reviewed 6/8/18 amn

6/4/2018

Worklist: 2446

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-2300	1	117454	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(
P2018-1550	1	117497	AM 28 Blood Multi-Drug Quant Panel 2 by LC-Q(

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

P

Extraction Date: 06/04/18 Analyst: Sarah Pickle
Plate lot#: 0507680 Plate Expiration: 06/05/18

Mobile phase A: 5mM Amm Form + 0.01% FA **Mobile phase B:** 0.01% Formic Acid in MeOH
0.5M Ammonium Hydroxide Ethyl Acetate 20% Methanol in Water
Blank Blood Lot: 361331-1 **Column**: Agilent 120 EC-C18 (2.1x 100-4um)
LCMS-QQQ ID: 59740

Pre-Analytic:

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

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Pipette **250µL blood (calibrated pipette) Pipette ID: #3** in wells of analytical (standards) plate.
☒ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
☒ 4. Pipette **250µL 00.5M ammonium hydroxide** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
☒ 6. Transfer **300µL of blood+base** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). ***(Load at 85-100 PSI- Selector to the right)*** *Manifold ID: 067104*
☒ 8. Wait 5 minutes.
☒ 9. Add **900uL ethyl acetate.**
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 12. Add **900uL ethyl acetate.**
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 15 seconds. ***(10-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. *SPE Dry ID: 067103*
☒ 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
Worklist path: *060418 MDQ P1 P2 SP* Batch Name: *060418 MDQP2a SP*
☒ 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: *Curve Range Limited: Mitragynine 10-1000, Ondansetron 5-250, Maprotiline 5-500*
Did Not Evaluate: Benzoylecgonine, Levamisole, Mirtazapine

Cal 1 was ran on 6/5/18 due to incorrect sequence position in initial injection.

Idaho State Police
Forensic Services

AM #28 Blood Multi-Drug Confirmatory Analysis by LCMS-QQQ

Analyst: Sarah Pickle
Extraction Date: 06/04/18
Worklist Number: 2446

Reagent	*Lot Number*	*Expiration Date*	*Date in Service*	*Date Out of Service*	*Initials*
ToxBox Benzo/Opiate Quant Plate	0507680	06/05/2018			
Negative Blood	361331-1		05/25/18		
Methanol External Control Solution	121217	06/12/18	12/12/17		
Blood External Control Solution	WS121217	06/12/18	12/12/17		
0.5M Ammonium Hydroxide	032918	09/29/18	03/29/18		
Formic Acid (LCMS Grade)	095180B		11/15/17		
Water (LCMS Grade)	177528		03/5/18		
Methanol (LCMS Grade)	177145		04/11/18		
Ammonium Formate (LCMS Grade)	A0287238		01/30/17		
Ammonium Hydroxide (ACS grade or better)	053200		08/03/07		
Ethyl Acetate (ACS grade or better)	100362		06/26/17		
20% LCMS Methanol in LCMS Water	060418	Make fresh	06/04/18		
5mM Ammonium Formate + 0.01% Formic Acid in Water (Mobile Phase A)	060418		06/04/18		
0.01% Formic Acid in Methanol (Mobile Phase B)	031918		03/19/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	052918		05/29/18		

Methanol External Control Solution (Lot: 022018)
100 ul each 1 mg/mL stock solution in 9700 ul MeOH

Component	*Source*	*Source Lot Number*	*Expiration Date*
Methanol (LCMS)	Fisher	172516	
Zopiclone	Cerilliant	FE08291601	12/31/2021
Chlordiazepoxide	Cerilliant	FE07241502	08/31/2020
Flunitrazepam	Cerilliant	FE08051602	08/31/2021
Prepared:	02/20/18		
Prepared By:	Tamara Salazar		
Expires:	02/20/19		

Blood External Control Solution (Lot: WS022018)

50 ul of methanol external control solution was added to 9950 ul of blood.

Component	*Source*	*Source Lot Number*
Negative Blood	Hemostat	361331-3
Methanol External Control Solution		022018
Prepared:	02/20/18	
Prepared by:	Tamara Salazar	
Expires:	02/20/19	

0.5M Ammonium Hydroxide (Lot: 032918)

Component	*Source*	*Source Lot Number*
Ammonium Hydroxide (ACS grade or better)	Fisher	053200
DI Water	-	-
Prepared:	*03/29/18*	
Prepared By:	Tamara Salazar	
Expires:	*09/29/18*	

20% LCMS Methanol in LCMS Water (Lot: *Prepared Fresh*)

Component	*Source*	*Source Lot Number*
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	177528

5mM Ammonium Formate + 0.01% Formic Acid in Water (Lot: 060418)

Component	*Source*	*Source Lot Number*
Ammonium Formate	Arcos Organics	A0287238
LCMS Water	Fisher	177528
Formic Acid	Fisher	095180B
Prepared:	06/04/18	
Prepared By:	Sarah Pickle	

0.01% Formic Acid in LCMS Methanol (Mobile Phase B) (Lot: 031918)

Component	*Source*	*Source Lot Number*
Formic Acid	Fisher	095180B
MeOH (LCMS Grade)	Fisher	172517
Prepared:	03/19/18	
Prepared By:	Tamara Salazar	

Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 052918)

Component	*Source*	*Source Lot Number*
MeOH (LCMS Grade)	Fisher	177145
Water (LCMS Grade)	Fisher	177528
Prepared:	05/29/18	
Prepared By:	Tamara Salazar	

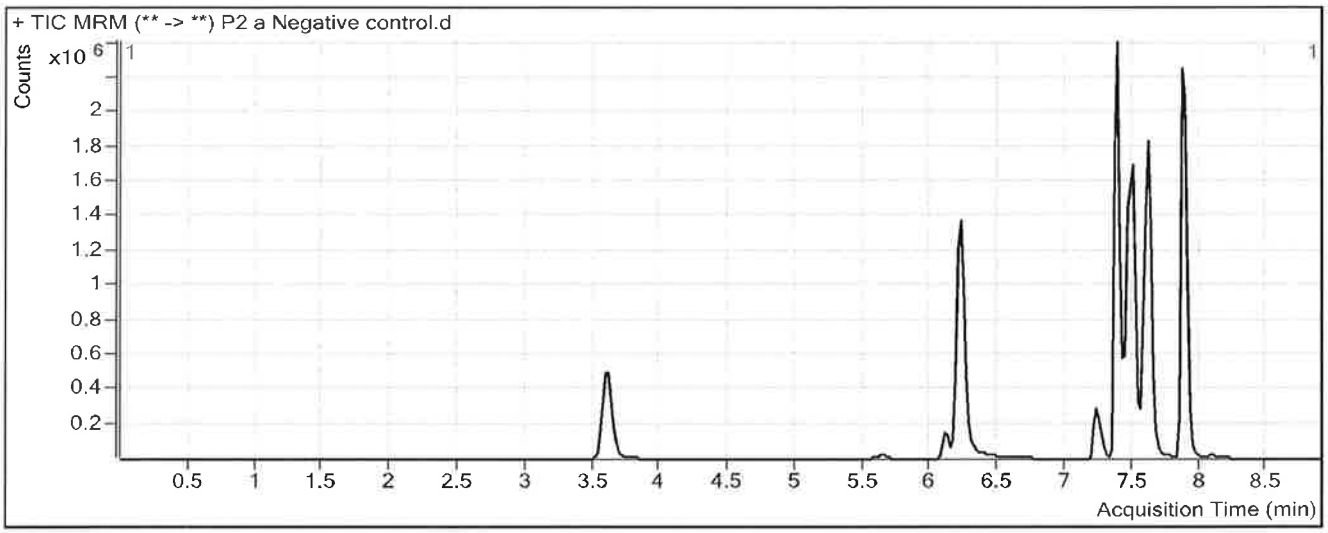
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.ba		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 17:34	**Data File**	P2 a Negative control.d
Sample Type	Sample	**Sample Name**	P2 a Negative control.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-E6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

D

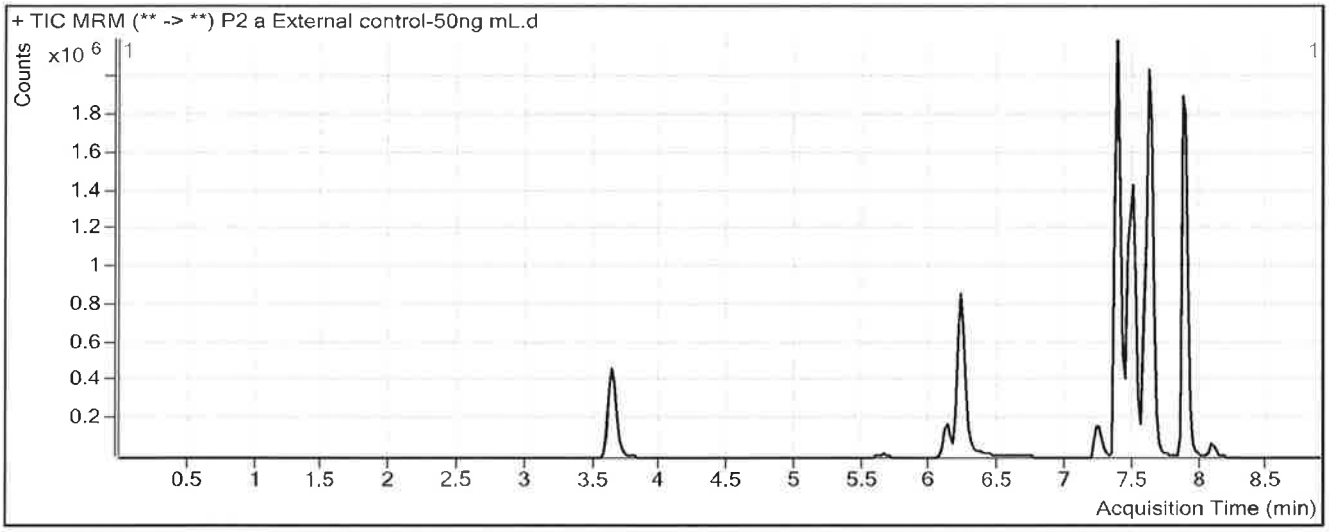
Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:41 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 17:50	**Data File**	P2 a External control-50ng mL.d
Sample Type	Sample	**Sample Name**	P2 a External control-50ng mL.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-F6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28; WS022018 50 ng flunitrazepam, zopiclone, chlorodiazepoxide

D'Lb.

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Zopiclone	Zopiclone-D4	6.109	152675	458609	0.3329	13.9520
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	1096514	2281012	0.4807	45.7825

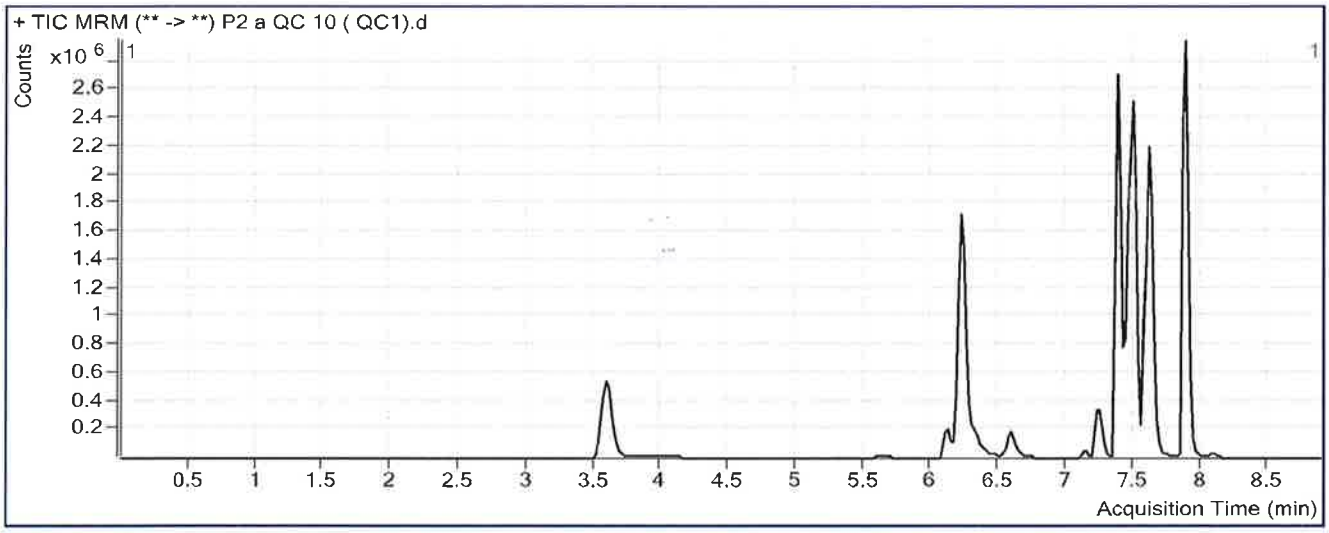
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:41 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 18:21	**Data File**	P2 a QC 10 (QC1).d
Sample Type	QC	**Sample Name**	P2 a QC 10 (QC1).d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-A6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.616	529507	2559270	0.2069	9.8624
~~Levamisole~~	~~Benzoylecgonine-d8~~	~~3.804~~	~~36003~~	~~45161~~	~~0.7972~~	~~3.5304~~ DNE P
~~Benzoylecgonine~~	~~Benzoylecgonine-d8~~	~~5.677~~	~~13720~~	~~45161~~	~~0.3038~~	~~9.3199~~ DNE P
Zopiclone	Zopiclone-D4	6.109	125671	614733	0.2044	9.5356
Cocaine	Cocaine-D3	6.192	510424	2271400	0.2247	9.8523
Methylphenidate	Methylphenidate-D4	6.248	981501	3521813	0.2787	9.0623
Metoprolol	Methylphenidate-D4	6.264	121044	3521813	0.0344	10.2727
Ondansetron	Carbamazepine-13C6	6.314	288464	6754274	0.0427	9.5681
~~Mirtazapine~~	~~Carbamazepine-13C6~~	~~6.587~~	~~425992~~	~~6754274~~	~~0.0631~~	~~9.9213~~ DNE P
Mitragynine	Doxepin-D3	7.133	129584	1206638	0.1074	10.3747
Doxepin	Doxepin-D3	7.225	200037	1206638	0.1658	9.5492
Carbamazepine	Carbamazepine-13C6	7.394	1021101	6754274	0.1512	9.4671
Protriptyline	Protriptyline-d3	7.472	277349	1530011	0.1813	9.1220
Estazolam	Estazolam-D5	7.484	561977	3056548	0.1839	10.2697
Amitriptyline	Amitriptyline-D3	7.487	499515	1145366	0.4361	9.7617
Maprotiline	Nortriptyline-d3	7.487	510117	1225063	0.4164	10.0544
Nortriptyline	Nortriptyline-d3	7.492	225794	1225063	0.1843	10.0737
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	460781	2592597	0.1777	10.0898
Midazolam	Midazolam-D4	7.601	129448	2271292	0.0570	9.7775

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a QC 10 (QC1) P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	221977	2691657	0.0825	9.7185
Phenazepam	Phenazepam-D4	7.657	73691	108208	0.6810	9.4331
Prazepam	Prazepam-D5	7.883	1520774	7665791	0.1984	8.9811

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

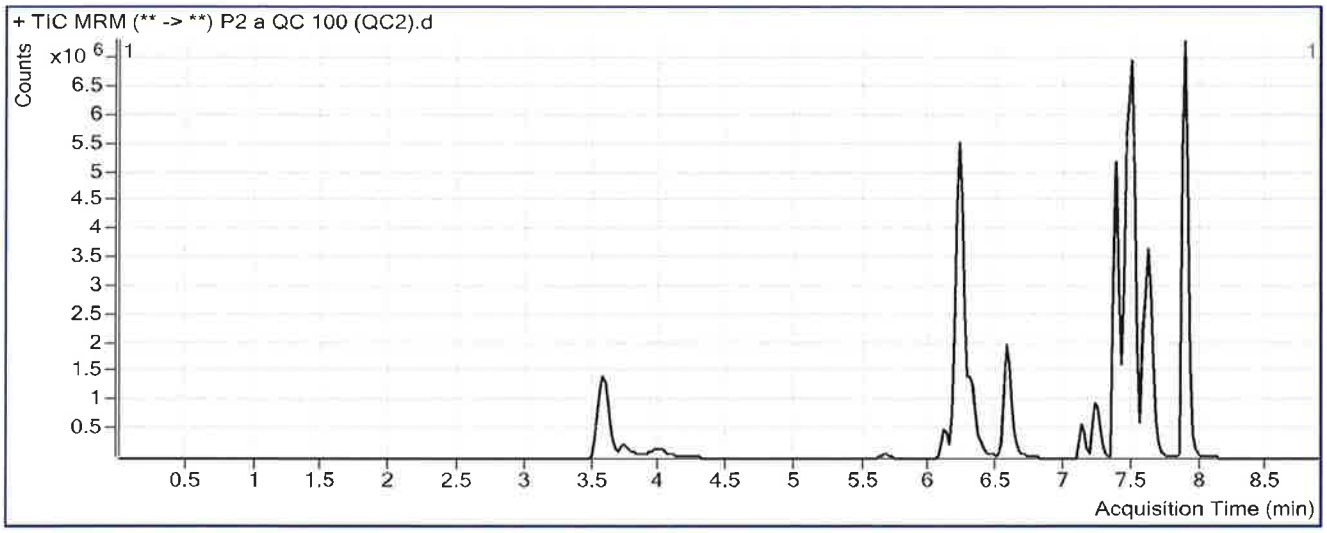
P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:41 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 19:24	**Data File**	P2 a QC 100 (QC2).d
Sample Type	QC	**Sample Name**	P2 a QC 100 (QC2).d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-B6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.576	5544879	2268067	2.4448	95.1049
~~Levamisole~~	~~Benzoylecgonine-d8~~	~~3.724~~	~~710188~~	~~40922~~	~~17.3548~~	~~40.1364~~ DNE P
~~Benzoylecgonine~~	~~Benzoylecgonine-d8~~	~~5.677~~	~~166982~~	~~40922~~	~~4.0805~~	~~131.3474~~ DNE P
Zopiclone	Zopiclone-D4	6.089	1126183	419627	2.6838	94.7626
Cocaine	Cocaine-D3	6.192	5243278	1956074	2.6805	97.3649
Methylphenidate	Methylphenidate-D4	6.228	9490020	3124424	3.0374	103.0078
Metoprolol	Methylphenidate-D4	6.244	1186854	3124424	0.3799	115.4685
Ondansetron	Carbamazepine-13C6	6.314	2983161	5070316	0.5884	98.5048
~~Mirtazapine~~	~~Carbamazepine-13C6~~	~~6.567~~	~~4546820~~	~~5070316~~	~~0.8968~~	~~99.2442~~ DNE P
Mitragynine	Doxepin-D3	7.113	1547308	1008589	1.5341	94.5961
Doxepin	Doxepin-D3	7.225	2027109	1008589	2.0098	94.9644
Carbamazepine	Carbamazepine-13C6	7.394	8770951	5070316	1.7299	103.6945
Protriptyline	Protriptyline-d3	7.472	2744032	1222098	2.2453	101.0827
Estazolam	Estazolam-D5	7.484	3967478	1865493	2.1268	92.5517
Amitriptyline	Amitriptyline-D3	7.487	4392997	932407	4.7115	100.1703
Maprotiline	Nortriptyline-d3	7.487	4421362	1041356	4.2458	87.6033
Nortriptyline	Nortriptyline-d3	7.492	2159591	1041356	2.0738	91.5958
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	3836287	1927168	1.9906	111.4468
Midazolam	Midazolam-D4	7.601	1310948	1832280	0.7155	95.5859

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a QC 100 (QC2) P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	1706579	1797092	0.9496	88.2465
Phenazepam	Phenazepam-D4	7.657	509379	58349	8.7299	108.7018
Prazepam	Prazepam-D5	7.883	13811114	6013927	2.2965	117.1608

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

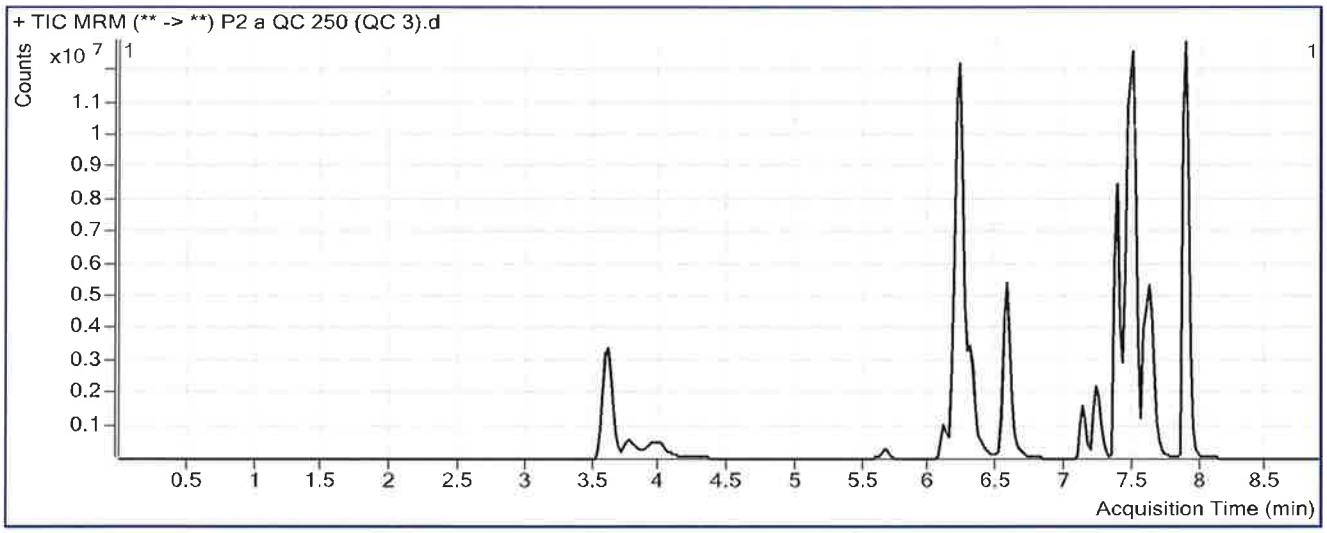
B

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:41 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 20:26	**Data File**	P2 a QC 250 (QC 3).d
Sample Type	QC	**Sample Name**	P2 a QC 250 (QC 3).d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-C6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.616	14199714	2242131	6.3331	243.2170
~~Levamisole~~	~~Benzoylecgonine-d8~~	~~3.764~~	~~1843010~~	~~40278~~	~~45.7576~~	~~102.9301~~ DNE P
~~Benzoylecgonine~~	Benzoylecgonine-d8	~~5.677~~	~~528258~~	~~40278~~	~~13.1154~~	~~423.2682~~ DNE P
Zopiclone	Zopiclone-D4	6.089	2520876	363448	6.9360	240.9329
Cocaine	Cocaine-D3	6.172	13927013	2018027	6.9013	247.7736
Methylphenidate	Methylphenidate-D4	6.228	24440748	3059932	7.9873	271.5774
Metoprolol	Methylphenidate-D4	6.244	2774599	3059932	0.9068	275.8954
Ondansetron	Carbamazepine-13C6	6.294	7741568	4127020	1.8758	308.3522
~~Mirtazapine~~	~~Carbamazepine-13C6~~	~~6.567~~	~~12034094~~	~~4127020~~	~~2.9159~~	~~315.5837~~ DNE P
Mitragynine	Doxepin-D3	7.113	4445578	1044193	4.2574	255.3542
Doxepin	Doxepin-D3	7.225	5605184	1044193	5.3680	250.5085
Carbamazepine	Carbamazepine-13C6	7.394	17792224	4127020	4.3112	257.7649
Protriptyline	Protriptyline-d3	7.452	6065043	1075962	5.6369	252.1850
Estazolam	Estazolam-D5	7.484	6492577	1153421	5.6290	240.8697
Amitriptyline	Amitriptyline-D3	7.487	10420334	889382	11.7164	248.2999
Maprotiline	Nortriptyline-d3	7.487	10461843	919469	11.3781	232.0411
Nortriptyline	Nortriptyline-d3	7.492	4805647	919469	5.2265	227.6182
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	7626174	1579787	4.8273	270.0430
Midazolam	Midazolam-D4	7.601	3045951	1732955	1.7577	231.3962

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a QC 250 (QC 3)

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	3203103	1347524	2.3770	217.5072
Phenazepam	Phenazepam-D4	7.657	886907	37006	23.9663	296.6150
Prazepam	Prazepam-D5	7.883	30485406	5402164	5.6432	289.7142

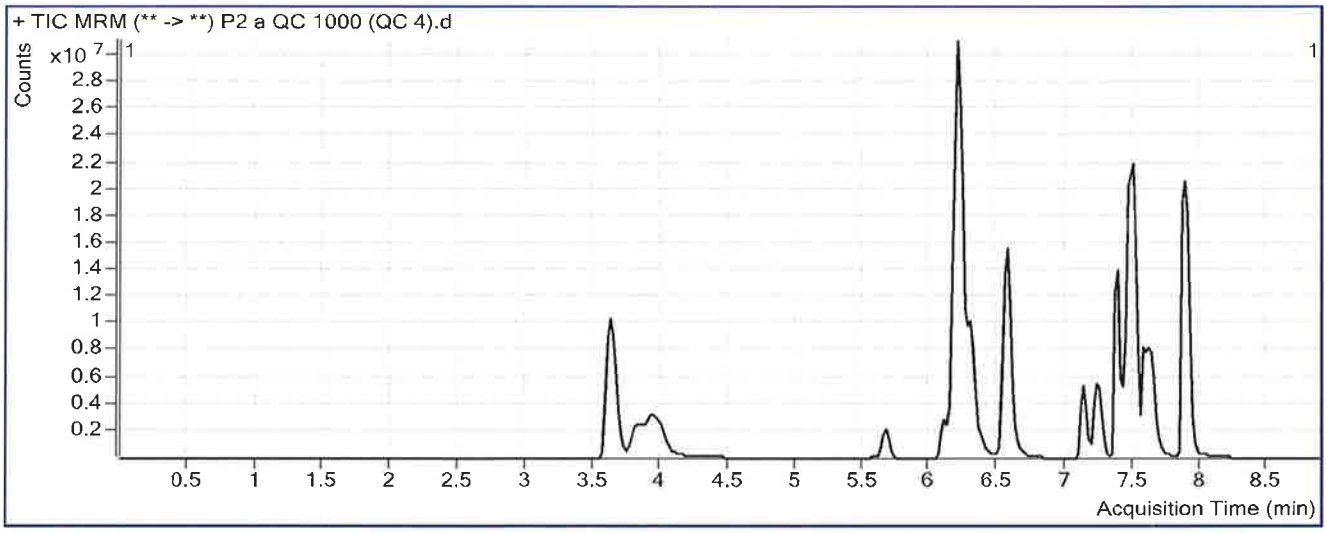
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:42 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 20:57	**Data File**	P2 a QC 1000 (QC 4).d
Sample Type	QC	**Sample Name**	P2 a QC 1000 (QC 4).d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-D6	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.636	47882502	1803369	26.5517	1013.3627
~~Levamisole~~	~~Benzoylecgonine-d8~~	~~3.945~~	~~22060511~~	~~42387~~	~~520.4519~~	~~1152.3990~~ DNE P
~~Benzoylecgonine~~	~~Benzoylecgonine-d8~~	~~5.677~~	~~3829196~~	~~42387~~	~~90.3385~~	~~2918.3815~~ DNE P
Zopiclone	Zopiclone-D4	6.089	7951698	271045	29.3371	1010.9695
Cocaine	Cocaine-D3	6.172	45972466	1658067	27.7265	989.8844
Methylphenidate	Methylphenidate-D4	6.228	60115841	2155219	27.8931	949.4610
Metoprolol	Methylphenidate-D4	6.244	6634586	2155219	3.0784	937.1124
~~Ondansetron~~	~~Carbamazepine-13C6~~	~~6.294~~	~~25139631~~	~~2066696~~	~~12.1642~~	~~1985.2731~~ outside curve range P
~~Mirtazapine~~	~~Carbamazepine-13C6~~	~~6.567~~	~~37640918~~	~~2066696~~	~~18.2131~~	~~1954.5600~~ DNE P
Mitragynine	Doxepin-D3	7.113	14829572	710173	20.8816	1236.6923
Doxepin	Doxepin-D3	7.225	16171818	710173	22.7717	1056.6295
Carbamazepine	Carbamazepine-13C6	7.394	34113664	2066696	16.5064	985.6645
Protriptyline	Protriptyline-d3	7.452	11529380	487411	23.6543	1054.9192
Estazolam	Estazolam-D5	7.484	9918597	390945	25.3708	1076.9354
Amitriptyline	Amitriptyline-D3	7.467	23352563	532251	43.8751	928.3433
~~Maprotiline~~	~~Nortriptyline-d3~~	~~7.487~~	~~22883428~~	~~465493~~	~~49.1595~~	~~997.1542~~ outside curve range P
Nortriptyline	Nortriptyline-d3	7.492	10248654	465493	22.0168	952.0230
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.559	14782937	811705	18.2122	1018.3720
Midazolam	Midazolam-D4	7.620	8547810	1136933	7.5183	982.0808

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a QC 1000 (QC 4)

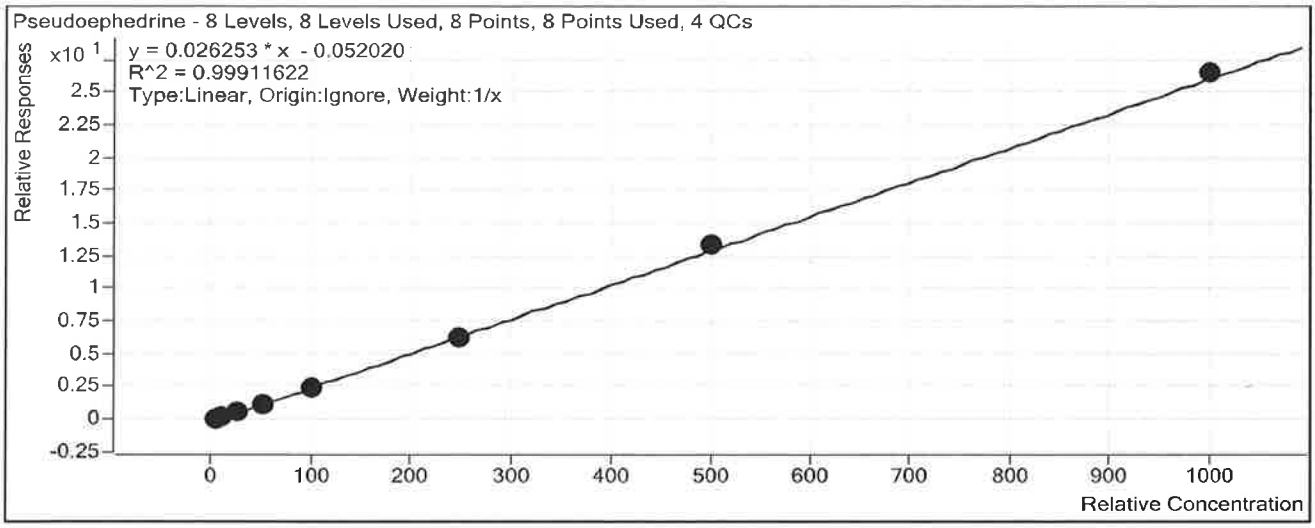
P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.643	6030057	574527	10.4957	952.7096
Phenazepam	Phenazepam-D4	7.657	1702466	22136	76.9111	949.5930
Prazepam	Prazepam-D5	7.883	60029411	3471163	17.2937	890.4155

ISP Forensics
Calibration Curve Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Last Calib Update	6/6/2018 10:25 AM	**Analyst Name**	ISP TOX

Target Compound *Pseudoephedrine*
Internal Standard *Pseudoephedrine-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	6.0	120.8
P2 a cal 2-10ng.d	2	☑	10	9.9	98.9
P2 a QC 10 (QC1).d	2	☑	10	9.9	98.6
P2 a cal 3-25ng.d	3	☑	25	22.6	90.4
P2 a cal 4-50ng.d	4	☑	50	47.7	95.5
P2 a cal 5-100ng.d	5	☑	100	96.5	96.5
P2 a QC 100 (QC2).d	5	☑	100	95.1	95.1
P2 a cal 6-250ng.d	6	☑	250	237.6	95.1
P2 a QC 250 (QC 3).d	6	☑	250	243.2	97.3
P2 a cal 7-500ng.d	7	☑	500	509.6	101.9
P2 a cal 8-1000ng.d	8	☑	1000	1010.0	101.0
P2 a QC 1000 (QC 4).d	8	☑	1000	1013.4	101.3

ISP Forensics
Calibration Curve Report

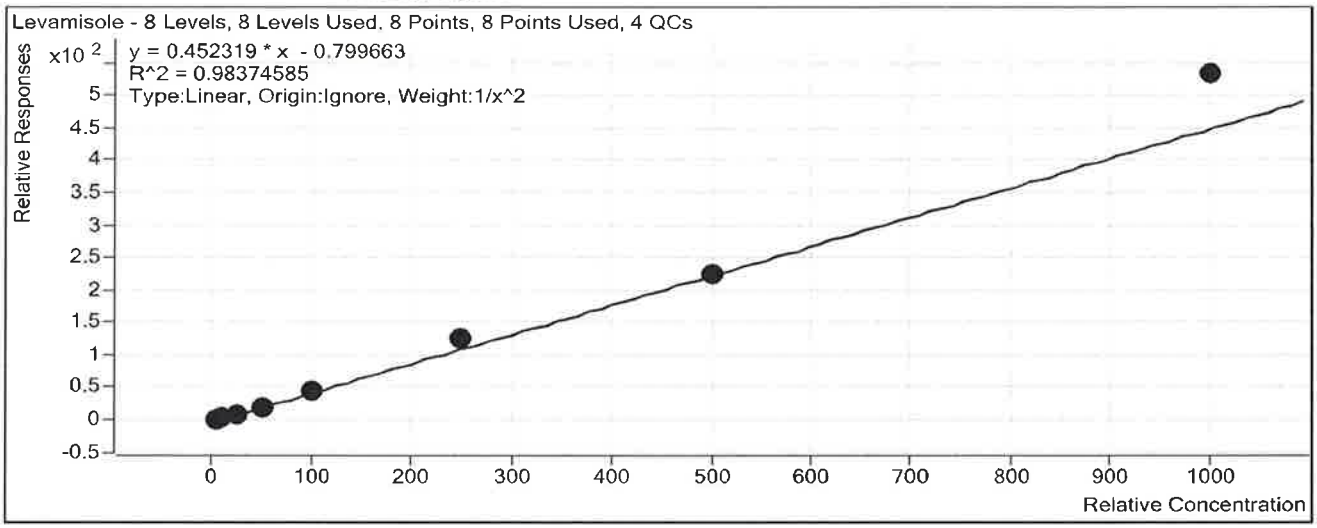
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Levamisole*

Internal Standard *Benzoylecgonine-d8*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.4	108.7
P2 a cal 2-10ng.d	2	☑	10	8.9	89.2
P2 a QC 10 (QC1).d	2	☑	10	3.5	35.3
P2 a cal 3-25ng.d	3	☑	25	22.0	88.0
P2 a cal 4-50ng.d	4	☑	50	45.0	90.0
P2 a cal 5-100ng.d	5	☑	100	96.2	96.2
P2 a QC 100 (QC2).d	5	☑	100	40.1	40.1
P2 a cal 6-250ng.d	6	☑	250	275.4	110.2
P2 a QC 250 (QC 3).d	6	☑	250	102.9	41.2
P2 a cal 7-500ng.d	7	☑	500	499.1	99.8
P2 a cal 8-1000ng.d	8	☑	1000	1178.7	117.9
P2 a QC 1000 (QC 4).d	8	☑	1000	1152.4	115.2

P

Did not evaluate levamisole due to poor peak shape.

ISP Forensics
Calibration Curve Report

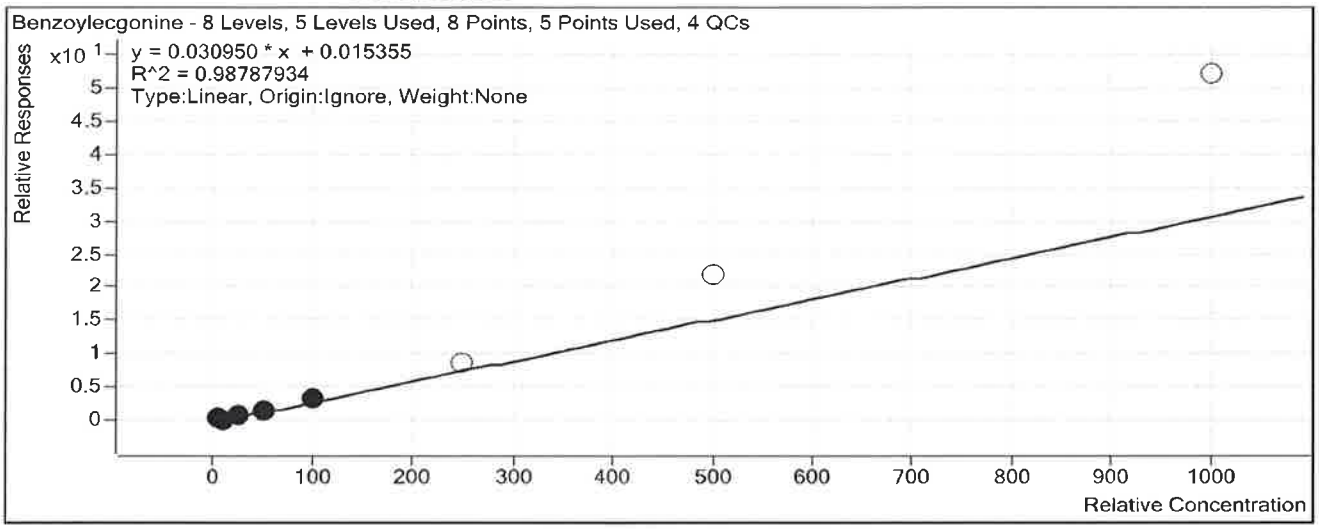
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Benzoylecgonine*

Internal Standard *Benzoylecgonine-d8*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	11.7	233.9
P2 a cal 2-10ng.d	2	☑	10	6.6	66.1
P2 a QC 10 (QC1).d	2	☑	10	9.3	93.2
P2 a cal 3-25ng.d	3	☑	25	22.3	89.1
P2 a cal 4-50ng.d	4	☑	50	47.5	94.9
P2 a cal 5-100ng.d	5	☑	100	102.0	102.0
P2 a QC 100 (QC2).d	5	☑	100	131.3	131.3
P2 a cal 6-250ng.d	6	☐	250	278.3	111.3
P2 a QC 250 (QC 3).d	6	☑	250	423.3	169.3
P2 a cal 7-500ng.d	7	☐	500	706.8	141.4
P2 a cal 8-1000ng.d	8	☐	1000	1678.8	167.9
P2 a QC 1000 (QC 4).d	8	☐	1000	2918.4	291.8

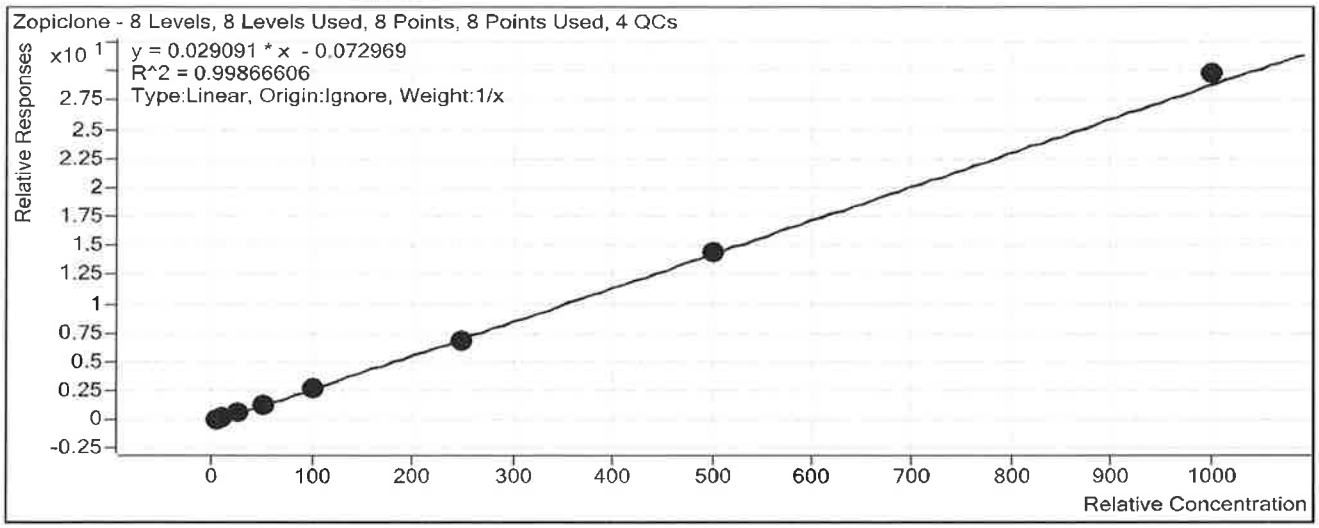
P

Did not evaluate Benzoylecgonine due to poor accuracy.

ISP Forensics
Calibration Curve Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Last Calib Update	6/6/2018 10:25 AM	**Analyst Name**	ISP TOX

Target Compound *Zopiclone*
Internal Standard *Zopiclone-D4*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	6.3	125.2
P2 a cal 2-10ng.d	2	☑	10	10.0	100.5
P2 a QC 10 (QC1).d	2	☑	10	9.5	95.4
P2 a cal 3-25ng.d	3	☑	25	22.7	90.7
P2 a cal 4-50ng.d	4	☑	50	46.0	92.1
P2 a cal 5-100ng.d	5	☑	100	94.1	94.1
P2 a QC 100 (QC2).d	5	☑	100	94.8	94.8
P2 a cal 6-250ng.d	6	☑	250	239.0	95.6
P2 a QC 250 (QC 3).d	6	☑	250	240.9	96.4
P2 a cal 7-500ng.d	7	☑	500	496.2	99.2
P2 a cal 8-1000ng.d	8	☑	1000	1025.7	102.6
P2 a QC 1000 (QC 4).d	8	☑	1000	1011.0	101.1

ISP Forensics
Calibration Curve Report

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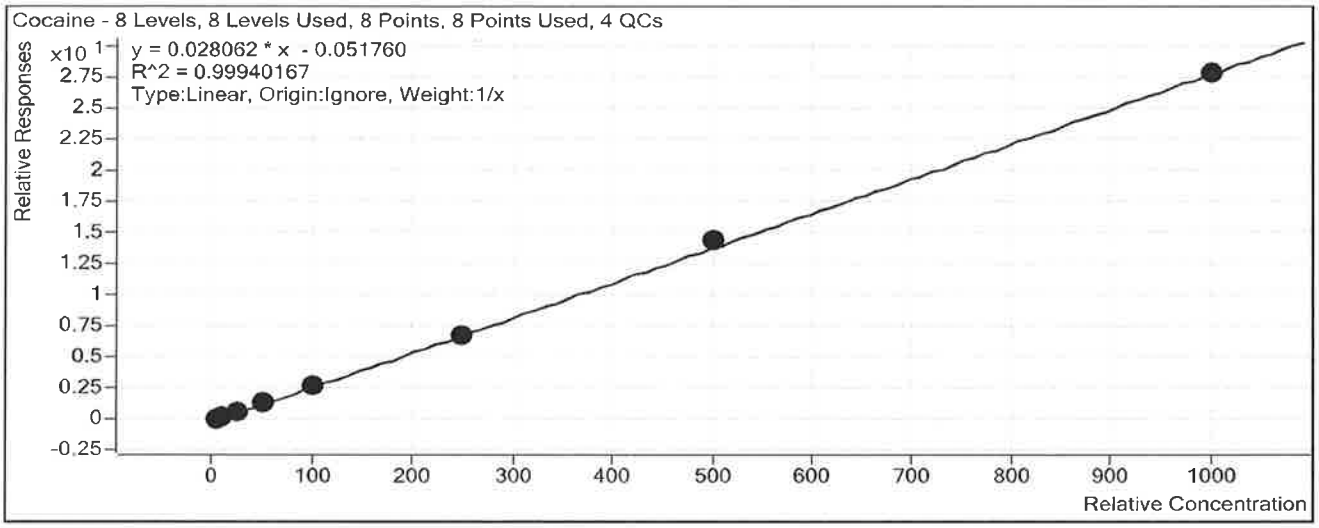
Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Cocaine*

Internal Standard *Cocaine-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.8	115.9
P2 a cal 2-10ng.d	2	☑	10	9.7	97.4
P2 a QC 10 (QC1).d	2	☑	10	9.9	98.5
P2 a cal 3-25ng.d	3	☑	25	22.9	91.6
P2 a cal 4-50ng.d	4	☑	50	47.9	95.7
P2 a cal 5-100ng.d	5	☑	100	99.4	99.4
P2 a QC 100 (QC2).d	5	☑	100	97.4	97.4
P2 a cal 6-250ng.d	6	☑	250	243.5	97.4
P2 a QC 250 (QC 3).d	6	☑	250	247.8	99.1
P2 a cal 7-500ng.d	7	☑	500	515.3	103.1
P2 a cal 8-1000ng.d	8	☑	1000	995.4	99.5
P2 a QC 1000 (QC 4).d	8	☑	1000	989.9	99.0

ISP Forensics
Calibration Curve Report

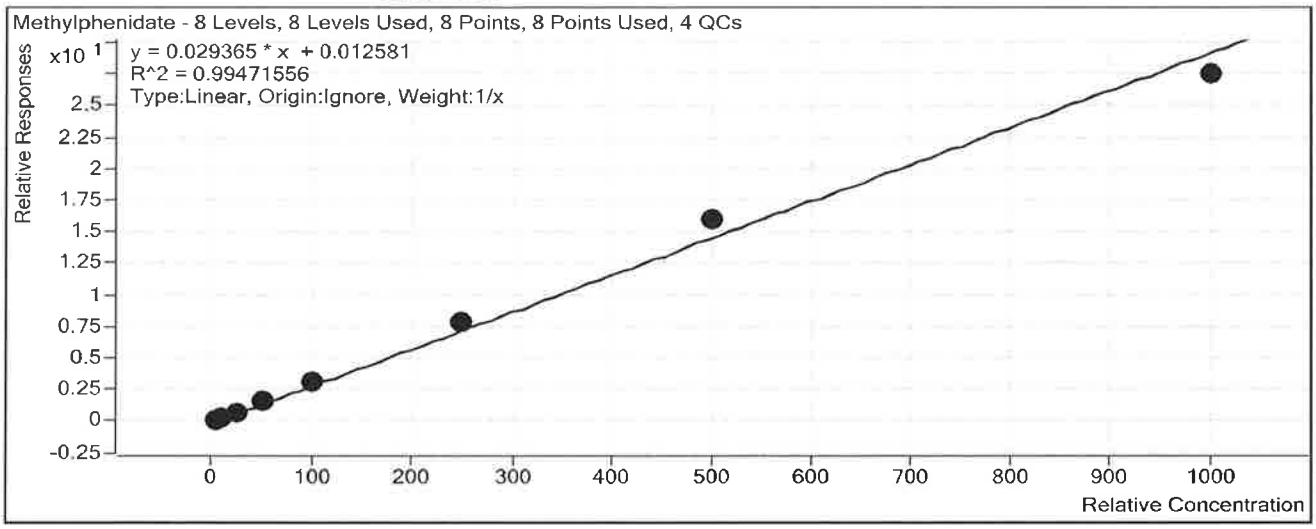
D

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Methylphenidate*

Internal Standard *Methylphenidate-D4*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	4.6	92.2
P2 a cal 2-10ng.d	2	☑	10	9.2	91.9
P2 a QC 10 (QC1).d	2	☑	10	9.1	90.6
P2 a cal 3-25ng.d	3	☑	25	24.1	96.5
P2 a cal 4-50ng.d	4	☑	50	51.8	103.7
P2 a cal 5-100ng.d	5	☑	100	107.6	107.6
P2 a QC 100 (QC2).d	5	☑	100	103.0	103.0
P2 a cal 6-250ng.d	6	☑	250	265.7	106.3
P2 a QC 250 (QC 3).d	6	☑	250	271.6	108.6
P2 a cal 7-500ng.d	7	☑	500	541.6	108.3
P2 a cal 8-1000ng.d	8	☑	1000	935.3	93.5
P2 a QC 1000 (QC 4).d	8	☑	1000	949.5	94.9

ISP Forensics
Calibration Curve Report

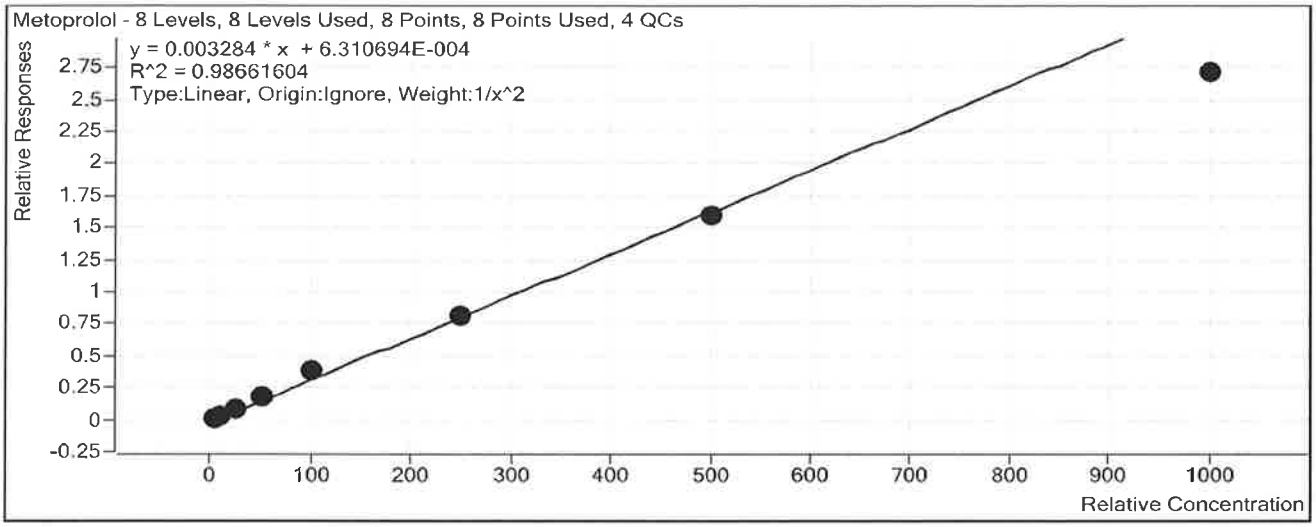
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Metoprolol*

Internal Standard *Methylphenidate-D4*

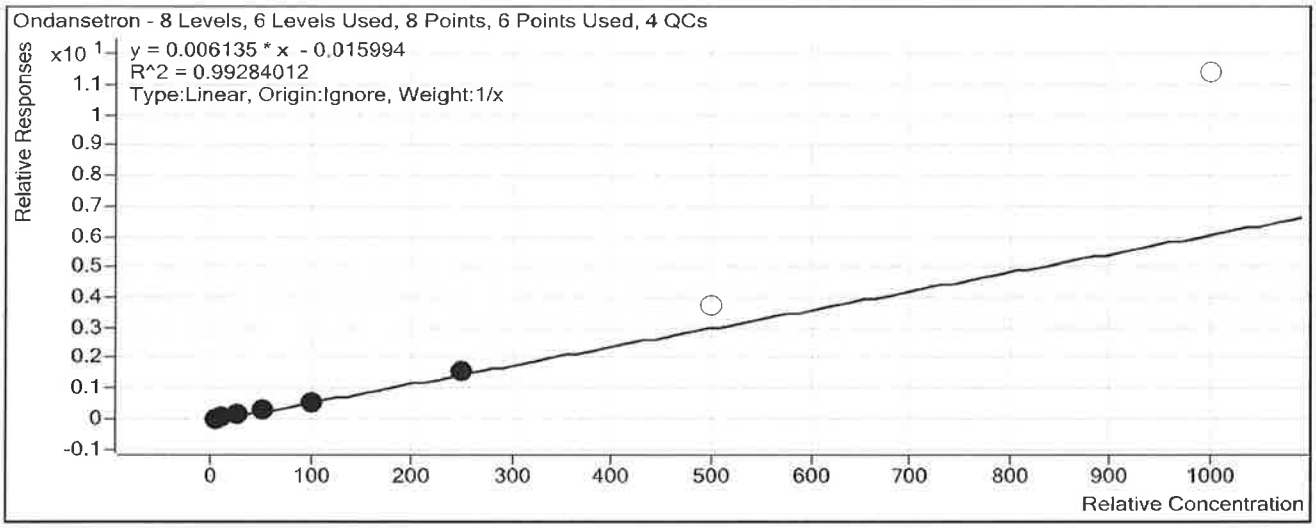


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.1	101.4
P2 a cal 2-10ng.d	2	☑	10	9.4	93.9
P2 a QC 10 (QC1).d	2	☑	10	10.3	102.7
P2 a cal 3-25ng.d	3	☑	25	24.8	99.2
P2 a cal 4-50ng.d	4	☑	50	55.9	111.7
P2 a cal 5-100ng.d	5	☑	100	114.9	114.9
P2 a QC 100 (QC2).d	5	☑	100	115.5	115.5
P2 a cal 6-250ng.d	6	☑	250	247.2	98.9
P2 a QC 250 (QC 3).d	6	☑	250	275.9	110.4
P2 a cal 7-500ng.d	7	☑	500	487.3	97.5
P2 a cal 8-1000ng.d	8	☑	1000	824.7	82.5
P2 a QC 1000 (QC 4).d	8	☑	1000	937.1	93.7

ISP Forensics
Calibration Curve Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Last Calib Update	6/6/2018 10:25 AM	**Analyst Name**	ISP TOX

Target Compound *Ondansetron*
Internal Standard *Carbamazepine-13C6*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	6.5	129.6
P2 a cal 2-10ng.d	2	☑	10	9.5	95.2
P2 a QC 10 (QC1).d	2	☑	10	9.6	95.7
P2 a cal 3-25ng.d	3	☑	25	21.0	84.1
P2 a cal 4-50ng.d	4	☑	50	46.0	92.1
P2 a cal 5-100ng.d	5	☑	100	93.8	93.8
P2 a QC 100 (QC2).d	5	☑	100	98.5	98.5
P2 a cal 6-250ng.d	6	☑	250	263.1	105.2
P2 a QC 250 (QC 3).d	6	☑	250	308.4	123.3
P2 a cal 7-500ng.d	7	☐	500	617.7	123.5
P2 a cal 8-1000ng.d	8	☐	1000	1853.8	185.4
P2 a QC 1000 (QC 4).d	8	☐	1000	1985.3	198.5

ISP Forensics
Calibration Curve Report

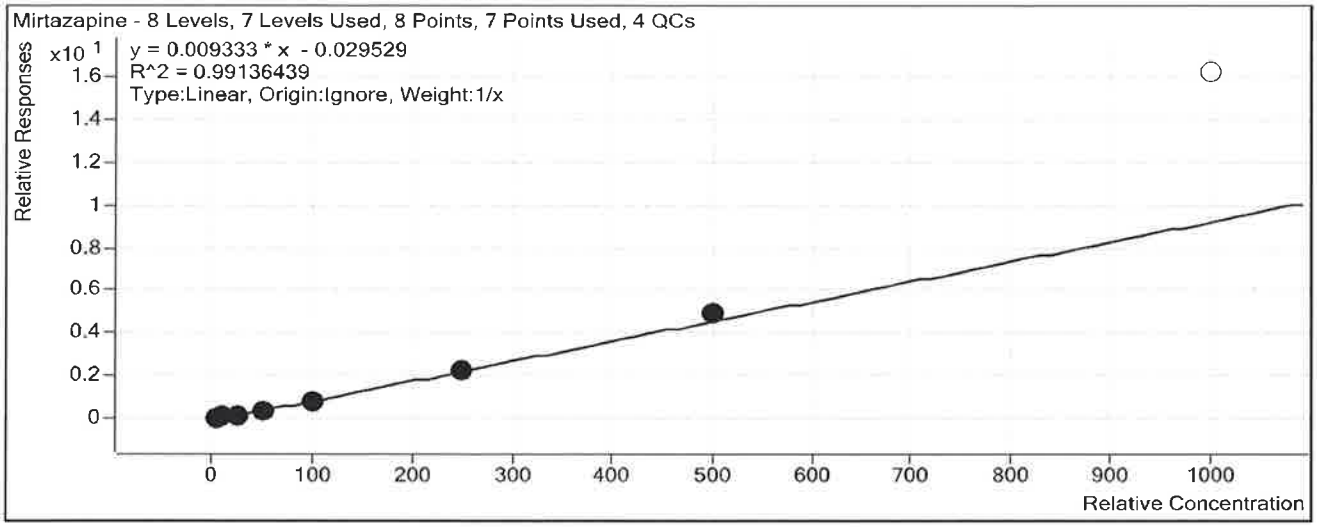
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Mirtazapine*

Internal Standard *Carbamazepine-13C6*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	7.4	147.7
P2 a cal 2-10ng.d	2	☑	10	9.9	98.7
P2 a QC 10 (QC1).d	2	☑	10	9.9	99.2
P2 a cal 3-25ng.d	3	☑	25	19.4	77.8
P2 a cal 4-50ng.d	4	☑	50	43.1	86.2
P2 a cal 5-100ng.d	5	☑	100	85.1	85.1
P2 a QC 100 (QC2).d	5	☑	100	99.2	99.2
P2 a cal 6-250ng.d	6	☑	250	247.9	99.2
P2 a QC 250 (QC 3).d	6	☑	250	315.6	126.2
P2 a cal 7-500ng.d	7	☑	500	527.2	105.4
P2 a cal 8-1000ng.d	8	☐	1000	1737.9	173.8
P2 a QC 1000 (QC 4).d	8	☐	1000	1954.6	195.5

P

Did not evaluate Mirtazapine due to poor accuracy.

ISP Forensics
Calibration Curve Report

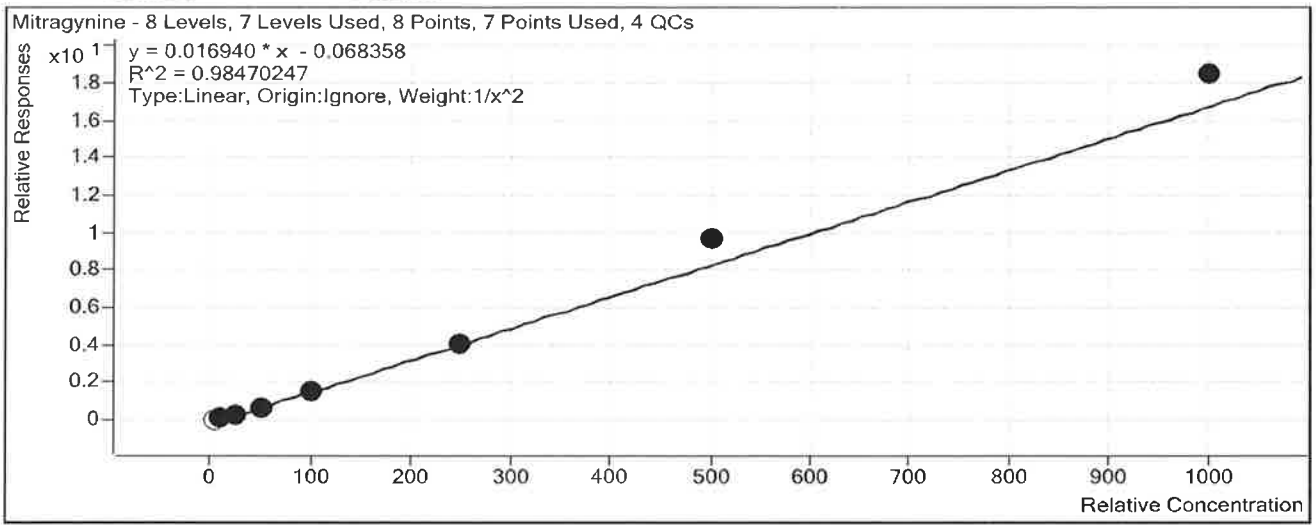
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Mitragynine*

Internal Standard *Doxepin-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☐	5	7.6	151.7
P2 a cal 2-10ng.d	2	☑	10	10.7	107.3
P2 a QC 10 (QC1).d	2	☑	10	10.4	103.7
P2 a cal 3-25ng.d	3	☑	25	21.8	87.2
P2 a cal 4-50ng.d	4	☑	50	45.8	91.6
P2 a cal 5-100ng.d	5	☑	100	91.7	91.7
P2 a QC 100 (QC2).d	5	☑	100	94.6	94.6
P2 a cal 6-250ng.d	6	☑	250	243.9	97.6
P2 a QC 250 (QC 3).d	6	☑	250	255.4	102.1
P2 a cal 7-500ng.d	7	☑	500	576.6	115.3
P2 a cal 8-1000ng.d	8	☑	1000	1093.4	109.3
P2 a QC 1000 (QC 4).d	8	☐	1000	1236.7	123.7

ISP Forensics
Calibration Curve Report

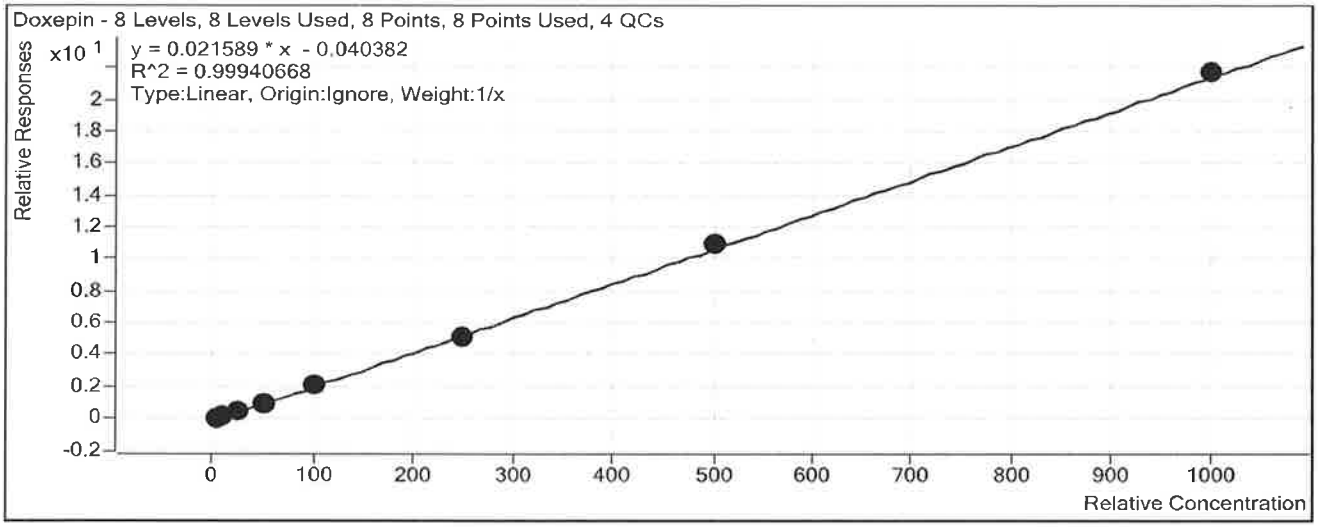
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Doxepin*

Internal Standard *Doxepin-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.9	118.2
P2 a cal 2-10ng.d	2	☑	10	10.0	100.3
P2 a QC 10 (QC1).d	2	☑	10	9.5	95.5
P2 a cal 3-25ng.d	3	☑	25	22.4	89.8
P2 a cal 4-50ng.d	4	☑	50	47.1	94.1
P2 a cal 5-100ng.d	5	☑	100	98.8	98.8
P2 a QC 100 (QC2).d	5	☑	100	95.0	95.0
P2 a cal 6-250ng.d	6	☑	250	241.6	96.6
P2 a QC 250 (QC 3).d	6	☑	250	250.5	100.2
P2 a cal 7-500ng.d	7	☑	500	507.3	101.5
P2 a cal 8-1000ng.d	8	☑	1000	1006.8	100.7
P2 a QC 1000 (QC 4).d	8	☑	1000	1056.6	105.7

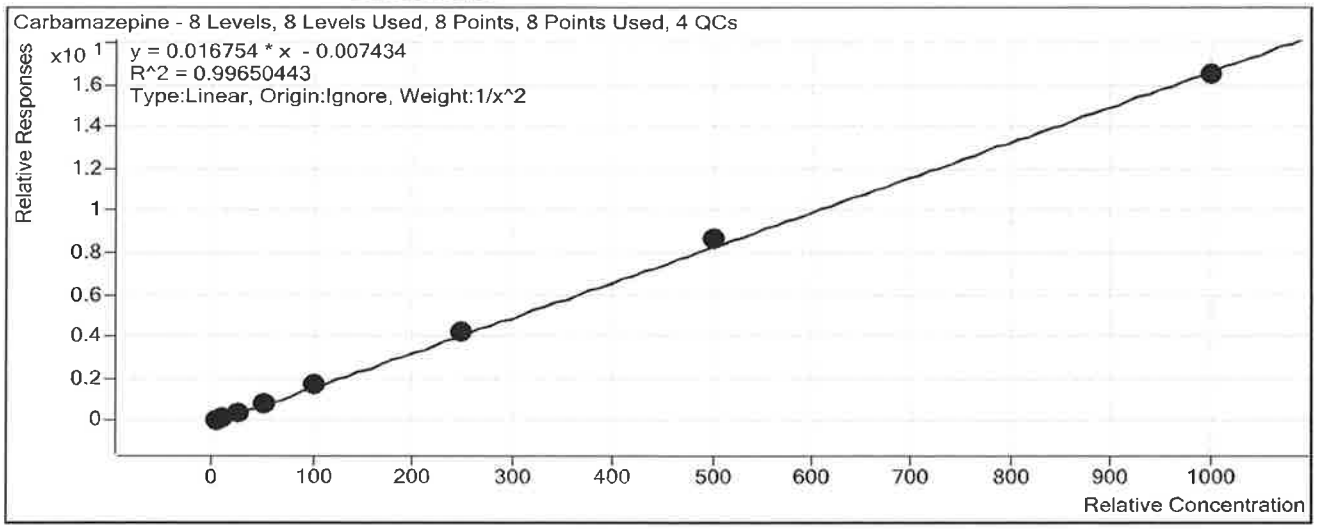
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Carbamazepine*

Internal Standard *Carbamazepine-13C6*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.2	104.8
P2 a cal 2-10ng.d	2	☑	10	9.2	92.4
P2 a QC 10 (QC1).d	2	☑	10	9.5	94.7
P2 a cal 3-25ng.d	3	☑	25	23.1	92.2
P2 a cal 4-50ng.d	4	☑	50	51.1	102.2
P2 a cal 5-100ng.d	5	☑	100	104.3	104.3
P2 a QC 100 (QC2).d	5	☑	100	103.7	103.7
P2 a cal 6-250ng.d	6	☑	250	253.9	101.5
P2 a QC 250 (QC 3).d	6	☑	250	257.8	103.1
P2 a cal 7-500ng.d	7	☑	500	519.9	104.0
P2 a cal 8-1000ng.d	8	☑	1000	984.7	98.5
P2 a QC 1000 (QC 4).d	8	☑	1000	985.7	98.6

ISP Forensics
Calibration Curve Report

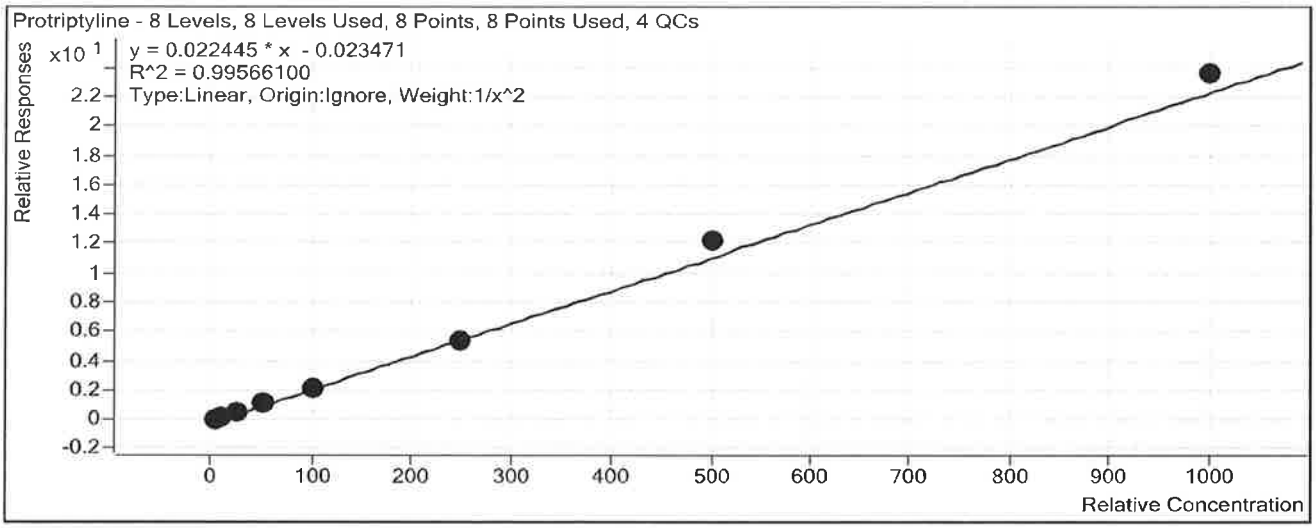
P

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Protriptyline*

Internal Standard *Protriptyline-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.2	104.4
P2 a cal 2-10ng.d	2	☑	10	9.5	94.7
P2 a QC 10 (QC1).d	2	☑	10	9.1	91.2
P2 a cal 3-25ng.d	3	☑	25	22.9	91.5
P2 a cal 4-50ng.d	4	☑	50	49.6	99.1
P2 a cal 5-100ng.d	5	☑	100	99.2	99.2
P2 a QC 100 (QC2).d	5	☑	100	101.1	101.1
P2 a cal 6-250ng.d	6	☑	250	243.1	97.2
P2 a QC 250 (QC 3).d	6	☑	250	252.2	100.9
P2 a cal 7-500ng.d	7	☑	500	543.4	108.7
P2 a cal 8-1000ng.d	8	☑	1000	1051.1	105.1
P2 a QC 1000 (QC 4).d	8	☑	1000	1054.9	105.5

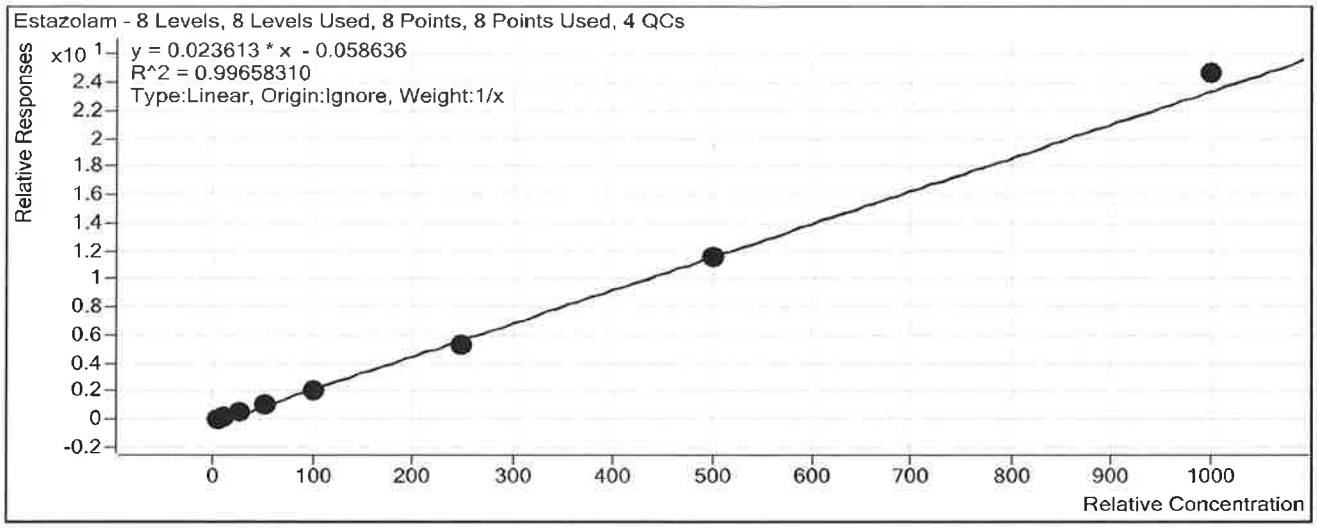
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Estazolam*

Internal Standard *Estazolam-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	6.4	128.4
P2 a cal 2-10ng.d	2	☑	10	10.4	103.8
P2 a QC 10 (QC1).d	2	☑	10	10.3	102.7
P2 a cal 3-25ng.d	3	☑	25	22.8	91.1
P2 a cal 4-50ng.d	4	☑	50	46.0	92.0
P2 a cal 5-100ng.d	5	☑	100	91.1	91.1
P2 a QC 100 (QC2).d	5	☑	100	92.6	92.6
P2 a cal 6-250ng.d	6	☑	250	227.3	90.9
P2 a QC 250 (QC 3).d	6	☑	250	240.9	96.3
P2 a cal 7-500ng.d	7	☑	500	490.2	98.0
P2 a cal 8-1000ng.d	8	☑	1000	1045.8	104.6
P2 a QC 1000 (QC 4).d	8	☑	1000	1076.9	107.7

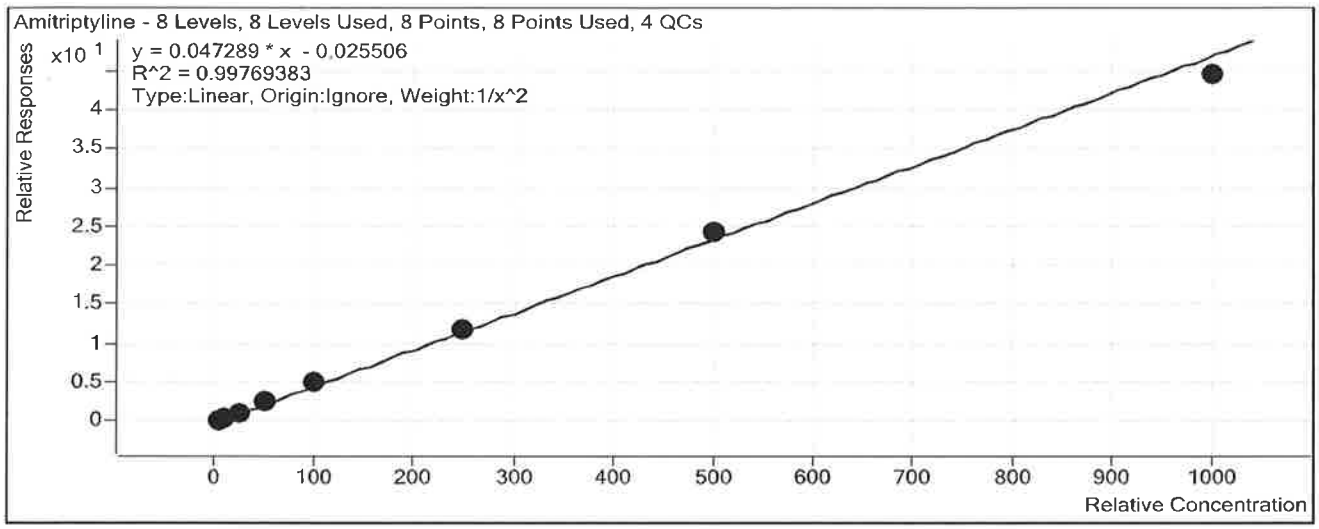
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Amitriptyline*

Internal Standard *Amitriptyline-D3*

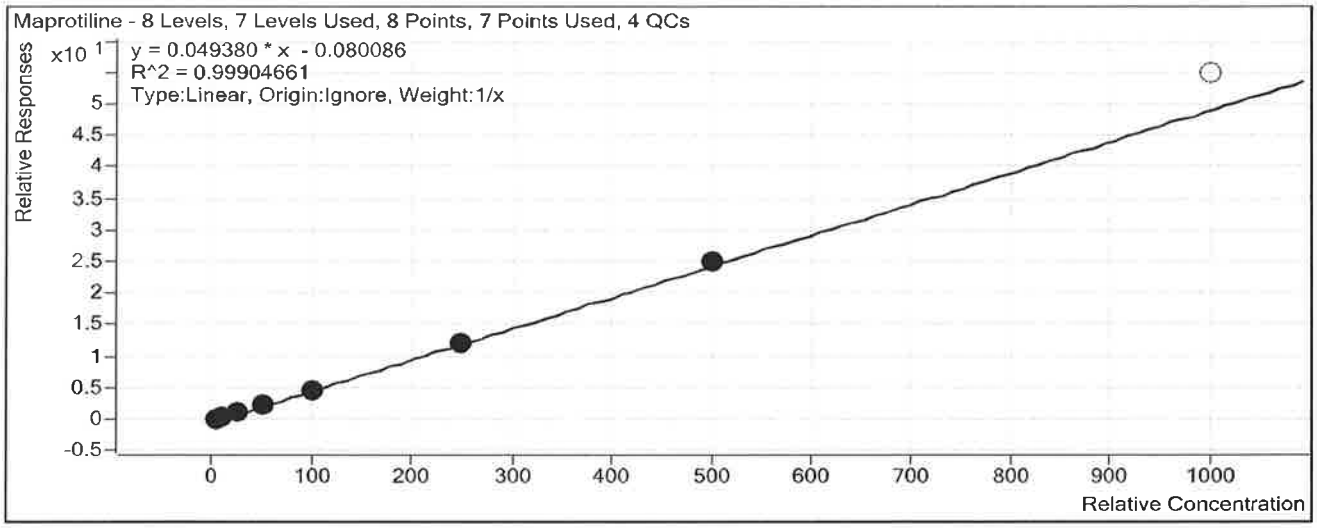


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.1	101.8
P2 a cal 2-10ng.d	2	☑	10	9.6	96.4
P2 a QC 10 (QC1).d	2	☑	10	9.8	97.6
P2 a cal 3-25ng.d	3	☑	25	24.2	96.7
P2 a cal 4-50ng.d	4	☑	50	52.0	103.9
P2 a cal 5-100ng.d	5	☑	100	105.7	105.7
P2 a QC 100 (QC2).d	5	☑	100	100.2	100.2
P2 a cal 6-250ng.d	6	☑	250	245.9	98.4
P2 a QC 250 (QC 3).d	6	☑	250	248.3	99.3
P2 a cal 7-500ng.d	7	☑	500	515.2	103.0
P2 a cal 8-1000ng.d	8	☑	1000	940.7	94.1
P2 a QC 1000 (QC 4).d	8	☑	1000	928.3	92.8

ISP Forensics
Calibration Curve Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Last Calib Update	6/6/2018 10:25 AM	**Analyst Name**	ISP TOX

Target Compound *Maprotiline*
Internal Standard *Nortriptyline-d3*

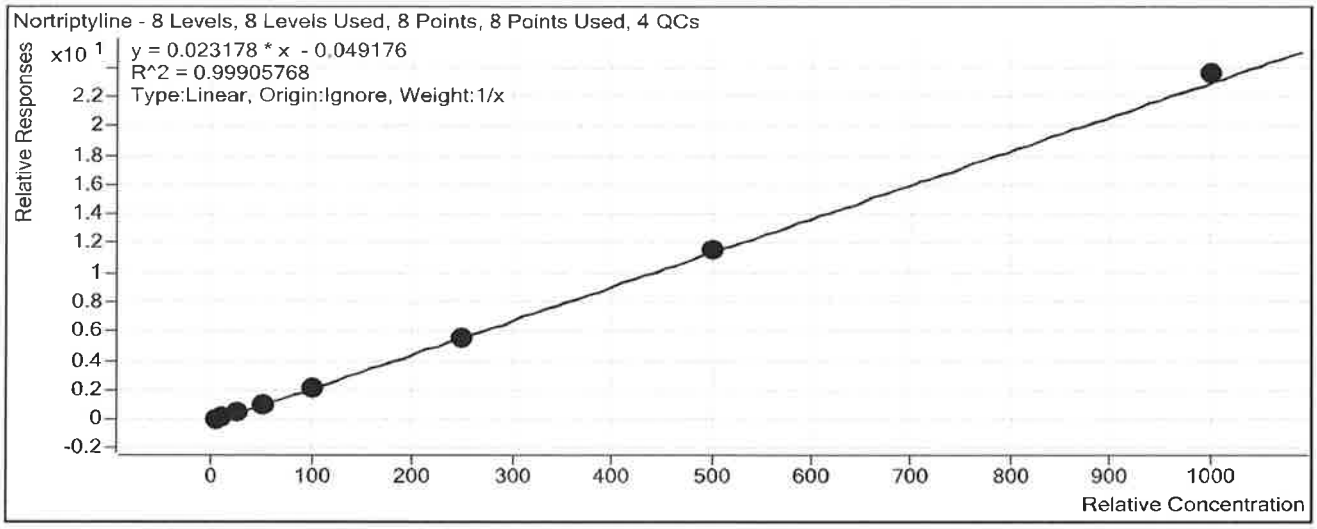


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.7	114.7
P2 a cal 2-10ng.d	2	☑	10	10.0	99.9
P2 a QC 10 (QC1).d	2	☑	10	10.1	100.5
P2 a cal 3-25ng.d	3	☑	25	23.1	92.3
P2 a cal 4-50ng.d	4	☑	50	48.0	96.1
P2 a cal 5-100ng.d	5	☑	100	96.5	96.5
P2 a QC 100 (QC2).d	5	☑	100	87.6	87.6
P2 a cal 6-250ng.d	6	☑	250	245.6	98.2
P2 a QC 250 (QC 3).d	6	☑	250	232.0	92.8
P2 a cal 7-500ng.d	7	☑	500	511.0	102.2
P2 a cal 8-1000ng.d	8	☐	1000	1110.6	111.1
P2 a QC 1000 (QC 4).d	8	☐	1000	997.2	99.7

ISP Forensics
Calibration Curve Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Last Calib Update	6/6/2018 10:25 AM	**Analyst Name**	ISP TOX

Target Compound *Nortriptyline*
Internal Standard *Nortriptyline-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	6.2	124.0
P2 a cal 2-10ng.d	2	☑	10	9.8	97.7
P2 a QC 10 (QC1).d	2	☑	10	10.1	100.7
P2 a cal 3-25ng.d	3	☑	25	22.7	90.9
P2 a cal 4-50ng.d	4	☑	50	47.6	95.2
P2 a cal 5-100ng.d	5	☑	100	94.0	94.0
P2 a QC 100 (QC2).d	5	☑	100	91.6	91.6
P2 a cal 6-250ng.d	6	☑	250	241.0	96.4
P2 a QC 250 (QC 3).d	6	☑	250	227.6	91.0
P2 a cal 7-500ng.d	7	☑	500	499.3	99.9
P2 a cal 8-1000ng.d	8	☑	1000	1019.3	101.9
P2 a QC 1000 (QC 4).d	8	☑	1000	952.0	95.2

ISP Forensics
Calibration Curve Report

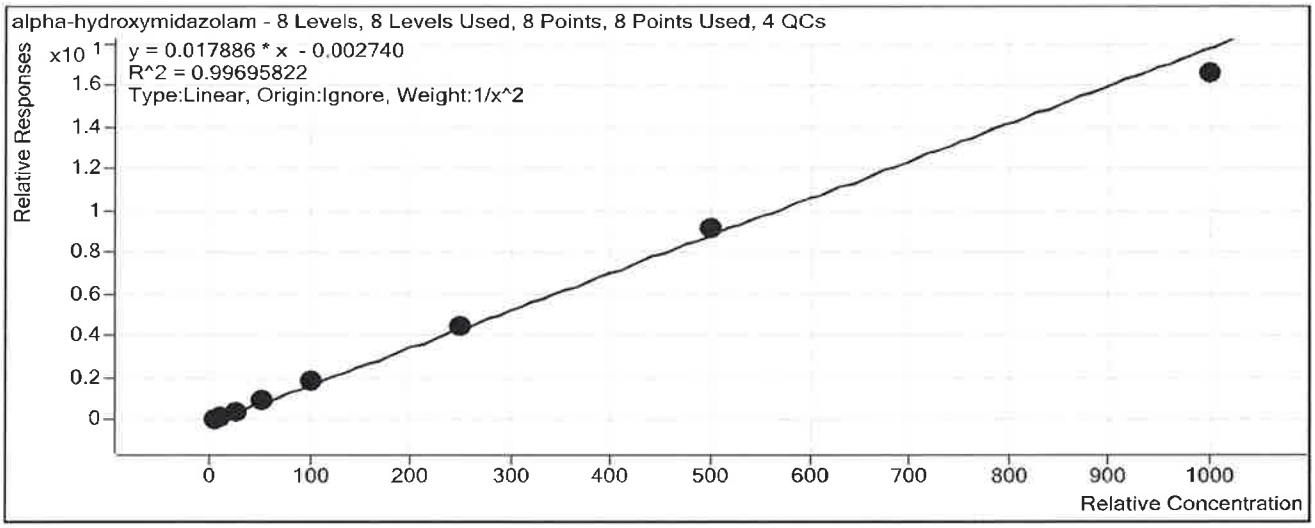
D

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *alpha-hydroxymidazolam*

Internal Standard *alpha-hydroxymidazolam-D4*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.1	102.2
P2 a cal 2-10ng.d	2	☑	10	9.6	95.8
P2 a QC 10 (QC1).d	2	☑	10	10.1	100.9
P2 a cal 3-25ng.d	3	☑	25	24.0	96.0
P2 a cal 4-50ng.d	4	☑	50	51.8	103.5
P2 a cal 5-100ng.d	5	☑	100	107.0	107.0
P2 a QC 100 (QC2).d	5	☑	100	111.4	111.4
P2 a cal 6-250ng.d	6	☑	250	251.0	100.4
P2 a QC 250 (QC 3).d	6	☑	250	270.0	108.0
P2 a cal 7-500ng.d	7	☑	500	512.3	102.5
P2 a cal 8-1000ng.d	8	☑	1000	925.7	92.6
P2 a QC 1000 (QC 4).d	8	☑	1000	1018.4	101.8

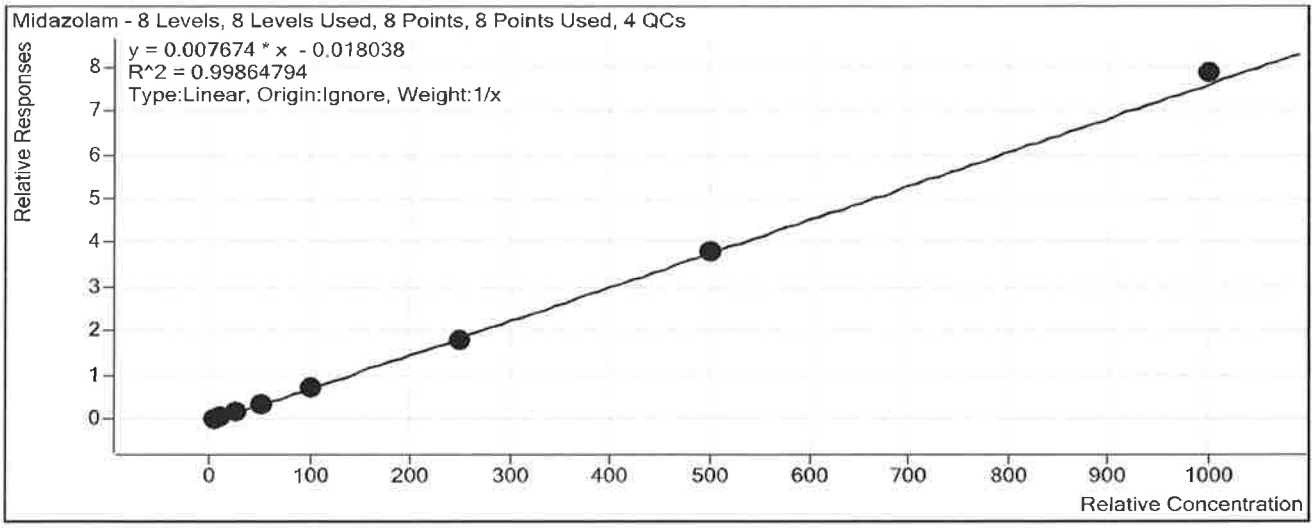
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Midazolam*

Internal Standard *Midazolam-D4*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	6.2	123.6
P2 a cal 2-10ng.d	2	☑	10	9.7	97.1
P2 a QC 10 (QC1).d	2	☑	10	9.8	97.8
P2 a cal 3-25ng.d	3	☑	25	22.8	91.4
P2 a cal 4-50ng.d	4	☑	50	48.5	97.0
P2 a cal 5-100ng.d	5	☑	100	95.0	95.0
P2 a QC 100 (QC2).d	5	☑	100	95.6	95.6
P2 a cal 6-250ng.d	6	☑	250	234.9	94.0
P2 a QC 250 (QC 3).d	6	☑	250	231.4	92.6
P2 a cal 7-500ng.d	7	☑	500	496.6	99.3
P2 a cal 8-1000ng.d	8	☑	1000	1026.3	102.6
P2 a QC 1000 (QC 4).d	8	☑	1000	982.1	98.2

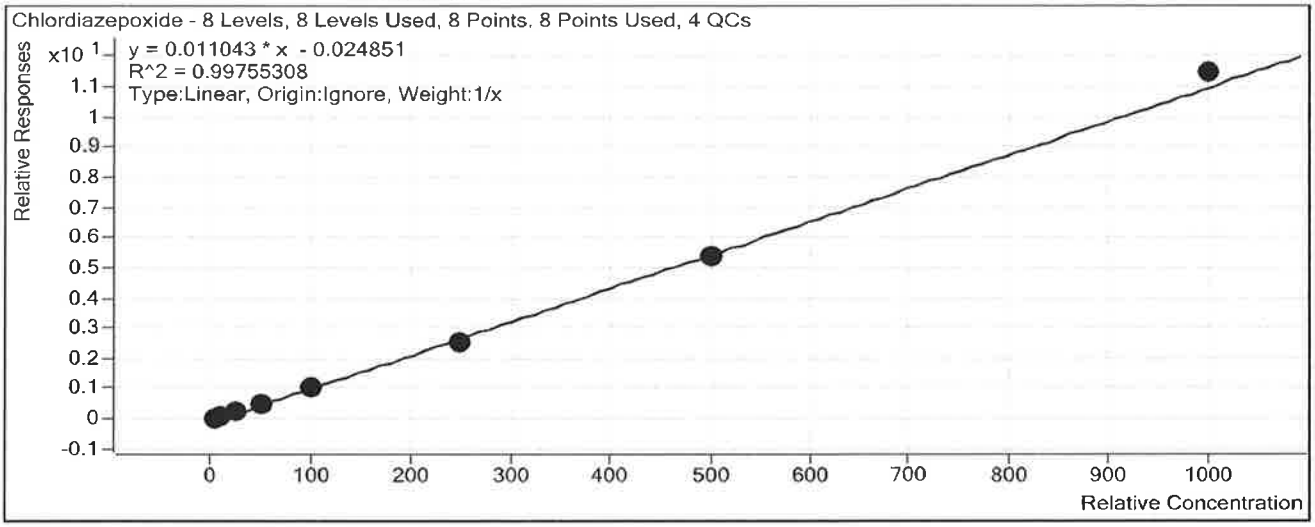
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Chlordiazepoxide*

Internal Standard *Chlordiazepoxide-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	6.3	126.0
P2 a cal 2-10ng.d	2	☑	10	9.9	99.1
P2 a QC 10 (QC1).d	2	☑	10	9.7	97.2
P2 a cal 3-25ng.d	3	☑	25	22.5	89.9
P2 a cal 4-50ng.d	4	☑	50	46.1	92.2
P2 a cal 5-100ng.d	5	☑	100	99.7	99.7
P2 a QC 100 (QC2).d	5	☑	100	88.2	88.2
P2 a cal 6-250ng.d	6	☑	250	228.7	91.5
P2 a QC 250 (QC 3).d	6	☑	250	217.5	87.0
P2 a cal 7-500ng.d	7	☑	500	489.5	97.9
P2 a cal 8-1000ng.d	8	☑	1000	1037.4	103.7
P2 a QC 1000 (QC 4).d	8	☑	1000	952.7	95.3

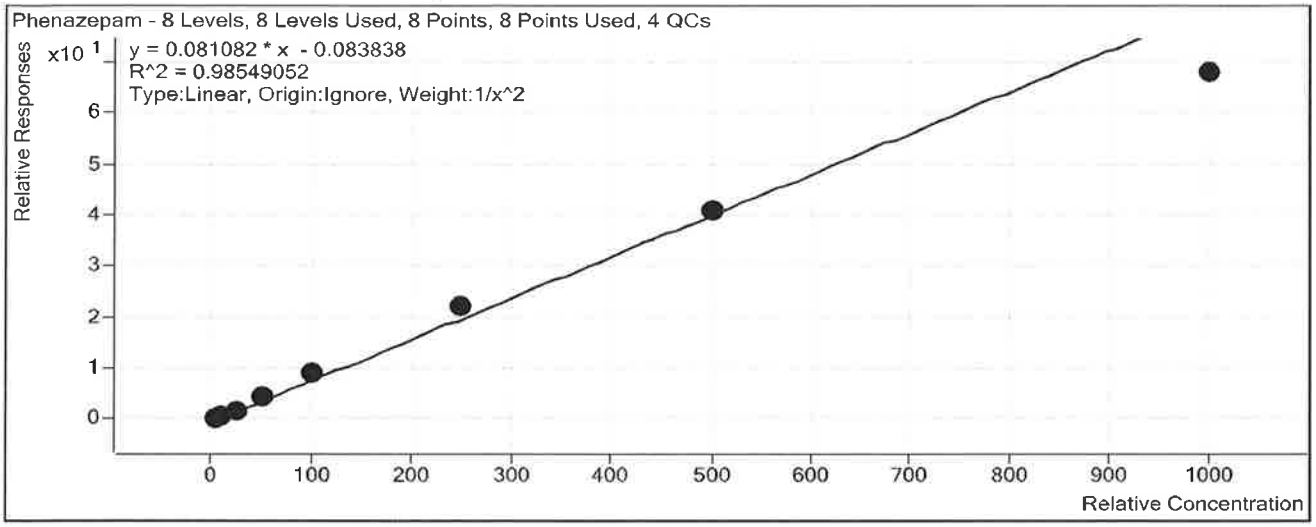
ISP Forensics
Calibration Curve Report

Batch Data Path C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin

Last Calib Update 6/6/2018 10:25 AM **Analyst Name** ISP TOX

Target Compound *Phenazepam*

Internal Standard *Phenazepam-D4*

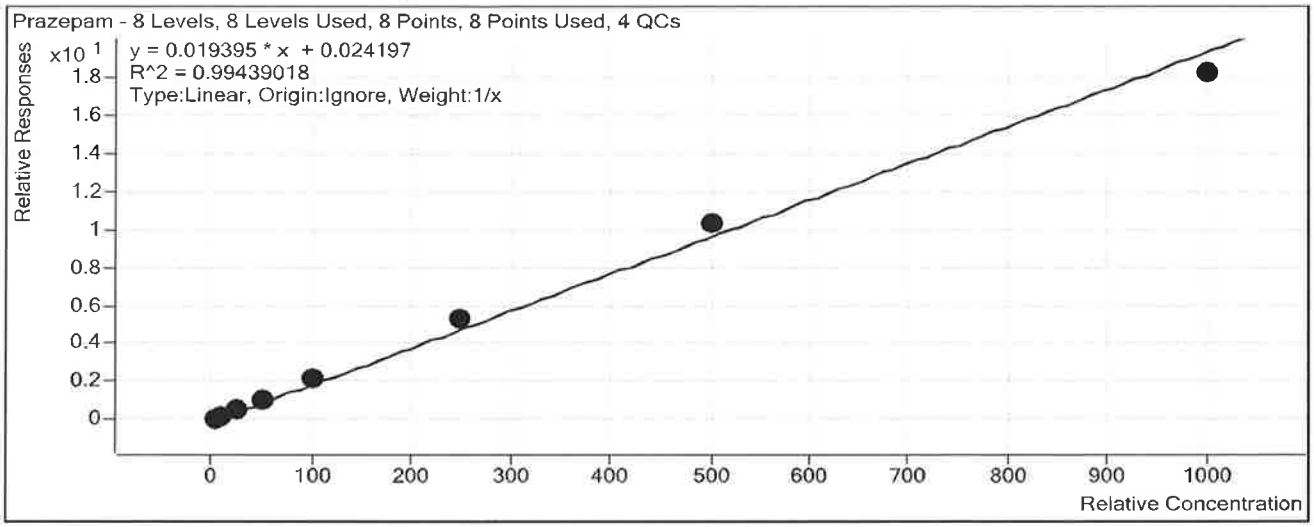


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	5.3	105.7
P2 a cal 2-10ng.d	2	☑	10	8.9	89.3
P2 a QC 10 (QC1).d	2	☑	10	9.4	94.3
P2 a cal 3-25ng.d	3	☑	25	22.8	91.1
P2 a cal 4-50ng.d	4	☑	50	53.3	106.5
P2 a cal 5-100ng.d	5	☑	100	112.4	112.4
P2 a QC 100 (QC2).d	5	☑	100	108.7	108.7
P2 a cal 6-250ng.d	6	☑	250	274.1	109.6
P2 a QC 250 (QC 3).d	6	☑	250	296.6	118.6
P2 a cal 7-500ng.d	7	☑	500	506.8	101.4
P2 a cal 8-1000ng.d	8	☑	1000	839.0	83.9
P2 a QC 1000 (QC 4).d	8	☑	1000	949.6	95.0

ISP Forensics
Calibration Curve Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Last Calib Update	6/6/2018 10:25 AM	**Analyst Name**	ISP TOX

Target Compound *Prazepam*
Internal Standard *Prazepam-D5*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
P2 a cal 1-5ng correct.d	1	☑	5	4.1	82.3
P2 a cal 2-10ng.d	2	☑	10	8.8	88.5
P2 a QC 10 (QC1).d	2	☑	10	9.0	89.8
P2 a cal 3-25ng.d	3	☑	25	24.5	98.1
P2 a cal 4-50ng.d	4	☑	50	55.5	111.0
P2 a cal 5-100ng.d	5	☑	100	112.9	112.9
P2 a QC 100 (QC2).d	5	☑	100	117.2	117.2
P2 a cal 6-250ng.d	6	☑	250	269.9	108.0
P2 a QC 250 (QC 3).d	6	☑	250	289.7	115.9
P2 a cal 7-500ng.d	7	☑	500	528.8	105.8
P2 a cal 8-1000ng.d	8	☑	1000	935.4	93.5
P2 a QC 1000 (QC 4).d	8	☑	1000	890.4	89.0

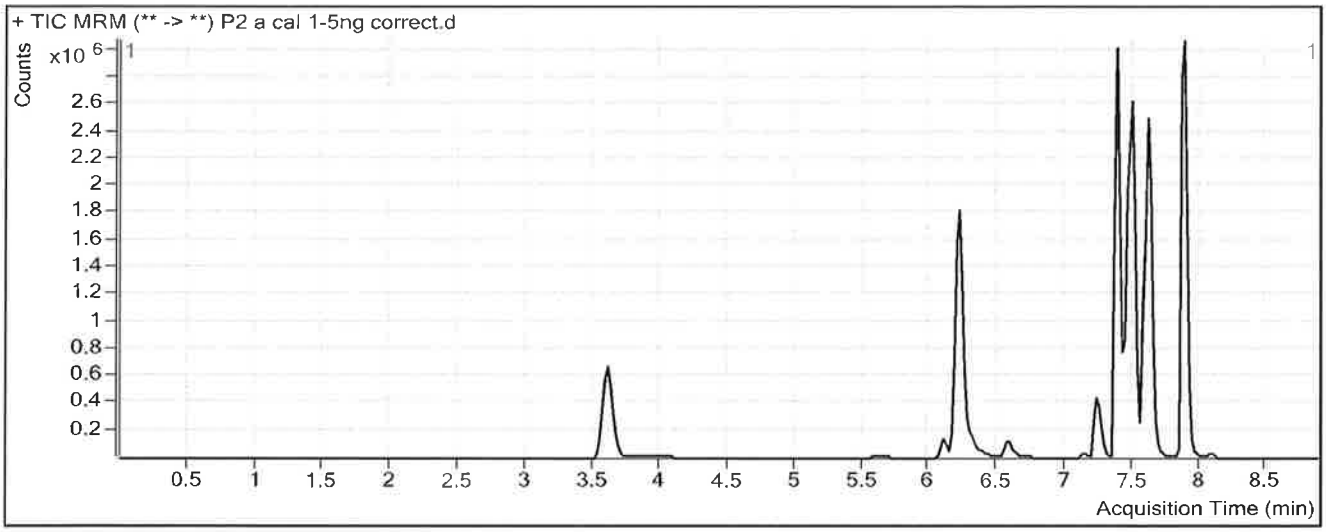
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:42 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-05 19:01	**Data File**	P2 a cal 1-5ng correct.d
Sample Type	Calibration	**Sample Name**	P2 a cal 1-5ng correct.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-A5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.636	343181	3221122	0.1065	6.0397
Levamisole	Benzoylecgonine-d8	3.985	81604	49218	1.6580	5.4335
Benzoylecgonine	Benzoylecgonine-d8	5.677	18574	49218	0.3774	11.6971
Zopiclone	Zopiclone-D4	6.089	47894	438735	0.1092	6.2608
Cocaine	Cocaine-D3	6.192	295308	2665428	0.1108	5.7926
Methylphenidate	Methylphenidate-D4	6.228	644870	4360512	0.1479	4.6079
Metoprolol	Methylphenidate-D4	6.264	75382	4360512	0.0173	5.0715
Ondansetron	Carbamazepine-13C6	6.314	188006	7910552	0.0238	6.4807
Mirtazapine	Carbamazepine-13C6	6.567	311566	7910552	0.0394	7.3837
Mitragynine	Doxepin-D3	7.113	98257	1634993	0.0601	7.5828
Doxepin	Doxepin-D3	7.225	142529	1634993	0.0872	5.9083
Carbamazepine	Carbamazepine-13C6	7.394	635959	7910552	0.0804	5.2422
Protriptyline	Protriptyline-d3	7.452	171924	1834561	0.0937	5.2210
Estazolam	Estazolam-D5	7.484	350106	3765041	0.0930	6.4213
Amitriptyline	Amitriptyline-D3	7.487	291955	1356578	0.2152	5.0904
Maprotiline	Nortriptyline-d3	7.487	284234	1398657	0.2032	5.7372
Nortriptyline	Nortriptyline-d3	7.492	132186	1398657	0.0945	6.1992
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	272068	3069195	0.0886	5.1092
Midazolam	Midazolam-D4	7.620	81207	2761893	0.0294	6.1822

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a cal 1

P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	144669	3234702	0.0447	6.3005
Phenazepam	Phenazepam-D4	7.657	44729	129749	0.3447	5.2857
Prazepam	Prazepam-D5	7.883	928222	8928052	0.1040	4.1129

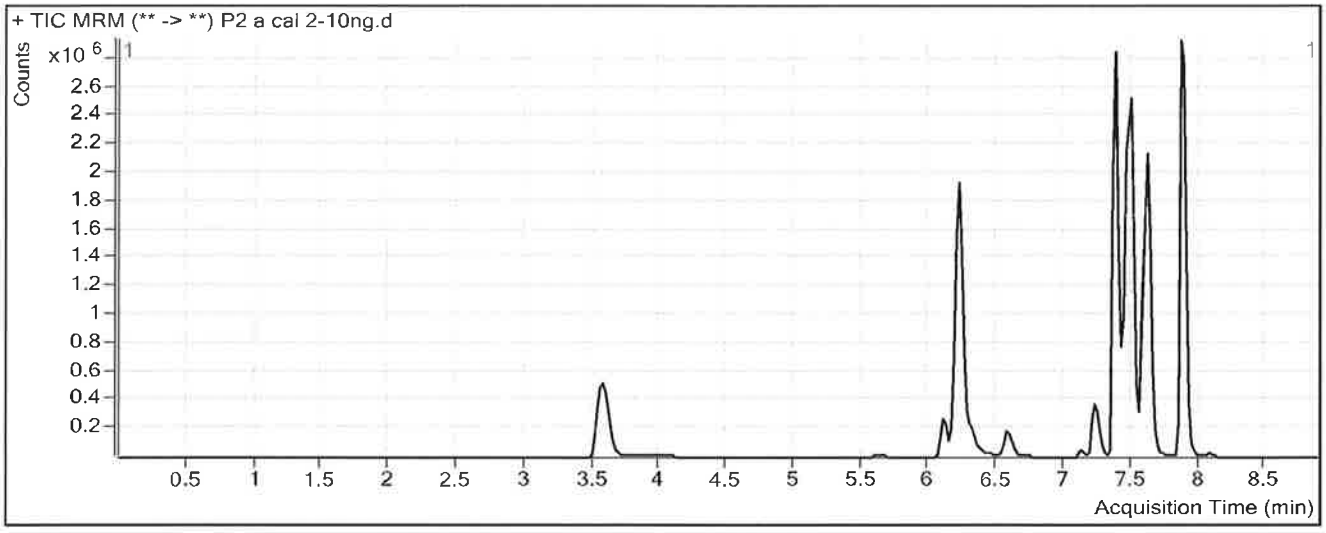
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 15:29	**Data File**	P2 a cal 2-10ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 2-10ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-B5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.596	557312	2685772	0.2075	9.8856
Levamisole	Benzoylecgonine-d8	4.005	158835	49071	3.2369	8.9241
Benzoylecgonine	Benzoylecgonine-d8	5.677	10799	49071	0.2201	6.6143
Zopiclone	Zopiclone-D4	6.109	173432	791008	0.2193	10.0452
Cocaine	Cocaine-D3	6.192	528457	2385641	0.2215	9.7382
Methylphenidate	Methylphenidate-D4	6.228	1133815	4013592	0.2825	9.1918
Metoprolol	Methylphenidate-D4	6.264	126287	4013592	0.0315	9.3882
Ondansetron	Carbamazepine-13C6	6.314	299034	7053531	0.0424	9.5170
Mirtazapine	Carbamazepine-13C6	6.587	441169	7053531	0.0625	9.8651
Mitragynine	Doxepin-D3	7.113	142428	1254992	0.1135	10.7346
Doxepin	Doxepin-D3	7.225	221145	1254992	0.1762	10.0324
Carbamazepine	Carbamazepine-13C6	7.394	1039710	7053531	0.1474	9.2418
Protriptyline	Protriptyline-d3	7.452	303465	1605237	0.1890	9.4683
Estazolam	Estazolam-D5	7.484	528652	2834312	0.1865	10.3823
Amitriptyline	Amitriptyline-D3	7.467	545893	1268219	0.4304	9.6417
Maprotiline	Nortriptyline-d3	7.487	553072	1338771	0.4131	9.9879
Nortriptyline	Nortriptyline-d3	7.492	237273	1338771	0.1772	9.7682
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	417862	2477900	0.1686	9.5814
Midazolam	Midazolam-D4	7.601	125679	2226348	0.0565	9.7069

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a cal 2

P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	229350	2710155	0.0846	9.9139
Phenazepam	Phenazepam-D4	7.657	70211	109630	0.6404	8.9326
Prazepam	Prazepam-D5	7.883	1464921	7480260	0.1958	8.8498

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

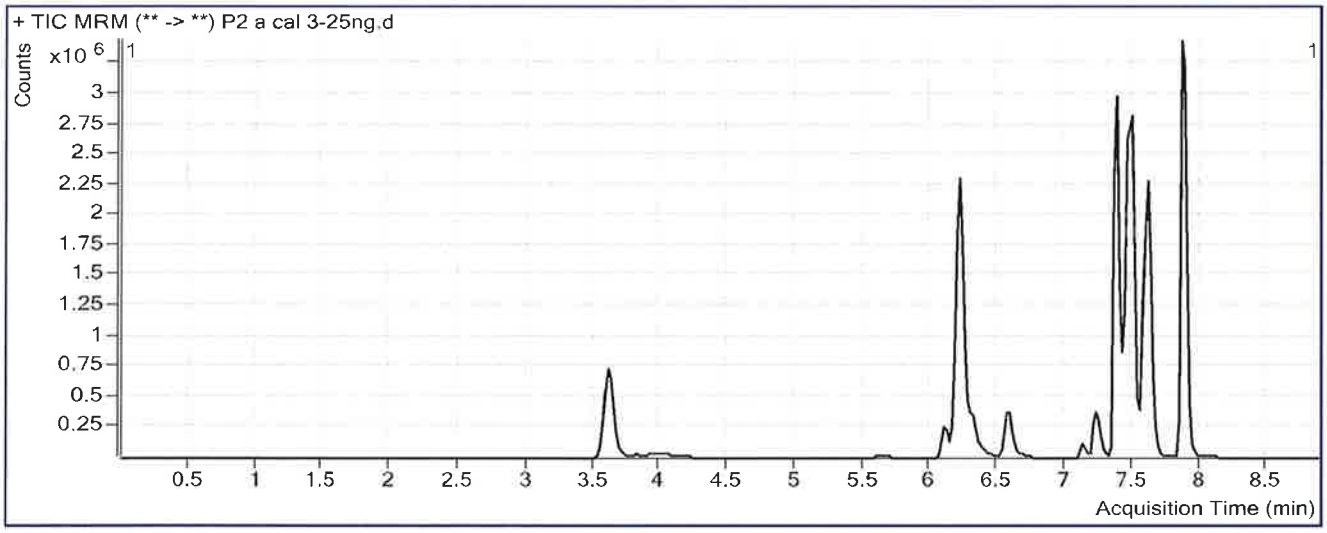
D

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 15:44	**Data File**	P2 a cal 3-25ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 3-25ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-C5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.636	1285662	2376216	0.5411	22.5908
Levamisole	Benzoylecgonine-d8	3.985	383802	41916	9.1563	22.0110
Benzoylecgonine	Benzoylecgonine-d8	5.677	29526	41916	0.7044	22.2633
Zopiclone	Zopiclone-D4	6.109	334663	570144	0.5870	22.6856
Cocaine	Cocaine-D3	6.192	1211326	2050350	0.5908	22.8974
Methylphenidate	Methylphenidate-D4	6.228	2410426	3343014	0.7210	24.1261
Metoprolol	Methylphenidate-D4	6.244	274464	3343014	0.0821	24.8059
Ondansetron	Carbamazepine-13C6	6.314	698095	6181626	0.1129	21.0138
Mirtazapine	Carbamazepine-13C6	6.587	939204	6181626	0.1519	19.4425
Mitragynine	Doxepin-D3	7.113	282980	940726	0.3008	21.7923
Doxepin	Doxepin-D3	7.225	417785	940726	0.4441	22.4411
Carbamazepine	Carbamazepine-13C6	7.394	2342270	6181626	0.3789	23.0597
Protriptyline	Protriptyline-d3	7.452	576831	1176714	0.4902	22.8858
Estazolam	Estazolam-D5	7.484	1226304	2560181	0.4790	22.7684
Amitriptyline	Amitriptyline-D3	7.467	992422	887929	1.1177	24.1744
Maprotiline	Nortriptyline-d3	7.487	995910	939955	1.0595	23.0784
Nortriptyline	Nortriptyline-d3	7.492	448696	939955	0.4774	22.7171
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	970203	2273566	0.4267	24.0112
Midazolam	Midazolam-D4	7.601	313301	1992013	0.1573	22.8460

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a cal 3

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	542298	2427783	0.2234	22.4783
Phenazepam	Phenazepam-D4	7.657	161862	91807	1.7631	22.7783
Prazepam	Prazepam-D5	7.883	3304024	6612139	0.4997	24.5164

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

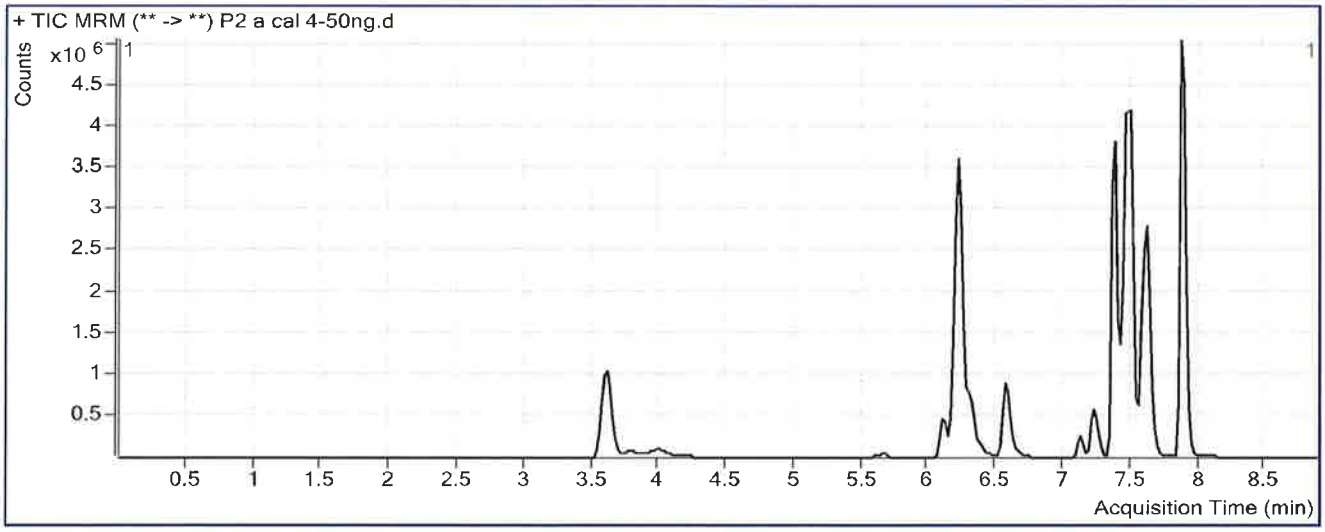
P

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 16:00	**Data File**	P2 a cal 4-50ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 4-50ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-D5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.616	2917496	2428933	1.2011	47.7343
Levamisole	Benzoylecgonine-d8	3.965	902572	46145	19.5596	45.0109
Benzoylecgonine	Benzoylecgonine-d8	5.677	68511	46145	1.4847	47.4749
Zopiclone	Zopiclone-D4	6.089	857944	677575	1.2662	46.0338
Cocaine	Cocaine-D3	6.192	2743507	2124591	1.2913	47.8605
Methylphenidate	Methylphenidate-D4	6.228	5315033	3462828	1.5349	51.8413
Metoprolol	Methylphenidate-D4	6.264	637521	3462828	0.1841	55.8638
Ondansetron	Carbamazepine-13C6	6.314	1560712	5857019	0.2665	46.0393
Mirtazapine	Carbamazepine-13C6	6.567	2184166	5857019	0.3729	43.1188
Mitragynine	Doxepin-D3	7.113	687007	971397	0.7072	45.7838
Doxepin	Doxepin-D3	7.225	947993	971397	0.9759	47.0735
Carbamazepine	Carbamazepine-13C6	7.394	4972084	5857019	0.8489	51.1129
Protriptyline	Protriptyline-d3	7.452	1285323	1180044	1.0892	49.5736
Estazolam	Estazolam-D5	7.484	2380793	2317035	1.0275	45.9985
Amitriptyline	Amitriptyline-D3	7.467	2235239	919295	2.4315	51.9565
Maprotiline	Nortriptyline-d3	7.467	2216402	966925	2.2922	48.0417
Nortriptyline	Nortriptyline-d3	7.492	1019512	966925	1.0544	47.6126
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.559	1982667	2147314	0.9233	51.7750
Midazolam	Midazolam-D4	7.601	706983	1996344	0.3541	48.4994

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

q cal 4

P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.604	1080231	2231410	0.4841	46.0893
Phenazepam	Phenazepam-D4	7.657	323448	76365	4.2355	53.2716
Prazepam	Prazepam-D5	7.863	6979412	6342510	1.1004	55.4898

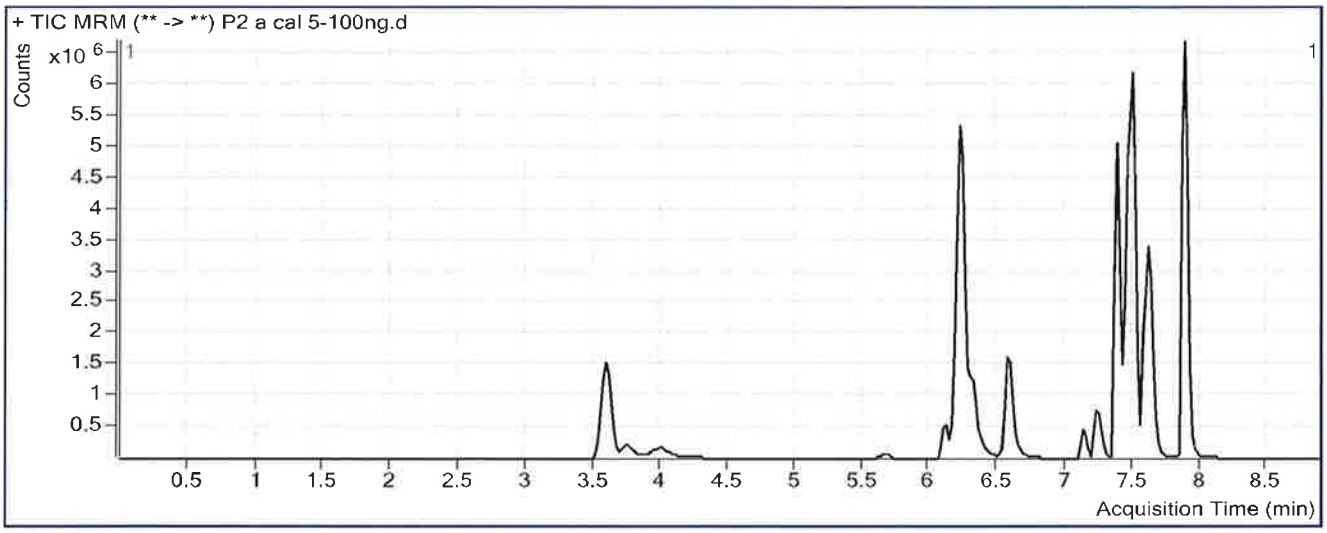
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 16:16	**Data File**	P2 a cal 5-100ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 5-100ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-E5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.596	5337422	2149872	2.4827	96.5489
Levamisole	Benzoylecgonine-d8	3.744	1762675	41287	42.6934	96.1558
Benzoylecgonine	Benzoylecgonine-d8	5.677	130908	41287	3.1707	101.9505
Zopiclone	Zopiclone-D4	6.109	1187513	445609	2.6649	94.1148
Cocaine	Cocaine-D3	6.192	4978515	1817856	2.7387	99.4376
Methylphenidate	Methylphenidate-D4	6.248	9543198	3008345	3.1722	107.6009
Metoprolol	Methylphenidate-D4	6.264	1137347	3008345	0.3781	114.9206
Ondansetron	Carbamazepine-13C6	6.314	2803956	5009624	0.5597	93.8361
Mirtazapine	Carbamazepine-13C6	6.567	3829304	5009624	0.7644	85.0624
Mitragynine	Doxepin-D3	7.113	1230486	828430	1.4853	91.7149
Doxepin	Doxepin-D3	7.225	1734068	828430	2.0932	98.8252
Carbamazepine	Carbamazepine-13C6	7.394	8714308	5009624	1.7395	104.2706
Protriptyline	Protriptyline-d3	7.472	2149720	975993	2.2026	99.1782
Estazolam	Estazolam-D5	7.484	3839598	1834182	2.0934	91.1367
Amitriptyline	Amitriptyline-D3	7.487	3749882	754079	4.9728	105.6966
Maprotiline	Nortriptyline-d3	7.487	3703168	790158	4.6866	96.5308
Nortriptyline	Nortriptyline-d3	7.492	1683462	790158	2.1305	94.0426
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	3430568	1795211	1.9110	106.9921
Midazolam	Midazolam-D4	7.601	1197061	1683589	0.7110	95.0052

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a cal 5

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	1867623	1736330	1.0756	99.6550
Phenazepam	Phenazepam-D4	7.657	506677	56109	9.0303	112.4058
Prazepam	Prazepam-D5	7.883	12450213	5621681	2.2147	112.9409

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

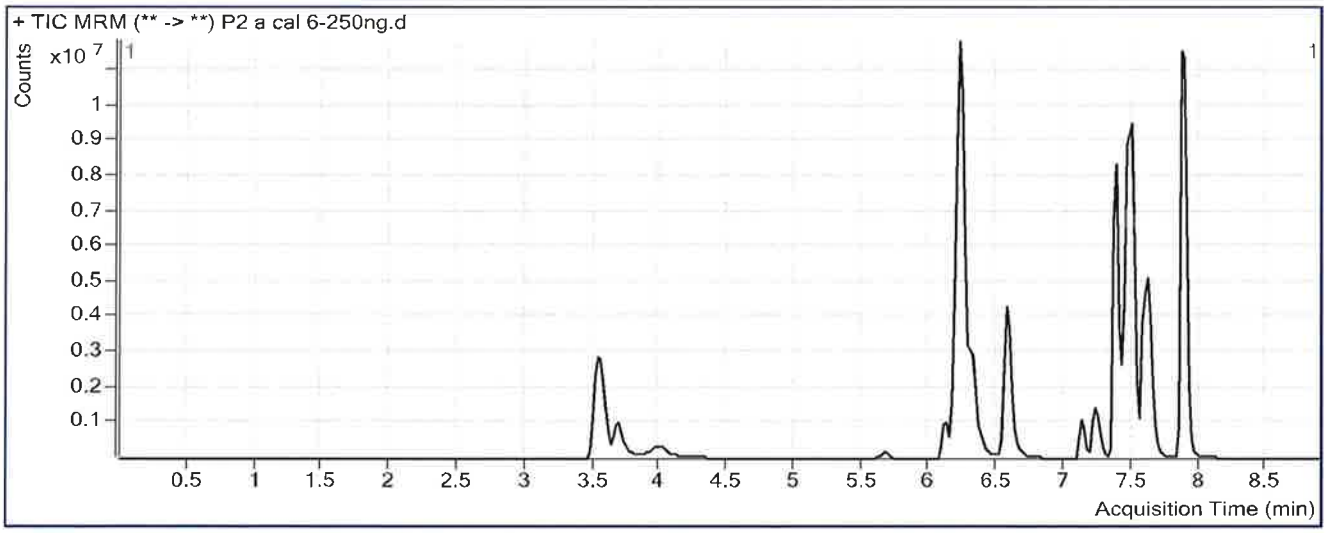
B

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 16:31	**Data File**	P2 a cal 6-250ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 6-250ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-F5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.556	13252545	2142119	6.1867	237.6374
Levamisole	Benzoylecgonine-d8	3.684	4985689	40275	123.7899	275.4464
Benzoylecgonine	Benzoylecgonine-d8	5.677	347490	40275	8.6278	278.2736
Zopiclone	Zopiclone-D4	6.109	2594787	377144	6.8801	239.0112
Cocaine	Cocaine-D3	6.192	12709034	1873817	6.7824	243.5376
Methylphenidate	Methylphenidate-D4	6.228	23914932	3060079	7.8151	265.7128
Metoprolol	Methylphenidate-D4	6.264	2486553	3060079	0.8126	247.2214
Ondansetron	Carbamazepine-13C6	6.314	6781447	4242989	1.5983	263.1130
Mirtazapine	Carbamazepine-13C6	6.567	9691679	4242989	2.2842	247.8948
Mitragynine	Doxepin-D3	7.113	2838081	698489	4.0632	243.8872
Doxepin	Doxepin-D3	7.225	3614548	698489	5.1748	241.5623
Carbamazepine	Carbamazepine-13C6	7.394	18015578	4242989	4.2460	253.8738
Protriptyline	Protriptyline-d3	7.452	3714700	683745	5.4329	243.0968
Estazolam	Estazolam-D5	7.484	7279192	1371098	5.3090	227.3197
Amitriptyline	Amitriptyline-D3	7.467	6680768	575842	11.6017	245.8755
Maprotiline	Nortriptyline-d3	7.487	6738446	559278	12.0485	245.6162
Nortriptyline	Nortriptyline-d3	7.492	3096521	559278	5.5366	240.9970
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.559	6721729	1498313	4.4862	250.9702
Midazolam	Midazolam-D4	7.601	2821655	1581180	1.7845	234.8968

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a cal 6 P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	3381415	1352440	2.5002	228.6643
Phenazepam	Phenazepam-D4	7.657	849828	38384	22.1401	274.0918
Prazepam	Prazepam-D5	7.883	26271319	4995545	5.2589	269.9031

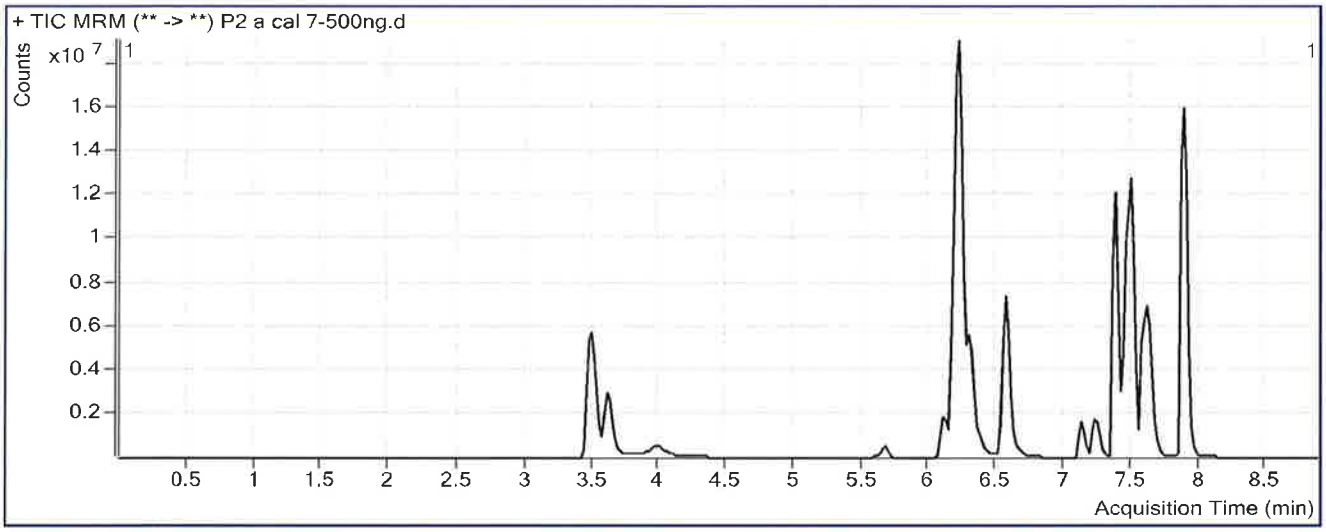
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 16:47	**Data File**	P2 a cal 7-500ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 7-500ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-G5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.496	24974837	1874178	13.3258	509.5732
Levamisole	Benzoylecgonine-d8	3.604	9203103	40913	224.9457	499.0847
Benzoylecgonine	Benzoylecgonine-d8	5.677	895548	40913	21.8893	706.7579
Zopiclone	Zopiclone-D4	6.089	5212065	362923	14.3614	496.1783
Cocaine	Cocaine-D3	6.172	24862834	1725560	14.4086	515.2960
Methylphenidate	Methylphenidate-D4	6.228	40044725	2515932	15.9165	541.5998
Metoprolol	Methylphenidate-D4	6.244	4028153	2515932	1.6011	487.2974
Ondansetron	Carbamazepine-13C6	6.294	12865917	3409536	3.7735	617.6605
Mirtazapine	Carbamazepine-13C6	6.567	16677144	3409536	4.8913	527.2327
Mitragynine	Doxepin-D3	7.113	4400681	453739	9.6987	576.5565
Doxepin	Doxepin-D3	7.225	4951460	453739	10.9126	507.3294
Carbamazepine	Carbamazepine-13C6	7.394	29673590	3409536	8.7031	519.9092
Protriptyline	Protriptyline-d3	7.472	4611896	378857	12.1732	543.3989
Estazolam	Estazolam-D5	7.484	12230671	1062041	11.5162	490.1926
Amitriptyline	Amitriptyline-D3	7.487	8313894	341590	24.3388	515.2202
Maprotiline	Nortriptyline-d3	7.487	8192091	325683	25.1535	511.0077
Nortriptyline	Nortriptyline-d3	7.492	3753180	325683	11.5240	499.3192
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.579	10589244	1155975	9.1604	512.3006
Midazolam	Midazolam-D4	7.601	4935307	1301358	3.7924	496.5522

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a cal 7 P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	5202988	967026	5.3804	489.4843
Phenazepam	Phenazepam-D4	7.657	1209173	29484	41.0108	506.8280
Prazepam	Prazepam-D5	7.883	40756134	3964757	10.2796	528.7674

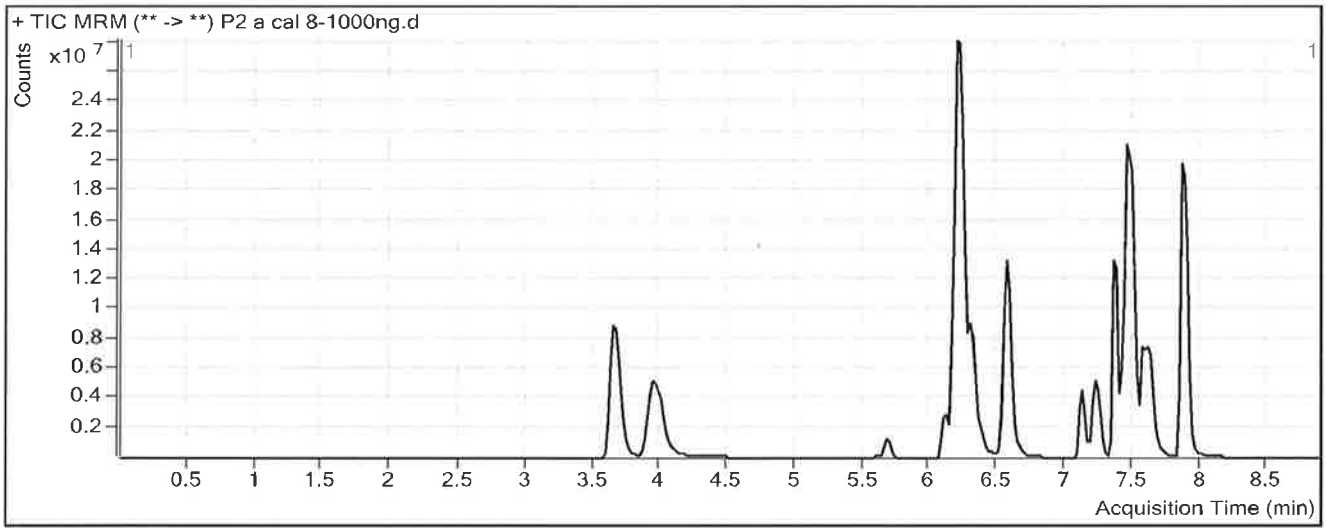
ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report

Batch Data Path	C:\MassHunter\Data\2018\MD Quant\060418 MDQ P1 P2 SP\QuantResults\060418 MDQP2a SP.batch.bin		
Analysis Time	6/6/2018 10:25 AM	**Analyst Name**	ISPUser
Report Time	6/6/2018 10:40 AM	**Reporter Name**	ISPUser
Last Calib Update	6/6/2018 10:25 AM	**Batch State**	Processed

Analysis Info

Acq Time	2018-06-04 17:03	**Data File**	P2 a cal 8-1000ng.d
Sample Type	Calibration	**Sample Name**	P2 a cal 8-1000ng.d
Dilution	1	**Acq Method**	MDQ Panel 2a 6-4-18.m
Position	P2-H5	**Sample Info**	
Inj Vol	-1	**Comment**	AM 28-Panel 2

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Pseudoephedrine	Pseudoephedrine-D3	3.676	44037904	1664122	26.4632	1009.9900
Levamisole	Benzoylecgonine-d8	3.945	20872997	39209	532.3583	1178.7220
Benzoylecgonine	Benzoylecgonine-d8	5.677	2037808	39209	51.9736	1678.7940
Zopiclone	Zopiclone-D4	6.109	8114959	272636	29.7648	1025.6703
Cocaine	Cocaine-D3	6.172	42190053	1513141	27.8824	995.4400
Methylphenidate	Methylphenidate-D4	6.228	59619348	2169721	27.4779	935.3194
Metoprolol	Methylphenidate-D4	6.264	5877982	2169721	2.7091	824.6724
Ondansetron	Carbamazepine-13C6	6.294	22188732	1953699	11.3573	1853.7589
Mirtazapine	Carbamazepine-13C6	6.567	31631513	1953699	16.1906	1737.8627
Mitragynine	Doxepin-D3	7.113	12419344	673002	18.4536	1093.3665
Doxepin	Doxepin-D3	7.225	14601772	673002	21.6965	1006.8278
Carbamazepine	Carbamazepine-13C6	7.374	32217426	1953699	16.4905	984.7153
Protriptyline	Protriptyline-d3	7.452	10127100	429683	23.5687	1051.1057
Estazolam	Estazolam-D5	7.484	9192682	373152	24.6352	1045.7806
Amitriptyline	Amitriptyline-D3	7.467	21932320	493293	44.4610	940.7349
Maprotiline	Nortriptyline-d3	7.487	22069829	403003	54.7634	1110.6389
Nortriptyline	Nortriptyline-d3	7.492	9501656	403003	23.5771	1019.3441
alpha-hydroxymidazolam	alpha-hydroxymidazolam-D4	7.559	12496148	754868	16.5541	925.6683
Midazolam	Midazolam-D4	7.601	7323815	932053	7.8577	1026.3115

ISP FORENSICS - Pocatello Instrument # 59740
Multi-Drug Confirmatory Analysis Report a cal 8 P

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
Chlordiazepoxide	Chlordiazepoxide-D5	7.623	6299827	551115	11.4311	1037.4143
Phenazepam	Phenazepam-D4	7.657	1548998	22799	67.9406	838.9579
Prazepam	Prazepam-D5	7.863	52956708	2915059	18.1666	935.4196