Reviewed by Sarah Collins at 10:32 am, Dec 28, 2020

SJ TS CS
12/18/2020

Worklist: 4686

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2020-2341	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ
P2020-3464	2	UCK	AM 28 Urine Multi-Drug Confirmation Panel 2 by LC-QQ

SJ TS cs

12/18/2020

Worklist: 4685

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2020-3560	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ

SJ TS CG

12/21/2020

Worklist: 4687

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2020-3402	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ

SJ TS CS

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

Extraction Date: 12/17/2020
Plate lot#: 200514
Mobile phase A: 5mM Amm Form + 0.01% FA
Blank Blood Lot: 20L20725
Column: Agilent 120 EC-C18 (2.1x 100-2.7um)
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Expiration: 11/14/2020- okay with external control
Mobile phase B: 0.01% Formic Acid in MeOH
Blank Urine Lot: POC031319

Pre-Analytic:

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

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Pipette **250µL blood (calibrated pipette) or 250µL hydrolyzed urine** in wells of analytical (standards) plate. **Pipette ID: #42**
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 4. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **300µL of blood+base/urine+base** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). ***(Load at 85-100 PSI- Selector to the right)*** *Manifold ID: 067104*
☒ 8. Wait 5 minutes.
☒ 9. Add **900uL ethyl acetate.**
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 12. Add **900uL ethyl acetate.**
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. **Urine samples add 50 ul 1% HCl in MeOH**. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID: 067103*
☒ 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

Post-Analytic

☒ 1. Create batch and process data.
☒ 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? Yes, see comments Add Control data to QC tracking spreadsheet.
☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: Compounds evaluated: Amitriptyline, Clonazolam, Etizolam, Flualprazolam, Flurazepam (curve limited to 5-250), Pseudoephedrine

Data is labeled as P1 but was actually P2.

Celena Shrum, Tamara Salazar, and Sophia Jackson all had samples in this batch. Celena Shrum acted As the primary analyst and performed steps 3-16. TS SJ

SJ TS CG

Due to extraction occurring after the expiration of the analytical plate, an external control was included with this run.

I, Tamara Salazar, approved of all steps utilized in this method. TS

I, Sophia Jackson, approved of all steps utilized in this method. SJ

SJ TS CS

Idaho State Police Forensic Services

AM #28 Blood/Urine Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 2

Methanol External Control Solution (Lot: 121720)

100 ul each 1 mg/mL stock solution in 9800 ul MeOH

Component	*Source*	*Source Lot Number*	*Expiration Date*
Methanol (LCMS)	Fisher	197468	
Amitriptyline	Cerilliant	FN02202004	03/31/2025
Flurazepam	Cerilliant	FE08231902	11/30/2024
Prepared:	12/17/2020		
Prepared By:	Celena Shrum		
Expires:	12/17/2021		

Blood External Control Solution (Lot: WS121720)

100 ul of methanol external control solution was added to 9900ul of blood. Approximately 100ng/mL of each compound.

Component	*Source*	*Source Lot Number*
Negative Blood	Lampire	20L20725
Methanol External Control Solution	-	121720
Prepared:	12/17/2020	
Prepared by:	Celena Shrum	
Expires:	12/17/2021	

Urine External Control Solution (Lot: WS121720)

100 ul of methanol external control solution was added to 9900ul of urine. Approximately 100ng/mL of each compound.

Component	*Source*	*Source Lot Number*
Negative Urine		POC031319
Methanol External Control Solution	-	121720
Prepared:	12/17/2020	
Prepared by:	Celena Shrum	
Expires:	12/17/2021	

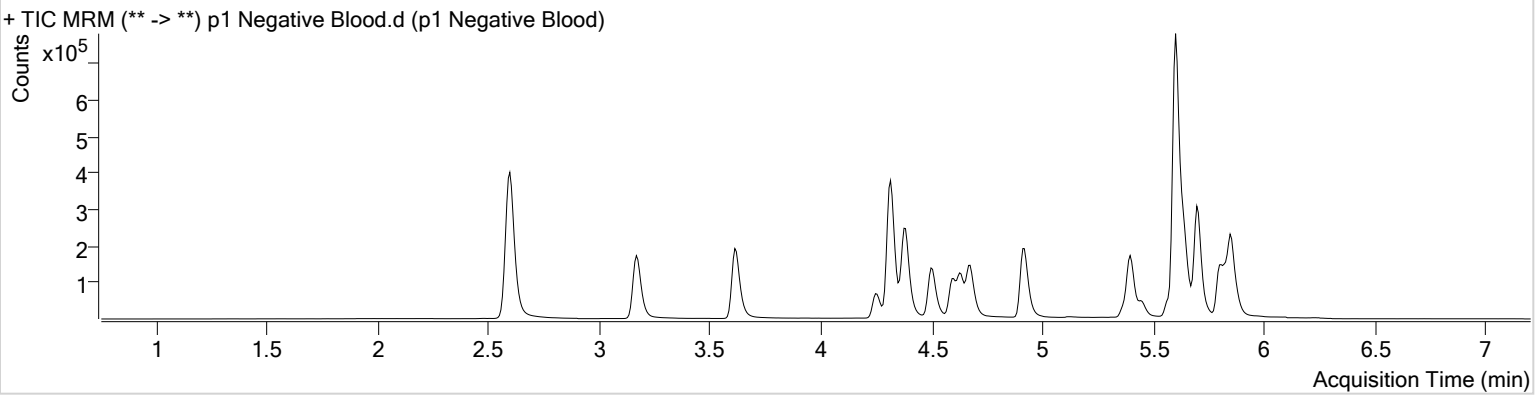
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update	12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Negative Blood.d
Type	Sample	**Sample**	p1 Negative Blood
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-E7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 5:30:07 PM		
Sample Info.			

Sample Chromatogram



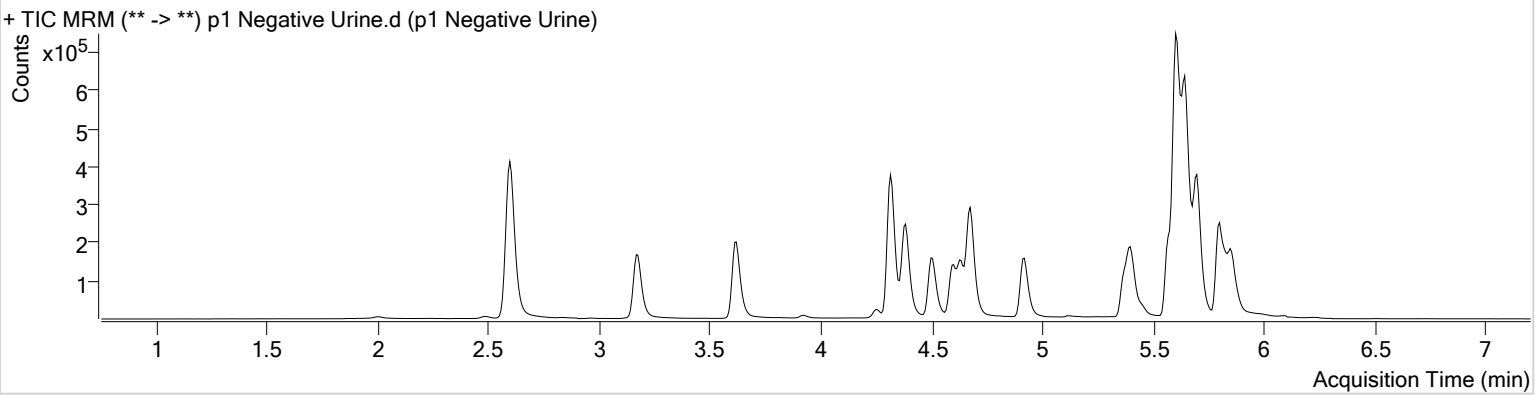
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results	D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update	12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Negative Urine.d
Type	Sample	**Sample**	p1 Negative Urine
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-G7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 6:01:52 PM		
Sample Info.			

Sample Chromatogram



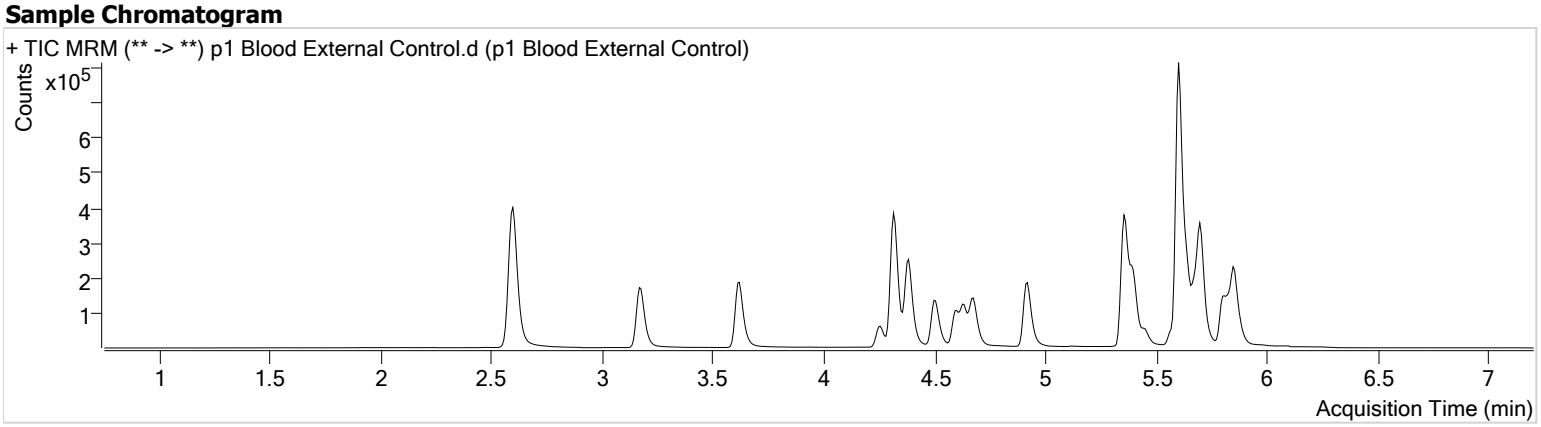
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Blood External Control.d
Type	Sample	**Sample**	p1 Blood External Control
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-F7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 5:51:17 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	123008	5416.33	60.5	21232.27	30388	77.8505 ng/ml
Flurazepam	5.352	814654	11205.59	11.0	1926.30	210129	65.0652 ng/ml

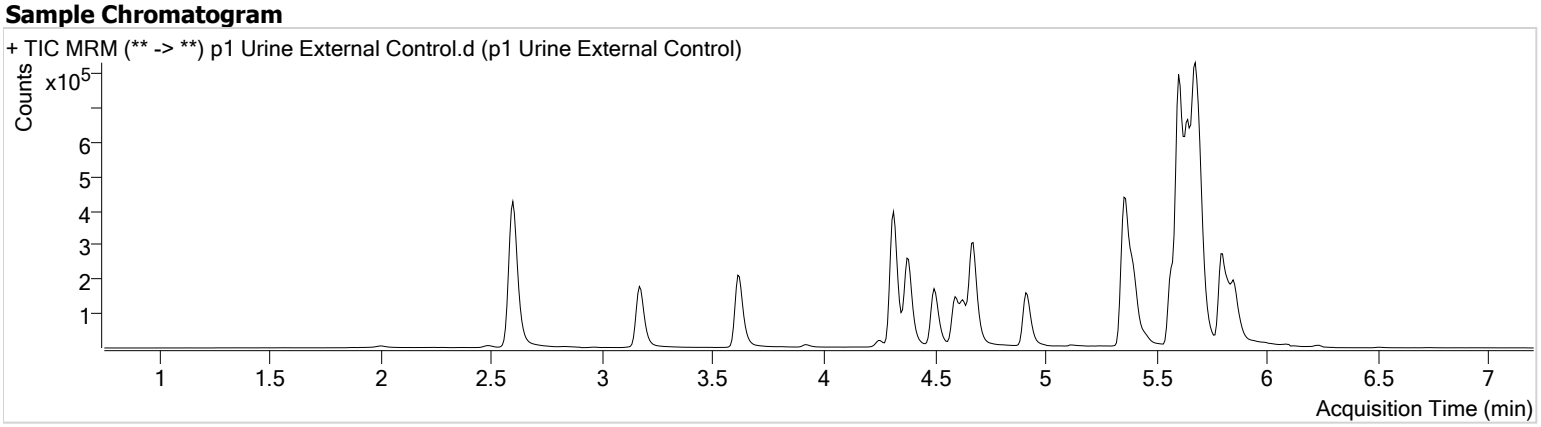
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Urine External Control.d
Type	Sample	**Sample**	p1 Urine External Control
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-H7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 6:23:02 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	518950	4958.18	60.2	1075.21	217639	45.6367 ng/ml
Flurazepam	5.352	809200	217802.08	11.1	1616.81	144850	93.3129 ng/ml

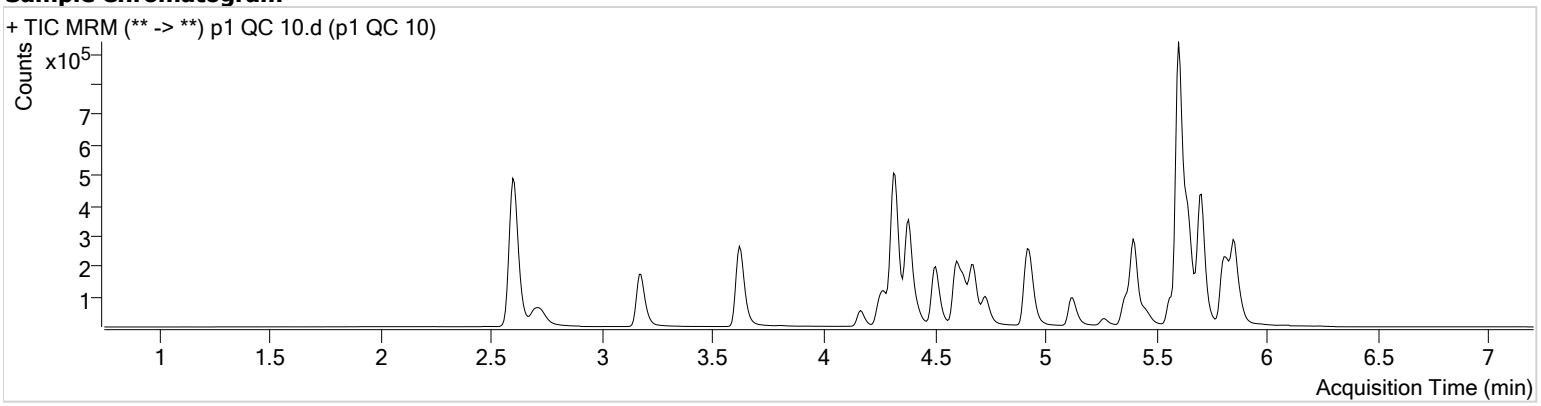
AM #28 Multi-Drug Quant. Results

SJ TS CS

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 QC 10.d
Type	QC	**Sample**	p1 QC 10
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-A7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 3:54:48 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	23376	295.96	50.9	279.49	41812	10.2869 ng/ml
Clonazolam	5.558	61737	85776.15	36.3	∞	48123	10.5566 ng/ml
Etizolam	5.811	45049	3344.25	27.0	8410.31	623598	9.0671 ng/ml
Flualprazolam	5.702	30572	635.24	115.8	∞	212591	11.1162 ng/ml
Flurazepam	5.352	117489	1675.88	10.5	1667.15	205245	10.4627 ng/ml
Pseudoephedrine	2.614	260180	4116.10	15.3	∞	1202237	10.1530 ng/ml

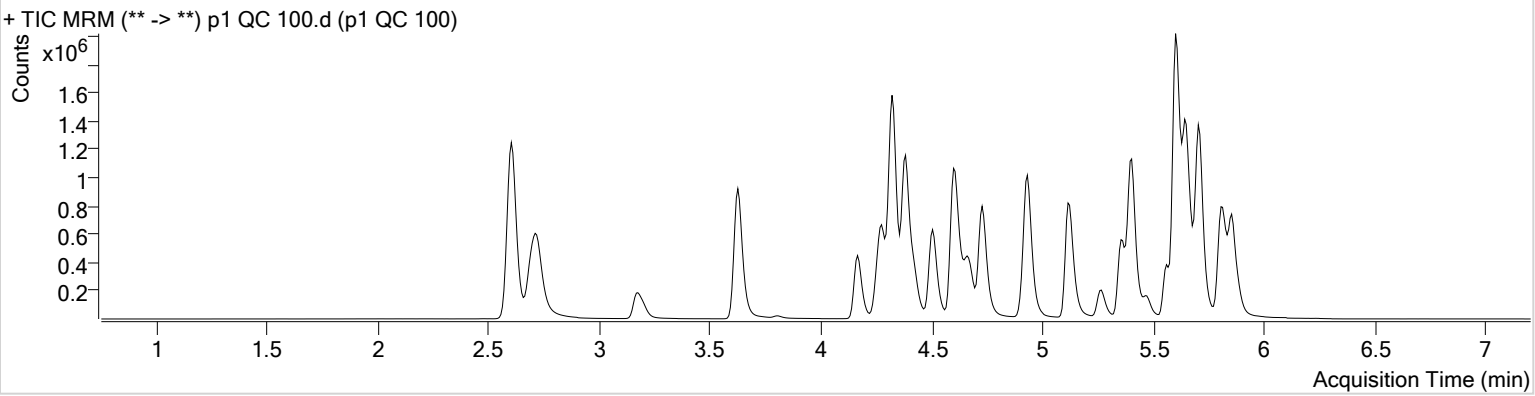
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 QC 100.d
Type	QC	**Sample**	p1 QC 100
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-B7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 4:16:00 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	203033	516.05	51.0	527.37	37708	103.7333 ng/ml
Clonazolam	5.558	532538	∞	36.2	∞	43421	104.9434 ng/ml
Etizolam	5.811	381558	∞	27.0	∞	511856	89.4112 ng/ml
Flualprazolam	5.709	254806	5909.93	114.5	∞	196136	99.5574 ng/ml
Flurazepam	5.352	1043107	∞	10.6	∞	178668	97.4733 ng/ml
Pseudoephedrine	2.608	2386742	∞	15.2	1018.70	1136043	99.5969 ng/ml

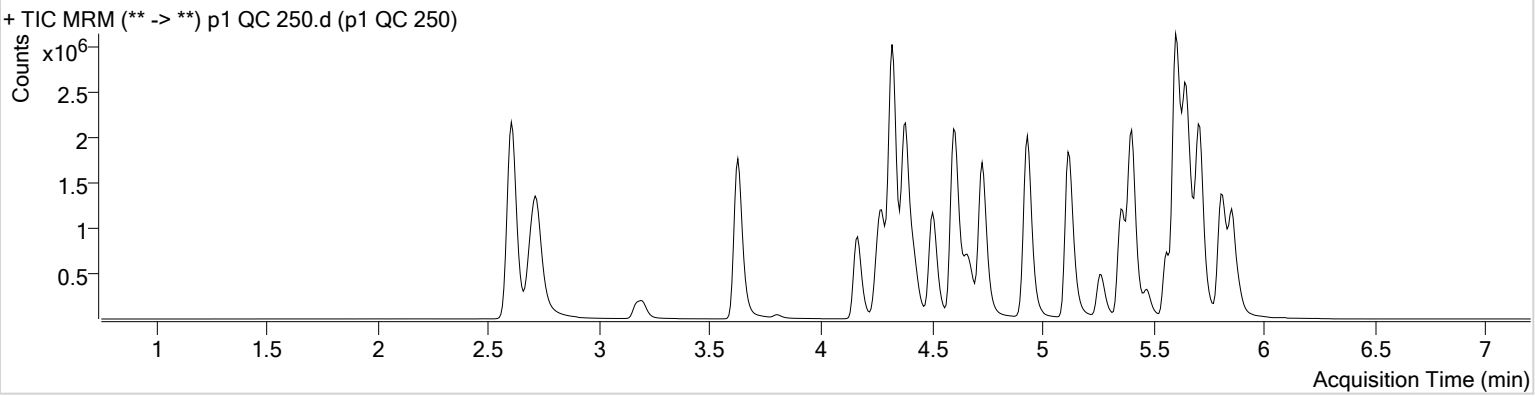
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 QC 250.d
Type	QC	**Sample**	p1 QC 250
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-C7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 4:37:11 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	492290	1837.57	52.3	291.20	38042	250.0652 ng/ml
Clonazolam	5.558	1098538	120753.93	36.0	19738.32	36496	258.2394 ng/ml
Etizolam	5.811	719871	6147.23	26.8	5344.97	367012	234.5363 ng/ml
Flualprazolam	5.709	505797	6432.91	115.3	∞	162631	238.1882 ng/ml
Flurazepam	5.352	2329385	∞	11.0	13090.18	144812	266.7972 ng/ml
Pseudoephedrine	2.608	5093018	14614.06	15.2	∞	981043	246.2807 ng/ml

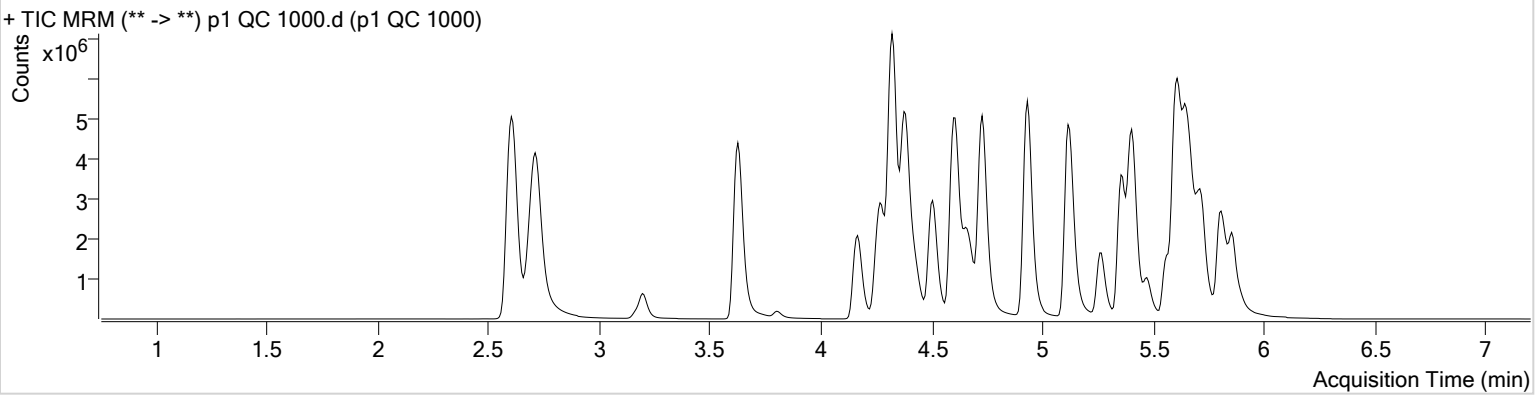
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 QC 1000.d
Type	QC	**Sample**	p1 QC 1000
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-D7	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 4:58:20 PM		
Sample Info.			

Sample Chromatogram



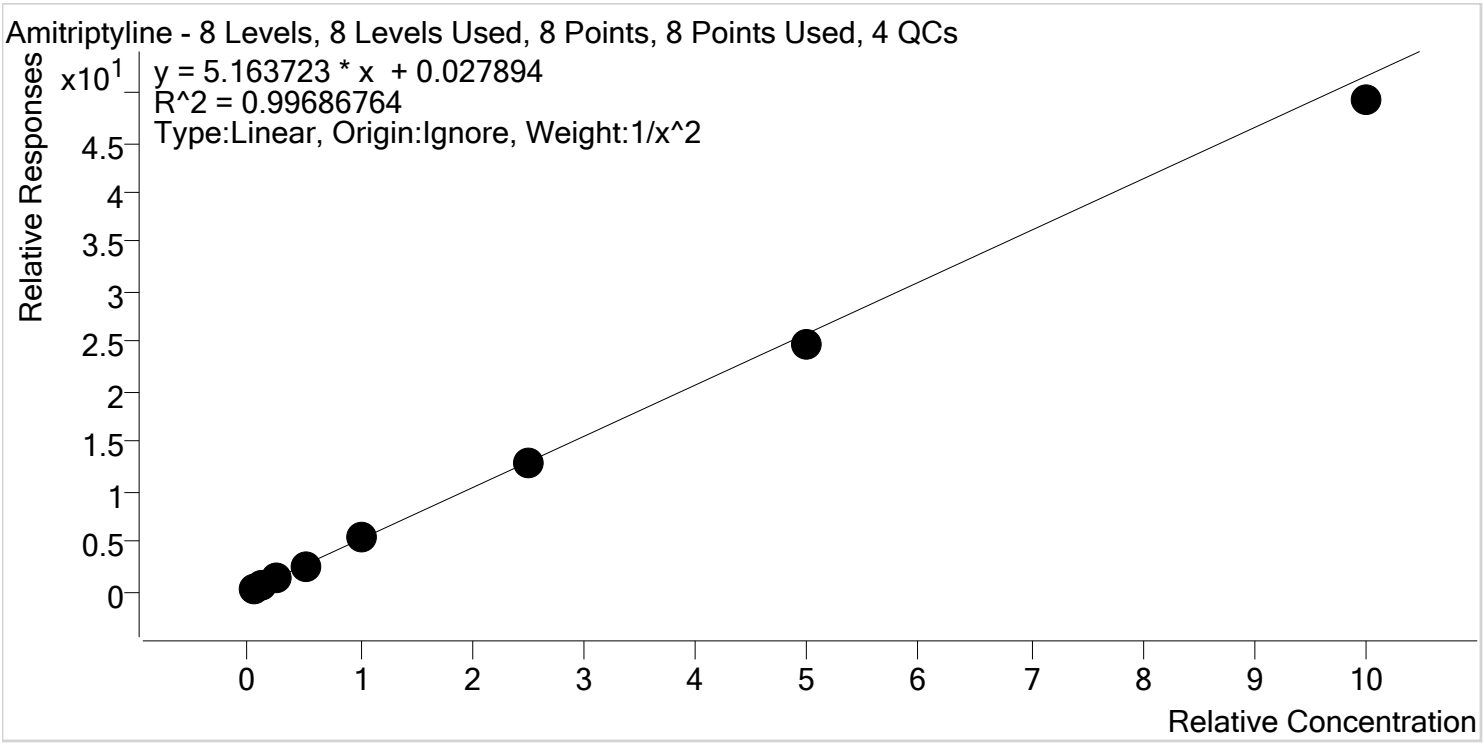
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	1486202	24328.46	54.3	2516.25	30392	946.4756 ng/ml
Clonazolam	5.558	2647762	99537.73	37.8	∞	26019	874.1739 ng/ml
Etizolam	5.811	1468826	8414.54	26.8	5573.98	164335	1067.1685 ng/ml
Flualprazolam	5.709	1266128	12210.36	114.4	7979.39	107190	904.3265 ng/ml
Flurazepam	5.352	7730187	5277528.49	11.2	1224146.71	73617	1736.0773 ng/ml *
Pseudoephedrine	2.608	15123402	11161.16	15.2	∞	735739	975.4943 ng/ml

*Outside curve range

SJ TS CS

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Last Cal. Update	12/22/2020 4:07 PM
Analyst Name	ISP\Datastor
Analyte	Amitriptyline
Internal Standard	Amitriptyline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✔	5.0	4.8	95.1
p1 Cal 2- 10ng	2	✔	10.0	10.8	108.5
p1 Cal 3 -25ng	3	✔	25.0	25.8	103.0
p1 Cal 4-50ng	4	✔	50.0	49.8	99.6
p1 Cal 5-100ng	5	✔	100.0	104.0	104.0
p1 Cal 6-250ng	6	✔	250.0	248.0	99.2
p1 Cal 7-500ng	7	✔	500.0	476.5	95.3
p1 Cal 8-1000ng	8	✔	1000.0	953.1	95.3

SJ TS CG

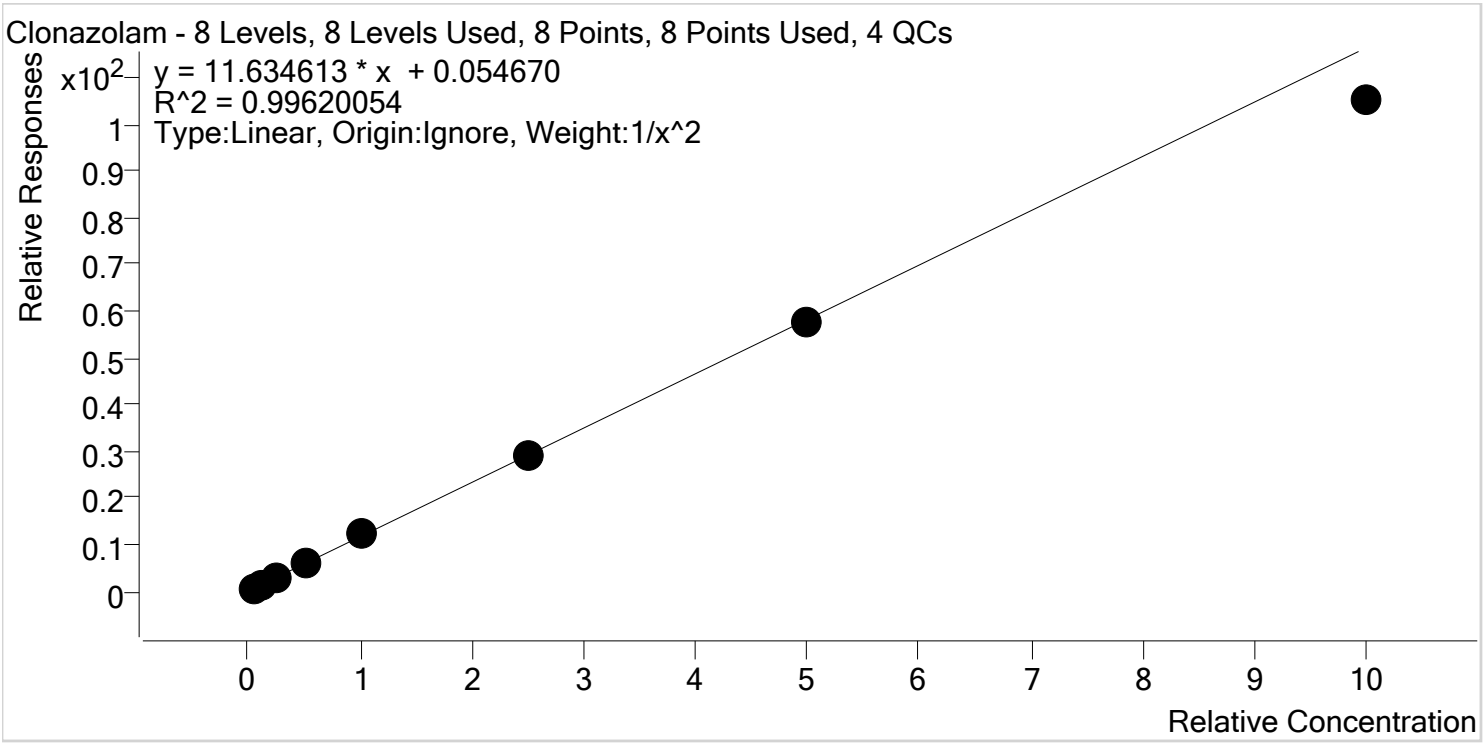
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin

Last Cal. Update 12/22/2020 4:07 PM

Analyst Name ISP\Datastor

Analyte Clonazolam **Internal Standard** Phenazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✔	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✔	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✔	25.0	24.9	99.5
p1 Cal 4-50ng	4	✔	50.0	53.9	107.9
p1 Cal 5-100ng	5	✔	100.0	103.0	103.0
p1 Cal 6-250ng	6	✔	250.0	246.3	98.5
p1 Cal 7-500ng	7	✔	500.0	495.5	99.1
p1 Cal 8-1000ng	8	✔	1000.0	903.4	90.3

SJ TS CG

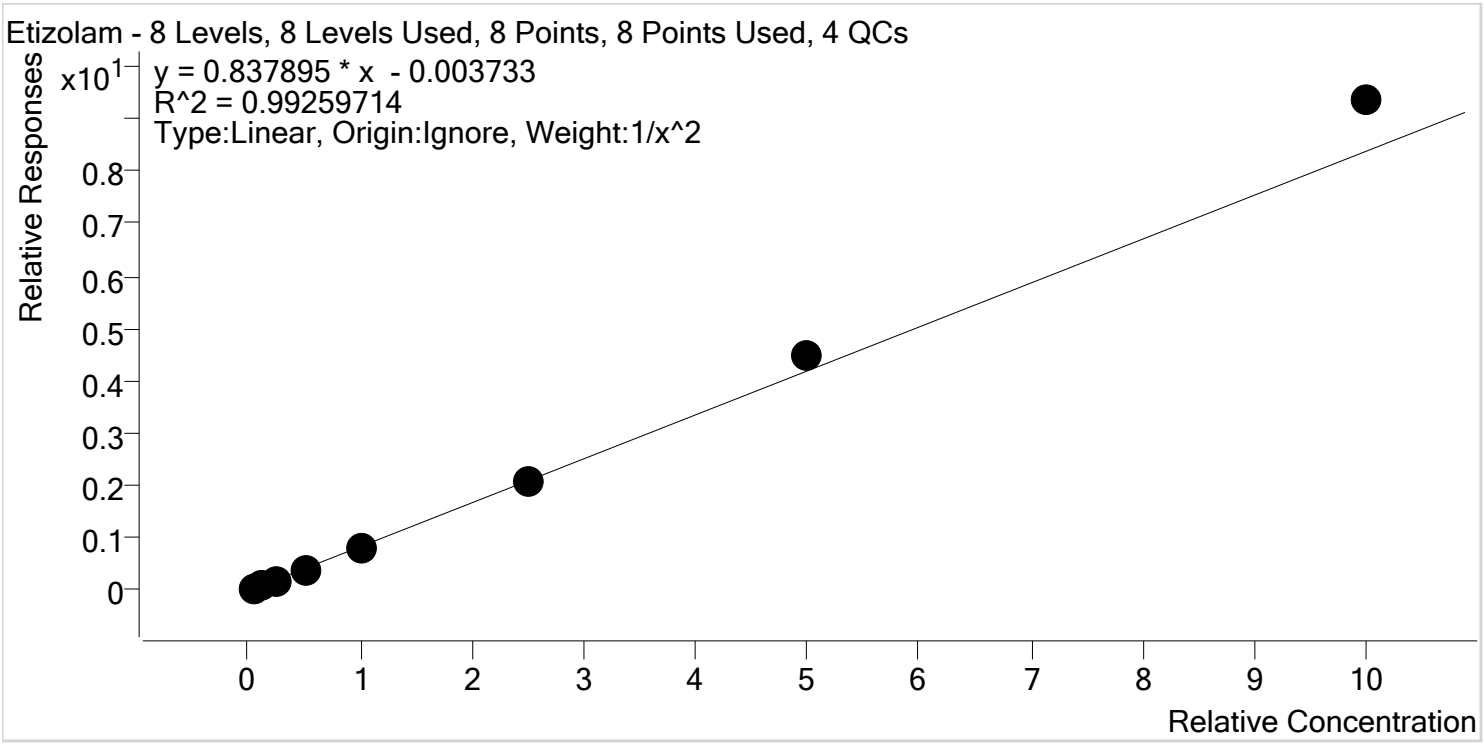
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin

Last Cal. Update 12/22/2020 4:07 PM

Analyst Name ISP\Datastor

Analyte Etizolam **Internal Standard** Estazolam-D5

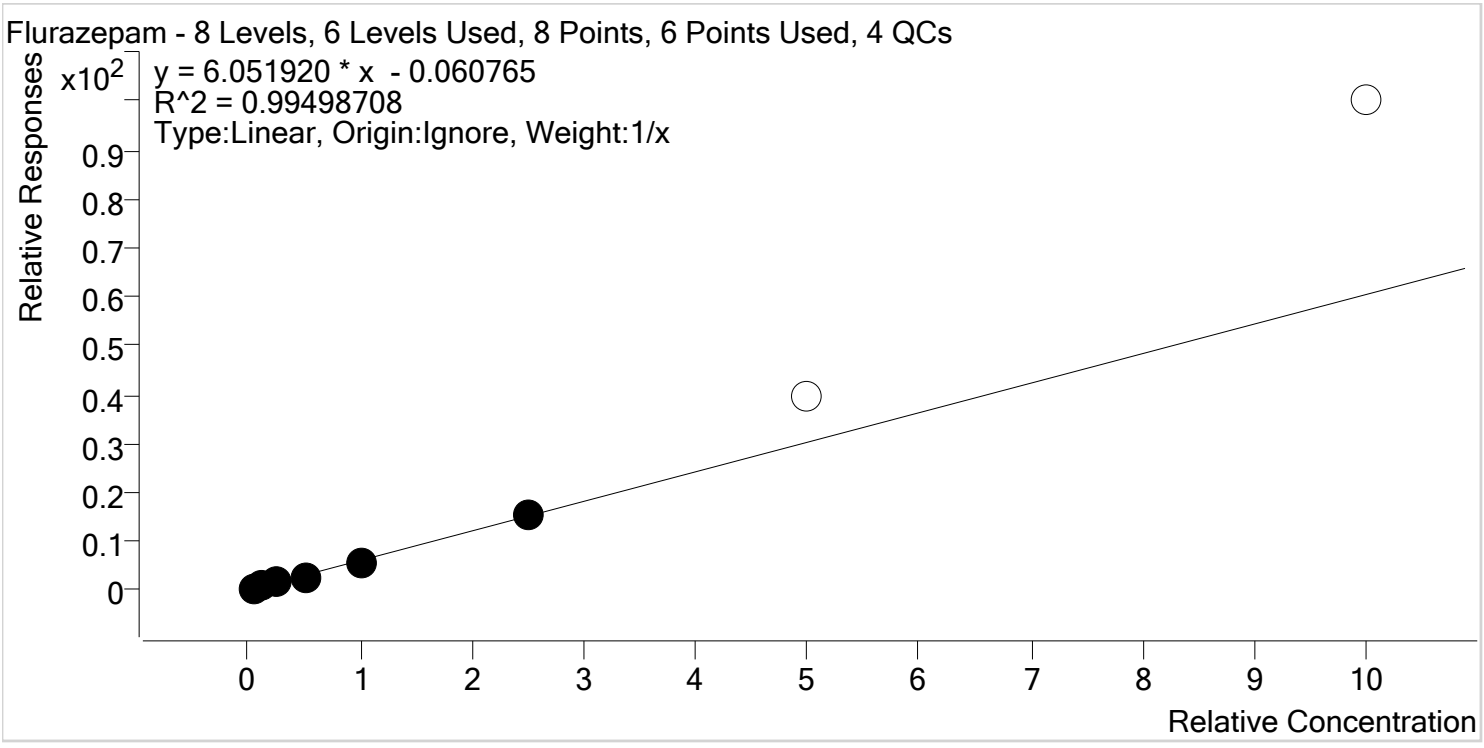


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✔	5.0	5.2	103.5
p1 Cal 2- 10ng	2	✔	10.0	9.8	98.3
p1 Cal 3 -25ng	3	✔	25.0	23.0	91.8
p1 Cal 4-50ng	4	✔	50.0	45.0	90.0
p1 Cal 5-100ng	5	✔	100.0	96.0	96.0
p1 Cal 6-250ng	6	✔	250.0	252.6	101.0
p1 Cal 7-500ng	7	✔	500.0	538.5	107.7
p1 Cal 8-1000ng	8	✔	1000.0	1116.0	111.6

SJ TS cg

AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Last Cal. Update	12/22/2020 4:07 PM
Analyst Name	ISP\Datastor
Analyte	Flurazepam
Internal Standard	Flunitrazepam-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✔	5.0	5.7	113.1
p1 Cal 2- 10ng	2	✔	10.0	10.7	106.6
p1 Cal 3 -25ng	3	✔	25.0	23.3	93.0
p1 Cal 4-50ng	4	✔	50.0	43.2	86.4
p1 Cal 5-100ng	5	✔	100.0	96.7	96.7
p1 Cal 6-250ng	6	✔	250.0	260.6	104.2
p1 Cal 7-500ng	7	✗	500.0	662.1	132.4
p1 Cal 8-1000ng	8	✗	1000.0	1657.2	165.7

SJ TS CG

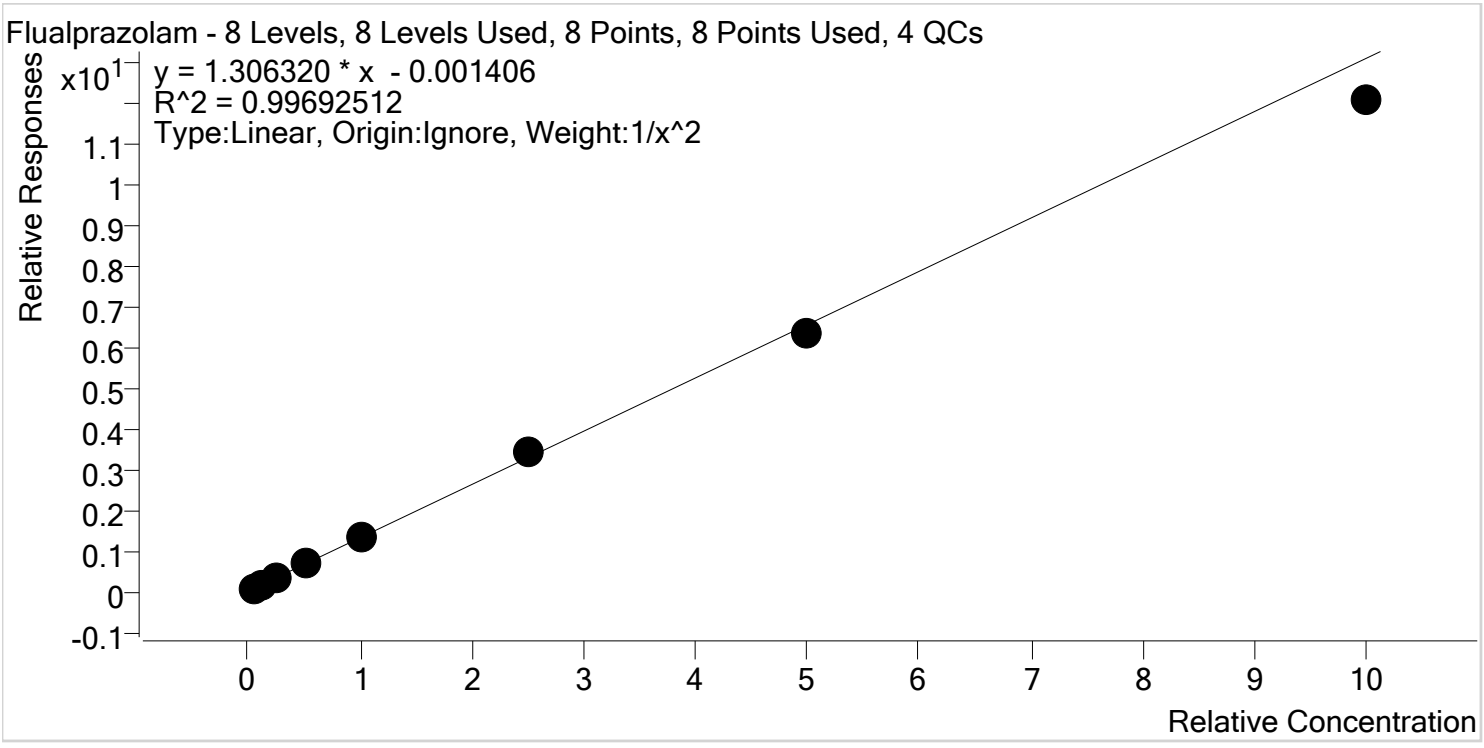
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin

Last Cal. Update 12/22/2020 4:07 PM

Analyst Name ISP\Datastor

Analyte Flualprazolam **Internal Standard** Midazolam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✔	5.0	4.8	96.8
p1 Cal 2- 10ng	2	✔	10.0	10.6	106.2
p1 Cal 3 -25ng	3	✔	25.0	24.6	98.4
p1 Cal 4-50ng	4	✔	50.0	51.8	103.6
p1 Cal 5-100ng	5	✔	100.0	101.3	101.3
p1 Cal 6-250ng	6	✔	250.0	262.4	105.0
p1 Cal 7-500ng	7	✔	500.0	483.6	96.7
p1 Cal 8-1000ng	8	✔	1000.0	921.3	92.1

SJ TS CJ

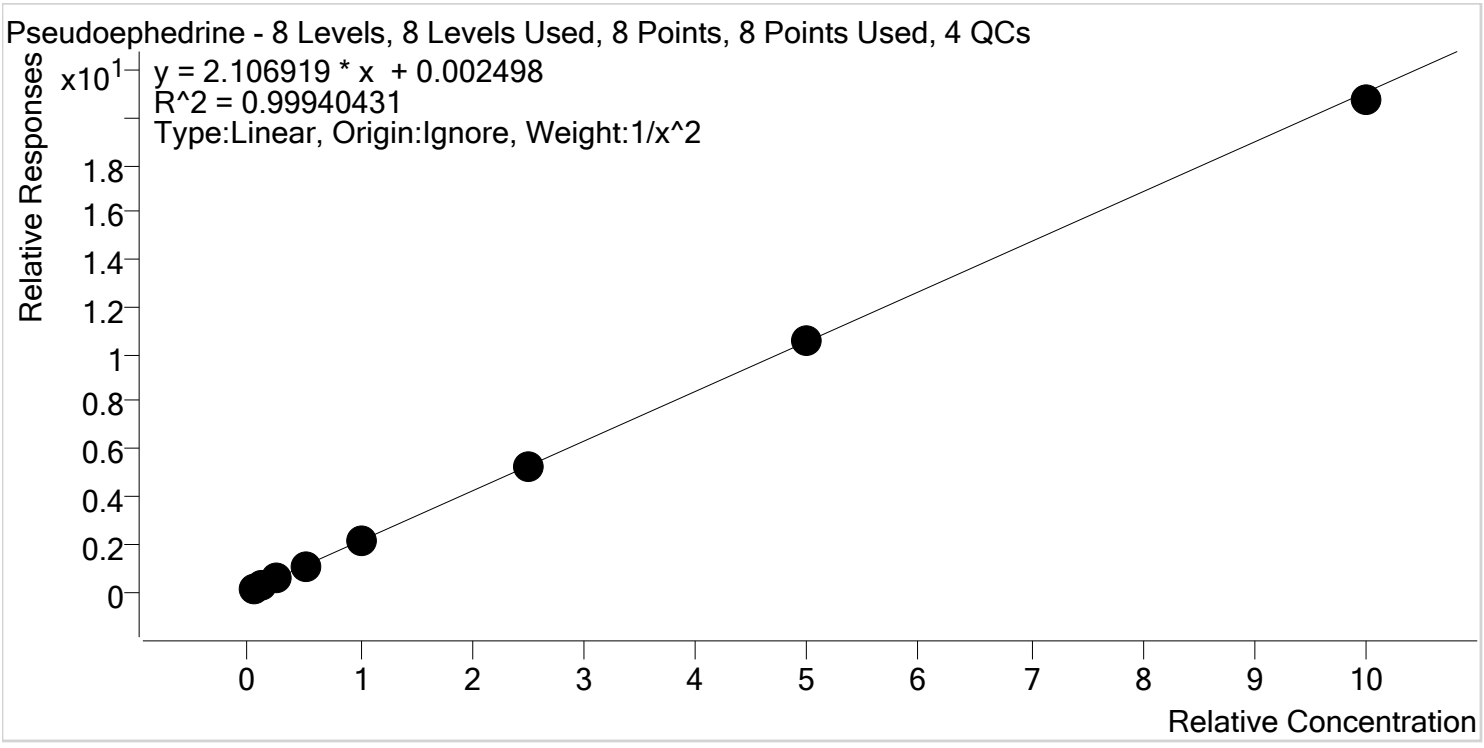
AM #28 Multi-Drug Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin

Last Cal. Update 12/22/2020 4:07 PM

Analyst Name ISP\Datastor

Analyte Pseudoephedrine **Internal Standard** Pseudoephedrine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✔	5.0	4.9	97.7
p1 Cal 2- 10ng	2	✔	10.0	10.5	104.8
p1 Cal 3 -25ng	3	✔	25.0	24.9	99.6
p1 Cal 4-50ng	4	✔	50.0	49.8	99.7
p1 Cal 5-100ng	5	✔	100.0	100.1	100.1
p1 Cal 6-250ng	6	✔	250.0	249.9	99.9
p1 Cal 7-500ng	7	✔	500.0	498.9	99.8
p1 Cal 8-1000ng	8	✔	1000.0	983.7	98.4

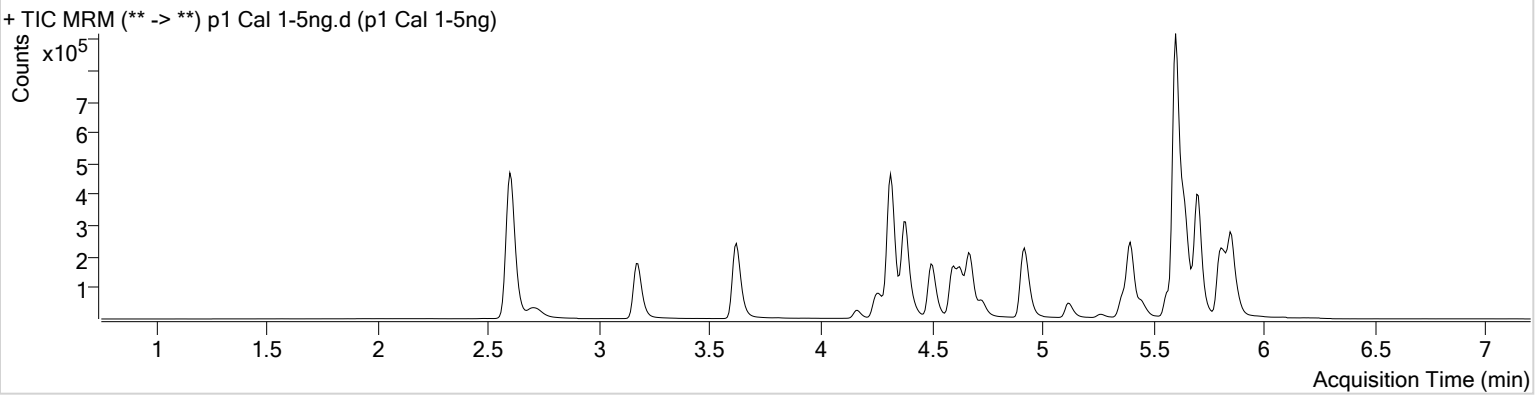
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 1-5ng.d
Type	Cal	**Sample**	p1 Cal 1-5ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-A6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 2:08:48 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	15526	97.18	49.5	148.23	56788	4.7544 ng/ml
Clonazolam	5.558	31417	85579.98	35.1	24257.75	50835	4.8420 ng/ml
Etizolam	5.811	26358	40657.05	24.6	4613.97	665073	5.1754 ng/ml
Flualprazolam	5.702	14578	∞	115.3	∞	235871	4.8389 ng/ml
Flurazepam	5.352	60208	49435.81	9.3	∞	213861	5.6559 ng/ml
Pseudoephedrine	2.614	134148	329.98	15.2	2181.74	1272361	4.8855 ng/ml

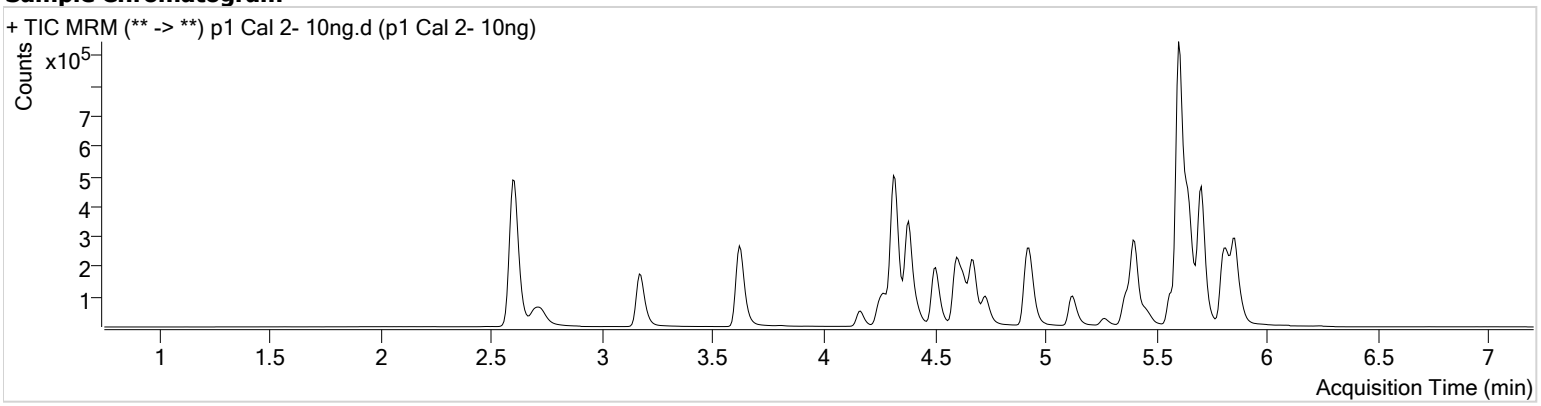
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 2- 10ng.d
Type	Cal	**Sample**	p1 Cal 2- 10ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-B6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 2:19:34 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	32920	325.45	51.6	185.54	55991	10.8458 ng/ml
Clonazolam	5.558	62887	39840.36	36.2	36039.98	49354	10.4820 ng/ml
Etizolam	5.811	49637	∞	27.2	14347.85	630979	9.8342 ng/ml
Flualprazolam	5.709	30909	∞	111.4	∞	225118	10.6181 ng/ml
Flurazepam	5.352	120068	156560.95	10.6	19939.23	205566	10.6553 ng/ml
Pseudoephedrine	2.614	267393	5003.54	15.1	336.50	1197256	10.4817 ng/ml

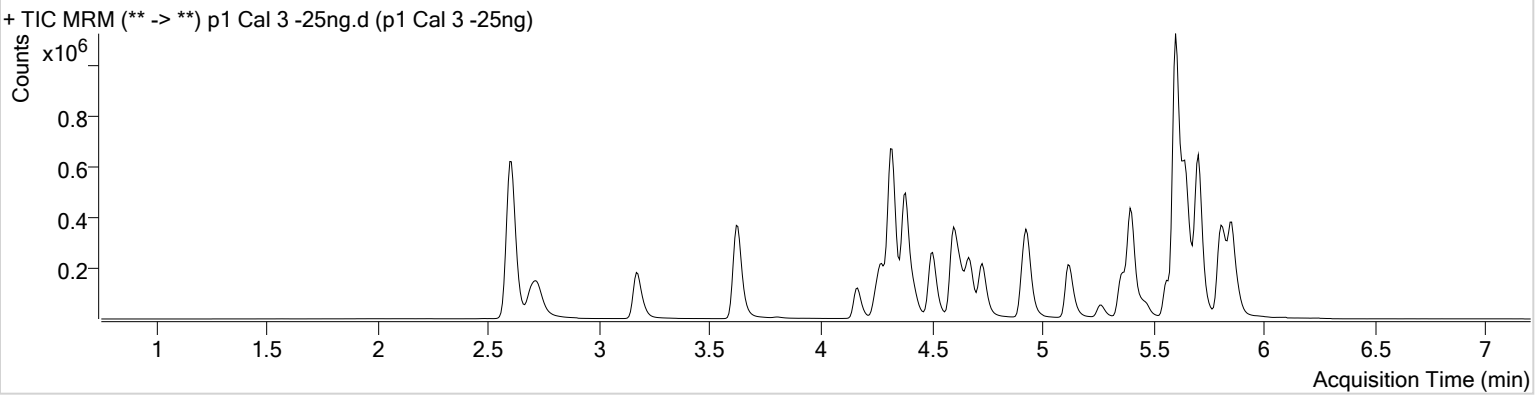
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 3 -25ng.d
Type	Cal	**Sample**	p1 Cal 3 -25ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-C6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 2:30:09 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	67251	435.56	50.6	412.81	49519	25.7603 ng/ml
Clonazolam	5.558	143935	∞	36.0	∞	48815	24.8732 ng/ml
Etizolam	5.811	114630	3416.99	26.7	36848.60	607622	22.9607 ng/ml
Flualprazolam	5.702	67886	∞	119.8	∞	212116	24.6072 ng/ml
Flurazepam	5.352	272236	59512.91	10.5	44134.33	202133	23.2584 ng/ml
Pseudoephedrine	2.608	631986	7472.11	15.1	1558.82	1198968	24.8994 ng/ml

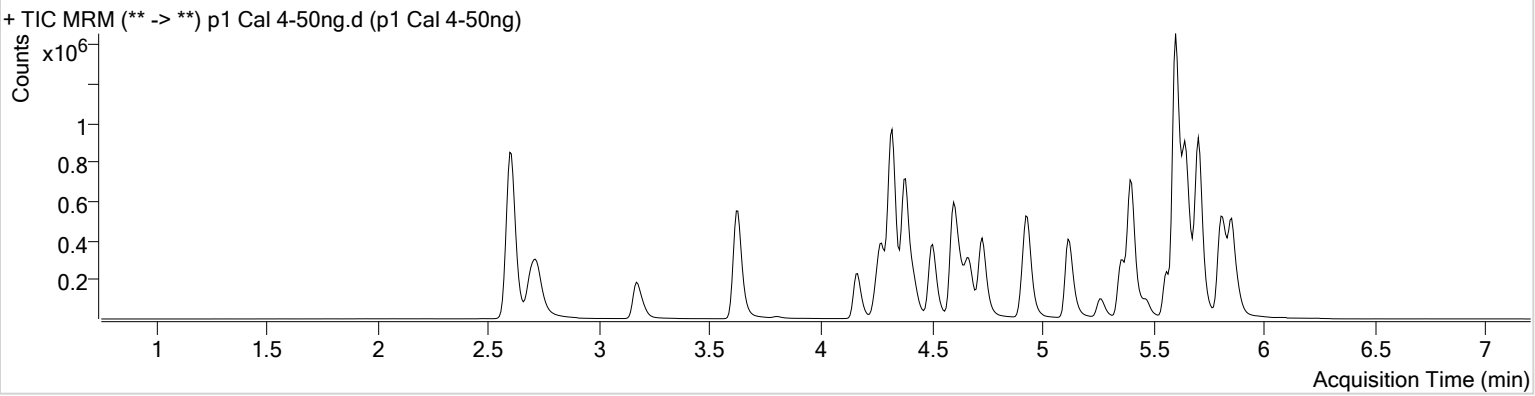
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 4-50ng.d
Type	Cal	**Sample**	p1 Cal 4-50ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-D6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 2:40:45 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	110353	3648.97	50.9	930.23	42447	49.8065 ng/ml
Clonazolam	5.558	291926	∞	35.8	43887.44	46109	53.9477 ng/ml
Etizolam	5.811	217810	∞	26.9	6053.81	583627	44.9858 ng/ml
Flualprazolam	5.702	139316	∞	111.0	∞	206409	51.7759 ng/ml
Flurazepam	5.352	518752	489699.16	10.4	∞	203161	43.1958 ng/ml
Pseudoephedrine	2.608	1263659	11654.53	15.2	∞	1200610	49.8365 ng/ml

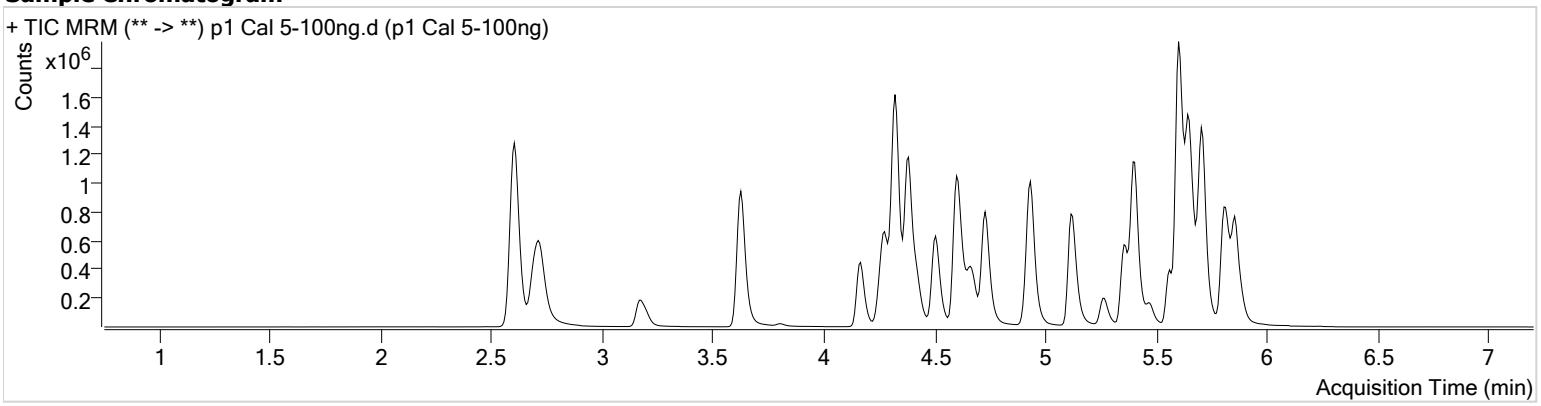
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 5-100ng.d
Type	Cal	**Sample**	p1 Cal 5-100ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-E6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 2:51:21 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	239649	1411.35	50.4	962.08	44396	103.9968 ng/ml
Clonazolam	5.558	539059	3277.62	36.1	∞	44779	102.9992 ng/ml
Etizolam	5.811	410913	∞	26.6	95986.00	513258	95.9941 ng/ml
Flualprazolam	5.702	260030	∞	113.1	∞	196803	101.2521 ng/ml
Flurazepam	5.352	1050914	4365167.55	10.5	11722.33	181495	96.6817 ng/ml
Pseudoephedrine	2.608	2456530	19603.91	15.2	125430.50	1163226	100.1142 ng/ml

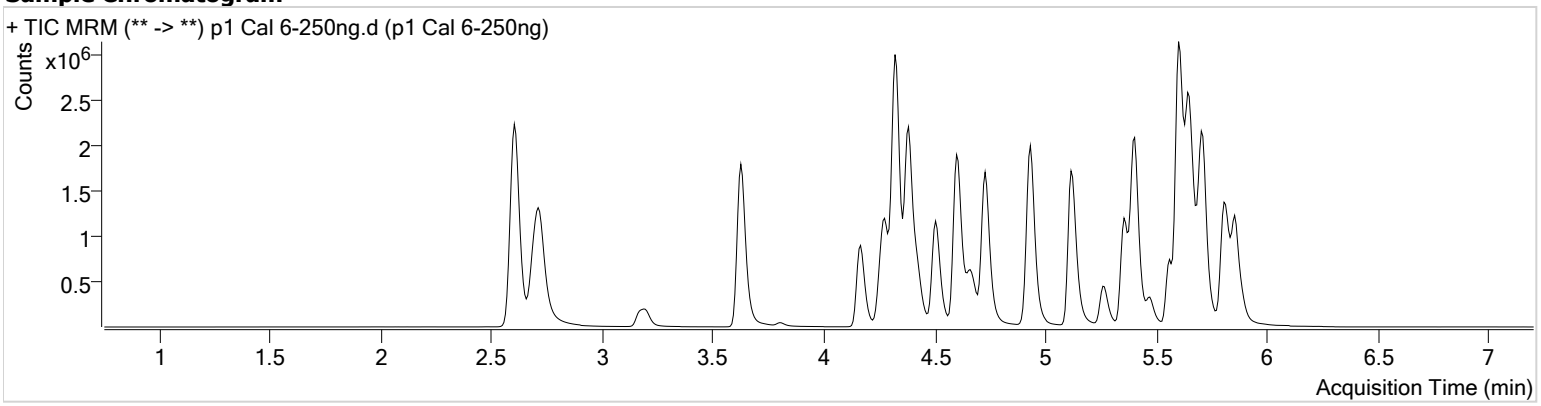
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 6-250ng.d
Type	Cal	**Sample**	p1 Cal 6-250ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-F6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 3:01:55 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	492674	2152.82	52.3	834.01	38395	247.9554 ng/ml
Clonazolam	5.558	1093856	∞	37.5	19550.34	38107	246.2523 ng/ml
Etizolam	5.811	774878	∞	26.8	4102.71	366778	252.5845 ng/ml
Flualprazolam	5.702	515759	15541.98	112.1	9396.78	150519	262.4119 ng/ml
Flurazepam	5.352	2313595	∞	10.9	∞	147291	260.5529 ng/ml
Pseudoephedrine	2.608	5244534	∞	15.1	∞	995775	249.8571 ng/ml

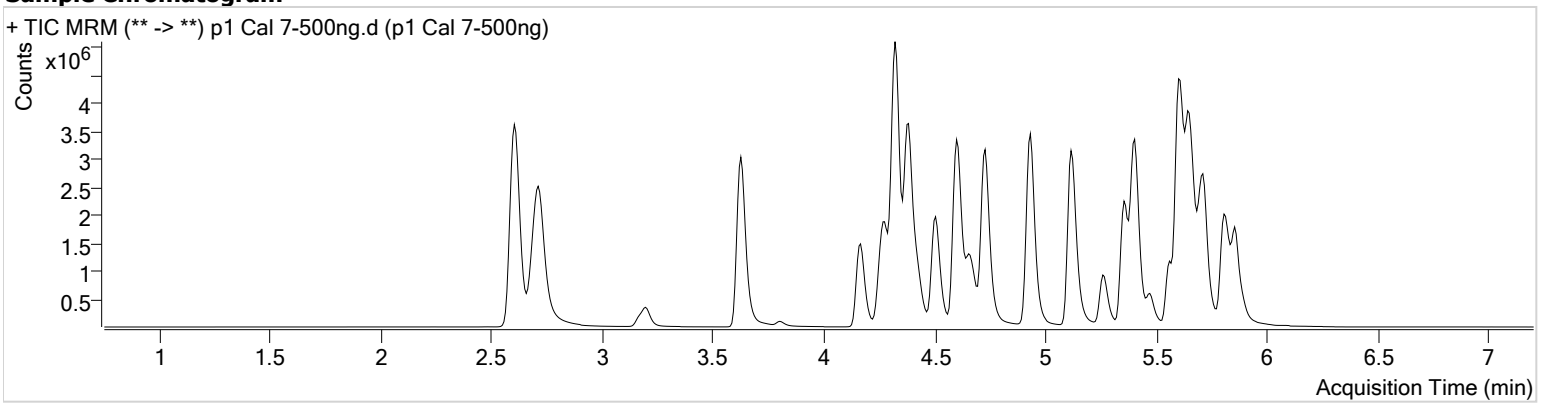
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 7-500ng.d
Type	Cal	**Sample**	p1 Cal 7-500ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-G6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 3:12:29 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	801867	7481.30	53.9	808.60	32549	476.5466 ng/ml
Clonazolam	5.558	1877090	98439.23	36.9	∞	32526	495.5479 ng/ml
Etizolam	5.811	1189143	29647.84	26.8	217264.47	263750	538.5317 ng/ml
Flualprazolam	5.709	861700	5824.79	112.5	9745.89	136439	483.5743 ng/ml
Flurazepam	5.352	4592885	761494.07	11.3	293033.08	114797	662.0969 ng/ml
Pseudoephedrine	2.608	9718438	12717.36	15.2	∞	924402	498.8668 ng/ml

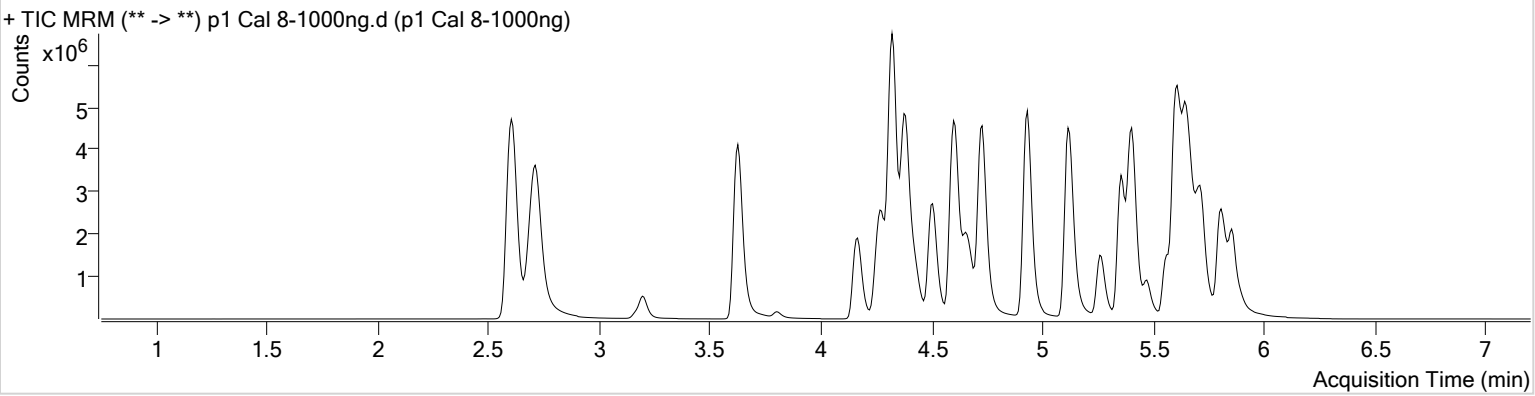
SJ TS CS

AM #28 Multi-Drug Quant. Results

Batch results D:\MassHunter\Data\2020\AM 27-28\121720 AM 28 P2 CS TS SJ_AM 26 TS\QuantResults\AM 28 P2 Casework.batch.bin
Calibration Last Update 12/22/2020 4:07:25 PM

Instrument	Instrument 1	**Data File**	p1 Cal 8-1000ng.d
Type	Cal	**Sample**	p1 Cal 8-1000ng
Acq. Method	AM 28 MDQ P2.m	**Operator**	Celena Shrum
Sample Position	P2-H6	**Comment**	
Injection Volume	2		
Acq. Date-Time	12/17/2020 3:23:03 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amitriptyline	5.678	1426089	22113.65	55.0	756.10	28960	953.1115 ng/ml
Clonazolam	5.558	2451887	∞	37.9	∞	23315	903.4295 ng/ml
Etizolam	5.811	1431924	4613.32	26.4	6574.48	153191	1116.0178 ng/ml
Flualprazolam	5.709	1165120	15802.51	115.1	∞	96824	921.2780 ng/ml
Flurazepam	5.352	7050286	135009.32	11.3	∞	70339	1657.2332 ng/ml
Pseudoephedrine	2.608	13988290	∞	15.3	3036.00	674831	983.7153 ng/ml