REVIEWED
By Sarah Pickle at 10:41 am, Sep 12, 2019

TS

8/30/2019

Worklist: 3645

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2019-3066	1	162134	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
M2019-3336	1	162135	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
M2019-3336	3	162136	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
M2019-3511	2	162137	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
M2019-3580	2	162138	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2297	1	162139	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2308	1	162140	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2335	1	162141	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2336	1	162142	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2339	1	162143	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2340	1	162144	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2341	1	162145	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2342	1	162146	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2349	1	162147	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2395	1	162148	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2396	1	162149	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2397	1	162150	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2398	1	162151	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2399	2	162152	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2409	1	162153	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2443	1	162154	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(
P2019-2491	1	162155	AM 28 Blood Multi-Drug Quant Panel 1 by LC-Q(

TS

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

Extraction Date: 09/03/19
Plate lot#: Item #:IDP-111 Lot:190729

Analyst: Tamara Salazar
Plate Expiration: 01/29/20

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide
Blank Blood Lot: 445283-1
LCMS-QQQ ID: 069901

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water
Column: Agilent 120 EC-C18 (2.1x 100-4um)

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 00.5M ammonium hydroxide** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). ***(Load at 85-100 PSI- Selector to the right)*** *Manifold ID: 067104*
☒ 8. Wait 5 minutes.
☒ 9. Add **900uL ethyl acetate.**
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 12. Add **900uL ethyl acetate.**
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID: 067103*
☒ 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
Worklist path: *D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects*
Batch Name: *MDQ wklst3645 TS*
☒ 2. Make necessary changes to integration limits
☒ 3. Integration linear and R^2 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: *Samples were initially extracted and injected on 09/03/19. However, due to retention time shifts and poor peak shapes, the data was determined to be unusable. The source of the issue was found to be a faulty column. As the lab did not possess a column of the same item number, an equivalent column was installed. The samples were kept under refrigeration and reinjected on 09/10/19.*

TS

Curves Limited: Benzoylecgonine 5-100, Buprenorphine 0.5-50(QC 10 not evaluated as qualifier peak is cut off), Lorazepam 25-1000, Metoprolol 5-500, Mirtazapine 5-100, Norhydrocodone 10-1000, Oxazepam 25-1000 (qualitative only)

QC 10s not evaluated: Buprenorphine—qualifier peak cutting off, Fluoxetine QC –peak cutting off

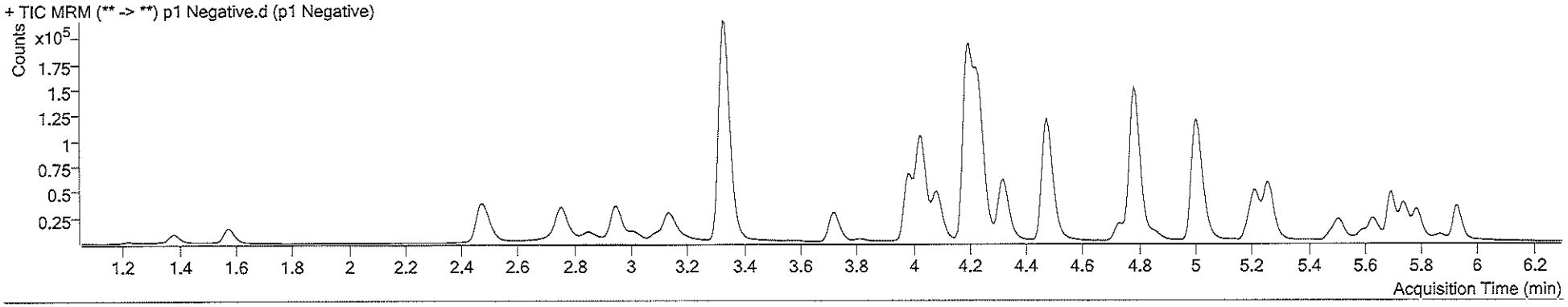
Not evaluated: Norbuprenorphine

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 12:30:29 PM

Instrument	Falco	**Data File**	p1 Negative.d
Type	Sample	**Sample**	p1 Negative
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-D11	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 1:37:49 PM		
Sample Info.			

Sample Chromatogram

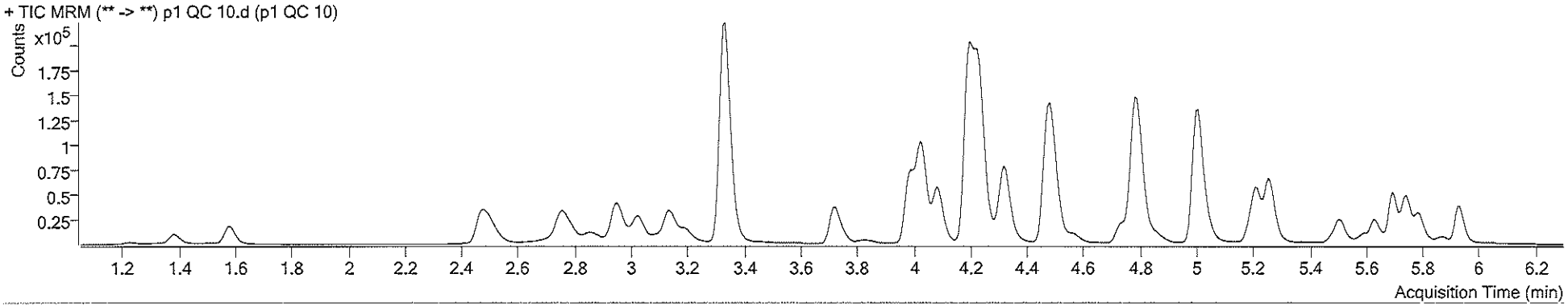


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update 9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 QC 10.d
Type	QC	**Sample**	p1 QC 10
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-H11	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 11:42:45 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	690	4751.98	73.7	319.47	14648	1.1080 ng/ml
7-aminoclonazepam	4.217	8178	177.81	80.3	326.58	34443	10.2823 ng/ml
a-hydroxyalprazolam	5.666	665	55.68	80.9	112.67	3498	10.2793 ng/ml
alpha-PVP	4.330	33720	4006.71	47.6	2652.97	151717	9.7570 ng/ml
Alprazolam	5.742	18512	164.44	109.0	418.41	57766	10.6749 ng/ml
Amphetamine	3.034	39487	1067.19	55.7	258.44	43005	10.1844 ng/ml
Benzoylecgonine	3.840	3408	855.99	7.7	204.10	6443	12.7303 ng/ml
~~Buprenorphine~~	~~5.692~~	~~126~~	~~4.45 Low~~	~~5.7 Low~~	~~20.65~~	~~3356~~	~~1.2323 ng/ml~~ QC not evaluated. TS
Bupropion	4.752	12205	∞	59.2	346.71	45285	9.7107 ng/ml
Carisoprodol	5.705	14586	569.92	57.1	62.01	70474	10.2437 ng/ml
Citalopram	5.195	8672	167.29	42.6	327.03	39880	10.2996 ng/ml
Clonazepam	5.579	1796	508.86	30.2	1945.29	3147	10.1609 ng/ml
Cocaine	4.230	36625	414.88	44.8	2091.92	299326	9.8715 ng/ml
Codeine	2.529	5390	∞	113.0	305.60	25395	9.9228 ng/ml
Cyclobenzaprine	5.603	2998	281.19	11.2	17.47	11606	11.5541 ng/ml
Dextromethorphan	5.231	3432	201.17	81.3	585.59	14218	10.8462 ng/ml
Dextrorphan	4.086	8739	2390.43	202.8	677.69	107959	10.3553 ng/ml
Diazepam	5.934	12767	241.68	88.7	350.53	58493	10.3428 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.501	15113	645.22	64.7	1144.75	85048	10.4124	ng/ml
Diphenhydramine	5.265	19382	353.60	30.9	562.96	125758	10.5017	ng/ml
Doxylamine	4.494	72541	86839.44	100.4	357.85	323549	9.6168	ng/ml
EDDP	5.216	15686	2396.06	40.7	438.70	82031	10.3380	ng/ml
Fentanyl	5.052	329	13.38	80.9	∞	13957	1.3239	ng/ml
~~Fluoxetine~~	~~5.701~~	~~3538~~	~~175.11~~	~~12.6 High~~	~~∞~~	~~11529~~	~~12.6222~~	~~ng/ml~~ QC not evaluated. D
Hydrocodone	2.978	12118	353.11	37.1	109.14	75412	10.1667	ng/ml
Hydromorphone	1.587	9615	684.28	74.7	331.59	35871	9.8849	ng/ml
Ketamine	4.006	36119	11595.84	37.8	568.30	160321	10.1643	ng/ml
Lamotrigine	4.261	2683	251.15	77.9	1863.80	160321	10.4683	ng/ml
~~Lorazepam~~	~~5.720~~	~~504~~	~~13.83~~	~~34.4 Low~~	~~0.60 Low~~	~~3147~~	~~6.1481~~	~~ng/ml~~ outside curve range. D
Meprobamate	4.881	3292	119.56	29.2	109.41	16807	9.5729	ng/ml
Methadone	5.634	7564	109.59	54.0	74.39	34727	10.5320	ng/ml
Methamphetamine	3.195	25073	88.02	41.7	84.72	84480	10.9517	ng/ml
Metoprolol	4.292	9088	∞	94.7	1035.23	428752	9.4227	ng/ml
Mirtazapine	4.569	12469	961.60	50.4	1535.31	151717	3.9292	ng/ml
Mitragynine	5.173	782	1868.57	40.1	∞	34727	9.3790	ng/ml
Morphine	1.233	1690	1289.20	21.4	404.52	2221	9.8483	ng/ml
Nordiazepam	5.874	2513	8829.90	57.6	126.07	7025	11.4194	ng/ml
Norfentanyl	4.054	5023	406.59	38.8	72.97	234430	0.9460	ng/ml
Norhydrocodone	3.032	337	∞	24.3	1348.22	18070	9.2324	ng/ml
Noroxycodone	2.876	7836	198.50	46.9	140.99	24029	9.9199	ng/ml
O-desmethyl-tramadol	3.334	99826	8344.73	6.0	742.70	509536	10.1538	ng/ml
~~Oxazepam~~	~~5.723~~	~~623~~	~~∞~~	~~162.0 High~~	~~3.11 Low~~	~~4215~~	~~6.4506~~	~~ng/ml~~ outside curve range. D
Oxycodone	2.787	24626	369.29	30.7	460.15	111061	10.2438	ng/ml
Oxymorphone	1.390	6113	390.97	44.1	313.63	22252	10.2178	ng/ml
Phentermine	3.758	9385	46.74	3.1	16.21	104711	9.9692	ng/ml
Promethazine	5.513	5496	546.50	33.7	56.65	21343	11.7394	ng/ml
Quetiapine	5.503	13611	529.40	54.3	12078.40	16481	11.5384	ng/ml
Sertraline	5.763	1909	76.42	106.2	66.39	6688	12.7951	ng/ml
Temazepam	5.797	7866	137.30	31.3	9.16 Low	42337	10.1321	ng/ml
Tramadol	4.206	88750	871.75	3.4	454.39	428752	10.5495	ng/ml
Trazodone	5.045	8276	4379.33	77.1	18493.04	32333	11.3652	ng/ml
Venlafaxine	5.007	53398	10530.43	35.6	336.11	267074	10.1642	ng/ml
Zolpidem	4.804	74629	2988.44	32.7	875.01	355707	10.1503	ng/ml

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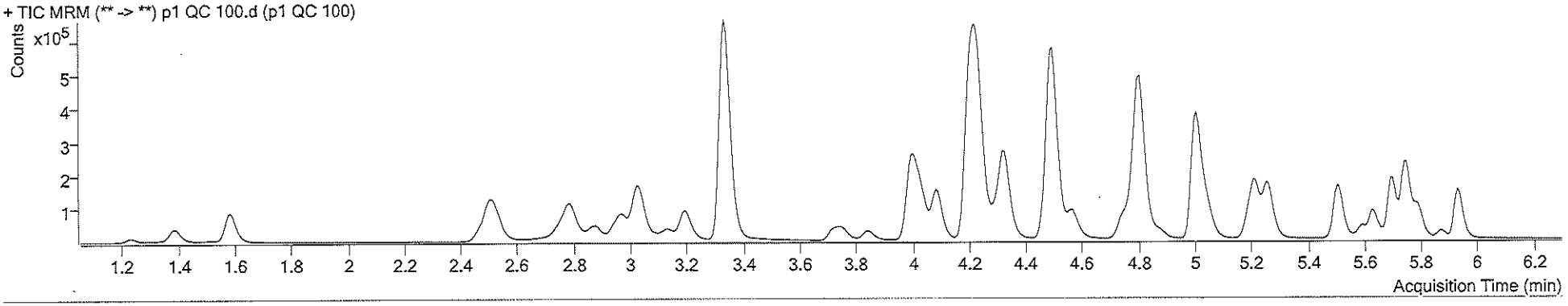
AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 QC 100.d
Type	QC	**Sample**	p1 QC 100
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-G11	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 12:03:39 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	7645	536.67	72.4	1543.30	17984	9.7887 ng/ml
7-aminoclonazepam	4.217	87832	1684.44	82.2	211.41	39557	102.5506 ng/ml
a-hydroxyalprazolam	5.666	7120	186.34	67.6	139.26	4348	93.8434 ng/ml
alpha-PVP	4.330	341556	1658.61	47.0	1531.33	157714	97.6150 ng/ml
Alprazolam	5.749	204460	1389.04	110.0	2763.64	64652	96.5392 ng/ml
Amphetamine	3.034	309090	3660.98	55.9	3379.42	36607	102.0596 ng/ml
Benzoylecgonine	3.840	42313	731.93	7.5	838.67	7981	134.0498 ng/ml
Buprenorphine	5.699	1235	1008.97	16.4	1129.12	3795	11.4957 ng/ml
Bupropion	4.752	118380	21038.09	58.2	2638.85	45856	100.9452 ng/ml
Carisoprodol	5.705	162782	891.41	56.3	1315.98	82637	99.3677 ng/ml
Citalopram	5.195	103990	323.23	44.0	∞	50949	97.6628 ng/ml
Clonazepam	5.579	21984	964.61	32.2	555.41	4127	95.6979 ng/ml
Cocaine	4.230	389825	24874.40	43.5	18971.65	324438	94.9337 ng/ml
Codeine	2.529	59313	822.44	107.1	2772.62	28115	101.2743 ng/ml
Cyclobenzaprine	5.603	42568	193782.32	11.9	307.24	19704	97.2306 ng/ml
Dextromethorphan	5.224	38028	2702.18	81.8	3634.93	17250	103.1656 ng/ml
Dextrorphan	4.086	85896	10055.55	201.2	8801.17	109415	103.1088 ng/ml
Diazepam	5.934	143525	5824.25	86.7	3178.58	69341	100.9804 ng/ml

AM #28 Multi-Drug Quant. Results

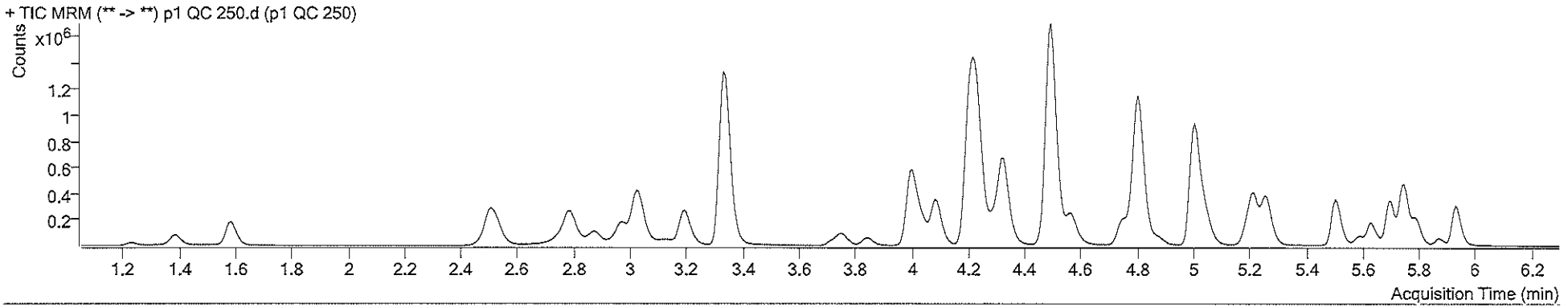
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.501	171096	6990.89	66.6	1855.01	100901	106.8405	ng/ml
Diphenhydramine	5.265	193074	2957.74	31.7	586.17	136613	97.4090	ng/ml
Doxylamine	4.494	719778	28662.64	99.5	16071.56	331869	97.2644	ng/ml
EDDP	5.216	148345	23067.67	41.8	1475.51	83183	97.1819	ng/ml
Fentanyl	5.045	3878	500.06	68.6	8254.42	20499	10.4660	ng/ml
Fluoxetine	5.701	48236	2460.06	8.3	796.77	20671	98.9876	ng/ml
Hydrocodone	2.978	133619	340.13	37.4	3550.32	84801	103.9565	ng/ml
Hydromorphone	1.587	114291	1055.00	79.4	621.51	44864	96.4639	ng/ml
Ketamine	3.999	387202	23635.65	37.8	506.42	179083	102.6486	ng/ml
Lamotrigine	4.261	29811	5174.15	79.7	1151.80	179083	112.6673	ng/ml
Lorazepam	5.720	5656	232.59	52.6	9.28 Low	4127	86.9318	ng/ml
Meprobamate	4.881	38104	61727.29	27.2	4616.20	20207	97.4259	ng/ml
Methadone	5.634	88775	1310.29	52.6	490.10	42525	102.1226	ng/ml
Methamphetamine	3.195	182357	578.72	42.3	386.22	77291	99.7199	ng/ml
Metoprolol	4.292	93337	33380.93	93.5	7737.73	472014	96.9131	ng/ml
Mirtazapine	4.569	134444	46386.88	49.3	9035.04	157714	51.9900	ng/ml
Mitragynine	5.173	10016	7567.31	40.6	8913.38	42525	100.8833	ng/ml
Morphine	1.233	22253	785.76	20.1	291.43	2825	106.1328	ng/ml
~~Norbuprenorphine~~	~~4.949~~	~~75~~	~~107.76~~	~~70.1 Low~~	~~198.00~~	~~290~~	~~13.8448~~	~~ng/ml~~ Compound not evaluated.
Nordiazepam	5.874	27355	∞	57.2	3016.95	8593	107.1566	ng/ml
Norfentanyl	4.054	55678	82715.61	36.5	698.97	262897	9.6955	ng/ml
Norhydrocodone	3.032	5373	219.99	29.2	234.03	21617	79.8059	ng/ml
Noroxycodone	2.876	87584	642.68	47.0	741.32	27936	99.0356	ng/ml
O-desmethyl-tramadol	3.334	1159055	35434.72	6.1	1545.36	609741	101.2171	ng/ml
Oxazepam	5.730	7519	45.73	67.9	24.12	4618	102.9225	ng/ml
Oxycodone	2.787	275729	3032.27	30.6	2420.63	128355	103.7504	ng/ml
Oxymorphone	1.383	66519	387.00	46.0	1152.48	25865	97.2252	ng/ml
Phentermine	3.758	81901	337.53	2.8	∞	95872	103.5479	ng/ml
Promethazine	5.513	80229	2865.97	29.5	457.49	37263	99.8573	ng/ml
Quetiapine	5.503	162493	20394.66	55.9	354732.14	22105	104.9974	ng/ml
Sertraline	5.763	24467	660.47	95.5	342.08	12107	89.7902	ng/ml
Temazepam	5.797	97781	907.81	32.1	273.52	52031	104.3938	ng/ml
Tramadol	4.206	922720	4068.40	3.4	1531.34	472014	106.8699	ng/ml
Trazodone	5.045	105245	19040.74	74.6	13519.17	44286	92.1370	ng/ml
Venlafaxine	5.007	529710	2563.16	35.4	934.42	275584	99.2710	ng/ml
Zolpidem	4.804	841193	54402.40	32.7	∞	416217	100.8941	ng/ml

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 QC 250.d
Type	QC	**Sample**	p1 QC 250
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-F11	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 12:24:34 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	21076	598.87	74.2	∞	19147	25.3057 ng/ml
7-aminoclonazepam	4.217	192860	5659.86	80.9	721.42	35395	252.7703 ng/ml
a-hydroxyalprazolam	5.666	17290	474.35	68.2	612.51	3900	255.2474 ng/ml
alpha-PVP	4.330	987985	4118.90	48.3	32413.22	182627	244.2784 ng/ml
Alprazolam	5.749	465608	3266.48	108.1	4169.70	59807	236.2032 ng/ml
Amphetamine	3.028	812522	10102.08	55.8	6487.00	39642	249.2134 ng/ml
~~Benzoylecgonine~~	~~3.840~~	~~93549~~	~~1123.60~~	~~7.4~~	~~294.36~~	~~7451~~	~~318.4423 ng/ml~~ Outside curve range. TS
Buprenorphine	5.692	2540	186.88	17.1	1047.58	3789	23.7887 ng/ml
Bupropion	4.752	325715	1502.68	57.7	28040.15	49692	257.7276 ng/ml
Carisoprodol	5.705	376426	2723.28	56.2	616.16	74633	254.7686 ng/ml
Citalopram	5.195	253509	617.75	44.0	643.14	49371	245.8722 ng/ml
Clonazepam	5.579	54625	2803.62	32.1	58404.92	4174	235.2752 ng/ml
Cocaine	4.230	1073810	134388.60	44.4	∞	351857	240.7761 ng/ml
Codeine	2.529	145532	7952.40	105.6	1167.81	27214	257.1687 ng/ml
Cyclobenzaprine	5.603	80701	259921.40	11.9	412.07	15228	238.6246 ng/ml
Dextromethorphan	5.224	90314	∞	83.9	175477.64	16779	252.6287 ng/ml
Dextrorphan	4.086	246031	7438.49	206.3	2296.09	125284	258.3856 ng/ml
Diazepam	5.934	333972	724.29	88.6	∞	64149	254.5120 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.501	422391	41197.28	66.4	5743.76	102922	259.8289	ng/ml
Diphenhydramine	5.265	543502	927.07	31.7	14531.49	151673	247.1881	ng/ml
Doxylamine	4.494	2270462	200186.67	99.2	127427.05	407166	250.8386	ng/ml
EDDP	5.216	430566	7190.39	41.6	13358.87	94428	248.6237	ng/ml
Fentanyl	5.045	7841	8257.14	70.4	24899.53	16883	25.6584	ng/ml
Fluoxetine	5.695	78594	691.89	8.5	∞	13593	245.9465	ng/ml
Hydrocodone	2.971	353932	∞	39.4	∞	92315	253.6440	ng/ml
Hydromorphone	1.587	274675	850.72	75.5	1876.36	42064	247.7285	ng/ml
Ketamine	4.006	1018645	59492.42	38.2	1839.16	189635	255.9022	ng/ml
Lamotrigine	4.261	75123	3429.45	80.8	4858.66	189635	269.4337	ng/ml
Lorazepam	5.720	13556	912.33	56.5	49.81	4174	212.2398	ng/ml
Meprobamate	4.881	93170	59967.50	26.8	4821.87	19304	250.3318	ng/ml
Methadone	5.634	211905	98138.69	53.2	13609.96	42699	242.9589	ng/ml
Methamphetamine	3.195	557456	2115.93	42.8	1237.11	94621	251.7326	ng/ml
Metoprolol	4.292	257677	∞	93.0	7933.23	511682	248.4819	ng/ml
~~Mirtazapine~~	~~4.569~~	~~366779~~	~~98519.93~~	~~49.2~~	~~9196.15~~	~~182627~~	~~124.1116~~	~~ng/ml~~ outside curve range. D
Mitragynine	5.173	25484	44562.57	36.4	60840.51	42699	256.0658	ng/ml
Morphine	1.233	51548	820.02	20.6	236.90	2756	252.5660	ng/ml
~~Norbuprenorphine~~	~~4.949~~	~~127~~	~~634.51~~	~~99.0~~	~~809.11~~	~~327~~	~~20.7995~~	~~ng/ml~~ Not evaluated. TD
Nordiazepam	5.874	66812	31049.38	56.6	931.63	8482	266.1862	ng/ml
Norfentanyl	4.054	155519	23626.13	37.1	2564.00	289392	24.6618	ng/ml
Norhydrocodone	3.032	20490	∞	28.4	166.06	25563	249.5894	ng/ml
Noroxycodone	2.876	233468	2262.75	46.4	891.41	29092	254.1666	ng/ml
O-desmethyl-tramadol	3.334	2952368	99026.10	6.3	1675.67	615059	256.0660	ng/ml
Oxazepam	5.730	17848	138.69	66.4	52.36	4601	249.5793	ng/ml
Oxycodone	2.787	724241	3090.74	30.4	2338.59	134526	260.7962	ng/ml
Oxymorphone	1.383	160708	1505.10	47.1	∞	24304	250.2708	ng/ml
Phentermine	3.758	236983	1360.25	2.6	173.81	113690	254.1010	ng/ml
Promethazine	5.513	150698	754.89	30.1	1379.50	29010	241.2506	ng/ml
Quetiapine	5.503	417733	5503.40	53.9	1039517.10	21442	278.7486	ng/ml
Sertraline	5.763	40209	1512.52	93.1	437.85	7962	224.1757	ng/ml
Temazepam	5.797	236403	1961.07	32.2	580.10	51085	257.3732	ng/ml
Tramadol	4.206	2497482	12341.01	3.5	2995.94	511682	268.1184	ng/ml
Trazodone	5.045	254418	28214.54	75.3	243613.82	41350	235.9782	ng/ml
Venlafaxine	5.007	1611271	4683.27	35.8	1773.34	331719	251.1382	ng/ml
Zolpidem	4.804	2213219	58273.20	32.5	87867.52	427662	258.9167	ng/ml

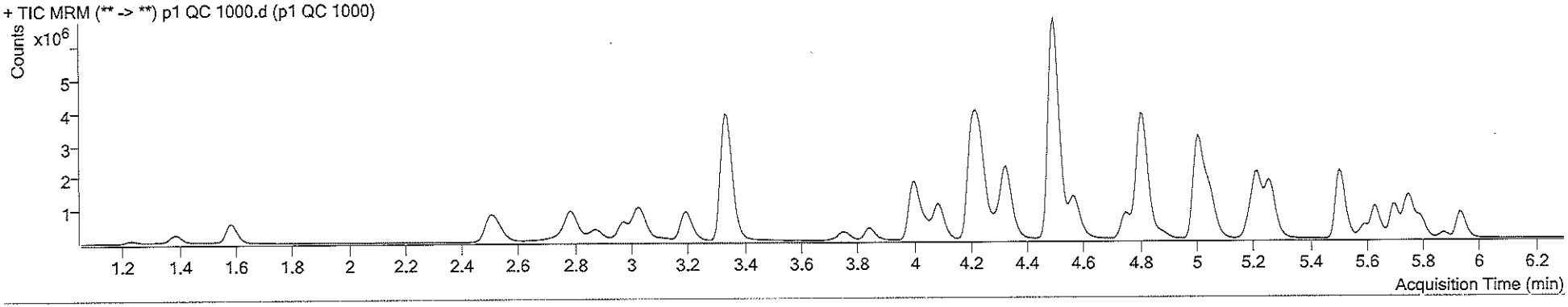
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update 9/11/2019 11:38:29 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 082219.m
Sample Position P2-E11
Injection Volume 1
Acq. Date-Time 9/10/2019 12:45:29 PM
Sample Info.

Data File p1 QC 1000.d
Sample p1 QC 1000
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
6-MAM	3.103	85106	677.34	74.2	6106.56	19594	99.7839	ng/ml
7-aminoclonazepam	4.224	458622	7419.21	76.3	27142.59	25100	849.4467	ng/ml
a-hydroxyalprazolam	5.666	67416	2194.32	70.4	611.76	3987	975.7494	ng/ml
alpha-PVP	4.330	3711238	69190.34	49.0	2376.16	171640	977.2046	ng/ml
Alprazolam	5.749	1420569	∞	107.9	3519.31	43665	983.9205	ng/ml
Amphetamine	3.028	2102326	22614.79	55.0	34953.62	26448	969.4661	ng/ml
~~Benzoylecgonine~~	~~3.840~~	~~572393~~	~~969.34~~	~~7.4~~	~~18018.32~~	~~7859~~	~~1850.5836~~	~~ng/ml~~
~~Buprenorphine~~	~~5.692~~	~~9853~~	~~466.14~~	~~14.8~~	~~3762.49~~	~~4803~~	~~73.0147~~	~~ng/ml~~
Bupropion	4.752	1402786	4991.41	57.9	1500.25	54009	1023.9981	ng/ml
Carisoprodol	5.705	1117858	2394.89	55.3	641.19	56129	1006.6449	ng/ml
Citalopram	5.195	1417109	1831.25	43.1	4127.51	67818	1000.9268	ng/ml
Clonazepam	5.579	223935	69933.37	31.9	∞	4241	949.6702	ng/ml
Cocaine	4.230	3576787	228106.53	44.2	430123.24	287749	979.9917	ng/ml
Codeine	2.529	452471	3554.88	104.2	20619.96	21219	1026.3049	ng/ml
Cyclobenzaprine	5.603	651758	1669016.67	11.8	1452.11	29434	997.3250	ng/ml
Dextromethorphan	5.231	526607	5286.58	82.2	2954.94	24900	994.0705	ng/ml
Dextrorphan	4.093	889744	128399.83	206.7	2081.55	113758	1030.0204	ng/ml
Diazepam	5.934	1046905	1673.54	87.4	9017.77	52239	980.6896	ng/ml

Outside curve range TS
Outside curve range.

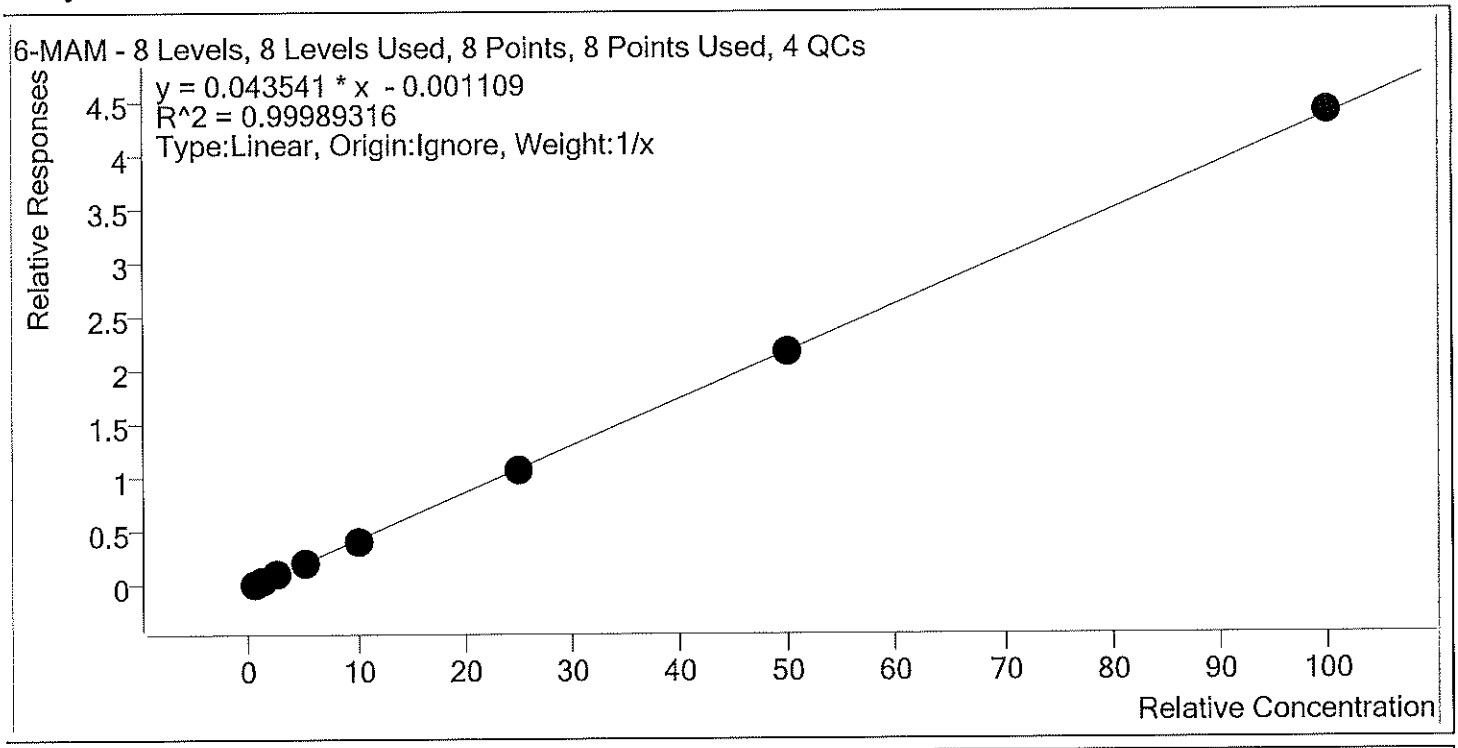
AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.501	1368113	101748.93	67.8	19529.97	102817	844.4010	ng/ml
Diphenhydramine	5.265	2936071	96729.12	32.0	1633.25	199664	1014.8031	ng/ml
Doxylamine	4.494	9757478	1021401.71	96.6	∞	442728	992.8495	ng/ml
EDDP	5.216	2505277	97484.13	42.7	819.00	140282	974.0363	ng/ml
Fentanyl	5.045	52492	399.99	74.4	68123.30	26784	108.2005	ng/ml
Fluoxetine	5.695	557955	847.61	8.7	6791.35	24178	982.9783	ng/ml
Hydrocodone	2.971	1330521	∞	39.0	∞	91850	959.6926	ng/ml
Hydromorphone	1.587	977019	∞	75.9	1267.50	38370	966.8593	ng/ml
Ketamine	4.006	3667164	20643.44	37.7	1478.43	183041	956.0636	ng/ml
Lamotrigine	4.261	239930	49395.66	82.0	54602.34	183041	893.7267	ng/ml
Lorazepam	5.720	57510	1180.68	52.1	311.87	4241	900.6867	ng/ml
Meprobamate	4.881	346949	23495.75	26.6	575.25	18424	978.4900	ng/ml
Methadone	5.634	1367803	2932.16	52.5	3140.99	67724	989.1833	ng/ml
Methamphetamine	3.195	1934944	6485.46	43.5	9757.57	90497	918.3776	ng/ml
~~Metoprolol~~	~~4.292~~	~~757415~~	~~∞~~	~~95.3~~	~~∞~~	~~468050~~	~~800.8700~~	~~ng/ml~~ Outside curve range. TD
~~Mirtazapine~~	~~4.569~~	~~2138373~~	~~967106.95~~	~~49.4~~	~~30802.63~~	~~171640~~	~~776.1389~~	~~ng/ml~~ Outside curve range. TD
Mitragynine	5.173	164763	214483.56	37.0	10806.24	67724	1044.7028	ng/ml
Morphine	1.233	180340	5872.19	20.9	1811.37	2621	930.2745	ng/ml
~~Norbuprenorphine~~	~~4.956~~	~~775~~	~~1261.44~~	~~84.6~~	~~2164.54~~	~~395~~	~~105.1288~~	~~ng/ml~~ Not evaluated TD
Nordiazepam	5.874	242312	4191.10	56.5	3738.36	8022	1022.7176	ng/ml
Norfentanyl	4.054	674888	86833.58	37.4	10600.06	299155	103.6534	ng/ml
Norhydrocodone	3.032	94400	1929.04	32.5	989.14	24821	1171.0882	ng/ml
Noroxycodone	2.876	840821	2934.85	46.3	337.68	27945	954.1302	ng/ml
O-desmethyl-tramadol	3.334	10433575	252932.63	6.4	27886.56	545796	1020.6919	ng/ml
Oxazepam	5.730	67819	2094.10	71.4	432.52	4668	943.5107	ng/ml
Oxycodone	2.780	2785800	18033.80	30.4	3859.86	132047	1023.5040	ng/ml
Oxymorphone	1.383	591067	∞	45.6	∞	24502	913.5561	ng/ml
Phentermine	3.758	766702	5984.58	2.6	641.61	105424	889.0352	ng/ml
Promethazine	5.513	1272609	6529.81	30.9	5405.01	58293	1014.6300	ng/ml
Quetiapine	5.503	2380908	∞	56.4	2937818.87	34989	974.3529	ng/ml
Sertraline	5.763	276677	1159.41	92.4	28554.95	12001	1022.9526	ng/ml
Temazepam	5.797	885777	8976.14	31.5	4583.30	47231	1043.6825	ng/ml
Tramadol	4.206	8256386	220228.70	3.6	2501.66	468050	971.2382	ng/ml
Trazodone	5.045	1788226	321709.60	76.6	6975625.96	64618	1055.7302	ng/ml
Venlafaxine	5.007	6374065	277377.04	34.9	108318.71	325539	1012.8892	ng/ml
Zolpidem	4.804	8436967	349513.32	31.8	2750.31	433863	973.8999	ng/ml

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	6-MAM
Internal Standard	6-MAM-D6



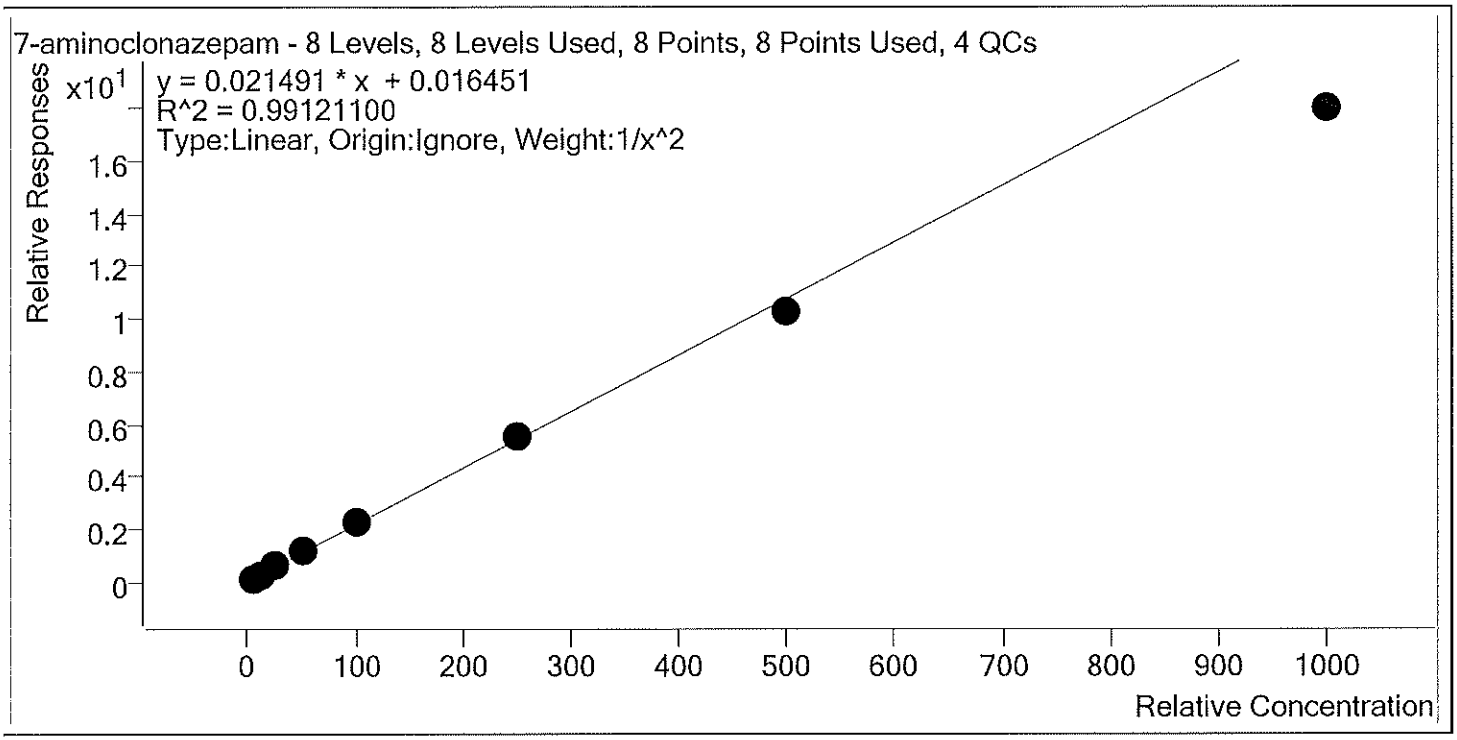
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	0.5	0.5	106.6
p1 Cal 2- 10ng_r	2	✓	1.0	1.0	98.9
p1 Cal 3 -25ng_r	3	✓	2.5	2.5	99.4
p1 Cal 4-50ng	4	✓	5.0	4.9	97.9
p1 Cal 5-100ng	5	✓	10.0	9.8	98.0
p1 Cal 6-250ng	6	✓	25.0	24.7	98.7
p1 Cal 7-500ng	7	✓	50.0	49.9	99.7
p1 Cal 8-1000ng	8	✓	100.0	100.8	100.8

Generated at 11:51 AM on 9/11/2019

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	7-aminoclonazepam
Internal Standard	7-Aminoclonazepam-D4

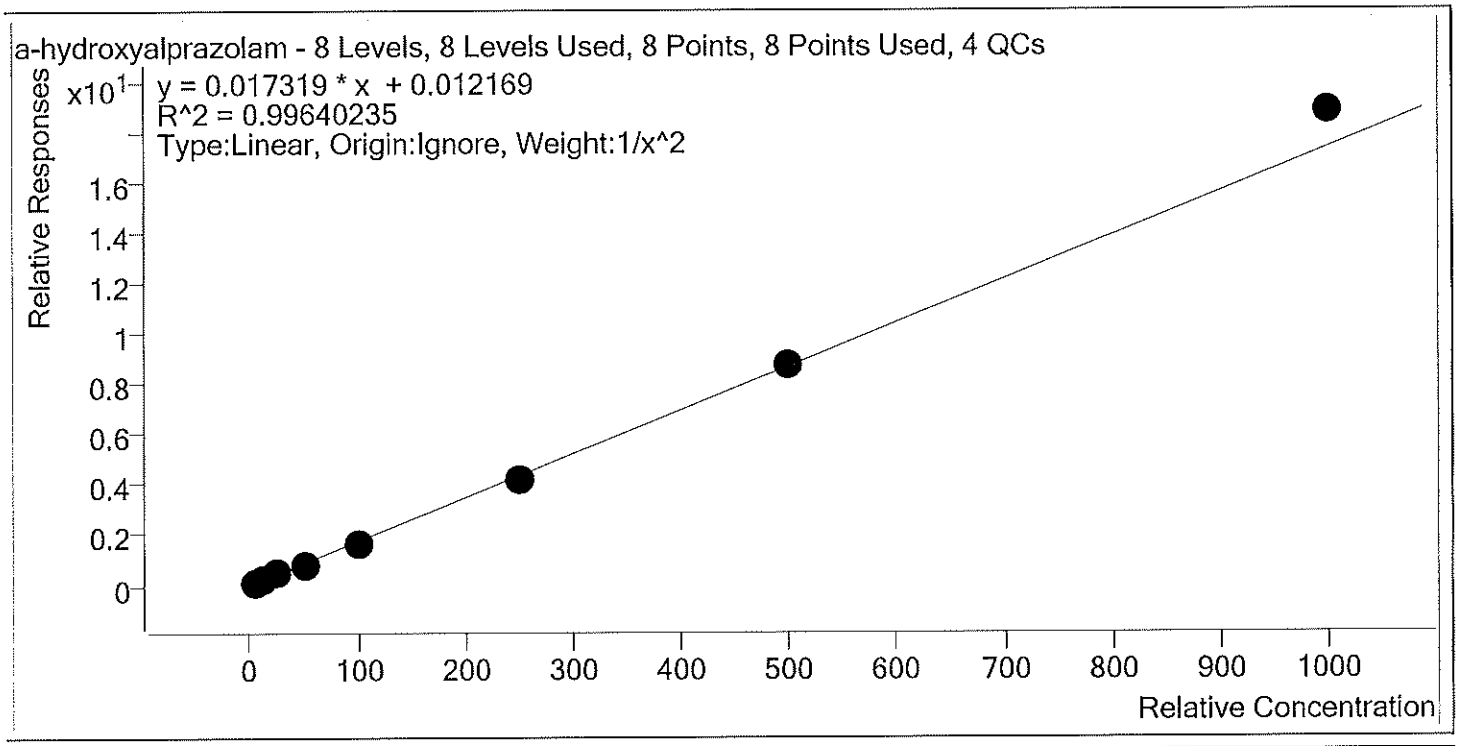


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng_r	3	✓	25.0	26.9	107.5
p1 Cal 4-50ng	4	✓	50.0	54.0	108.0
p1 Cal 5-100ng	5	✓	100.0	106.2	106.2
p1 Cal 6-250ng	6	✓	250.0	254.1	101.6
p1 Cal 7-500ng	7	✓	500.0	474.3	94.9
p1 Cal 8-1000ng	8	✓	1000.0	836.3	83.6

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	a-hydroxyalprazolam
Internal Standard	a-hydroxyalprazolam-D5

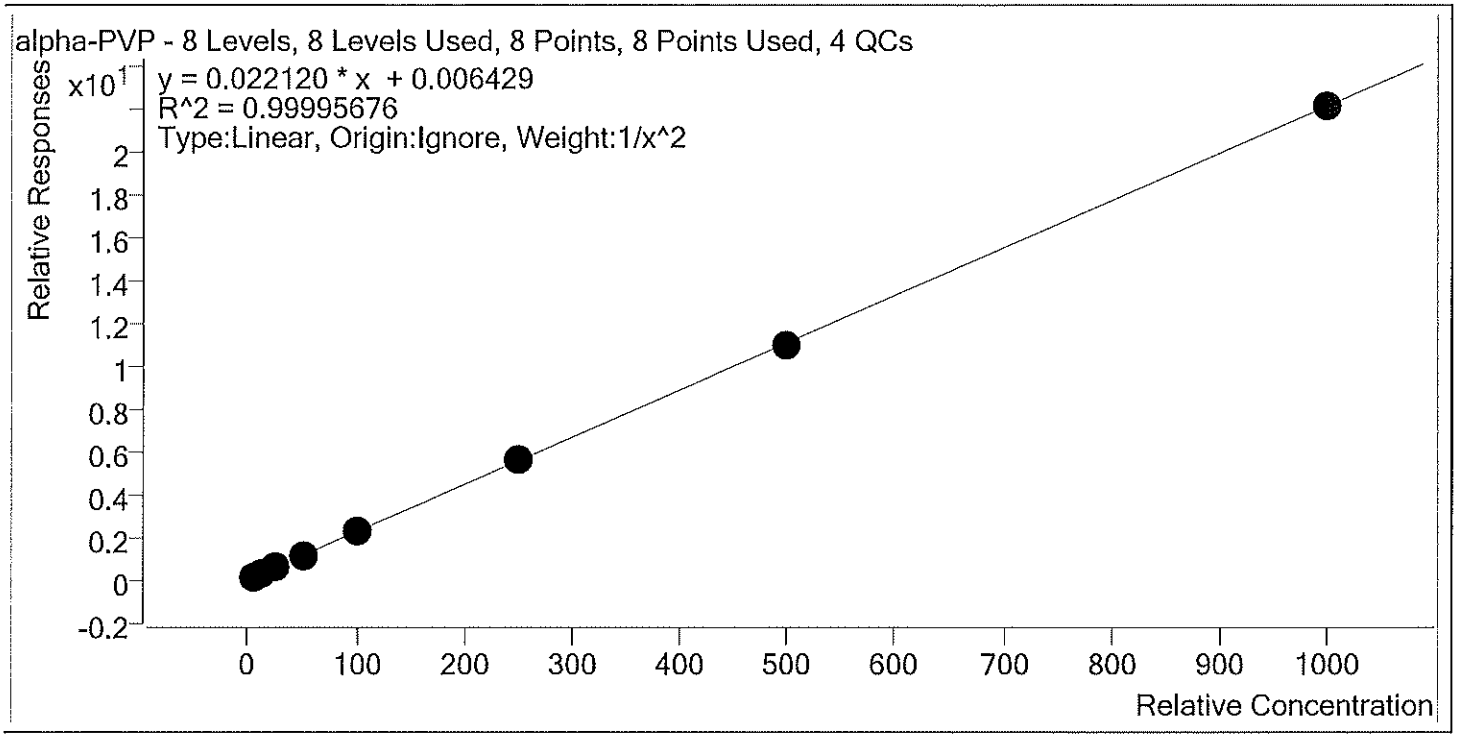


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	97.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.7	107.3
p1 Cal 3 -25ng_r	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	48.1	96.2
p1 Cal 5-100ng	5	✓	100.0	94.7	94.7
p1 Cal 6-250ng	6	✓	250.0	244.8	97.9
p1 Cal 7-500ng	7	✓	500.0	505.8	101.2
p1 Cal 8-1000ng	8	✓	1000.0	1084.6	108.5

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	alpha-PVP
Internal Standard	alpha-PVP-d8

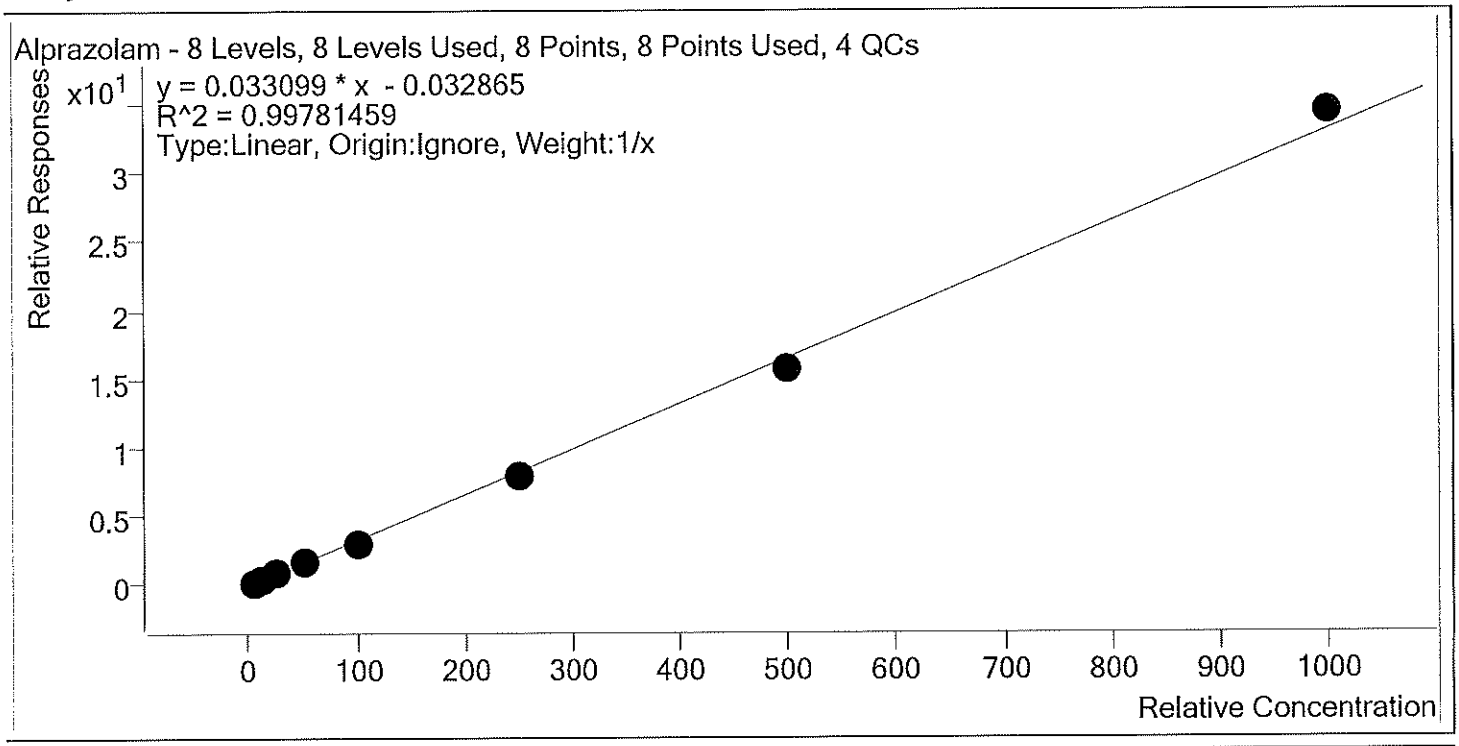


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	100.2
p1 Cal 2- 10ng_r	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng_r	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	495.5	99.1
p1 Cal 8-1000ng	8	✓	1000.0	999.4	99.9

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Alprazolam
Internal Standard	Alprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.8	115.8
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng_r	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	48.5	97.0
p1 Cal 5-100ng	5	✓	100.0	93.0	93.0
p1 Cal 6-250ng	6	✓	250.0	238.0	95.2
p1 Cal 7-500ng	7	✓	500.0	478.5	95.7
p1 Cal 8-1000ng	8	✓	1000.0	1041.5	104.1

TS

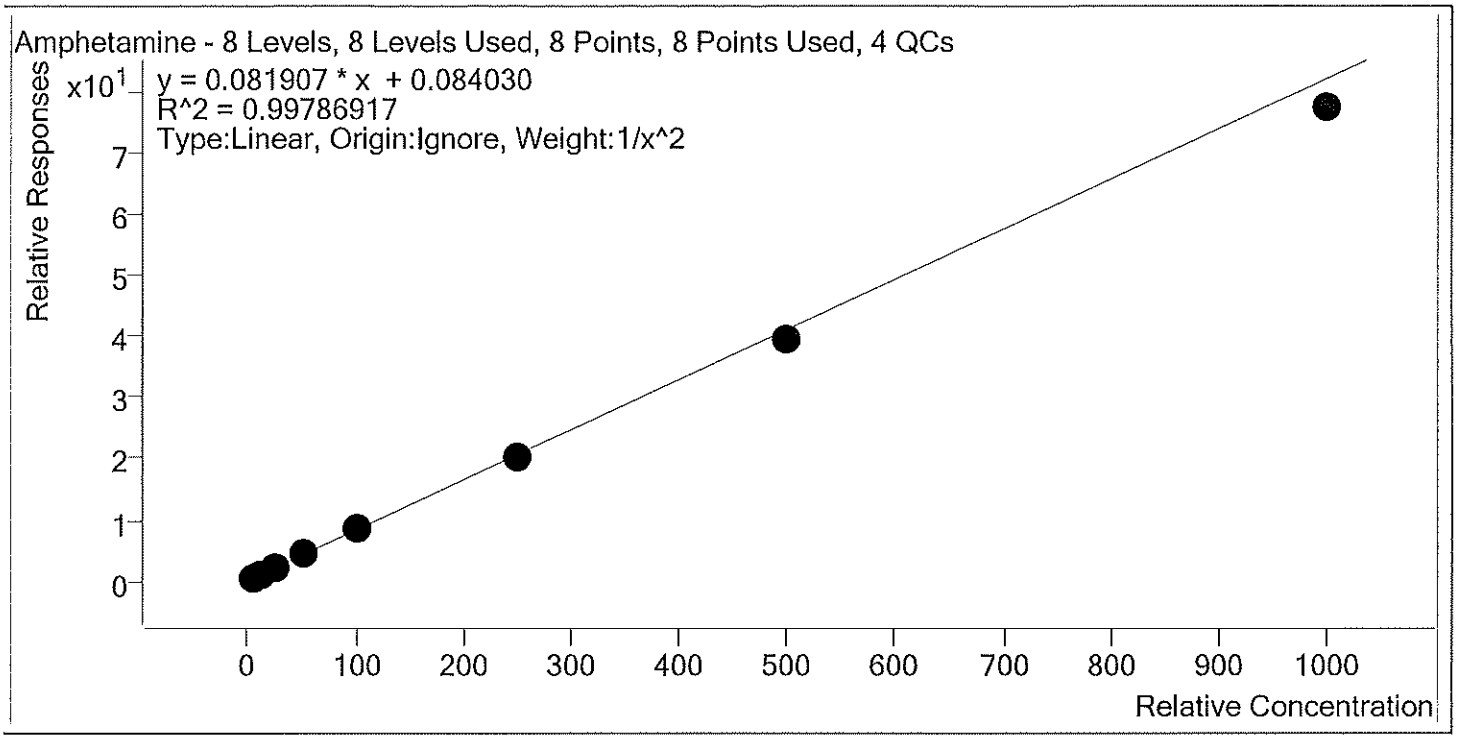
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Amphetamine **Internal Standard** Amphetamine-D11

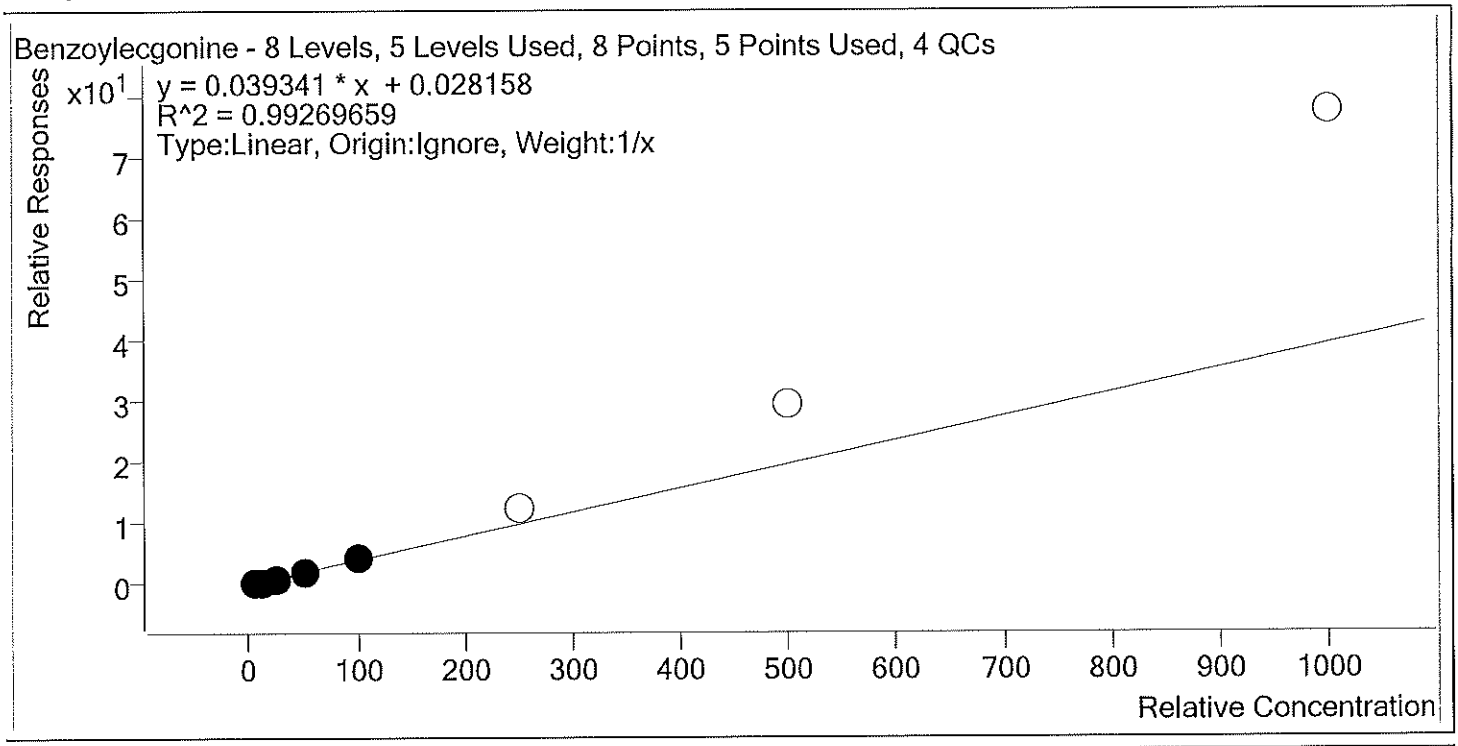


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng_r	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng_r	3	✓	25.0	26.4	105.5
p1 Cal 4-50ng	4	✓	50.0	52.3	104.6
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	246.2	98.5
p1 Cal 7-500ng	7	✓	500.0	481.3	96.3
p1 Cal 8-1000ng	8	✓	1000.0	942.8	94.3

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Benzoylecgonine
Internal Standard	Benzoylecgonine-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.7	114.7
p1 Cal 2- 10ng_r	2	✓	10.0	9.6	95.5
p1 Cal 3 -25ng_r	3	✓	25.0	23.0	91.8
p1 Cal 4-50ng	4	✓	50.0	46.2	92.3
p1 Cal 5-100ng	5	✓	100.0	105.6	105.6
p1 Cal 6-250ng	6	×	250.0	323.8	129.5
p1 Cal 7-500ng	7	×	500.0	752.2	150.4
p1 Cal 8-1000ng	8	×	1000.0	1977.0	197.7

TS

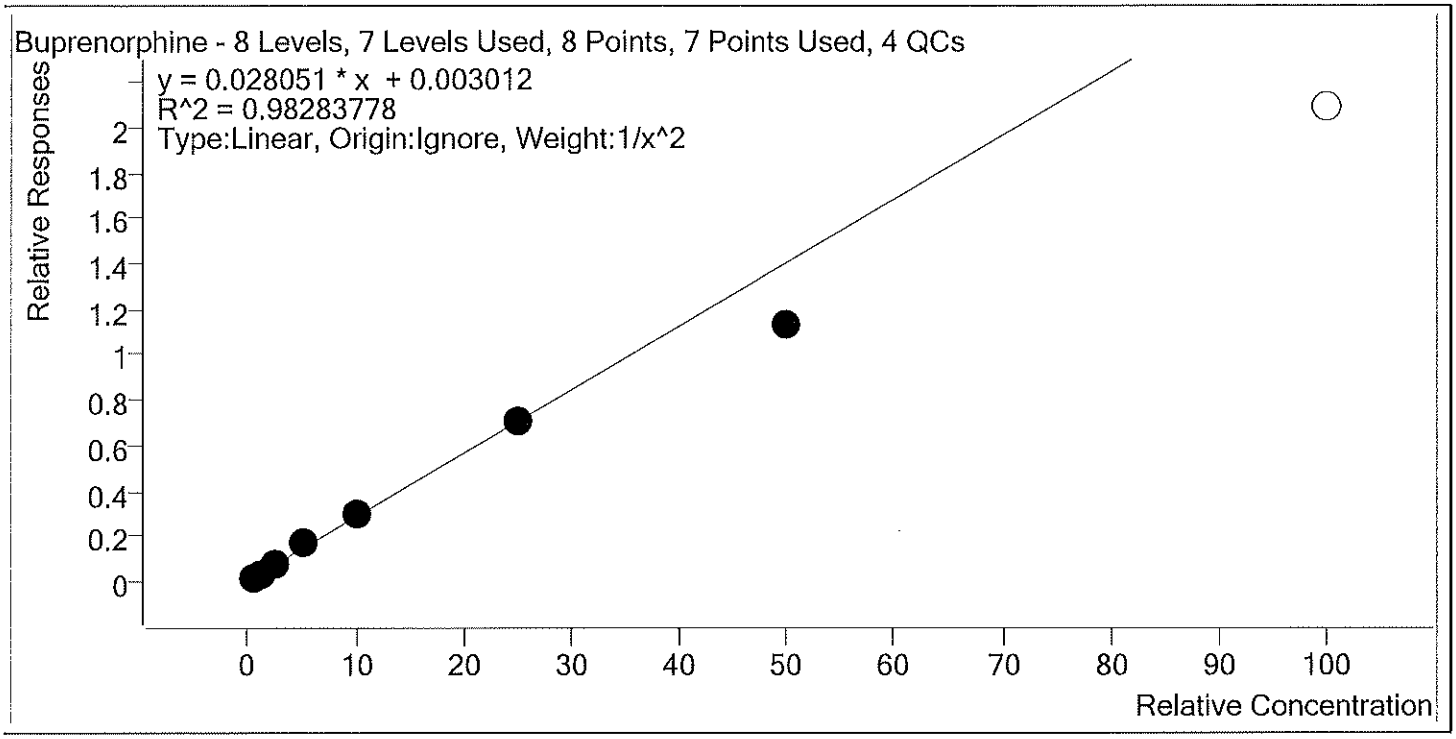
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

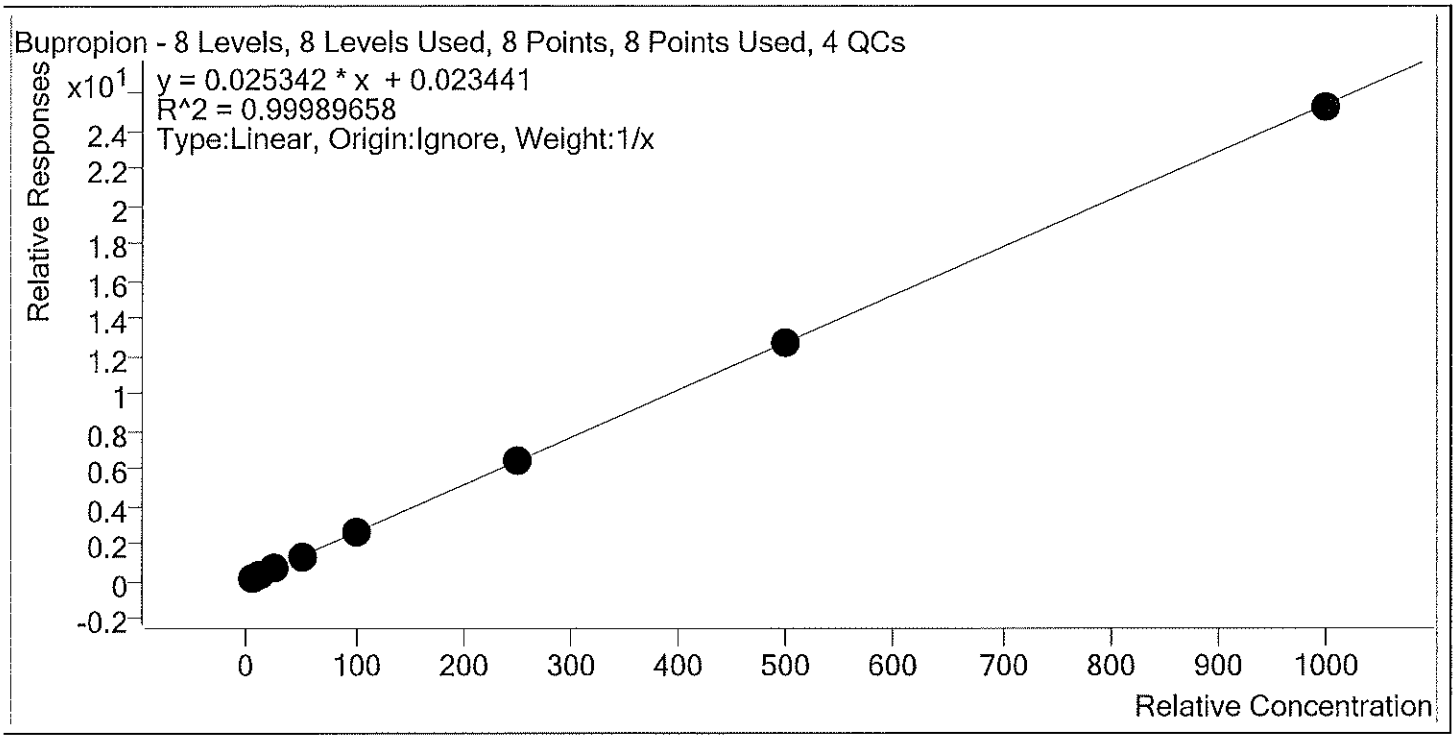
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	0.5	0.5	96.4
p1 Cal 2- 10ng_r	2	✓	1.0	1.0	104.9
p1 Cal 3 -25ng_r	3	✓	2.5	2.4	97.0
p1 Cal 4-50ng	4	✓	5.0	5.9	117.7
p1 Cal 5-100ng	5	✓	10.0	10.3	102.7
p1 Cal 6-250ng	6	✓	25.0	25.2	100.7
p1 Cal 7-500ng	7	✓	50.0	40.2	80.5
p1 Cal 8-1000ng	8	×	100.0	74.5	74.5

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Bupropion
Internal Standard	Bupropion-D9

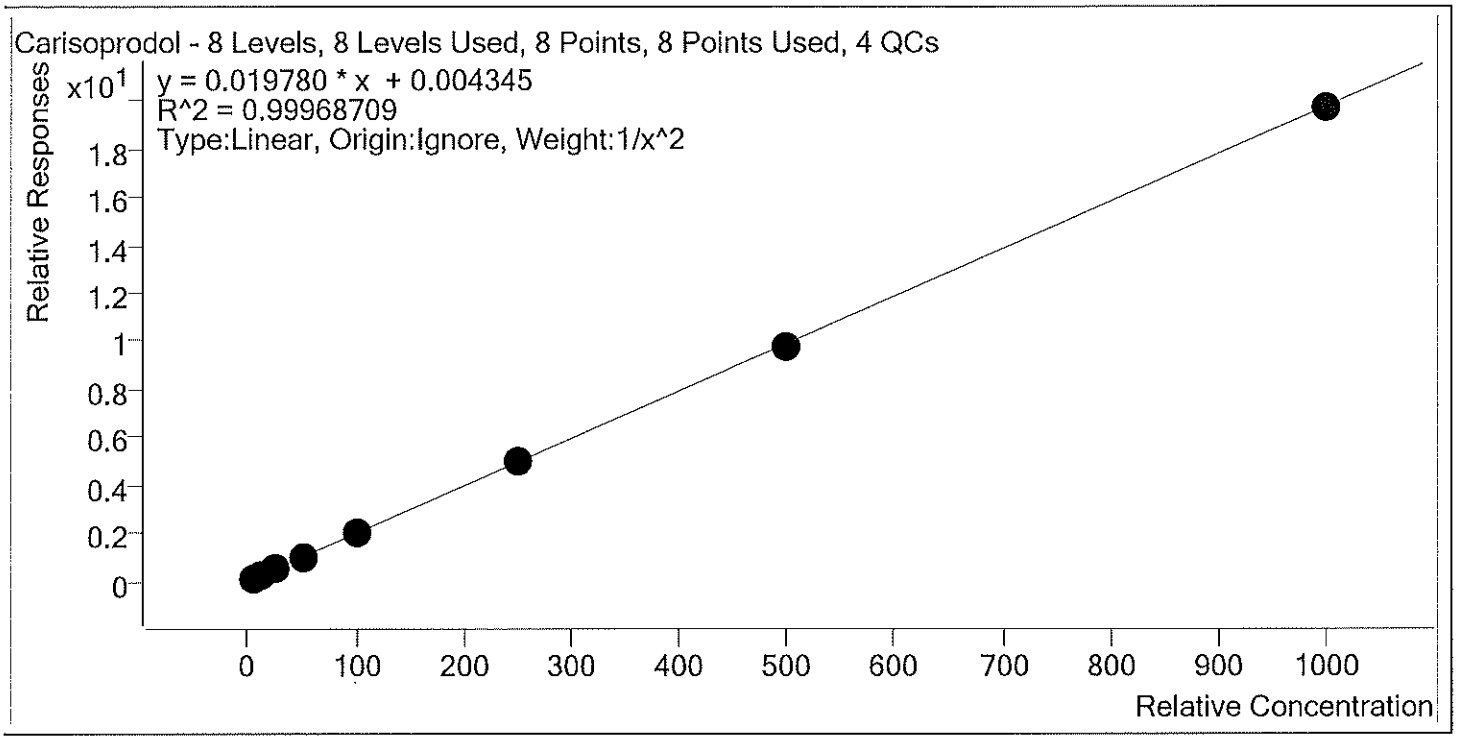


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.7	93.1
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng_r	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	51.7	103.3
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	499.6	99.9
p1 Cal 8-1000ng	8	✓	1000.0	994.3	99.4

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Carisoprodol
Internal Standard	Carisoprodol-D7

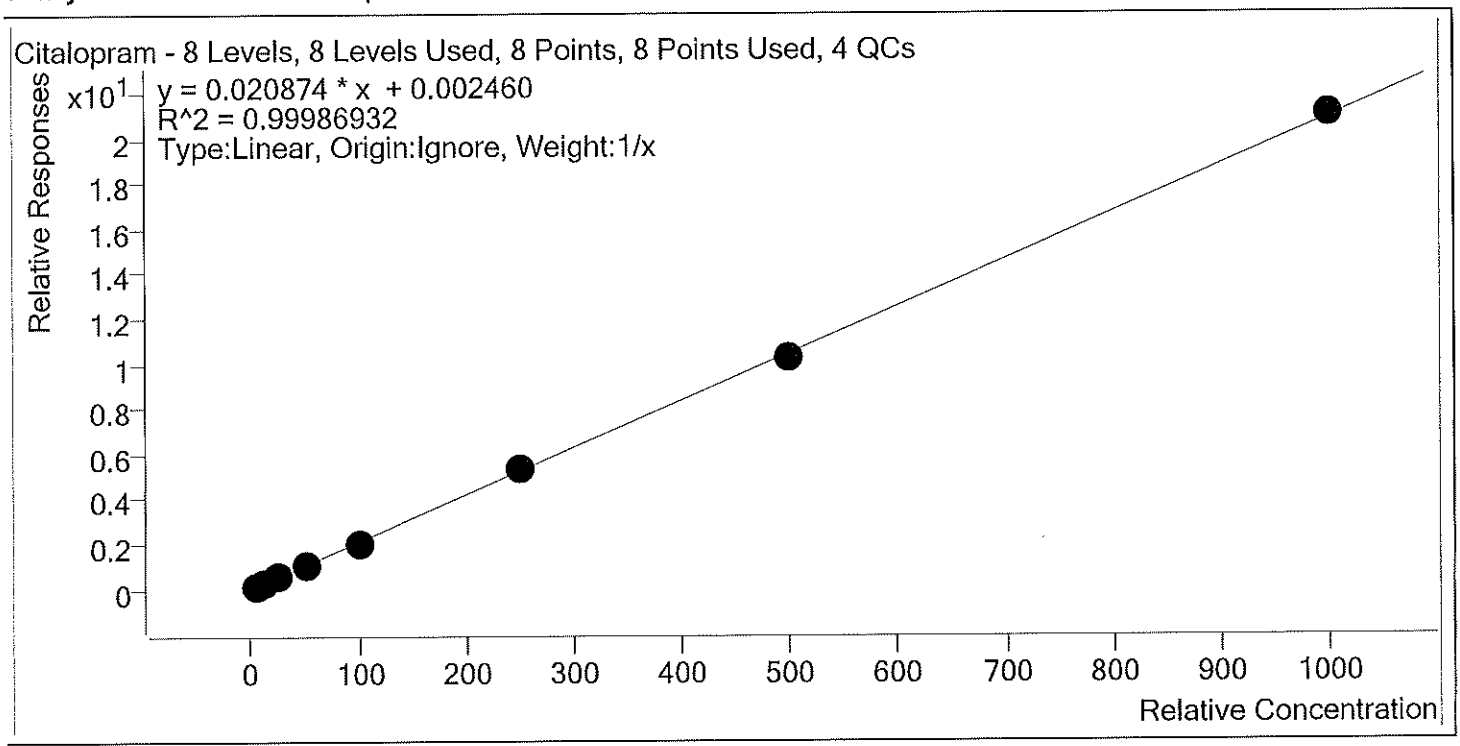


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng_r	2	✓	10.0	9.8	97.6
p1 Cal 3 -25ng_r	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng	6	✓	250.0	252.1	100.8
p1 Cal 7-500ng	7	✓	500.0	495.4	99.1
p1 Cal 8-1000ng	8	✓	1000.0	996.7	99.7

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Citalopram
Internal Standard	Citalopram-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng_r	3	✓	25.0	25.4	101.4
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	492.0	98.4
p1 Cal 8-1000ng	8	✓	1000.0	1007.5	100.8

TS

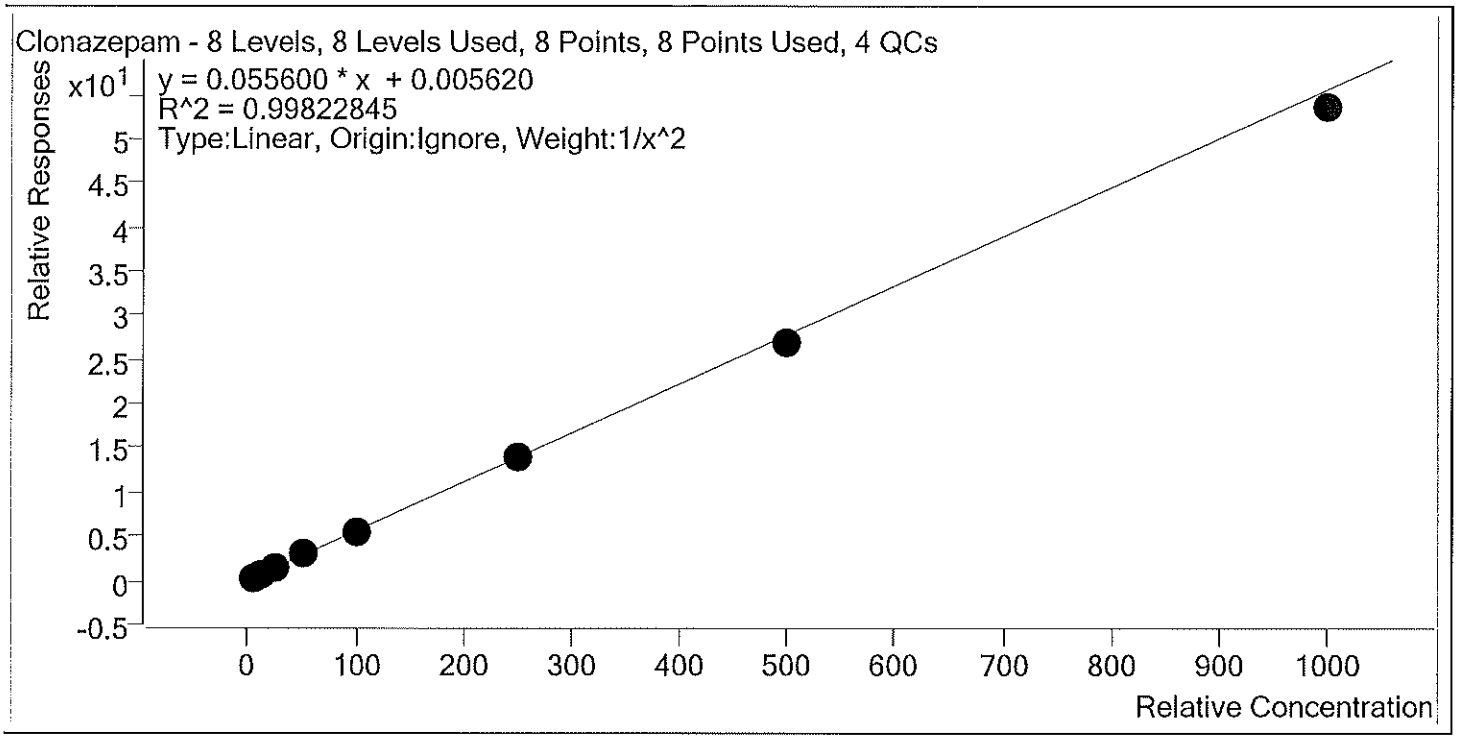
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Clonazepam **Internal Standard** Clonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng_r	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng_r	3	✓	25.0	25.8	103.4
p1 Cal 4-50ng	4	✓	50.0	52.8	105.7
p1 Cal 5-100ng	5	✓	100.0	96.5	96.5
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	485.2	97.0
p1 Cal 8-1000ng	8	✓	1000.0	963.5	96.4

TS

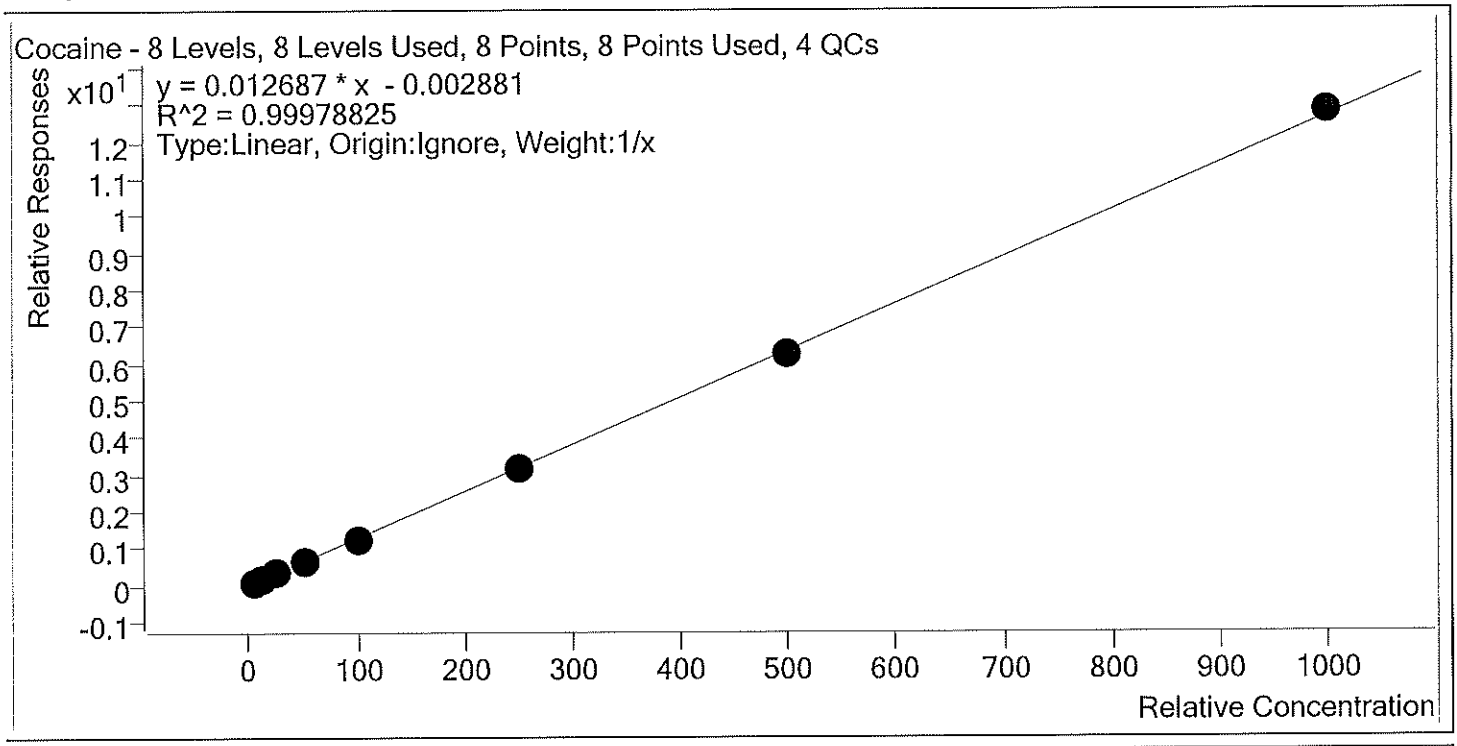
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Cocaine **Internal Standard** Cocaine-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.3	106.6
p1 Cal 2- 10ng_r	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng_r	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	246.7	98.7
p1 Cal 7-500ng	7	✓	500.0	495.6	99.1
p1 Cal 8-1000ng	8	✓	1000.0	1011.7	101.2

TS

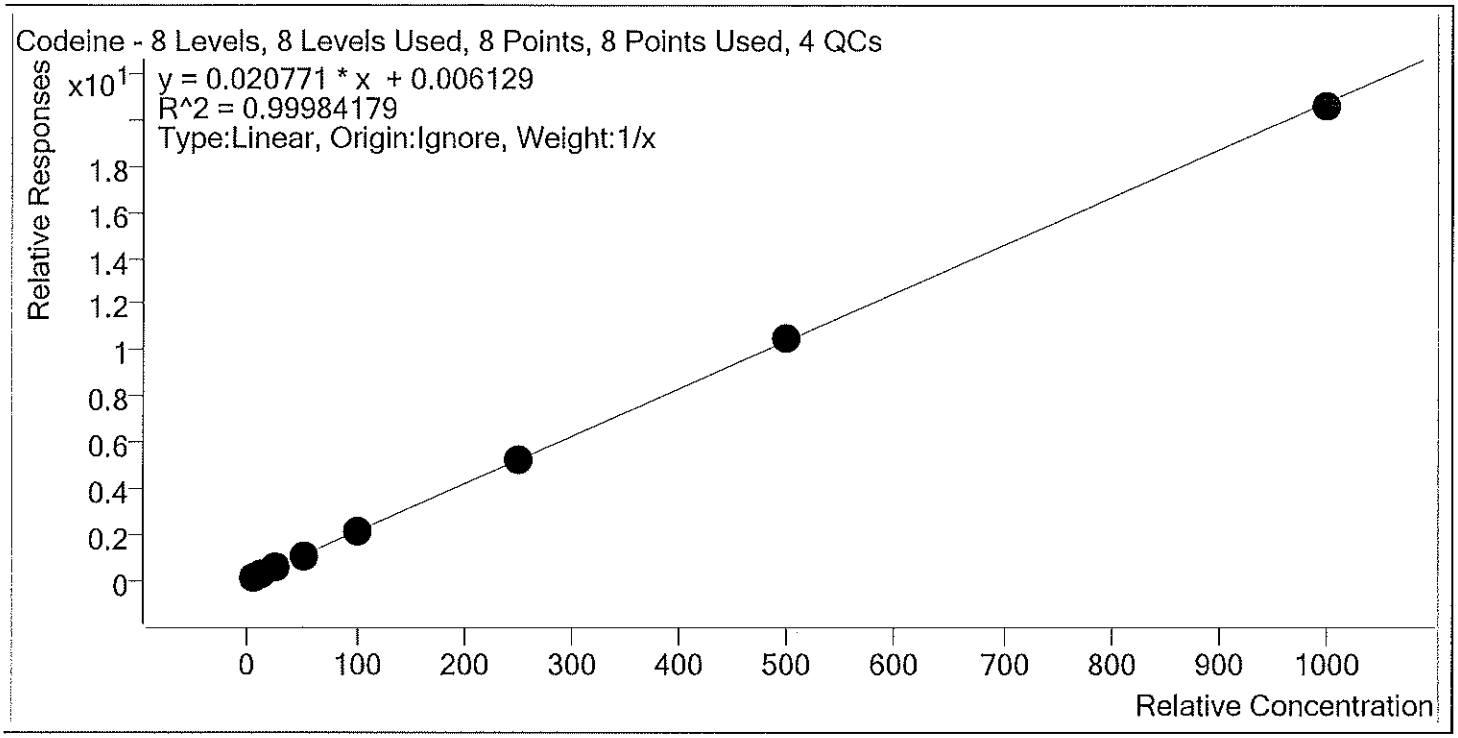
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Codeine **Internal Standard** Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng_r	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng_r	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	49.4	98.9
p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng	6	✓	250.0	251.5	100.6
p1 Cal 7-500ng	7	✓	500.0	509.1	101.8
p1 Cal 8-1000ng	8	✓	1000.0	991.1	99.1

TS

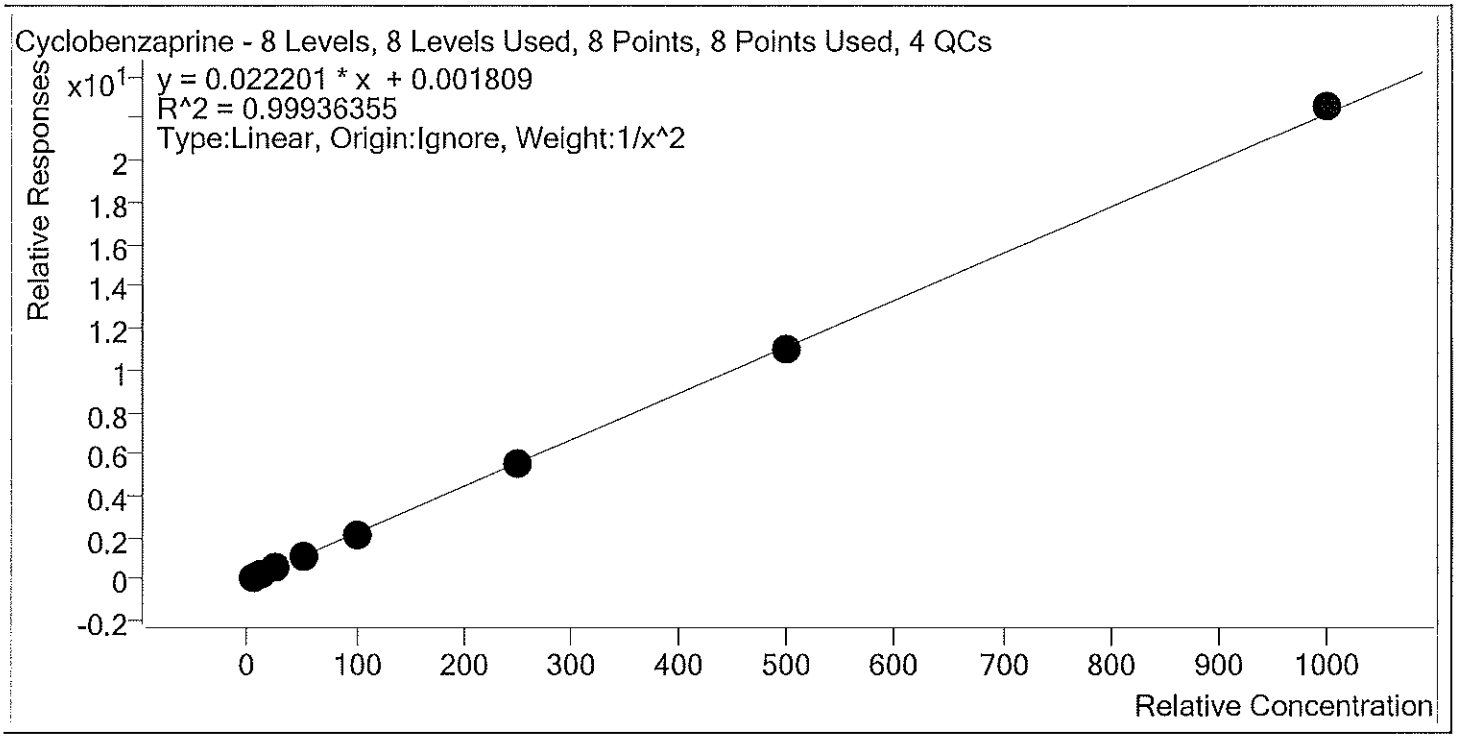
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

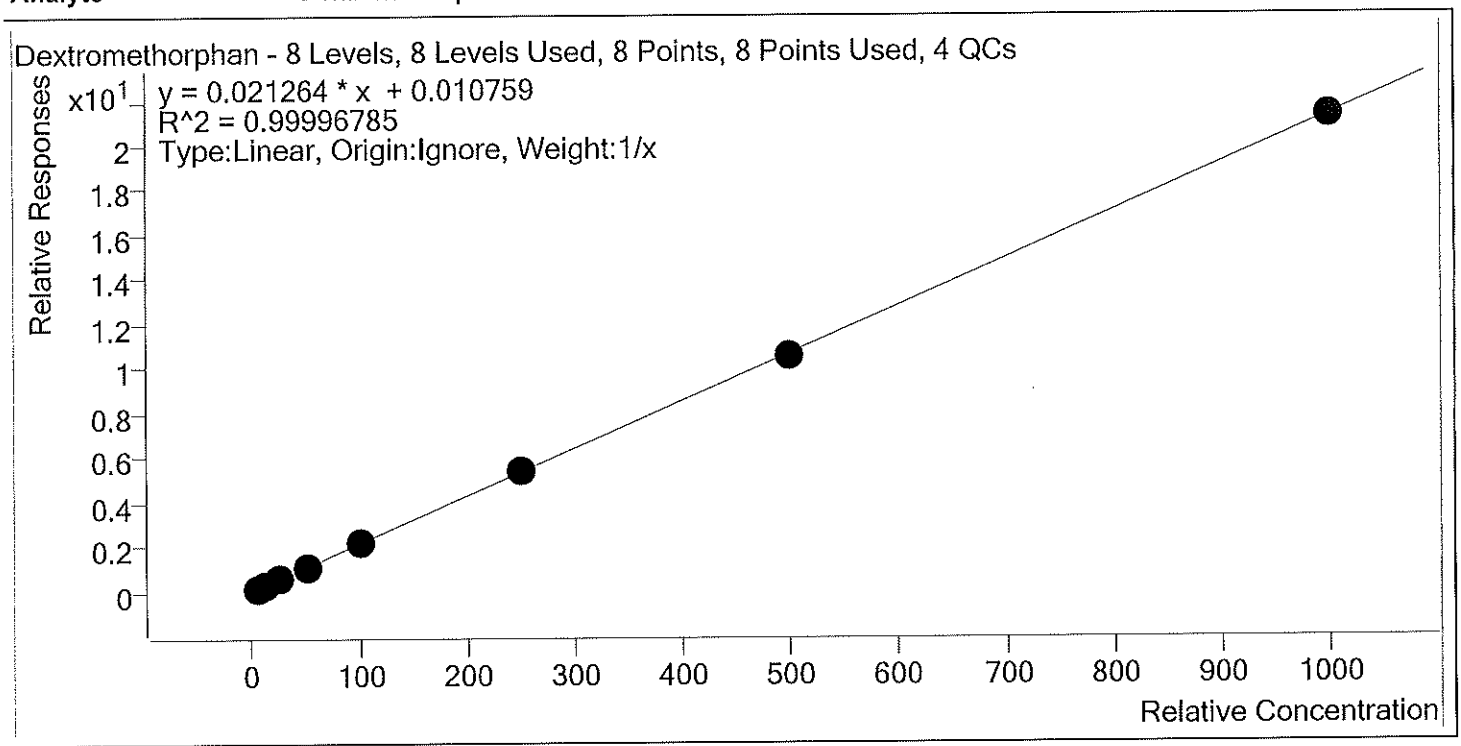


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng_r	3	✓	25.0	24.6	98.2
p1 Cal 4-50ng	4	✓	50.0	52.3	104.5
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
p1 Cal 7-500ng	7	✓	500.0	494.0	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1015.1	101.5

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Dextromethorphan
Internal Standard	Dextromethorphan-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng_r	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	51.2	102.5
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	251.8	100.7
p1 Cal 7-500ng	7	✓	500.0	498.1	99.6
p1 Cal 8-1000ng	8	✓	1000.0	999.3	99.9

TS

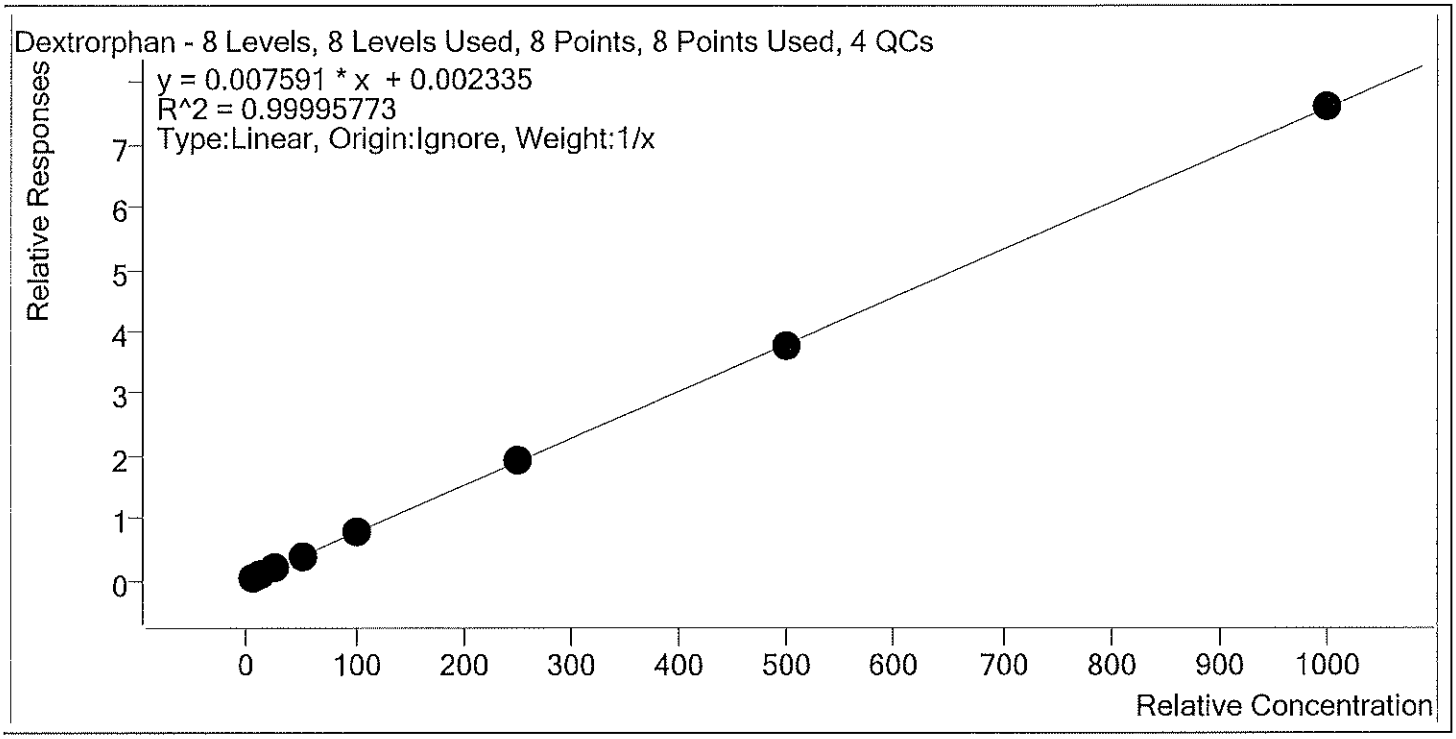
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

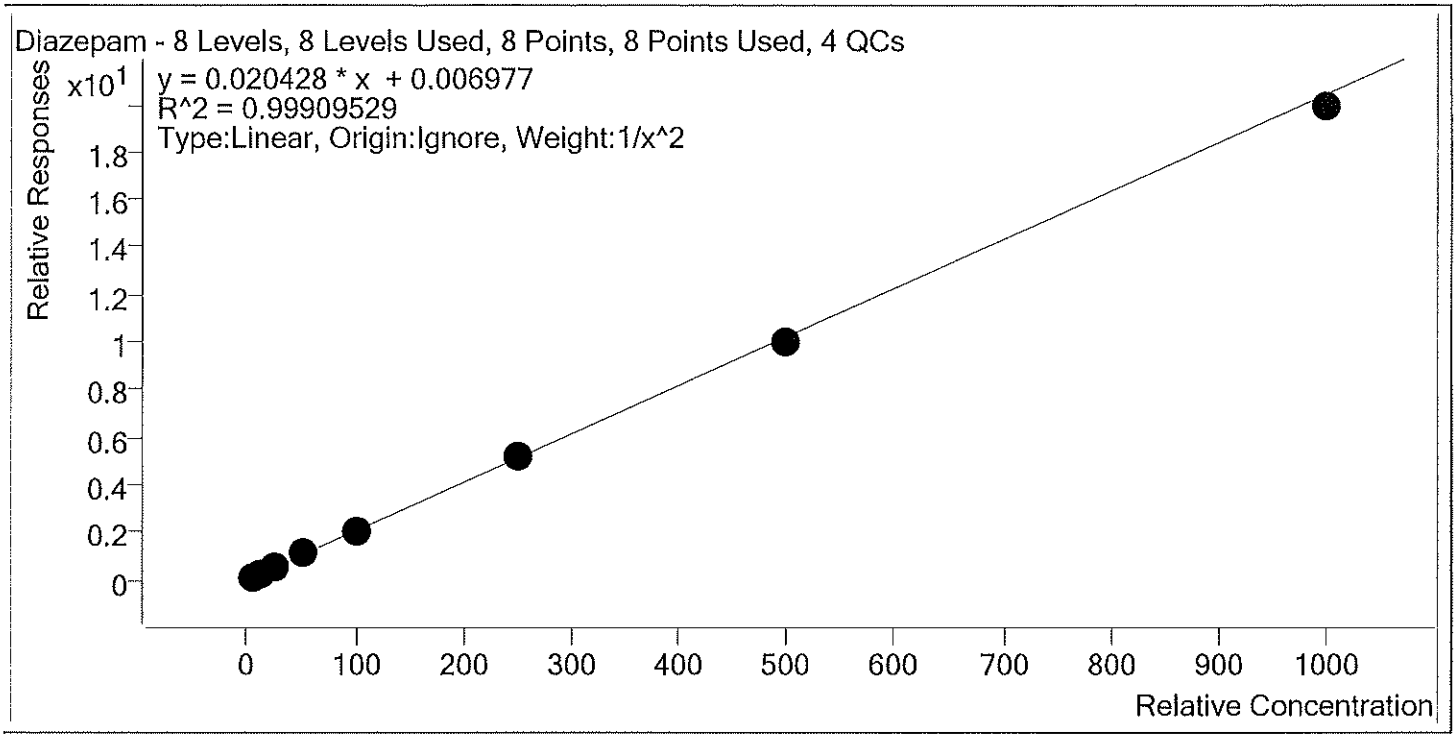


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng_r	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng_r	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	250.1	100.0
p1 Cal 7-500ng	7	✓	500.0	495.5	99.1
p1 Cal 8-1000ng	8	✓	1000.0	1002.9	100.3

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Diazepam
Internal Standard	Diazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng_r	2	✓	10.0	9.6	96.1
p1 Cal 3 -25ng_r	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	51.9	103.7
p1 Cal 5-100ng	5	✓	100.0	99.7	99.7
p1 Cal 6-250ng	6	✓	250.0	256.6	102.6
p1 Cal 7-500ng	7	✓	500.0	492.0	98.4
p1 Cal 8-1000ng	8	✓	1000.0	974.4	97.4

TS

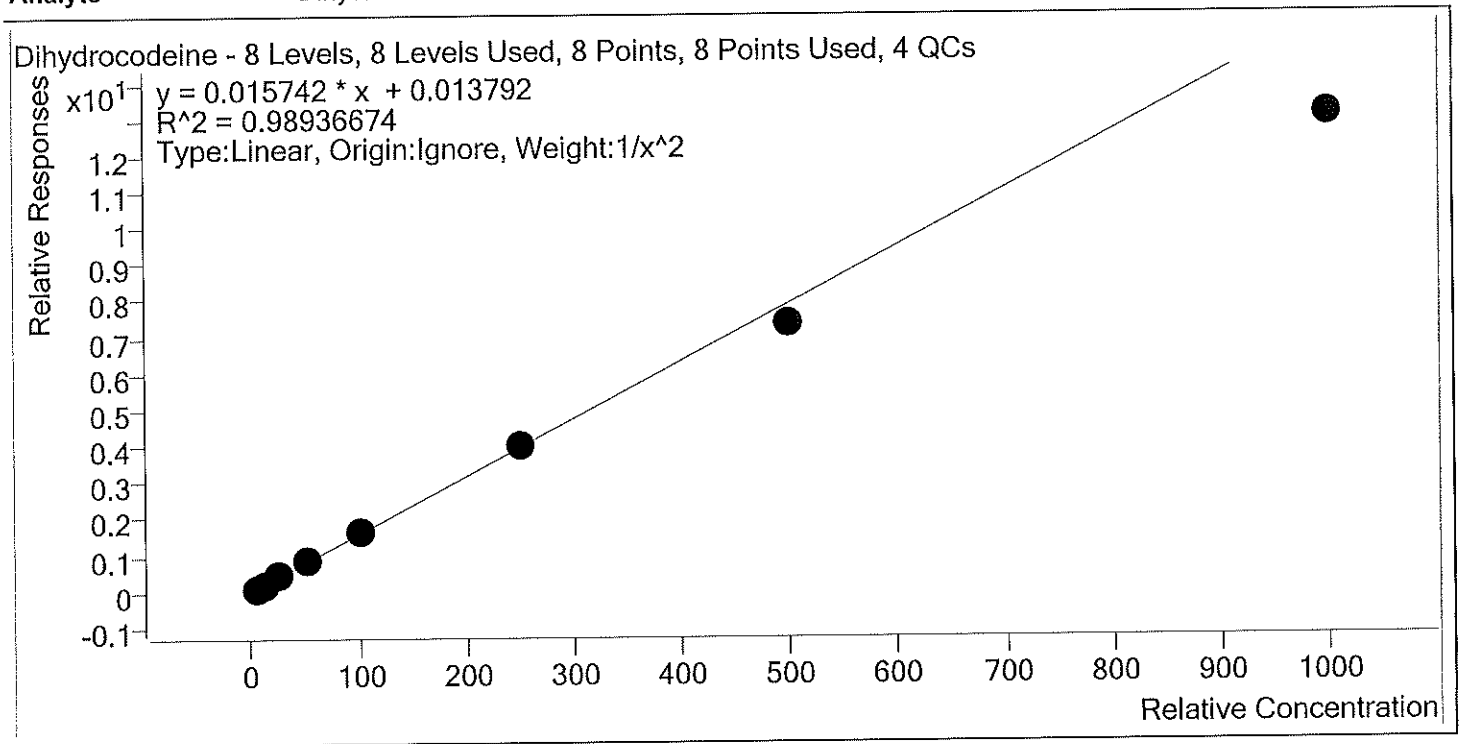
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.8	95.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng_r	3	✓	25.0	26.9	107.8
p1 Cal 4-50ng	4	✓	50.0	55.4	110.7
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	468.6	93.7
p1 Cal 8-1000ng	8	✓	1000.0	828.2	82.8

TS

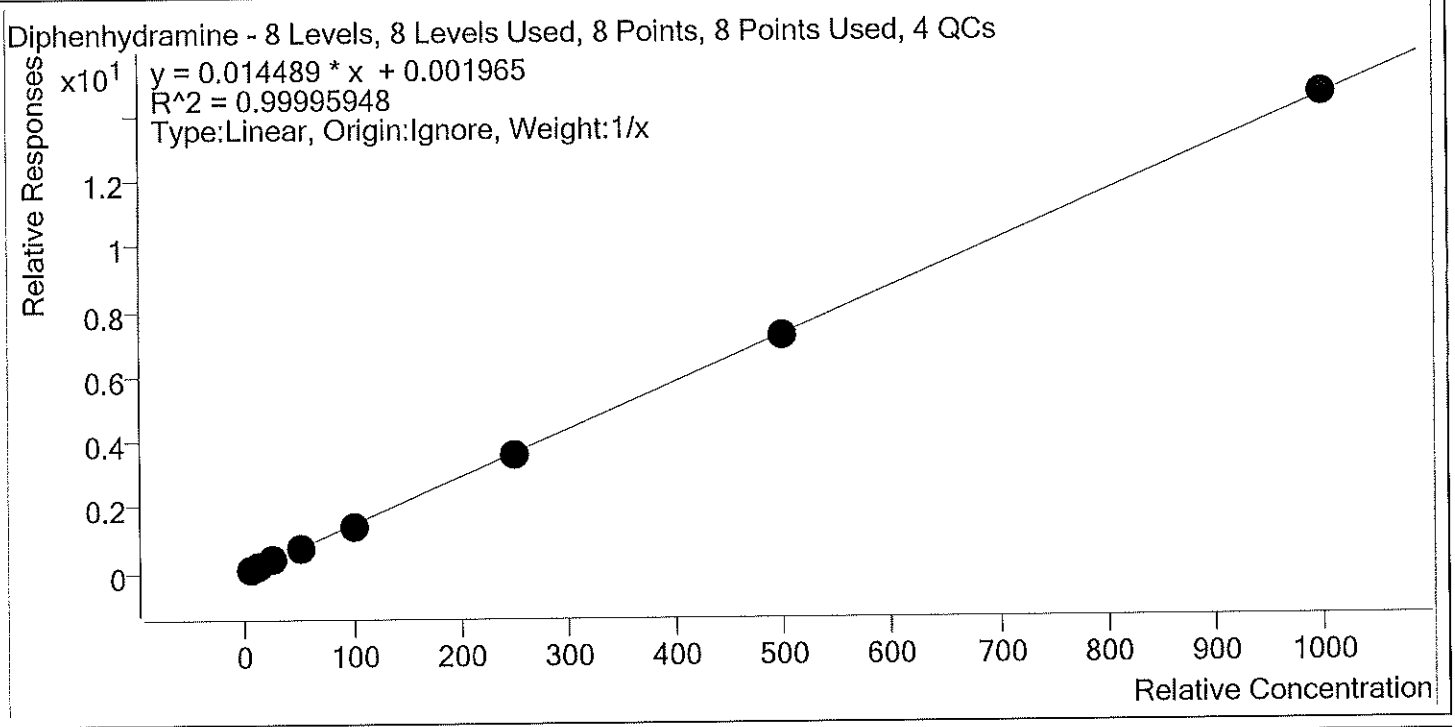
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

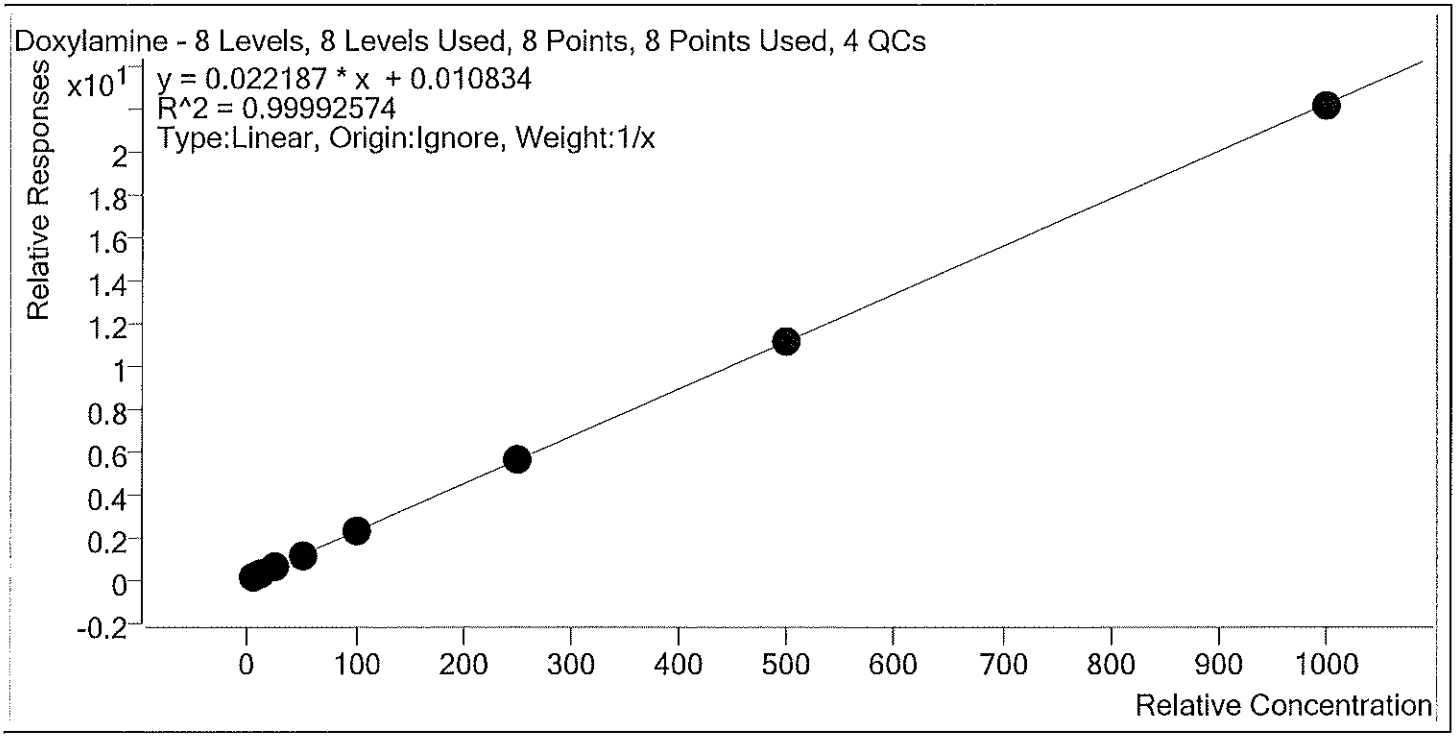
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng_r	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.7	101.3
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	247.6	99.0
p1 Cal 7-500ng	7	✓	500.0	500.1	100.0
p1 Cal 8-1000ng	8	✓	1000.0	1003.3	100.3

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Doxylamine
Internal Standard	Doxylamine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng_r	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng_r	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	253.5	101.4
p1 Cal 7-500ng	7	✓	500.0	500.0	100.0
p1 Cal 8-1000ng	8	✓	1000.0	994.9	99.5

TS

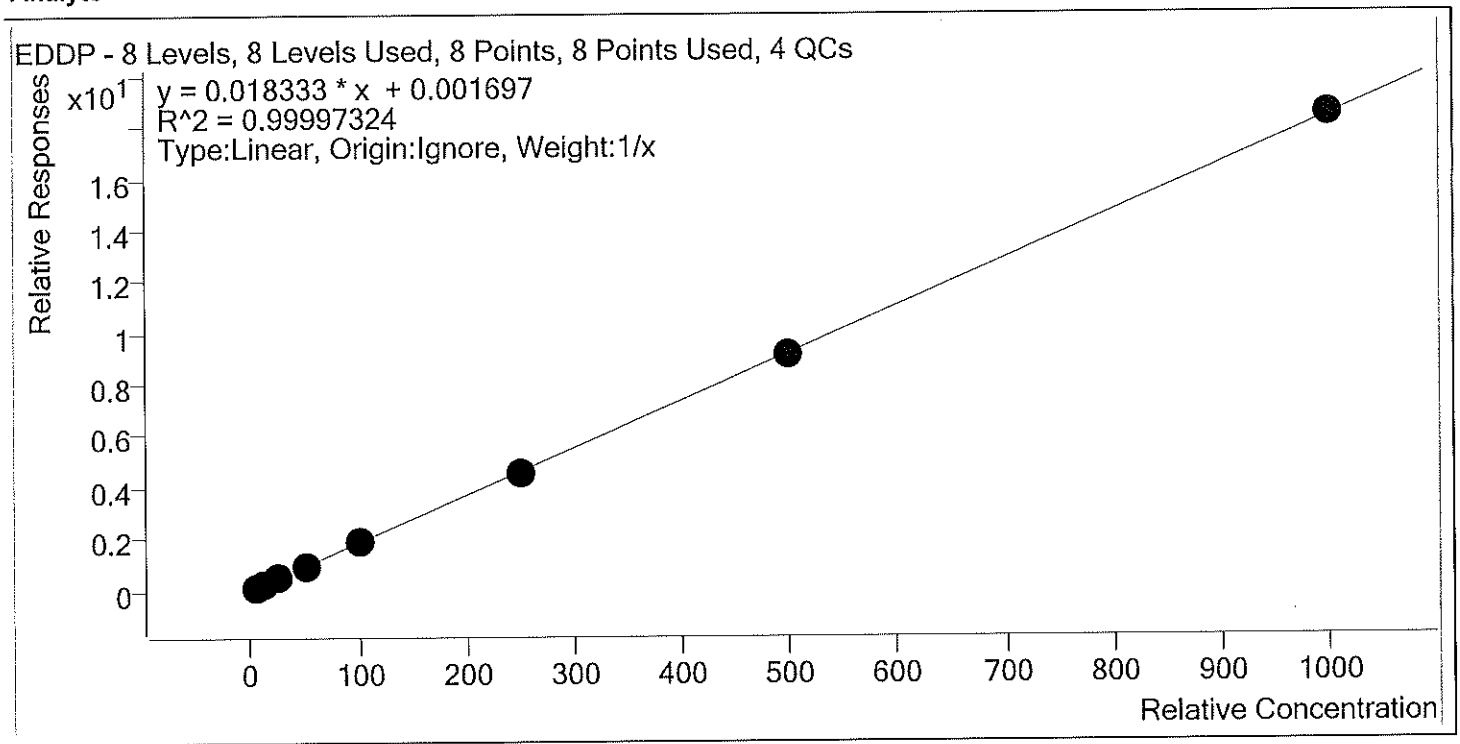
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

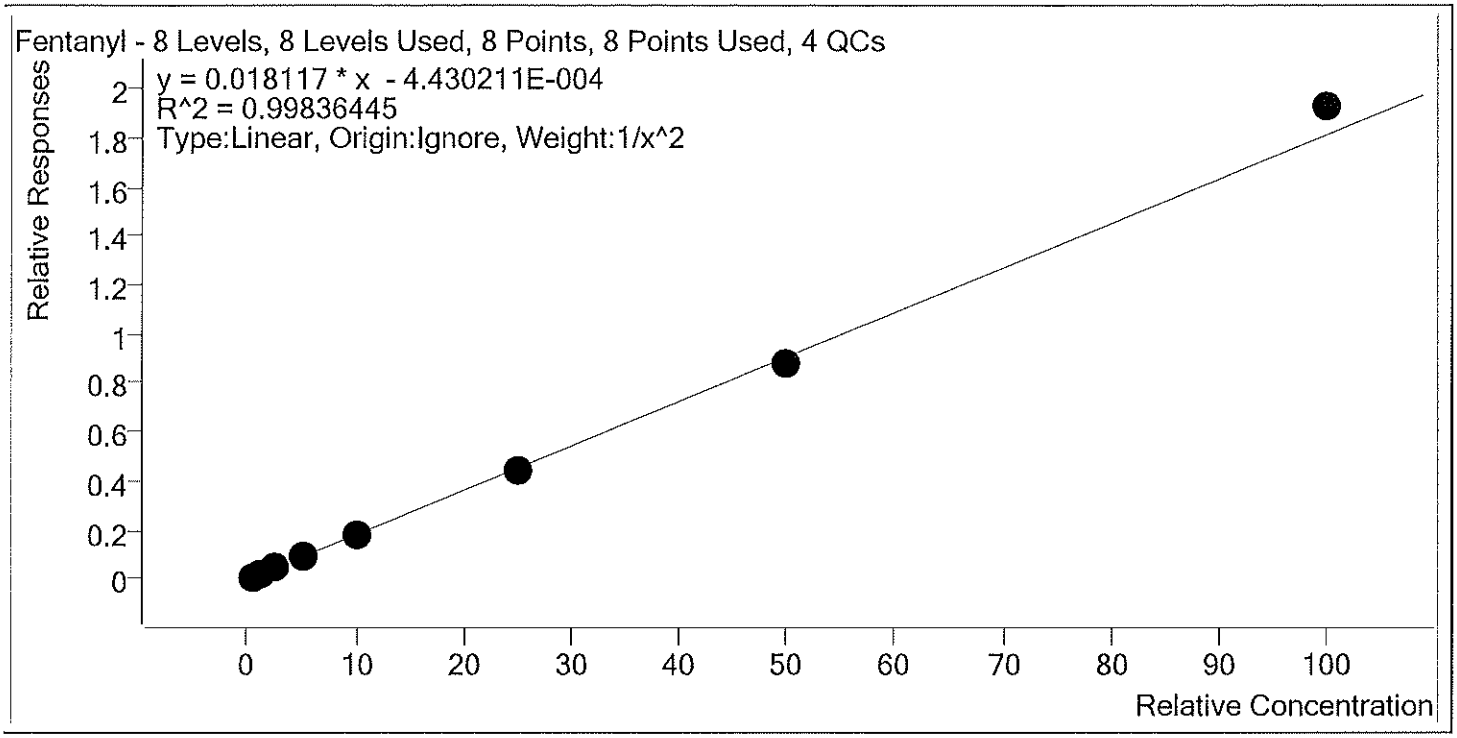
Analyte EDDP **Internal Standard** EDDP-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng_r	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	249.4	99.8
p1 Cal 7-500ng	7	✓	500.0	496.9	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1004.5	100.4

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Fentanyl
Internal Standard	Fentanyl-D5

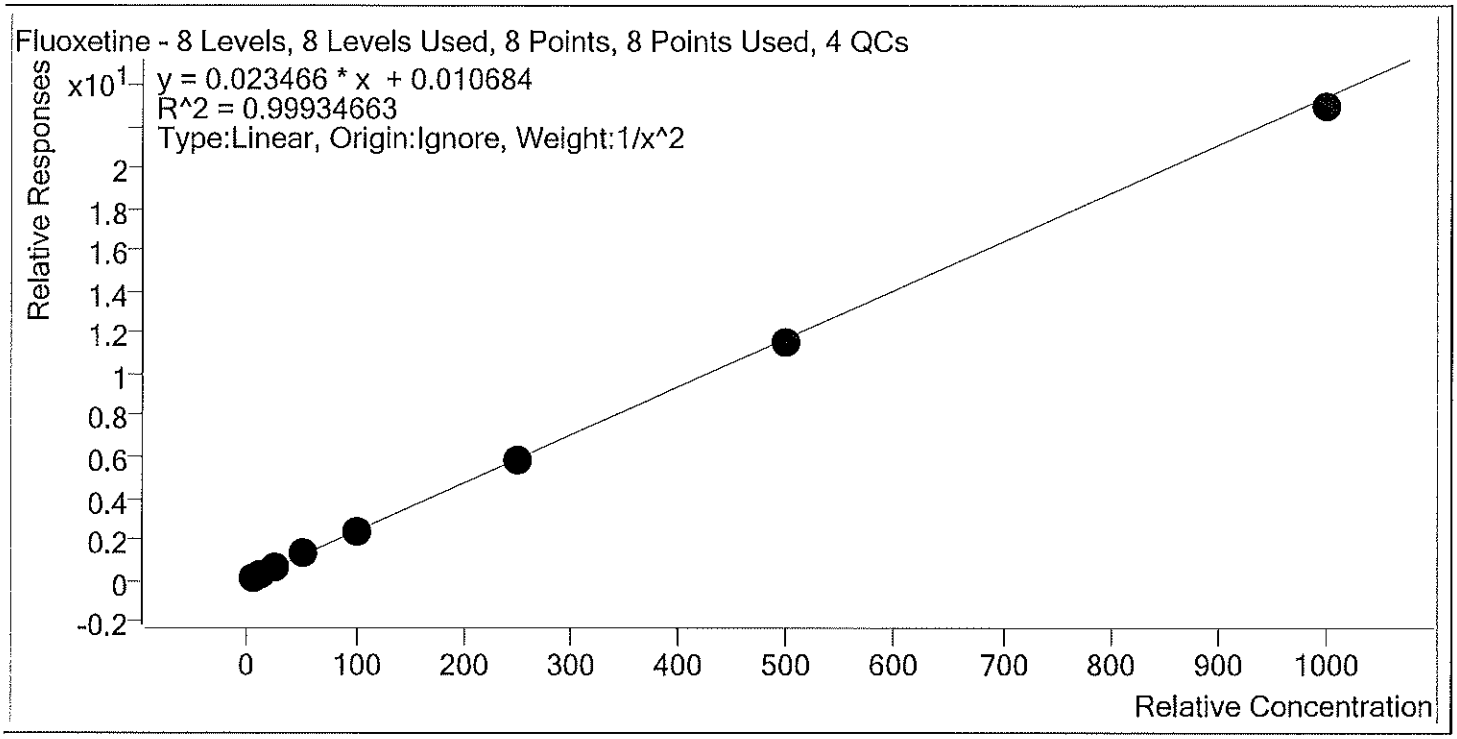


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	0.5	0.5	98.1
p1 Cal 2- 10ng_r	2	✓	1.0	1.0	104.4
p1 Cal 3 -25ng_r	3	✓	2.5	2.5	99.1
p1 Cal 4-50ng	4	✓	5.0	5.0	100.1
p1 Cal 5-100ng	5	✓	10.0	9.8	97.6
p1 Cal 6-250ng	6	✓	25.0	24.3	97.3
p1 Cal 7-500ng	7	✓	50.0	48.5	97.1
p1 Cal 8-1000ng	8	✓	100.0	106.3	106.3

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Fluoxetine
Internal Standard	Fluoxetine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng_r	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	52.4	104.8
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	248.2	99.3
p1 Cal 7-500ng	7	✓	500.0	488.6	97.7
p1 Cal 8-1000ng	8	✓	1000.0	979.1	97.9

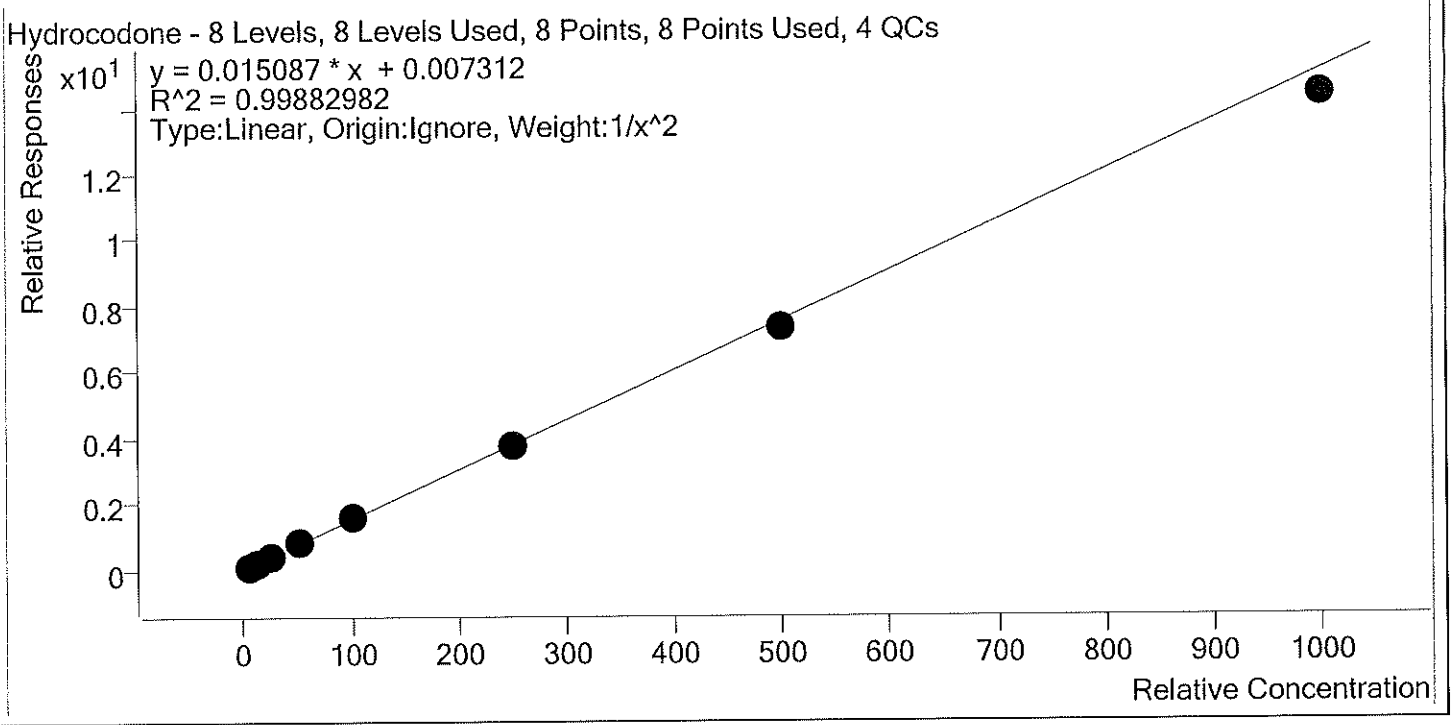
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

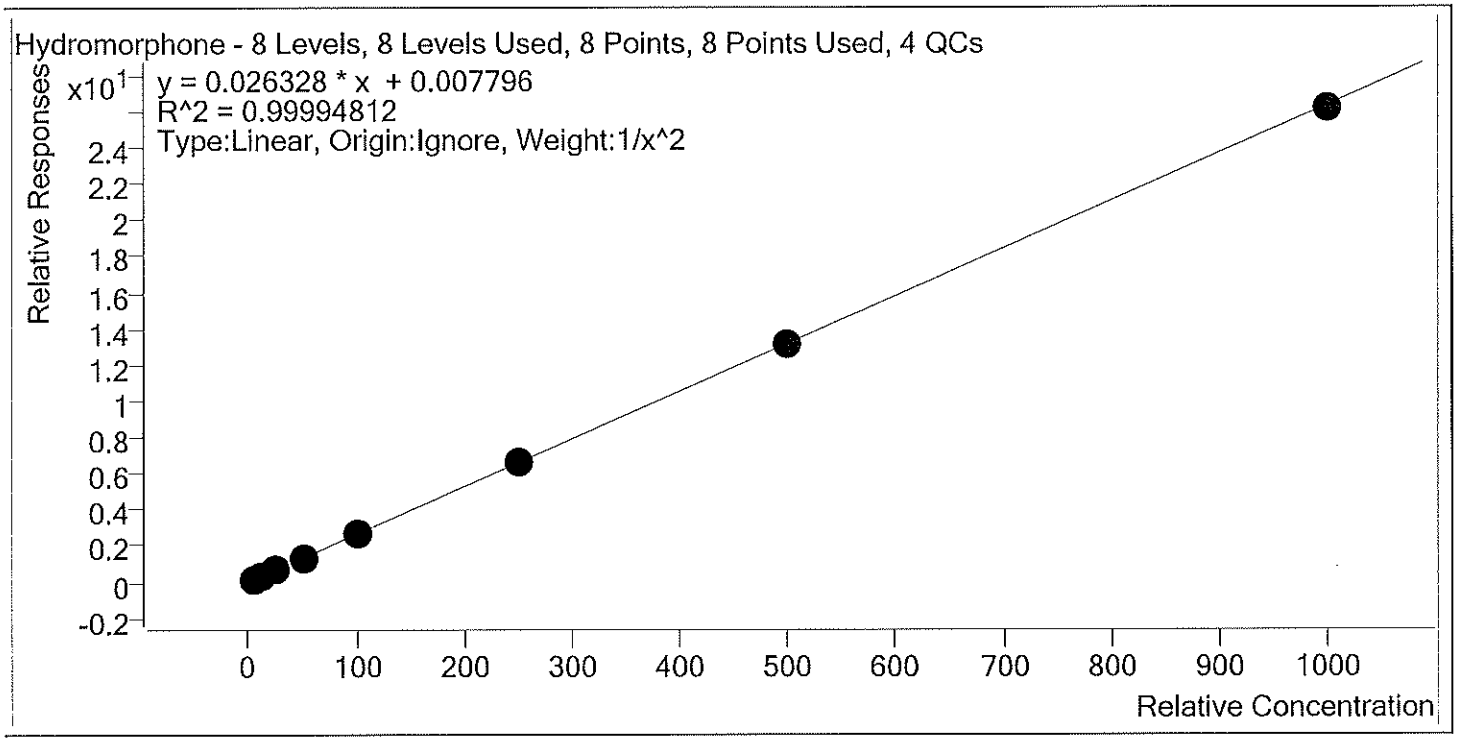


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng_r	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng_r	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	487.9	97.6
p1 Cal 8-1000ng	8	✓	1000.0	952.4	95.2

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Hydromorphone
Internal Standard	Hydromorphone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng_r	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	50.1	100.3
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	252.0	100.8
p1 Cal 7-500ng	7	✓	500.0	500.6	100.1
p1 Cal 8-1000ng	8	✓	1000.0	993.0	99.3

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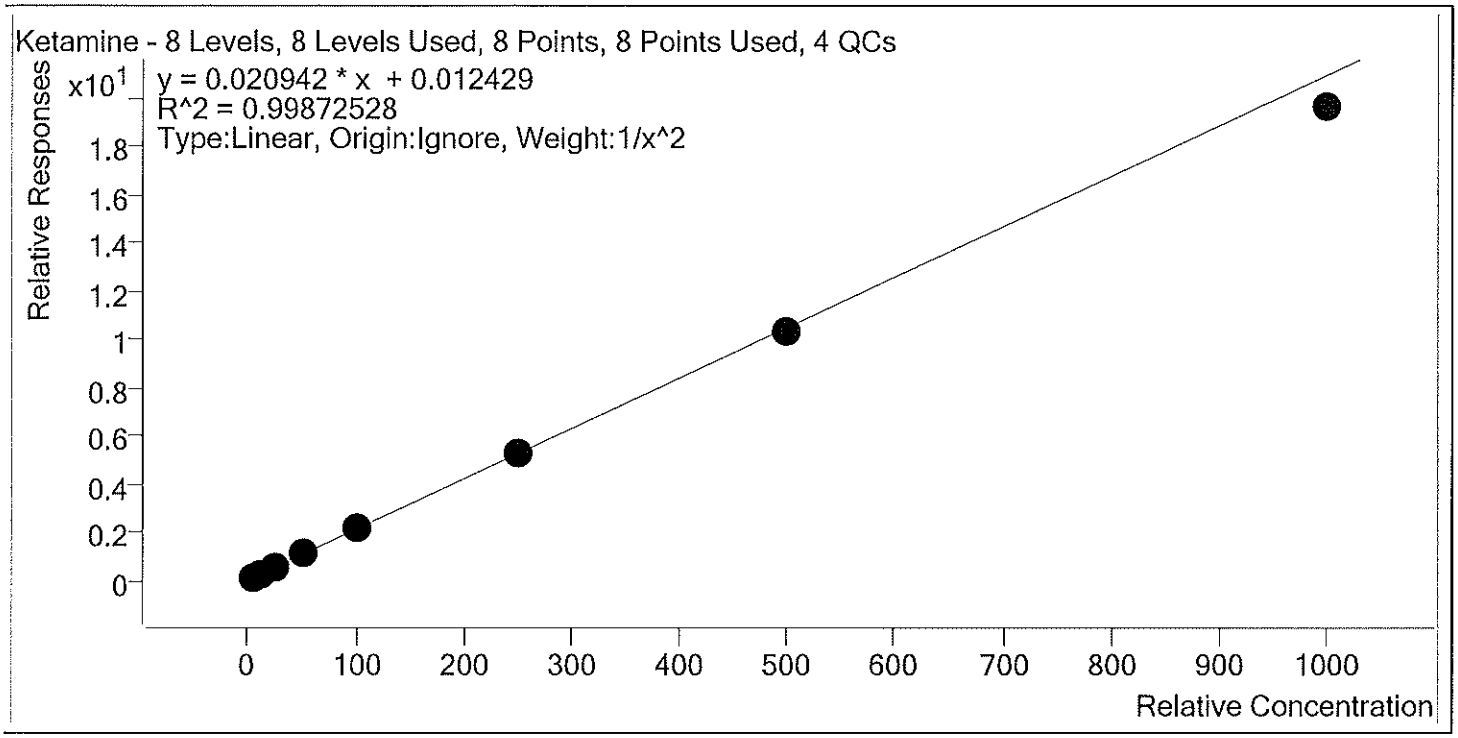
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

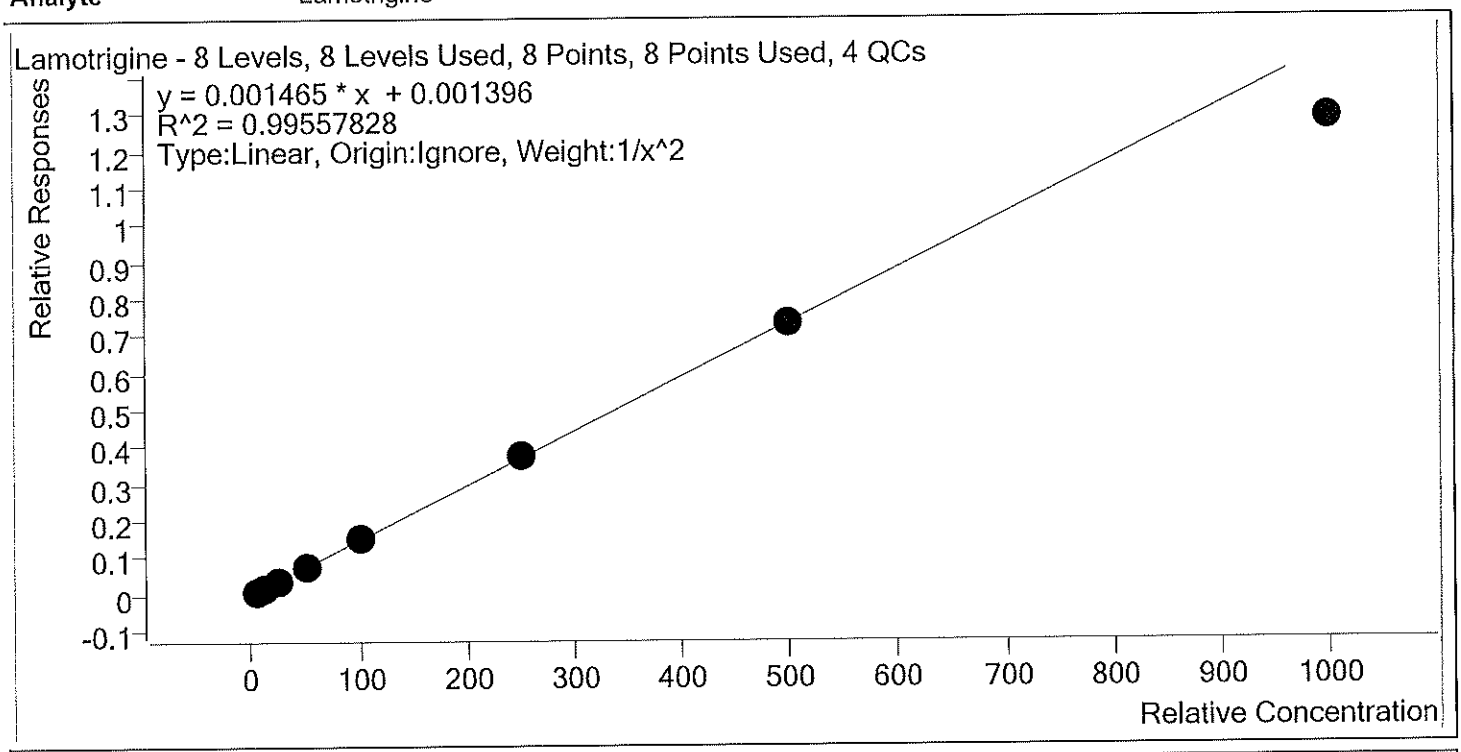
Analyte Ketamine **Internal Standard** Ketamine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng_r	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	51.8	103.5
p1 Cal 5-100ng	5	✓	100.0	101.8	101.8
p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
p1 Cal 7-500ng	7	✓	500.0	489.5	97.9
p1 Cal 8-1000ng	8	✓	1000.0	937.5	93.7

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Lamotrigine
Internal Standard	Ketamine-D4

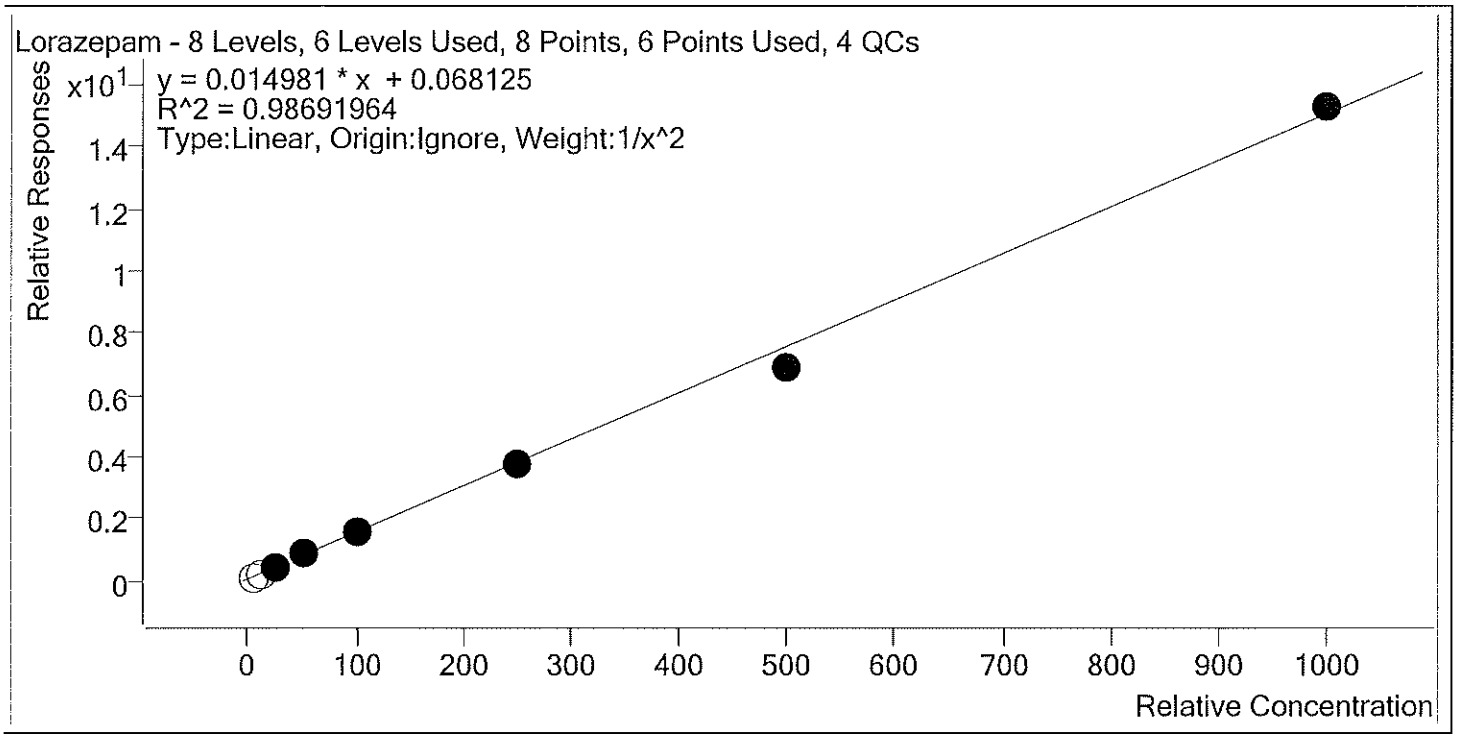


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng_r	2	✓	10.0	9.8	97.5
p1 Cal 3 -25ng_r	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	104.6	104.6
p1 Cal 6-250ng	6	✓	250.0	254.6	101.8
p1 Cal 7-500ng	7	✓	500.0	497.1	99.4
p1 Cal 8-1000ng	8	✓	1000.0	875.1	87.5

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Lorazepam
Internal Standard	Clonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	×	5.0	2.3	45.1
p1 Cal 2- 10ng_r	2	×	10.0	6.0	59.9
p1 Cal 3 -25ng_r	3	✓	25.0	23.1	92.3
p1 Cal 4-50ng	4	✓	50.0	58.4	116.8
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	248.6	99.4
p1 Cal 7-500ng	7	✓	500.0	455.2	91.0
p1 Cal 8-1000ng	8	✓	1000.0	1014.4	101.4

TS

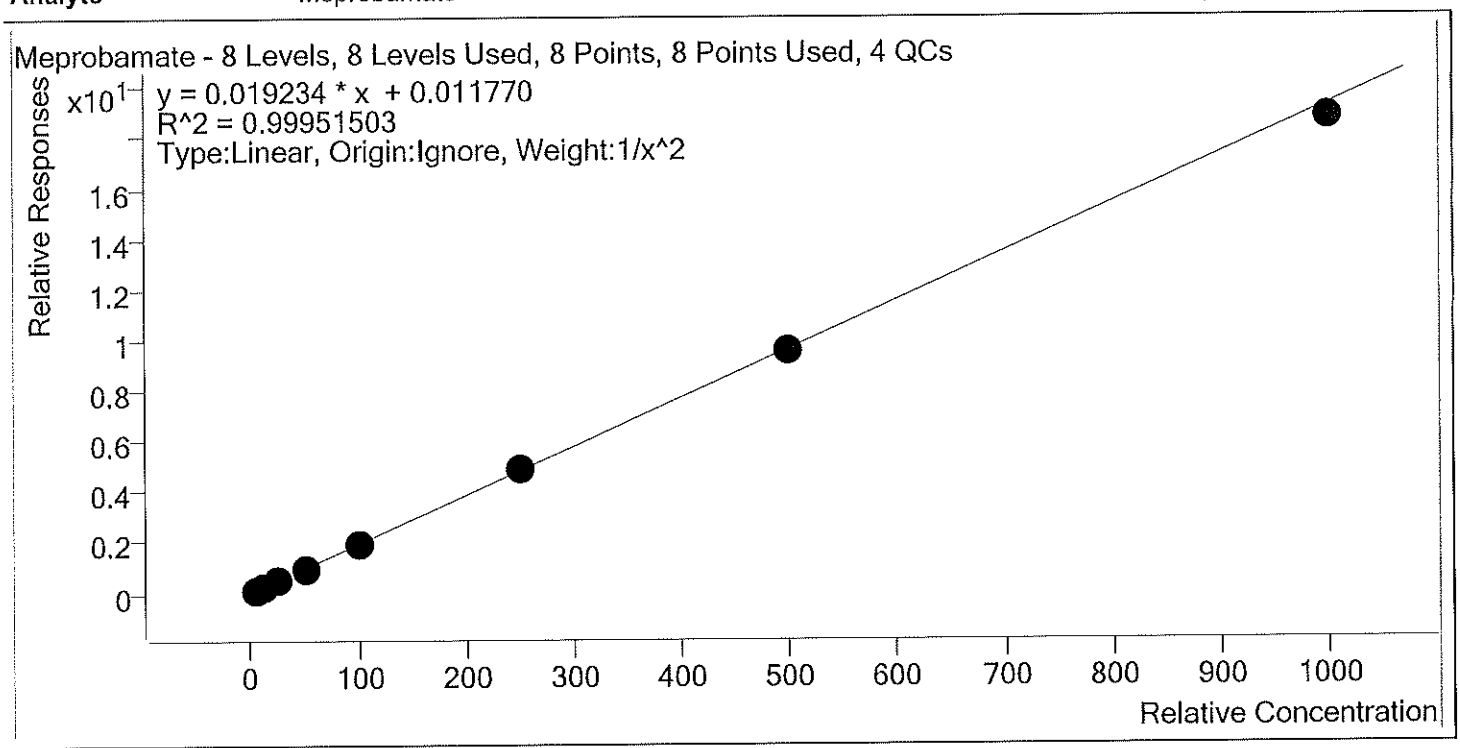
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Meprobamate **Internal Standard** Meprobamate-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng_r	2	✓	10.0	10.2	102.5
p1 Cal 3 -25ng_r	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.4	100.7
p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng	6	✓	250.0	257.0	102.8
p1 Cal 7-500ng	7	✓	500.0	493.6	98.7
p1 Cal 8-1000ng	8	✓	1000.0	974.1	97.4

TS

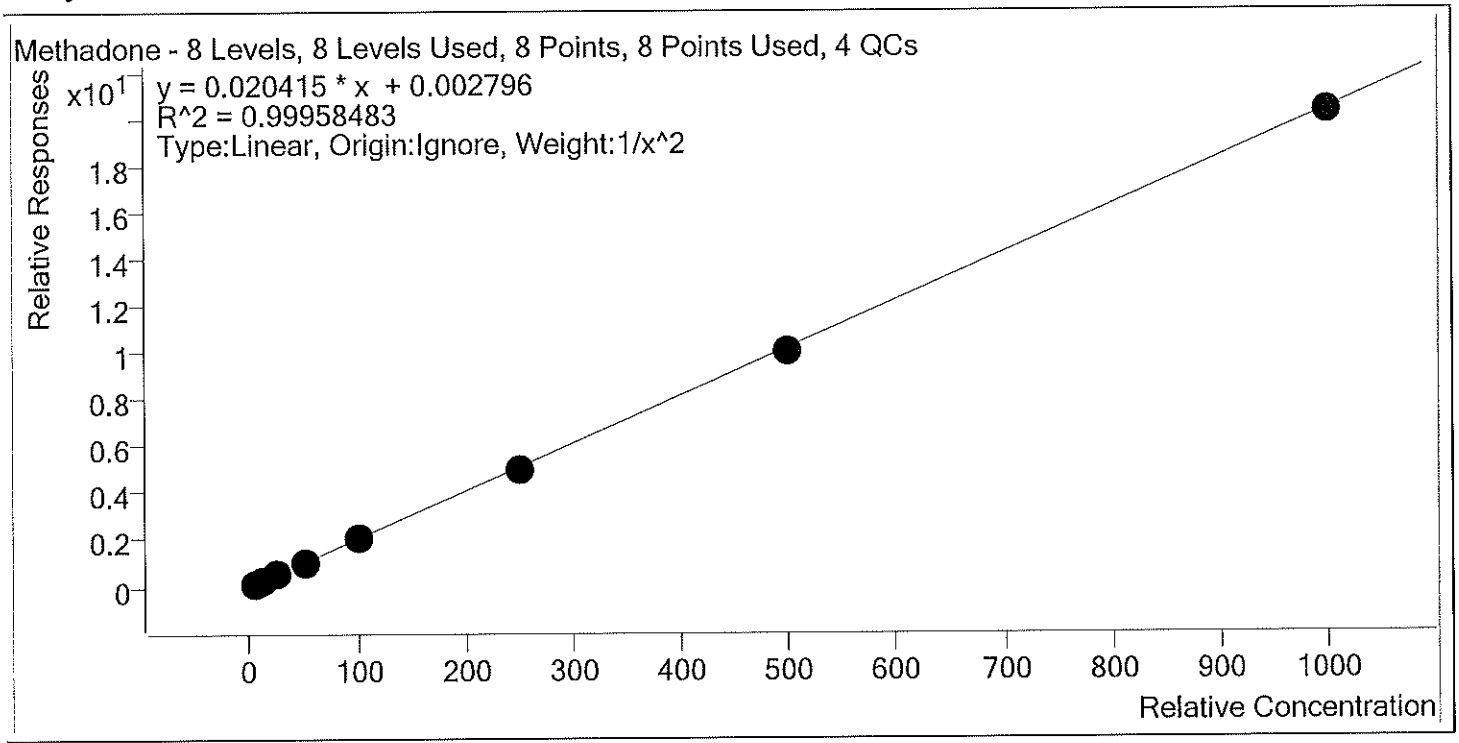
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Methadone **Internal Standard** Methadone-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng_r	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng_r	3	✓	25.0	25.1	100.6
p1 Cal 4-50ng	4	✓	50.0	51.8	103.6
p1 Cal 5-100ng	5	✓	100.0	100.8	100.8
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	488.9	97.8
p1 Cal 8-1000ng	8	✓	1000.0	994.9	99.5

TS

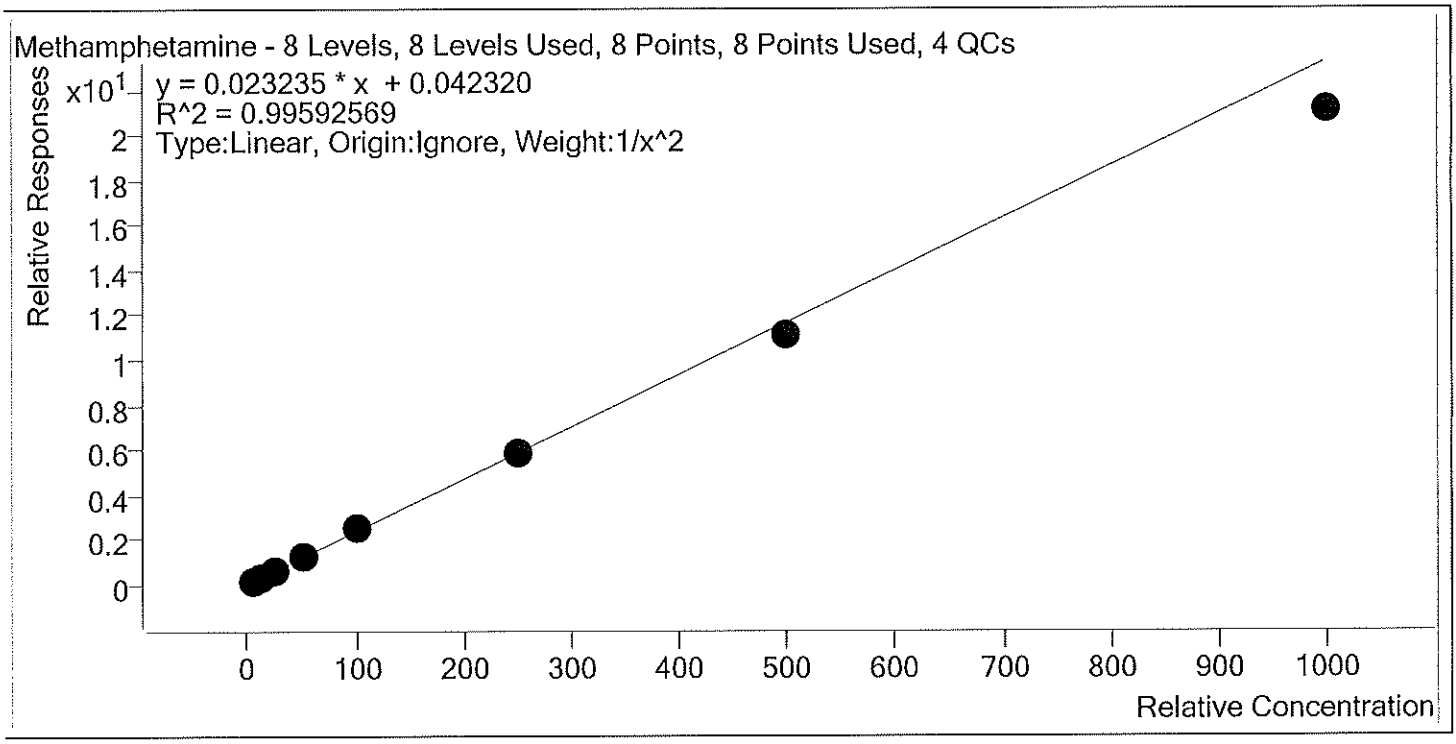
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Methamphetamine **Internal Standard** Methamphetamine-D11



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.4
p1 Cal 2- 10ng_r	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng_r	3	✓	25.0	26.7	106.8
p1 Cal 4-50ng	4	✓	50.0	53.4	106.9
p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
p1 Cal 6-250ng	6	✓	250.0	248.4	99.4
p1 Cal 7-500ng	7	✓	500.0	477.7	95.5
p1 Cal 8-1000ng	8	✓	1000.0	906.6	90.7

TS

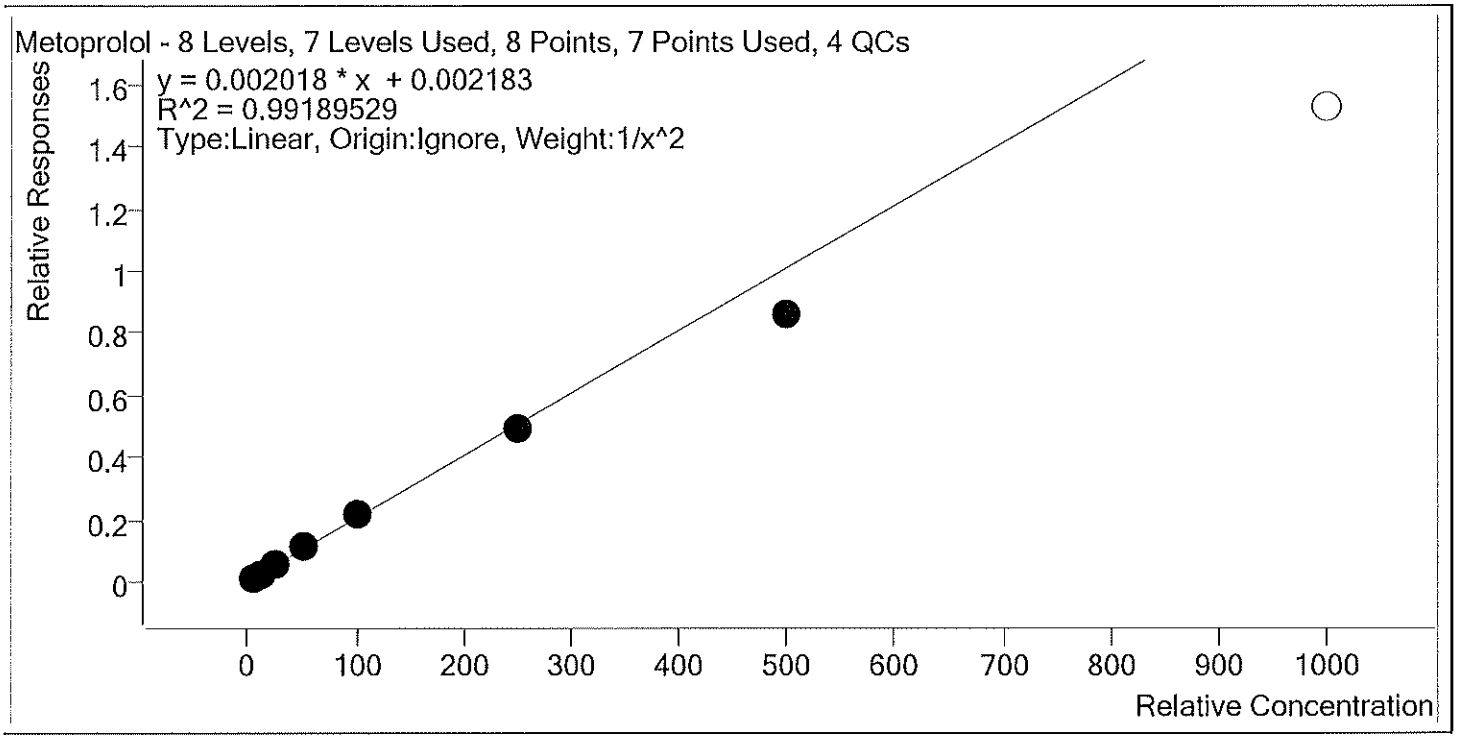
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Metoprolol **Internal Standard** Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.8	96.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng_r	3	✓	25.0	26.6	106.3
p1 Cal 4-50ng	4	✓	50.0	53.5	106.9
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	243.3	97.3
p1 Cal 7-500ng	7	✓	500.0	426.7	85.3
p1 Cal 8-1000ng	8	×	1000.0	756.4	75.6

TS

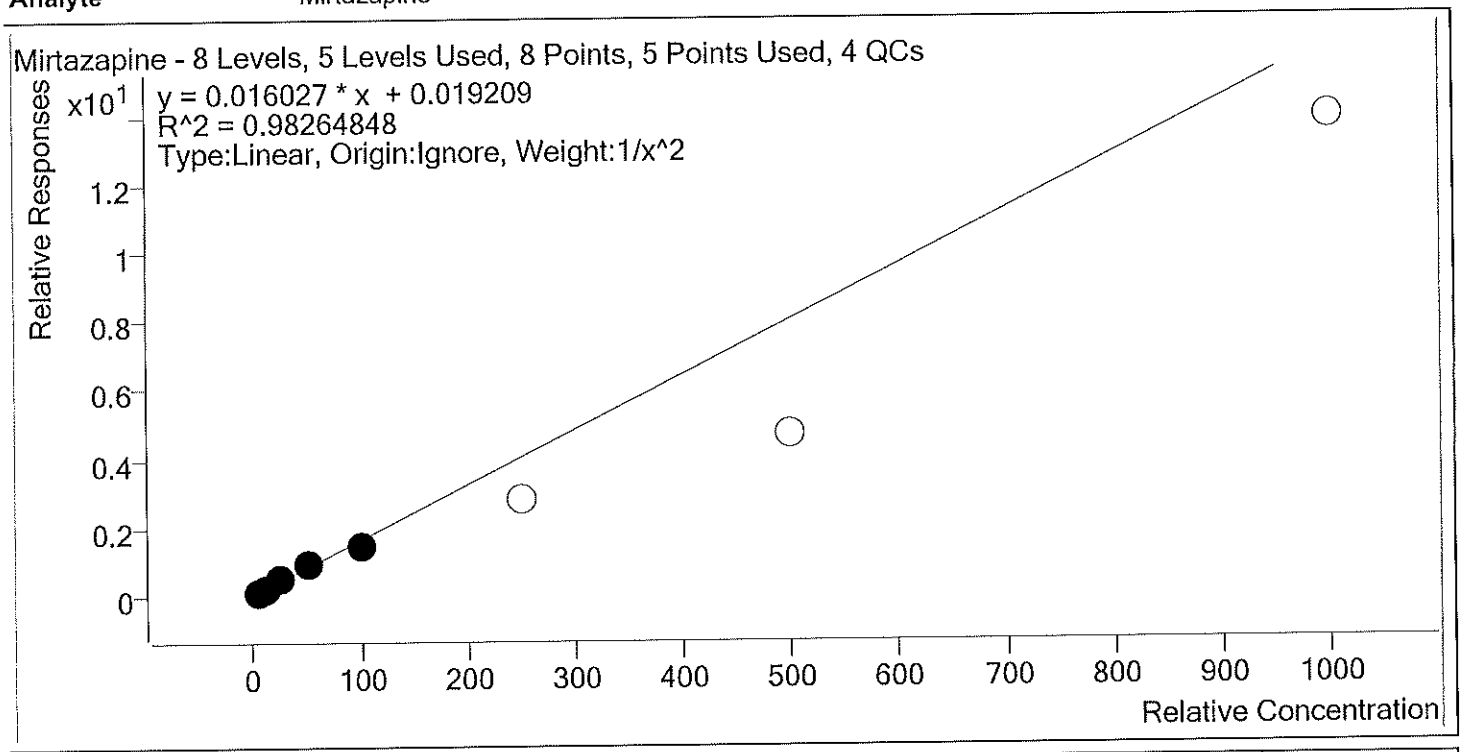
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

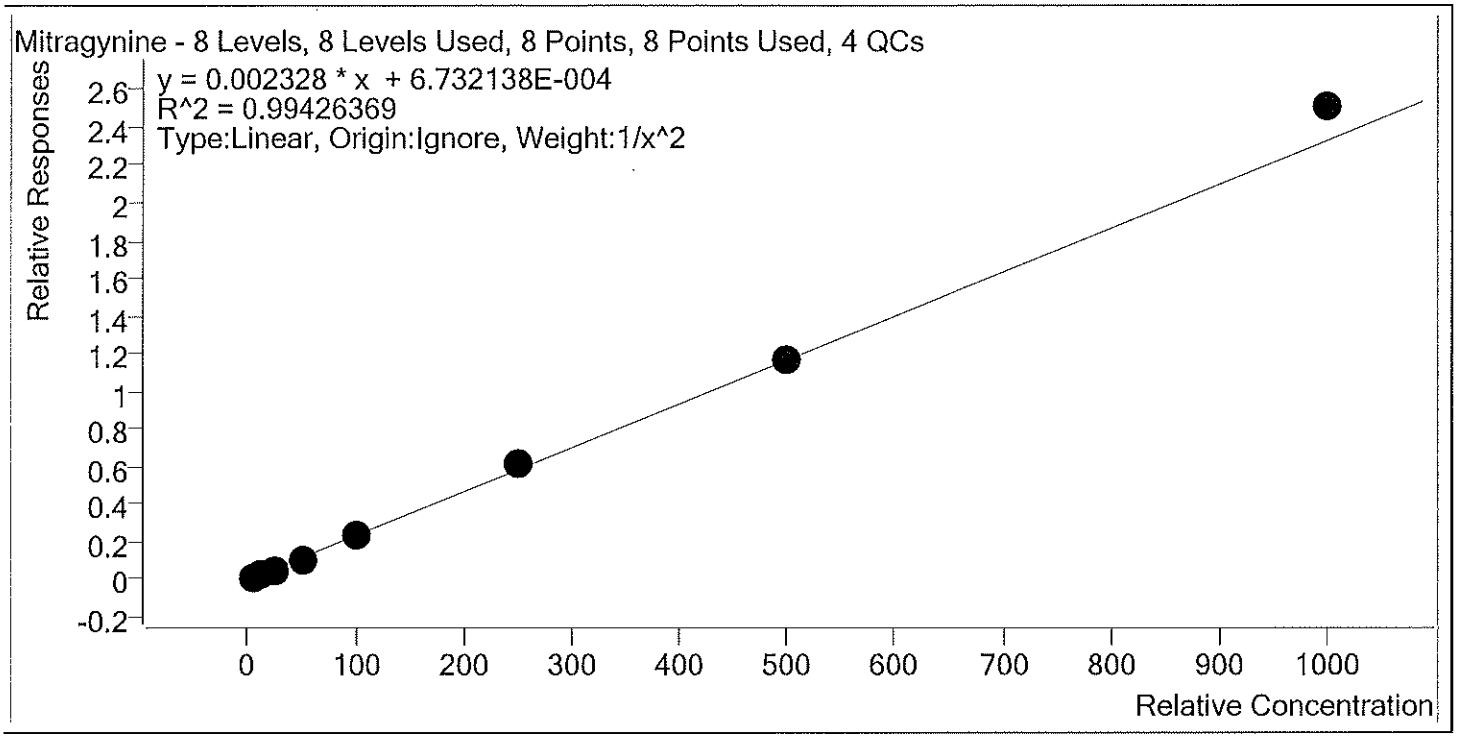


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng_r	2	✓	10.0	9.3	93.1
p1 Cal 3 -25ng_r	3	✓	25.0	28.2	112.7
p1 Cal 4-50ng	4	✓	50.0	53.1	106.3
p1 Cal 5-100ng	5	✓	100.0	87.0	87.0
p1 Cal 6-250ng	6	×	250.0	176.3	70.5
p1 Cal 7-500ng	7	×	500.0	289.7	57.9
p1 Cal 8-1000ng	8	×	1000.0	865.0	86.5

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

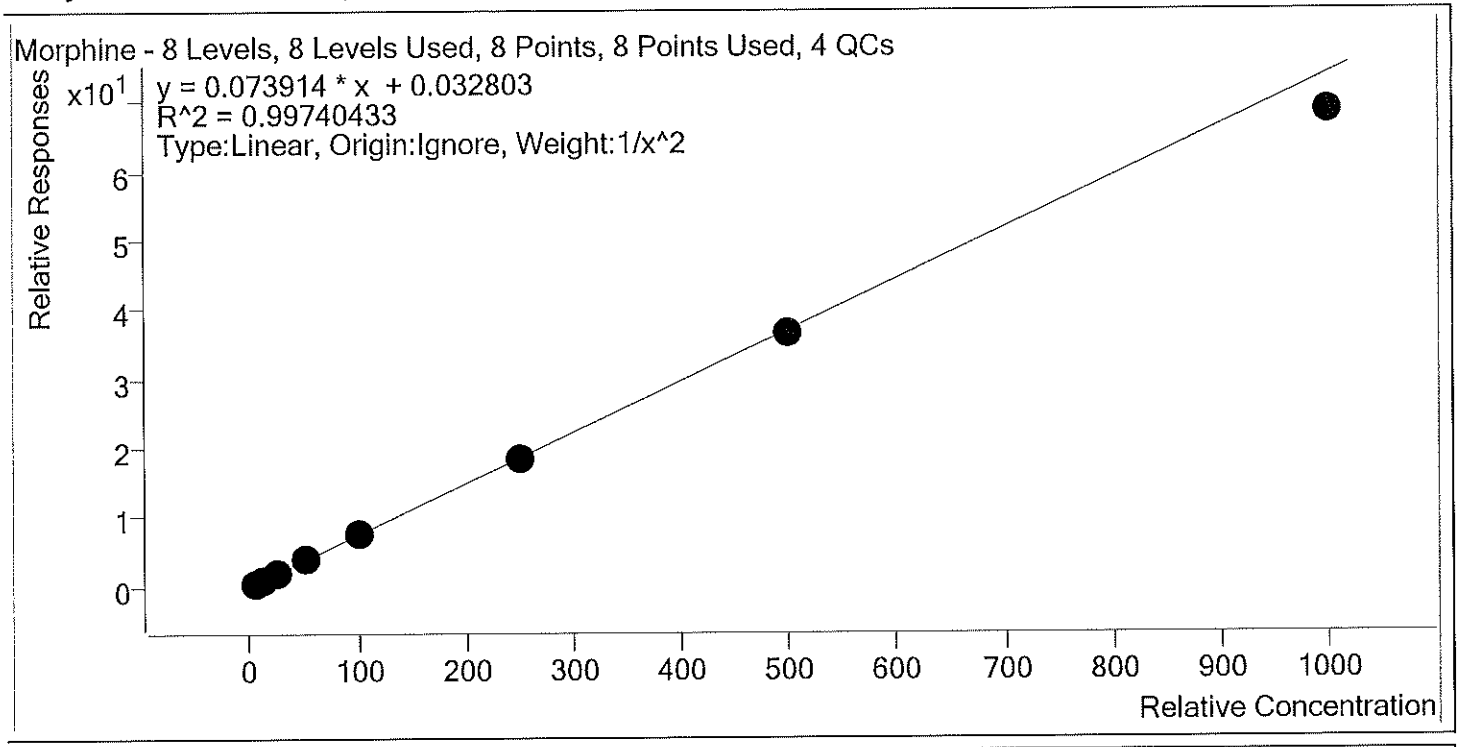
Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Mitragynine
Internal Standard	Methadone-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng_r	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng_r	3	✓	25.0	22.1	88.3
p1 Cal 4-50ng	4	✓	50.0	46.5	93.0
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	264.0	105.6
p1 Cal 7-500ng	7	✓	500.0	503.7	100.7
p1 Cal 8-1000ng	8	✓	1000.0	1077.4	107.7

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Morphine
Internal Standard	Morphine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng_r	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	54.4	108.9
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	491.0	98.2
p1 Cal 8-1000ng	8	✓	1000.0	927.2	92.7

TS

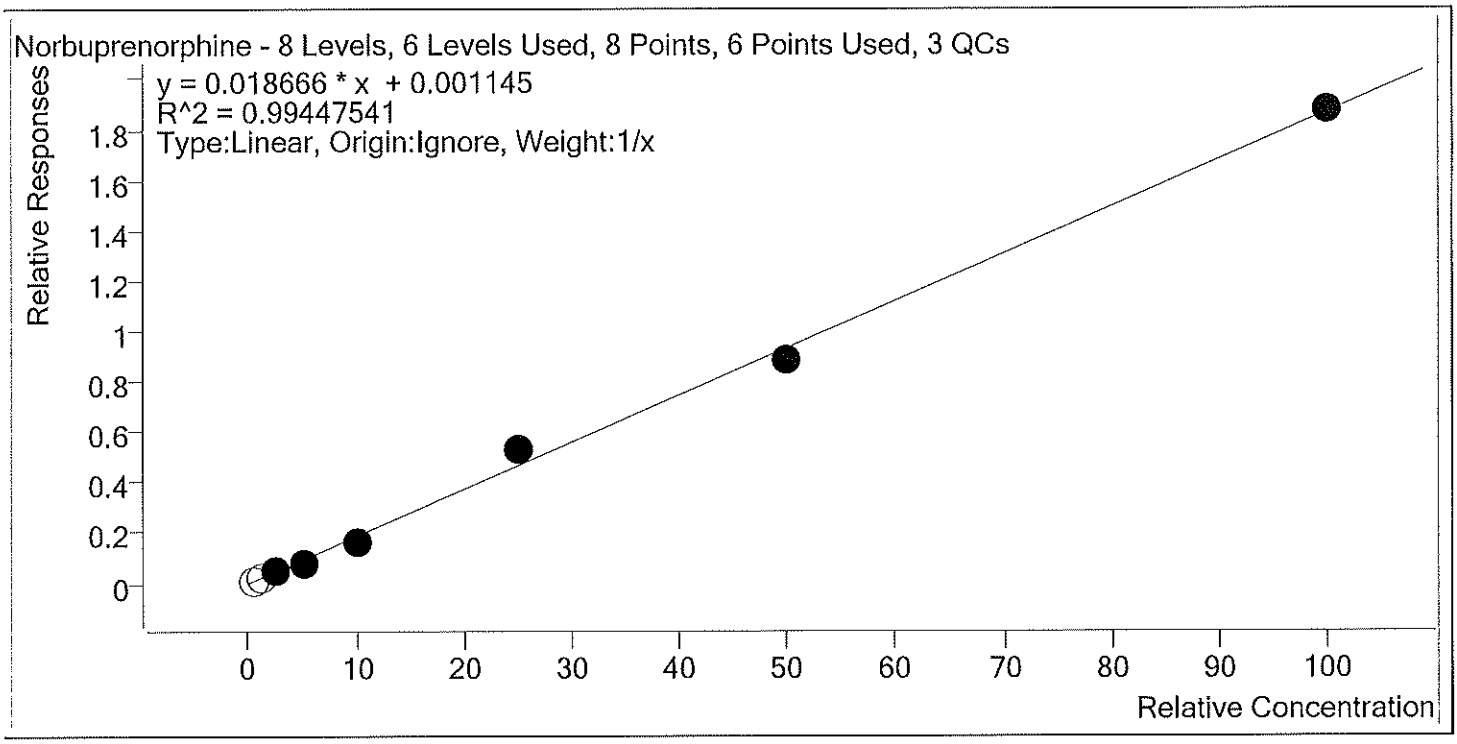
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	×	0.5	0.5	104.3
p1 Cal 2- 10ng_r	2	×	1.0	1.3	133.7
p1 Cal 3 -25ng_r	3	✓	2.5	2.9	114.7
p1 Cal 4-50ng	4	✓	5.0	4.3	85.8
p1 Cal 5-100ng	5	✓	10.0	9.1	90.8
p1 Cal 6-250ng	6	✓	25.0	28.3	113.3
p1 Cal 7-500ng	7	✓	50.0	47.5	94.9
p1 Cal 8-1000ng	8	✓	100.0	100.5	100.5

TS

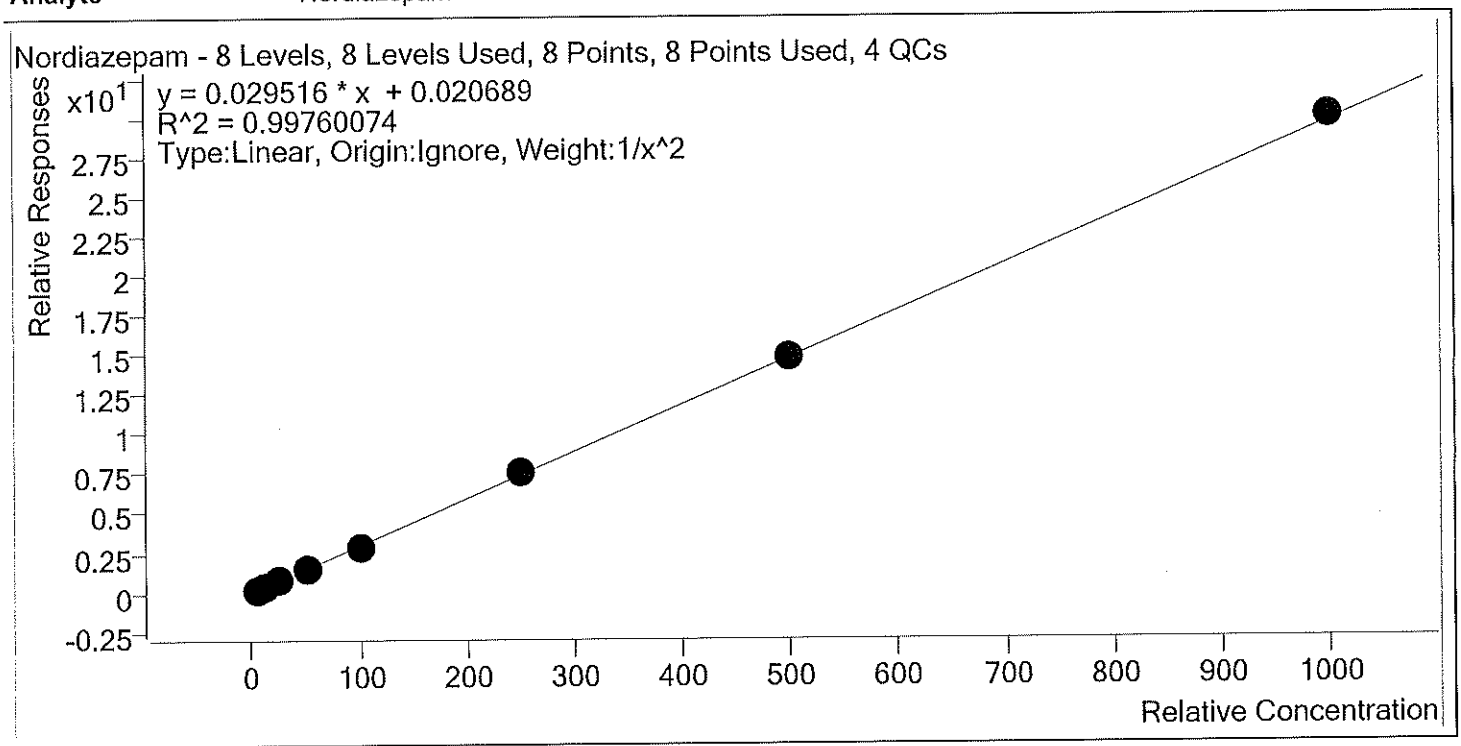
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

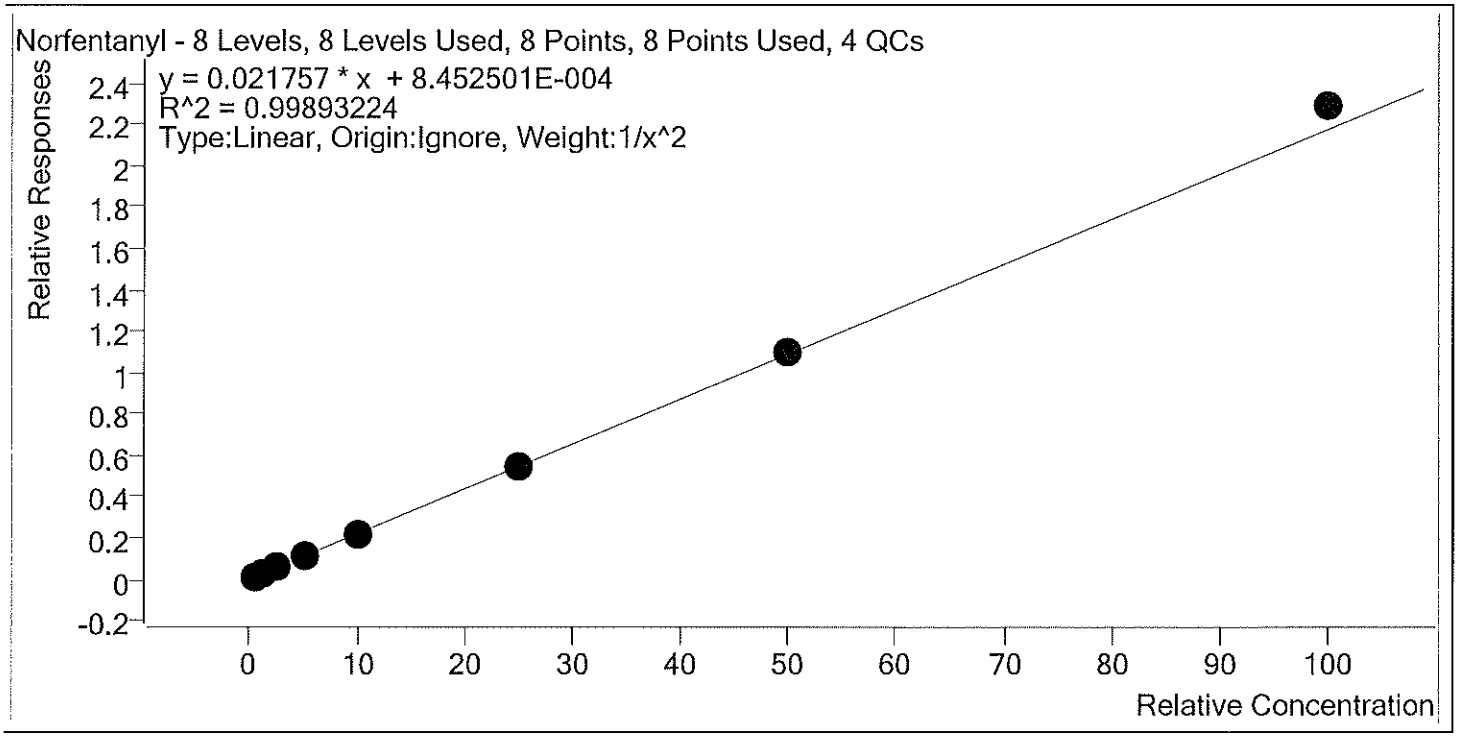
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.2	104.5
p1 Cal 2- 10ng_r	2	✓	10.0	9.1	90.5
p1 Cal 3 -25ng_r	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	51.0	101.9
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	256.9	102.8
p1 Cal 7-500ng	7	✓	500.0	502.5	100.5
p1 Cal 8-1000ng	8	✓	1000.0	1013.2	101.3

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Norfentanyl
Internal Standard	Norfentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	0.5	0.5	101.4
p1 Cal 2- 10ng_r	2	✓	1.0	1.0	99.0
p1 Cal 3 -25ng_r	3	✓	2.5	2.4	95.9
p1 Cal 4-50ng	4	✓	5.0	5.0	100.3
p1 Cal 5-100ng	5	✓	10.0	9.7	97.1
p1 Cal 6-250ng	6	✓	25.0	25.1	100.5
p1 Cal 7-500ng	7	✓	50.0	50.4	100.7
p1 Cal 8-1000ng	8	✓	100.0	105.2	105.2

TS

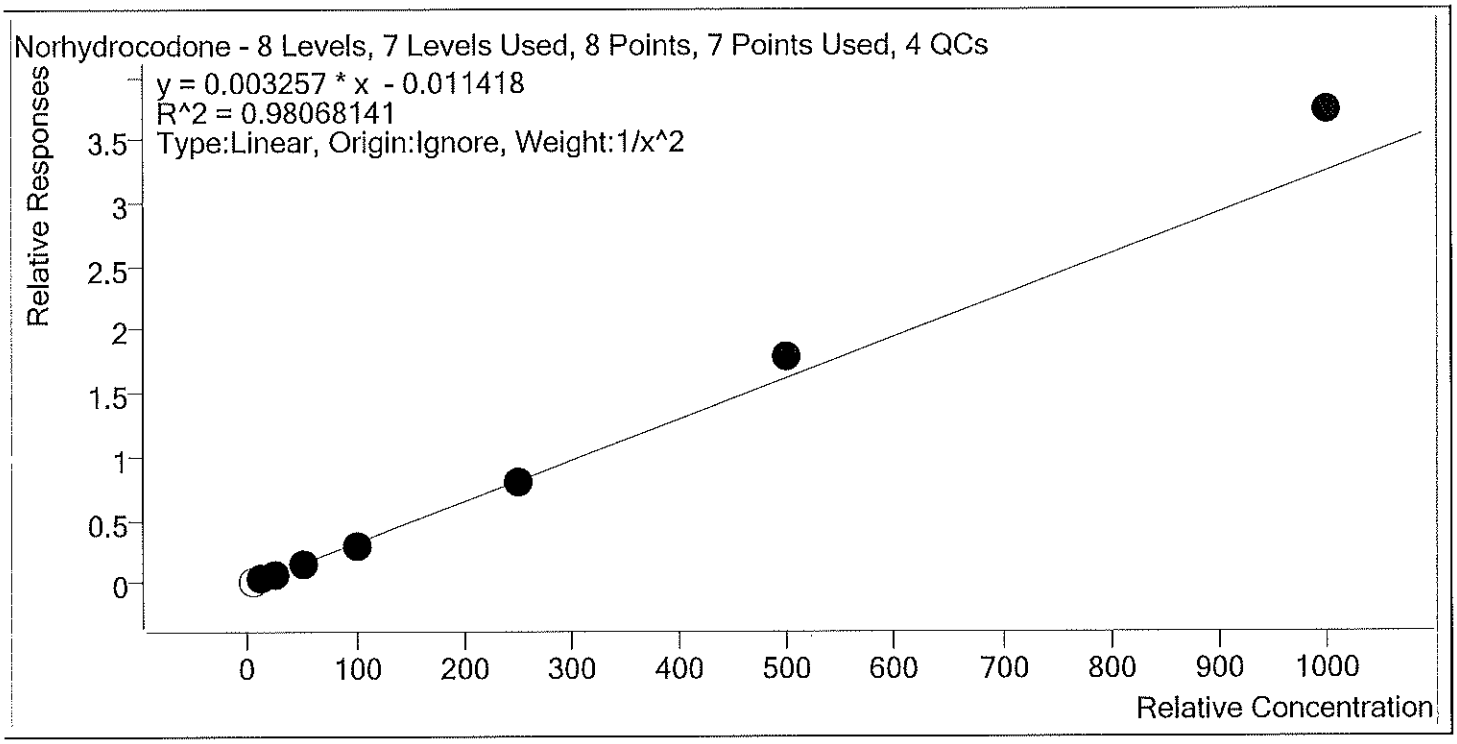
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

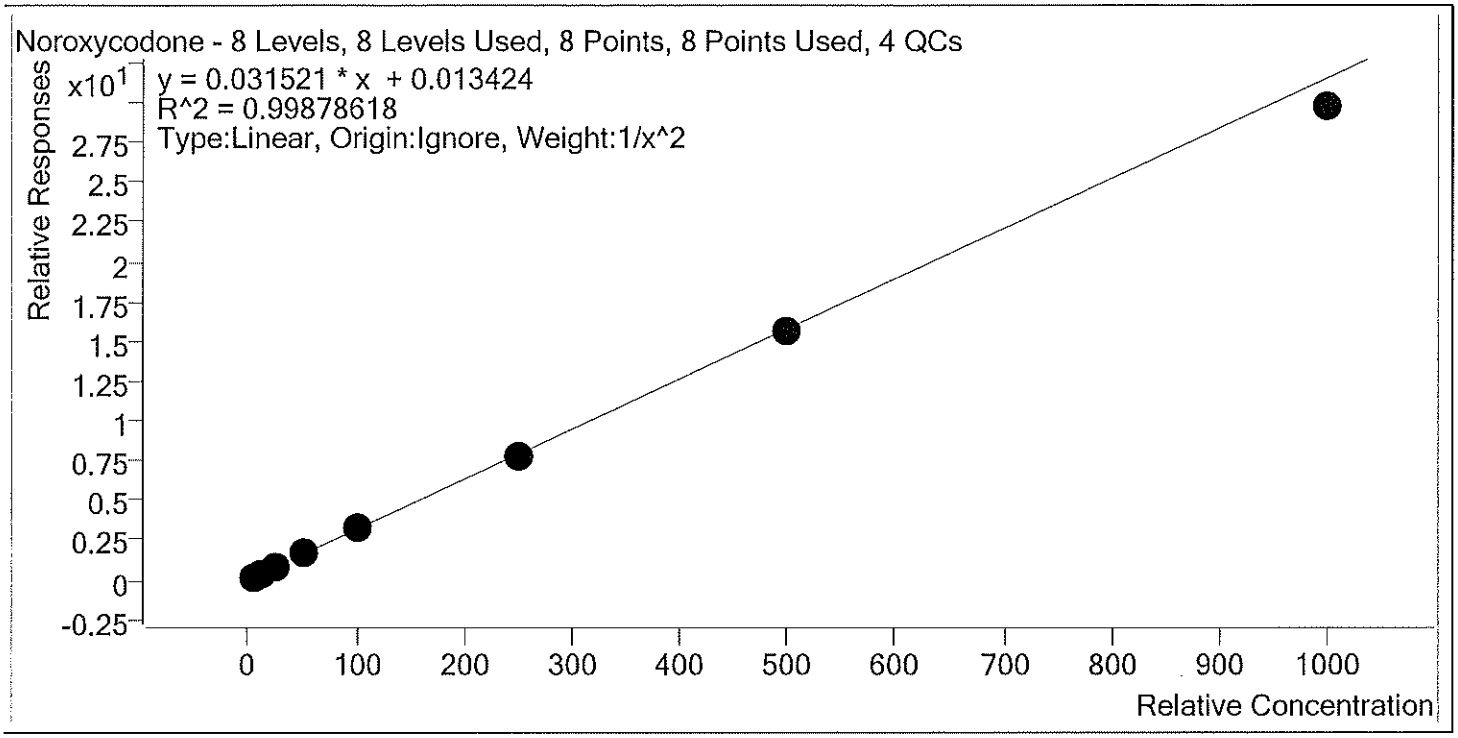


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	×	5.0	7.0	139.9
p1 Cal 2- 10ng_r	2	✓	10.0	10.9	108.9
p1 Cal 3 -25ng_r	3	✓	25.0	20.9	83.8
p1 Cal 4-50ng	4	✓	50.0	45.4	90.8
p1 Cal 5-100ng	5	✓	100.0	90.1	90.1
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	555.8	111.2
p1 Cal 8-1000ng	8	✓	1000.0	1148.1	114.8

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

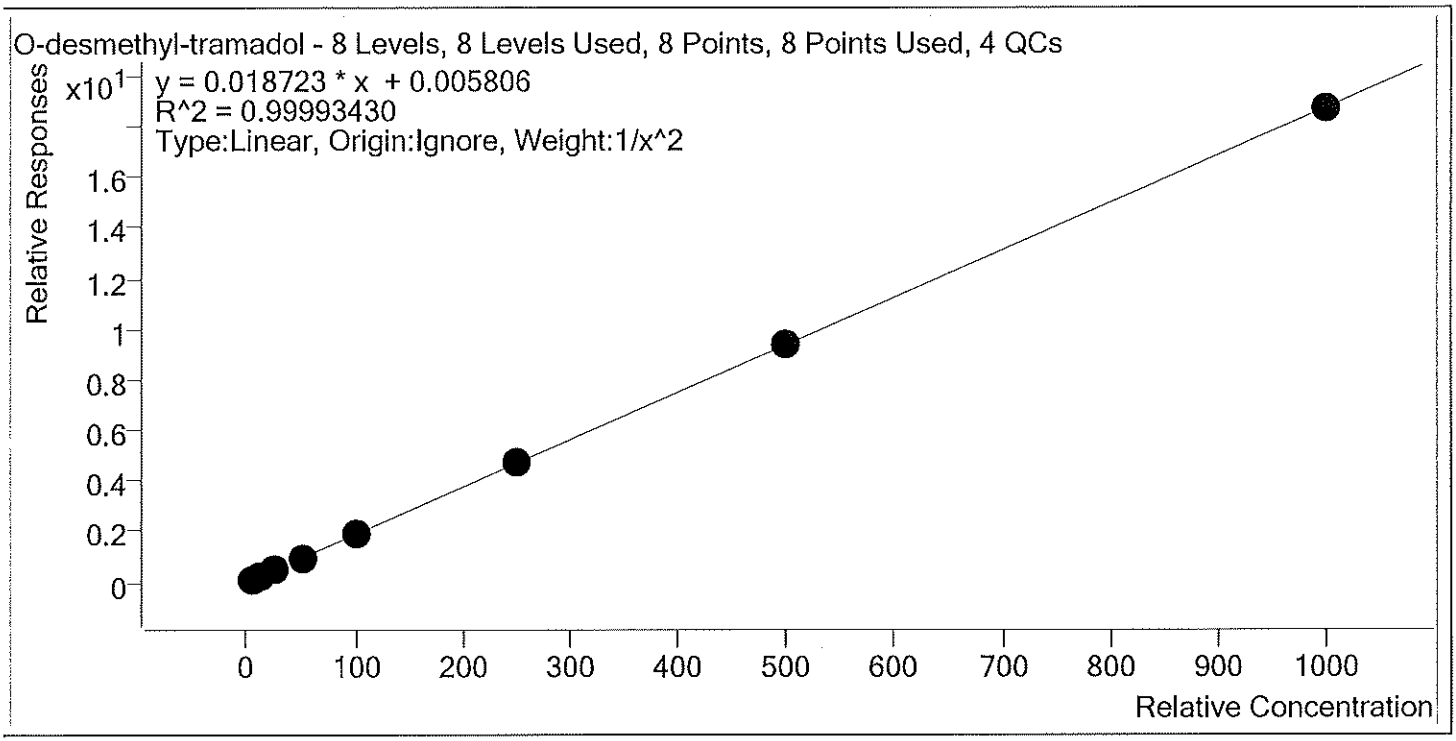
Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Noroxycodone
Internal Standard	Noroxycodone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.1
p1 Cal 2- 10ng_r	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng_r	3	✓	25.0	25.9	103.4
p1 Cal 4-50ng	4	✓	50.0	51.6	103.1
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	249.1	99.6
p1 Cal 7-500ng	7	✓	500.0	492.6	98.5
p1 Cal 8-1000ng	8	✓	1000.0	943.1	94.3

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	O-desmethyl-tramadol
Internal Standard	O-desmethyl-tramadol-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng_r	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng_r	3	✓	25.0	25.0	100.1
p1 Cal 4-50ng	4	✓	50.0	50.6	101.2
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	497.9	99.6
p1 Cal 8-1000ng	8	✓	1000.0	998.1	99.8

TS

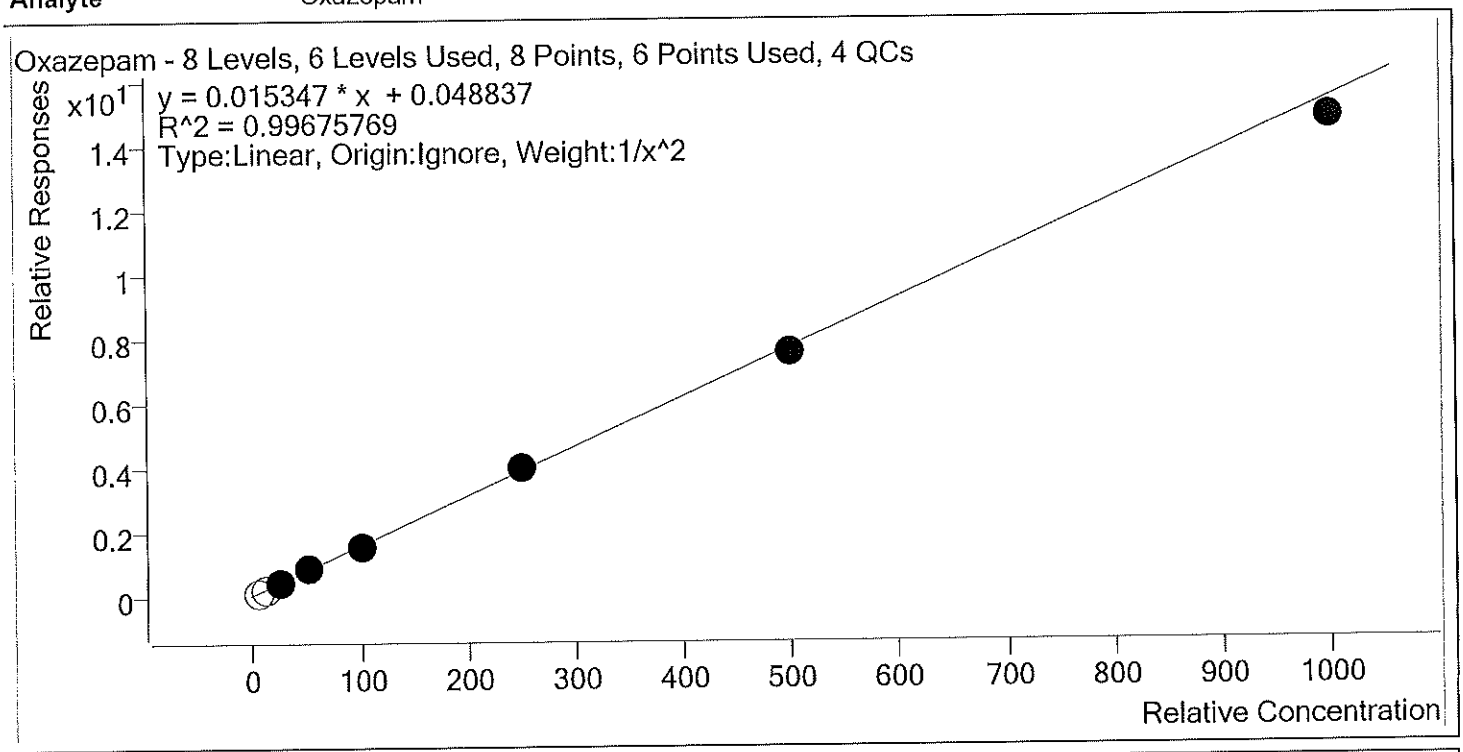
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Oxazepam **Internal Standard** Oxazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	×	5.0	3.5	70.7
p1 Cal 2- 10ng_r	2	×	10.0	8.6	86.3
p1 Cal 3 -25ng_r	3	✓	25.0	24.0	96.1
p1 Cal 4-50ng	4	✓	50.0	54.1	108.2
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	254.6	101.9
p1 Cal 7-500ng	7	✓	500.0	492.4	98.5
p1 Cal 8-1000ng	8	✓	1000.0	961.4	96.1

TS

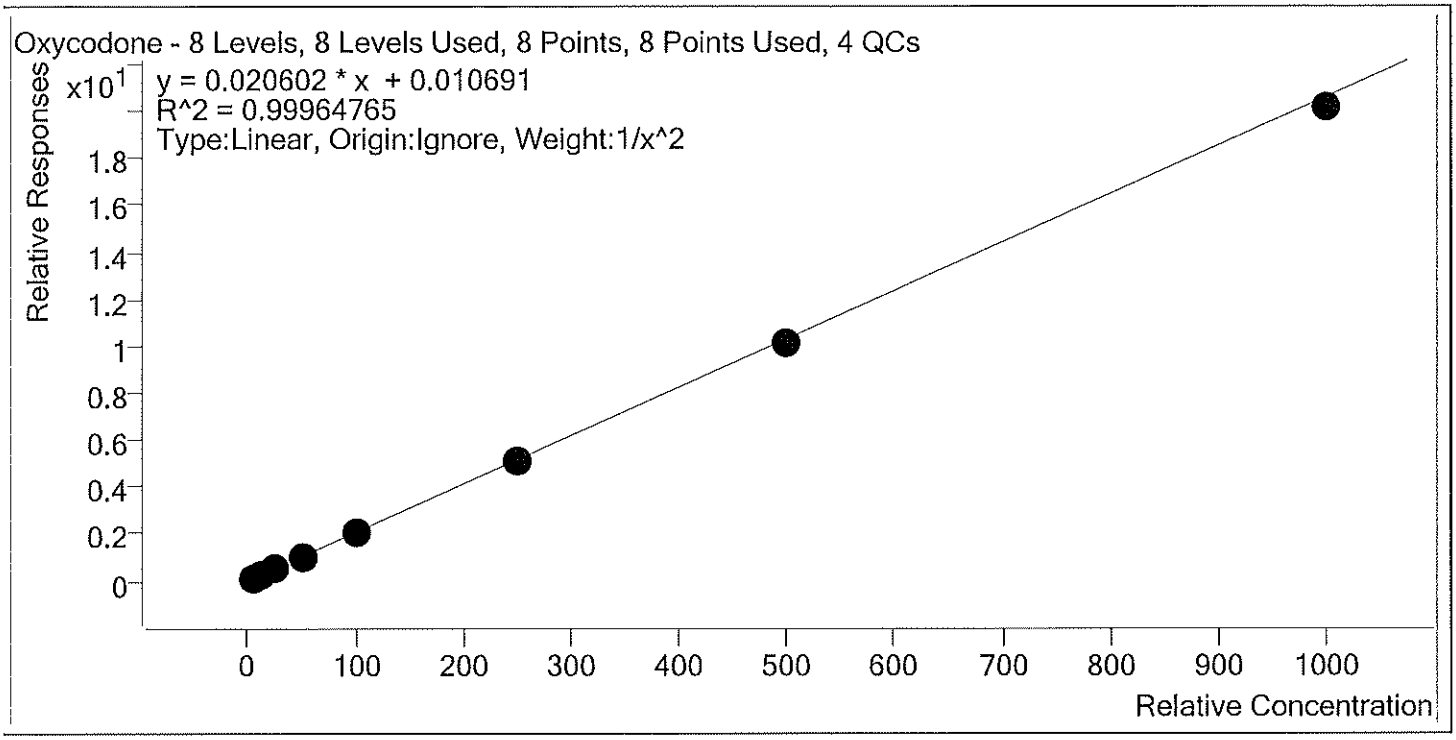
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Oxycodone **Internal Standard** Oxycodone-D6

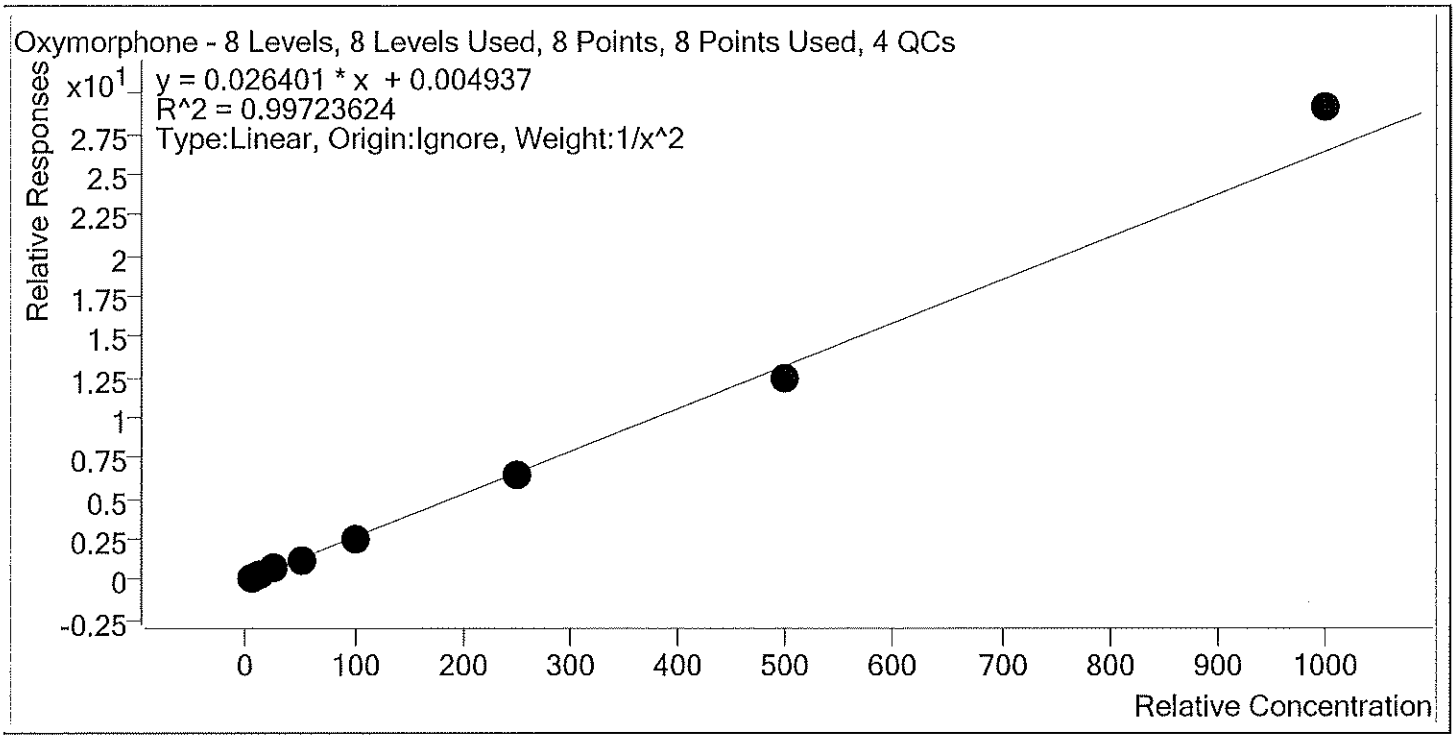


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng_r	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	51.7	103.4
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	493.1	98.6
p1 Cal 8-1000ng	8	✓	1000.0	977.9	97.8

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Oxymorphone
Internal Standard	Oxymorphone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng_r	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	247.8	99.1
p1 Cal 7-500ng	7	✓	500.0	471.6	94.3
p1 Cal 8-1000ng	8	✓	1000.0	1103.1	110.3

TS

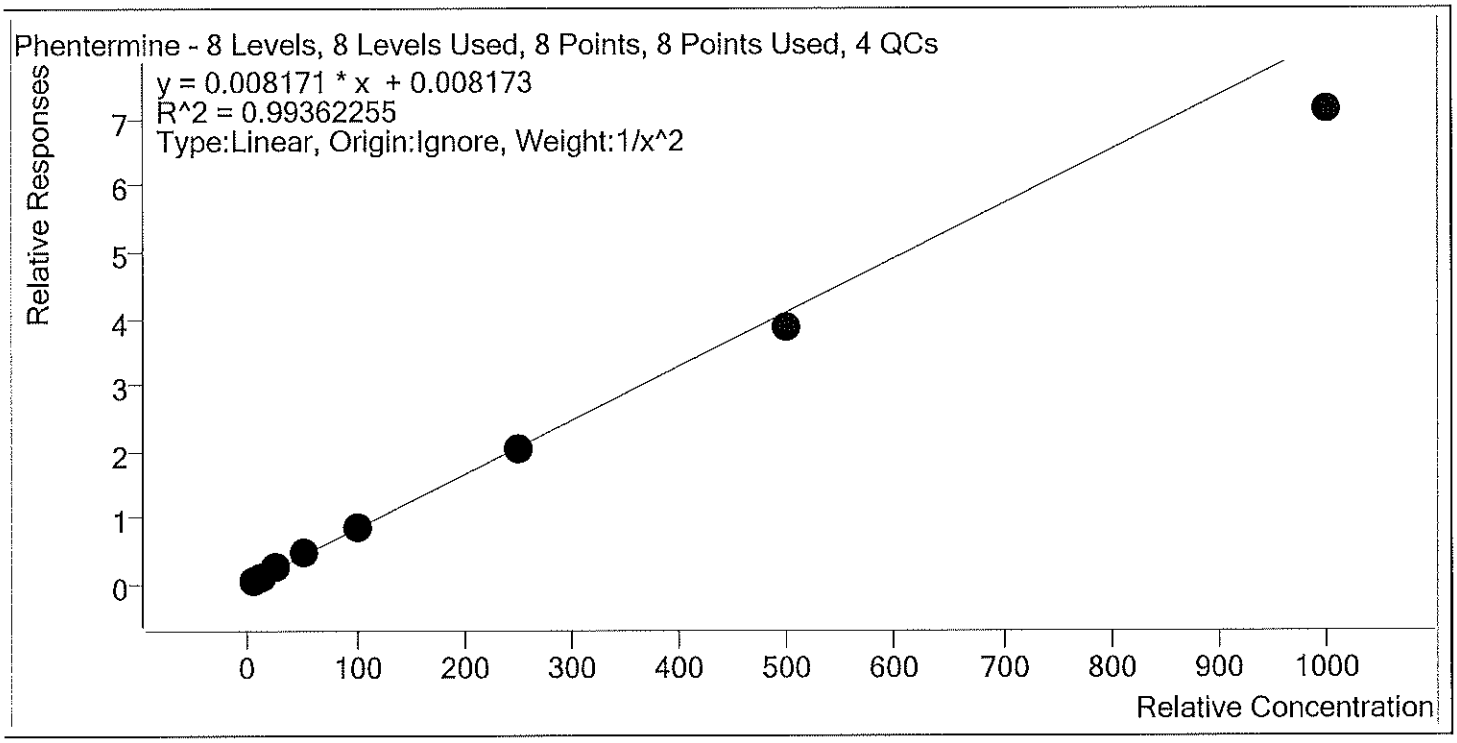
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Phentermine **Internal Standard** Phentermine-D5

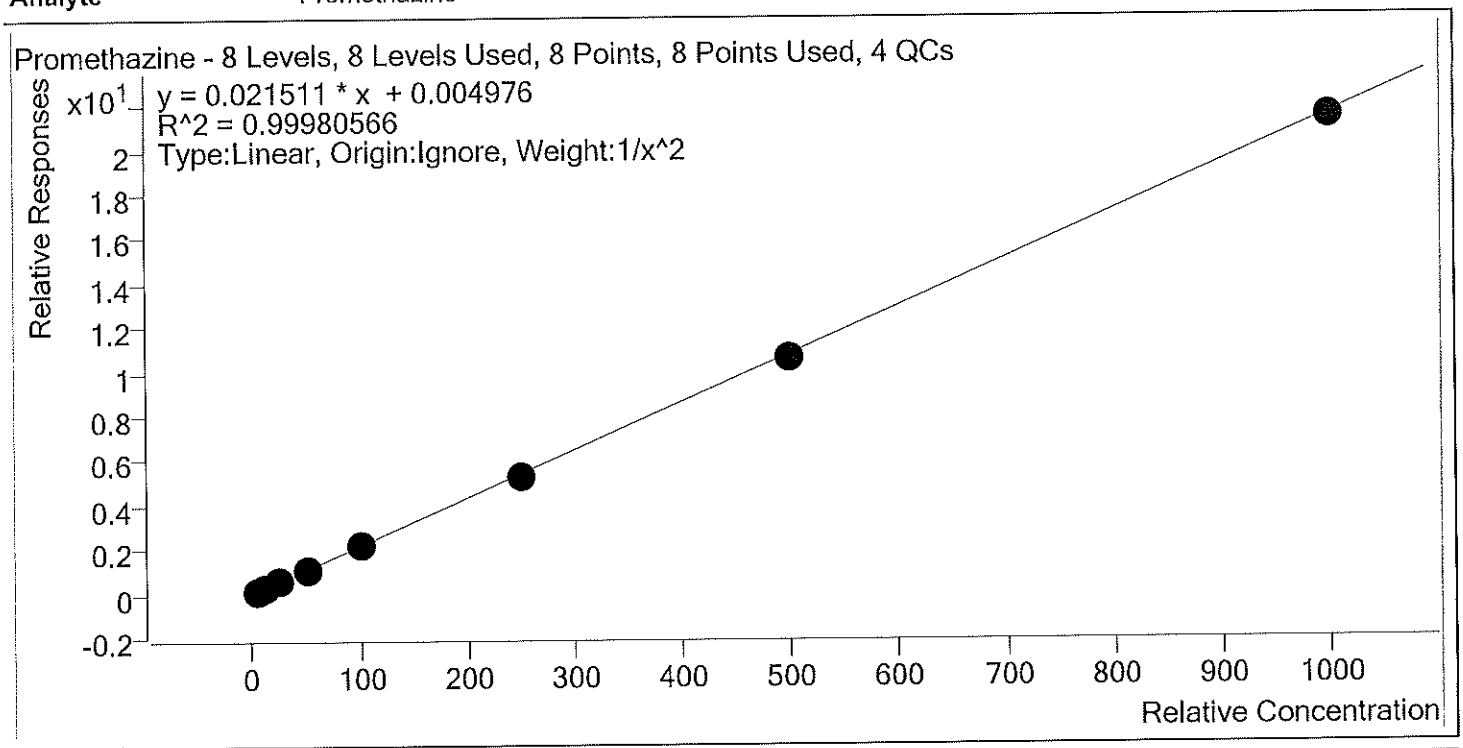


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng r	1	✓	5.0	4.9	97.2
p1 Cal 2- 10ng r	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng r	3	✓	25.0	26.9	107.4
p1 Cal 4-50ng	4	✓	50.0	54.2	108.4
p1 Cal 5-100ng	5	✓	100.0	104.2	104.2
p1 Cal 6-250ng	6	✓	250.0	249.7	99.9
p1 Cal 7-500ng	7	✓	500.0	473.8	94.8
p1 Cal 8-1000ng	8	✓	1000.0	873.8	87.4

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Promethazine
Internal Standard	Promethazine-D3

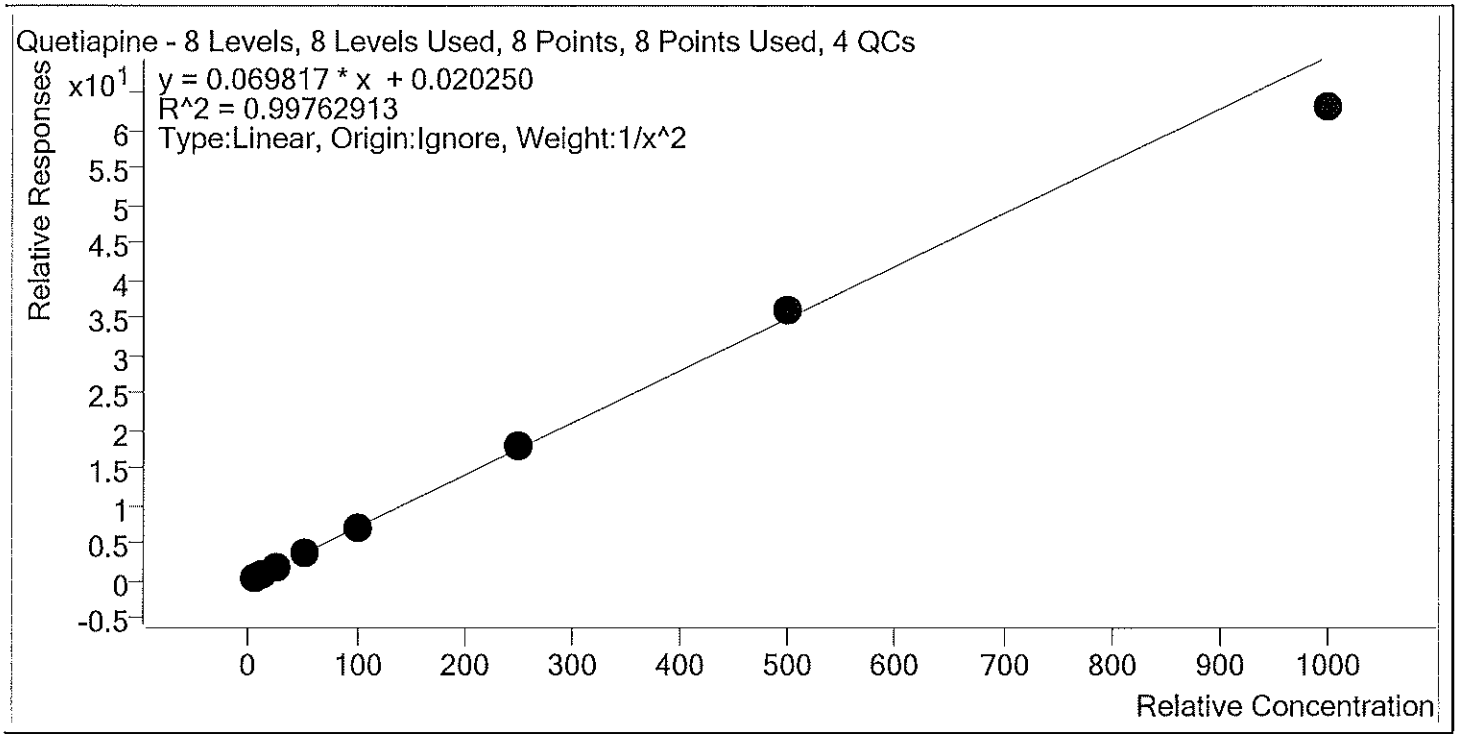


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.0	99.1
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng_r	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	50.9	101.7
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	247.3	98.9
p1 Cal 7-500ng	7	✓	500.0	495.0	99.0
p1 Cal 8-1000ng	8	✓	1000.0	993.7	99.4

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Quetiapine
Internal Standard	Quetiapine-D8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng_r	2	✓	10.0	10.2	101.7
p1 Cal 3 -25ng_r	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	49.5	99.0
p1 Cal 5-100ng	5	✓	100.0	102.3	102.3
p1 Cal 6-250ng	6	✓	250.0	255.9	102.4
p1 Cal 7-500ng	7	✓	500.0	518.8	103.8
p1 Cal 8-1000ng	8	✓	1000.0	904.2	90.4

TS

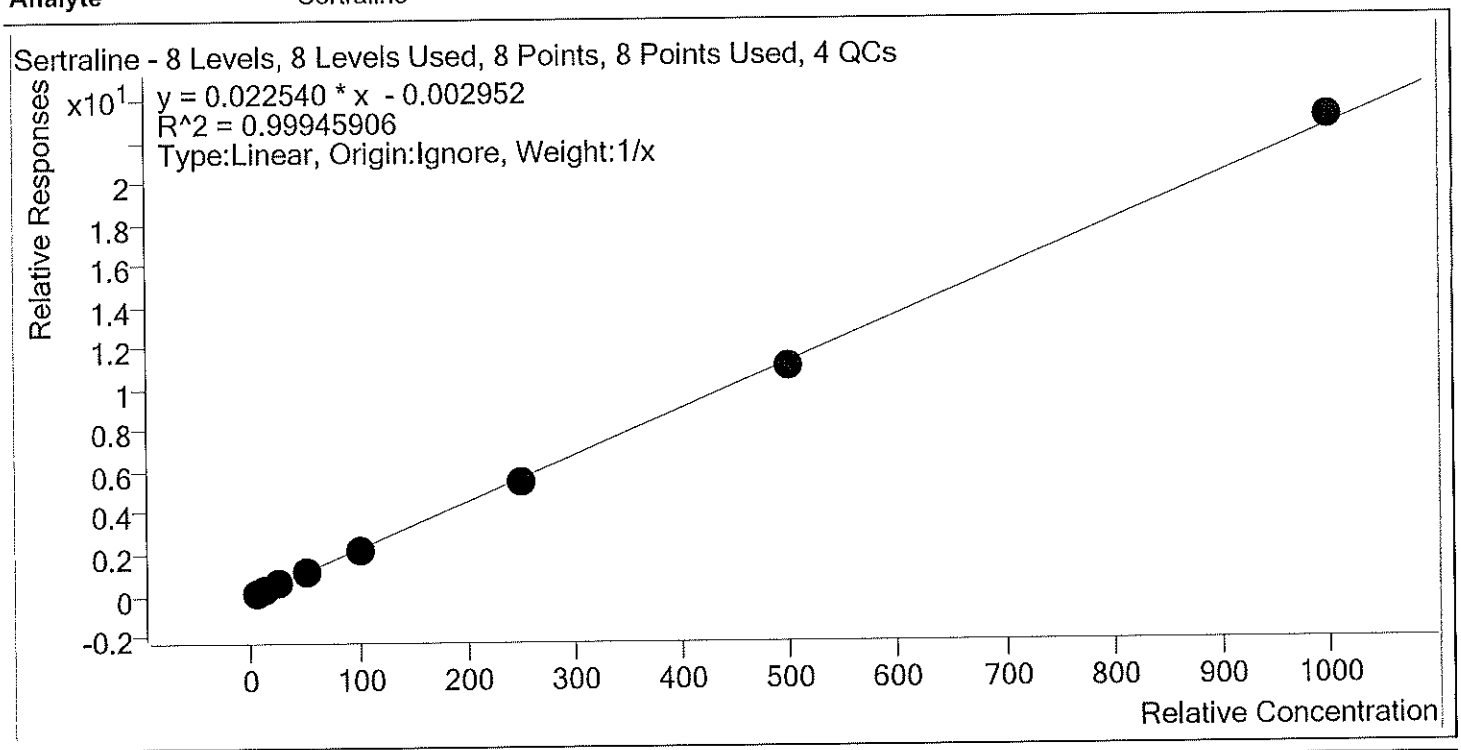
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Sertraline **Internal Standard** Sertraline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.3	106.3
p1 Cal 2- 10ng_r	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng_r	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	51.0	101.9
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	242.0	96.8
p1 Cal 7-500ng	7	✓	500.0	489.8	98.0
p1 Cal 8-1000ng	8	✓	1000.0	1019.8	102.0

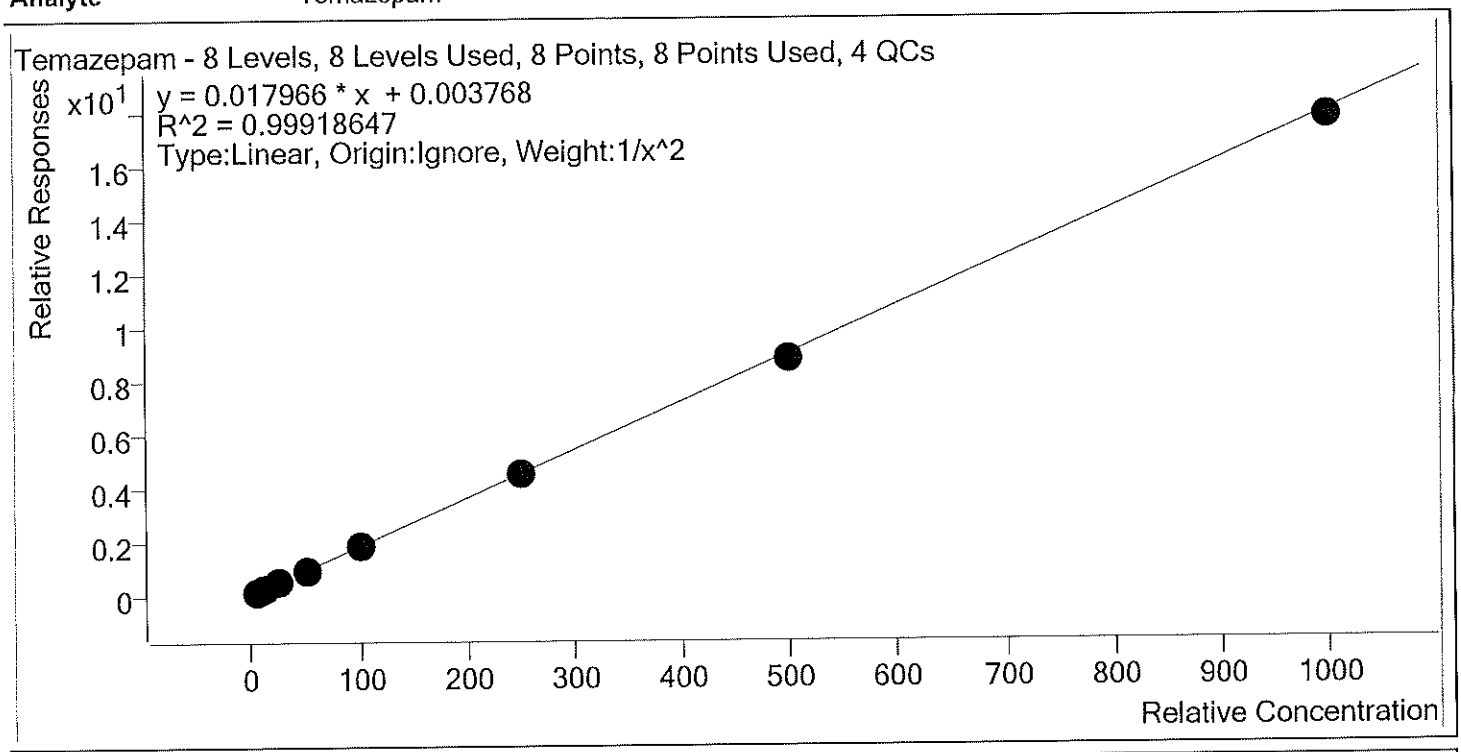
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Temazepam **Internal Standard** Temazepam-D5

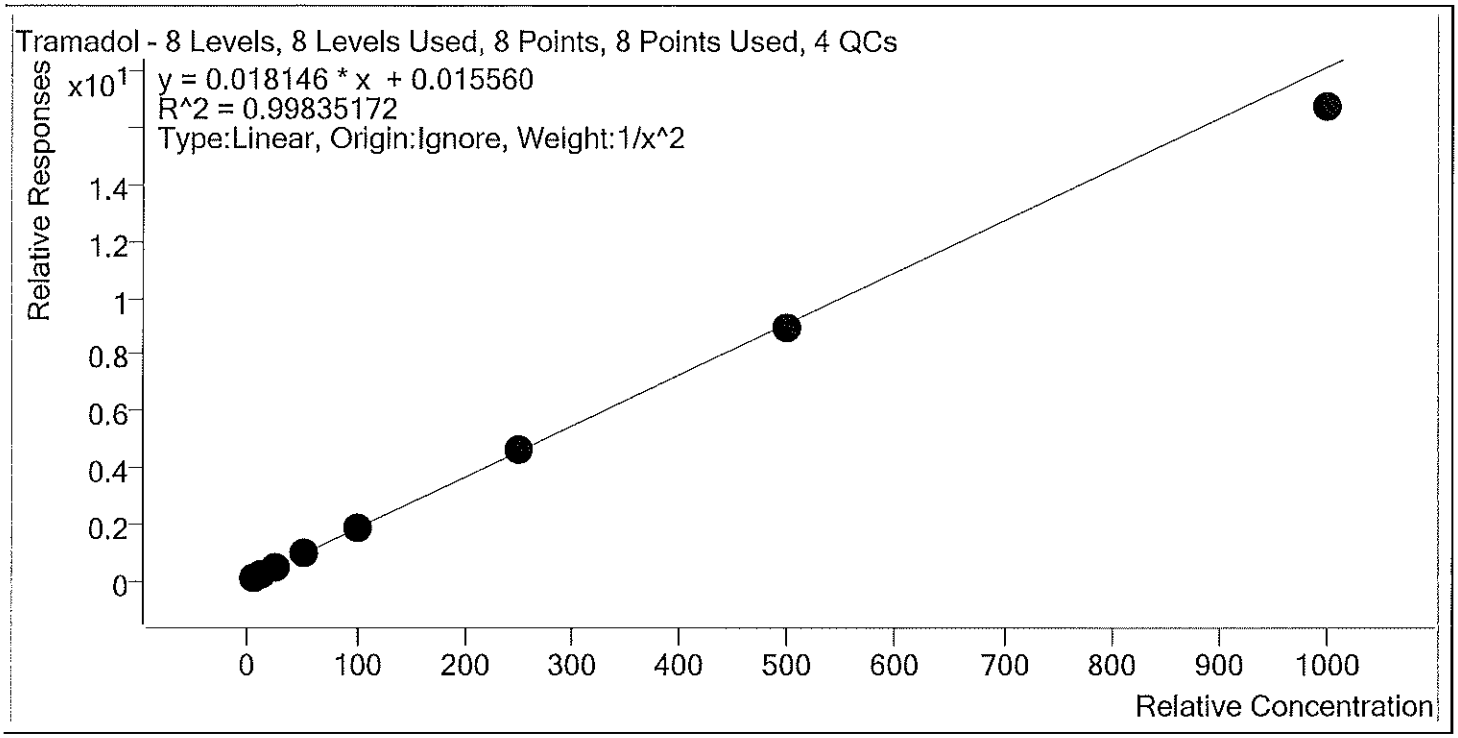


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng_r	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng_r	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	247.7	99.1
p1 Cal 7-500ng	7	✓	500.0	492.0	98.4
p1 Cal 8-1000ng	8	✓	1000.0	987.4	98.7

TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Tramadol
Internal Standard	Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng_r	3	✓	25.0	25.5	101.8
p1 Cal 4-50ng	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	256.2	102.5
p1 Cal 7-500ng	7	✓	500.0	492.8	98.6
p1 Cal 8-1000ng	8	✓	1000.0	922.7	92.3

TS

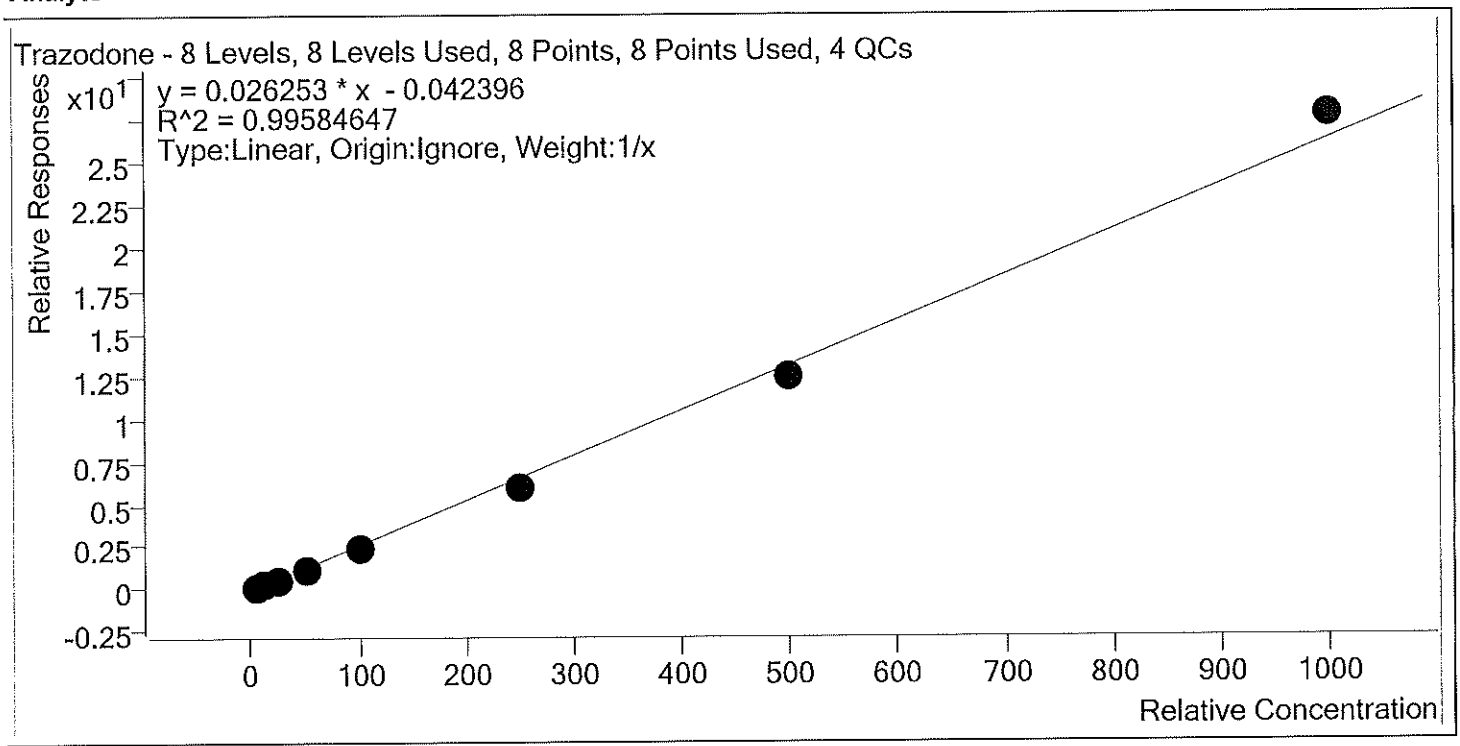
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

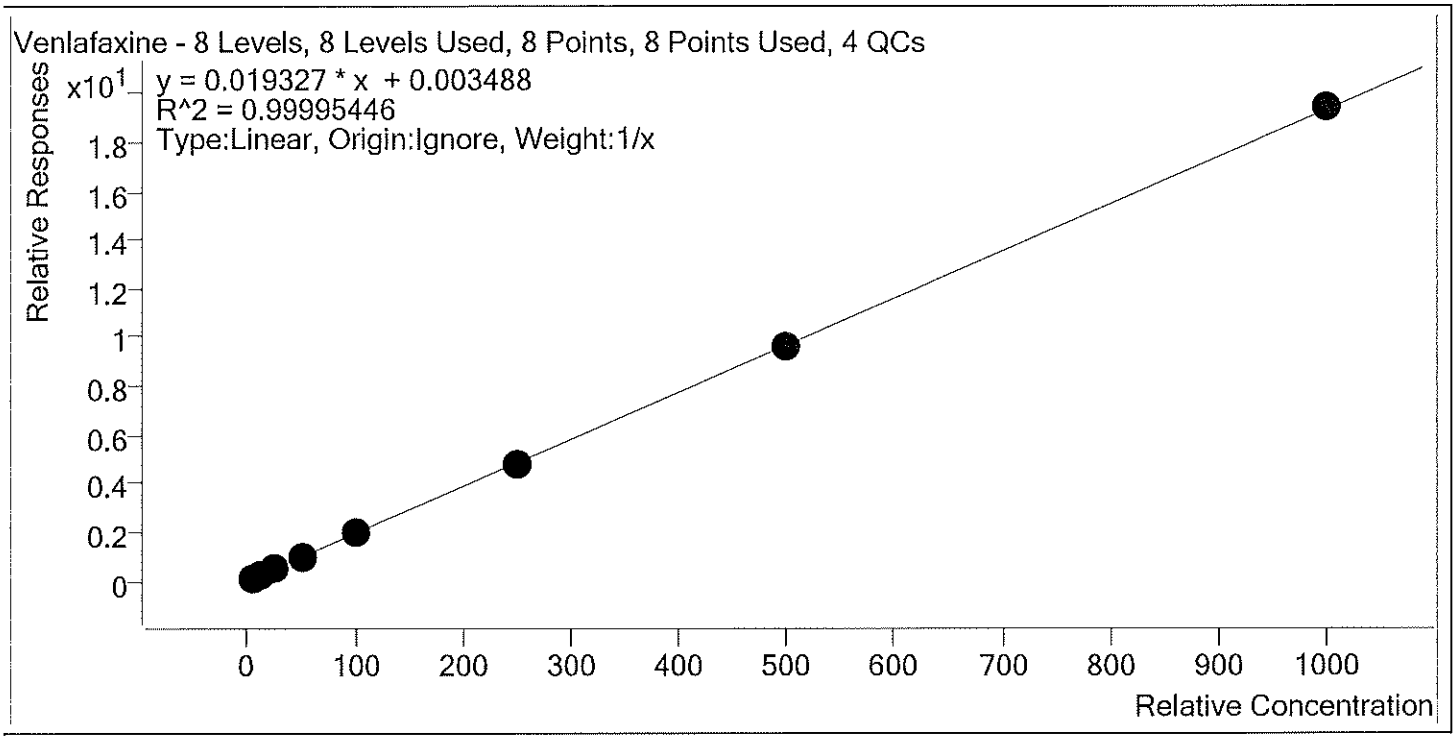
Analyte Trazodone **Internal Standard** Trazodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	6.2	124.3
p1 Cal 2- 10ng_r	2	✓	10.0	10.5	105.2
p1 Cal 3 -25ng_r	3	✓	25.0	23.5	94.0
p1 Cal 4-50ng	4	✓	50.0	46.8	93.6
p1 Cal 5-100ng	5	✓	100.0	89.5	89.5
p1 Cal 6-250ng	6	✓	250.0	231.7	92.7
p1 Cal 7-500ng	7	✓	500.0	475.7	95.1
p1 Cal 8-1000ng	8	✓	1000.0	1056.1	105.6

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Last Cal. Update	9/11/2019 11:38 AM
Analyst Name	ISP\datastor
Analyte	Venlafaxine
Internal Standard	Venlafaxine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	5.1	101.7
p1 Cal 2- 10ng_r	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng_r	3	✓	25.0	24.9	99.5
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	496.6	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1005.5	100.6

TS

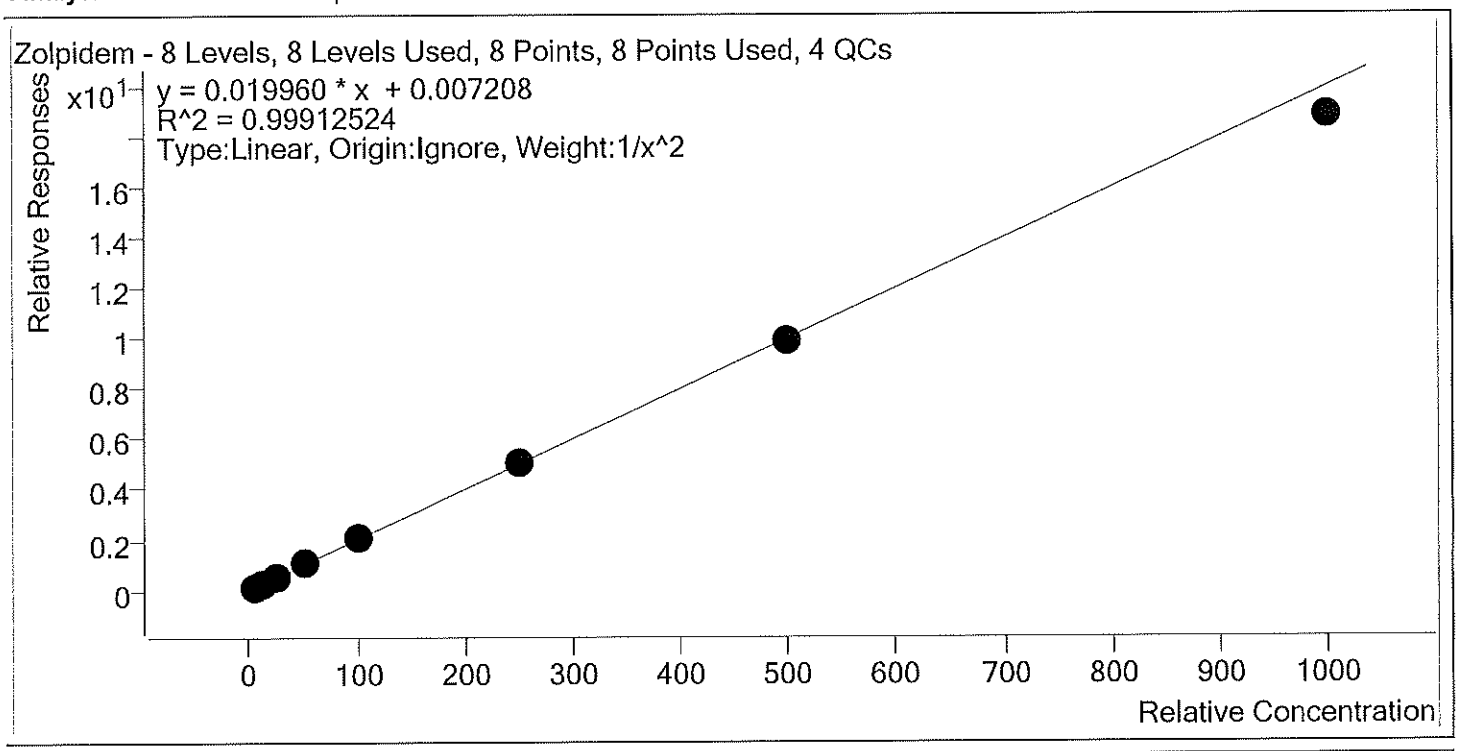
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin

Last Cal. Update 9/11/2019 11:38 AM

Analyst Name ISP\datastor

Analyte Zolpidem **Internal Standard** Zolpidem-D6



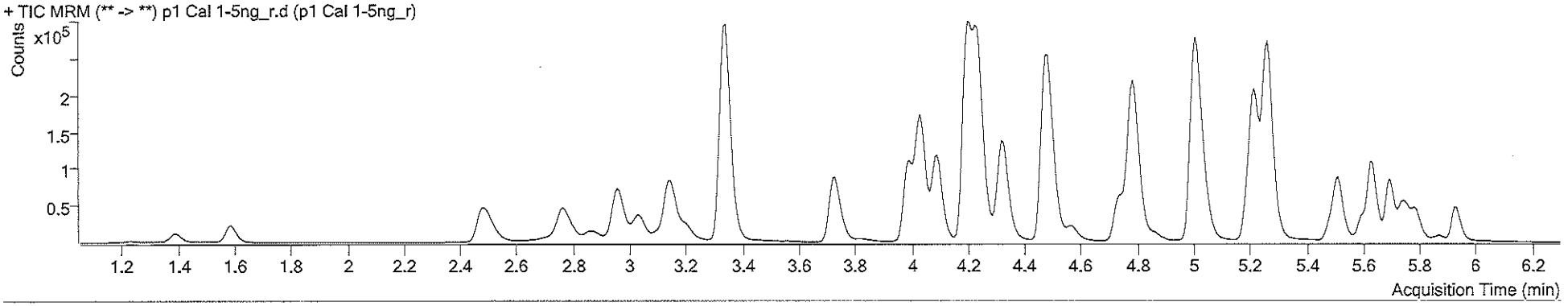
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng_r	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng_r	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng_r	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	51.2	102.3
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	253.6	101.5
p1 Cal 7-500ng	7	✓	500.0	496.3	99.3
p1 Cal 8-1000ng	8	✓	1000.0	943.4	94.3

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 Cal 1-5ng_r.d
Type	Cal	**Sample**	p1 Cal 1-5ng_r
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-H12	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 9:32:16 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	551	1438.41	70.5	2440.51	24950	0.5329 ng/ml
7-aminoclonazepam	4.224	5710	87.89	80.6	446.13	47411	4.8381 ng/ml
a-hydroxyalprazolam	5.673	441	58.55	60.0	342.81	4562	4.8836 ng/ml
alpha-PVP	4.330	36168	478.40	48.0	384.44	308517	5.0092 ng/ml
Alprazolam	5.749	12053	661.07	108.7	584.49	75934	5.7885 ng/ml
Amphetamine	3.041	47703	990.20	52.7	488.74	98707	4.8744 ng/ml
Benzoylecgonine	3.847	2000	47.41	6.3	1345.21	7878	5.7365 ng/ml
Buprenorphine	5.692	287	161.43	13.7	88.99	17347	0.4821 ng/ml
Bupropion	4.752	21769	1093.89	57.7	528.61	153996	4.6533 ng/ml
Carisoprodol	5.705	8969	21483.58	52.4	142.50	85889	5.0595 ng/ml
Citalopram	5.201	17762	417.65	44.6	8145.02	165585	5.0212 ng/ml
Clonazepam	5.579	1278	110.06	31.2	∞	4619	4.8739 ng/ml
Cocaine	4.237	33794	16984.10	43.6	265.52	521901	5.3309 ng/ml
Codeine	2.543	4078	1173.02	103.4	341.59	36402	5.0989 ng/ml
Cyclobenzaprine	5.603	7237	55983.18	12.8	61.90	64320	4.9869 ng/ml
Dextromethorphan	5.231	8790	456.40	79.6	2533.60	75947	4.9370 ng/ml
Dextrorphan	4.093	10253	1322.30	201.2	4594.96	255815	4.9723 ng/ml
Diazepam	5.934	9289	141.29	89.3	∞	83970	5.0735 ng/ml

B.

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.514	10665	2364.01	67.5	1090.18	119641	4.7868 ng/ml
Diphenhydramine	5.265	44591	2209.55	31.6	1458.63	591528	5.0673 ng/ml
Doxylamine	4.494	76662	389.18	99.7	5738.21	648135	4.8427 ng/ml
EDDP	5.216	30039	395.57	42.3	∞	318813	5.0468 ng/ml
Fentanyl	5.045	756	117.69	79.2	1228.41	89514	0.4906 ng/ml
Fluoxetine	5.695	8841	549.42	7.3	982.62	69639	4.9546 ng/ml
Hydrocodone	2.985	9880	129.68	37.4	43.35	120939	4.9306 ng/ml
Hydromorphone	1.594	7404	181.27	75.5	419.79	53231	4.9868 ng/ml
Ketamine	4.006	29917	1434.19	37.1	327.00	258112	4.9411 ng/ml
Lamotrigine	4.268	2242	410.95	78.7	453.47	258112	4.9758 ng/ml
Lorazepam	5.720	471	0.79 **Low**	59.2	1.65 **Low**	4619	2.2526 ng/ml
Meprobamate	4.888	2238	∞	29.0	24.35	20934	4.9453 ng/ml
Methadone	5.634	19804	275.83	53.3	437.85	189179	4.9909 ng/ml
Methamphetamine	3.202	37746	139.91	42.4	154.26	241050	4.9180 ng/ml
Metoprolol	4.299	8284	26184.21	93.1	1358.31	693658	4.8367 ng/ml
Mirtazapine	4.569	30876	1497.88	49.0	3459.76	308517	5.0458 ng/ml
Mitragynine	5.173	2340	5222.65	39.7	∞	189179	5.0234 ng/ml
Morphine	1.240	1575	1282.29	21.0	303.19	3957	4.9420 ng/ml
Norbuprenorphine	4.949	12	2.22 **Low**	100.8	25.51	1099	0.5213 ng/ml
Nordiazepam	5.874	1846	812.81	51.7	291.45	10556	5.2247 ng/ml
Norfentanyl	4.061	4892	1073.32	37.9	56.07	411856	0.5071 ng/ml
Norhydrocodone	3.046	351	325.89	18.3 **Low**	92.50	30888	6.9958 ng/ml
Noroxycodone	2.883	6388	271.84	47.9	881.39	38009	4.9057 ng/ml
O-desmethyl-tramadol	3.341	73572	1503.42	6.3	571.74	736573	5.0247 ng/ml
Oxazepam	5.723	601	6.22 **Low**	96.1 **High**	1.71 **Low**	5830	3.5372 ng/ml
Oxycodone	2.794	18174	619.05	30.5	1100.89	160386	4.9811 ng/ml
Oxymorphone	1.396	4408	223.40	47.8	340.30	31980	5.0339 ng/ml
Phentermine	3.765	11972	66.30	2.9	5.03 **Low**	249906	4.8625 ng/ml
Promethazine	5.513	14501	1990.79	30.4	109.61	129952	4.9560 ng/ml
Quetiapine	5.503	23742	754.51	57.8	∞	65038	4.9387 ng/ml
Sertraline	5.763	4202	114.79	93.6	45.42	35955	5.3159 ng/ml
Temazepam	5.797	5697	120.54	33.0	10.76	62330	4.8777 ng/ml
Tramadol	4.212	72913	7658.80	3.4	87.56	693658	4.9351 ng/ml
Trazodone	5.045	17648	∞	76.9	∞	146069	6.2169 ng/ml
Venlafaxine	5.007	54264	567.51	34.5	333.73	533310	5.0841 ng/ml
Zolpidem	4.804	57686	3142.15	32.7	1352.78	544909	4.9427 ng/ml

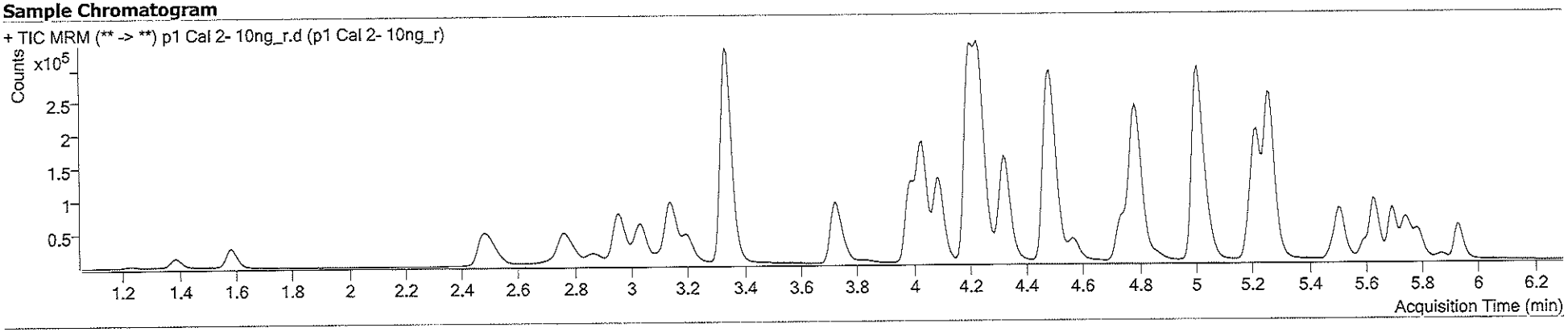
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update 9/11/2019 11:38:29 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 082219.m
Sample Position P2-G12
Injection Volume 1
Acq. Date-Time 9/10/2019 9:42:52 AM
Sample Info.

Data File p1 Cal 2- 10ng_r.d
Sample p1 Cal 2- 10ng_r
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	1067	365.39	77.5	287.26	25426	0.9893 ng/ml
7-aminoclonazepam	4.224	11159	3246.92	80.5	1389.35	47576	10.1481 ng/ml
a-hydroxyalprazolam	5.666	908	123.87	64.1	1512.23	4585	10.7320 ng/ml
alpha-PVP	4.330	71778	1547.96	47.4	25374.49	317110	9.9422 ng/ml
Alprazolam	5.749	23338	309.89	110.7	569.36	77635	10.0754 ng/ml
Amphetamine	3.041	96109	1722.31	56.4	1406.86	104574	10.1947 ng/ml
Benzoylecgonine	3.847	3371	94.02	7.1	53.04	8345	9.5528 ng/ml
Buprenorphine	5.685	475	364.62	14.3	201.49	14646	1.0489 ng/ml
Bupropion	4.752	42026	826.64	58.1	1855.00	152348	9.9605 ng/ml
Carisoprodol	5.705	17003	1095.73	58.9	119.43	86171	9.7557 ng/ml
Citalopram	5.195	28777	215.88	43.9	3745.89	136596	9.9747 ng/ml
Clonazepam	5.579	2589	144.04	31.4	2180.52	4478	10.2966 ng/ml
Cocaine	4.230	67175	764.08	43.3	1422.53	530840	10.2015 ng/ml
Codeine	2.536	7852	1464.73	108.0	1104.67	37235	9.8578 ng/ml
Cyclobenzaprine	5.603	10475	36750.36	12.8	76.91	46531	10.0585 ng/ml
Dextromethorphan	5.231	13885	637.37	81.4	588.61	62199	9.9926 ng/ml
Dextrorphan	4.093	19734	762.01	204.2	2053.98	254869	9.8921 ng/ml
Diazepam	5.934	17099	∞	94.0	1211.72	84101	9.6110 ng/ml

AM #28 Multi-Drug Quant. Results

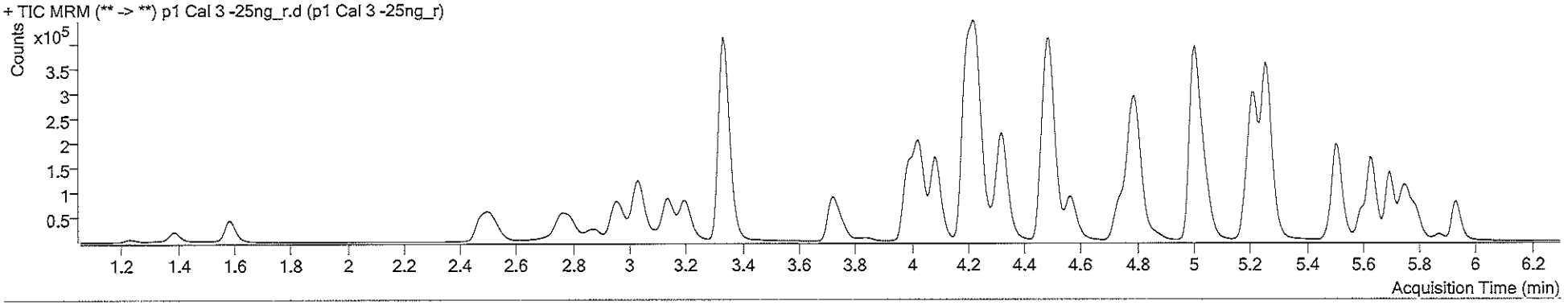
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.508	21594	1578.51	66.1	2937.45	122745	10.2992 ng/ml
Diphenhydramine	5.265	75493	1273.17	31.1	701.67	514611	9.9895 ng/ml
Doxylamine	4.494	150828	1302.58	99.6	4945.12	658673	9.8324 ng/ml
EDDP	5.216	53291	5740.58	41.0	644.83	285596	10.0856 ng/ml
Fentanyl	5.045	1312	58.31	61.6	2391.18	71021	1.0445 ng/ml
Fluoxetine	5.701	11083	631.02	9.5	172.68	44869	10.0706 ng/ml
Hydrocodone	2.978	19581	83.73	36.5	187.49	121880	10.1644 ng/ml
Hydromorphone	1.594	15229	308.84	75.0	951.07	55744	10.0808 ng/ml
Ketamine	4.006	59292	2994.71	36.5	185.00	265448	10.0723 ng/ml
Lamotrigine	4.261	4164	1622.02	77.3	1188.96	265448	9.7536 ng/ml
Lorazepam	5.727	707	42.16	50.1	2.56 Low	4478	5.9897 ng/ml
Meprobamate	4.881	4390	405.41	26.7	21.24	21019	10.2466 ng/ml
Methadone	5.634	30138	918.85	54.5	1111.97	146436	9.9443 ng/ml
Methamphetamine	3.202	73672	737.52	44.3	246.84	270355	9.9064 ng/ml
Metoprolol	4.299	16183	64402.24	94.2	∞	707545	10.2528 ng/ml
Mirtazapine	4.569	53423	7156.19	48.7	1879.76	317110	9.3129 ng/ml
Mitragynine	5.173	3676	7382.35	35.8	2462.89	146436	10.4923 ng/ml
Morphine	1.240	3217	1687.81	20.2	325.51	4153	10.0371 ng/ml
Norbuprenorphine	4.956	27	11.82	95.9	47.53	1027	1.3367 ng/ml
Nordiazepam	5.880	3004	7535.98	57.0	159.93	10434	9.0542 ng/ml
Norfentanyl	4.054	9678	3599.20	37.0	1477.31	432545	0.9895 ng/ml
Norhydrocodone	3.039	800	85.97	22.3	410.63	33260	10.8935 ng/ml
Noroxycodone	2.883	12752	1782.57	47.7	4357.62	38156	10.1772 ng/ml
O-desmethyl-tramadol	3.341	143051	1917.71	6.1	∞	750056	9.8763 ng/ml
Oxazepam	5.730	1084	10.57	64.0	5.18 Low	5978	8.6338 ng/ml
Oxycodone	2.787	35462	666.21	30.3	409.19	163646	9.9995 ng/ml
Oxymorphone	1.390	8482	151.89	48.3	358.30	31679	9.9547 ng/ml
Phentermine	3.758	23783	182.88	2.9	30.74	263027	10.0656 ng/ml
Promethazine	5.513	19838	5977.55	31.2	81.60	89356	10.0891 ng/ml
Quetiapine	5.503	38585	397.31	55.0	∞	52856	10.1659 ng/ml
Sertraline	5.763	5483	165.05	92.1	133.42	25103	9.8203 ng/ml
Temazepam	5.797	12003	112.30	33.8	10.95	62304	10.5137 ng/ml
Tramadol	4.212	140839	5636.60	3.5	∞	707545	10.1119 ng/ml
Trazodone	5.045	27697	4747.20	77.7	∞	118523	10.5160 ng/ml
Venlafaxine	5.007	105822	8761.19	35.5	1146.15	539987	9.9591 ng/ml
Zolpidem	4.804	116283	1021.84	33.3	391.69	555952	10.1179 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 Cal 3 -25ng_r.d
Type	Cal	**Sample**	p1 Cal 3 -25ng_r
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-F12	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 9:53:20 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	2705	1063.29	73.3	10703.24	25268	2.4844 ng/ml
7-aminoclonazepam	4.217	27287	6059.44	81.4	2288.80	45953	26.8651 ng/ml
a-hydroxyalprazolam	5.666	2063	114.16	68.7	∞	4800	24.1166 ng/ml
alpha-PVP	4.330	172420	16731.65	47.2	5183.62	307746	25.0380 ng/ml
Alprazolam	5.749	59797	553.11	108.9	826.12	76522	24.6024 ng/ml
Amphetamine	3.034	215311	3583.44	56.2	3066.68	95911	26.3819 ng/ml
Benzoylecgonine	3.840	7905	2226.41	7.2	278.53	8490	22.9520 ng/ml
Buprenorphine	5.692	1098	376.84	16.8	577.59	15460	2.4256 ng/ml
Bupropion	4.752	91335	773.26	57.9	644.98	136861	25.4093 ng/ml
Carisoprodol	5.705	43678	∞	55.5	173.02	88603	24.7027 ng/ml
Citalopram	5.195	91228	930.04	43.2	1609.26	171586	25.3531 ng/ml
Clonazepam	5.579	6788	214.01	30.7	4019.80	4704	25.8497 ng/ml
Cocaine	4.230	162349	26333.79	45.2	13801.15	534463	24.1698 ng/ml
Codeine	2.536	19081	8029.76	108.9	2816.82	36216	25.0707 ng/ml
Cyclobenzaprine	5.603	44950	3316.19	12.0	258.41	82197	24.5510 ng/ml
Dextromethorphan	5.231	41564	1379.66	81.8	∞	77660	24.6637 ng/ml
Dextrorphan	4.086	50091	21774.48	206.5	16608.85	262032	24.8749 ng/ml
Diazepam	5.934	45842	1797.24	89.2	495.48	88168	25.1102 ng/ml

AM #28 Multi-Drug Quant. Results

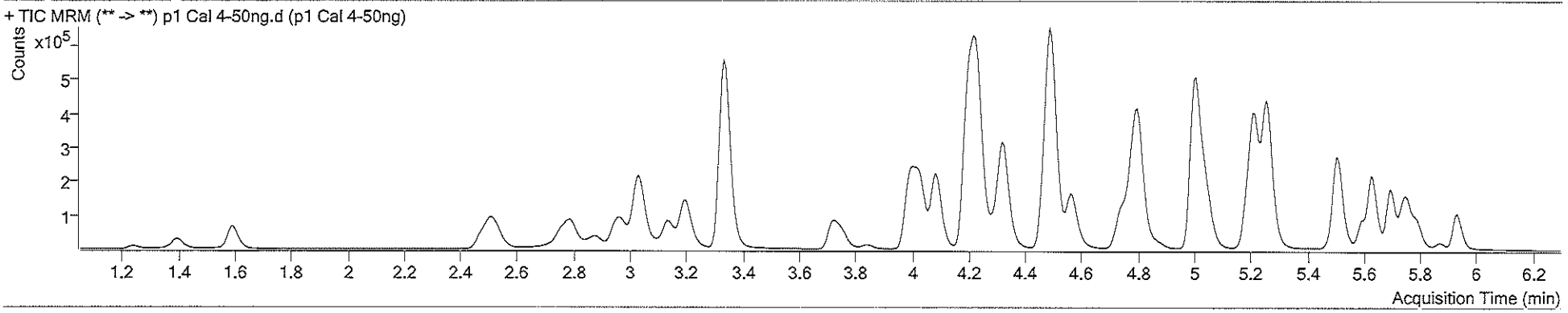
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.508	53804	409.44	66.0	2806.11	122834	26.9491 ng/ml
Diphenhydramine	5.265	207230	1878.65	31.6	2541.74	570709	24.9261 ng/ml
Doxylamine	4.494	366215	150150.05	99.1	445.54	642990	25.1818 ng/ml
EDDP	5.216	137839	1064.78	41.5	1573.35	301222	24.8677 ng/ml
Fentanyl	5.045	4411	709.32	74.3	∞	99307	2.4763 ng/ml
Fluoxetine	5.695	51110	439.24	8.6	501.80	85007	25.1667 ng/ml
Hydrocodone	2.978	48073	∞	38.5	140.61	124689	25.0707 ng/ml
Hydromorphone	1.587	37099	740.99	77.0	∞	56189	24.7818 ng/ml
Ketamine	3.999	144015	1008.50	38.2	556.71	263582	25.4961 ng/ml
Lamotrigine	4.261	10562	1119.74	79.3	2839.19	263582	26.3972 ng/ml
Lorazepam	5.720	1947	∞	46.7	10.32	4704	23.0830 ng/ml
Meprobamate	4.881	10565	722.59	25.1	∞	21715	24.6833 ng/ml
Methadone	5.634	99857	577.51	52.6	1651.62	193499	25.1416 ng/ml
Methamphetamine	3.202	157707	526.98	42.0	569.63	238004	26.6964 ng/ml
Metoprolol	4.292	40027	162327.40	94.1	5493.04	716918	26.5872 ng/ml
Mirtazapine	4.569	144895	12000.93	49.9	21381.79	307746	28.1785 ng/ml
Mitragynine	5.173	10069	33369.73	37.5	9844.58	193499	22.0627 ng/ml
Morphine	1.233	7976	3300.06	20.7	202.82	4214	25.1641 ng/ml
Norbuprenorphine	4.956	54	7.44 Low	72.3 Low	137.91	988	2.8683 ng/ml
Nordiazepam	5.874	8284	511.78	59.1	1124.25	10882	25.0890 ng/ml
Norfentanyl	4.054	22386	5338.38	37.3	263.33	422342	2.3974 ng/ml
Norhydrocodone	3.039	1902	137.99	23.0	31.42	33499	20.9400 ng/ml
Noroxycodone	2.883	31460	727.26	46.0	456.23	37981	25.8521 ng/ml
O-desmethyl-tramadol	3.341	357536	2671.03	6.1	642.14	754108	25.0126 ng/ml
Oxazepam	5.730	2485	30.53	77.7	10.52	5954	24.0164 ng/ml
Oxycodone	2.787	86537	3269.32	30.0	1241.73	164127	25.0732 ng/ml
Oxymorphone	1.390	21316	202.86	46.9	488.03	32331	24.7853 ng/ml
Phentermine	3.758	56373	71.43	2.7	81.54	247612	26.8624 ng/ml
Promethazine	5.513	85454	∞	30.6	1044.60	154886	25.4163 ng/ml
Quetiapine	5.503	123632	21474.43	55.4	684.02	68839	25.4337 ng/ml
Sertraline	5.763	26463	2509.46	90.0	498.12	47560	24.8163 ng/ml
Temazepam	5.791	29119	423.44	30.8	42.03	65233	24.6365 ng/ml
Tramadol	4.206	342269	1698.05	3.5	469.73	716918	25.4518 ng/ml
Trazodone	5.045	89820	33188.45	77.4	66957.59	156381	23.4928 ng/ml
Venlafaxine	5.007	265476	10845.03	35.5	702.00	548375	24.8675 ng/ml
Zolpidem	4.804	284053	859.49	32.7	16727.28	553850	25.3339 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 Cal 4-50ng.d
Type	Cal	**Sample**	p1 Cal 4-50ng
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-E12	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 10:18:53 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	5302	618.95	77.1	1128.39	24998	4.8969 ng/ml
7-aminoclonazepam	4.217	53528	3825.33	82.0	8980.58	45495	53.9807 ng/ml
a-hydroxyalprazolam	5.666	3488	108.24	74.0	804.61	4125	48.1212 ng/ml
alpha-PVP	4.330	340203	2910.28	47.7	1712.95	303282	50.4209 ng/ml
Alprazolam	5.742	105524	555.07	108.0	495.60	67130	48.4853 ng/ml
Amphetamine	3.034	398995	12634.78	56.5	5252.74	91383	52.2807 ng/ml
Benzoylecgonine	3.840	15525	191.82	7.6	291.07	8416	46.1746 ng/ml
Buprenorphine	5.692	1922	∞	16.3	607.88	11432	5.8856 ng/ml
Bupropion	4.752	165570	17855.95	58.1	3091.91	124213	51.6745 ng/ml
Carisoprodol	5.705	82878	∞	57.5	282.17	81464	51.2143 ng/ml
Citalopram	5.195	170687	1700.57	44.0	650.55	162706	50.1390 ng/ml
Clonazepam	5.579	12238	264.74	33.3	877.93	4157	52.8456 ng/ml
Cocaine	4.230	333990	32172.58	43.7	21274.84	535220	49.4133 ng/ml
Codeine	2.536	37875	5001.30	110.3	1090.40	36671	49.4296 ng/ml
Cyclobenzaprine	5.596	85105	10875.08	11.1	322.34	73231	52.2663 ng/ml
Dextromethorphan	5.224	76473	102.31	82.7	2197.73	69501	51.2397 ng/ml
Dextrorphan	4.086	98728	10749.83	205.3	1405.30	253895	50.9167 ng/ml
Diazepam	5.934	82995	6493.09	87.5	1315.87	77807	51.8739 ng/ml

AM #28 Multi-Drug Quant. Results

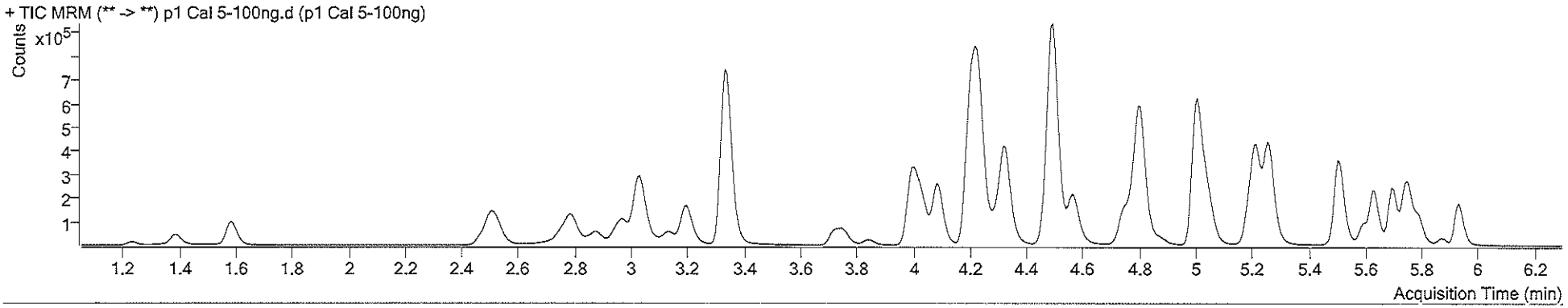
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.508	110802	23765.77	65.9	17468.55	125130	55.3743 ng/ml
Diphenhydramine	5.265	378046	1703.29	32.1	5770.14	513623	50.6655 ng/ml
Doxylamine	4.494	726124	59243.31	99.1	3906.95	629325	51.5152 ng/ml
EDDP	5.216	268488	∞	41.6	639.64	292880	49.9108 ng/ml
Fentanyl	5.045	7839	318.52	72.5	1933.57	86877	5.0049 ng/ml
Fluoxetine	5.695	89471	824.80	8.8	444.55	72164	52.3797 ng/ml
Hydrocodone	2.978	99936	433.59	38.4	214.72	126163	52.0196 ng/ml
Hydromorphone	1.594	75599	836.74	75.6	1432.28	56926	50.1456 ng/ml
Ketamine	3.999	291821	19548.28	38.0	1735.24	266135	51.7653 ng/ml
Lamotrigine	4.261	20645	2225.73	80.7	2234.18	266135	51.9953 ng/ml
Lorazepam	5.720	3920	153.29	48.4	6.12 **Low**	4157	58.4009 ng/ml
Meprobamate	4.881	20739	3004.32	27.6	401.41	21157	50.3520 ng/ml
Methadone	5.634	181942	941.19	53.9	2629.50	171528	51.8208 ng/ml
Methamphetamine	3.202	287867	604.75	43.4	975.72	224182	53.4424 ng/ml
Metoprolol	4.292	80333	6750.72	93.2	∞	730000	53.4538 ng/ml
Mirtazapine	4.569	264108	29842.84	50.1	7070.51	303282	53.1365 ng/ml
Mitragynine	5.173	18678	2083.73	37.8	450.37	171528	46.4841 ng/ml
Morphine	1.246	15916	545.12	20.8	284.09	3923	54.4468 ng/ml
Norbuprenorphine	4.942	75	4.79 **Low**	125.6 **High**	366.62	919	4.2905 ng/ml
Nordiazepam	5.874	15060	485.58	57.4	429.73	9875	50.9686 ng/ml
Norfentanyl	4.054	45480	1116.17	36.8	1282.38	413735	5.0137 ng/ml
Norhydrocodone	3.032	4604	∞	26.5	70.86	33739	45.4026 ng/ml
Noroxycodone	2.876	63533	∞	46.8	1454.70	38771	51.5600 ng/ml
O-desmethyl-tramadol	3.341	734283	4298.44	6.2	873.98	770377	50.5977 ng/ml
Oxazepam	5.730	5013	394.02	78.8	24.33	5702	54.1091 ng/ml
Oxycodone	2.787	180870	3611.79	30.3	2044.99	168140	51.6946 ng/ml
Oxymorphone	1.396	42351	1007.75	48.0	462.83	32622	48.9873 ng/ml
Phentermine	3.758	103586	271.09	2.6	215.93	229657	54.1997 ng/ml
Promethazine	5.513	148894	6589.81	30.9	760.87	135500	50.8504 ng/ml
Quetiapine	5.503	216176	13303.60	55.2	∞	62208	49.4837 ng/ml
Sertraline	5.763	43854	529.01	89.1	1071.79	38281	50.9541 ng/ml
Temazepam	5.791	56154	726.13	32.8	98.55	61260	50.8128 ng/ml
Tramadol	4.206	690596	3370.41	3.4	542.89	730000	51.2755 ng/ml
Trazodone	5.045	166574	7073.16	76.5	68072.73	140385	46.8113 ng/ml
Venlafaxine	5.007	524228	4943.19	35.4	2701.92	535238	50.4953 ng/ml
Zolpidem	4.804	580298	56094.26	32.6	65460.67	564175	51.1710 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 Cal 5-100ng.d
Type	Cal	**Sample**	p1 Cal 5-100ng
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-D12	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 10:29:30 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	9612	671.77	75.0	1567.18	22586	9.8002 ng/ml
7-aminoclonazepam	4.217	99931	3308.37	82.5	636.29	43464	106.2173 ng/ml
a-hydroxyalprazolam	5.666	7703	158.48	73.9	367.16	4660	94.7399 ng/ml
alpha-PVP	4.330	545634	3729.74	47.9	799.67	246501	99.7781 ng/ml
Alprazolam	5.749	219577	1198.78	107.9	1937.51	72071	93.0409 ng/ml
Amphetamine	3.034	557415	4731.91	56.3	7983.83	66411	101.4488 ng/ml
Benzoylecgonine	3.840	33996	366.52	7.7	163.22	8129	105.5841 ng/ml
Buprenorphine	5.692	2939	931.28	12.6	948.46	10093	10.2743 ng/ml
Bupropion	4.752	230165	7788.47	58.4	5023.37	88178	102.0770 ng/ml
Carisoprodol	5.705	166971	17997.27	54.4	1410.37	83865	100.4352 ng/ml
Citalopram	5.195	231428	918.00	44.0	867.85	112644	98.3072 ng/ml
Clonazepam	5.579	24602	4889.40	32.8	20939.62	4579	96.5266 ng/ml
Cocaine	4.230	550097	∞	44.0	∞	448593	96.8830 ng/ml
Codeine	2.536	65981	2172.52	108.3	1282.66	32072	98.7503 ng/ml
Cyclobenzaprine	5.603	111873	∞	11.7	789.68	51254	98.2377 ng/ml
Dextromethorphan	5.224	101112	914.01	82.2	36824.02	47350	99.9193 ng/ml
Dextrorphan	4.086	149977	1219.25	205.0	7075.15	195268	100.8703 ng/ml
Diazepam	5.934	166803	3980.49	88.4	587.40	81580	99.7473 ng/ml

AM #28 Multi-Drug Quant. Results

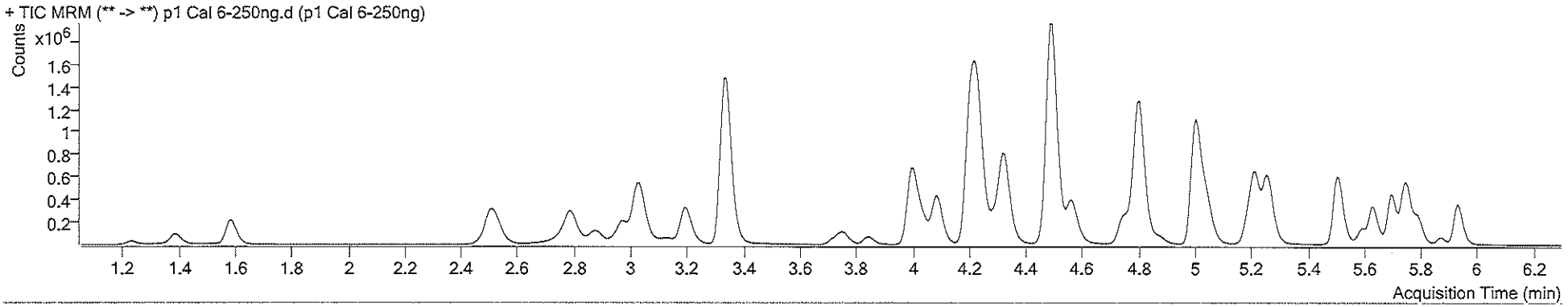
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.508	190907	14714.81	67.6	5306.60	114233	105.2859	ng/ml
Diphenhydramine	5.265	494415	2276.83	31.8	8305.14	346566	98.3288	ng/ml
Doxylamine	4.494	1172714	78326.14	99.2	208126.27	525202	100.1499	ng/ml
EDDP	5.216	356712	2552.07	41.9	1966.66	195705	99.3287	ng/ml
Fentanyl	5.045	10391	705.40	73.0	1287.96	58902	9.7623	ng/ml
Fluoxetine	5.695	126812	1259.97	8.5	863.31	53882	99.8399	ng/ml
Hydrocodone	2.978	171994	∞	37.9	299.37	109738	103.4024	ng/ml
Hydromorphone	1.587	131987	2092.63	75.3	1473.70	50074	99.8209	ng/ml
Ketamine	3.999	495393	2795.43	37.7	2454.85	231101	101.7648	ng/ml
Lamotrigine	4.261	35736	7239.72	80.5	1973.53	231101	104.5901	ng/ml
Lorazepam	5.720	7100	159.44	53.8	13.42	4579	98.9417	ng/ml
Meprobamate	4.881	40332	18884.39	26.4	578.11	20787	100.2664	ng/ml
Methadone	5.634	243419	1775.05	52.8	803.94	118186	100.7510	ng/ml
Methamphetamine	3.195	340303	1374.69	43.3	698.47	139261	103.3474	ng/ml
Metoprolol	4.292	132478	339105.54	93.7	∞	620015	104.8062	ng/ml
Mirtazapine	4.569	348314	60095.61	49.6	13845.18	246501	86.9667	ng/ml
Mitragynine	5.173	27405	7258.03	36.9	418.05	118186	99.3095	ng/ml
Morphine	1.233	27387	1326.36	20.8	1631.83	3685	100.0931	ng/ml
Norbuprenorphine	4.963	117	626.01	98.5	400.65	684	9.0793	ng/ml
Nordiazepam	5.874	31606	2569.62	58.6	951.17	10840	98.0835	ng/ml
Norfentanyl	4.054	75602	4093.94	37.5	416.07	356568	9.7066	ng/ml
Norhydrocodone	3.032	8388	∞	27.2	121.81	29728	90.1282	ng/ml
Noroxycodone	2.876	109619	3258.33	47.8	1625.45	34240	101.1390	ng/ml
O-desmethyl-tramadol	3.341	1301656	105131.97	6.1	2059.66	693696	99.9091	ng/ml
Oxazepam	5.730	8774	110.23	65.3	32.93	5581	99.2523	ng/ml
Oxycodone	2.787	315995	2980.48	30.5	3640.97	152532	100.0366	ng/ml
Oxymorphone	1.390	77184	631.83	46.2	∞	29495	98.9337	ng/ml
Phentermine	3.758	145092	551.17	2.7	191.44	168758	104.2196	ng/ml
Promethazine	5.513	215285	∞	30.6	482.01	100513	99.3369	ng/ml
Quetiapine	5.503	329998	807.71	54.9	1318.58	46059	102.3308	ng/ml
Sertraline	5.763	66064	1500.78	93.6	682.33	30074	97.5878	ng/ml
Temazepam	5.791	109363	1580.12	31.1	340.52	60199	100.9108	ng/ml
Tramadol	4.206	1163122	2931.49	3.4	768.63	620015	102.5219	ng/ml
Trazodone	5.045	223781	29271.38	76.7	∞	97020	89.4727	ng/ml
Venlafaxine	5.007	848199	55612.64	35.7	3503.74	442457	99.0060	ng/ml
Zolpidem	4.804	1005840	1580.45	32.6	931.04	496037	101.2301	ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update 9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 Cal 6-250ng.d
Type	Cal	**Sample**	p1 Cal 6-250ng
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-C12	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 10:39:58 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	24143	3490.72	74.6	3217.48	22496	24.6739 ng/ml
7-aminoclonazepam	4.217	217348	27846.62	81.8	6434.56	39684	254.0797 ng/ml
a-hydroxyalprazolam	5.666	20185	815.34	67.2	439.29	4747	244.8408 ng/ml
alpha-PVP	4.330	1221095	3789.76	48.5	8059.05	219292	251.4436 ng/ml
Alprazolam	5.749	517513	2104.53	108.3	2225.41	65970	238.0027 ng/ml
Amphetamine	3.034	1069251	10571.49	56.0	17285.07	52795	246.2390 ng/ml
Benzoylecgonine	3.840	106517	2946.91	7.4	∞	8344	323.7849 ng/ml
Buprenorphine	5.692	4569	244.51	14.9	194.90	6440	25.1850 ng/ml
Bupropion	4.752	412753	139420.88	58.1	9517.45	64326	252.2770 ng/ml
Carisoprodol	5.705	410328	4236.59	55.2	1278.89	82230	252.0543 ng/ml
Citalopram	5.195	416619	1192.28	42.8	4413.20	79255	251.7138 ng/ml
Clonazepam	5.579	64982	29586.46	31.0	∞	4647	251.3831 ng/ml
Cocaine	4.230	1274619	600984.26	44.6	54309.00	407584	246.7210 ng/ml
Codeine	2.529	157166	314.73	105.5	1936.06	30046	251.5429 ng/ml
Cyclobenzaprine	5.603	194631	746.96	11.8	1541.86	35626	246.0030 ng/ml
Dextromethorphan	5.231	172581	1730.44	81.3	659.10	32166	251.8146 ng/ml
Dextrorphan	4.086	301358	2611.16	206.5	2110.16	158535	250.1010 ng/ml
Diazepam	5.934	396867	7165.57	87.7	7391.68	75603	256.6241 ng/ml

TS

AM #28 Multi-Drug Quant. Results

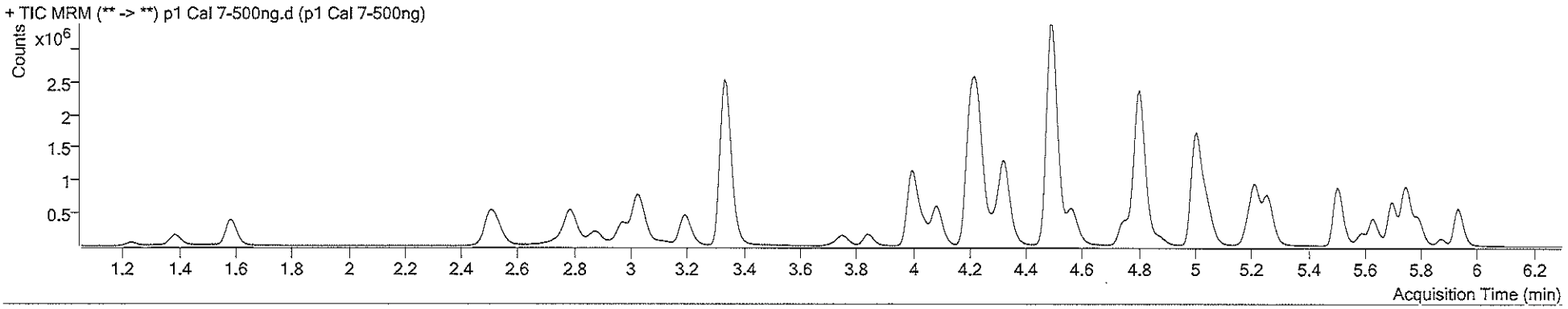
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.508	466009	6806.36	68.5	53104.19	116946	252.2564 ng/ml
Diphenhydramine	5.265	874853	59761.50	31.8	12645.19	243716	247.6200 ng/ml
Doxylamine	4.494	2674742	268030.16	98.9	165363.92	474559	253.5437 ng/ml
EDDP	5.216	651540	3783.66	42.1	48096.96	142438	249.4129 ng/ml
Fentanyl	5.045	17103	1842.03	76.4	364.63	38868	24.3133 ng/ml
Fluoxetine	5.695	208590	1327.79	8.6	1030.61	35741	248.2483 ng/ml
Hydrocodone	2.978	404423	∞	40.0	∞	107871	248.0222 ng/ml
Hydromorphone	1.587	323745	2322.48	76.9	1861.03	48740	251.9957 ng/ml
Ketamine	3.999	1198838	70602.74	37.9	6840.38	224992	253.8363 ng/ml
Lamotrigine	4.261	84244	18492.19	81.0	7628.15	224992	254.6133 ng/ml
Lorazepam	5.720	17624	466.72	49.6	68.40	4647	248.5802 ng/ml
Meprobamate	4.881	106780	31605.43	26.4	485.65	21552	256.9819 ng/ml
Methadone	5.634	411439	8909.85	53.2	17539.62	81794	246.2625 ng/ml
Methamphetamine	3.195	677114	2410.47	42.9	933.95	116462	248.4020 ng/ml
Metoprolol	4.292	290240	∞	93.4	∞	588448	243.3488 ng/ml
Mirtazapine	4.562	623712	171337.91	49.4	41760.36	219292	176.2642 ng/ml
Mitragynine	5.173	50329	68427.91	35.9	68064.31	81794	264.0081 ng/ml
Morphine	1.233	63209	1486.62	20.8	222.83	3407	250.5460 ng/ml
Norbuprenorphine	4.956	308	2647.66	83.7	900.81	581	28.3132 ng/ml
Nordiazepam	5.874	75536	1061.56	58.2	4861.88	9935	256.9021 ng/ml
Norfentanyl	4.054	184195	3778.26	37.2	∞	336571	25.1153 ng/ml
Norhydrocodone	3.032	23655	272.56	28.9	412.31	29344	250.9864 ng/ml
Noroxycodone	2.876	265393	869.35	46.7	1147.96	33749	249.0505 ng/ml
O-desmethyl-tramadol	3.341	3286833	3113.12	6.3	3921.61	699963	250.4892 ng/ml
Oxazepam	5.730	21270	138.47	72.4	38.90	5376	254.6257 ng/ml
Oxycodone	2.787	797101	2851.52	30.5	2458.33	154040	250.6506 ng/ml
Oxymorphone	1.390	189563	1925.59	44.9	974.13	28960	247.7503 ng/ml
Phentermine	3.758	288451	1460.72	2.7	807.80	140815	249.6936 ng/ml
Promethazine	5.513	373965	1666.33	30.7	1420.00	70235	247.2868 ng/ml
Quetiapine	5.503	628900	113303.37	54.7	2555.00	35162	255.8950 ng/ml
Sertraline	5.763	109468	2707.80	94.0	2222.43	20083	241.9542 ng/ml
Temazepam	5.791	279274	∞	31.4	393.30	62702	247.7084 ng/ml
Tramadol	4.206	2744671	183062.52	3.5	707.14	588448	256.1781 ng/ml
Trazodone	5.045	431082	74799.84	75.7	1155252.78	71362	231.7127 ng/ml
Venlafaxine	5.007	1917504	36083.40	35.3	3371.81	398976	248.4850 ng/ml
Zolpidem	4.804	2491201	2968.28	32.6	2145.19	491374	253.6415 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update 9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 Cal 7-500ng.d
Type	Cal	**Sample**	p1 Cal 7-500ng
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-B12	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 10:50:24 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	46625	1026.86	75.9	1312.77	21487	49.8615 ng/ml
7-aminoclonazepam	4.217	375247	13008.95	81.0	10612.84	36754	474.3042 ng/ml
a-hydroxyalprazolam	5.666	39807	273.94	68.8	4170.13	4538	505.8327 ng/ml
alpha-PVP	4.330	2063779	3426.07	48.5	1723.38	188166	495.5441 ng/ml
Alprazolam	5.749	936347	4847.26	107.4	6902.95	59239	478.5422 ng/ml
Amphetamine	3.028	1543316	19848.74	55.9	∞	39068	481.2677 ng/ml
Benzoylecgonine	3.840	271007	1768.58	7.4	∞	9150	752.1719 ng/ml
Buprenorphine	5.692	4849	378.95	16.0	8320.48	4285	40.2356 ng/ml
Bupropion	4.752	633704	38441.73	58.7	10785.73	49960	499.5992 ng/ml
Carisoprodol	5.705	743634	1689.19	56.3	7630.83	75853	495.4138 ng/ml
Citalopram	5.195	616486	9210.02	43.3	1656.51	60017	491.9719 ng/ml
Clonazepam	5.579	133549	1921.21	32.2	7609.08	4950	485.1753 ng/ml
Cocaine	4.230	2223694	381414.79	43.9	85287.60	353809	495.6195 ng/ml
Codeine	2.529	285880	26514.39	104.3	6093.79	27019	509.1064 ng/ml
Cyclobenzaprine	5.603	247970	29943.05	11.9	298.36	22609	493.9581 ng/ml
Dextromethorphan	5.224	213000	61597.26	83.2	18222.55	20090	498.1075 ng/ml
Dextrorphan	4.086	455310	50271.41	206.3	2112.09	120969	495.5118 ng/ml
Diazepam	5.934	690435	4148.91	87.4	2720.99	68653	491.9590 ng/ml

AM #28 Multi-Drug Quant. Results

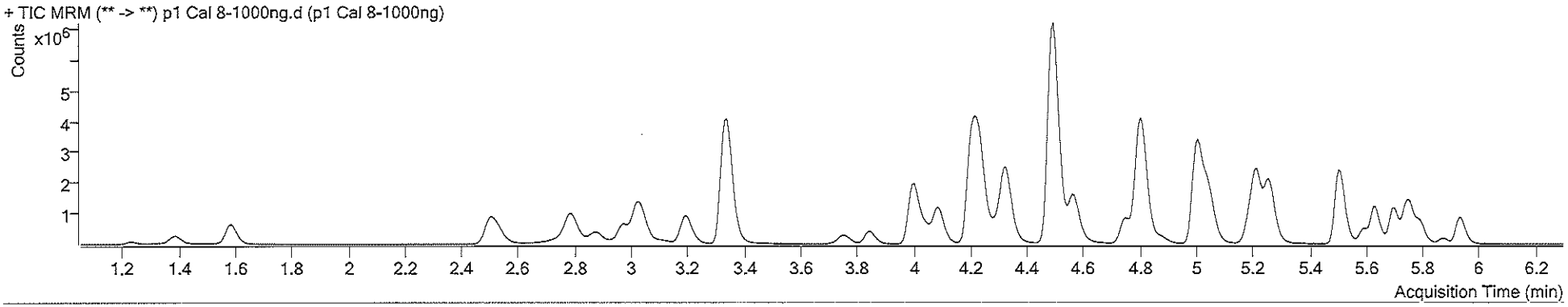
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.501	862935	101720.38	67.5	3668.98	116771	468.5667 ng/ml
Diphenhydramine	5.265	1178870	2644.55	31.9	17107.22	162665	500.0643 ng/ml
Doxylamine	4.487	4755829	226505.67	98.5	88330.61	428252	500.0343 ng/ml
EDDP	5.216	1088685	3268.83	41.8	3886.39	119491	496.8786 ng/ml
Fentanyl	5.045	19977	∞	73.5	209.82	22734	48.5261 ng/ml
Fluoxetine	5.695	225220	667.73	8.7	∞	19623	488.6392 ng/ml
Hydrocodone	2.971	760407	∞	39.1	∞	103213	487.8511 ng/ml
Hydromorphone	1.587	648462	7256.01	74.5	913.89	49176	500.5698 ng/ml
Ketamine	3.999	2174239	167205.45	37.9	13422.63	211857	489.4546 ng/ml
Lamotrigine	4.261	154590	∞	82.3	52436.77	211857	497.0934 ng/ml
Lorazepam	5.720	34095	408.80	51.0	254.97	4950	455.2485 ng/ml
Meprobamate	4.881	209613	13197.01	26.9	4120.67	22052	493.5967 ng/ml
Methadone	5.634	535891	8640.95	52.6	7598.51	53676	488.9084 ng/ml
Methamphetamine	3.195	985798	21337.39	43.1	3931.60	88483	477.6669 ng/ml
Metoprolol	4.292	458321	404790.99	96.4	∞	530984	426.6731 ng/ml
Mirtazapine	4.562	877244	∞	49.6	30631.69	188166	289.6886 ng/ml
Mitragynine	5.173	62981	119817.39	37.1	17447.05	53676	503.6995 ng/ml
Morphine	1.233	117557	440.46	20.0	1330.68	3236	491.0202 ng/ml
Norbuprenorphine	4.956	325	874.68	83.6	81.48	366	47.4649 ng/ml
Nordiazepam	5.874	142644	1577.50	57.4	8641.98	9603	502.5487 ng/ml
Norfentanyl	4.054	351295	22035.03	36.9	1269.02	320312	50.3702 ng/ml
Norhydrocodone	3.032	49744	565.76	30.6	241.12	27649	555.8304 ng/ml
Noroxycodone	2.876	489613	618.64	45.8	5721.35	31506	492.5897 ng/ml
O-desmethyl-tramadol	3.334	6224495	327372.63	6.3	2201.86	667293	497.8991 ng/ml
Oxazepam	5.730	40192	309.09	72.2	44.15	5285	492.3802 ng/ml
Oxycodone	2.787	1566451	4169.49	30.7	2020.80	154047	493.0518 ng/ml
Oxymorphone	1.383	348471	∞	48.1	2329.59	27979	471.5668 ng/ml
Phentermine	3.751	432844	1628.59	2.6	376.62	111562	473.8259 ng/ml
Promethazine	5.513	485796	5024.91	30.1	3719.53	45602	494.9943 ng/ml
Quetiapine	5.503	1025920	14111.65	55.3	2619.16	28308	518.8015 ng/ml
Sertraline	5.763	123667	810.57	91.7	5011.46	11204	489.7994 ng/ml
Temazepam	5.797	530521	2841.36	31.6	3242.53	59990	492.0350 ng/ml
Tramadol	4.206	4756711	495155.39	3.5	1599.09	530984	492.8120 ng/ml
Trazodone	5.045	684899	137002.09	76.5	492284.71	55026	475.7249 ng/ml
Venlafaxine	5.007	3258963	151179.23	35.4	30377.40	339449	496.5611 ng/ml
Zolpidem	4.804	4884917	124350.46	31.7	2194.27	492760	496.3034 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2019\AM 28\091019 MDQ TS reinjects\QuantResults\MDQ wklst 3645 TS.batch.bin
Calibration Last Update	9/11/2019 11:38:29 AM

Instrument	Falco	**Data File**	p1 Cal 8-1000ng.d
Type	Cal	**Sample**	p1 Cal 8-1000ng
Acq. Method	MDQ P1 Combined 082219.m	**Operator**	
Sample Position	P2-A12	**Comment**	
Injection Volume	1		
Acq. Date-Time	9/10/2019 11:00:50 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.103	91159	4488.08	74.8	1617.81	20784	100.7609 ng/ml
7-aminoclonazepam	4.224	478551	7916.67	79.7	6115.44	26603	836.2607 ng/ml
a-hydroxyalprazolam	5.666	74970	507.23	68.9	720.18	3989	1084.5559 ng/ml
alpha-PVP	4.330	4203078	386492.88	49.2	154963.41	190078	999.3682 ng/ml
Alprazolam	5.749	1500027	1821.01	107.1	22899.54	43557	1041.4626 ng/ml
Amphetamine	3.028	2841057	25794.99	55.2	28987.92	36752	942.7766 ng/ml
Benzoylecgonine	3.840	643334	1722.99	7.6	1610.31	8268	1977.0355 ng/ml
Buprenorphine	5.692	12499	3589.38	17.3	∞	5976	74.4606 ng/ml
Bupropion	4.752	1423861	66543.95	58.4	55811.54	56453	994.3493 ng/ml
Carisoprodol	5.705	1153722	1137.31	56.2	1464.15	58505	996.7479 ng/ml
Citalopram	5.195	1619318	809.65	42.4	∞	76988	1007.5192 ng/ml
Clonazepam	5.579	241072	∞	32.9	617.99	4500	963.5021 ng/ml
Cocaine	4.230	3958244	399376.42	44.1	131455.74	308466	1011.6609 ng/ml
Codeine	2.536	467631	1156.40	103.8	∞	22708	991.1435 ng/ml
Cyclobenzaprine	5.596	792119	127762.98	11.8	3773.67	35147	1015.0956 ng/ml
Dextromethorphan	5.224	622243	1741.91	80.1	1224.64	29268	999.3255 ng/ml
Dextrorphan	4.093	951001	34319.03	205.0	81508.27	124882	1002.8608 ng/ml
Diazepam	5.934	1117838	1309.20	87.8	14280.20	56137	974.4190 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.501	1442319	56320.27	67.9	5476.57	110505	828.2456 ng/ml
Diphenhydramine	5.265	3410414	89371.83	32.0	4694.17	234571	1003.3385 ng/ml
Doxylamine	4.494	10469945	193585.23	96.9	∞	474077	994.9000 ng/ml
EDDP	5.216	3006749	2720.96	42.2	3833.72	163262	1004.4690 ng/ml
Fentanyl	5.045	64408	7510.58	74.7	∞	33437	106.3485 ng/ml
Fluoxetine	5.695	693437	26113.26	8.6	∞	30168	979.0760 ng/ml
Hydrocodone	2.971	1407765	1169.87	42.0	684.19	97924	952.4122 ng/ml
Hydromorphone	1.587	1078022	960.51	76.1	1428.22	41221	993.0387 ng/ml
Ketamine	4.006	3988425	14611.30	38.0	56662.67	203017	937.4941 ng/ml
Lamotrigine	4.261	260584	∞	82.9	8696.29	203017	875.1322 ng/ml
Lorazepam	5.720	68689	2138.91	50.2	246.76	4500	1014.4277 ng/ml
Meprobamate	4.881	373122	87377.11	26.8	1330.98	19902	974.1171 ng/ml
Methadone	5.634	1657168	196957.58	53.1	20131.88	81577	994.9301 ng/ml
Methamphetamine	3.195	1969022	3073.23	42.9	2773.84	93280	906.6483 ng/ml
Metoprolol	4.292	771101	1074654.79	96.3	13569.48	504464	756.4259 ng/ml
Mirtazapine	4.569	2638716	268624.50	49.4	77560.95	190078	864.9797 ng/ml
Mitragynine	5.173	204671	283692.56	37.7	296004.29	81577	1077.3729 ng/ml
Morphine	1.233	199121	3486.24	19.6	59.35	2904	927.2439 ng/ml
Norbuprenorphine	4.949	915	∞	92.1	2845.21	488	100.4838 ng/ml
Nordiazepam	5.874	258190	2585.97	57.0	1722.41	8628	1013.1798 ng/ml
Norfentanyl	4.054	728149	3680.78	37.6	12813.28	318048	105.1907 ng/ml
Norhydrocodone	3.032	101430	413.43	32.4	436.51	27205	1148.1111 ng/ml
Noroxycodone	2.876	883474	1808.96	47.0	∞	29706	943.0814 ng/ml
O-desmethyl-tramadol	3.341	10925351	209993.34	6.5	13351.29	584443	998.1189 ng/ml
Oxazepam	5.730	79676	233.79	70.4	116.29	5382	961.3762 ng/ml
Oxycodone	2.787	2957972	8787.00	30.6	42014.53	146738	977.9284 ng/ml
Oxymorphone	1.383	642189	1347.26	46.2	1910.06	22047	1103.1266 ng/ml
Phentermine	3.758	857834	6385.54	2.6	899.91	120004	873.8353 ng/ml
Promethazine	5.513	1585126	∞	30.7	3551.35	74135	993.7278 ng/ml
Quetiapine	5.503	2649899	29410.38	57.2	3461.14	41965	904.1622 ng/ml
Sertraline	5.763	346724	2206.75	92.9	19128.51	15086	1019.7519 ng/ml
Temazepam	5.797	967204	14651.99	31.1	1772.54	54514	987.3545 ng/ml
Tramadol	4.206	8454041	45185.71	3.6	3510.17	504464	922.6600 ng/ml
Trazodone	5.045	2141013	16678.61	77.3	268692.64	77342	1056.0526 ng/ml
Venlafaxine	5.007	6836437	9718.36	35.2	∞	351704	1005.5419 ng/ml
Zolpidem	4.804	9004605	2611.07	31.7	59167.88	478008	943.4186 ng/ml