

*AM 7 central data available upon request - TS


















TS

9/18/2019

Worklist: 3690

REVIEWED

By Britany Wylie at 2:03 pm, Sep 24, 2019

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2019-3380	1	158186	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2019-3502	1	159108	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2019-3701	1	160476	AM 25 Blood Multi-Drug Screen by LC-QQQ	
M2019-3790	2	161018	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2490	1	160325	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2517	1	160432	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2518	1	160435	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2519	1	160440	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2520	1	160443	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2521	1	160446	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2532	1	160573	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2533	1	160576	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2534	1	160579	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2540	1	160599	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2552	1	160738	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2562	1	160916	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2569	1	160954	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2572	1	161001	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2594	1	161124	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2604	1	161317	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2605	1	161329	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2617	1	161350	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2019-2752	1	162492	AM 25 Blood Multi-Drug Screen by LC-QQQ	

TS

Worklist: 3690

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
P2019-2777	1	162628	AM 25 Blood Multi-Drug Screen by LC-QQQ
P2019-2795	1	162680	AM 25 Blood Multi-Drug Screen by LC-QQQ



TS

AM# 25: Multi-Drug Screen in Blood by LC-MS/MS

Extraction Date: 09/16/19
 Plate lot#: 0543908

Analyst: Tamara Salazar
 Plate Expiration: 11/28/19

Mobile phase A: 10mM Amm Form
 0.5M Ammonium Hydroxide
Blank Blood Lot: Hemostat 445283-2
LCMS-QQQ ID: 069901

Mobile phase B: 0.1% Formic Acid in MeOH
 Ethyl Acetate LC Methanol
Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

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 0.5M 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 100% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- 1. Open quantitation software and create a new quantitation batch.
 Batch Name: MDS_wklst 3690_TS
 Worklist path: D:\MassHunter\Data\2019\AM 25\091619 MDS SP TS
- 2. Make necessary changes to integration limits
- 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater, or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? Y / N _____
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:



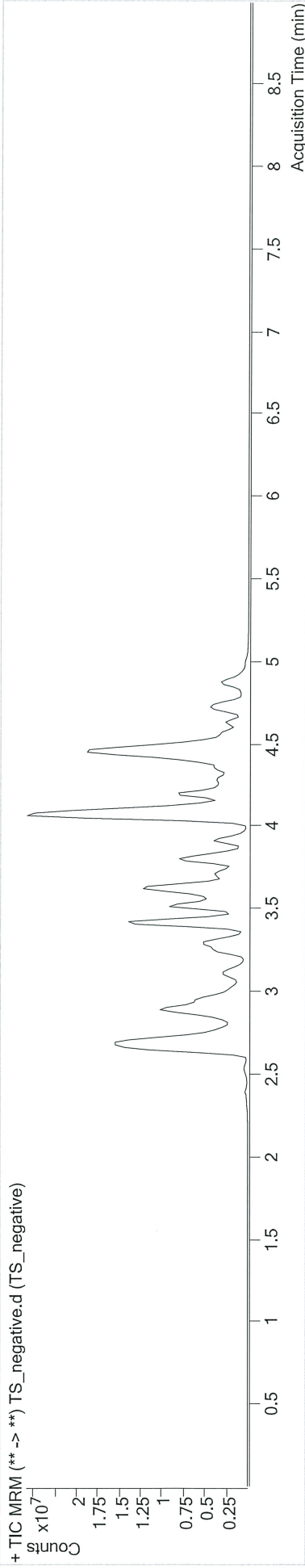
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2019\AM 25\091619 MDS SP TS\QuantResults\MDS_wk1st_TS_batch.bin
Calibration Last Update 9/18/2019 9:21:47 AM

Instrument Type Falco
Acq. Method am 25 all.m
Sample Position P2-C9
Injection Volume 5
Acq. Date-Time 9/16/2019 6:00:28 PM
Sample Info.

Data File TS_negative.d
Sample TS_negative
Operator
Comment

Sample Chromatogram



TS



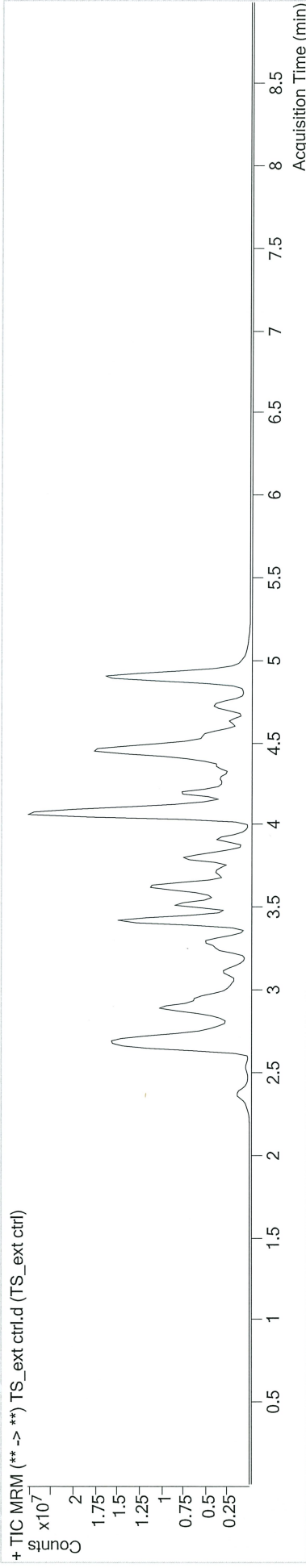
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2019\AM 25\091619 MDS SP TS\QuantResults\MDS_wk1st_3690_TS.batch.bin
Calibration Last Update 9/18/2019 9:21:47 AM

Instrument Falco
Type Sample
Acq. Method am 25 all.m
Sample Position P2-B9
Injection Volume 5
Acq. Date-Time 9/16/2019 6:09:57 PM
Sample Info.

Data File TS_ext ctrl.d
Sample TS_ext ctrl
Operator
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	ISTD Resp.	Calc. Conc.
Flunitrazepam	4.562	4187114	587.12	51346	126.4045
Metoprolol	3.446	4740868	1608.01	7218876	95.0969
Morphine	2.383	1991449	9704.41	76478	133.4372
Oxazepam	4.566	4030	1.46 Low	118149	1.6566
Trazodone	4.910	34288783	21951170.98	11380941	111.9732
			859215.94		

TS

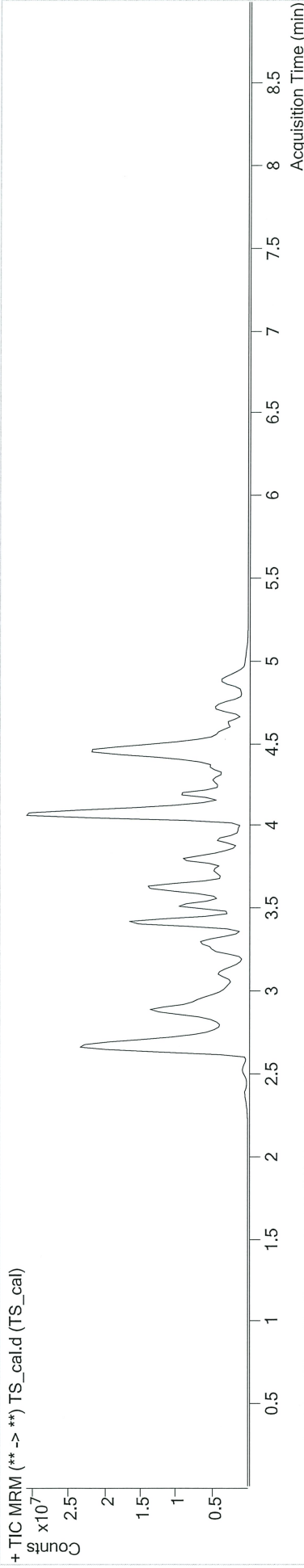


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2019\AM 25\091619 MDS SP TS\QuantResults\MDS_wklist 3690_TS.batch.bin
Calibration Last Update 9/18/2019 9:21:47 AM

Instrument	Falco	Data File	TS_cal.d
Type	Cal	Sample	TS_cal
Acq. Method	am 25 all.m	Operator	
Sample Position	P2-G12	Comment	
Injection Volume	5		
Acq. Date-Time	9/16/2019 5:50:42 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.012	29654	122.56	17260.15	611625	10.0000
7-aminoclonazepam	3.551	112811	89.37	106911.79	543313	10.0000
7-aminoflunitrazepam	3.765	1167424	5703.84	1540.46	6159677	10.0000
Acetyl Fentanyl	4.070	140783	342.06	37205.88	11227419	10.0000
Acetyl Norfentanyl	2.869	168844	336.79	46.01	7225277	10.0000
a-hydroxylprazolam	4.499	16143	17.14	131.76	72383	10.0000
alpha-hydroxymidazolam	4.574	443586	468.36	35322.11	3131654	10.0000
alpha-PVP	3.620	1901223	∞	297.78	7447114	10.0000
Alprazolam	4.593	570661	116.02	238.56	1741417	10.0000
Amitriptyline	4.537	2193133	39.50	341.74	4574115	10.0000
Amphetamine	2.873	1607977	1353.75	∞	3497918	10.0000
Benzoyllecgonine	3.336	512289	412.51	2514.83	2249351	10.0000
Buprenorphine	5.057	354990	∞	∞	1032560	10.0000
Bupropion	3.879	1981605	583.08	∞	6276613	10.0000
Carbamazepine	4.218	3354249	∞	∞	19304770	10.0000
Carisoprodol	4.201	258556	328.00	35.71	1531757	10.0000
Chlordiazepoxide	4.717	118060	31.29	11.99	2737246	10.0000
Chlorpheniramine	3.982	11291	5.62	∞	23123116	10.0000



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Citalopram	4.130	2025795	∞	69405.78	9147128	10.0000
Clonazepam	4.439	48590	6.68	6093.49	98736	10.0000
Cocaine	3.626	2339704	1163.02	192.97	10161547	10.0000
Codeine	2.910	235236	43.46	486.46	1049194	10.0000
Cyclobenzaprine	4.445	1439629	62805.34	6105.95	4430418	10.0000
Desipramine	4.446	2684877	∞	∞	16264585	10.0000
Dextromethorphan	4.138	1159005	5007.90	260091.39	5200365	10.0000
Dextroproprian	3.417	1668276	17503.73	347275.49	10182953	10.0000
Diazepam	4.841	302960	586.36	633.99	1437276	10.0000
Dihydrocodeine	2.787	769683	2834.35	108.94	3719978	10.0000
Diphenhydramine	4.078	3190485	∞	∞	23123116	10.0000
Doxepin	4.259	1274755	∞	138.58	8153386	10.0000
Doxylamine	3.645	5454882	242064.45	∞	21143195	10.0000
EDDP	4.090	2332468	109748.28	1267.01	13754416	10.0000
Estazolam	4.519	915988	255.19	∞	2281621	10.0000
Etizolam	4.604	92707	518.47	281.80	2281621	10.0000
Fentanyl	4.314	146444	33.50	31346.89	8513146	10.0000
Flunitrazepam	4.562	396798	422.78	255.00	61507	10.0000
Fluoxetine	4.364	2214375	3350.07	118.79	8838766	10.0000
Flurazepam	4.358	1243067	∞	113992.07	61507	10.0000
Hydrocodone	3.152	592826	182.06	∞	3269994	10.0000
Hydromorphone	2.547	592529	81.51	∞	2211473	10.0000
Imipramine	4.490	3039050	312.17	∞	10923606	10.0000
Ketamine	3.741	1925496	∞	61.31	8572667	10.0000
Lamotrigine	3.632	153805	123.87	93.43	5895294	10.0000
Levamisole	3.068	1880616	234174.83	1704.07	10161547	10.0000
Lorazepam	4.423	6263	24.92	6.82	98736	10.0000
Maprotiline	4.537	2193133	39.50	1013.95	4574115	10.0000
MDA	3.039	739757	2597.87	∞	3442441	10.0000
MDEA	3.267	2789159	3593.39	2184.20	12553241	10.0000
MDMA	3.115	2795075	9492.93	1396.99	1741224	10.0000
Meperidine	3.663	1227075	210.30	653.08	5895294	10.0000
Meprobamate	3.636	36992	95.28	43.27	181016	10.0000
Methadone	4.409	3114670	13311.23	10558.31	13118779	10.0000
Methamphetamine	2.994	2618880	∞	255.12	11647637	10.0000
Methocarbamol	3.541	74910	106.60	51.40	5895294	10.0000
Methylphenidate	3.542	4835106	1424.64	299.37	23685647	10.0000
Metoprolol	3.446	407125	351.67	367.00	5895294	10.0000
Midazolam	4.758	320172	582.60	∞	3444032	10.0000
Mirtazapine	4.293	1708698	871947.46	1255019.90	5895294	10.0000
Mitragynine	4.372	265184	1707.08	1056616.22	8153386	10.0000
Morphine	2.368	184764	582.94	48.34	94681	10.0000
Norbuprenorphine	3.928	17042	22.11	7244.11	92242	10.0000
Nordiazepam	4.691	23650	14271.45	27.62	46516	10.0000

TS_cal



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Norfentanyl	3.327	3122262	24102.22	652.13	12317110	10.0000
Norhydrocodone	2.972	37132	32.90	17.21	794460	10.0000
Normeperidine	3.620	931491	246.28	574.28	2702370	10.0000
Noroxycodone	2.909	455790	∞	∞	1406552	10.0000
Nortriptyline	4.493	1096303	166.14	183.71	2660025	10.0000
O-desmethyl-tramadol	2.898	6691749	7951.80	312.61	29928432	10.0000
Olanzapine	4.117	596704	131900.55	2609.67	13716	10.0000
Oxazepam	4.489	24530	15.87	8.74	119132	10.0000
Oxycodone	2.967	1293600	∞	167.08	5076666	10.0000
Oxymorphone	2.393	380725	∞	76.03	1009236	10.0000
Paroxetine	4.467	207776	∞	88.97	2041055	10.0000
Phenazepam	4.619	81922	57761.05	∞	416224	10.0000
Phencyclidine	3.939	2251103	5478.20	75.05	9759159	10.0000
Phentermine	3.147	424846	101.26	7.38	5453622	10.0000
Phenytoloin	4.109	2785	19.23	3.99	13716	10.0000
Promethazine	4.504	4282608	4143995.89	162.41	18730187	10.0000
Pseudoephedrine	2.673	30092170	∞	5953.47	105414573	10.0000
Quetiapine	4.694	2204644	1380917.40	2328715.64	2979243	10.0000
Sertraline	4.640	375358	79.06	1763.94	2041055	10.0000
Sufentanil	4.740	155104	1412.66	124.01	9050473	10.0000
Tapentadol	3.436	2737484	6317.18	600.95	12646326	10.0000
Temazepam	4.641	50989	21.31	6.43	862373	10.0000
Tramadol	3.431	5466310	782.40	258.30	24537334	10.0000
Trazodone	4.910	3204630	530369.12	∞	11910169	10.0000
Venlafaxine	3.811	4025120	714.15	1257.09	20500604	10.0000
Zaleplon	4.334	533944	444.78	319290.80	1260866	10.0000
Zolpidem	4.471	5327307	418.63	266.58	25472971	10.0000
Zopiclone	4.419	108355	62151.08	463.17	573822	10.0000

TS