August 2012 Test Event

Tabulation of Reported Drug Concentrations for Routine Testing Specimens SV1 - SV4

Amphetamine	Methamphetamine	Benzoylecgonine	THCA	Ethanol	Propoxyphene	Norpropoxyphene	Butalbital	EDDP	Methadone	Morphine	6-MAM	Amitriptyline	Ethanol	Nortriptyline	Oxazepam	Phencyclidine	Temazepam
SV1	SV1	SV1	SV 1	SV2	SV2	SV2	SV3	SV3	SV3	SV3	SV3	SV4	SV4	SV4	SV4	SV4	SV4
441	764	169	48	52	350	648	999	532	446	2182	10	1141	32	929	569	57	458
516	985	170	72	53	515	665	1069	551	454	3236	11	1336	35	980	598	59	546
594	1106	193	73	57	569	714	1090	581	466	3292	18	1340	35	1040	683	64	599
615	1127	205	74	63	578	714	1115	598	484	3426	18	1356	36	1090	699	64	615
648	1130	231	76	65	609	752	1175	606	488	3432	19	1368	37	1132	755	65	686
691	1139	242	82	68	630	777	1213	646	505	3439	19	1410	37	1140	760	67	691
700	1230	246	85	69	640	788	1214	646	506	3450	20	1420	38	1165	770	67	703
732	1275	247	87	69	653	794	1219	654	510	3513	20	1534	38	1232	775	68	707
735	1288	259	87	70	663	799	1238	665	525	3516	20	1650	38	1315	778	68	716
751	1333	260	88	70	664	818	1246	693	530	3626	21	1703	38	1322	801	69	716
751	1389	265	88	74	667	828	1252	696	536	3657	21	1704	39	1330	809	70	717
752	1393	267	89	75	680	835	1294	697	538	3720	21	1736	39	1438	816	70	726
764	1401	270	90	76	693	840	1300	704	538	3726	21	1760	40	1566	851	70	757
769	1412	271	90	77	700	845	1300	726	539	3741	21		40		866	70	761
781	1423	273	92	77	729	845	1301	729	540	3754	22		40		874	71	763
783	1426	282	92	77	732	855	1311	730	542	3770	22		40		879	72	766
783	1430	285	98	77	733	856	1322	731	551	3858	22		40		886	72	768
784	1435	286	99	77	744	859	1334	732	553	3886	22		41		891	73	779
801	1436	288	99	78	779	860	1340	735	564	3912	23		41		919	74	781
802	1443	288	100	78	825	860	1345	743	570	3914	23		41		936	74	787
820	1448	293	100	78	853	872	1376	765	571	3963	23		41		943	75	787
839	1449	296	100	78	889	900	1396	773	575	4009	23		42		966	75	794
844	1460	297	102	79		922	1400	785	575	4018	23		42		971	75	795
845	1463	299	103	79		962	1413	786	581	4020	23		42		971	76	799
846	1484	299	103	80		977	1464	797	583	4038	24		43		978	77	801
859	1484	302	104	80		989	1470	806	588	4106	24		44		981	77	808
859	1487	304	106	80		995	1481	821	588	4107	24		44		986	78	812
862	1490	305	111	80		1009	1483	842	589	4112	24		46		1021	78	852
867	1515	310	112	81		1121	1488	878	591	4123	25				1024	78	865
871	1535	313	112	81		1360	1500	913	595	4138	25				1030	80	887
877	1538	392	112	82			1510		595	4144	26				1036	80	899
878	1540		116	83			1511		596	4189	27				1052	81	918
883	1579		116	83			1524		609	4195	29				1061	81	925
892	1591		117	88			1530		612	4220	34				1084	82	936
892	1597		117	88			1580		614	4237	42				1093	82	968
909	1610		118				1650		624	4292	57				1100	82	1116
911	1650		120				1858		624	4295					1105	82	
920	1650		120				1862		637	4300					1115	83	
978	1651		121						644	4333					1138	84	
995	1690		121						656	4346					1192	85	
1032	1754		122						675	4579					1196	87	
1055	1857		125						685	4587					1198	87	
1130	1969		126							4768					1263	90	
1881	2644		132							5100							
			135														
			145														

Weigh-in	**884.0**	**1576.0**	**300.0**	**107.0**	**80.0**	**741.0**	**947.0**	**1481.0**	**782.0**	**591.0**	**4276.0**	**24.0**	**1631.0**	**40.0**	**1300.0**	**1088.0**	**80.0**	**811.0**
Bias of Mean from Weigh-in	-7.0%	-7.4%	-8.3%	-4.0%	-4.5%	-8.4%	-10.5%	-8.5%	-8.5%	-4.3%	-7.5%	-7.4%	-9.7%	-0.5%	-9.6%	-13.7%	-6.5%	-4.4%
Mean	**821.9**	**1459.4**	**275.2**	**102.7**	**76.4**	**678.6**	**847.5**	**1355.2**	**715.7**	**565.5**	**3954.5**	**22.2**	**1472.8**	**39.8**	**1175.2**	**938.4**	**74.8**	**775.6**
SD	**117.4**	**189.6**	**33.4**	**18.1**	**6.7**	**89.0**	**101.0**	**165.1**	**86.5**	**54.4**	**377.0**	**2.8**	**193.0**	**3.0**	**158.5**	**162.1**	**7.5**	**97.9**
CV%	**14.3%**	**13.0%**	**12.1%**	**17.6%**	**8.7%**	**13.1%**	**11.9%**	**12.2%**	**12.1%**	**9.6%**	**9.5%**	**12.4%**	**13.1%**	**7.5%**	**13.5%**	**17.3%**	**10.0%**	**12.6%**
N	**44**	**44**	**31**	**46**	**35**	**22**	**30**	**38**	**30**	**42**	**44**	**36**	**13**	**28**	**13**	**43**	**43**	**36**
Evaluation Criteria*	**2 SD**	**2 SD**	**2 SD**	**2 SD**	**15%**	**2 SD**	**2 SD**	**2 SD**	**2 SD**	**2 SD**	**2 SD**	**2 SD**	**2 SD**	**15%**	**2 SD**	**2 SD**	**2 SD**	**2 SD**

Highlighted cells denote outlier results

*** denotes allowable range = mean ± % or SD of Mean**

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

Wadsworth Center
Analytical Toxicology Proficiency Testing Program
Directed Analysis - August 2012

Laboratories were instructed to analyze specimens SV7 and SV8 for synthetic cannabinoids, synthetic cathinones, ethylglucuronide and ethylsulfate.

Specimen SV8 was prepared to contain the following (SV 7 was a 1:10 dilution of SV8):

Analyte	Concentration (weigh-in, ng/mL)	Participant Mean	SD	CV(%)
JWH-018 N-(5-OH-pentyl) metabolite	10	7.9	3.2	40.5
JWH-018 N-pentanoic acid metabolite	10	9.1	2.6	28.6
AM-2201 N-(4-OH-pentyl) metabolite	10	8.3	1.6	19.0
JWH-250 N-(4-OH-pentyl) metabolite	10	7.5	0.6	7.6
MDPV	340	317.7	52.4	16.5
mephedrone	362	403.7	71.8	17.8
EtG	770	804.9	123.4	15.3
EtS	109	108.1	22.8	21.1

Performance Summary of Drug Identification and Quantification (Specimen SV8):

	JWH-018 N -(5-hydroxypentyl)		JWH-018 N-pentanoic acid		AM-2201 N-(4-hydroxypentyl)		JWH-250 N-(4-hydroxypentyl)		MDPV		mephedrone		EtG		EtS	
laboratory	cutoff (ng/mL)	Lab report (+/- ; ng/mL)	cutoff (ng/mL)	Lab report (+/- or ng/mL)	cutoff (ng/mL)	Lab report (+/- or ng/mL)	cutoff (ng/mL)	Lab report (+/- or ng/mL)	cutoff (ng/mL)	Lab report (ng/mL)	cutoff (ng/mL)	Lab report (ng/mL)	cutoff (ng/mL)	Lab report (ng/mL)	cutoff (ng/mL)	Lab report (ng/mL)
1	0.5	+ (8.6)	0.5	+ (9.2)					10	263	10	298	?	880	100	117
2	0.1	+ (NR)			0.2	+ (NR)	0.5	+ (NR)	10	330	10	410	250	860	100	ND
3	1	+ (NR)	1	+ (NR)	1	+ (NR)	1	+ (NR) [1]	1	286	1	347	?	820	?	101
4		NA	0.2	+ (6.8)	0.2	+ (8.8)	0.5	- (ND) [2]	20	429	20	481	500	734	100	103
5	5	+ (7.4)	5	+ (10.8)					25	356	25	433	36	984	7	90
6	0.5	+ (12.5)	0.5	+ (9.6)	0.5	+ (10.1)	0.5	+ (8.0)	25	373	25	FN [3]	250	827	100	121
7	5	+ (NR)	5	+ (NR)									500	715		
8	0.05	+ (NR) [4]							50	271	50	350				
9	1	+ (8.0)			10	- (6.0)	1	+ (7.0)	25	276	25	476	500	651	100	120
10	15	- (ND)	15	- (ND)					10	340	10	449	500	854	500	ND
11	?	+ (2.6)	?	+ (2.7)					?	252	?	328	250	733		
12	5	- (ND) [5]	5	+ (12.0)	5	+ (8.1)	5		25	322	25	377	?	545	?	77
13			15	- (9.0)	15	- (ND) [6]	15	- (ND)	25	350	25	533	500	1440		
14	1	+ (NR)							50	+ (NR)	50	+ (NR)	500	701		
15									25	250	25	387	500	902	100	172
16														725		
17														723		
18														866		
19														856		
20														936		
21														790		
22														891		
23														965		131
24														527		
25														662		

[1] lab 3 Lab reported a false positive JWH-250 5-OH-pentyl metabolite; lab does not test for the 4-OH-pentyl metabolite that was present in the test specimen

[2] lab 4 Lab tests for JWH-250 N-5-COOH-pentyl metabolite; specimen contained the N-4-hydroxypentyl metabolite and specimen was reported as Negative for JWH-250

[3] lab 6 Lab appears to have reported a transcription error: mephedrone was reported as "Negative,: and methylone reported "Positive," 591 ng/mL.

[4] lab 8 Lab only reports a JWH-018 screen result at a 0.05 ng/mL cutoff; metabolites tested for are not listed.

lab 9 Lab only reports that a metabolite was detected; metabolites tested for are not listed.

[5] lab 12 Lab reported JWH-018 5-OH-pentyl metabolite as ND; 4-OH-pentyl metabolite as 4.5 ng/mL

[5] lab 12 Lab reported JWH-250 5-OH-pentyl metabolite as 7.3 ng/mL; only the 4-OH-pentyl metabolite is present

[6] lab 13 Lab did not list the AM-2201 and JWH-250 metabolites that are tested for; transcription error in reporting EtG