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Worklist: 3238

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2019-1171	2	147644	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1176	1	147645	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1297	1	147646	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
M2019-1311	1	147647	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0788	1	147648	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0803	1	147666	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0873	3	147649	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0891	1	147650	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0895	1	147651	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0960	1	147652	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0961	1	147653	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0980	1	147654	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0986	1	147655	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QC	
P2019-0998	1	147656	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: 04/09/19

Analyst: Tamara Salazar

Plate lot#: IDP-111-19024 190124 TS

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: 445283-1

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

LCMS-QQQ ID: 069910

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

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: 16** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 00.5M 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: *G:\TOX\Pocatello\Falco\2019\AM 28\040919 MDQ P1 and P2 TS*
Batch Name: *P1 wklst 3238 TS*
- 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:

Curves limited: Curves limited: 7-aminoclonazepam: 5-500, Amphetamine: 5-500, Lamotrigine: 5-500, Lorazepam: 5-100, Meprobamate: 5-250, Mirtazapine: 5-500, Mitragynine 5-500, Norhydrocodone: 5-100



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	

TS

AM #28 Multi-Drug Quant. Results

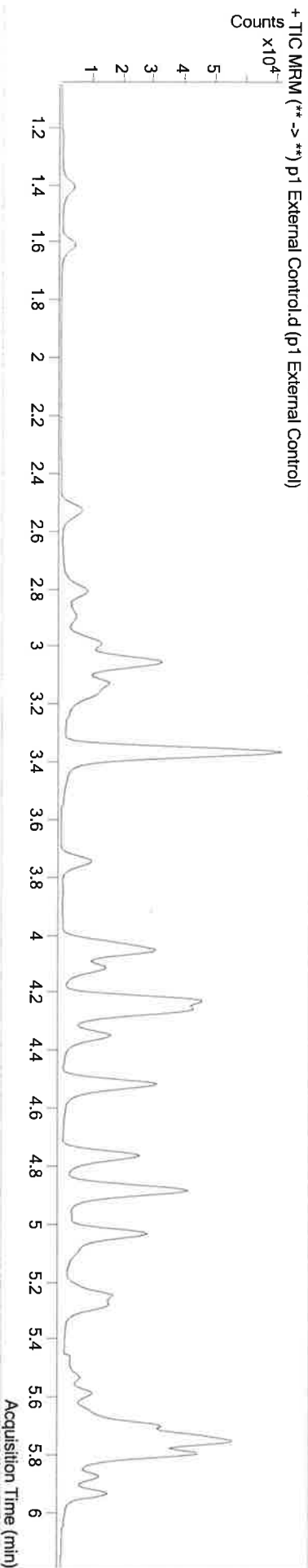


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Instrument FALCO-LCMS (Property ID 069901)
Type Sample
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-F2
Injection Volume 1
Acq. Date-Time 4/9/2019 9:04:42 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.759	36848	1385.88	104.2	2312.79	23747	47.9753 ng/ml
Amphetamine	3.062	48028	2050.92	54.8	4598.70	14792	49.7543 ng/ml
Fluoxetine	5.704	1834	480.30	9.4	140.83	1710	40.8158 ng/ml
O-desmethyl-tramadol	3.373	94392	16540.75	6.5	1424.43	97147	44.6977 ng/ml

TS

AM #28 Multi-Drug Quant. Results

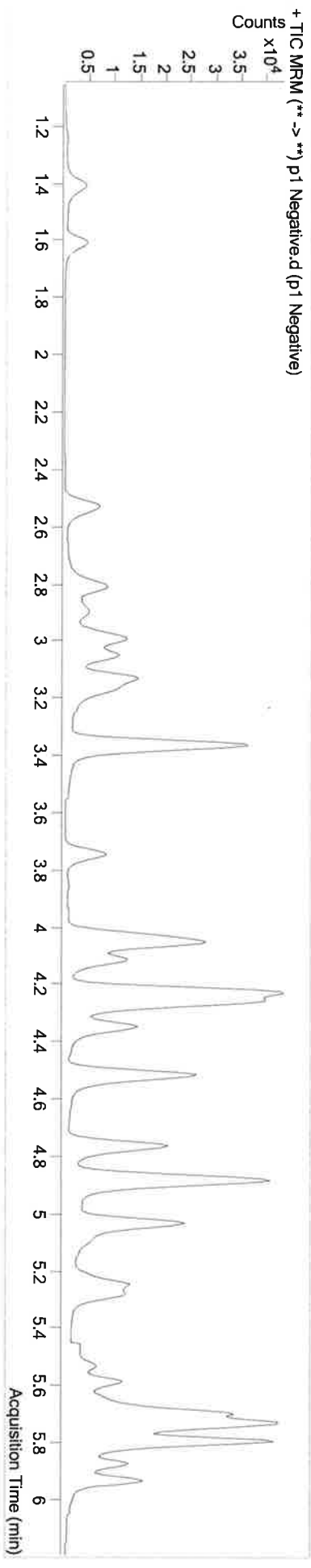


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Instrument Type: FALCO-LCMS (Property ID 069901)
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-E2
Injection Volume: 1
Acq. Date-Time: 4/9/2019 8:43:47 PM
Sample Info.

Data File: p1 Negative.d
Sample Operator: p1 Negative
Tamara Salazar
Comment

Sample Chromatogram



K

AM #28 Multi-Drug Quant. Results

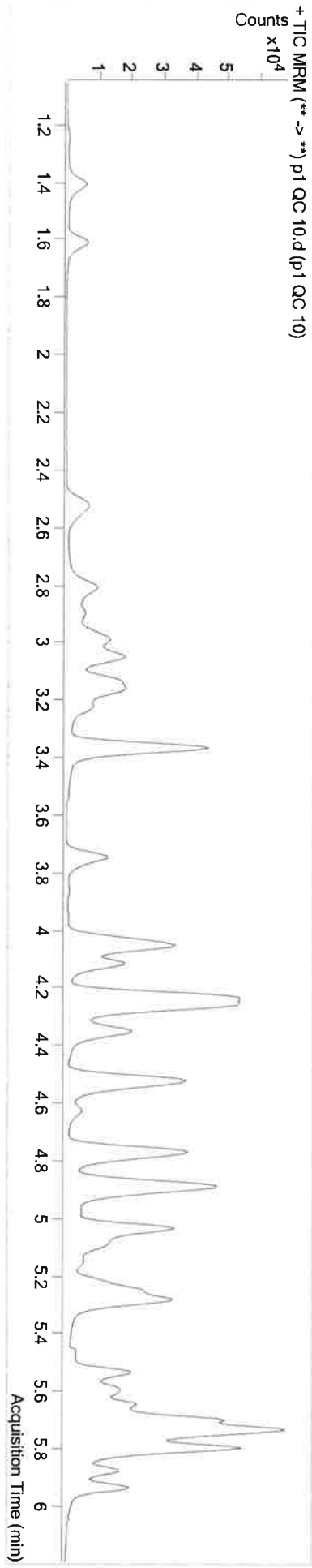


Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238 TS.batch.bin
4/12/2019 7:57:56 AM

Instrument Type FALCO-LCMS (Property ID 069901)
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-A2
Injection Volume 1
Acq. Date-Time 4/9/2019 7:09:39 PM
Sample Info.

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

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	952	444.65	71.1	∞	30363	0.9711 ng/ml
7-aminoclonazepam	4.253	5147	1114.89	81.8	2299.54	20982	10.6718 ng/ml
a-hydroxylprazolam	5.682	4060	497.70	63.6	718.86	19369	10.3932 ng/ml
alpha-PVP	4.366	8546	694.77	51.2	1104.23	37209	10.2207 ng/ml
Alprazolam	5.759	8380	435.57	107.9	699.89	24420	10.4356 ng/ml
Amphetamine	3.062	14115	260.86	57.0	∞	19169	10.5266 ng/ml
Benzoylcegonine	3.876	396	261.56	6.3	13.79	1232	9.1031 ng/ml
Buprenorphine	5.838	443	26.86	14.5	∞	16555	1.0577 ng/ml
Bupropion	4.789	24912	8177.45	58.3	2317.97	78688	10.8343 ng/ml
Carisoprodol	5.714	10288	183.15	58.3	74.93	52359	10.2347 ng/ml
Citalopram	5.222	3714	111.52	43.0	2817.34	15087	10.5692 ng/ml
Clonazepam	5.595	6292	1256.40	35.2	∞	9606	10.8299 ng/ml
Cocaine	4.266	8711	4125.90	43.8	11038.67	82930	9.9155 ng/ml
Codeine	2.583	1504	1420.93	102.8	1569.96	6717	9.9252 ng/ml
Cyclobenzaprine	5.618	3395	6966.18	10.6	87.02	12771	10.9475 ng/ml
Dextromethorphan	5.265	2132	1684.14	79.7	1689.92	9777	10.1512 ng/ml
Dextrophan	4.122	2918	4575.19	205.8	4607.46	31602	10.6457 ng/ml
Diazepam	5.945	5759	497.79	86.7	355.54	24443	10.8044 ng/ml

B

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	3525	5952.64	68.6	∞	18371	10.5190 ng/ml
Diphenhydramine	5.292	11163	153.53	35.9	129.88	54406	10.5785 ng/ml
Doxylamine	4.535	19455	4183.19	97.4	6763.90	84387	9.9900 ng/ml
EDDP	5.257	5616	5333.75	41.7	2699.28	29935	9.6328 ng/ml
Fentanyl	5.093	280	57.66	85.6	∞	13771	1.0025 ng/ml
Fluoxetine	5.704	4350	∞	9.4	1388.20	15609	10.2511 ng/ml
Hydrocodone	3.025	4017	107.03	39.7	147.11	23080	10.5075 ng/ml
Hydromorphone	1.621	3939	599.14	76.6	451.41	14445	10.0439 ng/ml
Ketamine	4.049	8198	933.12	36.3	385.80	37239	10.2297 ng/ml
Lamotrigine	4.290	1001	709.51	80.5	723.55	37239	10.5285 ng/ml
Lorazepam	5.737	15751	455.91	54.3	142.85	9606	11.2582 ng/ml
Meproramate	4.899	5907	264.38	27.4	245.63	27376	10.3471 ng/ml
Methadone	5.650	5915	310.59	52.7	413.62	26200	10.8301 ng/ml
Methamphetamine	3.231	11097	416.53	41.3	196.05	41858	10.5415 ng/ml
Metoprolol	4.322	2187	810.56	92.9	1150.00	91766	10.1349 ng/ml
Mirtazapine	4.630	6634	460.42	47.7	895.70	37209	8.1528 ng/ml
Mitragyline	5.228	898	3886.04	39.6	493.06	26200	8.3312 ng/ml
Morphine	1.253	947	1508.47	23.4	362.97	1184	9.4243 ng/ml
Norbuprenorphine	4.988	138	31.18	101.6	43.64	4512	1.0124 ng/ml
Nordiazepam	5.884	5709	976.87	57.0	691.20	17976	9.8381 ng/ml
Nortentanyl	4.084	1529	454.39	36.5	64.34	64414	0.9972 ng/ml
Northdrocodone	3.073	871	88.89	40.5	43.71	24575	9.2313 ng/ml
Noroxycodone	2.921	3171	77.44	49.4	95.96	10912	10.5567 ng/ml
O-desmethyl-tramadol	3.379	21864	2044.53	6.5	841.05	95395	10.3616 ng/ml
Oxazepam	5.740	16811	1145.76	69.9	∞	63740	10.2915 ng/ml
Oxycodone	2.833	7253	887.38	32.2	266.39	29590	10.5393 ng/ml
Oxycorphone	1.410	4212	323.41	49.3	138.62	15254	9.7157 ng/ml
Phentermine	3.781	3691	147.84	4.2	22.75	35719	10.4499 ng/ml
Promethazine	5.542	6235	396.45	26.5	∞	23440	10.9639 ng/ml
Quetiapine	5.552	5600	5351.70	61.5	1427.21	7062	10.8968 ng/ml
Setraline	5.780	2450	108.26	91.0	3222.49	9267	10.3844 ng/ml
Tenazepam	5.808	15991	362.82	32.6	40.62	71856	10.1723 ng/ml
Tramadol	4.242	19480	23771.09	3.5	192.83	91766	10.6190 ng/ml
Trazodone	5.161	4632	491.05	75.8	7383.62	18122	10.7032 ng/ml
Venlafaxine	5.040	13324	728.43	38.9	98.88	63797	9.9770 ng/ml
Zolpidem	4.917	18516	12341.41	31.6	133.60	87845	10.4421 ng/ml

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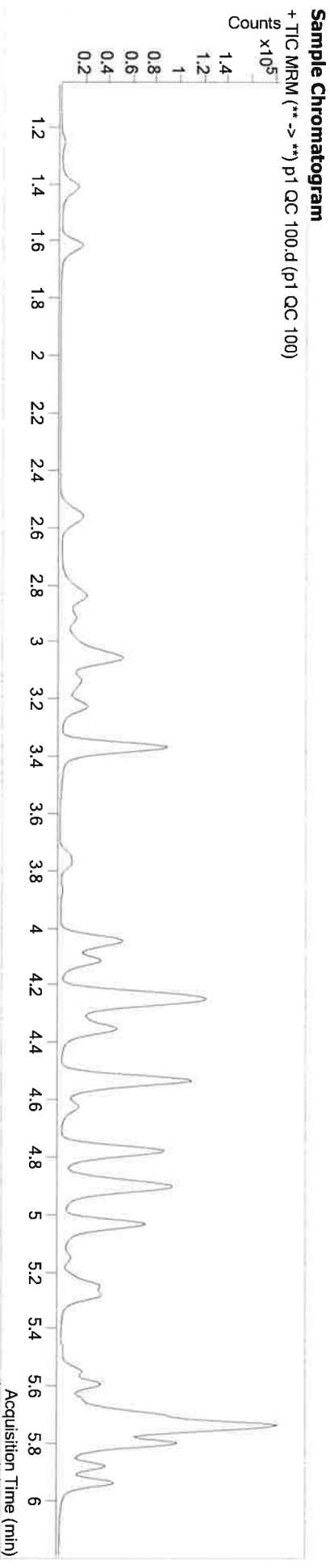
AM #28 Multi-Drug Quant. Results



Batch results
 Calibration Last Update: 4/12/2019 7:57:56 AM
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Instrument: FALCO-LCMS (Property ID 069901)
Type: QC
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-B2
Injection Volume: 1
Acq. Date-Time: 4/9/2019 7:30:35 PM
Sample Info.

Data File: p1 QC 100.d
Sample: p1 QC 100
Operator: Tamara Salazar
Comment



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	6742	6520.69	73.1	4075.12	23036	9.2092 ng/ml
7-aminoclonazepam	4.253	35125	19207.63	82.1	72928.34	15072	105.6068 ng/ml
a-hydroxyalprazolam	5.682	28041	2389.57	63.7	884.09	13675	106.5899 ng/ml
alpha-PVP	4.360	59466	9748.90	51.2	894.86	27039	100.2272 ng/ml
Alprazolam	5.759	61240	2408.50	102.7	2286.61	17843	106.3862 ng/ml
Amphetamine	3.062	73743	5373.99	60.6	9203.87	11539	98.8767 ng/ml
Benzoylcegonine	3.876	2474	406.77	8.1	253.85	941	94.2094 ng/ml
Buprenorphine	5.838	1045	∞	15.1	11.99	4590	9.6222 ng/ml
Bupropion	4.789	135167	∞	59.1	11140.16	44753	110.7864 ng/ml
Carisoprodol	5.714	74881	4383.22	56.8	568.71	38475	104.4935 ng/ml
Citalopram	5.222	11628	493.53	42.2	578.08	5091	103.8504 ng/ml
Clonazepam	5.595	42622	1375.49	34.6	402.53	6665	113.2010 ng/ml
Cocaine	4.259	64604	182941.31	43.3	15731.10	63013	101.6363 ng/ml
Codeine	2.590	10895	9981.52	102.8	1276.43	5070	105.8847 ng/ml
Cyclobenzaprine	5.618	3164	107.25	10.3	186.38	1356	96.6878 ng/ml
Dextromethorphan	5.265	4879	5929.51	80.7	13612.79	2565	92.6458 ng/ml
Dextroproprian	4.122	18964	1493.62	206.3	6252.06	21355	106.8636 ng/ml
Diazepam	5.945	39610	1974.83	87.0	3603.63	18047	103.4151 ng/ml



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	26242	262652.89	68.1	66792.31	14319	107.2785 ng/ml
Diphenhydramine	5.292	37874	3547.53	34.1	2267.04	19296	104.0359 ng/ml
Doxylamine	4.535	140369	52140.08	98.1	89110.78	63195	104.8245 ng/ml
EDDP	5.257	32311	678.35	42.1	1105.45	17703	94.5442 ng/ml
Fentanyl	5.093	413	259.15	73.4	527.14	2222	9.5051 ng/ml
Fluoxetine	5.704	3465	1542.87	8.6	∞	1422	93.2756 ng/ml
Hydrocodone	3.025	28343	266.53	40.7	179.12	17680	102.1860 ng/ml
Hydromorphone	1.621	28738	678.52	74.2	641.81	10895	100.5376 ng/ml
Ketamine	4.049	59662	1902.60	37.4	701.59	28575	102.3940 ng/ml
Lamotrigine	4.290	6789	5651.29	78.6	14558.90	28575	98.8978 ng/ml
Lorazepam	5.737	83792	6268.24	56.5	543.65	6665	94.1500 ng/ml
Meprobamate	4.899	40573	323.73	27.5	6604.95	20419	101.3639 ng/ml
Methadone	5.650	14699	1936.38	50.6	255.35	6952	105.0510 ng/ml
Methamphetamine	3.231	45011	1881.72	38.3	1683.00	19463	99.4942 ng/ml
Metoprolol	4.322	16157	14388.40	92.9	∞	69774	102.2432 ng/ml
Mirtazapine	4.630	22914	18019.88	47.3	8310.88	27039	38.7389 ng/ml
Mitragynine	5.221	1555	607.97	36.9	422.79	6952	58.0602 ng/ml
Morphine	1.253	6989	986.25	23.2	502.57	894	97.8617 ng/ml
Norbuprenorphine	4.982	352	74.18	96.4	15.34	1534	10.1049 ng/ml
Nordiazepam	5.884	38500	∞	57.6	2729.59	12401	99.6104 ng/ml
Norfentanyl	4.084	11174	6217.86	37.9	1835.94	48440	9.2793 ng/ml
Northdrocodone	3.073	9468	630.39	39.5	269.18	18724	88.7675 ng/ml
Noroxycodone	2.921	21717	897.01	51.9	228.49	8178	101.4241 ng/ml
O-desmethyl-tramadol	3.379	162977	74077.25	6.6	2152.07	73422	102.4194 ng/ml
Oxazepam	5.740	101323	2745.86	70.1	1021.15	39697	107.0443 ng/ml
Oxycodone	2.840	51316	214.41	32.7	312.74	23139	99.3942 ng/ml
Oxymorphone	1.410	30298	993.30	47.5	377.30	10693	105.4419 ng/ml
Pemethazine	3.781	21144	576.22	4.1	104.88	21737	105.1268 ng/ml
Promethazine	5.542	6118	1043.02	30.4	286.68	2726	93.6370 ng/ml
Quetiapine	5.552	19021	5914.09	59.3	11992.01	2446	108.4940 ng/ml
Sertraline	5.780	1676	162.87	85.2	323.39	709	96.9900 ng/ml
Temazepam	5.808	107216	1019.56	30.1	∞	50904	98.7575 ng/ml
Tramadol	4.242	141461	6997.08	3.6	690.27	69774	107.0898 ng/ml
Trazodone	5.154	10461	122.13	77.7	4238.57	4422	105.3559 ng/ml
Venlafaxine	5.040	97994	4244.02	38.1	860.24	48521	100.6495 ng/ml
Zolpidem	4.910	134554	∞	31.9	12463.05	65723	104.7762 ng/ml

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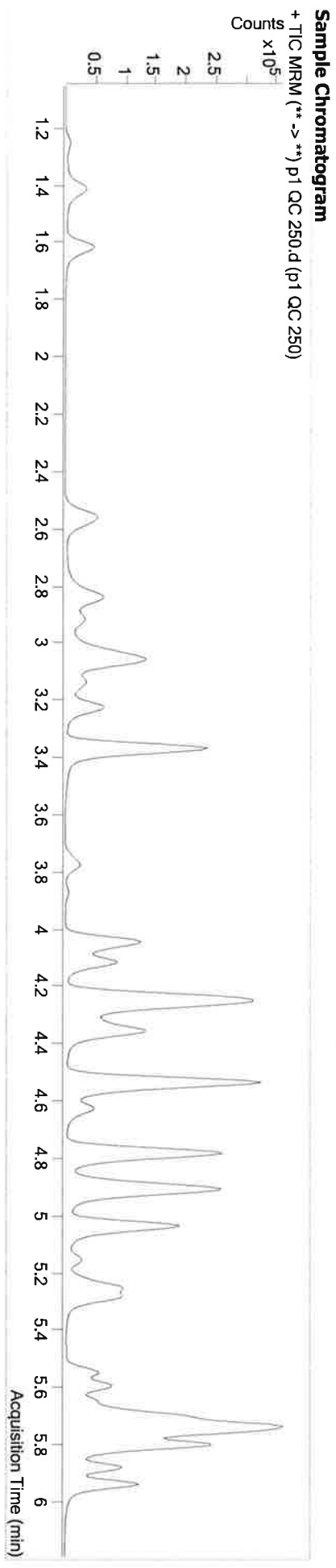
AM #28 Multi-Drug Quant. Results



Batch results
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Instrument: FALCO-LCMS (Property ID 069901)
Type: QC
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-C2
Injection Volume: 1
Acq. Date-Time: 4/9/2019 7:51:29 PM
Sample Info.

Data File: p1 QC 250.d
Sample Operator: p1 QC 250
Comment: Tamara Salazar



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	22793	3123.05	71.0	6497.40	30979	23.1777 ng/ml
7-aminoclonazepam	4.253	104108	343.04	80.6	63031.37	19087	247.8300 ng/ml
a-hydroxylprazosin	5.682	80407	3384.74	64.4	1910.80	16736	250.4927 ng/ml
alpha-PVP	4.366	195339	84529.75	51.9	25488.94	35996	247.7184 ng/ml
Alprazolam	5.759	188817	4111.38	103.4	4420.41	22935	255.5014 ng/ml
Amphetamine	3.062	218926	15151.84	55.8	7160.01	14052	242.4473 ng/ml
Benzoylcegonine	3.876	7955	387.44	7.9	1233.03	1193	242.9984 ng/ml
Buprenorphine	5.838	4022	1545.46	17.6	448.24	6696	25.5149 ng/ml
Bupropion	4.789	441408	70565.78	58.8	1515.18	60049	270.8798 ng/ml
Carisoprodol	5.714	210422	36239.57	56.2	1643.19	46196	245.0308 ng/ml
Citalopram	5.222	37847	10353.07	41.9	4976.70	6789	254.4561 ng/ml
Clonazepam	5.595	115893	35566.73	34.7	12210.63	8064	255.4842 ng/ml
Cocaine	4.266	195998	245909.32	44.2	41445.42	78830	247.2680 ng/ml
Codeline	2.590	32166	962.52	102.0	6316.05	6185	257.9709 ng/ml
Cyclobenzaprine	5.618	16049	527.79	10.7	590.72	2769	240.3207 ng/ml
Dextromethorphan	5.265	17470	380.74	77.2	∞	3615	236.1900 ng/ml
Dextropropriphan	4.122	58378	30872.44	207.4	2664.18	26688	263.9910 ng/ml
Diazepam	5.945	128788	13127.79	86.4	1328.79	23763	255.8533 ng/ml

TS

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	82266	39426.34	68.6	105367.50	19292	250.6562 ng/ml
Diphenhydramine	5.292	120569	13078.25	34.1	15749.17	25250	253.5745 ng/ml
Doxylamine	4.535	444638	343771.10	97.3	325939.48	82301	256.3829 ng/ml
EDDP	5.257	112917	5356.32	41.6	8442.31	25075	233.4064 ng/ml
Fentanyl	5.093	1647	212.45	72.9	764.90	3634	23.2040 ng/ml
Fluoxetine	5.704	17964	1739.92	9.6	1017.73	3022	228.2735 ng/ml
Hydrocodone	3.025	86311	383.61	40.3	560.66	22227	248.4608 ng/ml
Hydromorphone	1.621	83668	1334.77	75.0	1806.88	13319	239.9848 ng/ml
Ketamine	4.049	192855	2757.83	37.5	1409.95	38405	247.1592 ng/ml
Lamotrigine	4.290	21140	21090.53	79.7	5237.43	38405	230.1226 ng/ml
Levazepam	5.730	168242	4385.32	56.1	8020.20	8064	157.0298 ng/ml
Meprobamate	4.899	102850	120125.32	28.2	3516.05	24111	218.4612 ng/ml
Methadone	5.650	53063	10607.46	51.3	2617.69	9897	267.0514 ng/ml
Methamphetamine	3.231	134344	4955.36	41.1	∞	24076	241.4384 ng/ml
Metoprolol	4.322	49541	83276.77	93.8	∞	91177	240.4872 ng/ml
Mirtazapine	4.630	71508	134440.12	48.0	3097.61	35996	90.8052 ng/ml
Mitragynine	5.228	6375	∞	38.1	10030.81	9897	168.4580 ng/ml
Morphine	1.253	20441	452.48	23.3	8953.26	1114	230.4594 ng/ml
Norbuprenorphine	4.988	1156	92.11	97.9	755.56	1927	27.0099 ng/ml
Nordiazepam	5.884	115351	12971.54	57.7	8701.49	15230	243.5661 ng/ml
Norfentanyl	4.084	36855	∞	37.7	1453.92	62114	23.7946 ng/ml
Norhydrocodone	3.073	42894	1189.97	41.8	372.08	25651	286.0683 ng/ml
Noroxycodone	2.921	65180	∞	49.0	437.01	9900	252.3427 ng/ml
O-desmethyl-tramadol	3.373	532763	110082.68	6.5	6173.29	97405	252.7187 ng/ml
Oxazepam	5.740	217334	4614.14	69.7	910.52	36577	250.3324 ng/ml
Oxycodone	2.840	166769	486.76	32.7	266.23	30841	243.0683 ng/ml
Oxymorphone	1.417	86357	1104.67	48.9	706.43	13407	240.4893 ng/ml
Phentermine	3.781	63135	7986.73	4.0	489.61	27286	251.1688 ng/ml
Promethazine	5.542	31488	5527.22	28.1	1378.90	5176	254.0654 ng/ml
Quetiapine	5.552	61023	14796.87	59.8	16156.94	3426	248.7399 ng/ml
Sertraline	5.780	8951	∞	93.1	1647.40	1591	231.4812 ng/ml
Temazepam	5.808	335665	16926.74	30.5	3722.44	64762	243.4521 ng/ml
Tramadol	4.242	443801	39599.01	3.6	2751.52	91177	258.0331 ng/ml
Trazodone	5.161	37527	∞	78.6	83190.52	6480	259.0208 ng/ml
Venlafaxine	5.040	318980	107405.19	37.5	2238.61	62581	254.7505 ng/ml
Zolpidem	4.917	438237	98600.51	31.7	∞	89181	252.0281 ng/ml

*outside curve
ramp. - TS*

*outside curve
ramp - TS*

TS

AM #28 Multi-Drug Quant. Results

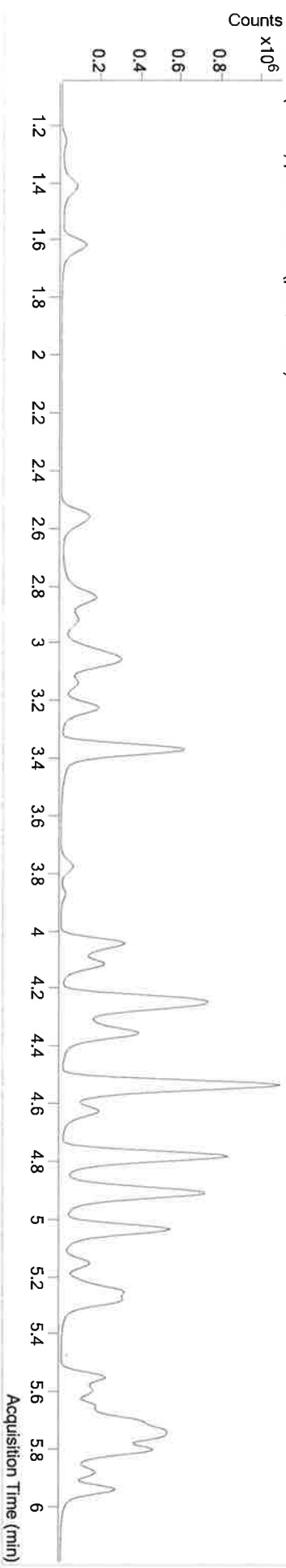


Batch results
 Calibration Last Update: 4/12/2019 7:57:56 AM
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Instrument: FALCO-LCMS (Property ID 069901)
Type: QC
Acq. Method: MDQ P1 Combined 011619.m
Sample Position: P1-D2
Injection Volume: 1
Acq. Date-Time: 4/9/2019 8:12:24 PM
Sample Info.

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

Sample Chromatogram
 + TIC MRM (** -> **) p1 QC 1000.d (p1 QC 1000)



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	81347	2840.05	71.0	10954.92	27479	93.3110 ng/ml
Zamifenacin	4.253	202640	45557.74	81.4	26569.17	11950	774.5768 ng/ml
a-hydroxypiprazolam	5.682	177208	988.93	64.3	798.33	10152	911.5686 ng/ml
alpha-PVP	4.366	641091	11564.10	51.6	199958.41	29631	988.4481 ng/ml
Alprazolam	5.759	484344	6163.57	101.9	5848.33	14587	1031.1645 ng/ml
Amphetamine	3.062	467553	13529.74	61.1	36819.16	10593	688.6547 ng/ml
Benzoyllecgonine	3.876	33407	10609.33	7.8	6336.65	1171	1049.2747 ng/ml
Buprenorphine	5.838	12153	6961.32	17.6	1069.14	5087	101.7258 ng/ml
Bupropion	4.789	1507185	243167.42	58.6	101115.67	52508	1060.2703 ng/ml
Carisoprodol	5.714	484904	1666.44	55.5	17147.86	27470	950.5875 ng/ml
Citalopram	5.222	146511	1766.15	42.8	6095.64	6663	1005.7819 ng/ml
Clonazepam	5.602	253613	49253.65	34.8	4819.33	4966	909.9193 ng/ml
Cocaine	4.266	601571	711462.10	43.8	143755.43	60806	985.5586 ng/ml
Codeine	2.590	88394	626.79	99.9	109853.42	4484	981.3843 ng/ml
Cyclobenzaprine	5.618	64522	935.40	10.4	104.31	2705	989.0976 ng/ml
Dextromethorphan	5.265	64239	16416.86	79.3	342.20	3364	934.7166 ng/ml
Dextropropriphan	4.122	167486	221362.65	207.5	4475.60	19126	1058.3606 ng/ml
Diazepam	5.945	351044	8576.75	86.0	∞	16803	987.2116 ng/ml

Outside curve range
TS
outside curve range

AM #28 Multi-Drug Quant. Results



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	246171	127356.12	69.9	100158.43	17182	844,0469 ng/ml
Diphenhydramine	5.292	446834	1497.58	34.2	660.86	23415	1014,4016 ng/ml
Doxylamine	4.535	1598841	473763.16	97.9	1851359.0	77549	981,1956 ng/ml
EDDP	5.257	431533	5171.77	41.4	2238.43	23936	934,7148 ng/ml
Fentanyl	5.093	6970	360.10	76.1	7248.00	3709	96,3673 ng/ml
Fluoxetine	5.704	48660	63033.61	9.7	393.10	2013	929,7293 ng/ml
Hydrocodone	3.025	266771	488.28	42.9	∞	18681	915,4889 ng/ml
Hydromorphone	1.621	246768	1269.54	76.0	389.16	10237	922,0196 ng/ml
Ketamine	4.049	625253	264899.14	37.3	2140.15	33286	926,2699 ng/ml
Lamotrigine	4.290	59490	9597.30	78.7	∞	33286	748,8442 ng/ml
Lorazepam	5.730	223345	2449.08	56.7	∞	4966	339,8190 ng/ml
Meprobamate	4.899	219843	32668.46	27.7	347.84	17846	632,2909 ng/ml
Methadone	5.650	200090	∞	51.7	1650.59	9849	1013,0894 ng/ml
Methamphetamine	3.231	397206	9542.53	43.7	12178.28	20424	843,9003 ng/ml
Metoprolol	4.322	142630	401479.76	94.2	45883.89	74481	848,6542 ng/ml
Mirtazapine	4.630	298024	151611.65	47.7	56893.58	29631	459,7220 ng/ml
Mitragynine	5.228	22018	15504.85	39.3	26605.63	9849	586,2768 ng/ml
Morphine	1.260	58892	1004.02	22.9	519.82	826	897,8068 ng/ml
Norbuprenorphine	4.988	3830	11019.06	94.7	849.64	1679	103,6847 ng/ml
Nordiazepam	5.891	241833	10248.54	58.3	133827.69	9105	855,1811 ng/ml
Norfentanyl	4.084	133762	70278.05	38.1	4396.14	49552	108,0866 ng/ml
Northhydrocodone	3.073	147278	1624.27	41.9	∞	21047	1186,7658 ng/ml
Noroxycodone	2.921	175381	738.47	50.9	∞	7338	917,7141 ng/ml
O-desmethyl-tramadol	3.373	1685865	446244.21	6.6	56482.73	78450	993,6107 ng/ml
Oxazepam	5.740	239199	5642.80	70.4	2093.13	11818	854,7713 ng/ml
Oxycodone	2.840	526241	∞	31.7	∞	26337	899,5440 ng/ml
Oxymorphone	1.410	232593	1838.24	49.6	∞	9619	904,5057 ng/ml
Phentermine	3.781	176981	37206.97	3.9	1035.70	22400	859,5899 ng/ml
Promethazine	5.542	119300	1111.24	29.1	7367.33	4999	997,0863 ng/ml
Quetiapine	5.552	285370	2422.22	59.8	28952.49	4186	952,7353 ng/ml
Setraline	5.780	21356	8833.21	92.7	13803.59	932	944,6086 ng/ml
Temazepam	5.808	79176	6274.24	29.6	3629.77	38858	957,9431 ng/ml
Tramadol	4.242	1334858	128352.54	3.6	1429.03	74481	951,8632 ng/ml
Trazodone	5.161	213867	72854.85	80.3	421104.07	9264	1034,7720 ng/ml
Venlafaxine	5.040	1067446	96787.90	38.0	1945.55	52889	1010,1456 ng/ml
Zolpidem	4.917	1496970	∞	31.0	1772134.0	80634	953,2227 ng/ml

Outside cuve range. 75

Outside cuve range. 75

Outside cuve range. 75

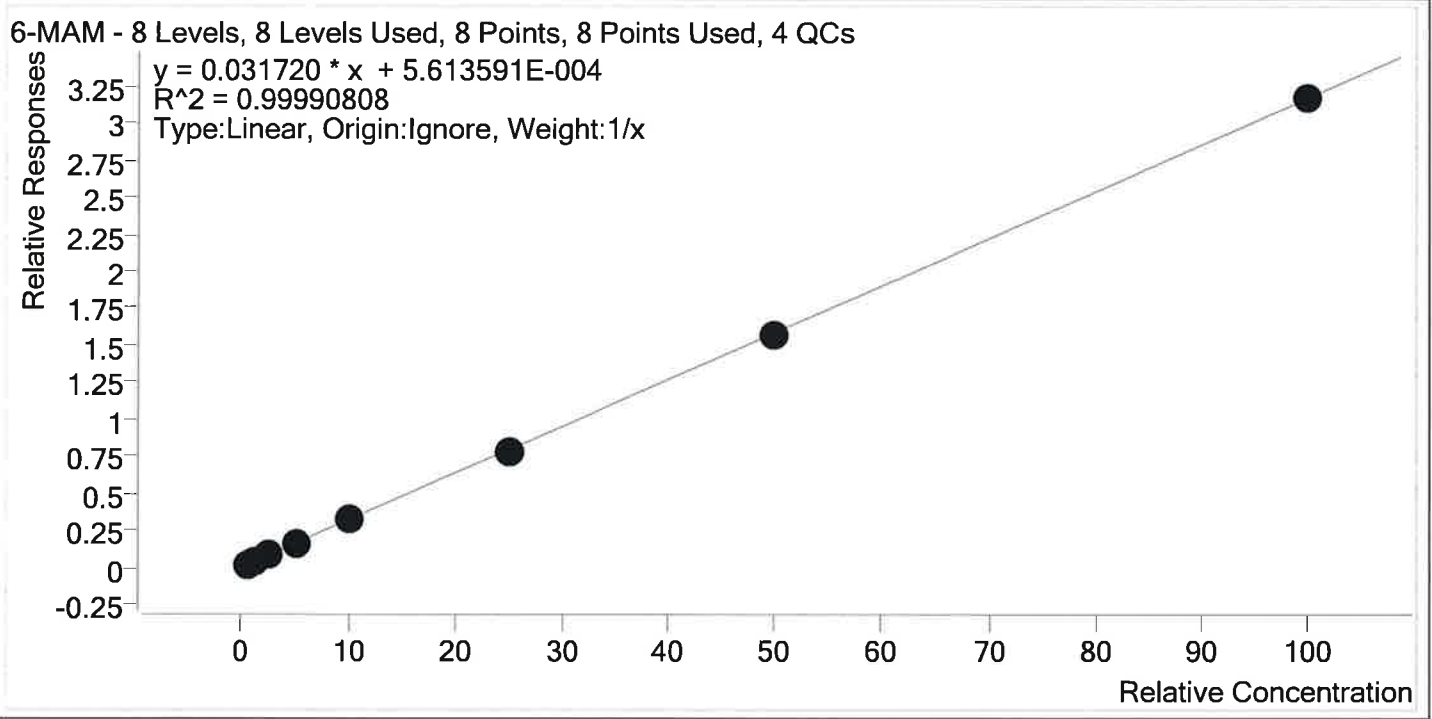
Outside cuve range. 75

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
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Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte 6-MAM **Internal Standard** 6-MAM-D6



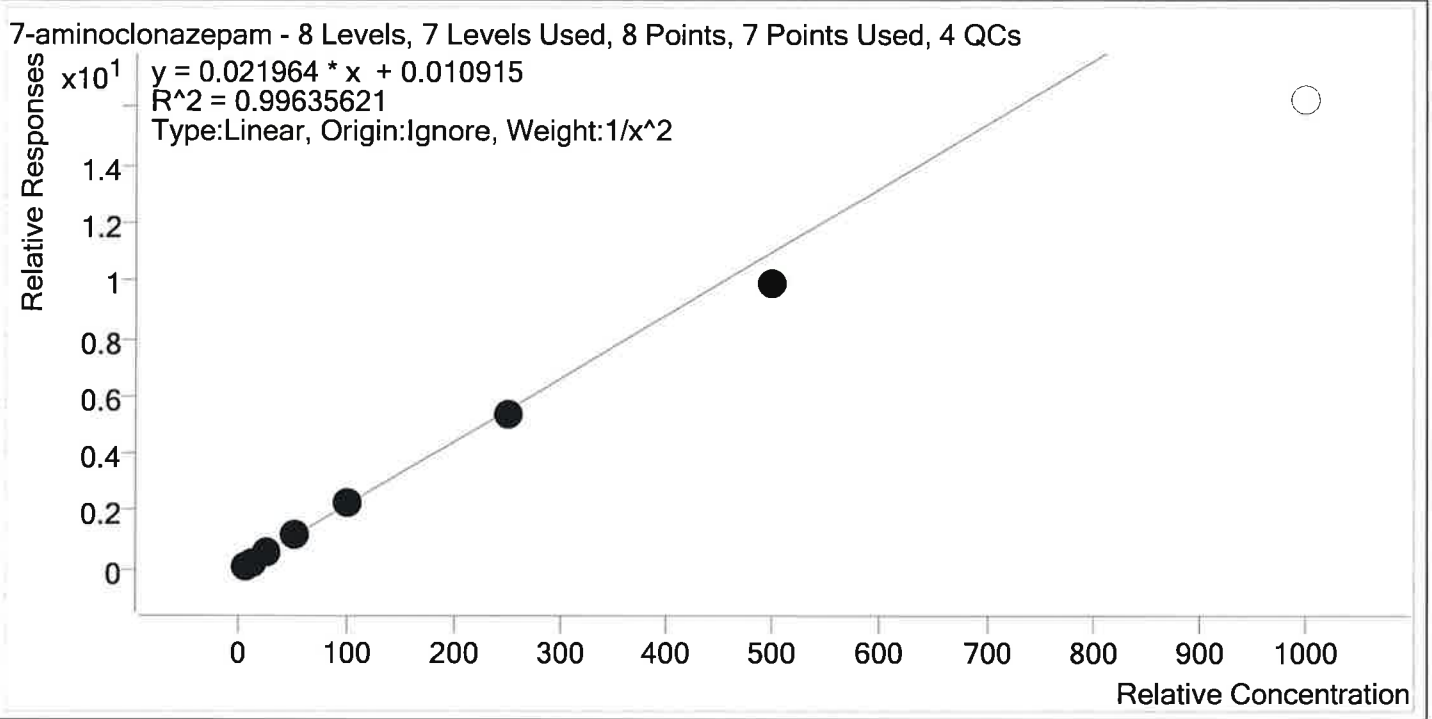
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	100.1
p1 Cal 2- 10ng	2	✓	1.0	0.9	95.0
p1 Cal 3 -25ng	3	✓	2.5	2.5	101.2
p1 Cal 4-50ng	4	✓	5.0	5.1	101.6
p1 Cal 5-100ng	5	✓	10.0	10.3	103.2
p1 Cal 6-250ng	6	✓	25.0	24.8	99.3
p1 Cal 7-500ng	7	✓	50.0	49.8	99.6
p1 Cal 8-1000ng	8	✓	100.0	100.0	100.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



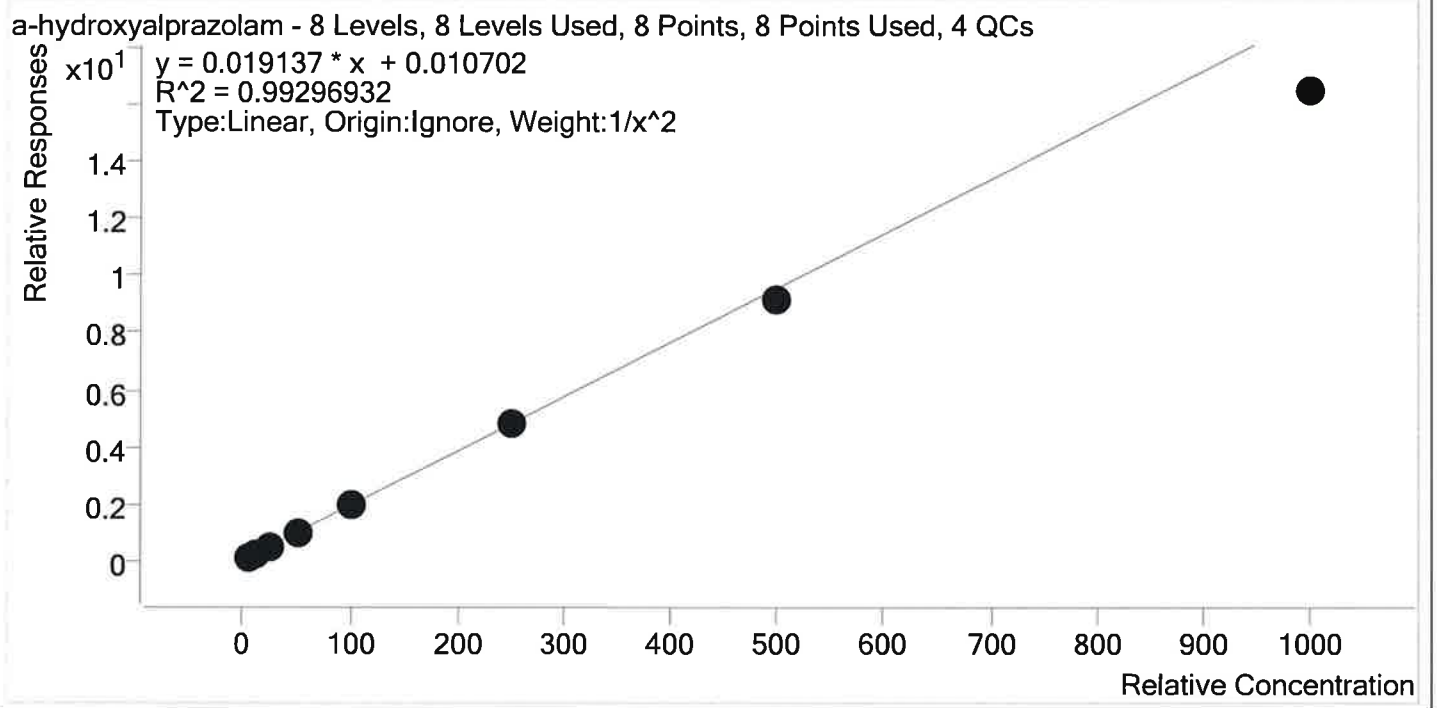
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.7
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	245.4	98.2
p1 Cal 7-500ng	7	✓	500.0	452.1	90.4
p1 Cal 8-1000ng	8	×	1000.0	739.8	74.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 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	4.7	94.1
p1 Cal 2- 10ng	2	✓	10.0	10.9	108.6
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.0
p1 Cal 4-50ng	4	✓	50.0	52.4	104.8
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng	7	✓	500.0	482.2	96.4
p1 Cal 8-1000ng	8	✓	1000.0	862.3	86.2

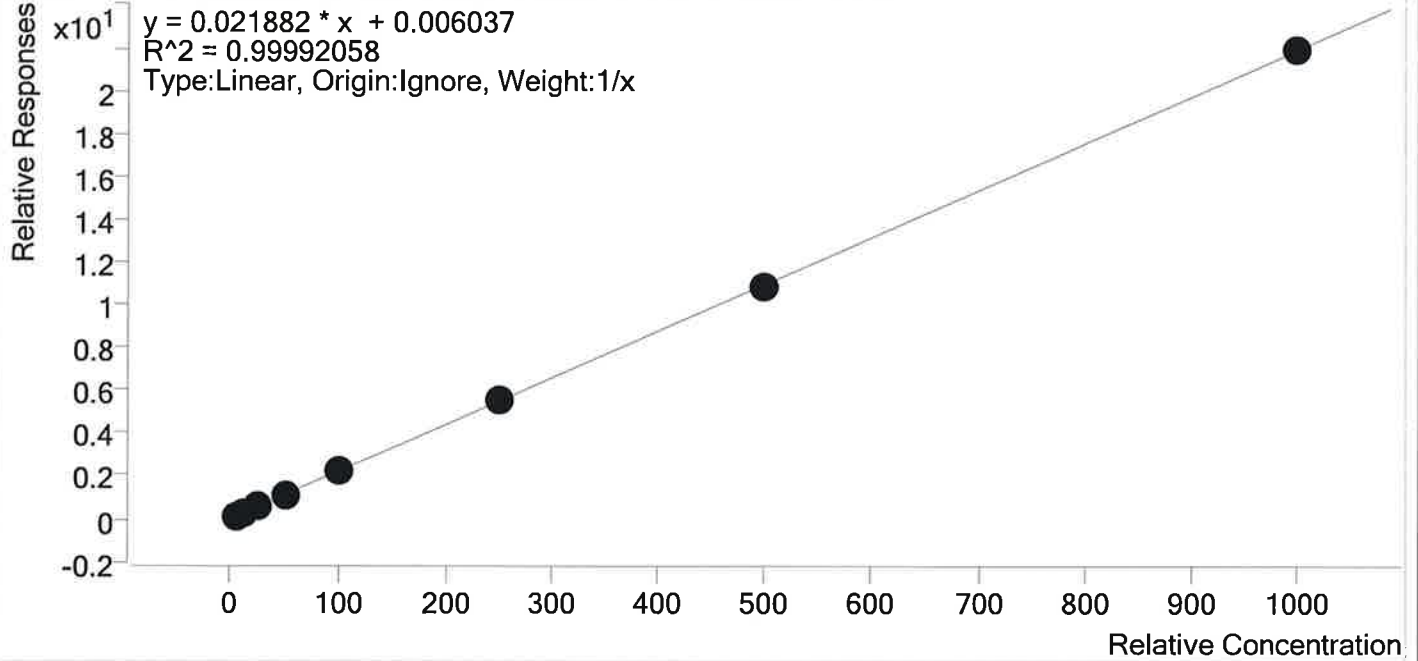
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 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	4.8	96.4
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	49.3	98.7
p1 Cal 5-100ng	5	✓	100.0	101.7	101.7
p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
p1 Cal 7-500ng	7	✓	500.0	495.2	99.0
p1 Cal 8-1000ng	8	✓	1000.0	1000.5	100.0

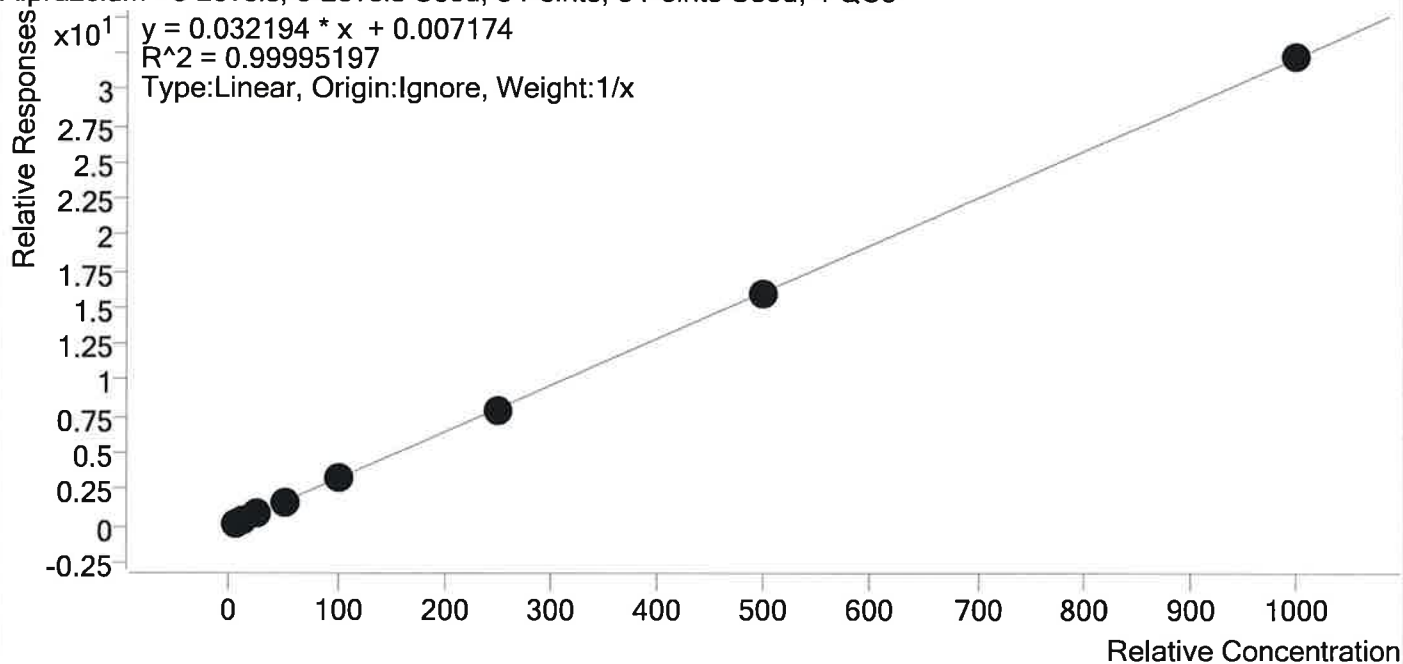
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Alprazolam **Internal Standard** Alprazolam-D5

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



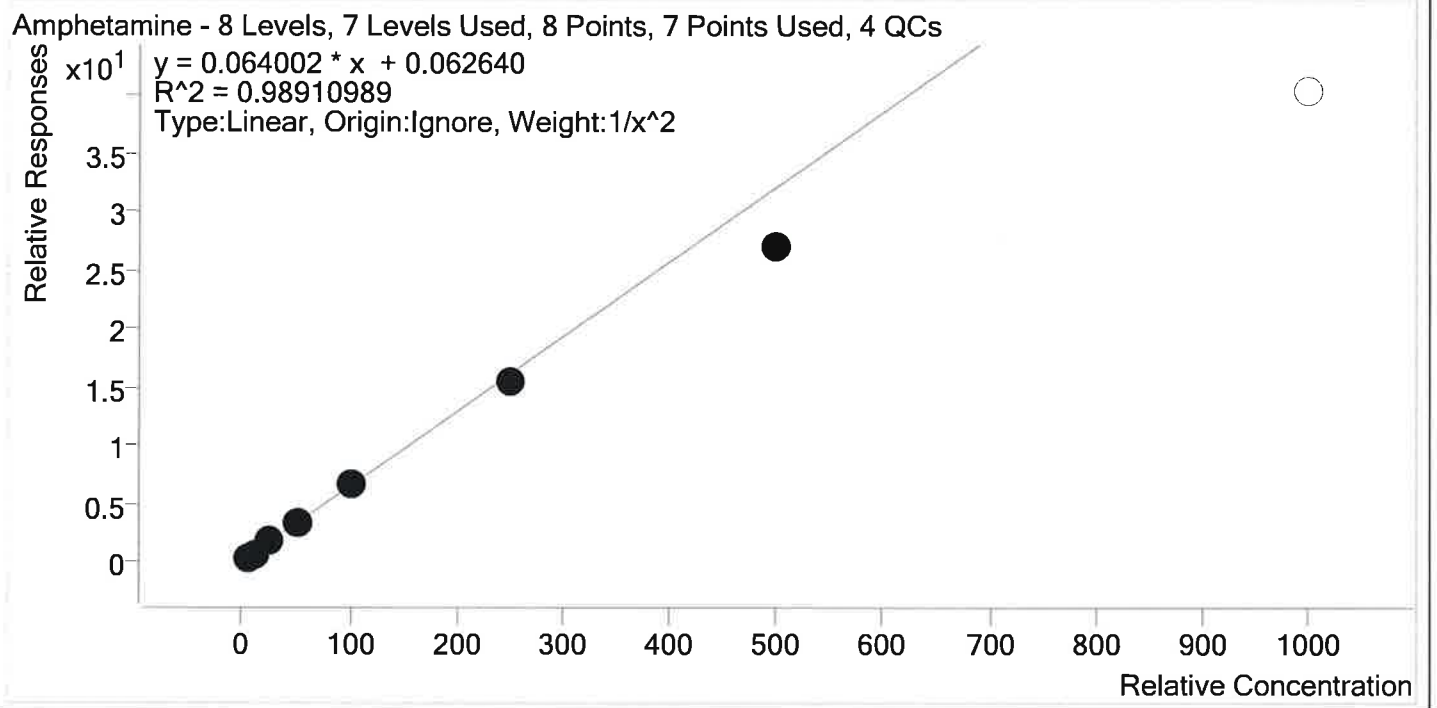
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	499.0	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1002.0	100.2

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Amphetamine **Internal Standard** Amphetamine-D11



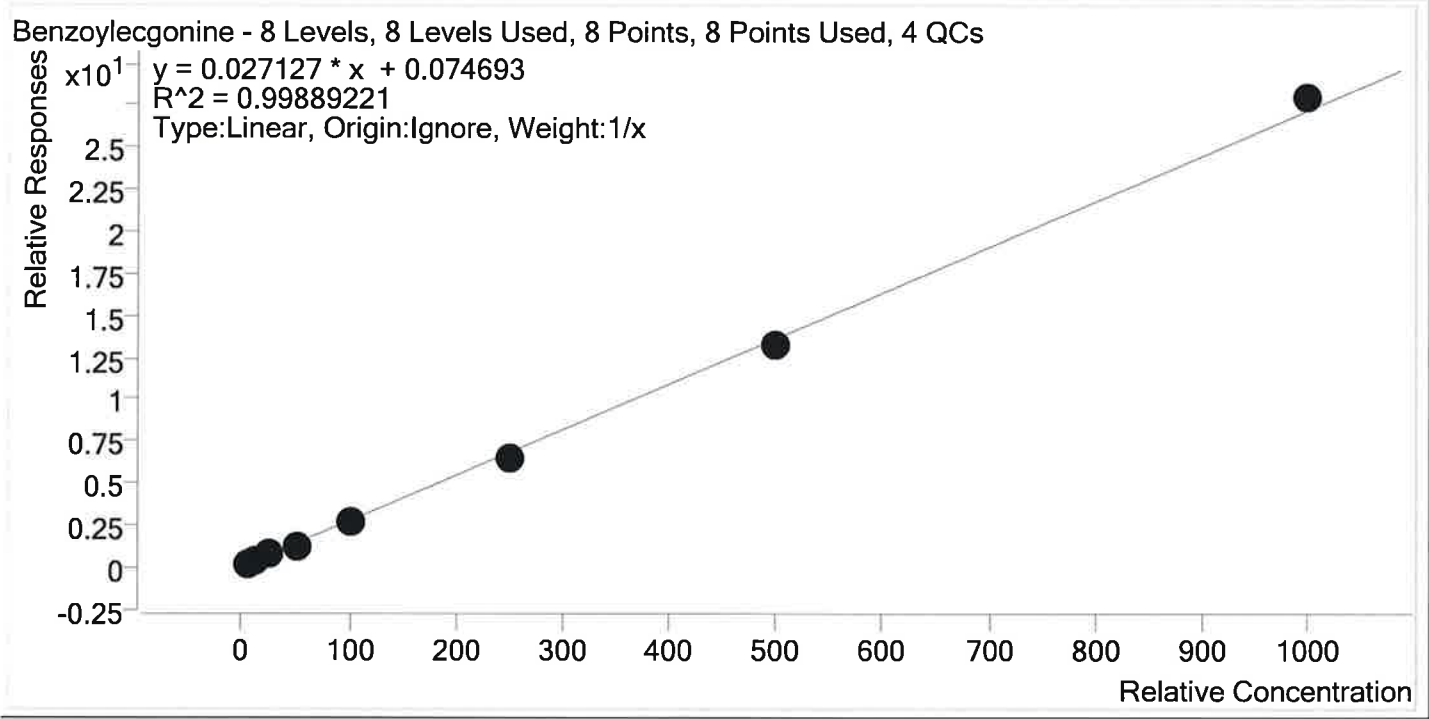
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.7
p1 Cal 4-50ng	4	✓	50.0	53.3	106.7
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	239.4	95.8
p1 Cal 7-500ng	7	✓	500.0	419.4	83.9
p1 Cal 8-1000ng	8	×	1000.0	627.9	62.8

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
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Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

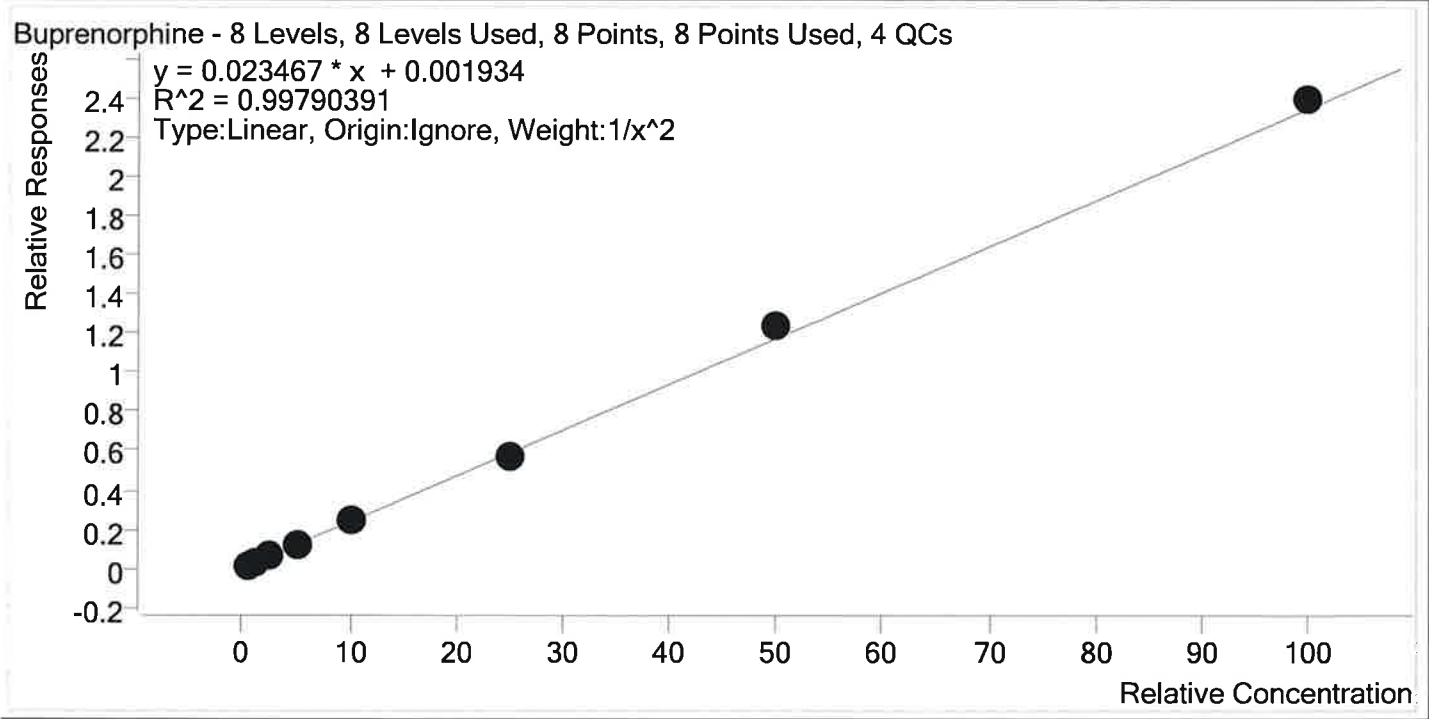


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	118.0
p1 Cal 2- 10ng	2	✓	10.0	9.6	96.4
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	47.1	94.2
p1 Cal 5-100ng	5	✓	100.0	97.0	97.0
p1 Cal 6-250ng	6	✓	250.0	240.6	96.3
p1 Cal 7-500ng	7	✓	500.0	486.7	97.3
p1 Cal 8-1000ng	8	✓	1000.0	1028.6	102.9



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Buprenorphine **Internal Standard** Buprenorphine-D4



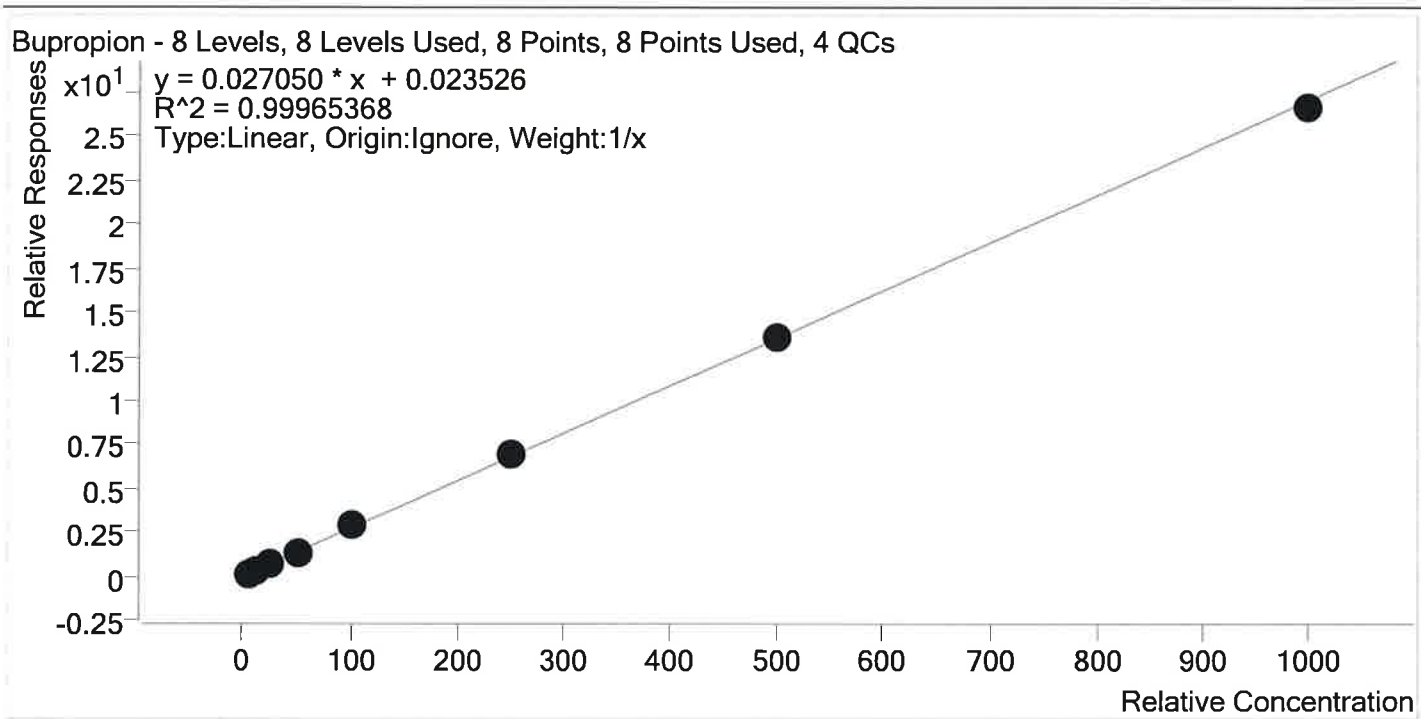
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	103.5
p1 Cal 2- 10ng	2	✓	1.0	0.9	93.1
p1 Cal 3 -25ng	3	✓	2.5	2.5	100.4
p1 Cal 4-50ng	4	✓	5.0	4.9	98.0
p1 Cal 5-100ng	5	✓	10.0	10.1	101.5
p1 Cal 6-250ng	6	✓	25.0	24.1	96.2
p1 Cal 7-500ng	7	✓	50.0	52.5	105.1
p1 Cal 8-1000ng	8	✓	100.0	102.2	102.2

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Bupropion **Internal Standard** Bupropion-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	89.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.5
p1 Cal 4-50ng	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	254.7	101.9
p1 Cal 7-500ng	7	✓	500.0	505.2	101.0
p1 Cal 8-1000ng	8	✓	1000.0	985.0	98.5

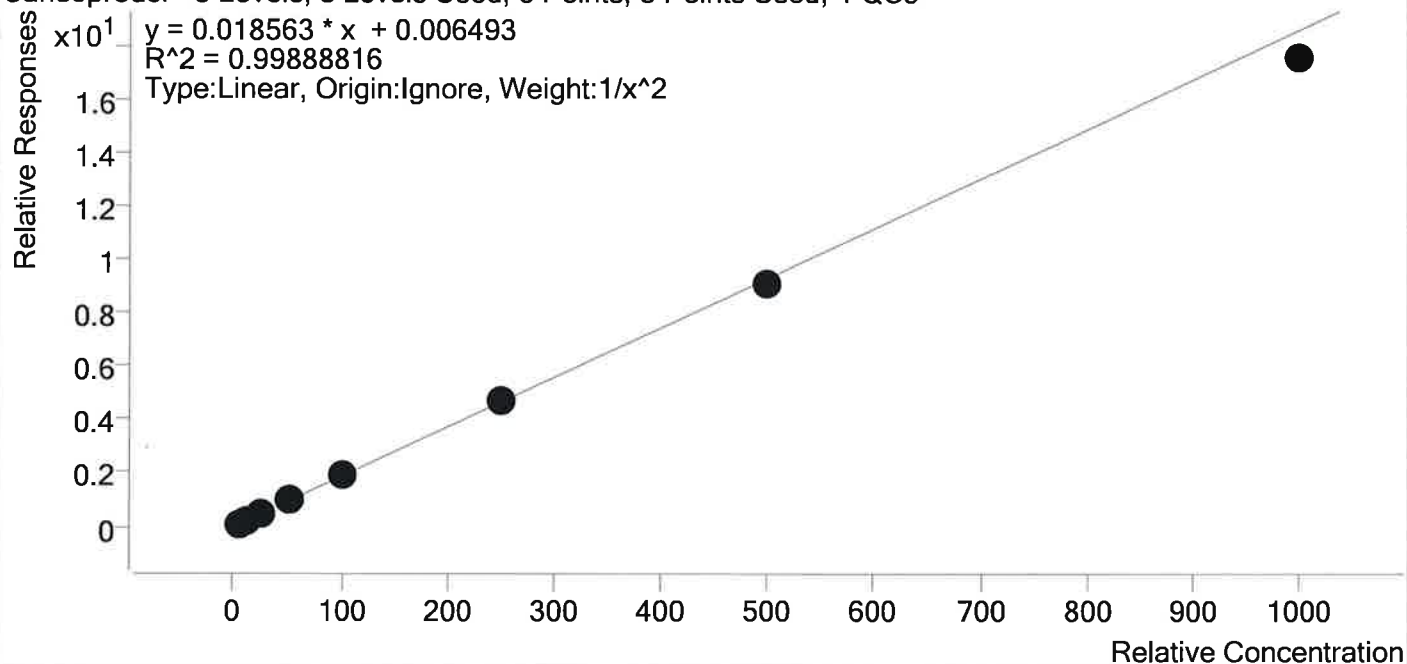
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Carisoprodol **Internal Standard** Carisoprodol-D7

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



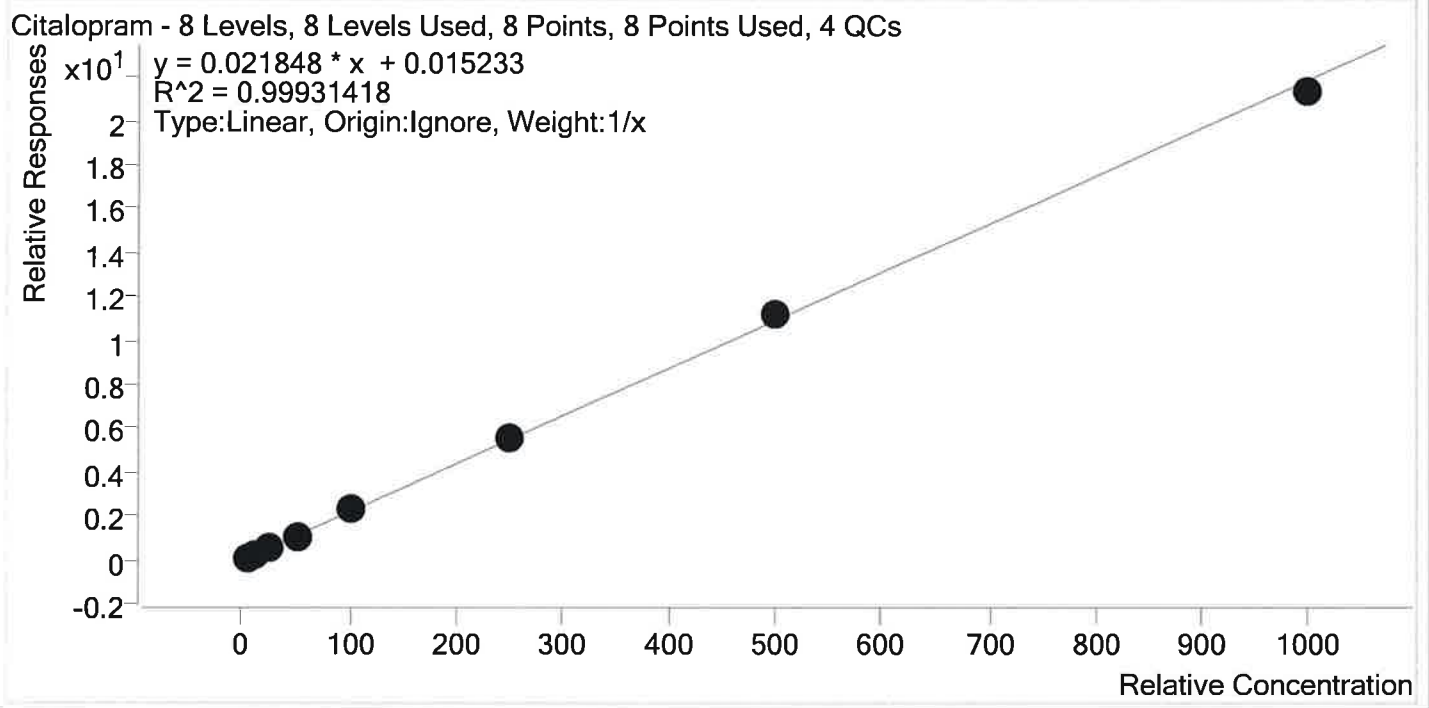
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.0
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	102.4	102.4
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	490.5	98.1
p1 Cal 8-1000ng	8	✓	1000.0	944.8	94.5

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

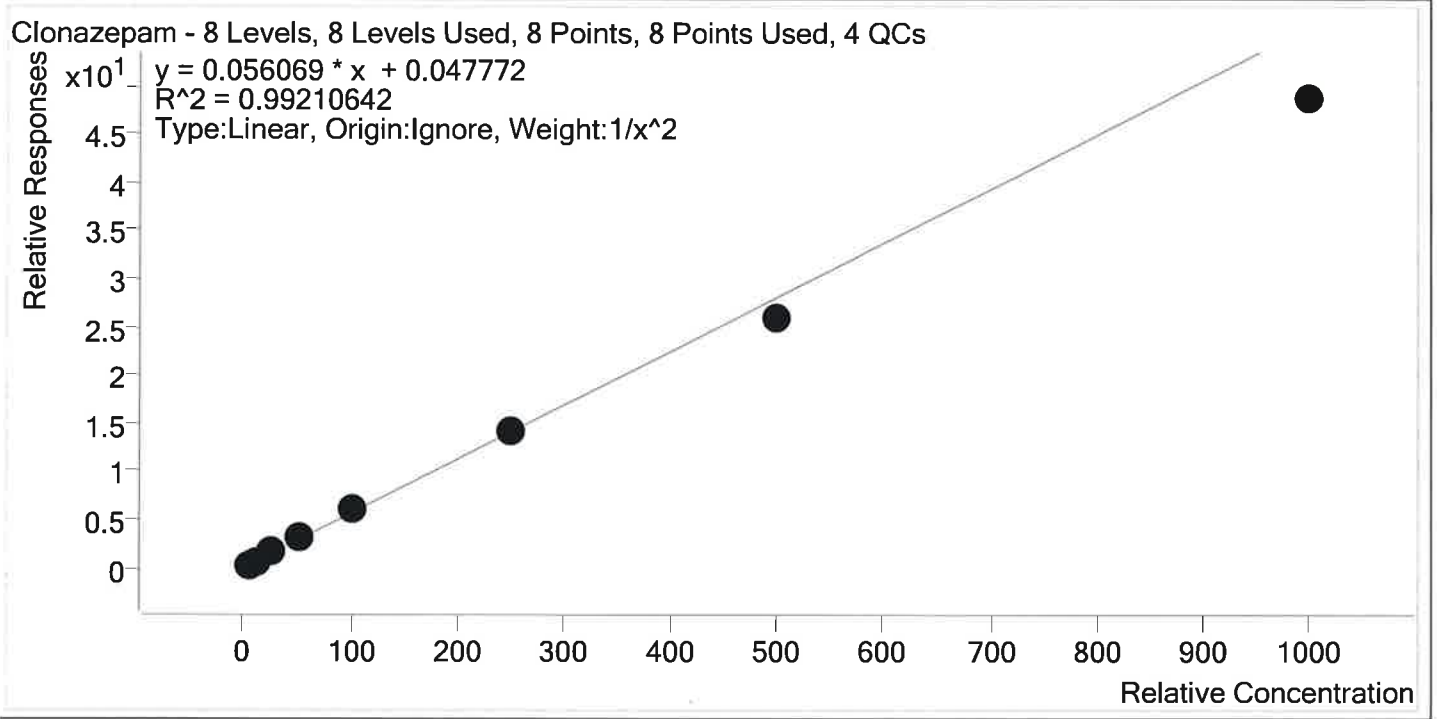
Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Citalopram **Internal Standard** Citalopram-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.3
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	257.6	103.0
p1 Cal 7-500ng	7	✓	500.0	511.0	102.2
p1 Cal 8-1000ng	8	✓	1000.0	977.0	97.7

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Clonazepam **Internal Standard** Clonazepam-D4



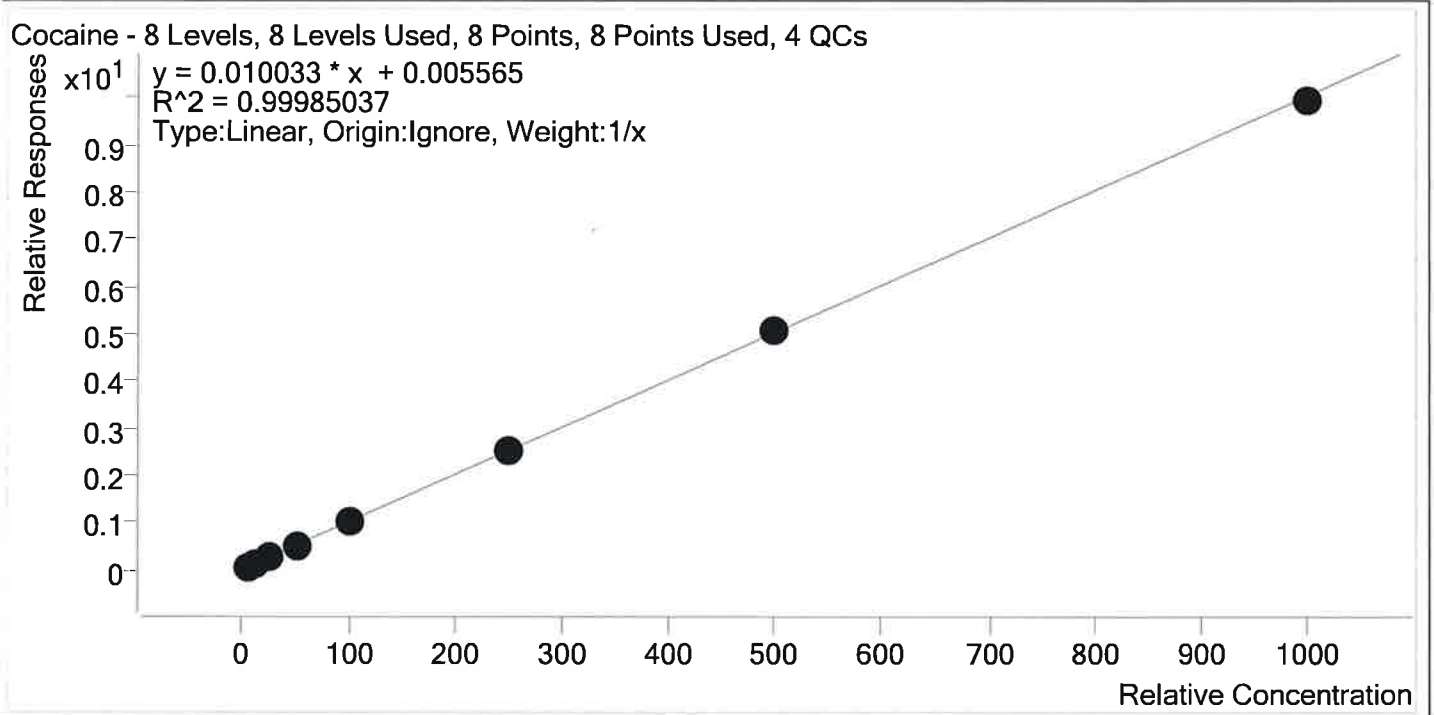
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.2
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.7
p1 Cal 4-50ng	4	✓	50.0	53.1	106.3
p1 Cal 5-100ng	5	✓	100.0	105.8	105.8
p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
p1 Cal 7-500ng	7	✓	500.0	460.4	92.1
p1 Cal 8-1000ng	8	✓	1000.0	867.5	86.8

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datator
Analyte Cocaine **Internal Standard** Cocaine-d3



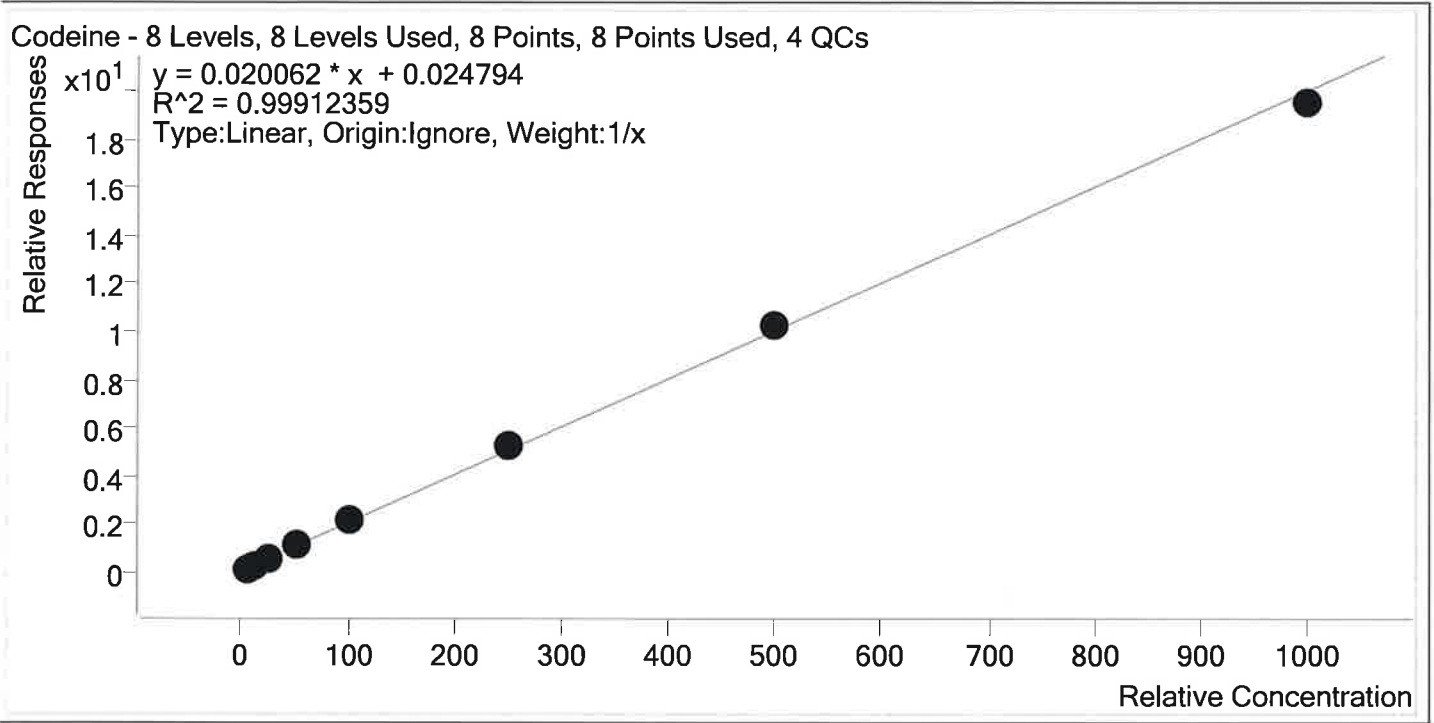
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.9
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng	4	✓	50.0	49.9	99.9
p1 Cal 5-100ng	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	506.6	101.3
p1 Cal 8-1000ng	8	✓	1000.0	989.4	98.9

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Codeine **Internal Standard** Codeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.2	84.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.7
p1 Cal 4-50ng	4	✓	50.0	52.0	103.9
p1 Cal 5-100ng	5	✓	100.0	105.6	105.6
p1 Cal 6-250ng	6	✓	250.0	257.6	103.0
p1 Cal 7-500ng	7	✓	500.0	509.3	101.9
p1 Cal 8-1000ng	8	✓	1000.0	975.4	97.5

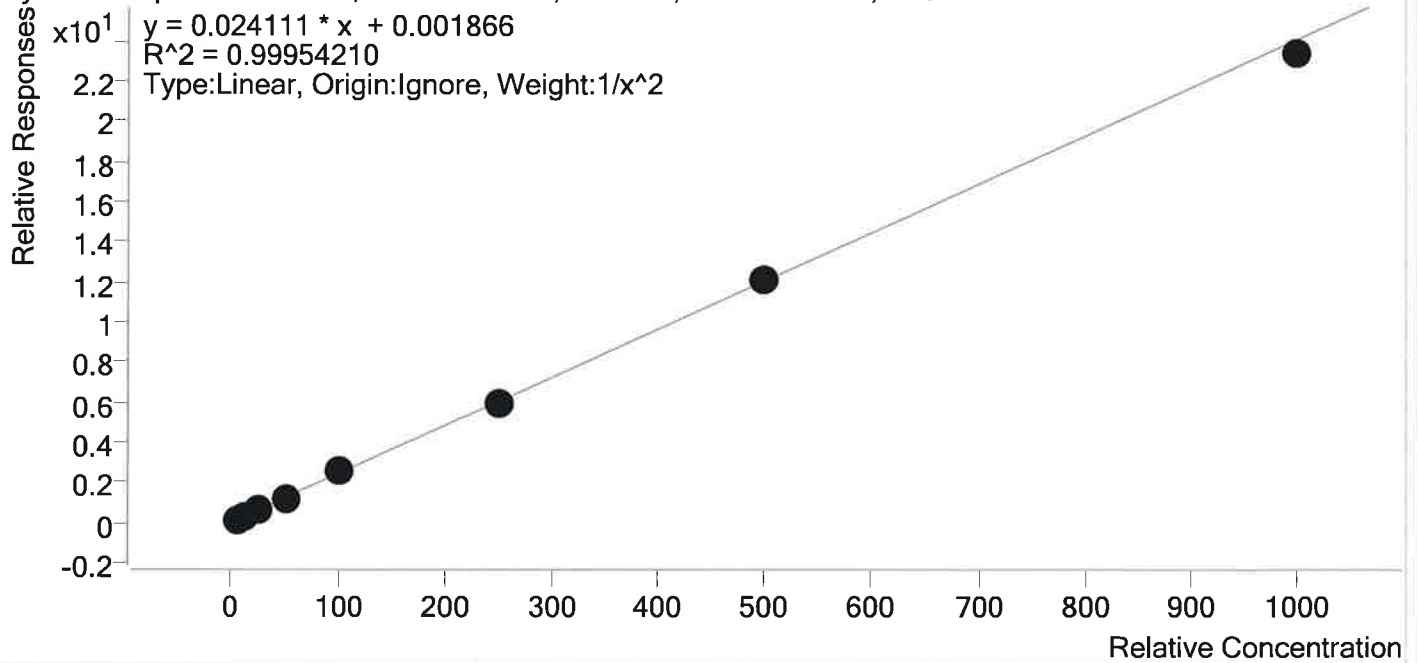
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

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



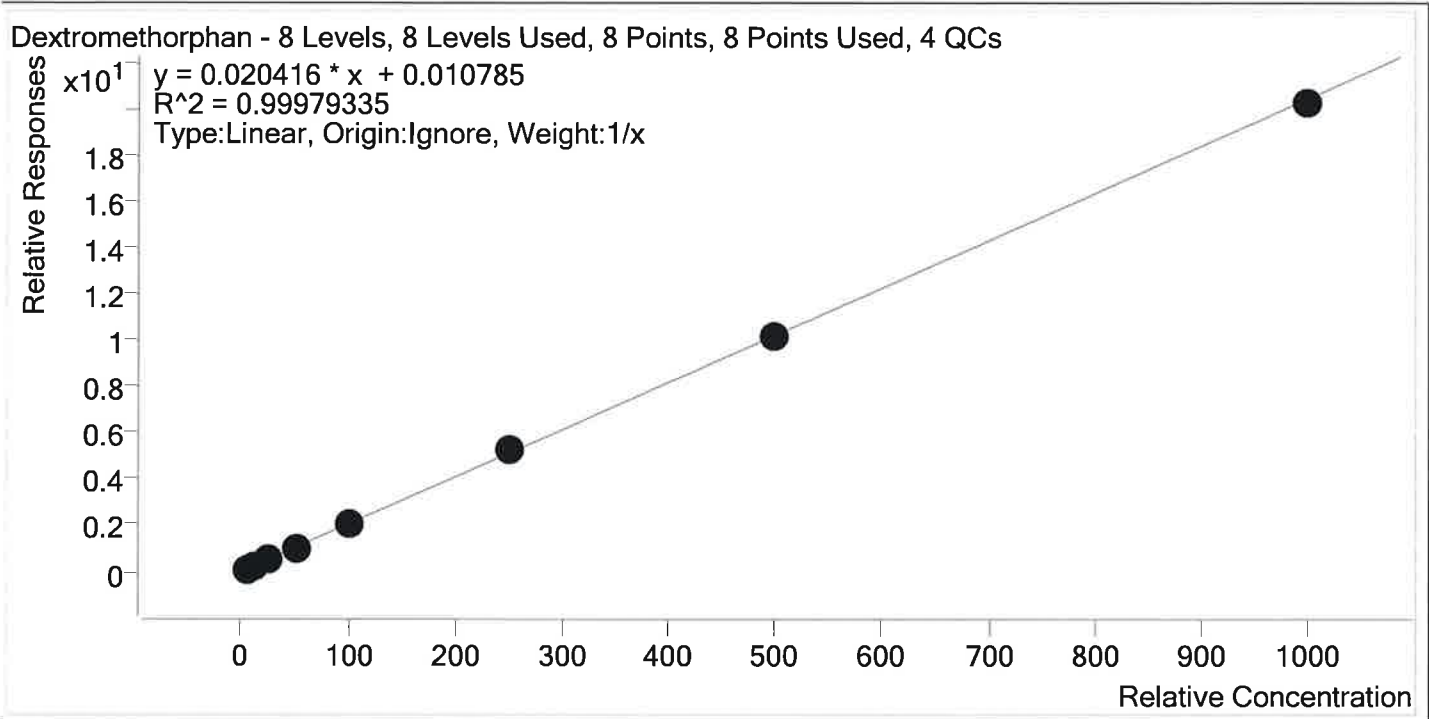
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.9
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	50.4	100.7
p1 Cal 5-100ng	5	✓	100.0	103.1	103.1
p1 Cal 6-250ng	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng	7	✓	500.0	505.3	101.1
p1 Cal 8-1000ng	8	✓	1000.0	971.1	97.1

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Dextromethorphan **Internal Standard** Dextromethorphan-D3



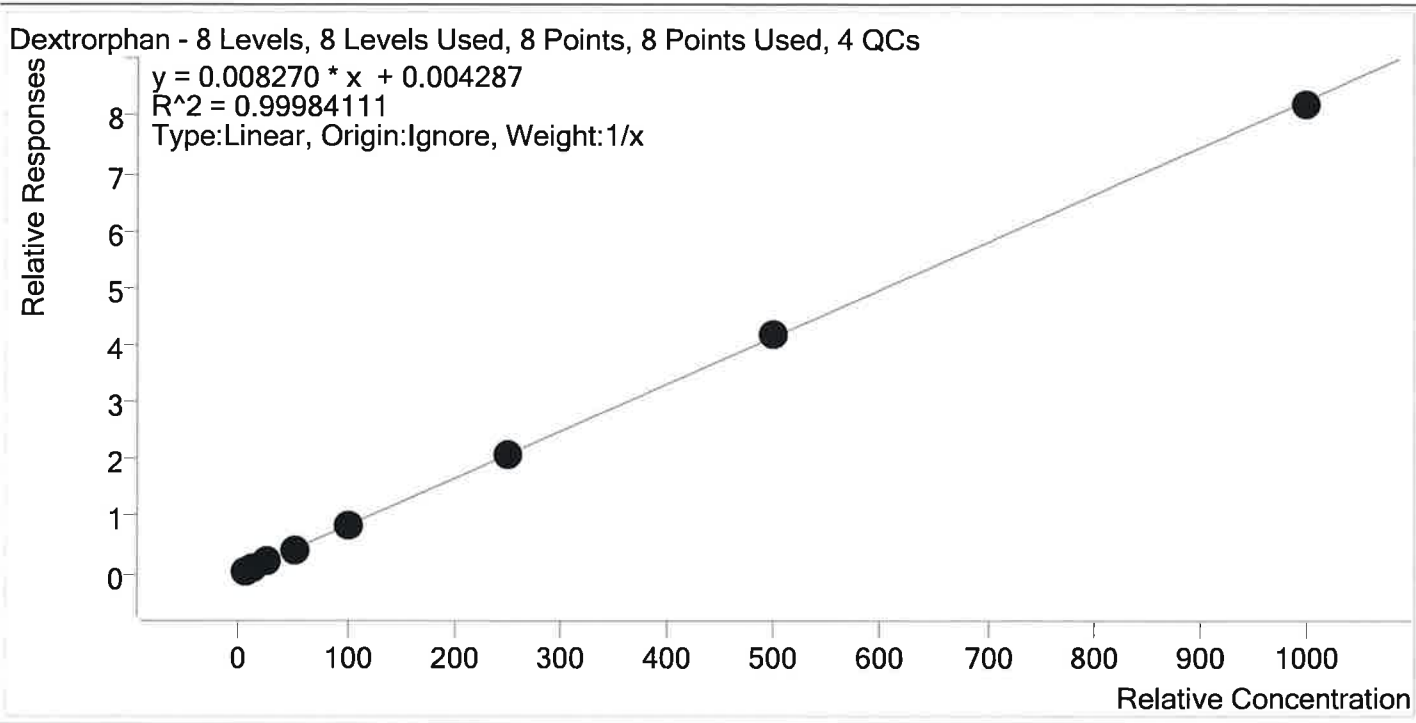
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	92.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.3
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.6
p1 Cal 4-50ng	4	✓	50.0	50.2	100.3
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	255.1	102.0
p1 Cal 7-500ng	7	✓	500.0	499.7	99.9
p1 Cal 8-1000ng	8	✓	1000.0	991.2	99.1

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TSI\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Dextrorphan **Internal Standard** Dextrorphan-D3



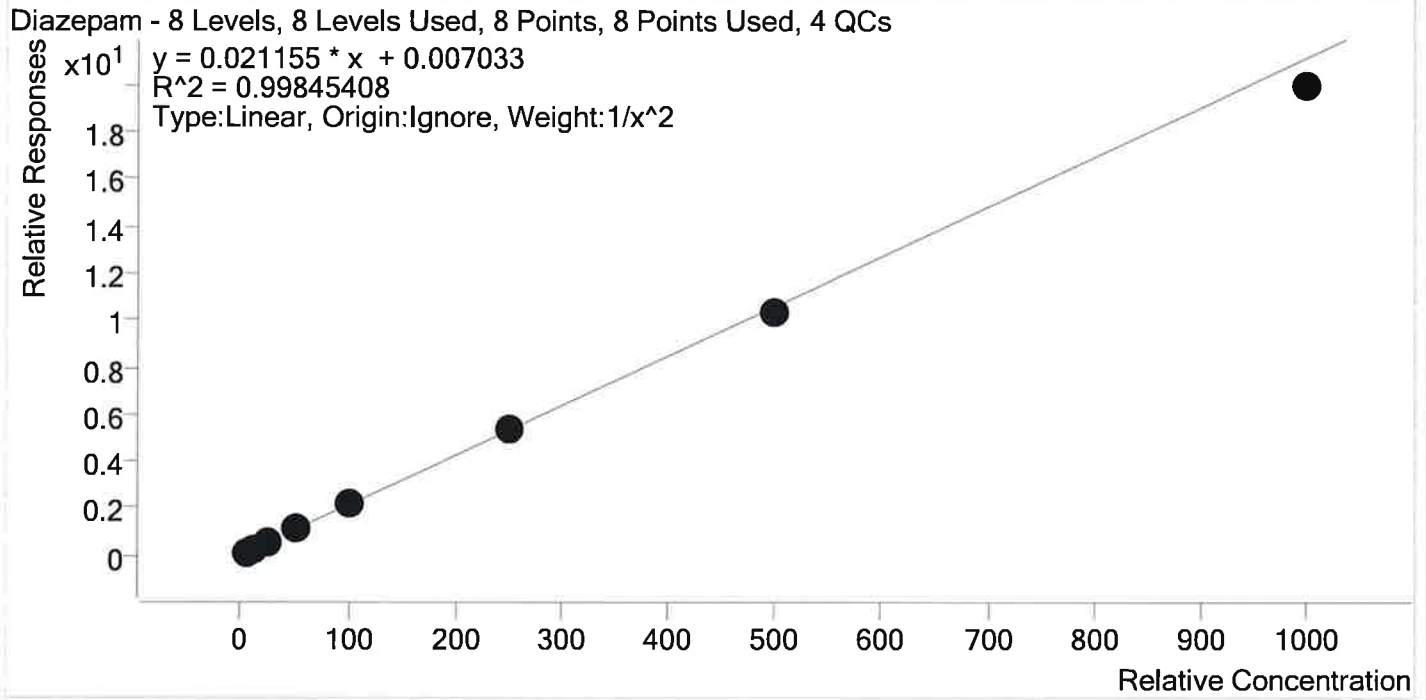
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	92.7
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.1
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	252.1	100.8
p1 Cal 7-500ng	7	✓	500.0	502.8	100.6
p1 Cal 8-1000ng	8	✓	1000.0	991.4	99.1

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Diazepam **Internal Standard** Diazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.1
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.4
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.2
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	486.7	97.3
p1 Cal 8-1000ng	8	✓	1000.0	943.5	94.4

TS



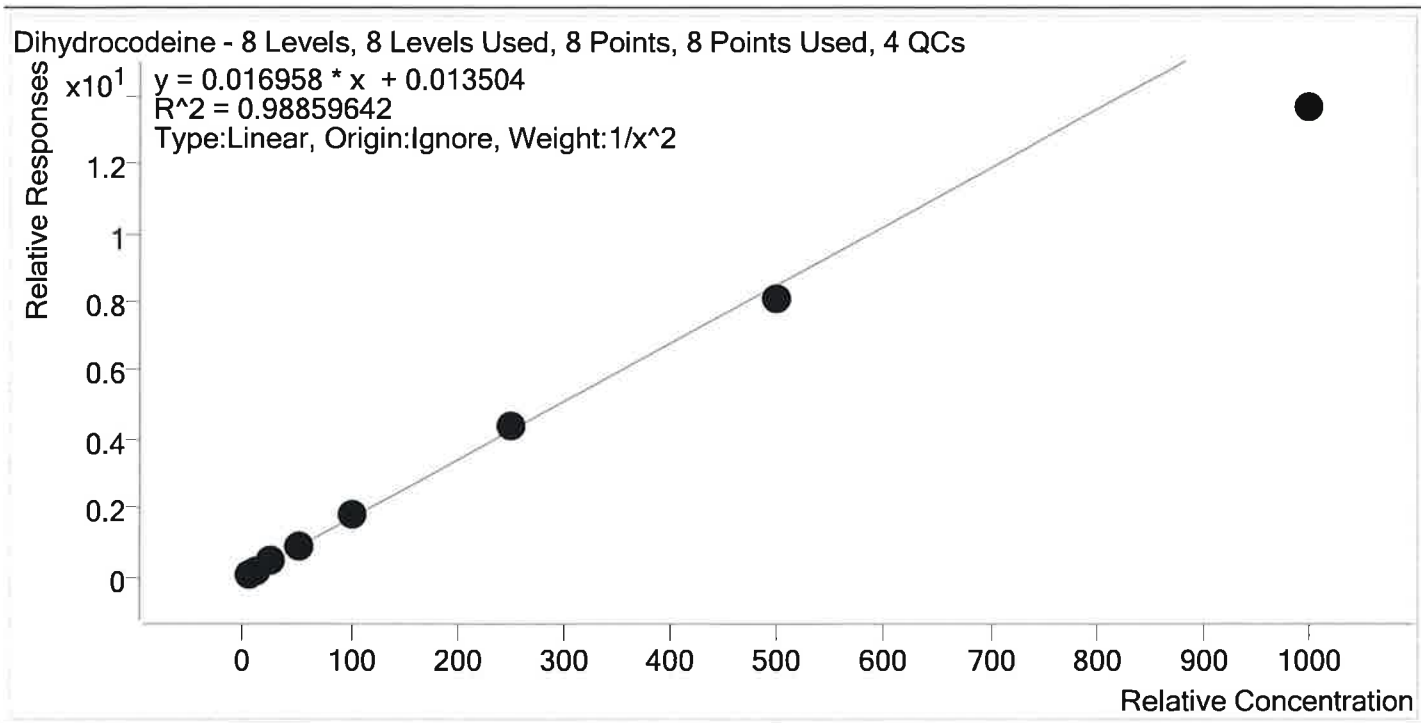
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
TS.batch.bin

Last Cal. Update 4/12/2019 7:57 AM

Analyst Name ISP\Datastor

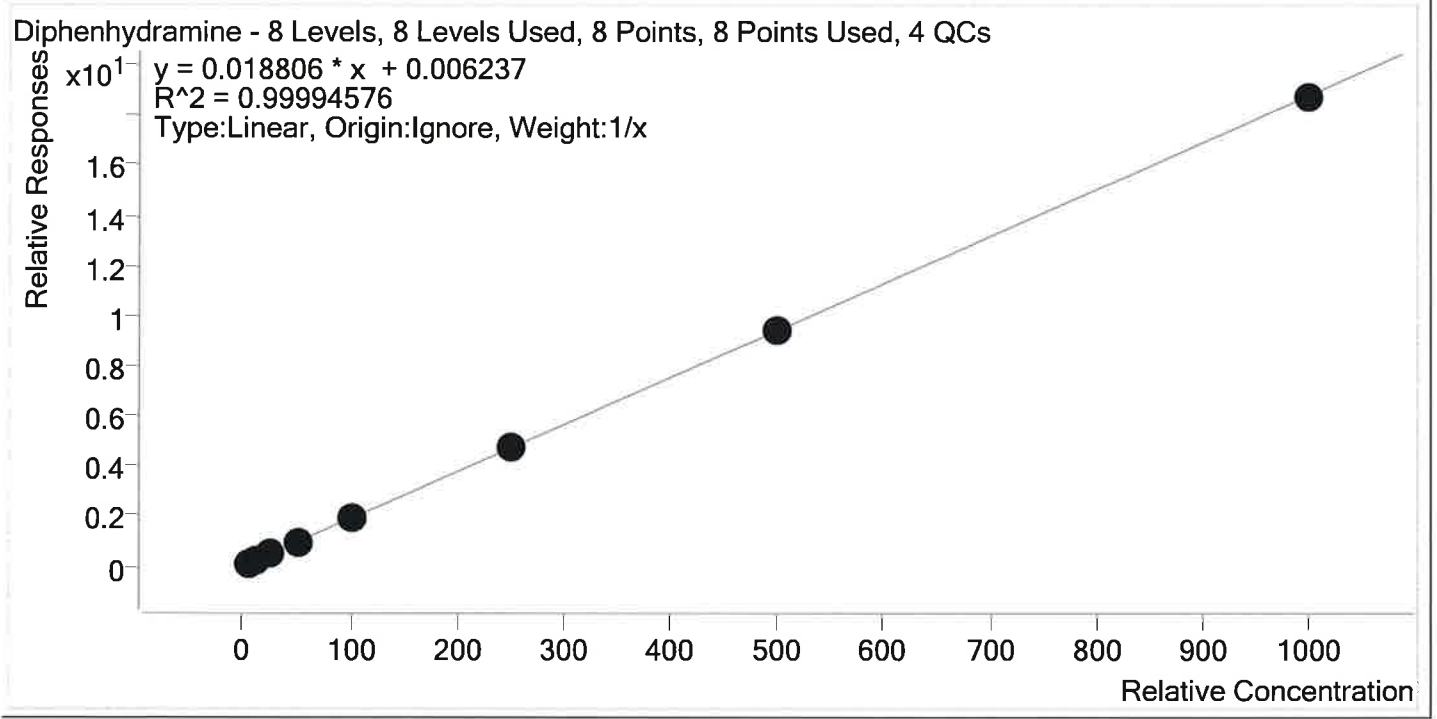
Analyte Dihydrocodeine **Internal Standard** Dihydrocodeine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.0
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.7
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.7
p1 Cal 4-50ng	4	✓	50.0	53.4	106.8
p1 Cal 5-100ng	5	✓	100.0	107.4	107.4
p1 Cal 6-250ng	6	✓	250.0	258.5	103.4
p1 Cal 7-500ng	7	✓	500.0	478.1	95.6
p1 Cal 8-1000ng	8	✓	1000.0	803.4	80.3

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Diphenhydramine **Internal Standard** Diphenhydramine-D3



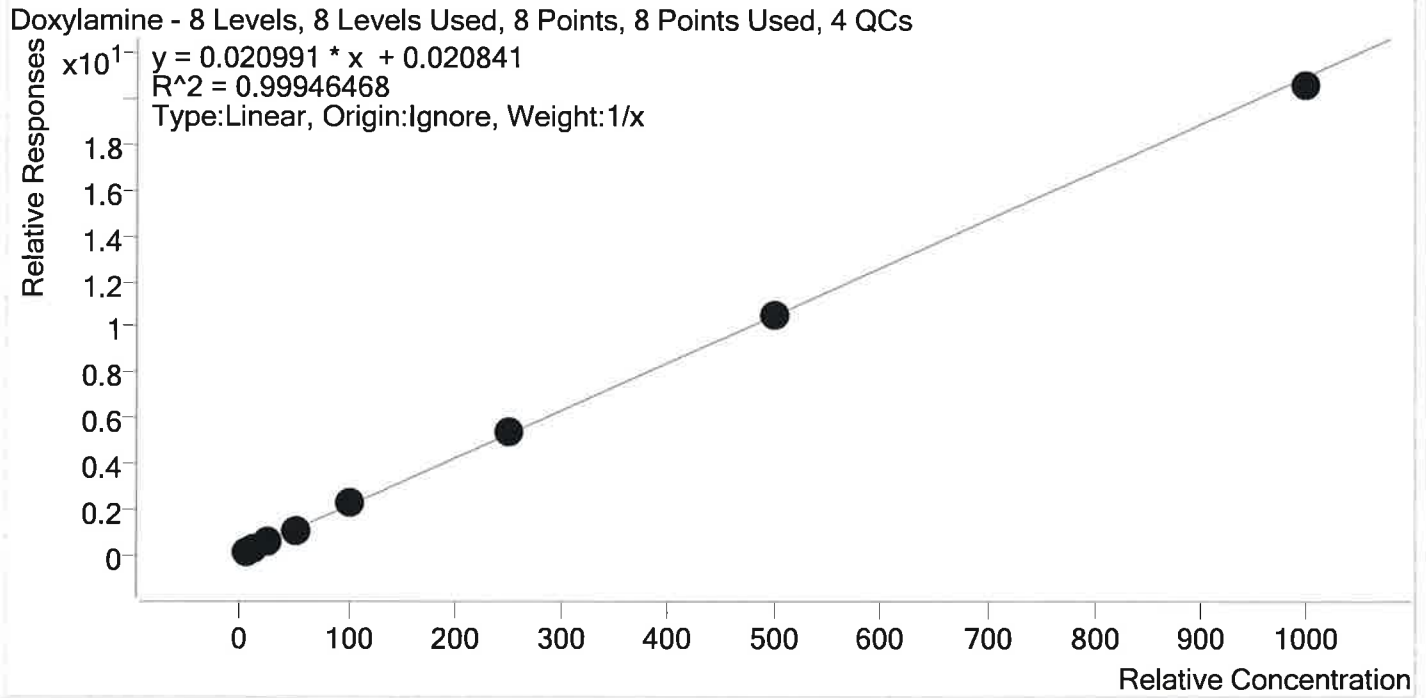
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.7
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.4
p1 Cal 4-50ng	4	✓	50.0	49.9	99.7
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	500.3	100.1
p1 Cal 8-1000ng	8	✓	1000.0	996.0	99.6

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datator
Analyte Doxylamine **Internal Standard** Doxylamine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.4	87.1
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.1
p1 Cal 4-50ng	4	✓	50.0	51.3	102.6
p1 Cal 5-100ng	5	✓	100.0	104.5	104.5
p1 Cal 6-250ng	6	✓	250.0	258.1	103.2
p1 Cal 7-500ng	7	✓	500.0	504.0	100.8
p1 Cal 8-1000ng	8	✓	1000.0	982.1	98.2

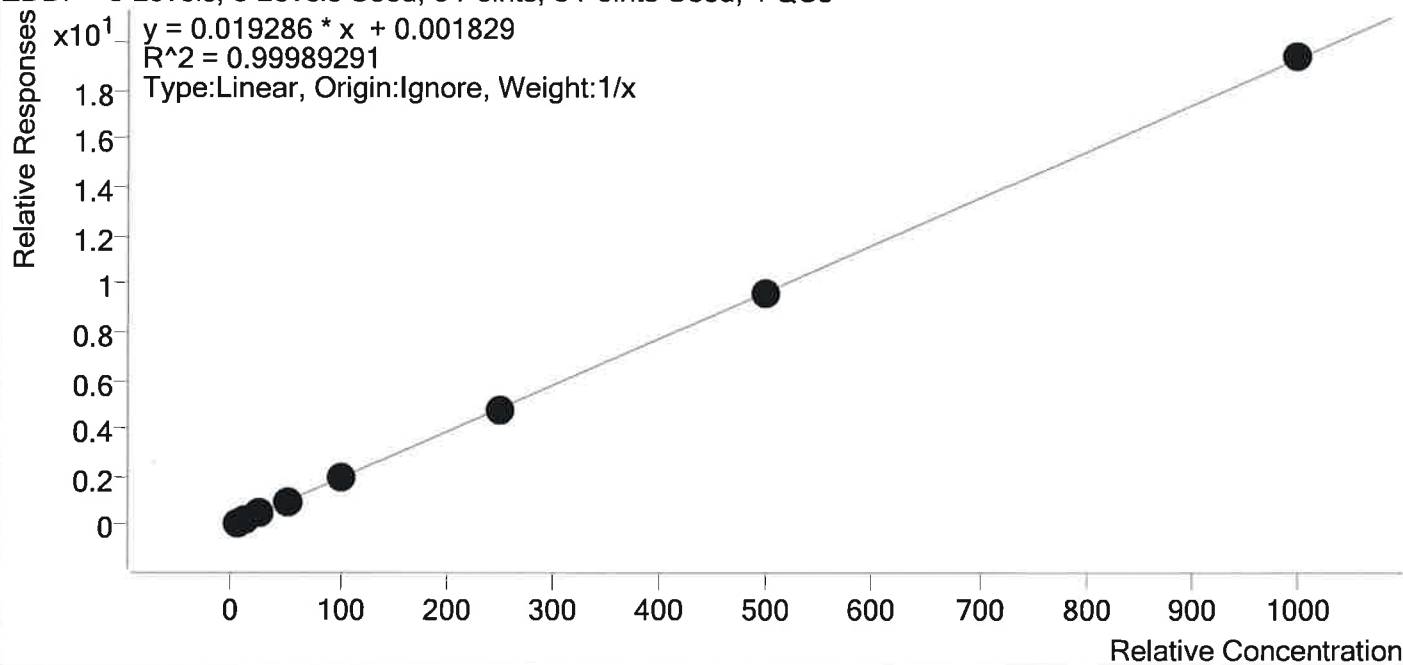
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte EDDP **Internal Standard** EDDP-D3

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



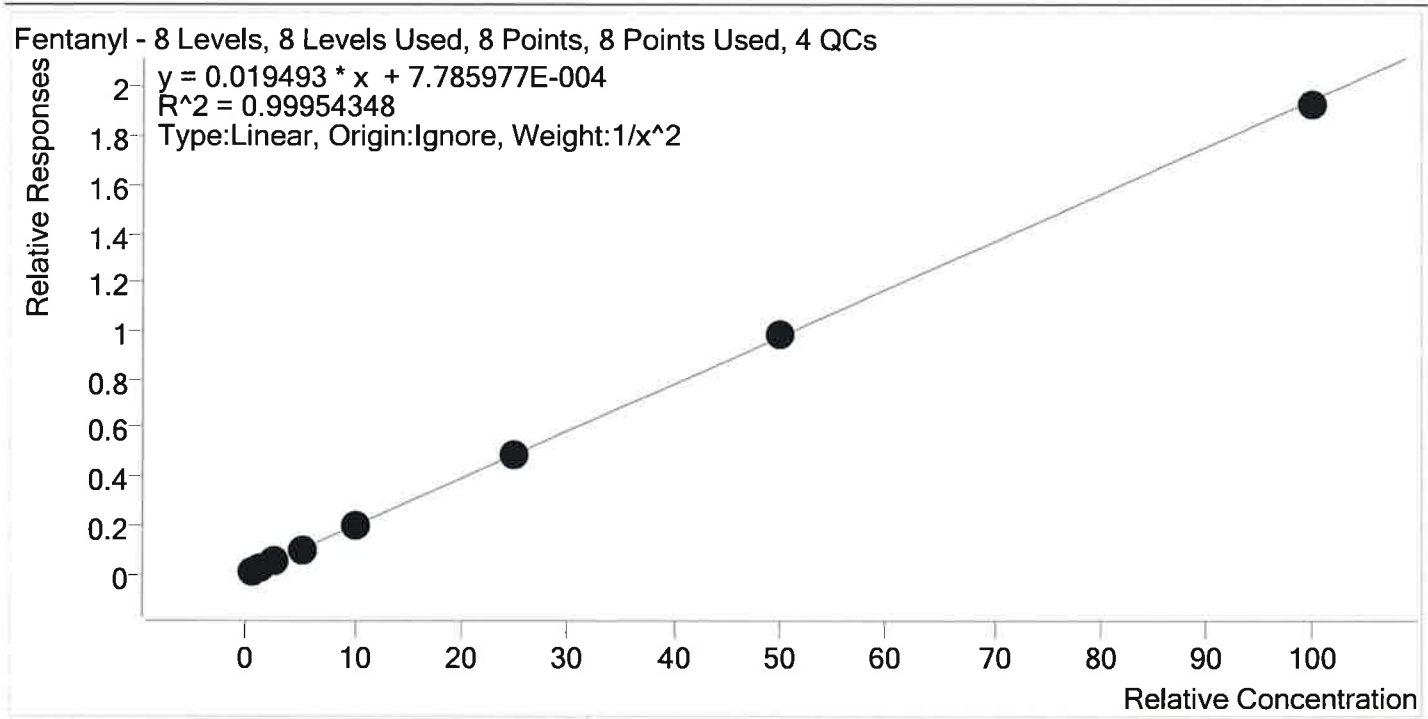
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.7
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.4
p1 Cal 4-50ng	4	✓	50.0	49.2	98.3
p1 Cal 5-100ng	5	✓	100.0	102.6	102.6
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	494.2	98.8
p1 Cal 8-1000ng	8	✓	1000.0	1005.0	100.5

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datator
Analyte Fentanyl **Internal Standard** Fentanyl-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	98.4
p1 Cal 2- 10ng	2	✓	1.0	1.0	102.8
p1 Cal 3 -25ng	3	✓	2.5	2.5	101.8
p1 Cal 4-50ng	4	✓	5.0	4.9	97.5
p1 Cal 5-100ng	5	✓	10.0	10.1	101.0
p1 Cal 6-250ng	6	✓	25.0	24.7	98.7
p1 Cal 7-500ng	7	✓	50.0	50.3	100.6
p1 Cal 8-1000ng	8	✓	100.0	99.0	99.0

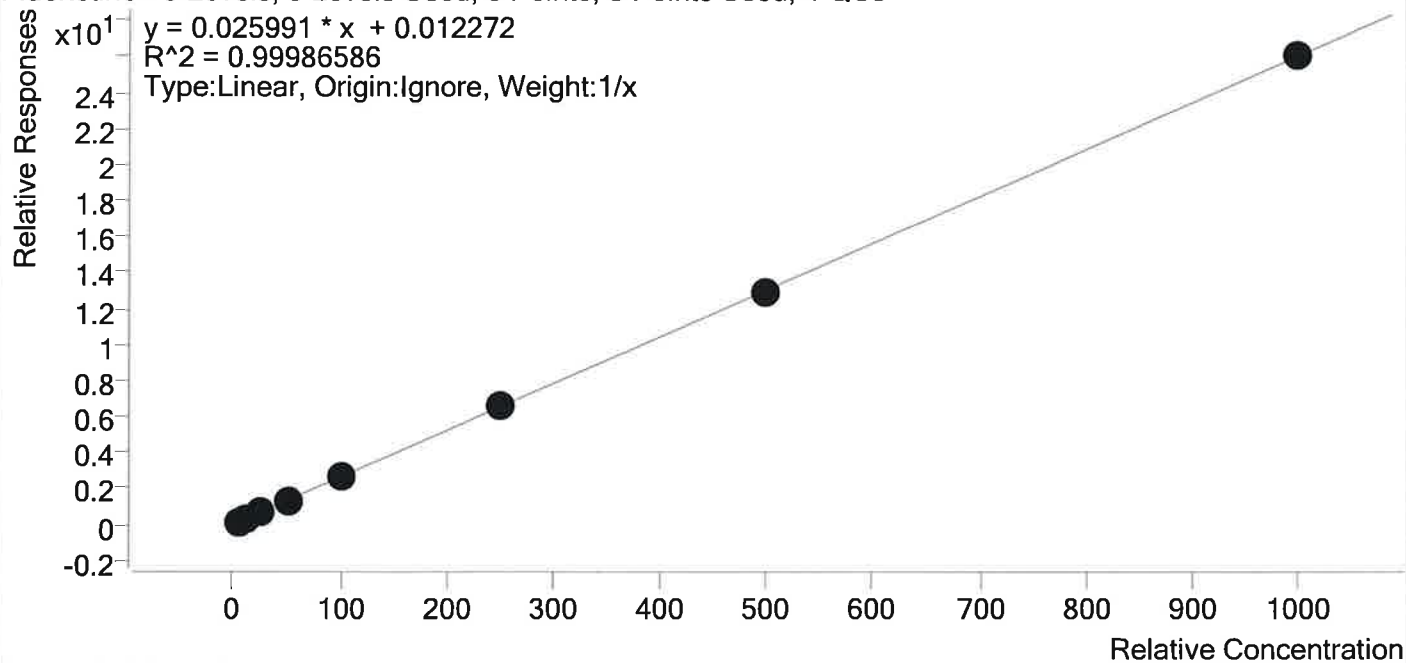
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\IP1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Fluoxetine **Internal Standard** Fluoxetine-D6

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



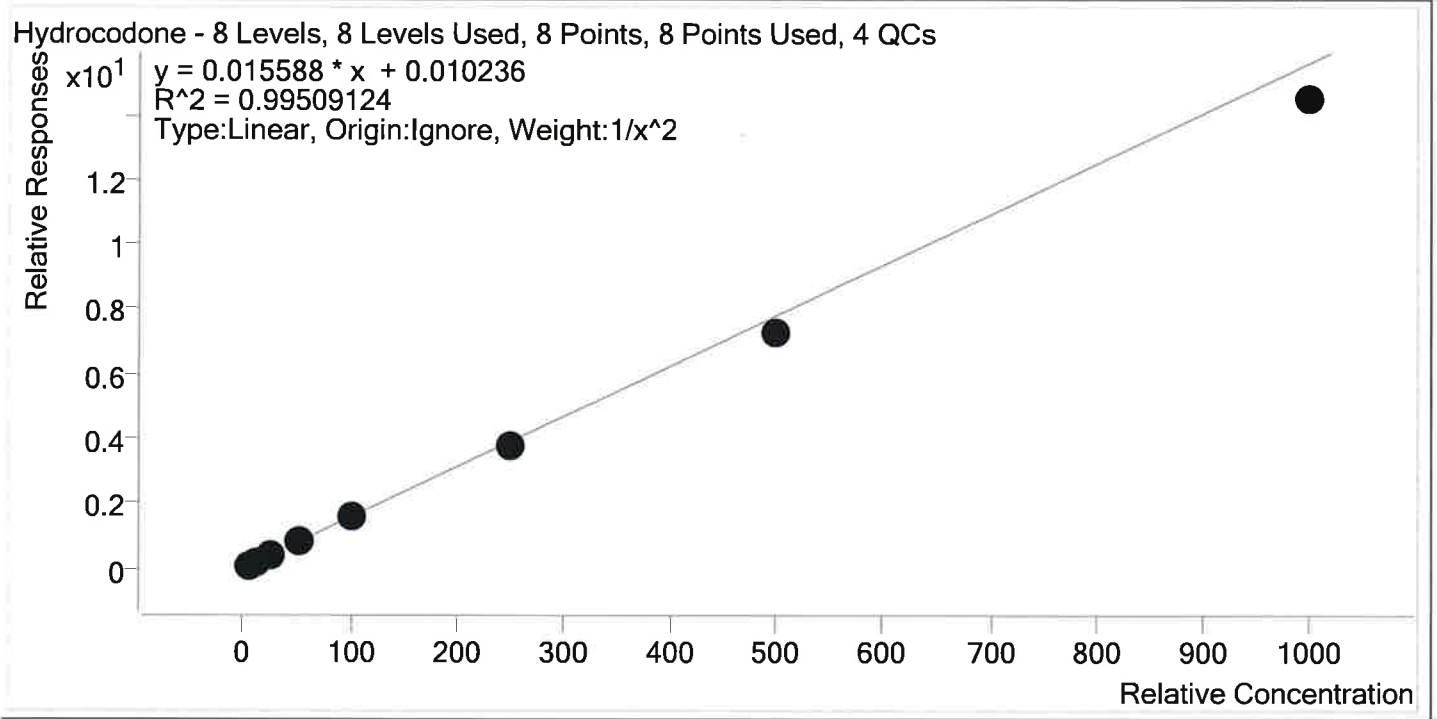
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.3
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
p1 Cal 6-250ng	6	✓	250.0	251.2	100.5
p1 Cal 7-500ng	7	✓	500.0	493.5	98.7
p1 Cal 8-1000ng	8	✓	1000.0	1001.3	100.1

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Hydrocodone **Internal Standard** Hydrocodone-D6



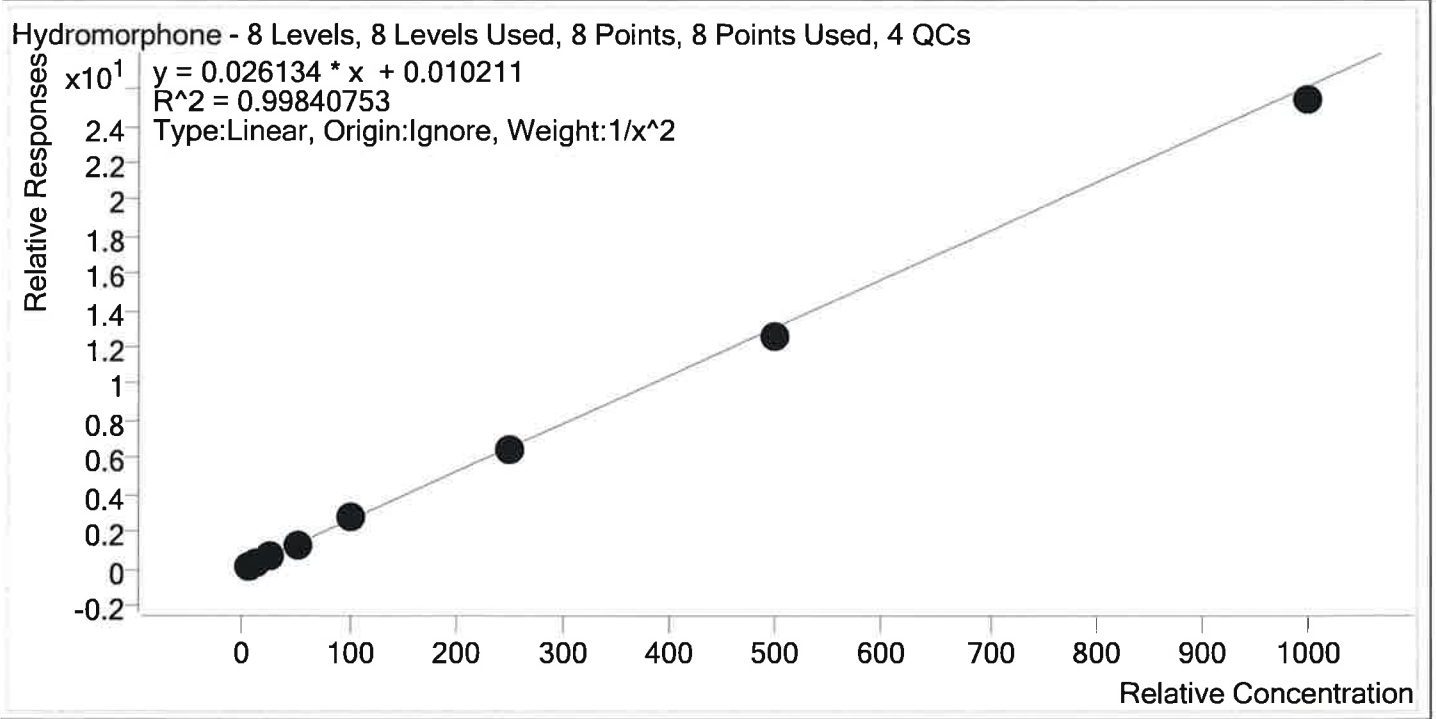
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.9
p1 Cal 4-50ng	4	✓	50.0	53.5	107.0
p1 Cal 5-100ng	5	✓	100.0	104.1	104.1
p1 Cal 6-250ng	6	✓	250.0	241.6	96.6
p1 Cal 7-500ng	7	✓	500.0	464.4	92.9
p1 Cal 8-1000ng	8	✓	1000.0	928.3	92.8

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Hydromorphone **Internal Standard** Hydromorphone-D6



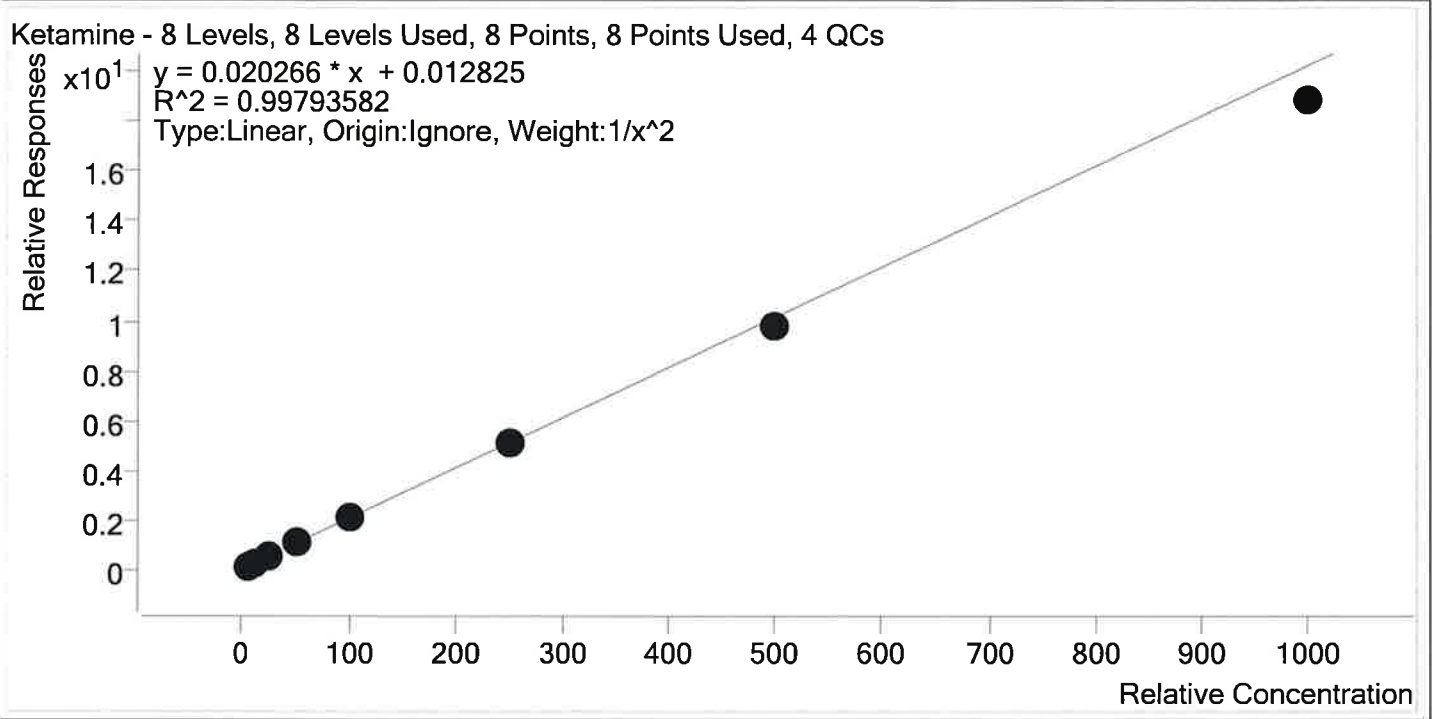
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.3
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng	5	✓	100.0	103.7	103.7
p1 Cal 6-250ng	6	✓	250.0	245.5	98.2
p1 Cal 7-500ng	7	✓	500.0	480.2	96.0
p1 Cal 8-1000ng	8	✓	1000.0	972.5	97.3

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datator
Analyte Ketamine **Internal Standard** Ketamine-D4



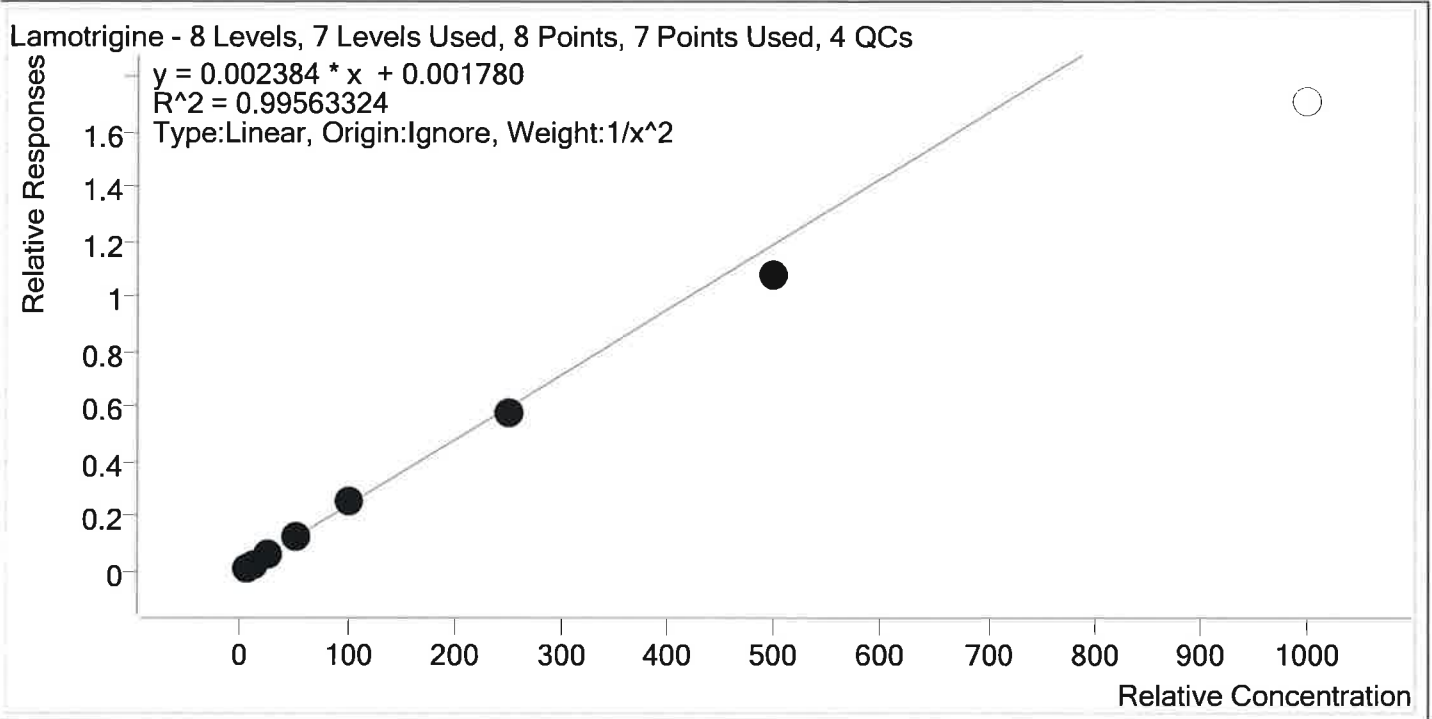
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	103.5
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	51.6	103.3
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	482.3	96.5
p1 Cal 8-1000ng	8	✓	1000.0	931.5	93.2

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TSI\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Lamotrigine **Internal Standard** Ketamine-D4



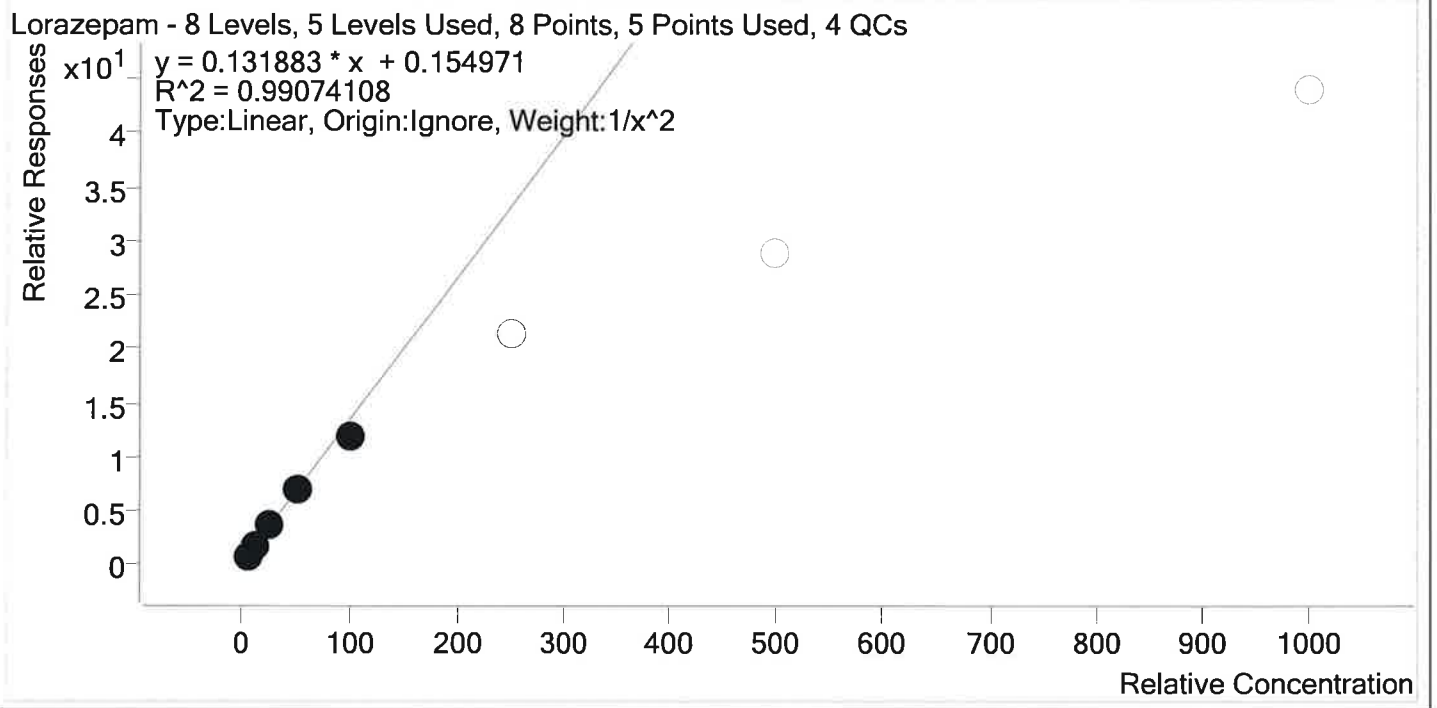
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.4
p1 Cal 4-50ng	4	✓	50.0	52.1	104.3
p1 Cal 5-100ng	5	✓	100.0	105.8	105.8
p1 Cal 6-250ng	6	✓	250.0	242.4	97.0
p1 Cal 7-500ng	7	✓	500.0	451.0	90.2
p1 Cal 8-1000ng	8	×	1000.0	717.4	71.7

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Lorazepam **Internal Standard** Clonazepam-D4



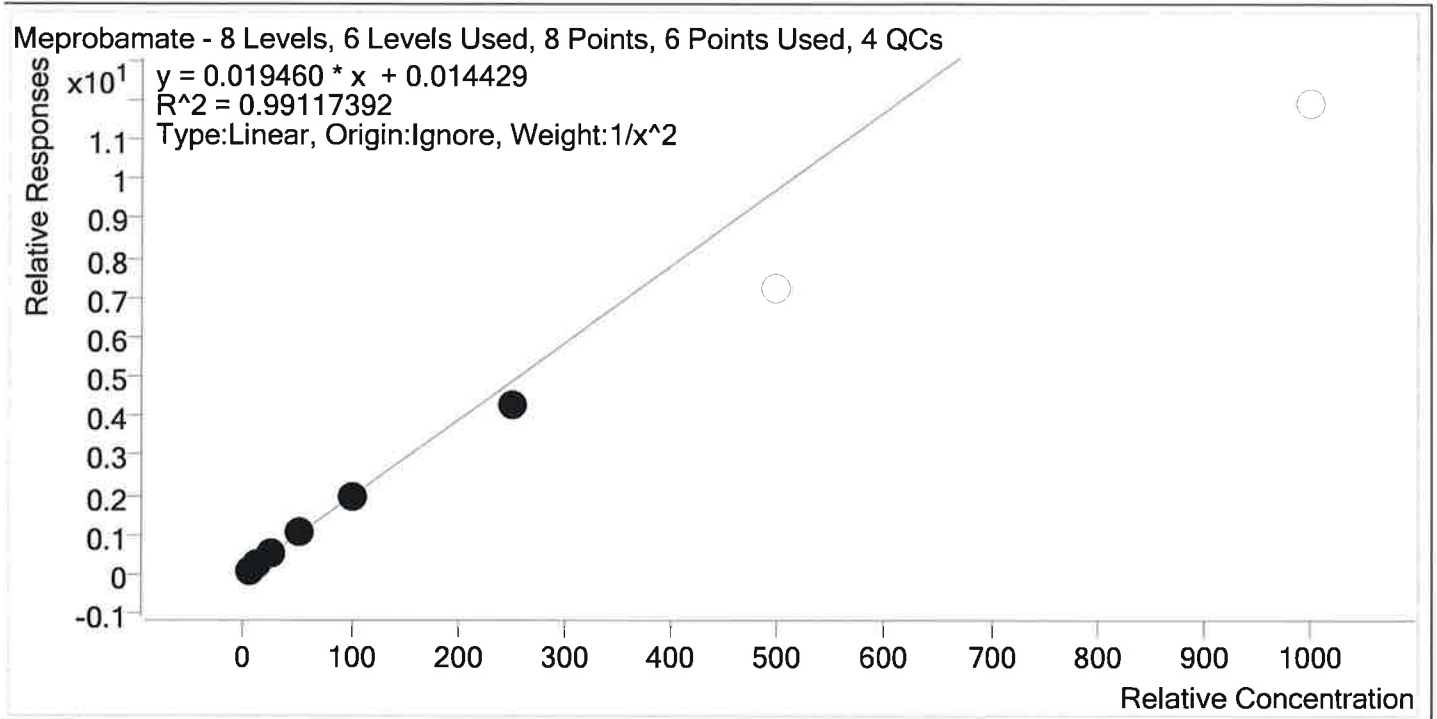
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.5
p1 Cal 2- 10ng	2	✓	10.0	10.7	107.4
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.9
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	89.6	89.6
p1 Cal 6-250ng	6	×	250.0	162.4	65.0
p1 Cal 7-500ng	7	×	500.0	219.6	43.9
p1 Cal 8-1000ng	8	×	1000.0	332.7	33.3

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datator
Analyte Meprobamate **Internal Standard** Meprobamate-D7



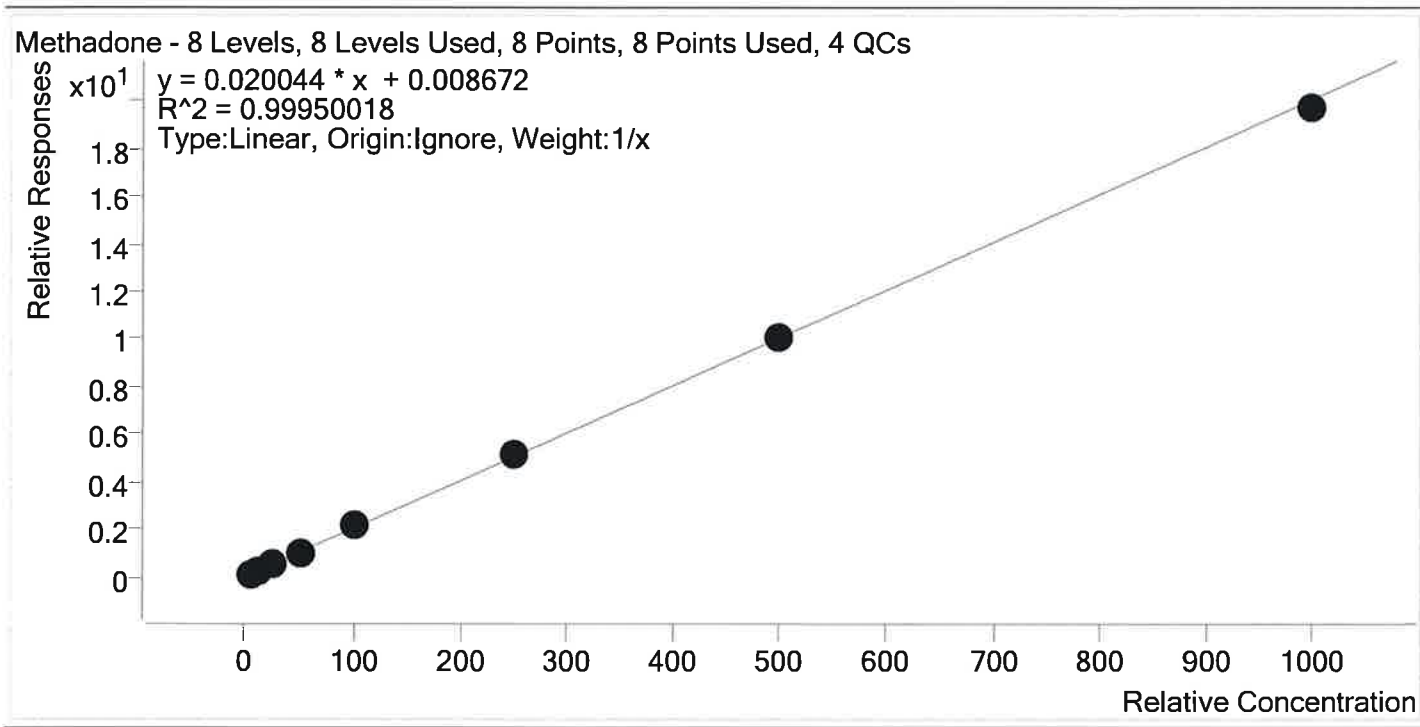
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.3
p1 Cal 2- 10ng	2	✓	10.0	11.0	109.5
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.4
p1 Cal 4-50ng	4	✓	50.0	52.3	104.6
p1 Cal 5-100ng	5	✓	100.0	100.0	100.0
p1 Cal 6-250ng	6	✓	250.0	220.4	88.2
p1 Cal 7-500ng	7	×	500.0	371.8	74.4
p1 Cal 8-1000ng	8	×	1000.0	609.9	61.0

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Methadone **Internal Standard** Methadone-D9



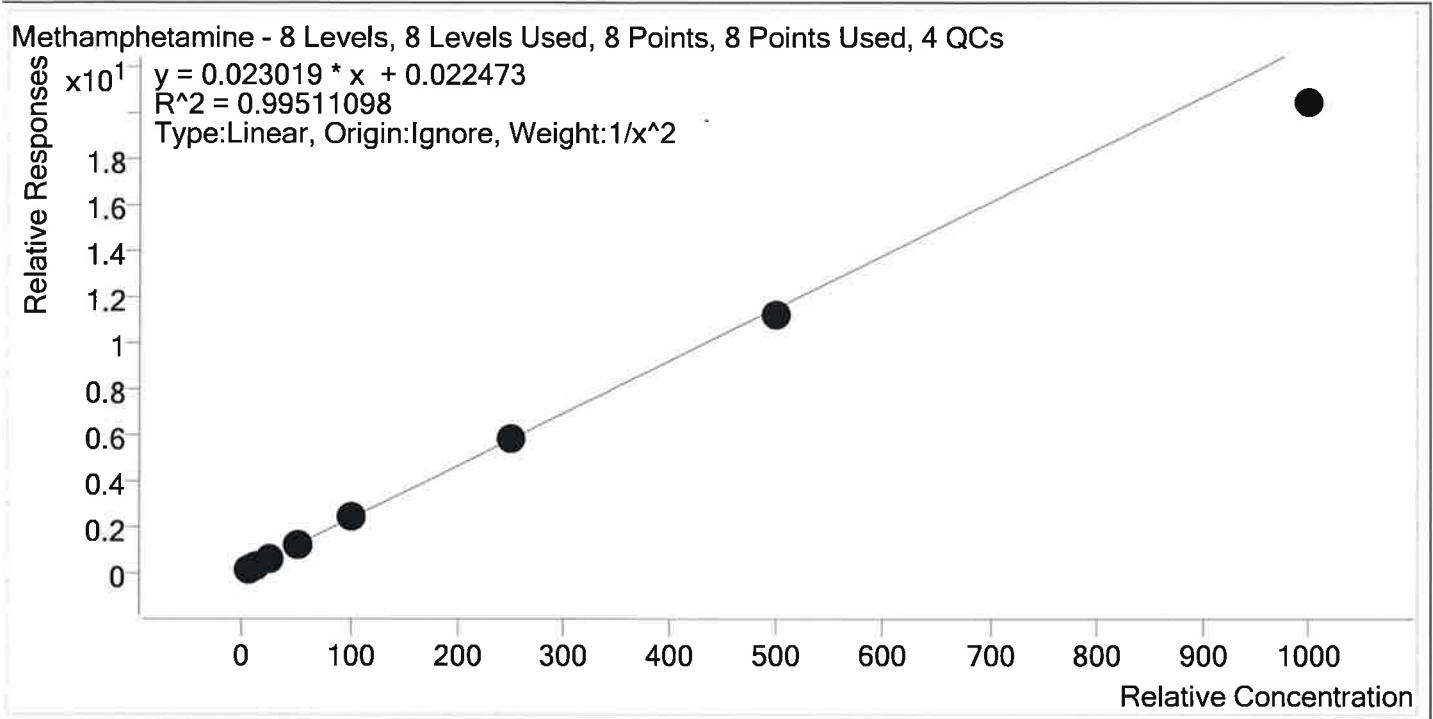
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.6	92.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	25.5	101.8
p1 Cal 4-50ng	4	✓	50.0	49.9	99.7
p1 Cal 5-100ng	5	✓	100.0	104.0	104.0
p1 Cal 6-250ng	6	✓	250.0	259.7	103.9
p1 Cal 7-500ng	7	✓	500.0	503.5	100.7
p1 Cal 8-1000ng	8	✓	1000.0	983.0	98.3

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Methamphetamine **Internal Standard** Methamphetamine-D11



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.8
p1 Cal 2- 10ng	2	✓	10.0	10.8	108.4
p1 Cal 3 -25ng	3	✓	25.0	25.7	103.0
p1 Cal 4-50ng	4	✓	50.0	51.6	103.2
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	251.9	100.8
p1 Cal 7-500ng	7	✓	500.0	487.9	97.6
p1 Cal 8-1000ng	8	✓	1000.0	888.9	88.9

TS



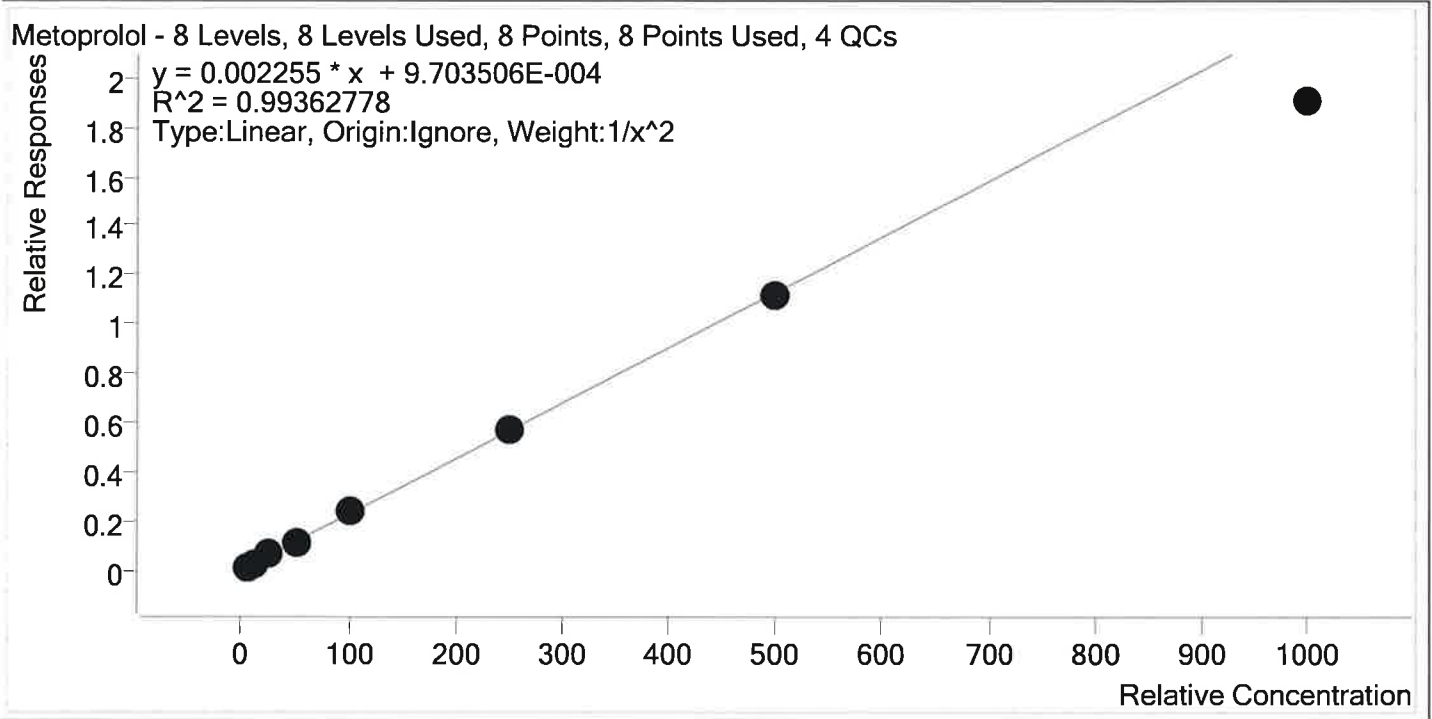
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TSI\QuantResults\P1 wk1st 3238
TS.batch.bin

Last Cal. Update 4/12/2019 7:57 AM

Analyst Name ISP\Datastor

Analyte Metoprolol **Internal Standard** Tramadol-13C-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.1
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	105.4	105.4
p1 Cal 6-250ng	6	✓	250.0	254.9	101.9
p1 Cal 7-500ng	7	✓	500.0	497.2	99.4
p1 Cal 8-1000ng	8	✓	1000.0	845.2	84.5

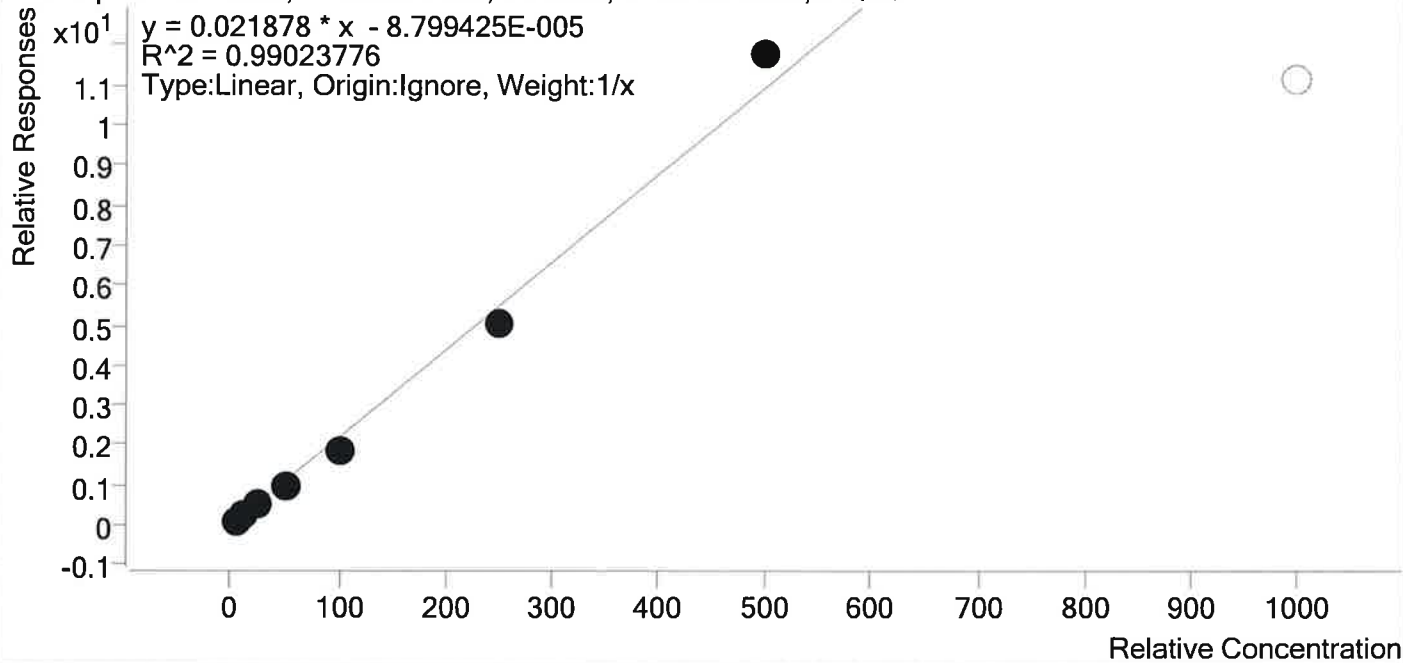
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Mirtazapine **Internal Standard** alpha-PVP-d8

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



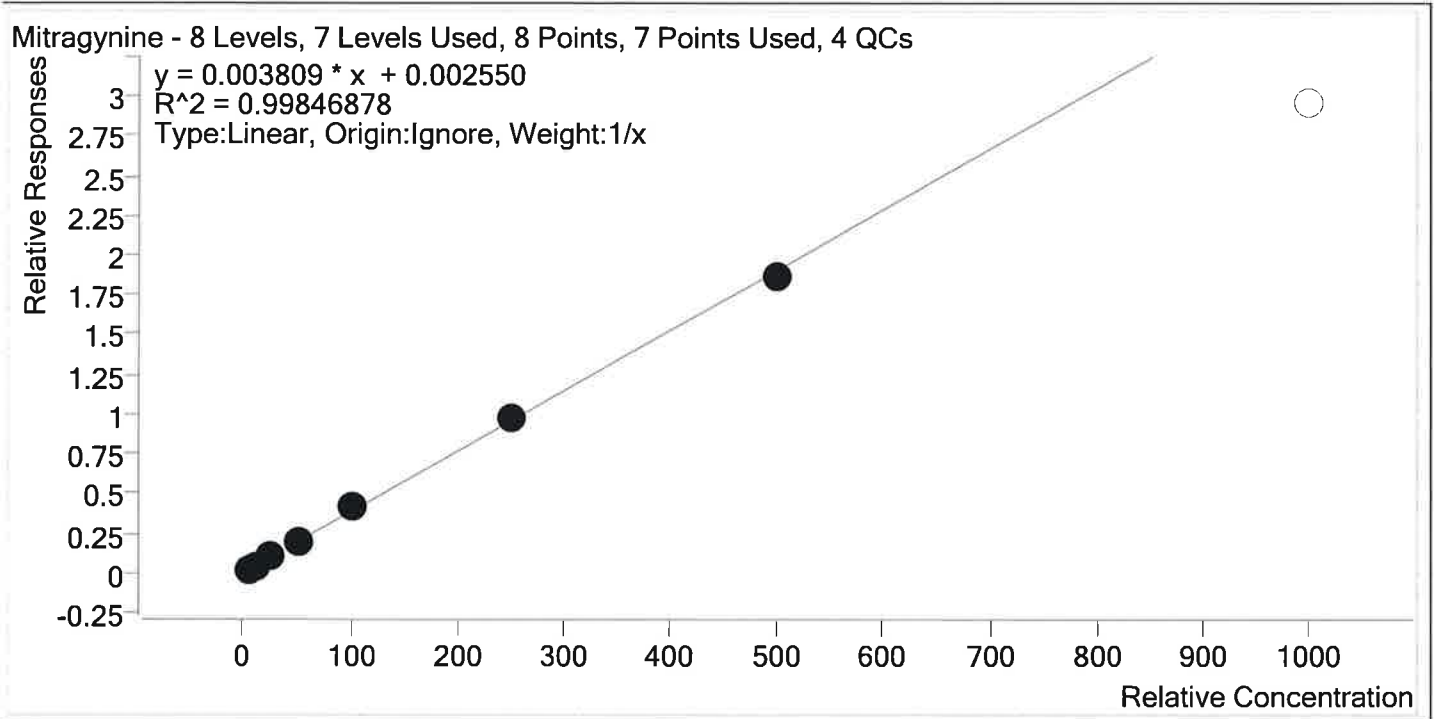
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2- 10ng	2	✓	10.0	12.6	126.5
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.6
p1 Cal 4-50ng	4	✓	50.0	45.2	90.4
p1 Cal 5-100ng	5	✓	100.0	85.2	85.2
p1 Cal 6-250ng	6	✓	250.0	228.9	91.5
p1 Cal 7-500ng	7	✓	500.0	537.6	107.5
p1 Cal 8-1000ng	8	×	1000.0	511.1	51.1

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Mitragynine **Internal Standard** Methadone-D9

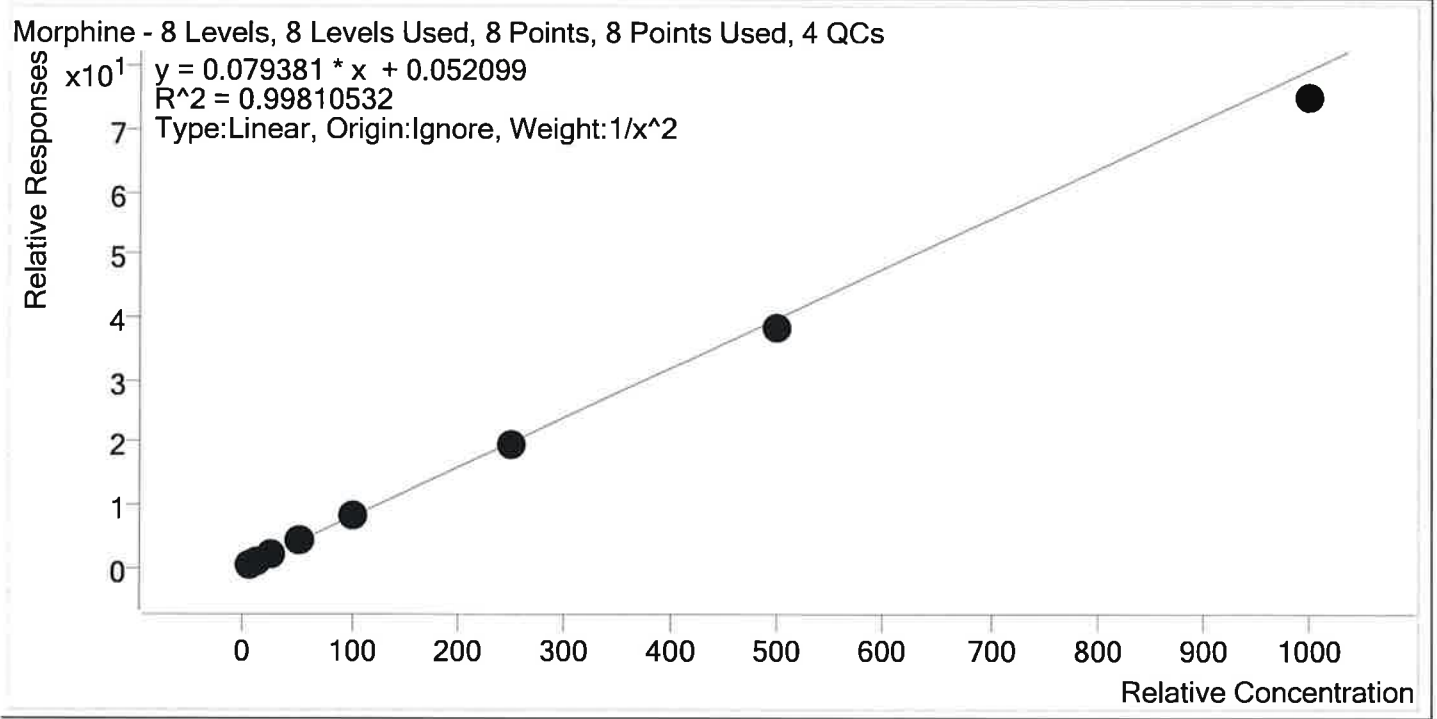


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.6
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.1
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.2
p1 Cal 4-50ng	4	✓	50.0	47.8	95.5
p1 Cal 5-100ng	5	✓	100.0	107.2	107.2
p1 Cal 6-250ng	6	✓	250.0	257.5	103.0
p1 Cal 7-500ng	7	✓	500.0	487.4	97.5
p1 Cal 8-1000ng	8	×	1000.0	775.6	77.6



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Morphine **Internal Standard** Morphine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.4	104.2
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.3
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	480.9	96.2
p1 Cal 8-1000ng	8	✓	1000.0	943.3	94.3

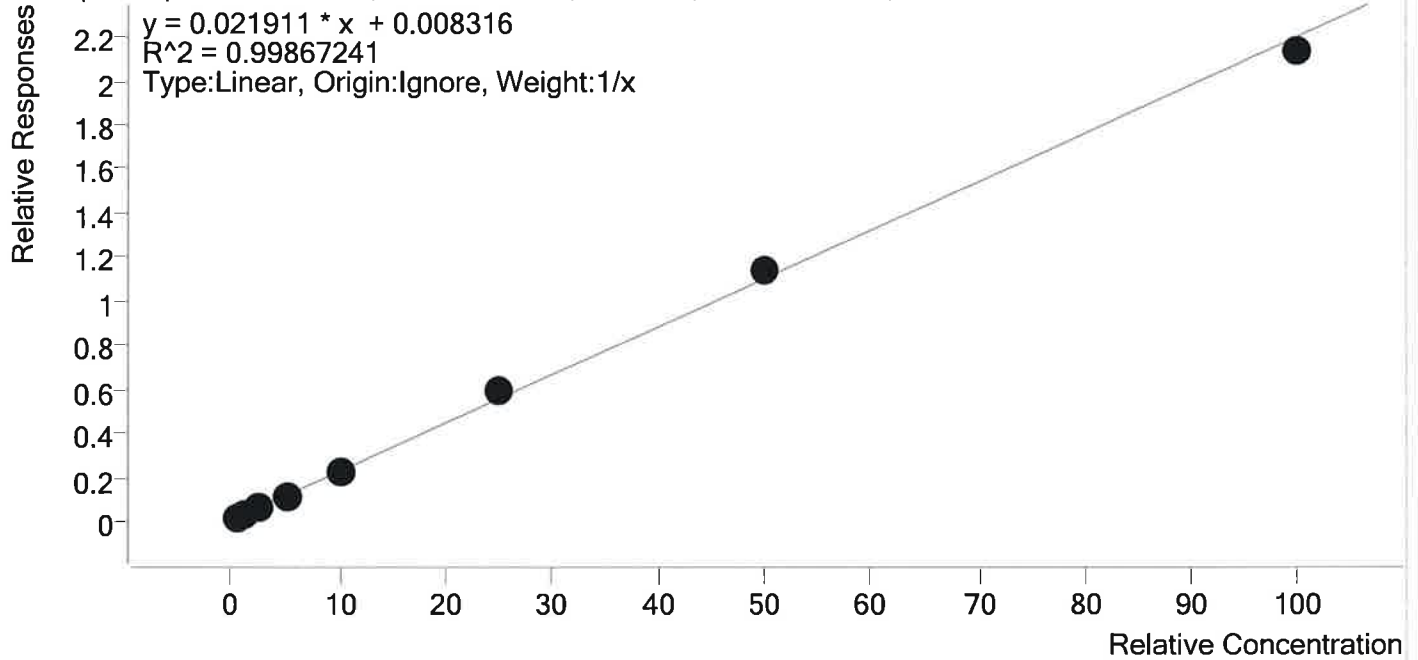
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

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



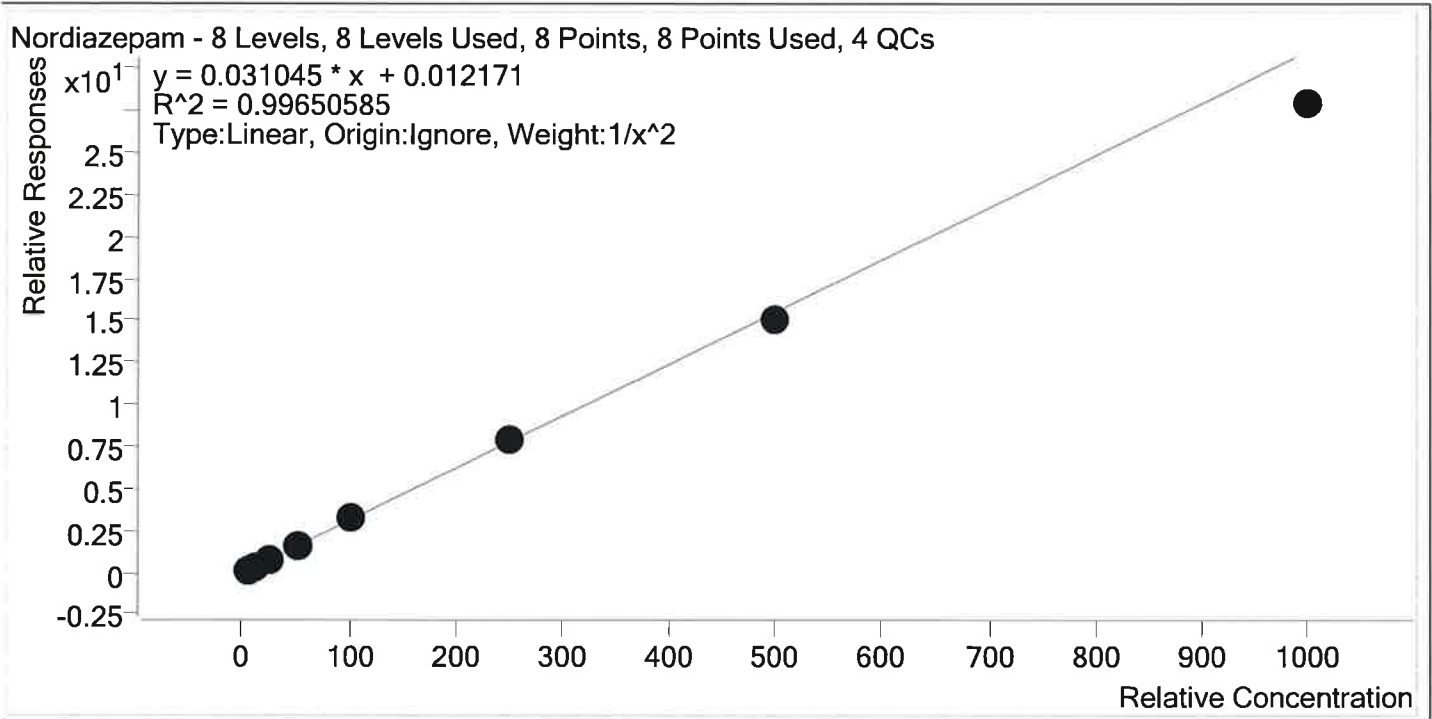
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	91.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.9
p1 Cal 3 -25ng	3	✓	2.5	2.6	104.2
p1 Cal 4-50ng	4	✓	5.0	5.0	100.7
p1 Cal 5-100ng	5	✓	10.0	9.8	98.1
p1 Cal 6-250ng	6	✓	25.0	26.5	106.0
p1 Cal 7-500ng	7	✓	50.0	51.5	103.1
p1 Cal 8-1000ng	8	✓	100.0	97.1	97.1

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TSI\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Nordiazepam **Internal Standard** Nordiazepam-D5



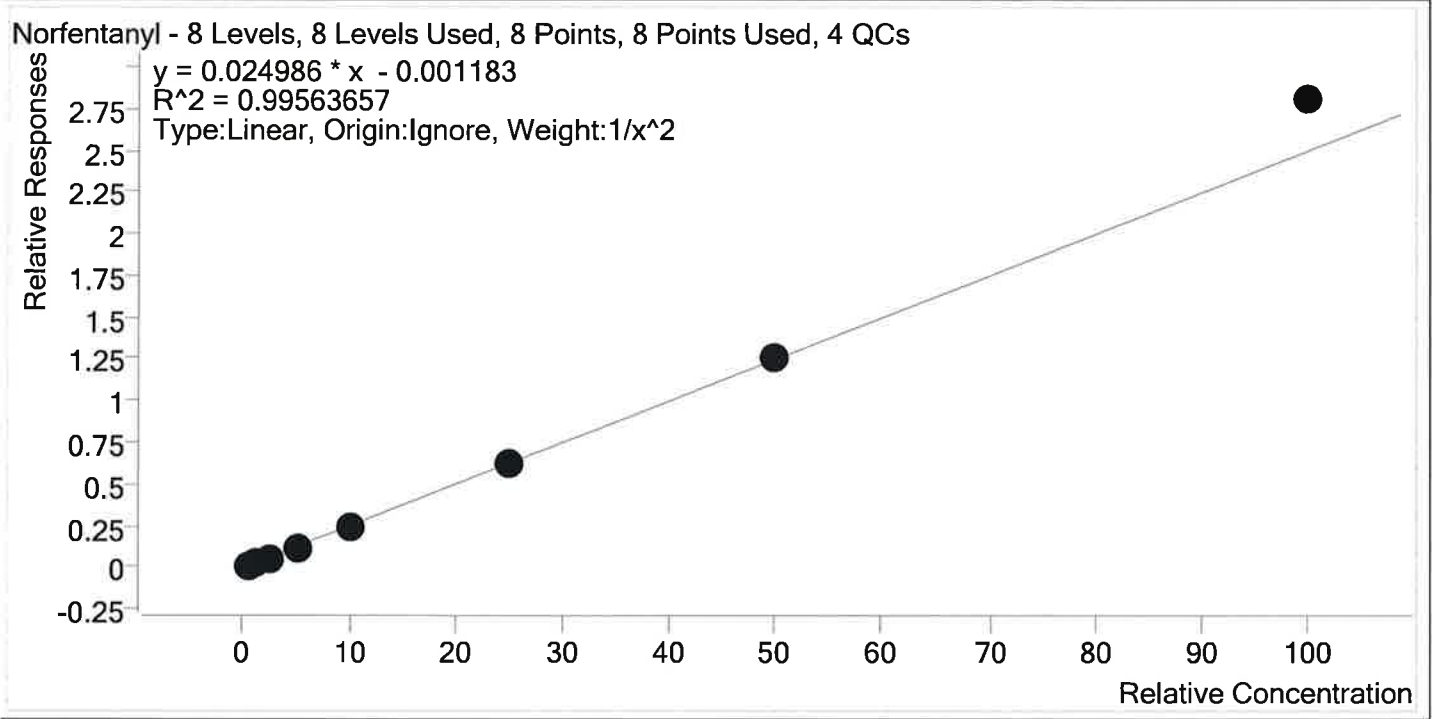
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.6
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✓	25.0	25.7	103.0
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	105.3	105.3
p1 Cal 6-250ng	6	✓	250.0	254.0	101.6
p1 Cal 7-500ng	7	✓	500.0	486.9	97.4
p1 Cal 8-1000ng	8	✓	1000.0	899.0	89.9

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\IP1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Norfentanyl **Internal Standard** Norfentanyl-D5



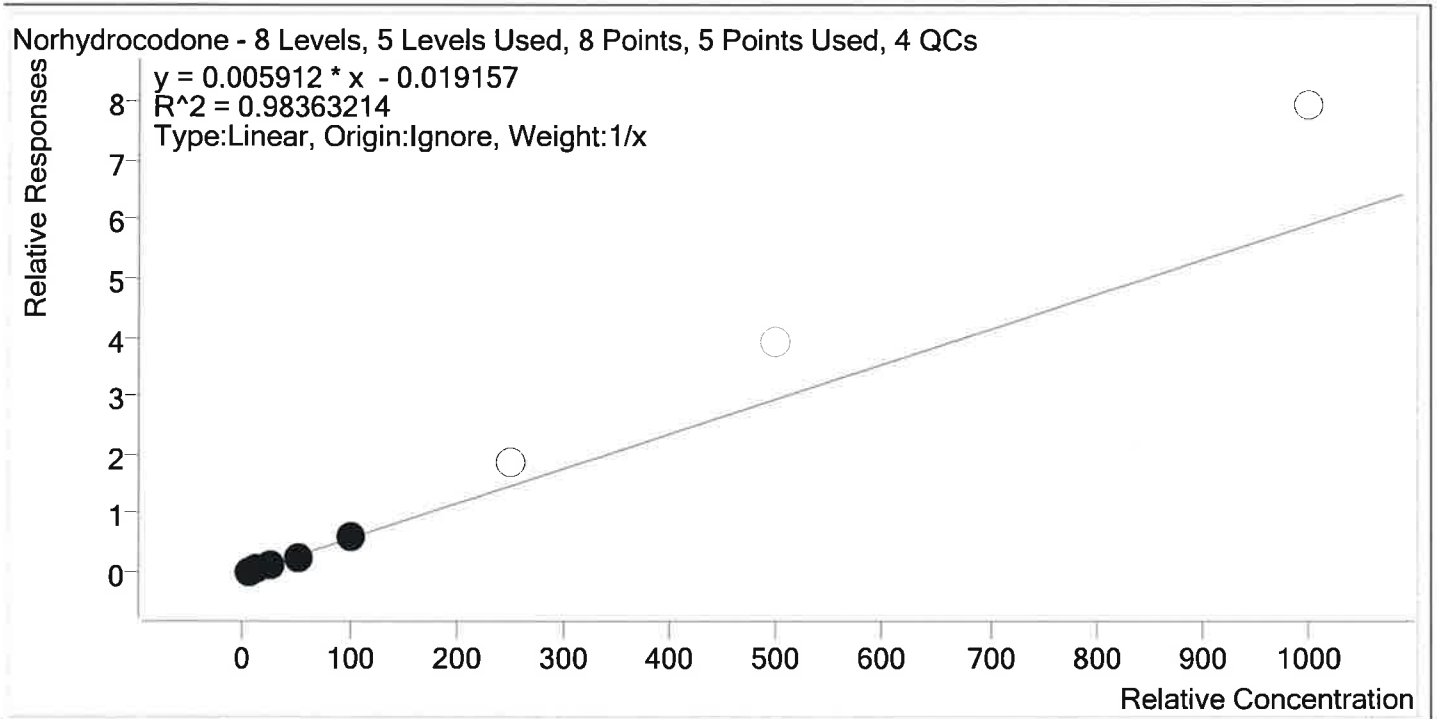
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.9
p1 Cal 2- 10ng	2	✓	1.0	1.0	99.6
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.4
p1 Cal 4-50ng	4	✓	5.0	4.8	95.2
p1 Cal 5-100ng	5	✓	10.0	9.6	96.3
p1 Cal 6-250ng	6	✓	25.0	24.6	98.5
p1 Cal 7-500ng	7	✓	50.0	50.9	101.7
p1 Cal 8-1000ng	8	✓	100.0	112.4	112.4

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Norhydrocodone **Internal Standard** Norhydrocodone-D3



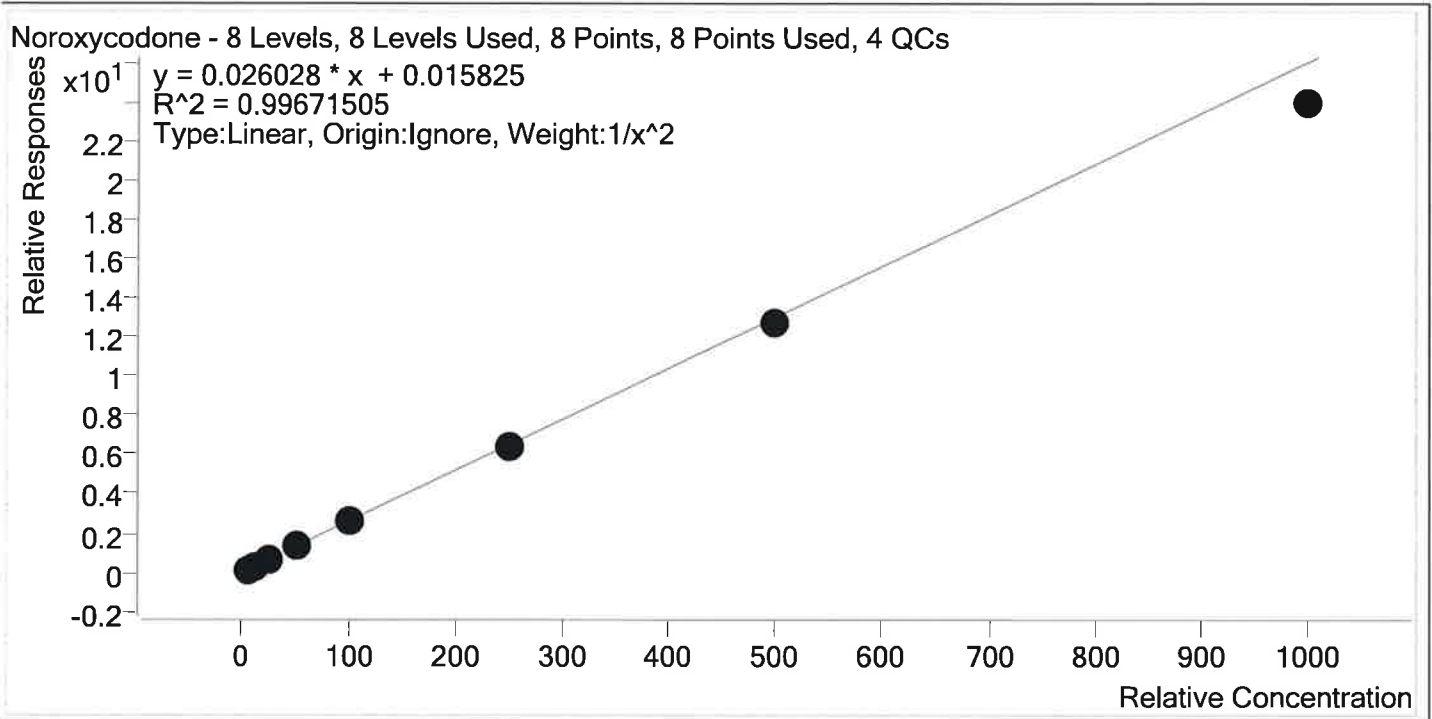
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.0	119.4
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.5
p1 Cal 3 -25ng	3	✓	25.0	21.0	83.9
p1 Cal 4-50ng	4	✓	50.0	44.9	89.9
p1 Cal 5-100ng	5	✓	100.0	108.3	108.3
p1 Cal 6-250ng	6	×	250.0	320.0	128.0
p1 Cal 7-500ng	7	×	500.0	661.2	132.2
p1 Cal 8-1000ng	8	×	1000.0	1343.5	134.4

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Noroxycodone **Internal Standard** Noroxycodone-D3



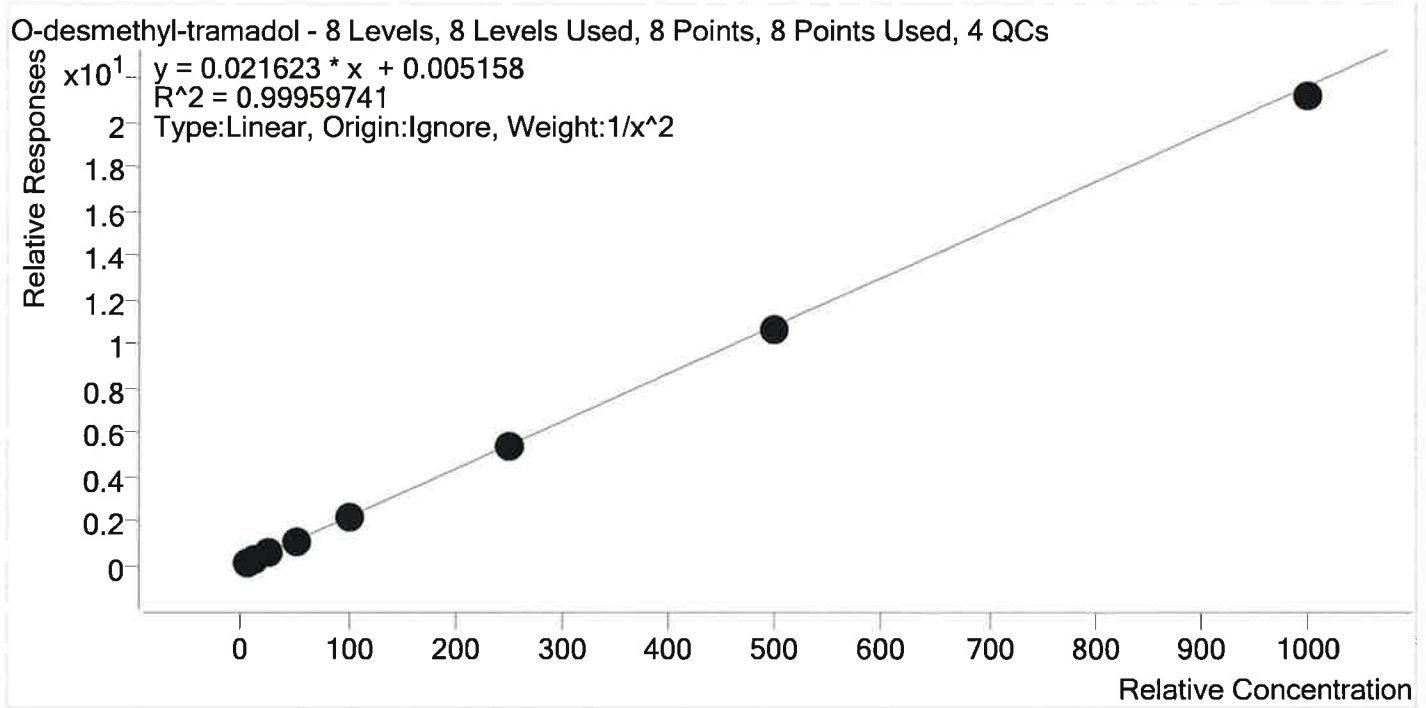
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.6
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.0
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.1
p1 Cal 4-50ng	4	✓	50.0	52.1	104.1
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	247.3	98.9
p1 Cal 7-500ng	7	✓	500.0	487.2	97.4
p1 Cal 8-1000ng	8	✓	1000.0	918.9	91.9

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 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	4.9	98.4
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	49.9	99.8
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	250.6	100.2
p1 Cal 7-500ng	7	✓	500.0	494.6	98.9
p1 Cal 8-1000ng	8	✓	1000.0	979.0	97.9

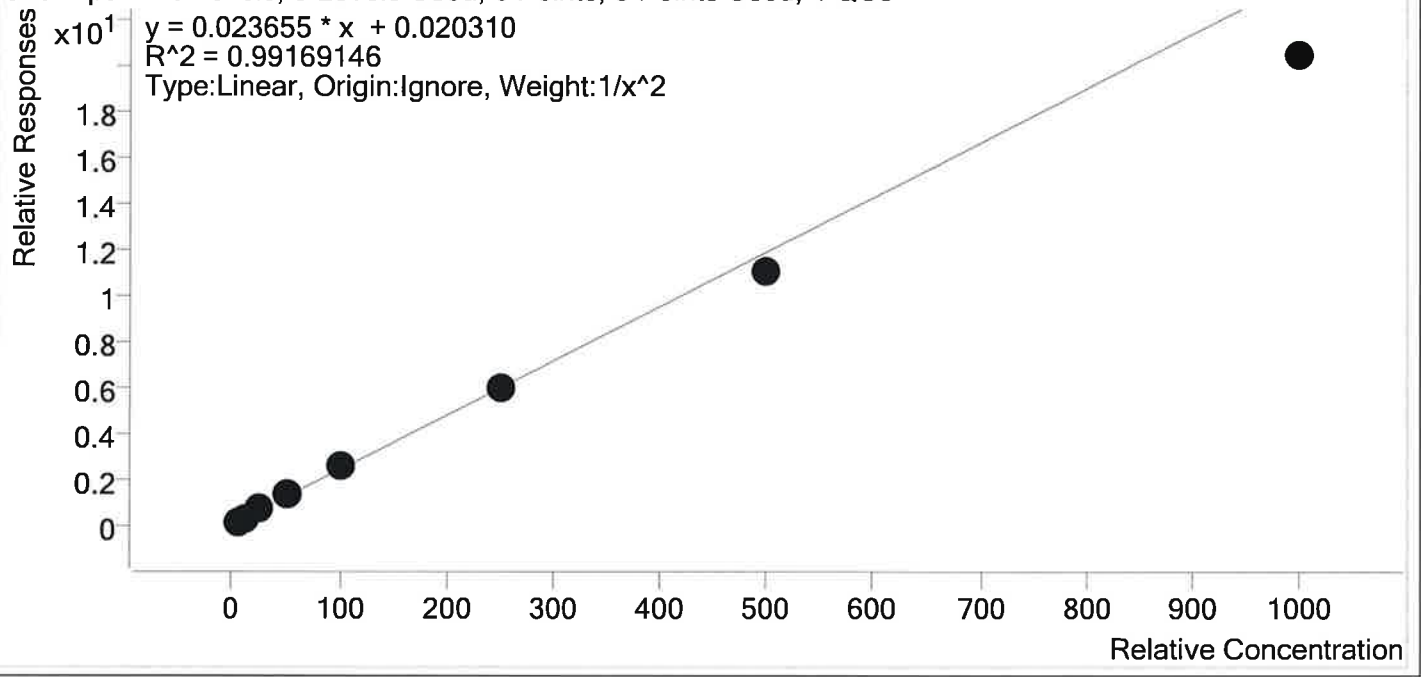
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Oxazepam **Internal Standard** Oxazepam-D5

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.8
p1 Cal 2- 10ng	2	✓	10.0	10.6	106.3
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.4
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	108.2	108.2
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	464.7	92.9
p1 Cal 8-1000ng	8	✓	1000.0	860.8	86.1

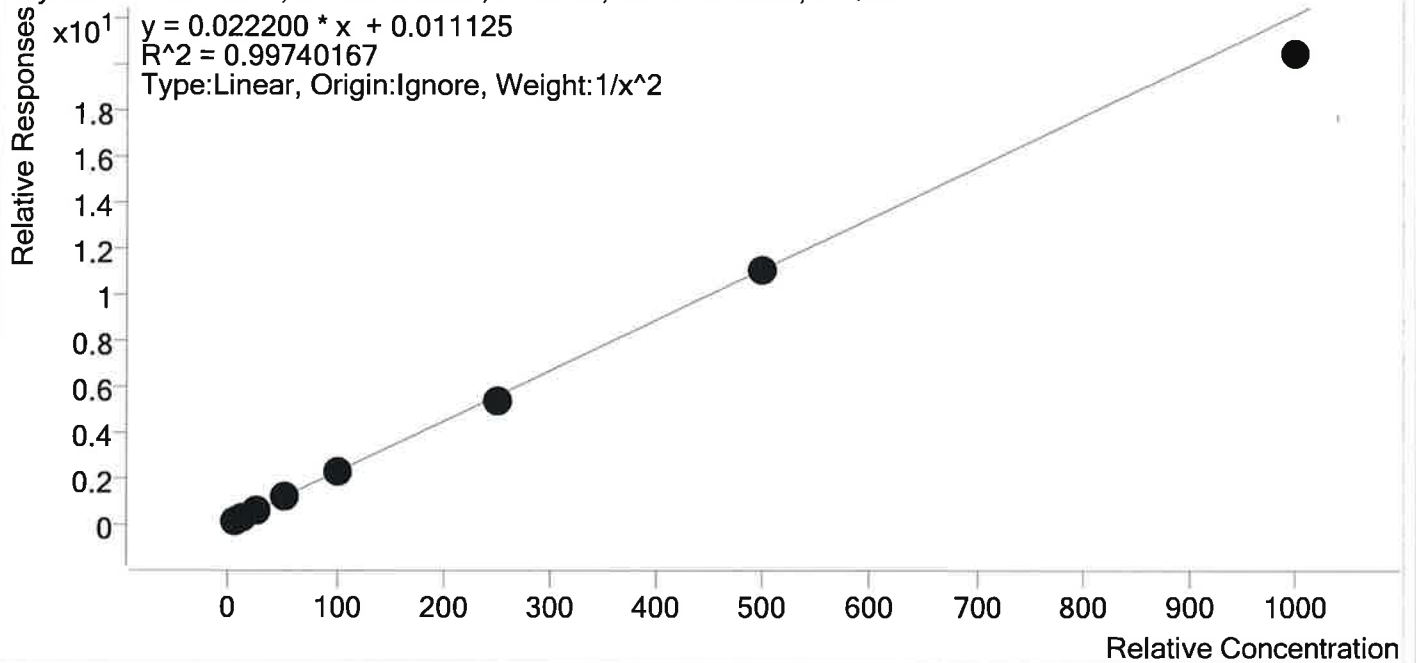
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 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	97.3
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	103.3	103.3
p1 Cal 6-250ng	6	✓	250.0	241.4	96.6
p1 Cal 7-500ng	7	✓	500.0	497.5	99.5
p1 Cal 8-1000ng	8	✓	1000.0	922.3	92.2

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

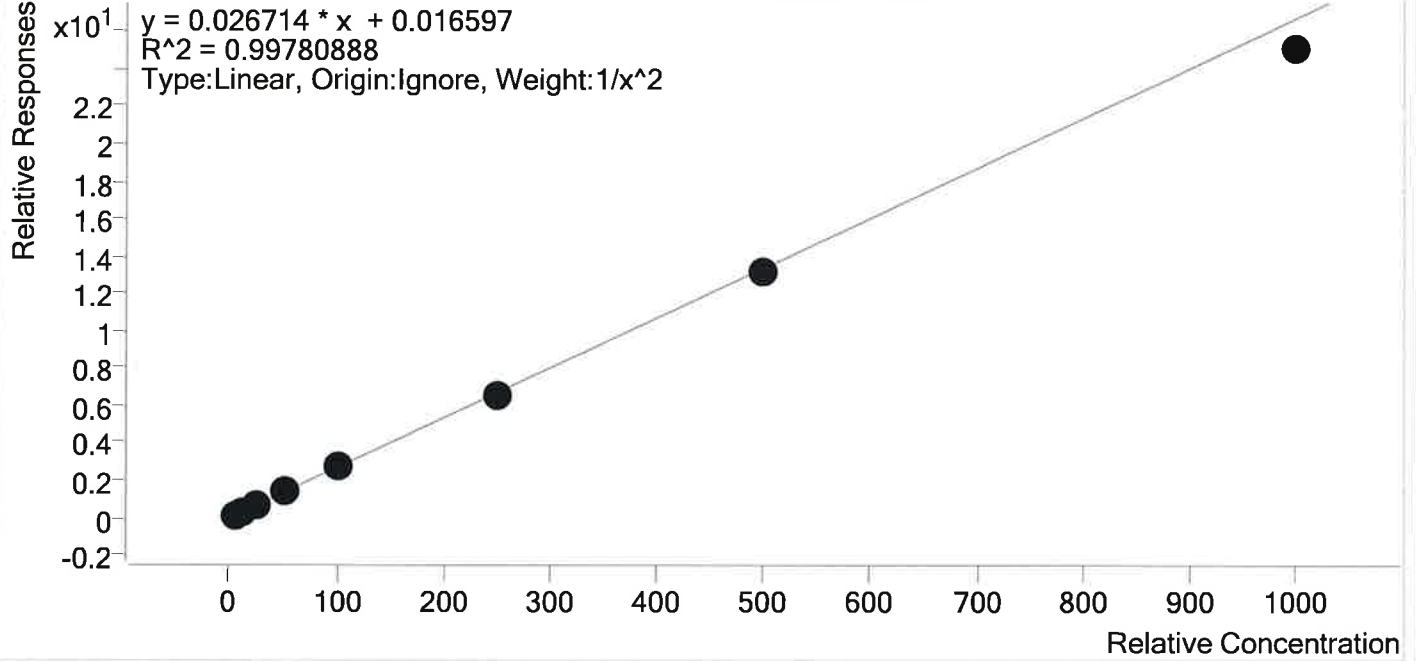
Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
TS.batch.bin

Last Cal. Update 4/12/2019 7:57 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	4.8	96.5
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p1 Cal 3 -25ng	3	✓	25.0	26.2	105.0
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng	6	✓	250.0	243.3	97.3
p1 Cal 7-500ng	7	✓	500.0	492.7	98.5
p1 Cal 8-1000ng	8	✓	1000.0	938.6	93.9

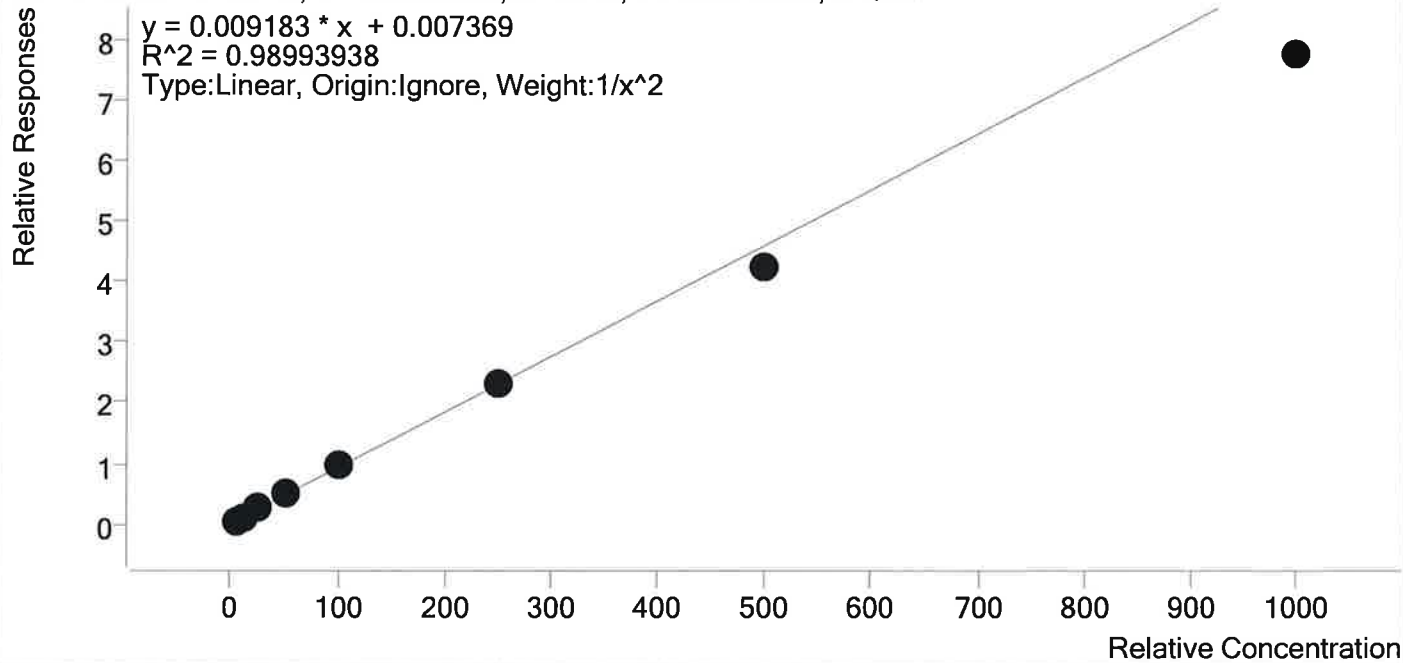
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 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	4.7	94.0
p1 Cal 2- 10ng	2	✓	10.0	10.8	107.5
p1 Cal 3 -25ng	3	✓	25.0	26.7	107.0
p1 Cal 4-50ng	4	✓	50.0	53.1	106.2
p1 Cal 5-100ng	5	✓	100.0	107.5	107.5
p1 Cal 6-250ng	6	✓	250.0	252.0	100.8
p1 Cal 7-500ng	7	✓	500.0	463.9	92.8
p1 Cal 8-1000ng	8	✓	1000.0	842.6	84.3

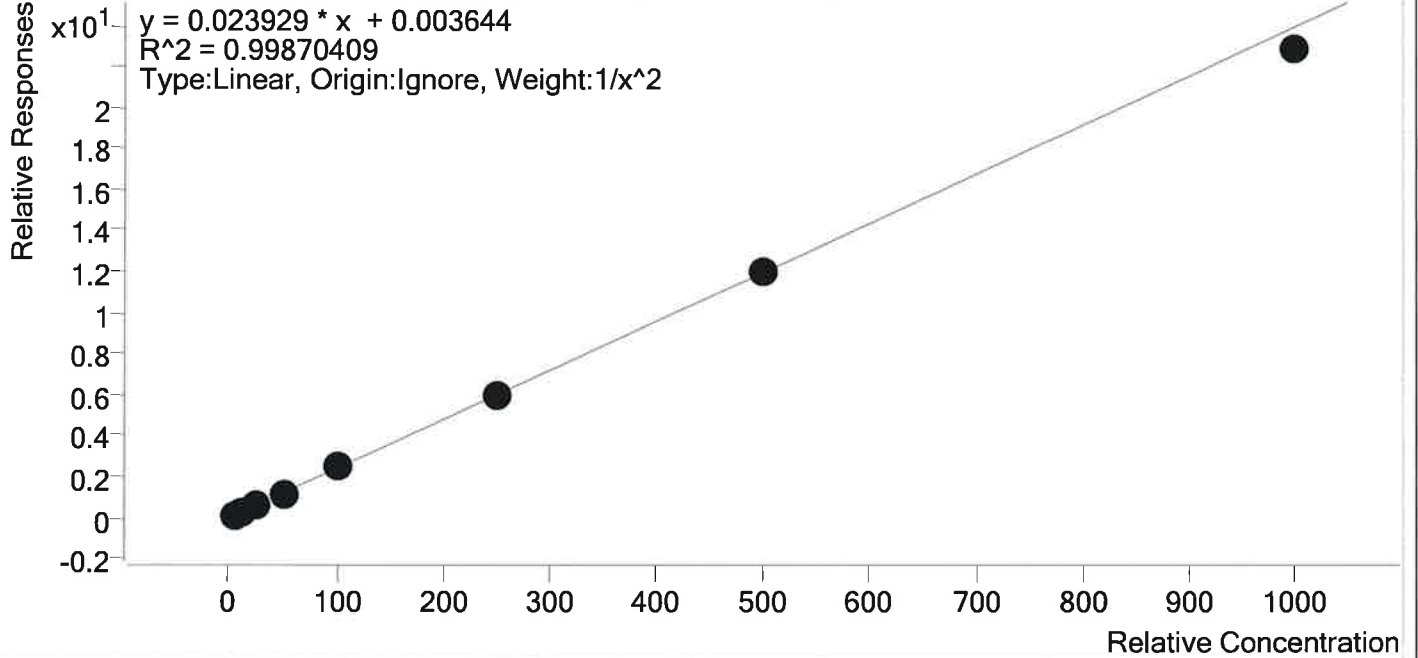
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Promethazine **Internal Standard** Promethazine-D3

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



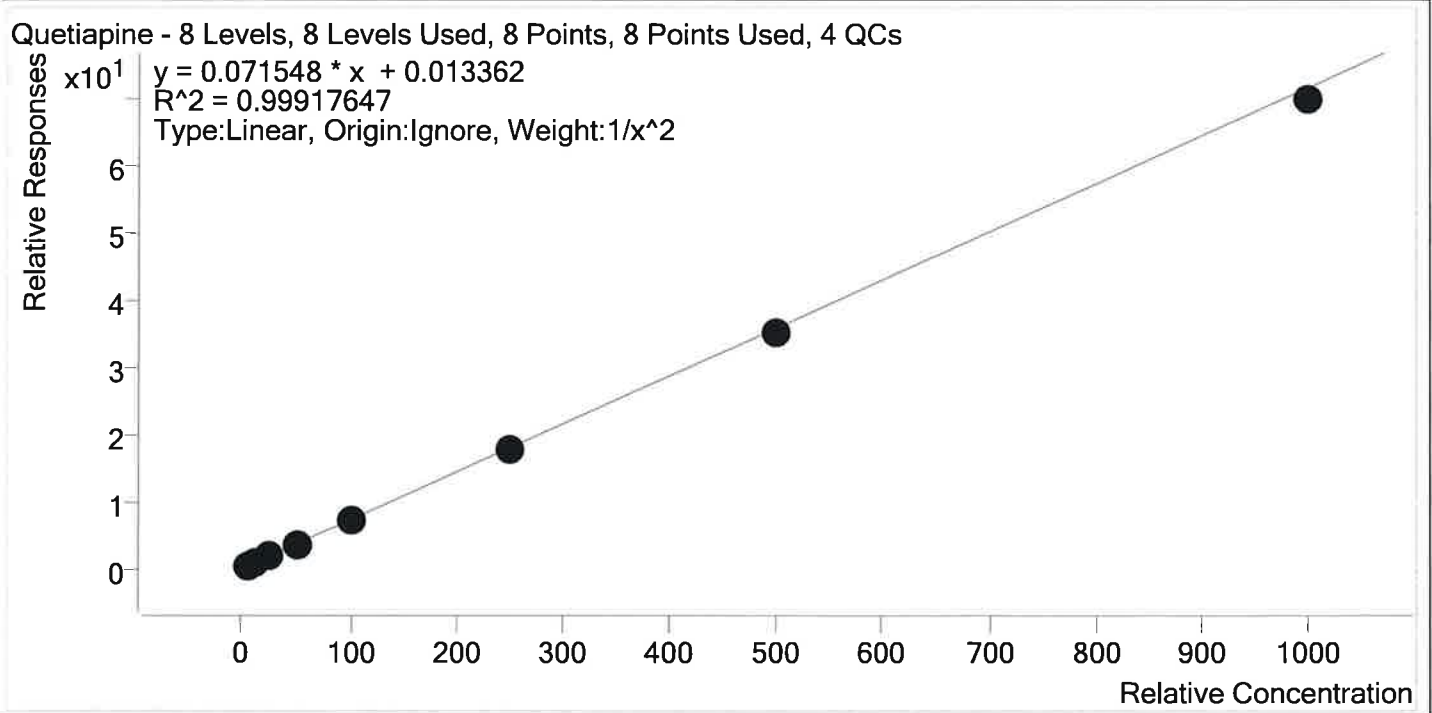
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.0
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.9
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	49.6	99.2
p1 Cal 5-100ng	5	✓	100.0	101.9	101.9
p1 Cal 6-250ng	6	✓	250.0	248.9	99.6
p1 Cal 7-500ng	7	✓	500.0	503.3	100.7
p1 Cal 8-1000ng	8	✓	1000.0	955.2	95.5

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Quetiapine **Internal Standard** Quetiapine-D8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	50.9	101.9
p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng	6	✓	250.0	243.5	97.4
p1 Cal 7-500ng	7	✓	500.0	488.6	97.7
p1 Cal 8-1000ng	8	✓	1000.0	975.5	97.6

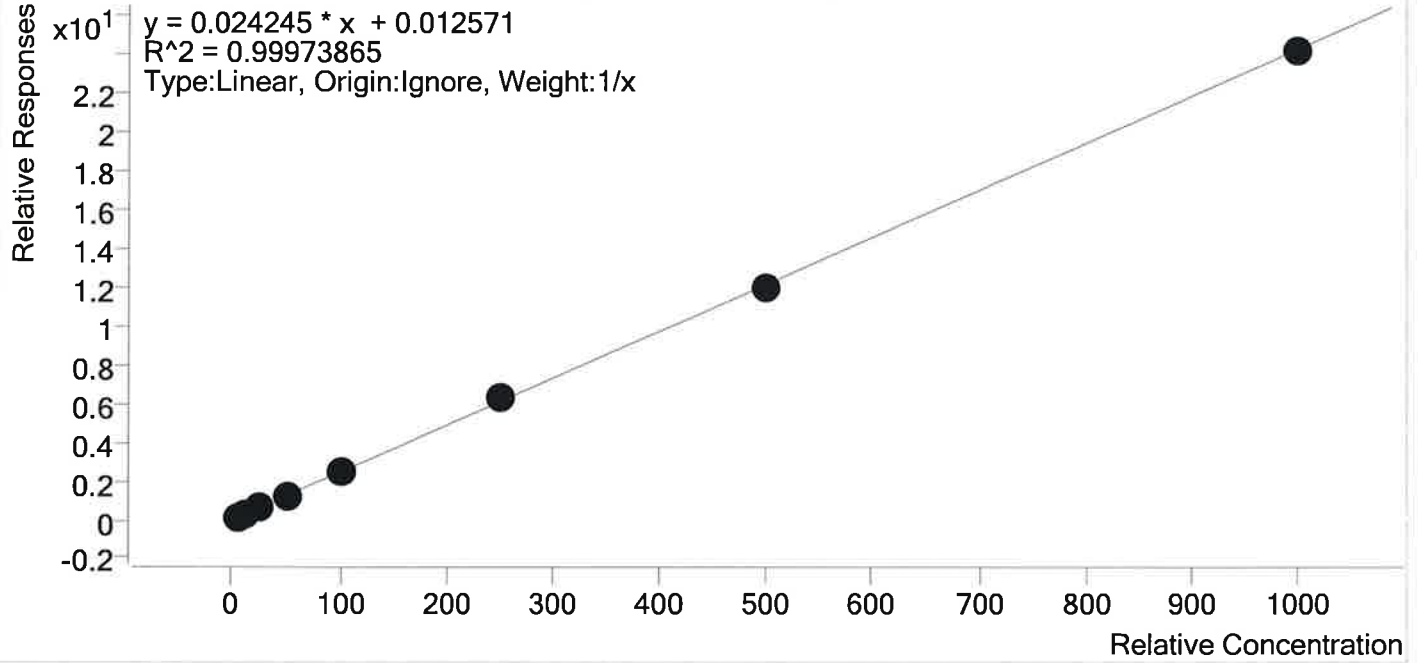
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\IP1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 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	4.5	90.7
p1 Cal 2- 10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	258.2	103.3
p1 Cal 7-500ng	7	✓	500.0	493.7	98.7
p1 Cal 8-1000ng	8	✓	1000.0	996.2	99.6

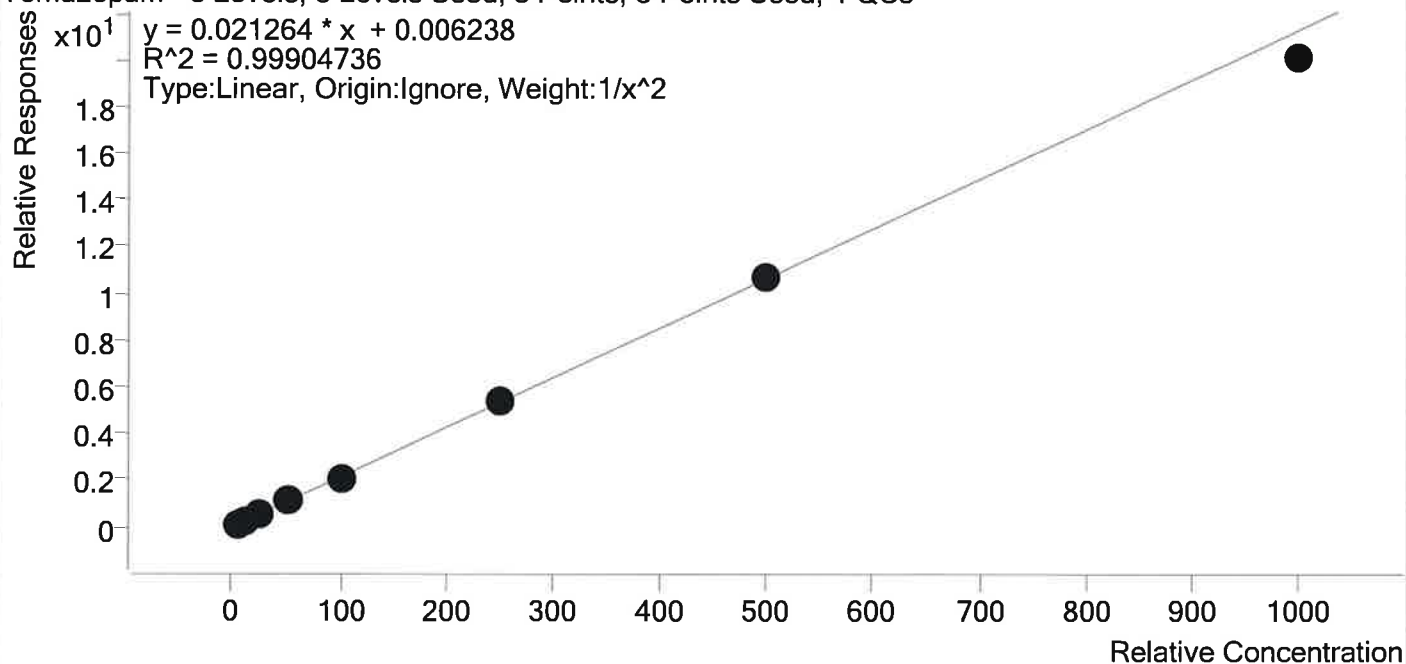
TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 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	4.9	98.3
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.2
p1 Cal 4-50ng	4	✓	50.0	51.1	102.2
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	251.3	100.5
p1 Cal 7-500ng	7	✓	500.0	504.2	100.8
p1 Cal 8-1000ng	8	✓	1000.0	944.3	94.4

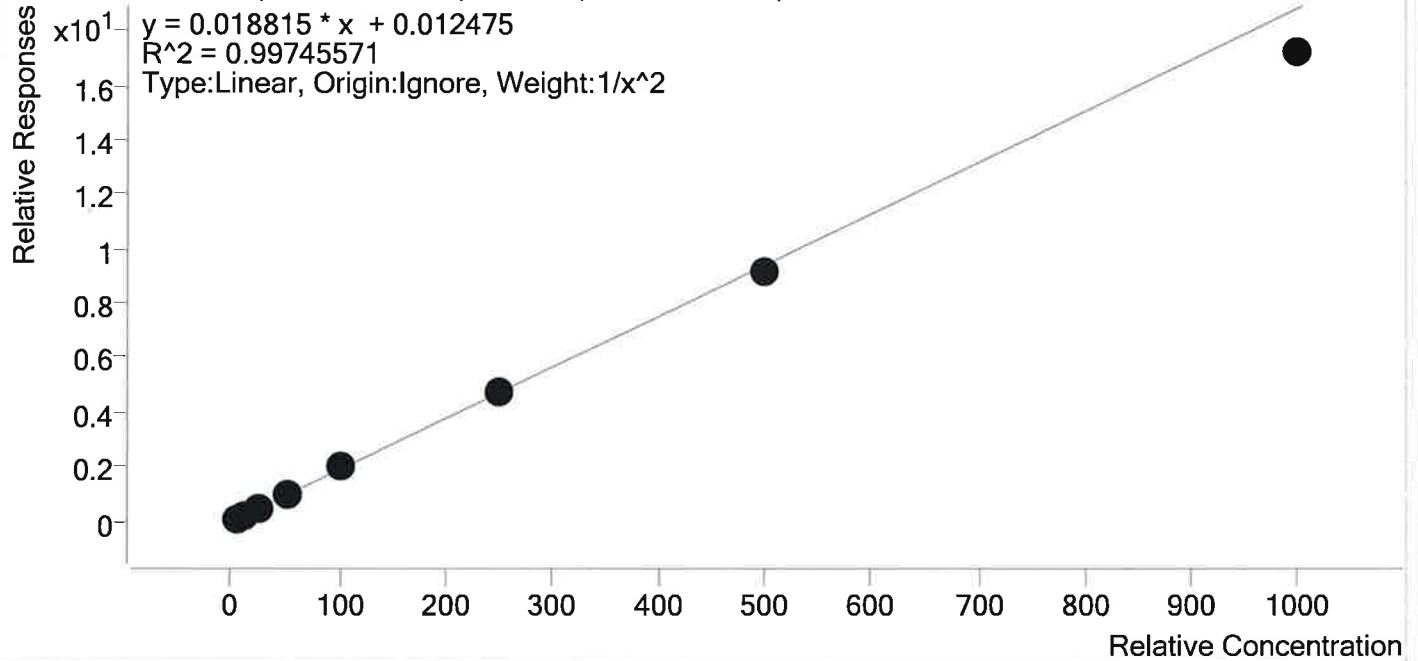
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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datator
Analyte Tramadol **Internal Standard** Tramadol-13C-D3

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



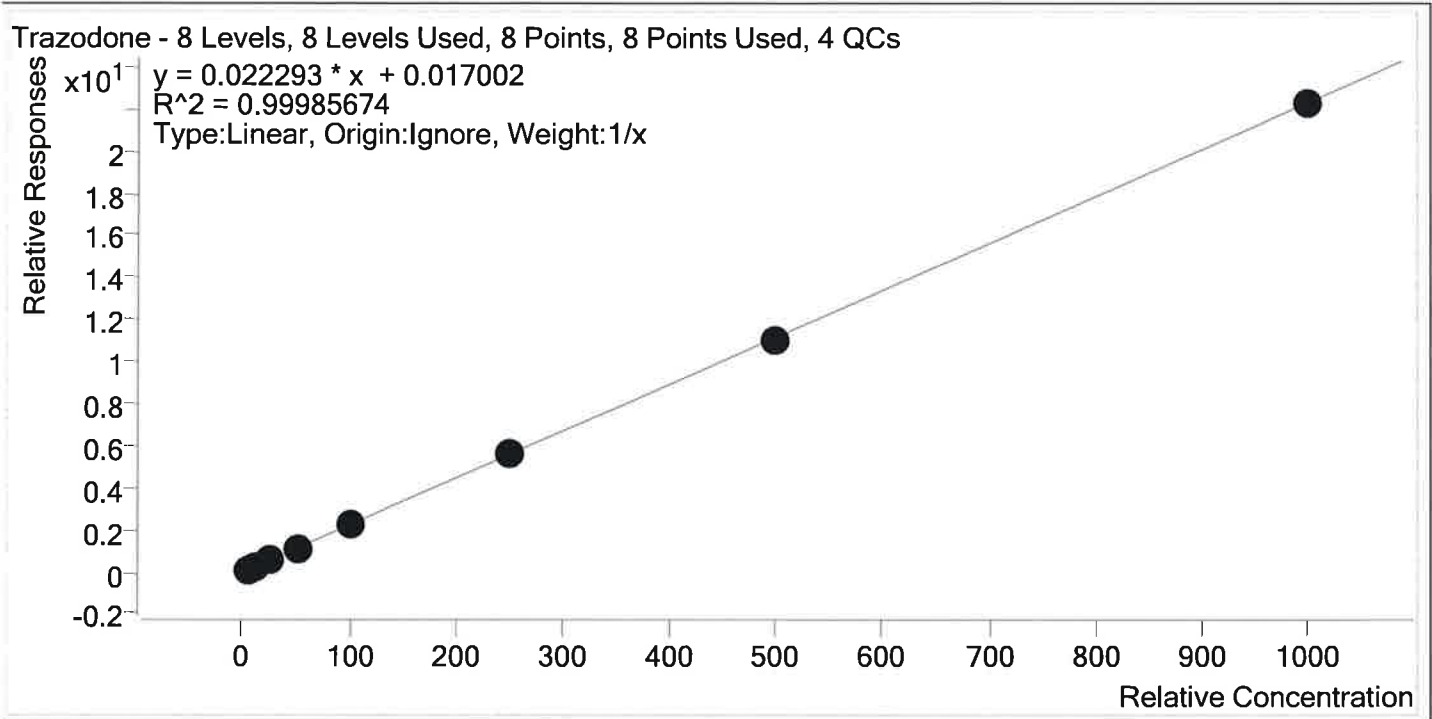
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.6
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.1
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.4
p1 Cal 4-50ng	4	✓	50.0	50.5	101.1
p1 Cal 5-100ng	5	✓	100.0	105.8	105.8
p1 Cal 6-250ng	6	✓	250.0	251.5	100.6
p1 Cal 7-500ng	7	✓	500.0	489.3	97.9
p1 Cal 8-1000ng	8	✓	1000.0	914.6	91.5

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Trazodone **Internal Standard** Trazodone-D6



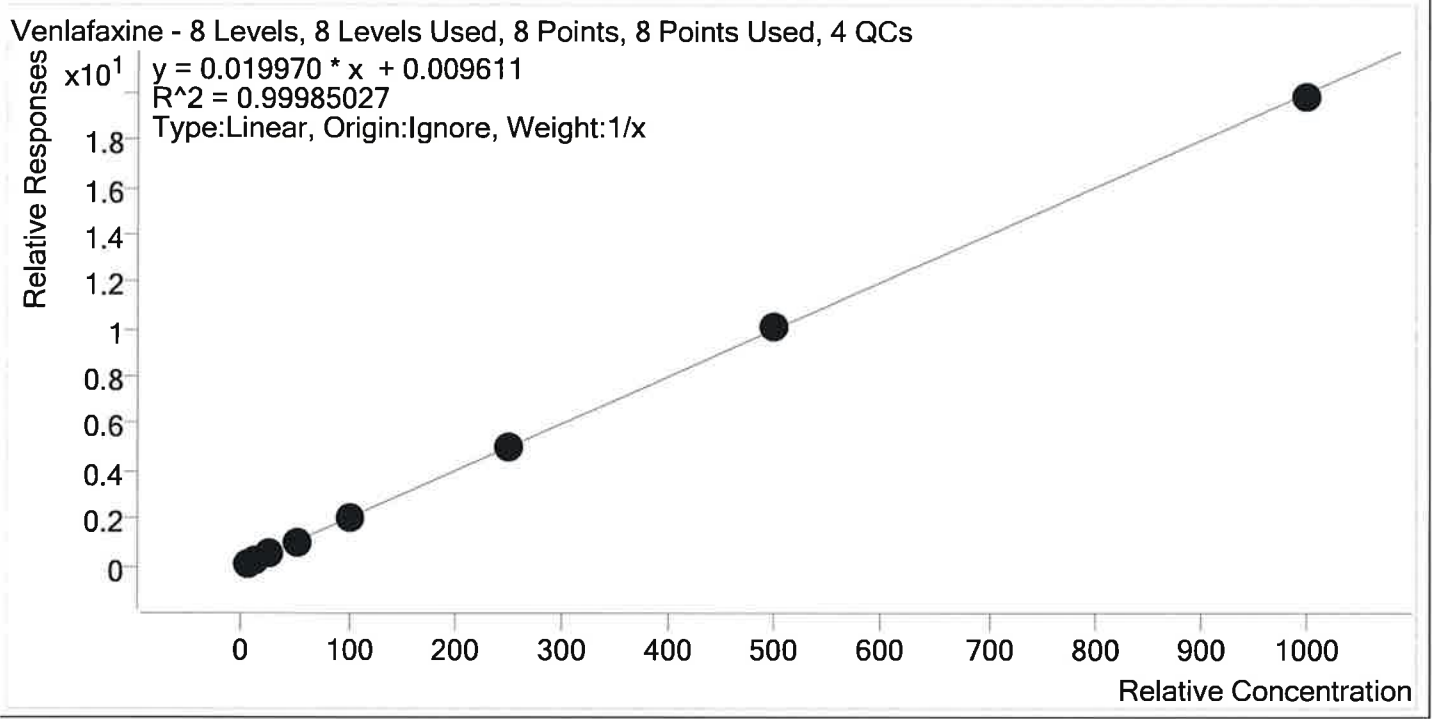
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.5	90.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.4
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	495.7	99.1
p1 Cal 8-1000ng	8	✓	1000.0	998.1	99.8

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TSI\QuantResults\P1 wklist 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Venlafaxine **Internal Standard** Venlafaxine-D6



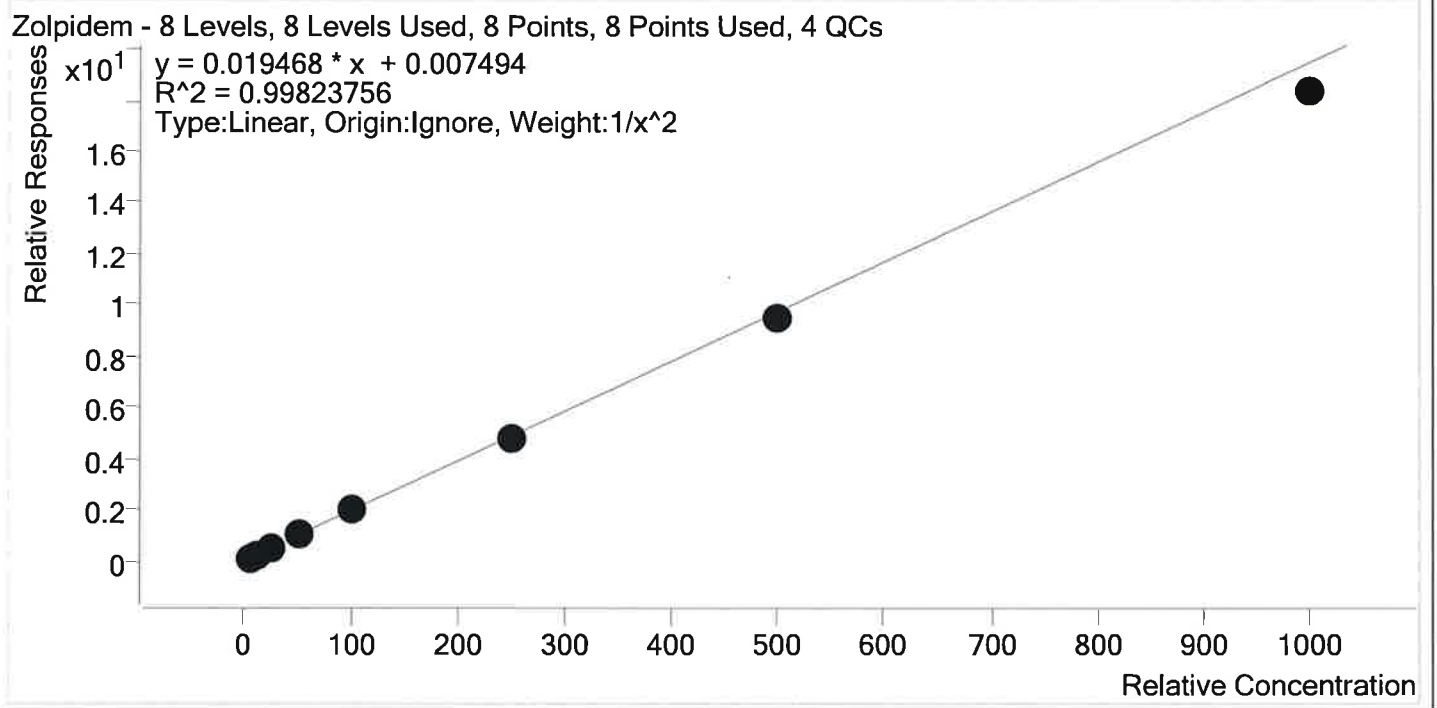
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.2
p1 Cal 4-50ng	4	✓	50.0	50.3	100.6
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	250.9	100.4
p1 Cal 7-500ng	7	✓	500.0	503.4	100.7
p1 Cal 8-1000ng	8	✓	1000.0	991.6	99.2

TS



AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wk1st 3238
 TS.batch.bin
Last Cal. Update 4/12/2019 7:57 AM
Analyst Name ISP\Datastor
Analyte Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✓	10.0	10.5	104.6
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.8
p1 Cal 4-50ng	4	✓	50.0	51.4	102.7
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	248.5	99.4
p1 Cal 7-500ng	7	✓	500.0	487.2	97.4
p1 Cal 8-1000ng	8	✓	1000.0	941.0	94.1

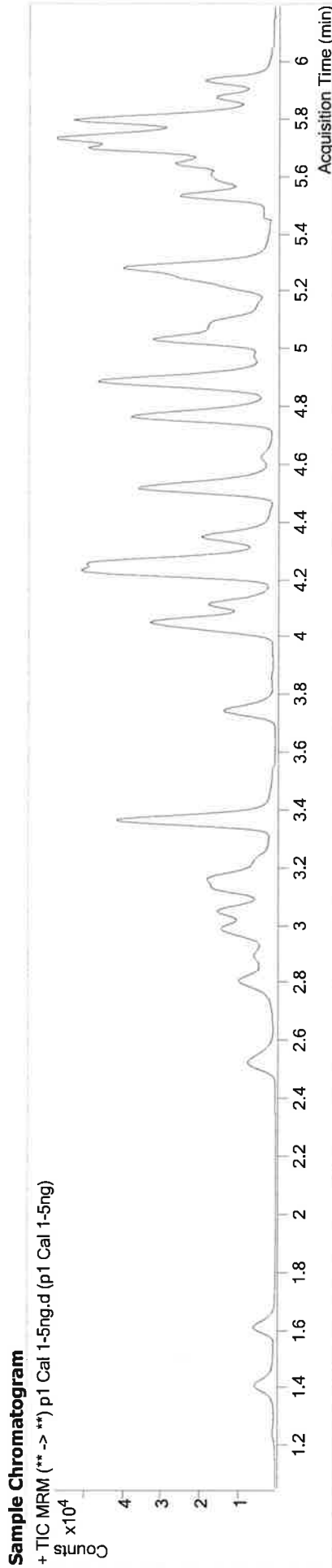
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklst 3238 TS.batch.bin
4/12/2019 7:57:56 AM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 1-5ng.d
Type Cal **Sample** p1 Cal 1-5ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-A1
Injection Volume 1
Acq. Date-Time 4/9/2019 5:25:08 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.138	517	120.58	70.1	267.16	31422	0.5007 ng/ml
7-aminoclonazepam	4.253	2589	16426.94	81.0	3323.42	22042	4.8498 ng/ml
a-hydroxylprazolam	5.682	2059	133.85	67.4	223.59	20435	4.7066 ng/ml
alpha-PVP	4.366	4426	710.59	52.1	463.82	39688	4.8201 ng/ml
Alprazolam	5.759	4323	277.53	106.2	323.64	25978	4.9465 ng/ml
Amphetamine	3.062	7115	194.54	58.9	560.93	19400	4.7515 ng/ml
Benzoyllecgonine	3.876	287	109.16	7.3	26.26	1224	5.8998 ng/ml
Buprenorphine	5.838	333	∞	14.6	20.47	23631	0.5176 ng/ml
Bupropion	4.789	13035	350.80	58.7	1143.97	89949	4.4877 ng/ml
Carisoprodol	5.714	5378	521.33	56.8	66.01	55184	4.8997 ng/ml
Citalopram	5.222	2407	1375.84	44.7	456.39	21045	4.5375 ng/ml
Clonazepam	5.595	3262	852.26	33.5	90.95	10367	4.7593 ng/ml
Cocaine	4.259	4682	2184.09	42.7	339.14	86837	4.8191 ng/ml
Codeine	2.583	769	1503.61	102.8	1371.70	7012	4.2318 ng/ml
Cyclobenzaprine	5.618	2301	2715.31	11.1	30.14	18819	4.9946 ng/ml
Dextromethorphan	5.265	1527	3011.01	79.2	687.93	14486	4.6335 ng/ml
Dextroproprian	4.122	1463	1299.88	205.7	529.02	34324	4.6338 ng/ml
Diazepam	5.945	2911	264.48	84.1	388.96	26530	4.8538 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	1806	12551.01	68.0	4475.99	19195	4.7508 ng/ml
Diphenhydramine	5.292	7332	1979.07	34.8	∞	76159	4.7874 ng/ml
Doxylamine	4.535	10191	5633.09	98.1	8307.24	90766	4.3562 ng/ml
EDDP	5.257	3183	1146.64	40.7	673.89	32715	4.9506 ng/ml
Fentanyl	5.093	225	46.85	72.9	248.53	21721	0.4922 ng/ml
Fluoxetine	5.704	3014	1675.39	10.8	751.03	22561	4.6673 ng/ml
Hydrocodone	3.025	2015	248.22	37.6	46.81	23785	4.7772 ng/ml
Hydromorphone	1.621	2048	214.72	75.9	215.27	14958	4.8490 ng/ml
Ketamine	4.049	4344	1280.87	36.8	105.68	38965	4.8685 ng/ml
Lamotrigine	4.290	520	532.12	78.4	443.59	38965	4.8458 ng/ml
Lorazepam	5.737	8132	93.39	52.6	23.04	10367	4.7730 ng/ml
Meprobamate	4.899	3028	377.49	27.7	177.91	28506	4.7169 ng/ml
Methadone	5.650	3821	2232.55	54.6	147.93	37787	4.6121 ng/ml
Methamphetamine	3.231	5352	147.92	40.9	336.84	40686	4.7382 ng/ml
Metoprolol	4.322	1123	1898.89	93.0	665.01	94810	4.8210 ng/ml
Mirtazapine	4.630	4174	11296.33	47.5	1142.76	39688	4.8117 ng/ml
Mitragynine	5.221	748	745.08	37.1	376.87	37787	4.5278 ng/ml
Morphine	1.260	515	3580.69	22.1	997.34	1179	4.8476 ng/ml
Norbuprenorphine	4.982	121	26.53	86.5	41.04	6597	0.4549 ng/ml
Nordiazepam	5.884	3094	1455.04	58.3	1388.44	19080	4.8314 ng/ml
Norfentanyl	4.084	756	614.43	38.1	83.86	65410	0.5097 ng/ml
Norhydrocodone	3.066	415	176.87	42.5	41.00	25664	5.9725 ng/ml
Noroxycodone	2.915	1647	146.72	47.2	107.09	11745	4.7790 ng/ml
O-desmethyl-tramadol	3.373	11147	5116.92	6.7	204.17	99979	4.9178 ng/ml
Oxazepam	5.740	8781	120.42	71.3	74.51	66295	4.7411 ng/ml
Oxycodone	2.840	3720	63.10	32.6	255.58	31225	4.8652 ng/ml
Oxymorphone	1.417	2262	292.88	46.4	82.30	15542	4.8270 ng/ml
Phentermine	3.781	1887	40.68	4.4	16.76	37338	4.6996 ng/ml
Promethazine	5.542	4211	1789.47	28.2	502.46	35177	4.8505 ng/ml
Quetiapine	5.552	3333	2205.31	58.8	2549.44	9142	4.9093 ng/ml
Setraline	5.773	1561	145.64	87.3	221.41	12738	4.5348 ng/ml
Temazepam	5.808	8442	101.22	34.2	386.25	76262	4.9127 ng/ml
Tramadol	4.242	9888	746.35	3.3	41.87	94810	4.8802 ng/ml
Trazodone	5.161	3106	2365.94	78.0	413.91	26363	4.5222 ng/ml
Venlafaxine	5.040	7097	658.31	37.8	132.85	68268	4.7244 ng/ml
Zolpidem	4.917	9448	16382.15	32.9	361.79	92875	4.8403 ng/ml

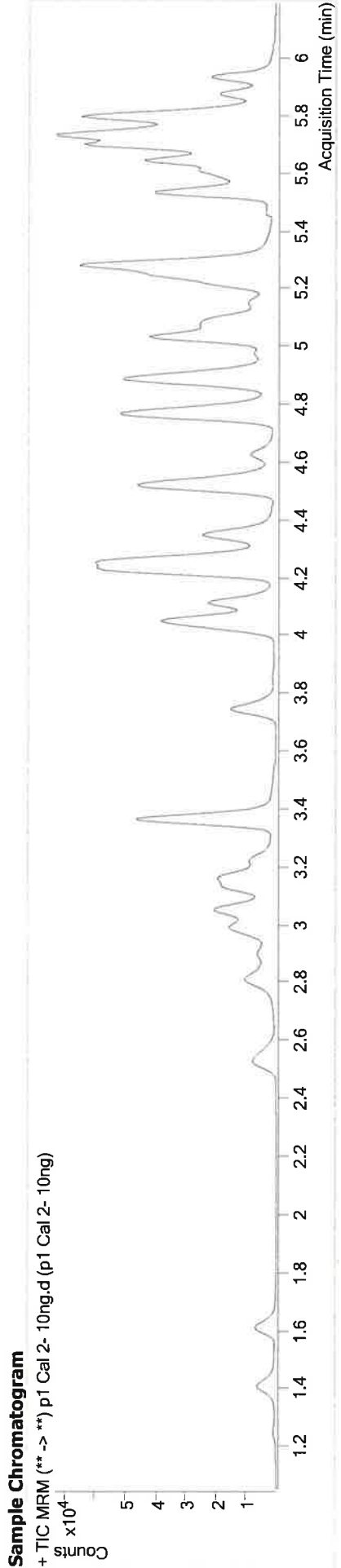
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1_wklist 3238 TS.batch.bin
4/12/2019 7:57:56 AM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 2- 10ng.d
Type Cal **Sample** p1 Cal 2- 10ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-B1
Injection Volume 1
Acq. Date-Time 4/9/2019 5:35:34 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	989	461.70	76.8	387.98	32235	0.9497 ng/ml
7-aminoclonazepam	4.253	5236	10194.75	83.6	234.53	21930	10.3729 ng/ml
a-hydroxyvalprazolam	5.682	4264	497.60	61.2	195.02	19518	10.8554 ng/ml
alpha-PVP	4.360	10248	612.34	52.5	433.09	44316	10.2915 ng/ml
Alprazolam	5.759	8673	857.00	106.0	505.84	26427	9.9715 ng/ml
Amphetamine	3.062	16203	1118.48	58.3	2230.46	22028	10.5141 ng/ml
Benzoyllecgonine	3.870	441	411.35	9.2	10.82	1312	9.6434 ng/ml
Buprenorphine	5.838	884	∞	15.5	93.76	37163	0.9309 ng/ml
Bupropion	4.789	32648	9676.00	59.3	1478.74	109943	10.1081 ng/ml
Carisoprodol	5.714	10809	284.75	56.0	305.14	54872	10.2617 ng/ml
Citalopram	5.222	7329	3746.89	43.0	4311.42	31266	10.0319 ng/ml
Clonazepam	5.595	6469	916.11	34.9	6648.03	10168	10.4954 ng/ml
Cocaine	4.259	10037	27265.64	43.7	11650.94	93995	10.0889 ng/ml
Codaine	2.583	1595	6411.70	103.1	226.10	7091	9.9735 ng/ml
Cyclobenzaprine	5.618	7255	10367.81	10.7	106.99	29687	10.0586 ng/ml
Dextromethorphan	5.265	4747	419.93	69.8	429.47	21810	10.1333 ng/ml
Dextroproprian	4.122	3560	847.50	203.0	1211.98	40304	10.1622 ng/ml
Diazepam	5.945	6246	400.59	87.0	461.64	27397	10.4448 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.55	3736	8035.01	69.9	7468.13	19377	10.5738 ng/ml
Diphenhydramine	5.292	21895	1038.89	34.0	5216.54	111136	10.1441 ng/ml
Doxylamine	4.535	24314	16989.71	97.6	124330.65	104059	10.1381 ng/ml
EDDP	5.257	9555	324.62	42.0	5321.05	47818	10.2660 ng/ml
Fentanyl	5.093	706	52.39	72.2	343.13	33885	1.0283 ng/ml
Fluoxetine	5.704	9756	194.42	9.7	1330.80	35387	10.1358 ng/ml
Hydrocodone	3.025	4288	249.97	40.4	94.35	24634	10.5098 ng/ml
Hydromorphone	1.621	4322	239.57	75.5	485.19	15276	10.4347 ng/ml
Ketamine	4.049	9260	∞	35.5	165.11	41586	10.3545 ng/ml
Lamotrigine	4.290	1110	∞	79.1	848.78	41586	10.4492 ng/ml
Lorazepam	5.737	15984	255.73	56.1	117.47	10168	10.7449 ng/ml
Meprobamate	4.899	6223	3754.01	28.1	1279.95	27342	10.9534 ng/ml
Methadone	5.650	12333	24799.80	52.9	247.97	59346	9.9348 ng/ml
Methamphetamine	3.231	11932	508.89	41.5	∞	43854	10.8442 ng/ml
Metoprolol	4.322	2493	22256.18	97.7	3801.64	102049	10.4031 ng/ml
Mirtazapine	4.630	12257	3413.74	46.9	3056.15	44316	12.6459 ng/ml
Mitragynine	5.228	2549	5512.76	37.4	∞	59346	10.6065 ng/ml
Morphine	1.253	1076	891.56	23.2	707.44	1224	10.4175 ng/ml
Norbuprenorphine	4.982	287	111.80	89.4	39.68	9487	0.9994 ng/ml
Nordiazepam	5.884	6658	1540.34	58.4	1360.47	19719	10.4843 ng/ml
Norfentanyl	4.084	1716	∞	37.0	122.67	72402	0.9961 ng/ml
Norhydrocodone	3.073	1069	∞	44.0	49.97	27349	9.8538 ng/ml
Noroxycodone	2.921	3508	168.10	47.5	800.17	12021	10.6048 ng/ml
O-desmethyl-tramadol	3.373	23076	2793.82	6.6	482.44	101071	10.3207 ng/ml
Oxazepam	5.740	17860	157.49	68.8	∞	65742	10.6260 ng/ml
Oxycodone	2.840	7575	209.47	32.4	498.87	31521	10.3230 ng/ml
Oxymorphone	1.410	4586	316.57	47.5	1497.83	15489	10.4619 ng/ml
Phentermine	3.781	4406	219.46	4.0	26.60	41528	10.7510 ng/ml
Promethazine	5.542	13717	15432.32	28.5	769.94	53375	10.5876 ng/ml
Quetiapine	5.552	9437	2097.00	60.4	∞	12642	10.2472 ng/ml
Sertraline	5.780	5155	302.17	85.8	2207.29	19200	10.5564 ng/ml
Temazepam	5.808	17343	437.78	31.9	44.26	77529	10.2264 ng/ml
Tramadol	4.242	21075	1448.39	3.4	266.78	102049	10.3131 ng/ml
Trazodone	5.161	9154	284.59	77.4	∞	37327	10.2376 ng/ml
Venlafaxine	5.040	16794	1945.19	37.8	228.11	79778	10.0598 ng/ml
Zolpidem	4.917	20441	26013.62	31.4	140.92	96788	10.4634 ng/ml

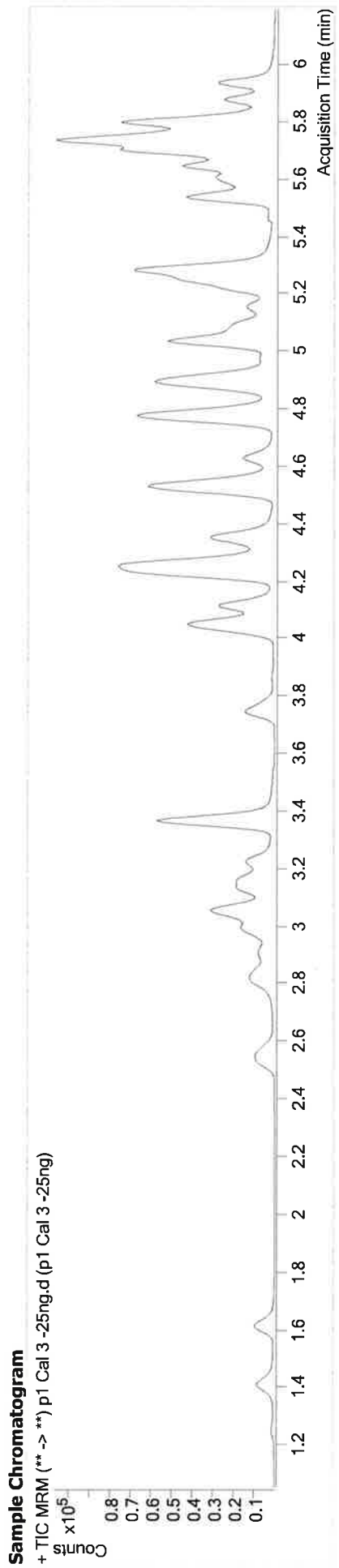
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1_wklist 3238 TS.batch.bin
4/12/2019 7:57:56 AM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 3 -25ng.d
Type Cal **Sample** p1 Cal 3 -25ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-C1
Injection Volume 1
Acq. Date-Time 4/9/2019 5:46:01 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	2501	1002.15	69.2	586.44	30952	2.5294 ng/ml
7-aminoclonazepam	4.253	12225	26942.33	80.7	18531.47	21014	25.9900 ng/ml
a-hydroxyvalprazolam	5.682	9875	251.92	65.1	598.76	19246	26.2541 ng/ml
alpha-PVP	4.366	23424	4912.59	51.4	620.77	42387	24.9781 ng/ml
Alprazolam	5.759	20698	1706.39	103.5	1648.95	25165	25.3257 ng/ml
Amphetamine	3.062	36114	4145.83	57.5	1740.55	20046	27.1693 ng/ml
Benzoyllecgonine	3.876	868	339.53	7.2	118.87	1175	24.4736 ng/ml
Buprenorphine	5.838	1698	1224.47	17.9	96.53	27903	2.5100 ng/ml
Bupropion	4.789	71833	19126.65	58.8	1099.12	101143	25.3857 ng/ml
Carisoprodol	5.714	25300	2974.90	55.5	859.41	52598	25.5628 ng/ml
Citalopram	5.222	14155	1995.53	42.1	3661.23	25084	25.1312 ng/ml
Clonazepam	5.595	15404	6892.41	34.4	17389.64	9891	26.9256 ng/ml
Cocaine	4.266	23138	92610.84	43.6	9637.35	90458	24.9406 ng/ml
Codeine	2.590	3719	8832.12	102.8	9354.86	6826	25.9172 ng/ml
Cyclobenzaprine	5.618	12984	5430.06	10.6	812.54	21909	24.5031 ng/ml
Dextromethorphan	5.265	9064	5662.09	78.6	2597.49	17287	25.1552 ng/ml
Dextroproprian	4.122	8139	5207.51	201.9	106982.83	37799	25.5200 ng/ml
Diazepam	5.945	14301	2020.58	84.6	311.85	26115	25.5542 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	8737	7660.90	68.3	70991.18	18924	26.4279 ng/ml
Diphenhydramine	5.292	42802	785.35	33.1	∞	89473	25.1060 ng/ml
Doxylamine	4.535	55228	1158.92	97.8	24073.22	99180	25.5345 ng/ml
EDDP	5.257	19286	506.38	42.4	16813.63	40509	24.5914 ng/ml
Fentanyl	5.093	1304	245.14	74.0	4259.51	25865	2.5455 ng/ml
Fluoxetine	5.704	18143	10828.26	9.6	475.14	26991	25.3903 ng/ml
Hydrocodone	3.025	10192	324.19	39.8	352.80	24105	26.4680 ng/ml
Hydromorphone	1.621	10054	2419.65	74.6	545.76	14577	25.9999 ng/ml
Ketamine	4.049	21199	∞	36.9	772.74	40037	25.4951 ng/ml
Lamotrigine	4.290	2492	1818.73	81.6	1790.17	40037	25.3561 ng/ml
Lorazepam	5.737	36055	1798.39	56.3	370.07	9891	26.4660 ng/ml
Meprobamate	4.899	14128	5767.13	28.7	919.21	27312	25.8406 ng/ml
Methadone	5.650	23459	4395.42	52.1	381.50	45210	25.4550 ng/ml
Methamphetamine	3.231	23070	739.78	39.3	972.75	37515	25.7387 ng/ml
Metoprolol	4.322	5948	28915.05	92.8	3704.30	98708	26.2857 ng/ml
Mirtazapine	4.630	23782	∞	47.6	2218.05	42387	25.6496 ng/ml
Morphine	5.228	4429	6188.53	37.3	839.55	45210	25.0519 ng/ml
Norbuprenorphine	1.253	2469	∞	23.1	693.53	1175	25.8227 ng/ml
Nordiazepam	4.988	501	118.93	93.6	332.51	7661	2.6055 ng/ml
Norfentanyl	5.884	15130	∞	58.4	1559.76	18651	25.7382 ng/ml
Norhydrocodone	4.084	3969	2083.71	37.9	384.52	68715	2.3591 ng/ml
Noroxycodone	3.073	2751	∞	42.3	123.67	26247	20.9656 ng/ml
O-desmethyl-tramadol	2.921	8155	249.84	47.6	157.16	11650	26.2857 ng/ml
Oxazepam	3.373	53683	15994.20	6.7	1418.04	98374	24.9991 ng/ml
Oxycodone	5.740	40433	275.28	68.9	117.06	62265	26.5933 ng/ml
Oxymorphone	2.840	18417	158.91	31.3	290.20	31792	25.5935 ng/ml
Phentermine	1.410	10628	382.34	46.9	282.00	14809	26.2424 ng/ml
Promethazine	3.781	9694	∞	4.1	42.64	38323	26.7442 ng/ml
Quetiapine	5.542	24488	8485.29	28.3	635.01	40556	25.0811 ng/ml
Sertraline	5.552	18080	11464.12	60.3	5134.72	9877	25.3978 ng/ml
Temazepam	5.773	8939	∞	90.3	753.56	14383	25.1158 ng/ml
Tramadol	5.808	39656	860.78	30.4	67.96	72161	25.5510 ng/ml
Trazodone	4.242	48780	19616.20	3.6	396.91	98708	25.6018 ng/ml
Venlafaxine	5.161	16644	199.18	76.8	∞	28578	25.3623 ng/ml
Zolpidem	5.040	38741	1697.20	38.0	442.04	75969	25.0545 ng/ml
	4.917	46169	∞	32.0	764.69	90880	25.7102 ng/ml

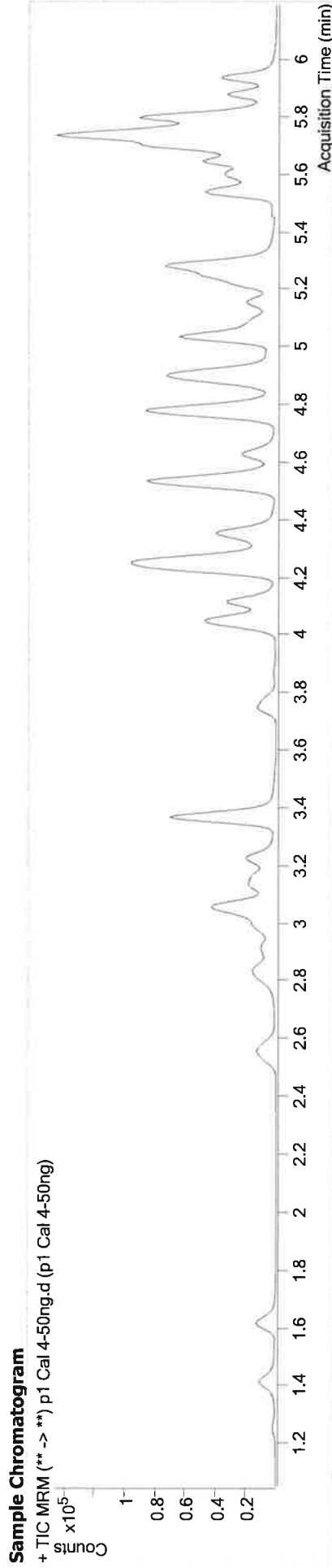
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1_wklist 3238 TS.batch.bin
4/12/2019 7:57:56 AM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 4-50ng.d
Type Cal **Sample** p1 Cal 4-50ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-D1
Injection Volume 1
Acq. Date-Time 4/9/2019 5:56:27 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	4482	3080.43	71.0	3569.21	27711	5.0815 ng/ml
7-aminoclonazepam	4.253	21550	24834.70	79.9	12385.35	18892	51.4365 ng/ml
α-hydroxyalprazolam	5.682	17529	644.82	64.8	709.32	17289	52.4199 ng/ml
alpha-PVP	4.366	40340	9574.21	51.6	1240.48	37154	49.3415 ng/ml
Alprazolam	5.759	36724	3846.34	103.7	2744.45	22905	49.5795 ng/ml
Amphetamine	3.062	59403	3263.00	57.5	6500.97	17087	53.3389 ng/ml
Benzoylcegonine	3.876	1457	90.43	7.1	65.01	1077	47.1085 ng/ml
Buprenorphine	5.838	2466	690.81	17.2	181.11	21080	4.9019 ng/ml
Bupropion	4.789	116829	33471.80	58.5	6962.10	83141	51.0783 ng/ml
Carisoprodol	5.714	44205	1016.49	56.2	1262.54	46547	50.8105 ng/ml
Citalopram	5.222	22178	6177.84	42.5	2372.02	19727	50.7611 ng/ml
Clonazepam	5.595	26489	7039.59	33.8	∞	8750	53.1410 ng/ml
Cocaine	4.266	40850	198115.97	43.7	409.03	80652	49.9302 ng/ml
Codeine	2.590	6594	22944.36	102.3	21538.73	6179	51.9552 ng/ml
Cyclobenzaprine	5.618	20014	420.52	10.5	715.46	16460	50.3524 ng/ml
Dextromethorphan	5.265	13523	258.19	78.4	1410.22	13064	50.1738 ng/ml
Dextroproprian	4.122	13723	1187.42	207.1	1458.52	33033	49.7160 ng/ml
Diazepam	5.945	25406	452.45	87.2	1480.78	23435	50.9134 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	15461	353.54	68.5	∞	16829	53.3787 ng/ml
Diphenhydramine	5.292	65368	27994.73	34.0	11200.62	69246	49.8648 ng/ml
Doxylamine	4.535	95427	869.44	98.1	46527.48	86931	51.3024 ng/ml
EDDP	5.257	28526	1476.93	41.6	666.08	30029	49.1632 ng/ml
Fentanyl	5.093	1886	969.94	74.6	2346.25	19681	4.8757 ng/ml
Fluoxetine	5.704	26775	8777.07	9.9	333.47	20181	50.5730 ng/ml
Hydrocodone	3.025	17651	511.00	39.2	76.93	20909	53.5007 ng/ml
Hydromorphone	1.621	17115	655.45	77.1	360.07	13058	49.7614 ng/ml
Ketamine	4.049	37779	1619.77	37.3	2449.99	35662	51.6415 ng/ml
Lamotrigine	4.290	4496	2573.26	78.5	4418.15	35662	52.1260 ng/ml
Lorazepam	5.737	60003	∞	56.5	366.41	8750	50.8225 ng/ml
Meprobamate	4.899	24499	7786.48	28.5	1880.19	23735	52.3002 ng/ml
Methadone	5.650	34797	3994.16	51.5	2719.06	34511	49.8710 ng/ml
Methamphetamine	3.231	36653	236.15	41.5	734.01	30290	51.5929 ng/ml
Metoprolol	4.322	10446	12255.32	93.0	5183.24	89101	51.5497 ng/ml
Mirtazapine	4.630	36745	24342.22	47.3	2350.31	37154	45.2091 ng/ml
Mitragynine	5.228	6365	12350.84	38.4	4037.63	34511	47.7546 ng/ml
Morphine	1.260	4395	3218.98	22.6	2120.88	1071	51.0351 ng/ml
Norbuprenorphine	4.988	688	230.16	96.6	67.17	5797	5.0351 ng/ml
Nordiazepam	5.884	26597	17048.84	57.9	1377.88	16768	50.7000 ng/ml
Norfentanyl	4.084	7178	1373.01	37.5	460.50	60983	4.7580 ng/ml
Norhydrocodone	3.073	5825	353.72	41.5	114.09	23624	44.9420 ng/ml
Noroxycodone	2.921	14162	∞	48.4	136.27	10331	52.0597 ng/ml
O-desmethyl-tramadol	3.379	95711	69809.72	6.6	1094.63	88310	49.8858 ng/ml
Oxazepam	5.740	68513	311.23	69.8	170.04	54286	52.4954 ng/ml
Oxycodone	2.840	32789	739.94	31.4	441.11	27721	52.7779 ng/ml
Oxymorphone	1.417	17882	749.55	47.4	349.22	13097	50.4871 ng/ml
Phentermine	3.781	15931	4404.78	4.0	115.75	32193	53.0860 ng/ml
Promethazine	5.542	35056	7599.62	28.7	9434.32	29454	49.5878 ng/ml
Quetiapine	5.552	28470	1016.28	57.9	2777.64	7785	50.9275 ng/ml
Sertraline	5.780	13098	595.62	91.2	1391.89	10695	49.9938 ng/ml
Temazepam	5.808	71297	1513.70	29.8	731.96	65257	51.0869 ng/ml
Tramadol	4.242	85856	4342.93	3.6	1422.61	89101	50.5493 ng/ml
Trazodone	5.161	25920	68603.29	77.0	∞	22237	51.5224 ng/ml
Venlafaxine	5.040	67545	4620.40	38.0	1242.48	66606	50.2993 ng/ml
Zolpidem	4.917	83808	174862.11	31.8	981.27	83174	51.3726 ng/ml

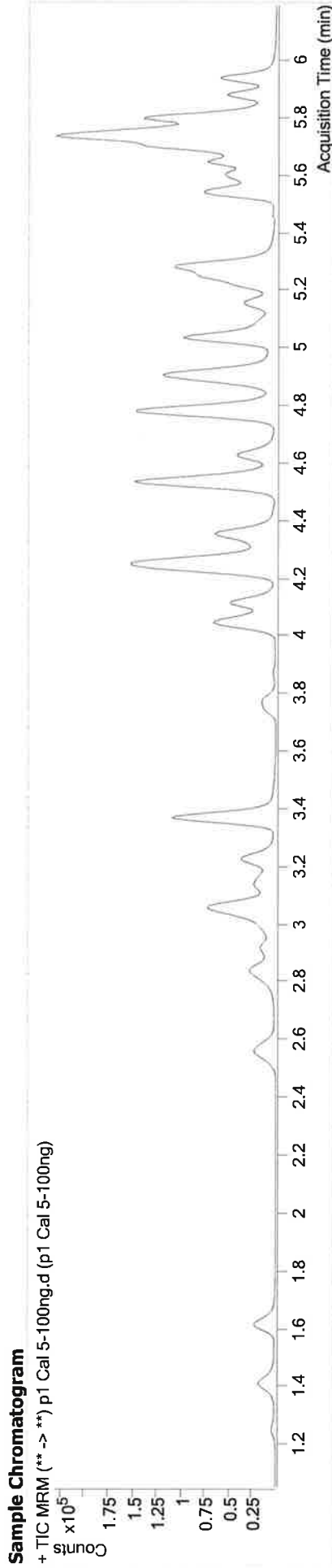
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AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update 4/12/2019 7:57:56 AM D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238 TS.batch.bin

Instrument Type: FALCO-LCMS (Property ID 069901)
Acq. Method Cal
Sample Position MDQ P1 Combined 011619.m
Injection Volume P1-EI
Acq. Date-Time 1
Sample Info. 4/9/2019 6:06:54 PM
 Data File: p1 Cal 5-100ng.d
 Sample: p1 Cal 5-100ng
 Operator: Tamara Salazar
 Comment:



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	9336	926.00	70.1	2303.00	28478	10.3180 ng/ml
7-aminoclonazepam	4.253	43936	17042.11	81.5	52820.27	19170	103.8533 ng/ml
a-hydroxyalprazolam	5.682	34531	655.89	65.4	1836.00	17304	103.7192 ng/ml
alpha-PVP	4.366	81709	26270.43	51.4	2248.99	36603	101.7386 ng/ml
Alprazolam	5.759	73778	3349.00	107.6	2159.13	22417	102.0059 ng/ml
Amphetamine	3.062	113303	10024.11	56.8	10195.18	16732	104.8284 ng/ml
Benzoyllecgonine	3.876	3084	253.37	7.5	399.01	1140	97.0131 ng/ml
Buprenorphine	5.838	5244	940.39	16.5	73.84	21840	10.1484 ng/ml
Bupropion	4.789	227923	210836.60	58.2	966.54	80312	104.0456 ng/ml
Carisoprodol	5.714	85900	5039.55	57.3	3603.97	45033	102.4091 ng/ml
Citalopram	5.222	41828	1867.74	42.6	726.64	18297	103.9401 ng/ml
Clonazepam	5.595	51615	1725.86	35.0	857.20	8635	105.7506 ng/ml
Cocaine	4.259	81481	38588.73	43.9	18086.77	79247	101.9288 ng/ml
Codeine	2.590	13071	2743.57	103.0	17410.21	6098	105.6098 ng/ml
Cyclobenzaprine	5.618	38565	30272.56	10.7	6034.74	15501	103.1125 ng/ml
Dextromethorphan	5.265	24908	555.16	79.3	1332.48	11678	103.9460 ng/ml
Dextroproprian	4.122	27088	2897.93	206.0	57233.60	31445	103.6482 ng/ml
Diazepam	5.945	51889	3637.37	86.2	7166.78	23862	102.4592 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	31777	24135.18	68.2	68407.25	17317	107.4105 ng/ml
Diphenhydramine	5.292	121554	467.70	34.2	10272.14	62882	102.4574 ng/ml
Doxylamine	4.535	189904	37735.00	97.2	102854.36	85298	104.5105 ng/ml
EDDP	5.257	63831	892.81	41.9	341.43	32229	102.6000 ng/ml
Fentanyl	5.093	3563	119.48	74.8	6880.32	18018	10.1047 ng/ml
Fluoxetine	5.704	52463	9583.14	9.7	2530.04	19452	103.2960 ng/ml
Hydrocodone	3.025	35204	∞	39.7	102.60	21549	104.1481 ng/ml
Hydromorphone	1.621	36034	5281.19	73.6	724.68	13252	103.6552 ng/ml
Ketamine	4.049	75779	23398.67	37.7	892.37	35761	103.9307 ng/ml
Lamotrigine	4.290	9080	2195.57	79.7	∞	35761	105.7501 ng/ml
Lorazepam	5.737	103361	14636.23	56.7	350.66	8635	89.5830 ng/ml
Meprobamate	4.899	47529	1609.91	27.3	2348.74	24246	99.9922 ng/ml
Methadone	5.650	66618	2558.49	52.1	2277.88	31829	103.9870 ng/ml
Methamphetamine	3.231	73947	2390.81	41.0	1713.21	30775	103.4085 ng/ml
Metoprolol	4.322	20436	99359.46	94.0	∞	85608	105.4137 ng/ml
Mirtazapine	4.630	68248	42753.34	47.4	2568.78	36603	85.2290 ng/ml
Mitragynine	5.228	13076	15962.25	38.8	16279.58	31829	107.1945 ng/ml
Morphine	1.253	9035	1194.26	23.1	149.55	1094	103.3885 ng/ml
Norbuprenorphine	4.988	1264	329.38	100.0	282.67	5663	9.8051 ng/ml
Nordiazepam	5.884	53049	2396.76	58.3	1994.44	16169	105.2912 ng/ml
Norfentanyl	4.084	14341	11201.68	37.5	1579.11	59901	9.6297 ng/ml
Norhydrocodone	3.073	14850	815.95	41.0	427.97	23915	108.2662 ng/ml
Noroxycodone	2.921	26772	918.96	50.9	338.08	10136	100.8707 ng/ml
O-desmethyl-tramadol	3.379	196920	77045.35	6.6	12421.08	89426	101.6019 ng/ml
Oxazepam	5.740	126379	∞	69.9	672.82	49010	108.1519 ng/ml
Oxycodone	2.840	64850	352.18	32.9	795.21	28152	103.2623 ng/ml
Oxymorphone	1.410	36582	1064.91	48.5	666.08	13195	103.1554 ng/ml
Phentermine	3.781	31010	5723.66	3.9	298.59	31182	107.4931 ng/ml
Promethazine	5.542	72702	27496.23	29.0	423.43	29779	101.8735 ng/ml
Quetiapine	5.552	54518	5000.61	58.7	797.31	7370	103.2009 ng/ml
Sertraline	5.780	25201	14016.71	93.0	1279.65	10174	101.6450 ng/ml
Temazepam	5.808	141330	2332.78	30.4	312.92	66725	99.3154 ng/ml
Tramadol	4.242	171558	69067.18	3.5	1163.24	85608	105.8446 ng/ml
Trazodone	5.161	48408	10489.87	78.4	68392.24	20887	103.1987 ng/ml
Venlafaxine	5.040	134468	21615.24	37.7	715.04	64516	103.8856 ng/ml
Zolpidem	4.917	170739	41849.29	32.2	31389.96	85628	102.0374 ng/ml

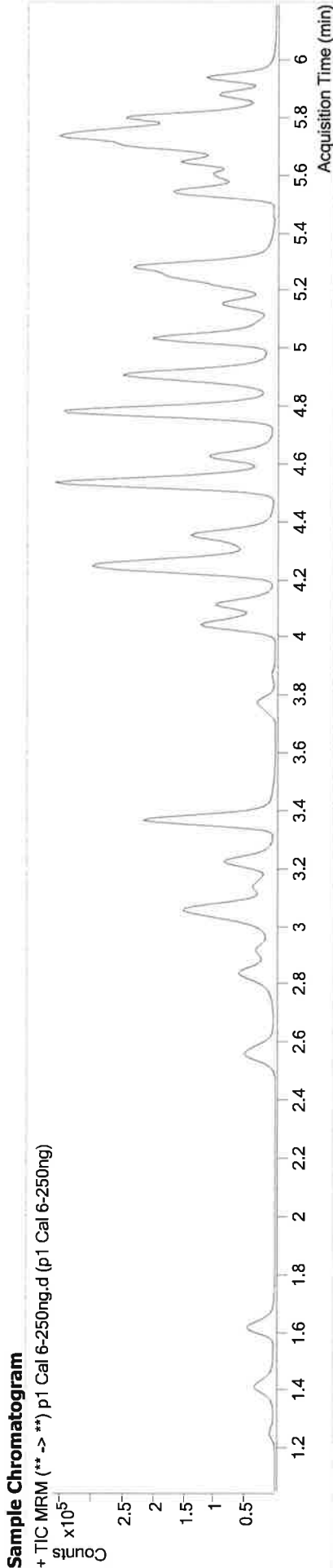
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AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1_wklist 3238 TS.batch.bin
4/12/2019 7:57:56 AM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 6-250ng.d
Type Cal **Sample** p1 Cal 6-250ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-F1
Injection Volume 1
Acq. Date-Time 4/9/2019 6:17:21 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	22877	37994.94	72.0	1396.18	29037	24.8205 ng/ml
7-aminoclonazepam	4.253	94751	78926.67	81.0	81993.72	17543	245.4136 ng/ml
a-hydroxyalprazolam	5.682	73792	985.23	65.2	753.40	15228	252.6593 ng/ml
alpha-PVP	4.360	203651	402820.02	51.6	11729.37	36722	253.1591 ng/ml
Alprazolam	5.759	166227	2126.35	103.7	4168.13	20865	247.2412 ng/ml
Amphetamine	3.062	256099	9001.02	56.1	23285.60	16646	239.4060 ng/ml
Benzoyllecgonine	3.870	7379	453.01	8.4	695.63	1118	240.6377 ng/ml
Buprenorphine	5.838	12474	15700.45	17.4	3255.26	22015	24.0616 ng/ml
Bupropion	4.789	583879	137397.12	58.8	36320.77	84453	254.7167 ng/ml
Carisoprodol	5.714	184052	1338.40	56.3	4455.24	39399	251.3074 ng/ml
Citalopram	5.222	105562	42119.35	41.7	546.88	18705	257.6090 ng/ml
Clonazepam	5.595	104333	21016.66	35.9	2773.16	7323	253.2439 ng/ml
Cocaine	4.259	197477	230376.91	43.6	∞	77845	252.2974 ng/ml
Codeine	2.590	30239	2526.64	100.8	780.46	5824	257.5843 ng/ml
Cyclobenzaprine	5.618	95118	129212.43	10.7	1044.28	15850	248.8186 ng/ml
Dextromethorphan	5.265	64011	8610.21	78.7	114389.96	12267	255.0575 ng/ml
Dextropropion	4.115	66878	28054.53	204.7	54955.47	32012	252.1042 ng/ml
Diazepam	5.945	118406	28015.28	86.0	6824.53	22297	250.6893 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.562	76174	48022.46	68.4	∞	17321	258.5308 ng/ml
Diphenhydramine	5.292	318345	31989.51	34.1	2134.89	67261	251.3441 ng/ml
Doxylamine	4.535	489339	∞	98.2	127624.07	89976	258.0950 ng/ml
EDDP	5.257	165015	24996.90	42.3	969.58	34317	249.2392 ng/ml
Fentanyl	5.093	9587	1225.77	75.7	8472.65	19890	24.6874 ng/ml
Fluoxetine	5.704	118988	2794.06	10.0	11134.77	18193	251.1723 ng/ml
Hydrocodone	3.025	81625	340.71	39.3	355.15	21616	241.5929 ng/ml
Hydromorphone	1.621	79836	1150.60	75.6	542.70	12422	245.5304 ng/ml
Ketamine	4.049	185864	3391.84	37.8	13439.07	36494	250.6772 ng/ml
Lamotrigine	4.290	21157	8077.88	78.3	12452.59	36494	242.4035 ng/ml
Lorazepam	5.730	158011	∞	56.7	1963.99	7323	162.4294 ng/ml
Meprobamate	4.899	94936	57892.22	28.1	2268.39	22057	220.4344 ng/ml
Methadone	5.650	175128	23848.27	51.0	49184.75	33593	259.6532 ng/ml
Methamphetamine	3.231	175777	∞	41.2	2659.41	30194	251.9311 ng/ml
Metoprolol	4.322	50272	∞	93.1	25956.29	87314	254.8535 ng/ml
Mirtazapine	4.630	183857	18162.58	47.6	99234.59	36722	228.8507 ng/ml
Mitragynine	5.221	33028	110862.39	36.8	1291.49	33593	257.4770 ng/ml
Morphine	1.253	20502	1429.27	23.1	523.05	1034	249.0008 ng/ml
Norbuprenorphine	4.988	3444	6719.03	89.9	1682.82	5850	26.4875 ng/ml
Nordiazepam	5.884	113107	20685.28	57.7	13577.38	14322	254.0007 ng/ml
Norfentanyl	4.084	37021	19982.37	37.0	6859.07	60259	24.6357 ng/ml
Norhydrocodone	3.073	47198	1324.12	41.0	770.96	25202	320.0035 ng/ml
Noroxycodone	2.921	62290	∞	47.6	1023.98	9654	247.2823 ng/ml
O-desmethyl-tramadol	3.373	481544	90057.19	6.5	2317.86	88780	250.6124 ng/ml
Oxazepam	5.740	207415	3635.24	70.5	770.42	34821	250.9597 ng/ml
Oxycodone	2.840	156147	∞	31.5	1889.15	29078	241.3838 ng/ml
Oxymorphone	1.417	81410	2546.25	47.1	1316.06	12492	243.3322 ng/ml
Phentermine	3.781	75202	6929.84	3.9	349.75	32389	252.0343 ng/ml
Promethazine	5.535	180642	68265.36	29.1	2281.41	30311	248.9013 ng/ml
Quetiapine	5.552	139077	48956.68	60.3	246771.37	7976	243.5371 ng/ml
Sertraline	5.780	57974	428.59	90.2	725.13	9243	258.1880 ng/ml
Temazepam	5.808	313630	12846.97	29.8	579.69	58626	251.2881 ng/ml
Tramadol	4.242	414213	85024.01	3.6	1837.61	87314	251.4682 ng/ml
Trazodone	5.161	130235	41141.93	79.6	∞	23172	251.3523 ng/ml
Venlafaxine	5.040	334433	32976.68	38.4	2136.24	66617	250.9023 ng/ml
Zolpidem	4.917	421979	49737.85	31.5	46556.35	87102	248.4657 ng/ml

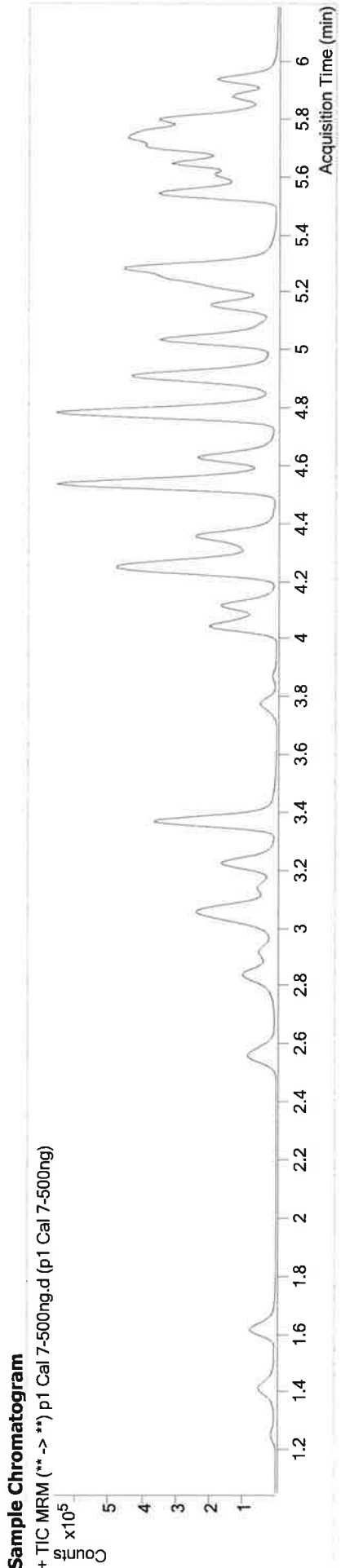
TS



AM #28 Multi-Drug Quant. Results

Batch results Calibration Last Update D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1 wklist 3238 TS.batch.bin
4/12/2019 7:57:56 AM

Instrument FALCO-LCMS (Property ID 069901) **Data File** p1 Cal 7-500ng.d
Type Cal **Sample** p1 Cal 7-500ng
Acq. Method MDQ P1 Combined 011619.m **Operator** Tamara Salazar
Sample Position P1-G1
Injection Volume 1
Acq. Date-Time 4/9/2019 6:27:47 PM
Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	44427	4170.53	72.3	2903.15	28105	49.8178 ng/ml
7-aminoclonazepam	4.253	152889	456.95	80.4	48797.52	15379	452.1155 ng/ml
a-hydroxyalprazolam	5.682	112339	4900.68	65.6	1160.79	12160	482.2025 ng/ml
alpha-PVP	4.366	377757	165084.35	51.3	8355.26	34843	495.1757 ng/ml
Alprazolam	5.759	281073	9137.45	103.8	7106.86	17489	498.9760 ng/ml
Amphetamine	3.062	426650	17164.22	56.4	16073.99	15857	419.4123 ng/ml
Benzoyllecgonine	3.876	16238	542.79	7.9	682.31	1223	486.6724 ng/ml
Buprenorphine	5.838	28655	31555.21	16.8	5028.49	23205	52.5374 ng/ml
Bupropion	4.789	1149817	128674.59	59.1	3631.09	84001	505.1609 ng/ml
Carisoprodol	5.714	274240	11043.21	55.8	11099.59	30097	490.5086 ng/ml
Citalopram	5.222	223288	2092.09	42.9	∞	19972	511.0155 ng/ml
Clonazepam	5.595	156894	3595.65	34.8	∞	6067	460.3729 ng/ml
Cocaine	4.266	358259	144528.27	43.3	∞	70413	506.5885 ng/ml
Codeine	2.590	52842	1046.15	100.9	15448.49	5159	509.3356 ng/ml
Cyclobenzaprine	5.618	221317	41669.59	10.4	∞	18164	505.2612 ng/ml
Dextromethorphan	5.265	136885	7578.93	79.2	14482.85	13404	499.7027 ng/ml
Dextropropion	4.122	123226	26384.56	205.6	194709.72	29606	502.7737 ng/ml
Diazepam	5.945	201300	1270.35	87.7	9879.95	19537	486.7170 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	140067	155994.50	68.5	77910.09	17249	478.0515 ng/ml
Diphenhydramine	5.292	684642	74879.76	34.0	20860.06	72715	500.3289 ng/ml
Doxylamine	4.535	931347	∞	98.0	195847.20	87864	503.9753 ng/ml
EDDP	5.257	324730	81081.66	42.2	11343.11	34063	494.2226 ng/ml
Fentanyl	5.093	23068	867.43	75.8	15635.45	23497	50.3238 ng/ml
Fluoxetine	5.704	263312	79349.81	9.7	532.42	20510	493.4784 ng/ml
Hydrocodone	3.025	145868	461.24	41.9	171.75	20124	464.3529 ng/ml
Hydromorphone	1.621	145840	1442.06	75.4	4297.05	11613	480.1525 ng/ml
Ketamine	4.049	348426	48012.95	37.7	1218.36	35599	482.3307 ng/ml
Lamotrigine	4.290	38345	31841.82	80.1	92262.45	35599	451.0246 ng/ml
Lorazepam	5.730	176643	3396.11	56.7	665.32	6067	219.5923 ng/ml
Meprobamate	4.899	147516	55616.67	28.0	8757.24	20346	371.8374 ng/ml
Methadone	5.650	381879	157338.06	51.2	15894.48	37806	503.5099 ng/ml
Methamphetamine	3.231	358838	17248.29	41.2	13488.22	31886	487.9201 ng/ml
Metoprolol	4.322	90456	1013289.20	94.1	22273.59	80602	497.1619 ng/ml
Mirtazapine	4.620	409814	∞	47.2	104275.03	34843	537.6040 ng/ml
Mitragynine	5.228	70274	32435.53	38.7	42441.58	37806	487.3878 ng/ml
Morphine	1.253	37164	904.27	23.0	295.14	972	480.9439 ng/ml
Norbuprenorphine	4.988	7832	8780.58	94.5	887.19	6884	51.5492 ng/ml
Nordiazepam	5.884	178558	12666.89	57.9	2693.83	11803	486.9207 ng/ml
Norfentanyl	4.084	70751	48502.36	37.8	1685.79	55735	50.8534 ng/ml
Norhydrocodone	3.073	89753	3685.51	42.3	601.26	23072	661.1887 ng/ml
Noroxycodone	2.921	104807	620.60	49.1	409.00	8255	487.1685 ng/ml
O-desmethyl-tramadol	3.373	901009	210140.01	6.6	5679.05	84206	494.6164 ng/ml
Oxazepam	5.740	226553	8128.78	71.2	3145.77	20572	464.7135 ng/ml
Oxycodone	2.840	295524	∞	31.7	∞	26733	497.4541 ng/ml
Oxymorphone	1.410	140766	1775.09	47.4	5619.88	10681	492.7234 ng/ml
Phentermine	3.781	134902	19107.79	4.0	297.25	31612	463.9061 ng/ml
Promethazine	5.542	416179	95111.15	29.4	1201.99	34547	503.2811 ng/ml
Quetiapine	5.552	300425	3922.82	59.5	5245.79	8590	488.6243 ng/ml
Sertraline	5.780	120143	1230.14	91.7	2860.39	10026	493.7318 ng/ml
Temazepam	5.808	491281	2754.35	29.3	1295.75	45792	504.2423 ng/ml
Tramadol	4.242	743112	15078.65	3.6	1013.82	80602	489.3339 ng/ml
Trazodone	5.161	303988	∞	77.8	151770.93	27468	495.6608 ng/ml
Venlafaxine	5.040	634015	69751.01	38.0	32077.97	63002	503.4316 ng/ml
Zolpidem	4.917	810145	107123.92	31.6	136045.84	85340	487.2422 ng/ml

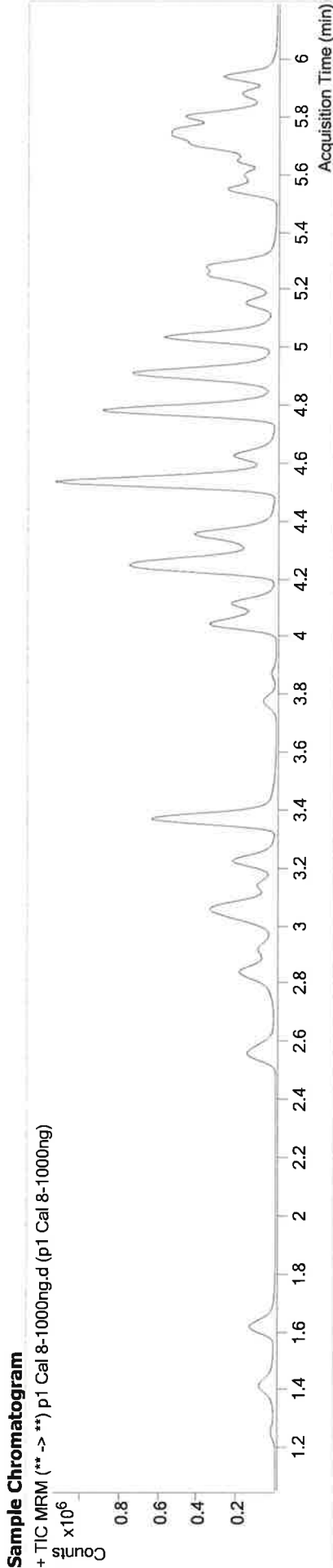
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AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2019\AM 28\040919 MDQ P1 and P2 TS\QuantResults\P1_wk1st 3238 TS.batch.bin
Calibration Last Update 4/12/2019 7:57:56 AM

Instrument FALCO-LCMS (Property ID 069901)
Type Cal
Acq. Method MDQ P1 Combined 011619.m
Sample Position P1-H1
Injection Volume 1
Acq. Date-Time 4/9/2019 6:38:13 PM
Sample Info. p1 Cal 8-1000ng.d
 p1 Cal 8-1000ng
 Tamara Salazar



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.144	91163	2064.30	71.2	4029.29	28740	99.9824 ng/ml
7-aminodiazepam	4.253	204034	35919.76	80.4	29452.19	12549	739.7792 ng/ml
a-hydroxyalprazolam	5.682	173209	1059.60	65.2	5714.59	10489	862.3299 ng/ml
alpha-PVP	4.360	682210	143874.97	51.7	45873.59	31152	1000.4954 ng/ml
Alprazolam	5.759	480831	4641.73	102.0	18188.53	14903	1001.9538 ng/ml
Amphetamine	3.062	510308	16261.55	64.1	30051.32	12678	627.9404 ng/ml
Benzoyllecgonine	3.876	33995	1780.36	7.8	4670.35	1215	1028.5515 ng/ml
Buprenorphine	5.838	15628	7771.71	17.3	2329.97	6514	102.1564 ng/ml
Bupropion	4.789	1575136	737804.66	59.0	118587.75	59064	985.0171 ng/ml
Carisoprodol	5.714	474892	12521.73	55.8	12037.46	27067	944.8212 ng/ml
Citalopram	5.222	159590	9776.87	43.3	67905.59	7471	976.9736 ng/ml
Clonazepam	5.595	246639	27604.15	35.0	39133.98	5066	867.5283 ng/ml
Cocaine	4.266	631745	258582.37	43.3	134663.24	63607	989.4066 ng/ml
Codeine	2.590	91135	808.06	100.8	913.48	4651	975.3927 ng/ml
Cyclobenzaprine	5.618	93601	2942.16	10.5	∞	3997	971.1283 ng/ml
Dextromethorphan	5.265	83228	21400.28	79.0	54160.21	4111	991.1980 ng/ml
Dextropropion	4.122	171851	9198.81	207.3	3316.11	20949	991.4418 ng/ml
Diazepam	5.945	339527	11393.21	87.7	39671.31	17004	943.5379 ng/ml

TS



AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Dihydrocodeine	2.555	248406	147871.52	71.4	154103.77	18214	803.4347 ng/ml
Diphenhydramine	5.292	515460	79527.23	34.2	32772.67	27511	995.9673 ng/ml
Doxylamine	4.535	1646311	∞	98.0	788619.63	79779	982.0881 ng/ml
EDDP	5.257	458101	102750.71	41.9	1727.69	23634	1004.9671 ng/ml
Fentanyl	5.093	10155	9516.89	77.1	1252.82	5262	98.9529 ng/ml
Fluoxetine	5.704	93356	4745.58	9.5	38462.94	3586	1001.2869 ng/ml
Hydrocodone	3.025	283952	∞	39.7	404.00	19610	928.2913 ng/ml
Hydromorphone	1.621	262870	∞	75.8	∞	10339	972.5187 ng/ml
Ketamine	4.049	662454	123589.30	37.2	5588.17	35067	931.5321 ng/ml
Lamotrigine	4.290	60045	∞	79.7	∞	35067	717.4061 ng/ml
Lorazepam	5.730	223037	∞	56.5	859.99	5066	332.6812 ng/ml
Meprobamate	4.899	214660	81622.53	28.0	7556.48	18063	609.9452 ng/ml
Methadone	5.650	236994	2353.97	50.8	2111.89	12023	982.9771 ng/ml
Methamphetamine	3.231	485038	15279.11	41.6	30644.06	23679	888.8914 ng/ml
Metoprolol	4.322	148182	43295.24	94.6	∞	77697	845.1957 ng/ml
Mirtazapine	4.630	348325	975061.08	47.2	∞	31152	511.0806 ng/ml
Mitragynine	5.228	35545	13409.96	37.6	2328.69	12023	775.5644 ng/ml
Morphine	1.260	64981	913.47	23.1	380.93	867	943.3430 ng/ml
Norbuprenorphine	4.988	4471	607.33	97.2	1630.28	2094	97.0633 ng/ml
Nordiazepam	5.891	246939	10694.30	58.0	1762.13	8844	899.0075 ng/ml
Norfentanyl	4.084	138864	56953.34	37.3	4788.96	49477	112.3783 ng/ml
Norhydrocodone	3.073	168259	2118.07	41.7	1190.06	21233	1343.5460 ng/ml
Noroxycodone	2.921	184889	1256.40	50.6	∞	7725	918.9262 ng/ml
O-desmethyl-tramadol	3.373	1718293	201391.18	6.6	18402.33	81154	978.9876 ng/ml
Oxazepam	5.740	239588	6623.24	70.2	6004.96	11755	860.7669 ng/ml
Oxycodone	2.840	561128	1085.88	31.6	2374.08	27390	922.2908 ng/ml
Oxymorphone	1.417	258177	1385.57	47.0	∞	10289	938.6414 ng/ml
Penthermine	3.781	195810	7436.33	3.9	205.23	25282	842.6080 ng/ml
Promethazine	5.535	176413	71350.58	29.7	4867.17	7717	955.2327 ng/ml
Quetiapine	5.552	290124	3716.32	59.7	2086.91	4156	975.5414 ng/ml
Setraline	5.780	41328	1596.44	89.5	1119.46	1710	996.2345 ng/ml
Temazepam	5.808	777951	12572.35	30.1	∞	38733	944.2603 ng/ml
Tramadol	4.242	1338042	610918.70	3.6	1521.82	77697	914.6157 ng/ml
Trazodone	5.161	232311	37008.53	78.9	44151.17	10432	998.1437 ng/ml
Venlafaxine	5.040	1097172	163492.32	38.0	1541.84	55376	991.6425 ng/ml
Zolpidem	4.917	1505597	758546.10	31.3	204369.91	82150	941.0233 ng/ml