datator
Analyte Nordiazepam Internal Standard Nordiazepam-D5



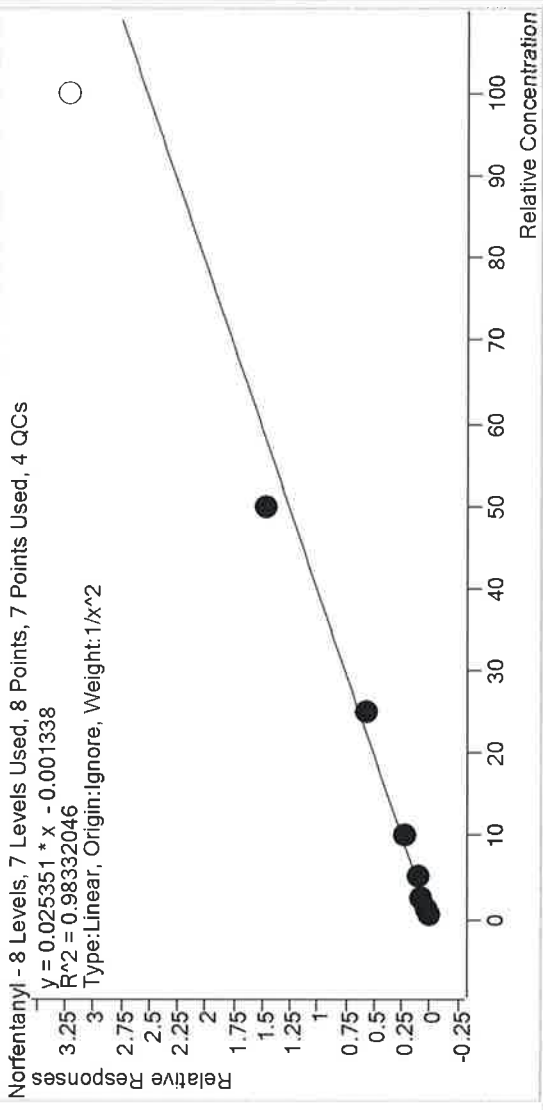
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	27.8	111.4
p1 Cal 4-50ng	4	✓	50.0	47.0	94.1
p1 Cal 5-100ng	5	✓	100.0	93.9	93.9
p1 Cal 6-250ng	6	✓	250.0	221.2	88.5
p1 Cal 7-500ng	7	✓	500.0	534.7	106.9
p1 Cal 8-1000ng	8	x	1000.0	1003.9	100.4



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P

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datator
 Analyte Norfentanyl Internal Standard Norfentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.4
p1 Cal 2-10ng	2	✓	1.0	1.0	97.0
p1 Cal 3-25ng	3	✓	2.5	2.8	113.2
p1 Cal 4-50ng	4	✓	5.0	4.4	87.8
p1 Cal 5-100ng	5	✓	10.0	9.3	93.2
p1 Cal 6-250ng	6	✓	25.0	22.9	91.7
p1 Cal 7-500ng	7	✓	50.0	58.3	116.7
p1 Cal 8-1000ng	8	x	100.0	127.2	127.2

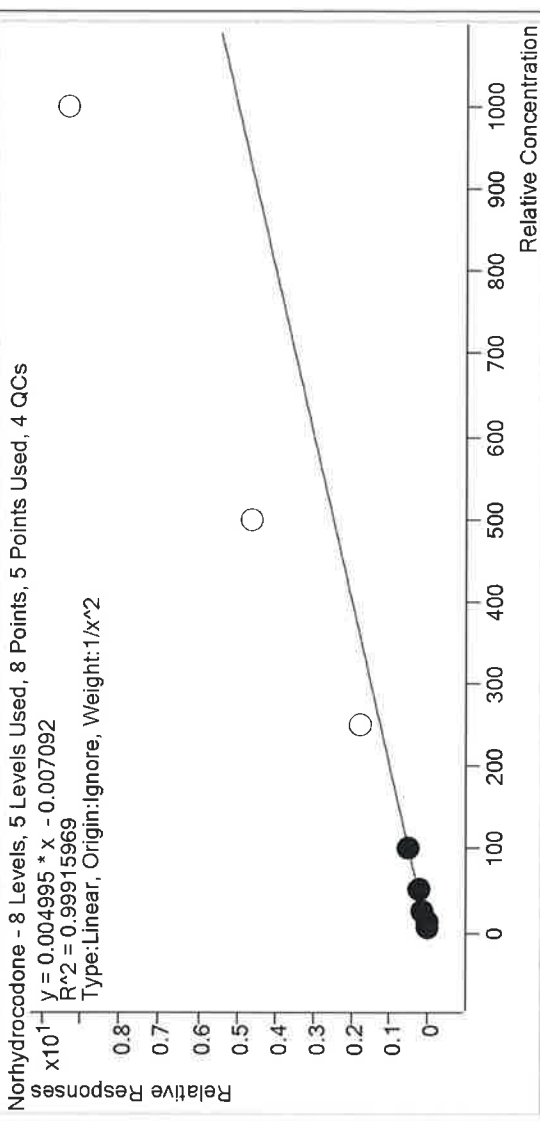
TS
8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPIDastator

Analyte Norhydrocodone Internal Standard Norhydrocodone-D3



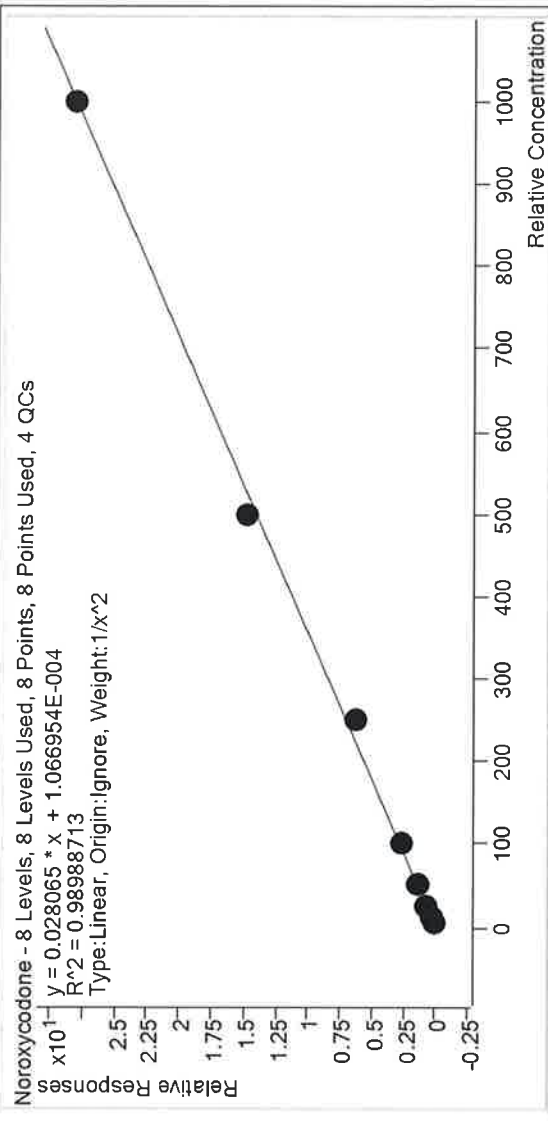
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2-10ng	2	✓	10.0	9.7	97.1
p1 Cal 3-25ng	3	✓	25.0	25.2	100.6
p1 Cal 4-50ng	4	✓	50.0	49.2	98.3
p1 Cal 5-100ng	5	✓	100.0	102.6	102.6
p1 Cal 6-250ng	6	*	250.0	354.1	141.6
p1 Cal 7-500ng	7	*	500.0	930.5	186.1
p1 Cal 8-1000ng	8	*	1000.0	1874.9	187.5



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D

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SPIQuantResults\MDQ P1_batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPI\dstastor
Analyte Noroxycodone Internal Standard Noroxycodone-D3



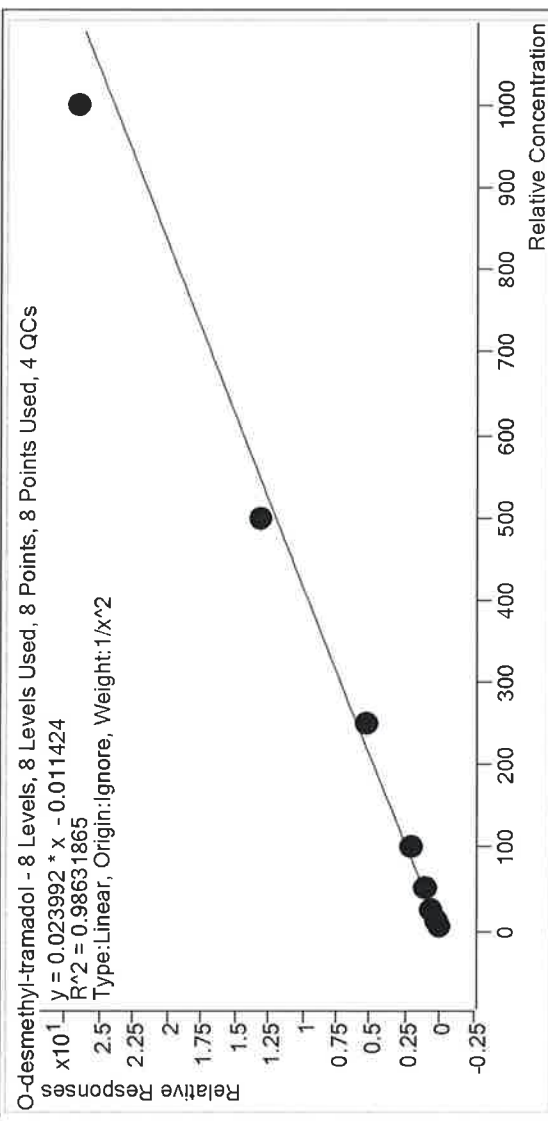
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
p1 Cal 2-10ng	2	✓	10.0	10.0	99.9
p1 Cal 3-25ng	3	✓	25.0	29.5	118.1
p1 Cal 4-50ng	4	✓	50.0	48.0	96.0
p1 Cal 5-100ng	5	✓	100.0	94.7	94.7
p1 Cal 6-250ng	6	✓	250.0	221.4	88.6
p1 Cal 7-500ng	7	✓	500.0	527.2	105.4
p1 Cal 8-1000ng	8	✓	1000.0	1000.1	100.0



TS R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISP\Datator
Analyte O-desmethyl-tramadol Internal Standard O-desmethyl-tramadol-D6



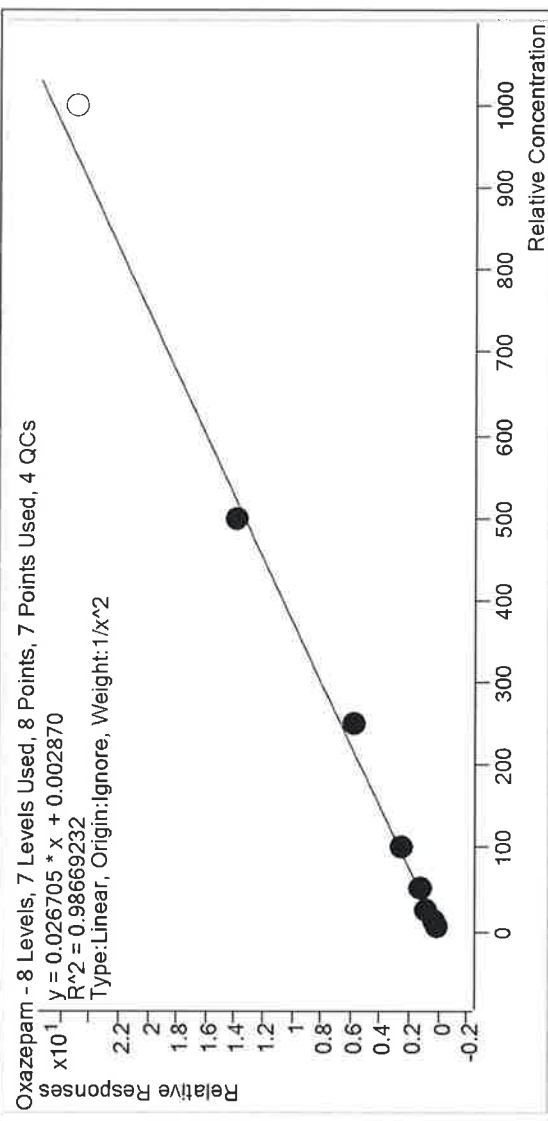
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2-10ng	2	✓	10.0	9.6	96.3
p1 Cal 3-25ng	3	✓	25.0	28.5	114.1
p1 Cal 4-50ng	4	✓	50.0	45.2	90.3
p1 Cal 5-100ng	5	✓	100.0	90.3	90.3
p1 Cal 6-250ng	6	✓	250.0	221.2	88.5
p1 Cal 7-500ng	7	✓	500.0	546.2	109.2
p1 Cal 8-1000ng	8	✓	1000.0	1106.4	110.6



TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\Mass Hunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPN\Datator
 Analyte Oxazepam Internal Standard Oxazepam-D5



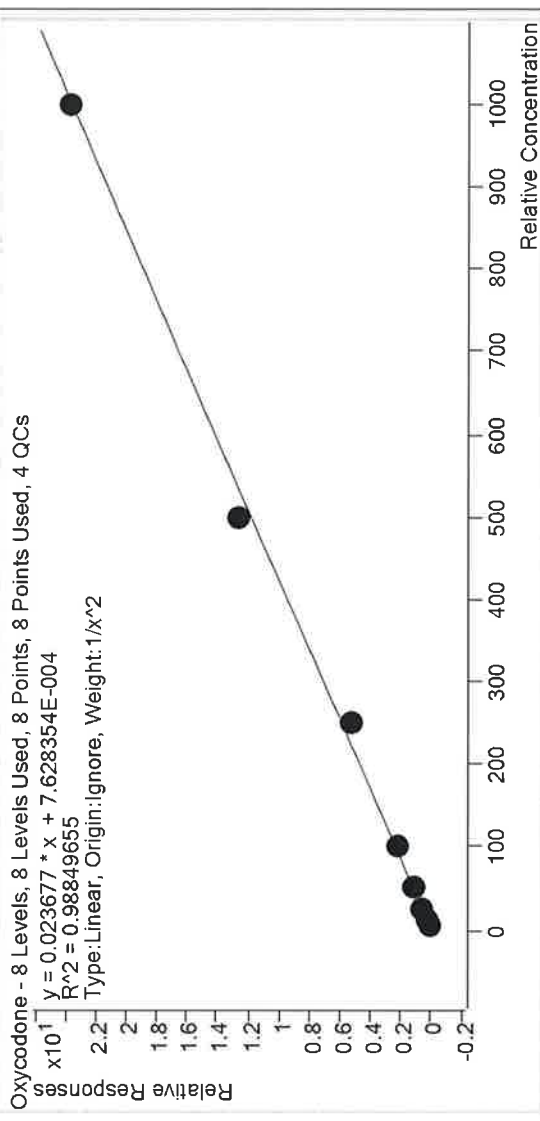
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2-10ng	2	✓	10.0	10.0	100.2
p1 Cal 3-25ng	3	✓	25.0	29.5	118.2
p1 Cal 4-50ng	4	✓	50.0	47.4	94.7
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	215.6	86.2
p1 Cal 7-500ng	7	✓	500.0	522.8	104.6
p1 Cal 8-1000ng	8	x	1000.0	936.2	93.6



TS
D

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPI\Datator
 Analyte Oxycodone Internal Standard Oxycodone-D6



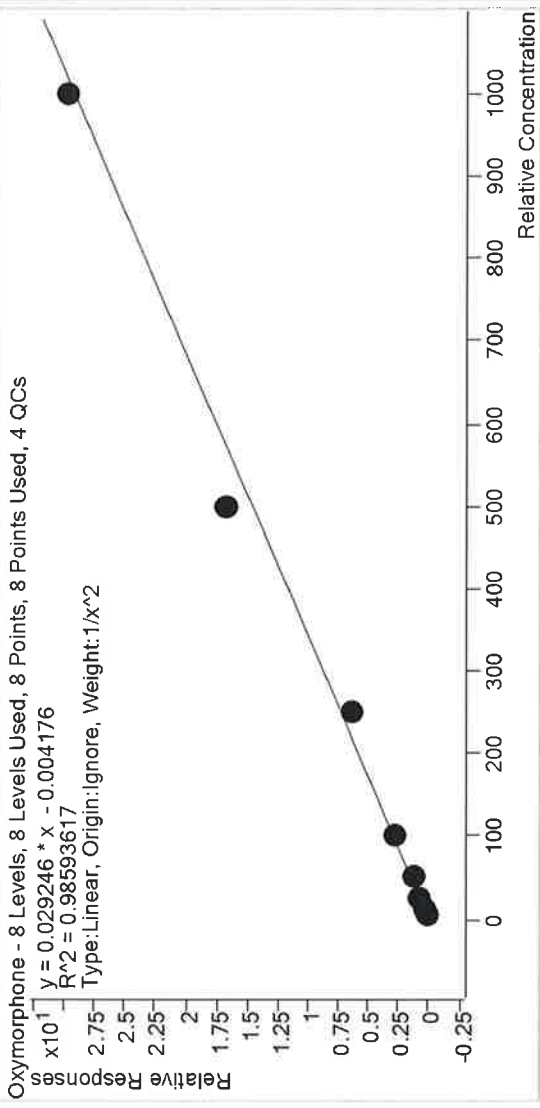
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2-10ng	2	✓	10.0	10.2	102.3
p1 Cal 3-25ng	3	✓	25.0	29.7	118.8
p1 Cal 4-50ng	4	✓	50.0	47.4	94.7
p1 Cal 5-100ng	5	✓	100.0	92.3	92.3
p1 Cal 6-250ng	6	✓	250.0	223.1	89.3
p1 Cal 7-500ng	7	✓	500.0	531.0	106.2
p1 Cal 8-1000ng	8	✓	1000.0	1002.8	100.3



TS
R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P.1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPI\Datasfor
 Analyte Oxymorphone Internal Standard Oxymorphone-D3



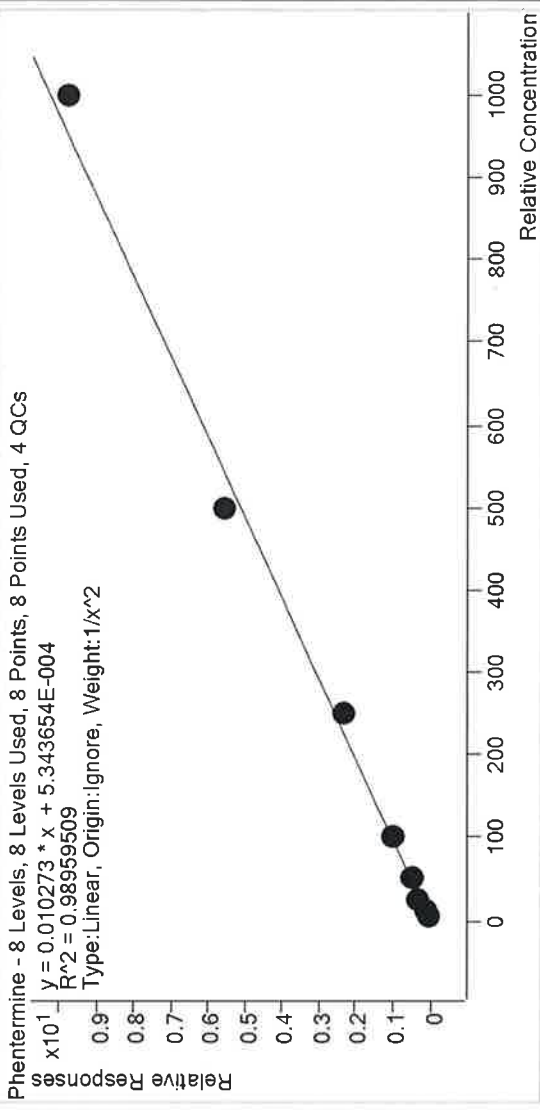
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2-10ng	2	✓	10.0	10.1	101.0
p1 Cal 3-25ng	3	✓	25.0	28.8	115.3
p1 Cal 4-50ng	4	✓	50.0	45.6	91.3
p1 Cal 5-100ng	5	✓	100.0	92.9	92.9
p1 Cal 6-250ng	6	✓	250.0	215.4	86.2
p1 Cal 7-500ng	7	✓	500.0	569.3	113.9
p1 Cal 8-1000ng	8	✓	1000.0	1017.3	101.7



TS
D

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\Mass Hunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P.1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISPIDastator
 Analyte Phentermine Internal Standard Phentermine-D5



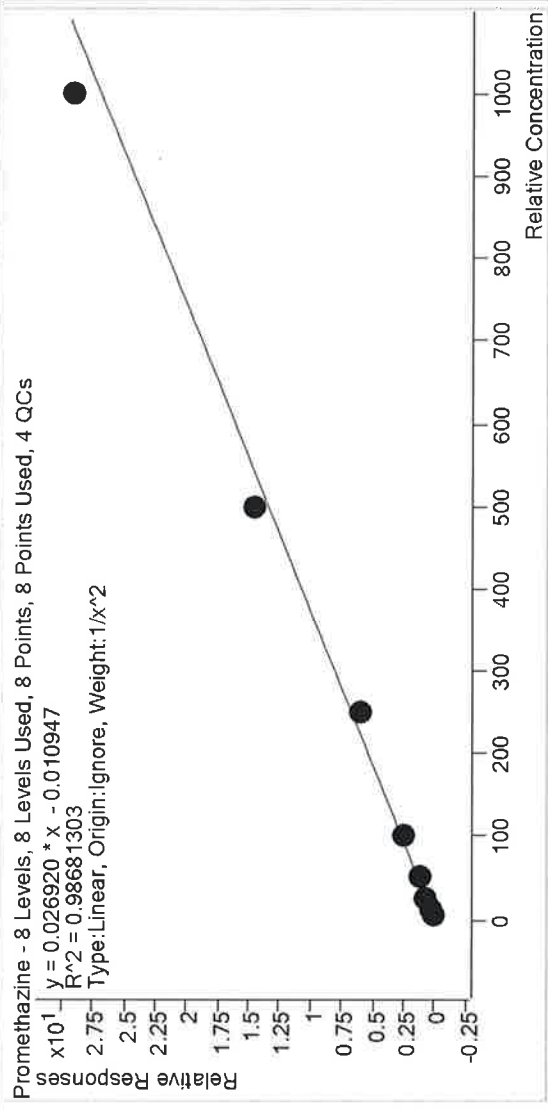
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2-10ng	2	✓	10.0	10.2	101.6
p1 Cal 3-25ng	3	✓	25.0	29.3	117.4
p1 Cal 4-50ng	4	✓	50.0	47.3	94.6
p1 Cal 5-100ng	5	✓	100.0	95.1	95.1
p1 Cal 6-250ng	6	✓	250.0	227.1	90.9
p1 Cal 7-500ng	7	✓	500.0	544.0	108.8
p1 Cal 8-1000ng	8	✓	1000.0	950.7	95.1



TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datator
 Analyte Promethazine Internal Standard Promethazine-D3



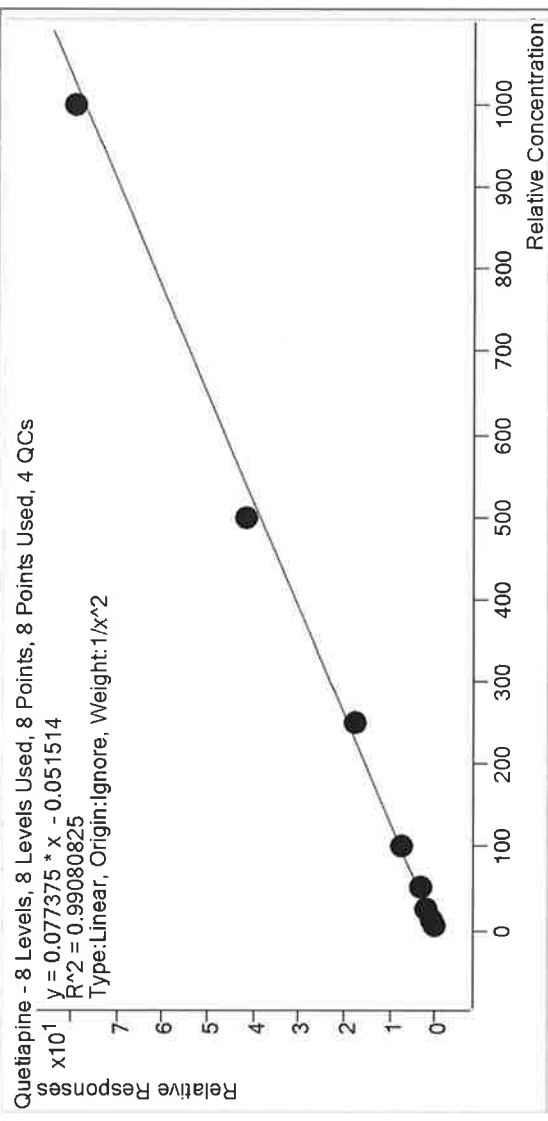
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2-10ng	2	✓	10.0	9.7	97.5
p1 Cal 3-25ng	3	✓	25.0	29.0	115.9
p1 Cal 4-50ng	4	✓	50.0	45.8	91.5
p1 Cal 5-100ng	5	✓	100.0	90.1	90.1
p1 Cal 6-250ng	6	✓	250.0	221.3	88.5
p1 Cal 7-500ng	7	✓	500.0	545.5	109.1
p1 Cal 8-1000ng	8	✓	1000.0	1078.6	107.9



TS
8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datator
 Analyte Quetiapine Internal Standard Quetiapine-D8



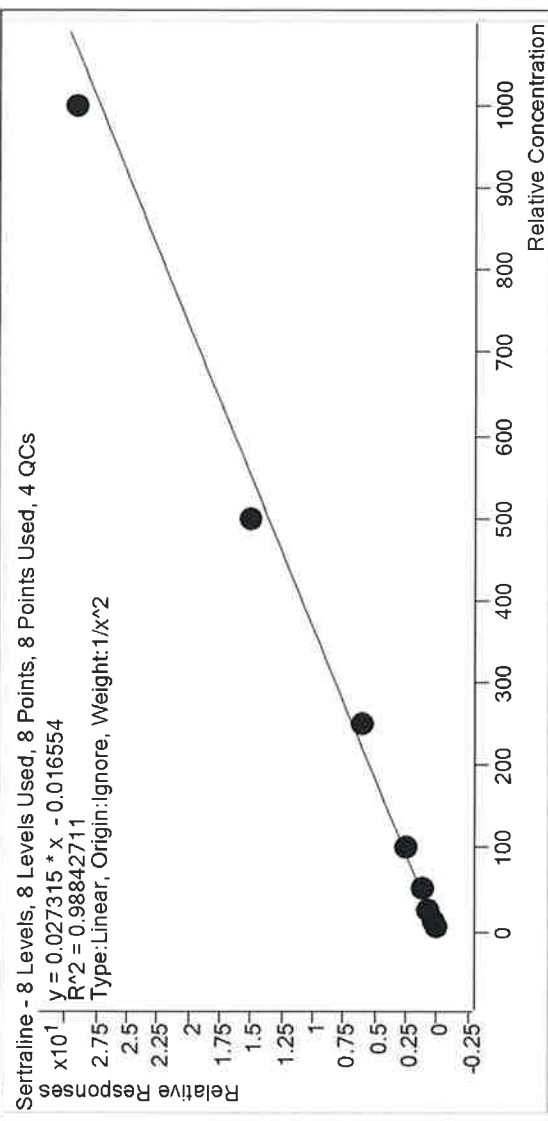
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2-10ng	2	✓	10.0	9.3	93.0
p1 Cal 3-25ng	3	✓	25.0	28.8	115.3
p1 Cal 4-50ng	4	✓	50.0	46.2	92.4
p1 Cal 5-100ng	5	✓	100.0	95.9	95.9
p1 Cal 6-250ng	6	✓	250.0	229.7	91.9
p1 Cal 7-500ng	7	✓	500.0	538.0	107.6
p1 Cal 8-1000ng	8	✓	1000.0	1024.9	102.5



TS
8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\Mass Hunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 Last Cal. Update 3/29/2019 12:48 PM
 Analyst Name ISP\Datator
 Analyte Sertraline Internal Standard Sertraline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3-25ng	3	✓	25.0	28.4	113.7
p1 Cal 4-50ng	4	✓	50.0	45.9	91.9
p1 Cal 5-100ng	5	✓	100.0	91.3	91.3
p1 Cal 6-250ng	6	✓	250.0	220.7	88.3
p1 Cal 7-500ng	7	✓	500.0	551.1	110.2
p1 Cal 8-1000ng	8	✓	1000.0	1066.8	106.7



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

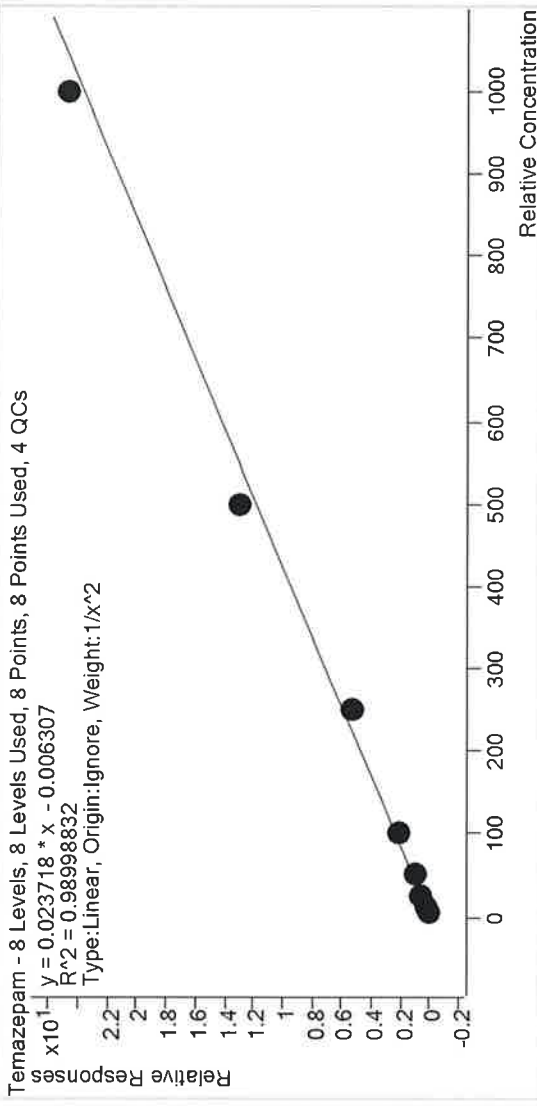
Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ.SP\QuantResults\MDQ P1.batch.bin

Last Cal. Update 3/29/2019 12:48 PM

Analyst Name ISP\Datator

Analyte Temazepam

Internal Standard Temazepam-D5



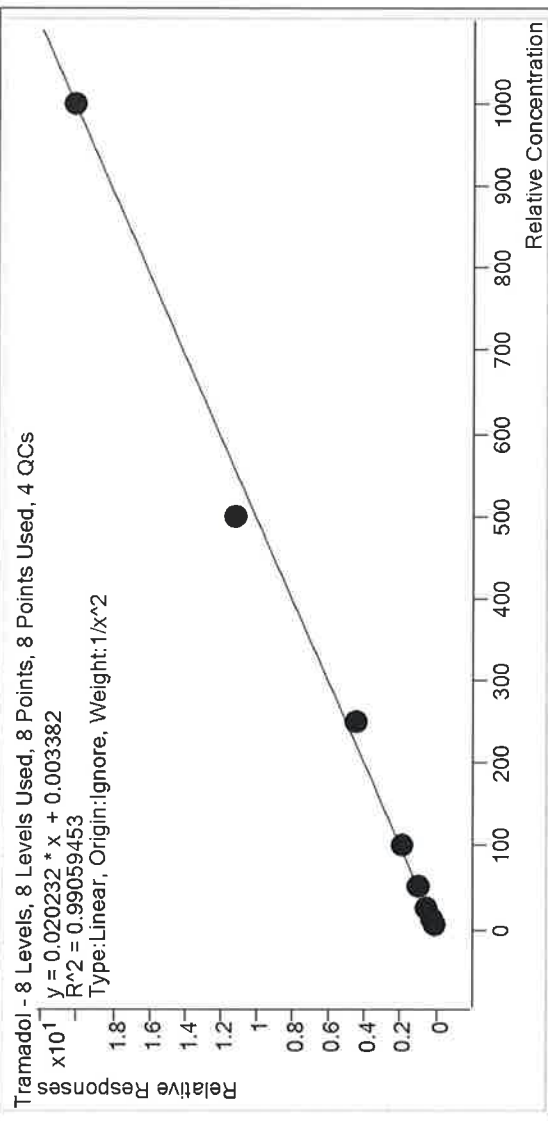
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.1
p1 Cal 2-10ng	2	✓	10.0	9.9	98.8
p1 Cal 3-25ng	3	✓	25.0	28.4	113.7
p1 Cal 4-50ng	4	✓	50.0	46.3	92.6
p1 Cal 5-100ng	5	✓	100.0	92.3	92.3
p1 Cal 6-250ng	6	✓	250.0	223.4	89.4
p1 Cal 7-500ng	7	✓	500.0	549.7	109.9
p1 Cal 8-1000ng	8	✓	1000.0	1042.6	104.3



TS 8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDastor
Analyte Tramadol Internal Standard Tramadol-13C-D3



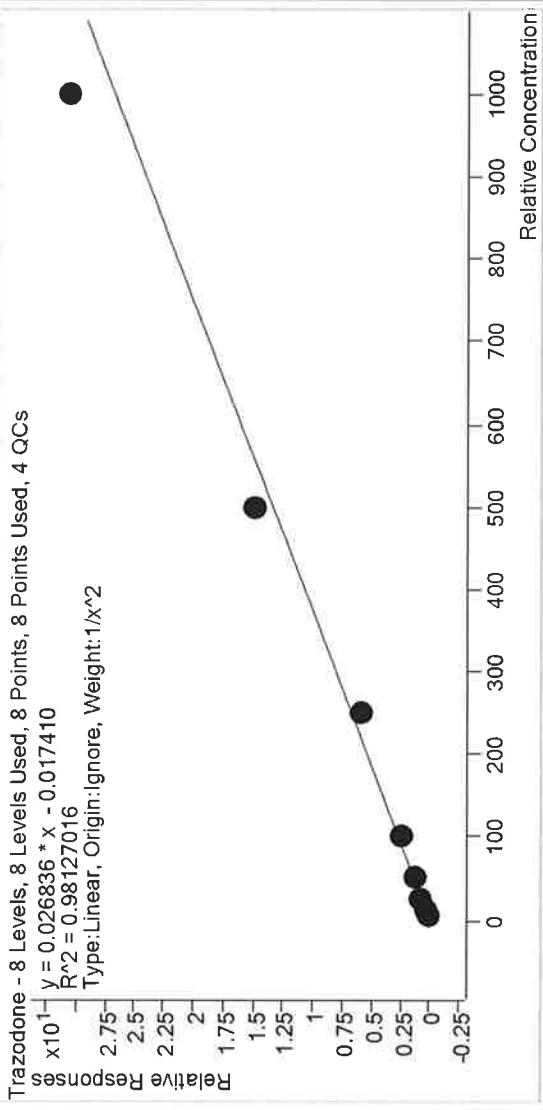
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.5
p1 Cal 3 -25ng	3	✓	25.0	28.7	114.8
p1 Cal 4-50ng	4	✓	50.0	46.7	93.4
p1 Cal 5-100ng	5	✓	100.0	94.3	94.3
p1 Cal 6-250ng	6	✓	250.0	225.3	90.1
p1 Cal 7-500ng	7	✓	500.0	551.3	110.3
p1 Cal 8-1000ng	8	✓	1000.0	997.7	99.8



TS R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISP\Datator
Analyte Trazodone Internal Standard Trazodone-D6



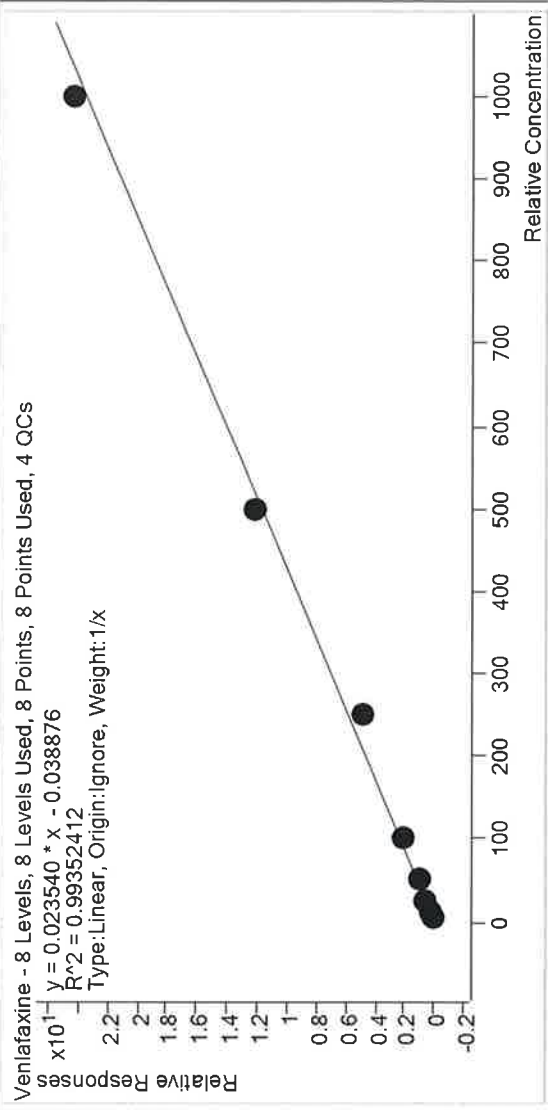
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2-10ng	2	✓	10.0	9.7	97.2
p1 Cal 3-25ng	3	✓	25.0	28.6	114.2
p1 Cal 4-50ng	4	✓	50.0	43.2	86.5
p1 Cal 5-100ng	5	✓	100.0	89.1	89.1
p1 Cal 6-250ng	6	✓	250.0	217.6	87.0
p1 Cal 7-500ng	7	✓	500.0	556.3	111.3
p1 Cal 8-1000ng	8	✓	1000.0	1141.6	114.2



TS R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDatastor
Analyte Venlafaxine Internal Standard Venlafaxine-D6



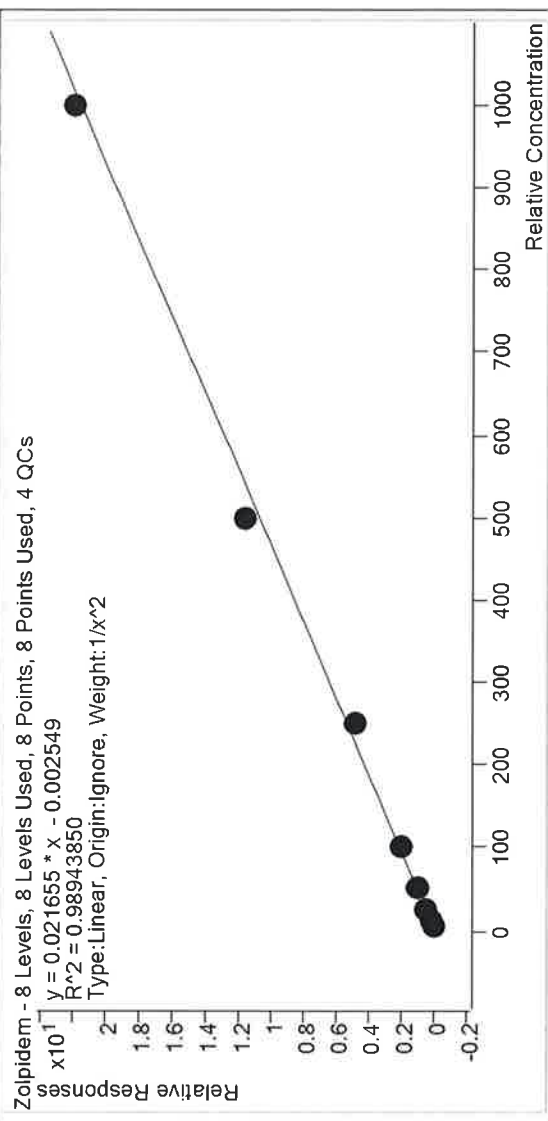
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.9
p1 Cal 2-10ng	2	✓	10.0	10.4	104.2
p1 Cal 3-25ng	3	✓	25.0	27.8	111.4
p1 Cal 4-50ng	4	✓	50.0	43.5	87.1
p1 Cal 5-100ng	5	✓	100.0	88.3	88.3
p1 Cal 6-250ng	6	✓	250.0	208.9	83.5
p1 Cal 7-500ng	7	✓	500.0	521.5	104.3
p1 Cal 8-1000ng	8	✓	1000.0	1033.7	103.4



TS
R

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P.1.batch.bin
Last Cal. Update 3/29/2019 12:48 PM
Analyst Name ISPIDatastor
Analyte Zolpidem Internal Standard Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2-10ng	2	✓	10.0	9.8	98.3
p1 Cal 3-25ng	3	✓	25.0	29.3	117.1
p1 Cal 4-50ng	4	✓	50.0	45.9	91.8
p1 Cal 5-100ng	5	✓	100.0	92.3	92.3
p1 Cal 6-250ng	6	✓	250.0	229.4	91.8
p1 Cal 7-500ng	7	✓	500.0	542.1	108.4
p1 Cal 8-1000ng	8	✓	1000.0	1016.1	101.6

TS

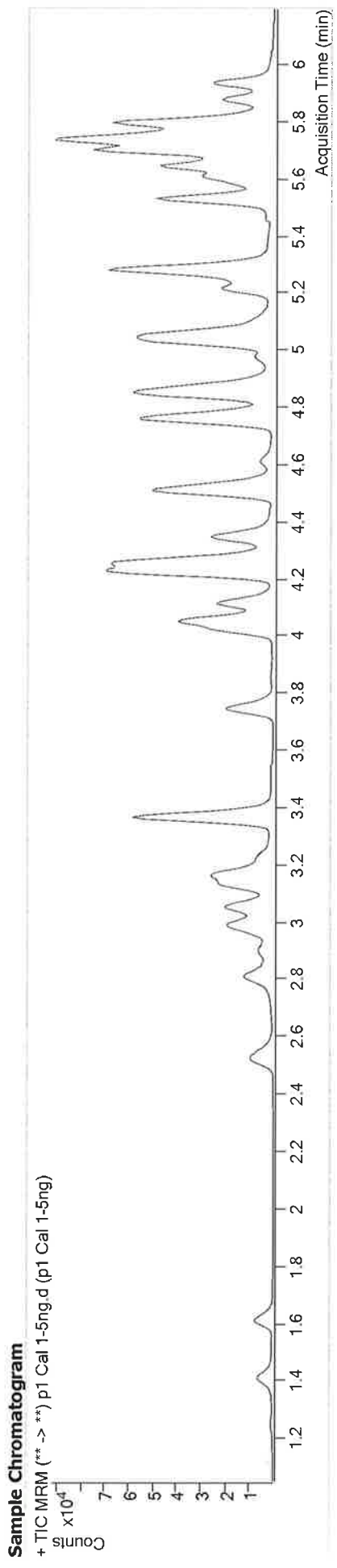


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ_SPI\QuantResults\MDQ P1.batch.bin
Calibration Last Update 3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 0699001)
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-H12
Injection Volume 1
Acq. Date-Time 3/28/2019 2:19:01 PM
Sample Info.

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	695	398.08	68.3	51.08	42301	0.5051 ng/ml
7-aminoclonazepam	4.253	3458	1350.21	75.8	10234.11	29569	4.7470 ng/ml
a-hydroxyalprazolam	5.682	2575	283.00	67.3	87.66	25925	4.8421 ng/ml
alpha-PVP	4.360	5686	4711.91	52.4	128.91	51984	5.0132 ng/ml
Alprazolam	5.766	5647	612.91	108.5	183.81	34936	6.1588 ng/ml
Amphetamine	3.062	9806	486.35	58.7	519.30	28133	4.9099 ng/ml
Benzoyllecgonine	3.876	320	12.14	8.3	12.13	1769	5.6331 ng/ml
Buprenorphine	5.762	575	41.11	15.3	33.17	42479	0.5030 ng/ml
Bupropion	4.782	18659	9000.10	59.6	∞	129419	5.6130 ng/ml
Carisoprodol	5.714	7434	414.13	54.5	43.88	74971	4.8856 ng/ml
Citalopram	5.222	4441	192.53	37.0	18185.07	37166	6.2598 ng/ml
Clonazepam	5.602	4180	442.32	38.0	1215.81	14050	5.0394 ng/ml
Cocaine	4.259	5932	2087.07	43.9	4099.95	113532	5.9979 ng/ml
Codeine	2.583	956	497.47	102.4	476.09	8821	5.4750 ng/ml
Cyclobenzaprine	5.618	4769	224.01	9.9	81.53	40032	4.9362 ng/ml
Dextromethorphan	5.265	2940	290.81	79.3	2797.47	28921	4.9521 ng/ml
Dextroproprian	4.122	1932	1543.37	205.2	5127.41	45335	5.9592 ng/ml
Diazepam	5.945	4016	579.12	87.8	493.31	37369	4.9444 ng/ml



AM #28 Multi-Drug Quant. Results

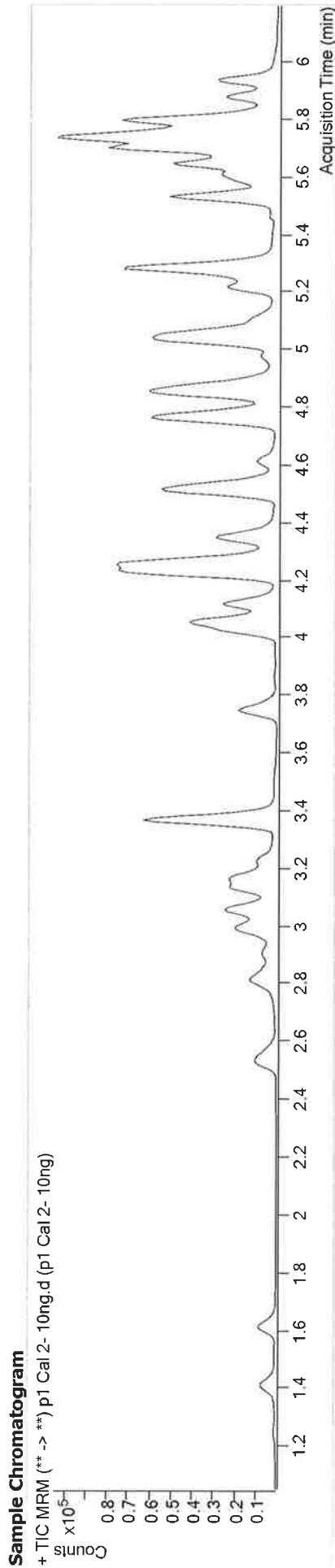
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	2184	13331.20	69.1	4523.13	24225	4.8016 ng/ml
Diphenhydramine	5.292	13217	∞	34.4	176.26	138355	5.9215 ng/ml
Doxylamine	4.529	13157	4552.10	97.4	16527.76	121212	5.3837 ng/ml
EDDP	5.251	163	11.55	44.4	120.95	2001	5.6276 ng/ml
Fentanyl	5.079	435	214.08	83.7	449.29	43995	0.4917 ng/ml
Fluoxetine	5.711	5910	6904.78	10.0	∞	47334	6.0545 ng/ml
Hydrocodone	3.025	2307	408.24	40.9	50.68	29128	4.8065 ng/ml
Hydromorphone	1.621	2480	440.60	73.5	199.56	17852	4.9299 ng/ml
Ketamine	4.042	5576	1683.74	35.8	131.49	51430	4.9380 ng/ml
Lamotrigine	4.290	717	452.35	72.9	2906.22	51430	4.9255 ng/ml
Lorazepam	5.737	9702	1029.85	56.5	42.69	14050	4.8670 ng/ml
Meprobamate	4.899	4216	1060.37	28.9	132.80	38211	4.8182 ng/ml
Methadone	5.650	7434	1538.22	49.1	461.05	71951	5.8079 ng/ml
Methamphetamine	3.231	7241	50.61	40.8	121.87	58536	4.9528 ng/ml
Metoprolol	4.322	1451	3641.78	93.2	892.12	121207	4.8534 ng/ml
Mirtazapine	4.610	7291	∞	48.2	2553.65	51984	4.6949 ng/ml
Mitragynine	5.214	1457	10414.11	39.1	145.43	71951	5.0512 ng/ml
Morphine	1.260	617	3575.58	24.7	5181.72	1464	5.0932 ng/ml
Norbuprenorphine	4.988	220	507.45	84.5	89.88	11995	0.4635 ng/ml
Nordiazepam	5.891	4372	313.47	57.9	455.45	26937	5.2223 ng/ml
Norfentanyl	4.084	910	109.15	38.8	43.39	79919	0.5021 ng/ml
Norhydrocodone	3.073	582	121.52	39.2	34.67	31950	5.0676 ng/ml
Noroxycodone	2.921	1822	305.30	49.1	∞	13338	4.8636 ng/ml
O-desmethyl-tramadol	3.379	14111	745.02	6.5	126.08	129208	5.0284 ng/ml
Oxazepam	5.747	11416	92.78	62.2	33.99	86174	4.8530 ng/ml
Oxycodone	2.840	4407	54.98	29.7	179.88	38449	4.8085 ng/ml
Oxymorphone	1.417	2421	110.75	47.8	482.38	17436	4.8905 ng/ml
Phentermine	3.787	2575	54.55	4.6	19.37	51315	4.8325 ng/ml
Promethazine	5.535	9011	371.85	27.3	745.26	73241	4.9770 ng/ml
Quetiapine	5.538	5362	6421.00	62.5	576.86	15717	5.0753 ng/ml
Sertraline	5.780	3253	320.55	93.7	571.70	27346	4.9608 ng/ml
Temazepam	5.808	11324	322.10	29.8	19.99	101841	4.9541 ng/ml
Tramadol	4.242	12530	5075.71	3.4	79.42	121207	4.9423 ng/ml
Trazodone	5.106	5527	353.86	79.9	2315.80	47033	5.0274 ng/ml
Venlafaxine	5.040	9109	333.72	37.5	212.29	91237	5.8926 ng/ml
Zolpidem	4.876	12421	14879.64	30.8	1837.02	119077	4.9346 ng/ml



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 2- 10ng.d
Type Cal **Sample** p1 Cal 2- 10ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Sarah Pickle
Sample Position P1-G12 **Comment**
Injection Volume 1
Acq. Date-Time 3/28/2019 2:29:40 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	1330	1273.07	69.2	220.23	41146	0.9627 ng/ml
7-aminoclonazepam	4.253	6802	11035.73	79.8	4019.04	27488	10.3651 ng/ml
a-hydroxyalprazolam	5.682	5064	221.24	68.7	279.13	24257	10.0835 ng/ml
alpha-PVP	4.360	11493	9396.44	52.7	171.26	51494	9.7486 ng/ml
Alprazolam	5.766	11319	308.99	104.6	754.78	33648	10.6090 ng/ml
Amphetamine	3.069	18203	806.49	59.0	1370.97	25643	9.8707 ng/ml
Benzoylcegonine	3.876	518	1556.54	7.5	37.12	1429	11.6867 ng/ml
Buprenorphine	5.762	969	94.49	13.6	131.63	39366	0.9533 ng/ml
Bupropion	4.782	35824	16525.01	60.1	1580.97	120880	10.3544 ng/ml
Carisoprodol	5.714	14824	2779.48	56.3	684.28	72349	10.0655 ng/ml
Citalopram	5.222	8421	7636.83	40.8	977.43	35492	10.5945 ng/ml
Clonazepam	5.595	6735	699.32	36.9	1095.32	12456	9.2772 ng/ml
Cocaine	4.259	11165	3432.74	47.1	7747.62	112461	10.0246 ng/ml
Codeine	2.590	1861	9848.81	99.3	387.61	8388	10.2161 ng/ml
Cyclobenzaprine	5.618	7898	13735.18	10.7	239.17	30977	9.9172 ng/ml
Dextromethorphan	5.265	5821	332.54	78.5	1072.15	26996	9.9509 ng/ml
Dextroprphan	4.122	4004	770.92	201.9	5836.45	44728	10.6390 ng/ml
Diazepam	5.945	8245	345.30	84.2	228.04	36245	10.0154 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	4518	39426.76	67.7	27205.91	23943	10.1452 ng/ml
Diphenhydramine	5.292	25858	565.34	34.0	258.74	130143	10.5039 ng/ml
Doxylamine	4.529	27301	∞	97.4	22271.84	119476	10.3135 ng/ml
EDDP	5.257	335	39.95	39.8	39.85	1525	11.7447 ng/ml
Fentanyl	5.079	871	127.58	74.4	900.20	40203	1.0273 ng/ml
Fluoxetine	5.711	11754	8829.00	9.6	2587.65	41870	10.9066 ng/ml
Hydrocodone	3.025	4960	45.17	38.2	147.51	28653	10.2830 ng/ml
Hydromorphone	1.621	4732	597.67	74.5	304.94	16272	10.0901 ng/ml
Ketamine	4.042	11012	5712.54	36.6	145.91	50681	9.8219 ng/ml
Lamotrigine	4.290	1426	836.26	80.0	1937.67	50681	9.2808 ng/ml
Lorazepam	5.737	18518	∞	57.8	118.09	12456	10.1749 ng/ml
Meprobamate	4.906	8485	6179.94	28.2	∞	36243	10.2685 ng/ml
Methadone	5.650	14569	1411.34	49.7	1142.56	67266	10.4846 ng/ml
Methamphetamine	3.231	11642	54.72	41.4	218.20	47591	9.8635 ng/ml
Metoprolol	4.322	2924	2209.41	93.5	∞	123350	10.6459 ng/ml
Mirtazapine	4.617	14179	5200.71	47.2	5627.19	51494	11.5608 ng/ml
Mitragynine	5.214	2573	8483.31	37.6	∞	67266	9.4329 ng/ml
Morphine	1.260	1162	3661.01	21.9	528.12	1273	10.2887 ng/ml
Norbuprenorphine	4.982	369	134.07	97.5	349.24	10751	1.0914 ng/ml
Nordiazepam	5.891	8734	583.67	58.3	537.46	26501	10.0787 ng/ml
Norfentanyl	4.084	1815	431.35	39.1	118.94	78048	0.9700 ng/ml
Norhydrocodone	3.073	1292	105.66	40.2	98.52	31198	9.7129 ng/ml
Noroxycodone	2.928	3559	93.25	52.0	221.24	12690	9.9899 ng/ml
O-desmethyl-tramadol	3.379	27869	1094.53	6.6	∞	126914	9.6290 ng/ml
Oxazepam	5.747	22203	69.92	68.4	57.38	82077	10.0219 ng/ml
Oxycodone	2.840	8800	85.71	31.8	447.36	36225	10.2276 ng/ml
Oxymorphone	1.417	4881	193.02	47.8	121.42	16765	10.0980 ng/ml
Phentermine	3.787	4882	∞	4.5	31.06	46553	10.1564 ng/ml
Promethazine	5.535	15855	1223.49	29.1	800.42	63066	9.7456 ng/ml
Quetiapine	5.538	9921	∞	64.1	2202.76	14857	9.2960 ng/ml
Sertraline	5.780	5961	406.81	94.9	249.63	23532	9.8797 ng/ml
Temazepam	5.808	23071	220.75	27.3	∞	101161	9.8814 ng/ml
Tramadol	4.242	24990	881.53	3.7	82.85	123350	9.8466 ng/ml
Trazodone	5.113	10573	27330.31	75.8	3242.25	43448	9.7166 ng/ml
Venlafaxine	5.040	18861	405.95	35.7	233.59	91345	10.4230 ng/ml
Zolpidem	4.876	24906	1201.54	31.9	1898.52	118371	9.8341 ng/ml

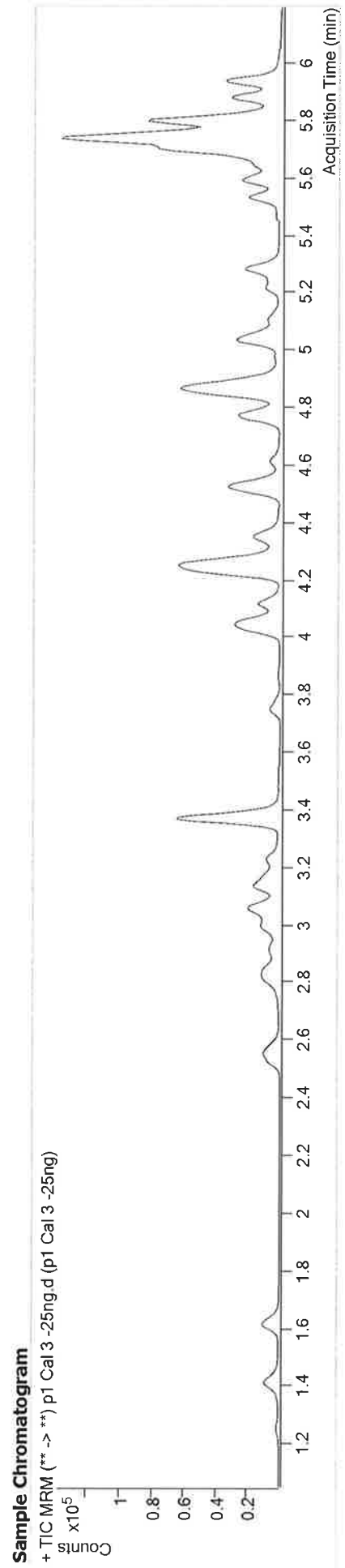


AM #28 Multi-Drug Quant. Results

Batch results
 Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
 3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901)
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-F12
Injection Volume 1
Acq. Date-Time 3/28/2019 2:40:09 PM
Sample Info.

Data File
Sample p1 Cal 3 -25ng.d
Operator Sarah Pickle
Comment



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	2817	1113.10	71.5	1089.26	29306	2.7984 ng/ml
7-aminodiazepam	4.253	16572	725.46	78.9	∞	23657	29.8726 ng/ml
a-hydroxyalprazolam	5.682	13646	136.68	65.2	231.96	22210	29.5132 ng/ml
Alprazolam	4.360	13082	13030.84	50.8	590.54	19711	28.0749 ng/ml
Amphetamine	5.759	28825	820.69	107.3	750.01	30139	26.3988 ng/ml
Benzoylcegonine	3.069	18905	18.87	58.1	3495.09	8860	29.4220 ng/ml
Buprenorphine	3.876	1224	1677.50	7.5	55.92	1433	28.0426 ng/ml
Bupropion	5.762	629	42.68	12.7	42.97	8589	2.9250 ng/ml
Carisoprodol	4.782	27241	3917.76	61.1	914.30	31798	27.8119 ng/ml
Citalopram	5.222	39356	3713.01	56.4	245.19	66878	28.8553 ng/ml
Clonazepam	5.595	5637	139.92	42.4	424.14	8350	26.7121 ng/ml
Cocaine	4.259	18795	1041.12	35.5	12401.51	11181	29.1475 ng/ml
Codeine	4.259	17589	11814.70	45.3	51409.44	58644	27.2068 ng/ml
Cyclobenzaprine	2.590	4122	5526.91	100.1	3458.24	6347	28.0766 ng/ml
Dextromethorphan	5.618	4658	2379.61	10.6	20.85	5935	29.3465 ng/ml
Dextropropion	5.265	3415	334.99	79.2	2554.40	5350	28.4926 ng/ml
Diazepam	4.122	4193	156468.38	209.2	10011.55	16566	26.9659 ng/ml
	5.945	19251	640.73	87.9	1356.54	29863	27.6401 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	9921	109497.41	68.1	12238.85	17999	29.8097 ng/ml
Diphenhydramine	5.292	15892	427.89	33.1	4515.79	27205	27.6254 ng/ml
Doxylamine	4.529	30365	23709.69	96.9	47502.32	45671	28.2461 ng/ml
EDDP	5.257	832	268.82	43.7	329.78	1525	26.1756 ng/ml
Fentanyl	5.079	442	76.46	69.5	545.13	7352	2.7776 ng/ml
Fluoxetine	5.704	6333	2996.52	9.4	278.23	7973	26.8934 ng/ml
Hydrocodone	3.032	8928	109.25	40.0	68.52	17864	29.3336 ng/ml
Hydromorphone	1.621	10771	323.74	76.5	∞	13257	27.8144 ng/ml
Ketamine	4.042	21014	399.91	37.0	159.58	32520	29.0618 ng/ml
Lamotrigine	4.290	3423	2423.46	77.8	184.61	32520	32.9253 ng/ml
Lorazepam	5.737	48591	1437.35	56.3	349.10	11181	29.2374 ng/ml
Meprobamate	4.906	21836	∞	27.1	1392.99	33109	28.9980 ng/ml
Methadone	5.650	8504	344.37	47.7	274.60	12866	28.8335 ng/ml
Methamphetamine	3.237	11680	644.28	40.3	34.56	16833	28.1064 ng/ml
Metoprolol	4.322	3447	4389.77	93.3	∞	63028	25.9419 ng/ml
Mirtazapine	4.617	9697	6040.07	48.0	3785.45	19711	22.5704 ng/ml
Mitragynine	5.214	1527	3470.31	38.8	1218.52	12866	29.0289 ng/ml
Morphine	1.260	2947	866.58	23.3	4273.74	1115	28.5624 ng/ml
Norbuprenorphine	4.982	212	168.84	80.9	80.70	2491	3.0711 ng/ml
Nordiazepam	5.891	20540	1050.26	59.5	10677.13	21819	27.8417 ng/ml
Norfentanyl	4.084	2702	∞	37.0	152.88	38369	2.8306 ng/ml
Norhydrocodone	3.080	2032	190.28	39.4	134.21	17139	25.1539 ng/ml
Noroxycodone	2.928	6873	108.46	50.0	159.06	8295	29.5213 ng/ml
O-desmethyl-tramadol	3.379	63373	21696.68	6.6	305.97	94167	28.5268 ng/ml
Oxazepam	5.747	57436	939.63	70.2	342.32	72536	29.5436 ng/ml
Oxycodone	2.847	18988	105.62	31.8	86.23	26975	29.6967 ng/ml
Oxymorphone	1.417	11826	295.13	47.8	332.59	14101	28.8205 ng/ml
Phentermine	3.787	4905	544.20	3.9	17.17	16241	29.3447 ng/ml
Promethazine	5.535	9554	∞	27.0	551.29	12426	28.9688 ng/ml
Quetiapine	5.538	8439	2173.28	60.9	5935.15	3875	28.8162 ng/ml
Sertraline	5.780	3399	155.02	89.1	129.43	4475	28.4158 ng/ml
Temazepam	5.808	58992	969.90	29.1	113.00	88362	28.4145 ng/ml
Tramadol	4.242	36809	5380.38	3.4	298.36	63028	28.6989 ng/ml
Trazodone	5.113	7720	∞	77.4	∞	10310	28.5514 ng/ml
Venlafaxine	5.040	19368	753.50	37.1	82.59	31414	27.8421 ng/ml
Zolpidem	4.876	54757	199407.92	30.2	∞	86755	29.2643 ng/ml

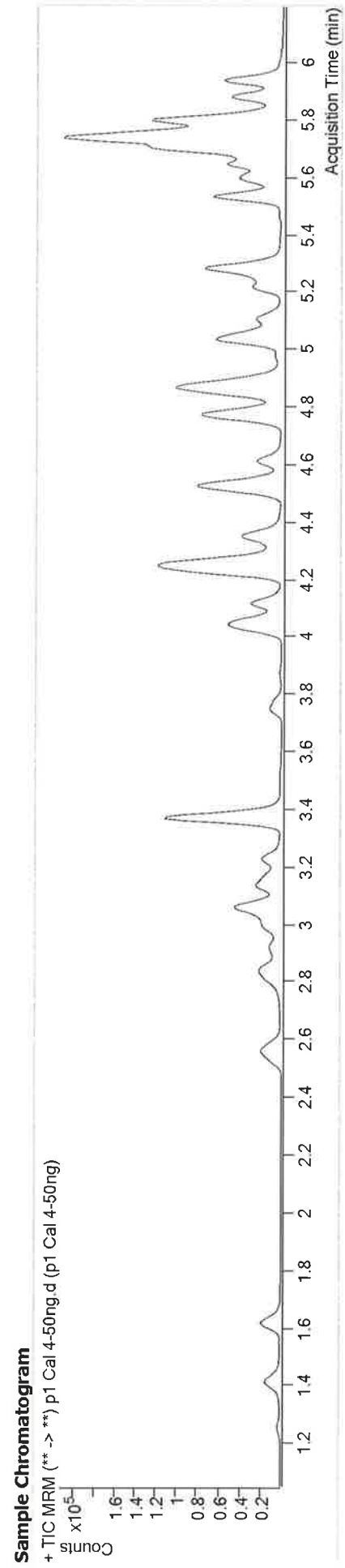


AM #28 Multi-Drug Quant. Results

Batch results
 Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MIDQ.SP\QuantResults\MIDQ P1.batch.bin
 3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901)
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-E12
Injection Volume 1
Acq. Date-Time 3/28/2019 2:50:35 PM
Sample Info.

Data File
Sample p1 Cal 4-50ng.d
Operator Sarah Pickle
Comment



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	6410	893.61	71.4	478.08	41738	4.4516 ng/ml
7-aminodiazepam	4.253	32173	46212.27	79.7	16238.82	27980	49.2210 ng/ml
a-hydroxyalprazolam	5.682	25052	974.59	65.8	973.86	25514	47.1155 ng/ml
alpha-PVP	4.360	38244	3836.52	51.3	344.95	35181	45.6892 ng/ml
Alprazolam	5.759	56371	1100.69	104.3	936.15	35077	42.9706 ng/ml
Amphetamine	3.069	54042	∞	58.3	7012.69	16033	46.4086 ng/ml
Benzoyllecgonine	3.876	2142	232.62	8.6	137.43	1663	42.4805 ng/ml
Buprenorphine	5.762	2588	162.52	16.5	41.78	23163	4.4895 ng/ml
Bupropion	4.782	99242	19599.48	59.5	6859.74	71692	44.2489 ng/ml
Carisoprodol	5.714	70335	∞	57.0	1371.53	74002	46.5861 ng/ml
Citalopram	5.222	23387	1241.68	39.9	761.93	20967	42.9214 ng/ml
Clonazepam	5.595	35096	3745.17	34.8	250.24	12853	47.4363 ng/ml
Cocaine	4.259	43685	91495.74	43.6	26578.36	85526	45.2633 ng/ml
Codeine	2.590	9062	12934.34	102.5	15906.99	8253	46.8170 ng/ml
Cyclobenzaprine	5.618	22279	290.49	10.2	586.09	18829	43.9561 ng/ml
Dextromethorphan	5.265	15452	364.86	79.9	3187.18	15312	44.7501 ng/ml
Dextroproprian	4.122	12249	9546.15	204.4	3601.38	28610	44.4319 ng/ml
Diazepam	5.945	40590	2338.89	84.8	814.64	36931	46.8415 ng/ml



AM #28 Multi-Drug Quant. Results

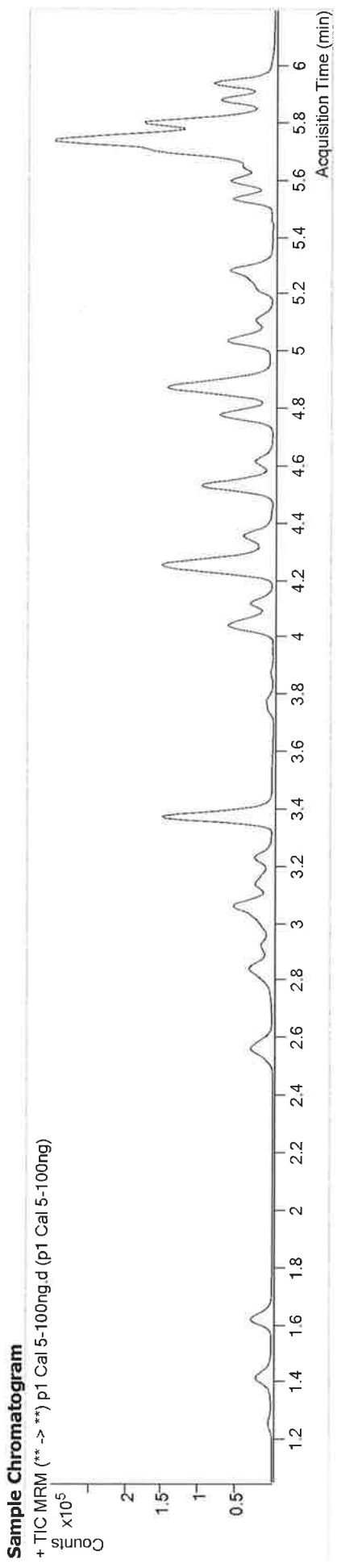
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	22827	158.64	67.6	49417.58	25552	48.3690 ng/ml
Diphenhydramine	5.292	68997	12011.12	34.5	16209.51	74113	43.0312 ng/ml
Doxylamine	4.529	87841	25630.93	96.9	38622.77	80842	45.5763 ng/ml
EDDP	5.251	5213	273.26	38.6	722.16	5706	42.4257 ng/ml
Fentanyl	5.079	2119	10680.80	74.4	1979.57	22363	4.3500 ng/ml
Fluoxetine	5.704	32181	9363.18	9.6	6333.19	24305	43.3891 ng/ml
Hydrocodone	3.025	21203	386.05	39.1	138.51	26289	47.2237 ng/ml
Hydrocodone	1.621	23465	∞	74.9	427.68	17513	45.7338 ng/ml
Ketamine	4.042	47898	122692.32	36.9	236.98	46091	46.6915 ng/ml
Lamotrigine	4.290	6529	1530.77	80.1	1869.06	46091	44.0880 ng/ml
Lorazepam	5.737	80428	∞	57.5	224.33	12853	41.9810 ng/ml
Meprobamate	4.906	39520	10785.40	27.2	2411.43	36324	47.8639 ng/ml
Methadone	5.650	38844	742.36	52.4	1451.29	37548	44.2552 ng/ml
Methamphetamine	3.237	31484	73.03	40.7	768.24	26713	47.7877 ng/ml
Metoprolol	4.322	9755	16937.31	93.4	∞	100072	47.0620 ng/ml
Mirtazapine	4.610	39637	16619.04	47.7	1426.94	35181	54.8275 ng/ml
Mitragynine	5.214	7250	17773.75	37.0	4031.40	37548	47.1415 ng/ml
Morphine	1.260	5969	3958.86	23.4	3778.23	1386	46.1617 ng/ml
Norbuprenorphine	4.988	784	229.65	89.4	250.29	6481	4.4804 ng/ml
Nordiazepam	5.891	42201	9972.78	56.9	1248.11	26329	47.0471 ng/ml
Norfentanyl	4.084	6945	2793.51	37.8	368.31	63189	4.3879 ng/ml
Norhydrocodone	3.080	6382	152.50	43.1	467.32	26761	49.1599 ng/ml
Noroxycodone	2.928	16058	106.73	50.5	198.00	11920	47.9944 ng/ml
O-desmethyl-tramadol	3.379	143978	45087.35	6.6	10517.75	134272	45.1702 ng/ml
Oxazepam	5.747	98837	∞	70.2	655.46	77964	47.3642 ng/ml
Oxycodone	2.847	43098	290.37	32.3	541.14	38416	47.3506 ng/ml
Oxymorphone	1.417	23731	776.11	48.4	335.91	17835	45.6402 ng/ml
Phentermine	3.787	13899	1436.29	4.0	77.23	28585	47.2812 ng/ml
Promethazine	5.535	46097	1263.89	28.2	1669.27	37764	45.7509 ng/ml
Quetiapine	5.538	30330	8706.18	60.0	64343.73	8607	46.2074 ng/ml
Sertraline	5.780	16196	677.54	89.4	1147.79	13078	45.9466 ng/ml
Temazepam	5.808	110818	4023.93	29.0	839.85	101536	46.2828 ng/ml
Tramadol	4.242	94919	12768.93	3.5	803.77	100072	46.7146 ng/ml
Trazodone	5.113	29658	29819.27	78.5	∞	25947	43.2408 ng/ml
Venlafaxine	5.040	57451	796.88	37.5	920.49	58276	43.5311 ng/ml
Zolpidem	4.876	116784	643349.59	31.4	20892.47	117742	45.9211 ng/ml



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
Calibration Last Update 3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901)
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-D12
Injection Volume 1
Acq. Date-Time 3/28/2019 3:01:05 PM
Sample Info. p1 Cal 5-100ng.d
 p1 Cal 5-100ng
 Sarah Pickle



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	10883	981.73	69.7	385.22	34061	9.2264 ng/ml
7-aminoclonazepam	4.253	57282	3007.46	81.8	11413.17	26082	94.2740 ng/ml
a-hydroxyalprazolam	5.682	47646	457.43	62.8	1261.07	23491	97.2331 ng/ml
alpha-PVP	4.366	47912	∞	52.1	7128.97	22444	89.2769 ng/ml
Alprazolam	5.759	107255	2311.59	102.7	1815.10	32632	85.7483 ng/ml
Amphetamine	3.069	68305	4230.55	58.5	∞	10143	92.5899 ng/ml
Benzoylcegonine	3.876	4306	2925.22	7.7	769.99	1708	83.4708 ng/ml
Buprenorphine	5.762	2242	159.74	17.7	274.41	10189	8.8865 ng/ml
Bupropion	4.782	105017	21462.17	59.8	1197.44	36788	90.0591 ng/ml
Carisoprodol	5.714	132525	3715.28	57.0	1673.86	69240	93.7856 ng/ml
Citalopram	5.222	24101	4398.47	40.1	2734.31	10573	85.7704 ng/ml
Clonazepam	5.602	71443	17468.04	35.2	319.12	12238	101.5858 ng/ml
Cocaine	4.266	68004	39331.96	45.3	109811.82	67748	87.4804 ng/ml
Codeine	2.590	14636	8560.41	104.2	10455.51	6990	88.4107 ng/ml
Cyclobenzaprine	5.618	20911	4185.83	10.4	212.94	8544	90.3204 ng/ml
Dextromethorphan	5.265	14746	11495.74	80.2	2004.89	7140	91.0640 ng/ml
Dextropropfan	4.122	16389	2913.41	208.9	12410.37	19650	84.9425 ng/ml
Diazepam	5.945	71650	7037.06	86.8	9120.95	32605	93.2505 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	38541	58607.94	67.8	40629.70	21567	96.8461 ng/ml
Diphenhydramine	5.292	68393	7111.41	34.3	723.31	35343	87.6348 ng/ml
Doxylamine	4.535	115723	367.64	98.2	19677.48	53434	89.9244 ng/ml
EDDP	5.257	17881	677.78	41.0	401.51	9164	88.2973 ng/ml
Fentanyl	5.079	1877	285.18	76.0	3147.77	9692	8.8479 ng/ml
Fluoxetine	5.704	26729	30024.46	9.5	126.95	10006	85.3304 ng/ml
Hydrocodone	3.025	33054	225.38	39.1	163.93	20575	93.8786 ng/ml
Hydromorphone	1.628	41974	886.97	74.9	∞	15408	92.7663 ng/ml
Ketamine	4.042	78992	9351.50	36.8	2167.34	38173	92.9002 ng/ml
Lamotrigine	4.290	13001	8040.11	76.9	5615.76	38173	105.0875 ng/ml
Lorazepam	5.737	123923	808.75	57.1	909.67	12238	67.7754 ng/ml
Meprobamate	4.906	73521	18669.42	26.7	1406.21	34377	94.1252 ng/ml
Methadone	5.650	35519	4399.17	53.4	709.28	18020	82.9251 ng/ml
Methamphetamine	3.237	44066	126.87	41.2	545.18	19130	93.4651 ng/ml
Metoprolol	4.329	13270	∞	94.1	∞	71151	91.0074 ng/ml
Mirtazapine	4.617	40452	34015.47	47.5	7987.89	22444	89.1692 ng/ml
Mitragynine	5.214	6238	19443.71	37.7	4961.08	18020	84.4232 ng/ml
Morphine	1.260	11283	7532.92	23.5	3976.28	1310	91.6112 ng/ml
Norbuprenorphine	4.988	722	75.45	90.9	62.65	3093	8.8839 ng/ml
Nordiazepam	5.891	74530	1423.49	57.2	651.73	23179	93.8687 ng/ml
Norfentanyl	4.084	10486	9001.87	37.7	∞	44633	9.3200 ng/ml
Norhydrocodone	3.080	10552	262.44	43.8	198.84	20881	102.5845 ng/ml
Noroxycodone	2.928	25981	487.72	51.0	321.33	9772	94.7248 ng/ml
O-desmethyl-tramadol	3.379	252357	147747.10	6.5	4781.59	117064	90.3291 ng/ml
Oxazepam	5.747	169070	6416.38	66.3	∞	63861	99.0300 ng/ml
Oxycodone	2.847	70305	163.70	33.3	85.54	32149	92.3293 ng/ml
Oxymorphone	1.417	41321	554.55	47.6	358.23	15229	92.9185 ng/ml
Phentermine	3.787	18688	3080.40	4.0	82.12	19114	95.1235 ng/ml
Promethazine	5.535	40385	1281.75	28.8	∞	16720	90.1279 ng/ml
Quetiapine	5.538	33912	804.76	60.0	16214.30	4603	95.8734 ng/ml
Sertraline	5.780	13292	318.13	94.0	852.07	5367	91.2684 ng/ml
Temazepam	5.808	203559	6666.00	29.5	1223.83	93240	92.3142 ng/ml
Tramadol	4.242	136007	14783.81	3.5	347.81	71151	94.3141 ng/ml
Trazodone	5.113	30658	167377.01	77.8	7883.21	12913	89.1226 ng/ml
Venlafaxine	5.040	77477	1145.91	36.5	1153.74	37993	88.2792 ng/ml
Zolpidem	4.876	199992	∞	31.8	8133.45	100226	92.2648 ng/ml

TS

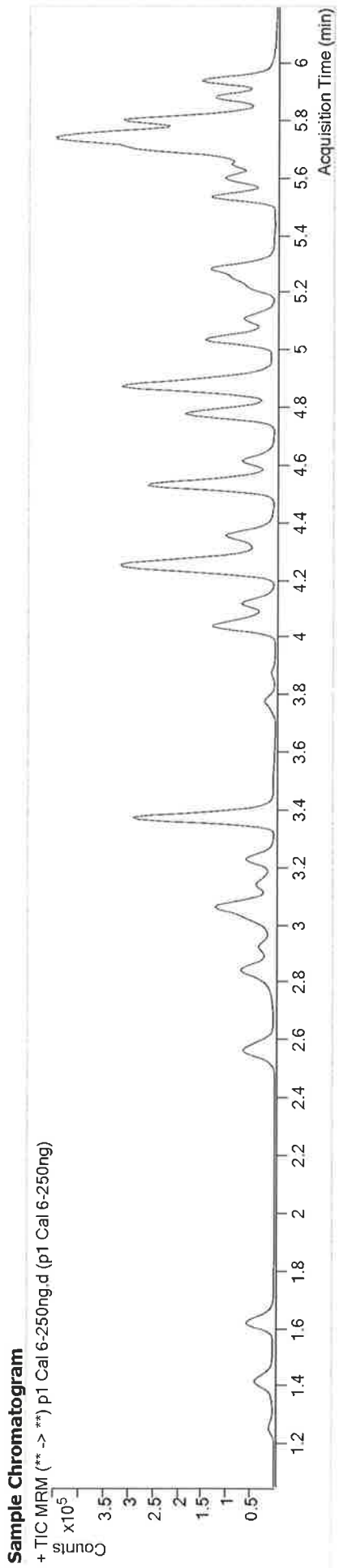
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AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin 3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 6-250ng.d
Type Cal **Sample** p1 Cal 6-250ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Sarah Pickle
Sample Position P1-C12
Injection Volume 1
Acq. Date-Time 3/28/2019 3:11:33 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	27707	1257.82	70.2	∞	35909	22.2344 ng/ml
7-aminodiazepam	4.253	116169	21035.30	82.6	10190.65	22553	221.4956 ng/ml
a-hydroxylprazolam	5.682	97610	2348.02	66.8	798.96	20854	224.2810 ng/ml
alpha-PVP	4.360	142057	64711.61	51.7	7700.54	26587	222.7577 ng/ml
Alprazolam	5.759	236958	3022.81	102.6	4696.44	28846	211.2476 ng/ml
Amphetamine	3.069	171443	6095.59	57.0	4473.61	11199	210.3278 ng/ml
Benzoyllecgonine	3.876	10716	3374.62	7.7	2170.95	1726	206.1265 ng/ml
Buprenorphine	5.762	5889	911.65	16.1	185.40	10843	21.9990 ng/ml
Bupropion	4.782	295897	78746.14	59.2	30981.25	42839	216.3155 ng/ml
Carisoprodol	5.714	274554	6273.58	57.6	4329.22	60497	222.3383 ng/ml
Citalopram	5.222	63830	7054.89	41.5	20721.95	11206	211.5295 ng/ml
Clonazepam	5.602	143258	33027.80	34.9	5556.14	10264	243.0760 ng/ml
Cocaine	4.266	181629	∞	45.5	30859.19	73752	212.4140 ng/ml
Codeine	2.590	35389	446.08	99.3	15763.17	6900	215.2100 ng/ml
Cyclobenzaprine	5.618	54242	∞	10.6	972.97	9117	218.7325 ng/ml
Dextromethorphan	5.265	38786	212.10	79.7	376.67	7774	219.3019 ng/ml
Dextroproprian	4.122	44925	30078.53	205.2	46587.30	21157	213.6216 ng/ml
Diazepam	5.945	158945	27851.42	87.3	16312.31	30291	222.1081 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	92843	51173.59	68.1	38779.59	21647	232.5536 ng/ml
Diphenhydramine	5.292	181942	15938.15	34.6	19551.83	38860	209.6483 ng/ml
Doxylamine	4.529	341018	43364.27	97.0	87483.29	64491	218.2278 ng/ml
EDDP	5.257	70882	4894.81	41.3	417.32	15029	210.5409 ng/ml
Fentanyl	5.086	5104	2275.35	74.6	8559.17	10447	22.2542 ng/ml
Fluoxetine	5.704	67254	2191.07	9.6	1474.66	10322	205.0102 ng/ml
Hydrocodone	3.025	83992	∞	38.7	∞	21640	226.5550 ng/ml
Hydromorphone	1.628	93780	813.02	75.0	980.64	14277	223.3829 ng/ml
Ketamine	4.042	202649	37379.61	37.2	3915.54	40539	224.3140 ng/ml
Lamotrigine	4.290	27584	26488.76	82.9	8717.44	40539	209.2947 ng/ml
Lorazepam	5.737	188378	2897.03	56.5	827.45	10264	122.6265 ng/ml
Meprobamate	4.906	144211	52251.86	27.4	∞	28652	221.5693 ng/ml
Methadone	5.650	95796	5197.71	52.2	11840.30	18957	210.1894 ng/ml
Methamphetamine	3.237	113031	∞	41.0	2907.53	20211	227.0186 ng/ml
Metoprolol	4.322	37791	34719.92	94.6	∞	81596	227.5589 ng/ml
Mirtazapine	4.617	112804	62716.61	47.1	17545.25	26587	213.1999 ng/ml
Mitragynine	5.214	17008	20522.52	37.8	8348.17	18957	218.6021 ng/ml
Morphine	1.260	24900	914.16	23.7	13275.33	1165	226.4969 ng/ml
Norbuprenorphine	4.988	1839	1288.71	100.9	1252.87	3483	20.4090 ng/ml
Nordiazepam	5.891	153318	4379.27	57.8	19182.87	20167	221.2457 ng/ml
Norfentanyl	4.084	30985	21413.38	37.9	2784.09	53429	22.9283 ng/ml
Norhydrocodone	3.080	42203	732.76	40.7	292.76	23958	354.0645 ng/ml
Noroxycodone	2.928	60608	580.01	50.5	230.14	9753	221.4274 ng/ml
O-desmethyl-tramadol	3.379	601519	90628.87	6.6	8944.69	113593	221.1936 ng/ml
Oxazepam	5.740	251923	2769.21	70.2	3715.06	43740	215.5638 ng/ml
Oxycodone	2.847	170259	187.51	33.0	2084.78	32221	223.1435 ng/ml
Oxymorphone	1.417	89334	322.15	48.2	1896.98	14192	215.3767 ng/ml
Phentermine	3.787	50351	4801.62	4.0	141.56	21574	227.1423 ng/ml
Promethazine	5.535	106604	18807.55	28.4	1429.95	17925	221.3277 ng/ml
Quetiapine	5.538	97735	683.50	59.8	54415.14	5515	229.7203 ng/ml
Sertraline	5.780	32909	344.89	90.0	1003.57	5475	220.6654 ng/ml
Temazepam	5.808	433977	6411.89	29.3	727.36	81999	223.4089 ng/ml
Tramadol	4.242	372247	150374.25	3.6	335.09	81596	225.3232 ng/ml
Trazodone	5.113	87294	149504.43	78.4	82464.81	14992	217.6181 ng/ml
Venlafaxine	5.040	218883	29267.38	38.2	1309.60	44874	208.8603 ng/ml
Zolpidem	4.876	522058	58994.63	30.5	202702.26	105130	229.4367 ng/ml

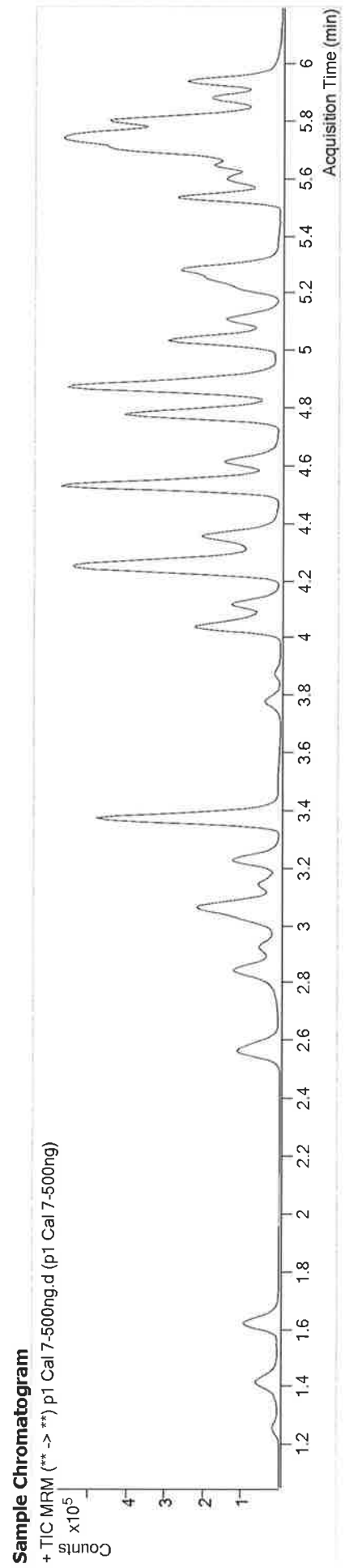


AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin

3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 7-500ng.d
Type Cal **Sample** p1 Cal 7-500ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Sarah Pickle
Sample Position P1-B12 **Comment**
Injection Volume 1
Acq. Date-Time 3/28/2019 3:22:03 PM



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	53916	1929.85	70.5	5199.26	27647	56.1464 ng/ml
7-aminoclonazepam	4.253	195322	∞	80.1	∞	16709	503.0175 ng/ml
a-hydroxyalprazolam	5.682	150431	3673.45	66.1	1111.41	13434	536.4506 ng/ml
alpha-PVP	4.360	306559	75151.48	51.2	48826.52	23308	547.6555 ng/ml
Alprazolam	5.759	397546	∞	102.6	3411.99	19082	532.6336 ng/ml
Amphetamine	3.069	318669	8084.05	57.4	17053.22	9288	471.2591 ng/ml
Benzoylcegonine	3.876	22057	37552.50	7.7	5894.18	1433	511.6172 ng/ml
Buprenorphine	5.762	13086	1660.26	16.5	376.53	9510	55.8053 ng/ml
Bupropion	4.782	667791	276996.02	59.3	49560.16	39113	533.0517 ng/ml
Carisoprodol	5.714	434407	21676.12	57.8	∞	39370	540.5294 ng/ml
Citalopram	5.222	138647	3885.46	41.8	∞	10212	501.6471 ng/ml
Clonazepam	5.595	191449	18409.58	35.7	∞	6459	516.3704 ng/ml
Cocaine	4.266	358091	229646.51	44.3	135745.28	58206	528.3549 ng/ml
Codeine	2.590	61962	22652.41	99.9	12361.21	4863	533.2315 ng/ml
Cyclobenzaprine	5.618	116082	∞	10.5	293.32	7590	561.3607 ng/ml
Dextromethorphan	5.265	80565	7257.77	79.6	9457.06	6352	556.7203 ng/ml
Dextropropphan	4.122	93172	26190.40	204.2	139805.23	17953	519.6373 ng/ml
Diazepam	5.945	280079	6063.97	86.6	6783.17	21867	541.5715 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	170656	49383.67	68.2	46133.75	17315	534.5332 ng/ml
Diphenhydramine	5.292	382871	36060.63	34.4	33583.73	32246	529.0890 ng/ml
Doxylamine	4.529	770718	∞	97.3	103838.27	59187	536.0608 ng/ml
EDDP	5.257	177722	10800.94	41.8	5864.06	15048	524.1487 ng/ml
Fentanyl	5.086	11030	1688.15	72.2	11373.61	8972	55.9332 ng/ml
Fluoxetine	5.704	138574	38741.22	9.6	∞	8345	519.1608 ng/ml
Hydrocodone	3.025	155296	∞	40.3	254.00	17619	514.2436 ng/ml
Hydromorphone	1.628	164044	1502.94	76.3	1726.33	10138	549.9627 ng/ml
Ketamine	4.042	393516	101641.16	36.8	14969.79	32188	548.4860 ng/ml
Lamotrigine	4.290	50669	41230.58	80.0	41994.95	32188	483.3345 ng/ml
Lorazepam	5.730	228352	3367.96	56.5	503.95	6459	235.9709 ng/ml
Meprobamate	4.906	221187	142095.33	27.1	618.69	19047	511.2616 ng/ml
Methadone	5.650	208076	49423.57	51.5	13032.84	16444	524.0023 ng/ml
Methamphetamine	3.237	246070	5810.72	40.9	9425.67	18323	545.2478 ng/ml
Metoprolol	4.322	79231	106812.75	93.9	∞	67042	582.3028 ng/ml
Mirtazapine	4.617	244806	142510.50	47.6	2890.75	23308	531.3604 ng/ml
Mitragynine	5.214	39101	97856.95	38.1	26418.56	16444	579.1710 ng/ml
Morphine	1.260	43044	527.65	23.2	25401.87	854	532.8674 ng/ml
Norbuprenorphine	4.988	4080	1546.30	98.3	3334.26	2920	54.4152 ng/ml
Nordiazepam	5.891	231006	16878.62	57.7	15458.71	12556	534.6958 ng/ml
Norfentanyl	4.084	67118	∞	38.4	2257.12	45420	58.3426 ng/ml
Norhydrocodone	3.080	89489	∞	41.4	∞	19281	930.5422 ng/ml
Noroxycodone	2.928	105393	∞	51.7	∞	7123	527.2249 ng/ml
O-desmethyl-tramadol	3.379	1097301	128709.83	6.7	10971.12	83805	546.2284 ng/ml
Oxazepam	5.740	296375	3102.64	69.5	1524.59	21223	522.8068 ng/ml
Oxycodone	2.847	314769	∞	32.2	3602.54	25035	531.0030 ng/ml
Oxymorphone	1.417	158809	1842.84	48.0	1244.38	9541	569.2675 ng/ml
Phentermine	3.787	103768	7078.20	3.9	1195.29	18567	544.0016 ng/ml
Promethazine	5.535	228013	44407.93	29.3	43839.94	15538	545.5251 ng/ml
Quetiapine	5.538	209482	1135.06	60.6	33199.39	5039	537.9992 ng/ml
Setraline	5.780	67305	409.47	89.8	398.37	4476	551.0833 ng/ml
Temazepam	5.808	704835	6300.26	29.3	1947.75	54087	549.7057 ng/ml
Tramadol	4.242	747935	67543.71	3.6	300.44	67042	551.2542 ng/ml
Trazodone	5.113	197716	476801.16	79.3	205757.35	13258	556.3443 ng/ml
Venlafaxine	5.040	488490	80096.16	37.9	4439.45	39921	521.4640 ng/ml
Zolpidem	4.876	1012043	114337.92	31.6	188672.68	86234	542.0778 ng/ml

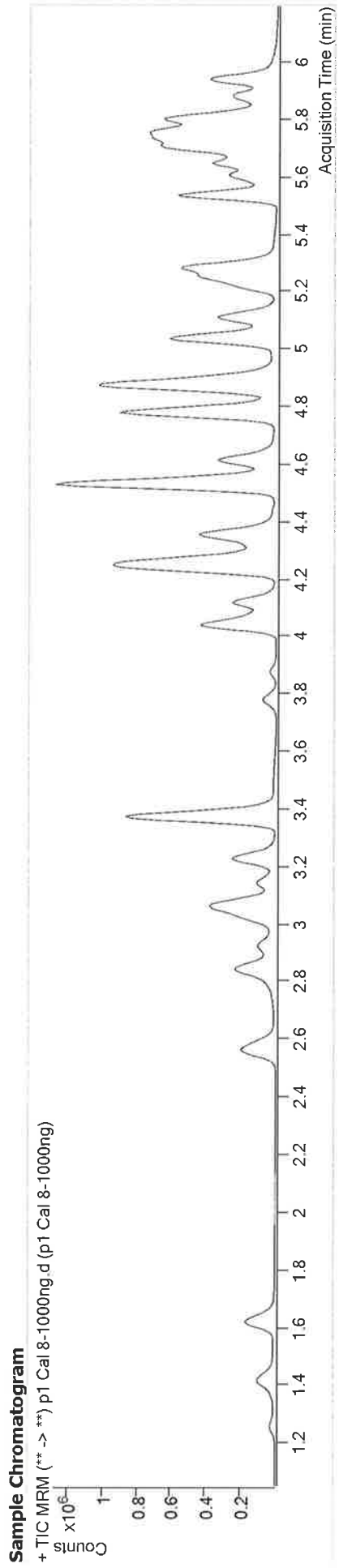
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032819 MDQ SP\QuantResults\MDQ P1.batch.bin
3/29/2019 2:37:11 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 8-1000ng.d
Type Cal **Sample** p1 Cal 8-1000ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Sarah Pickle
Sample Position P1-A12
Injection Volume 1
Acq. Date-Time 3/28/2019 3:32:33 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	114261	23860.57	69.3	3013.01	30381	108.2506 ng/ml
7-aminoclonazepam	4.253	272673	20295.80	79.4	13597.84	14567	805.6487 ng/ml
a-hydroxyalprazolam	5.682	226001	1859.22	64.4	1797.80	11300	958.0489 ng/ml
alpha-PVP	4.360	681259	174117.89	50.8	48504.77	25623	1106.6028 ng/ml
Alprazolam	5.766	642847	2238.48	101.6	4931.70	16016	1024.2334 ng/ml
Amphetamine	3.069	567068	19108.99	57.6	29922.94	9916	785.3491 ng/ml
Benzoyllecgonine	3.876	50014	15689.31	8.0	8865.86	1582	1050.9425 ng/ml
Buprenorphine	5.769	23149	1267.26	17.2	∞	8632	108.8135 ng/ml
Bupropion	4.782	150072	477217.37	59.2	56809.74	46229	1012.5454 ng/ml
Carisoprodol	5.714	639599	17106.17	56.4	5495.37	30653	1022.1425 ng/ml
Citalopram	5.222	298945	1053.73	40.3	6897.07	10454	1054.5653 ng/ml
Clonazepam	5.602	323497	39418.98	35.6	22068.03	6068	928.8714 ng/ml
Cocaine	4.266	718060	∞	44.3	105781.78	60182	1023.2582 ng/ml
Codeine	2.590	109787	385.13	100.2	10710.92	4533	1012.5630 ng/ml
Cyclobenzaprine	5.618	261287	109091.35	10.4	18701.67	8983	1067.2100 ng/ml
Dextromethorphan	5.265	161927	1047.39	79.6	585.37	6588	1078.5050 ng/ml
Dextroproprian	4.122	182515	24390.61	206.4	∞	17648	1033.8025 ng/ml
Diazepam	5.945	491973	5893.06	85.5	8451.08	19561	1063.0621 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	318847	62199.22	68.0	105865.07	19265	897.6498 ng/ml
Diphenhydramine	5.292	806612	96403.37	34.6	5305.19	34960	1026.5459 ng/ml
Doxylamine	4.529	1694780	756343.30	99.9	290760.44	69277	1006.2675 ng/ml
EDDP	5.257	465925	5440.90	41.3	840.23	20018	1031.0395 ng/ml
Fentanyl	5.086	23992	∞	76.0	∞	9789	111.4705 ng/ml
Fluoxetine	5.704	273188	26386.04	9.9	3116.68	8170	1043.2550 ng/ml
Hydrocodone	3.025	309394	1233.38	42.6	250.31	17709	1019.1013 ng/ml
Hydromorphone	1.628	317965	∞	72.1	∞	10226	1056.6411 ng/ml
Ketamine	4.042	801815	550865.27	36.8	18964.22	35591	1010.6680 ng/ml
Lamotrigine	4.290	86888	40016.03	80.1	25819.24	35591	749.2309 ng/ml
Lorazepam	5.737	274916	12524.47	56.4	912.71	6068	302.3212 ng/ml
Meprobamate	4.906	343090	32688.07	26.5	83311.88	14493	1042.2603 ng/ml
Methadone	5.650	443660	18088.05	52.4	18343.05	17751	1033.5021 ng/ml
Methamphetamine	3.231	494182	14073.33	41.2	∞	19869	1009.8700 ng/ml
Metoprolol	4.322	149866	43895.11	97.2	∞	73831	1000.8918 ng/ml
Mirtazapine	4.617	554988	145451.79	47.5	70618.17	25623	1098.3591 ng/ml
Mitragynine	5.214	77659	122944.15	38.4	30905.19	17751	1065.5128 ng/ml
Morphine	1.260	77381	∞	23.5	2127.79	819	998.9185 ng/ml
Norbuprenorphine	4.988	8499	6388.81	95.7	843.83	3119	106.3934 ng/ml
Nordiazepam	5.891	341184	35368.29	57.4	98047.16	9873	1003.9150 ng/ml
Norfentanyl	4.084	157112	67851.56	38.0	12607.54	48735	127.2185 ng/ml
Norhydrocodone	3.080	187951	1591.82	41.7	1697.81	20084	1874.8823 ng/ml
Noroxycodone	2.921	202668	∞	50.5	133.55	7220	1000.1381 ng/ml
O-desmethyl-tramadol	3.379	2144932	521418.40	6.6	34286.11	80839	1106.4204 ng/ml
Oxazepam	5.740	298811	∞	68.7	∞	11950	936.2217 ng/ml
Oxycodone	2.840	632145	∞	32.1	1411.08	26623	1002.7897 ng/ml
Oxymorphone	1.417	289203	∞	48.0	406.98	9722	1017.2543 ng/ml
Phentermine	3.787	201775	2302.86	3.9	1041.12	20660	950.6500 ng/ml
Promethazine	5.535	478726	91906.64	28.7	1505.35	16493	1078.6371 ng/ml
Quetiapine	5.538	463046	39304.54	60.7	94981.72	5843	1024.9371 ng/ml
Setraline	5.780	121021	762.43	91.7	60120.95	4156	1066.8031 ng/ml
Temazepam	5.808	1059457	126248.52	29.1	26133.54	42854	1042.6229 ng/ml
Tramadol	4.242	1490554	107012.90	3.6	19051.66	73831	997.6959 ng/ml
Trazodone	5.113	476845	68242.96	77.4	72263.65	15574	1141.6127 ng/ml
Venlafaxine	5.040	1097190	117064.98	37.0	709.50	45161	1033.7077 ng/ml
Zolpidem	4.876	2013743	110723.45	31.0	497908.02	91529	1016.1163 ng/ml