

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias
CA125 all lab mean:							CA125 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:						
mean	22.8	30.4	55.2	34.1	40.9		mean	23.9	31.4	55.0	34.1	41.3	
SD	3.4	4.4	7.3	4.7	5.5		SD	1.3	2.1	3.6	1.9	3.1	
%CV	14.9%	14.6%	13.3%	13.8%	13.5%		%CV	5.6%	6.7%	6.5%	5.7%	7.5%	
N	118	118	118	118	118		N	30	31	31	31	31	
mean+3SD	33.0	43.7	77.2	48.2	57.5		mean+3SD	27.9	37.7	65.7	39.9	50.5	
mean-3SD	12.6	17.1	33.2	20.0	24.3		mean-3SD	19.9	25.1	44.3	28.3	32.0	
mean/all kit median	1.05	1.02	1.00	1.00	0.99	1.01	kit median	23.9	31.7	55.1	34.5	41.3	
							mean/all kit median	1.10	1.06	1.00	1.00	1.00	1.03
CA125 TOSOH ST A1A (TOM/TO2) mean:							CA125 Ortho Clinical Vitros Eci (JJC/JJ1) mean:						
mean	29.8	42.5	72.6	44.0	54.5		mean	20.4	29.8	56.5	34.0	41.2	
N	2	2	2	2	2		SD	4.2	2.4	1.7	0.8	1.2	
mean/all kit median	1.37	1.43	1.32	1.30	1.32	1.35	%CV	20.7%	8.0%	2.9%	2.5%	2.8%	
							N	6	6	6	6	6	
CA125 TOSOH AIA (TOM/TO1) mean:							CA125 Abbott AxSym & Architect (ABB & ABH/AB1) mean:						
mean	26.4	34.8	66.5	42.2	47.9		mean	26.1	36.1	62.5	39.0	47.5	
SD	1.3	1.3	1.3	2.2	2.7		SD	4.1	5.1	6.4	5.1	5.4	
%CV	5.0%	3.9%	1.9%	5.1%	5.5%		%CV	15.8%	14.1%	10.3%	13.0%	11.3%	
N	4	4	4	4	4		N	14	14	14	14	14	
mean+3SD	30.3	38.9	70.3	48.6	55.9		mean+3SD	38.5	51.5	81.9	54.2	63.7	
mean-3SD	22.5	30.8	62.6	35.7	39.9		mean-3SD	13.7	20.8	43.2	23.9	31.3	
kit median	26.6	34.4	66.3	43.1	47.4		kit median	26.6	33.9	61.1	37.7	47.2	
mean/all kit median	1.21	1.17	1.21	1.24	1.16	1.20	mean/all kit median	1.20	1.21	1.14	1.15	1.15	1.17
CA125 Siemens/DPC Immulite 1000 (DPB/DP5) mean:							CA125 Siemens/DPC Immulite 2000 (DPD/DP5) mean:						
mean	21.7	29.1	54.7	33.5	39.5		mean	21.5	27.8	53.2	32.5	38.4	
SD	0.5	1.0	1.3	1.6	2.3		SD	1.5	1.9	3.1	1.8	2.6	
%CV	2.2%	3.5%	2.4%	4.9%	5.9%		%CV	7.0%	6.8%	5.8%	5.6%	6.8%	
N	5	5	5	5	5		N	24	24	23	24	24	
mean+3SD	23.2	32.1	58.7	38.4	46.4		mean+3SD	26.0	33.4	62.5	38.0	46.3	
mean-3SD	20.3	26.0	50.7	28.6	32.5		mean-3SD	17.0	22.1	44.0	27.1	30.6	
kit median	21.6	28.9	54.4	33.7	40.3		kit median	21.2	27.5	54.0	32.6	38.1	
mean/all kit median	1.00	0.98	0.99	0.99	0.96	0.98	mean/all kit median	0.99	0.93	0.97	0.96	0.93	0.96
CA125 Beckman Unicel & Access (BCU & BCX/BC1) mean:							CA125 Siemens/DPC Immulite 2000 (DPD/DP5) mean:						
mean	25.9	32.4	63.4	39.1	45.7		mean	21.5	27.8	53.2	32.5	38.4	
SD	1.1	1.3	2.4	1.1	1.4		SD	1.5	1.9	3.1	1.8	2.6	
%CV	4.4%	4.1%	3.7%	2.8%	3.2%		%CV	7.0%	6.8%	5.8%	5.6%	6.8%	
N	9	9	9	9	9		N	24	24	23	24	24	
mean+3SD	29.3	36.4	70.5	42.4	50.0		mean+3SD	26.0	33.4	62.5	38.0	46.3	
mean-3SD	22.5	28.4	56.4	35.8	41.4		mean-3SD	17.0	22.1	44.0	27.1	30.6	
kit median	25.4	32.5	63.8	39.3	46.0		kit median	21.2	27.5	54.0	32.6	38.1	
mean/all kit median	1.19	1.09	1.15	1.15	1.11	1.14	mean/all kit median	0.99	0.93	0.97	0.96	0.93	0.96

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias
CA125 Siemens/DPC Immulite 2500 (DPF/DP5) mean:							CA125 Roche Elecsys & E170 (BME & BMR/BM1) mean:						
mean	20.9	27.9	54.4	32.5	39.4		mean	19.5	26.9	46.2	28.5	34.5	
SD	0.7	1.1	1.4	2.0	2.0		SD	0.9	1.5	2.7	1.8	2.1	
%CV	3.2%	4.0%	2.6%	6.2%	5.0%		%CV	4.8%	5.7%	5.9%	6.3%	6.2%	
N	5	5	5	5	5		N	15	15	15	15	15	
mean+3SD	22.9	31.3	58.6	38.6	45.3		mean+3SD	22.3	31.4	54.3	33.9	40.9	
mean-3SD	18.9	24.5	50.2	26.5	33.5		mean-3SD	16.7	22.3	38.1	23.1	28.2	
kit median	21.3	27.7	55.0	32.4	38.7		kit median	19.2	26.1	45.9	28.2	34.3	
mean/all kit median	0.96	0.94	0.99	0.96	0.96	0.96	mean/all kit median	0.90	0.90	0.84	0.84	0.84	0.86
CA125 Fujirebio/Centocor (GAA/CE1) mean:							CA125 kit average:						
mean	15.0	20.3	39.7	23.0	30.7		mean	22.8	30.8	56.8	34.8	41.9	
N	2	2	2	2	2		SD	4.1	5.8	9.2	6.1	6.7	
mean/all kit median	0.69	0.68	0.72	0.68	0.74	0.70	all kit median	21.7	29.8	55.0	34.0	41.2	

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias
CA27.29 all lab mean:							CA27.29 TOSOH ST AIA (TOM/TO2) mean:						
mean	23.1	83.5	49.5	39.1	67.4		mean	24.6	82.9	42.2	41.5	64.6	
SD	3.3	3.7	3.3	3.9	3.5		SD	6.8	11.9	12.5	5.9	8.2	
%CV	14.3%	4.4%	6.6%	10.0%	5.3%		%CV	27.5%	14.4%	29.6%	14.1%	12.6%	
mean+3SD	33.0	94.6	59.3	50.8	78.0		mean+3SD	44.9	118.7	79.7	59.1	89.1	
mean-3SD	13.2	72.4	39.8	27.3	56.8		mean-3SD	4.3	47.1	4.8	23.9	40.1	
N	46	46	44	47	45		N	5	5	5	5	4	
mean/all kit median	0.97	1.03	1.06	1.00	1.05	1.02	kit median	28.0	88.0	49.0	42.5	66.6	
							mean/all kit median	1.04	1.02	0.90	1.06	1.00	1.01
CA27.29 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:							CA27.29 Siemens/Bayer ACS-180 (COS/BA1) mean:						
mean	22.8	83.2	49.8	38.8	67.9		mean	21.9	79.0	46.5	34.3	64.3	
SD	2.7	2.1	3.2	2.9	3.2		SD	0.7	5.3	3.8	4.9	3.3	
%CV	12.1%	2.5%	6.5%	7.6%	4.8%		%CV	3.2%	6.7%	8.1%	14.4%	5.1%	
mean+3SD	31.0	89.4	59.6	47.6	77.6		mean+3SD	24.1	94.8	57.7	49.1	74.1	
mean-3SD	14.5	77.0	40.1	30.0	58.2		mean-3SD	19.8	63.1	35.2	19.5	54.5	
N	36	35	36	36	37		N	3	3	3	3	3	
kit median	22.4	83.6	49.0	39.0	67.8		kit median	21.8	78.2	44.5	31.8	63.1	
mean/all kit median	0.96	1.03	1.07	1.00	1.05	1.02	mean/all kit median	0.93	0.98	1.00	0.88	1.00	0.96
CA27.29 TOSOH AIA (TOM/TO1) mean:							CA 27.29 kit average:						
mean	26.3	78.1	46.9	39.1	61.5		mean	23.9	80.8	46.4	38.4	64.6	
N	2	2	2	2	2		SD	1.9	2.6	3.1	3.0	2.6	
mean/all kit median	1.11	0.96	1.00	1.00	0.95	1.01	all kit median	23.7	80.9	46.7	38.9	64.5	

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias	TM176	TM177	TM178	TM179	TM180	Average bias	
CA15-3 all lab mean:							CA15-3 Beckman Unicel & Access (BCU & BCX/BC1) mean:						
mean	27.3	83.6	48.8	40.7	64.3		mean	24.0	74.2	42.7	35.3	55.9	
SD	10.2	32.8	18.9	16.1	24.7		SD	0.9	4.5	1.3	1.7	2.5	
%CV	37.3%	39.2%	38.8%	39.7%	38.3%		%CV	3.7%	6.0%	3.1%	5.0%	4.4%	
mean+3SD	57.8	181.9	105.6	89.1	138.3		mean+3SD	26.6	87.5	46.7	40.5	63.4	
mean-3SD	-3.2	-14.6	-8.0	-7.7	-9.6		mean-3SD	21.3	60.8	38.7	30.0	48.5	
N	54	54	54	54	54		N	6	6	6	6	6	
mean/all kit median	1.21	1.17	1.18	1.19	1.18	1.18	kit median	23.9	72.7	42.6	35.4	55.8	
							mean/all kit median	1.06	1.03	1.03	1.03	1.03	1.04
CA15-3 Siemens/DPC Immulite 1000/2000 (DPB & DPD/DP5) mean:							CA15-3 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:						
mean	46.9	145.8	84.5	71.3	109.8		mean	22.7	72.4	41.4	34.1	54.6	
SD	3.4	10.9	4.1	3.0	9.4		SD	2.9	6.8	4.6	4.4	6.9	
%CV	7.2%	7.5%	4.9%	4.2%	8.6%		%CV	12.7%	9.3%	11.2%	13.0%	12.6%	
mean+3SD	57.0	178.4	96.9	80.2	137.9		mean+3SD	31.3	92.7	55.4	47.5	75.1	
mean-3SD	36.7	113.1	72.1	62.3	81.6		mean-3SD	14.0	52.1	27.5	20.8	34.0	
N	8	8	8	8	8		N	19	19	19	19	19	
kit median	47.2	147.0	85.7	72.0	110.0		kit median	22.0	72.0	40.1	32.0	51.0	
mean/all kit median	2.07	2.03	2.04	2.09	2.01	2.05	mean/all kit median	1.00	1.01	1.00	1.00	1.00	1.00
CA15-3 Siemens/DPC Immulite 2500 (DPF/DP5) mean:							CA15-3 Ortho Clinical Vitros Eci (JJC/JJ1) mean:						
mean	45.1	141.3	84.9	70.6	111.3		mean	20.9	64.4	37.2	30.3	50.7	
SD	2.1	19.1	4.6	2.3	8.1		SD	0.7	4.4	1.7	1.0	2.0	
%CV	4.7%	13.5%	5.4%	3.3%	7.3%		%CV	3.3%	6.8%	4.5%	3.3%	4.0%	
mean+3SD	51.5	198.8	98.6	77.5	135.6		mean+3SD	23.0	77.5	42.2	33.2	56.7	
mean-3SD	38.8	83.9	71.2	63.6	87.1		mean-3SD	18.8	51.4	32.2	27.3	44.6	
N	3	3	3	3	3		N	4	4	4	4	4	
kit median	46.2	147.0	83.5	70.9	116.0		kit median	21.0	64.6	37.5	30.5	50.9	
mean/all kit median	1.99	1.97	2.05	2.07	2.04	2.02	mean/all kit median	0.92	0.90	0.90	0.89	0.93	0.91
CA15-3 Abbott Asxym & Architect (ABB & ABH/AB1) mean:							CA15-3 Roche Elecsys & E170 (BME & BMR/BM1) mean:						
mean	25.8	71.8	42.2	36.7	58.6		mean	19.2	53.0	32.4	27.0	42.5	
SD	2.0	7.0	3.3	2.3	3.8		SD	1.1	3.5	2.4	2.2	3.9	
%CV	7.7%	9.8%	7.9%	6.3%	6.6%		%CV	6.0%	6.6%	7.3%	8.0%	9.1%	
mean+3SD	31.7	92.9	52.2	43.6	70.1		mean+3SD	22.6	63.5	39.5	33.4	54.1	
mean-3SD	19.8	50.6	32.1	29.8	47.1		mean-3SD	15.7	42.5	25.3	20.5	30.9	
N	6	6	6	6	6		N	7	7	7	7	7	
kit median	26.4	70.4	42.4	37.6	56.7		kit median	18.7	51.6	32.2	25.7	40.9	
mean/all kit median	1.14	1.00	1.02	1.07	1.07	1.06	mean/all kit median	0.85	0.74	0.78	0.79	0.78	0.79
* Note: The two DPC results were not included in the calculation of the all kit means and medians because the results from those methods were very different from the results of all the others.							CA 15-3 kit average: *see adjacent note						
							mean	22.5	67.1	39.2	32.7	52.4	
							SD	2.6	8.7	4.4	4.0	6.3	
							all kit median	22.7	71.8	41.4	34.1	54.6	

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias
CA19-9 all lab mean:							CA19-9 TOSOH A1A (TOM/TO1) mean:						
mean	31.1	48.3	37.3	79.0	47.5		mean	20.2	43.4	29.4	44.1	38.4	
SD	10.5	12.8	11.9	24.8	13.1		N	2	2	2	2	2	
%CV	33.7%	26.5%	32.0%	31.4%	27.5%		mean/all kit median	0.97	1.22	1.08	0.85	1.11	1.04
mean+3SD	62.5	86.7	73.1	153.4	86.8		CA19-9 Beckman Access (BCX/BC1) mean:						
mean-3SD	-0.3	9.9	1.5	4.6	8.3		mean	21.4	33.5	26.3	59.6	32.8	
N	55	55	55	55	54	1.42	SD	1.5	1.3	1.5	2.5	1.6	
mean/all kit median	1.50	1.36	1.37	1.53	1.37		%CV	6.8%	3.7%	5.6%	4.2%	5.0%	
CA19-9 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:							mean+3SD	25.8	37.3	30.7	67.0	37.8	
mean	40.9	60.0	48.1	102.0	59.5		mean-3SD	17.1	29.7	21.9	52.1	27.9	
SD	3.6	4.7	3.1	6.2	4.5		N	5	5	5	5	5	
%CV	8.7%	7.9%	6.4%	6.0%	7.5%		kit median	21.7	34.1	26.9	61.0	33.4	
mean+3SD	51.5	74.2	57.3	120.5	72.9		mean/all kit median	1.03	0.94	0.97	1.15	0.95	1.01
mean-3SD	30.2	45.8	38.9	83.6	46.1		CA19-9 TOSOH ST AIA (TOM/TO2) mean:						
N	28	28	28	28	28	1.82	mean	17.1	40.8	27.7	39.3	35.1	
kit median	40.9	59.3	47.7	101.4	58.0		SD	1.0	1.4	2.3	1.4	0.1	
mean/all kit median	1.96	1.68	1.76	1.97	1.72		%CV	5.6%	3.4%	8.4%	3.6%	0.4%	
CA19-9 Roche Elecsys & E170 (BME & BMR/BM1) mean:							mean+3SD	20.0	45.0	34.7	43.6	35.5	
mean	22.1	36.9	27.7	54.9	35.2		mean-3SD	14.2	36.6	20.6	35.0	34.7	
SD	1.6	2.0	2.0	3.3	1.9		N	3	3	2	3	2	
%CV	7.5%	5.4%	7.3%	6.1%	5.3%		kit median	17.0	40.0	27.7	39.0	35.1	
mean+3SD	27.0	42.8	33.7	64.9	40.8		mean/all kit median	0.82	1.14	1.01	0.76	1.01	0.95
mean-3SD	17.2	30.9	21.6	44.9	29.6		CA19-9 Siemens/DPC Immulite 2000/2500 (DPD & DPF/DP5) mean:						
N	6	6	6	6	6	1.04	mean	17.9	30.9	22.2	48.6	30.8	
kit median	22.4	37.6	28.2	54.8	35.8		N	2	2	2	2	2	
mean/all kit median	1.06	1.03	1.01	1.06	1.02		mean/all kit median	0.86	0.87	0.81	0.94	0.89	0.87
CA19-9 Beckman Unicel (BCU/BC1) mean:							CA 19-9 kit average: * see note						
mean	21.5	34.5	26.9	60.5	34.2		mean	20.0	36.7	26.7	51.1	34.4	
SD	1.0	3.3	1.0	2.6	1.4		SD	2.1	4.7	2.4	8.6	2.6	
%CV	4.6%	9.6%	3.9%	4.3%	4.0%		all kit median	20.8	35.7	27.3	51.8	34.6	
mean+3SD	24.4	44.4	30.0	68.3	38.2		* Note: The COB results were not included in the calculation of the all kit means and medians because the results from those methods were very different from the results of all the others.						
mean-3SD	18.5	24.5	23.7	52.6	30.1								
N	8	8	8	8	8	1.03							
kit median	21.8	33.3	26.6	60.9	34.1								
mean/all kit median	1.03	0.97	0.99	1.17	0.99								

New York State Proficiency Test January 2008
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	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias	
CEA all lab mean:							CEA Siemens/Bayer ADVIA-Centaur & ACS-180 (COB & COS/BA1) mean:							
mean	4.7	10.8	12.1	15.4	19.9		mean	5.2	11.9	13.3	16.8	21.7		
SD	0.7	1.7	1.8	2.3	3.1		SD	0.4	0.8	0.8	1.1	1.3		
%CV	16.0%	16.0%	15.2%	15.1%	15.7%		%CV	6.9%	7.0%	6.4%	6.4%	6.1%		
mean+3SD	6.9	15.9	17.6	22.4	29.2		mean+3SD	6.3	14.4	15.9	20.1	25.7		
mean-3SD	2.4	5.6	6.6	8.4	10.5		mean-3SD	4.1	9.4	10.8	13.6	17.7		
N	173	175	175	173	174		N	63	63	63	63	62		
mean/all kit median	0.99	0.99	1.00	0.96	0.96	0.98	kit median	5.2	11.9	13.2	16.9	21.5		
							mean/all kit median	1.10	1.09	1.10	1.05	1.05	1.08	
CEA TOSOH AIA (TOM/TO1) mean:							CEA Siemens/DPC Immulite 1000 (DPB/DP5) mean:							
mean	6.2	14.0	16.2	19.2	26.2		mean	4.8	12.2	13.4	16.9	22.7		
SD	0.3	0.8	0.6	1.2	1.7		SD	0.3	0.7	0.4	0.5	0.7		
%CV	4.0%	5.8%	3.4%	6.3%	6.5%		%CV	6.7%	5.9%	2.6%	3.0%	2.9%		
mean+3SD	7.0	16.5	17.9	22.8	31.3		mean+3SD	5.7	14.3	14.4	18.4	24.7		
mean-3SD	5.5	11.6	14.5	15.6	21.1		mean-3SD	3.8	10.0	12.3	15.3	20.7		
N	3	3	3	3	3		N	3	3	3	3	3		
kit median	6.2	13.9	16.1	19.4	26.1		kit median	4.9	11.8	13.4	17.0	22.8		
mean/all kit median	1.33	1.29	1.34	1.20	1.27	1.29	mean/all kit median	1.01	1.12	1.10	1.06	1.10	1.08	
CEA TOSOH ST AIA (TOM/TO2) mean:							CEA Siemens/DPC Immulite 2000 (DPD/DP5) mean:							
mean	6.1	14.0	15.6	21.3	25.7		mean	4.7	11.8	13.2	17.0	21.9		
SD	0.4	0.8	0.6	1.4	1.2		SD	0.2	0.4	0.6	0.8	1.3		
%CV	5.7%	5.9%	3.7%	6.6%	4.7%		%CV	4.1%	3.6%	4.2%	4.7%	5.7%		
mean+3SD	7.2	16.5	17.3	25.5	29.3		mean+3SD	5.3	13.1	14.9	19.4	25.7		
mean-3SD	5.1	11.5	13.8	17.0	22.1		mean-3SD	4.1	10.5	11.6	14.6	18.2		
N	3	4	4	4	4		N	12	12	12	12	12		
kit median	6.1	13.7	15.3	20.8	25.2		kit median	4.7	11.8	13.1	17.2	21.9		
mean/all kit median	1.30	1.28	1.29	1.33	1.25	1.29	mean/all kit median	1.00	1.08	1.09	1.06	1.06	1.06	
CEA Siemens/DPC Immulite 2500 (DPF/DP5) mean:							CEA Abbott Architect (ABH/AB1) mean:							
mean	4.9	12.5	14.1	18.2	23.1		mean	4.8	10.9	12.1	15.7	20.6		
SD	0.3	1.3	1.3	1.4	1.1		SD	0.4	0.5	0.6	1.2	1.8		
%CV	6.2%	10.0%	8.9%	7.6%	4.8%		%CV	8.5%	4.6%	5.0%	7.7%	8.9%		
mean+3SD	5.8	16.2	17.8	22.4	26.4		mean+3SD	6.0	12.4	13.9	19.3	26.1		
mean-3SD	4.0	8.7	10.3	14.0	19.7		mean-3SD	3.6	9.4	10.3	12.1	15.1		
N	3	3	3	3	3		N	3	3	3	3	3		
kit median	5.0	11.9	13.5	17.4	23.5		kit median	4.7	10.9	12.4	16.4	21.4		
mean/all kit median	1.05	1.14	1.16	1.14	1.12	1.12	mean/all kit median	1.01	1.00	1.00	0.98	1.00	1.00	

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias	
CEA Abbott Asxym (ABB/AB1) mean:							CEA Beckman Access (BCX/BC1) mean:							
mean	4.6	10.6	12.0	15.0	19.8		mean	4.0	9.3	10.3	12.9	16.6		
SD	0.4	1.0	1.1	1.3	1.1		SD	0.2	0.4	0.4	0.5	0.6		
%CV	9.3%	9.5%	9.3%	8.6%	5.7%		%CV	4.1%	4.2%	3.6%	4.0%	3.9%		
mean+3SD	5.9	13.6	15.4	18.9	23.2		mean+3SD	4.5	10.4	11.4	14.5	18.5		
mean-3SD	3.3	7.6	8.6	11.1	16.5		mean-3SD	3.5	8.1	9.2	11.4	14.7		
N	19	19	19	19	19		N	15	15	15	14	14		
kit median	4.7	10.7	12.2	15.3	19.6		kit median	4.0	9.3	10.3	12.9	16.7		
mean/all kit median	0.98	0.97	0.99	0.94	0.96	0.97	mean/all kit median	0.85	0.85	0.85	0.81	0.81	0.83	
CEA Ortho Clinical Vitros Eci (JJC/JJ1) mean:							CEA Roche Elecsys (BME/BM1) mean:							
mean	3.9	10.1	11.7	16.0	19.4		mean	3.9	8.5	9.7	12.2	15.6		
SD	1.4	1.5	0.7	0.6	0.7		SD	0.3	0.4	0.5	0.6	0.8		
%CV	36.7%	14.9%	6.3%	3.7%	3.7%		%CV	8.4%	5.3%	4.9%	4.5%	5.2%		
mean+3SD	8.2	14.6	13.9	17.7	21.5		mean+3SD	4.9	9.8	11.2	13.9	18.1		
mean-3SD	-0.4	5.6	9.5	14.2	17.2		mean-3SD	2.9	7.1	8.3	10.6	13.2		
N	10	10	10	10	10		N	13	13	13	13	13		
kit median	4.0	10.7	11.9	15.8	19.4		kit median	3.9	8.6	9.7	12.1	15.9		
mean/all kit median	0.83	0.92	0.97	1.00	0.94	0.93	mean/all kit median	0.83	0.78	0.80	0.77	0.76	0.79	
CEA Beckman Unicel (BCU/BC1) mean:							CEA Roche E170 (BMR/BM1) mean:							
mean	4.1	9.3	10.3	13.1	16.7		mean	3.7	7.9	9.1	11.6	14.7		
SD	0.3	0.5	0.5	0.9	0.8		SD	0.2	0.3	0.4	0.5	0.7		
%CV	6.1%	5.8%	5.0%	7.1%	4.7%		%CV	6.6%	3.7%	4.5%	4.5%	4.5%		
mean+3SD	4.9	10.9	11.9	15.8	19.0		mean+3SD	4.4	8.8	10.3	13.1	16.7		
mean-3SD	3.3	7.7	8.8	10.3	14.3		mean-3SD	3.0	7.0	7.9	10.0	12.8		
N	13	13	13	13	13		N	12	12	12	12	12		
kit median	4.1	9.3	10.4	12.8	16.8		kit median	3.7	8.0	9.2	11.6	14.9		
mean/all kit median	0.87	0.85	0.85	0.82	0.81	0.84	mean/all kit median	0.78	0.72	0.75	0.73	0.71	0.74	
							CEA kit average:							
							mean	4.7	11.0	12.4	15.8	20.4		
							SD	0.8	2.0	2.2	2.9	3.7		
							all kit median	4.7	10.9	12.1	16.0	20.6		

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias	TM176	TM177	TM178	TM179	TM180	Average bias	
AFP all lab mean:							AFP Abbott Asxym (ABB/AB1) mean:						
mean	9.5	17.4	11.5	28.8	13.8		mean	9.5	17.5	11.4	29.0	13.6	
SD	1.1	1.5	1.0	2.6	1.2		SD	0.6	0.9	0.8	1.8	0.7	
%CV	11.8%	8.7%	9.1%	9.1%	9.0%		%CV	6.2%	5.2%	6.8%	6.2%	5.2%	
mean+3SD	12.8	22.0	14.7	36.6	17.5		mean+3SD	11.3	20.2	13.8	34.3	15.8	
mean-3SD	6.1	12.9	8.4	21.0	10.1		mean-3SD	7.7	14.8	9.1	23.6	11.5	
N	101	99	99	99	100		N	13	13	13	13	13	
mean/target	1.10	1.06	1.09	1.06	1.08	1.08	kit median	9.6	17.6	11.4	29.1	13.7	
							mean/target	1.10	1.07	1.08	1.07	1.07	1.08
AFP Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:							AFP Beckman Unicel (BCU/BC1) mean:						
mean	10.7	18.9	12.7	31.5	15.0		mean	9.0	17.9	11.6	28.6	14.2	
SD	0.9	0.7	0.8	1.6	0.8		SD	0.7	1.1	0.7	2.3	0.7	
%CV	8.2%	3.8%	6.0%	5.1%	5.5%		%CV	7.7%	5.9%	6.0%	8.1%	5.0%	
mean+3SD	13.4	21.1	14.9	36.3	17.5		mean+3SD	11.1	21.1	13.7	35.6	16.3	
mean-3SD	8.1	16.8	10.4	26.7	12.6		mean-3SD	6.9	14.8	9.5	21.6	12.1	
N	25	25	25	25	25		N	11	11	11	11	11	
kit median	10.8	19.0	12.7	31.1	15.0		kit median	9.0	18.0	11.4	29.4	14.1	
mean/target	1.25	1.15	1.19	1.16	1.17	1.19	mean/target	1.05	1.09	1.09	1.06	1.11	1.08
AFP Siemens/DPC Immulite 1000 (DPB/DP5) mean:							AFP Beckman Access (BCX/BC1) mean:						
mean	9.3	17.9	11.9	29.1	13.7		mean	9.2	17.2	11.5	28.8	13.9	
SD	0.4	0.7	0.2	0.5	0.6		SD	1.0	1.9	1.2	2.4	1.3	
%CV	3.8%	3.6%	2.0%	1.6%	4.7%		%CV	10.4%	10.9%	10.5%	8.4%	9.0%	
mean+3SD	10.3	19.8	12.6	30.5	15.6		mean+3SD	12.1	22.8	15.1	36.0	17.7	
mean-3SD	8.2	15.9	11.1	27.7	11.8		mean-3SD	6.3	11.6	7.8	21.5	10.1	
N	4	4	4	4	4		N	3	3	3	3	3	
kit median	9.3	17.7	11.8	29.2	13.8		kit median	9.3	18.0	11.9	29.1	14.0	
mean/target	1.08	1.09	1.12	1.07	1.07	1.09	mean/target	1.07	1.05	1.08	1.06	1.09	1.07
AFP Roche E170 (BMR/BM1) mean:							AFP Roche Elecsys (BME/BM1) mean:						
mean	9.7	17.5	11.4	29.1	13.9		mean	9.1	17.0	11.4	28.5	13.6	
SD	0.9	1.5	0.8	2.1	1.0		SD	0.9	1.3	0.9	2.1	1.2	
%CV	9.7%	8.5%	6.7%	7.1%	7.3%		%CV	9.4%	7.6%	7.5%	7.3%	9.0%	
mean+3SD	12.5	22.0	13.7	35.2	16.9		mean+3SD	11.7	20.9	13.9	34.7	17.2	
mean-3SD	6.9	13.1	9.1	22.9	10.8		mean-3SD	6.6	13.1	8.8	22.3	9.9	
N	10	10	10	10	10		N	4	4	4	4	4	
kit median	9.4	17.2	11.3	28.8	13.7		kit median	9.3	17.3	11.3	28.4	13.7	
mean/target	1.13	1.07	1.08	1.07	1.08	1.09	mean/target	1.06	1.04	1.07	1.05	1.06	1.06

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias	TM176	TM177	TM178	TM179	TM180	Average bias
AFP TOSOH ST A1A (TOM/TO2) mean:							AFP Ortho Clinical Vitros Eci (JJC/JJ1) mean:					
mean	9.3	17.0	11.3	28.2	13.9		mean	8.0	14.0	9.5	23.7	11.2
SD	0.2	0.8	0.4	1.7	0.5		SD	0.3	0.4	0.4	0.6	0.5
%CV	2.5%	4.6%	3.7%	6.0%	3.8%		%CV	4.3%	2.7%	3.9%	2.7%	4.9%
mean+3SD	10.0	19.3	12.5	33.3	15.5		mean+3SD	9.0	15.1	10.6	25.6	12.9
mean-3SD	8.6	14.7	10.0	23.1	12.3		mean-3SD	7.0	12.8	8.3	21.8	9.6
N	3	3	3	3	3		N	4	4	4	4	4
kit median	9.4	17.4	11.4	29.1	14.1		kit median	8.1	14.0	9.5	23.6	11.1
mean/target	1.08	1.04	1.06	1.04	1.09	1.06	mean/target	0.93	0.85	0.89	0.88	0.88

AFP Siemens/DPC Immulite 2500 (DPF/DP5) mean:							AFP kit average:					
mean	8.5	15.6	10.6	25.8	12.9		mean	9.2	17.0	11.2	28.1	13.5
N	2	2	2	2	2		SD	0.7	1.3	0.8	2.1	1.0
mean/target	0.99	0.95	1.00	0.95	1.00	0.98	all kit median	9.2	17.2	11.4	28.6	13.7

	TM176	TM177	TM178	TM179	TM180	Average bias	TM176	TM177	TM178	TM179	TM180	
AFP Siemens/DPC Immulite 2000 (DPD/DP5) mean:							AFP					
mean	8.6	16.1	10.4	26.3	12.6		*IS target	8.6	16.4	10.6	27.1	12.8
SD	0.9	0.7	1.1	1.3	0.8		SD (+/-)	0.3	0.9	0.5	1.4	0.3
%CV	10.0%	4.3%	10.5%	5.1%	6.4%		% CV	3.9%	5.2%	4.7%	5.1%	2.6%
mean+3SD	11.2	18.2	13.7	30.3	15.1		high (30%)	11.2	21.3	13.8	35.2	16.6
mean-3SD	6.0	14.0	7.1	22.3	10.2		low (30%)	6.0	11.5	7.4	19.0	9.0
N	20	18	20	18	19		* target value from a traceable AFP standard					
kit median	8.8	16.0	10.6	26.4	12.8							
mean/target	1.00	0.98	0.98	0.97	0.99	0.99						

	TM176	TM177	TM178	TM179	TM180	Average bias	TM176	TM177	TM178	TM179	TM180	Average bias
PSA all lab mean:							PSA Siemens/DPC Immulite 1000 (DPB/DP5) mean:					
mean	14.4	0.9	3.6	7.3	5.7		mean	15.9	0.8	4.1	8.5	6.4
SD	1.4	0.1	0.3	0.7	0.5		SD	1.0	0.3	0.2	0.5	0.5
%CV	9.5%	10.0%	8.6%	9.3%	9.1%		%CV	6.5%	32.5%	6.0%	5.6%	7.1%
mean+3SD	18.5	1.1	4.5	9.4	7.2		mean+3SD	19.1	1.6	4.9	10.0	7.8
mean-3SD	10.3	0.6	2.7	5.3	4.1		mean-3SD	12.8	0.0	3.4	7.1	5.1
N	268	266	268	268	267		N	8	8	8	8	8
kit median							kit median	16.1	0.9	4.1	8.6	6.5
mean/target	1.16	1.09	1.13	1.15	1.16	1.14	mean/target	1.29	1.02	1.29	1.33	1.31

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias
PSA Siemens/Dade Behring Dimension (DUD/DA1) mean:							PSA Ortho Clinical Vitros Eci (JJC/JJ1) mean:						
mean	16.3	0.9	3.9	8.1	6.4		mean	14.2	0.9	3.7	7.2	5.8	
SD	0.7	0.1	0.2	0.5	0.3		SD	0.7	0.1	0.2	0.3	0.2	
%CV	4.4%	8.4%	4.2%	5.9%	4.9%		%CV	5.0%	16.7%	4.1%	3.8%	2.9%	
mean+3SD	18.5	1.2	4.4	9.5	7.3		mean+3SD	16.3	1.3	4.2	8.1	6.3	
mean-3SD	14.1	0.7	3.4	6.7	5.4		mean-3SD	12.0	0.4	3.3	6.4	5.3	
N	27	27	27	27	26		N	14	14	14	14	14	
kit median	16.2	0.9	3.9	8.0	6.4		kit median	14.3	1.0	3.7	7.3	5.8	
mean/target	1.31	1.17	1.23	1.27	1.30	1.25	mean/target	1.14	1.12	1.16	1.13	1.18	1.15
PSA Beckman Access (BCX/BC2) mean:							PSA Siemens/DPC Immulite 2000 (DPD/DP5) mean:						
mean	15.5	0.9	3.9	7.9	6.1		mean	14.6	0.8	3.7	7.4	5.7	
SD	0.7	0.1	0.2	0.4	0.3		SD	0.7	0.1	0.3	0.7	0.4	
%CV	4.7%	5.6%	5.0%	4.7%	5.1%		%CV	5.0%	13.3%	9.4%	9.3%	6.5%	
mean+3SD	17.6	1.1	4.4	9.0	7.0		mean+3SD	16.8	1.2	4.7	9.5	6.8	
mean-3SD	13.3	0.8	3.3	6.8	5.2		mean-3SD	12.4	0.5	2.6	5.4	4.6	
N	38	38	38	38	38		N	19	19	19	19	19	
kit median	15.5	0.9	3.9	7.9	6.1		kit median	14.7	0.9	3.8	7.4	5.7	
mean/target	1.25	1.15	1.20	1.24	1.25	1.22	mean/target	1.18	1.05	1.15	1.16	1.16	1.14
PSA Beckman Unicel (BCU/BC2) mean:							PSA TOSOH ST AIA (TOM/TO2) mean:						
mean	15.2	0.9	3.7	7.7	5.9		mean	13.7	0.8	3.5	7.1	5.7	
SD	0.7	0.0	0.2	0.3	0.2		SD	0.3	0.1	0.1	0.1	0.1	
%CV	4.6%	5.0%	5.6%	4.4%	4.0%		%CV	2.3%	6.5%	3.5%	1.4%	2.3%	
mean+3SD	17.2	1.0	4.4	8.7	6.6		mean+3SD	14.7	1.0	3.9	7.4	6.1	
mean-3SD	13.1	0.7	3.1	6.6	5.2		mean-3SD	12.8	0.7	3.1	6.8	5.3	
N	18	17	18	18	18		N	5	5	5	5	5	
kit median	15.2	0.9	3.8	7.6	6.0		kit median	13.8	0.8	3.5	7.1	5.7	
mean/target	1.22	1.10	1.17	1.20	1.21	1.18	mean/target	1.11	1.05	1.09	1.11	1.17	1.11
PSA TOSOH AIA (TOM/TO1) mean:							PSA Siemens/DPC Immulite 1000/2000/2500 3G (DPB, D & F/DP6) mean:						
mean	14.8	0.9	3.7	7.5	6.1		mean	14.2	0.8	3.6	7.2	5.6	
SD	1.0	0.1	0.3	0.4	0.3		SD	1.1	0.1	0.5	0.9	0.4	
%CV	6.5%	10.2%	7.5%	4.6%	4.1%		%CV	7.8%	9.8%	12.7%	12.7%	7.6%	
mean+3SD	17.7	1.2	4.6	8.6	6.8		mean+3SD	17.5	1.1	4.9	9.9	6.9	
mean-3SD	11.9	0.6	2.9	6.5	5.3		mean-3SD	10.8	0.6	2.2	4.4	4.3	
N	7	7	7	7	7		N	6	6	6	6	6	
kit median	14.2	0.9	3.6	7.4	6.1		kit median	14.3	0.9	3.4	7.4	5.8	
mean/target	1.19	1.11	1.16	1.18	1.24	1.18	mean/target	1.14	1.04	1.11	1.12	1.15	1.11

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias
free PSA all lab mean:							free PSA Beckman Unicel (BCU/BC2) mean:						
mean	1.69	0.26	0.89	1.46	0.66		mean	2.01	0.31	1.07	1.76	0.80	
SD	0.29	0.05	0.16	0.26	0.13		SD	0.10	0.01	0.06	0.09	0.05	
%CV	17.2%	19.9%	18.5%	17.9%	20.1%		%CV	5.2%	4.6%	5.6%	5.2%	5.9%	
mean+3SD	2.57	0.42	1.38	2.24	1.05		mean+3SD	2.32	0.35	1.25	2.04	0.94	
mean-3SD	0.82	0.10	0.39	0.67	0.26		mean-3SD	1.70	0.27	0.89	1.49	0.65	
N	65	63	64	70	70		N	14	14	14	14	14	
mean/target	1.30	1.37	1.29	1.29	1.29	1.31	kit median	2.01	0.30	1.09	1.74	0.80	
							mean/target	1.55	1.62	1.54	1.56	1.56	1.57
free PSA Beckman Access (BCX/BC2) mean:							free PSA Abbott Asxym (ABB/AB1) mean:						
mean	1.93	0.30	1.03	1.69	0.77		mean	1.30	0.20	0.70	1.16	0.50	
SD	0.09	0.01	0.06	0.07	0.05		SD	0.10	0.00	0.02	0.06	0.02	
%CV	4.9%	3.9%	5.8%	4.3%	6.6%		%CV	7.3%	0.0%	2.2%	5.0%	4.1%	
mean+3SD	2.21	0.34	1.21	1.91	0.92		mean+3SD	1.59	0.20	0.75	1.33	0.56	
mean-3SD	1.65	0.27	0.85	1.47	0.62		mean-3SD	1.02	0.20	0.66	0.98	0.44	
N	17	15	16	18	18		N	3	3	3	4	4	
kit median	1.95	0.30	1.05	1.70	0.80		kit median	1.30	0.20	0.70	1.17	0.50	
mean/target	1.49	1.60	1.49	1.50	1.51	1.52	mean/target	1.00	1.05	1.02	1.02	0.99	1.02
free PSA Siemens/Dade Behring Dimension (DUD/DA1) mean:							free PSA Siemens/DPC Immulite 1000/2000 (DPB & DPD/DP5) mean:						
mean	1.65	0.27	0.84	1.35	0.66		mean	1.32	0.19	0.67	1.15	0.48	
SD	0.05	0.06	0.05	0.06	0.11		SD	0.10	0.01	0.06	0.08	0.03	
%CV	3.0%	22.5%	6.1%	4.6%	16.7%		%CV	7.6%	5.2%	8.5%	6.6%	6.7%	
mean+3SD	1.80	0.45	0.99	1.54	0.99		mean+3SD	1.63	0.22	0.84	1.37	0.58	
mean-3SD	1.50	0.09	0.68	1.17	0.33		mean-3SD	1.02	0.16	0.50	0.92	0.38	
N	7	7	7	7	7		N	8	9	9	9	9	
kit median	1.67	0.24	0.84	1.35	0.62		kit median	1.33	0.20	0.69	1.18	0.49	
mean/target	1.27	1.41	1.21	1.20	1.30	1.28	mean/target	1.02	1.02	0.97	1.01	0.94	0.99
free PSA Roche Elecsys (BME/BM1) mean:							free PSA kit average:						
mean	1.47	0.22	0.78	1.29	0.58		mean	1.59	0.24	0.83	1.37	0.62	
SD	0.11	0.02	0.06	0.08	0.04		SD	0.29	0.05	0.16	0.25	0.13	
%CV	7.6%	8.3%	7.4%	6.2%	6.9%		all kit median	1.47	0.22	0.78	1.29	0.58	
mean+3SD	1.80	0.28	0.95	1.52	0.69								
mean-3SD	1.13	0.17	0.61	1.05	0.46								
N	6	6	6	7	7								
kit median	1.45	0.22	0.76	1.26	0.56								
mean/target	1.13	1.18	1.13	1.14	1.13	1.14							
free PSA Roche E170 (BMR/BM1) mean:							free PSA						
mean	1.42	0.22	0.76	1.23	0.55		* IS target	1.30	0.19	0.69	1.13	0.51	
SD	0.05	0.01	0.03	0.05	0.03		SD (+/-)	0.15	0.01	0.07	0.11	0.04	
%CV	3.4%	5.0%	4.5%	3.8%	5.2%		% CV	11.4%	4.3%	9.7%	9.4%	8.6%	
mean+3SD	1.57	0.25	0.86	1.37	0.64		high (30%)	1.69	0.25	0.90	1.47	0.66	
mean-3SD	1.28	0.18	0.66	1.09	0.47		low (30%)	0.91	0.13	0.48	0.79	0.36	
N	10	9	9	11	11		* target value from a traceable free PSA standard.						
kit median	1.42	0.22	0.76	1.21	0.55								
mean/target	1.10	1.15	1.10	1.09	1.08	1.10							

New York State Proficiency Test January 2008
Summary of Results

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias	
% free PSA all lab mean:							% free PSA AB1/AB1 mean:							
mean	11.3	29.5	24.4	19.6	11.5		mean	9.9	22.8	19.6	16.4	8.6		
SD	1.7	6.0	4.1	2.9	2.0						2.1	0.5		
%CV	15.4%	20.4%	17.0%	14.8%	17.4%						13.0%	6.0%		
mean+3SD	16.5	47.6	36.8	28.3	17.5						22.7	10.1		
mean-3SD	6.1	11.4	12.0	10.9	5.5						10.0	7.0		
N	39	39	49	60	60		N	1	2	2	3	3		
mean/target	1.04	1.14	1.12	1.09	1.09	1.10	mean/target	0.88	0.90	0.91	0.82	0.82	0.89	
% free PSA BCU & BCX/BC2 mean:							% free PSA DPD/DP5 mean:							
mean	13.1	35.0	28.0	21.9	13.0		mean	8.7	23.4	18.2	15.0	8.2		
SD	0.8	2.4	1.5	1.4	1.2		SD	0.7	5.1	1.7	2.0	0.5		
%CV	6.1%	6.8%	5.4%	6.4%	9.3%		%CV	8.5%	21.7%	9.6%	13.4%	6.2%		
mean+3SD	15.5	42.2	32.5	26.1	16.7		mean+3SD	10.9	38.5	23.4	21.0	9.7		
mean-3SD	10.6	27.8	23.4	17.7	9.4		mean-3SD	6.5	8.2	13.0	9.0	6.7		
N	12	13	21	27	27		N	4	3	5	5	5		
kit median	13.0	34.4	28.0	22.0	13.0		kit median	9.0	23.0	18.6	14.1	8.2		
mean/target	1.21	1.35	1.29	1.22	1.24	1.26	mean/target	0.81	0.90	0.84	0.83	0.78	0.83	
% free PSA BME & BMR/BM1 mean:							% free PSA kit average:							
mean	11.0	25.9	22.6	18.5	10.8		mean	10.8	26.8	22.1	17.8	10.3		
SD	0.6	1.6	0.9	1.0	0.9		SD	1.8	4.9	3.8	2.6	2.0		
%CV	5.2%	6.4%	3.8%	5.5%	8.1%		all kit median	10.8	25.9	22.2	17.2	10.8		
mean+3SD	12.8	30.8	25.1	21.6	13.4									
mean-3SD	9.3	20.9	20.0	15.5	8.2									
N	12	11	11	16	16									
kit median	11.1	26.0	22.6	18.2	10.8									
mean/target	1.02	0.99	1.04	1.03	1.03	1.02								
% free PSA DUD/DA1 mean:							% free PSA IS target							
mean	10.6	27.1	22.2	17.2	10.8			TM176	TM177	TM178	TM179	TM180		
SD	0.5	2.2	1.0	0.5	1.4			10.8%	26.0%	21.7%	18.0%	10.5%		
%CV	4.3%	8.0%	4.7%	3.1%	13.3%									
mean+3SD	11.9	33.6	25.3	18.8	15.2									
mean-3SD	9.2	20.6	19.1	15.6	6.5									
N	6	5	6	6	6									
kit median	10.4	26.6	22.5	17.4	10.5									
mean/target	0.98	1.04	1.02	0.96	1.03	1.01								

	TM176	TM177	TM178	TM179	TM180	Average bias		TM176	TM177	TM178	TM179	TM180	Average bias
complexed PSA all lab mean:							complexed/total PSA all lab mean:						
mean	11.9	0.6	2.6	5.6	4.8		mean	84.1%	70.3%	74.2%	77.2%	88.0%	
SD	0.4	0.0	0.1	0.3	0.2		SD	6.6%	4.5%	5.0%	4.0%	6.6%	
%CV	3.7%	6.3%	5.1%	5.2%	4.6%		%CV	7.8%	6.4%	6.8%	5.2%	7.4%	
mean+3SD	13.2	0.7	3.0	6.5	5.5		mean+3SD	103.8%	83.7%	89.3%	89.2%	107.6%	
mean-3SD	10.5	0.5	2.2	4.7	4.2		mean-3SD	64.4%	56.8%	59.0%	65.2%	68.3%	
N	12	12	12	12	12		N	11	11	11	11	10	
all median	12.0	0.6	2.7	5.7	4.9		all median	86.0%	66.7%	75.7%	77.3%	87.5%	