


















reviewed

BWylee

TS

3/20/2019

Worklist: 3106

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2019-0686	1	145537	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0632	1	145538	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0645	1	145539	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0707	1	145540	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0736	1	145541	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0745	1	145542	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0747	1	145543	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0771	1	145544	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0772	1	145545	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0782	1	145546	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0789	3	145547	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0796	1	145548	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0797	1	145549	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0798	1	145550	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0799	1	145551	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0801	1	145552	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0802	1	145553	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: 03/21/19
Plate lot#: IDP-111-19024

Analyst: Tamara Salazar
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
LCMS-QQQ ID: 069910

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

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 00.5M 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: *G:\TOX\Pocatello\Falco\2019\AM 28\032119 MDQ P1_P2_Urine Val TS*
Batch Name: *P1 wkfst 3106 TS*
- 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.

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COMMENTS:

Curves limited: Curves limited: 7-aminoclonazepam: 5-500, Amphetamine: 5-500, Benzoylcegonine: 10-1000, Dihydrocodeine: 5-500, Lamotrigine: 5-500, Lorazepam: 5-100, Meproobamate: 5-250, Mirtazapine: 25-1000, Norhydrocodone: 5-100, Phentermine: 5-500



Idaho State Police Forensic Services

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

Methanol External Control Solution (Lot: 121218)

100 ul each 1 mg/mL stock solution in 9600 ul MeOH

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

Blood External Control Solution (Lot: WS121218)

50ul of methanol external control solution was added to 9950ul of blood.

Approximately 50ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	177145
Methanol External Control Solution		121218
Prepared:	12/12/18	
Prepared By:	Sarah Pickle	
Expires:	12/12/19	

TS

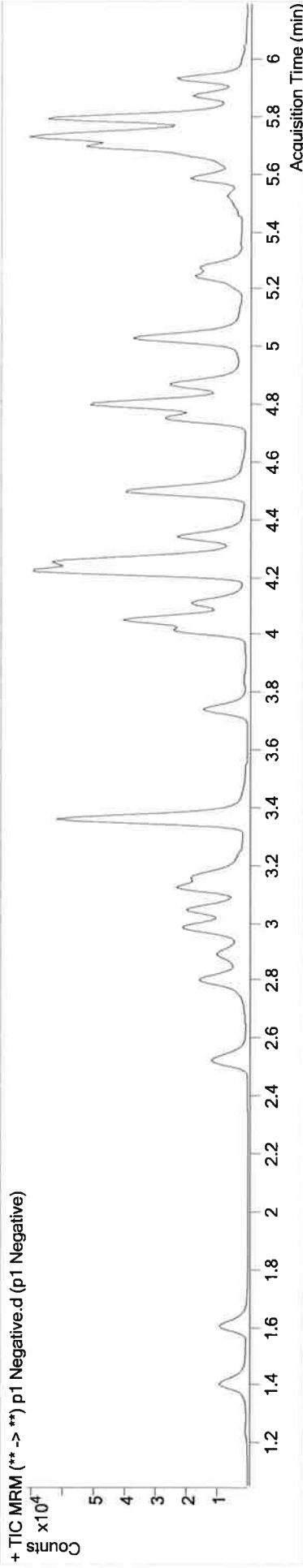


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wk1st 3106 TS.batch.bin
Calibration Last Update 3/25/2019 3:07:59 PM

Instrument	FALCO-LCMS (Property ID 069901)	Data File	p1 Negative.d
Type	Sample	Sample	p1 Negative
Acq. Method	MDQ P1 Combined 011619.m	Operator	Tamara Salazar
Sample Position	P1-E2	Comment	
Injection Volume	1		
Acq. Date-Time	3/22/2019 2:46:54 AM		

Sample Chromatogram



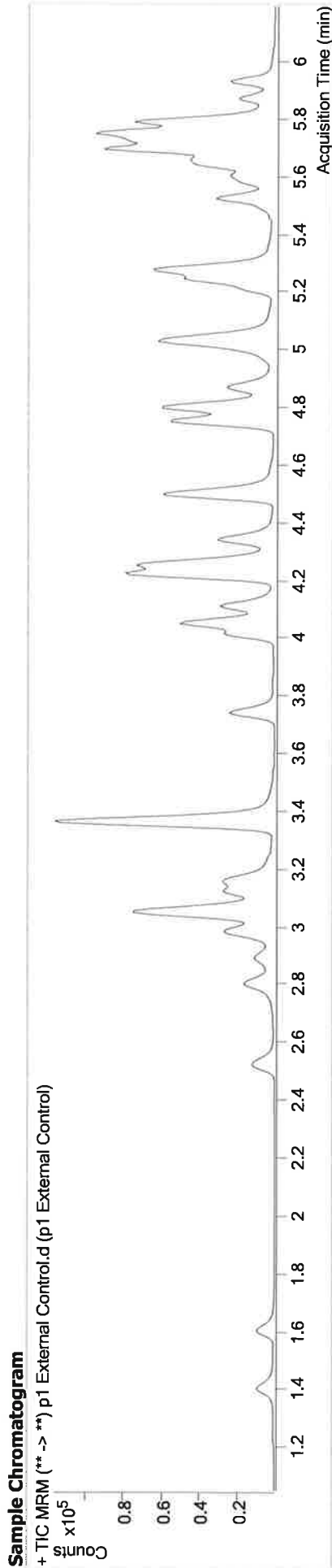
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wklist 3106 TS.batch.bin
Calibration Last Update 3/25/2019 3:07:59 PM

Instrument Type FALCO-LCMS (Property ID 069901) **Data File** p1 External Control.d
Sample MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Injection Volume 1 **Sample Info.** 3/22/2019 3:07:49 AM



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.760	55797	1836.96	101.6	5048.28	36845	46.4524 ng/ml
Amphetamine	3.062	102503	2152.68	57.7	3097.46	33481	47.0389 ng/ml
Fluoxetine	5.705	40067	6847.31	9.9	5594.30	39048	39.6207 ng/ml
O-desmethyl-tramadol	3.373	137906	26320.28	6.6	893.13	147173	43.0554 ng/ml

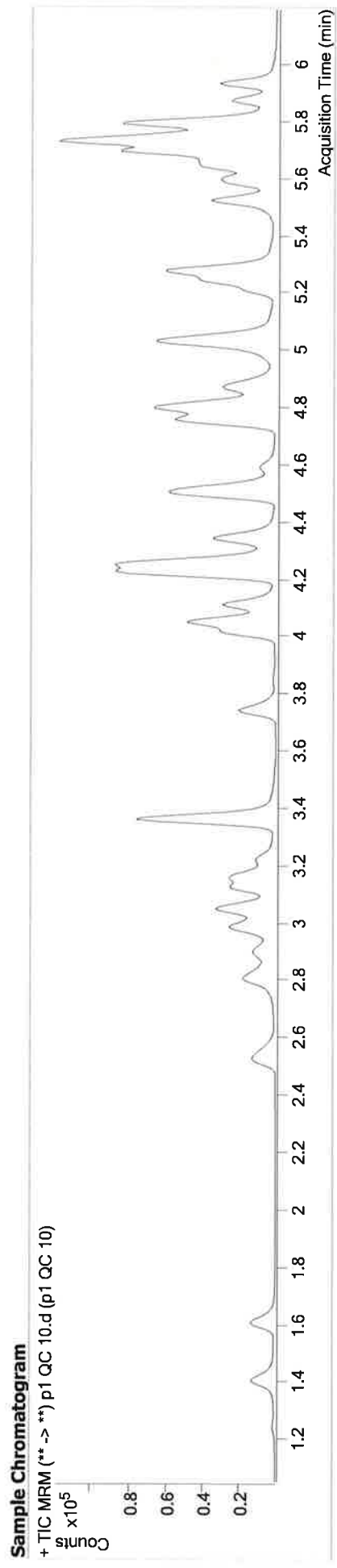
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wklist 3106 TS.batch.bin
Calibration Last Update 3/26/2019 12:43:32 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 QC 10.d
Type QC **Sample** p1 QC 10
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-A2
Injection Volume 1
Acq. Date-Time 3/22/2019 1:12:40 AM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	1497	444.25	73.6	∞	48150	0.9769 ng/ml
7-aminoclonazepam	4.247	8072	456.31	78.9	6428.61	33243	10.4752 ng/ml
a-hydroxyalprazolam	5.683	6494	238.86	63.6	330.21	30027	10.5890 ng/ml
alpha-PVP	4.360	13370	10087.47	52.3	3444.59	58457	10.1405 ng/ml
Alprazolam	5.760	13544	1293.63	103.1	836.37	38501	10.1074 ng/ml
Amphetamine	3.062	20165	23.59	59.1	3362.85	27853	10.5644 ng/ml
Benzoyllecgonine	3.870	608	11.23	8.3	85.35	2020	8.5936 ng/ml
Buprenorphine	5.681	710	88.80	17.5	61.11	26488	1.1128 ng/ml
Bupropion	4.776	34387	3902.78	59.6	1006.79	108204	10.9561 ng/ml
Carisoprodol	5.708	17827	1530.93	56.4	386.86	87613	10.5469 ng/ml
Citalopram	5.216	6840	311.25	41.3	440.72	26545	10.6942 ng/ml
Clonazepam	5.596	11506	∞	35.5	∞	18020	10.6037 ng/ml
Cocaine	4.259	13540	2753.68	44.2	∞	130297	10.1292 ng/ml
Codeine	2.583	2387	425.46	101.4	360.67	10728	9.7234 ng/ml
Cyclobenzaprine	5.612	6893	14073.24	11.5	223.71	24034	11.9482 ng/ml
Dextromethorphan	5.258	4091	10142.58	79.4	223.09	18128	10.8936 ng/ml
Dextrophan	4.115	4633	1424.61	198.2	710.33	47819	11.0791 ng/ml
Diazepam	5.945	9190	515.33	86.5	461.40	39846	10.6436 ng/ml

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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	5464	7594.37	68.2	235.96	29202	10.2135 ng/ml
Diphenhydramine	5.286	20335	1404.09	34.3	645.69	94539	11.1564 ng/ml
Doxylamine	4.522	29222	2079.45	98.6	2501.30	128093	10.0787 ng/ml
EDDP	5.251	9612	325.79	41.2	395.34	50525	9.3991 ng/ml
Fentanyl	5.066	663	101.40	80.4	510.62	27977	1.1919 ng/ml
Fluoxetine	5.705	9899	4121.82	9.7	∞	29118	12.7559 ng/ml
Hydrocodone	3.018	6965	184.00	39.8	122.63	38177	10.8849 ng/ml
Hydromorphone	1.621	7595	1400.77	74.7	521.07	27695	10.0484 ng/ml
Ketamine	4.035	12714	3234.71	36.5	669.92	58992	10.0301 ng/ml
Lamotrigine	4.277	1568	368.58	75.8	1388.57	58992	10.3421 ng/ml
Lorazepam	5.731	27764	1140.86	56.6	232.20	18020	10.7928 ng/ml
Meprobamate	4.899	12459	5644.99	27.9	315.08	54853	10.3901 ng/ml
Methadone	5.650	11093	337.15	55.8	433.17	46733	11.5332 ng/ml
Methamphetamine	3.231	13704	∞	41.5	522.45	51884	10.3487 ng/ml
Metoprolol	4.322	3340	4318.22	92.7	1071.04	144408	10.2183 ng/ml
Mitragynine	5.201	1797	1163.53	37.7	1297.69	46733	9.2526 ng/ml
Morphine	1.253	1541	2497.63	24.4	314.42	1821	9.0754 ng/ml
Norbuprenorphine	4.982	253	1163.10	94.6	134.67	8238	1.1869 ng/ml
Nordiazepam	5.885	9192	3132.16	55.9	949.58	28245	10.0635 ng/ml
Norfentanyl	4.084	2371	830.51	40.0	94.19	100123	1.0172 ng/ml
Norhydrocodone	3.073	1292	53.93	46.1	86.42	45857	8.5090 ng/ml
Noroxycodone	2.921	7693	111.95	49.2	173.51	26051	10.6936 ng/ml
O-desmethyl-tramadol	3.373	34714	4658.51	6.6	920.68	151651	10.3367 ng/ml
Oxazepam	5.741	29320	375.33	72.9	49.79	110204	10.5209 ng/ml
Oxycodone	2.833	12222	117.14	31.9	∞	50700	10.3847 ng/ml
Oxymorphone	1.410	8719	425.71	48.2	214.43	30749	10.1300 ng/ml
Phentermine	3.781	5310	313.09	4.4	23.82	50900	10.3947 ng/ml
Promethazine	5.529	13026	5010.12	29.1	526.12	43079	12.4745 ng/ml
Quetiapine	5.511	8643	637.16	58.0	3090.36	10262	11.9637 ng/ml
Sertraline	5.774	5244	252.65	89.9	295.65	16217	12.9196 ng/ml
Temazepam	5.801	27072	422.87	30.9	78.44	120812	10.1356 ng/ml
Trazodone	4.242	30822	3554.04	3.5	105.86	144408	10.6916 ng/ml
Trazodone	5.052	8077	543.15	80.7	40287.31	30385	11.0267 ng/ml
Venlafaxine	5.033	21481	2994.61	37.0	200.62	101287	10.3986 ng/ml
Zolpidem	4.828	27138	2135.71	31.2	1510.00	129412	10.2130 ng/ml

TS



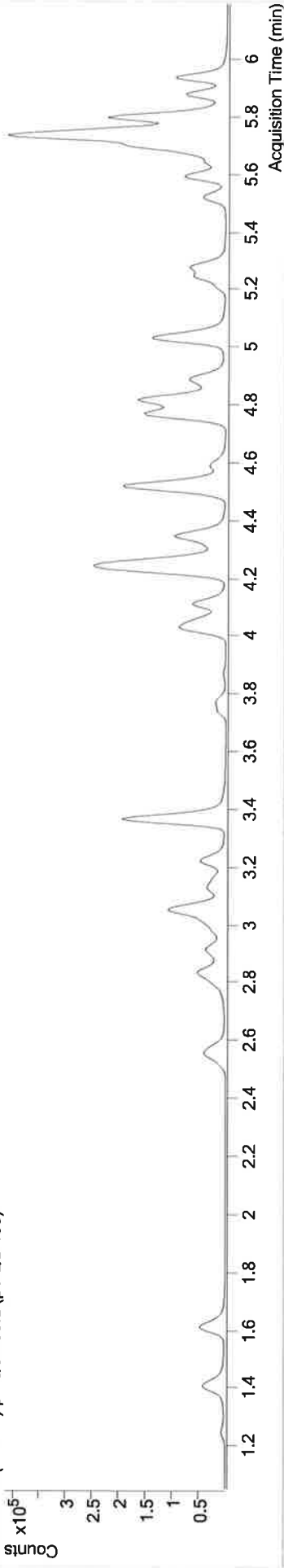
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106 TS.batch.bin
Calibration Last Update 3/25/2019 3:07:59 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** Tamara Salazar
Sample Position P1-B2
Injection Volume 1
Acq. Date-Time 3/22/2019 1:33:37 AM
Sample Info.

Sample Chromatogram

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	13911	582.70	70.5	774.61	47428	9.2834 ng/ml
7-aminoclonazepam	4.240	72509	875.44	78.5	15001.17	31270	106.9496 ng/ml
a-hydroxylprazolam	5.683	56895	1264.19	66.3	2167.84	28418	103.2855 ng/ml
alpha-PVP	4.353	112366	42157.78	52.0	2353.94	50745	101.5278 ng/ml
Alprazolam	5.760	122220	∞	101.5	1546.62	36212	104.6235 ng/ml
Amphetamine	3.062	148702	2769.13	57.1	6688.97	21799	105.7100 ng/ml
Benzoylcegonine	3.870	5509	1455.21	7.7	381.72	1959	100.3609 ng/ml
Buprenorphine	5.681	2139	203.23	15.7	∞	9707	9.6167 ng/ml
Bupropion	4.776	221344	25301.15	59.0	7319.09	74346	109.6278 ng/ml
Carisoprodol	5.708	154792	797.46	57.5	4440.01	80881	102.0361 ng/ml
Citalopram	5.216	23399	857.50	41.4	547.42	10327	99.5234 ng/ml
Clonazepam	5.596	99247	59204.31	35.1	6054.20	16041	109.9979 ng/ml
Cocaine	4.259	120711	26042.96	43.9	25208.48	117525	101.5474 ng/ml
Codeine	2.583	21496	7244.94	101.9	21567.24	9938	106.8532 ng/ml
Cyclobenzaprine	5.612	15114	27093.55	10.3	∞	6436	99.0196 ng/ml
Dextromethorphan	5.258	11451	16259.77	78.6	∞	6105	91.7408 ng/ml
Dextropropfan	4.115	33288	47473.30	205.4	3610.15	36766	107.8704 ng/ml
Diazepam	5.945	83909	1180.75	87.1	2784.58	37510	106.5757 ng/ml

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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	50983	∞	69.1	∞	28198	103.2427 ng/ml
Diphenhydramine	5.286	70744	3805.35	34.2	4418.48	36216	103.2828 ng/ml
Doxylamine	4.522	229905	160067.26	97.9	149796.07	106442	105.3790 ng/ml
EDDP	5.251	56686	6920.54	42.3	1331.36	31026	92.8936 ng/ml
Fentanyl	5.066	1427	275.08	71.6	1390.21	7567	9.3081 ng/ml
Fluoxetine	5.705	19929	887.93	9.8	∞	8312	93.3271 ng/ml
Hydrocodone	3.018	62669	198.68	39.6	463.48	36683	109.9284 ng/ml
Hydromorphone	1.614	68456	2231.30	74.4	1074.06	25778	101.1312 ng/ml
Ketamine	4.035	117001	51324.43	36.4	1757.34	55909	102.7013 ng/ml
Lamotrigine	4.277	13258	3169.93	79.4	82711.10	55909	98.1766 ng/ml
Lorazepam	5.731	185775	9952.29	59.3	411.61	16041	91.4632 ng/ml
Meprobamate	4.899	105914	1593.68	27.4	9589.42	51721	100.6373 ng/ml
Methadone	5.650	32796	3845.93	52.5	2610.34	15653	104.4313 ng/ml
Methamphetamine	3.231	87390	2359.37	40.5	2561.11	37465	98.3648 ng/ml
Metoprolol	4.322	27879	12381.38	94.0	∞	131446	97.0217 ng/ml
Mirtazapine	4.597	38438	1184.04	47.4	12357.19	50745	32.8219 ng/ml
Mitragynine	5.201	4469	18951.00	35.8	3496.33	15653	69.1790 ng/ml
Morphine	1.253	14696	1852.02	24.1	848.23	1802	91.4737 ng/ml
Norbuprenorphine	4.982	737	135.13	96.1	301.85	3258	9.8307 ng/ml
Nordiazepam	5.885	78258	∞	57.9	2506.28	25600	98.9502 ng/ml
Norfentanyl	4.084	20932	610.91	36.7	1200.90	88975	9.7590 ng/ml
Norhydrocodone	3.073	14614	242.85	44.0	363.95	40364	85.5335 ng/ml
Noroxycodone	2.921	64869	∞	50.0	632.55	23812	103.8236 ng/ml
O-desmethyl-tramadol	3.373	326853	60703.25	6.5	1901.74	147143	102.3951 ng/ml
Oxazepam	5.741	226162	4778.65	70.5	373.68	91788	104.0267 ng/ml
Oxycodone	2.833	112933	304.28	33.1	∞	50379	103.4602 ng/ml
Oxymorphone	1.410	78168	∞	48.2	1883.37	28264	101.2860 ng/ml
Phentermine	3.781	38227	4248.21	3.9	88.83	39144	102.2758 ng/ml
Promethazine	5.529	29017	5156.51	28.2	855.45	12129	101.3476 ng/ml
Quetiapine	5.511	32887	4787.50	59.8	3125.09	4435	107.4516 ng/ml
Sertraline	5.774	10376	225.52	93.9	4206.95	4325	98.4272 ng/ml
Temazepam	5.801	242245	3872.83	29.6	1499.37	110758	103.9390 ng/ml
Tramadol	4.235	268090	85285.41	3.5	610.25	131446	107.7762 ng/ml
Trazodone	5.052	23387	682.28	77.3	2075.97	9928	114.3046 ng/ml
Venlafaxine	5.033	173476	58286.28	37.3	2447.30	85823	100.7332 ng/ml
Zolpidem	4.828	249684	44633.87	30.9	3463.42	120300	103.7923 ng/ml

TS

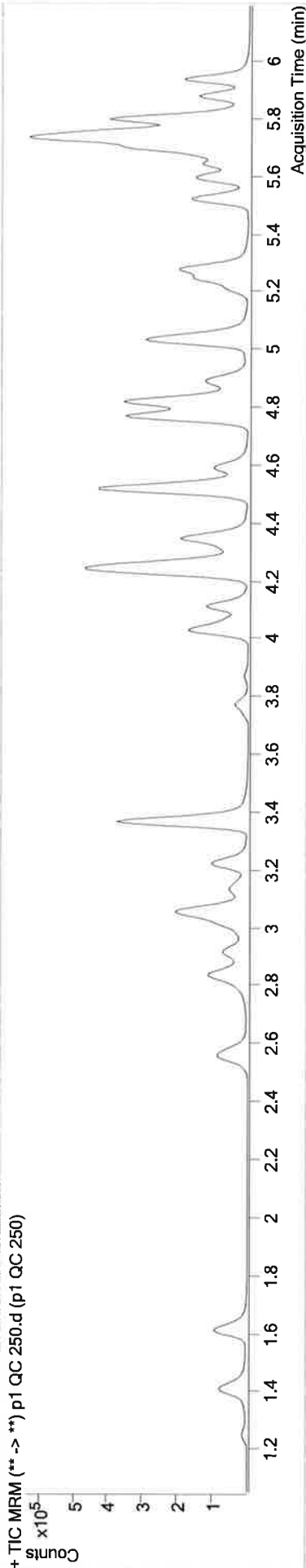


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\0322119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wk1st 3106 TS.batch.bin
Calibration Last Update 3/25/2019 3:07:59 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 QC 250.d
Type QC **Sample** p1 QC 250
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-C2
Injection Volume 1
Acq. Date-Time 3/22/2019 1:54:32 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	33241	1502.64	72.3	4004.66	46223	22.7725 ng/ml
7-aminoclonazepam	4.240	155352	16228.60	79.8	19578.34	29621	242.9245 ng/ml
a-hydroxyalprazolam	5.683	121136	4250.71	64.0	2339.82	25098	249.8873 ng/ml
alpha-PVP	4.353	254809	31534.13	51.8	14139.28	47114	248.5323 ng/ml
Alprazolam	5.760	271066	6934.82	100.6	3977.49	31438	268.6597 ng/ml
Amphetamine	3.062	309711	10728.37	57.5	9221.21	20388	236.3066 ng/ml
Benzoylcegonine	3.870	13743	15474.64	7.9	∞	1966	253.0880 ng/ml
Buprenorphine	5.681	8397	251.09	16.7	3764.29	14742	24.9674 ng/ml
Bupropion	4.776	546899	38709.78	59.5	19582.30	73934	273.6166 ng/ml
Carisoprodol	5.708	311384	1772.21	57.2	1107.72	66922	248.5566 ng/ml
Citalopram	5.216	87693	1899.98	41.0	∞	15647	247.2224 ng/ml
Clonazepam	5.596	195008	8835.10	36.7	2556.87	13687	254.3936 ng/ml
Cocaine	4.259	270361	2141.97	44.1	53355.14	110119	242.9586 ng/ml
Codeine	2.583	48693	2155.04	100.2	1258.87	9187	263.8859 ng/ml
Cyclobenzaprine	5.612	75383	7871.44	10.5	997.77	12941	245.8591 ng/ml
Dextromethorphan	5.258	47501	8518.63	78.8	10328.33	9922	234.4349 ng/ml
Dextrophan	4.115	75827	∞	204.8	72586.23	33879	267.4295 ng/ml
Diazepam	5.945	187350	11540.21	85.8	1300.85	35066	255.0771 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	116674	82965.61	70.4	56620.28	27736	240.8989 ng/ml
Diphenhydramine	5.286	254818	2894.78	34.3	6953.97	53023	254.4533 ng/ml
Doxylamine	4.522	549940	97820.22	97.6	324094.63	104403	258.6836 ng/ml
EDDP	5.251	155622	4878.31	41.4	166037.01	34395	230.4956 ng/ml
Fentanyl	5.066	7146	702.10	72.8	4978.41	14493	24.3009 ng/ml
Fluoxetine	5.705	93623	1700.71	9.7	1076.08	15293	239.1487 ng/ml
Hydrocodone	3.018	138606	891.52	39.8	485.18	34417	260.4353 ng/ml
Hydromorphone	1.614	150488	∞	76.0	∞	23988	239.5088 ng/ml
Ketamine	4.035	267639	63776.65	36.8	3937.29	54010	244.0222 ng/ml
Lamotrigine	4.277	30928	7445.12	79.1	11751.84	54010	238.1329 ng/ml
Lorazepam	5.731	288628	8791.97	59.4	541.13	13687	167.8447 ng/ml
Meprobamate	4.899	215569	∞	27.5	5074.44	47413	224.5018 ng/ml
Methadone	5.650	136494	5655.99	52.2	22861.24	25886	263.3301 ng/ml
Methamphetamine	3.231	196505	7862.50	40.9	5344.53	34904	238.6699 ng/ml
Metoprolol	4.322	63607	44267.46	93.8	5275.68	122882	237.3755 ng/ml
Mirtazapine	4.597	138997	78355.45	48.2	28583.82	47114	165.0093 ng/ml
Mitragynine	5.201	20039	1943.01	38.8	54634.94	25886	187.7209 ng/ml
Morphine	1.253	33304	1102.17	23.8	3736.42	1624	230.7600 ng/ml
Norbuprenorphine	4.982	2796	1823.37	102.4	420.23	4896	25.0941 ng/ml
Nordiazepam	5.885	167630	3390.85	56.7	111082.76	22464	242.2979 ng/ml
Norfentanyl	4.084	49459	36422.85	37.4	1737.54	86114	23.7685 ng/ml
Nefthrocodone	3.073	42719	1046.05	43.0	1046.87	34699	286.0127 ng/ml
Noroxycodone	2.921	133036	∞	50.3	2722.64	21082	241.3360 ng/ml
O-desmethyl-tramadol	3.373	763702	347086.18	6.5	7414.31	140570	250.7833 ng/ml
Oxazepam	5.741	383733	7138.67	69.7	1329.20	65228	249.4796 ng/ml
Oxycodone	2.840	264320	∞	33.2	∞	49460	247.7944 ng/ml
Oxymorphone	1.410	175332	∞	47.8	∞	25804	249.2568 ng/ml
Phentermine	3.781	85312	2406.79	3.9	659.63	36570	245.1416 ng/ml
Promethazine	5.529	147335	8311.31	29.0	13020.09	24262	257.8460 ng/ml
Quetiapine	5.511	120600	23963.61	60.1	13584.79	6485	269.9108 ng/ml
Sertraline	5.774	47035	3676.42	90.3	3801.23	7854	246.2889 ng/ml
Temazepam	5.801	519889	4861.02	28.7	1237.47	99785	248.3855 ng/ml
Tramadol	4.235	597102	49185.73	3.5	∞	122882	257.6794 ng/ml
Trazodone	5.052	99239	10902.42	79.4	9298.04	17831	272.9353 ng/ml
Venlafaxine	5.033	405773	115773.20	37.3	∞	81563	248.2065 ng/ml
Zolpidem	4.828	599635	46042.52	31.5	∞	121575	247.0715 ng/ml

outside curve range TS

outside curve range TS

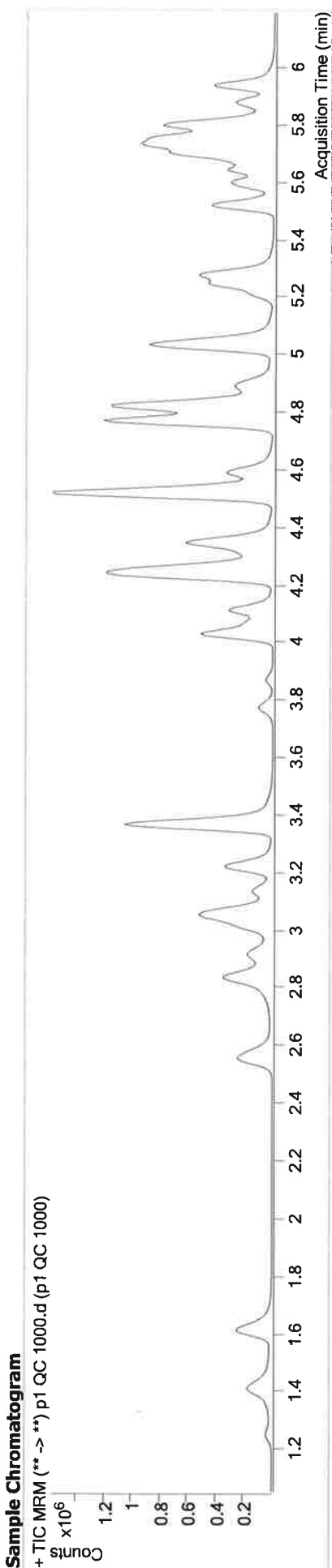
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AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wklist 3106 TS.batch.bin
3/25/2019 3:07:59 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 QC 1000.d
Type QC **Sample** p1 QC 1000
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-D2
Injection Volume 1
Acq. Date-Time 3/22/2019 2:15:28 AM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	132791	10765.63	70.7	3942.22	45365	92.7173 ng/ml
7-aminoclozapepam	4.247	339149	24404.09	79.3	16347.76	22917	686.9444 ng/ml
a-hydroxylprazolam	5.683	284679	1000.45	64.9	1649.90	16781	879.9277 ng/ml
alpha-PVP	4.353	911601	659390.60	51.9	42529.88	42061	997.1352 ng/ml
Alprazolam	5.760	733066	∞	101.5	5976.02	22349	1024.5128 ng/ml
Amphetamine	3.055	834647	23336.01	57.6	41194.37	17218	755.6834 ng/ml
Benzoylcegonine	3.870	64570	27742.88	7.8	2926.77	2232	1054.6575 ng/ml
Buprenorphine	5.681	19590	103245.58	17.8	2817.66	9143	94.1001 ng/ml
Bupropion	4.776	1979015	485220.35	58.6	56639.75	69374	1057.5857 ng/ml
Carisoprodol	5.708	751115	65120.41	57.0	∞	43064	932.6532 ng/ml
Citalopram	5.216	243370	34888.28	41.8	17958.66	11088	970.2128 ng/ml
Clonazepam	5.596	439898	25312.98	35.6	18467.18	9221	853.7321 ng/ml
Cocaine	4.259	878524	708861.34	44.1	210490.42	89203	975.0892 ng/ml
Codeine	2.583	144271	8852.10	99.2	3068.71	7413	972.6839 ng/ml
Cyclobenzaprine	5.612	189309	33211.81	10.4	2903.14	8336	959.0277 ng/ml
Dextromethorphan	5.258	122879	14534.85	79.4	371384.89	6608	911.0958 ng/ml
Dextroprphan	4.115	218180	27652.12	206.4	148029.49	24571	1062.5073 ng/ml
Diazepam	5.945	515001	20122.35	86.7	∞	25973	947.7179 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	381928	132722.31	70.5	165095.06	28788	760.9004 ng/ml
Diphenhydramine	5.286	740647	98604.67	34.3	68389.93	39188	1001.4076 ng/ml
Doxylamine	4.522	2135389	∞	97.6	616870.01	107382	979.8544 ng/ml
EDDP	5.251	553343	66974.49	42.0	6713.50	30579	922.7700 ng/ml
Fentanyl	5.066	17506	3309.00	75.8	1743.44	8407	102.5373 ng/ml
Fluoxetine	5.705	199453	5354.43	9.8	268.05	8638	903.5137 ng/ml
Hydrocodone	3.018	465946	936.88	40.9	∞	32155	939.5748 ng/ml
Hydromorphone	1.621	475010	728.98	75.9	745.29	19736	920.1499 ng/ml
Ketamine	4.035	939517	22421.68	36.9	10907.59	51855	893.8376 ng/ml
Lamotrigine	4.284	88525	17628.44	79.4	26483.84	51855	711.4185 ng/ml
Lorazepam	5.731	392107	∞	57.5	667.93	9221	340.0591 ng/ml
Meprobamate	4.899	535703	204785.76	27.5	28626.64	40232	659.1590 ng/ml
Methadone	5.650	370285	45460.56	52.6	8060.11	18175	1018.3923 ng/ml
Methamphetamine	3.224	677325	252734.86	41.1	16817.80	33236	866.2687 ng/ml
Metoprolol	4.322	205161	96779.42	94.3	∞	111324	846.1731 ng/ml
Mirtazapine	4.597	453478	253129.65	47.8	181066.96	42061	637.1061 ng/ml
Mitragynine	5.201	54291	21556.51	38.9	14788.88	18175	724.5697 ng/ml
Morphine	1.253	103388	1345.48	23.9	2109.63	1412	824.7394 ng/ml
Norbuprenorphine	4.982	7725	6196.23	96.1	∞	3317	102.8705 ng/ml
Nordiazepam	5.885	377084	15382.65	56.6	3322.59	14147	866.8301 ng/ml
Norfentanyl	4.084	209137	41670.27	38.0	19637.65	83504	103.5164 ng/ml
Norhydrocodone	3.073	191882	∞	42.1	7061.35	29866	1484.0816 ng/ml
Noroxycodone	2.915	373493	∞	49.7	578.17	15383	930.3325 ng/ml
O-desmethyl-tramadol	3.373	2603409	289509.30	6.6	29555.74	121187	992.3531 ng/ml
Oxazepam	5.741	464429	7638.30	69.2	666.38	23600	836.4173 ng/ml
Oxycodone	2.833	954147	∞	31.5	∞	47050	942.6377 ng/ml
Oxymorphone	1.410	531727	3715.68	48.1	∞	21008	929.2549 ng/ml
Phentermine	3.781	261523	9769.74	3.9	1344.41	34216	804.5355 ng/ml
Promethazine	5.529	367251	5050.95	29.1	10450.86	15799	988.0859 ng/ml
Quetiapine	5.511	387325	261524.19	61.1	14769.56	5562	1011.5361 ng/ml
Sertraline	5.774	90323	1328.89	88.6	17244.33	4058	916.4176 ng/ml
Temazepam	5.808	1251800	10437.78	29.7	1747.60	64309	929.5630 ng/ml
Tramadol	4.235	1946830	143985.12	3.6	1379.30	111324	929.0874 ng/ml
Trazodone	5.052	294445	42612.20	78.0	2820.01	14183	1023.8920 ng/ml
Venlafaxine	5.033	1434875	260534.16	37.7	27099.05	72796	983.9632 ng/ml
Zolpidem	4.828	2211309	117085.64	30.9	157548.92	121610	911.6916 ng/ml

outside curve range TS

outside curve range TS

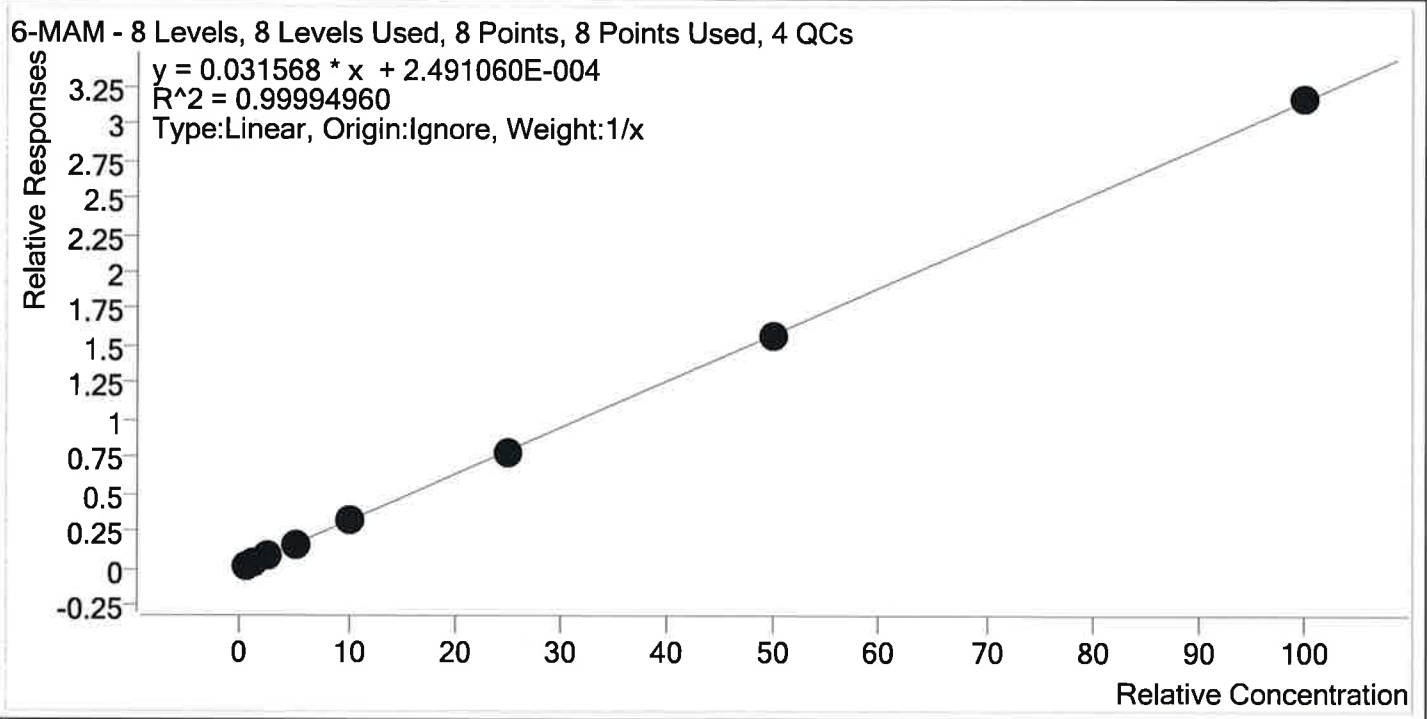
outside curve range TS

outside curve range TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wklist 3106
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Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6



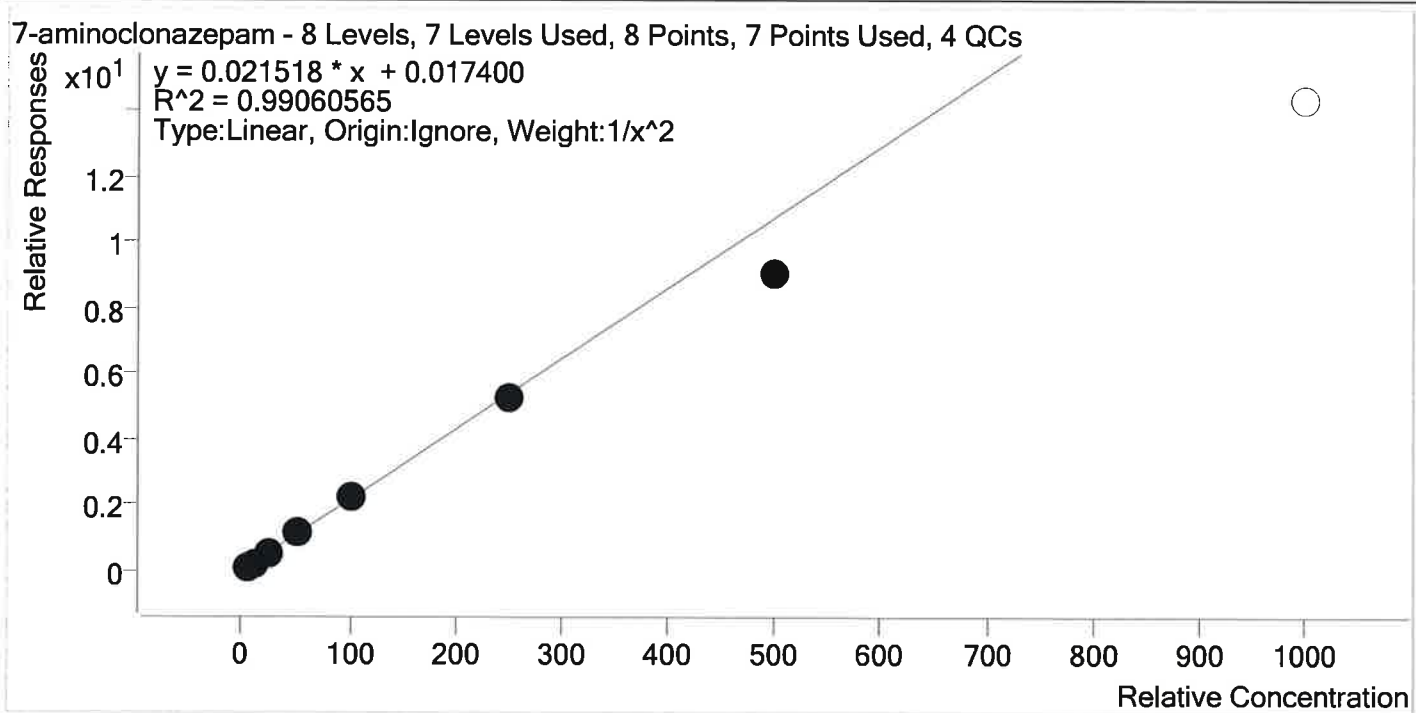
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p1 Cal 1-5ng	1	✓	0.5	0.5	101.7
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.7
p1 Cal 3 -25ng	3	✓	2.5	2.5	99.2
p1 Cal 4-50ng	4	✓	5.0	4.9	98.5
p1 Cal 5-100ng	5	✓	10.0	10.2	101.5
p1 Cal 6-250ng	6	✓	25.0	25.0	99.9
p1 Cal 7-500ng	7	✓	50.0	49.6	99.1
p1 Cal 8-1000ng	8	✓	100.0	100.4	100.4

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datator
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



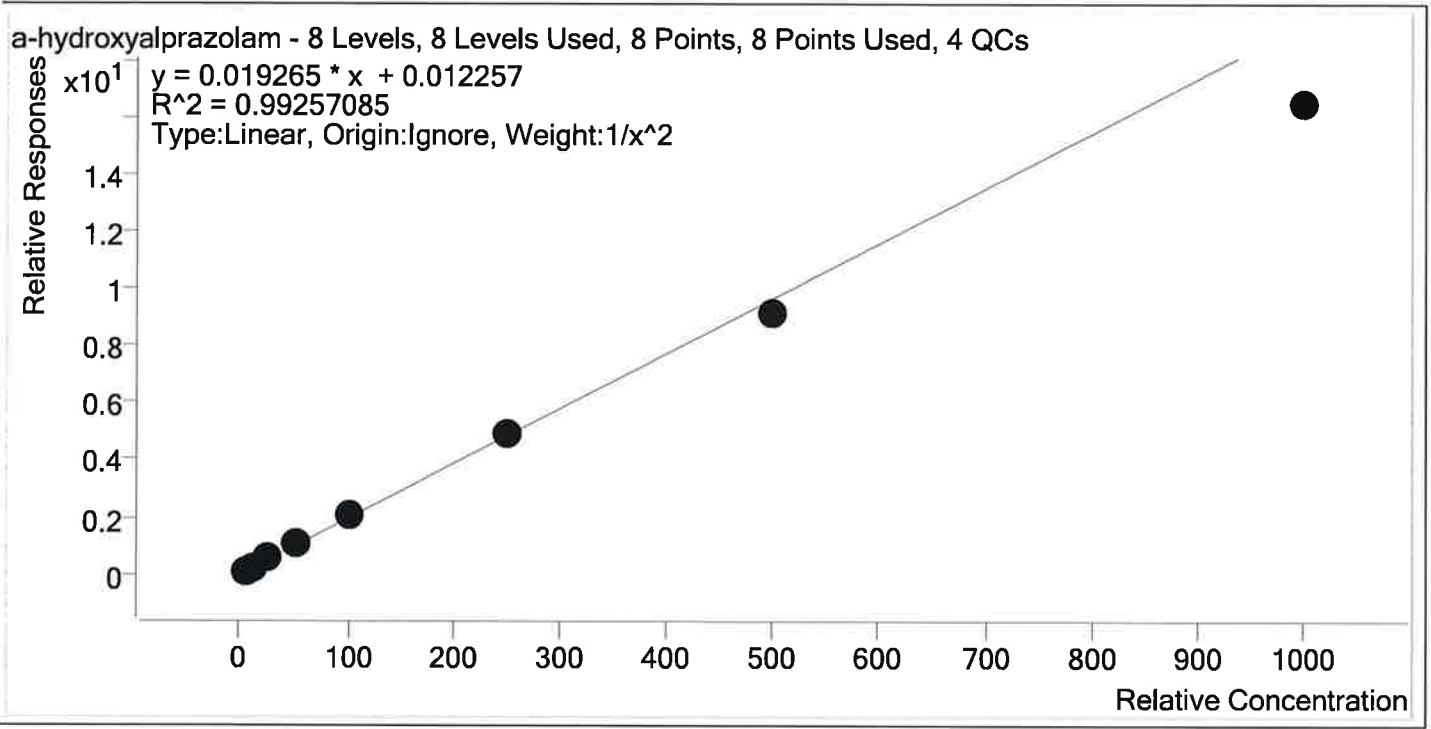
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	26.5	106.1
p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	246.5	98.6
p1 Cal 7-500ng	7	✓	500.0	419.0	83.8
p1 Cal 8-1000ng	8	×	1000.0	665.9	66.6

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\p1 wk1st 3106
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Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5



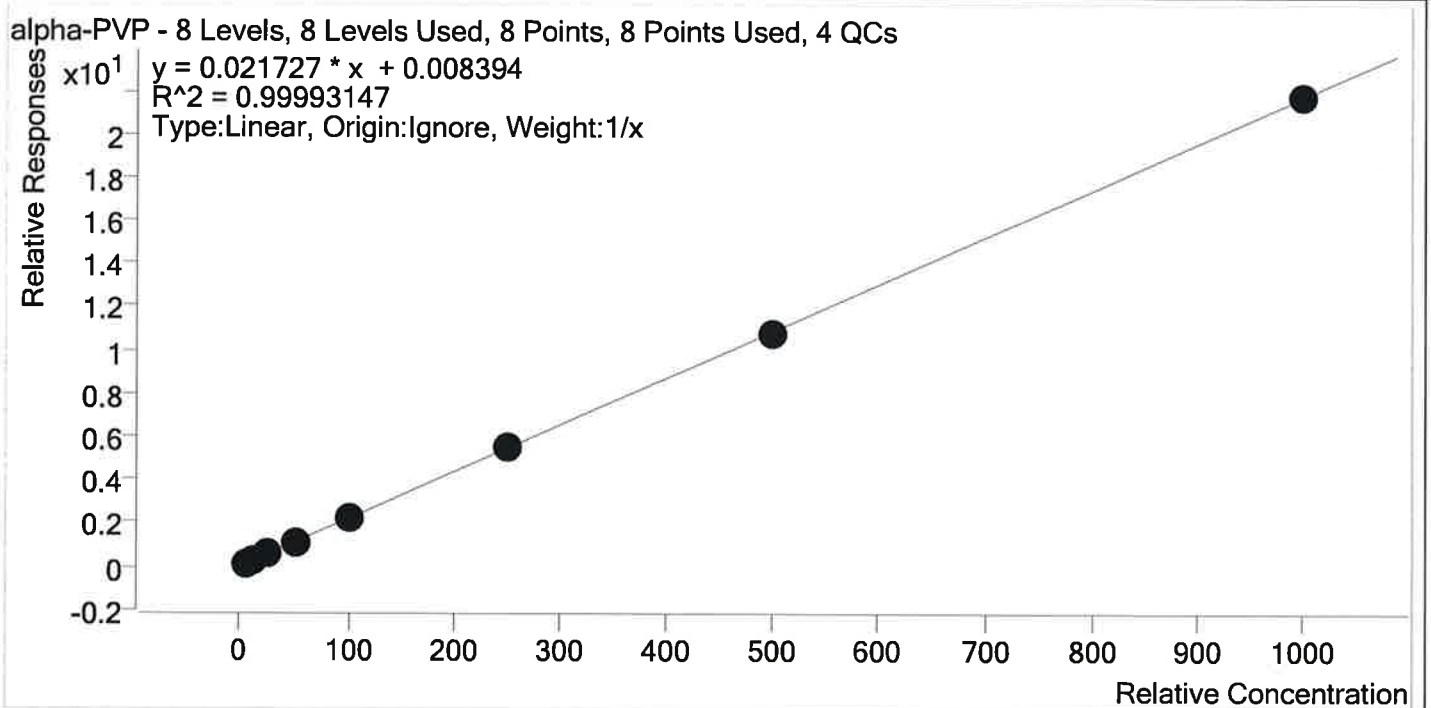
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.7
p1 Cal 4-50ng	4	✓	50.0	52.4	104.8
p1 Cal 5-100ng	5	✓	100.0	105.7	105.7
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	475.4	95.1
p1 Cal 8-1000ng	8	✓	1000.0	853.1	85.3

DS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\IP1 wk1st 3106
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Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8



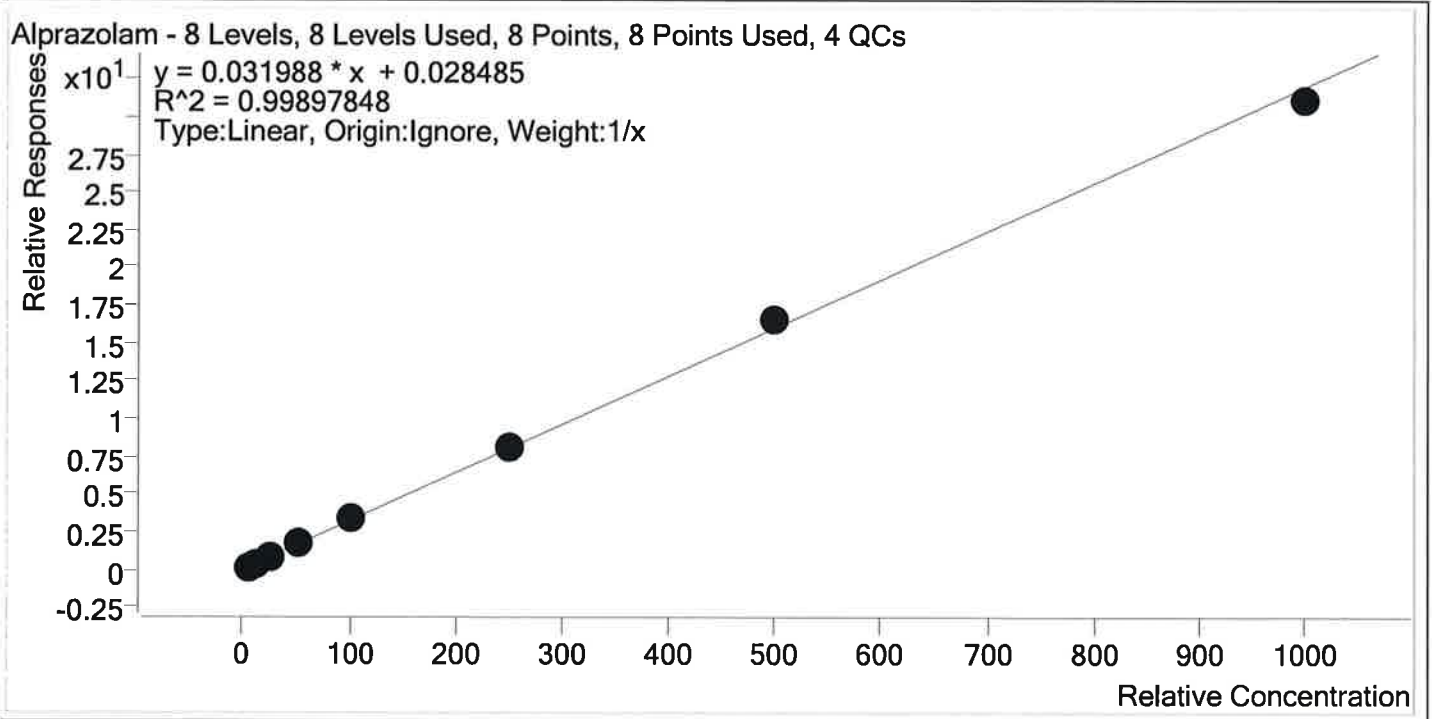
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.4
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	496.5	99.3
p1 Cal 8-1000ng	8	✓	1000.0	999.8	100.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\IP1 wklst 3106
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Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5



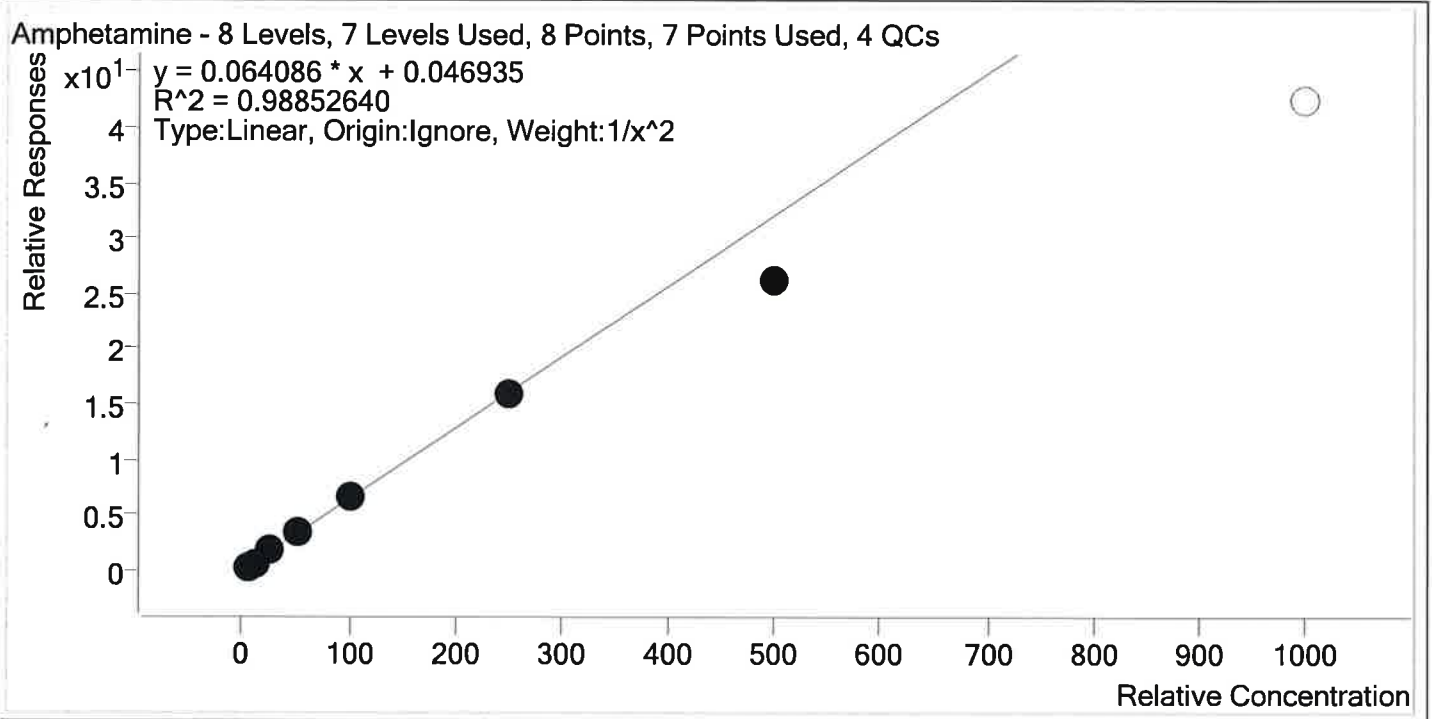
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.4	88.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	256.7	102.7
p1 Cal 7-500ng	7	✓	500.0	515.6	103.1
p1 Cal 8-1000ng	8	✓	1000.0	971.9	97.2

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wklst 3106
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Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11



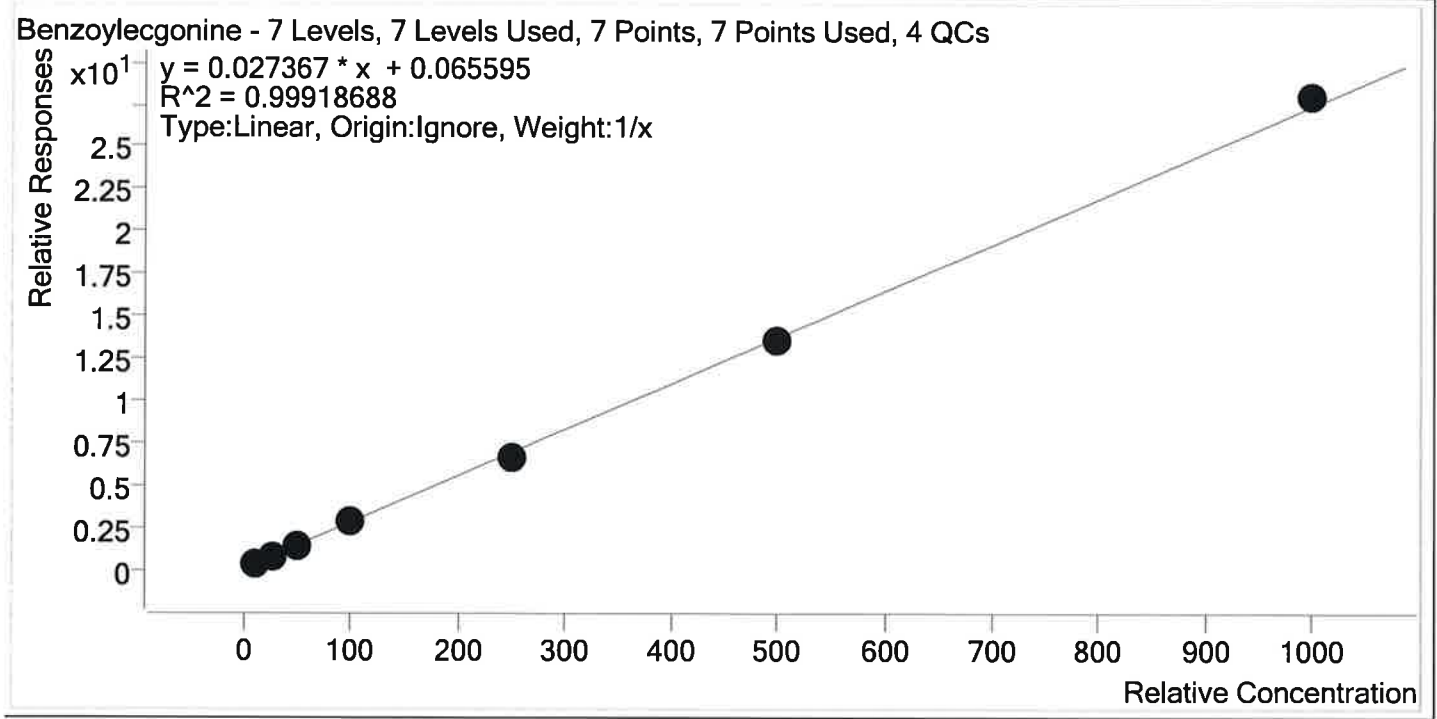
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.9
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.4
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.6
p1 Cal 4-50ng	4	✓	50.0	52.4	104.9
p1 Cal 5-100ng	5	✓	100.0	106.0	106.0
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	409.8	82.0
p1 Cal 8-1000ng	8	×	1000.0	662.1	66.2

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	✓	10.0	11.3	112.6
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.8
p1 Cal 4-50ng	4	✓	50.0	47.4	94.9
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	238.7	95.5
p1 Cal 7-500ng	7	✓	500.0	493.3	98.7
p1 Cal 8-1000ng	8	✓	1000.0	1020.6	102.1

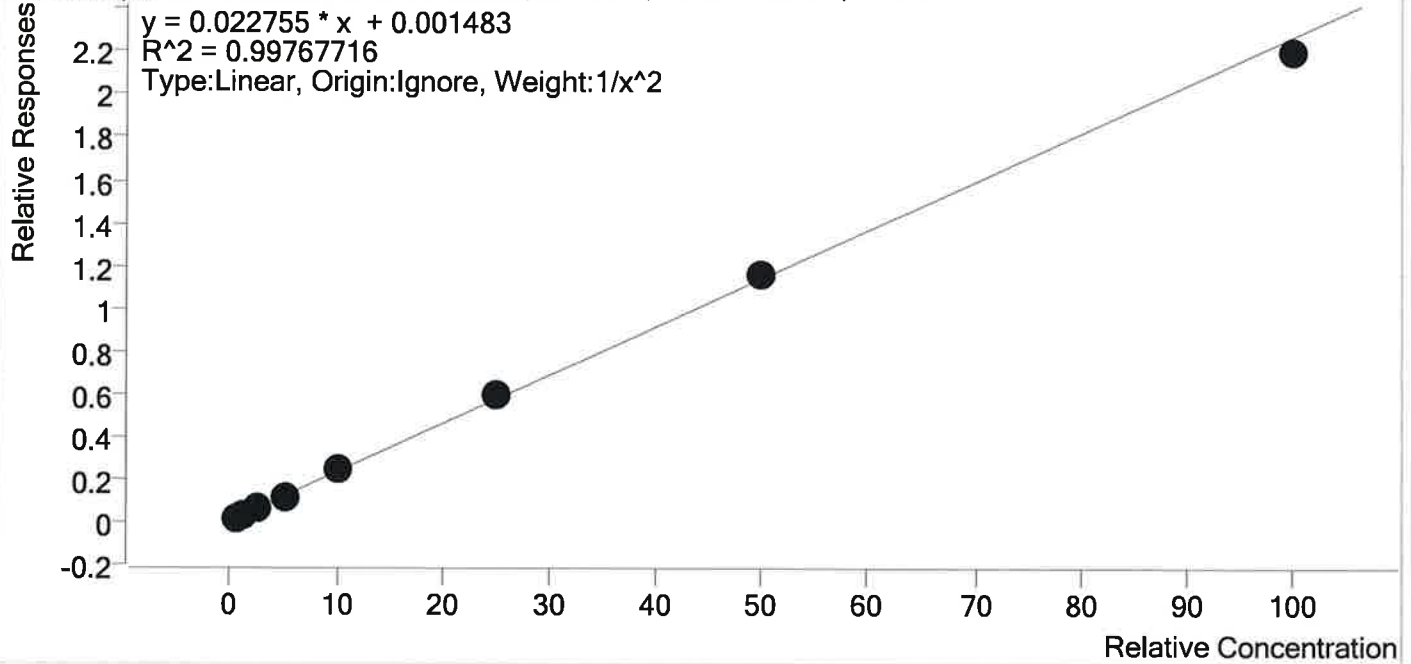
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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



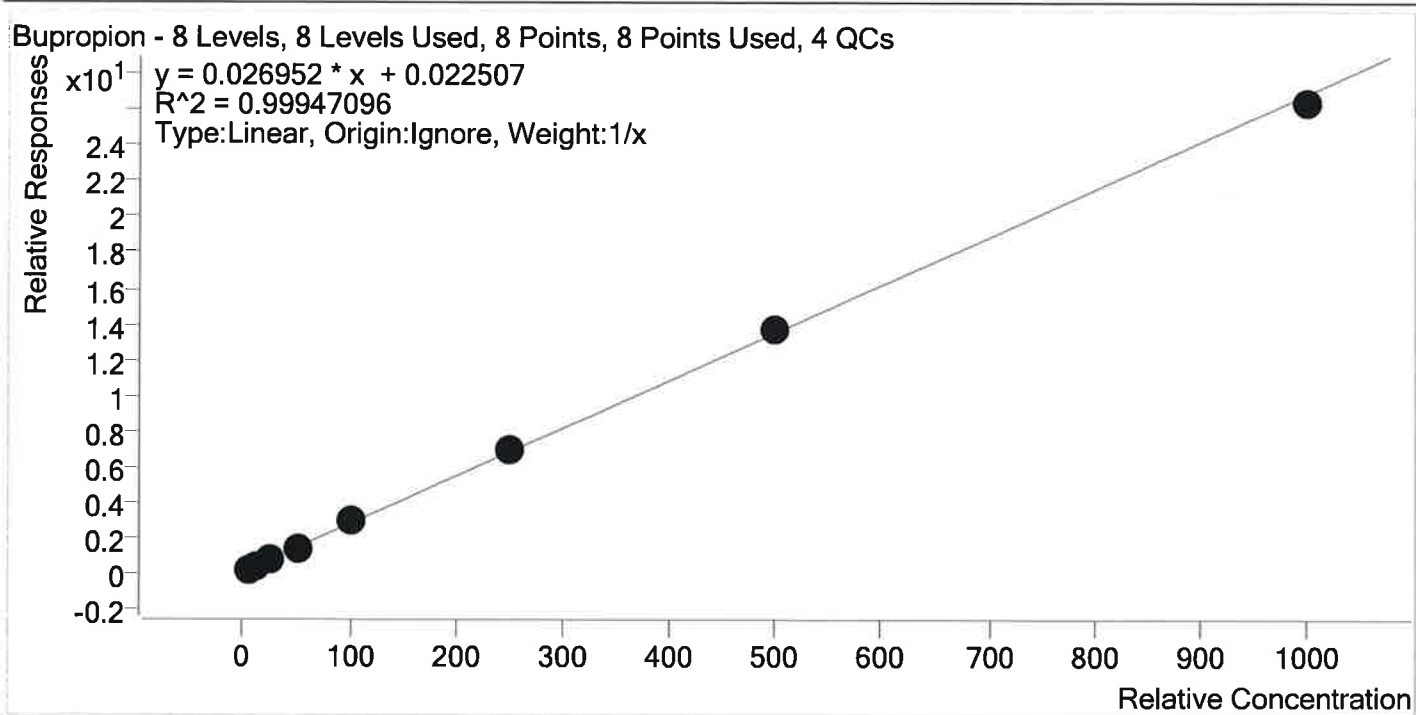
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.8
p1 Cal 2- 10ng	2	✓	1.0	0.9	93.1
p1 Cal 3 -25ng	3	✓	2.5	2.6	104.2
p1 Cal 4-50ng	4	✓	5.0	4.8	95.7
p1 Cal 5-100ng	5	✓	10.0	10.3	103.2
p1 Cal 6-250ng	6	✓	25.0	25.7	103.0
p1 Cal 7-500ng	7	✓	50.0	50.6	101.1
p1 Cal 8-1000ng	8	✓	100.0	96.8	96.8

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Bupropion **Internal Standard** Bupropion-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	89.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	50.9	101.7
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	258.1	103.2
p1 Cal 7-500ng	7	✓	500.0	506.1	101.2
p1 Cal 8-1000ng	8	✓	1000.0	980.9	98.1

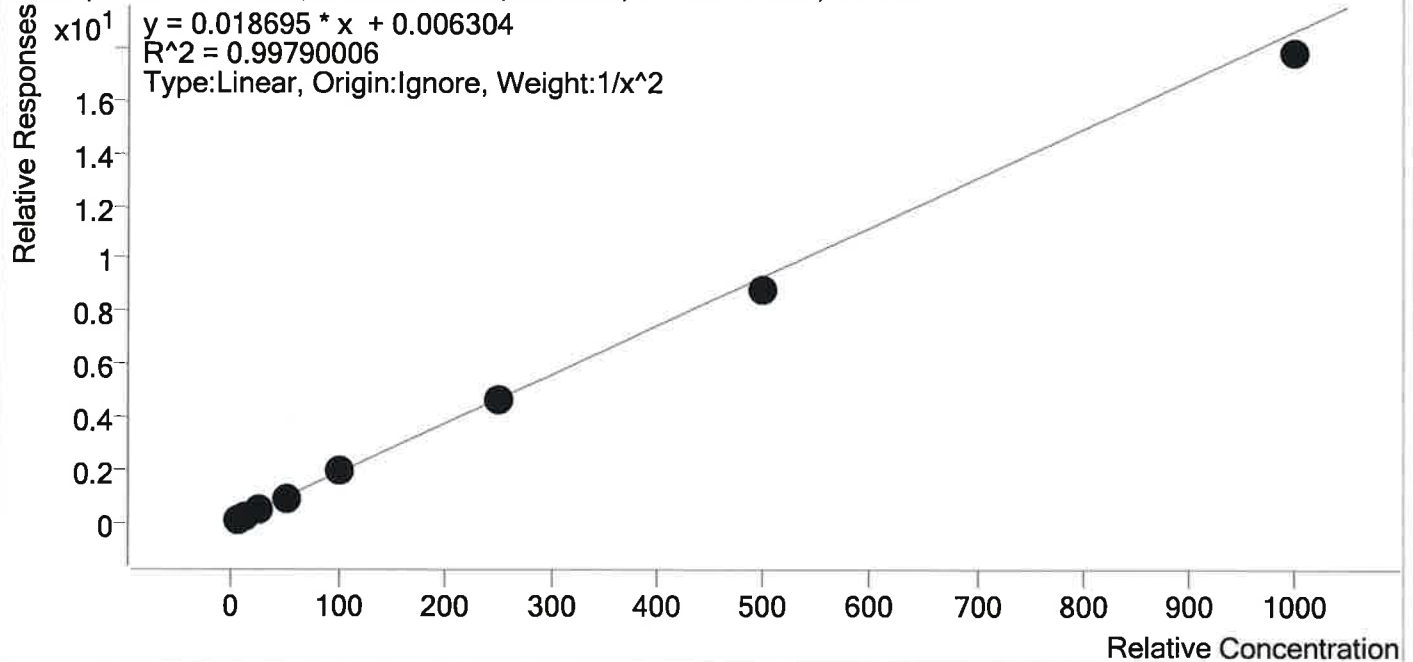
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p1 Cal 4-50ng	4	✓	50.0	50.4	100.7
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
p1 Cal 7-500ng	7	✓	500.0	475.9	95.2
p1 Cal 8-1000ng	8	✓	1000.0	955.3	95.5

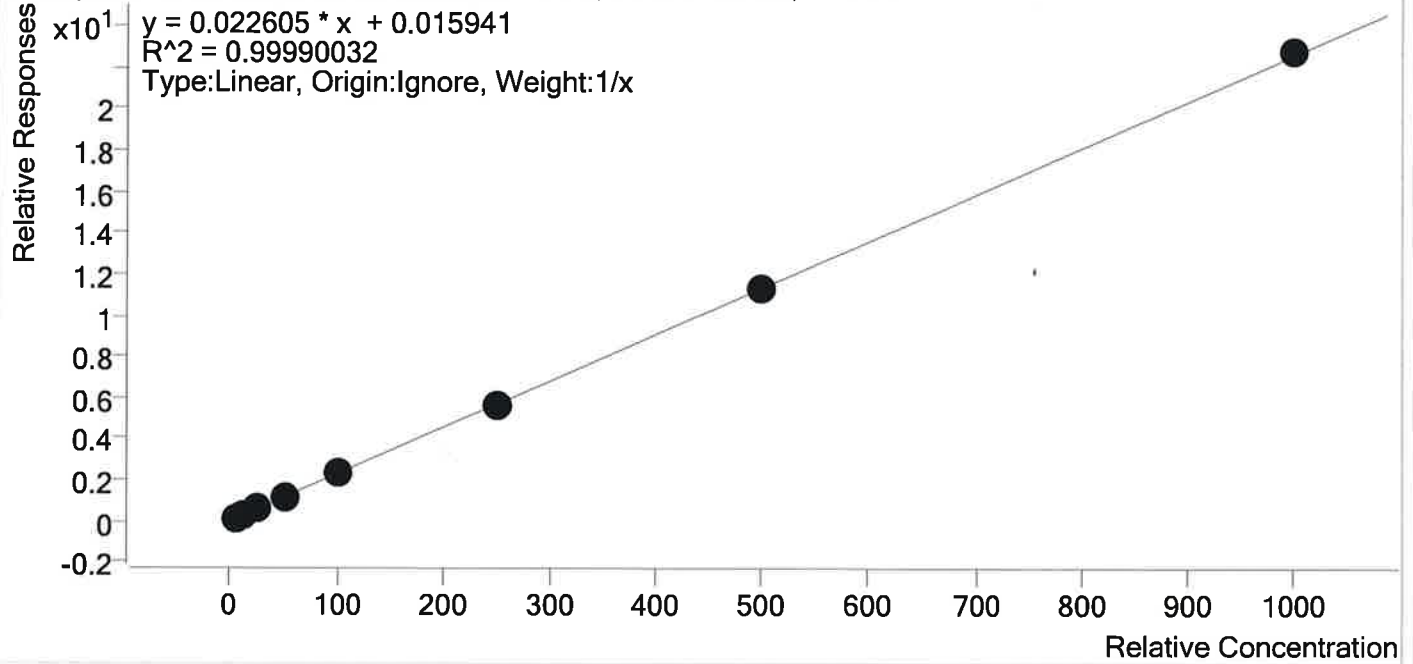
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\p1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	48.8	97.6
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	247.4	99.0
p1 Cal 7-500ng	7	✓	500.0	495.2	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1007.8	100.8

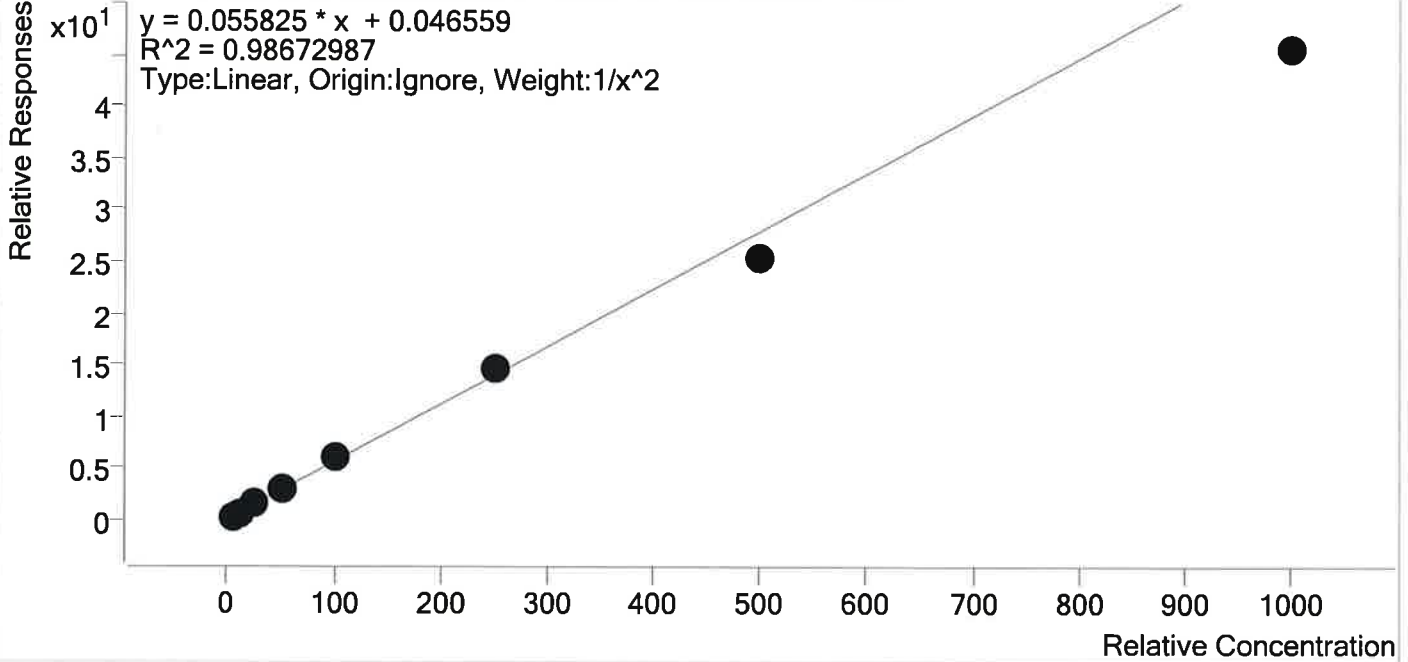
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datator
Analyte Clonazepam **Internal Standard** Clonazepam-D4

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

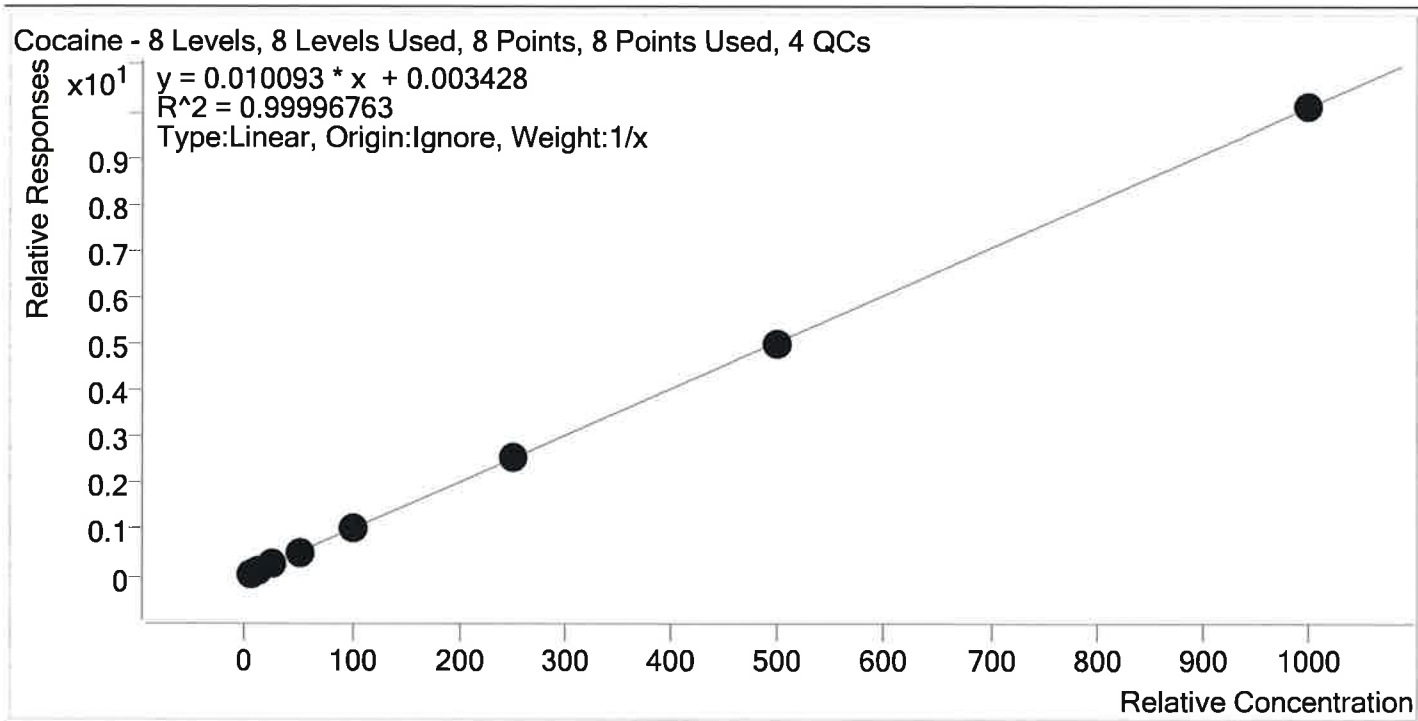


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.4
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.1
p1 Cal 3 -25ng	3	✓	25.0	26.7	107.0
p1 Cal 4-50ng	4	✓	50.0	54.5	109.1
p1 Cal 5-100ng	5	✓	100.0	107.0	107.0
p1 Cal 6-250ng	6	✓	250.0	262.0	104.8
p1 Cal 7-500ng	7	✓	500.0	451.1	90.2
p1 Cal 8-1000ng	8	✓	1000.0	815.0	81.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/26/2019 1:46 PM
Analyst Name ISP\Datastor
Analyte Cocaine **Internal Standard** Cocaine-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	250.9	100.3
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1001.0	100.1

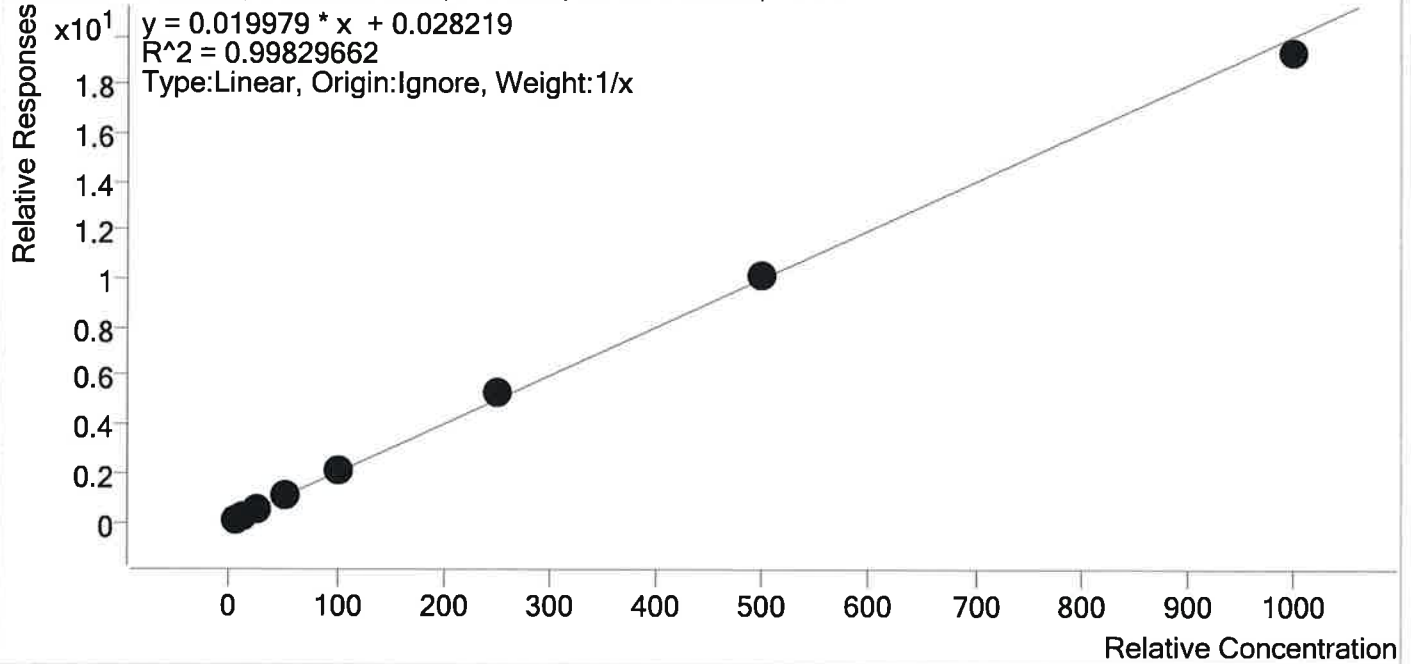
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datator
Analyte Codeine **Internal Standard** Codeine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.0	80.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.5
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	106.3	106.3
p1 Cal 6-250ng	6	✓	250.0	265.0	106.0
p1 Cal 7-500ng	7	✓	500.0	510.4	102.1
p1 Cal 8-1000ng	8	✓	1000.0	965.9	96.6

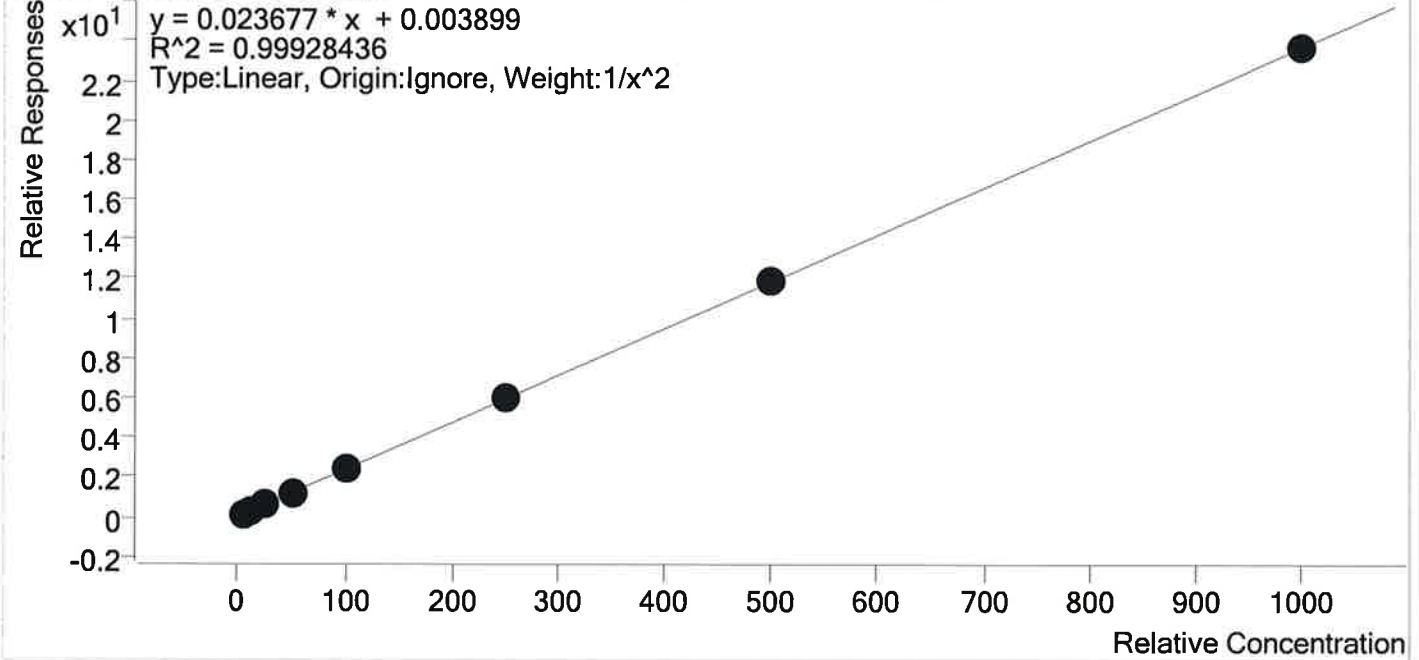
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.4
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	252.1	100.8
p1 Cal 7-500ng	7	✓	500.0	500.0	100.0
p1 Cal 8-1000ng	8	✓	1000.0	999.6	100.0

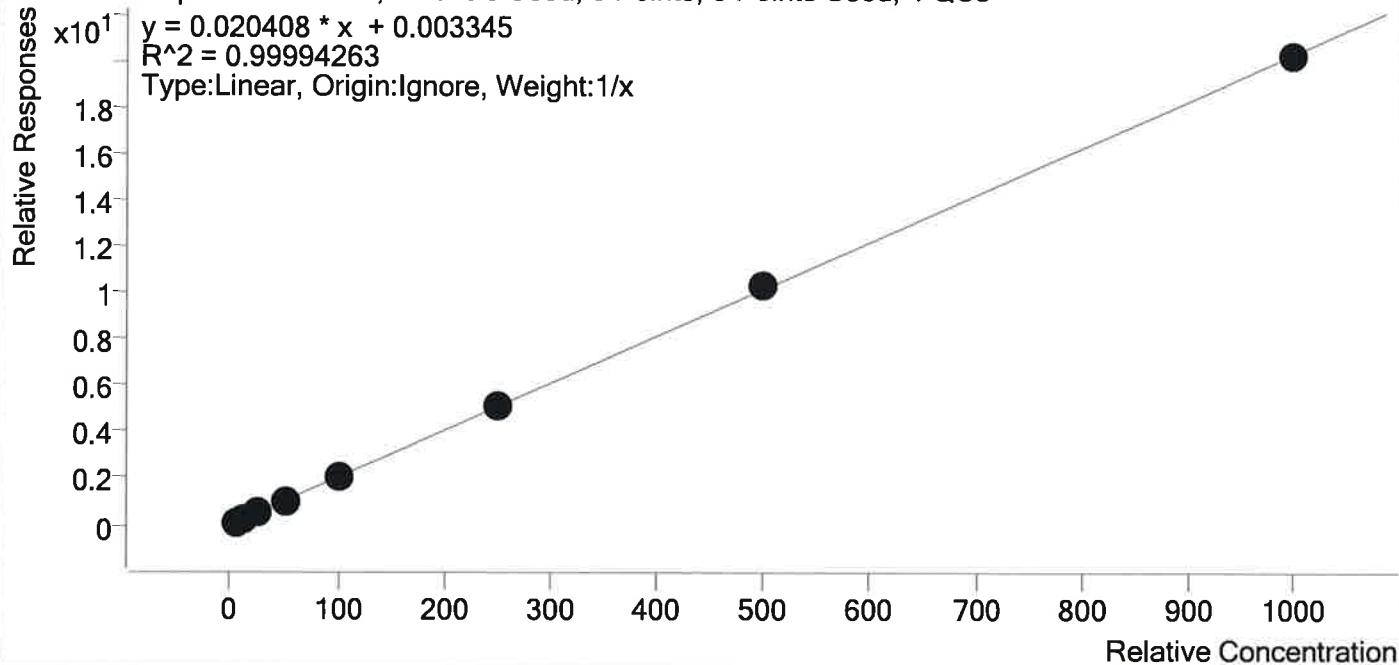
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

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



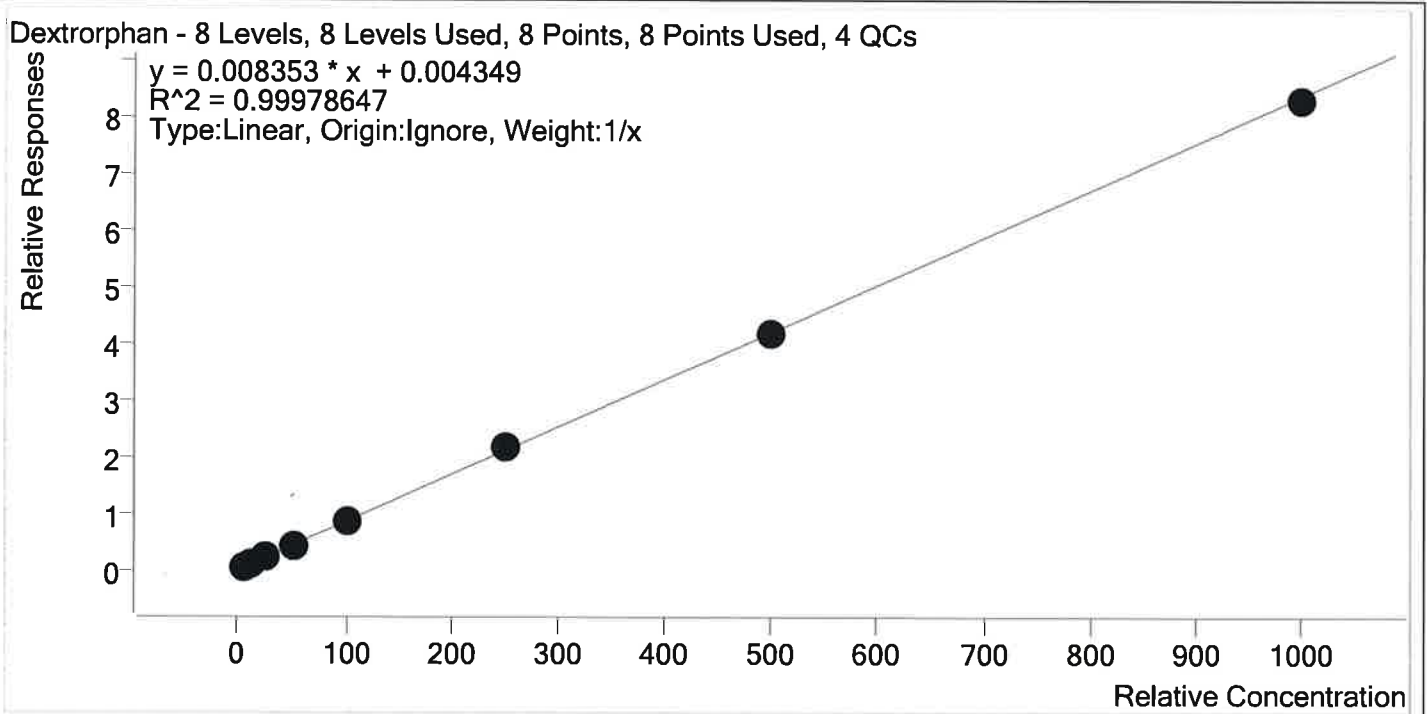
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.8
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.6
p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
p1 Cal 5-100ng	5	✓	100.0	99.7	99.7
p1 Cal 6-250ng	6	✓	250.0	249.6	99.9
p1 Cal 7-500ng	7	✓	500.0	504.8	101.0
p1 Cal 8-1000ng	8	✓	1000.0	996.6	99.7

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	92.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.6
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	255.6	102.2
p1 Cal 7-500ng	7	✓	500.0	500.9	100.2
p1 Cal 8-1000ng	8	✓	1000.0	990.1	99.0

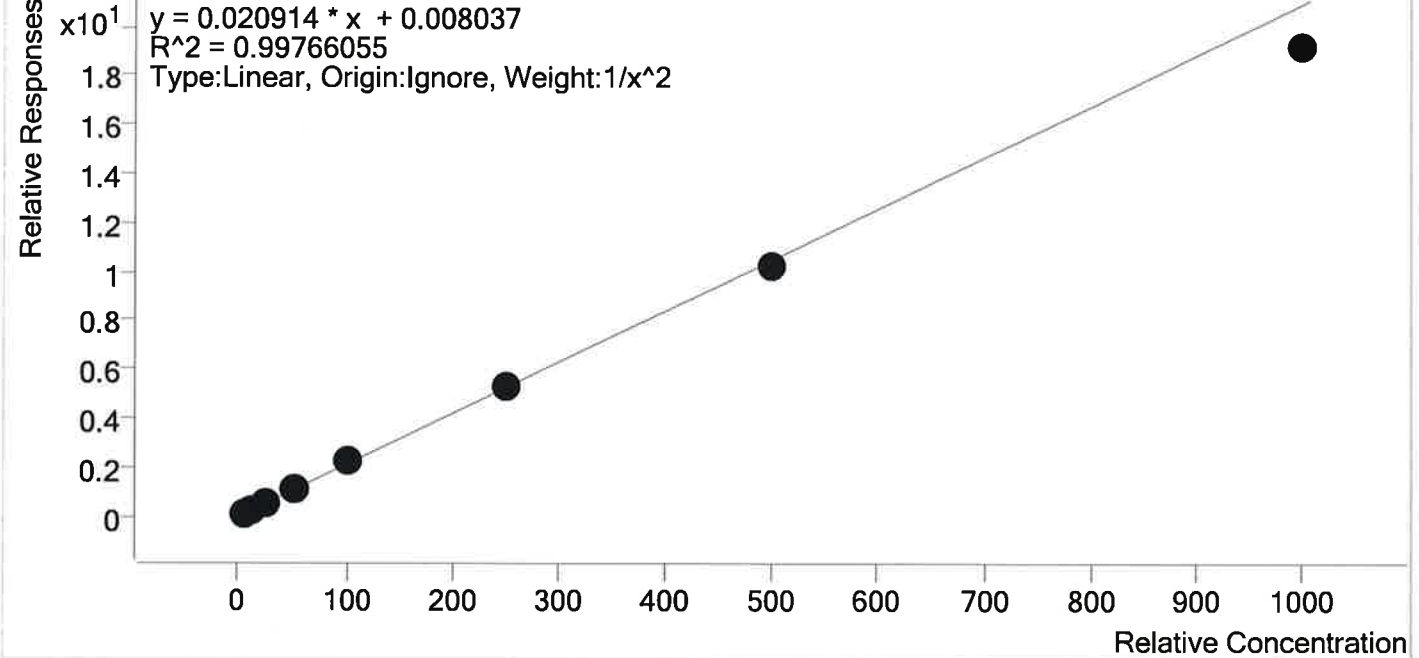
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.3
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	50.6	101.3
p1 Cal 5-100ng	5	✓	100.0	104.4	104.4
p1 Cal 6-250ng	6	✓	250.0	254.3	101.7
p1 Cal 7-500ng	7	✓	500.0	490.3	98.1
p1 Cal 8-1000ng	8	✓	1000.0	916.7	91.7

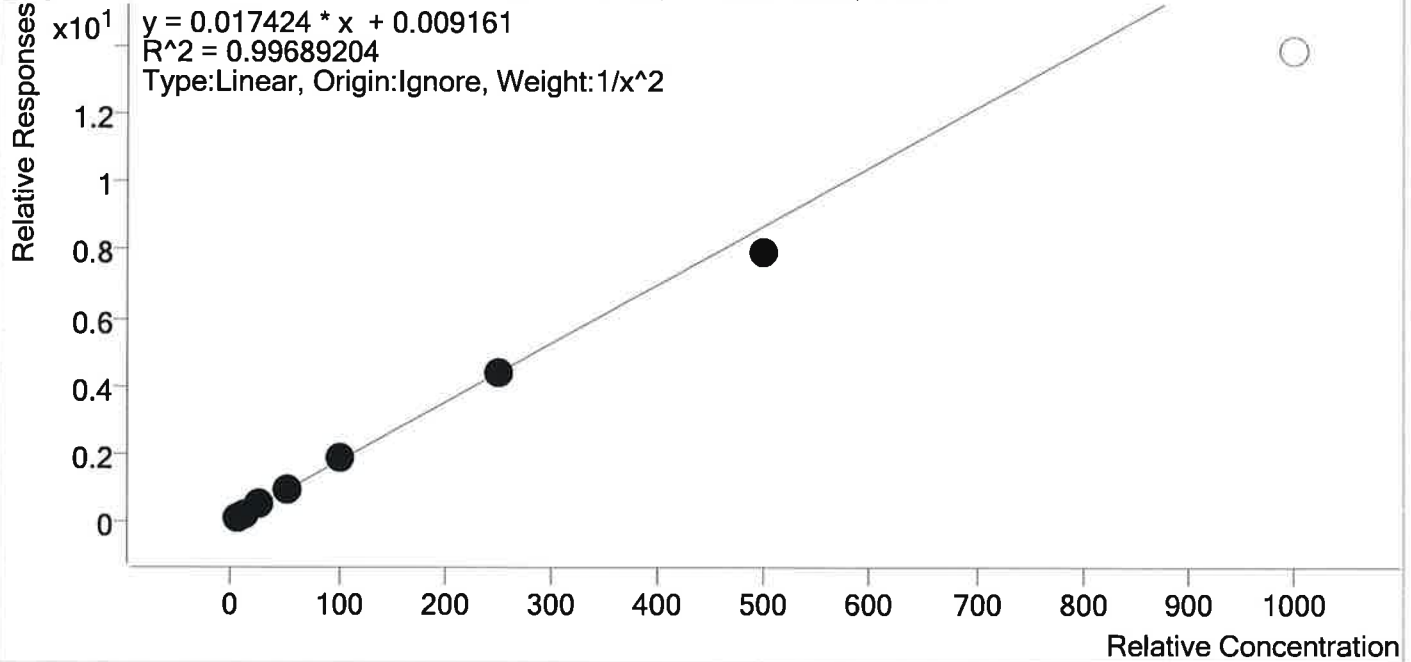
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datator
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.7
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	50.5	101.1
p1 Cal 5-100ng	5	✓	100.0	104.1	104.1
p1 Cal 6-250ng	6	✓	250.0	251.6	100.7
p1 Cal 7-500ng	7	✓	500.0	452.9	90.6
p1 Cal 8-1000ng	8	×	1000.0	797.7	79.8

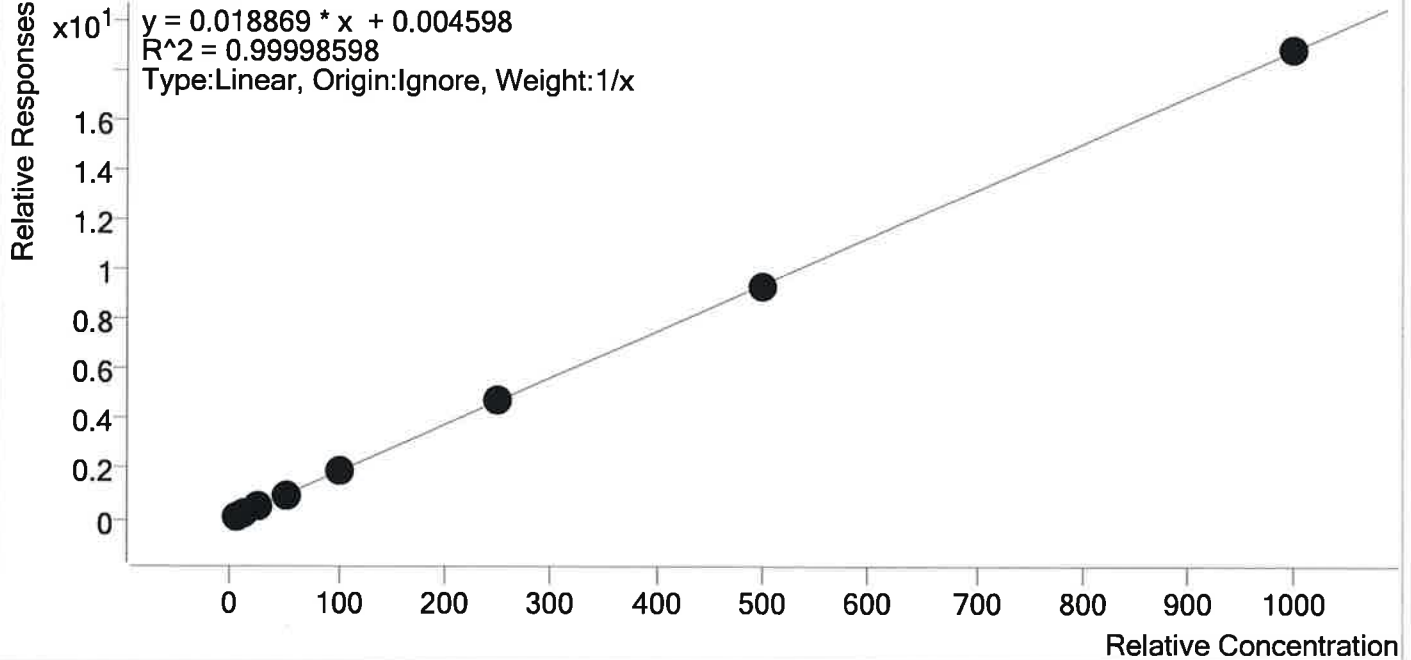
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
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	4.9	97.2
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.8
p1 Cal 4-50ng	4	✓	50.0	49.5	98.9
p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	498.7	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1000.6	100.1

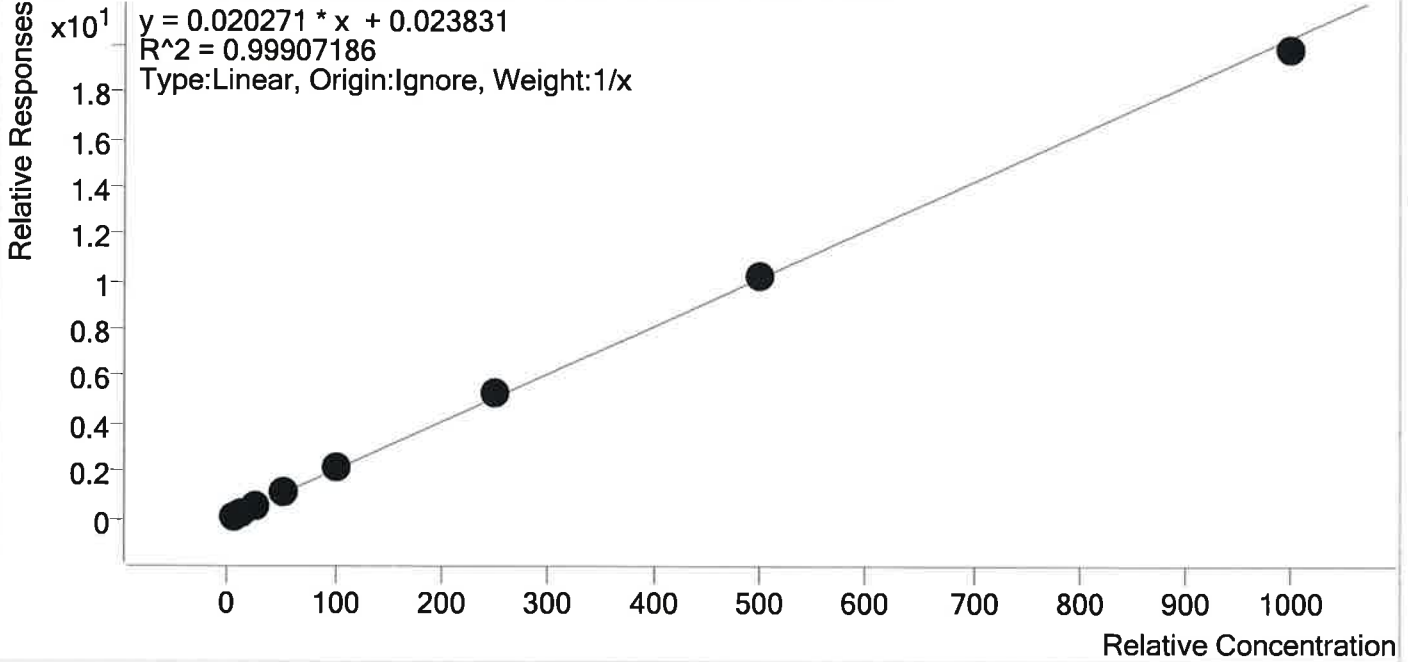
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	84.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.9
p1 Cal 4-50ng	4	✓	50.0	51.6	103.1
p1 Cal 5-100ng	5	✓	100.0	106.3	106.3
p1 Cal 6-250ng	6	✓	250.0	258.8	103.5
p1 Cal 7-500ng	7	✓	500.0	507.8	101.6
p1 Cal 8-1000ng	8	✓	1000.0	975.4	97.5

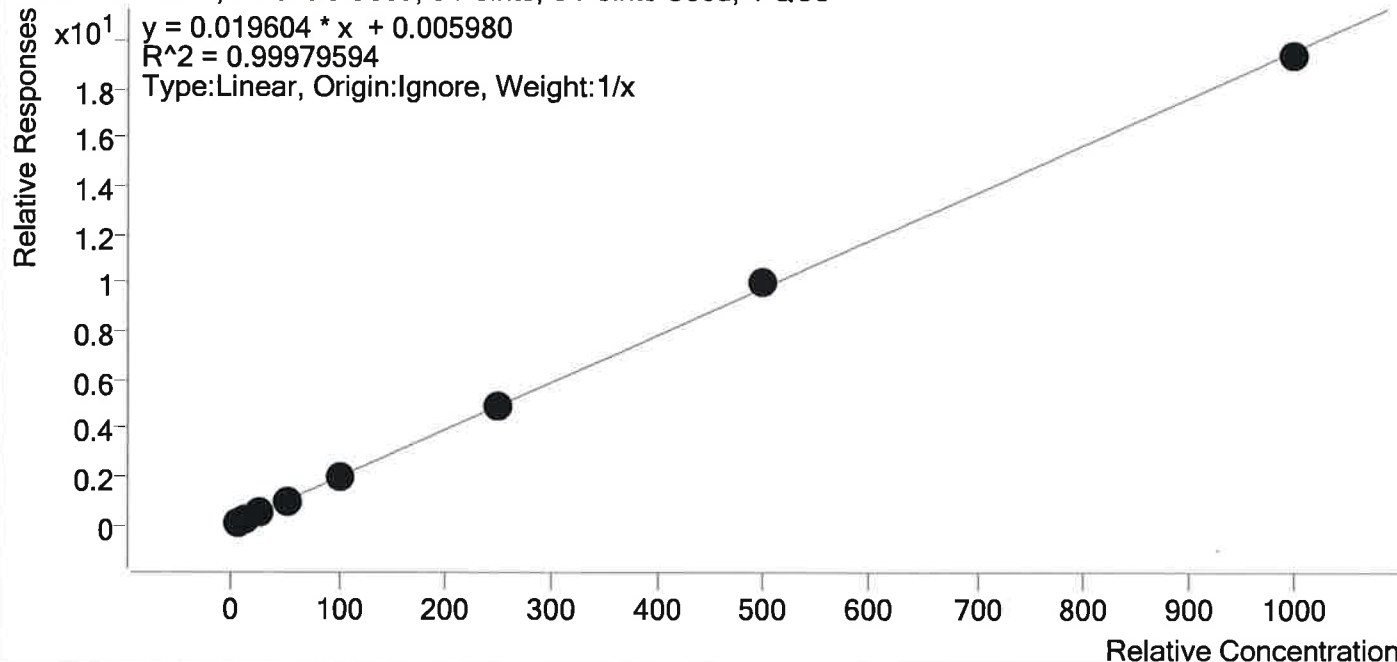
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\IP1 wk\lst 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte EDDP **Internal Standard** EDDP-D3

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



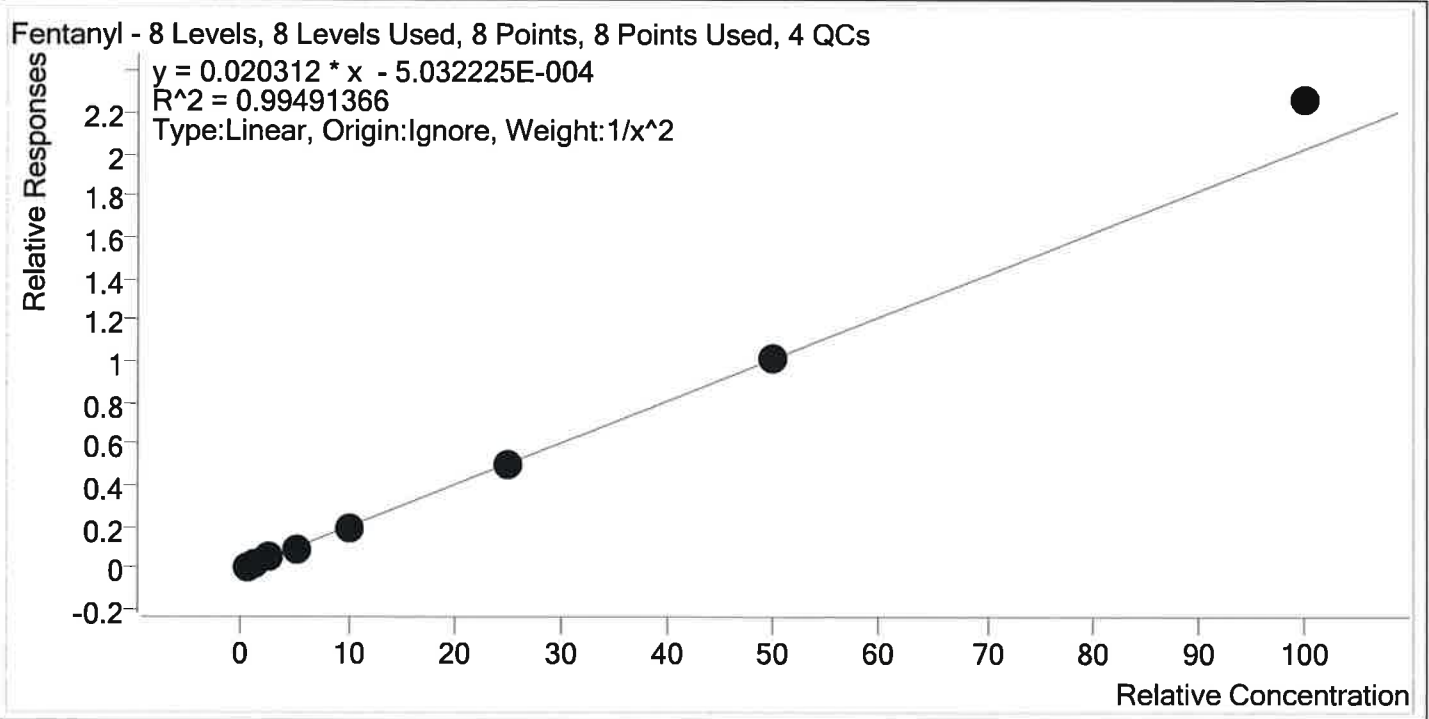
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	510.3	102.1
p1 Cal 8-1000ng	8	✓	1000.0	989.9	99.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\IP1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	99.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	103.3
p1 Cal 3 -25ng	3	✓	2.5	2.6	102.3
p1 Cal 4-50ng	4	✓	5.0	4.5	91.0
p1 Cal 5-100ng	5	✓	10.0	9.4	94.5
p1 Cal 6-250ng	6	✓	25.0	24.4	97.6
p1 Cal 7-500ng	7	✓	50.0	50.4	100.8
p1 Cal 8-1000ng	8	✓	100.0	111.6	111.6

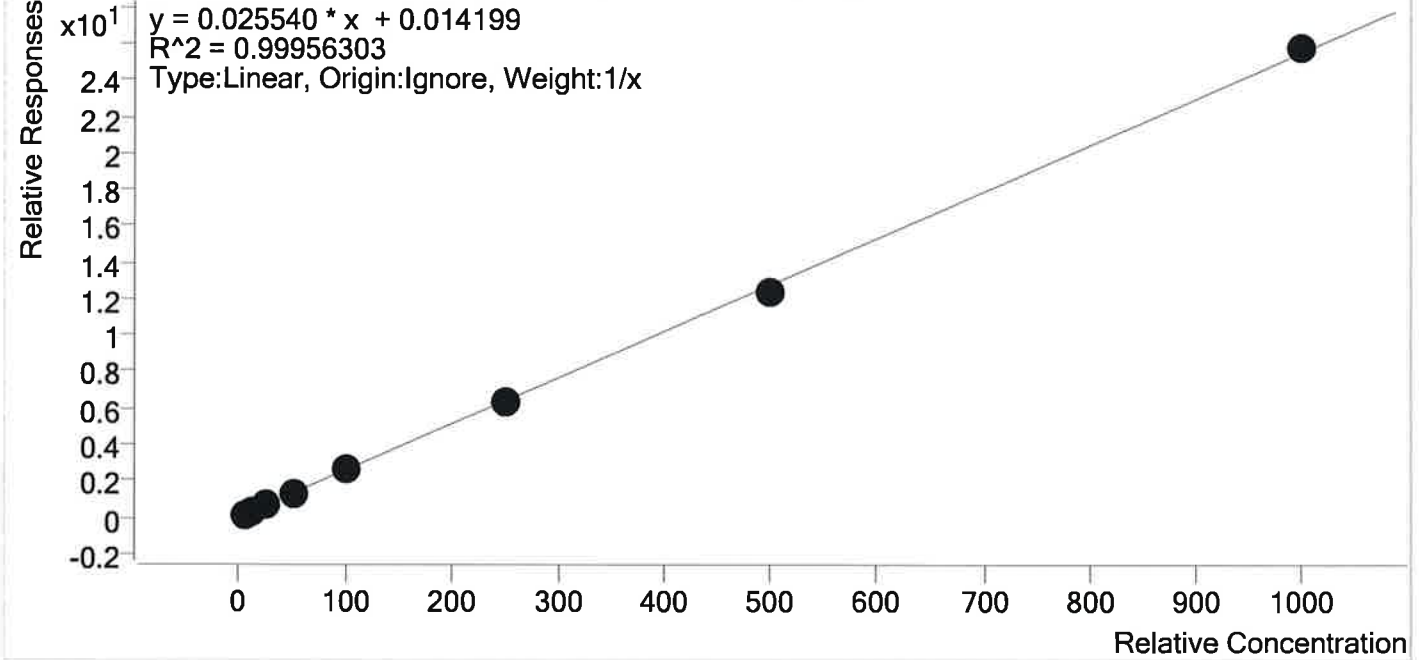
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datator
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	51.6	103.3
p1 Cal 5-100ng	5	✓	100.0	104.2	104.2
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	485.2	97.0
p1 Cal 8-1000ng	8	✓	1000.0	1009.7	101.0

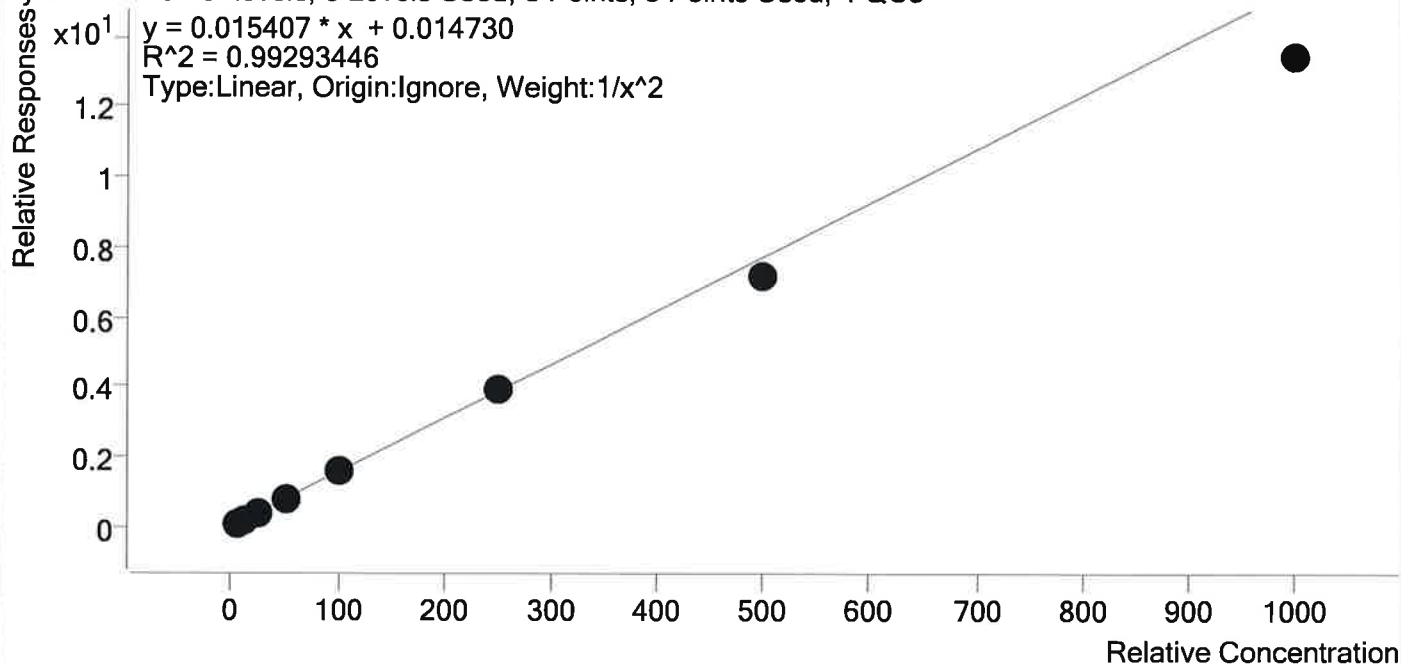
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datator
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.7
p1 Cal 2- 10ng	2	✓	10.0	10.7	106.7
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.6
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	104.2	104.2
p1 Cal 6-250ng	6	✓	250.0	253.4	101.4
p1 Cal 7-500ng	7	✓	500.0	467.8	93.6
p1 Cal 8-1000ng	8	✓	1000.0	871.8	87.2

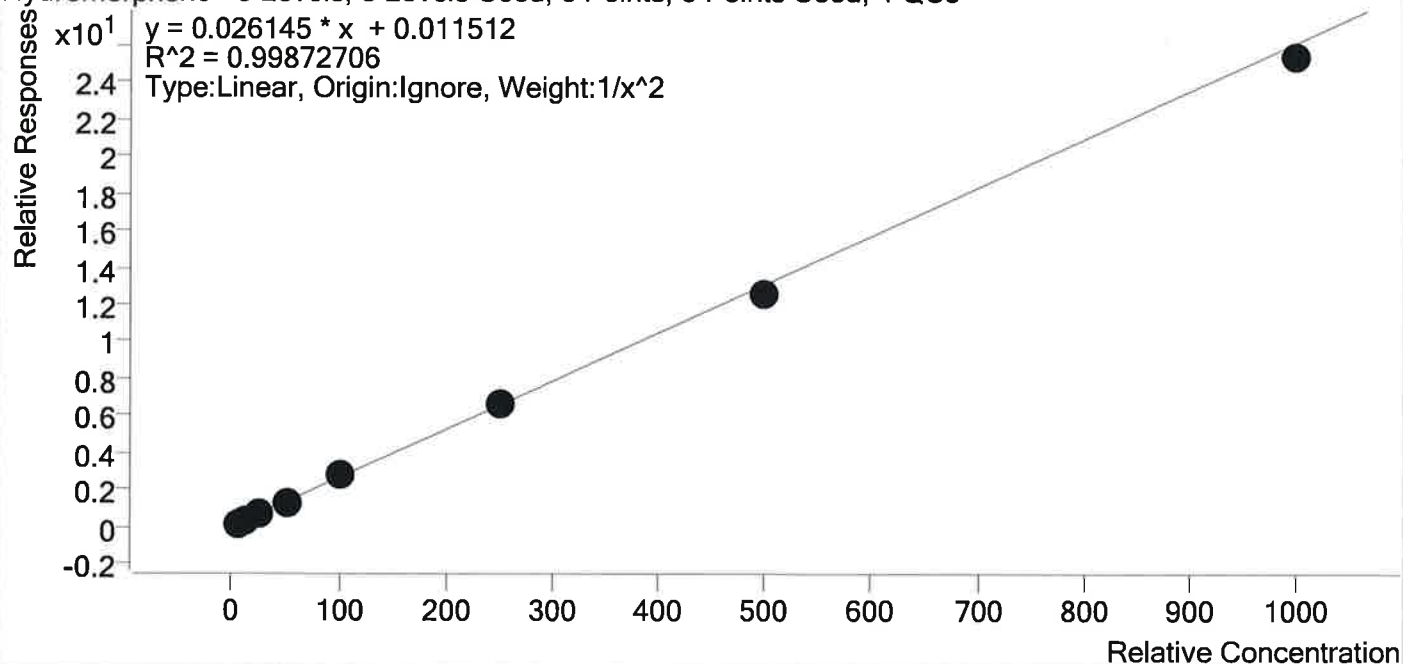
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	49.8	99.7
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
p1 Cal 7-500ng	7	✓	500.0	480.9	96.2
p1 Cal 8-1000ng	8	✓	1000.0	970.8	97.1

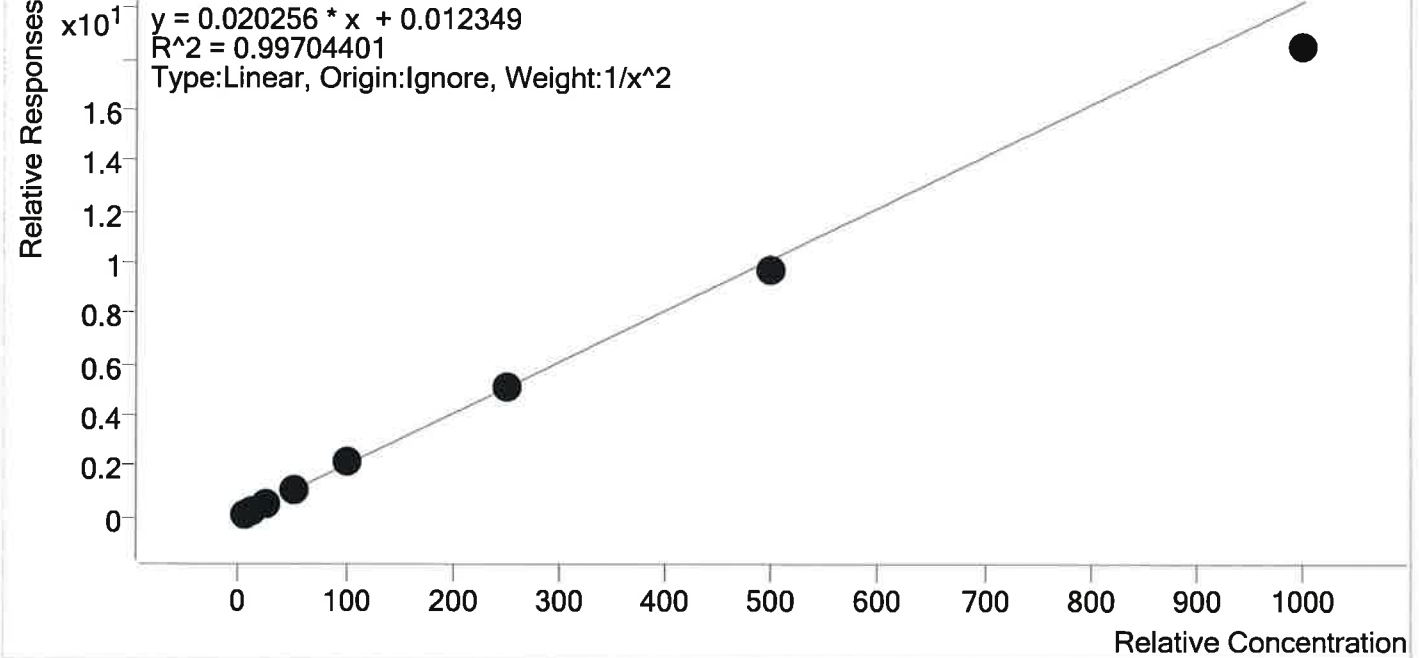
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.9
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.9
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	104.1	104.1
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	481.4	96.3
p1 Cal 8-1000ng	8	✓	1000.0	912.3	91.2

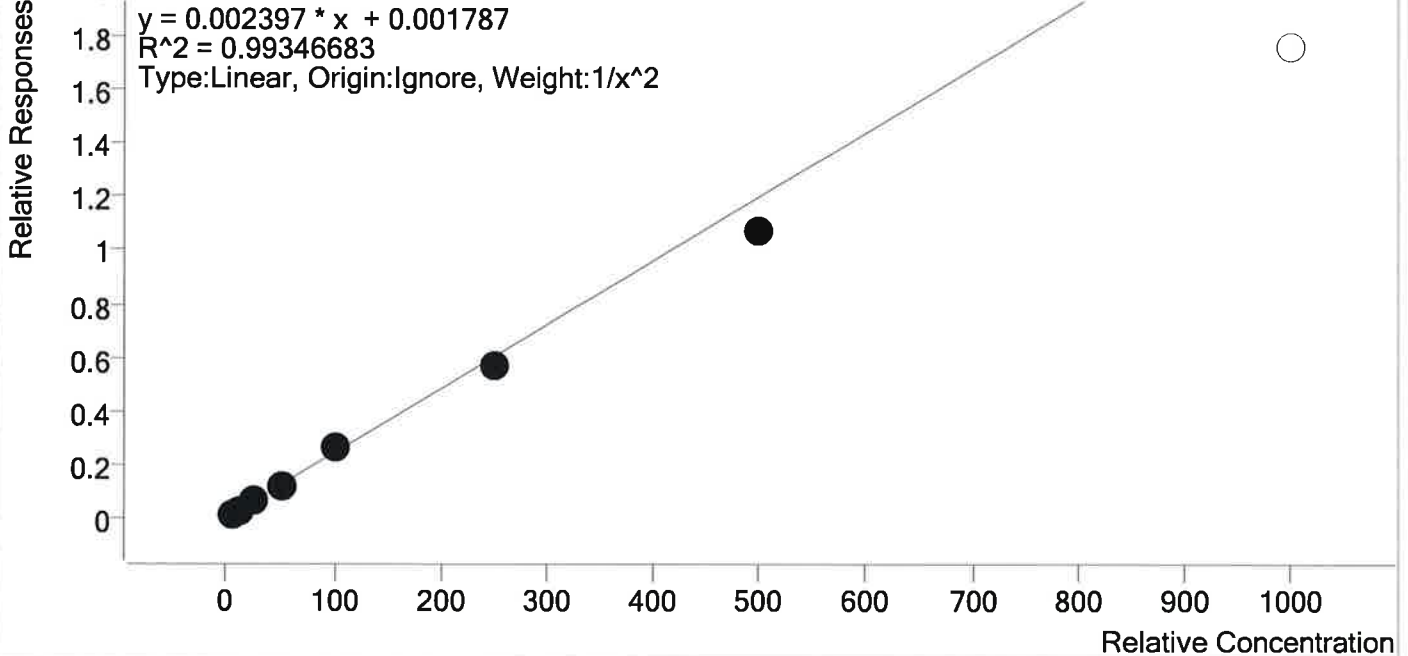
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\IP1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.7
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.2
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	106.7	106.7
p1 Cal 6-250ng	6	✓	250.0	236.8	94.7
p1 Cal 7-500ng	7	✓	500.0	446.8	89.4
p1 Cal 8-1000ng	8	x	1000.0	733.3	73.3

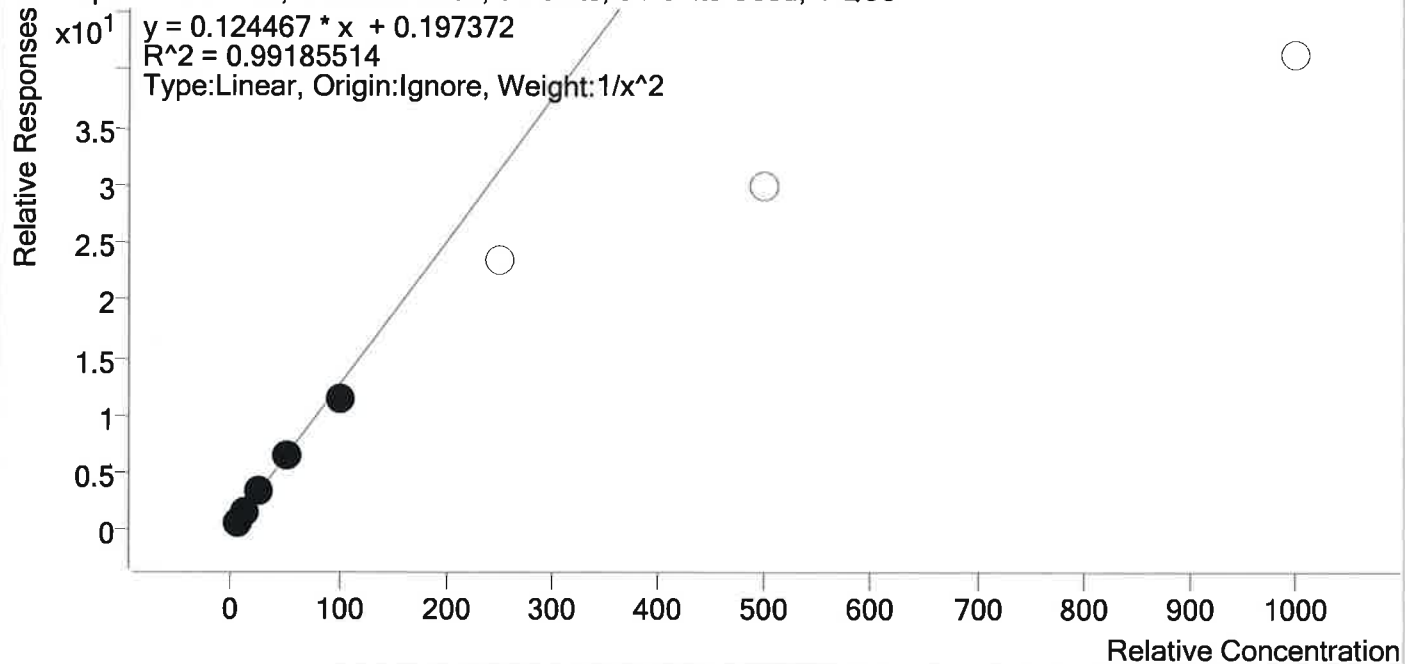
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datator
Analyte Lorazepam **Internal Standard** Clonazepam-D4

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



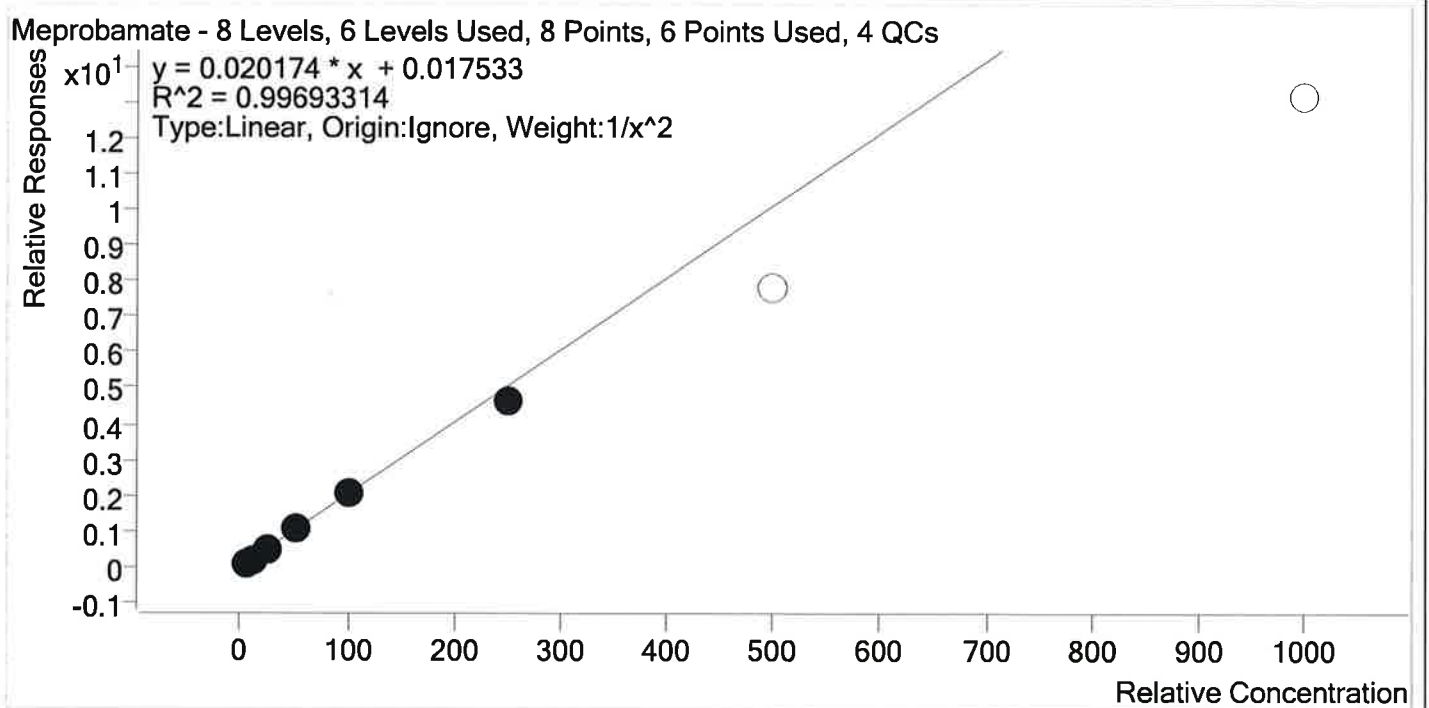
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.9
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.4
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	89.9	89.9
p1 Cal 6-250ng	6	×	250.0	188.4	75.3
p1 Cal 7-500ng	7	×	500.0	240.1	48.0
p1 Cal 8-1000ng	8	×	1000.0	330.4	33.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7



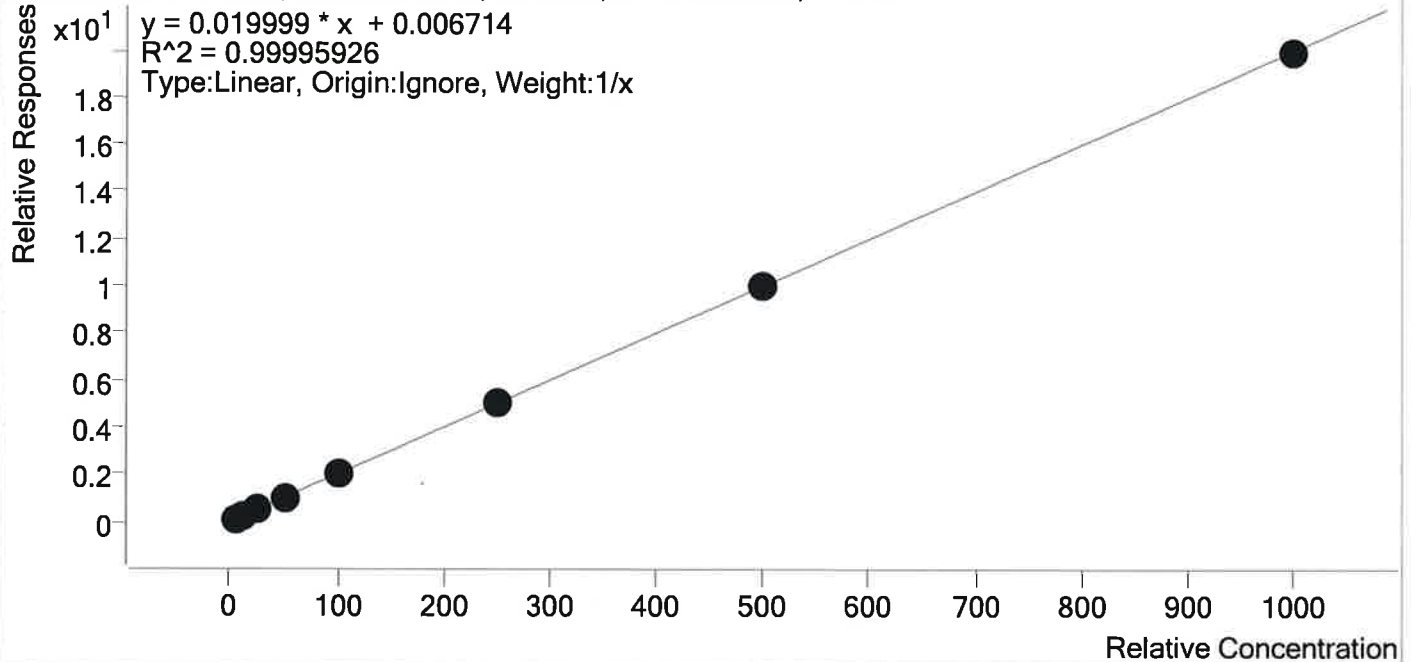
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.2
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	230.2	92.1
p1 Cal 7-500ng	7	×	500.0	385.8	77.2
p1 Cal 8-1000ng	8	×	1000.0	650.9	65.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Methadone **Internal Standard** Methadone-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.5
p1 Cal 4-50ng	4	✓	50.0	49.5	99.0
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	251.9	100.8
p1 Cal 7-500ng	7	✓	500.0	502.0	100.4
p1 Cal 8-1000ng	8	✓	1000.0	995.3	99.5

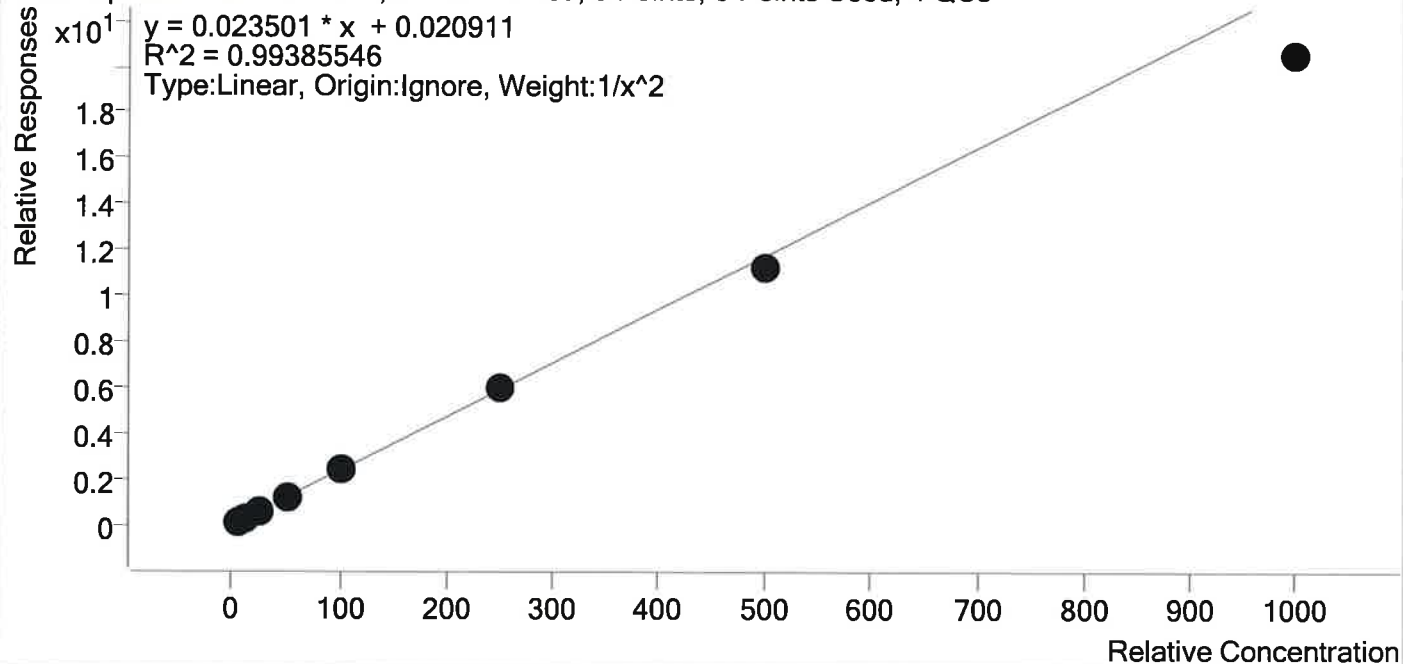
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.5
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	105.5	105.5
p1 Cal 6-250ng	6	✓	250.0	251.5	100.6
p1 Cal 7-500ng	7	✓	500.0	474.9	95.0
p1 Cal 8-1000ng	8	✓	1000.0	872.3	87.2

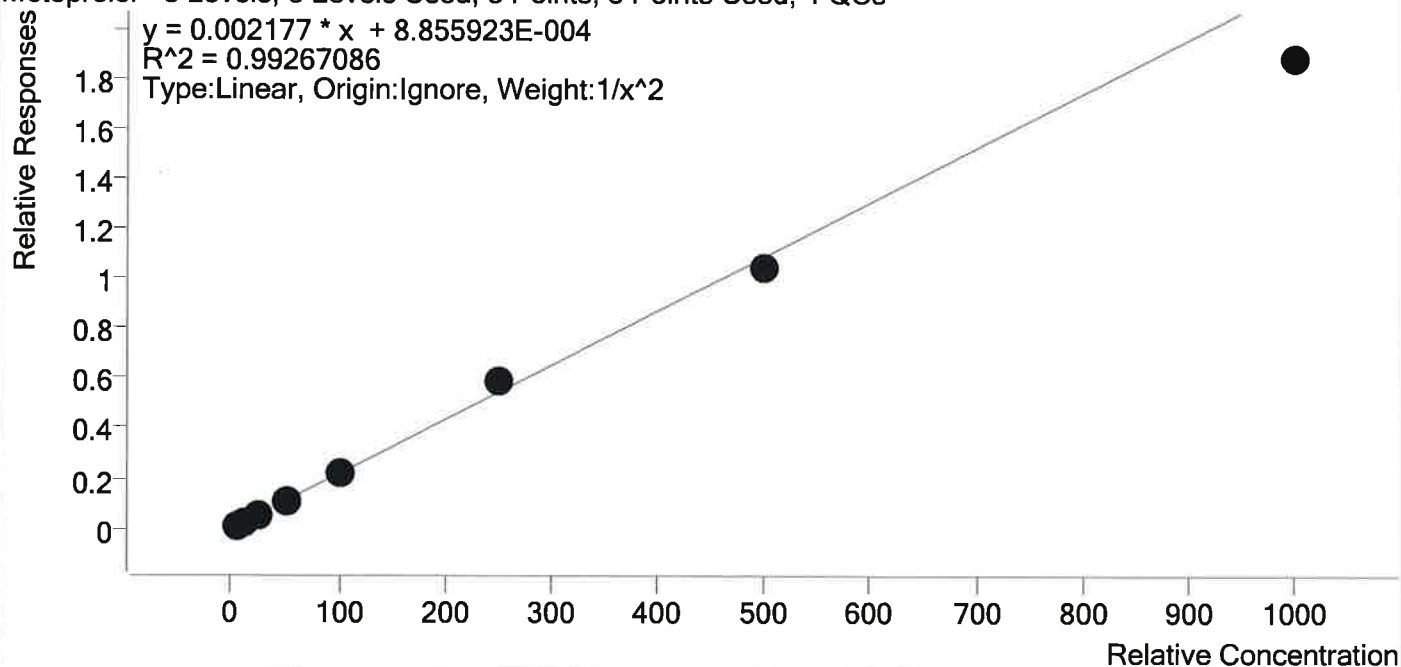
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

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



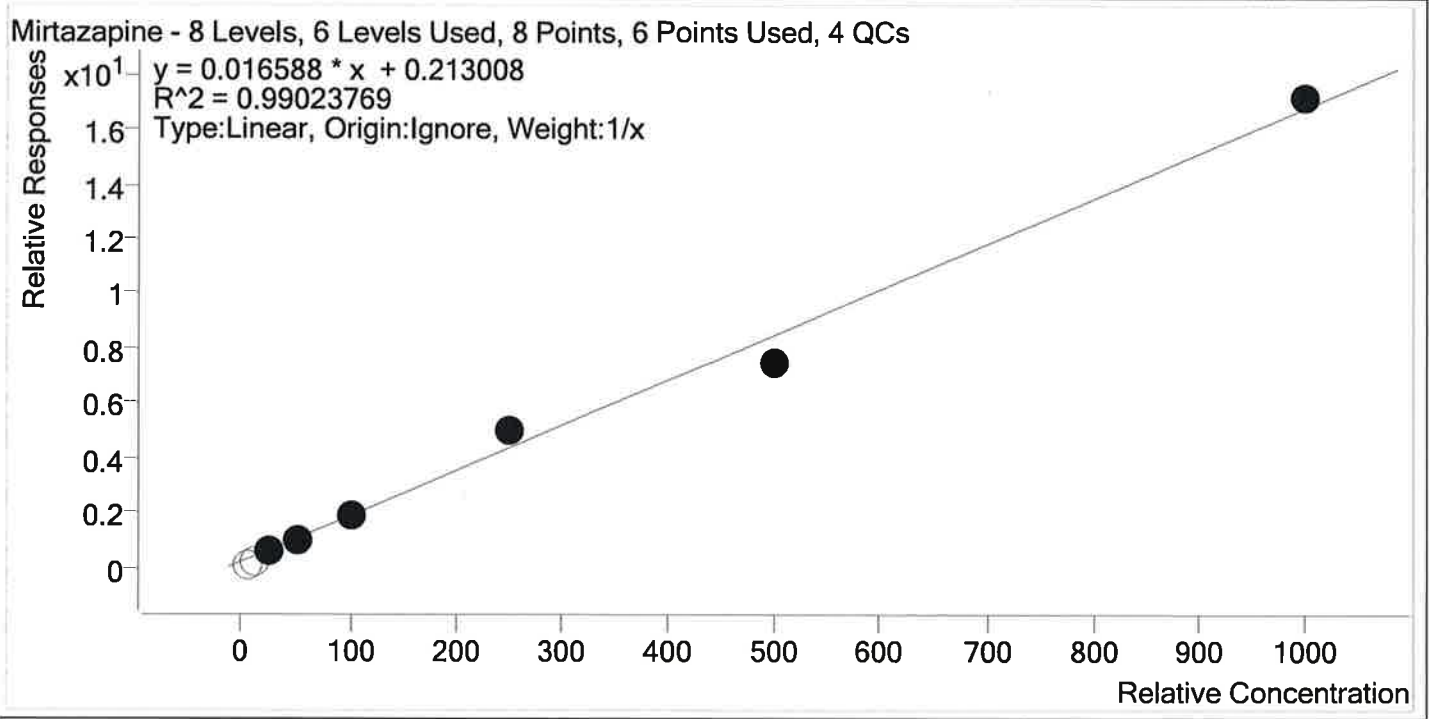
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.1
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.6
p1 Cal 4-50ng	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	272.1	108.8
p1 Cal 7-500ng	7	✓	500.0	476.6	95.3
p1 Cal 8-1000ng	8	✓	1000.0	863.3	86.3

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8



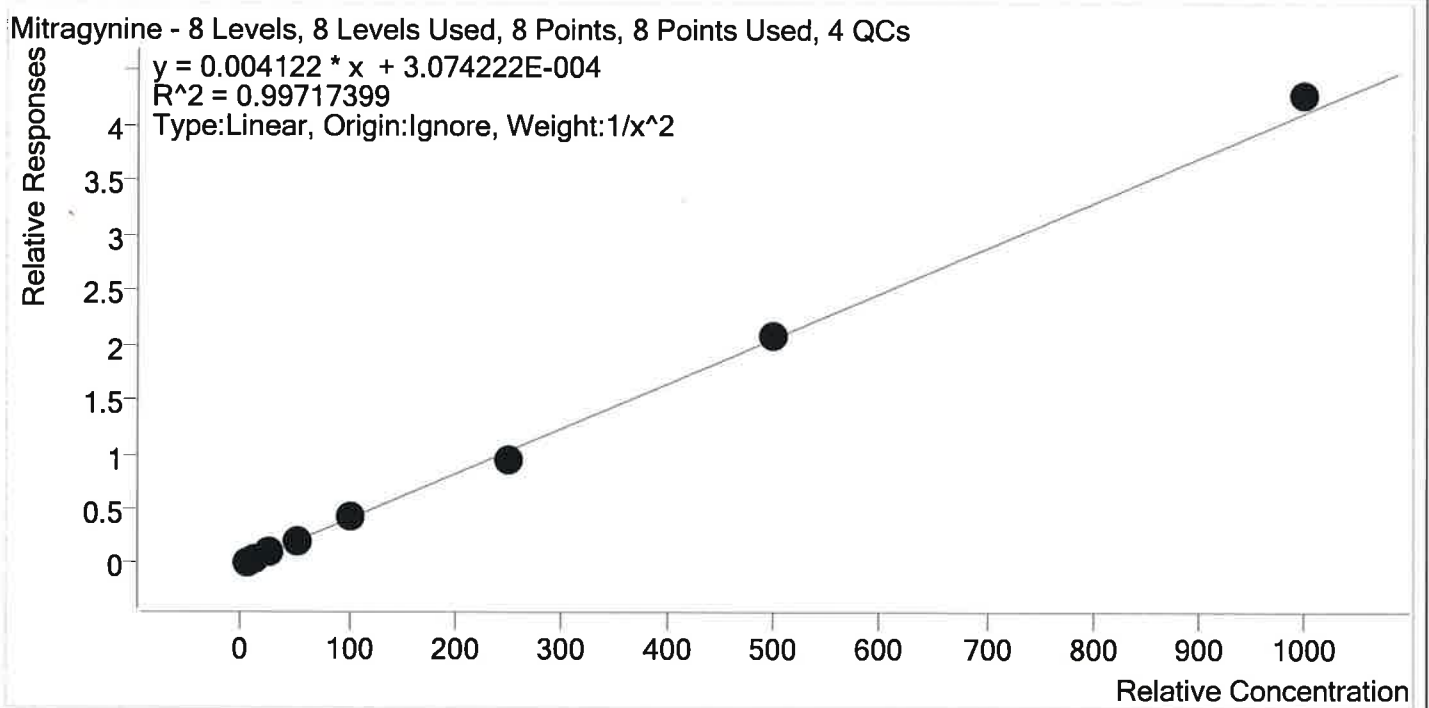
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	0.0	0.0
p1 Cal 2- 10ng	2	×	10.0	1.4	14.1
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	47.4	94.9
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	290.6	116.2
p1 Cal 7-500ng	7	✓	500.0	440.4	88.1
p1 Cal 8-1000ng	8	✓	1000.0	1022.7	102.3

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Mitragynine **Internal Standard** Methadone-D9



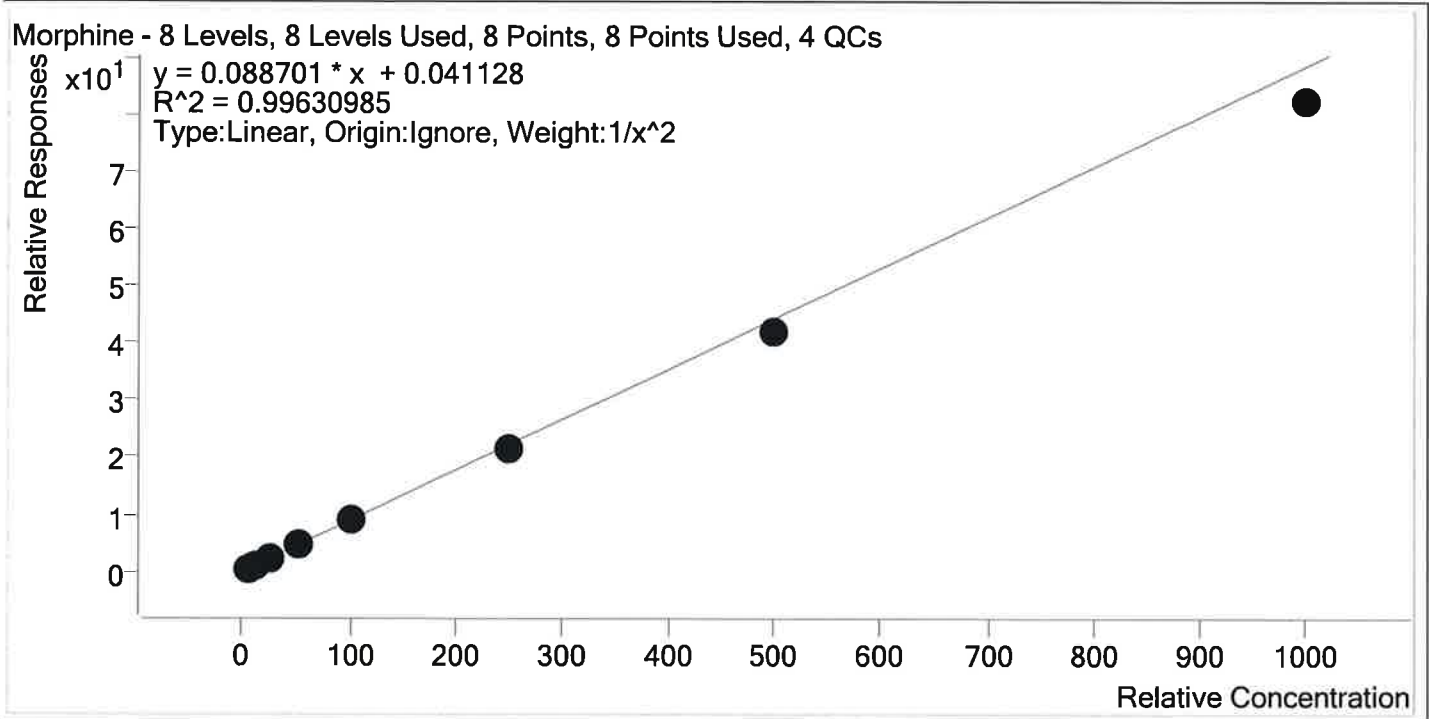
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.1
p1 Cal 4-50ng	4	✓	50.0	48.1	96.1
p1 Cal 5-100ng	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng	6	✓	250.0	227.6	91.0
p1 Cal 7-500ng	7	✓	500.0	507.7	101.5
p1 Cal 8-1000ng	8	✓	1000.0	1038.7	103.9

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Morphine **Internal Standard** Morphine-D6



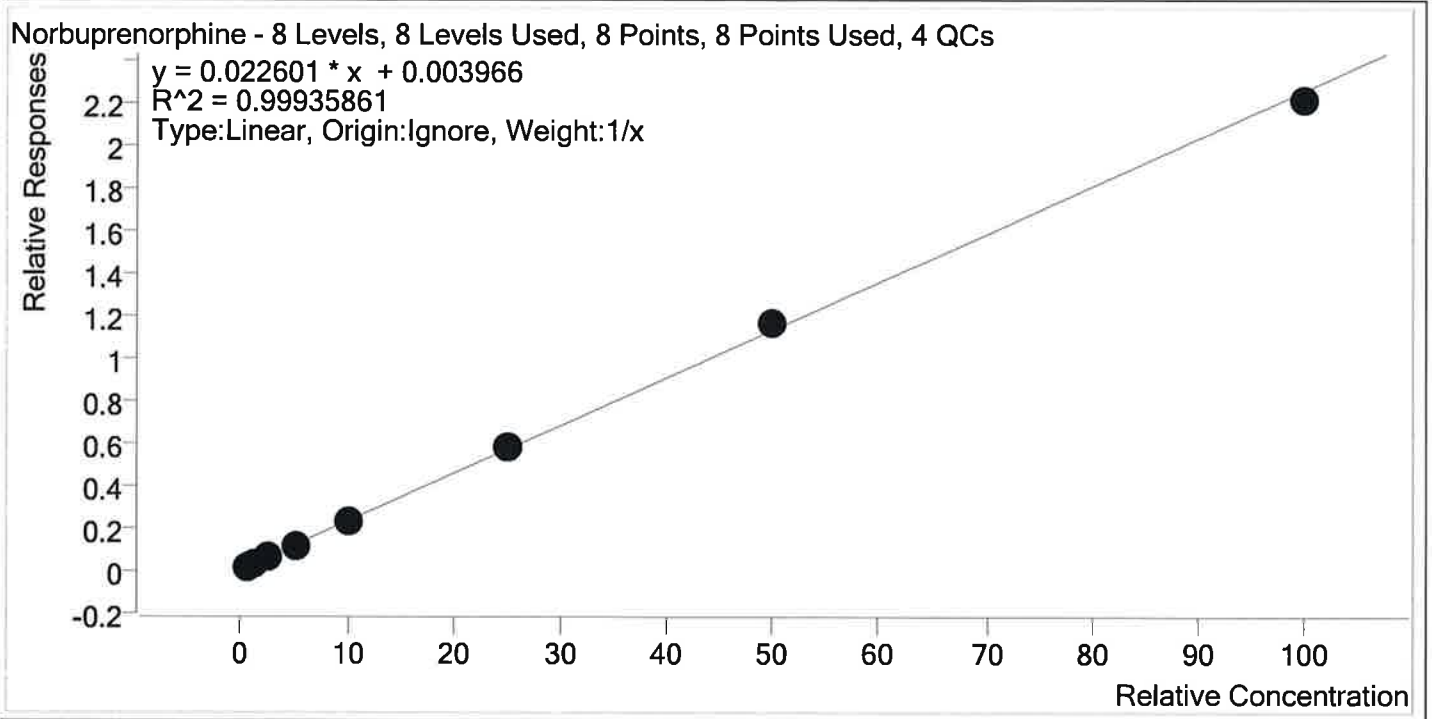
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.3
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.5
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.4
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	245.3	98.1
p1 Cal 7-500ng	7	✓	500.0	474.9	95.0
p1 Cal 8-1000ng	8	✓	1000.0	929.3	92.9

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\IP1 wklst 3106
 TS.batch.bin
Last Cal. Update 3/26/2019 1:46 PM
Analyst Name ISP\Datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	94.8
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.5
p1 Cal 3 -25ng	3	✓	2.5	2.7	106.4
p1 Cal 4-50ng	4	✓	5.0	4.8	96.6
p1 Cal 5-100ng	5	✓	10.0	10.3	102.6
p1 Cal 6-250ng	6	✓	25.0	25.2	101.0
p1 Cal 7-500ng	7	✓	50.0	51.5	103.1
p1 Cal 8-1000ng	8	✓	100.0	98.0	98.0

TS



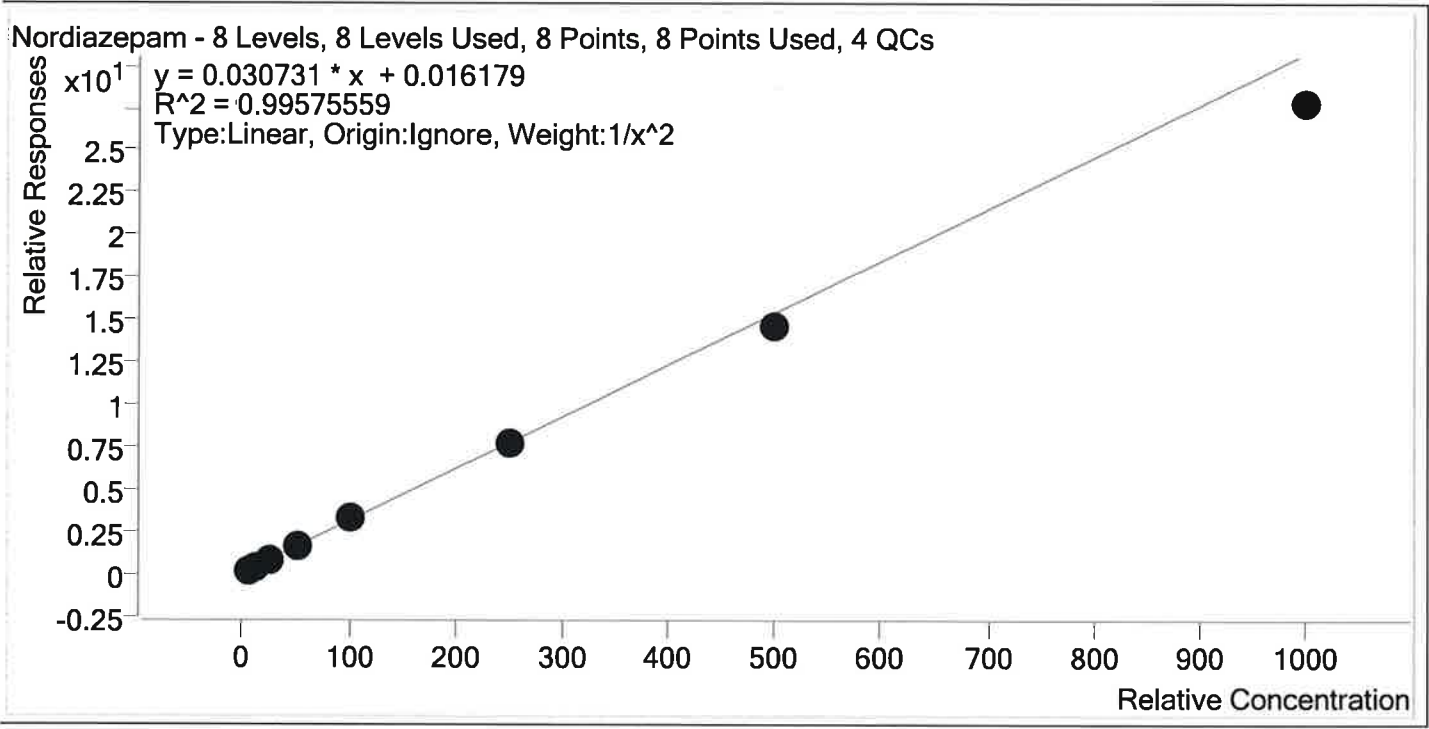
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
TS.batch.bin

Last Cal. Update 3/25/2019 3:07 PM

Analyst Name ISP\Datastor

Analyte Nordiazepam **Internal Standard** Nordiazepam-D5



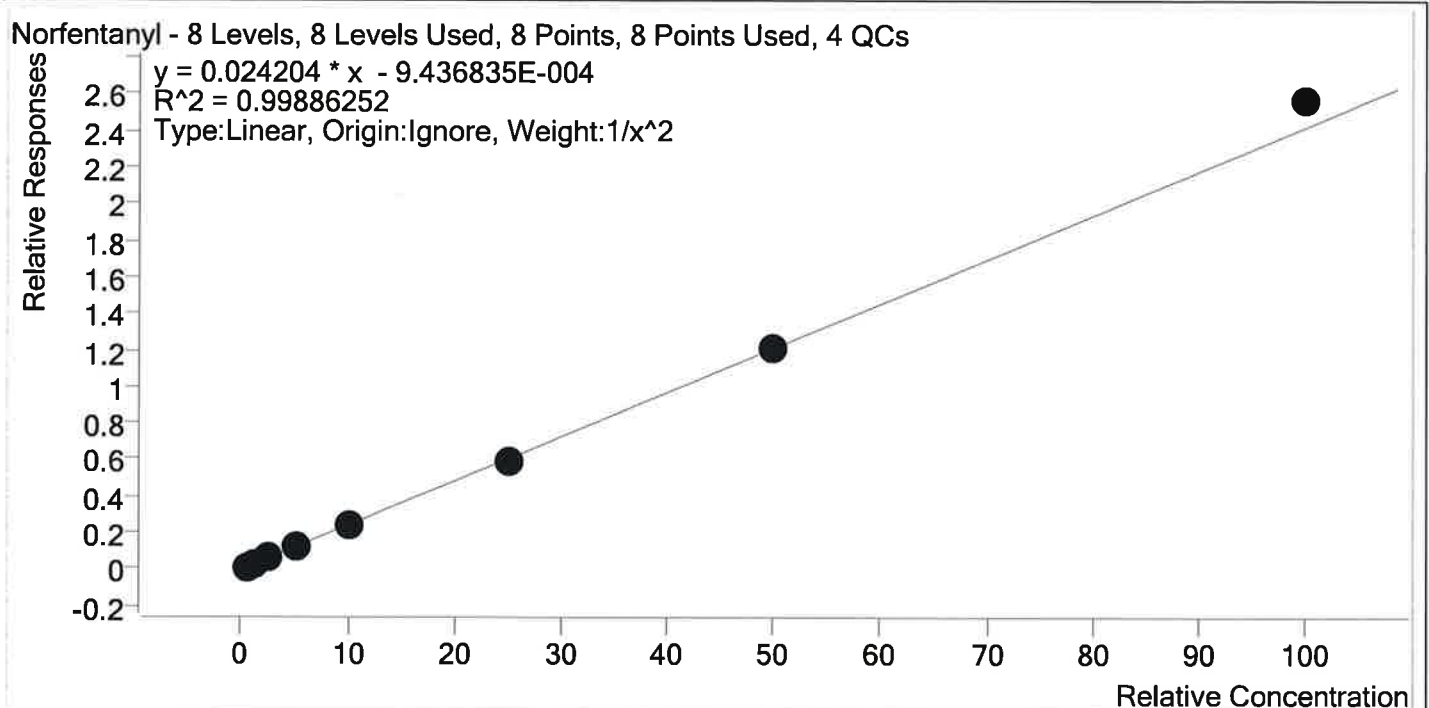
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.7
p1 Cal 4-50ng	4	✓	50.0	52.1	104.3
p1 Cal 5-100ng	5	✓	100.0	106.0	106.0
p1 Cal 6-250ng	6	✓	250.0	250.0	100.0
p1 Cal 7-500ng	7	✓	500.0	473.4	94.7
p1 Cal 8-1000ng	8	✓	1000.0	903.5	90.3

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5



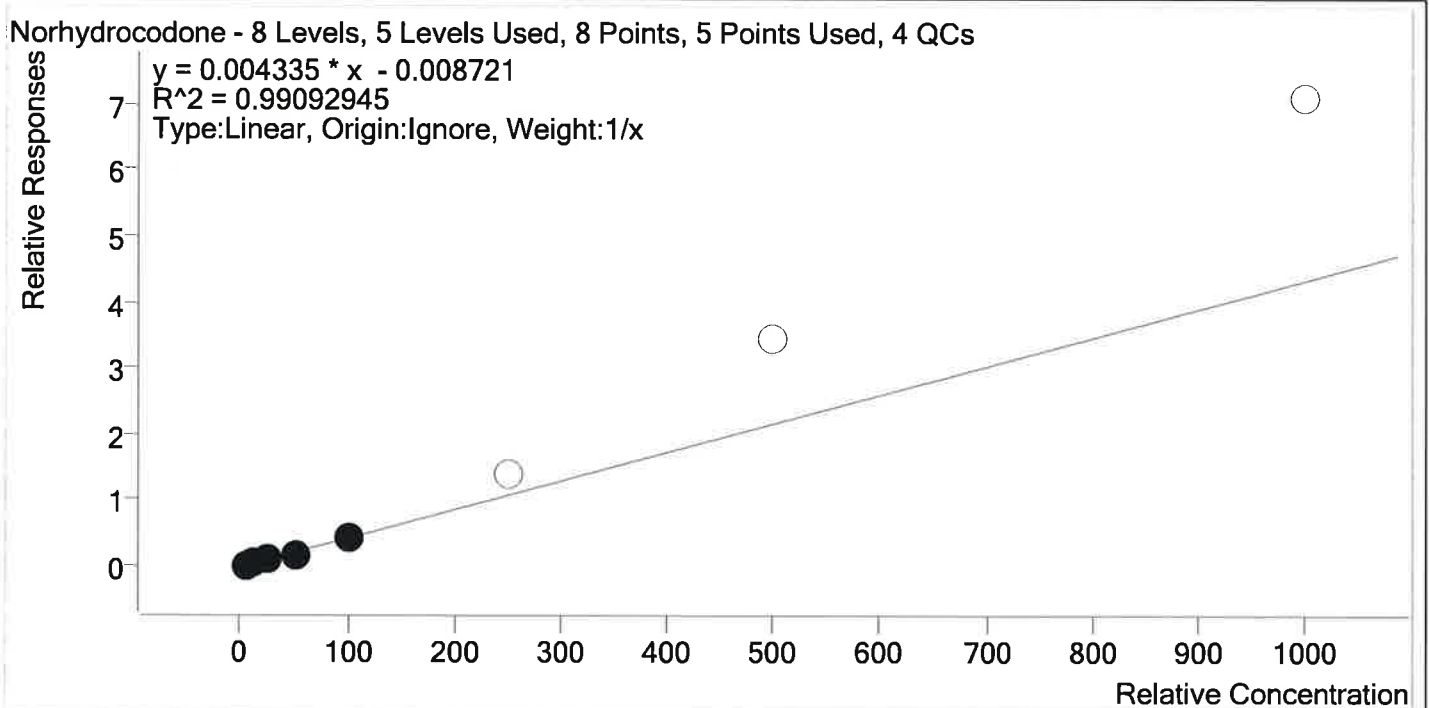
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	99.6
p1 Cal 2- 10ng	2	✓	1.0	1.0	102.0
p1 Cal 3 -25ng	3	✓	2.5	2.5	99.4
p1 Cal 4-50ng	4	✓	5.0	4.8	96.3
p1 Cal 5-100ng	5	✓	10.0	9.8	98.4
p1 Cal 6-250ng	6	✓	25.0	24.5	98.1
p1 Cal 7-500ng	7	✓	50.0	50.2	100.3
p1 Cal 8-1000ng	8	✓	100.0	106.0	106.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3



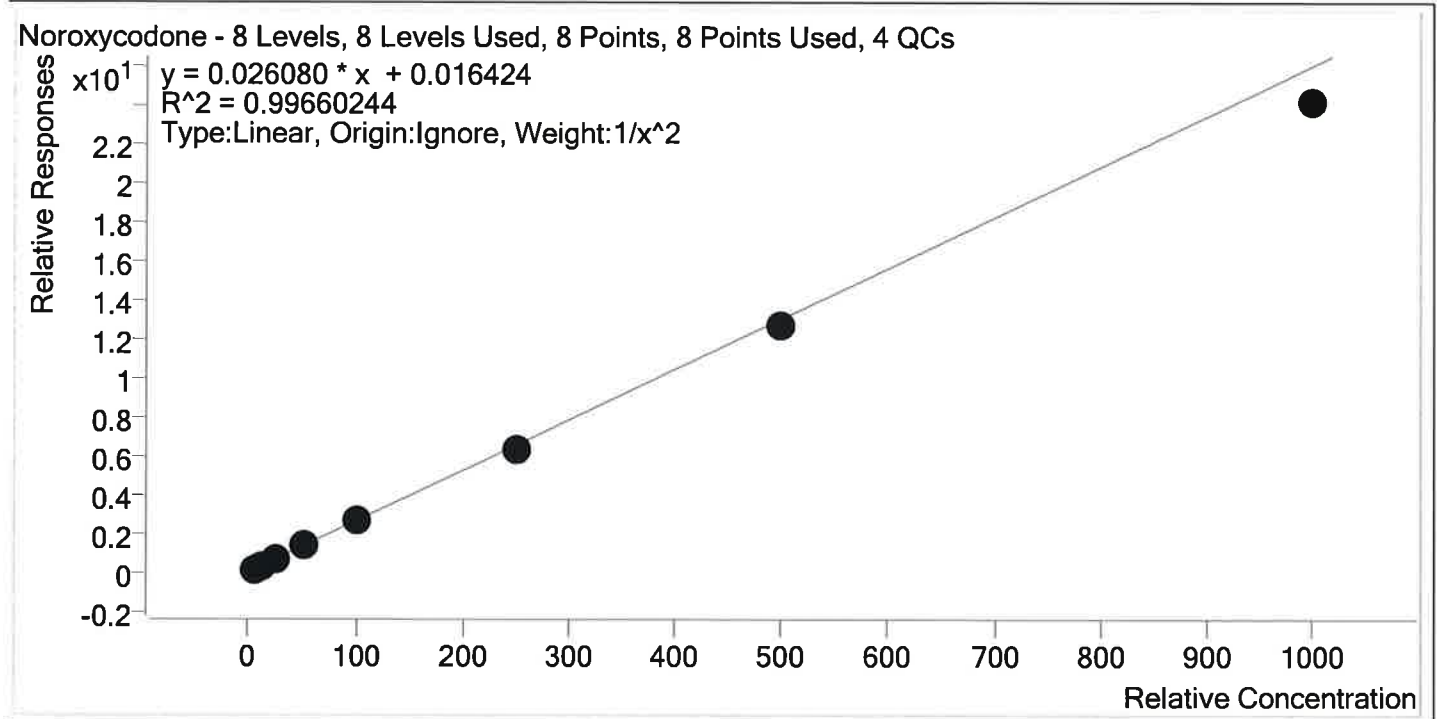
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	114.1
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.5
p1 Cal 3 -25ng	3	✓	25.0	22.4	89.6
p1 Cal 4-50ng	4	✓	50.0	45.8	91.6
p1 Cal 5-100ng	5	✓	100.0	106.3	106.3
p1 Cal 6-250ng	6	×	250.0	324.4	129.7
p1 Cal 7-500ng	7	×	500.0	801.7	160.3
p1 Cal 8-1000ng	8	×	1000.0	1635.4	163.5

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3



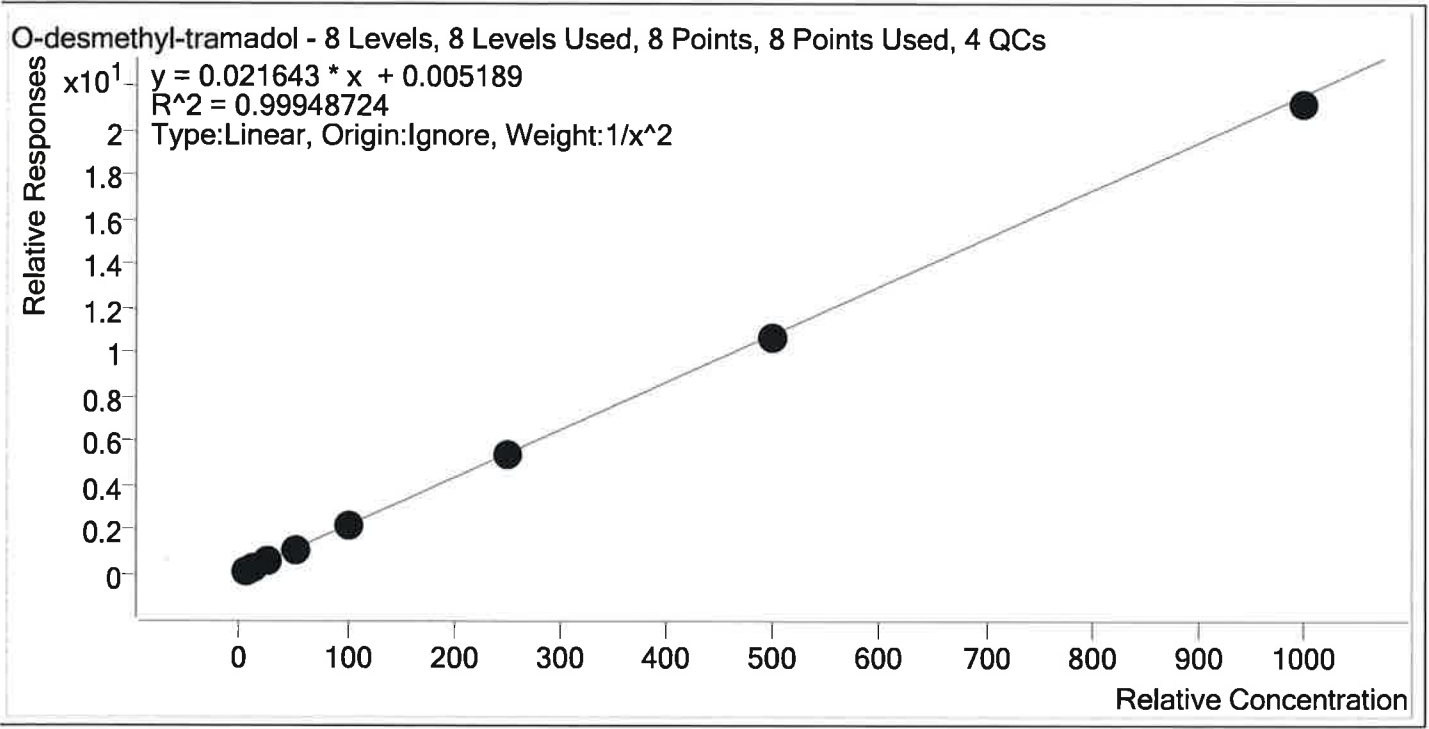
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.7	106.6
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng	4	✓	50.0	53.0	106.0
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	243.0	97.2
p1 Cal 7-500ng	7	✓	500.0	487.3	97.5
p1 Cal 8-1000ng	8	✓	1000.0	927.1	92.7

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.8
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
p1 Cal 7-500ng	7	✓	500.0	493.0	98.6
p1 Cal 8-1000ng	8	✓	1000.0	980.0	98.0

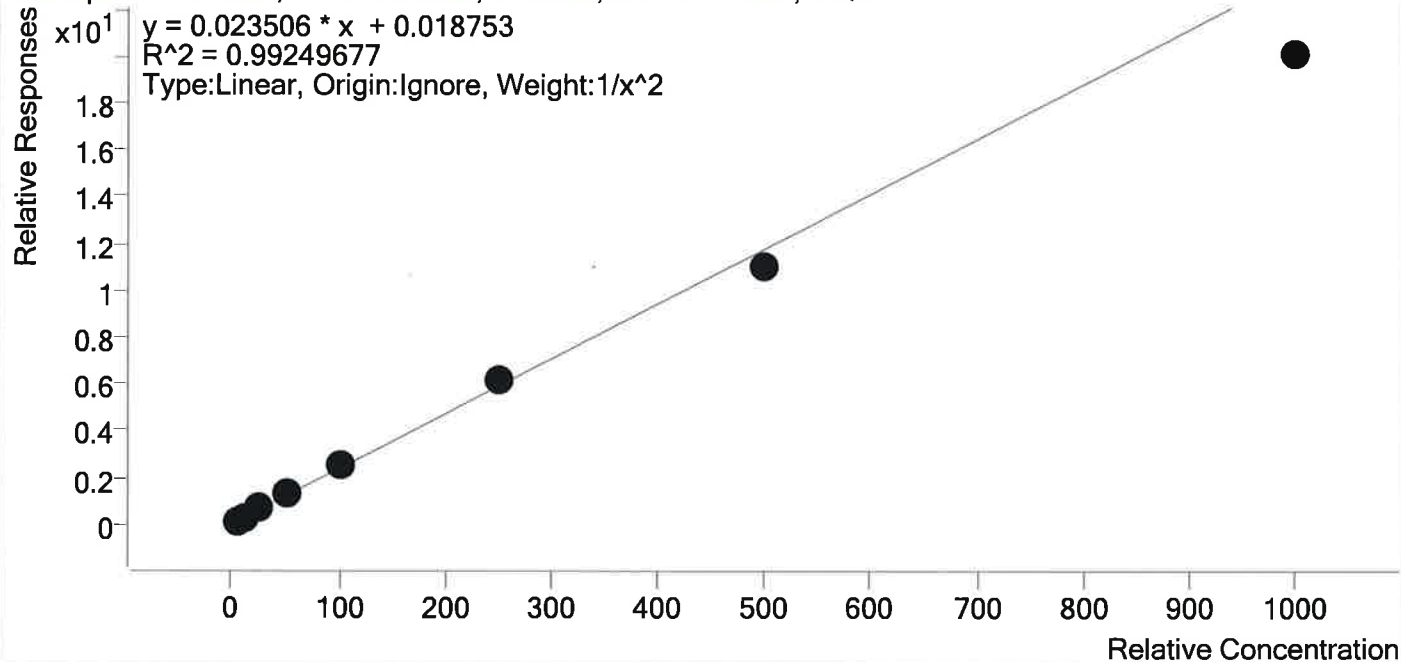
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

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



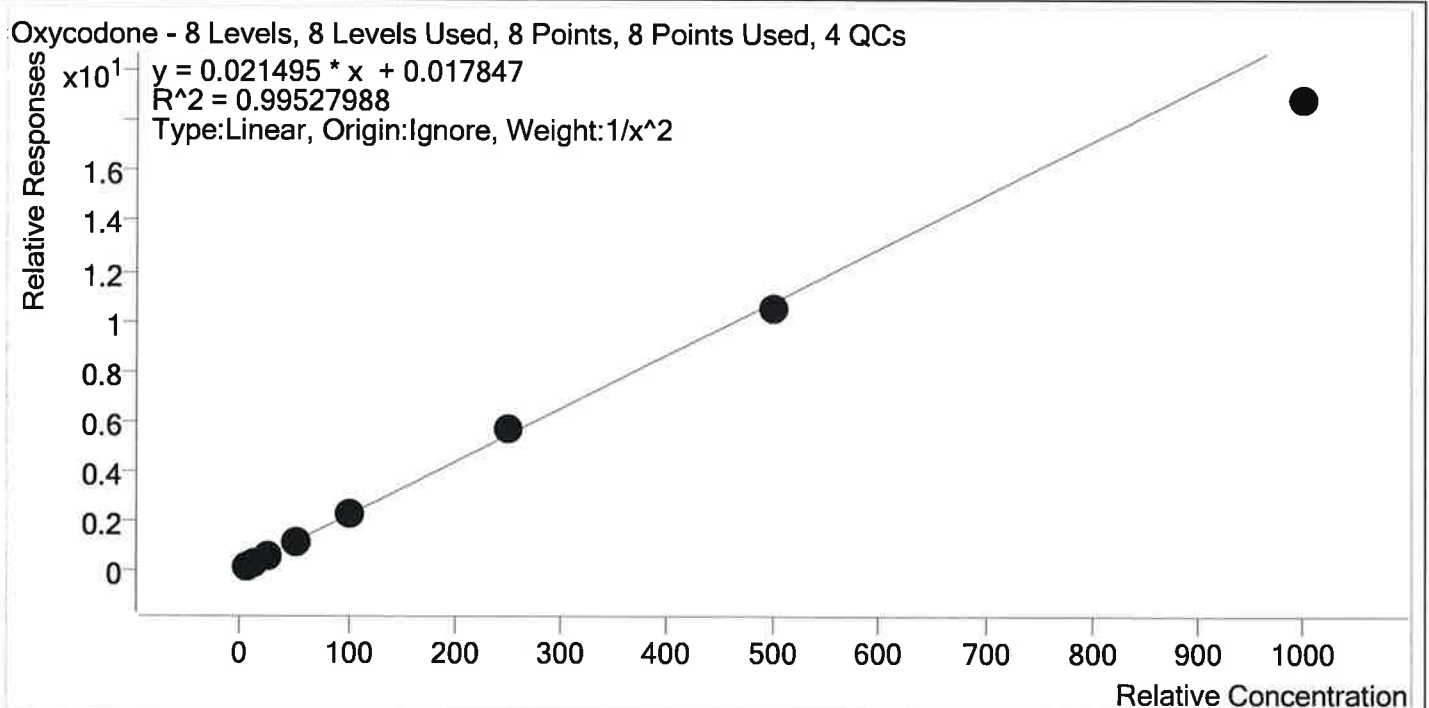
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.3
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	52.8	105.7
p1 Cal 5-100ng	5	✓	100.0	105.1	105.1
p1 Cal 6-250ng	6	✓	250.0	258.8	103.5
p1 Cal 7-500ng	7	✓	500.0	469.2	93.8
p1 Cal 8-1000ng	8	✓	1000.0	854.9	85.5

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6



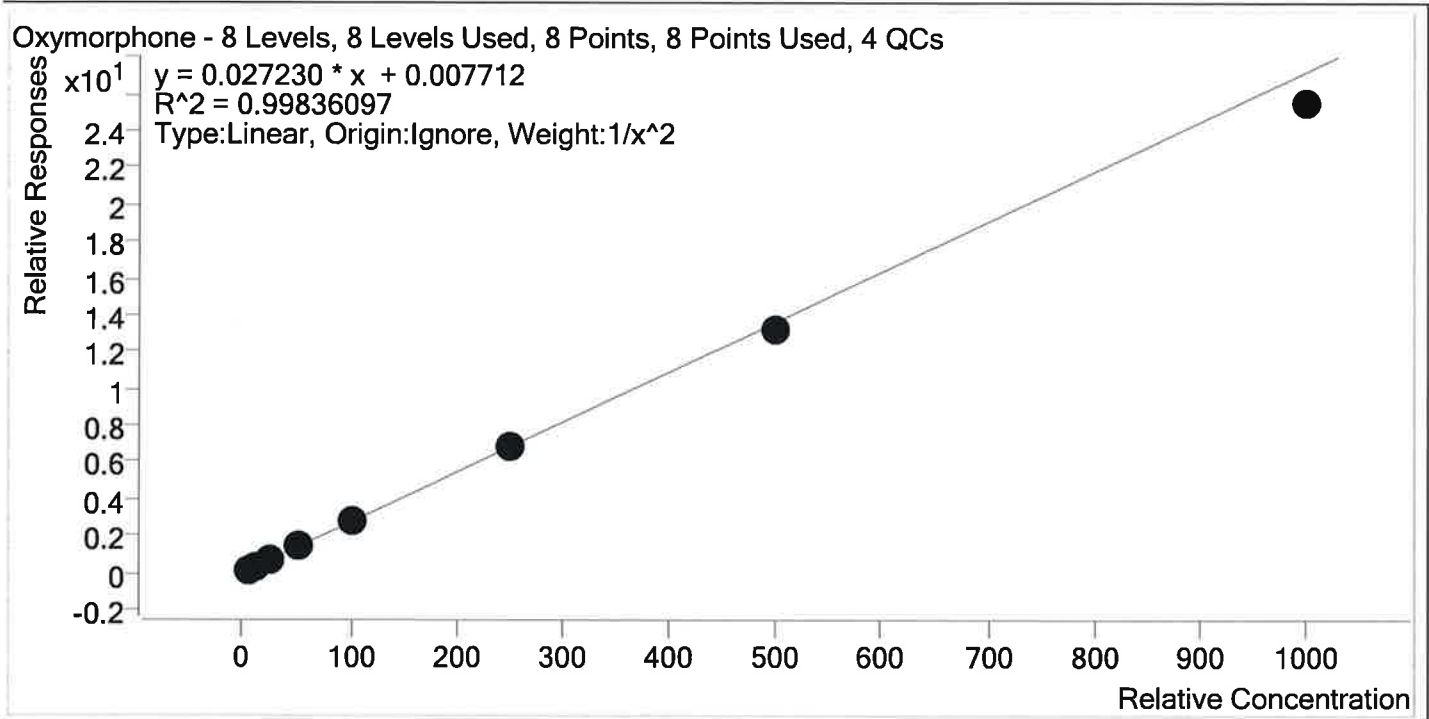
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.4
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.4
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	102.6	102.6
p1 Cal 6-250ng	6	✓	250.0	259.8	103.9
p1 Cal 7-500ng	7	✓	500.0	484.8	97.0
p1 Cal 8-1000ng	8	✓	1000.0	878.1	87.8

B



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3



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	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.8
p1 Cal 4-50ng	4	✓	50.0	51.5	102.9
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	485.4	97.1
p1 Cal 8-1000ng	8	✓	1000.0	937.1	93.7

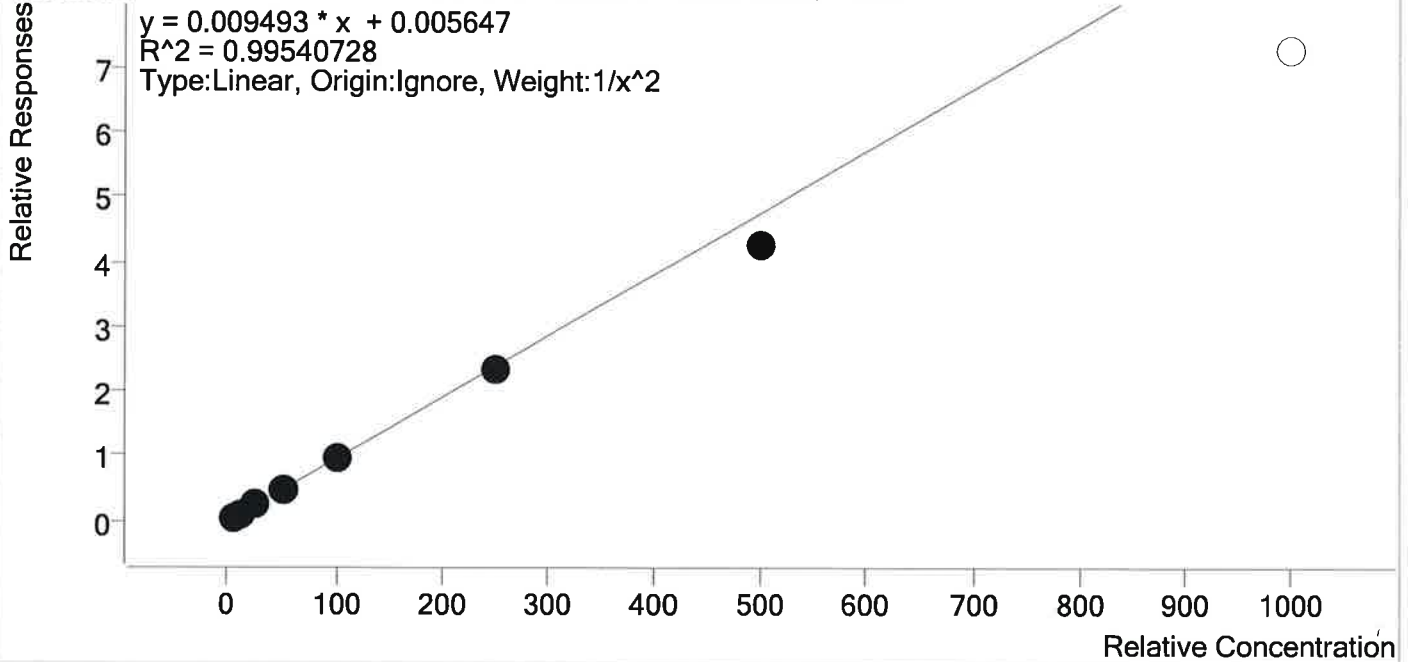
B



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
 Last Cal. Update 3/25/2019 3:07 PM
 Analyst Name ISP\Datastor
 Analyte Phentermine Internal Standard Phentermine-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p1 Cal 4-50ng	4	✓	50.0	51.5	102.9
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	246.5	98.6
p1 Cal 7-500ng	7	✓	500.0	445.2	89.0
p1 Cal 8-1000ng	8	×	1000.0	762.6	76.3

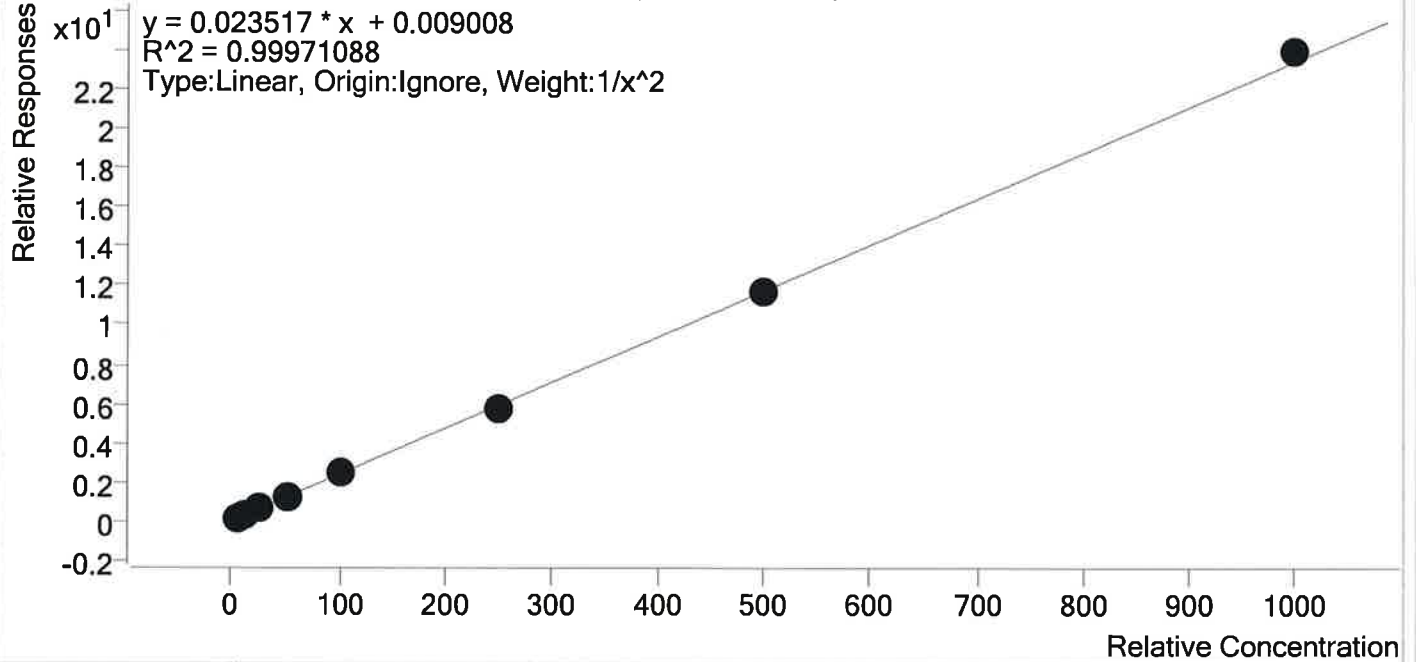
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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



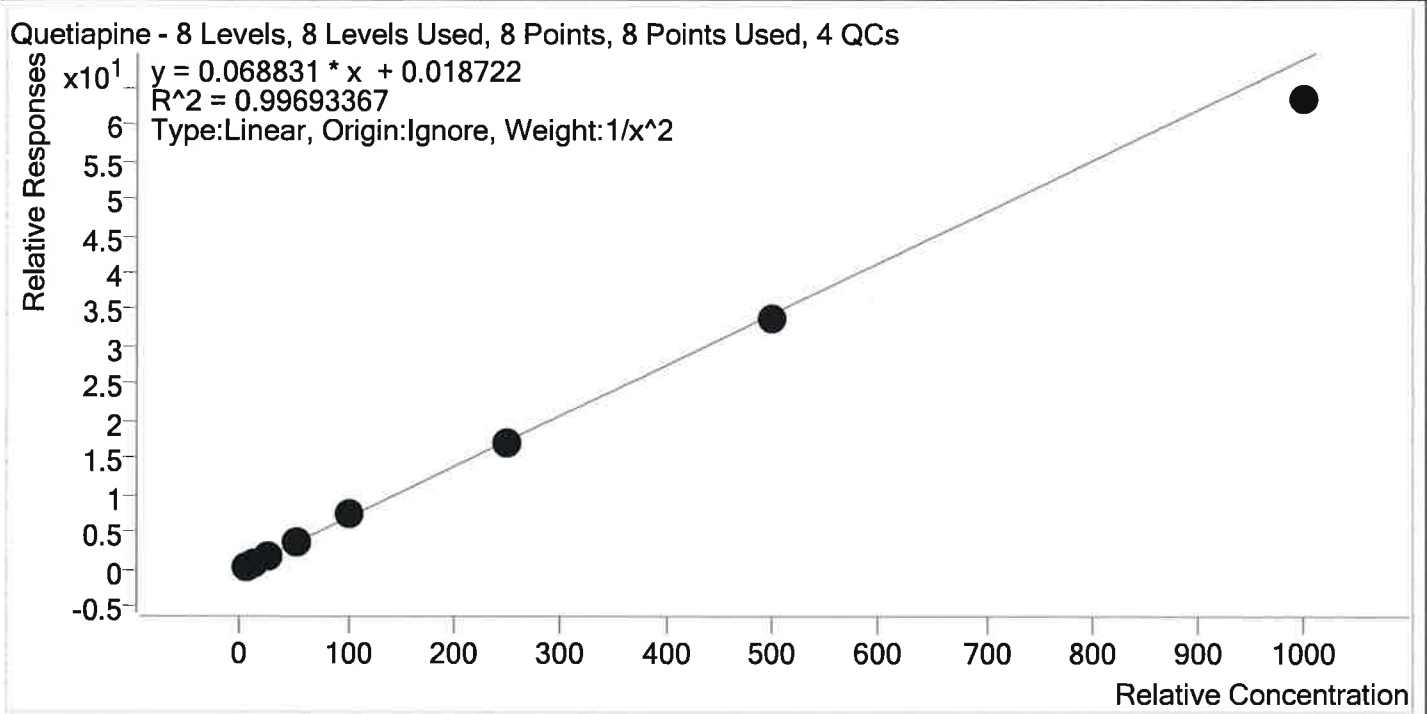
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	48.9	97.7
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	247.0	98.8
p1 Cal 7-500ng	7	✓	500.0	496.0	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1022.3	102.2

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.0
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	106.0	106.0
p1 Cal 6-250ng	6	✓	250.0	243.9	97.6
p1 Cal 7-500ng	7	✓	500.0	493.7	98.7
p1 Cal 8-1000ng	8	✓	1000.0	920.7	92.1

15



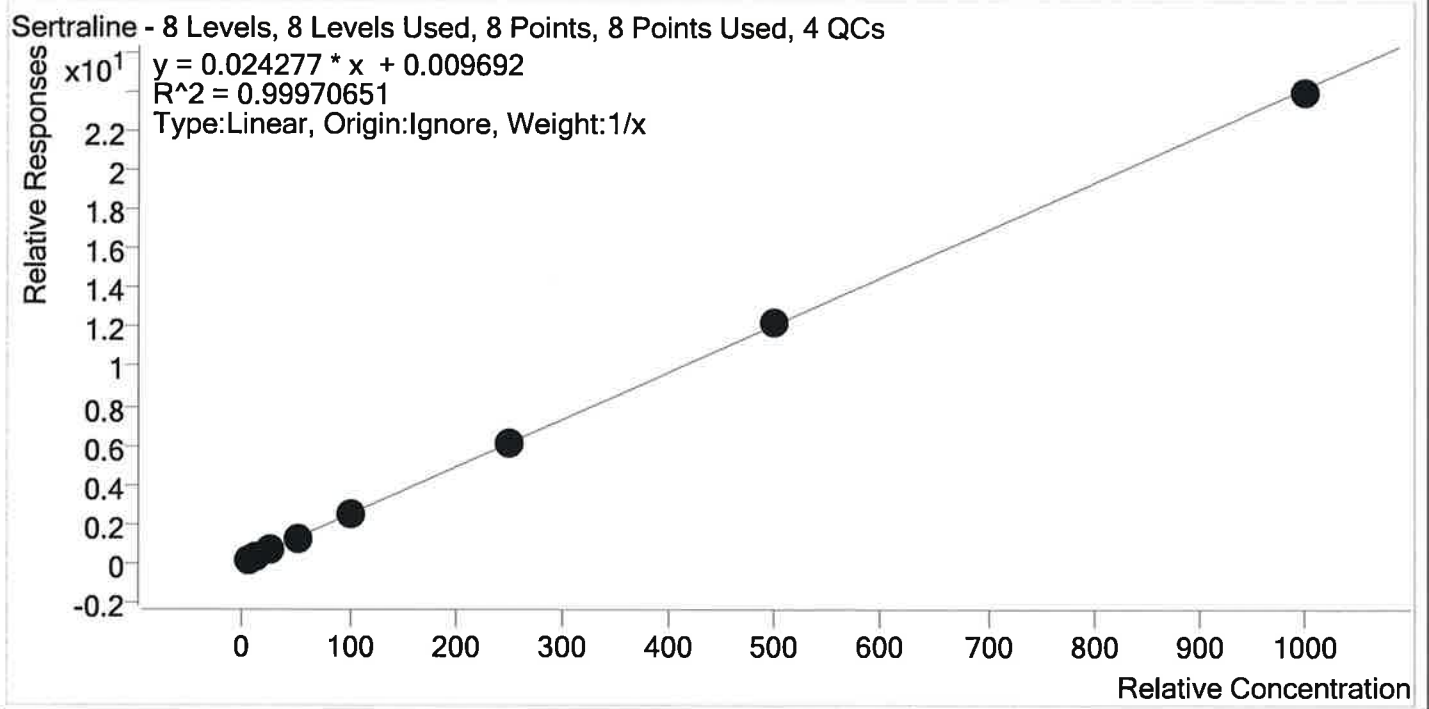
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
TS.batch.bin

Last Cal. Update 3/25/2019 3:07 PM

Analyst Name ISP\Datastor

Analyte Sertraline **Internal Standard** Sertraline-D3



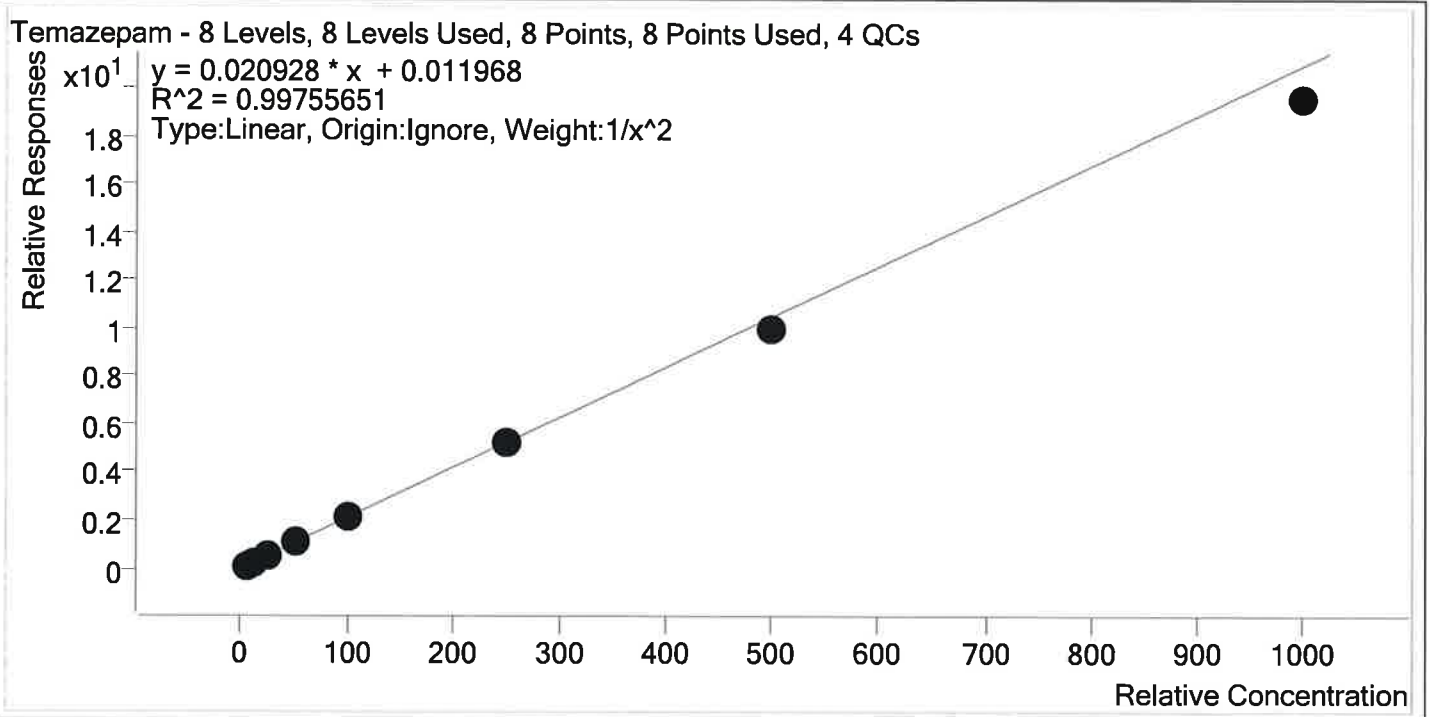
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	47.4	94.7
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	507.7	101.5
p1 Cal 8-1000ng	8	✓	1000.0	990.2	99.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Temazepam **Internal Standard** Temazepam-D5



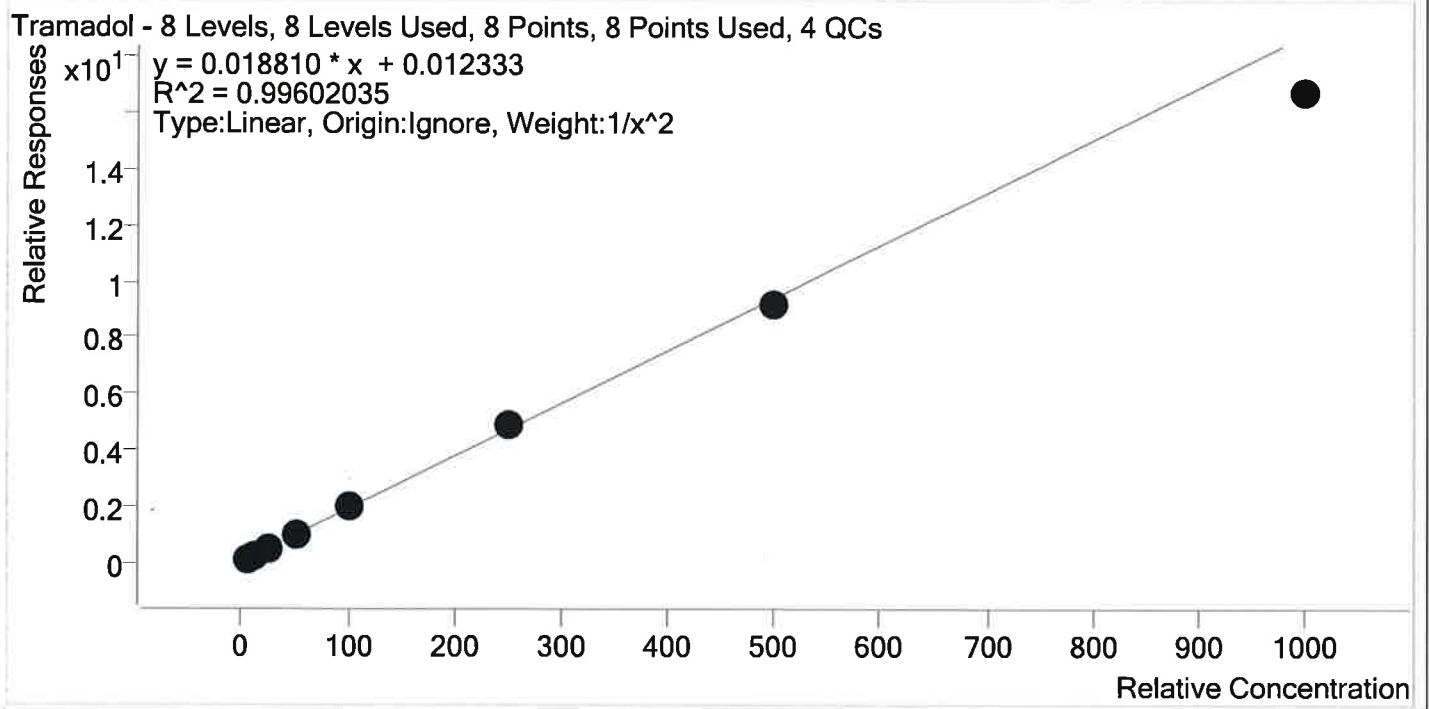
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.6
p1 Cal 4-50ng	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	251.2	100.5
p1 Cal 7-500ng	7	✓	500.0	479.0	95.8
p1 Cal 8-1000ng	8	✓	1000.0	932.5	93.3

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3



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	10.4	104.4
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	105.8	105.8
p1 Cal 6-250ng	6	✓	250.0	256.6	102.7
p1 Cal 7-500ng	7	✓	500.0	484.8	97.0
p1 Cal 8-1000ng	8	✓	1000.0	890.7	89.1

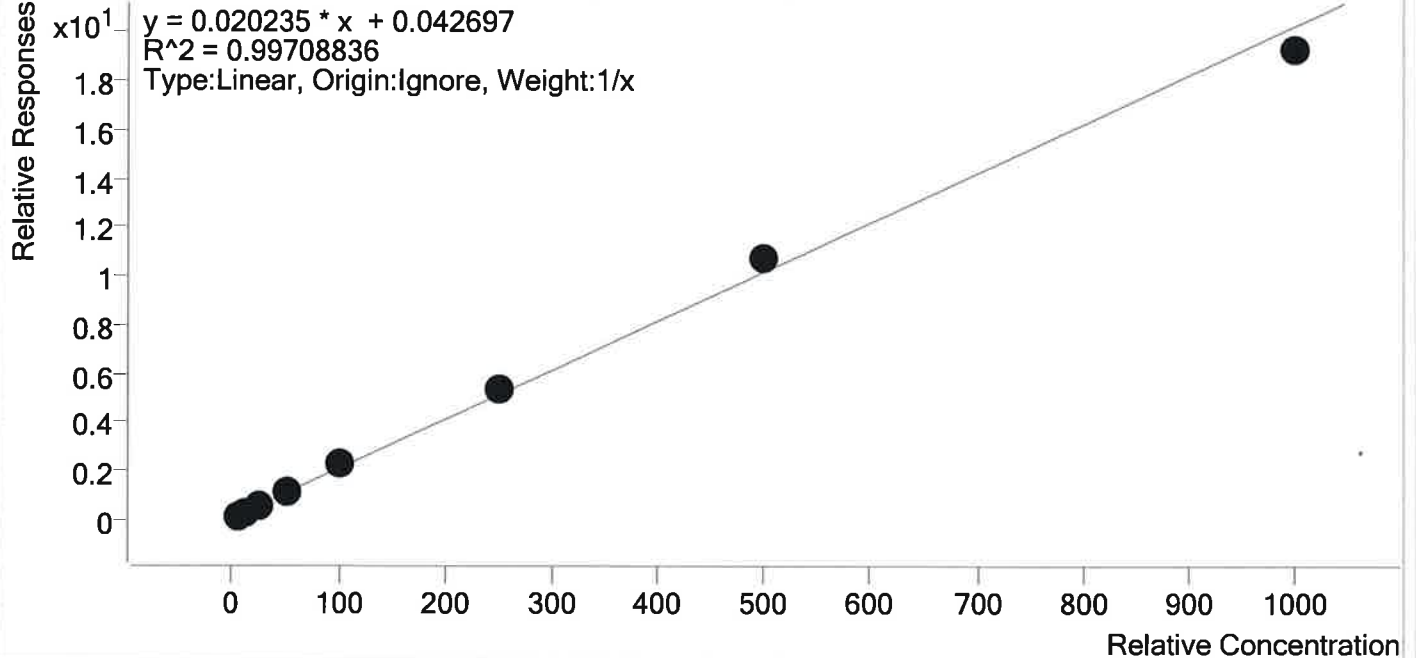
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
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Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	83.4
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.2
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.5
p1 Cal 4-50ng	4	✓	50.0	51.3	102.5
p1 Cal 5-100ng	5	✓	100.0	107.9	107.9
p1 Cal 6-250ng	6	✓	250.0	262.7	105.1
p1 Cal 7-500ng	7	✓	500.0	526.4	105.3
p1 Cal 8-1000ng	8	✓	1000.0	952.0	95.2

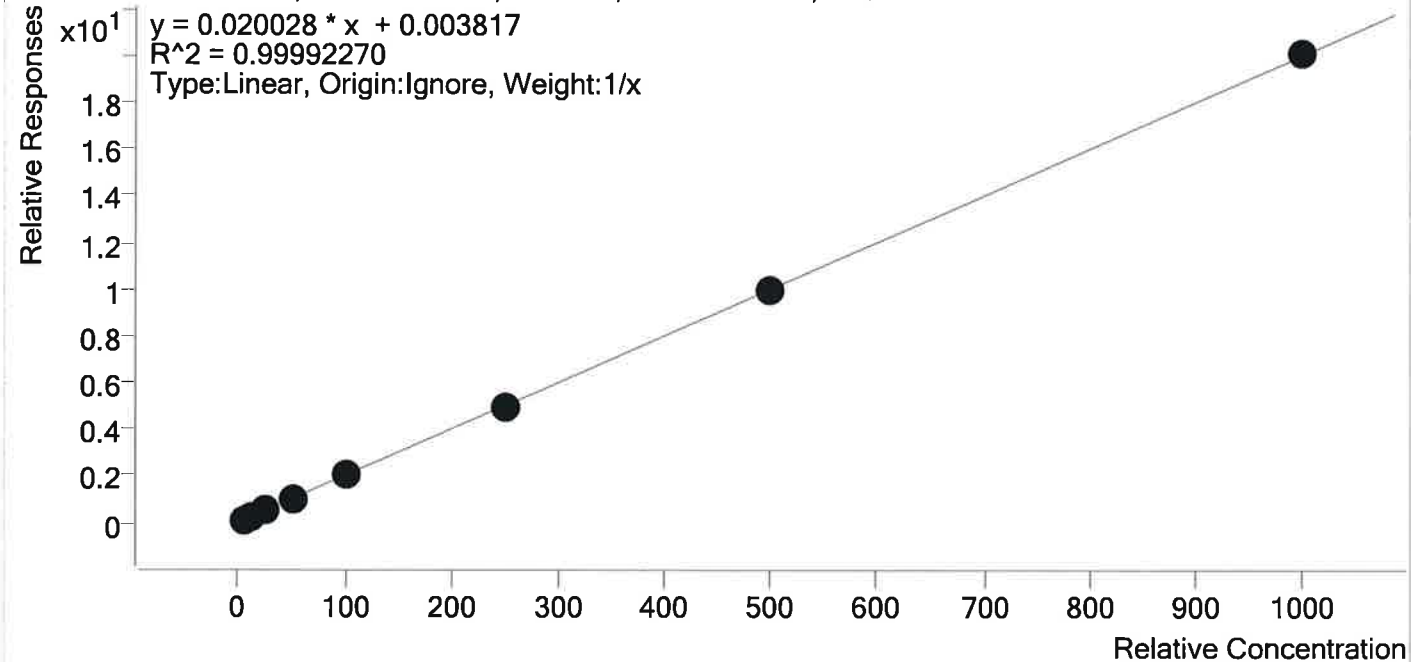
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

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



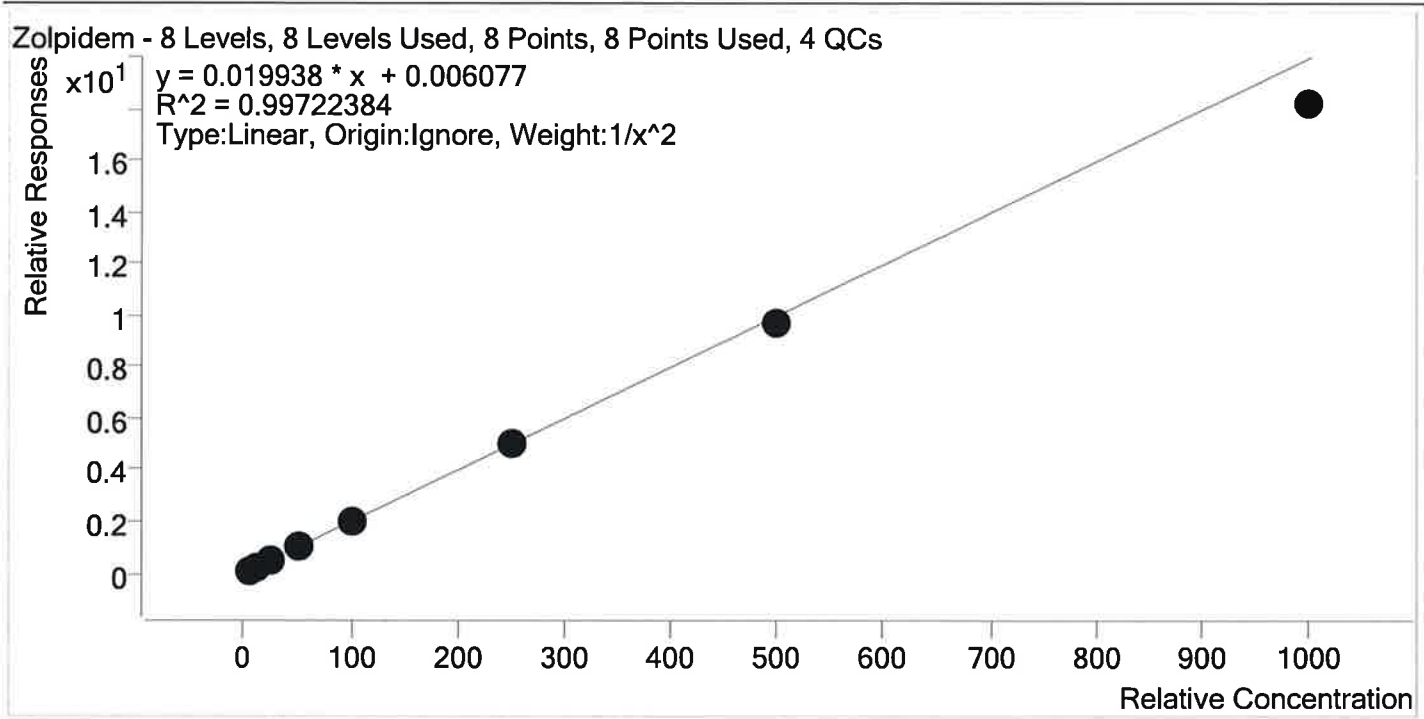
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	50.0	99.9
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
p1 Cal 7-500ng	7	✓	500.0	498.3	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1004.5	100.4

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106
 TS.batch.bin
Last Cal. Update 3/25/2019 3:07 PM
Analyst Name ISP\Datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.7
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.7
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.1
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng	6	✓	250.0	253.5	101.4
p1 Cal 7-500ng	7	✓	500.0	485.3	97.1
p1 Cal 8-1000ng	8	✓	1000.0	912.6	91.3

TS

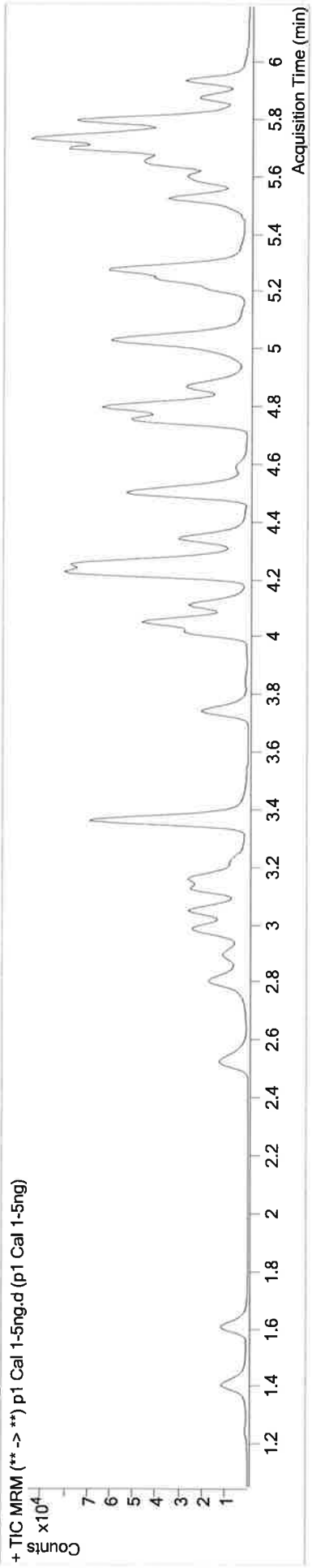


AM #28 Multi-Drug Quant. Results

Batch results
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 3/26/2019 1:46:35 PM

Instrument FALCO-LCMS (Property ID 069901)
Type Cal
Acq. Method MDQ P1 Combined 0111619.m
Sample Position P1-A1
Injection Volume 1
Acq. Date-Time 3/21/2019 11:27:48 PM
Sample Info. p1 Cal 1-5ng.d
 p1 Cal 1-5ng
 Tamara Salazar

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	812	122.86	71.2	192.79	49796	0.5084 ng/ml
7-aminoclonazepam	4.240	4205	591.00	76.6	707.36	34982	4.7772 ng/ml
a-hydroxylprazolam	5.683	3088	268.06	68.5	1782.93	29601	4.7795 ng/ml
alpha-PVP	4.353	6526	5968.01	52.9	197.14	59105	4.6957 ng/ml
Alprazolam	5.760	6779	629.02	99.2	292.71	39944	4.4149 ng/ml
Amphetamine	3.062	10128	288.22	59.4	453.11	28858	4.7439 ng/ml
Buprenorphine	5.681	437	16.52	18.1	108.82	33137	0.5142 ng/ml
Bupropion	4.776	16831	1586.00	60.4	324.87	117649	4.4729 ng/ml
Carisoprodol	5.715	8569	∞	57.6	71.20	88896	4.8192 ng/ml
Citalopram	5.216	4156	186.80	42.3	277.70	31530	5.1265 ng/ml
Clonazepam	5.596	5468	∞	38.1	329.86	17639	4.7192 ng/ml
Cocaine	4.259	6806	∞	43.8	710.66	130213	4.8388 ng/ml
Codeine	2.583	1158	2572.69	103.3	290.82	10654	4.0296 ng/ml
Cyclobenzaprine	5.612	3459	1198.14	11.0	19.88	28804	4.9075 ng/ml
Dextromethorphan	5.258	2228	189.13	80.0	321.15	21640	4.8804 ng/ml
Dextropropfan	4.115	2059	1407.86	210.3	1099.90	47994	4.6159 ng/ml
Diazepam	5.945	4536	1547.88	89.2	∞	41306	4.8663 ng/ml
Dihydrocodeine	2.555	2727	1395.32	68.1	561.69	29004	4.8712 ng/ml

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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.286	10578	2826.67	34.2	546.83	109823	109823	4.8609 ng/ml
Doxylamine	4.522	14066	6495.73	96.8	5789.72	128629	128629	4.2191 ng/ml
EDDP	5.251	5355	337.95	40.2	333.49	53260	53260	4.8238 ng/ml
Fentanyl	5.066	323	256.28	86.3	175.47	33836	33836	0.4953 ng/ml
Fluoxetine	5.705	4867	1104.97	9.9	1161.90	35618	35618	4.7942 ng/ml
Hydrocodone	3.018	3325	172.44	36.3	66.22	37937	37937	4.7328 ng/ml
Hydromorphone	1.621	3832	333.12	74.9	289.25	27574	27574	4.8755 ng/ml
Ketamine	4.035	6554	807.32	36.6	∞	59331	59331	4.8433 ng/ml
Lamotrigine	4.277	791	245.73	79.7	409.43	59331	59331	4.8146 ng/ml
Lorazepam	5.738	14033	281.25	53.4	34.14	17639	17639	4.8060 ng/ml
Meprobamate	4.899	6250	5519.43	26.4	802.16	53944	53944	4.8739 ng/ml
Methadone	5.650	5909	∞	51.7	294.55	57288	57288	4.8215 ng/ml
Methamphetamine	3.231	7250	269.00	43.0	74.61	54440	54440	4.7769 ng/ml
Metoprolol	4.322	1613	1464.79	96.1	271.84	143228	143228	4.7676 ng/ml
Mitragynine	5.201	1179	497.92	38.4	620.73	57288	57288	4.9189 ng/ml
Morphine	1.253	851	321.55	23.8	237.30	1835	1835	4.7665 ng/ml
Norbuprenorphine	4.982	150	62.59	102.3	33.78	10224	10224	0.4742 ng/ml
Nordiazepam	5.885	4783	1524.36	57.9	782.65	29129	29129	4.8164 ng/ml
Norfentanyl	4.084	1094	588.59	39.9	77.77	98447	98447	0.4980 ng/ml
Norhydrocodone	3.073	698	40.44	41.3	33.60	43594	43594	5.7041 ng/ml
Noroxycodone	2.921	3502	55.80	49.8	28.77	24847	24847	4.7747 ng/ml
O-desmethyl-tramadol	3.373	17092	2556.39	6.7	351.91	153751	153751	4.8967 ng/ml
Oxazepam	5.741	14618	109.63	67.0	55.59	111609	111609	4.7741 ng/ml
Oxycodone	2.833	6185	92.44	31.7	94.55	51049	51049	4.8060 ng/ml
Oxymorphone	1.410	4340	218.73	48.8	233.45	30834	30834	4.8861 ng/ml
Phentermine	3.781	2644	190.11	4.3	8.47	51362	51362	4.8288 ng/ml
Promethazine	5.529	6890	1343.33	27.7	329.21	54336	54336	5.0091 ng/ml
Quetiapine	5.511	4316	1989.14	60.6	470.74	12330	12330	4.8132 ng/ml
Sertraline	5.774	2507	104.91	88.0	394.93	19510	19510	4.8949 ng/ml
Temazepam	5.808	13577	415.55	32.2	21.33	120295	120295	4.8212 ng/ml
Tramadol	4.235	14803	936.60	3.2	∞	143228	143228	4.8391 ng/ml
Trazodone	5.052	4621	562.52	76.9	958.64	36370	36370	4.1684 ng/ml
Venlafaxine	5.033	10218	2304.03	38.6	145.60	100558	100558	4.8831 ng/ml
Zolpidem	4.821	13643	2033.73	31.2	∞	133196	133196	4.8326 ng/ml

TS

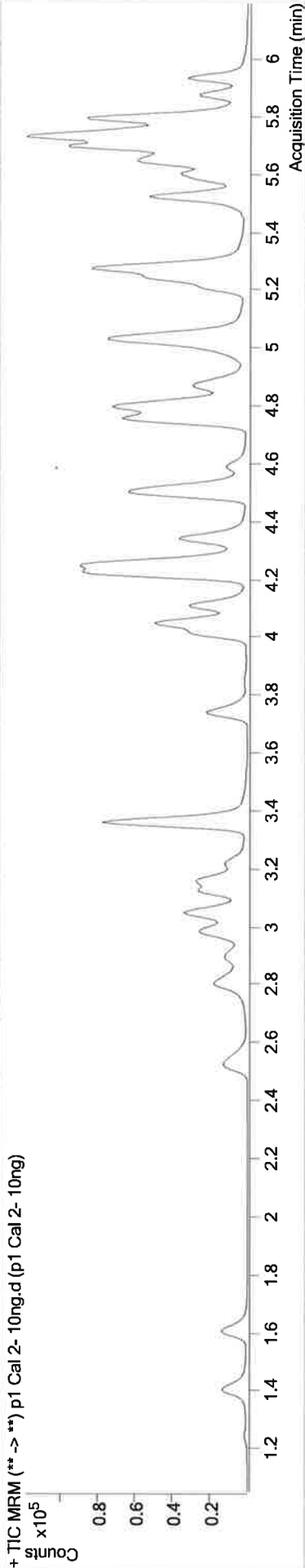


AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wklist 3106 TS.batch.bin
 3/25/2019 3:07:59 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** Tamara Salazar
Sample Position P1-B1
Injection Volume 1
Acq. Date-Time 3/21/2019 11:38:33 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	1576	220.26	77.3	1326.85	49665	0.9972 ng/ml
7-aminoclonazepam	4.240	8499	325.47	77.7	334.94	34856	10.5231 ng/ml
a-hydroxyalprazolam	5.683	6336	1766.09	65.0	307.24	29689	10.4418 ng/ml
alpha-PVP	4.353	14142	2677.33	51.2	572.20	60696	10.3375 ng/ml
Alprazolam	5.760	13716	685.36	100.6	3260.55	39610	9.9350 ng/ml
Amphetamine	3.062	22301	35.28	57.0	432.92	30595	10.6414 ng/ml
Benzoyllecgonine	3.870	774	501.95	6.1	53.91	2071	11.2624 ng/ml
Buprenorphine	5.674	916	73.59	15.9	10.19	40425	0.9307 ng/ml
Bupropion	4.776	39174	2807.10	60.0	751.54	134182	9.9970 ng/ml
Carisoprodol	5.708	18165	548.68	56.0	196.04	89626	10.5041 ng/ml
Citalopram	5.216	9323	381.09	40.8	448.49	37985	10.1523 ng/ml
Clonazepam	5.596	11379	5315.48	34.3	972.34	17807	10.6126 ng/ml
Cocaine	4.259	14237	1487.19	44.1	240.21	133877	10.3694 ng/ml
Codeine	2.577	2415	708.52	102.1	766.49	10642	9.9464 ng/ml
Cyclobenzaprine	5.612	8914	10462.71	10.9	272.03	35309	10.4979 ng/ml
Dextromethorphan	5.258	5750	1185.65	79.9	421.23	26715	10.3836 ng/ml
Dextropropfan	4.115	4640	2161.27	203.3	4990.25	51716	10.2216 ng/ml
Diazepam	5.945	9229	234.28	88.7	421.00	40859	10.4165 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	5536	4874.16	69.1	4100.56	29159	10.3708 ng/ml
Diphenhydramine	5.286	26540	5717.16	34.2	∞	133817	10.2674 ng/ml
Doxylamine	4.522	31466	10243.85	97.7	5695.67	139339	9.9646 ng/ml
EDDP	5.251	12925	4483.90	42.0	5222.36	61999	10.3291 ng/ml
Fentanyl	5.066	876	105.40	69.0	2308.92	42755	1.0330 ng/ml
Fluoxetine	5.705	11827	969.89	10.6	676.08	44663	9.8126 ng/ml
Hydrocodone	3.018	6789	244.45	39.1	76.61	37914	10.6668 ng/ml
Hydromorphone	1.614	7848	1370.06	76.1	656.85	27491	10.4789 ng/ml
Ketamine	4.035	13322	4616.00	36.3	357.85	59810	10.3864 ng/ml
Lamotrigine	4.277	1593	749.50	81.8	∞	59810	10.3679 ng/ml
Lorazepam	5.731	26978	80.12	55.4	65.76	17807	10.5865 ng/ml
Meprobamate	4.899	12119	2993.16	29.6	538.20	53700	10.3175 ng/ml
Methadone	5.650	14321	467.54	53.5	1616.15	68302	10.1486 ng/ml
Methamphetamine	3.224	15218	751.09	41.2	∞	56628	10.5452 ng/ml
Metoprolol	4.322	3499	784.84	92.0	1917.22	144520	10.7142 ng/ml
Mirtazapine	4.590	14353	6612.41	48.3	∞	60696	1.4142 ng/ml
Mitragynine	5.194	2895	4055.27	37.5	3068.06	68302	10.2089 ng/ml
Morphine	1.253	1754	401.34	22.9	3436.73	1780	10.6456 ng/ml
Norbuprenorphine	4.982	324	75.05	102.5	81.06	12474	0.9810 ng/ml
Nordiazepam	5.885	9914	13417.82	55.3	1769.13	29366	10.4592 ng/ml
Norfentanyl	4.077	2411	417.33	38.0	96.59	101583	1.0196 ng/ml
Norhydrocodone	3.066	1523	122.00	44.2	160.84	44823	9.8508 ng/ml
Noroxycodone	2.921	7476	95.77	48.9	127.47	25391	10.6596 ng/ml
O-desmethyl-tramadol	3.373	35213	3303.70	6.6	1781.45	153199	10.3804 ng/ml
Oxazepam	5.741	28908	366.94	69.1	177.97	108595	10.5273 ng/ml
Oxycodone	2.833	12455	300.79	31.7	66.95	50966	10.5392 ng/ml
Oxymorphone	1.410	8979	469.17	47.9	213.95	31352	10.2342 ng/ml
Phentermine	3.781	5725	293.16	4.6	135.38	54750	10.4194 ng/ml
Promethazine	5.529	17199	6242.21	28.6	1467.71	70542	9.9845 ng/ml
Quetiapine	5.511	10890	1289.50	58.7	20557.75	14550	10.6009 ng/ml
Sertraline	5.774	6156	549.38	86.8	902.85	24070	10.1359 ng/ml
Temazepam	5.808	27758	284.14	31.1	61.84	119753	10.5039 ng/ml
Tramadol	4.235	30158	16648.53	3.6	135.04	144520	10.4384 ng/ml
Trazodone	5.052	10714	990.87	79.6	581.92	44759	9.7200 ng/ml
Venlafaxine	5.033	22192	4139.69	37.7	499.93	107607	10.1066 ng/ml
Zolpidem	4.821	29035	21420.55	31.6	3754.25	135176	10.4683 ng/ml

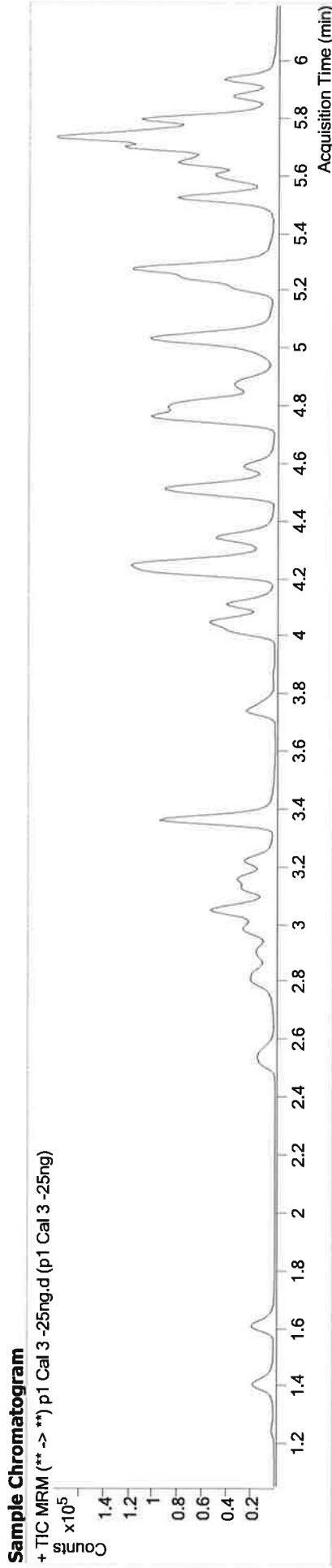
TS



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1 wk1st 3106 TS.batch.bin
Calibration Last Update 3/25/2019 3:07:59 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 3 -25ng.d
Type Cal **Sample** p1 Cal 3 -25ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-C1
Injection Volume 1
Acq. Date-Time 3/21/2019 11:49:00 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	ISTD Resp.	Final Conc.
6-MAM	3.138	3845	666.49	68.5	48980	2.4791 ng/ml
7-aminoclonazepam	4.240	20107	3591.87	78.6	34176	26.5323 ng/ml
a-hydroxyalprazolam	5.683	15454	1477.51	61.7	29112	26.9185 ng/ml
alpha-PVP	4.353	34314	18174.99	51.7	61427	25.3239 ng/ml
Alprazolam	5.760	31899	2790.17	104.0	38483	25.0227 ng/ml
Amphetamine	3.055	57496	2129.97	58.4	32762	26.6522 ng/ml
Benzoylcegonine	3.870	1493	131.88	6.7	2051	24.1958 ng/ml
Buprenorphine	5.681	2619	288.15	18.0	43089	2.6060 ng/ml
Bupropion	4.776	101557	23283.77	59.8	142611	25.5867 ng/ml
Carisoprodol	5.708	41244	3976.47	56.3	83028	26.2345 ng/ml
Citalopram	5.216	23318	1610.27	41.4	40593	24.7058 ng/ml
Clonazepam	5.596	26744	1412.48	35.1	17371	26.7434 ng/ml
Cocaine	4.253	33815	710.58	44.1	132127	25.1817 ng/ml
Codeine	2.577	5692	2486.74	101.6	10391	26.0063 ng/ml
Cyclobenzaprine	5.612	22875	19109.50	10.8	39394	24.3599 ng/ml
Dextromethorphan	5.258	14897	1260.44	79.5	28829	25.1558 ng/ml
Dextropropfan	4.115	11288	1781.10	205.9	52645	25.1484 ng/ml
Diazepam	5.945	21921	1179.88	86.4	40750	25.3365 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	12897	9349.53	68.6	4931.32	28320	25.6118 ng/ml
Diphenhydramine	5.286	70353	2148.08	34.2	3502.60	146535	25.2015 ng/ml
Doxylamine	4.515	78580	31033.29	97.3	32150.82	142723	25.9859 ng/ml
EDDP	5.251	32859	741.09	41.2	4329.61	65780	25.1765 ng/ml
Fentanyl	5.066	2410	364.27	68.4	3747.40	46862	2.5565 ng/ml
Fluoxetine	5.705	31219	1143.93	9.5	510.67	47497	25.1802 ng/ml
Hydrocodone	3.018	16351	619.28	40.6	122.13	38430	26.6603 ng/ml
Hydromorphone	1.614	18061	640.93	77.4	412.84	27187	24.9693 ng/ml
Ketamine	4.035	32093	∞	36.3	518.59	59621	25.9642 ng/ml
Lamotrigine	4.277	3973	873.70	78.2	7811.76	59621	27.0514 ng/ml
Lorazepam	5.731	60960	345.60	57.0	383.15	17371	26.6081 ng/ml
Meprobamate	4.899	29194	479.30	27.5	728.41	53735	26.0611 ng/ml
Methadone	5.650	38276	1508.63	54.6	3171.85	74436	25.3762 ng/ml
Methamphetamine	3.224	41635	417.14	40.3	820.41	65315	26.2346 ng/ml
Metoprolol	4.315	8236	2369.84	95.6	4214.06	142479	26.1474 ng/ml
Mirtazapine	4.590	38448	18683.36	47.6	29793.87	61427	24.8909 ng/ml
Mitragynine	5.194	8084	37325.77	36.9	4960.51	74436	26.2705 ng/ml
Morphine	1.253	4192	3339.81	23.4	4540.87	1762	26.3589 ng/ml
Norbuprenorphine	4.982	856	358.59	94.0	565.04	13356	2.6654 ng/ml
Nordiazepam	5.885	23153	2261.57	57.1	5031.81	28472	25.9351 ng/ml
Norfentanyl	4.077	6088	495.99	35.6	∞	102868	2.4843 ng/ml
Norhydrocodone	3.066	3888	287.20	42.9	64.16	44014	22.3917 ng/ml
Noroxycodone	2.915	17067	102.51	51.2	292.51	24731	25.8309 ng/ml
O-desmethyl-tramadol	3.373	82317	24841.06	6.5	856.87	149380	25.2216 ng/ml
Oxazepam	5.741	66993	318.58	69.1	215.21	104775	26.4039 ng/ml
Oxycodone	2.833	29530	329.36	31.1	289.31	51472	25.8607 ng/ml
Oxymorphone	1.410	21141	1133.70	47.2	378.30	29593	25.9533 ng/ml
Phentermine	3.781	15195	∞	3.8	45.25	59667	26.2311 ng/ml
Promethazine	5.529	46052	4266.16	28.2	1791.77	76933	25.0713 ng/ml
Quetiapine	5.511	28853	1826.00	59.5	1122.81	16268	25.4957 ng/ml
Sertraline	5.774	15607	1050.25	91.6	2918.59	24993	25.3229 ng/ml
Temazepam	5.808	63483	409.57	29.5	336.90	114575	25.9041 ng/ml
Tramadol	4.235	70983	3205.66	3.7	329.14	142479	25.8310 ng/ml
Trazodone	5.045	28824	896.42	78.5	1228.07	50901	25.8755 ng/ml
Venlafaxine	5.033	55937	14809.82	36.9	451.04	109091	25.4108 ng/ml
Zolpidem	4.821	69726	35441.49	31.2	2582.75	134098	25.7738 ng/ml

TS



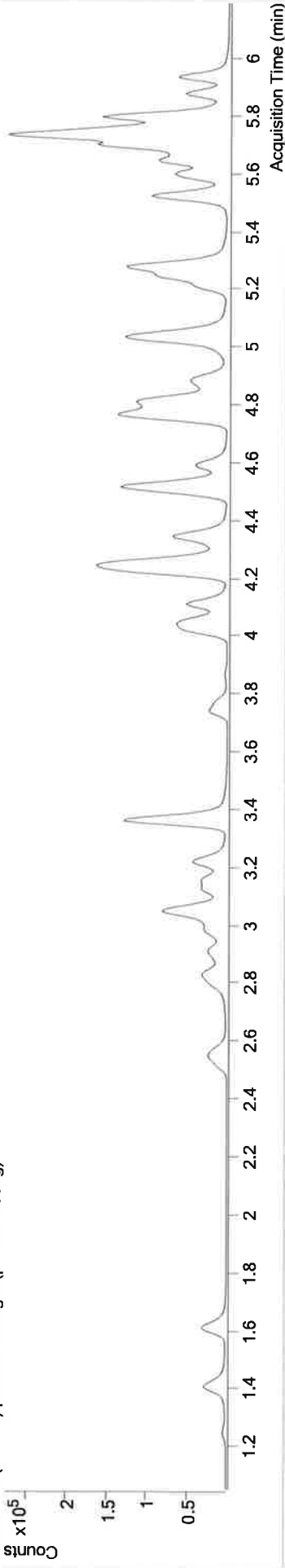
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wk1st 3106 TS.batch.bin
Calibration Last Update 3/25/2019 3:07:59 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 4-50ng.d
Type Cal **Sample** p1 Cal 4-50ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-D1
Injection Volume 1
Acq. Date-Time 3/21/2019 11:59:26 PM
Sample Info.

Sample Chromatogram

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	7663	420.23	71.6	1010.53	49212	4.9246 ng/ml
7-aminoclonazepam	4.240	39521	∞	78.0	21603.54	34323	52.7008 ng/ml
a-hydroxyvalprazolam	5.683	29870	2293.21	66.4	1216.05	29244	52.3804 ng/ml
alpha-PVP	4.353	63875	24487.10	51.7	5380.22	58766	49.6399 ng/ml
Alprazolam	5.760	64789	947.98	99.5	1914.90	37687	52.8527 ng/ml
Amphetamine	3.055	104165	2204.95	57.8	3087.52	30571	52.4348 ng/ml
Benzoyllecgonine	3.870	2883	5007.32	7.5	155.94	2114	47.4466 ng/ml
Buprenorphine	5.681	3823	314.63	17.5	212.36	34631	4.7859 ng/ml
Bupropion	4.776	170698	10218.71	59.3	8871.60	122478	50.8747 ng/ml
Carisoprodol	5.708	80774	2429.45	57.2	∞	85227	50.3593 ng/ml
Citalopram	5.216	36527	3183.72	41.0	3385.17	32642	48.7967 ng/ml
Clonazepam	5.596	53059	17842.86	33.7	129581.67	17168	54.5267 ng/ml
Cocaine	4.259	64752	1460.74	44.0	9970.44	127505	50.1272 ng/ml
Codeine	2.577	11208	511.95	101.0	1857.66	10406	52.4988 ng/ml
Cyclobenzaprine	5.612	35427	1625.95	10.8	∞	30281	49.2471 ng/ml
Dextromethorphan	5.258	22345	2744.50	80.4	5779.29	22319	48.8938 ng/ml
Dextroproprian	4.115	20304	6912.38	206.4	1953.50	48105	50.0086 ng/ml
Diazepam	5.945	43048	4819.39	88.1	2014.72	40344	50.6356 ng/ml

DS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	25565	18527.43	69.8	18033.26	28730	50.5439 ng/ml
Diphenhydramine	5.286	105971	∞	34.7	9221.07	112983	49.4651 ng/ml
Doxylamine	4.522	139858	25936.65	97.4	35121.29	130849	51.5538 ng/ml
EDDP	5.251	53343	20583.68	42.2	35532.89	55292	48.9077 ng/ml
Fentanyl	5.066	3384	684.43	75.2	8953.26	36836	4.5480 ng/ml
Fluoxetine	5.705	48949	12138.51	9.8	1175.02	36720	51.6398 ng/ml
Hydrocodone	3.018	30900	938.11	40.4	149.18	37269	52.8586 ng/ml
Hydromorphone	1.614	35744	948.64	76.0	820.40	27196	49.8309 ng/ml
Ketamine	4.035	62507	∞	36.3	853.74	59283	51.4423 ng/ml
Lamotrigine	4.277	7285	1357.57	81.5	2306.95	59283	50.5156 ng/ml
Lorazepam	5.731	111990	∞	57.5	420.57	17168	50.8228 ng/ml
Meprobamate	4.899	56687	35084.69	27.5	1536.91	54258	50.9188 ng/ml
Methadone	5.650	57798	1307.76	52.9	656.30	57994	49.4982 ng/ml
Methamphetamine	3.224	75698	2517.55	40.5	872.41	59922	52.8640 ng/ml
Metoprolol	4.322	15447	3633.36	95.8	3315.20	141446	49.7598 ng/ml
Mirtazapine	4.590	58766	8509.94	48.1	4557.66	58766	47.4420 ng/ml
Mitragynine	5.201	11507	84759.41	38.9	2588.47	57994	48.0602 ng/ml
Morphine	1.253	8162	1234.18	24.1	1503.35	1774	51.3959 ng/ml
Norbuprenorphine	4.982	1198	798.83	95.5	146.22	10586	4.8363 ng/ml
Nordiazepam	5.885	45765	4628.62	56.5	34926.56	28280	52.1336 ng/ml
Norfentanyl	4.077	11408	430.67	37.5	505.29	98633	4.8174 ng/ml
Norhydrocodone	3.066	8235	254.01	43.8	724.67	43396	45.7886 ng/ml
Noroxycodone	2.915	33630	∞	50.6	323.34	24041	53.0066 ng/ml
O-desmethyl-tramadol	3.373	163302	75293.92	6.6	774.49	150928	49.7530 ng/ml
Oxazepam	5.741	128570	∞	69.7	2181.62	101998	52.8282 ng/ml
Oxycodone	2.833	57186	∞	32.8	296.66	50452	51.9018 ng/ml
Oxymorphone	1.410	42029	1162.00	48.0	743.92	29830	51.4599 ng/ml
Phentermine	3.781	26934	2250.43	3.9	85.13	54491	51.4731 ng/ml
Promethazine	5.529	68669	4007.01	29.1	1626.22	59288	48.8686 ng/ml
Quetiapine	5.511	45651	10883.46	60.0	18877.02	13016	50.6846 ng/ml
Sertraline	5.774	23472	2947.17	90.3	∞	20241	47.3680 ng/ml
Temazepam	5.808	127567	2339.14	29.2	1077.49	117532	51.2919 ng/ml
Tramadol	4.235	136150	13200.79	3.6	2000.93	141446	50.5181 ng/ml
Trazodone	5.052	43437	1317.49	80.2	2018.81	40228	51.2515 ng/ml
Venlafaxine	5.033	102071	25137.41	37.2	629.16	101627	49.9570 ng/ml
Zolpidem	4.821	135223	29885.10	31.3	14664.76	131158	51.4049 ng/ml

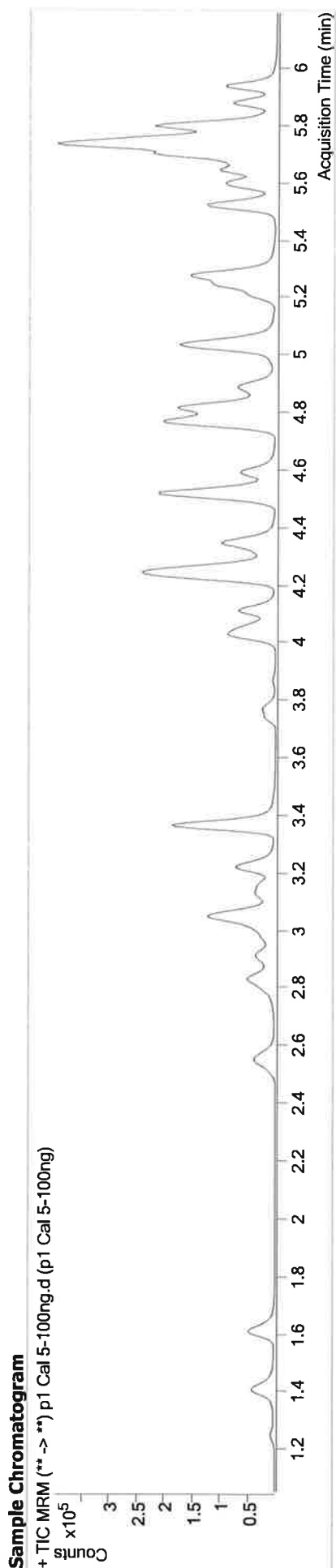
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine_Val TS\QuantResults\P1_wk1st 3106 TS.batch.bin
 3/25/2019 3:07:59 PM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 5-100ng.d
Type Cal **Sample** p1 Cal 5-100ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-E1
Injection Volume 1
Acq. Date-Time 3/22/2019 12:09:54 AM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	14858	1823.04	71.2	2799.32	46335	10.1501 ng/ml
7-aminoclonazepam	4.240	74350	19814.65	78.7	11204.59	32562	105.3015 ng/ml
a-hydroxyalprazolam	5.683	55542	683.15	64.6	1270.32	27121	105.6629 ng/ml
alpha-PVP	4.353	114303	24756.70	51.4	4635.41	51234	102.2953 ng/ml
Alprazolam	5.760	117998	12917.34	100.1	4184.88	35314	103.5692 ng/ml
Amphetamine	3.055	181002	8890.19	57.1	19629.41	26451	106.0452 ng/ml
Benzoyllecgonine	3.870	5638	1634.08	7.8	504.62	2022	99.5175 ng/ml
Buprenorphine	5.681	5975	1209.12	16.4	135.08	25294	10.3169 ng/ml
Bupropion	4.776	290203	31214.93	59.5	3211.04	102774	103.9313 ng/ml
Carisoprodol	5.708	147191	1668.61	57.4	554.19	76878	102.0771 ng/ml
Citalopram	5.216	56791	9404.68	39.9	3932.65	24767	100.7312 ng/ml
Clonazepam	5.596	94793	5117.28	35.4	3550.64	15753	106.9602 ng/ml
Cocaine	4.259	118024	64068.69	43.8	18458.61	114875	101.5774 ng/ml
Codeine	2.577	21077	7195.11	100.9	16812.38	9797	106.2710 ng/ml
Cyclobenzaprine	5.612	54028	103315.67	10.6	300.03	22749	100.1442 ng/ml
Dextromethorphan	5.258	33299	3739.21	81.0	1942.48	16343	99.6774 ng/ml
Dextropropfan	4.115	35350	37721.69	208.0	22951.96	40712	103.4300 ng/ml
Diazepam	5.945	79627	4884.71	86.3	4281.36	36320	104.4435 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	49310	22992.92	69.3	41778.94	27048	104.1058 ng/ml
Diphenhydramine	5.286	165989	15836.03	34.4	3765.81	87456	100.3456 ng/ml
Doxylamine	4.522	251274	56315.80	97.9	5492.19	115338	106.2998 ng/ml
EDDP	5.251	90379	9480.78	42.3	19259.82	45631	100.7288 ng/ml
Fentanyl	5.066	5188	700.39	77.2	2285.70	27112	9.4454 ng/ml
Fluoxetine	5.705	70433	1035.77	9.4	8908.35	26333	104.1711 ng/ml
Hydrocodone	3.018	56682	866.09	41.1	∞	34978	104.2244 ng/ml
Hydromorphone	1.614	69080	1008.56	74.4	1602.86	25390	103.6238 ng/ml
Ketamine	4.035	115868	35954.31	36.6	1268.67	54635	104.0867 ng/ml
Lamotrigine	4.277	14075	2619.06	78.7	3800.39	54635	106.7210 ng/ml
Lorazepam	5.731	179446	6738.24	57.7	3142.55	15753	89.9370 ng/ml
Meprobamate	4.899	103854	8714.31	27.6	399.79	50442	101.1868 ng/ml
Methadone	5.650	88038	8971.75	53.0	1629.33	43498	100.8683 ng/ml
Methamphetamine	3.224	134913	5780.87	41.3	3352.97	53939	105.5397 ng/ml
Metoprolol	4.322	27917	∞	94.9	5015.10	124147	102.8932 ng/ml
Mirtazapine	4.597	95018	60344.10	48.6	26381.89	51234	98.9599 ng/ml
Mitragynine	5.194	18283	26462.05	37.9	1796.75	43498	101.8900 ng/ml
Morphine	1.253	15593	1025.34	24.7	270.75	1683	103.9673 ng/ml
Norbuprenorphine	4.982	1944	1856.61	93.8	∞	8244	10.2634 ng/ml
Nordiazepam	5.885	81789	34461.36	56.7	5337.02	24976	106.0360 ng/ml
Norfentanyl	4.084	21322	743.40	37.3	860.87	89916	9.8364 ng/ml
Norhydrocodone	3.066	17307	227.42	43.1	516.41	38294	106.2647 ng/ml
Noroxycodone	2.915	59038	∞	53.4	1046.55	22232	101.1896 ng/ml
O-desmethyl-tramadol	3.373	311323	62872.46	6.5	5331.54	141884	101.1427 ng/ml
Oxazepam	5.741	213818	3238.92	71.0	3411.60	85881	105.1207 ng/ml
Oxycodone	2.833	108905	1128.16	31.7	1597.45	49007	102.5554 ng/ml
Oxymorphone	1.410	78296	∞	48.0	1214.02	28065	102.1730 ng/ml
Phentermine	3.781	47280	2650.34	4.0	163.74	47752	103.7030 ng/ml
Promethazine	5.529	105704	5473.51	28.5	2056.89	44025	101.7154 ng/ml
Quetiapine	5.511	76877	1899.63	60.1	4622.74	10510	105.9930 ng/ml
Sertraline	5.774	34469	598.41	88.1	1381.82	13602	103.9833 ng/ml
Temazepam	5.808	229940	4317.35	29.6	879.05	106299	102.7918 ng/ml
Tramadol	4.235	248542	21279.05	3.5	378.43	124147	105.7798 ng/ml
Trazodone	5.052	70818	10836.71	78.6	∞	31826	107.8553 ng/ml
Venlafaxine	5.033	178576	16820.85	37.7	1232.10	87756	101.4105 ng/ml
Zolpidem	4.821	260370	86218.92	31.1	20661.04	126384	103.0223 ng/ml

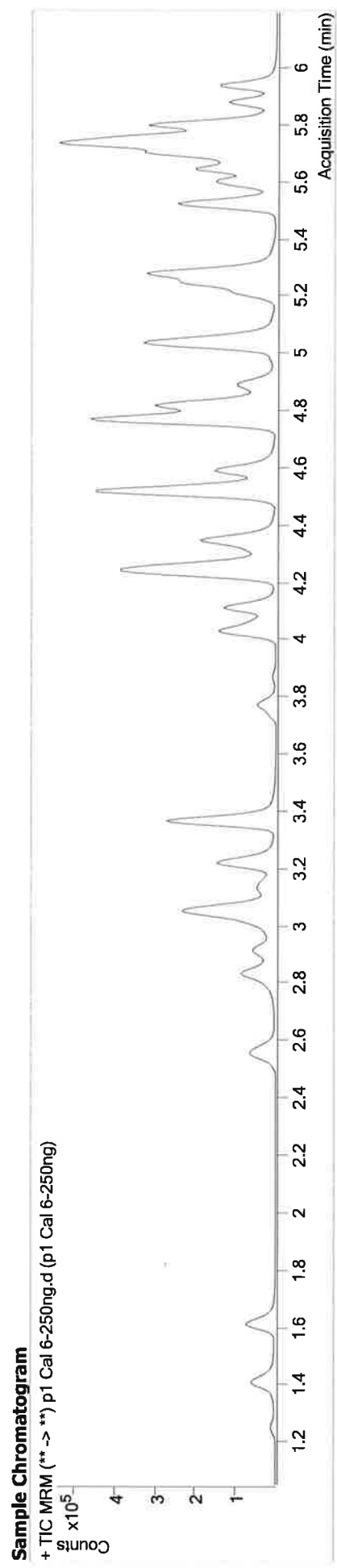
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wk1st 3106 TS.batch.bin
 3/25/2019 3:07:59 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** Tamara Salazar
Sample Position P1-F1
Injection Volume 1
Acq. Date-Time 3/22/2019 12:20:20 AM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	27489	2188.41	71.2	2954.08	34852	24.9770 ng/ml
7-aminoclonazepam	4.240	115404	17543.38	79.8	2811.33	21686	246.4914 ng/ml
a-hydroxyalprazolam	5.683	90089	2220.85	65.3	1092.72	18383	253.7330 ng/ml
alpha-PVP	4.353	251314	37388.57	51.5	21270.81	45940	251.3911 ng/ml
Alprazolam	5.760	194811	4891.39	103.3	∞	23643	256.7025 ng/ml
Amphetamine	3.055	380064	9856.64	57.2	13750.72	23835	248.0824 ng/ml
Benzoylcegonine	3.870	9630	25286.66	8.4	199.15	1460	238.6549 ng/ml
Buprenorphine	5.681	13677	1264.90	16.4	928.89	23283	25.7492 ng/ml
Bupropion	4.776	718275	64755.73	59.1	5044.30	102938	258.0582 ng/ml
Carisoprodol	5.708	226314	6506.63	58.2	1490.12	48293	250.3380 ng/ml
Citalopram	5.222	138273	24079.13	41.3	3928.27	24651	247.4262 ng/ml
Clonazepam	5.596	153062	5052.46	34.6	2208.72	10433	261.9726 ng/ml
Cocaine	4.259	235727	201801.28	44.1	69179.82	92977	250.8966 ng/ml
Codeine	2.577	36994	13457.94	100.4	∞	6952	264.9589 ng/ml
Cyclobenzaprine	5.619	125381	1115.90	10.5	607.76	20993	252.0881 ng/ml
Dextromethorphan	5.258	81229	11099.18	79.8	18127.60	15934	249.6332 ng/ml
Dextropropfan	4.115	82766	40389.70	204.1	72120.30	38688	255.5946 ng/ml
Diazepam	5.945	138498	7644.95	86.6	19536.62	26005	254.2698 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	87088	123565.93	69.2	16617.48	19822	251.6312 ng/ml
Diphenhydramine	5.286	414496	62506.40	34.2	3230.30	87584	250.5747 ng/ml
Doxylamine	4.522	573948	152657.72	97.3	80478.04	108909	258.8078 ng/ml
EDDP	5.251	225659	23913.72	42.2	13378.65	46018	249.8368 ng/ml
Fentanyl	5.066	12228	1117.71	74.7	3684.21	24689	24.4076 ng/ml
Fluoxetine	5.705	158372	81574.99	9.8	12029.29	24796	249.5287 ng/ml
Hydrocodone	3.018	108980	3175.51	40.3	∞	27812	253.3762 ng/ml
Hydromorphone	1.614	117240	1915.25	74.1	1101.27	17679	253.2124 ng/ml
Ketamine	4.035	222274	6430.21	36.5	4423.74	43381	252.3363 ng/ml
Lamotrigine	4.277	24698	12763.75	79.3	1380.06	43381	236.7567 ng/ml
Lorazepam	5.731	246655	1693.44	59.1	833.38	10433	188.3624 ng/ml
Meprobamate	4.899	159909	938.64	27.7	7403.57	34305	230.1927 ng/ml
Methadone	5.650	215962	38891.53	53.3	5955.59	42805	251.9429 ng/ml
Methamphetamine	3.224	283096	11413.15	41.2	4550.64	47736	251.4588 ng/ml
Metoprolol	4.322	60917	∞	93.7	12659.93	102682	272.1201 ng/ml
Mirtazapine	4.590	231256	36603.06	48.3	47064.32	45940	290.6165 ng/ml
Mitragynine	5.201	40165	103338.70	38.1	22100.35	42805	227.5558 ng/ml
Morphine	1.253	26211	908.70	24.0	465.30	1203	245.2689 ng/ml
Norbuprenorphine	4.982	4696	364.18	94.1	2058.87	8175	25.2437 ng/ml
Nordiazepam	5.885	135995	4064.59	58.2	2925.30	17661	250.0412 ng/ml
Norfentanyl	4.077	44770	9042.66	37.6	2559.30	75571	24.5155 ng/ml
Norhydrocodone	3.066	41347	1344.75	42.7	3616.02	29588	324.3639 ng/ml
Noroxycodone	2.915	105984	514.54	50.5	437.16	16677	243.0455 ng/ml
O-desmethyl-tramadol	3.373	549169	106945.62	6.6	2583.25	101270	250.3195 ng/ml
Oxazepam	5.741	322450	4825.75	67.5	866.81	52846	258.7845 ng/ml
Oxycodone	2.833	198312	∞	32.8	∞	35400	259.7905 ng/ml
Oxymorphone	1.410	128310	∞	47.8	2216.72	18784	250.5814 ng/ml
Phentermine	3.781	105195	4242.90	3.9	327.50	44842	246.5189 ng/ml
Promethazine	5.529	230180	28931.98	29.1	9847.38	39567	246.9949 ng/ml
Quetiapine	5.511	170676	60991.42	60.3	4378.75	10154	243.9391 ng/ml
Sertraline	5.774	77208	6646.10	87.7	2575.22	12678	250.4608 ng/ml
Temazepam	5.808	386100	3281.98	29.2	603.48	73268	251.2334 ng/ml
Tramadol	4.235	496912	96154.66	3.6	2294.71	102682	256.6261 ng/ml
Trazodone	5.052	155866	3183.19	78.8	26137.91	29085	262.7312 ng/ml
Venlafaxine	5.033	407686	∞	37.4	3636.35	82845	245.5162 ng/ml
Zolpidem	4.821	479845	345546.97	31.1	25877.96	94811	253.5325 ng/ml

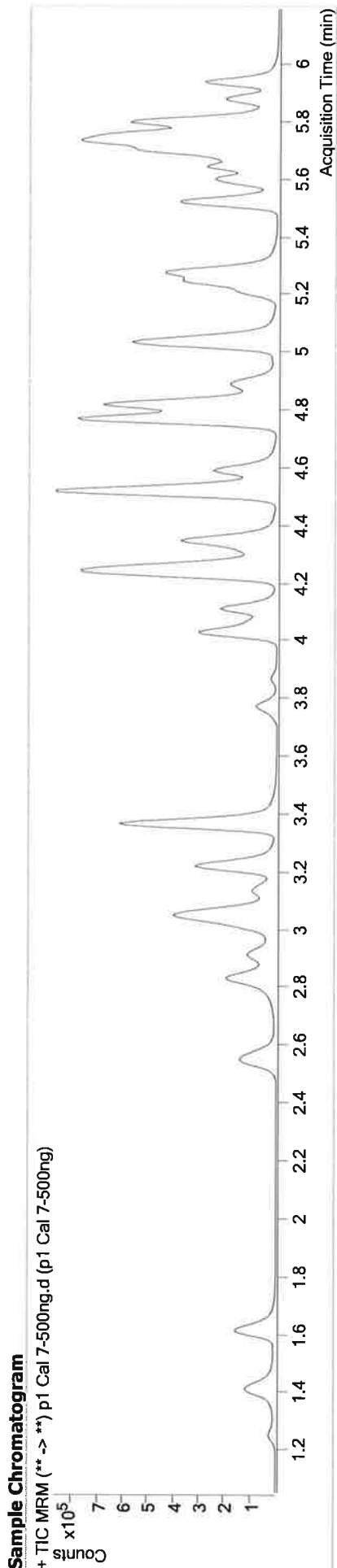
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wklist 3106 TS.batch.bin
Calibration Last Update 3/25/2019 3:07:59 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** Tamara Salazar
Sample Position P1-G1
Injection Volume 1
Acq. Date-Time 3/22/2019 12:30:48 AM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	71255	17021.59	71.2	21291.41	45526	49.5724 ng/ml
7-aminoclonazepam	4.240	253414	∞	79.9	∞	28054	418.9824 ng/ml
a-hydroxyalprazolam	5.683	185931	3697.94	66.1	2178.83	20272	475.4454 ng/ml
alpha-PVP	4.353	527772	102534.24	52.0	97826.98	48883	496.5248 ng/ml
Alprazolam	5.760	443693	3857.81	100.7	5657.43	26858	515.5600 ng/ml
Amphetamine	3.055	678522	16286.60	57.3	19979.32	25793	409.7581 ng/ml
Benzoylcegonine	3.870	29096	4046.85	8.0	480.88	2145	493.2779 ng/ml
Buprenorphine	5.681	20090	∞	16.6	98.16	17435	50.5741 ng/ml
Bupropion	4.776	1268904	157942.84	58.8	32571.02	92866	506.1301 ng/ml
Carisoprodol	5.708	469312	13168.49	57.8	1254.82	52715	475.8836 ng/ml
Citalopram	5.216	208845	21665.38	40.7	11688.01	18629	495.2340 ng/ml
Clonazepam	5.596	291771	42909.04	35.2	47961.32	11565	451.0945 ng/ml
Cocaine	4.259	515455	124557.77	44.0	279493.21	102769	496.5081 ng/ml
Cocaine	2.577	86026	1511.64	99.4	3590.74	8413	510.3845 ng/ml
Cyclobenzaprine	5.612	194532	6406.76	10.5	1150.74	16427	499.9888 ng/ml
Dextromethorphan	5.258	115584	58066.97	78.2	18969.67	11217	504.7681 ng/ml
Dextropropion	4.115	148372	492489.73	207.1	192882.58	35425	500.8965 ng/ml
Diazepam	5.945	310298	8055.25	86.8	∞	30235	490.3347 ng/ml

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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	214836	∞	70.1	43593.88	27195	452.8755 ng/ml
Diphenhydramine	5.286	596899	134781.29	34.3	17638.86	63407	498.6662 ng/ml
Doxylamine	4.522	1143023	∞	97.9	232909.22	110789	507.7971 ng/ml
EDDP	5.251	401690	61651.76	41.0	227321.39	40131	510.2917 ng/ml
Fentanyl	5.066	17423	2755.12	76.3	3268.97	17035	50.3787 ng/ml
Fluoxetine	5.705	227465	3253.81	9.8	29223.41	18335	485.1963 ng/ml
Hydrocodone	3.018	243645	∞	40.7	∞	33737	467.7953 ng/ml
Hydromorphone	1.621	274675	831.17	75.5	842.19	21828	480.8672 ng/ml
Ketamine	4.035	522065	69657.78	37.0	5773.89	53469	481.4073 ng/ml
Lamotrigine	4.277	57369	12733.95	78.8	18882.26	53469	446.8398 ng/ml
Lorazepam	5.731	347944	1582.12	57.1	169.96	11565	240.1353 ng/ml
Meprobamate	4.899	337007	105003.13	27.7	24892.09	43200	385.8247 ng/ml
Methadone	5.650	311341	18254.31	52.4	8726.63	30989	502.0303 ng/ml
Methamphetamine	3.224	632539	8128.02	41.2	13441.11	56565	474.9422 ng/ml
Metoprolol	4.322	122856	23035.64	93.5	∞	118305	476.6327 ng/ml
Mirtazapine	4.590	367506	96710.61	47.7	89765.93	48883	440.3706 ng/ml
Mitragynine	5.201	64868	2244.98	38.1	40725.19	30989	507.7247 ng/ml
Morphine	1.253	63352	181958.93	23.5	1041.77	1503	474.8924 ng/ml
Norbuprenorphine	4.982	6964	1130.05	92.4	∞	5958	51.5355 ng/ml
Nordiazepam	5.885	266141	22294.54	57.4	21566.65	18275	473.3622 ng/ml
Norfentanyl	4.077	106283	547.91	37.4	2934.66	87617	50.1570 ng/ml
Norhydrocodone	3.073	114053	5978.84	42.5	1799.87	32898	801.7493 ng/ml
Noroxycodone	2.915	225912	∞	50.0	∞	17754	487.2672 ng/ml
O-desmethyl-tramadol	3.373	1389264	191245.13	6.6	4463.85	130138	493.0066 ng/ml
Oxazepam	5.741	450664	2455.26	70.1	882.33	40791	469.2247 ng/ml
Oxycodone	2.833	495937	∞	32.0	1059.01	47513	484.7766 ng/ml
Oxymorphone	1.410	299611	3360.65	48.6	∞	22653	485.4413 ng/ml
Phentermine	3.781	196056	6728.74	3.9	271.67	46323	445.2452 ng/ml
Promethazine	5.529	371462	16549.30	28.6	2622.50	31819	496.0361 ng/ml
Quetiapine	5.511	286144	95572.65	60.5	79664.37	8416	493.7001 ng/ml
Sertraline	5.774	110411	12131.65	89.8	28379.45	8952	507.6504 ng/ml
Temazepam	5.808	820398	4665.27	29.7	1968.33	81744	478.9963 ng/ml
Tramadol	4.235	1080368	125313.99	3.5	13279.52	118305	484.8445 ng/ml
Trazodone	5.052	241119	34610.15	78.8	75128.52	22547	526.3887 ng/ml
Venlafaxine	5.033	812966	293662.97	37.4	40739.36	81434	498.2616 ng/ml
Zolpidem	4.821	1197826	168795.68	31.3	35779.67	123706	485.3385 ng/ml

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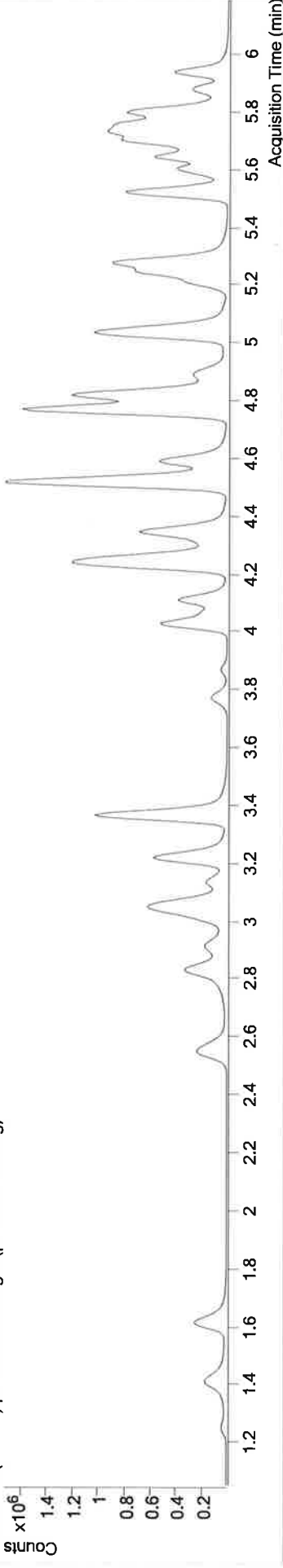
AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\032119 MDQ P1_P2_Urine Val TS\QuantResults\P1_wklist 3106 TS.batch.bin
3/25/2019 3:07:59 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** Tamara Salazar
Sample Position P1-H1
Injection Volume 1
Acq. Date-Time 3/22/2019 12:41:16 AM
Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 8-1000ng.d (p1 Cal 8-1000ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	144050	13305.27	70.3	3480.36	45450	100.3912 ng/ml
7-aminoclonazepam	4.240	337134	50645.21	79.2	25455.88	23500	665.8821 ng/ml
a-hydroxyalprazolam	5.683	263233	4504.75	66.1	1100.49	16004	853.1214 ng/ml
alpha-PVP	4.353	1030709	161393.05	52.0	45357.30	47430	999.7918 ng/ml
Alprazolam	5.760	687651	∞	101.5	∞	22098	971.9430 ng/ml
Amphetamine	3.055	1094161	36047.97	57.5	88292.98	25758	662.1071 ng/ml
Benzoylcegonine	3.870	63863	55401.31	7.7	2368.66	2281	1020.6449 ng/ml
Buprenorphine	5.681	43275	1748.05	17.1	7951.46	19628	96.8284 ng/ml
Bupropion	4.776	2619087	417150.62	59.2	52907.94	98978	980.9491 ng/ml
Carisoprodol	5.715	677036	1893.38	56.2	3331.35	37897	955.2943 ng/ml
Citalopram	5.216	452986	∞	41.1	8362.84	19869	1007.8273 ng/ml
Clonazepam	5.596	413800	22680.47	34.8	68723.92	9086	814.9511 ng/ml
Cocaine	4.259	929330	∞	43.9	202050.53	91952	1000.6385 ng/ml
Codeine	2.577	143541	25558.73	99.8	15988.54	7427	965.9045 ng/ml
Cyclobenzaprine	5.612	425905	180409.56	10.4	6005.25	17992	999.6037 ng/ml
Dextromethorphan	5.258	235579	24922.11	79.5	33169.13	11581	996.6077 ng/ml
Dextropropfan	4.115	277241	80806.22	207.9	51005.57	33505	990.0844 ng/ml
Diazepam	5.945	506607	12377.73	87.6	∞	26412	916.7364 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	385541	58725.91	69.5	∞	27721	797.6968 ng/ml
Diphenhydramine	5.286	1302307	100851.30	34.1	50819.62	68961	1000.6185 ng/ml
Doxylamine	4.515	2363770	613377.52	96.8	230233.41	119412	975.3718 ng/ml
EDDP	5.251	820611	59416.64	42.2	52742.81	42274	989.9056 ng/ml
Fentanyl	5.066	40506	2250.92	73.8	7001.60	17876	111.5784 ng/ml
Fluoxetine	5.705	466717	82744.19	9.8	∞	18089	1009.6771 ng/ml
Hydrocodone	3.018	444583	799.61	41.4	781.20	33062	871.8347 ng/ml
Hydromorphone	1.621	477748	681.01	75.7	751.17	18814	970.8031 ng/ml
Ketamine	4.035	974181	931742.85	36.9	21807.00	52683	912.2582 ng/ml
Lamotrigine	4.277	92701	19678.27	79.4	42123.81	52683	733.2845 ng/ml
Lorazepam	5.731	375465	3134.04	59.2	903.52	9086	330.4103 ng/ml
Meprobamate	4.899	515200	180709.50	27.4	10947.74	39182	650.9132 ng/ml
Methadone	5.650	698863	44190.18	52.4	12628.40	35098	995.3140 ng/ml
Methamphetamine	3.224	1209452	27215.85	40.9	26561.34	58937	872.3113 ng/ml
Metoprolol	4.322	215875	43959.77	94.4	∞	114817	863.2825 ng/ml
Mirtazapine	4.590	814761	454682.06	48.2	216560.26	47430	1022.7202 ng/ml
Mitragynine	5.201	150296	69362.39	38.1	3317.47	35098	1038.7407 ng/ml
Morphine	1.253	106665	1818.64	23.7	1948.39	1293	929.3258 ng/ml
Norbuprenorphine	4.982	15226	10306.37	96.2	1644.49	6861	98.0052 ng/ml
Nordiazepam	5.885	397956	2326.52	56.3	1721.16	14325	903.4690 ng/ml
Norfentanyl	4.077	219833	74526.07	37.4	11887.25	85732	105.9818 ng/ml
Norhydrocodone	3.073	221586	∞	42.6	1479.59	31294	1635.4214 ng/ml
Noroxycodone	2.915	362492	∞	50.7	188.54	14982	927.1203 ng/ml
O-desmethyl-tramadol	3.373	2539733	183430.64	6.6	36141.98	119716	979.9741 ng/ml
Oxazepam	5.741	447642	2887.55	69.2	708.05	22255	854.9305 ng/ml
Oxycodone	2.833	923993	766.88	31.9	755.63	48906	878.1420 ng/ml
Oxymorphone	1.410	524987	3780.26	48.0	1765.22	20568	937.0941 ng/ml
Phentermine	3.781	345770	14565.11	3.9	460.45	47727	762.5646 ng/ml
Promethazine	5.529	820580	190478.16	29.1	24791.44	34120	1022.3048 ng/ml
Quetiapine	5.511	609531	69454.44	60.3	972662.61	9616	920.6733 ng/ml
Sertraline	5.774	211024	37993.41	88.5	288478.63	8775	990.1839 ng/ml
Temazepam	5.808	1230019	9619.79	29.5	839.85	62990	932.5097 ng/ml
Tramadol	4.235	1925110	215589.12	3.6	2040.07	114817	890.7411 ng/ml
Trazodone	5.052	510119	51470.35	78.9	5204.96	26422	952.0094 ng/ml
Venlafaxine	5.033	1575990	427692.12	37.3	25225.69	78324	1004.4542 ng/ml
Zolpidem	4.821	2256781	∞	30.8	4442.39	123992	912.5653 ng/ml