








REVIEWED

By Sarah Pickle at 8:29 am, Jan 02, 2020



12/31/2019

Worklist: 3919

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-2349	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2361	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2401	6	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	
C2019-2403	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2428	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2429	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-2432	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	

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

Extraction Date 12/30/19 Analyst: Anne Nord
Plate lot#: 190729 (part IDP-111) Plate Expiration: 1/29/20

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: 19H52275 **Urine Blank lot:** 11719

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

LCMS-QQQ ID: 69679

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. Urine hydrolysis pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette 250µL blood (calibrated pipette) Pipette ID: 1926134 or 250µL hydrolyzed urine in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 66759*
- 4. Pipette 250µL 0.5M ammonium hydroxide in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer 300µL of blood+base/urine+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: 66792*
- 8. Wait 5 minutes.
- 9. Add 900uL ethyl acetate.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 12. Add 900uL ethyl acetate.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- 15. Remove plate containing eluate. **Urine samples add 50 ul 1% HCl in MeOH,** Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID: 66819*
- 16. Reconstitute in 100µL 20% MeOH and heat seal plate with foil.

Post-Analytic

- 1. Create batch and process data.
- 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? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: Limited curve ranges: buprenorphine 1-100, lamotrigine 5-500, Meprobamate 5-500, mitragynine 5-500
Norbuprenorphine 2.5-100, norhydrocodone 25-1000



Toxicology AM method 25 urine external control prep
working solution 10000 ng/ml in meoh Hydromorphone, Hydrocodone, Nortriptyline, Sertraline
Stock solution 1mg/ml 100 ul each in 9600ul meOH

ppd 5/20/19: Exp: 5/20/20 lot 52020 by baw

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Hydrocodone	FE09091505	9/1/2020
nortriptyline	FN06191503	8/1/2020
sertraline	FN01081501	3/1/2020

AM 25 control 30 ul working solution (52020) in 270 ul negative urine

ppd 10/7/19, exp 3/1/20 lot 10719 negative urine lot 8919 by AMN

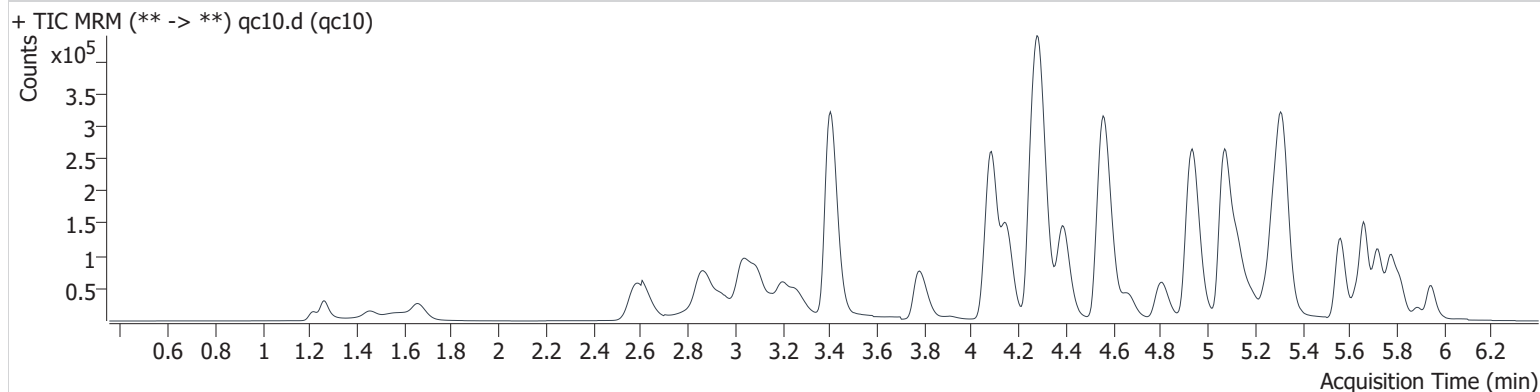
Concentration 100ng/ml hydrocodone, nortriptyline, sertraline, hydromorphone

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** qc10.d
Type QC **Sample** qc10
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-A2 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 9:42:26 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	2148	514.5	80.4	432.1	62402	0.994 ng/ml
7-aminoclonazepam	4.297	25836	894.6	84.7	64.2	113651	10.050 ng/ml
a-hydroxyalprazolam	5.704	1874	1682.6	57.9	447.4	10087	10.176 ng/ml
alpha-PVP	4.397	81615	1485.0	53.6	658.2	362702	9.688 ng/ml
Alprazolam	5.777	32186	628.5	109.4	2640.3	111479	10.149 ng/ml
Amphetamine	3.101	91185	1560.2	52.6	193.6	174403	10.464 ng/ml
Benzoylcegonine	3.916	5102	2127.9	9.7	690.2	7642	11.119 ng/ml
Buprenorphine	5.785	425	195.5	18.1	62.4	18304	0.927 ng/ml
Bupropion	4.819	38786	999.7	54.0	1135.9	152092	9.645 ng/ml
Carisoprodol	5.728	25178	19818.1	57.3	324.0	117665	10.007 ng/ml
Citalopram	5.256	34789	2224.6	43.0	12007.8	152101	9.939 ng/ml
Clonazepam	5.622	4448	145.3	34.0	1169.4	8256	9.404 ng/ml
Cocaine	4.296	74586	3138.0	45.7	3255.7	598643	9.925 ng/ml
Codeine	2.638	12599	94.2	108.5	1849.4	62011	10.364 ng/ml
Cyclobenzaprine	5.635	23722	26098.5	8.6	102.7	88873	10.416 ng/ml
Dextromethorphan	5.300	21616	1140.4	75.9	134.2	100674	10.312 ng/ml
Dextrorphan	4.151	29713	1213.6	216.6	2253.7	335502	10.109 ng/ml
Diazepam	5.947	20784	11250.0	88.8	1136.9	99952	9.955 ng/ml
Dihydrocodeine	2.611	33413	530.6	65.5	5108.4	189565	10.081 ng/ml
Diphenhydramine	5.327	105076	1832.7	34.1	2072.1	568354	10.234 ng/ml
Doxylamine	4.574	219042	2013.3	96.8	1980.0	923213	10.051 ng/ml
EDDP	5.295	34274	474.9	235.5	2829.5	389683	9.919 ng/ml
Fentanyl	5.127	2759	2198.0	76.9	202.4	137690	1.022 ng/ml
Fluoxetine	5.715	23118	729.2	9.1	1721.1	86670	10.784 ng/ml
Hydrocodone	3.068	33140	1697.8	39.7	329.5	200120	9.598 ng/ml
Hydromorphone	1.663	31091	904.3	82.9	109.6	131661	8.695 ng/ml
Ketamine	4.087	71731	700.2	36.4	150.1	339888	10.190 ng/ml
Lamotrigine	4.324	7382	307.8	88.9	2069.8	73462	10.168 ng/ml
Lorazepam	5.750	2212	325.7	49.3	17.7	111479	12.281 ng/ml
Meprobamate	4.942	15583	75.0	28.9	196.1	73462	10.206 ng/ml
Methadone	5.664	55010	2785.6	47.3	1323.5	270211	10.120 ng/ml
Methamphetamine	3.269	62298	39.9	35.7	68.4	182871	6.060 ng/ml
Metoprolol	4.354	19622	432.8	90.8	1137.2	339888	10.868 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Mirtazapine	4.666	78909	2328.6	45.1	220.6	131661	9.629 ng/ml	
Mitragynine	5.260	6799	65.6	36.7	2883.4	152101	8.289 ng/ml	
Morphine	1.217	6430	∞	21.5	429514.3	8335	9.418 ng/ml	
Norbuprenorphine	5.029	81	45.6	86.6 Low	30.0	3810	0.815 ng/ml	OCR ★
Nordiazepam	5.897	8712	4714.3	59.2	1470.8	28465	10.289 ng/ml	
Norfentanyl	4.112	12520	187.4	41.2	223.1	563279	0.973 ng/ml	
Norhydrocodone	3.110	1522	22.0	46.3	175.7	59932	21.121 ng/ml	OCR ★
Noroxycodone	2.956	25696	305.2	42.1	132.4	94928	9.691 ng/ml	
O-desmethyl-tramadol	3.410	184972	7484.9	6.4	516.4	968318	10.320 ng/ml	
Oxazepam	5.758	2774	63.2	82.9	20.7	16304	9.063 ng/ml	
Oxycodone	2.889	68030	723.0	29.4	1138.8	314670	10.300 ng/ml	
Oxymorphone	1.460	14744	47477.8	41.8	211.8	56861	9.353 ng/ml	
Phentermine	3.813	24850	92.0	6.1	48.6	279477	9.916 ng/ml	
Promethazine	5.563	39328	366.3	32.8	1226.6	172636	10.156 ng/ml	
Quetiapine	5.570	56938	2289.7	60.1	3998.6	78615	10.530 ng/ml	
Sertraline	5.783	10498	9464.4	106.9	3903.9	49991	9.737 ng/ml	
Temazepam	5.819	19578	462.6	27.3	34.1	91300	10.453 ng/ml	
Tramadol	4.278	193162	12082.8	3.4	103.2	960142	10.615 ng/ml	
Trazodone	5.194	54411	1301.2	80.0	2558.0	233913	10.019 ng/ml	
Venlafaxine	5.073	145693	4364.7	38.2	347.2	748477	10.340 ng/ml	
Zolpidem	4.955	178537	1315.1	29.9	11946.0	756706	10.064 ng/ml	

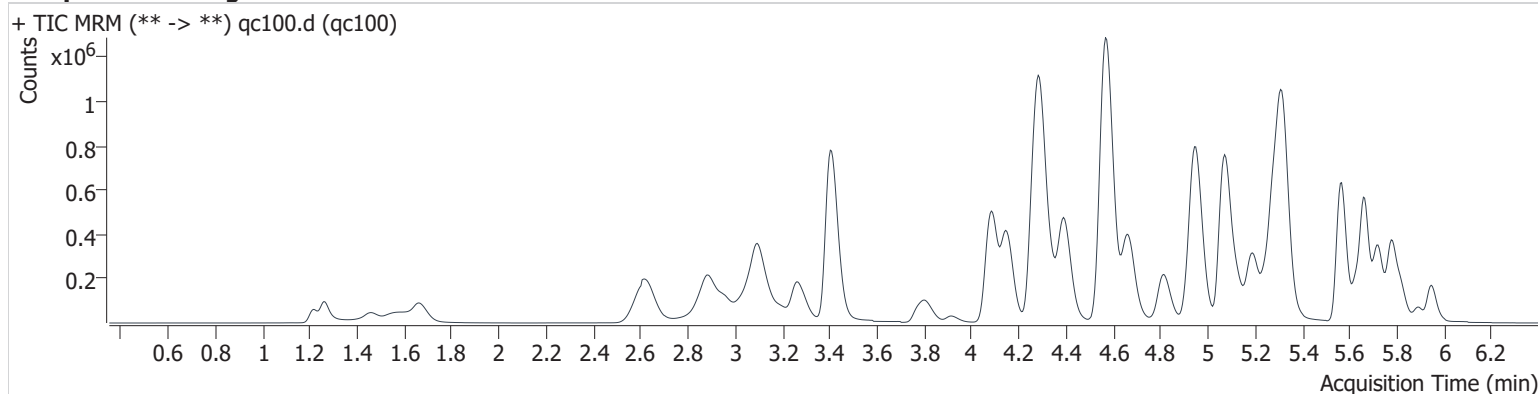
ocr = outside curve range

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** qc100.d
Type QC **Sample** qc100
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-B2 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 9:53:16 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	20439	2345.4	74.2	7334.8	62219	9.549 ng/ml
7-aminoclonazepam	4.302	213049	174.3	82.2	3649.8	99748	105.122 ng/ml
a-hydroxyalprazolam	5.704	15801	343.8	63.5	356.2	9141	96.426 ng/ml
alpha-PVP	4.397	781763	19660.5	53.5	1213.0	355611	99.842 ng/ml
Alprazolam	5.782	280479	204.6	109.6	3313.0	102624	96.852 ng/ml
Amphetamine	3.107	766442	5504.1	49.9	1772.0	158157	110.191 ng/ml
Benzoylcegonine	3.916	53862	62355.5	8.2	30.1	8233	106.360 ng/ml
Buprenorphine	5.780	5159	1616.0	18.2	683.4	19602	9.897 ng/ml
Bupropion	4.819	395110	1477.1	60.2	2960.1	170479	102.389 ng/ml
Carisoprodol	5.728	221368	224699.8	58.3	3918.7	106839	100.069 ng/ml
Citalopram	5.256	391693	553.1	45.5	28636.0	179203	96.989 ng/ml
Clonazepam	5.622	42913	1565.5	34.8	934.6	7947	102.070 ng/ml
Cocaine	4.296	696999	772913.5	45.6	9432.5	581879	96.567 ng/ml
Codeine	2.638	115909	213.1	103.7	7439.7	58687	103.696 ng/ml
Cyclobenzaprine	5.635	317243	263434.9	9.2	14464.3	130102	99.510 ng/ml
Dextromethorphan	5.300	248530	52261.0	75.5	67436.8	120120	100.558 ng/ml
Dextrorphan	4.151	293336	24022.9	218.5	42844.4	338171	100.615 ng/ml
Diazepam	5.947	188232	2120.7	87.6	2708.8	93229	100.284 ng/ml
Dihydrocodeine	2.606	325882	76401.6	64.7	13685.6	192774	104.568 ng/ml
Diphenhydramine	5.321	1207411	36518.9	34.5	22141.7	669406	98.144 ng/ml
Doxylamine	4.574	2253914	1169.7	95.8	2605.6	978634	99.737 ng/ml
EDDP	5.290	350814	1599.5	239.1	54917.4	412527	99.631 ng/ml
Fentanyl	5.132	35576	799.7	69.2	23300.1	178828	10.533 ng/ml
Fluoxetine	5.715	283629	1601.4	8.5	24740.9	118999	101.886 ng/ml
Hydrocodone	3.068	305998	∞	40.1	∞	194478	101.444 ng/ml
Hydromorphone	1.663	331828	2556.3	74.1	9395.1	130700	96.909 ng/ml
Ketamine	4.087	676822	6476.3	37.6	2825.8	339283	101.336 ng/ml
Lamotrigine	4.324	66565	994.7	88.4	1947.2	67155	107.674 ng/ml
Lorazepam	5.750	15428	770.5	55.3	167.6	102624	97.349 ng/ml
Meprobamate	4.937	129367	228304.9	28.6	4039.0	67155	102.742 ng/ml
Methadone	5.664	679308	1258.7	48.0	8089.8	344104	97.887 ng/ml
Methamphetamine	3.269	382793	565.1	41.0	249.8	150438	109.720 ng/ml
Metoprolol	4.354	186832	2001.9	94.2	5757.4	339283	110.259 ng/ml



AM #28 Multi-Drug Quant. Results

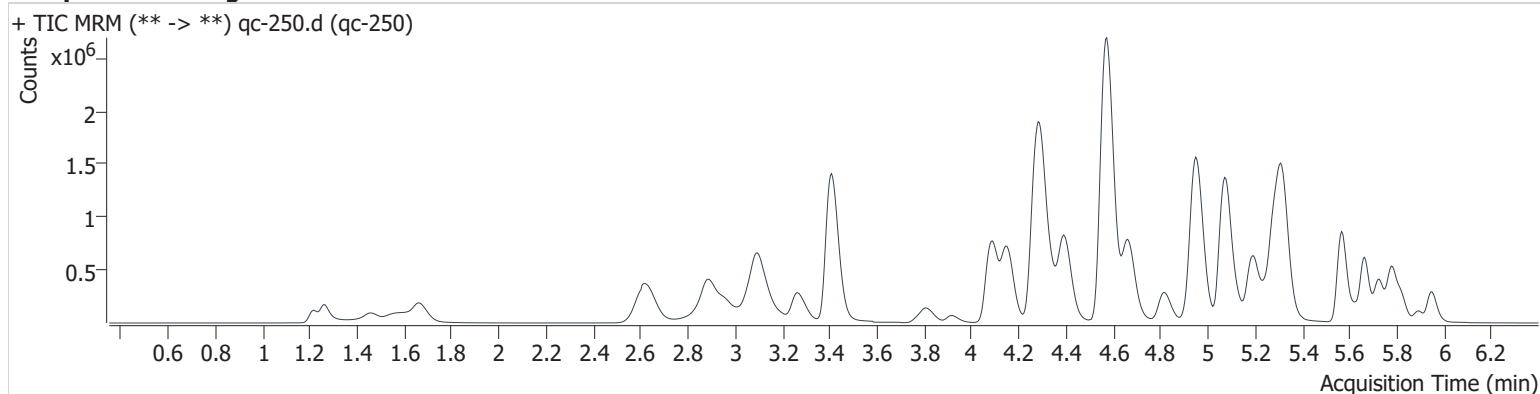
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	893672	1102.3	45.9	13523.7	130700	87.279 ng/ml
Mitragynine	5.260	84131	127355.1	38.7	25038.0	179203	93.720 ng/ml
Morphine	1.217	57632	∞	20.7	∞	7540	100.941 ng/ml
Norbuprenorphine	5.024	809	38.5	101.2	108.4	4291	10.454 ng/ml
Nordiazepam	5.897	77171	11281.1	61.9	2458.4	26236	104.109 ng/ml
Norfentanyl	4.112	123459	20062.1	40.4	1627.7	566872	9.889 ng/ml
Norhydrocodone	3.110	24726	1165.6	41.7	1099.1	64011	91.414 ng/ml
Noroxycodone	2.962	231689	946.7	43.1	220.5	89840	101.624 ng/ml
O-desmethyl-tramadol	3.410	1798627	109642.6	6.5	1463.3	972692	97.991 ng/ml
Oxazepam	5.758	20864	14151.9	72.5	314.0	12291	101.099 ng/ml
Oxycodone	2.884	639719	4373.9	30.3	7678.6	314115	104.583 ng/ml
Oxymorphone	1.460	133189	791.4	43.8	7276.0	54939	102.627 ng/ml
Phentermine	3.813	226875	413.7	5.5	294.2	258556	103.501 ng/ml
Promethazine	5.563	512160	417556.9	32.3	1565.1	238466	98.015 ng/ml
Quetiapine	5.565	609460	25128.3	60.3	1692.6	87909	106.685 ng/ml
Sertraline	5.782	124668	2680.6	101.5	77827.2	60010	98.669 ng/ml
Temazepam	5.824	169773	3145.0	29.7	652.3	83019	100.059 ng/ml
Tramadol	4.273	1781672	93802.0	3.4	1321.0	976261	105.980 ng/ml
Trazodone	5.194	619165	1708.4	80.1	30798.5	281073	100.057 ng/ml
Venlafaxine	5.073	1441016	88713.2	38.0	1365.4	763259	96.497 ng/ml
Zolpidem	4.949	1751546	104567.3	30.0	3008.8	763986	102.151 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument	69679	Data File	qc-250.d
Type	QC	Sample	qc-250
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-C2	Comment	
Injection Volume	2		
Acq. Date-Time	12/30/2019 10:04:04 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	48406	1211.6	73.3	57295.0	54790	25.693 ng/ml
7-aminoclonazepam	4.297	361536	10557.3	81.9	258.3	73324	244.342 ng/ml
a-hydroxyalprazolam	5.704	36131	2471.0	61.0	1189.4	8479	238.018 ng/ml
alpha-PVP	4.397	1564675	407665.5	52.9	11706.1	290869	245.166 ng/ml
Alprazolam	5.782	600462	1246.4	109.0	1371.7	84822	251.006 ng/ml
Amphetamine	3.101	1460487	1855.9	51.1	5268.2	133735	250.319 ng/ml
Benzoylcegonine	3.916	133327	193990.3	8.3	10257.2	7938	272.597 ng/ml
Buprenorphine	5.780	6275	4457.4	16.8	176.9	9355	25.132 ng/ml
Bupropion	4.819	578665	7893.4	60.7	2420.6	106326	242.889 ng/ml
Carisoprodol	5.728	505610	709787.6	57.7	5571.6	98251	249.079 ng/ml
Citalopram	5.256	589299	2804.4	45.2	222640.6	107423	243.777 ng/ml
Clonazepam	5.622	109215	1706.9	34.3	23055.0	7525	275.804 ng/ml
Cocaine	4.296	1492677	155046.0	45.5	87676.1	492964	244.310 ng/ml
Codeine	2.638	243801	833.3	103.7	808.1	49089	261.274 ng/ml
Cyclobenzaprine	5.635	166624	4627.6	9.0	1305.9	28241	241.534 ng/ml
Dextromethorphan	5.300	300383	48164.8	75.9	19112.5	58656	249.098 ng/ml
Dextrorphan	4.151	631626	3781.8	217.8	24690.4	283864	258.382 ng/ml
Diazepam	5.952	403517	3890.0	87.8	8388.5	79801	251.781 ng/ml
Dihydrocodeine	2.606	717688	44708.2	64.3	44490.6	177708	251.089 ng/ml
Diphenhydramine	5.327	1914395	78438.8	33.6	631.3	425635	244.443 ng/ml
Doxylamine	4.574	5199319	7905.8	96.1	251994.9	902179	249.944 ng/ml
EDDP	5.290	770655	1504.5	235.9	40136.4	353549	256.047 ng/ml
Fentanyl	5.132	33248	47776.9	70.9	13331.4	68360	25.813 ng/ml
Fluoxetine	5.715	86815	1510.0	8.8	2449.5	14913	249.848 ng/ml
Hydrocodone	3.068	696987	∞	39.3	∞	175387	258.056 ng/ml
Hydromorphone	1.663	763585	2118.1	74.5	7256.9	119061	245.339 ng/ml
Ketamine	4.087	1428315	6393.4	37.7	627.4	289362	251.620 ng/ml
Lamotrigine	4.330	134743	851.1	88.9	931.8	58532	251.165 ng/ml
Lorazepam	5.750	31238	5375.3	57.1	266.9	84822	239.425 ng/ml
Meprobamate	4.937	258228	211508.1	28.9	470.2	58532	236.899 ng/ml
Methadone	5.664	927736	29592.8	48.3	71100.9	187934	244.732 ng/ml
Methamphetamine	3.269	601316	1152.2	40.5	157.6	102461	266.076 ng/ml
Metoprolol	4.354	379471	1774.7	97.3	3799.1	289362	263.645 ng/ml



AM #28 Multi-Drug Quant. Results

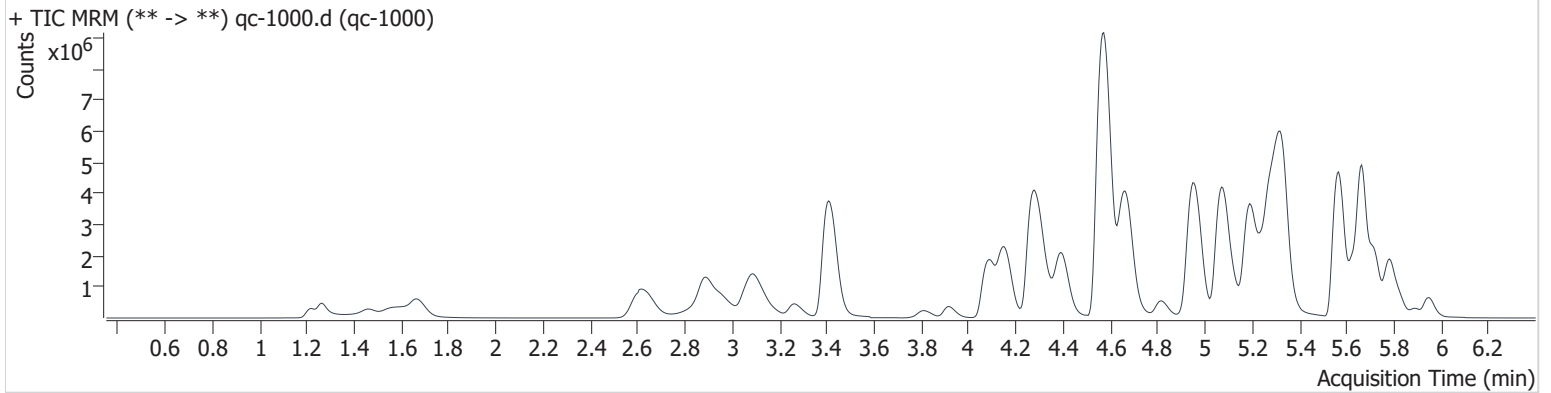
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	1750073	1098.2	45.6	71874.1	119061	185.134 ng/ml
Mitragynine	5.260	85499	443.2	38.4	459.9	107423	159.374 ng/ml
Morphine	1.217	126935	∞	20.4	∞	6657	253.102 ng/ml
Norbuprenorphine	5.024	1090	234.5	107.4	1068.6	2449	25.255 ng/ml
Nordiazepam	5.897	162761	17150.2	61.6	118274.2	23143	249.761 ng/ml
Norfentanyl	4.117	281773	1062.6	40.4	6133.4	506429	25.325 ng/ml
Norhydrocodone	3.115	65755	1222.8	41.2	1064.8	58069	236.739 ng/ml
Noroxycodone	2.962	498546	1462.1	42.8	297.3	77029	256.687 ng/ml
O-desmethyl-tramadol	3.410	4188768	171633.5	6.4	14134.0	887837	249.678 ng/ml
Oxazepam	5.758	41582	1147.3	74.4	1038.9	8993	277.443 ng/ml
Oxycodone	2.889	1471282	2536.4	29.8	2100.0	289433	262.382 ng/ml
Oxymorphone	1.455	322980	17069.2	45.2	546698.9	52616	262.642 ng/ml
Phentermine	3.813	430967	699.2	5.6	684.8	203548	250.640 ng/ml
Promethazine	5.563	257954	89089.1	32.3	3090.0	48340	243.928 ng/ml
Quetiapine	5.565	1341317	2117.6	59.6	898008.6	76025	272.558 ng/ml
Sertraline	5.782	26485	17947.4	101.4	21444.7	5183	243.071 ng/ml
Temazepam	5.824	377158	4614.8	29.7	625.3	72471	254.706 ng/ml
Tramadol	4.277	3910000	483608.5	3.4	3998.9	880264	259.666 ng/ml
Trazodone	5.194	1311767	86805.9	79.5	199.9	236452	252.912 ng/ml
Venlafaxine	5.073	3216804	143322.1	38.3	1992.2	674063	243.251 ng/ml
Zolpidem	4.954	4055601	153913.4	29.6	273906.0	711295	254.790 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** qc-1000.d
Type QC **Sample** qc-1000
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-D2 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 10:14:51 PM
Sample Info.

Sample Chromatogram




Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	177316	1961.6	73.1	6519.7	45903	112.360 ng/ml
7-aminoclonazepam	4.302	420231	262.2	82.5	8494.9	25336	824.960 ng/ml
a-hydroxyalprazolam	5.704	90617	1022.2	59.0	1174.5	4838	1046.970 ng/ml
alpha-PVP	4.397	4456770	397778.5	52.5	213001.2	200628	1014.273 ng/ml
Alprazolam	5.782	1528638	7863.3	109.1	1502.3	53403	1015.239 ng/ml
Amphetamine	3.107	2773843	15533.6	51.5	29111.5	73327	871.016 ng/ml
Benzoylcegonine	3.916	754301	540838.1	8.2	67816.4	8624	1418.365 ng/ml
Buprenorphine	5.785	37705	18911.2	15.6	334.2	13774	102.379 ng/ml
Bupropion	4.819	1063835	459004.9	61.2	13555.0	45553	1048.260 ng/ml
Carisoprodol	5.733	966715	329027.2	58.8	1518.8	43568	1075.164 ng/ml
Citalopram	5.246	3721214	276943.1	44.9	487.2	170764	969.071 ng/ml
Clonazepam	5.617	188307	153023.1	35.3	74882.1	4330	828.159 ng/ml
Cocaine	4.302	4069778	132324.6	45.3	1036.5	332329	988.490 ng/ml
Codeine	2.643	682531	579.7	102.8	874.5	35613	1009.186 ng/ml
Cyclobenzaprine	5.630	3544377	2421.1	9.1	24638.1	144355	1006.854 ng/ml
Dextromethorphan	5.300	2060242	58915.3	74.7	241718.3	99558	1006.999 ng/ml
Dextrorphan	4.156	2515468	828875.3	219.7	219063.5	280841	1040.645 ng/ml
Diazepam	5.952	1042113	31395.2	87.7	23449.9	53314	974.478 ng/ml
Dihydrocodeine	2.601	2179848	1771.5	64.6	892.7	163233	832.378 ng/ml
Diphenhydramine	5.332	10868883	3182.2	33.1	132131.6	563052	1048.466 ng/ml
Doxylamine	4.574	20058275	4688.2	96.3	584784.1	885842	982.763 ng/ml
EDDP	5.290	3303167	6128.7	242.8	39533.8	384332	1010.825 ng/ml
Fentanyl	5.132	608419	2233.6	75.3	523372.0	287366	112.514 ng/ml
Fluoxetine	5.715	3159019	19946.7	8.4	191406.4	131108	1036.323 ng/ml
Hydrocodone	3.063	2454883	∞	39.3	∞	165671	965.500 ng/ml
Hydromorphone	1.668	2899120	5699100.4	74.1	3538775.7	92865	1195.599 ng/ml
Ketamine	4.086	4574374	521096.6	37.1	3100.8	247587	943.445 ng/ml
Lamotrigine	4.330	251453	553.0	88.7	6014.5	41481	662.738 ng/ml ocr A
Lorazepam	5.750	77490	70439.5	58.3	1102.0	53403	945.285 ng/ml
Meprobamate	4.927	536003	386526.2	28.7	686.3	41481	696.256 ng/ml ocr A
Methadone	5.664	9007945	166808.2	45.9	540380.8	436818	1022.258 ng/ml
Methamphetamine	3.269	909950	272.3	41.4	543.9	43908	964.800 ng/ml
Metoprolol	4.354	930683	3309.1	97.0	90703.0	247587	757.155 ng/ml

qc-1000

Generated at 3:29 PM on 12/31/2019

OCR = outside curve range

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	10647514	12542.9	44.9	3475.0	92865	1429.341 ng/ml
Mitragynine	5.255	868445	100261.1	38.7	598914.7	170764	1022.130 ng/ml ocr 
Morphine	1.222	365605	∞	21.4	∞	5009	971.247 ng/ml
Norbuprenorphine	5.024	10103	10255.6	101.3	6601.2	5717	101.429 ng/ml
Nordiazepam	5.897	408777	448872.3	61.9	6318.9	14251	1020.562 ng/ml
Norfentanyl	4.112	740725	834.9	40.3	6781.3	340597	99.105 ng/ml
Norhydrocodone	3.115	253229	9750.6	41.7	1707.3	46859	1068.801 ng/ml
Noroxycodone	2.962	1612650	1674.1	41.7	∞	62743	1022.607 ng/ml
O-desmethyl-tramadol	3.410	14372714	216190.6	6.1	82710.5	732283	1037.996 ng/ml
Oxazepam	5.758	96364	5712.7	74.8	1856.1	5523	1050.258 ng/ml
Oxycodone	2.884	5474963	∞	29.9	1320.6	276314	1025.341 ng/ml
Oxymorphone	1.460	1127114	5053.9	45.0	983447.2	51202	946.561 ng/ml
Phentermine	3.813	884783	533.0	5.4	2464.0	112240	934.904 ng/ml
Promethazine	5.558	6953892	21417.9	30.6	1789366.3	311341	1021.839 ng/ml
Quetiapine	5.575	4473080	3839544.1	59.3	3429900.0	83959	824.436 ng/ml
Sertraline	5.783	1064509	765246.8	100.3	1201022.2	51284	988.240 ng/ml
Temazepam	5.824	1062335	7385.5	29.7	2148.4	47889	1085.834 ng/ml
Tramadol	4.268	11392201	592479.7	3.3	6582.2	681073	981.155 ng/ml
Trazodone	5.194	7863993	3247.8	78.2	2153.2	421459	852.080 ng/ml
Venlafaxine	5.073	12186027	147861.0	36.5	127731.6	604788	1025.641 ng/ml
Zolpidem	4.955	13625924	626769.1	28.8	2765.0	625623	974.675 ng/ml

ocr = outside curve range

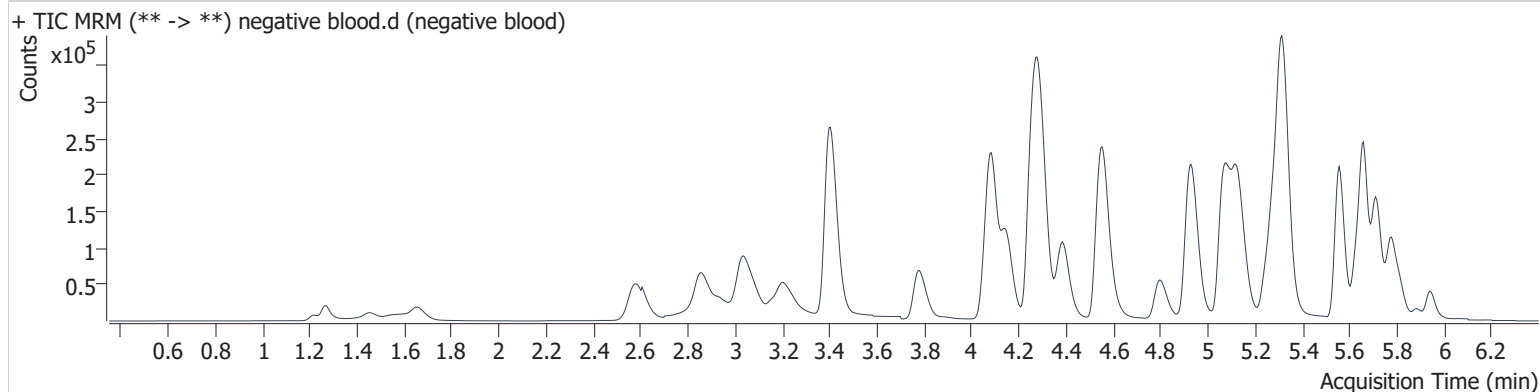
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument	69679	Data File	negative blood.d
Type	Sample	Sample	negative blood
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-E2	Comment	
Injection Volume	2		
Acq. Date-Time	12/30/2019 10:47:04 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	3.249	22037	70.1	X	X	171056	1.375 ng/ml <5

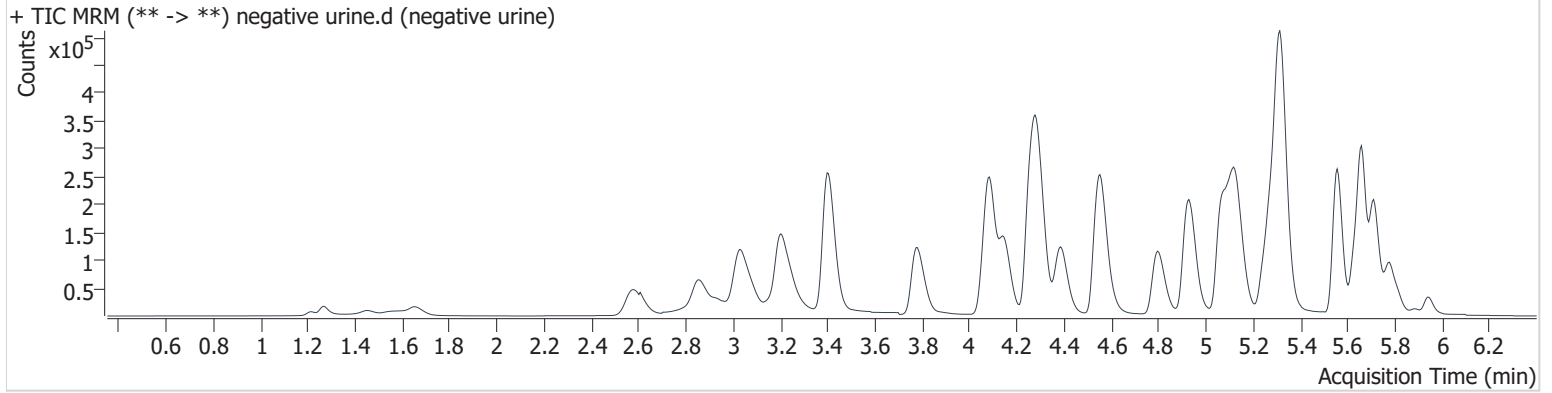


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument	69679	Data File	negative urine.d
Type	Sample	Sample	negative urine
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-C3	Comment	
Injection Volume	2		
Acq. Date-Time	12/31/2019 12:24:02 AM		
Sample Info.			

Sample Chromatogram

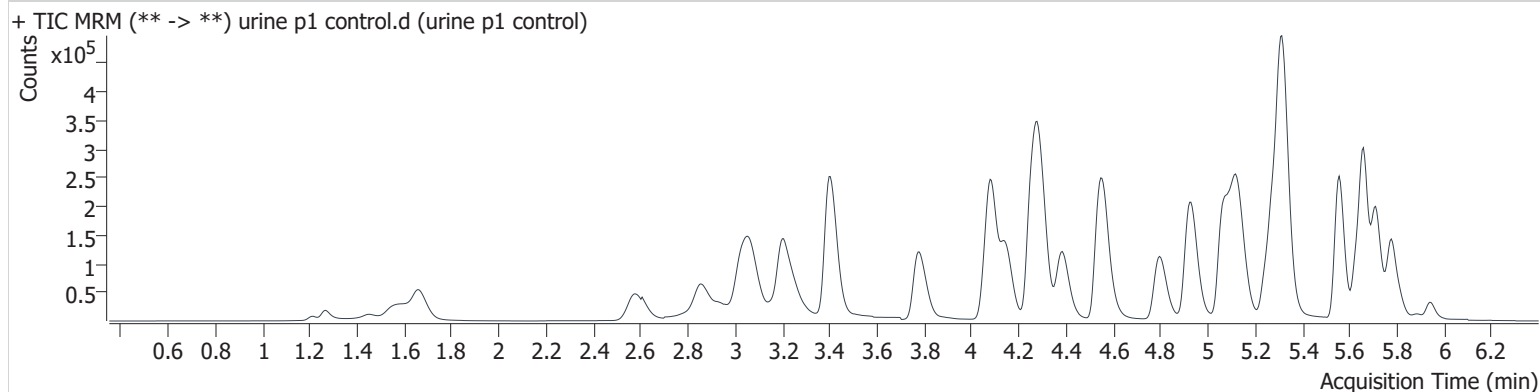


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument	69679	Data File	urine p1 control.d
Type	Sample	Sample	urine p1 control
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-D3	Comment	
Injection Volume	2		
Acq. Date-Time	12/31/2019 12:34:52 AM		
Sample Info.			

Sample Chromatogram



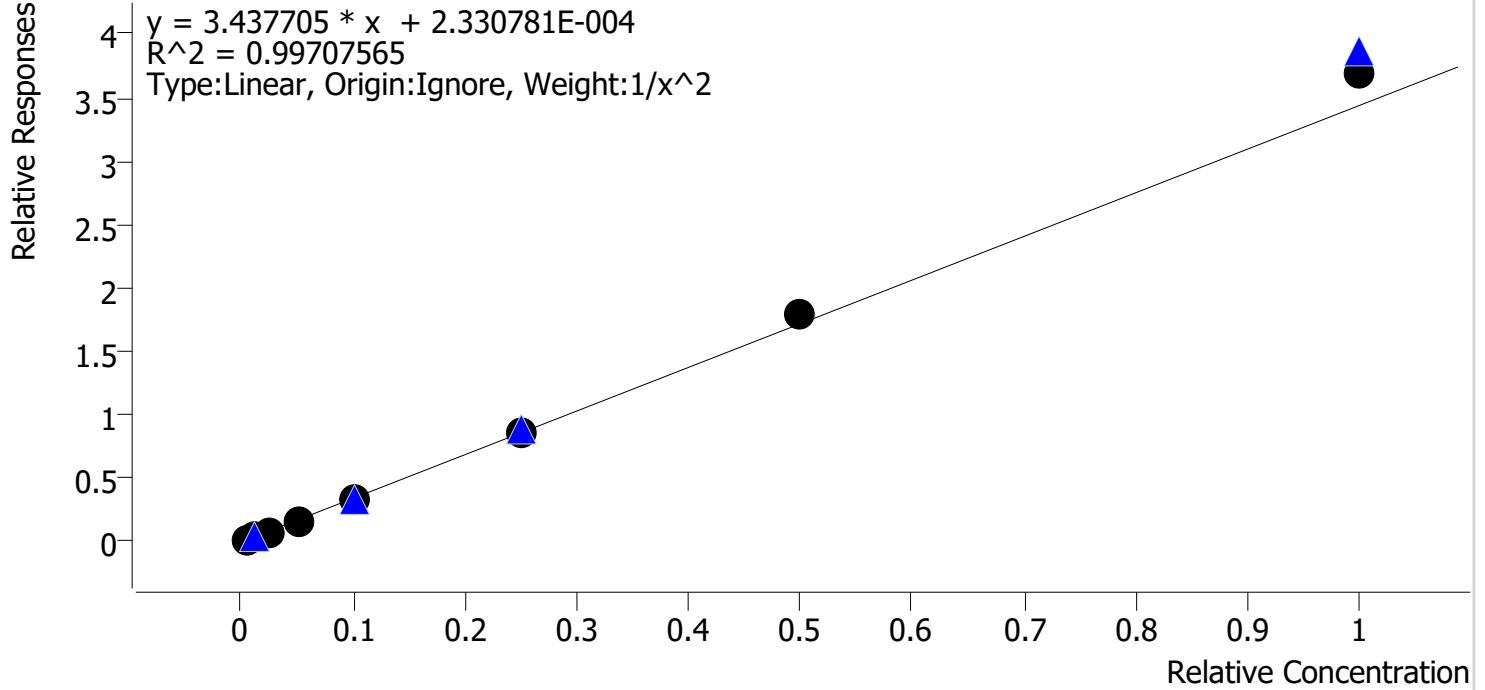
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Hydrocodone	3.063	166494	∞	39.4	∞	182499	58.312 ng/ml
Hydromorphone	1.663	172839	2593.0	74.3	9936.2	120087	54.786 ng/ml
Sertraline	5.783	56668	2092.2	102.8	345.8	160027	16.600 ng/ml

Compound Calibration Report



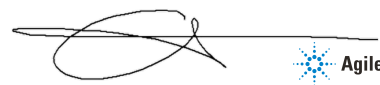
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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



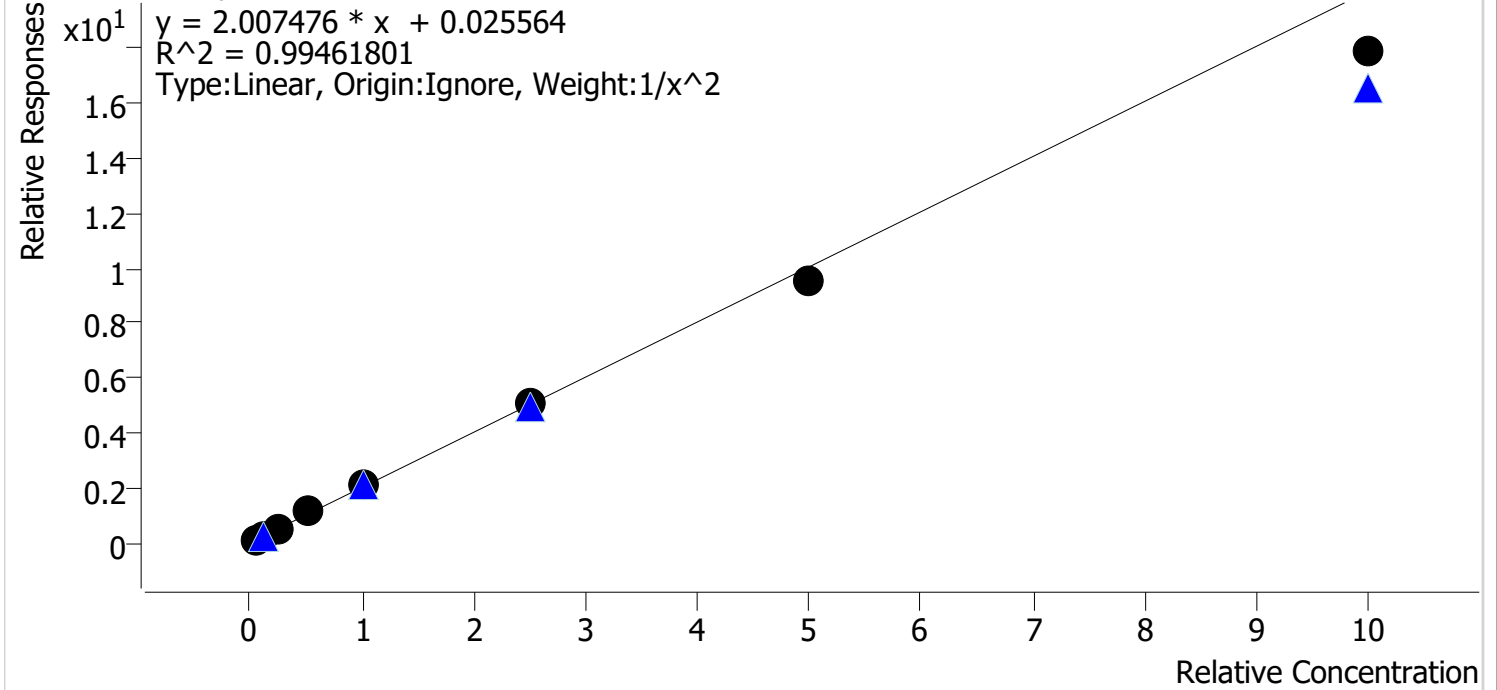
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	102.6
cal 2	2	✓	1.0	1.0	97.9
cal 3	3	✓	2.5	2.4	94.1
cal 4	4	✓	5.0	4.9	97.6
cal 5	5	✓	10.0	9.5	95.1
cal 6	6	✓	25.0	25.1	100.6
cal 7	7	✓	50.0	52.1	104.2
cal 8	8	✓	100.0	107.8	107.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

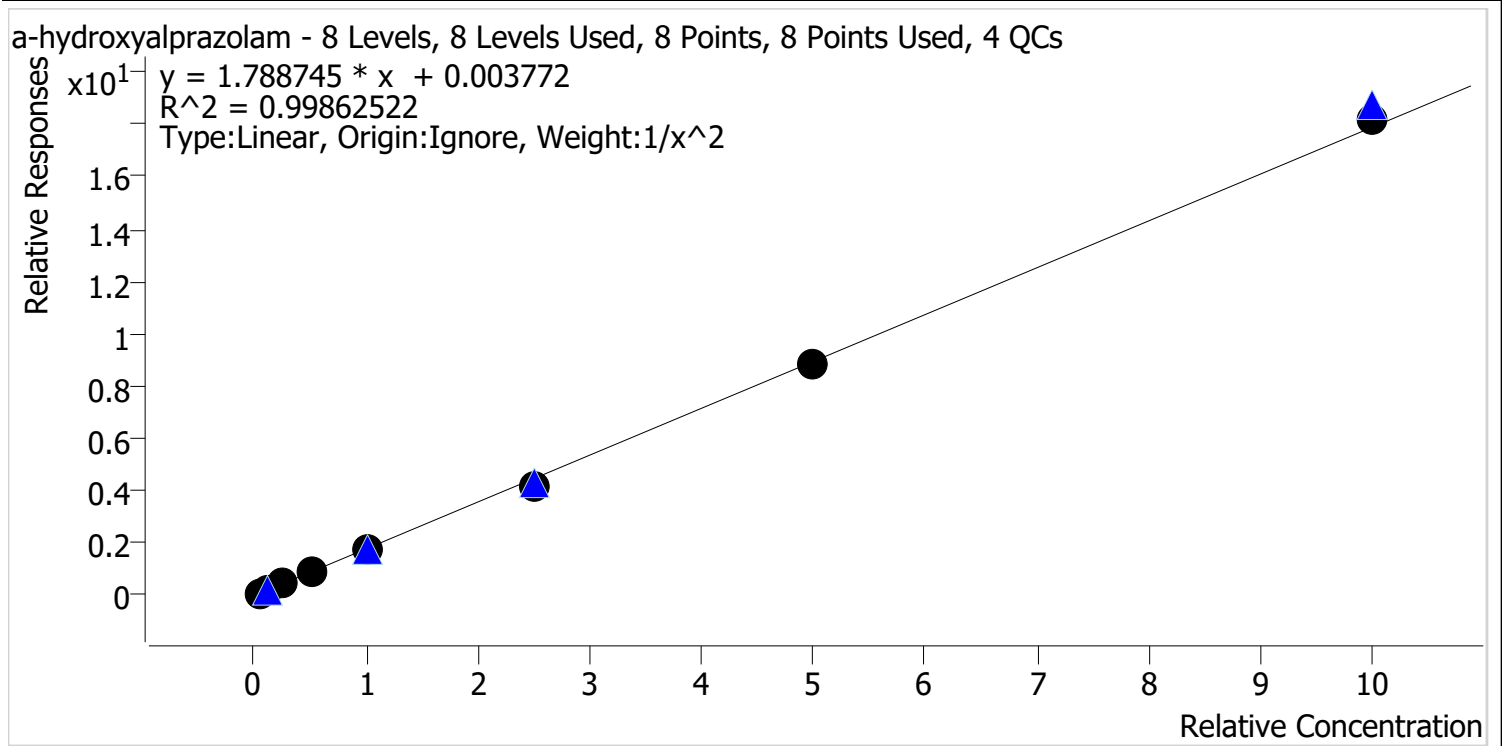
7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.2
cal 2	2	✓	10.0	10.2	102.4
cal 3	3	✓	25.0	25.7	102.9
cal 4	4	✓	50.0	54.9	109.7
cal 5	5	✓	100.0	104.1	104.1
cal 6	6	✓	250.0	250.8	100.3
cal 7	7	✓	500.0	471.8	94.4
cal 8	8	✓	1000.0	890.4	89.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

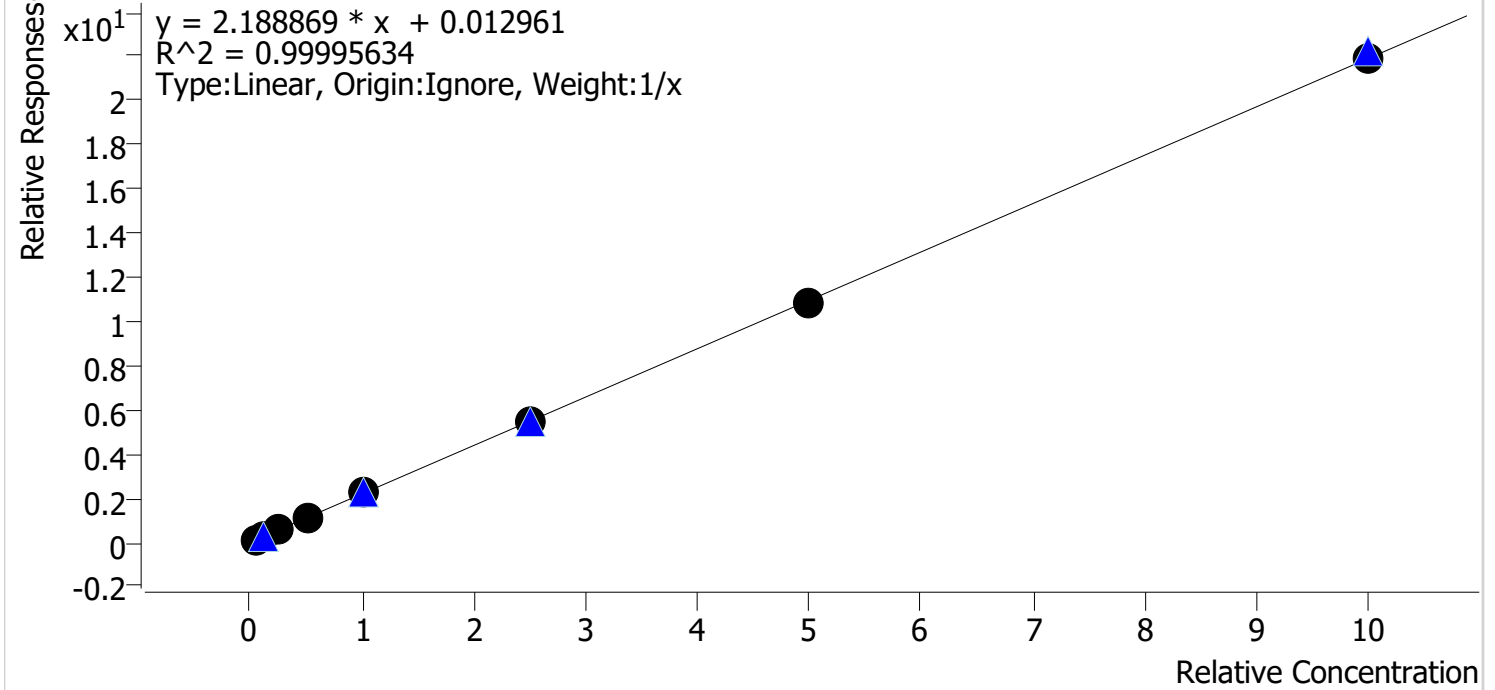


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.1
cal 2	2	✓	10.0	10.6	105.7
cal 3	3	✓	25.0	25.1	100.4
cal 4	4	✓	50.0	50.4	100.8
cal 5	5	✓	100.0	100.0	100.0
cal 6	6	✓	250.0	237.0	94.8
cal 7	7	✓	500.0	497.5	99.5
cal 8	8	✓	1000.0	1017.0	101.7



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
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

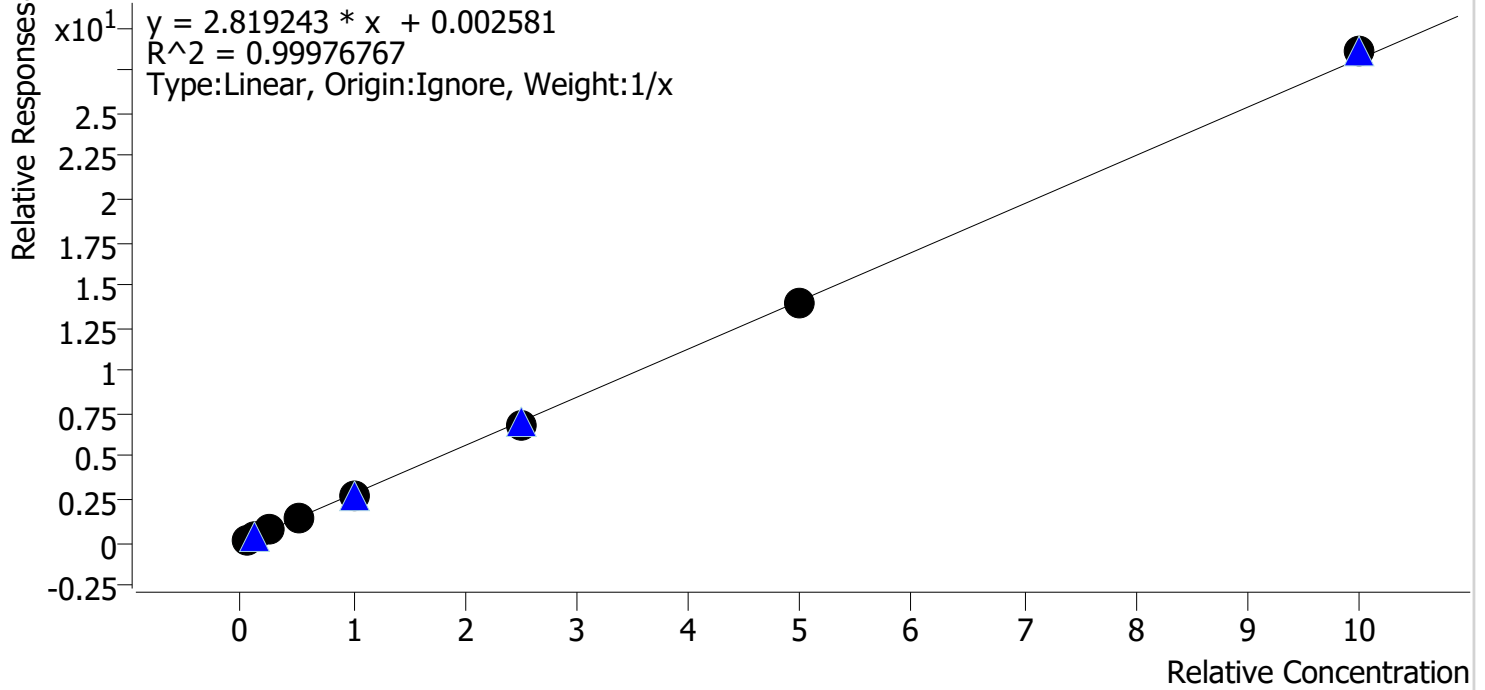


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.3
cal 2	2	✓	10.0	9.9	99.0
cal 3	3	✓	25.0	25.0	100.1
cal 4	4	✓	50.0	51.5	103.0
cal 5	5	✓	100.0	99.6	99.6
cal 6	6	✓	250.0	251.4	100.6
cal 7	7	✓	500.0	496.9	99.4
cal 8	8	✓	1000.0	1000.8	100.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

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



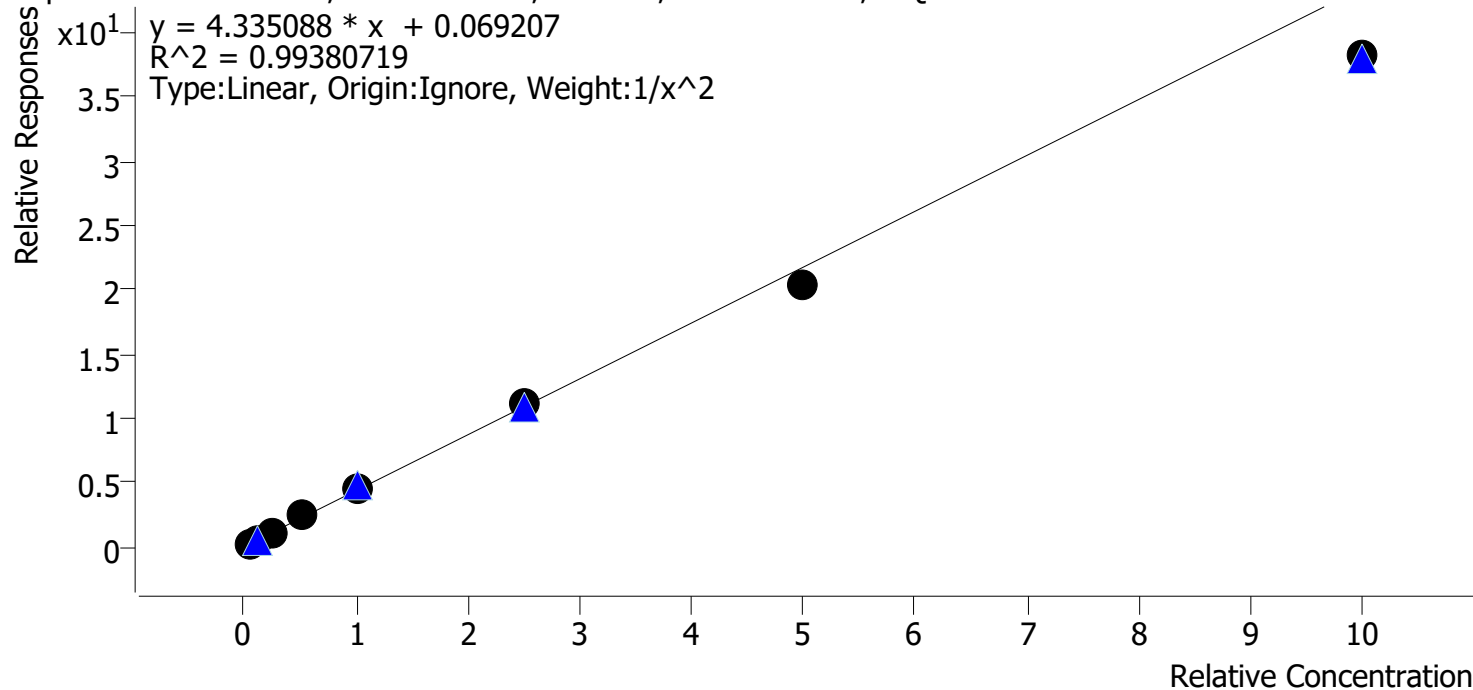
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	104.0
cal 2	2	✓	10.0	10.1	101.3
cal 3	3	✓	25.0	24.4	97.7
cal 4	4	✓	50.0	49.9	99.9
cal 5	5	✓	100.0	99.4	99.4
cal 6	6	✓	250.0	244.1	97.7
cal 7	7	✓	500.0	493.7	98.7
cal 8	8	✓	1000.0	1013.0	101.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Amphetamine

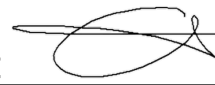
Internal Standard Amphetamine-D11

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



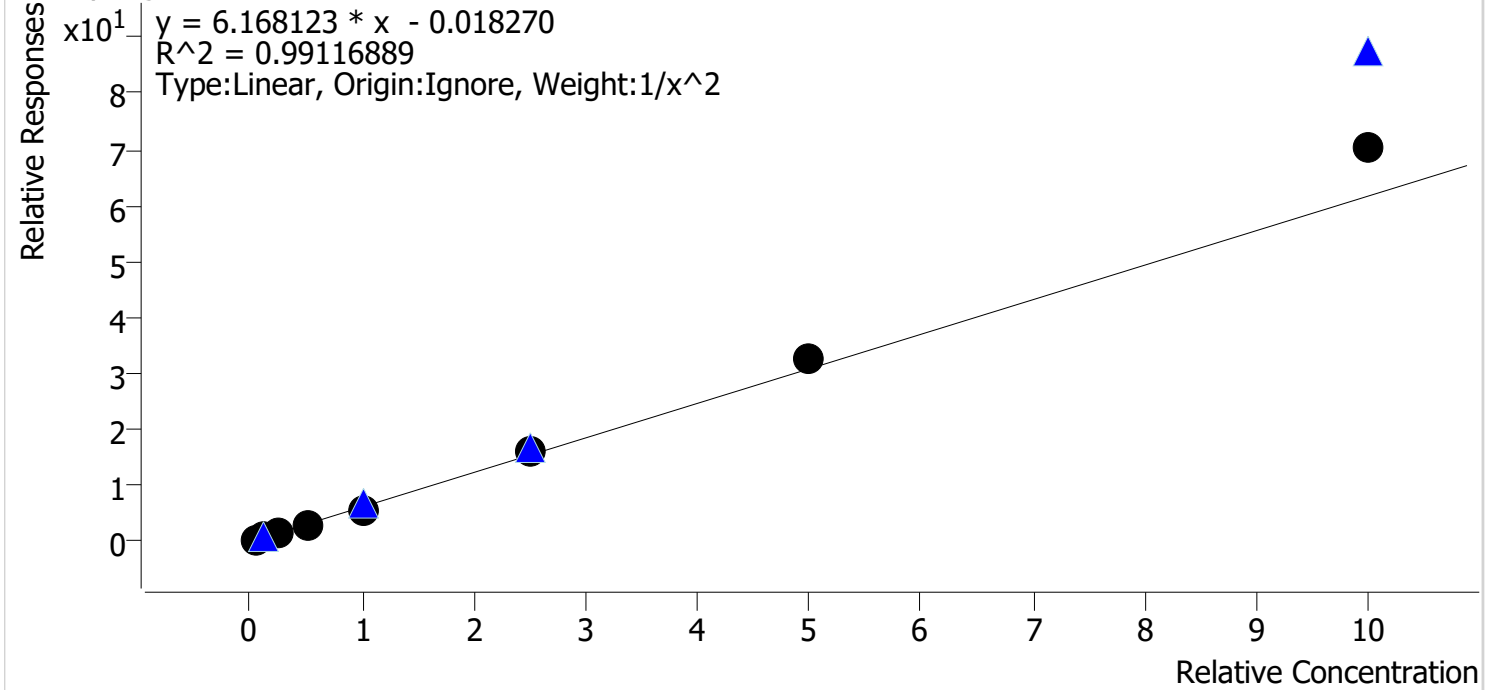
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.4
cal 2	2	✓	10.0	10.3	103.2
cal 3	3	✓	25.0	26.4	105.7
cal 4	4	✓	50.0	54.2	108.5
cal 5	5	✓	100.0	103.2	103.2
cal 6	6	✓	250.0	254.1	101.7
cal 7	7	✓	500.0	468.0	93.6
cal 8	8	✓	1000.0	878.7	87.9

Compound Calibration Report



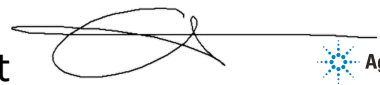
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



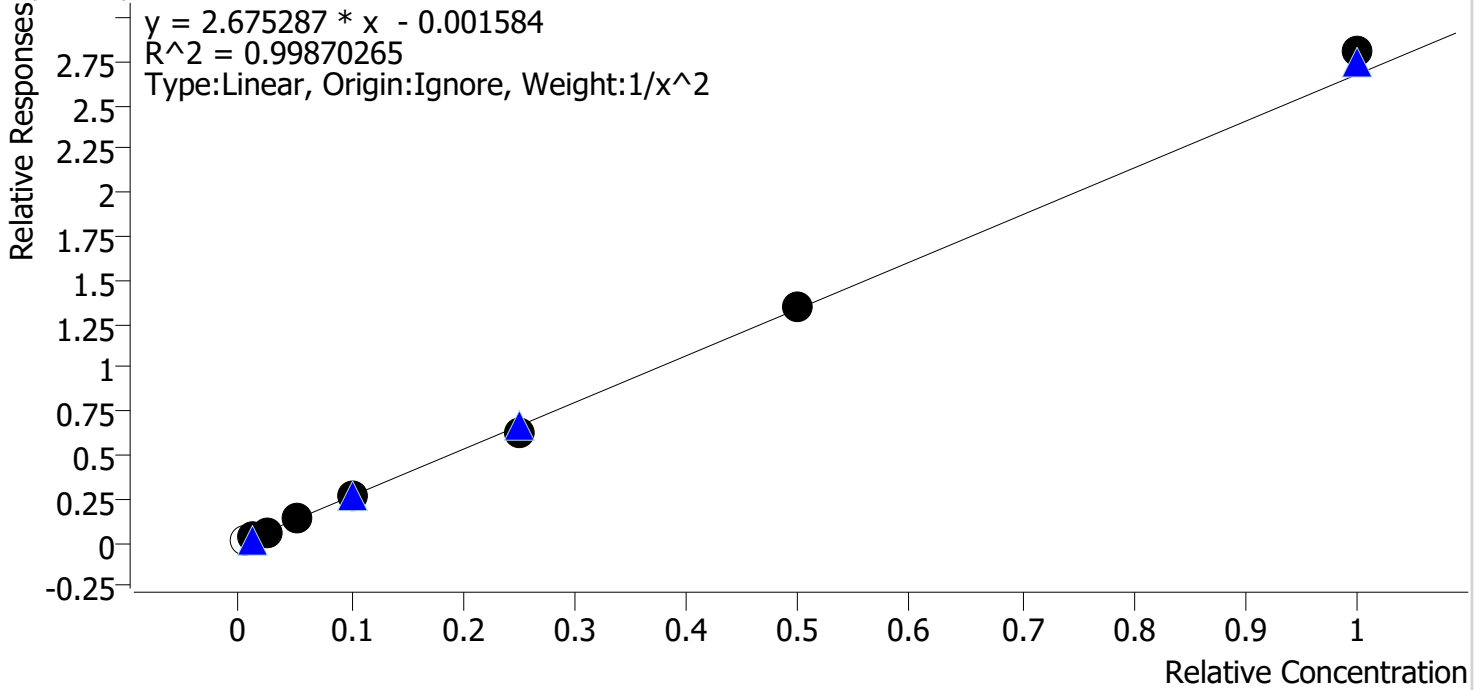
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	104.6
cal 2	2	✓	10.0	9.6	96.1
cal 3	3	✓	25.0	23.0	91.8
cal 4	4	✓	50.0	45.7	91.3
cal 5	5	✓	100.0	93.3	93.3
cal 6	6	✓	250.0	256.0	102.4
cal 7	7	✓	500.0	531.6	106.3
cal 8	8	✓	1000.0	1141.6	114.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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

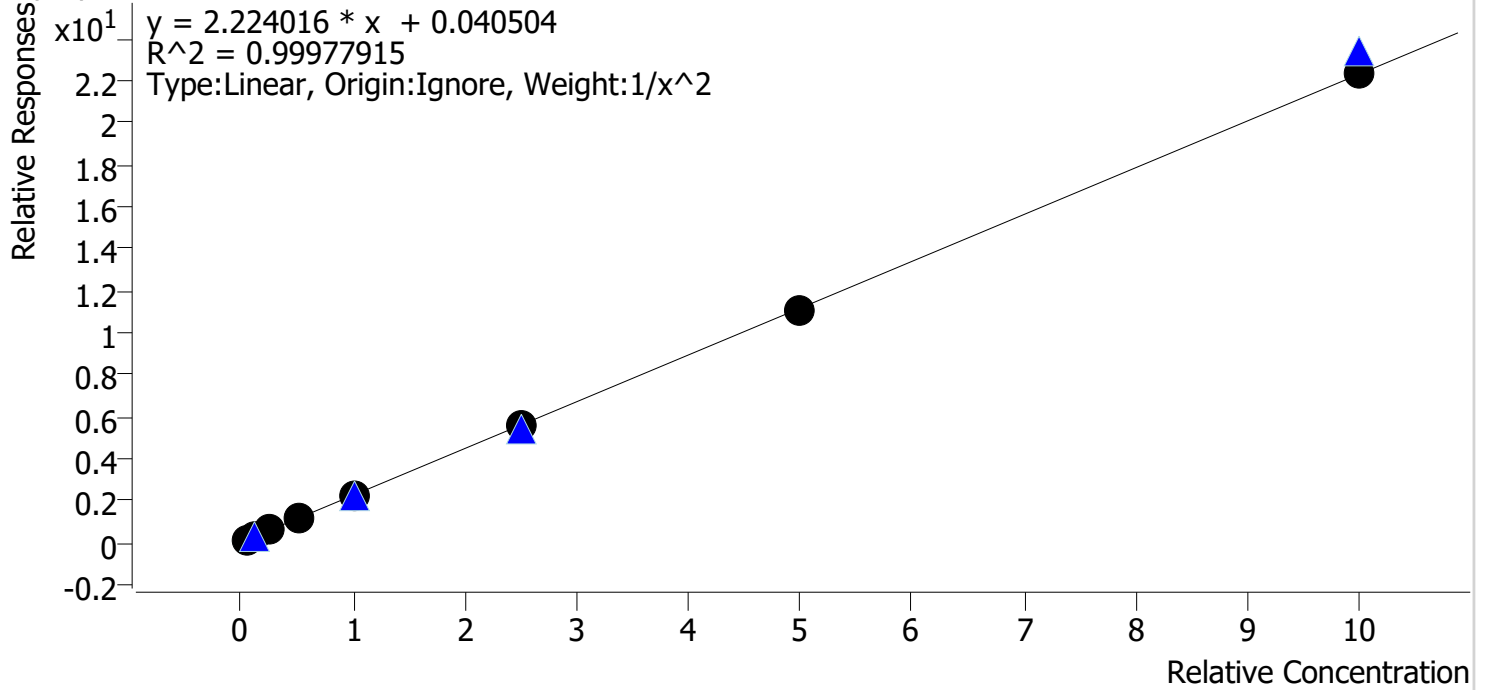


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	0.5	0.7	144.7
cal 2	2	✓	1.0	1.0	99.7
cal 3	3	✓	2.5	2.5	100.9
cal 4	4	✓	5.0	5.1	101.6
cal 5	5	✓	10.0	9.8	97.8
cal 6	6	✓	25.0	23.7	95.0
cal 7	7	✓	50.0	50.1	100.2
cal 8	8	✓	100.0	104.9	104.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

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



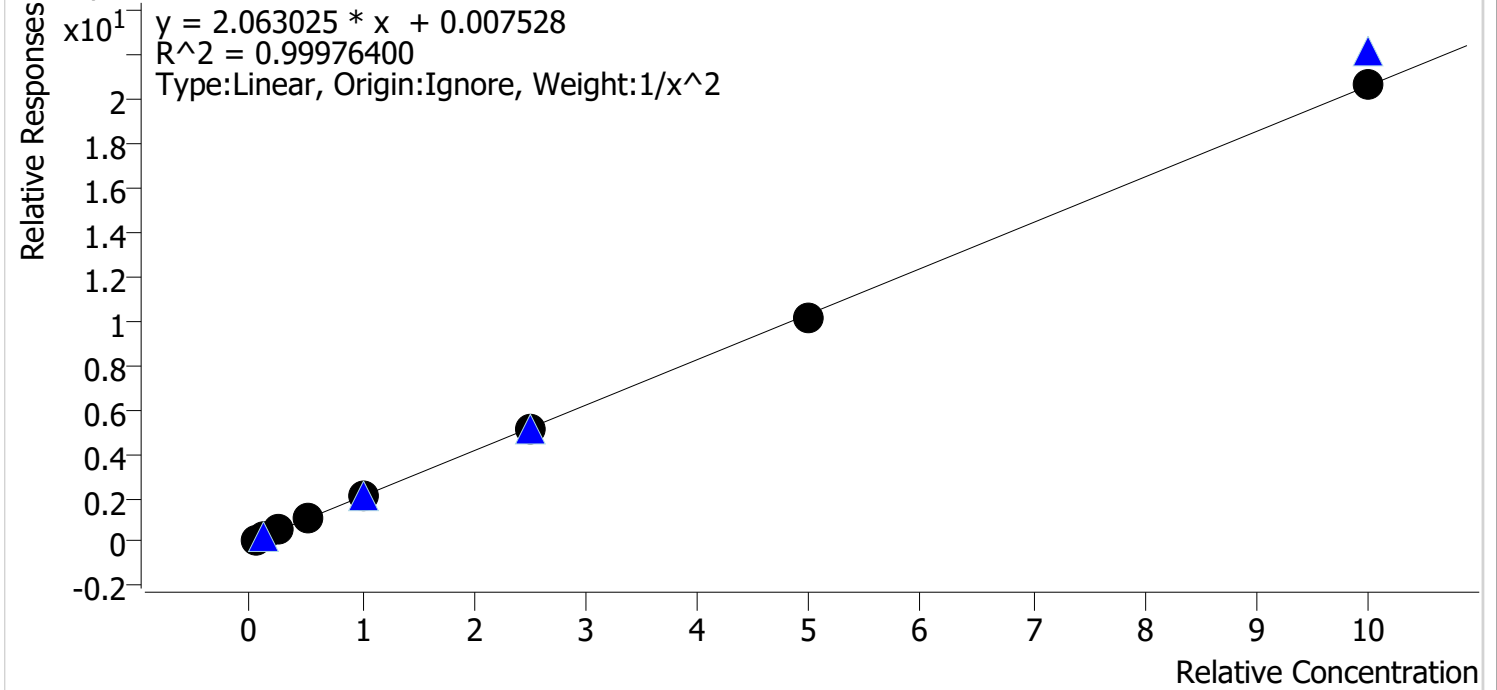
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	10.0	99.9
cal 3	3	✓	25.0	25.0	99.8
cal 4	4	✓	50.0	51.4	102.9
cal 5	5	✓	100.0	99.6	99.6
cal 6	6	✓	250.0	248.7	99.5
cal 7	7	✓	500.0	491.7	98.3
cal 8	8	✓	1000.0	1001.8	100.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Carisoprodol

Internal Standard Carisoprodol-D7

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



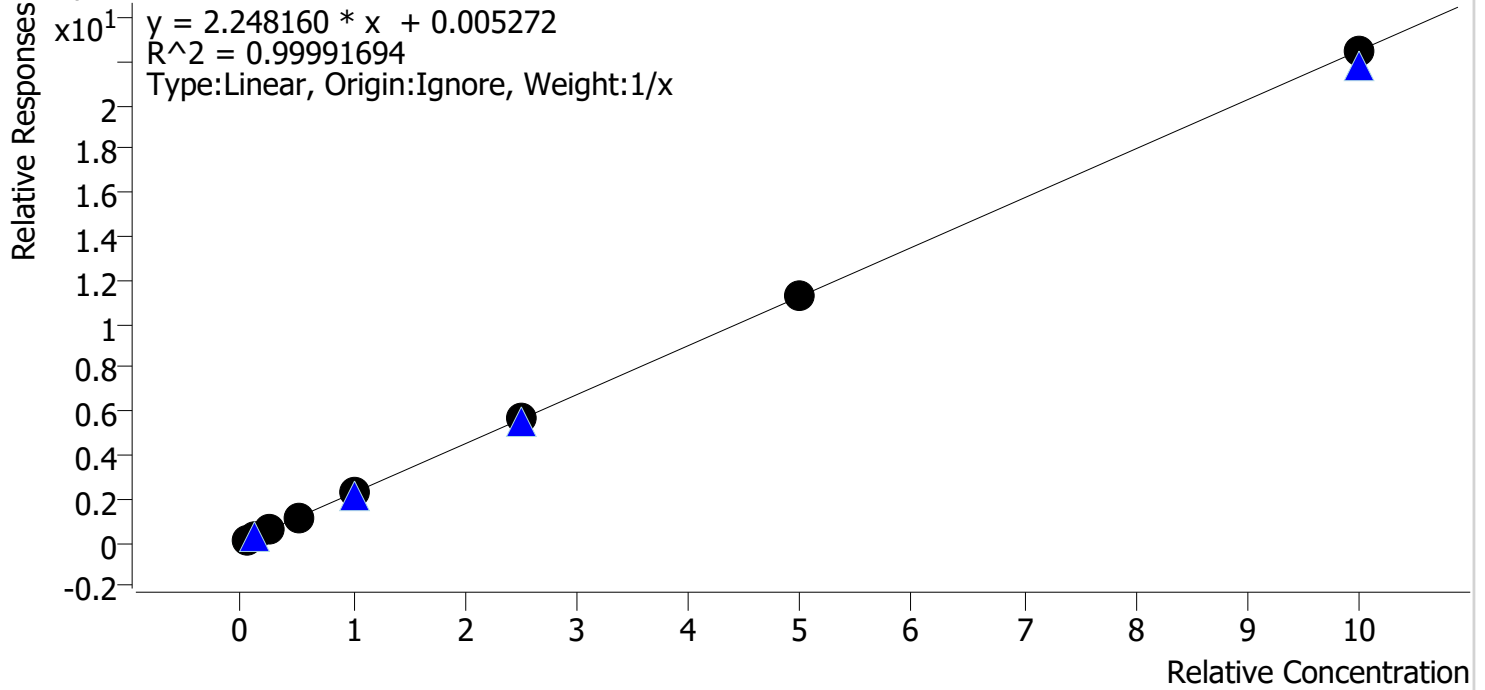
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.5
cal 2	2	✓	10.0	10.0	100.5
cal 3	3	✓	25.0	25.1	100.4
cal 4	4	✓	50.0	51.2	102.5
cal 5	5	✓	100.0	98.6	98.6
cal 6	6	✓	250.0	250.4	100.2
cal 7	7	✓	500.0	490.3	98.1
cal 8	8	✓	1000.0	1002.3	100.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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



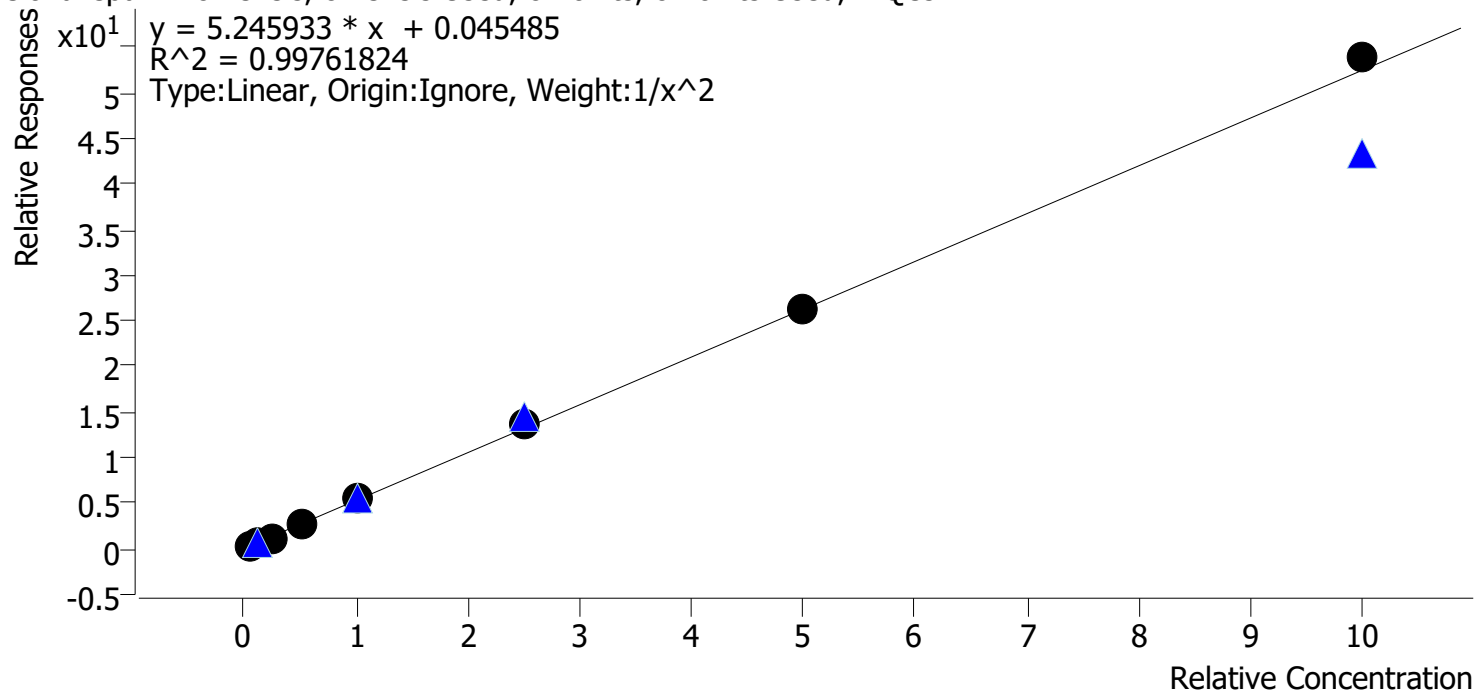
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.2
cal 2	2	✓	10.0	10.0	100.0
cal 3	3	✓	25.0	25.1	100.5
cal 4	4	✓	50.0	50.4	100.8
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	254.9	102.0
cal 7	7	✓	500.0	498.6	99.7
cal 8	8	✓	1000.0	998.0	99.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

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

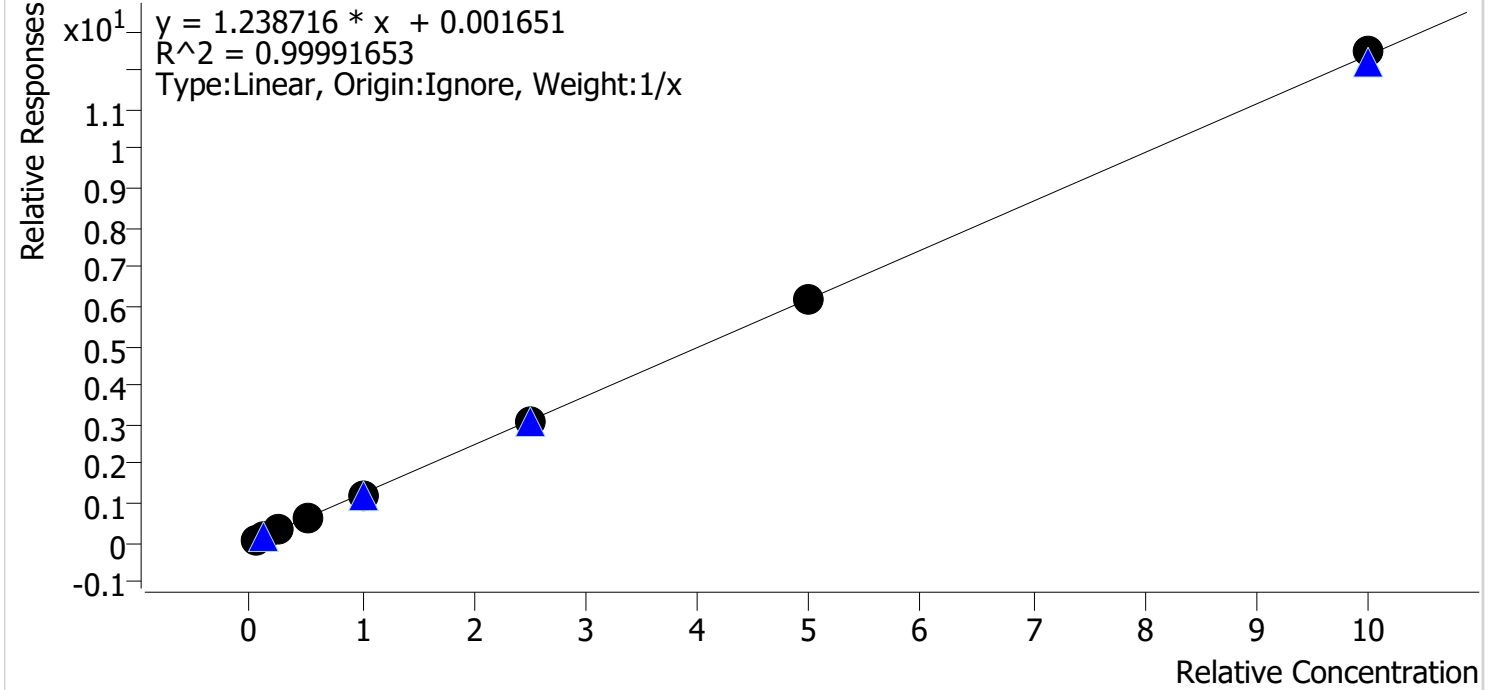


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	10.2	102.0
cal 3	3	✓	25.0	22.6	90.6
cal 4	4	✓	50.0	48.6	97.3
cal 5	5	✓	100.0	102.7	102.7
cal 6	6	✓	250.0	257.6	103.0
cal 7	7	✓	500.0	503.9	100.8
cal 8	8	✓	1000.0	1026.6	102.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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

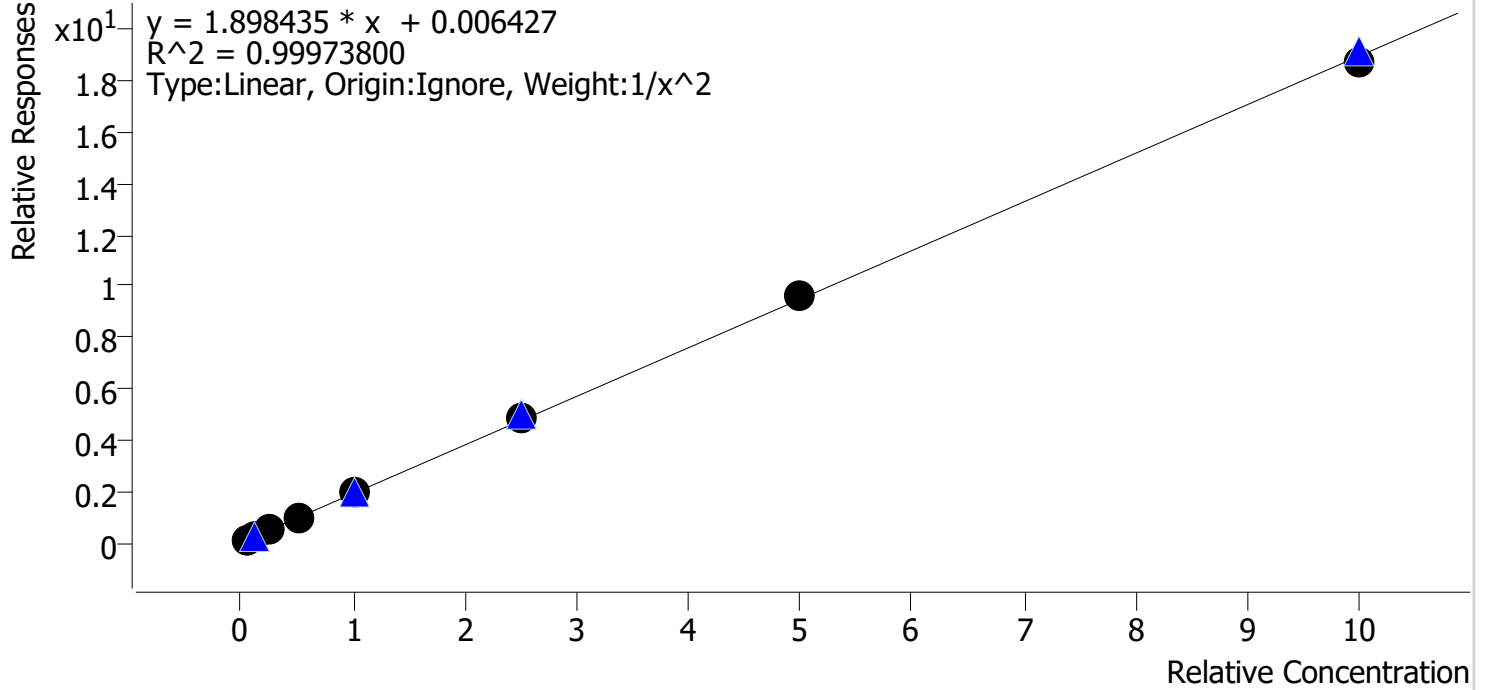


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.5
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	25.0	24.7	98.7
cal 4	4	✓	50.0	50.1	100.3
cal 5	5	✓	100.0	98.2	98.2
cal 6	6	✓	250.0	247.7	99.1
cal 7	7	✓	500.0	496.5	99.3
cal 8	8	✓	1000.0	1007.6	100.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

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



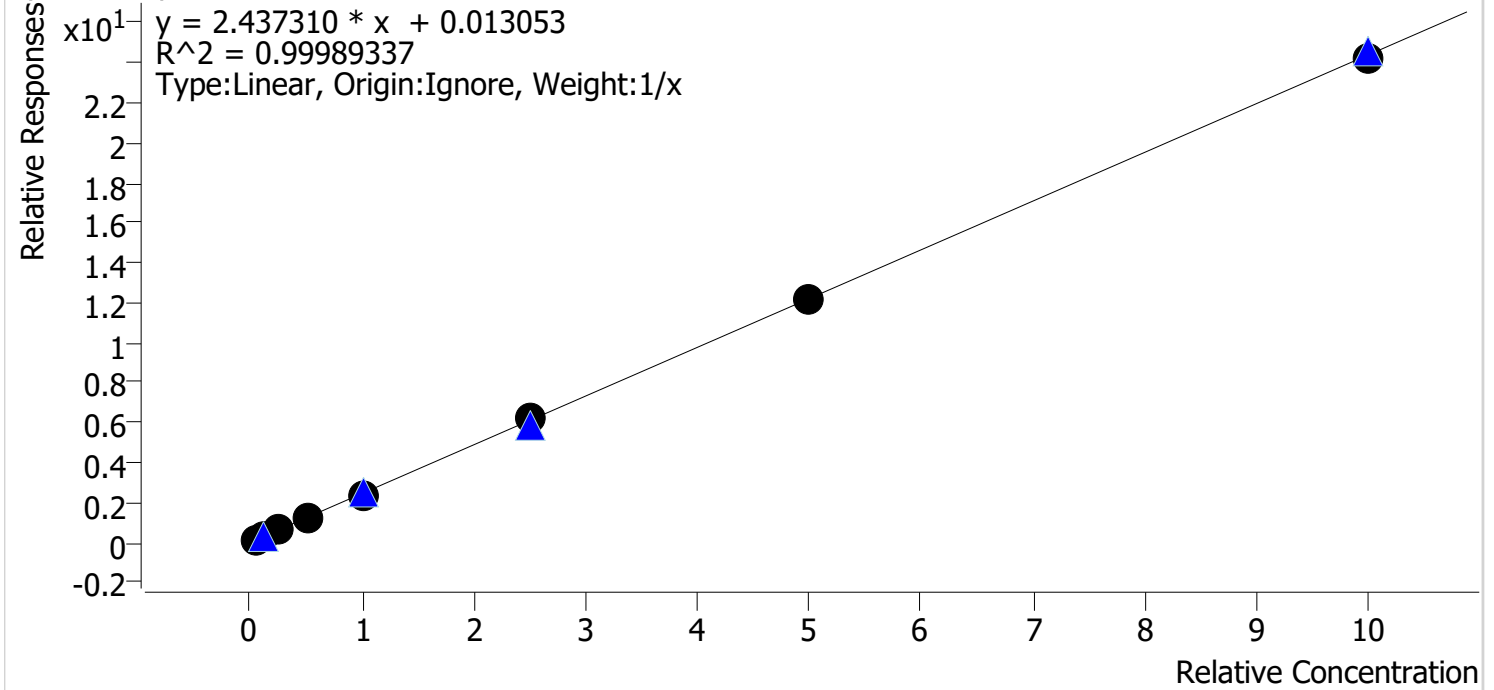
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.0
cal 2	2	✓	10.0	9.7	97.3
cal 3	3	✓	25.0	25.4	101.4
cal 4	4	✓	50.0	50.2	100.3
cal 5	5	✓	100.0	99.6	99.6
cal 6	6	✓	250.0	252.3	100.9
cal 7	7	✓	500.0	503.4	100.7
cal 8	8	✓	1000.0	987.0	98.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



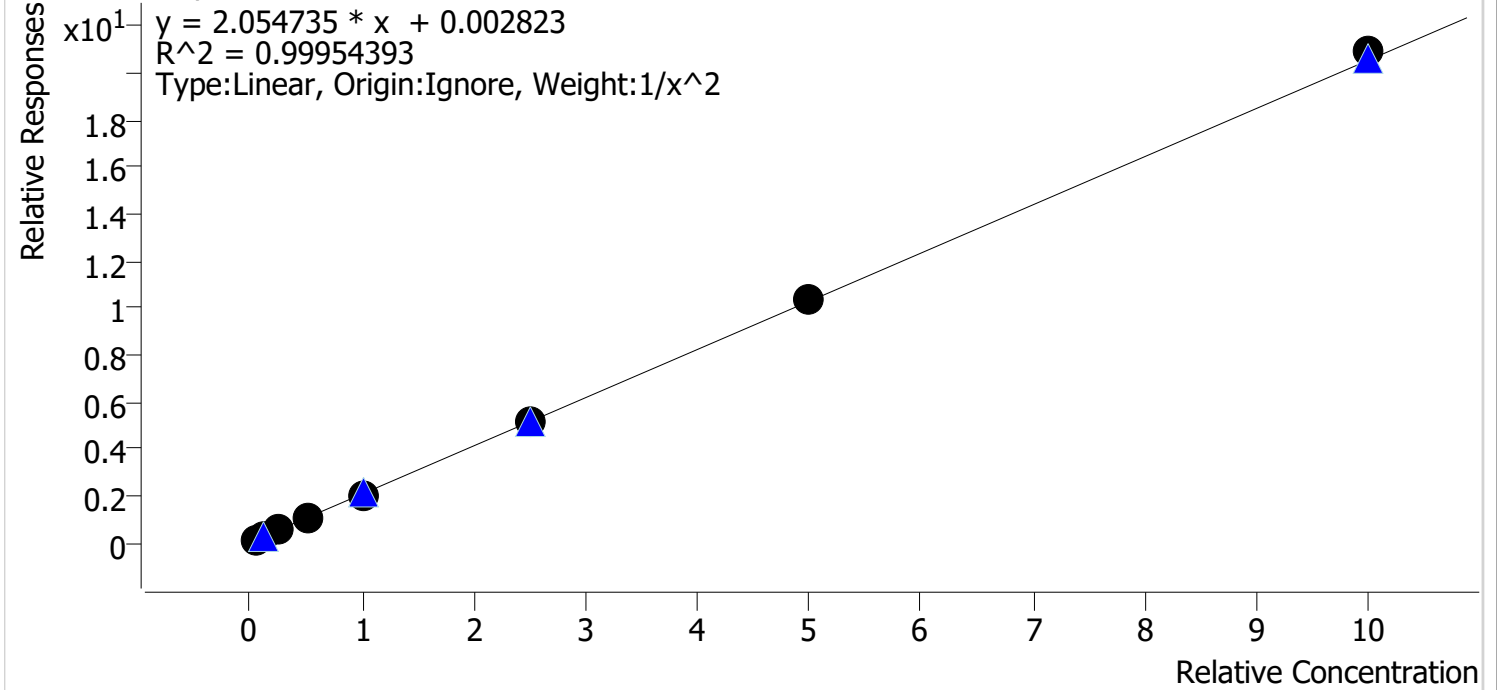
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.6
cal 2	2	✓	10.0	9.7	97.2
cal 3	3	✓	25.0	25.2	100.8
cal 4	4	✓	50.0	50.8	101.6
cal 5	5	✓	100.0	98.1	98.1
cal 6	6	✓	250.0	255.2	102.1
cal 7	7	✓	500.0	500.7	100.1
cal 8	8	✓	1000.0	995.2	99.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Dextromethorphan

Internal Standard Dextromethorphan-D3

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

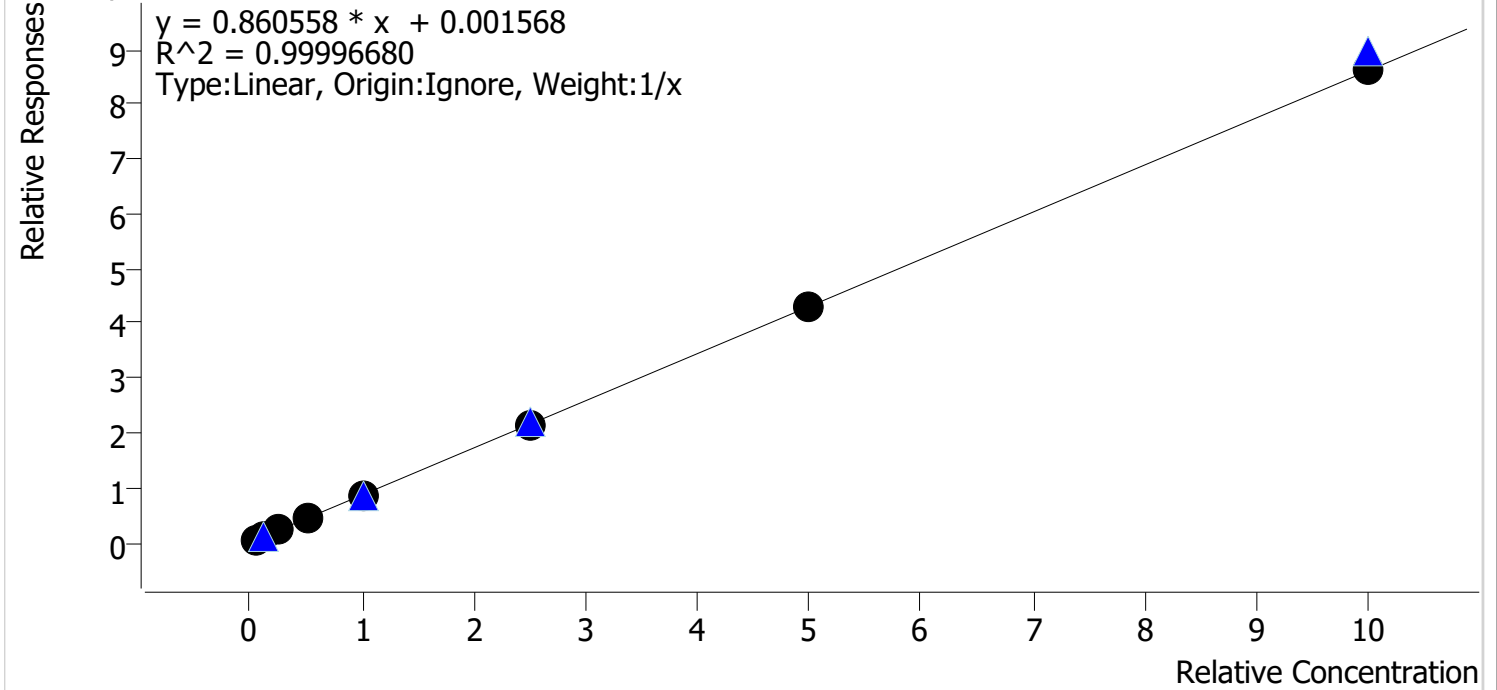


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.3
cal 2	2	✓	10.0	9.8	98.2
cal 3	3	✓	25.0	24.3	97.1
cal 4	4	✓	50.0	50.9	101.7
cal 5	5	✓	100.0	98.2	98.2
cal 6	6	✓	250.0	250.8	100.3
cal 7	7	✓	500.0	506.0	101.2
cal 8	8	✓	1000.0	1018.1	101.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

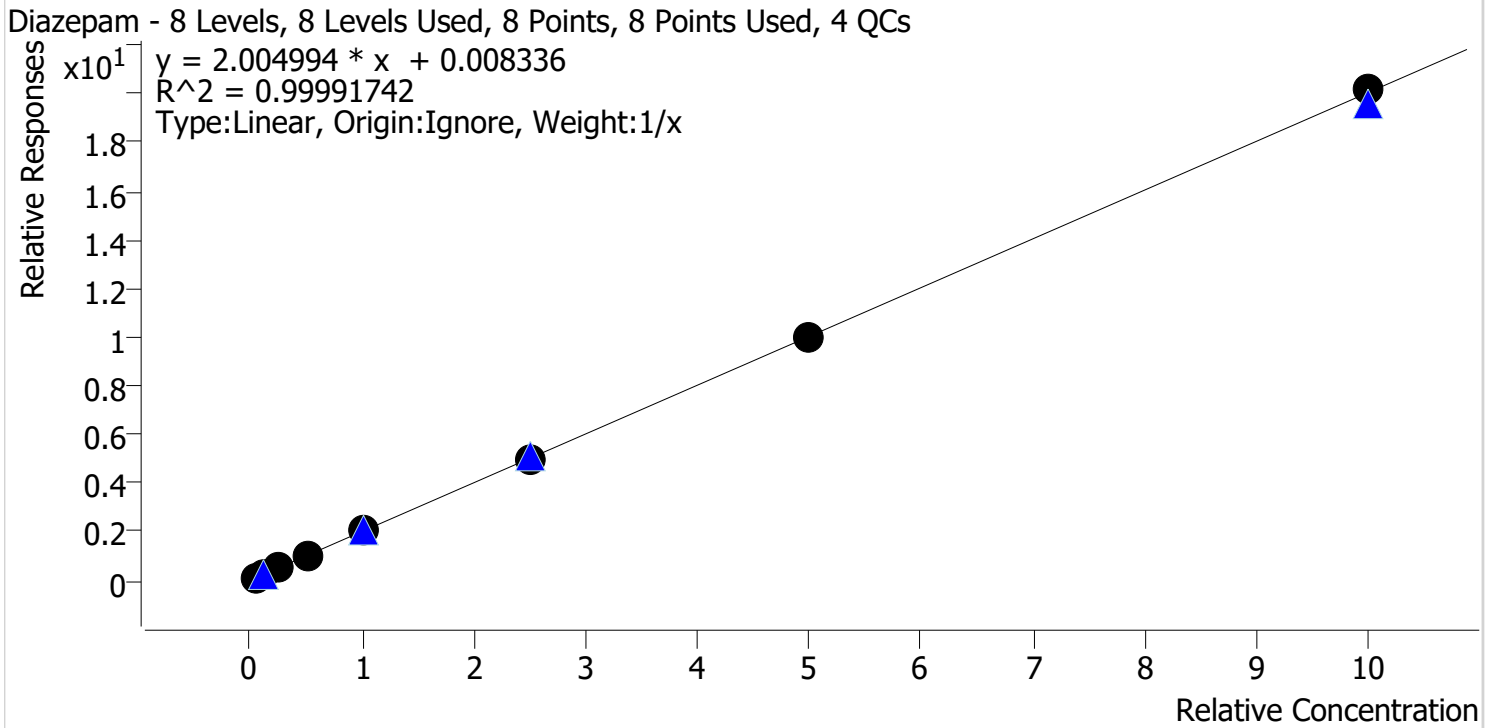
Dextrorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.8
cal 2	2	✓	10.0	10.0	99.8
cal 3	3	✓	25.0	24.7	98.9
cal 4	4	✓	50.0	50.5	101.0
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	251.3	100.5
cal 7	7	✓	500.0	500.0	100.0
cal 8	8	✓	1000.0	1000.5	100.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

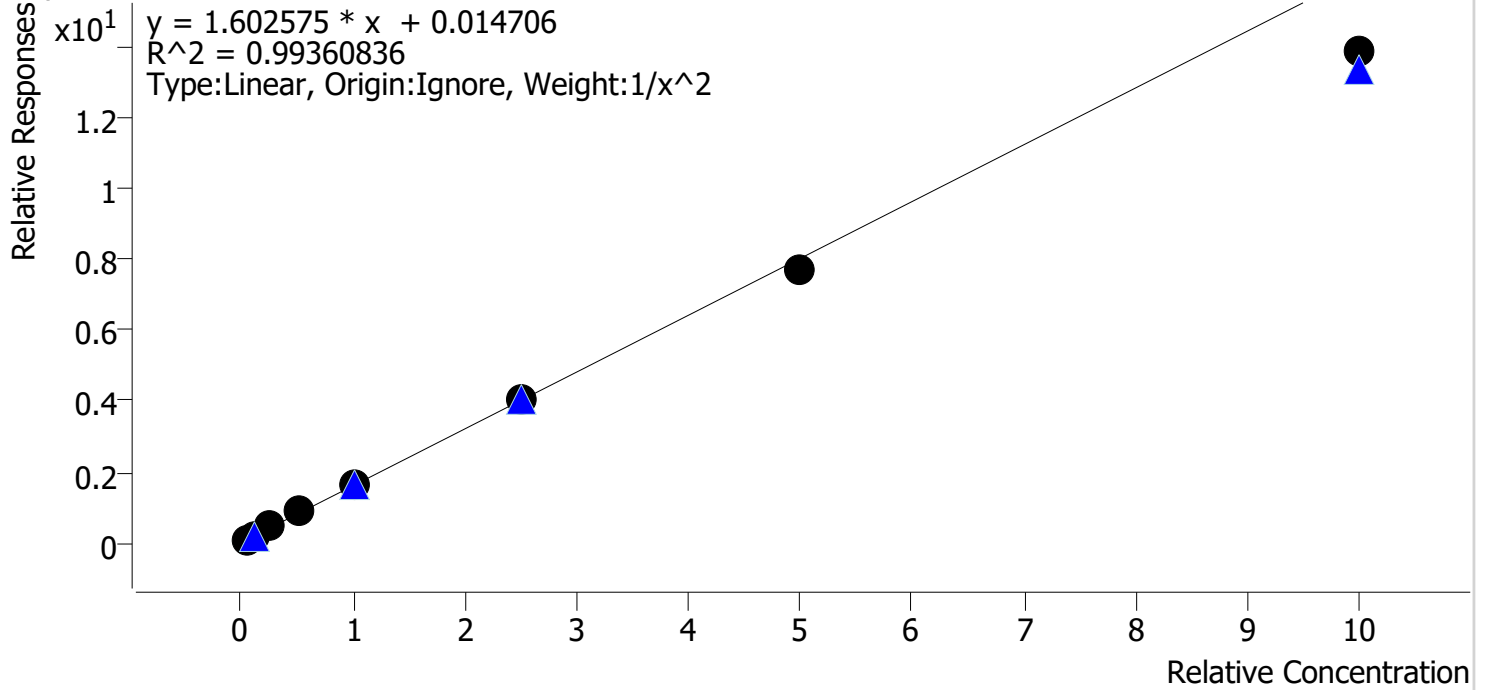


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.0
cal 2	2	✓	10.0	9.9	98.6
cal 3	3	✓	25.0	24.5	98.1
cal 4	4	✓	50.0	50.8	101.5
cal 5	5	✓	100.0	101.1	101.1
cal 6	6	✓	250.0	248.1	99.2
cal 7	7	✓	500.0	494.6	98.9
cal 8	8	✓	1000.0	1006.1	100.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

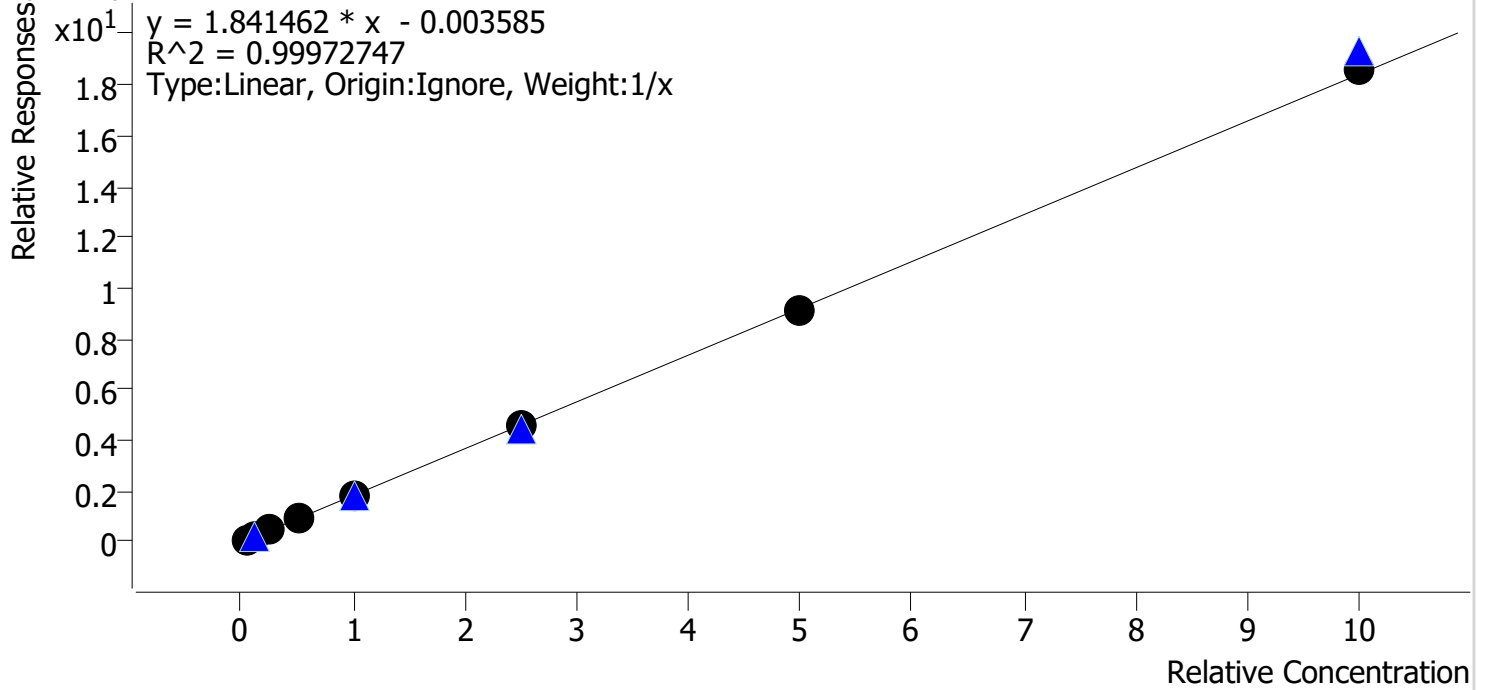


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.3
cal 2	2	✓	10.0	10.1	100.9
cal 3	3	✓	25.0	26.7	106.9
cal 4	4	✓	50.0	53.9	107.8
cal 5	5	✓	100.0	104.0	104.0
cal 6	6	✓	250.0	252.8	101.1
cal 7	7	✓	500.0	477.9	95.6
cal 8	8	✓	1000.0	863.9	86.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

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

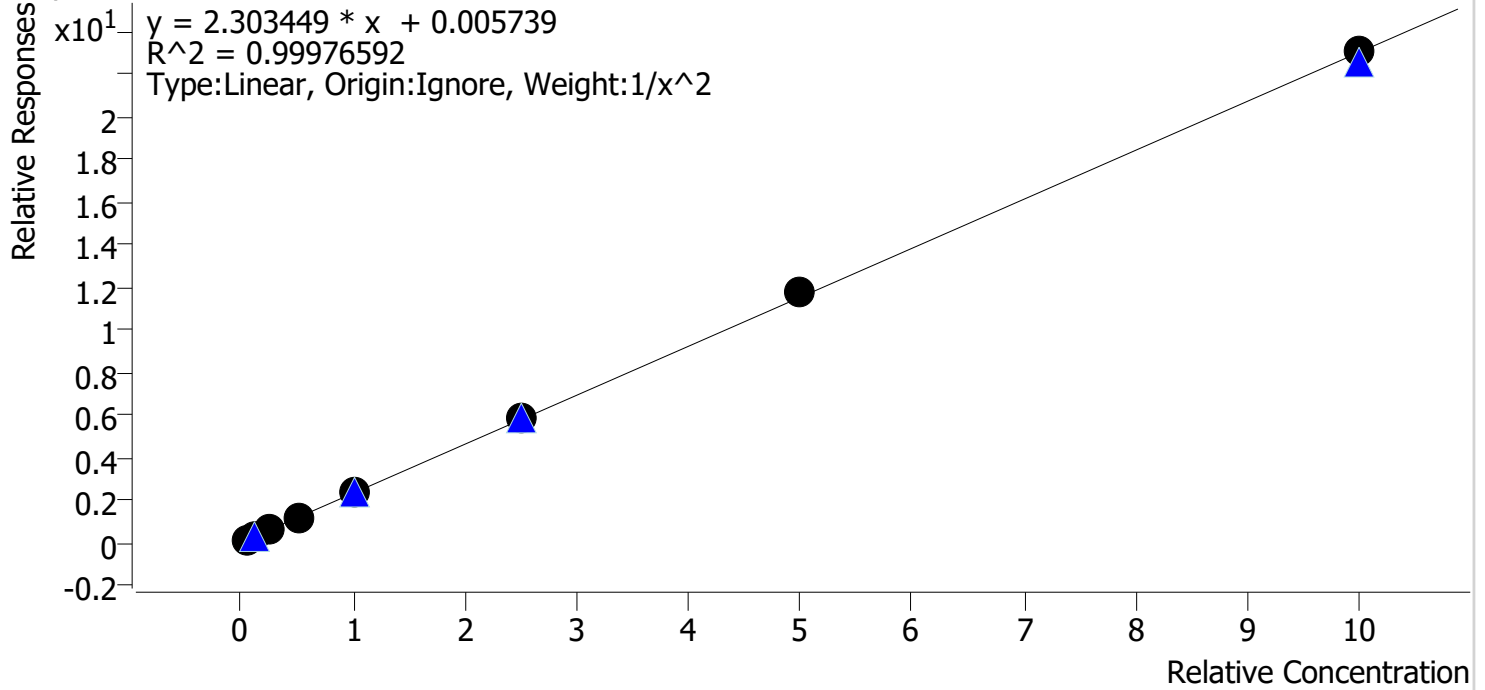


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.3
cal 2	2	✓	10.0	10.2	101.9
cal 3	3	✓	25.0	24.4	97.5
cal 4	4	✓	50.0	48.4	96.8
cal 5	5	✓	100.0	96.0	96.0
cal 6	6	✓	250.0	248.4	99.4
cal 7	7	✓	500.0	494.9	99.0
cal 8	8	✓	1000.0	1012.4	101.2

Compound Calibration Report

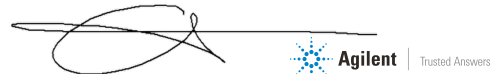
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

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

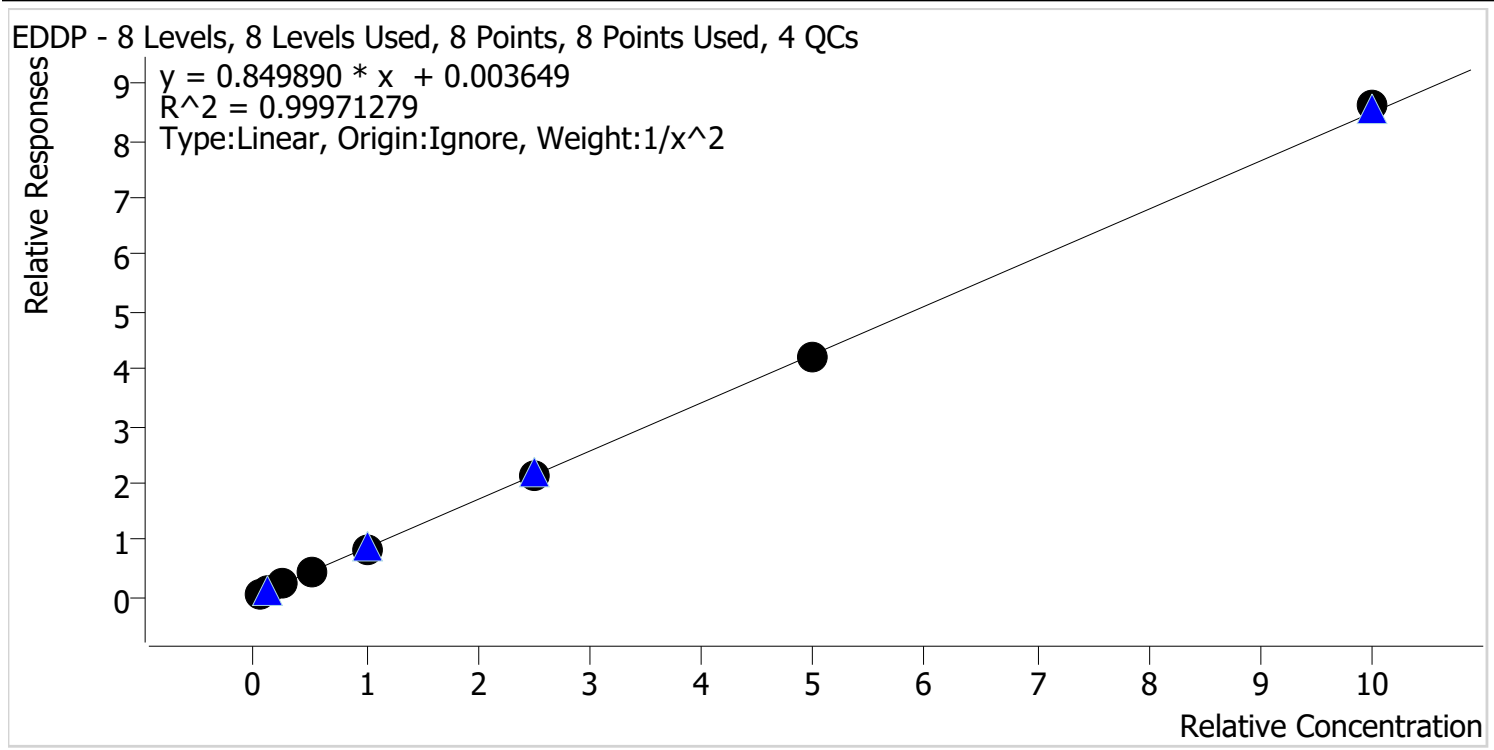


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.7
cal 2	2	✓	10.0	9.9	99.3
cal 3	3	✓	25.0	24.5	97.9
cal 4	4	✓	50.0	50.6	101.2
cal 5	5	✓	100.0	98.5	98.5
cal 6	6	✓	250.0	250.9	100.3
cal 7	7	✓	500.0	509.3	101.9
cal 8	8	✓	1000.0	1001.5	100.2

Compound Calibration Report

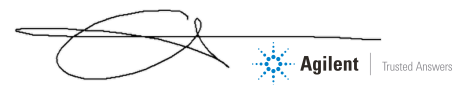


Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3



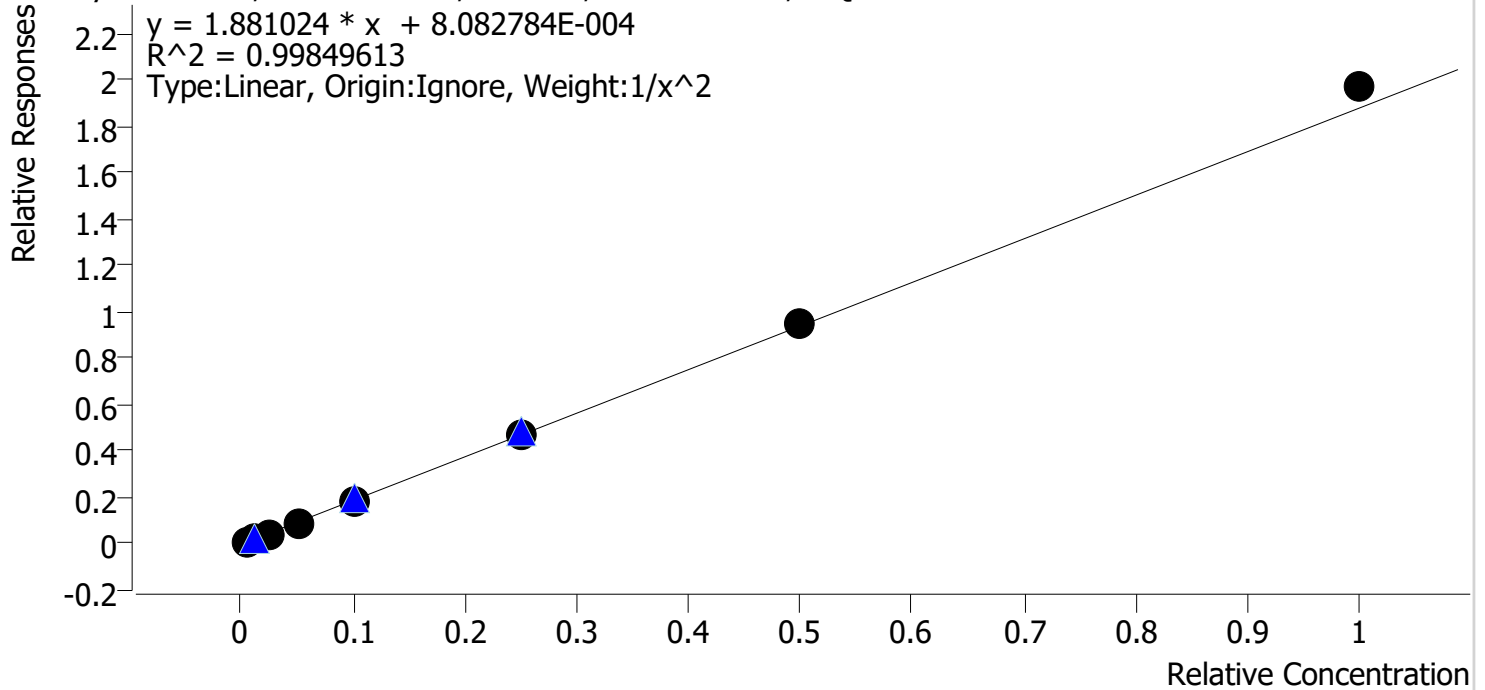
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.9
cal 2	2	✓	10.0	9.9	98.6
cal 3	3	✓	25.0	24.7	98.7
cal 4	4	✓	50.0	50.9	101.9
cal 5	5	✓	100.0	98.1	98.1
cal 6	6	✓	250.0	252.6	101.0
cal 7	7	✓	500.0	496.9	99.4
cal 8	8	✓	1000.0	1014.5	101.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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



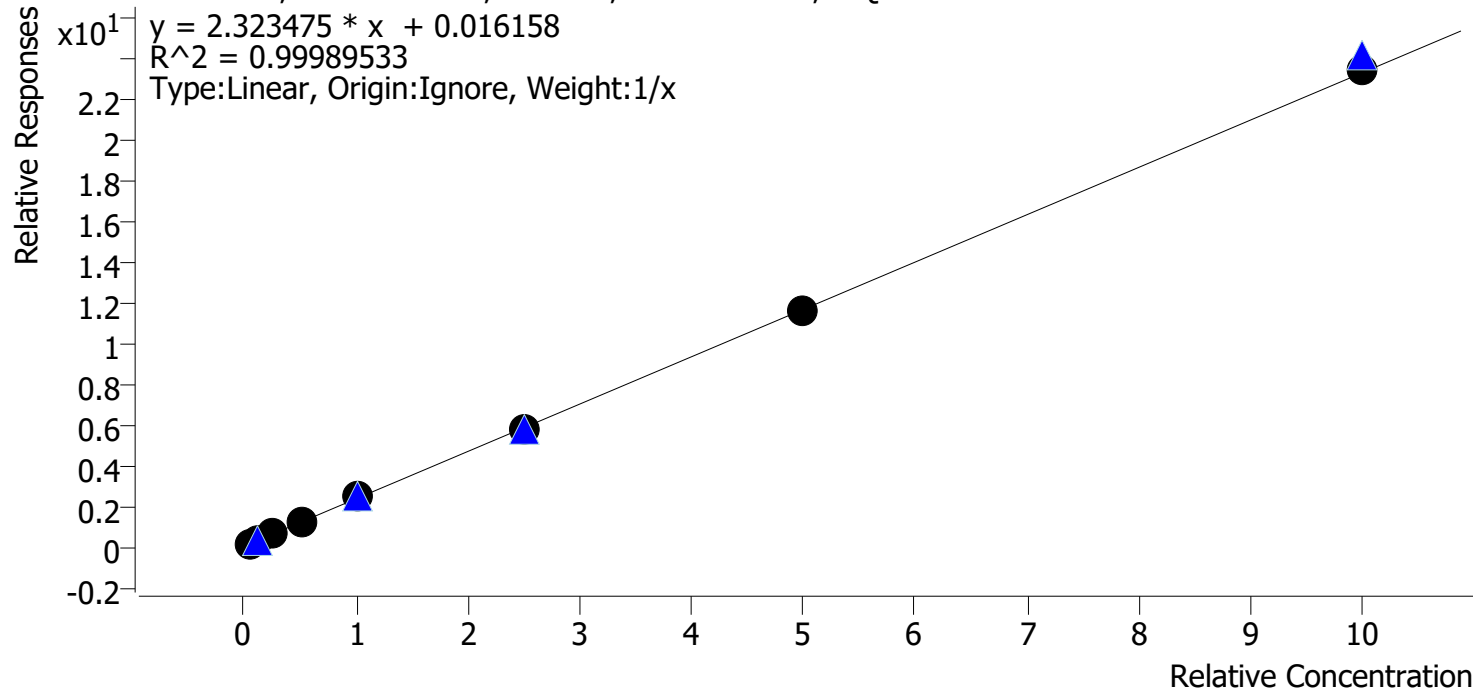
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	102.5
cal 2	2	✓	1.0	1.0	96.3
cal 3	3	✓	2.5	2.4	97.1
cal 4	4	✓	5.0	5.0	100.5
cal 5	5	✓	10.0	9.6	95.7
cal 6	6	✓	25.0	25.3	101.2
cal 7	7	✓	50.0	50.7	101.4
cal 8	8	✓	100.0	105.3	105.3

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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

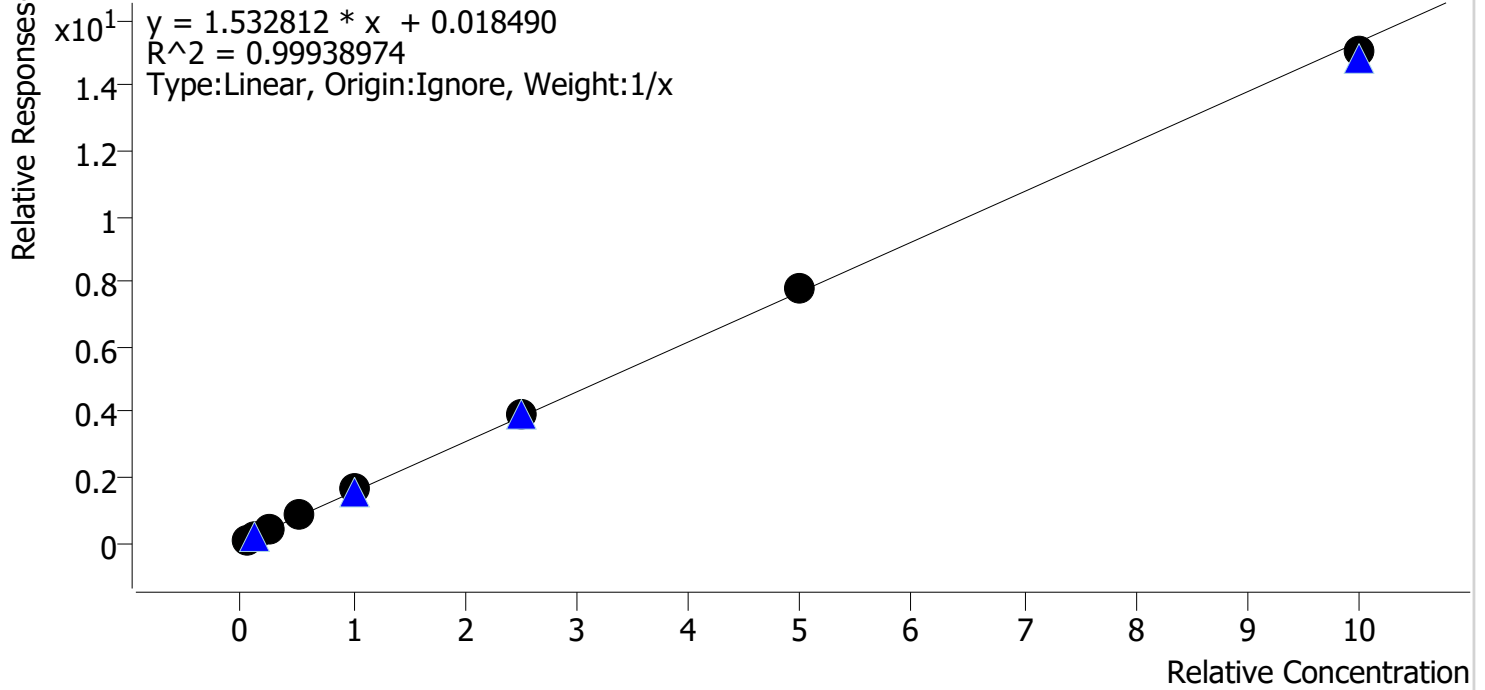


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.0
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	24.9	99.8
cal 4	4	✓	50.0	51.0	102.1
cal 5	5	✓	100.0	102.4	102.4
cal 6	6	✓	250.0	250.4	100.2
cal 7	7	✓	500.0	493.3	98.7
cal 8	8	✓	1000.0	1003.3	100.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6

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

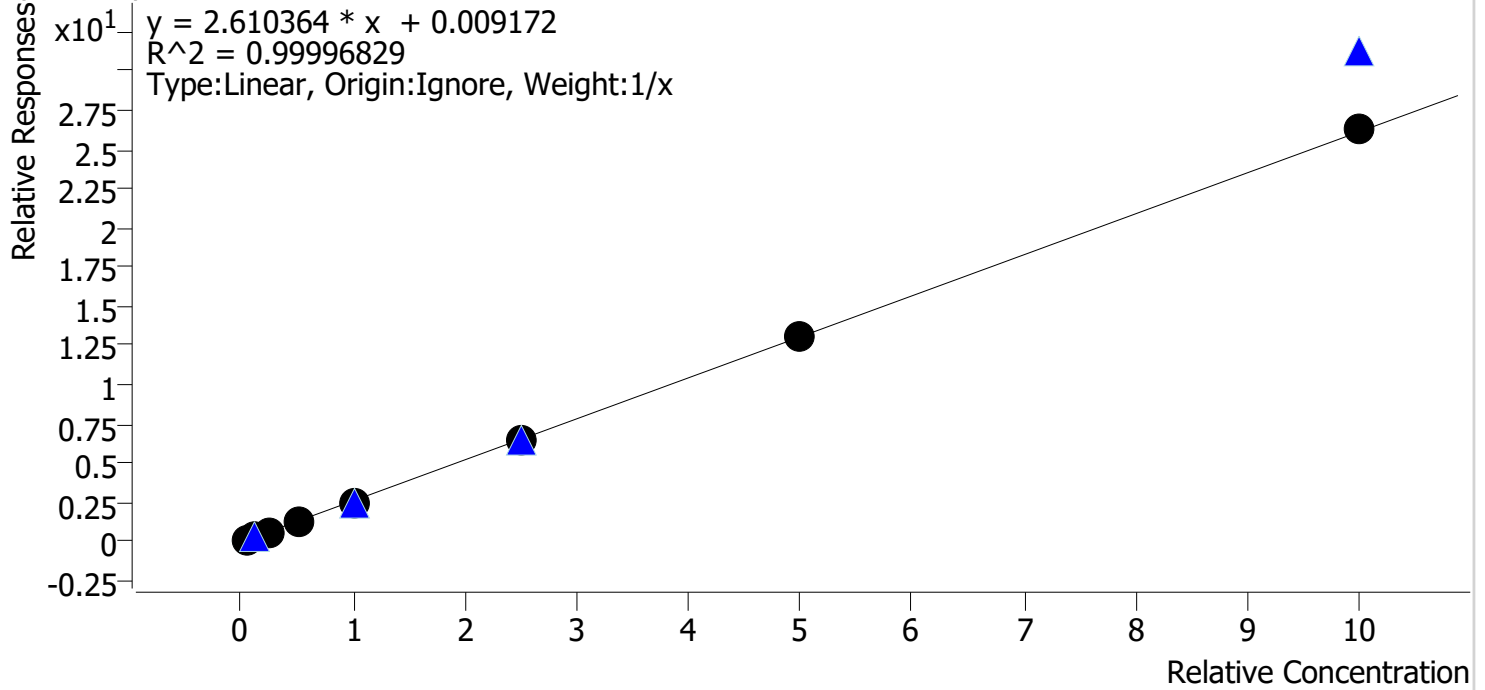


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.5	89.6
cal 2	2	✓	10.0	9.6	96.3
cal 3	3	✓	25.0	25.5	102.1
cal 4	4	✓	50.0	53.0	106.1
cal 5	5	✓	100.0	103.8	103.8
cal 6	6	✓	250.0	257.3	102.9
cal 7	7	✓	500.0	505.9	101.2
cal 8	8	✓	1000.0	980.3	98.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

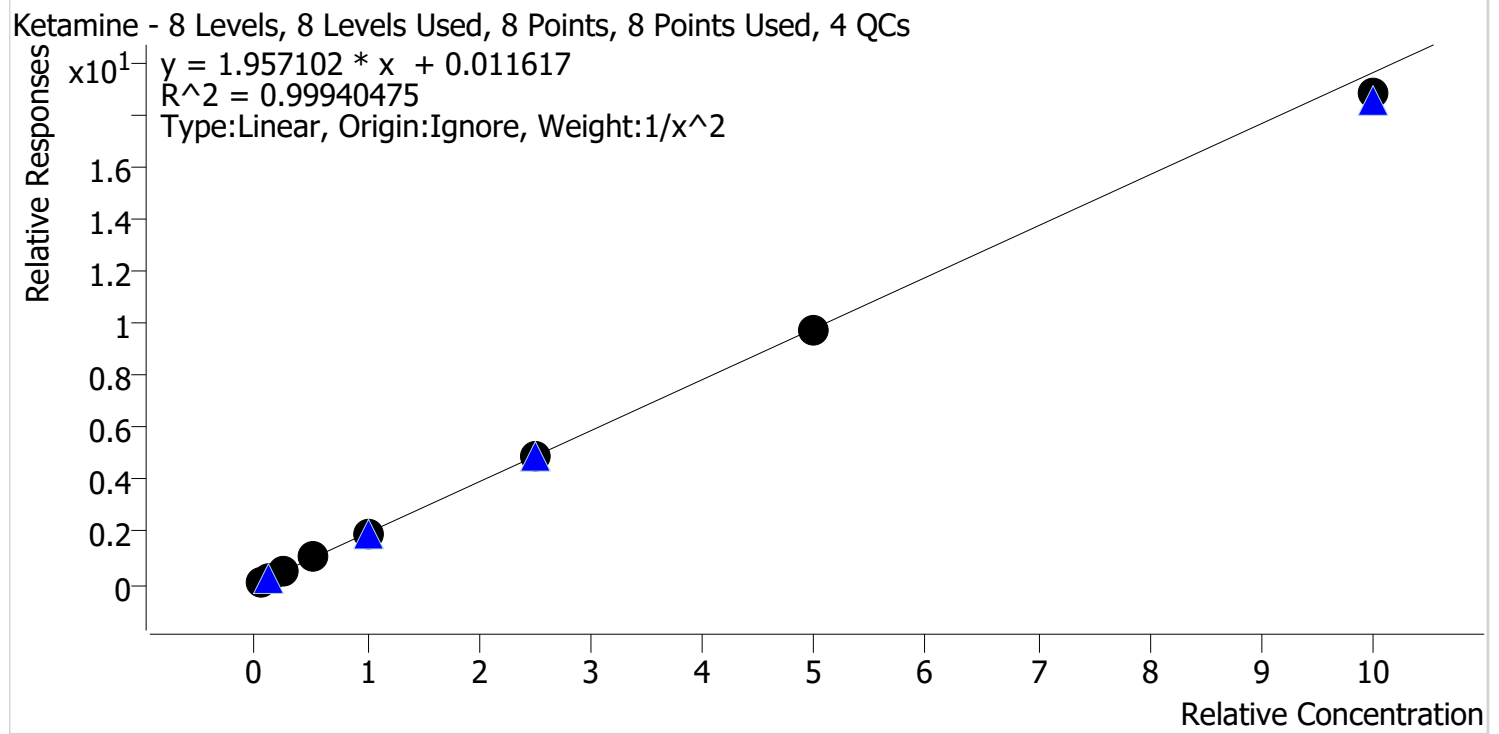
Hydromorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.8
cal 2	2	✓	10.0	10.1	101.0
cal 3	3	✓	25.0	24.5	98.2
cal 4	4	✓	50.0	49.8	99.6
cal 5	5	✓	100.0	98.4	98.4
cal 6	6	✓	250.0	250.1	100.0
cal 7	7	✓	500.0	498.4	99.7
cal 8	8	✓	1000.0	1003.5	100.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4



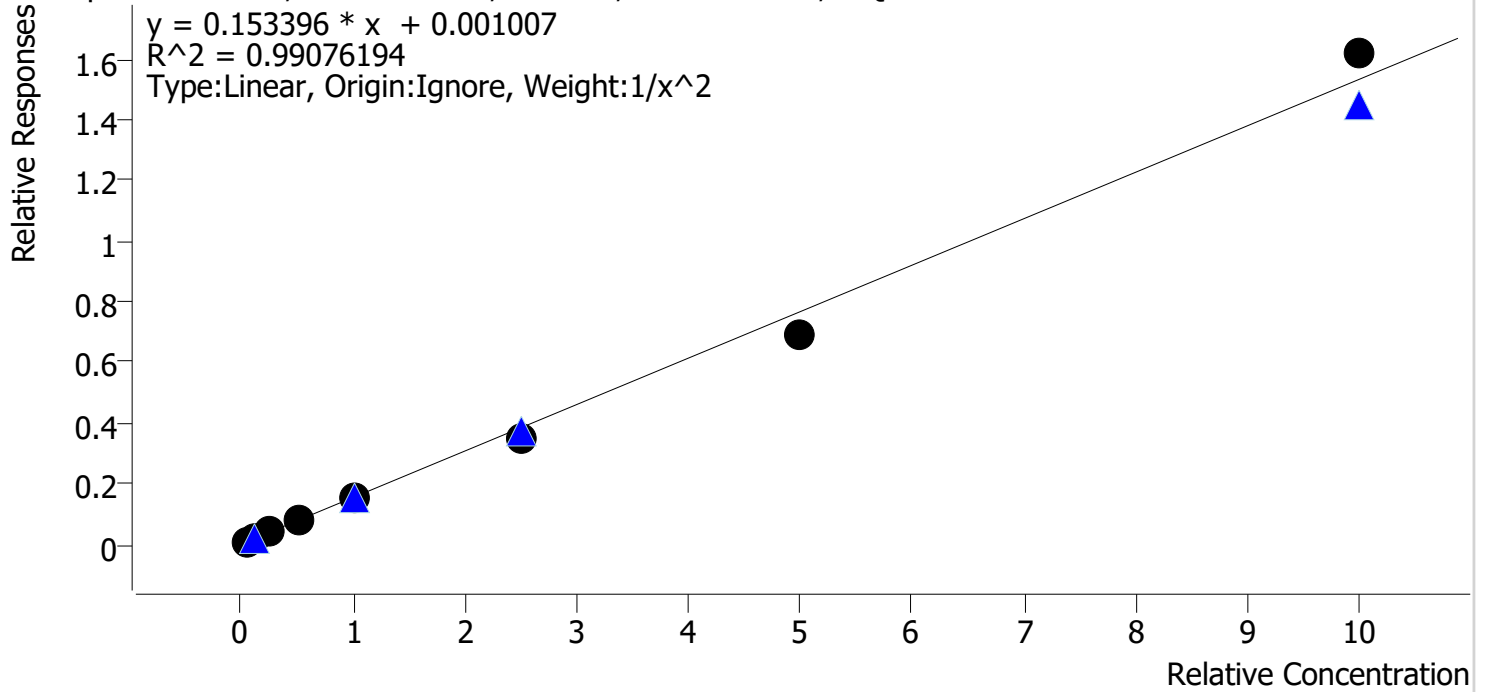
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.8
cal 2	2	✓	10.0	10.1	101.4
cal 3	3	✓	25.0	25.3	101.1
cal 4	4	✓	50.0	51.3	102.6
cal 5	5	✓	100.0	99.6	99.6
cal 6	6	✓	250.0	253.7	101.5
cal 7	7	✓	500.0	495.8	99.2
cal 8	8	✓	1000.0	958.8	95.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Alprazolam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.5
cal 2	2	✓	10.0	11.0	110.2
cal 3	3	✓	25.0	26.1	104.5
cal 4	4	✓	50.0	54.6	109.3
cal 5	5	✓	100.0	96.8	96.8
cal 6	6	✓	250.0	225.5	90.2
cal 7	7	✓	500.0	449.8	90.0
cal 8	8	✓	1000.0	1055.4	105.5

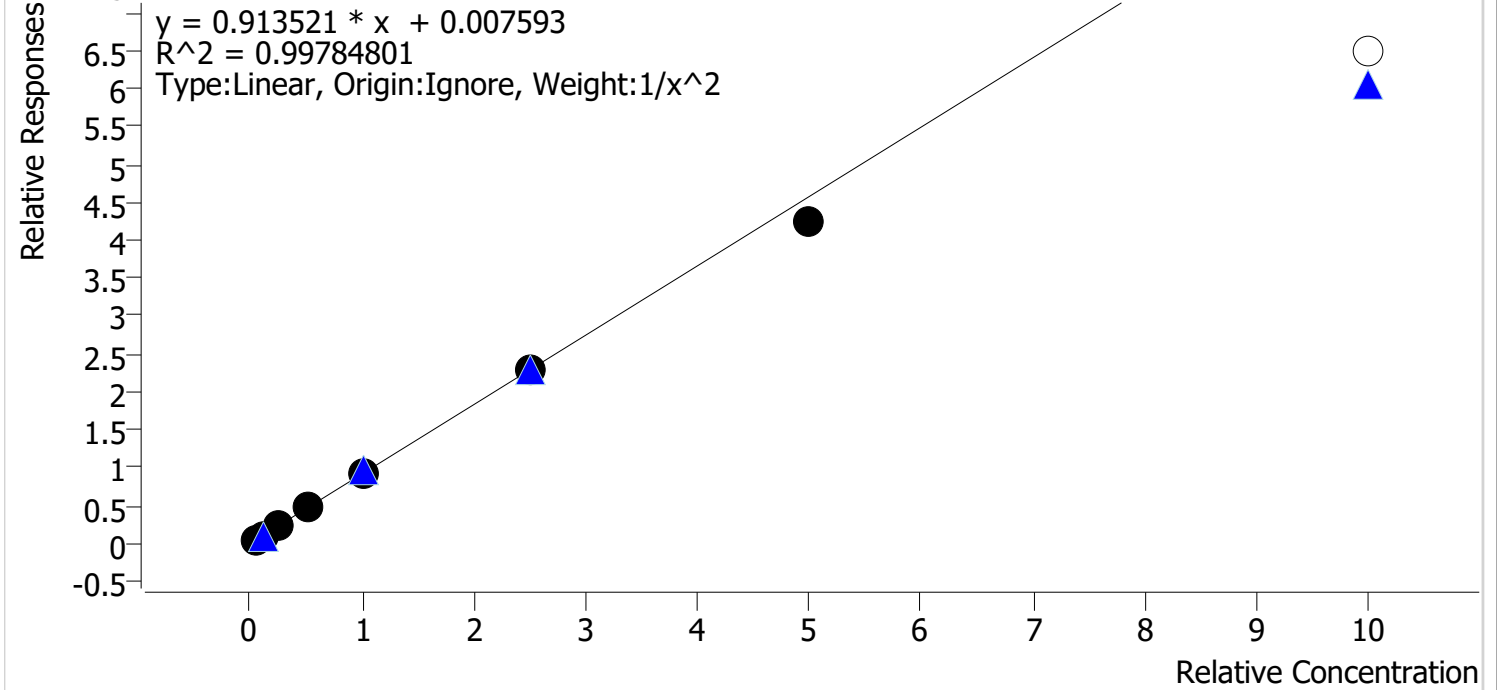
Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Lamotrigine

Internal Standard

Meprobamate-D7

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

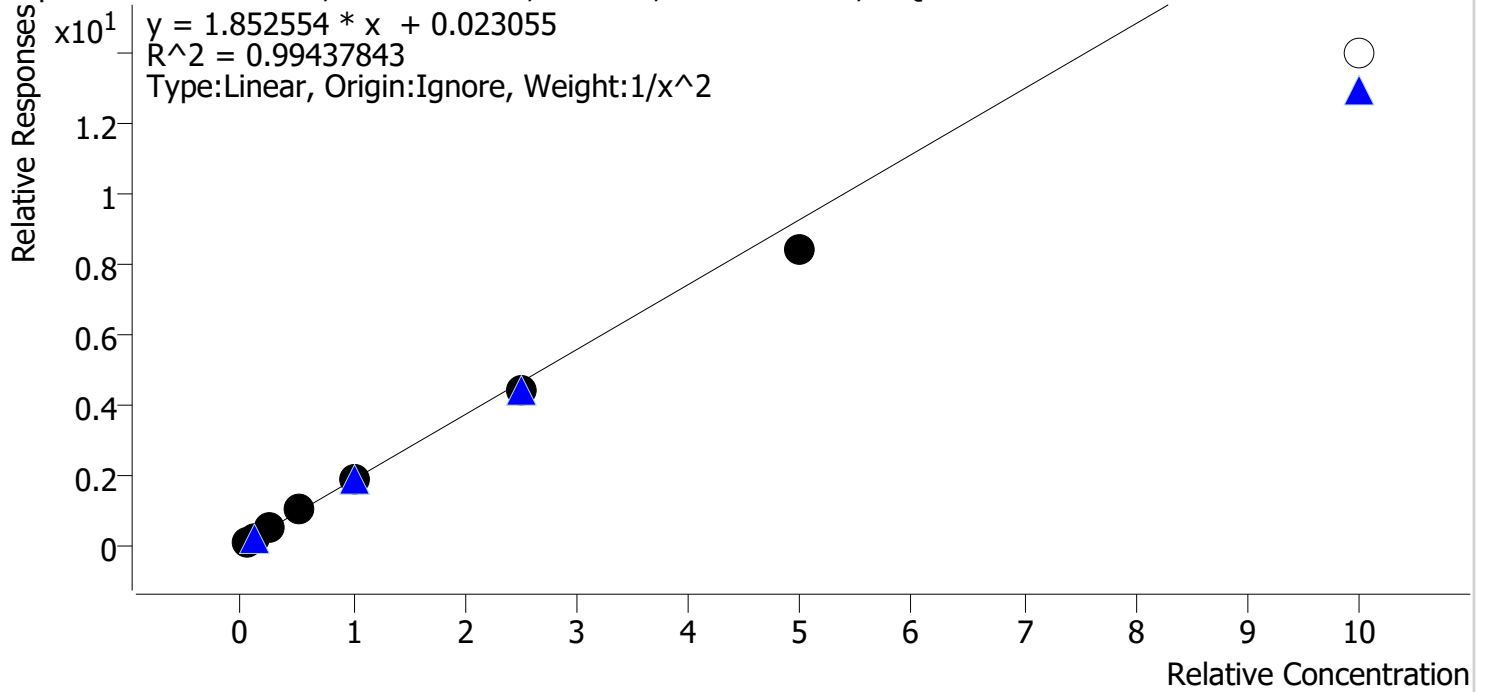


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.7
cal 2	2	✓	10.0	9.9	98.6
cal 3	3	✓	25.0	25.7	102.7
cal 4	4	✓	50.0	52.1	104.2
cal 5	5	✓	100.0	102.6	102.6
cal 6	6	✓	250.0	249.4	99.7
cal 7	7	✓	500.0	461.9	92.4
cal 8	8	✗	1000.0	708.9	70.9

Compound Calibration Report

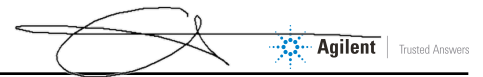
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

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



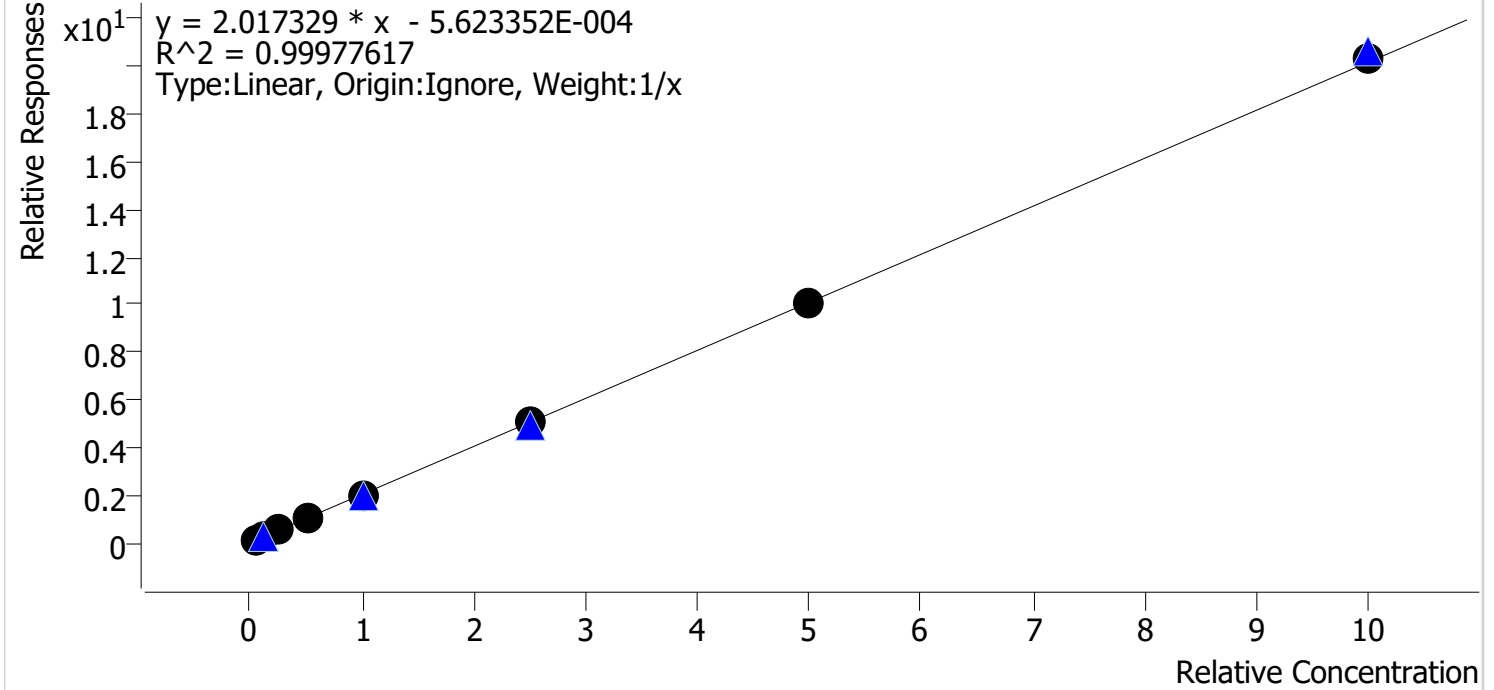
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	9.5	95.5
cal 3	3	✓	25.0	26.6	106.3
cal 4	4	✓	50.0	54.2	108.4
cal 5	5	✓	100.0	102.9	102.9
cal 6	6	✓	250.0	240.1	96.0
cal 7	7	✓	500.0	453.4	90.7
cal 8	8	✗	1000.0	754.3	75.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

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



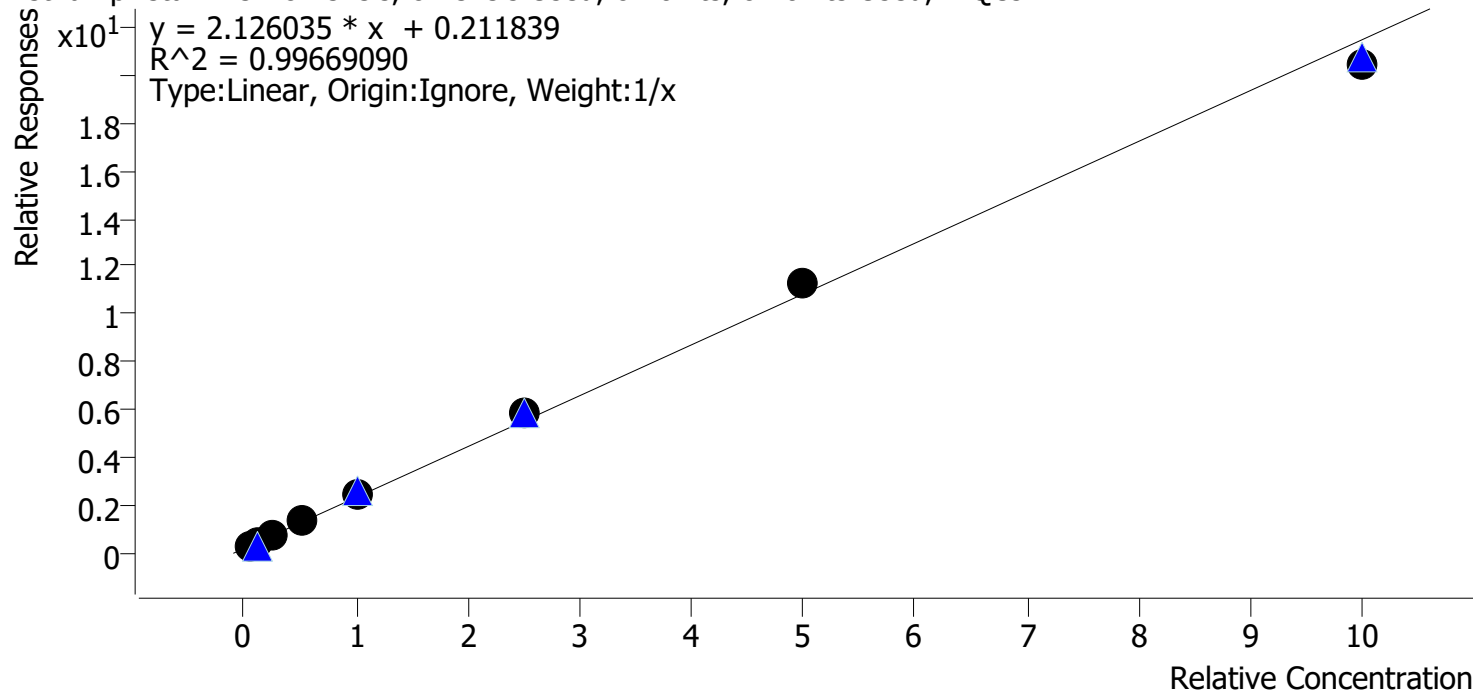
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.5
cal 2	2	✓	10.0	9.9	99.2
cal 3	3	✓	25.0	24.5	97.9
cal 4	4	✓	50.0	49.5	99.1
cal 5	5	✓	100.0	94.5	94.5
cal 6	6	✓	250.0	251.3	100.5
cal 7	7	✓	500.0	499.5	99.9
cal 8	8	✓	1000.0	1005.4	100.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** **Methamphetamine-D11**

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

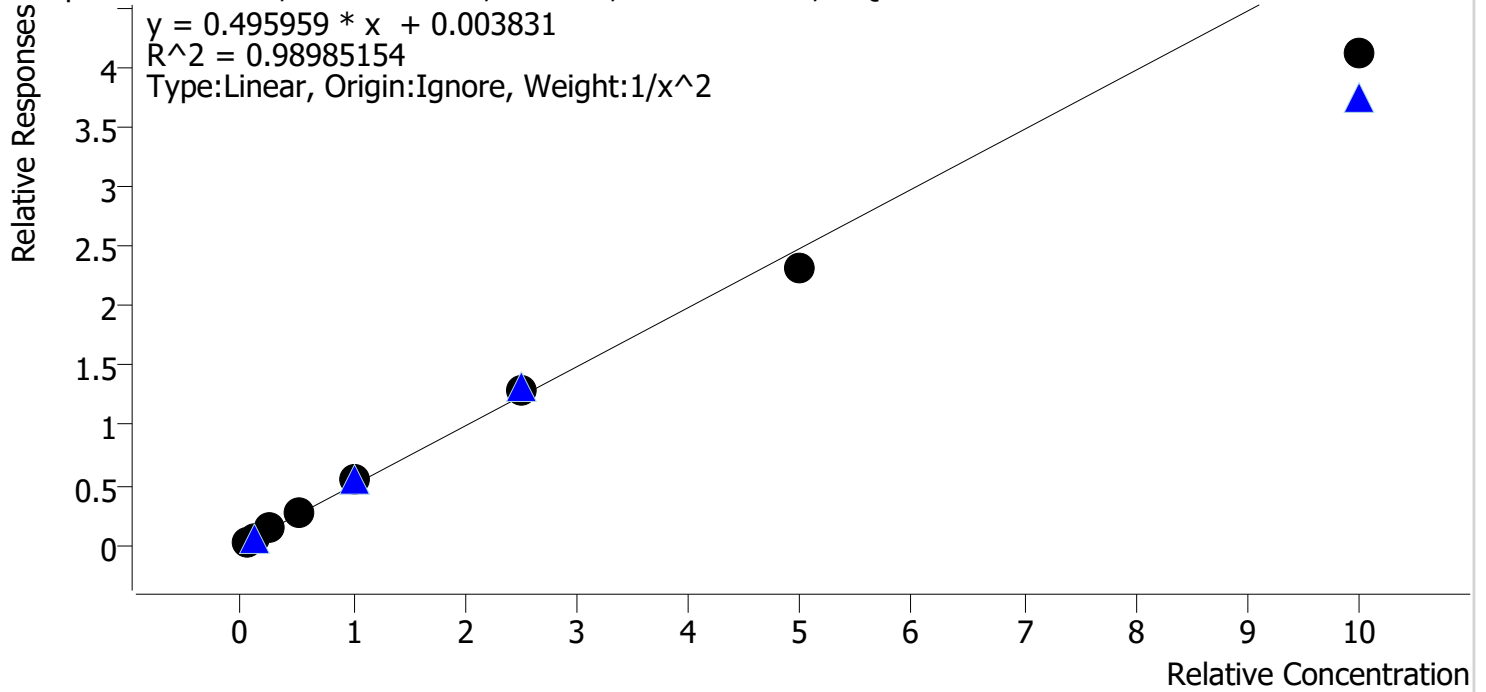


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.9
cal 2	2	✓	10.0	8.3	82.6
cal 3	3	✓	25.0	23.0	92.1
cal 4	4	✓	50.0	57.7	115.4
cal 5	5	✓	100.0	103.4	103.4
cal 6	6	✓	250.0	267.5	107.0
cal 7	7	✓	500.0	520.3	104.1
cal 8	8	✓	1000.0	954.7	95.5

Compound Calibration Report

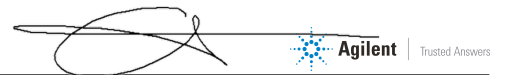
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Ketamine-D4

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



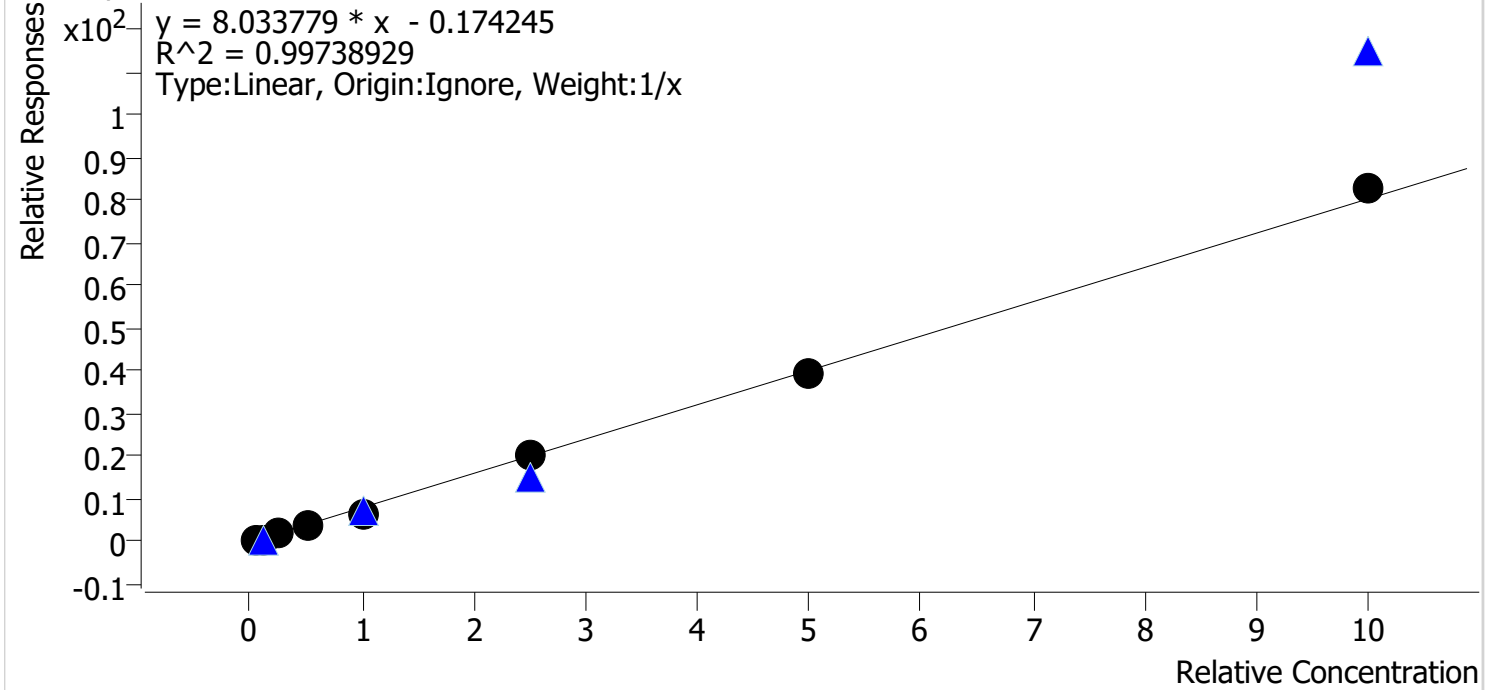
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.9
cal 2	2	✓	10.0	10.1	101.3
cal 3	3	✓	25.0	26.5	105.9
cal 4	4	✓	50.0	54.6	109.3
cal 5	5	✓	100.0	107.3	107.3
cal 6	6	✓	250.0	258.5	103.4
cal 7	7	✓	500.0	465.0	93.0
cal 8	8	✓	1000.0	828.4	82.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** Hydromorphone-D6

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

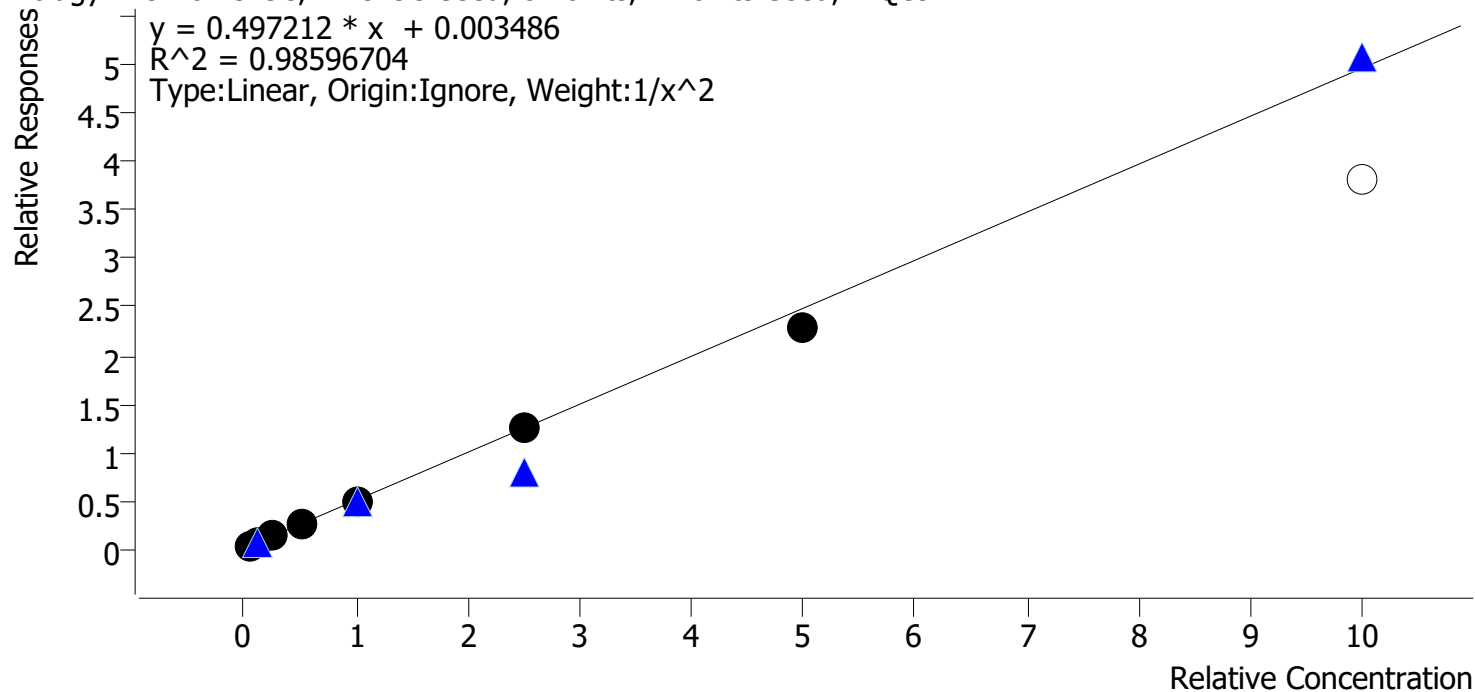


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	6.4	127.5
cal 2	2	✓	10.0	8.6	85.5
cal 3	3	✓	25.0	27.4	109.7
cal 4	4	✓	50.0	45.9	91.9
cal 5	5	✓	100.0	85.3	85.3
cal 6	6	✓	250.0	249.7	99.9
cal 7	7	✓	500.0	486.1	97.2
cal 8	8	✓	1000.0	1030.6	103.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Citalopram-D6

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

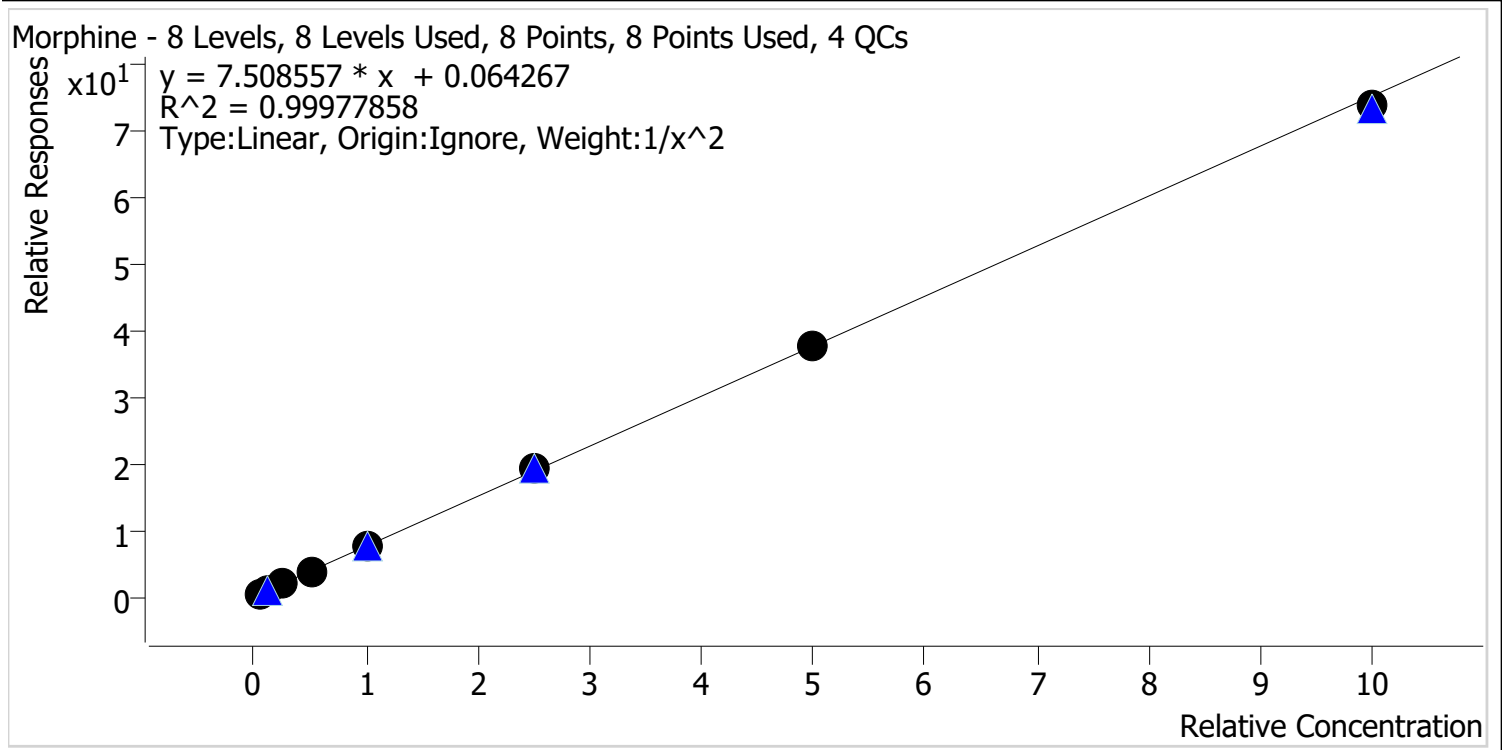


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	104.4
cal 2	2	✓	10.0	8.4	84.4
cal 3	3	✓	25.0	28.8	115.2
cal 4	4	✓	50.0	52.9	105.9
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	252.5	101.0
cal 7	7	✓	500.0	455.9	91.2
cal 8	8	✗	1000.0	770.5	77.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6



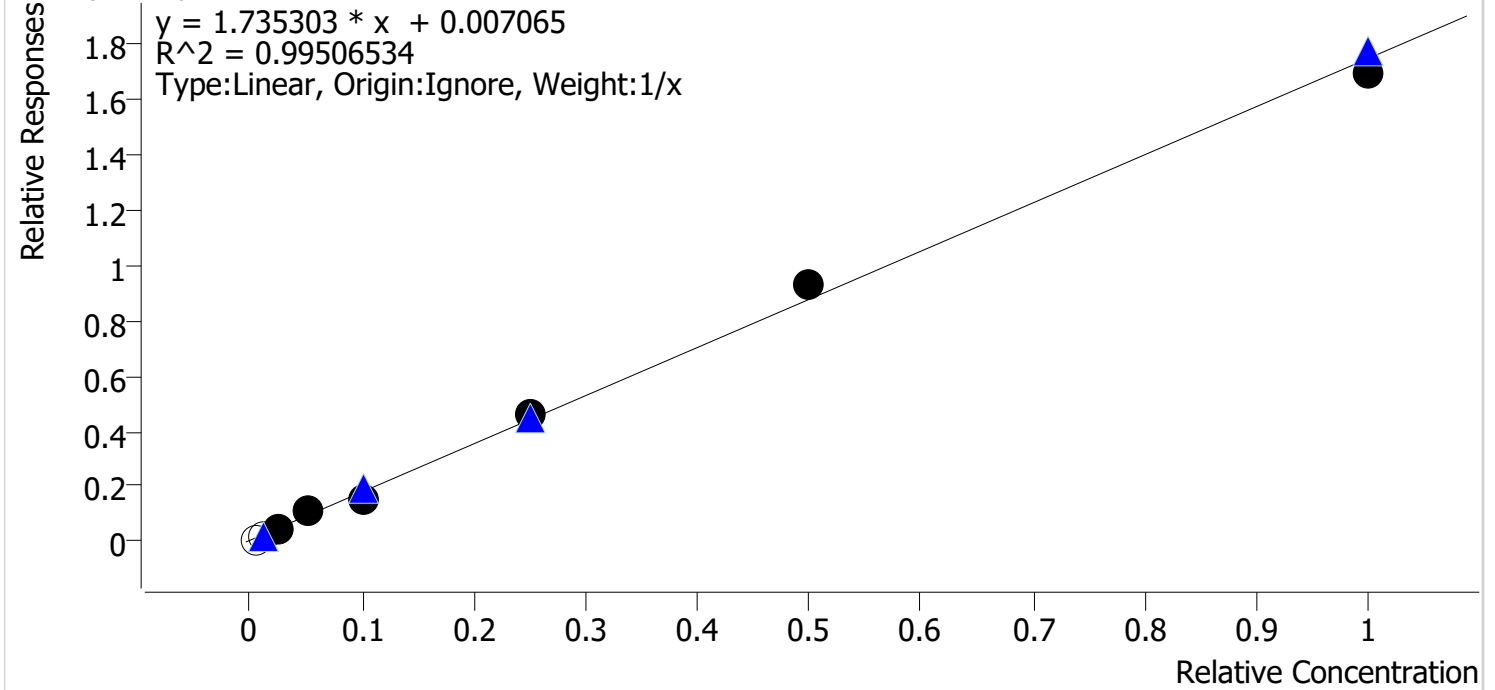
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.4
cal 2	2	✓	10.0	10.1	101.4
cal 3	3	✓	25.0	24.8	99.1
cal 4	4	✓	50.0	50.7	101.3
cal 5	5	✓	100.0	99.1	99.1
cal 6	6	✓	250.0	253.7	101.5
cal 7	7	✓	500.0	500.3	100.1
cal 8	8	✓	1000.0	981.0	98.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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



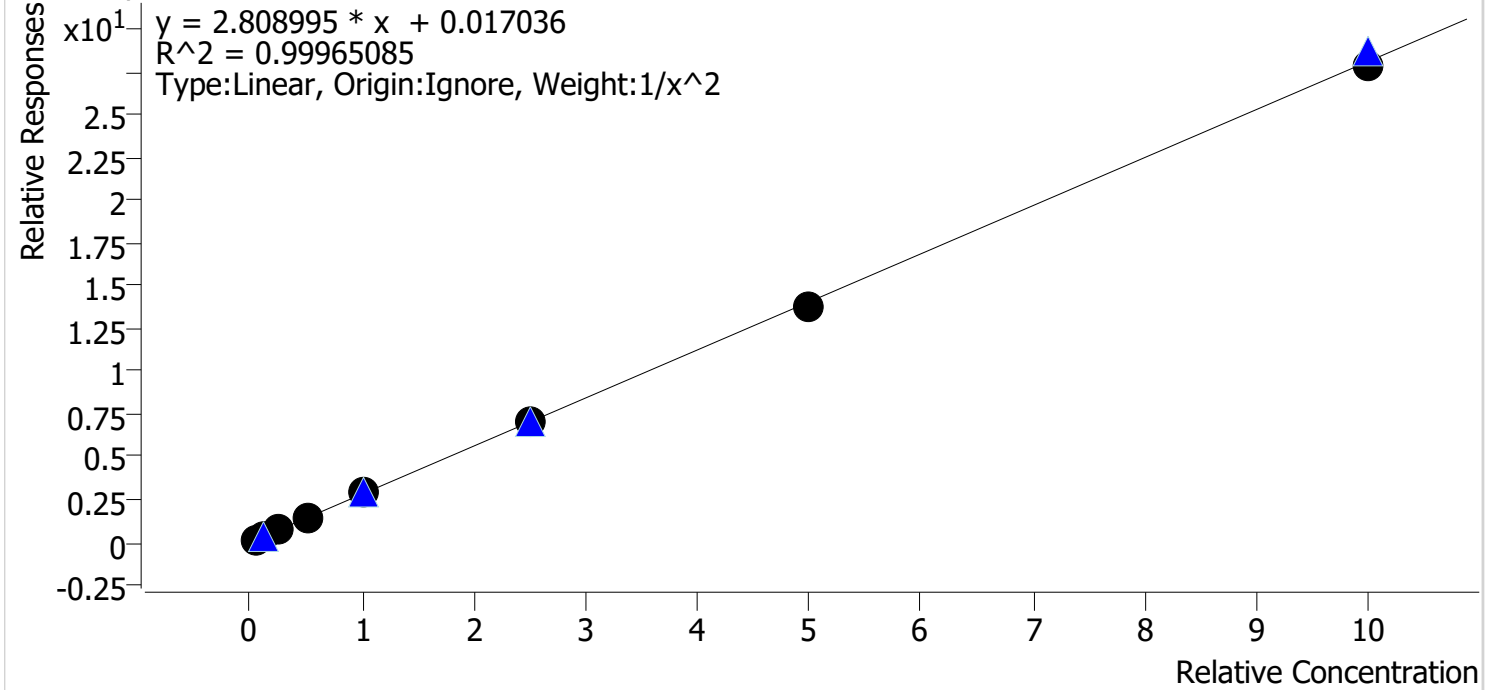
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	0.5	0.1	15.3
cal 2	2	x	1.0	0.7	69.5
cal 3	3	✓	2.5	2.3	90.4
cal 4	4	✓	5.0	5.9	118.7
cal 5	5	✓	10.0	8.5	84.6
cal 6	6	✓	25.0	25.8	103.3
cal 7	7	✓	50.0	53.0	105.9
cal 8	8	✓	100.0	97.1	97.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

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



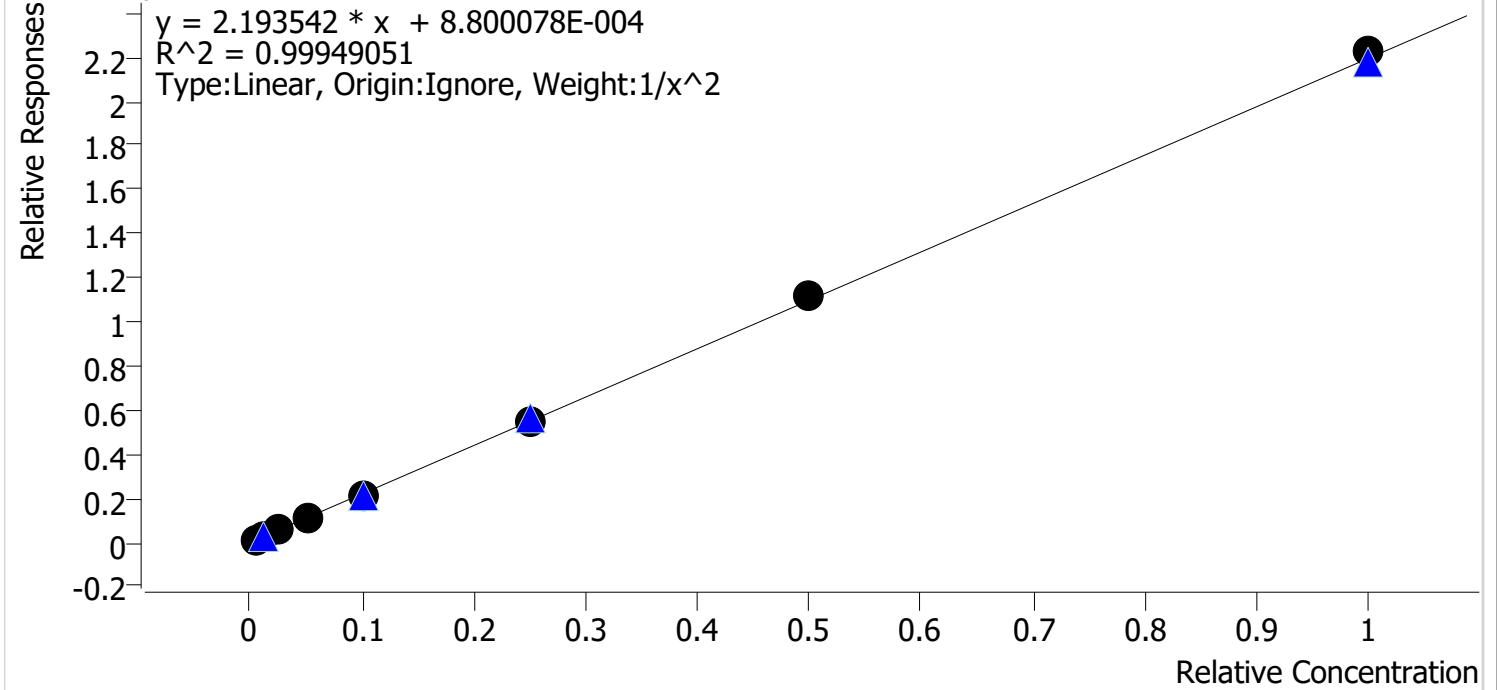
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.4
cal 2	2	✓	10.0	9.9	98.9
cal 3	3	✓	25.0	24.7	98.9
cal 4	4	✓	50.0	51.7	103.5
cal 5	5	✓	100.0	100.6	100.6
cal 6	6	✓	250.0	250.5	100.2
cal 7	7	✓	500.0	491.5	98.3
cal 8	8	✓	1000.0	992.7	99.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Norfentanyl

Internal Standard Norfentanyl-D5

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

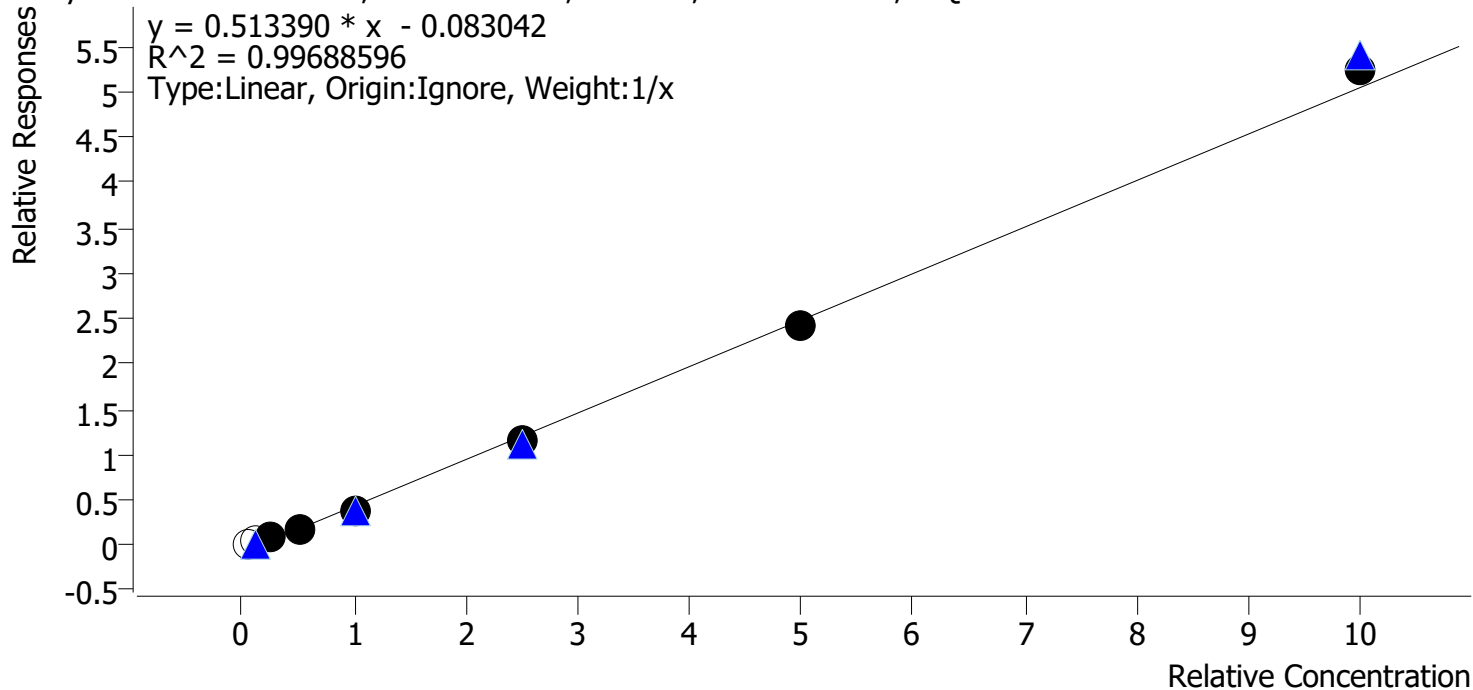


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	101.8
cal 2	2	✓	1.0	1.0	97.3
cal 3	3	✓	2.5	2.4	97.7
cal 4	4	✓	5.0	5.0	99.8
cal 5	5	✓	10.0	9.8	98.5
cal 6	6	✓	25.0	25.3	101.1
cal 7	7	✓	50.0	51.2	102.4
cal 8	8	✓	100.0	101.4	101.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



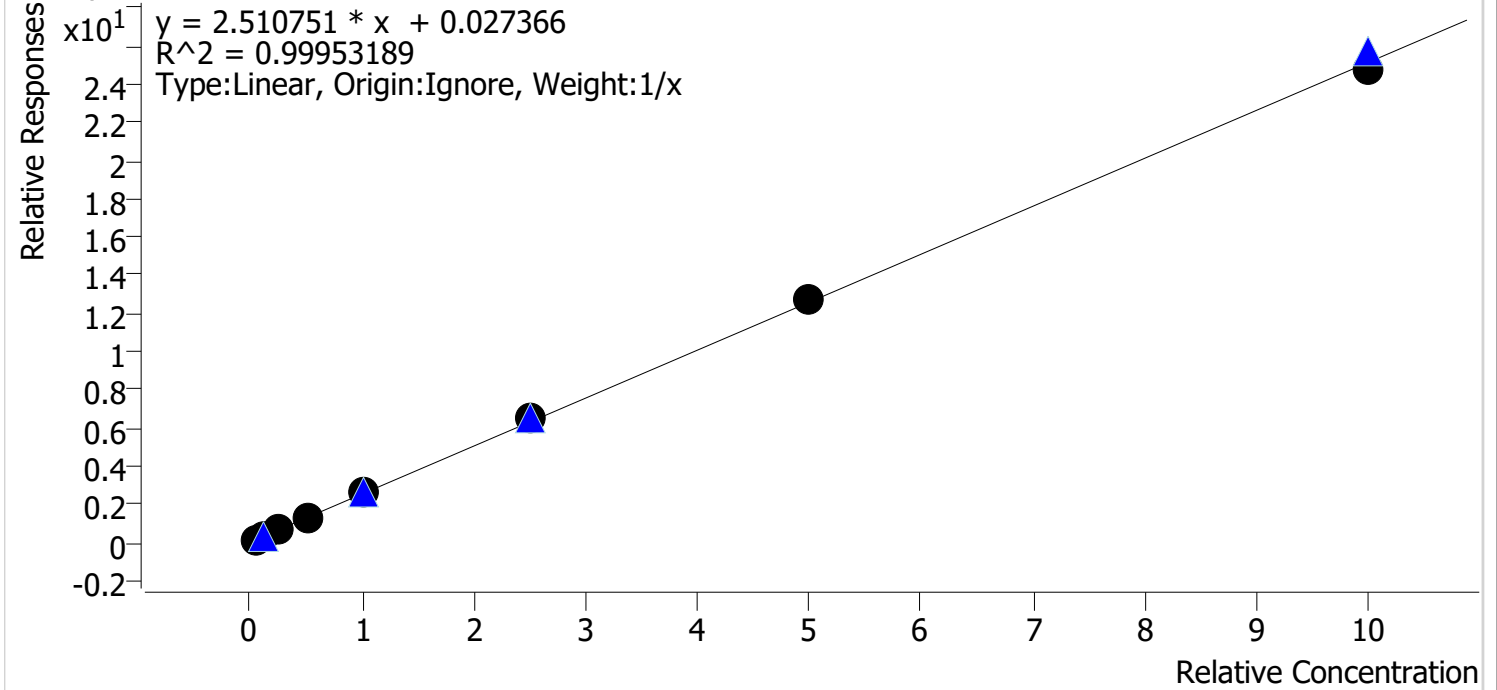
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	x	5.0	19.0	379.1
cal 2	2	x	10.0	21.8	218.1
cal 3	3	✓	25.0	30.0	120.0
cal 4	4	✓	50.0	47.7	95.4
cal 5	5	✓	100.0	89.0	89.0
cal 6	6	✓	250.0	237.2	94.9
cal 7	7	✓	500.0	486.5	97.3
cal 8	8	✓	1000.0	1034.7	103.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Noroxycodone

Internal Standard Noroxycodone-D3

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

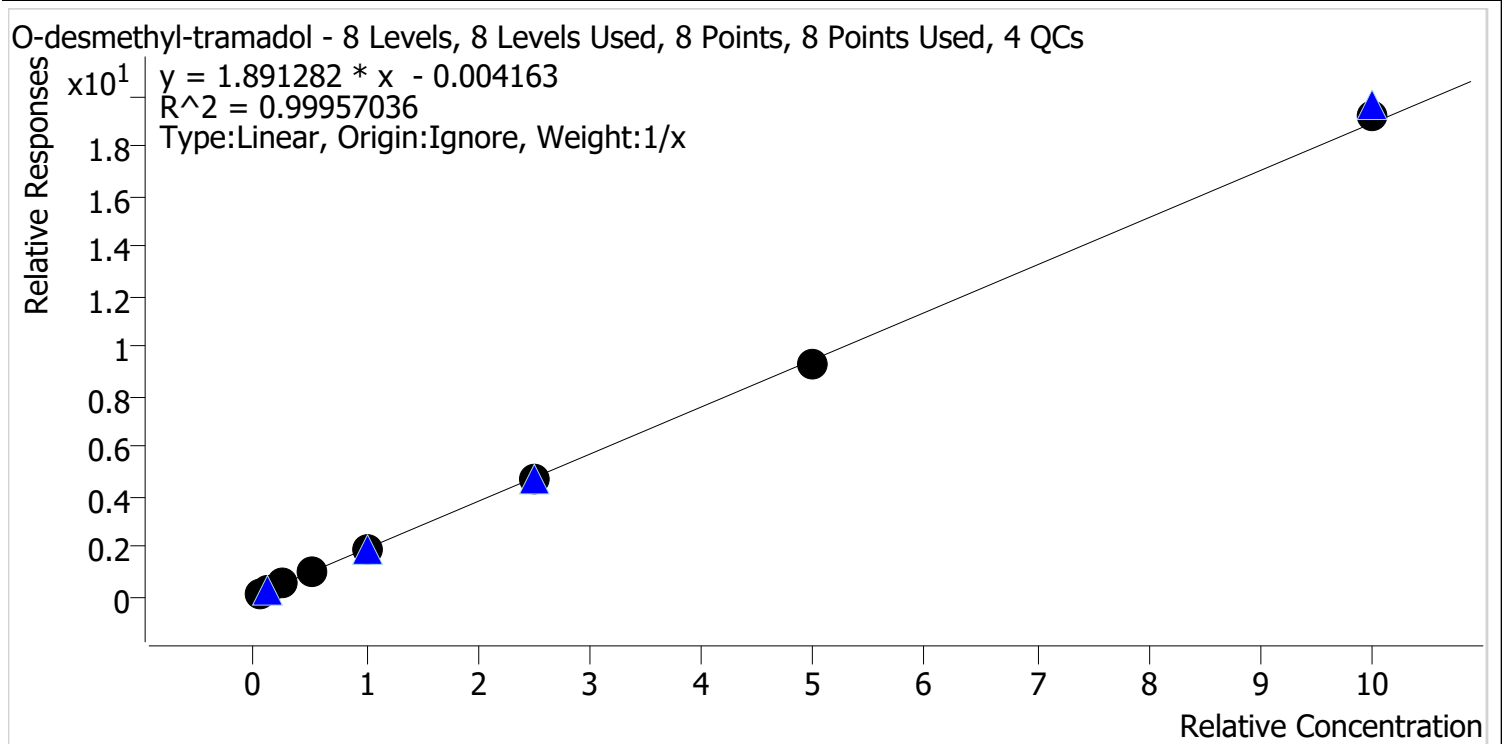


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.5	90.8
cal 2	2	✓	10.0	10.0	99.5
cal 3	3	✓	25.0	24.9	99.5
cal 4	4	✓	50.0	52.2	104.5
cal 5	5	✓	100.0	103.7	103.7
cal 6	6	✓	250.0	255.8	102.3
cal 7	7	✓	500.0	506.7	101.3
cal 8	8	✓	1000.0	982.1	98.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



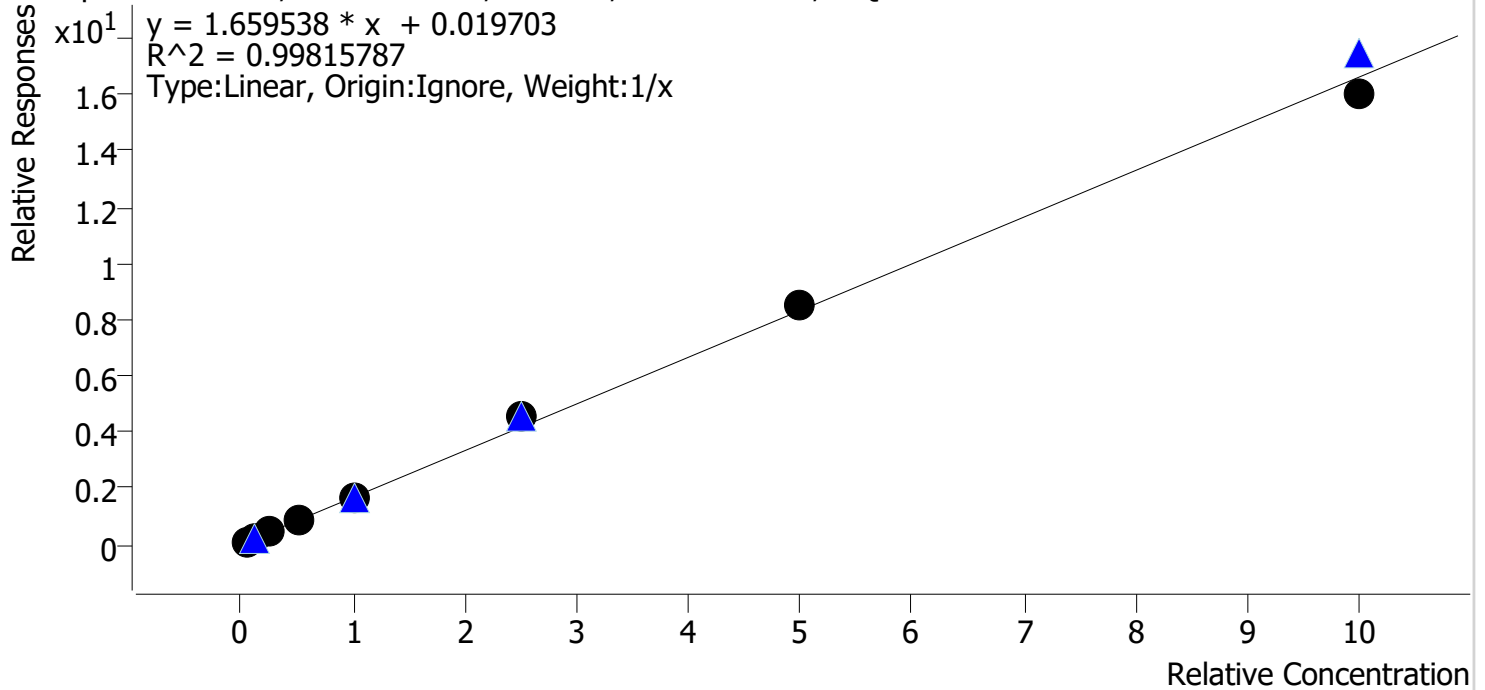
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	110.0
cal 2	2	✓	10.0	10.1	101.0
cal 3	3	✓	25.0	24.3	97.0
cal 4	4	✓	50.0	49.1	98.2
cal 5	5	✓	100.0	95.5	95.5
cal 6	6	✓	250.0	244.8	97.9
cal 7	7	✓	500.0	493.9	98.8
cal 8	8	✓	1000.0	1016.9	101.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

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



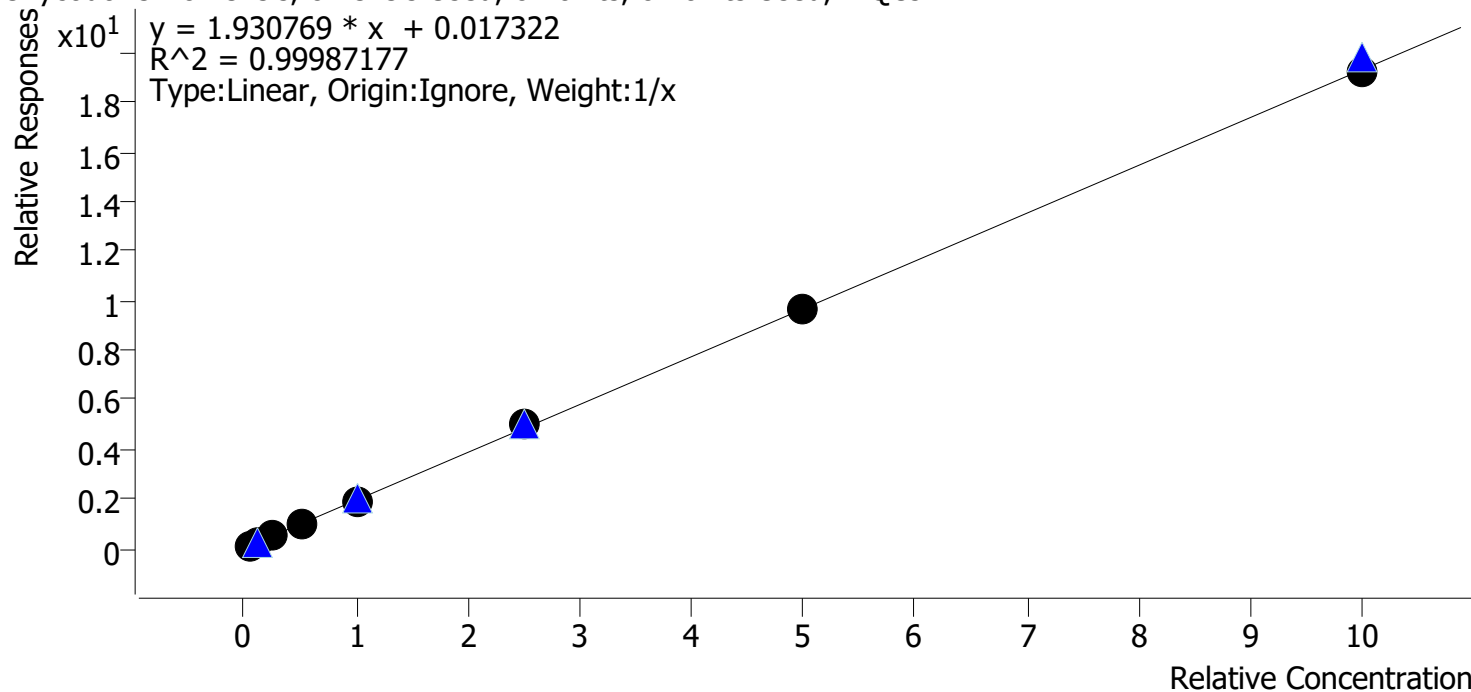
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.4
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	24.4	97.5
cal 4	4	✓	50.0	51.1	102.2
cal 5	5	✓	100.0	97.4	97.4
cal 6	6	✓	250.0	271.1	108.5
cal 7	7	✓	500.0	513.2	102.6
cal 8	8	✓	1000.0	968.2	96.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Oxycodone

Internal Standard Oxycodone-D6

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



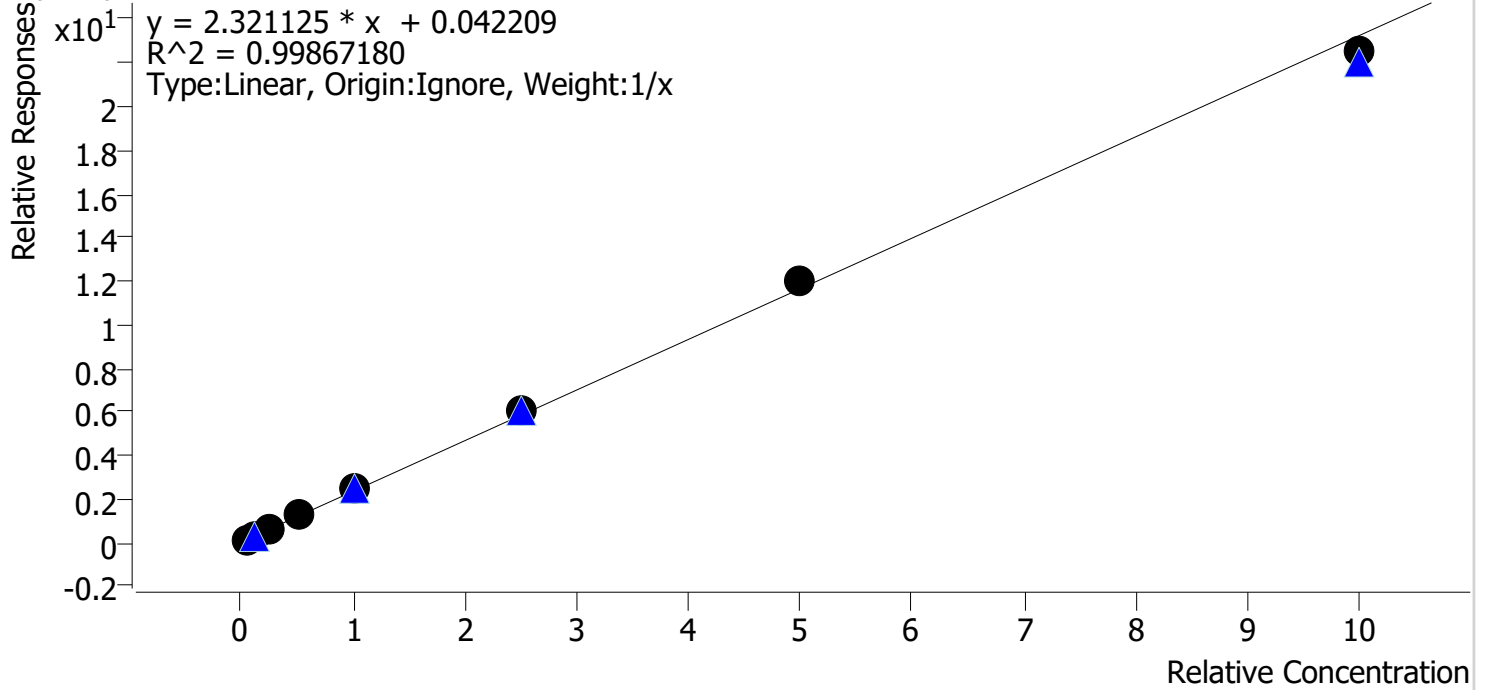
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.2
cal 2	2	✓	10.0	9.9	98.8
cal 3	3	✓	25.0	25.0	100.0
cal 4	4	✓	50.0	51.7	103.3
cal 5	5	✓	100.0	100.3	100.3
cal 6	6	✓	250.0	255.5	102.2
cal 7	7	✓	500.0	499.4	99.9
cal 8	8	✓	1000.0	993.5	99.4

Compound Calibration Report



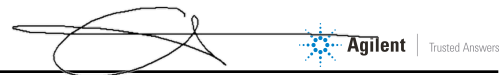
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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



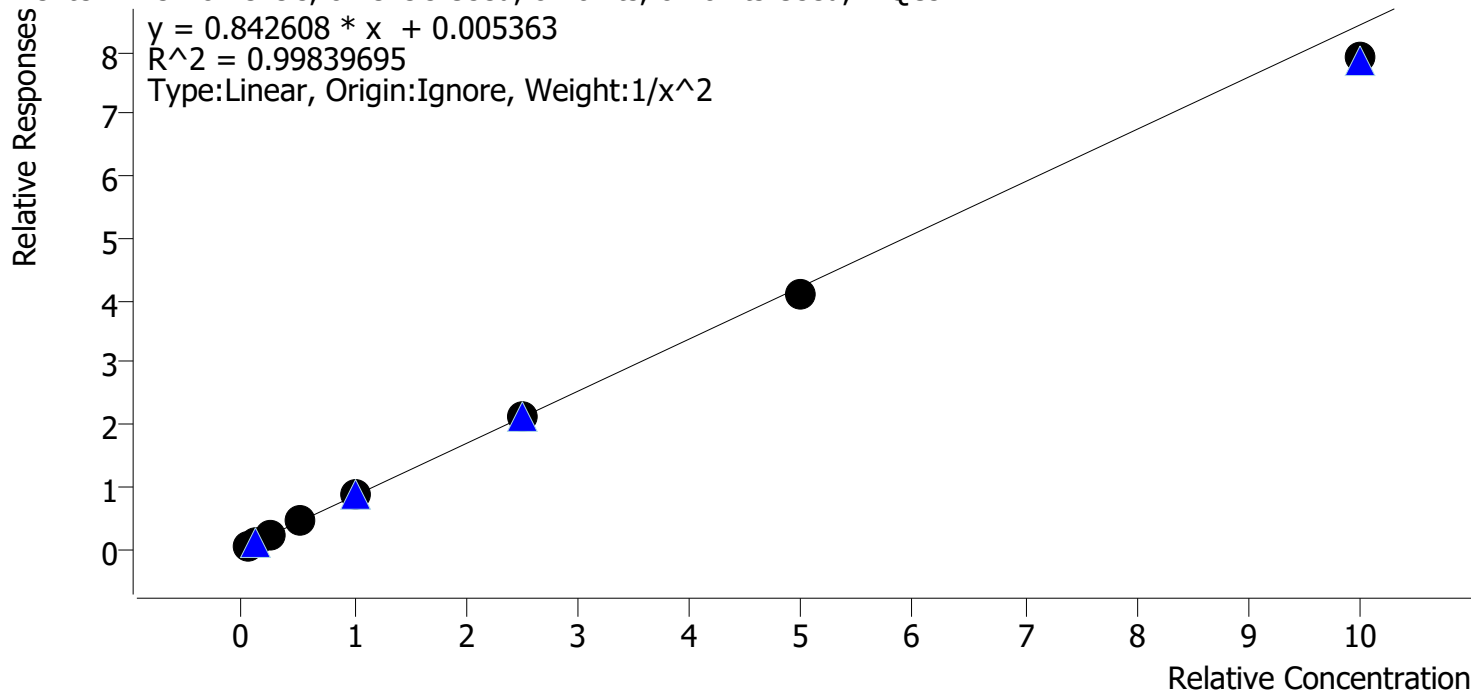
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.3	85.9
cal 2	2	✓	10.0	9.7	96.8
cal 3	3	✓	25.0	25.8	103.1
cal 4	4	✓	50.0	53.3	106.7
cal 5	5	✓	100.0	104.7	104.7
cal 6	6	✓	250.0	256.0	102.4
cal 7	7	✓	500.0	517.8	103.6
cal 8	8	✓	1000.0	968.4	96.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

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



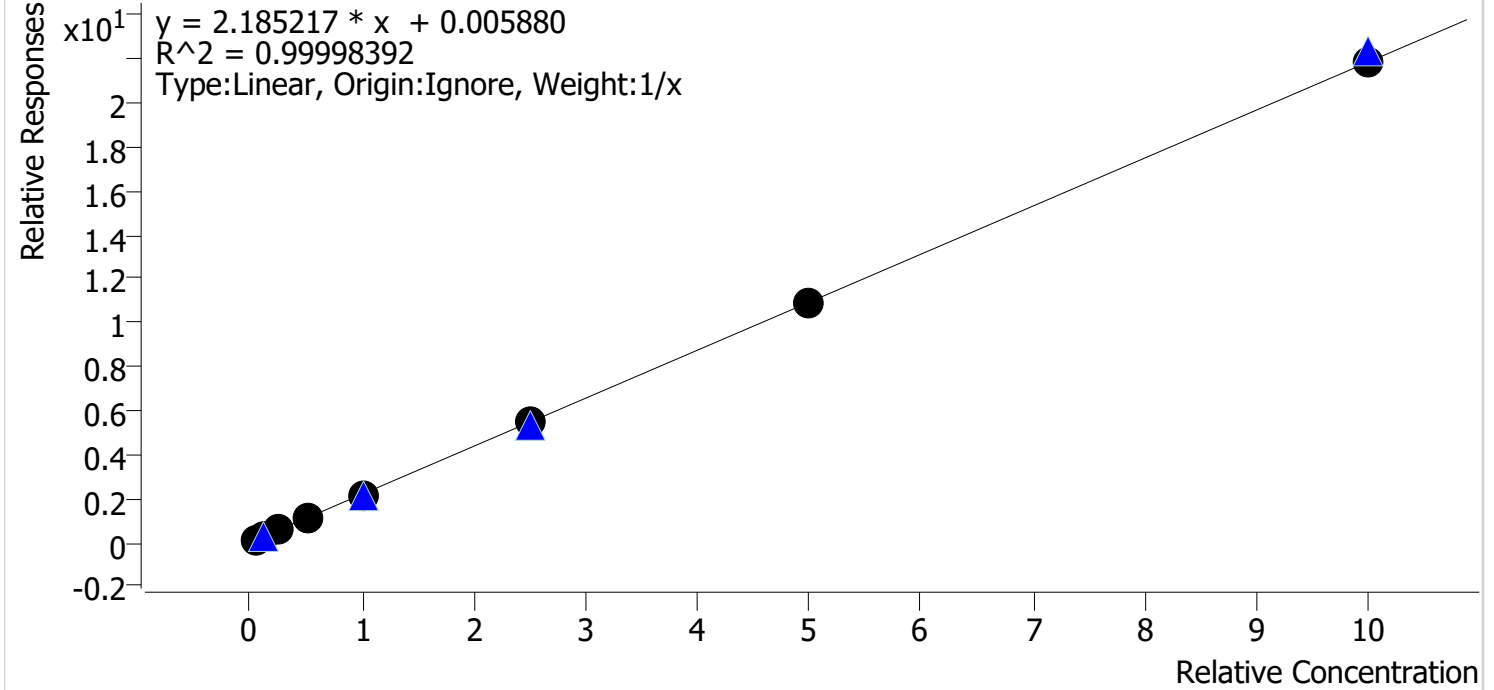
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.2
cal 2	2	✓	10.0	10.0	99.6
cal 3	3	✓	25.0	25.5	102.1
cal 4	4	✓	50.0	52.4	104.8
cal 5	5	✓	100.0	102.8	102.8
cal 6	6	✓	250.0	251.9	100.8
cal 7	7	✓	500.0	485.0	97.0
cal 8	8	✓	1000.0	937.4	93.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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



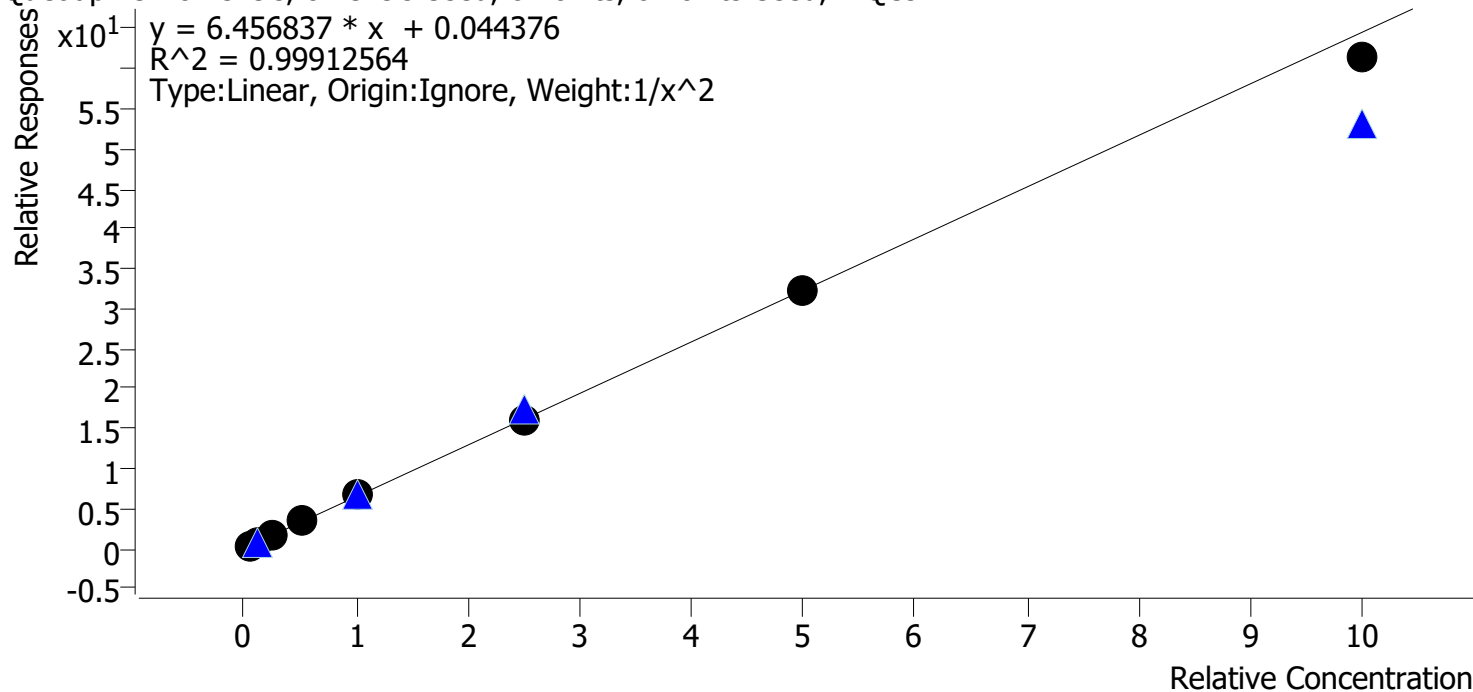
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.8
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	24.3	97.3
cal 4	4	✓	50.0	50.0	100.0
cal 5	5	✓	100.0	99.9	99.9
cal 6	6	✓	250.0	249.0	99.6
cal 7	7	✓	500.0	500.6	100.1
cal 8	8	✓	1000.0	1001.0	100.1

Compound Calibration Report



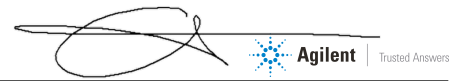
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

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



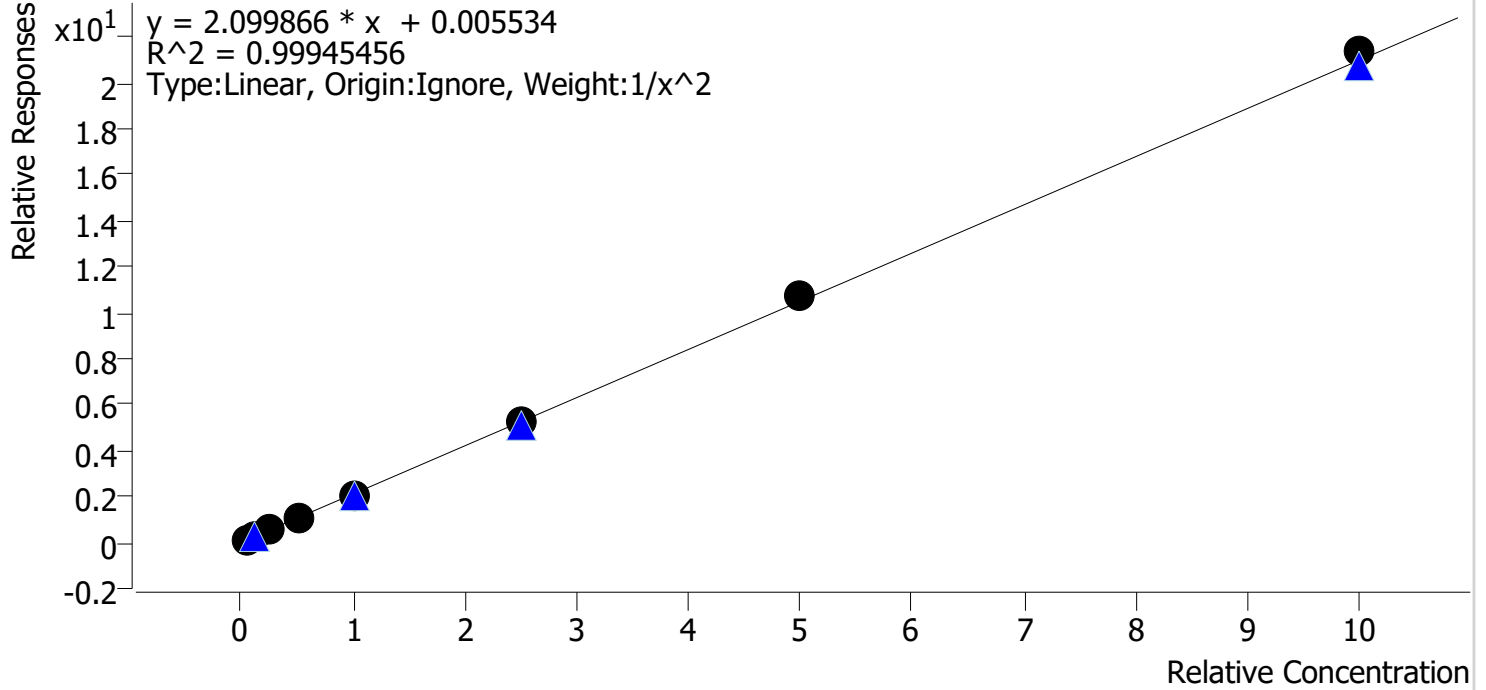
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.1
cal 2	2	✓	10.0	10.3	102.7
cal 3	3	✓	25.0	25.3	101.3
cal 4	4	✓	50.0	51.4	102.8
cal 5	5	✓	100.0	101.1	101.1
cal 6	6	✓	250.0	248.2	99.3
cal 7	7	✓	500.0	498.5	99.7
cal 8	8	✓	1000.0	950.9	95.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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

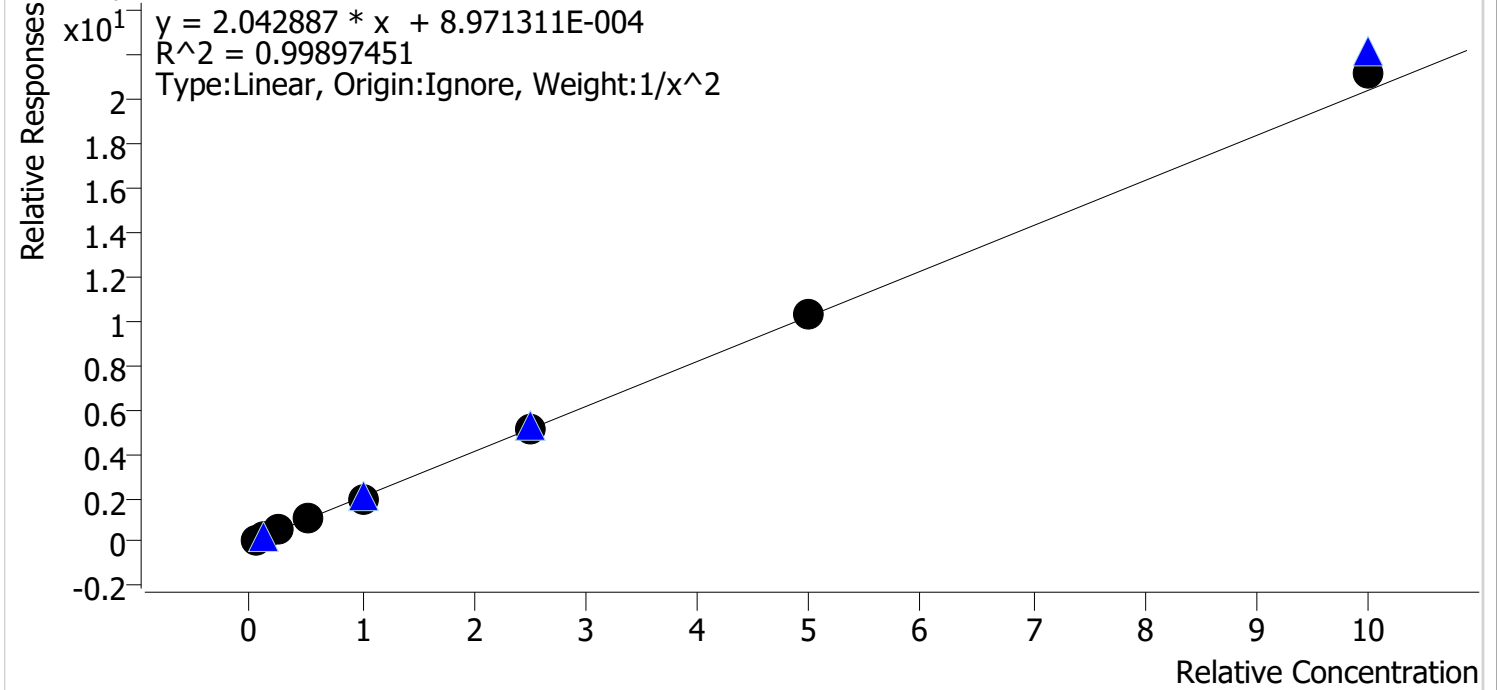


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	25.0	24.5	98.1
cal 4	4	✓	50.0	51.0	102.1
cal 5	5	✓	100.0	96.2	96.2
cal 6	6	✓	250.0	249.0	99.6
cal 7	7	✓	500.0	508.7	101.7
cal 8	8	✓	1000.0	1018.1	101.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

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

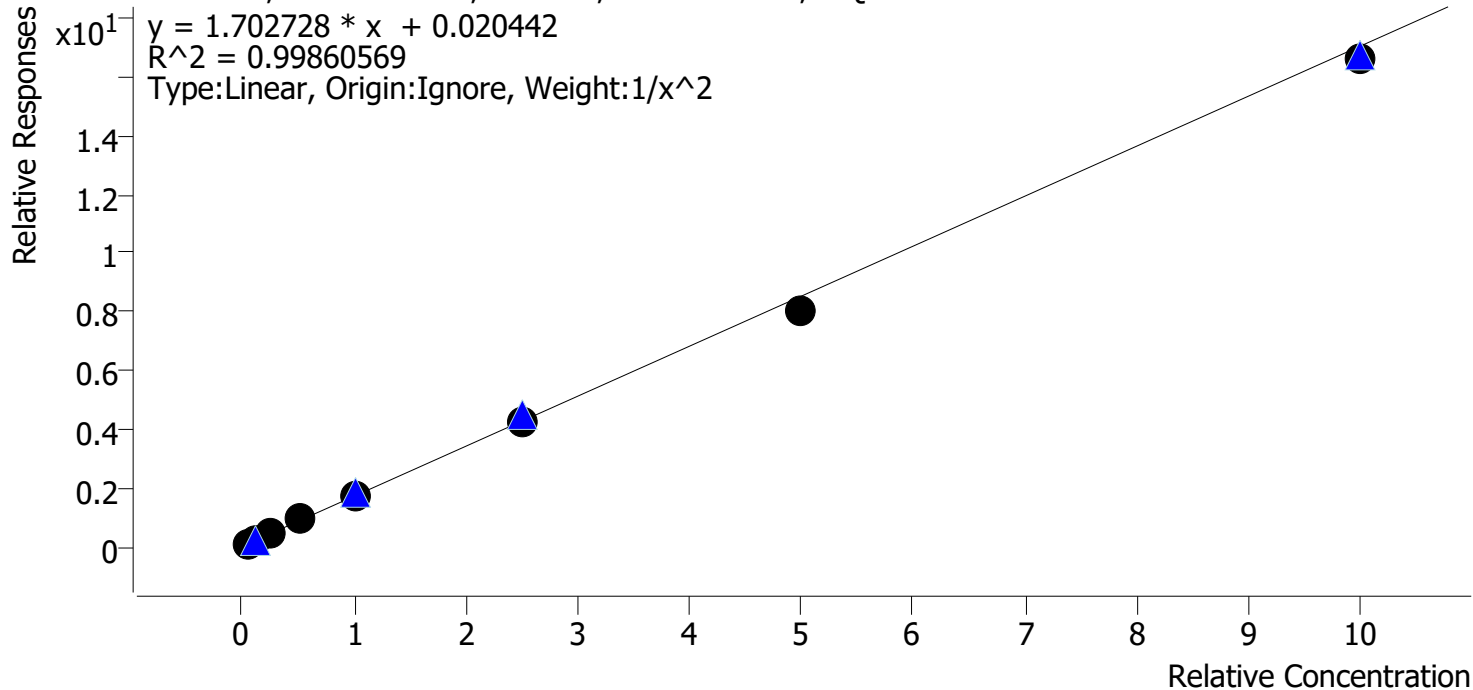


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.1
cal 2	2	✓	10.0	9.9	99.1
cal 3	3	✓	25.0	24.3	97.2
cal 4	4	✓	50.0	50.3	100.6
cal 5	5	✓	100.0	95.2	95.2
cal 6	6	✓	250.0	253.3	101.3
cal 7	7	✓	500.0	506.5	101.3
cal 8	8	✓	1000.0	1041.6	104.2

Compound Calibration Report

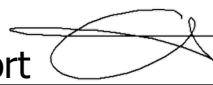
Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

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



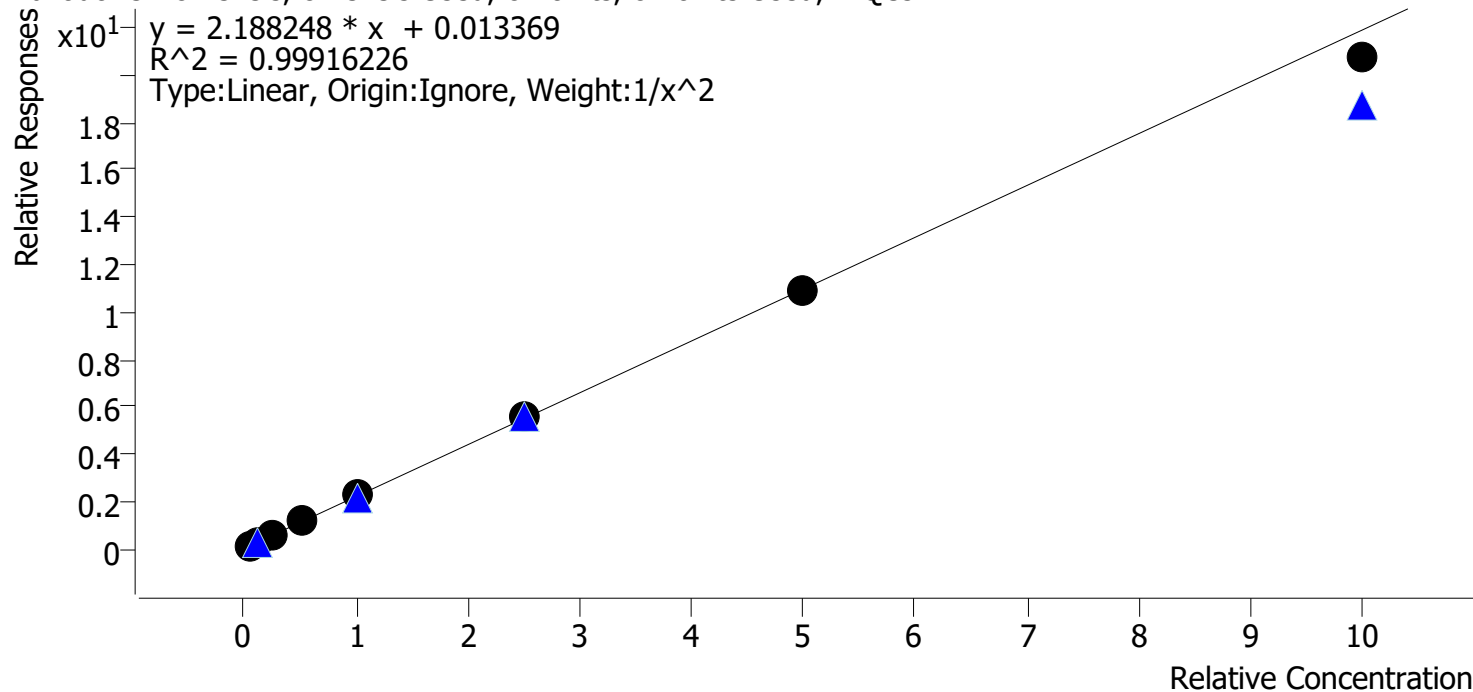
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	10.1	101.2
cal 3	3	✓	25.0	25.4	101.5
cal 4	4	✓	50.0	52.6	105.2
cal 5	5	✓	100.0	102.1	102.1
cal 6	6	✓	250.0	248.4	99.4
cal 7	7	✓	500.0	473.2	94.6
cal 8	8	✓	1000.0	973.9	97.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

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



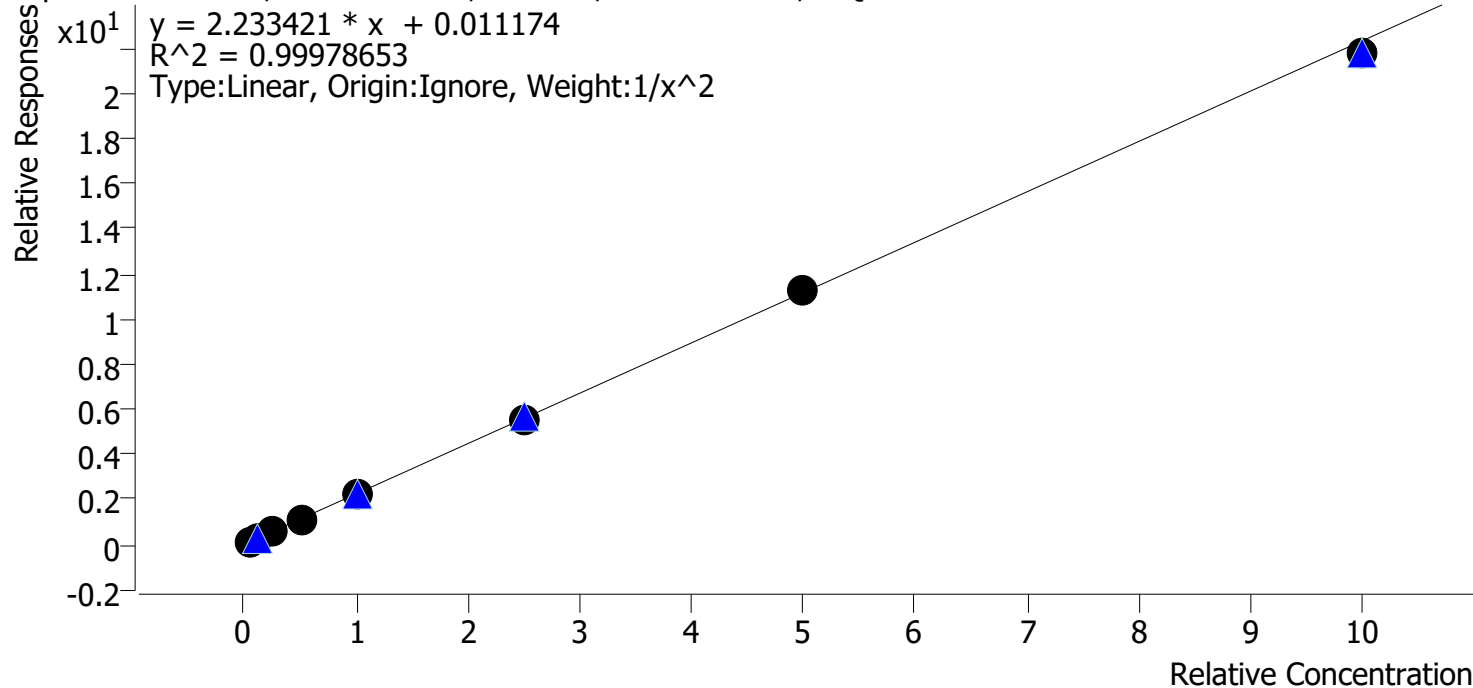
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.3
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	25.3	101.2
cal 4	4	✓	50.0	51.2	102.3
cal 5	5	✓	100.0	102.4	102.4
cal 6	6	✓	250.0	252.5	101.0
cal 7	7	✓	500.0	493.8	98.8
cal 8	8	✓	1000.0	946.8	94.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Last Cal. Update 12/31/2019 2:35 PM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

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



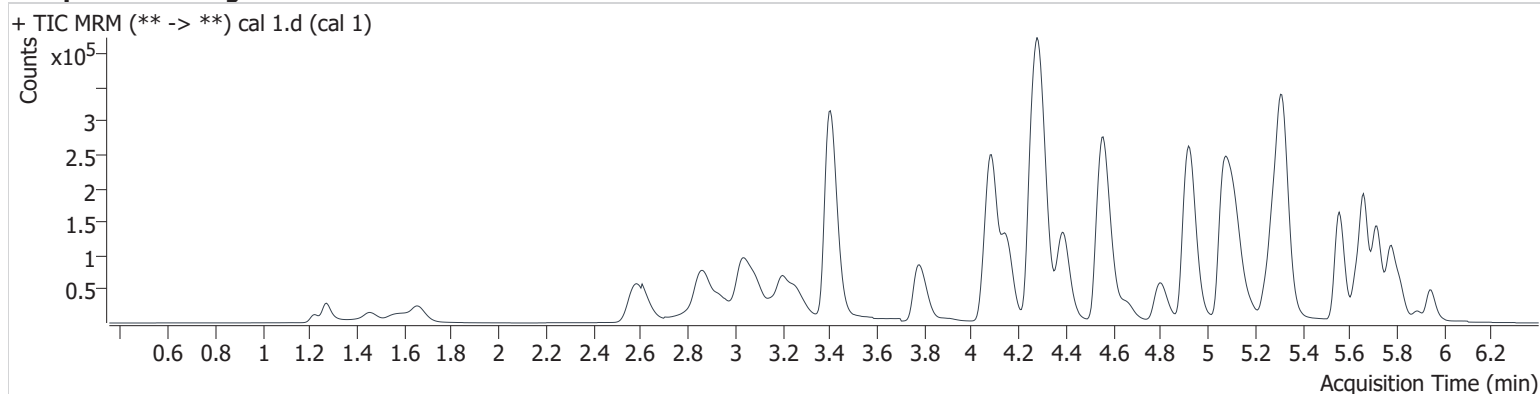
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.4
cal 2	2	✓	10.0	10.1	100.6
cal 3	3	✓	25.0	25.1	100.6
cal 4	4	✓	50.0	50.9	101.8
cal 5	5	✓	100.0	100.3	100.3
cal 6	6	✓	250.0	249.4	99.7
cal 7	7	✓	500.0	501.2	100.2
cal 8	8	✓	1000.0	973.8	97.4

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** cal 1.d
Type Cal **Sample** cal 1
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-A1 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 8:05:22 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	1182	156.8	75.2	575.1	66139	0.513 ng/ml
7-aminoclonazepam	4.297	15914	5185.7	82.0	10960.4	129291	4.858 ng/ml
a-hydroxyalprazolam	5.704	950	88.5	56.1	516.5	10488	4.853 ng/ml
alpha-PVP	4.397	46313	3825.2	52.3	178.8	384110	4.916 ng/ml
Alprazolam	5.777	17973	899.3	105.8	669.0	120531	5.198 ng/ml
Amphetamine	3.101	48900	190.1	53.9	461.6	175862	4.818 ng/ml
Benzoylcegonine	3.921	3105	23.8	6.9	51.7	10203	5.230 ng/ml
Buprenorphine	5.760	417	27.2	9.5 Low	38.9	23466	0.724 ng/ml
Bupropion	4.819	25657	695.6	49.0	396.9	169294	4.993 ng/ml
Carisoprodol	5.728	13954	15588.0	60.4	216.1	126658	4.975 ng/ml
Citalopram	5.256	21403	188.5	46.6	7076.7	183352	4.958 ng/ml
Clonazepam	5.622	2734	174.8	32.9	256.0	8813	5.047 ng/ml
Cocaine	4.296	41706	64638.0	45.9	25699.8	634021	5.177 ng/ml
Codeine	2.638	7017	327.4	106.1	619.7	68580	5.051 ng/ml
Cyclobenzaprine	5.635	22650	37381.4	9.7	845.3	166987	5.030 ng/ml
Dextromethorphan	5.300	15031	350.3	81.2	944.5	140555	5.067 ng/ml
Dextrorphan	4.151	14649	18357.5	217.9	16979.1	322921	5.089 ng/ml
Diazepam	5.947	11546	530.2	87.2	5721.9	104382	5.101 ng/ml
Dihydrocodeine	2.606	18730	4898.8	63.7	1334.6	202155	4.864 ng/ml
Diphenhydramine	5.321	67498	2452.1	34.7	37965.0	702143	5.415 ng/ml
Doxylamine	4.574	116435	3452.7	97.1	2244.8	956877	5.033 ng/ml
EDDP	5.290	17575	13840.4	240.6	3188.2	377868	5.043 ng/ml
Fentanyl	5.138	2230	609.2	72.1	1052.9	213360	0.513 ng/ml
Fluoxetine	5.715	21746	26589.2	9.0	508.8	165765	4.951 ng/ml
Hydrocodone	3.068	18646	314.6	39.2	113.3	213981	4.479 ng/ml
Hydromorphone	1.663	21118	3803.0	73.4	969.5	147385	5.138 ng/ml
Ketamine	4.082	40714	14386.5	36.2	179.4	375851	4.941 ng/ml
Lamotrigine	4.324	4345	296.9	86.8	2693.6	81795	4.983 ng/ml
Lorazepam	5.750	986	12.3	71.0	∞	120531	4.674 ng/ml
Meprobamate	4.942	9477	8730.6	28.8	134.7	81795	5.010 ng/ml
Methadone	5.664	40676	1512.3	47.5	1878.0	373728	5.423 ng/ml
Methamphetamine	3.269	71636	126.6	32.5	23.4	225230	4.996 ng/ml
Metoprolol	4.354	10475	1673.6	101.5	1573.8	375851	4.847 ng/ml



AM #28 Multi-Drug Quant. Results

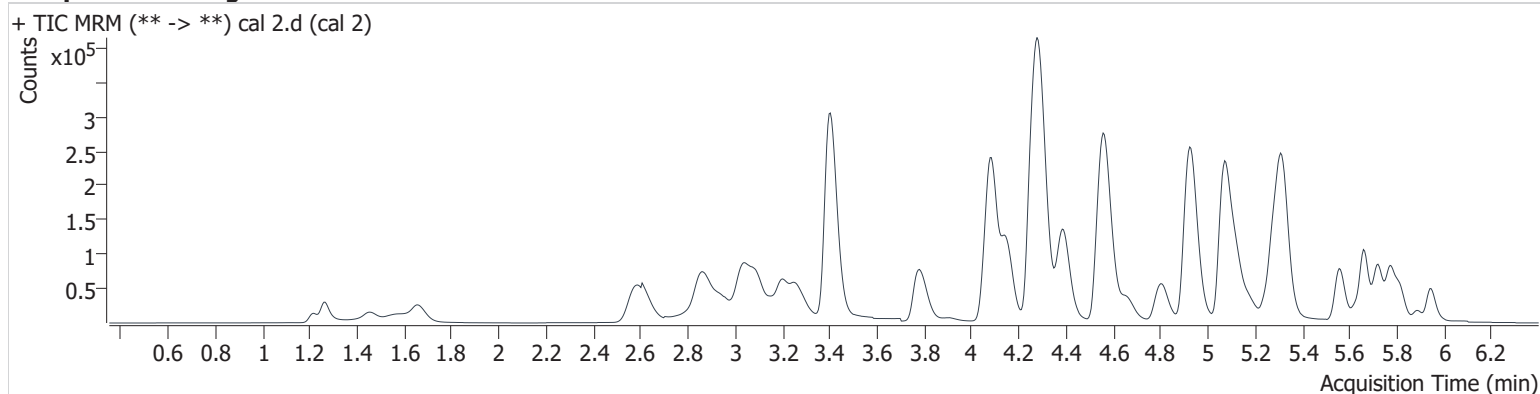
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	49778	34422.3	45.7	17672.4	147385	6.373 ng/ml
Mitragynine	5.255	5396	4550.2	40.8	477.2	183352	5.218 ng/ml
Morphine	1.222	3931	∞	20.8	∞	8989	4.968 ng/ml
Nordiazepam	5.897	4489	4609.4	59.3	2127.9	28399	5.021 ng/ml
Norfentanyl	4.112	6796	868.2	40.4	38.0	563962	0.509 ng/ml
Norhydrocodone	3.110	947	131.9	43.9	23.2	66381	18.955 ng/ml
Noroxycodone	2.962	15317	410.8	42.8	182.8	108324	4.542 ng/ml
O-desmethyl-tramadol	3.410	103492	4697.1	6.5	239.3	1036870	5.498 ng/ml
Oxazepam	5.763	1701	70.5	77.9	16.2	16932	4.868 ng/ml
Oxycodone	2.884	38284	468.1	28.8	754.6	347522	4.808 ng/ml
Oxymorphone	1.460	9703	56026.0	43.6	357.0	68397	4.293 ng/ml
Phentermine	3.813	15277	24.2	5.7	9.3 Low	323944	4.960 ng/ml
Promethazine	5.563	36546	1056.5	31.3	519.5	309311	5.138 ng/ml
Quetiapine	5.560	30863	31901.8	60.1	9918.1	85469	4.905 ng/ml
Sertraline	5.777	11191	231.5	104.4	14057.4	101025	5.012 ng/ml
Temazepam	5.824	9879	118.6	29.4	34.9	94801	5.057 ng/ml
Tramadol	4.278	105412	692.5	3.7	211.2	1010352	4.927 ng/ml
Trazodone	5.173	31886	20559.2	79.4	21231.0	261417	4.963 ng/ml
Venlafaxine	5.073	74992	278.4	39.3	124.1	758546	5.466 ng/ml
Zolpidem	4.939	98812	116875.7	29.7	639.7	808814	4.970 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** cal 2.d
Type Cal **Sample** cal 2
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-B1 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 8:16:12 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	1962	823.0	74.5	1995.8	57886	0.979 ng/ml
7-aminoclonazepam	4.297	26191	29551.0	81.6	51.0	113339	10.238 ng/ml
a-hydroxyalprazolam	5.704	1836	1028.0	63.5	1879.6	9519	10.574 ng/ml
alpha-PVP	4.397	77352	468.2	52.9	619.8	336899	9.897 ng/ml
Alprazolam	5.777	30093	1327.5	111.0	184.1	104406	10.132 ng/ml
Amphetamine	3.101	75995	358.0	53.2	120.4	147118	10.319 ng/ml
Benzoylcegonine	3.916	5241	148.3	8.3	87.5	9120	9.613 ng/ml
Buprenorphine	5.770	362	408.6	14.0	45.0	14452	0.997 ng/ml
Bupropion	4.819	37689	249.4	52.4	221.0	143513	9.987 ng/ml
Carisoprodol	5.728	24215	33691.3	59.3	94.8	112711	10.049 ng/ml
Citalopram	5.256	24831	1522.5	41.1	10483.7	107879	10.004 ng/ml
Clonazepam	5.622	4653	3266.2	36.5	1245.0	8015	10.200 ng/ml
Cocaine	4.296	70163	111180.0	45.0	18238.8	557973	10.018 ng/ml
Codeine	2.638	11673	94.1	107.3	1004.1	61069	9.730 ng/ml
Cyclobenzaprine	5.635	10952	12799.9	8.4	25.3	43832	9.716 ng/ml
Dextromethorphan	5.300	13796	161.5	77.6	11629.8	67401	9.824 ng/ml
Dextrorphan	4.151	23990	30365.2	216.4	85952.1	274287	9.981 ng/ml
Diazepam	5.947	19161	2874.6	88.0	8004.9	92996	9.861 ng/ml
Dihydrocodeine	2.606	31565	122.5	65.0	2437.9	178930	10.090 ng/ml
Diphenhydramine	5.327	78298	4504.0	34.5	9003.9	425574	10.186 ng/ml
Doxylamine	4.574	194258	88346.6	96.7	9428.4	828154	9.934 ng/ml
EDDP	5.290	27953	26441.8	236.7	5571.4	319729	9.857 ng/ml
Fentanyl	5.127	1673	294.7	72.9	972.7	88410	0.963 ng/ml
Fluoxetine	5.715	9002	7245.8	8.5	572.1	37045	9.764 ng/ml
Hydrocodone	3.068	30937	425.4	40.1	321.4	186259	9.630 ng/ml
Hydromorphone	1.663	34700	2431.8	68.3	2305.1	127194	10.100 ng/ml
Ketamine	4.082	68674	116482.2	36.1	410.3	326795	10.144 ng/ml
Lamotrigine	4.324	7238	353.6	84.1	4457.0	74089	9.863 ng/ml
Lorazepam	5.750	1870	85.0	64.7	23.6	104406	11.021 ng/ml
Meprobamate	4.942	14811	15568.8	30.3	35.4	74089	9.546 ng/ml
Methadone	5.664	39112	3188.8	46.8	314.6	196080	9.916 ng/ml
Methamphetamine	3.269	77642	274.5	42.0	98.8	200423	8.257 ng/ml
Metoprolol	4.354	17678	2618.3	98.8	860.7	326795	10.135 ng/ml



AM #28 Multi-Drug Quant. Results

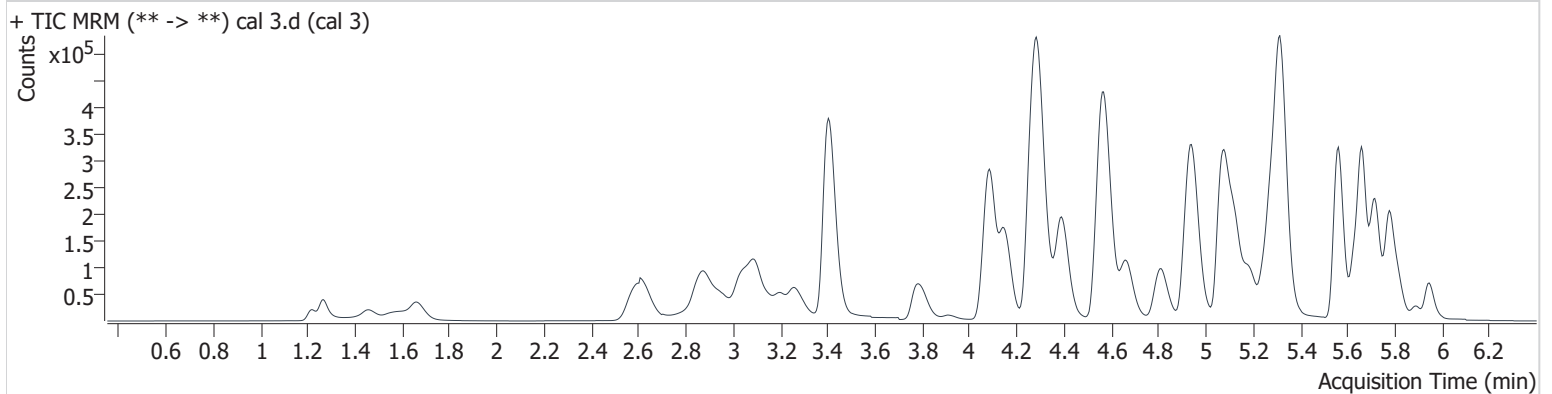
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	65216	62183.7	44.9	35399.0	127194	8.551 ng/ml
Mitragynine	5.260	4902	814.8	34.6	1475.1	107879	8.437 ng/ml
Morphine	1.217	6666	∞	20.5	34214.4	8072	10.142 ng/ml
Norbuprenorphine	5.029	59	25.0	131.5	13.9	3071	0.695 ng/ml
Nordiazepam	5.897	7624	6356.3	60.7	2039.8	25856	9.890 ng/ml
Norfentanyl	4.112	11561	599.4	40.8	168.3	520136	0.973 ng/ml
Norhydrocodone	3.105	1647	315.8	38.5	106.5	56924	21.811 ng/ml
Noroxycodone	2.956	26562	162.8	42.3	438.1	95797	9.953 ng/ml
O-desmethyl-tramadol	3.410	172295	23950.4	6.5	1059.7	922203	10.099 ng/ml
Oxazepam	5.763	2866	75.9	75.3	7.9 Low	15778	9.760 ng/ml
Oxycodone	2.884	63209	2029.3	29.3	485.6	303846	9.877 ng/ml
Oxymorphone	1.460	15729	50557.4	46.5	858.5	58926	9.682 ng/ml
Phentermine	3.813	25311	73.4	5.7	35.3	283531	9.958 ng/ml
Promethazine	5.563	17916	1822.3	30.5	172.8	79642	10.025 ng/ml
Quetiapine	5.560	44640	60091.1	61.5	547.8	63095	10.270 ng/ml
Sertraline	5.777	4342	3703.1	100.6	4485.0	20104	10.021 ng/ml
Temazepam	5.819	17373	815.5	27.6	88.1	85450	9.908 ng/ml
Tramadol	4.273	175237	10885.0	3.6	287.1	908845	10.123 ng/ml
Trazodone	5.178	43841	44563.7	78.9	37588.9	188263	10.031 ng/ml
Venlafaxine	5.073	127292	4487.8	38.3	1685.7	661637	10.225 ng/ml
Zolpidem	4.939	169242	162262.2	29.5	26519.1	717280	10.064 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** cal 3.d
Type Cal **Sample** cal 3
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-C1 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 8:26:59 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	4797	6072.0	78.6	492.7	59117	2.353 ng/ml
7-aminoclonazepam	4.302	63595	314.3	84.3	44586.7	117364	25.719 ng/ml
a-hydroxyalprazolam	5.704	4332	3277.6	60.5	1661.6	9564	25.112 ng/ml
alpha-PVP	4.397	196268	1918.0	53.0	5914.7	350096	25.020 ng/ml
Alprazolam	5.782	73769	2841.1	108.2	789.6	106703	24.431 ng/ml
Amphetamine	3.101	159470	1261.6	52.8	381.3	131326	26.415 ng/ml
Benzoylcegonine	3.916	12354	24803.8	8.4	767.0	8838	22.959 ng/ml
Buprenorphine	5.775	1907	699.4	14.8	263.3	28927	2.524 ng/ml
Bupropion	4.819	112567	5268.5	59.0	2475.1	189048	24.952 ng/ml
Carisoprodol	5.728	56982	2755.5	57.3	271.6	108446	25.104 ng/ml
Citalopram	5.256	115502	558.8	44.1	445.5	202502	25.136 ng/ml
Clonazepam	5.622	10277	3353.6	38.0	49.5	8335	22.638 ng/ml
Cocaine	4.296	176175	702.1	45.5	72223.9	573305	24.674 ng/ml
Codeine	2.638	29035	145.7	104.7	778.2	59509	25.362 ng/ml
Cyclobenzaprine	5.635	126476	109314.1	9.4	4451.0	201615	25.202 ng/ml
Dextromethorphan	5.300	83170	824.5	75.5	63369.6	165744	24.284 ng/ml
Dextrorphan	4.151	64304	148525.3	216.1	8306.3	300049	24.722 ng/ml
Diazepam	5.947	47223	524.6	89.6	10890.0	94482	24.513 ng/ml
Dihydrocodeine	2.611	78624	6080.2	64.2	140388.7	177496	26.723 ng/ml
Diphenhydramine	5.327	351716	483.8	34.9	3967.9	789806	24.378 ng/ml
Doxylamine	4.574	512756	256361.4	96.7	2421.9	899924	24.487 ng/ml
EDDP	5.290	72781	42547.5	240.9	158708.3	341187	24.670 ng/ml
Fentanyl	5.127	13052	555.2	73.2	101.6	281017	2.426 ng/ml
Fluoxetine	5.715	131821	140705.4	8.9	579.9	221260	24.946 ng/ml
Hydrocodone	3.069	77460	602.5	38.5	∞	189020	25.529 ng/ml
Hydromorphone	1.663	77644	3886.5	73.8	432.1	119507	24.538 ng/ml
Ketamine	4.087	168455	33911.9	37.8	2421.1	332840	25.267 ng/ml
Lamotrigine	4.330	17331	628.7	87.3	18550.9	71549	25.685 ng/ml
Lorazepam	5.750	4385	191.1	57.7	30.4	106703	26.136 ng/ml
Meprobamate	4.942	36869	30868.9	28.9	584.1	71549	26.571 ng/ml
Methadone	5.664	210648	28113.9	49.0	5503.7	427248	24.468 ng/ml
Methamphetamine	3.269	99206	122.0	40.8	84.6	141473	23.019 ng/ml
Metoprolol	4.354	44982	1306.2	98.6	2656.5	332840	26.477 ng/ml



AM #28 Multi-Drug Quant. Results

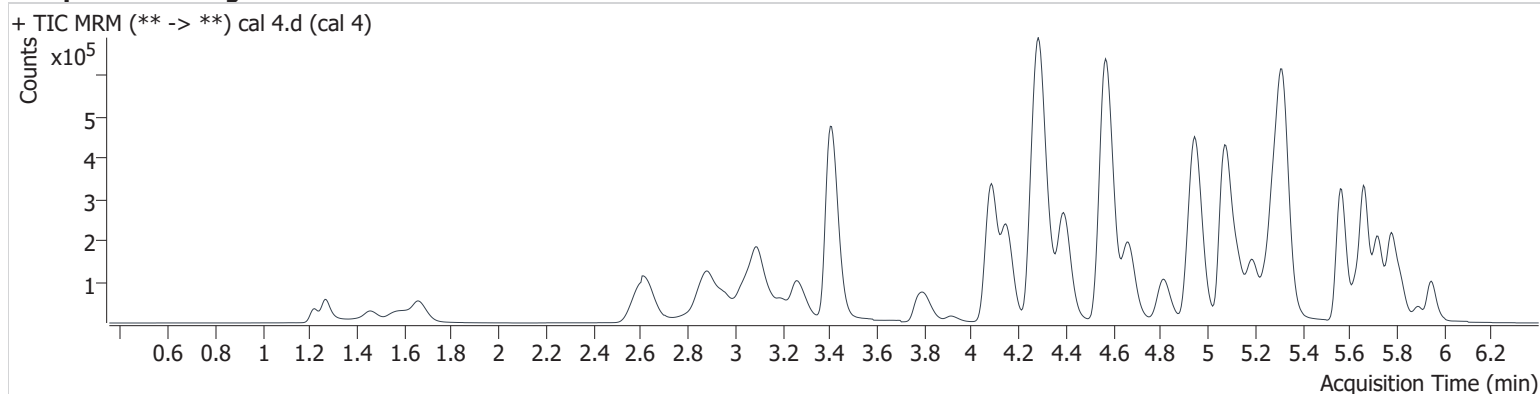
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	242413	19263.6	45.9	2312.3	119507	27.418 ng/ml
Mitragynine	5.260	29692	12246.5	38.3	13918.0	202502	28.789 ng/ml
Morphine	1.222	14582	∞	21.6	∞	7575	24.783 ng/ml
Norbuprenorphine	5.024	265	251.5	112.8	158.6	5726	2.260 ng/ml
Nordiazepam	5.897	19276	18391.0	60.6	7103.8	27099	24.717 ng/ml
Norfentanyl	4.112	28632	38285.4	40.5	442.5	525677	2.443 ng/ml
Norhydrocodone	3.110	4099	53.0	40.2	101.6	57767	29.996 ng/ml
Noroxycodone	2.962	60354	246.7	42.1	479.8	92557	24.881 ng/ml
O-desmethyl-tramadol	3.410	425181	23493.7	6.5	1933.9	935414	24.253 ng/ml
Oxazepam	5.763	6092	247.4	78.5	104.1	14360	24.376 ng/ml
Oxycodone	2.884	153604	461.1	29.9	1349.4	307180	25.002 ng/ml
Oxymorphone	1.460	37663	1890.5	44.8	62345.0	58786	25.784 ng/ml
Phentermine	3.813	53880	68.6	5.9	68.2	244311	25.537 ng/ml
Promethazine	5.563	214186	7606.1	32.1	580.2	398576	24.322 ng/ml
Quetiapine	5.565	140148	111831.0	60.5	75606.9	83467	25.317 ng/ml
Sertraline	5.783	67952	79603.0	98.9	130196.6	130545	24.525 ng/ml
Temazepam	5.819	41912	3418.7	29.7	171.4	84295	24.294 ng/ml
Tramadol	4.278	422036	51211.6	3.5	77.8	932709	25.374 ng/ml
Trazodone	5.189	158643	204922.4	78.8	146378.5	279672	25.312 ng/ml
Venlafaxine	5.073	326152	36300.1	38.4	1300.3	690512	24.468 ng/ml
Zolpidem	4.949	419518	338527.1	29.4	25069.4	732615	25.139 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** cal 4.d
Type Cal **Sample** cal 4
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-D1 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 8:37:47 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	9611	4055.6	71.9	785.0	57210	4.880 ng/ml
7-aminoclonazepam	4.297	119103	99166.9	81.8	4002.7	105701	54.857 ng/ml
a-hydroxyalprazolam	5.704	8078	132.5	65.2	1620.9	8927	50.375 ng/ml
alpha-PVP	4.397	368391	5158.6	52.6	5247.7	323098	51.498 ng/ml
Alprazolam	5.777	140074	3273.9	108.9	1399.8	99317	49.935 ng/ml
Amphetamine	3.101	314035	966.4	52.7	1745.1	129718	54.248 ng/ml
Benzoylcegonine	3.916	24418	23161.9	8.4	391.6	8727	45.658 ng/ml
Buprenorphine	5.780	2895	231.8	15.5	386.0	21554	5.080 ng/ml
Bupropion	4.819	160483	2309.1	59.3	8538.3	135475	51.443 ng/ml
Carisoprodol	5.728	111177	91561.9	57.7	389.6	104432	51.238 ng/ml
Citalopram	5.256	183845	124.0	45.4	97108.5	161554	50.383 ng/ml
Clonazepam	5.622	20362	16103.6	35.2	1703.0	7839	48.645 ng/ml
Cocaine	4.296	334479	5113.2	46.3	91998.0	537138	50.137 ng/ml
Codeine	2.638	54312	113.6	107.3	458.1	56639	50.173 ng/ml
Cyclobenzaprine	5.635	137705	169866.3	9.1	356.5	110069	50.795 ng/ml
Dextromethorphan	5.300	117150	9062.6	74.4	1878.6	111790	50.864 ng/ml
Dextrorphan	4.151	130915	306.8	211.6	274777.4	300170	50.498 ng/ml
Diazepam	5.947	92447	1210.7	86.2	1751.2	90107	50.755 ng/ml
Dihydrocodeine	2.611	153213	802.2	63.8	20020.4	174327	53.924 ng/ml
Diphenhydramine	5.327	558691	12092.4	34.0	52912.3	629568	48.386 ng/ml
Doxylamine	4.574	986958	113259.9	96.4	38650.4	842765	50.592 ng/ml
EDDP	5.290	154351	1811.8	237.8	9489.6	353538	50.941 ng/ml
Fentanyl	5.132	16213	28091.5	73.5	8932.3	170125	5.023 ng/ml
Fluoxetine	5.715	127313	9409.5	8.6	2131.0	105932	51.031 ng/ml
Hydrocodone	3.068	150361	∞	39.0	279.5	180846	53.036 ng/ml
Hydromorphone	1.663	160104	260966.2	73.7	1167.5	122303	49.798 ng/ml
Ketamine	4.087	320034	124765.6	38.1	897.2	315098	51.303 ng/ml
Lamotrigine	4.324	32145	1819.9	90.4	1610.1	66450	52.123 ng/ml
Lorazepam	5.750	8425	493.8	53.7	56.0	99317	54.645 ng/ml
Meprobamate	4.937	68261	94685.7	29.2	52.9	66450	54.206 ng/ml
Methadone	5.664	317913	150581.6	48.0	141438.2	318249	49.546 ng/ml
Methamphetamine	3.269	206726	102.8	41.3	53.7	143655	57.723 ng/ml
Metoprolol	4.354	86605	1240.4	99.2	6817.1	315098	54.646 ng/ml



AM #28 Multi-Drug Quant. Results

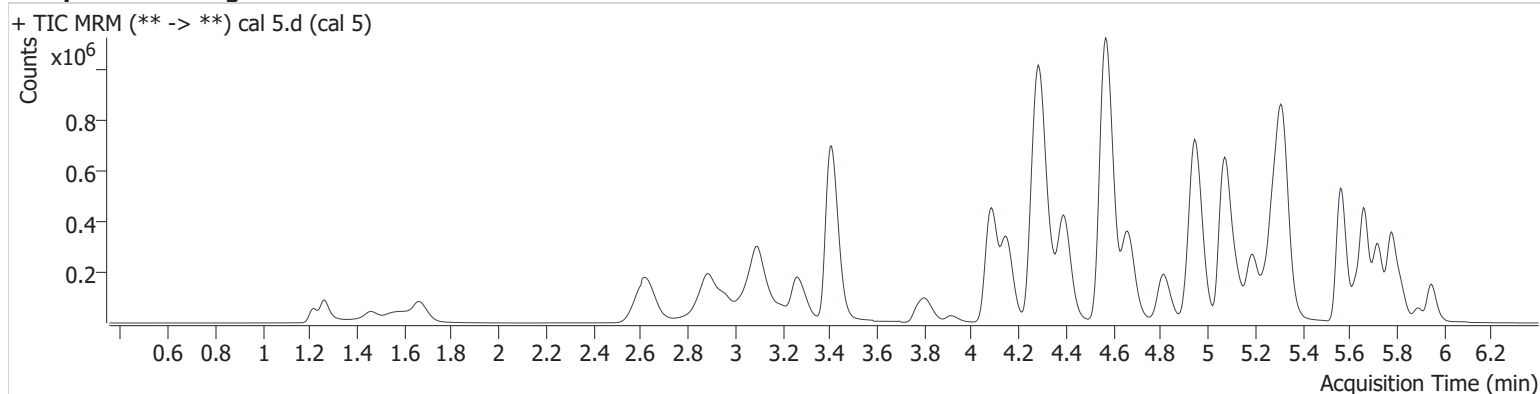
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	430119	4875.8	45.8	195699.5	122303	45.944 ng/ml
Mitragynine	5.260	43095	40576.9	37.9	17058.4	161554	52.948 ng/ml
Morphine	1.222	28698	∞	20.6	∞	7417	50.674 ng/ml
Norbuprenorphine	5.029	459	383.9	93.5	726.4	4170	5.935 ng/ml
Nordiazepam	5.897	36497	15379.1	60.6	15570.1	24826	51.728 ng/ml
Norfentanyl	4.112	55099	163.8	40.0	39.2	499417	4.989 ng/ml
Norhydrocodone	3.110	9324	822.8	41.5	587.7	57577	47.717 ng/ml
Noroxycodone	2.962	116585	1986.4	43.0	1484.6	87055	52.249 ng/ml
O-desmethyl-tramadol	3.410	824819	50286.7	6.4	3935.1	892415	49.089 ng/ml
Oxazepam	5.758	11240	619.5	76.7	205.7	12948	51.122 ng/ml
Oxycodone	2.884	298156	971.7	29.7	1701.3	293793	51.665 ng/ml
Oxymorphone	1.455	68736	176.5	45.1	92555.6	53696	53.332 ng/ml
Phentermine	3.813	105402	213.3	5.6	259.2	235901	52.390 ng/ml
Promethazine	5.563	226694	68902.8	32.1	2042.4	206439	49.983 ng/ml
Quetiapine	5.565	266789	117288.5	61.2	558.3	79342	51.389 ng/ml
Sertraline	5.783	59907	44253.6	101.1	49166.6	55610	51.038 ng/ml
Temazepam	5.819	81707	4867.6	28.7	370.3	79438	50.305 ng/ml
Tramadol	4.278	812895	39036.0	3.5	730.8	887070	52.618 ng/ml
Trazodone	5.189	280650	64511.6	79.5	517.1	247683	51.170 ng/ml
Venlafaxine	5.073	639616	18038.8	38.6	370.1	685553	47.907 ng/ml
Zolpidem	4.955	804223	1094.7	30.0	120458.6	700801	50.882 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** cal 5.d
Type Cal **Sample** cal 5
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-E1 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 8:48:34 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.173	18286	864.0	74.1	31406.2	55888	9.511 ng/ml
7-aminoclonazepam	4.297	207152	18813.9	83.0	420.8	97902	104.129 ng/ml
a-hydroxyalprazolam	5.704	15332	4505.1	60.6	363.2	8555	99.986 ng/ml
alpha-PVP	4.397	701818	1147.6	53.1	23491.8	320008	99.602 ng/ml
Alprazolam	5.777	265634	1686.7	108.6	9399.1	94678	99.427 ng/ml
Amphetamine	3.101	569072	1285.4	53.1	2668.2	125297	103.172 ng/ml
Benzoylcegonine	3.916	48925	48529.8	8.1	354.1	8533	93.251 ng/ml
Buprenorphine	5.780	4687	462.3	14.7	454.3	18026	9.778 ng/ml
Bupropion	4.819	345288	4339.5	60.9	1425.9	153113	99.577 ng/ml
Carisoprodol	5.728	204028	168012.0	58.9	5392.6	99883	98.649 ng/ml
Citalopram	5.256	313928	14784.0	44.6	1405.9	142127	98.014 ng/ml
Clonazepam	5.622	41095	1058.6	33.3	16335.0	7561	102.735 ng/ml
Cocaine	4.296	649195	939516.2	45.3	215598.9	533185	98.160 ng/ml
Codeine	2.643	102742	62.4	104.3	7030.7	54180	99.551 ng/ml
Cyclobenzaprine	5.635	246213	144911.5	9.2	6064.1	102407	98.109 ng/ml
Dextromethorphan	5.300	198701	65341.0	73.1	1425.5	98315	98.224 ng/ml
Dextrorphan	4.151	233790	178168.9	216.7	329079.3	276840	97.951 ng/ml
Diazepam	5.947	173562	2256.0	86.5	3368.7	85306	101.060 ng/ml
Dihydrocodeine	2.611	294317	39996.7	64.8	23199.5	175082	103.977 ng/ml
Diphenhydramine	5.321	978547	8348.6	34.6	4244.7	554770	95.982 ng/ml
Doxylamine	4.574	1974912	6335.7	96.3	45791.2	868225	98.501 ng/ml
EDDP	5.290	282354	267503.6	239.1	14180.9	337100	98.124 ng/ml
Fentanyl	5.132	28783	156.7	72.7	16950.4	159186	9.569 ng/ml
Fluoxetine	5.715	239058	249847.2	8.4	468.3	99828	102.370 ng/ml
Hydrocodone	3.068	281208	∞	39.8	∞	174709	103.802 ng/ml
Hydromorphone	1.663	310300	132827.9	74.1	3466.5	120319	98.446 ng/ml
Ketamine	4.087	605738	312462.4	38.2	879.1	309031	99.561 ng/ml
Lamotrigine	4.324	61179	626.3	87.6	949.6	64748	102.601 ng/ml
Lorazepam	5.750	14152	342.6	57.1	172.3	94678	96.785 ng/ml
Meprobamate	4.937	124977	140524.1	28.6	3969.6	64748	102.947 ng/ml
Methadone	5.664	536822	23472.0	48.4	1099.8	281825	94.450 ng/ml
Methamphetamine	3.269	365776	202.0	41.6	338.5	151713	103.438 ng/ml
Metoprolol	4.354	165616	4641.2	97.5	9946.3	309031	107.285 ng/ml



AM #28 Multi-Drug Quant. Results

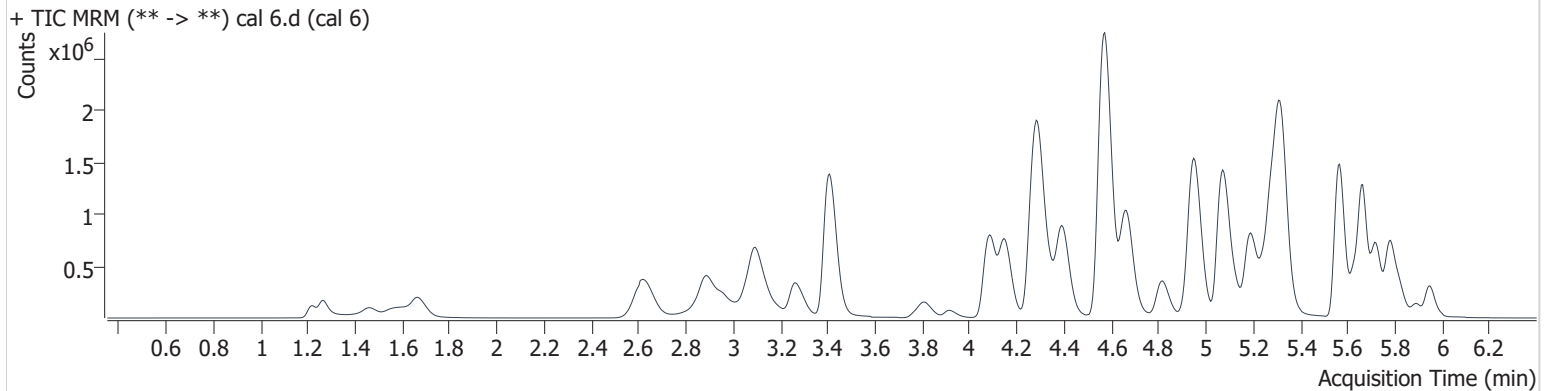
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	803709	359167.3	45.8	309230.5	120319	85.315 ng/ml
Mitragynine	5.260	69780	67024.1	36.4	46035.1	142127	98.044 ng/ml
Morphine	1.217	53145	∞	18.8	2653769.9	7081	99.095 ng/ml
Norbuprenorphine	5.024	624	212.1	113.0	747.6	4054	8.463 ng/ml
Nordiazepam	5.897	68912	15363.6	60.5	54753.9	24246	100.575 ng/ml
Norfentanyl	4.112	110488	34632.9	39.8	1000.3	509412	9.848 ng/ml
Norhydrocodone	3.110	21321	285.5	40.5	446.8	57064	88.952 ng/ml
Noroxycodone	2.962	220507	472.4	41.8	401.6	83786	103.730 ng/ml
O-desmethyl-tramadol	3.410	1606212	312101.7	6.4	3930.5	891403	95.494 ng/ml
Oxazepam	5.758	19516	1252.7	73.5	301.7	11930	97.384 ng/ml
Oxycodone	2.889	566820	2626.1	30.3	379.3	290056	100.315 ng/ml
Oxymorphone	1.460	126874	324551.8	46.7	312508.8	51309	104.715 ng/ml
Phentermine	3.813	215105	501.6	5.6	75.3	246858	102.777 ng/ml
Promethazine	5.563	422824	681555.1	31.8	4258.7	193126	99.921 ng/ml
Quetiapine	5.565	503220	413.3	59.3	1304.7	76580	101.083 ng/ml
Sertraline	5.783	109340	65109.4	103.7	123367.7	53965	96.224 ng/ml
Temazepam	5.819	151406	2752.9	29.7	551.8	77803	95.214 ng/ml
Tramadol	4.273	1568794	6819.2	3.5	2189.1	891851	102.106 ng/ml
Trazodone	5.189	535317	428000.5	78.3	56085.3	237505	102.390 ng/ml
Venlafaxine	5.073	1245375	15124.2	38.2	5677.4	664557	95.786 ng/ml
Zolpidem	4.949	1588200	393102.0	29.7	268631.7	705672	100.270 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 Data File cal 6.d
Type Cal Sample cal 6
Acq. Method mdq p1 cda 121818.m Operator Anne Nord
Sample Position P2-F1 Comment
Injection Volume 2
Acq. Date-Time 12/30/2019 8:59:22 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	47569	3533.6	74.3	59999.6	55021	25.143 ng/ml
7-aminoclonazepam	4.297	369402	274.9	80.3	8263.3	72989	250.837 ng/ml
a-hydroxyalprazolam	5.704	33951	668.7	60.8	789.6	8002	236.989 ng/ml
alpha-PVP	4.397	1717272	242166.1	52.9	757.3	311296	251.434 ng/ml
Alprazolam	5.782	581148	182.2	109.4	1055.8	84402	244.139 ng/ml
Amphetamine	3.101	1513809	933.9	50.6	1094.0	136544	254.144 ng/ml
Benzoylcegonine	3.916	140512	122018.1	8.0	34124.5	8910	255.971 ng/ml
Buprenorphine	5.785	12784	2571.2	16.9	625.8	20173	23.747 ng/ml
Bupropion	4.819	722656	111034.7	61.1	9192.8	129709	248.687 ng/ml
Carisoprodol	5.728	449519	323048.4	57.7	1273.0	86889	250.406 ng/ml
Citalopram	5.256	987496	908.4	44.7	14233.0	172168	254.892 ng/ml
Clonazepam	5.622	95151	70730.4	33.5	14093.5	7018	257.573 ng/ml
Cocaine	4.296	1547913	6954.7	45.6	129672.9	504218	247.698 ng/ml
Codeine	2.643	238776	16106.9	104.2	67980.8	49775	252.346 ng/ml
Cyclobenzaprine	5.635	897067	15474.1	9.3	1566.5	143940	255.166 ng/ml
Dextromethorphan	5.300	644872	2028.8	74.9	37039.3	125076	250.788 ng/ml
Dextrorphan	4.151	664562	866309.1	216.6	2939.8	307065	251.310 ng/ml
Diazepam	5.952	396136	3615.1	88.7	10499.7	79515	248.060 ng/ml
Dihydrocodeine	2.606	717980	637.8	64.6	47879.3	176550	252.844 ng/ml
Diphenhydramine	5.327	3026391	320952.2	33.7	39527.1	662114	248.411 ng/ml
Doxylamine	4.574	5364345	3557.9	95.5	4975.0	927386	250.869 ng/ml
EDDP	5.290	806335	78935.8	238.3	14647.9	374955	252.601 ng/ml
Fentanyl	5.132	102804	52.8	72.7	87283.4	215616	25.305 ng/ml
Fluoxetine	5.715	850953	621487.6	8.7	47260.2	145869	250.380 ng/ml
Hydrocodone	3.068	708365	∞	39.1	∞	178756	257.322 ng/ml
Hydromorphone	1.668	796023	4286.9	74.1	27568.6	121771	250.075 ng/ml
Ketamine	4.087	1500113	132430.7	37.2	22266.5	301473	253.657 ng/ml
Lamotrigine	4.324	132326	2923.5	89.5	6807.6	57898	249.353 ng/ml
Lorazepam	5.750	29274	31765.1	59.6	342.1	84402	225.452 ng/ml
Meprobamate	4.937	258819	41769.6	28.7	722.0	57898	240.056 ng/ml
Methadone	5.664	1856218	134812.5	47.1	638942.3	366155	251.325 ng/ml
Methamphetamine	3.269	722582	202.2	40.8	870.3	122487	267.514 ng/ml
Metoprolol	4.354	387644	7406.1	96.5	10162.7	301473	258.489 ng/ml



AM #28 Multi-Drug Quant. Results

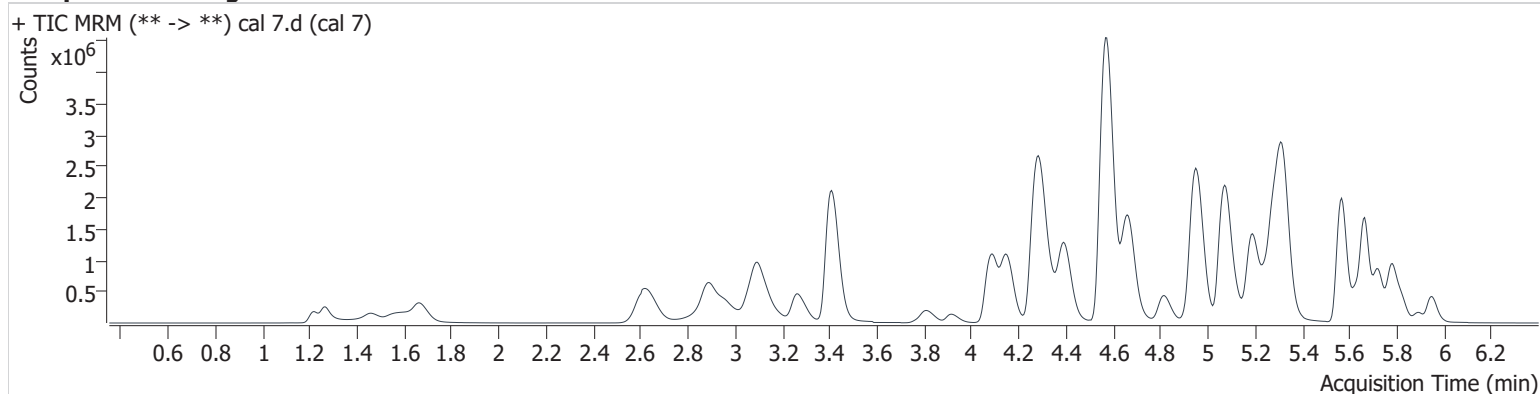
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	2421561	1125.3	45.7	1869030.4	121771	249.700 ng/ml
Mitragynine	5.260	216734	198523.9	37.8	4206.2	172168	252.481 ng/ml
Morphine	1.222	126219	∞	21.1	∞	6603	253.730 ng/ml
Norbuprenorphine	5.024	2076	1974.3	92.7	1166.7	4560	25.831 ng/ml
Nordiazepam	5.897	156395	15944.0	60.6	86960.0	22169	250.537 ng/ml
Norfentanyl	4.112	278082	41135.8	40.0	4521.6	500879	25.270 ng/ml
Norhydrocodone	3.110	67772	2750.1	41.1	5359.5	59738	237.153 ng/ml
Noroxycodone	2.962	505334	1117.5	42.6	4460.2	78346	255.805 ng/ml
O-desmethyl-tramadol	3.410	4130500	279254.5	6.3	46594.2	893109	244.756 ng/ml
Oxazepam	5.758	38009	498.0	73.7	595.3	8410	271.148 ng/ml
Oxycodone	2.884	1435292	14024.1	29.5	3363.1	289989	255.450 ng/ml
Oxymorphone	1.460	337926	599029.2	45.8	1375.9	56461	256.034 ng/ml
Phentermine	3.813	469642	1106.3	5.5	908.4	220713	251.893 ng/ml
Promethazine	5.563	1549513	2953927.3	31.7	363735.5	284512	248.960 ng/ml
Quetiapine	5.565	1442993	783.8	60.1	909631.4	89792	248.202 ng/ml
Sertraline	5.782	391004	61.4	102.0	133.6	74706	248.986 ng/ml
Temazepam	5.824	358069	7260.8	29.2	1466.7	69196	253.259 ng/ml
Tramadol	4.276	3805790	179522.5	3.4	1619.8	895501	248.393 ng/ml
Trazodone	5.189	1705548	180636.6	79.2	856476.5	307905	252.523 ng/ml
Venlafaxine	5.073	3379219	9475.6	37.7	308441.2	696317	247.359 ng/ml
Zolpidem	4.954	3991095	108749.1	29.9	87822.9	715154	249.374 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument	69679	Data File	cal 7.d
Type	Cal	Sample	cal 7
Acq. Method	mdq p1 cda 121818.m	Operator	Anne Nord
Sample Position	P2-G1	Comment	
Injection Volume	2		
Acq. Date-Time	12/30/2019 9:10:10 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	81504	2523.4	74.3	1549.6	45481	52.123 ng/ml
7-aminoclonazepam	4.297	467928	8320.6	82.3	6860.4	49267	471.845 ng/ml
a-hydroxyalprazolam	5.704	57861	965.1	59.4	638.7	6499	497.530 ng/ml
alpha-PVP	4.397	2614591	1933.3	53.0	7400.6	240117	496.872 ng/ml
Alprazolam	5.782	909915	4877.6	109.8	17815.7	65359	493.725 ng/ml
Amphetamine	3.107	2127841	2666.9	51.0	3322.9	104528	467.983 ng/ml
Benzoylcegonine	3.916	280963	89995.5	8.2	17099.6	8573	531.626 ng/ml
Buprenorphine	5.785	15996	8878.5	16.1	2179.8	11955	50.076 ng/ml
Bupropion	4.819	920082	2138.5	59.8	1866.9	83828	491.691 ng/ml
Carisoprodol	5.728	732638	886882.2	58.6	3849.5	72374	490.321 ng/ml
Citalopram	5.251	1405940	128737.6	45.3	532833.9	125363	498.616 ng/ml
Clonazepam	5.622	163152	103926.6	33.8	39755.7	6161	503.939 ng/ml
Cocaine	4.296	2421194	9072.4	45.4	333650.7	393544	496.533 ng/ml
Codeine	2.643	373700	702.9	102.3	443.5	39074	503.438 ng/ml
Cyclobenzaprine	5.635	975944	152342.0	9.2	4869.9	79880	500.741 ng/ml
Dextromethorphan	5.300	795719	50103.8	74.9	50713.5	76509	506.025 ng/ml
Dextrorphan	4.151	1040239	1768218.1	217.2	3883.0	241687	499.967 ng/ml
Diazepam	5.952	629018	1261.1	86.6	5592.9	63377	494.598 ng/ml
Dihydrocodeine	2.606	1174846	39680.7	64.5	53504.5	153118	477.862 ng/ml
Diphenhydramine	5.327	4365387	140009.1	33.9	14558.1	479219	494.876 ng/ml
Doxylamine	4.573	9320224	43576.4	95.6	4741.5	794082	509.296 ng/ml
EDDP	5.290	1395767	39951.5	239.4	2108.4	330199	496.934 ng/ml
Fentanyl	5.127	136221	1226.7	73.6	85317.6	142742	50.691 ng/ml
Fluoxetine	5.715	744745	2272.3	8.6	4104.0	64888	493.278 ng/ml
Hydrocodone	3.068	1194400	∞	39.2	∞	153657	505.912 ng/ml
Hydromorphone	1.663	1371121	206884.9	74.4	2985057.3	105322	498.369 ng/ml
Ketamine	4.087	2418288	3320.7	37.2	18267.8	248932	495.787 ng/ml
Lamotrigine	4.324	195078	449.4	88.6	2764.7	46150	461.884 ng/ml
Lorazepam	5.750	45164	1404.6	58.9	469.5	65359	449.819 ng/ml
Meprobamate	4.932	388676	248930.7	28.3	36730.9	46150	453.367 ng/ml
Methadone	5.664	2683579	2888504.8	47.6	84968.0	266333	499.503 ng/ml
Methamphetamine	3.269	994059	962.5	41.4	1212.3	88169	520.342 ng/ml
Metoprolol	4.354	575017	3623.6	97.2	10930.8	248932	464.980 ng/ml

AM #28 Multi-Drug Quant. Results

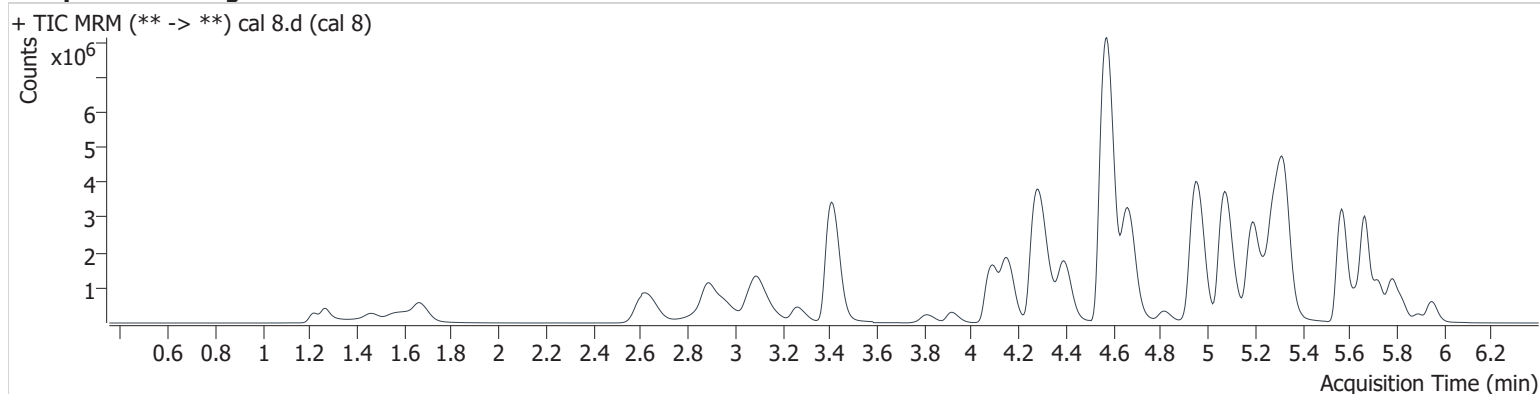
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	4094357	12617.5	45.4	138033.4	105322	486.061 ng/ml
Mitragynine	5.255	284607	30215.2	38.7	2435.0	125363	455.898 ng/ml
Morphine	1.217	206225	∞	20.8	∞	5480	500.297 ng/ml
Norbuprenorphine	5.024	3159	3473.8	91.2	391.4	3412	52.952 ng/ml
Nordiazepam	5.897	239760	28078.4	61.4	21789.8	17345	491.493 ng/ml
Norfentanyl	4.112	437922	1860.4	40.0	8680.6	389786	51.178 ng/ml
Norhydrocodone	3.115	120151	3494.7	41.0	3868.7	49762	486.484 ng/ml
Noroxycodone	2.962	823946	1294.9	43.0	6701.0	64622	506.739 ng/ml
O-desmethyl-tramadol	3.412	7096911	364566.5	6.3	33426.4	760041	493.934 ng/ml
Oxazepam	5.758	58225	1586.5	72.1	1032.2	6821	513.168 ng/ml
Oxycodone	2.889	2469004	3555.8	29.9	1347.7	255614	499.375 ng/ml
Oxymorphone	1.455	581880	1338.8	44.9	1015713.7	48248	517.763 ng/ml
Phentermine	3.813	701632	1624.8	5.5	1510.2	171457	485.019 ng/ml
Promethazine	5.563	1591507	259729.1	31.7	173963.9	145396	500.642 ng/ml
Quetiapine	5.570	2480250	1785.1	59.9	2221411.9	76955	498.470 ng/ml
Sertraline	5.783	292100	27240.3	99.6	226701.6	27330	508.723 ng/ml
Temazepam	5.824	585595	4469.2	29.5	2336.0	56585	506.544 ng/ml
Tramadol	4.274	6175287	1095.5	3.4	8524.8	764438	473.227 ng/ml
Trazodone	5.189	3010957	1804.7	78.7	140314.0	278303	493.803 ng/ml
Venlafaxine	5.074	5682087	3281.6	38.1	80403.5	588888	491.375 ng/ml
Zolpidem	4.954	6971517	3247.3	29.4	134798.0	622133	501.233 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\123019\QuantResults\mdq.batch.bin
Calibration Last Update 12/31/2019 2:35:24 PM

Instrument 69679 **Data File** cal 8.d
Type Cal **Sample** cal 8
Acq. Method mdq p1 cda 121818.m **Operator** Anne Nord
Sample Position P2-H1 **Comment**
Injection Volume 2
Acq. Date-Time 12/30/2019 9:20:57 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.178	154348	3534.5	74.5	25209.5	41641	107.815 ng/ml
7-aminoclonazepam	4.302	503307	18495.3	82.4	18276.9	28118	890.388 ng/ml
a-hydroxyalprazolam	5.704	95592	4453.1	60.2	1285.9	5253	1017.048 ng/ml
alpha-PVP	4.397	3624727	575704.2	52.7	119942.2	165374	1000.761 ng/ml
Alprazolam	5.782	1387137	1203.6	109.6	4885.2	48566	1013.013 ng/ml
Amphetamine	3.107	2673798	4170.2	51.5	9765.2	70064	878.715 ng/ml
Benzoylcegonine	3.916	627398	1017960.7	8.2	51714.0	8912	1141.592 ng/ml
Buprenorphine	5.785	22689	12788.9	16.3	2017.9	8092	104.872 ng/ml
Bupropion	4.819	628087	9298.5	60.4	3820.8	28138	1001.835 ng/ml
Carisoprodol	5.728	1165909	595056.3	58.3	2098.5	56362	1002.343 ng/ml
Citalopram	5.251	2495363	4619.0	45.2	4163.3	111192	997.997 ng/ml
Clonazepam	5.622	285965	8264.3	33.9	85136.5	5305	1026.629 ng/ml
Cocaine	4.296	3844816	6629.3	45.1	108378.0	308005	1007.602 ng/ml
Codeine	2.643	610999	32459.4	103.3	59318.1	32597	986.992 ng/ml
Cyclobenzaprine	5.635	1388242	72807.8	9.2	63796.5	57200	995.241 ng/ml
Dextromethorphan	5.300	1239426	80101.4	75.0	147560.7	59240	1018.098 ng/ml
Dextrorphan	4.151	1936736	260779.6	220.1	135752.5	224907	1000.481 ng/ml
Diazepam	5.952	984230	4364.1	87.3	19951.5	48773	1006.053 ng/ml
Dihydrocodeine	2.601	1991905	55898.1	65.0	149271.0	143718	863.929 ng/ml
Diphenhydramine	5.332	7762381	5224.1	33.4	123645.9	416464	1012.368 ng/ml
Doxylamine	4.574	17586849	462618.0	96.1	496513.7	762166	1001.502 ng/ml
EDDP	5.290	2779657	24598.2	240.1	71160.7	322240	1014.532 ng/ml
Fentanyl	5.132	246656	279322.9	75.3	258958.3	124432	105.339 ng/ml
Fluoxetine	5.715	797238	19398.1	8.7	79427.5	34176	1003.280 ng/ml
Hydrocodone	3.063	2171662	∞	39.7	∞	144349	980.291 ng/ml
Hydromorphone	1.663	2604902	3535593.5	74.3	4744708.0	99404	1003.537 ng/ml
Ketamine	4.087	3973373	238806.2	37.0	24449.3	211620	958.783 ng/ml
Lamotrigine	4.329	249607	4754.6	90.2	2570.3	38497	708.937 ng/ml
Lorazepam	5.750	78677	1103.0	57.4	881.5	48566	1055.432 ng/ml
Meprobamate	4.927	538851	93498.5	28.5	60237.1	38497	754.327 ng/ml
Methadone	5.664	5368779	120271.4	46.4	32527.8	264719	1005.370 ng/ml
Methamphetamine	3.269	922396	2141.0	41.8	974.9	44975	954.710 ng/ml
Metoprolol	4.359	870231	88592.9	98.0	46404.6	211620	828.375 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.666	8213261	256082.4	44.8	175904.3	99404	1030.637 ng/ml
Mitragynine	5.255	426379	4356.7	39.5	140187.1	111192	770.520 ng/ml
Morphine	1.222	343864	∞	21.2	∞	4664	980.988 ng/ml
Norbuprenorphine	5.024	5114	6627.3	101.0	7826.5	3023	97.059 ng/ml
Nordiazepam	5.897	379058	240180.0	60.0	185275.1	13586	992.686 ng/ml
Norfentanyl	4.112	707706	1553.8	40.2	744.4	317996	101.418 ng/ml
Norhydrocodone	3.115	221139	150.6	41.6	113.7	42291	1034.698 ng/ml
Noroxycodone	2.962	1410036	1235.3	43.6	6905.4	57120	982.101 ng/ml
O-desmethyl-tramadol	3.410	12878673	214616.6	6.1	55537.4	669792	1016.877 ng/ml
Oxazepam	5.758	89571	3076.0	78.4	1957.9	5568	968.174 ng/ml
Oxycodone	2.884	4689828	4807.6	29.4	1238.8	244266	993.508 ng/ml
Oxymorphone	1.460	1081359	5707.2	45.1	1881024.7	48018	968.397 ng/ml
Phentermine	3.813	883138	713.1	5.5	2081.5	111729	937.436 ng/ml
Promethazine	5.563	2257704	4877.7	31.2	589078.8	103185	1001.008 ng/ml
Quetiapine	5.570	4740587	180230.6	60.1	2001113.7	77158	950.867 ng/ml
Sertraline	5.782	246347	5838.9	100.0	87471.4	11520	1018.138 ng/ml
Temazepam	5.824	991152	19104.0	29.6	1153.9	46576	1041.630 ng/ml
Tramadol	4.268	10127551	190023.1	3.4	1683.7	609950	973.934 ng/ml
Trazodone	5.189	6219917	370239.1	78.7	2041.3	300011	946.828 ng/ml
Venlafaxine	5.073	10680050	867372.4	37.0	1439.2	534335	1017.415 ng/ml
Zolpidem	4.955	12468137	301480.5	28.9	265643.2	572980	973.797 ng/ml