

















REVIEWED*By Anne Nord at 4:48 pm, Nov 15, 2019*

11/13/2019

S TS

Worklist: 3826

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2019-4695	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2019-4845	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3255	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3261	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3273	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3275	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3277	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3281	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3281	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3284	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3290	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3324	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3328	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3397	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3410	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2019-3411	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 11/13/19

Analyst: Tamara Salazar

Plate lot#: Item #:IDP-111 Lot:190729

Plate Expiration: 01/29/20

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: 445283-3

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

LCMS-QQQ ID: 069901

Pre-Analytic:

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

Analytic:

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

Post-Analytic

- ☒ 1. Create batch and process data.
Worklist path: *D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS*
Batch Name: *MDQ P1 wklt 3826 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.

COMMENTS: *Curves Limited: 7-aminoclonazepam 5-500, Amphetamine 5-500, Buprenorphine 1-100, Fluoxetine 10-1000, Lamotrigine 5-250, Norhydrocodone 5-250, Oxazepam 25-1000 (qualitative only), Trazodone 5-500,*

Lorazepam calibrator two dropped due to quantifier peak cutting off.

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Not evaluated: Norbuprenorphine

Urine controls were run as a urine case sample from a different worklist was added to the extraction plate.

‡ Case sample M2019-4654-2, originally from worklist 3770, was ran with this batch. Tamara Salazar acted as the primary analyst and performed Steps 3-16. I, Sarah Pickle, approved of all steps performed in the method.



Idaho State Police Forensic Services

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AM #28 Blood and Urine Multi-Drug Screen by LCMS-QQQ

Methanol External Control Solution (Lot: 042719)

100 ul of 1mg/mL stock was added to each drug to 9600 ul of LC MeOH.

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	184782	
Morphine	Cerilliant	FE08141515	November 2020
Metoprolol	Cerilliant	FN06091510	July 2020
Flunitrazepam *	Cerilliant	FE08051602	August 2021
Trazodone	Cerilliant	FN12151403	January 2020
Prepared:	04/27/19		
Prepared By:	Tamara Salazar		
Expires:	01/31/2020		

Urine External Control Solution (Lot: WS092519)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 100ng/mL of each compound.

Component	Source	Source Lot Number
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		042719
Prepared:	09/25/19	
Prepared by:	Celena Shrum	
Expires:	01/31/2020	

*Flunitrazepam not a panel 1 compound. - TS

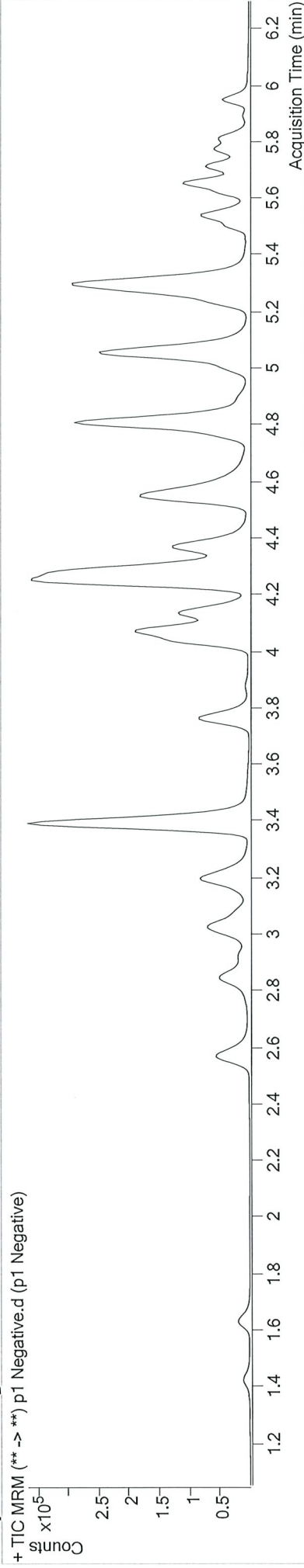


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument Type	Falco	Data File	p1 Negative.d
Acq. Method	Sample	Sample	p1 Negative
Sample Position	MDQ P1 Combined 092319.m	Operator	
Injection Volume	P1-E2	Comment	
Acq. Date-Time	2		
Sample Info.	11/14/2019 9:18:13 AM		

Sample Chromatogram



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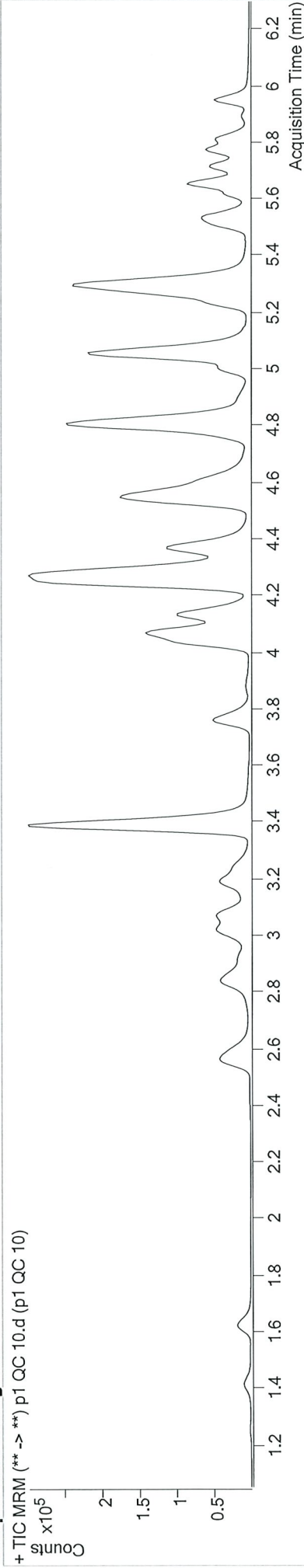


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument Type	Falco	Data File	p1 QC 10.d
Acq. Method	QC	Sample	p1 QC 10
Sample Position	MDQ P1 Combined 092319.m	Operator	
Injection Volume	P1-A2	Comment	
Acq. Date-Time	2		
Sample Info.	11/13/2019 10:24:15 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	993	1317.06	67.6	193.92	19982	0.9771 ng/ml
7-aminoclonazepam	4.271	11794	155.61	81.8	∞	46111	9.9452 ng/ml
a-hydroxyalprazolam	5.700	694	16.50	64.1	46.41	3672	10.4460 ng/ml
alpha-PVP	4.384	52089	3065.41	50.2	113.47	240477	9.9354 ng/ml
Alprazolam	5.784	25883	556.07	101.4	240.69	59256	10.2026 ng/ml
Amphetamine	3.081	58106	19.34	53.3	1081.22	60036	10.3936 ng/ml
Benzoylcegonine	3.907	2415	373.30	8.8	87.77	8724	10.2474 ng/ml
Buprenorphine	5.652	885	58.51	16.6	18.44	33516	1.1329 ng/ml
Bupropion	4.793	32758	1032.26	57.9	3201.48	114404	9.8173 ng/ml
Carisoprodol	5.726	14261	328.15	52.7	81.88	68679	10.6085 ng/ml
Citalopram	5.243	25923	922.55	42.1	269.96	119709	10.1013 ng/ml
Clonazepam	5.614	2554	∞	35.4	∞	4506	10.2096 ng/ml
Cocaine	4.284	61197	550.33	44.4	2806.44	474574	9.8293 ng/ml
Codeine	2.617	7709	172.91	99.4	6992.71	31453	10.3596 ng/ml
Cyclobenzaprine	5.631	7126	132.39	9.9	20.52	24832	10.0842 ng/ml
Dextromethorphan	5.285	12681	692.25	75.5	2530.04	55622	10.3372 ng/ml
Dextrorphan	4.140	16306	658.06	206.5	334.98	206838	10.4110 ng/ml
Diazepam	5.961	14831	227.15	86.4	1986.87	73188	9.9278 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	20717	157.44	65.7	6355.77	110369	10.4395 ng/ml
Diphenhydramine	5.306	55354	380.85	34.4	601.74	430481	10.3186 ng/ml
Doxylamine	4.561	128089	2164.10	96.8	1108.22	526486	10.2211 ng/ml
EDDP	5.278	44367	356.74	42.2	3696.24	239620	10.0579 ng/ml
Fentanyl	5.093	822	22.42	67.7	∞	46512	0.9701 ng/ml
Fluoxetine	5.716	4766	125.25	9.3	399.37	18746	11.6220 ng/ml
Hydrocodone	3.052	16183	558.65	41.7	41.55	103616	10.3461 ng/ml
Hydromorphone	1.634	11922	∞	75.9	128.81	44751	9.8294 ng/ml
Ketamine	4.053	50594	32641.88	37.4	202.28	233610	10.2263 ng/ml
Lamotrigine	4.295	5702	649.91	81.1	367.33	233610	10.4022 ng/ml
Lorazepam	5.748	888	44.90	59.7	6.77 Low	4506	9.9402 ng/ml
Meprobamate	4.929	3561	∞	25.8	50.52	17534	9.7292 ng/ml
Methadone	5.661	27619	244.92	53.5	1947.84	134233	9.9058 ng/ml
Methamphetamine	3.255	28814	124.64	43.0	182.10	126114	10.2911 ng/ml
Metoprolol	4.340	11940	810.12	96.1	∞	620105	10.4551 ng/ml
Mirtazapine	4.616	57987	1402.20	48.3	734.58	240477	9.4959 ng/ml
Mitragynine	5.214	5006	1462.97	41.3	∞	134233	9.9461 ng/ml
Morphine	1.266	2289	1141.71	21.0	91.45	2231	10.0626 ng/ml
Nordiazepam	5.901	3275	380.06	59.4	∞	9739	10.5867 ng/ml
Norfentanyl	4.102	6213	833.95	40.4	197.29	295332	0.9877 ng/ml
Norhydrocodone	3.086	321	273.32	44.4	135.01	20824	8.1656 ng/ml
Noroxycodone	2.943	10953	205.30	46.8	135.34	32721	9.9791 ng/ml
O-desmethyl-tramadol	3.394	136134	28266.27	6.0	886.69	730989	10.1213 ng/ml
Oxycodone	2.868	33345	1728.70	31.9	552.34	141769	10.4232 ng/ml
Oxymorphone	1.423	7242	72.90	48.8	157.54	26853	9.5005 ng/ml
Phentermine	3.798	12557	1382.72	2.1	13.51	148721	10.3687 ng/ml
Promethazine	5.548	17761	2204.22	30.8	130.40	75641	10.8702 ng/ml
Quetiapine	5.517	45653	1788.02	62.4	689.23	60014	10.3703 ng/ml
Sertraline	5.784	3051	162.01	90.9	61.52	11869	11.5124 ng/ml
Temazepam	5.825	11254	69.19	34.6	22.11	62240	9.8131 ng/ml
Tramadol	4.260	128101	6647.89	3.2	107.82	620105	10.5689 ng/ml
Trazodone	5.045	30024	2478.84	78.8	551.15	117077	10.4827 ng/ml
Venlafaxine	5.061	80838	5862.40	36.9	167.90	448627	10.0633 ng/ml
Zolpidem	4.824	125960	419.70	30.2	∞	582102	10.2457 ng/ml

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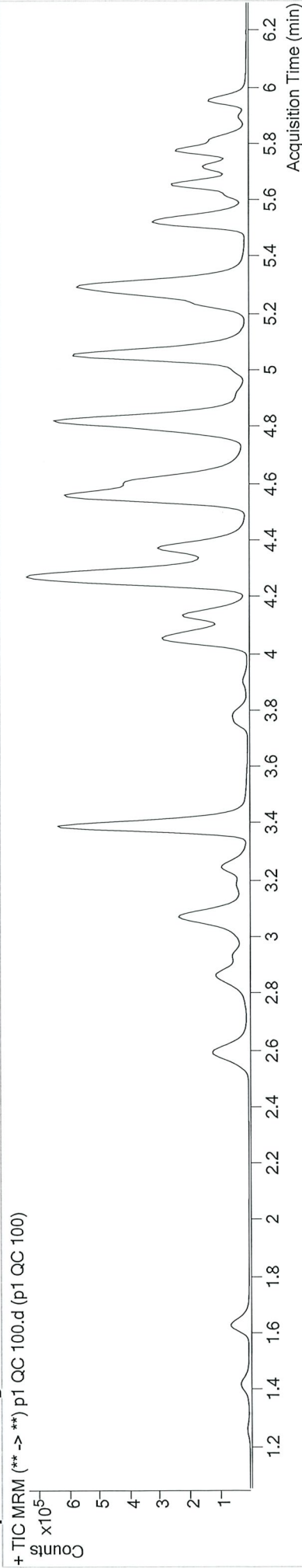


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument Type	Falco	Data File	p1 QC 100.d
Acq. Method	QC	Sample	p1 QC 100
Sample Position	MDQ P1 Combined 092319.m	Operator	
Injection Volume	P1-B2	Comment	
Acq. Date-Time	2		
Sample Info.	11/13/2019 10:45:26 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	8250	11739.15	73.5	16748.11	17252	9.6008 ng/ml
7-aminoclonazepam	4.271	99959	3467.07	82.1	6908.98	42903	99.5046 ng/ml
a-hydroxylprazolam	5.700	6567	424.47	65.9	579.02	3189	110.1698 ng/ml
alpha-PVP	4.384	423582	21075.08	50.1	4331.91	201021	95.5208 ng/ml
Alprazolam	5.777	220636	1009.26	103.4	951.88	54272	98.5745 ng/ml
Amphetamine	3.081	432253	6775.69	52.6	5098.23	48767	106.4867 ng/ml
Benzoylcegonine	3.907	20840	205.50	7.5	318.86	8834	99.4651 ng/ml
Buprenorphine	5.652	8481	584.67	16.4	∞	32393	11.1329 ng/ml
Bupropion	4.793	275370	474.85	58.0	608.60	100203	103.8306 ng/ml
Carisoprodol	5.726	124752	454.11	54.5	324.50	64629	98.4383 ng/ml
Citalopram	5.243	237665	664.52	42.3	18080.28	112518	97.6876 ng/ml
Clonazepam	5.620	21401	∞	34.0	1937.18	4309	97.9944 ng/ml
Cocaine	4.284	498113	40534.74	44.0	15735.49	396356	97.4383 ng/ml
Codeine	2.610	62336	169.03	100.2	7493.09	27106	110.4824 ng/ml
Cyclobenzaprine	5.631	68727	∞	10.2	339.27	23770	103.5731 ng/ml
Dextromethorphan	5.285	117141	257.20	79.7	∞	54142	99.1448 ng/ml
Dextrorphan	4.140	133210	16434.27	209.2	1554.11	174328	103.3672 ng/ml
Diazepam	5.961	125402	4095.33	86.7	878.45	61736	102.3504 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	2.588	172836	51054.40	67.4	∞	96869	107.3067 ng/ml
Diphenhydramine	5.306	511101	39822.91	34.0	6482.90	412072	97.4798 ng/ml
Doxylamine	4.561	1043724	3176.31	97.5	75668.21	447087	97.5690 ng/ml
EDDP	5.278	397152	8947.83	42.5	1422.81	219273	99.8230 ng/ml
Fentanyl	5.086	8489	141.98	72.6	∞	45577	9.3649 ng/ml
Fluoxetine	5.716	45265	1149.23	8.8	∞	19684	101.7007 ng/ml
Hydrocodone	3.052	140094	282.69	41.0	∞	92101	103.5495 ng/ml
Hydromorphone	1.634	101223	2290.81	78.4	1300.43	39862	95.7149 ng/ml
Ketamine	4.053	422792	5816.56	38.4	306.19	200652	102.8260 ng/ml
Lamotrigine	4.295	47382	3224.45	79.5	1280.41	200652	113.5655 ng/ml
Lorazepam	5.755	7837	301.84	56.4	47.51	4309	94.0657 ng/ml
Meprobamate	4.929	34943	5070.56	25.9	382.92	17813	98.8300 ng/ml
Methadone	5.661	275833	15168.53	52.3	14786.58	133657	95.7408 ng/ml
Methamphetamine	3.255	190729	3080.62	42.2	1918.31	93458	102.3907 ng/ml
Metoprolol	4.340	94526	3582.16	96.2	∞	531661	103.2730 ng/ml
Mirtazapine	4.616	511786	7248.85	48.8	3966.04	201021	91.2324 ng/ml
Mitragynine	5.214	48601	10377.44	39.9	45166.35	133657	101.9545 ng/ml
Morphine	1.266	19722	1894.02	21.4	160.89	2003	98.0245 ng/ml
Norbuprenorphine	5.010	297	50.47	77.3	102.12	1256	11.4469 ng/ml
Nordiazepam	5.901	26655	6849.37	58.6	1691.25	8307	105.9870 ng/ml
Norfentanyl	4.102	56709	368.26	36.8	335.46	269638	9.7886 ng/ml
Norhydrocodone	3.093	4271	288.73	36.9	67.65	20090	101.1068 ng/ml
Noroxycodone	2.943	92655	300.26	47.5	9631.99	27930	102.2744 ng/ml
O-desmethyl-tramadol	3.394	1160470	41863.42	6.3	784.07	643660	100.0814 ng/ml
Oxazepam	5.758	8768	157.16	70.7	56.12	5859	96.1762 ng/ml
Oxycodone	2.868	284538	1846.66	31.3	1948.13	124790	103.2077 ng/ml
Oxymorphone	1.423	64086	650.26	47.2	700.38	23986	98.7196 ng/ml
Phentermine	3.798	96689	2363.96	2.2	102.31	121444	104.7982 ng/ml
Promethazine	5.548	160716	412.97	30.2	536.47	74428	98.0848 ng/ml
Quetiapine	5.524	413526	5113.22	59.5	9576.60	54597	105.3598 ng/ml
Sertraline	5.784	23415	969.68	88.7	2073.16	10404	97.6384 ng/ml
Temazepam	5.825	106125	506.16	30.0	193.57	56911	100.6905 ng/ml
Tramadol	4.260	1006316	2388.93	3.4	511.74	531661	103.6318 ng/ml
Trazodone	5.045	276031	32180.63	78.6	31102.36	119194	96.3039 ng/ml
Venlafaxine	5.061	675003	23304.53	36.7	879.91	380050	97.6347 ng/ml
Zolpidem	4.824	1089583	787.96	30.7	86007.26	521704	100.8376 ng/ml

compound not evaluated

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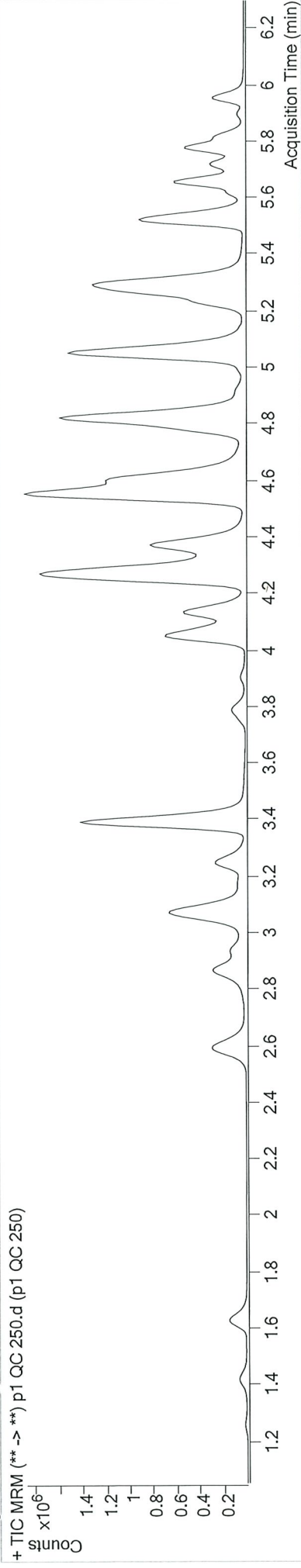


AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
11/15/2019 8:07:03 AM

Instrument Type	Falco	Data File	p1 QC 250.d
Acq. Method	QC	Sample	p1 QC 250
Sample Position	MDQ P1 Combined 092319.m	Operator	
Injection Volume	P1-C2	Comment	
Acq. Date-Time	2		
Sample Info.	11/13/2019 11:06:36 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	24210	48909.26	70.7	27027.86	19287	25.2382 ng/ml
7-aminoclonazepam	4.271	226805	∞	82.3	11192.81	41266	236.2217 ng/ml
a-hydroxylprazolam	5.700	15743	∞	67.6	415.60	3299	254.8364 ng/ml
alpha-PVP	4.377	1336997	50050.96	50.1	1619.83	244581	247.5976 ng/ml
Alprazolam	5.784	518366	1544.19	103.6	2940.96	48941	257.5207 ng/ml
Amphetamine	3.081	1284378	20086.20	53.7	10634.22	62629	248.1943 ng/ml
Benzoyllecgonine	3.907	52431	8579.00	7.6	2001.03	8485	263.1251 ng/ml
Buprenorphine	5.652	22672	1779.17	14.7	1648.37	35287	27.3061 ng/ml
Bupropion	4.793	851837	45230.82	57.8	29329.55	124012	261.2029 ng/ml
Carisoprodol	5.726	293321	9452.78	53.4	1111.82	59889	249.7361 ng/ml
Citalopram	5.236	688491	632.09	41.7	∞	128236	248.1578 ng/ml
Clonazepam	5.614	56283	795.39	33.5	10299.03	4166	268.4638 ng/ml
Cocaine	4.284	1447198	128803.09	44.3	96441.67	461005	243.6759 ng/ml
Codeine	2.610	163012	15508.15	100.2	9069.42	29093	271.4628 ng/ml
Cyclobenzaprine	5.631	179084	15983.41	10.0	396.63	25401	252.8765 ng/ml
Dextromethorphan	5.285	310296	922.27	79.8	433.40	56873	250.1997 ng/ml
Dextrorphan	4.140	401744	1099.70	209.4	1688.80	210702	258.3486 ng/ml
Diazepam	5.961	306688	4894.91	87.2	5698.46	61898	250.1079 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	464754	60251.30	66.8	∞	110094	255.1826 ng/ml
Diphenhydramine	5.306	1438962	91043.61	33.8	7232.51	456068	247.6043 ng/ml
Doxylamine	4.554	3406541	96549.15	97.2	10343.42	577353	246.5086 ng/ml
EDDP	5.278	1239088	46540.45	42.7	∞	272211	251.1215 ng/ml
Fentanyl	5.086	23677	3983.55	68.8	75126.87	47433	24.9488 ng/ml
Fluoxetine	5.716	102481	8032.69	9.2	73528.53	18095	249.8469 ng/ml
Hydrocodone	3.052	396270	268.54	41.7	363.60	106061	254.8128 ng/ml
Hydromorphone	1.634	285147	1590.59	74.8	2377.60	43620	246.7796 ng/ml
Ketamine	4.053	1251330	55245.42	38.6	1933.73	238124	257.0117 ng/ml
Lamotrigine	4.295	112106	7787.88	78.9	5896.84	238124	227.8964 ng/ml
Lorazepam	5.755	19613	603.95	57.8	180.76	4166	243.9526 ng/ml
Meprobamate	4.922	82552	6218.83	26.0	212.18	16485	253.1641 ng/ml
Methadone	5.661	780726	18676.43	52.5	50885.49	149884	241.0385 ng/ml
Methamphetamine	3.255	596719	1321.34	43.3	1347.50	119579	252.2740 ng/ml
Metoprolol	4.340	269199	∞	97.0	13111.32	606441	259.0674 ng/ml
Mirtazapine	4.609	1571556	181373.23	48.6	5517.46	244581	228.8155 ng/ml
Mitragynine	5.214	135246	11188.12	39.7	297333.75	149884	253.8378 ng/ml
Morphine	1.266	51542	11427.41	21.4	912.58	2150	238.9565 ng/ml
Norbuprenorphine	5.010	737	66.25	69.0	185.63	1297	29.1963 ng/ml
Nordiazepam	5.901	69327	766.31	56.8	924.86	8783	261.5721 ng/ml
Norfentanyl	4.102	174082	302.57	37.2	740.90	325834	24.8511 ng/ml
Norhydrocodone	3.100	15814	283.84	40.9	496.12	26168	285.7637 ng/ml
Noroxycodone	2.943	261103	1209.88	49.0	437.96	32962	244.7344 ng/ml
O-desmethyl-tramadol	3.394	3276200	176408.69	6.1	8185.00	708538	257.0527 ng/ml
Oxazepam	5.758	23011	144.27	69.3	46.99	5844	250.1444 ng/ml
Oxycodone	2.868	819878	10260.83	31.7	1697.02	140572	264.3879 ng/ml
Oxymorphone	1.423	164337	∞	48.3	∞	23821	255.7207 ng/ml
Phentermine	3.798	296255	5592.29	2.1	635.44	153117	255.8729 ng/ml
Promethazine	5.548	425500	1362.21	30.2	781.29	79102	243.9951 ng/ml
Quetiapine	5.517	1281474	∞	59.9	∞	68317	261.2768 ng/ml
Sertraline	5.784	50512	1519.46	89.7	2831.64	9031	242.0468 ng/ml
Temazepam	5.825	272473	1427.27	30.0	1156.24	57884	254.0898 ng/ml
Tramadol	4.260	2973703	5597.82	3.4	445.21	606441	269.7987 ng/ml
Trazodone	5.045	825276	159921.74	78.7	181951.47	141069	243.5924 ng/ml
Venlafaxine	5.061	2083193	2200.07	36.4	2600.01	461120	248.0732 ng/ml
Zolpidem	4.824	3056713	2076.45	30.8	874.39	575946	256.5942 ng/ml

Compound not evaluated. TS

TS

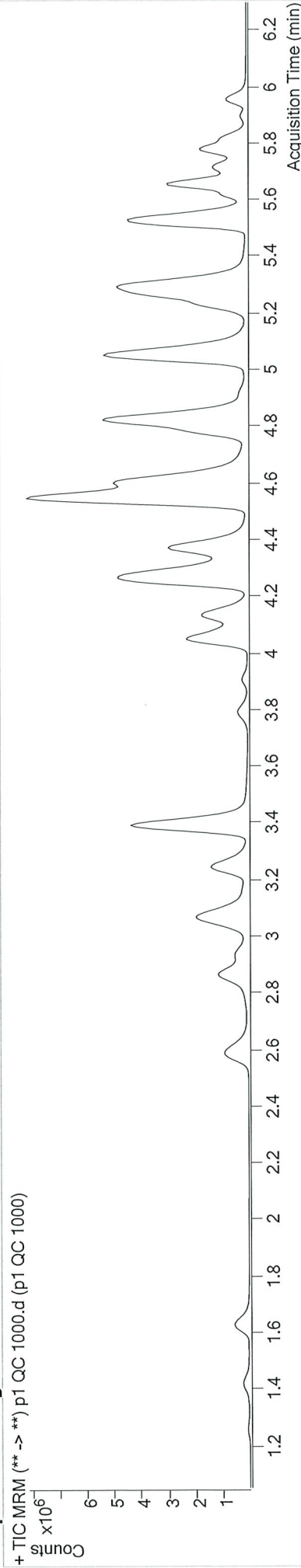


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 QC 1000.d
Type	QC	Sample	p1 QC 1000
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-D2	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 11:27:47 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	102227	207546.27	71.8	49520.43	19323	106.4488 ng/ml
7-aminoclonazepam	4.271	443129	17283.60	82.5	20427.85	25458	750.4756 ng/ml
a-hydroxyvalprazolam	5.700	67018	277.01	68.3	429.94	3599	993.3732 ng/ml
alpha-PVP	4.377	5527176	474544.54	50.0	∞	245225	1020.4832 ng/ml
Alprazolam	5.784	1626064	6076.88	104.5	4837.58	39589	999.9108 ng/ml
Amphetamine	3.075	3871203	59160.37	54.3	118905.09	64916	724.3689 ng/ml
Benzoylcegonine	3.907	300241	1547.93	7.6	5765.73	9704	1323.9464 ng/ml
Buprenorphine	5.652	91286	5626.45	16.3	∞	42521	91.2123 ng/ml
Bupropion	4.793	3542029	311799.64	57.6	165213.37	138676	974.2950 ng/ml
Carisoprodol	5.733	898287	190658.18	53.7	4906.84	44689	1024.8849 ng/ml
Citalopram	5.236	3042361	1102.76	41.9	1776.61	141684	992.2083 ng/ml
Clonazepam	5.614	220747	699.04	33.7	9152.55	4988	882.0234 ng/ml
Cocaine	4.284	5054843	141574.38	43.7	468245.25	393015	998.9443 ng/ml
Codeine	2.610	563407	420.57	99.8	975.92	26340	1040.7721 ng/ml
Cyclobenzaprine	5.631	1604876	262518.89	10.1	8321.67	56322	1022.6792 ng/ml
Dextromethorphan	5.285	1405625	488.00	78.6	65066.99	64680	996.9636 ng/ml
Dextroproprian	4.140	1559810	519129.80	210.4	238557.25	203586	1038.9791 ng/ml
Diazepam	5.961	1010533	∞	87.0	9692.50	51644	988.6586 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.581	1672911	50933.27	67.0	77426.95	120812	839.2195 ng/ml
Diphenhydramine	5.306	6394780	1326652.01	33.5	20497.98	487834	1027.9609 ng/ml
Doxylamine	4.548	15631227	424000.16	96.2	631712.69	657893	992.4734 ng/ml
EDDP	5.278	5747940	135996.78	42.2	78802.34	313151	1013.1148 ng/ml
Fentanyl	5.086	168510	1948.74	74.7	1924.47	74889	112.1478 ng/ml
Fluoxetine	5.716	1299414	65889.31	9.0	1254.68	58007	986.9820 ng/ml
Hydrocodone	3.045	1671497	236.74	41.7	264.31	122212	933.6261 ng/ml
Hydromorphone	1.634	1131705	∞	77.1	1979.97	44607	958.4384 ng/ml
Ketamine	4.053	4985587	608130.22	38.2	17940.23	254131	960.5396 ng/ml
Lamotrigine	4.302	260140	17782.20	79.4	5321.10	254131	497.2685 ng/ml <i>outside curve range. IS</i>
Lorazepam	5.755	116942	1181.02	55.2	1005.58	4988	1216.1111 ng/ml
Meprobamate	4.929	329631	36763.34	25.5	∞	17101	976.0585 ng/ml
Methadone	5.661	4363026	4507.46	50.8	1401.75	202067	997.9005 ng/ml
Methamphetamine	3.249	3493800	26226.30	42.8	1841.03	192938	918.9278 ng/ml
Metoprolol	4.340	842794	1657430.95	95.6	9730.82	578400	852.2637 ng/ml
Mirtazapine	4.609	7649483	368271.82	48.7	65160.82	245225	1107.1858 ng/ml
Mitragynine	5.214	809707	∞	40.0	4221776.3 ⁹	202067	1129.2057 ng/ml
Morphine	1.266	196419	7292.57	21.6	1763.61	2069	946.7153 ng/ml
Norbuprenorphine	5.003	2707	50.13	76.6	50.28	1475	97.0772 ng/ml <i>Not evaluated. IS</i>
Nordiazepam	5.901	274684	1995.32	57.7	1715.40	8894	1025.1311 ng/ml
Norfentanyl	4.102	761225	4271.55	37.5	∞	333149	106.2510 ng/ml
Norhydrocodone	3.100	71019	518.95	40.1	372.13	24458	1369.6669 ng/ml <i>outside curve range. IS</i>
Noroxycodone	2.943	1007970	8924.27	48.3	437.67	32281	965.8395 ng/ml
O-desmethyl-tramadol	3.394	12630205	547100.49	6.0	24471.37	675485	1040.1990 ng/ml
Oxazepam	5.758	132403	∞	70.5	549.39	8427	992.9619 ng/ml
Oxycodone	2.861	3621153	17248.21	31.2	23503.56	160539	1023.1984 ng/ml
Oxymorphone	1.423	691052	∞	45.1	∞	26621	963.6531 ng/ml
Phentermine	3.798	1148311	2658.82	2.0	1741.28	178928	850.6480 ng/ml
Promethazine	5.548	3982448	4300.91	29.8	44124.57	176184	1024.5668 ng/ml
Quetiapine	5.517	5926767	7086.23	59.3	3781.62	89378	924.2411 ng/ml
Sertraline	5.784	535575	∞	91.0	∞	23988	964.9754 ng/ml
Temazepam	5.825	1150333	15786.43	30.0	2196.69	58520	1060.8969 ng/ml
Tramadol	4.260	10231234	117373.58	3.3	∞	578400	975.4335 ng/ml
Trazodone	5.038	3816229	∞	78.3	506572.24	194900	815.7837 ng/ml <i>outside curve range. IS</i>
Venlafaxine	5.061	8296796	250934.34	36.5	3356.62	447626	1017.2487 ng/ml
Zolpidem	4.830	12042159	75375.08	29.9	130891.25	589018	989.0823 ng/ml

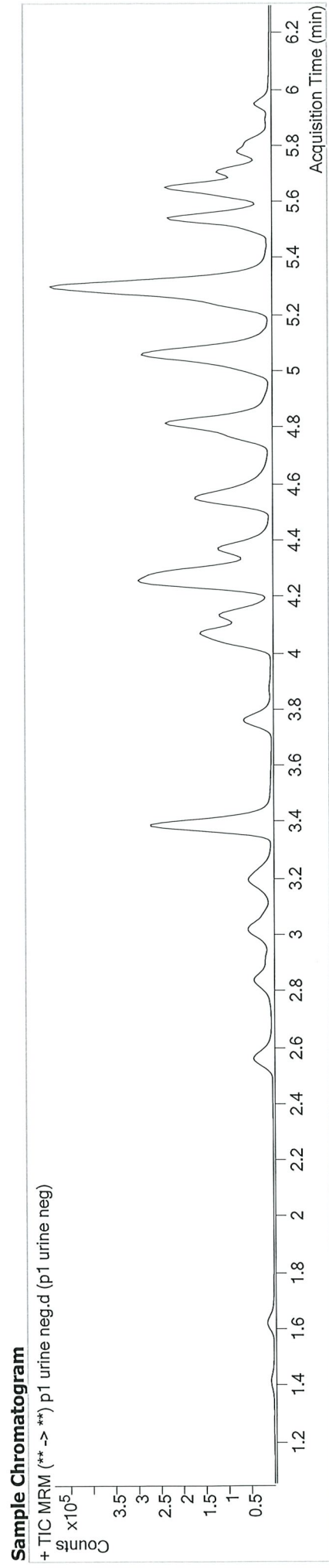
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TS



AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 urine neg.d
Type	Sample	Sample	p1 urine neg
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-G4	Comment	
Injection Volume	2		
Acq. Date-Time	11/14/2019 4:22:13 PM		
Sample Info.			



TS



AM #28 Multi-Drug Quant. Results

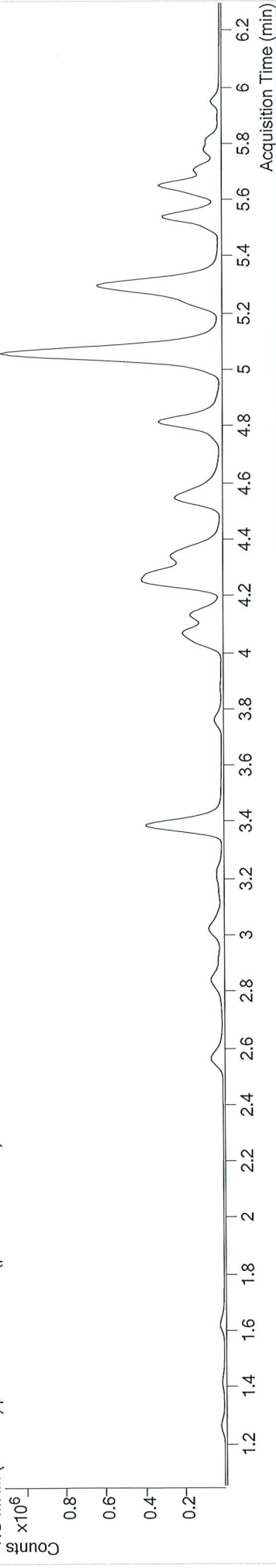
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Instrument	Falco	Data File	p1 urine ext ctrl.d
Type	Sample	Sample	p1 urine ext ctrl
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-H4	Comment	
Injection Volume	2		
Acq. Date-Time	11/14/2019 4:43:24 PM		

Sample Info.

Sample Chromatogram

+ TIC MRM (** -> **) p1 urine ext ctrl.d (p1 urine ext ctrl)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clonazepam	5.647	2437	60.07	9.1 Low	25.62	5793	7.2965 ng/ml
Metoprolol	4.340	279117	99413.15	96.9	6341.25	1083760	149.9642 ng/ml
Morphine	1.266	51646	32681.61	22.0	359.57	3940	130.5846 ng/ml
Trazodone	5.058	1416676	∞	78.7	96661.56	473590	124.4562 ng/ml

Ratio outside range

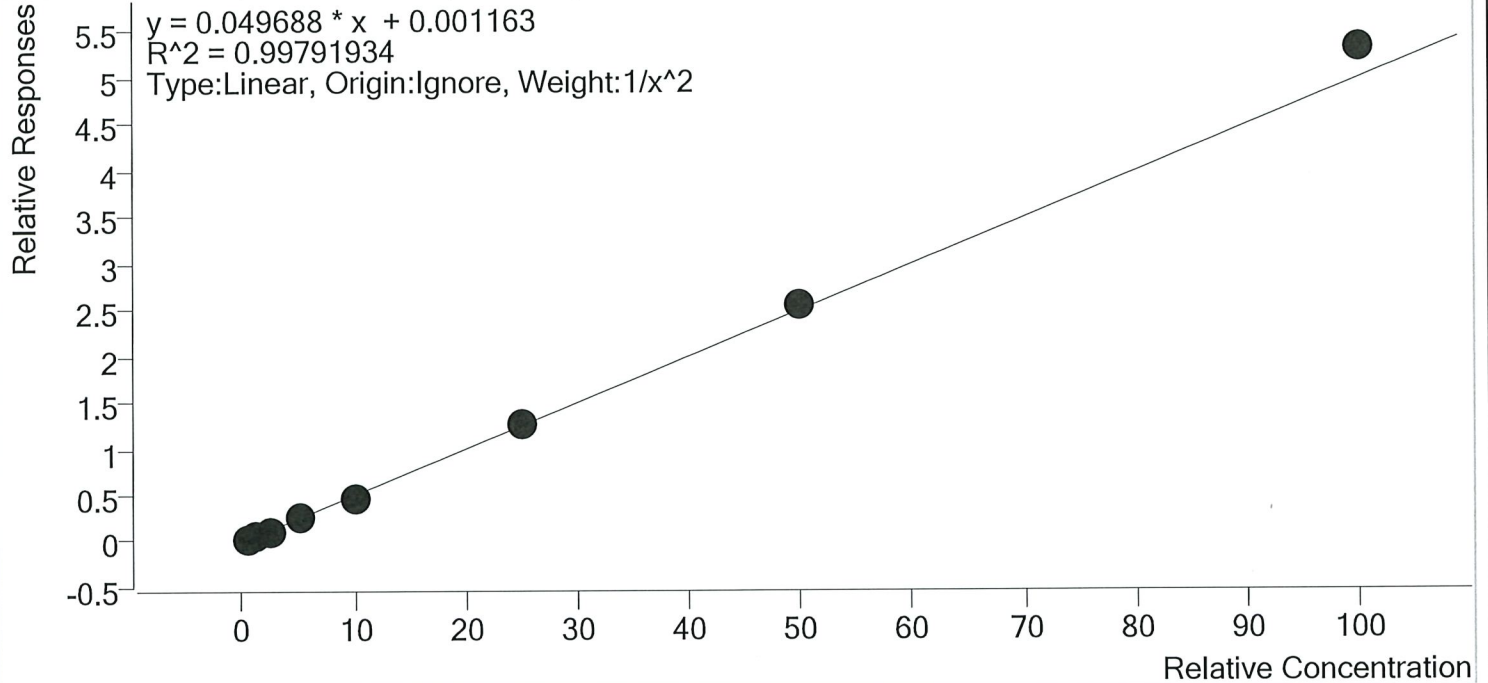
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	100.3
p1 Cal 3 -25ng	3	✓	2.5	2.3	93.7
p1 Cal 4-50ng	4	✓	5.0	5.0	99.8
p1 Cal 5-100ng	5	✓	10.0	9.6	95.5
p1 Cal 6-250ng	6	✓	25.0	25.3	101.0
p1 Cal 7-500ng	7	✓	50.0	50.9	101.7
p1 Cal 8-1000ng	8	✓	100.0	106.6	106.6

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AM #28 Multi-Drug Quant. Calibration Curve Report

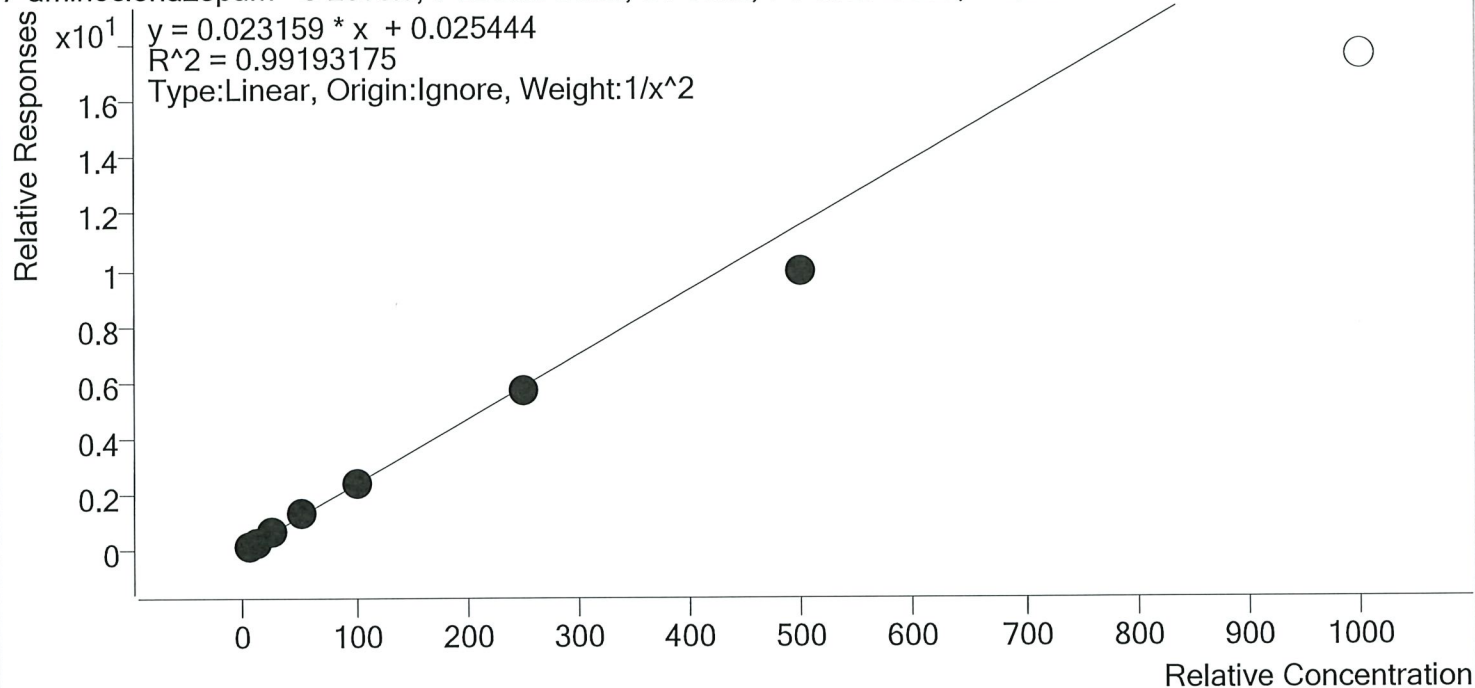
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

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

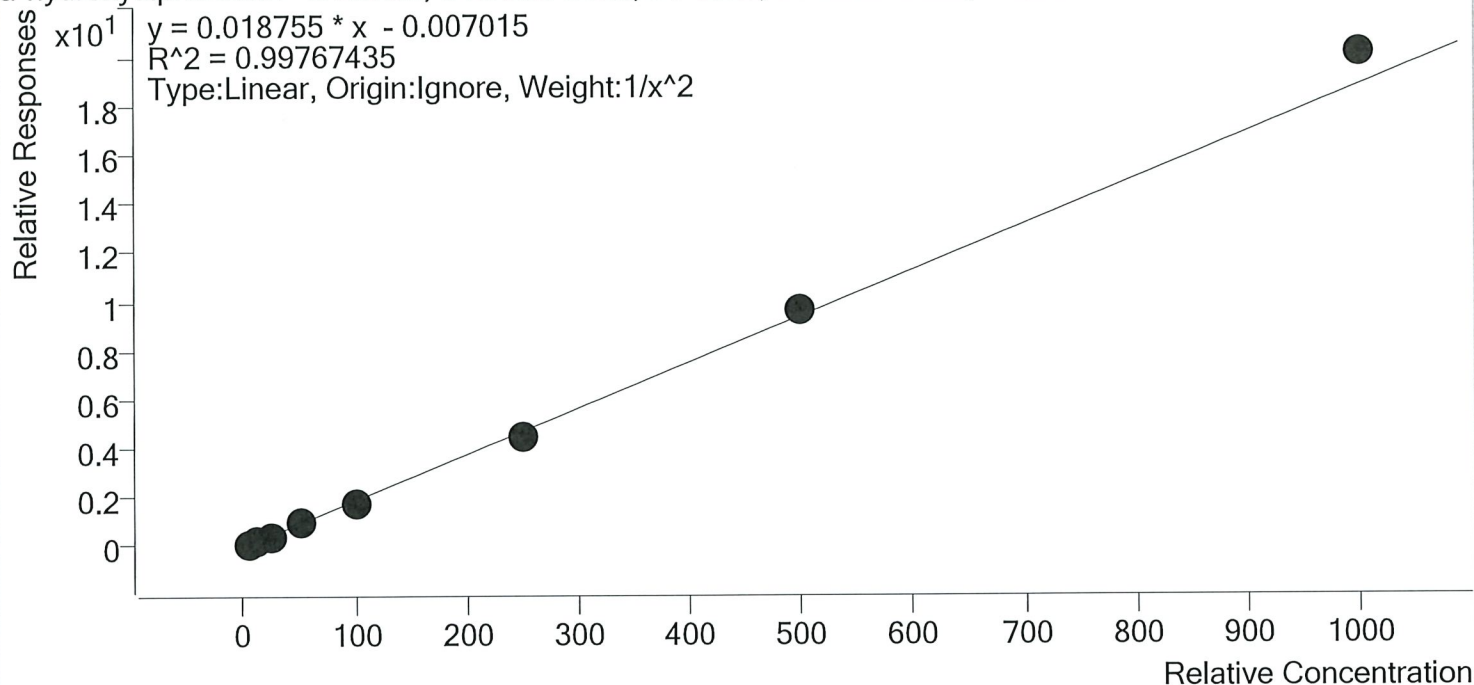


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.6
p1 Cal 4-50ng	4	✓	50.0	53.2	106.3
p1 Cal 5-100ng	5	✓	100.0	102.9	102.9
p1 Cal 6-250ng	6	✓	250.0	244.9	98.0
p1 Cal 7-500ng	7	✓	500.0	427.9	85.6
p1 Cal 8-1000ng	8	×	1000.0	759.7	76.0

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklst 3826 TS.batch.bin		
Last Cal. Update	11/15/2019 8:07 AM		
Analyst Name	ISP\datastor		
Analyte	a-hydroxyalprazolam	Internal Standard	a-hydroxyalprazolam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	23.7	94.9
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	95.5	95.5
p1 Cal 6-250ng	6	✓	250.0	241.4	96.6
p1 Cal 7-500ng	7	✓	500.0	517.4	103.5
p1 Cal 8-1000ng	8	✓	1000.0	1070.6	107.1

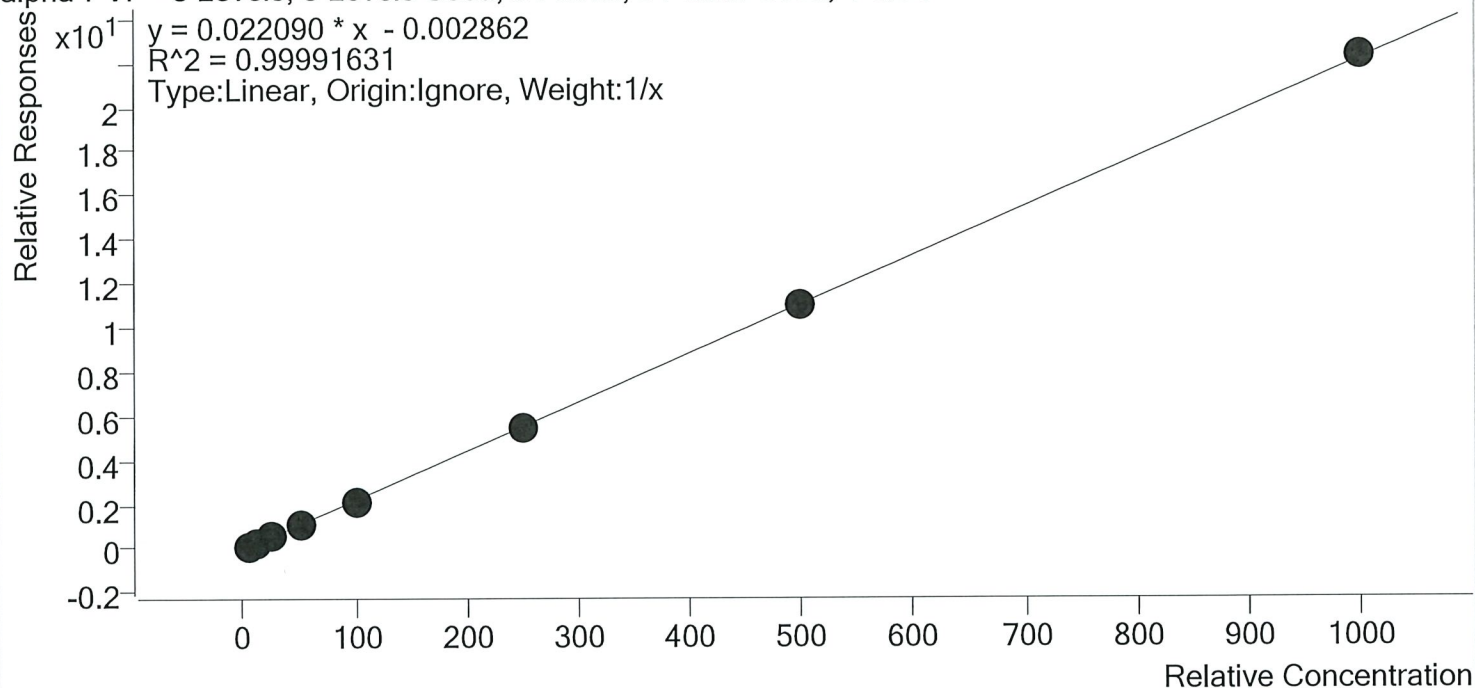
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.0
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	248.2	99.3
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1007.2	100.7

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AM #28 Multi-Drug Quant. Calibration Curve Report

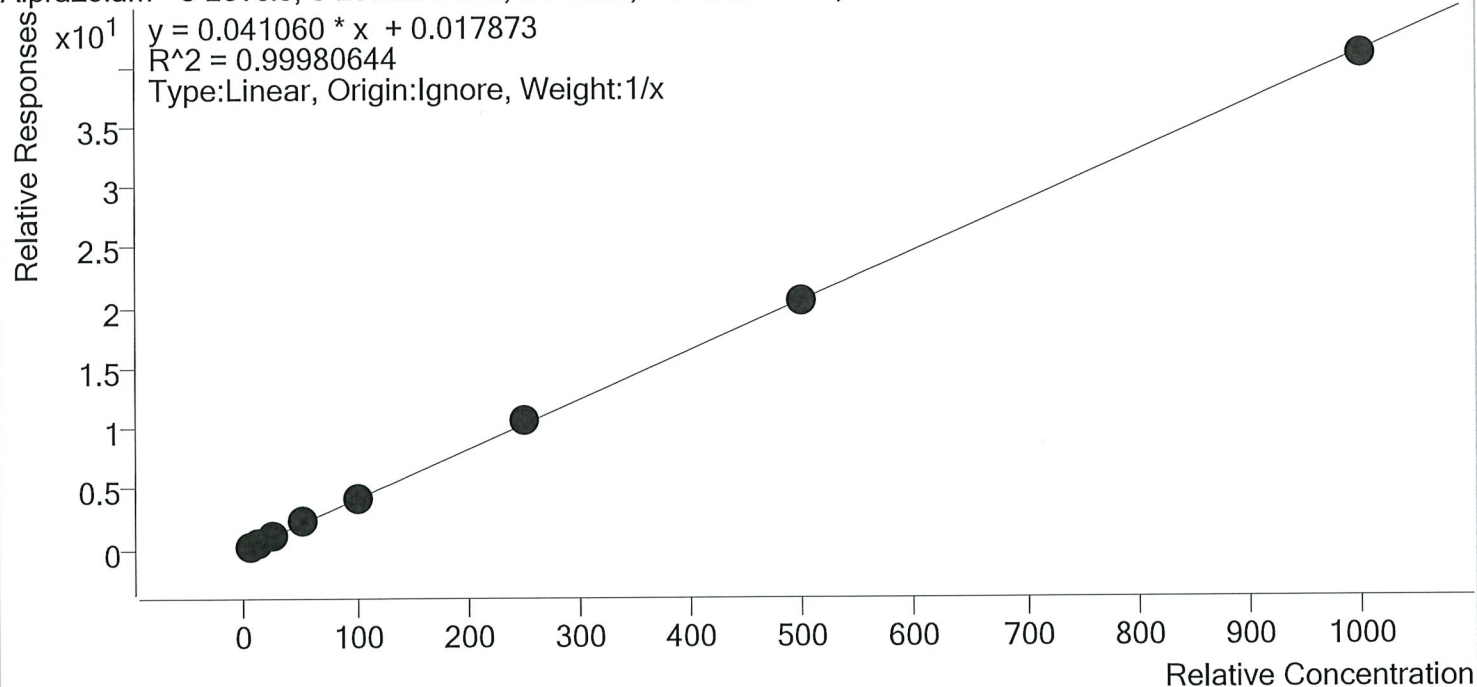
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Alprazolam **Internal Standard** Alprazolam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.2
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	52.7	105.5
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	500.7	100.1
p1 Cal 8-1000ng	8	✓	1000.0	993.2	99.3

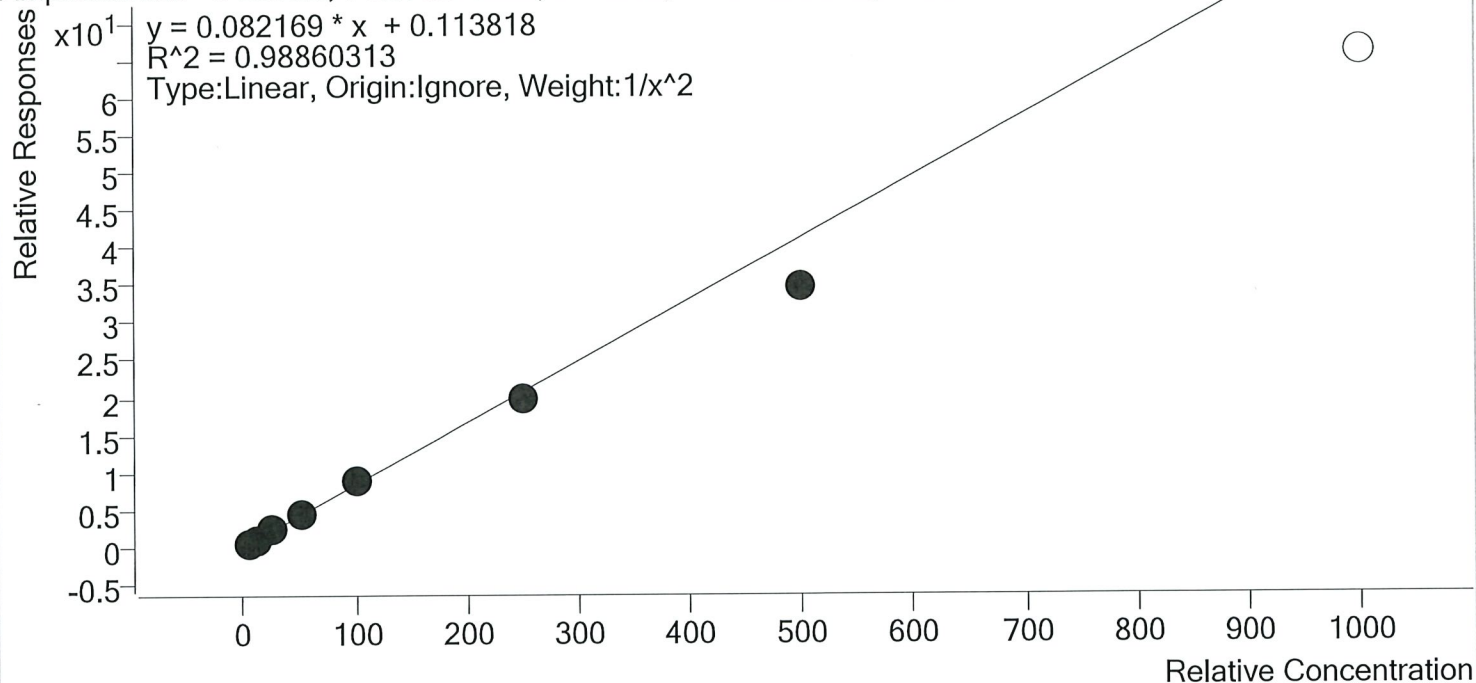
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

Amphetamine - 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	95.9
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.8
p1 Cal 4-50ng	4	✓	50.0	54.6	109.3
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	239.4	95.7
p1 Cal 7-500ng	7	✓	500.0	417.5	83.5
p1 Cal 8-1000ng	8	×	1000.0	799.1	79.9

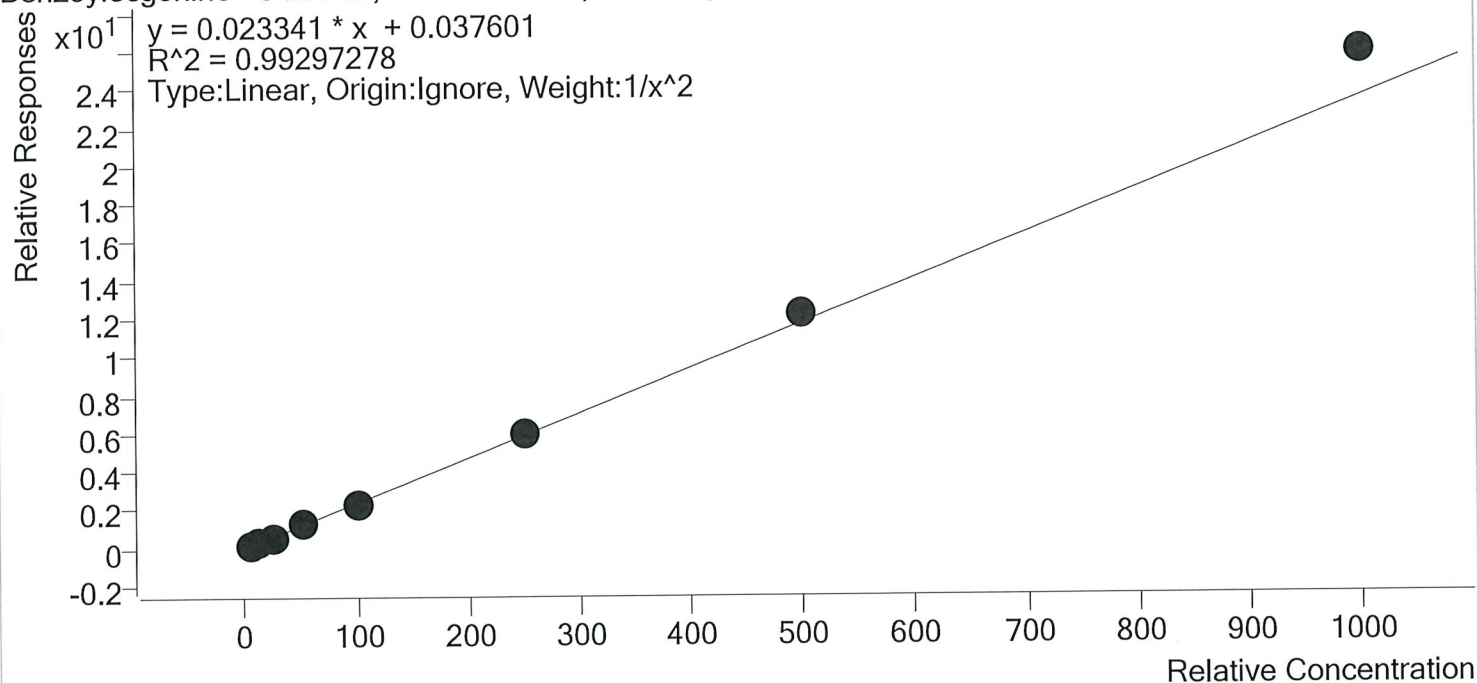
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

Benzoylecgonine - 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	5.3	106.5
p1 Cal 2- 10ng	2	✓	10.0	8.9	89.0
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.2
p1 Cal 4-50ng	4	✓	50.0	50.4	100.7
p1 Cal 5-100ng	5	✓	100.0	91.7	91.7
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	522.9	104.6
p1 Cal 8-1000ng	8	✓	1000.0	1103.2	110.3

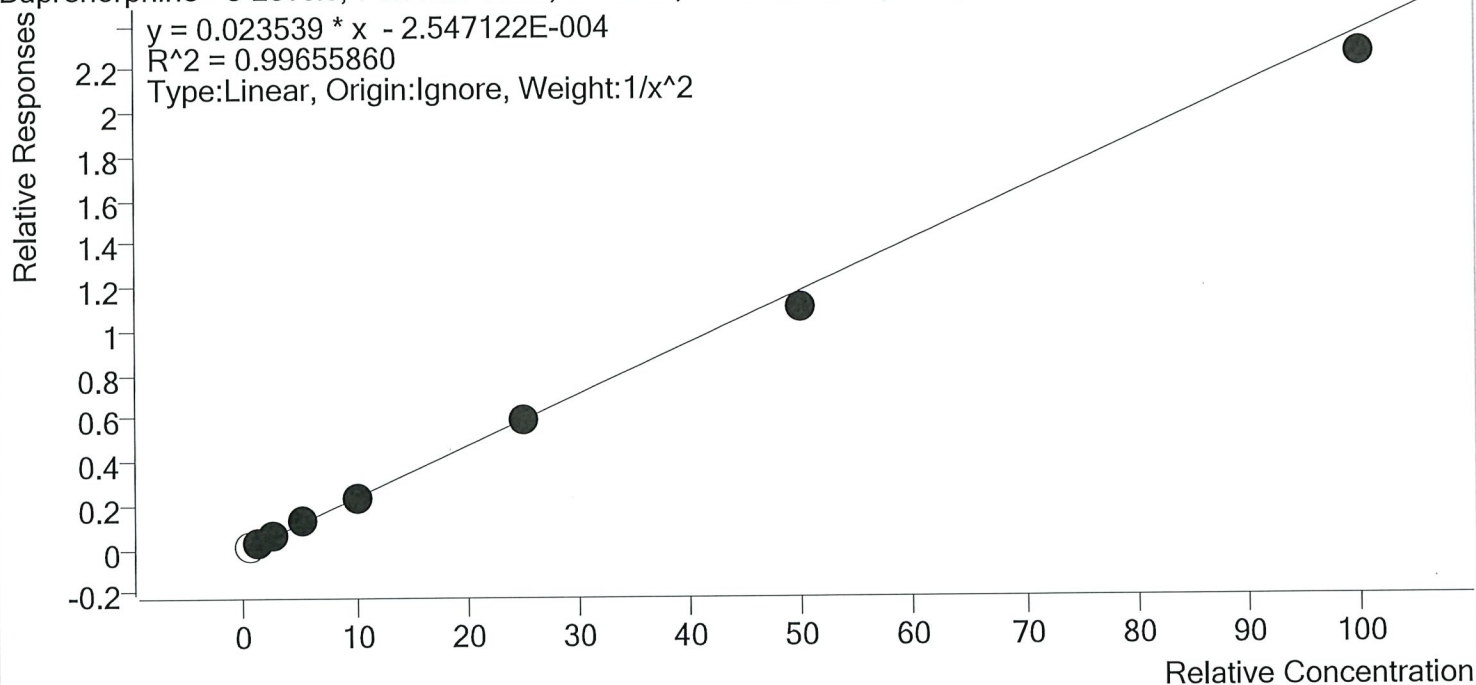
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.6	120.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	96.7
p1 Cal 3 -25ng	3	✓	2.5	2.6	104.3
p1 Cal 4-50ng	4	✓	5.0	5.4	107.8
p1 Cal 5-100ng	5	✓	10.0	10.2	101.6
p1 Cal 6-250ng	6	✓	25.0	25.0	100.2
p1 Cal 7-500ng	7	✓	50.0	46.8	93.6
p1 Cal 8-1000ng	8	✓	100.0	95.8	95.8

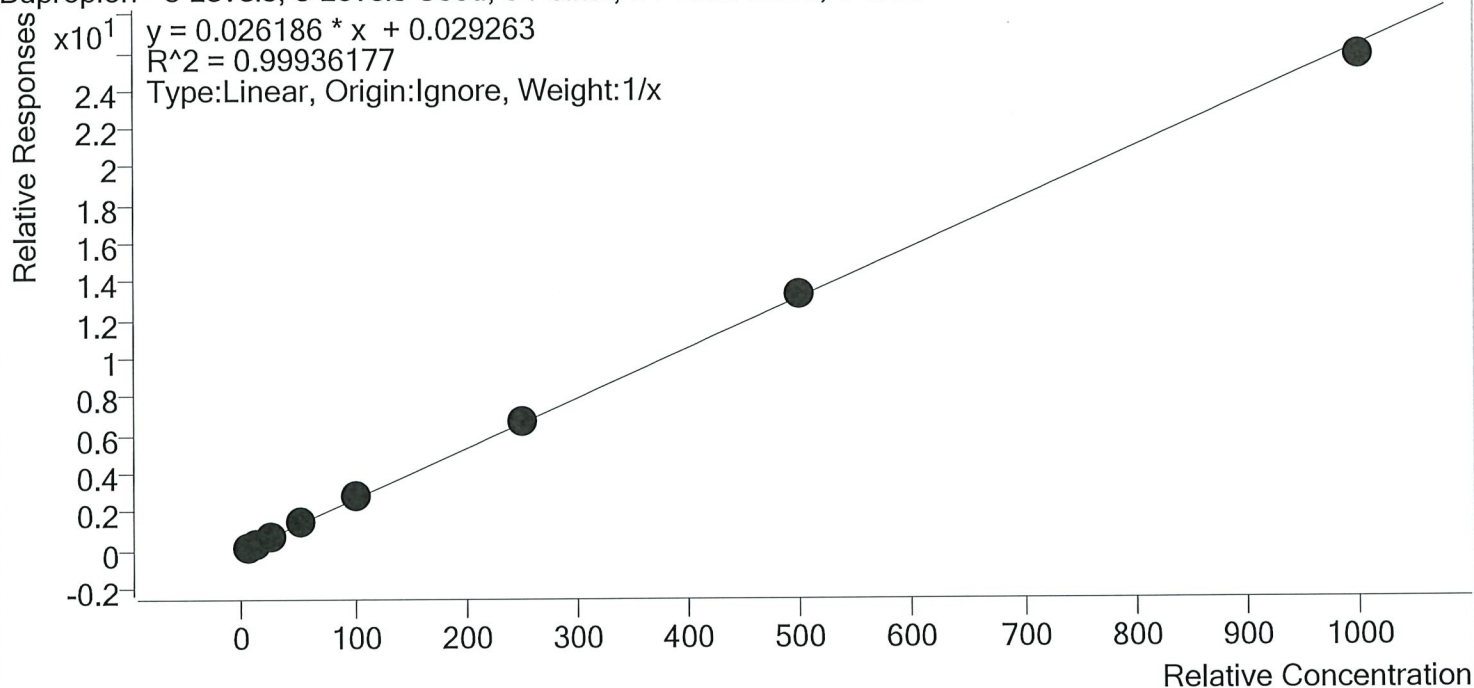
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
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Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.4	88.6
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.5
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	53.0	106.0
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	257.4	103.0
p1 Cal 7-500ng	7	✓	500.0	506.7	101.3
p1 Cal 8-1000ng	8	✓	1000.0	979.5	98.0

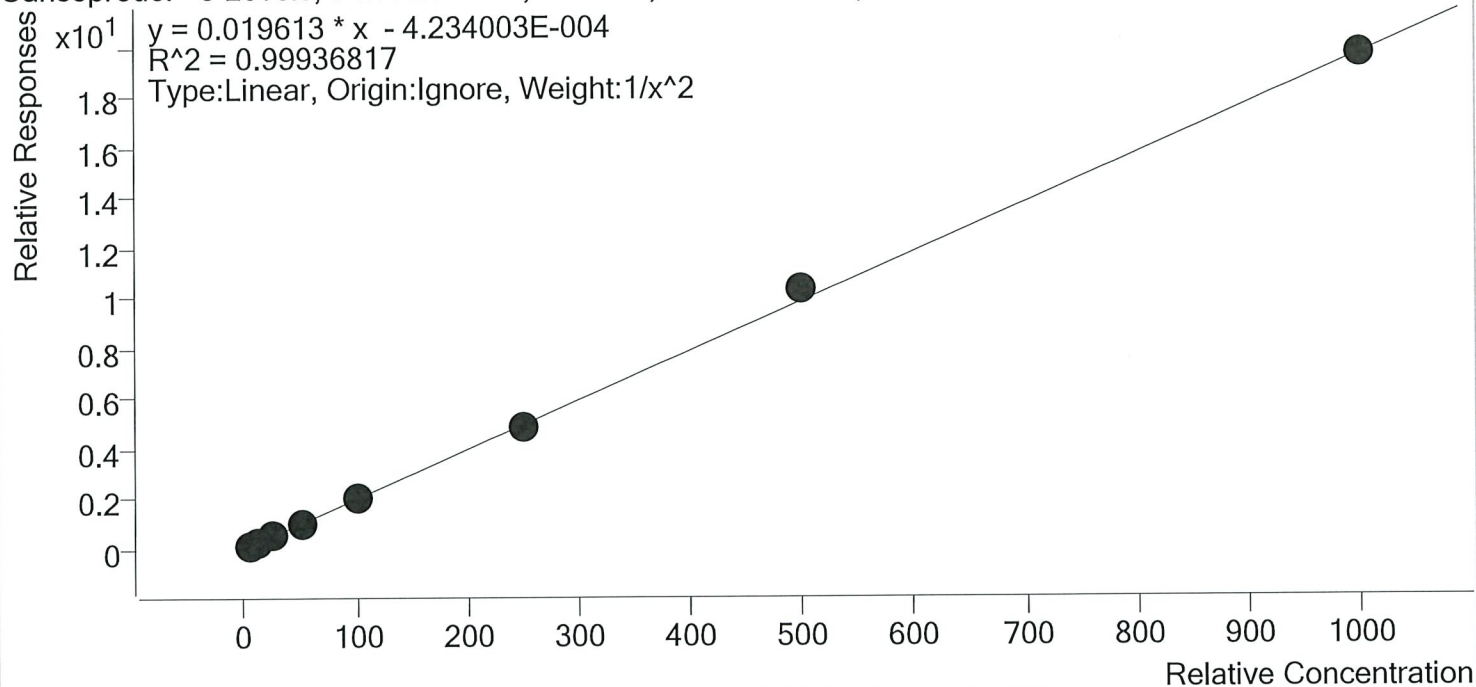
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.6
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.2
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	49.1	98.1
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	247.7	99.1
p1 Cal 7-500ng	7	✓	500.0	521.7	104.3
p1 Cal 8-1000ng	8	✓	1000.0	999.7	100.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

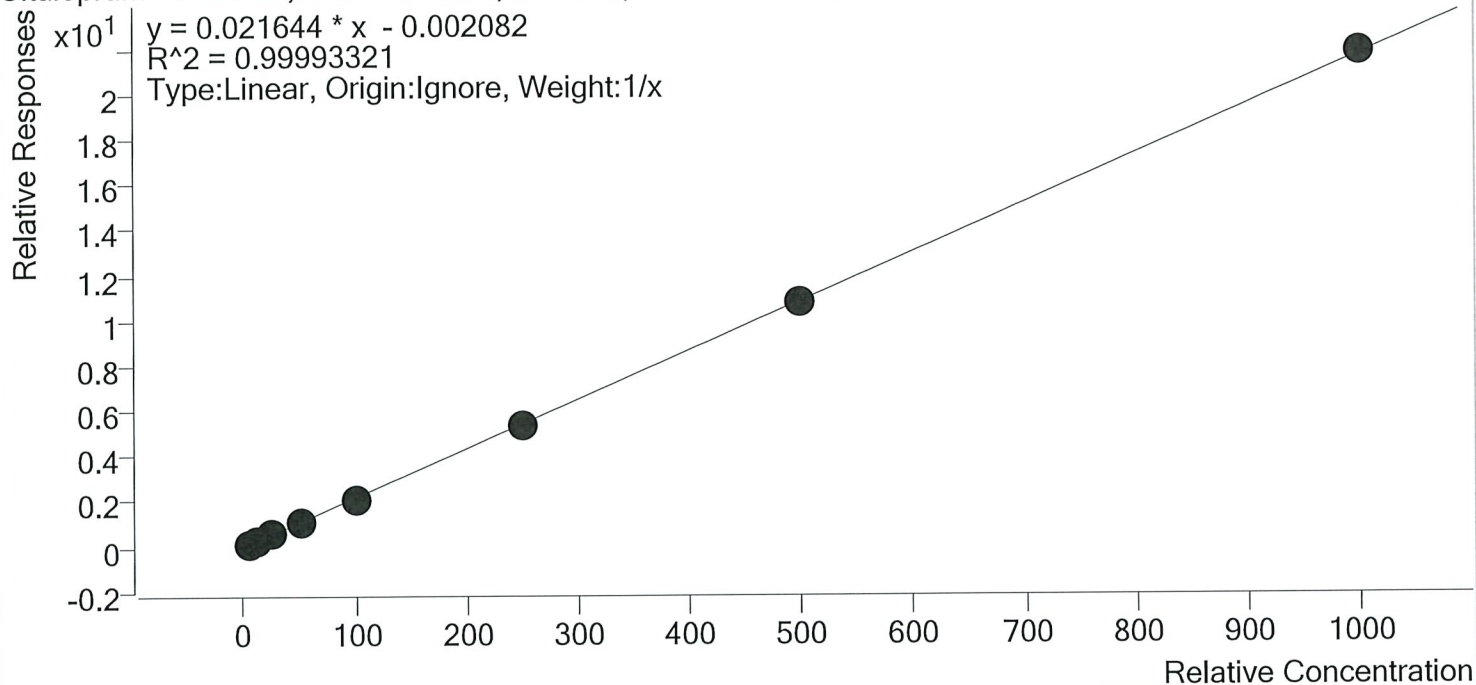
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Last Cal. Update 11/15/2019 8:07 AM

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	5.2	103.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	498.1	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1005.2	100.5

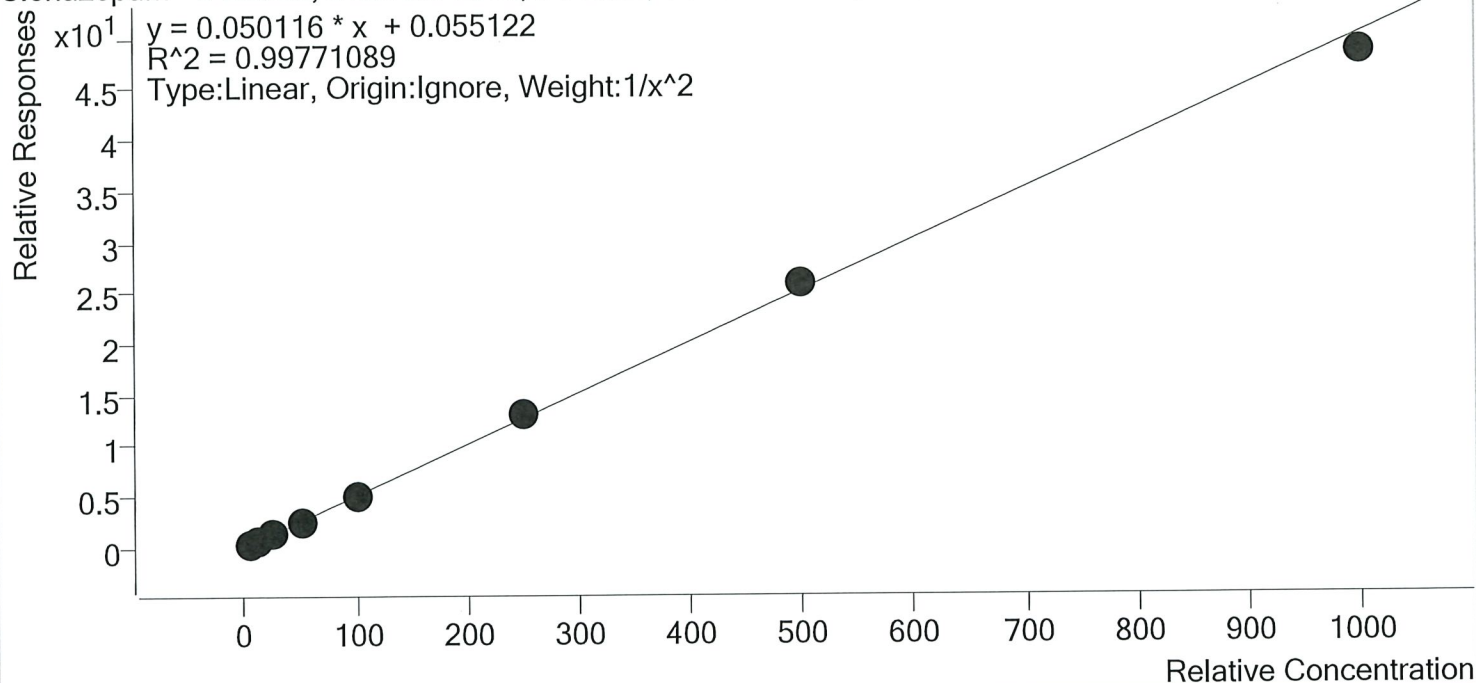
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
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	5.2	103.1
p1 Cal 2- 10ng	2	✓	10.0	9.6	95.5
p1 Cal 3 -25ng	3	✓	25.0	23.4	93.7
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	261.8	104.7
p1 Cal 7-500ng	7	✓	500.0	517.1	103.4
p1 Cal 8-1000ng	8	✓	1000.0	964.4	96.4

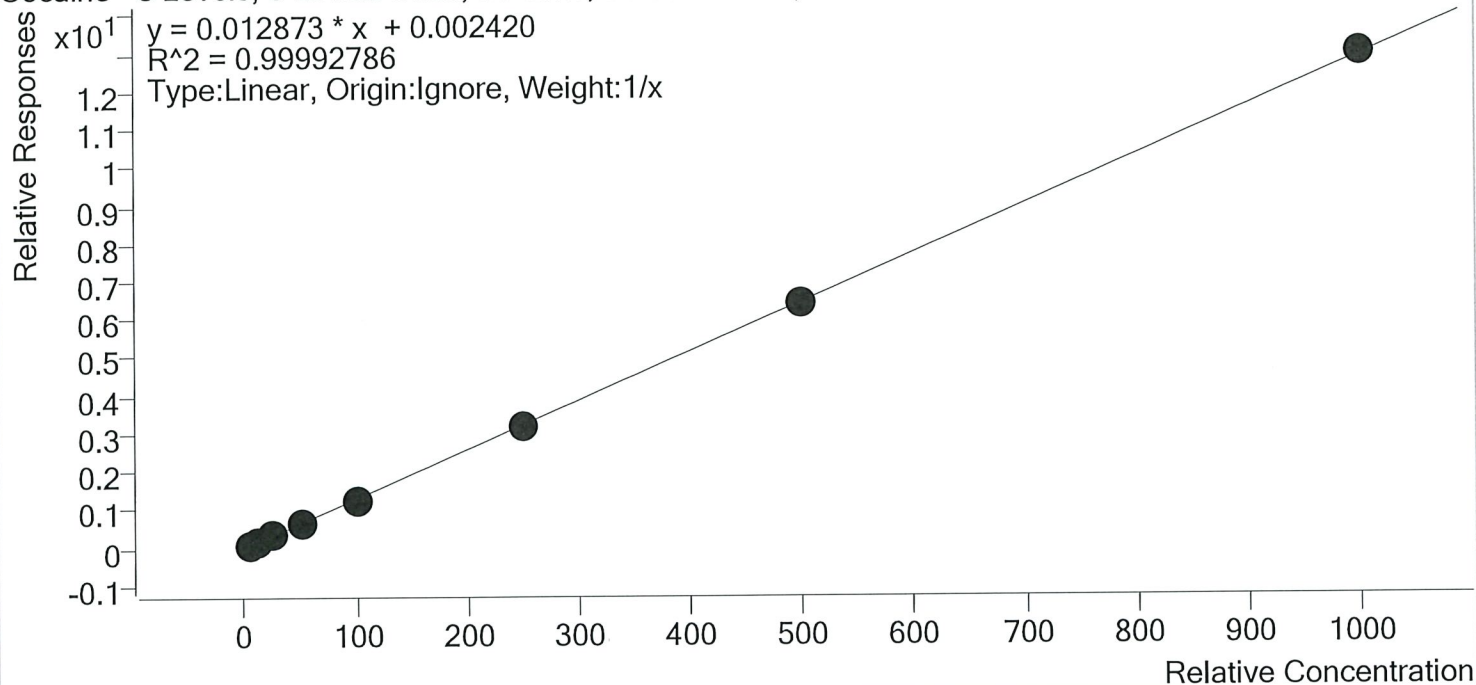
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	50.4	100.7
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
p1 Cal 7-500ng	7	✓	500.0	494.8	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1005.8	100.6

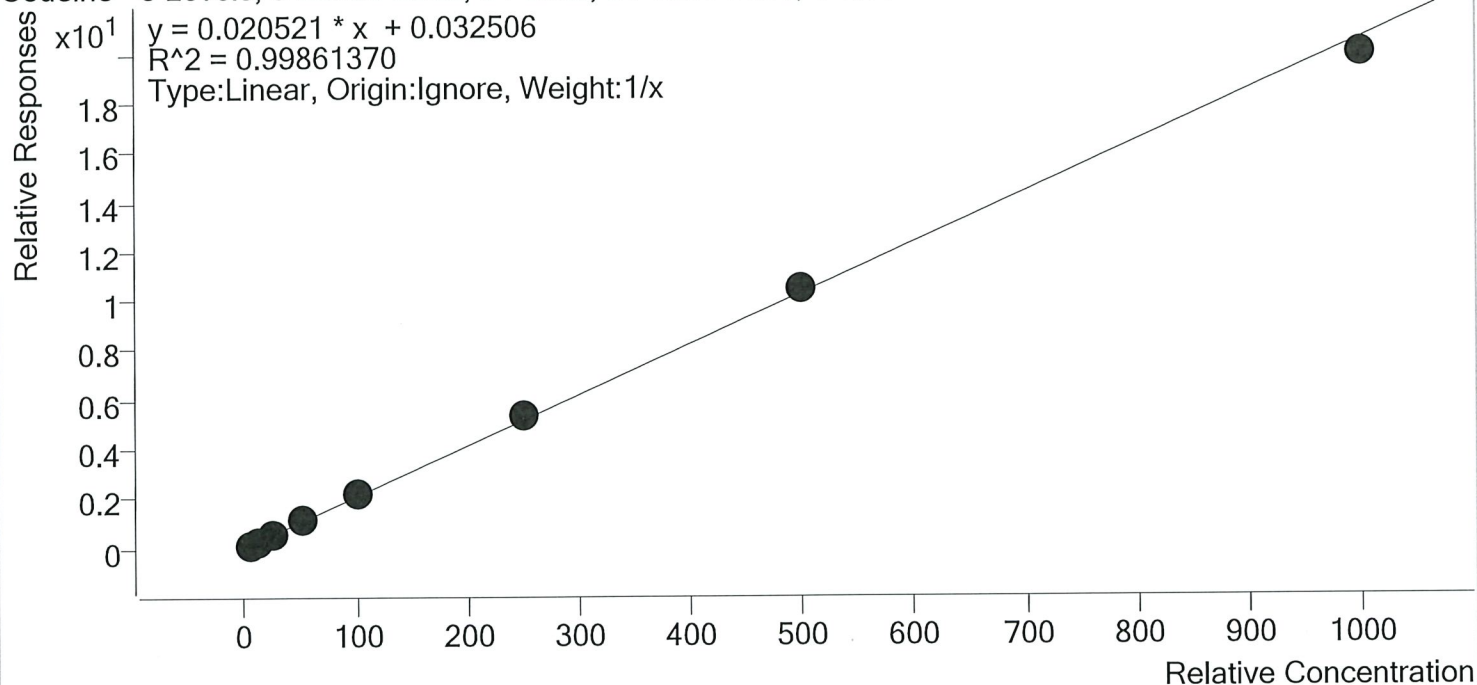
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
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	4.1	82.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.6
p1 Cal 4-50ng	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng	5	✓	100.0	108.7	108.7
p1 Cal 6-250ng	6	✓	250.0	260.4	104.2
p1 Cal 7-500ng	7	✓	500.0	509.1	101.8
p1 Cal 8-1000ng	8	✓	1000.0	970.4	97.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

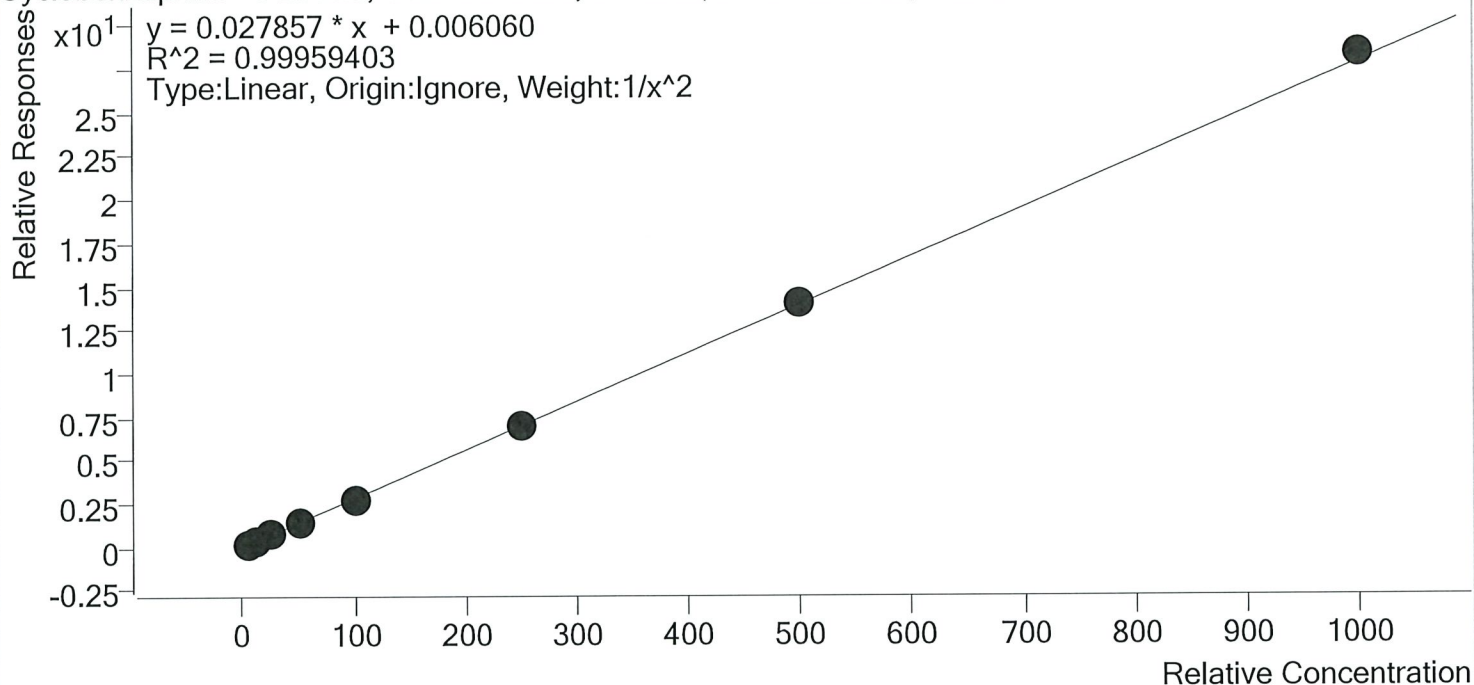
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.6
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	50.7	101.5
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	507.1	101.4
p1 Cal 8-1000ng	8	✓	1000.0	1017.6	101.8

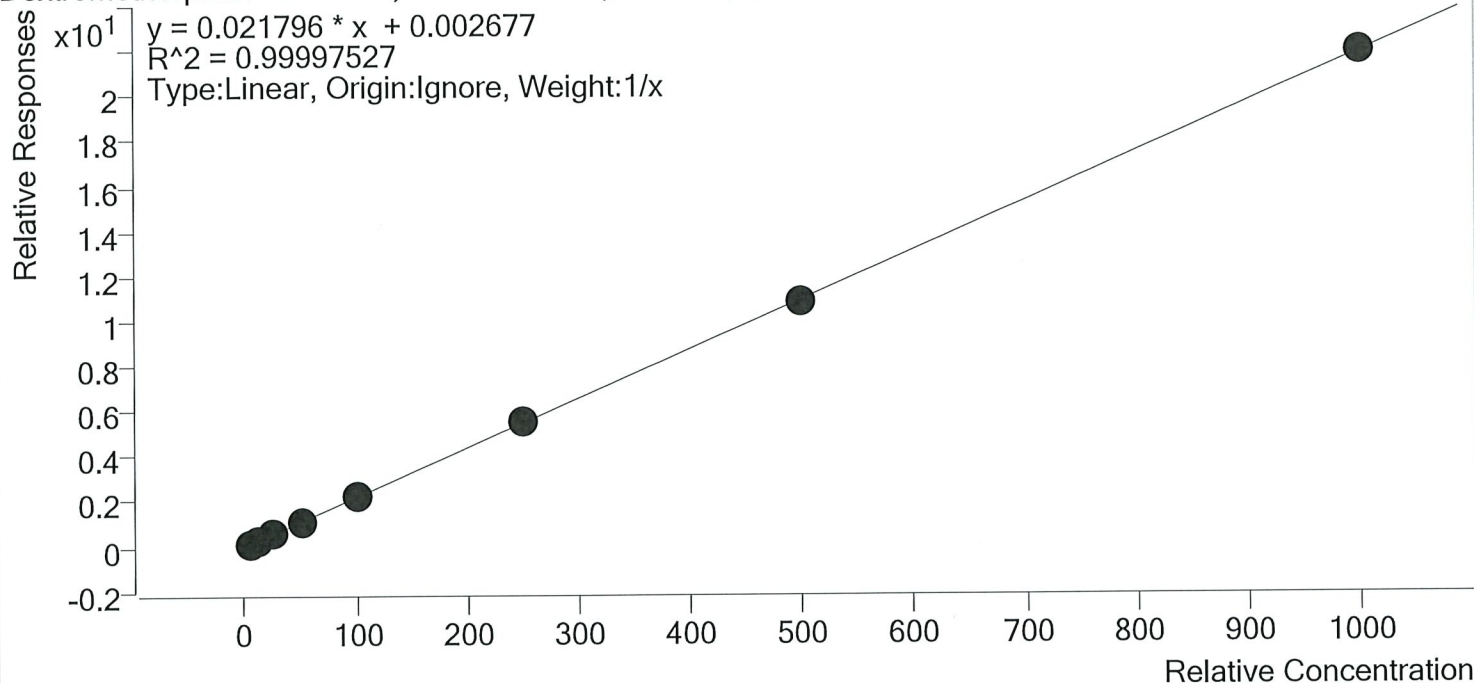
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
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	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	497.1	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1001.6	100.2

§ TS



AM #28 Multi-Drug Quant. Calibration Curve Report

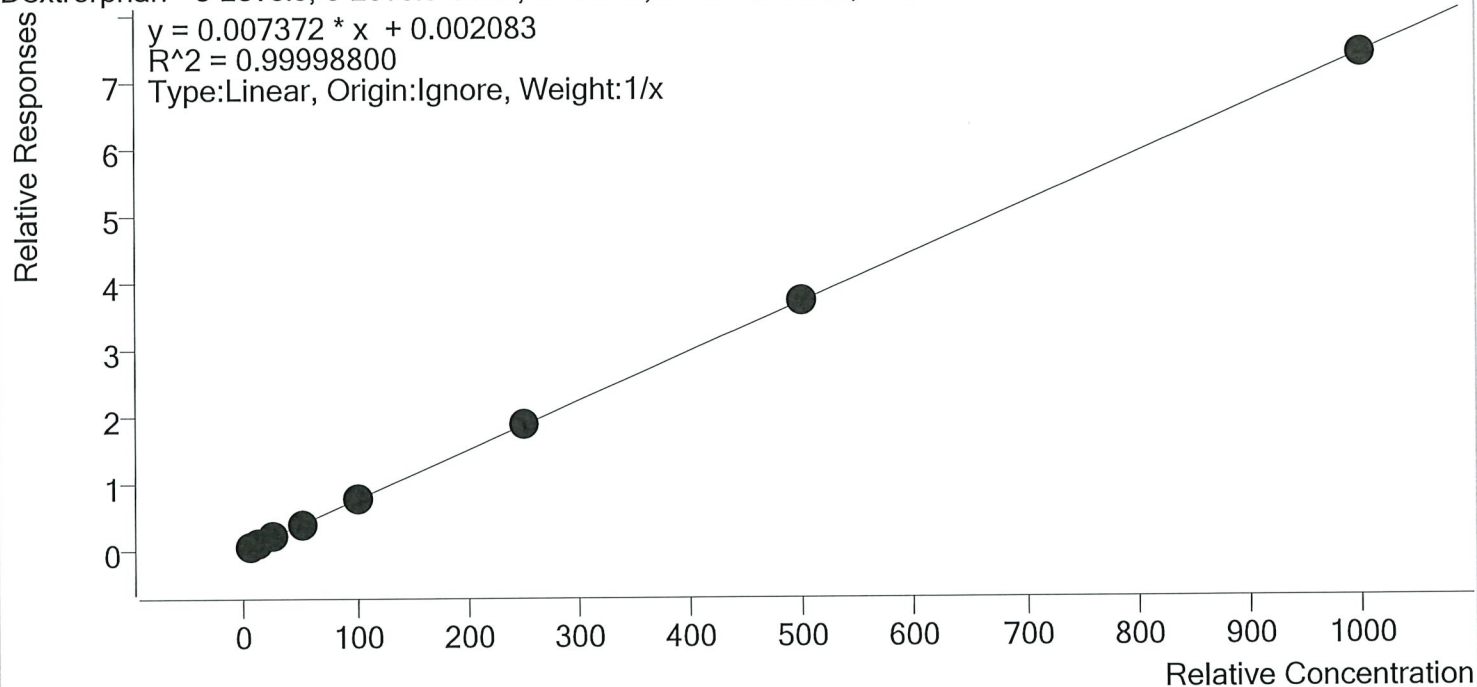
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Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Dextrorphan Internal Standard Dextrorphan-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	251.2	100.5
p1 Cal 7-500ng	7	✓	500.0	501.5	100.3
p1 Cal 8-1000ng	8	✓	1000.0	998.2	99.8

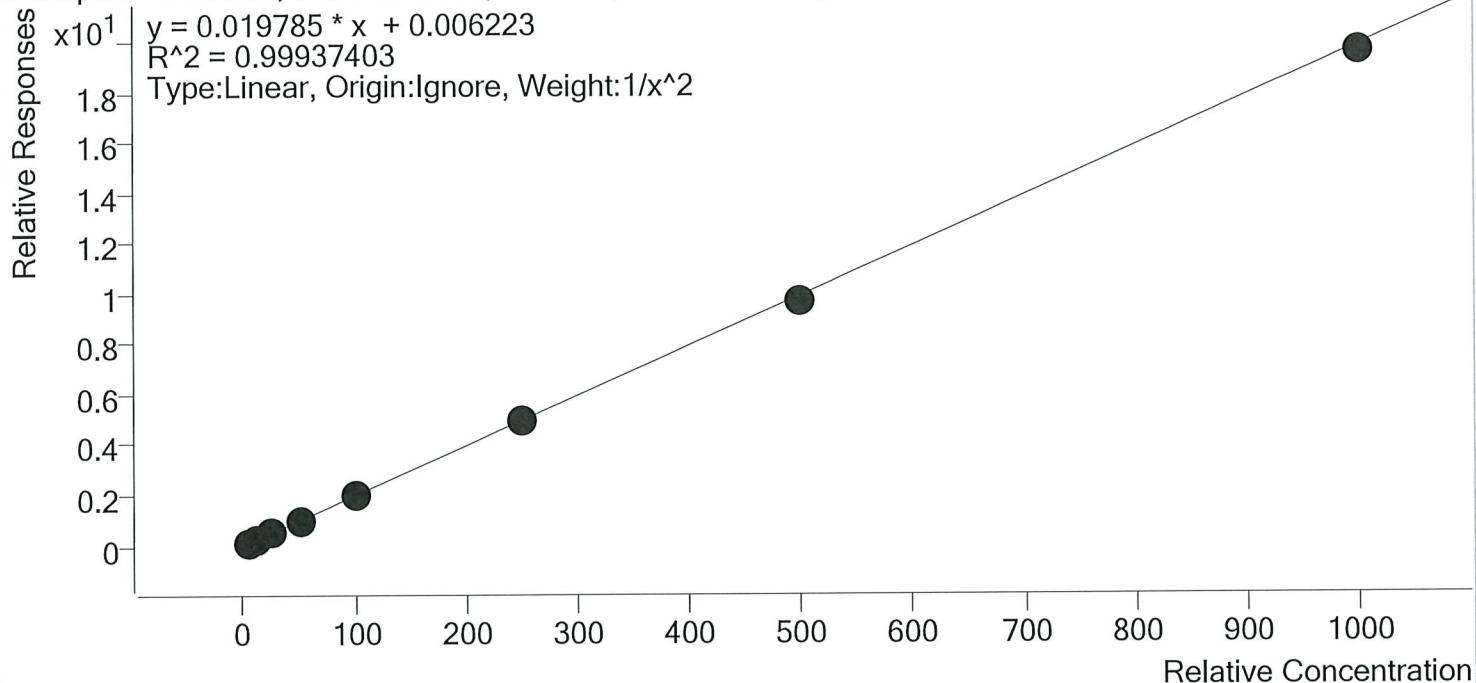
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
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	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	487.5	97.5
p1 Cal 8-1000ng	8	✓	1000.0	987.4	98.7

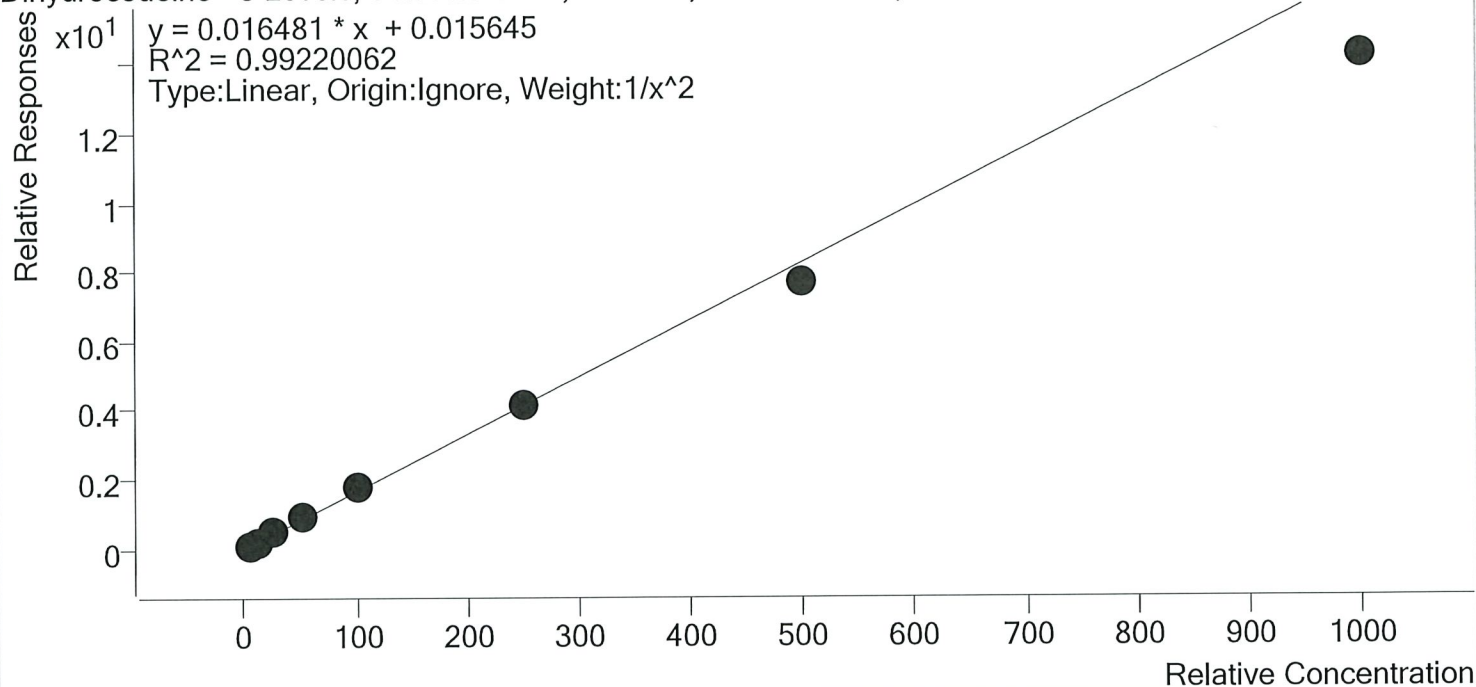
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.4
p1 Cal 4-50ng	4	✓	50.0	53.9	107.7
p1 Cal 5-100ng	5	✓	100.0	106.3	106.3
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	463.8	92.8
p1 Cal 8-1000ng	8	✓	1000.0	862.5	86.2

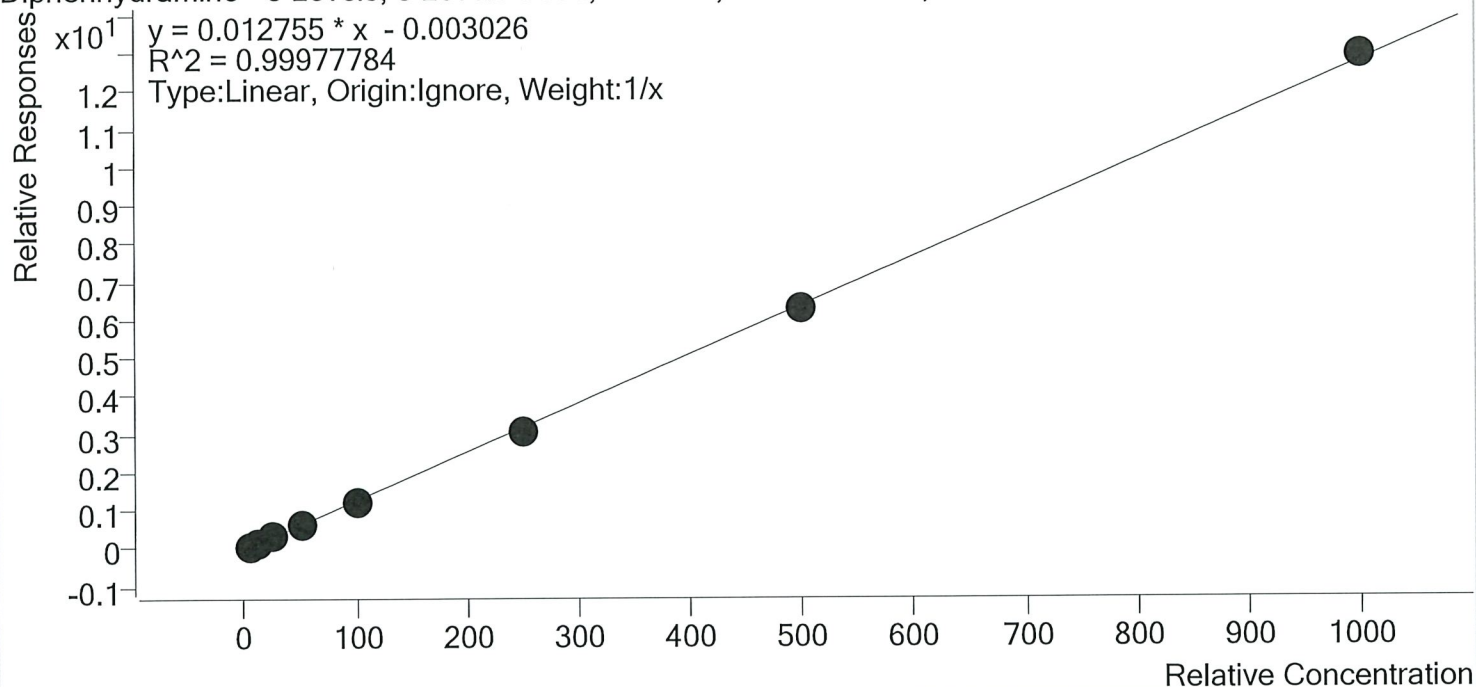
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
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	5.2	104.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	243.8	97.5
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1011.9	101.2

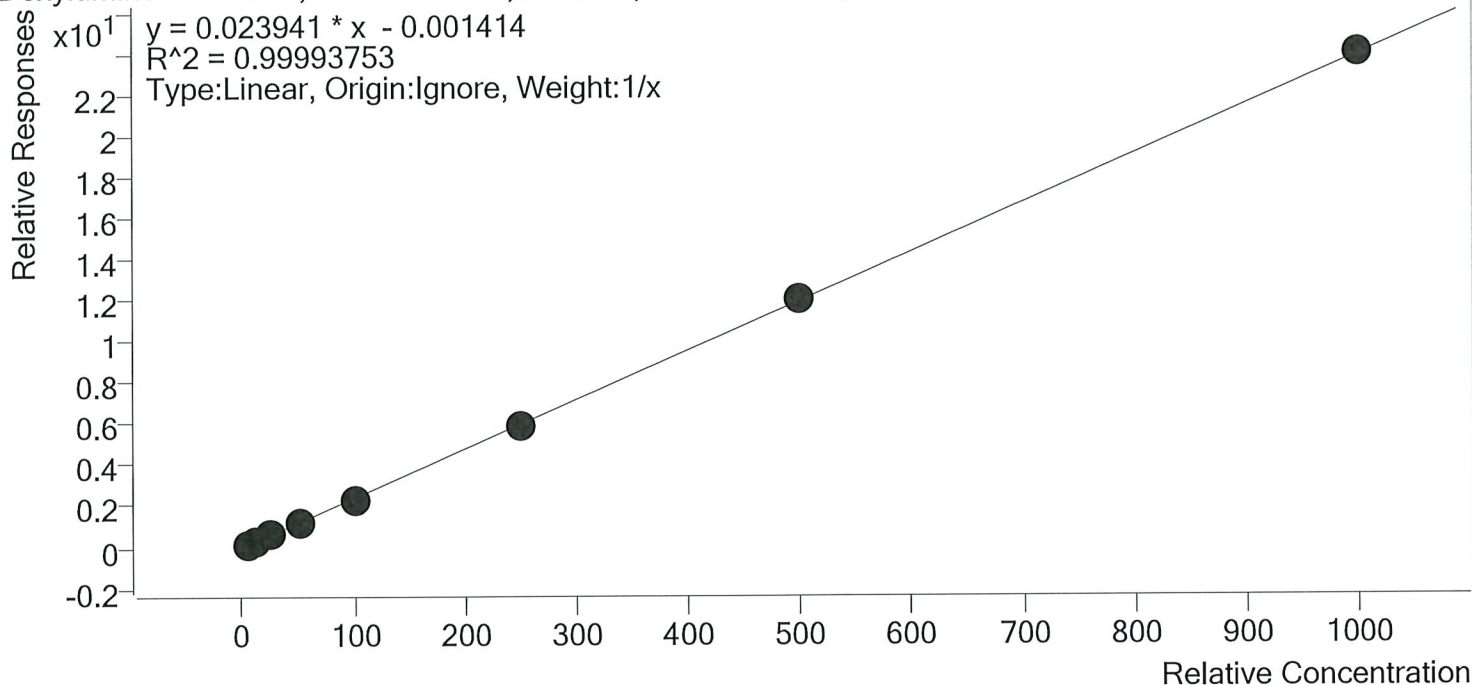
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AM #28 Multi-Drug Quant. Calibration Curve Report

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TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Doxylamine Internal Standard Doxylamine-D5

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



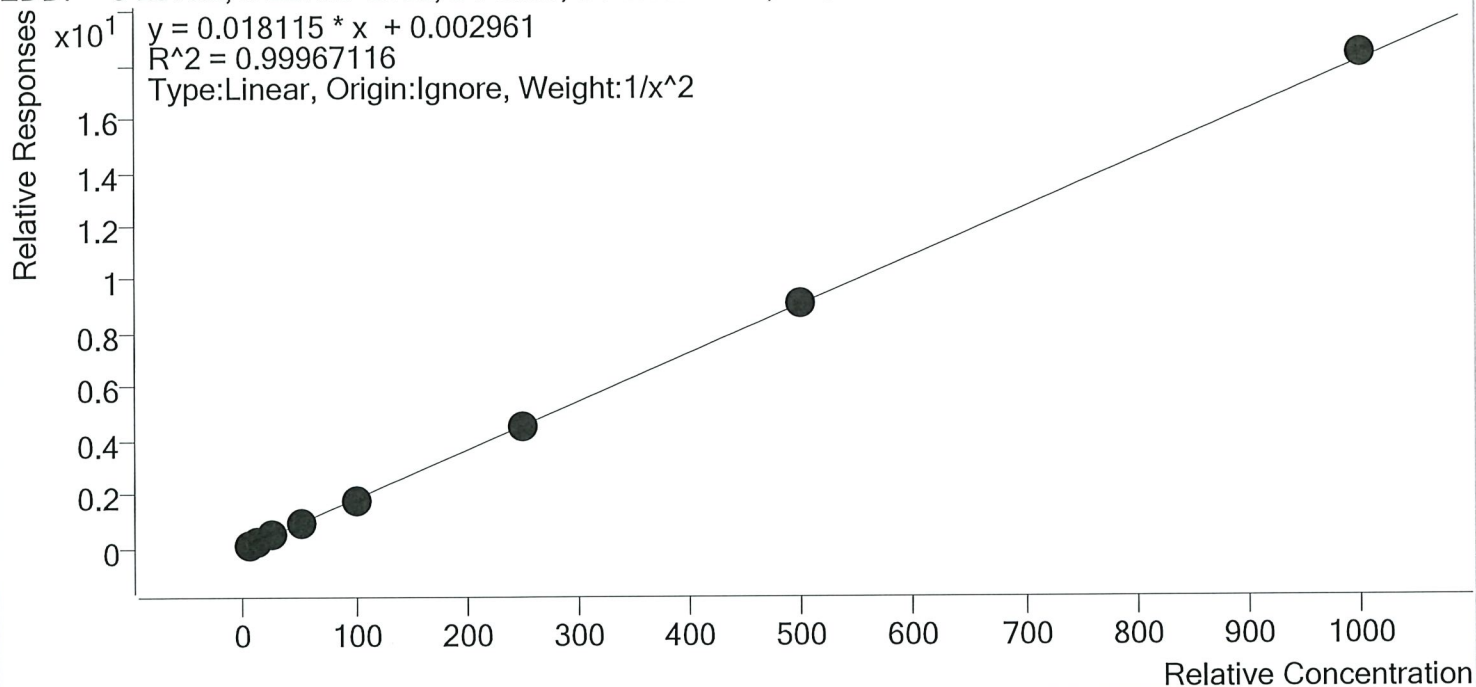
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	247.1	98.9
p1 Cal 7-500ng	7	✓	500.0	501.3	100.3
p1 Cal 8-1000ng	8	✓	1000.0	1003.5	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
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	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	247.5	99.0
p1 Cal 7-500ng	7	✓	500.0	505.1	101.0
p1 Cal 8-1000ng	8	✓	1000.0	1014.0	101.4

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

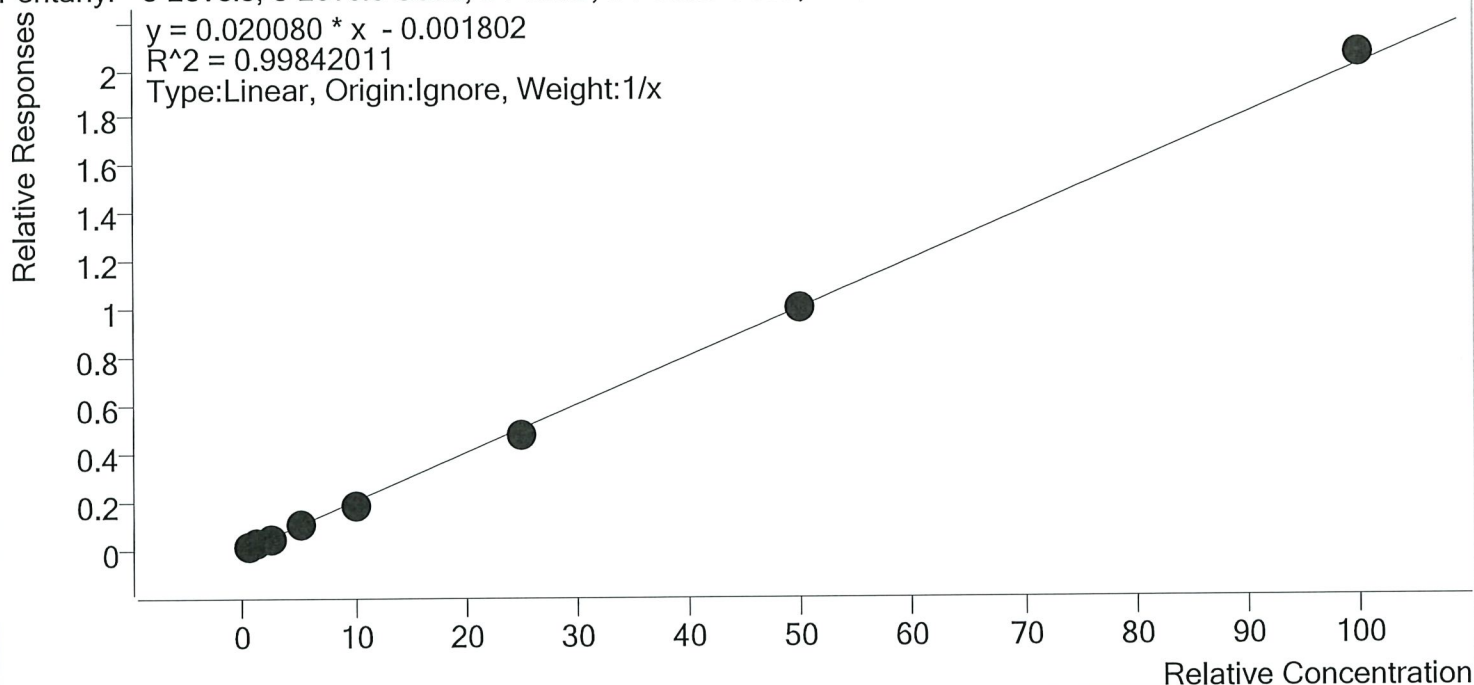
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Fentanyl **Internal Standard** Fentanyl-D5

Fentanyl - 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	0.6	126.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.3
p1 Cal 3 -25ng	3	✓	2.5	2.2	88.5
p1 Cal 4-50ng	4	✓	5.0	4.9	97.8
p1 Cal 5-100ng	5	✓	10.0	9.0	90.5
p1 Cal 6-250ng	6	✓	25.0	23.7	94.9
p1 Cal 7-500ng	7	✓	50.0	50.2	100.4
p1 Cal 8-1000ng	8	✓	100.0	102.3	102.3

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AM #28 Multi-Drug Quant. Calibration Curve Report

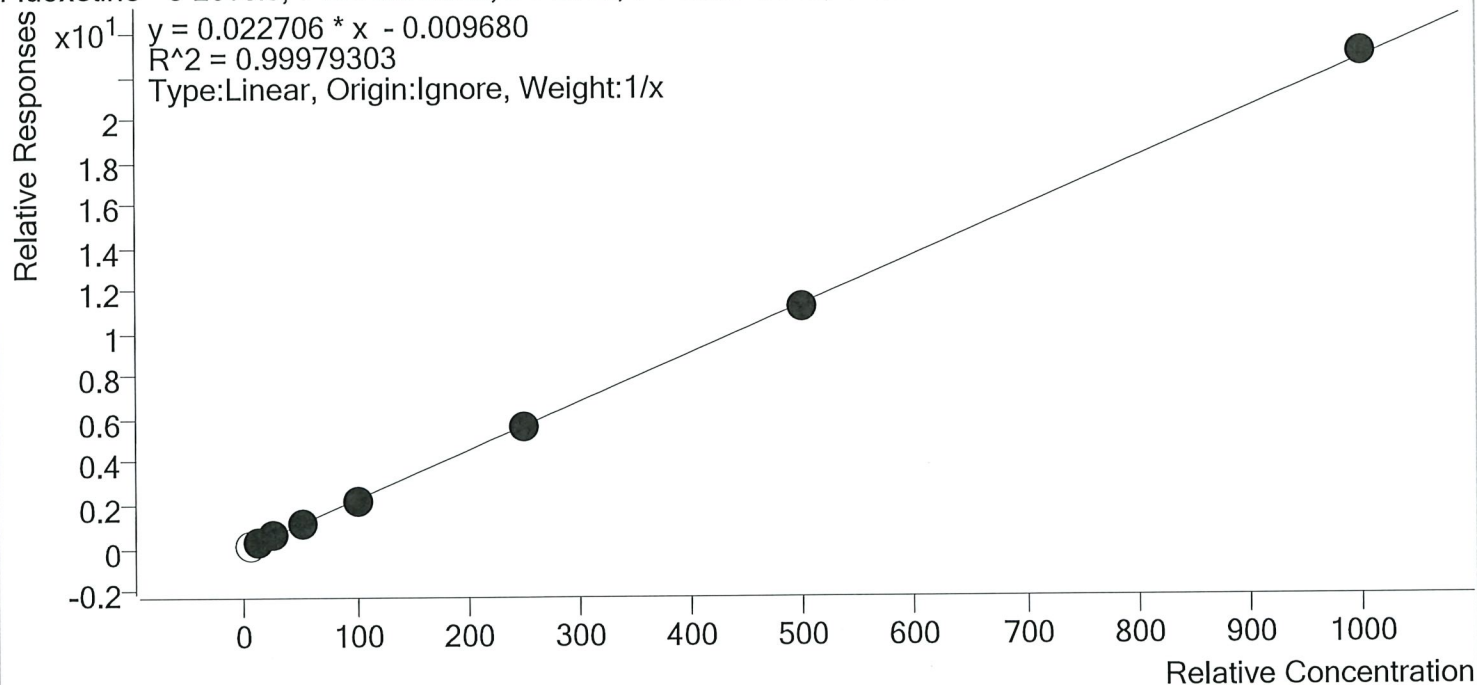
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	5.6	111.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	49.9	99.9
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	245.1	98.0
p1 Cal 7-500ng	7	✓	500.0	494.8	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1011.7	101.2

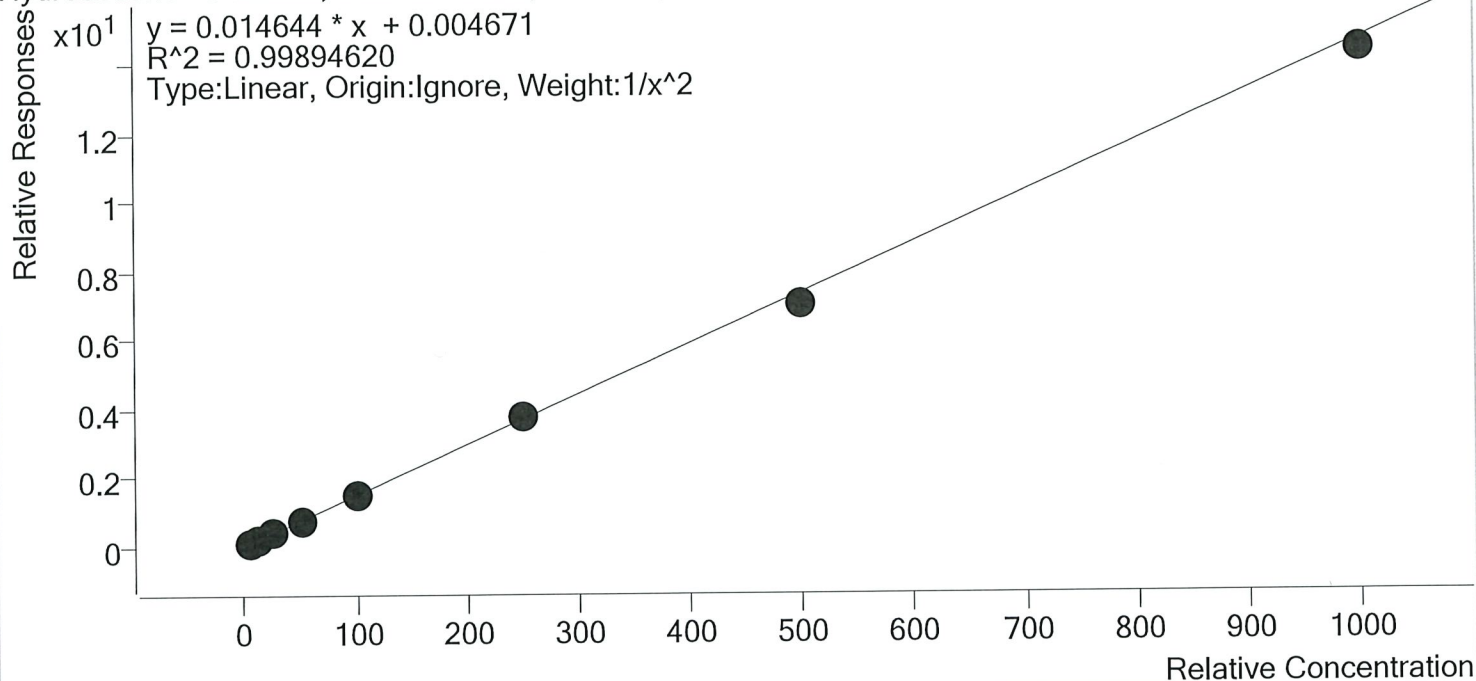
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
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	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.4
p1 Cal 4-50ng	4	✓	50.0	50.6	101.3
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	253.9	101.6
p1 Cal 7-500ng	7	✓	500.0	473.5	94.7
p1 Cal 8-1000ng	8	✓	1000.0	978.4	97.8

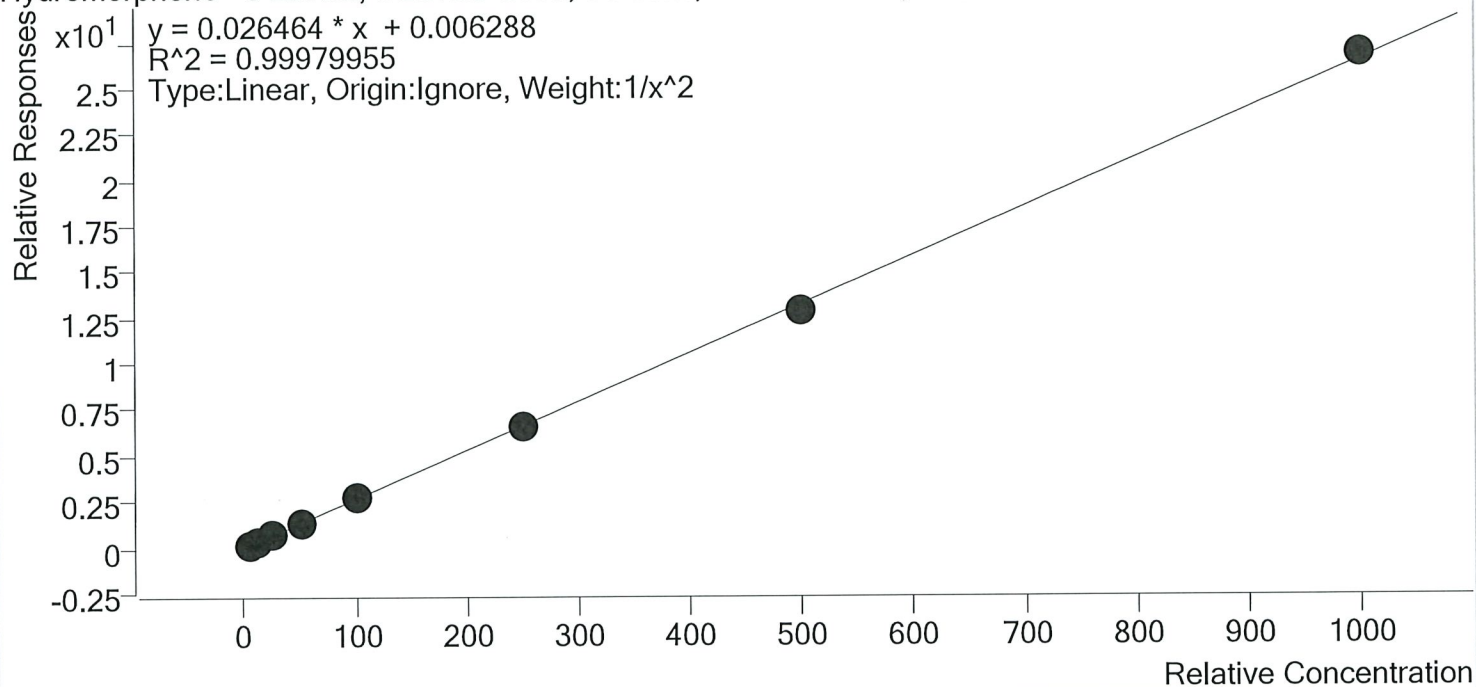
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
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	5.0	100.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	251.9	100.7
p1 Cal 7-500ng	7	✓	500.0	488.9	97.8
p1 Cal 8-1000ng	8	✓	1000.0	1012.7	101.3

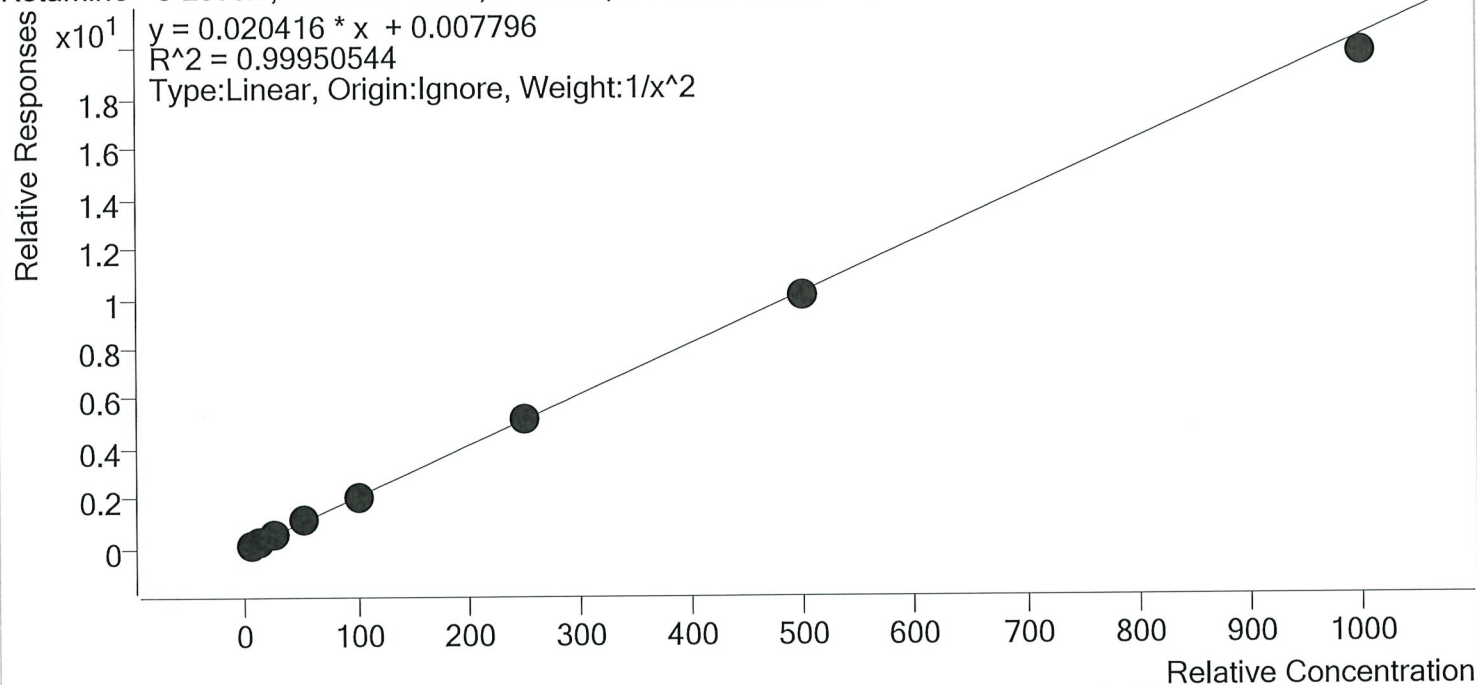
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
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	5.0	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	493.8	98.8
p1 Cal 8-1000ng	8	✓	1000.0	966.7	96.7

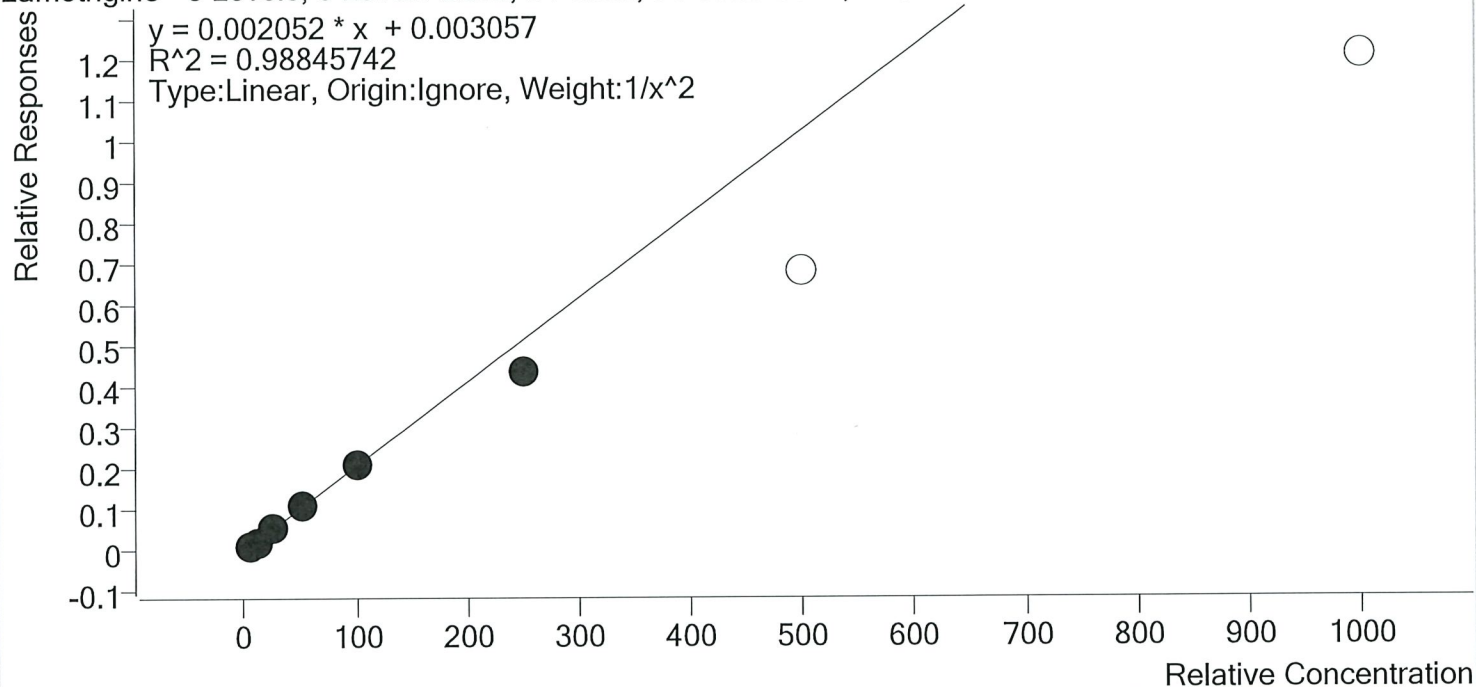
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

Lamotrigine - 8 Levels, 6 Levels Used, 8 Points, 6 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	10.5	104.8
p1 Cal 3 -25ng	3	✓	25.0	27.6	110.4
p1 Cal 4-50ng	4	✓	50.0	52.0	103.9
p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng	6	✓	250.0	212.9	85.2
p1 Cal 7-500ng	7	×	500.0	333.9	66.8
p1 Cal 8-1000ng	8	×	1000.0	588.8	58.9

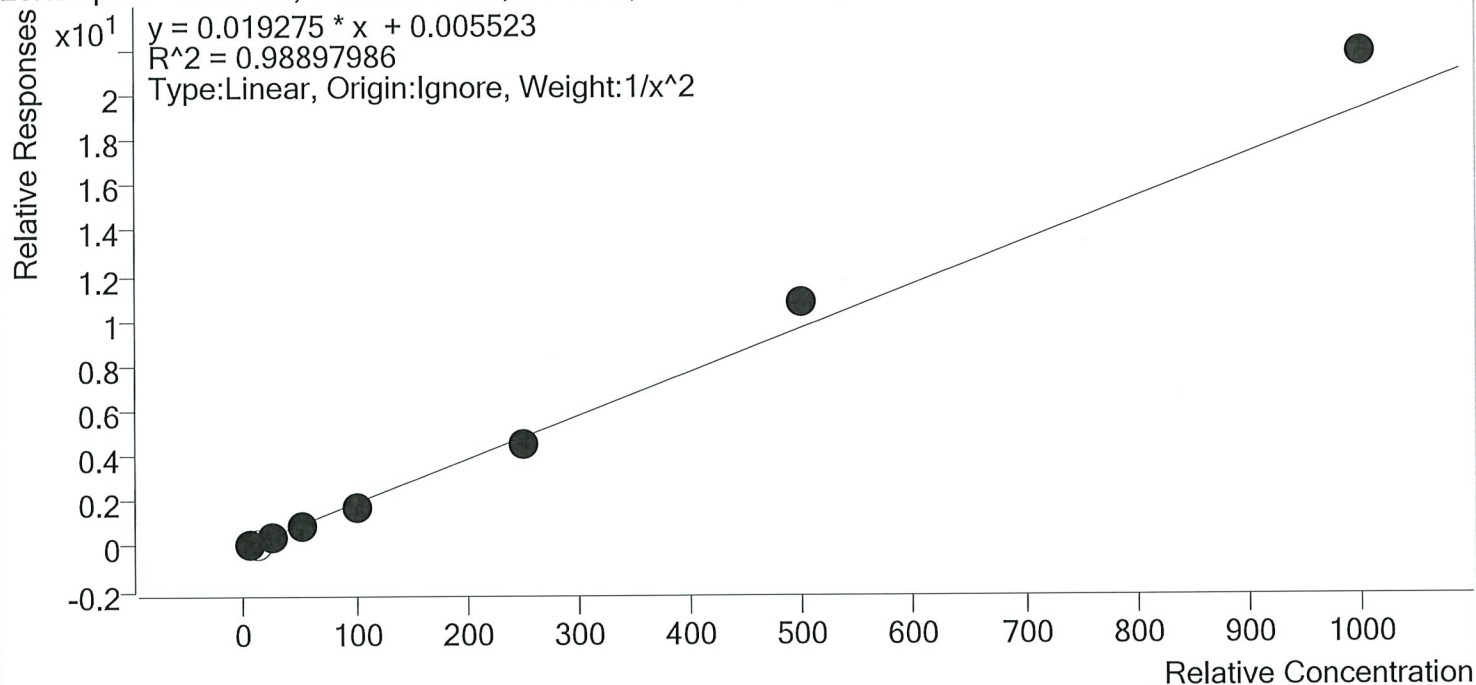
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.7
p1 Cal 2- 10ng	2	×	10.0	7.0	69.9
p1 Cal 3 -25ng	3	✓	25.0	22.3	89.2
p1 Cal 4-50ng	4	✓	50.0	49.5	99.0
p1 Cal 5-100ng	5	✓	100.0	90.0	90.0
p1 Cal 6-250ng	6	✓	250.0	235.0	94.0
p1 Cal 7-500ng	7	✓	500.0	560.4	112.1
p1 Cal 8-1000ng	8	✓	1000.0	1130.2	113.0

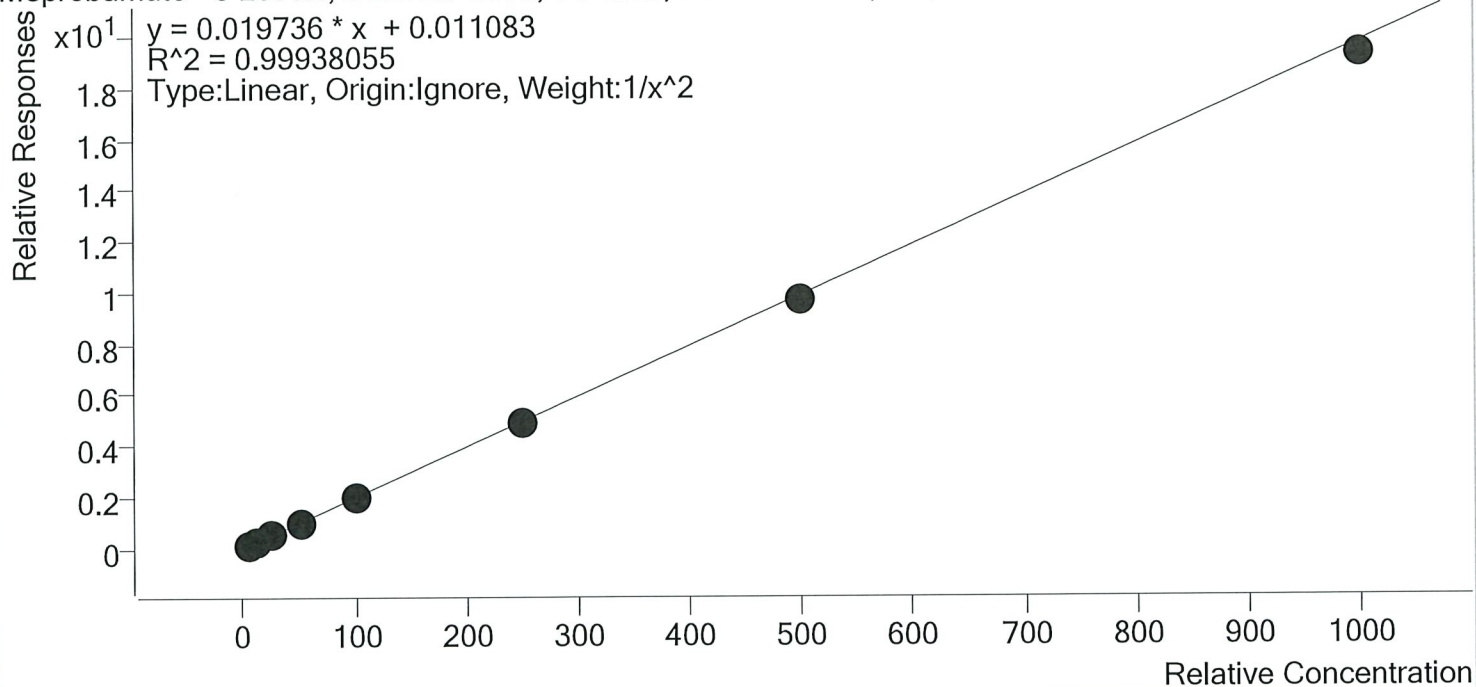
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

Meprobamate - 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	10.4	103.7
p1 Cal 3 -25ng	3	✓	25.0	24.7	99.0
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	490.7	98.1
p1 Cal 8-1000ng	8	✓	1000.0	976.2	97.6

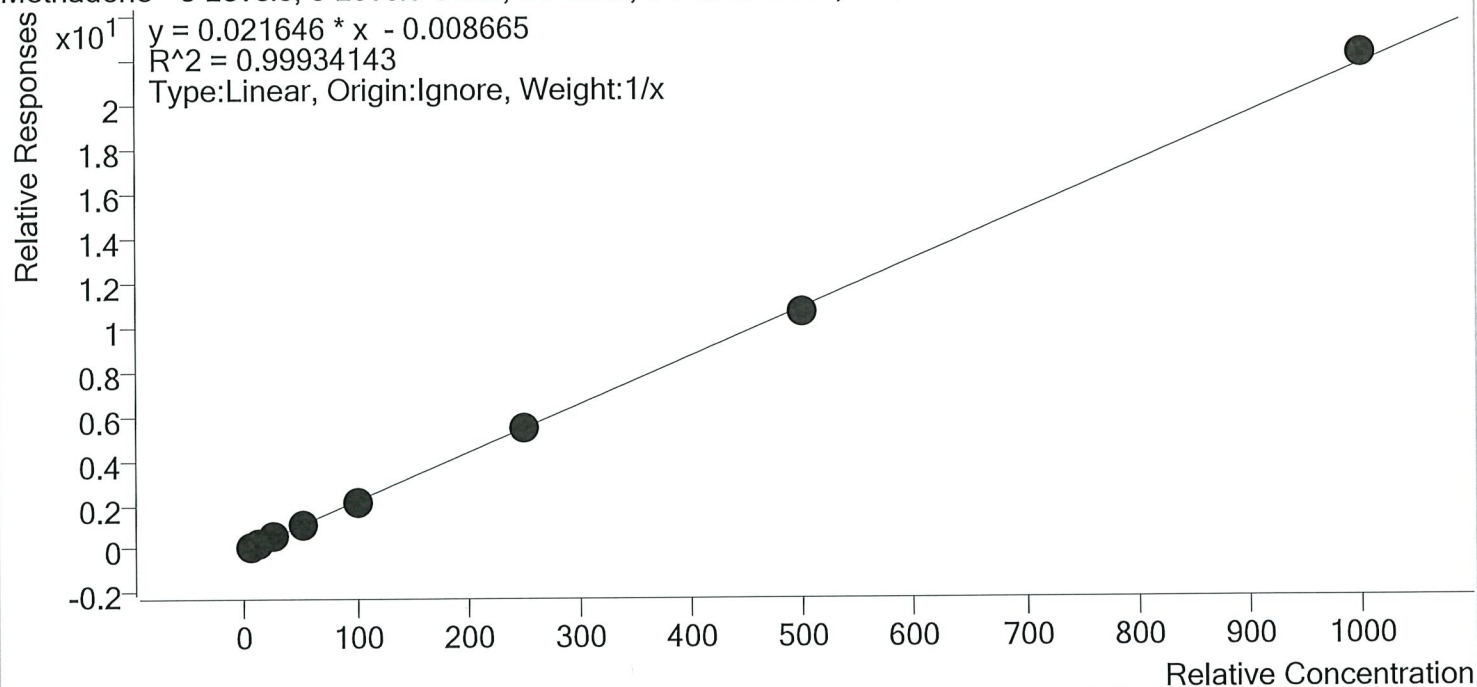
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
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	5.5	110.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.0
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	47.6	95.1
p1 Cal 5-100ng	5	✓	100.0	95.7	95.7
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	486.4	97.3
p1 Cal 8-1000ng	8	✓	1000.0	1020.6	102.1

§ TS



AM #28 Multi-Drug Quant. Calibration Curve Report

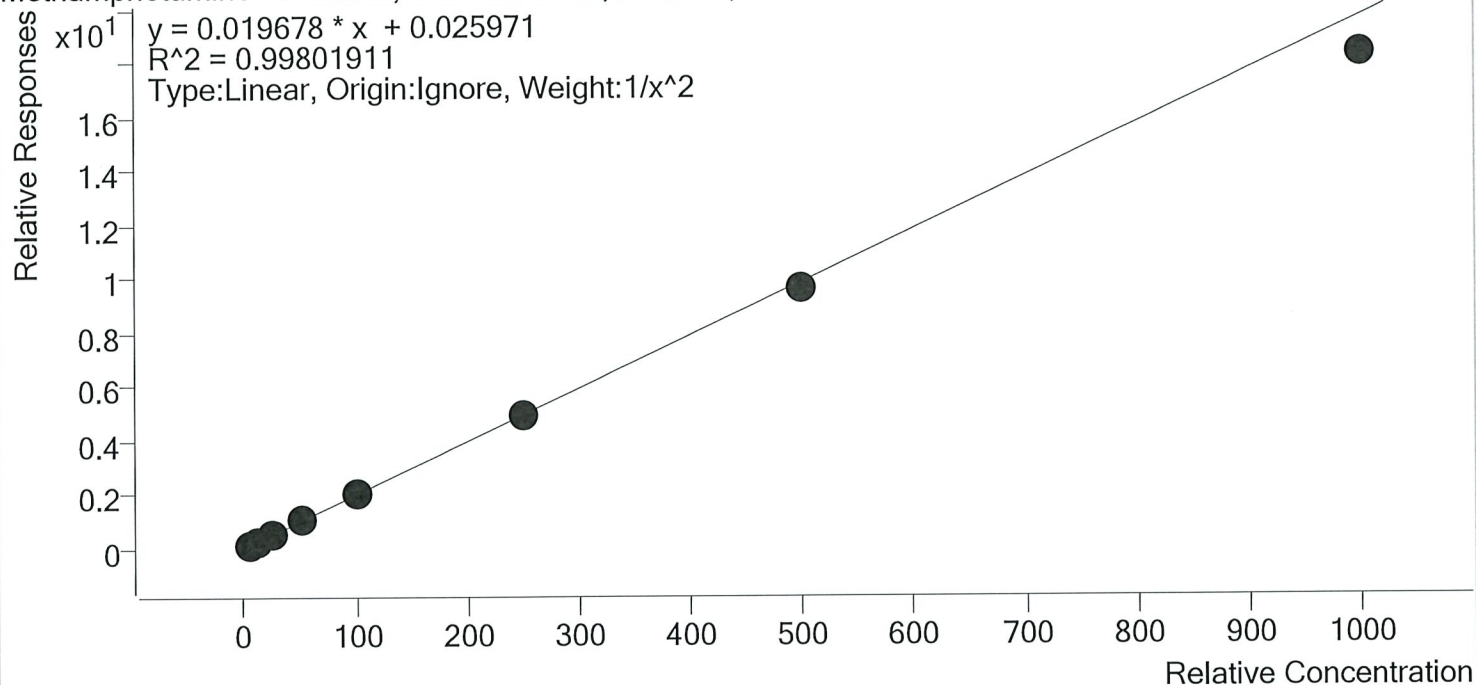
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

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	4.9	98.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.5
p1 Cal 4-50ng	4	✓	50.0	52.2	104.3
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	485.5	97.1
p1 Cal 8-1000ng	8	✓	1000.0	929.5	93.0

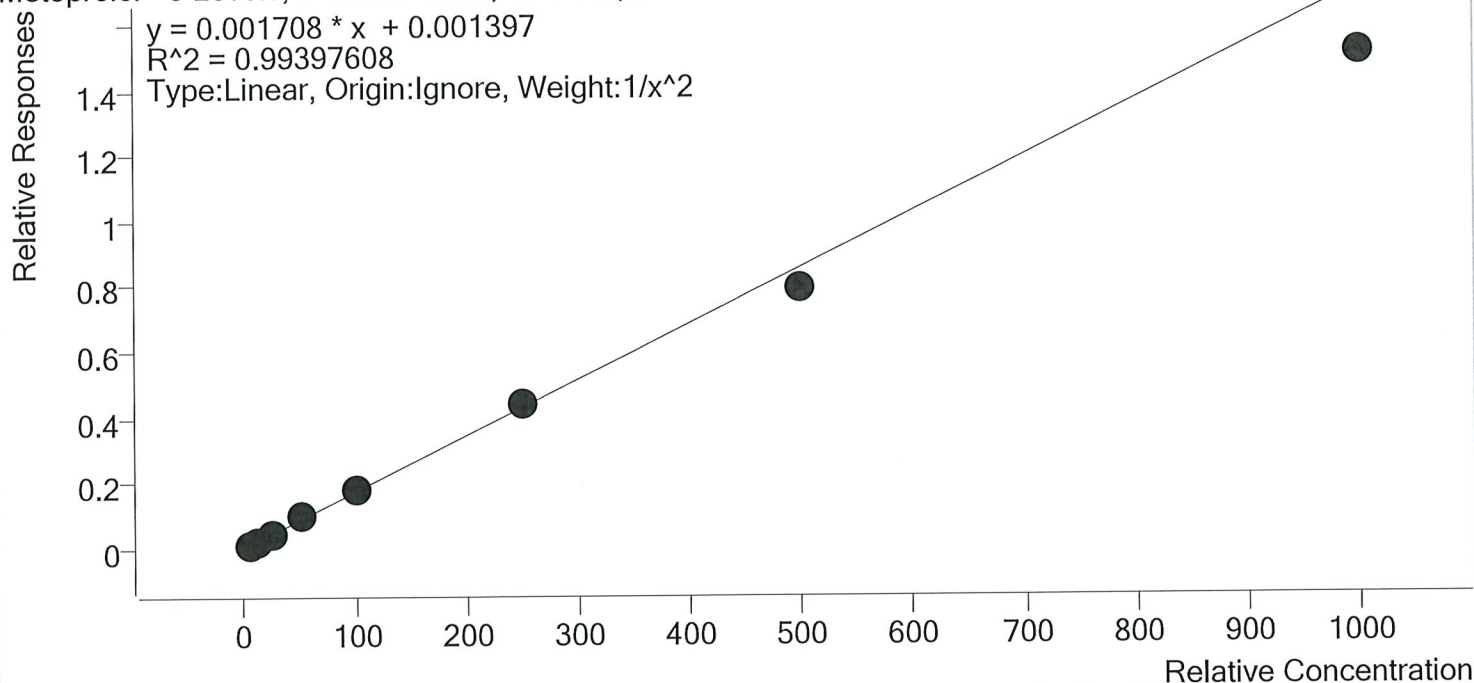
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.3
p1 Cal 4-50ng	4	✓	50.0	54.0	108.0
p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng	6	✓	250.0	255.7	102.3
p1 Cal 7-500ng	7	✓	500.0	465.7	93.1
p1 Cal 8-1000ng	8	✓	1000.0	882.0	88.2

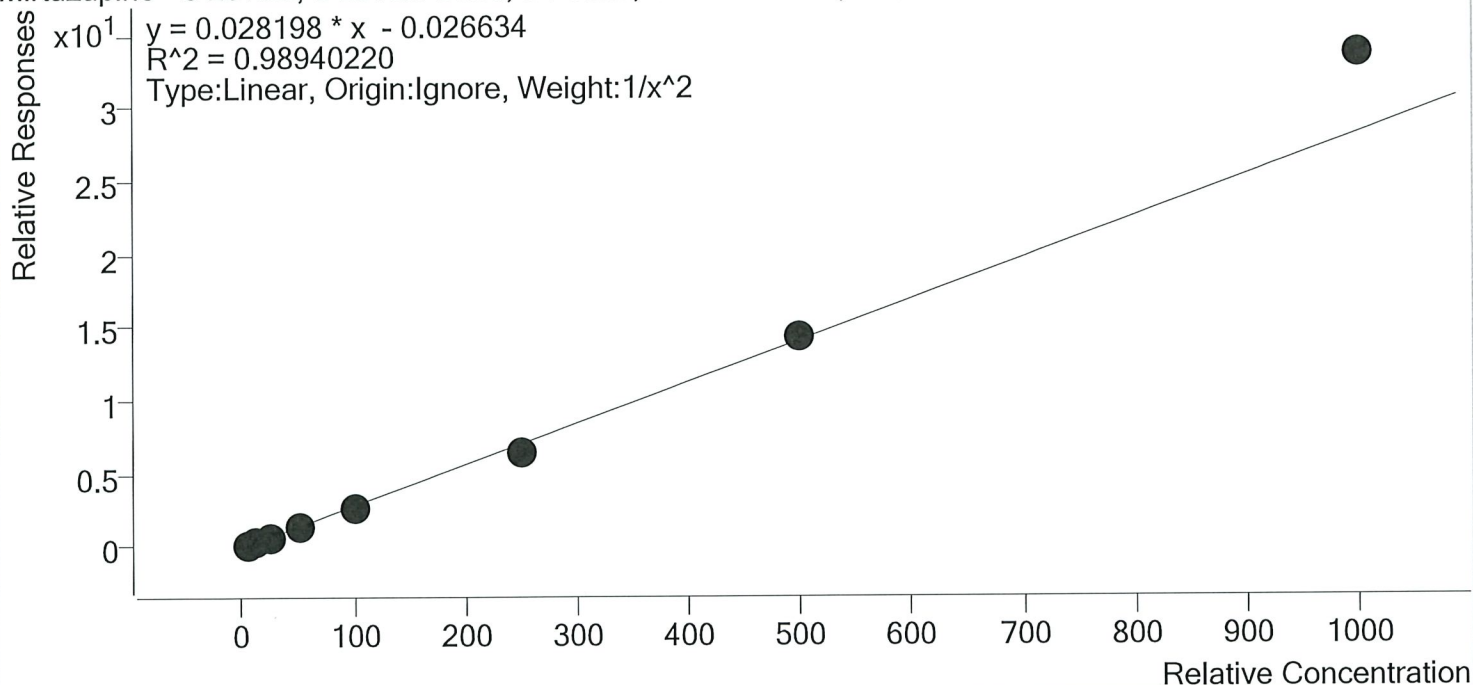
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AM #28 Multi-Drug Quant. Calibration Curve Report

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 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

Mirtazapine - 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	100.3
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3 -25ng	3	✓	25.0	23.0	91.9
p1 Cal 4-50ng	4	✓	50.0	48.2	96.3
p1 Cal 5-100ng	5	✓	100.0	93.1	93.1
p1 Cal 6-250ng	6	✓	250.0	233.3	93.3
p1 Cal 7-500ng	7	✓	500.0	508.2	101.6
p1 Cal 8-1000ng	8	✓	1000.0	1193.0	119.3

§ TS



AM #28 Multi-Drug Quant. Calibration Curve Report

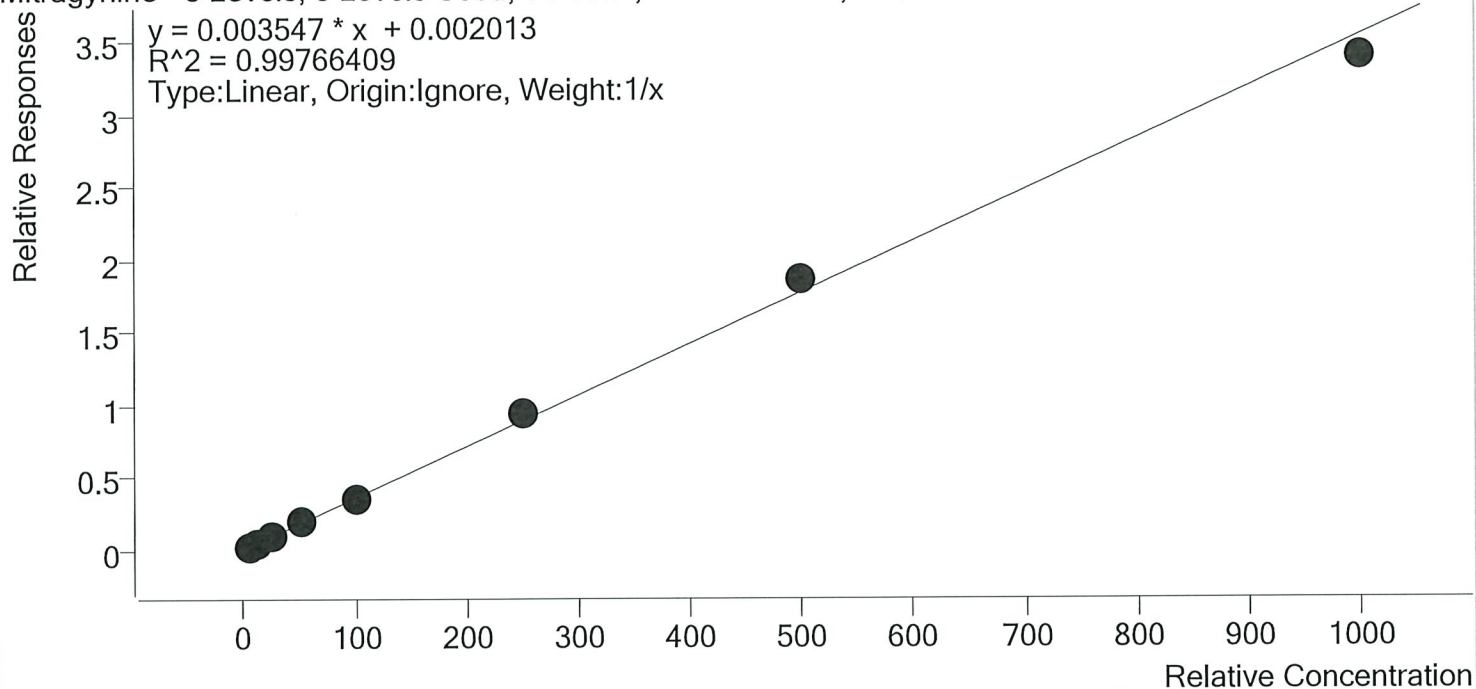
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Mitragynine **Internal Standard** Methadone-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.8	101.7
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	265.8	106.3
p1 Cal 7-500ng	7	✓	500.0	526.4	105.3
p1 Cal 8-1000ng	8	✓	1000.0	958.9	95.9

\$ TS



AM #28 Multi-Drug Quant. Calibration Curve Report

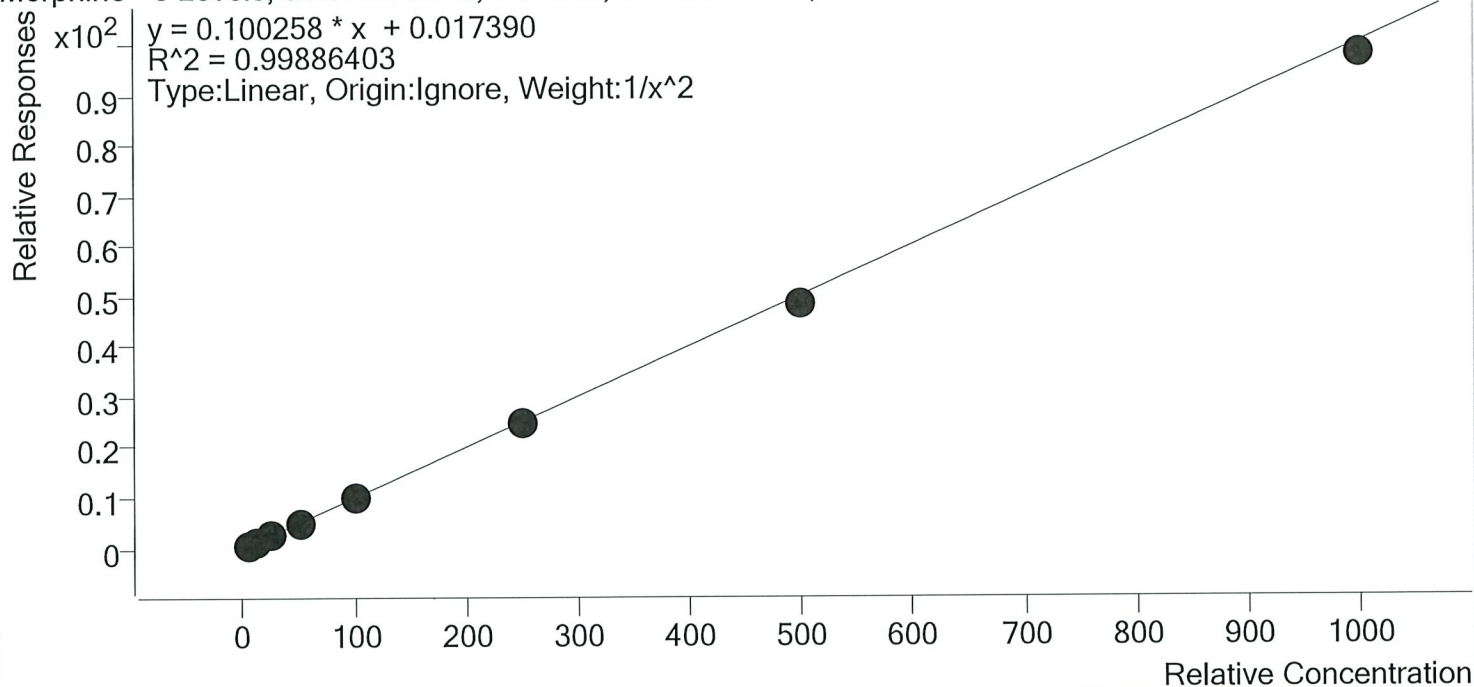
Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Morphine **Internal Standard** Morphine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.2
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.6
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng	6	✓	250.0	247.1	98.9
p1 Cal 7-500ng	7	✓	500.0	481.8	96.4
p1 Cal 8-1000ng	8	✓	1000.0	975.8	97.6

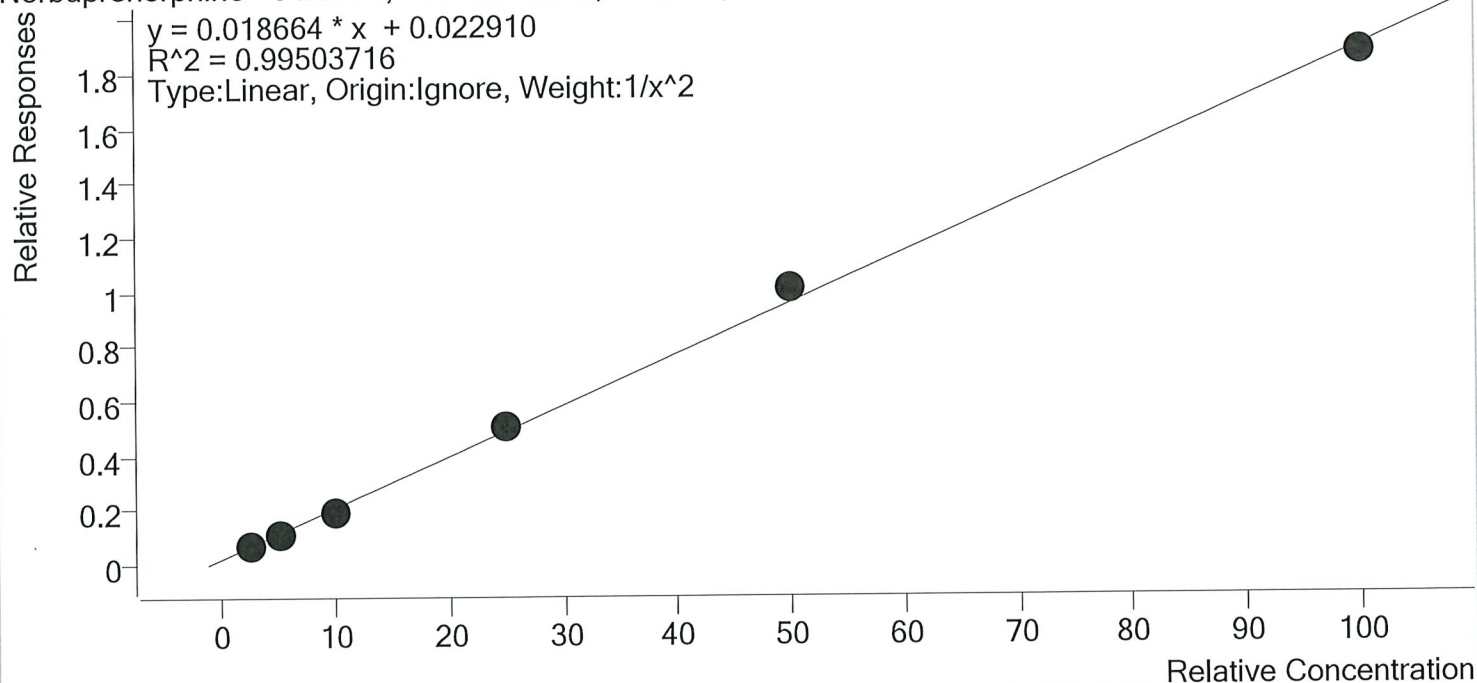
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 3 -25ng	3	✓	2.5	2.6	103.3
p1 Cal 4-50ng	4	✓	5.0	4.8	96.3
p1 Cal 5-100ng	5	✓	10.0	9.1	91.1
p1 Cal 6-250ng	6	✓	25.0	26.2	104.8
p1 Cal 7-500ng	7	✓	50.0	52.8	105.6
p1 Cal 8-1000ng	8	✓	100.0	98.8	98.8

*Compound not evaluated. - TS

§ 15



AM #28 Multi-Drug Quant. Calibration Curve Report

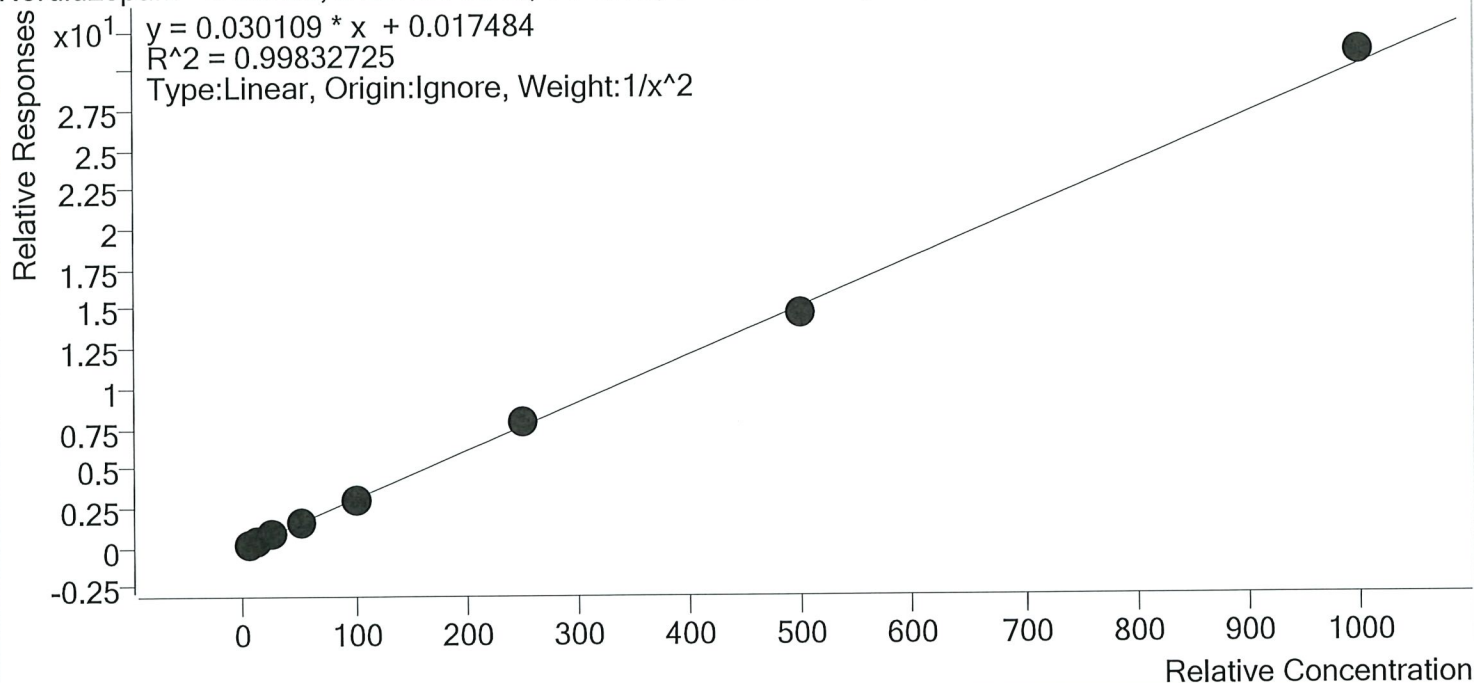
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Nordiazepam Internal Standard Nordiazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.5
p1 Cal 3 -25ng	3	✓	25.0	23.7	94.9
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	260.9	104.4
p1 Cal 7-500ng	7	✓	500.0	485.6	97.1
p1 Cal 8-1000ng	8	✓	1000.0	1028.8	102.9

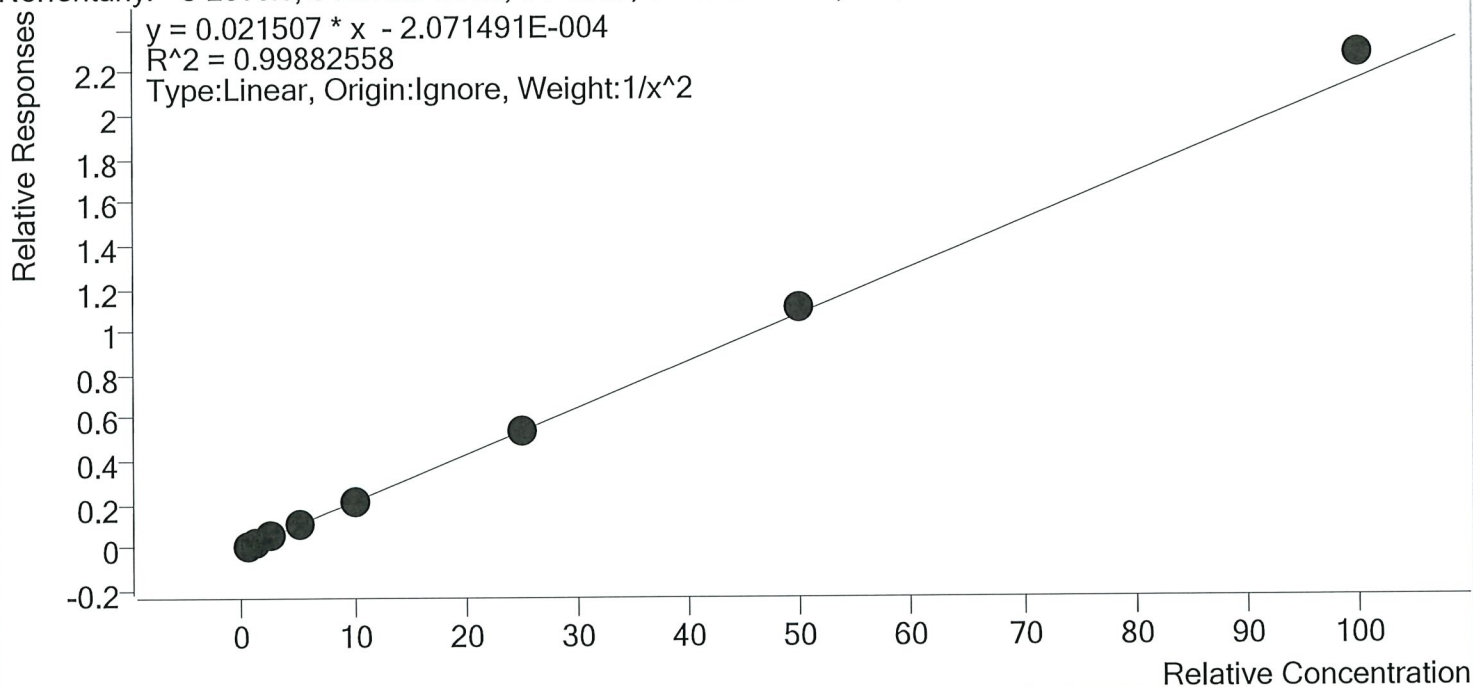
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.3
p1 Cal 3 -25ng	3	✓	2.5	2.5	98.7
p1 Cal 4-50ng	4	✓	5.0	4.9	98.9
p1 Cal 5-100ng	5	✓	10.0	9.7	96.7
p1 Cal 6-250ng	6	✓	25.0	24.7	98.9
p1 Cal 7-500ng	7	✓	50.0	51.1	102.2
p1 Cal 8-1000ng	8	✓	100.0	105.6	105.6

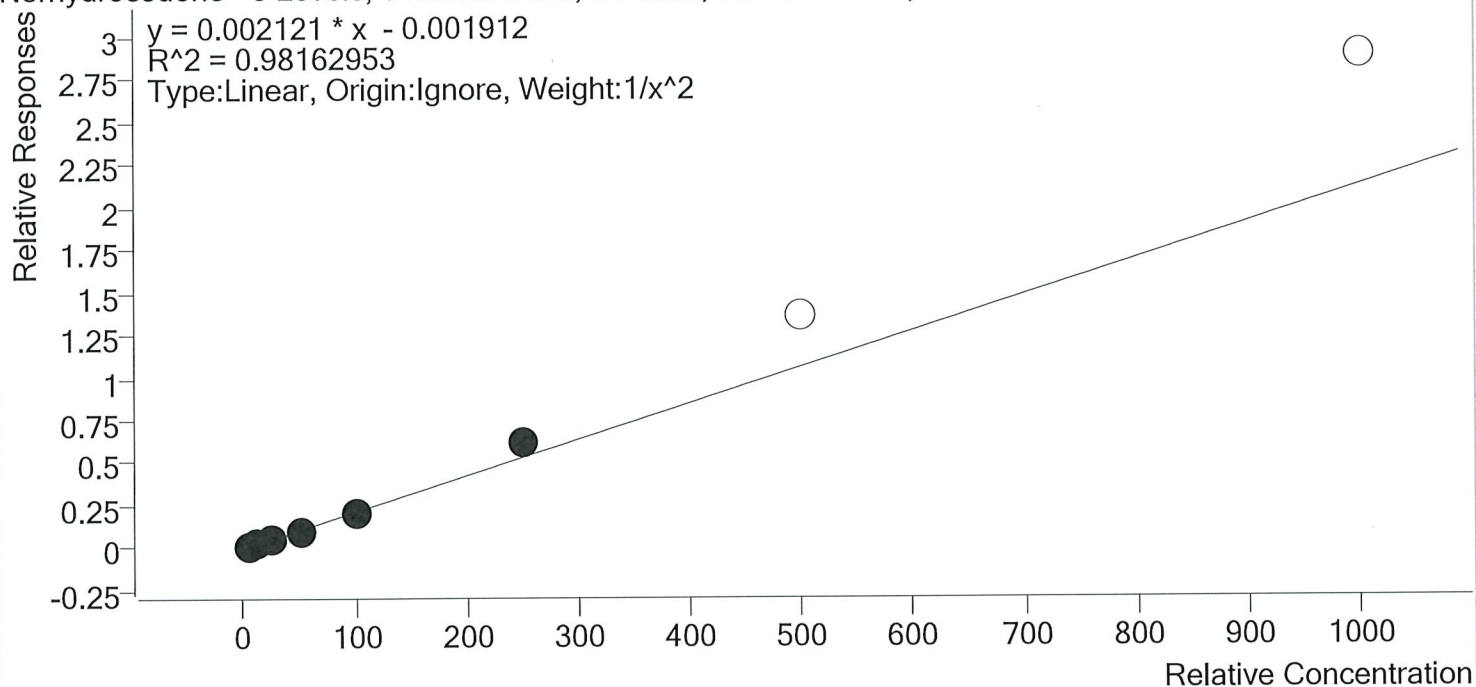
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.8
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.9
p1 Cal 3 -25ng	3	✓	25.0	20.9	83.6
p1 Cal 4-50ng	4	✓	50.0	48.4	96.9
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	294.0	117.6
p1 Cal 7-500ng	7	×	500.0	642.0	128.4
p1 Cal 8-1000ng	8	×	1000.0	1362.0	136.2

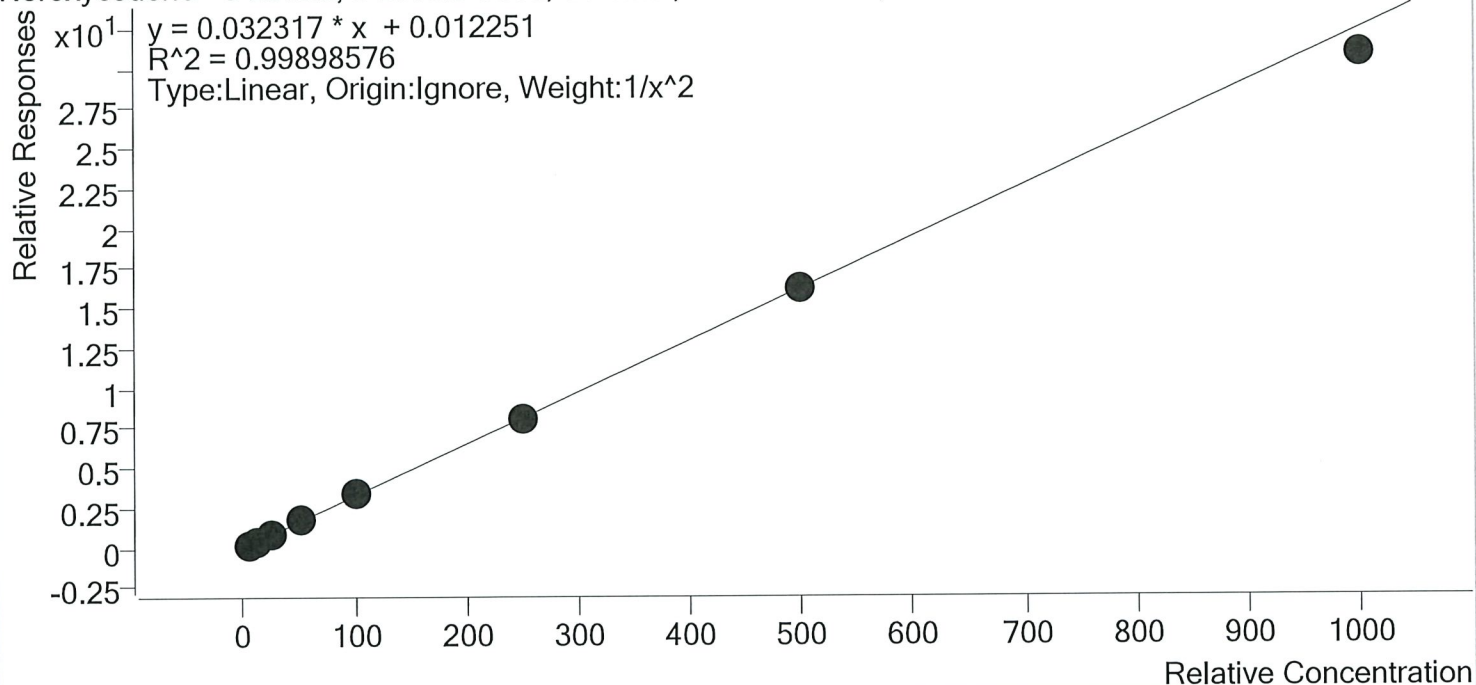
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	51.7	103.5
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
p1 Cal 7-500ng	7	✓	500.0	497.9	99.6
p1 Cal 8-1000ng	8	✓	1000.0	952.1	95.2

§ TS



AM #28 Multi-Drug Quant. Calibration Curve Report

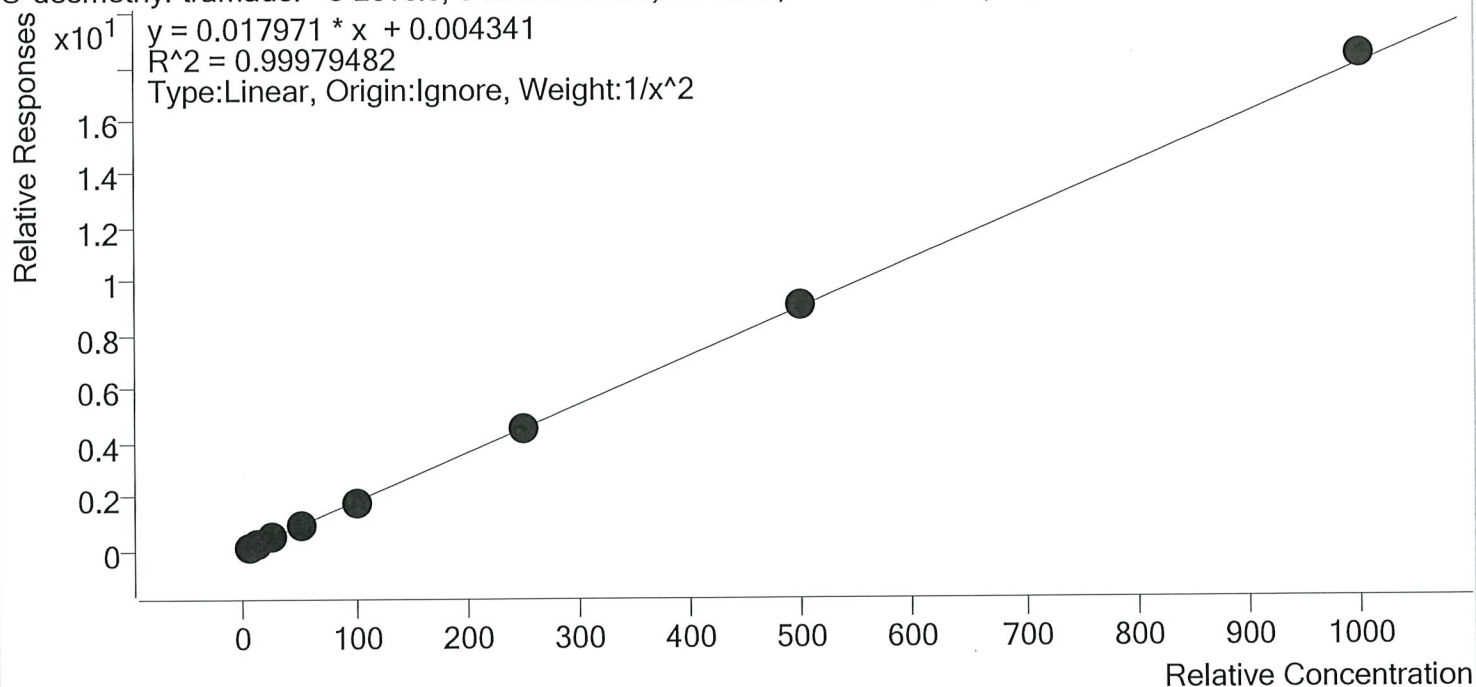
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	505.3	101.1
p1 Cal 8-1000ng	8	✓	1000.0	1019.4	101.9

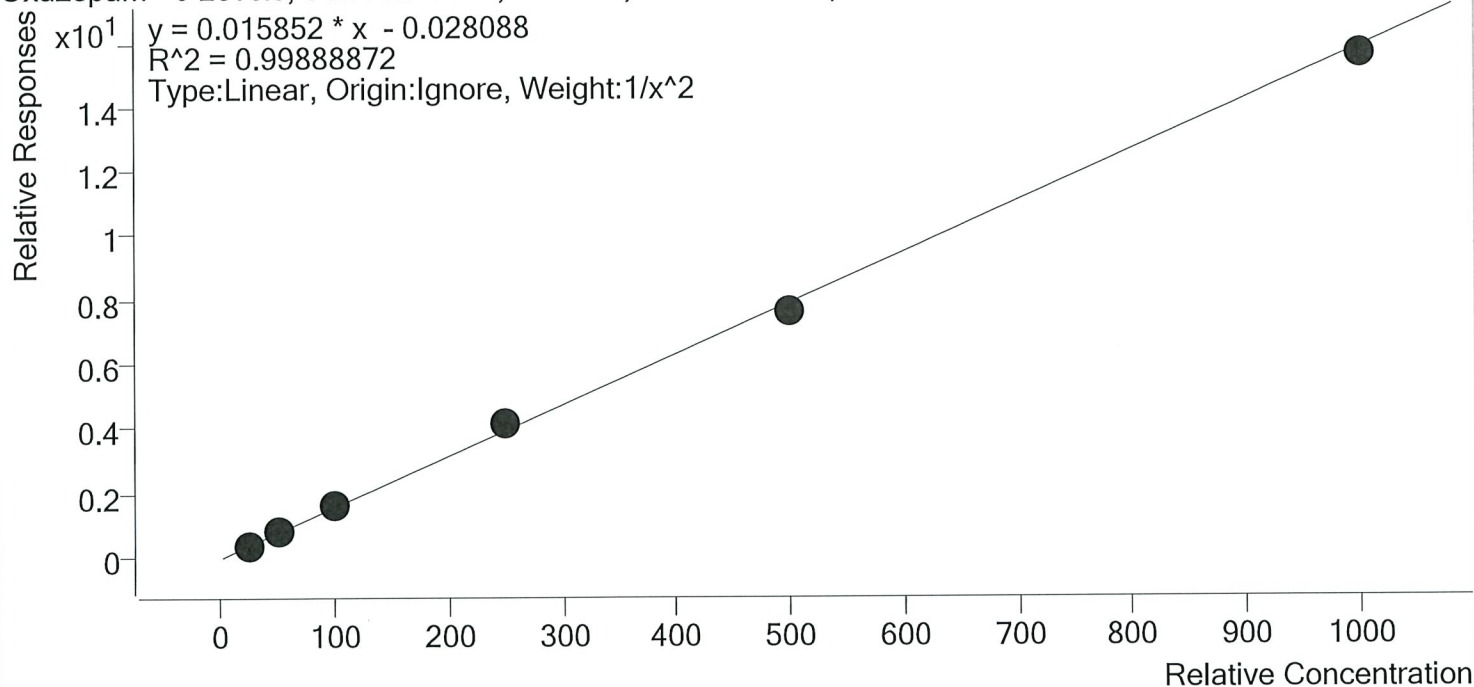
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	261.2	104.5
p1 Cal 7-500ng	7	✓	500.0	482.5	96.5
p1 Cal 8-1000ng	8	✓	1000.0	984.9	98.5

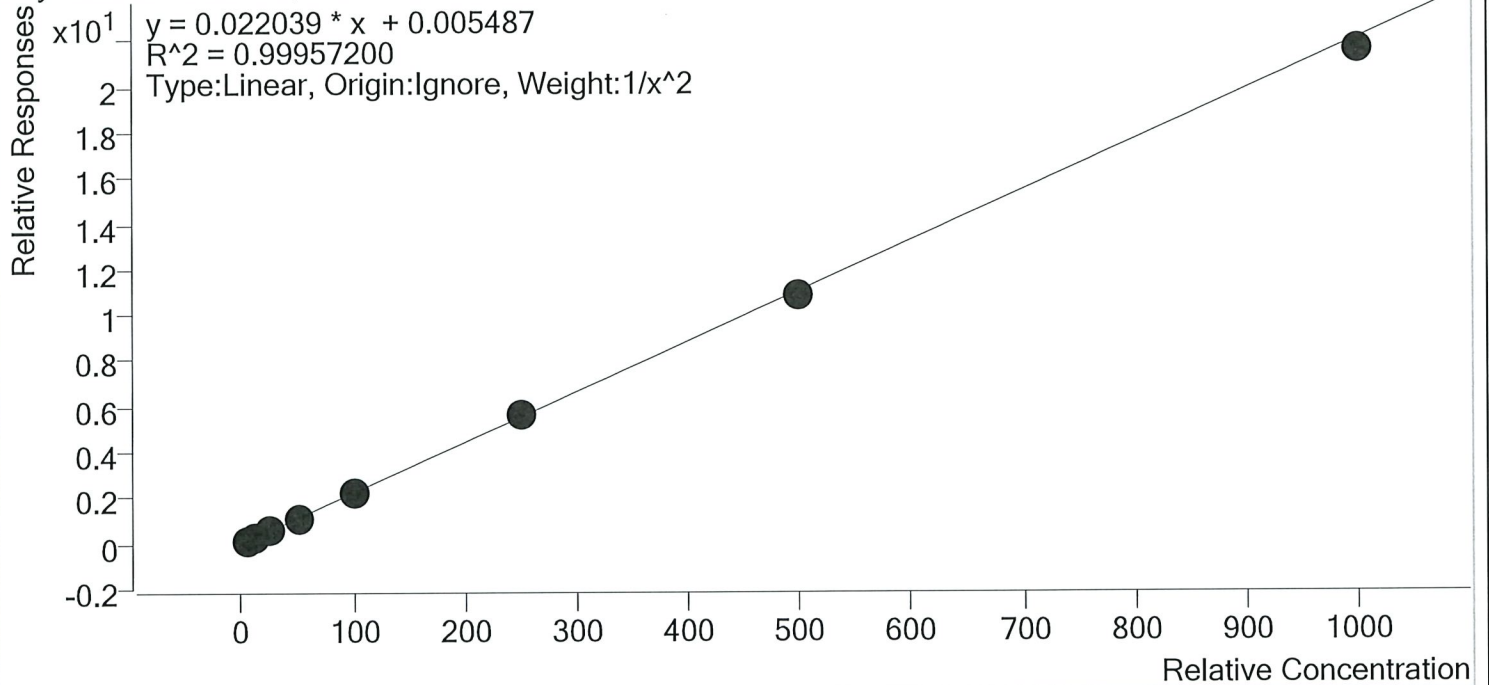
*Compound evaluated qualitatively only.



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	51.5	102.9
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	255.7	102.3
p1 Cal 7-500ng	7	✓	500.0	492.7	98.5
p1 Cal 8-1000ng	8	✓	1000.0	977.1	97.7

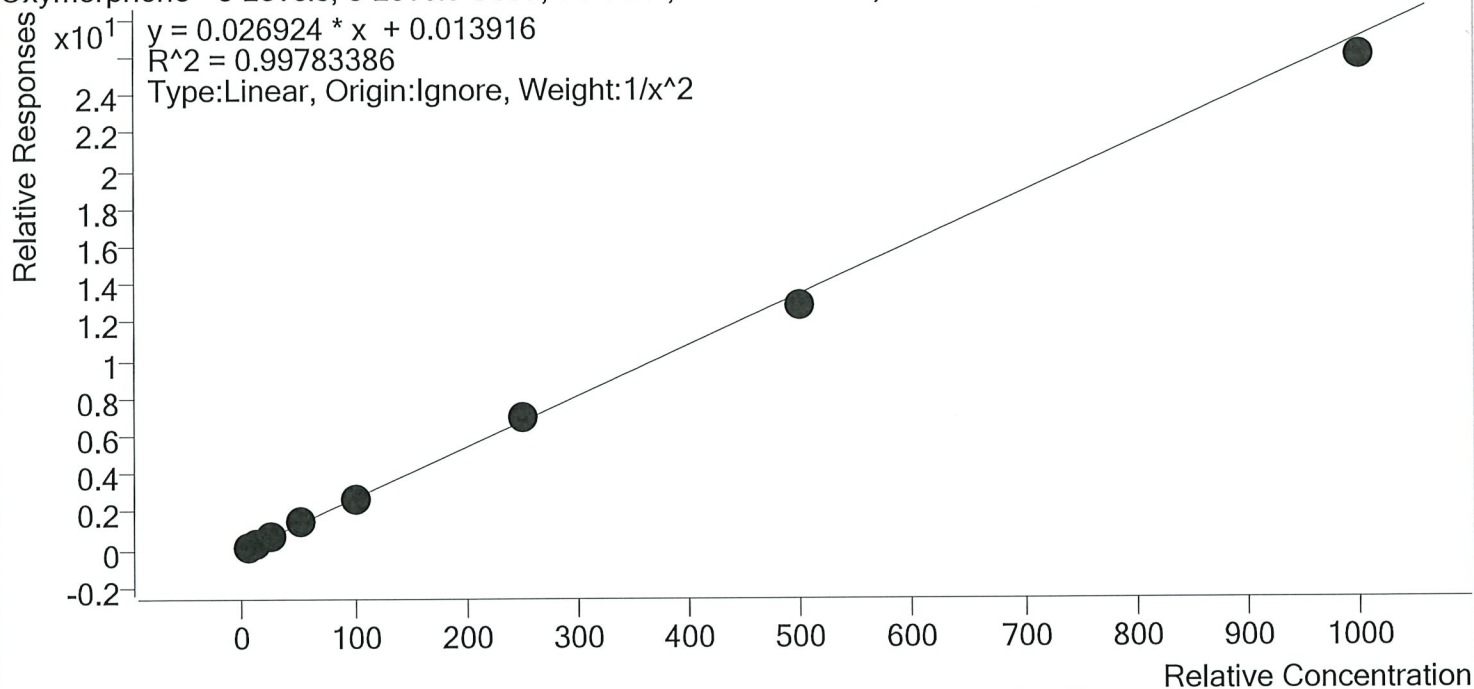
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklst 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	257.6	103.1
p1 Cal 7-500ng	7	✓	500.0	476.3	95.3
p1 Cal 8-1000ng	8	✓	1000.0	963.9	96.4

\$ TS



AM #28 Multi-Drug Quant. Calibration Curve Report

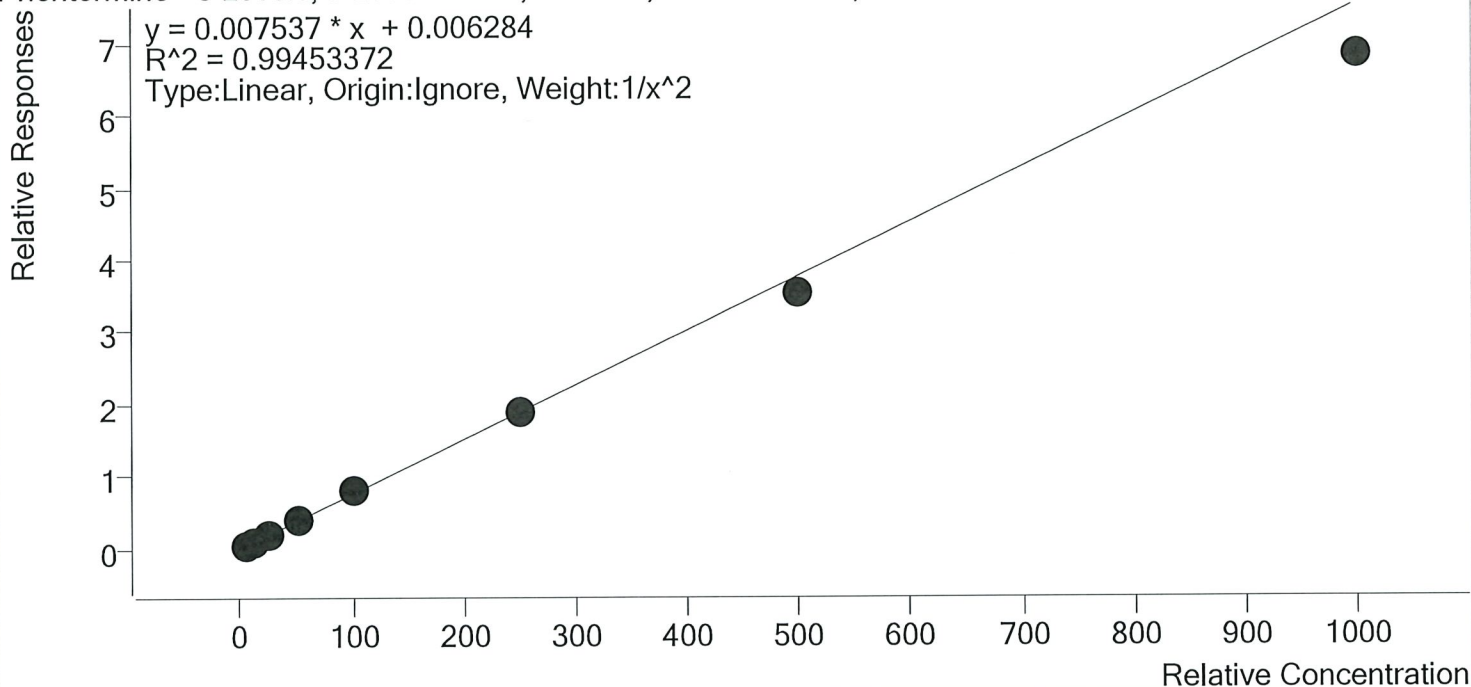
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Phentermine **Internal Standard** Phentermine-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.1
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.6
p1 Cal 4-50ng	4	✓	50.0	54.3	108.5
p1 Cal 5-100ng	5	✓	100.0	104.6	104.6
p1 Cal 6-250ng	6	✓	250.0	252.0	100.8
p1 Cal 7-500ng	7	✓	500.0	465.8	93.2
p1 Cal 8-1000ng	8	✓	1000.0	905.3	90.5

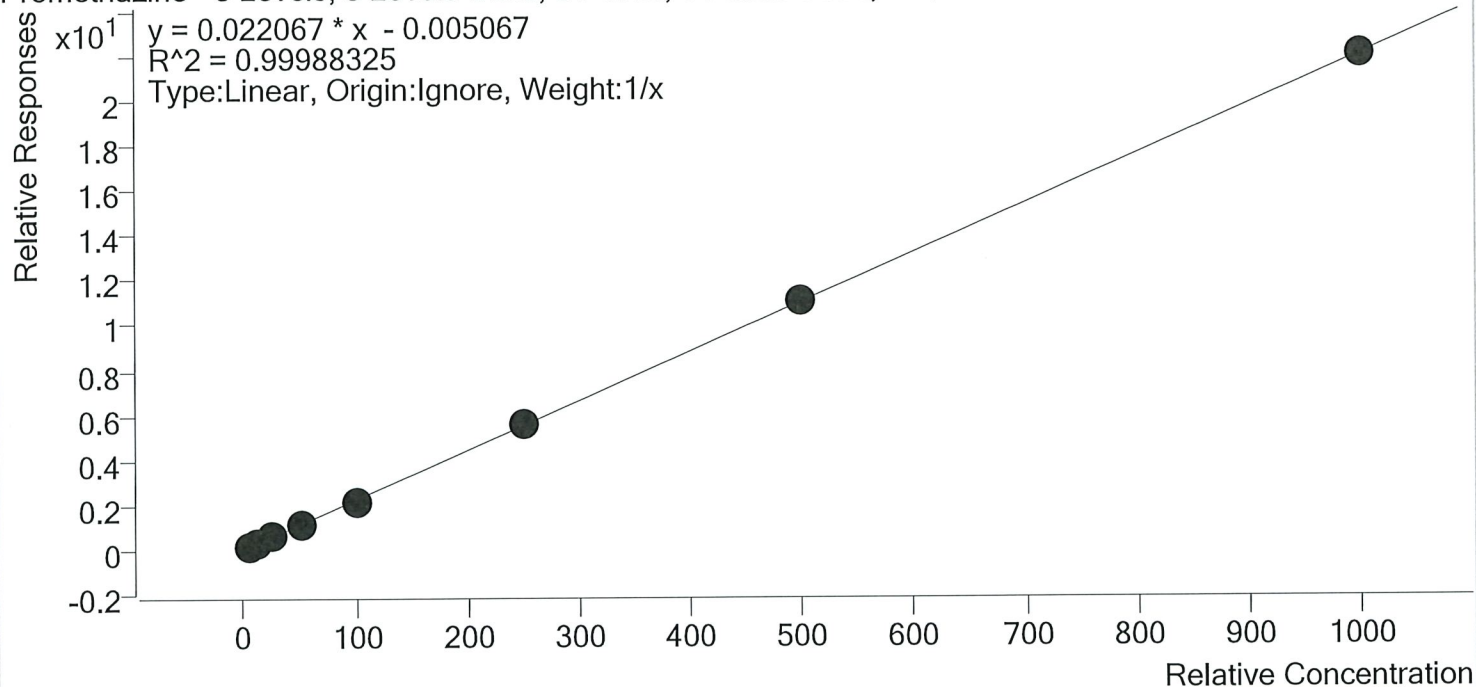
§ TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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



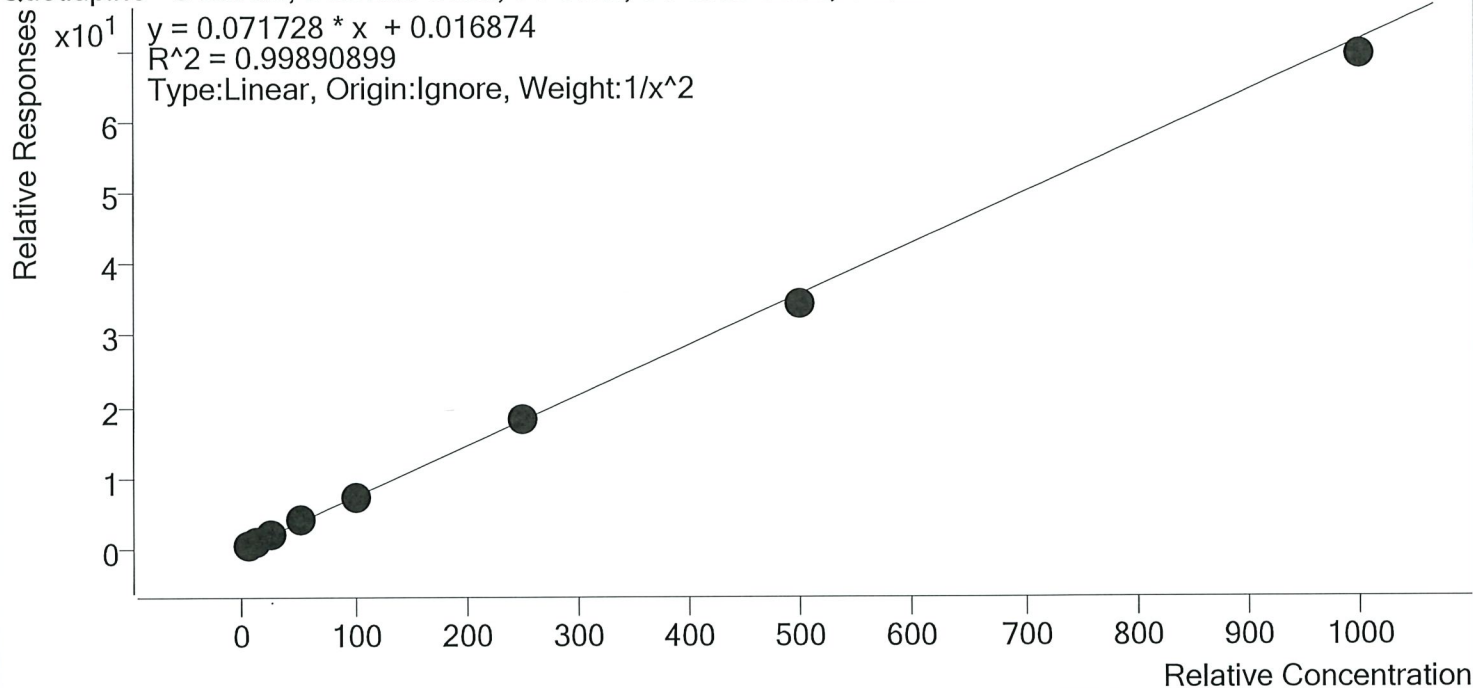
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.6
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.7
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	250.0	100.0
p1 Cal 7-500ng	7	✓	500.0	503.9	100.8
p1 Cal 8-1000ng	8	✓	1000.0	999.7	100.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	52.3	104.6
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
p1 Cal 7-500ng	7	✓	500.0	479.1	95.8
p1 Cal 8-1000ng	8	✓	1000.0	970.2	97.0

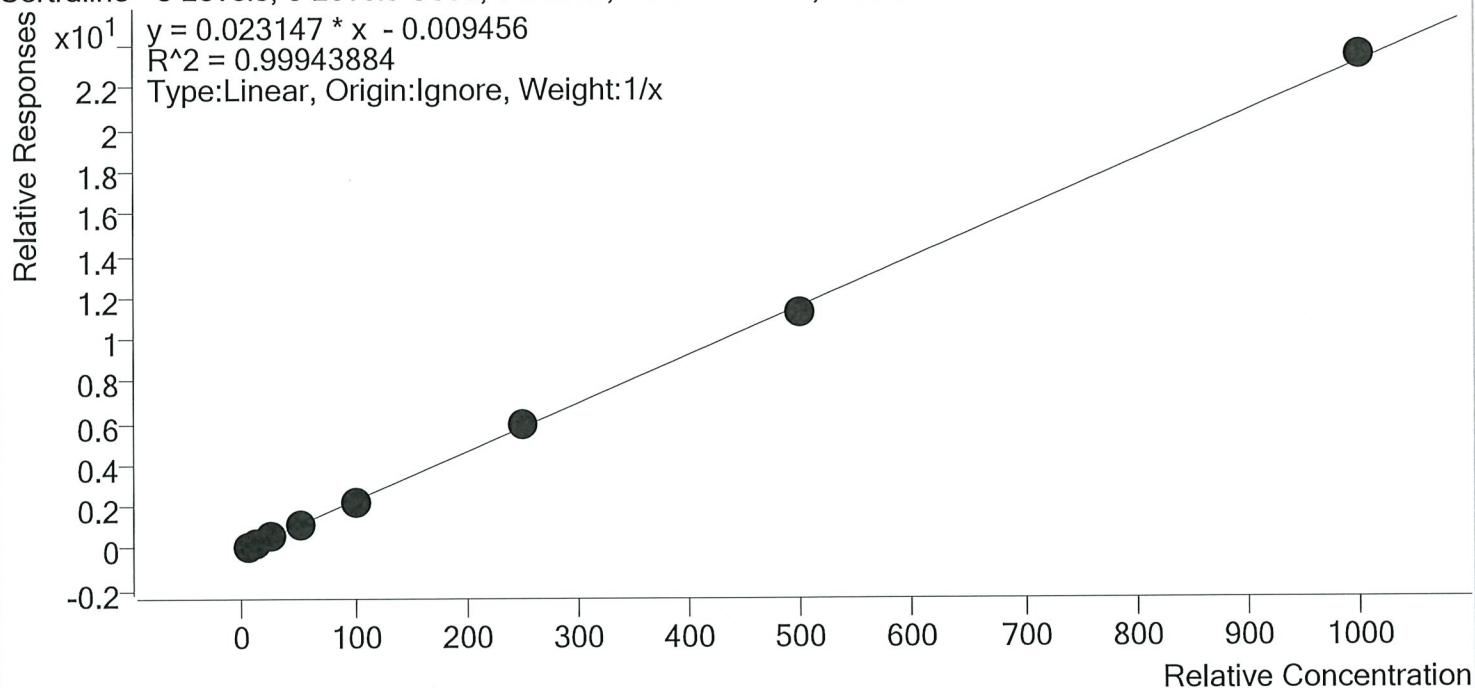
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.6
p1 Cal 4-50ng	4	✓	50.0	48.1	96.3
p1 Cal 5-100ng	5	✓	100.0	93.8	93.8
p1 Cal 6-250ng	6	✓	250.0	254.4	101.8
p1 Cal 7-500ng	7	✓	500.0	490.0	98.0
p1 Cal 8-1000ng	8	✓	1000.0	1013.6	101.4

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

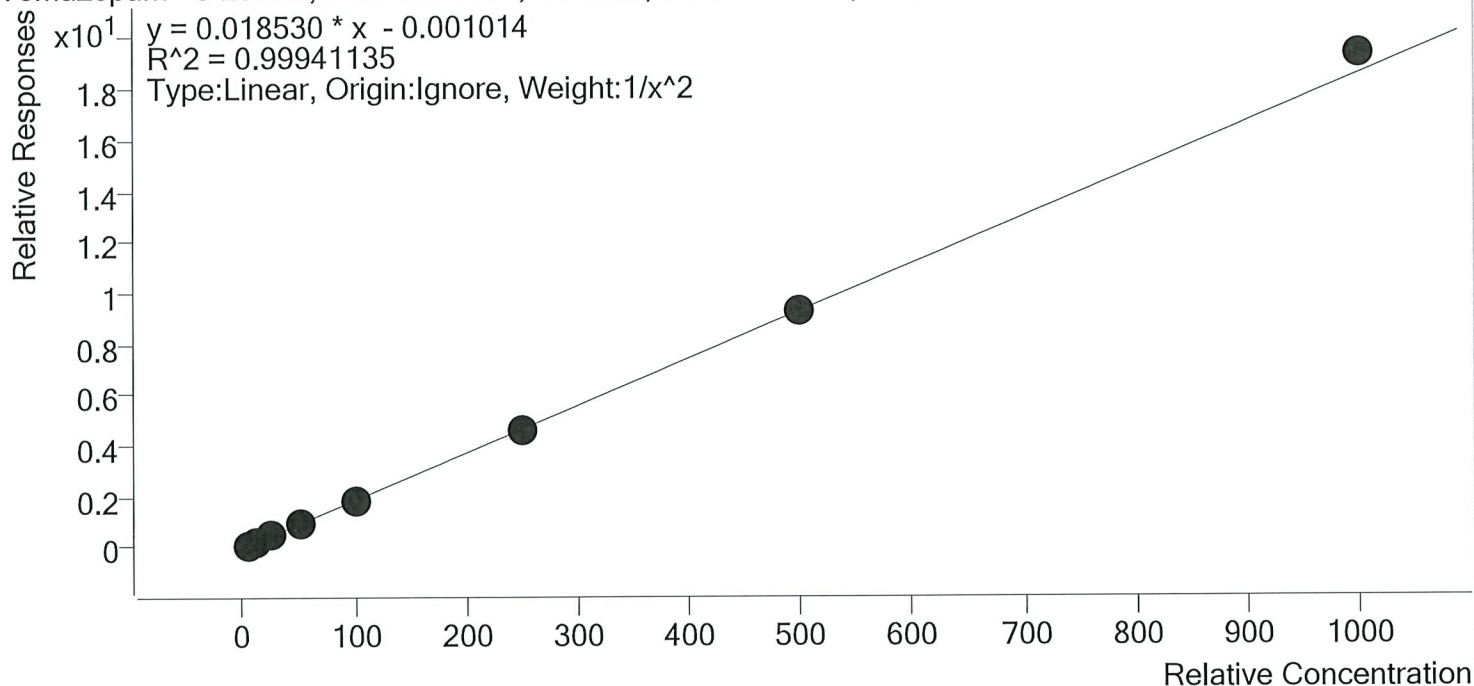
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

Analyst Name ISP\datastor

Analyte Temazepam **Internal Standard** Temazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	49.7	99.3
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	245.0	98.0
p1 Cal 7-500ng	7	✓	500.0	502.5	100.5
p1 Cal 8-1000ng	8	✓	1000.0	1042.1	104.2

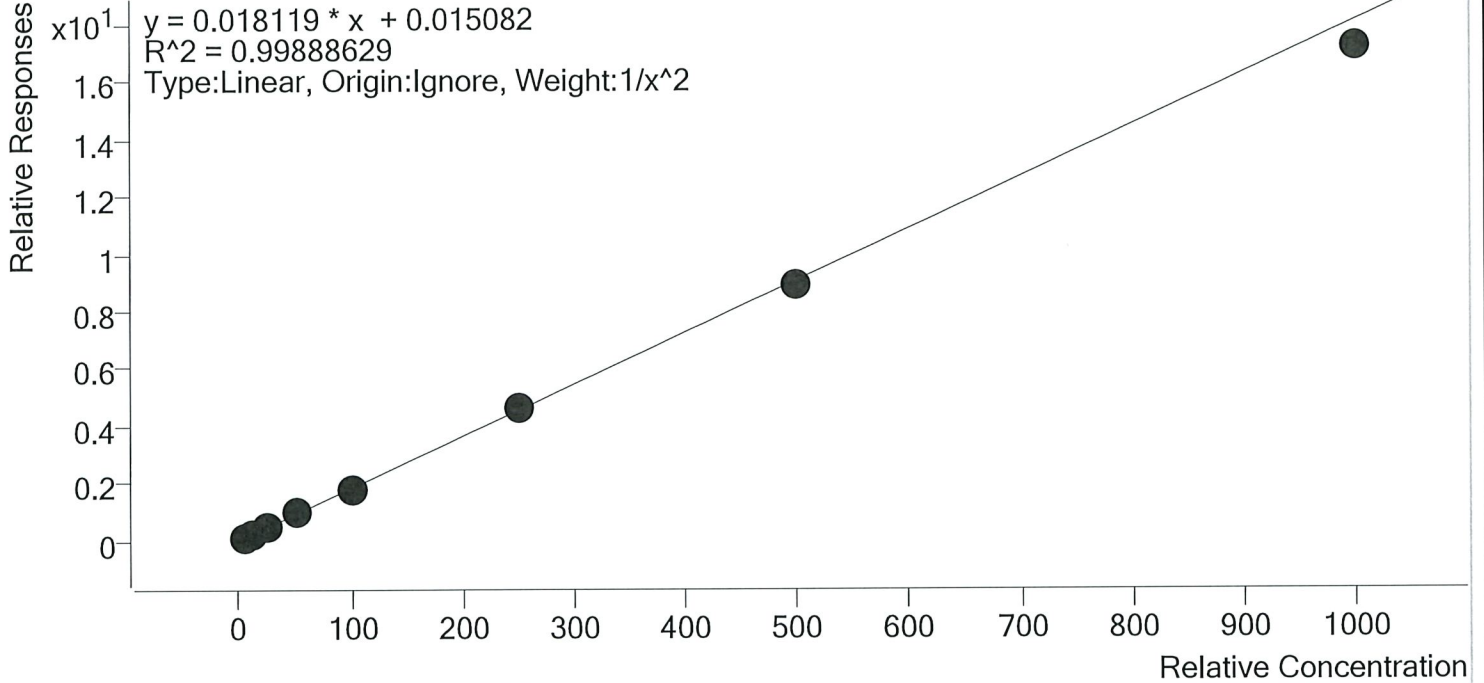
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.4
p1 Cal 4-50ng	4	✓	50.0	51.9	103.7
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	256.6	102.6
p1 Cal 7-500ng	7	✓	500.0	488.7	97.7
p1 Cal 8-1000ng	8	✓	1000.0	948.8	94.9

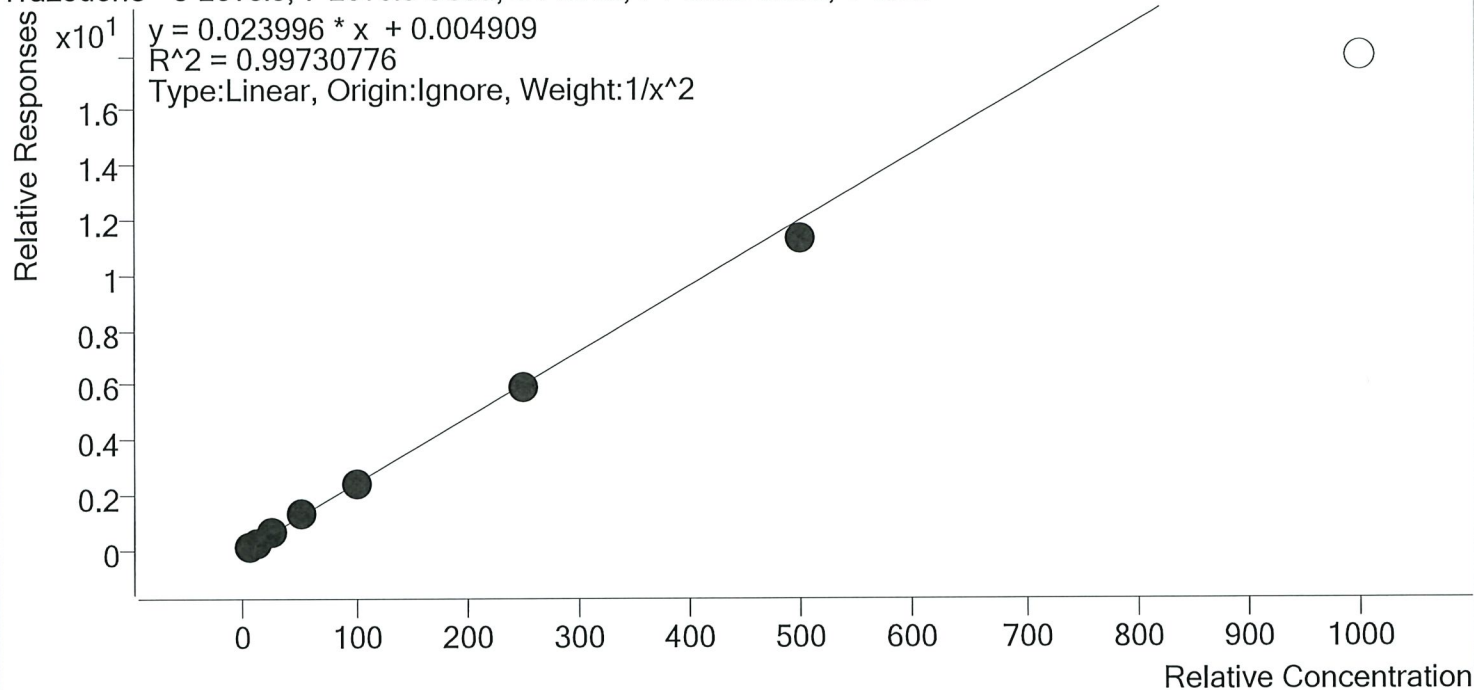
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

Trazodone - 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	97.7
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	53.8	107.6
p1 Cal 5-100ng	5	✓	100.0	99.2	99.2
p1 Cal 6-250ng	6	✓	250.0	245.0	98.0
p1 Cal 7-500ng	7	✓	500.0	469.2	93.8
p1 Cal 8-1000ng	8	×	1000.0	746.5	74.7

§ 15



AM #28 Multi-Drug Quant. Calibration Curve Report

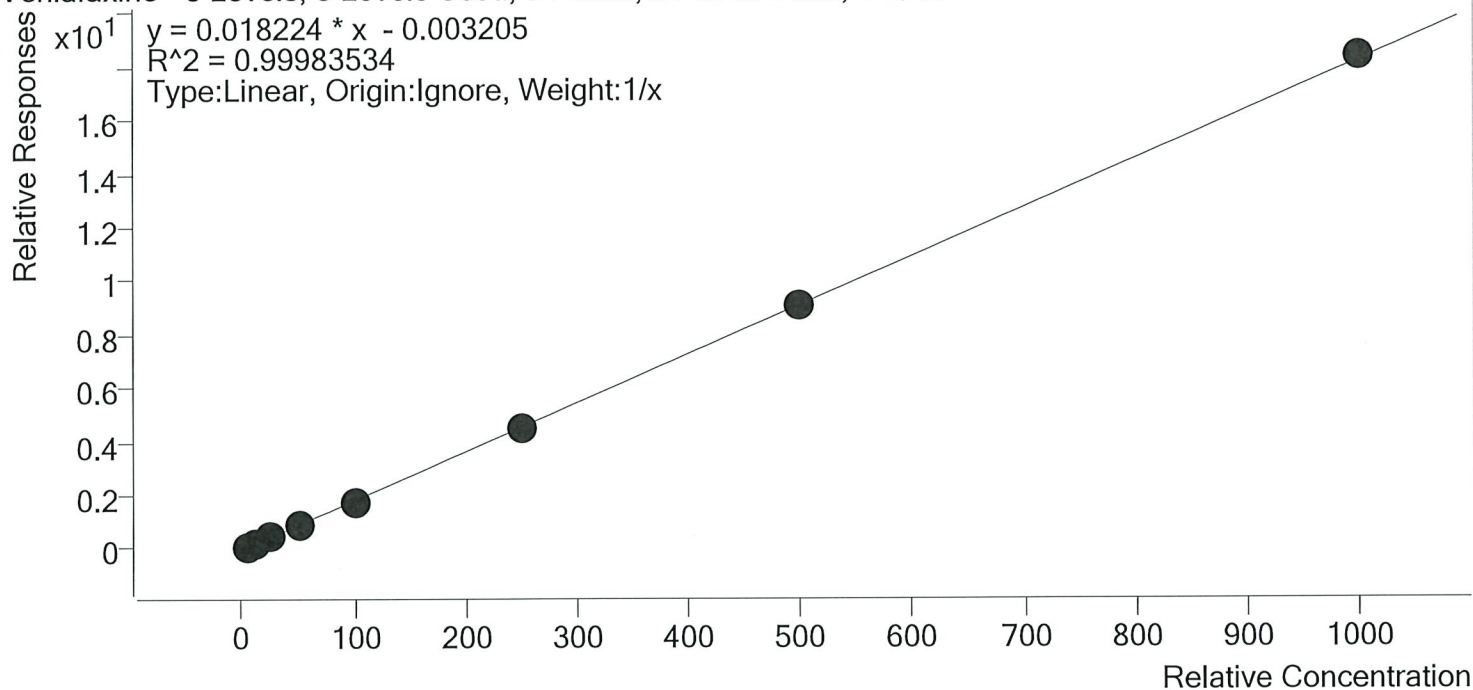
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TS.batch.bin

Last Cal. Update 11/15/2019 8:07 AM

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	5.2	104.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	96.0	96.0
p1 Cal 6-250ng	6	✓	250.0	247.0	98.8
p1 Cal 7-500ng	7	✓	500.0	498.4	99.7
p1 Cal 8-1000ng	8	✓	1000.0	1008.5	100.9

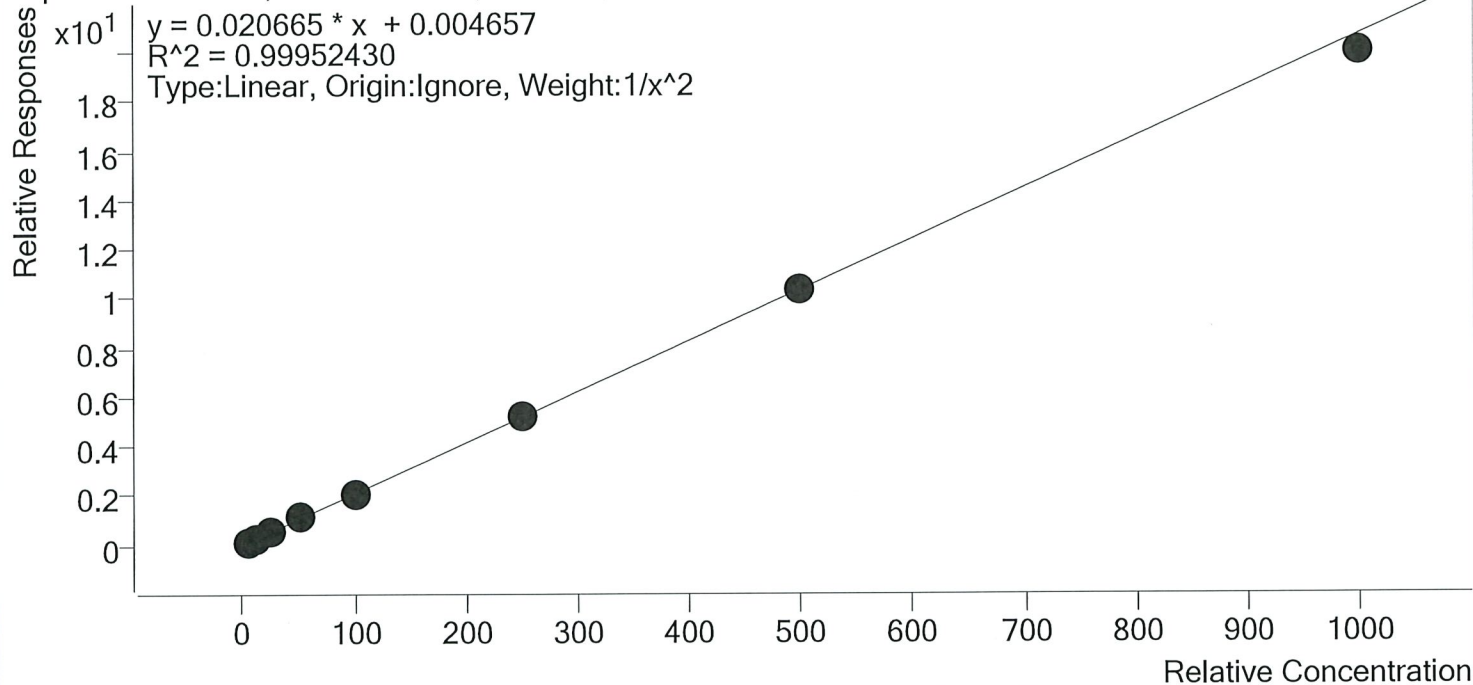
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826
 TS.batch.bin
Last Cal. Update 11/15/2019 8:07 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

Zolpidem - 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	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	499.6	99.9
p1 Cal 8-1000ng	8	✓	1000.0	966.9	96.7



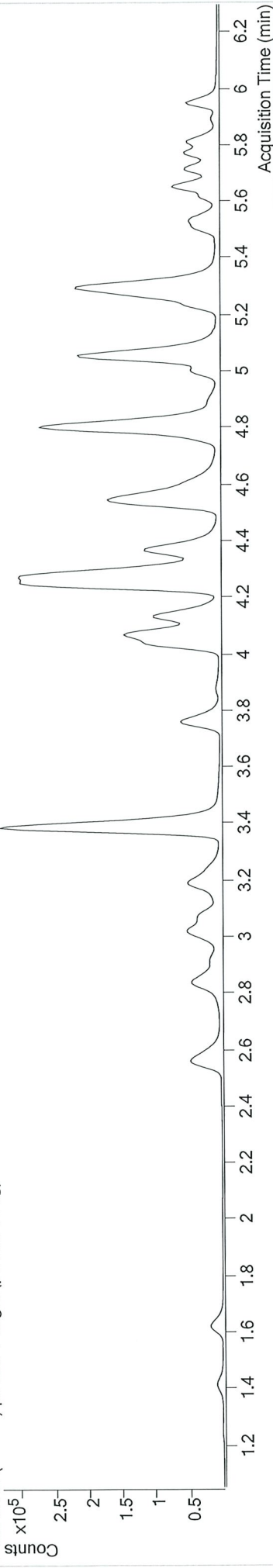
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 Cal 1-5ng.d
Type	Cal	Sample	p1 Cal 1-5ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-A1	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 8:27:52 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 1-5ng.d (p1 Cal 1-5ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	603	∞	77.6	17282.42	22907	0.5065 ng/ml
7-aminoclonazepam	4.271	6640	928.04	80.9	1078.21	48769	4.7802 ng/ml
a-hydroxylalprazolam	5.700	377	17.56	83.9	565.10	4303	5.0429 ng/ml
alpha-PVP	4.384	30184	328.94	50.6	164.68	269427	5.2012 ng/ml
Alprazolam	5.784	15057	351.58	96.2	203.87	67951	4.9614 ng/ml
Amphetamine	3.081	33517	817.14	52.9	∞	66027	4.7927 ng/ml
Benzoylcegonine	3.907	1694	362.96	7.1	11.53	10470	5.3231 ng/ml
Buprenorphine	5.652	439	14.77	10.5	7.46	31437	0.6046 ng/ml
Bupropion	4.793	17939	921.73	58.1	277.96	123476	4.4308 ng/ml
Carisoprodol	5.726	7856	1044.11	58.2	20.64	79201	5.0789 ng/ml
Citalopram	5.243	12677	799.53	41.5	1853.44	115524	5.1661 ng/ml
Clonazepam	5.620	1598	44.28	27.3	21.71	5096	5.1566 ng/ml
Cocaine	4.284	37098	55920.95	43.4	1642.44	542724	5.1220 ng/ml
Codeine	2.610	4330	217.18	100.8	5187.77	36831	4.1452 ng/ml
Cyclobenzaprine	5.631	2732	314.56	10.6	13.10	18530	5.0753 ng/ml
Dextromethorphan	5.285	5781	137.66	79.2	3616.92	51041	5.0739 ng/ml
Dextrophan	4.140	8921	3078.87	201.7	47717.04	226437	5.0612 ng/ml
Diazepam	5.961	8719	276.70	85.8	322.23	84158	4.9217 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	12253	∞	66.2	939.60	128799	4.8228 ng/ml
Diphenhydramine	5.306	26309	746.55	34.6	74.22	412990	5.2317 ng/ml
Doxylamine	4.561	69953	940.41	97.2	1212.42	575859	5.1330 ng/ml
EDDP	5.278	22593	2497.63	42.3	81.83	241475	5.0015 ng/ml
Fentanyl	5.086	414	28.35	61.3	2101.91	38035	0.6314 ng/ml
Fluoxetine	5.716	1444	396.07	5.7 Low	78.95	12342	5.5799 ng/ml
Hydrocodone	3.052	9532	80.56	42.1	40.78	122972	4.9742 ng/ml
Hydromorphone	1.634	7476	314.10	76.2	141.74	53776	5.0159 ng/ml
Ketamine	4.053	29798	3918.37	37.9	121.58	273732	4.9502 ng/ml
Lamotrigine	4.295	3517	476.78	78.8	459.48	273732	4.7712 ng/ml
Lorazepam	5.748	532	11.42	63.9	6.64 Low	5096	5.1346 ng/ml
Meprobamate	4.929	2131	114.41	25.8	23.77	19741	4.9068 ng/ml
Methadone	5.661	13450	1383.50	50.4	136.09	121160	5.5288 ng/ml
Methamphetamine	3.255	18970	141.05	42.5	54.57	154886	4.9043 ng/ml
Metoprolol	4.340	6782	∞	101.1	1868.77	701600	4.8415 ng/ml
Mirtazapine	4.616	30912	1152.85	48.8	249.67	269427	5.0133 ng/ml
Mitragynine	5.214	2246	5892.48	34.2	62.50	121160	4.6591 ng/ml
Morphine	1.260	1409	425.54	21.8	48.11	2790	4.8622 ng/ml
Nordiazepam	5.901	1885	502.07	56.3	271.12	11072	5.0744 ng/ml
Norfentanyl	4.102	3330	∞	38.3	78.14	309872	0.5093 ng/ml
Norhydrocodone	3.093	216	13.31	40.6	∞	23486	5.2385 ng/ml
Noroxycodone	2.943	6543	217.17	46.6	139.38	37443	5.0281 ng/ml
O-desmethyl-tramadol	3.394	80468	717.69	6.2	97.23	852022	5.0137 ng/ml
Oxycodone	2.868	19188	850.01	31.5	∞	165743	5.0038 ng/ml
Oxymorphone	1.423	4555	114.89	47.7	68.45	30969	4.9462 ng/ml
Phentermine	3.798	7675	286.94	2.1	6.12 Low	175126	4.9810 ng/ml
Promethazine	5.548	6438	491.94	32.7	79.96	57775	5.2795 ng/ml
Quetiapine	5.517	22449	67971.36	61.4	970.05	59919	4.9879 ng/ml
Sertraline	5.784	860	35.82	80.3	41.38	7475	5.3796 ng/ml
Temazepam	5.825	6982	213.38	33.3	43.47	75132	5.0700 ng/ml
Tramadol	4.260	73241	3974.24	3.2	35.24	701600	4.9291 ng/ml
Trazodone	5.045	14053	∞	80.6	14018.90	115066	4.8851 ng/ml
Venlafaxine	5.061	45613	959.39	36.1	152.51	496339	5.2186 ng/ml
Zolpidem	4.824	72724	27476.02	31.4	863.13	680079	4.9492 ng/ml

TS

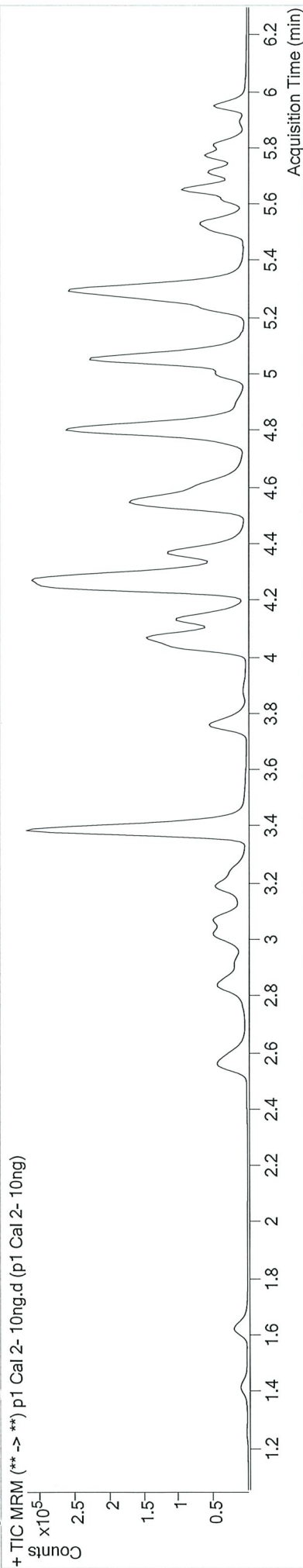


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 Cal 2- 10ng.d
Type	Cal	Sample	p1 Cal 2- 10ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-B1	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 8:38:26 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.163	1056	∞	64.7	3357.61	20713	1.0028 ng/ml
7-aminoclonazepam	4.271	12482	1744.48	75.7	5028.23	46492	10.4942 ng/ml
a-hydroxylprazolam	5.707	686	196.97	81.6	282.30	3776	10.0560 ng/ml
alpha-PVP	4.384	52210	5120.75	51.3	325.01	241686	9.9091 ng/ml
Alprazolam	5.777	26172	791.27	102.8	258.24	62262	9.8020 ng/ml
Amphetamine	3.081	62670	748.48	53.2	1632.53	65244	10.3047 ng/ml
Benzoyllecgonine	3.907	2265	∞	9.4	48.09	9230	8.9030 ng/ml
Buprenorphine	5.652	834	18.64	19.5	∞	37037	0.9671 ng/ml
Bupropion	4.793	30521	1125.85	57.7	197.06	108263	9.6486 ng/ml
Carisoprodol	5.726	13740	658.98	63.0	63.87	72211	9.7233 ng/ml
Citalopram	5.243	27868	117.32	41.6	21234.53	130762	9.9428 ng/ml
Clonazepam	5.614	2513	106.35	36.9	735.92	4706	9.5527 ng/ml
Cocaine	4.284	64951	7187.91	43.7	11116.80	500847	9.8861 ng/ml
Codeine	2.610	7837	1348.22	100.8	∞	33465	9.8285 ng/ml
Cyclobenzaprine	5.631	7305	∞	10.7	254.61	26288	9.7577 ng/ml
Dextromethorphan	5.285	13633	240.34	78.9	∞	61932	9.9769 ng/ml
Dextrophan	4.140	16271	3235.33	207.8	1051.16	215199	9.9732 ng/ml
Diazepam	5.961	15512	304.18	84.8	222.91	74059	10.2717 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	21387	7534.39	66.6	1939.38	116200	10.2179 ng/ml
Diphenhydramine	5.306	59205	4079.95	33.9	106.64	469308	10.1278 ng/ml
Doxylamine	4.561	120602	701.72	98.4	1714.17	510751	9.9218 ng/ml
EDDP	5.278	45213	58472.28	40.8	888.44	246590	9.9583 ng/ml
Fentanyl	5.086	926	447.31	66.7	1420.00	51051	0.9935 ng/ml
Fluoxetine	5.716	4659	447.26	9.2	∞	20487	10.4405 ng/ml
Hydrocodone	3.052	17098	66.45	42.9	93.38	114007	9.9222 ng/ml
Hydromorphone	1.634	12999	426.80	77.3	549.67	48320	9.9276 ng/ml
Ketamine	4.053	53105	4371.84	39.6	247.42	249188	10.0567 ng/ml
Lamotrigine	4.295	6120	628.87	77.7	1404.87	249188	10.4776 ng/ml
Lorazepam	5.755	660	22.87	103.2 High	3.13 Low	4706	6.9910 ng/ml
Meprobamate	4.922	3895	345.22	24.8	6.54 Low	18058	10.3667 ng/ml
Methadone	5.661	31420	622.58	51.4	95.36	149685	10.0978 ng/ml
Methamphetamine	3.255	31182	437.84	42.2	254.92	138618	10.1120 ng/ml
Metoprolol	4.340	12170	43133.44	99.1	956.28	646293	10.2061 ng/ml
Mirtazapine	4.616	64567	23024.59	48.2	950.22	241686	10.4187 ng/ml
Mitragynine	5.214	5575	472.66	41.5	12329.76	149685	9.9326 ng/ml
Morphine	1.266	2474	2347.56	21.1	∞	2335	10.3957 ng/ml
Nordiazepam	5.901	3187	432.55	56.5	176.08	10151	9.8480 ng/ml
Norfentanyl	4.102	6196	299.66	36.9	62.33	299061	0.9730 ng/ml
Norhydrocodone	3.093	401	79.59	33.5	235.40	21497	9.6913 ng/ml
Noroxycodone	2.943	11630	172.61	45.6	15.82	35282	9.8209 ng/ml
O-desmethyl-tramadol	3.394	141044	1125.49	6.1	186.69	765295	10.0137 ng/ml
Oxycodone	2.868	34240	766.64	31.0	1094.79	152688	9.9257 ng/ml
Oxymorphone	1.423	8062	297.37	47.7	180.64	28315	10.0586 ng/ml
Phentermine	3.798	12704	∞	1.8	5.32 Low	161328	9.6142 ng/ml
Promethazine	5.548	17081	1985.72	31.6	214.41	82007	9.6686 ng/ml
Quetiapine	5.517	46447	24188.06	60.4	4422.04	64124	9.8630 ng/ml
Sertraline	5.784	2839	102.57	99.1	50.40	12199	10.4611 ng/ml
Temazepam	5.825	12093	188.48	29.9	18.37	66981	9.7982 ng/ml
Tramadol	4.260	128705	733.60	3.2	58.17	646293	10.1586 ng/ml
Trazodone	5.045	31580	30958.09	78.6	11785.19	125084	10.3169 ng/ml
Venlafaxine	5.061	84358	2733.32	36.4	2094.95	464848	10.1339 ng/ml
Zolpidem	4.824	131869	∞	29.9	6890.42	614755	10.1546 ng/ml

5 TS



AM #28 Multi-Drug Quant. Results

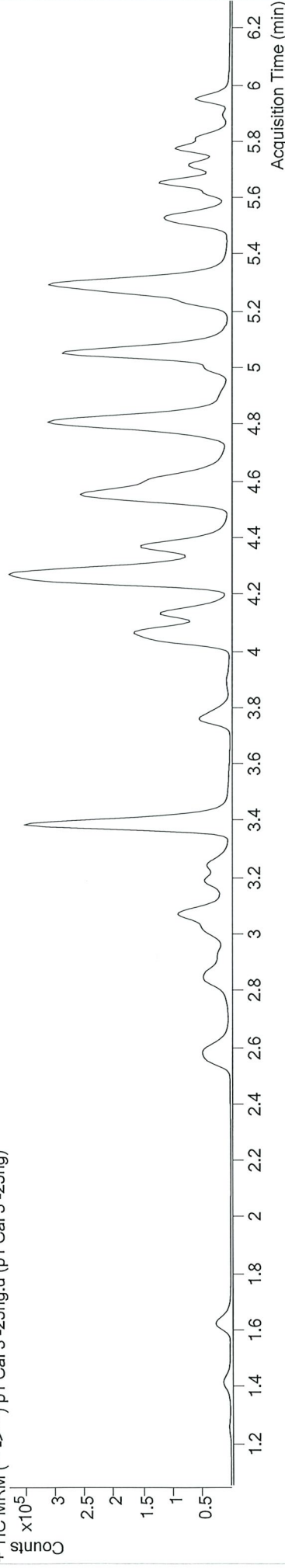
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11/15/2019 8:07:03 AM

Instrument Type Falco
Acq. Method Cal
Sample Position MDQ P1 Combined 092319.m
Injection Volume P1-C1
Acq. Date-Time 2
Sample Info. 11/13/2019 8:49:00 PM

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

Sample Chromatogram

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	2223	4652.51	78.0	534.61	18921	2.3414 ng/ml
7-aminoclonazepam	4.271	28970	9128.06	80.1	∞	45060	26.6616 ng/ml
a-hydroxylalprazolam	5.700	1609	70.40	68.8	∞	3675	23.7145 ng/ml
alpha-PVP	4.384	130016	422.97	50.0	1171.14	238951	24.7616 ng/ml
Alprazolam	5.777	58936	672.76	104.5	∞	58466	24.1151 ng/ml
Amphetamine	3.081	146409	43.76	53.5	2210.39	62349	27.1926 ng/ml
Benzoylcegonine	3.907	5019	∞	7.4	117.17	8376	24.0622 ng/ml
Buprenorphine	5.652	2201	61.03	19.1	1171.54	36005	2.6078 ng/ml
Bupropion	4.793	92292	11072.17	57.6	6081.23	130959	25.7957 ng/ml
Carisoprodol	5.726	31960	797.38	55.2	238.99	65311	24.9715 ng/ml
Citalopram	5.236	65328	2741.41	42.0	4488.59	121529	24.9324 ng/ml
Clonazepam	5.614	5625	108.51	34.7	617.71	4576	23.4269 ng/ml
Cocaine	4.284	146996	10588.36	44.3	11811.45	454155	24.9555 ng/ml
Codeine	2.610	16957	69.31	103.8	∞	29803	26.1428 ng/ml
Cyclobenzaprine	5.631	20862	1487.63	10.5	89.10	30275	24.5196 ng/ml
Dextromethorphan	5.285	32423	48.78	78.0	259.33	60592	24.4280 ng/ml
Dextrophan	4.140	36880	890.37	208.2	163377.09	199548	24.7868 ng/ml
Diazepam	5.961	33475	∞	88.7	1492.19	67187	24.8673 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	48125	601.55	66.9	198.84	104991	26.8621 ng/ml
Diphenhydramine	5.306	138026	∞	34.3	3874.73	448470	24.3668 ng/ml
Doxylamine	4.561	309703	1894.13	97.0	5961.46	516769	25.0916 ng/ml
EDDP	5.278	110970	759.84	42.1	275.78	240554	25.3026 ng/ml
Fentanyl	5.086	2347	66.05	69.6	5923.53	55068	2.2118 ng/ml
Fluoxetine	5.716	13995	231.91	9.7	∞	25251	24.8354 ng/ml
Hydrocodone	3.052	38863	∞	42.2	44.53	101396	25.8539 ng/ml
Hydromorphone	1.634	28522	551.67	76.1	∞	42882	24.8958 ng/ml
Ketamine	4.053	120449	10752.53	37.8	636.97	227105	25.5962 ng/ml
Lamotrigine	4.295	13557	1133.21	80.6	4748.48	227105	27.5960 ng/ml
Lorazepam	5.755	1992	40.83	56.9	8.43	4576	22.3028 ng/ml
Meprobamate	4.922	8568	1350.83	25.0	164.59	17157	24.7418 ng/ml
Methadone	5.661	75636	3585.78	52.5	1909.93	144172	24.6368 ng/ml
Methamphetamine	3.255	69878	630.96	42.4	189.93	129425	26.1179 ng/ml
Metoprolol	4.340	27989	93831.87	95.8	2854.04	598076	26.5806 ng/ml
Mirtazapine	4.616	148362	3746.69	49.2	4151.20	238951	22.9635 ng/ml
Mitragynine	5.214	13058	278.76	39.6	192.27	144172	24.9679 ng/ml
Morphine	1.260	5382	1900.04	21.6	2507.84	2078	25.6620 ng/ml
Norbuprenorphine	5.010	96	66.00	77.6	633.88	1346	2.5837 ng/ml
Nordiazepam	5.901	6843	592.82	62.5	∞	9354	23.7166 ng/ml
Norfentanyl	4.102	15597	11126.06	37.0	288.25	295111	2.4670 ng/ml
Norhydrocodone	3.093	878	30.38	38.1	70.23	20700	20.9038 ng/ml
Noroxycodone	2.943	25370	596.78	46.1	309.30	31202	24.7813 ng/ml
O-desmethyl-tramadol	3.394	308683	23379.54	6.2	778.20	688639	24.7012 ng/ml
Oxazepam	5.758	2314	19.49	79.9	11.41	6325	24.8538 ng/ml
Oxycodone	2.868	75120	1100.73	30.8	1198.47	134787	25.0385 ng/ml
Oxymorphone	1.423	17466	191.27	47.8	245.02	25241	25.1836 ng/ml
Phentermine	3.798	32250	582.33	2.3	64.52	155629	26.6597 ng/ml
Promethazine	5.548	50149	11323.98	29.3	451.47	91313	25.1176 ng/ml
Quetiapine	5.517	109696	260046.37	59.8	114807.72	59192	25.6014 ng/ml
Sertraline	5.784	8644	167.03	94.6	270.57	15732	24.1442 ng/ml
Temazepam	5.825	27347	261.75	30.3	91.40	60127	24.5999 ng/ml
Tramadol	4.260	283651	11308.68	3.3	88.18	598076	25.3432 ng/ml
Trazodone	5.045	72645	∞	78.8	12101.82	119555	25.1175 ng/ml
Venlafaxine	5.061	193242	569.62	36.8	1741.93	432374	24.7003 ng/ml
Zolpidem	4.824	293529	21726.47	30.8	1674.17	563212	24.9941 ng/ml

25



AM #28 Multi-Drug Quant. Results

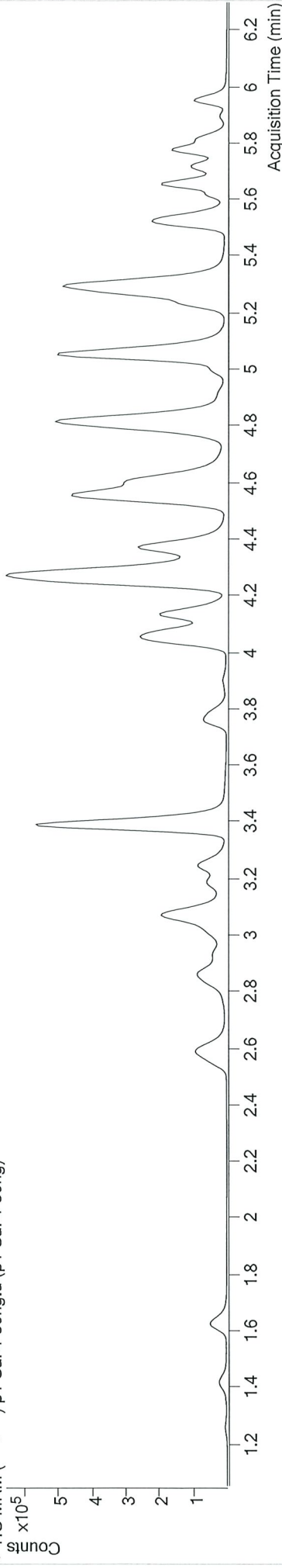
Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 Cal 4-50ng.d
Type	Cal	Sample	p1 Cal 4-50ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-D1	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 8:59:35 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	3.156	5638	874.32	70.9	577.02	22622	4.9921 ng/ml
7-aminoclonazepam	4.271	66730	∞	82.3	∞	53090	53.1740 ng/ml
a-hydroxylalprazolam	5.700	3709	85.56	62.9	281.71	3939	50.5772 ng/ml
alpha-PVP	4.384	302616	1526.26	50.2	5829.64	272820	50.3439 ng/ml
Alprazolam	5.784	132263	962.89	103.4	1495.43	60592	52.7271 ng/ml
Amphetamine	3.081	345773	9314.60	53.7	5007.42	75114	54.6373 ng/ml
Benzoylcegonine	3.907	11345	4938.37	7.9	53.78	9353	50.3594 ng/ml
Buprenorphine	5.652	5181	219.74	15.3	∞	40905	5.3914 ng/ml
Bupropion	4.793	172642	11816.31	57.6	536.57	121804	53.0106 ng/ml
Carisoprodol	5.733	69851	1699.43	56.5	336.04	72605	49.0731 ng/ml
Citalopram	5.243	157426	∞	42.3	1713.34	145127	50.2148 ng/ml
Clonazepam	5.614	13021	1127.90	32.4	∞	4988	50.9941 ng/ml
Cocaine	4.284	361755	42418.24	44.4	37360.53	555785	50.3749 ng/ml
Codeine	2.610	38815	8874.26	107.8	11444.87	35783	51.2774 ng/ml
Cyclobenzaprine	5.631	42252	∞	10.2	897.09	29768	50.7348 ng/ml
Dextromethorphan	5.285	72828	2684.29	80.1	308995.93	66213	50.3421 ng/ml
Dextropropion	4.140	91047	615.61	211.1	810.04	245562	50.0103 ng/ml
Diazepam	5.961	77015	768.94	87.9	2006.03	74542	51.9040 ng/ml

p1 Cal 4-50ng



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	116254	221.90	67.8	6557.26	128662	53.8737 ng/ml
Diphenhydramine	5.306	331421	7506.66	33.7	∞	518910	50.3111 ng/ml
Doxylamine	4.561	694672	51523.17	97.2	19058.40	577190	50.3299 ng/ml
EDDP	5.278	258925	8444.06	42.3	7777.04	282071	50.5105 ng/ml
Fentanyl	5.086	5367	904.71	69.3	13768.69	55663	4.8916 ng/ml
Fluoxetine	5.716	25889	1920.11	9.6	2634.73	23024	49.9470 ng/ml
Hydrocodone	3.052	94185	79.41	43.2	269.29	126185	50.6499 ng/ml
Hydromorphone	1.634	70659	1206.21	76.3	2111.62	52340	50.7747 ng/ml
Ketamine	4.053	296644	1142.98	38.6	2238.55	281572	51.2213 ng/ml
Lamotrigine	4.295	30883	22243.19	81.3	6233.93	281572	51.9508 ng/ml
Lorazepam	5.755	4787	132.92	54.1	21.74	4988	49.5068 ng/ml
Meprobamate	4.922	19587	∞	25.1	498.92	19249	50.9959 ng/ml
Methadone	5.661	168104	3232.86	53.7	2519.94	164704	47.5518 ng/ml
Methamphetamine	3.255	171984	364.59	43.1	2575.85	163431	52.1584 ng/ml
Metoprolol	4.340	68049	137226.36	96.5	∞	726952	53.9858 ng/ml
Mirtazapine	4.616	363330	22543.93	48.7	8497.67	272820	48.1735 ng/ml
Mitragynine	5.214	30036	3318.30	39.2	∞	164704	50.8477 ng/ml
Morphine	1.266	12775	∞	22.0	4104.21	2465	51.5139 ng/ml
Norbuprenorphine	5.010	151	11.60	65.6	59.07	1336	4.8131 ng/ml
Nordiazepam	5.901	16842	685.18	57.1	340.38	10670	51.8466 ng/ml
Norfentanyl	4.102	34973	13048.01	37.0	238.72	329495	4.9448 ng/ml
Norhydrocodone	3.093	2678	97.78	40.5	151.11	26566	48.4254 ng/ml
Noroxycodone	2.943	64792	2581.02	46.4	650.78	38466	51.7427 ng/ml
O-desmethyl-tramadol	3.394	759451	29797.74	6.2	345.34	842971	49.8899 ng/ml
Oxazepam	5.758	5202	79.64	74.4	90.14	6784	50.1424 ng/ml
Oxycodone	2.868	191899	3784.25	30.9	1786.58	168386	51.4602 ng/ml
Oxymorphone	1.423	42641	252.27	47.7	163.65	29114	53.8819 ng/ml
Phentermine	3.798	78981	3804.15	2.1	113.17	190185	54.2651 ng/ml
Promethazine	5.548	100024	1573.42	30.3	∞	90754	50.1755 ng/ml
Quetiapine	5.517	268398	36467.47	59.8	1198.84	71224	52.3013 ng/ml
Sertraline	5.784	15978	188.93	89.0	2563.29	14463	48.1338 ng/ml
Temazepam	5.825	63231	953.35	29.9	134.66	68775	49.6717 ng/ml
Tramadol	4.260	694066	1195.85	3.4	398.38	726952	51.8619 ng/ml
Trazodone	5.045	169643	2366.27	80.7	∞	130915	53.7971 ng/ml
Venlafaxine	5.061	482481	1707.11	36.8	2046.68	530352	50.0956 ng/ml
Zolpidem	4.824	705353	925.80	30.6	373.79	660036	51.4870 ng/ml

55



AM #28 Multi-Drug Quant. Results

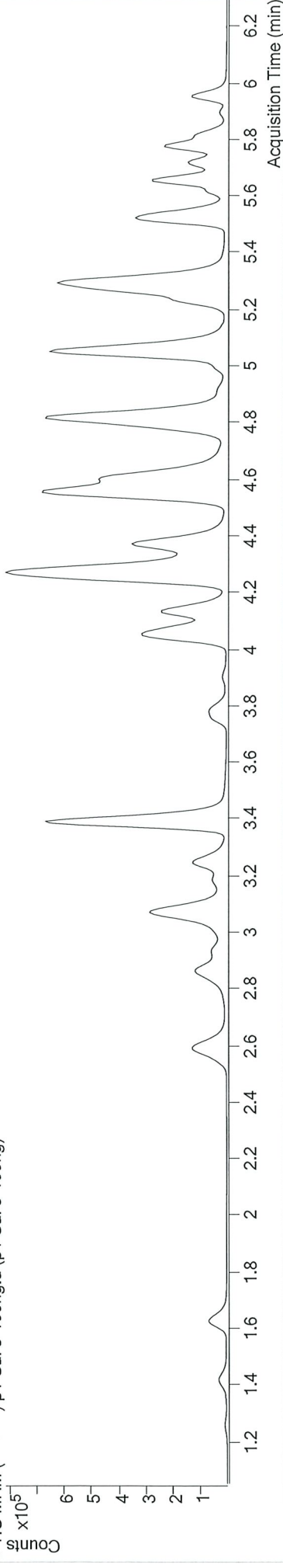
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11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 Cal 5-100ng.d
Type	Cal	Sample	p1 Cal 5-100ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-E1	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 9:10:09 PM		

Sample Info.

Sample Chromatogram

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	8905	36477.79	70.2	27644.54	18716	9.5526 ng/ml
7-aminoclonazepam	4.271	100834	∞	82.5	∞	41858	102.9193 ng/ml
a-hydroxylalprazolam	5.700	5925	97.35	68.9	496.97	3321	95.4881 ng/ml
alpha-PVP	4.384	492772	20433.52	50.2	961.91	228336	97.8272 ng/ml
Alprazolam	5.784	208765	1204.70	103.6	15339.70	50974	99.3091 ng/ml
Amphetamine	3.081	530391	9881.85	53.4	11336.51	61361	103.8107 ng/ml
Benzoyllecgonine	3.907	18041	180.13	8.3	∞	8280	91.7422 ng/ml
Buprenorphine	5.652	8606	692.22	15.4	1102.06	36016	10.1620 ng/ml
Bupropion	4.793	307335	20170.16	58.3	564.42	112263	103.4298 ng/ml
Carisoprodol	5.726	117752	670.20	52.2	259.08	60192	99.7641 ng/ml
Citalopram	5.236	263041	1866.04	42.3	759.74	125048	97.2855 ng/ml
Clonazepam	5.614	21005	805.42	34.7	1100.94	4101	101.0895 ng/ml
Cocaine	4.284	564611	594722.75	44.5	15017.51	445433	98.2793 ng/ml
Codeine	2.610	64170	176.18	100.4	223.88	28365	108.6606 ng/ml
Cyclobenzaprine	5.631	72018	87831.87	10.0	363.38	26187	98.5048 ng/ml
Dextromethorphan	5.285	127049	17047.63	78.5	234.17	58062	100.2716 ng/ml
Dextrophan	4.140	145416	725.24	207.8	22547.16	198109	99.2832 ng/ml
Diazepam	5.961	124015	1674.14	88.0	1277.74	62957	99.2456 ng/ml

5
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AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	182507	894.35	67.3	358.75	103288	106.2610 ng/ml
Diphenhydramine	5.306	560459	19470.17	33.7	2899.04	449246	98.0470 ng/ml
Doxylamine	4.561	1166777	4315.20	96.5	1704.21	499453	97.6364 ng/ml
EDDP	5.278	429752	453.05	42.4	3989.53	244817	96.7418 ng/ml
Fentanyl	5.086	8630	3074.62	71.8	19677.51	47981	9.0470 ng/ml
Fluoxetine	5.716	43979	3656.46	9.0	2268.15	19808	98.2102 ng/ml
Hydrocodone	3.052	149083	240.10	43.0	∞	99026	102.4850 ng/ml
Hydromorphone	1.634	111645	1056.25	76.1	∞	42307	99.4802 ng/ml
Ketamine	4.053	463187	25502.49	38.3	4492.46	224754	100.5617 ng/ml
Lamotrigine	4.295	46980	15932.71	80.6	5653.01	224754	100.3566 ng/ml
Lorazepam	5.755	7134	248.92	56.8	57.35	4101	89.9577 ng/ml
Meprobamate	4.922	31769	6983.65	25.6	191.64	15807	101.2746 ng/ml
Methadone	5.661	302994	22571.79	52.1	1730.71	146954	95.6525 ng/ml
Methamphetamine	3.255	269563	892.54	43.2	2152.12	132912	101.7471 ng/ml
Metoprolol	4.340	105990	78017.91	96.9	∞	596643	103.1858 ng/ml
Mirtazapine	4.616	593394	13521.88	49.2	∞	228336	93.1064 ng/ml
Mitragynine	5.214	51592	9967.05	40.3	2028.15	146954	98.4162 ng/ml
Morphine	1.260	21039	6303.62	20.9	∞	2088	100.3276 ng/ml
Norbuprenorphine	5.003	255	16.18	78.4	172.25	1324	9.1149 ng/ml
Nordiazepam	5.901	25554	902.24	59.1	406.05	8687	97.1199 ng/ml
Norfentanyl	4.102	60739	281.00	37.9	342.50	292480	9.6655 ng/ml
Norhydrocodone	3.093	4791	192.11	42.0	101.74	22734	100.2478 ng/ml
Noroxycodone	2.943	101618	589.52	45.8	129.61	30202	103.7327 ng/ml
O-desmethyl-tramadol	3.394	1198479	1460.43	6.2	2027.15	679447	97.9102 ng/ml
Oxazepam	5.758	8763	80.51	73.0	54.69	5580	100.8290 ng/ml
Oxycodone	2.868	297000	3451.85	31.7	1585.82	135703	99.0553 ng/ml
Oxymorphone	1.417	64390	1093.38	47.3	195.66	24454	97.2835 ng/ml
Phentermine	3.798	124541	7980.20	2.1	214.99	156764	104.5707 ng/ml
Promethazine	5.548	169219	4745.03	31.2	3095.86	79944	96.1525 ng/ml
Quetiapine	5.517	442174	85191.52	60.2	9955.87	61352	100.2441 ng/ml
Sertraline	5.784	22981	189.81	95.5	722.14	10628	93.8232 ng/ml
Temazepam	5.825	101504	633.12	30.2	298.08	54710	100.1806 ng/ml
Tramadol	4.260	1084374	39988.11	3.5	304.73	596643	99.4750 ng/ml
Trazodone	5.045	291503	27553.37	78.1	30394.17	122164	99.2358 ng/ml
Venlafaxine	5.061	761481	1039.16	37.0	2313.59	436120	95.9857 ng/ml
Zolpidem	4.824	1106554	81344.71	31.0	1280.16	539638	99.0006 ng/ml

57 AS



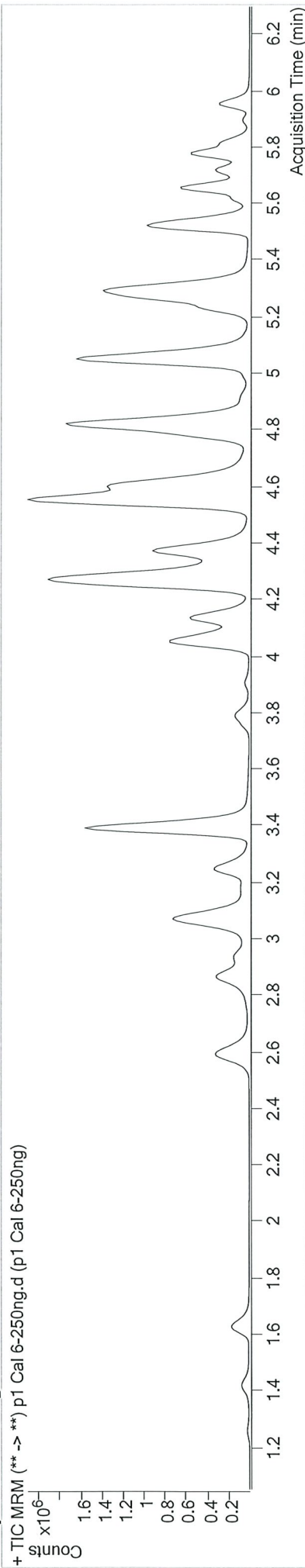
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 Cal 6-250ng.d
Type	Cal	Sample	p1 Cal 6-250ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-F1	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 9:20:44 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	26605	3948.61	71.6	∞	21179	25.2585 ng/ml
7-aminoclonazepam	4.271	244009	37714.13	82.6	23257.18	42831	244.8922 ng/ml
a-hydroxyalprazolam	5.700	17239	∞	66.4	578.38	3814	241.3821 ng/ml
alpha-PVP	4.377	1513354	30851.65	50.6	1469.93	276121	248.2446 ng/ml
Alprazolam	5.784	547230	1543.89	102.7	2621.77	52142	255.1664 ng/ml
Amphetamine	3.081	1398886	15648.33	53.7	26951.43	70717	239.3556 ng/ml
Benzoyllecgonine	3.907	53316	307.87	7.8	156.05	8998	252.2432 ng/ml
Buprenorphine	5.652	23103	567.41	16.6	2686.20	39204	25.0454 ng/ml
Bupropion	4.793	952609	57715.86	58.2	24833.80	140718	257.4074 ng/ml
Carisoprodol	5.726	305266	∞	53.5	∞	62837	247.7148 ng/ml
Citalopram	5.236	746937	1197.02	41.9	4368.11	138551	249.1789 ng/ml
Clonazepam	5.614	63557	5448.88	32.4	48696.61	4825	261.7539 ng/ml
Cocaine	4.284	1632748	272983.77	44.2	25877.14	505407	250.7711 ng/ml
Codeine	2.610	175600	491.41	101.6	257.65	32664	260.3950 ng/ml
Cyclobenzaprine	5.631	220174	11480.43	10.0	279.49	31685	249.2267 ng/ml
Dextromethorphan	5.285	340916	698.70	78.6	11098.23	62212	251.2993 ng/ml
Dextrophan	4.140	425986	33890.66	208.1	3344.49	229789	251.1762 ng/ml
Diazepam	5.961	328281	12197.37	87.6	552.83	66228	250.2162 ng/ml

p1 Cal 6-250ng



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	514149	∞	67.4	347.19	123197	252.2690 ng/ml
Diphenhydramine	5.306	1544610	61233.04	34.2	40156.71	497179	243.8101 ng/ml
Doxylamine	4.554	3771233	115326.52	97.2	108815.28	637535	247.1374 ng/ml
EDDP	5.278	1285258	1851.49	41.8	747.46	286525	247.4637 ng/ml
Fentanyl	5.086	25828	663.12	69.5	55835.67	54428	23.7215 ng/ml
Fluoxetine	5.716	142576	556.27	8.9	∞	25668	245.0529 ng/ml
Hydrocodone	3.052	446124	204.35	41.7	∞	119836	253.8939 ng/ml
Hydromorphone	1.634	323969	∞	76.4	1276.30	48558	251.8705 ng/ml
Ketamine	4.053	1377316	39664.56	39.0	4465.39	270468	249.0469 ng/ml
Lamotrigine	4.295	119006	4710.68	79.3	∞	270468	212.8940 ng/ml
Lorazepam	5.755	21884	573.26	58.9	97.62	4825	235.0349 ng/ml
Meprobamate	4.922	87965	643.81	25.1	609.18	17754	250.4758 ng/ml
Methadone	5.661	852610	2307.08	52.2	5095.68	158126	249.4975 ng/ml
Methamphetamine	3.255	767794	13246.00	42.7	1063.51	154951	250.4901 ng/ml
Metoprolol	4.340	295167	∞	95.4	∞	673595	255.7287 ng/ml
Mirtazapine	4.609	1808788	123024.50	48.9	12854.19	276121	233.2560 ng/ml
Mitragynine	5.214	149414	8847.33	39.2	18024.79	158126	265.8409 ng/ml
Morphine	1.266	56584	1035.25	21.4	5569.86	2282	247.1488 ng/ml
Norbuprenorphine	5.010	676	89.27	84.0	539.88	1320	26.2016 ng/ml
Nordiazepam	5.901	74759	2089.28	55.9	772.78	9496	260.8818 ng/ml
Norfentanyl	4.102	187340	1450.18	37.5	3496.01	352590	24.7144 ng/ml
Norhydrocodone	3.093	17780	245.73	40.8	245.88	28594	294.0057 ng/ml
Noroxycodone	2.943	291871	762.51	48.3	324.70	36034	250.2646 ng/ml
O-desmethyl-tramadol	3.394	3566413	200733.05	6.2	2401.80	792282	250.2395 ng/ml
Oxazepam	5.758	25844	77.94	66.1	73.11	6284	261.1910 ng/ml
Oxycodone	2.868	901818	4738.26	31.3	2633.48	159865	255.7079 ng/ml
Oxymorphone	1.423	184216	499.19	46.9	437.72	26505	257.6344 ng/ml
Phentermine	3.798	342445	3708.59	2.1	3552.49	179688	252.0171 ng/ml
Promethazine	5.548	525375	864.69	29.6	372.29	95324	249.9903 ng/ml
Quetiapine	5.517	1357829	139380.97	59.1	33560.03	74520	253.7944 ng/ml
Sertraline	5.784	76951	568.60	91.1	3301.31	13088	254.4065 ng/ml
Temazepam	5.825	289413	1037.06	30.4	876.30	63773	244.9698 ng/ml
Tramadol	4.260	3141847	∞	3.4	2027.55	673595	256.5949 ng/ml
Trazodone	5.045	873624	121223.32	79.2	7454.04	148502	244.9583 ng/ml
Venlafaxine	5.061	2269419	55615.88	36.9	9932.64	504598	246.9647 ng/ml
Zolpidem	4.824	3314724	1585.88	30.5	158529.53	635189	252.2971 ng/ml

TS



AM #28 Multi-Drug Quant. Results

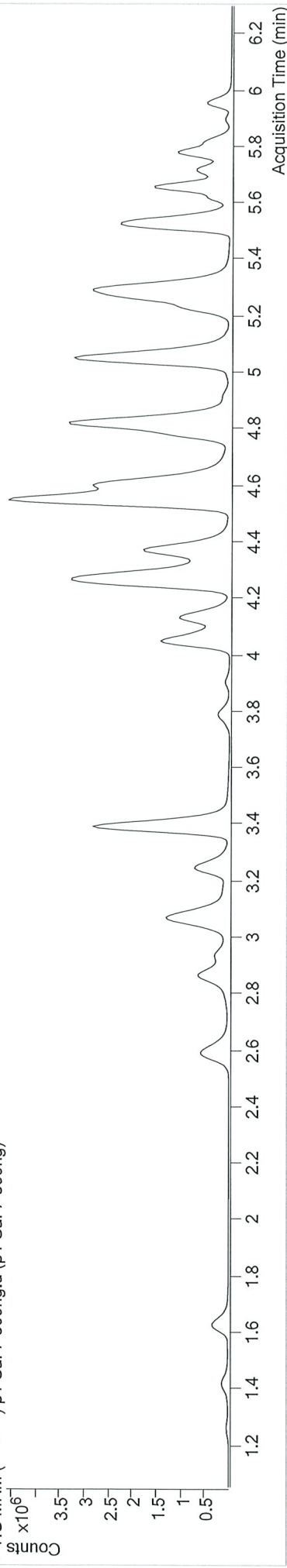
Batch results D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
Calibration Last Update 11/15/2019 8:07:03 AM

Instrument	Falco	Data File	p1 Cal 7-500ng.d
Type	Cal	Sample	p1 Cal 7-500ng
Acq. Method	MDQ P1 Combined 092319.m	Operator	
Sample Position	P1-G1	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 9:31:18 PM		

Sample Info.

Sample Chromatogram

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	55993	46906.54	72.5	18402.58	22140	50.8743 ng/ml
7-aminoclonazepam	4.271	377835	10290.29	81.5	13235.64	38028	427.9186 ng/ml
a-hydroxylprazolam	5.700	36893	1052.13	65.5	418.40	3805	517.3603 ng/ml
alpha-PVP	4.377	3160162	23872.43	50.4	71152.57	288185	496.5511 ng/ml
Alprazolam	5.784	1021406	3120.19	103.1	1354.76	49640	500.6966 ng/ml
Amphetamine	3.075	2565192	62588.37	54.4	69396.81	74527	417.5041 ng/ml
Benzoyllecgonine	3.907	122343	50662.00	7.9	679.03	9993	522.9115 ng/ml
Buprenorphine	5.652	51961	3083.28	16.1	2028.10	47189	46.7886 ng/ml
Bupropion	4.786	2052646	112101.47	57.7	24721.63	154351	506.7412 ng/ml
Carisoprodol	5.733	561533	27298.26	53.6	4199.83	54880	521.7057 ng/ml
Citalopram	5.236	1723098	15413.98	41.7	692.19	159878	498.0520 ng/ml
Clonazepam	5.614	126961	1218.75	33.5	1522.69	4889	517.0723 ng/ml
Cocaine	4.284	3142125	137561.45	45.1	63241.19	493143	494.7782 ng/ml
Codeine	2.610	334404	9091.22	100.4	92524.95	31909	509.1257 ng/ml
Cyclobenzaprine	5.631	764864	68361.49	10.1	524.54	54126	507.0589 ng/ml
Dextromethorphan	5.279	812171	39569.39	79.0	13038.06	74949	497.0580 ng/ml
Dextrophan	4.133	884122	∞	208.3	257217.04	238988	501.5238 ng/ml
Diazepam	5.961	616437	767.40	88.4	4425.53	63868	487.5077 ng/ml

p1 Cal 7-500ng



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	1001589	33035.70	68.1	25484.07	130768	463.7721 ng/ml
Diphenhydramine	5.306	3556285	305798.29	33.6	24344.87	562202	496.1743 ng/ml
Doxylamine	4.548	8437118	139930.88	97.1	223310.33	703084	501.2952 ng/ml
EDDP	5.271	3003621	83986.75	41.5	439.35	328152	505.1264 ng/ml
Fentanyl	5.086	79166	10419.89	72.3	∞	78673	50.2023 ng/ml
Fluoxetine	5.716	614269	9857.94	8.9	1352.22	54725	494.7665 ng/ml
Hydrocodone	3.045	947420	231.10	41.5	213.46	136545	473.4816 ng/ml
Hydromorphone	1.634	672837	∞	78.7	2341.71	51979	488.8915 ng/ml
Ketamine	4.053	2861413	155814.66	38.2	4982.75	283625	493.7765 ng/ml
Lamotrigine	4.295	195210	4138.29	78.6	19261.14	283625	333.8597 ng/ml
Lorazepam	5.755	52842	1282.62	56.9	528.34	4889	560.4494 ng/ml
Meprobamate	4.922	178909	39886.40	25.2	4022.77	18451	490.7418 ng/ml
Methadone	5.661	2225773	45119.14	51.0	1658.74	211571	486.4121 ng/ml
Methamphetamine	3.249	1716046	1762.79	43.1	1748.03	179118	485.5495 ng/ml
Metoprolol	4.340	549068	78403.13	95.9	∞	689061	465.6971 ng/ml
Mirtazapine	4.609	4121974	214817.92	49.1	8805.24	288185	508.1884 ng/ml
Mitragynine	5.214	395430	23203.07	39.6	18552.84	211571	526.3875 ng/ml
Morphine	1.260	118703	2179.72	21.3	257.25	2457	481.7980 ng/ml
Norbuprenorphine	5.003	1535	160.60	80.1	2855.16	1521	52.8175 ng/ml
Nordiazepam	5.901	148132	2510.00	59.3	1321.69	10120	485.5974 ng/ml
Norfentanyl	4.102	410794	50785.48	37.0	5619.82	373951	51.0870 ng/ml
Norhydrocodone	3.093	40143	577.86	40.8	228.75	29515	642.0360 ng/ml
Noroxycodone	2.936	602315	3204.11	47.6	2897.46	37407	497.8682 ng/ml
O-desmethyl-tramadol	3.394	7338107	117503.32	6.0	2385.97	807682	505.3113 ng/ml
Oxazepam	5.758	61798	∞	69.6	184.86	8109	482.5164 ng/ml
Oxycodone	2.868	1939659	15184.52	31.2	37282.14	178530	492.7138 ng/ml
Oxymorphone	1.417	377092	582.04	47.8	582.27	29372	476.3314 ng/ml
Phentermine	3.798	678105	5407.24	2.0	681.19	192804	465.7976 ng/ml
Promethazine	5.548	1861604	225999.41	29.8	24736.36	167486	503.9242 ng/ml
Quetiapine	5.517	3088895	291331.16	59.2	6602.21	89835	479.1314 ng/ml
Sertraline	5.784	300916	363.04	90.2	4533.47	26552	490.0097 ng/ml
Temazepam	5.825	619964	13362.13	29.0	465.40	66591	502.4902 ng/ml
Tramadol	4.260	6111719	167932.97	3.4	∞	689061	488.6919 ng/ml
Trazodone	5.038	2010698	5120.17	78.8	137037.08	178499	469.2285 ng/ml
Venlafaxine	5.054	4822787	4829.92	36.7	∞	531212	498.3566 ng/ml
Zolpidem	4.824	6883527	4439.62	30.2	2656.79	666458	499.5716 ng/ml

TS

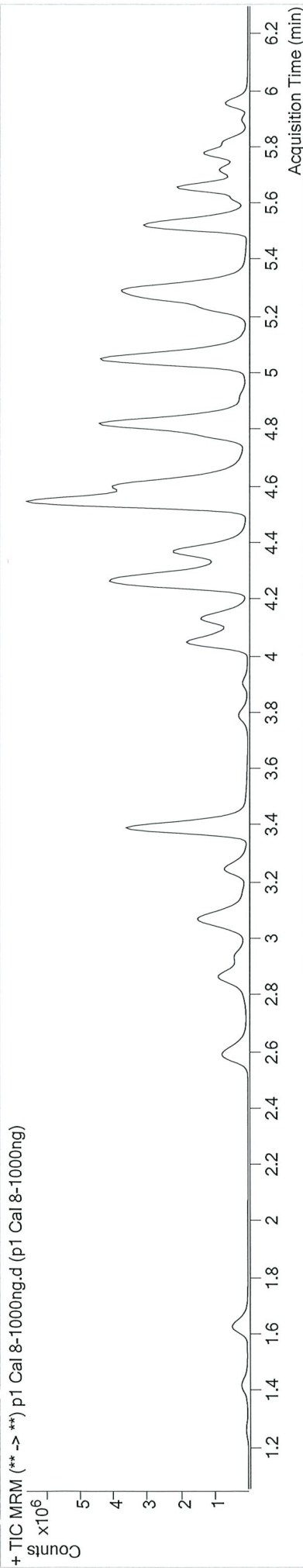


AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\11139 MDQ P1 and P2 TS\QuantResults\MDQ P1 wklist 3826 TS.batch.bin
11/15/2019 8:07:03 AM

Instrument	Falco	Data File	
Type	Cal	Sample	p1 Cal 8-1000ng.d
Acq. Method	MDQ P1 Combined 092319.m	Operator	p1 Cal 8-1000ng
Sample Position	P1-H1	Comment	
Injection Volume	2		
Acq. Date-Time	11/13/2019 9:41:52 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	82511	4731.82	70.6	78262.45	15572	106.6151 ng/ml
7-aminoclonazepam	4.271	433652	7963.67	81.1	17503.44	24613	759.6722 ng/ml
a-hydroxylprazolam	5.700	59724	891.88	66.7	217.59	2976	1070.5711 ng/ml
alpha-PVP	4.377	4043713	∞	49.9	84934.43	181781	1007.1612 ng/ml
Alprazolam	5.784	1403635	∞	103.8	1378.24	34403	993.2224 ng/ml
Amphetamine	3.081	2872420	31079.26	53.3	112522.71	43669	799.1314 ng/ml
Benzoyllecgonine	3.907	219052	1905.35	7.6	249.52	8495	1103.1996 ng/ml
Buprenorphine	5.652	68124	3065.98	16.1	10491.04	30222	95.7706 ng/ml
Bupropion	4.786	2214114	232580.66	57.4	64240.74	86223	979.5359 ng/ml
Carisoprodol	5.733	849286	18445.12	53.5	4783.87	43318	999.6542 ng/ml
Citalopram	5.236	2330974	21571.11	41.0	500.50	107148	1005.2275 ng/ml
Clonazepam	5.614	194394	4214.91	34.1	∞	4018	964.4038 ng/ml
Cocaine	4.284	4294679	123598.74	44.1	128223.37	331626	1005.8329 ng/ml
Codeine	2.610	447446	3139.62	102.7	757.23	22433	970.4249 ng/ml
Cyclobenzaprine	5.631	727370	29792.22	10.0	1054.11	25654	1017.6064 ng/ml
Dextromethorphan	5.285	1025963	20355.69	79.6	42645.78	46993	1001.5502 ng/ml
Dextrophan	4.133	1231990	54198.09	211.5	198552.00	167368	998.1853 ng/ml
Diazepam	5.961	873010	11348.53	87.4	844.91	44674	987.3794 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	1386150	28263.96	67.1	78755.20	97409	862.4605 ng/ml
Diphenhydramine	5.306	4866250	532975.88	33.4	1491.46	377110	1011.9312 ng/ml
Doxylamine	4.548	12367014	309916.99	96.9	77164.13	514811	1003.4546 ng/ml
EDDP	5.278	4425666	1054.33	42.1	948.19	240897	1014.0238 ng/ml
Fentanyl	5.086	89877	552.34	72.4	512.15	43791	102.3009 ng/ml
Fluoxetine	5.716	446350	11059.43	9.1	∞	19437	1011.7476 ng/ml
Hydrocodone	3.045	1329532	251.95	41.2	277.20	92763	978.3943 ng/ml
Hydromorphone	1.634	996617	∞	73.3	∞	37179	1012.6749 ng/ml
Ketamine	4.053	3868705	31028.83	38.4	11762.57	195952	966.6606 ng/ml
Lamotrigine	4.295	237387	3642.57	79.7	21942.53	195952	588.7753 ng/ml
Lorazepam	5.755	87543	715.21	57.5	339.63	4018	1130.2138 ng/ml
Meprobamate	4.922	282147	88810.28	24.7	15912.97	14635	976.2426 ng/ml
Methadone	5.661	3106652	110145.89	50.2	7894.40	140676	1020.6227 ng/ml
Methamphetamine	3.249	1643806	3334.65	42.5	5970.66	89743	929.5190 ng/ml
Metoprolol	4.340	719612	194571.00	96.6	6833.39	477238	881.9789 ng/ml
Mirtazapine	4.609	6110263	12576.78	48.3	25551.27	181781	1192.9905 ng/ml
Mitragynine	5.214	478753	∞	39.3	∞	140676	958.9481 ng/ml
Morphine	1.266	174453	864.09	21.1	3424.99	1783	975.7627 ng/ml
Norbuprenorphine	5.003	2574	77.85	82.6	∞	1378	98.7984 ng/ml
Nordiazepam	5.901	220517	8227.73	57.9	6503.49	7115	1028.7976 ng/ml
Norfentanyl	4.102	626191	67440.82	36.9	3042.19	275814	105.5720 ng/ml
Norhydrocodone	3.093	58183	274.74	39.8	256.19	20150	1362.0054 ng/ml
Noroxycodone	2.936	816032	1799.17	47.6	823.05	26512	952.0703 ng/ml
O-desmethyl-tramadol	3.394	10154045	323557.00	6.0	25755.89	554159	1019.3524 ng/ml
Oxazepam	5.758	103585	333.63	70.9	1545.27	6646	984.9123 ng/ml
Oxycodone	2.861	2803196	∞	31.3	1777.55	130137	977.1088 ng/ml
Oxymorphone	1.423	565291	∞	47.3	∞	21771	963.8855 ng/ml
Phentermine	3.798	801686	∞	2.0	1105.71	117380	905.3264 ng/ml
Promethazine	5.548	1794639	3385.25	29.6	54402.47	81371	999.6918 ng/ml
Quetiapine	5.517	4610363	10897.49	58.9	3574.27	66236	970.1624 ng/ml
Sertraline	5.784	175867	∞	92.0	1316.62	7498	1013.6418 ng/ml
Temazepam	5.825	931288	4217.58	29.2	8816.43	48232	1042.0808 ng/ml
Tramadol	4.253	8211887	∞	3.4	5801.95	477238	948.8459 ng/ml
Trazodone	5.038	3061025	169580.23	79.2	∞	170832	746.5203 ng/ml
Venlafaxine	5.054	6865801	300695.98	36.5	76818.71	373619	1008.5446 ng/ml
Zolpidem	4.824	9835285	1675.84	30.2	58862.48	492124	966.8675 ng/ml

25