3/25/2020

Worklist: 4106

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION	
M2019-1518	5	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
M2020-0662	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
M2020-0722	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
M2020-0741	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
M2020-0862	2	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
M2020-0865	4	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
M2020-1022	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0579	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0580	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0656	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0705	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0706	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0748	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0803	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖
P2020-0871	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-QQ	‖‖‖‖‖‖‖‖‖‖

Idaho State Police
Forensic Services
Toxicology Discipline

Request for Departure from an Analytical Method

Date of Request
01/13/2020

Forensic Scientist
Celena Shrum

Analytical Methods
Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows:
*MDS (batch IDP-107-190725)- Expiration is 1/25/2020
*THC (batch IDP-108-190716)- Expiration is 1/16/2020
*MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020
*MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

Date: 01/13/2020
Celena Shrum
Toxicology Discipline Lead

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

Extraction Date: 03/26/2020
Plate lot#: Item #:IDP-111   Lot:190729

Analyst: Tamara Salazar
Plate Expiration: 01/29/20—Ok, Deviation in place

Mobile phase A: 5mM Amm Form + 0.01% FA
   0.5M Ammonium Hydroxide
Blank Blood Lot: 445283-3
Blank Urine Lot: POC031319
LCMS-QQQ ID: 069901

Mobile phase B: 0.01% Formic Acid in MeOH
Ethyl Acetate   20% Methanol in Water
Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

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.

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Urine Hydrolysis: In blank well, add 250μL urine, 40μL BG Turbo, and 100μL 500mM sodium phosphate buffer. Place plate on shaker for 5 minutes.
☒ 3. Pipette **250μL blood and urine** (if applicable) **(calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: 42**
☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.   *Shaker ID: 067105*
☒ 5. Pipette **250μL 00.5M ammonium hydroxide** in wells of analytical plate.
☒ 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 7. Transfer **300μL of blood+base** or **urine+base** mixture to corresponding wells of SLE+ plate.
☒ 8. 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*
☒ 9. Wait 5 minutes.
☒ 10. Add **900uL ethyl acetate.**
☒ 11. Wait 5 minutes.
☒ 12. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
☒ 13. Add **900uL ethyl acetate.**
☒ 14. Wait 5 minutes.
☒ 15. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
☒ 16. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. If run contains urine, add 50μL 1%HCl in MeOH to wells and place plate cover on plate before drying. *SPE Dry ID: 067103*
☒ 17. Reconstitute in **100μL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
   Worklist path: *D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS*
   Batch Name: *AM 28 TS*
☒ 2. Make necessary changes to integration limits
☒ 3. Integration linear and R^2 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: 7-aminoclonazepam: 5-500, Amphetamine 5-500, Buprenorphine 1-100, Lamotrigine 5-250, Lorazepam 5-250, Meprobamate 5-500, Norbuprenorphine 1-100,*

Not evaluated: Dihydrocodeine

Idaho State Police
Forensic Services

AM #25 Blood Multi-Drug Screen by LCMS-QQQ
And
AM #28 Blood Multi-Drug Confirmatory Analysis by
LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 031820)
100 µL of 1mg/mL stock was added to each drug to 9700 µL of LC MeOH.

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/18/20		
Prepared By:	Sarah Pickle		
Expires:	03/18/21		

Blood External Control Solution (Lot: WS031820)
100 µL of methanol external control solution was added to 9900 µL of blood.
Approximately 100 ng/mL of each compound.

Component	Source	Source Lot Number
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031820
Prepared:	03/18/20	
Prepared by:	Sarah Pickle	
Expires:	03/18/21	

Idaho State Police
Forensic Services

AM #25 Urine Multi-Drug Screen by LCMS-QQQ
And
AM #28 Urine Multi-Drug Confirmatory Analysis by
LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 031820)
100 µL of 1mg/mL stock was added to each drug to 9700 µL of LC MeOH.

Component	Source	Source Lot Number	Expiration Date
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	03/18/20		
Prepared By:	Sarah Pickle		
Expires:	03/18/21		

Urine External Control Solution (Lot: WS031820)
100 µL of methanol external control solution was added to 9900 µL of urine.
Approximately 100 ng/mL of each compound.

Component	Source	Source Lot Number
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	03/23/20	
Prepared by:	Tamara Salazar	
Expires:	Per AM 21 reference materials used for qualitative purposes do not have an expiration date.	

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Negative Blood.d
Type	Sample	**Sample**	p1 Negative Blood
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-E2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 2:55:34 PM		
Sample Info.			

Sample Chromatogram

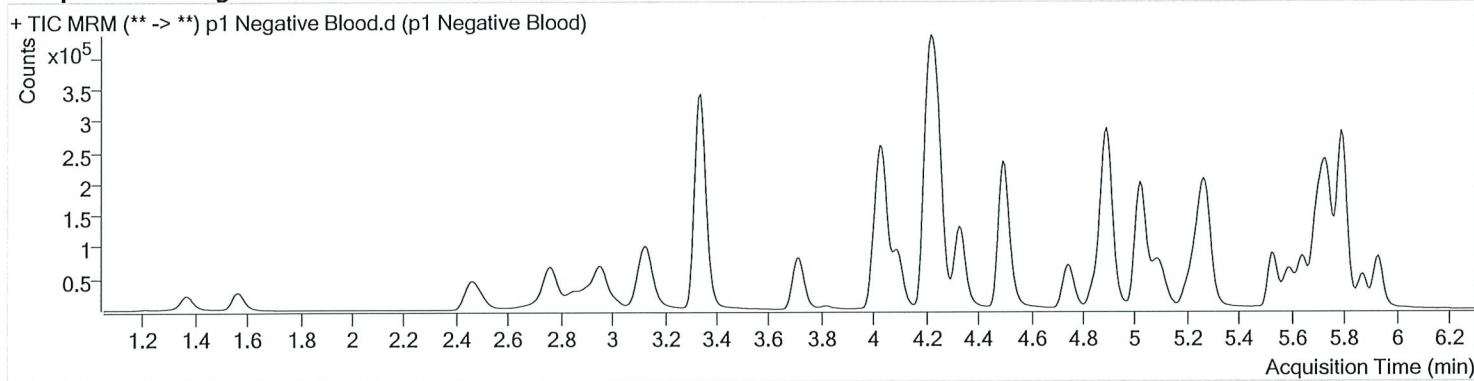+ TIC MRM (** -> **) p1 Negative Blood.d (p1 Negative Blood)

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update 3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Blood External Control.d
Type	Sample	**Sample**	p1 Blood External Control
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-F2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 3:06:08 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Blood External Control.d (p1 Blood External Control)

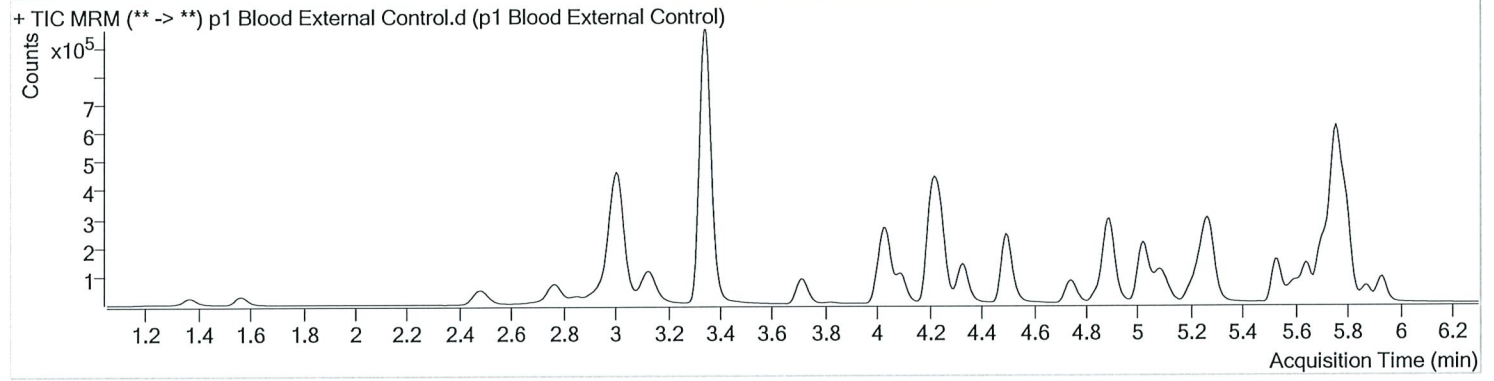| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	621656	1568.25	102.5	1612.79	174229	89.8278 ng/ml
Amphetamine	3.007	1142492	9856.82	53.6	9811.75	142105	103.5965 ng/ml
O-desmethyl-tramadol	3.348	1884204	∞	6.0	746.44	1043383	97.7357 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Negative Urine.d
Type	Sample	**Sample**	p1 Negative Urine
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-G2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 3:27:18 PM		
Sample Info.			

Sample Chromatogram

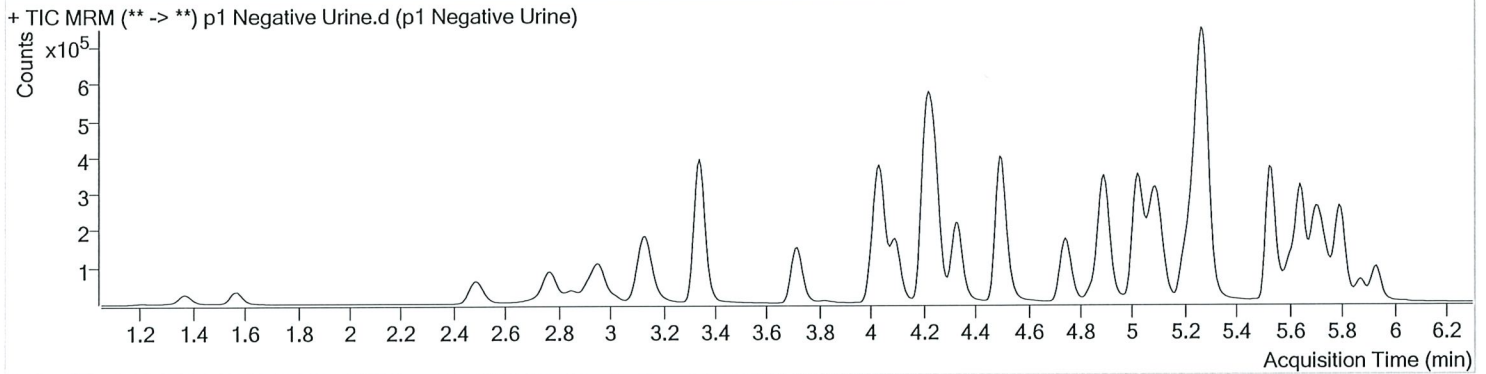+ TIC MRM (** -> **) p1 Negative Urine.d (p1 Negative Urine)

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Urine External Control.d
Type	Sample	**Sample**	p1 Urine External Control
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-H2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 3:37:52 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Urine External Control.d (p1 Urine External Control)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	283839	804.16	100.8	728.68	131181	54.6413 ng/ml
Amphetamine	2.718 **Low**	825288	359.08	46.3	223.77	183644	57.4674 ng/ml
O-desmethyl-tramadol	3.328	1321588	2307.51	6.0	446.57	1228760	58.1682 ng/ml

Amphetamine positive as the internal standard peak shifted with the compound peak.   TS
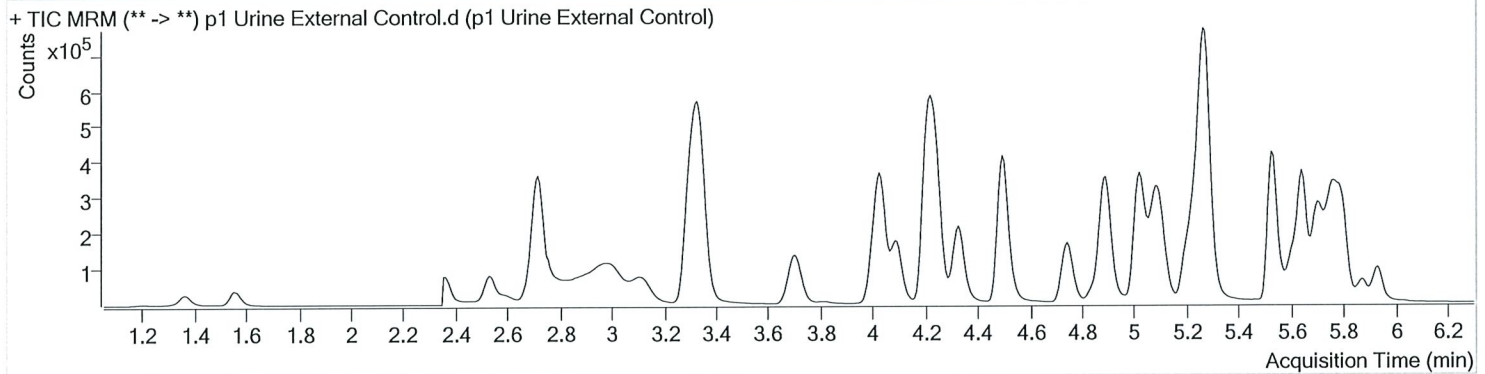
AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update 3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Negative Urine_r.d
Type	Sample	**Sample**	p1 Negative Urine_r
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-G2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/27/2020 10:58:02 AM		
Sample Info.			

> Instrument mobile phase A ran out before the completion of the run. New mobile phase was created and both the negative urine control and external urine control were reinjected to look for shifts in retention times.

TS
3/27/20

Sample Chromatogram

+ TIC MRM (** -> **) p1 Negative Urine_r.d (p1 Negative Urine_r)
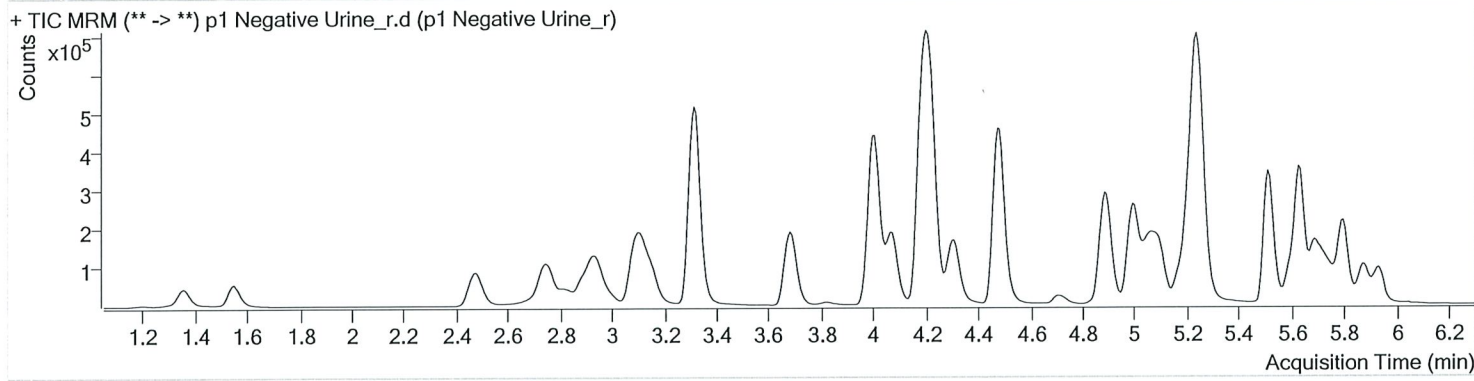
AM #28 Multi-Drug Quant. Results

TS

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update 3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Urine External Control_reinject new MP.d
Type	Sample	**Sample**	p1 Urine External Control_reinject new MP
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-H2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/27/2020 9:53:47 AM		
Sample Info.			

Comment box:
> Instrument mobile phase A ran out before the completion of the run. New mobile phase was created and both the negative urine control and external urine control were reinjected to look for shifts in retention times.

TS 3/27/20

Sample Chromatogram

+ TIC MRM (** -> **) p1 Urine External Control_reinject new MP.d (p1 Urine External Control_reinject new MP)

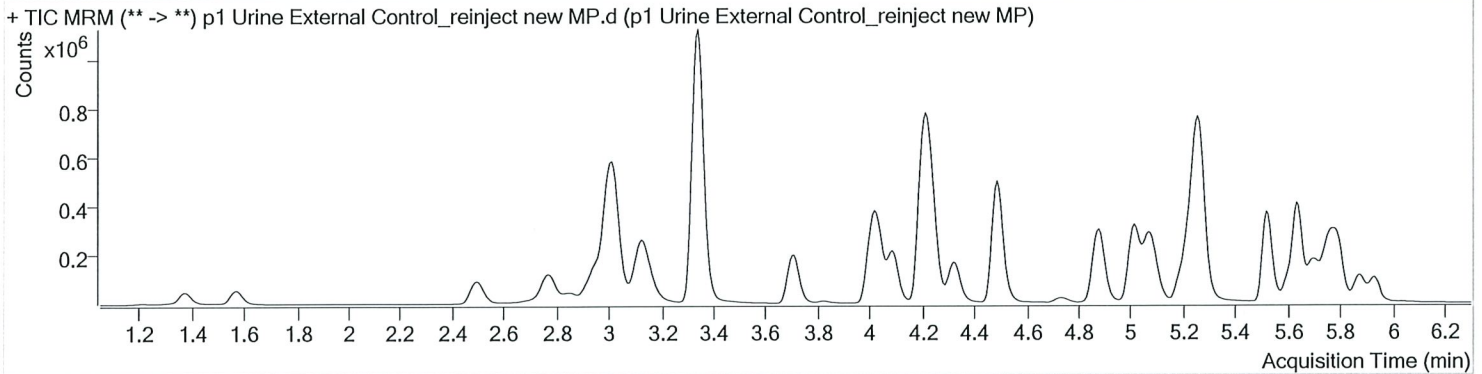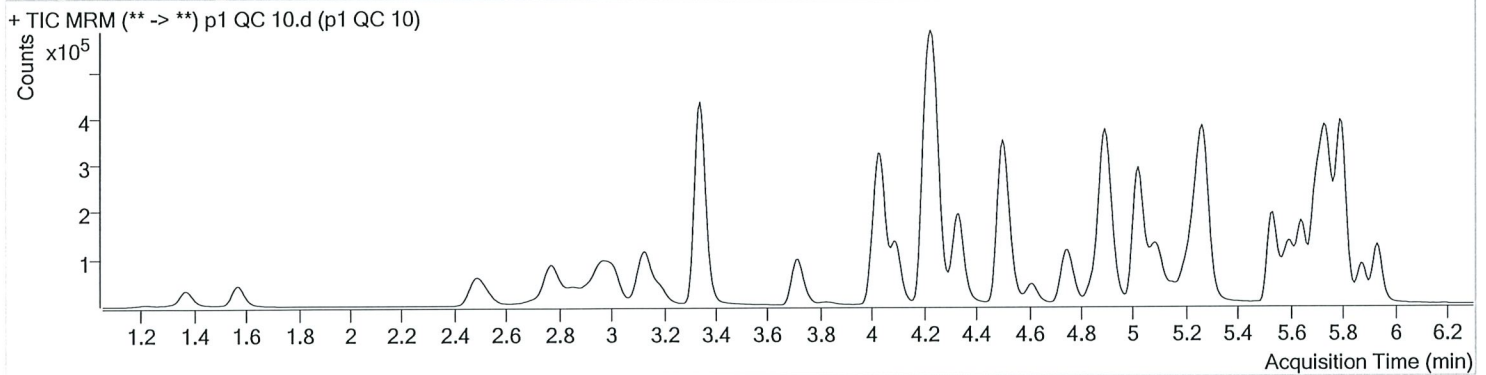| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Alprazolam	5.756	262725	643.94	103.0	1437.73	124635	53.2442 ng/ml
Amphetamine	3.014	1288734	13223.12	59.0	14361.94	312705	52.6188 ng/ml
O-desmethyl-tramadol	3.341	1825562	∞	6.0	884.09	1704264	57.9313 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update 3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 QC 10.d
Type	QC	**Sample**	p1 QC 10
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-A2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 1:20:14 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 QC 10.d (p1 QC 10)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	2023	7793.97	71.6	1595.41	42593	1.0759 ng/ml
7-aminoclonazepam	4.231	43807	1287.96	81.3	276.50	181124	9.7972 ng/ml
a-hydroxyalprazolam	5.680	19238	187.07	62.2	1432.53	42253	10.2260 ng/ml
alpha-PVP	4.344	93936	968.75	50.2	1305.49	424275	10.1629 ng/ml
Alprazolam	5.756	74385	438.55	102.4	911.25	187296	10.3789 ng/ml
Amphetamine	3.007	130368	1949.71	54.1	1055.06	151586	10.1926 ng/ml
Benzoylecgonine	3.847	3634	∞	8.5	22.28	14258	10.1542 ng/ml
Buprenorphine	5.862	2144	40.93	14.7	15.03	73462	1.1517 ng/ml
Bupropion	4.766	78691	589.64	59.1	1972.92	278642	10.0470 ng/ml
Carisoprodol	5.705	61255	2269.48	55.9	1077.78	296091	10.1934 ng/ml
Citalopram	5.202	42655	610.86	41.1	84631.37	195145	9.9179 ng/ml
Clonazepam	5.593	85810	1778.11	34.6	224.87	101665	10.1119 ng/ml
Cocaine	4.243	102917	7436.89	44.4	3297.07	813896	9.9858 ng/ml
Codeine	2.536	12141	1545.48	102.5	90.15	53997	10.2647 ng/ml
Cyclobenzaprine	5.617	31970	47790.62	10.4	129.91	121910	10.0026 ng/ml
Dextromethorphan	5.252	23471	744.40	80.2	355.52	110335	9.8684 ng/ml
Dextrorphan	4.093	21771	570.12	212.4	2675.24	276130	10.3245 ng/ml
Diazepam	5.941	49390	311.63	86.0	1801.36	227487	10.2571 ng/ml
Dihydrocodeine	2.514	30116	438.28	65.8	459.31	164859	10.2901 ng/ml
Diphenhydramine	5.272	101657	241.35	33.5	1301.50	725849	10.5749 ng/ml
Doxylamine	4.514	197113	30839.58	97.7	4613.00	836563	9.9917 ng/ml
EDDP	5.244	67204	1970.05	41.5	515.69	354832	10.2905 ng/ml
Fentanyl	5.086	3328	253.31	63.5	9687.09	180208	1.0371 ng/ml
Fluoxetine	5.702	36899	488.31	8.6	187.72	146888	10.7219 ng/ml
Hydrocodone	2.991	34551	75.58	40.8	165.44	224523	10.0980 ng/ml
Hydromorphone	1.581	27145	131.01	78.4	364.79	102598	9.8389 ng/ml
Ketamine	4.026	88789	1189.45	37.7	192.42	402156	10.0951 ng/ml
Lamotrigine	4.254	8380	638.31	83.2	1499.57	402156	10.1387 ng/ml
Lorazepam	5.734	69035	1100.05	57.7	144.96	101665	10.1851 ng/ml
Meprobamate	4.875	29497	350.52	27.0	316.53	156998	9.9039 ng/ml
Methadone	5.648	59815	3031.79	55.0	582.68	297993	10.0997 ng/ml
Methamphetamine	3.188	73758	728.93	42.6	320.58	284399	9.6009 ng/ml
Metoprolol	4.306	13966	1866.74	97.6	1259.44	986708	10.1403 ng/ml

p1 QC 10

*Compound not evaluated. - 3/27/20 TS

AM #28 Multi-Drug Quant. Results

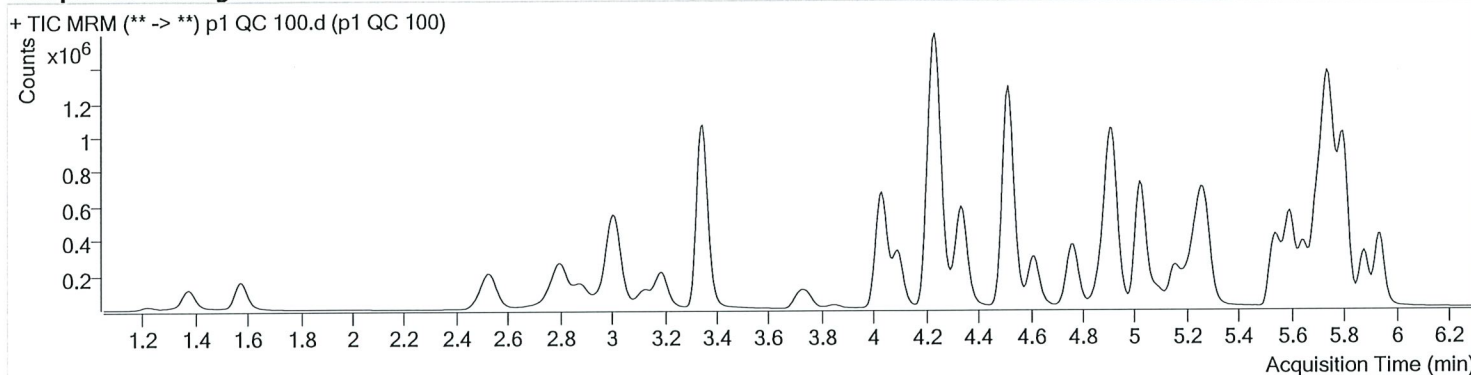| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.609	80177	5297.81	50.0	6333.41	424275	10.3657 ng/ml
Mitragynine	5.220	9758	495.62	39.9	18597.84	297993	10.5827 ng/ml
Morphine	1.220	4173	269.06	24.1	426.62	4236	9.9431 ng/ml
Norbuprenorphine	4.976	214	10.44	91.4	∞	8621	1.0166 ng/ml
Nordiazepam	5.881	45273	1043.29	57.6	745.17	136973	10.4408 ng/ml
Norfentanyl	4.061	13307	1587.91	39.5	299.14	601815	0.9441 ng/ml
Norhydrocodone	3.039	3051	86.90	49.5	133.27	33787	8.9283 ng/ml
Noroxycodone	2.876	31978	∞	49.3	855.55	100130	9.7735 ng/ml
O-desmethyl-tramadol	3.348	206484	1899.61	6.2	557.15	1105138	10.0192 ng/ml
Oxazepam	5.738	81558	1045.06	70.1	417.61	479846	10.3116 ng/ml
Oxycodone	2.800	71849	617.21	31.2	352.51	321504	10.5300 ng/ml
Oxymorphone	1.376	25085	304.87	48.9	171.19	90613	9.8161 ng/ml
Phentermine	3.745	25568	440.13	2.6	∞	307590	10.1440 ng/ml
Promethazine	5.534	73749	860.98	30.0	841.75	332364	10.2850 ng/ml
Quetiapine	5.551	52178	1754.68	60.7	916.94	65944	10.4638 ng/ml
Sertraline	5.770	18317	413.77	91.7	161.81	79161	10.3132 ng/ml
Temazepam	5.805	128824	513.86	30.5	321.59	683046	10.1263 ng/ml
Tramadol	4.219	199238	3408.61	3.5	74.43	986708	10.3949 ng/ml
Trazodone	5.154	64722	967.71	79.3	561.40	272634	10.2095 ng/ml
Venlafaxine	5.020	132177	1122.47	35.9	1580.34	701023	10.2408 ng/ml
Zolpidem	4.911	207744	132.85	31.4	1594.17	982554	9.8965 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 QC 100.d
Type	QC	**Sample**	p1 QC 100
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-B2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 1:41:26 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 QC 100.d (p1 QC 100)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	19138	27265.98	71.2	666.62	42855	9.9456 ng/ml
7-aminoclonazepam	4.237	404273	13526.84	80.7	686.19	176529	99.1684 ng/ml
a-hydroxyalprazolam	5.680	179572	784.98	62.3	449.52	41556	99.4041 ng/ml
alpha-PVP	4.344	849948	6442.58	51.1	21393.43	392634	95.1313 ng/ml
Alprazolam	5.756	680599	1954.94	103.8	5147.78	174542	98.1288 ng/ml
Amphetamine	3.014	1056410	9367.41	53.6	6157.59	130289	104.4863 ng/ml
Benzoylecgonine	3.847	34777	1073.96	7.9	239.02	13759	100.8183 ng/ml
Buprenorphine	5.862	12860	144.74	16.3	126.21	47576	9.4939 ng/ml
Bupropion	4.766	638959	44146.82	57.8	20178.47	227695	99.5586 ng/ml
Carisoprodol	5.705	571158	1416.13	54.6	671.10	285422	101.0717 ng/ml
Citalopram	5.202	300332	2596.45	41.0	2179.02	139206	98.1965 ng/ml
Clonazepam	5.593	819339	2347.18	33.4	∞	100434	100.5400 ng/ml
Cocaine	4.243	935227	∞	44.8	71197.42	754620	94.8118 ng/ml
Codeine	2.543	119460	1762.91	100.4	11798.85	53096	105.2869 ng/ml
Cyclobenzaprine	5.617	196386	27262.19	10.0	2435.54	77177	99.3225 ng/ml
Dextromethorphan	5.252	155122	18281.66	81.0	370.05	73519	96.2588 ng/ml
Dextrorphan	4.093	193463	10464.99	212.2	2719.54	253287	100.0292 ng/ml
Diazepam	5.941	473101	3668.33	87.2	2699.98	224241	100.1422 ng/ml
~~Dihydrocodeine~~	~~2.521~~	~~292142~~	~~971.30~~	~~67.9~~	~~1599.17~~	~~168993~~	~~102.7164 ng/ml~~
Diphenhydramine	5.279	682901	13497.76	33.7	689.85	506108	96.4802 ng/ml
Doxylamine	4.514	1772818	65346.69	97.5	80044.67	776354	98.5640 ng/ml
EDDP	5.244	496660	2741.95	42.0	1575.51	273332	99.3808 ng/ml
Fentanyl	5.086	19821	627.86	67.9	30611.70	114935	9.6521 ng/ml
Fluoxetine	5.702	212640	599.37	8.7	903.71	91157	99.7275 ng/ml
Hydrocodone	2.991	320255	448.22	40.4	∞	223166	101.3118 ng/ml
Hydromorphone	1.581	256681	∞	78.4	∞	100003	98.0106 ng/ml
Ketamine	4.033	853850	78752.63	38.4	2656.71	403609	100.4902 ng/ml
Lamotrigine	4.254	77352	4990.15	80.0	∞	403609	100.6726 ng/ml
Lorazepam	5.728	596770	∞	58.4	2686.86	100434	107.3705 ng/ml
Meprobamate	4.875	279897	12607.04	26.4	440.69	154738	99.9556 ng/ml
Methadone	5.648	402257	2015.74	54.8	935.99	200063	95.3042 ng/ml
Methamphetamine	3.188	490095	3578.69	42.5	890.61	213061	100.5890 ng/ml
Metoprolol	4.306	129962	∞	95.1	5397.03	967229	96.3954 ng/ml

p1 QC 100   Generated at 2:48 PM on 3/27/2020

*Compound not evaluated - 3/27/2020 TS

AM #28 Multi-Drug Quant. Results

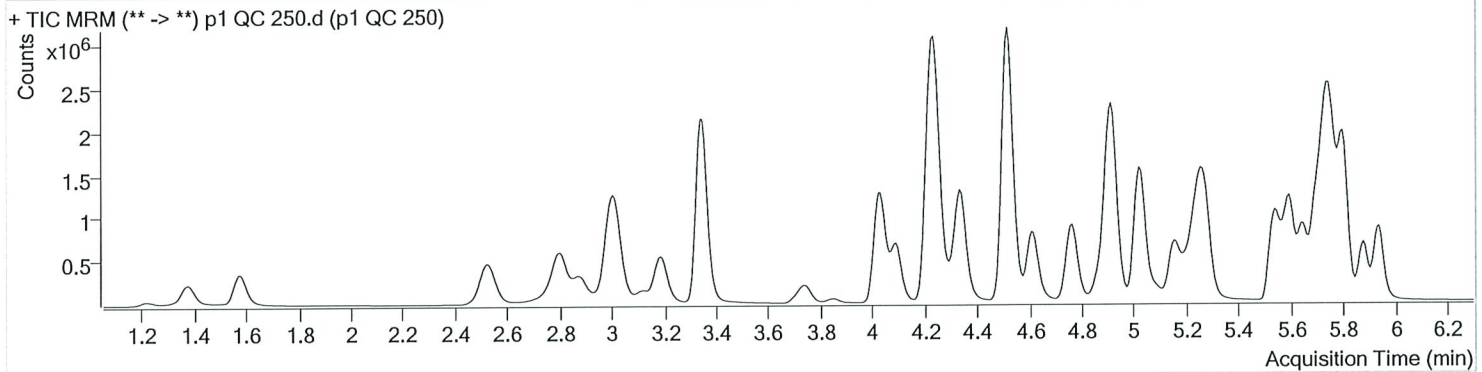| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	584195	10068.33	49.5	38902.81	392634	74.6550 ng/ml
Mitragynine	5.220	60242	121206.99	38.7	∞	200063	99.4256 ng/ml
Morphine	1.220	39473	810.98	23.8	182.12	4150	99.9519 ng/ml
Norbuprenorphine	4.976	1222	88.20	75.2	44.94	5870	9.8392 ng/ml
Nordiazepam	5.881	437537	2696.13	56.8	6086.19	139281	101.1736 ng/ml
Norfentanyl	4.061	127234	12595.22	37.6	3155.69	563260	9.3366 ng/ml
Norhydrocodone	3.039	28578	356.50	43.7	79.68	28563	93.8274 ng/ml
Noroxycodone	2.876	309848	4210.74	49.4	4478.77	96582	100.3955 ng/ml
O-desmethyl-tramadol	3.348	2058926	247167.02	6.0	5941.88	1127910	98.7963 ng/ml
Oxazepam	5.738	703598	19975.48	71.7	2729.84	440015	100.3960 ng/ml
Oxycodone	2.800	714028	5196.69	31.7	1757.57	325022	105.7181 ng/ml
Oxymorphone	1.376	246348	∞	48.2	∞	92198	98.7242 ng/ml
Phentermine	3.751	211497	3867.22	2.5	288.29	261566	102.8337 ng/ml
Promethazine	5.534	452697	5967.98	31.4	1197.17	213131	95.1956 ng/ml
Quetiapine	5.551	387168	776.43	59.8	8807.53	48567	106.7047 ng/ml
Sertraline	5.770	104803	4891.33	92.6	512.84	47496	92.8680 ng/ml
Temazepam	5.798	1270213	5037.23	29.3	946.88	673861	101.6805 ng/ml
Tramadol	4.226	1825881	3004.55	3.4	675.35	967229	103.7217 ng/ml
Trazodone	5.154	449515	23926.42	78.4	39992.39	193386	102.5647 ng/ml
Venlafaxine	5.020	1169046	39301.92	36.4	1335.52	634712	95.2242 ng/ml
Zolpidem	4.911	2051034	53706.23	30.5	323.61	970449	100.4003 ng/ml

AM #28 Multi-Drug Quant. Results

TS

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update 3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 QC 250.d
Type	QC	**Sample**	p1 QC 250
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-C2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 2:02:36 PM		
Sample Info.			

Sample Chromatogram

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

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	52085	7318.14	70.6	3572.38	45099	25.6886 ng/ml
7-aminoclonazepam	4.231	853981	681.65	80.0	273.35	153221	242.4322 ng/ml
a-hydroxyalprazolam	5.680	410586	1049.00	62.9	3740.56	38049	248.6504 ng/ml
alpha-PVP	4.344	2206245	7282.01	50.7	109549.64	398174	242.7475 ng/ml
Alprazolam	5.756	1547889	∞	102.6	∞	154242	251.8729 ng/ml
Amphetamine	3.014	2367371	20259.98	58.0	99320.64	136779	224.1700 ng/ml
Benzoylecgonine	3.847	93598	5486.01	7.9	873.73	14535	256.8611 ng/ml
Buprenorphine	5.862	35862	586.75	16.5	272.52	50803	24.5649 ng/ml
Bupropion	4.766	1699400	161160.18	58.1	3437.55	239684	251.4987 ng/ml
Carisoprodol	5.705	1246887	300519.27	54.7	2892.37	249157	253.1915 ng/ml
Citalopram	5.202	806823	699.44	40.8	11033.79	147412	249.1660 ng/ml
Clonazepam	5.593	1891913	2160.22	33.6	45764.76	93040	251.0868 ng/ml
Cocaine	4.243	2282379	152162.49	43.9	80055.08	724364	240.5125 ng/ml
Codeine	2.543	282808	5004.00	103.2	749.11	51384	257.9769 ng/ml
Cyclobenzaprine	5.617	558676	1723.80	9.9	1612.08	87267	250.2760 ng/ml
Dextromethorphan	5.252	424024	522.61	79.2	∞	78194	247.1037 ng/ml
Dextrorphan	4.093	491290	29996.83	211.7	15488.17	255029	252.2862 ng/ml
Diazepam	5.941	1124013	4629.83	86.6	5419.30	209017	255.3336 ng/ml
Dihydrocodeine	2.521	735039	4717.99	66.9	1501.43	171259	255.9535 ng/ml
Diphenhydramine	5.279	1892869	1130.26	33.1	771.02	548564	245.7527 ng/ml
Doxylamine	4.514	4780915	229687.21	96.5	324892.83	826044	250.1221 ng/ml
EDDP	5.244	1357999	45860.26	42.7	22594.34	296818	250.3469 ng/ml
Fentanyl	5.086	61348	1825.34	62.8	2061.63	135249	25.3815 ng/ml
Fluoxetine	5.702	563824	14455.72	8.8	107.80	96356	250.1939 ng/ml
Hydrocodone	2.991	787258	∞	42.3	∞	228013	244.9589 ng/ml
Hydromorphone	1.581	651570	∞	78.7	∞	103240	241.4221 ng/ml
Ketamine	4.026	2187210	5908.81	37.9	36051.93	408619	254.9280 ng/ml
Lamotrigine	4.254	171481	∞	78.9	5074.06	408619	221.5197 ng/ml
Lorazepam	5.728	1143750	4129.53	57.5	25111.15	93040	224.6527 ng/ml
Meprobamate	4.875	635701	∞	26.1	32410.02	143244	246.0106 ng/ml
Methadone	5.648	1112053	31313.52	55.2	983.27	219229	239.4475 ng/ml
Methamphetamine	3.188	1328246	1694.82	42.7	15174.61	231924	253.3643 ng/ml
Metoprolol	4.306	326348	44616.73	97.8	7579.39	934076	250.6757 ng/ml

*3/27/2020 TS ** (handwritten, next to Dihydrocodeine)*

p1 QC 250

Generated at 2:48 PM on 3/27/2020

✱ Compound not evaluated - 3/27/20 TS

AM #28 Multi-Drug Quant. Results

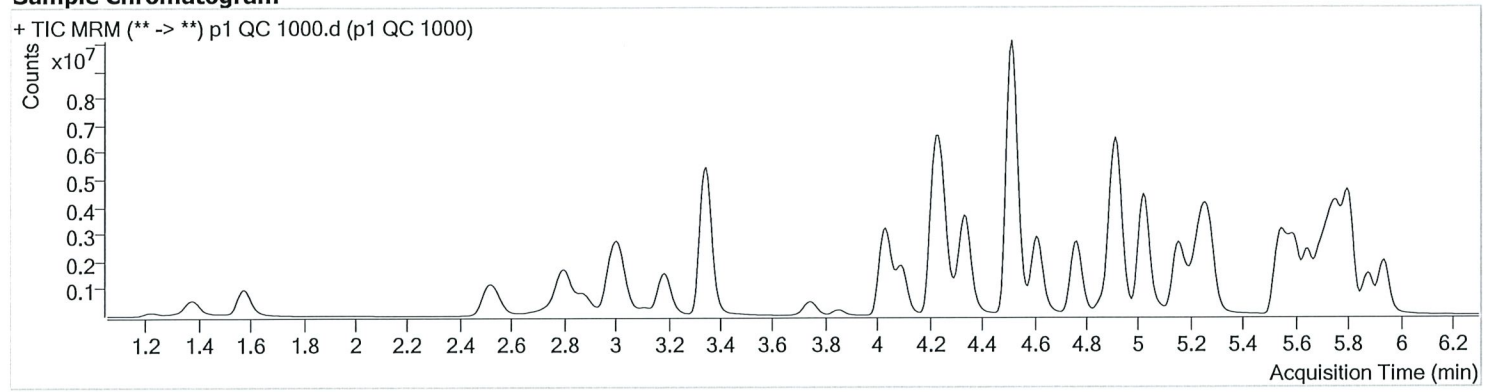| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.609	1636596	11942.10	49.3	163636.56	398174	204.4479 ng/ml
Mitragynine	5.220	166474	4527.08	39.7	209050.42	219229	251.1287 ng/ml
Morphine	1.220	101490	2572.03	23.6	271.28	4251	251.5561 ng/ml
Norbuprenorphine	4.976	3305	229.29	79.7	96.63	6566	24.0417 ng/ml
Nordiazepam	5.881	1031481	∞	57.0	2496.37	128331	259.2218 ng/ml
Norfentanyl	4.061	332116	3168.40	37.5	1849.23	565896	24.2040 ng/ml
Norhydrocodone	3.039	67597	91.87	43.8	138.85	25090	251.7964 ng/ml
Noroxycodone	2.876	751185	9785.37	48.2	420.22	92522	254.4501 ng/ml
O-desmethyl-tramadol	3.348	5240586	187319.81	6.0	989.93	1110652	255.5377 ng/ml
Oxazepam	5.738	1454297	∞	69.3	8011.38	357408	256.0969 ng/ml
Oxycodone	2.800	1817355	2799.22	32.1	3224.60	331208	264.4237 ng/ml
Oxymorphone	1.376	574200	∞	49.7	∞	88635	240.0155 ng/ml
Phentermine	3.745	549453	15768.23	2.5	773.03	272160	257.4688 ng/ml
Promethazine	5.534	1329482	4244.60	30.9	28097.71	240876	246.7611 ng/ml
Quetiapine	5.551	1046141	1031.47	60.6	617.64	53842	260.2757 ng/ml
Sertraline	5.770	279986	746.54	90.4	9620.55	49834	235.4675 ng/ml
Temazepam	5.798	2979163	78078.89	29.9	1558.07	622396	258.2829 ng/ml
Tramadol	4.219	4456091	131716.56	3.4	3728.42	934076	263.3153 ng/ml
Trazodone	5.154	1286812	52239.32	77.4	131212.96	219356	259.2975 ng/ml
Venlafaxine	5.020	3063547	182970.83	36.3	1549.77	648818	243.2566 ng/ml
Zolpidem	4.911	5149268	543814.49	30.7	111118.19	964397	253.8939 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 QC 1000.d
Type	QC	**Sample**	p1 QC 1000
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-D2	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 2:23:48 PM		
Sample Info.			

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	3.109	190589	17347.04	70.7	16003.57	39997	105.9237 ng/ml
7-aminoclonazepam	4.237	1482767	∞	81.0	∞	85947	752.0014 ng/ml
a-hydroxyalprazolam	5.673	1026769	∞	63.0	1738.15	24405	970.2332 ng/ml
alpha-PVP	4.344	7026659	307144.49	50.0	144488.54	310371	990.3505 ng/ml
Alprazolam	5.756	4042953	∞	101.9	∞	98441	1029.4579 ng/ml
Amphetamine	3.014	6154124	37307.73	51.4	61844.62	109603	729.4687 ng/ml
Benzoylecgonine	3.847	405024	24955.71	7.8	12167.33	14355	1125.5103 ng/ml
Buprenorphine	5.855	100451	557.78	16.0	362.79	34201	101.7615 ng/ml
Bupropion	4.766	5439494	242317.91	57.8	5019.51	191014	1010.0268 ng/ml
Carisoprodol	5.705	2736454	26727.59	53.2	31356.12	139569	992.7923 ng/ml
Citalopram	5.202	2278524	3703.16	41.0	785.71	103984	997.6499 ng/ml
Clonazepam	5.593	4772694	633685.46	33.0	45011.43	61310	962.1354 ng/ml
Cocaine	4.243	6395454	740595.65	43.7	141908.90	490133	994.9194 ng/ml
Codeine	2.543	778830	10532.97	102.6	623.37	37777	967.1116 ng/ml
Cyclobenzaprine	5.617	1423172	1250064.19	9.8	11128.24	54704	1017.8587 ng/ml
Dextromethorphan	5.245	1054345	26154.24	79.9	127490.83	48070	998.9236 ng/ml
Dextrorphan	4.093	1490492	2131.55	212.3	86064.57	190403	1025.1850 ng/ml
Diazepam	5.941	3029155	129411.38	87.8	3448.16	145975	985.4363 ng/ml
Dihydrocodeine	2.508	2237305	∞	66.7	36857.54	153909	868.4000 ng/ml
Diphenhydramine	5.279	5439121	1868.88	33.2	867.73	381058	1014.6190 ng/ml
Doxylamine	4.514	16283220	∞	97.8	834933.67	713060	987.4539 ng/ml
EDDP	5.244	5049270	1233.10	42.2	1022.51	267037	1034.8834 ng/ml
Fentanyl	5.086	170962	17355.88	64.4	115101.27	90870	105.2637 ng/ml
Fluoxetine	5.702	1156719	115605.10	9.1	11359.95	49076	1007.8452 ng/ml
Hydrocodone	2.985	2294425	757.77	43.2	217.71	187093	872.2527 ng/ml
Hydromorphone	1.581	2039640	683.33	78.4	∞	80000	976.1733 ng/ml
Ketamine	4.026	6996114	272238.83	37.1	44499.42	343789	970.4214 ng/ml
Lamotrigine	4.261	353489	74499.97	81.4	∞	343789	544.0610 ng/ml
Lorazepam	5.728	1445149	∞	58.7	4301.00	61310	432.9144 ng/ml
Meprobamate	4.868	1412331	20949.32	25.6	381.02	102974	761.4207 ng/ml
Methadone	5.648	3319945	3753.81	53.6	3226.08	161455	968.6622 ng/ml
Methamphetamine	3.188	3949897	45441.03	42.4	14612.62	189282	928.3691 ng/ml
Metoprolol	4.306	934052	3251243.40	96.5	9435.60	699395	958.2567 ng/ml

Handwritten annotations in left margin:
3/27/2020 TS ** (7-aminoclonazepam)
3/27/2020 TS ** (Amphetamine)
3/27/2020 TS * (Dihydrocodeine)
3/27/2020 TS ** (Lamotrigine)
3/27/2020 TS * * (Lorazepam)
* * (Meprobamate)
3/27/2020 TS (Methadone)

p1 QC 1000

Handwritten: * Compound not evaluated – 3/27/2020 – TS
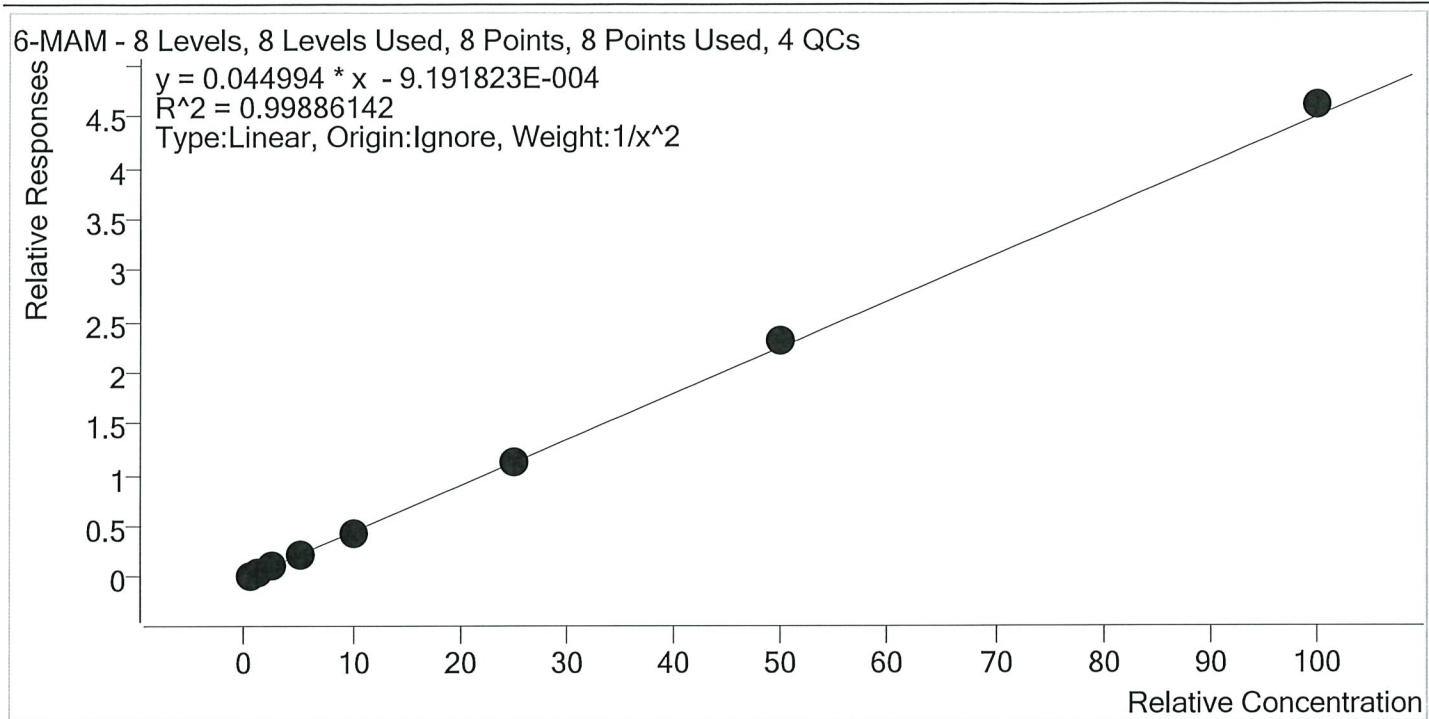** Outside curve range – 3/27/2020 – TS

Generated at 2:48 PM on 3/27/2020

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.609	5863030	348139.19	49.3	272390.00	310371	935.9846 ng/ml
Mitragynine	5.220	425209	689935.01	38.9	17882.89	161455	871.5965 ng/ml
Morphine	1.220	322102	2364.39	24.1	∞	3735	909.9757 ng/ml
Norbuprenorphine	4.976	9423	911.26	82.0	∞	4624	97.8902 ng/ml
Nordiazepam	5.881	2664378	3587.21	56.7	2184.51	85120	1010.1648 ng/ml
Norfentanyl	4.061	1043702	∞	37.4	3379.56	372572	115.4052 ng/ml
Norhydrocodone	3.039	224689	∞	41.9	584.11	18044	1161.9574 ng/ml
Noroxycodone	2.876	1896729	815.93	50.4	6110.88	62216	956.1222 ng/ml
O-desmethyl-tramadol	3.348	16567002	336701.97	5.8	9505.94	853433	1051.6254 ng/ml
Oxazepam	5.731	2151174	30303.12	74.2	5733.65	148376	913.5207 ng/ml
Oxycodone	2.800	6098043	7830.66	31.6	4501.21	291160	1010.0024 ng/ml
Oxymorphone	1.376	1689249	∞	50.3	∞	65397	958.3869 ng/ml
Phentermine	3.745	1621477	∞	2.5	16977.25	223305	927.2802 ng/ml
Promethazine	5.527	3640339	2848.01	30.5	25605.86	164484	988.3354 ng/ml
Quetiapine	5.551	3906492	304316.07	60.0	3448.23	50716	1032.2491 ng/ml
Sertraline	5.777	498075	19767.84	90.3	968.71	20817	1000.6877 ng/ml
Temazepam	5.805	8505869	∞	29.1	10929.98	424990	1080.1288 ng/ml
Tramadol	4.219	12648254	∞	3.2	1007.33	699395	1000.3736 ng/ml
Trazodone	5.154	4967327	4534518.79	78.9	∞	223860	981.6211 ng/ml
Venlafaxine	5.020	10219034	3827.27	35.2	33102.62	521303	1008.1777 ng/ml
Zolpidem	4.911	16856906	∞	29.8	197847.82	809893	990.1961 ng/ml

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	6-MAM

Internal Standard 6-MAM-D6

6-MAM - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
$y = 0.044994 * x - 9.191823E\text{-}004$
$R^2 = 0.99886142$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	102.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	96.8
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.9
p1 Cal 4-50ng	4	✓	5.0	5.1	101.7
p1 Cal 5-100ng	5	✓	10.0	9.5	95.1
p1 Cal 6-250ng	6	✓	25.0	25.4	101.5
p1 Cal 7-500ng	7	✓	50.0	51.2	102.4
p1 Cal 8-1000ng	8	✓	100.0	102.5	102.5

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	7-aminoclonazepam

Internal Standard 7-Aminoclonazepam-D4

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

$y = 0.022919 * x + 0.017325$
$R^2 = 0.99575168$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

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	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.5
p1 Cal 4-50ng	4	✓	50.0	51.4	102.7
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	245.4	98.2
p1 Cal 7-500ng	7	✓	500.0	449.3	89.9
p1 Cal 8-1000ng	8	✗	1000.0	765.8	76.6

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor

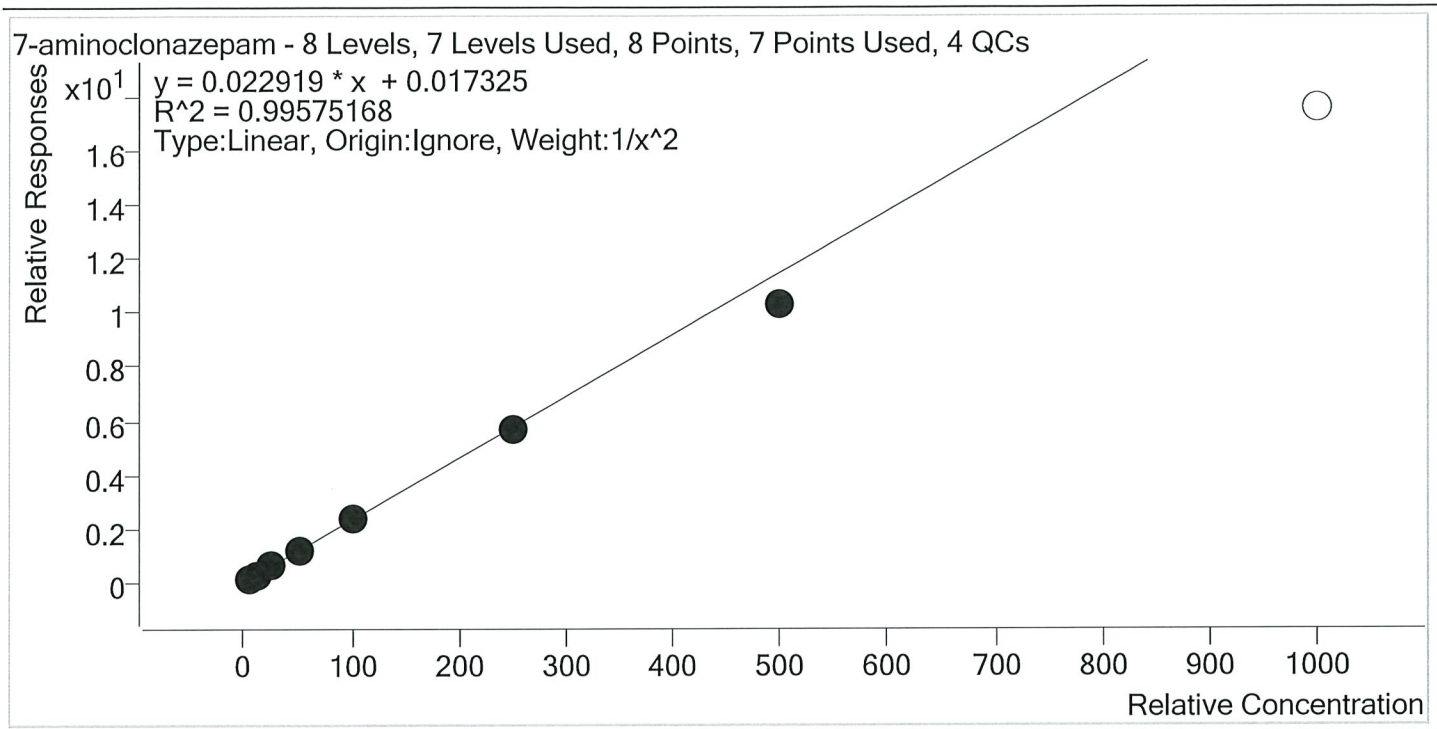**Analyte** a-hydroxyalprazolam   **Internal Standard** a-hydroxyalprazolam-D5
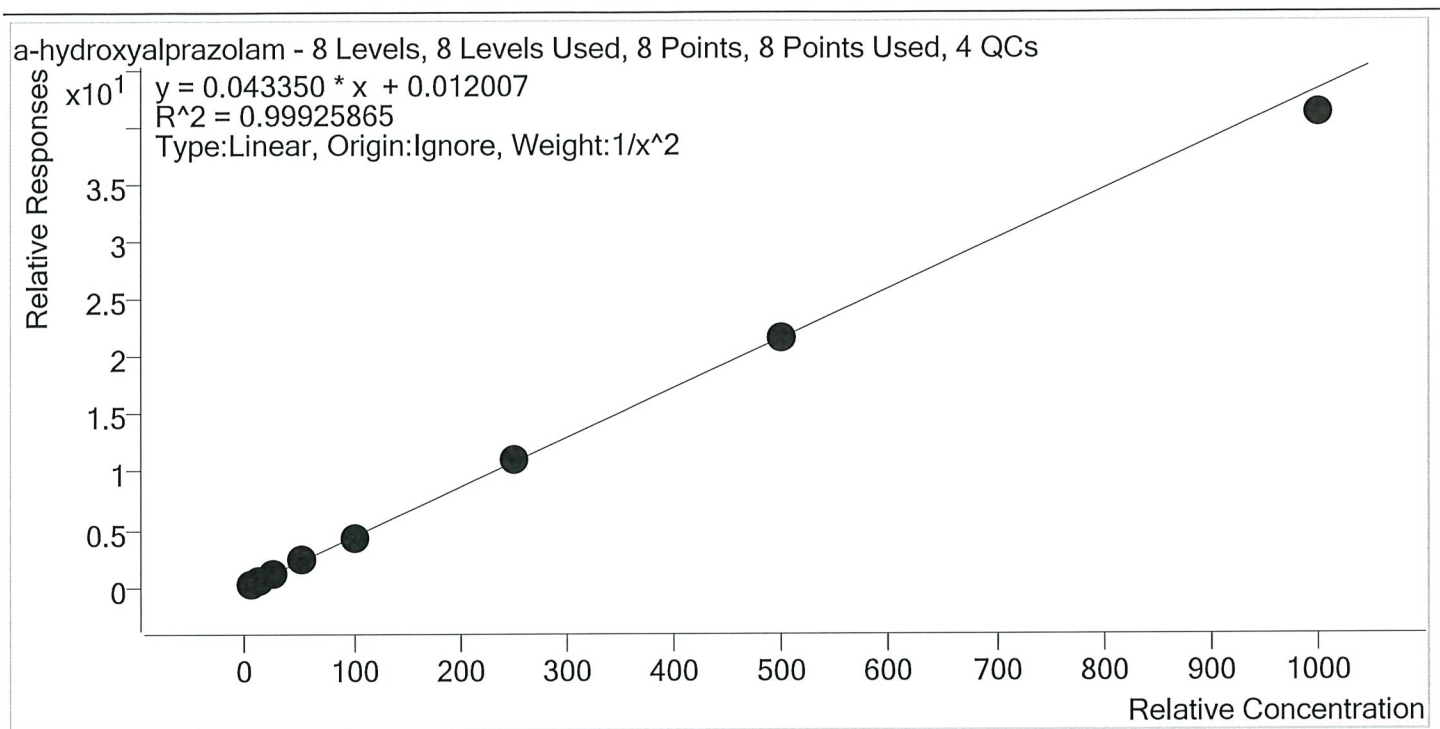
a-hydroxyalprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.043350 * x + 0.012007$
$R^2 = 0.99925865$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	99.0
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	254.2	101.7
p1 Cal 7-500ng	7	✓	500.0	501.1	100.2
p1 Cal 8-1000ng	8	✓	1000.0	952.0	95.2

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	alpha-PVP

Internal Standard alpha-PVP-d8

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

$y = 0.022871 * x - 0.011035$
$R^2 = 0.99955025$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	108.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.2
p1 Cal 4-50ng	4	✓	50.0	49.1	98.2
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	243.8	97.5
p1 Cal 7-500ng	7	✓	500.0	492.0	98.4
p1 Cal 8-1000ng	8	✓	1000.0	1018.3	101.8

AM #28 Multi-Drug Quant. Calibration Curve Report

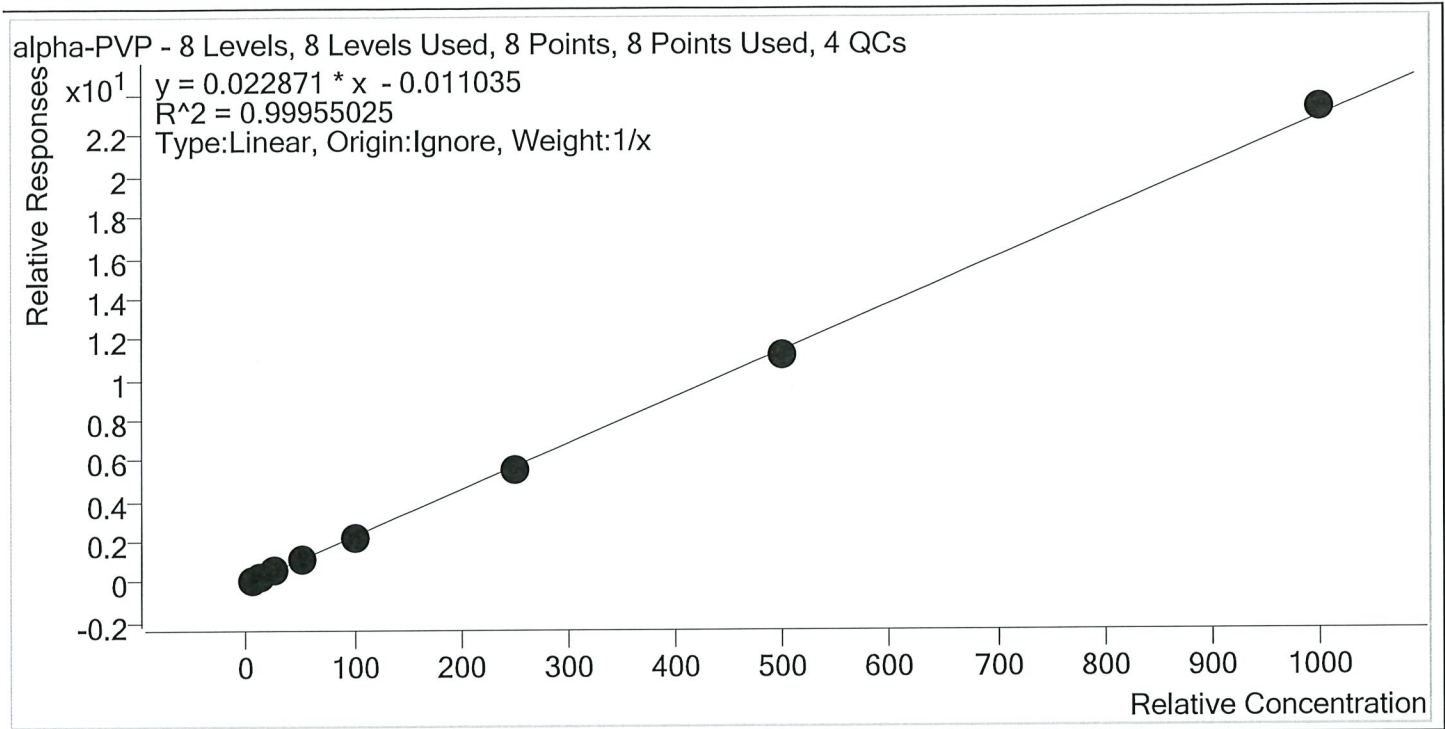|	
Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Alprazolam

Internal Standard Alprazolam-D5

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

$y = 0.039911 * x - 0.017078$
$R^2 = 0.99972288$
Type:Linear, Origin:Ignore, Weight:1/x

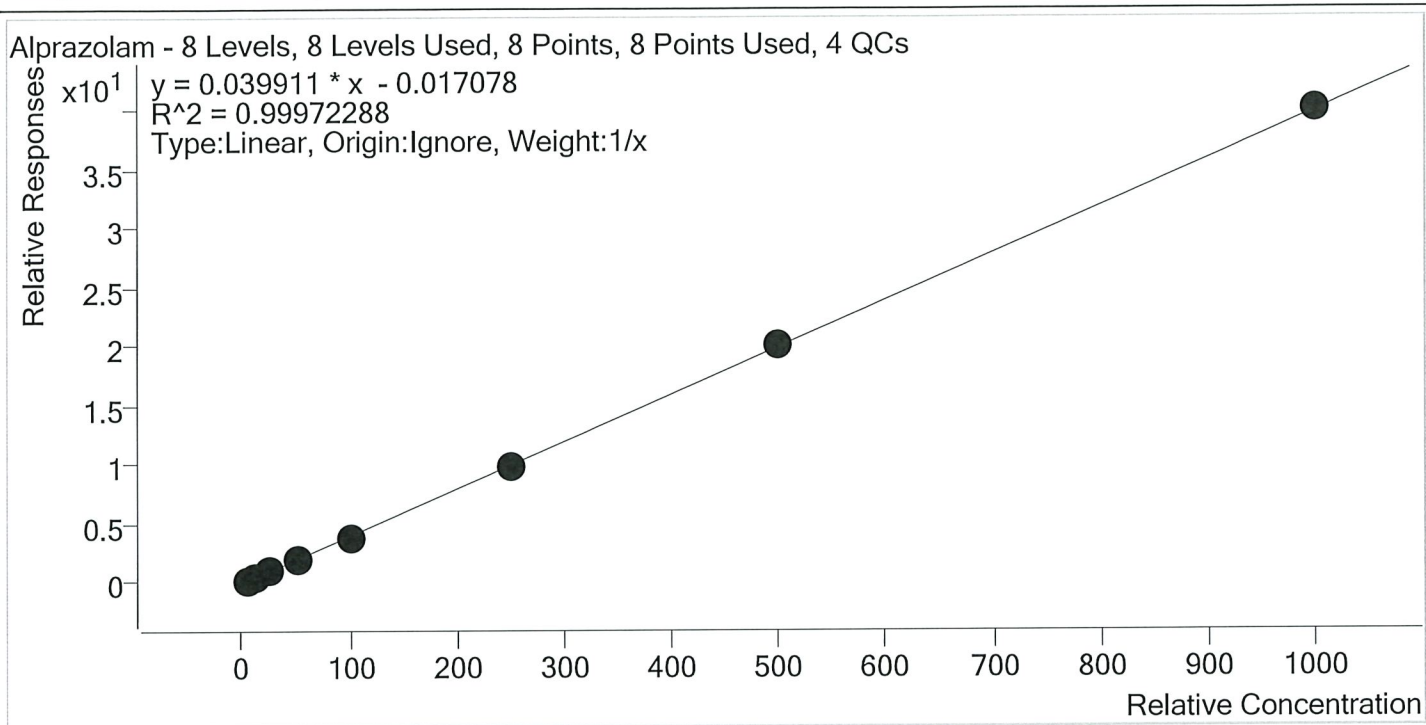| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.5
p1 Cal 2- 10ng	2	✓	10.0	10.3	102.5
p1 Cal 3 -25ng	3	✓	25.0	23.7	94.7
p1 Cal 4-50ng	4	✓	50.0	49.8	99.7
p1 Cal 5-100ng	5	✓	100.0	96.2	96.2
p1 Cal 6-250ng	6	✓	250.0	244.0	97.6
p1 Cal 7-500ng	7	✓	500.0	506.5	101.3
p1 Cal 8-1000ng	8	✓	1000.0	1004.1	100.4

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Amphetamine

Internal Standard   Amphetamine-D11
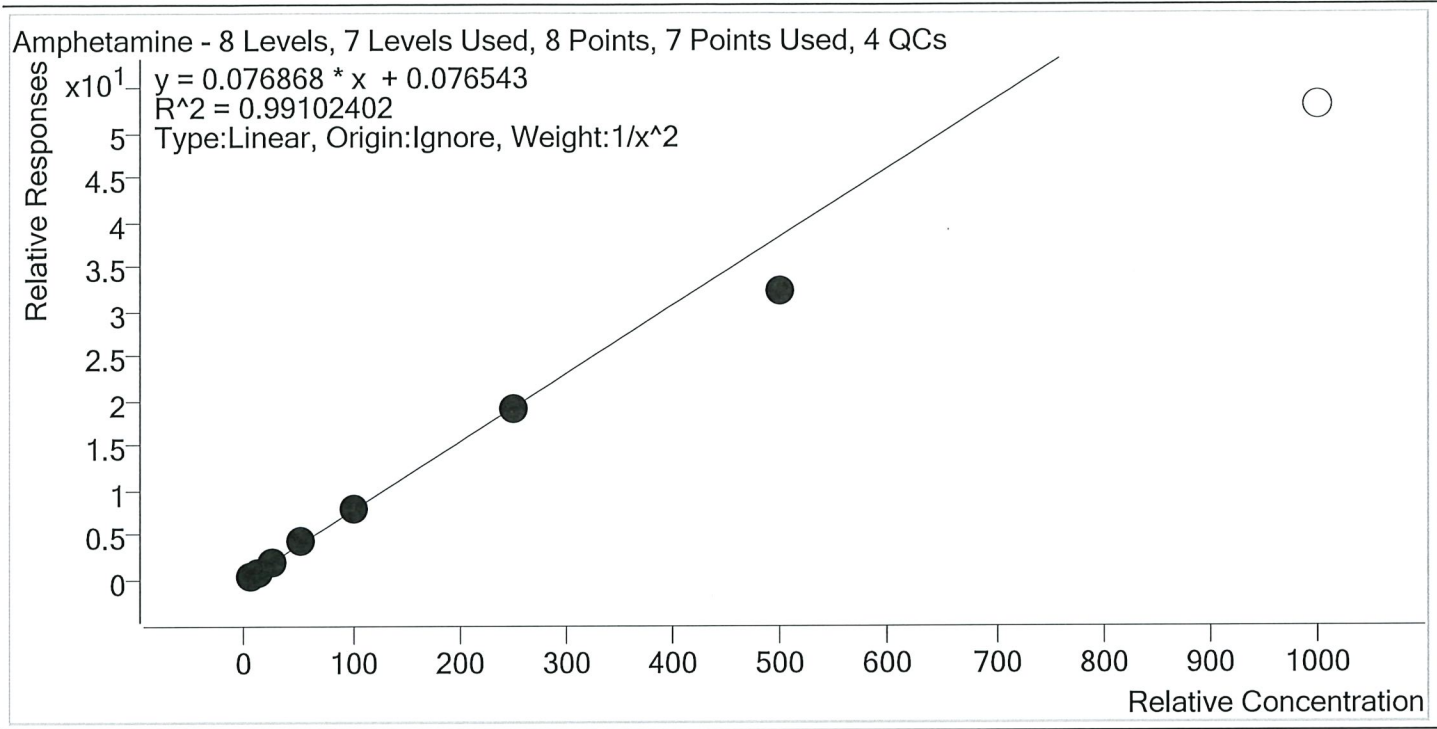
Amphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs

$y = 0.076868 * x + 0.076543$
$R^2 = 0.99102402$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

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	10.2	102.2
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.5
p1 Cal 4-50ng	4	✓	50.0	54.3	108.5
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	420.2	84.0
p1 Cal 8-1000ng	8	✗	1000.0	690.1	69.0

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Benzoylecgonine

Internal Standard   Benzoylecgonine-d8

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

$y = 0.025068 * x + 3.343036E\text{-}004$
$R^2 = 0.99957221$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	102.1
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.9
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	249.8	99.9
p1 Cal 7-500ng	7	✓	500.0	496.3	99.3
p1 Cal 8-1000ng	8	✓	1000.0	1030.8	103.1

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

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Analyst Name ISP\datastor

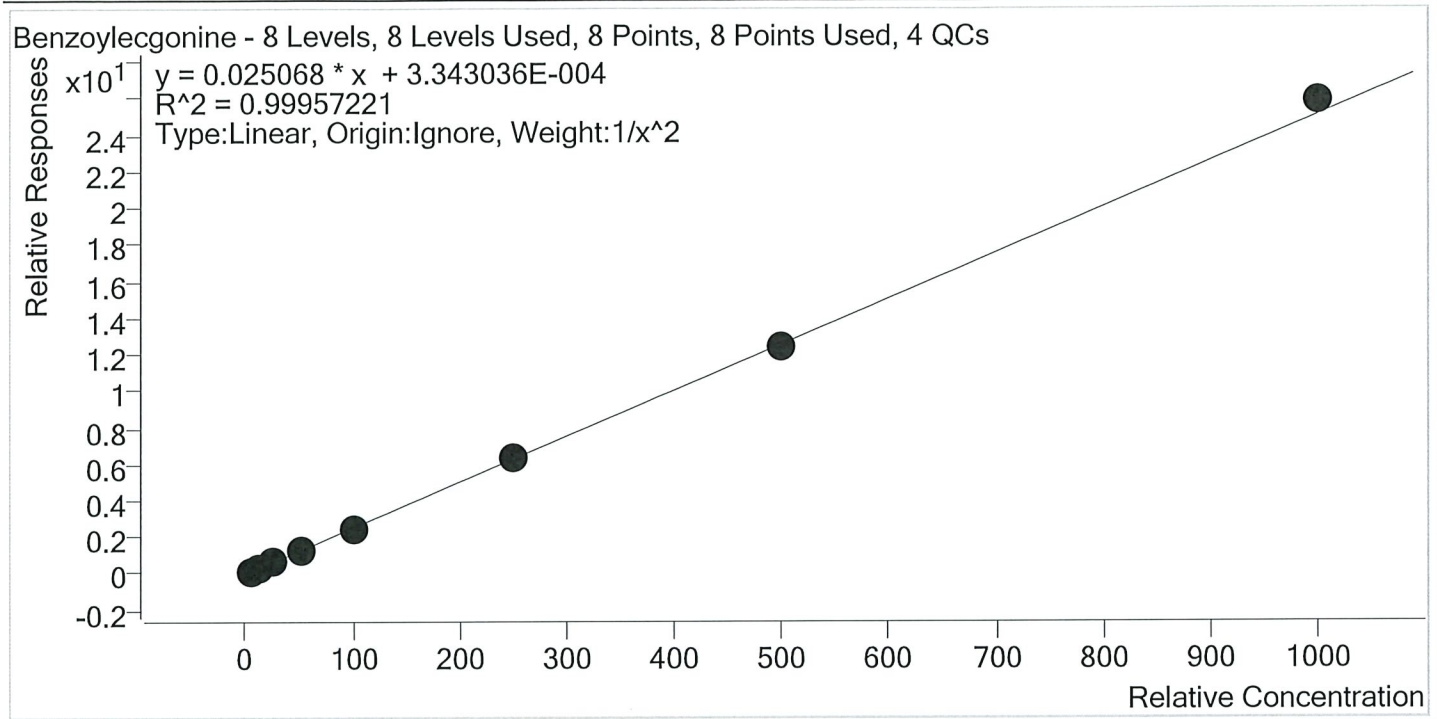**Analyte** Buprenorphine   **Internal Standard** Buprenorphine-D4

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

$y = 0.028903 * x - 0.004103$
$R^2 = 0.99689369$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✗	0.5	0.7	145.0
p1 Cal 2- 10ng	2	✓	1.0	1.0	101.9
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.8
p1 Cal 4-50ng	4	✓	5.0	4.9	98.6
p1 Cal 5-100ng	5	✓	10.0	9.2	92.3
p1 Cal 6-250ng	6	✓	25.0	24.8	99.1
p1 Cal 7-500ng	7	✓	50.0	51.4	102.9
p1 Cal 8-1000ng	8	✓	100.0	107.6	107.6

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Bupropion

Internal Standard Bupropion-D9

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

$y = 0.028195 * x - 8.690997E\text{-}004$

$R^2 = 0.99997005$

Type:Linear, Origin:Ignore, Weight:1/x

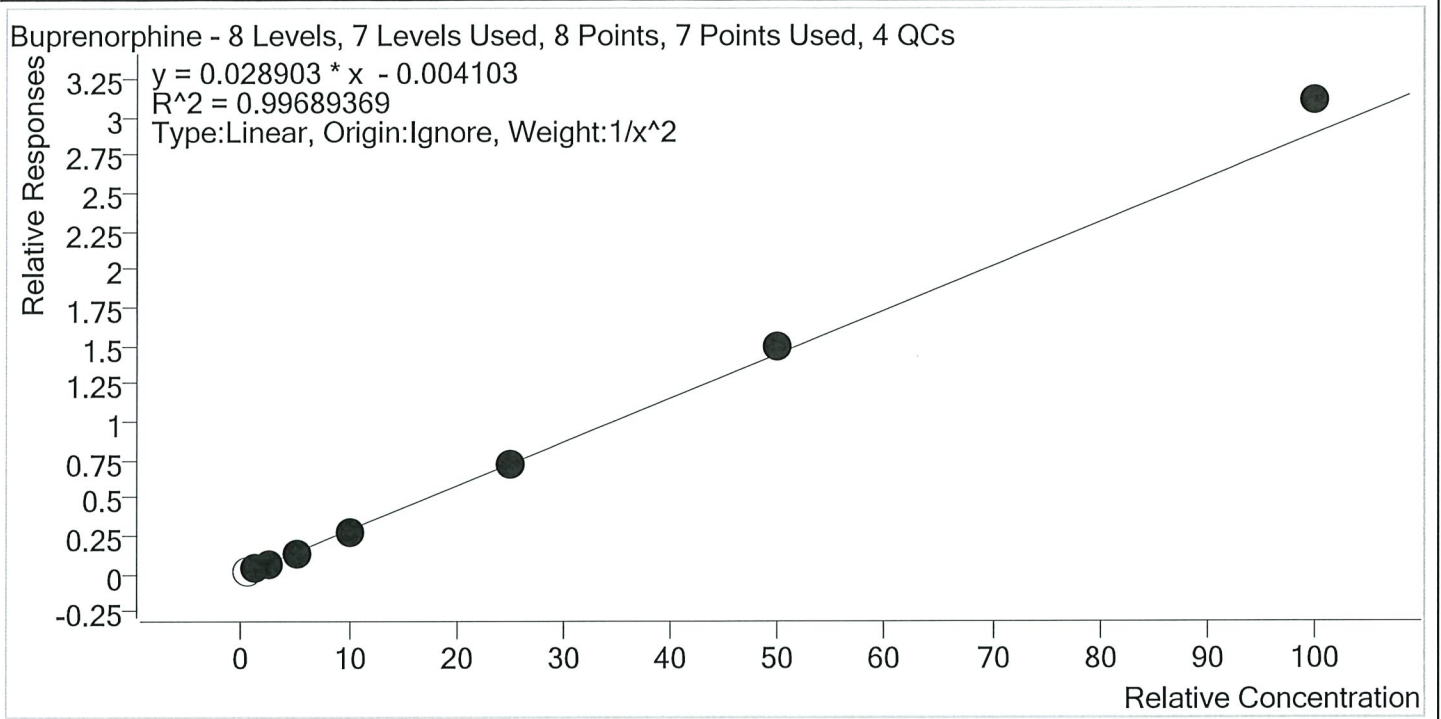| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.9
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	502.0	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1000.2	100.0

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor

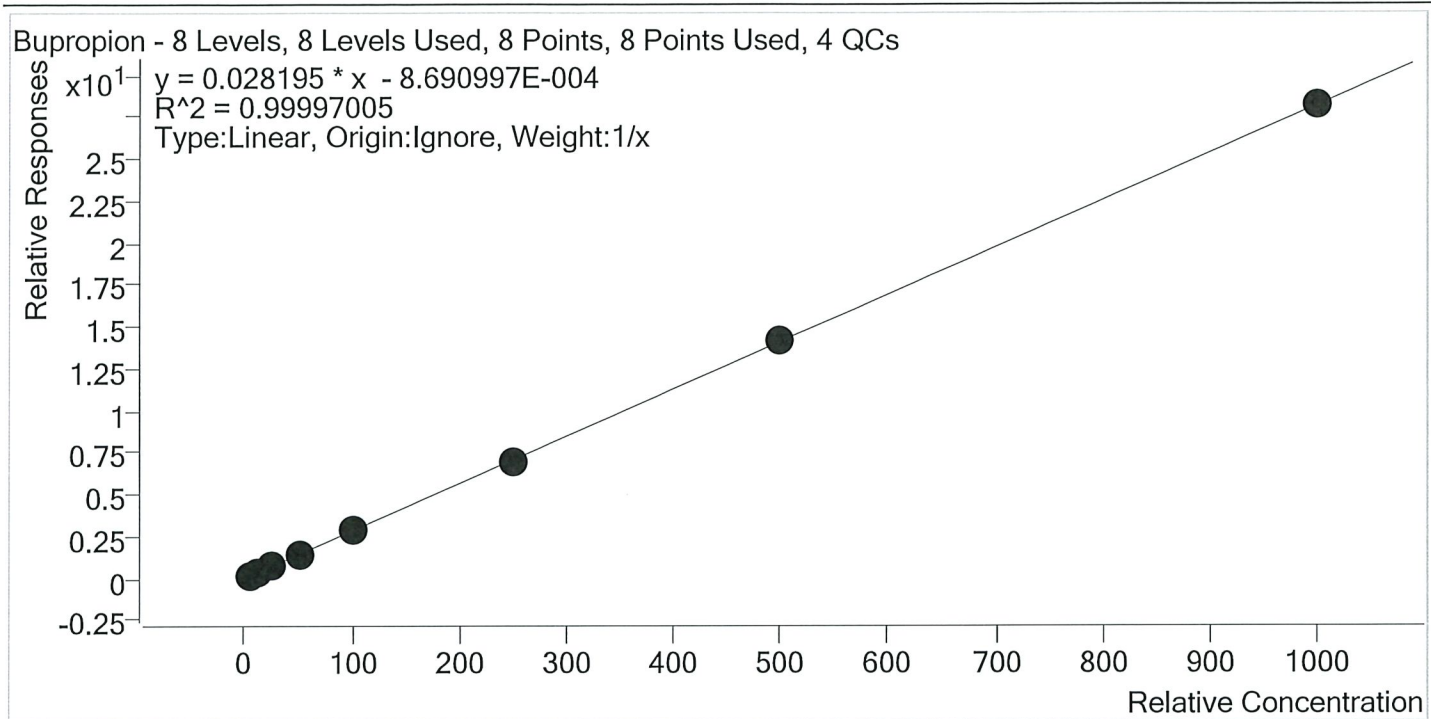**Analyte** Carisoprodol   **Internal Standard** Carisoprodol-D7

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

$y = 0.019743 * x + 0.005629$
$R^2 = 0.99938115$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	9.8	97.6
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.9
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	250.1	100.0
p1 Cal 7-500ng	7	✓	500.0	504.7	100.9
p1 Cal 8-1000ng	8	✓	1000.0	968.9	96.9

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor
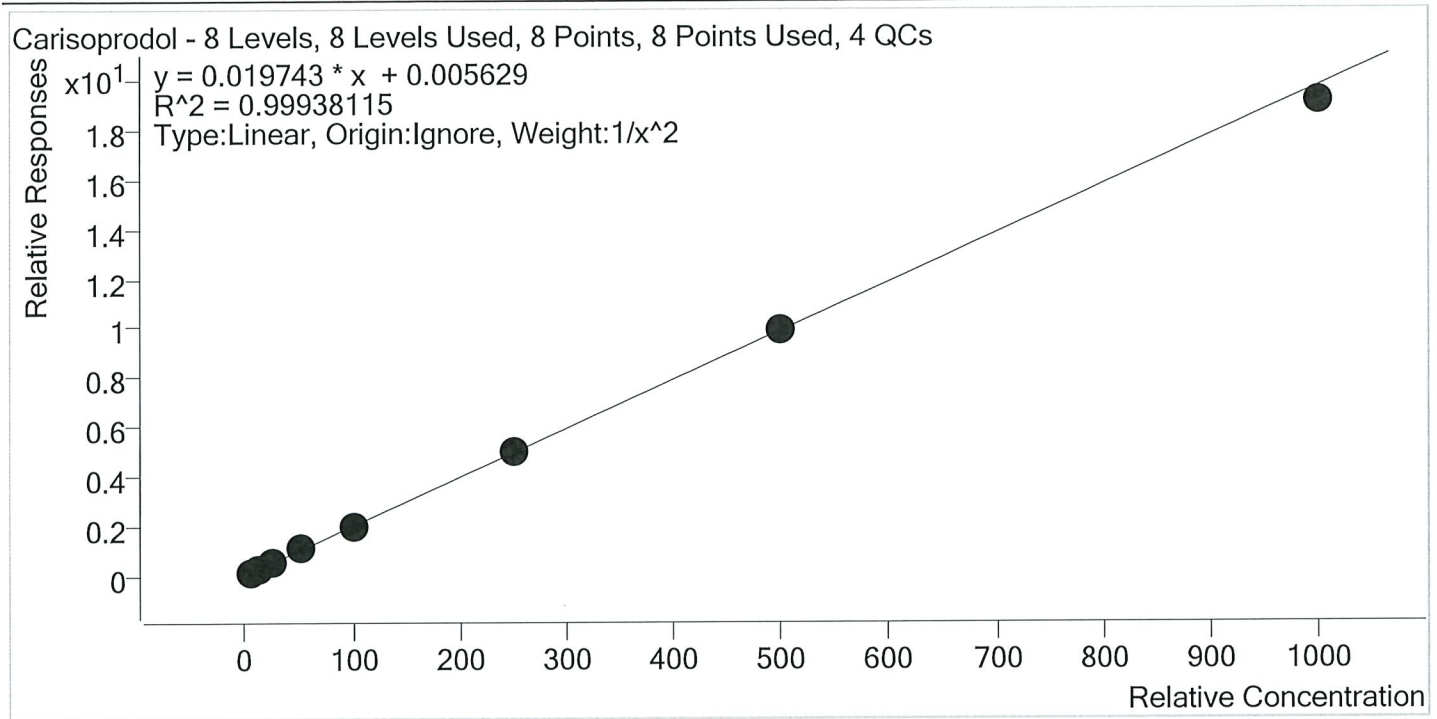
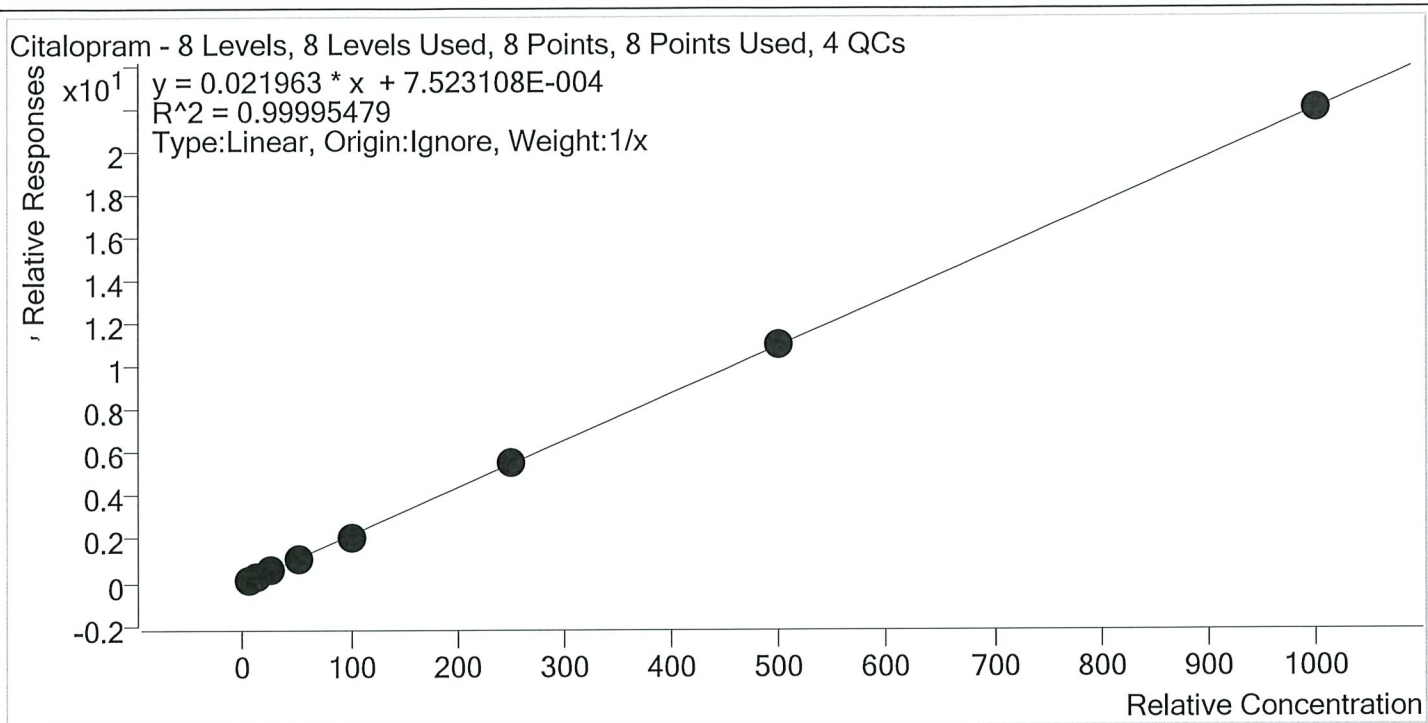**Analyte** Citalopram   **Internal Standard** Citalopram-D6

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

$y = 0.021963 * x + 7.523108E\text{-}004$
$R^2 = 0.99995479$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.3
p1 Cal 2- 10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	97.4	97.4
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	500.8	100.2
p1 Cal 8-1000ng	8	✓	1000.0	1000.1	100.0

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Clonazepam

Internal Standard Clonazepam-D4
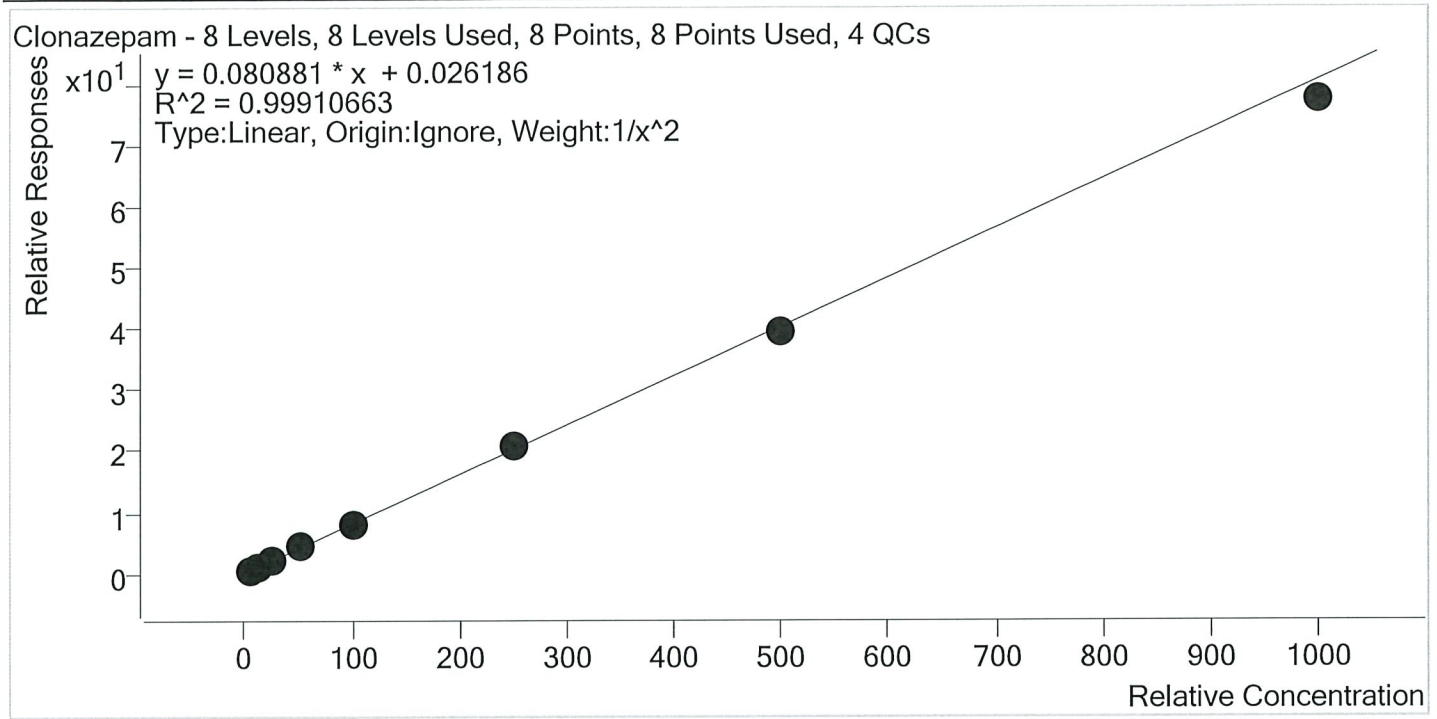
Clonazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.080881 * x + 0.026186$
$R^2 = 0.99910663$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	257.0	102.8
p1 Cal 7-500ng	7	✓	500.0	488.9	97.8
p1 Cal 8-1000ng	8	✓	1000.0	959.6	96.0

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor

Analyte	Cocaine	**Internal Standard**	Cocaine-d3
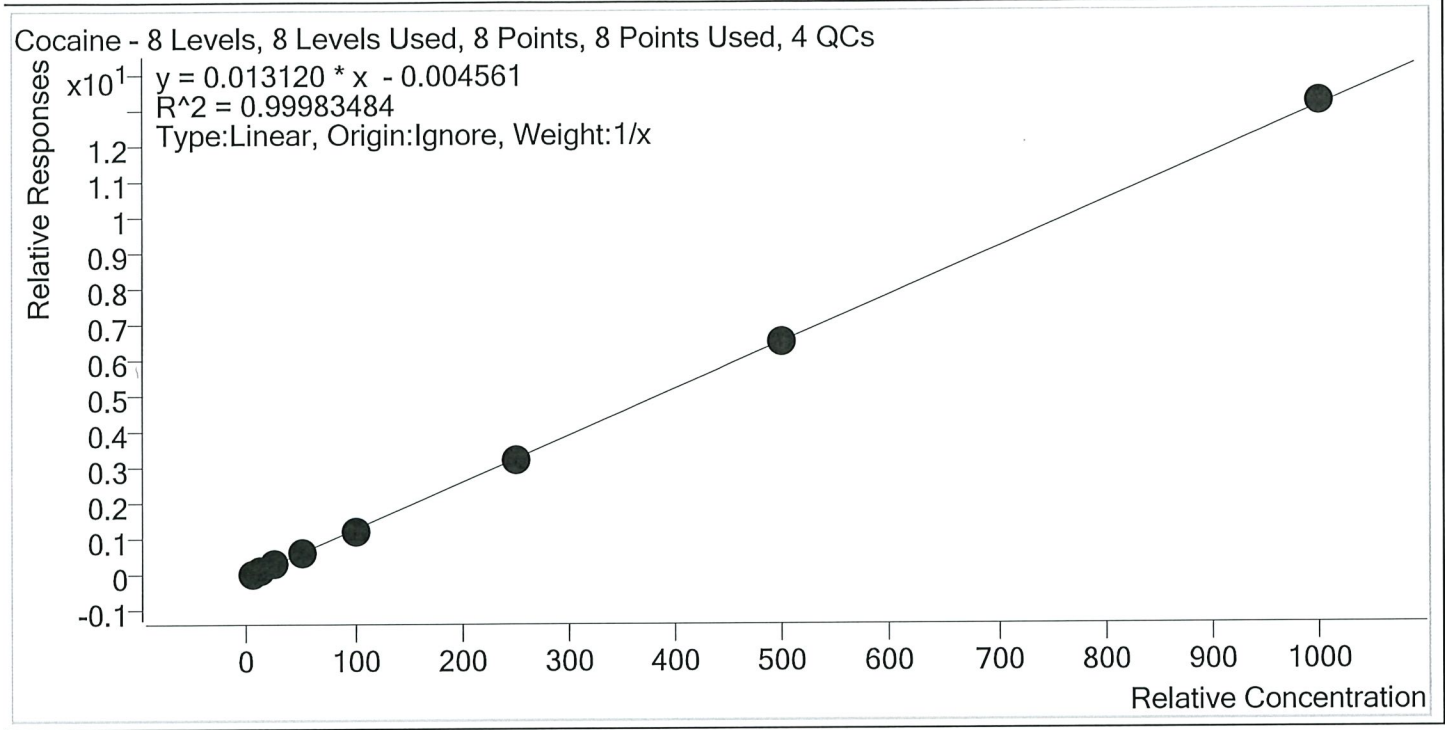
Cocaine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.013120 * x - 0.004561$
$R^2 = 0.99983484$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.4
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	49.5	99.1
p1 Cal 5-100ng	5	✓	100.0	95.7	95.7
p1 Cal 6-250ng	6	✓	250.0	249.0	99.6
p1 Cal 7-500ng	7	✓	500.0	498.0	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1007.8	100.8

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AM #28 Multi-Drug Quant. Calibration Curve Report

Analyte   Codeine   **Internal Standard**   Codeine-D6

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

$y = 0.021311 * x + 0.006089$
$R^2 = 0.99930394$
Type:Linear, Origin:Ignore, Weight:1/x^2

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	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	51.5	103.1
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	257.0	102.8
p1 Cal 7-500ng	7	✓	500.0	484.7	96.9
p1 Cal 8-1000ng	8	✓	1000.0	969.7	97.0

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor

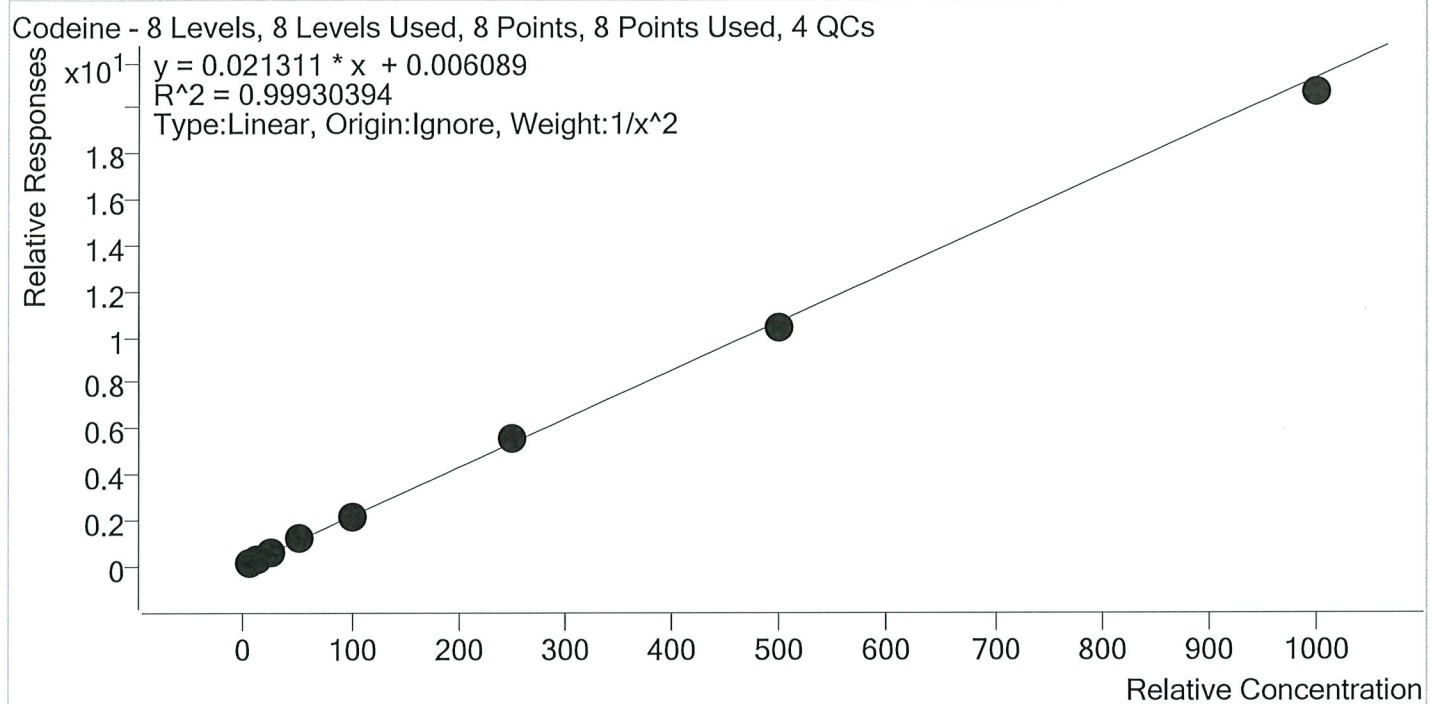**Analyte**   Cyclobenzaprine   **Internal Standard**   Cyclobenzaprine-D3

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

$y = 0.025553 * x + 0.006650$

$R^2 = 0.99939092$

Type:Linear, Origin:Ignore, Weight:1/x^2

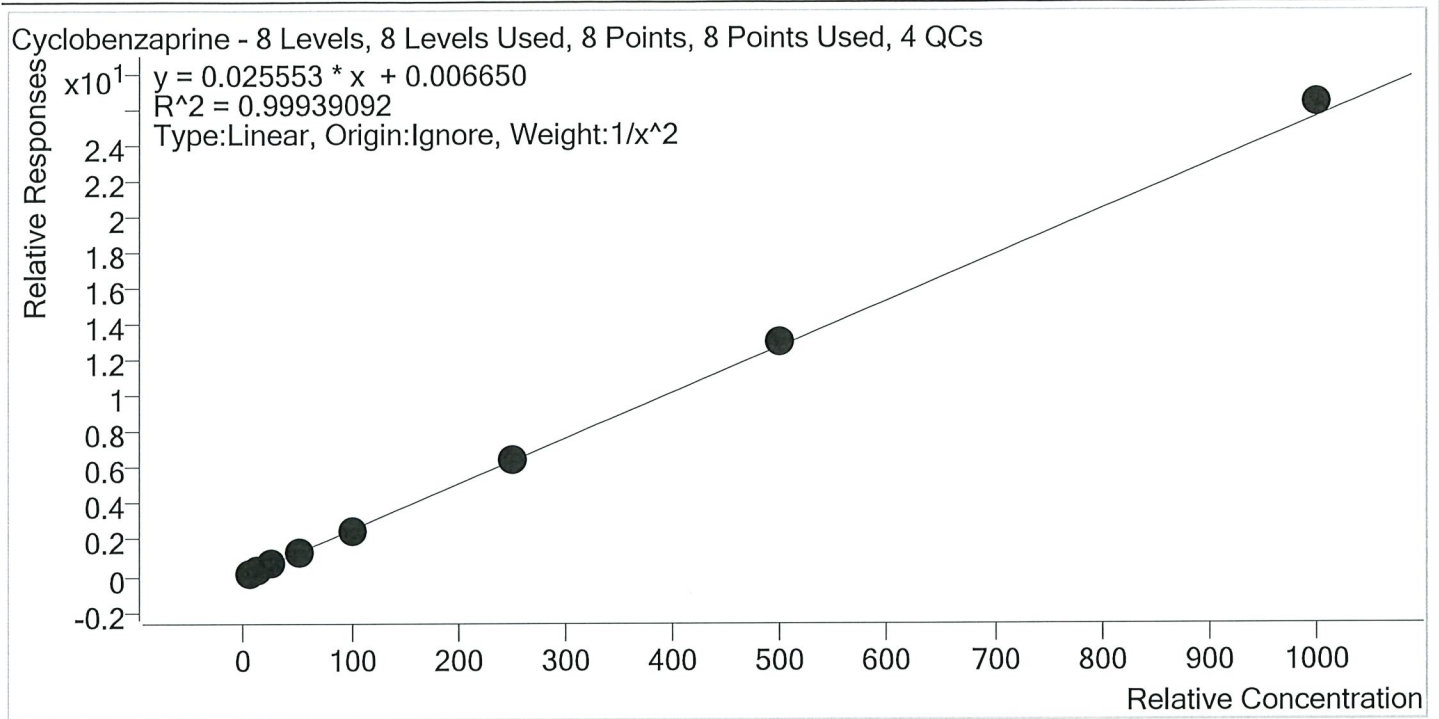| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.1
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	49.6	99.1
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	250.8	100.3
p1 Cal 7-500ng	7	✓	500.0	508.6	101.7
p1 Cal 8-1000ng	8	✓	1000.0	1031.4	103.1

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor
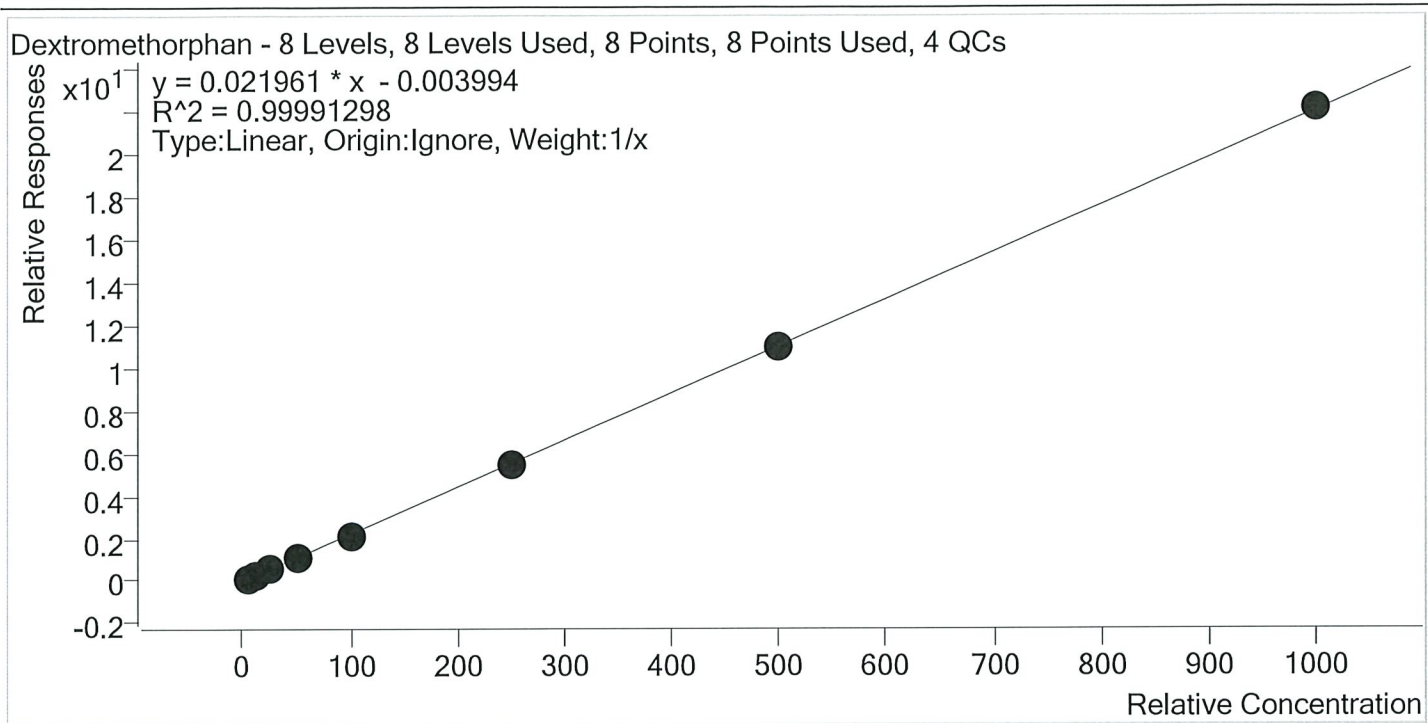
Analyte Dextromethorphan   **Internal Standard** Dextromethorphan-D3

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

$y = 0.021961 * x - 0.003994$
$R^2 = 0.99991298$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.5
p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
p1 Cal 5-100ng	5	✓	100.0	98.2	98.2
p1 Cal 6-250ng	6	✓	250.0	246.0	98.4
p1 Cal 7-500ng	7	✓	500.0	499.7	99.9
p1 Cal 8-1000ng	8	✓	1000.0	1005.7	100.6

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
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Analyst Name	ISP\datastor
Analyte	Dextrorphan

Internal Standard   Dextrorphan-D3

Dextrorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
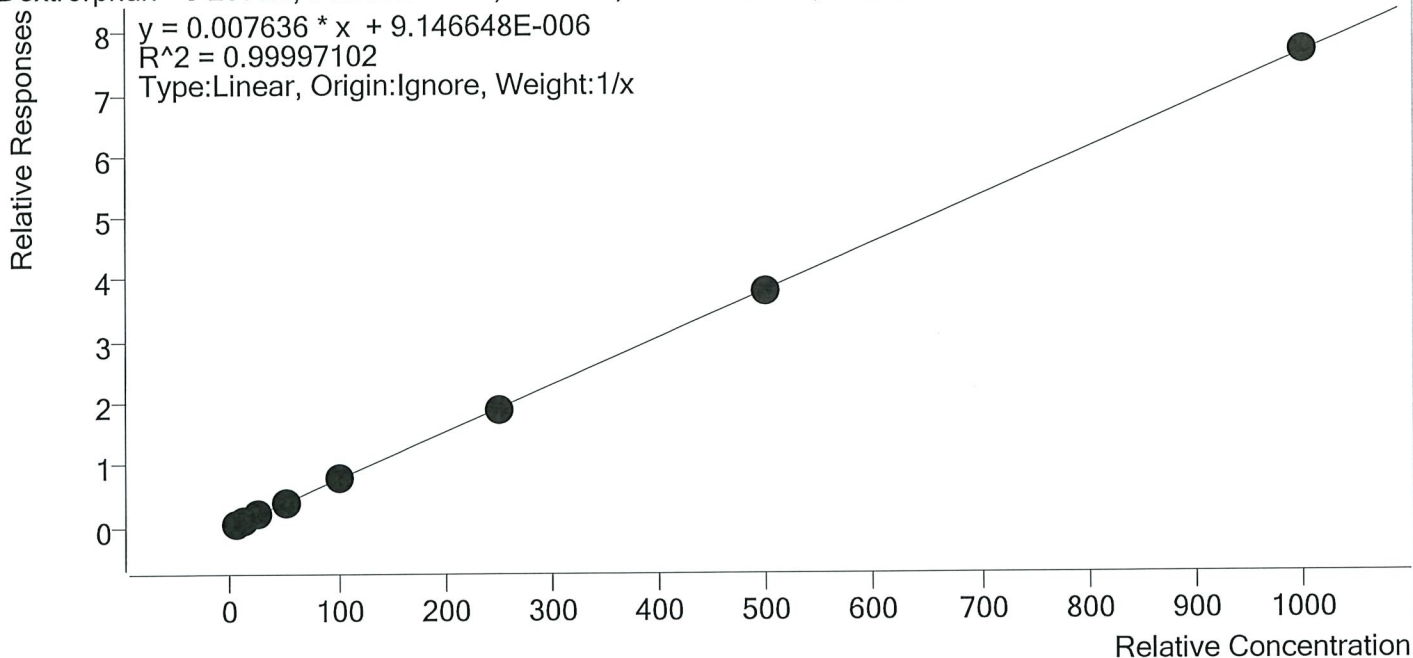
$y = 0.007636 * x + 9.146648E\text{-}006$
$R^2 = 0.99997102$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.2
p1 Cal 4-50ng	4	✓	50.0	50.4	100.8
p1 Cal 5-100ng	5	✓	100.0	99.0	99.0
p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng	7	✓	500.0	497.8	99.6
p1 Cal 8-1000ng	8	✓	1000.0	1003.9	100.4

# AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

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Analyst Name   ISP\datastor

Analyte   Diazepam   **Internal Standard**   Diazepam-D5
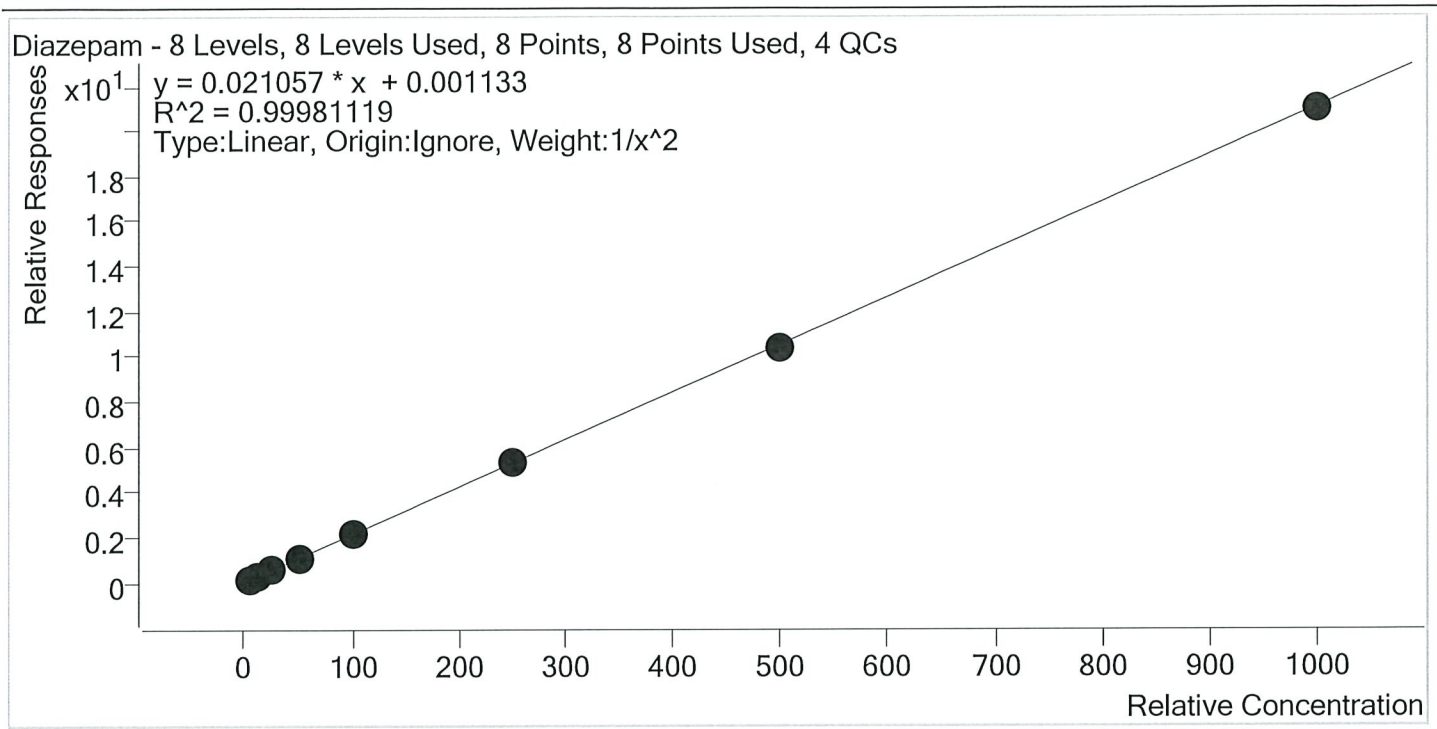
Diazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.021057 * x + 0.001133$

$R^2 = 0.99981119$

Type:Linear, Origin:Ignore, Weight:1/x^2

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	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.5
p1 Cal 4-50ng	4	✓	50.0	50.5	100.9
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	255.2	102.1
p1 Cal 7-500ng	7	✓	500.0	492.0	98.4
p1 Cal 8-1000ng	8	✓	1000.0	995.3	99.5

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

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Analyst Name   ISP\datastor

Analyte   Dihydrocodeine   **Internal Standard**   Dihydrocodeine-D6

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

$y = 0.016727 * x + 0.010551$
$R^2 = 0.99340559$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.5
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.6
p1 Cal 4-50ng	4	✓	50.0	53.0	106.0
p1 Cal 5-100ng	5	✓	100.0	104.9	104.9
p1 Cal 6-250ng	6	✓	250.0	259.9	103.9
p1 Cal 7-500ng	7	✓	500.0	489.4	97.9
p1 Cal 8-1000ng	8	✓	1000.0	842.8	84.3

*Compound not evaluated - 3/27/2020 - TS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor

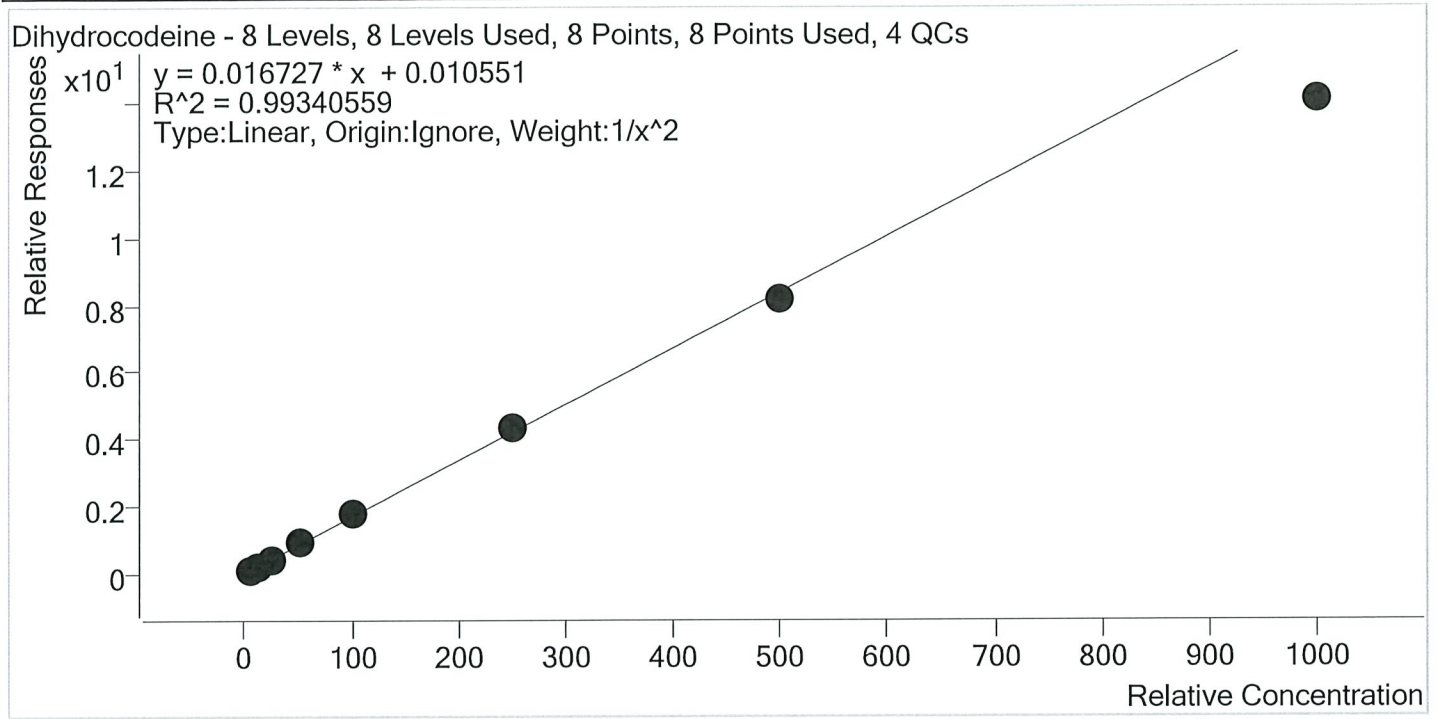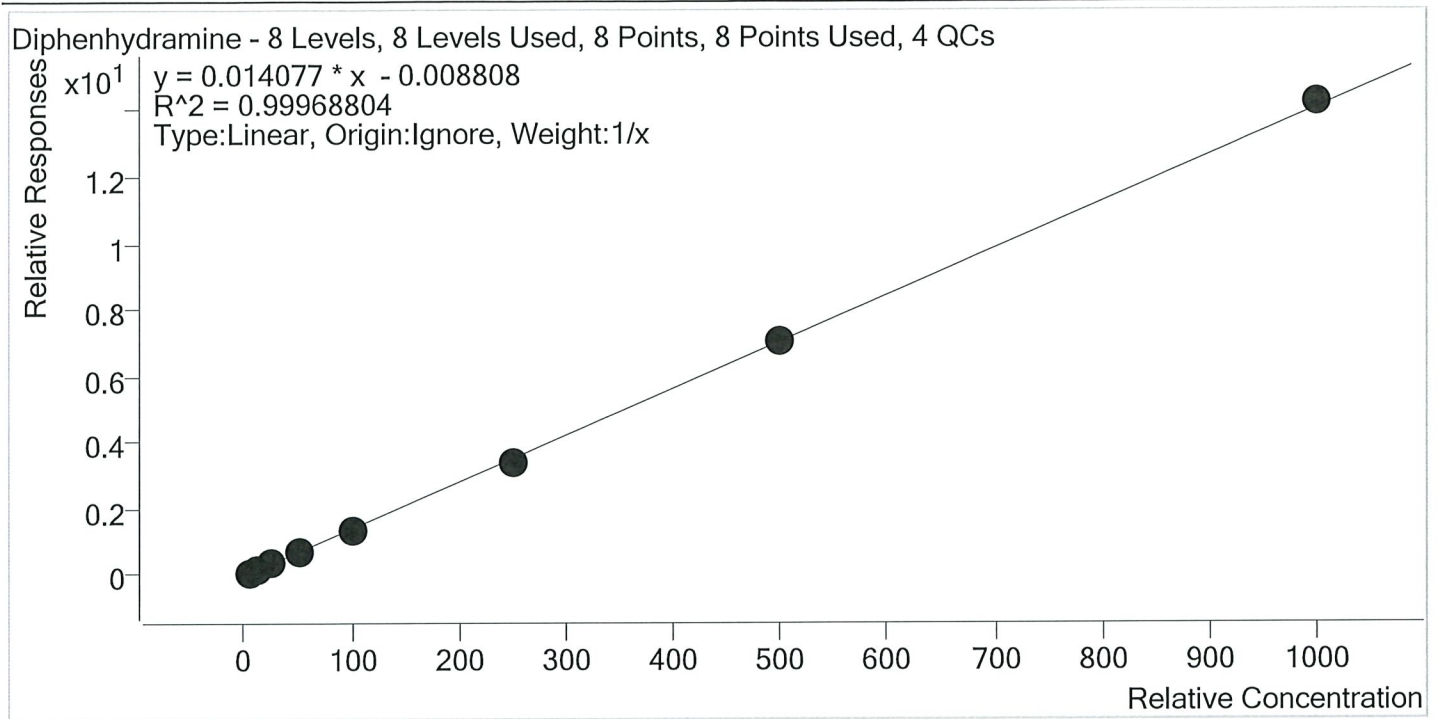**Analyte**   Diphenhydramine   **Internal Standard**   Diphenhydramine-D3

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

$y = 0.014077 * x - 0.008808$
$R^2 = 0.99968804$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.1
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.5
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.2
p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
p1 Cal 5-100ng	5	✓	100.0	95.5	95.5
p1 Cal 6-250ng	6	✓	250.0	244.7	97.9
p1 Cal 7-500ng	7	✓	500.0	498.9	99.8
p1 Cal 8-1000ng	8	✓	1000.0	1012.1	101.2

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Doxylamine

Internal Standard   Doxylamine-D5
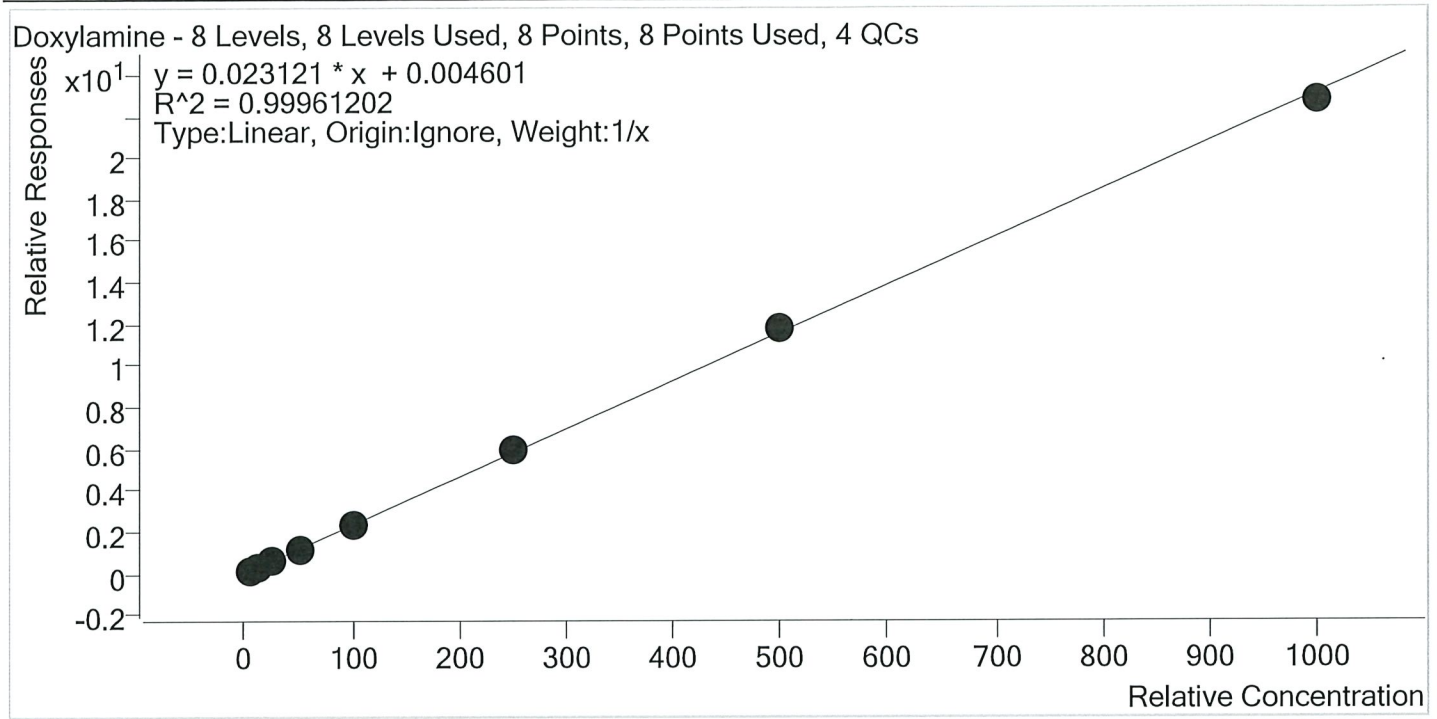
Doxylamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.023121 * x + 0.004601$
$R^2 = 0.99961202$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.6
p1 Cal 4-50ng	4	✓	50.0	51.0	102.0
p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng	6	✓	250.0	254.0	101.6
p1 Cal 7-500ng	7	✓	500.0	512.7	102.5
p1 Cal 8-1000ng	8	✓	1000.0	984.1	98.4

AM #28 Multi-Drug Quant. Calibration Curve Report

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

$y = 0.018270 * x + 0.001391$
$R^2 = 0.99966493$
Type:Linear, Origin:Ignore, Weight:$1/x^2$
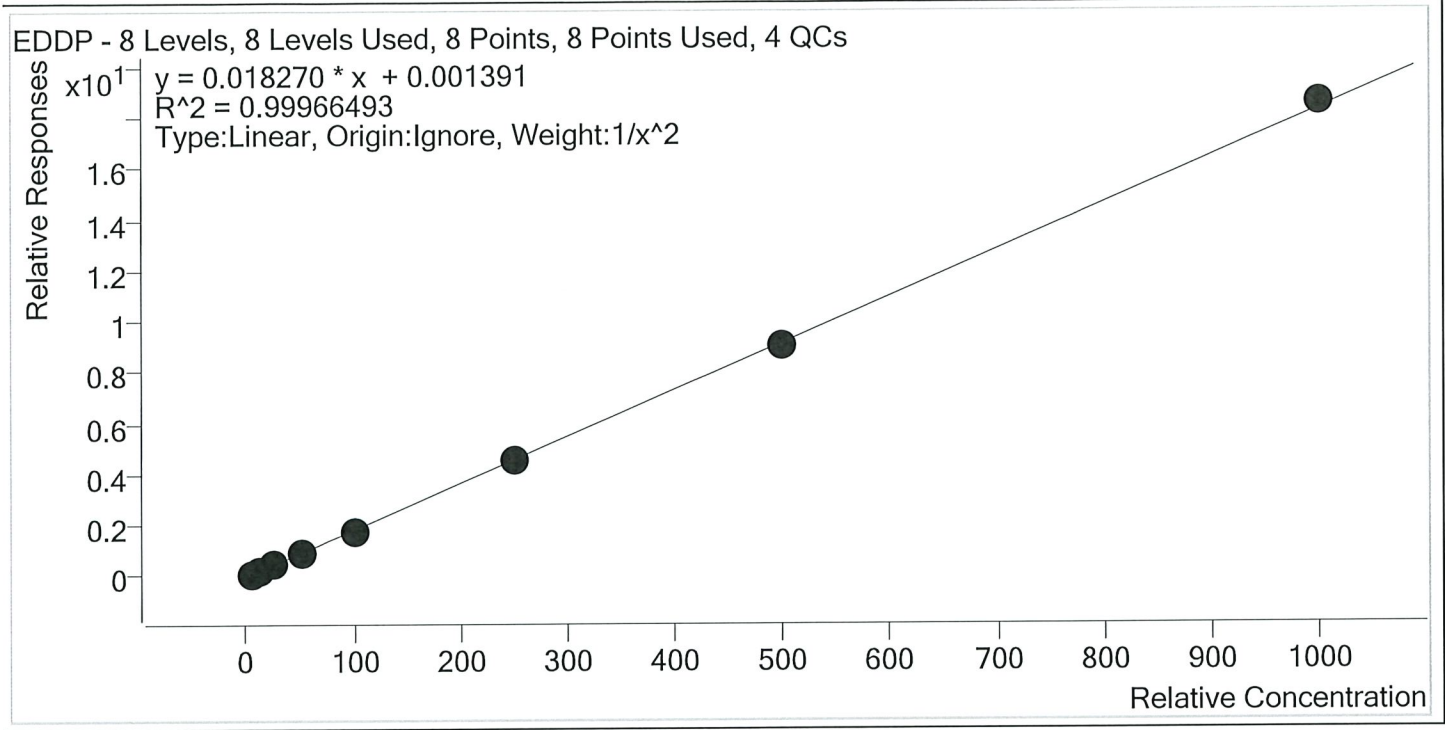
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.0
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.7
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	249.1	99.7
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1014.0	101.4

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Fentanyl

Internal Standard   Fentanyl-D5

Fentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
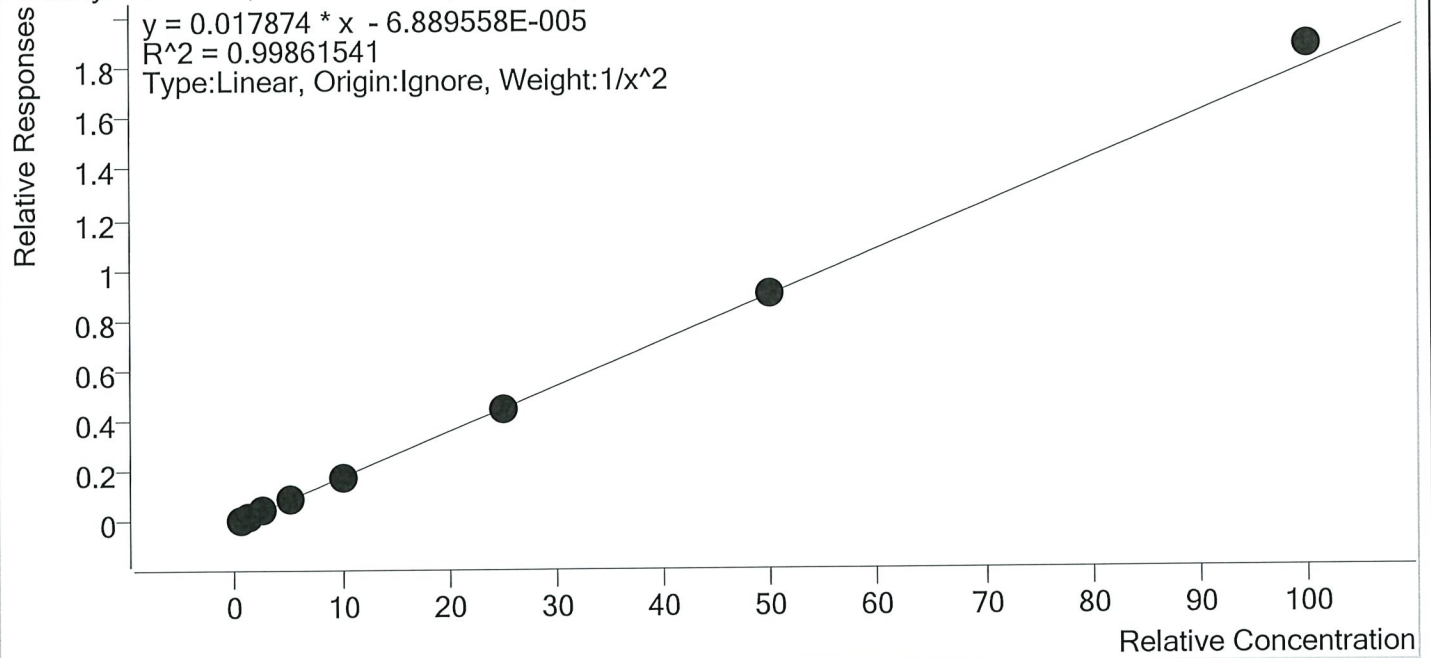
$y = 0.017874 * x - 6.889558E\text{-}005$
$R^2 = 0.99861541$
Type:Linear, Origin:Ignore, Weight:1/x^2

Relative Responses vs Relative Concentration

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.3
p1 Cal 2- 10ng	2	✓	1.0	1.0	98.8
p1 Cal 3 -25ng	3	✓	2.5	2.4	95.9
p1 Cal 4-50ng	4	✓	5.0	5.2	103.1
p1 Cal 5-100ng	5	✓	10.0	9.5	95.5
p1 Cal 6-250ng	6	✓	25.0	24.9	99.7
p1 Cal 7-500ng	7	✓	50.0	50.6	101.2
p1 Cal 8-1000ng	8	✓	100.0	104.6	104.6

Generated at 2:48 PM on 3/27/2020

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Fluoxetine

Internal Standard   Fluoxetine-D6
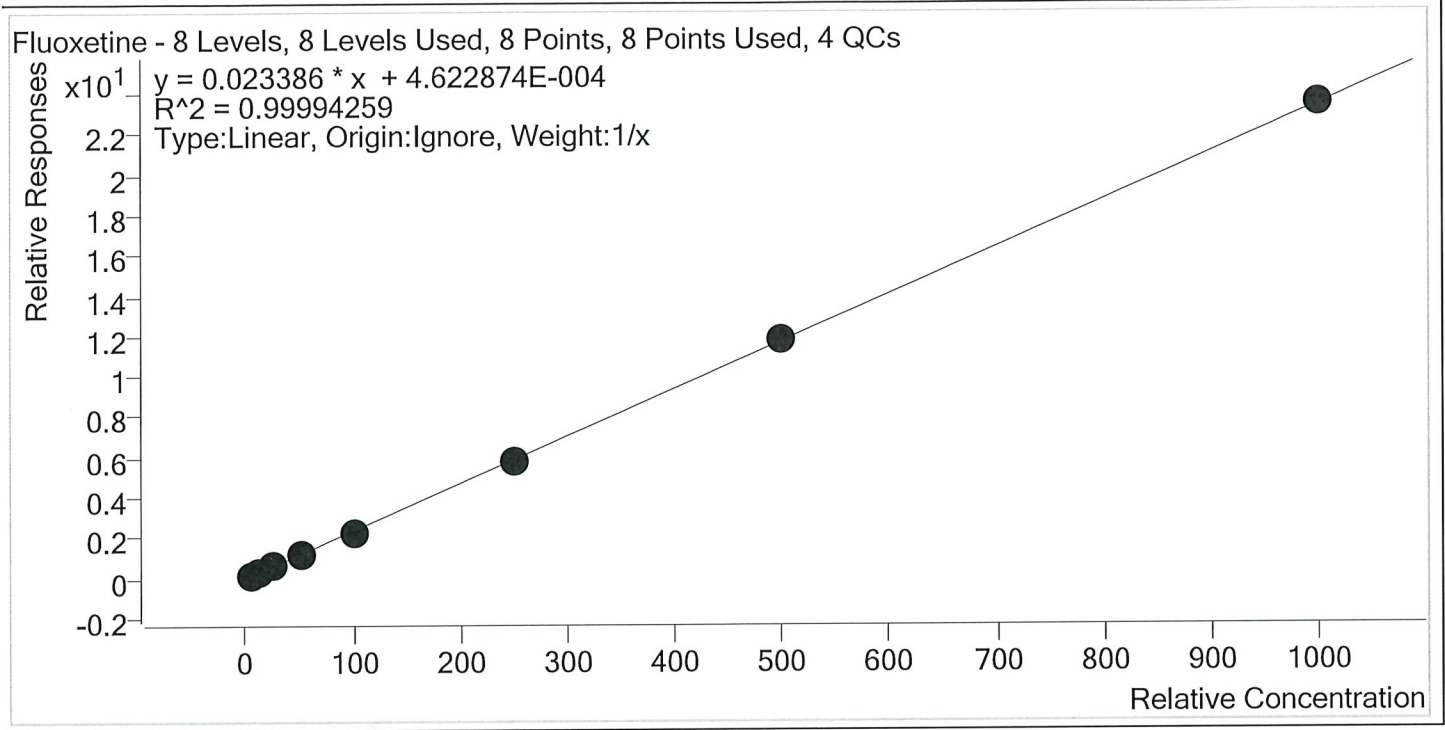
Fluoxetine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.023386 * x + 4.622874E\text{-}004$
$R^2 = 0.99994259$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2- 10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	49.2	98.3
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	501.9	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1002.8	100.3

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Hydrocodone

Internal Standard   Hydrocodone-D6
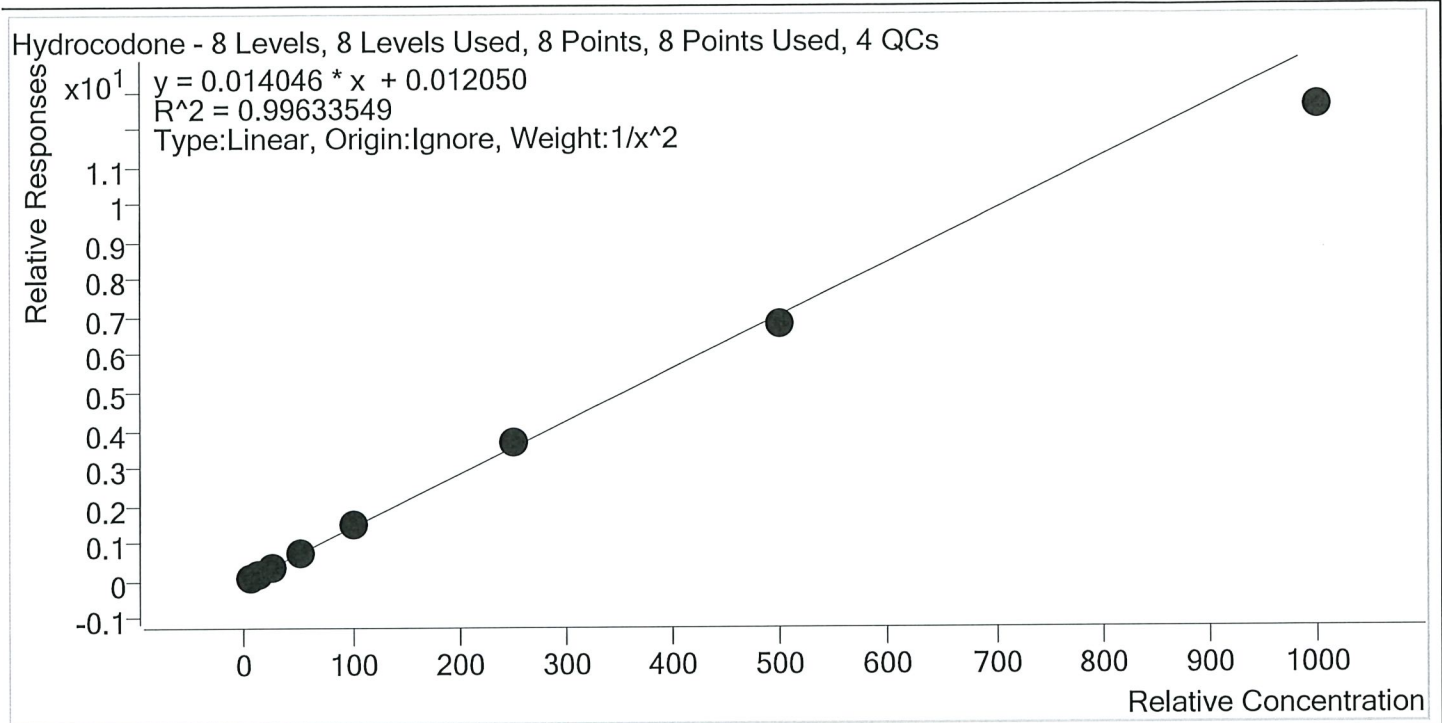
Hydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.014046 * x + 0.012050$
$R^2 = 0.99633549$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.2
p1 Cal 4-50ng	4	✓	50.0	51.8	103.5
p1 Cal 5-100ng	5	✓	100.0	106.2	106.2
p1 Cal 6-250ng	6	✓	250.0	258.0	103.2
p1 Cal 7-500ng	7	✓	500.0	481.8	96.4
p1 Cal 8-1000ng	8	✓	1000.0	893.7	89.4

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Hydromorphone

Internal Standard   Hydromorphone-D6
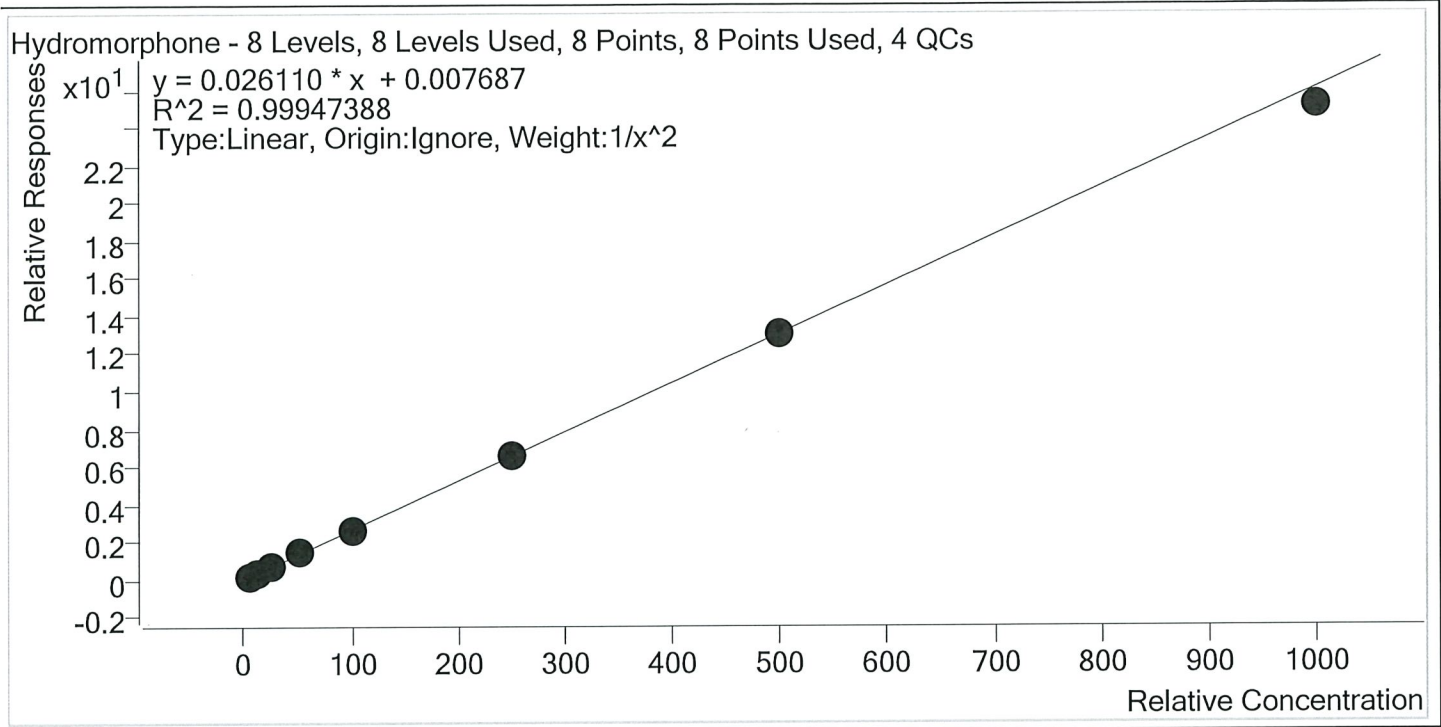
Hydromorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.026110 * x + 0.007687$
$R^2 = 0.99947388$
Type:Linear, Origin:Ignore, Weight:1/x^2

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	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.2
p1 Cal 4-50ng	4	✓	50.0	51.3	102.5
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	252.1	100.8
p1 Cal 7-500ng	7	✓	500.0	502.0	100.4
p1 Cal 8-1000ng	8	✓	1000.0	964.6	96.5

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Ketamine

Internal Standard   Ketamine-D4
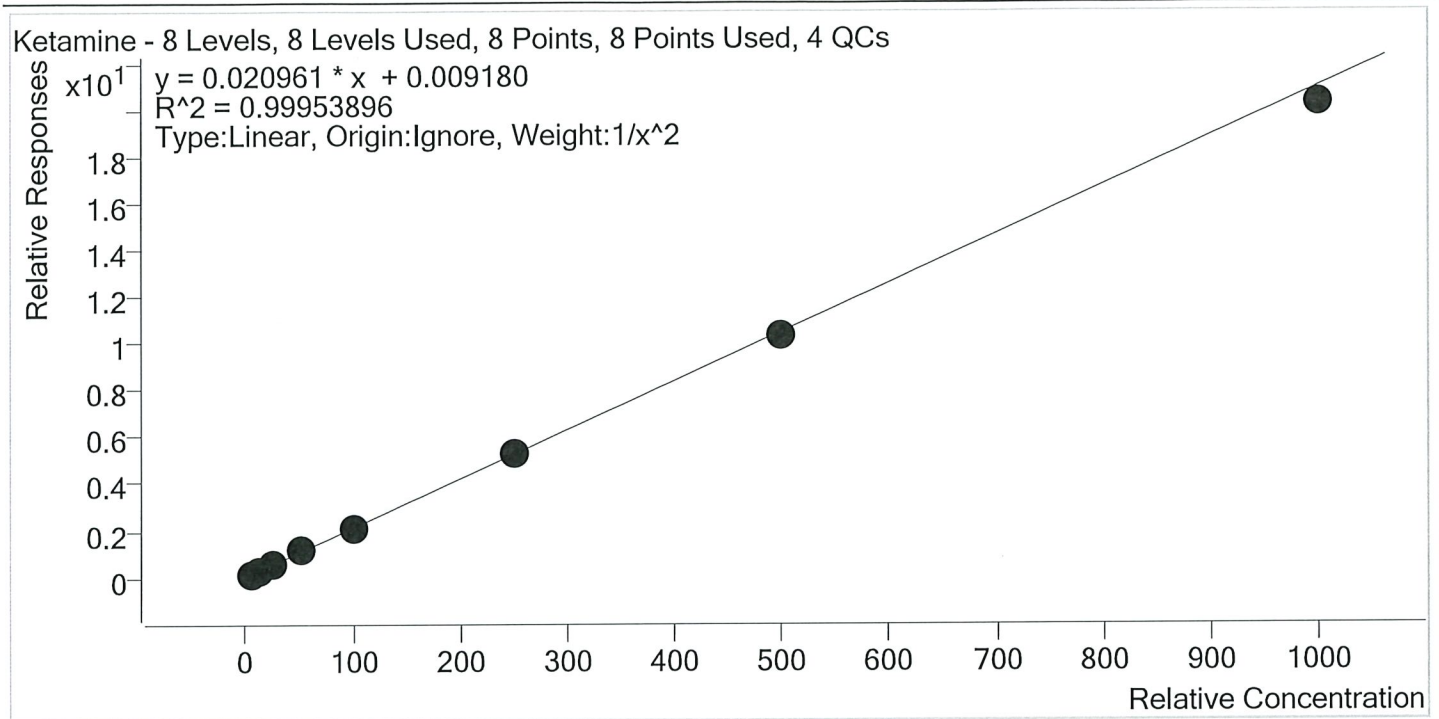
Ketamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.020961 * x + 0.009180$
$R^2 = 0.99953896$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.6
p1 Cal 4-50ng	4	✓	50.0	51.3	102.7
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng	7	✓	500.0	493.3	98.7
p1 Cal 8-1000ng	8	✓	1000.0	966.3	96.6

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Lamotrigine

Internal Standard   Ketamine-D4

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

$y = 0.001887 * x + 0.001707$
$R^2 = 0.99094399$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2- 10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	27.6	110.2
p1 Cal 4-50ng	4	✓	50.0	51.9	103.8
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	221.8	88.7
p1 Cal 7-500ng	7	✗	500.0	357.8	71.6
p1 Cal 8-1000ng	8	✗	1000.0	526.9	52.7

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Lorazepam

Internal Standard   Clonazepam-D4

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

$y = 0.054153 * x + 0.127495$
$R^2 = 0.99302311$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.0	79.4
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.2
p1 Cal 4-50ng	4	✓	50.0	56.4	112.9
p1 Cal 5-100ng	5	✓	100.0	107.0	107.0
p1 Cal 6-250ng	6	✓	250.0	236.0	94.4
p1 Cal 7-500ng	7	✗	500.0	340.3	68.1
p1 Cal 8-1000ng	8	✗	1000.0	436.4	43.6

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

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Analyst Name ISP\datastor
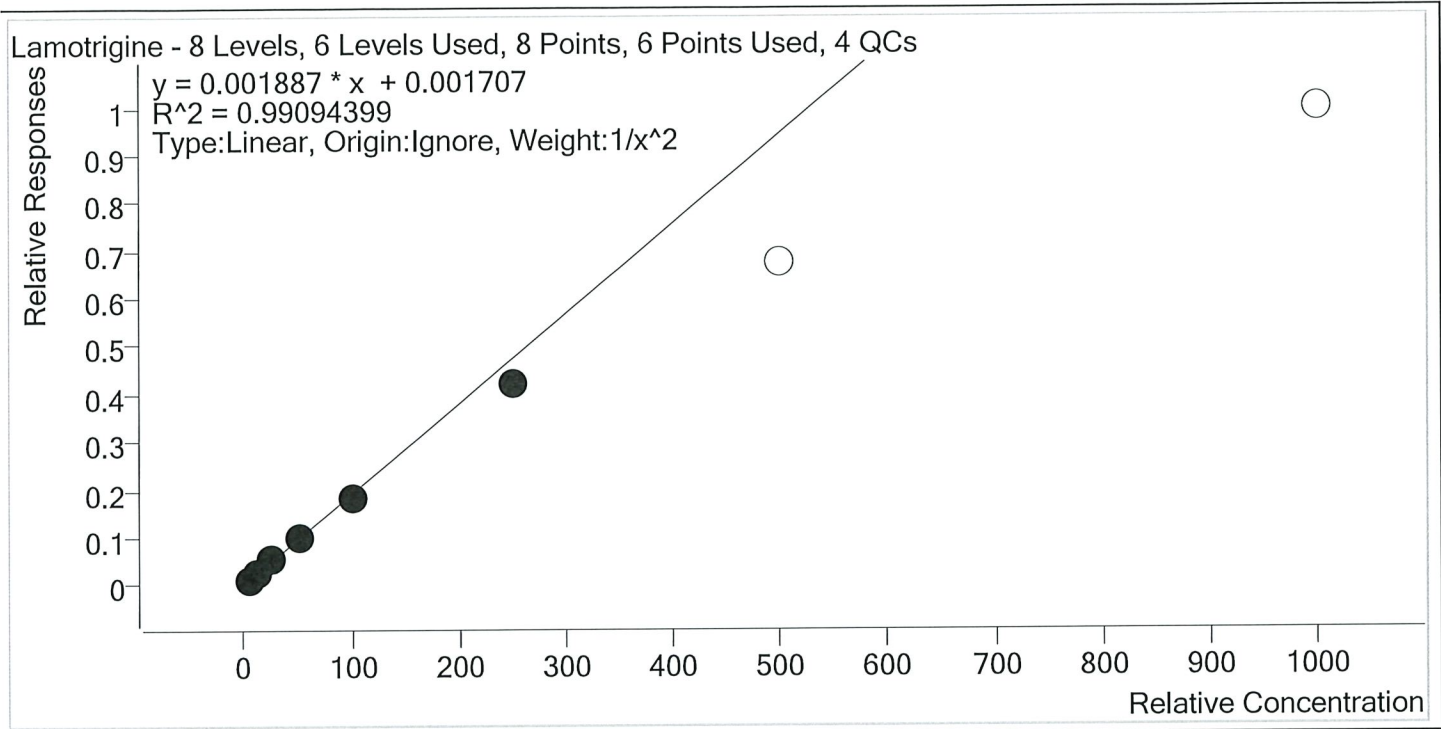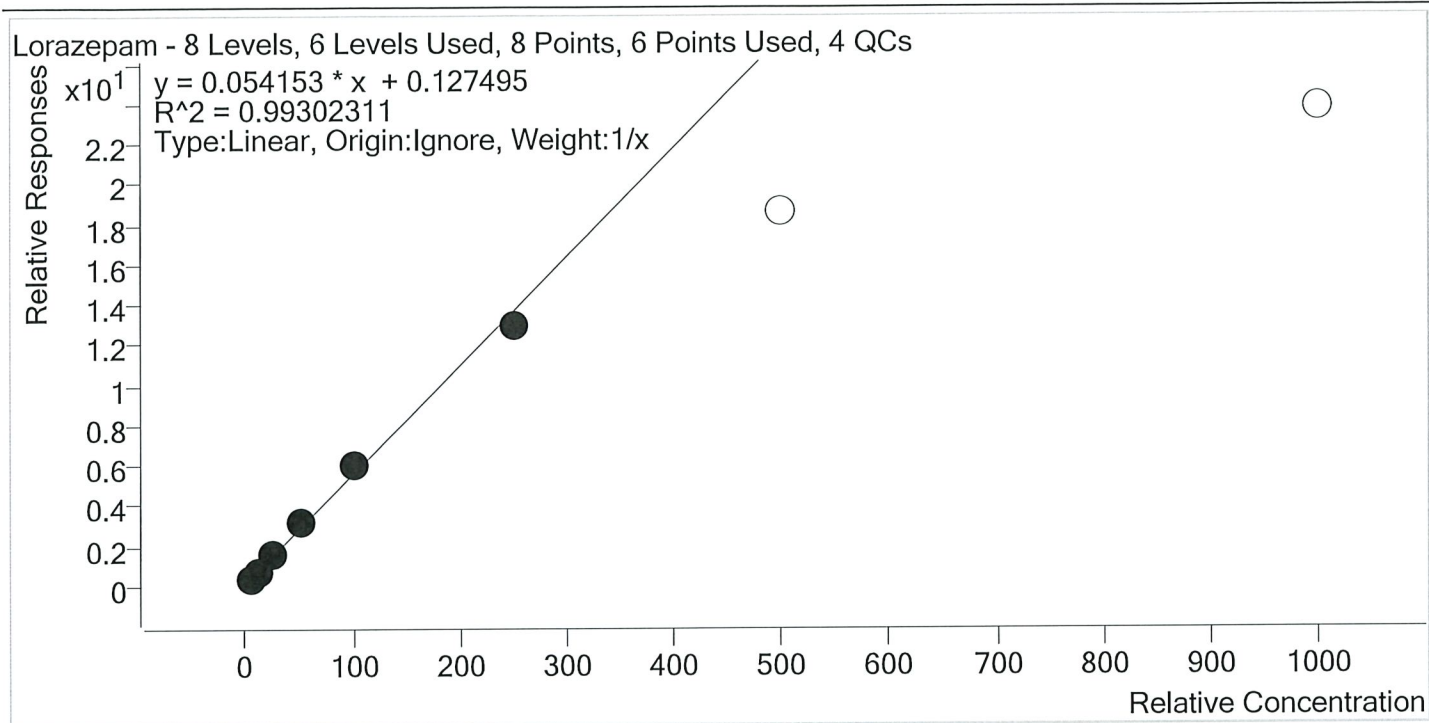
Analyte Meprobamate **Internal Standard** Meprobamate-D7

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

$y = 0.018000 * x + 0.009604$
$R^2 = 0.99683609$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	249.5	99.8
p1 Cal 7-500ng	7	✓	500.0	452.5	90.5
p1 Cal 8-1000ng	8	✗	1000.0	764.8	76.5

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor
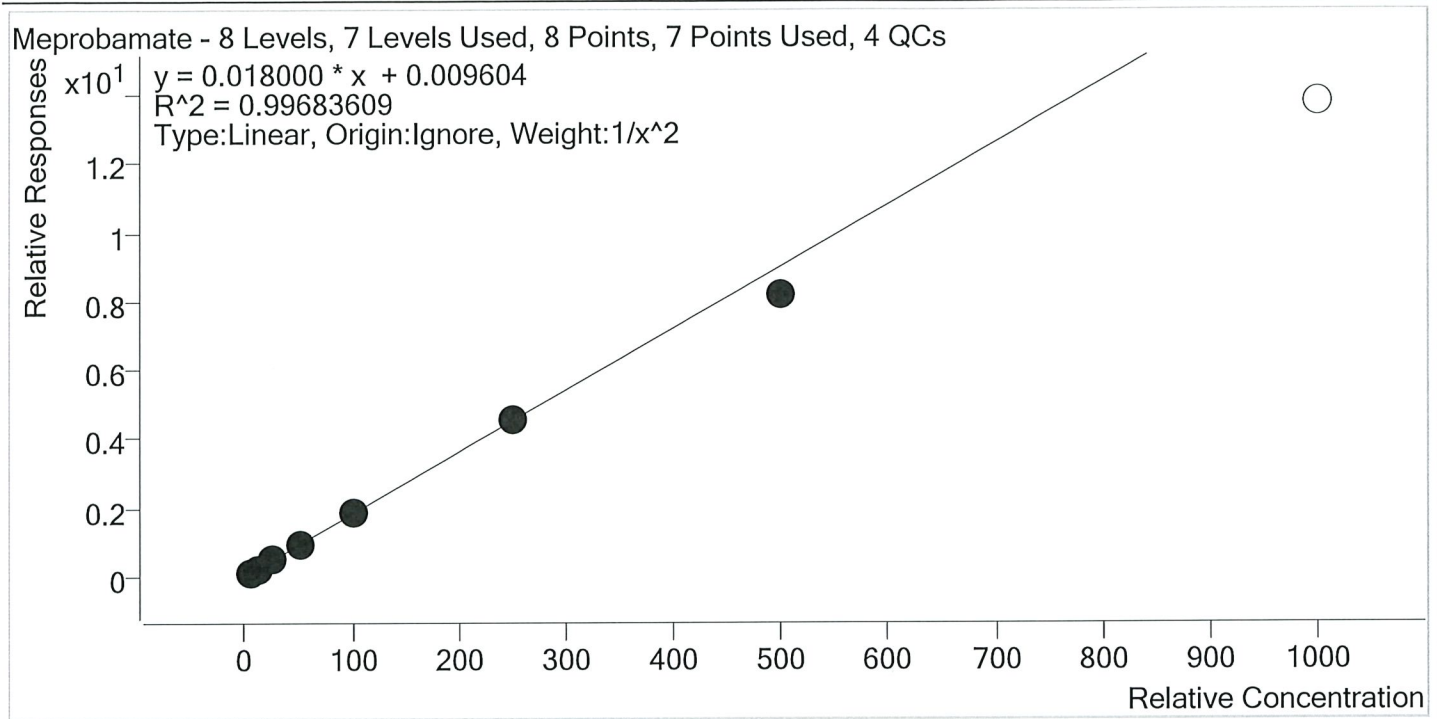
Analyte   Methadone   **Internal Standard**   Methadone-D9
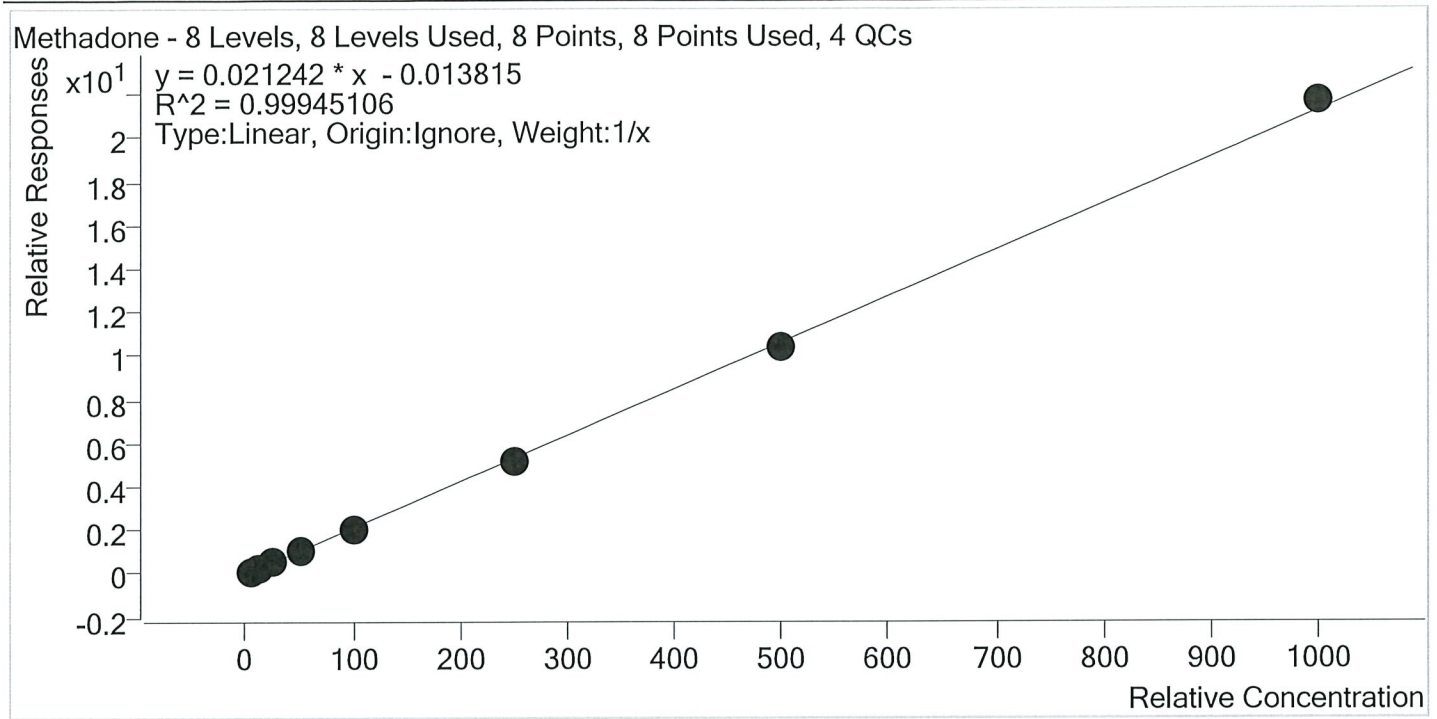
Methadone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.021242 * x - 0.013815$
$R^2 = 0.99945106$
Type:Linear, Origin:Ignore, Weight:1/x

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.4	107.8
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	48.5	97.0
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	246.3	98.5
p1 Cal 7-500ng	7	✓	500.0	487.3	97.5
p1 Cal 8-1000ng	8	✓	1000.0	1020.6	102.1

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

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Analyst Name   ISP\datastor

Analyte   Methamphetamine   **Internal Standard**   Methamphetamine-D11

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

$y = 0.022430 * x + 0.043995$

$R^2 = 0.99664863$

Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2- 10ng	2	✓	10.0	9.5	95.2
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.2
p1 Cal 4-50ng	4	✓	50.0	52.5	104.9
p1 Cal 5-100ng	5	✓	100.0	103.9	103.9
p1 Cal 6-250ng	6	✓	250.0	258.7	103.5
p1 Cal 7-500ng	7	✓	500.0	494.0	98.8
p1 Cal 8-1000ng	8	✓	1000.0	902.6	90.3

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor

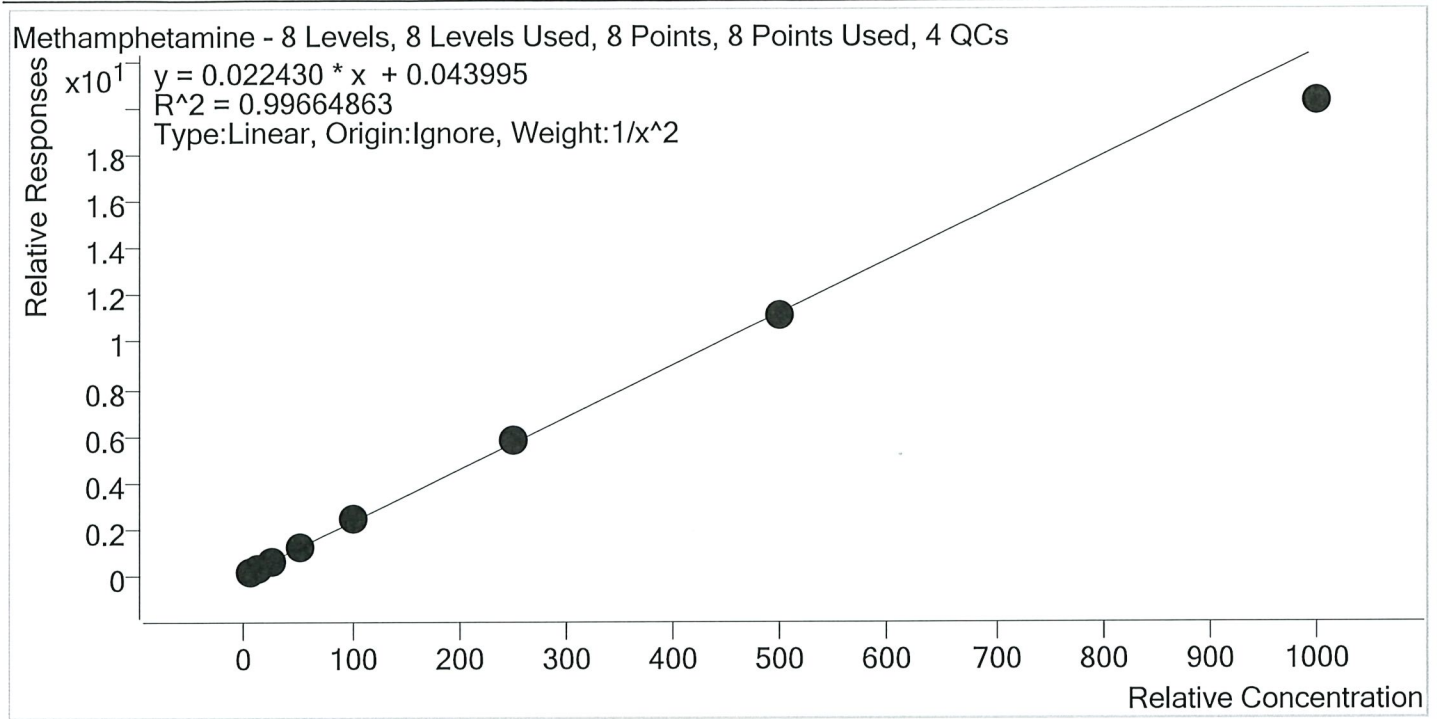**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

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

$y = 0.001394 * x + 2.155602E\text{-}005$
$R^2 = 0.99946756$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.5
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.5
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	99.3	99.3
p1 Cal 6-250ng	6	✓	250.0	255.6	102.3
p1 Cal 7-500ng	7	✓	500.0	510.9	102.2
p1 Cal 8-1000ng	8	✓	1000.0	971.4	97.1

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Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor
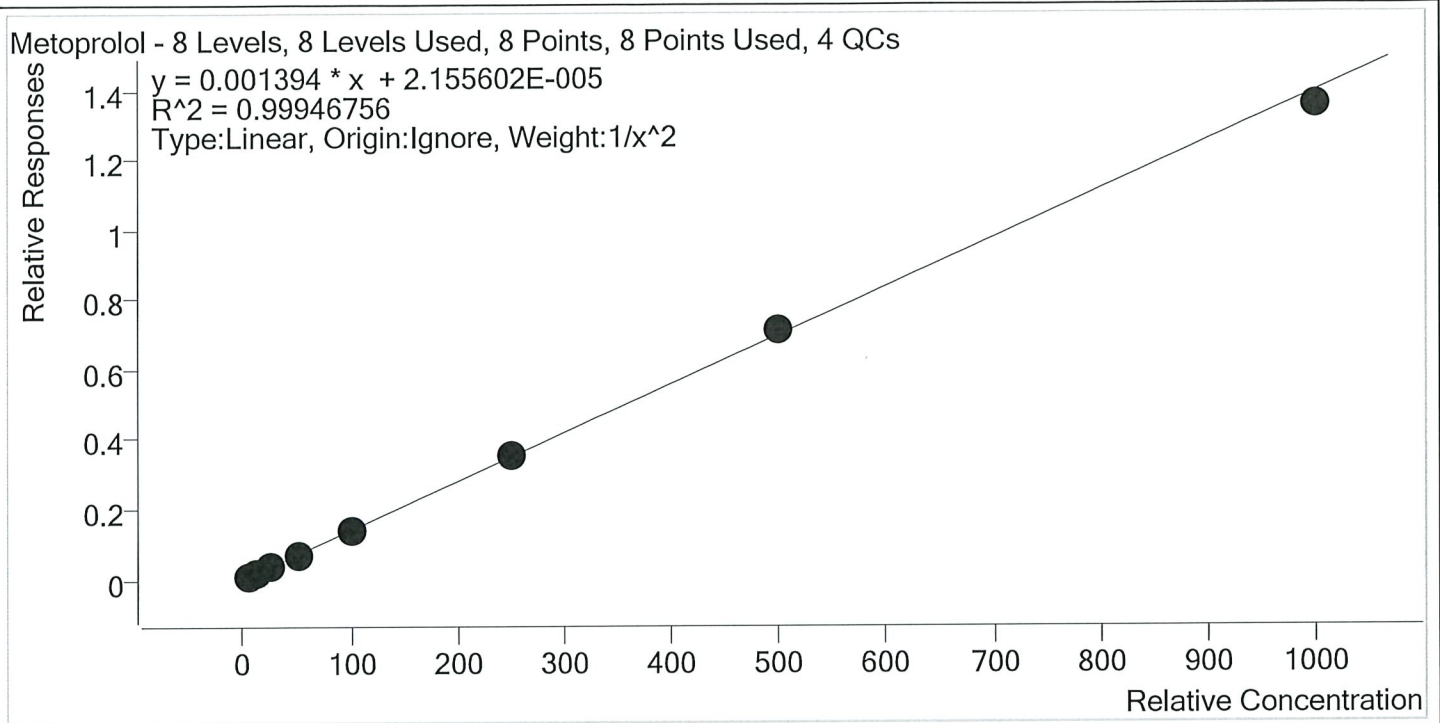
Analyte Mirtazapine   **Internal Standard** alpha-PVP-d8

Mirtazapine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
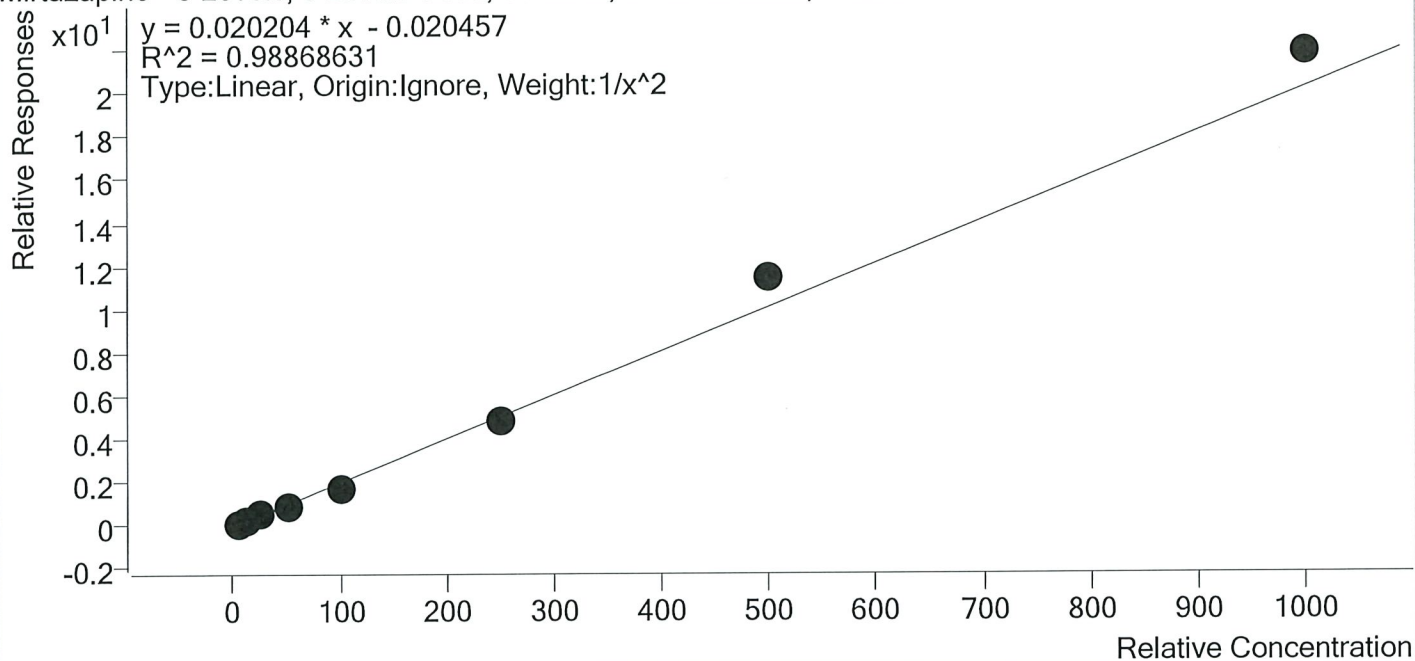
$y = 0.020204 * x - 0.020457$
$R^2 = 0.98868631$
Type:Linear, Origin:Ignore, Weight:1/x^2

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	10.5	105.2
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	48.4	96.9
p1 Cal 5-100ng	5	✓	100.0	82.3	82.3
p1 Cal 6-250ng	6	✓	250.0	243.7	97.5
p1 Cal 7-500ng	7	✓	500.0	566.0	113.2
p1 Cal 8-1000ng	8	✓	1000.0	1080.9	108.1

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

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Analyst Name   ISP\datastor

**Analyte**   Mitragynine   **Internal Standard**   Methadone-D9

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

$y = 0.003021 * x + 7.794498E\text{-}004$

$R^2 = 0.99686161$

Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.9
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	99.9	99.9
p1 Cal 6-250ng	6	✓	250.0	254.4	101.8
p1 Cal 7-500ng	7	✓	500.0	493.1	98.6
p1 Cal 8-1000ng	8	✓	1000.0	904.9	90.5

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor

Analyte   Morphine   **Internal Standard**   Morphine-D6

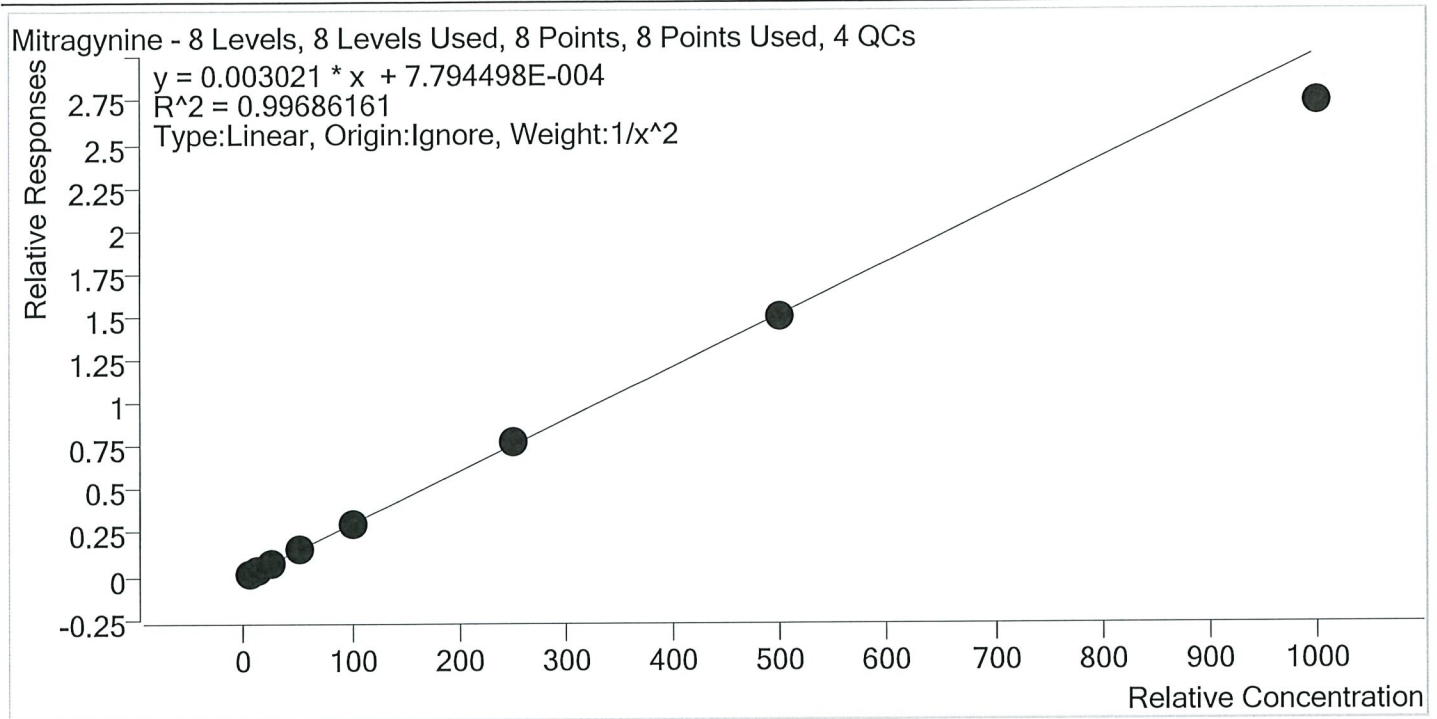Morphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
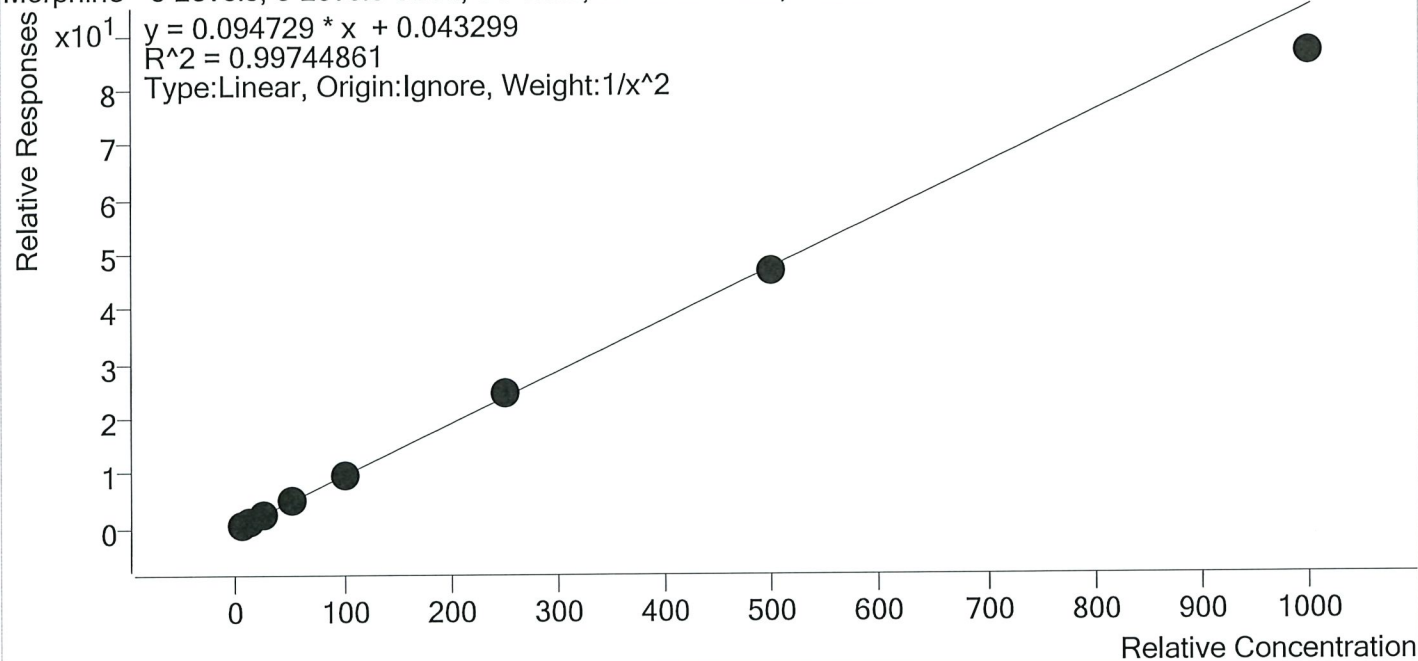
$y = 0.094729 * x + 0.043299$

$R\verb|^|2 = 0.99744861$

Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.8
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.9
p1 Cal 3 -25ng	3	✓	25.0	26.4	105.6
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	100.3	100.3
p1 Cal 6-250ng	6	✓	250.0	261.6	104.6
p1 Cal 7-500ng	7	✓	500.0	493.3	98.7
p1 Cal 8-1000ng	8	✓	1000.0	911.8	91.2

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Norbuprenorphine

Internal Standard   Norbuprenorphine-D3

Norbuprenorphine - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 4 QCs
$y = 0.020781 * x + 0.003752$
$R^2 = 0.99838784$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 2- 10ng	2	✓	1.0	1.0	97.5
p1 Cal 3 -25ng	3	✓	2.5	2.6	104.0
p1 Cal 4-50ng	4	✓	5.0	5.2	105.0
p1 Cal 5-100ng	5	✓	10.0	10.1	101.4
p1 Cal 6-250ng	6	✓	25.0	24.1	96.4
p1 Cal 7-500ng	7	✓	50.0	48.9	97.8
p1 Cal 8-1000ng	8	✓	100.0	98.0	98.0

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor
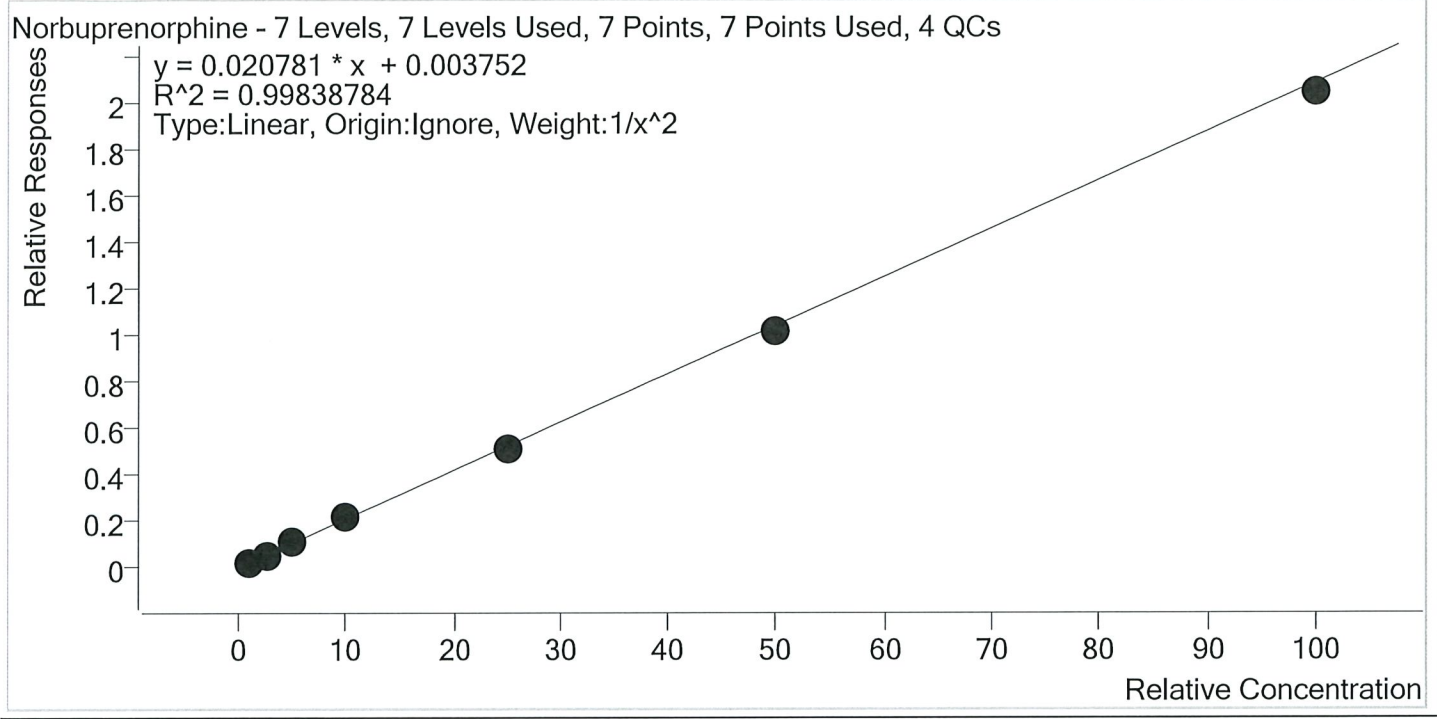
Analyte Nordiazepam   **Internal Standard** Nordiazepam-D5
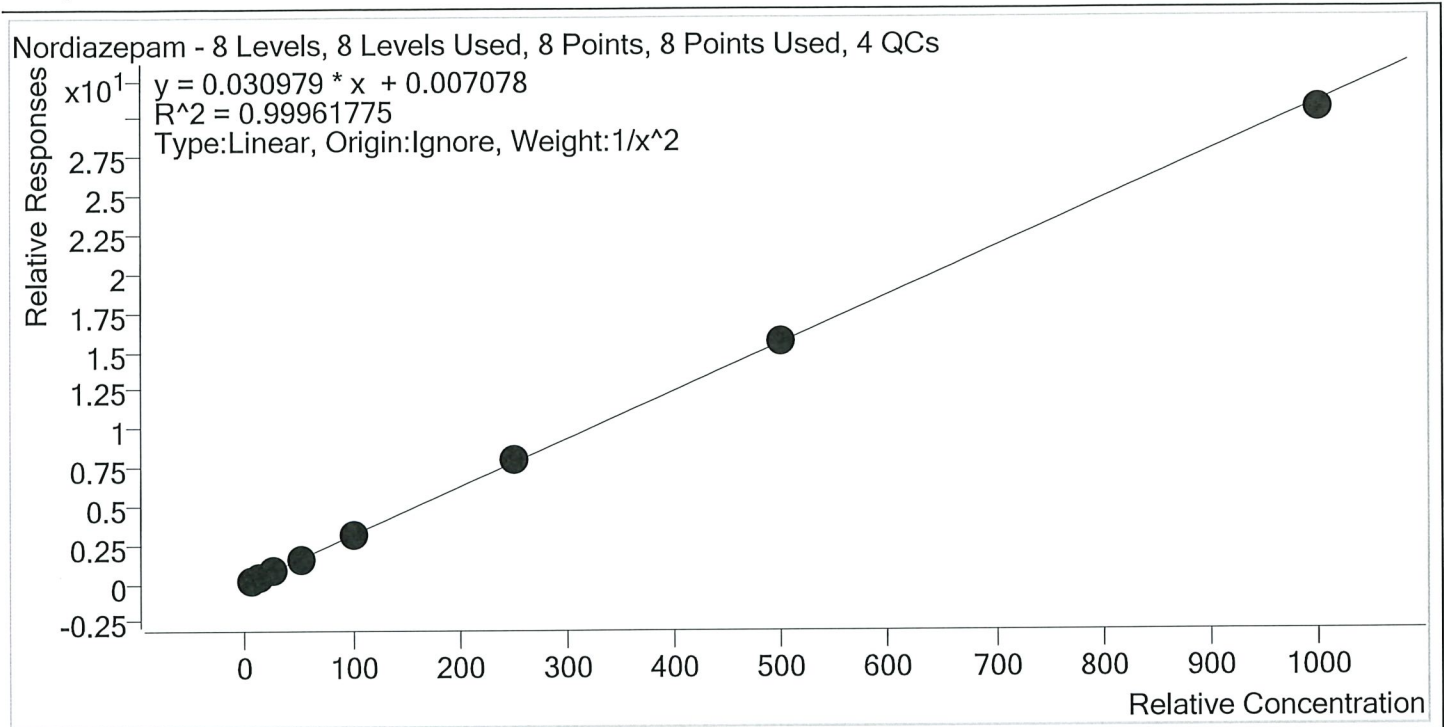
Nordiazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.030979 * x + 0.007078$
$R^2 = 0.99961775$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	98.0	98.0
p1 Cal 6-250ng	6	✓	250.0	253.7	101.5
p1 Cal 7-500ng	7	✓	500.0	501.9	100.4
p1 Cal 8-1000ng	8	✓	1000.0	985.5	98.6

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Norfentanyl

Internal Standard   Norfentanyl-D5

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

$y = 0.024281 * x - 8.131482E{-}004$

$R^2 = 0.99099651$

Type:Linear, Origin:Ignore, Weight:1/x^2

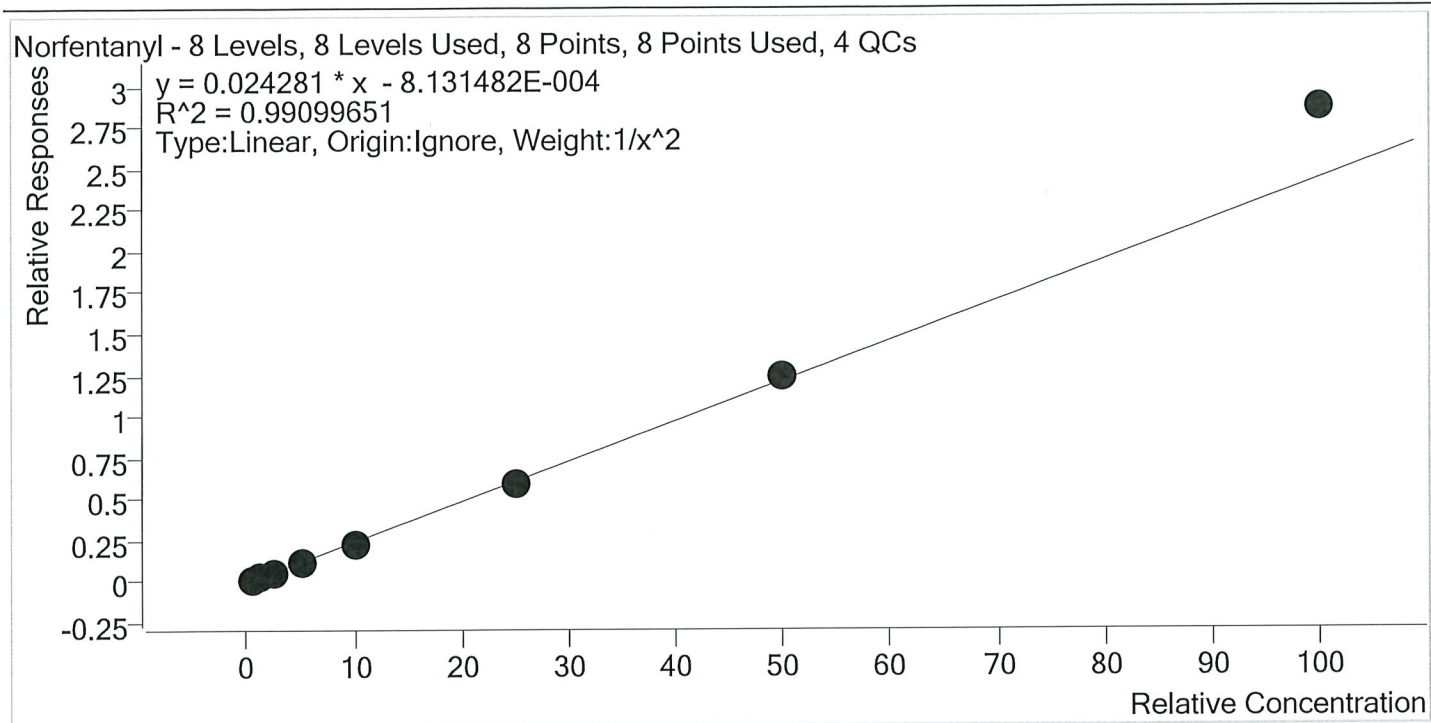| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	104.6
p1 Cal 2- 10ng	2	✓	1.0	0.9	94.2
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.7
p1 Cal 4-50ng	4	✓	5.0	4.8	96.6
p1 Cal 5-100ng	5	✓	10.0	9.3	92.7
p1 Cal 6-250ng	6	✓	25.0	24.2	96.8
p1 Cal 7-500ng	7	✓	50.0	51.3	102.7
p1 Cal 8-1000ng	8	✓	100.0	117.7	117.7

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Norhydrocodone

Internal Standard Norhydrocodone-D3

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

$y = 0.010721 * x - 0.005416$
$R^2 = 0.98819121$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.3	105.9
p1 Cal 2- 10ng	2	✓	10.0	9.4	93.7
p1 Cal 3 -25ng	3	✓	25.0	22.8	91.1
p1 Cal 4-50ng	4	✓	50.0	45.9	91.9
p1 Cal 5-100ng	5	✓	100.0	93.4	93.4
p1 Cal 6-250ng	6	✓	250.0	260.3	104.1
p1 Cal 7-500ng	7	✓	500.0	505.9	101.2
p1 Cal 8-1000ng	8	✓	1000.0	1187.0	118.7

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor

Analyte   Noroxycodone   **Internal Standard**   Noroxycodone-D3
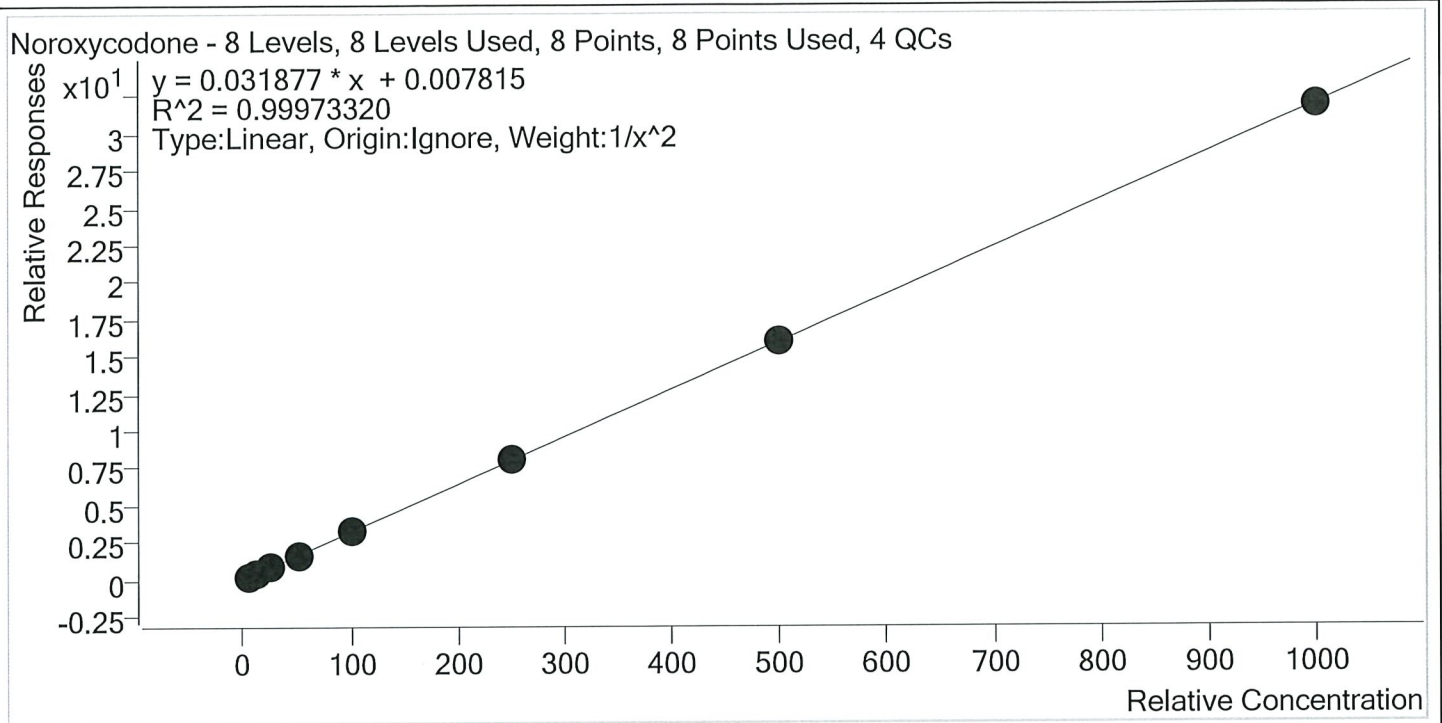
Noroxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.031877 * x + 0.007815$
$R^2 = 0.99973320$
Type:Linear, Origin:Ignore, Weight:1/x^2

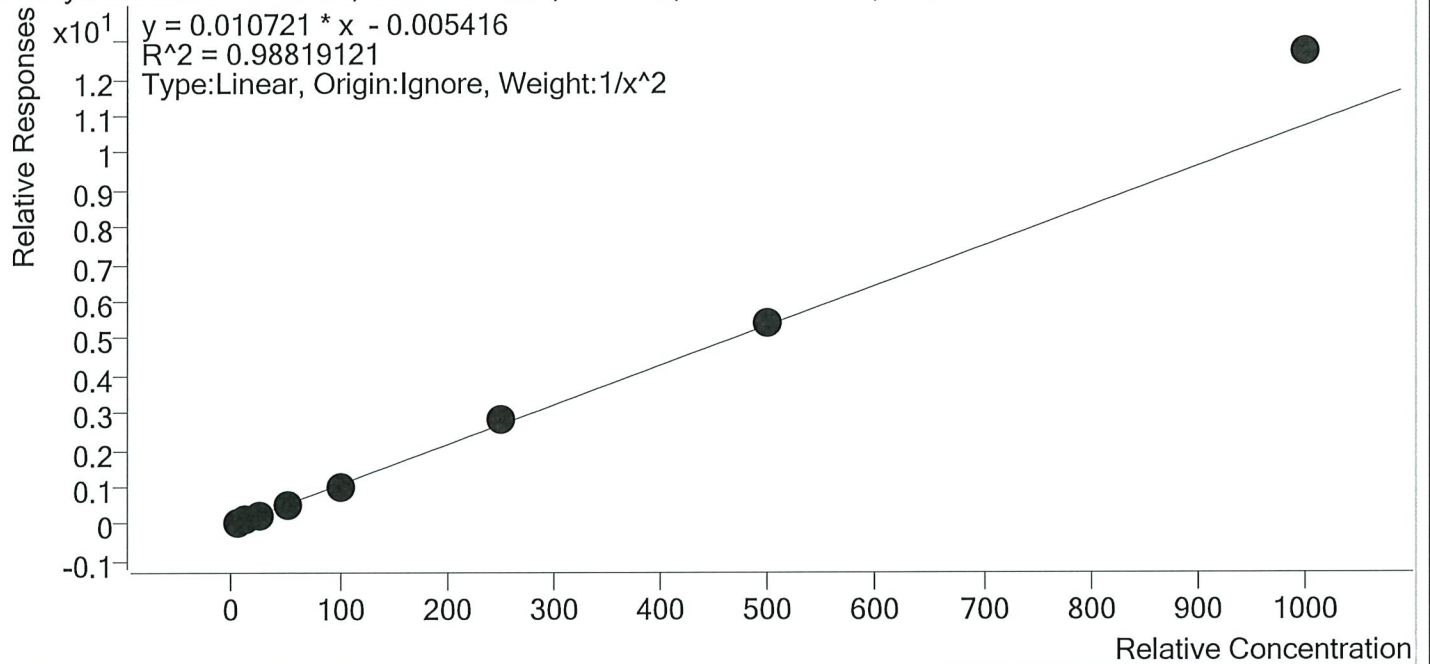| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.9
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.8
p1 Cal 4-50ng	4	✓	50.0	51.4	102.8
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
p1 Cal 7-500ng	7	✓	500.0	501.2	100.2
p1 Cal 8-1000ng	8	✓	1000.0	997.7	99.8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	O-desmethyl-tramadol

Internal Standard   O-desmethyl-tramadol-D6

O-desmethyl-tramadol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.018457 * x + 0.001912$
$R^2 = 0.99932338$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.0
p1 Cal 4-50ng	4	✓	50.0	49.6	99.3
p1 Cal 5-100ng	5	✓	100.0	97.1	97.1
p1 Cal 6-250ng	6	✓	250.0	251.7	100.7
p1 Cal 7-500ng	7	✓	500.0	512.3	102.5
p1 Cal 8-1000ng	8	✓	1000.0	1030.8	103.1

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor

Analyte   Oxazepam   **Internal Standard**   Oxazepam-D5

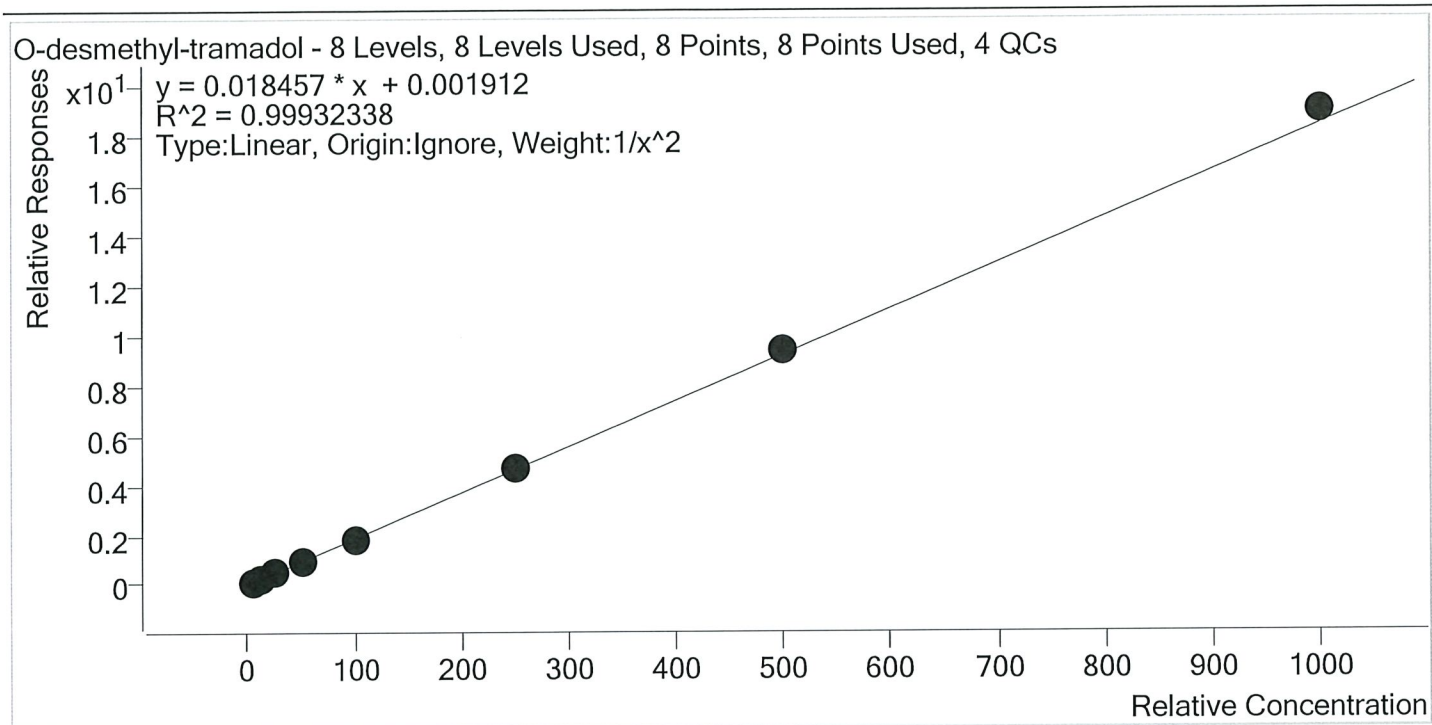Oxazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.015864 * x + 0.006389$
$R^2 = 0.99948392$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.4
p1 Cal 4-50ng	4	✓	50.0	51.5	102.9
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	490.5	98.1
p1 Cal 8-1000ng	8	✓	1000.0	982.8	98.3

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Oxycodone

Internal Standard   Oxycodone-D6
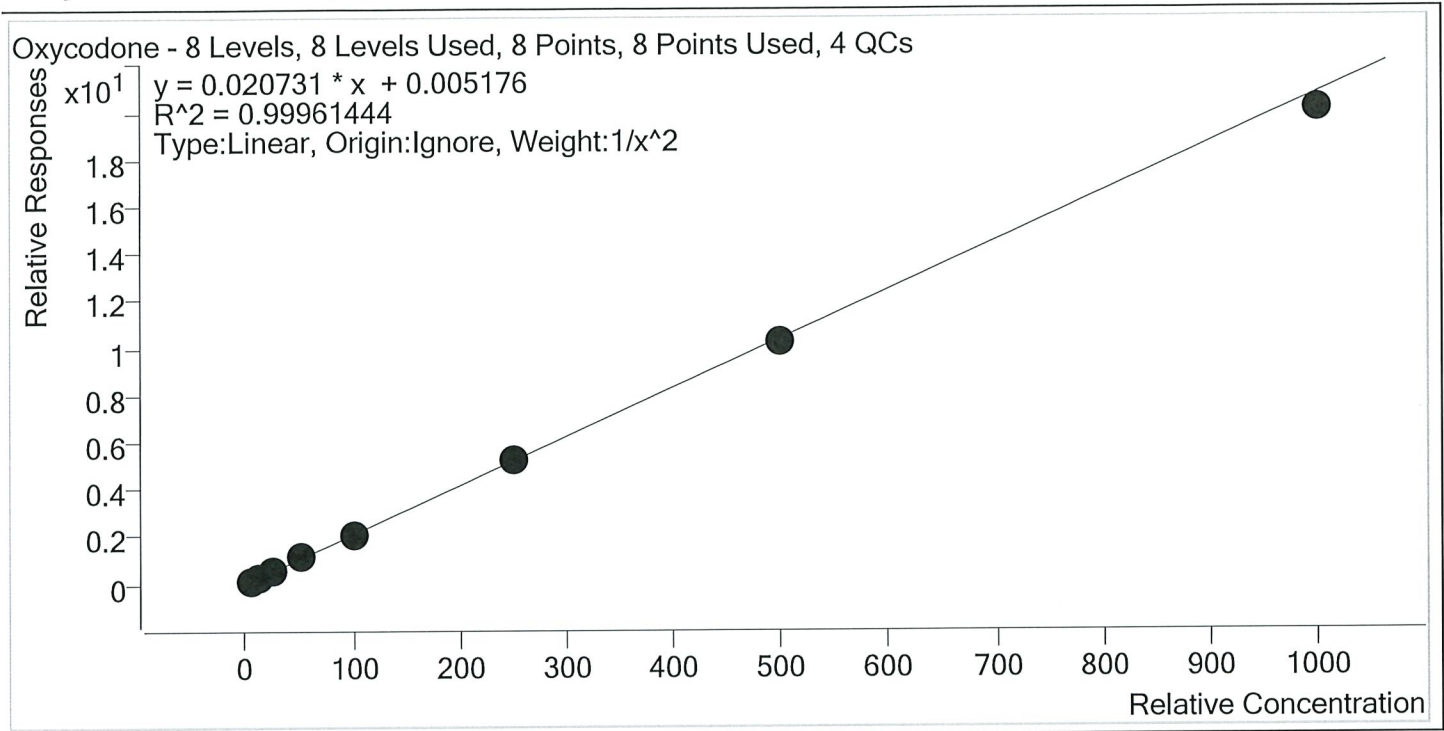
Oxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.020731 * x + 0.005176$
$R^2 = 0.99961444$
Type:Linear, Origin:Ignore, Weight:1/x^2

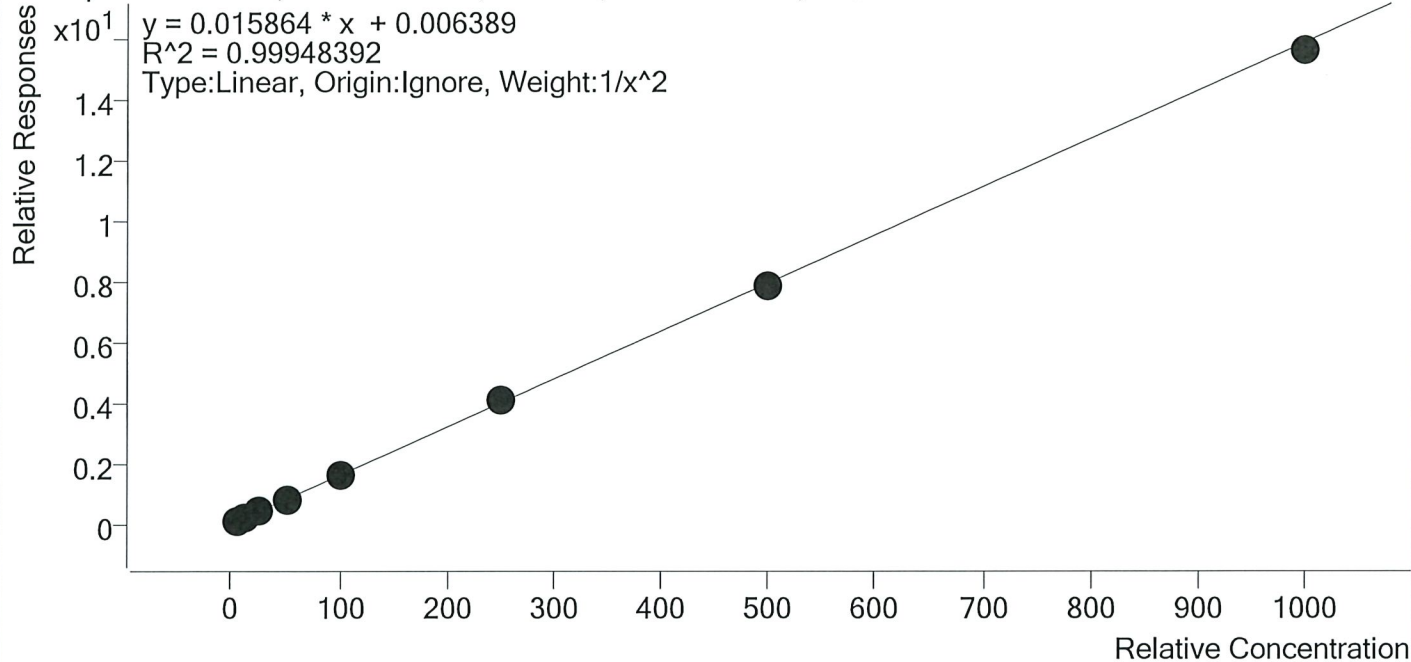| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	51.4	102.9
p1 Cal 5-100ng	5	✓	100.0	100.7	100.7
p1 Cal 6-250ng	6	✓	250.0	249.9	100.0
p1 Cal 7-500ng	7	✓	500.0	497.0	99.4
p1 Cal 8-1000ng	8	✓	1000.0	967.6	96.8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Oxymorphone

Internal Standard   Oxymorphone-D3

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

$y = 0.026939 * x + 0.012400$
$R^2 = 0.99715988$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2- 10ng	2	✓	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✓	25.0	26.0	103.8
p1 Cal 4-50ng	4	✓	50.0	53.4	106.8
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	255.9	102.4
p1 Cal 7-500ng	7	✓	500.0	480.0	96.0
p1 Cal 8-1000ng	8	✓	1000.0	920.6	92.1

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AM #28 Multi-Drug Quant. Calibration Curve Report

Analyte   Phentermine   **Internal Standard**   Phentermine-D5

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

$y = 0.007827 * x + 0.003730$

$R^2 = 0.99646082$

Type:Linear, Origin:Ignore, Weight:$1/x^2$

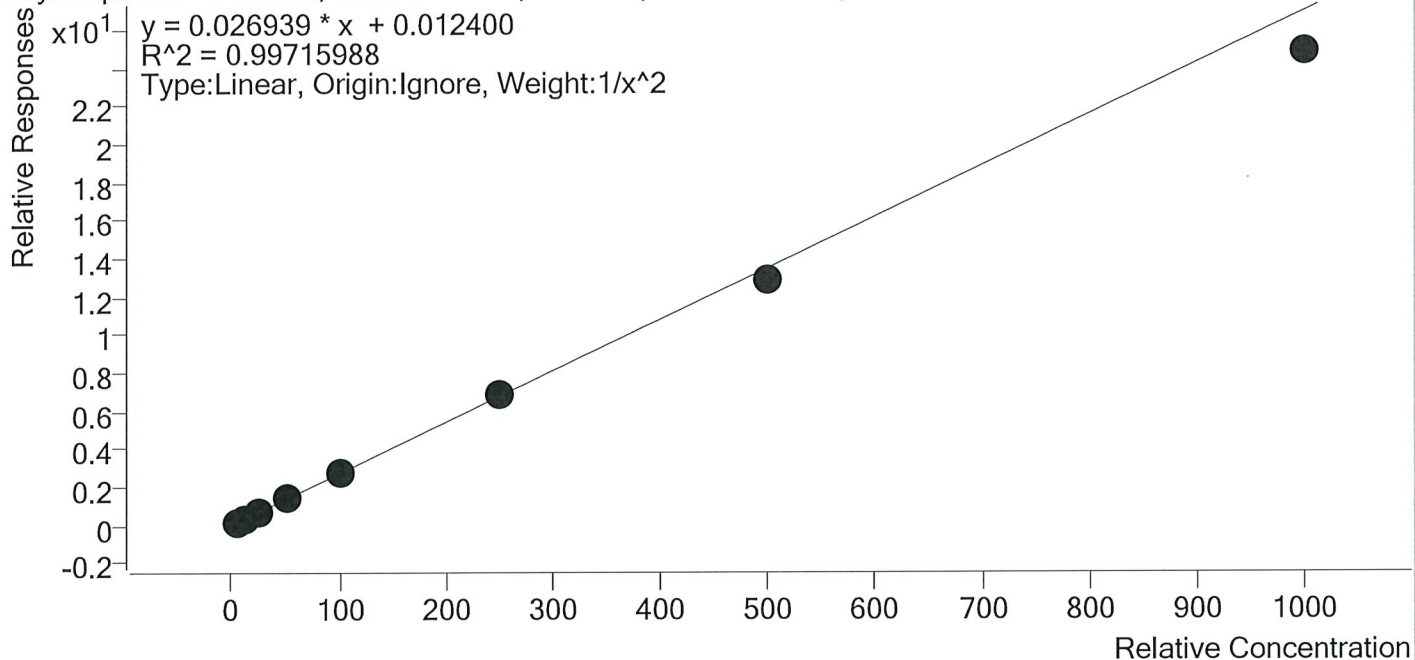| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.6
p1 Cal 2- 10ng	2	✓	10.0	10.0	100.2
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.8
p1 Cal 4-50ng	4	✓	50.0	53.2	106.3
p1 Cal 5-100ng	5	✓	100.0	102.5	102.5
p1 Cal 6-250ng	6	✓	250.0	255.9	102.4
p1 Cal 7-500ng	7	✓	500.0	491.2	98.2
p1 Cal 8-1000ng	8	✓	1000.0	889.4	88.9

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Promethazine

Internal Standard Promethazine-D3

Promethazine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs
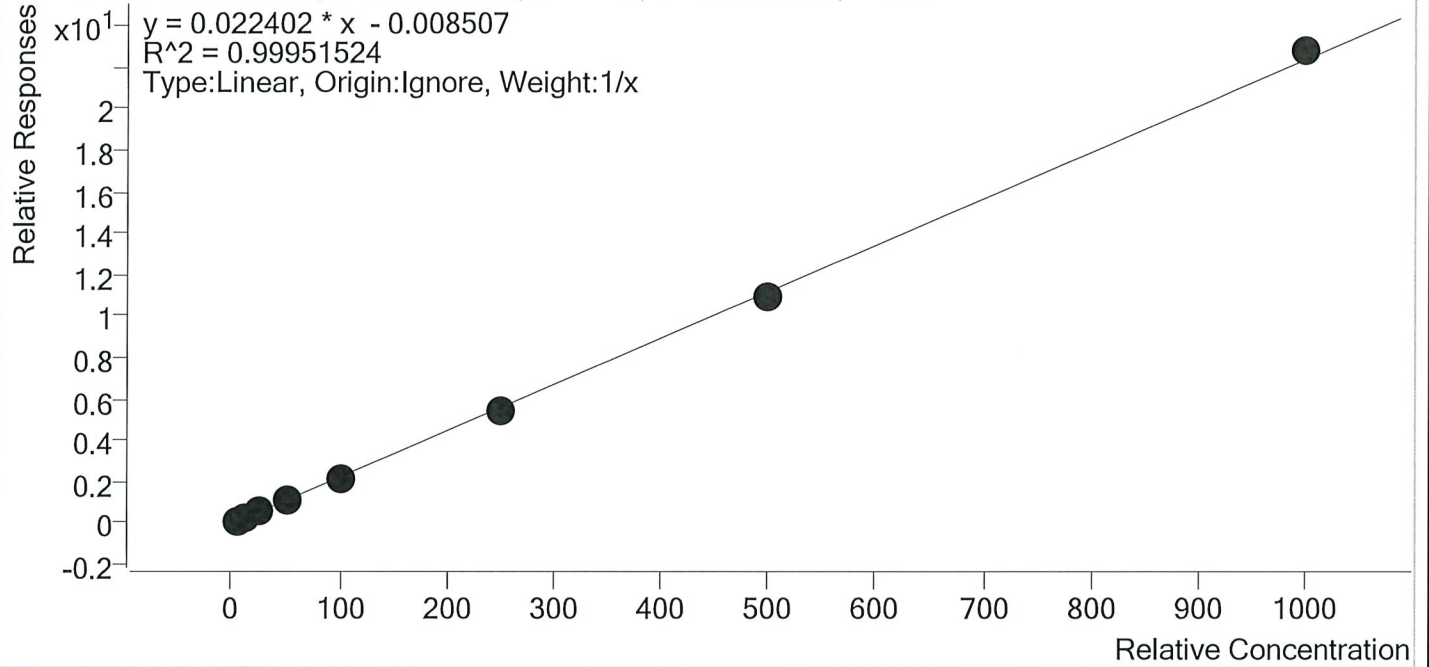
$y = 0.022402 * x - 0.008507$
$R^2 = 0.99951524$
Type:Linear, Origin:Ignore, Weight:1/x

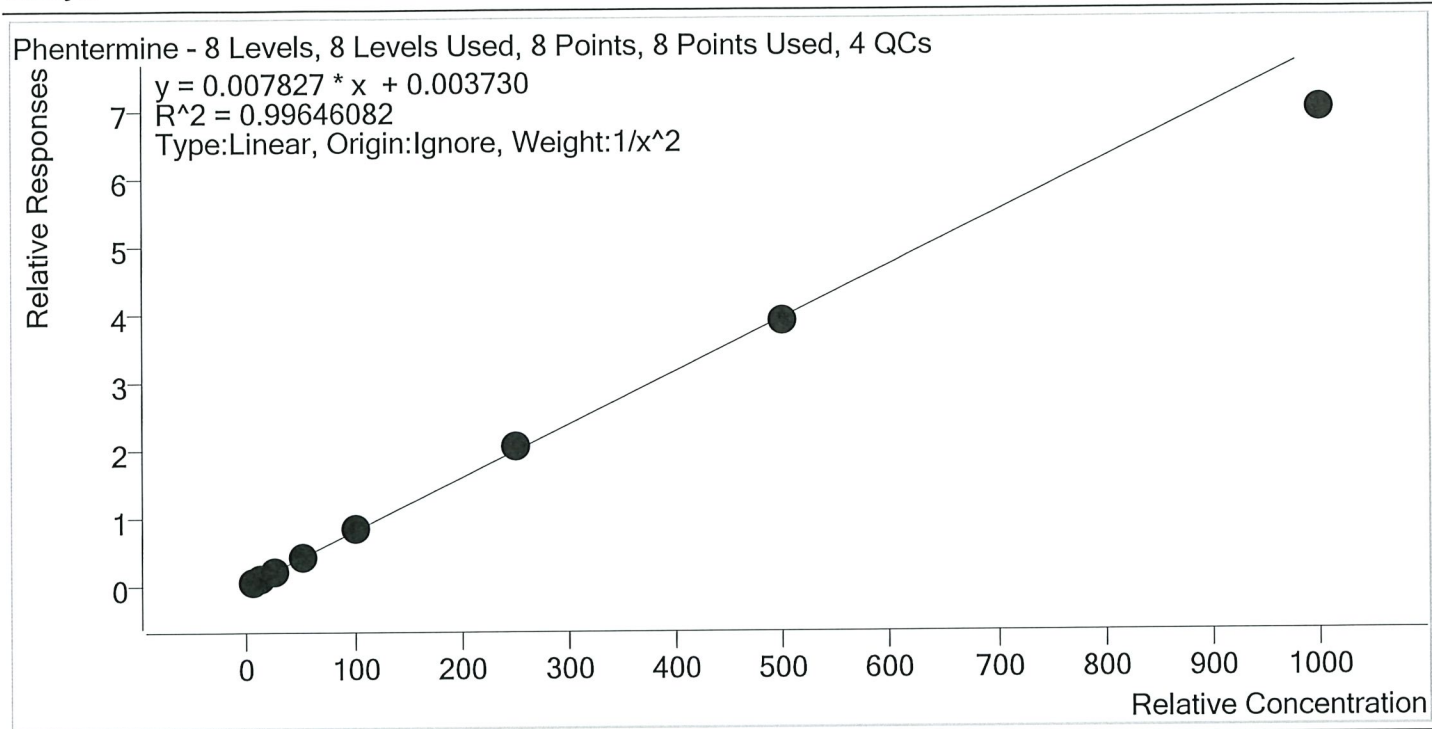| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	109.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.5
p1 Cal 3 -25ng	3	✓	25.0	23.9	95.7
p1 Cal 4-50ng	4	✓	50.0	50.5	101.0
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	243.3	97.3
p1 Cal 7-500ng	7	✓	500.0	491.5	98.3
p1 Cal 8-1000ng	8	✓	1000.0	1018.5	101.8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Quetiapine

Internal Standard   Quetiapine-D8

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

$y = 0.074611 * x + 0.010543$
$R^2 = 0.99954788$
Type:Linear, Origin:Ignore, Weight:1/x^2

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2- 10ng	2	✓	10.0	9.7	96.5
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.7
p1 Cal 4-50ng	4	✓	50.0	50.6	101.1
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	250.2	100.1
p1 Cal 7-500ng	7	✓	500.0	496.2	99.2
p1 Cal 8-1000ng	8	✓	1000.0	1016.0	101.6

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Sertraline

Internal Standard Sertraline-D3

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

$y = 0.023926 * x - 0.015355$
$R^2 = 0.99927363$
Type:Linear, Origin:Ignore, Weight:1/x

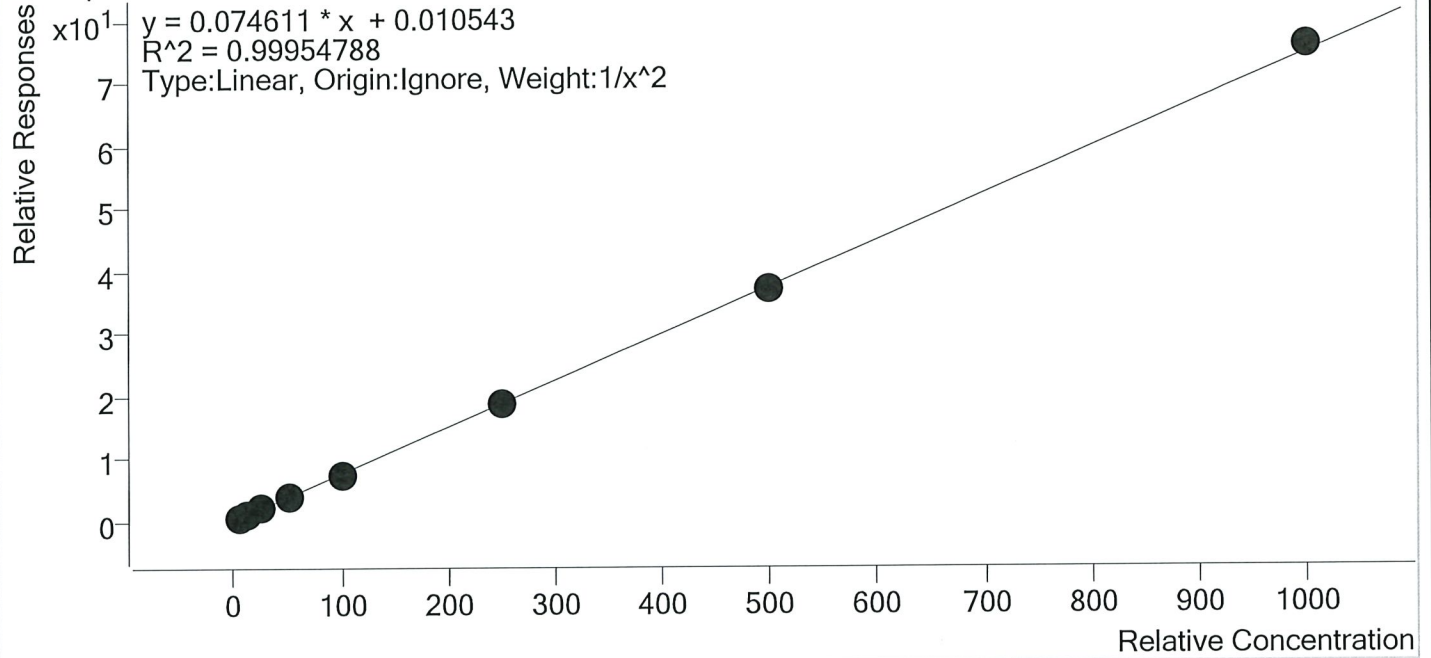| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	113.6
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	23.6	94.5
p1 Cal 4-50ng	4	✓	50.0	49.5	98.9
p1 Cal 5-100ng	5	✓	100.0	95.2	95.2
p1 Cal 6-250ng	6	✓	250.0	246.7	98.7
p1 Cal 7-500ng	7	✓	500.0	487.0	97.4
p1 Cal 8-1000ng	8	✓	1000.0	1022.4	102.2

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AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor

Analyte Temazepam   **Internal Standard** Temazepam-D5

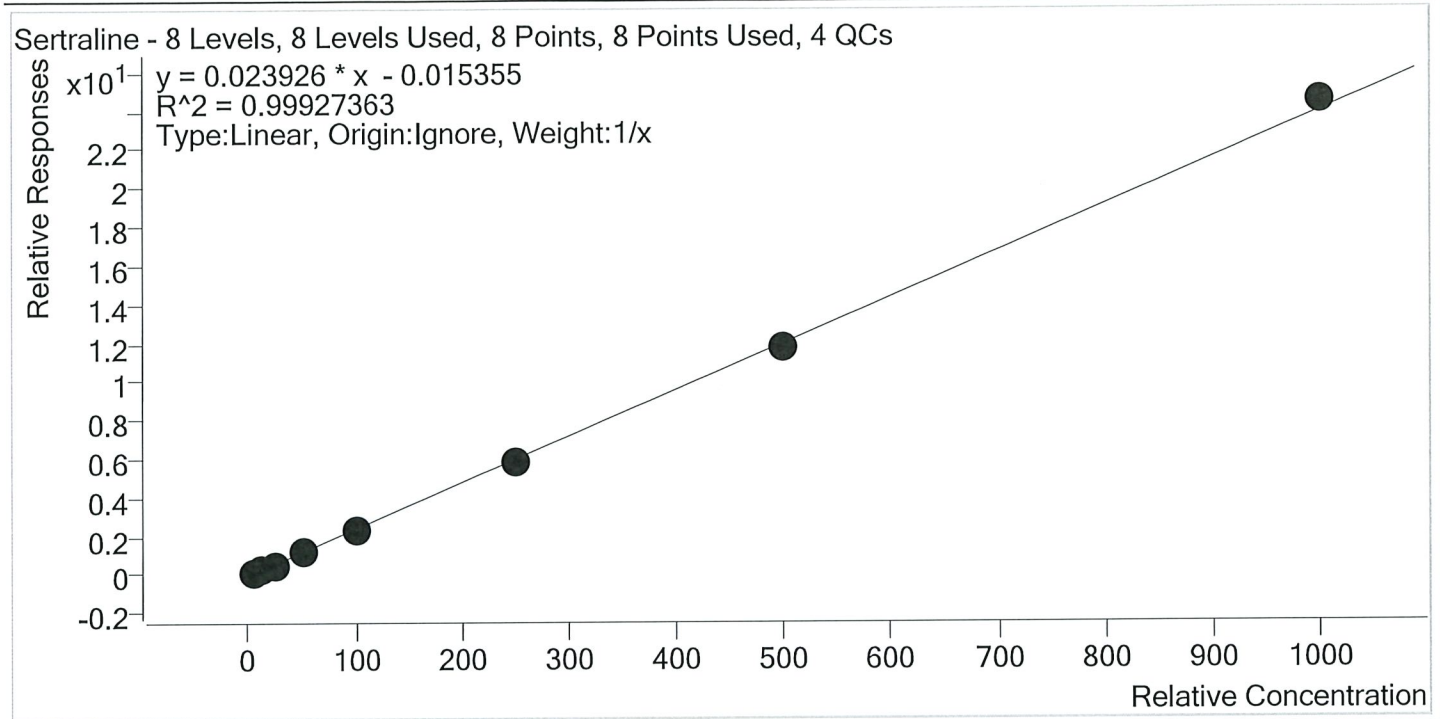Temazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

$y = 0.018529 * x + 9.766297E\text{-}004$
$R^2 = 0.99869437$
Type:Linear, Origin:Ignore, Weight:1/x^2

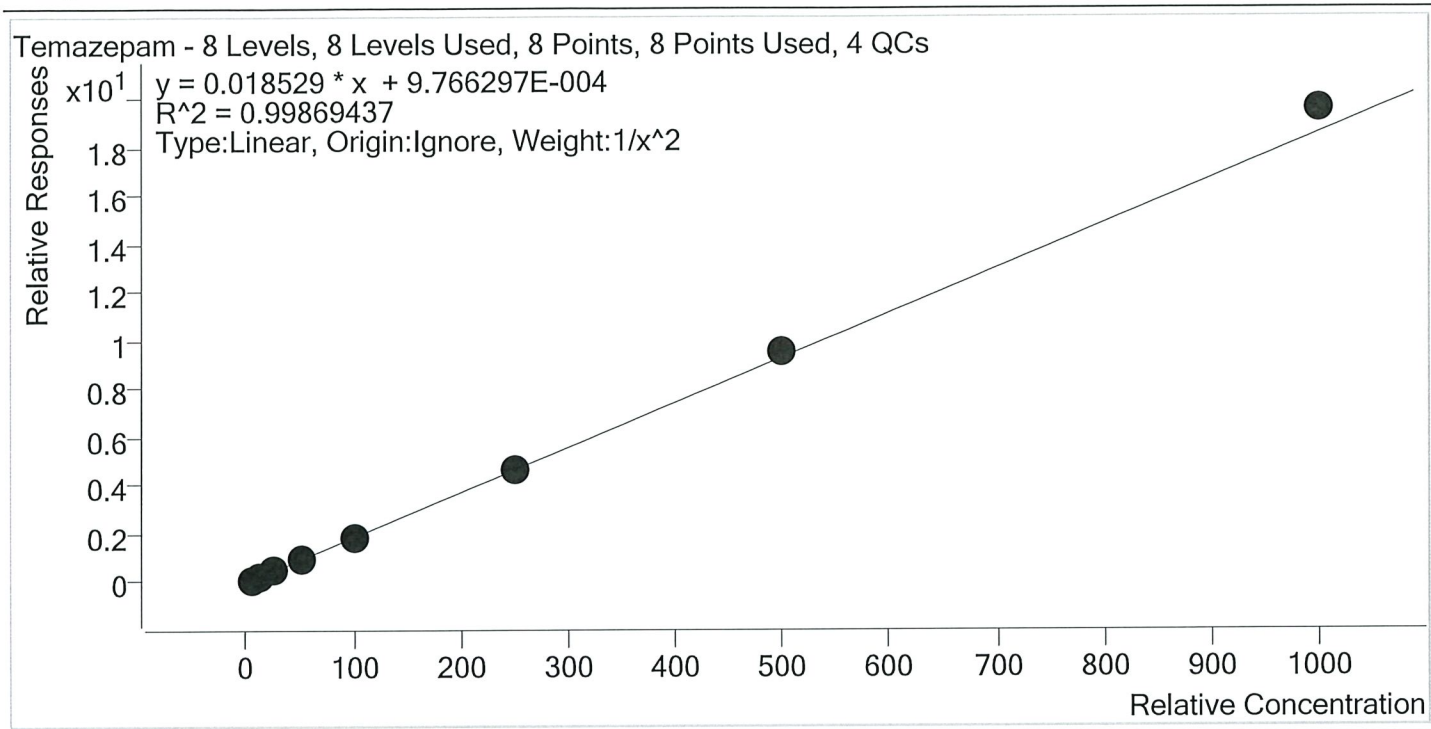| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.2
p1 Cal 2- 10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.8
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	512.2	102.4
p1 Cal 8-1000ng	8	✓	1000.0	1054.0	105.4

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor

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

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

$y = 0.018064 * x + 0.014151$
$R^2 = 0.99931876$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.4
p1 Cal 4-50ng	4	✓	50.0	51.6	103.1
p1 Cal 5-100ng	5	✓	100.0	99.1	99.1
p1 Cal 6-250ng	6	✓	250.0	254.2	101.7
p1 Cal 7-500ng	7	✓	500.0	499.7	99.9
p1 Cal 8-1000ng	8	✓	1000.0	954.7	95.5

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Last Cal. Update	3/27/2020 2:47 PM
Analyst Name	ISP\datastor
Analyte	Trazodone

Internal Standard   Trazodone-D6

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

$y = 0.022598 * x + 0.006680$
$R^2 = 0.99925002$
Type:Linear, Origin:Ignore, Weight:1/x^2

Relative Responses (×10^1) vs Relative Concentration

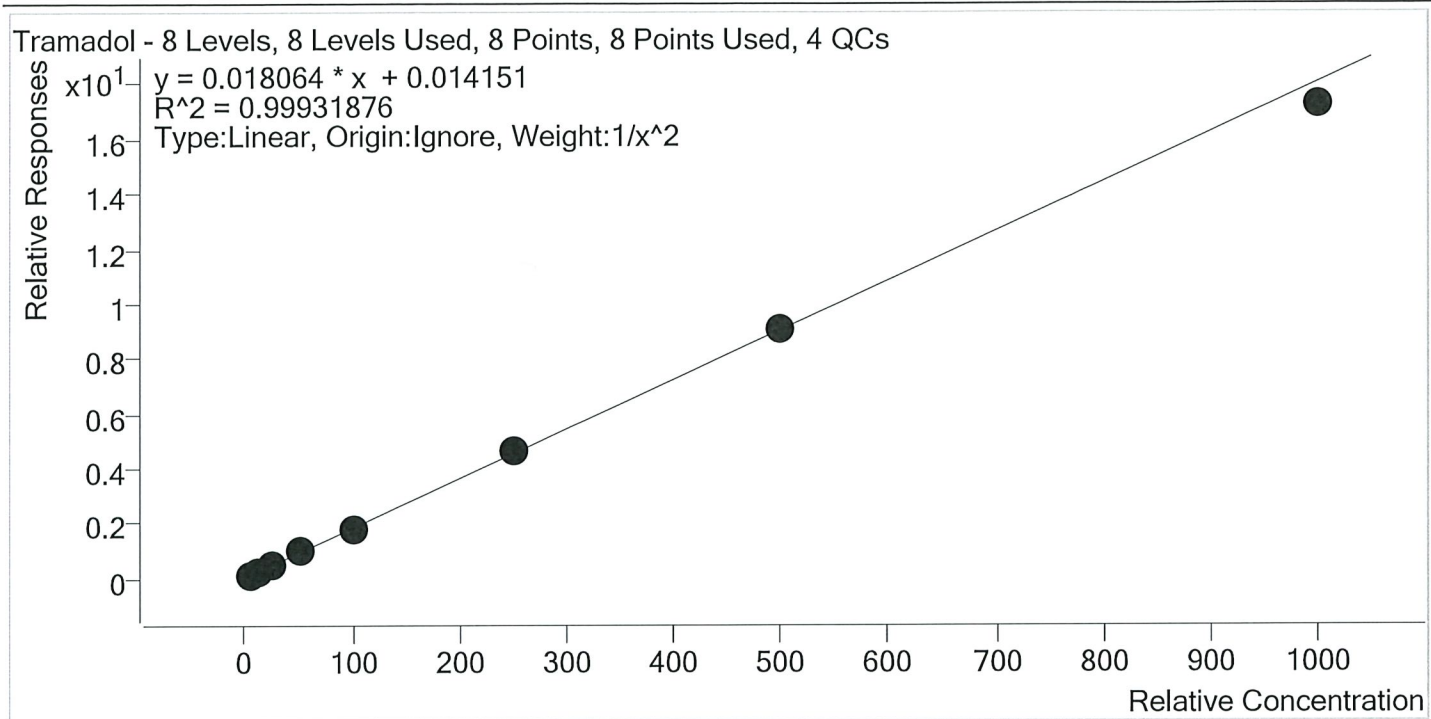| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2- 10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.4
p1 Cal 4-50ng	4	✓	50.0	50.9	101.7
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	252.5	101.0
p1 Cal 7-500ng	7	✓	500.0	488.2	97.6
p1 Cal 8-1000ng	8	✓	1000.0	960.2	96.0

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update   3/27/2020 2:47 PM

Analyst Name   ISP\datastor

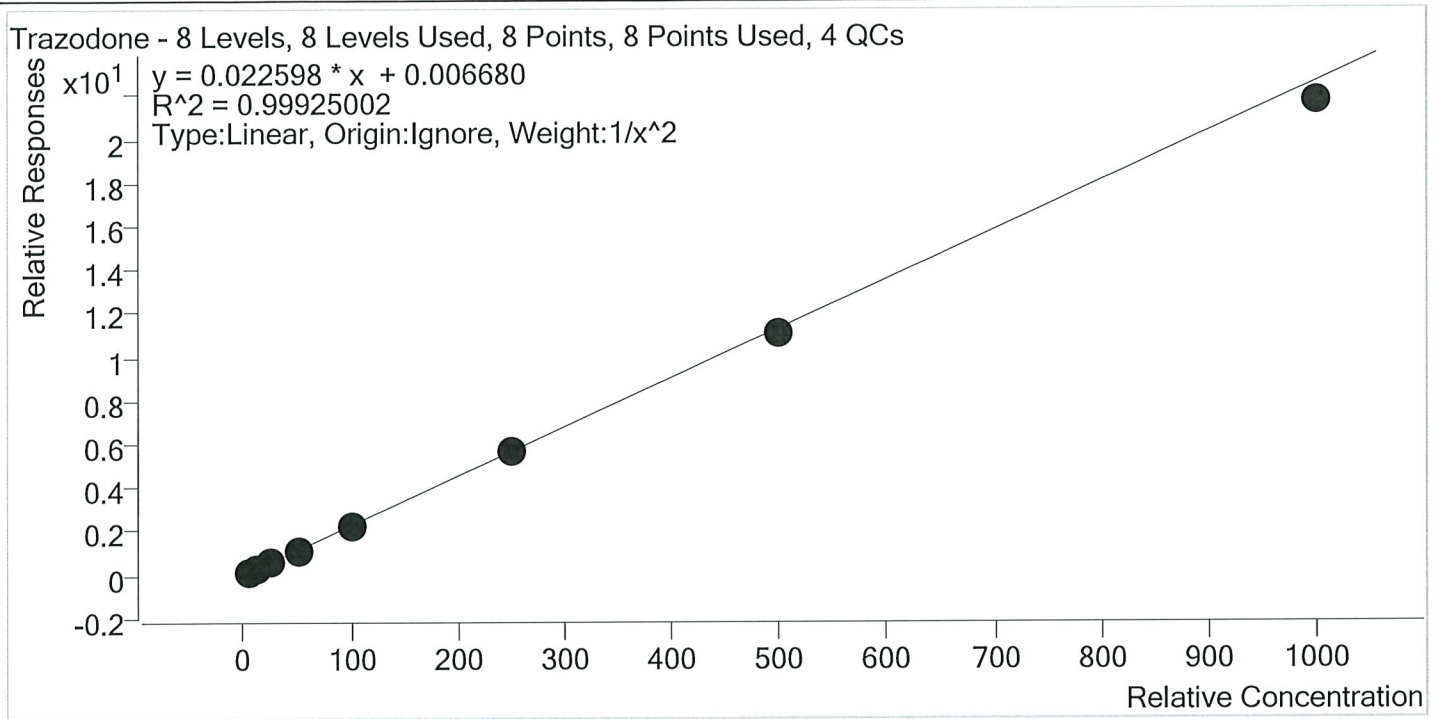**Analyte**   Venlafaxine   **Internal Standard**   Venlafaxine-D6

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

$y = 0.019454 * x - 0.010681$

$R^2 = 0.99948591$

Type:Linear, Origin:Ignore, Weight:1/x

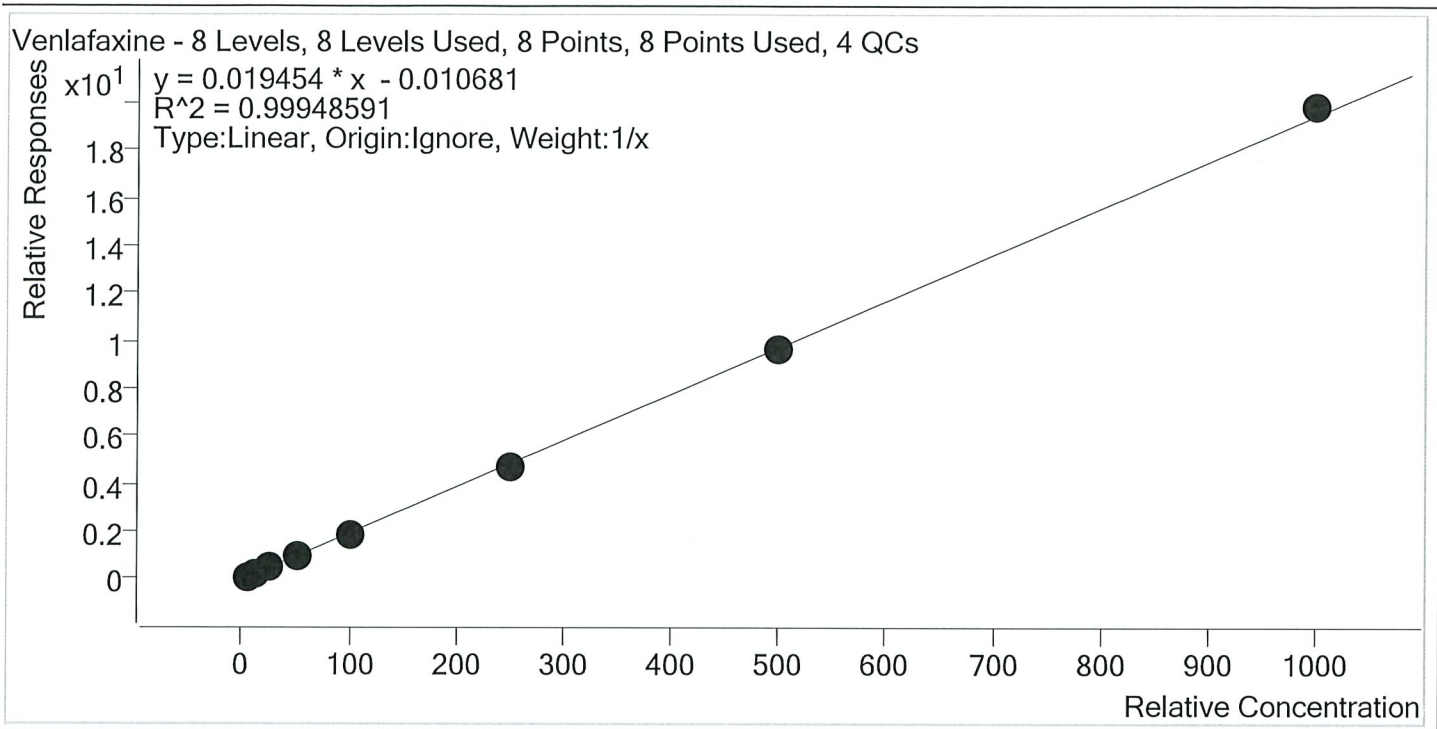| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.5	110.2
p1 Cal 2- 10ng	2	✓	10.0	10.2	101.9
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	48.9	97.9
p1 Cal 5-100ng	5	✓	100.0	95.5	95.5
p1 Cal 6-250ng	6	✓	250.0	242.7	97.1
p1 Cal 7-500ng	7	✓	500.0	494.7	98.9
p1 Cal 8-1000ng	8	✓	1000.0	1018.3	101.8

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin

Last Cal. Update 3/27/2020 2:47 PM

Analyst Name ISP\datastor

Analyte Zolpidem **Internal Standard** Zolpidem-D6

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

$y = 0.021016 * x + 0.003445$
$R^2 = 0.99970310$
Type:Linear, Origin:Ignore, Weight:$1/x^2$

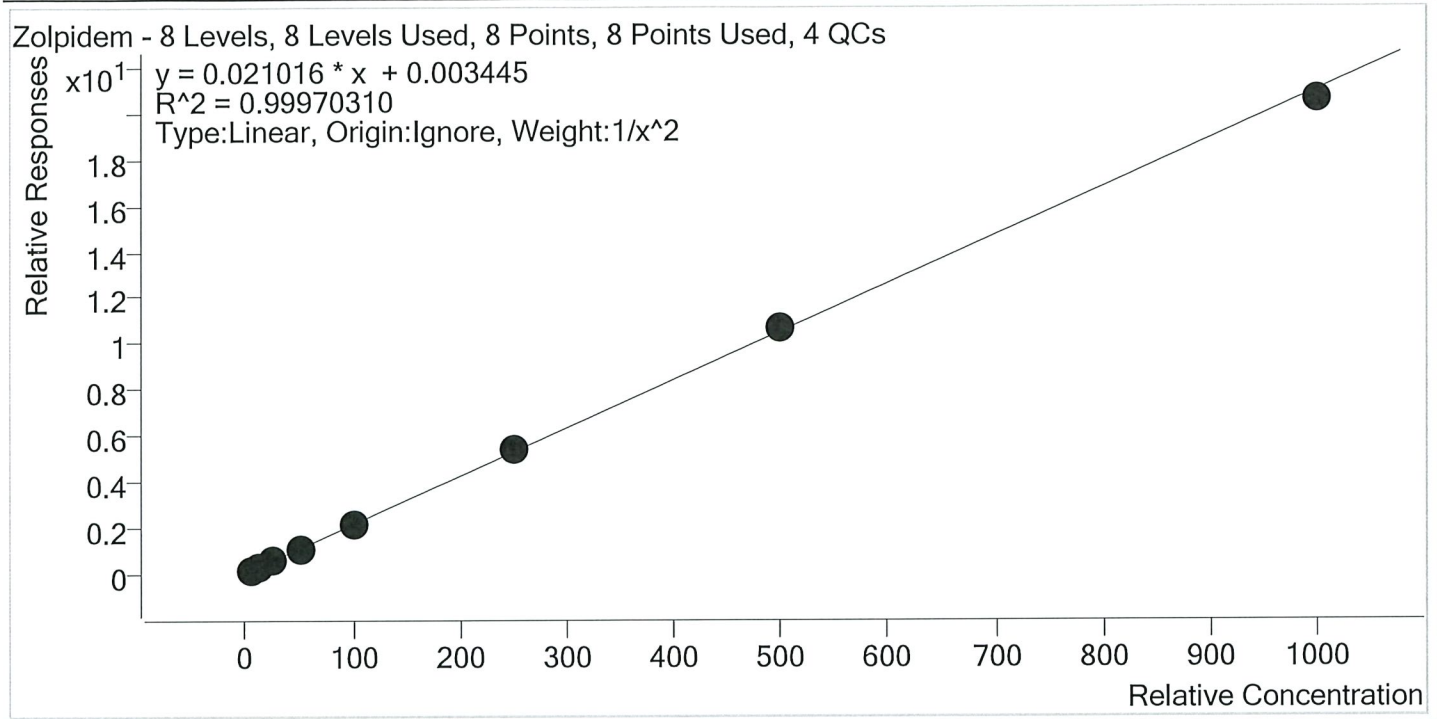| Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2- 10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	50.8	101.7
p1 Cal 5-100ng	5	✓	100.0	98.9	98.9
p1 Cal 6-250ng	6	✓	250.0	252.4	100.9
p1 Cal 7-500ng	7	✓	500.0	510.3	102.1
p1 Cal 8-1000ng	8	✓	1000.0	980.4	98.0

Generated at 2:48 PM on 3/27/2020

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Cal 1-5ng.d
Type	Cal	**Sample**	p1 Cal 1-5ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-A1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 11:34:17 AM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 1-5ng.d (p1 Cal 1-5ng)
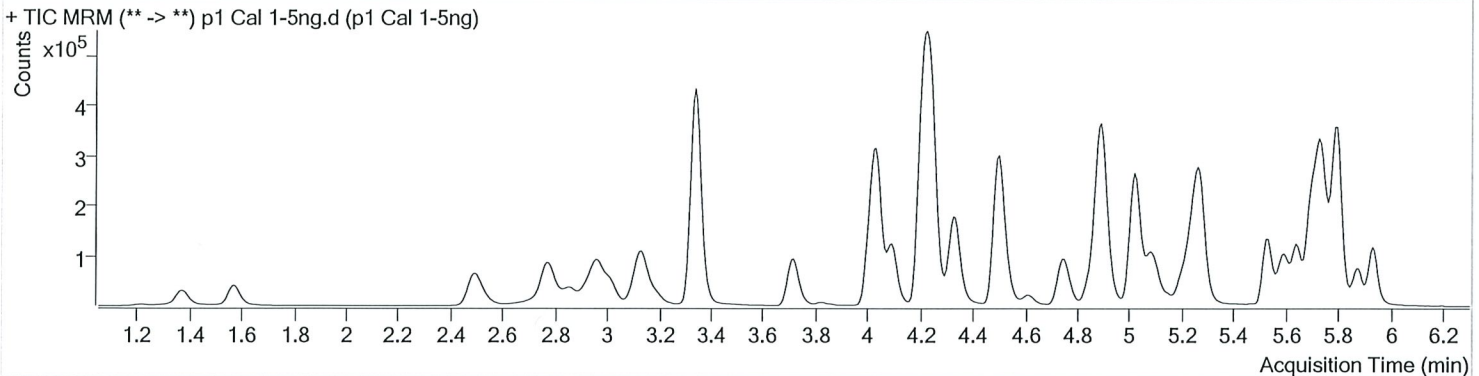
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	1011	∞	71.1	4829.15	45861	0.5101 ng/ml
7-aminoclonazepam	4.237	24613	∞	79.4	∞	191738	4.8452 ng/ml
a-hydroxyalprazolam	5.680	10288	143.48	64.1	583.19	45416	4.9484 ng/ml
alpha-PVP	4.344	49495	601.56	51.9	266.80	436586	5.4393 ng/ml
Alprazolam	5.756	39080	561.34	98.7	193.76	197991	5.3734 ng/ml
Amphetamine	3.014	65441	1424.27	52.7	116.41	145723	4.8465 ng/ml
Benzoylecgonine	3.847	1902	75.11	7.5	10.25	15219	4.9717 ng/ml
Buprenorphine	5.862	922	26.37	21.4 **High**	∞	54722	0.7248 ng/ml
Bupropion	4.766	36209	790.05	58.7	131.00	253699	5.0928 ng/ml
Carisoprodol	5.705	33623	6870.83	53.5	58.17	320219	5.0332 ng/ml
Citalopram	5.209	17299	706.03	40.0	∞	152980	5.1144 ng/ml
Clonazepam	5.593	46127	1153.22	33.3	377.38	106757	5.0183 ng/ml
Cocaine	4.243	53622	484.45	46.3	2448.12	830477	5.2690 ng/ml
Codeine	2.543	6498	2107.45	101.5	5153.96	57733	4.9959 ng/ml
Cyclobenzaprine	5.617	12437	6385.51	9.6	40.84	90808	5.0994 ng/ml
Dextromethorphan	5.252	9404	305.93	80.9	273.27	85739	5.1760 ng/ml
Dextrorphan	4.093	10574	88598.96	214.0	926.80	272119	5.0879 ng/ml
Diazepam	5.941	25379	604.86	89.4	∞	238702	4.9954 ng/ml
Dihydrocodeine	2.521	16174	2114.12	66.7	2961.83	175539	4.8775 ng/ml
Diphenhydramine	5.272	38859	1222.93	34.1	344.76	571407	5.4567 ng/ml
Doxylamine	4.514	97992	14372.49	96.0	∞	809972	5.0335 ng/ml
EDDP	5.244	26852	791.06	43.0	533.06	289511	5.0006 ng/ml
Fentanyl	5.086	1215	93.26	72.1	6531.65	135260	0.5065 ng/ml
Fluoxetine	5.702	13075	11702.23	9.6	∞	110464	5.0415 ng/ml
Hydrocodone	2.991	18857	102.24	39.7	107.07	231790	4.9342 ng/ml
Hydromorphone	1.581	15354	∞	79.2	207.92	111169	4.9953 ng/ml
Ketamine	4.026	47552	5162.33	37.5	287.45	419482	4.9701 ng/ml
Lamotrigine	4.254	4493	351.99	81.9	636.69	419482	4.7721 ng/ml
Lorazepam	5.734	36573	∞	56.9	262.71	106757	3.9718 ng/ml
Meprobamate	4.875	16522	1341.44	25.3	204.07	168215	4.9231 ng/ml
Methadone	5.648	22765	1276.02	58.3	229.20	226016	5.3921 ng/ml
Methamphetamine	3.188	39098	42.82	43.2	307.93	248116	5.0638 ng/ml
Metoprolol	4.306	7279	24622.97	103.5	478.39	1035445	5.0289 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	34670	7842.40	50.1	12912.46	436586	4.9430 ng/ml
Mitragynine	5.220	3548	6365.18	34.6	1389.91	226016	4.9390 ng/ml
Morphine	1.226	2390	521.50	26.0	126.38	4676	4.9384 ng/ml
Nordiazepam	5.881	23447	2047.99	56.8	3163.79	143789	5.0353 ng/ml
Norfentanyl	4.061	7341	1276.74	38.0	220.00	617649	0.5230 ng/ml
Norhydrocodone	3.039	1743	45.24	44.3	19.74	33956	5.2938 ng/ml
Noroxycodone	2.883	17709	728.44	47.4	718.74	105024	5.0446 ng/ml
O-desmethyl-tramadol	3.348	111634	1550.20	6.0	147.95	1171824	5.0578 ng/ml
Oxazepam	5.738	42691	672.31	69.7	185.54	500717	4.9717 ng/ml
Oxycodone	2.800	36233	504.39	32.5	566.71	334393	4.9769 ng/ml
Oxymorphone	1.376	13778	195.98	49.6	177.21	94226	4.9677 ng/ml
Phentermine	3.745	12247	261.91	3.0	15.20	289379	4.9307 ng/ml
Promethazine	5.534	28615	1185.98	31.7	819.50	250771	5.4735 ng/ml
Quetiapine	5.551	21307	∞	58.9	∞	54817	5.0683 ng/ml
Sertraline	5.770	7340	154.97	85.5	5392.79	60870	5.6818 ng/ml
Temazepam	5.805	68381	342.04	28.9	184.38	714912	5.1095 ng/ml
Tramadol	4.226	107739	2186.67	3.4	1495.09	1035445	4.9768 ng/ml
Trazodone	5.154	25705	55444.76	81.6	44271.63	216188	4.9659 ng/ml
Venlafaxine	5.020	67485	485.92	35.8	139.26	699043	5.5113 ng/ml
Zolpidem	4.911	110356	2992.90	30.9	12831.99	1011599	5.0269 ng/ml

AM #28 Multi-Drug Quant. Results

Instrument	Falco	**Data File**	p1 Cal 2- 10ng.d
Type	Cal	**Sample**	p1 Cal 2- 10ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-B1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 11:45:01 AM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 2- 10ng.d (p1 Cal 2- 10ng)
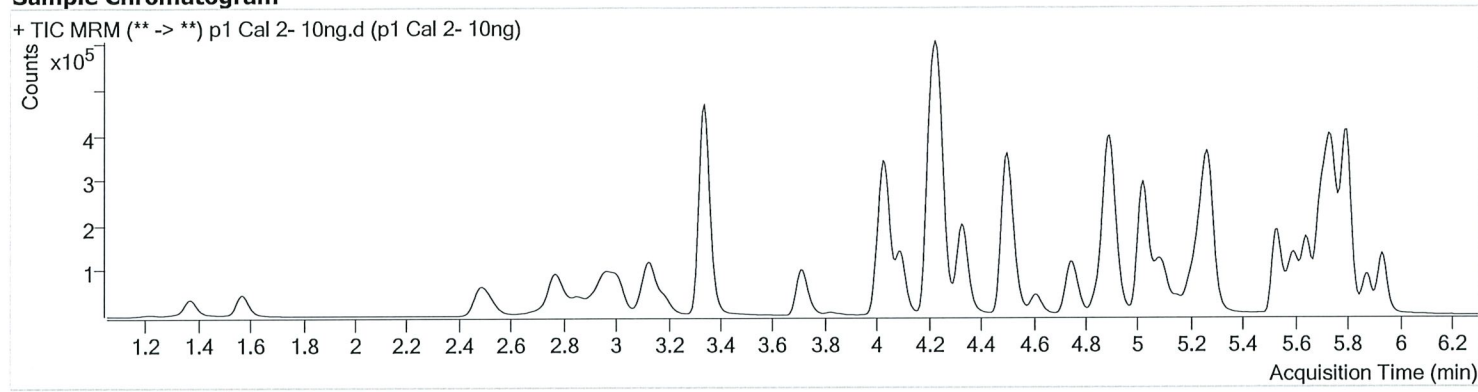
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	1948	5107.90	76.2	493.83	45702	0.9679 ng/ml
7-aminoclonazepam	4.237	49270	∞	79.8	30378.20	194374	10.3042 ng/ml
a-hydroxyalprazolam	5.680	20818	920.79	65.0	982.90	45910	10.1831 ng/ml
alpha-PVP	4.344	96235	9178.24	51.0	382.75	433206	10.1954 ng/ml
Alprazolam	5.756	76131	1416.07	104.3	352.68	194124	10.2543 ng/ml
Amphetamine	3.007	132444	837.47	53.7	1514.02	153630	10.2195 ng/ml
Benzoylecgonine	3.847	3773	1278.61	8.6	25.49	14716	10.2145 ng/ml
Buprenorphine	5.855	1724	19.26	13.9	24.20	68036	1.0186 ng/ml
Bupropion	4.766	78606	29876.17	57.8	409.52	281550	9.9329 ng/ml
Carisoprodol	5.705	62801	1466.06	58.3	103.47	316507	9.7649 ng/ml
Citalopram	5.202	41003	1236.84	40.6	27513.72	188026	9.8946 ng/ml
Clonazepam	5.593	89684	4343.55	34.0	765.43	109202	9.8302 ng/ml
Cocaine	4.237	107501	5419.66	44.8	25036.85	833235	10.1815 ng/ml
Codeine	2.543	12338	261.20	102.7	280.85	56653	9.9330 ng/ml
Cyclobenzaprine	5.617	29752	170547.49	9.6	82.22	116825	9.7061 ng/ml
Dextromethorphan	5.245	22840	160.17	78.4	185.00	106580	9.9397 ng/ml
Dextrorphan	4.093	22171	1502.72	204.4	49880.23	288464	10.0642 ng/ml
Diazepam	5.941	50824	1045.65	87.8	1020.78	240396	9.9866 ng/ml
Dihydrocodeine	2.514	31519	6146.56	67.6	6850.78	174285	10.1807 ng/ml
Diphenhydramine	5.272	94287	175.05	33.4	909.37	702901	10.1549 ng/ml
Doxylamine	4.514	196015	20097.69	98.4	70573.52	852581	9.7446 ng/ml
EDDP	5.244	59535	530.50	41.7	1260.77	321887	10.0475 ng/ml
Fentanyl	5.086	2941	∞	64.6	145.81	167108	0.9884 ng/ml
Fluoxetine	5.702	34137	8092.85	7.9	6339.42	141029	10.3309 ng/ml
Hydrocodone	2.991	35812	146.95	41.7	101.50	233786	10.0482 ng/ml
Hydromorphone	1.581	28980	401.65	78.7	282.27	108979	9.8904 ng/ml
Ketamine	4.026	92662	1901.68	37.1	1210.04	423320	10.0050 ng/ml
Lamotrigine	4.254	9112	1305.19	78.0	∞	423320	10.5037 ng/ml
Lorazepam	5.734	73079	∞	56.5	344.63	109202	10.0034 ng/ml
Meprobamate	4.875	32211	2942.68	26.6	239.94	168707	10.0734 ng/ml
Methadone	5.648	57696	872.90	55.6	222.79	284791	10.1876 ng/ml
Methamphetamine	3.188	73054	507.22	42.4	377.82	283694	9.5190 ng/ml
Metoprolol	4.306	14144	2495.78	97.4	936.61	1018357	9.9502 ng/ml

AM #28 Multi-Drug Quant. Results

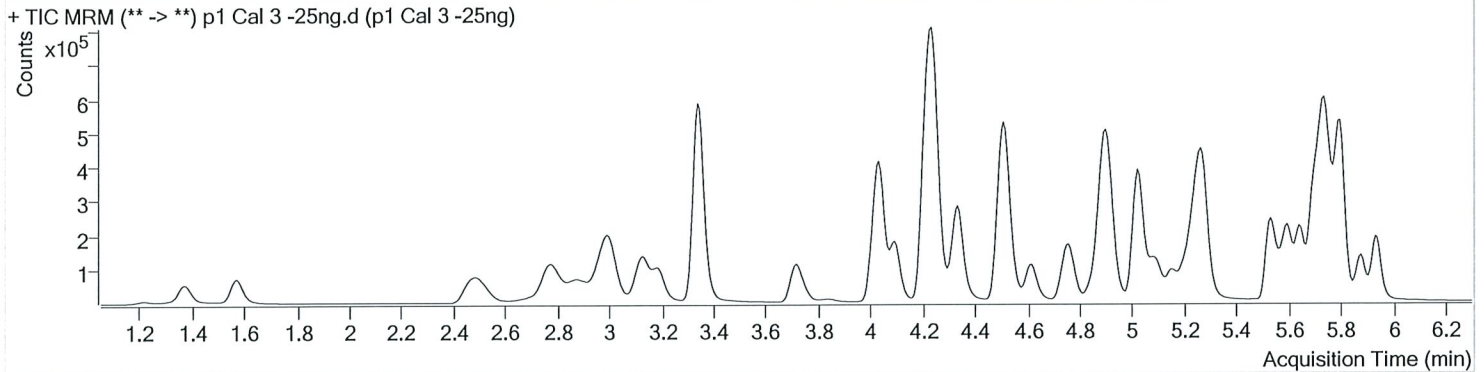| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.609	83243	5667.51	49.0	∞	433206	10.5232 ng/ml
Mitragynine	5.220	8806	3410.60	41.1	10830.67	284791	9.9780 ng/ml
Morphine	1.220	4339	1429.06	25.6	75.07	4383	9.9934 ng/ml
Norbuprenorphine	4.976	203	14.36	91.1	62.32	8449	0.9747 ng/ml
Nordiazepam	5.881	45855	1238.74	57.0	1904.55	147242	9.8241 ng/ml
Norfentanyl	4.061	13863	205.17	38.2	95.80	628231	0.9423 ng/ml
Norhydrocodone	3.032	3274	58.78	42.1	27.61	34452	9.3697 ng/ml
Noroxycodone	2.876	33616	432.75	49.5	12.79	104768	9.8204 ng/ml
O-desmethyl-tramadol	3.348	216726	900.71	6.0	193.37	1171301	9.9211 ng/ml
Oxazepam	5.738	85143	1287.90	70.5	432.69	508796	10.1461 ng/ml
Oxycodone	2.800	72436	729.25	31.5	519.14	340731	10.0048 ng/ml
Oxymorphone	1.376	27462	379.05	48.9	236.18	99022	9.8346 ng/ml
Phentermine	3.745	25610	943.60	2.6	24.35	311794	10.0179 ng/ml
Promethazine	5.534	68847	1214.18	29.7	1053.96	321253	9.9464 ng/ml
Quetiapine	5.551	47976	791.40	62.8	208.82	65660	9.6519 ng/ml
Sertraline	5.770	17550	145.60	92.5	45023.87	78884	9.9403 ng/ml
Temazepam	5.805	131822	3898.75	30.0	110.09	726449	9.7408 ng/ml
Tramadol	4.219	198052	1260.23	3.3	85.24	1018357	9.9831 ng/ml
Trazodone	5.154	59288	901.04	78.5	32394.80	255925	9.9557 ng/ml
Venlafaxine	5.020	131485	3161.18	36.5	449.81	701383	10.1851 ng/ml
Zolpidem	4.911	219271	∞	30.5	5080.29	1034949	9.9171 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Cal 3 -25ng.d
Type	Cal	**Sample**	p1 Cal 3 -25ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-C1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 11:55:37 AM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 3 -25ng.d (p1 Cal 3 -25ng)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	5071	2013.10	69.4	2637.99	46414	2.4484 ng/ml
7-aminoclonazepam	4.237	123304	11420.34	80.9	∞	196484	26.6258 ng/ml
a-hydroxyalprazolam	5.680	50852	807.03	65.8	442.66	46838	24.7680 ng/ml
alpha-PVP	4.344	238599	3087.40	51.7	899.74	442578	24.0540 ng/ml
Alprazolam	5.756	184995	1188.57	106.3	1371.65	199284	23.6872 ng/ml
Amphetamine	3.001	351766	15271.71	54.2	3060.35	167130	26.3855 ng/ml
Benzoylecgonine	3.847	9367	∞	7.5	45.32	15265	24.4644 ng/ml
Buprenorphine	5.855	4296	139.38	17.3	∞	64560	2.4441 ng/ml
Bupropion	4.766	194755	763.96	58.9	933.17	280326	24.6713 ng/ml
Carisoprodol	5.705	163650	8309.69	53.6	378.40	324915	25.2260 ng/ml
Citalopram	5.202	97242	2604.24	41.0	∞	176955	24.9862 ng/ml
Clonazepam	5.593	227019	673.75	34.6	57437.94	110548	25.0663 ng/ml
Cocaine	4.243	267265	34068.88	45.3	12385.15	842786	24.5191 ng/ml
Codeine	2.529	31515	648.06	102.9	2173.93	58284	25.0871 ng/ml
Cyclobenzaprine	5.617	68550	∞	10.2	56.00	108368	24.4953 ng/ml
Dextromethorphan	5.252	54097	181.04	78.9	130.17	100798	24.6198 ng/ml
Dextrorphan	4.093	52851	730.81	210.5	1916.21	281958	24.5468 ng/ml
Diazepam	5.941	126570	1450.89	87.9	1680.92	238669	25.1314 ng/ml
Dihydrocodeine	2.494	80036	299.24	66.8	3273.96	180339	25.9012 ng/ml
Diphenhydramine	5.272	227479	6777.14	33.6	7326.96	682752	24.2945 ng/ml
Doxylamine	4.514	503597	65239.73	97.5	608580.78	876863	24.6404 ng/ml
EDDP	5.244	151047	545.78	42.0	6042.12	337380	24.4290 ng/ml
Fentanyl	5.086	6756	580.57	62.9	1030.36	157964	2.3966 ng/ml
Fluoxetine	5.702	75470	239.44	8.8	∞	129233	24.9520 ng/ml
Hydrocodone	2.985	88746	312.55	41.8	210.09	239300	25.5454 ng/ml
Hydromorphone	1.581	74890	∞	77.0	655.42	110931	25.5616 ng/ml
Ketamine	4.033	230724	43519.84	37.8	1507.64	426043	25.3984 ng/ml
Lamotrigine	4.254	22881	1581.03	80.7	∞	426043	27.5596 ng/ml
Lorazepam	5.728	173066	∞	59.8	1250.46	110548	26.5551 ng/ml
Meprobamate	4.875	79940	211.35	26.4	286.07	168680	25.7946 ng/ml
Methadone	5.648	136428	962.07	55.0	∞	269016	24.5244 ng/ml
Methamphetamine	3.188	208423	656.40	42.3	360.26	337885	25.5390 ng/ml
Metoprolol	4.306	35188	∞	98.6	1699.36	1035490	24.3679 ng/ml

AM #28 Multi-Drug Quant. Results

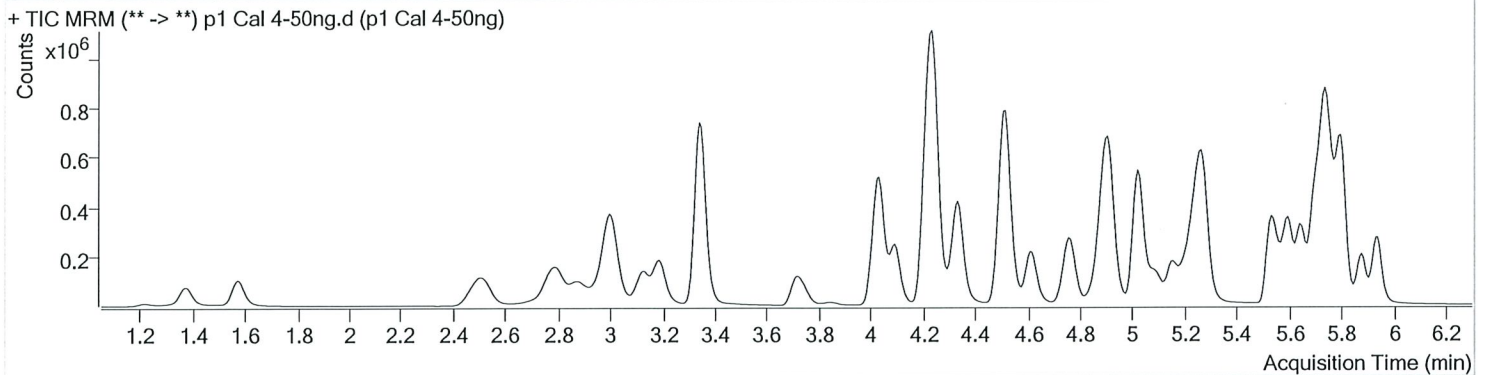| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	210028	∞	49.7	12403.93	442578	24.5005 ng/ml
Mitragynine	5.220	21119	2387.18	39.6	9616.47	269016	25.7310 ng/ml
Morphine	1.220	11505	1974.81	22.1	929.41	4522	26.3988 ng/ml
Norbuprenorphine	4.976	449	14.48	73.2	70.99	7776	2.5997 ng/ml
Nordiazepam	5.881	115542	1886.72	56.8	5756.58	148098	24.9550 ng/ml
Norfentanyl	4.061	36269	605.39	36.6	418.36	639718	2.3685 ng/ml
Norhydrocodone	3.032	8230	188.55	43.4	128.20	34454	22.7842 ng/ml
Noroxycodone	2.869	85230	710.83	48.9	636.61	107148	24.7080 ng/ml
O-desmethyl-tramadol	3.348	541722	21047.97	6.0	700.05	1205152	24.2500 ng/ml
Oxazepam	5.738	201481	8433.72	72.3	∞	513070	24.3517 ng/ml
Oxycodone	2.794	183730	2688.45	31.9	1359.69	348625	25.1714 ng/ml
Oxymorphone	1.376	70495	∞	47.7	832.81	99073	25.9527 ng/ml
Phentermine	3.751	68350	2124.61	2.6	70.38	333542	25.7059 ng/ml
Promethazine	5.534	158463	10937.83	31.3	837.94	300351	23.9312 ng/ml
Quetiapine	5.551	123027	487.03	60.4	∞	64488	25.4282 ng/ml
Sertraline	5.770	39488	1196.02	93.1	41862.41	71784	23.6338 ng/ml
Temazepam	5.805	333882	14238.23	29.9	689.71	743237	24.1922 ng/ml
Tramadol	4.226	488649	37402.20	3.4	∞	1035490	25.3409 ng/ml
Trazodone	5.154	152046	31174.16	79.5	∞	257234	25.8607 ng/ml
Venlafaxine	5.020	325631	35414.93	36.9	864.63	708354	24.1787 ng/ml
Zolpidem	4.911	550455	719.45	31.3	7622.05	1054697	24.6695 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Cal 4-50ng.d
Type	Cal	**Sample**	p1 Cal 4-50ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-D1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 12:06:12 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 4-50ng.d (p1 Cal 4-50ng)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	10132	2965.49	72.5	2477.35	44470	5.0839 ng/ml
7-aminoclonazepam	4.237	223149	14598.17	81.0	573.73	186810	51.3643 ng/ml
a-hydroxyalprazolam	5.680	98216	970.40	63.0	1562.92	43846	51.3955 ng/ml
alpha-PVP	4.344	494072	41609.60	51.2	546.89	444367	49.0961 ng/ml
Alprazolam	5.756	361999	1315.70	101.6	2770.62	183542	49.8453 ng/ml
Amphetamine	3.007	709225	9873.34	53.3	9336.20	166970	54.2628 ng/ml
Benzoylecgonine	3.847	17779	2171.23	8.3	65.70	14178	50.0072 ng/ml
Buprenorphine	5.855	9613	227.89	17.4	∞	69467	4.9296 ng/ml
Bupropion	4.766	407187	31873.04	58.3	1038.68	284417	50.8074 ng/ml
Carisoprodol	5.705	305228	1020.66	54.2	446.51	296234	51.9031 ng/ml
Citalopram	5.202	202326	436.82	40.7	745.80	182898	50.3327 ng/ml
Clonazepam	5.593	436562	8051.18	33.7	121451.87	103366	51.8944 ng/ml
Cocaine	4.243	530213	70565.46	45.1	12120.57	821536	49.5405 ng/ml
Codeine	2.536	61909	4525.79	102.0	1997.83	56067	51.5275 ng/ml
Cyclobenzaprine	5.617	139194	215376.85	9.5	87.64	109345	49.5573 ng/ml
Dextromethorphan	5.252	110893	11244.58	80.5	8786.41	99829	50.7630 ng/ml
Dextrorphan	4.093	109520	4256.44	209.8	29933.02	284581	50.3992 ng/ml
Diazepam	5.941	245616	1997.53	88.3	3531.73	230886	50.4669 ng/ml
Dihydrocodeine	2.508	155824	2107.25	67.8	5099.64	173693	53.0011 ng/ml
Diphenhydramine	5.272	469607	1039.33	34.0	906.27	691369	48.8785 ng/ml
Doxylamine	4.514	970893	224113.74	96.2	73232.78	820543	50.9762 ng/ml
EDDP	5.244	313884	540.39	41.9	583.71	333742	51.4022 ng/ml
Fentanyl	5.086	14599	576.62	62.7	4464.94	158552	5.1554 ng/ml
Fluoxetine	5.702	150980	83072.10	8.8	620.20	131237	49.1740 ng/ml
Hydrocodone	2.991	176977	266.09	41.7	∞	239398	51.7739 ng/ml
Hydromorphone	1.581	140359	∞	77.8	741.36	104252	51.2699 ng/ml
Ketamine	4.026	458311	48860.79	38.5	654.19	422345	51.3327 ng/ml
Lamotrigine	4.254	42084	2118.25	79.7	2195.09	422345	51.9077 ng/ml
Lorazepam	5.728	329114	579.53	57.9	3355.35	103366	56.4418 ng/ml
Meprobamate	4.875	152384	250880.92	25.6	856.10	159084	52.6811 ng/ml
Methadone	5.648	279069	1104.44	55.4	609.41	274658	48.4825 ng/ml
Methamphetamine	3.188	406868	1748.06	42.8	3409.90	333246	52.4701 ng/ml
Metoprolol	4.306	73046	15500.97	97.3	∞	1031320	50.8053 ng/ml

AM #28 Multi-Drug Quant. Results

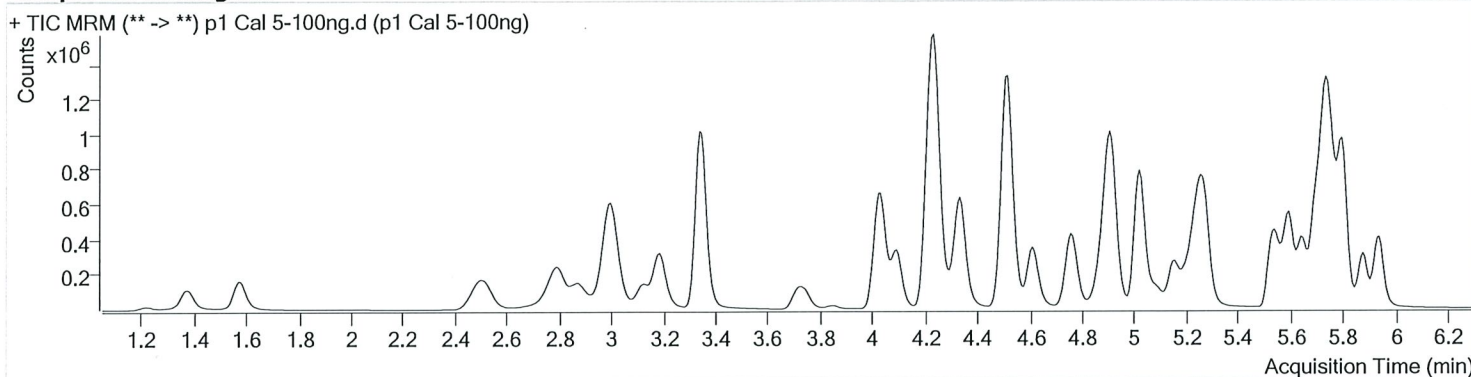| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	425894	31997.72	49.4	35199.94	444367	48.4496 ng/ml
Mitragynine	5.220	44923	13304.55	37.8	41987.56	274658	53.8889 ng/ml
Morphine	1.220	20402	325.94	23.6	443.91	4227	50.4903 ng/ml
Norbuprenorphine	4.970	893	63.43	75.5	60.97	7911	5.2494 ng/ml
Nordiazepam	5.881	227219	4306.54	57.1	∞	141994	51.4250 ng/ml
Norfentanyl	4.061	73553	1004.72	36.9	651.39	631591	4.8297 ng/ml
Norhydrocodone	3.039	16201	213.13	44.9	∞	33253	45.9493 ng/ml
Noroxycodone	2.876	170186	3186.33	47.8	1381.27	103379	51.3979 ng/ml
O-desmethyl-tramadol	3.348	1047441	2262.20	6.0	1001.28	1140721	49.6448 ng/ml
Oxazepam	5.738	382631	5628.64	70.5	∞	465083	51.4591 ng/ml
Oxycodone	2.794	359637	2020.93	31.7	5511.74	335628	51.4369 ng/ml
Oxymorphone	1.376	132707	∞	48.1	∞	91466	53.3975 ng/ml
Phentermine	3.745	139655	1055.09	2.6	226.16	332650	53.1634 ng/ml
Promethazine	5.534	334155	15444.94	30.5	761.26	297629	50.4976 ng/ml
Quetiapine	5.551	245089	14886.45	60.1	408310.28	64800	50.5520 ng/ml
Sertraline	5.770	84942	4911.26	91.2	574.61	72724	49.4595 ng/ml
Temazepam	5.805	627160	3640.26	29.5	1208.95	686860	49.2268 ng/ml
Tramadol	4.219	975057	2853.77	3.4	429.65	1031320	51.5563 ng/ml
Trazodone	5.154	302770	147460.76	79.1	585.31	261882	50.8651 ng/ml
Venlafaxine	5.020	673706	1786.50	36.0	3279.69	715778	48.9299 ng/ml
Zolpidem	4.911	1085022	61358.83	30.2	1525.15	1012406	50.8310 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Cal 5-100ng.d
Type	Cal	**Sample**	p1 Cal 5-100ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-E1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 12:16:46 PM		
Sample Info.			

Sample Chromatogram

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

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	18100	23093.13	73.5	1162.01	42395	9.5091 ng/ml
7-aminoclonazepam	4.231	398611	10393.57	81.9	20387.45	167925	102.8169 ng/ml
a-hydroxyalprazolam	5.680	173676	1093.42	63.8	1338.29	39864	100.2226 ng/ml
alpha-PVP	4.337	919740	61792.63	50.5	841.23	416241	97.0943 ng/ml
Alprazolam	5.756	636518	2255.07	104.4	3831.57	166451	96.2422 ng/ml
Amphetamine	3.001	1241876	52882.58	53.7	10206.58	154063	103.8700 ng/ml
Benzoylecgonine	3.847	32389	2870.31	7.9	211.14	13146	98.2675 ng/ml
Buprenorphine	5.855	13861	387.97	17.7	∞	52796	9.2253 ng/ml
Bupropion	4.766	729323	38145.09	58.4	1211.37	262337	98.6327 ng/ml
Carisoprodol	5.705	539205	∞	54.6	819.68	274781	99.1068 ng/ml
Citalopram	5.202	316143	392.61	40.5	8251.18	147666	97.4440 ng/ml
Clonazepam	5.593	784914	2483.17	34.0	276836.46	96036	100.7273 ng/ml
Cocaine	4.237	935901	65530.03	44.8	50847.86	748424	95.6625 ng/ml
Codeine	2.529	111193	2306.73	103.1	7758.68	51704	100.6280 ng/ml
Cyclobenzaprine	5.617	204281	21847.52	9.4	349.75	80805	98.6748 ng/ml
Dextromethorphan	5.245	168214	158.64	79.5	5660.76	78155	98.1868 ng/ml
Dextrorphan	4.093	196548	4180.40	207.2	3181.01	260117	98.9559 ng/ml
Diazepam	5.941	440919	2081.49	88.8	3701.40	211981	98.7268 ng/ml
Dihydrocodeine	2.501	286685	4862.18	66.9	3270.69	162347	104.9378 ng/ml
Diphenhydramine	5.272	730676	24295.91	33.2	∞	547043	95.5116 ng/ml
Doxylamine	4.514	1826910	∞	97.5	876672.90	797954	98.8224 ng/ml
EDDP	5.244	546719	3698.88	41.9	230234.48	302979	98.6922 ng/ml
Fentanyl	5.086	20435	6223.15	64.2	1080.68	119824	9.5450 ng/ml
Fluoxetine	5.702	212883	552.58	9.0	∞	93011	97.8517 ng/ml
Hydrocodone	2.985	319606	∞	39.6	266.76	212585	106.1794 ng/ml
Hydromorphone	1.581	258755	923.13	78.7	∞	100093	98.7153 ng/ml
Ketamine	4.026	821010	100572.25	38.1	940.94	390289	99.9203 ng/ml
Lamotrigine	4.254	71896	3561.52	81.7	∞	390289	96.7295 ng/ml
Lorazepam	5.728	568837	∞	57.9	∞	96036	107.0243 ng/ml
Meprobamate	4.875	272903	29862.66	25.5	3341.04	147917	101.9631 ng/ml
Methadone	5.648	427889	939.53	54.5	73835.65	208664	97.1855 ng/ml
Methamphetamine	3.188	744339	1369.79	42.9	4922.28	313461	103.9026 ng/ml
Metoprolol	4.306	132300	25918.05	96.1	3369.46	956189	99.2635 ng/ml

AM #28 Multi-Drug Quant. Results

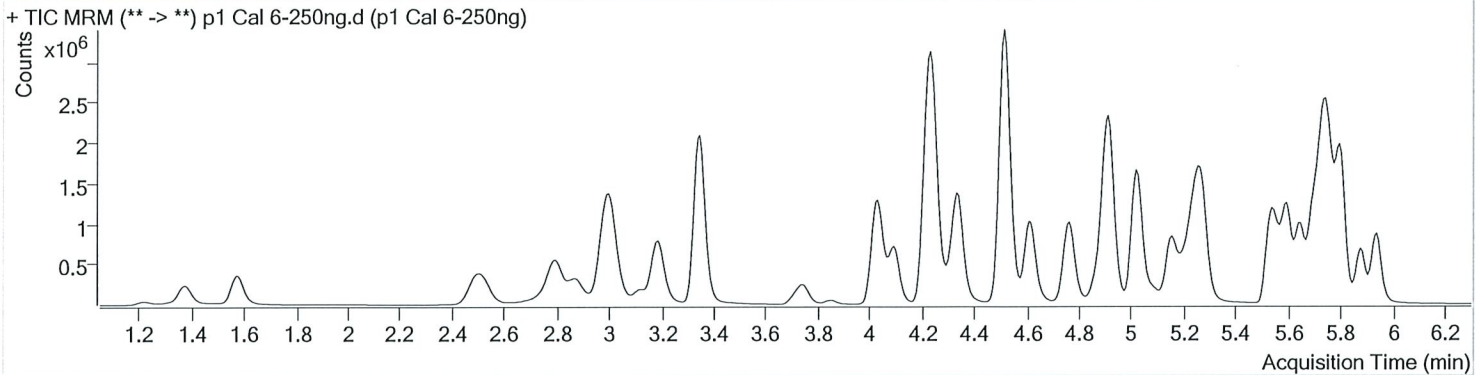| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.609	683226	43471.50	49.1	34201.74	416241	82.2540 ng/ml
Mitragynine	5.220	63113	7485.42	37.8	97842.68	208664	99.8725 ng/ml
Morphine	1.220	38746	755.87	23.7	1036.87	4061	100.2633 ng/ml
Norbuprenorphine	4.976	1342	48.24	69.5	42.78	6257	10.1424 ng/ml
Nordiazepam	5.881	404114	1075.50	57.7	1523.38	132814	97.9886 ng/ml
Norfentanyl	4.061	130224	32042.22	37.8	3324.40	580855	9.2668 ng/ml
Norhydrocodone	3.032	28669	124.23	44.1	345.61	28787	93.3950 ng/ml
Noroxycodone	2.869	295400	2153.16	50.8	3848.04	93243	99.1384 ng/ml
O-desmethyl-tramadol	3.348	1924561	75583.08	6.0	2466.14	1072381	97.1290 ng/ml
Oxazepam	5.738	678944	∞	71.3	∞	420545	101.3670 ng/ml
Oxycodone	2.794	660601	3384.94	32.1	1638.90	315557	100.7296 ng/ml
Oxymorphone	1.376	240366	∞	46.8	507.29	87706	101.2721 ng/ml
Phentermine	3.745	247769	6296.68	2.4	431.06	307398	102.5070 ng/ml
Promethazine	5.527	483732	676.47	30.8	9538.25	223768	96.8792 ng/ml
Quetiapine	5.551	392675	11770.53	60.2	6549.30	53412	98.3937 ng/ml
Sertraline	5.770	120910	1283.42	88.9	36794.18	53459	95.1735 ng/ml
Temazepam	5.805	1157029	26449.83	30.0	817.74	643810	96.9409 ng/ml
Tramadol	4.219	1724766	3239.44	3.4	2301.44	956189	99.0740 ng/ml
Trazodone	5.154	479306	∞	77.7	1697.51	208782	101.2938 ng/ml
Venlafaxine	5.020	1242310	39261.03	36.3	6478.14	672628	95.4861 ng/ml
Zolpidem	4.911	1945982	641.68	30.5	∞	934581	98.9113 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update 3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Cal 6-250ng.d
Type	Cal	**Sample**	p1 Cal 6-250ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-F1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 12:27:20 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 6-250ng.d (p1 Cal 6-250ng)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	50003	849.26	71.1	1171.06	43810	25.3874 ng/ml
7-aminoclonazepam	4.237	864069	21687.13	81.8	28463.09	153168	245.3894 ng/ml
a-hydroxyalprazolam	5.680	419254	1862.57	61.5	3352.14	37999	254.2420 ng/ml
alpha-PVP	4.344	2310204	102081.77	51.0	1917.78	415076	243.8335 ng/ml
Alprazolam	5.756	1511447	3543.27	102.7	4369.08	155484	243.9919 ng/ml
Amphetamine	3.001	3043191	38389.28	52.7	17951.66	159495	247.2236 ng/ml
Benzoylecgonine	3.847	91614	11289.57	8.0	840.13	14628	249.8252 ng/ml
Buprenorphine	5.862	41539	2400.61	17.0	4054.88	58370	24.7639 ng/ml
Bupropion	4.766	1886726	6229.07	58.3	28885.86	269136	248.6661 ng/ml
Carisoprodol	5.705	1223821	746444.54	54.7	938.43	247583	250.0847 ng/ml
Citalopram	5.202	896382	52288.71	40.9	546.66	162337	251.3738 ng/ml
Clonazepam	5.593	1869508	7607.74	33.3	1033.42	89814	257.0342 ng/ml
Cocaine	4.243	2339988	113366.18	44.7	456341.05	717294	249.0013 ng/ml
Codeine	2.529	283028	200.75	100.8	13564.71	51614	257.0220 ng/ml
Cyclobenzaprine	5.617	601066	75409.97	9.9	493.31	93694	250.7965 ng/ml
Dextromethorphan	5.245	467961	1026.41	80.2	858.41	86696	245.9661 ng/ml
Dextrorphan	4.093	509038	1890.21	210.4	2088.75	267415	249.2930 ng/ml
Diazepam	5.941	1103486	2506.20	86.2	7574.56	205268	255.2494 ng/ml
Dihydrocodeine	2.494	738776	6444.85	67.5	16845.08	169539	259.8741 ng/ml
Diphenhydramine	5.272	2106109	86669.09	33.2	14755.55	612972	244.7092 ng/ml
Doxylamine	4.514	5023088	179466.37	96.7	196915.25	854706	253.9825 ng/ml
EDDP	5.244	1415153	2126.63	42.4	752.56	310804	249.1434 ng/ml
Fentanyl	5.086	65350	823.39	63.0	111658.04	146729	24.9218 ng/ml
Fluoxetine	5.702	585710	875.85	9.1	63032.43	100977	248.0113 ng/ml
Hydrocodone	2.985	799482	∞	40.4	∞	219904	257.9805 ng/ml
Hydromorphone	1.581	654507	∞	78.0	687.14	99322	252.0899 ng/ml
Ketamine	4.026	2160067	144074.25	38.1	9488.78	407114	252.6911 ng/ml
Lamotrigine	4.261	171101	16442.16	79.4	28647.00	407114	221.8469 ng/ml
Lorazepam	5.728	1159293	∞	57.2	8763.84	89814	236.0036 ng/ml
Meprobamate	4.875	636320	34823.65	26.1	9638.25	141368	249.5256 ng/ml
Methadone	5.648	1265671	1021.10	53.9	2541.70	242585	246.2678 ng/ml
Methamphetamine	3.188	1936671	33910.20	42.6	6643.41	331280	258.6673 ng/ml
Metoprolol	4.306	332580	∞	96.6	6920.27	933435	255.6385 ng/ml

AM #28 Multi-Drug Quant. Results

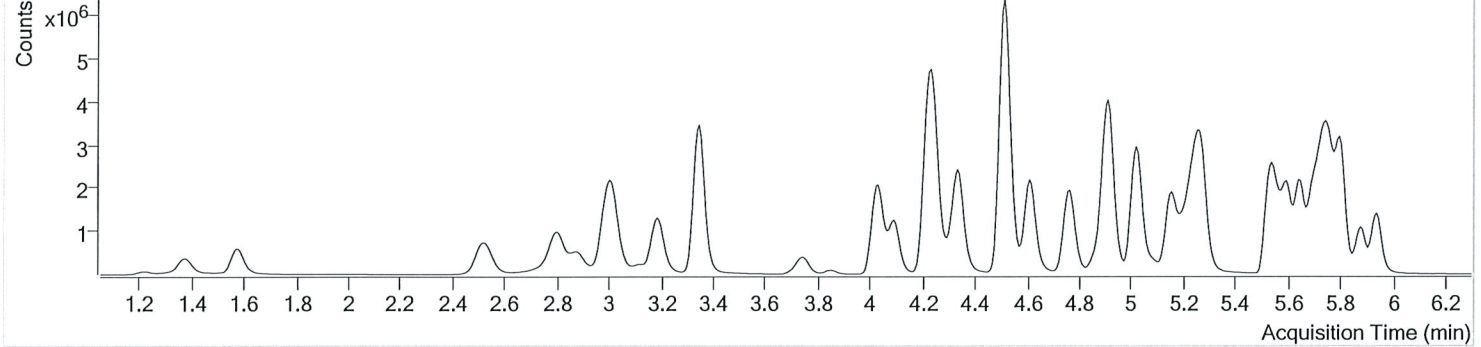| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.616	2034872	23071.39	49.7	110873.44	415076	243.6557 ng/ml
Mitragynine	5.220	186600	17045.47	39.1	176098.07	242585	254.3911 ng/ml
Morphine	1.220	97248	2719.06	23.8	328.04	3918	261.5538 ng/ml
Norbuprenorphine	4.976	3695	1946.70	79.0	277.31	7322	24.1007 ng/ml
Nordiazepam	5.881	1003104	2211.23	57.2	4838.04	127538	253.6533 ng/ml
Norfentanyl	4.061	341408	58968.59	37.6	1876.56	581973	24.1939 ng/ml
Norhydrocodone	3.039	70726	200.96	43.1	460.94	25391	260.3135 ng/ml
Noroxycodone	2.869	733486	798.80	49.0	339.79	91831	250.3196 ng/ml
O-desmethyl-tramadol	3.348	5051773	104410.66	5.9	22800.85	1087011	251.6868 ng/ml
Oxazepam	5.738	1451178	∞	71.1	∞	361578	252.5951 ng/ml
Oxycodone	2.794	1712398	8308.26	32.1	3968.39	330162	249.9279 ng/ml
Oxymorphone	1.376	574030	1015.81	48.0	1347.55	83112	255.9220 ng/ml
Phentermine	3.745	649905	4037.83	2.5	585.57	323835	255.9408 ng/ml
Promethazine	5.534	1433058	41106.38	31.0	2332.94	263347	243.2951 ng/ml
Quetiapine	5.551	1193852	3176.78	60.3	405.67	63926	250.1666 ng/ml
Sertraline	5.770	321595	1627.97	89.2	734.78	54620	246.7339 ng/ml
Temazepam	5.805	2910186	14950.71	29.4	∞	625594	251.0115 ng/ml
Tramadol	4.219	4298961	298764.09	3.4	1048.07	933435	254.1775 ng/ml
Trazodone	5.154	1480452	7425.96	79.7	1217.21	259160	252.4917 ng/ml
Venlafaxine	5.020	3190571	155965.76	36.5	5195.12	677173	242.7357 ng/ml
Zolpidem	4.911	5140348	∞	30.4	121727.50	968546	252.3675 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update 3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Cal 7-500ng.d
Type	Cal	**Sample**	p1 Cal 7-500ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-G1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 12:37:53 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 7-500ng.d (p1 Cal 7-500ng)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	95550	2539.43	70.7	1671.71	41478	51.2192 ng/ml
7-aminoclonazepam	4.237	1240928	34513.29	80.2	16508.85	120320	449.2535 ng/ml
a-hydroxyalprazolam	5.673	680110	2688.63	62.9	647.99	31291	501.1127 ng/ml
alpha-PVP	4.337	4329431	5155.57	50.6	60054.35	385160	491.9561 ng/ml
Alprazolam	5.756	2540803	2736.43	100.8	2785.04	125796	506.4984 ng/ml
Amphetamine	3.014	4854271	29079.50	52.6	62026.60	149918	420.2392 ng/ml
Benzoylecgonine	3.847	179282	2697.11	7.6	786.37	14409	496.3355 ng/ml
Buprenorphine	5.855	99057	1442.20	15.8	10554.80	66824	51.4294 ng/ml
Bupropion	4.766	3792444	5112.04	57.5	96686.93	267985	501.9502 ng/ml
Carisoprodol	5.705	1894947	955.20	53.6	950.28	190051	504.7379 ng/ml
Citalopram	5.202	1997693	6044.84	40.8	1204.05	181618	500.7755 ng/ml
Clonazepam	5.593	3079218	43422.58	33.3	4717.21	77824	488.8712 ng/ml
Cocaine	4.243	4069230	686106.88	43.1	84104.39	623243	498.0085 ng/ml
Codeine	2.543	470843	10362.97	101.3	64887.57	45556	484.6936 ng/ml
Cyclobenzaprine	5.610	1459916	26747.23	9.9	12250.72	112277	508.6006 ng/ml
Dextromethorphan	5.245	1029596	4460.59	78.8	832.93	93856	499.6985 ng/ml
Dextrorphan	4.093	975630	2735.28	209.3	1771.13	256687	497.7689 ng/ml
Diazepam	5.941	1910501	9423.23	87.7	15016.66	184378	492.0414 ng/ml
Dihydrocodeine	2.514	1308861	4733.38	67.3	19808.00	159689	489.3636 ng/ml
Diphenhydramine	5.272	4737105	11717.78	33.0	3075.94	675423	498.8614 ng/ml
Doxylamine	4.514	9788474	260659.91	96.4	∞	825350	512.7413 ng/ml
EDDP	5.244	2856589	52754.72	42.5	9539.26	315053	496.2081 ng/ml
Fentanyl	5.086	165784	∞	62.1	58162.03	183410	50.5751 ng/ml
Fluoxetine	5.702	1401121	∞	8.7	1444.32	119380	501.8506 ng/ml
Hydrocodone	2.985	1392459	∞	40.1	∞	205387	481.8264 ng/ml
Hydromorphone	1.581	1165746	599.94	78.3	∞	88892	501.9712 ng/ml
Ketamine	4.026	3986743	33502.44	37.7	8500.82	385209	493.3182 ng/ml
Lamotrigine	4.261	260730	13708.19	80.0	29360.04	385209	357.8349 ng/ml
Lorazepam	5.728	1443897	2768.37	57.1	∞	77824	340.2587 ng/ml
Meprobamate	4.875	997462	112731.68	25.9	15789.61	122330	452.4516 ng/ml
Methadone	5.648	2998213	114818.79	53.7	1798.65	290024	487.3155 ng/ml
Methamphetamine	3.188	3227598	2735.04	42.2	4131.23	290112	494.0313 ng/ml
Metoprolol	4.306	599441	827765.53	96.8	∞	841893	510.8780 ng/ml

AM #28 Multi-Drug Quant. Results

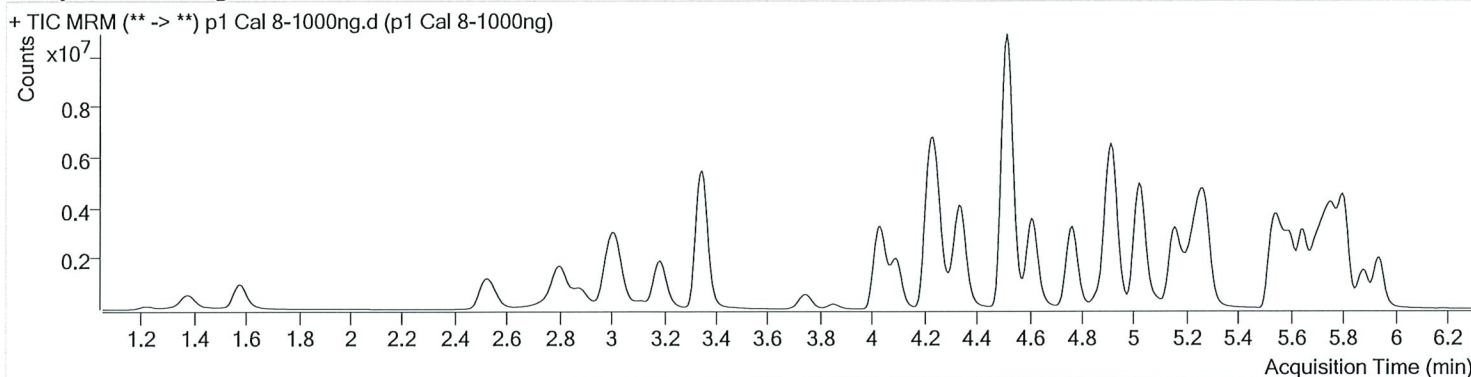| Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.609	4396858	29008.07	49.0	20230.82	385160	566.0275 ng/ml
Mitragynine	5.220	432210	249911.70	38.6	18221.22	290024	493.0911 ng/ml
Morphine	1.220	174501	1142.11	23.8	∞	3731	493.3103 ng/ml
Norbuprenorphine	4.970	8889	1302.55	83.0	499.50	8718	48.8806 ng/ml
Nordiazepam	5.881	1717352	5525.18	56.9	2846.85	110400	501.9031 ng/ml
Norfentanyl	4.061	625225	3484.52	37.0	1373.64	501865	51.3412 ng/ml
Norhydrocodone	3.039	117638	∞	45.7	203.42	21713	505.8566 ng/ml
Noroxycodone	2.876	1241252	1947.38	49.0	9260.00	77651	501.2114 ng/ml
O-desmethyl-tramadol	3.348	9216971	326559.54	5.8	17674.89	974598	512.2760 ng/ml
Oxazepam	5.738	1997778	∞	72.3	∞	256539	490.4956 ng/ml
Oxycodone	2.800	3185464	5359.20	32.0	3312.88	309028	496.9675 ng/ml
Oxymorphone	1.376	998718	∞	48.2	1193.94	77166	479.9732 ng/ml
Phentermine	3.745	1162008	6599.19	2.5	2016.54	301985	491.1606 ng/ml
Promethazine	5.527	3619999	81438.99	30.5	3385.14	329030	491.5047 ng/ml
Quetiapine	5.551	2480366	2124.38	60.5	2739.57	66979	496.1979 ng/ml
Sertraline	5.777	681700	1001.77	90.8	16782.50	58582	487.0146 ng/ml
Temazepam	5.805	5112661	2350.28	29.3	4108.95	538693	512.1742 ng/ml
Tramadol	4.219	7611133	187339.14	3.3	8159.27	841893	499.6967 ng/ml
Trazodone	5.154	3419477	∞	79.7	972.98	309762	488.2001 ng/ml
Venlafaxine	5.020	6223399	390217.31	35.8	799.72	647365	494.6998 ng/ml
Zolpidem	4.911	9522786	168577.86	29.7	1242.22	887671	510.2883 ng/ml

AM #28 Multi-Drug Quant. Results

Batch results   D:\MassHunter\Data\2020\AM 27-28\032620 AM 28 wklst 4106 TS\QuantResults\AM 28 TS.batch.bin
Calibration Last Update   3/27/2020 2:47:31 PM

Instrument	Falco	**Data File**	p1 Cal 8-1000ng.d
Type	Cal	**Sample**	p1 Cal 8-1000ng
Acq. Method	MDQ P1 01112020.m	**Operator**	Tamara Salazar
Sample Position	P5-H1	**Comment**	
Injection Volume	2		
Acq. Date-Time	3/26/2020 12:48:27 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) p1 Cal 8-1000ng.d (p1 Cal 8-1000ng)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.109	190914	5251.52	70.6	2699.77	41409	102.4876 ng/ml
7-aminoclonazepam	4.237	1430734	11220.35	81.1	54684.07	81440	765.7795 ng/ml
a-hydroxyalprazolam	5.673	1021360	∞	62.4	1168.04	24742	951.9640 ng/ml
alpha-PVP	4.344	7823600	∞	49.8	166746.20	336073	1018.3313 ng/ml
Alprazolam	5.756	3895320	∞	101.8	2647.84	97242	1004.1074 ng/ml
Amphetamine	3.014	6932875	33101.27	51.5	44214.38	130505	690.1055 ng/ml
Benzoylecgonine	3.847	381243	∞	7.8	2028.42	14753	1030.8396 ng/ml
Buprenorphine	5.855	137637	2260.85	15.8	3543.98	44307	107.6210 ng/ml
Bupropion	4.766	6459250	273060.89	58.0	9756.33	229041	1000.2465 ng/ml
Carisoprodol	5.705	2606056	1718.21	54.1	1497.23	136197	968.8851 ng/ml
Citalopram	5.202	2953494	88383.85	40.6	111986.68	134459	1000.0788 ng/ml
Clonazepam	5.593	4612067	139758.74	32.7	179565.77	59402	959.6163 ng/ml
Cocaine	4.243	6731960	166679.56	43.7	79768.61	509317	1007.8175 ng/ml
Codeine	2.550	771827	20671.49	98.8	3690.37	37337	969.7278 ng/ml
Cyclobenzaprine	5.617	1951457	670571.36	9.9	3493.73	74025	1031.4109 ng/ml
Dextromethorphan	5.245	1389066	2456.65	78.5	63916.69	62907	1005.6501 ng/ml
Dextrorphan	4.093	1639714	7662.90	211.8	161738.87	213910	1003.8842 ng/ml
Diazepam	5.941	3035431	∞	86.8	2347.53	144826	995.3130 ng/ml
Dihydrocodeine	2.514	2183086	68736.78	68.6	2319.91	154744	842.7626 ng/ml
Diphenhydramine	5.279	7009666	149321.15	32.8	23858.40	492296	1012.1331 ng/ml
Doxylamine	4.514	17707574	342785.25	96.2	403580.85	778108	984.0591 ng/ml
EDDP	5.244	4832272	1310.31	41.9	32081.83	260819	1014.0172 ng/ml
Fentanyl	5.086	239557	8503.98	64.5	1119773.57	128132	104.6044 ng/ml
Fluoxetine	5.702	1661104	3414.32	8.8	69315.08	70831	1002.7880 ng/ml
Hydrocodone	2.985	2432305	571.50	40.7	∞	193587	893.6746 ng/ml
Hydromorphone	1.581	2072261	3211.18	78.4	∞	82256	964.5799 ng/ml
Ketamine	4.026	7089449	5464.34	37.1	∞	349866	966.2834 ng/ml
Lamotrigine	4.261	348383	∞	78.9	3529.94	349866	526.8594 ng/ml
Lorazepam	5.728	1411312	185.42	58.8	5365.68	59402	436.3759 ng/ml
Meprobamate	4.868	1394080	128357.60	25.9	16554.46	101189	764.8444 ng/ml
Methadone	5.648	4460220	169486.69	52.8	37193.83	205854	1020.6446 ng/ml
Methamphetamine	3.188	4831382	41377.65	42.3	794.83	238114	902.6215 ng/ml
Metoprolol	4.306	1010817	211978.20	97.0	25397.12	746609	971.4336 ng/ml

AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Mirtazapine	4.609	7332233	328527.86	48.6	13046.85	336073	1080.8566 ng/ml
Mitragynine	5.220	562854	30166.82	39.4	∞	205854	904.9106 ng/ml
Morphine	1.220	312963	∞	24.3	∞	3622	911.7539 ng/ml
Norbuprenorphine	4.970	12995	743.98	82.4	193.99	6372	97.9619 ng/ml
Nordiazepam	5.881	2604828	1316.36	57.1	2134.95	85297	985.5291 ng/ml
Norfentanyl	4.061	1106385	4868.68	37.1	48103.92	387181	117.7197 ng/ml
Norhydrocodone	3.039	251657	∞	43.2	∞	19784	1186.9908 ng/ml
Noroxycodone	2.876	1984119	10085.57	49.4	1853.40	62372	997.6847 ng/ml
O-desmethyl-tramadol	3.348	16412271	204427.19	5.8	122902.57	862502	1030.8471 ng/ml
Oxazepam	5.731	2247637	∞	71.0	∞	144113	982.7513 ng/ml
Oxycodone	2.800	5929233	24983.92	32.0	∞	295501	967.6061 ng/ml
Oxymorphone	1.376	1688276	∞	50.2	∞	68042	920.5850 ng/ml
Phentermine	3.745	1859484	3768.14	2.5	1798.99	266976	889.4221 ng/ml
Promethazine	5.527	5138147	1860.46	29.5	4311.47	225288	1018.4722 ng/ml
Quetiapine	5.551	4229328	24509.65	60.1	6448.88	55786	1015.9818 ng/ml
Sertraline	5.777	725084	26541.11	89.3	1438.07	29661	1022.3626 ng/ml
Temazepam	5.805	8067550	48622.24	29.2	23789.50	413088	1053.9845 ng/ml
Tramadol	4.219	12886382	5069.72	3.3	1650.20	746609	954.7198 ng/ml
Trazodone	5.154	5885192	109986.61	78.6	1682.24	271138	960.2076 ng/ml
Venlafaxine	5.020	11331330	558297.68	35.3	147213.03	572311	1018.2733 ng/ml
Zolpidem	4.911	16665166	∞	29.5	151924.90	808718	980.3542 ng/ml