

Worklist: 3414

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
M2019-1673	1	152769	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1743	1	152770	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1778	1	152771	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1833	2	152772	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1939	1	152773	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1991	1	152774	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1992	1	152775	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2010	1	152776	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2014	2	152777	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2025	2	152778	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-2030	1	152779	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1301	1	152780	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1321	1	152781	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1324	1	152782	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1326	1	152783	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1364	1	152784	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1365	1	152785	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1383	1	152786	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1416	1	152787	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1417	1	152788	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1421	1	152789	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1422	1	152790	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-1423	1	152791	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	

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

TS

Extraction Date: 06/06/19
Plate lot#: 190124 Item #: IDP-111

Analyst: Tamara Salazar
Plate Expiration: 07/24/19

Mobile phase A: 5mM Amm Form + 0.01% FA
0.5M Ammonium Hydroxide

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate 20% Methanol in Water

Blank Blood Lot: 445283-2

Column: ~~Agilent 120 EC C18 (2.1x 100-4um)~~

LCMS-QQQ ID: 069901

Agilent 120 EC-C18 (2.1 x 100-2.7um) 09/16/19

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Pre-Analytic:

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

Analytic:

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

Post-Analytic

- 1. Create batch and process data.
Worklist path: D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP
Batch Name: MDQ wklst3414 TS.batch.bin
- 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: *Samples were originally extracted on 05/29/19. Due to variable internal standards in the initial run, the samples were re-extracted on 06/06/19.*

P2019-1324-Temazepam reported qualitatively due to qualifier ion peak shape

Curves Limited: Amphetamine 5-500, Clonazepam 25-1000—evaluated qualitatively only, Lamotrigine 5-500, Lorazepam 10-1000, Mitragynine 5-250, Norhydrocodone 5-250, Trazodone 5-500

Not evaluated: EDDP—variable internal standard response, Oxazepam—low internal standard responses and poor peak shapes.



Idaho State Police Forensic Services

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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)
*50ul of methanol external control solution was added to 9950ul of blood.
Approximately 50ng/mL of each compound.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	177145
Methanol External Control Solution		121218
Prepared:	12/12/18	
Prepared By:	Sarah Pickle	
Expires:	12/12/19	

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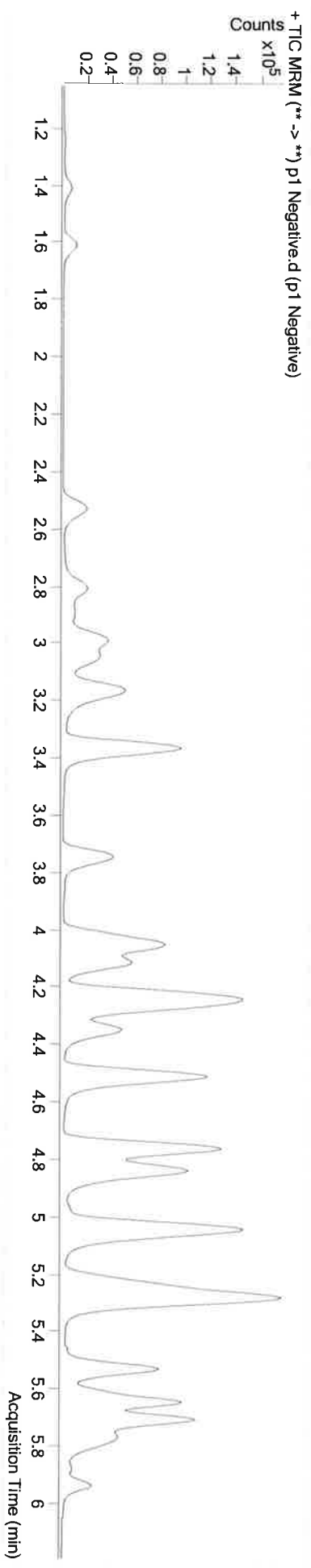
AM #28 Multi-Drug Quant. Results



Batch results Calibration Last Update 6/10/2019 9:31:49 AM D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk153414 TS.batch.bin

Instrument Type	Falco Sample	Data File	p1 Negative.d
Acq. Method	MDQ P1 Combined 011619.m	Sample Operator	p1 Negative
Sample Position	P1-D11	Comment	
Injection Volume	1		
Acq. Date-Time	6/6/2019 2:52:35 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Bupropion	4.789	1976	75.73			443735	1.5896 ng/ml <5 <i>TS</i>
Citalopram	5.222	1231	19.79	55.0 High	98.15	127814	1.9322 ng/ml <5 <i>TS</i>
Cyclobenzaprine	5.625	2605	62.06	8.8	37.18	78918	1.8892 ng/ml <5 <i>TS</i>
Diphenhydramine	5.292	3447	53.94			439453	2.1309 ng/ml <5 <i>TS</i>
Doxylamine	4.529	696	15.79			397882	1.6364 ng/ml <5 <i>TS</i>
EDDP	5.263	924	89.14	45.3	∞	165540	5.4784 ng/ml compound not calibrated. -TS

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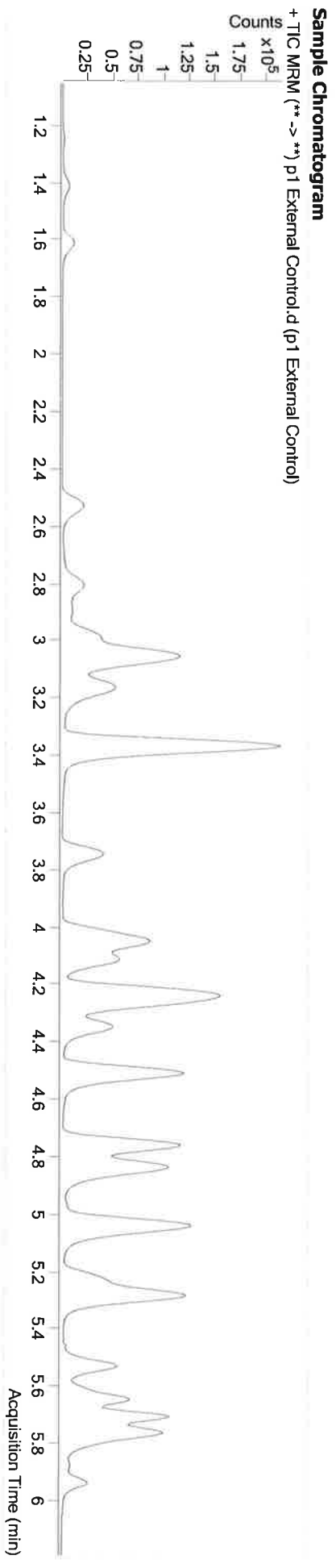
AM #28 Multi-Drug Quant. Results



Batch results
Calibration Last Update 6/10/2019 9:31:49 AM
D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk13414 TS.batch.bin

Instrument Type Falco
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-C11
Injection Volume 1
Acq. Date-Time 6/6/2019 3:13:34 PM
Sample Info.

Data File p1 External Control.d
Sample Operator p1 External Control
Comment



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.766	81380	3910.82	106.3	1735.55	51746	43.0003 ng/ml
Amphetamine	3.062	235025	450.54	56.4	2669.98	67296	45.3933 ng/ml
Bupropion	4.782	1703	38.10			406329	1.5817 ng/ml <5 TS
Citalopram	5.222	1098	20.41			95174	2.0048 ng/ml <5 TS
Cyclobenzaprine	5.625	2279	39.60	9.2	10.03	51543	2.2925 ng/ml <5 TS
Diphenhydramine	5.292	3075	41.88			326336	2.2025 ng/ml <5 TS
Doxylamine	4.535	661	11.91			408735	1.6315 ng/ml <5 TS
Fluoxetine	5.711	57707	3863.76	9.2	∞	61288	33.0632 ng/ml
O-desmethyl-tramadol	3.379	360458	1547.11	6.5	1283.40	365912	41.4024 ng/ml

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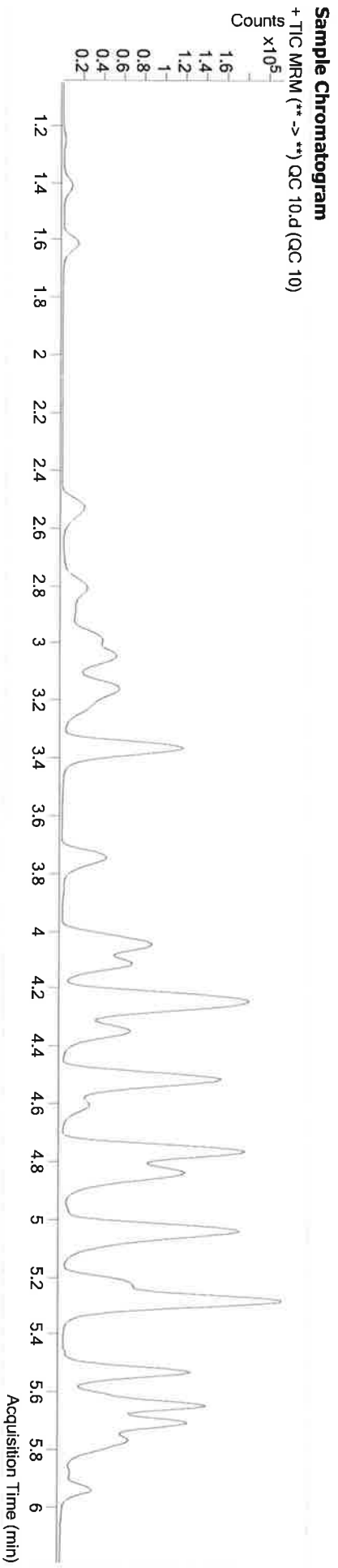
AM #28 Multi-Drug Quant. Results



Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
6/10/2019 9:31:49 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info.
Falco QC MDQ P1 Combined 011619.m P1-H11 1 6/6/2019 12:57:26 PM

Data File QC 10.d
Sample Operator
Comment



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	1271	78.78	78.3	113.54	40383	0.8843 ng/ml
7-aminoclozapepam	4.253	9629	1439.73	81.8	∞	38214	9.8072 ng/ml
a-hydroxyalprazolam	5.682	2332	61.28	58.5	138.59	11260	9.6758 ng/ml
alpha-PVP	4.360	34884	4592.80	52.7	760.80	154586	9.6518 ng/ml
Alprazolam	5.766	15813	220.26	111.7	413.82	47353	10.2607 ng/ml
Amphetamine	3.062	50845	249.94	61.5	1182.40	70522	8.9829 ng/ml
Benzoylcegonine	3.870	1220	3259.37	8.6	26.91	4064	9.8008 ng/ml
Buprenorphine	5.735	2861	83.14	17.1	89.34	111401	1.0586 ng/ml
Bupropion	4.782	139430	8430.81	57.6	1394.20	438430	11.1082 ng/ml
Carisoprodol	5.714	12291	32894.30	56.4	91.95	65835	9.5461 ng/ml
Citalopram	5.222	32417	840.48	43.9	1904.14	135425	10.6671 ng/ml
Clozapepam	5.692	1354	∞	46.9 High	491.54	2632	3.1503 ng/ml
Cocaine	4.266	31591	∞	42.4	241.71	291258	10.2581 ng/ml
Codeine	2.583	4386	347.46	104.9	2654.16	19474	10.4318 ng/ml
Cyclobenzaprine	5.618	24471	251.16	9.7	419.81	79376	11.8034 ng/ml
Dextromethorphan	5.265	19045	3473.36	78.5	∞	87889	10.0173 ng/ml
Dextroproprian	4.122	14215	1241.81	203.2	2495.52	154643	10.8949 ng/ml
Diazepam	5.952	11258	137.51	85.6	984.65	48989	10.1516 ng/ml

outside curve rang. 15

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AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	11837	2530.82	66.0	1637.70	61139	10.0110 ng/ml
Diphenhydramine	5.292	94975	6188.92	33.9	6220.49	468029	10.9813 ng/ml
Doxylamine	4.529	92567	689.90	97.0	7241.05	392131	10.4727 ng/ml
EDDP	5.257	1651	78.24	41.8	∞	6526	16.1786 ng/ml <i>Not evaluated. ID</i>
Fentanyl	5.079	2386	268.16	75.3	271.93	108663	1.0264 ng/ml
Fluoxetine	5.711	27236	1187.13	9.7	962.91	84707	11.6239 ng/ml
Hydrocodone	3.025	12688	89.66	42.6	334.06	72909	9.8858 ng/ml
Hydromorphone	1.621	10587	256.71	75.3	113.06	37943	9.6581 ng/ml
Ketamine	4.042	29278	1095.30	37.9	152.41	134902	9.6251 ng/ml
Lamotrigine	4.290	3147	278.50	84.9	728.36	134902	9.1691 ng/ml
Lorazepam	5.737	1631	11.12	65.4	5.04 Low	2632	9.5452 ng/ml
Meprobanate	4.899	4699	349.61	31.1	65.98	22191	9.6561 ng/ml
Methadone	5.650	54784	819.42	50.5	403.85	239306	11.2290 ng/ml
Methamphetamine	3.231	51085	164.59	39.4	209.14	191113	9.7534 ng/ml
Metoprolol	4.322	9242	676.08	95.6	∞	346004	9.1383 ng/ml
Mirtazapine	4.610	52896	1034.41	48.0	1422.21	154586	10.4923 ng/ml
Mitragynine	5.208	7780	∞	38.6	3935.89	239306	8.2685 ng/ml
Morphine	1.260	2896	1491.03	25.9	486.65	3978	9.1087 ng/ml
Norbuprenorphine	4.982	383	58.79	105.0	352.00	14572	0.9084 ng/ml
Nordiazepam	5.891	2560	911.93	61.4	99.11	7486	10.3776 ng/ml
Norfentanyl	4.084	4655	833.23	36.3	∞	200254	0.9473 ng/ml
Norhydrocodone	3.066	2568	75.61	41.8	∞	89026	8.2638 ng/ml
Noroxycodone	2.915	8116	128.85	48.7	62.69	29759	9.5743 ng/ml
O-desmethyl-tramadol	3.373	73312	3080.64	7.0	346.74	327005	9.8068 ng/ml
Oxycodone	2.833	22187	∞	30.8	26.75	91610	9.7857 ng/ml
Oxymorphone	1.417	6622	219.09	48.9	∞	25134	9.4482 ng/ml
Phenentermine	3.781	15318	153.63	3.9	13.31	151709	9.9343 ng/ml
Promethazine	5.535	48044	605.92	28.5	366.46	161595	11.9854 ng/ml
Quetiapine	5.531	47862	3588.32	59.0	13803.85	60882	10.9115 ng/ml
Sertraline	5.780	15134	335.01	93.5	∞	49056	11.9613 ng/ml
Temazepam	5.808	9187	33.59	30.4	14.33	39639	9.9110 ng/ml
Tramadol	4.242	73549	6285.35	3.7	72.98	346004	10.0872 ng/ml
Trazodone	5.092	33823	302.76	77.5	321.98	128790	11.3470 ng/ml
Venlafaxine	5.040	61120	1234.45	39.8	316.09	297157	10.4849 ng/ml
Zolpidem	4.862	66891	793.36	31.2	4990.75	313141	9.8725 ng/ml

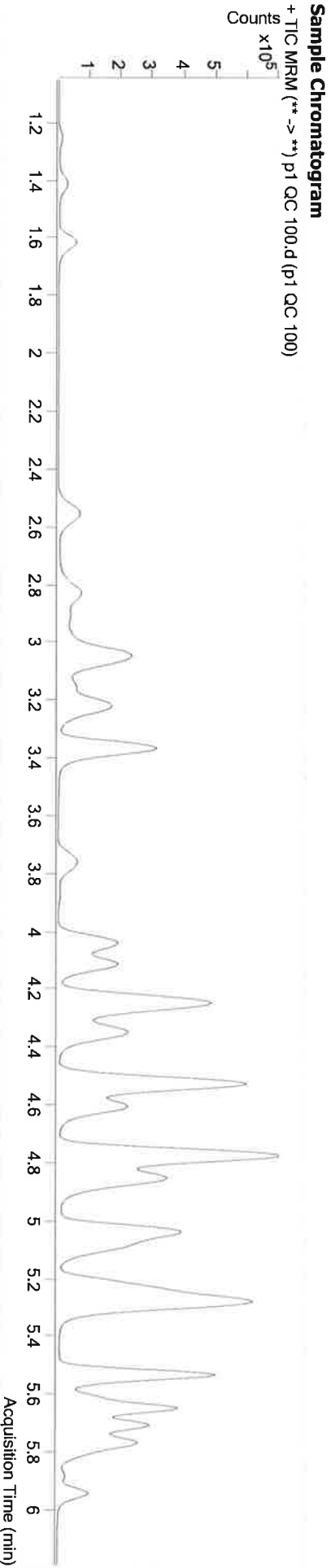


AM #28 Multi-Drug Quant. Results

Batch results
D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Calibration Last Update 6/10/2019 9:31:49 AM

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-G11
Injection Volume 1
Acq. Date-Time 6/6/2019 1:18:21 PM
Sample Info.

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	5941	∞	70.8	232.65	18485	8.4519 ng/ml
7-aminoclonazepam	4.253	86645	28052.97	84.0	6582.01	36318	101.5140 ng/ml
a-hydroxyalprazolam	5.689	23105	181.37	62.2	415.69	10762	95.0641 ng/ml
alpha-PVP	4.360	339317	23031.65	51.3	3706.92	150552	90.8026 ng/ml
Alprazolam	5.766	153503	2327.15	107.5	2552.57	46632	88.4364 ng/ml
Amphetamine	3.055	483489	4758.89	56.7	∞	64211	98.4353 ng/ml
Benzoylcegonine	3.876	9887	582.58	7.6	366.95	3731	91.2179 ng/ml
Buprenorphine	5.735	23309	288.49	15.9	1135.19	98890	8.6918 ng/ml
Bupropion	4.782	1349089	76544.09	57.5	46348.68	444077	93.6739 ng/ml
Carisoprodol	5.714	120627	253539.81	55.3	516.41	63451	90.9624 ng/ml
Citalopram	5.222	278557	4538.14	44.0	1188.85	122200	88.2359 ng/ml
Clonazepam	5.602	14757	∞	32.3	2088.31	2449	94.0256 ng/ml
Cocaine	4.266	293259	64282.45	43.3	25216.79	276352	87.4173 ng/ml
Codeine	2.583	41288	2354.37	103.4	9238.37	19043	89.2640 ng/ml
Cyclobenzaprine	5.618	211968	133533.16	11.0	23326.71	82015	93.7827 ng/ml
Dextromethorphan	5.265	153259	8467.82	78.7	1729.71	77121	87.8087 ng/ml
Dextropropphan	4.122	138250	4499.15	202.0	∞	153887	92.1451 ng/ml
Diazepam	5.952	108075	1469.25	86.2	2198.97	48133	94.8534 ng/ml

TS

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	113311	15079.66	66.8	16631.21	61305	94.9246 ng/ml
Diphenhydramine	5.292	809110	37199.84	33.9	12333.18	424162	88.3163 ng/ml
Doxylamine	4.529	894362	46122.36	98.7	106157.88	390337	87.9774 ng/ml
EDDP	5.257	312220	5465.44	42.5	1114.98	171354	84.1554 ng/ml
Fentanyl	5.079	21052	1252.37	76.3	∞	106346	8.9354 ng/ml
Fluoxetine	5.711	238195	19627.73	9.7	14928.73	94273	87.8706 ng/ml
Hydrocodone	3.018	126525	328.34	40.2	341.56	73529	94.9281 ng/ml
Hydromorphone	1.621	99479	738.63	75.0	658.98	37720	88.8452 ng/ml
Ketamine	4.042	279466	1741.47	38.3	2593.69	133125	90.9516 ng/ml
Lamotrigine	4.284	31718	1789.76	78.8	10789.18	133125	99.2174 ng/ml
Lorazepam	5.737	16357	214.79	53.0	56.01	2449	97.2955 ng/ml
Meprobamate	4.906	47057	30777.81	28.4	317.25	21840	92.6095 ng/ml
Methadone	5.650	462547	∞	49.6	2009.84	211988	93.5702 ng/ml
Methamphetamine	3.231	456928	1978.28	41.2	1603.50	182882	94.5512 ng/ml
Metoprolol	4.322	89838	88402.10	90.4	∞	347678	98.0855 ng/ml
Mirtazapine	4.610	464145	25345.18	47.5	2826.66	150552	95.1258 ng/ml
Mitragynine	5.214	72124	131969.67	39.7	479.73	211988	85.2856 ng/ml
Morphine	1.260	27674	1080.03	24.1	7348.04	3828	86.4733 ng/ml
Nortubrenorphine	4.988	3344	712.17	101.3	1897.96	13568	9.4011 ng/ml
Nordiazepam	5.891	23871	1848.30	56.9	810.66	8065	83.5476 ng/ml
Norfentanyl	4.084	49230	5410.88	35.6	395.18	209912	9.0081 ng/ml
Norhydrocodone	3.073	35182	2051.95	42.1	608.15	96212	83.6478 ng/ml
Noroxycodone	2.915	78130	298.36	46.5	131.41	28129	93.1766 ng/ml
O-desmethyl-tramadol	3.373	720914	16939.34	6.6	2137.77	328414	91.6480 ng/ml
Oxazepam	5.747	13659	70.52	66.7	75.19	5336	90.3971 ng/ml
Oxycodone	2.833	204782	131.22	31.2	∞	89155	91.2337 ng/ml
Oxymorphone	1.417	63520	372.10	45.9	337.09	23423	97.0506 ng/ml
Phentermine	3.781	138268	975.90	3.5	181.40	144265	96.2393 ng/ml
Promethazine	5.535	396061	65432.09	28.8	782.87	162033	94.6196 ng/ml
Quetiapine	5.531	425359	4041.14	58.2	6581.28	58070	99.4681 ng/ml
Sertaline	5.780	125160	894.64	95.2	3033.54	51091	91.6469 ng/ml
Temazepam	5.814	84279	10071.57	31.5	299.30	39075	89.1591 ng/ml
Tramadol	4.242	684051	52212.87	3.6	300.88	347678	93.4265 ng/ml
Trazodone	5.092	306215	3103.84	77.2	8188.35	130982	85.4794 ng/ml
Venlafaxine	5.040	592194	17978.65	38.8	1102.88	290961	87.3375 ng/ml
Zolpidem	4.862	663963	3487.14	32.3	3255.67	319469	92.8274 ng/ml

Not evaluated. - TS

Not evaluated. TS

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AM #28 Multi-Drug Quant. Results

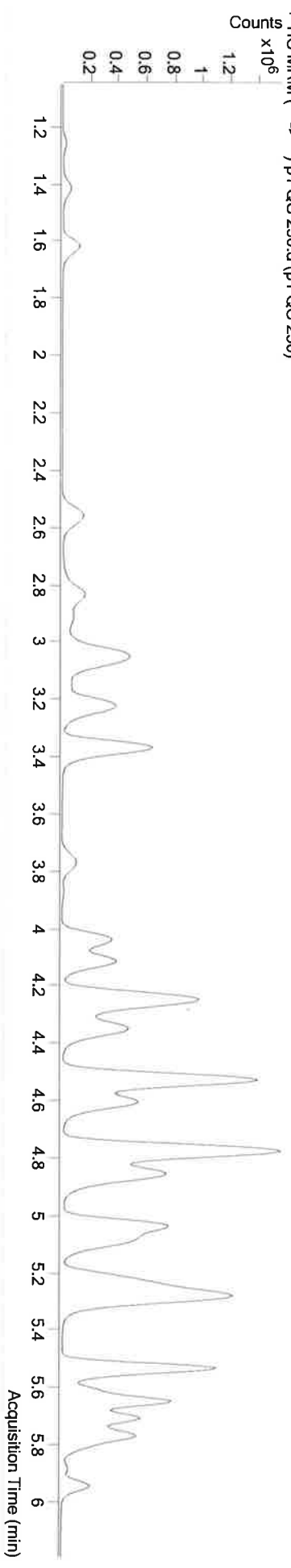


Batch results
 Calibration Last Update 6/10/2019 9:31:49 AM
 D:\MassHunter\Data\2019 AM 28\060619 MDQ TS SP\QuantResults\MDQ wk153414 TS_batch.bin

Instrument Falco
Type QC
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-F11
Injection Volume 1
Acq. Date-Time 6/6/2019 1:39:17 PM
Sample Info.

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

Sample Chromatogram
 + TIC MRM (** -> **) p1 QC 250.d (p1 QC 250)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	13536	303.44	72.7	827.85	16160	21.9268 ng/ml
7-aminoclonazepam	4.253	195058	9659.11	83.6	26473.70	34814	239.7847 ng/ml
a-hydroxyalprazolam	5.689	56046	546.88	62.8	1123.71	10522	235.0326 ng/ml
alpha-PVP	4.360	831011	38309.72	51.5	24979.79	148987	223.7995 ng/ml
Alprazolam	5.766	362036	3491.95	106.1	2693.27	43135	223.2628 ng/ml
Amphetamine	3.062	1060219	∞	56.5	14539.22	61203	227.0965 ng/ml
Benzoyllecgonine	3.876	23915	790.59	7.6	318.44	3656	226.0168 ng/ml
Buprenorphine	5.735	54821	3019.13	15.9	1206.26	91084	21.9999 ng/ml
Bupropion	4.782	3252862	115501.93	58.0	75566.13	436009	227.9244 ng/ml
Carisoprodol	5.714	281910	261297.22	55.1	970.25	59312	226.3932 ng/ml
Citalopram	5.222	661336	1333.72	43.6	2023.35	119308	212.3205 ng/ml
Clonazepam	5.602	37067	4741.17	33.4	392.31	2722	219.2226 ng/ml
Cocaine	4.259	726923	55831.77	42.2	75728.84	277035	213.9826 ng/ml
Codeine	2.583	98924	992.96	104.7	3028.29	18717	215.7351 ng/ml
Cyclobenzaprine	5.618	519568	325934.06	10.6	8508.81	80701	232.5771 ng/ml
Dextromethorphan	5.265	359909	61512.08	80.2	27671.95	74590	212.4954 ng/ml
Dextroproprian	4.122	338581	34085.49	205.8	41072.87	152035	225.9993 ng/ml
Diazepam	5.952	260245	2173.09	86.8	∞	47850	229.0555 ng/ml

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AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	272954	60290.18	67.5	46108.57	61682	227.1601 ng/ml
Diphenhydramine	5.292	1910167	∞	34.2	21793.76	409007	213.6544 ng/ml
Doxylamine	4.529	2246773	197131.09	98.7	119544.58	400101	213.3406 ng/ml
EDDP	5.257	728165	66235.73	42.4	3166.22	163079	198.3221 ng/ml
Fentanyl	5.079	51283	11291.26	78.1	205741.16	105707	21.8408 ng/ml
Fluoxetine	5.711	589727	33688.06	9.7	∞	95957	213.0085 ng/ml
Hydrocodone	3.025	307856	∞	39.7	111.90	71088	238.4222 ng/ml
Hydromorphone	1.621	240982	1525.56	74.5	1436.42	36441	222.3432 ng/ml
Ketamine	4.042	690959	42747.87	37.9	2281.01	134729	221.8357 ng/ml
Lamotrigine	4.284	75487	6805.90	78.2	∞	134729	234.1366 ng/ml
Lorazepam	5.737	38876	368.79	55.2	∞	2722	207.4087 ng/ml
Meperbamate	4.906	113668	10338.70	28.3	1187.71	21987	221.3484 ng/ml
Methadone	5.656	1095562	65655.38	50.1	5674.51	208757	222.8389 ng/ml
Methamphetamine	3.231	1064981	2136.35	40.9	3193.44	177736	227.3231 ng/ml
Metoprolol	4.322	213207	57216.06	90.8	∞	331594	245.7345 ng/ml
Mirtazapine	4.610	1141956	60594.70	47.9	164028.24	148987	236.6100 ng/ml
Miltargyline	5.214	176748	2264.41	39.7	∞	208757	212.0386 ng/ml
Morphine	1.260	65265	1302.07	23.6	11677.53	3647	213.3713 ng/ml
Norbuprenorphine	4.988	7992	228.24	96.5	3738.12	13855	22.1478 ng/ml
Nordiazepam	5.891	58860	2071.03	58.2	1310.40	7842	210.6008 ng/ml
Norfentanyl	4.084	122917	857.32	35.9	635.47	210661	22.3214 ng/ml
Northydrocodone	3.073	104108	1018.67	42.1	556.59	97453	240.8994 ng/ml
Noroxycodone	2.915	188704	∞	46.7	∞	27859	226.5427 ng/ml
O-desmethyl-tramadol	3.373	1808090	42774.65	6.6	6511.25	329963	228.0346 ng/ml
Oxazepam	5.747	33041	151.20	67.8	161.00	5374	211.5223 ng/ml
Oxycodone	2.833	526550	∞	30.3	1820.61	90053	231.9604 ng/ml
Oxymorphone	1.417	147037	1525.88	47.0	968.52	23503	223.8578 ng/ml
Phentermine	3.781	317379	∞	3.5	203.54	139139	229.3620 ng/ml
Promethazine	5.535	983670	15857.04	29.0	968.62	166396	228.0703 ng/ml
Quetiapine	5.531	1005444	22442.85	58.8	568184.91	56011	243.3779 ng/ml
Sertraline	5.780	295328	8758.40	92.7	25856.40	48555	226.8348 ng/ml
Temazepam	5.814	204310	649.20	30.7	113.24	38657	217.9430 ng/ml
Tramadol	4.242	1665201	80479.93	3.6	1058.86	331594	238.4739 ng/ml
Trazodone	5.092	768774	84598.91	77.6	943.08	127219	217.8340 ng/ml
Venlafaxine	5.040	1465530	∞	39.2	2108.41	290471	213.7738 ng/ml
Zolpidem	4.862	1655063	∞	32.3	93956.60	326815	225.6587 ng/ml

Not excluded. TS

Not excluded. TS

TS

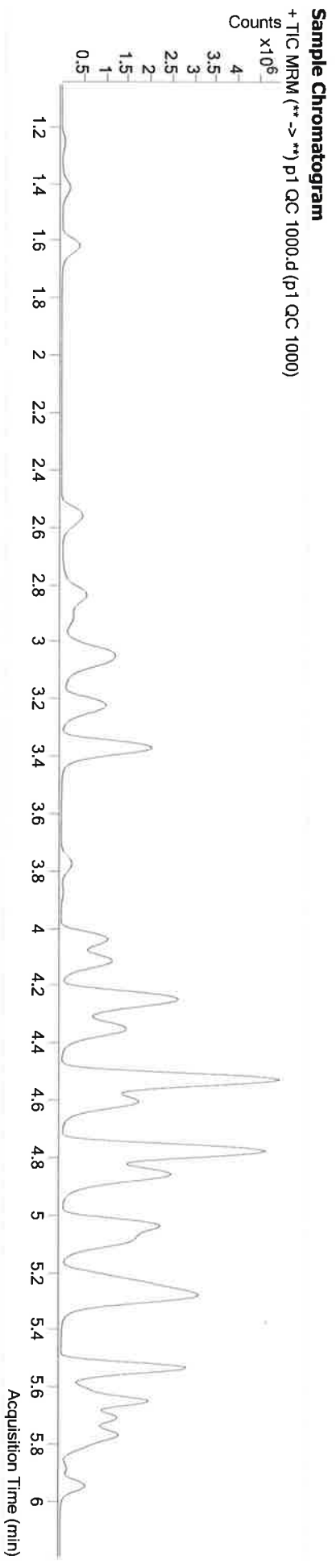
AM #28 Multi-Drug Quant. Results



Batch results
 Calibration Last Update: 6/10/2019 9:31:49 AM
 D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk15r3414 TS_batch.bin

Instrument
 Type: Falco
 Acq. Method: QC
 Sample Position: MDQ P1 Combined 011619.m
 Injection Volume: P1-E11
 Acq. Date-Time: 1
 Sample Info: 6/6/2019 2:00:13 PM

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	41270	723.72	73.2	∞	12096	89.1124 ng/ml
7-aminoclonazepam	4.247	466966	28475.44	84.5	22016.84	24789	808.6164 ng/ml
a-hydroxyalprazolam	5.689	209735	1931.96	62.1	657.45	10486	880.9980 ng/ml
alpha-PVP	4.360	2900619	160804.72	50.9	70133.95	127864	908.3029 ng/ml
Alprazolam	5.766	1158327	1693.89	105.4	3848.72	34149	897.9393 ng/ml
Amphetamine	3.062	2676813	26565.84	56.4	23217.63	45818	767.0548 ng/ml
Benzoylcegonine	3.876	99444	13317.82	7.4	1520.77	3634	947.4555 ng/ml
Buprenorphine	5.735	117859	3619.71	16.2	5890.42	49643	86.4111 ng/ml
Bupropion	4.782	10316557	994056.37	58.0	172598.93	349937	896.3761 ng/ml
Carisoprodol	5.721	891286	173435.24	54.8	8674.91	48972	864.9763 ng/ml
Citalopram	5.222	1816967	138869.69	43.6	759.12	82819	835.7109 ng/ml
Clonazepam	5.602	150310	2250.23	33.9	∞	2765	891.0121 ng/ml
Cocaine	4.266	2362260	725.75	42.2	699.89	228337	839.3387 ng/ml
Codeine	2.590	326552	1930.67	101.6	3209.22	15728	843.6717 ng/ml
Cyclobenzaprine	5.618	1306360	55740.15	10.6	386.09	51792	909.1303 ng/ml
Dextromethorphan	5.265	927557	∞	79.0	49805.99	48035	848.9023 ng/ml
Dextropropriphan	4.122	1156588	118517.23	203.4	50291.43	131957	884.6802 ng/ml
Diazepam	5.952	842348	25325.80	86.1	4574.15	38867	911.2719 ng/ml

outside curve range. TS

15

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	955973	87507.63	67.0	28000.47	59117	829.9026 ng/ml
Diphenhydramine	5.292	5321558	243397.74	33.9	36640.52	279212	866.4507 ng/ml
Doxylamine	4.529	8597513	538631.59	97.2	761041.19	382982	848.1525 ng/ml
EDDP	5.257	2853567	183674.21	42.8	76663.80	156404	794.2022 ng/ml
Fentanyl	5.079	135591	1409.67	81.0	778.17	67901	89.7751 ng/ml
Fluoxetine	5.711	1326356	120449.84	9.5	16752.05	56331	814.6538 ng/ml
Hydrocodone	3.018	1114480	∞	40.6	292.27	69526	881.6610 ng/ml
Hydromorphone	1.621	888996	4526.44	74.8	∞	34541	864.5063 ng/ml
Ketamine	4.042	2483633	13728.25	38.1	4005.42	125384	856.1030 ng/ml
Lamotrigine	4.290	214715	20331.08	78.8	∞	125984	716.8525 ng/ml
Lorazepam	5.737	155703	7122.73	54.7	402.44	2765	816.0193 ng/ml
Meproramate	4.906	416973	39263.16	28.0	477.89	18520	961.9163 ng/ml
Methadone	5.656	3157683	335089.97	49.8	7056.15	150146	888.2524 ng/ml
Methamphetamine	3.231	2913235	7550.00	41.5	43707.57	135687	815.5903 ng/ml
Metoprolol	4.322	640544	294788.90	89.4	∞	298227	823.4826 ng/ml
Mirtazapine	4.610	3743382	611282.74	47.8	214235.53	127864	903.9569 ng/ml
Miltargyline	5.214	489158	1054.84	39.7	333116.55	150146	815.5228 ng/ml
Morphine	1.260	208076	5626.41	25.5	307331.72	3039	815.0903 ng/ml
Norbuprenorphine	4.988	23616	3115.66	96.9	2452.81	10634	85.5762 ng/ml
Nordiazepam	5.891	212869	5359.44	58.6	1452.64	7098	839.0644 ng/ml
Norfentanyl	4.084	449859	5329.53	36.7	3407.81	189077	90.8330 ng/ml
Norhydrocodone	3.073	443306	6917.09	42.4	∞	85812	1157.9970 ng/ml
Noroxycodone	2.921	667520	∞	47.1	∞	25959	858.7097 ng/ml
O-desmethyl-tramadol	3.379	6716142	156561.20	6.7	3367.25	313322	890.5701 ng/ml
Oxazepam	5.747	126916	542.13	68.3	190.08	5131	838.9885 ng/ml
Oxycodone	2.840	1984375	∞	30.3	∞	89887	875.2786 ng/ml
Oxymorphone	1.417	544391	266.43	46.2	∞	22732	856.8735 ng/ml
Phentermine	3.781	889372	4349.31	3.5	1580.57	110983	806.3559 ng/ml
Promethazine	5.535	2463919	29951.16	28.9	21070.13	105472	899.6561 ng/ml
Quetiapine	5.531	3138790	228141.06	59.9	8480.61	48586	875.2112 ng/ml
Sertraline	5.780	584209	54128.56	91.1	52731.93	24675	881.5911 ng/ml
Temazepam	5.814	742658	2166.63	31.0	1963.89	34689	881.6945 ng/ml
Tramadol	4.242	5552441	161016.89	3.7	6041.53	298227	884.1524 ng/ml
Trazodone	5.092	2556919	3655.99	78.0	99713.81	95944	953.9734 ng/ml
Venlafaxine	5.040	5207186	∞	39.8	10880.32	256831	853.4806 ng/ml
Zolpidem	4.862	6260268	222219.35	31.8	180438.08	317741	876.8606 ng/ml

Not evaluated. TS

outside curve range. TS

outside curve range. TS

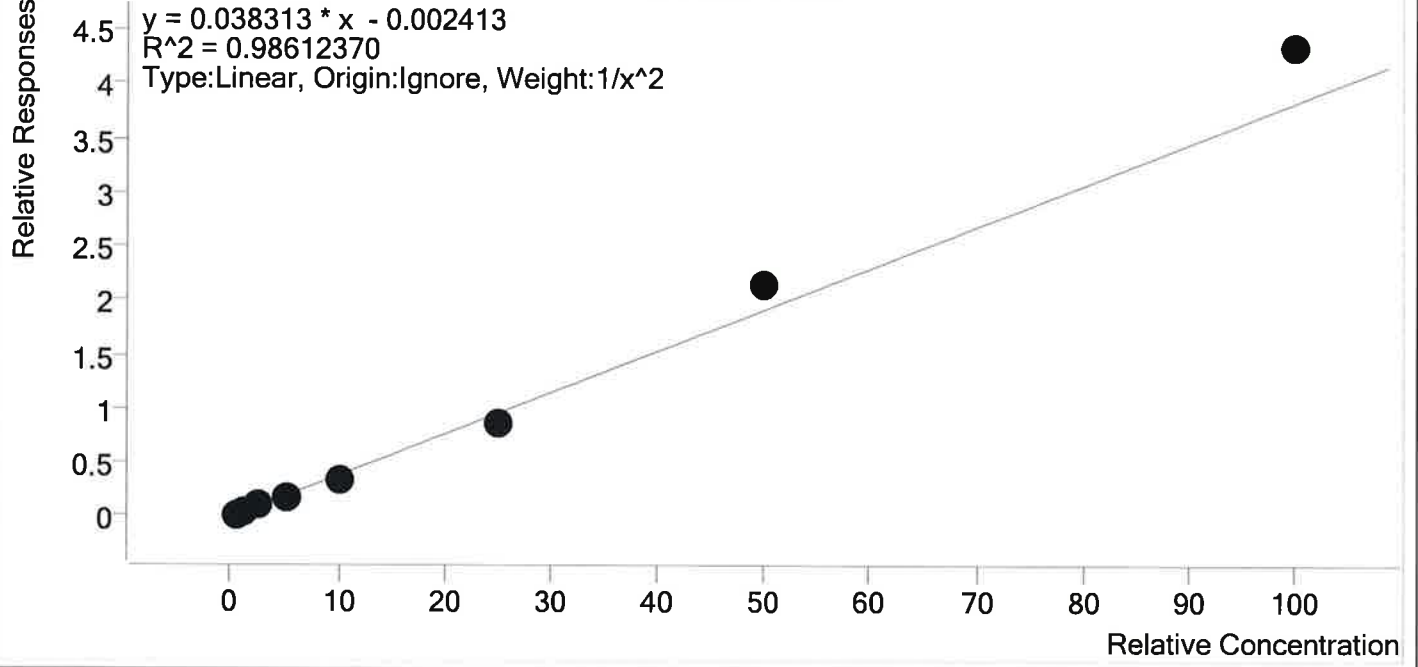
outside curve range. TS

outside curve range. TS

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6

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

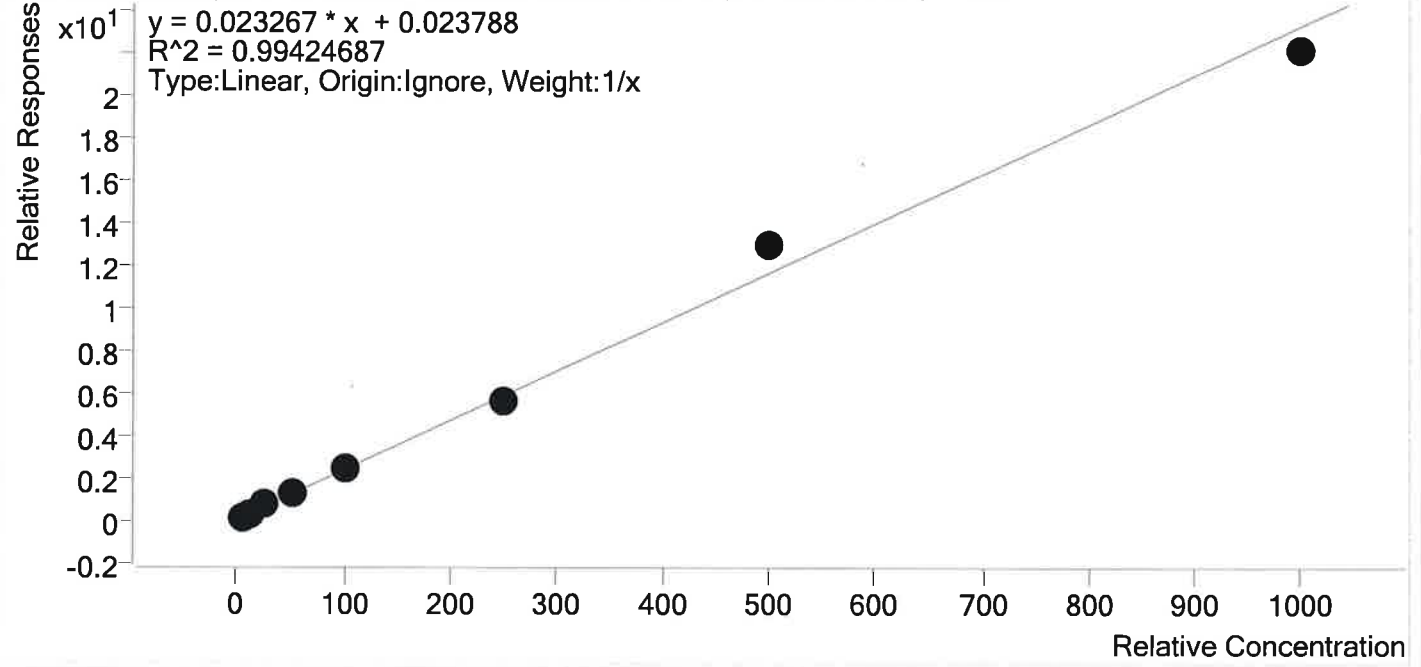


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.8
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.9
p1 Cal 3- 25ng	3	✓	2.5	2.7	109.3
p1 Cal 4-50ng	4	✓	5.0	4.5	90.2
p1 Cal 5-100ng	5	✓	10.0	8.8	88.5
p1 Cal 6-250ng	6	✓	25.0	22.2	88.9
p1 Cal 7-500ng	7	✓	50.0	55.6	111.2
p1 Cal 8-1000ng	8	✓	100.0	113.2	113.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4

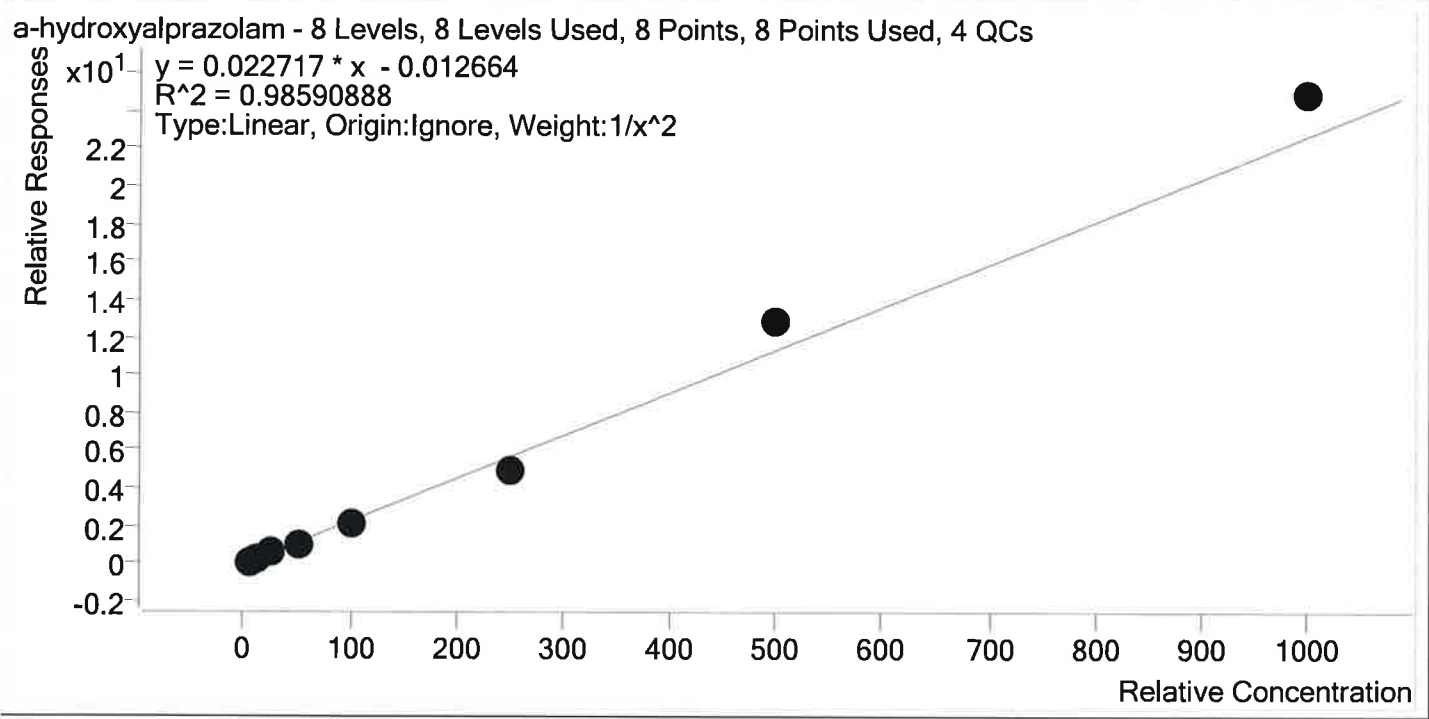
7-aminoclonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	83.7
p1 Cal 2- 10ng	2	✓	10.0	9.4	94.5
p1 Cal 3- 25ng	3	✓	25.0	29.8	119.2
p1 Cal 4-50ng	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	239.3	95.7
p1 Cal 7-500ng	7	✓	500.0	555.8	111.2
p1 Cal 8-1000ng	8	✓	1000.0	950.5	95.1

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte a-hydroxyalprazolam **Internal Standard** a-hydroxyalprazolam-D5

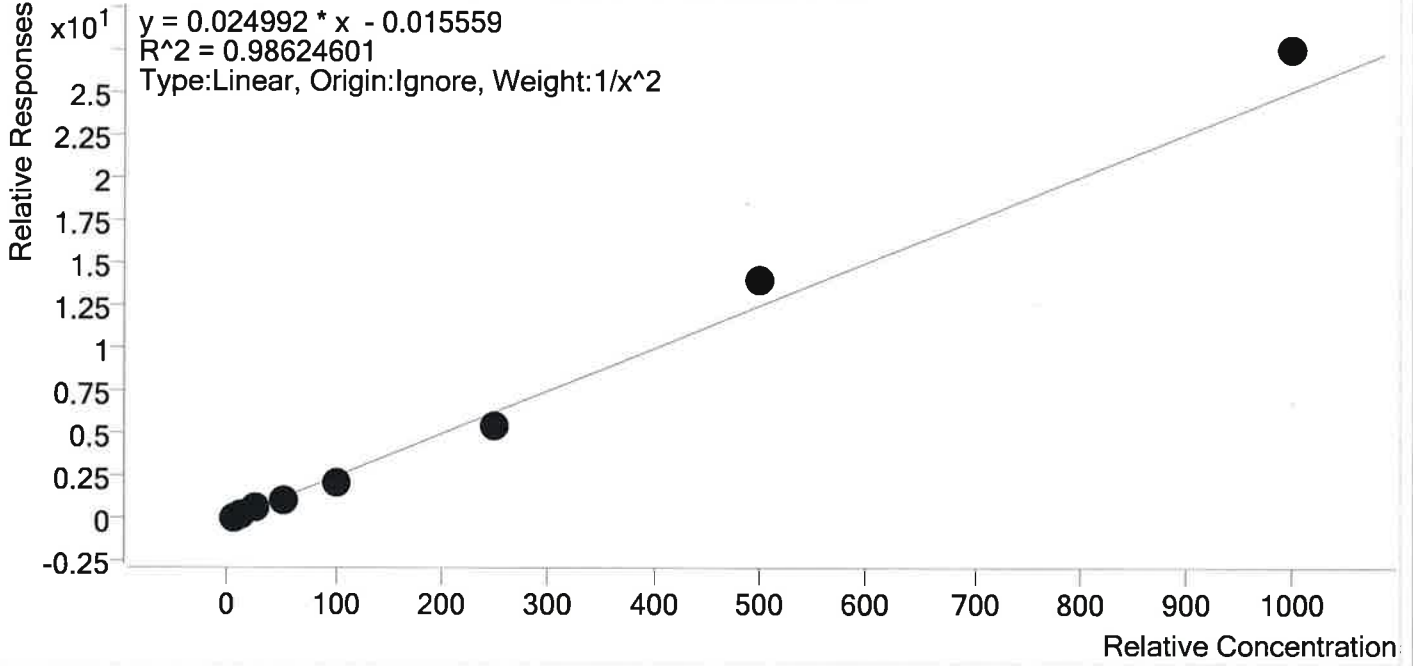


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
p1 Cal 3- 25ng	3	✓	25.0	27.4	109.6
p1 Cal 4-50ng	4	✓	50.0	42.9	85.9
p1 Cal 5-100ng	5	✓	100.0	93.1	93.1
p1 Cal 6-250ng	6	✓	250.0	219.5	87.8
p1 Cal 7-500ng	7	✓	500.0	564.2	112.8
p1 Cal 8-1000ng	8	✓	1000.0	1095.9	109.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte alpha-PVP **Internal Standard** alpha-PVP-d8

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.7
p1 Cal 3- 25ng	3	✓	25.0	28.1	112.3
p1 Cal 4-50ng	4	✓	50.0	44.9	89.7
p1 Cal 5-100ng	5	✓	100.0	89.8	89.8
p1 Cal 6-250ng	6	✓	250.0	221.2	88.5
p1 Cal 7-500ng	7	✓	500.0	560.4	112.1
p1 Cal 8-1000ng	8	✓	1000.0	1096.1	109.6

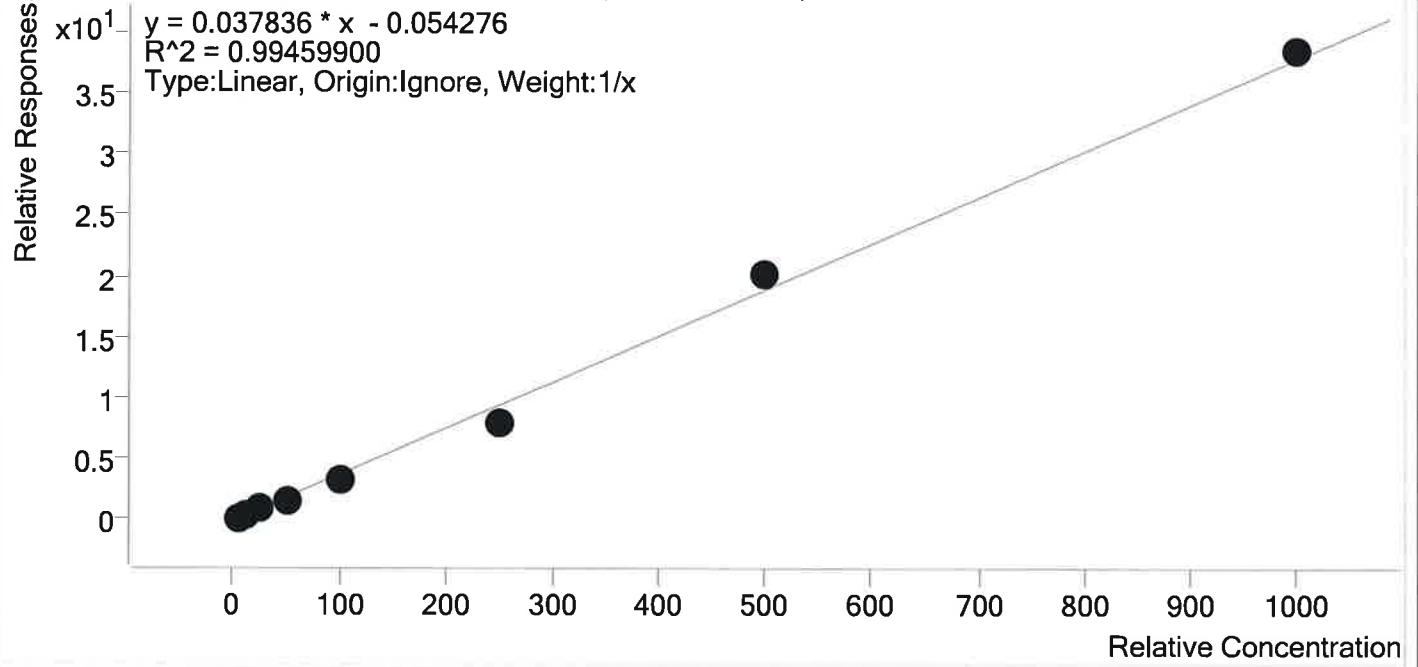
TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

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

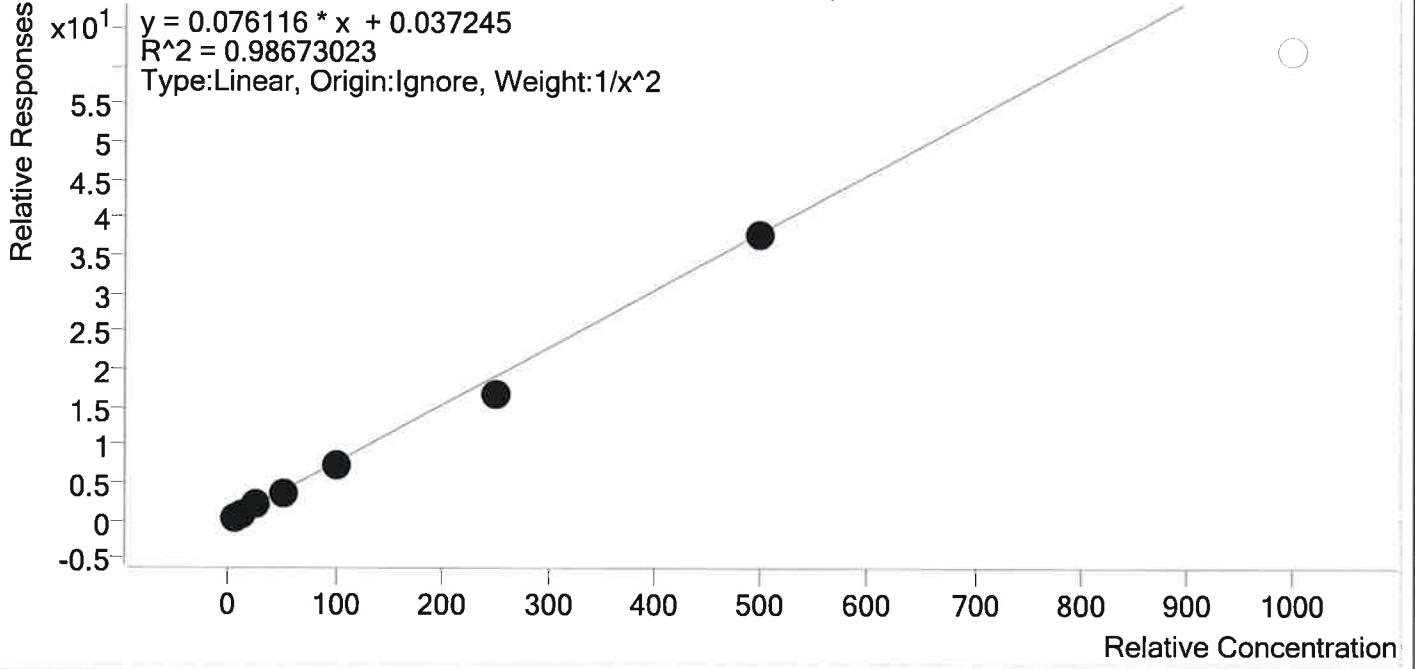


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	117.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3- 25ng	3	✓	25.0	27.8	111.3
p1 Cal 4-50ng	4	✓	50.0	43.9	87.8
p1 Cal 5-100ng	5	✓	100.0	87.9	87.9
p1 Cal 6-250ng	6	✓	250.0	215.8	86.3
p1 Cal 7-500ng	7	✓	500.0	531.3	106.3
p1 Cal 8-1000ng	8	✓	1000.0	1017.3	101.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3- 25ng	3	✓	25.0	30.0	119.8
p1 Cal 4-50ng	4	✓	50.0	49.2	98.4
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	220.3	88.1
p1 Cal 7-500ng	7	✓	500.0	497.5	99.5
p1 Cal 8-1000ng	8	×	1000.0	815.6	81.6

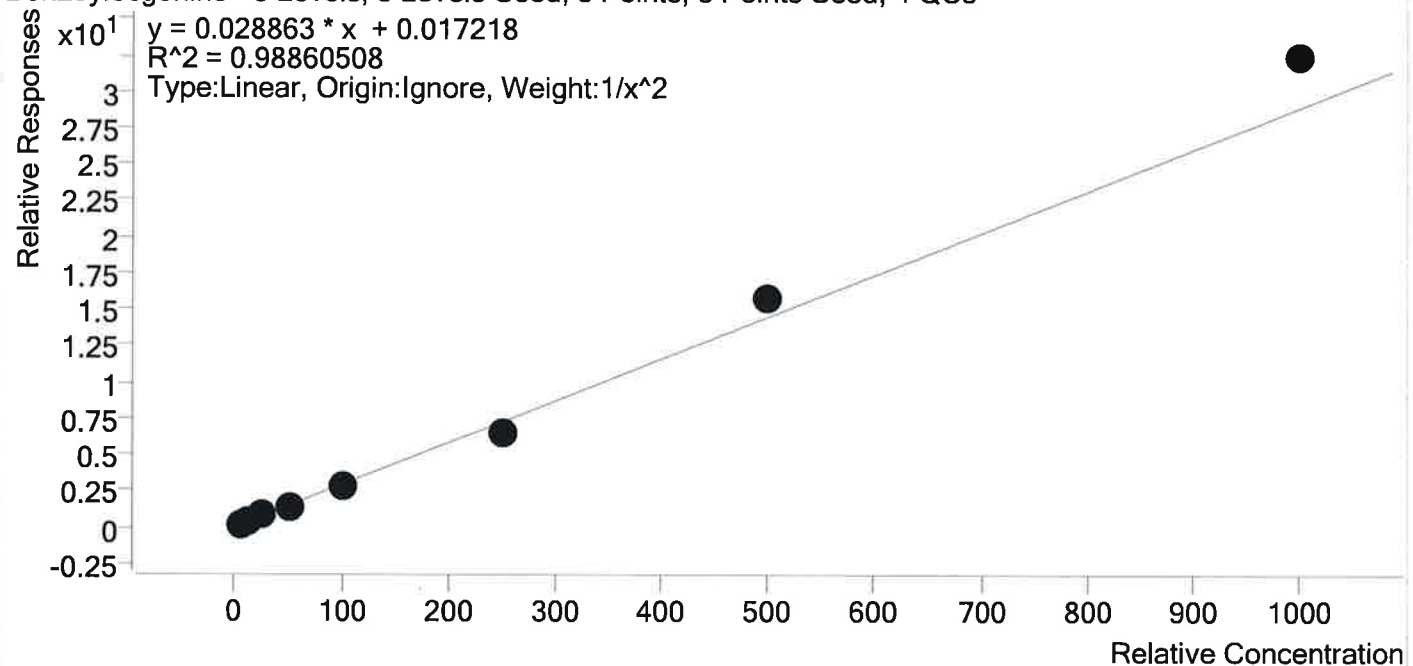
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

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



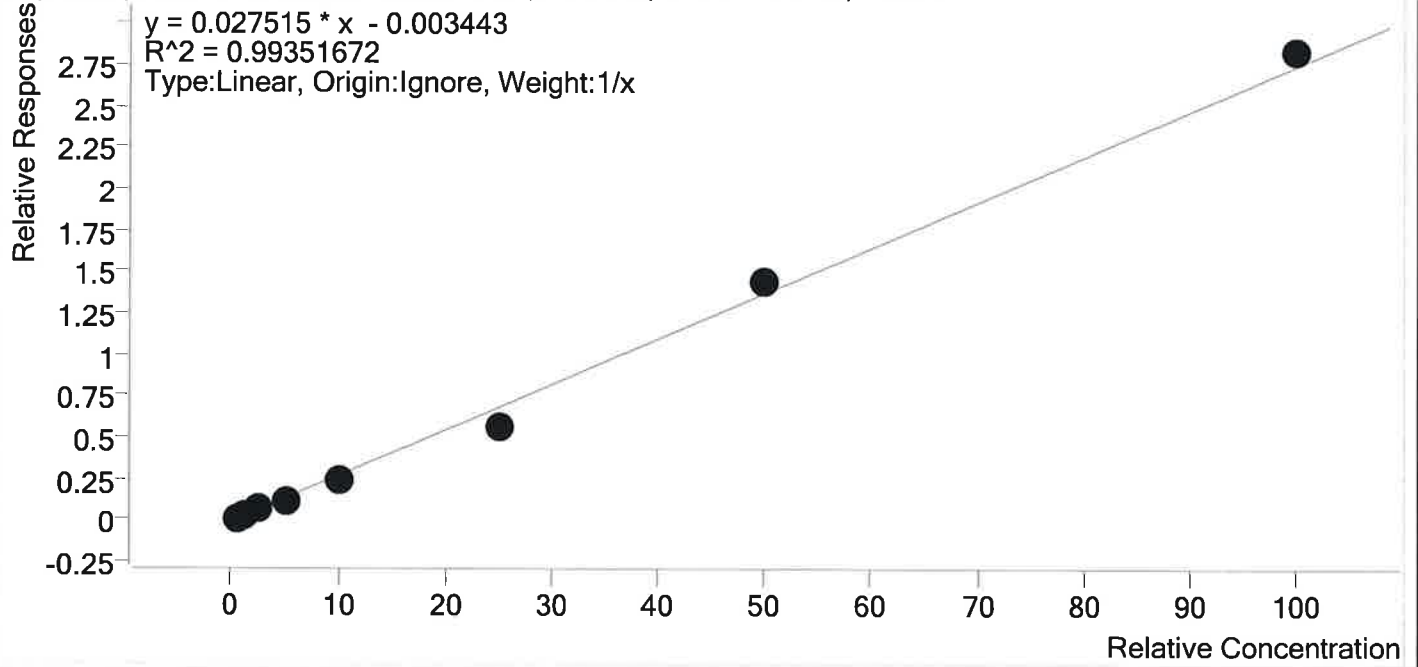
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.2
p1 Cal 2- 10ng	2	✓	10.0	9.1	91.0
p1 Cal 3- 25ng	3	✓	25.0	26.8	107.4
p1 Cal 4-50ng	4	✓	50.0	46.1	92.2
p1 Cal 5-100ng	5	✓	100.0	94.4	94.4
p1 Cal 6-250ng	6	✓	250.0	222.4	88.9
p1 Cal 7-500ng	7	✓	500.0	549.5	109.9
p1 Cal 8-1000ng	8	✓	1000.0	1119.8	112.0

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 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
p1 Cal 1-5ng	1	✓	0.5	0.6	123.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.9
p1 Cal 3- 25ng	3	✓	2.5	2.8	110.3
p1 Cal 4-50ng	4	✓	5.0	4.4	87.4
p1 Cal 5-100ng	5	✓	10.0	8.8	87.6
p1 Cal 6-250ng	6	✓	25.0	21.0	83.8
p1 Cal 7-500ng	7	✓	50.0	52.4	104.8
p1 Cal 8-1000ng	8	✓	100.0	103.1	103.1

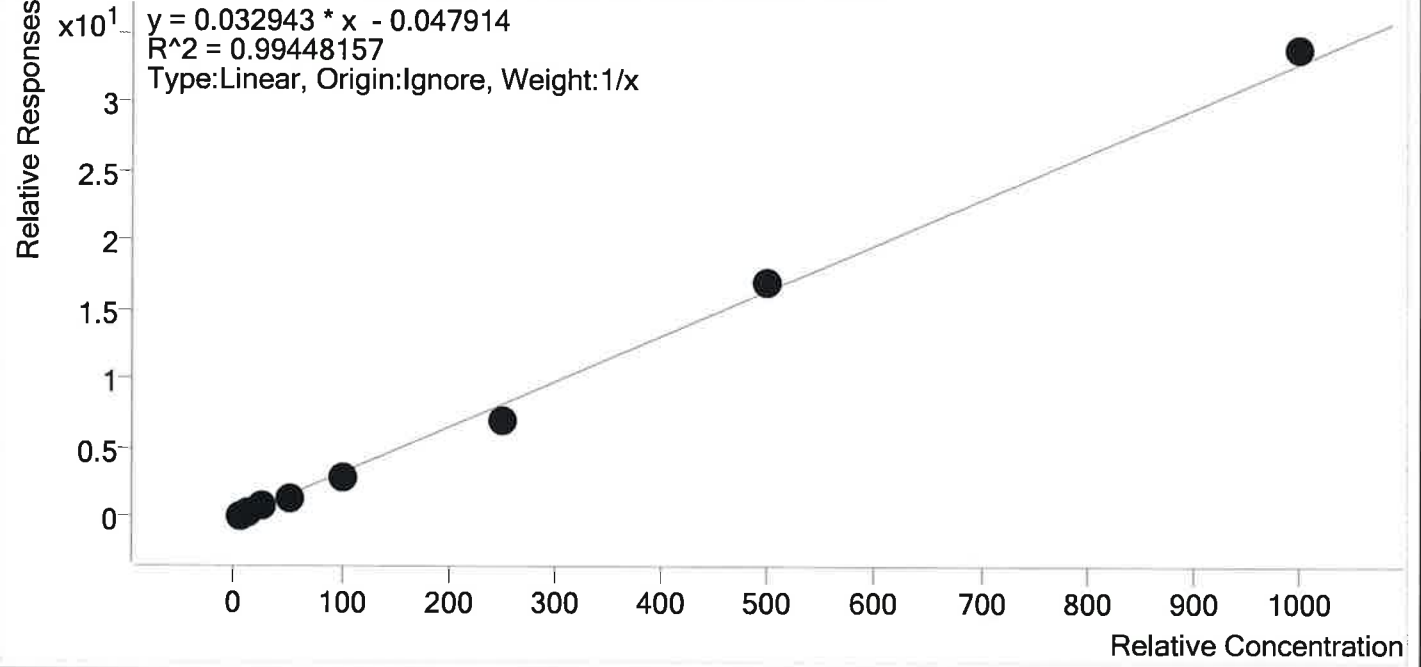
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Bupropion **Internal Standard** Bupropion-D9

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



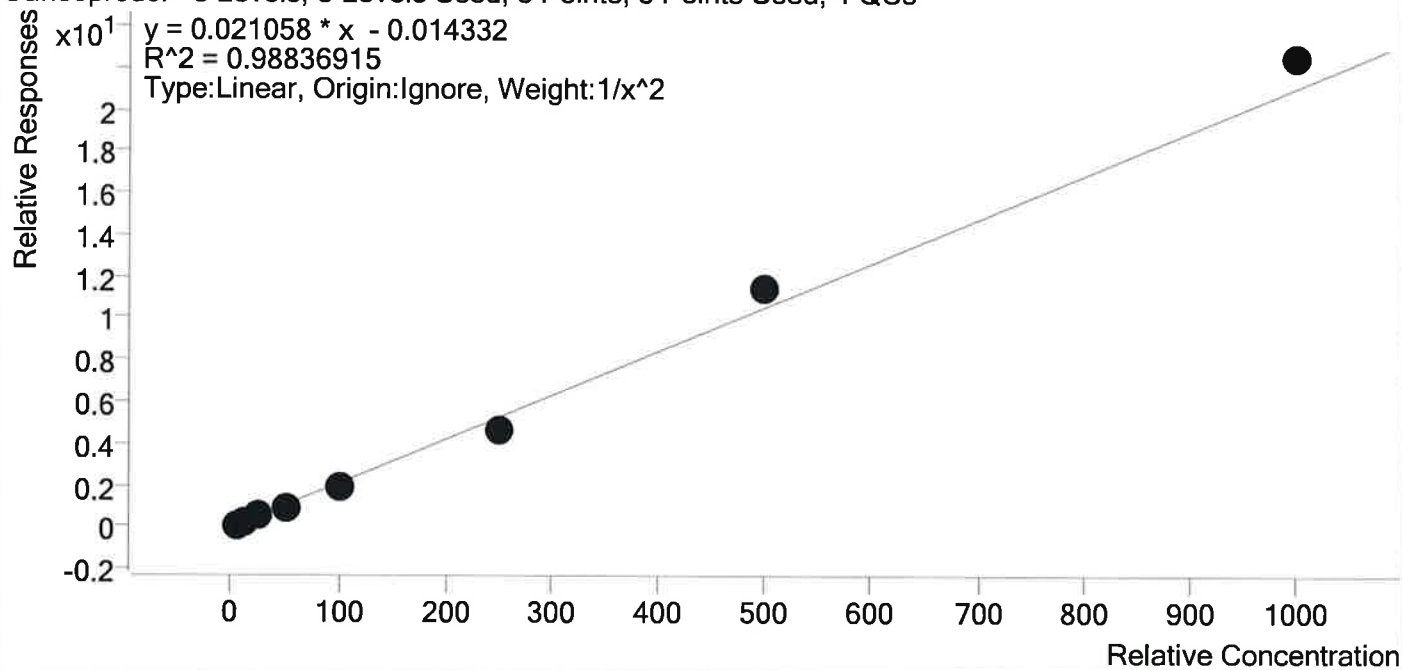
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	115.7
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3- 25ng	3	✓	25.0	28.1	112.6
p1 Cal 4-50ng	4	✓	50.0	44.3	88.6
p1 Cal 5-100ng	5	✓	100.0	88.0	88.0
p1 Cal 6-250ng	6	✓	250.0	213.0	85.2
p1 Cal 7-500ng	7	✓	500.0	520.0	104.0
p1 Cal 8-1000ng	8	✓	1000.0	1030.5	103.0

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

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



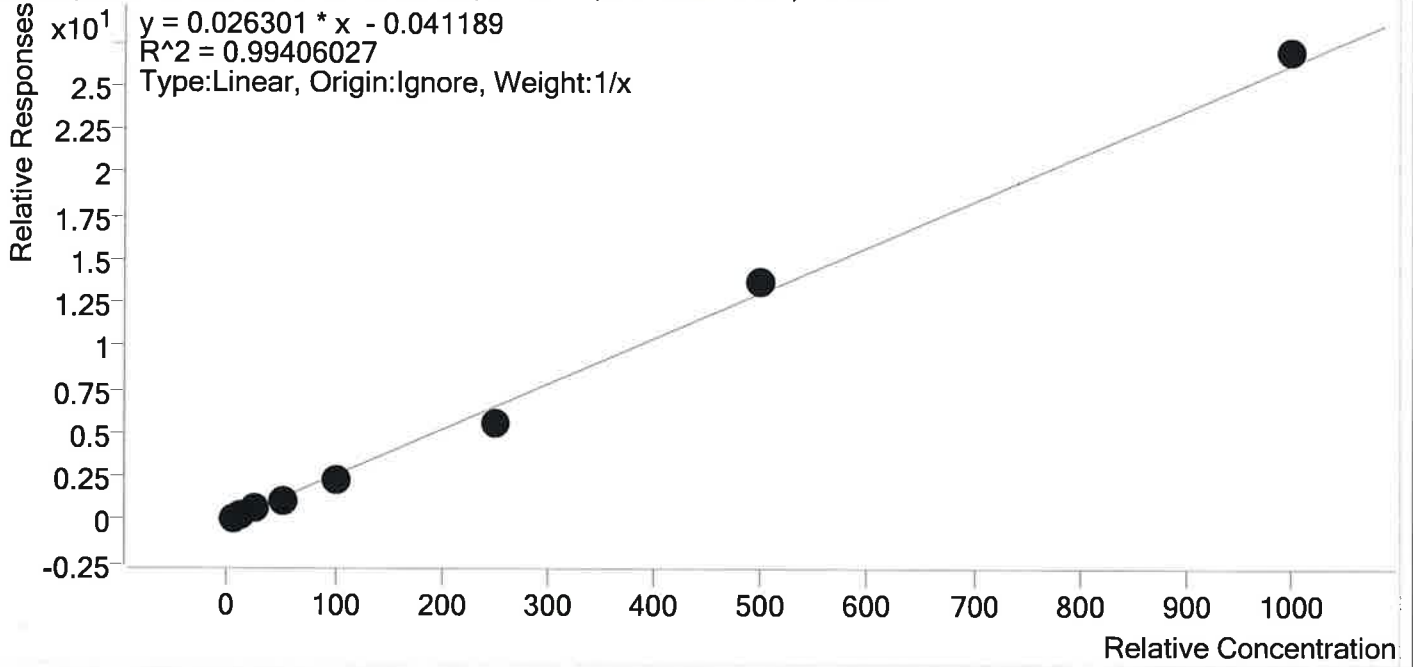
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3- 25ng	3	✓	25.0	28.9	115.5
p1 Cal 4-50ng	4	✓	50.0	45.4	90.8
p1 Cal 5-100ng	5	✓	100.0	92.6	92.6
p1 Cal 6-250ng	6	✓	250.0	223.0	89.2
p1 Cal 7-500ng	7	✓	500.0	542.0	108.4
p1 Cal 8-1000ng	8	✓	1000.0	1066.2	106.6

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Citalopram **Internal Standard** Citalopram-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	115.8
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3- 25ng	3	✓	25.0	28.1	112.5
p1 Cal 4-50ng	4	✓	50.0	43.4	86.8
p1 Cal 5-100ng	5	✓	100.0	88.9	88.9
p1 Cal 6-250ng	6	✓	250.0	211.3	84.5
p1 Cal 7-500ng	7	✓	500.0	524.1	104.8
p1 Cal 8-1000ng	8	✓	1000.0	1028.1	102.8

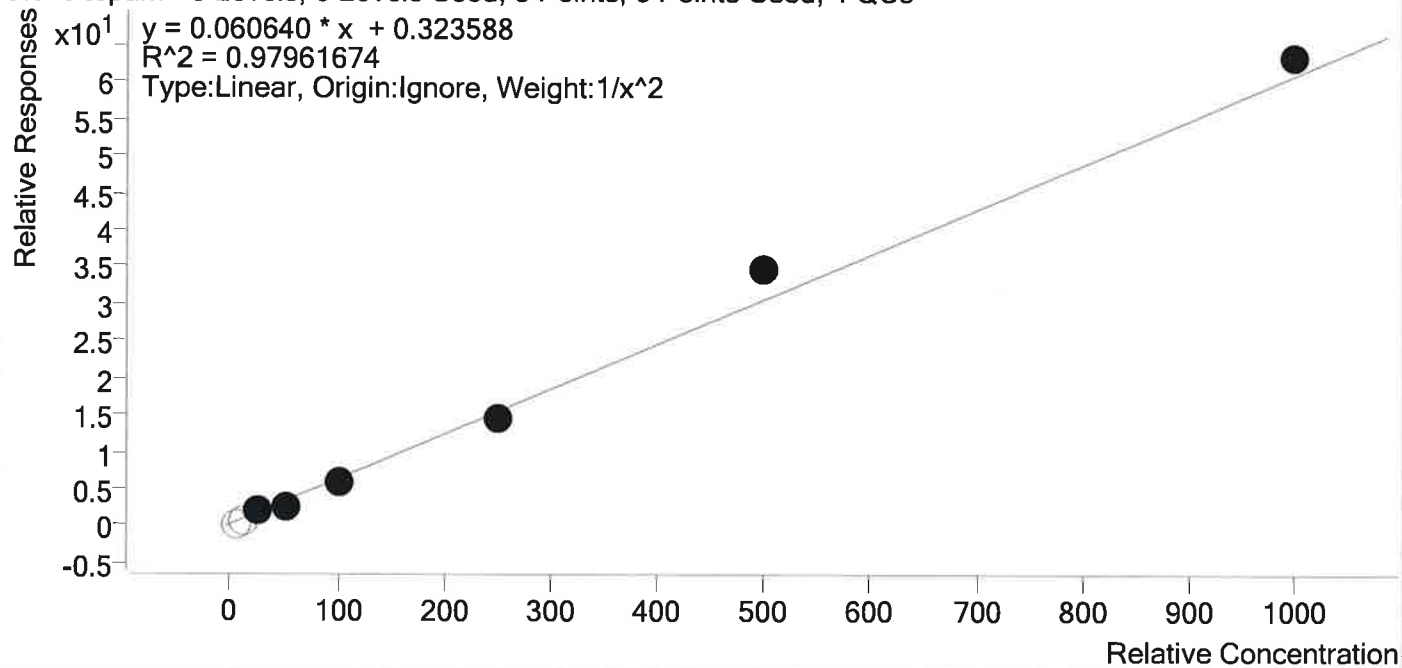
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	0.0	0.0
p1 Cal 2- 10ng	2	×	10.0	3.1	31.2
p1 Cal 3- 25ng	3	✓	25.0	27.5	109.9
p1 Cal 4-50ng	4	✓	50.0	41.0	81.9
p1 Cal 5-100ng	5	✓	100.0	95.6	95.6
p1 Cal 6-250ng	6	✓	250.0	237.8	95.1
p1 Cal 7-500ng	7	✓	500.0	567.6	113.5
p1 Cal 8-1000ng	8	✓	1000.0	1040.1	104.0

* Reported qualitatively only. - TS

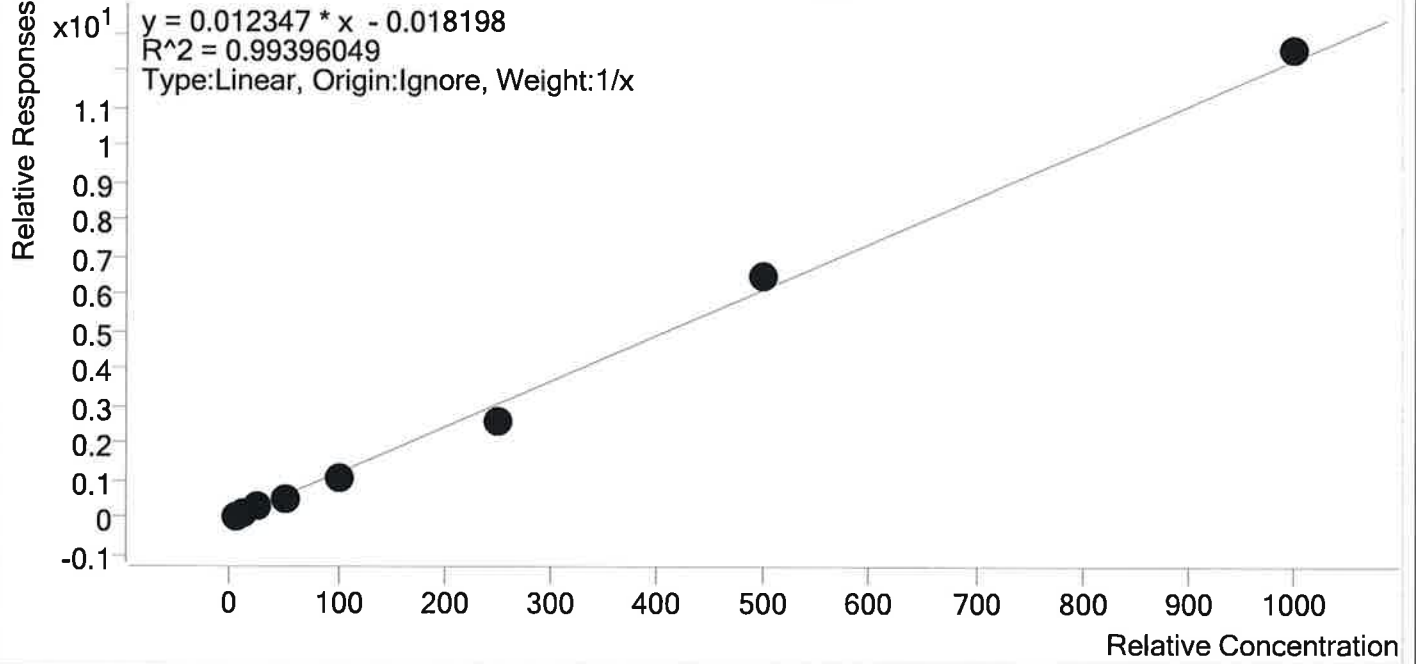
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Cocaine **Internal Standard** Cocaine-d3

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



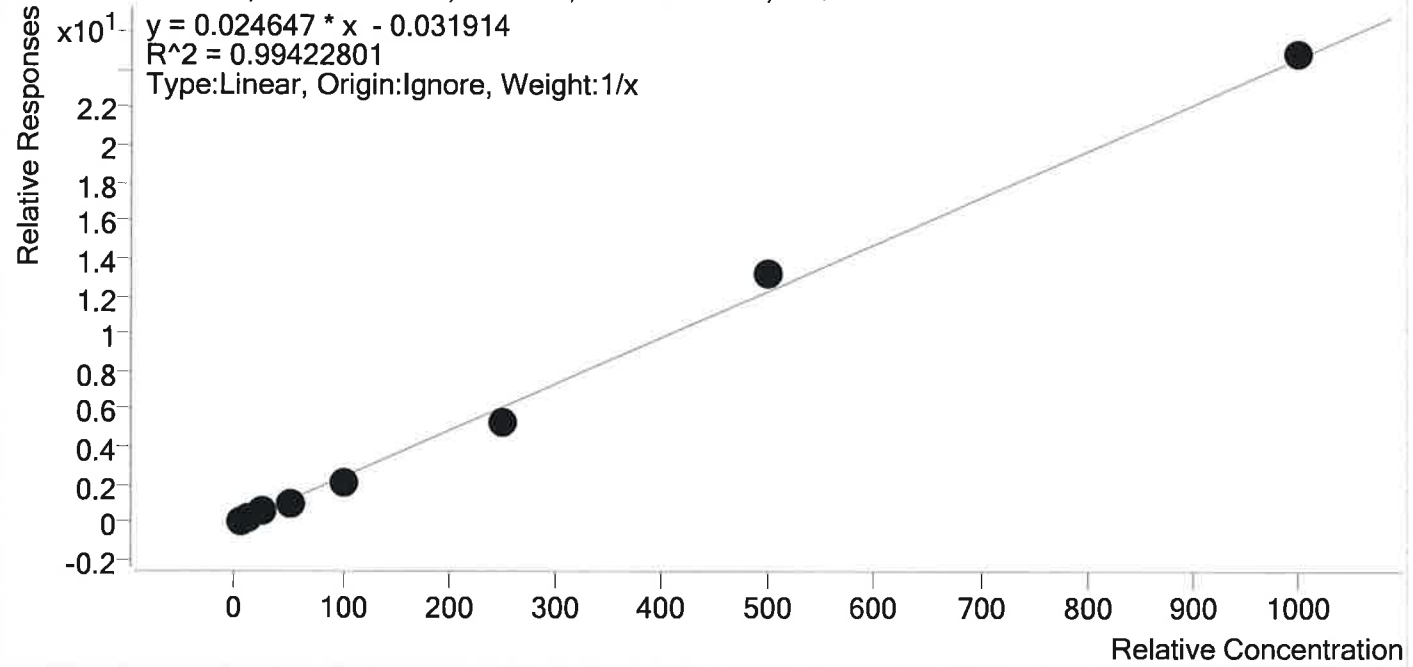
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.8	116.8
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
p1 Cal 3- 25ng	3	✓	25.0	27.8	111.2
p1 Cal 4-50ng	4	✓	50.0	43.5	87.0
p1 Cal 5-100ng	5	✓	100.0	87.5	87.5
p1 Cal 6-250ng	6	✓	250.0	212.6	85.0
p1 Cal 7-500ng	7	✓	500.0	530.1	106.0
p1 Cal 8-1000ng	8	✓	1000.0	1022.2	102.2

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Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Codeine **Internal Standard** Codeine-D6

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



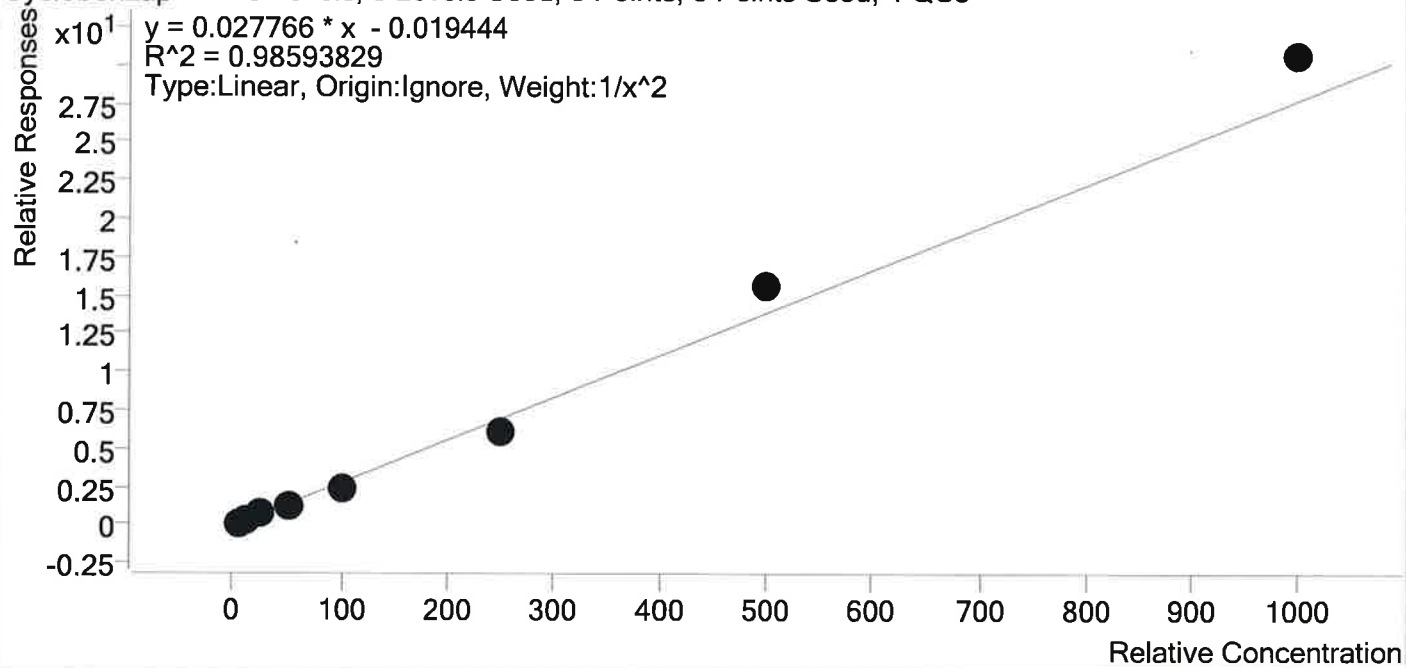
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.6	112.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3- 25ng	3	✓	25.0	28.2	112.8
p1 Cal 4-50ng	4	✓	50.0	44.5	88.9
p1 Cal 5-100ng	5	✓	100.0	88.2	88.2
p1 Cal 6-250ng	6	✓	250.0	215.7	86.3
p1 Cal 7-500ng	7	✓	500.0	538.7	107.7
p1 Cal 8-1000ng	8	✓	1000.0	1008.9	100.9



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



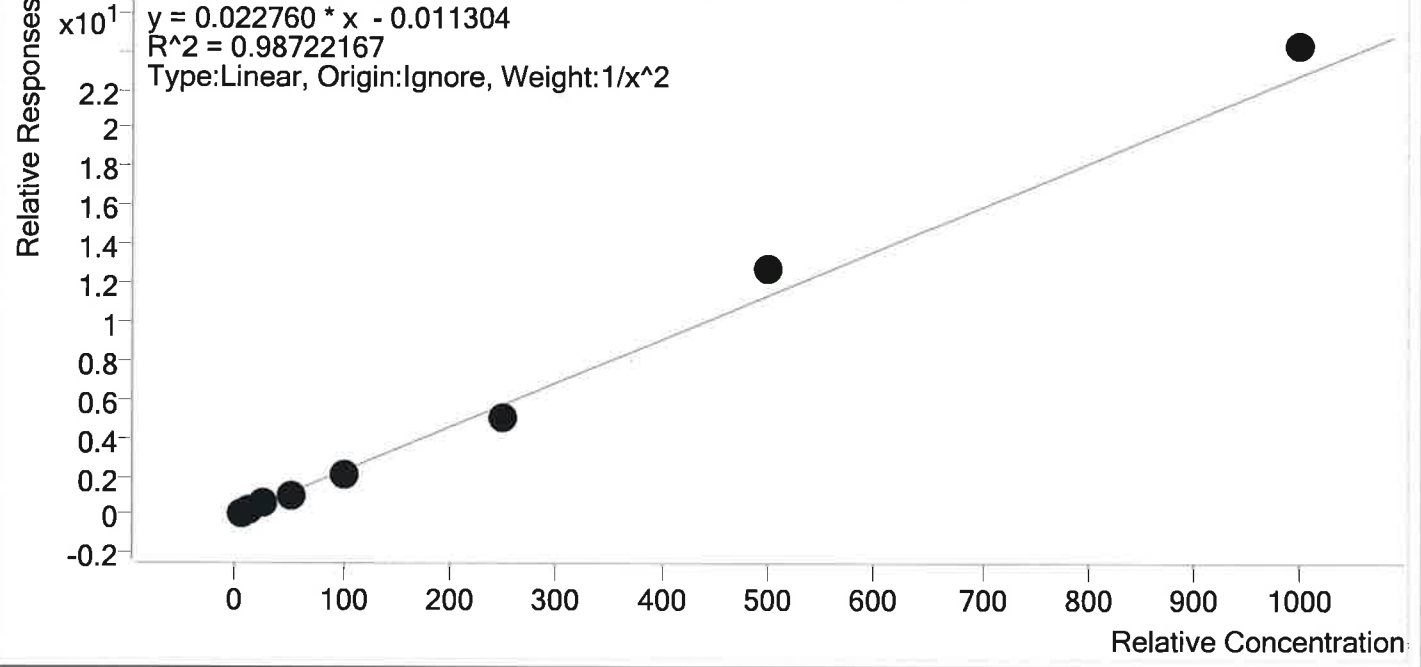
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.1
p1 Cal 3- 25ng	3	✓	25.0	27.8	111.4
p1 Cal 4-50ng	4	✓	50.0	44.6	89.2
p1 Cal 5-100ng	5	✓	100.0	89.6	89.6
p1 Cal 6-250ng	6	✓	250.0	223.3	89.3
p1 Cal 7-500ng	7	✓	500.0	563.5	112.7
p1 Cal 8-1000ng	8	✓	1000.0	1103.5	110.4



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3

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

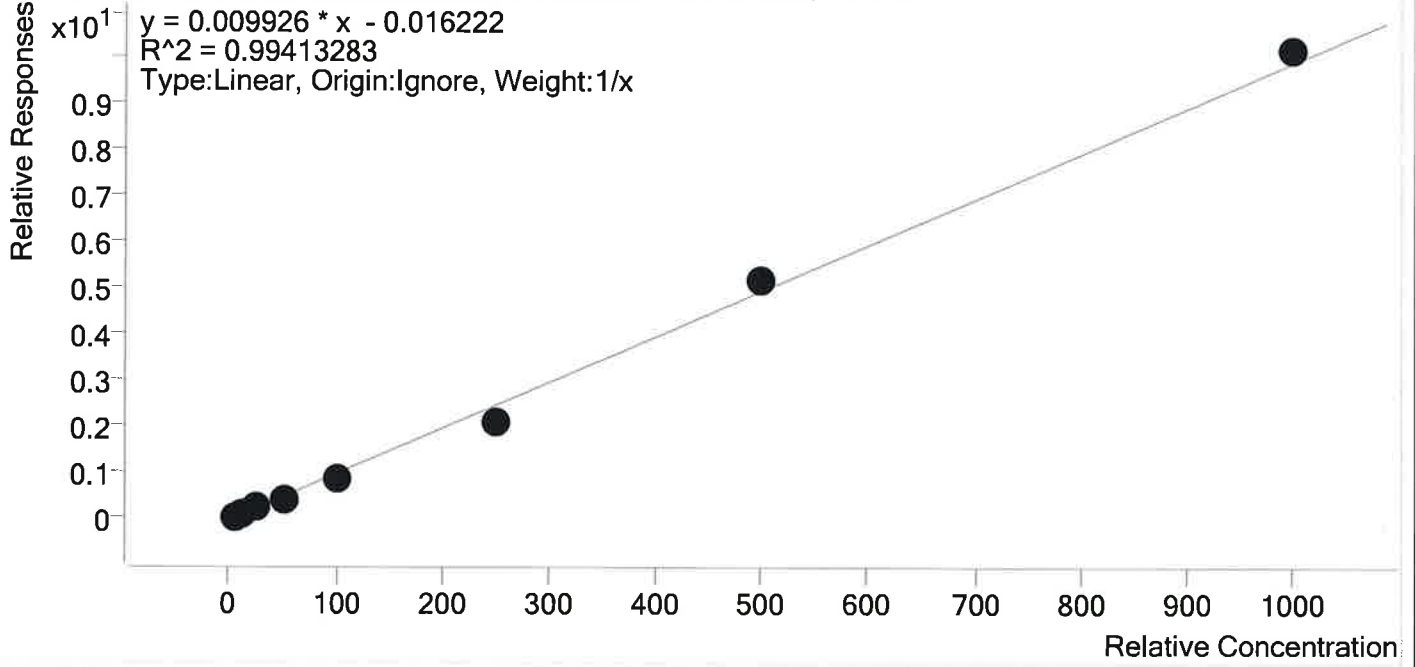


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.5
p1 Cal 3- 25ng	3	✓	25.0	28.4	113.5
p1 Cal 4-50ng	4	✓	50.0	44.9	89.7
p1 Cal 5-100ng	5	✓	100.0	91.9	91.9
p1 Cal 6-250ng	6	✓	250.0	221.4	88.5
p1 Cal 7-500ng	7	✓	500.0	560.1	112.0
p1 Cal 8-1000ng	8	✓	1000.0	1067.3	106.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3

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



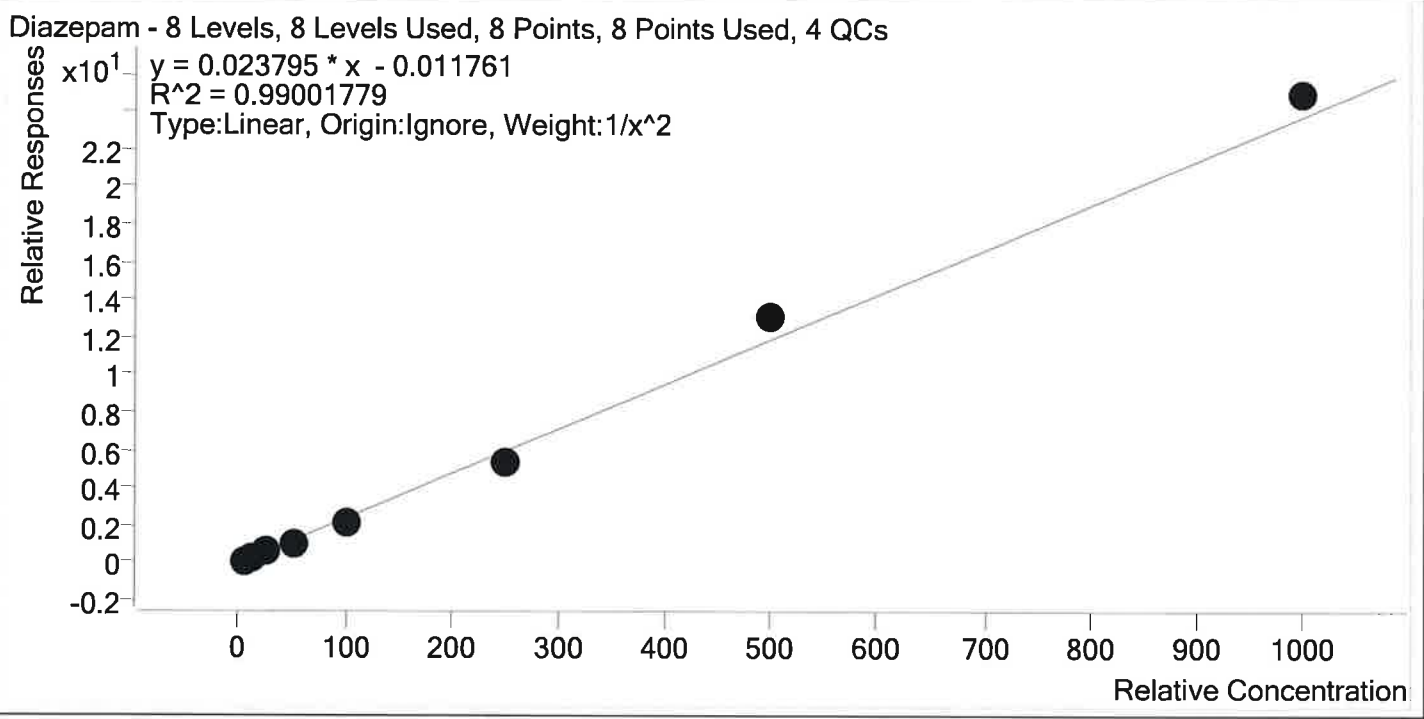
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3- 25ng	3	✓	25.0	27.5	110.0
p1 Cal 4-50ng	4	✓	50.0	44.3	88.7
p1 Cal 5-100ng	5	✓	100.0	86.9	86.9
p1 Cal 6-250ng	6	✓	250.0	212.4	85.0
p1 Cal 7-500ng	7	✓	500.0	525.4	105.1
p1 Cal 8-1000ng	8	✓	1000.0	1027.2	102.7

TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Diazepam **Internal Standard** Diazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3- 25ng	3	✓	25.0	28.1	112.5
p1 Cal 4-50ng	4	✓	50.0	46.3	92.5
p1 Cal 5-100ng	5	✓	100.0	91.9	91.9
p1 Cal 6-250ng	6	✓	250.0	222.4	89.0
p1 Cal 7-500ng	7	✓	500.0	551.4	110.3
p1 Cal 8-1000ng	8	✓	1000.0	1049.6	105.0

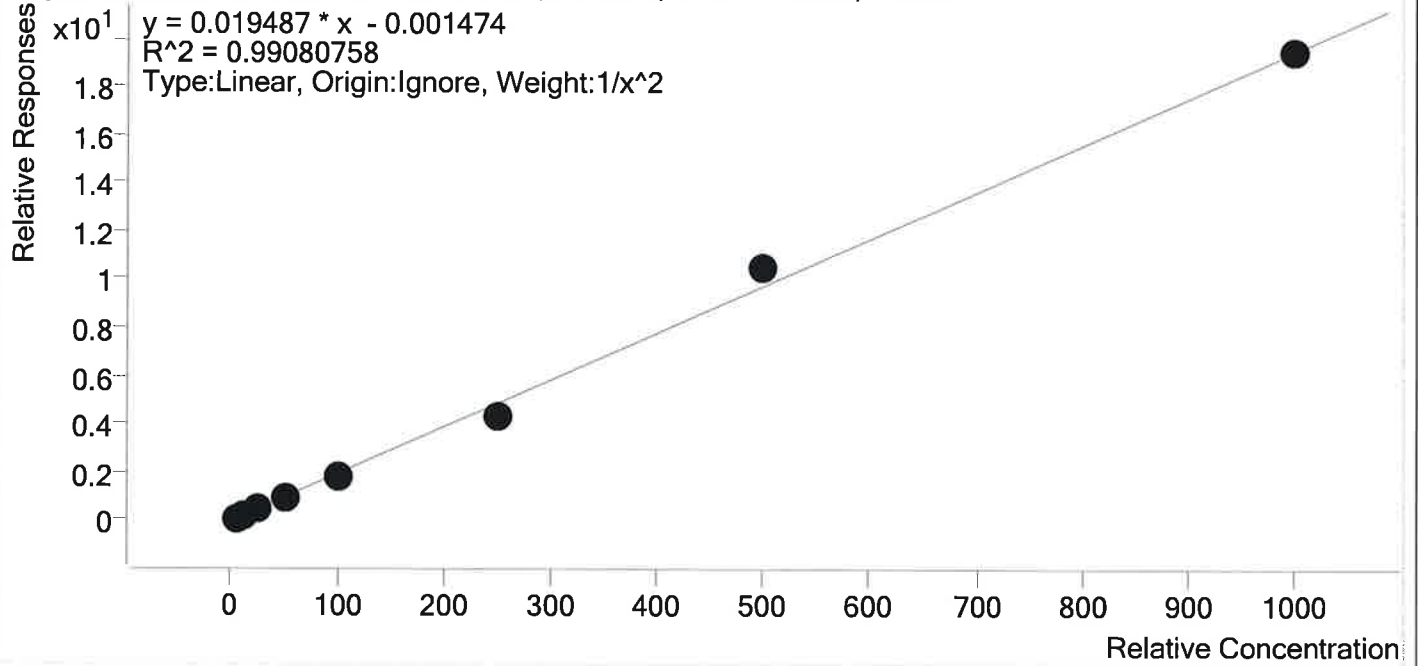
15

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

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



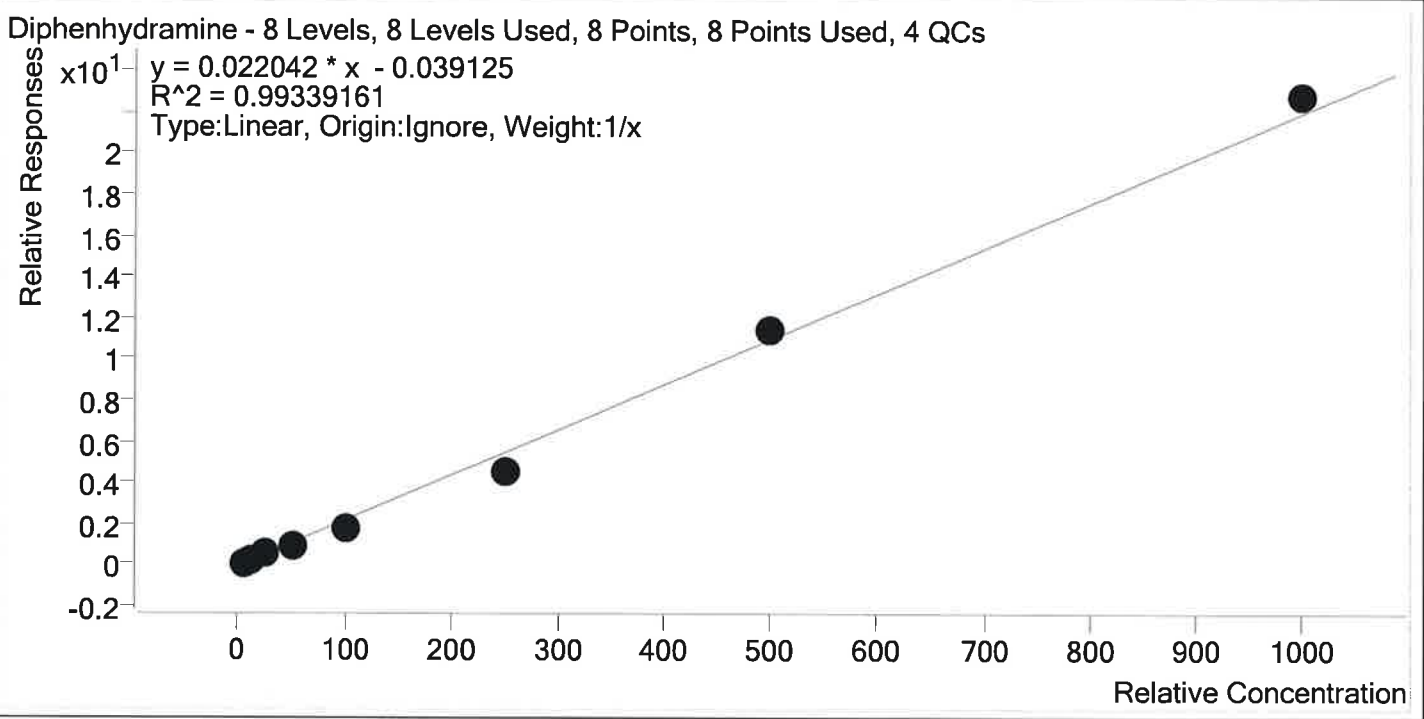
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3- 25ng	3	✓	25.0	29.1	116.3
p1 Cal 4-50ng	4	✓	50.0	47.1	94.1
p1 Cal 5-100ng	5	✓	100.0	94.8	94.8
p1 Cal 6-250ng	6	✓	250.0	224.3	89.7
p1 Cal 7-500ng	7	✓	500.0	536.0	107.2
p1 Cal 8-1000ng	8	✓	1000.0	998.9	99.9

TS

Compound Calibration Report



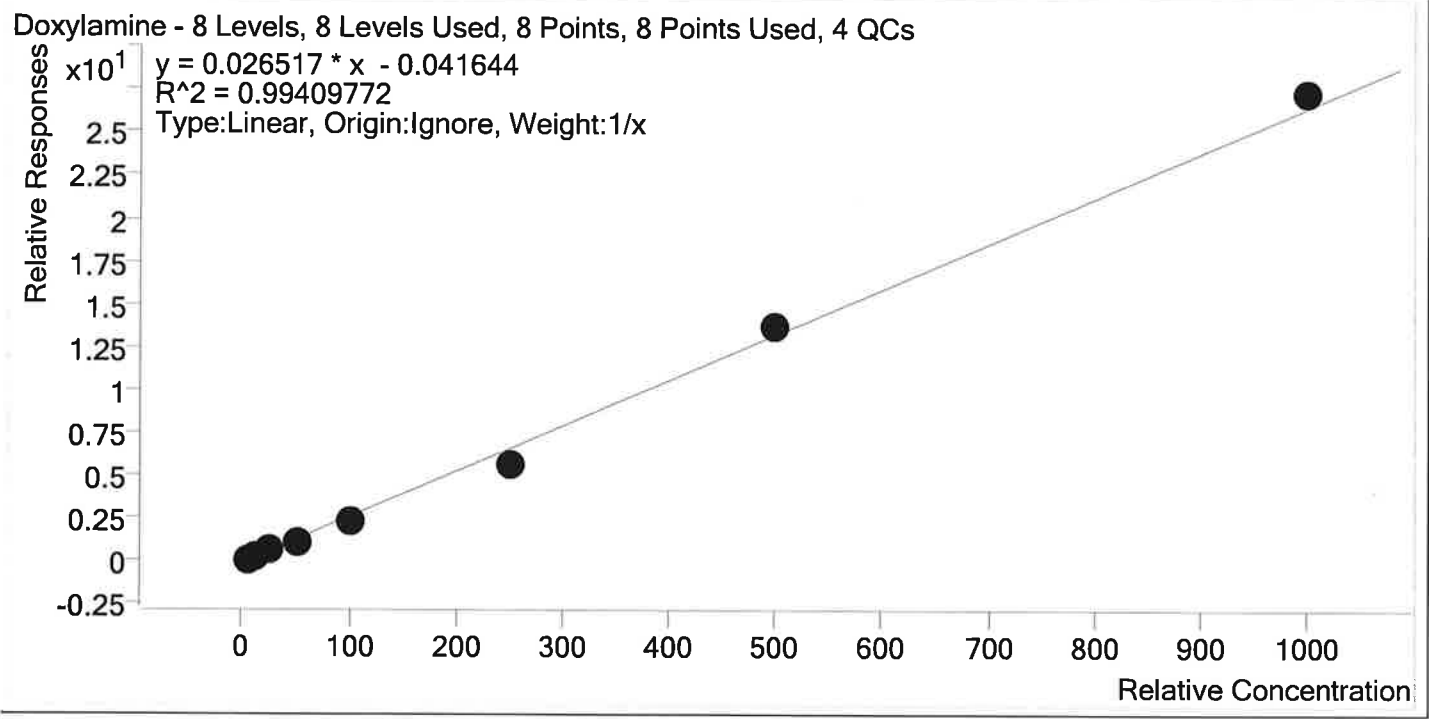
Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.0	119.2
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.9
p1 Cal 3- 25ng	3	✓	25.0	27.6	110.5
p1 Cal 4-50ng	4	✓	50.0	43.7	87.4
p1 Cal 5-100ng	5	✓	100.0	86.6	86.6
p1 Cal 6-250ng	6	✓	250.0	209.4	83.8
p1 Cal 7-500ng	7	✓	500.0	519.7	103.9
p1 Cal 8-1000ng	8	✓	1000.0	1036.5	103.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Doxylamine **Internal Standard** Doxylamine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.6
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3- 25ng	3	✓	25.0	27.6	110.4
p1 Cal 4-50ng	4	✓	50.0	44.1	88.1
p1 Cal 5-100ng	5	✓	100.0	87.6	87.6
p1 Cal 6-250ng	6	✓	250.0	211.5	84.6
p1 Cal 7-500ng	7	✓	500.0	521.5	104.3
p1 Cal 8-1000ng	8	✓	1000.0	1031.4	103.1

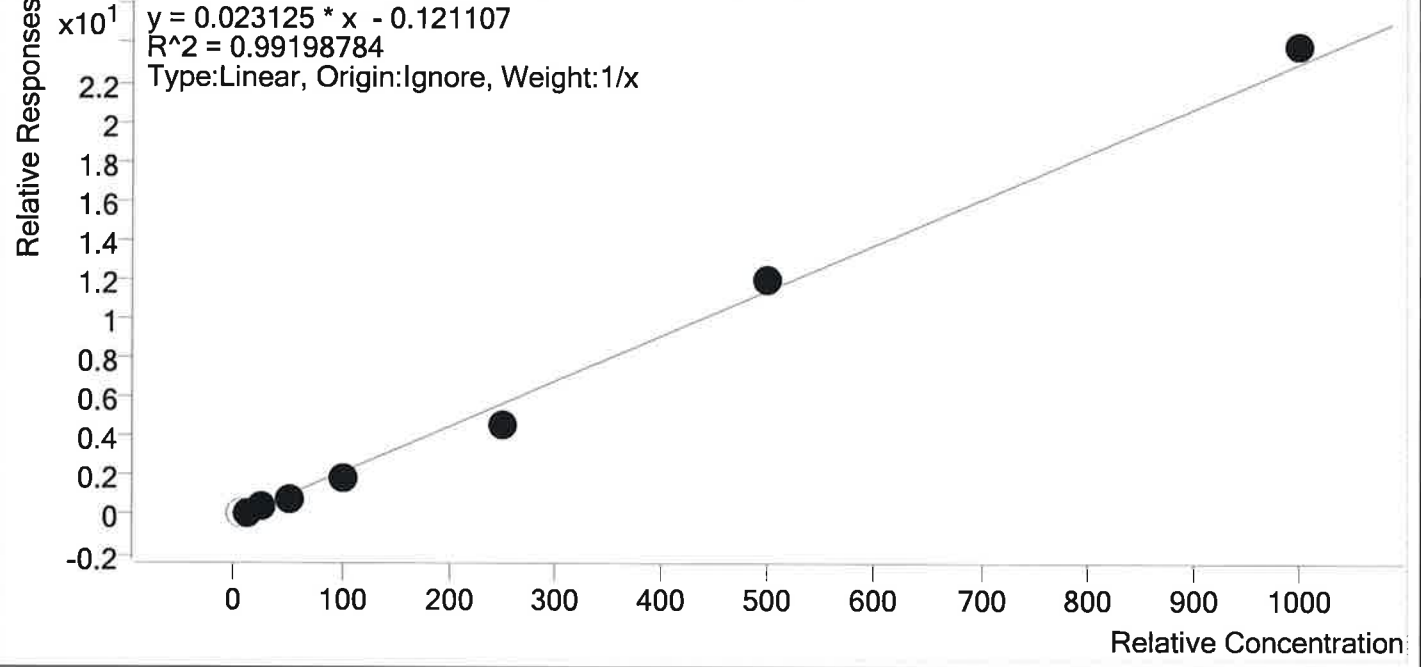
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte EDDP **Internal Standard** EDDP-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	10.3	206.2
p1 Cal 2- 10ng	2	✓	10.0	12.6	126.4
p1 Cal 3- 25ng	3	✓	25.0	27.8	111.2
p1 Cal 4-50ng	4	✓	50.0	42.6	85.2
p1 Cal 5-100ng	5	✓	100.0	86.3	86.3
p1 Cal 6-250ng	6	✓	250.0	207.7	83.1
p1 Cal 7-500ng	7	✓	500.0	520.3	104.1
p1 Cal 8-1000ng	8	✓	1000.0	1037.7	103.8

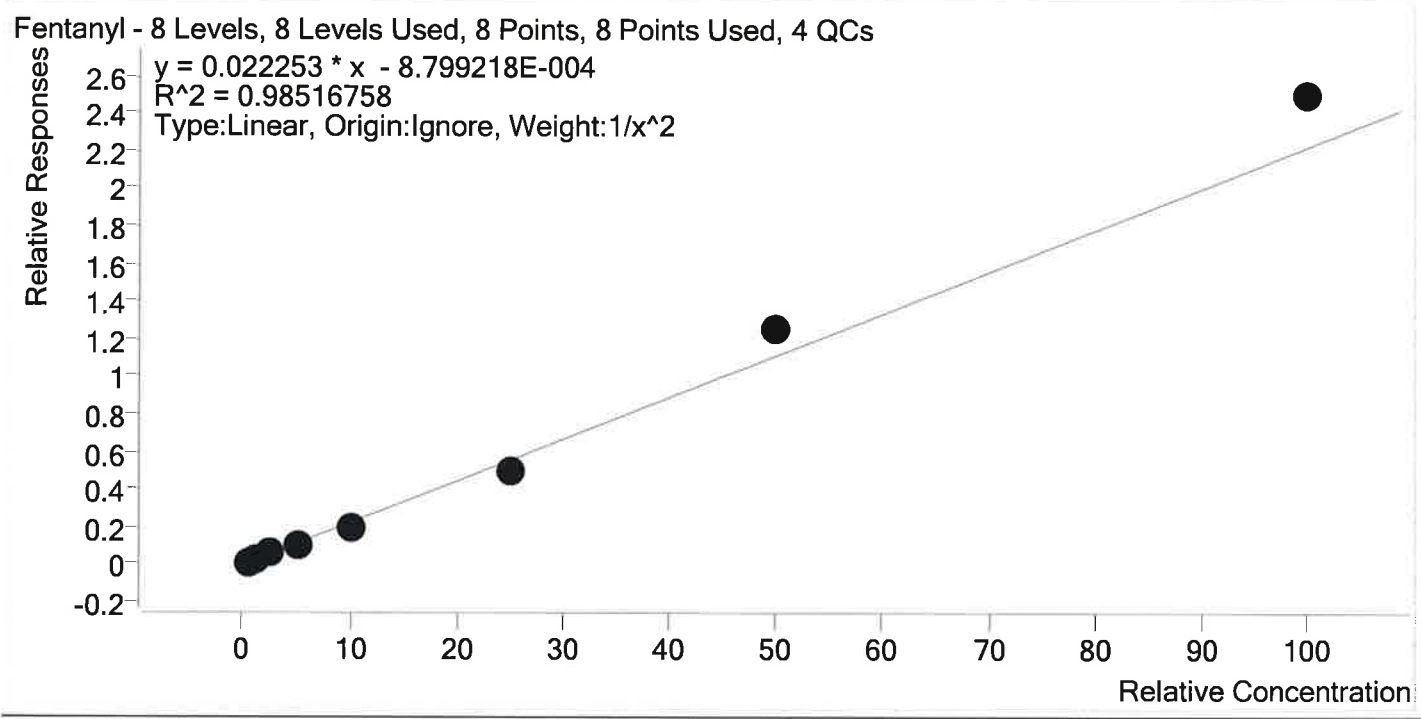
*Compound not evaluated. - TS

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Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Fentanyl **Internal Standard** Fentanyl-D5



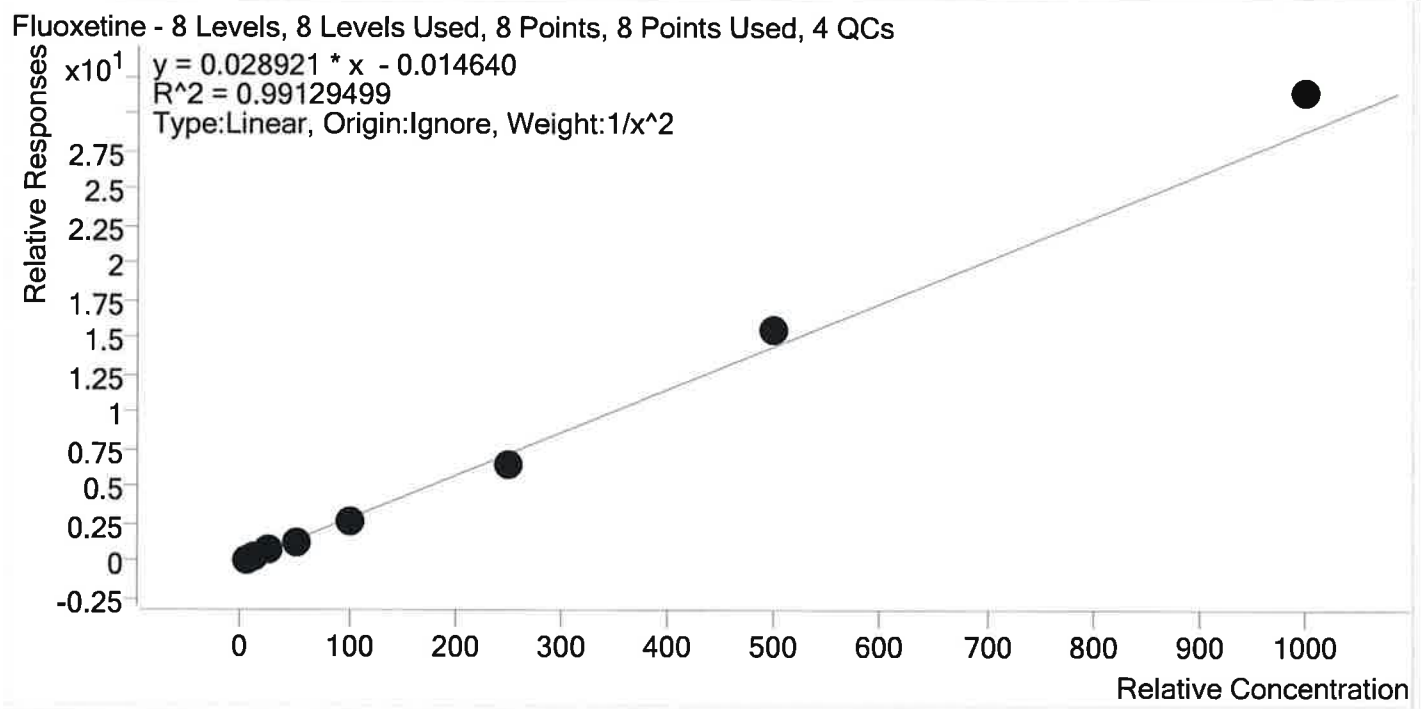
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	98.1
p1 Cal 2- 10ng	2	✓	1.0	1.1	105.2
p1 Cal 3- 25ng	3	✓	2.5	2.6	105.7
p1 Cal 4-50ng	4	✓	5.0	4.3	86.7
p1 Cal 5-100ng	5	✓	10.0	9.0	90.1
p1 Cal 6-250ng	6	✓	25.0	22.2	88.7
p1 Cal 7-500ng	7	✓	50.0	56.7	113.3
p1 Cal 8-1000ng	8	✓	100.0	112.3	112.3

TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6



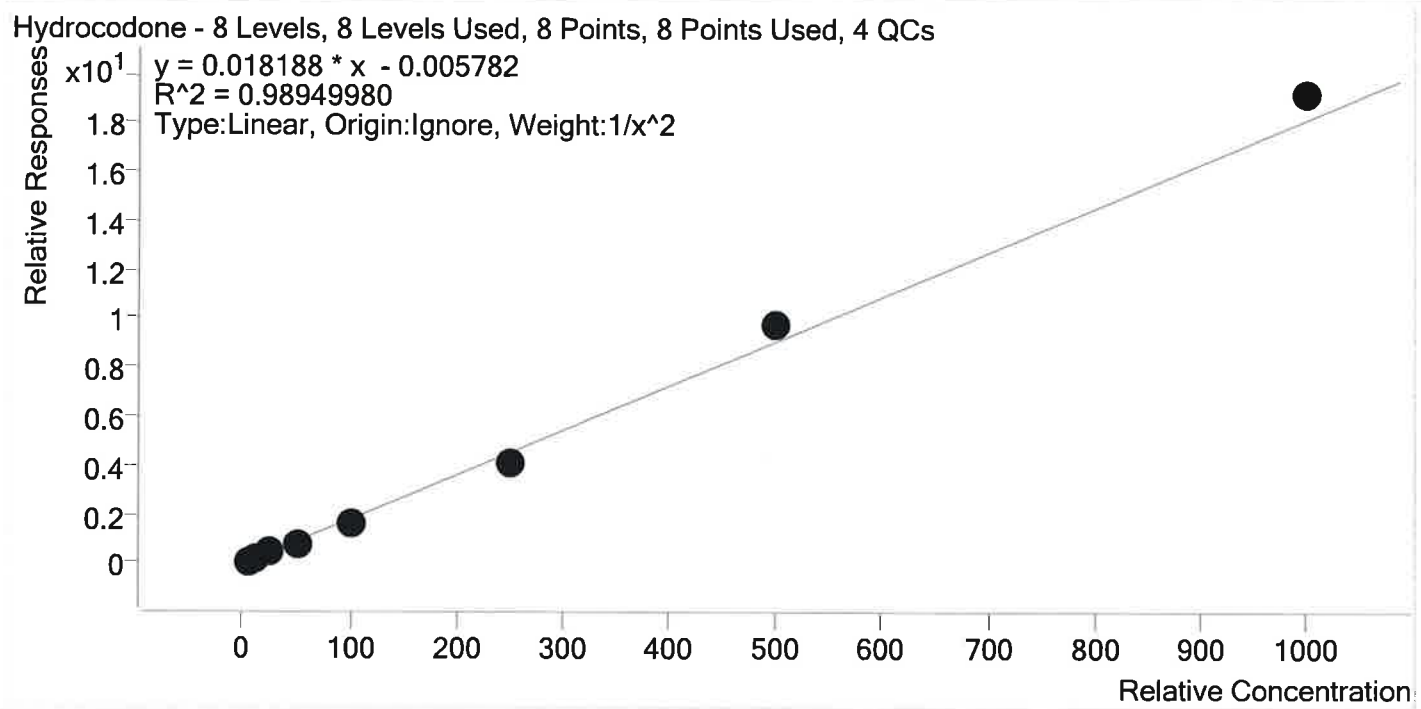
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3- 25ng	3	✓	25.0	27.3	109.3
p1 Cal 4-50ng	4	✓	50.0	45.6	91.3
p1 Cal 5-100ng	5	✓	100.0	92.6	92.6
p1 Cal 6-250ng	6	✓	250.0	225.6	90.2
p1 Cal 7-500ng	7	✓	500.0	542.2	108.4
p1 Cal 8-1000ng	8	✓	1000.0	1088.9	108.9

TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.7
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.0
p1 Cal 3- 25ng	3	✓	25.0	28.8	115.2
p1 Cal 4-50ng	4	✓	50.0	45.6	91.2
p1 Cal 5-100ng	5	✓	100.0	93.7	93.7
p1 Cal 6-250ng	6	✓	250.0	224.1	89.7
p1 Cal 7-500ng	7	✓	500.0	540.0	108.0
p1 Cal 8-1000ng	8	✓	1000.0	1055.2	105.5

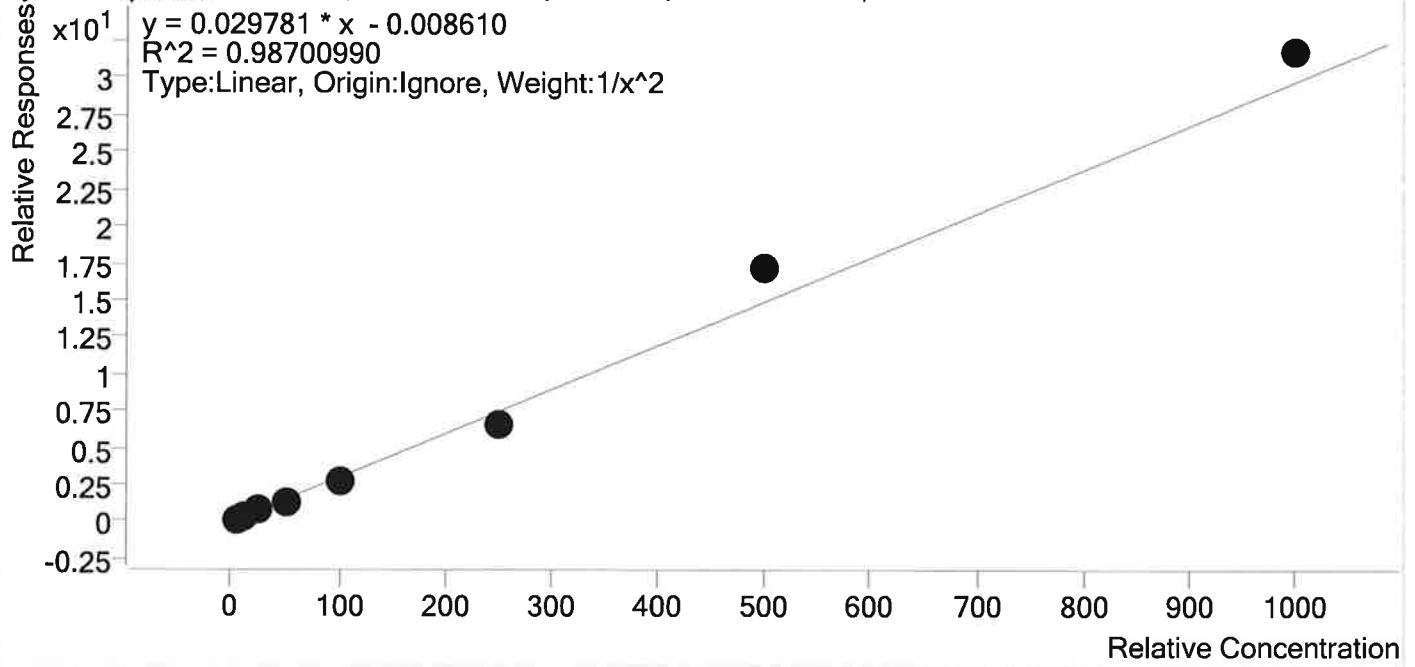
15

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6

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

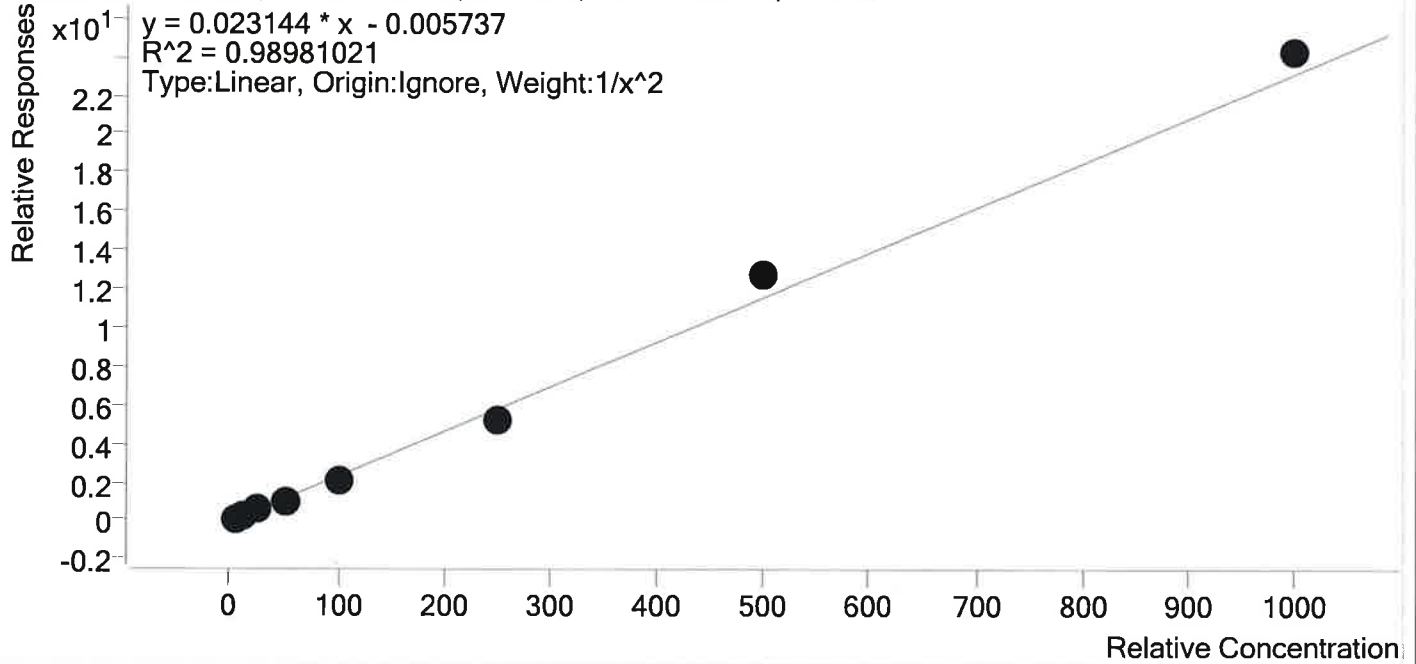


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3- 25ng	3	✓	25.0	27.6	110.5
p1 Cal 4-50ng	4	✓	50.0	44.7	89.5
p1 Cal 5-100ng	5	✓	100.0	90.5	90.5
p1 Cal 6-250ng	6	✓	250.0	222.4	88.9
p1 Cal 7-500ng	7	✓	500.0	573.7	114.7
p1 Cal 8-1000ng	8	✓	1000.0	1066.5	106.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Ketamine **Internal Standard** Ketamine-D4

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



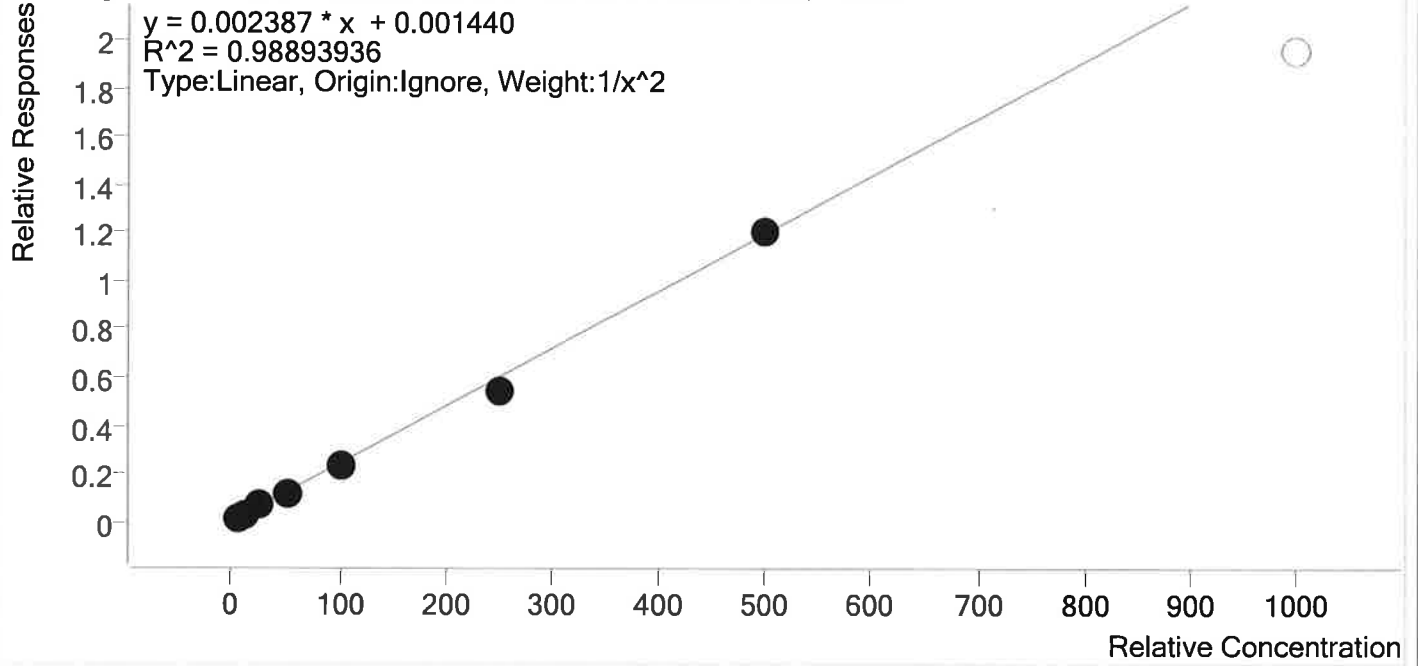
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.5
p1 Cal 3- 25ng	3	✓	25.0	28.5	113.9
p1 Cal 4-50ng	4	✓	50.0	45.6	91.3
p1 Cal 5-100ng	5	✓	100.0	93.0	93.0
p1 Cal 6-250ng	6	✓	250.0	224.1	89.7
p1 Cal 7-500ng	7	✓	500.0	547.6	109.5
p1 Cal 8-1000ng	8	✓	1000.0	1049.0	104.9

TS 

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wklist3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4

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



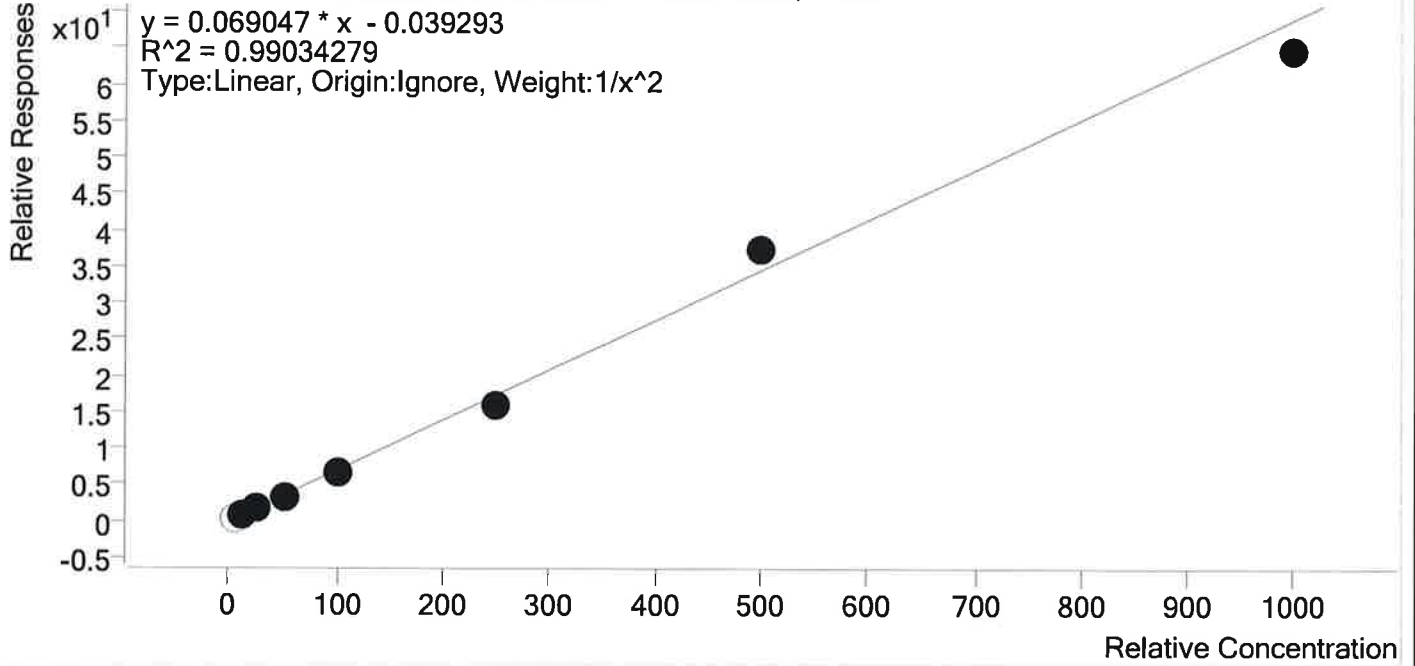
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.2
p1 Cal 3- 25ng	3	✓	25.0	29.6	118.5
p1 Cal 4-50ng	4	✓	50.0	48.7	97.3
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	224.3	89.7
p1 Cal 7-500ng	7	✓	500.0	501.0	100.2
p1 Cal 8-1000ng	8	×	1000.0	817.4	81.7

TS

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4

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

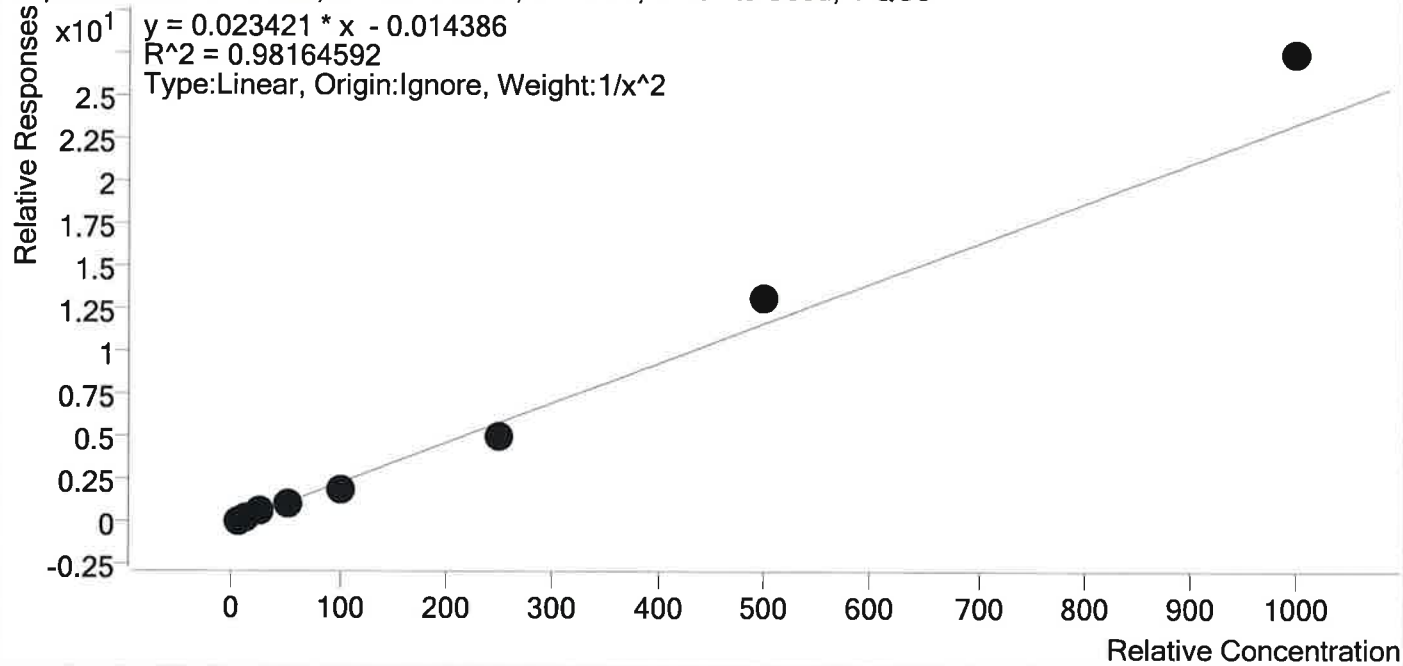


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	×	5.0	5.6	112.2
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.0
p1 Cal 3- 25ng	3	✓	25.0	28.8	115.3
p1 Cal 4-50ng	4	✓	50.0	47.9	95.7
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	233.7	93.5
p1 Cal 7-500ng	7	✓	500.0	541.0	108.2
p1 Cal 8-1000ng	8	✓	1000.0	936.0	93.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Meprobamate **Internal Standard** Meprobamate-D7

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

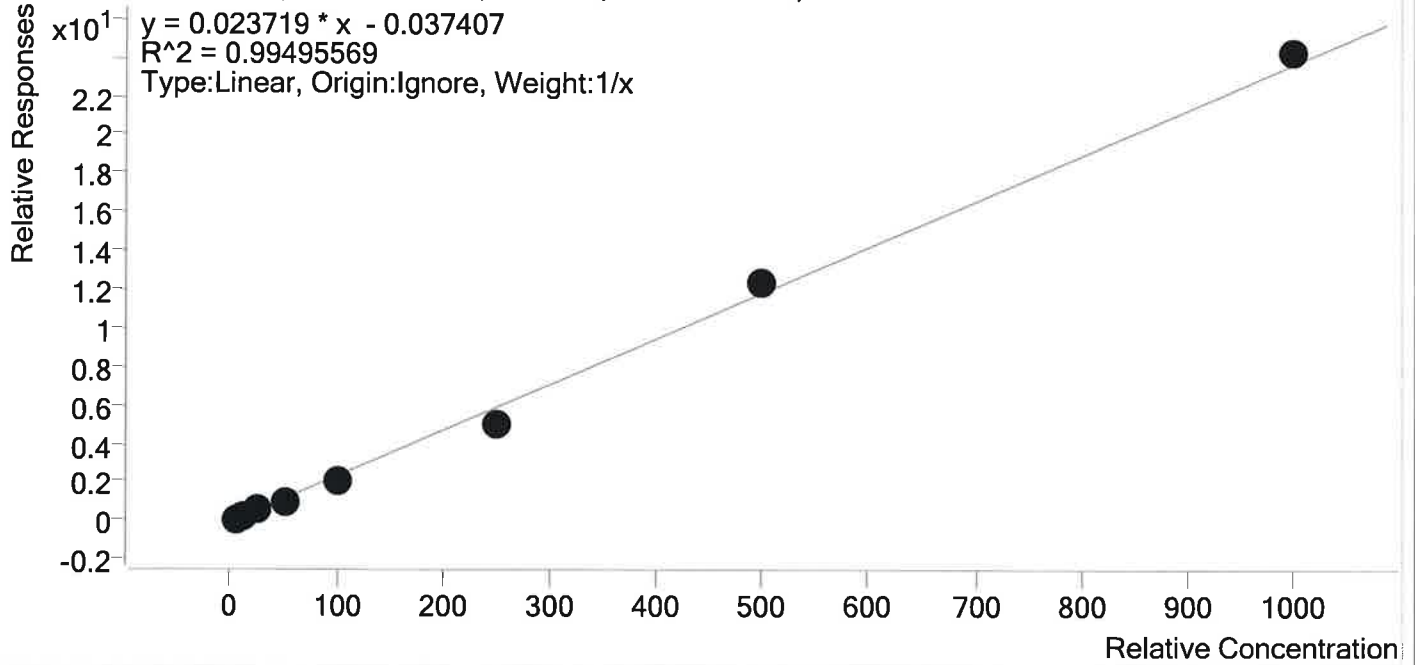


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3- 25ng	3	✓	25.0	26.9	107.5
p1 Cal 4-50ng	4	✓	50.0	44.1	88.1
p1 Cal 5-100ng	5	✓	100.0	87.0	87.0
p1 Cal 6-250ng	6	✓	250.0	219.3	87.7
p1 Cal 7-500ng	7	✓	500.0	563.8	112.8
p1 Cal 8-1000ng	8	✓	1000.0	1173.7	117.4

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Methadone **Internal Standard** Methadone-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	117.1
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.4
p1 Cal 3- 25ng	3	✓	25.0	27.8	111.3
p1 Cal 4-50ng	4	✓	50.0	43.2	86.4
p1 Cal 5-100ng	5	✓	100.0	88.0	88.0
p1 Cal 6-250ng	6	✓	250.0	216.6	86.7
p1 Cal 7-500ng	7	✓	500.0	522.7	104.5
p1 Cal 8-1000ng	8	✓	1000.0	1025.4	102.5

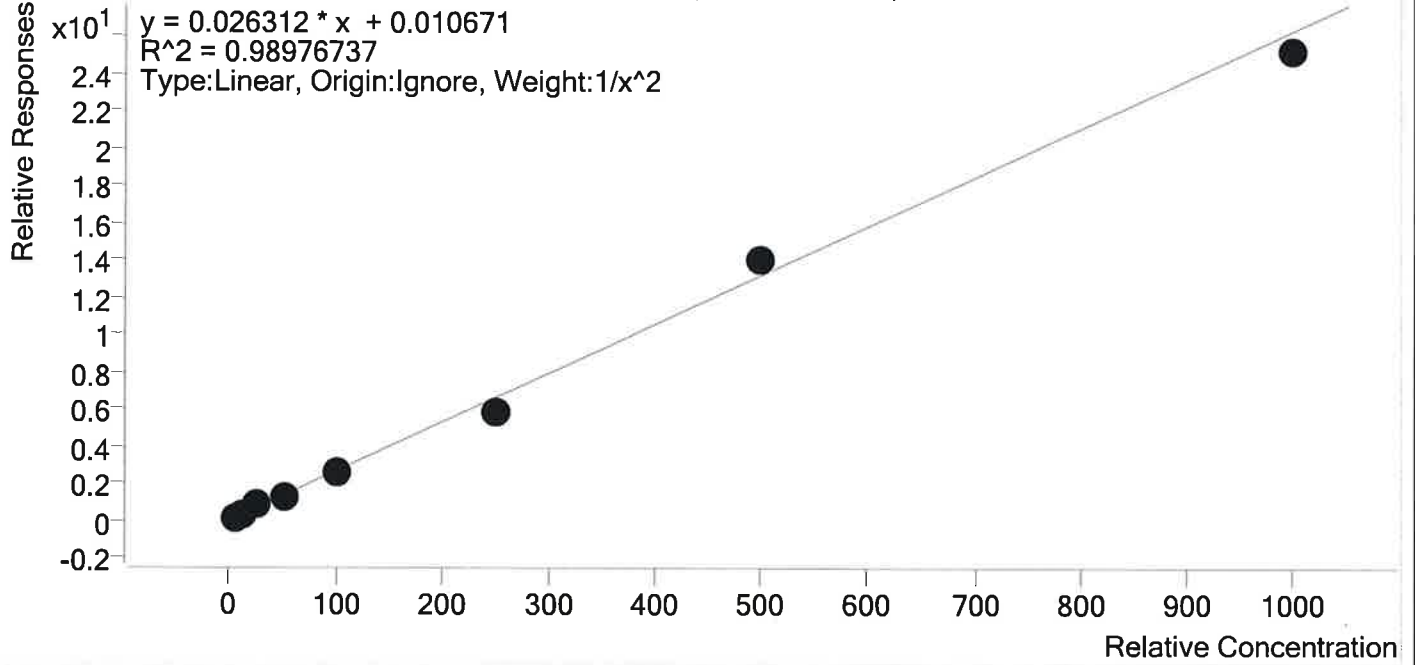
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11

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

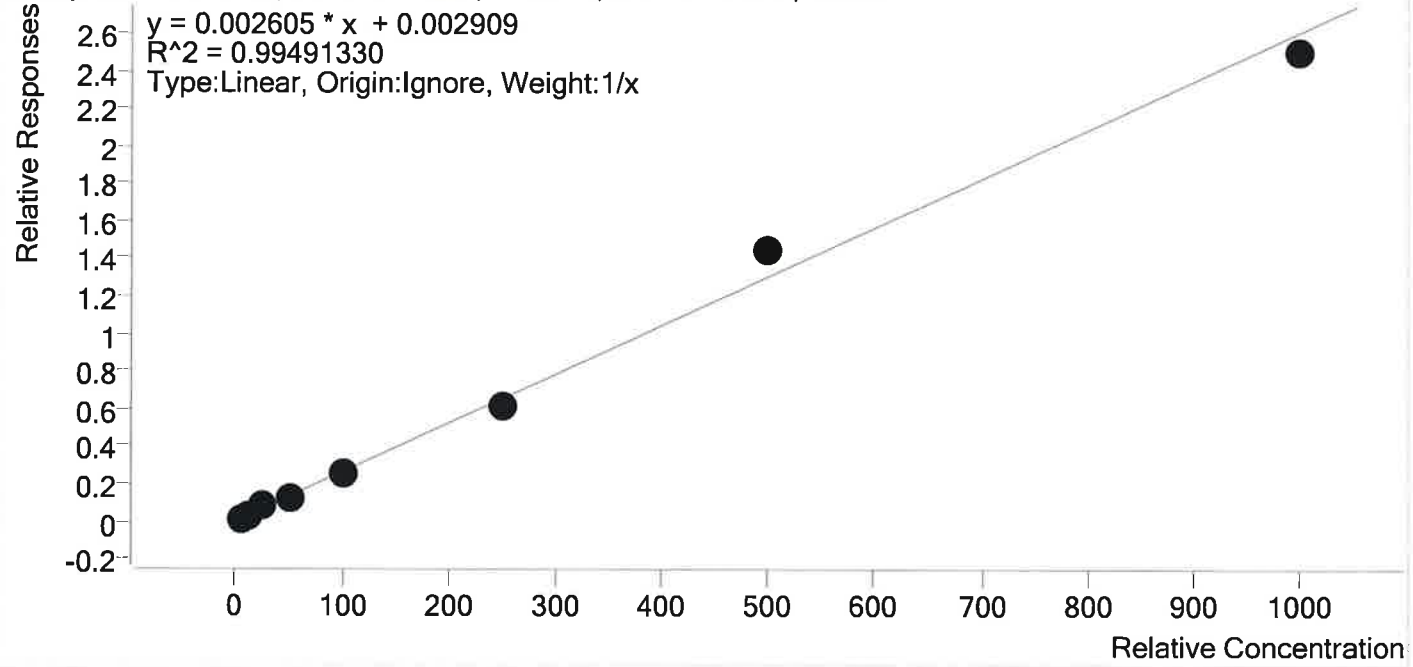


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.4
p1 Cal 3- 25ng	3	✓	25.0	29.5	118.1
p1 Cal 4-50ng	4	✓	50.0	47.8	95.7
p1 Cal 5-100ng	5	✓	100.0	96.6	96.6
p1 Cal 6-250ng	6	✓	250.0	223.6	89.4
p1 Cal 7-500ng	7	✓	500.0	535.5	107.1
p1 Cal 8-1000ng	8	✓	1000.0	958.0	95.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Metoprolol **Internal Standard** Tramadol-13C-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	83.6
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3- 25ng	3	✓	25.0	30.0	119.8
p1 Cal 4-50ng	4	✓	50.0	50.1	100.2
p1 Cal 5-100ng	5	✓	100.0	97.8	97.8
p1 Cal 6-250ng	6	✓	250.0	236.8	94.7
p1 Cal 7-500ng	7	✓	500.0	552.4	110.5
p1 Cal 8-1000ng	8	✓	1000.0	959.0	95.9

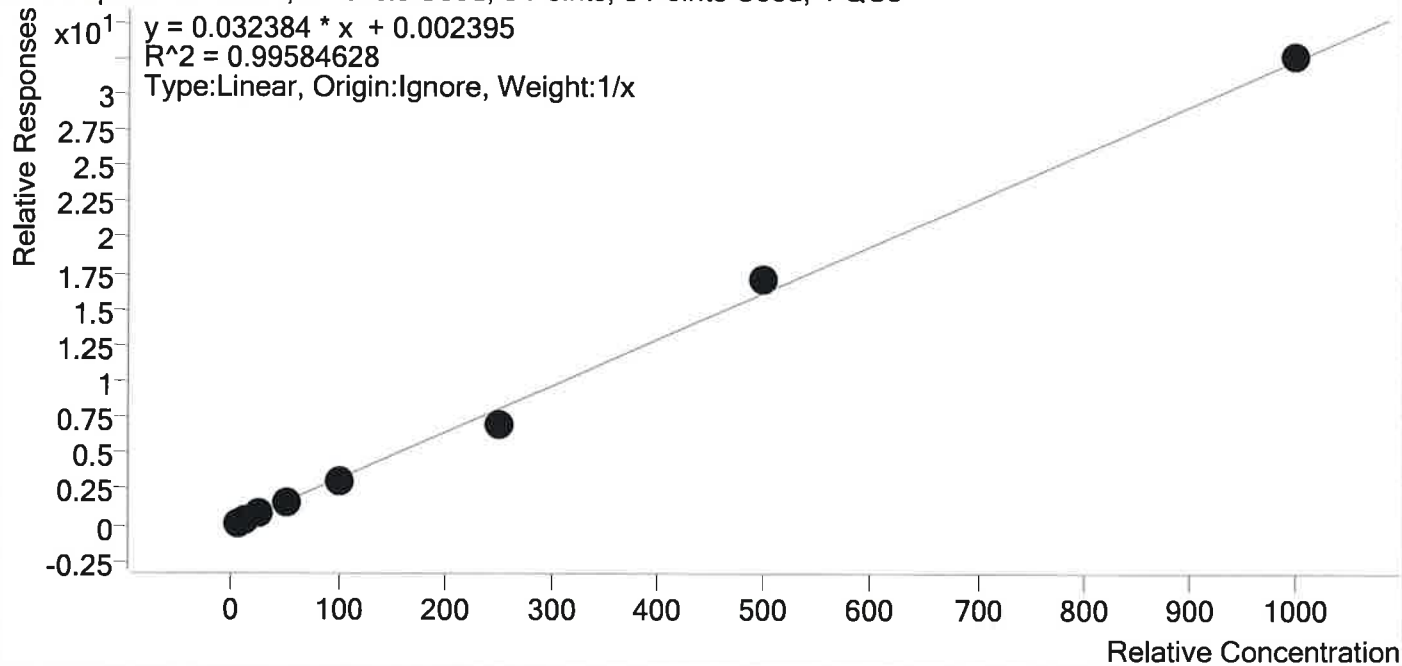
TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

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

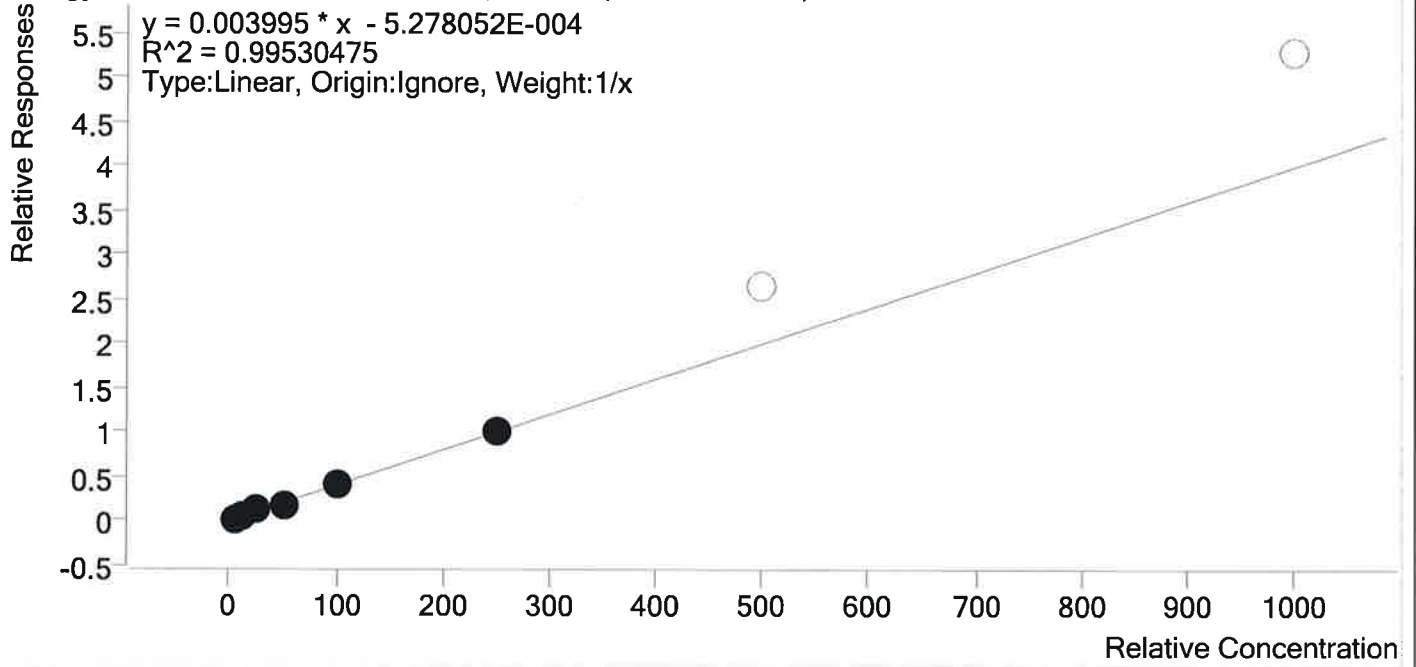


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3- 25ng	3	✓	25.0	28.7	114.8
p1 Cal 4-50ng	4	✓	50.0	46.8	93.6
p1 Cal 5-100ng	5	✓	100.0	92.5	92.5
p1 Cal 6-250ng	6	✓	250.0	218.0	87.2
p1 Cal 7-500ng	7	✓	500.0	530.9	106.2
p1 Cal 8-1000ng	8	✓	1000.0	1007.8	100.8

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.5
p1 Cal 2- 10ng	2	✓	10.0	9.1	91.0
p1 Cal 3- 25ng	3	✓	25.0	29.5	118.1
p1 Cal 4-50ng	4	✓	50.0	44.3	88.6
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	253.5	101.4
p1 Cal 7-500ng	7	×	500.0	658.8	131.8
p1 Cal 8-1000ng	8	×	1000.0	1322.5	132.2

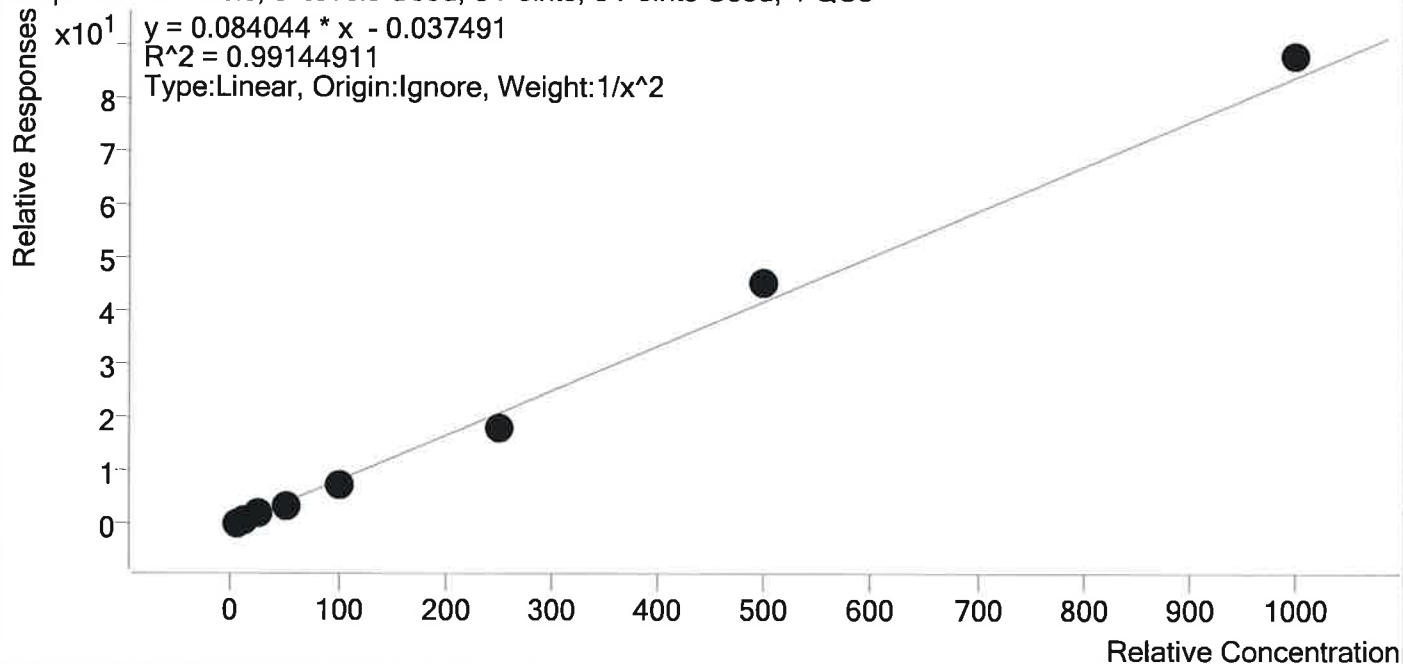
TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Morphine **Internal Standard** Morphine-D6

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

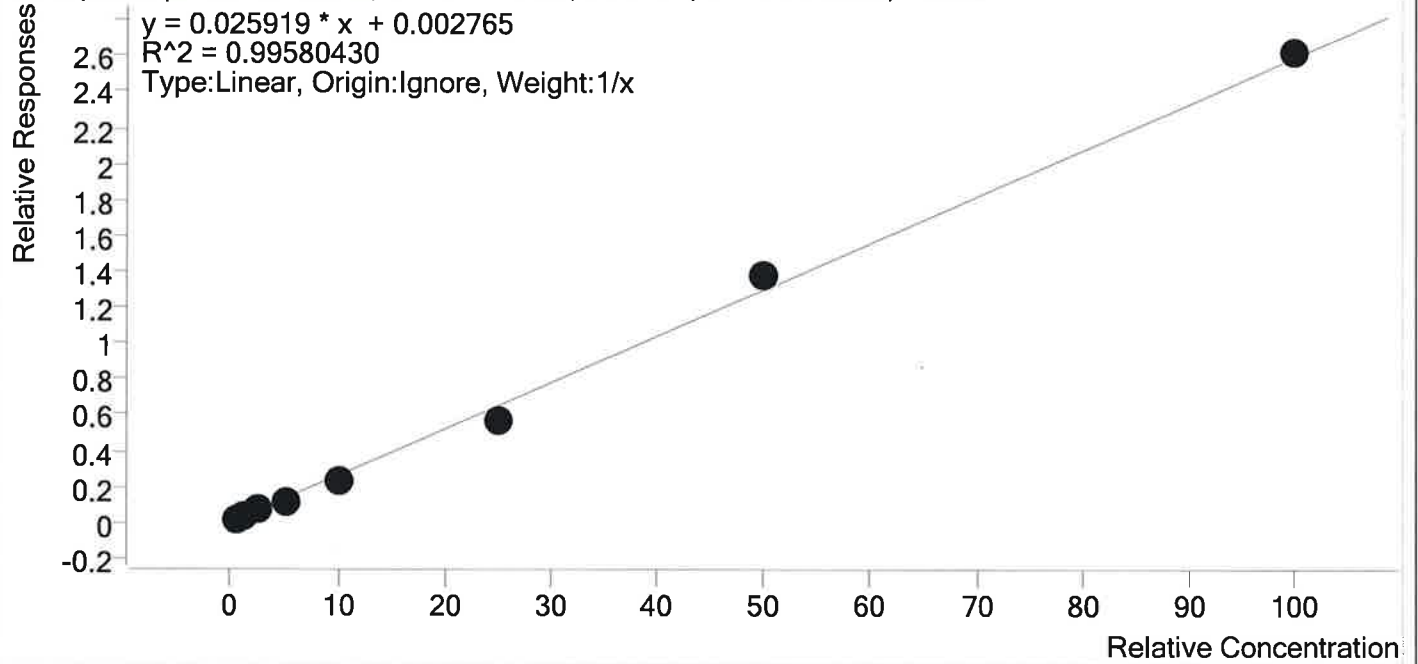


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3- 25ng	3	✓	25.0	28.0	112.2
p1 Cal 4-50ng	4	✓	50.0	46.8	93.7
p1 Cal 5-100ng	5	✓	100.0	93.7	93.7
p1 Cal 6-250ng	6	✓	250.0	221.0	88.4
p1 Cal 7-500ng	7	✓	500.0	539.8	108.0
p1 Cal 8-1000ng	8	✓	1000.0	1046.6	104.7

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wklst3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 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
p1 Cal 1-5ng	1	✓	0.5	0.6	123.1
p1 Cal 2- 10ng	2	✓	1.0	0.9	92.0
p1 Cal 3- 25ng	3	✓	2.5	2.6	105.6
p1 Cal 4-50ng	4	✓	5.0	4.7	93.6
p1 Cal 5-100ng	5	✓	10.0	9.1	91.1
p1 Cal 6-250ng	6	✓	25.0	21.8	87.3
p1 Cal 7-500ng	7	✓	50.0	53.1	106.2
p1 Cal 8-1000ng	8	✓	100.0	101.1	101.1

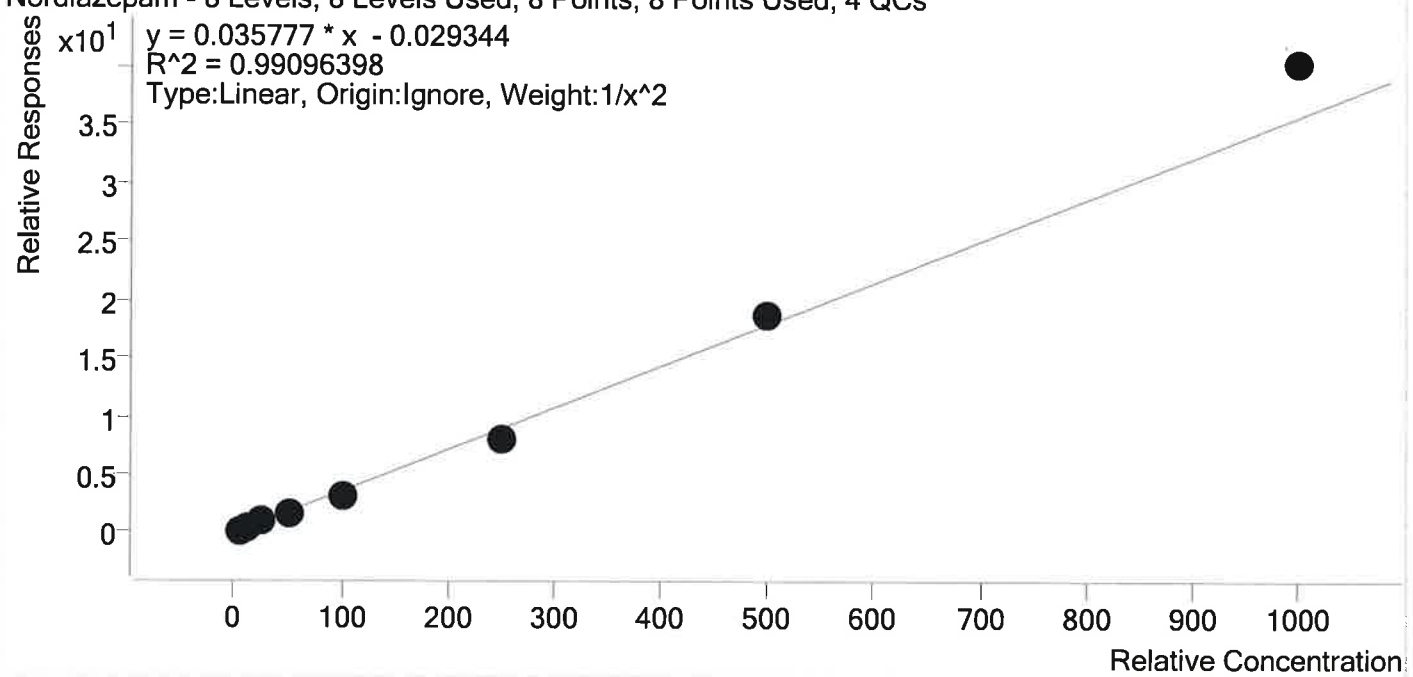
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5

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

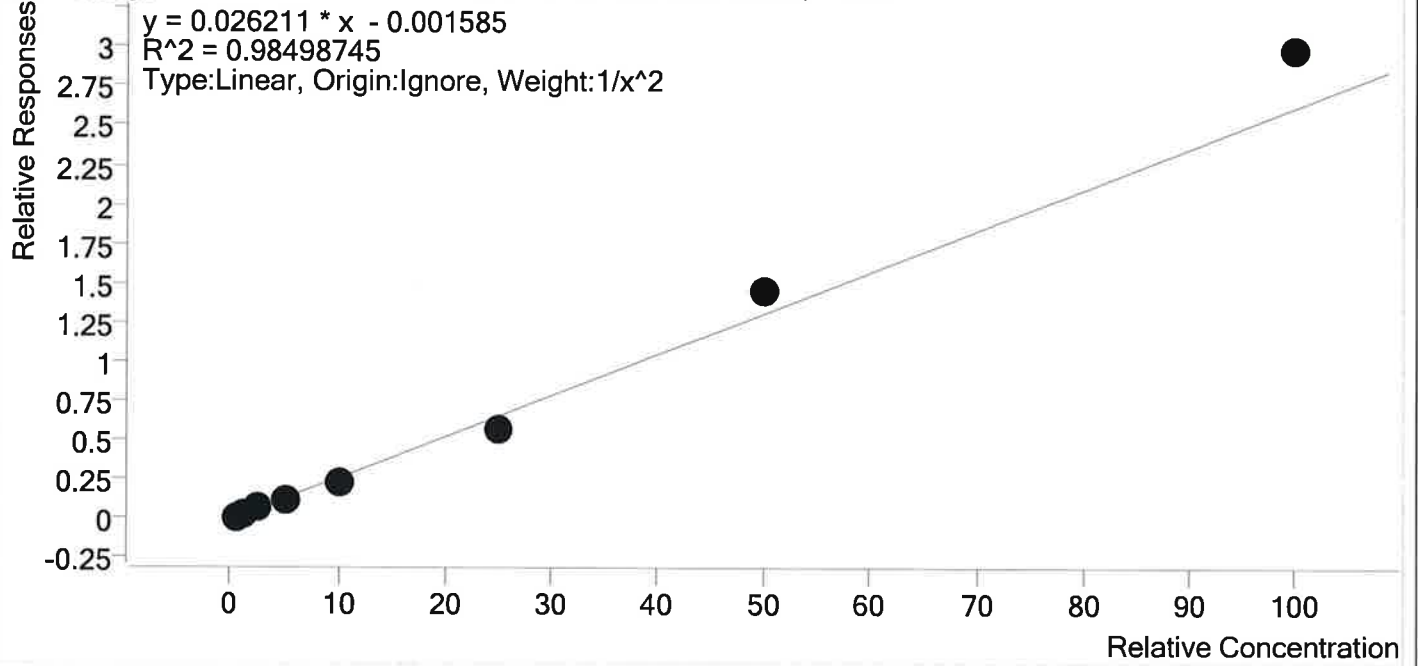


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.6
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.2
p1 Cal 3- 25ng	3	✓	25.0	27.0	107.9
p1 Cal 4-50ng	4	✓	50.0	48.6	97.3
p1 Cal 5-100ng	5	✓	100.0	92.0	92.0
p1 Cal 6-250ng	6	✓	250.0	220.8	88.3
p1 Cal 7-500ng	7	✓	500.0	525.6	105.1
p1 Cal 8-1000ng	8	✓	1000.0	1126.1	112.6

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.7
p1 Cal 3- 25ng	3	✓	2.5	2.7	109.8
p1 Cal 4-50ng	4	✓	5.0	4.4	87.2
p1 Cal 5-100ng	5	✓	10.0	9.1	91.0
p1 Cal 6-250ng	6	✓	25.0	22.0	88.2
p1 Cal 7-500ng	7	✓	50.0	55.7	111.4
p1 Cal 8-1000ng	8	✓	100.0	113.8	113.8

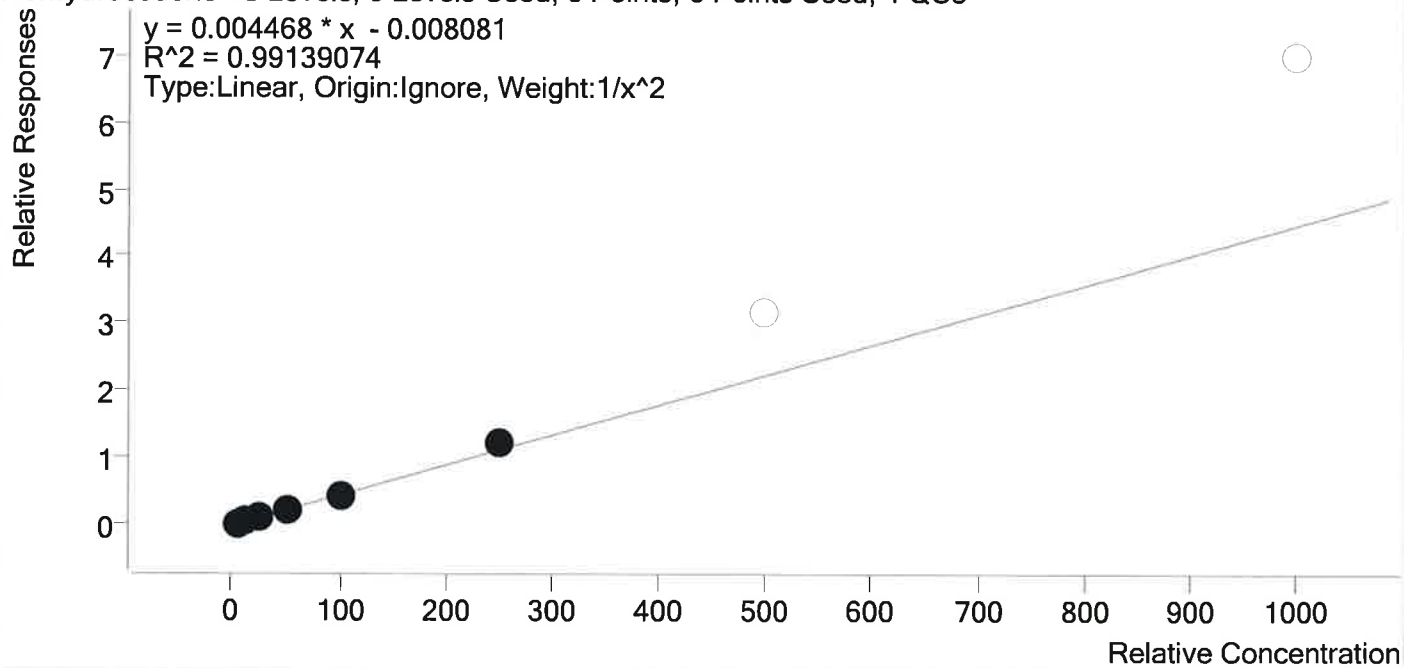
TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	9.6	95.9
p1 Cal 3- 25ng	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	44.6	89.3
p1 Cal 5-100ng	5	✓	100.0	96.8	96.8
p1 Cal 6-250ng	6	✓	250.0	276.2	110.5
p1 Cal 7-500ng	7	×	500.0	713.1	142.6
p1 Cal 8-1000ng	8	×	1000.0	1562.7	156.3

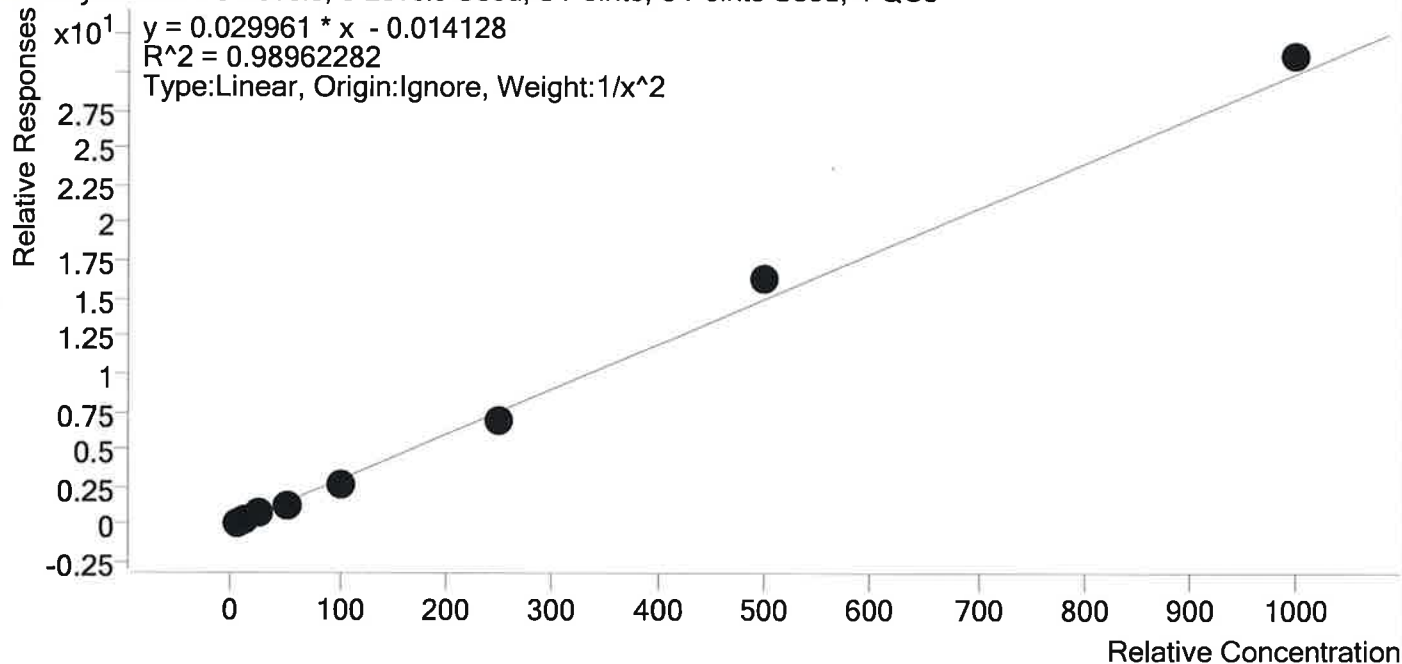
15

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3

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



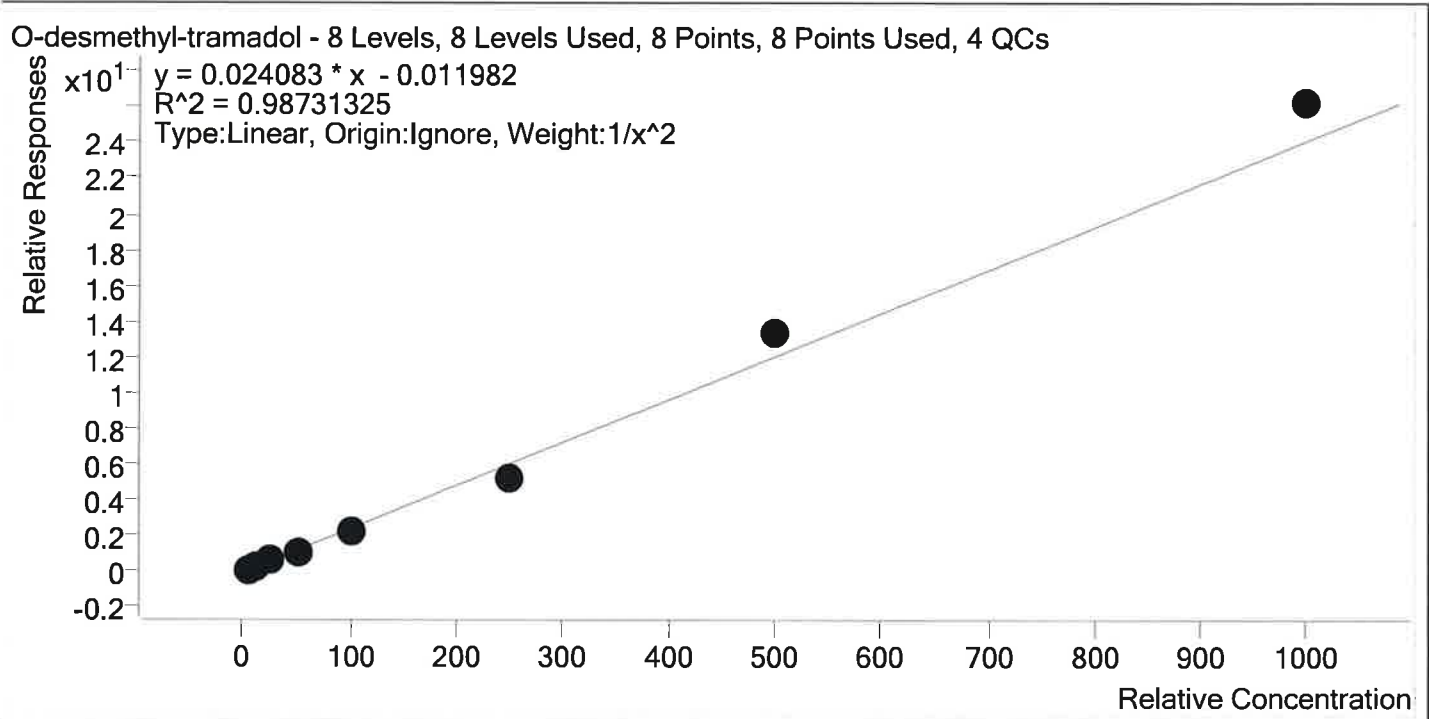
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3- 25ng	3	✓	25.0	28.7	114.7
p1 Cal 4-50ng	4	✓	50.0	45.1	90.2
p1 Cal 5-100ng	5	✓	100.0	92.2	92.2
p1 Cal 6-250ng	6	✓	250.0	228.5	91.4
p1 Cal 7-500ng	7	✓	500.0	547.0	109.4
p1 Cal 8-1000ng	8	✓	1000.0	1039.0	103.9

TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wklist3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.2
p1 Cal 3- 25ng	3	✓	25.0	28.0	112.0
p1 Cal 4-50ng	4	✓	50.0	45.2	90.3
p1 Cal 5-100ng	5	✓	100.0	90.7	90.7
p1 Cal 6-250ng	6	✓	250.0	221.7	88.7
p1 Cal 7-500ng	7	✓	500.0	558.6	111.7
p1 Cal 8-1000ng	8	✓	1000.0	1088.9	108.9

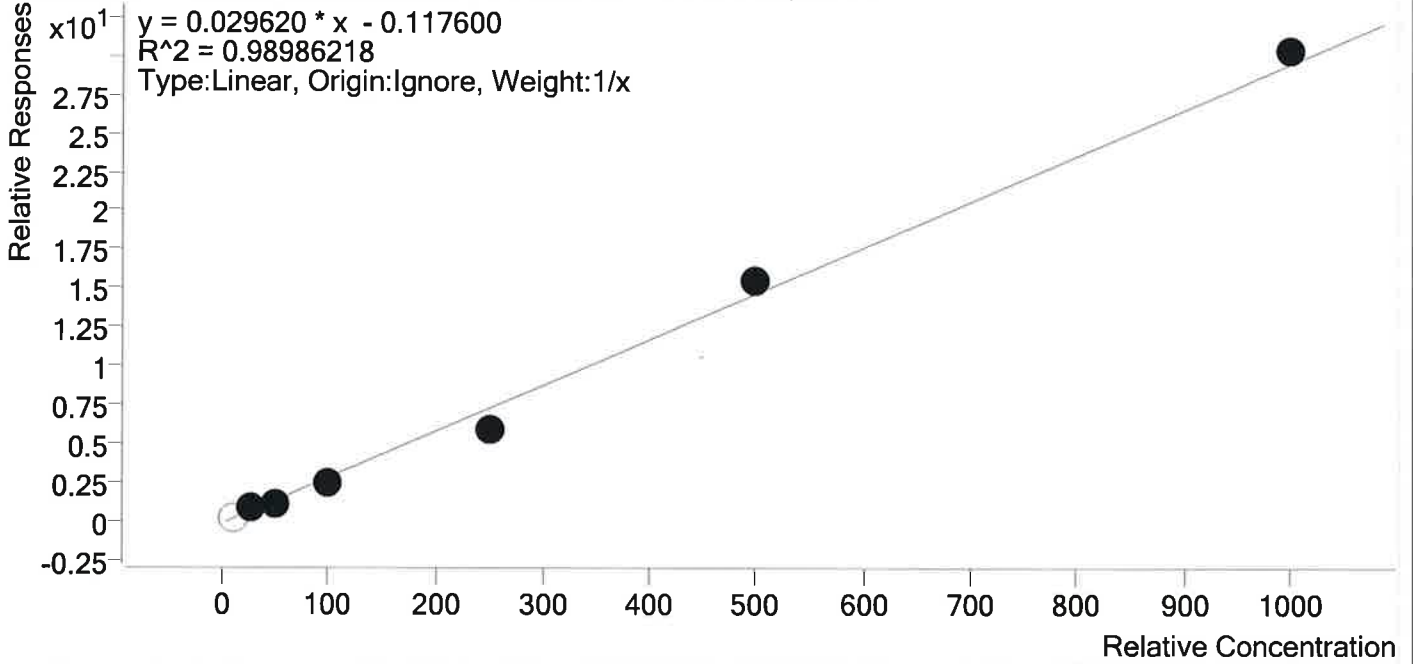
TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	×	10.0	12.8	127.9
p1 Cal 3- 25ng	3	✓	25.0	32.5	129.9
p1 Cal 4-50ng	4	✓	50.0	45.3	90.6
p1 Cal 5-100ng	5	✓	100.0	90.6	90.6
p1 Cal 6-250ng	6	✓	250.0	202.0	80.8
p1 Cal 7-500ng	7	✓	500.0	525.8	105.2
p1 Cal 8-1000ng	8	✓	1000.0	1028.7	102.9

*Compound not evaluated. - TS

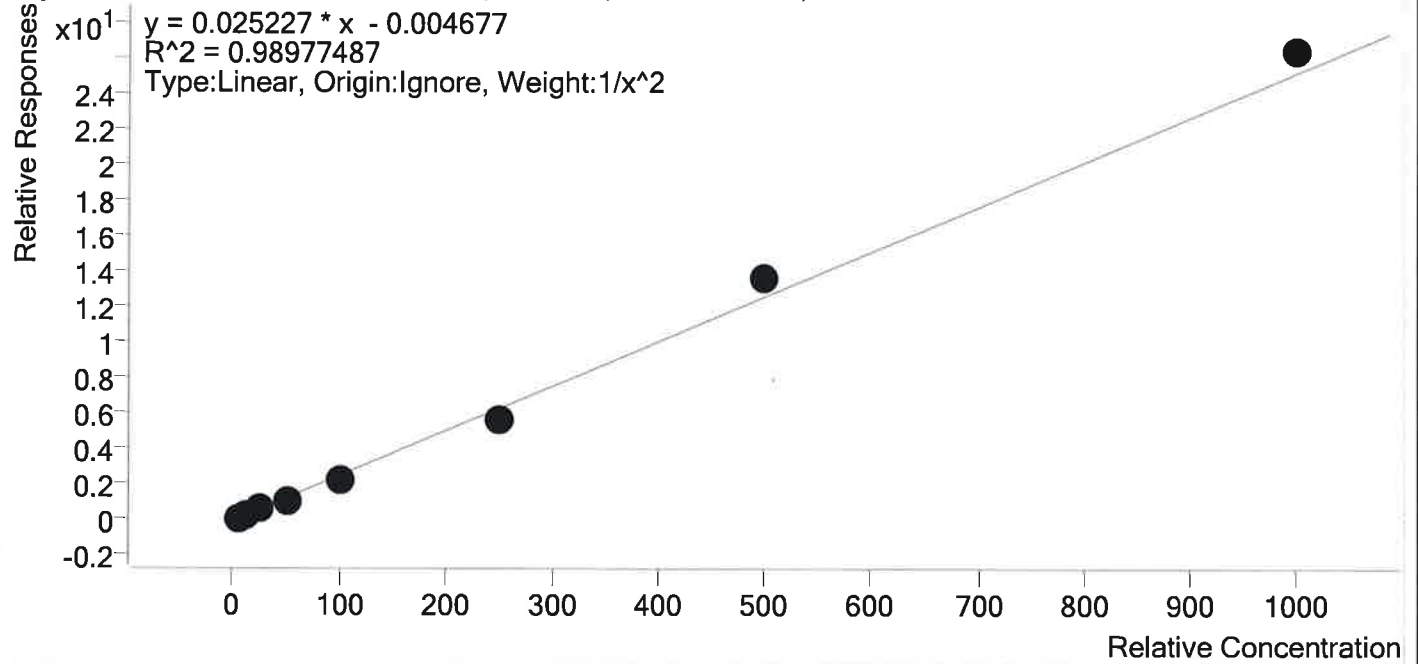
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Oxycodone **Internal Standard** Oxycodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.0
p1 Cal 3- 25ng	3	✓	25.0	28.6	114.5
p1 Cal 4-50ng	4	✓	50.0	45.9	91.8
p1 Cal 5-100ng	5	✓	100.0	93.8	93.8
p1 Cal 6-250ng	6	✓	250.0	221.7	88.7
p1 Cal 7-500ng	7	✓	500.0	543.5	108.7
p1 Cal 8-1000ng	8	✓	1000.0	1047.6	104.8

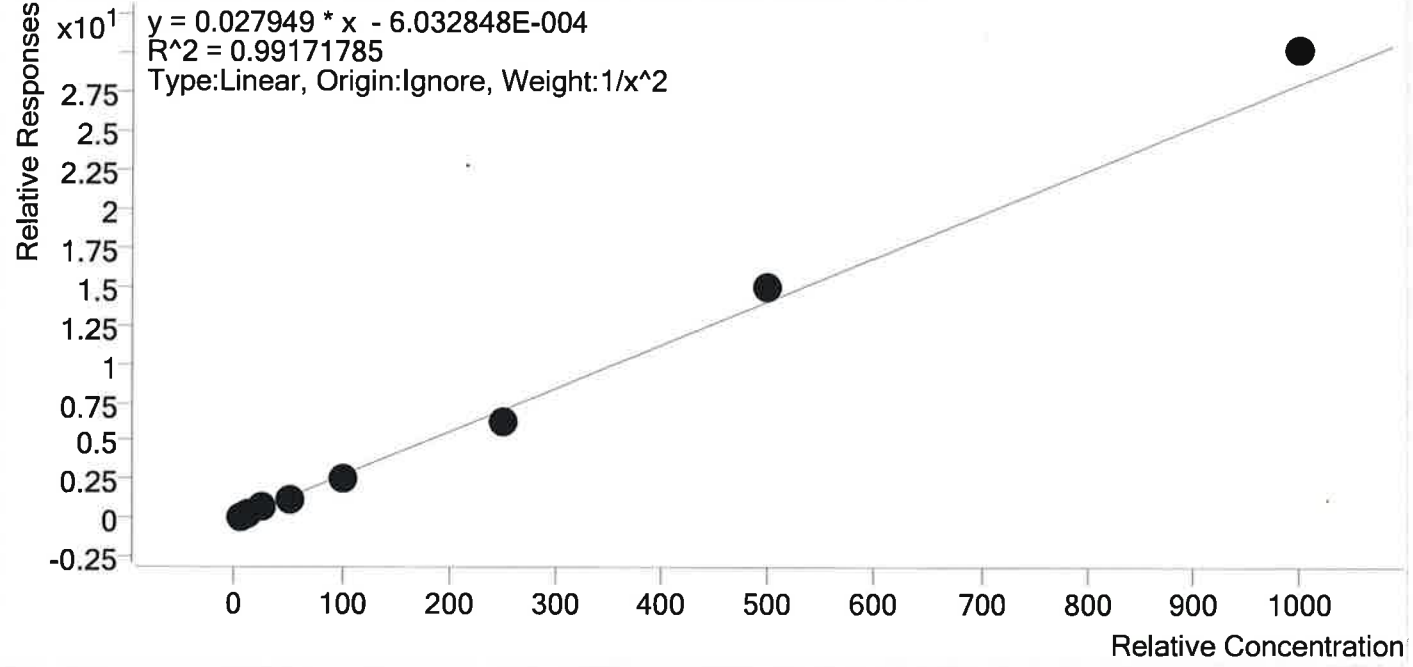
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wklist3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Oxymorphone **Internal Standard** Oxymorphone-D3

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



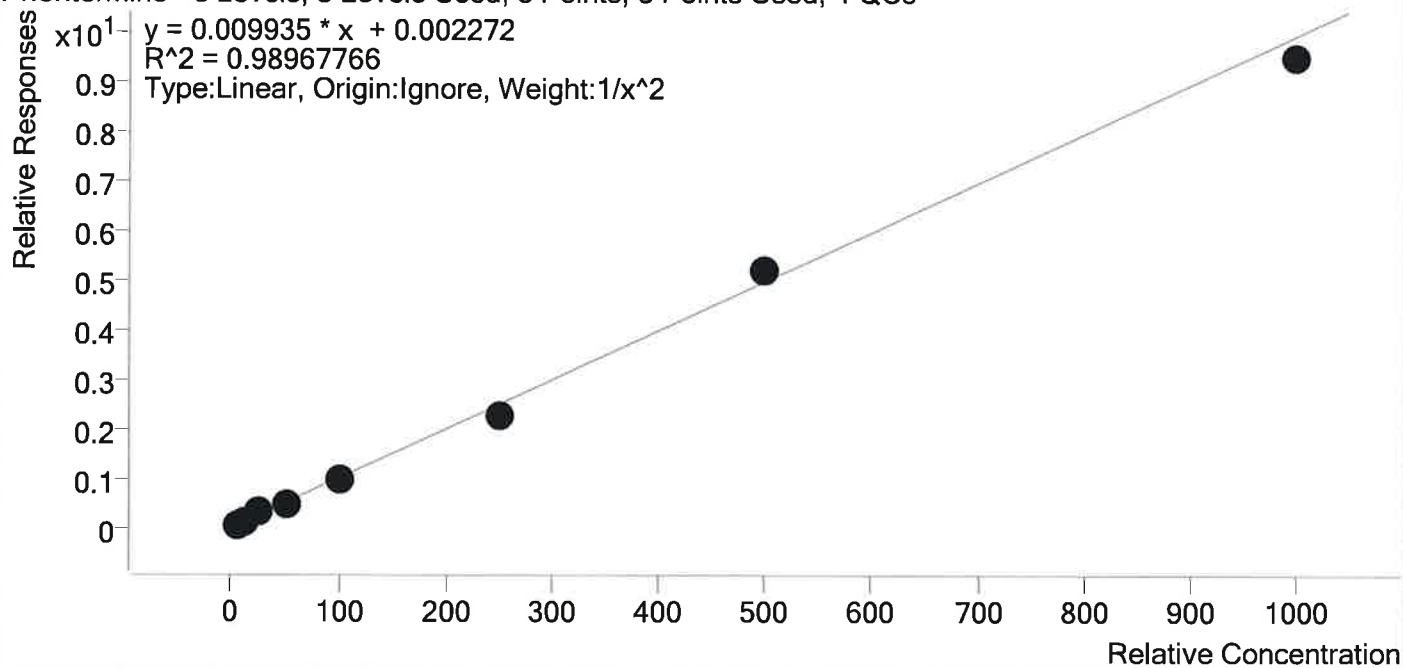
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3- 25ng	3	✓	25.0	28.0	112.0
p1 Cal 4-50ng	4	✓	50.0	46.5	93.0
p1 Cal 5-100ng	5	✓	100.0	93.9	93.9
p1 Cal 6-250ng	6	✓	250.0	223.7	89.5
p1 Cal 7-500ng	7	✓	500.0	529.8	106.0
p1 Cal 8-1000ng	8	✓	1000.0	1077.6	107.8



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Phentermine **Internal Standard** Phentermine-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3- 25ng	3	✓	25.0	29.8	119.3
p1 Cal 4-50ng	4	✓	50.0	48.0	96.0
p1 Cal 5-100ng	5	✓	100.0	95.9	95.9
p1 Cal 6-250ng	6	✓	250.0	227.0	90.8
p1 Cal 7-500ng	7	✓	500.0	524.4	104.9
p1 Cal 8-1000ng	8	✓	1000.0	954.9	95.5

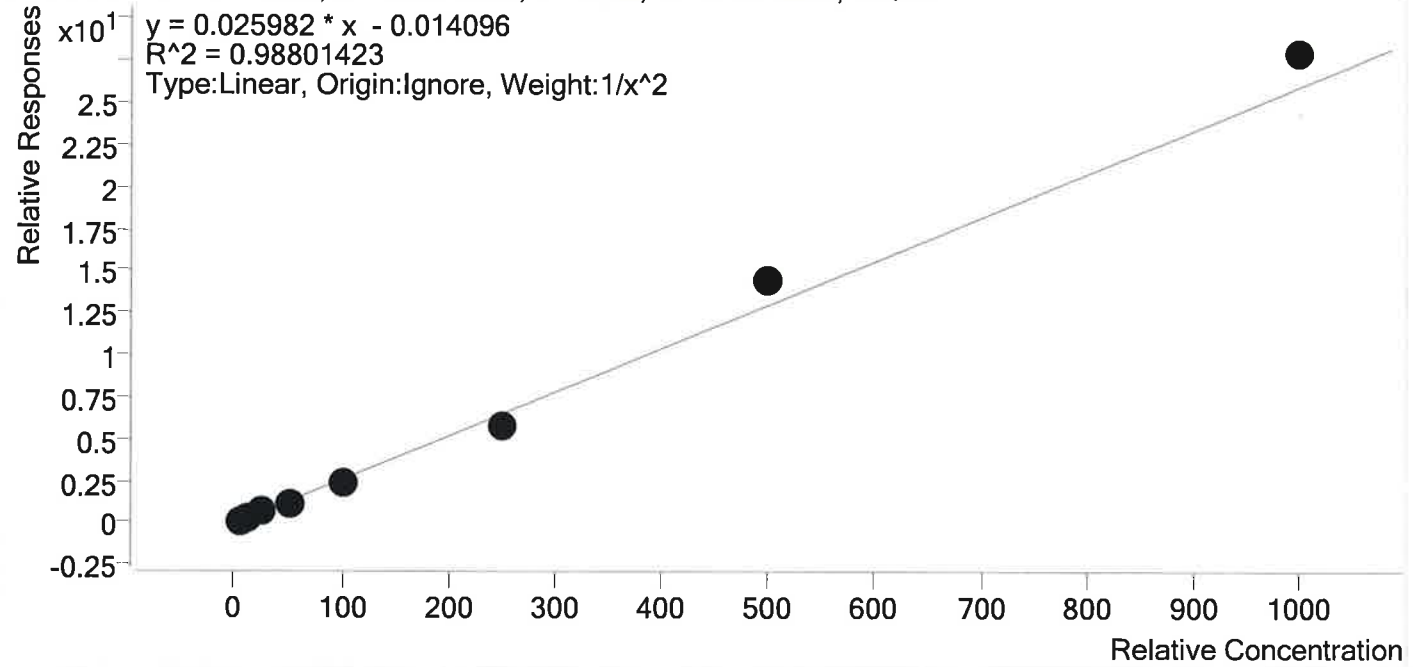
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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



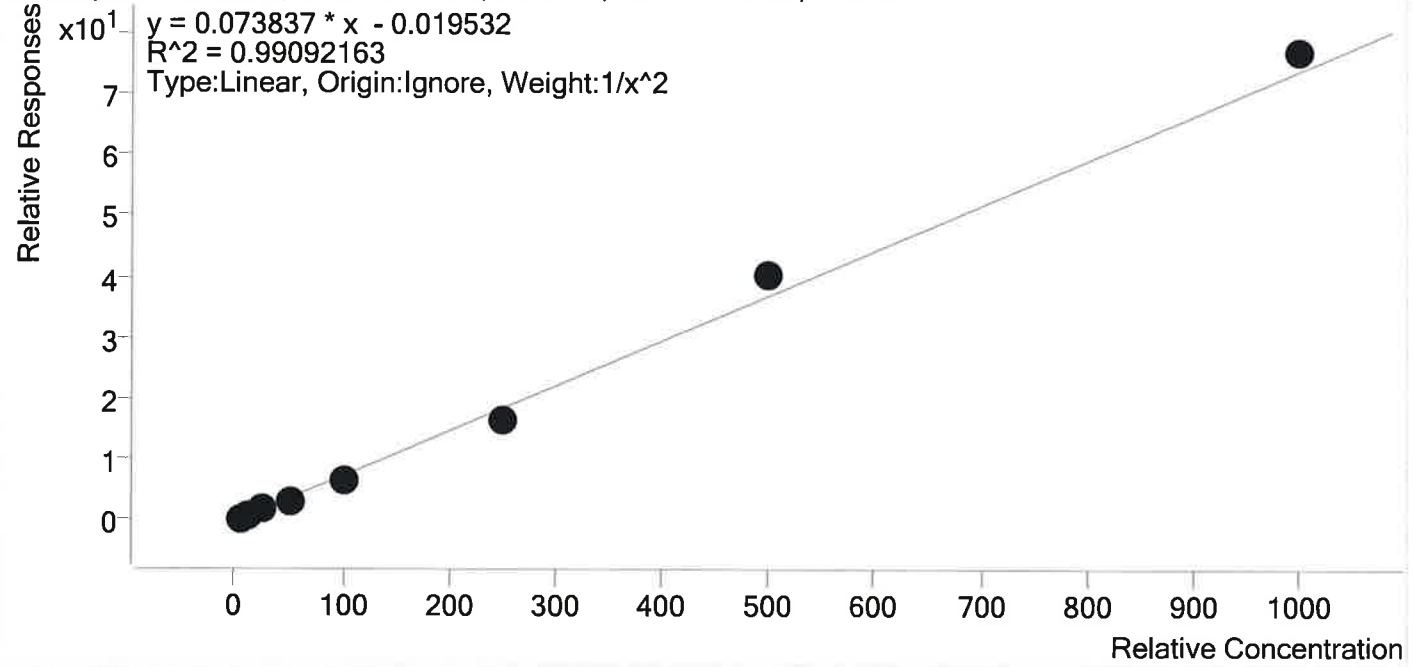
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3- 25ng	3	✓	25.0	28.2	112.7
p1 Cal 4-50ng	4	✓	50.0	44.4	88.9
p1 Cal 5-100ng	5	✓	100.0	91.0	91.0
p1 Cal 6-250ng	6	✓	250.0	225.5	90.2
p1 Cal 7-500ng	7	✓	500.0	554.4	110.9
p1 Cal 8-1000ng	8	✓	1000.0	1075.4	107.5

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8

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

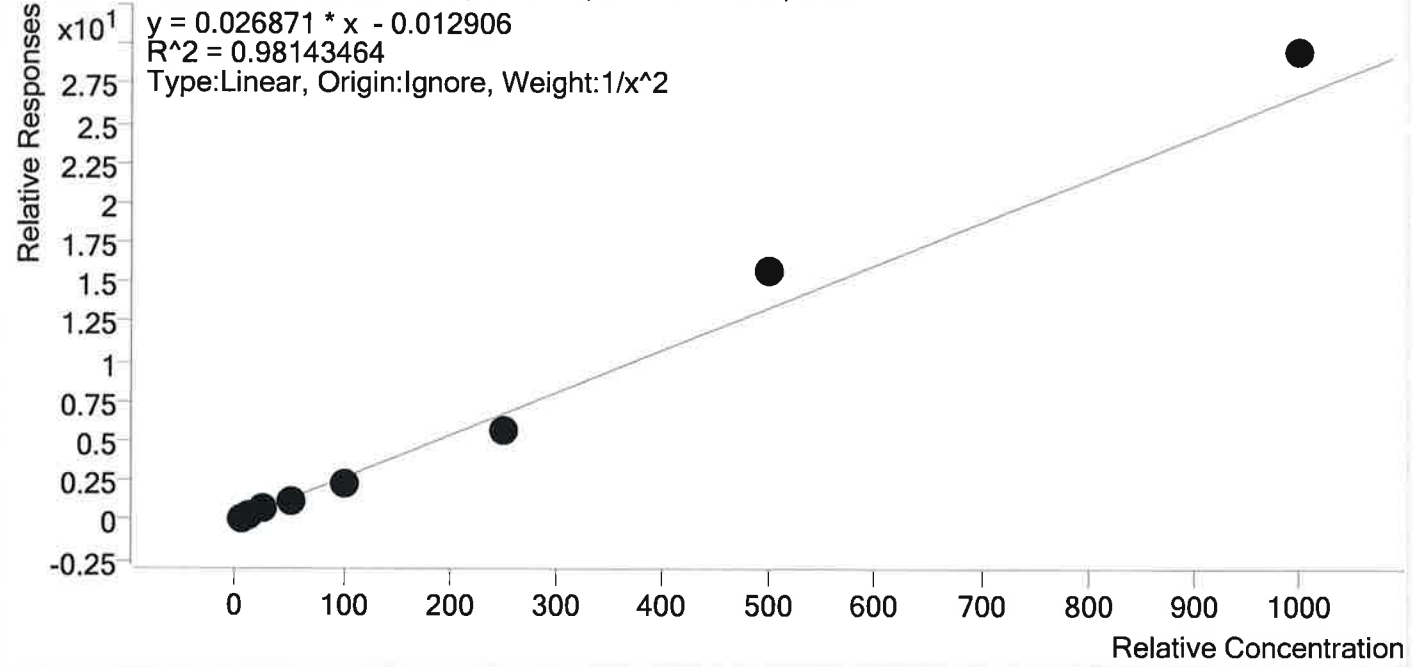


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.1
p1 Cal 3- 25ng	3	✓	25.0	28.3	113.3
p1 Cal 4-50ng	4	✓	50.0	46.7	93.3
p1 Cal 5-100ng	5	✓	100.0	93.4	93.4
p1 Cal 6-250ng	6	✓	250.0	222.6	89.1
p1 Cal 7-500ng	7	✓	500.0	543.9	108.8
p1 Cal 8-1000ng	8	✓	1000.0	1041.6	104.2

Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Sertraline **Internal Standard** Sertraline-D3

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2- 10ng	2	✓	10.0	9.6	95.5
p1 Cal 3- 25ng	3	✓	25.0	28.1	112.4
p1 Cal 4-50ng	4	✓	50.0	44.5	89.1
p1 Cal 5-100ng	5	✓	100.0	88.5	88.5
p1 Cal 6-250ng	6	✓	250.0	215.7	86.3
p1 Cal 7-500ng	7	✓	500.0	583.6	116.7
p1 Cal 8-1000ng	8	✓	1000.0	1101.0	110.1

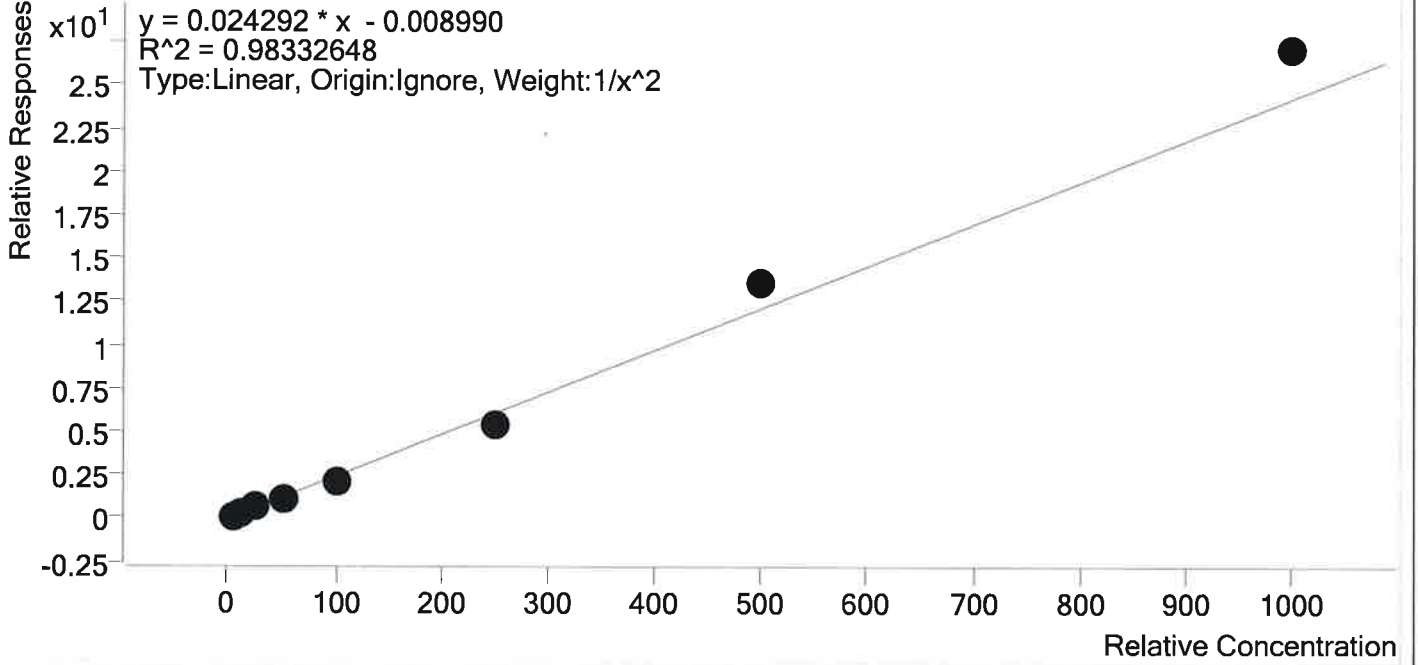
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Temazepam **Internal Standard** Temazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.6	95.7
p1 Cal 3- 25ng	3	✓	25.0	28.2	112.9
p1 Cal 4-50ng	4	✓	50.0	43.7	87.3
p1 Cal 5-100ng	5	✓	100.0	88.6	88.6
p1 Cal 6-250ng	6	✓	250.0	223.6	89.4
p1 Cal 7-500ng	7	✓	500.0	564.9	113.0
p1 Cal 8-1000ng	8	✓	1000.0	1116.3	111.6

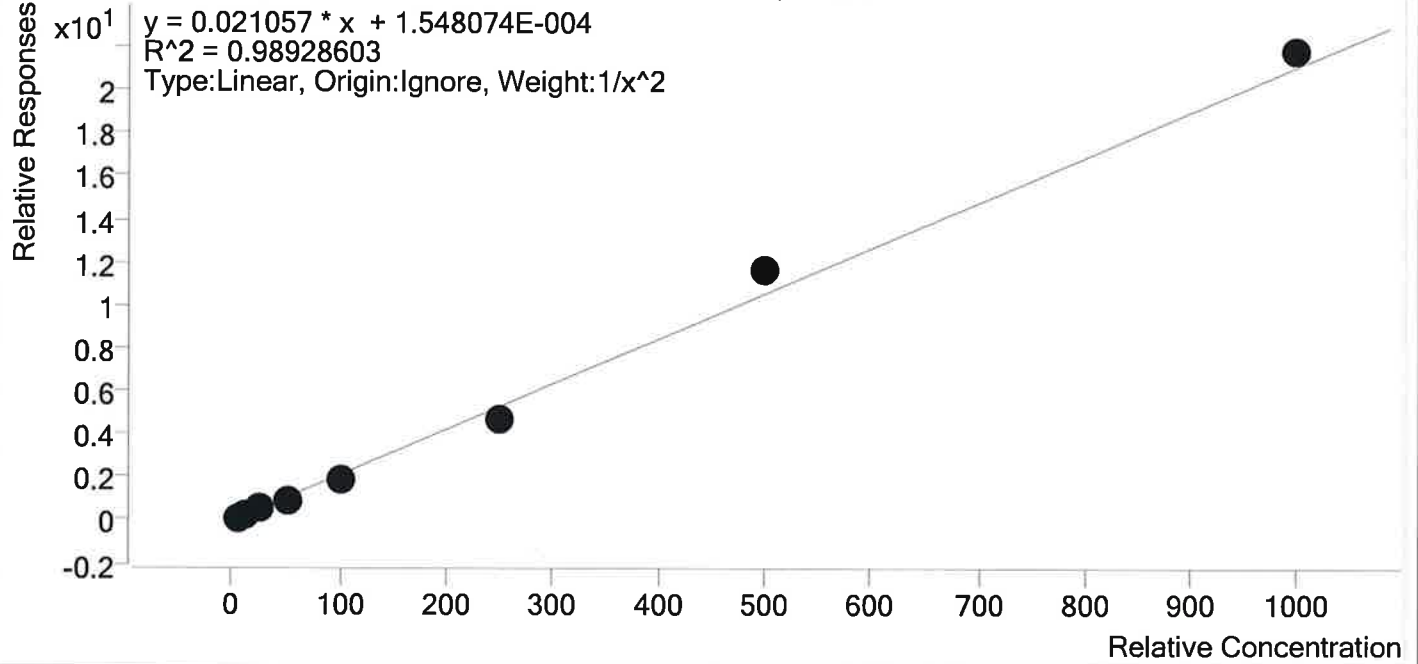
TS



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wklist3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

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



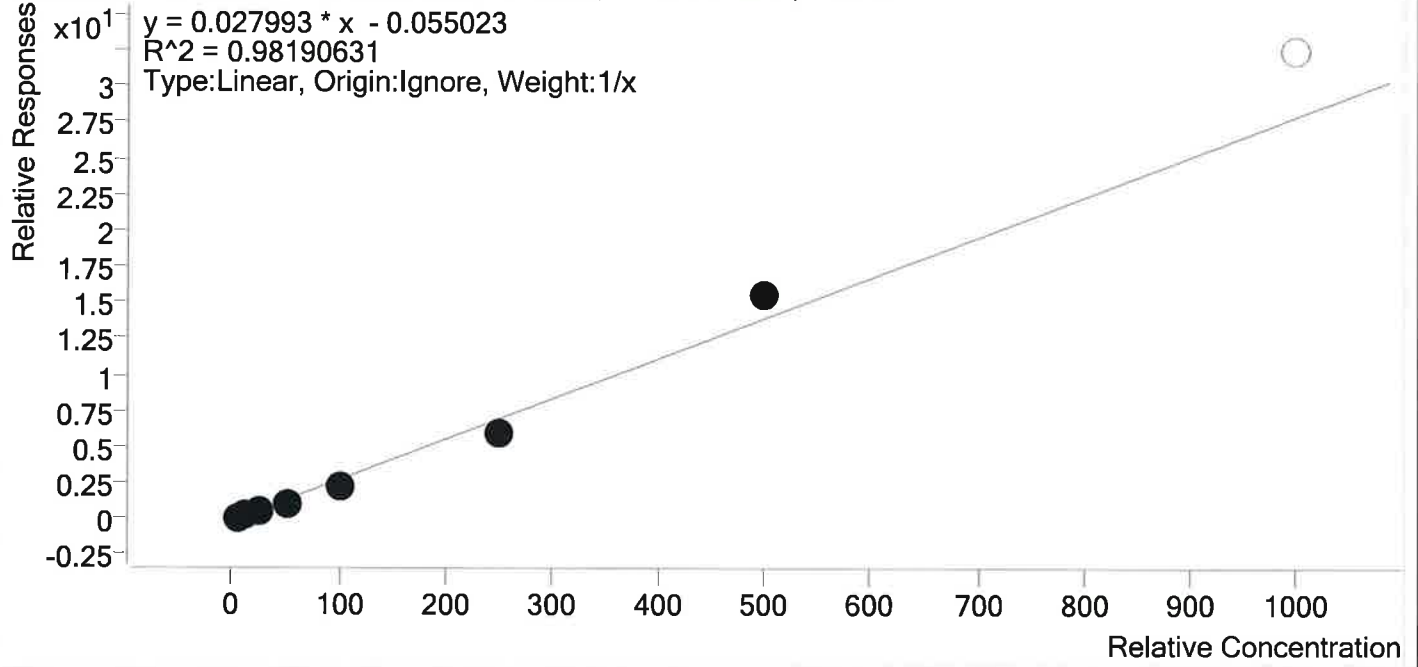
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.5
p1 Cal 3- 25ng	3	✓	25.0	28.7	114.7
p1 Cal 4-50ng	4	✓	50.0	46.4	92.8
p1 Cal 5-100ng	5	✓	100.0	90.7	90.7
p1 Cal 6-250ng	6	✓	250.0	225.0	90.0
p1 Cal 7-500ng	7	✓	500.0	550.7	110.1
p1 Cal 8-1000ng	8	✓	1000.0	1035.3	103.5



Compound Calibration Report

Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Trazodone **Internal Standard** Trazodone-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.2	123.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3- 25ng	3	✓	25.0	26.6	106.6
p1 Cal 4-50ng	4	✓	50.0	42.3	84.6
p1 Cal 5-100ng	5	✓	100.0	86.4	86.4
p1 Cal 6-250ng	6	✓	250.0	213.2	85.3
p1 Cal 7-500ng	7	✓	500.0	555.1	111.0
p1 Cal 8-1000ng	8	×	1000.0	1162.3	116.2

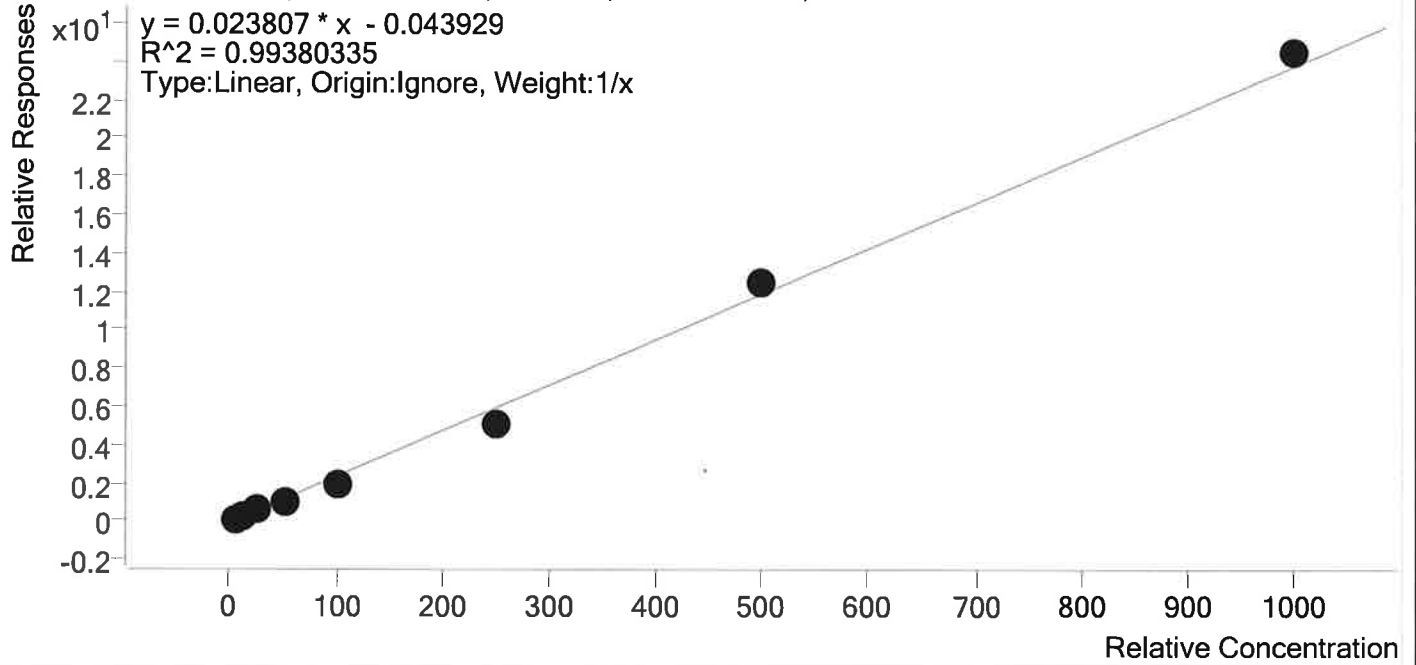
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wklist3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.0	120.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.1
p1 Cal 3- 25ng	3	✓	25.0	27.7	110.8
p1 Cal 4-50ng	4	✓	50.0	43.3	86.5
p1 Cal 5-100ng	5	✓	100.0	85.5	85.5
p1 Cal 6-250ng	6	✓	250.0	213.0	85.2
p1 Cal 7-500ng	7	✓	500.0	523.9	104.8
p1 Cal 8-1000ng	8	✓	1000.0	1030.2	103.0

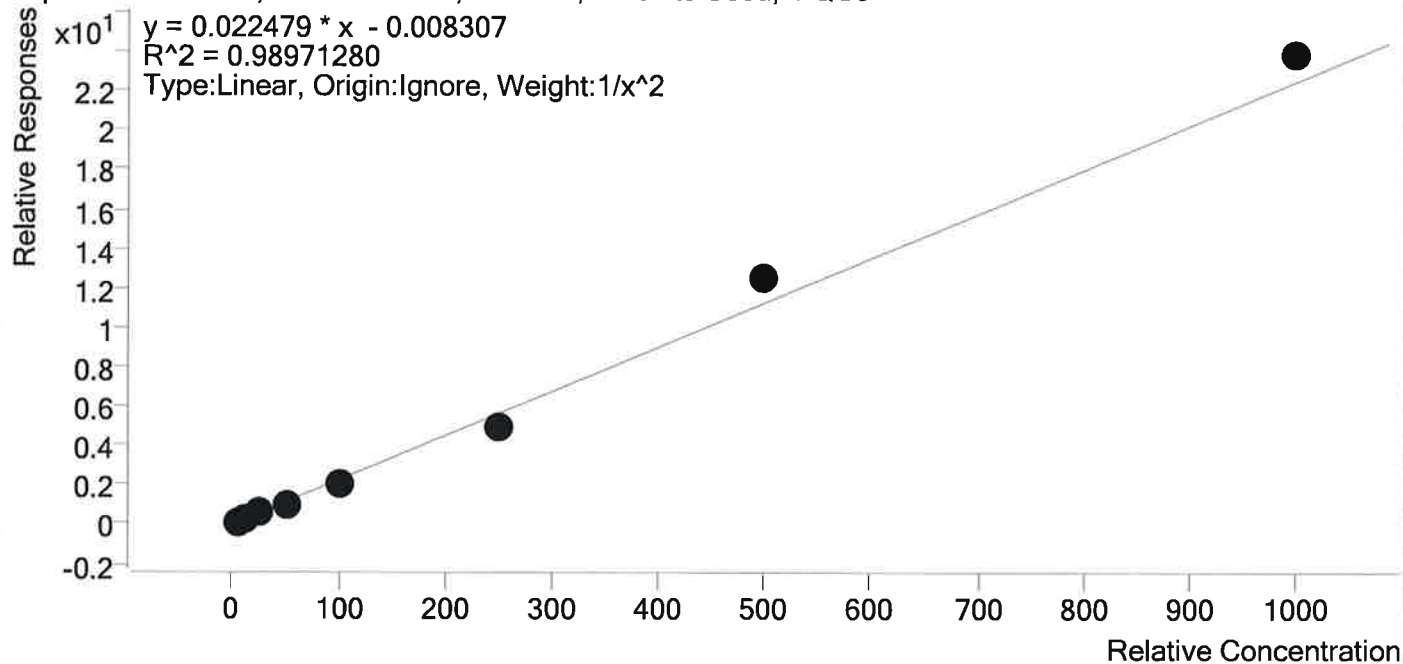
TS

Compound Calibration Report



Batch results D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS.batch.bin
Last Cal. Update 6/10/2019 9:31 AM
Analyst Name ISP\datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.4
p1 Cal 3- 25ng	3	✓	25.0	28.1	112.2
p1 Cal 4-50ng	4	✓	50.0	45.9	91.8
p1 Cal 5-100ng	5	✓	100.0	93.0	93.0
p1 Cal 6-250ng	6	✓	250.0	221.3	88.5
p1 Cal 7-500ng	7	✓	500.0	552.8	110.6
p1 Cal 8-1000ng	8	✓	1000.0	1059.4	105.9

TS

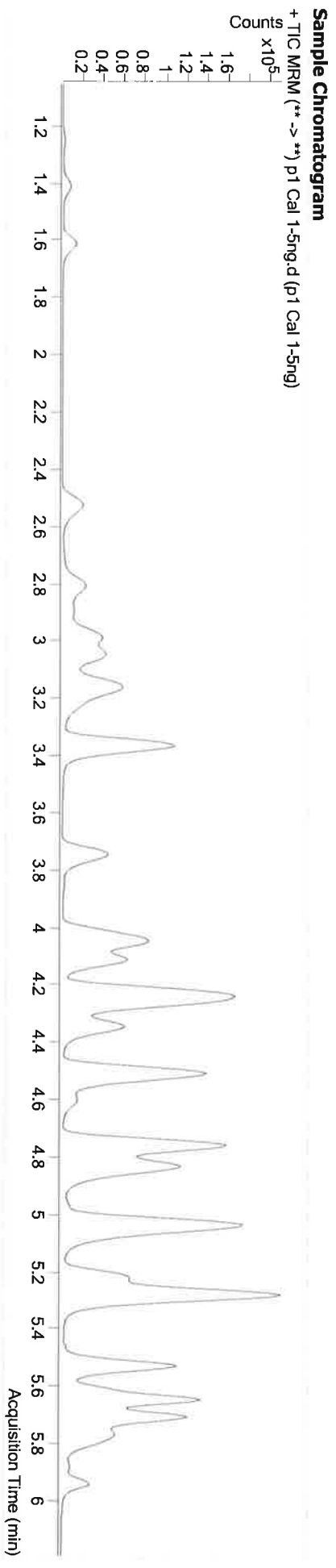
AM #28 Multi-Drug Quant. Results



Batch results
 Calibration Last Update: 6/10/2019 9:31:49 AM
 D:\MassHunter\Data\2019 AM 28\060619 MDQ TS SP\QuantResults\MDQ wkts3414 TS_batch.bin

Instrument: FALCO
Type: Cal
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-H12
Injection Volume: 1
Acq. Date-Time: 6/6/2019 10:51:33 AM
Sample Info.

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	747	57.69	58.2	∞	44197	0.5039 ng/ml
7-aminoclonazepam	4.253	4662	66.13	81.1	960.17	38471	4.1857 ng/ml
a-hydroxyalprazolam	5.682	1126	16.17	61.6	16.27	11329	4.9314 ng/ml
alpha-PVP	4.360	17647	827.08	52.8	720.60	160750	5.0150 ng/ml
Alprazolam	5.766	8015	270.71	101.8	∞	47982	5.8495 ng/ml
Amphetamine	3.062	29491	321.42	56.0	424.81	73661	4.7705 ng/ml
Benzoylecgonine	3.876	748	580.51	8.2	24.87	4464	5.2078 ng/ml
Buprenorphine	5.728	1625	28.63	16.3	53.03	120527	0.6151 ng/ml
Bupropion	4.782	65805	14211.38	57.9	445.26	461368	5.7841 ng/ml
Carisoprodol	5.714	6148	1407.04	56.2	32.43	67783	4.9879 ng/ml
Citalopram	5.222	16592	441.64	43.7	244.72	149356	5.7899 ng/ml
Cocaine	4.259	15861	2503.18	41.9	170.45	294154	5.8408 ng/ml
Codeine	2.583	2122	158.06	104.0	2512.27	19877	5.6266 ng/ml
Cyclobenzaprine	5.618	11823	19380.53	11.9	90.35	97572	5.0645 ng/ml
Dextromethorphan	5.265	10291	209.07	79.2	1485.06	100337	5.0031 ng/ml
Dextropropriphan	4.122	6699	23451.83	203.5	4013.95	159399	5.8686 ng/ml
Diazepam	5.952	5314	90.48	90.7	159.18	50320	4.9322 ng/ml
Dihydrocodeine	2.555	5814	1451.35	65.8	∞	62176	4.8744 ng/ml

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AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Diphenhydramine	5.292	48335	2865.47	33.7	∞	523863	5.9609 ng/ml
Doxylamine	4.529	46446	∞	97.0	7586.13	406248	5.8820 ng/ml
EDDP	5.257	312	9.48 Low	35.1	324.14	2655	10.3102 ng/ml
Fentanyl	5.079	1265	121.48	81.0	127.37	126026	0.4907 ng/ml
Fluoxetine	5.711	12129	1231.61	10.8	313.29	93749	4.9798 ng/ml
Hydrocodone	3.025	6324	87.70	41.8	50.28	74467	4.9872 ng/ml
Hydromorphone	1.628	5399	616.38	74.8	156.33	38579	4.9883 ng/ml
Ketamine	4.042	15265	731.60	38.2	223.39	139866	4.9636 ng/ml
Lamotrigine	4.284	1810	3628.31	70.9	∞	139866	4.8170 ng/ml
Lorazepam	5.737	821	7.79 Low	72.3 High	2.37 Low	2357	5.6109 ng/ml
Meperbamate	4.899	2376	1434.05	27.2	52.31	22805	5.0627 ng/ml
Methadone	5.656	27076	1003.56	48.3	165.79	266769	5.8563 ng/ml
Methamphetamine	3.231	27799	28.76	43.3	110.83	201113	4.8478 ng/ml
Metoprolol	4.322	4845	1341.22	90.3	∞	350992	4.1825 ng/ml
Mirtazapine	4.604	27292	699.73	46.9	386.92	160750	5.1687 ng/ml
Mirtagynine	5.208	5322	1231.33	36.9	2127.26	266769	5.1253 ng/ml
Morphine	1.260	1456	1344.26	26.7	∞	3897	4.8930 ng/ml
Norbuprenorphine	4.982	283	23.43	86.1	33.89	15132	0.6154 ng/ml
Nordiazepam	5.891	1158	190.72	54.7	93.63	7601	5.0801 ng/ml
Norfentanyl	4.084	2347	537.30	37.4	34.41	201552	0.5048 ng/ml
Norhydrocodone	3.073	1327	∞	43.8	45.36	90315	5.0981 ng/ml
Noroxycodone	2.921	3988	226.40	47.5	46.72	29782	4.9403 ng/ml
O-desmethyl-tramadol	3.379	36197	1394.27	7.1	193.73	332061	5.0239 ng/ml
Oxycodone	2.840	11166	267.19	30.0	56.99	93039	4.9428 ng/ml
Oxymorphone	1.417	3329	456.39	45.7	142.67	24026	4.9797 ng/ml
Phentermine	3.781	7929	126.79	3.1	9.80 Low	158508	4.8063 ng/ml
Promethazine	5.535	21711	2874.66	29.9	101.13	18863	4.9671 ng/ml
Quetiapine	5.531	22990	289.83	60.1	594.47	66531	4.9446 ng/ml
Setraline	5.780	6245	1104.42	86.6	301.13	50588	5.0741 ng/ml
Temazepam	5.814	4480	264.74	27.6	12.12	39232	5.0706 ng/ml
Tramadol	4.242	36474	1568.25	3.8	27.37	350992	4.9276 ng/ml
Trazodone	5.086	17492	9425.67	75.4	349.24	148765	6.1659 ng/ml
Venlafaxine	5.040	30569	585.34	39.8	162.83	309068	5.9997 ng/ml
Zolpidem	4.855	33566	1148.91	31.1	2655.11	323735	4.9821 ng/ml

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AM #28 Multi-Drug Quant. Results

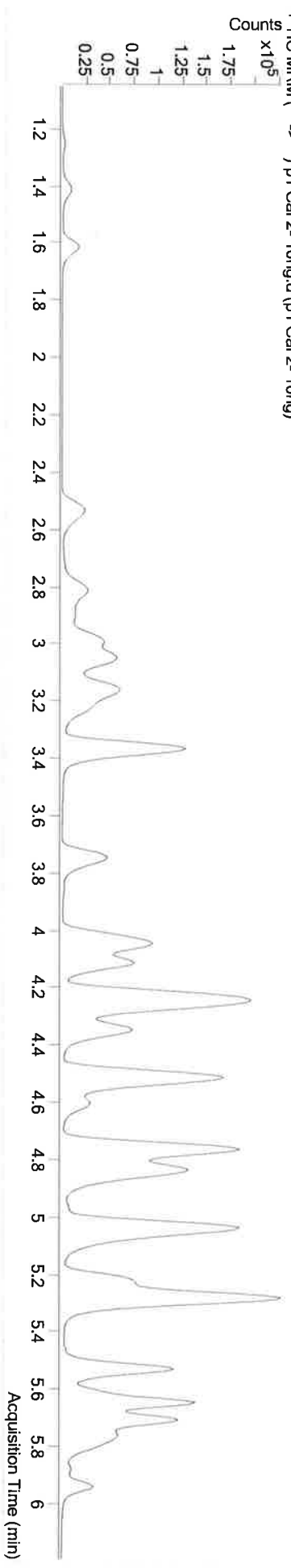


Batch results
 Calibration Last Update: 6/10/2019 9:31:49 AM
 D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk153414 TS_batch.bin

Instrument: Falco
Type: Cal
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-G12
Injection Volume: 1
Acq. Date-Time: 6/6/2019 11:02:10 AM
Sample Info.

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

Sample Chromatogram
 + TIC MRM (** -> *) p1 Cal 2- 10ng.d (p1 Cal 2- 10ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	1667	115.07	70.8	911.97	47484	0.9791 ng/ml
7-aminoclonazepam	4.253	9976	2037.99	84.9	1026.55	40959	9.4459 ng/ml
a-hydroxyalprazolam	5.689	2593	84.71	63.0	65.84	11770	10.2559 ng/ml
alpha-PVP	4.360	38241	1822.97	51.1	578.95	167300	9.7684 ng/ml
Alprazolam	5.766	17185	1119.81	100.6	447.87	51962	10.1754 ng/ml
Amphetamine	3.062	61245	303.48	56.4	581.11	74977	10.2424 ng/ml
Benzoylcegonine	3.876	1017	110.33	8.2	39.83	3635	9.0973 ng/ml
Buprenorphine	5.735	2925	76.42	19.9	30.02	121618	0.9992 ng/ml
Bupropion	4.782	134436	1929.19	58.4	1889.19	461756	10.2923 ng/ml
Carisoprodol	5.714	13710	30046.43	53.1	33.93	72151	9.7044 ng/ml
Citalopram	5.222	34069	573.78	42.4	8827.70	146681	10.3970 ng/ml
Clonazepam	5.602	1405	71.47	46.5 High	2143.51	2739	3.1225 ng/ml
Cocaine	4.259	34173	6085.37	43.2	3345.49	309590	10.4135 ng/ml
Codeine	2.583	4626	357.84	103.7	229.52	20912	10.2708 ng/ml
Cyclobenzaprine	5.618	18657	1875.90	11.3	791.46	75379	9.6147 ng/ml
Dextromethorphan	5.265	19504	838.04	80.8	1695.80	92631	9.7476 ng/ml
Dextorphan	4.122	14812	1950.05	206.6	2684.85	169782	10.4239 ng/ml
Diazepam	5.952	11865	331.73	87.3	184.23	52346	10.0194 ng/ml

TS

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	12756	∞	67.0	∞	65642	10.0479 ng/ml
Diphenhydramine	5.292	96565	1590.19	34.2	899.48	502825	10.4876 ng/ml
Doxylamine	4.529	99702	10179.20	97.6	9144.25	424955	10.4183 ng/ml
EDDP	5.257	2580	547.78	42.6	1929.73	15073	12.6385 ng/ml
Fentanyl	5.079	2347	202.10	66.0	3703.65	104164	1.0519 ng/ml
Fluoxetine	5.711	18247	2751.04	9.6	50.01	66651	9.9724 ng/ml
Hydrocodone	3.025	13783	637.19	37.8	37.58	80746	9.7031 ng/ml
Hydromorphone	1.628	11820	418.32	73.7	332.26	41121	9.9413 ng/ml
Ketamine	4.042	32536	2657.67	36.7	244.29	146364	9.8525 ng/ml
Lamotrigine	4.284	3746	314.67	80.3	564.38	146364	10.1200 ng/ml
Lorazepam	5.737	1689	22.11	67.2	6.87 Low	2739	9.5023 ng/ml
Meproramate	4.899	5298	602.72	26.3	177.21	24568	9.8217 ng/ml
Methadone	5.656	51300	1299.30	49.4	799.14	246894	10.3373 ng/ml
Methamphetamine	3.231	55457	144.04	40.7	210.35	201779	10.0399 ng/ml
Metoprolol	4.322	10545	1117.20	91.5	∞	372944	9.7382 ng/ml
Mirtazapine	4.610	55446	5463.54	47.1	3304.05	167300	10.1599 ng/ml
Miltargyline	5.214	8842	7576.71	37.6	3941.50	246894	9.0954 ng/ml
Morphine	1.260	3389	∞	24.3	853.59	4152	10.1567 ng/ml
Norbuprenorphine	4.988	391	33.50	97.5	79.51	14709	0.9198 ng/ml
Nordiazepam	5.891	2656	389.25	57.5	61.83	8530	9.5233 ng/ml
Norfentanyl	4.084	5023	226.94	35.9	144.78	208980	0.9774 ng/ml
Norhydrocodone	3.073	3226	94.43	42.4	69.89	92798	9.5886 ng/ml
Noroxycodone	2.921	8810	87.68	48.6	72.30	31071	9.9348 ng/ml
O-desmethyl-tramadol	3.379	78295	2312.83	7.1	429.05	352353	9.7244 ng/ml
Oxazepam	5.747	1501	20.19	61.1	3.94 Low	5748	12.7857 ng/ml
Oxycodone	2.840	24017	134.38	30.5	45.14	98005	9.8995 ng/ml
Oxymorphone	1.417	7231	283.50	46.3	84.67	26397	9.8231 ng/ml
Pentemterline	3.781	16739	235.96	3.6	11.11	162220	10.1575 ng/ml
Promethazine	5.535	36898	6979.62	29.2	679.91	151042	9.9448 ng/ml
Quetiapine	5.531	46044	719.48	59.2	31869.55	64650	9.9100 ng/ml
Setraline	5.780	8586	133.25	94.8	136.86	35214	9.5546 ng/ml
Temazepam	5.814	9418	53.34	37.1	6.85 Low	42130	9.5731 ng/ml
Tramadol	4.242	78237	3270.45	3.6	82.34	372944	9.9550 ng/ml
Trazodone	5.092	30892	275.17	77.6	3896.75	132598	10.2880 ng/ml
Venlafaxine	5.040	66033	1169.18	38.5	184.26	323735	10.4131 ng/ml
Zolpidem	4.862	72409	1320.33	31.4	8966.27	340291	9.8356 ng/ml

TS

AM #28 Multi-Drug Quant. Results

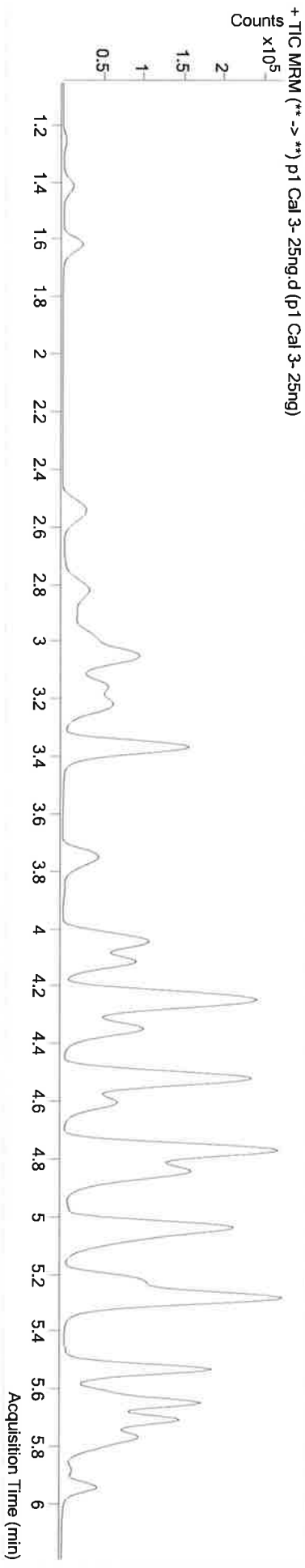


Batch results
 Calibration Last Update: 6/10/2019 9:31:49 AM
 D:\MassHunter\Data\2019\AM 28\060619 MDQ TS SP\QuantResults\MDQ wk1st3414 TS_batch.bin

Instrument Type: FALCO
Acq. Method: Cal
Sample Position: MDQ P1 Combined 011619.m
Injection Volume: P1-F12
Acq. Date-Time: 1
Sample Info: 6/6/2019 11:12:37 AM

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	3697	132.10	73.0	∞	36162	2.7314 ng/ml
7-aminoclonazepam	4.253	26151	215.60	83.1	806.96	36462	29.8030 ng/ml
a-hydroxyalprazolam	5.689	6340	82.09	63.5	247.49	10398	27.3982 ng/ml
alpha-PVP	4.360	100750	7595.83	51.1	10603.99	146878	28.0685 ng/ml
Alprazolam	5.766	45309	1038.70	102.5	930.87	45398	27.8130 ng/ml
Amphetamine	3.062	156946	137.53	56.8	24740.59	67734	29.9524 ng/ml
Benzoylcegonine	3.876	2828	175.44	7.1	42.51	3571	26.8438 ng/ml
Buprenorphine	5.735	6788	493.23	16.9	74.09	93687	2.7585 ng/ml
Bupropion	4.782	364798	41385.47	58.7	6234.95	414964	28.1404 ng/ml
Carisoprodol	5.714	36759	13363.73	53.7	159.58	61889	28.8864 ng/ml
Citalopram	5.222	84679	4365.12	42.3	33735.15	121278	28.1132 ng/ml
Clonazepam	5.602	4348	318.29	33.5	824.72	2186	27.4655 ng/ml
Cocaine	4.259	88702	10737.29	43.2	∞	272906	27.7974 ng/ml
Codeine	2.583	12287	578.63	102.6	538.80	18538	28.1879 ng/ml
Cyclobenzaprine	5.618	55521	150.77	10.5	393.71	73683	27.8385 ng/ml
Dextromethorphan	5.265	48094	1413.96	78.7	∞	75762	28.3874 ng/ml
Dextrophan	4.122	37797	8698.03	205.8	17839.53	147187	27.5058 ng/ml
Diazepam	5.952	30242	1641.98	87.8	582.16	45991	28.1283 ng/ml

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AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	33160	13502.81	66.8	8502.70	58703	29.0629 ng/ml
Diphenhydramine	5.292	238975	14294.85	34.0	7796.79	419247	27.6351 ng/ml
Doxylamine	4.529	256876	23213.29	97.3	2346.97	372221	27.5958 ng/ml
EDDP	5.257	14620	374.81	42.0	8081.94	28008	27.8090 ng/ml
Fentanyl	5.079	5397	∞	83.5	∞	93228	2.6413 ng/ml
Fluoxetine	5.711	57048	3343.30	10.4	5780.67	73574	27.3168 ng/ml
Hydrocodone	3.025	36198	757.57	39.7	148.29	69877	28.7998 ng/ml
Hydromorphone	1.628	30084	470.40	75.6	599.35	36965	27.6174 ng/ml
Ketamine	4.042	84904	1096.77	37.6	524.63	129972	28.4728 ng/ml
Lamotrigine	4.284	9375	311.55	80.6	475.70	129972	29.6175 ng/ml
Lorazepam	5.737	4266	368.31	67.2	∞	2186	28.8298 ng/ml
Meperbamate	4.899	13410	2247.79	28.9	∞	21798	26.8800 ng/ml
Methadone	5.656	126857	753.32	50.0	1470.33	203681	27.8360 ng/ml
Methamphetamine	3.231	144103	330.31	41.6	1509.40	183057	29.5127 ng/ml
Metoprolol	4.322	26787	4564.36	92.4	∞	330895	29.9622 ng/ml
Mirtazapine	4.610	136861	6498.81	47.7	20494.23	146878	28.6992 ng/ml
Mitragynine	5.208	23911	34068.29	37.7	∞	203681	29.5140 ng/ml
Morphine	1.260	8516	23077.44	25.4	∞	3672	28.0417 ng/ml
Norbuprenorphine	4.982	877	64.91	97.6	251.02	12320	2.6402 ng/ml
Nordiazepam	5.891	6746	672.88	62.5	431.85	7211	26.9678 ng/ml
Norfentanyl	4.084	13409	2116.52	36.7	198.48	190614	2.7443 ng/ml
Norhydrocodone	3.073	9387	161.23	41.1	266.43	85435	26.3985 ng/ml
Noroxycodone	2.921	23209	97.22	47.6	175.40	27457	28.6837 ng/ml
O-desmethyl-tramadol	3.379	207487	∞	6.6	2147.21	313248	28.0018 ng/ml
Oxazepam	5.747	4233	57.21	56.6	5.98 Low	5013	32.4814 ng/ml
Oxycodone	2.833	61897	399.98	29.8	385.74	86294	28.6181 ng/ml
Oxymorphone	1.417	18035	532.64	48.4	284.33	23056	28.0089 ng/ml
Promethazine	3.781	42723	376.64	3.7	30.12	143138	29.8137 ng/ml
Quetiapine	5.535	102164	20464.55	29.4	299.80	142246	28.1855 ng/ml
Setraline	5.531	114829	2277.47	59.8	∞	55401	28.3356 ng/ml
Temazepam	5.780	29449	340.64	92.0	850.33	39694	28.0897 ng/ml
Tramadol	5.814	24994	354.46	30.9	32.52	36931	28.2309 ng/ml
Trazodone	4.242	199826	9277.25	3.6	252.75	330895	28.6711 ng/ml
Venlafaxine	5.092	80215	1765.93	78.0	∞	116130	26.6405 ng/ml
Zolpidem	5.040	171903	∞	39.5	763.15	279256	27.7023 ng/ml
	4.855	187475	1407.70	31.8	5110.47	301188	28.0602 ng/ml

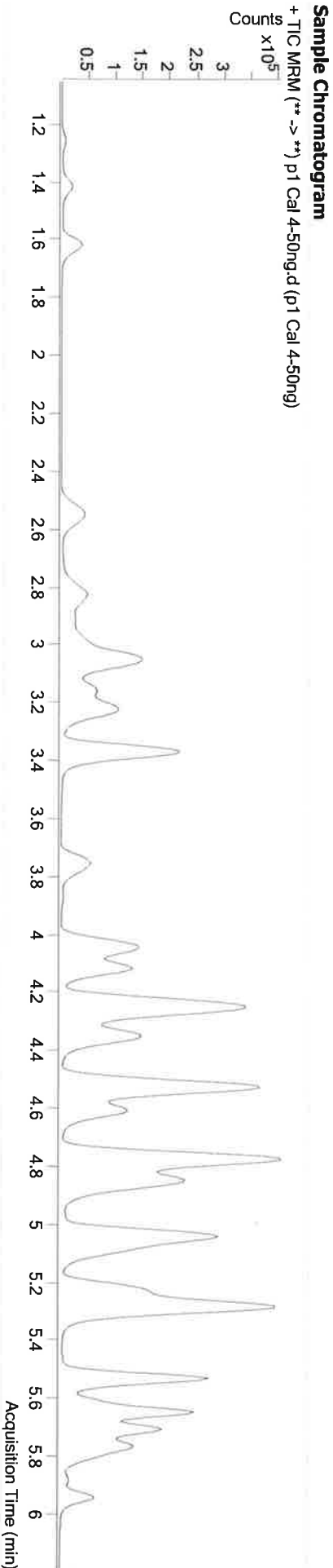
AM #28 Multi-Drug Quant. Results



Batch results
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Instrument: Falco
Type: Cal
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-E12
Injection Volume: 1
Acq. Date-Time: 6/6/2019 11:23:05 AM
Sample Info.

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	7356	316.03	70.6	534.15	43150	4.5124 ng/ml
7-amriodonezepam	4.253	48040	222.79	81.2	5986.34	40658	49.7597 ng/ml
a-hydroxyalprazolam	5.689	11423	337.86	68.8	262.52	11868	42.9252 ng/ml
alpha-PVP	4.366	183073	1731.73	51.7	1207.00	165553	44.8688 ng/ml
Alprazolam	5.766	80669	4985.76	105.8	1225.49	50180	43.9232 ng/ml
Amphetamine	3.062	279820	2608.12	56.4	4800.26	73957	49.2185 ng/ml
Benzoylcegonine	3.876	5356	1002.28	7.5	42.88	3972	46.1167 ng/ml
Buprenorphine	5.735	12580	∞	16.3	219.31	107764	4.3678 ng/ml
Bupropion	4.782	655438	75088.15	58.4	7893.52	464470	44.2909 ng/ml
Carisoprodol	5.714	64963	702.46	55.7	582.56	69006	45.3873 ng/ml
Citalopram	5.222	152810	3086.99	43.0	453.05	138912	43.3908 ng/ml
Clonazepam	5.602	7420	576.66	34.8	1432.95	2643	40.9508 ng/ml
Cocaine	4.266	162048	11731.65	43.3	1155.89	312129	43.5207 ng/ml
Codeine	2.583	22291	1069.93	102.9	10919.45	20952	44.4607 ng/ml
Cyclobenzaprine	5.618	90473	19479.09	10.3	375.79	74233	44.5956 ng/ml
Dextromethorphan	5.265	87391	1233.87	78.6	755.45	86564	44.8522 ng/ml
Dextropropriphan	4.122	71218	2454.85	206.9	12389.28	168026	44.3365 ng/ml
Diazepam	5.952	55718	4563.00	86.2	950.13	51154	46.2684 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	60442	9078.19	67.1	17330.48	66003	47.0681 ng/ml
Diphenhydramine	5.292	436737	18843.08	34.2	339.76	472415	43.7165 ng/ml
Doxylamine	4.529	473298	77980.24	98.5	28636.45	419939	44.0738 ng/ml
EDDP	5.257	49109	556.21	41.4	17799.59	56850	42.5919 ng/ml
Fentanyl	5.086	9515	2414.78	76.6	2311.95	99575	4.3338 ng/ml
Fluoxetine	5.711	90308	817.58	9.3	7844.14	69190	45.6367 ng/ml
Hydrocodone	3.025	64727	∞	39.9	190.05	78627	45.5799 ng/ml
Hydromorphone	1.628	54541	775.35	76.0	1040.55	41205	44.7354 ng/ml
Ketamine	4.042	152473	4007.01	37.7	1016.82	145173	45.6279 ng/ml
Lamotrigine	4.290	17072	∞	78.7	523.61	145173	48.6644 ng/ml
Lorazepam	5.737	8631	208.15	52.2	7.47 Low	2643	47.8593 ng/ml
Meperbamate	4.906	24989	3299.06	28.3	143.35	24551	44.0734 ng/ml
Methadone	5.656	230457	3601.33	50.2	1880.49	233320	43.2208 ng/ml
Methamphetamine	3.231	263799	∞	41.2	1162.97	207828	47.8358 ng/ml
Metoprolol	4.329	49593	28319.77	91.1	∞	371752	50.0991 ng/ml
Mirtazapine	4.610	251237	1692.01	47.8	1325.17	165553	46.7872 ng/ml
Mitragynine	5.214	41164	634.86	37.8	1133.96	233320	44.2894 ng/ml
Morphine	1.266	15723	43933.88	23.6	1464.01	4033	46.8350 ng/ml
Norduprenorphine	4.988	1803	∞	91.5	673.54	14531	4.6808 ng/ml
Nordiazepam	5.891	13349	744.13	54.9	1882.52	7803	48.6357 ng/ml
Norfentanyl	4.084	24977	18068.84	37.6	500.81	221527	4.3620 ng/ml
Northydrocodone	3.073	18720	295.84	42.2	244.18	97848	44.6269 ng/ml
Noroxycodone	2.921	41928	121.33	47.6	189.74	31344	45.1185 ng/ml
O-desmethyl-tramadol	3.379	378684	21236.62	6.7	1895.13	352140	45.1513 ng/ml
Oxazepam	5.747	6836	68.42	71.3	10.34	5584	45.3011 ng/ml
Oxycodone	2.840	109106	2851.32	32.0	81.73	94605	45.9004 ng/ml
Oxymorphone	1.417	32629	758.25	47.2	355.45	25123	46.4904 ng/ml
Pentemurine	3.787	77109	886.89	3.5	66.13	160921	48.0013 ng/ml
Promethazine	5.542	166344	∞	28.7	679.35	145858	44.4365 ng/ml
Quetiapine	5.531	211359	1931.65	59.9	1855.00	61699	46.6595 ng/ml
Sertraline	5.780	43318	1779.70	95.0	∞	36595	44.5322 ng/ml
Temazepam	5.814	44266	425.11	30.0	20.44	42098	43.6564 ng/ml
Tramadol	4.242	363386	45154.36	3.5	227.46	371752	46.4130 ng/ml
Trazodone	5.092	141925	577.91	77.4	294.50	125719	42.2932 ng/ml
Venlafaxine	5.040	316141	1115.01	39.6	∞	320569	43.2696 ng/ml
Zolpidem	4.862	345011	3478.71	32.0	18481.69	337189	45.8880 ng/ml



AM #28 Multi-Drug Quant. Results

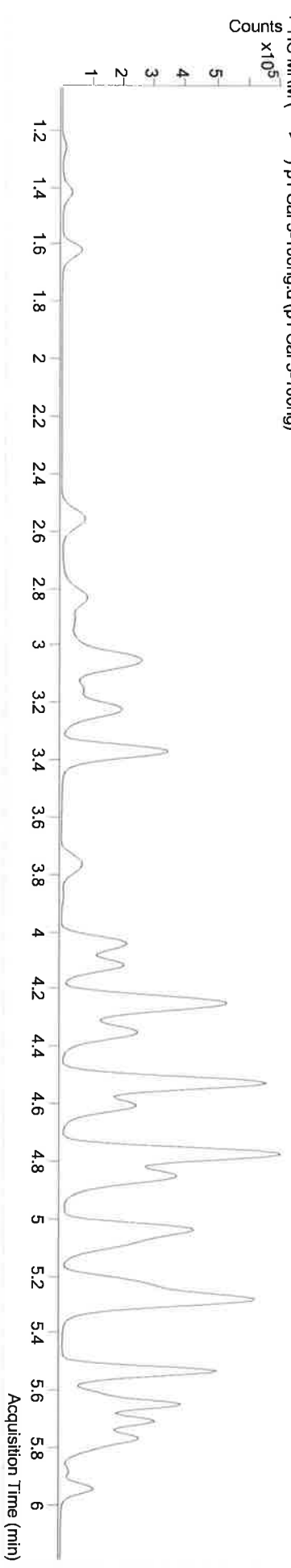
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6/10/2019 9:31:49 AM

Instrument Type Falco
Acq. Method Cal
Sample Position MDQ P1 Combined 011619.m
Injection Volume P1-D12
Acq. Date-Time 6/6/2019 11:33:34 AM
Sample Info. 1

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

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 5-100ng.d (p1 Cal 5-100ng)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	14060	734.82	72.3	762.37	41766	8.8495 ng/ml
7-aminoclonazepam	4.253	94857	7347.31	81.9	197.72	39895	101.1686 ng/ml
a-hydroxyalprazolam	5.689	24554	308.04	61.4	181.92	11676	93.1259 ng/ml
alpha-PVP	4.366	374898	40215.29	51.2	4238.41	168134	89.8398 ng/ml
Alprazolam	5.766	163850	3035.16	105.6	921.85	50109	87.8574 ng/ml
Amphetamine	3.062	537202	3348.60	56.7	13143.99	72927	96.2877 ng/ml
Benzoylcegonine	3.876	10758	1613.78	7.9	155.10	3922	94.4452 ng/ml
Buprenorphine	5.735	24830	546.48	16.6	104.06	104550	8.7567 ng/ml
Bupropion	4.782	1325962	∞	58.1	47390.78	465073	88.0012 ng/ml
Carisoprodol	5.714	134643	146146.64	54.2	264.82	69533	92.6375 ng/ml
Citalopram	5.222	300685	2024.02	43.5	74102.75	130976	88.8520 ng/ml
Clonazepam	5.602	15548	158.72	34.0	385.03	2540	95.5979 ng/ml
Cocaine	4.266	326386	65642.43	43.3	7597.11	307144	87.5363 ng/ml
Codeine	2.583	44944	1927.51	102.0	10777.72	20987	88.1814 ng/ml
Cyclobenzaprine	5.618	203469	206848.42	10.2	682.22	82391	89.6430 ng/ml
Dextromethorphan	5.265	169111	11747.93	79.6	8891.26	81284	91.9049 ng/ml
Dextroproprian	4.122	142691	3940.07	206.9	2219.13	168504	86.9490 ng/ml
Diazepam	5.952	115252	893.81	85.4	2104.51	52975	91.9232 ng/ml

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AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	123183	23332.11	67.4	89958.63	66700	94.8476 ng/ml
Diphenhydramine	5.292	848374	39742.22	33.8	47181.86	453841	86.5819 ng/ml
Doxylamine	4.529	977036	39412.11	98.3	1461.79	428309	87.5961 ng/ml
EDDP	5.257	197327	15633.12	42.4	1256.19	105274	86.2927 ng/ml
Fentanyl	5.079	20906	3911.47	78.1	678.75	104763	9.0069 ng/ml
Fluoxetine	5.711	233016	∞	9.6	3168.61	87515	92.5710 ng/ml
Hydrocodone	3.025	137221	∞	38.8	159.35	80803	93.6889 ng/ml
Hydromorphone	1.628	111869	1248.31	75.1	1263.79	41622	90.5395 ng/ml
Ketamine	4.042	318213	3430.16	37.5	2270.54	148251	92.9898 ng/ml
Lamotrigine	4.290	34444	1488.96	77.9	891.62	148251	96.7371 ng/ml
Lorazepam	5.737	17206	501.82	57.1	27.94	2540	98.6677 ng/ml
Meprbamate	4.906	50281	40808.85	28.4	∞	24849	87.0092 ng/ml
Methadone	5.656	460873	32732.86	49.1	2293.14	224918	87.9682 ng/ml
Methamphetamine	3.231	521619	2246.11	41.1	1389.25	204412	96.5778 ng/ml
Metoprolol	4.329	98424	∞	93.3	∞	381941	97.8168 ng/ml
Mirtazapine	4.610	504057	67764.43	47.7	18238.20	168134	92.5006 ng/ml
Mitragynine	5.214	88421	1502.65	38.8	∞	224918	98.5254 ng/ml
Morphine	1.260	31323	9863.89	25.1	950.64	3996	93.7239 ng/ml
Norbuprenorphine	4.988	3314	∞	94.5	691.47	13870	9.1127 ng/ml
Nordiazepam	5.891	26874	5823.20	58.6	1352.58	8241	91.9686 ng/ml
Norfentanyl	4.084	52830	8863.51	36.3	832.04	222991	9.0993 ng/ml
Northydrocodone	3.073	44779	816.78	43.2	270.35	105497	96.8053 ng/ml
Noroxycodone	2.921	86431	319.26	47.2	166.83	31462	92.1618 ng/ml
O-desmethyl-tramadol	3.379	784307	55776.79	6.6	1774.18	361211	90.6592 ng/ml
Oxazepam	5.747	14924	103.39	69.8	265.84	5815	90.6216 ng/ml
Oxycodone	2.840	237599	∞	30.6	∞	100650	93.7600 ng/ml
Oxymorphone	1.417	68579	1256.95	45.3	492.20	26126	93.9410 ng/ml
Phentermine	3.787	152194	2695.49	3.6	∞	159424	95.8595 ng/ml
Promethazine	5.542	378949	339185.99	28.7	4075.25	161293	90.9681 ng/ml
Quetiapine	5.531	431618	7428.72	57.8	2827289.4	62797	93.3517 ng/ml
Sertraline	5.780	113065	817.97	93.0	31853.31	47821	88.4701 ng/ml
Temazepam	5.814	91859	777.22	31.5	200.88	42866	88.5856 ng/ml
Tramadol	4.242	729623	47077.72	3.6	∞	381941	90.7111 ng/ml
Trazodone	5.092	303549	2701.71	76.7	1446.56	128474	86.3686 ng/ml
Venlafaxine	5.040	639616	∞	39.5	1602.22	321048	85.5301 ng/ml
Zolpidem	4.862	717676	67130.97	32.0	3089.12	344703	92.9910 ng/ml



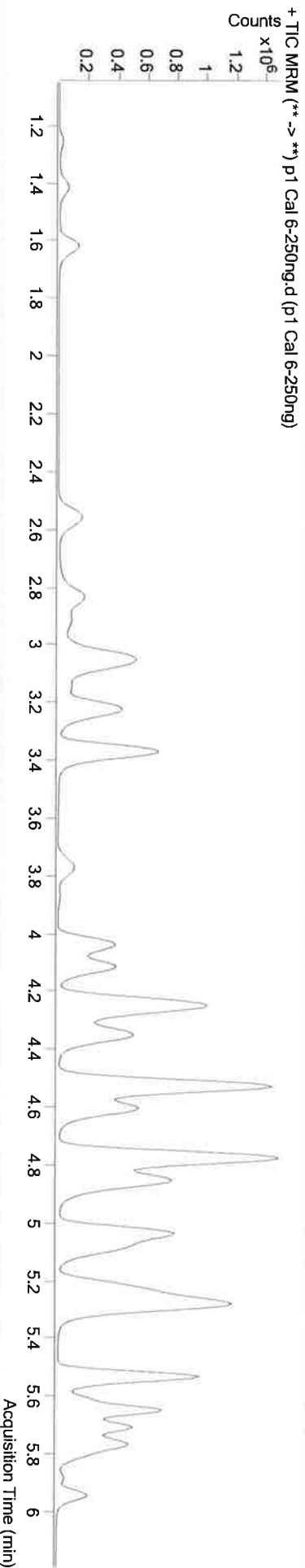
AM #28 Multi-Drug Quant. Results

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6/10/2019 9:31:49 AM

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Acq. Method Cal
Sample Position MDQ P1 Combined 011619.m
Injection Volume P1-C12
Acq. Date-Time 1
Sample Info. 6/6/2019 11:44:04 AM

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	32403	345.52	72.2	1446.23	38170	22.2203 ng/ml
7-aminoclonazepam	4.253	206415	∞	81.9	37943.93	36921	239.2650 ng/ml
a-hydroxyalprazolam	5.689	58141	445.44	63.7	420.99	11689	219.5149 ng/ml
alpha-PVP	4.360	886100	58870.92	51.5	28170.57	160728	221.2098 ng/ml
Alprazolam	5.766	376493	1454.42	104.1	1469.56	46422	215.7892 ng/ml
Amphetamine	3.062	1144592	8708.77	57.0	79905.37	68096	220.3397 ng/ml
Benzoylcegonine	3.876	25564	60683.98	7.7	657.27	3972	222.3703 ng/ml
Buprenorphine	5.735	47995	1628.45	16.9	∞	83722	20.9599 ng/ml
Bupropion	4.782	3073087	466250.69	57.8	32508.04	440970	213.0012 ng/ml
Carisoprodol	5.714	298755	2399.98	55.3	211.44	63804	223.0402 ng/ml
Citalopram	5.222	641025	26651.54	43.6	4220.80	116199	211.3138 ng/ml
Clonazepam	5.602	38103	1930.46	34.1	11261.27	2584	237.7889 ng/ml
Cocaine	4.259	760683	∞	42.8	666.14	291776	212.6172 ng/ml
Codine	2.583	102878	1094.60	102.7	1512.06	19468	215.7061 ng/ml
Cyclobenzaprine	5.618	414265	14226.59	10.7	1196.09	67026	223.3036 ng/ml
Dextromethorphan	5.265	348211	20309.19	79.8	834.11	69266	221.3697 ng/ml
Diazepam	4.122	335293	48251.10	204.9	389984.29	160282	212.3886 ng/ml
	5.952	260499	1398.16	86.8	∞	49338	222.3817 ng/ml

TS

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	285204	84942.63	67.5	32224.40	65280	224.2738 ng/ml
Diphenhydramine	5.292	1845381	59872.02	33.9	1119.92	403216	209.4076 ng/ml
Doxylamine	4.529	2316886	123929.34	98.3	122823.81	416131	211.5367 ng/ml
EDDP	5.257	680428	26548.38	42.4	1003.29	145337	207.6895 ng/ml
Fentanyl	5.079	42724	∞	78.0	46104.68	86735	22.1752 ng/ml
Fluoxetine	5.711	455483	812.53	9.4	172.76	69969	225.5948 ng/ml
Hydrocodone	3.025	309976	∞	40.2	352.32	76150	224.1257 ng/ml
Hydromorphone	1.628	262354	628.74	77.2	3232.56	39667	222.3750 ng/ml
Ketamine	4.042	746470	2677.87	37.8	3289.88	144059	224.1347 ng/ml
Lamotrigine	4.284	77330	2422.17	79.1	1281.74	144059	224.2949 ng/ml
Lorazepam	5.737	41597	∞	58.3	124.38	2584	233.6704 ng/ml
Meproramate	4.906	123610	10654.34	28.4	445.49	24134	219.3041 ng/ml
Methadone	5.650	990599	2030.52	48.8	4766.57	194190	216.6485 ng/ml
Methamphetamine	3.231	1171712	1656.34	42.2	6689.85	198788	223.6113 ng/ml
Metoprolol	4.322	221239	87394.69	92.1	∞	356999	236.8059 ng/ml
Mirtazapine	4.610	1135124	1424.20	47.3	52164.40	160728	218.0071 ng/ml
Mirtazapine	5.208	196545	12298.50	38.8	2118.06	194190	253.4505 ng/ml
Morphine	1.260	72876	87112.57	23.7	7420.74	3932	220.9521 ng/ml
Norbuprenorphine	4.988	7207	785.88	93.2	2110.04	12678	21.8256 ng/ml
Nordiazepam	5.891	62920	∞	57.7	1518.70	7994	220.8073 ng/ml
Norfentanyl	4.084	125703	3055.66	36.7	1481.37	218155	22.0440 ng/ml
Norhydrocodone	3.073	126854	4323.07	41.9	1832.79	103452	276.2453 ng/ml
Noroxycodone	2.921	205027	270.15	45.4	∞	30004	228.5407 ng/ml
O-desmethyl-tramadol	3.379	1881334	26066.95	6.6	1069.40	353101	221.7374 ng/ml
Oxazepam	5.747	34467	183.09	64.0	326.84	5875	202.0253 ng/ml
Oxycodone	2.833	551948	246.98	31.6	∞	98791	221.6518 ng/ml
Oxymorphone	1.417	157687	4676.77	46.4	∞	25220	223.7286 ng/ml
Phentermine	3.781	335514	5668.37	3.6	373.95	148598	227.0308 ng/ml
Promethazine	5.535	766333	36872.77	28.4	1864.63	131104	225.5148 ng/ml
Quetiapine	5.531	934847	4595.31	59.9	7640.63	56936	222.6381 ng/ml
Setraline	5.780	213976	8137.04	91.4	13224.91	37008	215.6516 ng/ml
Temazepam	5.814	217756	1053.84	30.4	1061.94	40164	223.5572 ng/ml
Tramadol	4.242	1691508	60880.45	3.6	1560.48	356999	225.0023 ng/ml
Trazodone	5.092	665794	1352.00	76.3	1046.78	112605	213.1813 ng/ml
Venlafaxine	5.040	1511351	18546.71	39.0	3931.74	300652	212.9989 ng/ml
Zolpidem	4.862	1696719	264990.92	31.9	99737.32	341702	221.2671 ng/ml

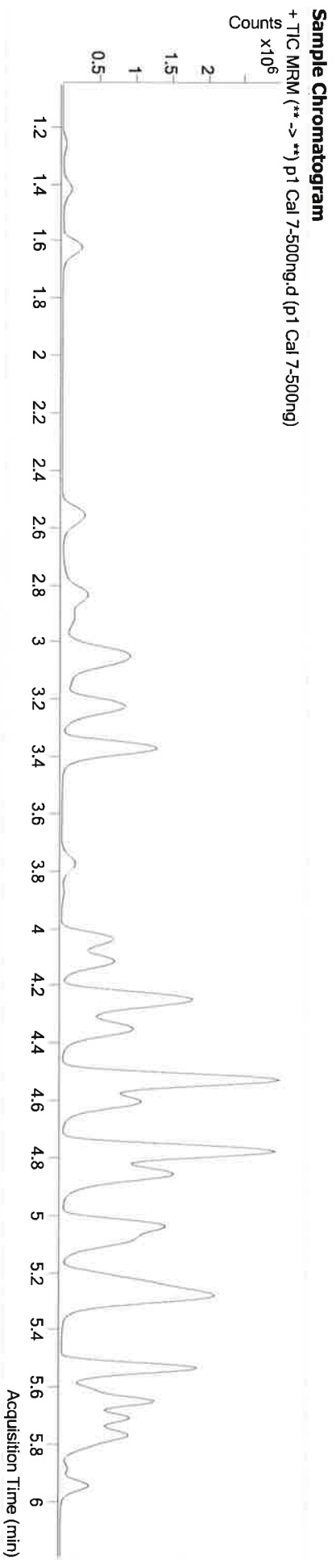


AM #28 Multi-Drug Quant. Results

Batch results
 Calibration Last Update: 6/10/2019 9:31:49 AM
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Instrument: FALCO
Type: Cal
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-812
Injection Volume: 1
Acq. Date-Time: 6/6/2019 11:54:32 AM
Sample Info.

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	66787	∞	72.3	8459.30	31392	55.5920 ng/ml
7-aminoclonazepam	4.253	360960	53240.50	81.8	801.14	27860	555.8345 ng/ml
a-hydroxyalprazolam	5.689	123729	1798.53	62.6	1131.99	9662	564.2463 ng/ml
alpha-PVP	4.360	1857890	105150.97	51.1	2569.25	132803	560.3817 ng/ml
Alprazolam	5.766	736184	4434.72	105.9	1941.42	36724	531.2578 ng/ml
Amphetamine	3.062	2094536	26098.21	56.7	46909.36	55260	497.4779 ng/ml
Benzoylcegonine	3.876	58256	1860.10	7.5	620.80	3669	549.4651 ng/ml
Buprenorphine	5.735	83315	182.82	16.9	3235.05	57906	52.4176 ng/ml
Bupropion	4.782	6228094	∞	58.6	154069.65	364583	520.0144 ng/ml
Carisoprodol	5.721	567927	325606.38	56.1	9154.81	49821	542.0182 ng/ml
Citalopram	5.222	1172434	73925.97	43.6	533572.90	85316	524.0610 ng/ml
Clonazepam	5.602	83365	4892.95	35.2	1898.40	2400	567.5834 ng/ml
Cocaine	4.266	1543037	107788.40	42.7	∞	236413	530.0758 ng/ml
Codeine	2.583	208902	3683.28	101.7	21542.68	15773	538.6709 ng/ml
Cyclobenzaprine	5.618	932579	1514.86	10.4	296.04	59679	563.5017 ng/ml
Dextromethorphan	5.265	663829	33482.90	78.8	72362.35	52117	560.1161 ng/ml
Dextropropofol	4.122	677310	79756.18	206.5	245317.73	130293	525.3592 ng/ml
Diazepam	5.952	523841	6273.86	87.5	1525.19	39960	551.4003 ng/ml

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AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	590689	458702.29	67.0	61483.69	56564	535.9638 ng/ml
Diphenhydramine	5.292	3461107	141347.42	34.1	58629.73	303196	519.6677 ng/ml
Doxylamine	4.529	4977402	596012.69	98.0	349445.97	361054	521.4538 ng/ml
EDDP	5.257	1719150	144094.97	42.6	769535.46	144337	520.2927 ng/ml
Fentanyl	5.079	94439	10730.10	78.6	81928.98	74954	56.6594 ng/ml
Fluoxetine	5.711	1019516	2356.71	9.9	52504.89	65079	542.1839 ng/ml
Hydrocodone	3.025	661171	278.10	41.1	∞	67357	540.0138 ng/ml
Hydromorphone	1.628	564233	2366.59	73.2	1406.88	33041	573.7027 ng/ml
Ketamine	4.042	1565208	11022.68	38.1	5488.72	123560	547.5784 ng/ml
Lamotrigine	4.284	147941	8999.50	78.6	11590.91	123560	501.0315 ng/ml
Lorazepam	5.737	89546	1305.69	54.4	191.46	2400	541.0318 ng/ml
Meperbamate	4.906	258528	457.71	27.9	1126.00	19600	563.7993 ng/ml
Methadone	5.656	1915965	5292.38	50.0	45023.08	154997	522.7422 ng/ml
Methamphetamine	3.231	2430839	25478.78	41.6	19487.73	172393	535.4983 ng/ml
Metoprolol	4.322	424091	∞	90.9	∞	294135	552.4280 ng/ml
Mirtazapine	4.610	2283374	103683.31	47.4	122300.26	132803	530.8535 ng/ml
Mitragynine	5.214	407908	770216.33	39.9	54011.40	154997	658.8059 ng/ml
Morphine	1.260	138167	1076.78	24.4	1160.08	3048	539.8450 ng/ml
Norbuprenorphine	4.988	13794	1392.85	98.3	9598.77	10006	53.0838 ng/ml
Nordiazepam	5.891	133042	5156.21	58.2	9539.62	7086	525.5823 ng/ml
Norfentanyl	4.084	267833	25448.83	36.6	5035.50	183727	55.6773 ng/ml
Norhydrocodone	3.073	276470	∞	43.6	∞	86994	713.0757 ng/ml
Noroxycodone	2.921	418437	∞	47.3	∞	25554	546.9979 ng/ml
O-desmethyl-tramadol	3.379	4023533	73356.72	6.6	2245.81	299351	558.6126 ng/ml
Oxazepam	5.747	73822	708.95	68.4	128.81	4776	525.8339 ng/ml
Oxycodone	2.833	1185938	311.62	30.2	647.44	86531	543.4588 ng/ml
Oxymorphone	1.417	322421	1368.42	46.9	870.89	21775	529.8188 ng/ml
Phentermine	3.781	633873	4085.71	3.6	304.30	121608	524.4150 ng/ml
Promethazine	5.542	1706512	7550.38	28.9	17018.53	118582	554.4260 ng/ml
Quetiapine	5.531	1857032	10558.57	59.2	3597.64	46262	543.9148 ng/ml
Sertraline	5.780	467838	8112.45	92.4	33938.91	29860	583.5630 ng/ml
Temazepam	5.814	463589	1038.85	30.5	984.22	33806	564.8853 ng/ml
Tramadol	4.242	3411144	210193.74	3.7	1296.89	294135	550.7330 ng/ml
Trazodone	5.092	1470636	2535.29	76.8	185233.16	94983	555.0625 ng/ml
Venlafaxine	5.040	3091072	89203.49	40.1	40743.39	248719	523.8785 ng/ml
Zolpidem	4.862	3674743	276729.35	32.0	70763.41	295945	552.7566 ng/ml

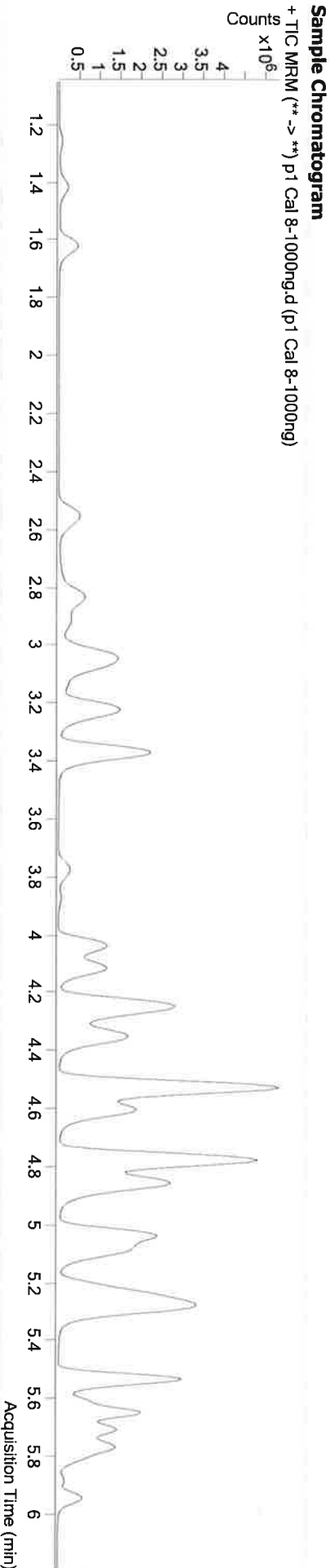


AM #28 Multi-Drug Quant. Results

Batch results
 Calibration Last Update: 6/10/2019 9:31:49 AM
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Instrument: Falco
Type: Cal
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-A12
Injection Volume: 1
Acq. Date-Time: 6/6/2019 12:05:01 PM
Sample Info.

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



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	159721	4051.47	72.2	1772.48	36836	113.2354 ng/ml
7-aminoclonazepam	4.247	502626	22044.72	81.7	37982.30	22702	950.5375 ng/ml
a-hydroxylprazolam	5.682	223705	6626.34	64.1	1121.02	8990	1095.8874 ng/ml
alpha-PVP	4.360	3351751	203356.34	51.0	82076.71	122427	1096.0540 ng/ml
Alprazolam	5.766	1214822	3211.75	105.0	2080.33	31605	1017.3345 ng/ml
Amphetamine	3.055	3070877	13911.87	60.5	53161.47	49436	815.6195 ng/ml
Benzoyllecgonine	3.876	125579	2184.65	7.4	412.20	3883	1119.7721 ng/ml
Buprenorphine	5.735	111765	459.46	16.3	717.78	39437	103.1252 ng/ml
Bupropion	4.782	10573234	637050.94	58.1	86498.30	311906	1030.4756 ng/ml
Carisoprodol	5.714	943349	958.64	55.4	1016.86	42044	1066.2061 ng/ml
Citalopram	5.222	1806925	32935.24	42.5	45839.59	66926	1028.0823 ng/ml
Clonazepam	5.602	159999	6695.18	33.9	32678.20	2524	1040.0605 ng/ml
Cocaine	4.266	2612995	234615.08	42.8	∞	207326	1022.1983 ng/ml
Codeine	2.583	356774	1563.52	101.6	2075.50	14366	1008.8957 ng/ml
Cyclobenzaprine	5.618	1546275	1300.79	10.2	2225.08	50497	1103.5414 ng/ml
Dextromethorphan	5.265	982997	69319.04	79.8	43799.68	40483	1067.3249 ng/ml
Dextroproprian	4.122	1154293	94764.29	205.9	122209.56	113397	1027.1684 ng/ml
Diazepam	5.952	877211	13161.83	87.0	10856.67	35140	1049.5589 ng/ml



AM #28 Multi-Drug Quant. Results

TS

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.547	1047057	68369.73	67.3	31701.11	53792	998.9452 ng/ml
Diphenhydramine	5.292	5466615	86690.70	34.1	46139.31	239675	1036.5427 ng/ml
Doxylamine	4.529	9186322	216319.46	96.5	387098.12	336382	1031.4434 ng/ml
EDDP	5.257	3520977	2528.96	43.2	15023.47	147473	1037.6857 ng/ml
Fentanyl	5.079	155278	1789.25	80.6	∞	62179	112.2610 ng/ml
Fluoxetine	5.711	1559131	27789.06	9.6	191294.75	49530	1088.9476 ng/ml
Hydrocodone	3.018	1194262	419.04	40.6	∞	62244	1055.2437 ng/ml
Hydromorphone	1.628	1001937	3643.06	74.8	∞	31554	1066.5076 ng/ml
Ketamine	4.042	2812482	299587.16	38.1	11266.75	115873	1048.9731 ng/ml
Lamotrigine	4.290	226237	2817.34	78.4	29160.42	115873	817.4007 ng/ml
Lorazepam	5.737	163013	5221.30	58.0	625.01	2524	935.9716 ng/ml
Meproramate	4.906	469626	799.62	28.4	5085.23	17093	1173.7204 ng/ml
Methadone	5.656	3154738	13767.50	49.4	91871.30	129913	1025.3906 ng/ml
Methamphetamine	3.231	4222621	19059.60	41.6	17287.54	167447	958.0130 ng/ml
Metoprolol	4.322	664599	206210.25	91.1	∞	265761	958.9674 ng/ml
Mirtazapine	4.610	3996006	445267.02	47.5	115207.96	122427	1007.8238 ng/ml
Mitragynine	5.214	686377	47326.15	39.0	8393.74	129913	1322.4663 ng/ml
Morphine	1.260	234701	63864.76	24.2	18545.40	2669	1046.6296 ng/ml
Norbuprenorphine	4.988	22831	1019.54	97.1	604.37	8702	101.1217 ng/ml
Nordiazepam	5.891	241598	9018.55	58.3	4120.56	6001	1126.1325 ng/ml
Norfentanyl	4.084	485777	4632.80	36.6	10982.76	162994	113.7662 ng/ml
Norhydrocodone	3.073	531037	2000.55	42.3	1195.10	76143	1562.6972 ng/ml
Noroxycodone	2.915	752806	∞	46.7	∞	24194	1038.9723 ng/ml
O-desmethyl-tramadol	3.379	7321657	389290.22	6.7	19521.12	279324	1088.9203 ng/ml
Oxazepam	5.747	140472	1356.42	69.9	313.82	4628	1028.7367 ng/ml
Oxycodone	2.833	2244153	388.75	31.7	263.76	84927	1047.6336 ng/ml
Oxymorphone	1.417	603452	1816.15	47.5	1144.96	20036	1077.6228 ng/ml
Phentermine	3.781	1036252	∞	3.6	∞	109205	954.8710 ng/ml
Promethazine	5.542	2783498	5882.73	29.3	2166.63	99674	1075.3650 ng/ml
Quetiapine	5.531	3089739	3745.21	60.4	3158.42	40186	1041.5610 ng/ml
Setraline	5.780	655274	9135.18	91.3	38329.30	22158	1101.0496 ng/ml
Temazepam	5.814	840734	3087.48	30.1	1351.86	31013	1116.3418 ng/ml
Tramadol	4.242	5793871	244106.69	3.6	7173.91	265761	1035.3040 ng/ml
Trazodone	5.092	2679542	∞	78.3	43279.49	82492	1162.3308 ng/ml
Venlafaxine	5.040	5531061	∞	39.2	8101.55	225923	1030.2078 ng/ml
Zolpidem	4.862	6777546	∞	31.8	98657.98	284713	1059.3626 ng/ml