


















Worklist: 3745

REVIEWED
By Sarah Pickle at 10:43 am, Oct 10, 2019

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2019-1587	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1801	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1830	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1874 ★ not included in this worklist 10/10/19	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1875	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1879	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1884	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1893	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1899	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1899	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1899	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1905	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1906	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1922	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
C2019-1923 ★ not included in this worklist 10/10/19	1	UCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date 10-08-19 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: 19552275-1 **Urine Blank lot:** 8919

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.

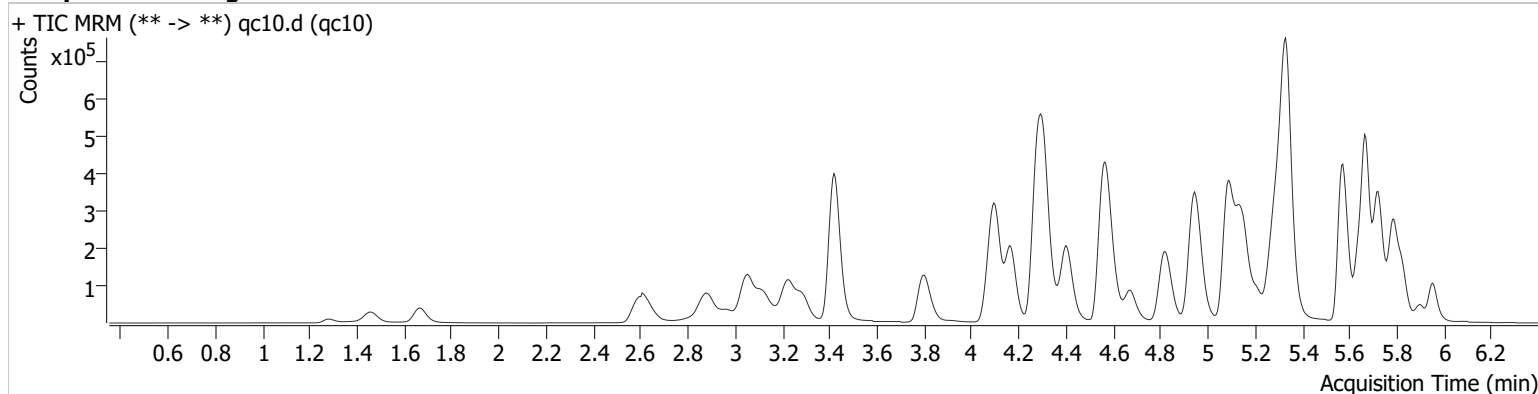
COMMENTS: Limited curve ranges: buprenorphine .5-50, dihydrocodeine 5-500, Meprobamate 5-500. Clonazepam qualitative only 1000 QC out of range. Blood samples only in this run.

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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	10/8/2019 8:20:11 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	2414	385.2	76.1	970.0	64949	0.998 ng/ml
7-aminoclonazepam	4.313	30928	530.1	83.2	1583.0	127904	10.292 ng/ml
a-hydroxyalprazolam	5.714	3603	373.5	67.9	1746.5	20688	9.931 ng/ml
alpha-PVP	4.412	112308	1460.4	52.8	2102.6	496369	9.906 ng/ml
Alprazolam	5.787	53723	1488.3	106.3	129.4	187353	10.293 ng/ml
Amphetamine	3.127	142636	2242.3	54.0	262.2	252200	10.131 ng/ml
Benzoylcegonine	3.936	2512	4934.8	7.0	31.0	8772	10.259 ng/ml
Buprenorphine	5.852	2176	239.8	15.5	450.4	67869	1.118 ng/ml
Bupropion	4.835	132948	725.5	58.3	630.1	501986	10.104 ng/ml
Carisoprodol	5.738	45393	60509.5	58.2	624.5	215092	10.052 ng/ml
Citalopram	5.272	93676	5231.7	43.1	48.7	418129	9.835 ng/ml
Clonazepam	5.633	11767	1911.9	31.8	1832.4	21048	9.545 ng/ml
Cocaine	4.307	100396	190.9	43.9	5290.5	789656	10.026 ng/ml
Codeine	2.653	13844	852.0	106.1	1367.5	64971	10.530 ng/ml
Cyclobenzaprine	5.645	96214	2655.2	10.0	3479.2	372212	9.899 ng/ml
Dextromethorphan	5.311	64061	3808.9	75.5	3187.9	308724	9.885 ng/ml
Dextrorphan	4.166	40971	6020.8	215.9	297.4	465060	10.403 ng/ml
Diazepam	5.957	39267	842.4	87.0	1885.5	188910	9.861 ng/ml
Dihydrocodeine	2.627	38029	2926.3	63.6	3851.4	210526	10.241 ng/ml
Diphenhydramine	5.337	273540	4049.3	33.4	1093.4	1522902	10.392 ng/ml
Doxylamine	4.579	285296	2115.2	97.2	1818.2	1233532	9.899 ng/ml
EDDP	5.300	43623	860.4	233.0	1723.4	503566	10.093 ng/ml
Fentanyl	5.143	9686	512.3	73.2	8042.0	500047	1.019 ng/ml
Fluoxetine	5.721	113353	2265.4	8.4	10357.2	457396	10.101 ng/ml
Hydrocodone	3.079	37304	1197.2	39.7	21.7	218617	9.878 ng/ml
Hydromorphone	1.673	27245	1870.4	74.4	2402.4	105282	9.759 ng/ml
Ketamine	4.092	88264	8952.5	37.7	813.1	427862	10.104 ng/ml
Lamotrigine	4.345	10014	1100.2	86.8	1515.2	308724	9.163 ng/ml
Lorazepam	5.761	5379	239.5	52.2	16.8	187353	10.600 ng/ml
Meprobamate	4.957	15611	21755.2	30.7	582.1	74172	10.334 ng/ml
Methadone	5.669	177088	4383.6	47.3	11269.6	866515	9.963 ng/ml
Methamphetamine	3.289	124833	566.5	39.6	283.6	415108	10.706 ng/ml
Metoprolol	4.364	26578	2431.7	94.8	1577.7	1522902	10.038 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	172632	2484.7	47.4	10724.9	866515	8.659 ng/ml
Mitragynine	5.276	25114	168.0	37.6	8208.0	308724	10.473 ng/ml
Morphine	1.287	5486	18777.2	21.5	41.7	7766	9.839 ng/ml
Norbuprenorphine	5.050	213	87.5	81.9	236.6	9302	1.077 ng/ml
Nordiazepam	5.907	22864	3939.4	63.2	2332.7	74100	10.422 ng/ml
Norfentanyl	4.127	15604	1032.4	39.3	324.2	691335	0.980 ng/ml
Norhydrocodone	3.125	1940	530.1	37.4	314.5	69436	8.456 ng/ml
Noroxycodone	2.982	26664	541.2	42.6	294.8	94070	10.019 ng/ml
O-desmethyl-tramadol	3.425	215697	1005.9	6.5	1012.9	1125444	10.421 ng/ml
Oxazepam	5.763	7799	242.5	73.7	60.4	46165	10.547 ng/ml
Oxycodone	2.900	64791	1540.5	28.6	243.3	306175	10.523 ng/ml
Oxymorphone	1.460	24831	135816.8	44.6	20.2	101565	9.366 ng/ml
Phentermine	3.833	41142	133.1	5.1	77.9	449838	9.923 ng/ml
Promethazine	5.573	155803	2474.6	32.3	84.0	703100	10.124 ng/ml
Quetiapine	5.586	129897	6887.6	58.0	27936.7	180006	10.448 ng/ml
Sertraline	5.788	50766	27689.9	104.0	60498.3	244700	9.820 ng/ml
Temazepam	5.829	47183	820.1	29.4	192.1	220691	10.256 ng/ml
Tramadol	4.288	226495	7153.3	3.4	104.7	1131284	10.516 ng/ml
Trazodone	5.214	127156	10626.6	79.7	5820.6	540824	10.565 ng/ml
Venlafaxine	5.088	190424	16933.7	38.5	393.6	989233	10.344 ng/ml
Zolpidem	4.965	223074	7927.6	30.8	3335.9	953430	10.261 ng/ml

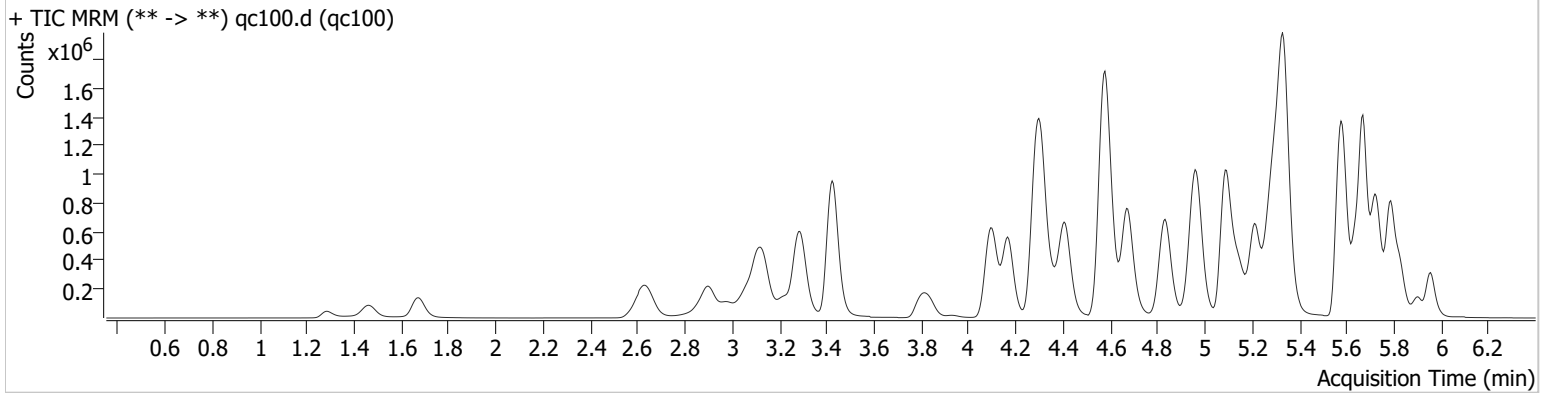
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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	10/8/2019 8:31:01 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	22404	49610.8	73.1	37159.1	60773	9.913 ng/ml
7-aminoclonazepam	4.313	219768	980.7	84.1	538.7	101988	100.571 ng/ml
a-hydroxyalprazolam	5.709	29498	1059.9	59.0	712.0	17468	96.646 ng/ml
alpha-PVP	4.412	1102026	6034.1	51.9	45193.5	491071	96.302 ng/ml
Alprazolam	5.787	440821	161.6	110.0	845.3	159287	96.812 ng/ml
Amphetamine	3.127	1236986	809.4	52.0	1313.4	242359	106.932 ng/ml
Benzoylcegonine	3.936	23907	30446.7	8.2	1489.5	9234	95.394 ng/ml
Buprenorphine	5.852	18364	8155.7	16.9	1153.2	61425	8.983 ng/ml
Bupropion	4.835	1260039	4303.0	59.9	1261.7	511389	100.471 ng/ml
Carisoprodol	5.738	375205	292912.0	56.7	4078.6	176947	102.391 ng/ml
Citalopram	5.272	835267	247.4	46.3	35992.7	387344	99.403 ng/ml
Clonazepam	5.633	100572	54189.7	33.6	35895.1	18434	104.552 ng/ml
Cocaine	4.307	898020	58521.9	44.6	1507.3	729884	96.356 ng/ml
Codeine	2.653	114531	315.0	107.4	1639.5	58030	101.946 ng/ml
Cyclobenzaprine	5.640	830234	646309.7	9.9	2468.0	329852	99.591 ng/ml
Dextromethorphan	5.311	545387	3725.3	76.5	41065.5	271705	96.934 ng/ml
Dextrorphan	4.166	396522	66211.8	215.1	66488.6	460908	101.482 ng/ml
Diazepam	5.957	346094	947.0	85.6	6338.2	172346	99.415 ng/ml
Dihydrocodeine	2.622	345747	766.4	64.6	22536.7	209072	102.586 ng/ml
Diphenhydramine	5.337	2485089	83109.0	33.3	27762.5	1406972	96.704 ng/ml
Doxylamine	4.579	2824670	172072.9	96.9	4373.8	1240534	99.840 ng/ml
EDDP	5.305	426962	280026.9	236.5	11620.8	507494	99.731 ng/ml
Fentanyl	5.148	92091	21332.8	74.0	50566.2	480495	9.762 ng/ml
Fluoxetine	5.721	915882	84762.2	8.8	103005.5	392958	100.495 ng/ml
Hydrocodone	3.079	351530	741.1	39.5	25.1	217504	100.232 ng/ml
Hydromorphone	1.673	263561	16587.2	73.7	28583.6	103004	96.998 ng/ml
Ketamine	4.097	841584	45880.1	38.1	2811.8	423816	102.477 ng/ml
Lamotrigine	4.345	83753	681.6	88.7	807.1	271705	97.969 ng/ml
Lorazepam	5.761	37482	1622.8	55.9	51.3	159287	96.727 ng/ml
Meprobamate	4.962	128962	114402.9	29.1	884.6	67468	101.595 ng/ml
Methadone	5.669	1684502	52007.3	45.9	10906.5	822560	99.778 ng/ml
Methamphetamine	3.289	1222906	7393.0	40.2	1466.5	470130	106.017 ng/ml
Metoprolol	4.364	227598	6232.9	95.3	24686.5	1406972	102.072 ng/ml



AM #28 Multi-Drug Quant. Results

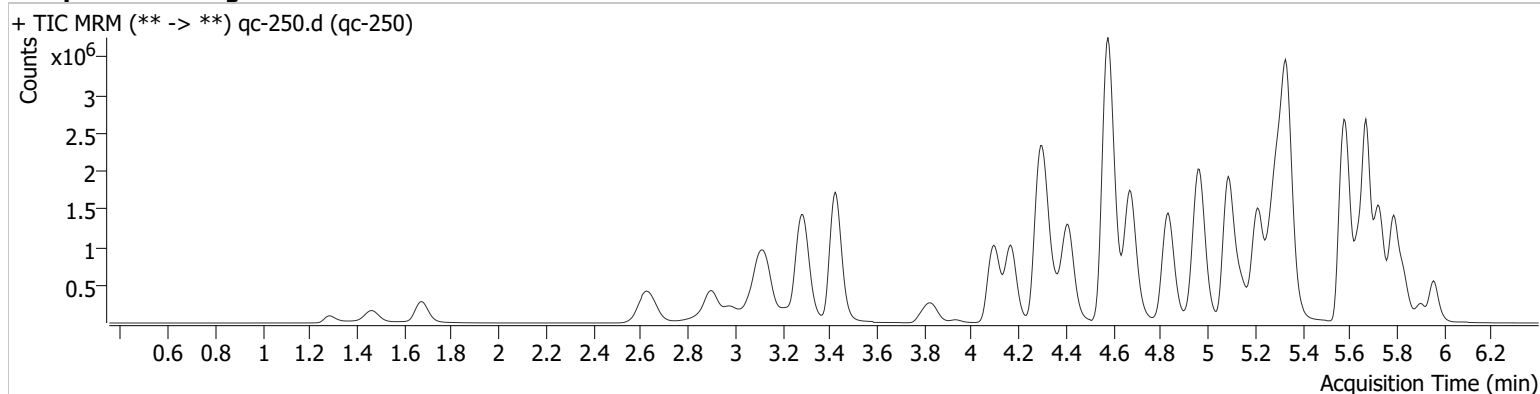
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	1682957	8038.4	46.6	1665.1	822560	87.713 ng/ml
Mitragynine	5.276	211271	184990.9	40.4	80917.5	271705	102.139 ng/ml
Morphine	1.287	51942	93993.5	21.6	195.1	7304	103.295 ng/ml
Norbuprenorphine	5.045	1696	271.1	109.7	1459.6	9415	9.979 ng/ml
Nordiazepam	5.907	179246	340946.2	61.6	221310.2	60836	102.714 ng/ml
Norfentanyl	4.127	148709	15170.6	40.9	3074.3	673778	9.475 ng/ml
Norhydrocodone	3.130	27727	1482.3	41.2	513.4	74235	95.851 ng/ml
Noroxycodone	2.982	243267	1584.0	41.3	2030.9	88063	104.502 ng/ml
O-desmethyl-tramadol	3.430	2058628	113674.8	6.4	1294.0	1106883	98.807 ng/ml
Oxazepam	5.763	47901	1335.5	77.5	647.9	29580	97.134 ng/ml
Oxycodone	2.900	603242	7894.1	29.1	4763.0	306365	101.961 ng/ml
Oxymorphone	1.460	228901	262750.7	43.8	433938.4	95821	103.034 ng/ml
Phentermine	3.833	387900	1525.2	4.6	388.4	452603	103.622 ng/ml
Promethazine	5.573	1383724	1835731.7	31.6	6793.7	638700	99.078 ng/ml
Quetiapine	5.586	1185134	1534478.5	59.4	2428.0	169397	105.791 ng/ml
Sertraline	5.788	384585	14755.9	102.3	27417.7	193164	95.735 ng/ml
Temazepam	5.829	400337	10947.7	30.4	1220.4	191009	101.338 ng/ml
Tramadol	4.288	2069606	116601.0	3.5	4832.0	1128402	104.787 ng/ml
Trazodone	5.214	1232331	89705.1	78.8	900.8	564377	106.323 ng/ml
Venlafaxine	5.088	1821015	91846.4	39.2	12475.3	974424	95.534 ng/ml
Zolpidem	4.965	2163975	608.2	30.6	26499.4	962450	103.308 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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 10/8/2019 8:41:49 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	50653	119725.2	74.2	71294.3	52716	25.841 ng/ml
7-aminoclonazepam	4.313	342232	51264.3	84.3	178.0	69003	232.937 ng/ml
a-hydroxyalprazolam	5.709	59375	1176.3	58.5	740.6	14613	232.599 ng/ml
alpha-PVP	4.412	2539133	205164.3	52.2	80675.5	443221	245.502 ng/ml
Alprazolam	5.787	910134	4745.0	109.4	5415.9	129917	244.621 ng/ml
Amphetamine	3.127	2518428	10669.1	52.5	5601.7	221116	241.003 ng/ml
Benzoylcegonine	3.936	63659	742.8	7.7	28.4	9413	249.711 ng/ml
Buprenorphine	5.852	46854	20399.5	15.8	3002.2	51278	27.098 ng/ml
Bupropion	4.835	2994527	5890.6	59.9	115328.7	482232	254.395 ng/ml
Carisoprodol	5.738	705331	947265.7	58.1	4584.4	129046	264.172 ng/ml
Citalopram	5.266	1752741	87624.7	46.7	52329.0	325881	248.750 ng/ml
Clonazepam	5.633	187402	11211.1	34.3	56328.8	14821	244.024 ng/ml
Cocaine	4.307	1906516	91820.9	44.3	37553.2	615212	242.578 ng/ml
Codeine	2.648	245766	849.8	104.6	967.6	49252	258.567 ng/ml
Cyclobenzaprine	5.640	1867540	227599.0	9.8	29915.6	289463	255.854 ng/ml
Dextromethorphan	5.311	1162709	6025.5	75.8	1644.0	224254	250.621 ng/ml
Dextrorphan	4.166	895519	245822.7	215.7	86840.0	409948	257.662 ng/ml
Diazepam	5.957	720398	4068.6	86.3	12176.0	142515	250.973 ng/ml
Dihydrocodeine	2.617	750007	1552.7	64.5	3258.2	192719	242.881 ng/ml
Diphenhydramine	5.337	5348173	1820.5	33.6	81294.4	1179772	247.225 ng/ml
Doxylamine	4.579	6727754	247820.5	97.2	193517.6	1169608	252.630 ng/ml
EDDP	5.300	1009993	4624.1	233.7	318112.3	479092	250.199 ng/ml
Fentanyl	5.148	235264	63719.6	74.7	1096.1	471885	25.336 ng/ml
Fluoxetine	5.721	2082078	90994.6	8.4	116349.5	345798	260.647 ng/ml
Hydrocodone	3.079	732628	578.0	42.8	24.1	202257	225.622 ng/ml
Hydromorphone	1.673	583389	19816.1	77.1	3101.1	95186	232.416 ng/ml
Ketamine	4.092	1915994	613041.4	38.2	1186.1	389388	254.827 ng/ml
Lamotrigine	4.345	158886	2769.5	88.5	7677.8	224254	226.845 ng/ml
Lorazepam	5.761	68756	4839.0	55.3	855.0	129917	219.255 ng/ml
Meprobamate	4.957	256402	215398.5	28.8	110.8	57202	239.531 ng/ml
Methadone	5.669	3886366	40606.8	45.7	99130.8	749695	252.565 ng/ml
Methamphetamine	3.289	3061965	2240.7	40.2	1181.5	501171	251.374 ng/ml
Metoprolol	4.364	441068	18125.0	96.8	79039.7	1179772	237.334 ng/ml



AM #28 Multi-Drug Quant. Results

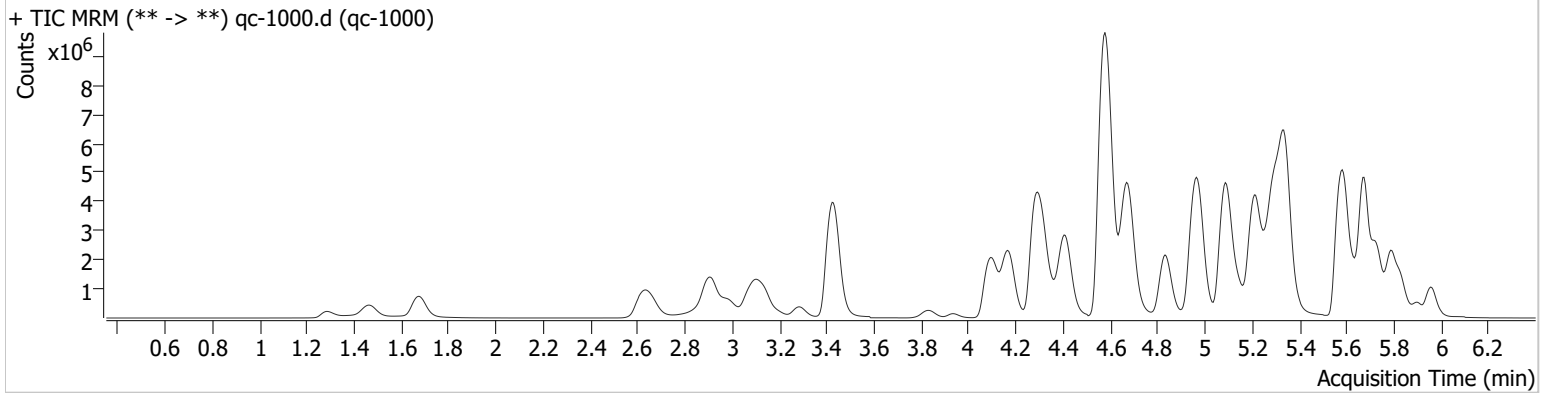
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	3990419	304196.0	46.1	2151.1	749695	227.978 ng/ml
Mitragynine	5.276	477689	451883.5	39.4	1446.5	224254	280.217 ng/ml
Morphine	1.287	116235	899944.9	22.3	213883.2	6605	256.295 ng/ml
Norbuprenorphine	5.045	4191	2654.7	104.2	4559.8	9240	25.460 ng/ml
Nordiazepam	5.907	350844	36002.8	60.4	15171.6	47486	258.131 ng/ml
Norfentanyl	4.127	333965	25908.5	40.2	1169.2	572535	25.022 ng/ml
Norhydrocodone	3.130	65995	3921.0	41.7	19.4	66907	250.855 ng/ml
Noroxycodone	2.982	528983	1172.0	41.7	706.0	77507	259.339 ng/ml
O-desmethyl-tramadol	3.425	4767939	102512.0	6.3	17929.8	1003972	251.887 ng/ml
Oxazepam	5.763	82919	1902.3	71.8	451.0	19228	257.901 ng/ml
Oxycodone	2.900	1389313	2376.3	29.4	943.5	283292	254.677 ng/ml
Oxymorphone	1.460	510027	2107302.9	44.2	1560.1	86540	256.124 ng/ml
Phentermine	3.833	834467	1283.7	4.5	1315.5	421746	240.890 ng/ml
Promethazine	5.568	3339127	533559.2	30.7	3597.5	602738	253.374 ng/ml
Quetiapine	5.586	2533827	423155.4	58.9	1060203.0	146469	262.348 ng/ml
Sertraline	5.788	785563	478044.7	101.6	39243.9	155811	242.697 ng/ml
Temazepam	5.829	833740	24231.7	30.2	1768.8	155914	258.691 ng/ml
Tramadol	4.288	4532660	224683.9	3.4	212.4	1007270	258.600 ng/ml
Trazodone	5.209	2963107	114765.6	78.3	343896.5	582472	249.024 ng/ml
Venlafaxine	5.088	4232749	176019.3	38.2	6590.2	874189	246.627 ng/ml
Zolpidem	4.965	4975372	325414.3	30.1	1068.1	881779	260.077 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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	10/8/2019 8:52:36 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	175149	26196.1	74.5	813.4	43132	109.218 ng/ml
7-aminoclonazepam	4.318	396405	4568.9	84.3	17168.6	22777	820.203 ng/ml
a-hydroxyalprazolam	5.714	133119	2428.2	59.9	778.0	7048	1081.312 ng/ml
alpha-PVP	4.412	6305206	744676.9	51.6	293143.7	266587	1012.875 ng/ml
Alprazolam	5.787	2060614	∞	110.2	9112.1	72414	992.740 ng/ml
Amphetamine	3.132	2710670	9884.0	50.3	15387.7	63917	902.635 ng/ml
Benzoylcegonine	3.936	275152	57656.2	7.9	1073.9	8665	1173.611 ng/ml
Buprenorphine	5.857	152394	130947.4	16.2	309.1	29545	152.167 ng/ml
Bupropion	4.835	4712426	78383.8	59.9	22639.6	190923	1013.486 ng/ml
Carisoprodol	5.744	1422896	1524288.4	58.4	12682.4	66449	1035.403 ng/ml
Citalopram	5.261	3447706	142705.8	46.0	123304.5	158610	1006.995 ng/ml
Clonazepam	5.622	190188	46466.6	33.8	76726.5	4983	739.229 ng/ml
Cocaine	4.312	4439281	161313.7	43.7	4481.0	353008	984.145 ng/ml
Codeine	2.663	600236	48410.5	106.8	1443.7	32335	963.325 ng/ml
Cyclobenzaprine	5.640	2799910	130948.2	9.9	1719.5	115775	960.065 ng/ml
Dextromethorphan	5.316	2183563	8919.1	75.4	87648.9	104545	1010.058 ng/ml
Dextrorphan	4.171	2485110	309717.5	218.7	219412.0	281279	1042.068 ng/ml
Diazepam	5.957	1650879	4443.5	87.0	6209.1	81162	1011.355 ng/ml
Dihydrocodeine	2.622	2020012	69267.5	64.0	2861.4	165267	765.135 ng/ml
Diphenhydramine	5.342	11729311	1052564.7	32.8	221367.9	614988	1038.148 ng/ml
Doxylamine	4.579	20297468	2069837.3	97.2	562482.0	942539	946.539 ng/ml
EDDP	5.300	3363939	6570.7	238.7	1313934.4	385101	1037.335 ng/ml
Fentanyl	5.148	824654	1812.1	76.6	818880.9	378765	110.521 ng/ml
Fluoxetine	5.721	3409435	216769.5	8.4	261300.7	142992	1034.103 ng/ml
Hydrocodone	3.079	2649622	∞	38.4	647.3	164421	1006.468 ng/ml
Hydromorphone	1.678	1875028	4156773.1	73.8	61900.8	72403	982.236 ng/ml
Ketamine	4.092	5185171	5290552.8	37.6	50758.4	284925	944.101 ng/ml
Lamotrigine	4.345	262022	460.4	88.0	2275.1	104545	805.700 ng/ml
Lorazepam	5.761	175430	10144.0	57.1	1451.2	72414	1008.549 ng/ml
Meprobamate	4.957	505865	443.7	29.3	59786.5	37132	729.961 ng/ml
Methadone	5.674	9197987	146751.0	45.0	116159.0	434190	1032.097 ng/ml
Methamphetamine	3.289	700896	246.6	40.4	516.5	34805	832.571 ng/ml
Metoprolol	4.369	900605	4175.2	96.1	156141.1	614988	932.837 ng/ml

ocr

ocr

ocr



AM #28 Multi-Drug Quant. Results

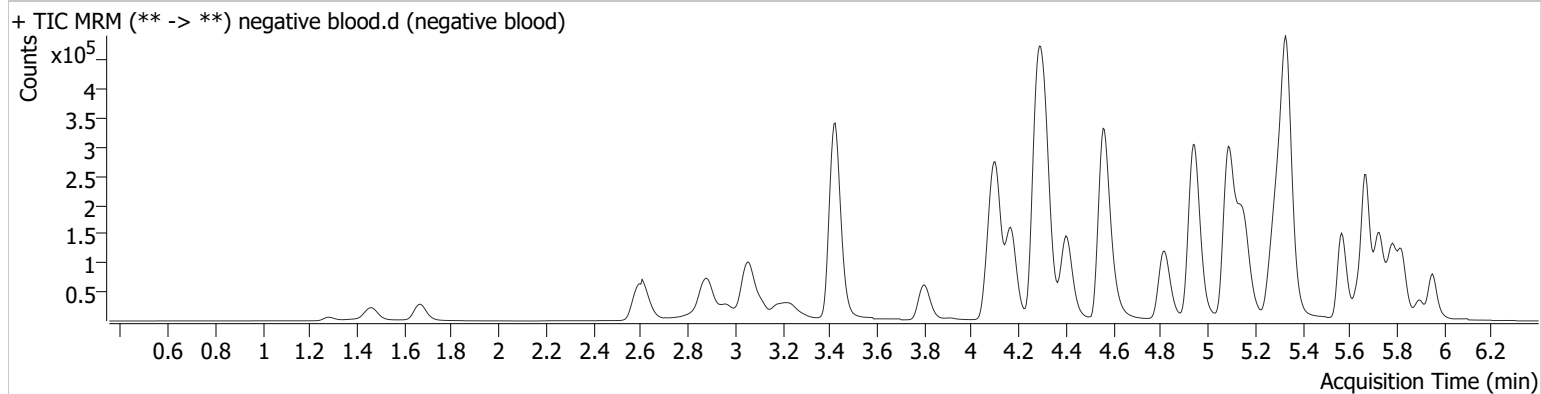
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.675	11748368	232611.6	45.8	430201.6	434190	1158.395 ng/ml
Mitragynine	5.271	1064130	129831.7	40.5	430343.8	104545	1339.897 ng/ml
Morphine	1.287	315462	283111.1	21.8	175669.6	4786	961.138 ng/ml
Norbuprenorphine	5.039	14459	12180.7	98.4	196.3	8509	95.983 ng/ml
Nordiazepam	5.902	690657	668322.2	61.7	523763.3	23838	1013.314 ng/ml
Norfentanyl	4.127	835943	141605.1	39.6	8513.0	335672	106.791 ng/ml
Norhydrocodone	3.135	222005	300.7	41.9	839.0	45013	1248.768 ng/ml
Noroxycodone	2.982	1507730	1274.5	42.6	1211.1	58399	983.224 ng/ml
O-desmethyl-tramadol	3.428	14273691	559121.8	6.1	57071.6	730565	1035.442 ng/ml
Oxazepam	5.763	201047	831.3	73.3	3498.5	11877	1011.004 ng/ml
Oxycodone	2.905	5332830	∞	29.1	5749.5	268506	1032.886 ng/ml
Oxymorphone	1.465	1601338	4135.6	43.9	3321935.6	73052	956.195 ng/ml
Phentermine	3.833	955809	3537.6	4.7	1526.1	129424	902.588 ng/ml
Promethazine	5.568	7214227	3324.8	30.7	185073.9	325440	1013.895 ng/ml
Quetiapine	5.591	5813792	3737608.4	58.3	5849222.9	96035	919.370 ng/ml
Sertraline	5.793	1067960	26901.2	102.4	64867.9	52360	982.364 ng/ml
Temazepam	5.829	2020476	19608.8	30.8	20188.1	93549	1045.125 ng/ml
Tramadol	4.284	11196206	223073.4	3.4	314.0	687083	939.161 ng/ml
Trazodone	5.209	8743832	345535.5	77.2	382585.7	515603	832.457 ng/ml
Venlafaxine	5.088	12685979	429268.6	37.2	85544.2	638819	1009.769 ng/ml
Zolpidem	4.965	14543466	782436.8	29.5	2029.0	703306	954.602 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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	10/8/2019 9:35:27 PM		
Sample Info.			

Sample Chromatogram

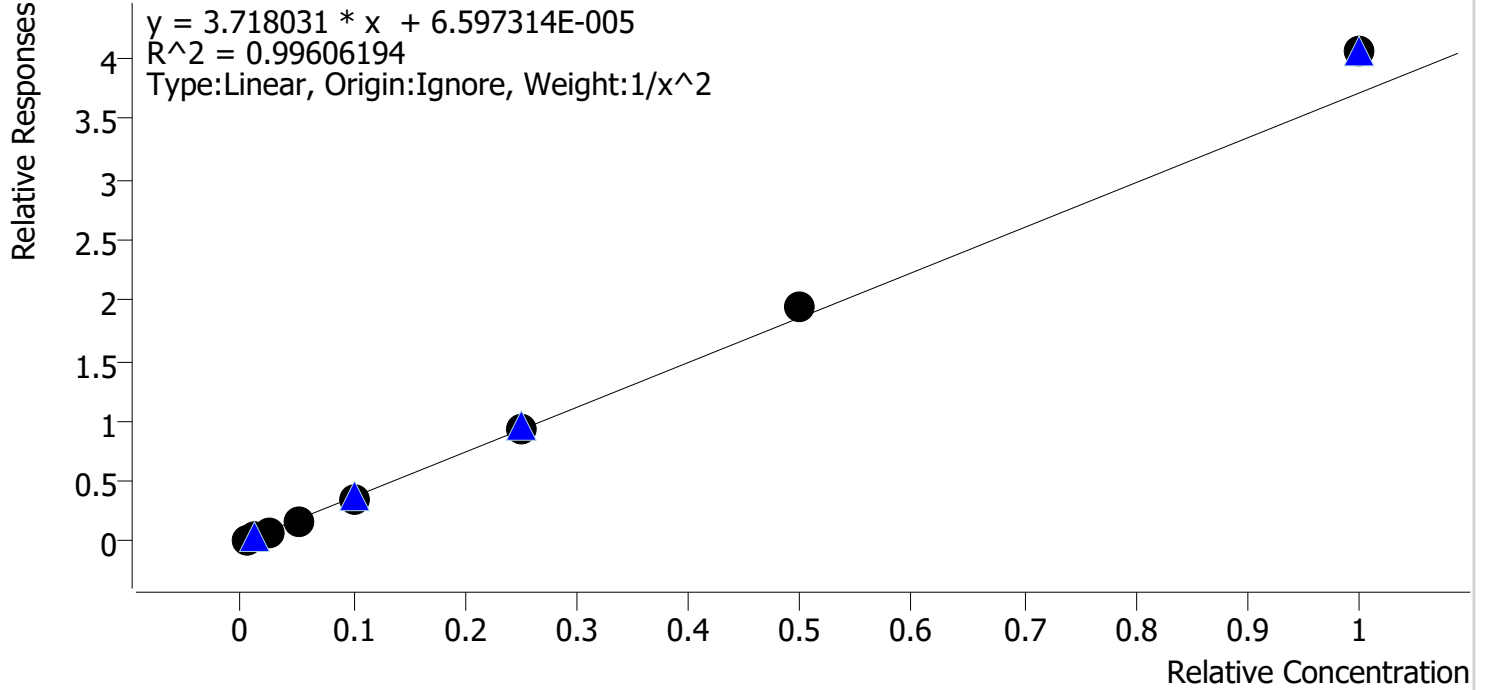


Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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

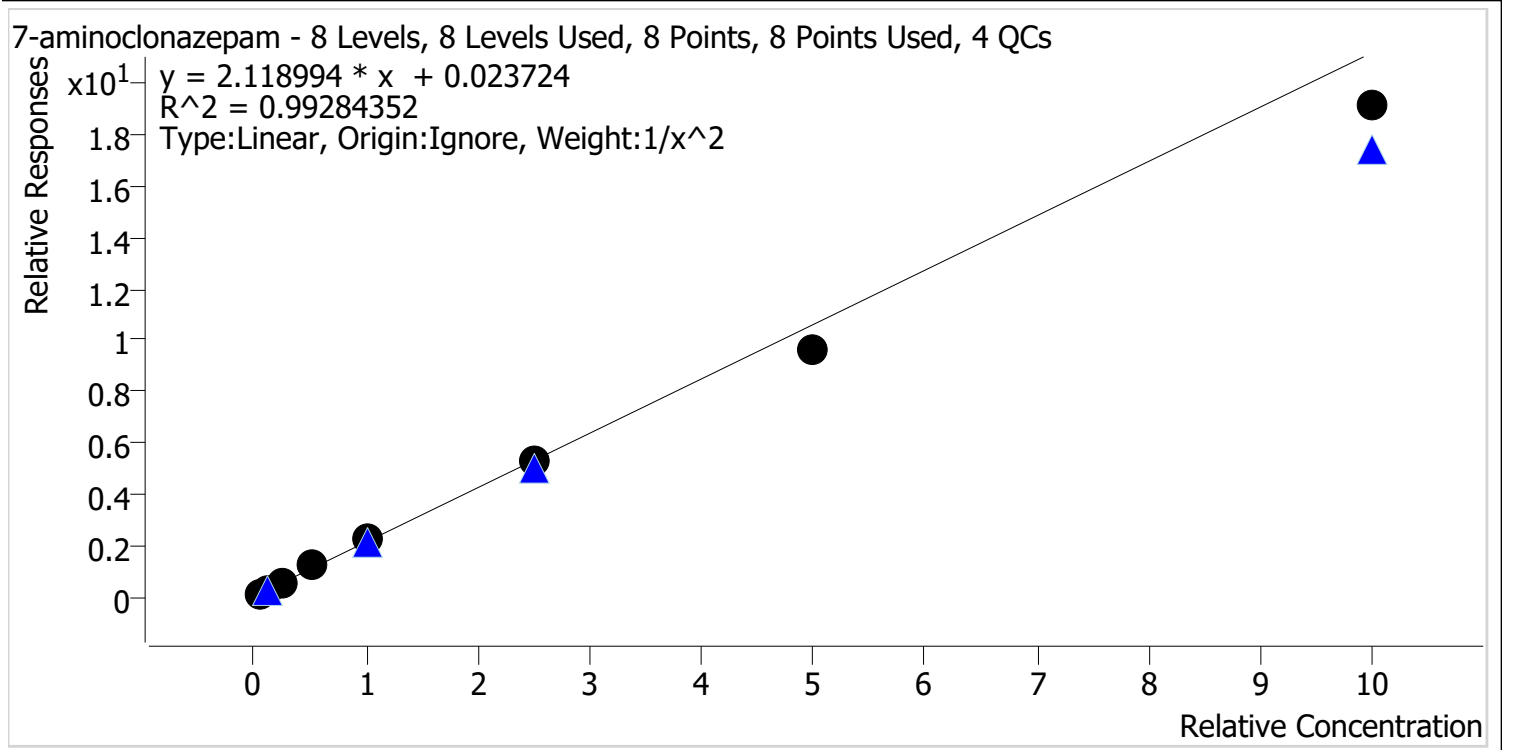


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	104.0
cal 2	2	✓	1.0	1.0	95.4
cal 3	3	✓	2.5	2.3	93.5
cal 4	4	✓	5.0	4.8	96.1
cal 5	5	✓	10.0	9.7	96.9
cal 6	6	✓	25.0	25.1	100.2
cal 7	7	✓	50.0	52.3	104.6
cal 8	8	✓	100.0	109.1	109.1

Compound Calibration Report



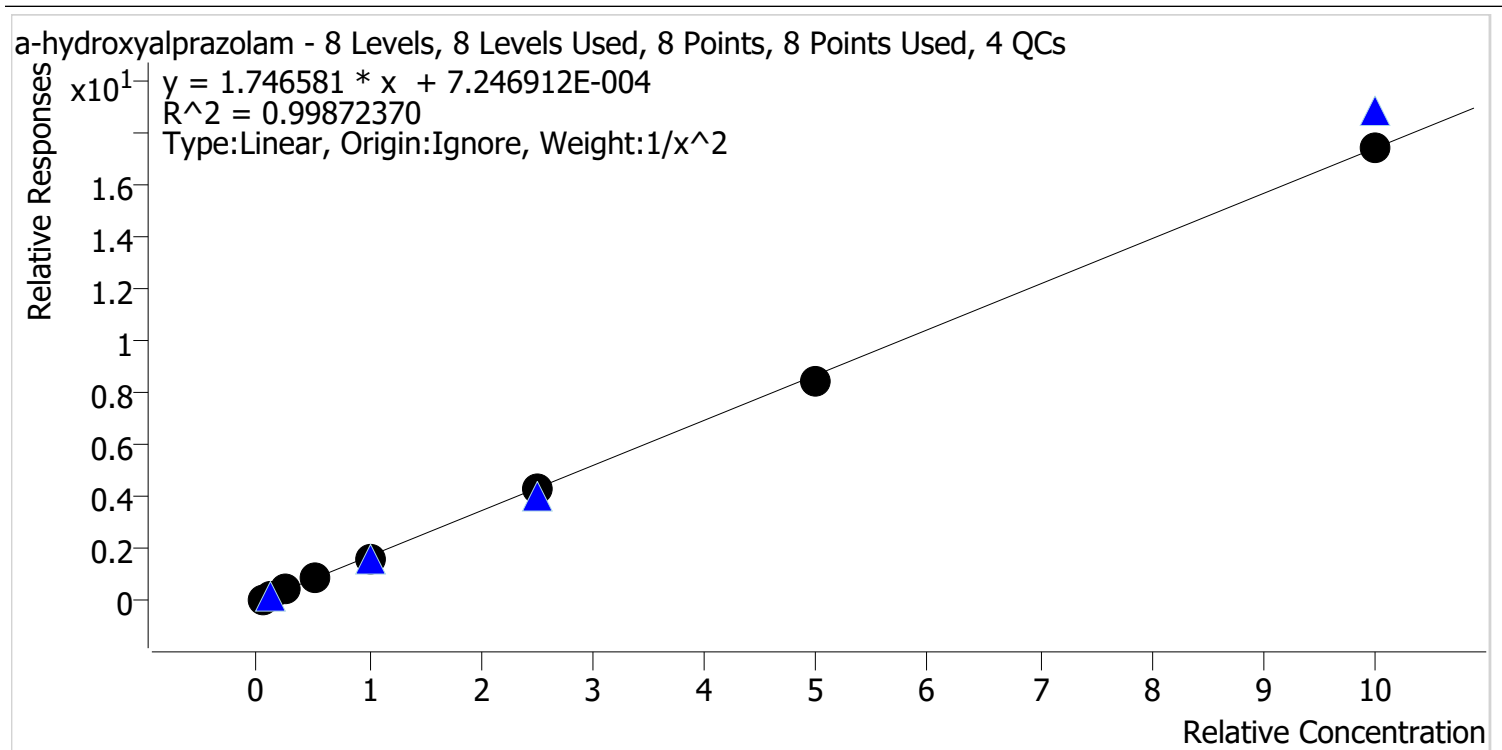
Batch results	D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin		
Last Cal. Update	10/9/2019 9:20 AM		
Analyst Name	ISP\datastor		
Analyte	7-aminoclonazepam	Internal Standard	7-Aminoclonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.5
cal 2	2	✓	10.0	10.3	102.8
cal 3	3	✓	25.0	26.0	104.2
cal 4	4	✓	50.0	55.6	111.2
cal 5	5	✓	100.0	105.1	105.1
cal 6	6	✓	250.0	249.5	99.8
cal 7	7	✓	500.0	450.7	90.1
cal 8	8	✓	1000.0	902.7	90.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
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	4.8	96.9
cal 2	2	✓	10.0	10.5	104.8
cal 3	3	✓	25.0	26.1	104.5
cal 4	4	✓	50.0	49.8	99.6
cal 5	5	✓	100.0	97.1	97.1
cal 6	6	✓	250.0	248.8	99.5
cal 7	7	✓	500.0	487.8	97.6
cal 8	8	✓	1000.0	999.8	100.0

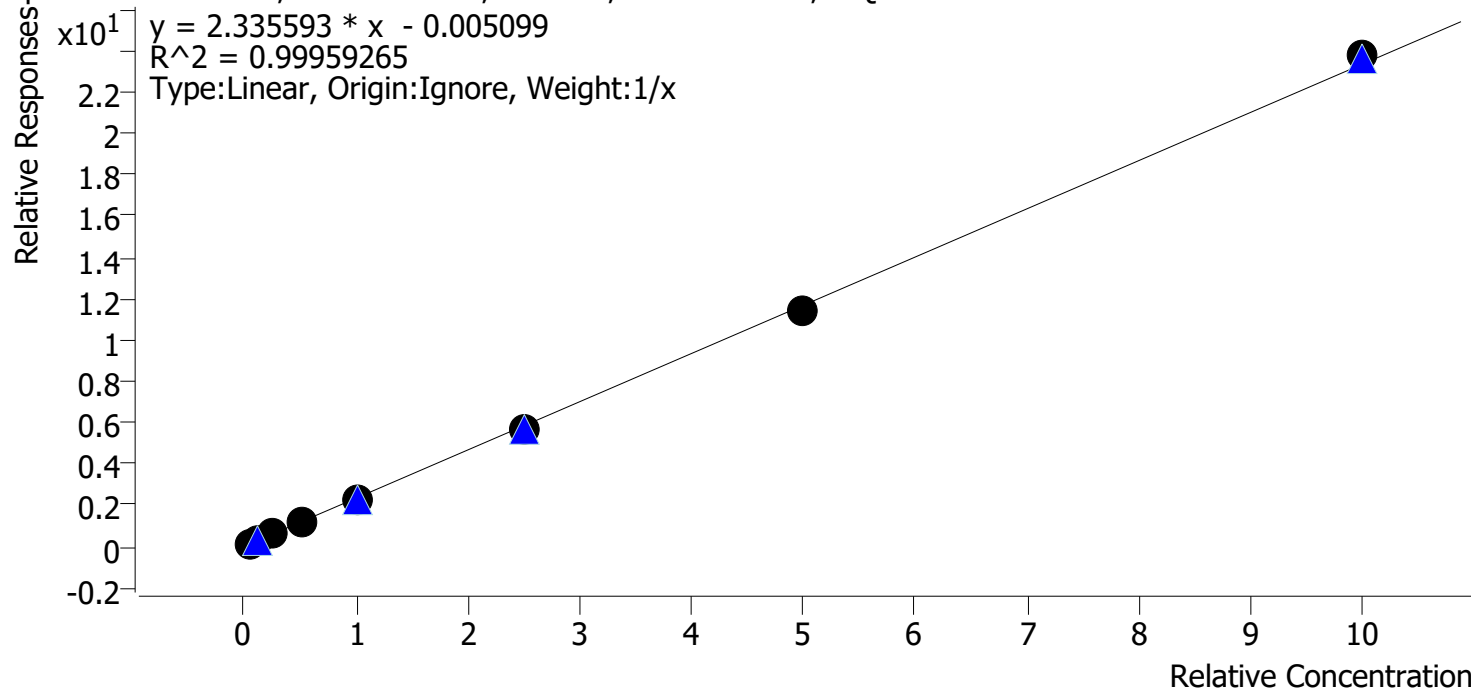
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte alpha-PVP

Internal Standard alpha-PVP-d8

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

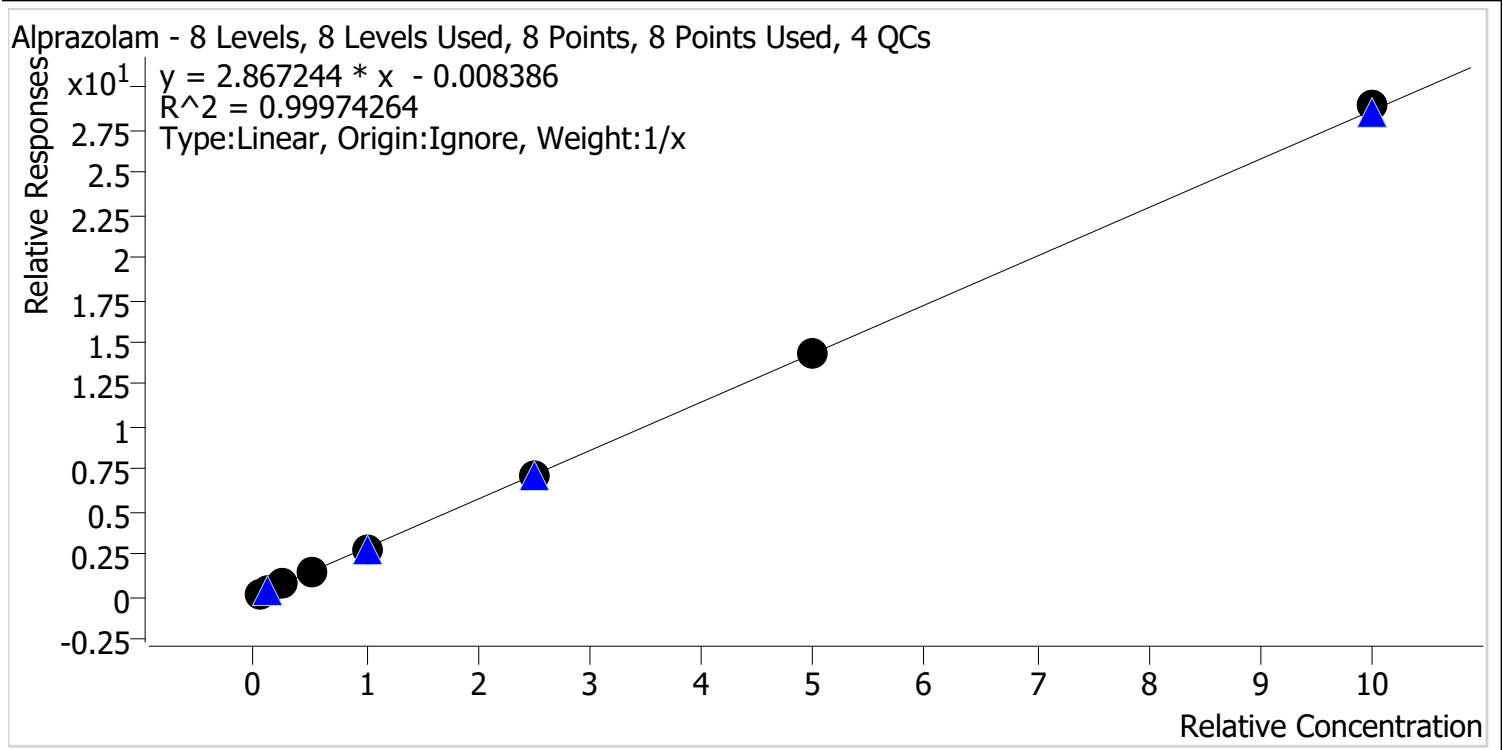


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	107.0
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	24.6	98.4
cal 4	4	✓	50.0	49.5	98.9
cal 5	5	✓	100.0	97.5	97.5
cal 6	6	✓	250.0	245.4	98.2
cal 7	7	✓	500.0	489.7	97.9
cal 8	8	✓	1000.0	1018.0	101.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5



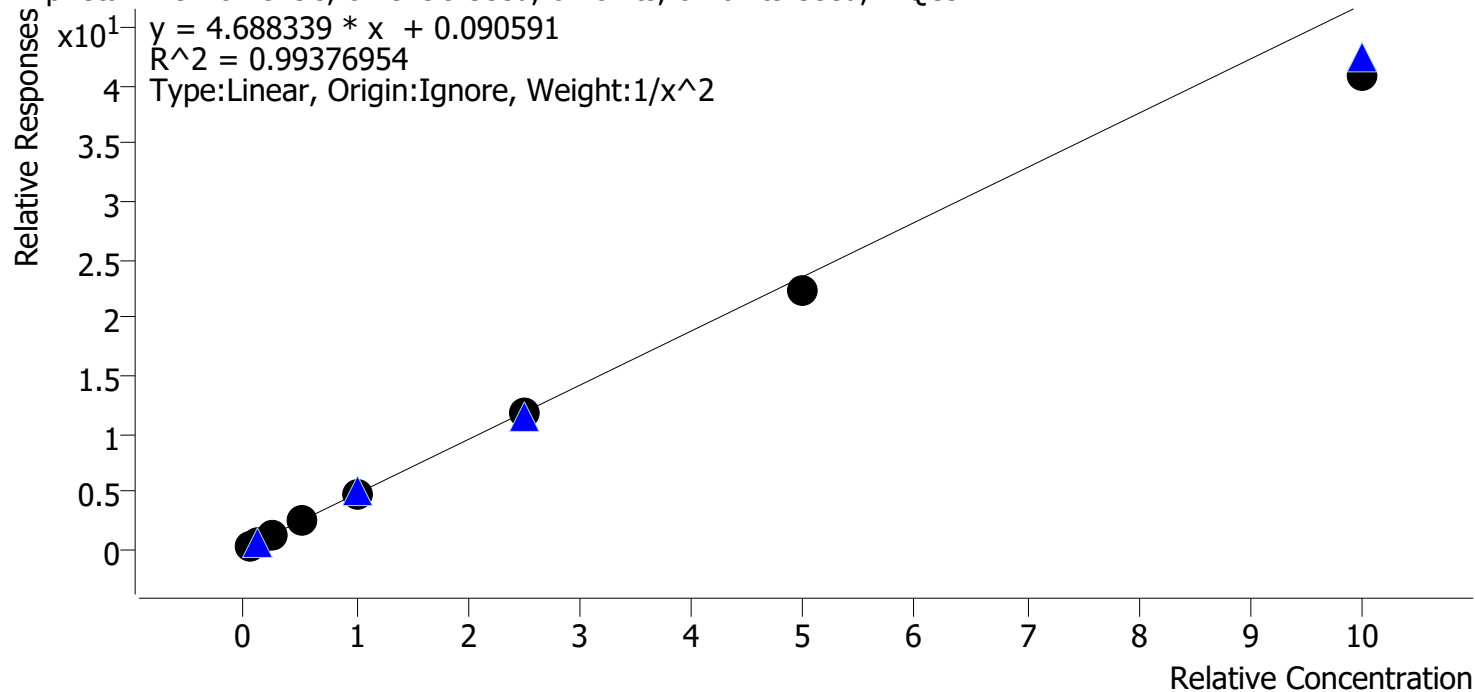
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.5
cal 2	2	✓	10.0	10.2	101.6
cal 3	3	✓	25.0	24.2	96.9
cal 4	4	✓	50.0	49.1	98.2
cal 5	5	✓	100.0	95.0	95.0
cal 6	6	✓	250.0	248.2	99.3
cal 7	7	✓	500.0	497.9	99.6
cal 8	8	✓	1000.0	1010.1	101.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Amphetamine

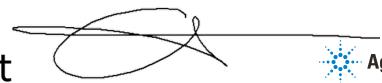
Internal Standard Amphetamine-D11

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



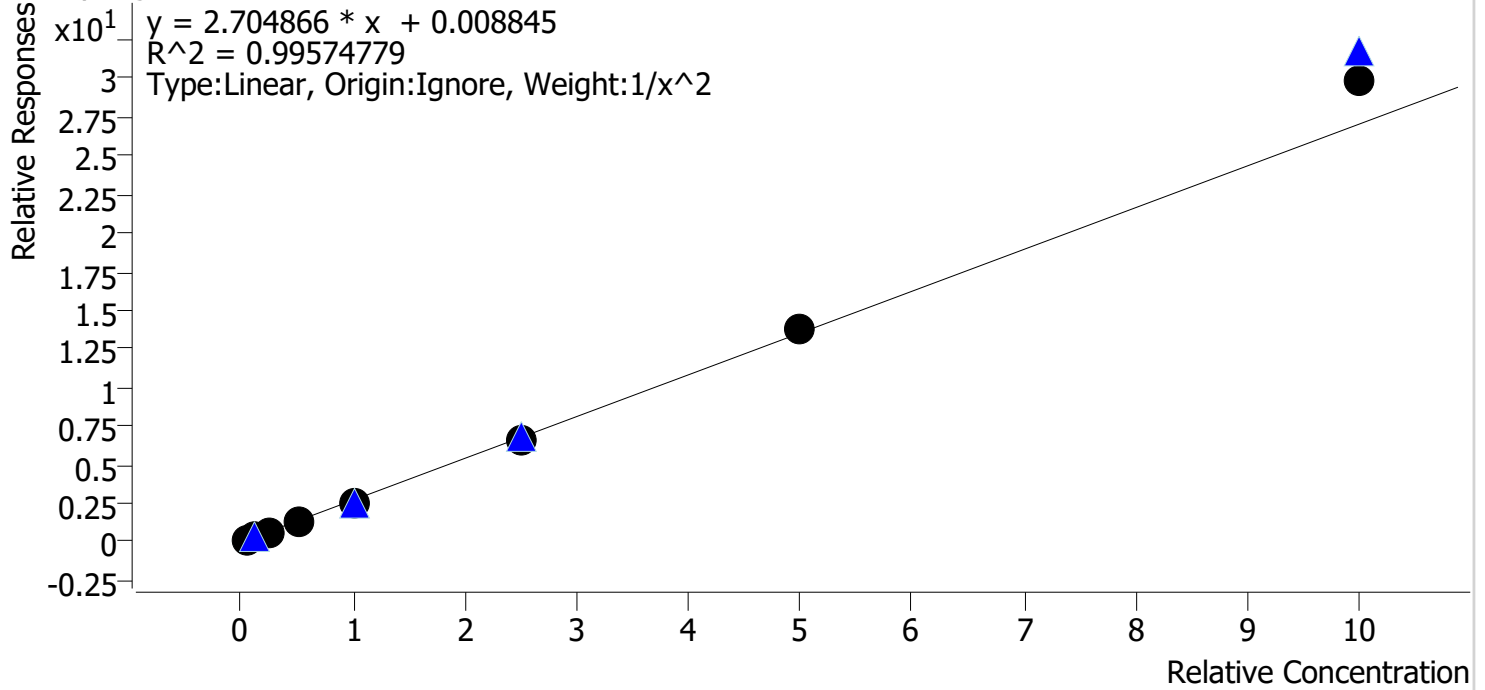
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.7
cal 2	2	✓	10.0	10.2	101.7
cal 3	3	✓	25.0	27.0	108.1
cal 4	4	✓	50.0	53.9	107.9
cal 5	5	✓	100.0	102.2	102.2
cal 6	6	✓	250.0	251.8	100.7
cal 7	7	✓	500.0	476.9	95.4
cal 8	8	✓	1000.0	872.6	87.3

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



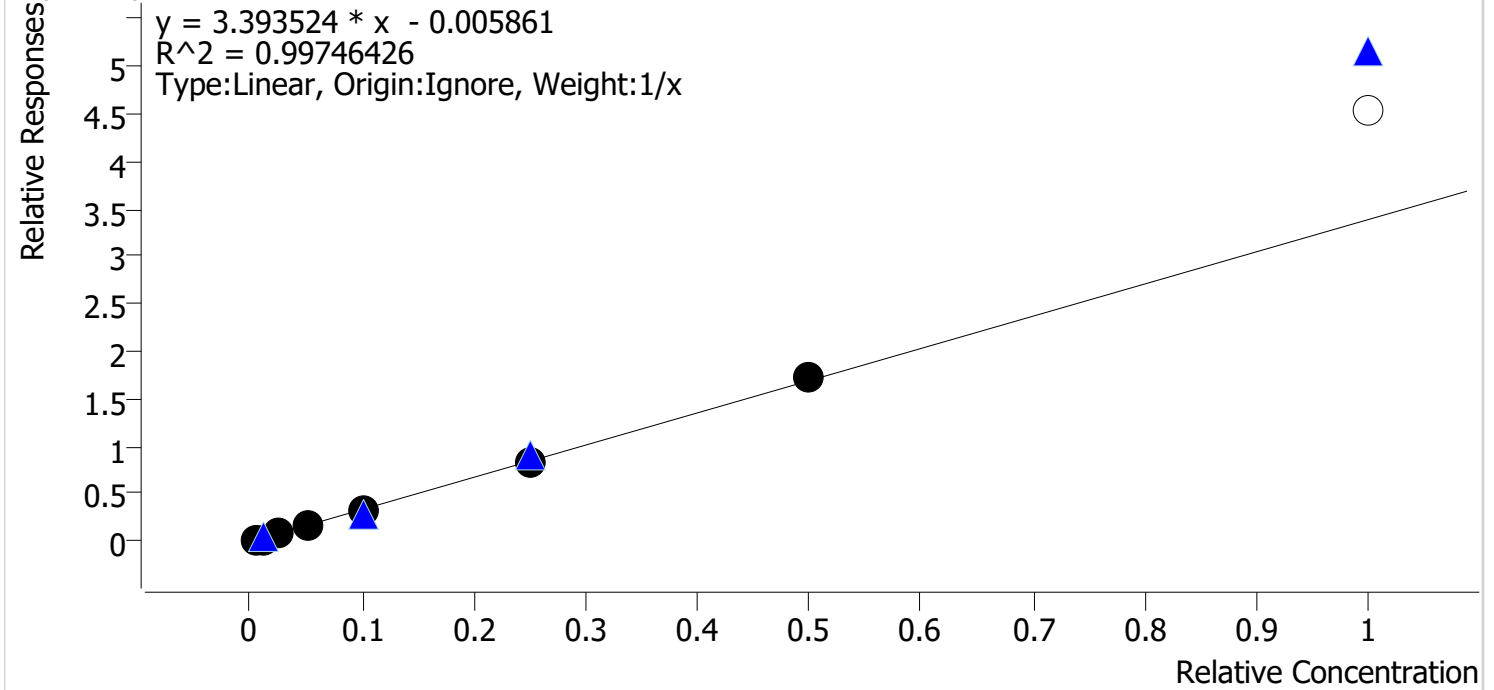
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.3
cal 2	2	✓	10.0	9.4	94.1
cal 3	3	✓	25.0	25.4	101.7
cal 4	4	✓	50.0	47.6	95.3
cal 5	5	✓	100.0	94.8	94.8
cal 6	6	✓	250.0	244.4	97.8
cal 7	7	✓	500.0	511.0	102.2
cal 8	8	✓	1000.0	1108.2	110.8

Compound Calibration Report



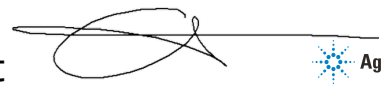
Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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



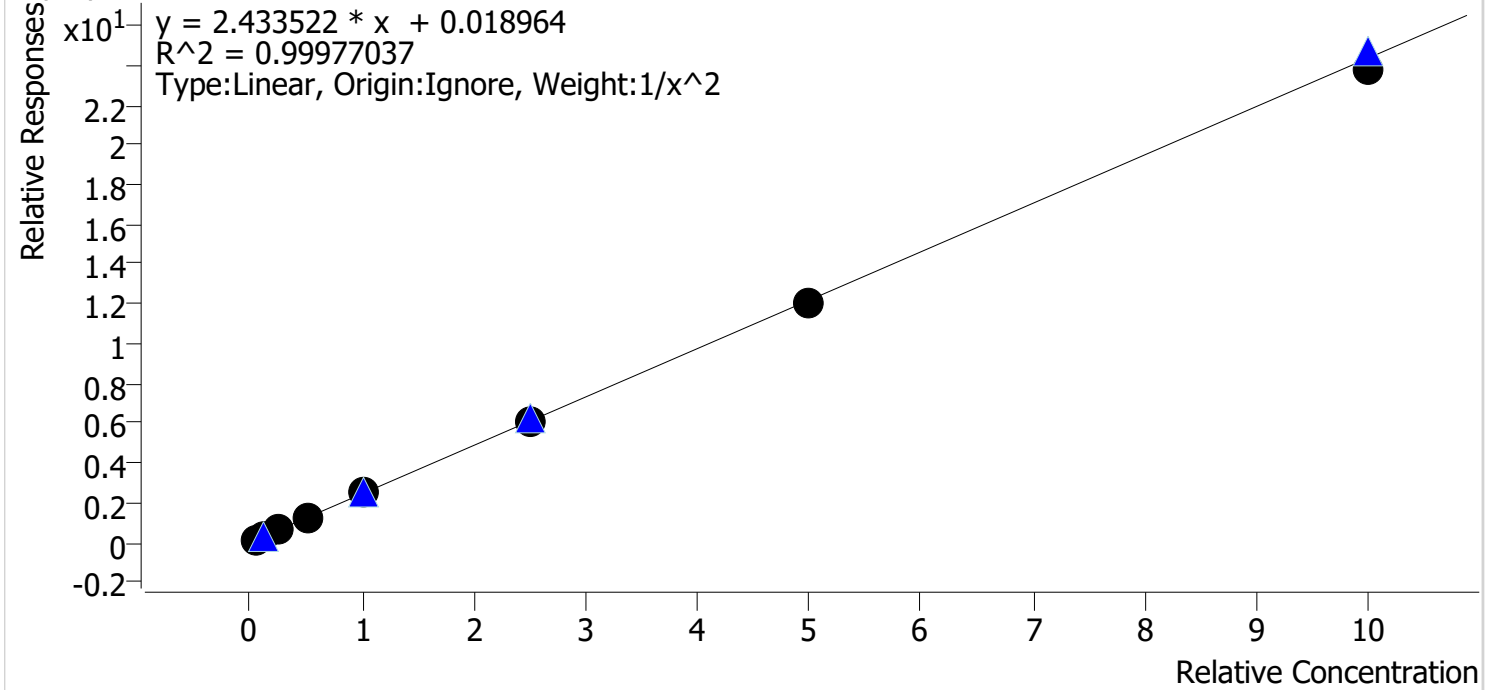
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.6	123.5
cal 2	2	✓	1.0	1.0	100.0
cal 3	3	✓	2.5	2.3	90.8
cal 4	4	✓	5.0	4.6	92.1
cal 5	5	✓	10.0	9.1	90.9
cal 6	6	✓	25.0	25.0	99.8
cal 7	7	✓	50.0	51.5	102.9
cal 8	8	x	100.0	133.9	133.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

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



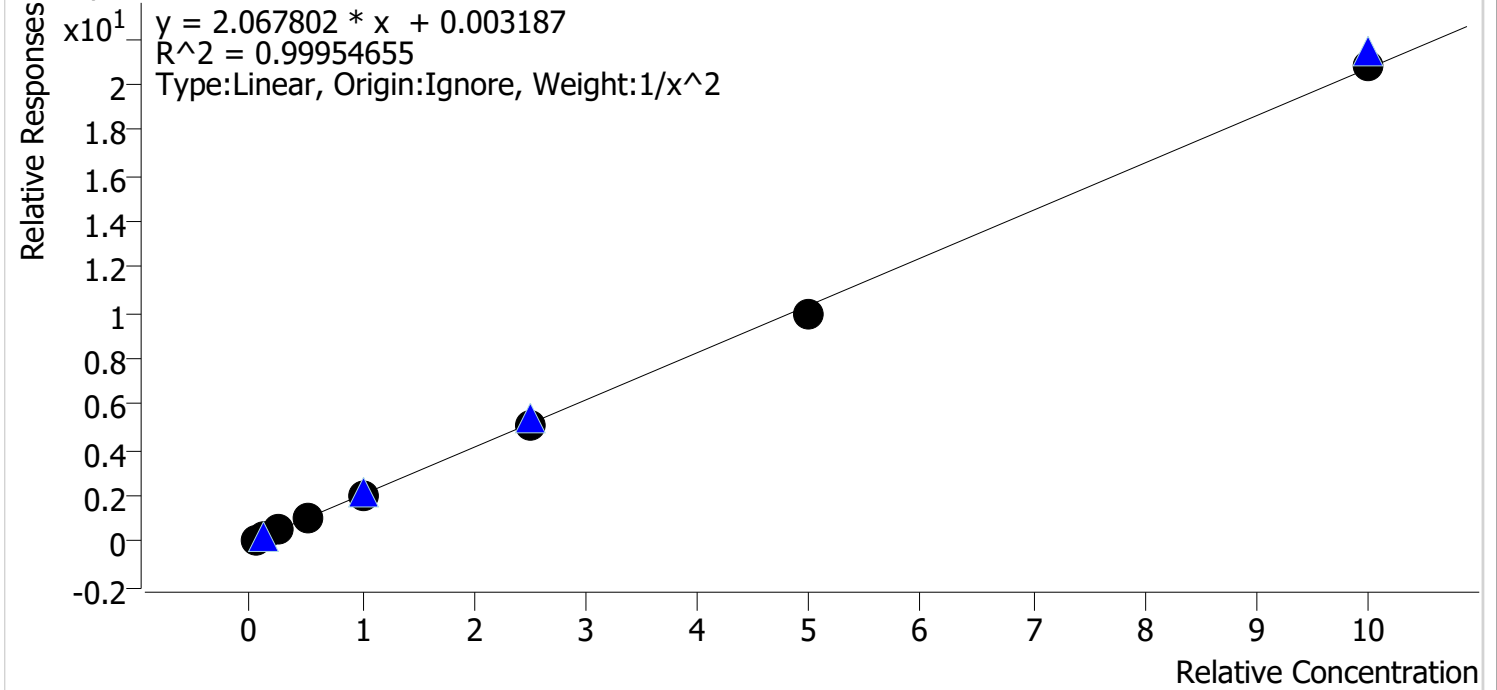
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.5
cal 2	2	✓	10.0	9.8	98.2
cal 3	3	✓	25.0	25.3	101.1
cal 4	4	✓	50.0	50.7	101.5
cal 5	5	✓	100.0	100.6	100.6
cal 6	6	✓	250.0	251.7	100.7
cal 7	7	✓	500.0	497.6	99.5
cal 8	8	✓	1000.0	979.1	97.9

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Carisoprodol

Internal Standard Carisoprodol-D7

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

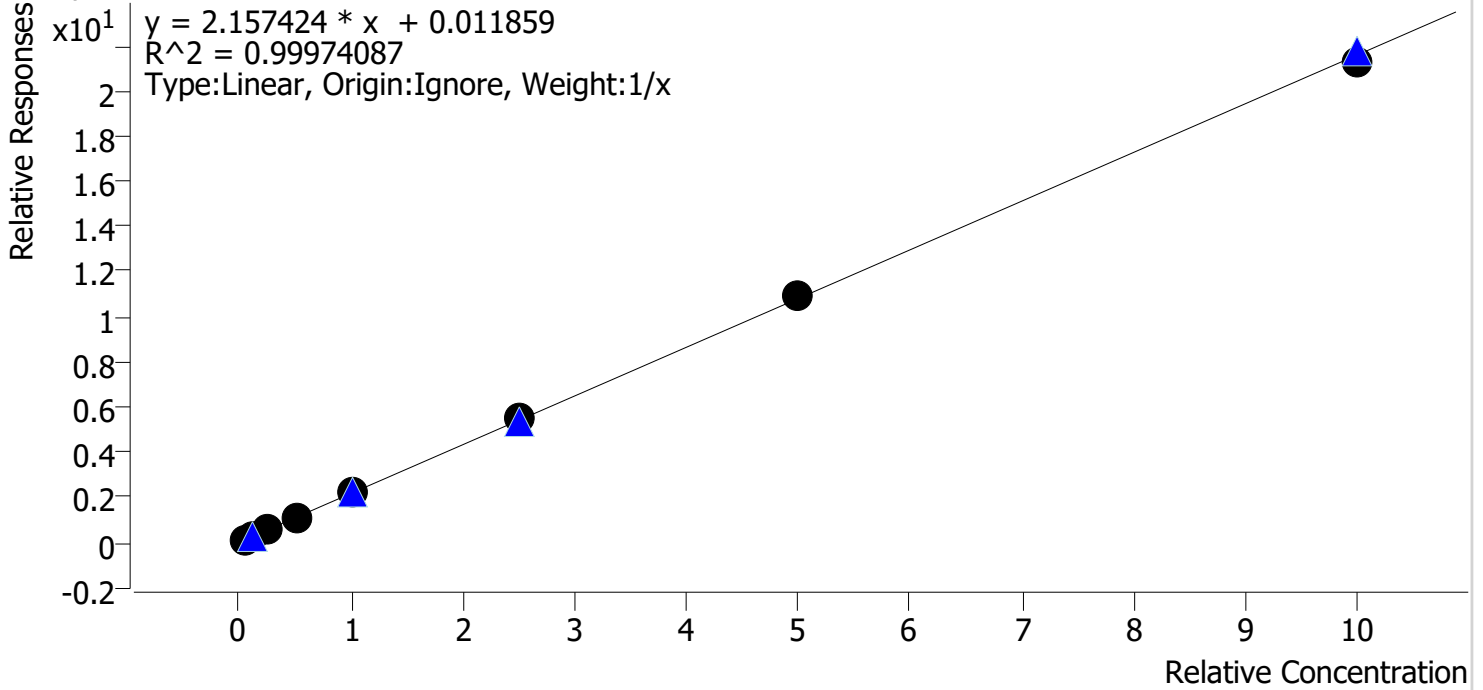


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.7
cal 2	2	✓	10.0	10.1	101.5
cal 3	3	✓	25.0	25.4	101.6
cal 4	4	✓	50.0	51.2	102.3
cal 5	5	✓	100.0	100.2	100.2
cal 6	6	✓	250.0	246.2	98.5
cal 7	7	✓	500.0	484.4	96.9
cal 8	8	✓	1000.0	1002.2	100.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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



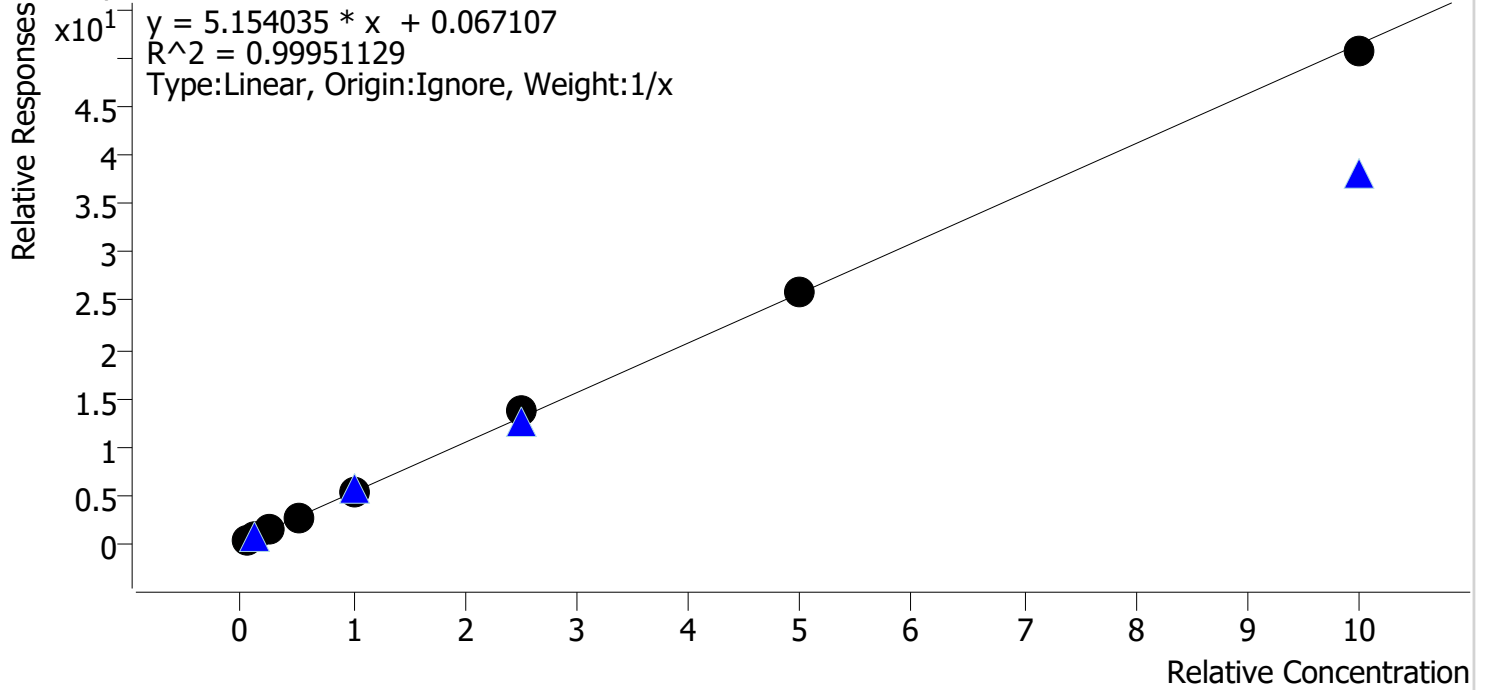
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.1
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	25.0	24.8	99.2
cal 4	4	✓	50.0	50.7	101.5
cal 5	5	✓	100.0	101.7	101.7
cal 6	6	✓	250.0	257.4	103.0
cal 7	7	✓	500.0	503.4	100.7
cal 8	8	✓	1000.0	987.2	98.7

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

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



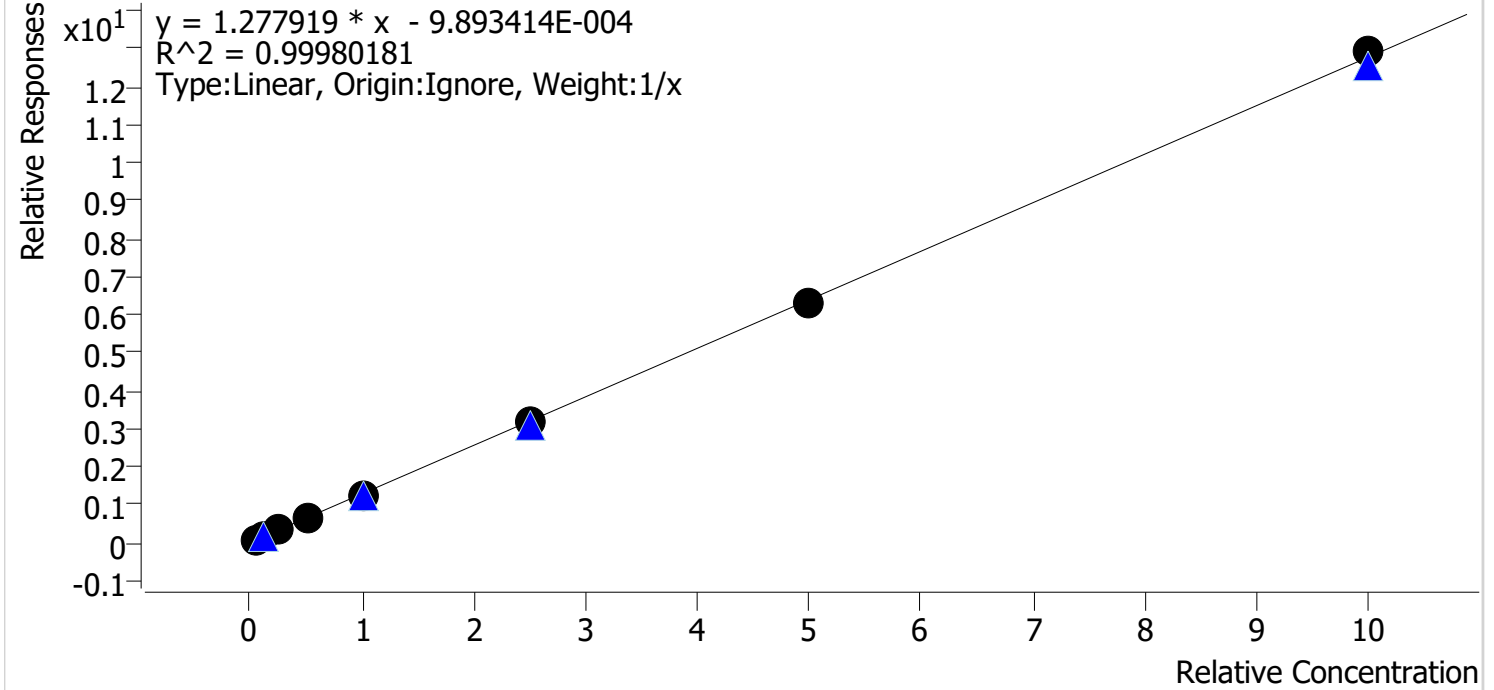
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.7
cal 2	2	✓	10.0	9.7	96.7
cal 3	3	✓	25.0	25.7	102.6
cal 4	4	✓	50.0	50.6	101.2
cal 5	5	✓	100.0	102.6	102.6
cal 6	6	✓	250.0	261.4	104.5
cal 7	7	✓	500.0	500.5	100.1
cal 8	8	✓	1000.0	984.9	98.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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

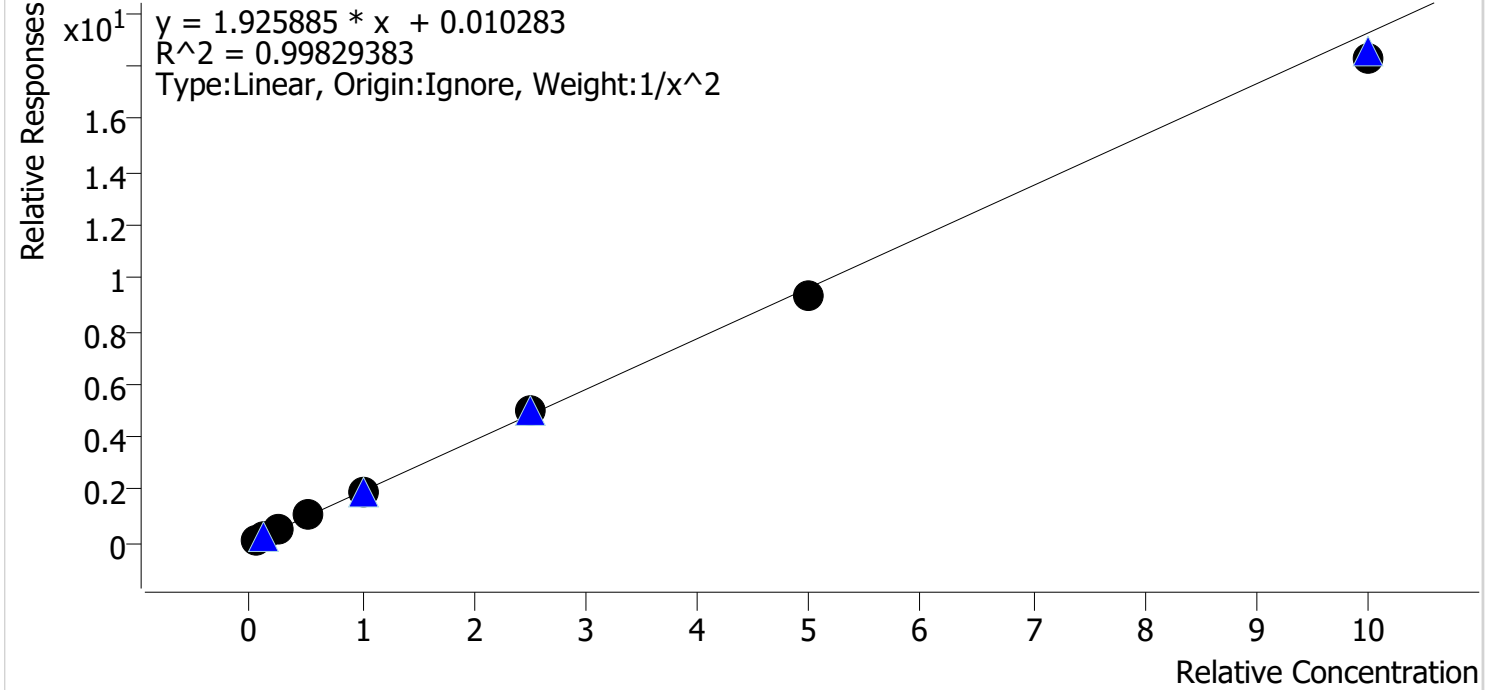


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	104.4
cal 2	2	✓	10.0	10.0	99.9
cal 3	3	✓	25.0	24.7	98.8
cal 4	4	✓	50.0	50.4	100.7
cal 5	5	✓	100.0	97.2	97.2
cal 6	6	✓	250.0	248.5	99.4
cal 7	7	✓	500.0	492.6	98.5
cal 8	8	✓	1000.0	1011.6	101.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

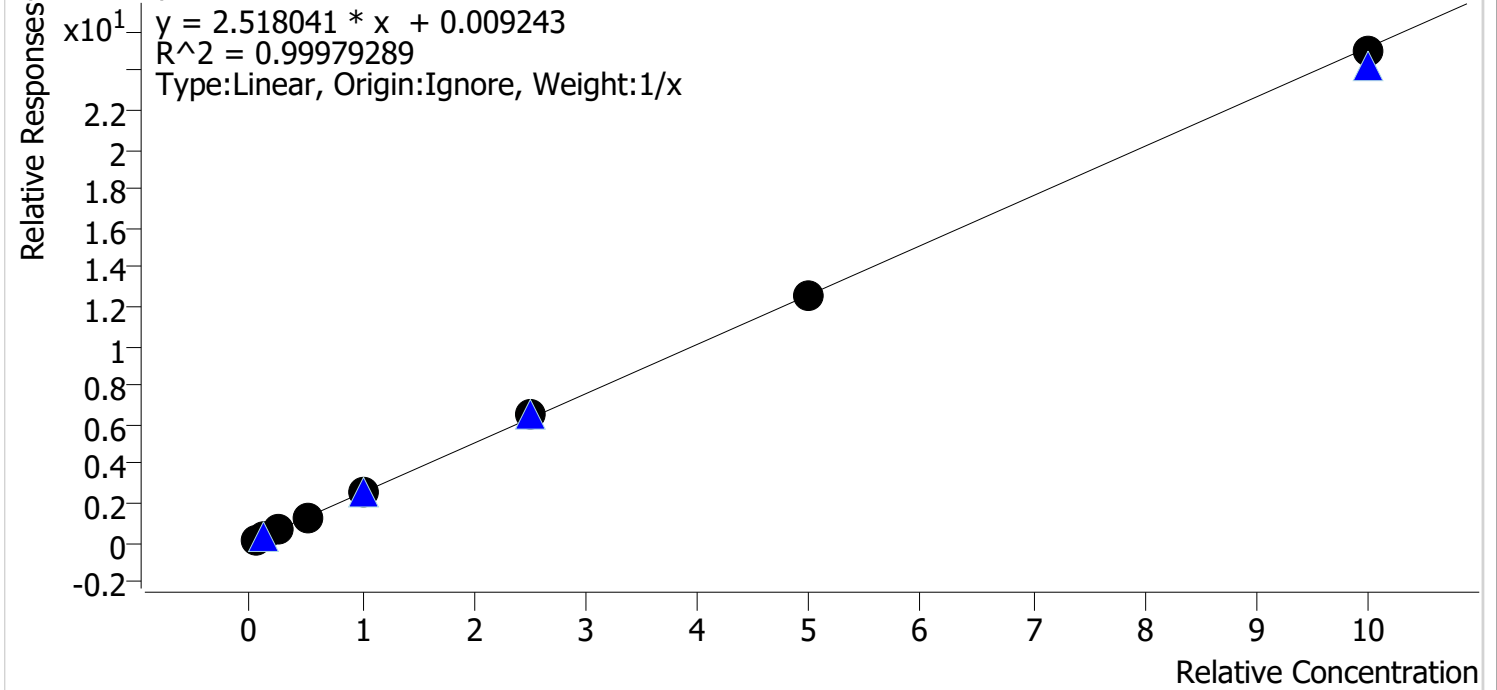
Codeine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.3
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	25.4	101.5
cal 4	4	✓	50.0	52.8	105.5
cal 5	5	✓	100.0	101.2	101.2
cal 6	6	✓	250.0	257.1	102.8
cal 7	7	✓	500.0	481.2	96.2
cal 8	8	✓	1000.0	947.5	94.7

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.9
cal 2	2	✓	10.0	9.7	96.9
cal 3	3	✓	25.0	24.7	99.0
cal 4	4	✓	50.0	51.5	103.0
cal 5	5	✓	100.0	101.3	101.3
cal 6	6	✓	250.0	257.4	103.0
cal 7	7	✓	500.0	498.8	99.8
cal 8	8	✓	1000.0	991.7	99.2

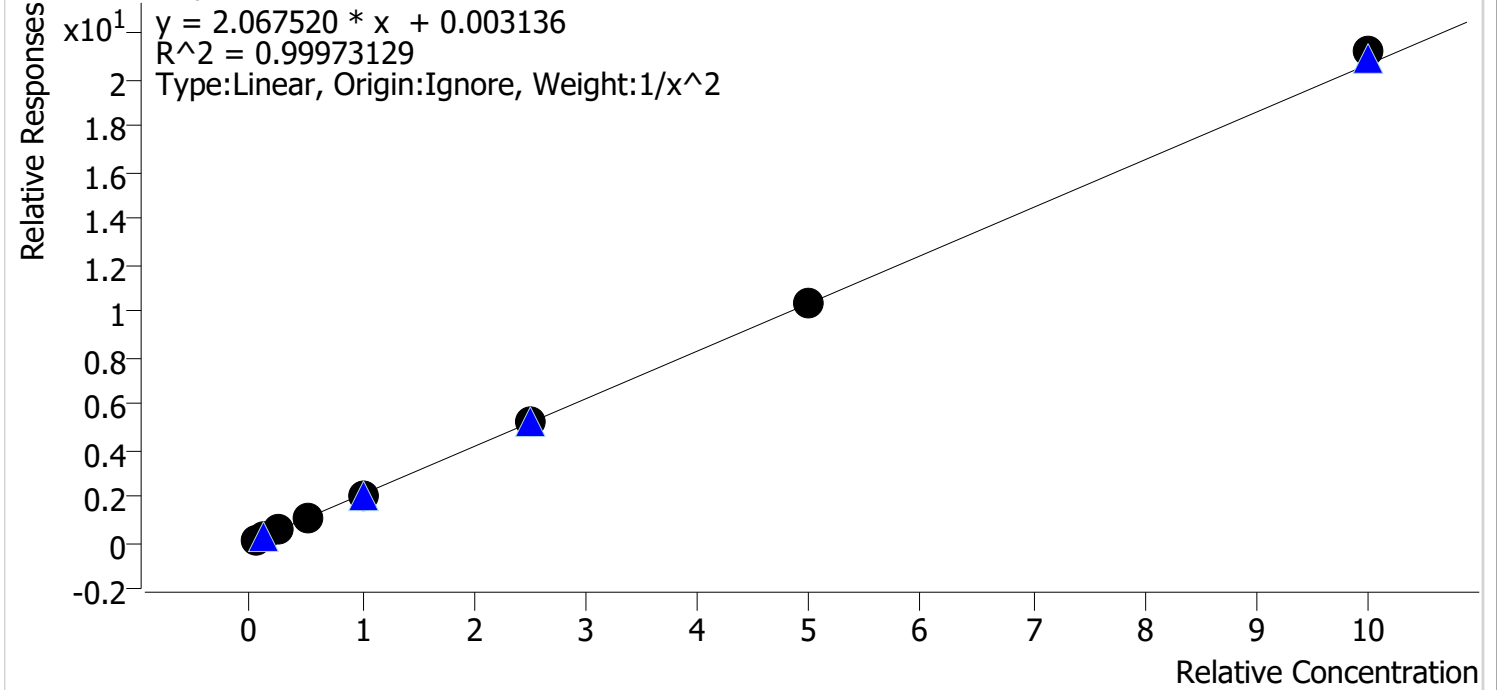
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan

Internal Standard Dextromethorphan-D3

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

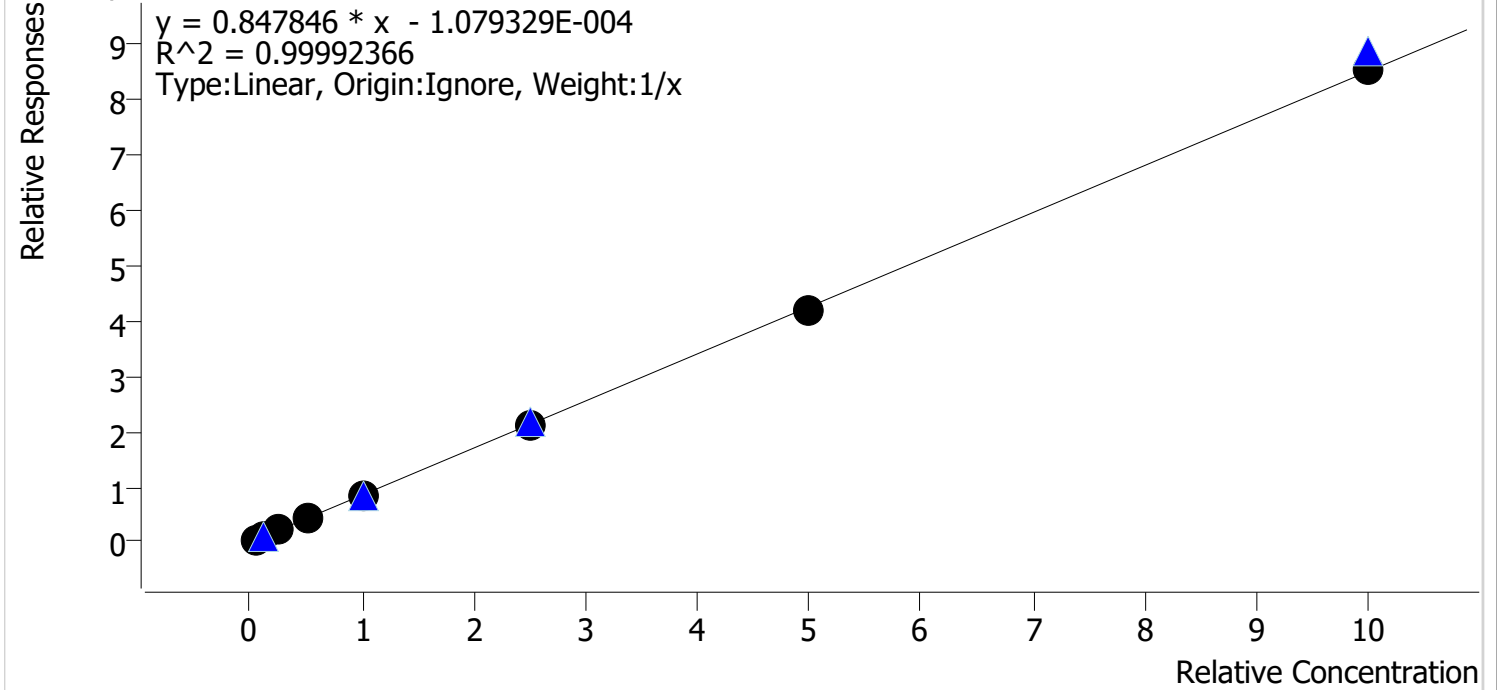


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.5
cal 2	2	✓	10.0	9.9	99.3
cal 3	3	✓	25.0	25.2	100.6
cal 4	4	✓	50.0	49.4	98.8
cal 5	5	✓	100.0	97.9	97.9
cal 6	6	✓	250.0	249.8	99.9
cal 7	7	✓	500.0	501.9	100.4
cal 8	8	✓	1000.0	1026.7	102.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

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



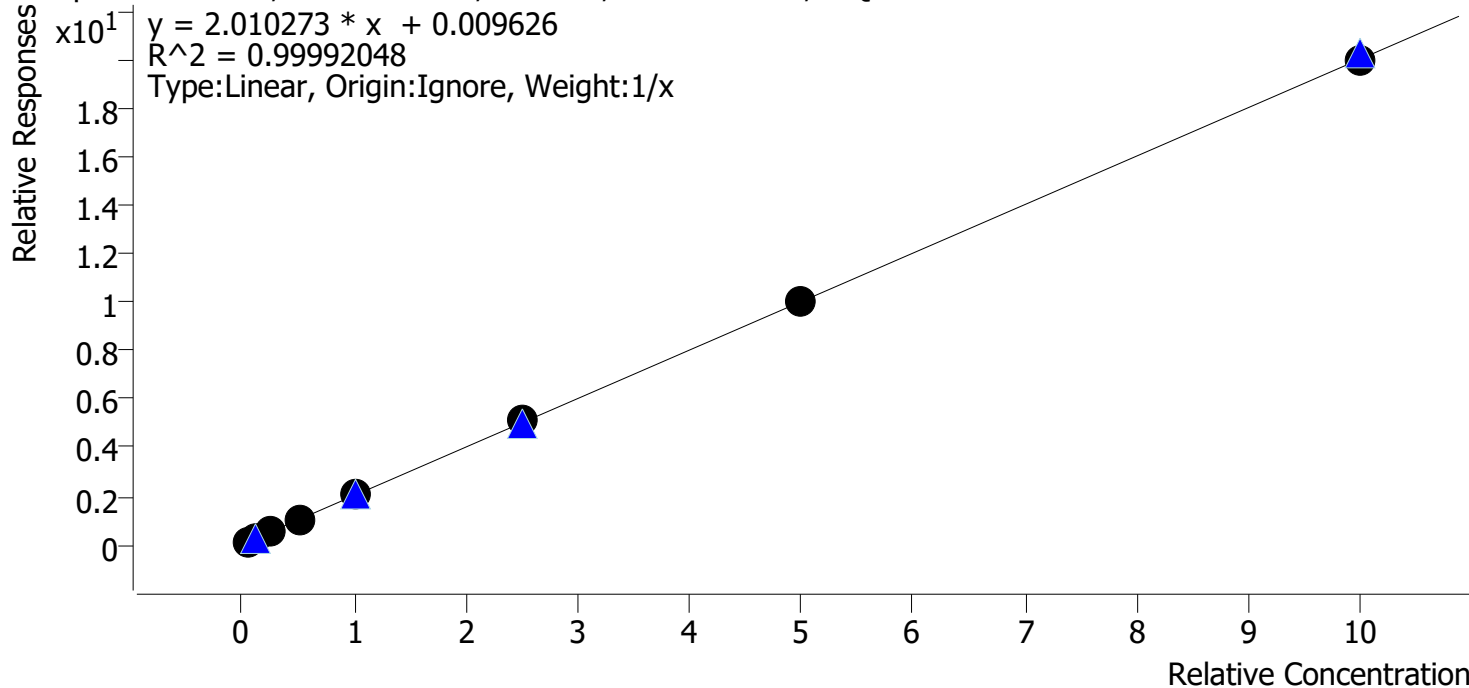
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.8
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	24.8	99.0
cal 4	4	✓	50.0	50.5	101.0
cal 5	5	✓	100.0	99.0	99.0
cal 6	6	✓	250.0	250.1	100.0
cal 7	7	✓	500.0	494.0	98.8
cal 8	8	✓	1000.0	1006.6	100.7



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Diazepam

Internal Standard Diazepam-D5

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



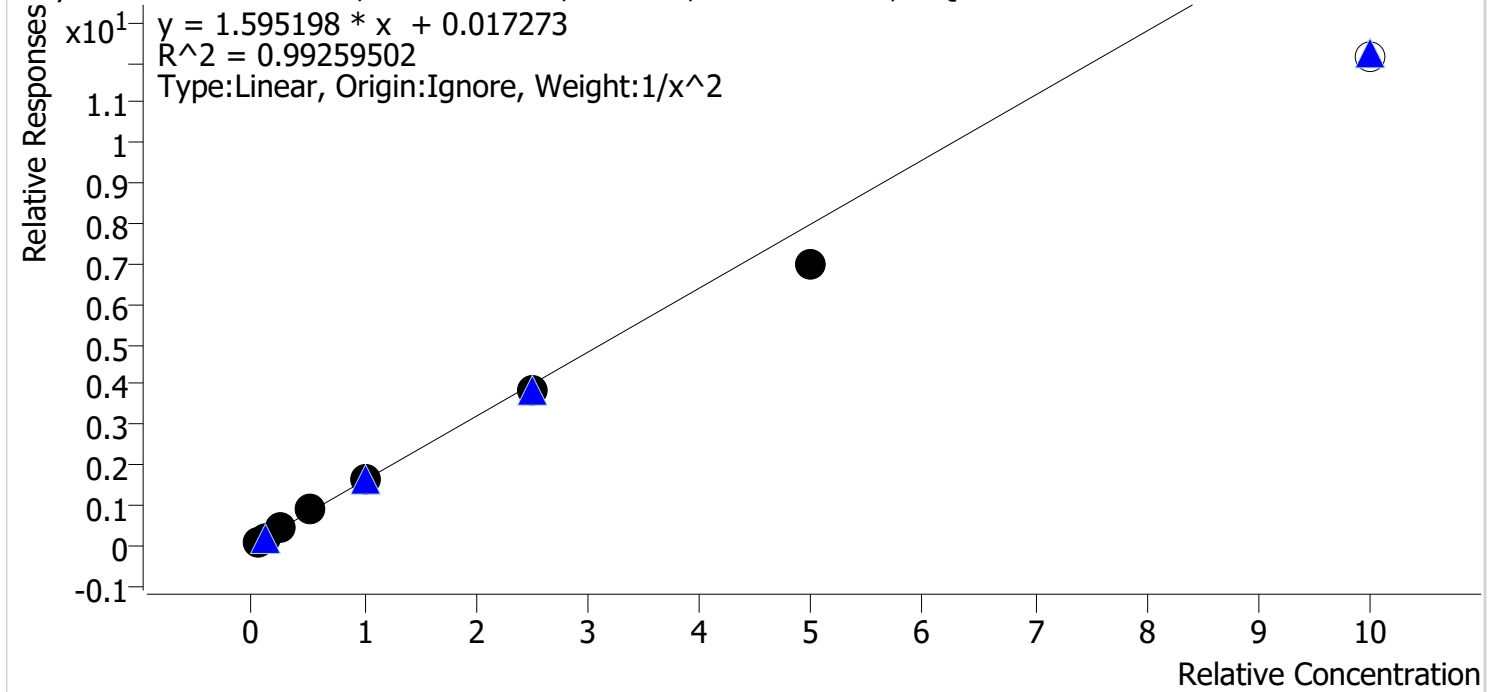
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.7
cal 2	2	✓	10.0	9.9	98.7
cal 3	3	✓	25.0	25.5	101.9
cal 4	4	✓	50.0	50.9	101.7
cal 5	5	✓	100.0	101.1	101.1
cal 6	6	✓	250.0	253.9	101.6
cal 7	7	✓	500.0	499.7	99.9
cal 8	8	✓	1000.0	994.3	99.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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

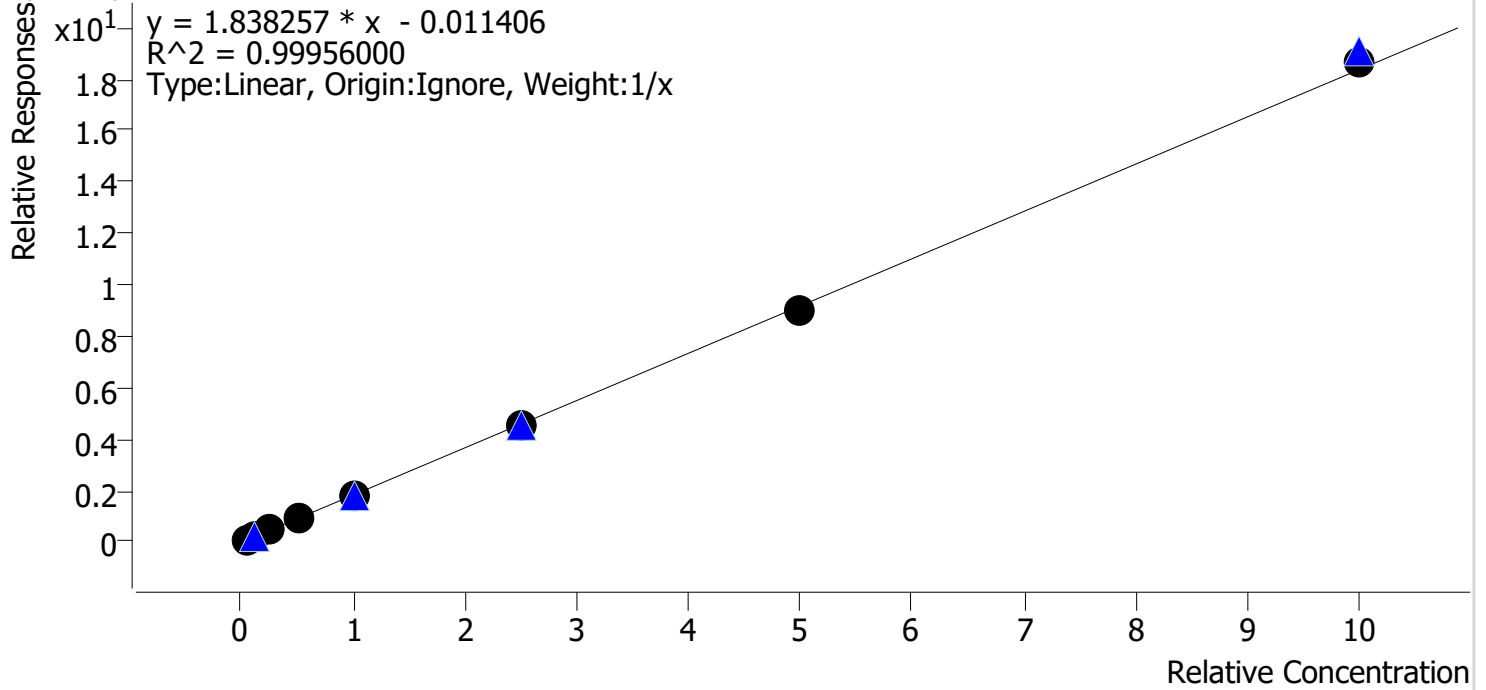


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.8
cal 2	2	✓	10.0	10.3	102.7
cal 3	3	✓	25.0	26.3	105.2
cal 4	4	✓	50.0	54.4	108.7
cal 5	5	✓	100.0	103.6	103.6
cal 6	6	✓	250.0	240.2	96.1
cal 7	7	✓	500.0	434.7	86.9
cal 8	8	x	1000.0	762.6	76.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3

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

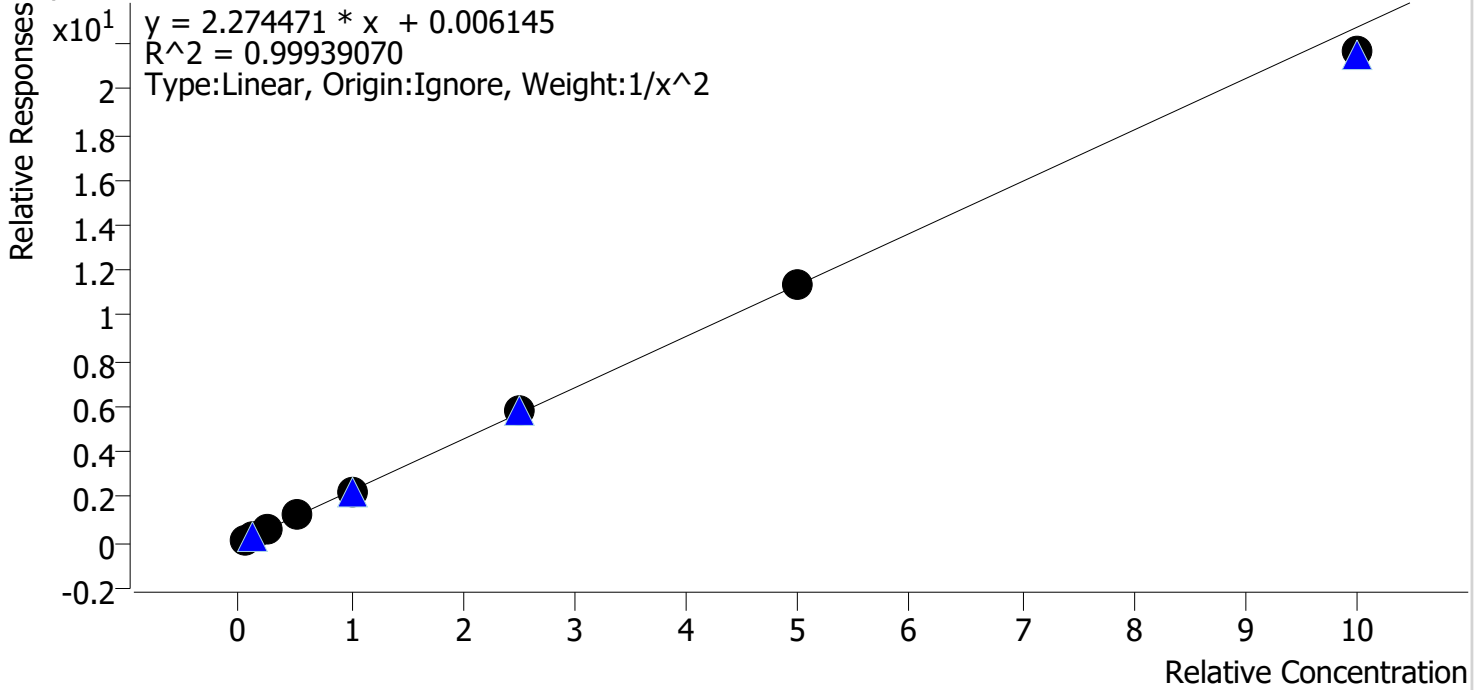


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	110.4
cal 2	2	✓	10.0	10.1	100.6
cal 3	3	✓	25.0	24.3	97.4
cal 4	4	✓	50.0	48.5	97.0
cal 5	5	✓	100.0	96.0	96.0
cal 6	6	✓	250.0	246.5	98.6
cal 7	7	✓	500.0	491.5	98.3
cal 8	8	✓	1000.0	1017.6	101.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

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

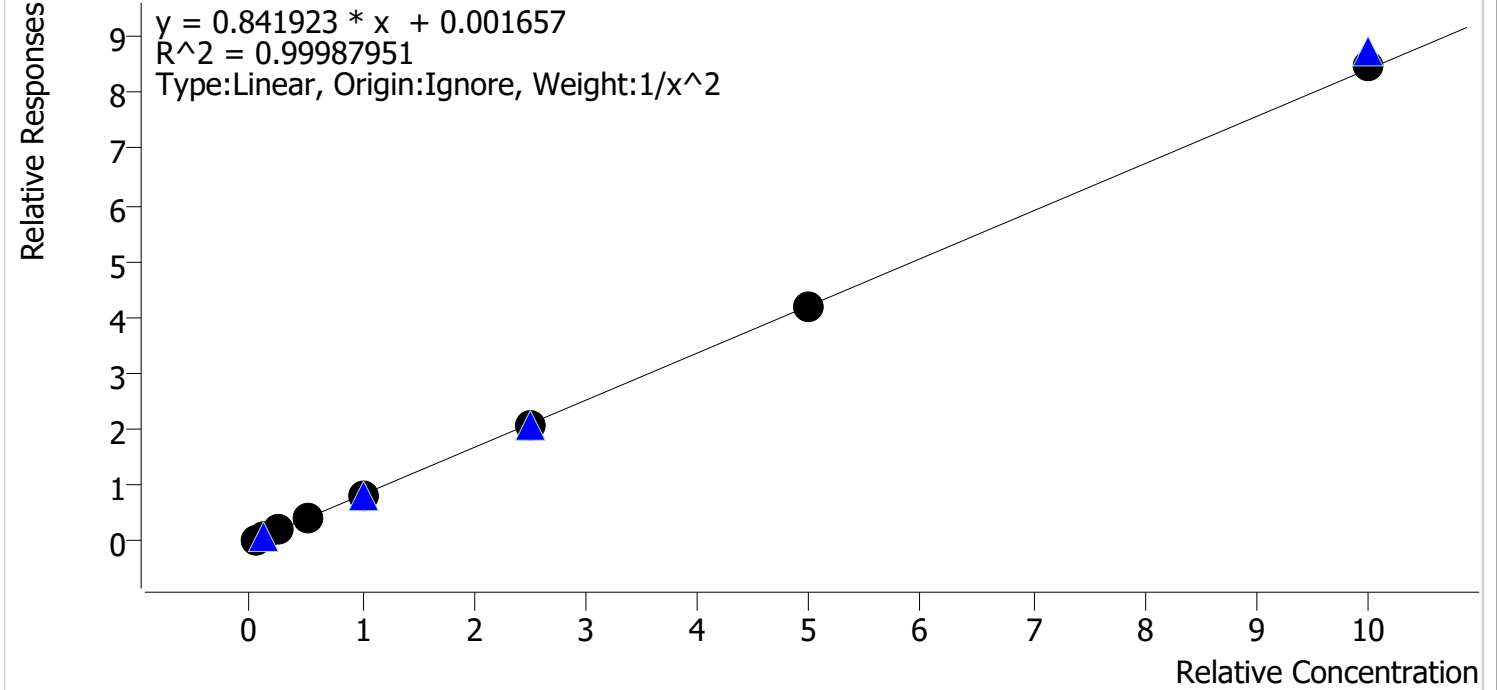


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.0
cal 2	2	✓	10.0	9.9	99.4
cal 3	3	✓	25.0	25.0	99.8
cal 4	4	✓	50.0	51.2	102.4
cal 5	5	✓	100.0	100.9	100.9
cal 6	6	✓	250.0	254.0	101.6
cal 7	7	✓	500.0	503.0	100.6
cal 8	8	✓	1000.0	952.6	95.3

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

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



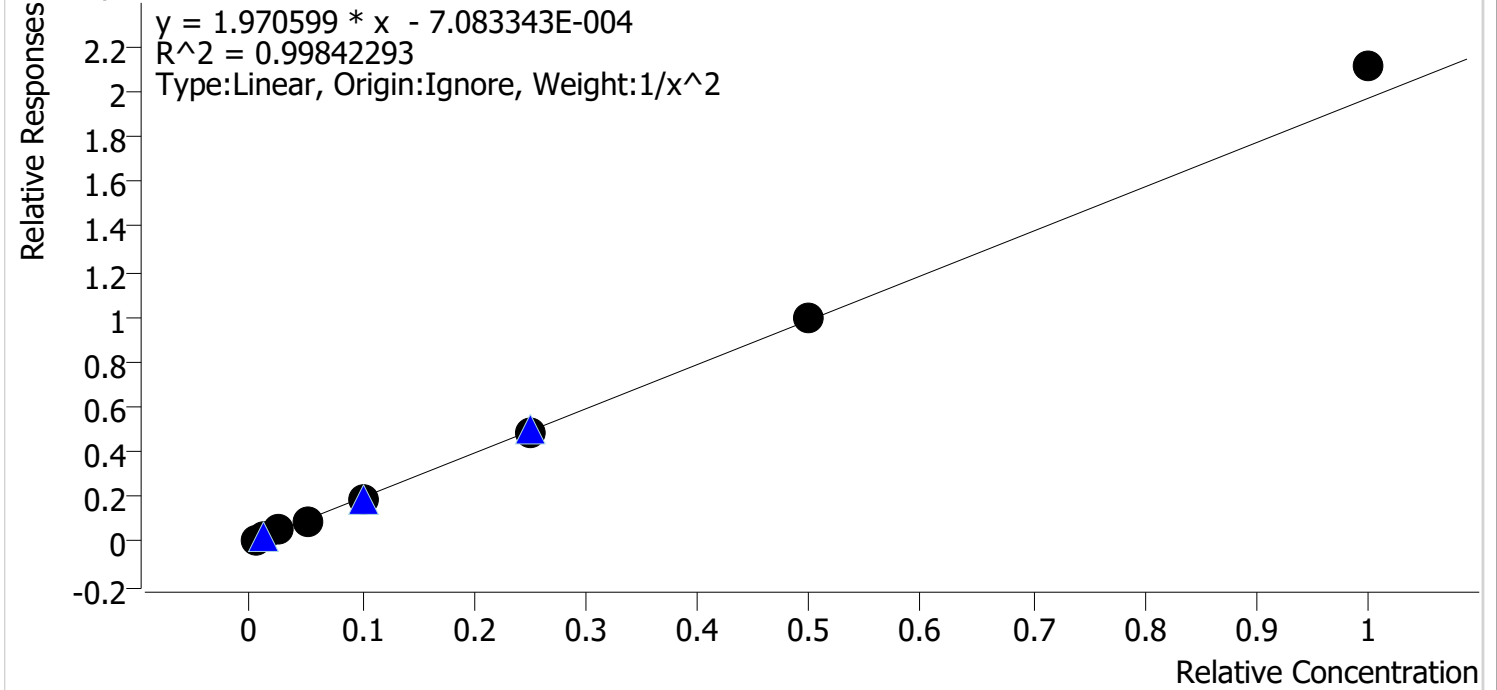
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	10.0	100.0
cal 3	3	✓	25.0	24.7	98.9
cal 4	4	✓	50.0	50.7	101.4
cal 5	5	✓	100.0	98.6	98.6
cal 6	6	✓	250.0	250.5	100.2
cal 7	7	✓	500.0	498.9	99.8
cal 8	8	✓	1000.0	1010.1	101.0

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

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

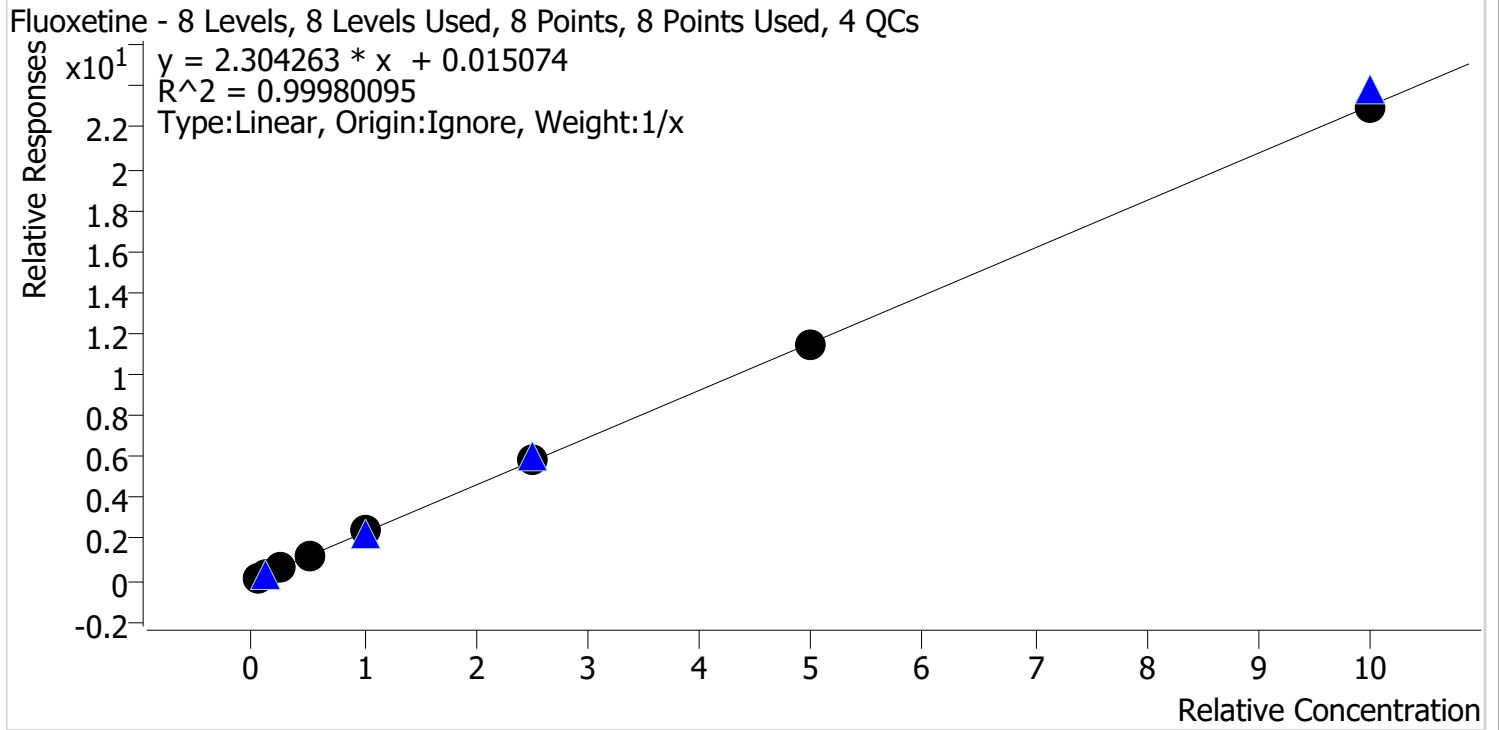


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	100.3
cal 2	2	✓	1.0	1.0	100.9
cal 3	3	✓	2.5	2.5	98.6
cal 4	4	✓	5.0	4.9	97.3
cal 5	5	✓	10.0	9.6	96.5
cal 6	6	✓	25.0	24.5	98.1
cal 7	7	✓	50.0	50.4	100.8
cal 8	8	✓	100.0	107.5	107.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6



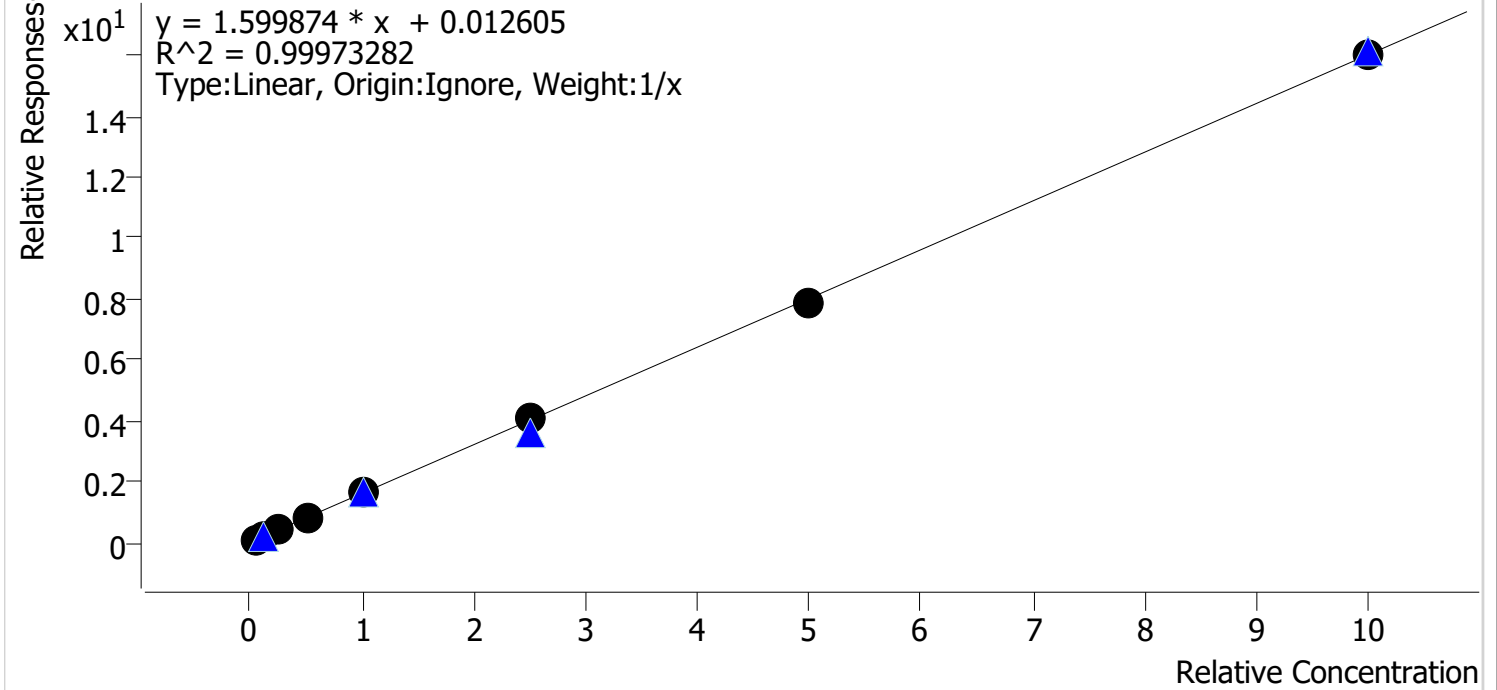
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.1
cal 2	2	✓	10.0	9.9	98.9
cal 3	3	✓	25.0	25.3	101.3
cal 4	4	✓	50.0	51.8	103.7
cal 5	5	✓	100.0	102.0	102.0
cal 6	6	✓	250.0	256.1	102.4
cal 7	7	✓	500.0	496.1	99.2
cal 8	8	✓	1000.0	994.0	99.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Hydrocodone

Internal Standard Hydrocodone-D6

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

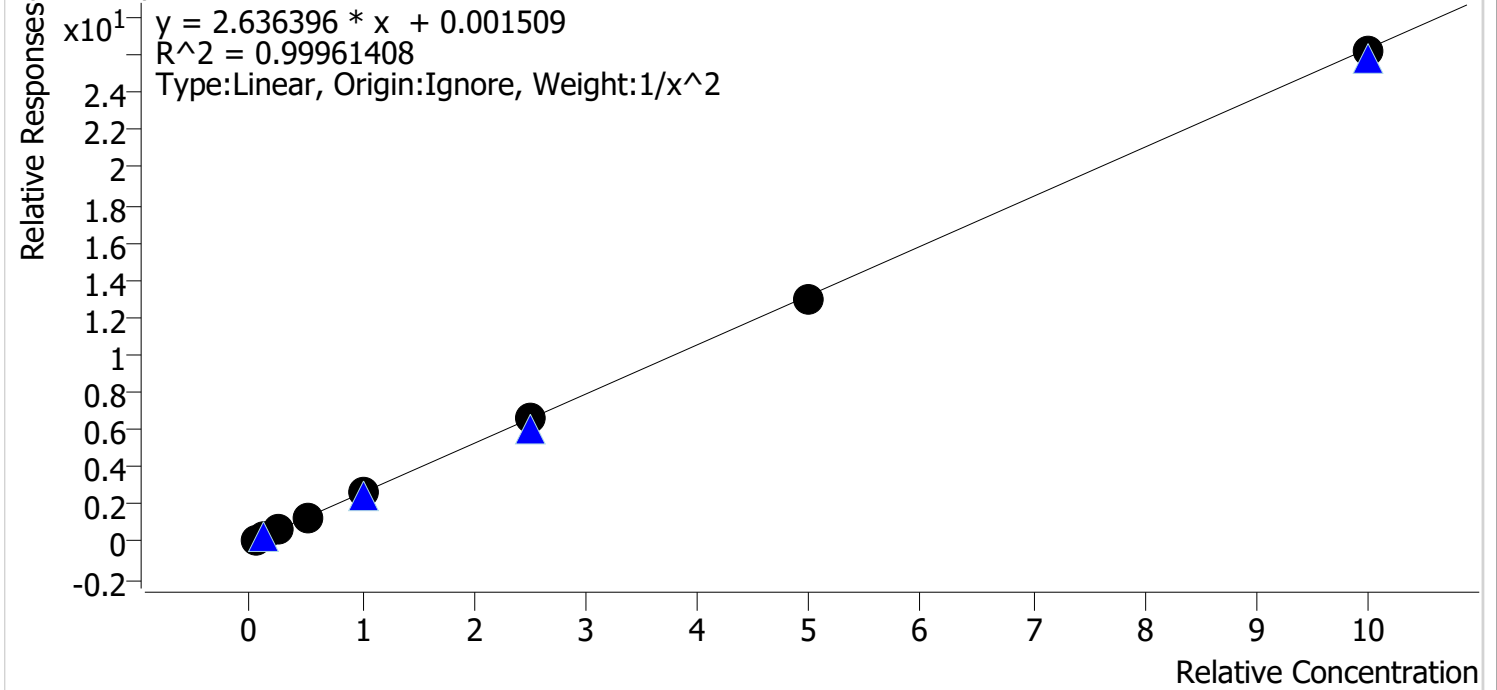


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	94.5
cal 2	2	✓	10.0	9.7	97.1
cal 3	3	✓	25.0	25.4	101.8
cal 4	4	✓	50.0	52.5	105.0
cal 5	5	✓	100.0	101.8	101.8
cal 6	6	✓	250.0	254.0	101.6
cal 7	7	✓	500.0	489.7	97.9
cal 8	8	✓	1000.0	1002.1	100.2

Compound Calibration Report

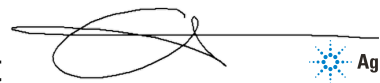
Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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

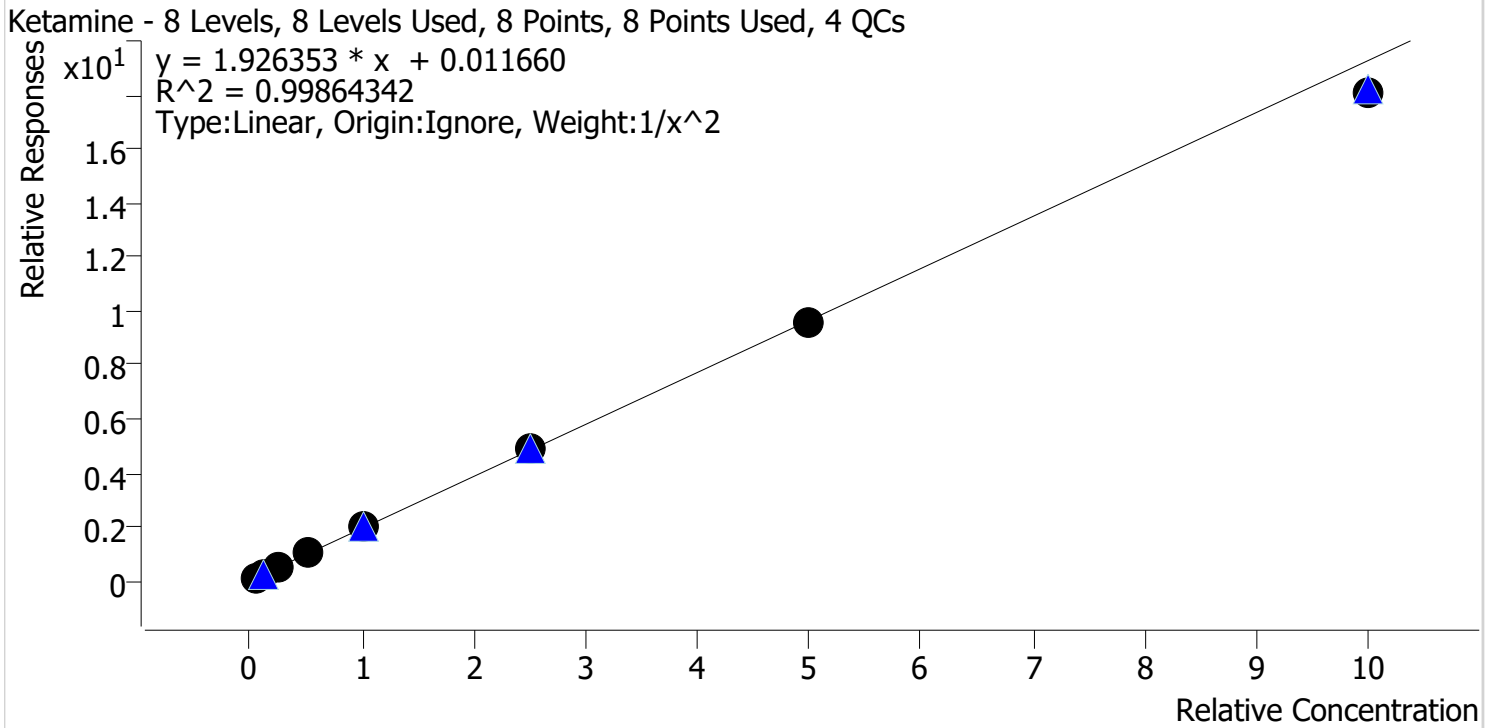


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.4
cal 2	2	✓	10.0	10.3	103.3
cal 3	3	✓	25.0	24.7	98.8
cal 4	4	✓	50.0	50.8	101.7
cal 5	5	✓	100.0	100.2	100.2
cal 6	6	✓	250.0	249.3	99.7
cal 7	7	✓	500.0	492.4	98.5
cal 8	8	✓	1000.0	993.9	99.4

Compound Calibration Report

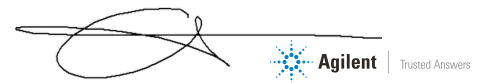


Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4



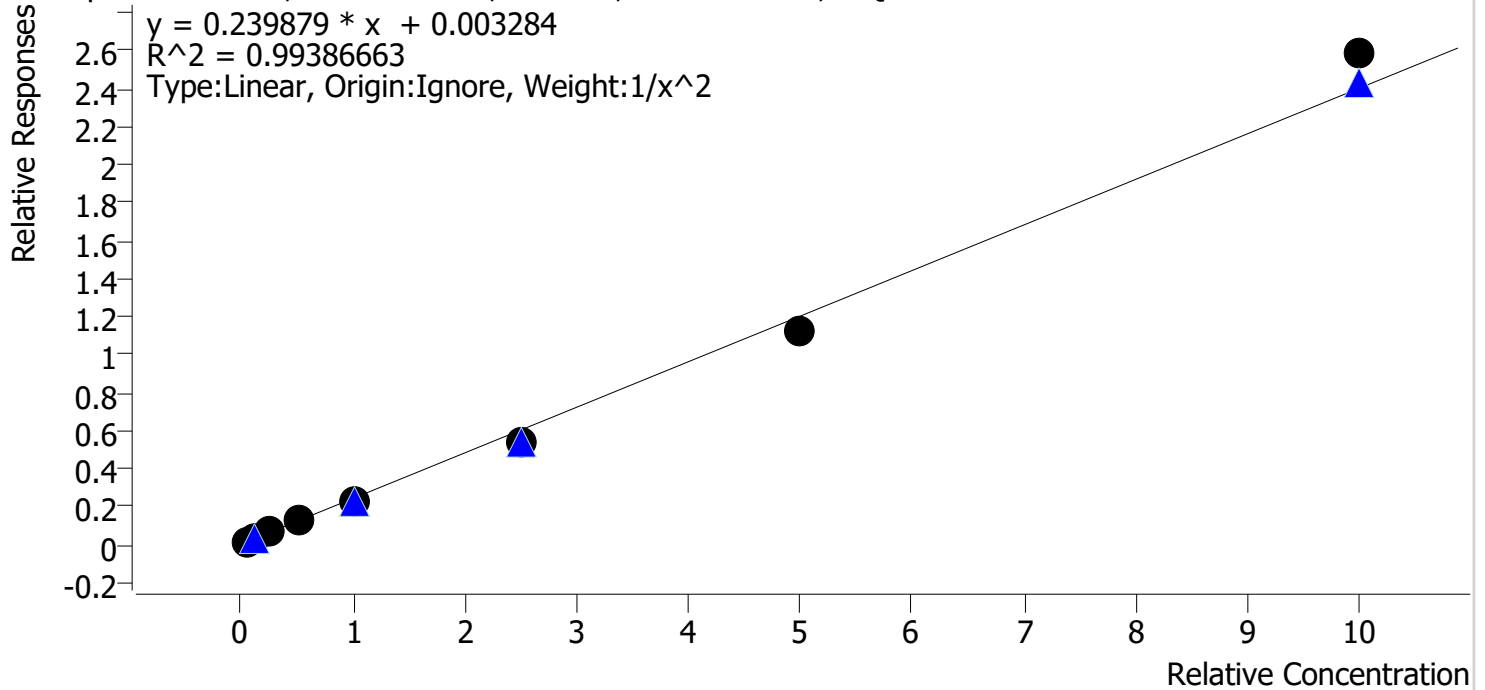
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.2
cal 2	2	✓	10.0	10.0	100.2
cal 3	3	✓	25.0	25.3	101.1
cal 4	4	✓	50.0	52.0	104.0
cal 5	5	✓	100.0	103.0	103.0
cal 6	6	✓	250.0	251.0	100.4
cal 7	7	✓	500.0	493.3	98.7
cal 8	8	✓	1000.0	934.6	93.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
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	4.9	97.1
cal 2	2	✓	10.0	10.2	102.3
cal 3	3	✓	25.0	27.1	108.4
cal 4	4	✓	50.0	52.5	105.0
cal 5	5	✓	100.0	95.8	95.8
cal 6	6	✓	250.0	224.6	89.8
cal 7	7	✓	500.0	469.5	93.9
cal 8	8	✓	1000.0	1076.1	107.6

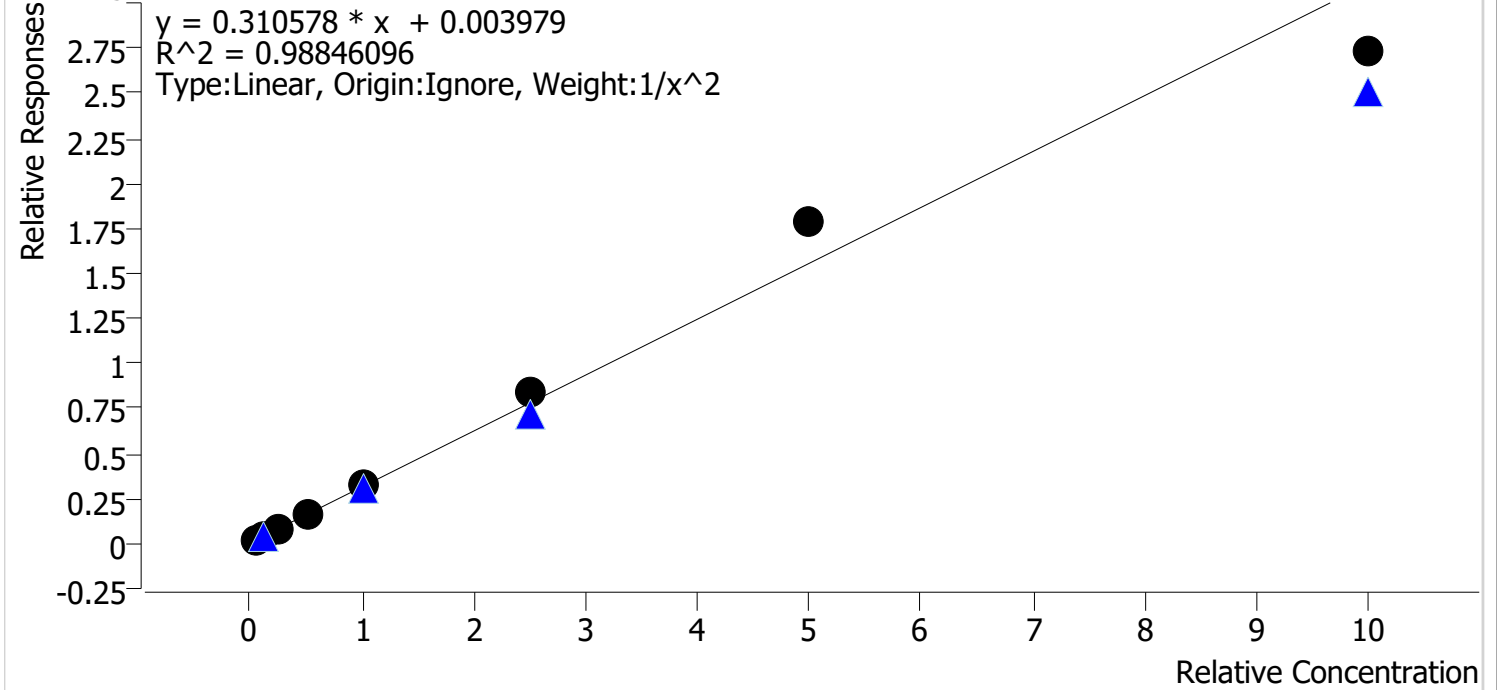
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Lamotrigine

Internal Standard Dextromethorphan-D3

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



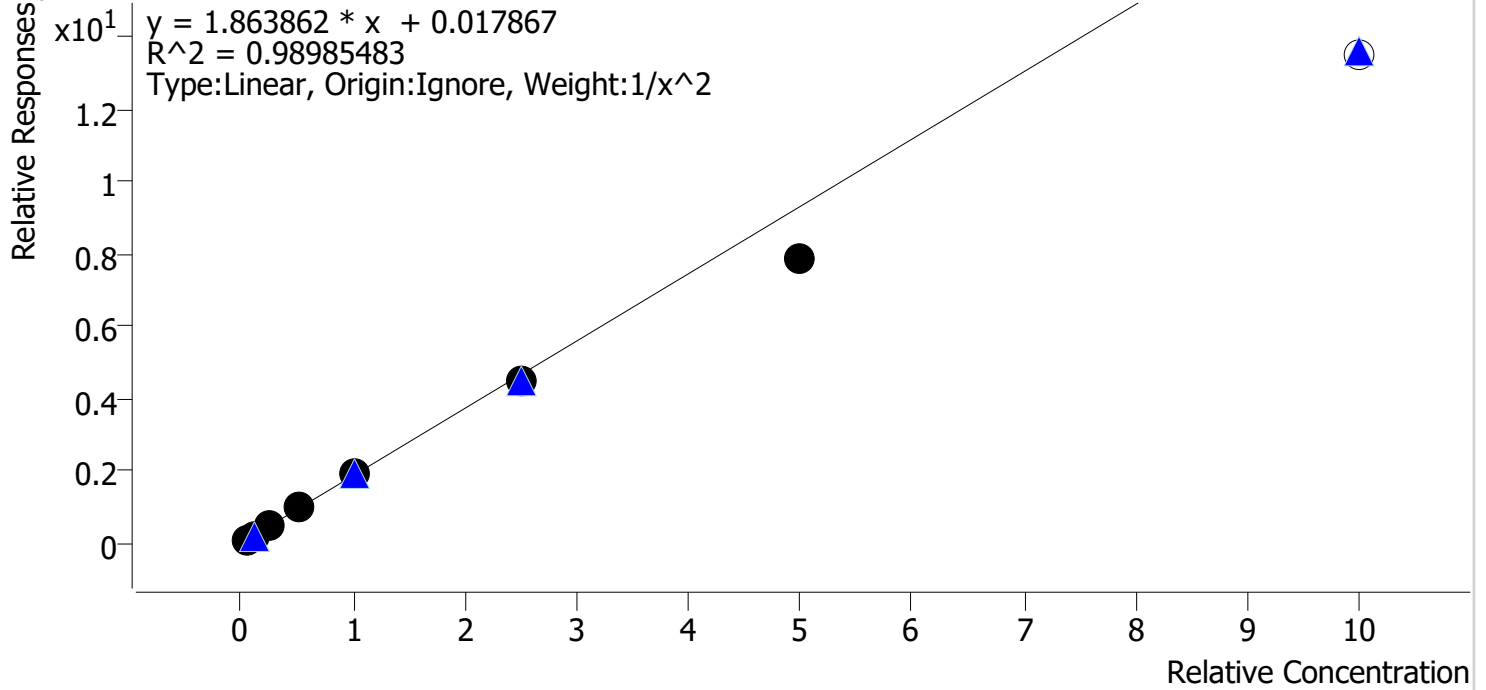
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.3	105.5
cal 2	2	✓	10.0	9.2	92.1
cal 3	3	✓	25.0	23.0	92.0
cal 4	4	✓	50.0	48.5	97.1
cal 5	5	✓	100.0	102.1	102.1
cal 6	6	✓	250.0	270.3	108.1
cal 7	7	✓	500.0	576.5	115.3
cal 8	8	✓	1000.0	878.8	87.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

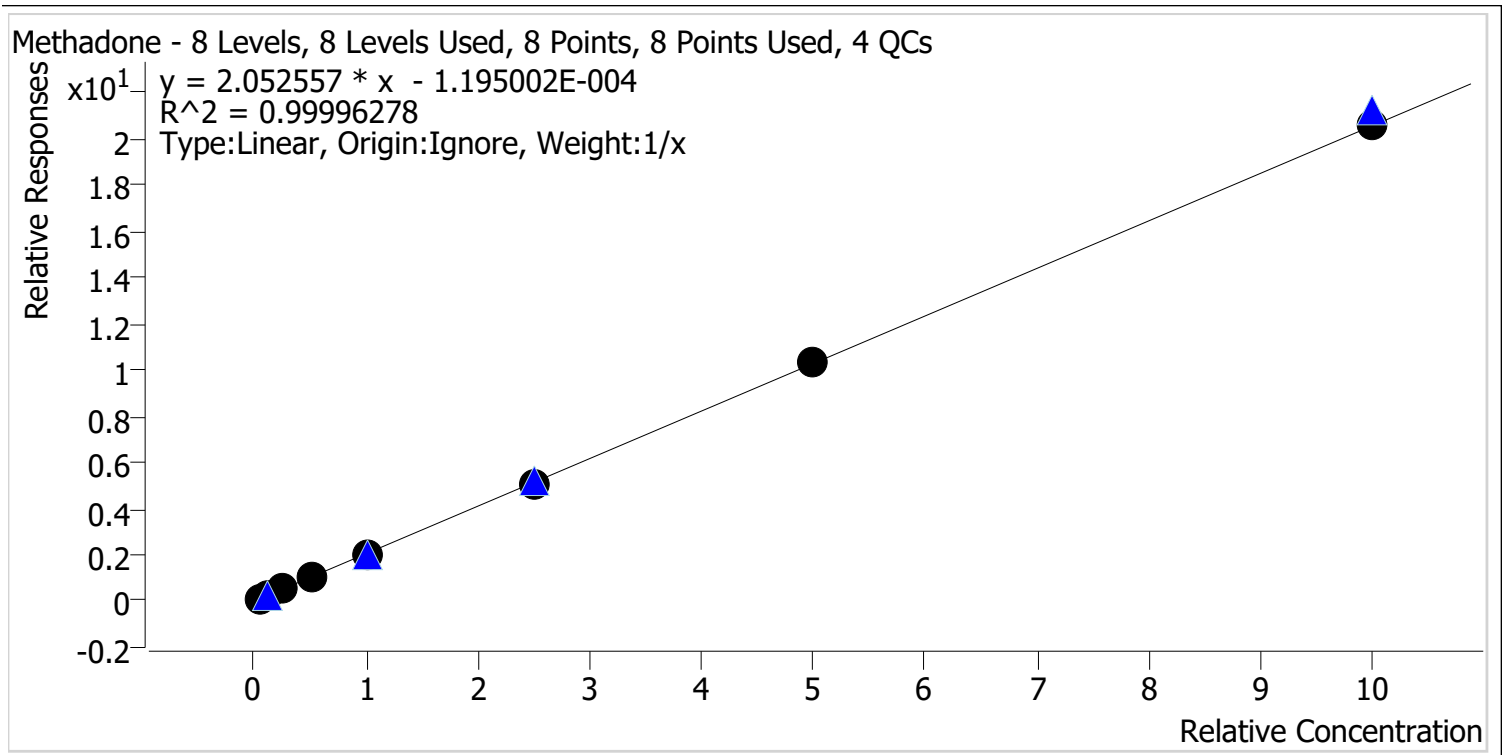
Meprobamate - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.4
cal 2	2	✓	10.0	10.5	104.5
cal 3	3	✓	25.0	27.0	108.0
cal 4	4	✓	50.0	54.3	108.5
cal 5	5	✓	100.0	102.4	102.4
cal 6	6	✓	250.0	241.9	96.8
cal 7	7	✓	500.0	421.8	84.4
cal 8	8	x	1000.0	724.1	72.4



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9



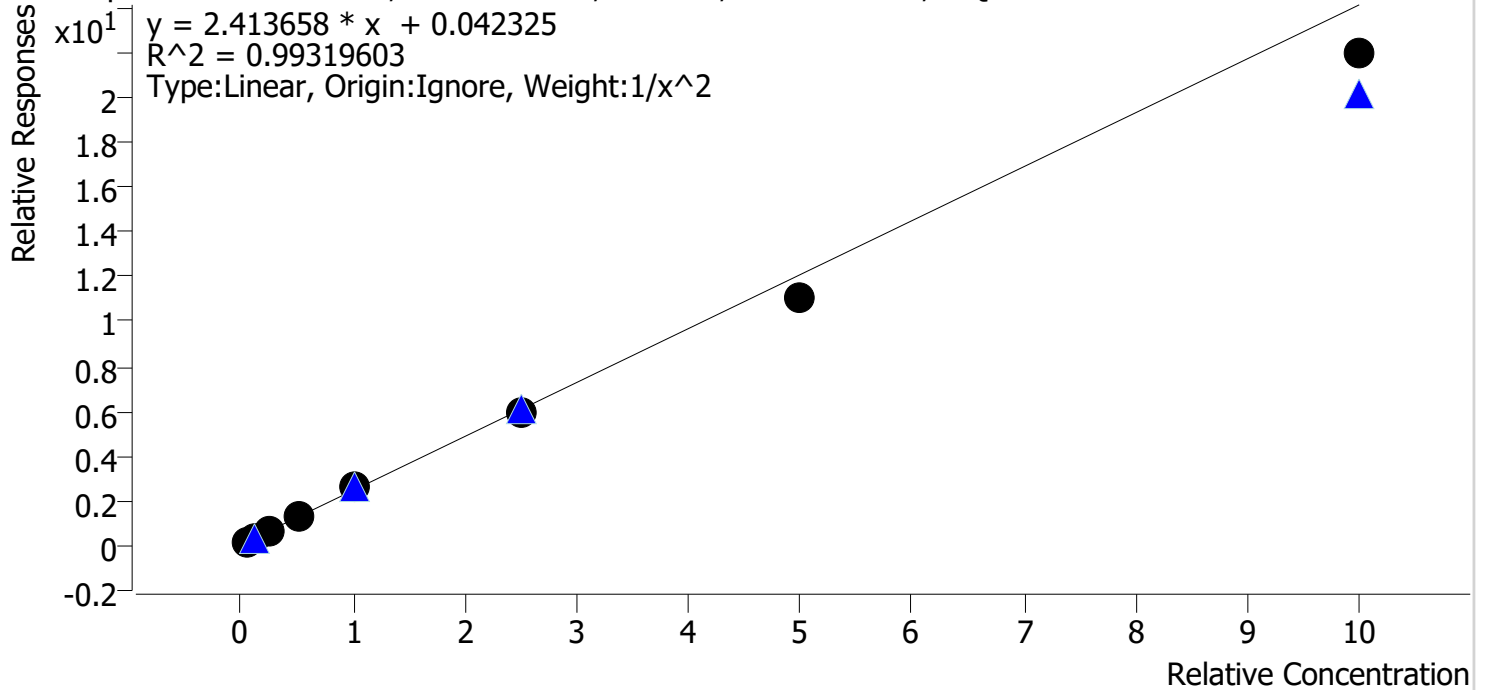
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.2
cal 2	2	✓	10.0	10.0	99.7
cal 3	3	✓	25.0	25.0	99.9
cal 4	4	✓	50.0	49.7	99.4
cal 5	5	✓	100.0	98.0	98.0
cal 6	6	✓	250.0	248.6	99.4
cal 7	7	✓	500.0	500.1	100.0
cal 8	8	✓	1000.0	1003.5	100.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

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



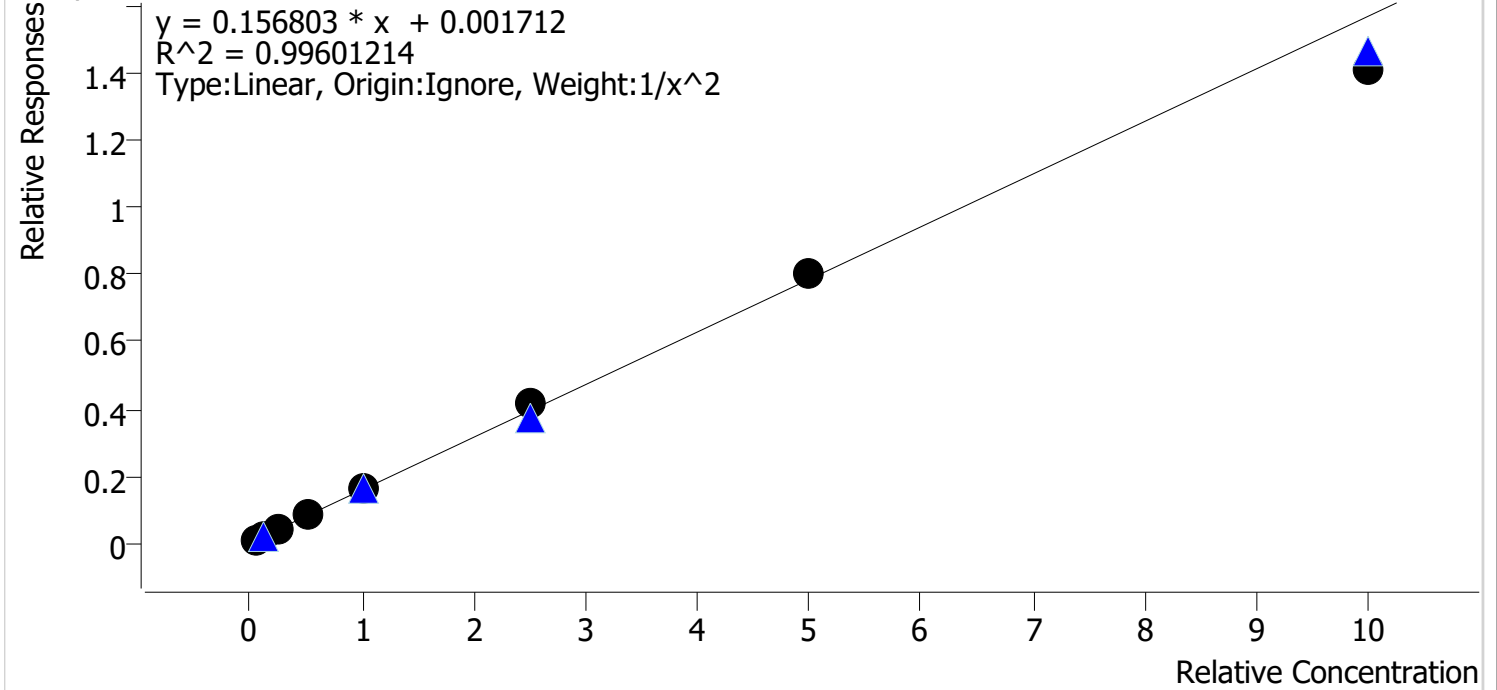
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.8
cal 2	2	✓	10.0	10.3	103.3
cal 3	3	✓	25.0	26.9	107.5
cal 4	4	✓	50.0	55.0	110.0
cal 5	5	✓	100.0	103.5	103.5
cal 6	6	✓	250.0	244.3	97.7
cal 7	7	✓	500.0	455.9	91.2
cal 8	8	✓	1000.0	909.6	91.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Metoprolol

Internal Standard Diphenhydramine-D3

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



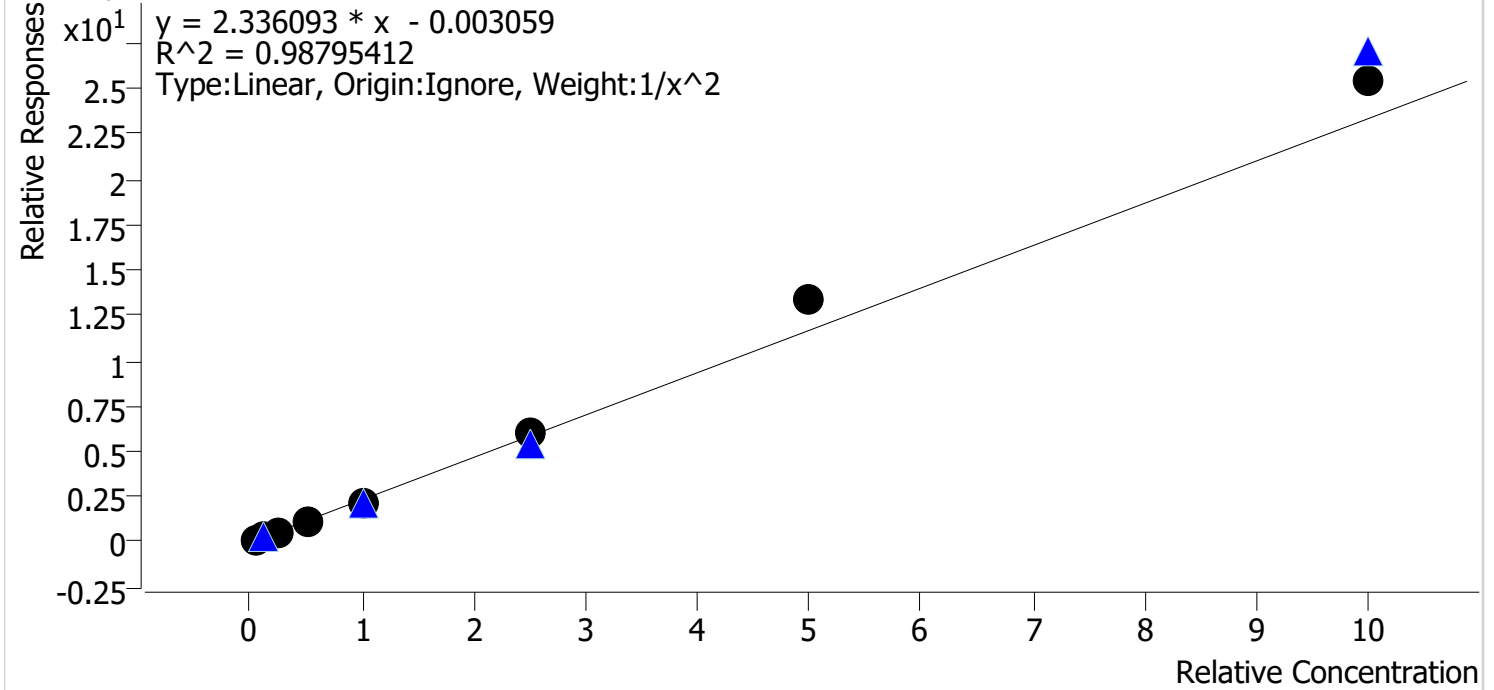
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.5
cal 2	2	✓	10.0	9.8	98.0
cal 3	3	✓	25.0	23.6	94.3
cal 4	4	✓	50.0	51.3	102.6
cal 5	5	✓	100.0	105.4	105.4
cal 6	6	✓	250.0	263.2	105.3
cal 7	7	✓	500.0	514.1	102.8
cal 8	8	✓	1000.0	899.9	90.0

Compound Calibration Report

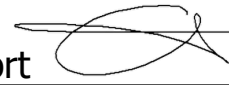


Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** Methadone-D9

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



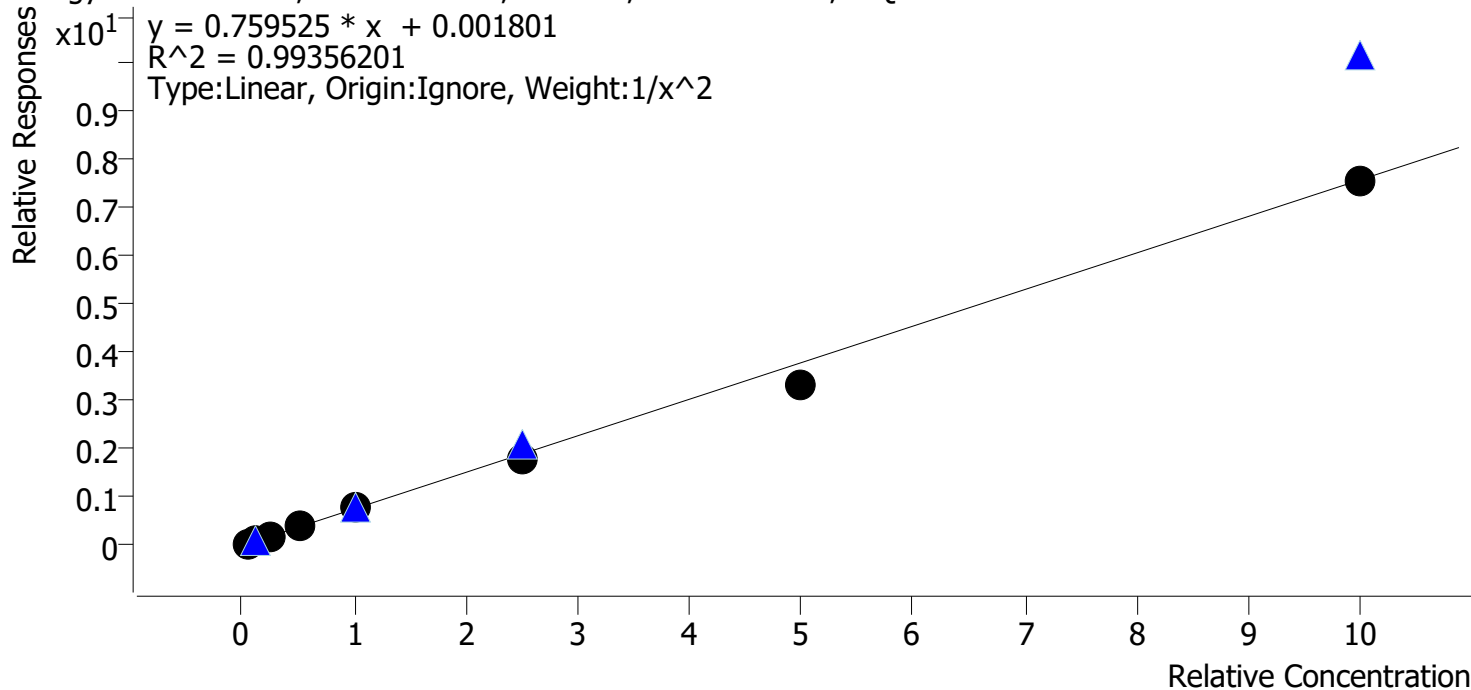
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	107.2
cal 2	2	✓	10.0	9.2	92.0
cal 3	3	✓	25.0	21.9	87.7
cal 4	4	✓	50.0	46.5	93.0
cal 5	5	✓	100.0	93.9	93.9
cal 6	6	✓	250.0	258.5	103.4
cal 7	7	✓	500.0	571.5	114.3
cal 8	8	✓	1000.0	1085.6	108.6



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Mitragynine

Internal Standard Dextromethorphan-D3

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

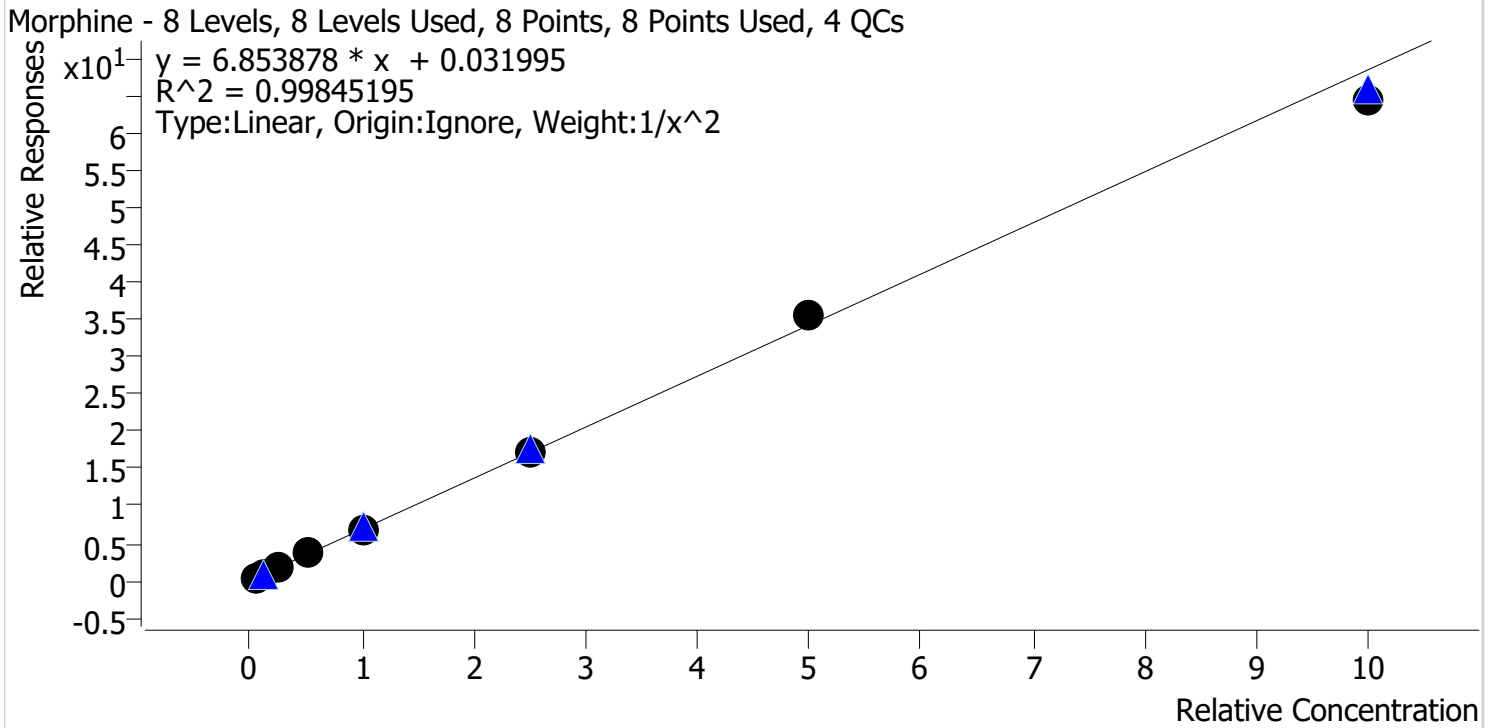


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	95.6
cal 2	2	✓	10.0	10.5	104.6
cal 3	3	✓	25.0	26.8	107.3
cal 4	4	✓	50.0	53.3	106.6
cal 5	5	✓	100.0	103.8	103.8
cal 6	6	✓	250.0	238.0	95.2
cal 7	7	✓	500.0	435.3	87.1
cal 8	8	✓	1000.0	998.5	99.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6



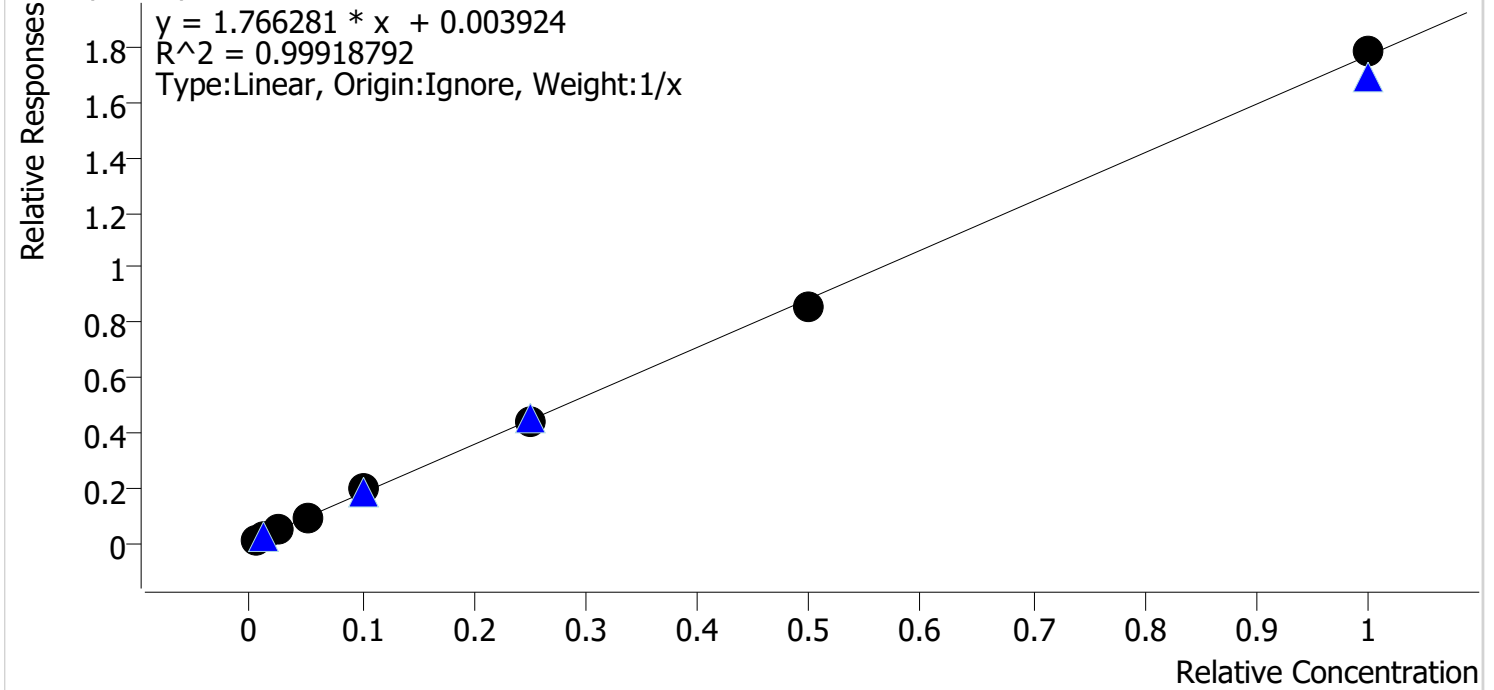
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	9.9	99.5
cal 3	3	✓	25.0	24.5	98.1
cal 4	4	✓	50.0	52.3	104.6
cal 5	5	✓	100.0	98.3	98.3
cal 6	6	✓	250.0	252.5	101.0
cal 7	7	✓	500.0	520.8	104.2
cal 8	8	✓	1000.0	940.4	94.0

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 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	0.4	82.7
cal 2	2	✓	1.0	1.1	109.1
cal 3	3	✓	2.5	2.6	105.1
cal 4	4	✓	5.0	4.9	98.1
cal 5	5	✓	10.0	10.8	107.8
cal 6	6	✓	25.0	24.8	99.4
cal 7	7	✓	50.0	48.5	97.0
cal 8	8	✓	100.0	100.8	100.8

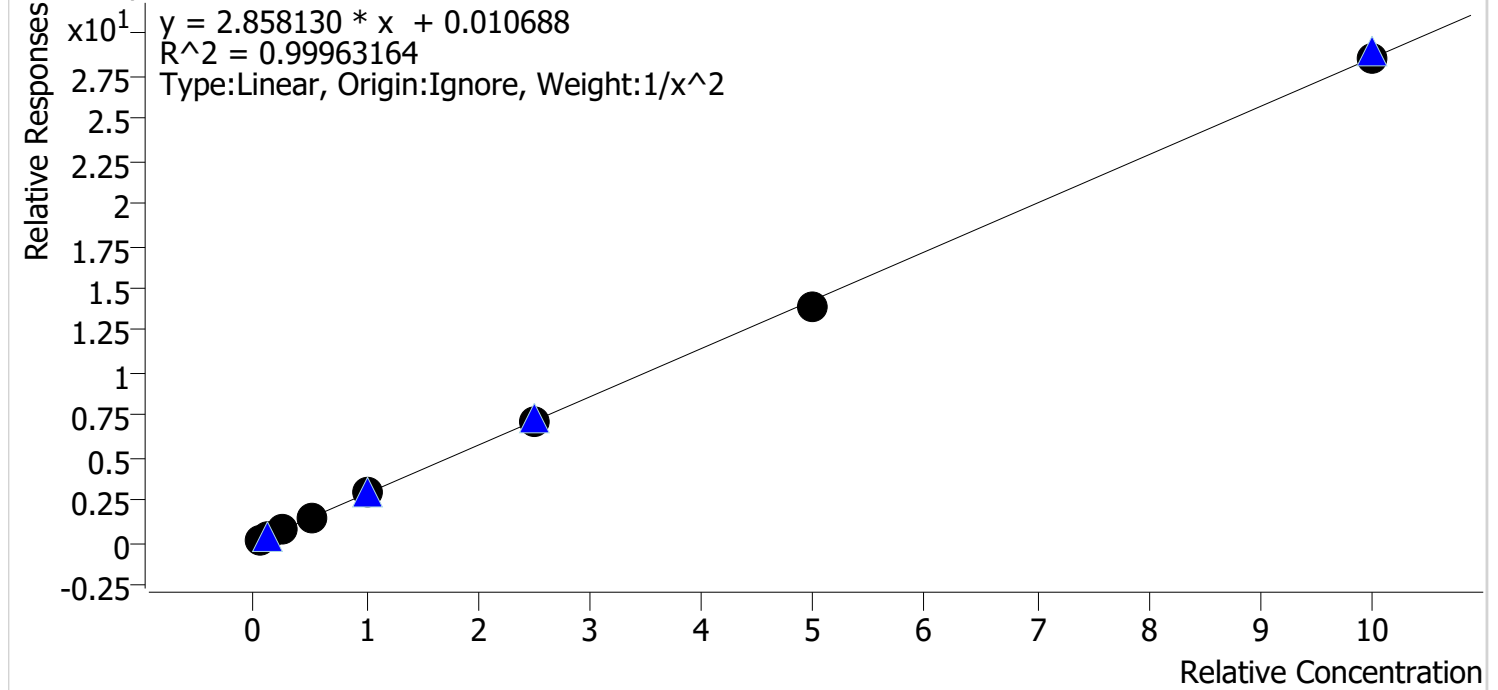
Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Nordiazepam

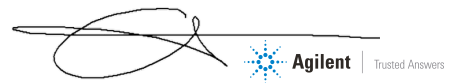
Internal Standard Nordiazepam-D5

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



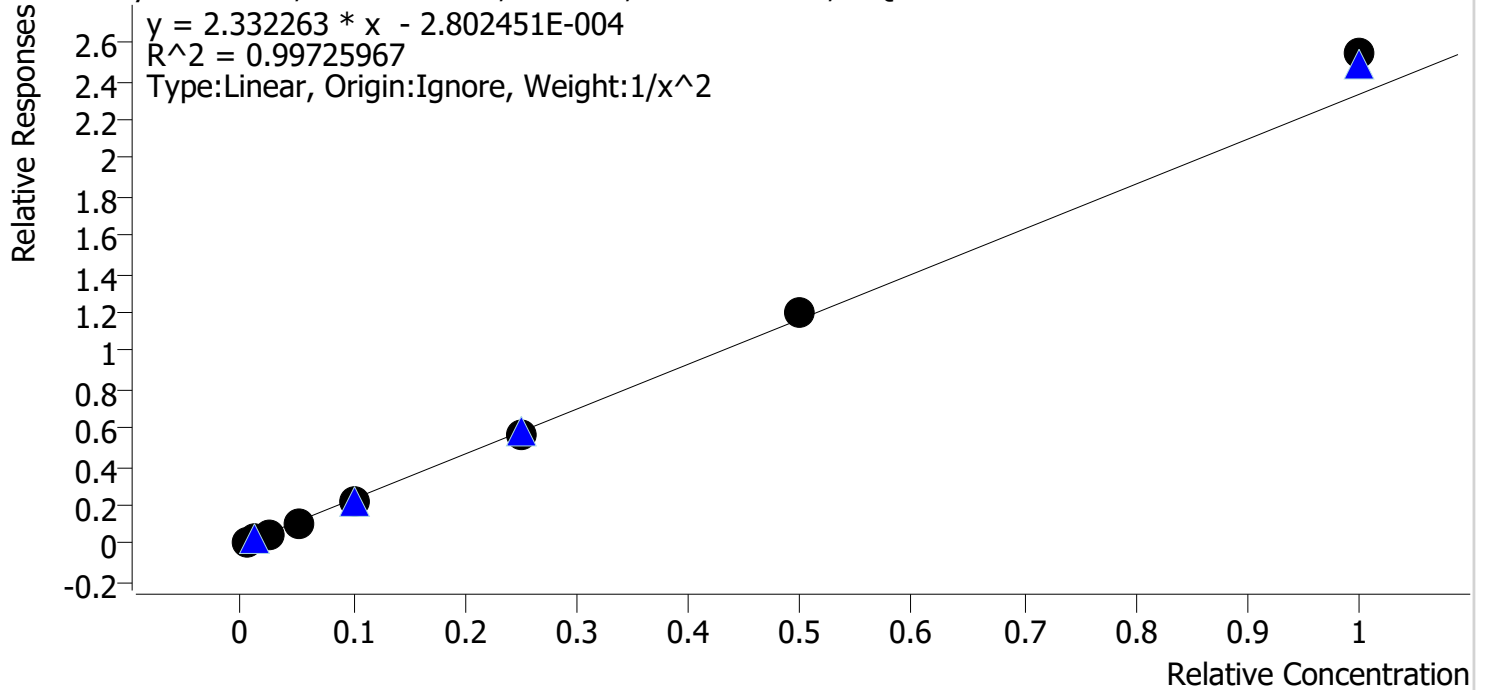
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.5
cal 2	2	✓	10.0	10.2	102.2
cal 3	3	✓	25.0	25.6	102.2
cal 4	4	✓	50.0	50.2	100.4
cal 5	5	✓	100.0	99.8	99.8
cal 6	6	✓	250.0	248.3	99.3
cal 7	7	✓	500.0	487.1	97.4
cal 8	8	✓	1000.0	1001.4	100.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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

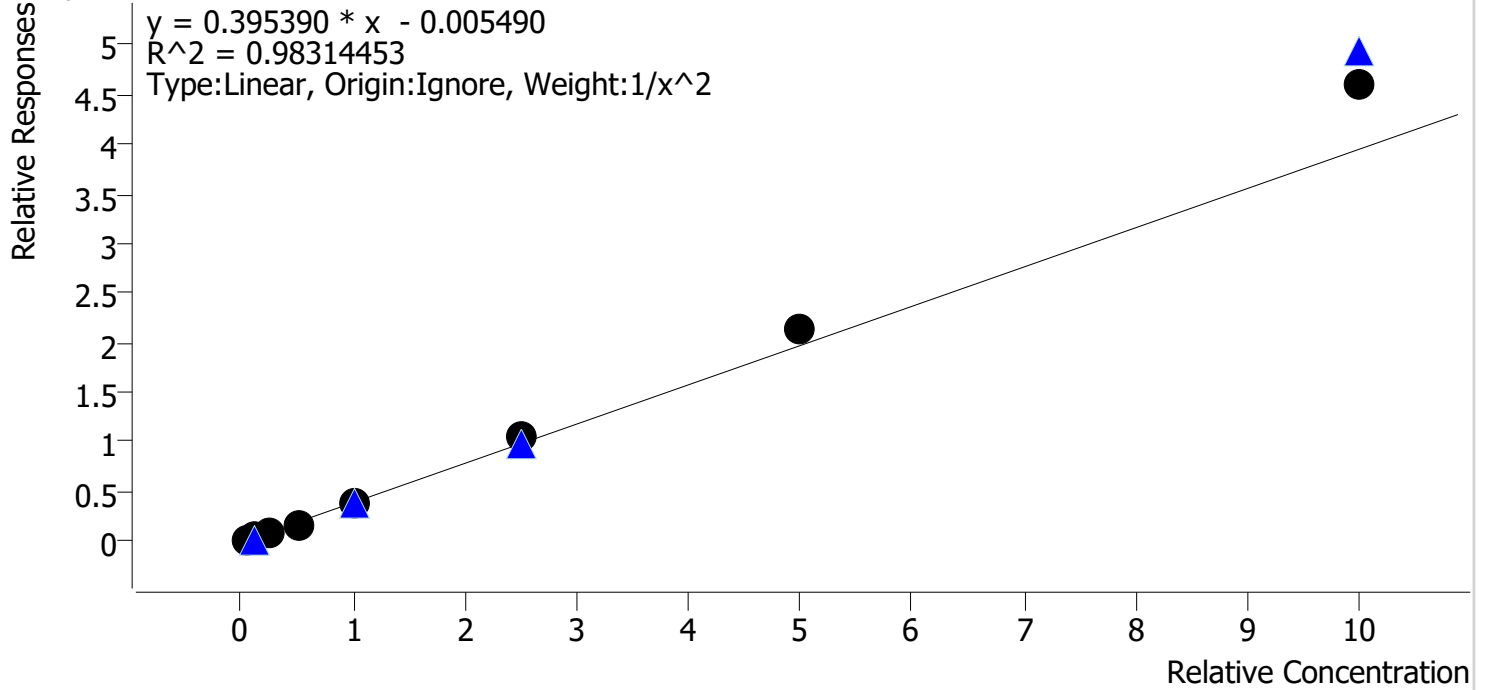


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	0.5	0.5	102.2
cal 2	2	✓	1.0	1.0	98.4
cal 3	3	✓	2.5	2.4	94.9
cal 4	4	✓	5.0	4.9	97.3
cal 5	5	✓	10.0	9.7	96.5
cal 6	6	✓	25.0	24.7	98.6
cal 7	7	✓	50.0	51.5	102.9
cal 8	8	✓	100.0	109.0	109.0

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



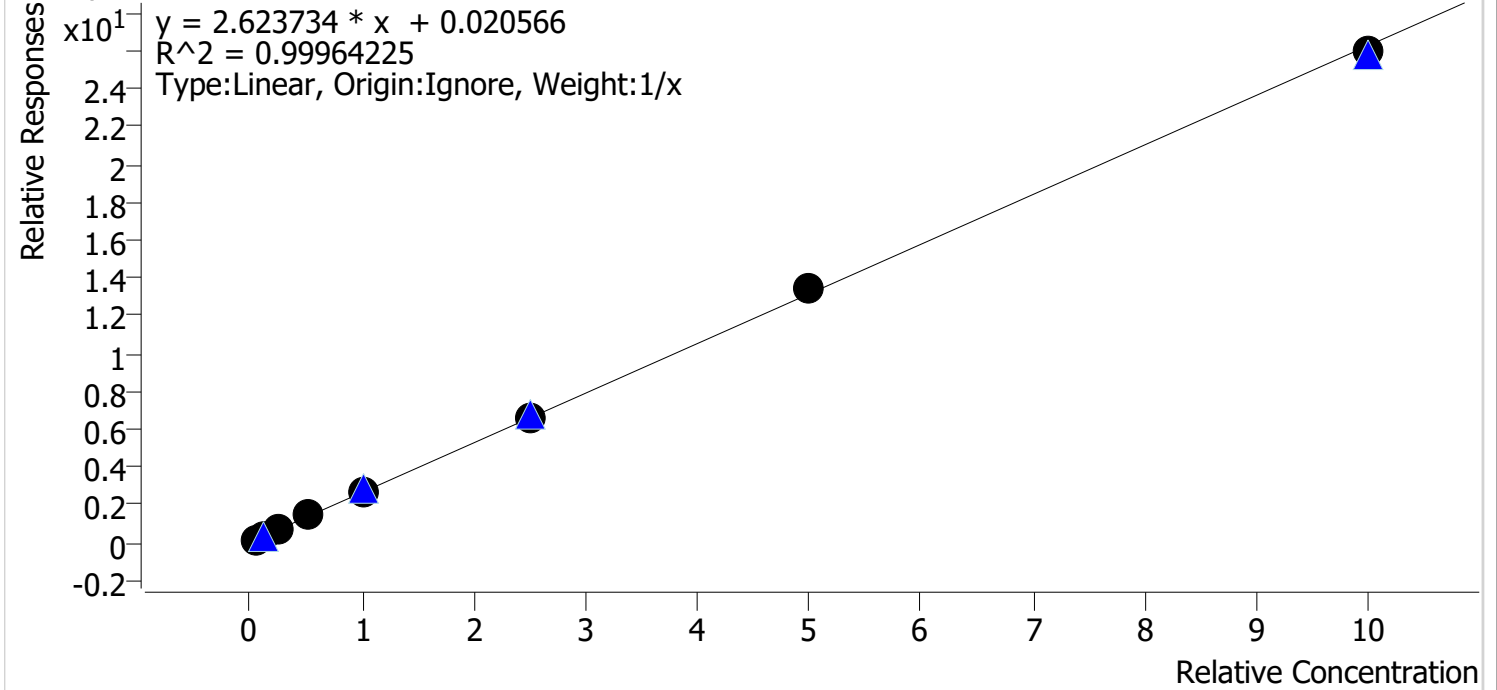
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	108.3
cal 2	2	✓	10.0	9.2	91.7
cal 3	3	✓	25.0	20.9	83.8
cal 4	4	✓	50.0	44.7	89.4
cal 5	5	✓	100.0	96.0	96.0
cal 6	6	✓	250.0	264.8	105.9
cal 7	7	✓	500.0	540.9	108.2
cal 8	8	✓	1000.0	1165.4	116.5

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Noroxycodone

Internal Standard Noroxycodone-D3

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

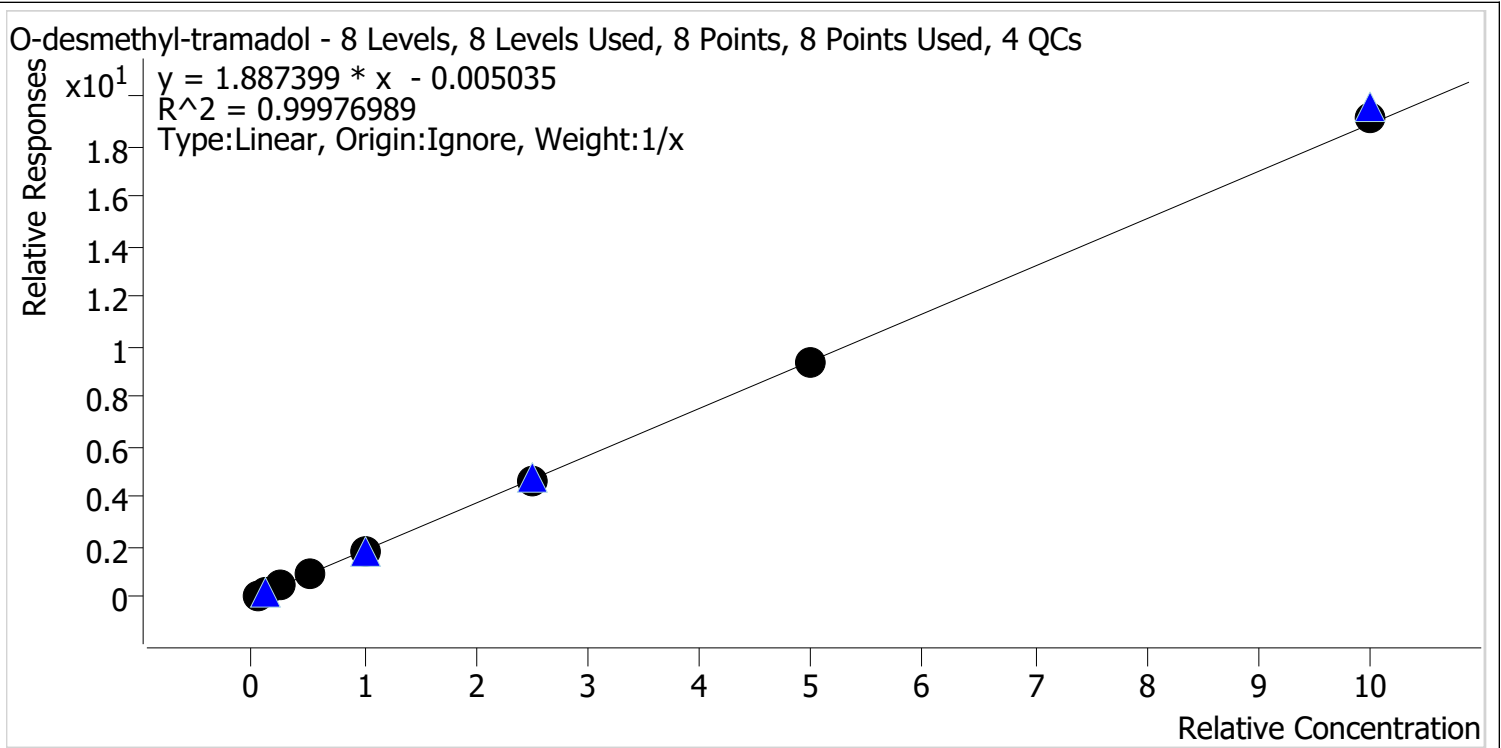


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.7	93.1
cal 2	2	✓	10.0	10.0	99.6
cal 3	3	✓	25.0	25.4	101.4
cal 4	4	✓	50.0	53.2	106.4
cal 5	5	✓	100.0	99.0	99.0
cal 6	6	✓	250.0	248.8	99.5
cal 7	7	✓	500.0	511.0	102.2
cal 8	8	✓	1000.0	988.1	98.8

Compound Calibration Report

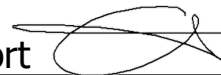


Batch results	D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin		
Last Cal. Update	10/9/2019 9:20 AM		
Analyst Name	ISP\datastor		
Analyte	O-desmethyl-tramadol	Internal Standard	O-desmethyl-tramadol-D6



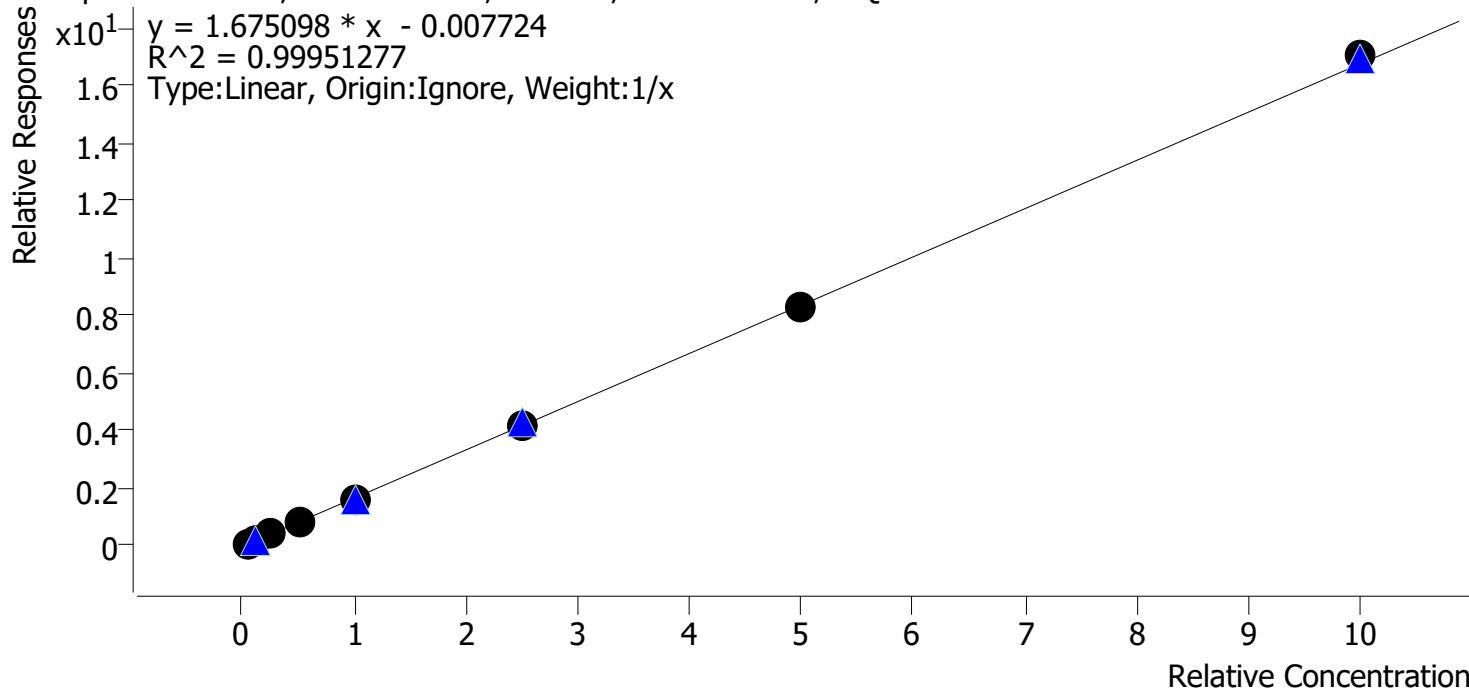
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.4	107.2
cal 2	2	✓	10.0	10.1	100.8
cal 3	3	✓	25.0	24.6	98.2
cal 4	4	✓	50.0	49.4	98.8
cal 5	5	✓	100.0	95.8	95.8
cal 6	6	✓	250.0	246.6	98.6
cal 7	7	✓	500.0	497.1	99.4
cal 8	8	✓	1000.0	1011.2	101.1

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

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



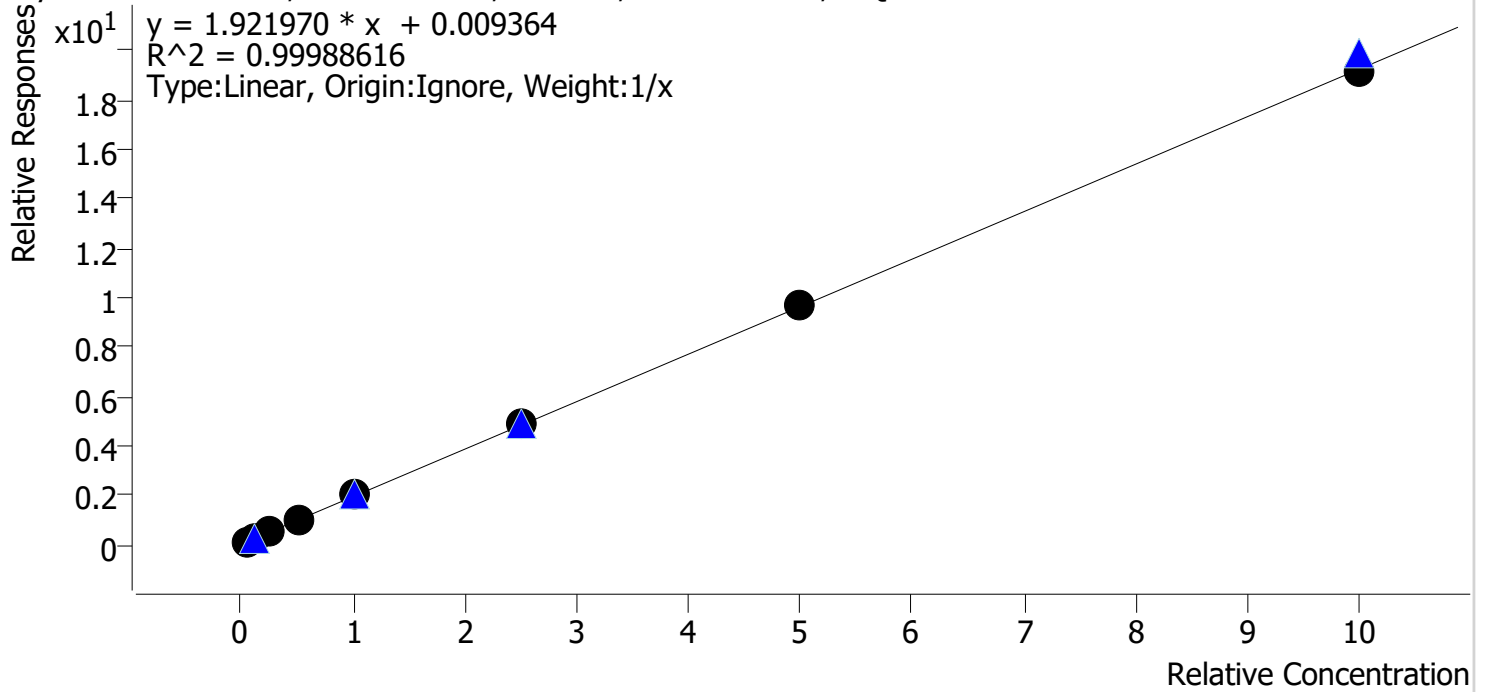
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	110.1
cal 2	2	✓	10.0	10.1	100.5
cal 3	3	✓	25.0	25.0	99.9
cal 4	4	✓	50.0	47.9	95.8
cal 5	5	✓	100.0	94.7	94.7
cal 6	6	✓	250.0	246.5	98.6
cal 7	7	✓	500.0	493.0	98.6
cal 8	8	✓	1000.0	1017.3	101.7

Compound Calibration Report

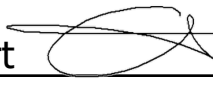


Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

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

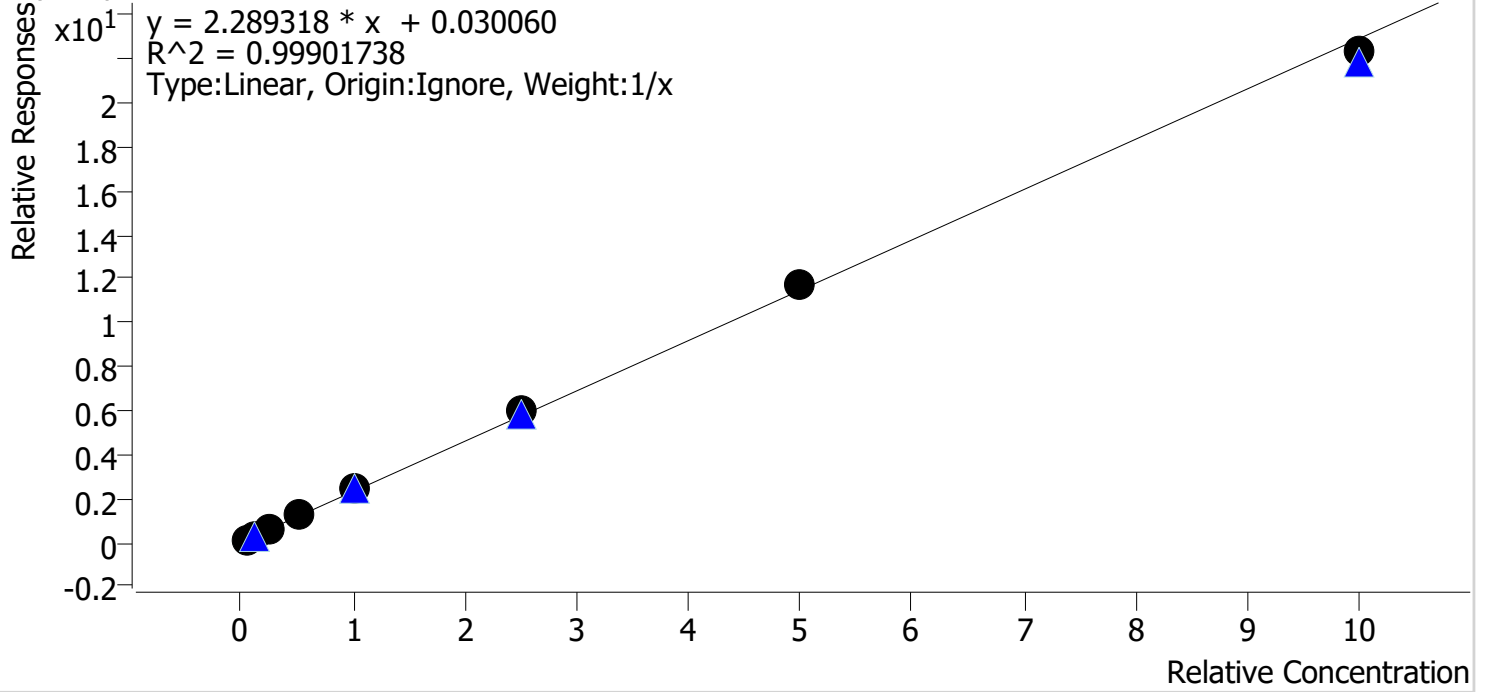


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.4
cal 2	2	✓	10.0	9.7	97.3
cal 3	3	✓	25.0	24.7	98.8
cal 4	4	✓	50.0	51.7	103.3
cal 5	5	✓	100.0	101.3	101.3
cal 6	6	✓	250.0	253.1	101.2
cal 7	7	✓	500.0	502.6	100.5
cal 8	8	✓	1000.0	992.0	99.2



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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



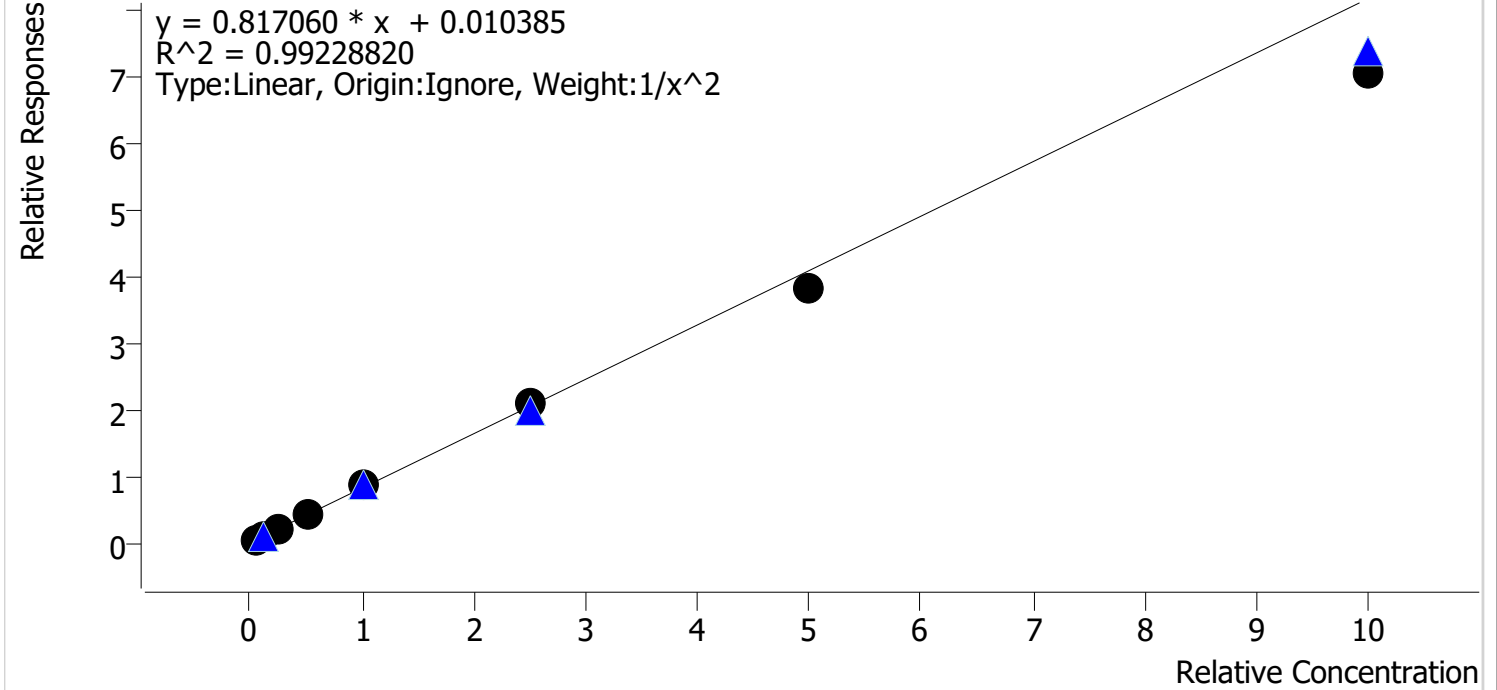
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.3	86.0
cal 2	2	✓	10.0	9.7	97.2
cal 3	3	✓	25.0	25.6	102.5
cal 4	4	✓	50.0	53.0	106.1
cal 5	5	✓	100.0	105.5	105.5
cal 6	6	✓	250.0	258.8	103.5
cal 7	7	✓	500.0	508.9	101.8
cal 8	8	✓	1000.0	974.1	97.4

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

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



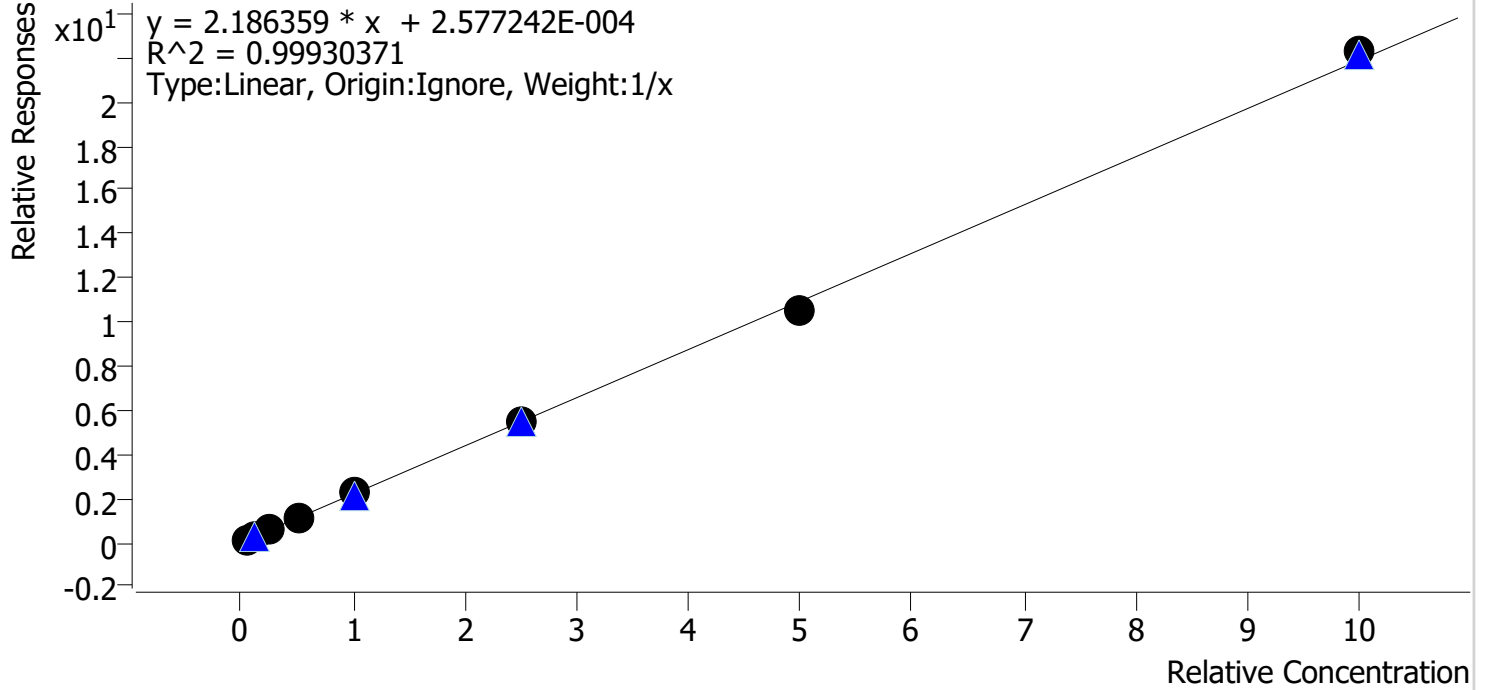
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.9
cal 2	2	✓	10.0	10.1	100.9
cal 3	3	✓	25.0	27.1	108.3
cal 4	4	✓	50.0	54.4	108.9
cal 5	5	✓	100.0	103.8	103.8
cal 6	6	✓	250.0	254.1	101.6
cal 7	7	✓	500.0	466.7	93.3
cal 8	8	✓	1000.0	862.1	86.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Promethazine

Internal Standard Promethazine-D3

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



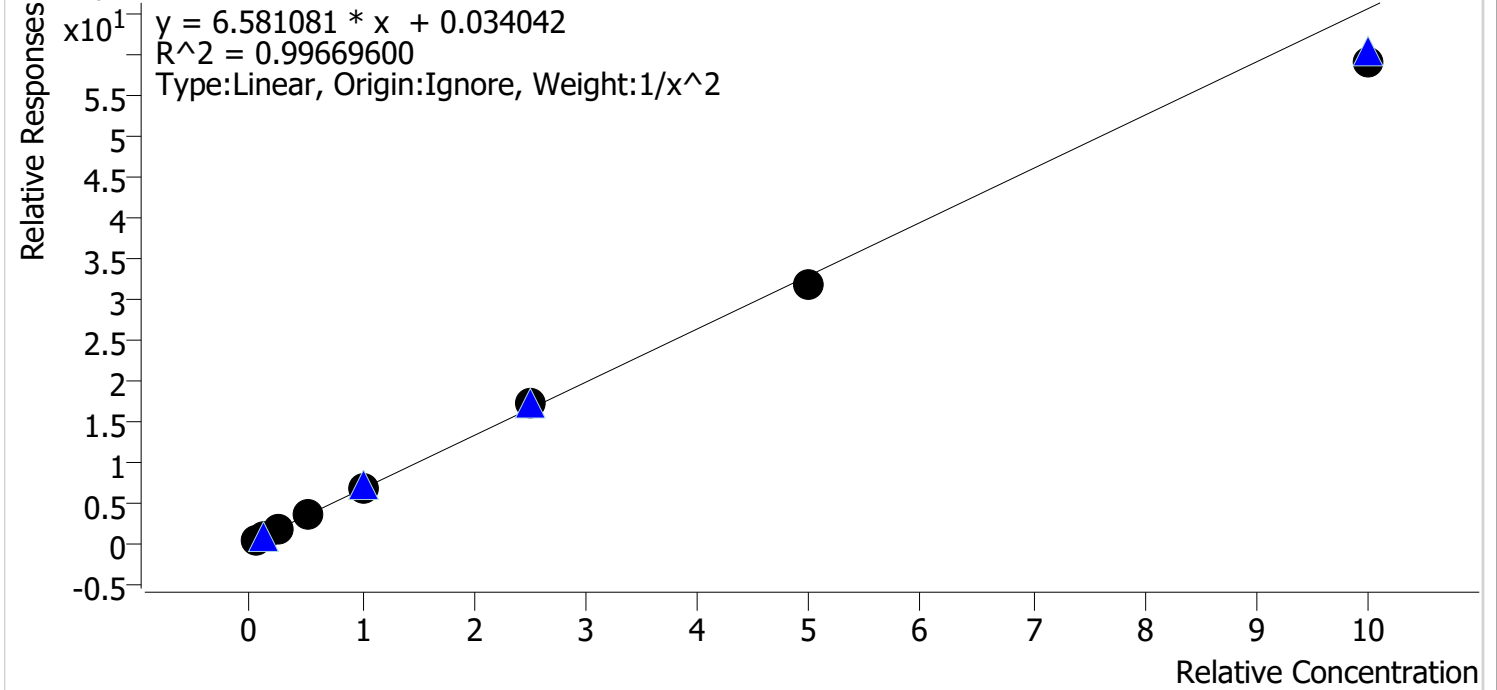
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.2	103.0
cal 2	2	✓	10.0	10.0	100.3
cal 3	3	✓	25.0	24.5	97.9
cal 4	4	✓	50.0	49.9	99.8
cal 5	5	✓	100.0	100.2	100.2
cal 6	6	✓	250.0	252.6	101.0
cal 7	7	✓	500.0	479.3	95.9
cal 8	8	✓	1000.0	1018.3	101.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Quetiapine

Internal Standard Quetiapine-D8

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

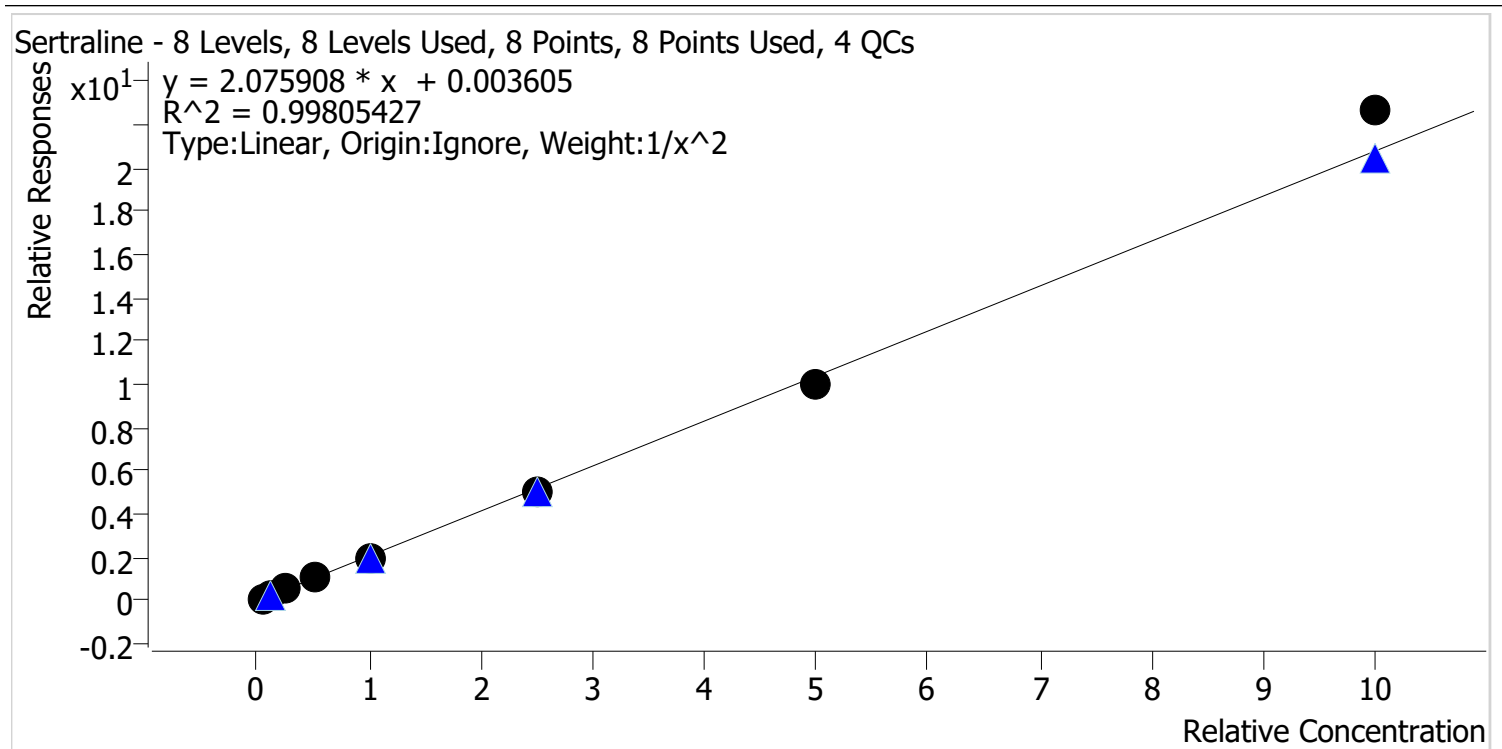


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.7
cal 2	2	✓	10.0	10.3	102.6
cal 3	3	✓	25.0	25.4	101.7
cal 4	4	✓	50.0	52.9	105.8
cal 5	5	✓	100.0	101.4	101.4
cal 6	6	✓	250.0	259.8	103.9
cal 7	7	✓	500.0	483.1	96.6
cal 8	8	✓	1000.0	901.7	90.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

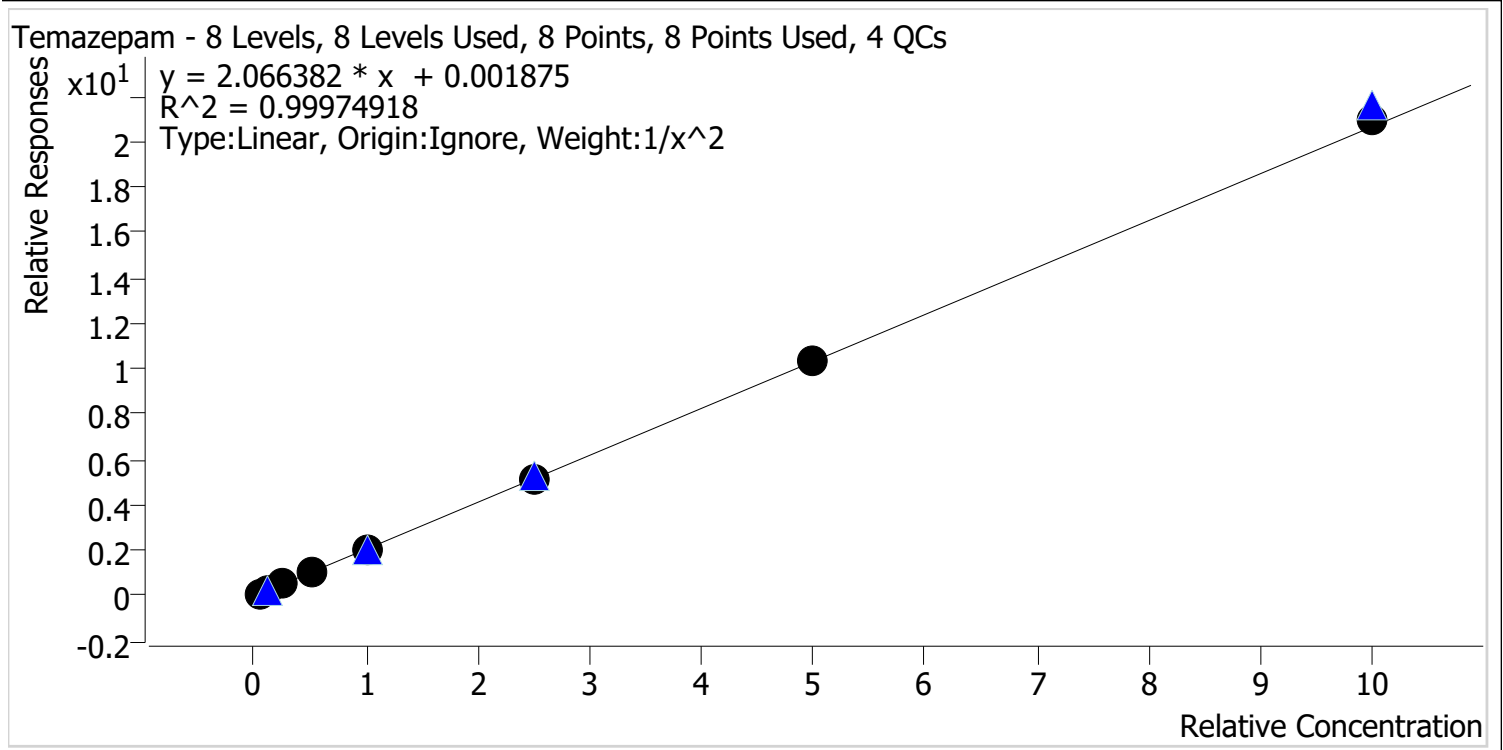


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.7
cal 2	2	✓	10.0	9.9	99.4
cal 3	3	✓	25.0	24.7	98.8
cal 4	4	✓	50.0	49.7	99.3
cal 5	5	✓	100.0	97.5	97.5
cal 6	6	✓	250.0	246.3	98.5
cal 7	7	✓	500.0	483.6	96.7
cal 8	8	✓	1000.0	1089.9	109.0

Compound Calibration Report

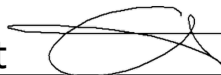


Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5



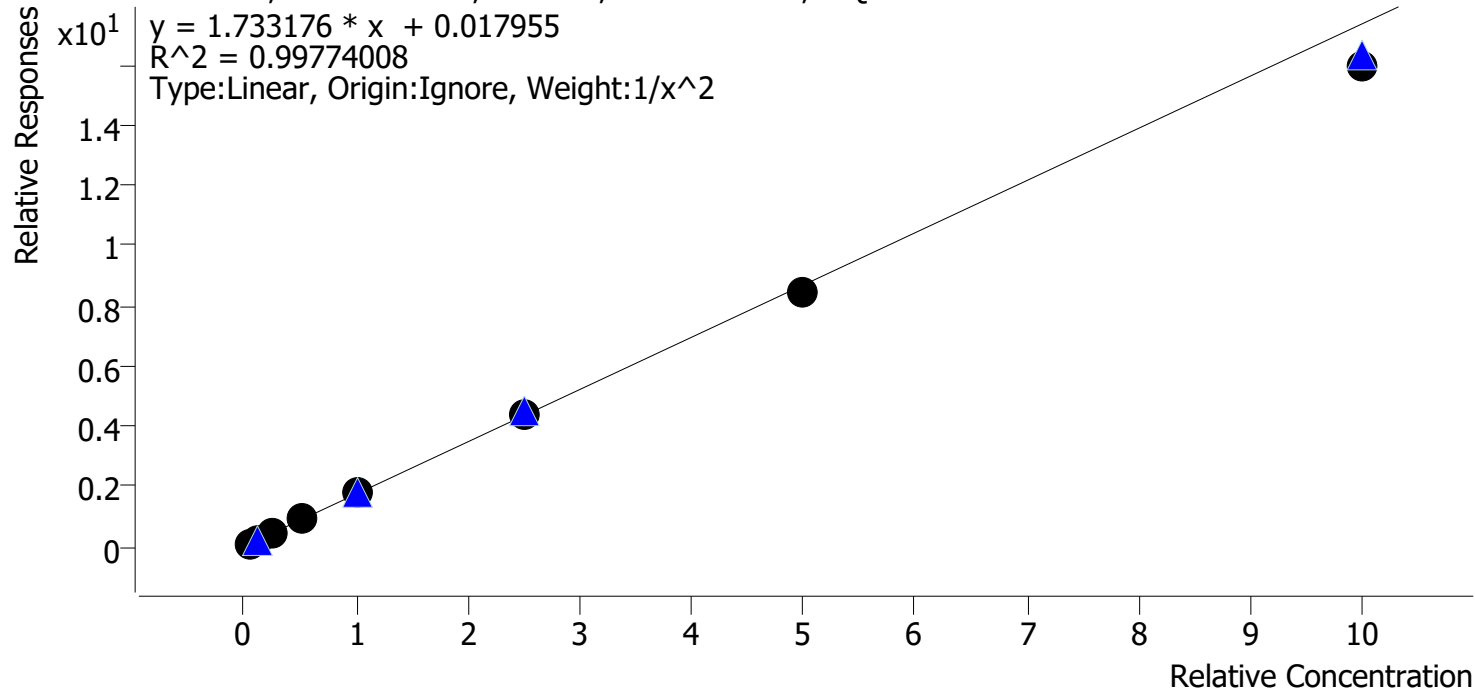
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	101.2
cal 2	2	✓	10.0	9.8	97.6
cal 3	3	✓	25.0	25.1	100.4
cal 4	4	✓	50.0	49.5	99.0
cal 5	5	✓	100.0	100.2	100.2
cal 6	6	✓	250.0	247.6	99.1
cal 7	7	✓	500.0	503.4	100.7
cal 8	8	✓	1000.0	1018.7	101.9

Compound Calibration Report



Batch results	D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin		
Last Cal. Update	10/9/2019 9:20 AM		
Analyst Name	ISP\datastor		
Analyte	Tramadol	Internal Standard	Tramadol-13C-D3

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



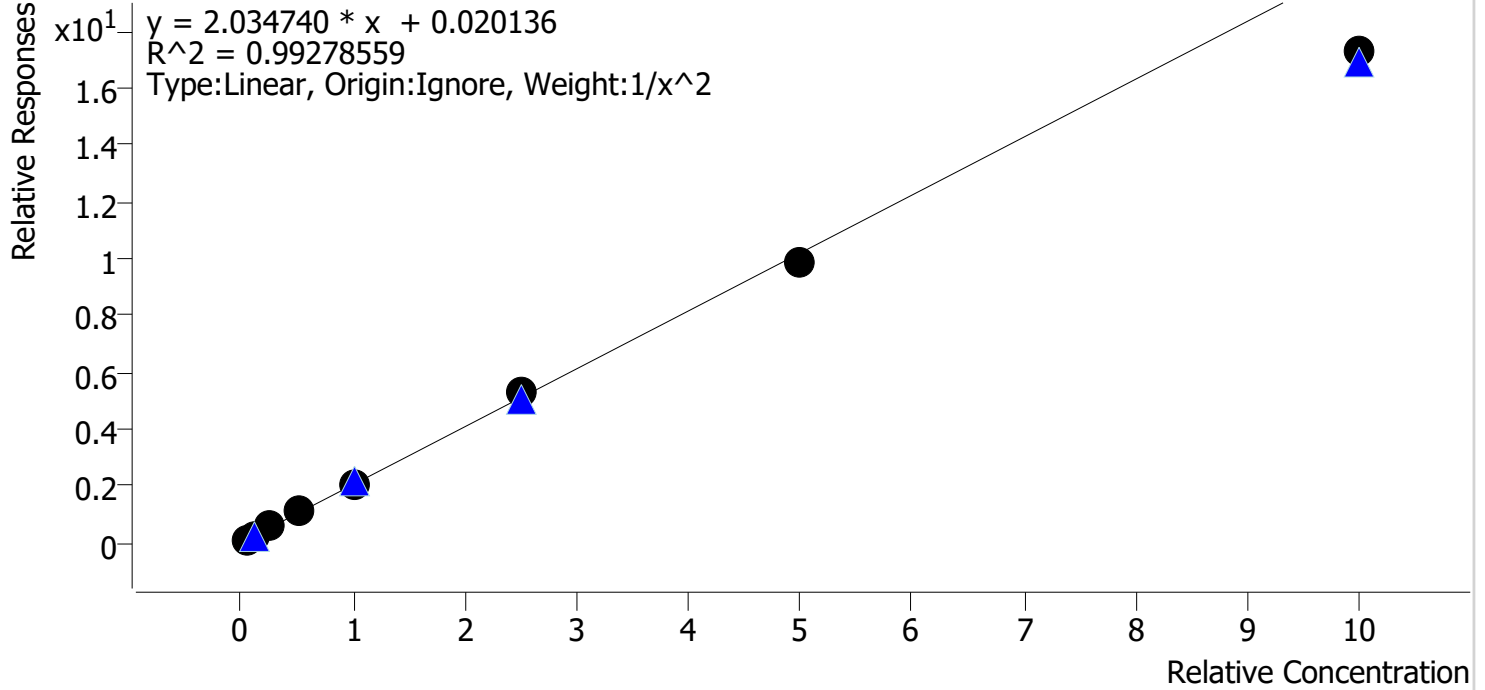
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	97.6
cal 2	2	✓	10.0	10.2	102.3
cal 3	3	✓	25.0	25.9	103.6
cal 4	4	✓	50.0	52.5	105.0
cal 5	5	✓	100.0	102.0	102.0
cal 6	6	✓	250.0	249.0	99.6
cal 7	7	✓	500.0	488.5	97.7
cal 8	8	✓	1000.0	922.1	92.2



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Trazodone

Internal Standard Trazodone-D6

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



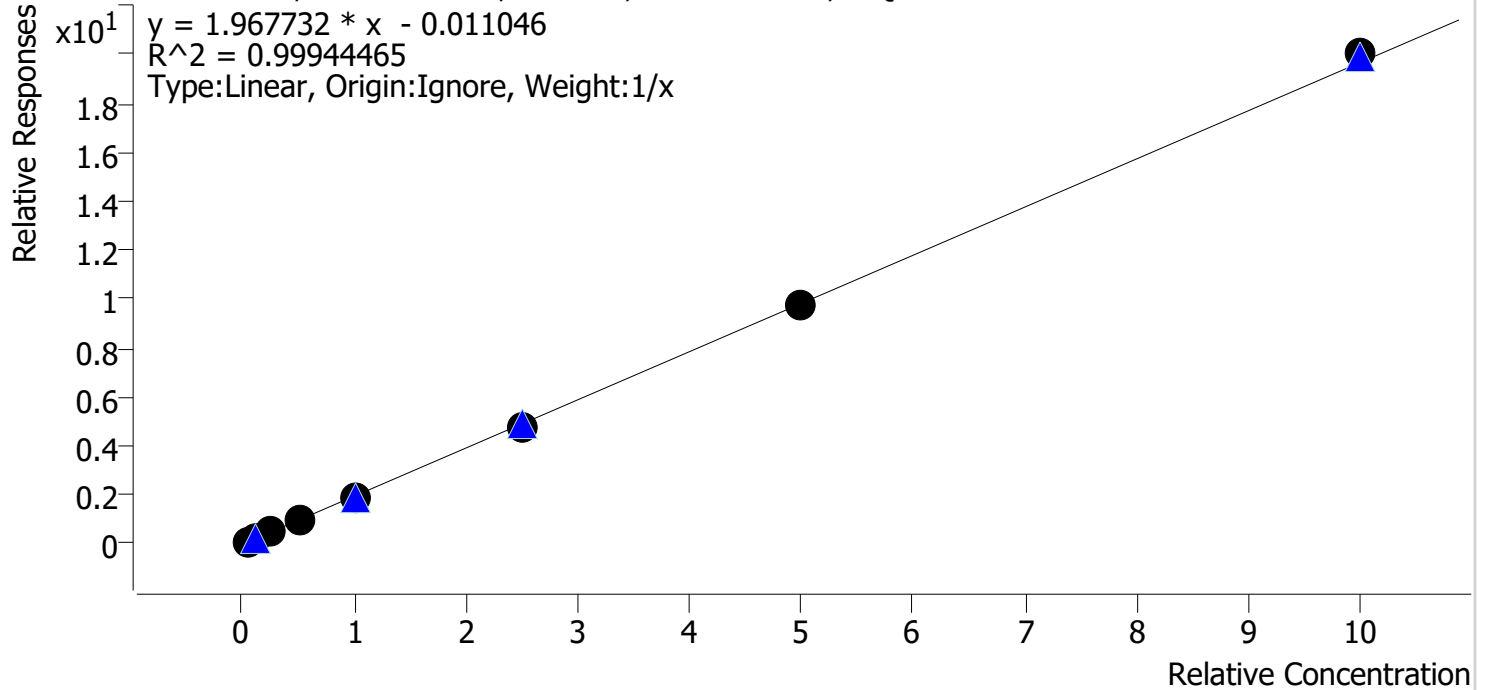
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.8	96.8
cal 2	2	✓	10.0	10.2	101.9
cal 3	3	✓	25.0	26.9	107.4
cal 4	4	✓	50.0	53.7	107.3
cal 5	5	✓	100.0	102.6	102.6
cal 6	6	✓	250.0	257.2	102.9
cal 7	7	✓	500.0	481.7	96.3
cal 8	8	✓	1000.0	847.7	84.8

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

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

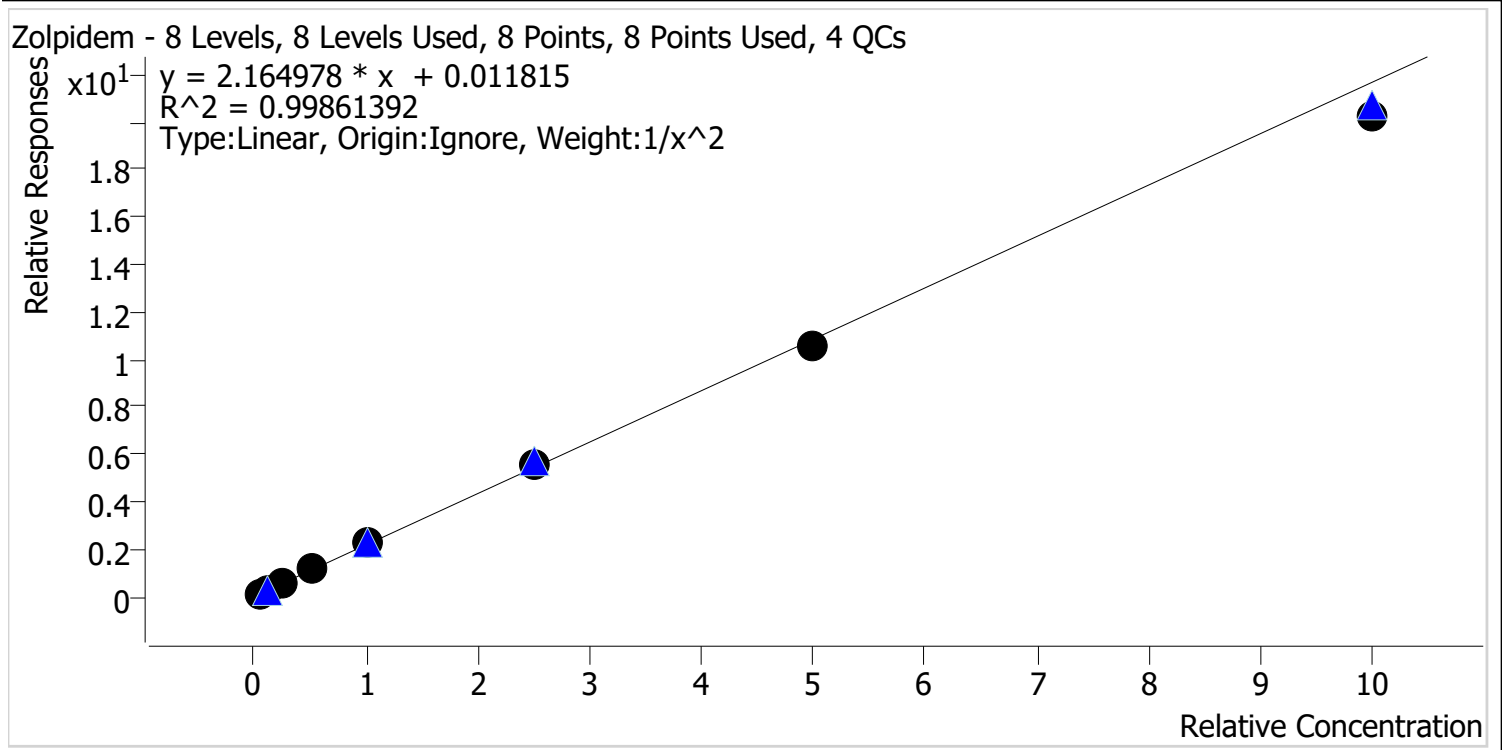


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.5	110.6
cal 2	2	✓	10.0	10.1	101.5
cal 3	3	✓	25.0	24.3	97.1
cal 4	4	✓	50.0	48.9	97.8
cal 5	5	✓	100.0	95.4	95.4
cal 6	6	✓	250.0	241.5	96.6
cal 7	7	✓	500.0	495.8	99.2
cal 8	8	✓	1000.0	1018.5	101.9

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Last Cal. Update 10/9/2019 9:20 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	99.1
cal 2	2	✓	10.0	10.0	100.1
cal 3	3	✓	25.0	25.5	101.9
cal 4	4	✓	50.0	51.7	103.3
cal 5	5	✓	100.0	102.7	102.7
cal 6	6	✓	250.0	254.0	101.6
cal 7	7	✓	500.0	488.7	97.7
cal 8	8	✓	1000.0	934.8	93.5

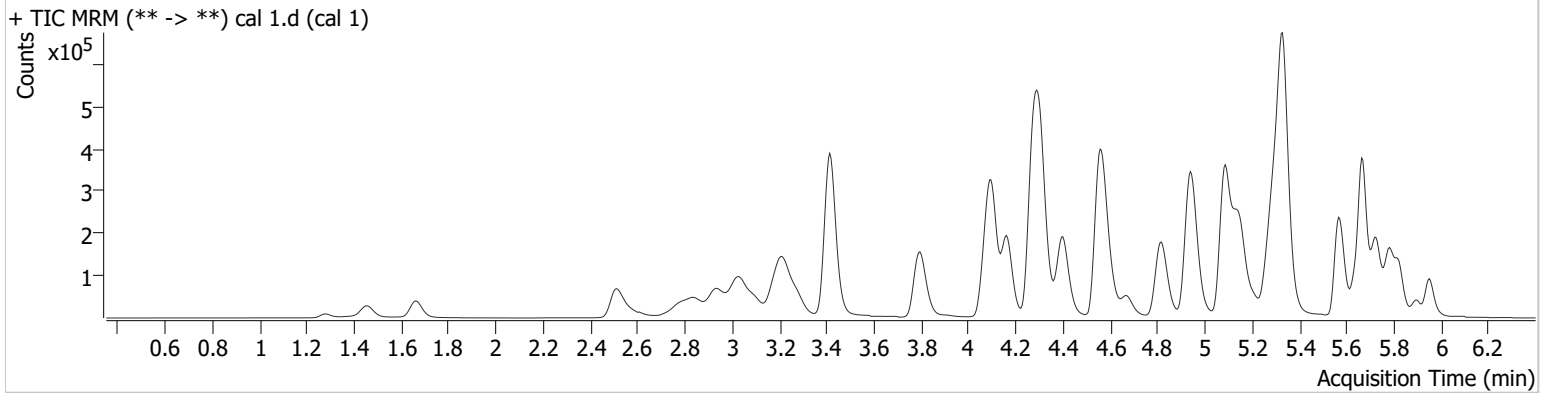
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-A1
Injection Volume 2
Acq. Date-Time 10/8/2019 6:43:06 PM
Sample Info.

Data File cal 1.d
Sample cal 1
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.183	1365	2263.5	74.5	1168.7	70343	0.520 ng/ml
7-aminoclonazepam	4.313	17298	6616.0	85.1	9841.6	137271	4.827 ng/ml
a-hydroxyalprazolam	5.709	1917	2468.6	65.1	1128.7	22460	4.846 ng/ml
alpha-PVP	4.407	63131	8727.1	52.2	580.0	526630	5.351 ng/ml
Alprazolam	5.787	29236	1868.3	109.3	1931.3	198745	5.423 ng/ml
Amphetamine	3.096	96925	433.4	54.0	83.7	305402	4.837 ng/ml
Benzoylcegonine	3.926	1403	830.3	8.8	108.8	9441	5.165 ng/ml
Buprenorphine	5.852	882	71.0	15.8	153.7	58489	0.617 ng/ml
Bupropion	4.835	74811	2697.6	56.1	628.9	529723	5.024 ng/ml
Carisoprodol	5.738	25817	13006.9	58.7	299.4	245224	4.937 ng/ml
Citalopram	5.272	44623	472.1	47.2	16115.1	389800	4.757 ng/ml
Clonazepam	5.633	7120	4184.9	32.7	2641.3	23066	4.687 ng/ml
Cocaine	4.307	55269	34905.0	44.4	300.1	840928	5.220 ng/ml
Codeine	2.552	7237	65.3	101.4	11982.2	67721	5.015 ng/ml
Cyclobenzaprine	5.640	26157	22667.7	10.1	838.5	197402	4.895 ng/ml
Dextromethorphan	5.311	28377	21448.8	76.2	19561.5	265250	5.023 ng/ml
Dextrorphan	4.166	21050	39908.2	217.2	69426.1	488809	5.092 ng/ml
Diazepam	5.957	20239	416.5	86.9	1203.6	191337	4.783 ng/ml
Dihydrocodeine	2.536	20499	423.5	63.3	176.9	216998	4.839 ng/ml
Diphenhydramine	5.337	132712	6243.9	33.9	37785.6	1473902	5.519 ng/ml
Doxylamine	4.579	157085	2138.9	95.8	2949.0	1310140	5.001 ng/ml
EDDP	5.300	24413	594.4	243.0	6899.3	557089	5.008 ng/ml
Fentanyl	5.148	3105	170.0	77.5	1175.9	338507	0.501 ng/ml
Fluoxetine	5.721	17847	3296.4	7.9	354.1	145917	4.654 ng/ml
Hydrocodone	3.058	19989	425.3	35.8	412.1	226564	4.727 ng/ml
Hydromorphone	1.673	15421	22.9	74.1	26.4	117469	4.922 ng/ml
Ketamine	4.092	48714	2944.9	37.3	416.0	454506	4.959 ng/ml
Lamotrigine	4.345	5400	235.1	90.0	297.9	265250	5.274 ng/ml
Lorazepam	5.761	2968	125.2	58.5	18.5	198745	4.856 ng/ml
Meprobamate	4.957	8295	8174.8	29.5	178.1	77706	4.769 ng/ml
Methadone	5.669	81381	2909.1	46.9	2529.2	769626	5.158 ng/ml
Methamphetamine	3.274	99471	144.1	39.7	196.8	629629	4.792 ng/ml
Metoprolol	4.364	14253	6754.1	96.1	573.8	1473902	5.075 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	94016	2146.5	46.9	1396.1	769626	5.360 ng/ml
Mitragynine	5.276	10108	10806.7	40.7	3132.4	265250	4.780 ng/ml
Morphine	1.287	3189	18347.7	21.7	2969.3	8494	5.011 ng/ml
Norbuprenorphine	5.029	96	118.5	80.7	43.1	8523	0.413 ng/ml
Nordiazepam	5.902	11782	15679.1	60.9	12485.1	77820	4.923 ng/ml
Norfentanyl	4.127	8787	1461.0	40.0	42.4	755066	0.511 ng/ml
Norhydrocodone	3.115	1193	437.5	32.6	141.9	74907	5.417 ng/ml
Noroxycodone	2.952	15811	346.5	40.4	256.2	110813	4.654 ng/ml
O-desmethyl-tramadol	3.420	115204	18233.0	7.2	414.1	1197933	5.362 ng/ml
Oxazepam	5.768	4157	101.1	82.0	50.5	49199	5.505 ng/ml
Oxycodone	2.844	32618	184.3	27.9	159.6	313927	4.919 ng/ml
Oxymorphone	1.460	13811	1489.9	44.5	8430.6	107440	4.302 ng/ml
Phentermine	3.828	27756	51.6	5.1	48.3	555471	4.845 ng/ml
Promethazine	5.568	41614	788.3	31.4	705.7	368569	5.152 ng/ml
Quetiapine	5.586	66441	1680.9	59.0	28185.1	186904	4.884 ng/ml
Sertraline	5.788	7727	3499.6	97.3	7363.8	71439	5.036 ng/ml
Temazepam	5.829	24648	616.9	29.1	69.2	231562	5.060 ng/ml
Tramadol	4.288	122119	14596.9	3.4	251.5	1190824	4.881 ng/ml
Trazodone	5.209	60797	52672.5	77.6	414.5	512724	4.838 ng/ml
Venlafaxine	5.088	101830	238.8	39.1	369.8	1041147	5.532 ng/ml
Zolpidem	4.965	122176	133659.8	30.5	9791.3	1025596	4.957 ng/ml

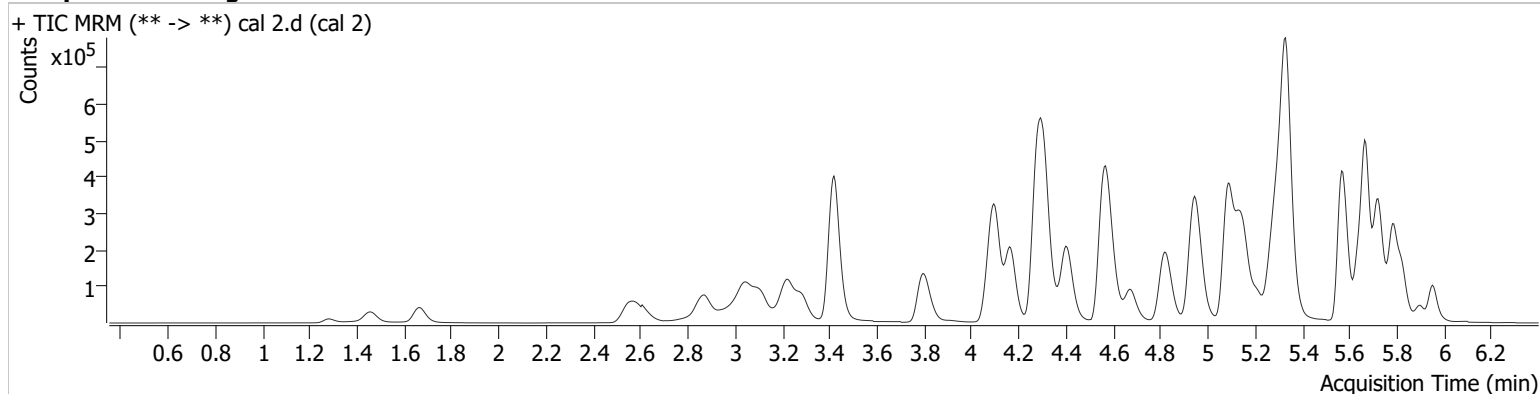


AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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 10/8/2019 6:53:57 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	2336	630.5	77.5	468.5	65716	0.954 ng/ml
7-aminoclonazepam	4.313	31433	519.9	84.7	223.3	130140	10.279 ng/ml
a-hydroxyalprazolam	5.714	3804	255.0	53.8	488.9	20706	10.478 ng/ml
alpha-PVP	4.412	116090	580.7	53.3	6034.5	506457	10.032 ng/ml
Alprazolam	5.787	52371	3704.1	107.7	2257.5	185149	10.158 ng/ml
Amphetamine	3.112	151065	272.1	54.0	297.7	266344	10.165 ng/ml
Benzoylcegonine	3.931	2412	1276.8	8.1	93.9	9158	9.411 ng/ml
Buprenorphine	5.852	1935	1262.0	17.5	134.7	68925	1.000 ng/ml
Bupropion	4.835	131262	36316.2	58.8	838.0	508689	9.824 ng/ml
Carisoprodol	5.738	46629	54211.9	57.5	135.4	218865	10.149 ng/ml
Citalopram	5.272	93868	1280.9	46.7	33369.4	411761	10.017 ng/ml
Clonazepam	5.633	11693	138.3	35.9	4955.3	20671	9.673 ng/ml
Cocaine	4.307	100567	54529.0	45.6	8296.8	793775	9.992 ng/ml
Codeine	2.623	13312	17039.6	107.9	7188.0	67166	9.757 ng/ml
Cyclobenzaprine	5.640	91466	129941.4	10.1	699.7	361018	9.695 ng/ml
Dextromethorphan	5.311	63097	52839.6	78.3	28137.7	302808	9.927 ng/ml
Dextrorphan	4.166	40188	88135.7	215.7	124182.9	476007	9.971 ng/ml
Diazepam	5.957	37887	1584.4	87.4	2261.9	182109	9.870 ng/ml
Dihydrocodeine	2.591	38231	21288.2	64.7	1106.6	211185	10.266 ng/ml
Diphenhydramine	5.337	268078	6040.2	33.7	12893.3	1545248	10.058 ng/ml
Doxylamine	4.579	285702	140075.3	97.0	15271.8	1230005	9.942 ng/ml
EDDP	5.305	44749	142.6	232.3	10092.2	521474	9.996 ng/ml
Fentanyl	5.148	9120	11778.1	75.1	5143.7	475696	1.009 ng/ml
Fluoxetine	5.721	105672	6194.3	8.3	545.6	434993	9.888 ng/ml
Hydrocodone	3.074	36170	734.9	39.2	301.3	215377	9.709 ng/ml
Hydromorphone	1.673	28692	3907.8	68.9	743.3	104777	10.330 ng/ml
Ketamine	4.092	88455	1636.7	37.6	969.2	432238	10.018 ng/ml
Lamotrigine	4.345	9870	573.7	88.9	1069.1	302808	9.214 ng/ml
Lorazepam	5.761	5150	121.2	58.0	36.8	185149	10.227 ng/ml
Meprobamate	4.962	15714	9612.8	29.3	594.3	73867	10.455 ng/ml
Methadone	5.669	176707	8440.6	46.9	11603.1	863850	9.972 ng/ml
Methamphetamine	3.284	126868	340.4	41.4	204.7	434877	10.333 ng/ml
Metoprolol	4.364	26399	1106.9	96.8	5608.6	1545248	9.803 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	183083	81756.4	46.4	804.0	863850	9.203 ng/ml
Mitragynine	5.276	24613	23084.2	38.6	6417.0	302808	10.465 ng/ml
Morphine	1.287	5895	2609.8	21.6	185.2	8258	9.949 ng/ml
Norbuprenorphine	5.039	226	96.5	88.7	153.0	9744	1.091 ng/ml
Nordiazepam	5.902	21921	19380.3	60.7	19648.7	72405	10.219 ng/ml
Norfentanyl	4.127	15914	587.1	41.3	235.0	701883	0.984 ng/ml
Norhydrocodone	3.120	2171	526.4	37.7	71.7	70528	9.174 ng/ml
Noroxycodone	2.977	26981	508.5	42.2	290.4	95686	9.963 ng/ml
O-desmethyl-tramadol	3.425	209036	19629.3	6.7	759.8	1129127	10.076 ng/ml
Oxazepam	5.768	7344	133.1	82.8	189.0	45709	10.053 ng/ml
Oxycodone	2.889	59553	1511.3	28.8	1010.7	303388	9.726 ng/ml
Oxymorphone	1.460	25396	20.8	44.7	15756.2	100565	9.718 ng/ml
Phentermine	3.833	44126	204.6	5.1	110.6	475165	10.095 ng/ml
Promethazine	5.568	151778	134872.3	31.3	216.1	691219	10.031 ng/ml
Quetiapine	5.586	126296	124294.6	58.9	441.3	178002	10.264 ng/ml
Sertraline	5.788	48587	34764.6	101.8	40846.2	231318	9.945 ng/ml
Temazepam	5.829	45468	709.1	29.7	115.6	223311	9.763 ng/ml
Tramadol	4.288	224655	1404.1	3.7	48.1	1150988	10.226 ng/ml
Trazodone	5.214	123491	2397.9	78.4	81.4	542883	10.190 ng/ml
Venlafaxine	5.088	187470	452.3	39.0	1477.1	993689	10.149 ng/ml
Zolpidem	4.965	215255	188522.7	31.1	44863.1	942093	10.008 ng/ml

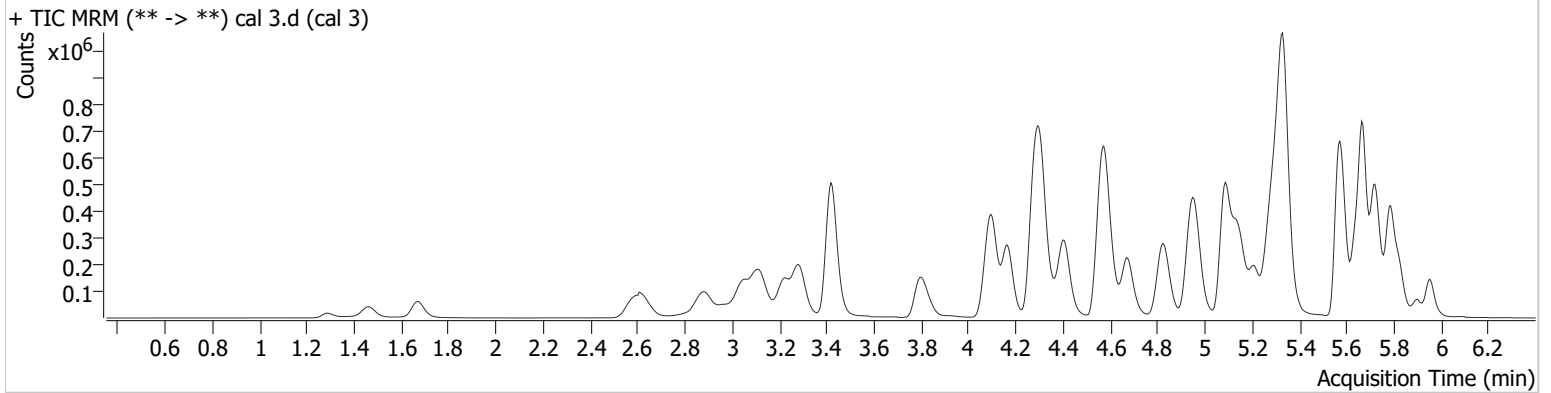
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

Instrument 69679
Type Cal
Acq. Method mdq p1 cda 121818.m
Sample Position P2-C1
Injection Volume 2
Acq. Date-Time 10/8/2019 7:04:44 PM
Sample Info.

Data File cal 3.d
Sample cal 3
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	5821	7801.2	73.3	419.9	66902	2.339 ng/ml
7-aminoclonazepam	4.313	74364	1044.7	85.5	46620.4	129185	26.046 ng/ml
a-hydroxyalprazolam	5.709	9222	387.2	57.9	208.4	20172	26.133 ng/ml
alpha-PVP	4.412	288835	1249.8	53.1	754.2	507412	24.590 ng/ml
Alprazolam	5.787	123433	183.1	112.3	3249.0	179856	24.228 ng/ml
Amphetamine	3.122	382264	1652.5	53.8	4115.5	281470	27.035 ng/ml
Benzoylcegonine	3.936	6191	6967.0	6.6	29.1	8884	25.437 ng/ml
Buprenorphine	5.852	5116	169.3	16.0	713.3	71873	2.270 ng/ml
Bupropion	4.835	331100	6004.6	59.2	1766.1	522198	25.276 ng/ml
Carisoprodol	5.738	109262	131070.1	59.3	385.6	206728	25.406 ng/ml
Citalopram	5.272	242693	2641.2	46.6	133021.1	443897	24.792 ng/ml
Clonazepam	5.633	28795	18832.3	34.3	9569.2	20727	25.653 ng/ml
Cocaine	4.307	246472	346507.7	45.3	89378.4	783641	24.689 ng/ml
Codeine	2.643	33029	92.1	106.4	1438.6	66167	25.385 ng/ml
Cyclobenzaprine	5.640	264707	7079.4	9.9	631.6	418700	24.740 ng/ml
Dextromethorphan	5.311	170575	44677.1	75.5	8146.4	326065	25.151 ng/ml
Dextrorphan	4.166	101157	63814.0	215.0	975.4	482242	24.753 ng/ml
Diazepam	5.957	95317	3114.7	84.8	5956.3	182736	25.468 ng/ml
Dihydrocodeine	2.611	94361	502.6	63.8	24073.3	215973	26.306 ng/ml
Diphenhydramine	5.337	711601	15467.4	33.6	4177.0	1632141	24.338 ng/ml
Doxylamine	4.579	725409	475438.5	96.5	39134.7	1264109	24.960 ng/ml
EDDP	5.300	114996	1696.1	234.5	1464.6	548078	24.724 ng/ml
Fentanyl	5.143	26307	16672.8	76.6	3083.6	549409	2.466 ng/ml
Fluoxetine	5.721	309364	25047.0	8.7	23672.0	516981	25.315 ng/ml
Hydrocodone	3.079	93088	2859.1	36.1	616.1	221774	25.448 ng/ml
Hydromorphone	1.678	72435	7260.7	73.7	2702.1	110991	24.697 ng/ml
Ketamine	4.092	217282	55973.6	37.9	1441.5	435670	25.285 ng/ml
Lamotrigine	4.345	24583	1139.8	85.6	833.2	326065	22.994 ng/ml
Lorazepam	5.755	12283	606.3	52.8	58.5	179856	27.102 ng/ml
Meprobamate	4.957	37835	100.1	29.0	728.7	72626	26.992 ng/ml
Methadone	5.669	480487	37455.8	45.7	36318.2	937469	24.976 ng/ml
Methamphetamine	3.284	365984	730.4	39.7	158.3	529553	26.880 ng/ml
Metoprolol	4.364	63135	977.9	97.6	1977.6	1632141	23.577 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	477220	76775.0	46.5	26083.6	937469	21.922 ng/ml
Mitragynine	5.276	66993	128224.4	37.4	26988.4	326065	26.814 ng/ml
Morphine	1.292	14276	15366.7	22.7	18745.6	8332	24.532 ng/ml
Norbuprenorphine	5.039	513	38.9	86.7	325.3	10202	2.627 ng/ml
Nordiazepam	5.907	52588	36367.4	62.3	1299.4	70962	25.555 ng/ml
Norfentanyl	4.127	39836	979.4	40.2	1081.3	723496	2.373 ng/ml
Norhydrocodone	3.120	5620	172.0	45.7	657.8	72678	20.946 ng/ml
Noroxycodone	2.977	64824	863.8	42.0	1438.3	94531	25.352 ng/ml
O-desmethyl-tramadol	3.425	523975	38859.3	6.5	209.2	1142764	24.560 ng/ml
Oxazepam	5.763	17047	432.3	77.9	135.8	41502	24.982 ng/ml
Oxycodone	2.894	149218	2203.8	28.9	359.2	308395	24.688 ng/ml
Oxymorphone	1.465	63132	854.4	43.6	464.9	102324	25.637 ng/ml
Phentermine	3.833	117985	367.3	4.9	411.0	509388	27.077 ng/ml
Promethazine	5.568	438657	9759.7	32.5	3688.5	819626	24.467 ng/ml
Quetiapine	5.586	312095	2457.2	60.6	181312.5	182743	25.433 ng/ml
Sertraline	5.788	141640	63856.1	102.0	121171.2	274321	24.699 ng/ml
Temazepam	5.829	110773	1084.0	30.8	637.0	212890	25.090 ng/ml
Tramadol	4.288	544648	29329.0	3.5	555.4	1166698	25.899 ng/ml
Trazodone	5.209	323311	126410.8	78.7	209302.7	570677	26.854 ng/ml
Venlafaxine	5.088	467954	1435.1	38.9	652.9	1002978	24.272 ng/ml
Zolpidem	4.965	547112	597.1	30.8	26739.1	971279	25.473 ng/ml

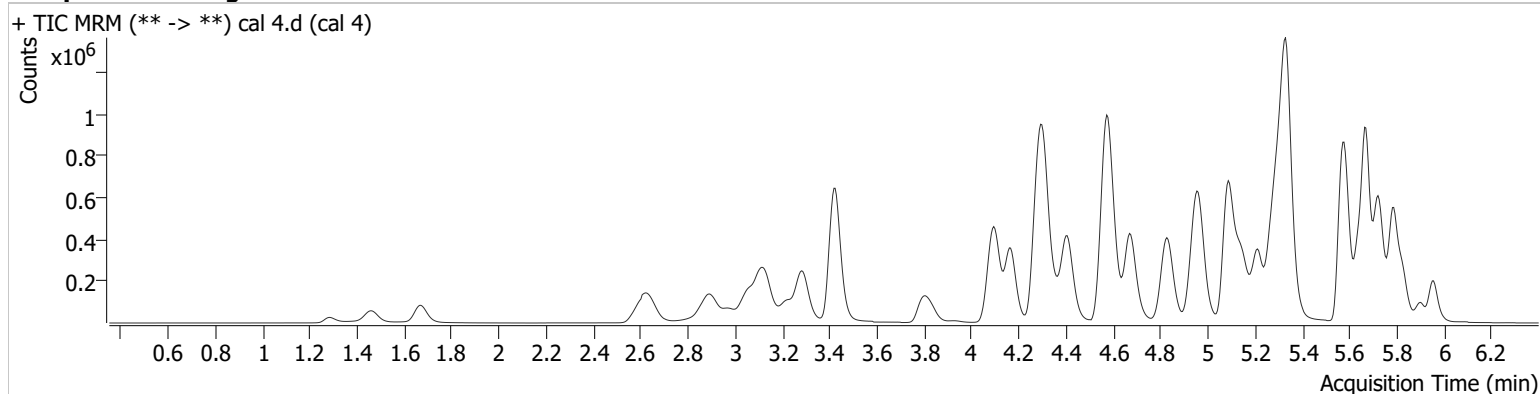
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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	10/8/2019 7:15:31 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	11162	20823.5	78.3	857.7	62465	4.804 ng/ml
7-aminoclonazepam	4.313	137176	18577.0	83.4	721.0	114152	55.591 ng/ml
a-hydroxyalprazolam	5.714	16592	1005.8	61.6	2970.1	19068	49.778 ng/ml
alpha-PVP	4.412	563296	1584.9	53.1	22205.8	489770	49.462 ng/ml
Alprazolam	5.787	236380	147.0	111.1	5119.6	168835	49.122 ng/ml
Amphetamine	3.127	590926	5117.0	53.8	1081.0	225619	53.933 ng/ml
Benzoylcegonine	3.936	10826	43.2	8.7	178.7	8345	47.638 ng/ml
Buprenorphine	5.852	9993	227.8	15.9	213.7	66428	4.606 ng/ml
Bupropion	4.835	632659	148024.6	60.1	1270.1	504626	50.739 ng/ml
Carisoprodol	5.738	207840	6096.5	58.2	410.5	195886	51.158 ng/ml
Citalopram	5.272	452276	3687.5	46.7	628164.6	408682	50.746 ng/ml
Clonazepam	5.633	53196	1024.8	33.9	24038.3	19885	50.603 ng/ml
Cocaine	4.307	481704	455503.5	44.9	528.3	749702	50.357 ng/ml
Codeine	2.648	62653	87.9	105.4	786.9	61034	52.768 ng/ml
Cyclobenzaprine	5.640	462161	130552.0	9.9	1721.6	353939	51.489 ng/ml
Dextromethorphan	5.311	299822	186853.0	77.1	171944.8	292645	49.402 ng/ml
Dextrorphan	4.166	194217	527251.4	215.9	52466.0	453927	50.477 ng/ml
Diazepam	5.957	181029	4310.9	88.2	3835.6	175391	50.865 ng/ml
Dihydrocodeine	2.622	182923	585.8	63.6	38686.3	206819	54.362 ng/ml
Diphenhydramine	5.337	1317624	21895.9	33.9	1528.4	1496552	48.516 ng/ml
Doxylamine	4.579	1433826	2476.1	96.5	1463.9	1225332	51.177 ng/ml
EDDP	5.300	218233	1146.1	234.2	1217.0	509179	50.710 ng/ml
Fentanyl	5.148	47538	5779.4	73.7	212.7	499357	4.867 ng/ml
Fluoxetine	5.721	514050	50178.4	8.5	40817.1	424964	51.841 ng/ml
Hydrocodone	3.079	182652	680.5	39.3	418.8	214174	52.518 ng/ml
Hydromorphone	1.673	127745	17677.2	75.4	402.3	95219	50.830 ng/ml
Ketamine	4.092	427160	90158.5	38.2	343.5	421561	51.996 ng/ml
Lamotrigine	4.340	45278	1284.2	88.7	663.0	292645	48.536 ng/ml
Lorazepam	5.761	21825	161.4	55.4	46.4	168835	52.519 ng/ml
Meprobamate	4.962	71205	61958.8	29.5	9175.5	69170	54.271 ng/ml
Methadone	5.669	871113	43991.5	47.9	22270.3	854103	49.696 ng/ml
Methamphetamine	3.289	477293	485.1	40.2	219.6	348494	54.990 ng/ml
Metoprolol	4.364	122950	1363.9	97.7	4198.6	1496552	51.302 ng/ml



AM #28 Multi-Drug Quant. Results

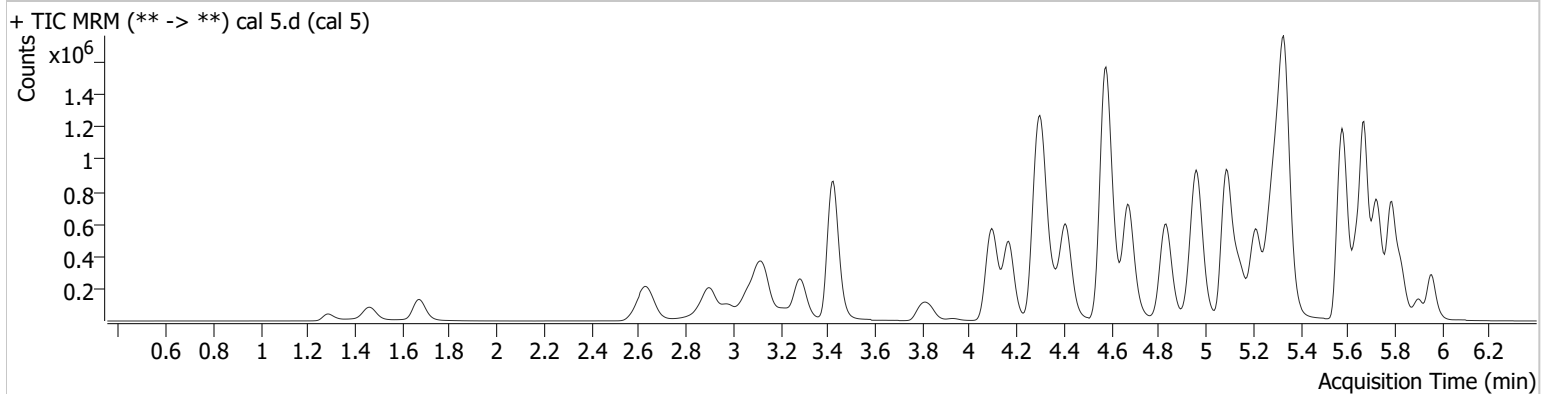
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	924914	1641.2	46.8	4528.2	854103	46.486 ng/ml
Mitragynine	5.276	118974	128884.5	38.4	44745.1	292645	53.289 ng/ml
Morphine	1.287	26070	5104.1	22.4	38164.9	7207	52.311 ng/ml
Norbuprenorphine	5.039	874	150.8	112.7	1538.4	9648	4.906 ng/ml
Nordiazepam	5.907	99825	121794.7	62.9	32307.9	69035	50.219 ng/ml
Norfentanyl	4.127	75643	8197.0	40.1	213.8	668292	4.865 ng/ml
Norhydrocodone	3.125	12160	18.1	41.6	362.5	70983	44.715 ng/ml
Noroxycodone	2.982	124617	757.4	41.7	513.6	88000	53.189 ng/ml
O-desmethyl-tramadol	3.425	1032093	83265.8	6.5	4755.6	1112831	49.406 ng/ml
Oxazepam	5.763	29532	540.6	72.3	164.0	37170	47.892 ng/ml
Oxycodone	2.900	306725	1572.8	28.6	2278.6	306026	51.662 ng/ml
Oxymorphone	1.460	121898	6949.3	44.1	1929.5	97989	53.026 ng/ml
Phentermine	3.833	181649	801.3	4.8	428.5	399135	54.430 ng/ml
Promethazine	5.568	752475	787261.8	32.1	1319.0	689248	49.922 ng/ml
Quetiapine	5.586	602678	7736.0	58.5	126059.7	171390	52.915 ng/ml
Sertraline	5.788	229554	136452.8	102.0	98458.1	221906	49.658 ng/ml
Temazepam	5.829	202725	2555.7	30.7	425.6	197917	49.479 ng/ml
Tramadol	4.288	1052728	75231.8	3.5	389.0	1134072	52.523 ng/ml
Trazodone	5.209	629986	172058.8	79.1	326956.7	566524	53.662 ng/ml
Venlafaxine	5.088	929015	63166.5	38.7	10319.7	976921	48.889 ng/ml
Zolpidem	4.965	1073039	606.7	30.7	855.8	949261	51.667 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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 10/8/2019 7:26:19 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	20316	99.0	75.8	22863.6	56364	9.693 ng/ml
7-aminoclonazepam	4.313	214187	21879.9	84.1	443.9	95171	105.089 ng/ml
a-hydroxyalprazolam	5.709	28514	208.3	59.0	555.5	16799	97.142 ng/ml
alpha-PVP	4.412	984147	18321.8	52.5	2722.7	433317	97.461 ng/ml
Alprazolam	5.787	408495	1605.2	110.0	1549.1	150500	94.956 ng/ml
Amphetamine	3.127	837324	8633.1	53.9	6367.6	171436	102.245 ng/ml
Benzoylcegonine	3.931	20083	20825.9	7.7	2492.0	7807	94.773 ng/ml
Buprenorphine	5.852	16239	1588.4	17.1	2240.1	53677	9.088 ng/ml
Bupropion	4.835	1088807	84387.4	60.4	52188.0	441360	100.594 ng/ml
Carisoprodol	5.738	352630	3740.2	57.3	3388.7	169882	100.230 ng/ml
Citalopram	5.272	742622	33029.9	46.1	1138.9	336732	101.673 ng/ml
Clonazepam	5.633	93554	1916.5	33.5	35231.1	17475	102.569 ng/ml
Cocaine	4.307	831138	478103.8	44.8	304.8	669989	97.151 ng/ml
Codeine	2.653	105094	∞	106.5	528.7	53623	101.231 ng/ml
Cyclobenzaprine	5.640	710135	4950.2	9.6	2214.5	277321	101.327 ng/ml
Dextromethorphan	5.311	480218	4170.3	75.9	5291.2	236841	97.917 ng/ml
Dextrorphan	4.166	342007	143462.1	216.0	156906.1	407581	98.983 ng/ml
Diazepam	5.957	313488	5033.1	86.2	6363.0	153523	101.097 ng/ml
Dihydrocodeine	2.627	319088	34335.5	64.8	40318.6	191075	103.604 ng/ml
Diphenhydramine	5.337	2190529	8686.7	33.9	5687.8	1249226	96.010 ng/ml
Doxylamine	4.579	2577642	207763.2	96.2	137914.0	1120402	100.880 ng/ml
EDDP	5.300	378951	38634.7	237.6	15800.2	455638	98.588 ng/ml
Fentanyl	5.148	76729	71365.6	75.0	47772.4	405206	9.645 ng/ml
Fluoxetine	5.721	758865	39700.4	8.8	99008.5	320735	102.026 ng/ml
Hydrocodone	3.079	328443	1436.0	39.4	520.6	200128	101.793 ng/ml
Hydromorphone	1.673	248518	1061965.9	73.6	16783.2	93988	100.237 ng/ml
Ketamine	4.092	764951	99050.9	37.8	9187.2	383281	103.000 ng/ml
Lamotrigine	4.345	76014	1917.9	90.0	5514.0	236841	102.058 ng/ml
Lorazepam	5.761	35092	1051.7	55.0	226.8	150500	95.834 ng/ml
Meprobamate	4.957	120754	184.4	29.6	22109.2	62659	102.437 ng/ml
Methadone	5.669	1462004	112198.5	46.5	30216.6	726581	98.038 ng/ml
Methamphetamine	3.289	505810	244.5	40.3	204.6	199146	103.476 ng/ml
Metoprolol	4.364	208695	11598.9	95.7	449238.7	1249226	105.449 ng/ml



AM #28 Multi-Drug Quant. Results

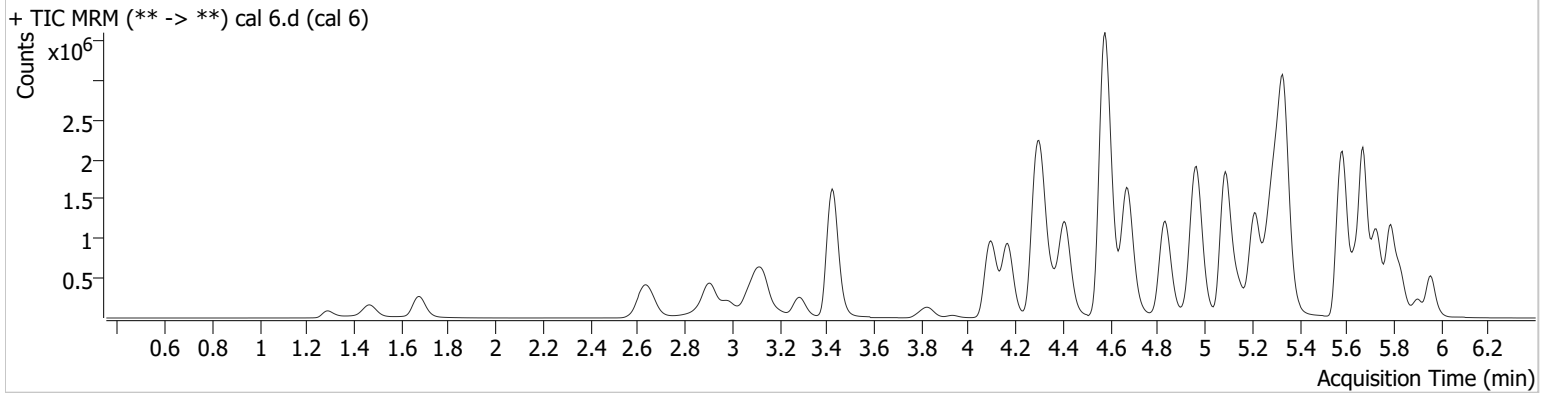
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	1591076	2513.5	46.0	2307.3	726581	93.869 ng/ml
Mitragynine	5.276	187148	203855.4	39.3	377.8	236841	103.799 ng/ml
Morphine	1.287	46763	217466.3	22.5	15842.8	6905	98.342 ng/ml
Norbuprenorphine	5.039	1579	993.5	92.7	928.2	8127	10.779 ng/ml
Nordiazepam	5.907	165618	9275.9	61.0	13862.3	57848	99.796 ng/ml
Norfentanyl	4.127	134578	35505.8	39.5	524.0	598480	9.654 ng/ml
Norhydrocodone	3.130	24879	1545.2	38.9	400.0	66475	96.044 ng/ml
Noroxycodone	2.982	212857	1209.5	41.9	683.4	81321	98.978 ng/ml
O-desmethyl-tramadol	3.425	1844215	152254.1	6.5	7930.0	1022863	95.795 ng/ml
Oxazepam	5.763	45033	795.3	73.8	233.2	28522	94.718 ng/ml
Oxycodone	2.900	561291	2831.3	29.1	1552.0	286812	101.335 ng/ml
Oxymorphone	1.460	217618	507951.8	44.0	636681.1	89023	105.466 ng/ml
Phentermine	3.833	250896	966.7	4.7	537.6	292254	103.799 ng/ml
Promethazine	5.568	1168504	295725.5	31.6	7741.9	533315	100.202 ng/ml
Quetiapine	5.586	1031584	1334826.0	59.8	519911.9	153822	101.386 ng/ml
Sertraline	5.788	333910	7362.2	103.0	8529.1	164673	97.505 ng/ml
Temazepam	5.829	356188	24893.0	30.2	1006.3	171810	100.237 ng/ml
Tramadol	4.288	1844818	7805.0	3.4	241.9	1032996	102.006 ng/ml
Trazodone	5.214	1077407	52728.0	77.4	102679.2	511023	102.627 ng/ml
Venlafaxine	5.088	1644994	129026.7	38.8	1775.0	881394	95.409 ng/ml
Zolpidem	4.965	1929452	2308459.2	30.5	85284.9	862840	102.742 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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 10/8/2019 7:37:07 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	50431	43895.8	74.5	2839.2	54119	25.062 ng/ml
7-aminoclonazepam	4.313	356745	400.9	84.0	17413.4	67177	249.497 ng/ml
a-hydroxyalprazolam	5.709	60761	806.3	60.8	634.3	13981	248.791 ng/ml
alpha-PVP	4.412	2339130	60301.8	52.4	49914.4	408403	245.446 ng/ml
Alprazolam	5.787	887961	9796.3	109.5	2170.5	124928	248.188 ng/ml
Amphetamine	3.127	1481321	1295.5	51.3	7478.5	124536	251.777 ng/ml
Benzoylcegonine	3.931	53759	55490.6	8.1	119.7	8120	244.441 ng/ml
Buprenorphine	5.852	35032	12935.5	16.2	6525.3	41654	24.956 ng/ml
Bupropion	4.835	2487054	329370.1	60.0	1451.9	404849	251.660 ng/ml
Carisoprodol	5.738	736993	955600.7	57.6	1768.4	144647	246.249 ng/ml
Citalopram	5.266	1542920	1248.4	45.4	600.0	277226	257.423 ng/ml
Clonazepam	5.633	205394	4137.1	33.8	511.6	15172	261.366 ng/ml
Cocaine	4.307	1877088	742996.6	44.2	368961.5	591375	248.458 ng/ml
Codeine	2.658	231583	35243.3	104.9	68206.6	46681	257.059 ng/ml
Cyclobenzaprine	5.640	1180777	1126364.3	9.9	3685.8	181928	257.387 ng/ml
Dextromethorphan	5.311	928746	2731.2	76.8	174457.2	179749	249.756 ng/ml
Dextrorphan	4.166	808254	1228083.4	216.4	143983.4	381177	250.107 ng/ml
Diazepam	5.957	699837	4314.3	85.3	12188.1	136848	253.912 ng/ml
Dihydrocodeine	2.627	726967	85123.5	64.2	23831.5	188896	240.172 ng/ml
Diphenhydramine	5.337	4708486	532442.2	33.2	8663.9	1041723	246.500 ng/ml
Doxylamine	4.579	6446761	9215.4	97.2	4704.9	1114586	254.031 ng/ml
EDDP	5.300	930328	6280.7	236.8	32730.3	440837	250.463 ng/ml
Fentanyl	5.148	155721	82323.1	73.0	106615.2	322664	24.527 ng/ml
Fluoxetine	5.721	1164445	97395.3	8.5	149169.4	196818	256.103 ng/ml
Hydrocodone	3.079	794985	3140.0	39.0	940.7	195011	254.020 ng/ml
Hydromorphone	1.678	584720	64810.6	73.5	18504.9	88942	249.304 ng/ml
Ketamine	4.092	1816299	1203.3	37.9	658.8	374756	250.990 ng/ml
Lamotrigine	4.345	151590	6958.3	89.5	2857.5	179749	270.259 ng/ml
Lorazepam	5.761	67714	2239.4	56.6	450.1	124928	224.586 ng/ml
Meprobamate	4.957	249754	190058.0	29.3	46049.8	55173	241.909 ng/ml
Methadone	5.669	3149494	2276.9	46.3	125997.4	617301	248.576 ng/ml
Methamphetamine	3.289	487232	1592.7	41.7	632.2	82056	244.254 ng/ml
Metoprolol	4.364	431757	29627.5	96.2	1449.7	1041723	263.230 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.675	3725287	13974.9	46.2	126501.8	617301	258.460 ng/ml
Mitragynine	5.276	325246	72886.5	39.0	65747.9	179749	237.996 ng/ml
Morphine	1.292	109718	214181.9	21.9	186379.7	6328	252.500 ng/ml
Norbuprenorphine	5.045	3200	1242.2	96.0	466.1	7225	24.848 ng/ml
Nordiazepam	5.902	329965	52113.0	61.5	28349.9	46416	248.348 ng/ml
Norfentanyl	4.127	306497	908.7	40.3	2681.4	533213	24.658 ng/ml
Norhydrocodone	3.130	66680	256.3	42.3	87.4	64013	264.844 ng/ml
Noroxycodone	2.982	492796	539.6	42.7	446.4	75264	248.767 ng/ml
O-desmethyl-tramadol	3.425	4497140	475428.3	6.3	200.9	967439	246.558 ng/ml
Oxazepam	5.763	83304	1380.5	72.8	875.0	20211	246.524 ng/ml
Oxycodone	2.905	1416446	4629.7	29.0	1704.2	290608	253.110 ng/ml
Oxymorphone	1.465	504925	1625067.6	44.2	5069.4	84797	258.786 ng/ml
Phentermine	3.833	399742	1144.1	4.7	612.3	191565	254.122 ng/ml
Promethazine	5.568	2068433	94440.0	31.4	16256.9	374561	252.567 ng/ml
Quetiapine	5.586	2400272	1502166.9	58.1	1522091.3	140082	259.847 ng/ml
Sertraline	5.788	475601	161944.9	102.3	405538.7	92968	246.260 ng/ml
Temazepam	5.829	772599	24625.4	30.7	2257.6	150925	247.641 ng/ml
Tramadol	4.288	4210838	1387709.5	3.4	10735.9	971864	248.953 ng/ml
Trazodone	5.214	2603408	130643.0	77.1	157986.5	495606	257.175 ng/ml
Venlafaxine	5.088	4008629	∞	38.7	3887.5	845552	241.491 ng/ml
Zolpidem	4.965	4654254	1617.5	30.3	68526.1	844558	254.001 ng/ml

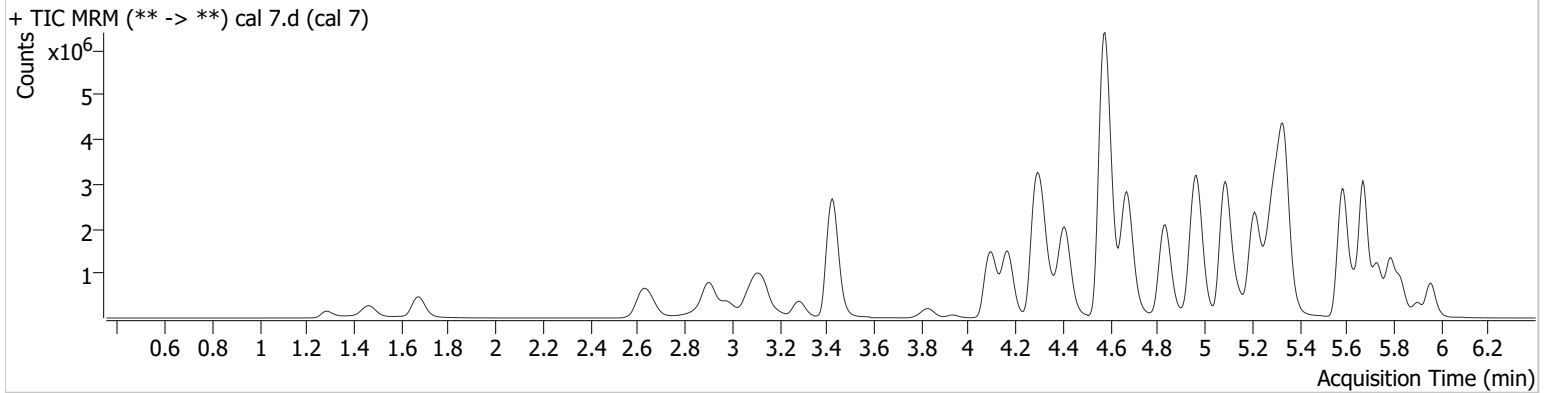
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\am28-27\100819\QuantResults\mdq.batch.bin
Calibration Last Update 10/9/2019 9:20:33 AM

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	10/8/2019 7:47:55 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.188	96306	838.4	73.7	110311.0	49519	52.306 ng/ml
7-aminoclonazepam	4.313	403170	35580.5	87.3	25771.5	42109	450.716 ng/ml
a-hydroxyalprazolam	5.709	108855	2476.1	60.7	794.7	12774	487.849 ng/ml
alpha-PVP	4.412	4252045	342617.7	52.4	172231.8	371953	489.674 ng/ml
Alprazolam	5.787	1444063	3529.6	110.1	2066.6	101222	497.854 ng/ml
Amphetamine	3.127	2326583	14081.6	51.2	10563.5	103641	476.885 ng/ml
Benzoylcegonine	3.931	117529	208387.6	7.8	11827.0	8498	510.981 ng/ml
Buprenorphine	5.857	50932	44603.5	16.4	1597.8	29262	51.463 ng/ml
Bupropion	4.835	4531336	50428.7	60.0	17707.4	373596	497.633 ng/ml
Carisoprodol	5.738	1271608	1954600.9	57.3	7948.2	126921	484.366 ng/ml
Citalopram	5.266	2267426	121821.8	46.1	104690.0	208565	503.363 ng/ml
Clonazepam	5.633	360130	330551.9	33.9	83806.4	13923	500.538 ng/ml
Cocaine	4.307	3106642	356973.4	44.0	133131.1	493615	492.569 ng/ml
Codeine	2.653	386333	26191.4	103.6	53420.0	41638	481.243 ng/ml
Cyclobenzaprine	5.640	1048951	52447.9	9.9	1148.3	83455	498.794 ng/ml
Dextromethorphan	5.311	1265851	55899.3	75.8	2112.2	121951	501.898 ng/ml
Dextrorphan	4.166	1417985	40087.5	218.2	177027.2	338566	493.994 ng/ml
Diazepam	5.957	1136197	4992.8	86.8	21191.1	112997	499.706 ng/ml
Dihydrocodeine	2.622	1265321	2140.2	64.3	1855.5	182022	434.692 ng/ml
Diphenhydramine	5.341	7283013	16020.6	33.6	7928.9	807166	491.463 ng/ml
Doxylamine	4.579	12145137	5156.2	96.9	480885.8	1060928	503.041 ng/ml
EDDP	5.300	1807000	13171.0	235.9	283048.6	430031	498.902 ng/ml
Fentanyl	5.143	229084	70845.1	75.5	175675.0	230832	50.398 ng/ml
Fluoxetine	5.721	615841	10882.9	8.7	37754.5	53798	496.130 ng/ml
Hydrocodone	3.079	1458447	1248.2	39.8	1163.9	185869	489.666 ng/ml
Hydromorphone	1.673	1101205	748493.3	74.0	14425.4	84825	492.360 ng/ml
Ketamine	4.092	3287702	1029110.0	37.8	17132.4	345554	493.297 ng/ml
Lamotrigine	4.340	218836	7775.3	88.4	3098.6	121951	576.500 ng/ml
Lorazepam	5.761	114324	3189.1	57.4	1112.4	101222	469.467 ng/ml
Meprobamate	4.957	385134	198794.3	29.1	79.6	48875	421.816 ng/ml
Methadone	5.669	5084856	37509.8	45.9	20122.3	495405	500.067 ng/ml
Methamphetamine	3.284	707135	3455.6	40.9	1402.9	64011	455.939 ng/ml
Metoprolol	4.364	652032	2576.7	96.7	321567.1	807166	514.080 ng/ml



AM #28 Multi-Drug Quant. Results

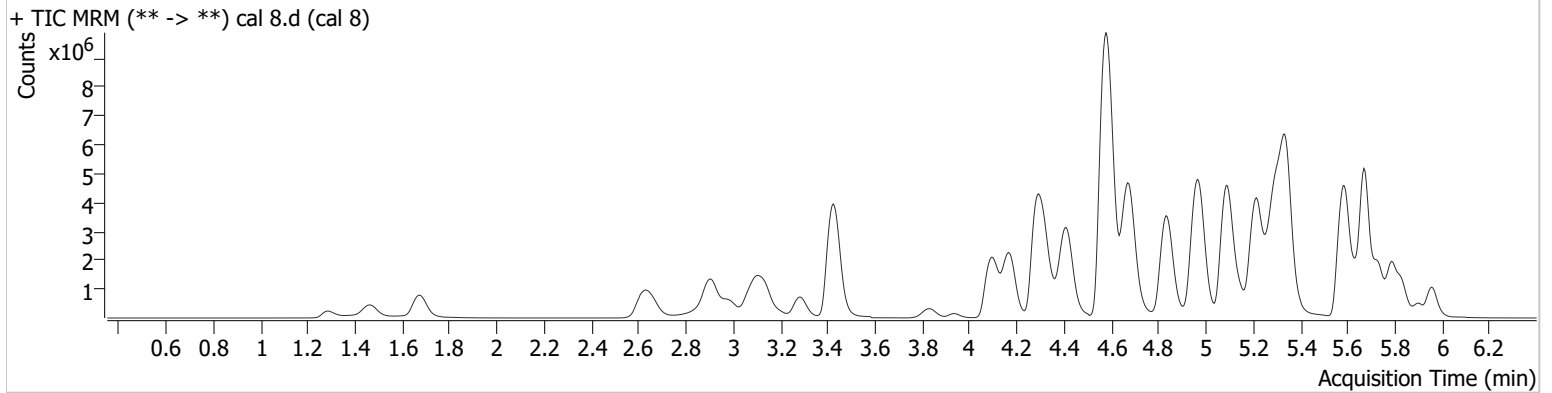
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.671	6612148	3069.9	45.9	3642.6	495405	571.467 ng/ml
Mitragynine	5.271	403437	322430.6	39.0	152073.6	121951	435.323 ng/ml
Morphine	1.287	198060	433687.4	22.0	547863.2	5544	520.808 ng/ml
Norbuprenorphine	5.039	4968	340.7	96.5	298.9	5771	48.515 ng/ml
Nordiazepam	5.902	511534	7422.8	61.4	12462.8	36717	487.075 ng/ml
Norfentanyl	4.127	520607	945.5	40.5	13671.2	433776	51.472 ng/ml
Norhydrocodone	3.130	121290	1006.5	41.7	588.9	56859	540.896 ng/ml
Noroxycodone	2.982	921533	815.2	40.5	758.0	68627	511.013 ng/ml
O-desmethyl-tramadol	3.425	8398287	1484.9	6.2	31445.3	895637	497.082 ng/ml
Oxazepam	5.763	137000	906.6	75.9	728.6	16604	493.043 ng/ml
Oxycodone	2.900	2759786	13260.4	29.1	1477.1	285444	502.558 ng/ml
Oxymorphone	1.460	934512	2808726.8	43.7	2408952.6	80002	508.934 ng/ml
Phentermine	3.833	700336	894.8	4.8	2314.0	183165	466.691 ng/ml
Promethazine	5.568	1797335	32008.6	32.1	76513.3	171499	479.330 ng/ml
Quetiapine	5.586	4349320	1550009.0	59.0	1447040.4	136660	483.078 ng/ml
Sertraline	5.788	174770	457.8	102.0	47731.7	17403	483.579 ng/ml
Temazepam	5.829	1328315	16551.0	30.5	10145.8	127673	503.400 ng/ml
Tramadol	4.283	7131116	340113.3	3.3	17312.3	840564	488.454 ng/ml
Trazodone	5.209	4760327	233163.8	77.8	863.1	484717	481.669 ng/ml
Venlafaxine	5.088	7478659	102671.5	37.7	137847.9	767514	495.751 ng/ml
Zolpidem	4.965	8571135	954925.9	29.7	210309.9	809179	488.715 ng/ml

AM #28 Multi-Drug Quant. Results

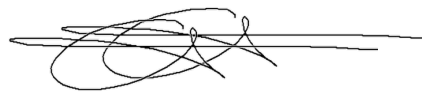
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Calibration Last Update 10/9/2019 9:20:33 AM

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 10/8/2019 7:58:42 PM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.194	169919	16409.9	74.6	162982.8	41876	109.135 ng/ml
7-aminoclonazepam	4.318	412212	506.2	83.7	1311.8	21524	902.664 ng/ml
a-hydroxyalprazolam	5.709	164965	1225.4	60.4	968.8	9447	999.771 ng/ml
alpha-PVP	4.412	7253265	4165.0	51.8	320879.4	305132	1017.985 ng/ml
Alprazolam	5.787	2092803	6372.6	110.2	1337.0	72283	1010.072 ng/ml
Amphetamine	3.127	3369737	662.0	51.8	21746.6	82182	872.649 ng/ml
Benzoylcegonine	3.936	279413	390472.0	7.7	1317.6	9318	1108.232 ng/ml
Buprenorphine	5.857	106824	4496.3	16.6	16218.0	23541	133.893 ng/ml
Bupropion	4.835	8250921	314967.1	59.0	67902.3	346017	979.092 ng/ml
Carisoprodol	5.738	1720867	1138587.2	57.0	20288.6	83026	1002.202 ng/ml
Citalopram	5.266	3435720	214046.8	46.3	101985.2	161221	987.229 ng/ml
Clonazepam	5.633	468469	39934.8	33.5	108958.2	9216	984.911 ng/ml
Cocaine	4.312	4547187	8213.8	43.7	6746.8	351787	1011.563 ng/ml
Codeine	2.658	597154	524.0	104.0	71111.0	32706	947.495 ng/ml
Cyclobenzaprine	5.640	2180141	115183.8	9.8	1556.2	87276	991.672 ng/ml
Dextromethorphan	5.316	1953927	59192.9	74.8	176379.5	92032	1026.729 ng/ml
Dextrorphan	4.171	2379309	163741.5	216.9	141610.8	278787	1006.623 ng/ml
Diazepam	5.957	1703207	27760.9	86.2	3978.1	85170	994.298 ng/ml
Dihydrocodeine	2.617	1997190	74764.4	64.1	65057.9	163942	762.601 ng/ml
Diphenhydramine	5.342	11472383	3092.3	33.1	2201.4	613673	1017.596 ng/ml
Doxylamine	4.579	20360015	799665.3	97.5	695855.1	939464	952.565 ng/ml
EDDP	5.300	3285144	17156.7	243.3	7552.8	386226	1010.080 ng/ml
Fentanyl	5.148	593440	657947.6	77.1	365683.4	280158	107.528 ng/ml
Fluoxetine	5.721	1401445	142251.2	8.6	87981.2	61144	994.043 ng/ml
Hydrocodone	3.079	2520408	∞	39.1	1152.6	157081	1002.119 ng/ml
Hydromorphone	1.673	1999855	9463.9	69.8	25494.4	76320	993.852 ng/ml
Ketamine	4.094	5258364	667667.5	37.5	9382.6	291873	934.631 ng/ml
Lamotrigine	4.345	251555	398.8	89.3	9218.4	92032	878.802 ng/ml
Lorazepam	5.761	186822	8662.1	57.7	507.3	72283	1076.081 ng/ml
Meprobamate	4.957	499043	240.8	29.5	26197.8	36926	724.136 ng/ml
Methadone	5.673	9516571	455415.5	46.1	133720.6	462022	1003.518 ng/ml
Methamphetamine	3.284	1411263	1450.1	40.3	3577.7	64154	909.647 ng/ml
Metoprolol	4.369	866984	27954.0	96.1	17433.6	613673	899.899 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.676	11715639	11540.7	45.4	253092.9	462022	1085.589 ng/ml
Mitragynine	5.271	698142	3974.6	40.9	667.5	92032	998.527 ng/ml
Morphine	1.287	333253	1539492.3	22.2	317271.2	5168	940.409 ng/ml
Norbuprenorphine	5.039	9696	3777.7	98.2	3406.5	5433	100.820 ng/ml
Nordiazepam	5.902	738997	22131.2	60.9	614898.9	25810	1001.392 ng/ml
Norfentanyl	4.127	787649	287.1	40.3	22493.1	309730	109.049 ng/ml
Norhydrocodone	3.130	209226	3950.3	41.2	1435.1	45460	1165.417 ng/ml
Noroxycodone	2.982	1490068	922.7	42.0	224.3	57431	988.083 ng/ml
O-desmethyl-tramadol	3.425	14002369	393451.9	6.1	54167.3	733891	1011.162 ng/ml
Oxazepam	5.763	219655	4813.4	72.2	896.9	12896	1017.283 ng/ml
Oxycodone	2.905	5060265	∞	28.8	2530.2	265278	992.002 ng/ml
Oxymorphone	1.460	1616663	546.7	44.0	2402.5	72395	974.131 ng/ml
Phentermine	3.833	1191185	1404.9	4.6	408.7	168864	862.083 ng/ml
Promethazine	5.568	4231660	19951.8	31.0	91153.7	190062	1018.329 ng/ml
Quetiapine	5.591	6861566	33992.6	57.0	3606993.9	115560	901.714 ng/ml
Sertraline	5.793	364459	444392.1	101.3	77779.3	16106	1089.886 ng/ml
Temazepam	5.829	2057555	864256.3	30.4	2834.5	97734	1018.727 ng/ml
Tramadol	4.285	10778559	504130.7	3.4	17342.6	673708	922.059 ng/ml
Trazodone	5.214	8580416	736756.7	77.7	217356.2	496865	847.724 ng/ml
Venlafaxine	5.088	12525430	729790.7	37.0	3900.6	625320	1018.507 ng/ml
Zolpidem	4.967	14215172	306567.2	29.4	260363.0	702018	934.754 ng/ml