REVIEWED

By Britany Wylie at 10:16 am, Sep 27, 2019

9/23/2019

15

Worklist: 3704

<u>LAB CASE</u> <u>ITEM</u> <u>TASK ID</u> <u>DESCRIPTION</u>

P2019-2517 1 164854 AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(

P2019-2594 1 164855 AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(





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

Extraction Date: 09/23/19 Analyst: Tamara Salazar Plate lot#: Item #:IDP-112 Lot:190730 Plate Expiration: 01/30/20

Mobile phase A: 5mM Amm Form + 0.01% FA **Mo**

0.5M Ammonium Hydroxide

Blank Blood Lot: 445283-2 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. Pipette 250μL blood (calibrated pipette) Pipette ID: 3 in wells of analytical (standards) plate.
- □ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. Shaker ID: 067105
- □ 4. Pipette 250μL 00.5M ammonium hydroxide in wells of analytical plate.
- ∑ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ⊠ 6. Transfer 300μL of blood+base mixture to corresponding wells of SLE+ plate.
- ✓ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
 (Load at 85-100 PSI- Selector to the right) Manifold ID: 067104
- ⊠ 8. Wait 5 minutes.
- ∅ 9. Add 900uL ethyl acetate.
- \boxtimes 10. Wait 5 minutes.
- △ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- □ 12. Add 900uL ethyl acetate.
- \boxtimes 13. Wait 5 minutes.
- △ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- 🗵 16. Reconstitute in 100μL 20% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

 \boxtimes 1. Create batch and process data.

Worklist path: D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS Batch Name: MDQ P2 wklst 3704 only evaluated compounds

- \boxtimes 3. Integration linear and R² values \ge 0.98 for each analyte.
- ☑ 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: Only methylphenidate and pseudoephedrine evaluated.

D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM Calibration Last Update

Instrument

Batch results

Sample

MDQ P2 Combined 092319.m P1-E6

9/23/2019 4:06:17 PM

Injection Volume Sample Position

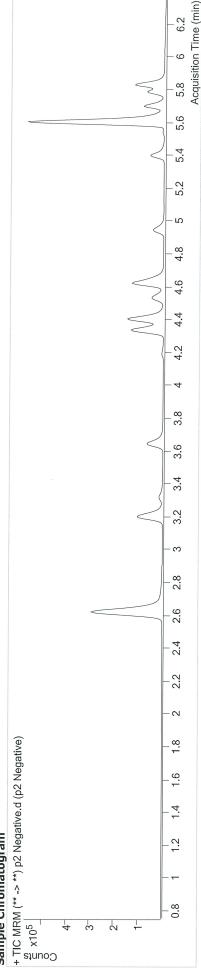
Acq. Method

Acq. Date-Time

Sample Info.

Operator Comment Data File Sample

p2 Negative.d p2 Negative







D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM

InstrumentFalcoTypeQCAcq. MethodMDQ P2Sample PositionP1-A6

Calibration Last Update

Batch results

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9/23/2019 2:21:15 PM

Injection Volume

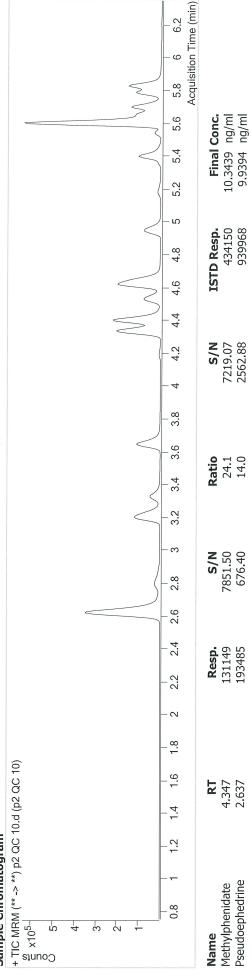
Acq. Date-Time

Sample Info.

Data File Sample Operator Comment

p2 QC 10.d p2 QC 10









D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM Calibration Last Update

Batch results

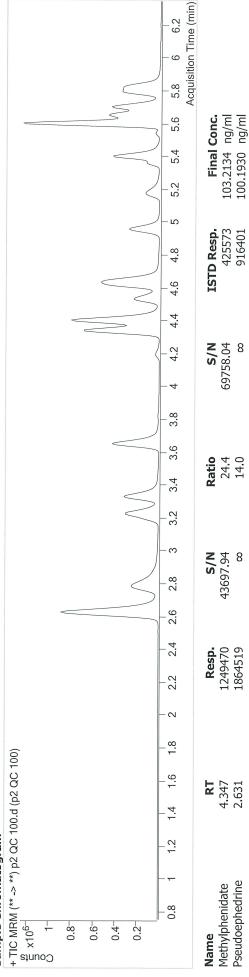
9/23/2019 2:42:16 PM P1-B6 Injection Volume Sample Position Acq. Date-Time Acq. Method Instrument

MDQ P2 Combined 092319.m

Data File Sample Operator Comment

p2 QC 100.d p2 QC 100









Calibration Last Update Batch results

D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM

Instrument

Injection Volume Sample Position Acq. Date-Time Acq. Method rype

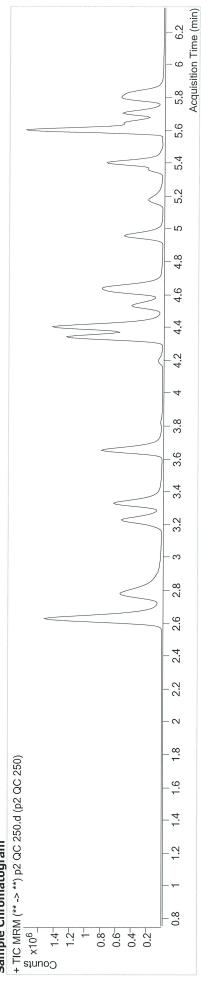
QC MDQ P2 Combined 092319.m 9/23/2019 3:03:15 PM P1-C6

Operator Comment Data File Sample

p2 QC 250.d p2 QC 250

Sample Chromatogram

Sample Info.



250.8038 ng/ml 244.5007 ng/ml Final Conc.

ISTD Resp. 356011 790062

S/N 122386.04 13477.23

Ratio 24.5 14.0

80651,56 8

2535442 3917644

4.347 2,631

Pseudoephedrine Methylphenidate

Name





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Instrument

Batch results

MDQ P2 Combined 092319.m P1-D6

9/23/2019 3:24:15 PM

Injection Volume Sample Position

Acq. Method

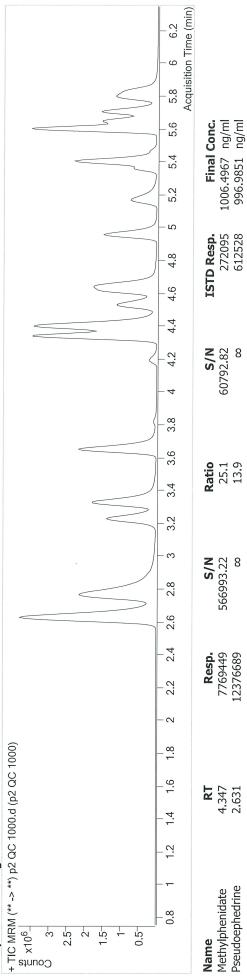
Acq. Date-Time

Sample Info.

Data File Sample

Operator Comment

p2 QC 1000.d p2 QC 1000







Batch results D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst

3704 only evaluated compounds.batch.bin

Last Cal. Update

9/24/2019 9:38 AM

Analyst Name

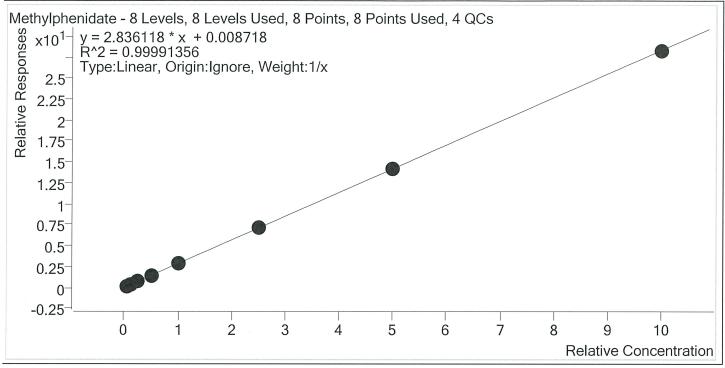
ISP\datastor

Analyte

Methylphenidate

Internal Standard

Methylphenidate-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	4.9	98.7
p2 Cal 2- 10ng	2	✓	10.0	10.1	101.1
p2 Cal 3 -25ng	3	✓	25.0	25.0	99.8
p2 Cal 4-50ng	4	✓	50.0	48.7	97.4
p2 Cal 5-100ng	5	✓	100.0	102.7	102.7
p2 Cal 6-250ng	6	✓	250.0	250.1	100.1
p2 Cal 7-500ng	7	✓	500.0	503.3	100.7
p2 Cal 8-1000ng	8	✓	1000.0	995.2	99.5



D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin **Batch results**

Last Cal. Update

9/24/2019 9:38 AM

Analyst Name

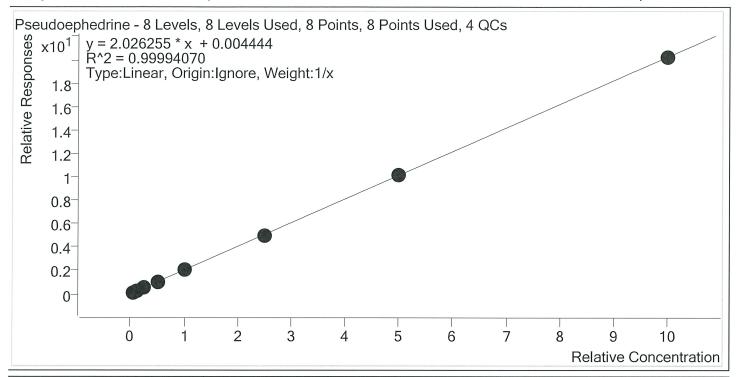
ISP\datastor

Analyte

Pseudoephedrine

Internal Standard

Pseudoephedrine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p2 Cal 1-5ng	1	✓	5.0	5.0	100.4
p2 Cal 2- 10ng	2	✓	10.0	10.1	100.7
p2 Cal 3 -25ng	3	✓	25.0	24.6	98.3
p2 Cal 4-50ng	4	✓	50.0	49.4	98.8
p2 Cal 5-100ng	5	✓	100.0	102.1	102.1
p2 Cal 6-250ng	6	✓	250.0	248.1	99.3
p2 Cal 7-500ng	7	✓	500.0	503.4	100.7
p2 Cal 8-1000ng	8	✓	1000.0	997.3	99.7



D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM Calibration Last Update

Instrument

Batch results

MDQ P2 Combined 092319.m P1-A7

2 9/23/2019 12:25:30 PM

Injection Volume Acq. Date-Time Sample Position

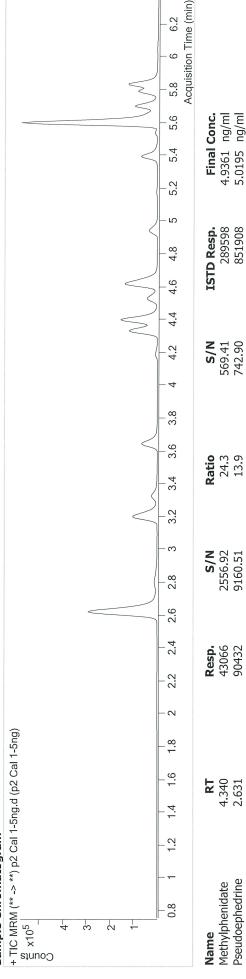
Acq. Method

Sample Info.

Operator Comment

Data File Sample

p2 Cal 1-5ng.d p2 Cal 1-5ng







Calibration Last Update Batch results

D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM

Instrument

MDQ P2 Combined 092319.m P1-B7

9/23/2019 12:36:10 PM

Injection Volume Sample Position

Acq. Method

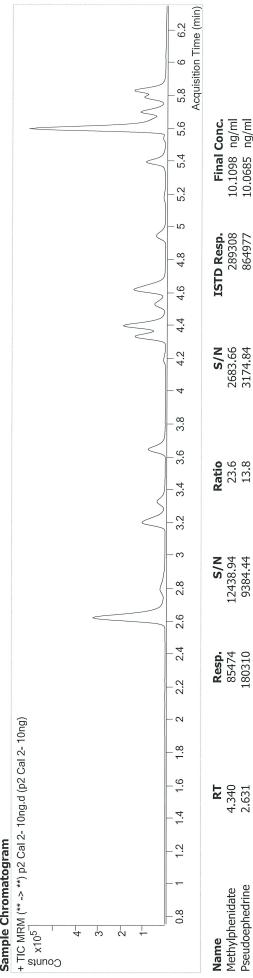
Acq. Date-Time

Sample Info.

Operator Comment Data File Sample

p2 Cal 2- 10ng.d p2 Cal 2- 10ng

Sample Chromatogram



10.1098 ng/ml 10.0685 ng/ml

Final Conc.

ISTD Resp. 289308 864977

S/N 2683.66 3174.84

Resp. 85474 180310

4.340 2.631

Pseudoephedrine Methylphenidate



D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM Calibration Last Update

Batch results

MDQ P2 Combined 092319.m P1-C7

2 9/23/2019 12:46:40 PM

Injection Volume Sample Position

Acq. Method

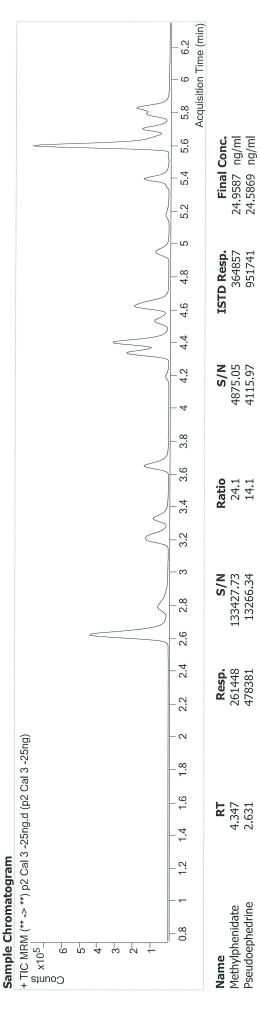
Instrument

Acq. Date-Time

Operator Comment Data File Sample

p2 Cal 3 -25ng.d p2 Cal 3 -25ng

Sample Info.







D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM

Calibration Last Update Batch results

MDQ P2 Combined 092319.m

9/23/2019 12:57:10 PM

P1-D7

Injection Volume Sample Position

Acq. Method

Type

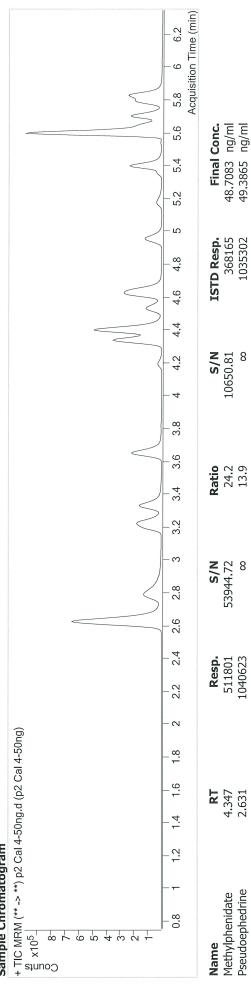
Instrument

Acq. Date-Time

Sample Info.

Operator Comment Data File Sample

p2 Cal 4-50ng.d p2 Cal 4-50ng





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Calibration Last Update $9/2^2$

Batch results

ralcu Cal MDQ P2 Combined 092319.m P1-E7

9/23/2019 1:07:40 PM

Sample Position Injection Volume

Acq. Method

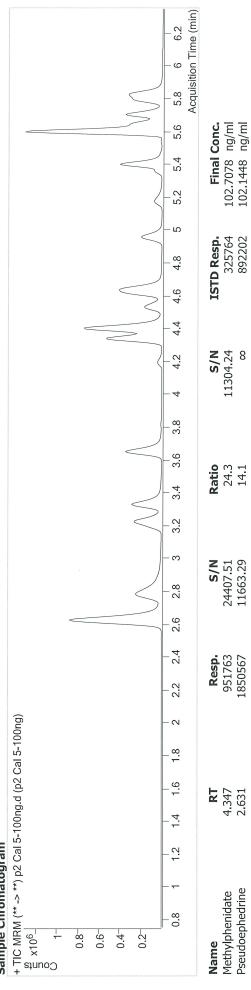
Instrument

Acq. Date-Time

Sample Info.

Data File Sample Operator Comment

p2 Cal 5-100ng.d p2 Cal 5-100ng







Batch resultsD:\MassHunter\LCalibration Last Update9/24/2019 9:38;

D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM

Instrument

Falco Cal

MDQ P2 Combined 092319.m P1-F7

9/23/2019 1:18:10 PM

Sample Position Injection Volume

Acq. Method

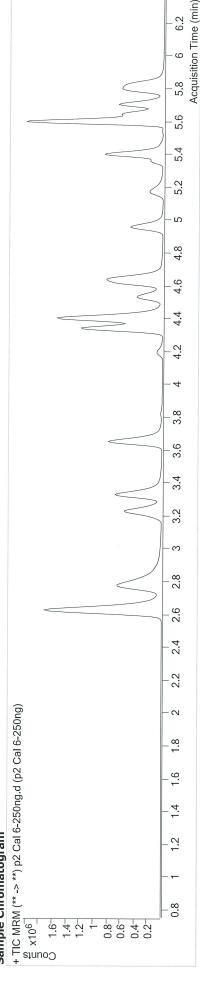
Acq. Date-Time

Sample Info.

Data File Sample Operator Comment

p2 Cal 6-250ng.d p2 Cal 6-250ng

Sample Chromatogram



250.1280 ng/ml 248.1427 ng/ml

ISTD Resp. 340211 888526

S/N 19849.33

Ratio 24.6 14.0

80093,64

2416396 4471458

4.347 2.631

Methylphenidate Pseudoephedrine

Name

Final Conc.





Calibration Last Update Batch results

D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM

Instrument

Acq. Method

MDQ P2 Combined 092319.m

p2 Cal 7-500ng.d p2 Cal 7-500ng

Sample Info.

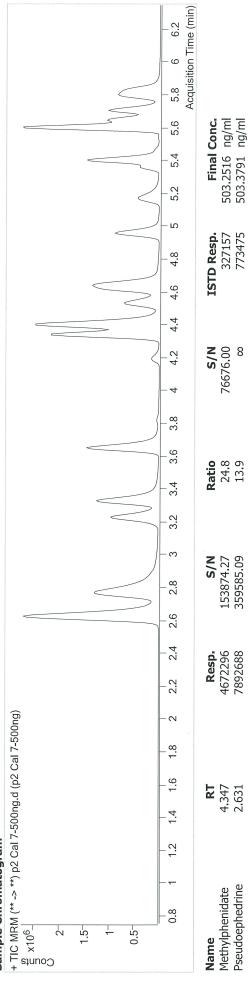
Injection Volume Sample Position

Acq. Date-Time

9/23/2019 1:28:40 PM P1-G7

Data File Sample Operator Comment









D:\MassHunter\Data\2019\AM 28\092319 MDQ P1 and P2 TS\QuantResults\MDQ P2 wklst 3704_only evaluated compounds.batch.bin 9/24/2019 9:38:41 AM Calibration Last Update

Instrument

Batch results

Sample Position Acq. Method

MDQ P2 Combined 092319.m P1-H7

9/23/2019 1:39:11 PM

Injection Volume

Acq. Date-Time

Sample Info.

Data File Sample Operator Comment

p2 Cal 8-1000ng.d p2 Cal 8-1000ng

