

New York State Proficiency Test September 2008
Summary of Results

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
CA125 all lab:							CA125 Siemens Immulite 1000 (DPB/DP5):						
mean	42.7	121.8	71.9	53.1	75.9		mean	44.0	130.3	74.7	56.6	80.8	
SD	7.2	14.0	9.9	7.9	8.6		SD	1.0	4.2	2.5	1.2	3.3	
%CV	16.9%	11.5%	13.8%	14.9%	11.3%		%CV	2.3%	3.2%	3.3%	2.1%	4.0%	
N	121	114	119	120	114		N	4	4	4	4	4	
mean+3SD	64.4	163.9	101.6	76.9	101.6		mean+3SD	47.0	142.8	82.1	60.2	90.6	
mean-3SD	21.1	79.7	42.1	29.4	50.2		mean-3SD	40.9	117.7	67.2	53.0	71.0	
mean/all kit median	1.01	1.03	1.02	1.02	1.01	1.02	kit median	43.9	129.5	74.7	56.9	81.7	
							mean/all kit median	1.04	1.10	1.06	1.09	1.08	1.07
CA125 TOSOH ST AIA (TOM/TO2):							CA125 Siemens ADVIA-Centaur (COB/BA1):						
mean	60.0	180.3	105.6	78.5	111.1		mean	43.3	121.6	72.4	53.4	76.1	
SD	3.2	2.3	5.5	5.4	8.4		SD	1.8	5.5	4.1	3.1	3.4	
%CV	5.3%	1.3%	5.2%	6.9%	7.5%		%CV	4.1%	4.5%	5.7%	5.9%	4.5%	
N	3	3	3	3	3		N	32	32	32	32	32	
mean+3SD	69.6	187.0	122.2	94.8	136.2		mean+3SD	48.6	138.0	84.8	62.9	86.3	
mean-3SD	50.4	173.5	89.1	62.2	86.0		mean-3SD	38.0	105.2	60.1	44.0	65.9	
kit median	58.6	180.5	104.6	76.0	109.8		kit median	43.3	121.0	72.2	53.1	76.7	
mean/all kit median	1.42	1.52	1.49	1.51	1.48	1.49	mean/all kit median	1.03	1.03	1.02	1.03	1.01	1.02
CA125 TOSOH AIA (TOM/TO1):							CA125 Beckman Unicel & Access (BCU & BCX/BC1):						
mean	59.6	172.7	99.5	72.9	107.3		mean	39.0	115.2	69.1	50.5	73.9	
SD	8.8	24.8	15.2	10.8	14.6		SD	2.5	4.1	4.5	2.8	4.1	
%CV	14.8%	14.3%	15.2%	14.9%	13.6%		%CV	6.5%	3.5%	6.5%	5.5%	5.5%	
N	4	4	4	4	4		N	11	11	11	11	11	
mean+3SD	86.1	246.9	144.9	105.4	151.1		mean+3SD	46.6	127.5	82.6	58.8	86.2	
mean-3SD	33.1	98.4	54.0	40.4	63.4		mean-3SD	31.3	103.0	55.5	42.2	61.7	
kit median	58.3	163.6	93.8	69.6	106.6		kit median	38.7	114.0	67.6	50.6	73.9	
mean/all kit median	1.41	1.46	1.41	1.40	1.43	1.42	mean/all kit median	0.92	0.97	0.98	0.97	0.99	0.97
CA125 Abbott AxSym, IMX & Architect (ABB, ABM & ABH/AB1):							CA125 Siemens Immulite 2000 (DPD/DP5):						
mean	54.2	149.1	88.5	65.4	92.0		mean	39.3	115.3	68.5	50.3	72.3	
SD	3.5	8.3	4.3	2.8	5.2		SD	2.6	6.5	3.4	3.6	4.6	
%CV	6.5%	5.6%	4.9%	4.3%	5.7%		%CV	6.7%	5.6%	4.9%	7.2%	6.4%	
N	15	15	15	15	15		N	24	24	24	24	24	
mean+3SD	64.8	174.0	101.4	73.9	107.7		mean+3SD	47.2	134.7	78.6	61.2	86.1	
mean-3SD	43.6	124.3	75.5	56.9	76.4		mean-3SD	31.4	95.9	58.4	39.5	58.4	
kit median	53.9	149.5	88.5	64.9	90.4		kit median	39.2	115.5	68.2	50.6	73.5	
mean/all kit median	1.28	1.26	1.25	1.26	1.23	1.26	mean/all kit median	0.93	0.97	0.97	0.97	0.96	0.96

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	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
CA125 Roche Elecsys & E170 (BME & BMR/BM1):							CA125 Ortho Clinical Vitros Eci (JJC/JJ1):						
mean	41.1	112.8	66.8	49.9	68.9		mean	31.9	108.8	61.4	41.9	65.7	
SD	2.4	6.5	3.5	3.1	3.8		SD	2.4	4.0	2.2	2.4	2.1	
%CV	5.9%	5.7%	5.3%	6.2%	5.5%		%CV	7.5%	3.6%	3.6%	5.7%	3.2%	
N	16	16	16	16	16		N	5	5	5	5	5	
mean+3SD	48.3	132.1	77.4	59.1	80.2		mean+3SD	39.1	120.7	68.1	49.1	72.0	
mean-3SD	33.8	93.4	56.2	40.6	57.5		mean-3SD	24.7	96.9	54.7	34.8	59.4	
kit median	41.3	112.0	67.0	49.7	69.0		kit median	32.5	109.0	60.4	41.0	66.0	
mean/all kit median	0.97	0.95	0.94	0.96	0.92	0.95	mean/all kit median	0.76	0.92	0.87	0.81	0.88	0.84
CA125 Siemens Immulite 2500 (DPF/DP5):							CA125 Fujirebio/Centocor (GAA/CE1):						
mean	36.3	108.0	63.0	46.6	69.2		mean	24.4	68.9	42.8	31.8	45.9	
SD	1.0	4.2	3.4	1.5	3.2		N	2	2	2	2	2	
%CV	2.6%	3.9%	5.3%	3.1%	4.7%		mean/all kit median	0.58	0.58	0.60	0.61	0.61	0.60
N	5	5	5	5	5		*CA125 kit average:						
mean+3SD	39.2	120.7	73.1	51.0	78.9		mean*	44.9	131.4	76.9	56.6	81.7	
mean-3SD	33.4	95.3	52.9	42.3	59.5		SD*	9.8	26.7	15.5	11.9	16.3	
kit median	36.1	106.0	62.8	46.8	69.6		all kit median*	42.2	118.5	70.7	52.0	75.0	
mean/all kit median	0.86	0.91	0.89	0.90	0.92	0.90	*excluded Fujirebio/Centocor for insufficient data						

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
CA27.29 all lab:							CA27.29 Siemens ADVIA-Centaur & ACS-180 (COB & COS/BA1):						
mean	73.5	12.8	49.0	42.1	26.1		mean	72.4	11.3	48.1	40.9	24.7	
SD	4.9	4.2	4.0	4.2	4.0		SD	3.5	2.6	3.3	3.1	2.6	
%CV	6.7%	33.1%	8.2%	10.0%	15.2%		%CV	4.8%	23.0%	6.9%	7.5%	10.3%	
mean+3SD	88.3	25.5	61.2	54.8	38.0		mean+3SD	82.8	19.1	58.0	50.2	32.4	
mean-3SD	58.8	0.1	36.9	29.4	14.2		mean-3SD	61.9	3.5	38.2	31.7	17.1	
N	49	48	49	49	49		N	41	40	42	41	41	
mean/all kit median	0.96	0.81	0.95	0.95	0.90	0.92	kit median	72.5	11.0	47.7	41.2	25.0	
CA27.29 TOSOH ST AIA (TOM/TO2):							mean/all kit median	0.94	0.72	0.94	0.92	0.85	0.87
mean	80.9	20.2	54.8	47.8	33.2		CA27.29 kit average:						
SD	4.7	1.6	4.2	4.3	2.5		mean	76.6	15.7	51.4	44.4	29.0	
%CV	5.9%	7.9%	7.6%	9.0%	7.6%		SD	6.0	6.3	4.7	4.9	6.0	
mean+3SD	95.1	25.0	67.2	60.7	40.8		all kit median	76.6	15.7	51.4	44.4	29.0	
mean-3SD	66.7	15.4	42.3	34.9	25.6								
N	6	6	6	6	6								
kit median	80.8	20.2	54.5	47.3	33.7								
mean/all kit median	1.06	1.28	1.06	1.08	1.15	1.13							

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	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190	
CA15-3 all lab:							CA15-3 Beckman Unicel & Access (BCU & BCX/BC1):					
mean	72.7	17.4	49.3	42.7	29.6		mean	62.6	15.7	42.3	36.4	25.8
SD	30.0	6.4	20.6	17.1	11.8		SD	3.4	0.5	3.1	1.7	2.2
%CV	41.3%	37.0%	41.7%	40.0%	40.0%		%CV	5.5%	3.5%	7.2%	4.6%	8.5%
mean+3SD	162.8	36.7	111.0	93.8	65.2		mean+3SD	72.9	17.4	51.4	41.4	32.4
mean-3SD	-17.4	-1.9	-12.3	-8.5	-5.9		mean-3SD	52.2	14.1	33.1	31.3	19.2
N	60	60	60	60	60		N	6	6	6	6	6
mean/all kit median	1.17	1.16	1.17	1.17	1.16	1.17	kit median	62.1	16.0	43.0	36.0	26.3
							mean/all kit median	1.01	1.05	1.00	1.00	1.01
												1.01
CA15-3 Siemens Immulite 1000/2000 (DPB & DPD/DP5):							CA15-3 Siemens ADVIA-Centaur (COB/BA1):					
mean	136.1	30.2	90.8	77.9	54.6		mean	62.5	15.0	42.2	36.6	25.5
SD	10.9	1.6	6.9	5.7	3.1		SD	5.6	2.1	5.2	4.4	2.8
%CV	8.0%	5.4%	7.5%	7.3%	5.7%		%CV	9.0%	13.9%	12.2%	11.9%	10.9%
mean+3SD	168.8	35.1	111.4	94.8	63.9		mean+3SD	79.3	21.3	57.6	49.7	33.9
mean-3SD	103.5	25.4	70.3	60.9	45.2		mean-3SD	45.6	8.7	26.7	23.5	17.1
N	8	8	8	8	8		N	21	21	21	21	21
kit median	135.5	30.1	90.1	78.0	54.5		kit median	63.0	15.4	42.0	36.0	24.8
mean/all kit median	2.19	2.01	2.15	2.14	2.14	2.13	mean/all kit median	1.01	1.00	1.00	1.01	1.00
												1.00
CA15-3 Siemens Immulite 2500 (DPF/DP5):							CA15-3 Ortho Clinical Vitros Eci (JJC/JJ1):					
mean	125.7	30.1	90.5	74.7	50.3		mean	56.1	13.2	36.5	32.4	22.3
SD	8.1	2.0	4.6	2.7	2.4		SD	2.9	0.2	1.2	1.0	1.0
%CV	6.4%	6.7%	5.1%	3.7%	4.8%		%CV	5.2%	1.8%	3.4%	2.9%	4.3%
mean+3SD	149.9	36.1	104.3	82.9	57.5		mean+3SD	64.8	13.9	40.2	35.3	25.1
mean-3SD	101.4	24.0	76.7	66.5	43.0		mean-3SD	47.3	12.5	32.8	29.5	19.4
N	3	3	3	3	3		N	4	4	4	4	4
kit median	121.0	30.4	89.8	76.0	50.9		kit median	55.6	13.1	36.6	32.8	22.6
mean/all kit median	2.02	2.00	2.15	2.06	1.97	2.04	mean/all kit median	0.90	0.88	0.87	0.89	0.87
												0.88
CA15-3 Abbott Asxym, IMX & Architect (ABB, ABM & ABH/AB1):							CA15-3 Roche Elecsys/Cobas e411 & E170/Cobas e601(BME & BMR/BM1):					
mean	62.1	15.8	43.1	37.8	26.4		mean	49.0	12.4	33.2	29.2	20.5
SD	7.6	1.8	4.6	4.2	3.2		SD	3.0	0.6	1.7	1.4	1.0
%CV	12.3%	11.2%	10.6%	11.0%	12.2%		%CV	6.0%	4.5%	5.3%	4.8%	4.9%
mean+3SD	85.0	21.1	56.8	50.3	36.0		mean+3SD	57.8	14.1	38.4	33.4	23.6
mean-3SD	39.2	10.5	29.4	25.3	16.7		mean-3SD	40.1	10.7	28.0	25.0	17.5
N	8	8	8	8	8		N	9	9	9	9	9
kit median	59.4	15.5	42.7	38.8	27.1		kit median	50.4	12.6	33.9	29.7	20.7
mean/all kit median	1.00	1.05	1.02	1.04	1.03	1.03	mean/all kit median	0.79	0.83	0.79	0.80	0.80
												0.80
* Note: The two Siemens Immulite 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	58.4	14.4	39.4	34.5	24.1
							SD	6.0	1.5	4.4	3.6	2.6
							all kit median	62.1	15.0	42.2	36.4	25.5

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	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
CA19-9 all lab (COB included):							CA19-9 Roche Elecsys/Cobas e411 & E170/Cobas e601 (BME & BMR/BM1):						
mean	41.4	22.5	51.3	55.8	79.0		mean	32.1	16.6	38.6	41.1	57.0	
SD	11.5	7.8	16.1	18.6	28.4		SD	3.2	2.4	3.4	3.7	4.4	
%CV	27.7%	34.8%	31.5%	33.3%	35.9%		%CV	9.9%	14.6%	8.7%	9.0%	7.7%	
mean+3SD	75.8	45.9	99.8	111.5	164.2		mean+3SD	41.7	23.8	48.7	52.2	70.1	
mean-3SD	7.0	-1.0	2.9	0.1	-6.2		mean-3SD	22.6	9.3	28.5	30.1	43.9	
N	64	64	64	64	64		N	8	8	8	8	8	
mean/all kit median	1.24	1.40	1.33	1.36	1.35	1.34	kit median	32.8	17.3	39.0	41.8	57.7	
							mean/all kit median	0.96	1.03	1.00	1.00	0.97	0.99
CA19-9 all lab (COB excluded):							CA19-9 Beckman Unicel (BCU/BC1):						
mean	31.7	15.8	37.3	39.7	54.5		mean	29.1	16.0	38.4	41.1	60.0	
SD	3.7	2.1	3.8	5.1	10.0		SD	1.8	2.0	2.6	2.8	3.9	
%CV	0.1	0.1	0.1	0.1	0.2		%CV	6.1%	12.3%	6.7%	6.7%	6.5%	
mean+3SD	42.8	22.2	48.7	55.0	84.5		mean+3SD	34.5	21.9	46.1	49.4	71.7	
mean-3SD	20.6	9.4	25.8	24.5	24.5		mean-3SD	23.8	10.1	30.7	32.8	48.3	
N	32	32	32	32	32		N	9	9	9	9	9	
mean/all kit median	0.95	0.98	0.97	0.97	0.93	0.96	kit median	29.0	15.4	38.0	41.0	60.0	
							mean/all kit median	0.87	1.00	1.00	1.00	1.03	0.98
CA19-9 Siemens ADVIA-Centaur (COB/BA1):							CA19-9 TOSOH ST AIA (TOM/TO2):						
mean	52.3	29.8	67.0	73.7	106.3		mean	34.6	13.8	32.3	32.2	37.2	
SD	3.6	3.5	5.2	6.0	7.7		SD	2.1	0.9	0.6	0.6	0.5	
%CV	6.9%	11.6%	7.8%	8.2%	7.3%		%CV	6.0%	6.2%	1.9%	1.8%	1.3%	
mean+3SD	63.2	40.2	82.6	91.8	129.5		mean+3SD	40.8	16.3	34.1	34.0	38.7	
mean-3SD	41.5	19.5	51.3	55.5	83.0		mean-3SD	28.4	11.2	30.5	30.5	35.8	
N	31	31	31	31	31		N	5	5	5	5	5	
kit median	52.0	30.0	67.0	74.6	106.0		kit median	35.3	13.4	32.0	32.4	37.2	
mean/all kit median	1.57	1.85	1.74	1.79	1.82	1.75	mean/all kit median	1.04	0.85	0.84	0.78	0.64	0.83
CA19-9 Beckman Access (BCX/BC1):							CA19-9 TOSOH A1A (TOM/TO1):						
mean	29.9	16.2	38.6	43.3	62.7		mean	36.3	14.5	35.5	34.0	39.4	
SD	2.5	1.3	2.5	1.1	3.3		N	2	2	2	2	2	
%CV	8.3%	8.2%	6.6%	2.5%	5.3%		mean/all kit median	1.09	0.90	0.92	0.83	0.67	0.88
mean+3SD	37.4	20.1	46.3	46.6	72.6		CA 19-9 kit average: * see note						
mean-3SD	22.5	12.2	31.0	40.1	52.8		mean	32.4	15.4	36.7	38.4	51.3	
N	5	5	5	5	5		SD	3.0	1.2	2.8	4.9	12.0	
kit median	29.1	16.0	38.1	43.3	61.0		all kit median	33.4	16.1	38.5	41.1	58.5	
mean/all kit median	0.90	1.00	1.00	1.05	1.07	1.01	* Note: The COB means were not included in the calculation of the all kit means because the results from this method were very different from the results of all the others. However, this method was included in the all kit median calculation.						

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CEA all lab:							CEA Siemens Immulite 1000 (DPB/DP5):						
mean	12.9	4.4	10.1	11.8	23.1		mean	15.1	4.5	10.7	13.1	27.0	
SD	2.4	0.8	1.8	2.1	4.0		SD	0.9	0.2	0.9	0.6	1.8	
%CV	18.4%	17.3%	18.1%	17.7%	17.5%		%CV	5.9%	3.8%	8.3%	4.3%	6.8%	
mean+3SD	20.1	6.6	15.5	18.0	35.2		mean+3SD	17.8	5.0	13.4	14.8	32.5	
mean-3SD	5.8	2.1	4.6	5.5	11.0		mean-3SD	12.4	4.0	8.0	11.4	21.5	
N	180	174	180	180	180		N	3	3	3	3	3	
mean/all kit median	1.01	1.01	1.01	1.00	1.03	1.01	kit median	15.6	4.4	11.0	13.2	27.6	
							mean/all kit median	1.18	1.04	1.08	1.11	1.21	1.12
CEA TOSOH ST AIA (TOM/TO2):							CEA Siemens Immulite 2500 (DPF/DP5):						
mean	18.2	6.2	14.2	16.4	31.3		mean	14.1	4.6	10.9	12.8	25.8	
SD	1.3	0.5	1.0	1.2	1.4		SD	0.1	0.2	0.3	0.2	1.1	
%CV	7.0%	8.5%	7.2%	7.5%	4.6%		%CV	0.4%	3.8%	2.9%	1.2%	4.1%	
mean+3SD	22.0	7.8	17.2	20.0	35.6		mean+3SD	14.3	5.1	11.9	13.2	29.0	
mean-3SD	14.4	4.6	11.1	12.7	27.0		mean-3SD	14.0	4.1	10.0	12.3	22.6	
N	6	6	6	6	6		N	3	3	3	3	3	
kit median	18.3	6.3	14.4	16.5	31.4		kit median	14.1	4.5	10.8	12.8	25.9	
mean/all kit median	1.42	1.43	1.43	1.39	1.40	1.41	mean/all kit median	1.10	1.06	1.10	1.09	1.15	1.10
CEA TOSOH AIA (TOM/TO1):							CEA Siemens Immulite 2000 (DPD/DP5):						
mean	18.1	6.0	13.6	16.1	30.3		mean	14.3	4.5	11.0	12.5	25.9	
SD	0.6	0.2	0.9	0.4	0.6		SD	1.2	0.4	0.8	0.7	1.8	
%CV	3.4%	3.5%	6.7%	2.7%	2.0%		%CV	8.7%	8.4%	7.7%	5.9%	6.9%	
mean+3SD	19.9	6.7	16.3	17.4	32.1		mean+3SD	18.0	5.6	13.5	14.7	31.2	
mean-3SD	16.2	5.4	10.8	14.8	28.5		mean-3SD	10.5	3.3	8.4	10.3	20.5	
N	3	3	3	3	3		N	14	14	14	14	14	
kit median	18.2	6.1	13.2	15.9	30.0		kit median	14.2	4.5	10.8	12.3	25.2	
mean/all kit median	1.41	1.39	1.37	1.37	1.35	1.38	mean/all kit median	1.11	1.02	1.11	1.06	1.16	1.09
CEA Siemens ADVIA-Centaur & ACS-180 original antibody (COB & COS/BA2):							CEA Siemens ADVIA-Centaur new antibody (COB/BA3):						
mean	15.0	5.1	11.7	13.6	26.7		mean	13.9	4.7	11.0	12.7	24.9	
SD	1.3	0.5	0.9	1.2	2.3		SD	0.7	0.4	0.6	0.9	1.3	
%CV	8.9%	9.3%	7.3%	8.6%	8.7%		%CV	5.3%	8.0%	5.2%	6.8%	5.2%	
mean+3SD	19.0	6.5	14.2	17.1	33.7		mean+3SD	16.1	5.8	12.7	15.3	28.8	
mean-3SD	11.0	3.7	9.1	10.0	19.7		mean-3SD	11.7	3.5	9.3	10.1	21.1	
N	27	27	27	27	27		N	32	32	32	32	32	
kit median	15.1	5.1	11.7	13.6	27.0		kit median	14.0	4.6	10.9	12.7	24.9	
mean/all kit median	1.17	1.17	1.17	1.15	1.19	1.17	mean/all kit median	1.09	1.07	1.11	1.08	1.11	1.09

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Summary of Results

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
CEA Abbott Architect (ABH/AB1):							CEA Beckman Unicel (new enhanced CEA2, BCU/BC5):						
mean	13.2	4.5	10.2	12.1	22.5		mean	11.1	3.9	8.6	10.2	19.6	
SD	0.7	0.2	0.1	0.9	0.8		SD	0.4	0.3	0.5	0.8	1.3	
%CV	5.5%	3.9%	1.5%	7.5%	3.4%		%CV	3.9%	6.8%	5.3%	7.5%	6.8%	
mean+3SD	15.4	5.0	10.6	14.9	24.8		mean+3SD	12.4	4.7	9.9	12.4	23.6	
mean-3SD	11.0	3.9	9.7	9.4	20.2		mean-3SD	9.8	3.1	7.2	7.9	15.6	
N	4	4	4	4	4		N	9	9	9	9	9	
kit median	13.4	4.5	10.2	11.9	22.8		kit median	11.1	3.9	8.5	10.1	19.8	
mean/all kit median	1.03	1.02	1.03	1.03	1.01	1.02	mean/all kit median	0.87	0.89	0.86	0.86	0.88	0.87
CEA Beckman Access (new enhanced CEA2, BCX/BC5):							CEA Roche Elecsys/Cobas e411 (BME/BM1):						
mean	12.4	4.2	9.7	11.4	22.2		mean	9.9	3.6	7.8	9.1	17.4	
SD	0.5	0.3	0.4	0.4	0.5		SD	0.6	0.2	0.5	0.6	1.0	
%CV	4.3%	6.9%	3.8%	3.6%	2.2%		%CV	6.2%	6.3%	6.4%	7.1%	5.8%	
mean+3SD	14.0	5.1	10.8	12.6	23.7		mean+3SD	11.7	4.2	9.3	11.0	20.5	
mean-3SD	10.8	3.4	8.6	10.2	20.7		mean-3SD	8.0	2.9	6.3	7.2	14.4	
N	7	7	7	7	7		N	10	10	10	10	10	
kit median	12.4	4.3	9.7	11.5	22.4		kit median	9.8	3.5	7.8	9.0	17.4	
mean/all kit median	0.97	0.98	0.97	0.97	0.99	0.98	mean/all kit median	0.77	0.82	0.78	0.77	0.78	0.78
CEA Abbott Asxym & Imx (ABB & ABM/AB1):							CEA Roche E170/Cobas e601 (BMR/BM1):						
mean	11.8	4.1	9.4	11.0	21.3		mean	9.7	3.4	7.7	9.1	17.2	
SD	0.6	0.2	0.4	0.6	0.9		SD	0.4	0.2	0.4	0.4	0.8	
%CV	5.1%	4.8%	4.5%	5.4%	4.3%		%CV	4.1%	6.9%	4.6%	4.5%	4.4%	
mean+3SD	13.7	4.6	10.7	12.8	24.0		mean+3SD	10.9	4.1	8.8	10.3	19.5	
mean-3SD	10.0	3.5	8.1	9.2	18.5		mean-3SD	8.5	2.7	6.7	7.8	14.9	
N	19	19	19	19	19		N	16	16	16	16	16	
kit median	11.7	4.0	9.4	11.0	21.2		kit median	9.8	3.4	7.9	9.1	17.4	
mean/all kit median	0.93	0.93	0.95	0.93	0.95	0.94	mean/all kit median	0.76	0.79	0.78	0.77	0.77	0.77
CEA Beckman Unicel (original CEA, BCU/BC4):							CEA Ortho Clinical Vitros Eci (JJC/JJ1):						
mean	11.2	3.9	8.5	10.2	20.5		mean	10.1	2.0	7.4	9.4	20.4	
SD	0.6	0.3	0.6	0.7	0.7		SD	0.8	0.8	1.2	1.2	1.0	
%CV	5.0%	8.4%	7.4%	7.0%	3.3%		%CV	7.9%	38.1%	16.0%	12.8%	4.9%	
mean+3SD	12.9	4.9	10.4	12.3	22.4		mean+3SD	12.5	4.2	11.0	12.9	23.4	
mean-3SD	9.6	2.9	6.6	8.0	18.5		mean-3SD	7.7	-0.3	3.8	5.8	17.4	
N	4	4	4	4	4		N	8	9	8	8	8	
kit median	11.2	3.8	8.4	10.1	20.3		kit median	10.1	1.7	6.9	9.0	20.3	
mean/all kit median	0.88	0.90	0.85	0.86	0.91	0.88	mean/all kit median	0.79	0.46	0.75	0.80	0.91	0.74
CEA Beckman Access (original CEA, BCX/BC4):							CEA kit average:						
mean	11.3	3.8	8.7	10.1	19.7		mean	13.1	4.3	10.1	11.8	23.3	
SD	0.5	0.2	0.4	0.5	1.0		SD	2.7	1.0	2.0	2.3	4.3	
%CV	4.6%	4.7%	4.9%	5.0%	4.9%		all kit median	12.8	4.3	9.9	11.8	22.4	
mean+3SD	12.9	4.3	10.0	11.6	22.5								
mean-3SD	9.8	3.3	7.5	8.6	16.8								
N	7	7	7	7	7								
kit median	11.6	3.8	8.8	10.3	19.7								
mean/all kit median	0.89	0.87	0.88	0.86	0.88	0.88							

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Summary of Results

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
AFP all lab:							AFP Roche E170/Cobas e601 (BMR/BM1):						
mean	47.5	9.7	19.2	38.2	28.2		mean	50.2	9.9	20.0	40.0	29.7	
SD	3.3	0.9	1.5	2.2	2.2		SD	2.2	0.4	0.8	1.7	1.5	
%CV	7.0%	9.1%	7.6%	5.7%	7.6%		%CV	4.3%	4.5%	4.1%	4.3%	5.1%	
mean+3SD	57.4	12.4	23.6	44.8	34.7		mean+3SD	56.7	11.3	22.4	45.2	34.3	
mean-3SD	37.5	7.0	14.8	31.7	21.7		mean-3SD	43.7	8.6	17.5	34.8	25.2	
N	106	107	106	102	106		N	12	12	12	12	12	
mean/target	1.06	1.09	1.05	1.01	1.02	1.05	kit median	50.7	10.1	20.2	40.2	29.9	
							mean/target	1.12	1.12	1.10	1.05	1.08	1.09
AFP Siemens ADVIA-Centaur (COB/BA1):							AFP TOSOH ST A1A (TOM/TO2):						
mean	48.8	10.5	20.2	39.5	29.5		mean	47.7	10.0	19.5	37.6	28.6	
SD	2.2	0.8	0.9	1.6	1.3		SD	2.0	0.6	1.2	2.1	1.2	
%CV	4.5%	7.2%	4.6%	3.9%	4.5%		%CV	4.3%	5.6%	6.4%	5.6%	4.2%	
mean+3SD	55.4	12.8	23.0	44.2	33.5		mean+3SD	53.8	11.7	23.2	43.9	32.2	
mean-3SD	42.1	8.2	17.4	34.8	25.6		mean-3SD	41.6	8.3	15.7	31.3	24.9	
N	26	26	26	26	26		N	4	4	4	4	4	
kit median	48.4	10.5	20.0	39.6	29.5		kit median	48.4	10.2	19.7	38.2	28.7	
mean/target	1.09	1.18	1.11	1.04	1.07	1.10	mean/target	1.06	1.12	1.07	0.99	1.03	1.06
AFP Roche Elecsys/Cobas e411 (BME/BM1):							AFP Beckman Unicel & Access (BCU & BCX/BC1):						
mean	50.5	10.1	20.0	40.3	30.1		mean	47.3	9.5	19.2	37.7	28.1	
SD	2.1	0.4	0.7	1.0	0.6		SD	3.3	0.5	1.3	1.8	2.2	
%CV	4.1%	3.5%	3.5%	2.4%	2.0%		%CV	7.0%	5.7%	6.6%	4.7%	8.0%	
mean+3SD	56.7	11.1	22.1	43.1	31.9		mean+3SD	57.1	11.2	23.0	43.0	34.8	
mean-3SD	44.4	9.0	17.9	37.4	28.3		mean-3SD	37.4	7.9	15.4	32.3	21.3	
N	3	3	3	3	3		N	17	17	17	17	17	
kit median	50.3	10.1	20.0	40.3	30.0		kit median	47.1	9.6	19.6	37.7	28.3	
mean/target	1.13	1.13	1.10	1.06	1.09	1.10	mean/target	1.05	1.07	1.05	0.99	1.02	1.04

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Summary of Results

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
AFP Abbott Asym (ABB/AB1):							AFP Ortho Clinical Vitros Eci (JJC/JJ1):						
mean	47.6	9.7	18.9	38.1	28.1		mean	37.5	7.7	14.9	30.2	22.4	
SD	2.8	0.8	1.4	2.2	2.0		SD	0.2	0.3	0.1	0.5	0.3	
%CV	6.0%	7.8%	7.3%	5.9%	7.0%		%CV	0.7%	3.4%	0.8%	1.6%	1.1%	
mean+3SD	56.1	11.9	23.0	44.8	34.0		mean+3SD	38.2	8.5	15.2	31.6	23.2	
mean-3SD	39.1	7.4	14.7	31.4	22.2		mean-3SD	36.8	6.9	14.6	28.7	21.7	
N	11	11	11	11	11		N	4	4	4	4	4	
kit median	48.0	9.7	19.3	37.8	27.9		kit median	37.5	7.8	14.9	30.1	22.5	
mean/target	1.06	1.09	1.04	1.01	1.02	1.04	mean/target	0.84	0.86	0.82	0.80	0.81	0.82
AFP Siemens Immulite 2000/2500 (DPD & F/DP5):							AFP kit average:						
mean	46.5	9.1	18.6	36.4	27.0		mean	46.7	9.5	18.8	37.3	27.9	
SD	2.0	0.6	0.8	1.5	1.2		SD	3.9	0.8	1.6	3.1	2.3	
%CV	4.2%	6.3%	4.6%	4.1%	4.5%		all kit median	47.6	9.7	19.2	37.7	28.1	
mean+3SD	52.4	10.8	21.1	40.8	30.6								
mean-3SD	40.6	7.4	16.0	31.9	23.4								
N	26	26	26	25	26								
kit median	46.3	9.0	18.4	36.2	26.9								
mean/target	1.04	1.02	1.02	0.96	0.98	1.00							
AFP Siemens Immulite 1000 (DPB/DP5):							AFP						
mean	44.5	9.4	17.9	35.7	27.3		*IS target	44.9	8.9	18.2	37.9	27.6	
N	2	2	2	2	2		SD (+/-)	2.0	0.3	0.5	1.3	1.2	
mean/target	0.99	1.05	0.98	0.94	0.99	0.99	% CV	4.4%	2.8%	2.7%	3.5%	4.4%	
							high (30%)	58.4	11.6	23.7	49.3	35.9	
							low (30%)	31.4	6.2	12.7	26.5	19.3	
							* target value from a traceable AFP standard						

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Summary of Results

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190	
PSA all lab:							PSA TOSOH AIA (TOM/TO1):					
mean	9.8	9.0	4.9	4.5	2.5		mean	10.5	9.6	5.5	4.8	2.8
SD	1.0	0.9	0.5	0.4	0.2		SD	0.8	0.8	0.4	0.2	0.2
%CV	9.9%	9.7%	9.3%	9.3%	8.3%		%CV	7.4%	7.9%	7.7%	3.6%	8.8%
mean+3SD	12.8	11.6	6.3	5.8	3.1		mean+3SD	12.9	11.8	6.8	5.3	3.5
mean-3SD	6.9	6.4	3.5	3.3	1.9		mean-3SD	8.2	7.3	4.2	4.2	2.0
N	267	267	267	267	266		N	7	7	7	7	7
mean/target	1.13	1.10	1.12	1.08	1.12	1.11	kit median	10.7	9.5	5.5	4.8	2.8
							mean/target	1.21	1.17	1.26	1.13	1.26
												1.20
PSA Beckman Access (BCX/BC2):							PSA Siemens Immulite 1000/2000/2500 (DPB, D &F/DP5):					
mean	10.8	10.1	5.4	5.1	2.7		mean	10.2	9.3	5.2	4.7	2.5
SD	0.5	0.4	0.2	0.2	0.1		SD	0.7	0.8	0.4	0.4	0.2
%CV	4.6%	4.2%	4.3%	4.7%	4.8%		%CV	7.1%	8.5%	7.4%	8.5%	7.8%
mean+3SD	12.3	11.3	6.1	5.8	3.1		mean+3SD	12.3	11.7	6.3	5.9	3.1
mean-3SD	9.3	8.8	4.7	4.3	2.3		mean-3SD	8.0	6.9	4.0	3.5	1.9
N	31	31	31	31	31		N	28	28	28	28	28
kit median	11.0	10.1	5.4	5.0	2.7		kit median	10.2	9.4	5.3	4.8	2.5
mean/target	1.25	1.23	1.23	1.20	1.23	1.23	mean/target	1.17	1.13	1.17	1.11	1.14
												1.15
PSA Beckman Unicel (BCU/BC2):							PSA Abbott Architect (ABH/AB1):					
mean	10.6	9.8	5.4	5.0	2.6		mean	10.4	9.0	5.0	4.5	2.5
SD	0.6	0.4	0.2	0.2	0.2		SD	0.7	0.4	0.2	0.3	0.2
%CV	5.5%	4.5%	3.8%	4.9%	5.7%		%CV	6.8%	4.6%	4.1%	5.6%	6.4%
mean+3SD	12.4	11.1	6.0	5.7	3.1		mean+3SD	12.5	10.2	5.6	5.2	3.0
mean-3SD	8.9	8.5	4.7	4.2	2.2		mean-3SD	8.3	7.8	4.4	3.7	2.0
N	19	19	19	19	19		N	6	6	6	6	6
kit median	10.5	9.8	5.4	4.9	2.6		kit median	10.5	9.0	5.0	4.5	2.6
mean/target	1.22	1.20	1.22	1.18	1.19	1.20	mean/target	1.20	1.10	1.13	1.06	1.15
												1.13
PSA Siemens Dimension (DUD/DA1):							PSA TOSOH ST AIA (TOM/TO2):					
mean	11.0	9.9	5.4	4.9	2.7		mean	9.6	8.7	4.9	4.5	2.4
SD	0.7	0.5	0.4	0.3	0.2		SD	0.5	0.4	0.3	0.2	0.1
%CV	6.3%	5.2%	7.0%	6.4%	6.4%		%CV	5.5%	4.7%	5.1%	5.5%	4.6%
mean+3SD	13.1	11.4	6.5	5.9	3.2		mean+3SD	11.2	9.9	5.7	5.3	2.8
mean-3SD	8.9	8.4	4.3	4.0	2.2		mean-3SD	8.0	7.5	4.2	3.8	2.1
N	26	26	26	26	26		N	7	7	7	7	7
kit median	11.0	10.1	5.5	4.9	2.7		kit median	9.5	8.7	4.9	4.5	2.5
mean/target	1.26	1.21	1.23	1.17	1.21	1.22	mean/target	1.10	1.06	1.12	1.08	1.11
												1.10

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Summary of Results

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190	
PSA Abbott Asxym & Imx (ABB & ABM/AB1):							PSA Ortho Clinical Vitros Eci (JJC/JJ1):					
mean	9.9	8.4	4.6	4.2	2.4		9.3	8.1	4.7	4.1	2.4	
SD	0.6	0.6	0.3	0.2	0.1		0.3	0.3	0.2	0.2	0.1	
%CV	5.8%	6.7%	5.7%	5.8%	5.9%		3.1%	4.0%	3.9%	4.2%	4.9%	
mean+3SD	11.6	10.1	5.4	5.0	2.8		10.1	9.1	5.3	4.6	2.8	
mean-3SD	8.2	6.7	3.8	3.5	1.9		8.4	7.1	4.2	3.6	2.1	
N	22	22	22	22	22		14	14	14	14	14	
kit median	9.7	8.2	4.7	4.2	2.4		9.3	8.1	4.7	4.1	2.4	
mean/target	1.13	1.02	1.05	1.01	1.07	1.06	1.07	0.99	1.07	0.97	1.10	1.04
PSA Roche E170/Cobas e601 (BMR/BM1):							PSA Roche Elecsys/Cobas e411 (BME/BM1):					
mean	9.1	8.7	4.6	4.5	2.3		8.7	8.4	4.4	4.3	2.3	
SD	0.4	0.3	0.2	0.2	0.1		0.5	0.5	0.2	0.2	0.1	
%CV	4.4%	3.9%	4.0%	4.6%	4.4%		6.0%	6.4%	5.5%	5.1%	4.5%	
mean+3SD	10.3	9.8	5.2	5.1	2.6		10.3	10.1	5.2	4.9	2.6	
mean-3SD	7.9	7.7	4.1	3.8	2.0		7.2	6.8	3.7	3.6	2.0	
N	18	18	18	18	18		20	20	20	20	20	
kit median	9.1	8.8	4.7	4.5	2.4		8.8	8.4	4.5	4.3	2.3	
mean/target	1.05	1.07	1.05	1.06	1.06	1.06	1.00	1.03	1.01	1.01	1.03	1.02
PSA Siemens Immulite1000/2000/2500 3G (DPB, D & F/DP6):							PSA kit average:					
mean	9.6	8.4	4.8	4.2	2.3		9.9	9.0	5.0	4.5	2.5	
SD	1.4	1.1	0.6	0.6	0.2		0.7	0.7	0.4	0.3	0.2	
%CV	14.5%	13.0%	11.6%	14.6%	10.1%		all kit median	9.9	8.7	4.9	4.5	2.4
mean+3SD	13.8	11.7	6.4	6.0	3.0							
mean-3SD	5.4	5.1	3.1	2.4	1.6							
N	7	7	7	7	7							
kit median	9.7	8.4	4.5	4.1	2.3							
mean/target	1.11	1.02	1.08	1.00	1.06	1.05						
PSA Siemens ADVIA-Centaur & ACS-180 (COB & COS/BA1):							PSA					
mean	9.1	8.4	4.6	4.3	2.3		* Assigned IS target	TM186	TM187	TM188	TM189	TM190
SD	0.5	0.5	0.2	0.2	0.1		SD (+/-)	8.7	8.2	4.4	4.2	2.2
%CV	5.9%	5.5%	5.2%	5.2%	4.9%		% CV	0.3	0.4	0.1	0.1	0.1
mean+3SD	10.7	9.8	5.3	5.0	2.7		high (25%)	3.7%	4.4%	3.0%	2.9%	2.6%
mean-3SD	7.5	7.0	3.9	3.6	2.0		low (25%)	10.9	10.3	5.5	5.3	
N	60	59	60	60	60		high (30%)	6.5	6.2	3.3	3.2	
kit median	9.1	8.3	4.6	4.3	2.4		low (30%)					2.9
mean/target	1.05	1.02	1.05	1.02	1.07	1.04	* target value from a traceable PSA standard					1.5

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Summary of Results

	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190	
free PSA all lab:							free PSA Roche E170/Cobas e601 (BMR/BM1):					
mean	1.05	3.55	0.55	1.79	0.29		mean	0.91	3.10	0.49	1.57	0.26
SD	0.18	0.64	0.10	0.33	0.05		SD	0.06	0.17	0.03	0.08	0.03
%CV	17.3%	18.0%	18.6%	18.3%	18.8%		%CV	6.8%	5.4%	5.4%	5.4%	13.2%
mean+3SD	1.59	5.46	0.86	2.78	0.45		mean+3SD	1.10	3.60	0.57	1.82	0.36
mean-3SD	0.51	1.64	0.24	0.81	0.13		mean-3SD	0.73	2.59	0.41	1.31	0.16
N	77	80	80	81	70		N	12	12	12	12	10
mean/target	1.23	1.22	1.25	1.20	1.31	1.24	kit median	0.90	3.14	0.50	1.60	0.26
							mean/target	1.08	1.06	1.11	1.05	1.19
												1.10
free PSA Beckman Unicel (BCU/BC2):							free PSA Abbott Asxym, Architect & Imx (ABB, ABH & ABM/AB1):					
mean	1.26	4.30	0.66	2.19	0.33		mean	0.86	2.93	0.44	1.47	0.22
SD	0.06	0.19	0.04	0.14	0.03		SD	0.04	0.18	0.05	0.11	0.02
%CV	4.8%	4.4%	6.5%	6.3%	10.5%		%CV	4.5%	6.1%	10.7%	7.4%	8.9%
mean+3SD	1.44	4.87	0.79	2.61	0.43		mean+3SD	0.98	3.46	0.58	1.80	0.27
mean-3SD	1.08	3.74	0.53	1.78	0.23		mean-3SD	0.75	2.39	0.30	1.15	0.16
N	14	14	14	14	14		N	6	7	7	7	4
kit median	1.27	4.25	0.67	2.20	0.33		kit median	0.87	2.90	0.44	1.45	0.21
mean/target	1.48	1.48	1.50	1.47	1.50	1.49	mean/target	1.01	1.01	1.00	0.99	0.98
												1.00
free PSA Beckman Access (BCX/BC2):							free PSA Siemens Immulite 2000 (DPD/DP5):					
mean	1.25	4.26	0.67	2.16	0.34		mean	0.85	2.88	0.44	1.44	0.23
SD	0.04	0.18	0.03	0.07	0.03		SD	0.05	0.23	0.04	0.10	0.02
%CV	3.5%	4.2%	4.8%	3.1%	9.4%		%CV	6.2%	7.8%	8.8%	6.7%	9.1%
mean+3SD	1.38	4.79	0.76	2.36	0.44		mean+3SD	1.01	3.56	0.56	1.73	0.29
mean-3SD	1.12	3.72	0.57	1.96	0.25		mean-3SD	0.69	2.20	0.32	1.15	0.17
N	17	18	18	18	16		N	12	13	12	13	12
kit median	1.25	4.26	0.67	2.14	0.34		kit median	0.85	2.90	0.44	1.44	0.23
mean/target	1.47	1.46	1.52	1.45	1.55	1.49	mean/target	1.00	0.99	1.00	0.97	1.05
												1.00
free PSA Siemens Dimension (DUD/DA1):							free PSA kit average:					
mean	1.03	3.45	0.53	1.70	0.28		mean	1.01	3.43	0.53	1.73	0.27
SD	0.04	0.16	0.03	0.03	0.02		SD	0.17	0.61	0.10	0.31	0.05
%CV	4.0%	4.7%	4.8%	1.8%	6.0%		all kit median	0.93	3.12	0.49	1.59	0.26
mean+3SD	1.15	3.94	0.60	1.78	0.33							
mean-3SD	0.91	2.96	0.45	1.61	0.23							
N	7	7	8	8	7							
kit median	1.02	3.47	0.53	1.69	0.29							
mean/target	1.21	1.19	1.20	1.14	1.28	1.20						
free PSA Roche Elecsys/Cobas e411 (BME/BM1):							free PSA					
mean	0.93	3.12	0.48	1.59	0.26		TM186	TM187	TM188	TM189	TM190	
SD	0.05	0.14	0.03	0.07	0.04		* IS target	0.85	2.91	0.44	1.49	0.22
%CV	5.4%	4.6%	5.6%	4.7%	13.3%		SD (+/-)	0.02	0.07	0.01	0.04	0.01
mean+3SD	1.08	3.55	0.56	1.81	0.37		% CV	2.4%	2.5%	2.9%	2.5%	2.7%
mean-3SD	0.78	2.69	0.40	1.36	0.16		high (30%)	1.11	3.78	0.57	1.94	0.29
N	9	9	9	9	7		low (30%)	0.60	2.04	0.31	1.04	0.15
kit median	0.92	3.07	0.48	1.58	0.25		* target value from a traceable free PSA standard.					
mean/target	1.10	1.07	1.09	1.07	1.20	1.11						

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	TM186	TM187	TM188	TM189	TM190		TM186	TM187	TM188	TM189	TM190		
% free PSA all lab:							% free PSA ABB, ABH & ABM/AB1:						
mean	10.1	37.7	10.8	37.9	11.3		mean	8.5	34.6	9.2	33.6	9.1	
SD	1.5	5.4	1.6	5.6	2.0		SD	0.6	0.9	0.8	2.2	0.1	
%CV	15.3%	14.4%	14.9%	14.8%	17.4%		%CV	6.6%	2.7%	8.6%	6.7%	1.3%	
mean+3SD	14.8	53.9	15.6	54.7	17.2		mean+3SD	10.2	37.4	11.6	40.3	9.4	
mean-3SD	5.5	21.5	6.0	21.1	5.4		mean-3SD	6.8	31.8	6.9	26.8	8.7	
N	56	65	71	71	55		N	5	7	7	7	3	
mean/target	1.06	1.06	1.08	1.06	1.14	1.08	kit median	8.4	34.8	9.0	33.9	9.0	
							mean/target	0.89	0.98	0.92	0.94	0.92	0.93
% free PSA BCU & BCX/BC2:							% free PSA DPD/DP5:						
mean	11.8	43.8	12.3	43.5	12.9		mean	8.0	30.7	8.5	30.5	8.8	
SD	0.8	2.5	0.8	3.5	1.3		SD	0.6	2.9	1.2	2.9	0.8	
%CV	6.7%	5.7%	6.4%	8.0%	10.3%		%CV	7.3%	9.4%	13.8%	9.4%	8.8%	
mean+3SD	14.2	51.3	14.7	53.9	16.9		mean+3SD	9.8	39.3	12.0	39.0	11.1	
mean-3SD	9.4	36.3	9.9	33.0	8.9		mean-3SD	6.3	22.0	5.0	21.9	6.5	
N	15	22	27	27	21		N	9	9	9	9	9	
kit median	12.0	43.4	12.0	43.0	13.0		kit median	8.0	32.0	9.0	29.9	9.0	
mean/target	1.23	1.24	1.23	1.21	1.30	1.24	mean/target	0.84	0.87	0.85	0.85	0.89	0.86
% free PSA BME & BMR/BM1:							% free PSA kit average:						
mean	10.3	36.1	10.6	36.2	11.3		mean	9.6	36.0	10.1	35.7	10.5	
SD	0.6	2.4	0.7	2.3	1.5		SD	1.5	4.8	1.5	4.8	1.7	
%CV	5.8%	6.6%	6.2%	6.4%	13.4%		all kit median	9.4	35.0	9.9	34.6	10.6	
mean+3SD	12.1	43.2	12.6	43.2	15.8								
mean-3SD	8.5	28.9	8.6	29.3	6.8								
N	19	19	19	19	14								
kit median	10.0	35.9	10.5	36.0	11.0								
mean/target	1.08	1.02	1.06	1.01	1.14	1.06							
% free PSA DUD/DA1:							% free PSA IS target	TM186	TM187	TM188	TM189	TM190	
mean	9.4	35.0	9.9	34.6	10.6			9.6%	35.4%	10.0%	35.9%	9.9%	
SD	1.2	3.4	0.7	2.5	1.0								
%CV	12.4%	9.8%	6.8%	7.2%	9.1%								
mean+3SD	13.0	45.2	11.9	42.0	13.5								
mean-3SD	5.9	24.7	7.9	27.1	7.7								
N	6	6	7	7	6								
kit median	9.3	33.9	10.0	33.7	10.7								
mean/target	0.98	0.99	0.99	0.96	1.07	1.00							
complexed PSA all lab:							% complexed PSA COB/BA1:						
mean	8.3	5.3	4.2	2.7	2.1		mean	89.9%	62.5%	90.0%	61.9%	85.5%	
SD	0.3	0.2	0.2	0.1	0.1		SD	3.7%	3.0%	5.5%	3.2%	3.6%	
%CV	3.8%	4.3%	4.0%	5.0%	3.3%		%CV	4.1%	4.8%	6.1%	5.1%	4.3%	
mean+3SD	9.3	6.0	4.7	3.1	2.3		mean+3SD	101.0%	71.5%	106.3%	71.4%	96.4%	
mean-3SD	7.4	4.6	3.7	2.3	1.8		mean-3SD	78.8%	53.5%	73.6%	52.4%	74.5%	
N	11	11	11	11	11		N	8	8	8	8	8	
all median	8.2	5.4	4.2	2.7	2.0		all median	89.5%	63.3%	92.3%	62.2%	85.1%	