


Worklist: 3446

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2019-2092	1	153745	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2155	2	153746	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2223	1	153747	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2231	3	153748	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1420	1	153749	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1424	1	153750	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1425	1	153751	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1426	2	153752	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1447	1	153753	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1448	1	153754	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1463	1	153755	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1487	1	153756	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1491	1	153757	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1496	1	153758	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1499	1	153759	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1500	1	153760	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1510	1	153761	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1511	1	153762	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1515	1	153763	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

Extraction Date: 6/6/19 Analyst: Sarah Pickle
 Plate lot#: 190124 Item #: IDP-111 Plate Expiration: 07/24/19

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

Blank Blood Lot: 445283-2 **Column:** ~~Agilent 120 EC-C18 (2.1x 100-4um) Φ~~
LCMS-QQ ID: 069901 Agilent 120 EC-C18 (2.1 x 100-2.7um) 10/2/19

Pre-Analytic:

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

Analytic:

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

Post-Analytic

- 1. Create batch and process data.
 Worklist path: *D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP* Batch Name: *MDQ SP*
- 2. Make necessary changes to integration limits
- 3. Integration linear and R² values ≥ 0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Y / N _____ Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: **Curve Range Limited:** *amphetamine 5-500, lamotrigine 5-500, lorazepam 25-1000, norhydrocodone 5-500, oxazepam 25-1000 – reported qualitatively*
QC 10 for cyclobenzaprine not evaluated due to peak cutting off
Did Not Evaluate: *EDDP and sertraline due to internal standard response variability*



Idaho State Police Forensic Services

AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 121218)

100 ul each 1 mg/mL stock solution in 9600 ul MeOH

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	177145	
Fluoxetine	Cerilliant	FN06281603	07/31/2021
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	12/12/18		
Prepared By:	Sarah Pickle		
Expires:	12/12/19		

Blood External Control Solution (Lot: WS121218)

50 ul of methanol external control solution was added to 9950 ul of blood.

Approximately 50ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-1
Methanol External Control Solution		121218
Prepared:	12/12/18	
Prepared by:	Sarah Pickle	
Expires:	12/12/19	

AM #28 Multi-Drug Quant. Results



Batch results

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin

Calibration Last Update

6/10/2019 10:51:43 AM

Instrument

Falco

Data File

SP Negative.d

Type

Sample

Sample

SP Negative

Acq. Method

MDQ P1 Combined 011619.m

Operator

Comment

Sample Position

P2-E2

Injection Volume

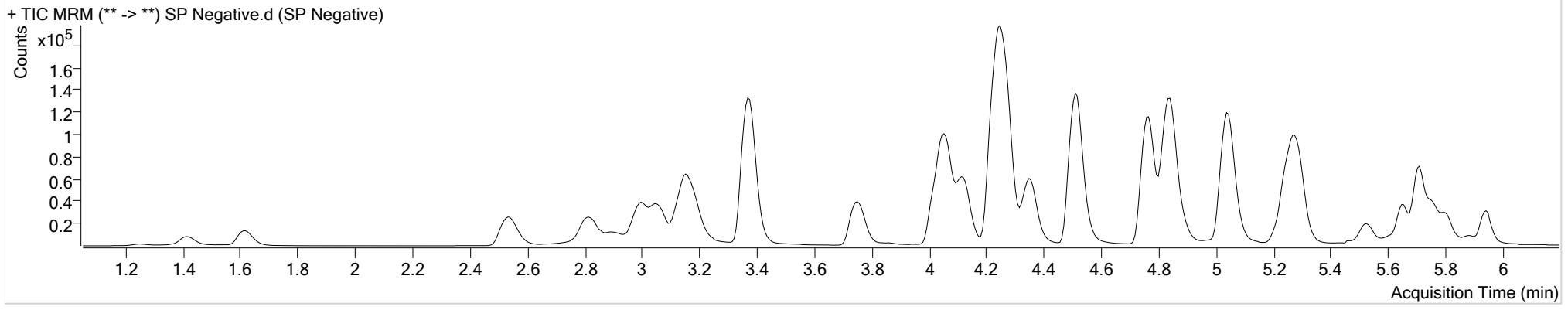
1

Acq. Date-Time

6/7/2019 3:37:01 AM

Sample Info.

Sample Chromatogram



AM #28 Multi-Drug Quant. Results

**Batch results**

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin

Calibration Last Update

6/10/2019 10:51:43 AM

Instrument

Falco

Data File

SP External Control.d

Type

Sample

Sample

SP External Control

Acq. Method

MDQ P1 Combined 011619.m

Operator**Comment****Sample Position**

P2-F2

Injection Volume

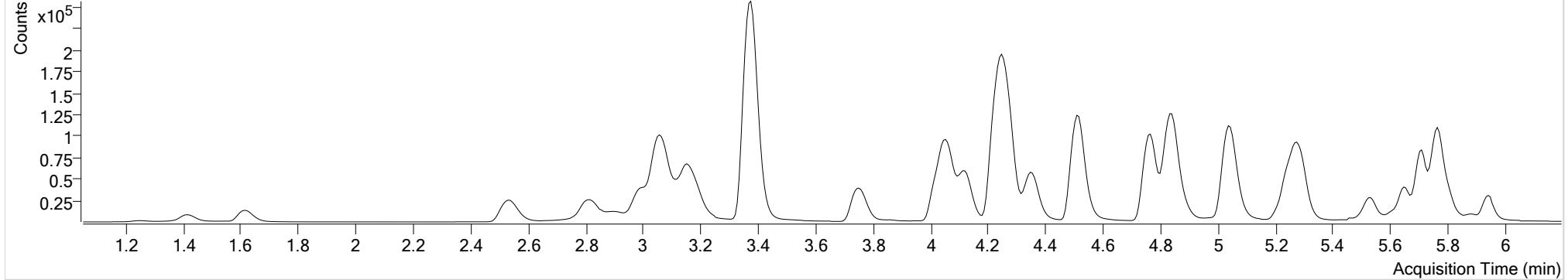
1

Acq. Date-Time

6/7/2019 3:57:56 AM

Sample Info.**Sample Chromatogram**

+ TIC MRM (** -> **) SP External Control.d (SP External Control)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	100456	1791.86	105.8	1573.39	66269	45.5909 ng/ml
Amphetamine	3.069	185023	245.31	55.9	1745.89	58984	45.0309 ng/ml
Fluoxetine	5.711	23962	1199.34	9.2	115.52	25645	36.2319 ng/ml
O-desmethyl-tramadol	3.379	438814	25668.15	6.6	6586.20	467741	43.0772 ng/ml

AM #28 Multi-Drug Quant. Results



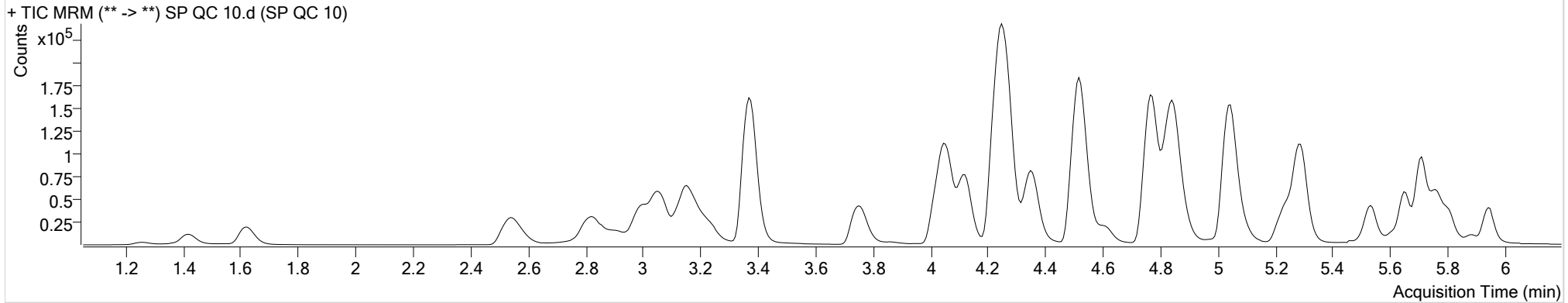
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-A2
Injection Volume 1
Acq. Date-Time 6/7/2019 1:41:55 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	3582	∞	69.8	262.90	114901	0.9651 ng/ml
7-aminoclonazepam	4.253	10670	∞	82.5	839.73	43328	10.4308 ng/ml
a-hydroxyalprazolam	5.689	3506	68.78	66.2	160.17	16745	10.1473 ng/ml
alpha-PVP	4.366	43146	5044.91	50.9	526.83	190476	10.1224 ng/ml
Alprazolam	5.766	23043	461.82	110.6	∞	70529	9.9692 ng/ml
Amphetamine	3.069	48669	401.20	55.3	486.08	62258	10.6783 ng/ml
Benzoylcegonine	3.883	1422	345.05	8.7	18.31	5311	9.9388 ng/ml
Buprenorphine	5.735	1834	54.48	17.7	28.80	73693	0.9639 ng/ml
Bupropion	4.782	129072	∞	57.8	∞	422801	10.5866 ng/ml
Carisoprodol	5.714	21081	76397.48	56.1	36.01	107281	10.2496 ng/ml
Citalopram	5.229	15691	273.71	41.4	145.95	64786	10.4232 ng/ml
Clonazepam	5.602	2035	87.33	34.0	547.03	3113	10.6027 ng/ml
Cocaine	4.266	42542	433.48	43.9	17070.43	407161	9.8029 ng/ml
Codeine	2.590	6142	368.08	101.1	1329.96	26921	10.1599 ng/ml
Cyclobenzaprine	5.625	5987	185.63	11.6	143.51	18526	12.6633 ng/ml
Dextromethorphan	5.265	8696	145.36	80.8	358.62	39426	10.4138 ng/ml
Dextrorphan	4.122	16360	773.13	203.4	4406.08	177328	10.6360 ng/ml
Diazepam	5.952	15766	451.55	89.9	564.35	69607	10.4562 ng/ml

Not evaluated due to peak cut off

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.569	16462	6548.14	68.0	3465.11	86995	10.2125 ng/ml	
Diphenhydramine	5.292	48137	∞	34.5	548.00	236355	10.6959 ng/ml	
Doxylamine	4.529	112290	8806.61	96.3	13199.50	477009	10.1217 ng/ml	
EDDP	5.257	8096	∞	43.0	1928.62	45709	8.9892 ng/ml	Did not evaluate
Fentanyl	5.079	1144	198.38	71.6	1041.41	44936	1.2814 ng/ml	
Fluoxetine	5.711	6837	142.16	8.6	∞	17836	14.6383 ng/ml	
Hydrocodone	3.032	17132	84.11	39.8	72.85	93254	10.9030 ng/ml	
Hydromorphone	1.628	13915	1259.35	76.1	404.34	50479	9.9904 ng/ml	
Ketamine	4.042	38666	398.48	37.1	339.95	176536	10.1261 ng/ml	
Lamotrigine	4.284	3973	566.29	83.5	∞	176536	9.5197 ng/ml	
Lorazepam	5.737	2447	120.57	52.3	3.54 Low	3113	10.5406 ng/ml	Outside curve range
Meprobamate	4.906	7420	2618.66	29.0	208.12	34719	10.0226 ng/ml	
Methadone	5.656	21974	2830.00	53.2	359.09	98030	10.9493 ng/ml	
Methamphetamine	3.231	47302	151.75	40.4	221.31	170894	10.7919 ng/ml	
Metoprolol	4.329	12034	2527.26	92.4	∞	458109	9.8775 ng/ml	
Mirtazapine	4.610	35754	6963.98	46.5	5370.24	190476	7.1956 ng/ml	
Mitragynine	5.214	3637	211.36	38.7	170.59	98030	8.5838 ng/ml	
Morphine	1.266	3498	2736.33	24.8	612.47	4722	9.2722 ng/ml	
Norbuprenorphine	4.988	254	13.62	96.3	53.21	7812	1.0978 ng/ml	
Nordiazepam	5.891	3319	2869.77	57.7	445.88	10537	9.4342 ng/ml	
Norfentanyl	4.084	6103	785.86	35.9	86.68	258239	1.0028 ng/ml	
Norhydrocodone	3.080	3429	62.98	45.0	156.00	115317	8.1420 ng/ml	
Noroxycodone	2.928	10120	87.68	46.9	375.93	35352	10.5753 ng/ml	
O-desmethyl-tramadol	3.379	105128	1126.20	7.0	647.24	467330	10.2279 ng/ml	
Oxazepam	5.740	2044	9.87 Low	62.7	2.70 Low	7348	10.0165 ng/ml	Outside curve range
Oxycodone	2.847	29346	710.95	30.1	42.64	118184	10.2841 ng/ml	
Oxymorphone	1.423	8894	192.30	48.0	465.09	33391	10.0468 ng/ml	
Phentermine	3.787	15196	129.02	3.5	15.39	153607	10.2153 ng/ml	
Promethazine	5.542	10732	2185.68	28.7	76.26	37457	11.9348 ng/ml	
Quetiapine	5.531	25536	2757.25	55.4	92507.21	31151	11.9038 ng/ml	
Temazepam	5.814	12524	167.00	30.0	13.40	55092	10.1951 ng/ml	
Tramadol	4.242	99626	6504.94	3.3	58.47	458109	10.7469 ng/ml	
Trazodone	5.092	17286	249.79	73.7	313.40	64212	11.5011 ng/ml	
Venlafaxine	5.040	68897	1149.63	39.4	312.57	338997	9.9424 ng/ml	
Zolpidem	4.862	93856	6951.53	30.5	34350.39	436416	10.3286 ng/ml	

AM #28 Multi-Drug Quant. Results



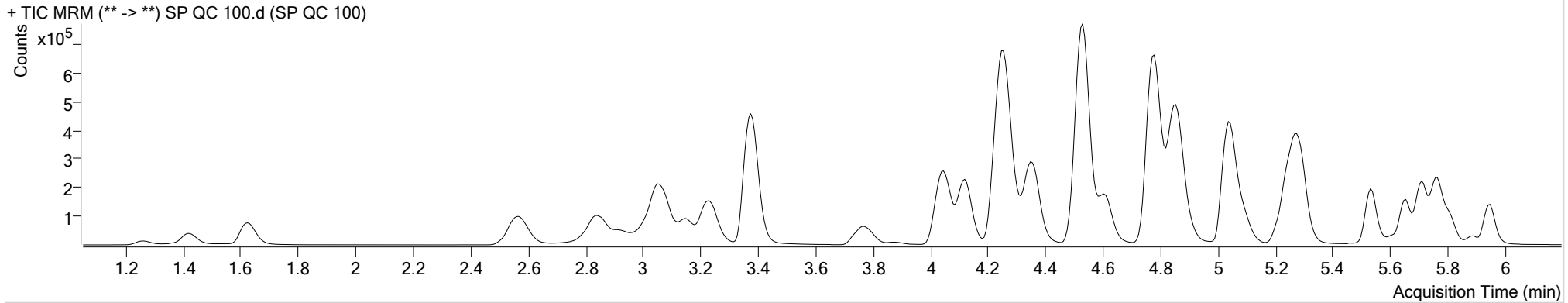
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-B2
Injection Volume 1
Acq. Date-Time 6/7/2019 2:02:49 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	35596	∞	72.9	670.70	119526	8.8247 ng/ml
7-aminoclonazepam	4.253	107976	3249.57	81.4	8112.23	44941	109.0428 ng/ml
a-hydroxyalprazolam	5.689	36140	354.70	63.4	947.72	17080	101.6984 ng/ml
alpha-PVP	4.366	445581	19338.47	51.0	2711.56	198920	100.0229 ng/ml
Alprazolam	5.766	233282	2200.29	106.1	2452.99	70461	99.3583 ng/ml
Amphetamine	3.069	364324	19202.52	54.4	4630.15	50923	103.6328 ng/ml
Benzoylcegonine	3.876	13911	453.61	7.7	174.34	5442	99.7203 ng/ml
Buprenorphine	5.735	13902	327.48	17.9	422.58	62671	9.2544 ng/ml
Bupropion	4.782	1294393	6199.21	58.2	19796.46	435177	108.1951 ng/ml
Carisoprodol	5.714	206543	822.76	55.8	1141.05	106398	102.3988 ng/ml
Citalopram	5.222	143378	1089.94	42.0	837.80	61518	103.7314 ng/ml
Clonazepam	5.602	19866	∞	33.9	1207.24	3028	117.6553 ng/ml
Cocaine	4.266	441552	33029.51	43.1	21609.54	427099	100.5026 ng/ml
Codeine	2.590	59092	4694.23	101.2	753.14	26990	101.3858 ng/ml
Cyclobenzaprine	5.618	33161	36498.11	10.1	248.16	14212	92.1226 ng/ml
Dextromethorphan	5.265	70815	988.39	80.1	17702.46	35756	95.8110 ng/ml
Dextrorphan	4.122	168822	20010.55	204.3	133769.67	186104	107.6366 ng/ml
Diazepam	5.952	162449	1344.96	87.5	743.98	72931	103.7396 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.562	162277	21503.60	68.6	14919.03	90664	102.1784 ng/ml	
Diphenhydramine	5.292	437756	2249.52	34.3	8535.33	224940	103.8128 ng/ml	
Doxylamine	4.529	1181721	66649.39	98.2	67327.66	515249	101.6776 ng/ml	
EDDP	5.257	344375	123733.73	42.6	1489.31	184587	97.1294 ng/ml	Did not evaluate
Fentanyl	5.079	6995	∞	76.3	112.19	35078	9.8135 ng/ml	
Fluoxetine	5.711	24021	468.31	9.4	∞	10266	91.3086 ng/ml	
Hydrocodone	3.032	178446	∞	39.9	∞	102695	106.5612 ng/ml	
Hydromorphone	1.628	137786	598.71	77.2	1948.79	52417	98.2100 ng/ml	
Ketamine	4.042	392150	1876.42	37.4	851.31	184993	101.0298 ng/ml	
Lamotrigine	4.290	41858	2499.23	79.4	5390.26	184993	103.2767 ng/ml	
Lorazepam	5.737	23679	219.95	56.7	50.19	3028	127.7361 ng/ml	
Meprobamate	4.906	73077	3447.54	28.0	1688.46	35064	97.3956 ng/ml	
Methadone	5.656	194217	5525.63	50.3	1986.44	91364	105.0969 ng/ml	
Methamphetamine	3.237	412379	1389.45	41.5	1009.24	174401	100.9059 ng/ml	
Metoprolol	4.322	122607	24624.10	91.6	∞	493091	100.1041 ng/ml	
Mirtazapine	4.610	345200	32203.94	47.7	16281.95	198920	57.6750 ng/ml	
Mitragynine	5.208	29384	22524.02	39.2	9297.60	91364	71.5299 ng/ml	
Morphine	1.266	33899	2485.29	23.8	7875.44	4502	95.7461 ng/ml	
Norbuprenorphine	4.988	1809	1935.80	91.5	980.96	7383	10.7308 ng/ml	
Nordiazepam	5.891	35347	825.21	57.8	925.54	11091	99.1353 ng/ml	
Norfentanyl	4.084	65662	1720.58	36.2	639.98	280108	9.8711 ng/ml	
Norhydrocodone	3.080	51830	465.48	42.7	213.39	128372	87.6283 ng/ml	
Noroxycodone	2.928	101853	∞	47.2	123.11	38008	100.2385 ng/ml	
O-desmethyl-tramadol	3.379	1089776	34102.62	6.6	1953.78	493178	101.6431 ng/ml	
Oxazepam	5.747	19707	77.49	68.1	47.16	7743	98.6752 ng/ml	
Oxycodone	2.847	290929	∞	30.9	114.30	120769	103.9181 ng/ml	
Oxymorphone	1.417	87916	375.57	46.5	543.17	32259	106.6601 ng/ml	
Phentermine	3.787	143906	1497.53	3.7	171.58	150826	105.4993 ng/ml	
Promethazine	5.542	64253	1735.94	29.5	471.21	27008	99.7434 ng/ml	
Quetiapine	5.531	254675	2893.64	60.2	13514.77	34439	111.5598 ng/ml	
Sertraline	5.780	11733	259.30	87.9	∞	5244	90.9137 ng/ml	Did not evaluate
Temazepam	5.814	127016	∞	30.1	295.98	57930	97.7263 ng/ml	
Tramadol	4.242	972806	43473.68	3.6	1769.45	493091	103.1348 ng/ml	
Trazodone	5.092	155769	681.60	77.6	10300.30	61767	97.3513 ng/ml	
Venlafaxine	5.040	740076	17726.00	38.6	2328.25	357897	102.5546 ng/ml	
Zolpidem	4.862	980208	1410.10	31.5	30352.95	469420	102.0708 ng/ml	

AM #28 Multi-Drug Quant. Results



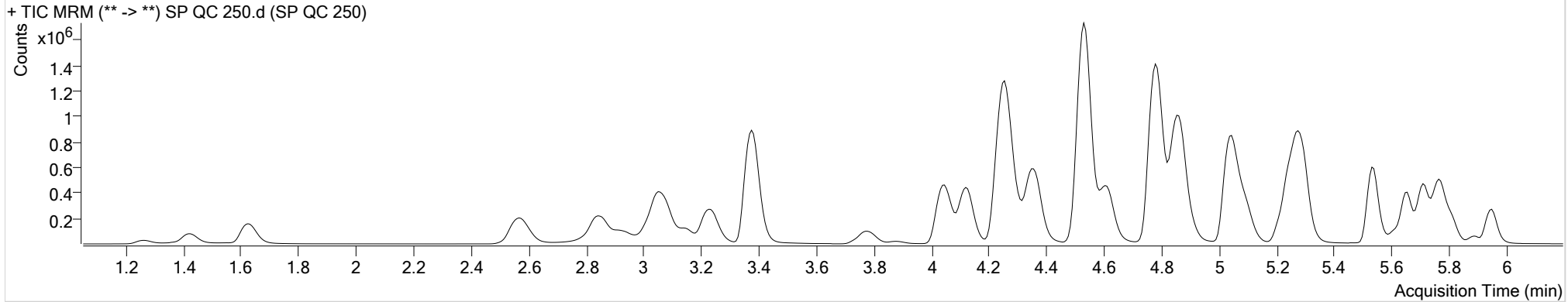
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-C2
Injection Volume 1
Acq. Date-Time 6/7/2019 2:23:45 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	86417	∞	72.1	1098.67	114149	22.3613 ng/ml
7-aminoclonazepam	4.253	233301	8837.05	80.4	12475.51	41788	254.4828 ng/ml
a-hydroxyalprazolam	5.689	84325	1302.35	63.6	2314.47	16162	250.6314 ng/ml
alpha-PVP	4.366	1050276	102695.70	51.5	18594.92	191070	245.4365 ng/ml
Alprazolam	5.766	526726	48842.95	104.3	∞	62331	253.3204 ng/ml
Amphetamine	3.069	748727	6620.38	54.6	10369.90	44301	245.7991 ng/ml
Benzoylcegonine	3.876	34601	2605.24	7.5	1358.50	5342	253.5456 ng/ml
Buprenorphine	5.735	33722	2445.70	16.8	408.26	61020	23.1801 ng/ml
Bupropion	4.782	3013552	118807.31	58.8	40573.47	410075	268.1636 ng/ml
Carisoprodol	5.721	467390	1170.95	54.9	2472.37	100871	244.5959 ng/ml
Citalopram	5.222	393527	33966.11	43.1	4796.64	70921	247.5110 ng/ml
Clonazepam	5.602	48166	221.68	35.4	1885.11	3103	280.0379 ng/ml
Cocaine	4.266	1021649	1109691.13	43.1	43052.35	402870	247.0978 ng/ml
Codeine	2.590	134425	2088.26	102.5	1172.50	24526	254.4853 ng/ml
Cyclobenzaprine	5.625	178424	95110.10	10.6	1488.38	29032	242.8207 ng/ml
Dextromethorphan	5.265	212243	28809.81	79.4	1817.41	42931	239.5940 ng/ml
Dextrorphan	4.122	397518	22281.47	204.9	64869.63	178946	264.0868 ng/ml
Diazepam	5.952	364119	2516.98	87.4	2943.64	66253	256.1154 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.562	377025	48072.58	68.5	61581.67	87572	246.7050 ng/ml	
Diphenhydramine	5.292	1212545	3522.75	34.6	840.99	258445	250.5390 ng/ml	
Doxylamine	4.529	2904920	5516.58	97.3	110086.50	512408	251.8472 ng/ml	
EDDP	5.257	900424	1836.99	42.5	18658.93	196899	238.4534 ng/ml	Did not evaluate
Fentanyl	5.079	24182	514.21	79.6	15299.88	50467	23.5345 ng/ml	
Fluoxetine	5.711	180279	1103.76	9.4	20596.70	30697	229.7534 ng/ml	
Hydrocodone	3.025	413214	1022.15	41.5	∞	99311	255.7288 ng/ml	
Hydromorphone	1.628	320803	1101.75	77.7	1631.57	48812	246.0605 ng/ml	
Ketamine	4.042	930093	7777.55	37.4	2132.34	179480	247.4850 ng/ml	
Lamotrigine	4.290	95761	11255.38	79.4	1164.16	179480	244.6670 ng/ml	
Lorazepam	5.737	55286	475.14	54.0	115.98	3103	294.2762 ng/ml	
Meprobamate	4.906	176440	1656.77	28.2	1965.96	32928	250.3448 ng/ml	
Methadone	5.656	583744	19513.32	50.8	2396.62	112535	256.6699 ng/ml	
Methamphetamine	3.237	762424	2939.55	41.0	1576.35	137281	238.5617 ng/ml	
Metoprolol	4.329	272820	42507.70	90.2	∞	456192	241.8603 ng/ml	
Mirtazapine	4.610	938870	148451.62	47.5	∞	191070	161.3428 ng/ml	
Mitragynine	5.214	93810	62990.98	38.9	305916.51	112535	184.8047 ng/ml	
Morphine	1.266	75800	17492.30	24.2	2269.51	4188	230.3610 ng/ml	
Norbuprenorphine	4.988	4628	586.19	95.6	252.42	7611	27.1999 ng/ml	
Nordiazepam	5.891	84007	2222.75	55.9	1185.65	10821	242.0693 ng/ml	
Norfentanyl	4.084	154424	2201.88	36.0	1034.21	263396	24.6748 ng/ml	
Norhydrocodone	3.080	143326	∞	42.5	1896.72	122963	249.5413 ng/ml	
Noroxycodone	2.928	229884	424.43	49.4	∞	35802	240.3843 ng/ml	
O-desmethyl-tramadol	3.379	2608892	∞	6.6	10189.72	478939	250.7604 ng/ml	
Oxazepam	5.747	46612	212.64	70.8	196.69	7193	252.5671 ng/ml	
Oxycodone	2.840	702526	∞	32.0	97.85	123127	246.7837 ng/ml	
Oxymorphone	1.423	199293	1271.37	48.3	1121.78	30763	254.1147 ng/ml	
Phentermine	3.787	304534	5135.97	3.8	539.96	134319	251.8053 ng/ml	
Promethazine	5.542	350718	1578.39	28.9	6725.81	59863	245.7561 ng/ml	
Quetiapine	5.531	735574	2017.67	60.2	6694.55	39522	281.5669 ng/ml	
Sertraline	5.780	92425	1406.79	90.6	3667.23	15212	247.4214 ng/ml	Did not evaluate
Temazepam	5.814	292223	1169.81	30.6	296.21	55819	233.2411 ng/ml	
Tramadol	4.242	2252893	238799.90	3.6	∞	456192	259.2163 ng/ml	
Trazodone	5.092	508189	1204.31	78.0	1202.20	78274	248.6702 ng/ml	
Venlafaxine	5.040	1778428	∞	39.1	∞	355906	248.0366 ng/ml	
Zolpidem	4.862	2375680	∞	31.5	44649.28	465968	249.5120 ng/ml	

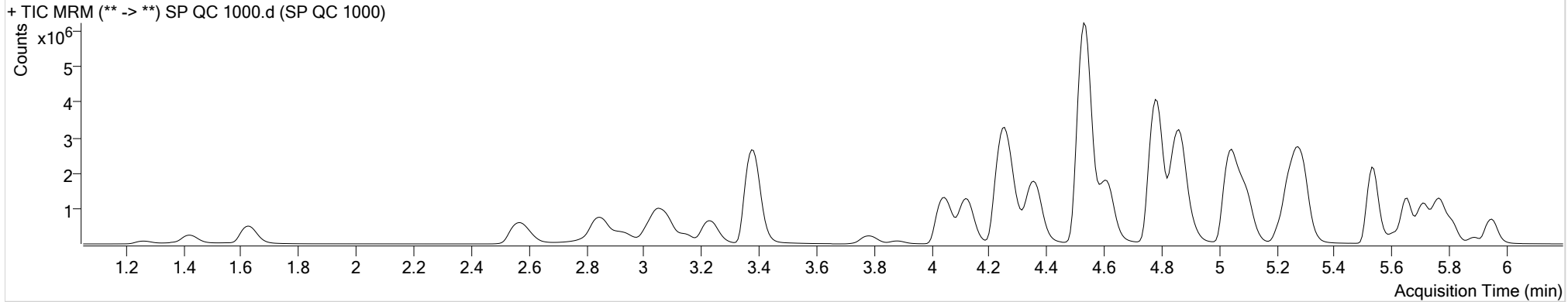
AM #28 Multi-Drug Quant. Results



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Calibration Last Update 6/10/2019 10:51:43 AM

Instrument Falco **Data File** SP QC 1000.d
Type QC **Sample** SP QC 1000
Acq. Method MDQ P1 Combined 011619.m **Operator**
Sample Position P2-D2 **Comment**
Injection Volume 1
Acq. Date-Time 6/7/2019 2:44:40 AM
Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
6-MAM	3.151	322784	123541.02	72.6	∞	101441	93.8395 ng/ml	
7-aminoclonazepam	4.253	540685	19360.63	81.8	18300.77	29265	844.0885 ng/ml	
a-hydroxyalprazolam	5.689	303053	2234.92	64.2	709.91	14339	1014.9652 ng/ml	
alpha-PVP	4.366	3568138	145329.33	51.4	81820.26	161051	989.2280 ng/ml	
Alprazolam	5.766	1532886	3133.61	102.8	∞	43625	1052.7473 ng/ml	
Amphetamine	3.069	1693354	22867.83	54.9	19713.59	29092	848.3046 ng/ml	Outside curve range
Benzoylcegonine	3.883	158762	97476.78	7.5	1946.46	5504	1131.1492 ng/ml	
Buprenorphine	5.735	63566	972.01	16.7	1121.86	29368	91.0289 ng/ml	
Bupropion	4.782	9150825	610407.01	58.7	88663.04	317817	1052.3589 ng/ml	
Carisoprodol	5.714	1383018	624274.52	55.8	10827.38	74580	979.2952 ng/ml	
Citalopram	5.222	1273656	1879.61	42.5	21450.81	57819	983.7803 ng/ml	
Clonazepam	5.602	212029	3318.33	34.5	3271.62	3652	1050.8175 ng/ml	
Cocaine	4.266	3283292	407245.58	43.3	697148.49	325518	983.9761 ng/ml	
Codeine	2.597	423347	5639.79	101.6	41213.86	20506	959.7992 ng/ml	
Cyclobenzaprine	5.618	492692	73440.07	9.9	500.78	19924	977.3681 ng/ml	
Dextromethorphan	5.265	639372	75024.74	78.6	25403.98	32669	949.3533 ng/ml	
Dextrorphan	4.129	1306454	71457.04	205.5	190914.01	147376	1054.8842 ng/ml	
Diazepam	5.952	1096886	8794.28	87.0	12188.89	51232	998.0345 ng/ml	

AM #28 Multi-Drug Quant. Results

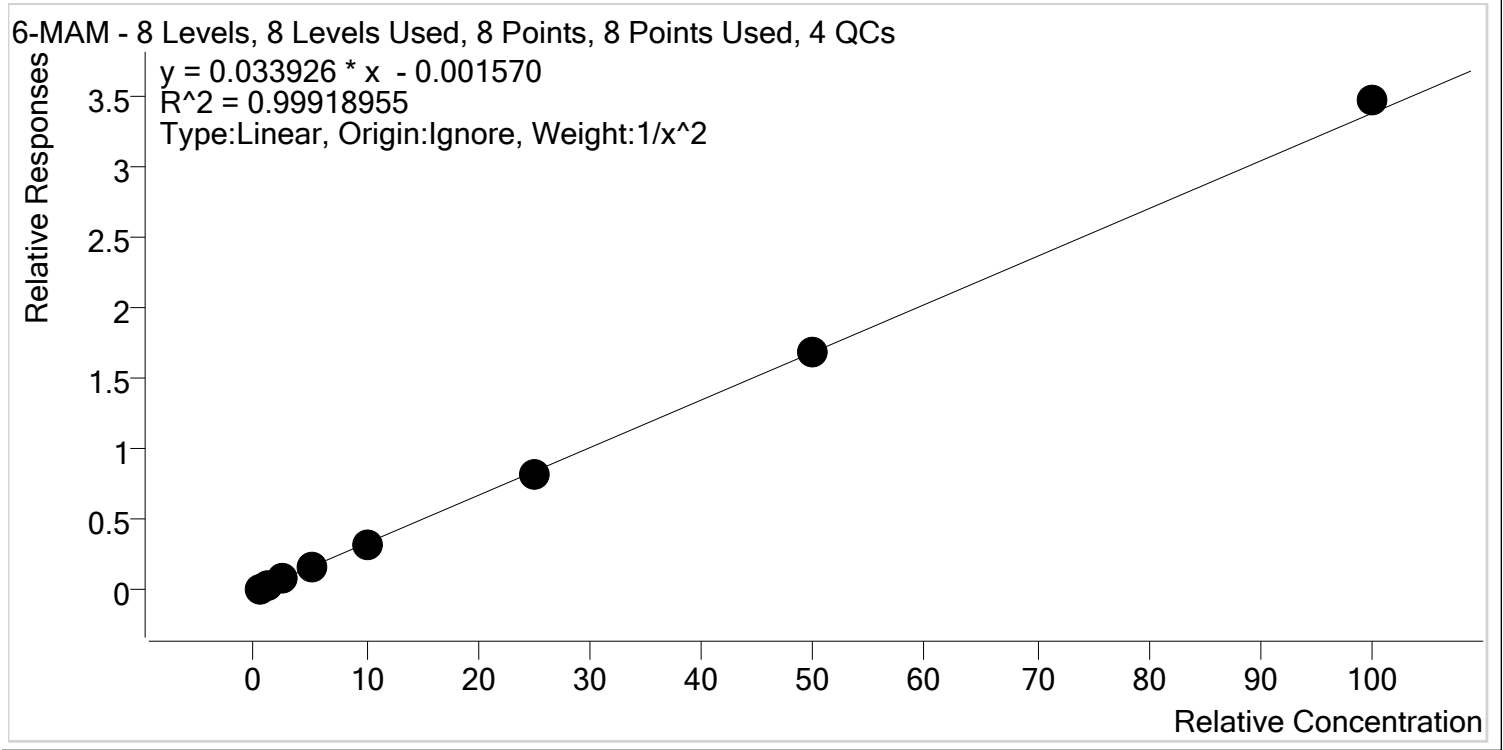


Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Dihydrocodeine	2.562	1266560	52866.20	67.9	57932.29	82183	884.8131 ng/ml	
Diphenhydramine	5.299	4059055	279140.05	34.1	34675.57	213980	1013.5431 ng/ml	
Doxylamine	4.529	11397762	1051980.36	95.4	1501091.47	504728	1004.2305 ng/ml	
EDDP	5.257	3626347	146318.72	42.7	83938.65	199116	950.4176 ng/ml	Did not evaluate
Fentanyl	5.079	70933	1172.06	79.7	1283.85	36397	95.6211 ng/ml	
Fluoxetine	5.711	334303	1384.13	9.6	∞	14337	913.3780 ng/ml	
Hydrocodone	3.025	1551768	∞	40.3	∞	93206	1024.4781 ng/ml	
Hydromorphone	1.628	1131906	∞	75.6	∞	44470	953.9450 ng/ml	
Ketamine	4.042	3226943	143976.61	37.5	1883.50	163067	946.0503 ng/ml	
Lamotrigine	4.297	254126	2531.62	78.7	13409.53	163067	716.2423 ng/ml	Outside curve range
Lorazepam	5.737	218154	5861.57	54.0	102.32	3652	992.6168 ng/ml	
Meprobamate	4.906	603691	908.28	28.0	18334.82	26248	1074.4164 ng/ml	
Methadone	5.656	2080241	∞	50.5	31980.31	99566	1034.2664 ng/ml	
Methamphetamine	3.231	1830726	23273.78	42.8	4260.80	91465	862.7780 ng/ml	
Metoprolol	4.329	758106	118496.08	91.0	∞	389220	789.4788 ng/ml	
Mirtazapine	4.610	3779236	201059.15	47.6	135296.43	161051	766.4584 ng/ml	
Mitragynine	5.214	260617	257720.65	39.9	120091.11	99566	579.4861 ng/ml	
Morphine	1.266	236286	14624.72	23.7	28978.24	3330	903.6907 ng/ml	
Norbuprenorphine	4.988	13076	343.58	95.6	9138.48	5914	99.8970 ng/ml	
Nordiazepam	5.891	285684	6915.62	57.7	2250.09	9420	946.8011 ng/ml	
Norfentanyl	4.084	584968	60554.56	36.6	4959.47	237244	103.7462 ng/ml	
Norhydrocodone	3.080	597943	∞	42.0	∞	103809	1225.9709 ng/ml	Outside curve range
Noroxycodone	2.928	813660	∞	47.5	∞	30809	989.1736 ng/ml	
O-desmethyl-tramadol	3.379	9248999	248173.38	6.7	21811.09	424374	1003.6954 ng/ml	
Oxazepam	5.747	176875	∞	69.5	626.09	6940	995.8328 ng/ml	
Oxycodone	2.847	2669143	∞	32.2	∞	120251	961.4268 ng/ml	
Oxymorphone	1.423	707209	785.45	46.5	∞	30109	922.4468 ng/ml	
Phentermine	3.787	830033	∞	3.8	818.80	100654	917.9861 ng/ml	
Promethazine	5.542	925808	6583.21	29.1	3463.87	39181	991.4570 ng/ml	
Quetiapine	5.531	3191014	6037.12	60.3	3905.15	43631	1107.9514 ng/ml	
Sertraline	5.787	138299	1349.60	89.8	7519.67	5944	948.4734 ng/ml	Did not evaluate
Temazepam	5.814	1039487	3484.23	29.9	326.46	47402	976.7816 ng/ml	
Tramadol	4.242	7144776	∞	3.6	9782.92	389220	965.4221 ng/ml	
Trazodone	5.092	2549699	184733.34	77.8	4724.62	86694	1122.0735 ng/ml	
Venlafaxine	5.046	6488804	196970.79	38.8	9647.22	323789	995.2152 ng/ml	
Zolpidem	4.862	8616319	182645.07	31.3	206829.38	439646	959.7147 ng/ml	



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

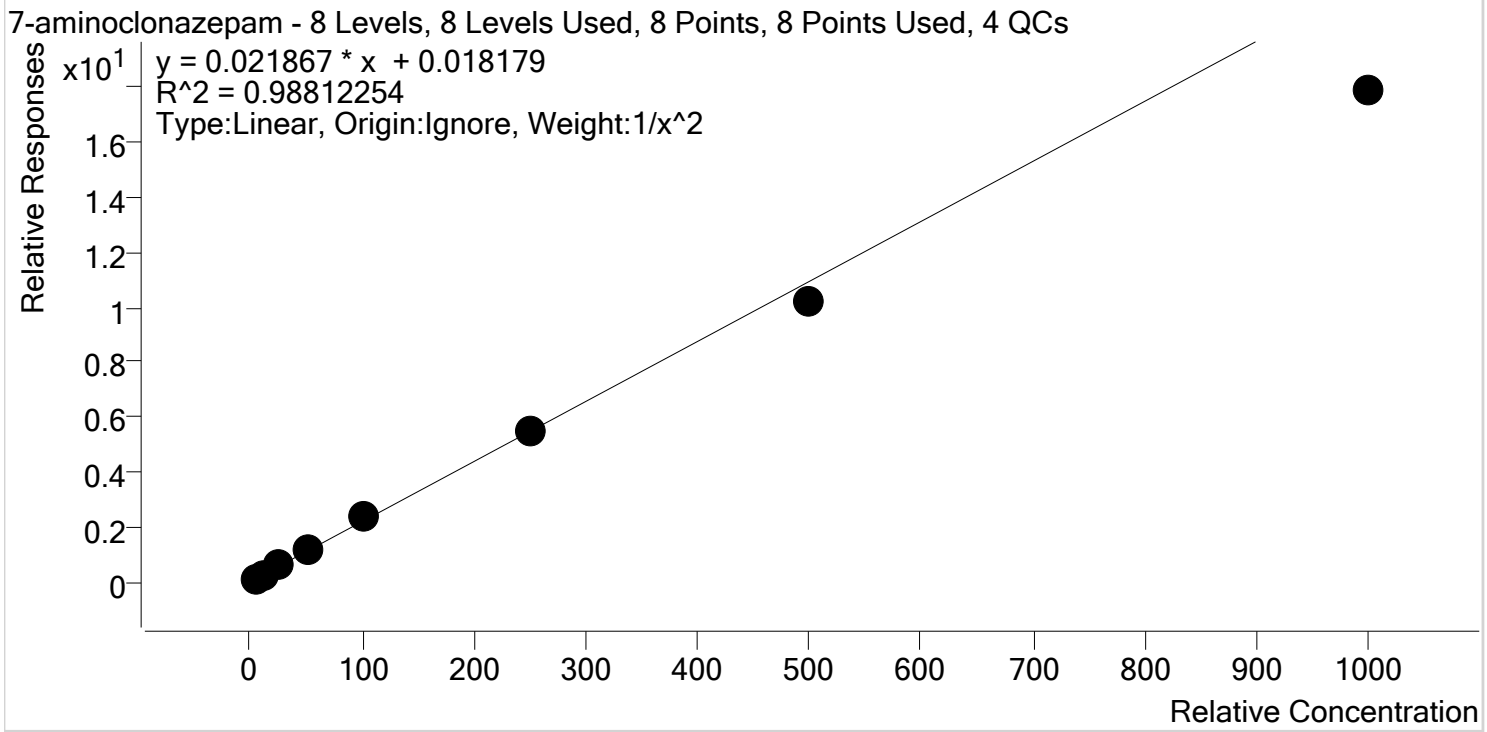


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	0.5	0.5	98.1
SP Cal 2- 10ng	2	✓	1.0	1.0	104.6
SP Cal 3- 25ng	3	✓	2.5	2.5	99.8
SP Cal 4-50ng	4	✓	5.0	4.9	97.7
SP Cal 5-100ng	5	✓	10.0	9.9	98.7
SP Cal 6-250ng	6	✓	25.0	24.5	98.1
SP Cal 7-500ng	7	✓	50.0	50.3	100.5
SP Cal 8-1000ng	8	✓	100.0	102.6	102.6

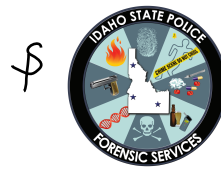


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

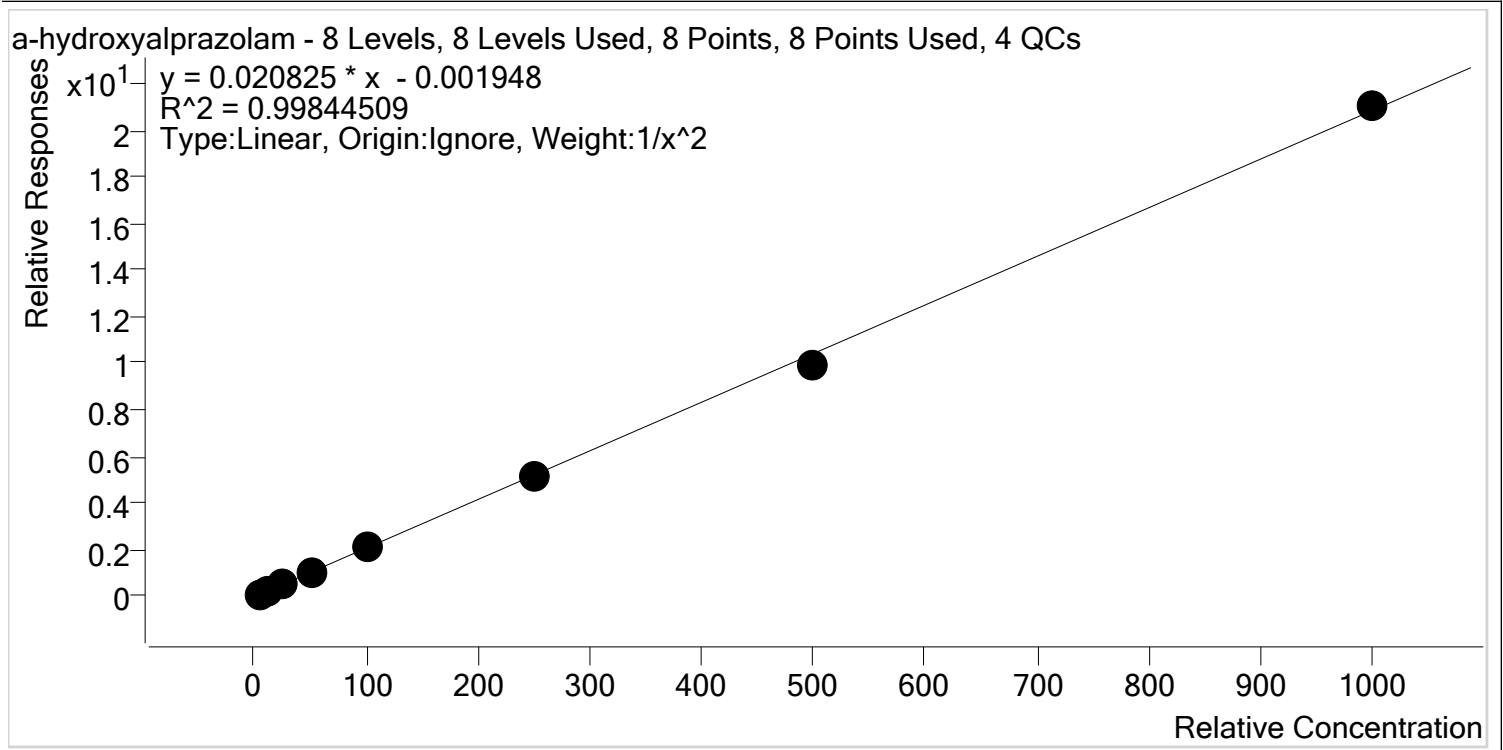


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.7	94.7
SP Cal 2- 10ng	2	✓	10.0	10.5	104.7
SP Cal 3- 25ng	3	✓	25.0	27.6	110.4
SP Cal 4-50ng	4	✓	50.0	52.9	105.9
SP Cal 5-100ng	5	✓	100.0	108.2	108.2
SP Cal 6-250ng	6	✓	250.0	251.8	100.7
SP Cal 7-500ng	7	✓	500.0	467.9	93.6
SP Cal 8-1000ng	8	✓	1000.0	817.9	81.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

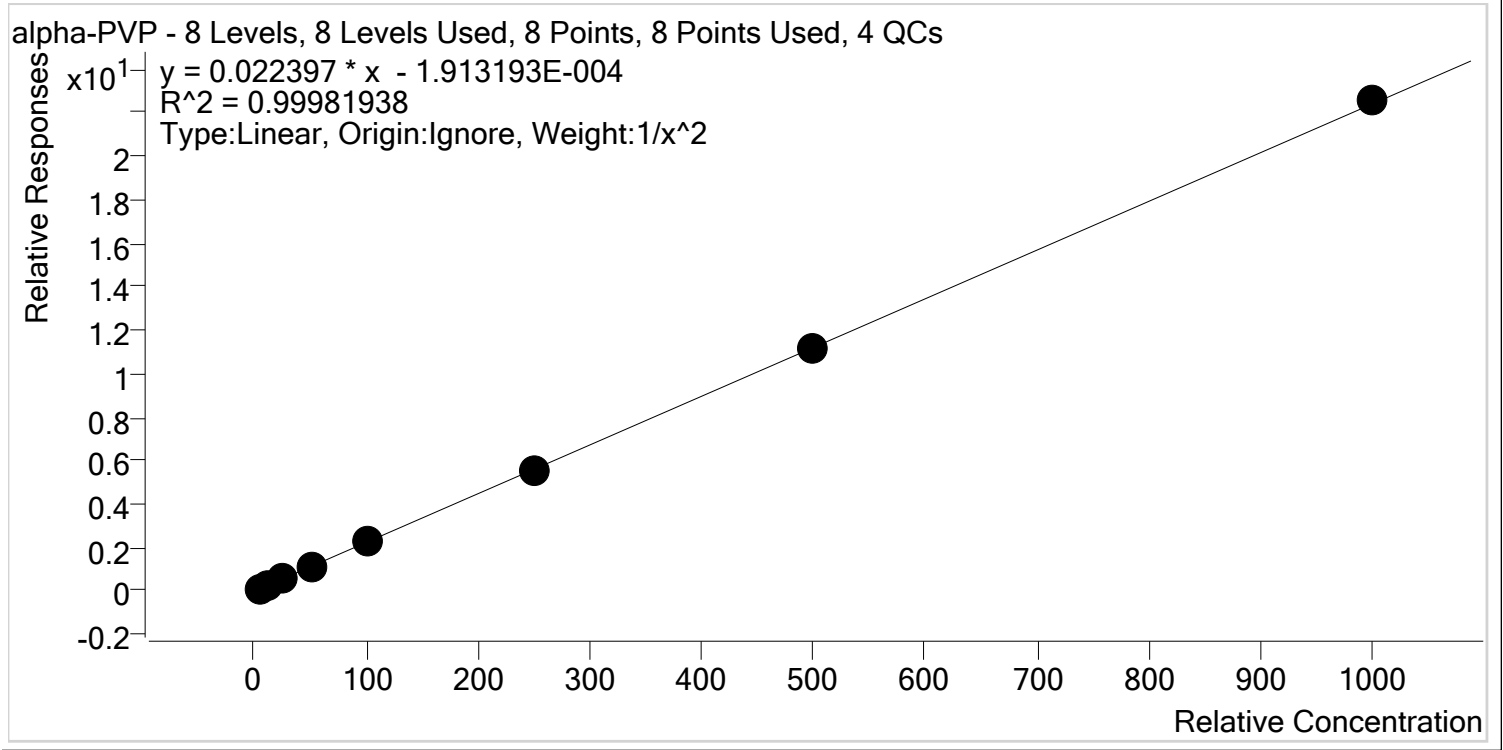


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.8	96.6
SP Cal 2- 10ng	2	✓	10.0	10.7	106.9
SP Cal 3- 25ng	3	✓	25.0	24.9	99.6
SP Cal 4-50ng	4	✓	50.0	50.0	99.9
SP Cal 5-100ng	5	✓	100.0	101.6	101.6
SP Cal 6-250ng	6	✓	250.0	247.0	98.8
SP Cal 7-500ng	7	✓	500.0	478.7	95.7
SP Cal 8-1000ng	8	✓	1000.0	1008.8	100.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

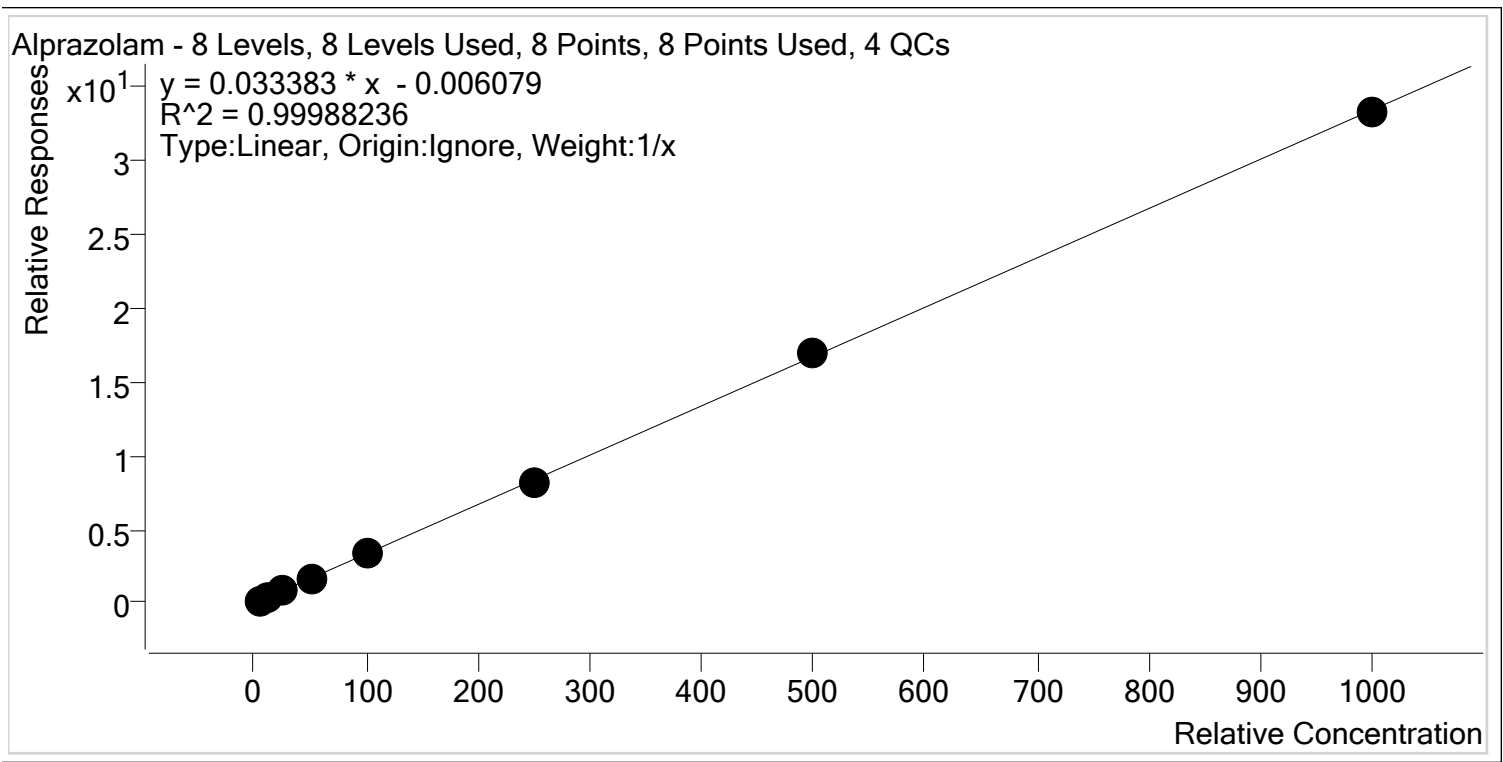


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	99.2
SP Cal 2- 10ng	2	✓	10.0	10.2	101.9
SP Cal 3- 25ng	3	✓	25.0	25.0	99.9
SP Cal 4-50ng	4	✓	50.0	49.2	98.3
SP Cal 5-100ng	5	✓	100.0	100.8	100.8
SP Cal 6-250ng	6	✓	250.0	247.1	98.9
SP Cal 7-500ng	7	✓	500.0	501.4	100.3
SP Cal 8-1000ng	8	✓	1000.0	1007.0	100.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

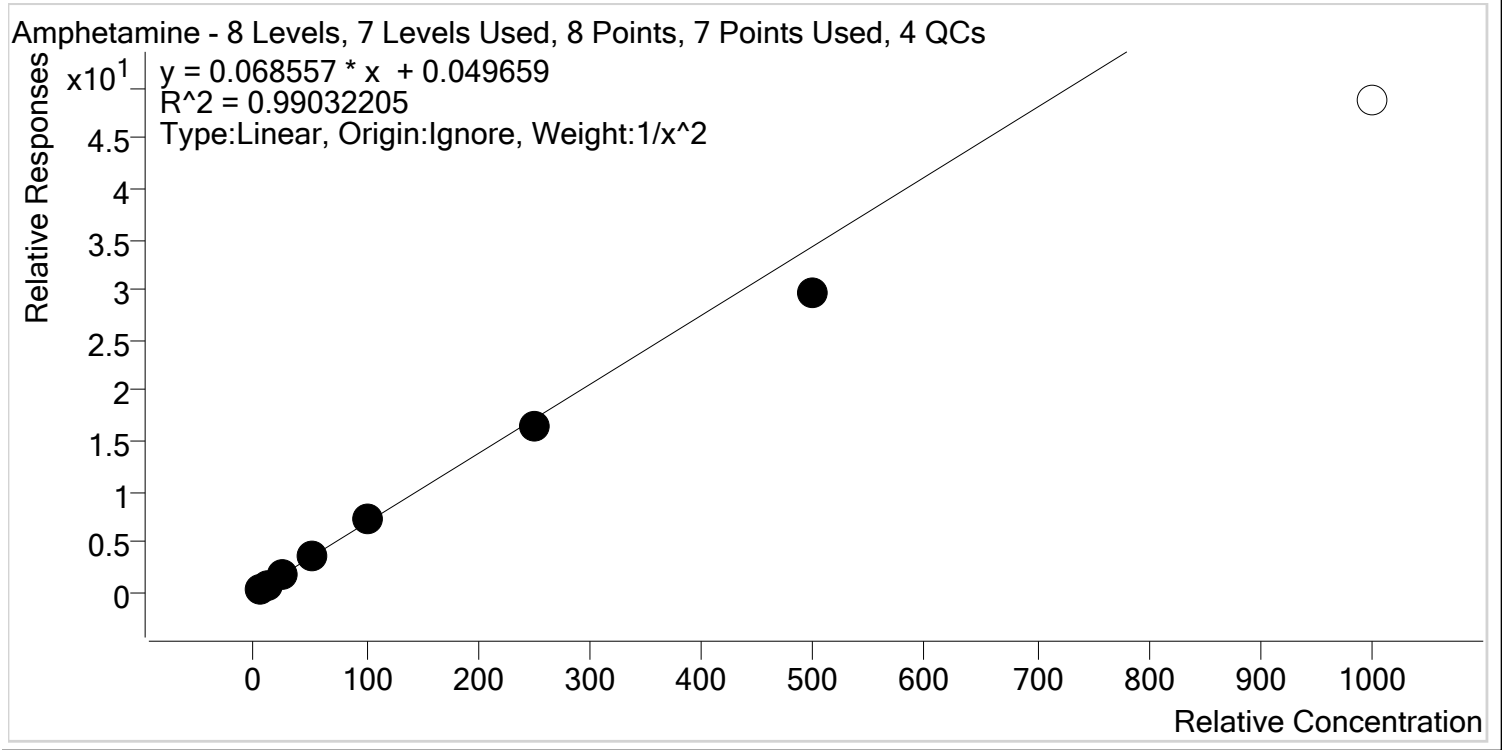


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	99.8
SP Cal 2- 10ng	2	✓	10.0	10.1	100.5
SP Cal 3- 25ng	3	✓	25.0	25.3	101.4
SP Cal 4-50ng	4	✓	50.0	49.5	98.9
SP Cal 5-100ng	5	✓	100.0	99.1	99.1
SP Cal 6-250ng	6	✓	250.0	247.9	99.2
SP Cal 7-500ng	7	✓	500.0	508.5	101.7
SP Cal 8-1000ng	8	✓	1000.0	994.7	99.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	100.1
SP Cal 2- 10ng	2	✓	10.0	9.4	94.0
SP Cal 3- 25ng	3	✓	25.0	27.7	111.0
SP Cal 4-50ng	4	✓	50.0	53.1	106.3
SP Cal 5-100ng	5	✓	100.0	105.3	105.3
SP Cal 6-250ng	6	✓	250.0	242.3	96.9
SP Cal 7-500ng	7	✓	500.0	431.9	86.4
SP Cal 8-1000ng	8	✗	1000.0	710.1	71.0

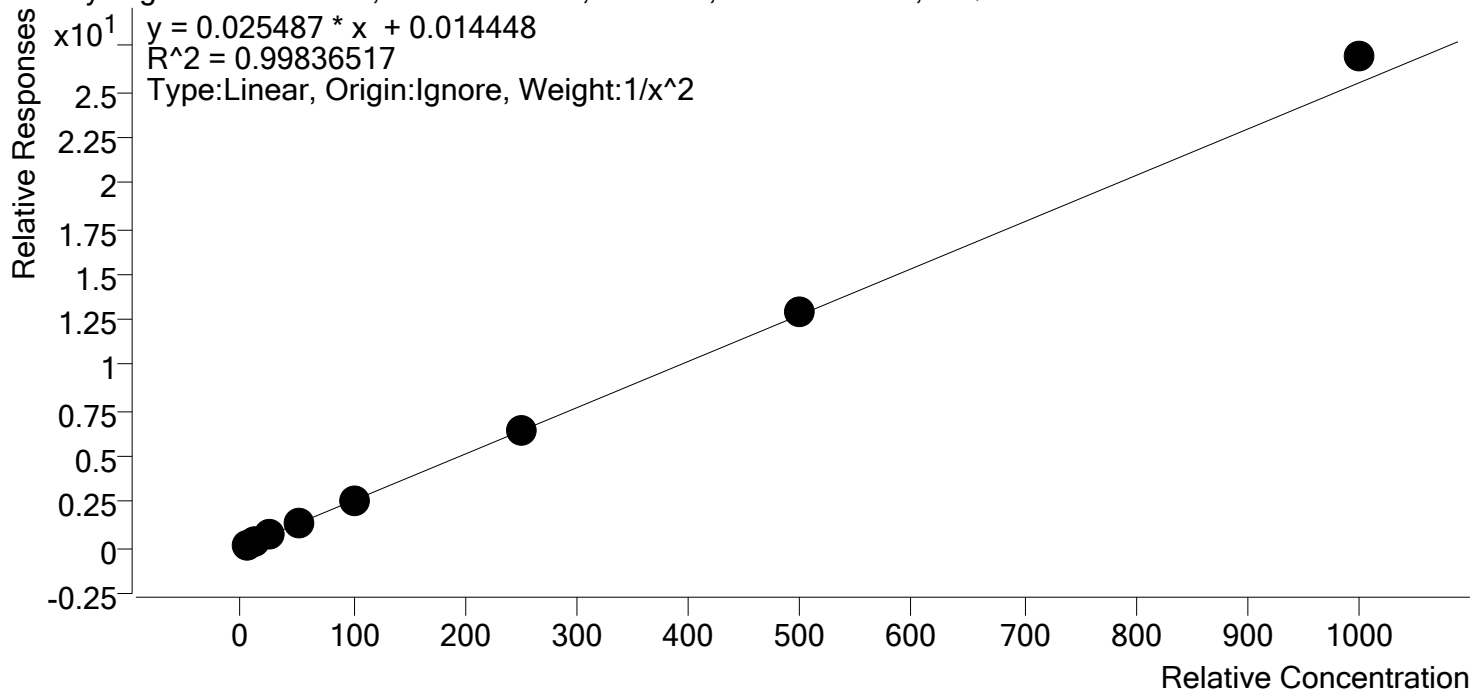
5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 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
SP Cal 1-5ng	1	✓	5.0	4.9	98.9
SP Cal 2- 10ng	2	✓	10.0	10.4	104.4
SP Cal 3- 25ng	3	✓	25.0	24.4	97.4
SP Cal 4-50ng	4	✓	50.0	47.9	95.8
SP Cal 5-100ng	5	✓	100.0	97.1	97.1
SP Cal 6-250ng	6	✓	250.0	249.3	99.7
SP Cal 7-500ng	7	✓	500.0	505.4	101.1
SP Cal 8-1000ng	8	✓	1000.0	1056.4	105.6

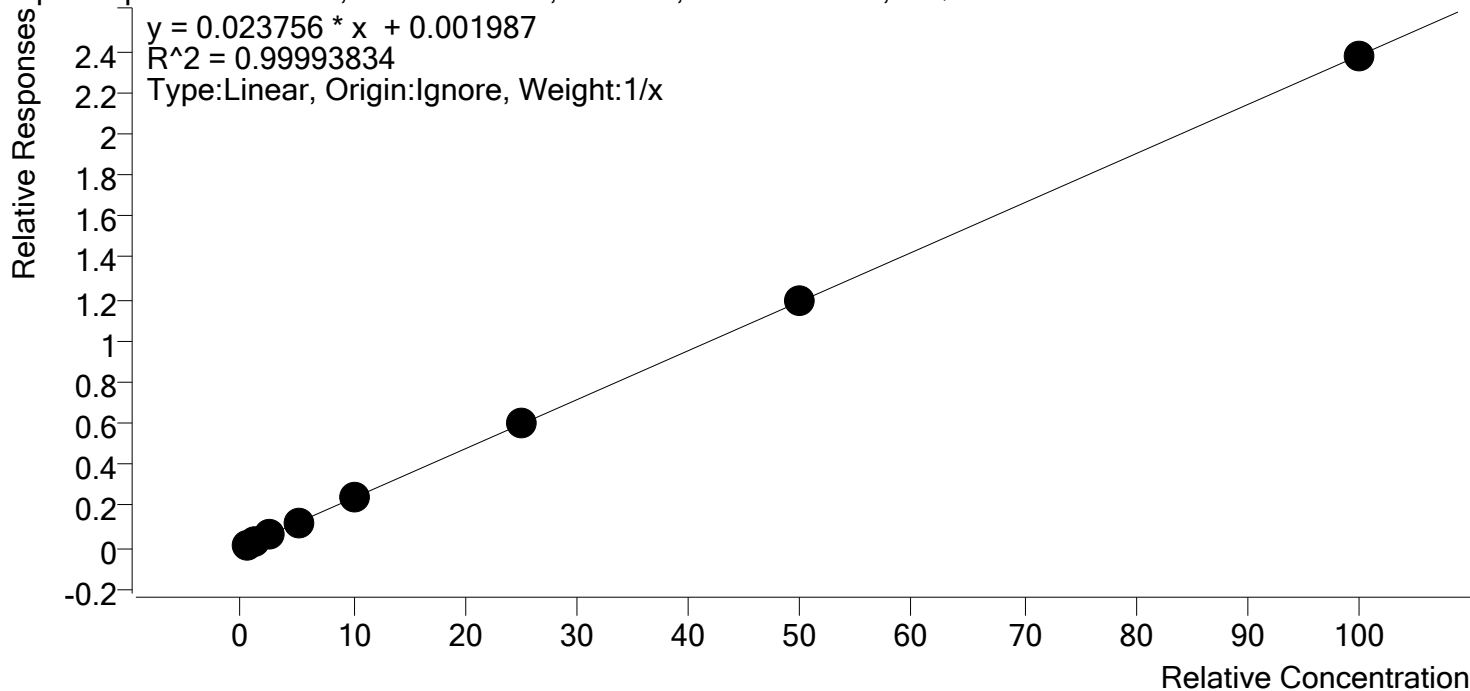
\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4

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



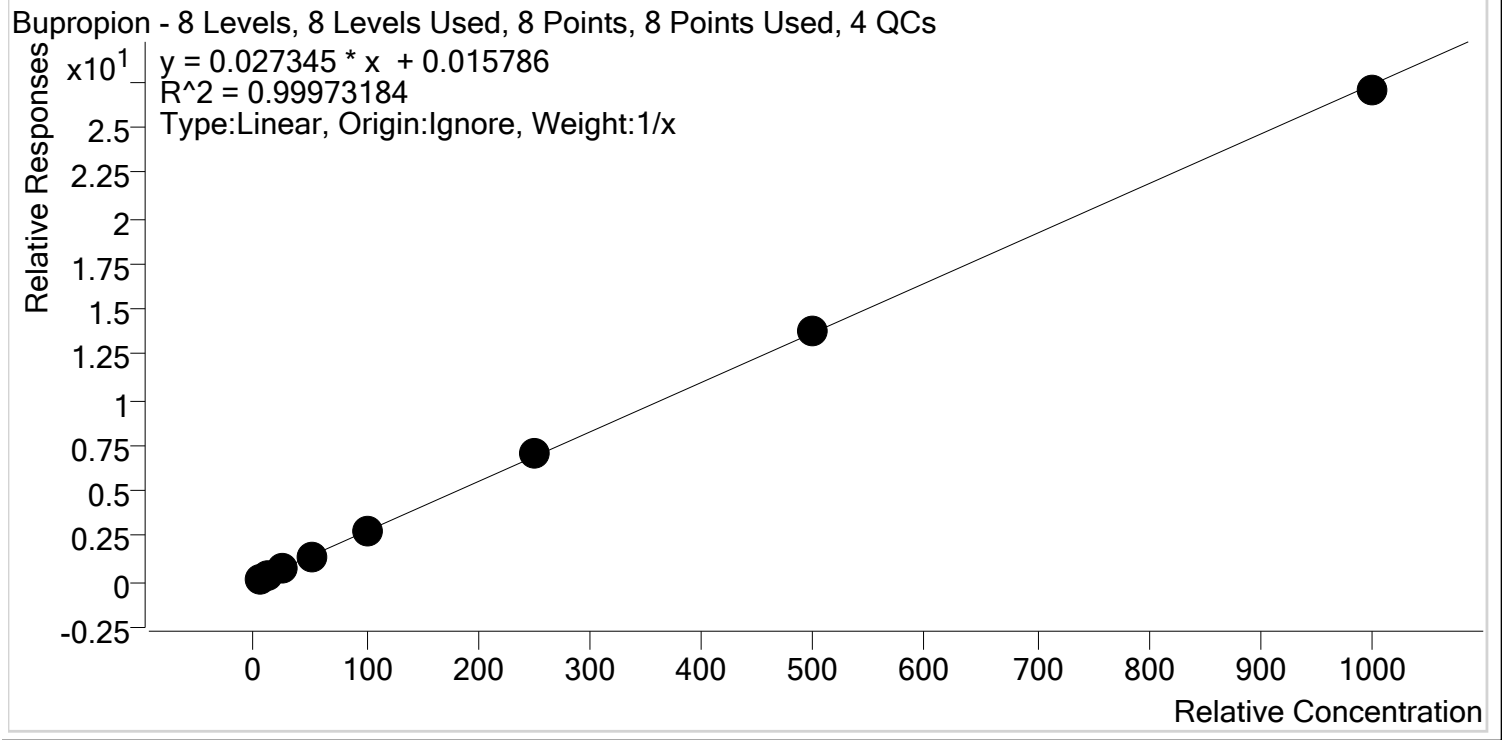
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	0.5	0.5	104.5
SP Cal 2- 10ng	2	✓	1.0	1.0	99.6
SP Cal 3- 25ng	3	✓	2.5	2.5	98.6
SP Cal 4-50ng	4	✓	5.0	4.9	97.7
SP Cal 5-100ng	5	✓	10.0	9.9	99.1
SP Cal 6-250ng	6	✓	25.0	24.9	99.7
SP Cal 7-500ng	7	✓	50.0	50.5	101.0
SP Cal 8-1000ng	8	✓	100.0	99.8	99.8

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

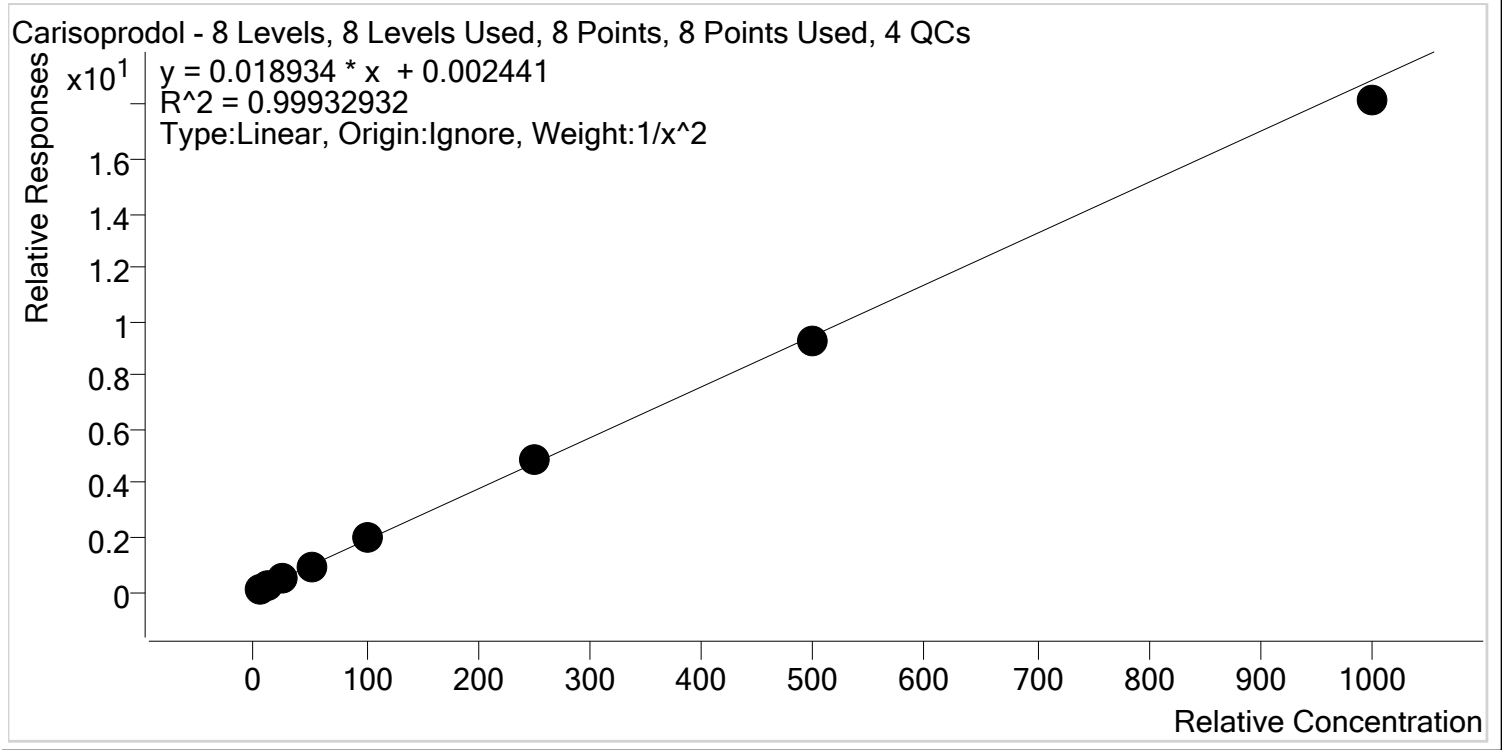


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.6	91.0
SP Cal 2- 10ng	2	✓	10.0	10.1	100.7
SP Cal 3- 25ng	3	✓	25.0	25.6	102.4
SP Cal 4-50ng	4	✓	50.0	50.4	100.7
SP Cal 5-100ng	5	✓	100.0	103.6	103.6
SP Cal 6-250ng	6	✓	250.0	255.6	102.3
SP Cal 7-500ng	7	✓	500.0	502.4	100.5
SP Cal 8-1000ng	8	✓	1000.0	987.8	98.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7



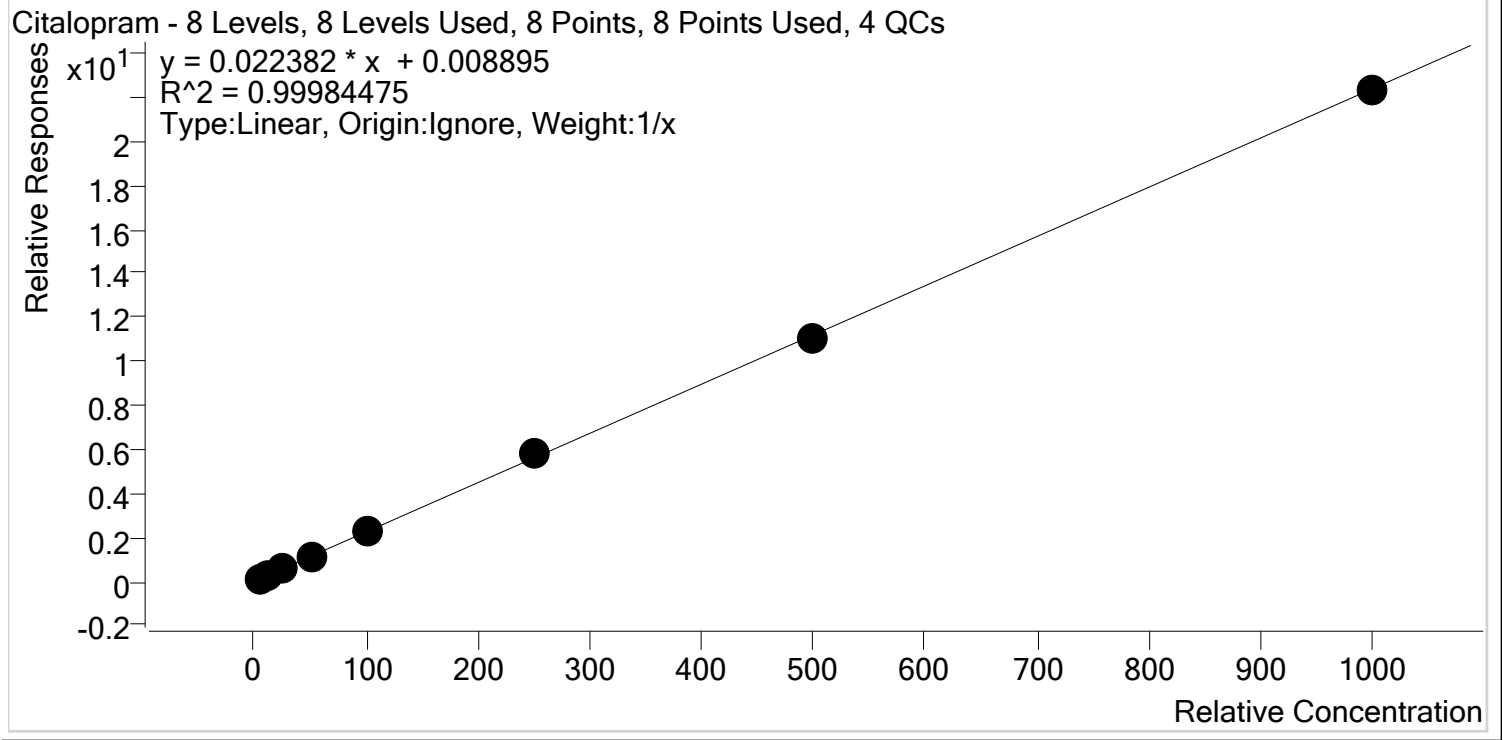
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.5
SP Cal 2- 10ng	2	✓	10.0	10.3	102.7
SP Cal 3- 25ng	3	✓	25.0	25.0	100.0
SP Cal 4-50ng	4	✓	50.0	50.1	100.2
SP Cal 5-100ng	5	✓	100.0	101.9	101.9
SP Cal 6-250ng	6	✓	250.0	255.2	102.1
SP Cal 7-500ng	7	✓	500.0	492.9	98.6
SP Cal 8-1000ng	8	✓	1000.0	960.1	96.0

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

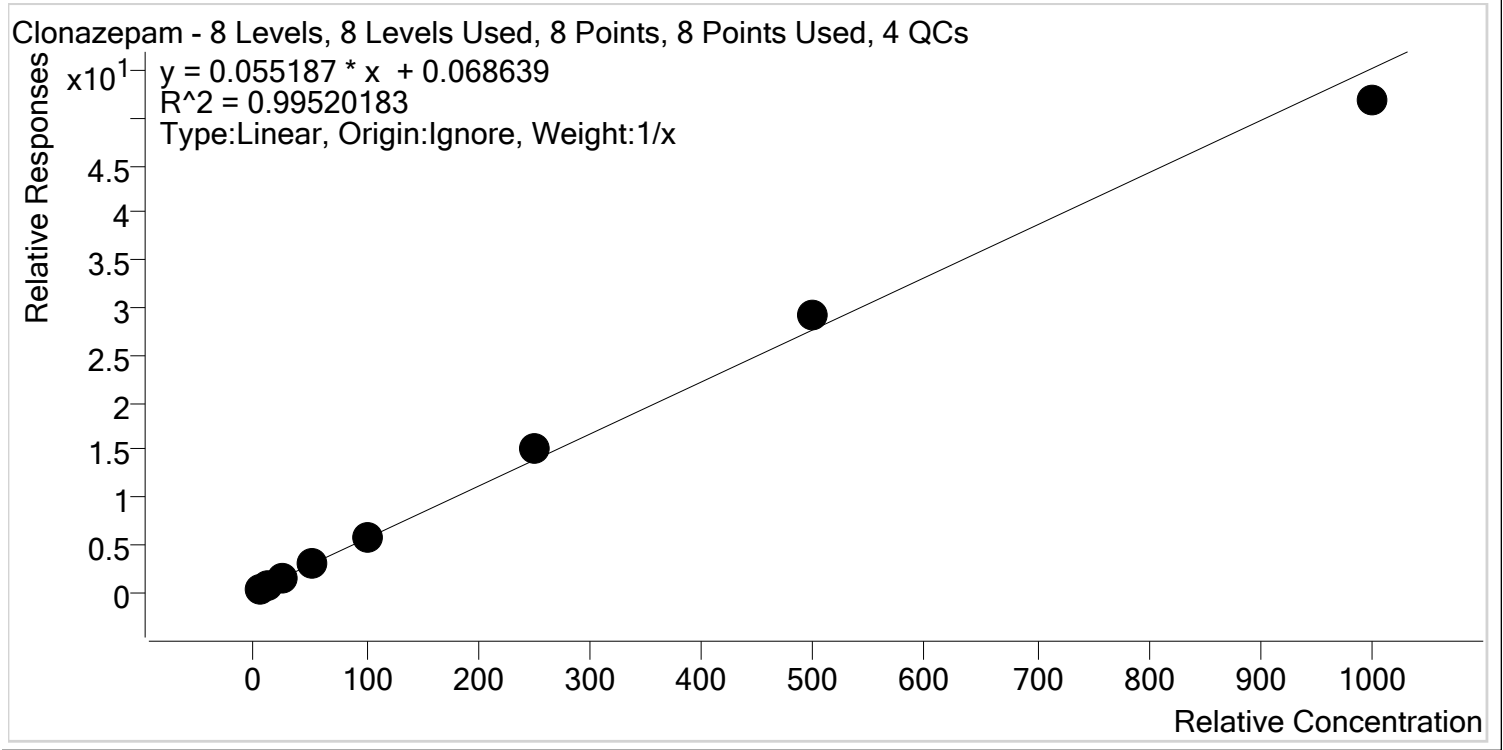


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.8	95.1
SP Cal 2- 10ng	2	✓	10.0	10.1	101.3
SP Cal 3- 25ng	3	✓	25.0	25.1	100.4
SP Cal 4-50ng	4	✓	50.0	49.9	99.8
SP Cal 5-100ng	5	✓	100.0	102.3	102.3
SP Cal 6-250ng	6	✓	250.0	256.1	102.4
SP Cal 7-500ng	7	✓	500.0	495.2	99.0
SP Cal 8-1000ng	8	✓	1000.0	996.5	99.7



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4



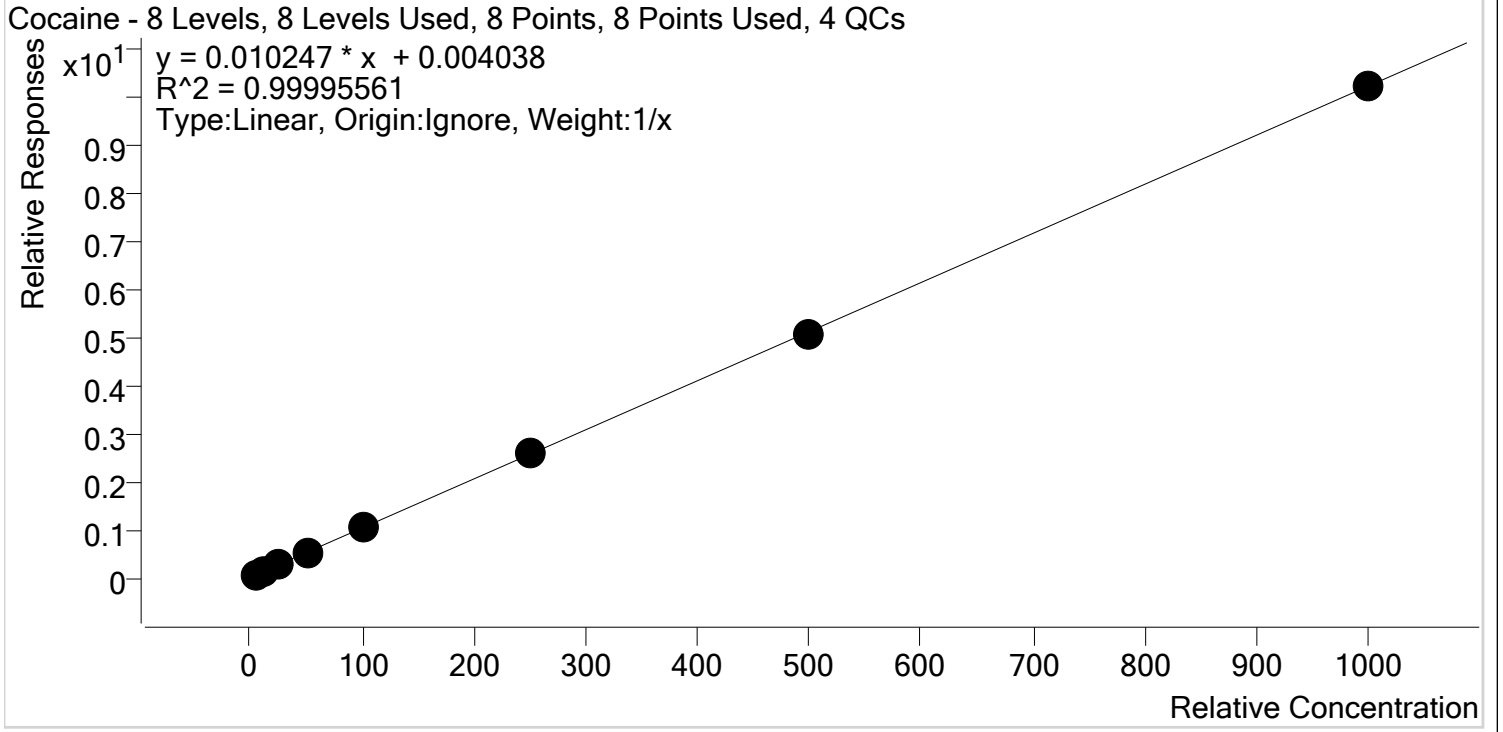
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.2	84.1
SP Cal 2- 10ng	2	✓	10.0	9.5	94.8
SP Cal 3- 25ng	3	✓	25.0	25.6	102.4
SP Cal 4-50ng	4	✓	50.0	51.7	103.4
SP Cal 5-100ng	5	✓	100.0	105.7	105.7
SP Cal 6-250ng	6	✓	250.0	273.4	109.4
SP Cal 7-500ng	7	✓	500.0	531.5	106.3
SP Cal 8-1000ng	8	✓	1000.0	938.3	93.8



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3



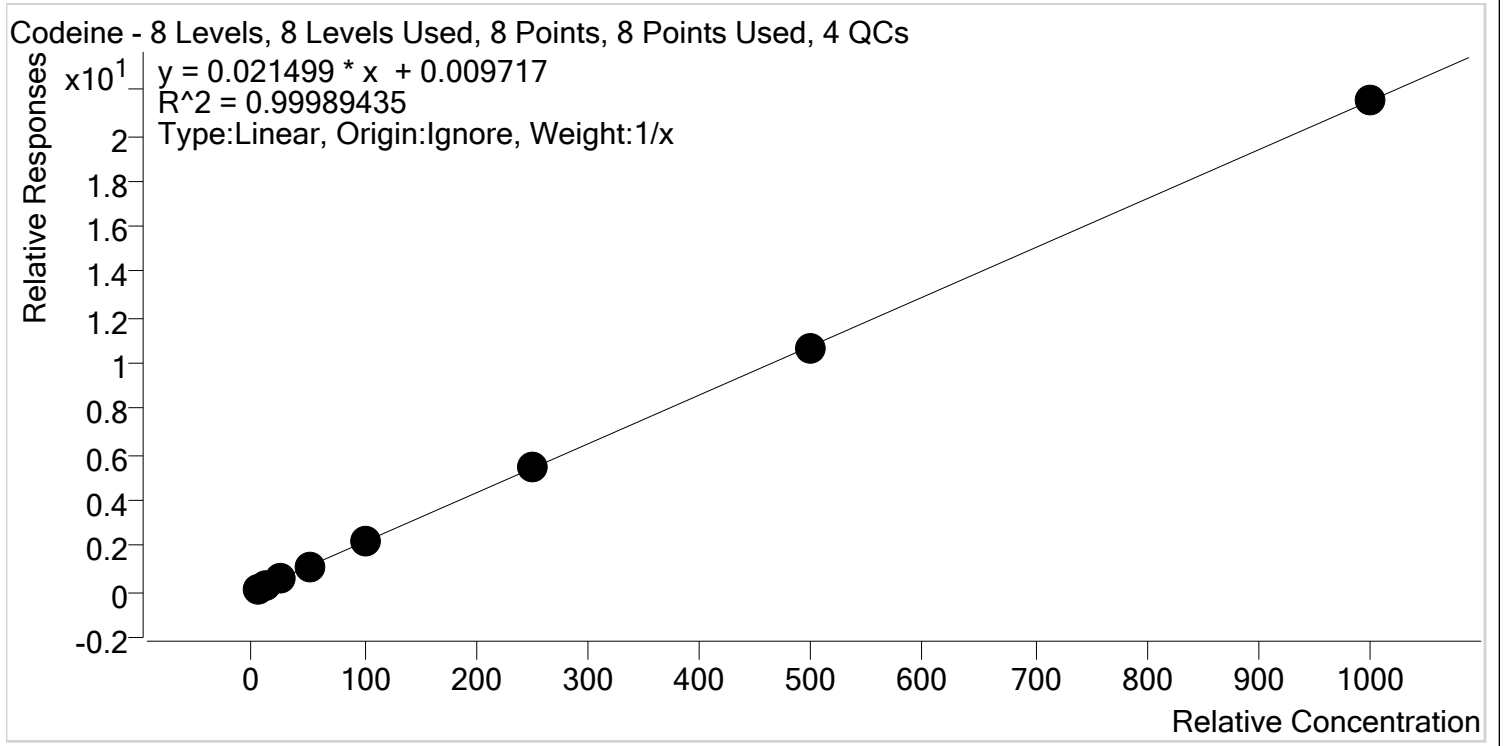
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.8	95.5
SP Cal 2- 10ng	2	✓	10.0	10.2	102.1
SP Cal 3- 25ng	3	✓	25.0	25.3	101.0
SP Cal 4-50ng	4	✓	50.0	49.7	99.4
SP Cal 5-100ng	5	✓	100.0	102.0	102.0
SP Cal 6-250ng	6	✓	250.0	251.3	100.5
SP Cal 7-500ng	7	✓	500.0	497.6	99.5
SP Cal 8-1000ng	8	✓	1000.0	999.1	99.9



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
 Last Cal. Update 6/10/2019 10:51 AM
 Analyst Name ISP\datastor
 Analyte Codeine Internal Standard Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.6	93.0
SP Cal 2- 10ng	2	✓	10.0	10.2	102.5
SP Cal 3- 25ng	3	✓	25.0	25.4	101.7
SP Cal 4-50ng	4	✓	50.0	50.2	100.4
SP Cal 5-100ng	5	✓	100.0	102.9	102.9
SP Cal 6-250ng	6	✓	250.0	251.4	100.6
SP Cal 7-500ng	7	✓	500.0	494.6	98.9
SP Cal 8-1000ng	8	✓	1000.0	1000.6	100.1

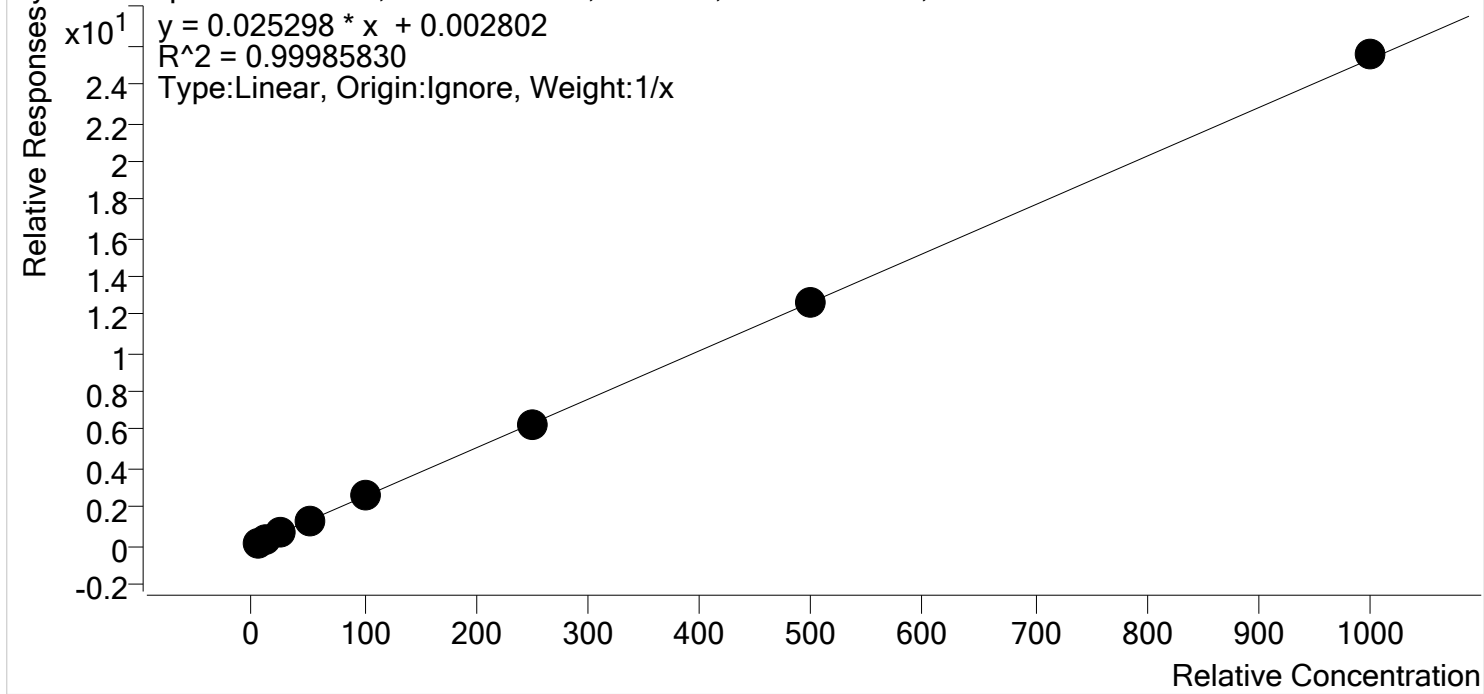
\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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

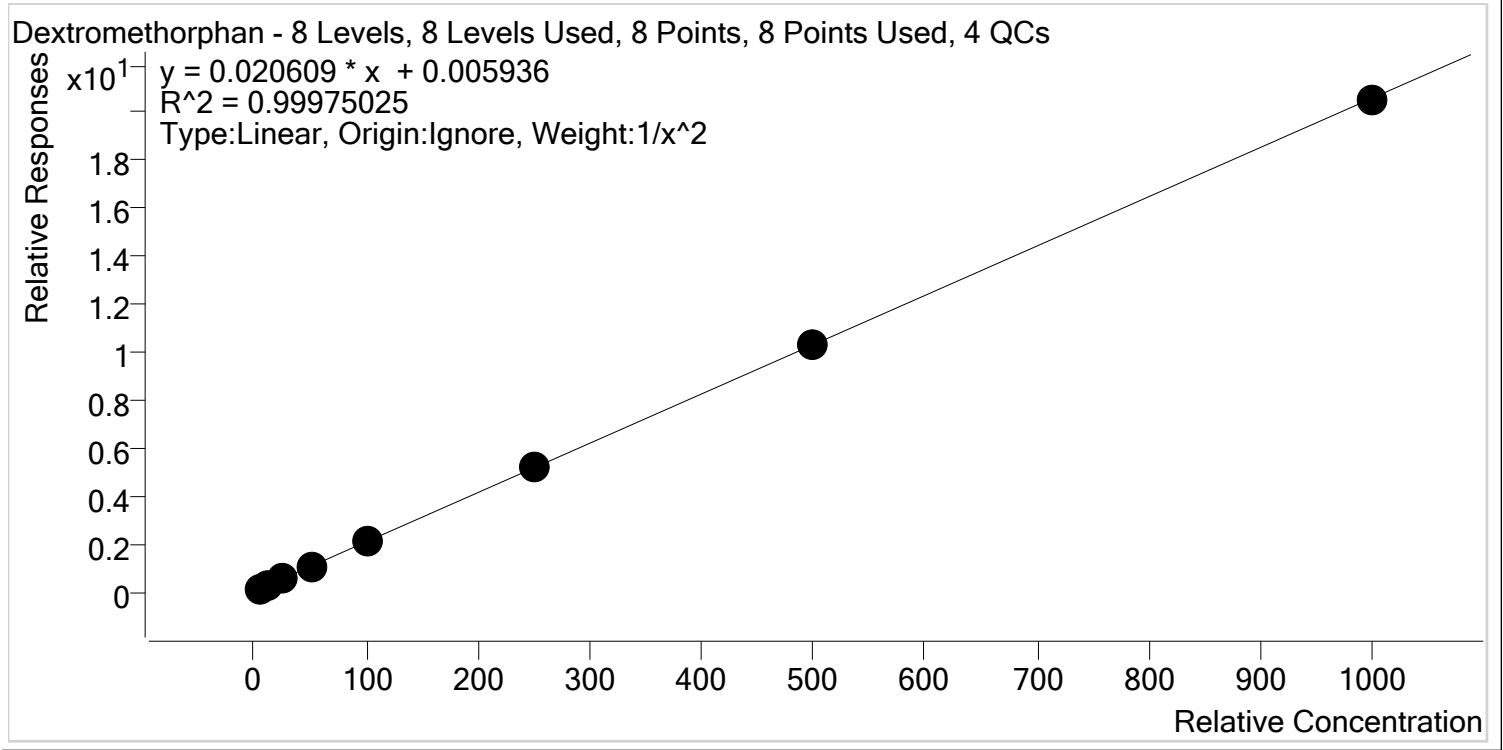


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.1	101.5
SP Cal 2- 10ng	2	✓	10.0	10.2	102.2
SP Cal 3- 25ng	3	✓	25.0	25.0	99.9
SP Cal 4-50ng	4	✓	50.0	49.0	98.1
SP Cal 5-100ng	5	✓	100.0	100.2	100.2
SP Cal 6-250ng	6	✓	250.0	244.7	97.9
SP Cal 7-500ng	7	✓	500.0	496.4	99.3
SP Cal 8-1000ng	8	✓	1000.0	1009.4	100.9

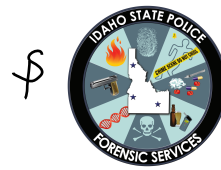


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

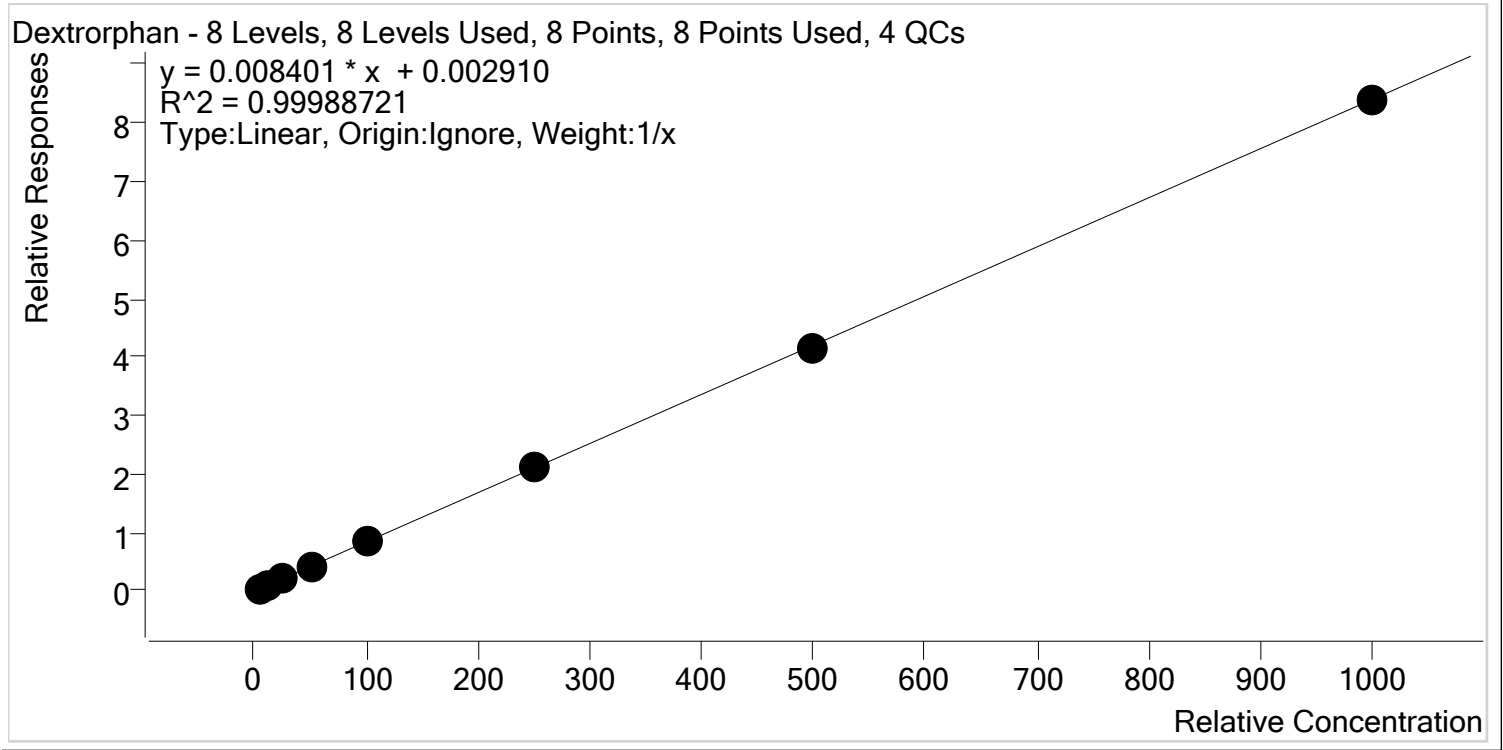


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	99.1
SP Cal 2- 10ng	2	✓	10.0	10.2	102.3
SP Cal 3- 25ng	3	✓	25.0	24.9	99.5
SP Cal 4-50ng	4	✓	50.0	49.1	98.2
SP Cal 5-100ng	5	✓	100.0	100.1	100.1
SP Cal 6-250ng	6	✓	250.0	254.3	101.7
SP Cal 7-500ng	7	✓	500.0	498.1	99.6
SP Cal 8-1000ng	8	✓	1000.0	995.1	99.5

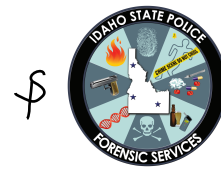


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

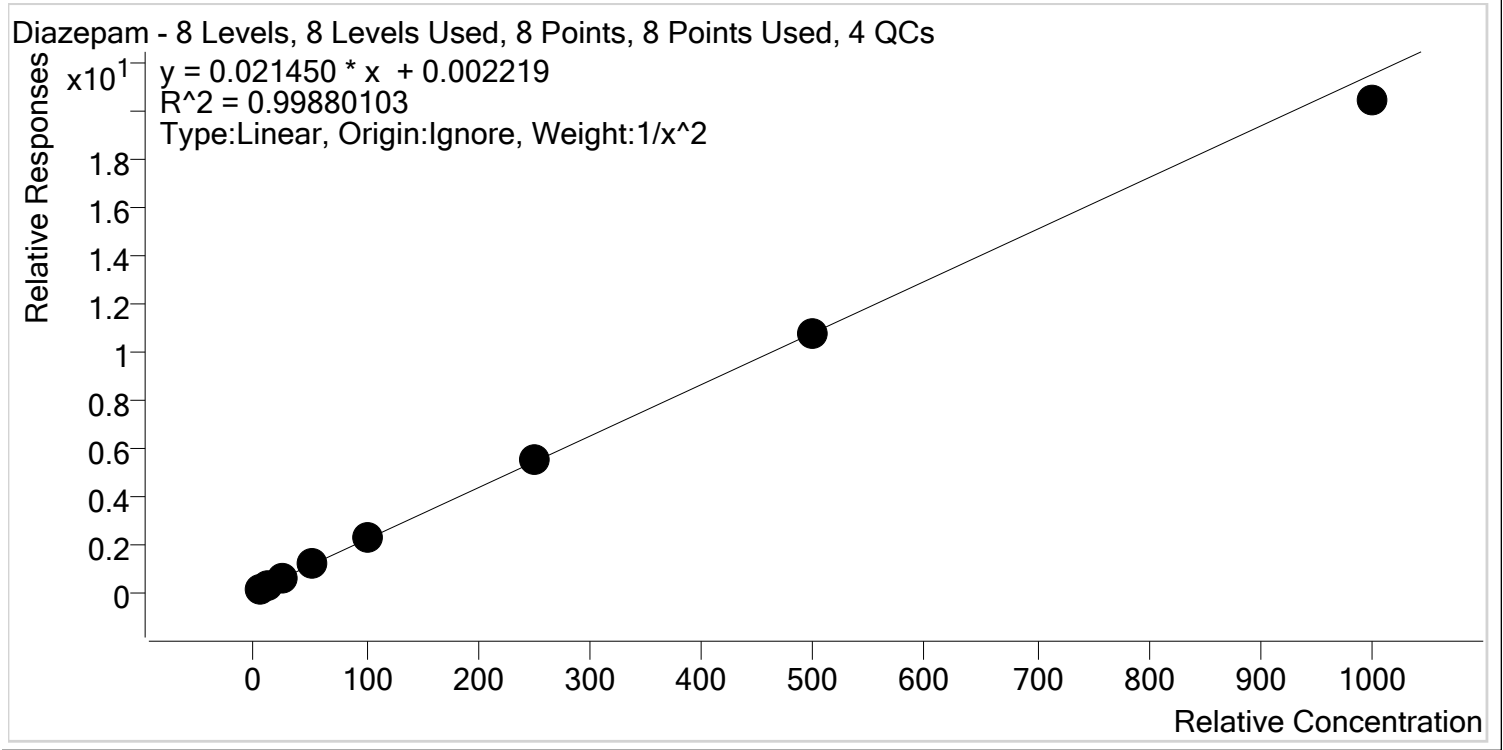


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.7	93.6
SP Cal 2- 10ng	2	✓	10.0	10.2	101.6
SP Cal 3- 25ng	3	✓	25.0	25.2	100.8
SP Cal 4-50ng	4	✓	50.0	50.9	101.7
SP Cal 5-100ng	5	✓	100.0	101.7	101.7
SP Cal 6-250ng	6	✓	250.0	254.4	101.8
SP Cal 7-500ng	7	✓	500.0	495.2	99.0
SP Cal 8-1000ng	8	✓	1000.0	997.8	99.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5

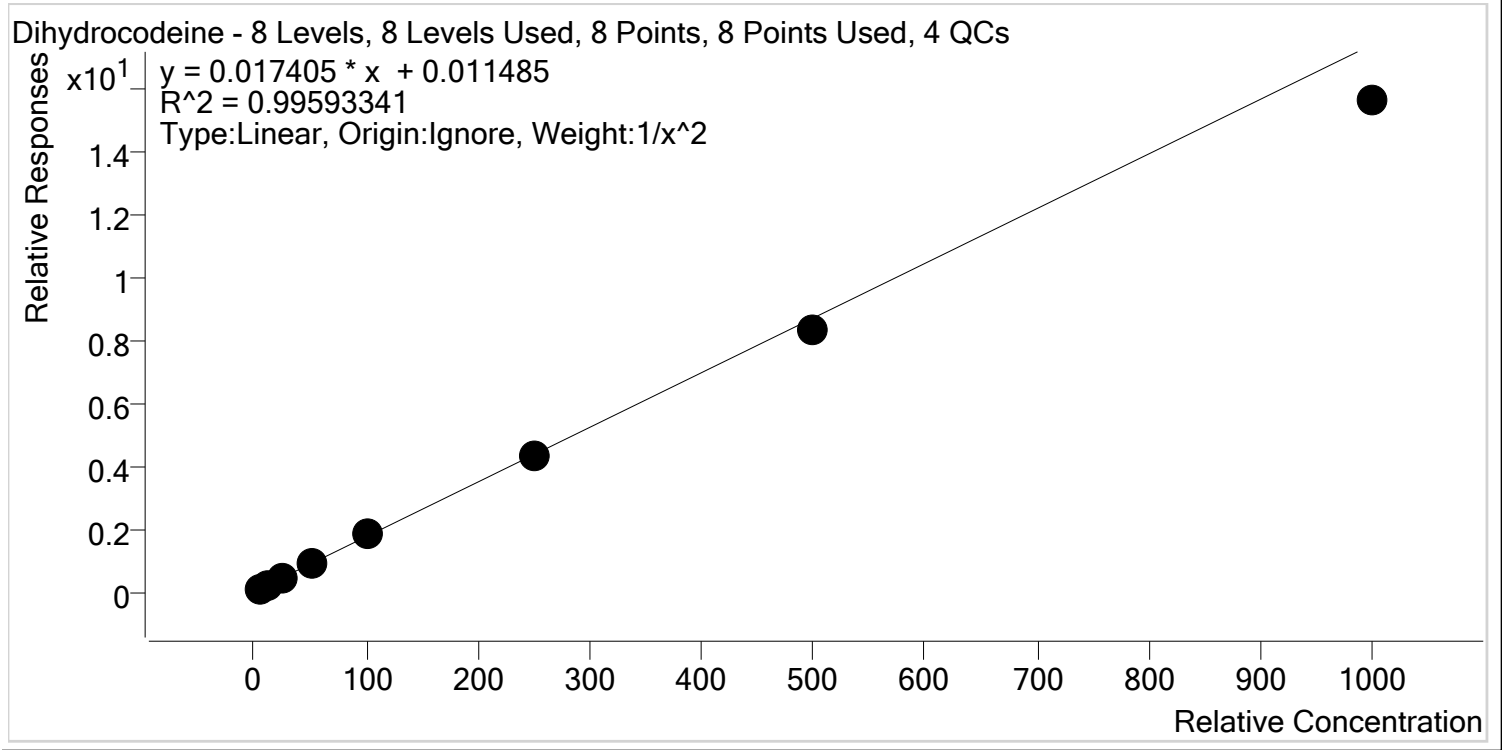


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	97.2
SP Cal 2- 10ng	2	✓	10.0	10.5	105.3
SP Cal 3- 25ng	3	✓	25.0	25.0	99.9
SP Cal 4-50ng	4	✓	50.0	50.6	101.1
SP Cal 5-100ng	5	✓	100.0	100.6	100.6
SP Cal 6-250ng	6	✓	250.0	251.7	100.7
SP Cal 7-500ng	7	✓	500.0	501.2	100.2
SP Cal 8-1000ng	8	✓	1000.0	949.4	94.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

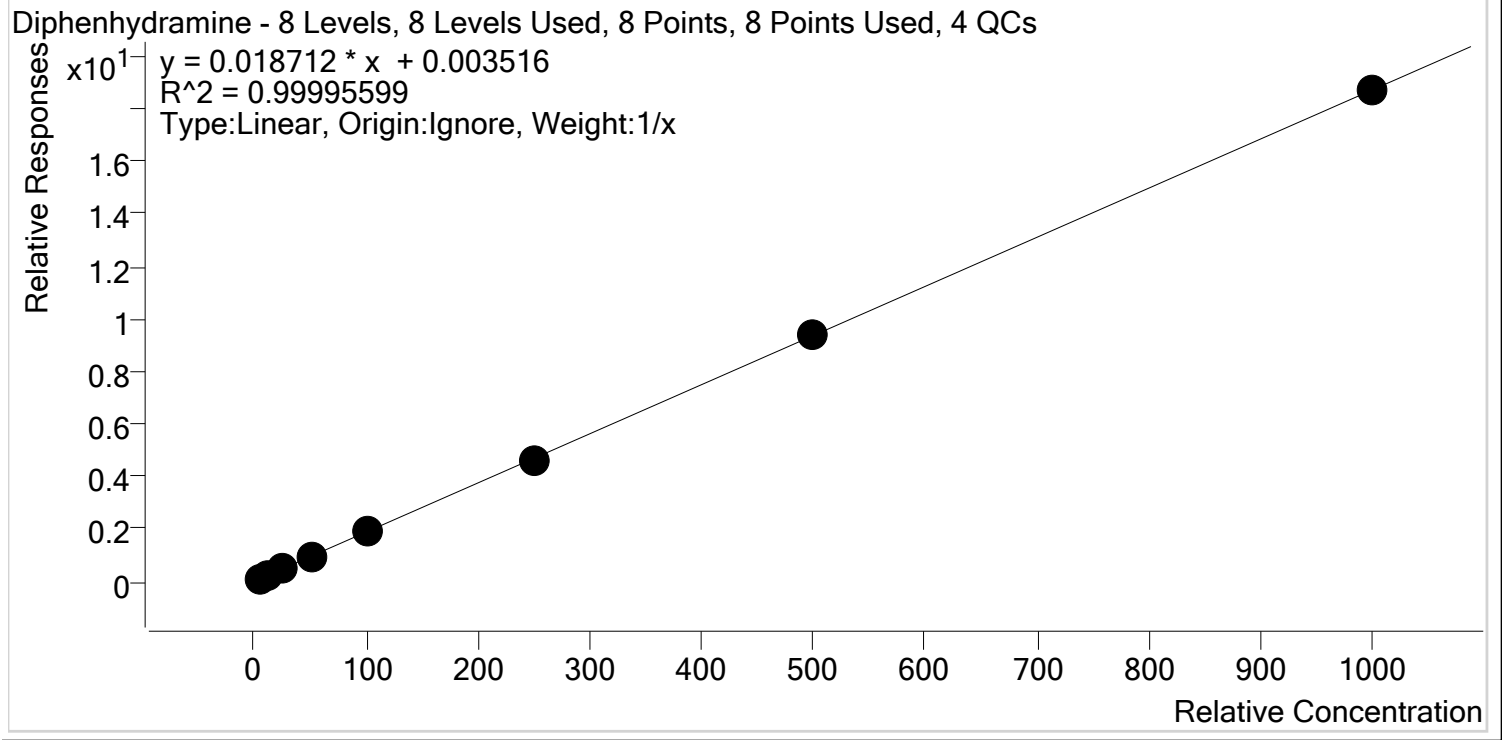


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.8	96.5
SP Cal 2- 10ng	2	✓	10.0	10.4	104.2
SP Cal 3- 25ng	3	✓	25.0	26.0	103.9
SP Cal 4-50ng	4	✓	50.0	52.0	104.0
SP Cal 5-100ng	5	✓	100.0	105.9	105.9
SP Cal 6-250ng	6	✓	250.0	248.5	99.4
SP Cal 7-500ng	7	✓	500.0	481.2	96.2
SP Cal 8-1000ng	8	✓	1000.0	897.7	89.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3



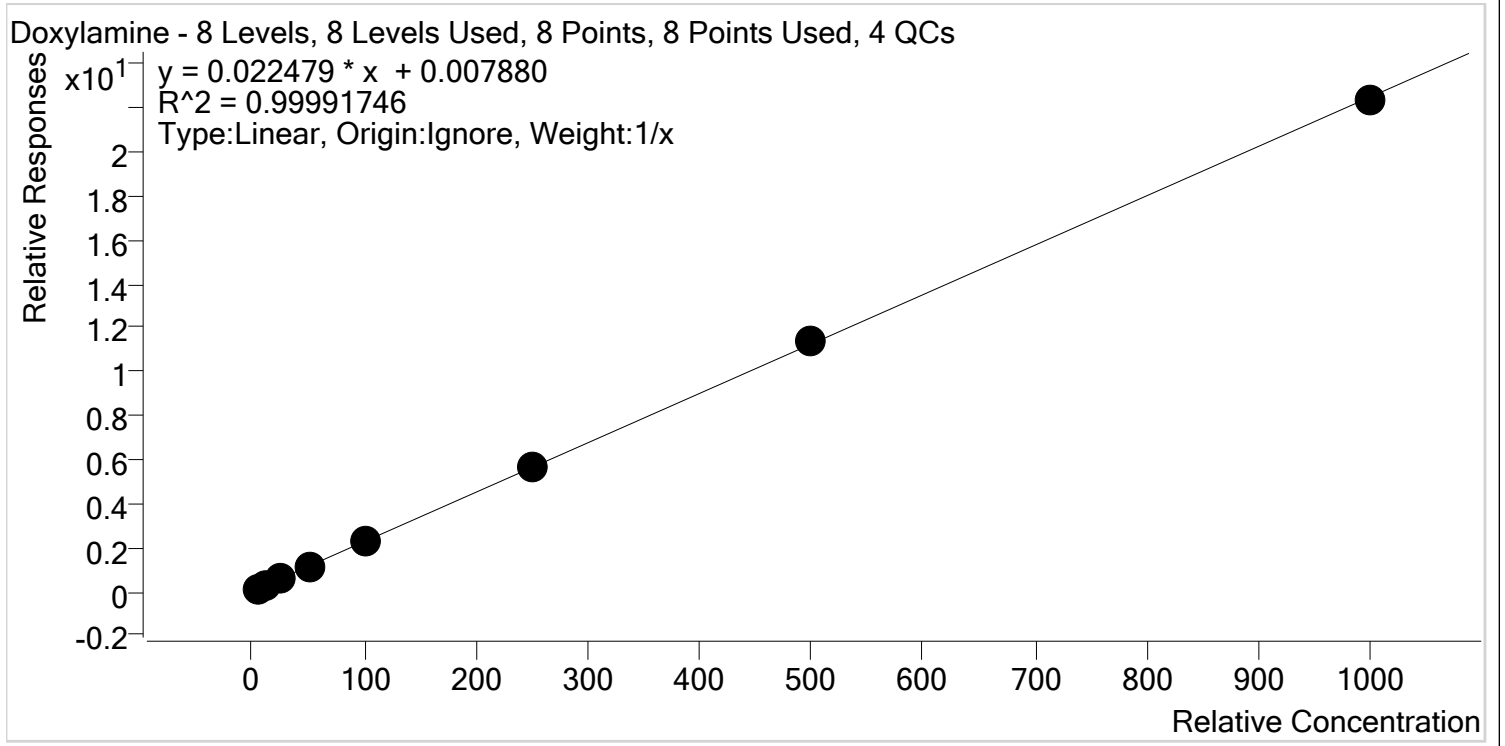
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	99.3
SP Cal 2- 10ng	2	✓	10.0	10.2	101.6
SP Cal 3- 25ng	3	✓	25.0	24.6	98.5
SP Cal 4-50ng	4	✓	50.0	49.6	99.1
SP Cal 5-100ng	5	✓	100.0	101.9	101.9
SP Cal 6-250ng	6	✓	250.0	247.9	99.1
SP Cal 7-500ng	7	✓	500.0	502.1	100.4
SP Cal 8-1000ng	8	✓	1000.0	998.7	99.9



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5

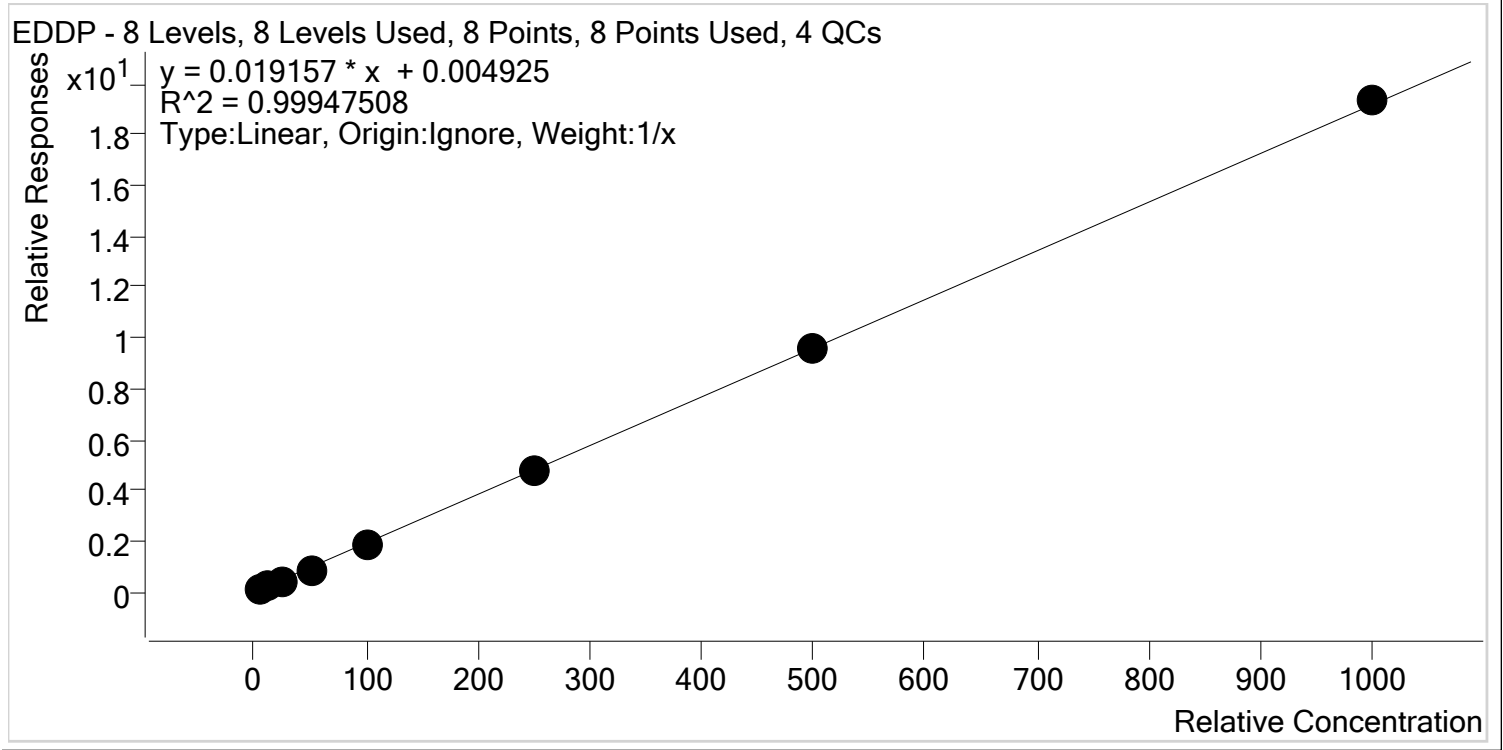


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.7	94.6
SP Cal 2- 10ng	2	✓	10.0	10.1	101.5
SP Cal 3- 25ng	3	✓	25.0	25.1	100.4
SP Cal 4-50ng	4	✓	50.0	50.4	100.9
SP Cal 5-100ng	5	✓	100.0	102.1	102.1
SP Cal 6-250ng	6	✓	250.0	251.8	100.7
SP Cal 7-500ng	7	✓	500.0	503.0	100.6
SP Cal 8-1000ng	8	✓	1000.0	992.8	99.3



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3



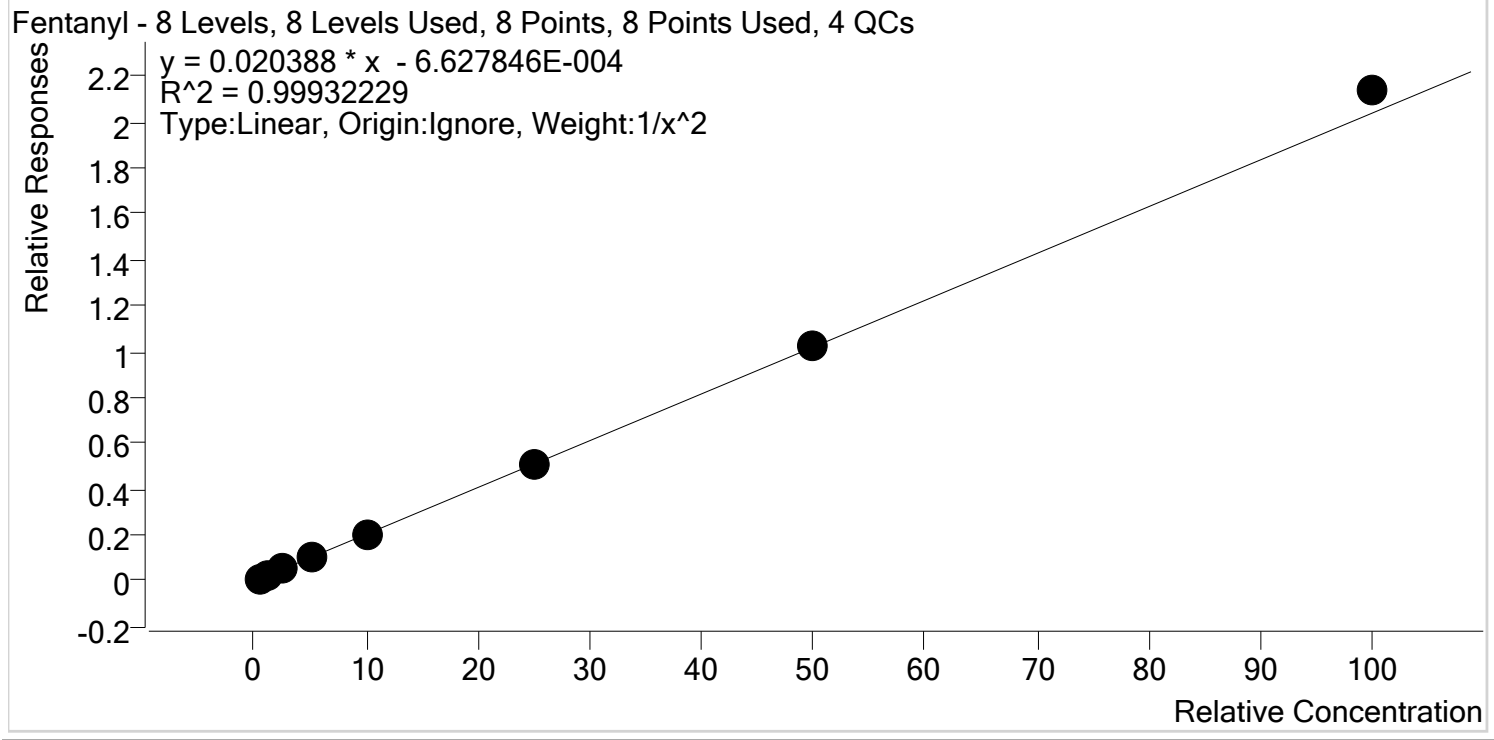
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	6.1	122.0
SP Cal 2- 10ng	2	✓	10.0	9.4	94.1
SP Cal 3- 25ng	3	✓	25.0	23.9	95.4
SP Cal 4-50ng	4	✓	50.0	46.2	92.3
SP Cal 5-100ng	5	✓	100.0	95.2	95.2
SP Cal 6-250ng	6	✓	250.0	249.6	99.8
SP Cal 7-500ng	7	✓	500.0	500.9	100.2
SP Cal 8-1000ng	8	✓	1000.0	1008.7	100.9

Did not evaluate

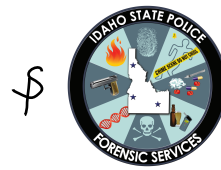


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5

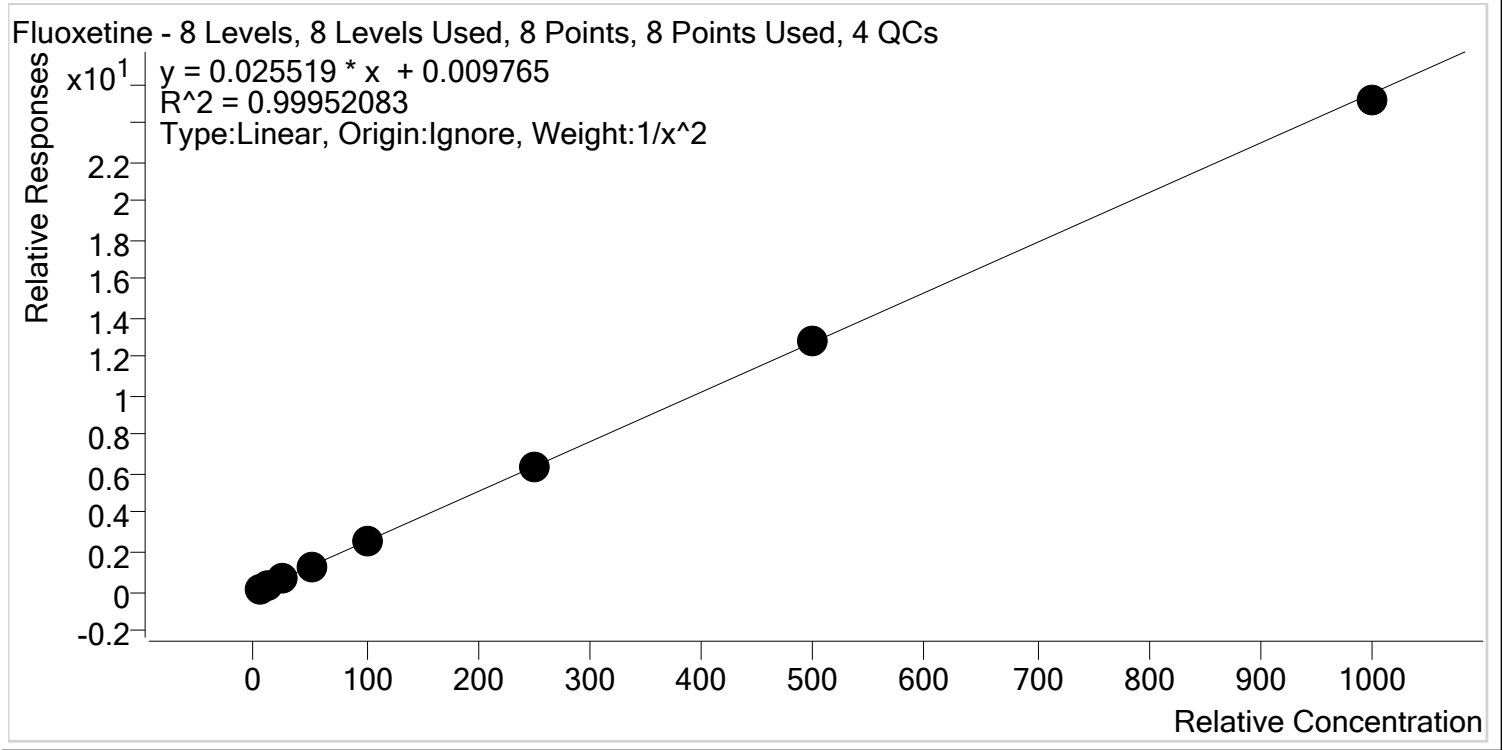


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	0.5	0.5	100.8
SP Cal 2- 10ng	2	✓	1.0	1.0	99.0
SP Cal 3- 25ng	3	✓	2.5	2.5	100.2
SP Cal 4-50ng	4	✓	5.0	4.9	97.0
SP Cal 5-100ng	5	✓	10.0	9.9	98.7
SP Cal 6-250ng	6	✓	25.0	24.9	99.6
SP Cal 7-500ng	7	✓	50.0	50.0	99.9
SP Cal 8-1000ng	8	✓	100.0	104.8	104.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6



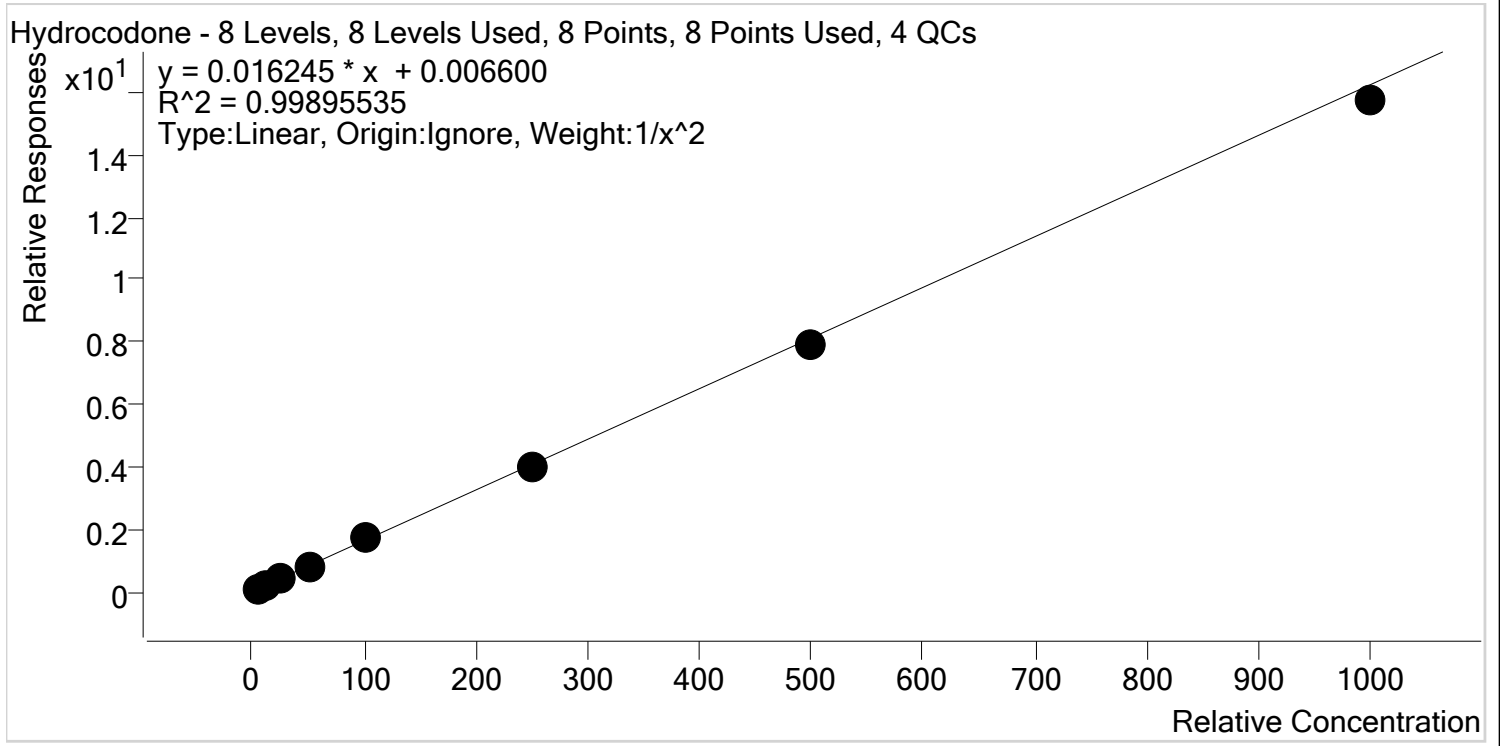
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	99.5
SP Cal 2- 10ng	2	✓	10.0	10.2	101.7
SP Cal 3- 25ng	3	✓	25.0	24.6	98.4
SP Cal 4-50ng	4	✓	50.0	49.0	98.1
SP Cal 5-100ng	5	✓	100.0	103.5	103.5
SP Cal 6-250ng	6	✓	250.0	248.5	99.4
SP Cal 7-500ng	7	✓	500.0	504.9	101.0
SP Cal 8-1000ng	8	✓	1000.0	985.2	98.5



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6



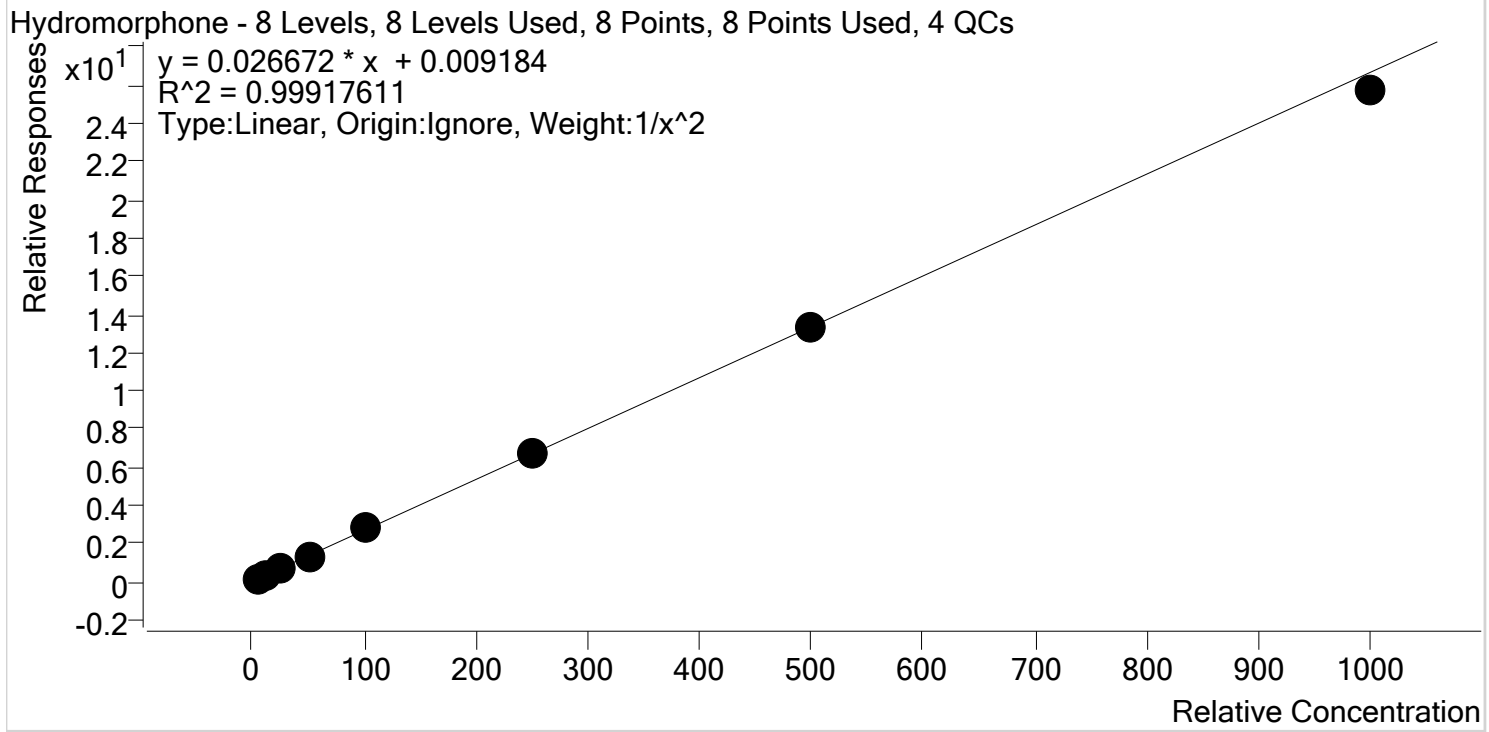
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.4
SP Cal 2- 10ng	2	✓	10.0	10.2	102.5
SP Cal 3- 25ng	3	✓	25.0	25.1	100.4
SP Cal 4-50ng	4	✓	50.0	51.0	102.0
SP Cal 5-100ng	5	✓	100.0	104.6	104.6
SP Cal 6-250ng	6	✓	250.0	245.5	98.2
SP Cal 7-500ng	7	✓	500.0	485.8	97.2
SP Cal 8-1000ng	8	✓	1000.0	968.8	96.9



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

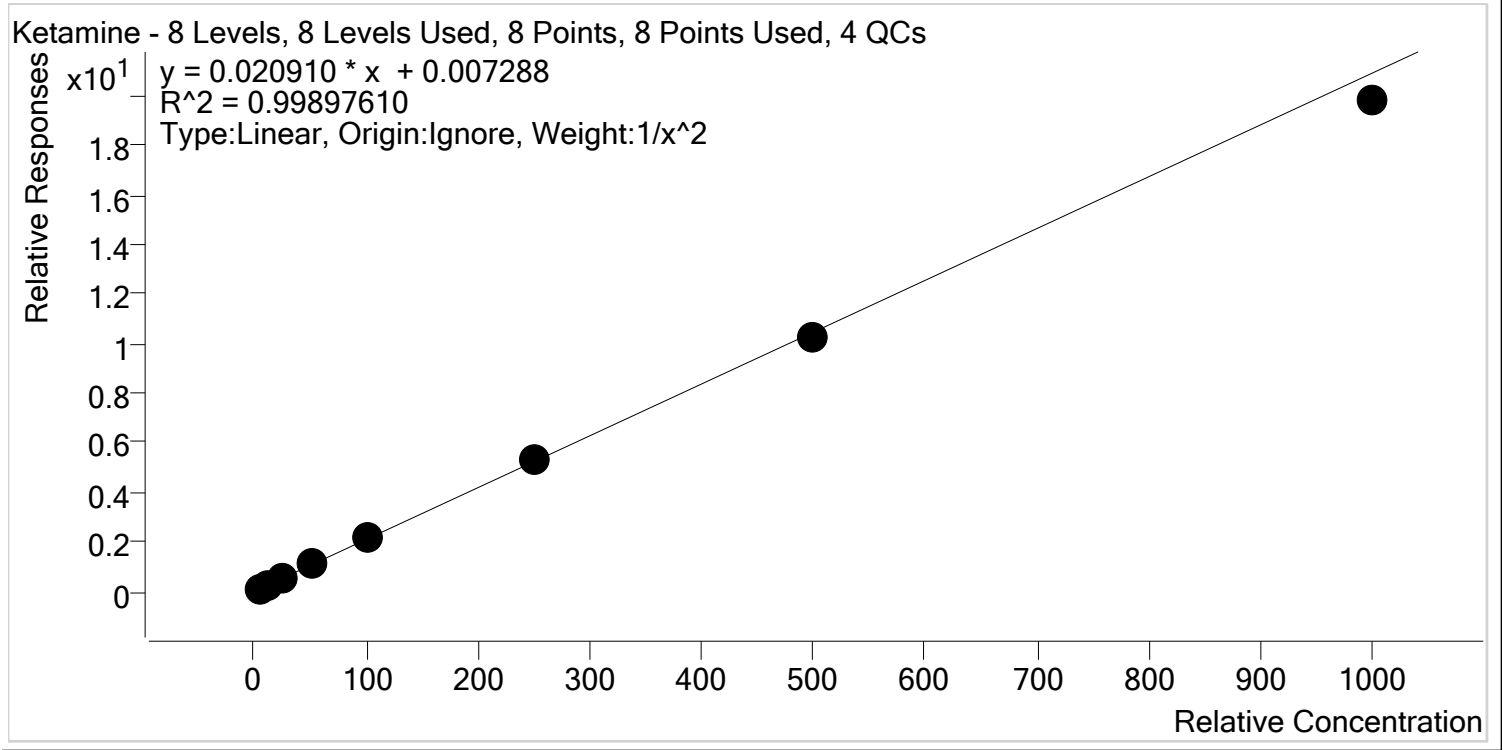


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.1
SP Cal 2- 10ng	2	✓	10.0	10.3	103.1
SP Cal 3- 25ng	3	✓	25.0	25.4	101.6
SP Cal 4-50ng	4	✓	50.0	49.5	98.9
SP Cal 5-100ng	5	✓	100.0	103.5	103.5
SP Cal 6-250ng	6	✓	250.0	247.9	99.2
SP Cal 7-500ng	7	✓	500.0	495.9	99.2
SP Cal 8-1000ng	8	✓	1000.0	964.3	96.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4



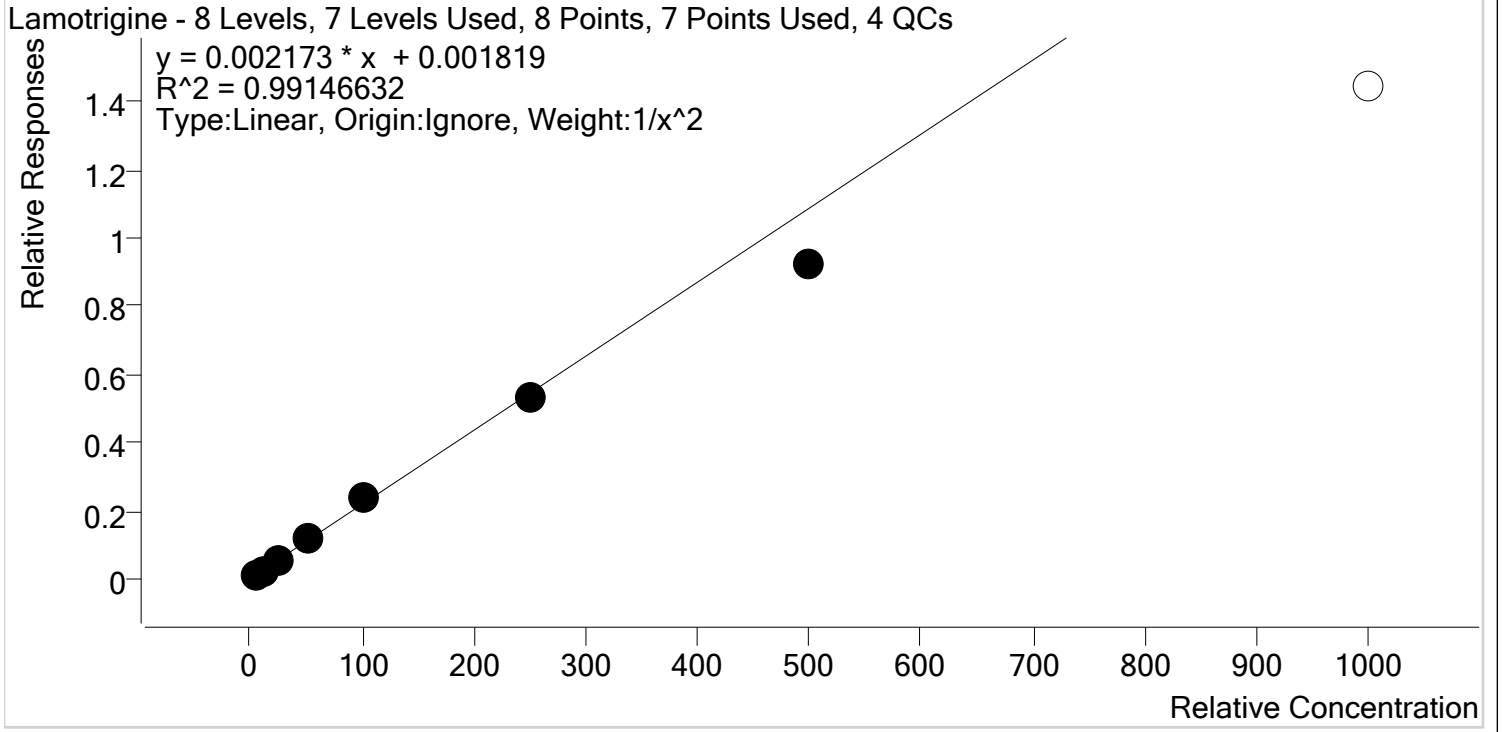
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.0
SP Cal 2- 10ng	2	✓	10.0	10.3	103.0
SP Cal 3- 25ng	3	✓	25.0	25.2	101.0
SP Cal 4-50ng	4	✓	50.0	50.9	101.7
SP Cal 5-100ng	5	✓	100.0	102.6	102.6
SP Cal 6-250ng	6	✓	250.0	251.2	100.5
SP Cal 7-500ng	7	✓	500.0	492.4	98.5
SP Cal 8-1000ng	8	✓	1000.0	947.0	94.7



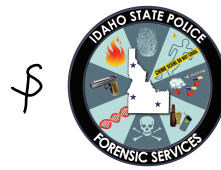
\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

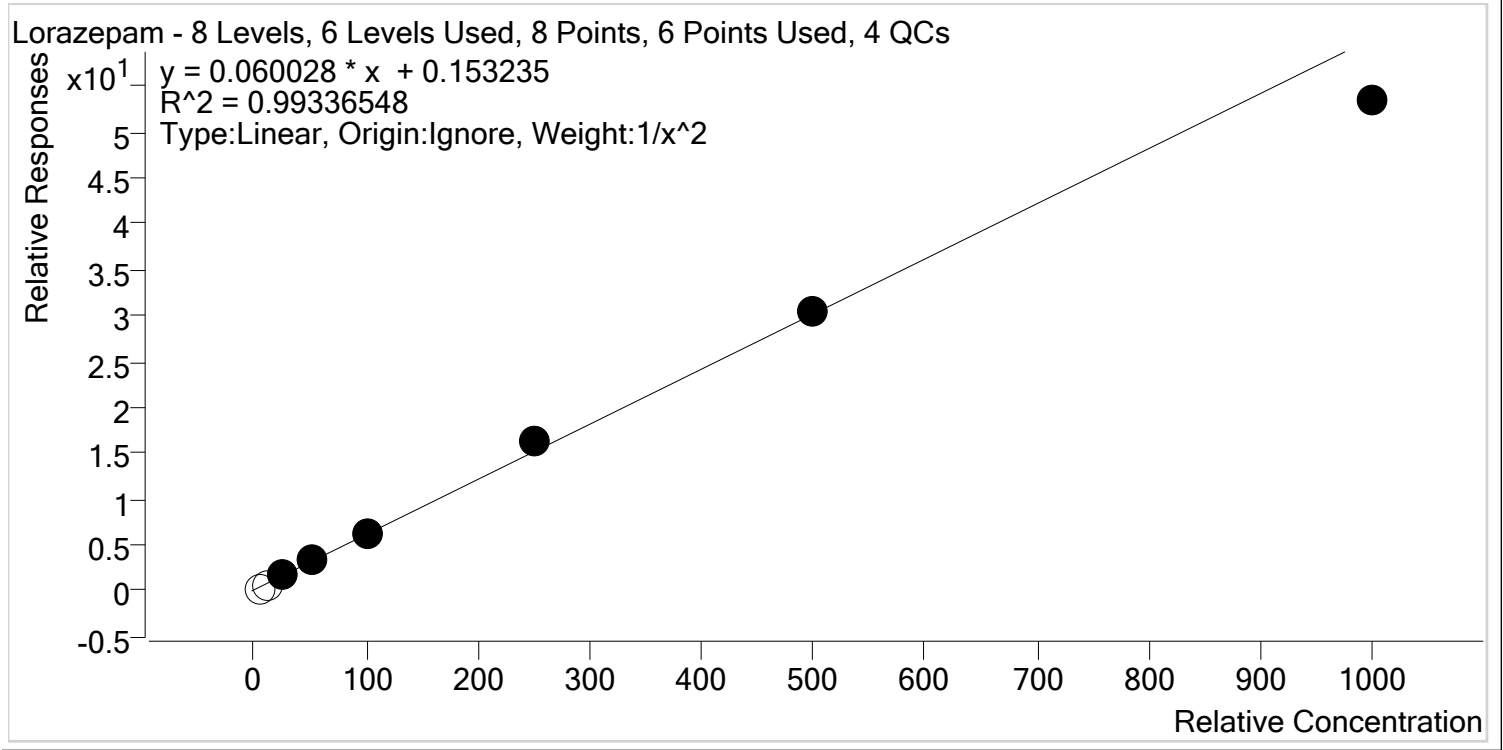


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.8	95.9
SP Cal 2- 10ng	2	✓	10.0	10.5	105.2
SP Cal 3- 25ng	3	✓	25.0	26.0	104.1
SP Cal 4-50ng	4	✓	50.0	52.7	105.3
SP Cal 5-100ng	5	✓	100.0	107.1	107.1
SP Cal 6-250ng	6	✓	250.0	243.2	97.3
SP Cal 7-500ng	7	✓	500.0	425.5	85.1
SP Cal 8-1000ng	8	✗	1000.0	664.2	66.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4



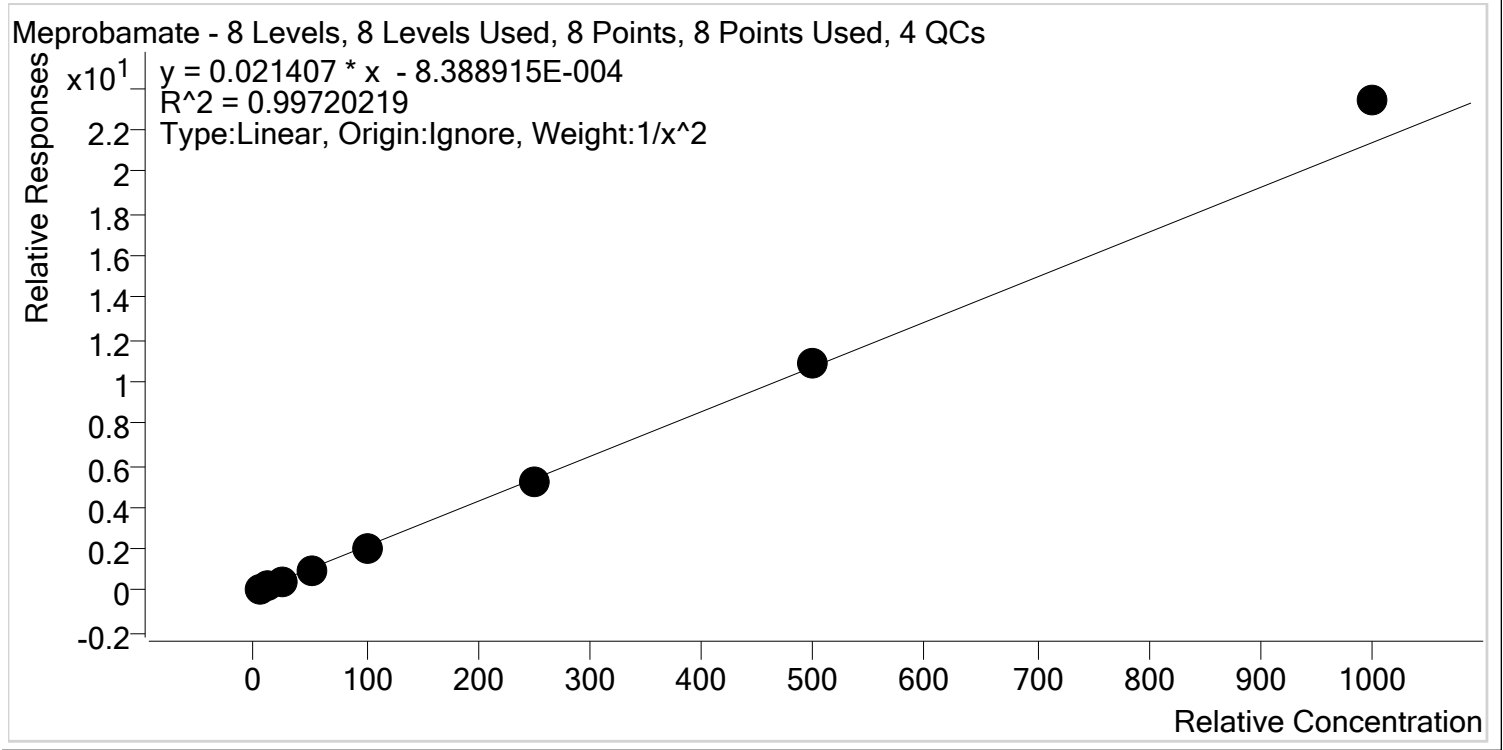
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	x	5.0	1.6	32.7
SP Cal 2- 10ng	2	x	10.0	10.1	101.5
SP Cal 3- 25ng	3	✓	25.0	24.3	97.3
SP Cal 4-50ng	4	✓	50.0	51.6	103.1
SP Cal 5-100ng	5	✓	100.0	102.3	102.3
SP Cal 6-250ng	6	✓	250.0	270.1	108.0
SP Cal 7-500ng	7	✓	500.0	502.7	100.5
SP Cal 8-1000ng	8	✓	1000.0	887.2	88.7

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

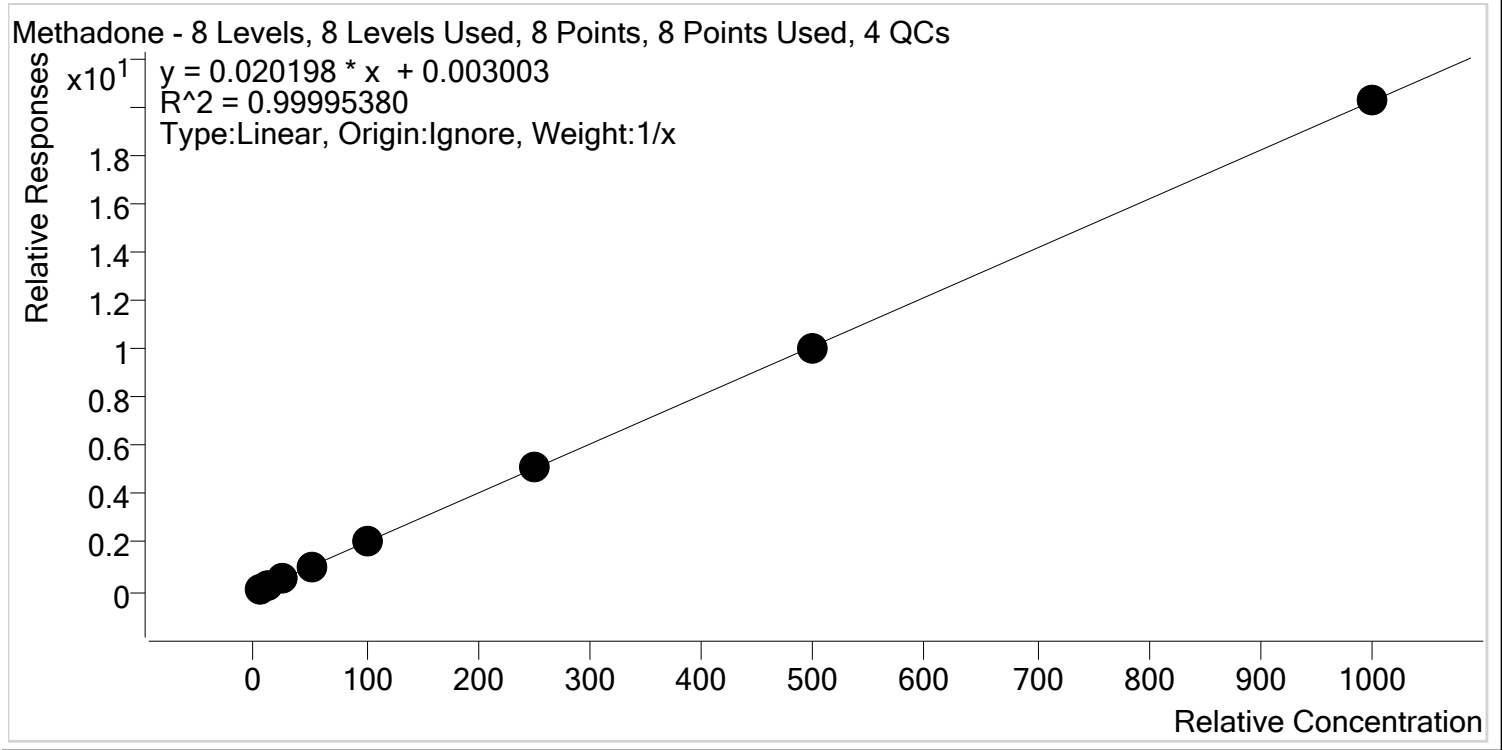


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.2	103.5
SP Cal 2- 10ng	2	✓	10.0	9.4	94.5
SP Cal 3- 25ng	3	✓	25.0	24.4	97.7
SP Cal 4-50ng	4	✓	50.0	49.1	98.2
SP Cal 5-100ng	5	✓	100.0	97.9	97.9
SP Cal 6-250ng	6	✓	250.0	245.1	98.0
SP Cal 7-500ng	7	✓	500.0	504.1	100.8
SP Cal 8-1000ng	8	✓	1000.0	1093.8	109.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

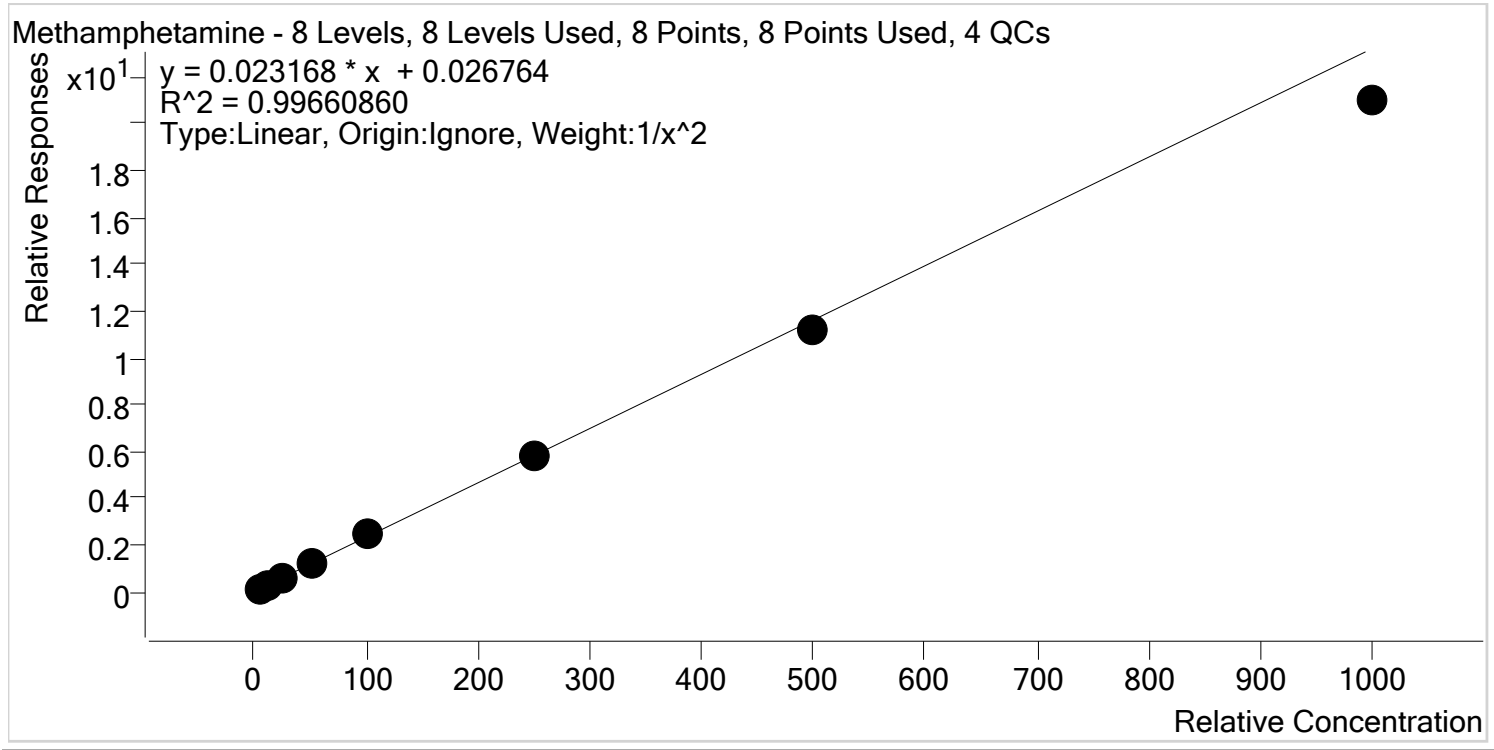


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.5
SP Cal 2- 10ng	2	✓	10.0	10.2	101.7
SP Cal 3- 25ng	3	✓	25.0	25.2	100.7
SP Cal 4-50ng	4	✓	50.0	48.9	97.8
SP Cal 5-100ng	5	✓	100.0	101.2	101.2
SP Cal 6-250ng	6	✓	250.0	251.8	100.7
SP Cal 7-500ng	7	✓	500.0	496.6	99.3
SP Cal 8-1000ng	8	✓	1000.0	1001.2	100.1



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11



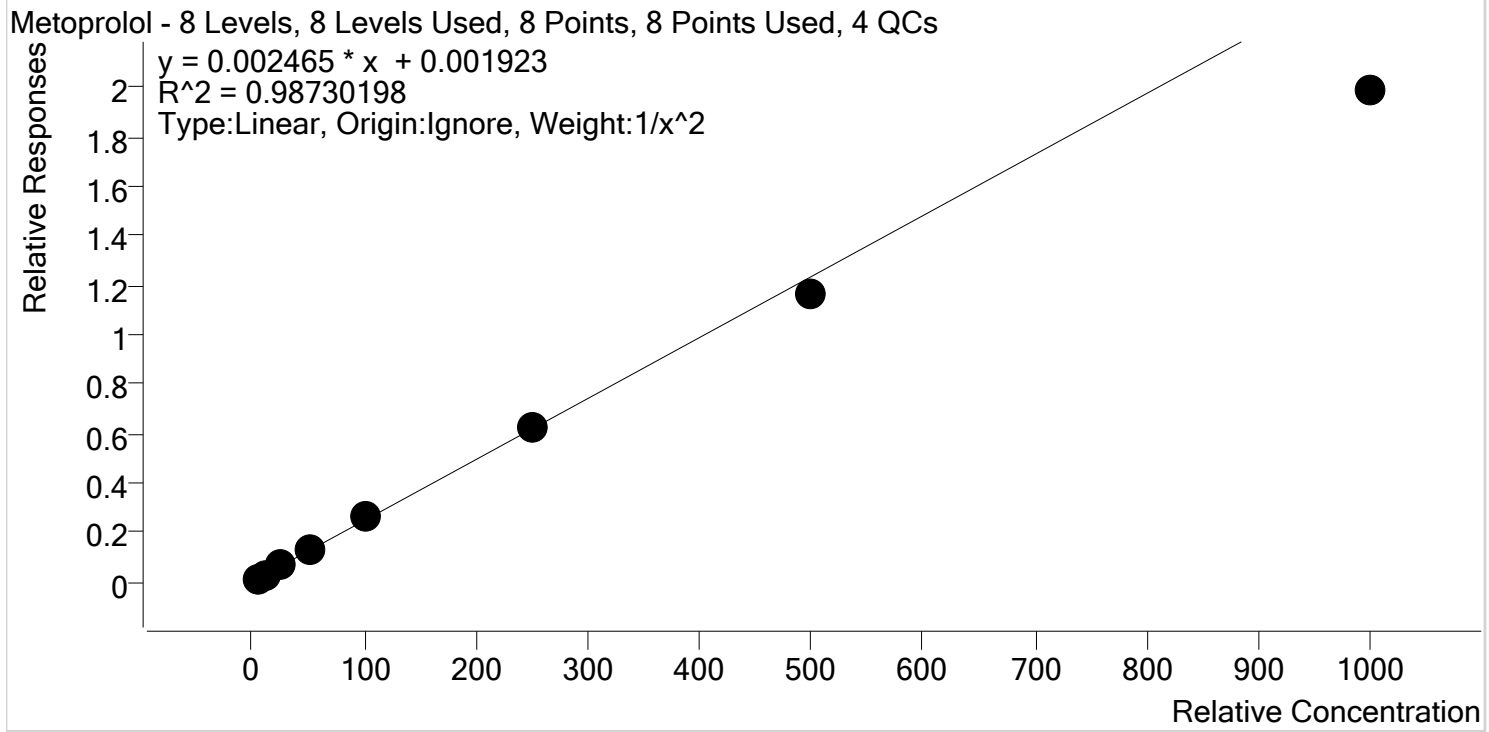
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	97.8
SP Cal 2- 10ng	2	✓	10.0	10.1	100.8
SP Cal 3- 25ng	3	✓	25.0	26.4	105.6
SP Cal 4-50ng	4	✓	50.0	52.7	105.5
SP Cal 5-100ng	5	✓	100.0	103.4	103.4
SP Cal 6-250ng	6	✓	250.0	248.5	99.4
SP Cal 7-500ng	7	✓	500.0	485.2	97.0
SP Cal 8-1000ng	8	✓	1000.0	904.2	90.4

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

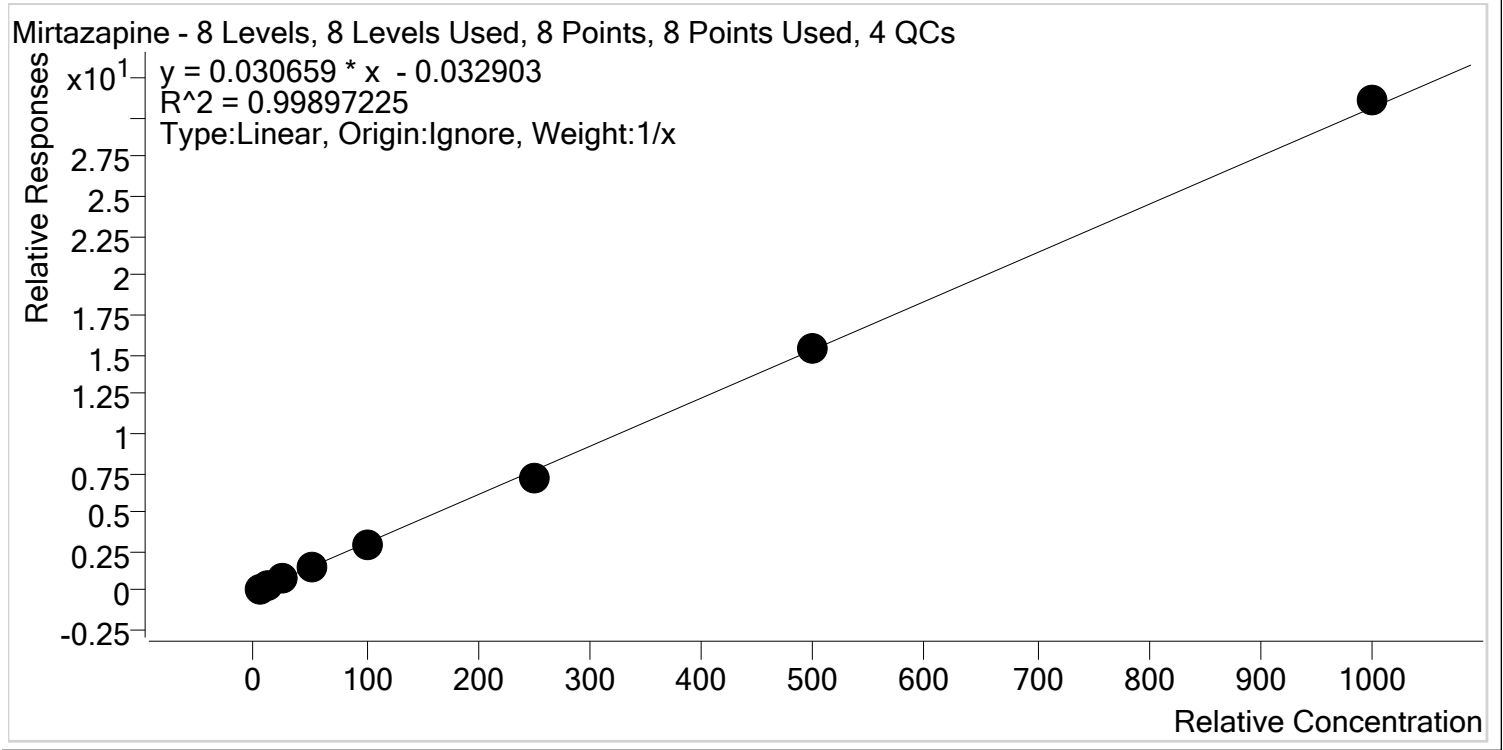


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.7	94.3
SP Cal 2- 10ng	2	✓	10.0	10.6	105.9
SP Cal 3- 25ng	3	✓	25.0	27.3	109.0
SP Cal 4-50ng	4	✓	50.0	53.4	106.7
SP Cal 5-100ng	5	✓	100.0	107.8	107.8
SP Cal 6-250ng	6	✓	250.0	255.1	102.0
SP Cal 7-500ng	7	✓	500.0	468.9	93.8
SP Cal 8-1000ng	8	✓	1000.0	804.8	80.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

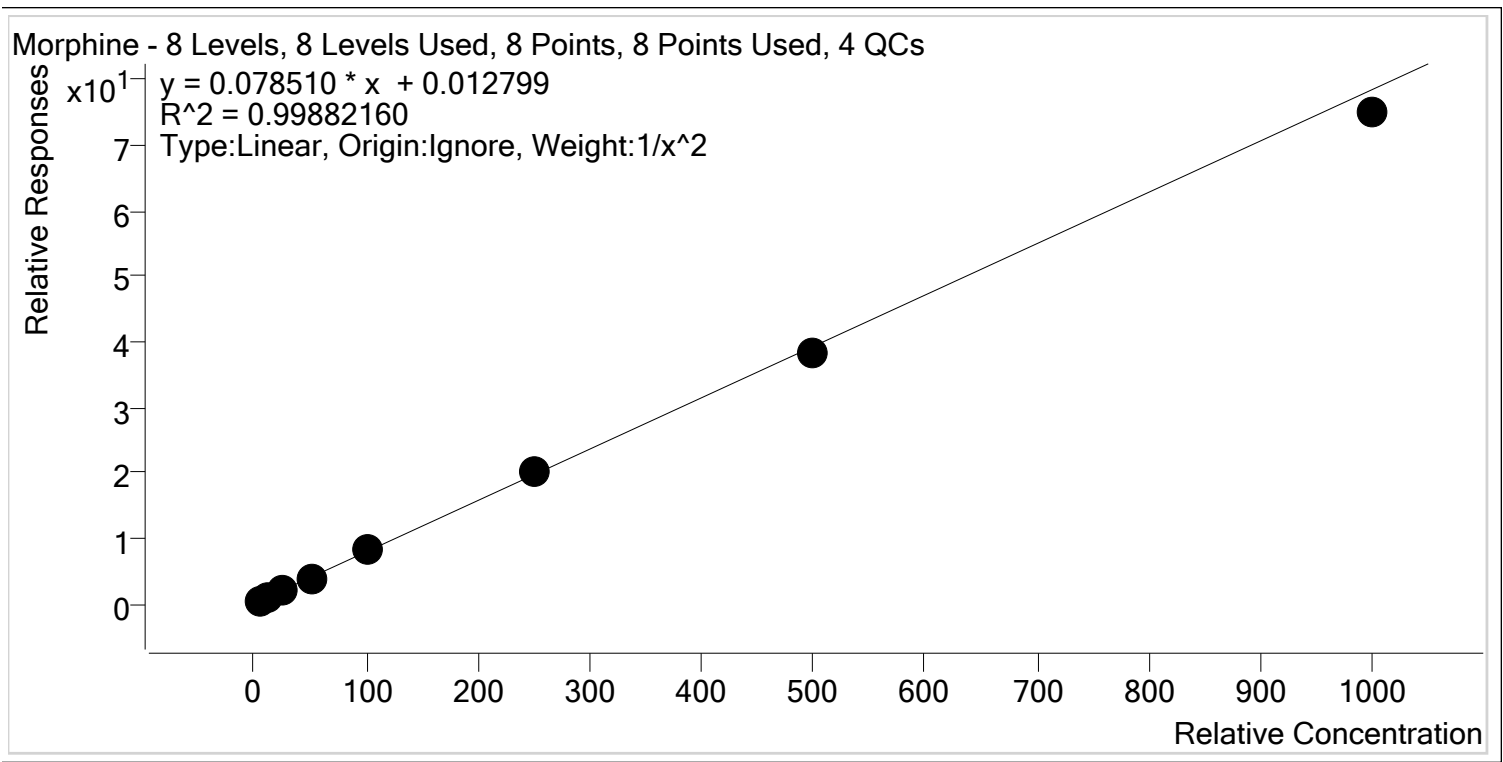


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.7	113.3
SP Cal 2- 10ng	2	✓	10.0	9.9	99.0
SP Cal 3- 25ng	3	✓	25.0	24.2	97.0
SP Cal 4-50ng	4	✓	50.0	48.0	95.9
SP Cal 5-100ng	5	✓	100.0	99.3	99.3
SP Cal 6-250ng	6	✓	250.0	231.8	92.7
SP Cal 7-500ng	7	✓	500.0	506.3	101.3
SP Cal 8-1000ng	8	✓	1000.0	1014.8	101.5



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	97.3
SP Cal 2- 10ng	2	✓	10.0	10.5	104.8
SP Cal 3- 25ng	3	✓	25.0	25.3	101.3
SP Cal 4-50ng	4	✓	50.0	49.6	99.3
SP Cal 5-100ng	5	✓	100.0	101.7	101.7
SP Cal 6-250ng	6	✓	250.0	254.7	101.9
SP Cal 7-500ng	7	✓	500.0	490.8	98.2
SP Cal 8-1000ng	8	✓	1000.0	955.3	95.5

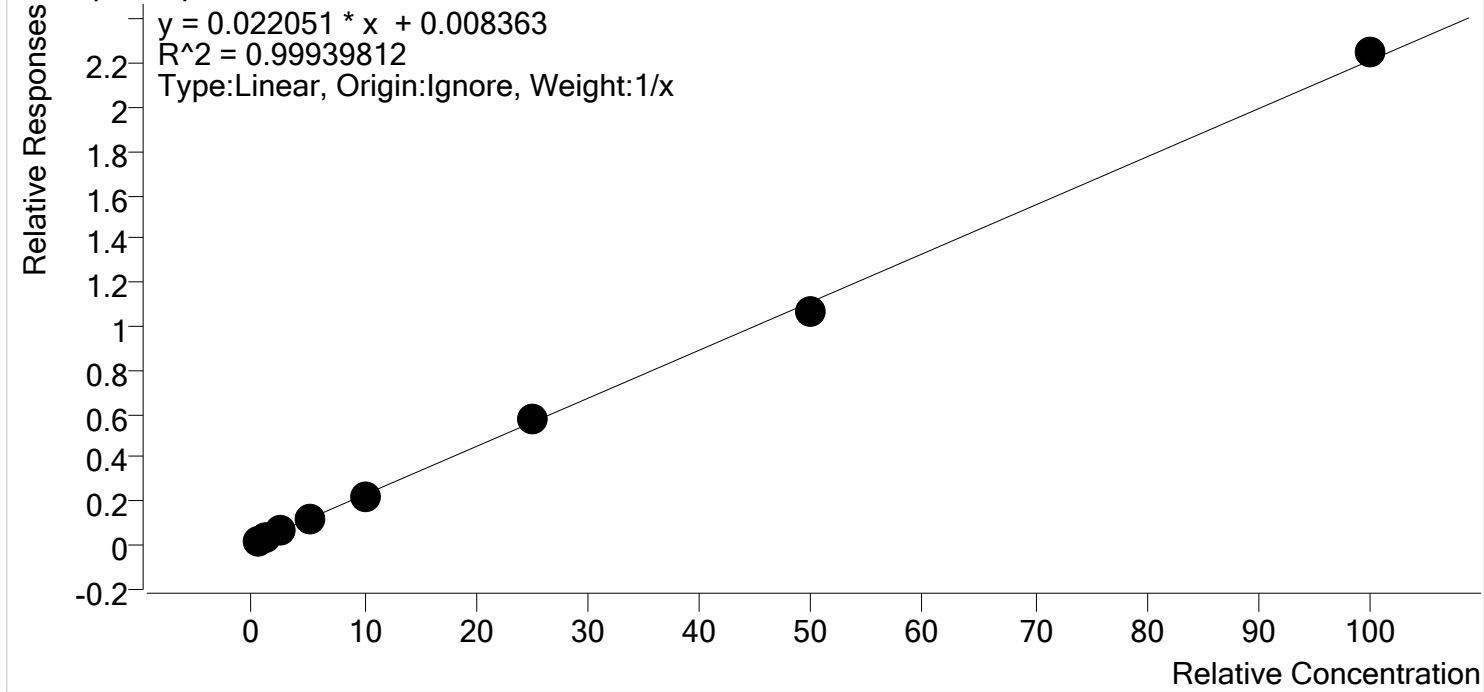


\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 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
SP Cal 1-5ng	1	✓	0.5	0.5	101.2
SP Cal 2- 10ng	2	✓	1.0	1.0	102.0
SP Cal 3- 25ng	3	✓	2.5	2.6	102.4
SP Cal 4-50ng	4	✓	5.0	4.8	95.9
SP Cal 5-100ng	5	✓	10.0	9.9	98.9
SP Cal 6-250ng	6	✓	25.0	25.4	101.5
SP Cal 7-500ng	7	✓	50.0	48.2	96.4
SP Cal 8-1000ng	8	✓	100.0	101.6	101.6

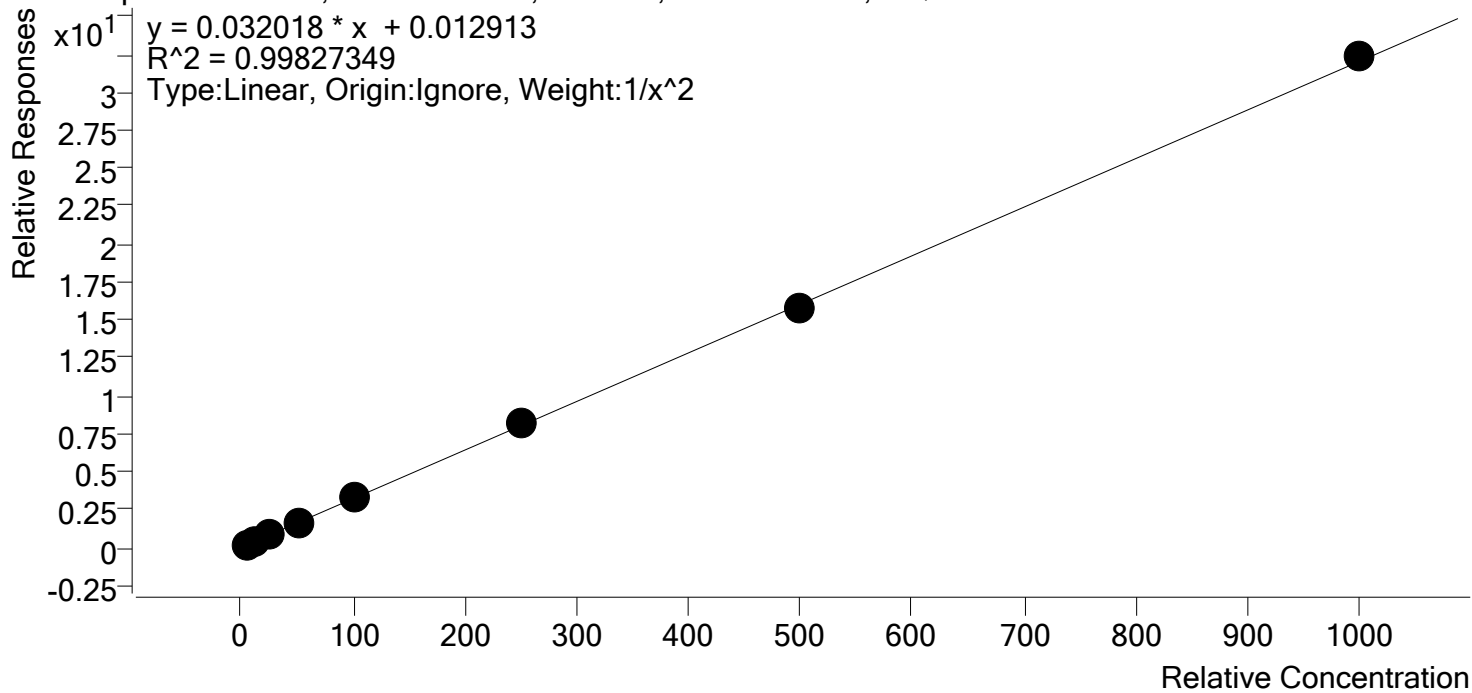


AM #28 Multi-Drug Quant. Calibration Curve Report

\$

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

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



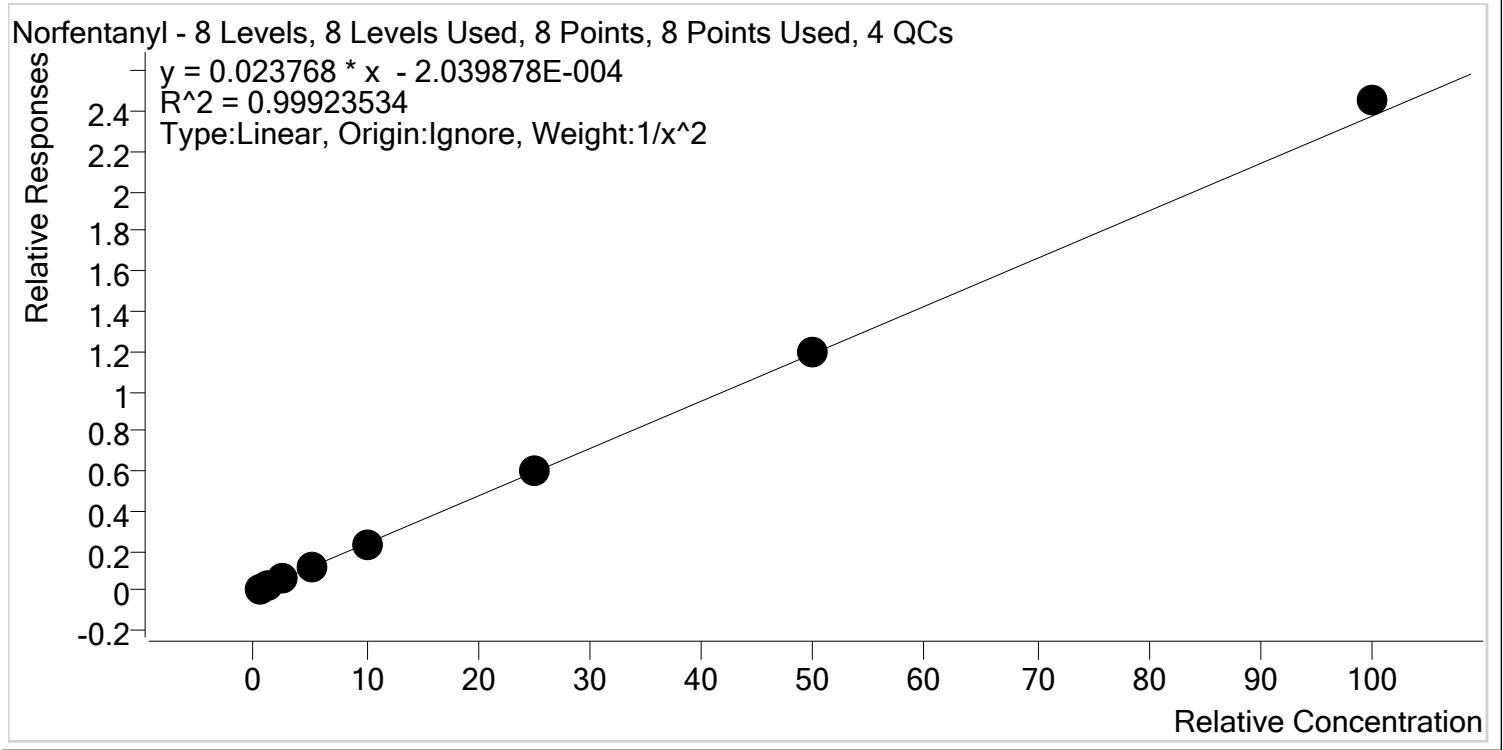
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.1	101.2
SP Cal 2- 10ng	2	✓	10.0	10.0	100.2
SP Cal 3- 25ng	3	✓	25.0	23.1	92.6
SP Cal 4-50ng	4	✓	50.0	49.6	99.3
SP Cal 5-100ng	5	✓	100.0	105.4	105.4
SP Cal 6-250ng	6	✓	250.0	254.0	101.6
SP Cal 7-500ng	7	✓	500.0	494.0	98.8
SP Cal 8-1000ng	8	✓	1000.0	1010.1	101.0

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5



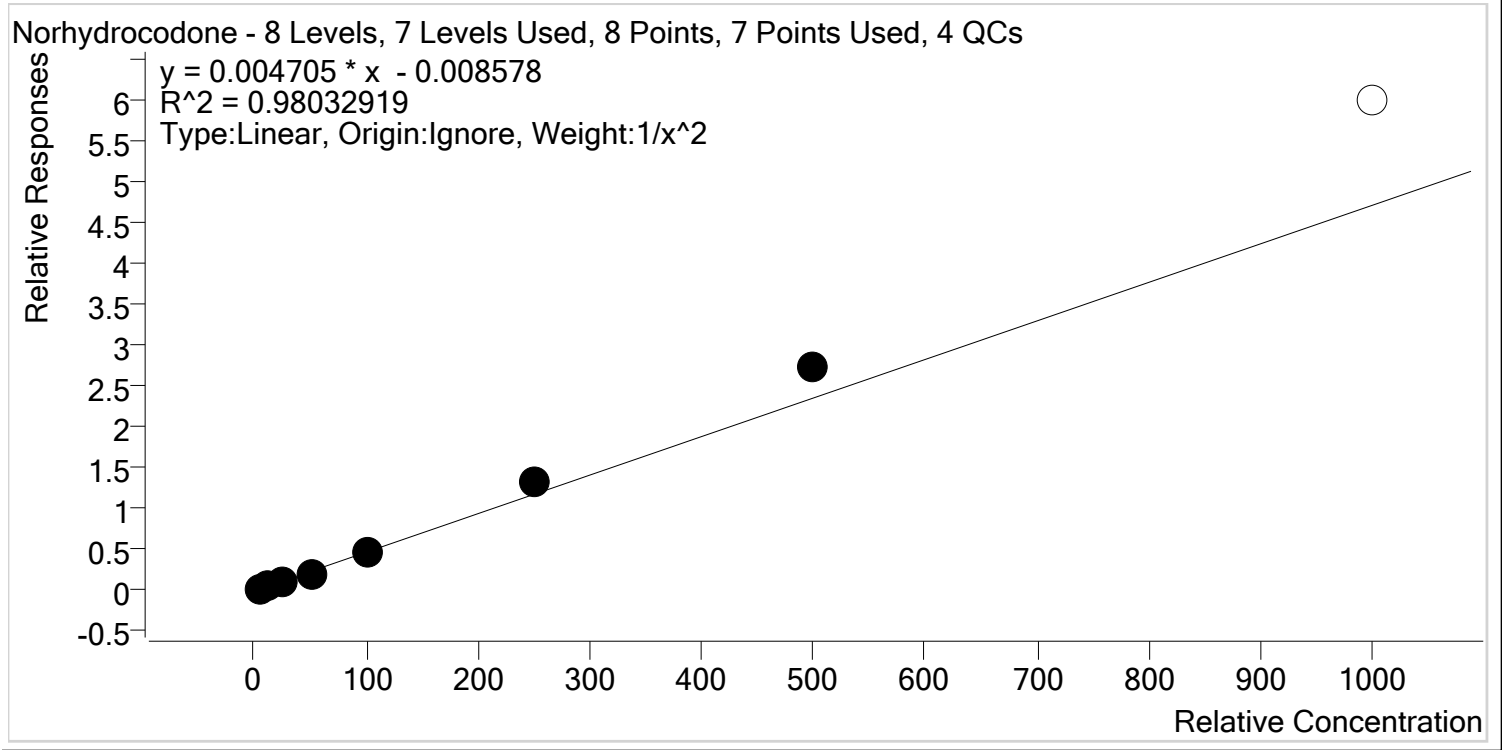
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	0.5	0.5	100.6
SP Cal 2- 10ng	2	✓	1.0	1.0	100.6
SP Cal 3- 25ng	3	✓	2.5	2.4	96.7
SP Cal 4-50ng	4	✓	5.0	4.8	96.1
SP Cal 5-100ng	5	✓	10.0	10.1	101.3
SP Cal 6-250ng	6	✓	25.0	25.2	100.6
SP Cal 7-500ng	7	✓	50.0	50.4	100.8
SP Cal 8-1000ng	8	✓	100.0	103.3	103.3

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.3	106.4
SP Cal 2- 10ng	2	✓	10.0	9.6	95.6
SP Cal 3- 25ng	3	✓	25.0	20.9	83.4
SP Cal 4-50ng	4	✓	50.0	43.7	87.5
SP Cal 5-100ng	5	✓	100.0	100.3	100.3
SP Cal 6-250ng	6	✓	250.0	278.7	111.5
SP Cal 7-500ng	7	✓	500.0	576.8	115.4
SP Cal 8-1000ng	8	✗	1000.0	1271.8	127.2

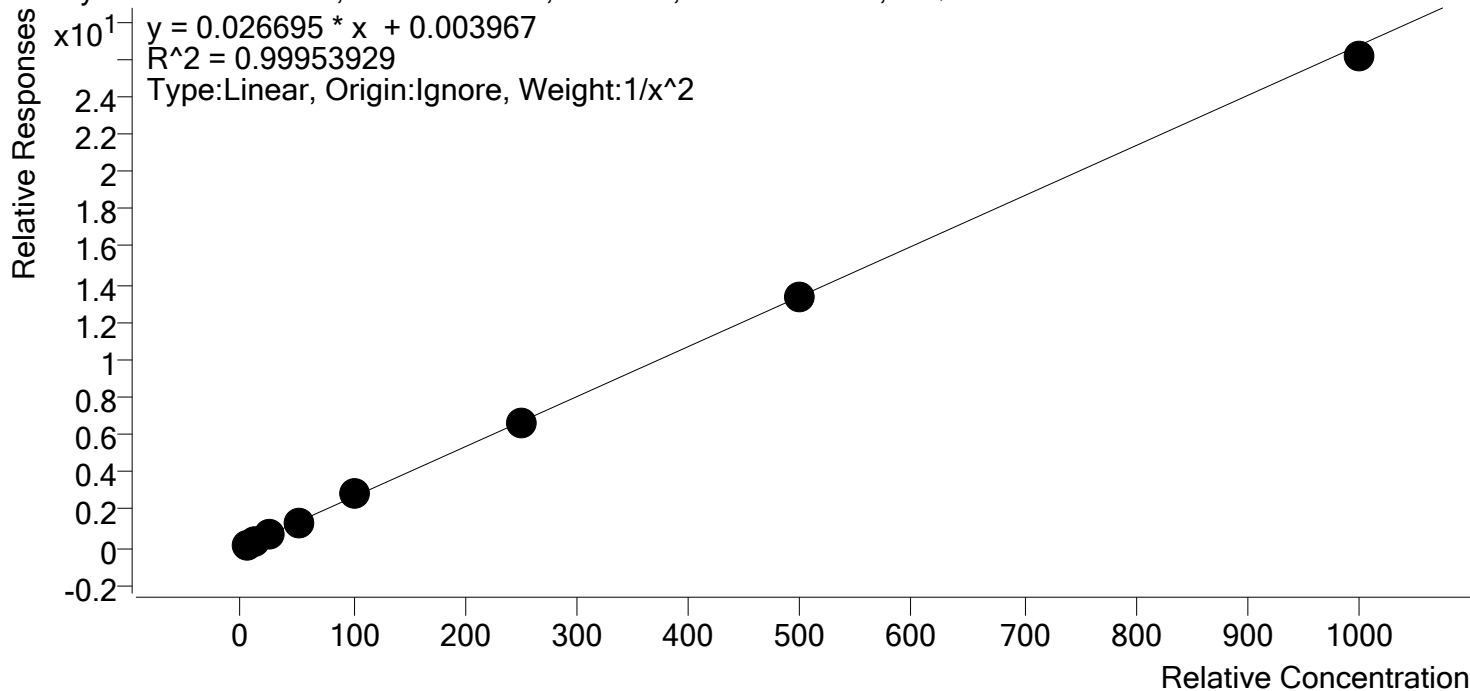
\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

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

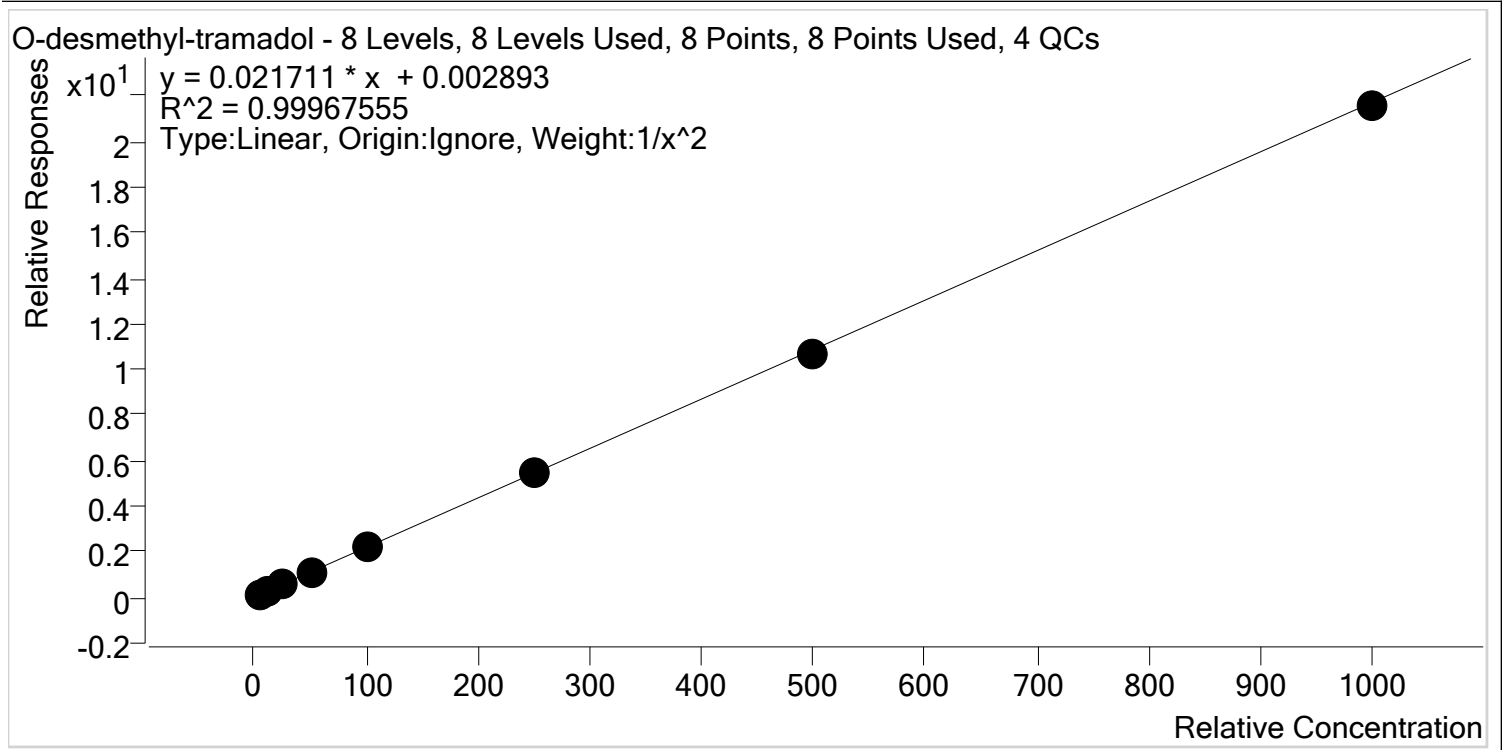


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	99.3
SP Cal 2- 10ng	2	✓	10.0	10.2	101.8
SP Cal 3- 25ng	3	✓	25.0	24.6	98.6
SP Cal 4-50ng	4	✓	50.0	49.5	99.0
SP Cal 5-100ng	5	✓	100.0	103.5	103.5
SP Cal 6-250ng	6	✓	250.0	250.9	100.4
SP Cal 7-500ng	7	✓	500.0	498.5	99.7
SP Cal 8-1000ng	8	✓	1000.0	977.7	97.8



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



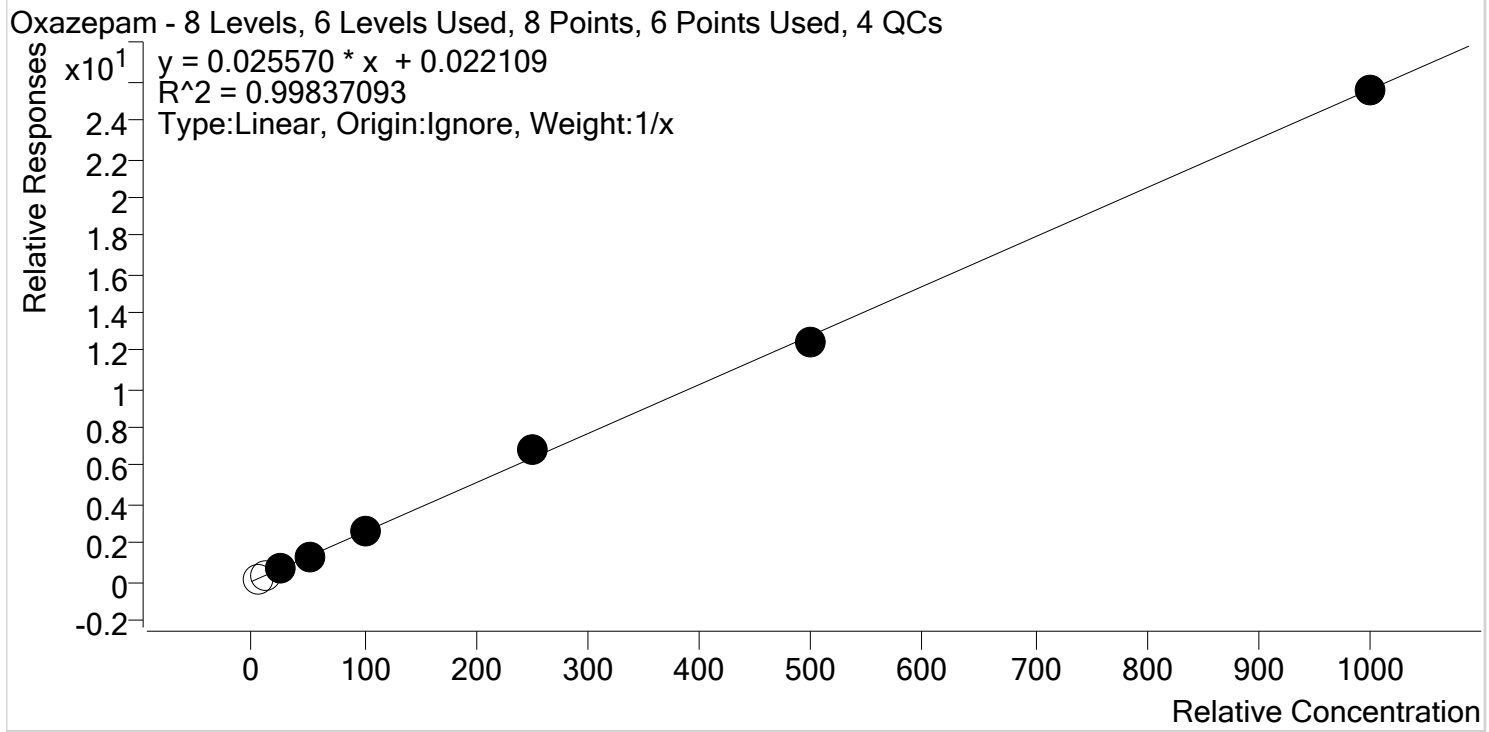
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.5
SP Cal 2- 10ng	2	✓	10.0	10.3	103.2
SP Cal 3- 25ng	3	✓	25.0	24.8	99.4
SP Cal 4-50ng	4	✓	50.0	49.8	99.5
SP Cal 5-100ng	5	✓	100.0	101.5	101.5
SP Cal 6-250ng	6	✓	250.0	249.4	99.8
SP Cal 7-500ng	7	✓	500.0	494.3	98.9
SP Cal 8-1000ng	8	✓	1000.0	992.2	99.2



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5



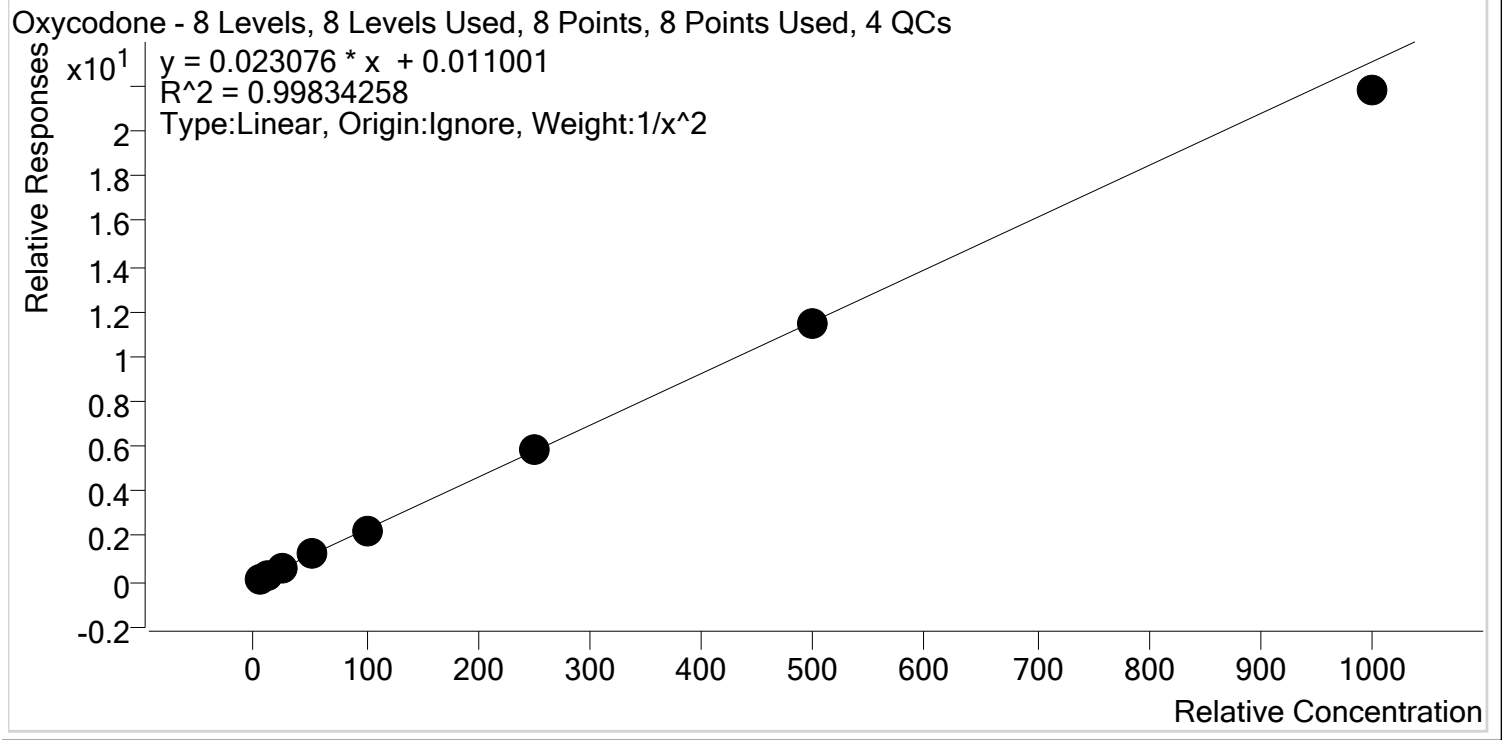
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	x	5.0	4.8	96.9
SP Cal 2- 10ng	2	x	10.0	9.5	94.5
SP Cal 3- 25ng	3	✓	25.0	24.5	98.0
SP Cal 4-50ng	4	✓	50.0	48.3	96.5
SP Cal 5-100ng	5	✓	100.0	100.8	100.8
SP Cal 6-250ng	6	✓	250.0	270.7	108.3
SP Cal 7-500ng	7	✓	500.0	482.9	96.6
SP Cal 8-1000ng	8	✓	1000.0	997.9	99.8

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

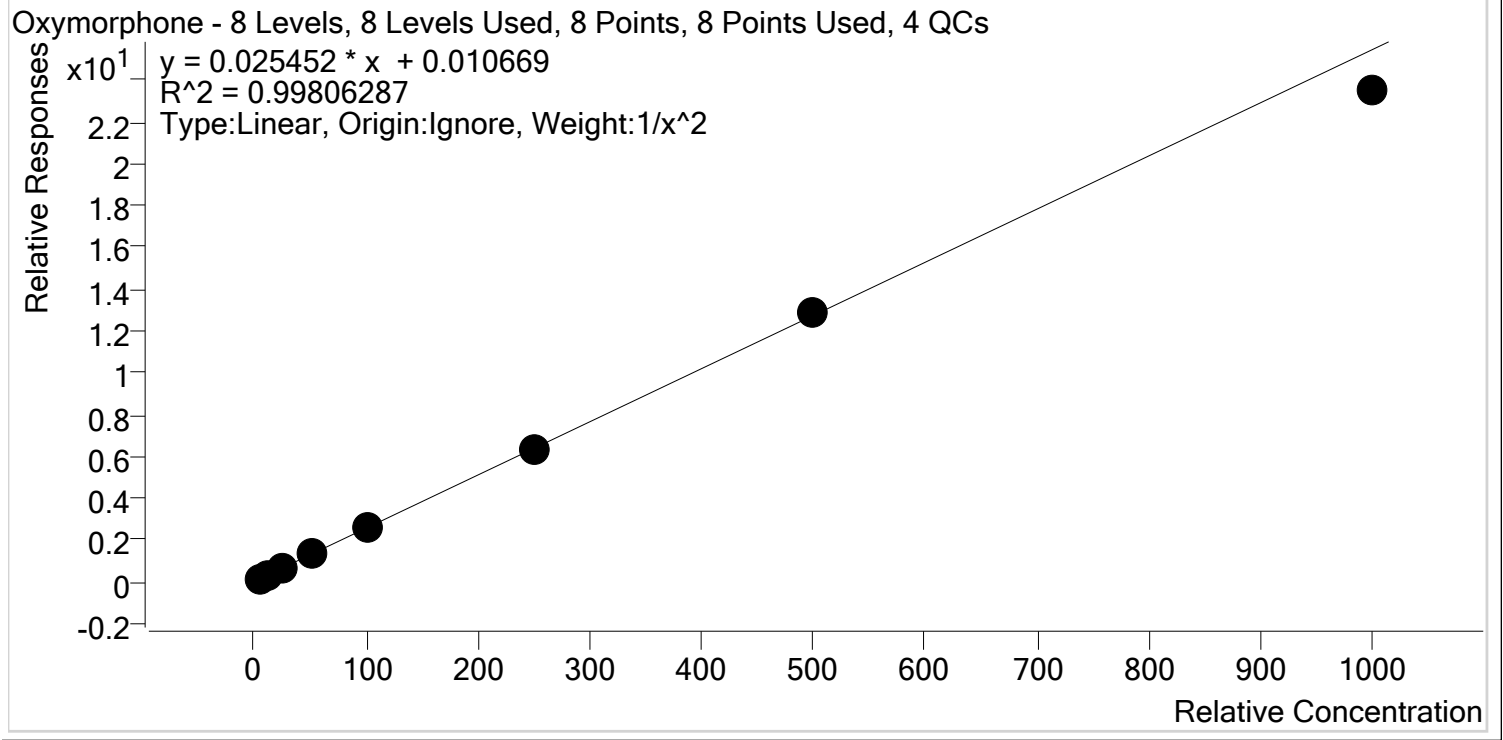


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	97.1
SP Cal 2- 10ng	2	✓	10.0	10.4	103.6
SP Cal 3- 25ng	3	✓	25.0	26.4	105.5
SP Cal 4-50ng	4	✓	50.0	50.7	101.4
SP Cal 5-100ng	5	✓	100.0	98.8	98.8
SP Cal 6-250ng	6	✓	250.0	250.8	100.3
SP Cal 7-500ng	7	✓	500.0	494.3	98.9
SP Cal 8-1000ng	8	✓	1000.0	944.4	94.4



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3



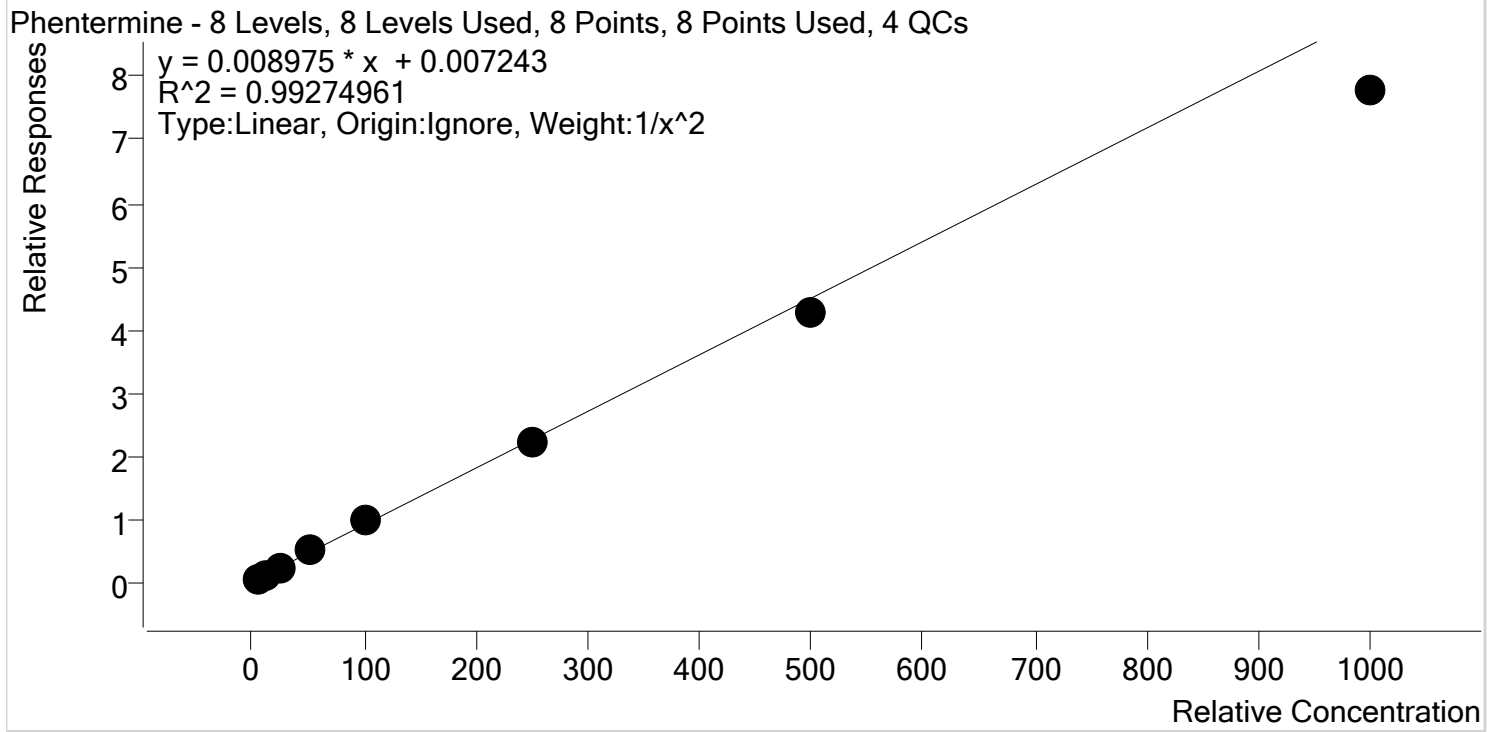
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	97.3
SP Cal 2- 10ng	2	✓	10.0	10.5	104.6
SP Cal 3- 25ng	3	✓	25.0	25.1	100.2
SP Cal 4-50ng	4	✓	50.0	51.7	103.4
SP Cal 5-100ng	5	✓	100.0	101.7	101.7
SP Cal 6-250ng	6	✓	250.0	249.8	99.9
SP Cal 7-500ng	7	✓	500.0	502.7	100.5
SP Cal 8-1000ng	8	✓	1000.0	923.0	92.3



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5



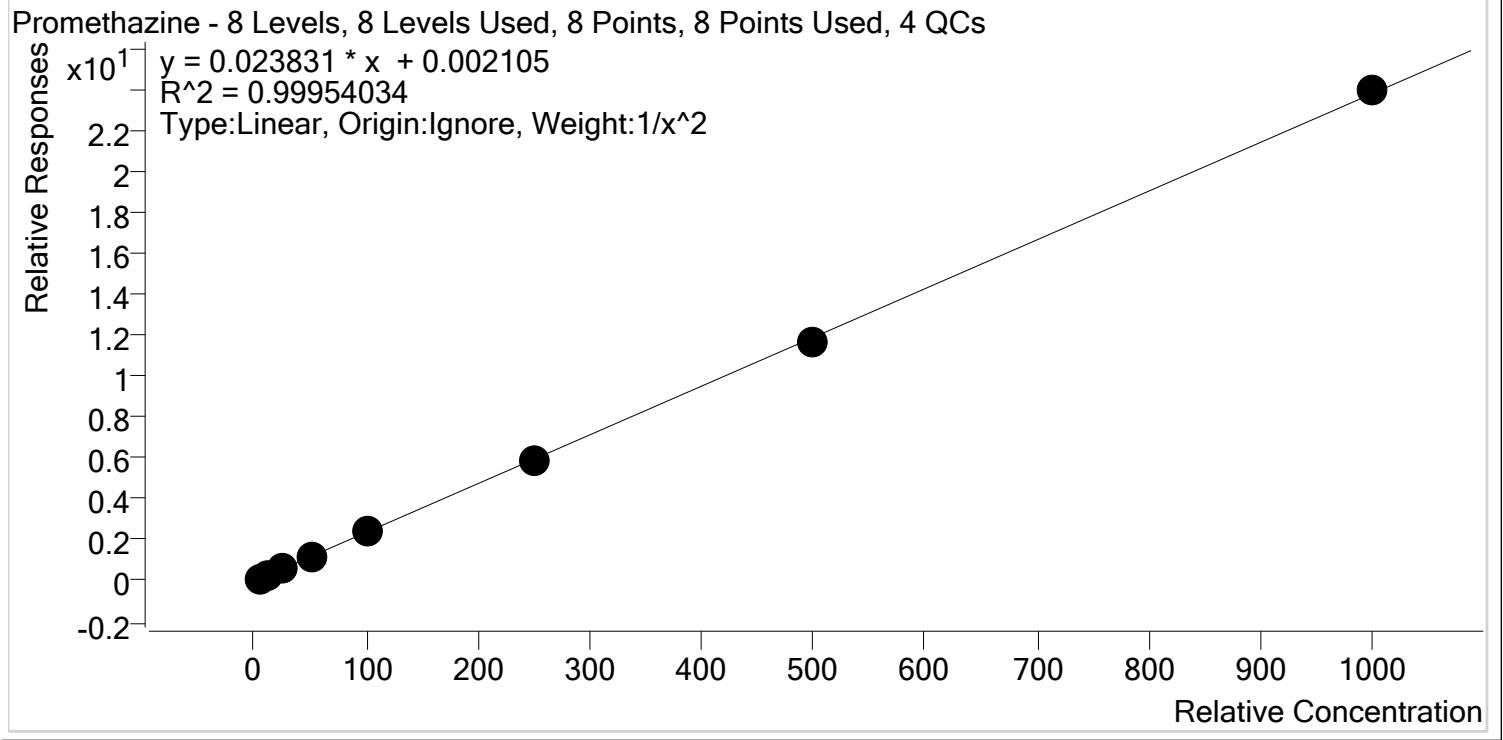
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.8	95.2
SP Cal 2- 10ng	2	✓	10.0	10.6	105.8
SP Cal 3- 25ng	3	✓	25.0	26.4	105.7
SP Cal 4-50ng	4	✓	50.0	52.8	105.7
SP Cal 5-100ng	5	✓	100.0	107.3	107.3
SP Cal 6-250ng	6	✓	250.0	248.3	99.3
SP Cal 7-500ng	7	✓	500.0	472.1	94.4
SP Cal 8-1000ng	8	✓	1000.0	866.3	86.6

\$



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3



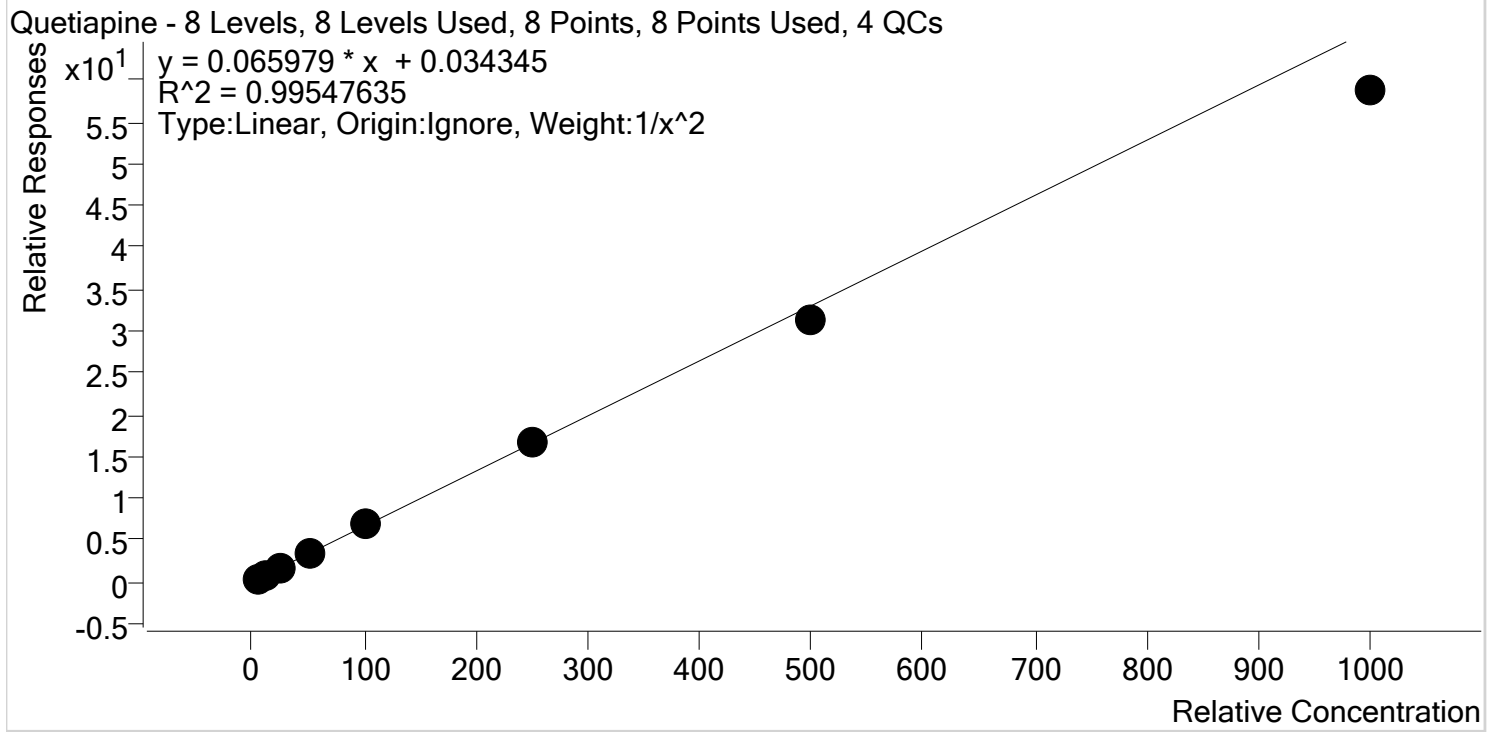
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.1
SP Cal 2- 10ng	2	✓	10.0	10.3	103.1
SP Cal 3- 25ng	3	✓	25.0	25.6	102.3
SP Cal 4-50ng	4	✓	50.0	49.7	99.4
SP Cal 5-100ng	5	✓	100.0	99.0	99.0
SP Cal 6-250ng	6	✓	250.0	247.8	99.1
SP Cal 7-500ng	7	✓	500.0	491.3	98.3
SP Cal 8-1000ng	8	✓	1000.0	1006.4	100.6

\$

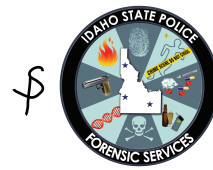


AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

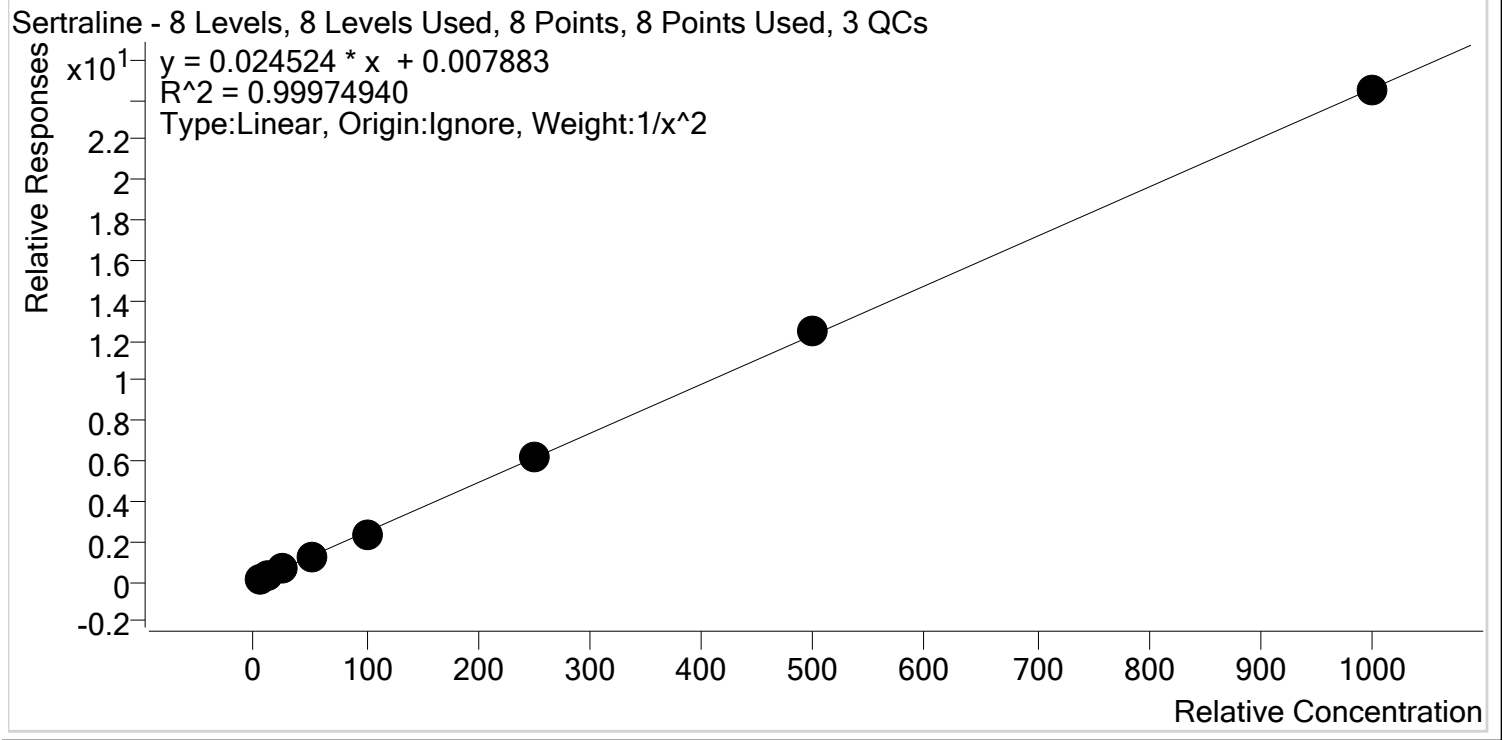


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.8	96.9
SP Cal 2- 10ng	2	✓	10.0	10.3	102.8
SP Cal 3- 25ng	3	✓	25.0	26.5	106.0
SP Cal 4-50ng	4	✓	50.0	51.8	103.6
SP Cal 5-100ng	5	✓	100.0	104.9	104.9
SP Cal 6-250ng	6	✓	250.0	254.8	101.9
SP Cal 7-500ng	7	✓	500.0	474.8	95.0
SP Cal 8-1000ng	8	✓	1000.0	890.2	89.0



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	100.1
SP Cal 2- 10ng	2	✓	10.0	10.0	100.3
SP Cal 3- 25ng	3	✓	25.0	24.7	98.6
SP Cal 4-50ng	4	✓	50.0	50.5	101.1
SP Cal 5-100ng	5	✓	100.0	97.6	97.6
SP Cal 6-250ng	6	✓	250.0	252.1	100.8
SP Cal 7-500ng	7	✓	500.0	509.1	101.8
SP Cal 8-1000ng	8	✓	1000.0	996.2	99.6

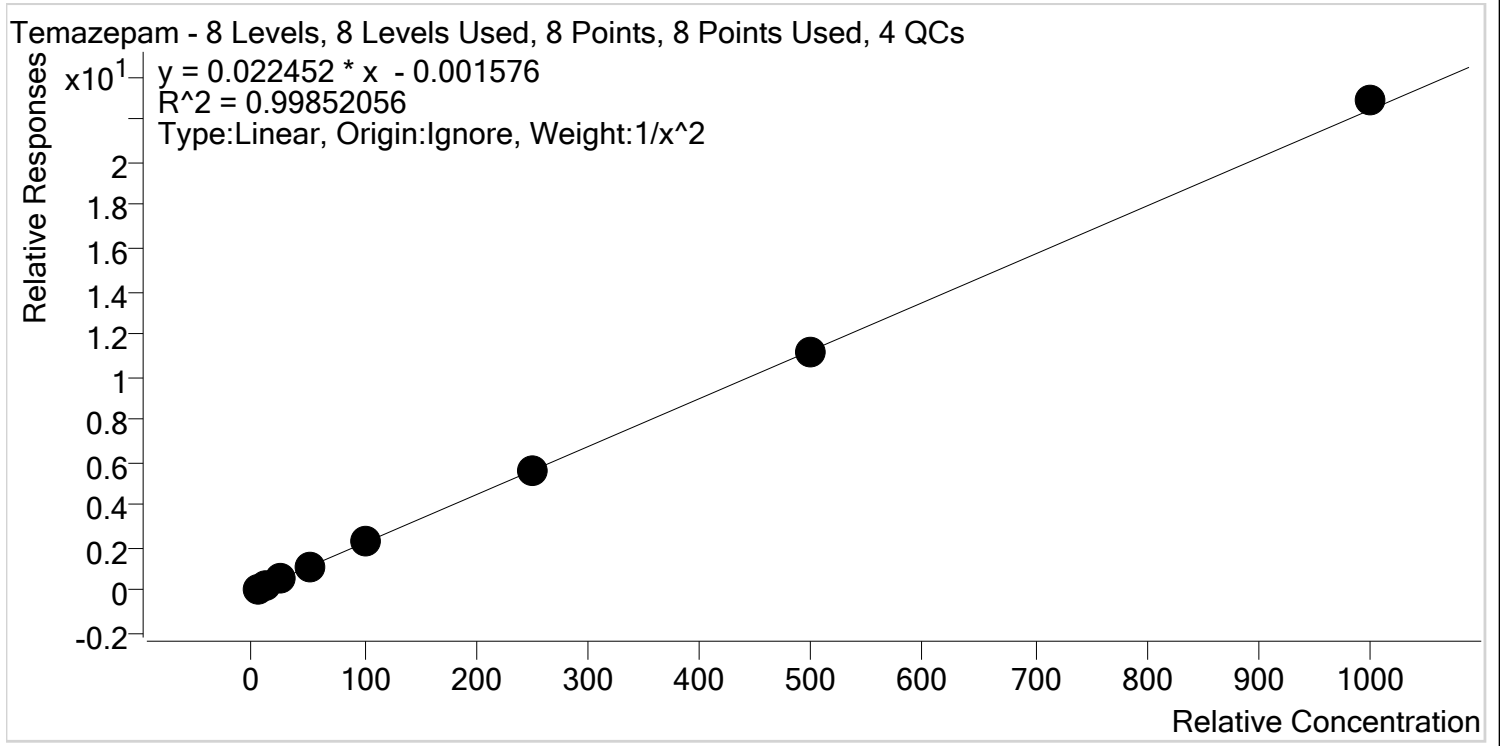
Did not evaluate



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5



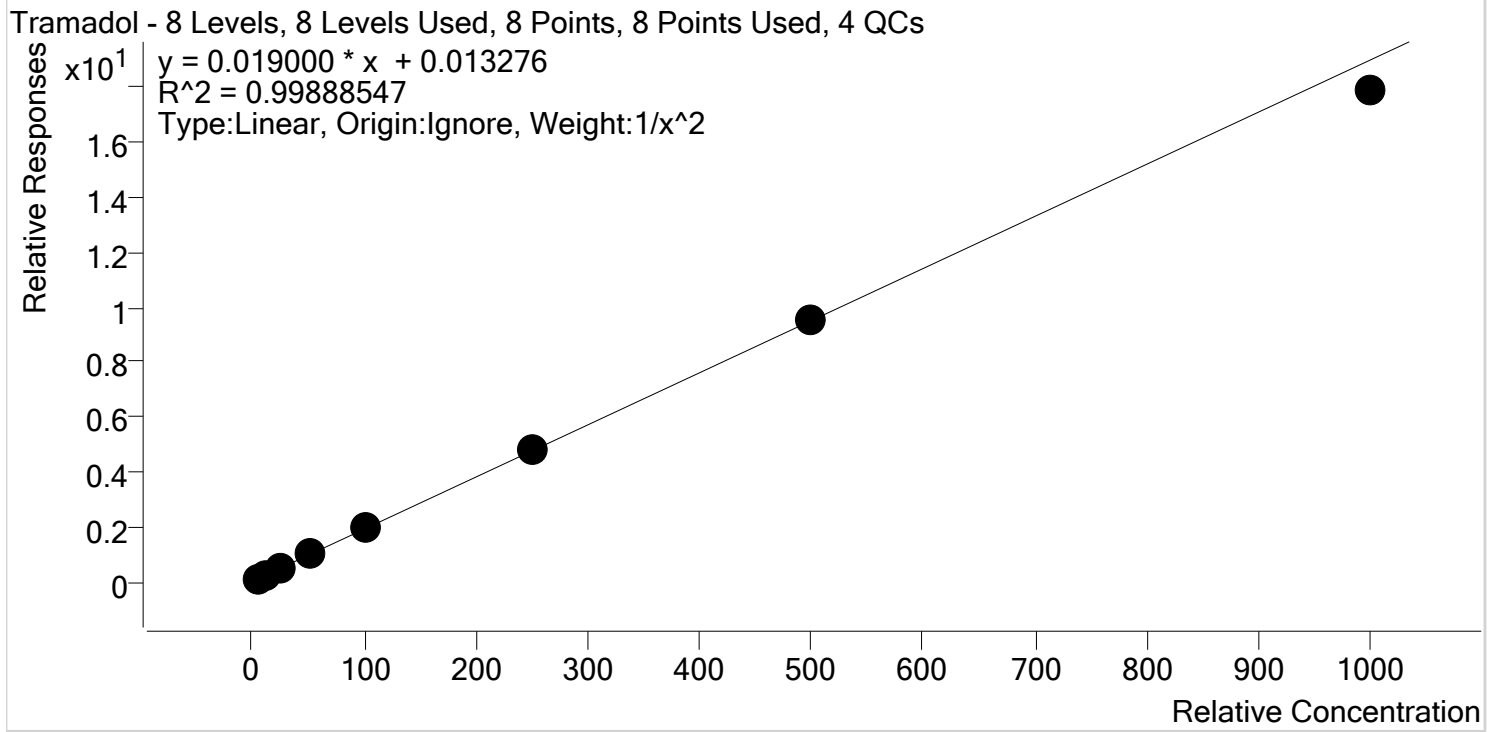
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	97.3
SP Cal 2- 10ng	2	✓	10.0	10.6	106.4
SP Cal 3- 25ng	3	✓	25.0	24.9	99.6
SP Cal 4-50ng	4	✓	50.0	47.7	95.4
SP Cal 5-100ng	5	✓	100.0	101.4	101.4
SP Cal 6-250ng	6	✓	250.0	248.1	99.2
SP Cal 7-500ng	7	✓	500.0	493.6	98.7
SP Cal 8-1000ng	8	✓	1000.0	1019.3	101.9



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	97.9
SP Cal 2- 10ng	2	✓	10.0	10.4	103.7
SP Cal 3- 25ng	3	✓	25.0	25.1	100.5
SP Cal 4-50ng	4	✓	50.0	50.6	101.1
SP Cal 5-100ng	5	✓	100.0	102.0	102.0
SP Cal 6-250ng	6	✓	250.0	252.6	101.0
SP Cal 7-500ng	7	✓	500.0	498.6	99.7
SP Cal 8-1000ng	8	✓	1000.0	941.4	94.1

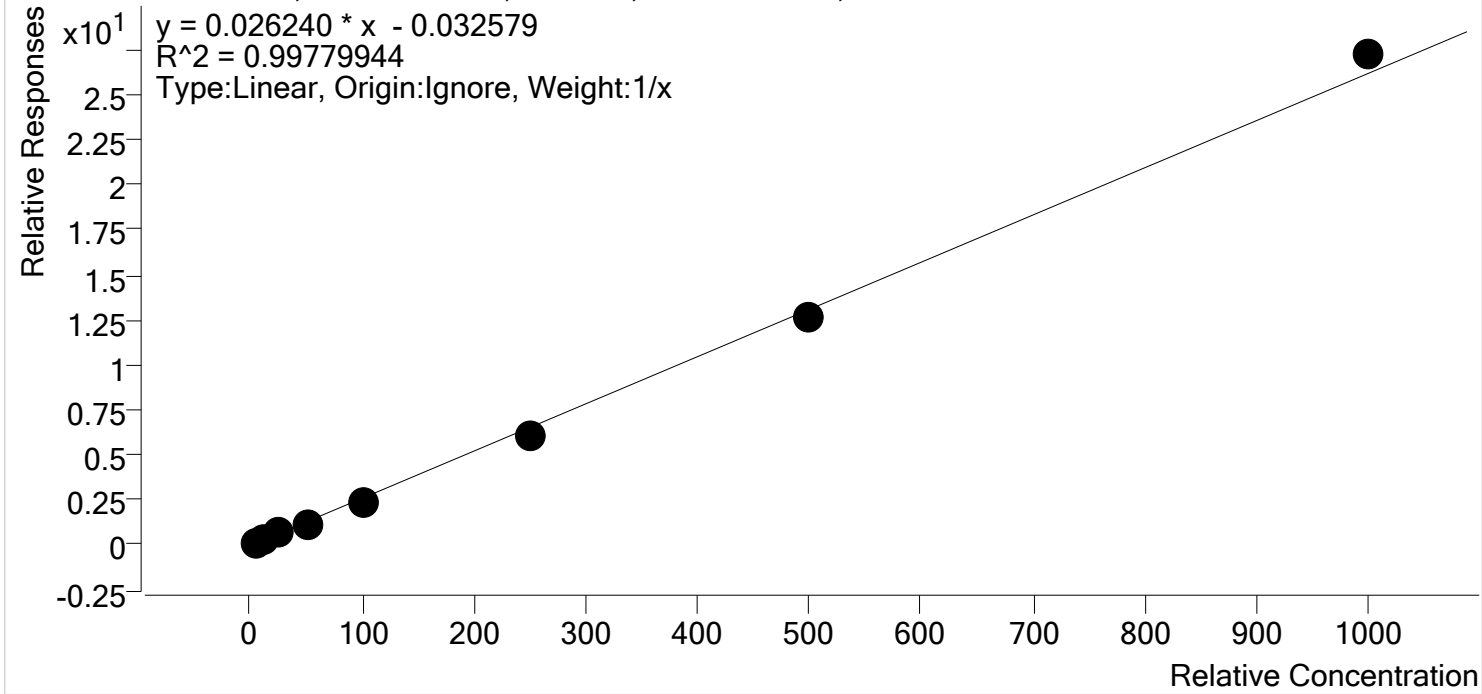


\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

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



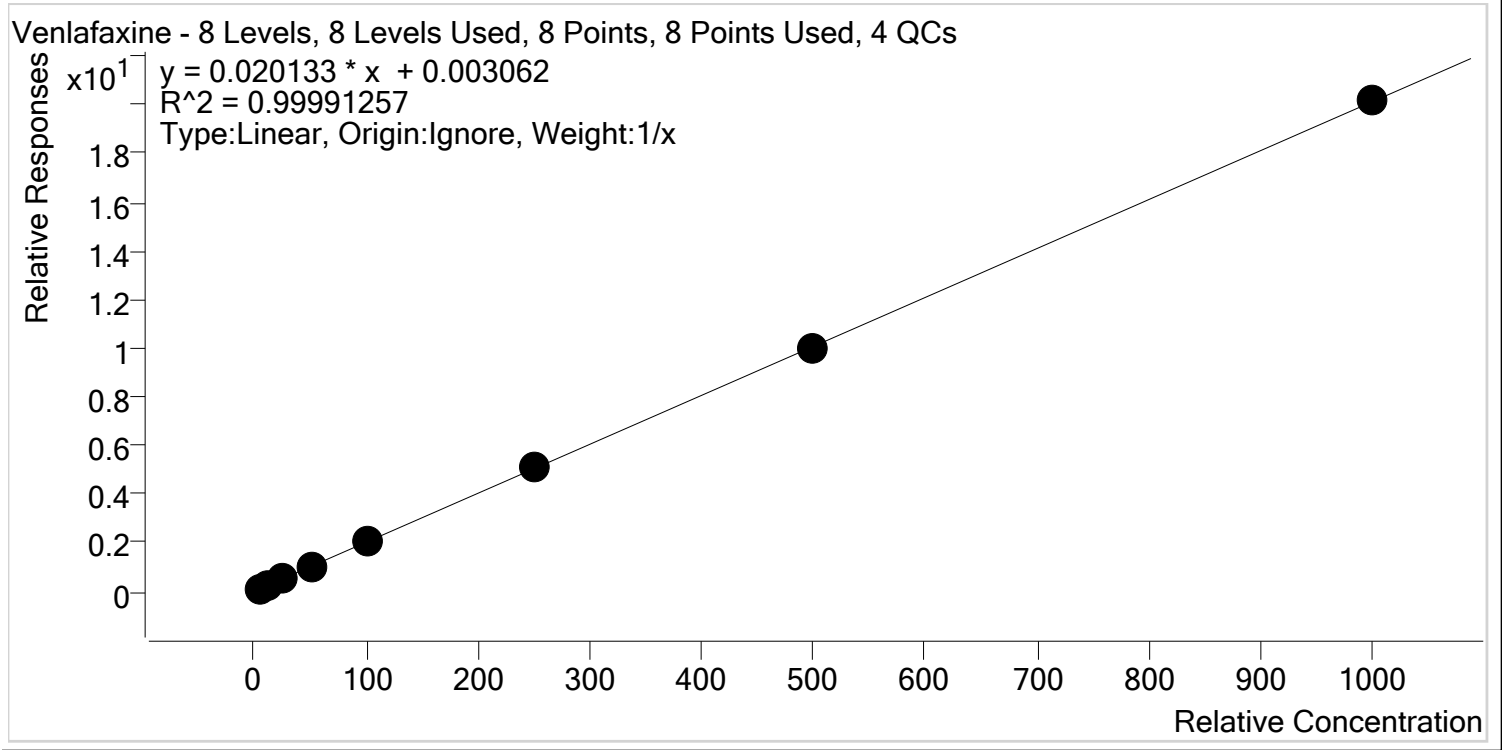
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.8	116.9
SP Cal 2- 10ng	2	✓	10.0	10.6	105.6
SP Cal 3- 25ng	3	✓	25.0	24.2	96.7
SP Cal 4-50ng	4	✓	50.0	46.2	92.4
SP Cal 5-100ng	5	✓	100.0	93.6	93.6
SP Cal 6-250ng	6	✓	250.0	234.2	93.7
SP Cal 7-500ng	7	✓	500.0	485.5	97.1
SP Cal 8-1000ng	8	✓	1000.0	1039.9	104.0



\$

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

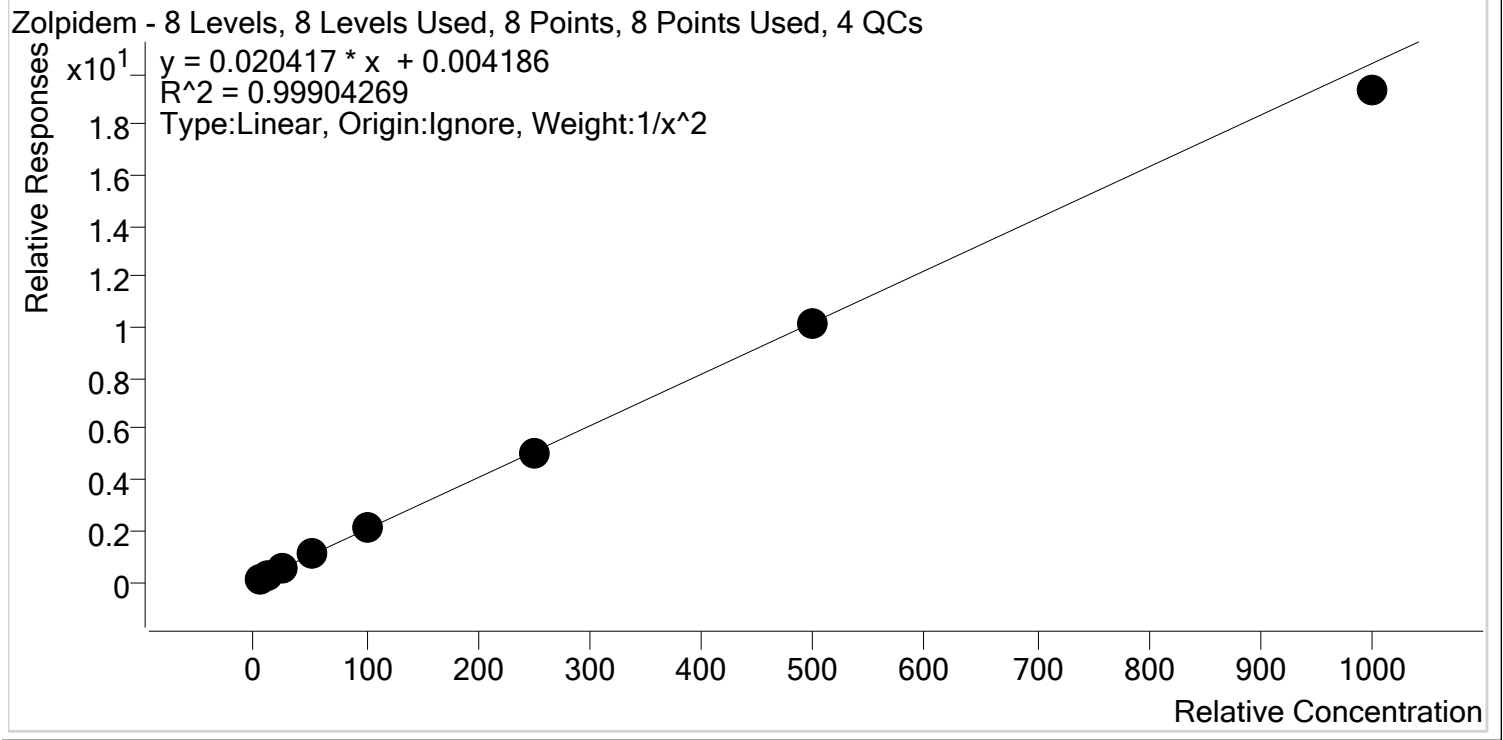


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	5.0	99.3
SP Cal 2- 10ng	2	✓	10.0	10.0	99.8
SP Cal 3- 25ng	3	✓	25.0	25.2	100.8
SP Cal 4-50ng	4	✓	50.0	49.0	98.0
SP Cal 5-100ng	5	✓	100.0	102.1	102.1
SP Cal 6-250ng	6	✓	250.0	252.1	100.8
SP Cal 7-500ng	7	✓	500.0	494.2	98.8
SP Cal 8-1000ng	8	✓	1000.0	1002.4	100.2



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
Last Cal. Update 6/10/2019 10:51 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
SP Cal 1-5ng	1	✓	5.0	4.9	98.2
SP Cal 2- 10ng	2	✓	10.0	10.3	102.6
SP Cal 3- 25ng	3	✓	25.0	25.5	101.9
SP Cal 4-50ng	4	✓	50.0	50.4	100.7
SP Cal 5-100ng	5	✓	100.0	102.8	102.8
SP Cal 6-250ng	6	✓	250.0	250.0	100.0
SP Cal 7-500ng	7	✓	500.0	495.4	99.1
SP Cal 8-1000ng	8	✓	1000.0	947.5	94.8

AM #28 Multi-Drug Quant. Results



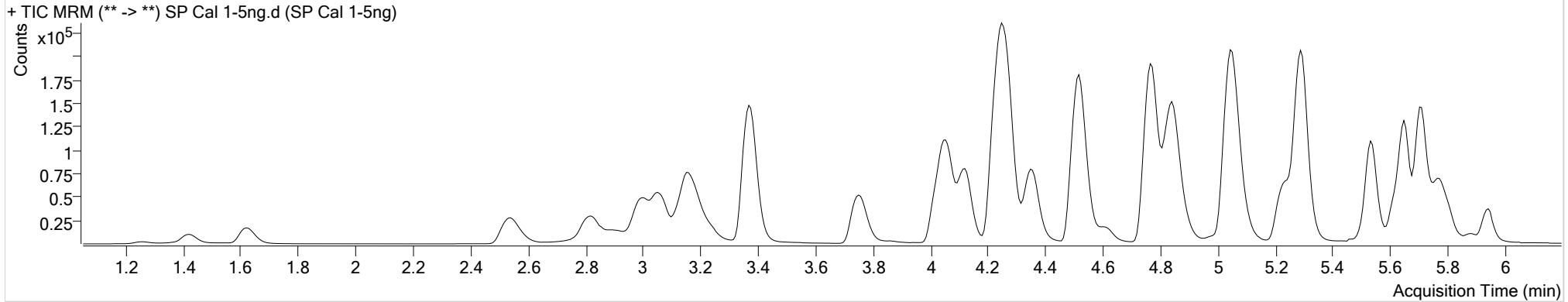
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-A1
Injection Volume 1
Acq. Date-Time 6/6/2019 11:46:34 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	1781	130.86	76.3	238.28	118183	0.4904 ng/ml
7-aminoclonazepam	4.253	6436	1029.19	80.2	867.56	52871	4.7355 ng/ml
a-hydroxyalprazolam	5.682	1531	∞	64.8	48.69	15520	4.8312 ng/ml
alpha-PVP	4.366	24196	883.59	52.2	512.42	218184	4.9600 ng/ml
Alprazolam	5.766	10881	296.26	105.0	4352.78	67822	4.9879 ng/ml
Amphetamine	3.069	33455	∞	56.5	345.01	85178	5.0047 ng/ml
Benzoylcegonine	3.876	745	289.76	6.2	∞	5303	4.9428 ng/ml
Buprenorphine	5.735	2033	46.78	17.6	96.24	141229	0.5223 ng/ml
Bupropion	4.789	81281	22912.30	59.3	1136.86	579521	4.5518 ng/ml
Carisoprodol	5.714	9163	5154.43	57.8	87.29	95731	4.9266 ng/ml
Citalopram	5.229	16851	2902.85	43.5	152.97	146185	4.7528 ng/ml
Clonazepam	5.602	1035	∞	35.7	234.74	3443	4.2047 ng/ml
Cocaine	4.266	23685	94571.85	43.8	215.42	446971	4.7774 ng/ml
Codeine	2.590	2992	1066.59	102.4	109.34	27278	4.6495 ng/ml
Cyclobenzaprine	5.618	13202	1792.95	9.8	46.21	100653	5.0740 ng/ml
Dextromethorphan	5.271	10817	202.01	77.9	260.99	100119	4.9543 ng/ml
Dextrorphan	4.122	8865	21522.58	208.8	987.96	209989	4.6790 ng/ml
Diazepam	5.945	7673	252.65	89.3	198.33	72040	4.8619 ng/ml

AM #28 Multi-Drug Quant. Results



2

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	8320	2048.36	65.6	184.72	87134	4.8266 ng/ml
Diphenhydramine	5.299	49978	904.28	33.4	1412.12	518216	4.9660 ng/ml
Doxylamine	4.529	61760	217.99	97.4	464.15	541015	4.7278 ng/ml
EDDP	5.257	514	135.46	54.6 High	20.90	4223	6.1023 ng/ml
Fentanyl	5.079	1477	230.51	83.9	1097.23	153654	0.5040 ng/ml
Fluoxetine	5.711	15246	174.93	10.4	∞	111502	4.9754 ng/ml
Hydrocodone	3.032	8895	76.12	37.2	24.55	102847	4.9177 ng/ml
Hydromorphone	1.634	7281	381.07	75.7	467.65	52006	4.9048 ng/ml
Ketamine	4.042	20904	688.92	35.6	438.39	190408	4.9019 ng/ml
Lamotrigine	4.290	2331	∞	77.9	569.92	190408	4.7957 ng/ml
Lorazepam	5.737	865	6.15 Low	101.4 High	2.08 Low	3443	1.6344 ng/ml
Meprobamate	4.906	3672	162.67	27.8	38.32	33406	5.1743 ng/ml
Methadone	5.656	26403	396.16	49.5	1147.81	257689	4.9242 ng/ml
Methamphetamine	3.231	31741	58.60	42.1	77.29	226540	4.8925 ng/ml
Metoprolol	4.329	6483	1556.90	96.2	173.32	478713	4.7146 ng/ml
Mirtazapine	4.610	30708	669.25	47.4	4381.48	218184	5.6637 ng/ml
Mitragynine	5.221	5429	6926.42	39.0	901.07	257689	5.0364 ng/ml
Morphine	1.266	1871	590.23	24.8	2188.05	4737	4.8663 ng/ml
Norbuprenorphine	4.988	306	∞	107.7	118.07	15686	0.5060 ng/ml
Nordiazepam	5.891	1882	939.03	61.7	561.02	10761	5.0589 ng/ml
Norfentanyl	4.084	3228	622.04	35.5	44.19	274625	0.5032 ng/ml
Norhydrocodone	3.073	1990	66.32	44.2	34.83	120993	5.3189 ng/ml
Noroxycodone	2.928	5329	108.95	50.7	192.65	39024	4.9665 ng/ml
O-desmethyl-tramadol	3.379	51541	1459.48	6.8	∞	469145	4.9269 ng/ml
Oxazepam	5.747	1083	3.28 Low	114.5 High	2.92 Low	7420	4.8451 ng/ml
Oxycodone	2.840	14667	38.32	31.0	36.84	119268	4.8526 ng/ml
Oxymorphone	1.423	4517	172.18	47.2	374.91	33589	4.8641 ng/ml
Phentermine	3.787	9595	123.34	3.7	23.14	192068	4.7588 ng/ml
Promethazine	5.542	22441	3835.33	28.7	457.19	188551	4.9059 ng/ml
Quetiapine	5.538	23436	472.90	61.1	838.70	66220	4.8435 ng/ml
Sertraline	5.780	8227	748.50	90.5	∞	62993	5.0041 ng/ml
Temazepam	5.808	5956	29.21	35.5	6.46 Low	55334	4.8639 ng/ml
Tramadol	4.242	50864	432.63	3.2	49.94	478713	4.8934 ng/ml
Trazodone	5.099	19718	20507.50	77.1	138.97	163169	5.8470 ng/ml
Venlafaxine	5.046	40676	379.90	37.3	96.19	394752	4.9658 ng/ml
Zolpidem	4.862	46648	9006.99	31.5	350.06	446900	4.9076 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results

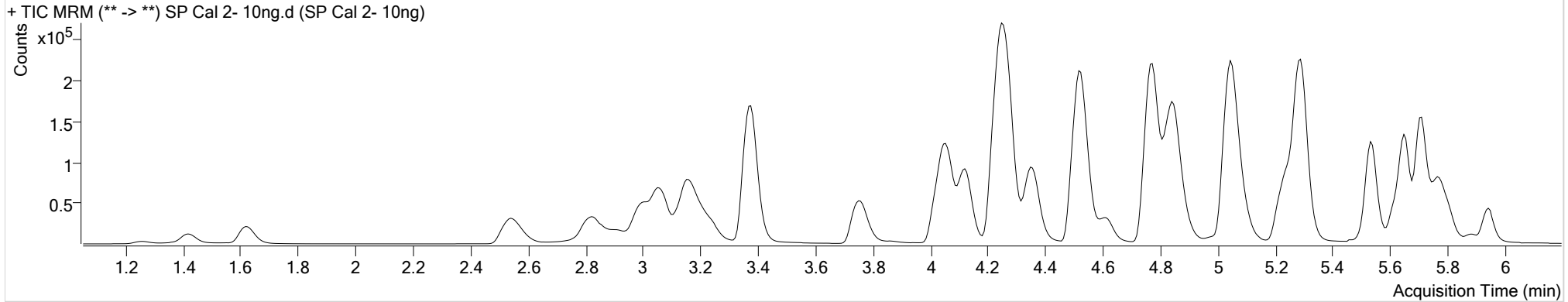
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-B1
Injection Volume 1
Acq. Date-Time 6/6/2019 11:57:20 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	4148	876.55	70.4	122.00	122355	1.0455 ng/ml
7-aminoclonazepam	4.253	13356	1120.27	82.5	1210.17	54049	10.4692 ng/ml
a-hydroxyalprazolam	5.689	3616	155.89	57.6	52.03	16388	10.6900 ng/ml
alpha-PVP	4.366	50924	1421.84	51.4	701.82	223293	10.1911 ng/ml
Alprazolam	5.766	23311	697.34	112.7	502.56	70730	10.0547 ng/ml
Amphetamine	3.069	56449	317.91	64.6	1010.14	81308	9.4024 ng/ml
Benzoyllecgonine	3.876	1487	558.50	7.4	12.63	5300	10.4381 ng/ml
Buprenorphine	5.735	3477	31.40	17.8	39.39	135575	0.9959 ng/ml
Bupropion	4.789	167121	13460.21	59.1	2183.79	573895	10.0720 ng/ml
Carisoprodol	5.714	20221	50146.75	53.0	57.54	102709	10.2692 ng/ml
Citalopram	5.229	32095	3237.91	41.7	345.74	136241	10.1276 ng/ml
Clonazepam	5.602	1912	61.07	40.5	158.32	3230	9.4846 ng/ml
Cocaine	4.266	50309	5483.09	42.7	536.43	463166	10.2065 ng/ml
Codeine	2.590	6426	359.43	101.5	231.41	27933	10.2482 ng/ml
Cyclobenzaprine	5.625	23316	20633.28	10.2	269.42	89183	10.2236 ng/ml
Dextromethorphan	5.265	20268	411.50	79.2	∞	93469	10.2336 ng/ml
Dextrorphan	4.129	18916	1195.48	207.7	721.92	214403	10.1558 ng/ml
Diazepam	5.952	16926	403.22	83.5	466.49	74213	10.5292 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	17508	3761.78	65.8	7312.04	90819	10.4162 ng/ml
Diphenhydramine	5.292	95042	1840.21	34.5	495.87	490743	10.1619 ng/ml
Doxylamine	4.535	130871	22156.86	97.7	9548.14	554466	10.1495 ng/ml
EDDP	5.263	13498	1440.51	43.7	1076.73	72909	9.4070 ng/ml
Fentanyl	5.079	2754	∞	83.6	2009.23	141046	0.9901 ng/ml
Fluoxetine	5.711	26999	871.12	10.4	∞	100258	10.1702 ng/ml
Hydrocodone	3.032	18261	67.50	41.9	50.82	105537	10.2451 ng/ml
Hydromorphone	1.628	15397	311.45	75.6	524.70	54170	10.3121 ng/ml
Ketamine	4.042	43567	3023.11	37.6	214.72	195698	10.2983 ng/ml
Lamotrigine	4.290	4828	513.25	75.5	1281.73	195698	10.5157 ng/ml
Lorazepam	5.737	2462	59.97	50.2	2.97 Low	3230	10.1451 ng/ml
Meprobamate	4.906	7123	408.05	28.9	72.83	35360	9.4489 ng/ml
Methadone	5.656	48849	868.91	50.8	532.20	234384	10.1699 ng/ml
Methamphetamine	3.237	59928	207.34	41.3	24.83	230247	10.0792 ng/ml
Metoprolol	4.329	14198	6995.57	92.4	∞	506467	10.5934 ng/ml
Mirtazapine	4.610	60452	7528.46	47.7	1688.95	223293	9.9034 ng/ml
Mitragynine	5.214	10952	202.23	39.9	2387.43	234384	10.7132 ng/ml
Morphine	1.266	4092	4080.23	23.3	165.46	4898	10.4794 ng/ml
Norbuprenorphine	4.988	484	52.91	105.6	∞	15694	1.0202 ng/ml
Nordiazepam	5.891	3832	602.58	55.6	1094.16	11486	10.0171 ng/ml
Norfentanyl	4.091	6697	594.93	37.4	351.40	282402	1.0062 ng/ml
Norhydrocodone	3.080	4655	107.14	42.8	67.25	127893	9.5590 ng/ml
Noroxycodone	2.928	11268	60.60	49.4	52.70	40874	10.1788 ng/ml
O-desmethyl-tramadol	3.379	111068	1738.42	6.6	319.00	489564	10.3162 ng/ml
Oxazepam	5.747	2009	9.62 Low	68.8	3.78 Low	7618	9.4504 ng/ml
Oxycodone	2.840	31735	∞	30.7	45.30	126905	10.3603 ng/ml
Oxymorphone	1.423	9658	1108.18	46.8	293.65	34895	10.4552 ng/ml
Phentermine	3.787	19489	217.14	3.9	34.58	190768	10.5757 ng/ml
Promethazine	5.542	42977	3240.82	28.3	543.85	173427	10.3105 ng/ml
Quetiapine	5.531	45419	2106.60	61.1	66520.84	63733	10.2805 ng/ml
Sertraline	5.780	13976	184.40	92.3	311.86	55036	10.0338 ng/ml
Temazepam	5.808	13578	148.04	33.5	20.26	57205	10.6416 ng/ml
Tramadol	4.249	106489	6606.57	3.6	87.41	506467	10.3673 ng/ml
Trazodone	5.092	37247	∞	77.4	92554.14	152407	10.5554 ng/ml
Venlafaxine	5.040	83743	1793.27	38.2	367.24	410393	9.9831 ng/ml
Zolpidem	4.862	100123	875.81	31.5	292.18	468698	10.2580 ng/ml

AM #28 Multi-Drug Quant. Results



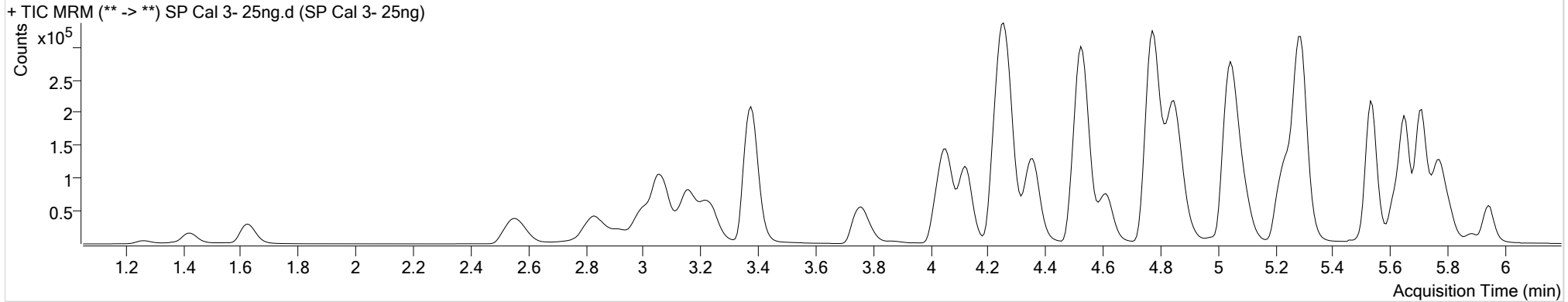
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-C1
Injection Volume 1
Acq. Date-Time 6/7/2019 12:07:47 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	9618	263.26	72.0	186.13	115726	2.4960 ng/ml
7-aminoclonazepam	4.260	32890	4971.06	79.4	2701.39	52885	27.6094 ng/ml
a-hydroxyalprazolam	5.689	7884	115.32	60.6	367.19	15263	24.8982 ng/ml
alpha-PVP	4.366	122459	8164.96	51.5	887.99	218906	24.9859 ng/ml
Alprazolam	5.766	56001	1248.49	105.2	2336.23	66673	25.3424 ng/ml
Amphetamine	3.069	157105	1409.12	55.6	∞	80488	27.7469 ng/ml
Benzoyllecgonine	3.883	3237	2599.11	8.5	∞	5095	24.3588 ng/ml
Buprenorphine	5.735	8584	223.29	17.1	146.85	141806	2.4644 ng/ml
Bupropion	4.782	416324	34187.94	58.4	4165.85	581405	25.6089 ng/ml
Carisoprodol	5.714	45171	29252.25	55.8	175.49	94951	24.9970 ng/ml
Citalopram	5.229	86663	13738.56	42.0	431.82	151804	25.1087 ng/ml
Clonazepam	5.602	4925	822.15	38.2	1078.11	3324	25.5993 ng/ml
Cocaine	4.266	118440	23726.90	42.9	∞	450736	25.2507 ng/ml
Codeine	2.597	14910	12965.47	101.8	9360.46	26797	25.4291 ng/ml
Cyclobenzaprine	5.625	66420	271.60	10.1	479.81	104632	24.9818 ng/ml
Dextromethorphan	5.265	54075	1401.35	78.1	578.48	104293	24.8700 ng/ml
Dextrorphan	4.129	45727	12913.92	203.7	11717.57	213024	25.2058 ng/ml
Diazepam	5.952	38879	727.60	87.1	∞	72257	24.9815 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.569	40671	23030.04	67.2	4282.49	87695	25.9866 ng/ml
Diphenhydramine	5.292	246190	1304.86	34.1	∞	530004	24.6356 ng/ml
Doxylamine	4.535	312642	880.94	96.7	1067.00	546412	25.1032 ng/ml
EDDP	5.257	30930	1804.59	42.6	470.33	66965	23.8532 ng/ml
Fentanyl	5.079	7780	332.87	78.9	730.56	154321	2.5053 ng/ml
Fluoxetine	5.711	79506	4493.51	9.7	9198.22	124764	24.5893 ng/ml
Hydrocodone	3.032	42694	63.86	39.7	80.55	103070	25.0926 ng/ml
Hydromorphone	1.634	36436	873.20	74.6	444.93	53061	25.4003 ng/ml
Ketamine	4.042	102528	4183.04	37.3	1098.69	191549	25.2497 ng/ml
Lamotrigine	4.290	11183	290.91	80.4	2581.03	191549	26.0257 ng/ml
Lorazepam	5.737	5365	57.74	58.4	10.69	3324	24.3331 ng/ml
Meprobamate	4.906	17318	3196.84	28.2	∞	33181	24.4200 ng/ml
Methadone	5.656	130041	1129.83	51.2	585.24	254343	25.1648 ng/ml
Methamphetamine	3.237	147901	865.93	41.2	755.97	231605	26.4084 ng/ml
Metoprolol	4.329	33834	11146.99	90.8	∞	489729	27.2502 ng/ml
Mirtazapine	4.610	155542	4589.45	46.2	11043.24	218906	24.2486 ng/ml
Mitragynine	5.214	28729	52312.89	41.0	13801.78	254343	25.3661 ng/ml
Morphine	1.266	9262	557.74	23.9	1560.48	4627	25.3325 ng/ml
Norbuprenorphine	4.988	1053	66.44	91.1	435.06	16250	2.5588 ng/ml
Nordiazepam	5.891	8671	625.23	62.8	611.78	11502	23.1428 ng/ml
Norfentanyl	4.091	16001	433.96	36.3	273.46	279395	2.4181 ng/ml
Norhydrocodone	3.080	11237	127.03	46.5	79.48	125508	20.8500 ng/ml
Noroxycodone	2.928	25835	73.25	50.5	79.05	39044	24.6390 ng/ml
O-desmethyl-tramadol	3.386	257545	1478.66	6.6	825.40	475029	24.8384 ng/ml
Oxazepam	5.747	4653	24.11	62.9	7.21 Low	7174	24.5002 ng/ml
Oxycodone	2.847	73799	404.36	29.7	60.59	119110	26.3734 ng/ml
Oxymorphone	1.423	21798	178.52	48.4	126.29	33612	25.0606 ng/ml
Phentermine	3.787	46739	989.51	3.7	56.63	191142	26.4375 ng/ml
Promethazine	5.542	124796	5640.75	28.3	2232.84	203971	25.5856 ng/ml
Quetiapine	5.531	122928	3512.23	58.6	55038.22	68977	26.4905 ng/ml
Sertraline	5.780	42504	∞	90.5	620.06	69377	24.6604 ng/ml
Temazepam	5.808	30493	329.91	35.4	32.79	54691	24.9031 ng/ml
Tramadol	4.249	240252	17596.58	3.7	452.28	489729	25.1208 ng/ml
Trazodone	5.092	99917	2415.01	77.6	754.24	166027	24.1768 ng/ml
Venlafaxine	5.040	203430	2202.43	38.2	260.68	398601	25.1967 ng/ml
Zolpidem	4.862	237967	83134.80	31.7	28076.86	453851	25.4764 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results

Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

Falco
Cal
MDQ P1 Combined 011619.m
P2-D1
1
6/7/2019 12:18:13 AM

Data File

Sample

Operator

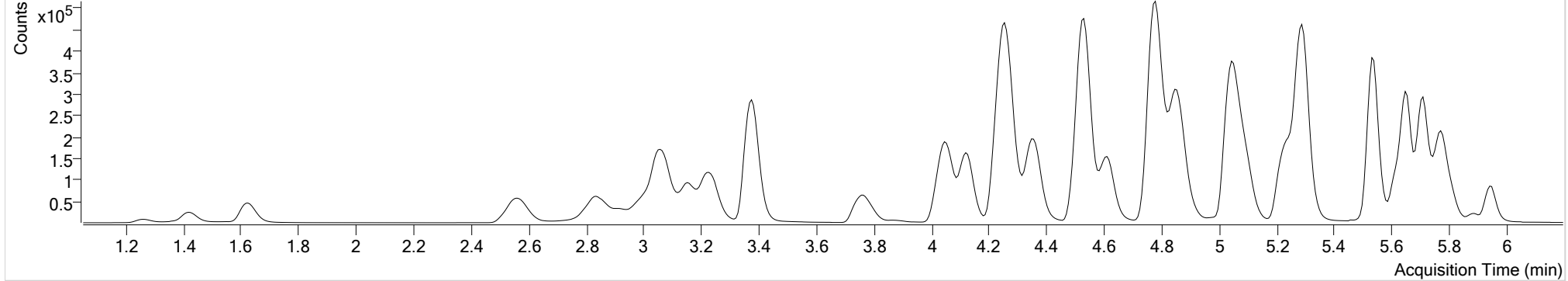
Comment

SP Cal 4-50ng.d

SP Cal 4-50ng

Sample Chromatogram

+ TIC MRM (** -> **) SP Cal 4-50ng.d (SP Cal 4-50ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	19398	802.53	71.3	395.72	118217	4.8830 ng/ml
7-aminoclonazepam	4.253	63660	37806.75	82.0	9798.13	54136	52.9454 ng/ml
a-hydroxyalprazolam	5.689	16266	717.04	59.8	∞	15664	49.9559 ng/ml
alpha-PVP	4.366	247766	20218.64	51.6	2853.09	225014	49.1723 ng/ml
Alprazolam	5.766	112099	1075.66	106.5	2126.37	68143	49.4603 ng/ml
Amphetamine	3.069	307178	∞	56.4	∞	83182	53.1411 ng/ml
Benzoylcegonine	3.876	6515	612.72	8.0	∞	5276	47.8872 ng/ml
Buprenorphine	5.735	17445	435.55	16.5	557.77	147749	4.8866 ng/ml
Bupropion	4.782	852980	35173.65	58.9	20637.38	612406	50.3579 ng/ml
Carisoprodol	5.714	90358	∞	55.5	200.76	95002	50.1051 ng/ml
Citalopram	5.229	182966	1682.88	41.6	9226.06	162558	49.8894 ng/ml
Clonazepam	5.602	10030	72.96	31.3	5744.22	3432	51.7132 ng/ml
Cocaine	4.266	236229	480.69	43.6	9710.47	460246	49.6978 ng/ml
Codeine	2.590	29416	1492.20	101.9	5711.74	27014	50.1969 ng/ml
Cyclobenzaprine	5.625	148976	7017.82	10.4	1559.15	119803	49.0431 ng/ml
Dextromethorphan	5.265	114169	1406.00	79.9	5028.27	112176	49.0959 ng/ml
Dextrorphan	4.129	92366	16063.51	203.9	8613.81	214713	50.8614 ng/ml
Diazepam	5.952	78685	3569.71	87.6	582.44	72415	50.5529 ng/ml

SP Cal 4-50ng

AM #28 Multi-Drug Quant. Results



\$

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	81143	27525.67	67.2	563.35	88501	52.0190 ng/ml
Diphenhydramine	5.299	526881	38188.92	34.3	254.50	565855	49.5720 ng/ml
Doxylamine	4.529	637849	49406.81	97.2	∞	558583	50.4481 ng/ml
EDDP	5.257	33278	451.96	43.2	801.80	37415	46.1714 ng/ml
Fentanyl	5.079	16707	1204.50	79.9	1280.87	170088	4.8503 ng/ml
Fluoxetine	5.711	183169	1343.43	9.4	2608.67	145267	49.0285 ng/ml
Hydrocodone	3.032	87239	∞	39.7	140.90	104519	50.9753 ng/ml
Hydromorphone	1.628	70667	846.26	77.0	∞	53200	49.4577 ng/ml
Ketamine	4.042	208697	18424.96	37.3	1923.07	194886	50.8649 ng/ml
Lamotrigine	4.290	22661	5987.54	80.7	5776.02	194886	52.6671 ng/ml
Lorazepam	5.737	11147	82.83	54.3	15.79	3432	51.5555 ng/ml
Meprobamate	4.906	34636	3413.50	27.7	1336.95	32968	49.1153 ng/ml
Methadone	5.656	286653	6084.51	50.3	3313.69	289416	48.8884 ng/ml
Methamphetamine	3.237	298481	2755.17	41.2	493.14	239050	52.7387 ng/ml
Metoprolol	4.329	66655	14770.29	92.8	∞	499597	53.3510 ng/ml
Mirtazapine	4.610	323561	31537.19	47.8	3304.29	225014	47.9745 ng/ml
Mitragynine	5.214	61107	∞	38.2	∞	289416	47.0883 ng/ml
Morphine	1.266	18290	1520.20	23.7	6131.13	4677	49.6493 ng/ml
Norbuprenorphine	4.988	2024	74.36	100.0	108.50	17735	4.7965 ng/ml
Nordiazepam	5.891	17885	1958.20	60.2	710.16	11162	49.6390 ng/ml
Norfentanyl	4.091	32643	20601.06	36.7	3693.69	286468	4.8027 ng/ml
Norhydrocodone	3.080	26451	778.29	41.0	345.60	134096	43.7441 ng/ml
Noroxycodone	2.928	52327	72.98	49.5	302.68	39495	49.4839 ng/ml
O-desmethyl-tramadol	3.379	519558	17963.24	6.6	695.94	479601	49.7629 ng/ml
Oxazepam	5.747	9103	46.16	70.6	10.88	7246	48.2656 ng/ml
Oxycodone	2.840	147504	∞	30.8	∞	124899	50.7022 ng/ml
Oxymorphone	1.423	44452	∞	46.6	515.47	33506	51.7065 ng/ml
Phentermine	3.787	93885	1874.93	4.0	80.91	194985	52.8407 ng/ml
Promethazine	5.542	285982	3494.69	28.7	903.17	240921	49.7228 ng/ml
Quetiapine	5.531	260439	135812.44	60.0	∞	75453	51.7941 ng/ml
Sertraline	5.780	96677	1086.31	90.5	1019.12	77496	50.5477 ng/ml
Temazepam	5.814	60498	455.23	31.6	141.43	56588	47.6865 ng/ml
Tramadol	4.249	486613	28061.55	3.6	359.42	499597	50.5641 ng/ml
Trazodone	5.092	219052	16930.46	78.1	282.21	185728	46.1895 ng/ml
Venlafaxine	5.046	408997	14835.62	39.4	1981.19	413114	49.0215 ng/ml
Zolpidem	4.862	484328	90179.69	31.3	6705.81	469156	50.3587 ng/ml

AM #28 Multi-Drug Quant. Results



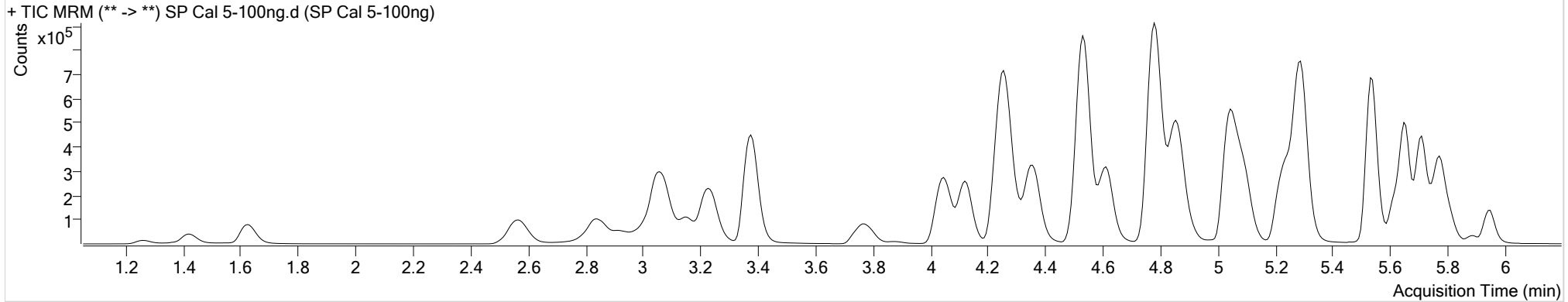
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-E1
Injection Volume 1
Acq. Date-Time 6/7/2019 12:28:40 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	39253	1944.12	72.9	1509.48	117838	9.8650 ng/ml
7-aminoclonazepam	4.253	126605	10396.41	80.6	6947.25	53109	108.1857 ng/ml
a-hydroxyalprazolam	5.689	32512	250.59	63.0	787.50	15385	101.5682 ng/ml
alpha-PVP	4.366	507652	28947.59	51.3	33444.08	224938	100.7753 ng/ml
Alprazolam	5.766	221045	1401.28	105.7	3139.08	66959	99.0713 ng/ml
Amphetamine	3.069	604787	2579.09	56.1	7404.77	83193	105.3138 ng/ml
Benzoylcegonine	3.876	13435	13368.84	7.8	593.37	5397	97.1081 ng/ml
Buprenorphine	5.735	34279	765.64	16.8	602.36	144369	9.9114 ng/ml
Bupropion	4.789	1759074	451848.32	58.2	17728.19	617652	103.5726 ng/ml
Carisoprodol	5.714	180748	100086.24	53.8	441.37	93541	101.9258 ng/ml
Citalopram	5.229	374925	14166.13	43.2	1447.44	163044	102.3409 ng/ml
Clonazepam	5.602	20903	1577.94	35.1	638.49	3541	105.7337 ng/ml
Cocaine	4.266	477753	7983409.68	43.8	115499.58	455210	102.0333 ng/ml
Codeine	2.590	59432	570.07	103.3	2843.50	26754	102.8740 ng/ml
Cyclobenzaprine	5.625	317008	510.97	10.1	264.68	124959	100.1684 ng/ml
Dextromethorphan	5.265	236405	975.59	79.9	12236.43	114314	100.0566 ng/ml
Dextrorphan	4.129	188938	7993.30	206.4	4716.11	220315	101.7373 ng/ml
Diazepam	5.952	157527	∞	87.9	861.61	72928	100.5972 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	165500	54451.83	67.3	20865.65	89229	105.9078 ng/ml
Diphenhydramine	5.292	1090848	63868.29	34.2	1206.55	570871	101.9289 ng/ml
Doxylamine	4.535	1312597	2150.38	98.1	185076.70	570134	102.0677 ng/ml
EDDP	5.257	137810	4177.63	42.3	2093.20	75338	95.2281 ng/ml
Fentanyl	5.079	34199	922.58	76.6	18924.76	170559	9.8671 ng/ml
Fluoxetine	5.711	389850	1160.01	9.6	37710.52	147086	103.4818 ng/ml
Hydrocodone	3.025	179486	∞	40.0	∞	105191	104.6316 ng/ml
Hydromorphone	1.628	144233	512.08	77.0	1752.55	52076	103.4965 ng/ml
Ketamine	4.042	423861	74386.44	37.5	1310.82	196906	102.5981 ng/ml
Lamotrigine	4.290	46200	2421.81	78.5	30162.83	196906	107.1250 ng/ml
Lorazepam	5.737	22274	299.69	62.6	89.31	3541	102.2512 ng/ml
Meprobamate	4.906	72218	62970.61	27.7	1039.33	34476	97.8897 ng/ml
Methadone	5.656	596972	2855.55	50.7	2263.36	291542	101.2293 ng/ml
Methamphetamine	3.231	604237	1720.82	41.3	1867.68	249460	103.3937 ng/ml
Metoprolol	4.329	135458	20159.87	90.6	∞	506250	107.7811 ng/ml
Mirtazapine	4.610	677294	88456.24	47.4	27880.03	224938	99.2827 ng/ml
Mitragynine	5.214	129563	126692.89	38.4	73289.17	291542	98.6971 ng/ml
Morphine	1.266	36555	30551.40	23.8	3965.23	4572	101.6786 ng/ml
Norbuprenorphine	4.995	4137	391.35	101.4	1697.12	18261	9.8945 ng/ml
Nordiazepam	5.891	37607	1034.94	57.6	935.12	11102	105.3959 ng/ml
Norfentanyl	4.091	69740	2862.37	36.0	3398.48	289967	10.1274 ng/ml
Norhydrocodone	3.080	63171	352.39	43.0	851.39	136340	100.2931 ng/ml
Noroxycodone	2.921	109938	∞	46.3	∞	39732	103.5063 ng/ml
O-desmethyl-tramadol	3.379	1074017	99904.88	6.5	1177.83	486494	101.5494 ng/ml
Oxazepam	5.747	19205	132.65	65.3	77.98	7385	100.8394 ng/ml
Oxycodone	2.840	291192	∞	32.1	∞	127090	98.8151 ng/ml
Oxymorphone	1.423	87700	2186.41	46.6	625.60	33730	101.7374 ng/ml
Phentermine	3.787	188568	5751.36	3.7	138.72	194394	107.2715 ng/ml
Promethazine	5.542	602288	141778.19	29.0	2127.21	255125	98.9750 ng/ml
Quetiapine	5.531	542865	35823.89	60.2	4478.99	78070	104.8698 ng/ml
Sertraline	5.780	192344	1057.13	91.4	1057.87	80121	97.5695 ng/ml
Temazepam	5.814	125174	527.83	31.1	190.51	54999	101.4380 ng/ml
Tramadol	4.249	987384	63747.34	3.5	389.12	506250	101.9514 ng/ml
Trazodone	5.092	461144	48706.45	78.1	∞	190190	93.6456 ng/ml
Venlafaxine	5.046	848837	3460.23	38.4	940.30	412308	102.1026 ng/ml
Zolpidem	4.862	1000319	85464.75	31.4	12218.62	475587	102.8158 ng/ml

AM #28 Multi-Drug Quant. Results



Batch results

Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument

Type

Acq. Method

Sample Position

Injection Volume

Acq. Date-Time

Sample Info.

Falco

Cal

MDQ P1 Combined 011619.m

P2-F1

1

6/7/2019 12:39:08 AM

Data File

Sample

Operator

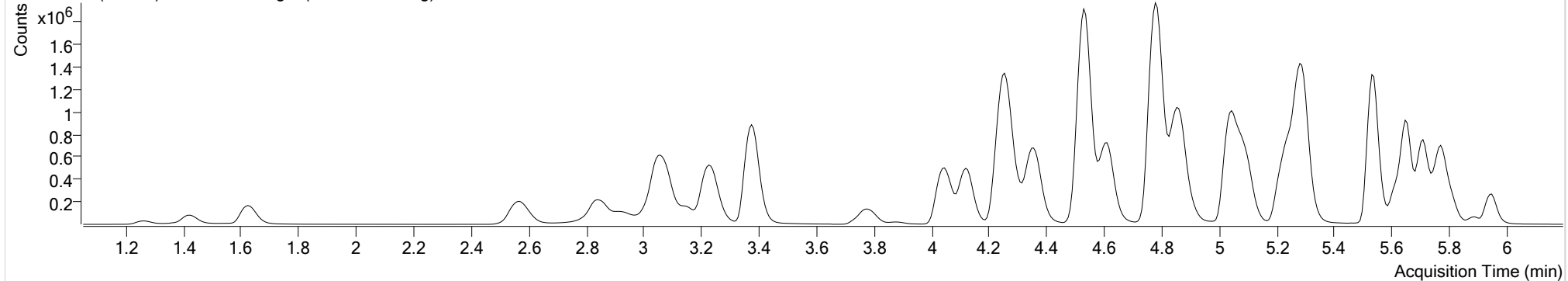
Comment

SP Cal 6-250ng.d

SP Cal 6-250ng

Sample Chromatogram

+ TIC MRM (** -> **) SP Cal 6-250ng.d (SP Cal 6-250ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	94458	2196.99	71.6	1149.25	113790	24.5149 ng/ml
7-aminoclonazepam	4.253	263806	88827.88	82.1	9658.49	47759	251.7755 ng/ml
a-hydroxyalprazolam	5.682	76943	∞	63.8	1060.13	14966	246.9668 ng/ml
alpha-PVP	4.366	1219704	90968.89	51.8	47873.33	220373	247.1291 ng/ml
Alprazolam	5.766	505445	2250.08	104.2	3677.58	61114	247.9288 ng/ml
Amphetamine	3.062	1335500	12292.44	57.0	12871.81	80165	242.2768 ng/ml
Benzoyllecgonine	3.876	33779	1808.66	7.6	336.24	5304	249.3013 ng/ml
Buprenorphine	5.735	67493	318.67	16.7	5424.82	113598	24.9270 ng/ml
Bupropion	4.782	4195514	∞	58.5	70078.86	598813	255.6424 ng/ml
Carisoprodol	5.714	392427	∞	54.8	926.05	81185	255.1682 ng/ml
Citalopram	5.222	818008	1564.96	42.6	∞	142505	256.0619 ng/ml
Clonazepam	5.602	50053	7977.11	35.2	∞	3302	273.4180 ng/ml
Cocaine	4.266	1109264	2091.79	43.1	41676.43	430126	251.2942 ng/ml
Codeine	2.590	136026	1291.40	102.7	2337.57	25122	251.4023 ng/ml
Cyclobenzaprine	5.618	661803	∞	10.4	7094.01	106865	244.6843 ng/ml
Dextromethorphan	5.265	508561	25336.22	78.9	∞	96928	254.2963 ng/ml
Dextrorphan	4.122	441444	46831.62	204.9	23823.72	206260	254.4201 ng/ml
Diazepam	5.952	359155	1550.97	87.0	6593.48	66508	251.6514 ng/ml

SP Cal 6-250ng

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	378127	79030.74	68.5	53219.55	87191	248.5112 ng/ml
Diphenhydramine	5.292	2374285	41690.05	34.2	1819.07	511518	247.8644 ng/ml
Doxylamine	4.529	3201144	134496.66	97.5	463970.81	564866	251.7553 ng/ml
EDDP	5.257	601886	25497.78	41.6	18644.23	125741	249.6090 ng/ml
Fentanyl	5.079	69862	2005.06	77.3	881.67	137820	24.8953 ng/ml
Fluoxetine	5.711	805645	24559.67	9.7	4256.41	126873	248.4538 ng/ml
Hydrocodone	3.025	415002	287.79	40.7	423.03	103888	245.5037 ng/ml
Hydromorphone	1.628	338487	4671.68	75.6	3183.75	51124	247.8869 ng/ml
Ketamine	4.042	1007356	134000.44	37.6	17015.37	191551	251.1568 ng/ml
Lamotrigine	4.290	101585	8415.43	78.0	∞	191551	243.1854 ng/ml
Lorazepam	5.737	54045	1257.17	56.6	71.16	3302	270.1058 ng/ml
Meprobamate	4.906	169056	32914.40	28.4	∞	32229	245.0757 ng/ml
Methadone	5.656	1304345	4041.99	50.4	2892.25	256353	251.7606 ng/ml
Methamphetamine	3.231	1449258	3050.85	42.9	5747.58	250563	248.4999 ng/ml
Metoprolol	4.329	296370	38963.09	91.2	∞	469946	255.0903 ng/ml
Mirtazapine	4.610	1558969	134577.26	47.7	71175.73	220373	231.8101 ng/ml
Mitragynine	5.214	276679	71070.42	38.6	2573.48	256353	239.1600 ng/ml
Morphine	1.266	85138	39488.89	22.5	623.95	4254	254.7271 ng/ml
Norbuprenorphine	4.988	9026	4993.45	97.8	4666.84	15897	25.3685 ng/ml
Nordiazepam	5.891	88067	6034.13	56.6	2257.65	10813	253.9741 ng/ml
Norfentanyl	4.084	170728	2620.79	36.2	7193.90	285561	25.1624 ng/ml
Norhydrocodone	3.080	177057	2356.81	42.5	1661.30	135898	278.7125 ng/ml
Noroxycodone	2.928	258830	∞	46.7	∞	38615	250.9471 ng/ml
O-desmethyl-tramadol	3.379	2576183	∞	6.6	971.40	475418	249.4496 ng/ml
Oxazepam	5.747	46172	528.15	65.7	143.08	6650	270.6734 ng/ml
Oxycodone	2.840	702472	∞	31.2	∞	121129	250.8427 ng/ml
Oxymorphone	1.423	202413	629.25	48.2	2426.70	31779	249.8365 ng/ml
Phentermine	3.787	416523	7001.53	3.8	∞	186299	248.2982 ng/ml
Promethazine	5.542	1286753	70053.68	28.9	23618.87	217814	247.8091 ng/ml
Quetiapine	5.531	1203078	2848422.60	59.9	4277.72	71407	254.8362 ng/ml
Sertraline	5.780	392773	8143.12	90.5	∞	63453	252.0861 ng/ml
Temazepam	5.814	297100	1861.20	30.6	352.71	53352	248.0927 ng/ml
Tramadol	4.242	2261673	94160.96	3.6	855.61	469946	252.5922 ng/ml
Trazodone	5.092	1023511	51655.61	77.5	372918.47	167414	234.2347 ng/ml
Venlafaxine	5.040	1993811	67536.19	38.8	30433.29	392611	252.0815 ng/ml
Zolpidem	4.862	2393997	148906.60	31.4	36973.19	468641	250.0019 ng/ml

AM #28 Multi-Drug Quant. Results



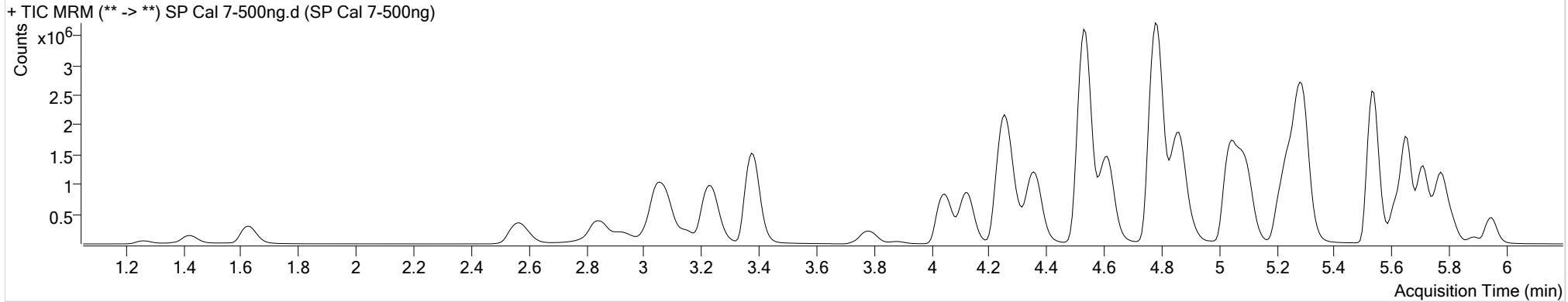
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Type Falco
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-G1
Injection Volume 1
Acq. Date-Time 6/7/2019 12:49:34 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.151	179313	22966.91	71.6	2210.29	105261	50.2596 ng/ml
7-aminoclonazepam	4.253	411616	50111.37	80.5	19480.86	40158	467.9043 ng/ml
a-hydroxyalprazolam	5.689	141466	729.01	64.2	1196.28	14195	478.6551 ng/ml
alpha-PVP	4.366	2351579	∞	51.2	138667.53	209430	501.3512 ng/ml
Alprazolam	5.766	879880	∞	102.7	∞	51855	508.4680 ng/ml
Amphetamine	3.069	2369461	48231.78	56.5	33324.05	79882	431.9361 ng/ml
Benzoylcegonine	3.883	70388	4479.84	7.4	2081.75	5458	505.4316 ng/ml
Buprenorphine	5.735	124918	4092.20	17.1	1492.27	103923	50.5160 ng/ml
Bupropion	4.782	8262061	621745.33	58.5	110584.11	600656	502.4375 ng/ml
Carisoprodol	5.721	637768	249697.20	56.0	3818.33	68323	492.8861 ng/ml
Citalopram	5.222	1575765	48970.97	42.6	∞	142062	495.1742 ng/ml
Clonazepam	5.602	97704	11398.89	34.5	39448.93	3323	531.5029 ng/ml
Cocaine	4.266	2008632	∞	43.2	689378.26	393618	497.6289 ng/ml
Codeine	2.590	246404	1910.32	102.6	12476.37	23149	494.6428 ng/ml
Cyclobenzaprine	5.618	1487345	913.00	10.2	6879.47	118399	496.4482 ng/ml
Dextromethorphan	5.265	1035242	1060.21	79.0	3104.15	100788	498.1011 ng/ml
Dextrorphan	4.129	834395	∞	206.8	46151.84	200450	495.1584 ng/ml
Diazepam	5.952	636139	11316.22	87.2	2946.37	59160	501.1945 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	703708	40721.10	65.8	101785.63	83906	481.2139 ng/ml
Diphenhydramine	5.299	4766835	349426.48	34.2	2900.35	507136	502.1278 ng/ml
Doxylamine	4.529	6300420	225551.32	96.8	148842.92	556872	502.9606 ng/ml
EDDP	5.257	1617140	69556.29	42.4	1381.39	168429	500.9280 ng/ml
Fentanyl	5.079	163624	2053.57	80.3	2676.75	160767	49.9519 ng/ml
Fluoxetine	5.711	1707119	1705.70	9.5	∞	132381	504.9495 ng/ml
Hydrocodone	3.025	792896	∞	41.1	287.64	100386	485.8177 ng/ml
Hydromorphone	1.628	638574	3622.19	75.3	5812.53	48241	495.9456 ng/ml
Ketamine	4.042	1905782	173998.39	37.7	4832.54	184955	492.4352 ng/ml
Lamotrigine	4.290	171353	19390.00	79.2	22402.63	184955	425.4584 ng/ml
Lorazepam	5.737	100790	1143.94	54.5	358.90	3323	502.7067 ng/ml
Meprobamate	4.906	320543	31460.41	28.2	∞	29707	504.0926 ng/ml
Methadone	5.656	2758789	740979.24	51.0	11784.00	274953	496.6166 ng/ml
Methamphetamine	3.237	2884664	12152.17	42.0	19468.24	256025	485.1675 ng/ml
Metoprolol	4.329	505475	41438.80	91.1	∞	436681	468.8651 ng/ml
Mirtazapine	4.610	3244037	183691.98	47.2	107458.62	209430	506.2996 ng/ml
Mitragynine	5.214	630163	31423.05	38.5	∞	274953	507.4404 ng/ml
Morphine	1.266	146351	58127.89	23.5	1671.98	3797	490.7814 ng/ml
Norbuprenorphine	4.988	19618	531.13	97.3	485.48	18306	48.2219 ng/ml
Nordiazepam	5.891	162472	10320.07	57.8	701129.68	10263	494.0483 ng/ml
Norfentanyl	4.091	325581	64542.65	36.5	3058.40	271890	50.3894 ng/ml
Norhydrocodone	3.080	347229	∞	43.3	2949.65	128337	576.8264 ng/ml
Noroxycodone	2.928	481832	∞	48.0	∞	36195	498.5296 ng/ml
O-desmethyl-tramadol	3.379	4870762	126255.26	6.6	28367.92	453703	494.3352 ng/ml
Oxazepam	5.747	84271	∞	69.5	∞	6813	482.8709 ng/ml
Oxycodone	2.840	1347723	700.46	30.8	∞	118051	494.2642 ng/ml
Oxymorphone	1.423	375954	∞	48.7	∞	29361	502.6725 ng/ml
Phentermine	3.787	748885	4400.51	3.7	∞	176439	472.0997 ng/ml
Promethazine	5.542	2854888	232744.72	28.8	4601.91	243810	491.2710 ng/ml
Quetiapine	5.531	2311684	186635.09	60.2	227827.14	73718	474.7612 ng/ml
Sertraline	5.780	770544	11436.94	88.6	43541.45	61679	509.0893 ng/ml
Temazepam	5.814	549915	1540.55	30.1	904.29	49628	493.5943 ng/ml
Tramadol	4.242	4142667	125784.35	3.6	∞	436681	498.5922 ng/ml
Trazodone	5.092	2306308	2254.95	78.1	2253.40	181518	485.4585 ng/ml
Venlafaxine	5.046	3782753	75572.81	39.1	2578.83	380033	494.2355 ng/ml
Zolpidem	4.862	4601114	185878.76	31.3	4241.31	454741	495.3767 ng/ml

AM #28 Multi-Drug Quant. Results



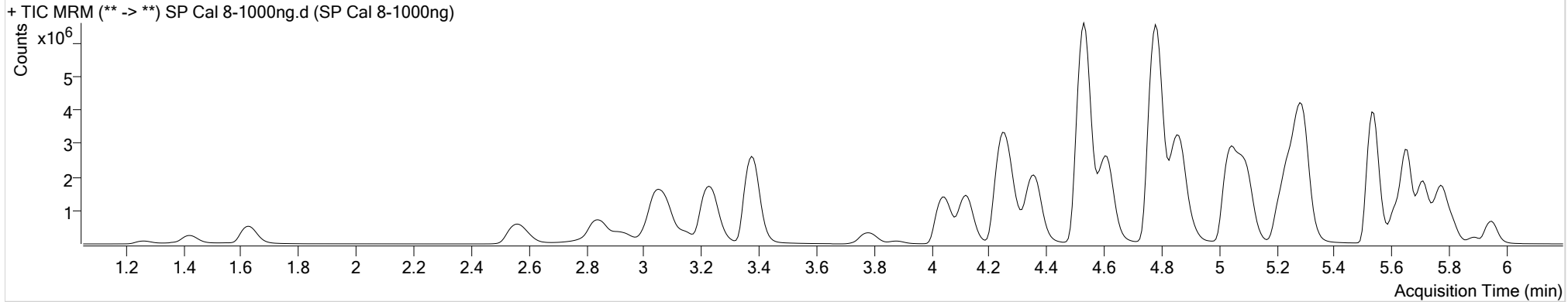
Batch results
Calibration Last Update

D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ SP.batch.bin
6/10/2019 10:51:43 AM

Instrument Falco
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P2-H1
Injection Volume 1
Acq. Date-Time 6/7/2019 1:00:01 AM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	342160	9330.67	72.0	∞	98306	102.6405 ng/ml
7-aminoclonazepam	4.247	540757	27743.21	82.6	41029.33	30203	817.9370 ng/ml
a-hydroxyalprazolam	5.689	259795	3269.78	63.8	4457.25	12367	1008.8477 ng/ml
alpha-PVP	4.366	4255549	338358.31	51.5	266353.53	188680	1007.0403 ng/ml
Alprazolam	5.766	1423776	5585.54	103.9	3190.68	42885	994.6866 ng/ml
Amphetamine	3.062	3478817	18202.14	61.2	22838.75	71388	710.0846 ng/ml
Benzoylcegonine	3.876	154218	13297.87	7.5	1253.03	5725	1056.3795 ng/ml
Buprenorphine	5.735	164265	5122.53	16.5	134.48	69245	99.7764 ng/ml
Bupropion	4.782	14975287	315454.45	58.5	191204.86	554102	987.7569 ng/ml
Carisoprodol	5.721	1012318	270812.27	56.0	669.88	55682	960.0783 ng/ml
Citalopram	5.222	2464780	102673.07	42.3	1636.17	110459	996.5444 ng/ml
Clonazepam	5.595	185473	12884.79	34.0	88869.30	3577	938.3436 ng/ml
Cocaine	4.266	3461506	357651.27	42.4	75606.50	337990	999.1113 ng/ml
Codeine	2.590	436352	2074.61	100.5	38161.79	20276	1000.5574 ng/ml
Cyclobenzaprine	5.618	2349687	375272.12	9.9	32037.88	92006	1009.3766 ng/ml
Dextromethorphan	5.265	1590672	91585.60	79.5	31177.60	77539	995.1102 ng/ml
Dextrorphan	4.122	1479019	53213.33	206.5	169490.78	176388	997.7822 ng/ml
Diazepam	5.952	1050902	11420.25	85.8	11266.32	51598	949.4142 ng/ml

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	1260132	62922.99	66.0	100475.09	80595	897.6747 ng/ml
Diphenhydramine	5.299	7665646	157701.32	34.4	412465.08	410095	998.7435 ng/ml
Doxylamine	4.529	11980966	325134.79	95.7	288819.55	536667	992.7878 ng/ml
EDDP	5.257	3131673	86945.82	42.2	20925.77	162021	1008.7009 ng/ml
Fentanyl	5.079	261016	31102.43	80.9	3061.69	122182	104.8133 ng/ml
Fluoxetine	5.711	2432143	202411.84	9.6	15588.62	96699	985.2324 ng/ml
Hydrocodone	3.025	1474103	∞	40.5	302.48	93630	968.7746 ng/ml
Hydromorphone	1.628	1183241	1631.29	75.8	1938.27	45990	964.2611 ng/ml
Ketamine	4.042	3466140	∞	37.6	83591.49	174973	947.0273 ng/ml
Lamotrigine	4.290	252895	17129.19	78.9	22400.54	174973	664.2102 ng/ml
Lorazepam	5.737	191044	4528.27	57.7	579.55	3577	887.2182 ng/ml
Meprobamate	4.906	584408	1214.35	27.7	13452.17	24961	1093.7555 ng/ml
Methadone	5.656	4559661	337978.29	51.4	2364.83	225433	1001.2462 ng/ml
Methamphetamine	3.231	5284124	8683.39	41.7	7062.82	251921	904.2033 ng/ml
Metoprolol	4.322	781487	86132.29	90.9	∞	393591	804.8043 ng/ml
Mirtazapine	4.610	5864294	321126.19	47.4	108043.73	188680	1014.8174 ng/ml
Mitragynine	5.208	1025181	33458.12	38.7	154430.52	225433	1006.4985 ng/ml
Morphine	1.266	256740	11946.56	23.5	753.28	3423	955.2539 ng/ml
Norbuprenorphine	4.988	34064	2828.93	96.9	1667.96	15143	101.6336 ng/ml
Nordiazepam	5.891	293581	2275.70	58.1	3356.45	9074	1010.0689 ng/ml
Norfentanyl	4.084	596218	380055.81	36.6	4397.63	242952	103.2570 ng/ml
Norhydrocodone	3.080	666713	∞	42.4	567.62	111575	1271.7552 ng/ml
Noroxycodone	2.921	860032	∞	47.5	∞	32948	977.6775 ng/ml
O-desmethyl-tramadol	3.379	9024768	259353.21	6.6	20691.30	418864	992.2434 ng/ml
Oxazepam	5.747	164454	∞	69.2	∞	6440	997.8504 ng/ml
Oxycodone	2.840	2605073	∞	30.9	∞	119475	944.4289 ng/ml
Oxymorphone	1.423	706748	6922.20	48.4	362.85	30070	923.0445 ng/ml
Phentermine	3.787	1258590	4260.79	3.8	1017.68	161730	866.2506 ng/ml
Promethazine	5.542	4506230	8327.79	29.2	7846.69	187880	1006.3673 ng/ml
Quetiapine	5.531	3857075	4387.48	59.8	∞	65632	890.1861 ng/ml
Sertraline	5.780	1027040	24815.54	90.6	38889.86	42025	996.2155 ng/ml
Temazepam	5.814	1010718	3784.37	30.8	597.35	44169	1019.2604 ng/ml
Tramadol	4.242	7045446	∞	3.7	∞	393591	941.4100 ng/ml
Trazodone	5.092	4031599	105265.00	78.4	73641.09	147928	1039.8925 ng/ml
Venlafaxine	5.040	6918437	223382.25	38.9	∞	342749	1002.4133 ng/ml
Zolpidem	4.862	8466408	194909.03	31.3	∞	437549	947.5334 ng/ml