







Worklist: 3696

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2019-3058	1	164058	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-3588	1	164059	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-3622	1	164060	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-3634	6	164061	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2646	1	164062	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2650	1	164063	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2652	1	164064	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2654	1	164065	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2660	1	164066	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2684	1	164067	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2685	1	164068	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2691	1	164069	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2710	1	164070	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2736	1	164071	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-2744	1	164072	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: 9/17/19 Analyst: Sarah Pickle
 Plate lot#: 190729 Item #: IDP-111 Plate Expiration: 01/29/20

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

Blank Blood Lot: 445283-2 **Column:** ~~Agilent 120 EC-C18 (2.1x 100-4um) ♪~~

LCMS-QQQ ID: 069901

Agilent 120 EC-C18 (2.1 x 100-2.7um) 10/2/19

Pre-Analytic:

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

Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **250 µL 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 **250 µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300 µL 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 **900 µL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left)*.
- 12. Add **900 µL 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 **100 µL 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\091719 MDQ SP* Batch Name: *MDQ*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: **Curve Range Limited:** 7-aminoclonazepam 5-250, buprenorphine 5-100, cyclobenzaprine 10-1000 (reported qualitatively), fluoxetine 10-1000, lamotrigine 5-100, lorazepam 10-1000, meprobamate 5-500, mirtazapine 5-500, norhydrocodone 5-500, trazadone 5-500, metoprolol 5-500

Did Not Evaluate: norbuprenorphine, doxylamine

AM #28 Multi-Drug Quant. Results



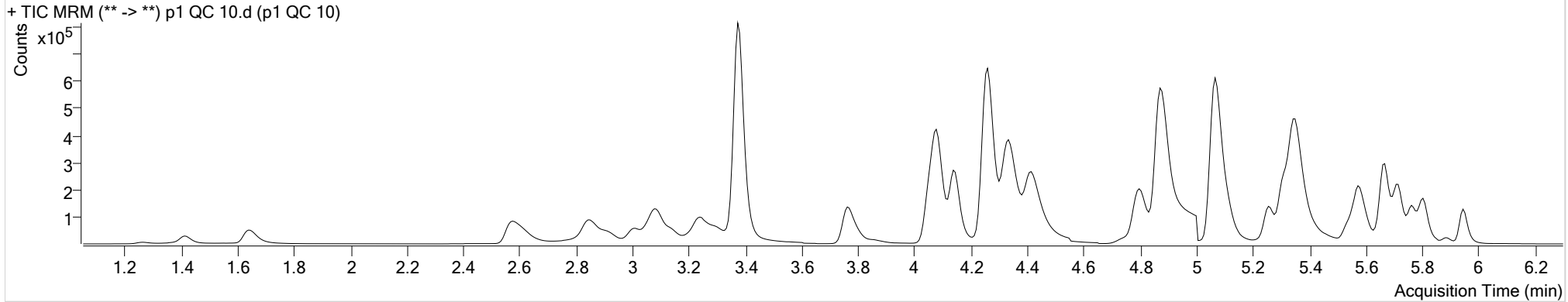
Batch results
Calibration Last Update

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9/18/2019 8:54:35 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-A6
Injection Volume 2.5
Acq. Date-Time 9/17/2019 3:36:46 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	2579	6275.64	73.8	1465.57	57283	1.0374 ng/ml
7-aminoclonazepam	4.258	27037	7684.99	80.6	12742.98	114802	10.3969 ng/ml
a-hydroxyalprazolam	5.693	1972	98.44	59.8	429.55	10118	11.3749 ng/ml
alpha-PVP	4.431	148902	59.38	49.7	644.42	655127	10.4257 ng/ml
Alprazolam	5.770	49823	924.83	110.2	862.29	157686	10.2830 ng/ml
Amphetamine	3.088	132341	969.87	58.3	2934.14	178451	10.9223 ng/ml
Benzoylcegonine	3.887	3424	662.60	8.2	8.71 Low	15900	9.7175 ng/ml
Bupropion	4.813	135034	11723.08	57.2	2034.68	459085	10.2695 ng/ml
Carisoprodol	5.719	26218	2938.90	57.2	167.50	127689	10.1469 ng/ml
Citalopram	5.255	67585	1204.13	42.1	745.61	315787	10.2533 ng/ml
Clonazepam	5.607	5932	288.47	33.3	∞	10007	10.3821 ng/ml
Cocaine	4.331	148327	5073.87	44.2	4475.37	1224323	9.5706 ng/ml
Codeine	2.623	16361	1840.34	108.8	5378.34	75536	10.3015 ng/ml
Cyclobenzaprine	5.657	40164	84.69	11.0	29.80	182738	10.1032 ng/ml
Dextromethorphan	5.346	38787	4007.36	81.6	∞	182800	10.1241 ng/ml
Dextrorphan	4.147	43130	7411.90	200.3	545.16	518719	10.5963 ng/ml
Diazepam	5.955	41573	564.92	84.6	514.26	184559	10.3298 ng/ml
Dihydrocodeine	2.608	46353	9178.65	67.1	1232.44	256555	10.2231 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.353	172354	6033.07	31.9	1574.16	1136880	10.2065 ng/ml
EDDP	5.311	99508	70.72	41.6	276.30	532474	10.1245 ng/ml
Fentanyl	5.099	4564	2523.59	81.9	3544.23	245498	1.0804 ng/ml
Fluoxetine	5.722	49630	305.60	8.4	223.91	201052	10.3835 ng/ml
Hydrocodone	3.099	37835	259.28	33.6	16.43	242205	9.6354 ng/ml
Hydromorphone	1.654	33350	390.32	74.2	922.06	124460	9.7849 ng/ml
Ketamine	4.074	132613	7071.82	36.3	309.34	583532	10.3841 ng/ml
Lamotrigine	4.288	11596	898.73	77.2	848.74	583532	10.0173 ng/ml
Lorazepam	5.741	2195	59.20	53.8	52.29	10007	8.8811 ng/ml
Meprobamate	4.902	8623	1299.08	28.2	79.27	43779	9.6276 ng/ml
Methadone	5.668	83590	335.72	54.0	2526.85	402498	10.3448 ng/ml
Methamphetamine	3.309	102533	893.86	44.8	1137.67	465838	10.5643 ng/ml
Metoprolol	4.340	34046	141981.72	91.2	1723.90	1583659	13.2708 ng/ml
Mirtazapine	4.758	109576	231.66	48.6	129.19	655127	21.0784 ng/ml
Mitragynine	5.227	15016	32572.28	38.8	341.13	402498	12.3264 ng/ml
Morphine	1.273	7675	7847.79	20.5	6202.31	8127	10.1709 ng/ml
Nordiazepam	5.894	7593	14684.48	59.7	304.24	24071	10.3574 ng/ml
Norfentanyl	4.108	17366	3311.94	36.8	562.93	795722	0.9649 ng/ml
Norhydrocodone	3.100	1813	50.09	28.7	48.39	72817	9.0564 ng/ml
Noroxycodone	2.930	28174	292.81	45.3	∞	84337	10.4616 ng/ml
O-desmethyl-tramadol	3.381	338949	4780.17	6.3	752.47	1786934	10.1633 ng/ml
Oxazepam	5.751	2398	61.84	80.2	9.17 Low	15279	9.9082 ng/ml
Oxycodone	2.868	72081	736.56	31.2	247.64	335889	9.8678 ng/ml
Oxymorphone	1.417	19015	242.88	47.1	99.47	73176	9.6165 ng/ml
Phentermine	3.798	42258	615.07	2.6	34.36	445670	10.8965 ng/ml
Promethazine	5.582	100437	∞	30.0	127.34	444058	10.3422 ng/ml
Quetiapine	5.551	89204	557.39	57.2	10037.42	117602	9.5711 ng/ml
Sertraline	5.797	25108	383.32	94.1	∞	112860	10.4682 ng/ml
Temazepam	5.811	29961	308.84	31.3	238.01	152806	10.5344 ng/ml
Tramadol	4.273	330705	708.29	3.4	204.00	1583659	10.6053 ng/ml
Trazodone	5.113	78424	8433.68	75.6	16691.21	314529	9.8979 ng/ml
Venlafaxine	5.068	210608	∞	36.1	188.77	1150078	9.9100 ng/ml
Zolpidem	4.891	260967	849.30	32.9	13179.74	1246718	10.3880 ng/ml

AM #28 Multi-Drug Quant. Results



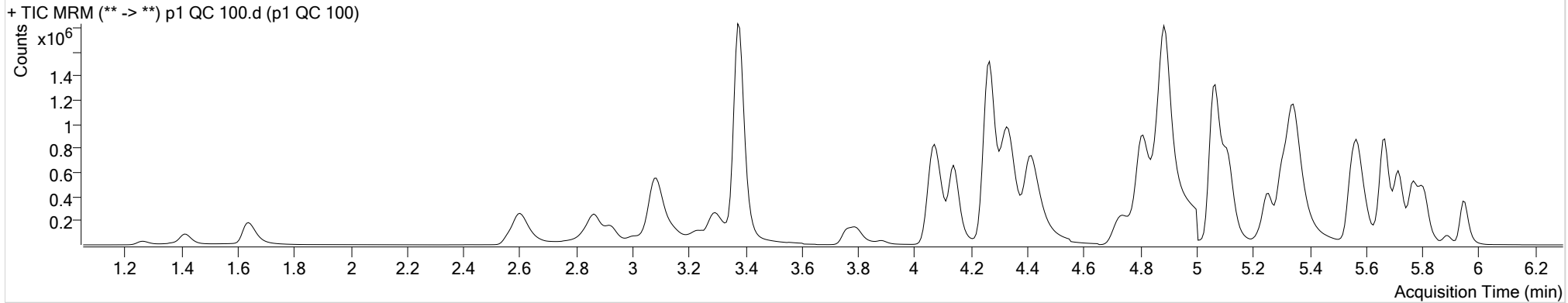
Batch results
Calibration Last Update

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9/18/2019 8:54:35 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-B6
Injection Volume 2.5
Acq. Date-Time 9/17/2019 3:57:47 PM
Sample Info.

Data File p1 QC 100.d
Sample p1 QC 100
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.150	22200	924.49	77.8	8016.69	52038	9.5959 ng/ml
7-aminoclonazepam	4.258	219462	1975.21	81.0	59427.97	109795	96.9241 ng/ml
a-hydroxyalprazolam	5.693	16002	196.70	68.7	544.00	9185	101.0236 ng/ml
alpha-PVP	4.418	1354406	32437.84	49.9	15187.19	628403	100.6487 ng/ml
Alprazolam	5.770	431023	1770.69	106.5	2360.65	134725	95.7172 ng/ml
Amphetamine	3.088	1053404	12041.38	56.2	19015.71	163872	106.8202 ng/ml
Benzoylcegonine	3.880	33162	5684.68	7.1	348.06	16041	93.9680 ng/ml
Buprenorphine	5.746	10378	2755.27	13.6	5219.15	32880	11.7953 ng/ml
Bupropion	4.806	1202183	56100.69	58.1	182.14	423392	105.4505 ng/ml
Carisoprodol	5.719	232543	15771.66	57.7	∞	116476	100.0125 ng/ml
Citalopram	5.255	636940	10295.89	42.6	728.65	299830	99.7415 ng/ml
Clonazepam	5.600	56929	15119.75	31.3	∞	10535	98.0655 ng/ml
Cocaine	4.324	1343492	33877.91	44.6	88699.49	1063779	103.1941 ng/ml
Codeine	2.617	142814	6287.98	107.1	108.68	68204	101.2465 ng/ml
Cyclobenzaprine	5.657	412321	22713.53	11.2	230.33	184184	100.8360 ng/ml
Dextromethorphan	5.332	379761	8629.85	81.8	14257.78	185167	98.8254 ng/ml
Dextrorphan	4.140	380758	1194.65	205.4	1666.87	473259	102.3323 ng/ml
Diazepam	5.955	337055	24271.05	85.2	1201.82	158695	102.0841 ng/ml

AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.601	409786	46805.90	68.2	7853.40	242647	104.2738 ng/ml	
Diphenhydramine	5.353	1619327	50498.55	32.1	12337.27	1090744	101.6803 ng/ml	
Doxylamine	4.899	1636345	13556.44	61.4 Low	15895.79	772277	7.7475 ng/ml	did not evaluate
EDDP	5.304	918208	180.75	41.2	609.76	502252	100.3019 ng/ml	
Fentanyl	5.099	46387	2394.44	80.4	203.51	256289	10.2214 ng/ml	
Fluoxetine	5.722	496046	∞	8.6	86301.67	204194	100.7763 ng/ml	
Hydrocodone	3.085	339176	1442.04	41.1	920.73	233408	93.9385 ng/ml	
Hydromorphone	1.641	312098	∞	74.2	1171.12	118282	98.0690 ng/ml	
Ketamine	4.067	1178470	86292.39	37.6	655.44	548532	102.6536 ng/ml	
Lamotrigine	4.288	96131	6759.18	77.6	23688.10	548532	90.0533 ng/ml	
Lorazepam	5.741	17330	1152.32	52.3	114.48	10535	83.9692 ng/ml	
Meprobamate	4.908	78137	308.48	27.8	3029.48	38102	95.9845 ng/ml	
Methadone	5.668	806068	1090.40	55.1	1212.43	409361	98.2412 ng/ml	
Methamphetamine	3.295	854750	169.95	42.0	∞	399174	109.9127 ng/ml	
Metoprolol	4.340	272218	11058.85	94.0	∞	1460855	126.2982 ng/ml	
Mirtazapine	4.737	1093120	171266.85	51.1	1314.72	628403	219.3870 ng/ml	
Mitragynine	5.227	152578	2750.54	38.4	229756.47	409361	117.1770 ng/ml	
Morphine	1.266	67969	17017.08	21.4	179.53	7151	107.6115 ng/ml	
Norbuprenorphine	4.997	604	∞	105.9	7519.68	3045	10.6274 ng/ml	did not evaluate
Nordiazepam	5.894	72696	3080.35	57.2	816.04	23450	104.6853 ng/ml	
Norfentanyl	4.108	167855	642.96	36.4	228.89	735065	9.5718 ng/ml	
Norhydrocodone	3.093	21972	174.89	29.9	127.09	67135	101.4798 ng/ml	
Noroxycodone	2.923	242641	3083.32	47.1	948.43	75136	104.8642 ng/ml	
O-desmethyl-tramadol	3.381	3059153	2048.12	6.4	1110.73	1665225	101.4029 ng/ml	
Oxazepam	5.744	19770	132.09	72.5	∞	12538	103.2151 ng/ml	
Oxycodone	2.861	677753	14819.43	31.3	9009.86	320263	101.0406 ng/ml	
Oxymorphone	1.417	166439	945.52	47.1	552.81	67648	96.1077 ng/ml	
Phentermine	3.798	330583	∞	2.7	71.71	392985	107.9788 ng/ml	
Promethazine	5.576	1042946	482.87	30.2	12842.08	480145	99.6252 ng/ml	
Quetiapine	5.551	862907	80572.03	56.6	1707.09	117217	97.1799 ng/ml	
Sertraline	5.797	244201	950.98	93.8	2932.03	114587	96.1508 ng/ml	
Temazepam	5.811	265290	3707.86	31.4	790.92	138150	104.3161 ng/ml	
Tramadol	4.267	2873764	∞	3.4	1455.89	1460855	107.7628 ng/ml	
Trazodone	5.113	788739	3394.09	77.2	2540.31	314505	96.5532 ng/ml	
Venlafaxine	5.068	1921415	∞	36.2	713.91	1059010	98.4320 ng/ml	
Zolpidem	4.891	2408932	83394.66	32.2	523.58	1183216	106.6032 ng/ml	

AM #28 Multi-Drug Quant. Results



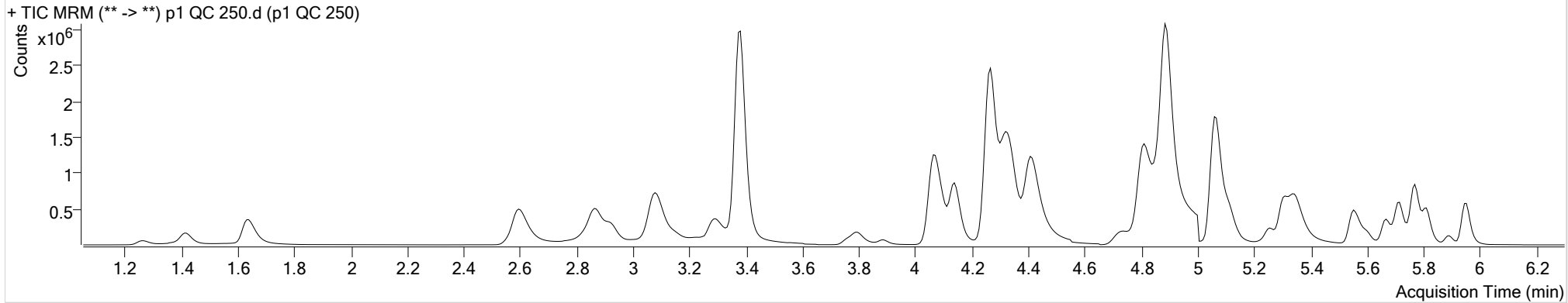
Batch results
Calibration Last Update

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9/18/2019 8:54:35 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-C6
Injection Volume 2.5
Acq. Date-Time 9/17/2019 4:18:46 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.150	49000	13022.56	75.3	33273.80	43746	25.1496 ng/ml
7-aminoclonazepam	4.258	349687	397.68	82.0	14208.54	81175	210.2294 ng/ml
a-hydroxyalprazolam	5.693	40896	888.27	66.5	310.50	8806	269.1755 ng/ml
alpha-PVP	4.418	2550953	131387.05	50.0	69840.77	478565	249.2290 ng/ml
Alprazolam	5.770	849462	2187.78	106.4	2398.43	104033	242.8627 ng/ml
Amphetamine	3.088	1215293	148.16	55.5	76432.28	80391	253.3527 ng/ml
Benzoylcegonine	3.887	81299	1086.49	7.5	749.80	15298	241.6873 ng/ml
Buprenorphine	5.740	5042	550.79	17.1	805.64	7224	28.8644 ng/ml
Bupropion	4.806	1560072	472798.92	57.5	438.66	222962	260.9258 ng/ml
Carisoprodol	5.719	604487	42653.81	57.6	∞	119445	253.7535 ng/ml
Citalopram	5.255	405679	5553.46	43.1	628.22	76794	247.6921 ng/ml
Clonazepam	5.600	124531	2492.42	31.3	4205.42	8873	255.3693 ng/ml
Cocaine	4.318	2737209	123007.53	44.2	28045.81	898620	249.4005 ng/ml
Codeine	2.610	278536	17639.49	109.7	225.27	55635	242.3402 ng/ml
Cyclobenzaprine	5.657	103359	527.55	11.1	84.69	18945	245.4195 ng/ml
Dextromethorphan	5.339	187830	10541.61	82.1	7621.13	35967	251.8096 ng/ml
Dextrorphan	4.140	595649	10005.94	206.3	105777.77	294419	257.6305 ng/ml
Diazepam	5.955	637836	18791.80	85.6	5542.37	123623	248.7807 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.595	860510	87531.34	67.9	84673.32	210027	254.4617 ng/ml	
Diphenhydramine	5.353	1080961	26572.84	32.0	890.81	289223	256.2770 ng/ml	
Doxylamine	4.845	3289306	43632.54	100.4	17934.73	618574	137.2516 ng/ml	did not evaluate
EDDP	5.304	1189450	480.20	41.6	373.21	251547	259.6551 ng/ml	
Fentanyl	5.099	13886	209.63	77.3	∞	30546	25.6205 ng/ml	
Fluoxetine	5.722	106049	2942.04	8.5	∞	17253	254.7492 ng/ml	
Hydrocodone	3.072	711539	2964.36	42.2	∞	187195	246.5571 ng/ml	
Hydromorphone	1.641	666896	6905.38	71.6	3847.95	103012	240.9005 ng/ml	
Ketamine	4.067	2355803	13300.04	38.0	1771.48	446208	253.0400 ng/ml	
Lamotrigine	4.288	165815	16645.88	79.7	13842.58	446208	191.1979 ng/ml	outside curve range
Lorazepam	5.741	38184	1716.95	53.0	92.67	8873	223.9893 ng/ml	
Meprobamate	4.908	164319	35249.92	28.1	1048.94	31143	246.2443 ng/ml	
Methadone	5.668	403185	25124.96	54.3	76588.20	83024	242.3129 ng/ml	
Methamphetamine	3.295	1221558	302.69	42.1	8599.62	242978	259.1604 ng/ml	
Metoprolol	4.340	471885	∞	95.3	∞	1211032	265.7034 ng/ml	
Mirtazapine	4.737	814740	25286.19	51.1	545.77	478565	214.7129 ng/ml	
Mitragynine	5.227	55408	164759.55	36.9	∞	83024	209.2847 ng/ml	
Morphine	1.266	138036	1830.22	21.5	390.59	6227	251.7450 ng/ml	
Norbuprenorphine	4.997	317	897.38	100.7	2805.06	720	22.5649 ng/ml	did not evaluate
Nordiazepam	5.894	147918	1805.82	57.7	1390.85	19326	258.9479 ng/ml	
Norfentanyl	4.108	329774	19172.01	36.3	2889.46	562809	24.4738 ng/ml	
Norhydrocodone	3.093	48424	1725.23	31.4	161.89	54602	272.5211 ng/ml	
Noroxycodone	2.923	487769	1384.38	47.8	376.66	64835	244.8683 ng/ml	
O-desmethyl-tramadol	3.381	6529308	136045.95	6.4	13424.48	1388521	260.0929 ng/ml	
Oxazepam	5.744	43055	159.19	68.2	101.95	11372	248.3949 ng/ml	
Oxycodone	2.861	1589568	18689.29	31.3	8623.28	290051	262.3279 ng/ml	
Oxymorphone	1.417	370395	∞	47.0	604.21	57622	252.0547 ng/ml	
Phentermine	3.798	480448	1337.64	2.9	82.99	247664	250.8861 ng/ml	
Promethazine	5.582	259544	18282.96	30.0	8506.12	48771	244.1305 ng/ml	
Quetiapine	5.551	721008	2013.30	55.9	19749.36	37556	254.2289 ng/ml	
Sertraline	5.797	47831	1914.04	94.8	5245.09	8673	248.0526 ng/ml	
Temazepam	5.811	578652	1778.16	31.1	739.36	119574	263.0825 ng/ml	
Tramadol	4.267	5673795	∞	3.5	1584.73	1211032	257.9404 ng/ml	
Trazodone	5.113	466987	56542.68	75.9	98084.48	68932	260.2593 ng/ml	
Venlafaxine	5.061	3494704	∞	35.9	14815.70	755089	251.1319 ng/ml	
Zolpidem	4.884	4915808	1205.33	31.9	73904.02	972839	265.5295 ng/ml	

AM #28 Multi-Drug Quant. Results



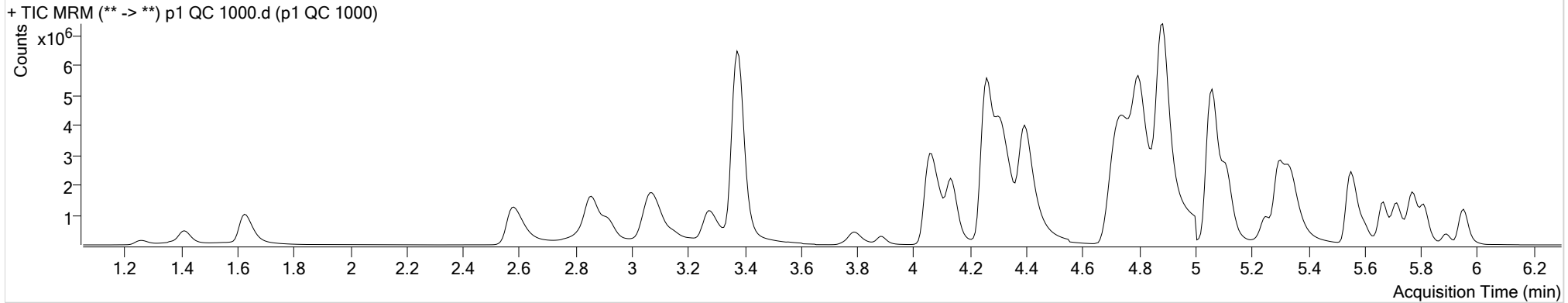
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
9/18/2019 8:54:35 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-D6
Injection Volume 2.5
Acq. Date-Time 9/17/2019 4:39:44 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	3.150	168056	2280.25	74.7	14236.94	37441	100.6982 ng/ml
7-aminoclonazepam	4.251	522110	33040.18	81.5	6308.96	53373	478.8640 ng/ml outside curve range
a-hydroxyalprazolam	5.693	132793	970.86	71.1	613.05	7576	1015.7632 ng/ml
alpha-PVP	4.398	9064947	170017.12	50.5	154236.69	417230	1016.4909 ng/ml
Alprazolam	5.770	2023612	∞	103.4	∞	58900	1018.9334 ng/ml
Amphetamine	3.081	3189669	25473.37	53.6	78650.06	65072	825.0436 ng/ml
Benzoylcegonine	3.887	359076	88813.22	7.4	18647.00	15929	1025.4030 ng/ml
Buprenorphine	5.740	10162	∞	17.0	∞	4415	100.4826 ng/ml
Bupropion	4.800	5255026	128696.87	57.9	77163.32	187318	1048.3590 ng/ml
Carisoprodol	5.719	1481169	200388.20	57.1	83021.61	75696	981.5774 ng/ml
Citalopram	5.249	1684269	∞	42.4	34254.69	78810	1001.3607 ng/ml
Clonazepam	5.600	461025	2143.48	32.4	∞	8963	937.0348 ng/ml
Cocaine	4.304	8746148	363272.31	44.5	312792.84	707724	1012.9661 ng/ml
Codeine	2.603	818346	6402.69	103.7	14548.53	40065	989.2916 ng/ml
Cyclobenzaprine	5.651	501367	26052.01	11.0	∞	20943	1076.1612 ng/ml
Dextromethorphan	5.326	786468	∞	80.8	12801.25	37532	1010.7538 ng/ml
Dextrorphan	4.133	1787508	4349.82	204.0	3186.67	216368	1052.6470 ng/ml
Diazepam	5.955	1555208	20238.70	85.0	772.58	80736	930.3393 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.575	2502434	79746.60	68.9	25972.11	186237	836.9035 ng/ml	
Diphenhydramine	5.346	4376214	204330.54	32.3	16214.97	289998	1035.3470 ng/ml	
Doxylamine	4.926	3320224	21636.77	99.9	44732.30	130913	948.7853 ng/ml	did not evaluate
EDDP	5.297	5561989	138670.32	42.4	118953.91	301773	1012.5037 ng/ml	
Fentanyl	5.099	63145	∞	79.5	129.19	31885	111.5034 ng/ml	
Fluoxetine	5.722	339864	24061.36	8.3	171339.99	13838	1017.3851 ng/ml	
Hydrocodone	3.052	2737766	2461.62	40.6	1871.17	176921	1005.3537 ng/ml	
Hydromorphone	1.628	2059524	∞	76.0	∞	85099	901.0928 ng/ml	
Ketamine	4.061	7239007	574349.28	37.1	9793.50	372140	933.7344 ng/ml	
Lamotrigine	4.281	253373	36230.41	80.7	15394.08	372140	350.4897 ng/ml	outside curve range
Lorazepam	5.741	153651	∞	50.2	1675.74	8963	900.2500 ng/ml	
Meprobamate	4.908	409010	27178.15	27.7	1579.97	15400	1237.7210 ng/ml	outside curve range
Methadone	5.668	1784243	29509.18	54.5	43024.84	91631	971.6601 ng/ml	
Methamphetamine	3.275	3306010	32634.61	41.9	13667.52	192174	888.7899 ng/ml	
Metoprolol	4.340	1083820	∞	96.6	∞	863289	859.3510 ng/ml	outside curve range
Mirtazapine	4.704	3437860	506.97	51.0	35039.57	417230	1039.2533 ng/ml	outside curve range
Mitragynine	5.220	257681	28587.68	37.4	21758.70	91631	879.7488 ng/ml	
Morphine	1.260	389937	789.71	22.9	5453.60	4787	926.6325 ng/ml	
Norbuprenorphine	4.997	1261	2582.65	90.4	1310.02	654	96.0302 ng/ml	did not evaluate
Nordiazepam	5.894	456233	7454.20	57.6	63605.36	15355	1006.1918 ng/ml	
Norfentanyl	4.101	1180281	56577.72	36.4	644.55	428899	114.7364 ng/ml	
Norhydrocodone	3.086	168913	342.37	34.2	325.57	41153	1255.9945 ng/ml	outside curve range
Noroxycodone	2.916	1456350	∞	46.9	559.47	49878	951.5851 ng/ml	
O-desmethyl-tramadol	3.374	18700226	466839.98	6.5	87532.59	1029262	1005.9067 ng/ml	
Oxazepam	5.744	171643	866.57	72.9	1475.48	11802	955.3754 ng/ml	
Oxycodone	2.854	5728520	∞	31.7	∞	271191	1012.3329 ng/ml	
Oxymorphone	1.410	1234345	2919.06	47.3	410.26	50123	967.3375 ng/ml	
Phentermine	3.792	1419575	752.53	2.8	1234.27	218045	845.3704 ng/ml	
Promethazine	5.576	1355694	25715.56	30.7	43847.95	61710	1007.9127 ng/ml	
Quetiapine	5.551	3716908	2221.32	57.7	1285.95	51233	962.0788 ng/ml	
Sertraline	5.797	158941	4085.03	94.2	619.93	7359	970.0329 ng/ml	
Temazepam	5.811	1775448	9791.10	30.9	951.21	95183	1014.4148 ng/ml	
Tramadol	4.260	15636307	∞	3.5	357.48	863289	999.8679 ng/ml	
Trazodone	5.113	2828898	219350.02	78.3	298592.68	75661	1434.8702 ng/ml	outside curve range
Venlafaxine	5.064	12300163	∞	35.6	2522.81	669714	996.6586 ng/ml	
Zolpidem	4.884	14817824	200573.03	31.3	108995.60	852941	914.4585 ng/ml	

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin

Calibration Last Update

9/18/2019 8:54:35 AM

Instrument

Falco

Data File

p1 Negative.d

Type

Sample

Sample

p1 Negative

Acq. Method

MDQ P1 Combined 082219.m

Operator

Comment

Sample Position

P1-E6

Injection Volume

2.5

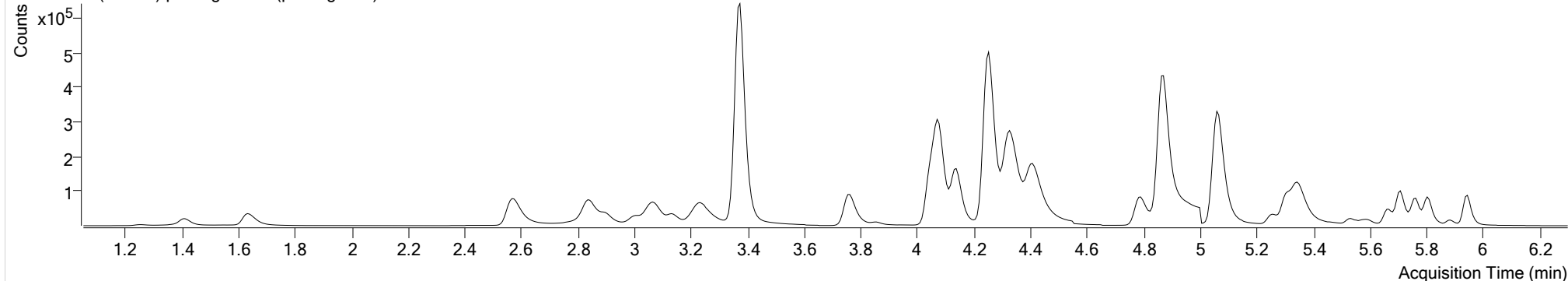
Acq. Date-Time

9/17/2019 5:32:13 PM

Sample Info.

Sample Chromatogram

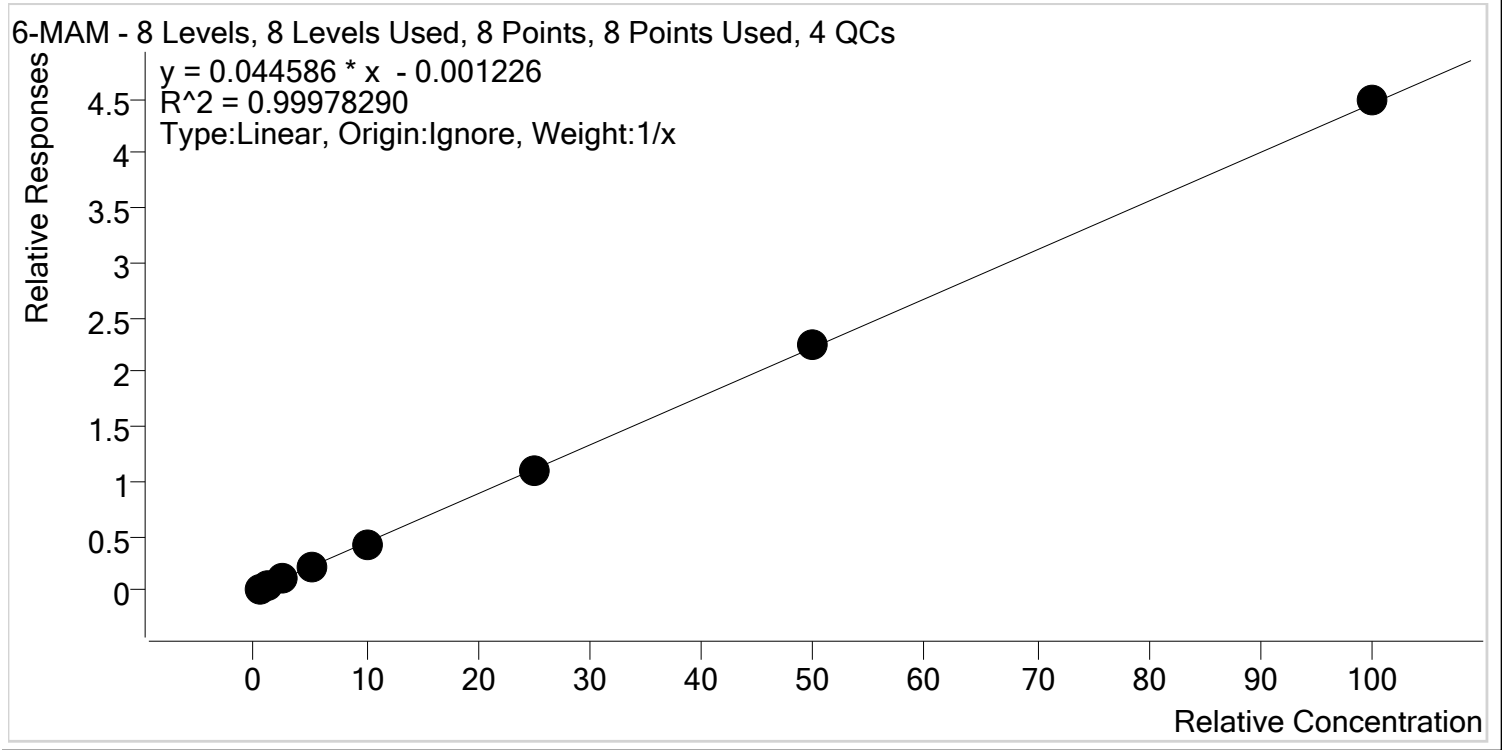
+ TIC MRM (** -> **) p1 Negative.d (p1 Negative)





AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

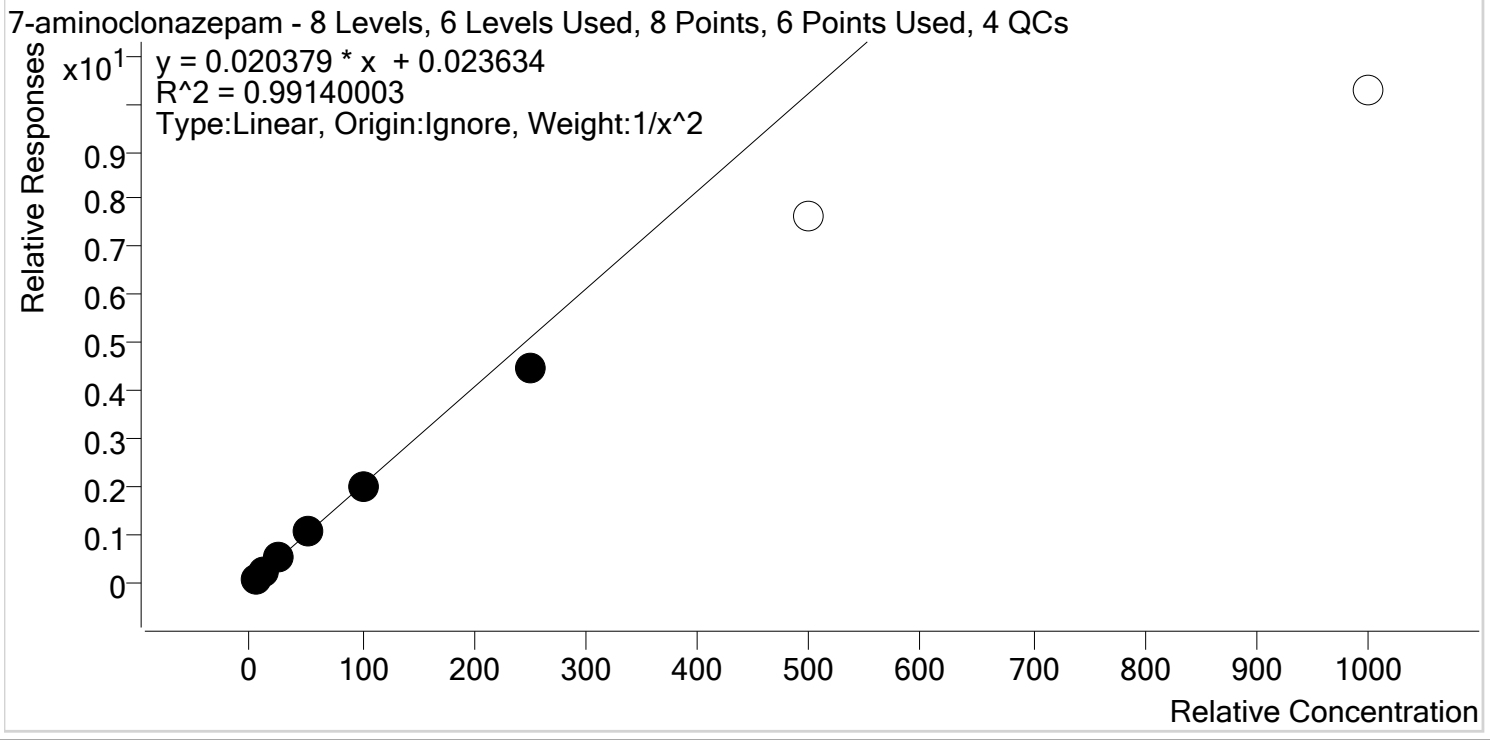


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	105.1
p1 Cal 2- 10ng	2	✓	1.0	1.0	105.0
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.5
p1 Cal 4-50ng	4	✓	5.0	4.9	97.4
p1 Cal 5-100ng	5	✓	10.0	9.7	96.7
p1 Cal 6-250ng	6	✓	25.0	24.5	97.9
p1 Cal 7-500ng	7	✓	50.0	50.4	100.7
p1 Cal 8-1000ng	8	✓	100.0	100.6	100.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

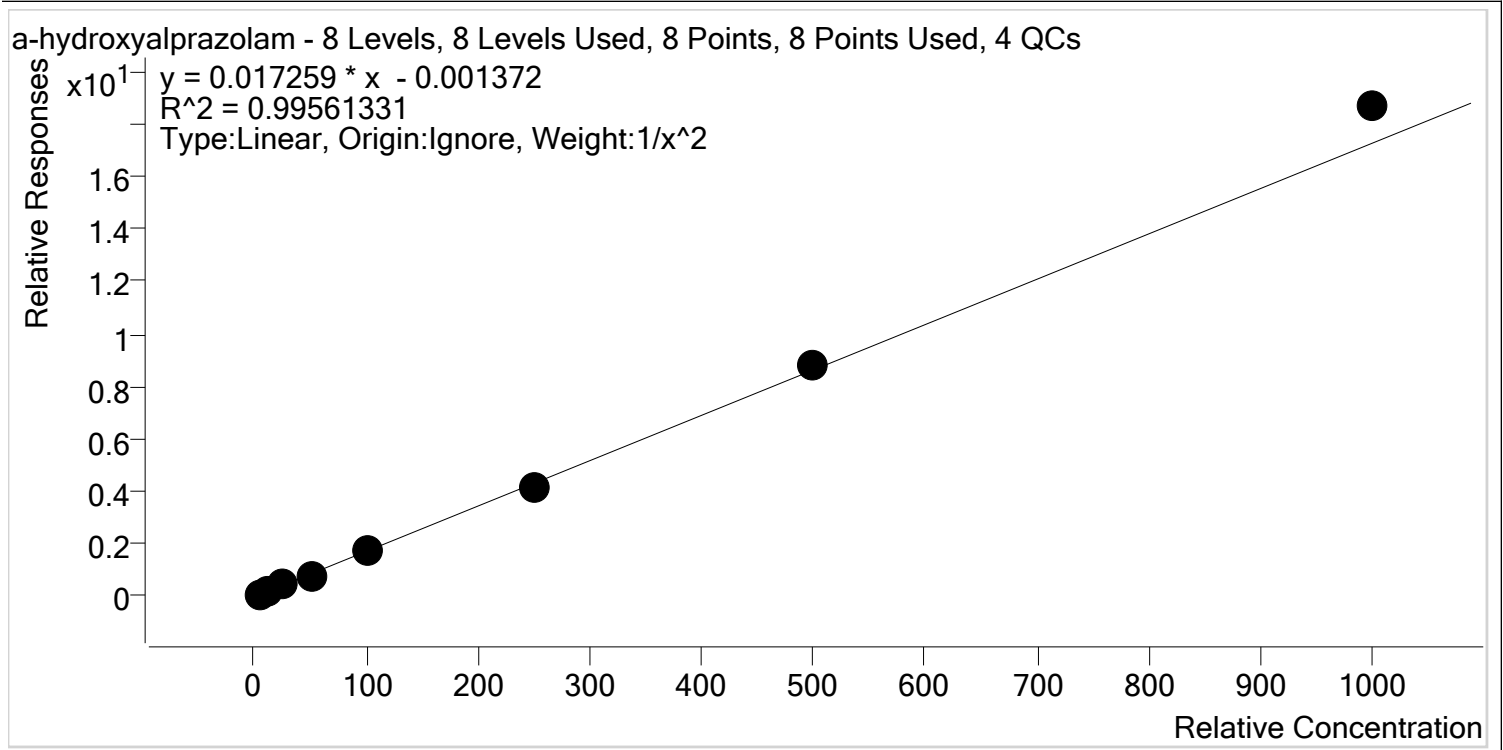


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	27.0	108.1
p1 Cal 4-50ng	4	✓	50.0	53.6	107.1
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	219.0	87.6
p1 Cal 7-500ng	7	x	500.0	376.0	75.2
p1 Cal 8-1000ng	8	x	1000.0	502.2	50.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 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	1	✓	5.0	5.3	105.4
p1 Cal 2- 10ng	2	✓	10.0	9.0	89.9
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	48.4	96.7
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	241.1	96.4
p1 Cal 7-500ng	7	✓	500.0	507.7	101.5
p1 Cal 8-1000ng	8	✓	1000.0	1081.5	108.2

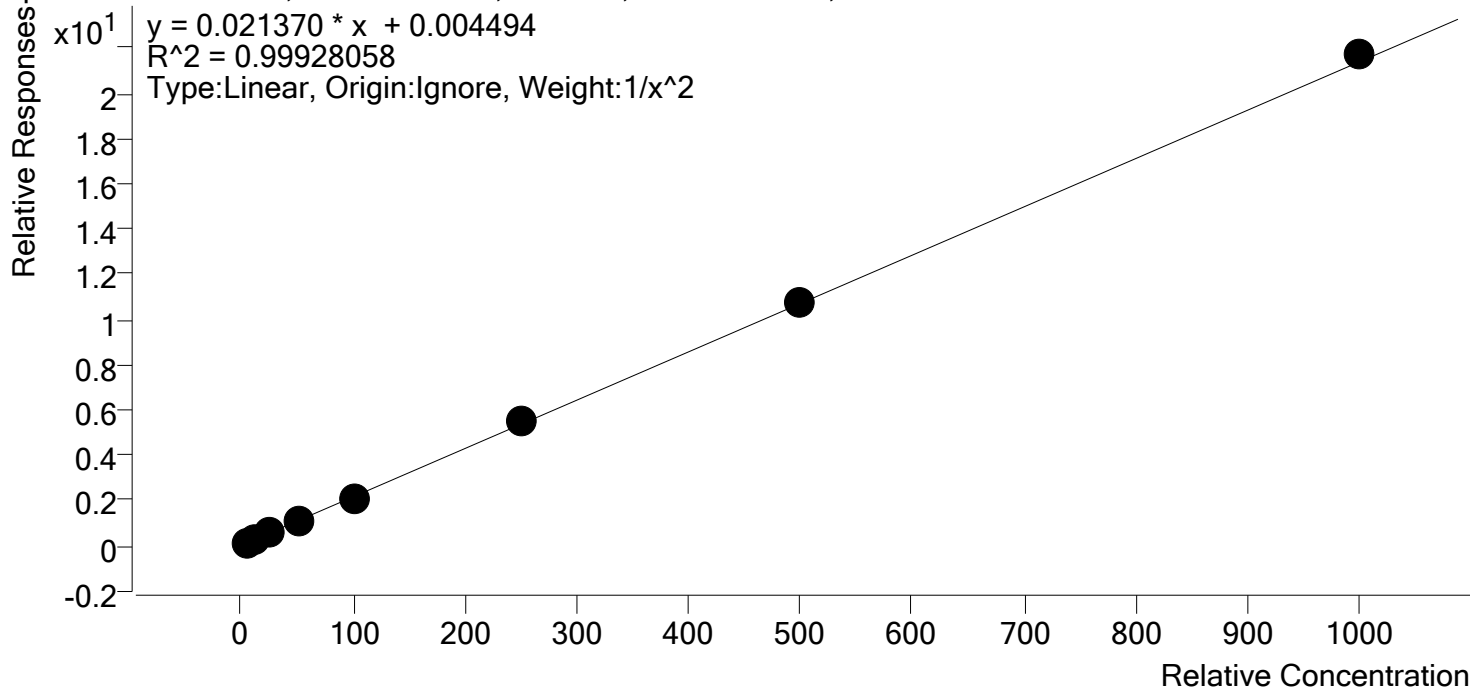
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

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



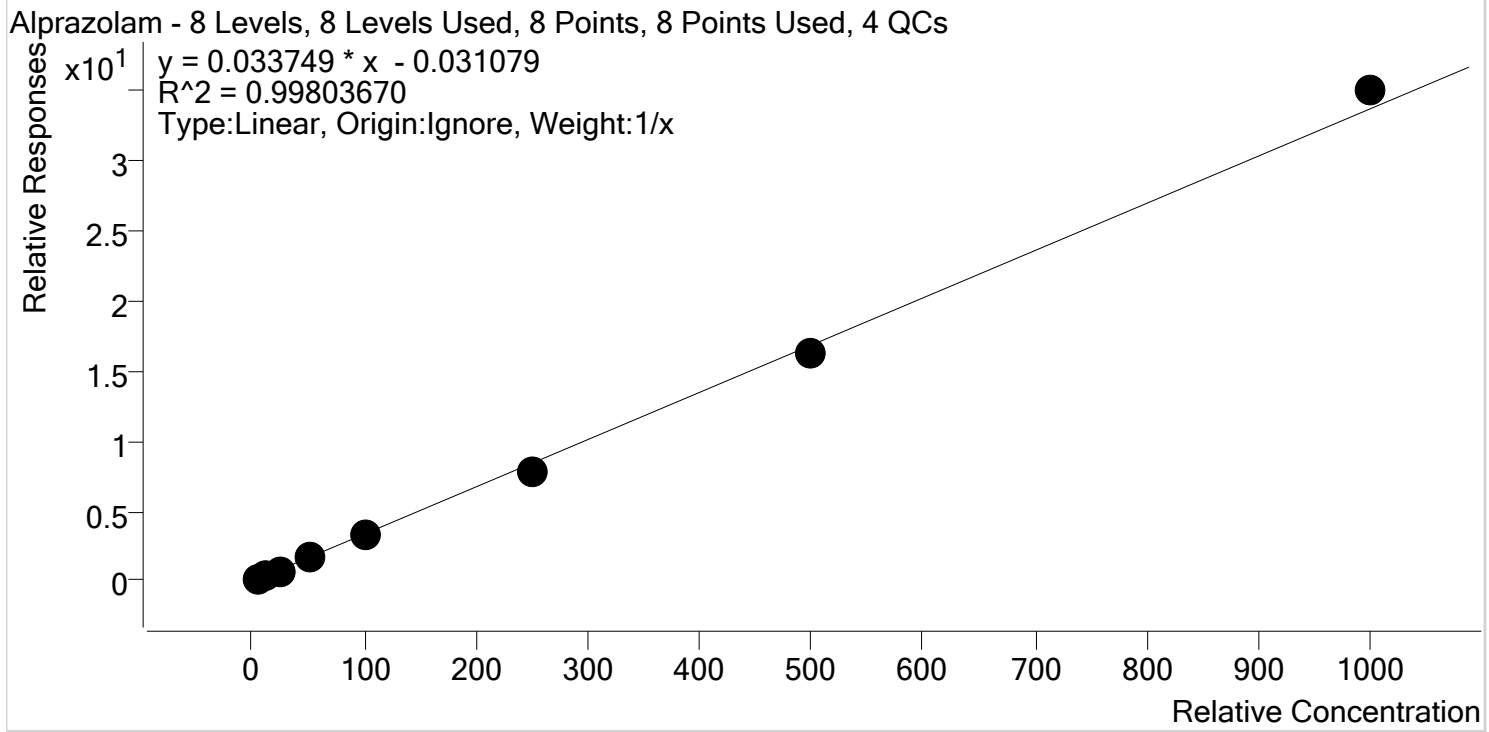
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	48.1	96.2
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	260.2	104.1
p1 Cal 7-500ng	7	✓	500.0	500.5	100.1
p1 Cal 8-1000ng	8	✓	1000.0	1015.3	101.5

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5



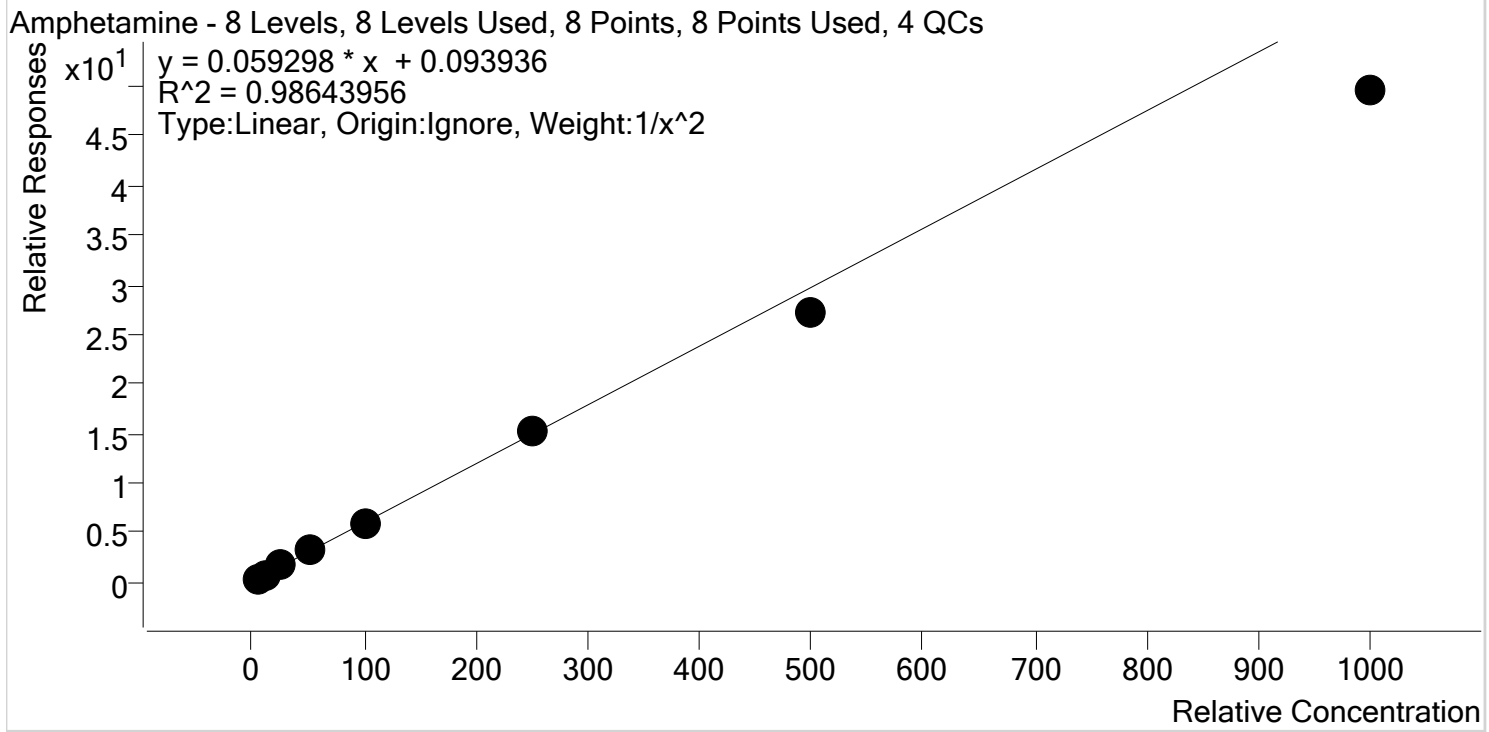
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	114.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	24.0	95.9
p1 Cal 4-50ng	4	✓	50.0	48.4	96.8
p1 Cal 5-100ng	5	✓	100.0	95.6	95.6
p1 Cal 6-250ng	6	✓	250.0	233.8	93.5
p1 Cal 7-500ng	7	✓	500.0	483.6	96.7
p1 Cal 8-1000ng	8	✓	1000.0	1038.6	103.9

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

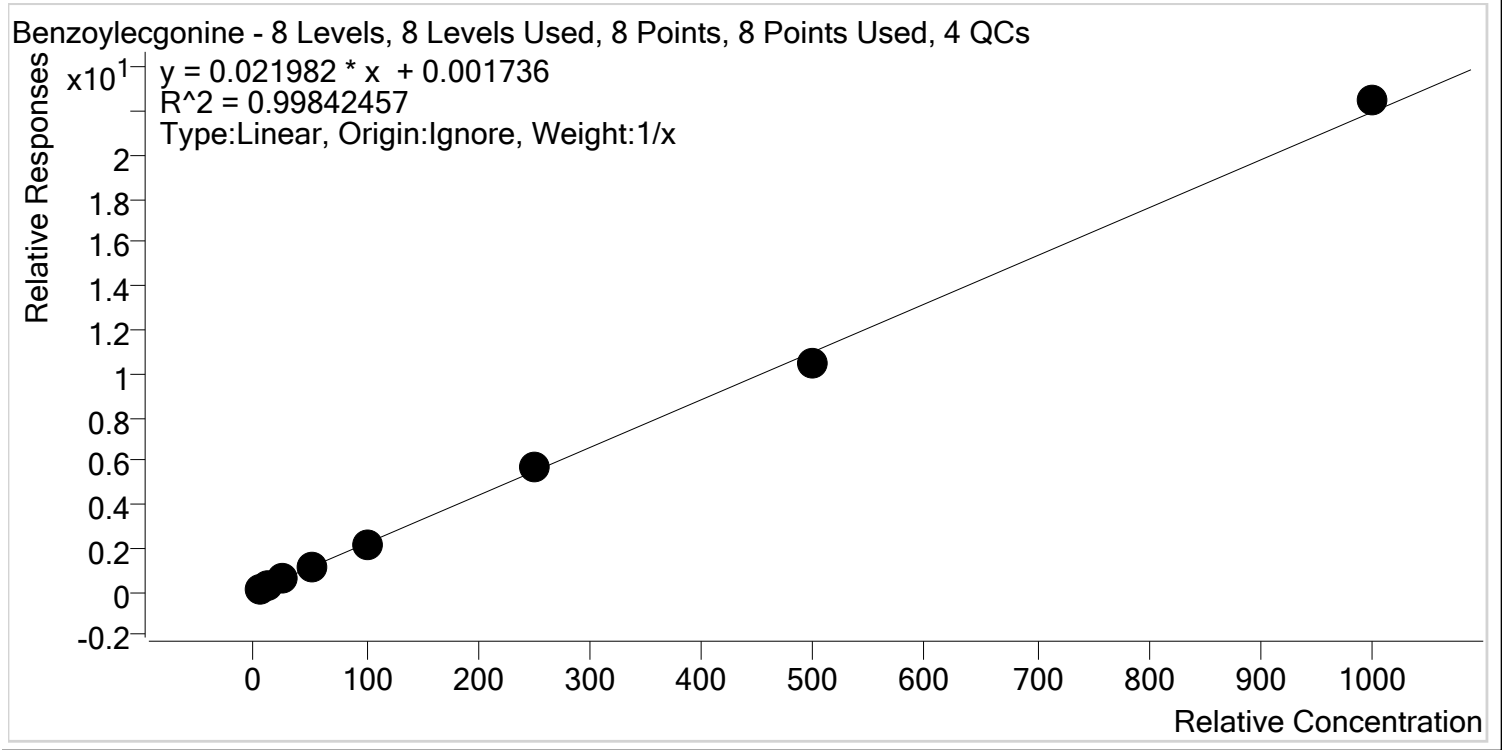


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	92.0
p1 Cal 2- 10ng	2	✓	10.0	11.0	110.5
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.4
p1 Cal 4-50ng	4	✓	50.0	55.8	111.7
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	255.0	102.0
p1 Cal 7-500ng	7	✓	500.0	459.4	91.9
p1 Cal 8-1000ng	8	✓	1000.0	834.4	83.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

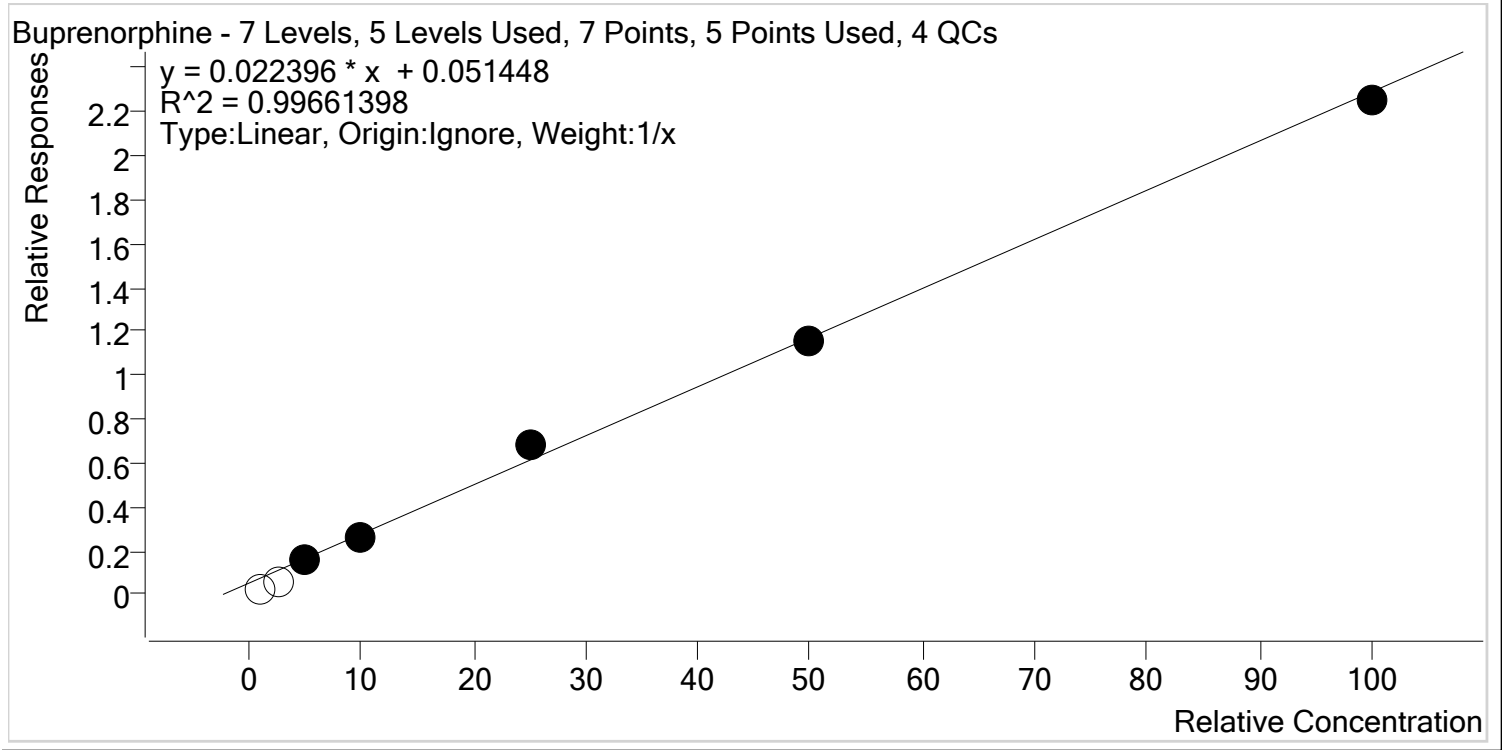


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.6
p1 Cal 4-50ng	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng	5	✓	100.0	94.8	94.8
p1 Cal 6-250ng	6	✓	250.0	259.7	103.9
p1 Cal 7-500ng	7	✓	500.0	472.8	94.6
p1 Cal 8-1000ng	8	✓	1000.0	1024.0	102.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	x	1.0	0.0	0.0
p1 Cal 3 -25ng	3	x	2.5	0.6	23.1
p1 Cal 4-50ng	4	✓	5.0	4.8	96.5
p1 Cal 5-100ng	5	✓	10.0	9.4	94.3
p1 Cal 6-250ng	6	✓	25.0	27.9	111.7
p1 Cal 7-500ng	7	✓	50.0	49.6	99.3
p1 Cal 8-1000ng	8	✓	100.0	98.2	98.2

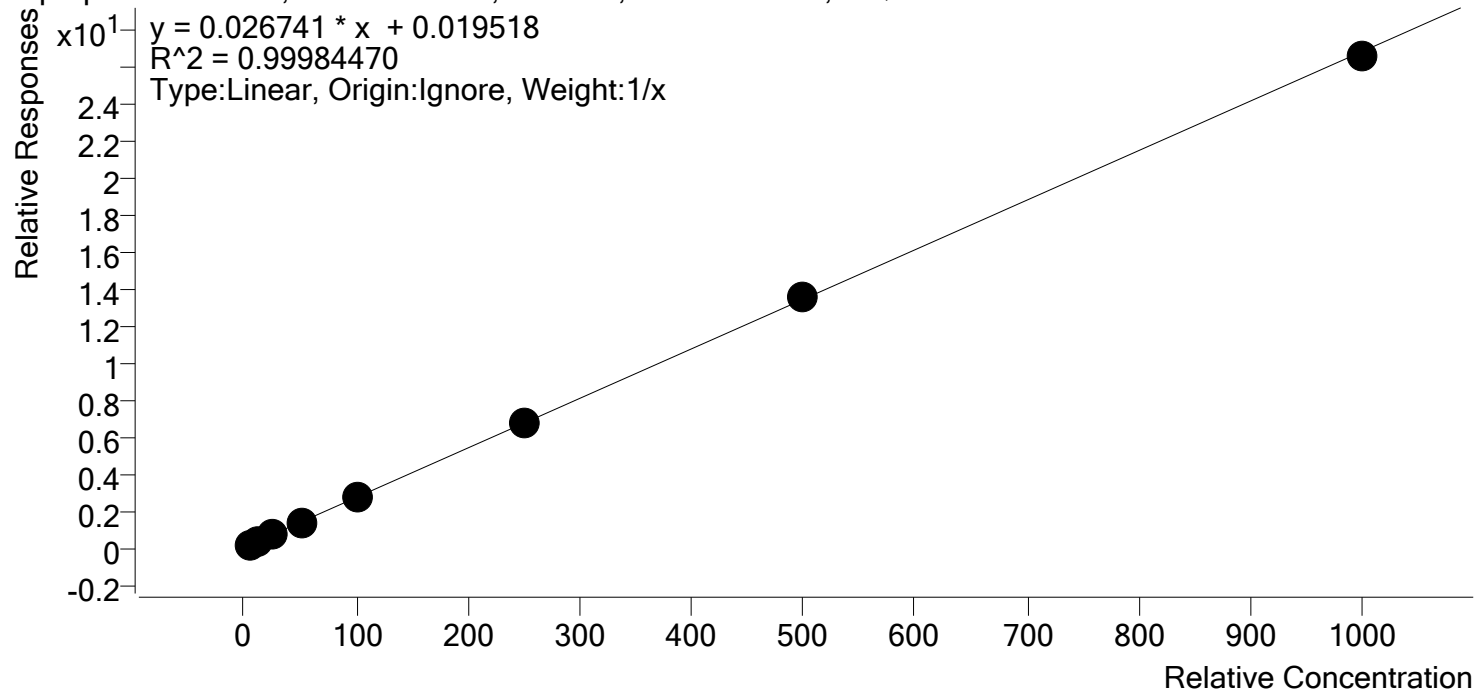
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

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

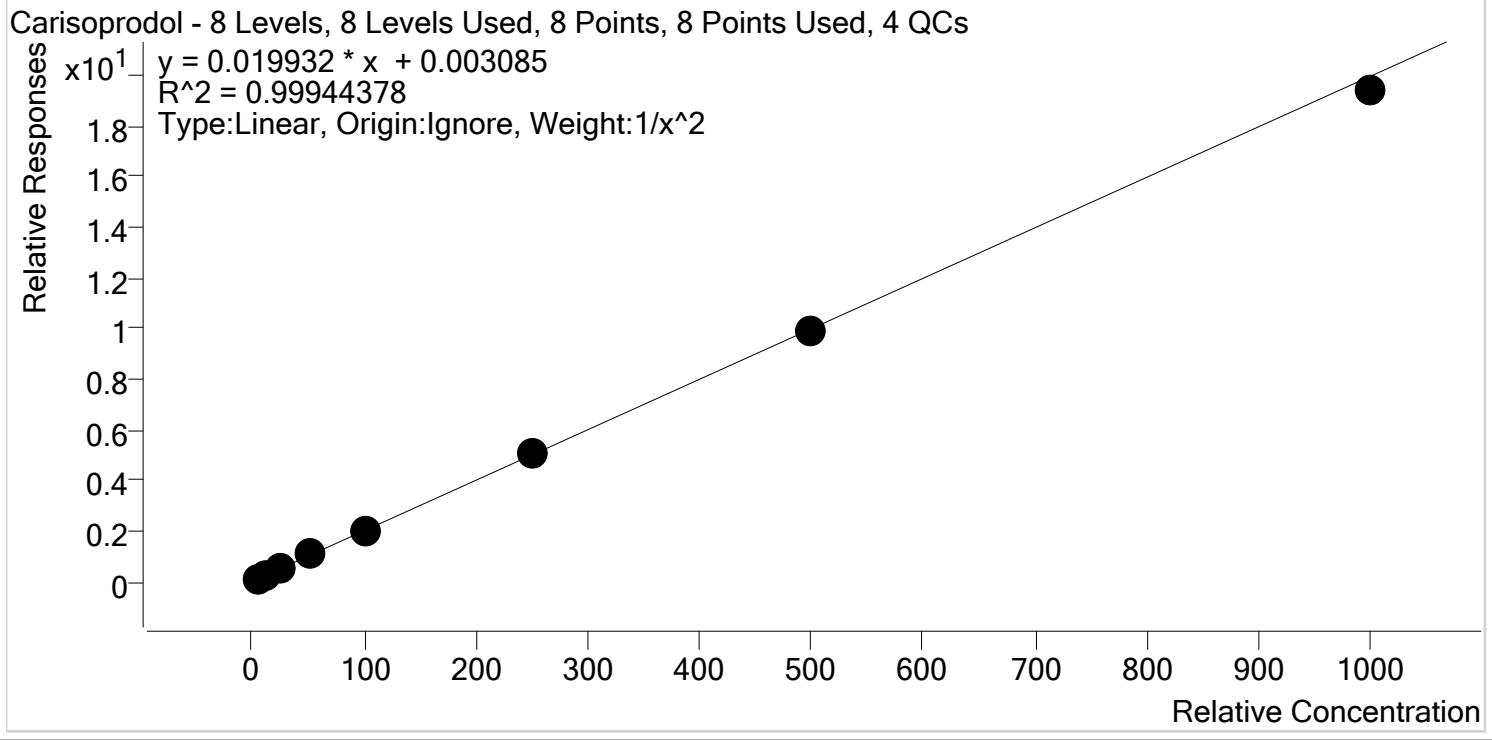


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.2
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	252.1	100.8
p1 Cal 7-500ng	7	✓	500.0	506.6	101.3
p1 Cal 8-1000ng	8	✓	1000.0	989.8	99.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	51.9	103.9
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	493.9	98.8
p1 Cal 8-1000ng	8	✓	1000.0	971.9	97.2

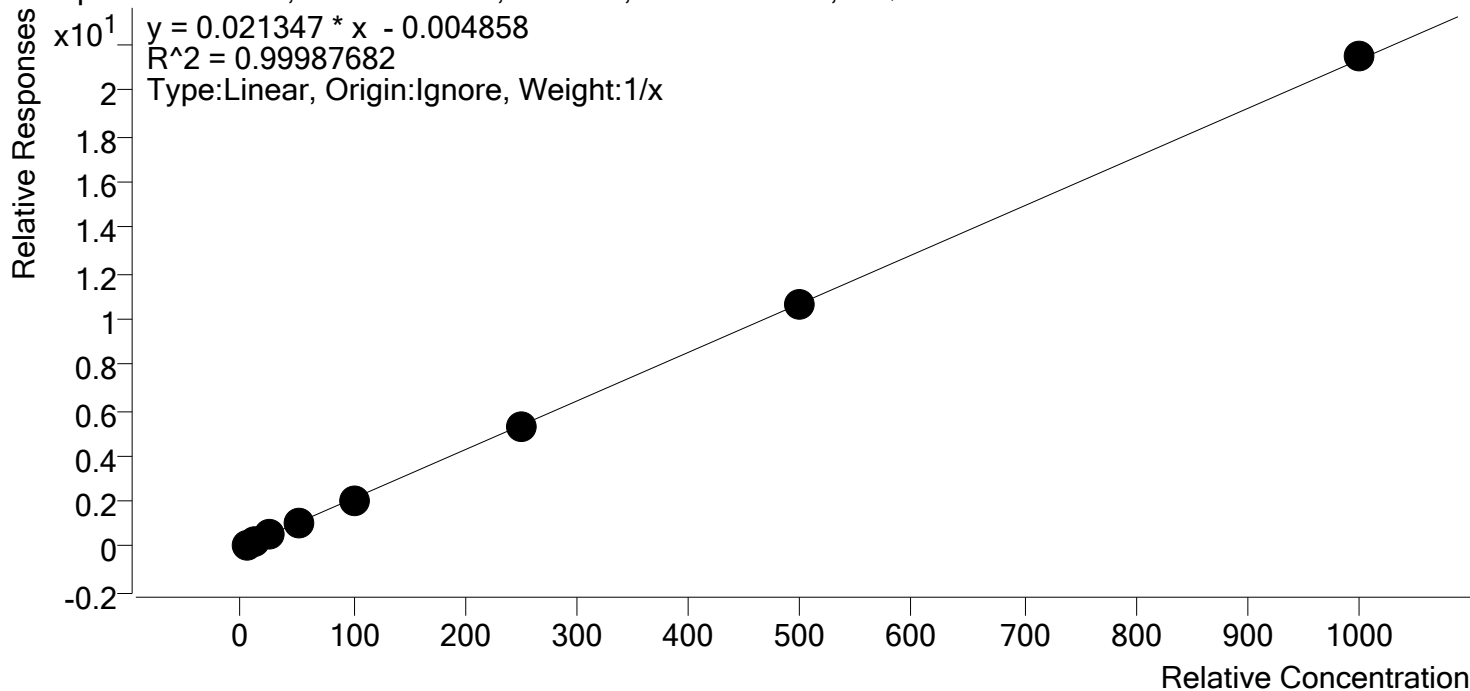
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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

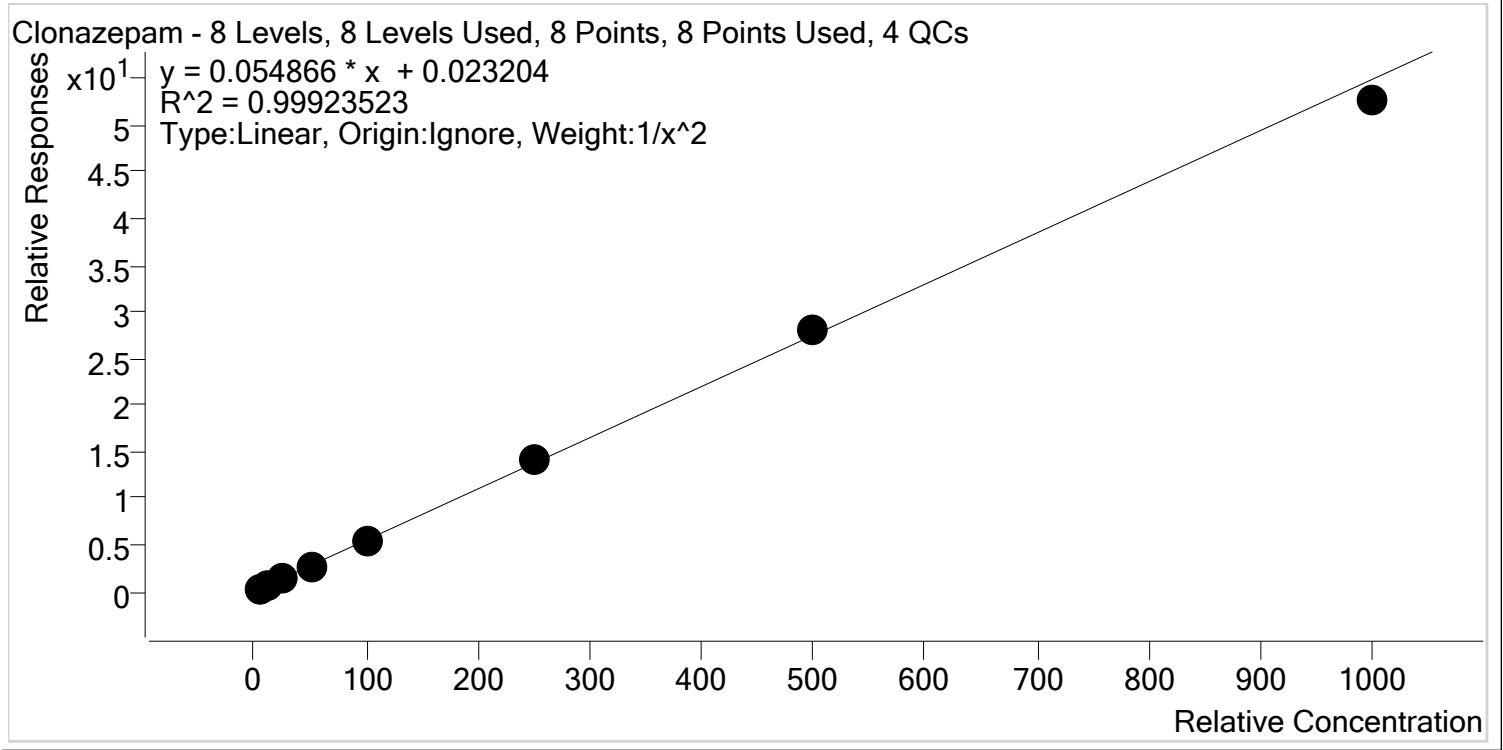


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	96.1	96.1
p1 Cal 6-250ng	6	✓	250.0	249.4	99.7
p1 Cal 7-500ng	7	✓	500.0	497.9	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1006.6	100.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

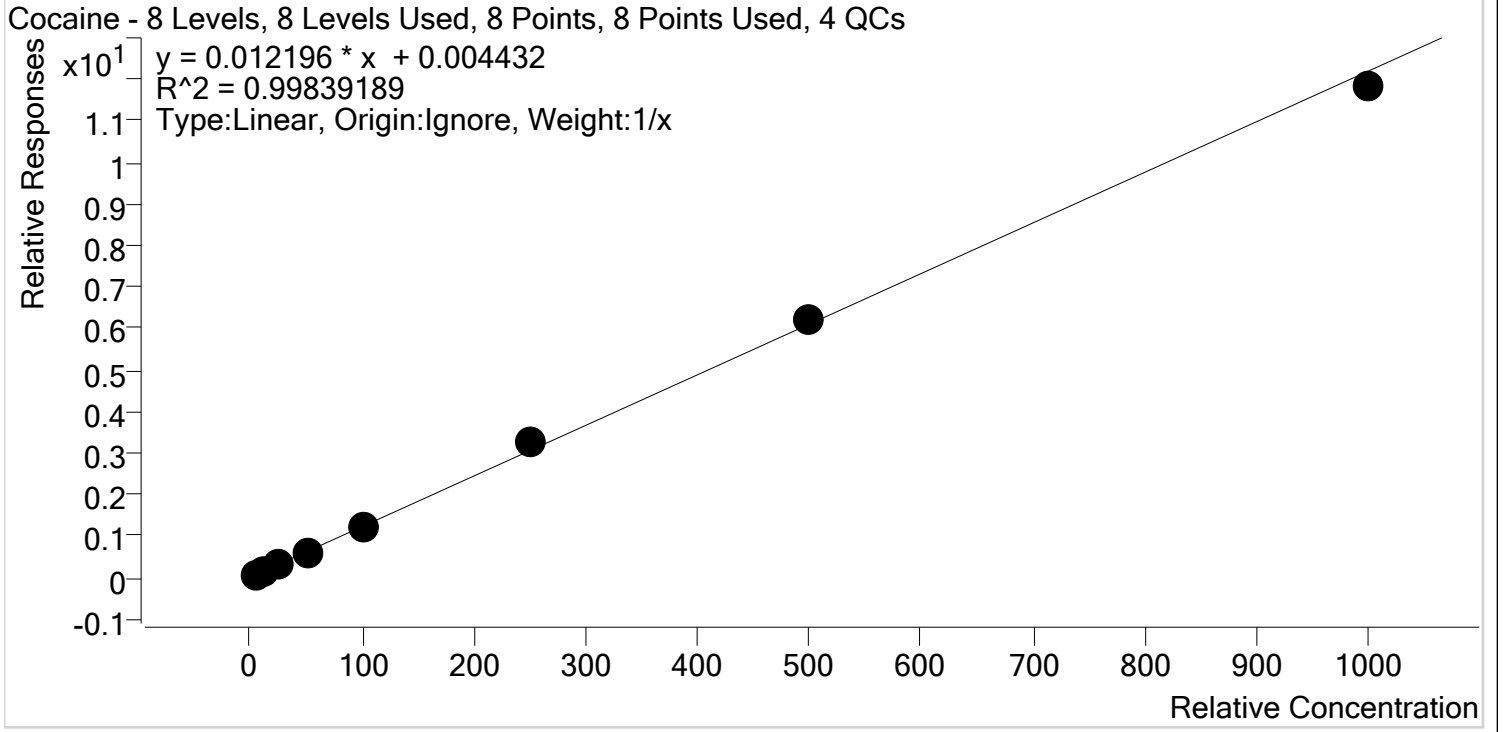


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.2
p1 Cal 4-50ng	4	✓	50.0	48.7	97.3
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	257.1	102.8
p1 Cal 7-500ng	7	✓	500.0	508.4	101.7
p1 Cal 8-1000ng	8	✓	1000.0	958.6	95.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

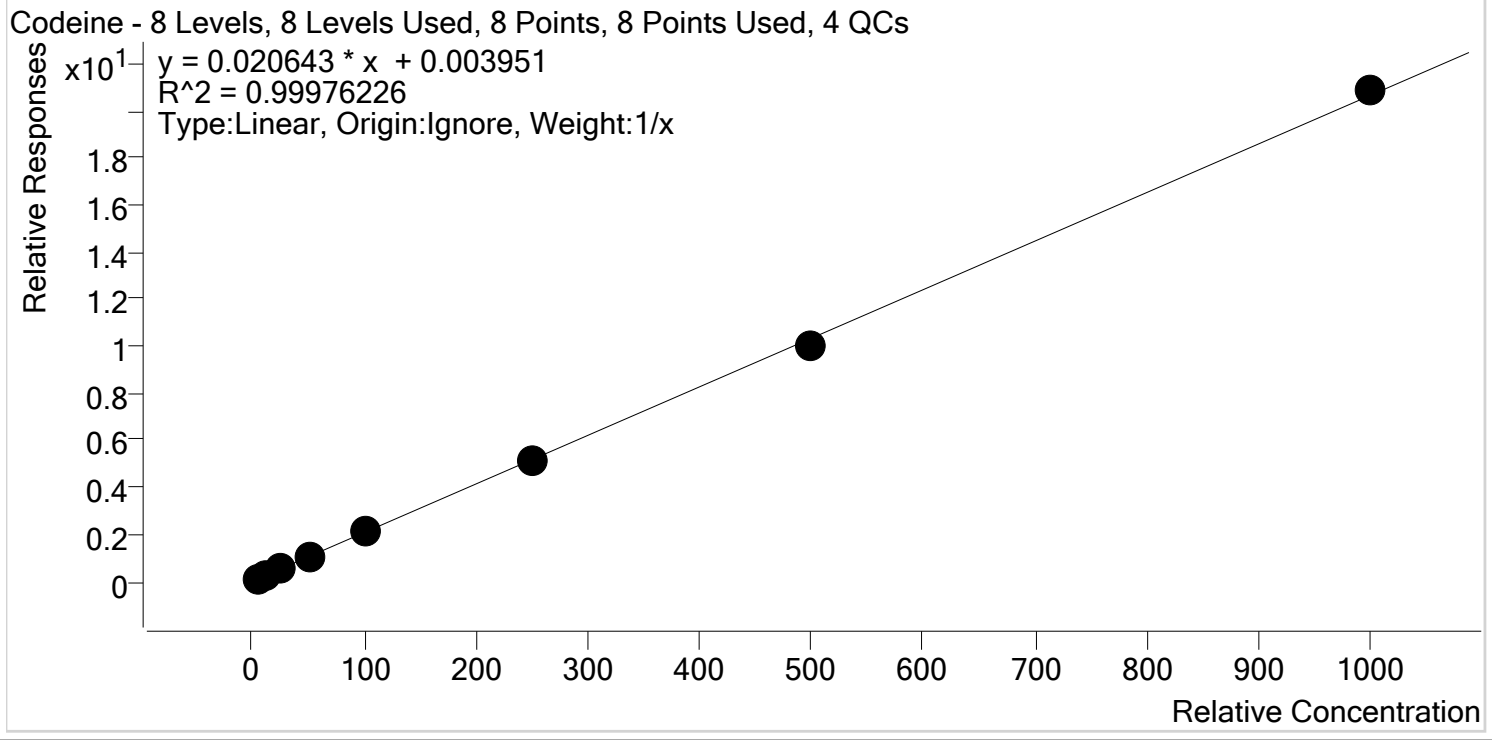


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	50.7	101.5
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	269.9	107.9
p1 Cal 7-500ng	7	✓	500.0	512.1	102.4
p1 Cal 8-1000ng	8	✓	1000.0	969.5	97.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6



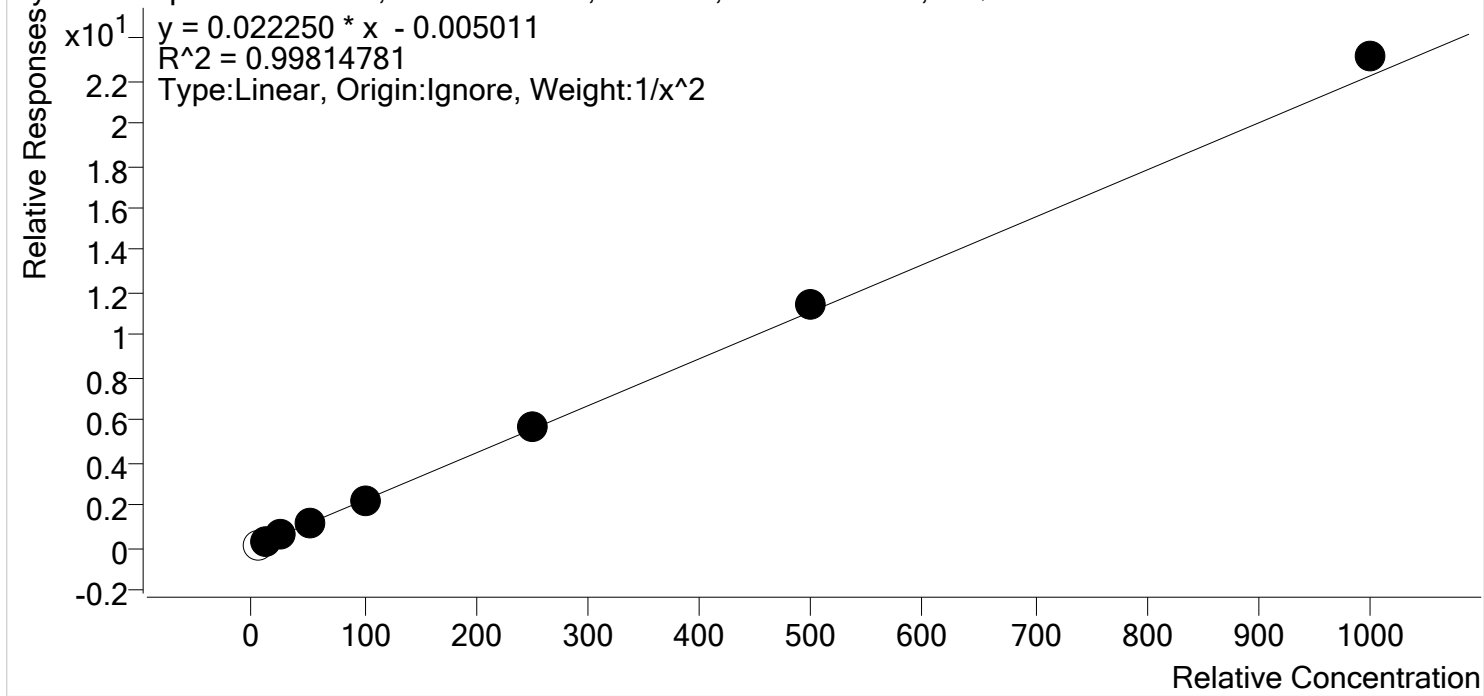
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	51.2	102.5
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	250.1	100.0
p1 Cal 7-500ng	7	✓	500.0	488.1	97.6
p1 Cal 8-1000ng	8	✓	1000.0	1010.0	101.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

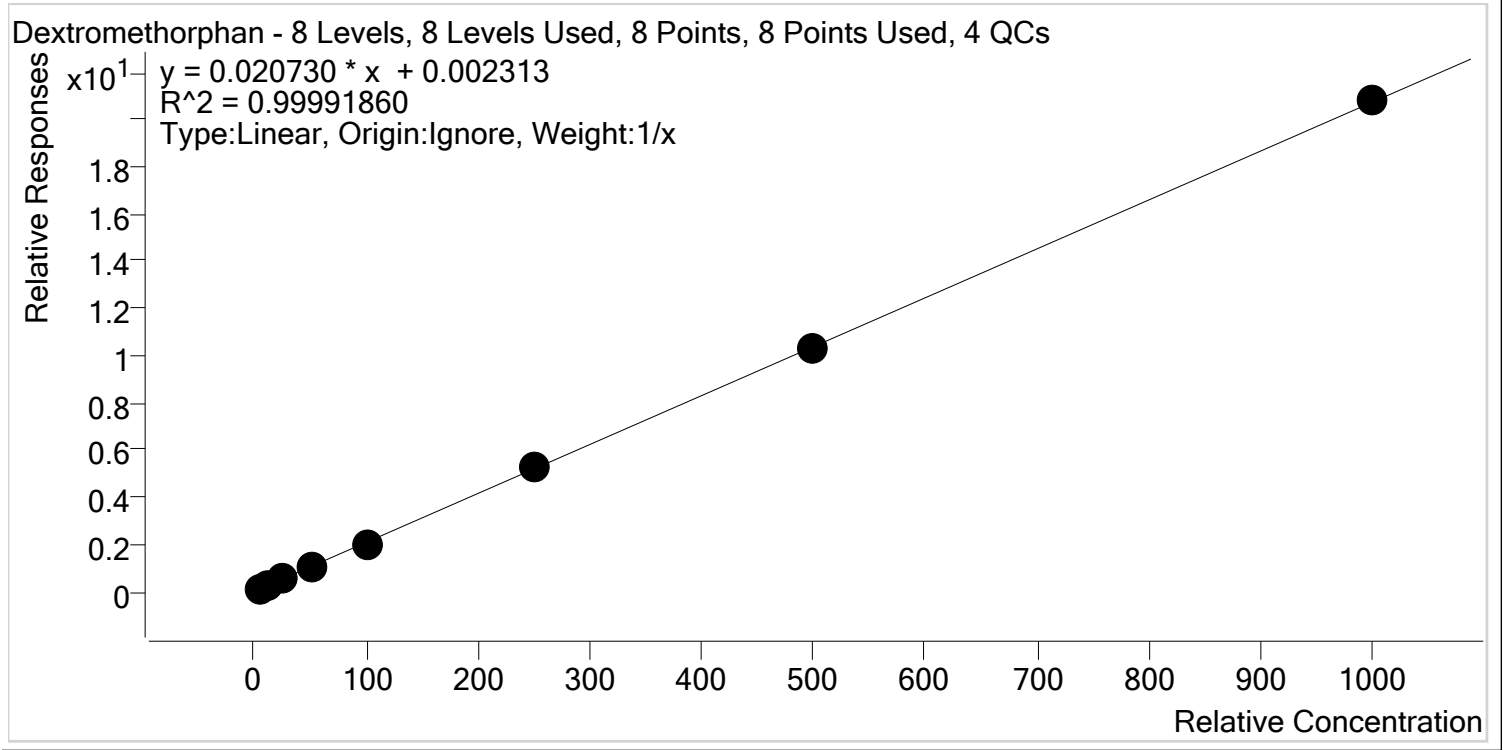


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	5.5	109.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.0
p1 Cal 4-50ng	4	✓	50.0	47.7	95.4
p1 Cal 5-100ng	5	✓	100.0	94.8	94.8
p1 Cal 6-250ng	6	✓	250.0	257.1	102.8
p1 Cal 7-500ng	7	✓	500.0	511.4	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1040.8	104.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

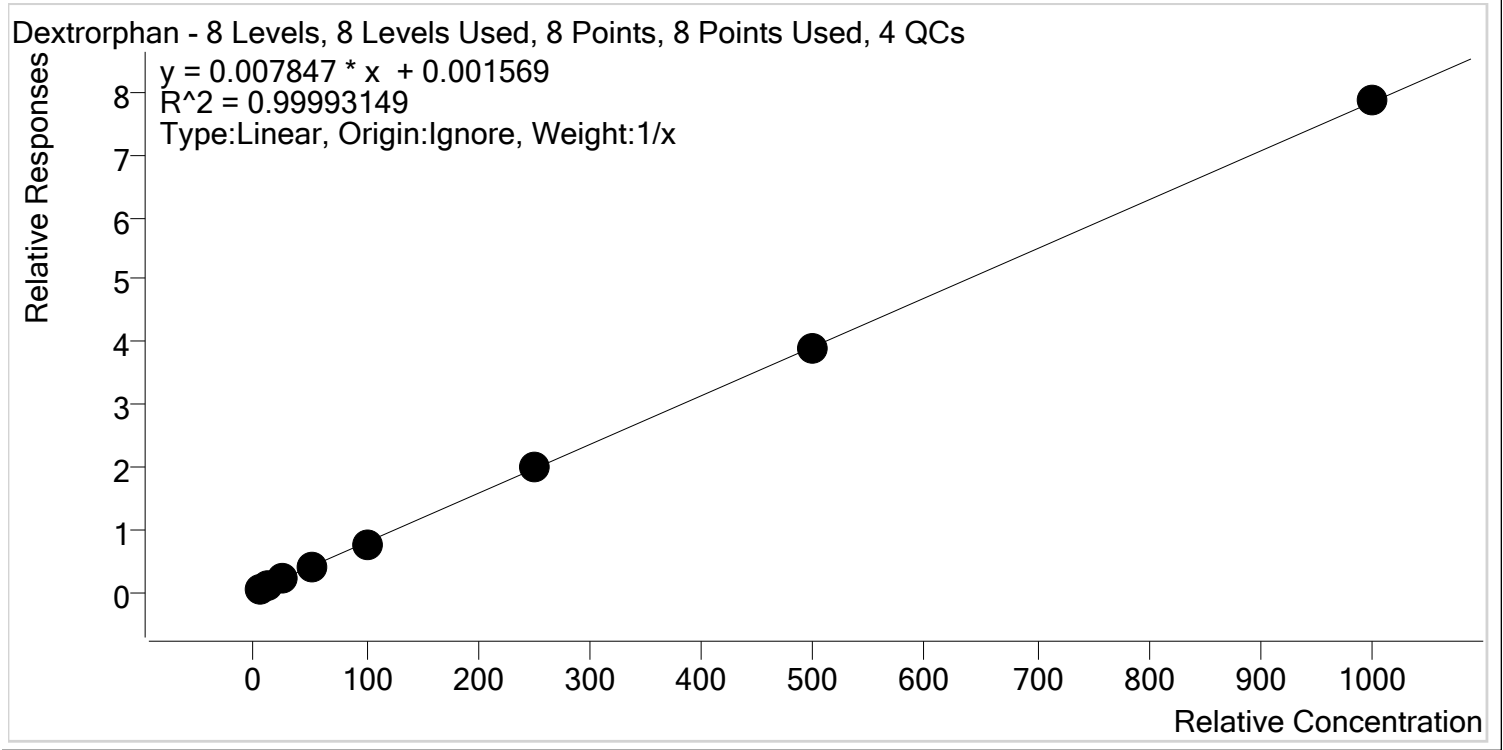


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.6
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
p1 Cal 4-50ng	4	✓	50.0	49.7	99.3
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	497.0	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1003.4	100.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

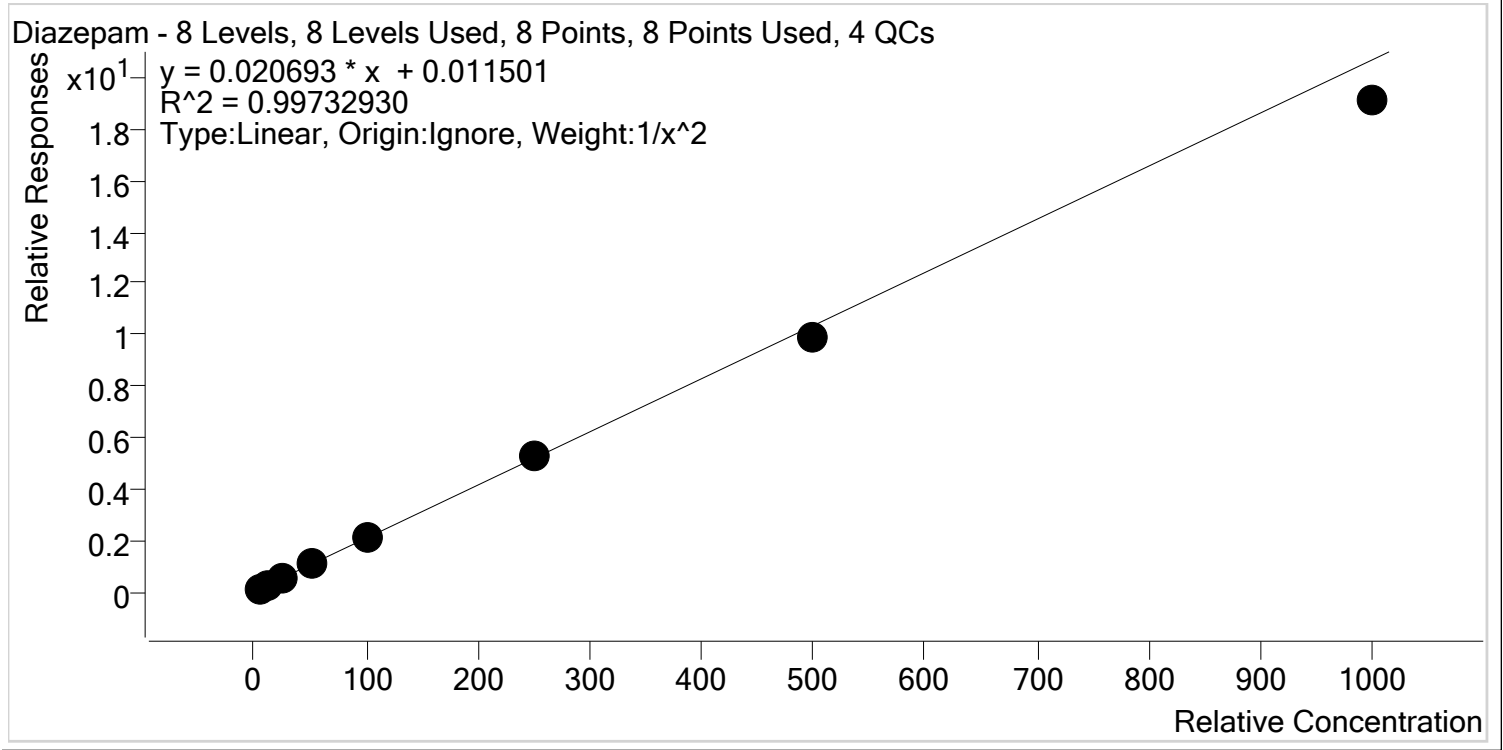


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	250.4	100.2
p1 Cal 7-500ng	7	✓	500.0	498.6	99.7
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\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5



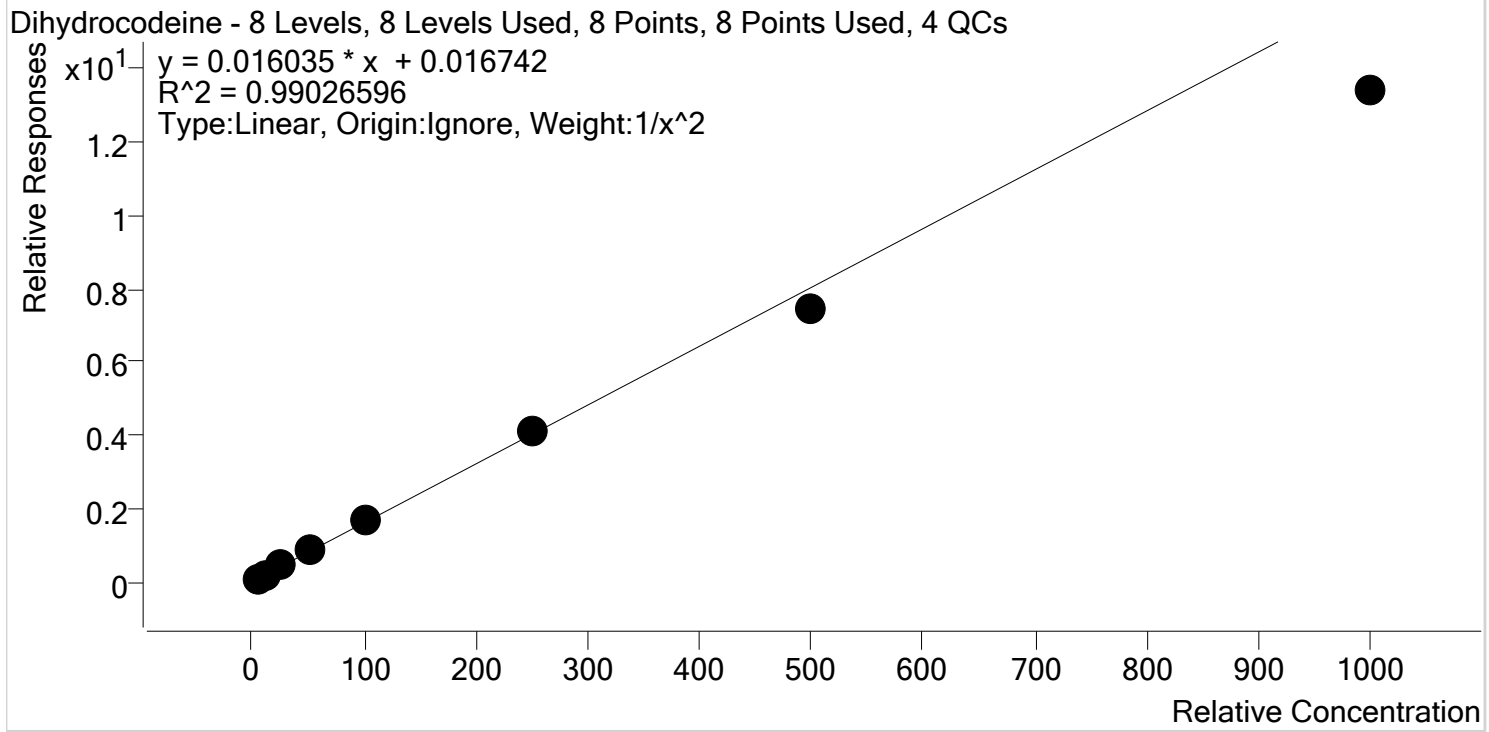
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	52.9	105.7
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	257.6	103.0
p1 Cal 7-500ng	7	✓	500.0	476.9	95.4
p1 Cal 8-1000ng	8	✓	1000.0	923.4	92.3

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



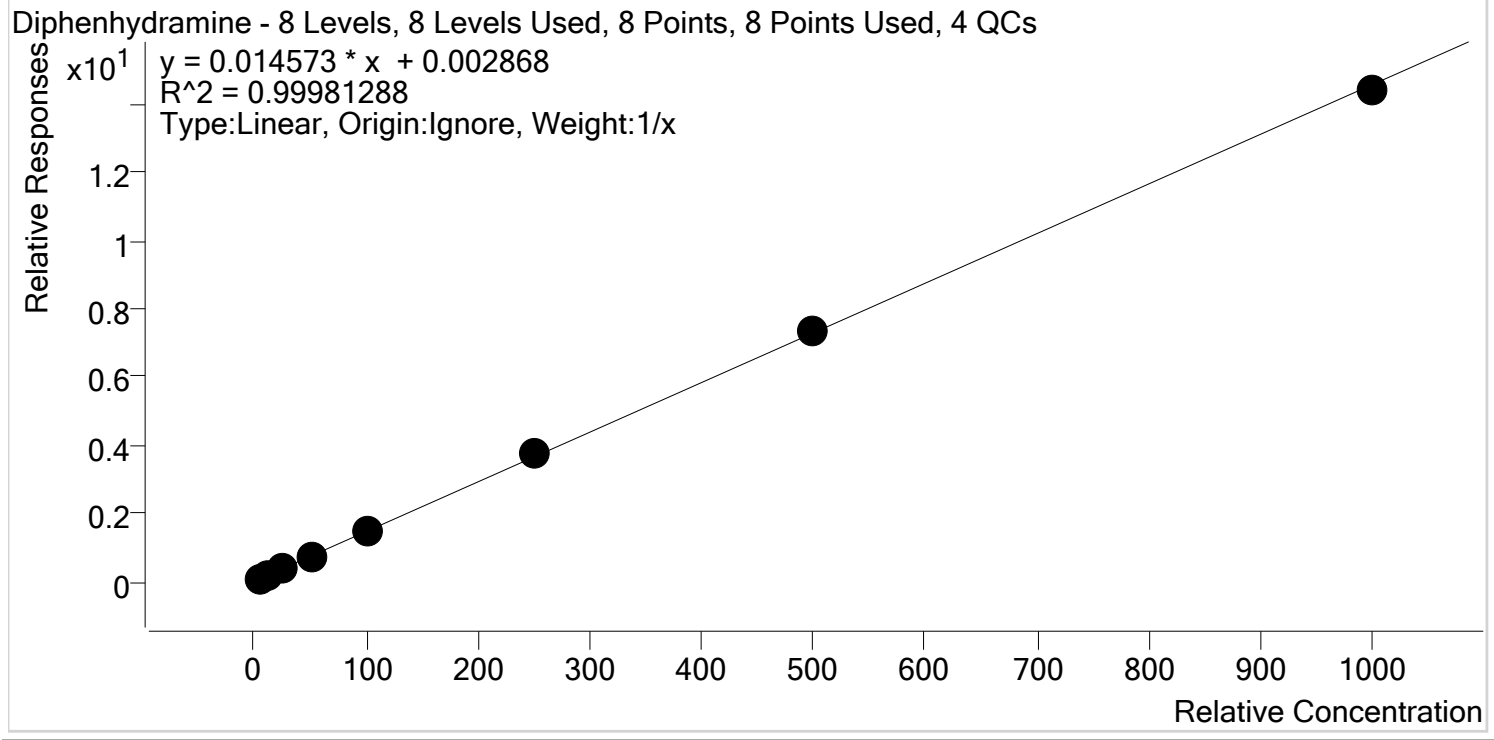
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.0
p1 Cal 4-50ng	4	✓	50.0	54.5	109.0
p1 Cal 5-100ng	5	✓	100.0	105.5	105.5
p1 Cal 6-250ng	6	✓	250.0	257.5	103.0
p1 Cal 7-500ng	7	✓	500.0	464.8	93.0
p1 Cal 8-1000ng	8	✓	1000.0	834.6	83.5

S



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.2
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	51.1	102.3
p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng	6	✓	250.0	253.9	101.6
p1 Cal 7-500ng	7	✓	500.0	506.8	101.4
p1 Cal 8-1000ng	8	✓	1000.0	988.1	98.8

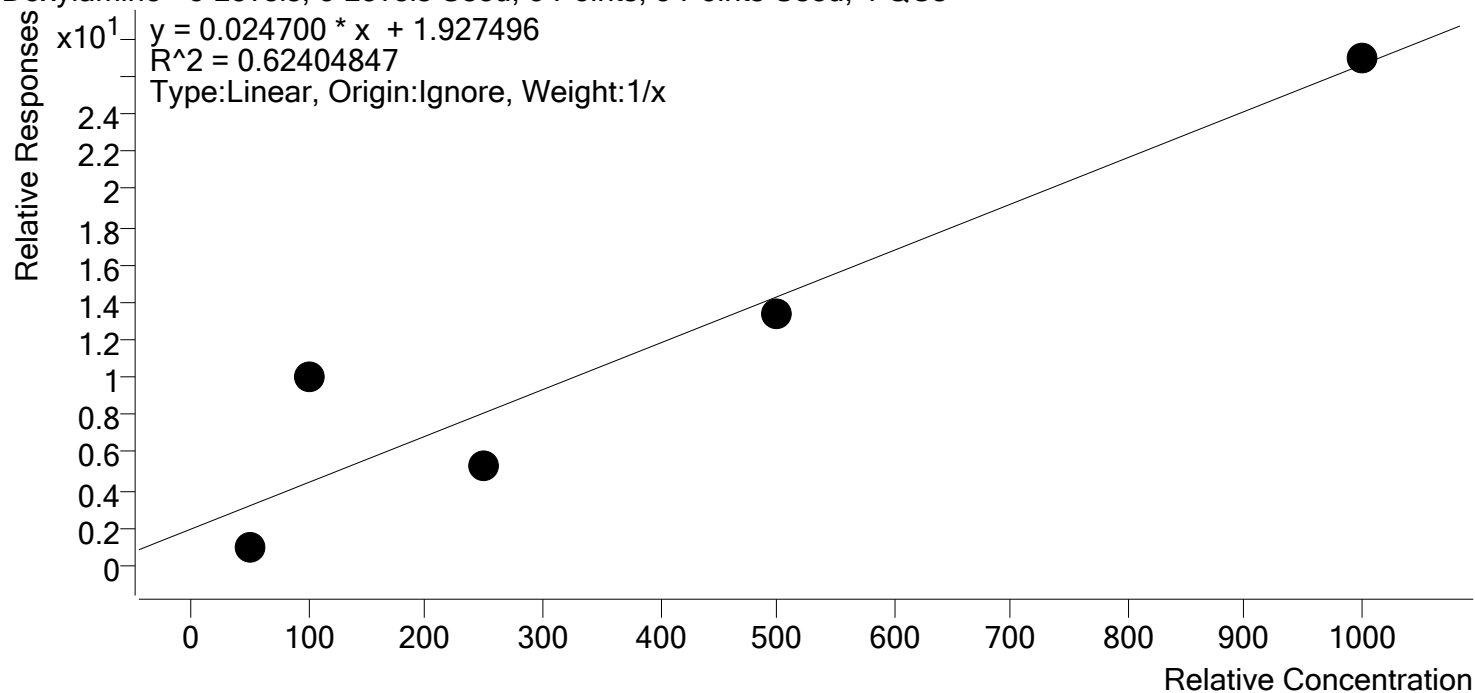
S



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

Doxylamine - 5 Levels, 5 Levels Used, 5 Points, 5 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 4-50ng	4	✓	50.0	0.0	0.0
p1 Cal 5-100ng	5	✓	100.0	329.2	329.2
p1 Cal 6-250ng	6	✓	250.0	135.5	54.2
p1 Cal 7-500ng	7	✓	500.0	460.4	92.1
p1 Cal 8-1000ng	8	✓	1000.0	1013.3	101.3

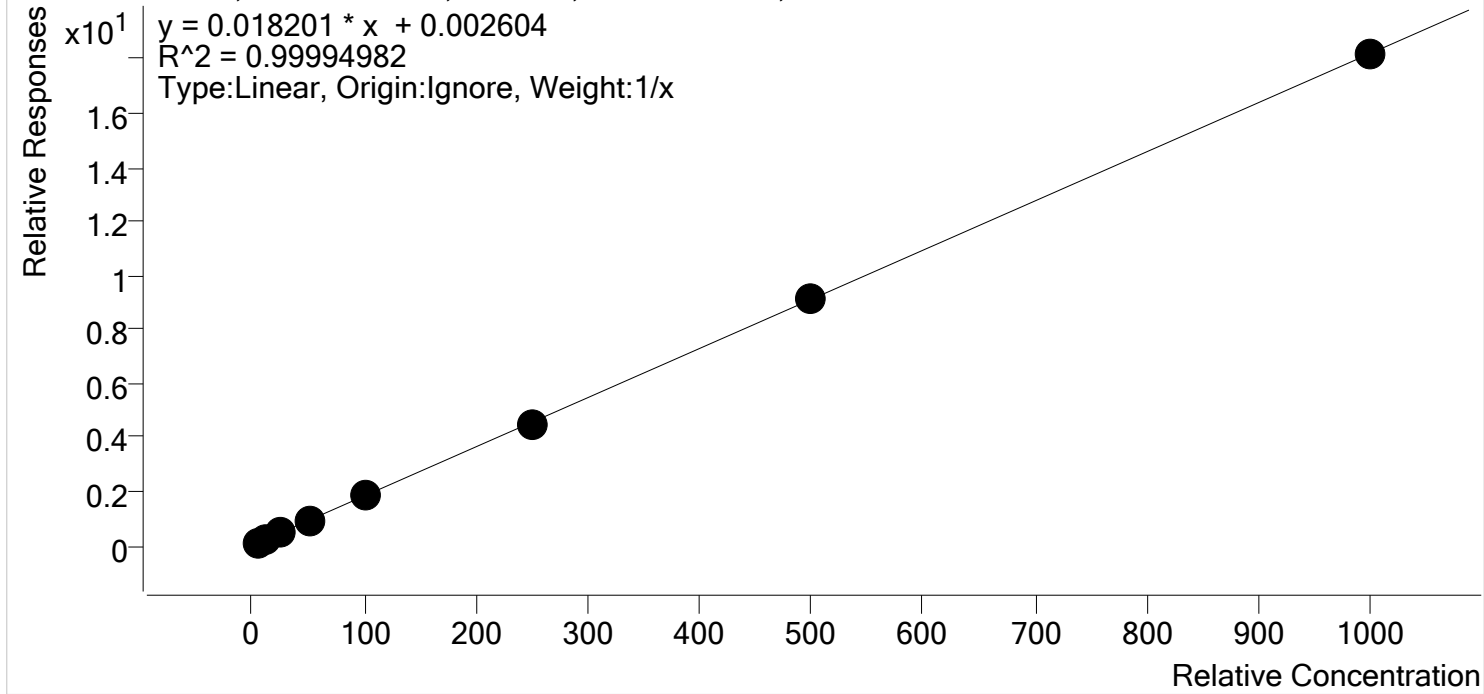
Did not evaluate.



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

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



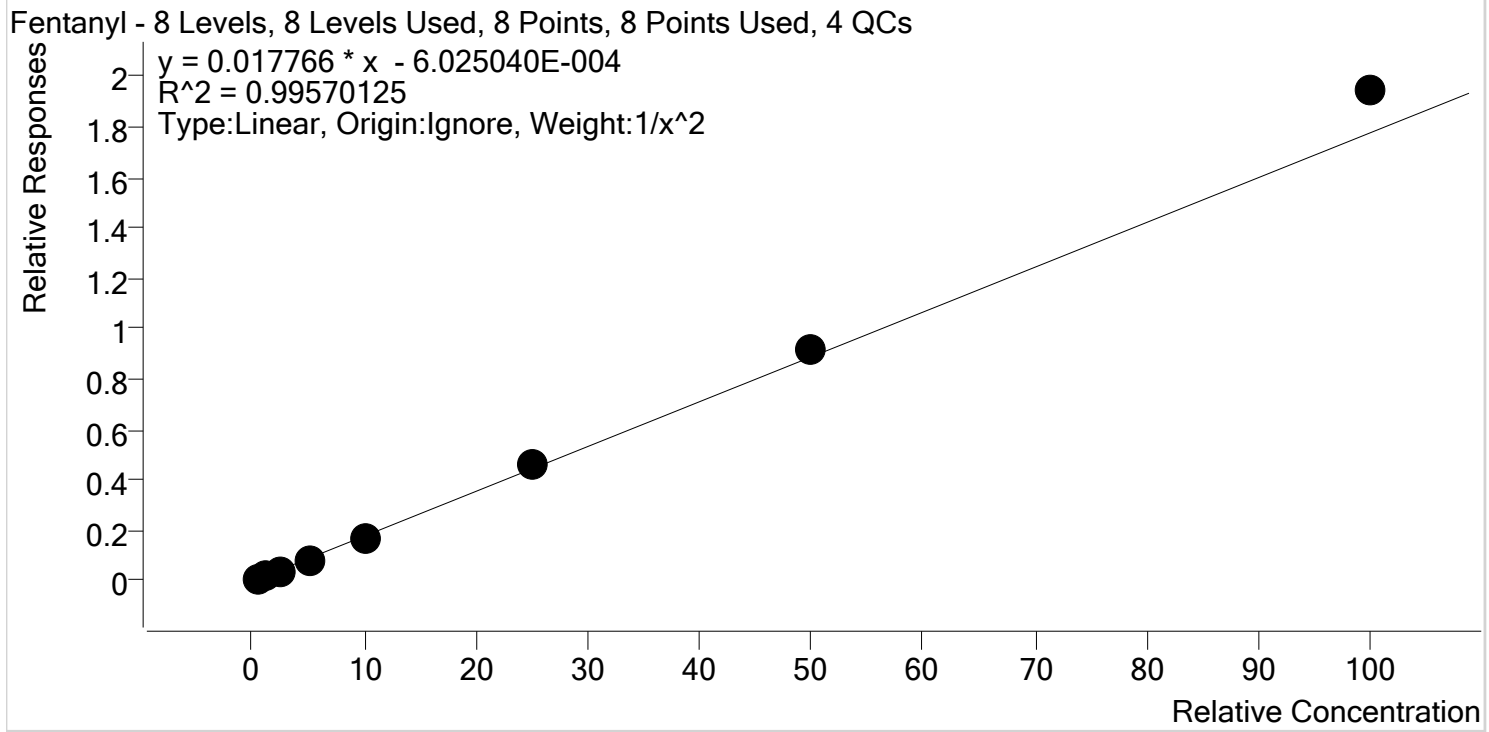
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	50.5	101.1
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	248.4	99.3
p1 Cal 7-500ng	7	✓	500.0	504.7	100.9
p1 Cal 8-1000ng	8	✓	1000.0	997.8	99.8

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5



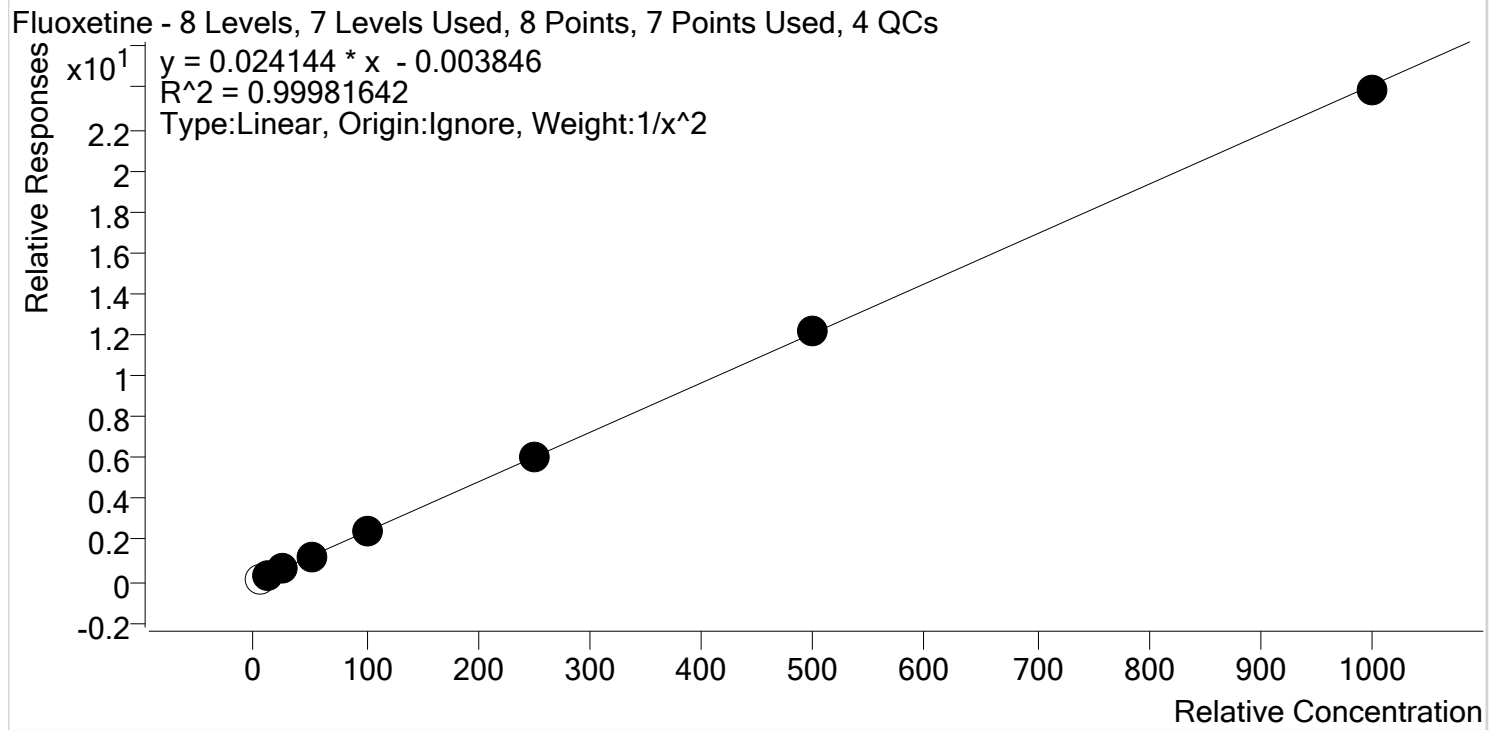
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.4
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.2
p1 Cal 3 -25ng	3	✓	2.5	2.3	93.0
p1 Cal 4-50ng	4	✓	5.0	4.8	96.4
p1 Cal 5-100ng	5	✓	10.0	9.3	92.5
p1 Cal 6-250ng	6	✓	25.0	25.7	102.8
p1 Cal 7-500ng	7	✓	50.0	51.6	103.2
p1 Cal 8-1000ng	8	✓	100.0	109.4	109.4

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

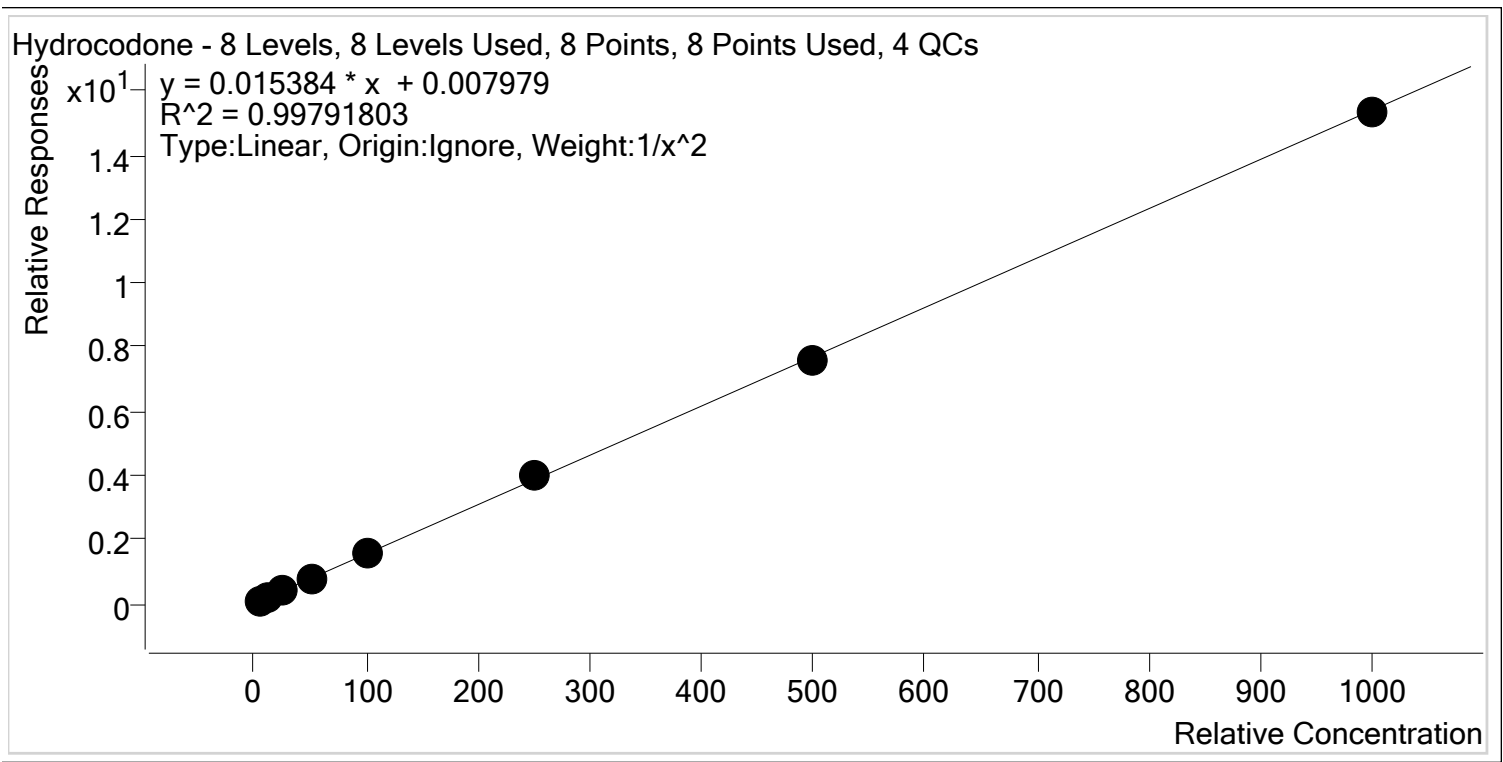


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	5.1	102.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.2
p1 Cal 4-50ng	4	✓	50.0	50.0	100.1
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng	7	✓	500.0	507.9	101.6
p1 Cal 8-1000ng	8	✓	1000.0	989.1	98.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

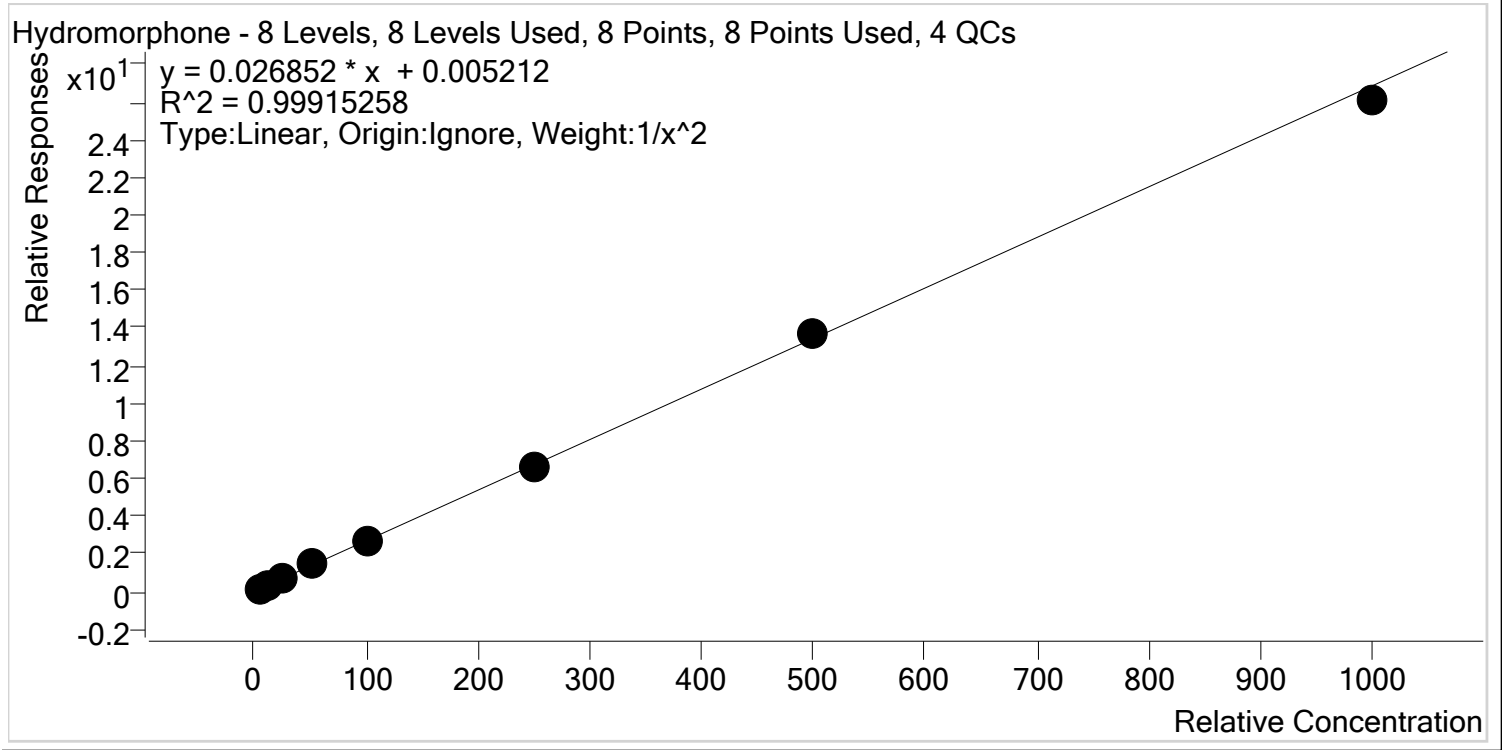


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.1
p1 Cal 2- 10ng	2	✓	10.0	9.2	91.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	50.5	101.1
p1 Cal 5-100ng	5	✓	100.0	102.1	102.1
p1 Cal 6-250ng	6	✓	250.0	259.7	103.9
p1 Cal 7-500ng	7	✓	500.0	492.7	98.5
p1 Cal 8-1000ng	8	✓	1000.0	995.0	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

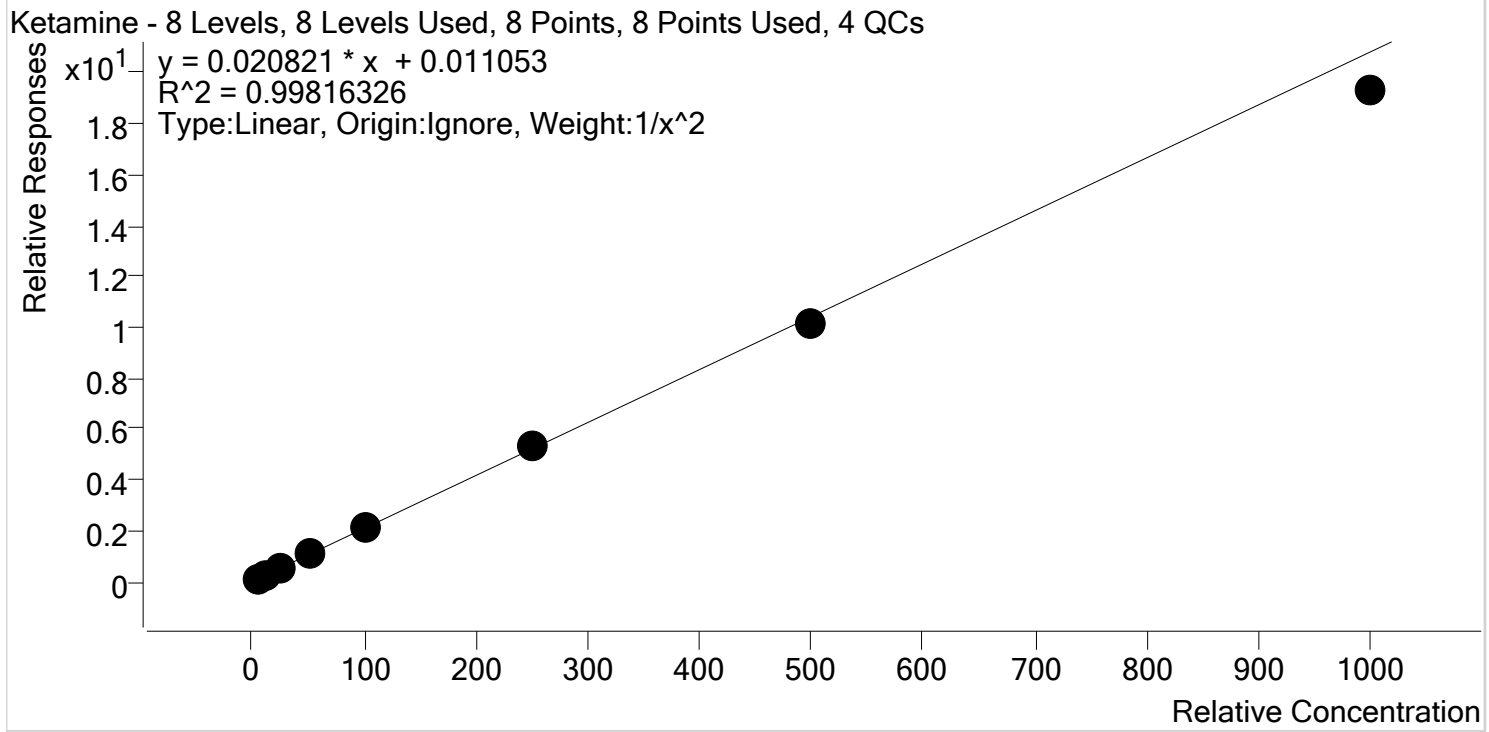


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	51.9	103.9
p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng	6	✓	250.0	247.1	98.8
p1 Cal 7-500ng	7	✓	500.0	513.3	102.7
p1 Cal 8-1000ng	8	✓	1000.0	970.8	97.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.8
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.6
p1 Cal 4-50ng	4	✓	50.0	52.1	104.1
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	254.0	101.6
p1 Cal 7-500ng	7	✓	500.0	485.4	97.1
p1 Cal 8-1000ng	8	✓	1000.0	927.1	92.7

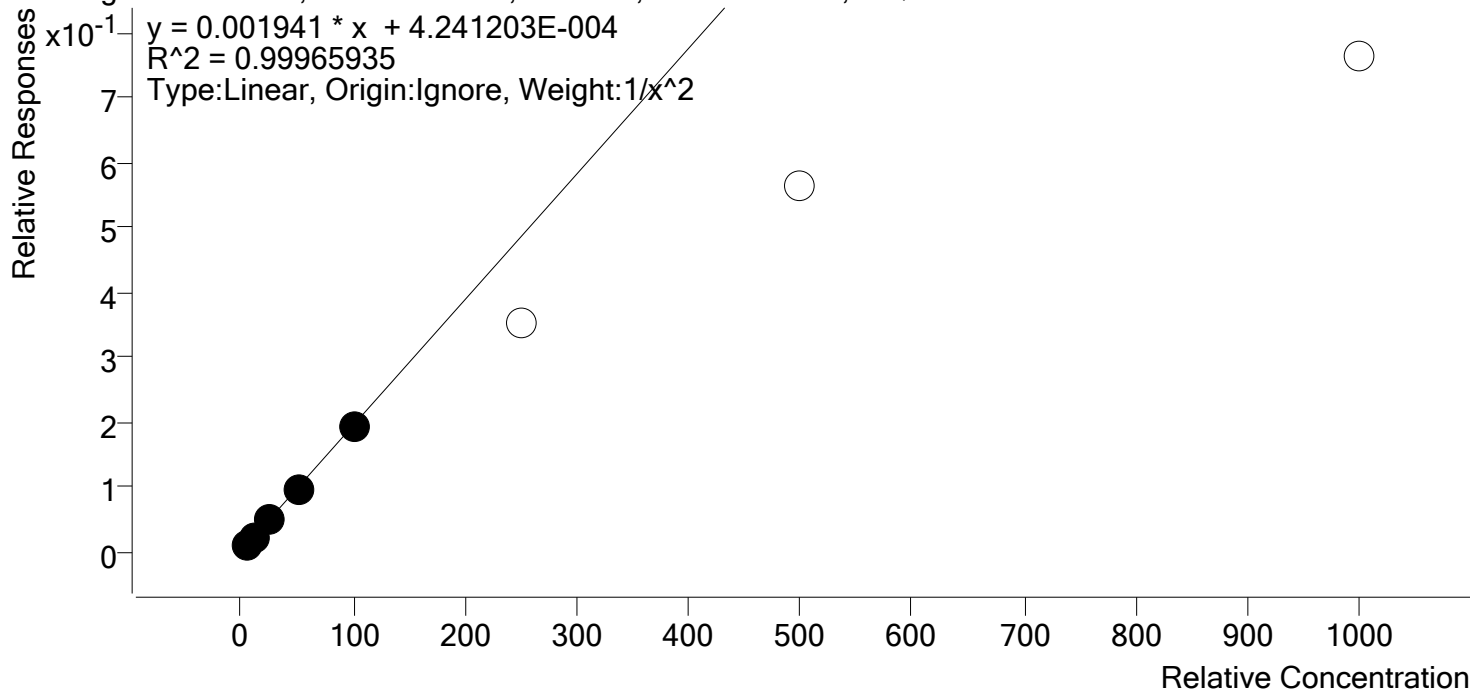
\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

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

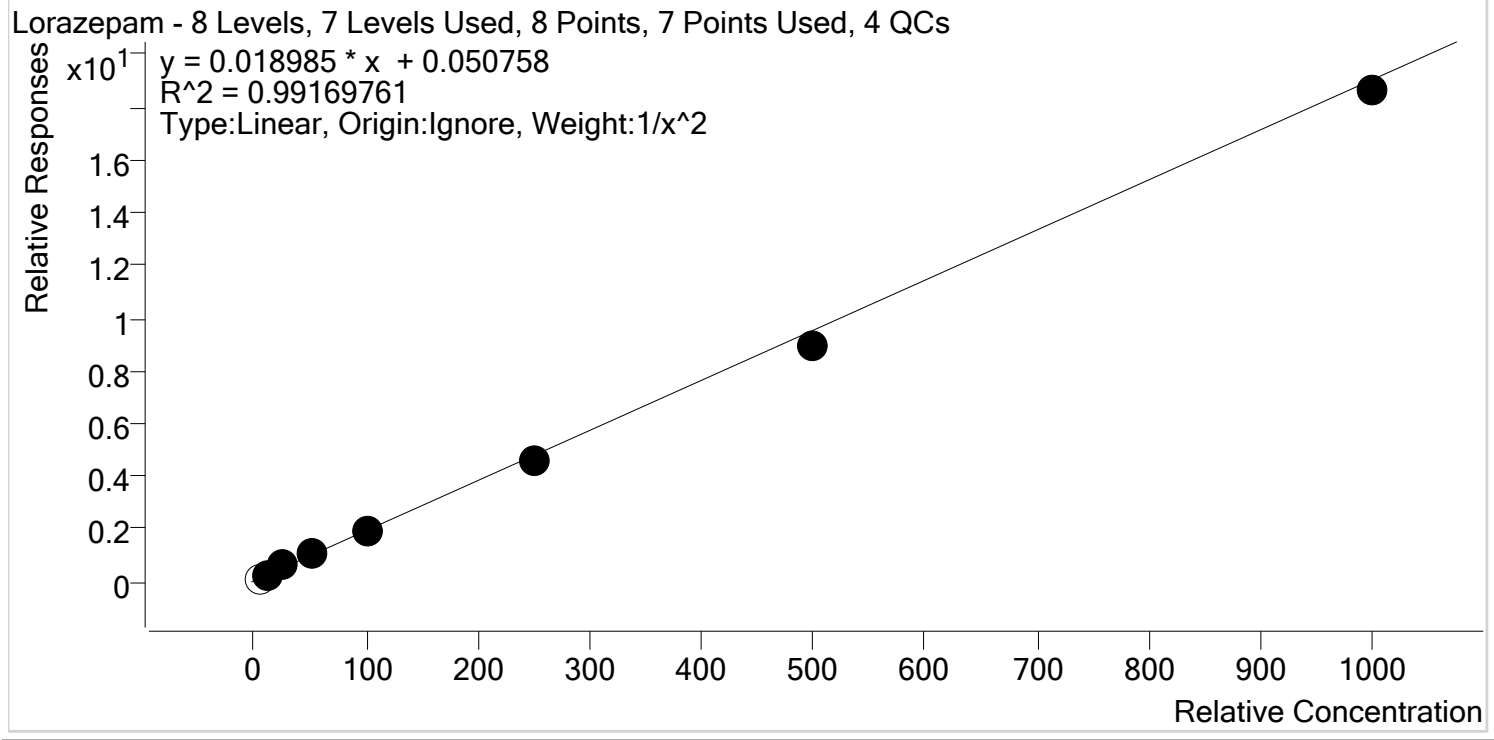


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.0
p1 Cal 4-50ng	4	✓	50.0	49.9	99.7
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✗	250.0	181.7	72.7
p1 Cal 7-500ng	7	✗	500.0	291.0	58.2
p1 Cal 8-1000ng	8	✗	1000.0	393.5	39.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4



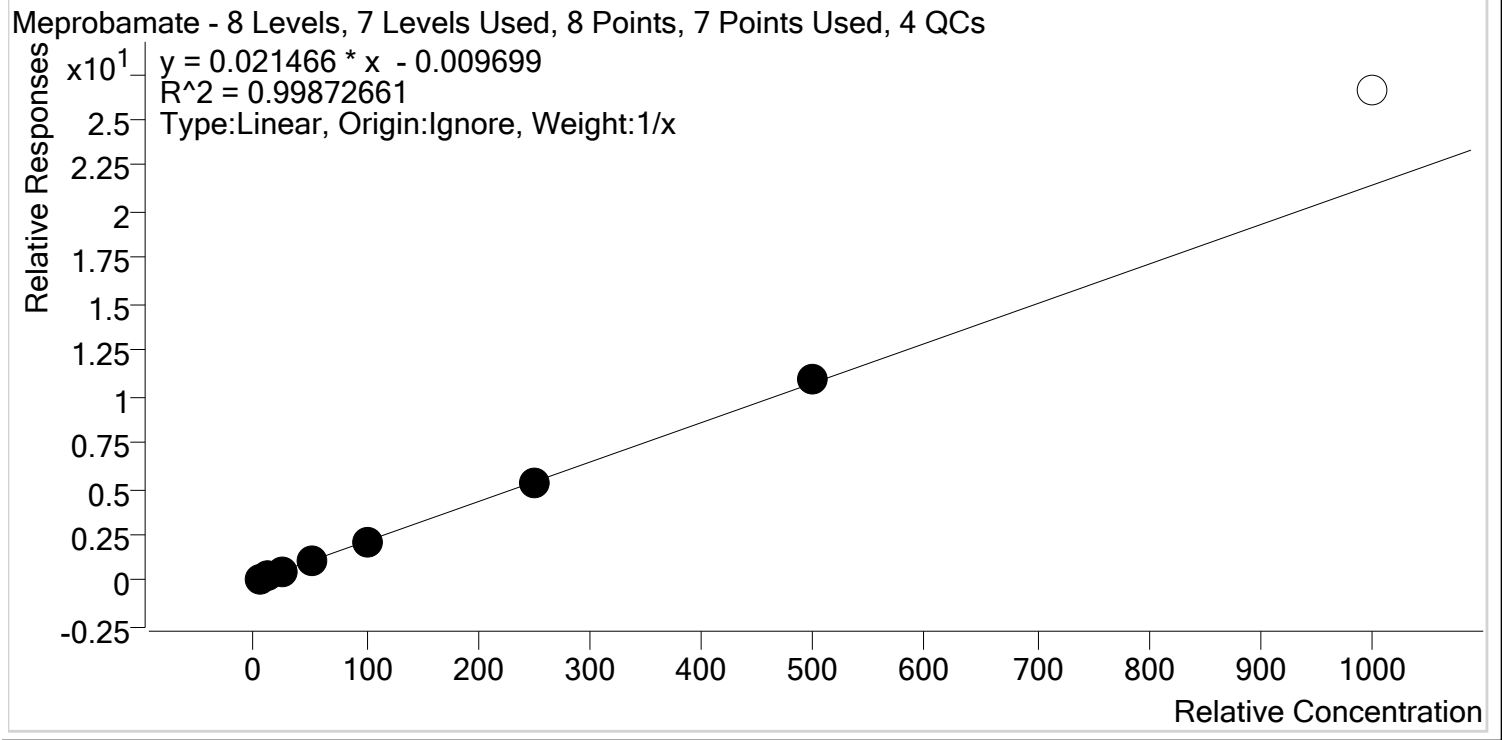
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	5.0	3.9	78.5
p1 Cal 2- 10ng	2	✓	10.0	9.3	93.3
p1 Cal 3 -25ng	3	✓	25.0	28.6	114.6
p1 Cal 4-50ng	4	✓	50.0	53.1	106.3
p1 Cal 5-100ng	5	✓	100.0	99.4	99.4
p1 Cal 6-250ng	6	✓	250.0	238.1	95.2
p1 Cal 7-500ng	7	✓	500.0	466.6	93.3
p1 Cal 8-1000ng	8	✓	1000.0	978.4	97.8

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

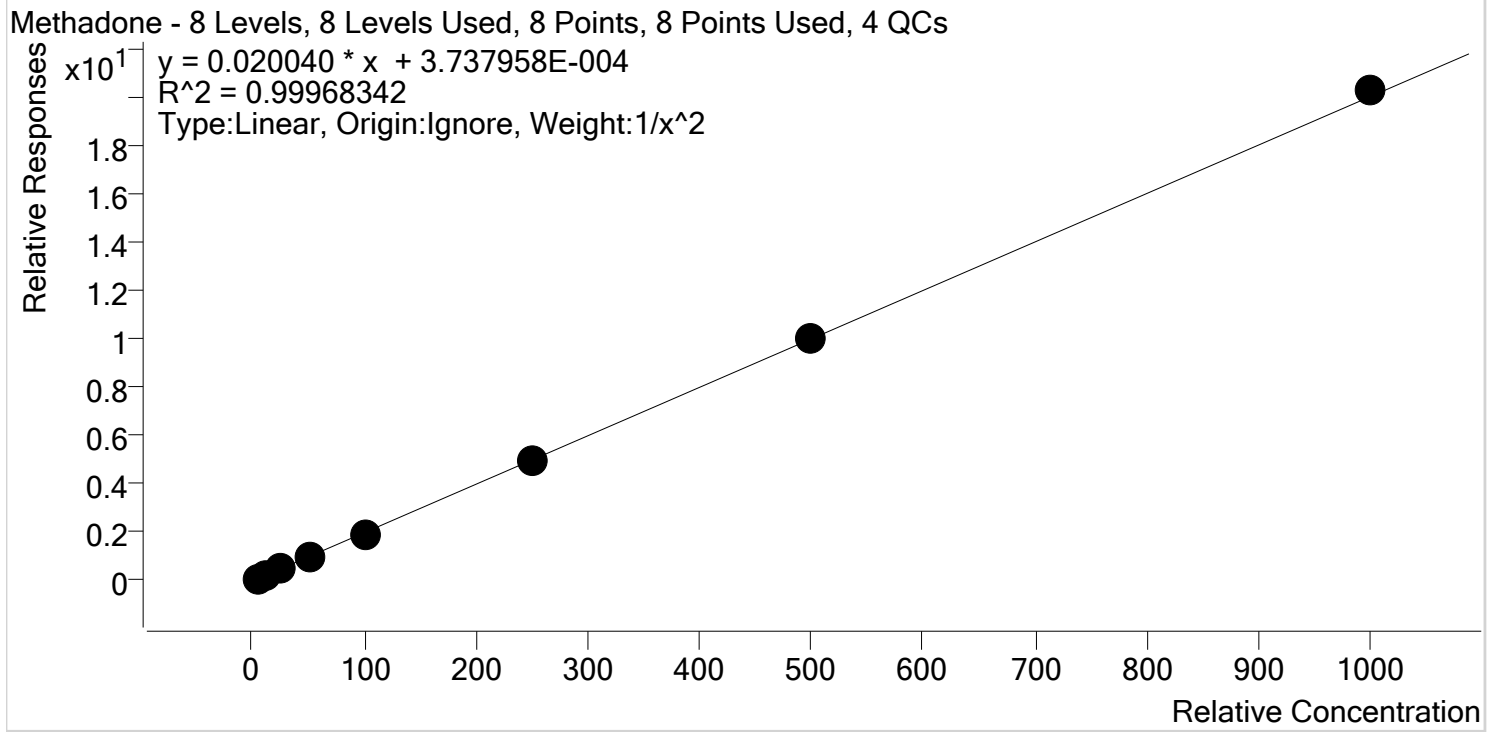


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.1
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.6
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.7
p1 Cal 4-50ng	4	✓	50.0	48.8	97.7
p1 Cal 5-100ng	5	✓	100.0	93.2	93.2
p1 Cal 6-250ng	6	✓	250.0	245.1	98.0
p1 Cal 7-500ng	7	✓	500.0	513.1	102.6
p1 Cal 8-1000ng	8	x	1000.0	1238.8	123.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



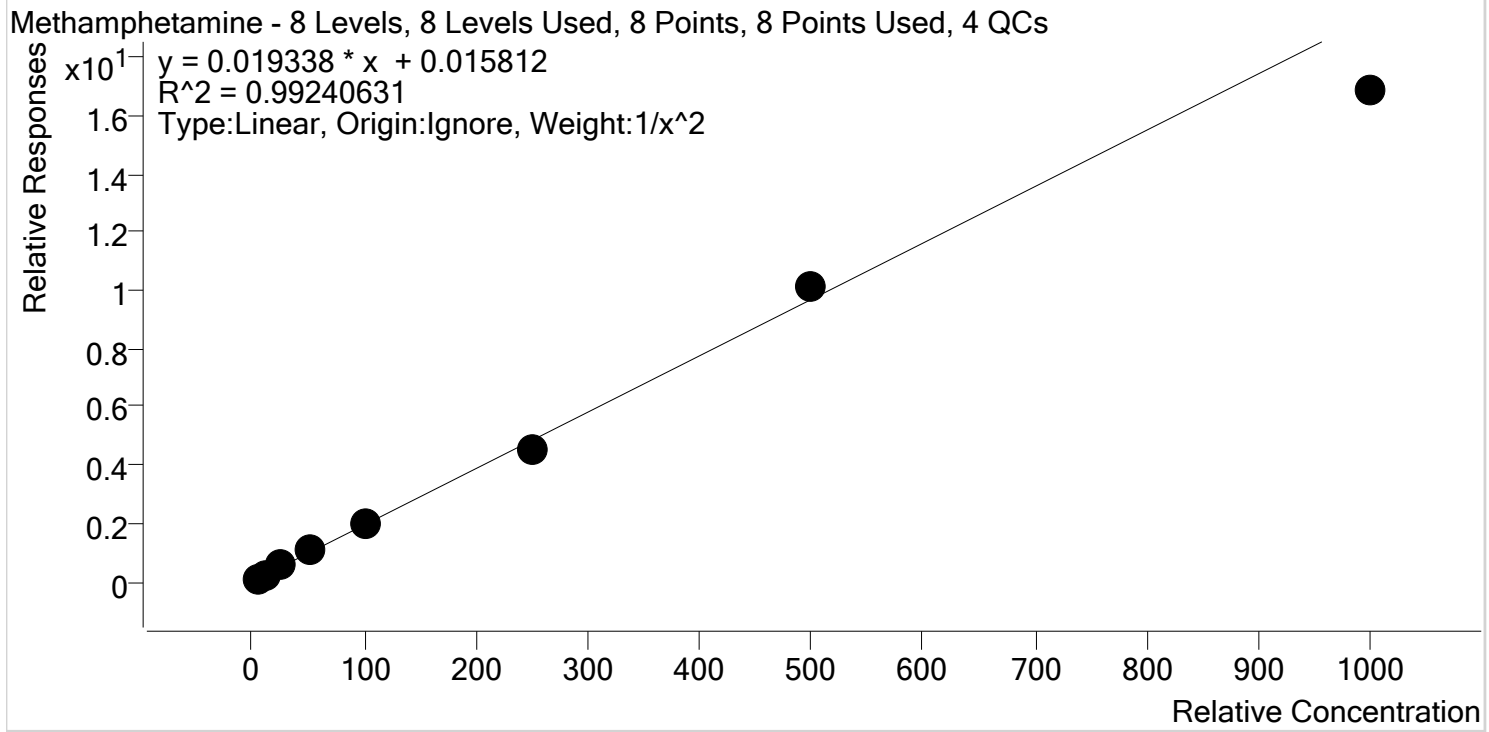
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	51.2	102.3
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
p1 Cal 7-500ng	7	✓	500.0	500.8	100.2
p1 Cal 8-1000ng	8	✓	1000.0	1012.5	101.3

S



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11



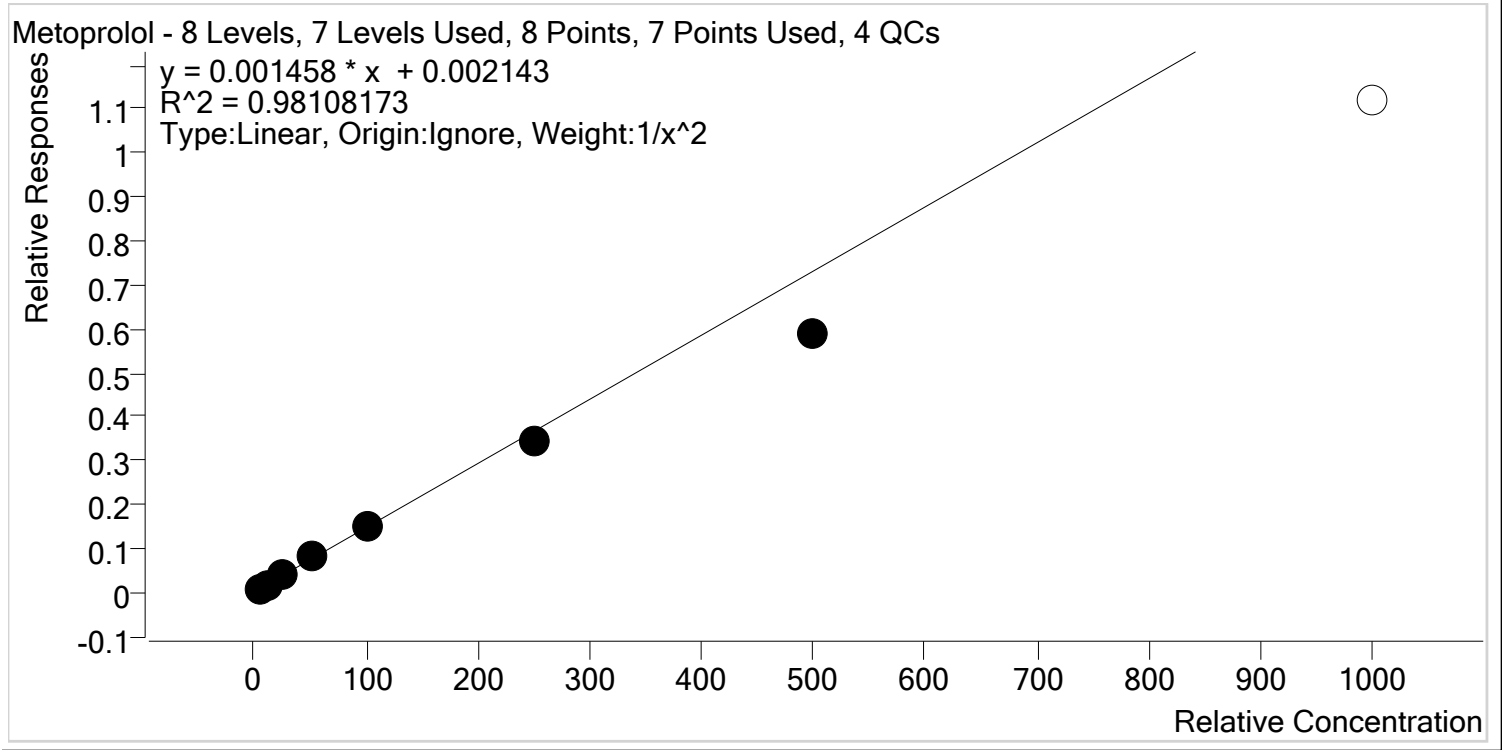
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.7
p1 Cal 2- 10ng	2	✓	10.0	10.7	106.7
p1 Cal 3 -25ng	3	✓	25.0	26.8	107.3
p1 Cal 4-50ng	4	✓	50.0	53.5	107.1
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	233.6	93.5
p1 Cal 7-500ng	7	✓	500.0	520.3	104.1
p1 Cal 8-1000ng	8	✓	1000.0	870.3	87.0

S



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	91.8
p1 Cal 2- 10ng	2	✓	10.0	11.0	109.9
p1 Cal 3 -25ng	3	✓	25.0	28.1	112.4
p1 Cal 4-50ng	4	✓	50.0	54.9	109.8
p1 Cal 5-100ng	5	✓	100.0	101.5	101.5
p1 Cal 6-250ng	6	✓	250.0	234.2	93.7
p1 Cal 7-500ng	7	✓	500.0	404.1	80.8
p1 Cal 8-1000ng	8	✗	1000.0	765.9	76.6

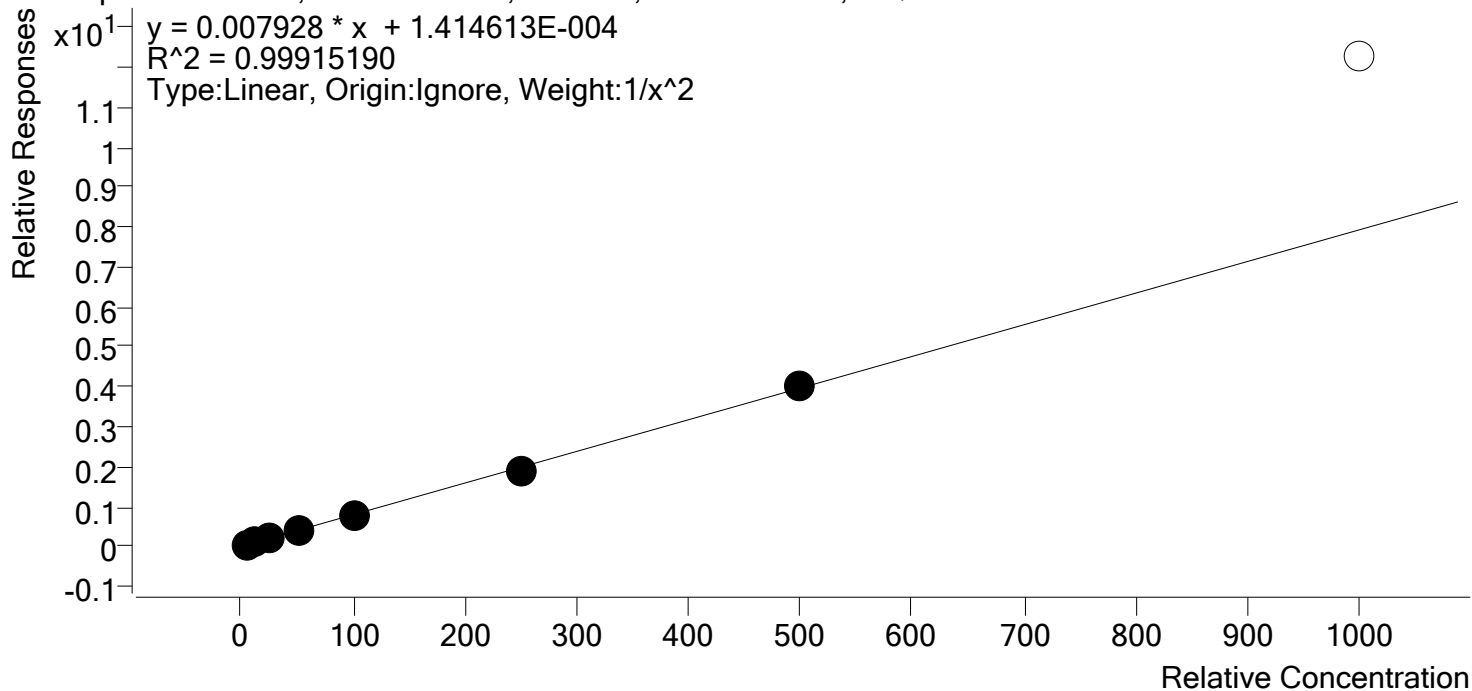
S



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

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



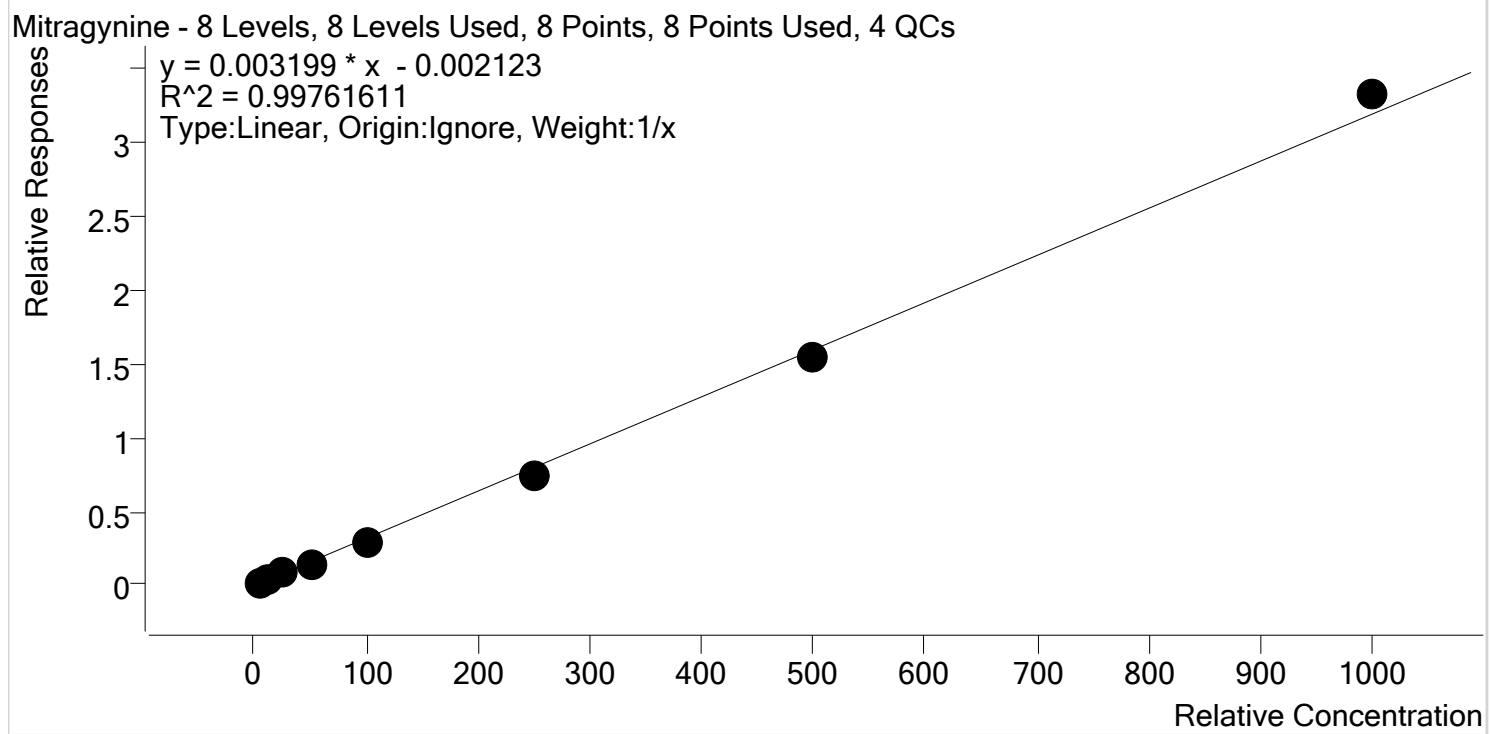
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.7
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng	6	✓	250.0	241.7	96.7
p1 Cal 7-500ng	7	✓	500.0	503.9	100.8
p1 Cal 8-1000ng	8	✗	1000.0	1547.6	154.8

S



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

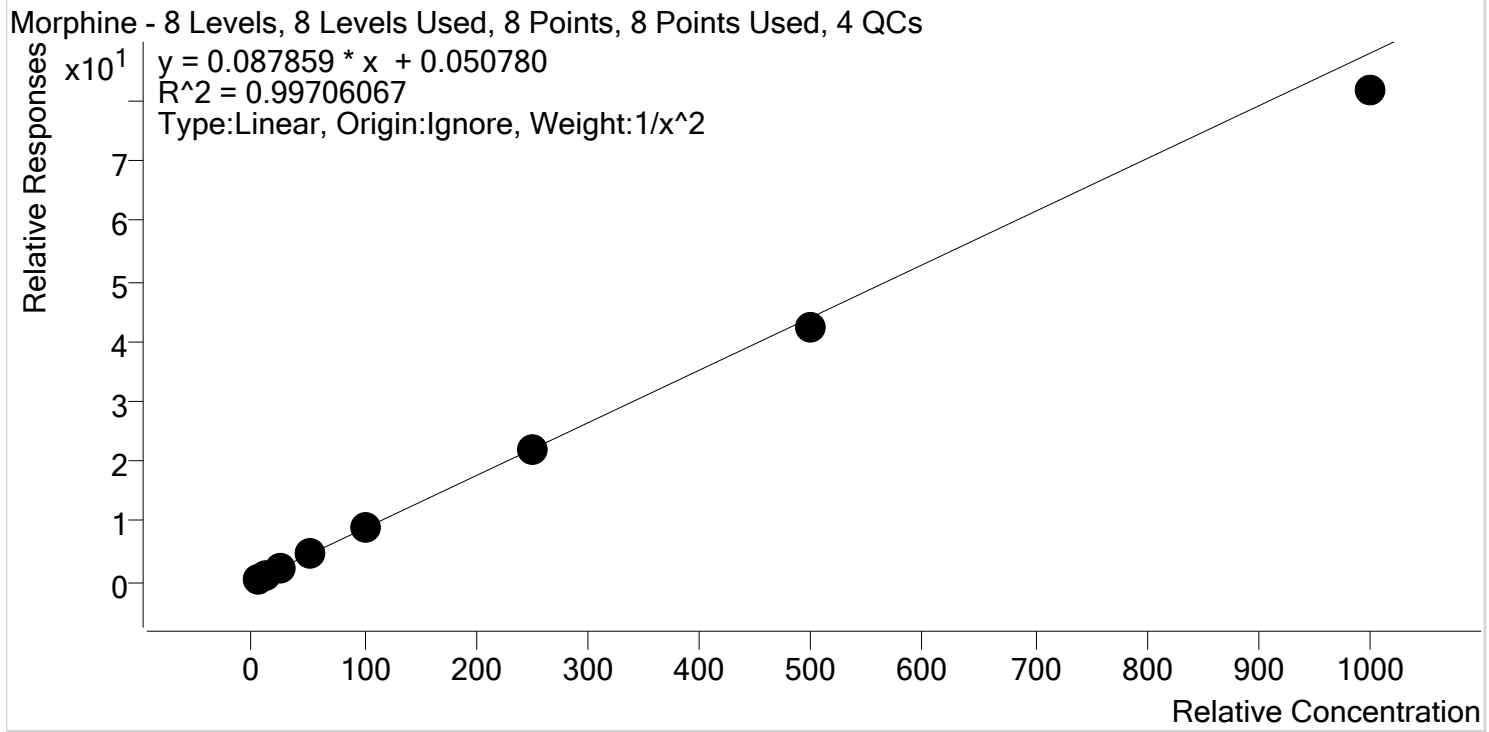


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	111.7
p1 Cal 2- 10ng	2	✓	10.0	10.9	108.6
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.1
p1 Cal 4-50ng	4	✓	50.0	47.5	95.0
p1 Cal 5-100ng	5	✓	100.0	93.8	93.8
p1 Cal 6-250ng	6	✓	250.0	231.1	92.5
p1 Cal 7-500ng	7	✓	500.0	485.4	97.1
p1 Cal 8-1000ng	8	✓	1000.0	1041.4	104.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

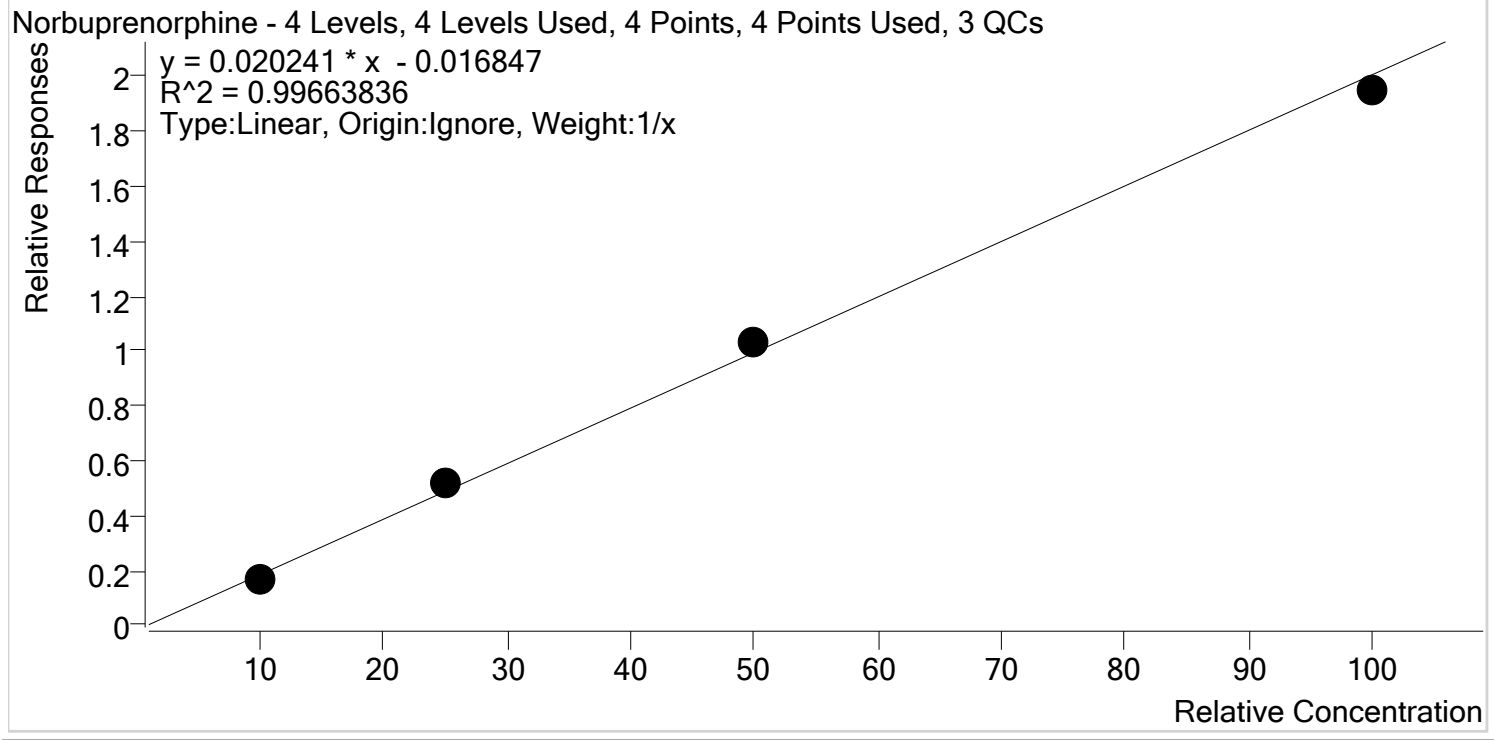


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.5
p1 Cal 3 -25ng	3	✓	25.0	26.1	104.4
p1 Cal 4-50ng	4	✓	50.0	53.2	106.5
p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	482.2	96.4
p1 Cal 8-1000ng	8	✓	1000.0	929.2	92.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3



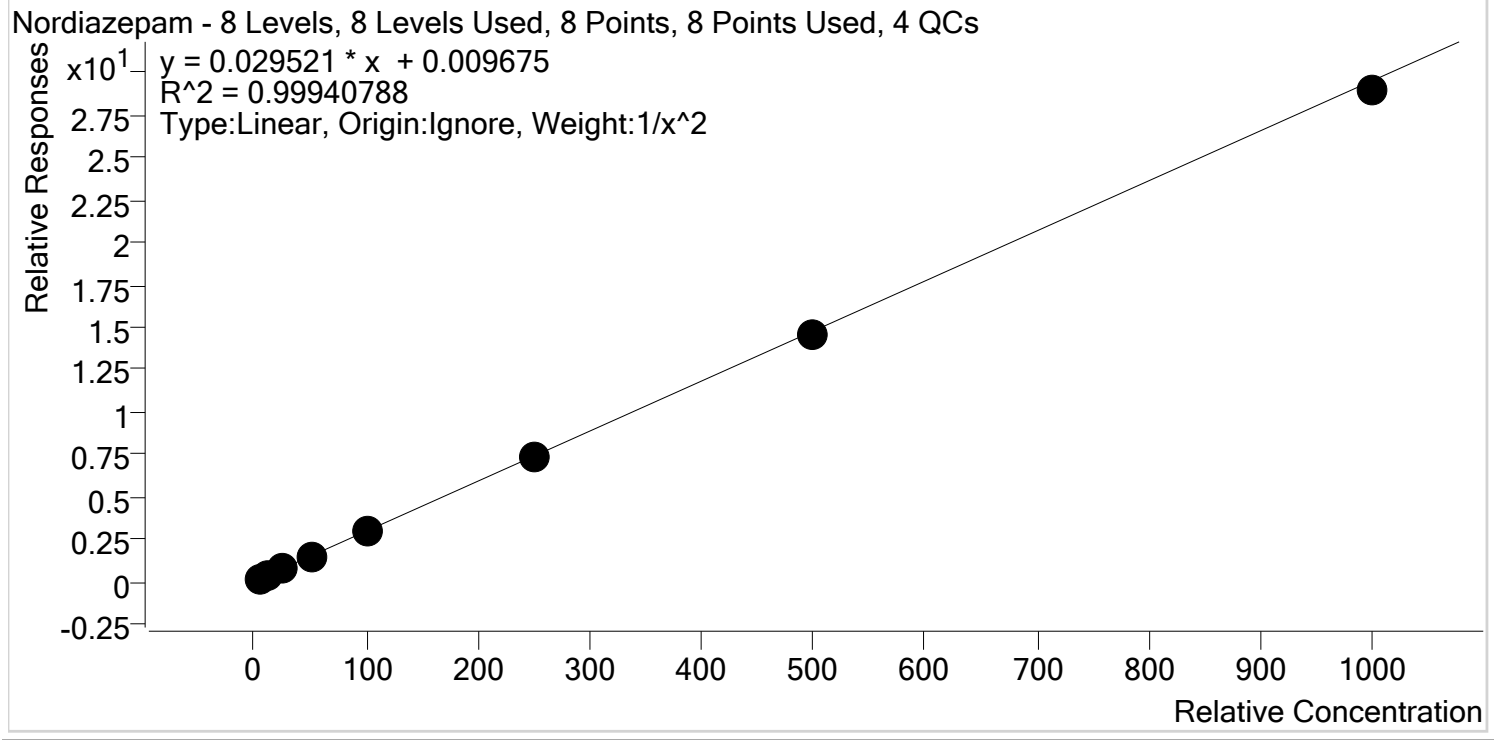
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 5-100ng	5	✓	10.0	9.3	92.8
p1 Cal 6-250ng	6	✓	25.0	26.5	105.8
p1 Cal 7-500ng	7	✓	50.0	52.1	104.2
p1 Cal 8-1000ng	8	✓	100.0	97.2	97.2

Did not evaluate.



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

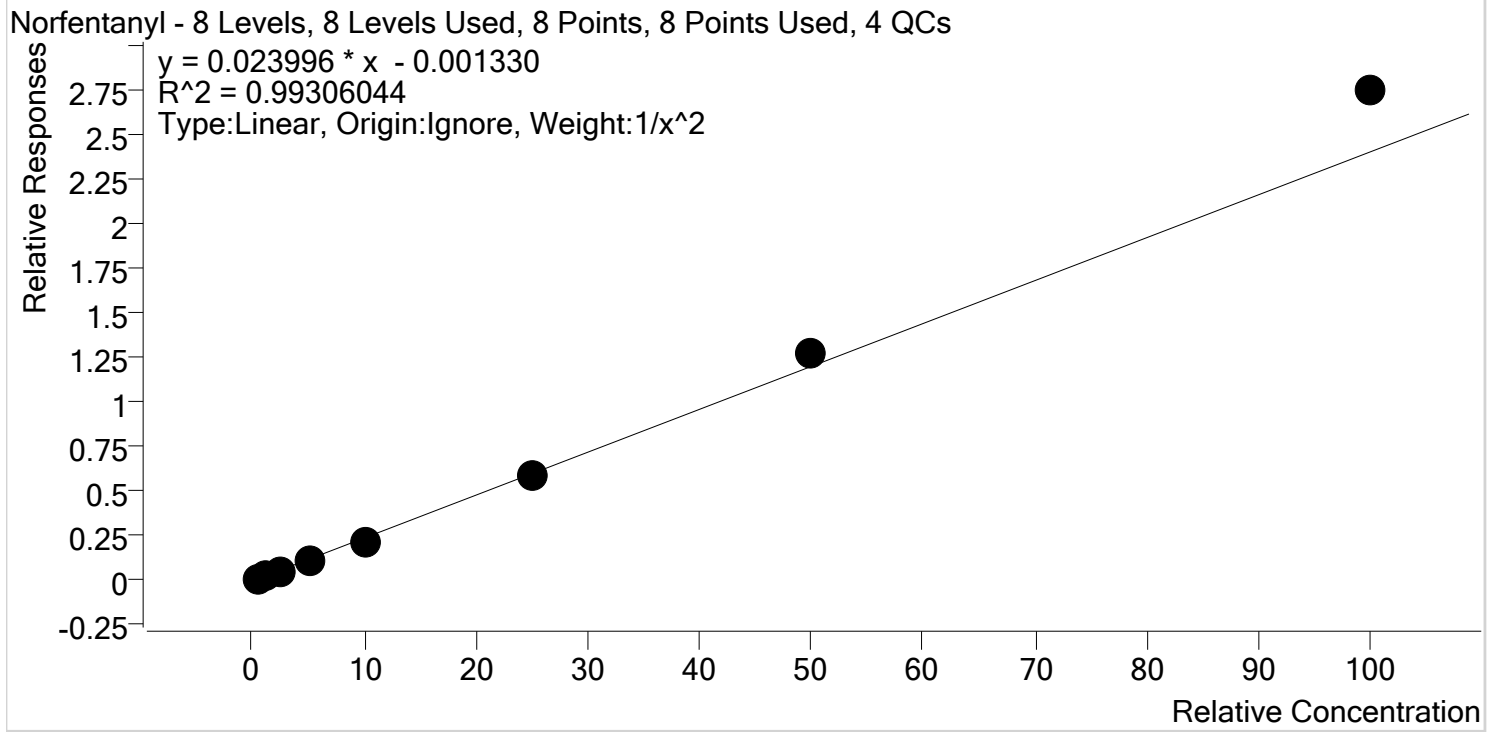


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.6
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.9
p1 Cal 4-50ng	4	✓	50.0	51.2	102.4
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	494.3	98.9
p1 Cal 8-1000ng	8	✓	1000.0	980.4	98.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Norfentanyl Internal Standard Norfentanyl-D5

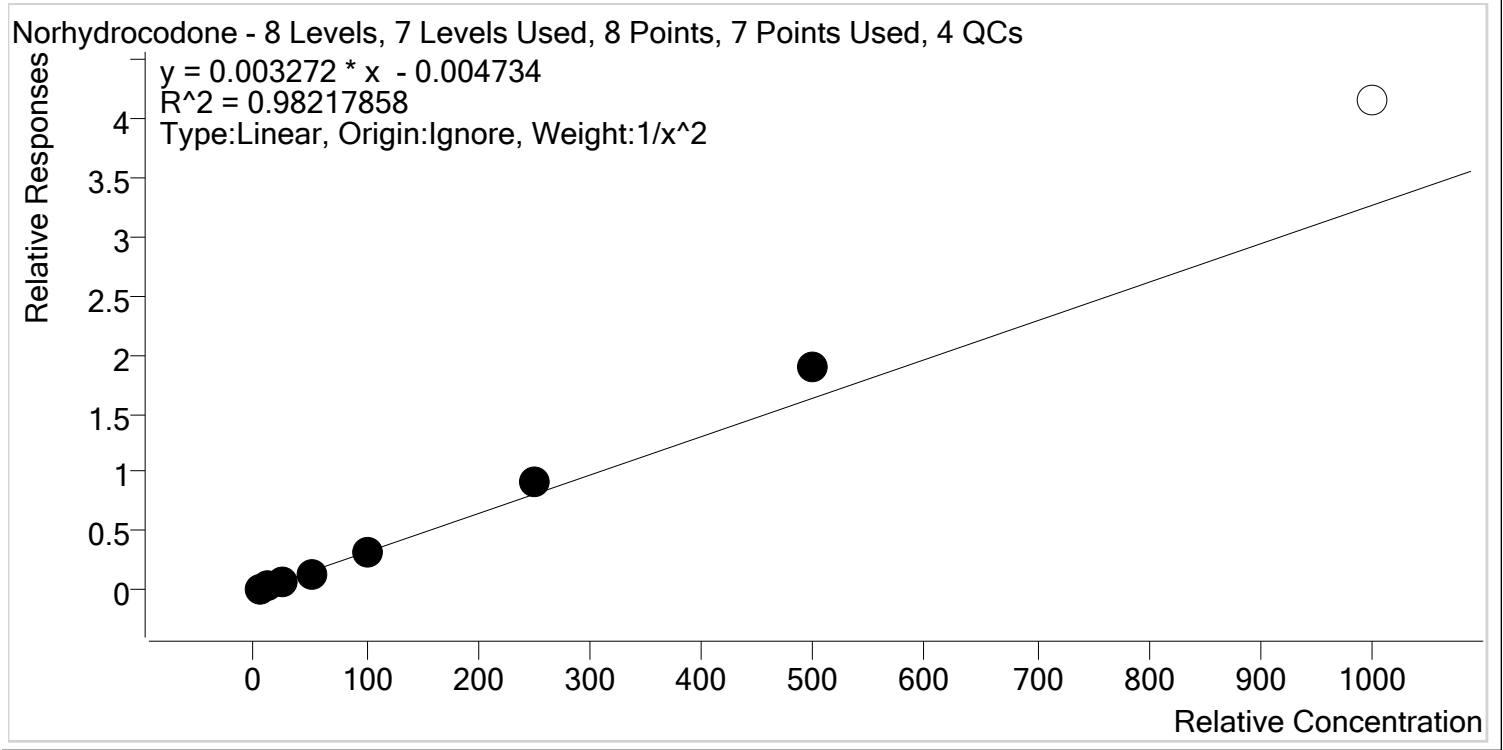


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.5
p1 Cal 2- 10ng	2	✓	1.0	1.0	96.9
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.8
p1 Cal 4-50ng	4	✓	5.0	4.7	93.5
p1 Cal 5-100ng	5	✓	10.0	9.4	93.7
p1 Cal 6-250ng	6	✓	25.0	24.5	97.9
p1 Cal 7-500ng	7	✓	50.0	52.7	105.4
p1 Cal 8-1000ng	8	✓	100.0	114.3	114.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

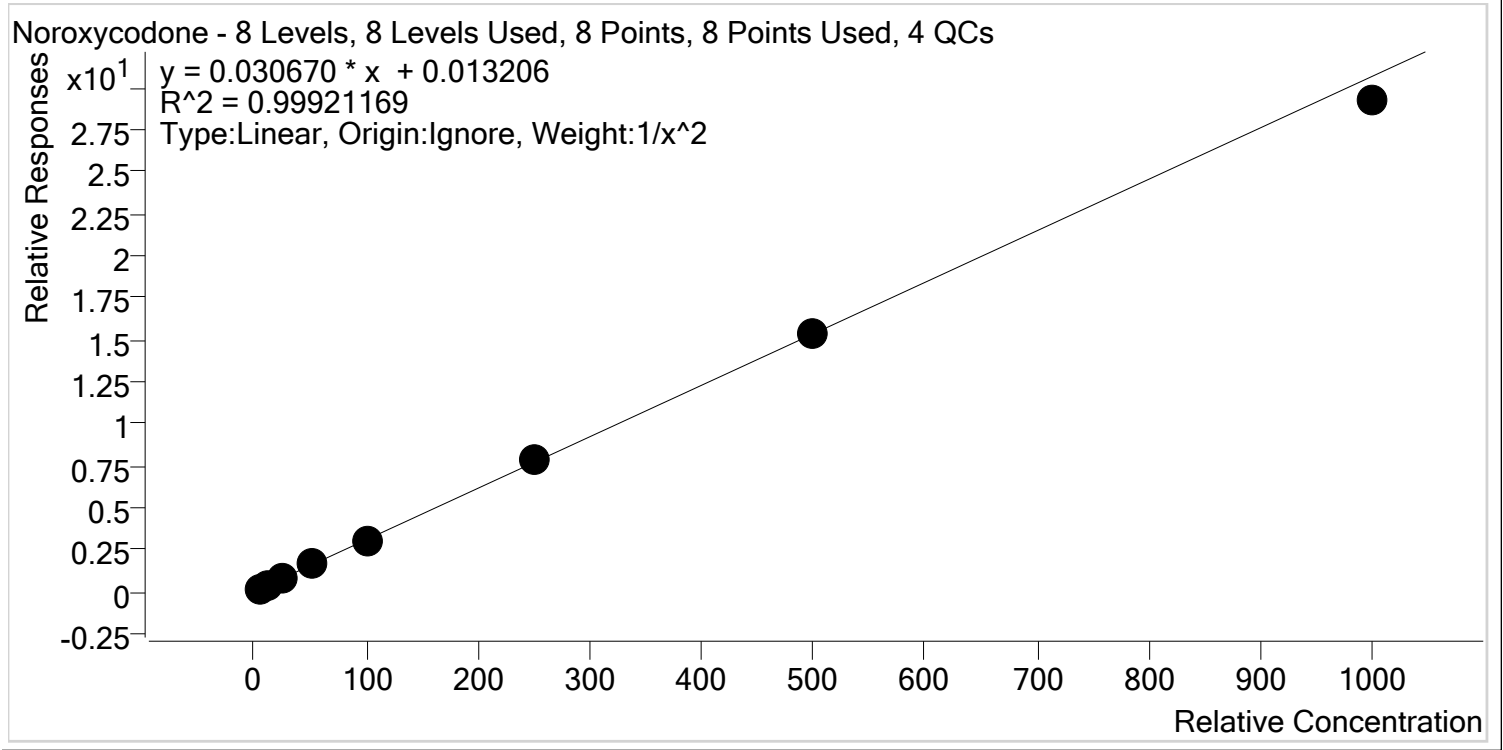


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.4
p1 Cal 2- 10ng	2	✓	10.0	9.1	91.5
p1 Cal 3 -25ng	3	✓	25.0	22.2	88.6
p1 Cal 4-50ng	4	✓	50.0	44.5	89.1
p1 Cal 5-100ng	5	✓	100.0	95.8	95.8
p1 Cal 6-250ng	6	✓	250.0	280.3	112.1
p1 Cal 7-500ng	7	✓	500.0	577.2	115.4
p1 Cal 8-1000ng	8	✗	1000.0	1271.6	127.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3



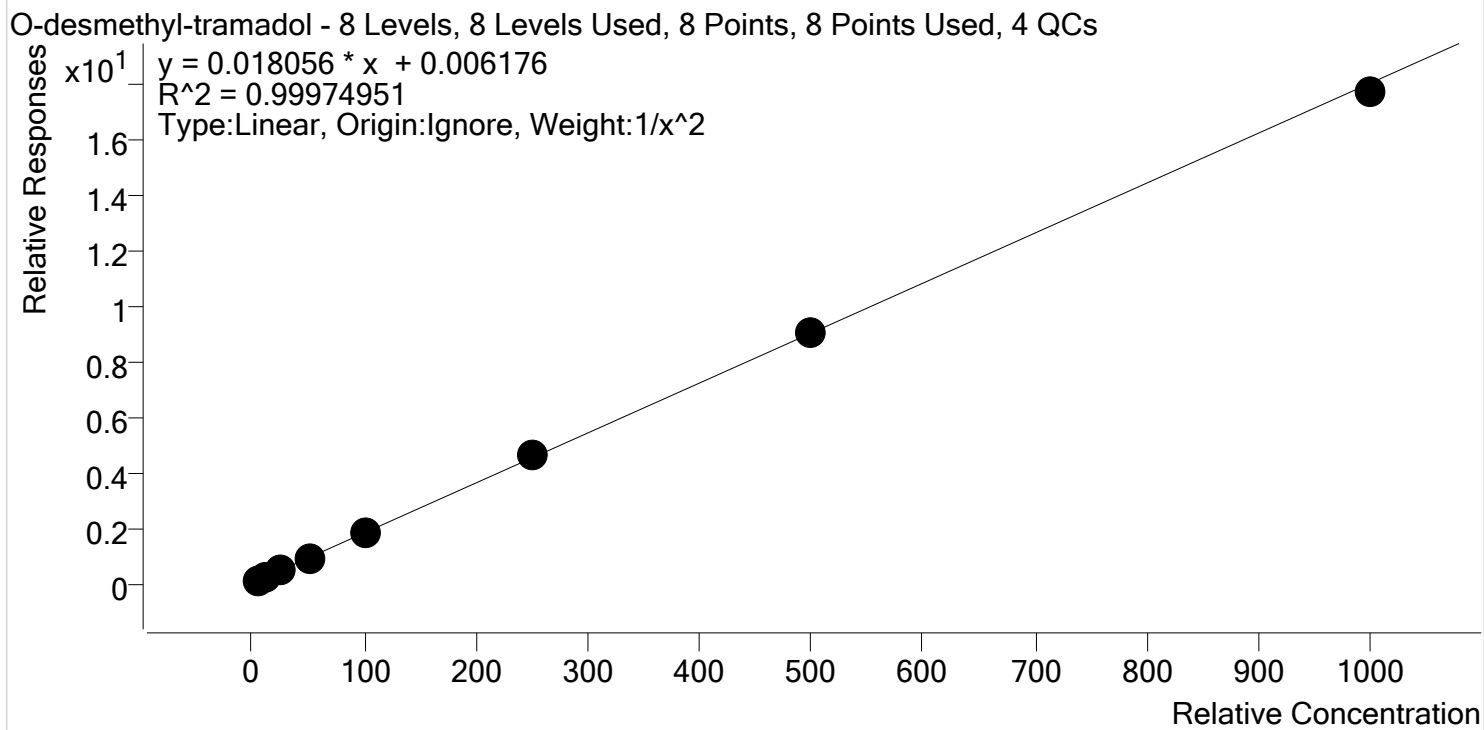
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	499.1	99.8
p1 Cal 8-1000ng	8	✓	1000.0	952.9	95.3

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6

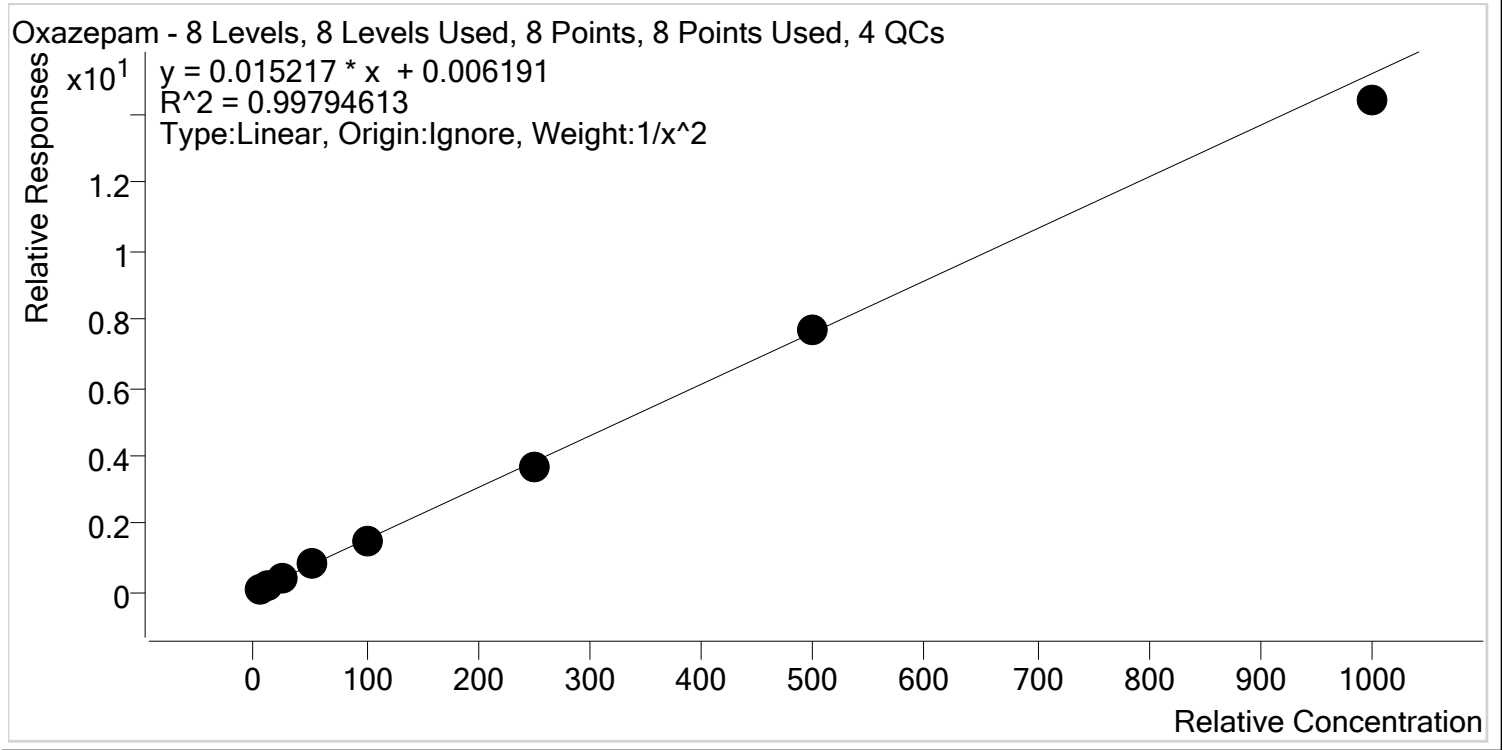


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	51.2	102.3
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	253.9	101.5
p1 Cal 7-500ng	7	✓	500.0	500.1	100.0
p1 Cal 8-1000ng	8	✓	1000.0	981.9	98.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

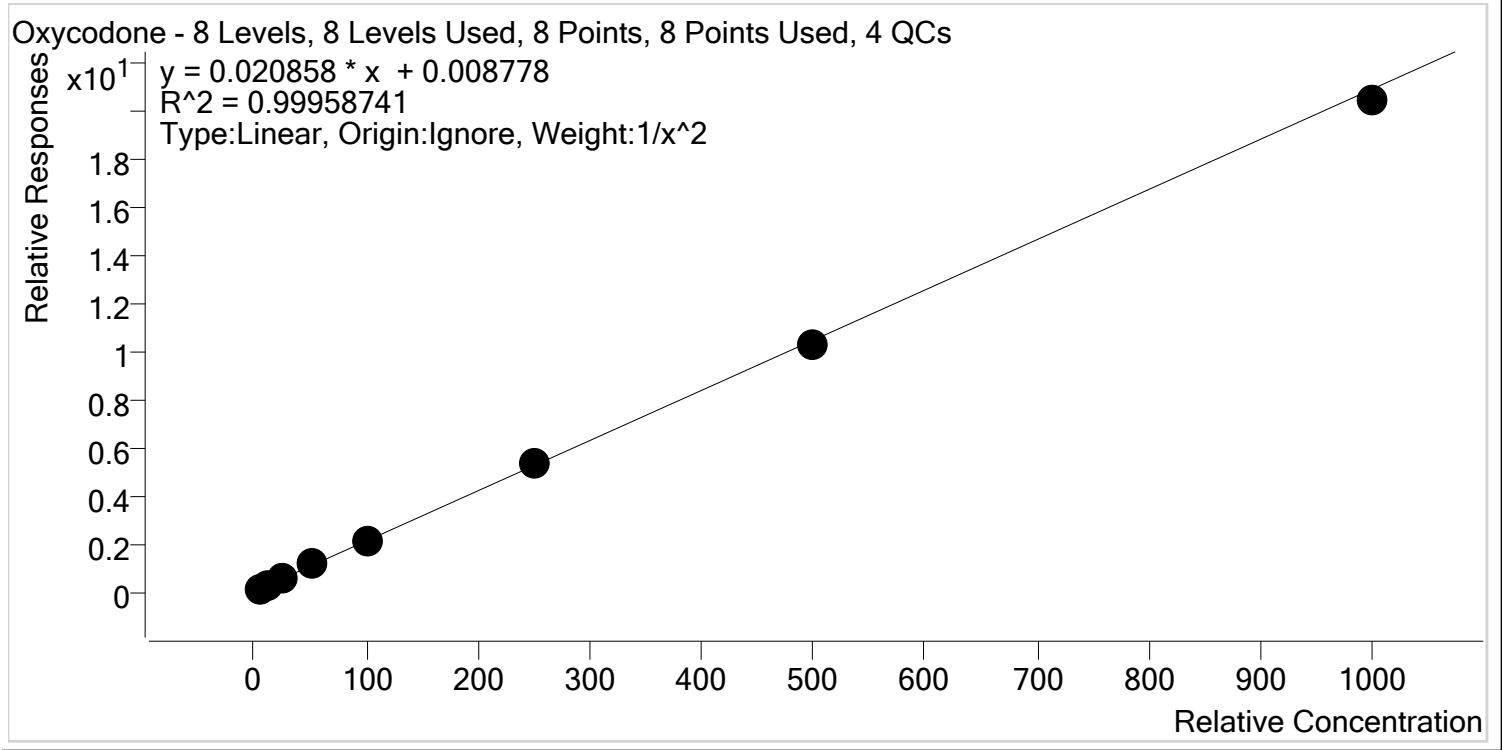


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.8
p1 Cal 4-50ng	4	✓	50.0	52.0	103.9
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	240.6	96.3
p1 Cal 7-500ng	7	✓	500.0	503.9	100.8
p1 Cal 8-1000ng	8	✓	1000.0	947.7	94.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

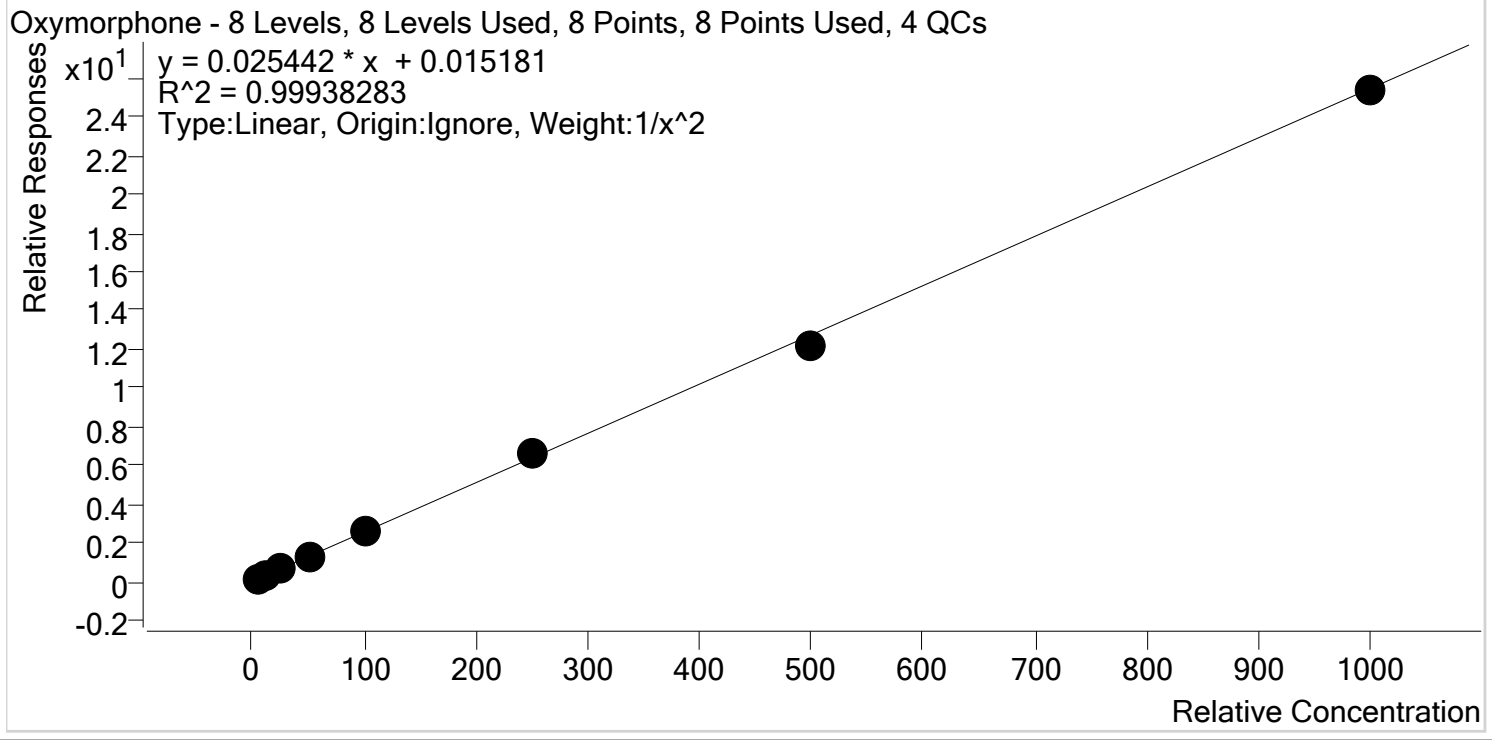


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	492.3	98.5
p1 Cal 8-1000ng	8	✓	1000.0	977.1	97.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

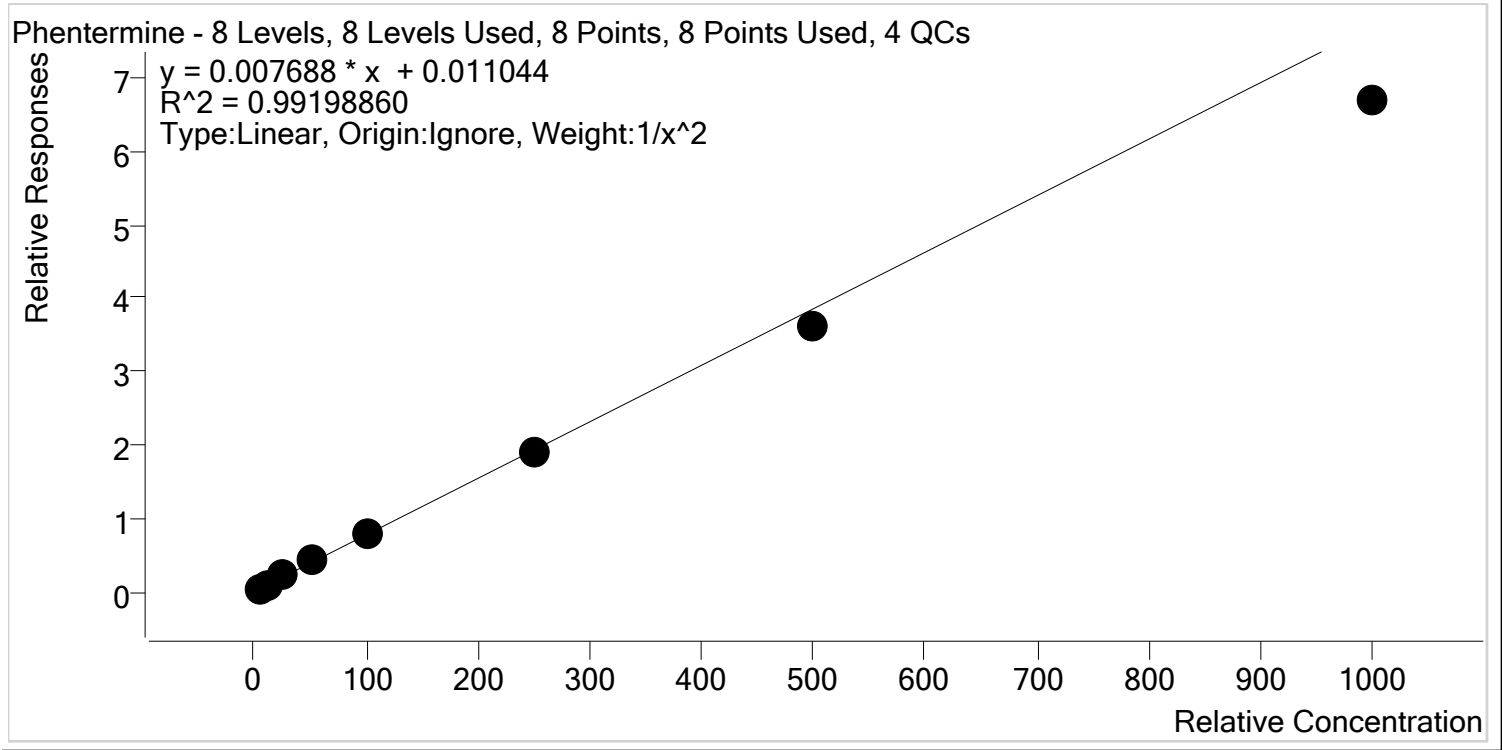


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	257.2	102.9
p1 Cal 7-500ng	7	✓	500.0	479.3	95.9
p1 Cal 8-1000ng	8	✓	1000.0	995.9	99.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.2
p1 Cal 2- 10ng	2	✓	10.0	10.7	106.6
p1 Cal 3 -25ng	3	✓	25.0	27.1	108.3
p1 Cal 4-50ng	4	✓	50.0	53.9	107.9
p1 Cal 5-100ng	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng	6	✓	250.0	247.1	98.8
p1 Cal 7-500ng	7	✓	500.0	471.1	94.2
p1 Cal 8-1000ng	8	✓	1000.0	868.4	86.8

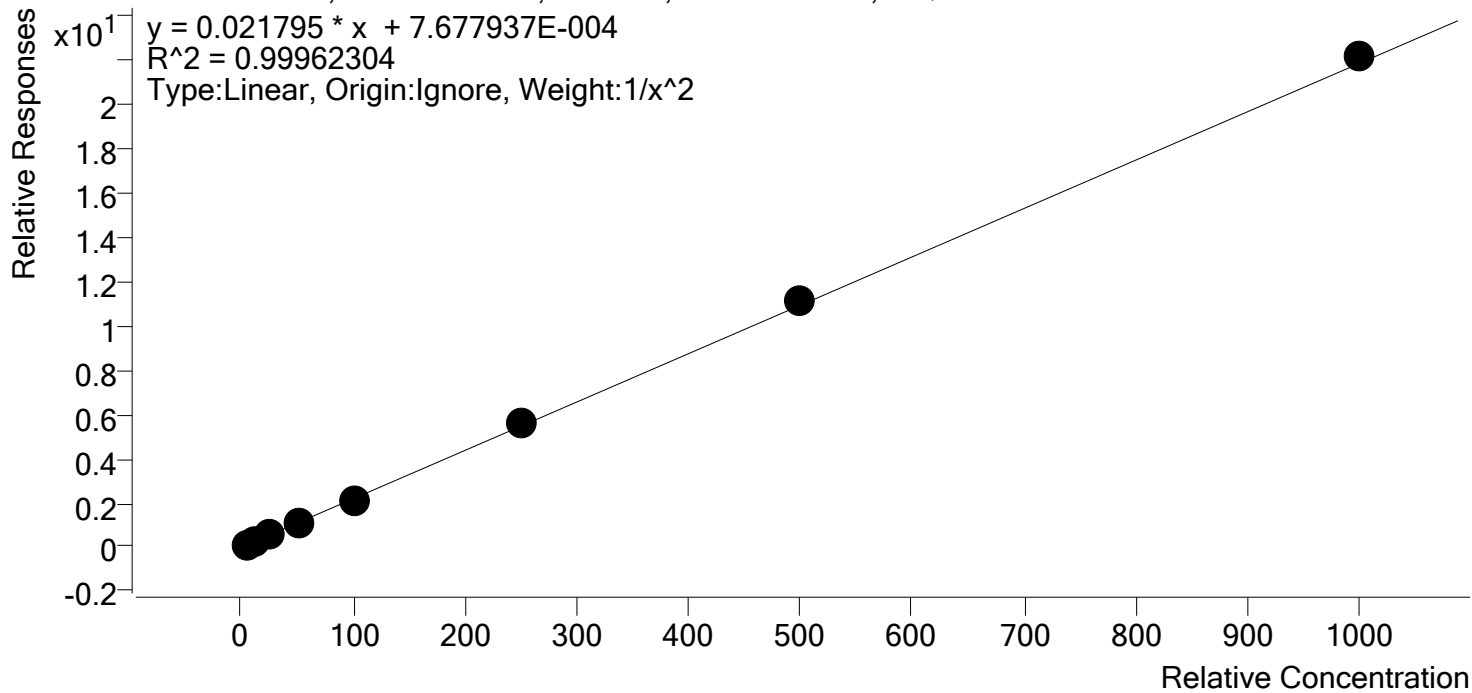
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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



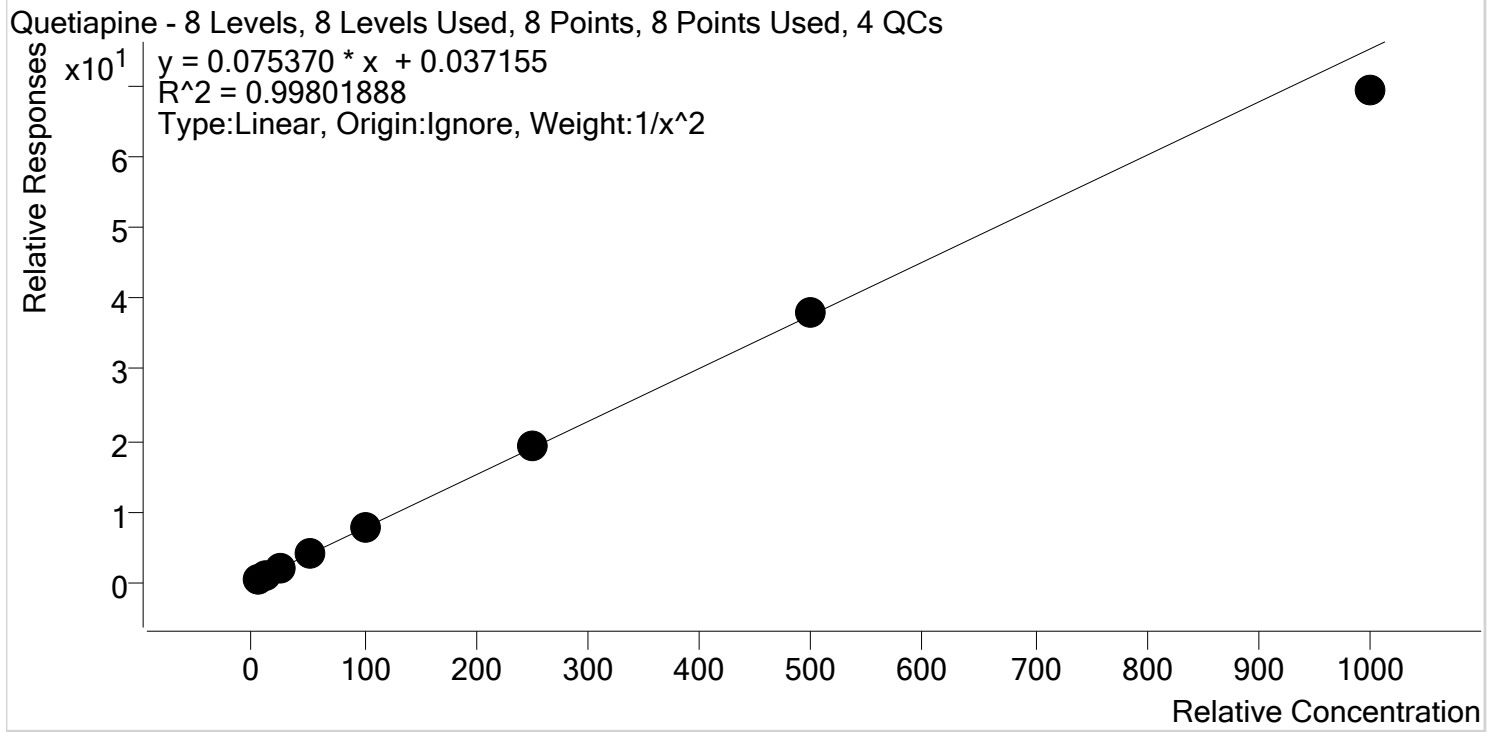
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
p1 Cal 4-50ng	4	✓	50.0	49.4	98.9
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	253.0	101.2
p1 Cal 7-500ng	7	✓	500.0	511.4	102.3
p1 Cal 8-1000ng	8	✓	1000.0	1014.2	101.4

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

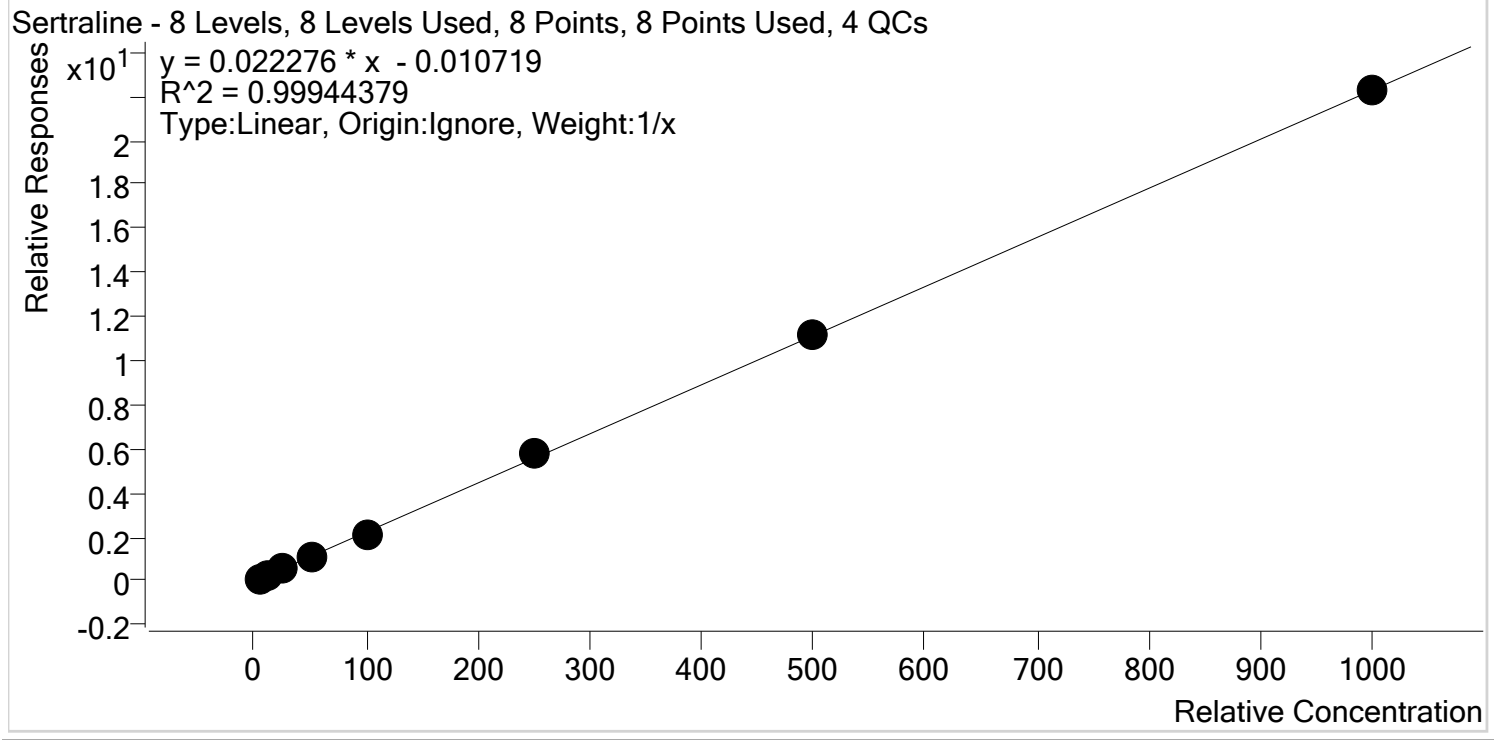


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.0
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	255.9	102.4
p1 Cal 7-500ng	7	✓	500.0	503.3	100.7
p1 Cal 8-1000ng	8	✓	1000.0	921.7	92.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3



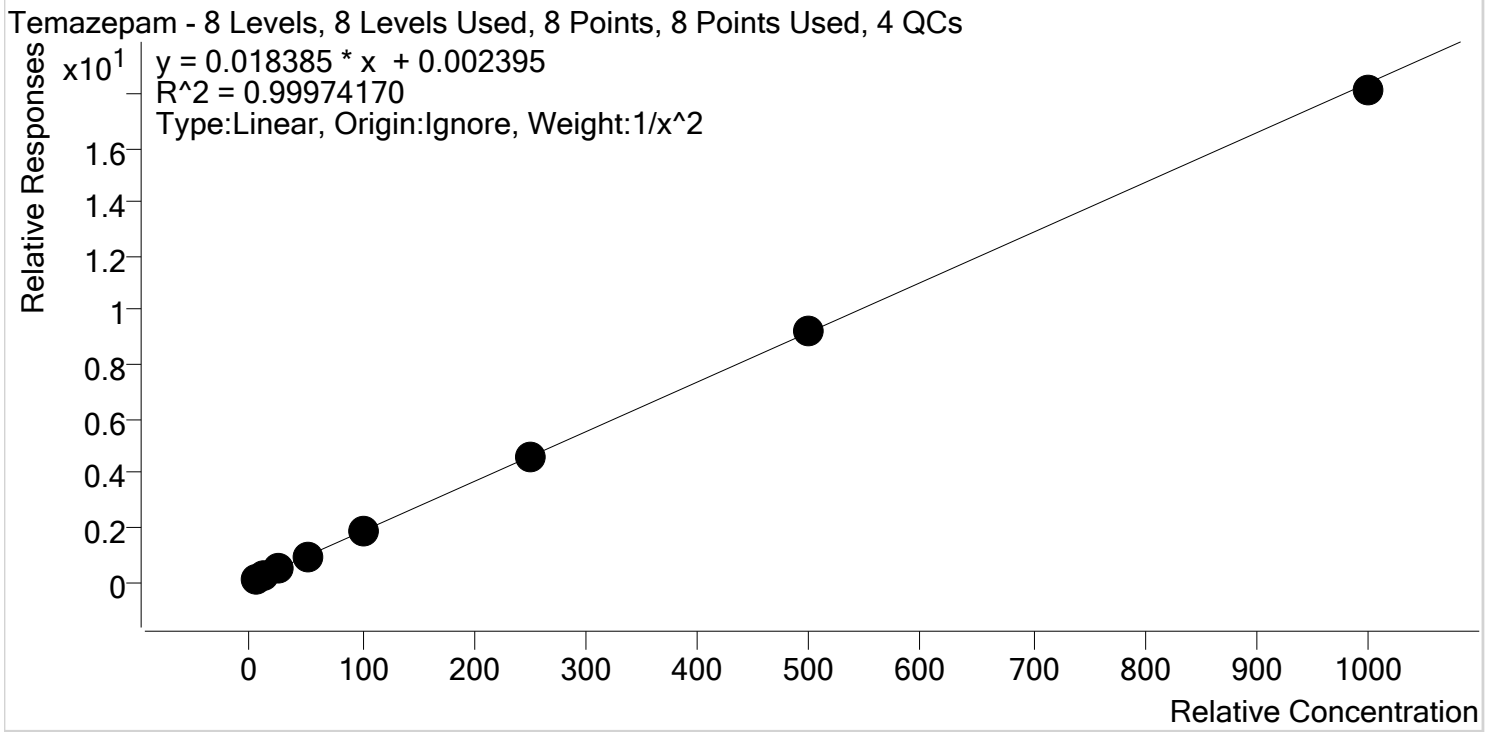
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.1
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.7
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	92.3	92.3
p1 Cal 6-250ng	6	✓	250.0	259.3	103.7
p1 Cal 7-500ng	7	✓	500.0	499.7	99.9
p1 Cal 8-1000ng	8	✓	1000.0	999.2	99.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

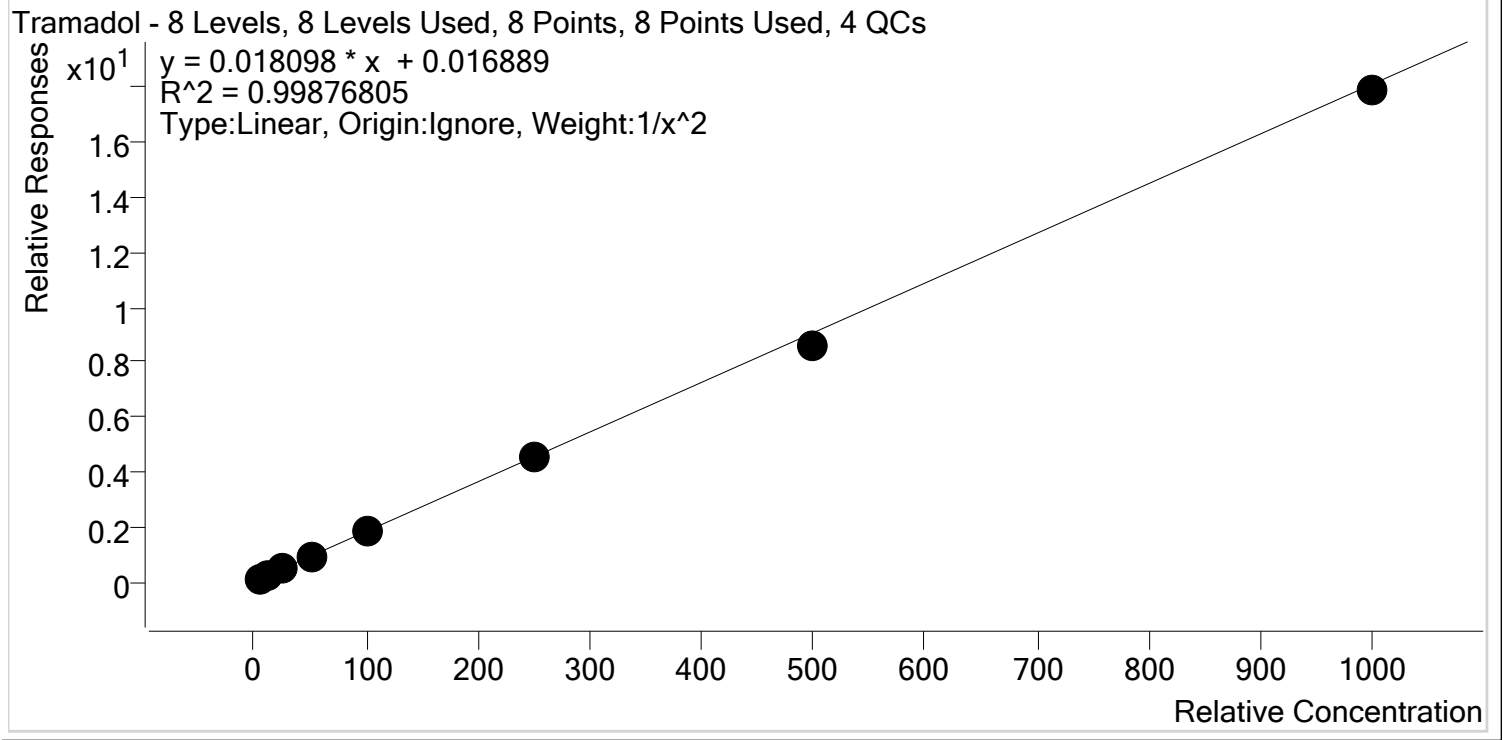


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.1
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.9
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	98.1	98.1
p1 Cal 6-250ng	6	✓	250.0	248.6	99.4
p1 Cal 7-500ng	7	✓	500.0	503.3	100.7
p1 Cal 8-1000ng	8	✓	1000.0	984.9	98.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.4
p1 Cal 4-50ng	4	✓	50.0	51.8	103.6
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	246.7	98.7
p1 Cal 7-500ng	7	✓	500.0	472.4	94.5
p1 Cal 8-1000ng	8	✓	1000.0	987.3	98.7

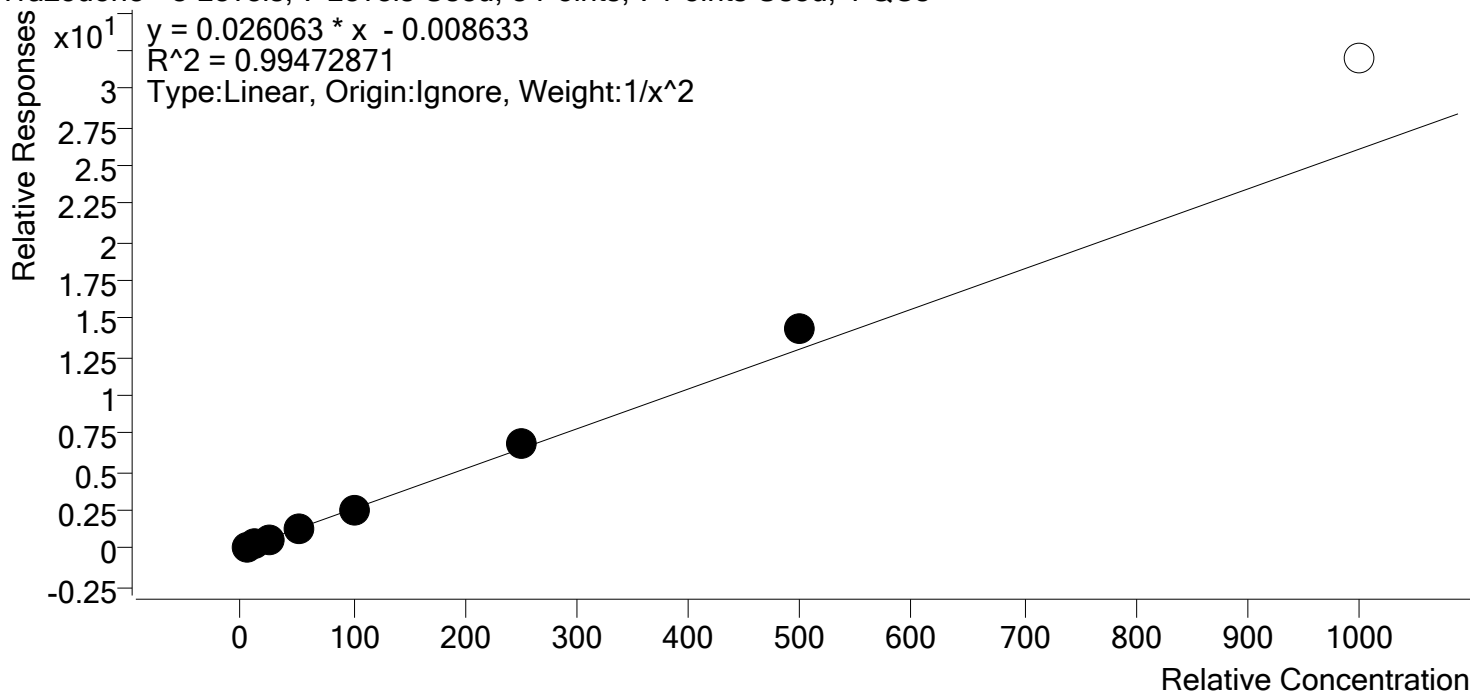
5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	23.4	93.5
p1 Cal 4-50ng	4	✓	50.0	48.2	96.5
p1 Cal 5-100ng	5	✓	100.0	94.0	94.0
p1 Cal 6-250ng	6	✓	250.0	261.2	104.5
p1 Cal 7-500ng	7	✓	500.0	552.2	110.4
p1 Cal 8-1000ng	8	x	1000.0	1226.6	122.7

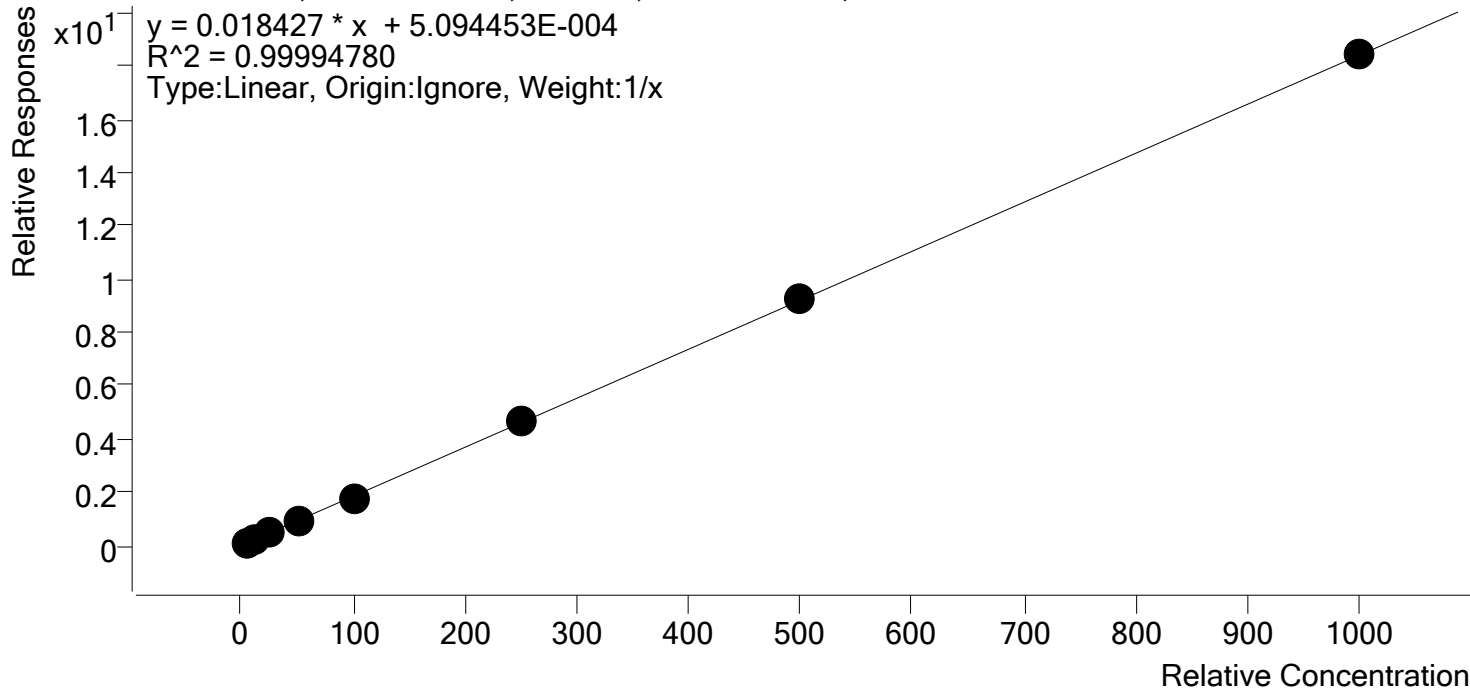
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

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

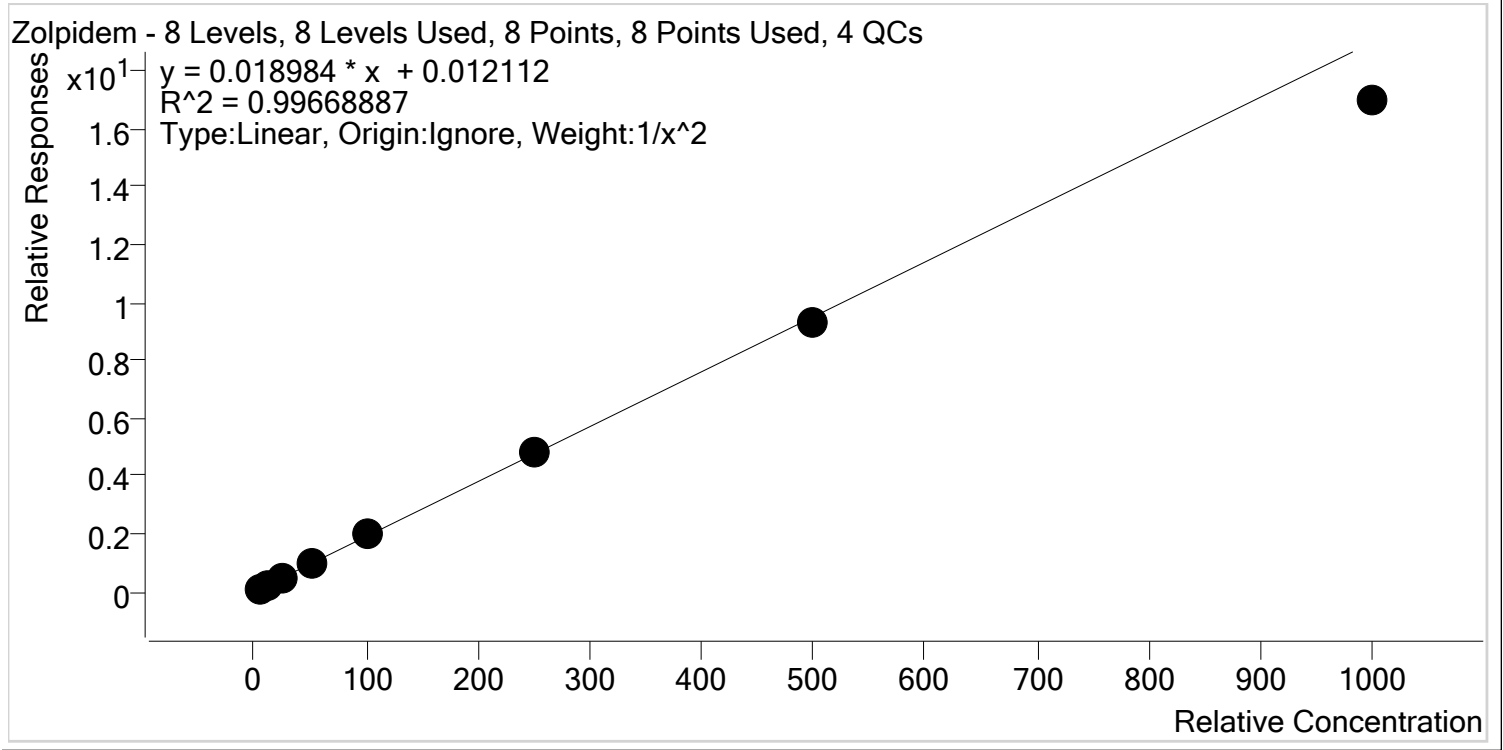


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.7
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.6
p1 Cal 4-50ng	4	✓	50.0	50.0	100.1
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	499.9	100.0
p1 Cal 8-1000ng	8	✓	1000.0	1001.5	100.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
Last Cal. Update 9/18/2019 8:54 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.0
p1 Cal 4-50ng	4	✓	50.0	52.6	105.3
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	254.8	101.9
p1 Cal 7-500ng	7	✓	500.0	488.5	97.7
p1 Cal 8-1000ng	8	✓	1000.0	893.9	89.4

AM #28 Multi-Drug Quant. Results



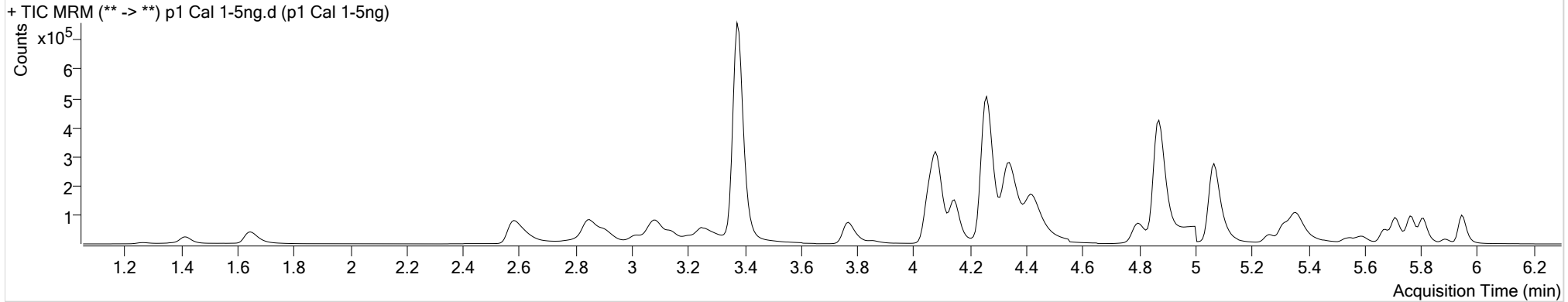
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
9/18/2019 8:54:35 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-A5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 1:41:17 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	1252	15582.89	79.4	1630.84	56380	0.5257 ng/ml
7-aminoclonazepam	4.258	10944	46.60	82.2	∞	89388	4.8480 ng/ml
a-hydroxyalprazolam	5.693	958	41.28	79.8	∞	10688	5.2716 ng/ml
alpha-PVP	4.431	51424	107.34	48.6	1740.04	458619	5.0368 ng/ml
Alprazolam	5.770	23774	275.57	107.0	719.81	147373	5.7008 ng/ml
Amphetamine	3.095	29799	193.29	58.7	∞	81242	4.6014 ng/ml
Benzoyllecgonine	3.880	1791	116.24	7.8	113.47	14649	5.4832 ng/ml
Bupropion	4.813	27802	4223.31	59.3	661.27	191176	4.7083 ng/ml
Carisoprodol	5.719	12984	698.45	57.0	50.88	127674	4.9477 ng/ml
Citalopram	5.269	8673	135.19	43.6	2060.11	81201	5.2312 ng/ml
Clonazepam	5.600	2456	119.88	35.0	1130.46	8284	4.9811 ng/ml
Cocaine	4.338	65615	61366.92	44.2	∞	1035593	4.8319 ng/ml
Codeine	2.637	7692	41673.03	115.3	22665.58	73016	4.9118 ng/ml
Cyclobenzaprine	5.664	2123	∞	15.1 High	4.41 Low	18183	5.4717 ng/ml
Dextromethorphan	5.360	4083	180.97	74.8	18.10	37133	5.1926 ng/ml
Dextrorphan	4.147	13188	7949.01	195.9	8903.14	311697	5.1921 ng/ml
Diazepam	5.955	18753	1510.44	88.1	220.37	166743	4.8793 ng/ml
Dihydrocodeine	2.622	23989	5116.64	66.8	1211.37	256002	4.7996 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.367	21239	748.50	32.2	30.69	284551	4.9253 ng/ml
EDDP	5.318	17435	575.70	42.4	20.78	187555	4.9644 ng/ml
Fentanyl	5.099	258	16.64	98.8	45.45	30730	0.5070 ng/ml
Fluoxetine	5.729	1980	42.01	13.0 High	958.82	16458	5.1420 ng/ml
Hydrocodone	3.105	17527	573.78	35.6	64.16	199105	5.2033 ng/ml
Hydromorphone	1.654	16378	236.32	74.2	126.03	117468	4.9983 ng/ml
Ketamine	4.074	60198	3749.06	38.0	151.72	529552	4.9289 ng/ml
Lamotrigine	4.288	5312	1912.44	81.9	1927.24	529552	4.9490 ng/ml
Lorazepam	5.741	1038	∞	31.3 Low	3.52 Low	8284	3.9266 ng/ml
Meprobamate	4.902	4144	249.58	32.0	205.48	38574	5.4566 ng/ml
Methadone	5.674	7796	91.40	54.2	371.31	76912	5.0395 ng/ml
Methamphetamine	3.322	31036	61.99	42.9	100.52	289121	4.7335 ng/ml
Metoprolol	4.340	12299	∞	96.1	2448.74	1391450	4.5907 ng/ml
Mirtazapine	4.778	18501	1335.31	44.1	217.34	458619	5.0704 ng/ml
Mitragynine	5.227	1211	5617.15	38.3	976.59	76912	5.5869 ng/ml
Morphine	1.273	3802	∞	21.6	2318.09	7715	5.0320 ng/ml
Nordiazepam	5.894	3397	∞	60.9	584.41	21422	5.0447 ng/ml
Norfentanyl	4.108	6569	247.72	37.4	50.45	592626	0.5173 ng/ml
Norhydrocodone	3.100	839	∞	26.5	∞	65381	5.3715 ng/ml
Noroxycodone	2.930	14173	351.19	47.1	15.89	86174	4.9319 ng/ml
O-desmethyl-tramadol	3.381	178092	1002.54	6.2	829.12	1845673	5.0020 ng/ml
Oxazepam	5.751	1205	31.73	87.6	14.33	15125	4.8274 ng/ml
Oxycodone	2.874	39105	2710.26	29.9	∞	346666	4.9874 ng/ml
Oxymorphone	1.417	9627	125.57	47.5	210.18	67308	5.0251 ng/ml
Phentermine	3.805	11656	34.87	2.8	38.40	246611	4.7113 ng/ml
Promethazine	5.589	5072	326.85	31.4	50.87	45880	5.0365 ng/ml
Quetiapine	5.551	12906	273.67	56.3	20271.01	31239	4.9885 ng/ml
Sertraline	5.804	794	40.25	113.8	48.94	7798	5.0544 ng/ml
Temazepam	5.818	13200	301.51	36.4	13.20	140636	4.9747 ng/ml
Tramadol	4.273	147254	3999.02	3.4	106.49	1391450	4.9142 ng/ml
Trazodone	5.113	9352	10380.82	79.6	18605.42	74956	5.1183 ng/ml
Venlafaxine	5.068	64102	266.74	35.2	669.49	667252	5.1857 ng/ml
Zolpidem	4.891	119208	226.39	32.6	2228.16	1128525	4.9261 ng/ml

AM #28 Multi-Drug Quant. Results



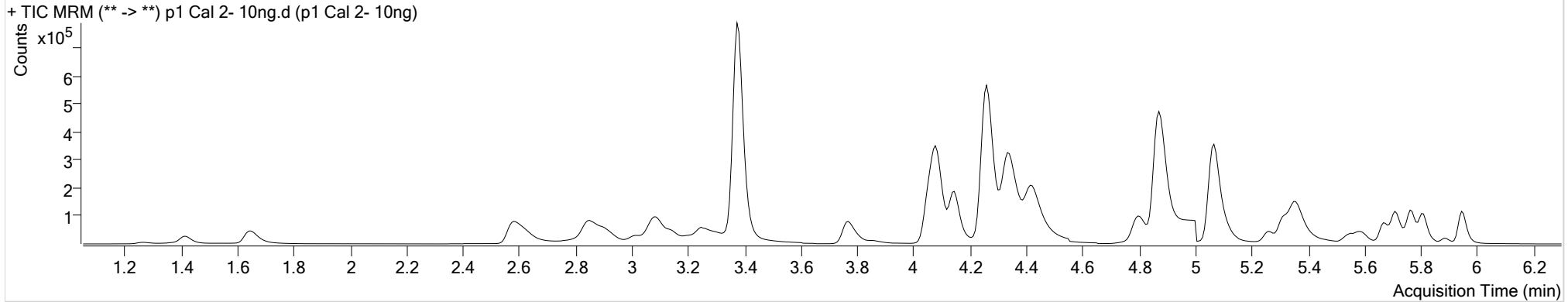
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin
9/18/2019 8:54:35 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-B5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 1:51:56 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	2456	∞	77.7	326.61	53875	1.0499 ng/ml
7-aminoclonazepam	4.258	21152	1833.28	82.3	∞	91299	10.2090 ng/ml
a-hydroxyalprazolam	5.693	1701	88.54	80.2	84.93	11067	8.9873 ng/ml
alpha-PVP	4.431	111697	7406.00	49.0	1676.16	515211	9.9349 ng/ml
Alprazolam	5.770	47943	970.78	108.7	1362.06	150524	10.3584 ng/ml
Amphetamine	3.095	58712	513.60	57.8	1777.29	78381	11.0478 ng/ml
Benzoylcegonine	3.880	3240	57.78	7.6	202.80	14622	10.0000 ng/ml
Bupropion	4.813	67143	43680.80	56.6	1848.09	231569	10.1128 ng/ml
Carisoprodol	5.719	27946	∞	57.0	127.23	136489	10.1177 ng/ml
Citalopram	5.262	21177	2782.22	41.9	∞	101186	10.0314 ng/ml
Clonazepam	5.600	5280	∞	35.8	∞	9208	10.0271 ng/ml
Cocaine	4.338	132681	14271.52	44.3	2599.75	1070957	9.7952 ng/ml
Codeine	2.630	15064	1088.09	111.7	8317.94	71384	10.0314 ng/ml
Cyclobenzaprine	5.664	7013	13878.71	10.7	11.52	31711	10.1643 ng/ml
Dextromethorphan	5.360	10314	525.18	82.7	390.35	50417	9.7569 ng/ml
Dextrorphan	4.147	28641	113.22	207.3	2219.00	360747	9.9179 ng/ml
Diazepam	5.955	38382	∞	84.0	2801.44	171319	10.2709 ng/ml
Dihydrocodeine	2.615	45113	13990.33	66.7	2427.08	247907	10.3043 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.360	53235	267.08	32.5	887.89	368443	9.7183 ng/ml
EDDP	5.318	43378	994.52	41.0	∞	230568	10.1935 ng/ml
Fentanyl	5.099	836	81.51	88.2	501.70	48092	1.0121 ng/ml
Fluoxetine	5.722	7490	104.22	9.4	∞	31514	10.0040 ng/ml
Hydrocodone	3.105	31894	453.57	42.6	98.81	214095	9.1646 ng/ml
Hydromorphone	1.654	31115	1021.68	74.4	788.75	112920	10.0676 ng/ml
Ketamine	4.074	116290	227.73	37.5	612.97	526360	10.0802 ng/ml
Lamotrigine	4.288	10630	3180.42	78.5	394.73	526360	10.1838 ng/ml
Lorazepam	5.741	2099	73.71	40.9	10.53	9208	9.3309 ng/ml
Meprobamate	4.902	8651	5838.90	26.1	120.12	40655	10.3642 ng/ml
Methadone	5.674	20559	192.26	57.4	3335.49	103427	9.9004 ng/ml
Methamphetamine	3.315	64720	106.30	41.6	299.38	291421	10.6668 ng/ml
Metoprolol	4.340	26030	114433.95	83.9	∞	1432197	10.9924 ng/ml
Mirtazapine	4.771	39554	97.89	54.0	98.47	515211	9.6654 ng/ml
Mitragynine	5.227	3373	11120.00	37.0	4366.98	103427	10.8576 ng/ml
Morphine	1.273	6750	3774.93	22.5	196.64	7589	9.5458 ng/ml
Nordiazepam	5.894	6972	16875.45	54.2	2073.81	23644	9.6616 ng/ml
Norfentanyl	4.108	14109	84.42	36.1	441.88	643552	0.9690 ng/ml
Norhydrocodone	3.100	1638	84.66	26.9	111.63	65017	9.1495 ng/ml
Noroxycodone	2.930	27320	195.20	44.2	782.50	83527	10.2341 ng/ml
O-desmethyl-tramadol	3.381	328018	44940.90	6.3	393.19	1758921	9.9864 ng/ml
Oxazepam	5.751	2524	19.28	67.4	20.37	15226	10.4881 ng/ml
Oxycodone	2.874	72256	1951.31	31.3	445.93	333494	9.9669 ng/ml
Oxymorphone	1.417	17787	251.37	48.9	278.58	67078	9.8256 ng/ml
Phentermine	3.805	24715	237.71	3.1	28.94	265677	10.6635 ng/ml
Promethazine	5.589	16489	89.51	30.8	291.71	75529	9.9815 ng/ml
Quetiapine	5.551	32801	5056.75	55.6	766.98	41283	10.0490 ng/ml
Sertraline	5.804	3522	152.24	92.1	278.92	15670	10.5696 ng/ml
Temazepam	5.818	28014	181.13	31.0	60.13	150238	10.0116 ng/ml
Tramadol	4.273	286980	4126.03	3.3	132.48	1432197	10.1386 ng/ml
Trazodone	5.113	24324	1355.06	76.0	41270.52	97752	9.8783 ng/ml
Venlafaxine	5.068	143219	301.22	36.6	849.04	785415	9.8679 ng/ml
Zolpidem	4.891	234312	53651.14	32.9	11200.70	1156001	10.0387 ng/ml

AM #28 Multi-Drug Quant. Results



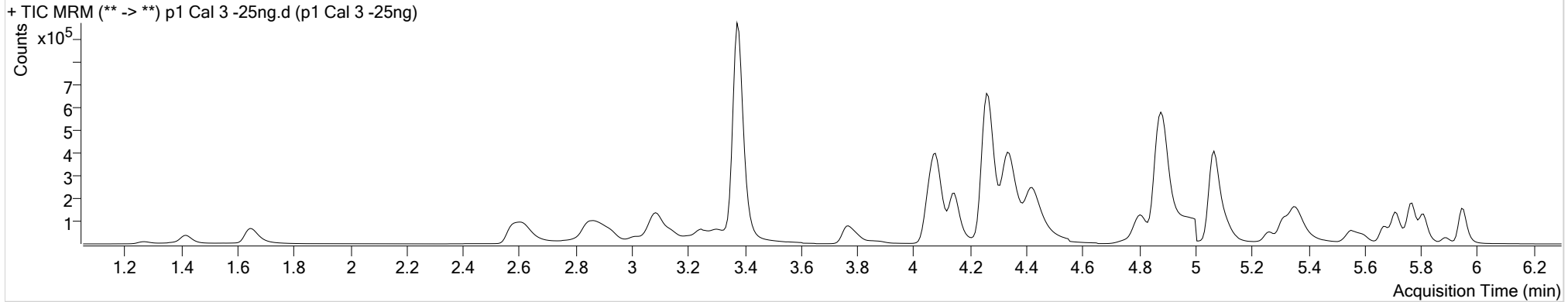
Batch results
Calibration Last Update

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9/18/2019 8:54:35 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-C5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 2:02:26 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	5625	∞	77.0	∞	52917	2.4116 ng/ml
7-aminoclonazepam	4.258	51249	3201.01	80.3	∞	89201	27.0327 ng/ml
a-hydroxyalprazolam	5.693	4699	174.09	70.6	138.98	11013	24.8031 ng/ml
alpha-PVP	4.431	247894	11601.51	49.7	3024.11	460759	24.9662 ng/ml
Alprazolam	5.770	115030	∞	109.5	1203.62	147779	23.9850 ng/ml
Amphetamine	3.095	130384	1212.82	56.3	16731.50	76632	27.1084 ng/ml
Benzoyllecgonine	3.880	7489	11990.57	7.6	359.66	14056	24.1582 ng/ml
Buprenorphine	5.740	543	∞	15.9	349.43	8434	0.5772 ng/ml
Bupropion	4.813	138467	∞	58.0	∞	200321	25.1187 ng/ml
Carisoprodol	5.719	68031	747.52	56.5	274.56	134691	25.1864 ng/ml
Citalopram	5.262	46575	∞	41.8	862.24	89204	24.6861 ng/ml
Clonazepam	5.607	12517	5255.02	32.5	2606.46	8780	25.5613 ng/ml
Cocaine	4.338	309193	33201.23	44.5	12985.28	1019373	24.5076 ng/ml
Codeine	2.630	37017	273.90	109.2	2972.60	71482	24.8948 ng/ml
Cyclobenzaprine	5.664	10297	602.30	12.3	11.72	18868	24.7512 ng/ml
Dextromethorphan	5.360	21178	577.97	79.1	∞	40190	25.3088 ng/ml
Dextrorphan	4.147	65823	910.15	208.6	12029.26	341005	24.3995 ng/ml
Diazepam	5.955	89788	894.91	85.6	569.01	166001	25.5830 ng/ml

AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.615	110474	10899.19	67.3	3736.14	247869	26.7504 ng/ml
Diphenhydramine	5.360	113432	3313.60	32.4	1463.16	309128	24.9836 ng/ml
EDDP	5.318	94029	1689.25	42.6	124.92	207715	24.7285 ng/ml
Fentanyl	5.099	1381	∞	85.3	5709.84	33937	2.3251 ng/ml
Fluoxetine	5.729	9486	396.37	8.3	∞	15791	25.0417 ng/ml
Hydrocodone	3.099	85938	274.95	33.5	227.69	220644	24.7987 ng/ml
Hydromorphone	1.654	76024	∞	75.2	1179.68	116415	24.1258 ng/ml
Ketamine	4.074	275234	12996.37	37.4	681.18	505013	25.6448 ng/ml
Lamotrigine	4.288	24979	5149.50	78.8	4516.54	505013	25.2598 ng/ml
Lorazepam	5.741	5221	133.75	44.6	27.97	8780	28.6481 ng/ml
Meprobamate	4.902	20176	3830.61	27.2	661.75	40050	23.9201 ng/ml
Methadone	5.674	40166	205.35	55.7	110.63	82005	24.4227 ng/ml
Methamphetamine	3.315	160349	1472.49	42.7	950.99	300004	26.8218 ng/ml
Metoprolol	4.340	58795	108037.59	93.5	∞	1363223	28.1024 ng/ml
Mirtazapine	4.771	91151	47.88	51.6	510.17	460759	24.9341 ng/ml
Mitragynine	5.227	6197	36876.14	39.3	4276.18	82005	24.2850 ng/ml
Morphine	1.273	17372	14393.21	20.7	2251.02	7409	26.1119 ng/ml
Nordiazepam	5.894	17508	2390.21	56.3	716.86	22774	25.7135 ng/ml
Norfentanyl	4.108	34231	∞	35.7	93.52	616228	2.3704 ng/ml
Norhydrocodone	3.100	4397	277.14	27.1	72.80	64895	22.1572 ng/ml
Noroxycodone	2.930	63968	387.75	45.8	773.97	82571	24.8290 ng/ml
O-desmethyl-tramadol	3.381	798632	1847.83	6.3	924.40	1760296	24.7852 ng/ml
Oxazepam	5.751	5922	32.33	78.8	17.13	14764	25.9520 ng/ml
Oxycodone	2.874	176926	5738.68	31.1	1482.42	332464	25.0934 ng/ml
Oxymorphone	1.417	44864	189.89	46.7	191.52	68010	25.3314 ng/ml
Phentermine	3.798	56910	216.63	3.0	45.12	259583	27.0795 ng/ml
Promethazine	5.589	24423	2339.60	30.9	1162.75	45868	24.3947 ng/ml
Quetiapine	5.551	71528	∞	57.6	3083.47	38342	24.2588 ng/ml
Sertraline	5.797	4055	71.55	95.6	397.14	7516	24.6997 ng/ml
Temazepam	5.811	68036	674.40	32.2	177.79	144578	25.4649 ng/ml
Tramadol	4.273	660753	∞	3.3	230.60	1363223	25.8487 ng/ml
Trazodone	5.113	52225	4902.52	75.8	∞	86931	23.3812 ng/ml
Venlafaxine	5.068	325213	2774.56	35.9	1163.98	708284	24.8894 ng/ml
Zolpidem	4.891	569980	35775.40	33.4	5889.45	1137483	25.7567 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\AM 28\091719 MDQ SP\QuantResults\MDQ.batch.bin

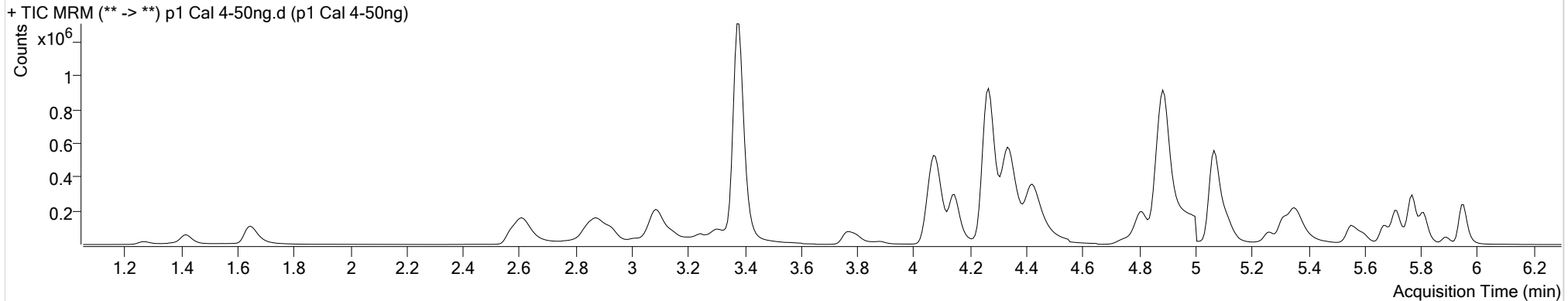
Calibration Last Update

9/18/2019 8:54:35 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-D5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 2:12:54 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	11734	2026.91	75.9	703.82	54320	4.8724 ng/ml
7-aminoclonazepam	4.258	104054	7468.57	82.7	249.37	93307	53.5633 ng/ml
a-hydroxyalprazolam	5.693	9371	242.42	68.2	299.39	11248	48.3518 ng/ml
alpha-PVP	4.431	481362	31316.46	52.3	6510.37	466307	48.0960 ng/ml
Alprazolam	5.770	234495	8716.30	106.6	2274.11	146353	48.3967 ng/ml
Amphetamine	3.095	234365	6088.17	56.2	48457.43	68831	55.8365 ng/ml
Benzoylcegonine	3.880	15875	864.37	8.2	1485.28	14709	49.0188 ng/ml
Buprenorphine	5.746	1272	121.08	16.6	555.65	7974	4.8257 ng/ml
Bupropion	4.813	267075	∞	58.0	17005.52	191110	51.5296 ng/ml
Carisoprodol	5.719	140096	1025.71	57.2	332.11	134935	51.9359 ng/ml
Citalopram	5.262	90403	957.62	41.8	2574.81	84915	50.1000 ng/ml
Clonazepam	5.600	25621	2494.44	33.2	∞	9513	48.6632 ng/ml
Cocaine	4.331	645841	12783.88	44.3	14042.24	1036492	50.7292 ng/ml
Codeine	2.623	77137	3064.76	106.3	5983.41	72667	51.2315 ng/ml
Cyclobenzaprine	5.664	22735	∞	11.4	12.39	21525	47.6944 ng/ml
Dextromethorphan	5.360	40876	3237.00	81.9	∞	39614	49.6650 ng/ml
Dextrorphan	4.147	131103	353.39	202.4	1393.61	327006	50.8936 ng/ml
Diazepam	5.955	187097	4968.87	85.0	3919.91	169289	52.8533 ng/ml

AM #28 Multi-Drug Quant. Results

5



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.608	229276	36924.47	67.6	178.10	257341	54.5167 ng/ml
Diphenhydramine	5.360	220117	9126.08	31.7	1819.83	294316	51.1252 ng/ml
EDDP	5.318	191096	3663.20	42.3	6868.63	207155	50.5401 ng/ml
Fentanyl	5.106	3042	∞	73.3	∞	35764	4.8213 ng/ml
Fluoxetine	5.722	22813	134.70	8.6	∞	18947	50.0281 ng/ml
Hydrocodone	3.092	184682	1337.09	38.2	818.08	235142	50.5341 ng/ml
Hydromorphone	1.654	160765	2472.64	73.2	∞	114854	51.9334 ng/ml
Ketamine	4.074	574146	33195.86	37.5	2751.31	524313	52.0624 ng/ml
Lamotrigine	4.288	50977	1679.25	78.3	4269.55	524313	49.8632 ng/ml
Lorazepam	5.741	10082	255.14	51.4	24.12	9513	53.1454 ng/ml
Meprobamate	4.902	40356	43747.25	27.2	992.09	38848	48.8446 ng/ml
Methadone	5.674	84765	3357.80	54.3	484.05	82625	51.1748 ng/ml
Methamphetamine	3.309	276345	435.71	41.9	995.24	262925	53.5336 ng/ml
Metoprolol	4.340	116479	∞	93.3	∞	1416430	54.9151 ng/ml
Mirtazapine	4.765	190110	61.91	51.9	47.59	466307	51.4042 ng/ml
Mitragynine	5.227	12383	34706.28	40.2	∞	82625	47.5135 ng/ml
Morphine	1.273	35357	5867.45	20.9	275.42	7477	53.2457 ng/ml
Nordiazepam	5.894	36736	1024.74	57.6	53523.48	24157	51.1862 ng/ml
Norfentanyl	4.108	69713	153.83	35.6	5143.39	628646	4.6768 ng/ml
Norhydrocodone	3.100	9499	94.44	29.1	117.32	67369	44.5433 ng/ml
Noroxycodone	2.930	132075	884.66	45.1	1530.84	82779	51.5922 ng/ml
O-desmethyl-tramadol	3.381	1688521	22954.73	6.3	5014.17	1815378	51.1718 ng/ml
Oxazepam	5.751	11187	135.69	75.4	32.77	14038	51.9636 ng/ml
Oxycodone	2.874	374061	7001.38	31.1	2374.96	343142	51.8433 ng/ml
Oxymorphone	1.417	89425	510.95	47.1	393.16	69316	50.1103 ng/ml
Phentermine	3.798	101447	1493.42	2.9	26.68	238260	53.9446 ng/ml
Promethazine	5.589	55986	∞	30.7	∞	51922	49.4374 ng/ml
Quetiapine	5.551	157032	27299.69	56.6	160829.56	39785	51.8761 ng/ml
Sertraline	5.797	10409	145.49	96.5	1639.25	9573	49.2895 ng/ml
Temazepam	5.811	139493	2062.37	31.1	341.54	148647	50.9110 ng/ml
Tramadol	4.273	1351645	3062.38	3.4	967.93	1416430	51.7943 ng/ml
Trazodone	5.113	117179	∞	75.2	91519.85	93871	48.2262 ng/ml
Venlafaxine	5.068	650540	633.37	35.9	10374.50	704970	50.0496 ng/ml
Zolpidem	4.891	1218309	33622.47	32.9	13105.74	1204425	52.6438 ng/ml

AM #28 Multi-Drug Quant. Results



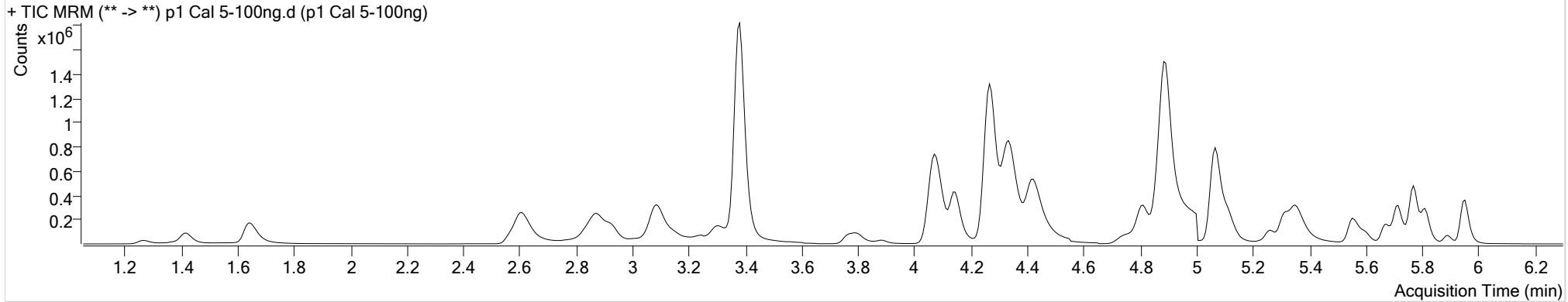
Batch results
Calibration Last Update

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Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-E5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 2:23:22 PM
Sample Info.

Data File p1 Cal 5-100ng.d
Sample p1 Cal 5-100ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.156	22113	725.22	76.4	369.81	51438	9.6692 ng/ml
7-aminoclonazepam	4.258	181535	22425.82	83.9	279.45	89763	98.0799 ng/ml
a-hydroxyalprazolam	5.693	19589	262.12	63.8	367.85	11064	102.6703 ng/ml
alpha-PVP	4.424	934206	23569.34	49.6	8964.35	444498	98.1402 ng/ml
Alprazolam	5.770	434027	6053.09	107.2	1711.33	135863	95.5786 ng/ml
Amphetamine	3.088	411269	4435.81	56.2	8311.88	68228	100.0694 ng/ml
Benzoylcegonine	3.880	31666	468.98	7.3	1277.95	15179	94.8259 ng/ml
Buprenorphine	5.740	1885	∞	17.9	1750.24	7176	9.4344 ng/ml
Bupropion	4.813	483230	24721.92	57.6	498.98	179341	100.0305 ng/ml
Carisoprodol	5.719	272328	∞	57.9	1224.30	138174	98.7289 ng/ml
Citalopram	5.262	168986	3442.16	43.2	12384.63	82533	96.1414 ng/ml
Clonazepam	5.600	55375	664.01	32.0	∞	10034	100.1631 ng/ml
Cocaine	4.331	1230923	28804.99	44.4	15111.46	1019951	98.5943 ng/ml
Codeine	2.623	139608	4022.91	106.4	9277.13	67000	100.7498 ng/ml
Cyclobenzaprine	5.664	37239	78.00	10.4	210.21	17699	94.7861 ng/ml
Dextromethorphan	5.353	75499	9723.23	81.9	5570.24	37381	97.3206 ng/ml
Dextrorphan	4.147	240577	33991.10	206.1	8893.29	314125	97.4023 ng/ml
Diazepam	5.955	336987	574.84	86.0	10255.72	160509	100.9034 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.601	418918	1001.72	67.9	14517.76	245149	105.5220 ng/ml
Diphenhydramine	5.360	411713	25533.05	31.8	6415.99	280884	100.3882 ng/ml
Doxylamine	4.940	780164	5274.83	100.7	2020.72	77556	329.2301 ng/ml
EDDP	5.318	382351	18706.53	42.6	405.58	212491	98.7191 ng/ml
Fentanyl	5.106	5055	55.13	83.4	7369.12	30856	9.2544 ng/ml
Fluoxetine	5.722	36363	257.69	9.2	391.44	15364	98.1902 ng/ml
Hydrocodone	3.085	348266	595.89	38.8	1376.46	220583	102.1088 ng/ml
Hydromorphone	1.648	298298	3123.91	72.0	3059.63	110419	100.4128 ng/ml
Ketamine	4.074	1088279	9562.17	37.6	9256.02	507143	102.5333 ng/ml
Lamotrigine	4.288	97111	9080.21	77.8	5157.44	507143	98.4164 ng/ml
Lorazepam	5.741	19449	961.27	47.7	74.10	10034	99.4207 ng/ml
Meprobamate	4.902	78436	60444.83	27.4	2293.32	39399	93.1937 ng/ml
Methadone	5.668	150538	4535.72	54.7	5649.95	76317	98.4131 ng/ml
Methamphetamine	3.309	497164	4485.63	42.2	1543.77	255608	99.7630 ng/ml
Metoprolol	4.340	200459	28881.24	94.1	5169.75	1334296	101.5418 ng/ml
Mirtazapine	4.758	359228	9956.74	54.4	211.53	444498	101.9157 ng/ml
Mitragynine	5.227	22750	812.20	38.3	49225.55	76317	93.8500 ng/ml
Morphine	1.266	63462	938.87	21.6	206.38	6970	103.0528 ng/ml
Norbuprenorphine	4.997	124	265.46	86.8	1003.34	722	9.2800 ng/ml
Nordiazepam	5.894	70175	∞	56.8	761.04	23664	100.1252 ng/ml
Norfentanyl	4.108	135512	15481.66	35.3	∞	606294	9.3698 ng/ml
Norhydrocodone	3.100	20232	165.37	30.5	∞	65523	95.8257 ng/ml
Noroxycodone	2.923	239786	3110.05	48.0	3781.92	77686	100.2105 ng/ml
O-desmethyl-tramadol	3.381	3083512	102546.34	6.4	7654.03	1721654	98.8517 ng/ml
Oxazepam	5.751	20865	250.25	70.7	76.19	13789	99.0293 ng/ml
Oxycodone	2.868	707676	13733.03	31.2	15806.37	338424	99.8348 ng/ml
Oxymorphone	1.417	167785	∞	47.0	1007.06	64664	101.3877 ng/ml
Phentermine	3.805	189057	1038.99	2.8	22.17	235390	103.0301 ng/ml
Promethazine	5.582	93193	355.74	29.7	379.14	43565	98.1126 ng/ml
Quetiapine	5.551	319520	5791.20	55.0	25938.56	40665	103.7581 ng/ml
Sertraline	5.797	16924	186.76	93.1	148.11	8275	92.2869 ng/ml
Temazepam	5.811	270934	4893.93	31.3	325.07	149995	98.1150 ng/ml
Tramadol	4.273	2472017	∞	3.3	313.46	1334296	101.4359 ng/ml
Trazodone	5.113	231219	648299.46	76.6	36298.95	94758	93.9535 ng/ml
Venlafaxine	5.068	1200153	31877.47	36.5	1007.21	669280	97.2842 ng/ml
Zolpidem	4.891	2309557	865.89	32.4	1537.71	1165367	103.7540 ng/ml

AM #28 Multi-Drug Quant. Results



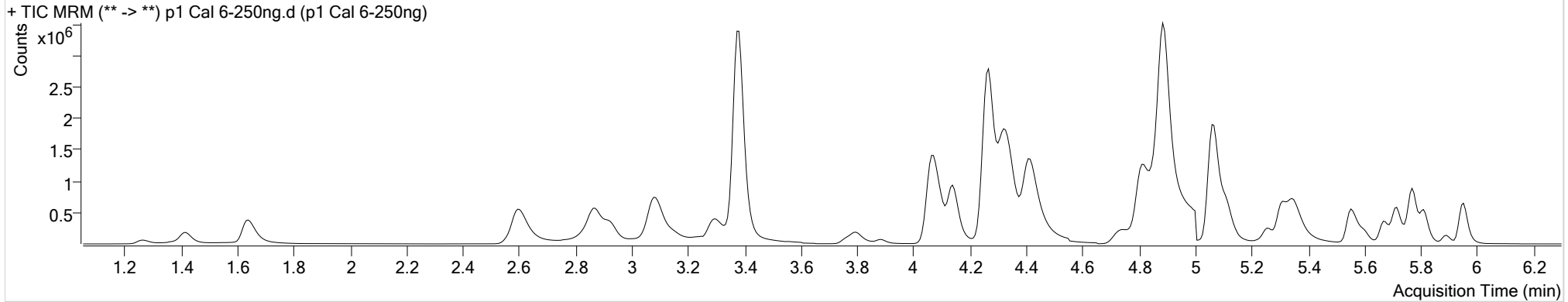
Batch results
Calibration Last Update

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9/18/2019 8:54:35 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-F5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 2:33:51 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.150	55228	3067.75	74.1	4138.03	50653	24.4814 ng/ml
7-aminoclonazepam	4.258	358124	7731.83	81.9	∞	79810	219.0310 ng/ml
a-hydroxyalprazolam	5.693	42918	395.47	67.8	1411.79	10320	241.0516 ng/ml
alpha-PVP	4.418	2817668	136087.36	50.1	59678.40	506313	260.2101 ng/ml
Alprazolam	5.770	896270	4091.39	106.5	8662.04	114055	233.7644 ng/ml
Amphetamine	3.088	1191826	7973.40	52.5	37060.96	78333	254.9991 ng/ml
Benzoylcegonine	3.880	79555	300.47	7.4	1169.67	13932	259.6896 ng/ml
Buprenorphine	5.746	4416	8338.69	13.1	865.16	6525	27.9254 ng/ml
Bupropion	4.813	1470715	125157.70	57.2	13398.55	217527	252.1016 ng/ml
Carisoprodol	5.719	590177	51481.92	57.4	2585.61	117718	251.3800 ng/ml
Citalopram	5.255	443749	10483.85	41.8	1109.98	83437	249.3657 ng/ml
Clonazepam	5.600	133279	1275.93	31.6	1135.53	9434	257.0562 ng/ml
Cocaine	4.318	3303681	95759.71	44.6	99137.53	1002465	269.8625 ng/ml
Codeine	2.617	316903	5680.31	101.6	30971.75	61336	250.1002 ng/ml
Cyclobenzaprine	5.664	100638	409.82	10.7	86.59	17610	257.0642 ng/ml
Dextromethorphan	5.346	195861	7860.03	82.2	5869.57	37417	252.4033 ng/ml
Dextrorphan	4.140	642961	19705.17	206.6	3567.66	326985	250.3912 ng/ml
Diazepam	5.955	716349	13801.95	84.2	1495.76	134099	257.5973 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.595	989535	66221.43	67.6	39869.77	238720	257.4562 ng/ml
Diphenhydramine	5.353	1109756	25630.99	31.7	526.19	299713	253.8932 ng/ml
Doxylamine	4.859	3496234	∞	51.4 Low	19759.58	662906	135.4922 ng/ml
EDDP	5.311	1191427	596.13	42.5	8546.44	263418	248.3590 ng/ml
Fentanyl	5.099	14444	3917.80	80.0	∞	31689	25.6888 ng/ml
Fluoxetine	5.722	84616	149276.52	8.4	2360.93	13880	252.6574 ng/ml
Hydrocodone	3.072	916155	4279.53	38.9	∞	228850	259.7027 ng/ml
Hydromorphone	1.641	729500	5296.76	71.7	∞	109862	247.0905 ng/ml
Ketamine	4.067	2698020	89751.01	37.8	1069.40	509090	254.0047 ng/ml
Lamotrigine	4.288	179752	5763.89	80.4	∞	509090	181.6562 ng/ml
Lorazepam	5.741	43117	1784.83	51.9	150.39	9434	238.0500 ng/ml
Meprobamate	4.908	160091	19273.63	27.8	8454.05	30484	245.0952 ng/ml
Methadone	5.668	407378	72286.29	54.4	6469.30	81035	250.8433 ng/ml
Methamphetamine	3.295	1268824	10320.27	45.5	23376.87	279853	233.6384 ng/ml
Metoprolol	4.340	500003	5045.35	95.9	18718.64	1454911	234.1699 ng/ml
Mirtazapine	4.744	970393	14408.86	50.3	3975.37	506313	241.7205 ng/ml
Mitragynine	5.227	59747	∞	37.7	∞	81035	231.1447 ng/ml
Morphine	1.266	144415	1327.66	21.0	193.19	6524	251.3881 ng/ml
Norbuprenorphine	4.997	335	134.51	97.8	2991.85	645	26.4575 ng/ml
Nordiazepam	5.894	158038	1748.82	58.0	826.02	21335	250.5938 ng/ml
Norfentanyl	4.108	377111	1164.51	36.5	243.35	643865	24.4636 ng/ml
Norhydrocodone	3.093	59710	1127.55	32.5	265.98	65460	280.2535 ng/ml
Noroxycodone	2.923	583804	1471.92	46.7	249.08	75114	252.9859 ng/ml
O-desmethyl-tramadol	3.381	7461778	79314.91	6.4	1275.98	1625773	253.8529 ng/ml
Oxazepam	5.744	46876	524.02	73.3	459.65	12779	240.6464 ng/ml
Oxycodone	2.868	1795063	28282.70	31.3	6124.62	341941	251.2687 ng/ml
Oxymorphone	1.417	399680	∞	47.0	905.54	60947	257.1584 ng/ml
Phentermine	3.798	506996	∞	2.9	402.67	265342	247.0894 ng/ml
Promethazine	5.582	259082	9650.87	29.4	4571.12	46981	252.9831 ng/ml
Quetiapine	5.551	862789	26800.08	55.5	25179.31	44644	255.9197 ng/ml
Sertraline	5.797	36347	∞	94.6	192.43	6305	259.2551 ng/ml
Temazepam	5.811	615448	33626.23	30.9	∞	134570	248.6215 ng/ml
Tramadol	4.267	6521455	53136.93	3.5	317.36	1454911	246.7393 ng/ml
Trazodone	5.113	624403	1147.75	76.3	4228.32	91835	261.2033 ng/ml
Venlafaxine	5.061	3717614	∞	35.7	15098.46	802566	251.3467 ng/ml
Zolpidem	4.884	5602279	232919.31	32.2	36095.77	1155105	254.8347 ng/ml

AM #28 Multi-Drug Quant. Results



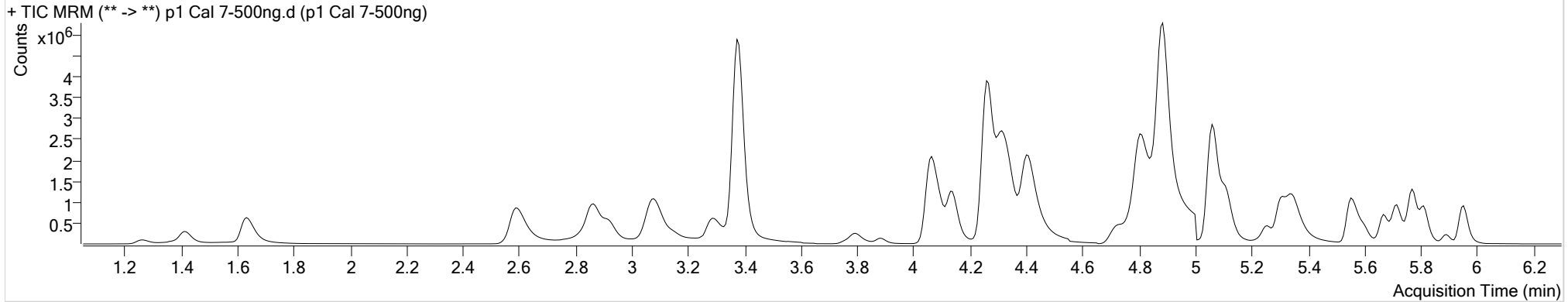
Batch results
Calibration Last Update

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Instrument Type Falco
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-G5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 2:44:20 PM
Sample Info.

Data File p1 Cal 7-500ng.d
Sample p1 Cal 7-500ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.150	95113	∞	74.9	∞	42389	50.3526 ng/ml
7-aminoclonazepam	4.251	520822	17899.76	81.2	13408.30	67763	375.9976 ng/ml
a-hydroxyalprazolam	5.693	77633	682.39	68.4	∞	8862	507.6658 ng/ml
alpha-PVP	4.411	4616668	188574.90	50.5	61080.39	431430	500.5416 ng/ml
Alprazolam	5.770	1391513	∞	107.9	∞	85421	483.6023 ng/ml
Amphetamine	3.088	1788647	∞	52.9	36867.80	65436	459.3758 ng/ml
Benzoylcegonine	3.880	164487	35556.44	7.4	∞	15824	472.8072 ng/ml
Buprenorphine	5.740	6341	187223.55	14.5	2001.59	5452	49.6253 ng/ml
Bupropion	4.806	2356360	121740.45	57.8	69801.80	173684	506.6097 ng/ml
Carisoprodol	5.719	964840	93527.82	57.4	19419.93	97975	493.9258 ng/ml
Citalopram	5.255	793323	8169.33	42.7	390.37	74680	497.8532 ng/ml
Clonazepam	5.600	253996	25231.25	32.2	783.28	9098	508.4329 ng/ml
Cocaine	4.311	5414103	53909.44	44.6	96188.87	866208	512.1464 ng/ml
Codeine	2.610	517440	11950.10	104.1	29718.30	51335	488.0996 ng/ml
Cyclobenzaprine	5.657	271426	∞	11.1	608.89	23866	511.3620 ng/ml
Dextromethorphan	5.339	387528	11499.29	81.9	5141.96	37609	496.9685 ng/ml
Dextrorphan	4.140	931146	16338.53	205.0	619.76	237926	498.5524 ng/ml
Diazepam	5.955	1087710	730.04	86.4	6425.96	110089	476.9138 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.588	1629205	54808.58	68.2	33562.47	218094	464.8118 ng/ml
Diphenhydramine	5.353	1988197	95024.18	32.2	7451.71	269080	506.8446 ng/ml
Doxylamine	4.920	2540376	13826.64	93.8	∞	191013	460.4125 ng/ml
EDDP	5.304	2121217	∞	42.1	301.50	230857	504.6928 ng/ml
Fentanyl	5.099	32748	9925.50	79.1	2154.51	35729	51.6234 ng/ml
Fluoxetine	5.722	233028	24125.05	8.7	243.23	19010	507.8732 ng/ml
Hydrocodone	3.065	1562668	5139.47	35.2	3069.24	205964	492.6554 ng/ml
Hydromorphone	1.634	1272093	∞	75.0	1412.90	92261	513.2808 ng/ml
Ketamine	4.067	4479451	1238.65	37.7	1239.01	442780	485.3552 ng/ml
Lamotrigine	4.281	250335	22913.92	81.1	5864.28	442780	291.0041 ng/ml
Lorazepam	5.741	81061	1321.00	50.9	203.34	9098	466.6451 ng/ml
Meprobamate	4.908	261528	519.51	27.8	23722.73	23764	513.1256 ng/ml
Methadone	5.668	805297	15120.32	54.8	11551.98	80237	500.8115 ng/ml
Methamphetamine	3.289	2102349	14549.33	41.7	176.50	208622	520.2993 ng/ml
Metoprolol	4.340	692127	33091.37	95.5	10498.72	1170237	404.0605 ng/ml
Mirtazapine	4.731	1723834	∞	51.0	∞	431430	503.9492 ng/ml
Mitragynine	5.220	124409	13440.13	37.9	4382.44	80237	485.3567 ng/ml
Morphine	1.266	238801	7656.54	21.5	208.76	5630	482.1998 ng/ml
Norbuprenorphine	4.997	627	76.27	83.0	1013.43	604	52.1072 ng/ml
Nordiazepam	5.894	269971	4085.40	57.0	13005.88	18489	494.3102 ng/ml
Norfentanyl	4.101	629890	1458.28	36.5	897.51	498465	52.7167 ng/ml
Norhydrocodone	3.086	96389	2160.17	34.5	720.57	51174	577.1594 ng/ml
Noroxycodone	2.916	930112	586.74	47.3	20177.02	60709	499.1102 ng/ml
O-desmethyl-tramadol	3.374	12235241	148747.31	6.5	2061.30	1354005	500.1266 ng/ml
Oxazepam	5.744	92292	2084.83	71.7	1027.62	12027	503.8785 ng/ml
Oxycodone	2.861	3170355	34564.03	31.8	7331.55	308464	492.3434 ng/ml
Oxymorphone	1.410	706677	3613.43	48.8	∞	57881	479.2801 ng/ml
Phentermine	3.798	764945	598.79	2.9	625.97	210540	471.1351 ng/ml
Promethazine	5.582	712019	61254.66	30.2	11146.48	63875	511.4007 ng/ml
Quetiapine	5.551	1687788	9063.23	57.1	3122.81	44450	503.2941 ng/ml
Sertraline	5.797	115952	∞	92.5	518.70	10428	499.6507 ng/ml
Temazepam	5.811	1086654	15583.90	30.9	1528.40	117406	503.2850 ng/ml
Tramadol	4.267	10025441	∞	3.6	2948.94	1170237	472.4350 ng/ml
Trazodone	5.113	1350958	766.10	77.6	182703.95	93925	552.1928 ng/ml
Venlafaxine	5.061	6040186	∞	35.5	43473.73	655669	499.8950 ng/ml
Zolpidem	4.884	9469165	164723.48	31.5	91150.23	1019721	488.5004 ng/ml

AM #28 Multi-Drug Quant. Results



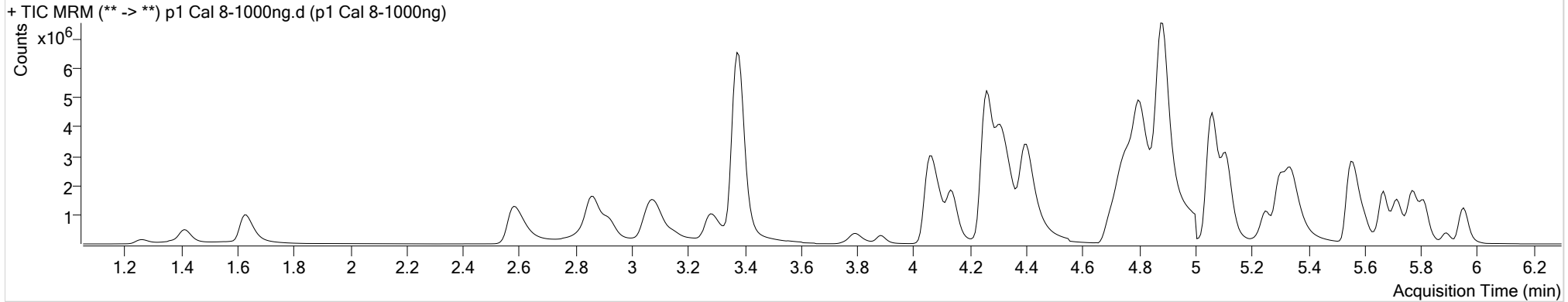
Batch results
Calibration Last Update

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9/18/2019 8:54:35 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 082219.m
Sample Position P1-H5
Injection Volume 2.5
Acq. Date-Time 9/17/2019 2:54:48 PM
Sample Info.

Data File p1 Cal 8-1000ng.d
Sample p1 Cal 8-1000ng
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.150	166915	512.72	73.7	13131.16	37209	100.6372 ng/ml
7-aminoclonazepam	4.251	603402	6742.34	83.9	11229.74	58824	502.1954 ng/ml
a-hydroxyalprazolam	5.693	135559	7336.76	69.3	434.82	7263	1081.5429 ng/ml
alpha-PVP	4.404	7624170	337020.44	50.4	54553.84	351342	1015.2581 ng/ml
Alprazolam	5.770	2076210	769.53	100.5	∞	59285	1038.6138 ng/ml
Amphetamine	3.088	2476239	∞	53.1	32360.24	49950	834.4338 ng/ml
Benzoylcegonine	3.880	367787	32427.87	7.3	616.80	16338	1024.0171 ng/ml
Buprenorphine	5.740	10445	2515.03	17.1	7564.67	4641	98.1892 ng/ml
Bupropion	4.806	3905995	74294.20	58.2	84983.58	147464	989.7888 ng/ml
Carisoprodol	5.719	1392237	127459.27	57.1	19264.93	71862	971.8543 ng/ml
Citalopram	5.249	2084720	84645.59	42.4	50204.02	97040	1006.5910 ng/ml
Clonazepam	5.600	469793	88533.65	31.8	16887.21	8928	958.6306 ng/ml
Cocaine	4.311	8263822	121972.03	47.5	184686.72	698640	969.5329 ng/ml
Codeine	2.610	804948	160462.22	99.8	22275.47	38602	1009.9808 ng/ml
Cyclobenzaprine	5.657	895200	∞	10.9	296.10	38664	1040.7995 ng/ml
Dextromethorphan	5.332	992942	10578.37	81.2	38568.13	47733	1003.3843 ng/ml
Dextrorphan	4.140	1400781	4419.06	206.5	∞	177903	1003.2511 ng/ml
Diazepam	5.955	1606548	23521.40	86.3	6177.86	84027	923.4036 ng/ml

AM #28 Multi-Drug Quant. Results

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Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.581	2638448	59673.29	68.9	46414.02	196893	834.6310 ng/ml
Diphenhydramine	5.346	4427934	79672.62	33.6	20687.85	307446	988.1216 ng/ml
Doxylamine	4.926	3481564	31479.70	99.5	4396.80	129161	1013.2841 ng/ml
EDDP	5.304	4516612	1427.33	42.3	1883.66	248665	997.8024 ng/ml
Fentanyl	5.099	91338	306.65	80.4	283.03	46997	109.4247 ng/ml
Fluoxetine	5.722	679598	17015.46	8.7	∞	28463	989.0928 ng/ml
Hydrocodone	3.058	2753140	∞	34.9	∞	179756	995.0452 ng/ml
Hydromorphone	1.634	2033081	938.99	75.7	807.00	77972	970.8372 ng/ml
Ketamine	4.061	7274094	2143.97	37.5	2432.31	376617	927.1037 ng/ml
Lamotrigine	4.281	287872	25535.11	81.0	∞	376617	393.5051 ng/ml
Lorazepam	5.741	166290	3387.28	51.5	798.80	8928	978.3795 ng/ml
Meprobamate	4.908	380203	229742.42	28.0	19895.56	14302	1238.8150 ng/ml
Methadone	5.668	2126081	82619.56	53.7	20825.64	104779	1012.5353 ng/ml
Methamphetamine	3.282	3003741	31103.07	42.2	15624.55	178308	870.3094 ng/ml
Metoprolol	4.340	922204	77257.45	95.5	7436.10	824023	765.8909 ng/ml
Mirtazapine	4.710	4310995	50561.24	50.9	∞	351342	1547.6009 ng/ml
Mitragynine	5.220	348839	29537.93	37.8	5388.52	104779	1041.4057 ng/ml
Morphine	1.260	385847	14061.38	21.5	1145.33	4724	929.1521 ng/ml
Norbuprenorphine	4.997	1381	3929.69	96.3	6968.09	708	97.1552 ng/ml
Nordiazepam	5.894	463598	1518.63	57.3	883.40	16013	980.3881 ng/ml
Norfentanyl	4.101	1106071	41468.83	37.0	31411.95	403480	114.2963 ng/ml
Norhydrocodone	3.086	152258	326.11	34.7	496.87	36639	1271.6440 ng/ml
Noroxycodone	2.916	1413961	∞	47.9	585.25	48358	952.9291 ng/ml
O-desmethyl-tramadol	3.374	19194686	∞	6.6	51090.67	1082271	981.9247 ng/ml
Oxazepam	5.744	187881	2385.09	72.3	492.38	13022	947.7348 ng/ml
Oxycodone	2.854	5880395	74328.27	31.4	3681.68	288406	977.1291 ng/ml
Oxymorphone	1.410	1299905	1116.16	47.1	1497.14	51273	995.8873 ng/ml
Phentermine	3.798	1170190	∞	2.9	1186.81	174982	868.3966 ng/ml
Promethazine	5.576	2514212	123626.23	29.9	48016.04	113741	1014.1572 ng/ml
Quetiapine	5.551	4180630	55457.78	57.2	119075.78	60150	921.6759 ng/ml
Sertraline	5.797	373845	∞	91.8	∞	16804	999.1942 ng/ml
Temazepam	5.811	1805350	2866.00	31.1	935.87	99689	984.8763 ng/ml
Tramadol	4.260	14737229	∞	3.5	320.92	824023	987.2699 ng/ml
Trazodone	5.113	3758384	9083.16	77.6	512649.42	117590	1226.6399 ng/ml
Venlafaxine	5.061	10162501	1621252.06	35.7	1892.72	550659	1001.4815 ng/ml
Zolpidem	4.884	15512931	529844.34	31.7	45763.10	913489	893.8856 ng/ml