

Fig. 2-2 コピー数算出に及ぼす検量線の影響
(ABI PRISM 7500,
4点検量線)

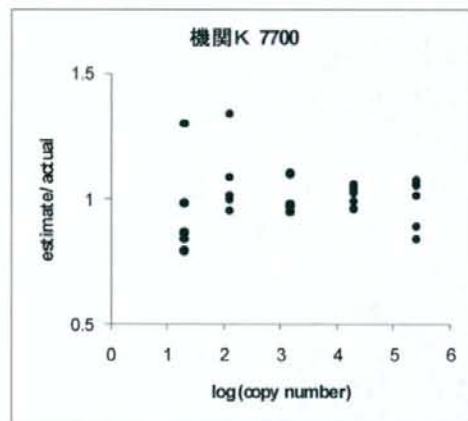
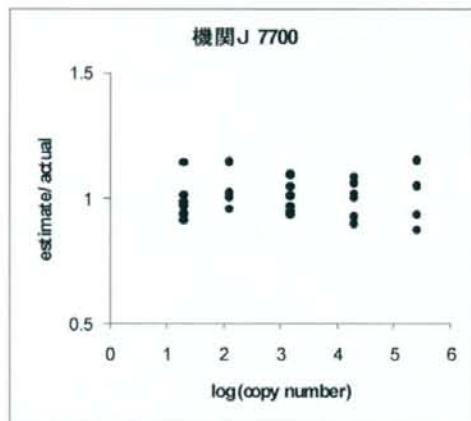


Fig. 3-1 コピー数算出に及ぼす検量線の影響 (ABI PRISM 7700, 5点検量線)

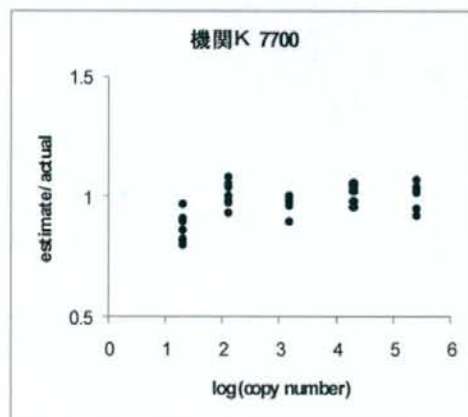
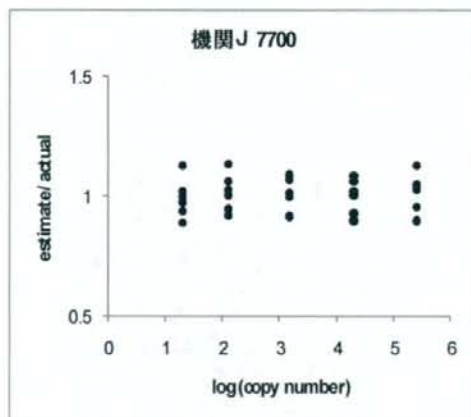


Fig. 3-2 コピー数算出に及ぼす検量線の影響 (ABI PRISM 7700, 4点検量線)

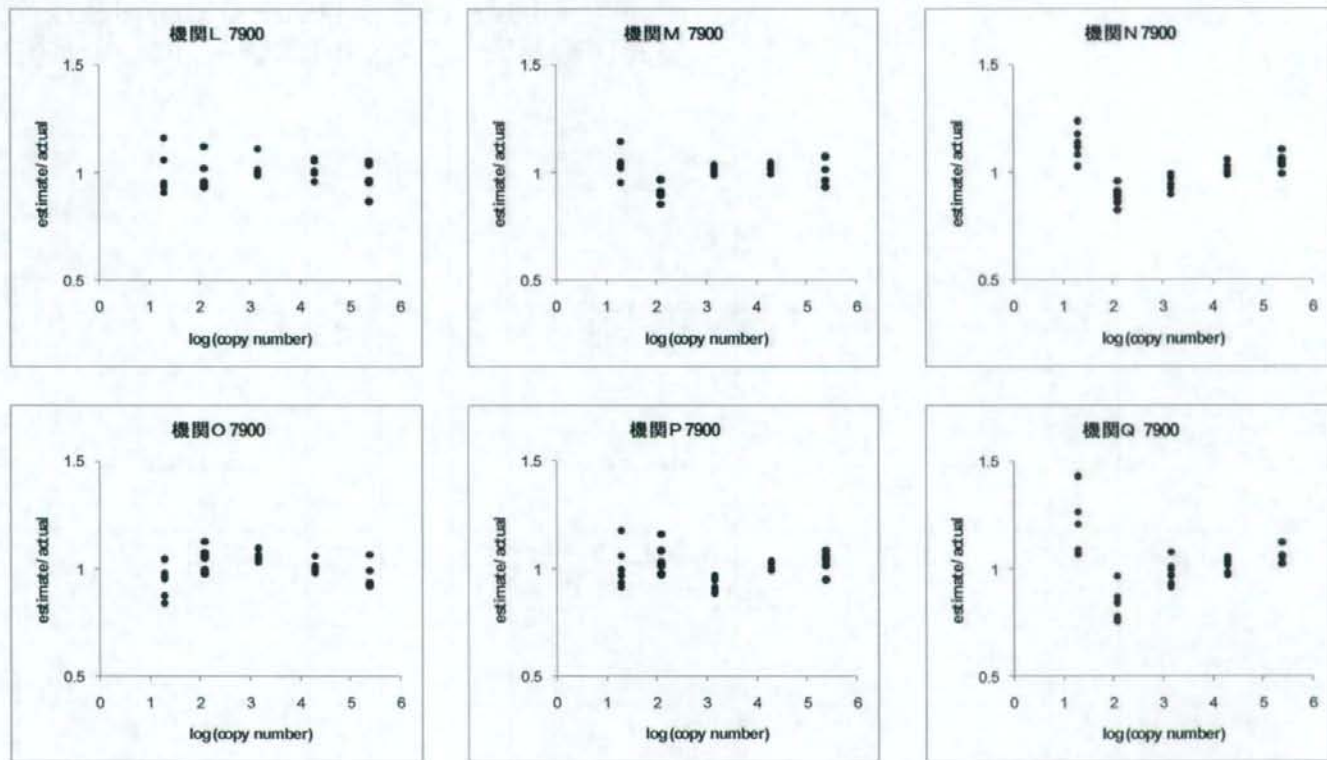


Fig. 4-1a コピー数算出に及ぼす検量線の影響
(ABI PRISM 7900 HT, 5点検量線, 機関L~Q)

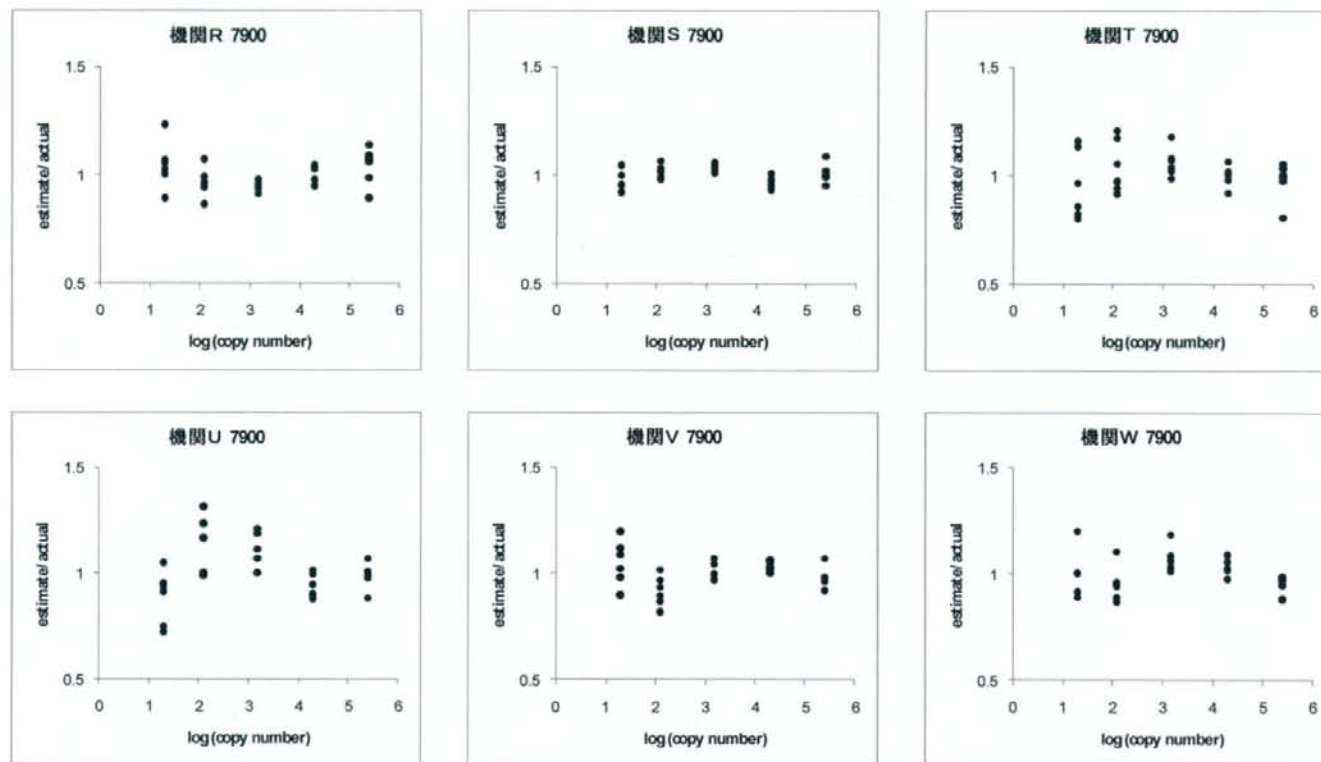


Fig. 4-1b コピー数算出に及ぼす検量線の影響
(ABI PRISM 7900 HT-5点検量線, 機関R~W)

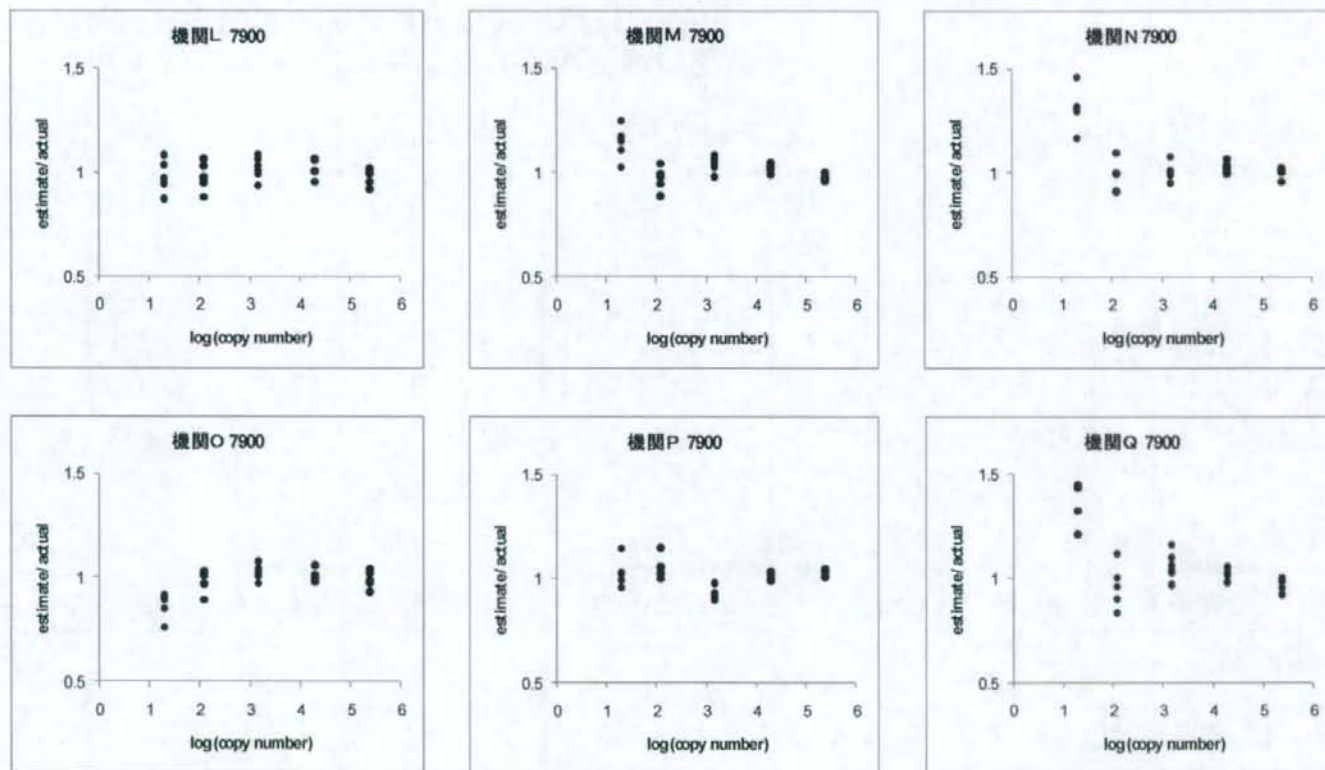


Fig. 4-2a コピー数算出に及ぼす検量線の影響
(ABI PRISM 7900 HT, 4点検量線, 機関L~Q)

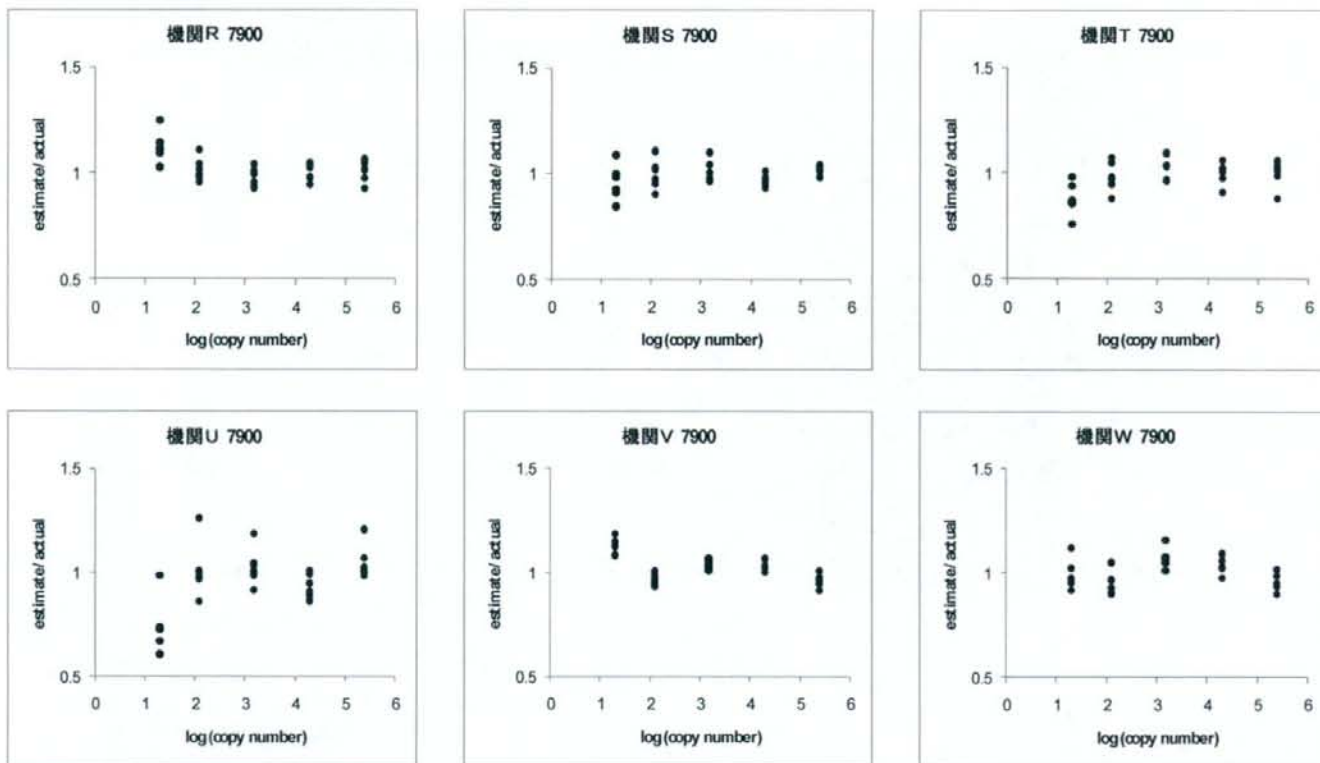


Fig. 4-2b コピー数算出に及ぼす検量線の影響
(ABI PRISM 7900 HT, 4点検量線, 機関R~W)

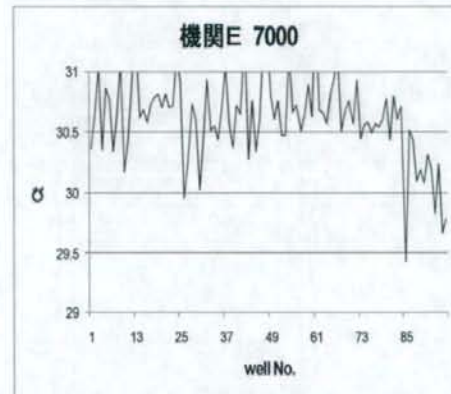
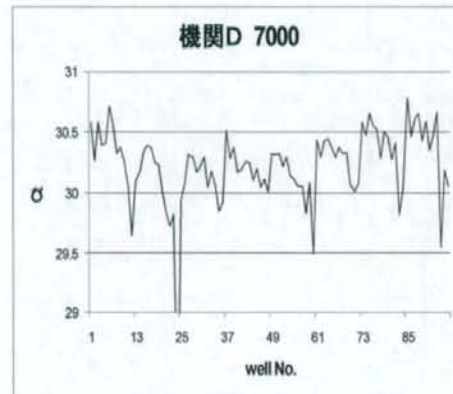
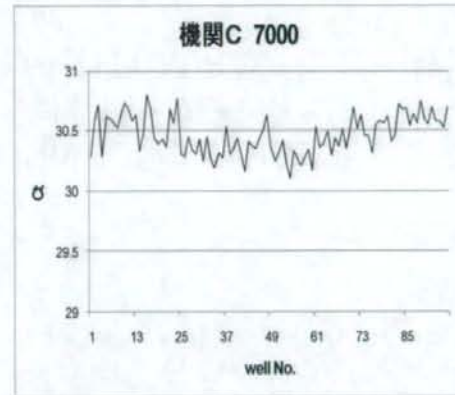
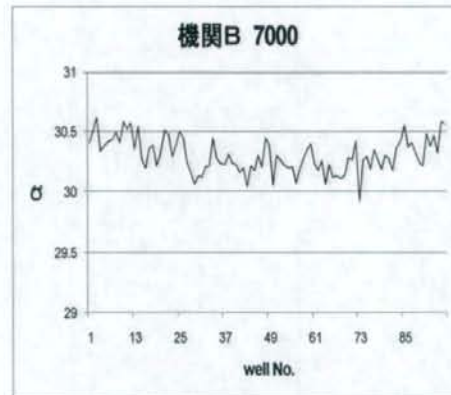
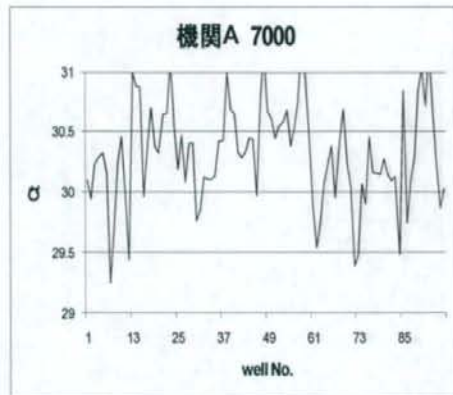


Fig. 5-1 ウェルの位置による測定値への影響
(ABI PRISM 7000, α 値)

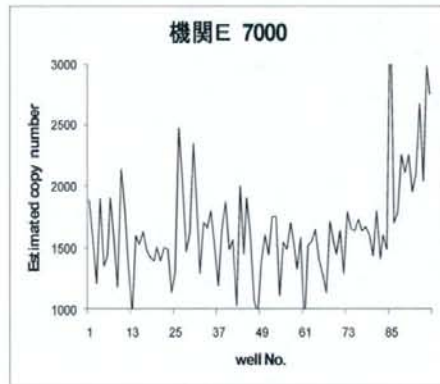
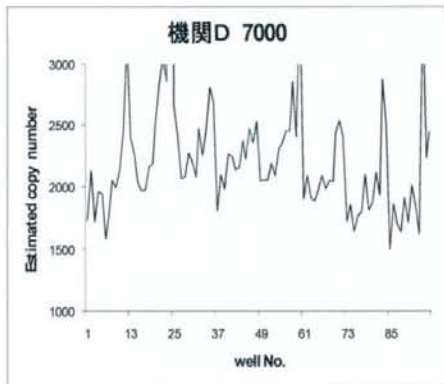
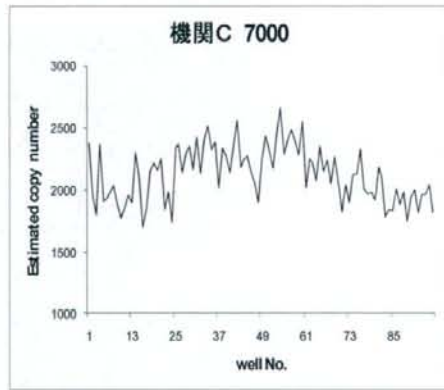
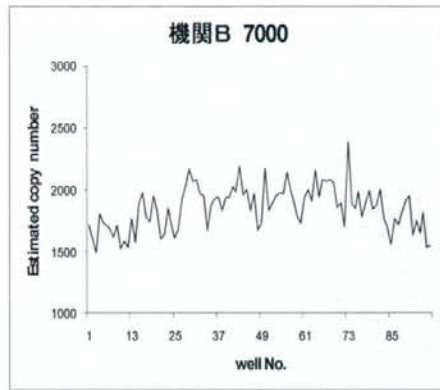
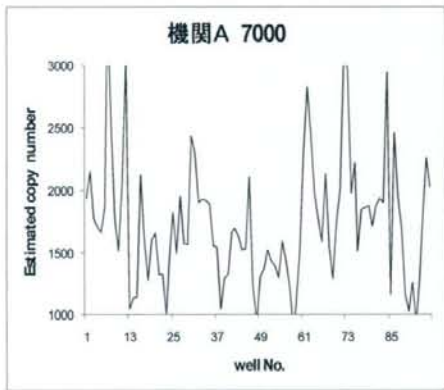


Fig. 5-2 ウェルの位置による
測定値への影響
(ABI PRISM 7000, コピー数)

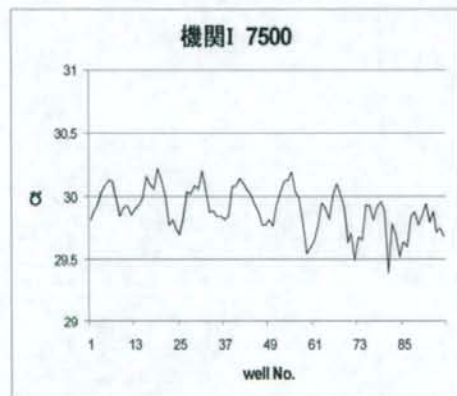
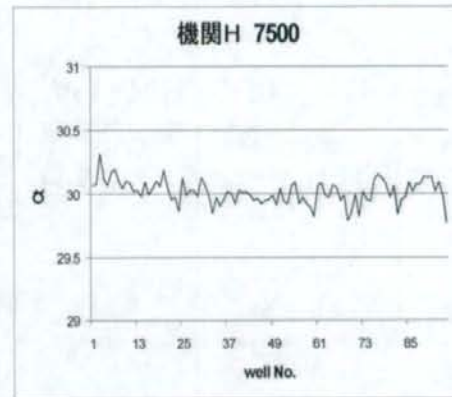
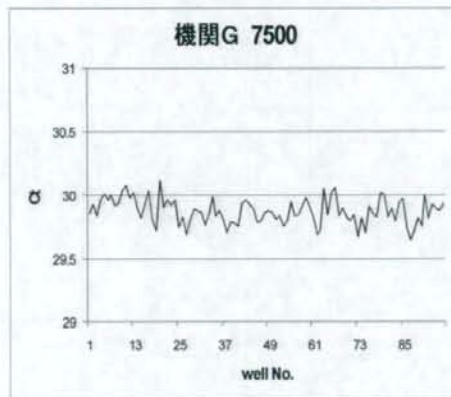
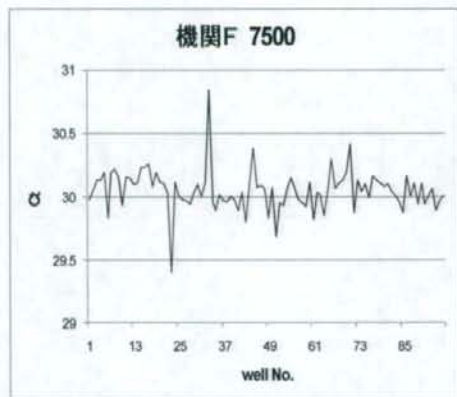


Fig.6-1 ウェルの位置による測定値への影響
(ABI PRISM 7500, α 値)

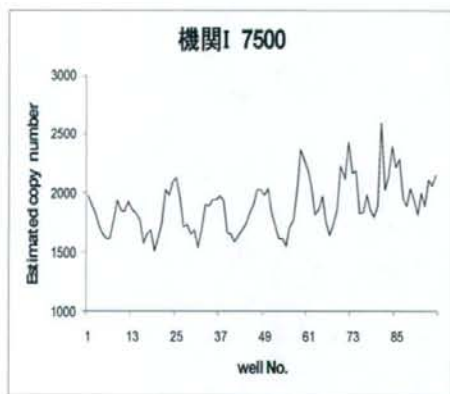
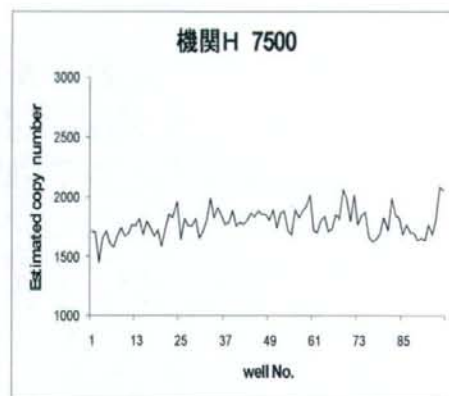
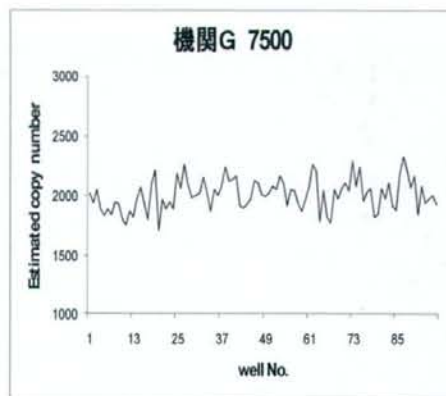
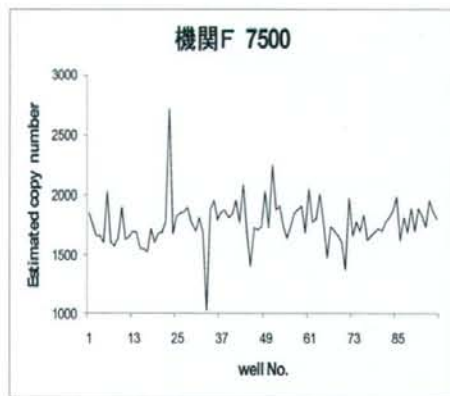


Fig.6-2 ウェルの位置による測定値への影響
(ABI PRISM 7500, コピー数)

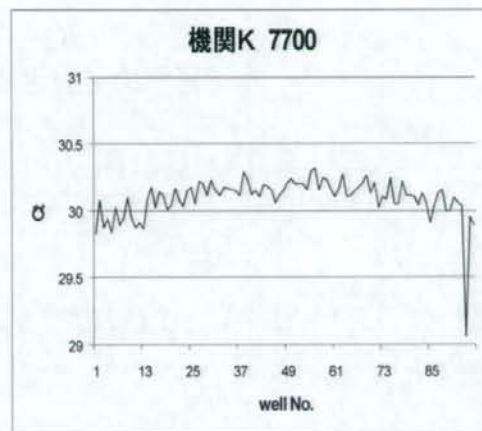
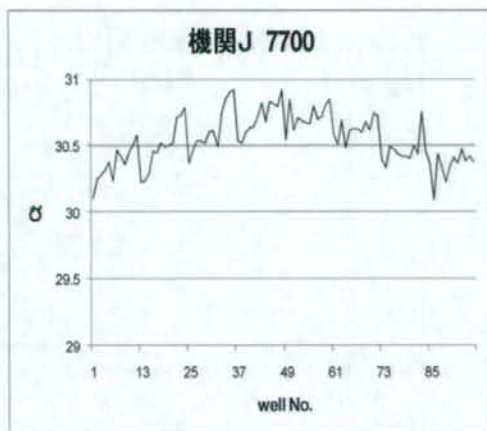


Fig. 7-1 ウェルの位置
による測定値への影響
(ABI PRISM 7700, α 値)

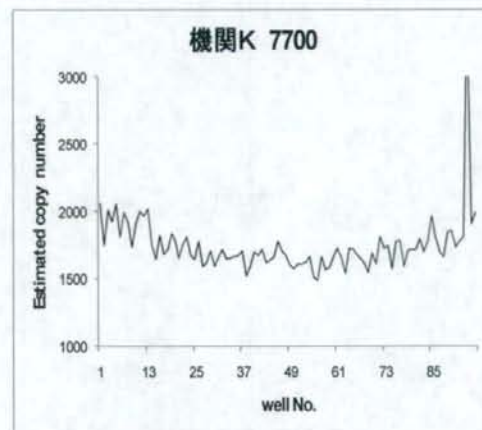
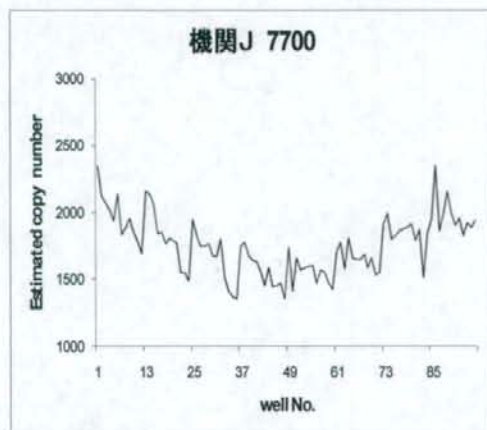


Fig. 7-2 ウェルの位置
による測定値への影響
(ABI PRISM 7700,
コピー数)

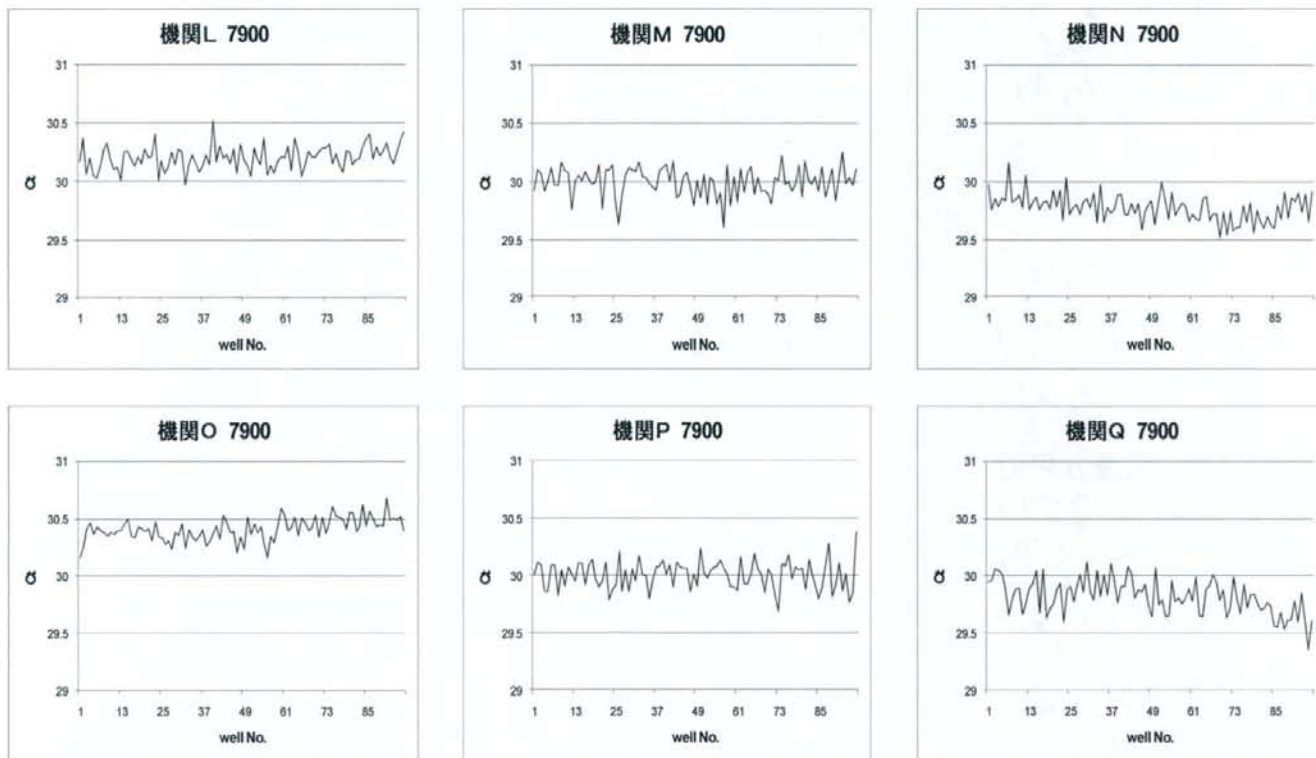


Fig. 8-1a ウェルの位置による測定値への影響
(ABI PRISM 7900 HT, α 値, 機関L~Q)

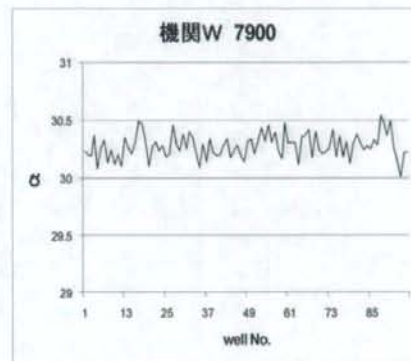
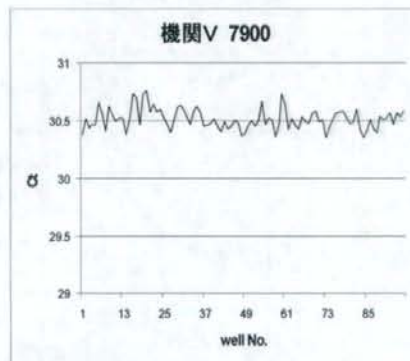
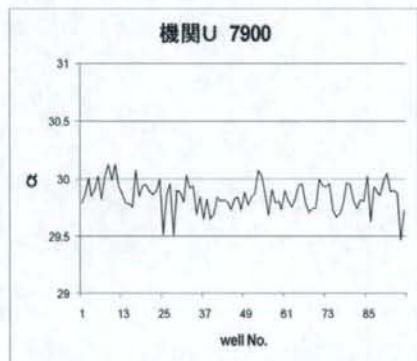
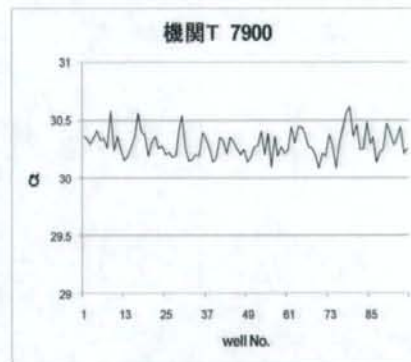
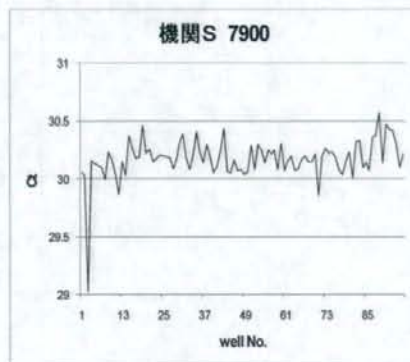
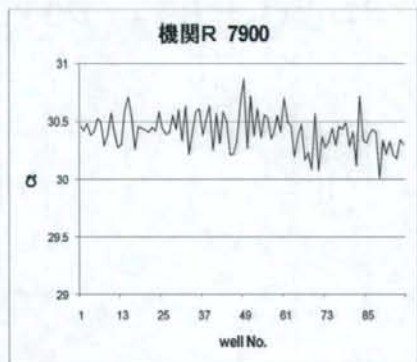


Fig. 8-1b ウェルの位置による測定値への影響
(ABI PRISM 7900 HT, α 値, 機関R~W)

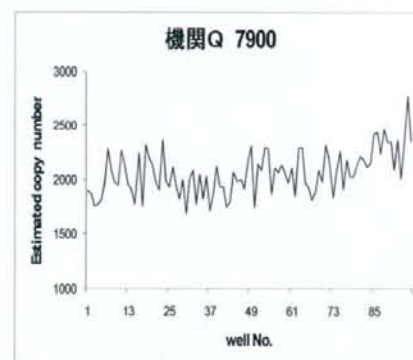
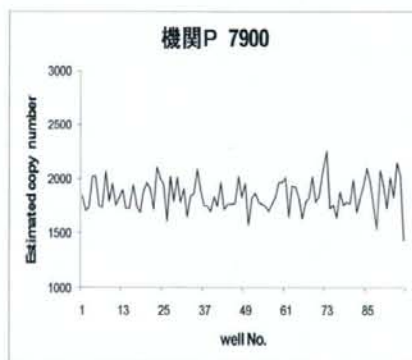
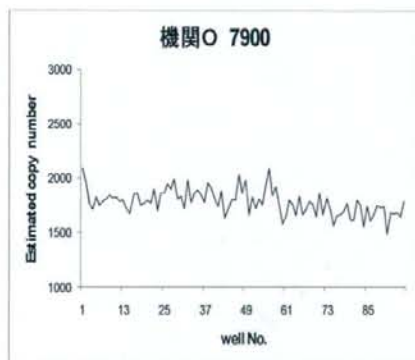
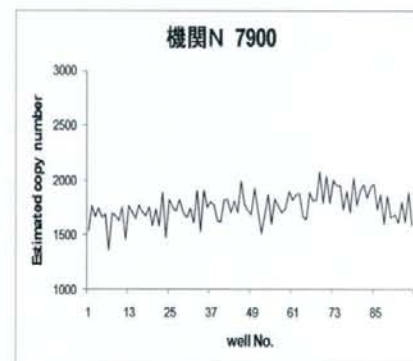
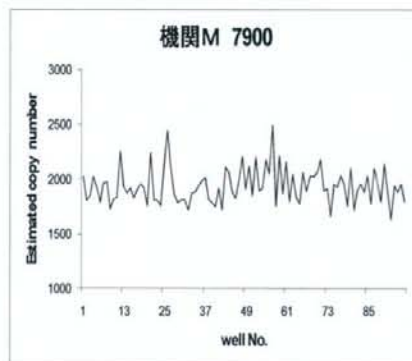
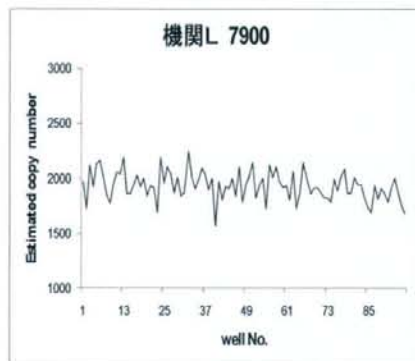


Fig. 8-2a ウェルの位置による測定値への影響
(ABI PRISM 7900 HT, コピー数, 機関L~Q)

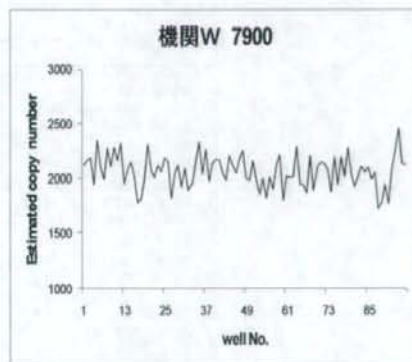
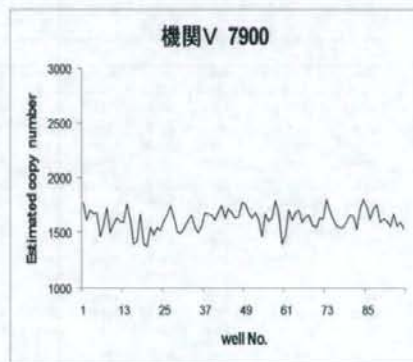
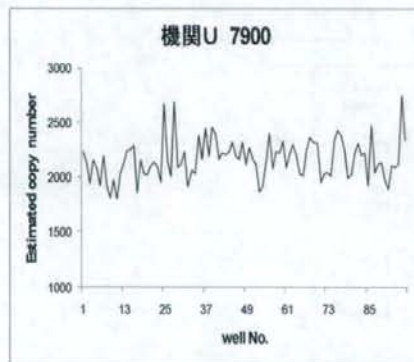
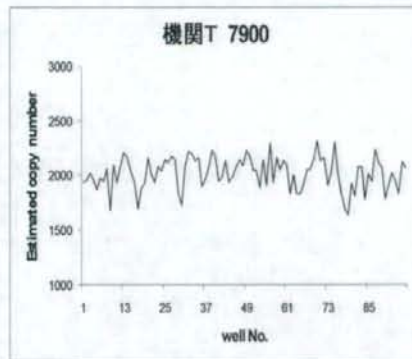
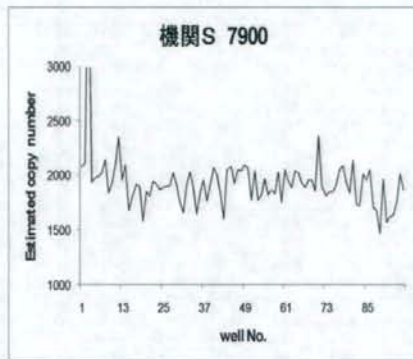
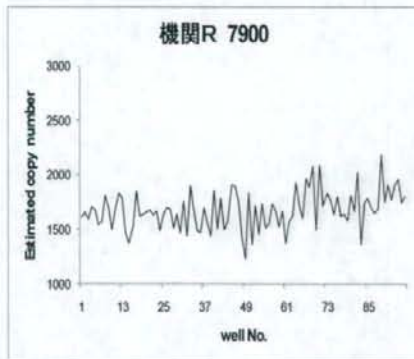


Fig. 8-2b ウェルの位置による測定値への影響
(ABI PRISM 7900 HT, コピー数, 機関R~W)

		ABI PRISM 7000					ABI PRISM 7500				ABI PRISM 7700	
検量線繰り返し番号		機関A	機関B	機関C	機関D	機関E	機関F	機関G	機関H	機関I	機関J	機関K
1	slope	-3.316	-3.428	-3.399	-3.467	-3.624	-3.632	-3.533	-3.569	-3.528	-3.457	-3.490
	intercept	41.222	41.511	42.535	41.913	42.192	42.085	41.621	41.735	41.490	41.621	41.400
	r	-0.998	-0.999	-0.998	-0.998	-0.996	-0.999	-0.999	-0.999	-0.999	-0.999	-0.998
2	slope	-3.807	-3.504	-3.611	-3.474	-3.480	-3.535	-3.662	-3.411	-3.539	-3.396	-3.367
	intercept	42.878	41.792	42.426	41.884	41.917	41.617	42.114	41.025	41.440	41.592	41.013
	r	-0.992	-0.999	-0.998	-1.000	-0.997	-0.999	-0.995	-0.999	-1.000	-0.999	-0.999
3	slope	-3.461	-3.436	-3.590	-3.569	-3.358	-3.565	-3.575	-3.496	-3.432	-3.489	-3.379
	intercept	41.304	41.434	42.430	42.167	41.337	41.742	41.675	41.291	40.988	41.960	41.062
	r	-0.998	-0.999	-0.999	-0.998	-0.999	-0.999	-0.998	-0.999	-0.999	-1.000	-0.998
4	slope	-2.896	-3.458	-3.434	-3.334	-3.516	-3.036	-3.403	-3.573	-3.669	-3.406	-3.345
	intercept	39.059	41.625	41.829	41.096	41.752	39.385	40.877	41.645	41.964	41.515	40.900
	r	-0.930	-0.999	-1.000	-0.996	-0.997	-0.932	-0.999	-0.997	-0.998	-0.999	-0.999
5	slope	-3.448	-3.401	-3.424	-3.508	-3.598	-3.563	-3.485	-3.494	-3.504	-3.513	-3.620
	intercept	41.802	41.489	41.956	42.099	42.320	41.694	41.341	41.381	41.118	41.612	42.005
	r	-0.995	-1.000	-0.999	-0.999	-0.996	-0.998	-0.999	-1.000	-0.999	-0.998	-0.999
all	slope	-3.366	-3.462	-3.571	-3.446	-3.493	-3.435	-3.543	-3.510	-3.532	-3.436	-3.398
	intercept	41.155	41.602	42.334	41.731	41.799	41.192	41.573	41.419	41.448	41.669	41.099
	r	-0.973	-0.999	-0.998	-0.997	-0.996	-0.978	-0.996	-0.998	-0.998	-0.999	-0.998

		ABI PRISM 7900 HT											
検量線繰り返し番号		機関L	機関M	機関N	機関O	機関P	機関Q	機関R	機関S	機関T	機関U	機関V	機関W
1	slope	-3.430	-3.500	-3.448	-3.552	-3.543	-3.502	-3.398	-3.485	-3.448	-3.600	-3.488	-3.399
	intercept	41.497	41.502	40.995	41.925	41.622	41.307	41.290	41.631	41.619	41.973	41.710	41.467
	r	-0.999	-0.999	-0.998	-1.000	-0.998	-0.999	-0.998	-1.000	-0.999	-0.999	-0.999	-0.998
2	slope	-3.561	-3.554	-3.504	-3.588	-3.472	-3.609	-3.485	-3.513	-3.591	-3.540	-3.359	-3.484
	intercept	41.903	41.707	41.199	42.112	41.305	41.883	41.674	41.737	42.300	41.743	41.248	41.766
	r	-0.998	-1.000	-1.000	-0.997	-0.999	-0.999	-0.999	-1.000	-0.999	-0.995	-0.999	-0.999
3	slope	-3.478	-3.491	-3.433	-3.491	-3.495	-3.468	-3.473	-3.510	-3.458	-3.607	-3.424	-3.516
	intercept	41.609	41.452	40.823	41.715	41.368	41.264	41.596	41.661	41.598	41.803	41.465	42.081
	r	-0.999	-0.999	-0.999	-0.999	-0.999	-0.996	-0.999	-0.997	-0.999	-0.998	-0.999	-0.999
4	slope	-3.436	-3.445	-3.450	-3.559	-3.529	-3.581	-3.512	-3.478	-3.682	-3.461	-3.473	-3.408
	intercept	41.507	41.286	40.922	41.976	41.509	41.622	41.692	41.554	42.458	41.229	41.730	41.520
	r	-1.000	-0.998	-1.000	-0.997	-0.999	-0.999	-0.999	-0.999	-0.997	-0.999	-0.999	-0.999
5	slope	-3.554	-3.586	-3.502	-3.451	-3.620	-3.496	-3.610	-3.433	-3.470	-3.484	-3.507	-3.439
	intercept	42.035	41.726	41.123	41.605	41.892	41.273	42.062	41.444	41.712	41.303	41.880	41.700
	r	-0.999	-0.995	-0.999	-0.999	-0.999	-0.996	-0.999	-0.998	-1.000	-0.997	-0.999	-0.999
all	slope	-3.482	-3.498	-3.456	-3.550	-3.503	-3.530	-3.455	-3.496	-3.536	-3.553	-3.440	-3.455
	intercept	41.641	41.488	40.979	41.937	41.435	41.509	41.538	41.644	41.976	41.689	41.546	41.718
	r	-0.999	-0.999	-0.999	-0.998	-0.999	-0.998	-0.998	-0.999	-0.998	-0.997	-0.999	-0.998

Table 1-1 検量線の基本パラメータ(5点検量線)

		ABI PRISM 7000					ABI PRISM 7500				ABI PRISM 7700	
検量線繰り返し番号		検量A	検量B	検量C	検量D	検量E	検量F	検量G	検量H	検量I	検量J	検量K
		1	slope	-3.334	-3.507	-3.527	-3.452	-3.502	-3.593	-3.529	-3.568	-3.483
	intercept	41.302	41.859	42.223	41.849	41.659	41.915	41.606	41.733	41.294	41.498	40.968
	r	-0.998	-0.998	-1.000	-0.999	-0.997	-1.000	-1.000	-1.000	-0.999	-1.000	-0.999
2	slope	-3.484	-3.460	-3.505	-3.517	-3.520	-3.482	-3.456	-3.526	-3.524	-3.429	-3.404
	intercept	41.471	41.598	41.967	42.071	42.091	41.385	41.216	41.530	41.374	41.699	41.174
	r	-0.999	-1.000	-0.999	-1.000	-0.997	-1.000	-1.000	-1.000	-0.999	-1.000	-1.000
3	slope	-3.378	-3.422	-3.441	-3.480	-3.382	-3.543	-3.512	-3.438	-3.474	-3.483	-3.357
	intercept	41.146	41.373	41.780	41.778	41.356	41.645	41.401	41.037	41.173	41.933	40.965
	r	-0.998	-1.000	-0.999	-0.999	-0.998	-1.000	-1.000	-1.000	-0.999	-1.000	-1.000
4	slope	-3.299	-3.414	-3.428	-3.541	-3.371	-3.514	-3.429	-3.494	-3.582	-3.436	-3.404
	intercept	40.817	41.433	41.802	42.000	41.118	41.472	40.991	41.298	41.826	41.643	41.158
	r	-0.997	-1.000	-1.000	-0.999	-0.999	-1.000	-1.000	-1.000	-1.000	-1.000	-0.999
5	slope	-3.304	-3.427	-3.397	-3.444	-3.428	-3.520	-3.514	-3.482	-3.442	-3.473	-3.472
	intercept	41.173	41.602	41.638	41.820	41.578	41.505	41.470	41.328	40.847	41.634	41.359
	r	-0.998	-1.000	-1.000	-0.999	-0.998	-1.000	-1.000	-1.000	-1.000	-1.000	-1.000
all	slope	-3.368	-3.458	-3.486	-3.479	-3.433	-3.531	-3.477	-3.503	-3.502	-3.441	-3.392
	intercept	41.165	41.584	41.973	41.875	41.544	41.600	41.292	41.389	41.321	41.690	41.073
	r	-0.997	-0.999	-0.999	-0.999	-0.998	-1.000	-0.999	-0.999	-0.999	-0.999	-0.999

		ABI PRISM 7900 HT											
検量線繰り返し番号		検量L	検量M	検量N	検量O	検量P	検量Q	検量R	検量S	検量T	検量U	検量V	検量W
		1	slope	-3.518	-3.589	-3.575	-3.532	-3.583	-3.557	-3.583	-3.478	-3.538	-3.568
	intercept	41.880	41.890	41.550	41.838	41.794	41.547	42.014	41.598	42.010	41.833	41.776	41.658
	r	-1.000	-1.000	-0.999	-1.000	-1.000	-0.999	-0.999	-1.000	-0.999	-1.000	-1.000	-0.999
2	slope	-3.466	-3.538	-3.528	-3.431	-3.529	-3.636	-3.517	-3.489	-3.496	-3.374	-3.451	-3.456
	intercept	41.486	41.637	41.305	41.428	41.551	42.001	41.817	41.634	41.887	41.019	41.650	41.646
	r	-0.999	-1.000	-1.000	-1.000	-1.000	-0.999	-0.999	-1.000	-1.000	-0.997	-1.000	-0.999
3	slope	-3.482	-3.551	-3.558	-3.501	-3.507	-3.713	-3.473	-3.465	-3.431	-3.400	-3.470	-3.481
	intercept	41.627	41.714	41.388	41.780	41.418	42.333	41.596	41.462	41.482	40.900	41.669	41.925
	r	-1.000	-0.999	-1.000	-1.000	-1.000	-1.000	-0.999	-0.999	-1.000	-1.000	-1.000	-0.999
4	slope	-3.466	-3.547	-3.487	-3.487	-3.544	-3.585	-3.530	-3.418	-3.534	-3.470	-3.499	-3.463
	intercept	41.638	41.732	41.084	41.662	41.575	41.723	41.769	41.292	41.811	41.268	41.846	41.761
	r	-0.999	-0.998	-1.000	-1.000	-0.999	-1.000	-1.000	-1.000	-1.000	-0.999	-1.000	-0.999
5	slope	-3.486	-3.511	-3.558	-3.486	-3.532	-3.655	-3.547	-3.514	-3.472	-3.469	-3.483	-3.395
	intercept	41.782	41.482	41.365	41.767	41.507	41.968	41.789	41.796	41.718	41.238	41.776	41.508
	r	-1.000	-1.000	-1.000	-0.999	-1.000	-0.998	-1.000	-0.998	-1.000	-0.999	-0.999	-0.999
all	slope	-3.491	-3.562	-3.540	-3.486	-3.533	-3.624	-3.509	-3.458	-3.485	-3.446	-3.490	-3.467
	intercept	41.680	41.758	41.337	41.667	41.563	41.905	41.768	41.484	41.756	41.234	41.760	41.770
	r	-0.999	-0.999	-1.000	-1.000	-1.000	-0.999	-0.999	-0.999	-0.999	-0.998	-1.000	-0.999

Table 1-2 検量線の基本パラメータ(4点検量線)

real-time PCR 機器	機関	平均値	SD	RSD	最小値	最大値	最大値と最小 値の差
ABI PRISM 7000	A	1732.92	511.48	29.5	859.30	3459.56	2600.26
	B	1850.69	175.95	9.5	1491.74	2383.42	891.68
	C	2122.72	219.30	10.3	1701.56	2658.78	957.21
	D	2191.14	392.02	17.9	1499.41	3571.07	2071.66
	E	1624.71	371.76	22.9	849.57	2985.53	2135.96
	総合	1907.36	422.20	22.1	849.57	3571.07	2721.50
	F	1761.19	144.43	8.2	1374.95	2239.08	864.13
	G	2007.53	132.03	6.6	1703.64	2324.36	620.72
	H	1782.24	114.38	6.4	1453.90	2078.20	624.30
	I	1887.41	218.52	11.6	1510.05	2587.06	1077.01
	総合	1860.11	184.69	9.9	1374.95	2587.06	1212.11
ABI PRISM 7700	J	1745.17	218.37	12.5	1344.55	2335.58	991.03
	K	1720.86	130.19	7.57	1484.19	2062.77	578.58
	総合				1344.55	2335.58	991.03
ABI PRISM 7900 HT	L	1928.16	128.96	6.7	1566.26	2243.52	677.26
	M	1932.94	160.38	8.3	1626.74	2490.46	863.72
	N	1752.15	134.63	7.7	1354.83	2073.98	719.15
	O	1773.54	114.37	6.4	1479.87	2086.23	606.36
	P	1839.42	145.33	7.9	1428.63	2242.24	813.60
	Q	2056.55	203.54	9.9	1682.83	2772.64	1089.80
	R	1671.15	174.14	10.4	1228.93	2181.64	952.71
	S	1903.48	155.80	8.2	1468.44	2361.29	892.84
	T	2012.71	146.29	7.3	1631.59	2306.74	675.15
	U	2158.21	180.91	8.4	1803.85	2751.01	947.16
	V	1613.17	95.34	5.9	1367.20	1800.15	432.95
	W	2057.77	144.21	7.0	1720.73	2452.94	732.21
	総合	1891.59	219.58	11.6	1228.93	2772.64	1543.71

Table2 全ウェル多重測定結果のまとめ

(機関Dの24番ウェル、機関Fの23並びに33番ウェル、機関Kの94番ウェル、機関Sの3番ウェルを除き集計)

別紙資料 1

Real-time PCR 法に含まれる不確かさの推定を目的とした共同試験
プロトコル

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