

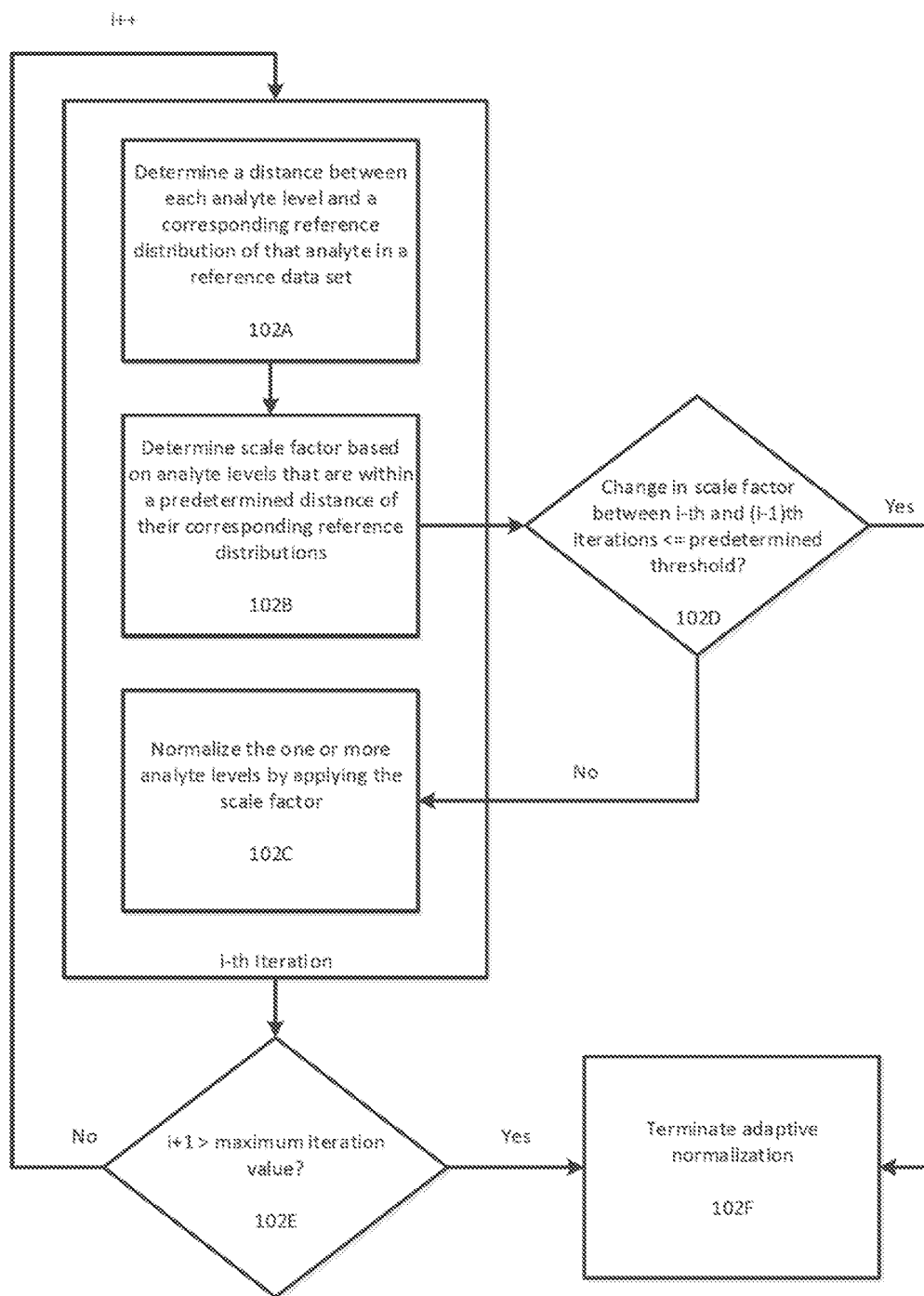


Fig. 1

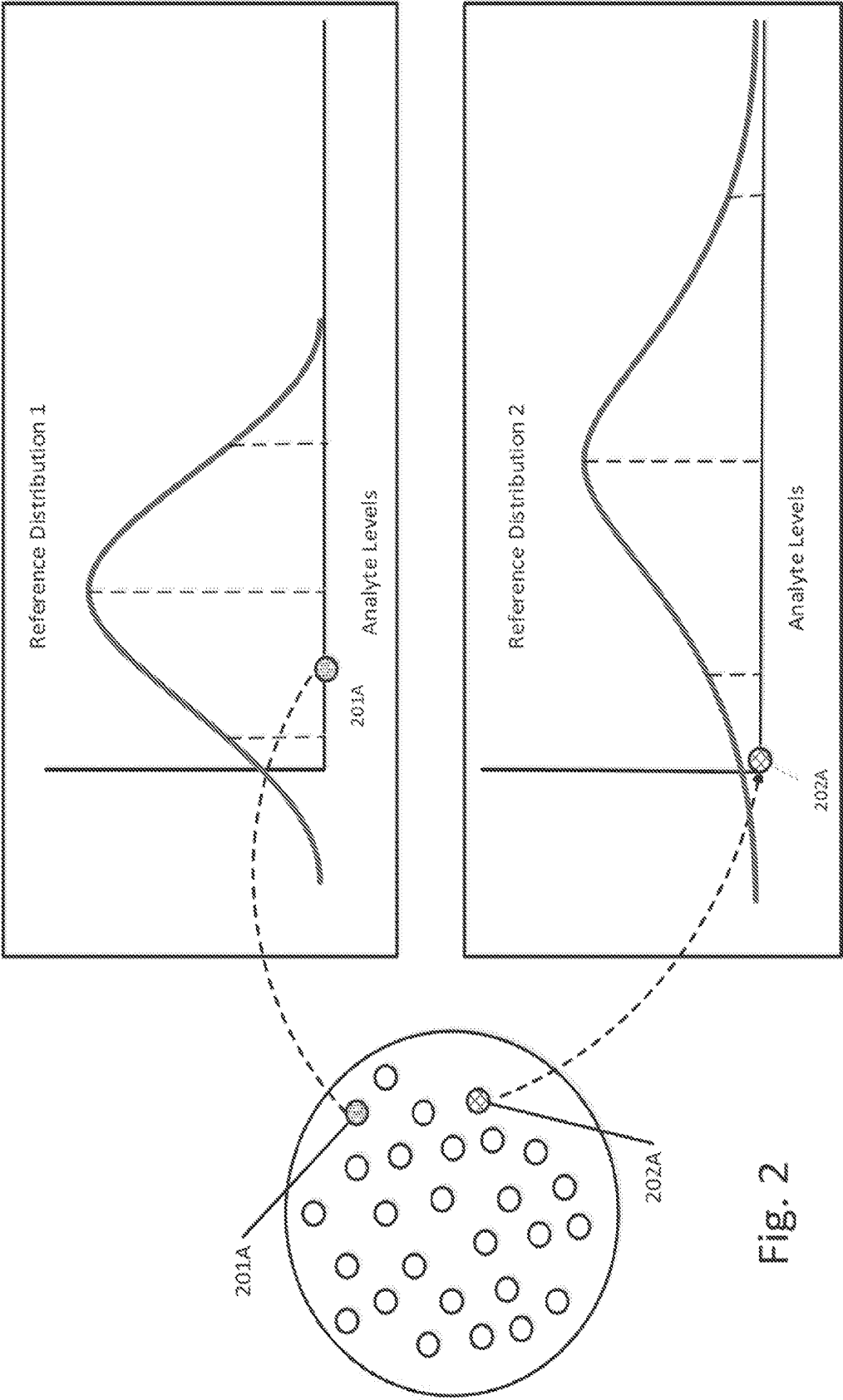


Fig. 2

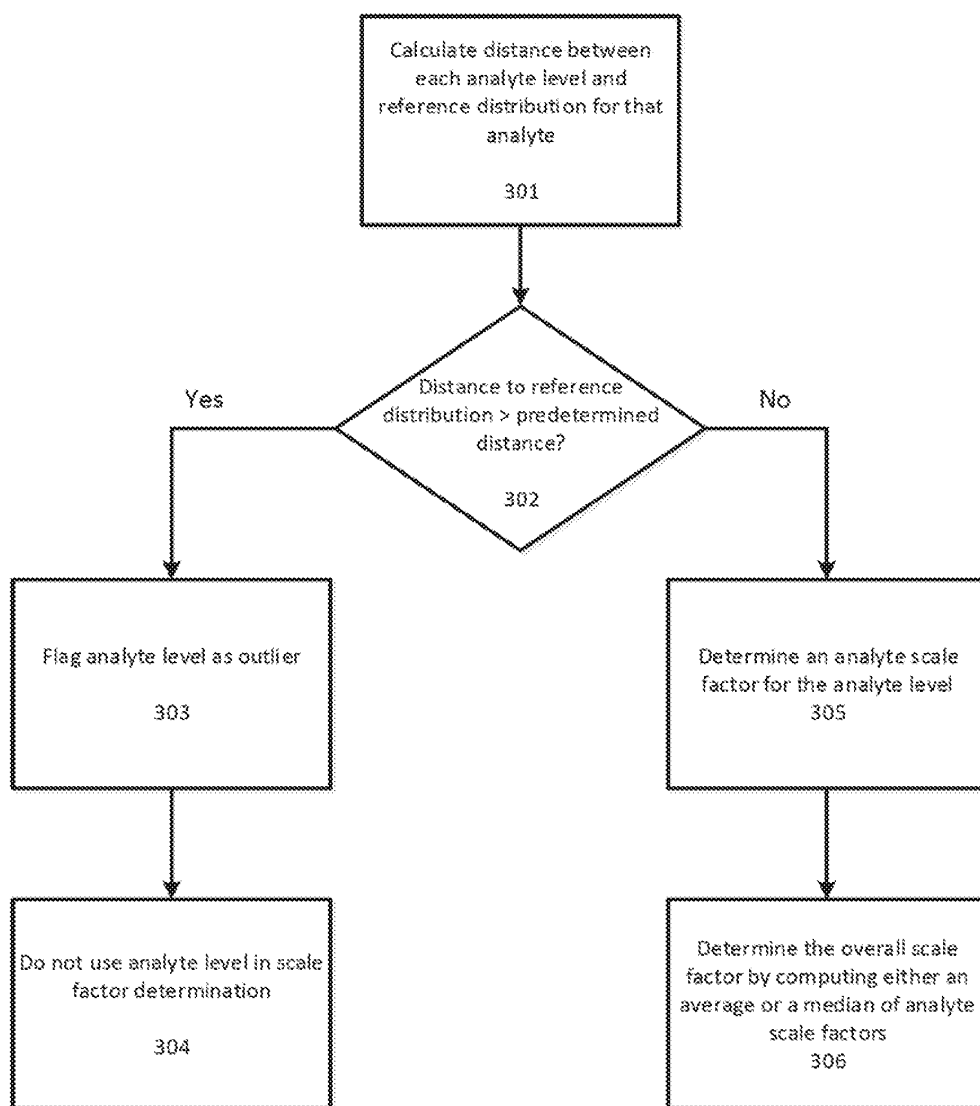


Fig. 3

Analyte	Reference Median	Log ₁₀ Reference Median	Reference MAD
Analyte 1	985.182	2.994	0.087
Analyte 2	1210.897	3.083	0.104
Analyte 3	1062.831	3.026	0.120
Analyte 4	515.744	2.712	0.029
Analyte 5	1049.320	3.021	0.060
Analyte 6	1193.759	3.077	0.079
Analyte 7	1163.684	3.066	0.079
Analyte 8	836.534	2.922	0.116
Analyte 9	860.597	2.935	0.097
Analyte 10	617.929	2.791	0.102
Analyte 11	973.447	2.988	0.130
Analyte 12	621.541	2.793	0.095
Analyte 13	1536.644	3.187	0.115
Analyte 14	1312.597	3.118	0.112
Analyte 15	796.113	2.901	0.125
Analyte 16	1132.637	3.054	0.068
Analyte 17	1043.372	3.018	0.021
Analyte 18	941.175	2.974	0.081
Analyte 19	640.434	2.806	0.085
Analyte 20	1179.185	3.072	0.090
Analyte 21	1488.402	3.173	0.079
Analyte 22	1166.864	3.067	0.077
Analyte 23	1131.043	3.053	0.041
Analyte 24	856.276	2.933	0.094
Analyte 25	749.236	2.875	0.132

Fig. 4A

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Analyte 1	561.759	681.315	874.867	366.169	109.820	1374.665	1068.456	1621.239	658.079	620.293
Analyte 2	1406.825	1529.559	1730.032	1253.036	20.697	1715.267	2334.629	237.268	566.798	2019.541
Analyte 3	1237.598	199.880	1044.210	1235.317	1598.975	1300.360	660.483	1330.370	1189.860	493.399
Analyte 4	585.389	180.927	275.293	252.897	328.971	350.228	391.640	406.515	745.314	666.231
Analyte 5	1496.378	1423.474	959.858	1001.921	1598.727	1012.927	1701.391	1729.705	958.184	1804.205
Analyte 6	2257.484	195.461	470.250	380.839	1391.018	1596.175	1468.843	292.885	1598.545	1287.119
Analyte 7	1034.256	380.066	642.039	1513.092	2424.319	746.244	505.474	1083.642	984.909	1150.692
Analyte 8	852.321	323.062	1170.890	1449.875	490.256	1603.400	1222.625	1197.033	1021.529	1015.791
Analyte 9	1397.142	64.120	995.012	634.377	693.722	706.109	886.186	1036.948	259.193	1517.352
Analyte 10	291.370	1078.180	747.322	390.595	320.112	503.897	639.696	479.736	830.724	850.203
Analyte 11	1131.121	1645.482	79.322	1563.551	649.934	1453.924	1006.690	258.612	889.329	1623.049
Analyte 12	697.180	752.025	678.293	202.894	948.920	353.050	243.850	690.785	632.380	115.651
Analyte 13	1625.698	1537.568	1755.556	1410.433	998.183	1824.377	1175.607	1486.353	845.463	3111.889
Analyte 14	779.560	2461.372	1252.742	1579.137	1445.981	1507.468	443.043	277.401	1089.290	469.804
Analyte 15	881.071	726.901	1320.375	725.044	933.893	1240.744	1367.014	1085.300	1069.650	297.250
Analyte 16	929.356	940.994	1244.893	1040.272	1185.888	1685.066	545.875	754.703	237.797	959.783
Analyte 17	945.939	1796.231	1303.210	604.350	502.929	790.833	786.350	578.181	735.028	984.811
Analyte 18	1065.001	1458.807	243.995	1135.492	882.679	1331.843	1467.089	628.565	12.581	173.579
Analyte 19	718.132	745.508	614.444	337.598	694.658	704.040	856.177	754.368	540.818	493.443
Analyte 20	2086.337	860.567	180.711	1534.817	1671.231	1934.620	863.241	1578.378	921.059	1330.419
Analyte 21	2154.474	2514.404	1181.451	567.102	1967.301	1997.736	465.937	1911.105	1850.081	521.151
Analyte 22	347.720	901.437	1116.230	1914.269	1371.650	782.396	724.955	1126.703	361.665	640.050
Analyte 23	1670.340	166.548	275.708	1879.698	1428.166	2074.385	1241.174	1536.890	968.489	391.572
Analyte 24	1066.674	992.703	851.611	1568.185	276.266	194.235	1382.733	676.072	1042.275	490.808
Analyte 25	355.192	1239.231	801.852	115.966	816.828	701.647	193.289	1022.900	380.284	1109.187

Fig. 4B

Analyte	Sample 3	Log10 Sample 3	Reference Median	Log10 Reference Median	Reference MAD	M-dist.	Within-Cutoff
Analyte 1	874.867	2.942	985.182	2.994	0.087	-0.596	TRUE
Analyte 2	1730.032	3.238	1210.897	3.083	0.104	1.495	TRUE
Analyte 3	1044.210	3.019	1062.831	3.026	0.120	-0.064	TRUE
Analyte 4	275.393	2.440	515.744	2.712	0.029	-9.538	FALSE
Analyte 5	939.858	2.982	1049.120	3.021	0.060	-0.644	TRUE
Analyte 6	470.250	2.673	1193.759	3.077	0.079	-5.135	FALSE
Analyte 7	642.039	2.808	1163.694	3.066	0.079	-3.251	FALSE
Analyte 8	1170.890	3.069	836.534	2.922	0.116	1.260	TRUE
Analyte 9	995.012	2.998	860.597	2.935	0.097	0.649	TRUE
Analyte 10	747.322	2.874	617.929	2.791	0.102	0.808	TRUE
Analyte 11	79.322	1.899	973.447	2.988	0.130	-8.352	FALSE
Analyte 12	678.293	2.831	621.541	2.793	0.095	0.398	TRUE
Analyte 13	1755.556	3.244	1536.644	3.187	0.115	0.505	TRUE
Analyte 14	1252.742	3.098	1312.597	3.118	0.112	-0.181	TRUE
Analyte 15	1320.375	3.121	796.113	2.901	0.125	1.752	TRUE
Analyte 16	1244.983	3.095	1132.637	3.054	0.068	0.607	TRUE
Analyte 17	1303.210	3.115	1043.372	3.018	0.021	4.578	FALSE
Analyte 18	243.995	2.387	941.175	2.974	0.081	-7.224	FALSE
Analyte 19	614.444	2.788	640.434	2.806	0.085	-0.213	TRUE
Analyte 20	180.711	2.257	1179.185	3.072	0.090	-9.065	FALSE
Analyte 21	1181.451	3.072	1488.402	3.173	0.079	-1.267	TRUE
Analyte 22	1116.220	3.048	1166.864	3.067	0.077	-0.251	TRUE
Analyte 23	275.788	2.440	1131.843	3.053	0.041	-15.079	FALSE
Analyte 24	851.811	2.930	856.276	2.933	0.094	-0.024	TRUE
Analyte 25	801.852	2.904	749.236	2.875	0.132	0.224	TRUE

Fig. 4C

Analyte	Sample 3	Reference Median	Scale Factor
Analyte 1	874.867	985.182	1.126
Analyte 2	1730.032	1210.897	0.700
Analyte 3	1044.210	1062.831	1.018
Analyte 5	959.858	1049.320	1.093
Analyte 8	1170.890	836.534	0.714
Analyte 9	995.012	860.597	0.865
Analyte 10	747.322	617.929	0.827
Analyte 12	678.293	621.541	0.916
Analyte 13	1755.556	1536.644	0.875
Analyte 14	1252.742	1312.597	1.048
Analyte 15	1320.375	796.113	0.603
Analyte 16	1244.983	1132.637	0.910
Analyte 19	614.444	640.434	1.042
Analyte 21	1181.451	1488.402	1.260
Analyte 22	1116.220	1166.864	1.045
Analyte 24	851.811	856.276	1.005
Analyte 25	801.852	749.236	0.934

Fig. 4D

Analyte	Sample 3	Loge Sample 3	Reference Median	Log10 Reference Median	Reference MAD	M-dist.	Within-Cutoff
Analyte 1	817.461	2.942	985.182	2.994	0.087	-0.937	TRUE
Analyte 2	1616.511	3.238	1210.697	3.083	0.104	1.211	TRUE
Analyte 3	975.691	3.019	1062.831	3.026	0.120	-0.310	TRUE
Analyte 4	257.229	2.440	515.744	2.712	0.029	-10.569	FALSE
Analyte 5	896.874	2.982	1049.320	3.021	0.060	-1.135	TRUE
Analyte 6	439.393	2.672	1193.759	3.077	0.079	-5.509	FALSE
Analyte 7	599.909	2.808	1163.684	3.066	0.079	-3.622	FALSE
Analyte 8	1094.059	3.069	836.534	2.922	0.116	1.006	TRUE
Analyte 9	929.722	2.998	860.597	2.935	0.097	0.346	TRUE
Analyte 10	690.284	2.874	617.929	2.791	0.102	0.519	TRUE
Analyte 11	741.117	1.899	973.447	2.988	0.130	-8.578	FALSE
Analyte 12	633.785	2.831	621.541	2.793	0.095	0.089	TRUE
Analyte 13	1640.360	3.244	1536.644	3.187	0.115	0.247	TRUE
Analyte 14	1170.540	3.098	1312.597	3.118	0.112	-0.444	TRUE
Analyte 15	1233.735	3.121	796.113	2.901	0.125	1.517	TRUE
Analyte 16	1163.289	3.095	1132.637	3.054	0.088	0.171	TRUE
Analyte 17	1217.696	3.115	1043.372	3.018	0.071	3.175	FALSE
Analyte 18	227.984	2.387	941.175	2.974	0.081	-7.587	FALSE
Analyte 19	574.125	2.788	640.434	2.806	0.085	-0.561	TRUE
Analyte 20	168.853	2.257	1179.185	3.072	0.090	-9.393	FALSE
Analyte 21	1103.927	3.072	1488.402	3.173	0.079	-1.639	TRUE
Analyte 22	1042.976	3.048	1166.864	3.067	0.077	-0.636	TRUE
Analyte 23	257.617	2.440	1131.043	3.053	0.041	-15.804	FALSE
Analyte 24	795.917	2.930	856.276	2.933	0.094	-0.336	TRUE
Analyte 25	749.236	2.904	749.236	2.875	0.133	0.000	TRUE

Fig. 4E

	Analyte	Sample 3	Reference Median	Scale Factor
1	Analyte 1	817.461	985.182	1.205
2	Analyte 2	1616.511	1210.897	0.749
3	Analyte 3	975.691	1062.831	1.089
5	Analyte 5	896.874	1049.320	1.170
8	Analyte 8	1094.059	836.534	0.765
9	Analyte 9	929.722	860.597	0.926
10	Analyte 10	698.284	617.929	0.885
12	Analyte 12	633.785	621.541	0.981
13	Analyte 13	1640.360	1536.644	0.937
14	Analyte 14	1170.540	1312.597	1.121
15	Analyte 15	1233.735	796.113	0.645
16	Analyte 16	1163.289	1132.637	0.974
19	Analyte 19	574.125	640.434	1.115
21	Analyte 21	1103.927	1488.402	1.348
22	Analyte 22	1042.976	1166.864	1.119
24	Analyte 24	795.917	856.276	1.076
25	Analyte 25	749.236	749.236	1.000

Fig. 4F

Analyte	Sample 4	Logis Sample 4	Reference Median	Logis Reference Median	Reference MAD	M-dist	Within-Cutoff
Analyte 1	366.169	2.564	985.182	2.994	0.087	-4.968	FALSE
Analyte 2	1253.036	3.098	1210.897	3.083	0.104	0.143	TRUE
Analyte 3	1235.317	3.092	1062.831	3.026	0.120	0.545	TRUE
Analyte 4	252.897	2.403	515.744	2.712	0.029	-10.827	FALSE
Analyte 5	1001.921	3.001	1049.320	3.021	0.060	-0.334	TRUE
Analyte 6	380.839	2.581	1192.739	3.077	0.079	-6.297	FALSE
Analyte 7	1513.092	3.180	1163.684	3.066	0.079	1.435	TRUE
Analyte 8	1449.875	3.161	836.534	2.922	0.116	2.061	FALSE
Analyte 9	834.377	2.802	880.597	2.935	0.097	-1.365	TRUE
Analyte 10	390.595	2.592	617.929	2.791	0.102	-1.949	TRUE
Analyte 11	1563.551	3.194	973.447	2.988	0.130	1.578	TRUE
Analyte 12	202.894	2.307	621.541	2.793	0.095	-5.105	FALSE
Analyte 13	1410.433	3.140	1536.644	3.187	0.115	-0.325	TRUE
Analyte 14	1879.137	3.198	1312.597	3.118	0.112	0.716	TRUE
Analyte 15	725.044	2.860	796.113	2.901	0.125	-0.324	TRUE
Analyte 16	1040.272	3.017	1132.637	3.054	0.068	-0.546	TRUE
Analyte 17	604.350	2.781	1043.372	3.018	0.021	-11.222	FALSE
Analyte 18	1135.492	3.055	941.175	2.974	0.081	1.004	TRUE
Analyte 19	337.598	2.528	640.434	2.806	0.085	-3.289	FALSE
Analyte 20	1534.817	3.186	1179.185	3.072	0.090	1.274	TRUE
Analyte 21	587.102	2.754	1488.402	3.173	0.079	-5.292	FALSE
Analyte 22	1914.269	3.282	1164.864	3.067	0.077	2.804	FALSE
Analyte 23	1879.698	3.274	1131.043	3.053	0.041	5.427	FALSE
Analyte 24	1568.185	3.195	856.276	2.933	0.094	2.784	FALSE
Analyte 25	115.966	2.064	749.236	2.975	0.132	-6.150	FALSE

Fig. 5A

	Analyte	Sample 4	Reference Median	Scale Factor
2	Analyte 2	1253.036	1210.897	0.966
3	Analyte 3	1235.317	1062.831	0.860
5	Analyte 5	1001.921	1049.320	1.047
7	Analyte 7	1513.092	1163.684	0.769
9	Analyte 9	634.377	860.597	1.357
10	Analyte 10	390.595	617.929	1.582
11	Analyte 11	1563.551	973.447	0.623
13	Analyte 13	1410.433	1536.644	1.089
14	Analyte 14	1579.137	1312.597	0.831
15	Analyte 15	725.044	796.113	1.098
16	Analyte 16	1040.272	1132.637	1.089
18	Analyte 18	1135.492	941.175	0.829
20	Analyte 20	1534.817	1179.185	0.768

Fig. 5B

Analyte	Sample 4	Logis Sample 4	Reference Median	Logis Reference Median	Reference MAD	M-dist.	Within-Cutoff
Analyte 1	353.855	2.564	985.182	2.994	0.007	-5.139	FALSE
Analyte 2	1210.897	3.098	1210.897	3.093	0.104	0.000	TRUE
Analyte 3	1193.774	3.092	1061.831	3.026	0.120	0.421	TRUE
Analyte 4	244.392	2.403	515.744	2.712	0.029	-11.347	FALSE
Analyte 5	968.227	3.001	1049.320	3.021	0.060	-0.581	TRUE
Analyte 6	368.032	2.581	1193.759	3.077	0.079	-6.485	FALSE
Analyte 7	1462.207	3.180	1163.684	3.066	0.079	1.248	TRUE
Analyte 8	1401.117	3.161	836.534	2.922	0.116	1.933	TRUE
Analyte 9	613.043	2.802	880.597	2.935	0.097	-1.518	TRUE
Analyte 10	377.459	2.592	617.929	2.791	0.102	-2.094	FALSE
Analyte 11	1510.969	3.194	973.447	2.988	0.130	1.465	TRUE
Analyte 12	196.071	2.307	621.541	2.793	0.095	-5.261	FALSE
Analyte 13	1363.000	3.149	1536.644	3.187	0.115	-0.434	TRUE
Analyte 14	1526.032	3.198	1312.597	3.118	0.112	0.584	TRUE
Analyte 15	700.661	2.860	796.113	2.901	0.125	-0.442	TRUE
Analyte 16	1005.288	3.017	1132.637	3.054	0.068	-0.766	TRUE
Analyte 17	584.026	2.781	1043.372	3.018	0.021	-11.925	FALSE
Analyte 18	1097.306	3.055	941.175	2.974	0.081	0.821	TRUE
Analyte 19	326.245	2.528	640.434	2.906	0.085	-3.465	FALSE
Analyte 20	1483.202	3.186	1179.185	3.072	0.090	1.109	TRUE
Analyte 21	548.030	2.754	1488.402	3.173	0.079	-5.480	FALSE
Analyte 22	1849.893	3.282	1166.864	3.067	0.077	2.610	FALSE
Analyte 23	1816.485	3.274	1131.043	3.053	0.041	5.061	FALSE
Analyte 24	1515.448	3.195	856.276	2.933	0.094	2.626	FALSE
Analyte 25	112.066	2.064	749.236	2.875	0.132	-6.263	FALSE

Fig. 5C

	Analyte	Sample 4	Reference Median	Scale Factor
2	Analyte 2	1210.897	1210.897	1.000
3	Analyte 3	1193.774	1062.831	0.890
5	Analyte 5	968.227	1049.320	1.084
7	Analyte 7	1462.207	1163.684	0.796
8	Analyte 8	1401.117	836.534	0.597
9	Analyte 9	613.043	860.597	1.404
11	Analyte 11	1510.969	973.447	0.644
13	Analyte 13	1363.000	1536.644	1.127
14	Analyte 14	1526.032	1312.597	0.860
15	Analyte 15	700.661	796.113	1.136
16	Analyte 16	1005.288	1132.637	1.127
18	Analyte 18	1097.306	941.175	0.858
20	Analyte 20	1483.202	1179.185	0.795

Fig. 5D

Iteration	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
1	0.892	0.931	0.934	0.966	0.908	0.817	0.944	0.839	0.933	0.907
2	0.988	0.923	1.000	0.990	0.942	0.913	0.977	0.970	1.000	0.943
3	1.000	0.890	1.000	0.966	1.000	0.960	0.988	0.981	1.000	0.878
4	1.000	0.964	1.000	0.999	1.000	1.000	1.000	0.975	1.000	0.934
5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.963
6	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.944
7	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.941
8	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Fig. 5E

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Analyte 1	518.643	634.294	817.461	353.855	99.690	1123.584	1008.640	1360.949	617.311	562.541
Analyte 2	1254.195	1423.997	1616.511	1210.897	18.788	1401.958	2203.929	199.175	531.685	1830.607
Analyte 3	1103.328	186.086	975.691	1193.774	1451.478	1062.831	623.507	1116.779	1116.148	447.462
Analyte 4	521.879	168.440	257.229	244.392	298.625	286.254	369.715	341.249	746.045	604.202
Analyte 5	1334.033	1325.233	896.874	968.227	1369.556	827.902	1608.142	1152.001	898.824	1636.227
Analyte 6	2012.564	181.971	439.393	368.932	1262.704	1304.612	1386.612	245.863	1499.516	1167.283
Analyte 7	922.048	353.835	598.909	1462.207	3200.689	609.932	477.176	892.874	830.089	1043.538
Analyte 8	581.549	300.766	1094.059	1401.117	445.033	1310.517	1154.178	1004.849	958.245	921.217
Analyte 9	1245.563	59.695	929.722	613.043	629.730	577.129	836.575	870.466	243.136	1376.081
Analyte 10	259.758	1003.769	698.284	377.459	290.584	411.854	603.884	402.715	826.163	771.045
Analyte 11	1008.404	1531.919	74.117	1510.969	589.981	1189.345	950.332	217.260	759.192	1471.937
Analyte 12	621.541	700.124	633.785	196.871	861.387	288.561	230.198	579.880	593.204	104.884
Analyte 13	1449.323	1431.452	1640.360	1363.000	906.106	1491.129	1109.793	1180.563	793.091	2821.435
Analyte 14	694.984	2291.500	1170.540	1526.032	1312.597	1232.108	418.240	232.864	1021.808	426.063
Analyte 15	785.482	676.734	1233.735	700.661	847.746	1014.105	1290.485	911.055	1003.385	269.575
Analyte 16	828.528	876.051	1163.289	1005.288	1058.942	1377.266	515.315	633.536	223.066	870.423
Analyte 17	843.312	1672.264	1217.696	584.026	456.537	646.377	742.516	465.354	708.254	893.121
Analyte 18	949.456	1358.127	227.984	1097.306	801.257	1088.564	1394.957	527.649	11.801	157.418
Analyte 19	640.221	694.057	574.125	326.245	630.580	575.438	808.246	633.254	507.314	447.501
Analyte 20	1859.986	801.175	168.853	1483.202	1517.160	1581.335	814.914	1318.254	863.999	1206.532
Analyte 21	1920.730	2340.872	1103.927	548.030	1785.828	1632.822	439.852	1604.277	1735.469	472.630
Analyte 22	309.995	839.224	1042.976	1849.893	1245.304	639.481	684.370	945.811	339.260	580.459
Analyte 23	1489.121	155.053	257.617	1816.485	1296.425	1695.470	1171.689	1306.931	814.687	353.115
Analyte 24	950.948	924.191	795.917	1515.448	250.782	158.756	1305.323	567.528	977.706	444.658
Analyte 25	316.657	1153.705	749.236	112.066	741.480	573.481	182.468	858.673	356.726	1005.918

Fig. 6A

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Analyte 1	512.545	502.234	817.461	303.935	93.932	985.182	973.650	1262.649	617.311	372.106
Analyte 2	1239.451	1327.521	1616.511	1040.071	17.762	1229.280	2127.475	184.788	531.685	1210.897
Analyte 3	1090.357	147.343	975.691	1025.364	1367.650	931.929	601.377	1036.116	1116.148	295.984
Analyte 4	515.744	133.371	257.229	209.915	281.378	250.998	356.890	316.601	746.045	399.664
Analyte 5	1318.350	1049.920	896.874	831.636	1390.458	725.934	1550.425	1347.124	888.824	1082.320
Analyte 6	1988.904	144.085	439.393	316.112	1189.770	1143.931	1338.511	228.104	1499.516	772.126
Analyte 7	911.308	280.167	599.909	1255.928	2073.590	534.810	460.623	828.383	830.089	690.286
Analyte 8	574.712	238.146	1094.039	1203.456	419.330	1149.109	1114.140	932.270	958.245	609.360
Analyte 9	1230.920	47.266	929.722	526.539	593.360	506.047	807.554	907.593	243.136	910.240
Analyte 10	256.705	794.785	698.284	324.210	273.801	361.128	582.936	373.627	826.163	510.026
Analyte 11	996.549	1212.974	74.117	1297.811	555.907	1041.984	917.360	201.567	739.192	973.646
Analyte 12	614.234	554.358	633.785	168.410	811.639	253.021	222.213	537.996	593.204	69.378
Analyte 13	1432.284	1133.425	1640.360	1170.716	853.775	1307.476	1071.294	1095.292	793.091	1866.303
Analyte 14	686.813	1814.411	1170.540	1310.748	1236.790	1080.357	403.731	216.045	1021.808	281.829
Analyte 15	776.248	535.838	1233.735	601.816	798.786	889.204	1245.718	845.251	1003.385	178.318
Analyte 16	818.788	693.638	1163.289	863.468	997.218	1207.636	497.439	587.776	223.066	575.761
Analyte 17	833.398	1324.099	1217.696	501.635	430.170	566.767	716.758	450.298	708.254	590.775
Analyte 18	938.294	1875.966	227.984	942.585	754.981	954.492	1336.913	489.538	11.801	104.128
Analyte 19	632.694	549.534	574.125	280.230	594.161	504.564	780.208	587.515	507.314	296.010
Analyte 20	1838.119	634.371	168.853	1273.961	1429.538	1386.484	786.645	1223.038	863.999	798.101
Analyte 21	1898.150	1853.504	1103.927	470.717	1682.690	1431.718	424.594	1488.402	1735.469	312.632
Analyte 22	306.351	664.498	1042.976	1588.921	1173.393	560.720	660.629	877.496	339.260	383.958
Analyte 23	1471.614	122.771	257.617	1560.226	1221.552	1486.650	1131.043	1212.333	814.887	234.899
Analyte 24	939.769	731.775	795.917	1301.658	236.299	139.203	1260.042	526.536	977.706	294.130
Analyte 25	312.934	913.504	749.236	96.257	698.657	502.949	176.138	796.652	356.726	665.387

Fig. 6B

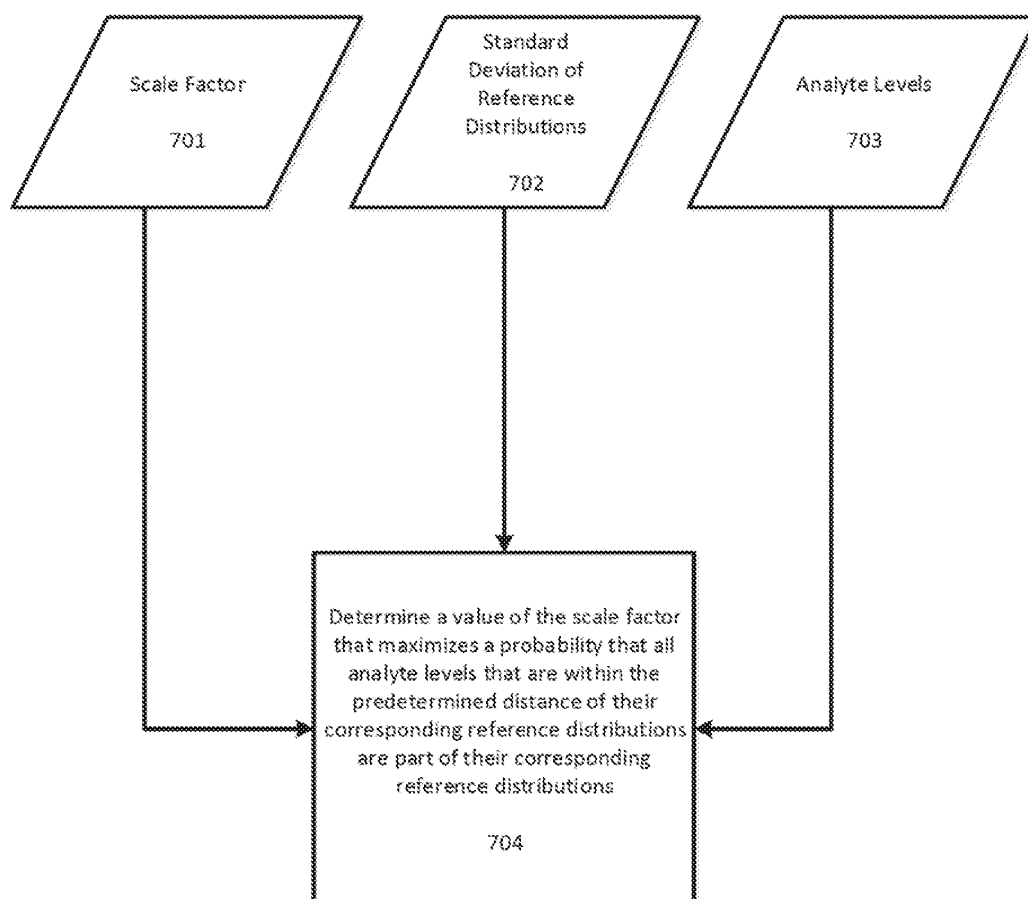


Fig. 7

Analyte	Sample 4	Logis Sample 4	Reference Median	Logis Reference Median	Reference MAD	M-diet.	Within-Cutoff
Analyte 1	366.169	2.564	983.182	2.994	0.067	-4.968	FALSE
Analyte 2	1253.036	3.098	1210.897	3.083	0.104	0.143	TRUE
Analyte 3	1235.317	3.092	1062.831	3.026	0.120	0.545	TRUE
Analyte 4	252.897	2.403	515.744	2.712	0.029	-10.827	FALSE
Analyte 5	1001.921	3.001	1049.320	3.021	0.060	-0.334	TRUE
Analyte 6	980.839	2.581	1193.759	3.077	0.079	-6.297	FALSE
Analyte 7	1513.092	3.180	1163.684	3.066	0.079	1.435	TRUE
Analyte 8	1449.875	3.181	836.534	3.922	0.116	2.061	FALSE
Analyte 9	634.377	2.802	880.597	2.935	0.097	-1.365	TRUE
Analyte 10	390.595	2.592	617.929	2.791	0.102	-1.949	TRUE
Analyte 11	1563.551	3.194	973.447	2.988	0.130	1.578	TRUE
Analyte 12	202.894	2.307	621.541	2.793	0.095	-5.105	FALSE
Analyte 13	1410.433	3.149	1536.644	3.187	0.115	-0.325	TRUE
Analyte 14	1579.137	3.198	1312.597	3.118	0.112	0.716	TRUE
Analyte 15	725.044	2.860	796.113	2.901	0.125	-0.324	TRUE
Analyte 16	1040.272	3.017	1132.637	3.054	0.068	-0.546	TRUE
Analyte 17	604.350	2.781	1043.372	3.018	0.021	-11.322	FALSE
Analyte 18	1135.492	3.055	941.175	2.974	0.081	1.004	TRUE
Analyte 19	337.598	2.528	640.334	2.806	0.085	-3.289	FALSE
Analyte 20	1534.817	3.186	1179.185	3.072	0.090	1.274	TRUE
Analyte 21	567.182	2.754	1488.402	3.173	0.079	-5.292	FALSE
Analyte 22	1914.269	3.282	1166.864	3.067	0.077	2.804	FALSE
Analyte 23	1879.698	3.274	1131.043	3.053	0.041	5.427	FALSE
Analyte 24	1568.185	3.195	856.276	2.933	0.094	2.784	FALSE
Analyte 25	115.966	2.064	749.236	2.875	0.132	-6.150	FALSE

Fig. 8A

Iteration	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
1	0.928	1.028	0.963	0.976	0.909	0.854	0.932	0.917	0.991	1.024
2	0.968	1.000	1.000	0.946	0.942	0.941	0.949	1.000	1.000	1.000
3	0.978	1.000	1.000	1.000	0.983	1.000	0.948	1.000	1.000	1.000
4	0.975	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Fig. 8B

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Analyte 1	498.719	700.640	844.433	338.103	92.404	1104.093	896.089	1486.227	645.460	635.207
Analyte 2	1206.015	1572.944	1669.848	1356.995	17.414	1377.655	1957.999	217.509	555.929	2067.073
Analyte 3	1060.943	205.550	1007.894	1140.635	1345.394	1044.413	583.932	1219.581	1167.044	505.262
Analyte 4	501.831	186.059	265.716	233.513	276.799	281.294	328.460	372.661	780.064	682.249
Analyte 5	1282.785	1463.850	926.467	925.128	1269.459	813.555	1426.917	1585.660	939.810	1847.584
Analyte 6	1935.251	201.005	453.891	351.649	1170.417	1282.003	1231.884	268.495	1567.892	1318.066
Analyte 7	886.627	390.346	619.704	1397.119	2039.847	599.362	423.929	975.065	867.940	1178.359
Analyte 8	559.209	332.225	1130.158	1338.748	412.506	1287.806	1025.387	1097.347	1001.940	1040.214
Analyte 9	1197.715	65.939	960.398	585.754	583.785	567.127	743.224	950.594	254.223	1553.834
Analyte 10	249.780	1108.782	721.324	360.657	269.346	404.716	536.499	439.785	863.836	870.644
Analyte 11	989.665	1692.155	76.563	1433.710	546.861	1167.752	844.283	237.259	793.810	1662.072
Analyte 12	597.664	773.356	654.697	187.343	798.431	293.560	204.511	633.259	620.254	118.432
Analyte 13	1393.646	1581.180	1694.484	1302.328	839.831	1465.289	985.954	1289.236	829.256	3185.890
Analyte 14	668.286	2531.188	1209.162	1458.102	1216.663	1210.756	371.570	254.300	1068.402	481.099
Analyte 15	755.307	747.519	1274.442	689.472	785.787	996.531	1146.483	994.920	1049.138	304.397
Analyte 16	796.700	967.685	1291.673	960.539	980.990	1353.399	457.813	691.854	232.237	982.859
Analyte 17	810.916	1847.180	1257.874	558.029	423.170	635.176	659.661	530.032	740.549	1008.489
Analyte 18	912.983	1500.185	235.507	1048.461	742.695	1069.700	1230.414	576.220	12.340	177.752
Analyte 19	615.626	766.654	593.069	311.722	584.492	565.466	718.056	691.547	530.447	505.307
Analyte 20	1788.534	884.977	174.424	1417.179	1406.275	1553.833	723.980	1439.601	903.397	1362.406
Analyte 21	1846.945	2585.724	1140.352	523.635	1655.307	1604.527	390.770	1751.953	1814.605	533.681
Analyte 22	298.086	927.085	1077.389	1767.547	1154.289	628.399	688.083	1032.874	354.729	655.439
Analyte 23	1431.916	171.272	266.117	1735.626	1201.673	1666.089	1040.944	1427.237	851.835	400.986
Analyte 24	914.417	1020.860	822.179	1447.989	232.453	156.004	1159.666	619.770	1022.289	502.097
Analyte 25	304.492	1274.381	773.957	107.078	687.288	563.543	162.107	937.716	372.992	1135.856

Fig. 8C

	Logis Reference Median	Reference MAD	Logis Sample Median	Sample MAD	Cohen's D	Within-Cutoff
Analyte 1	2.994	0.087	2.926	0.237	0.666	FALSE
Analyte 2	3.083	0.104	3.166	0.156	-0.445	TRUE
Analyte 3	3.026	0.120	3.084	0.078	-0.400	TRUE
Analyte 4	2.712	0.029	2.569	0.218	0.653	FALSE
Analyte 5	3.021	0.060	3.164	0.123	-1.047	FALSE
Analyte 6	3.077	0.079	3.126	0.226	-0.207	TRUE
Analyte 7	3.066	0.079	2.981	0.208	0.381	TRUE
Analyte 8	2.912	0.116	3.039	0.127	-0.678	FALSE
Analyte 9	2.935	0.097	2.898	0.161	0.195	TRUE
Analyte 10	2.791	0.102	2.754	0.250	0.136	TRUE
Analyte 11	2.988	0.130	3.028	0.258	-0.138	TRUE
Analyte 12	2.793	0.095	2.816	0.164	-0.120	TRUE
Analyte 13	3.187	0.115	3.168	0.126	0.109	TRUE
Analyte 14	3.118	0.112	3.068	0.227	0.200	TRUE
Analyte 15	2.901	0.125	3.000	0.159	-0.487	TRUE
Analyte 16	3.054	0.068	2.978	0.140	0.490	TRUE
Analyte 17	3.018	0.021	2.897	0.157	0.766	FALSE
Analyte 18	2.974	0.081	2.987	0.265	-0.047	TRUE
Analyte 19	2.806	0.095	2.845	0.066	-0.356	TRUE
Analyte 20	3.072	0.090	3.155	0.219	-0.351	TRUE
Analyte 21	3.173	0.079	3.274	0.137	-0.640	FALSE
Analyte 22	3.067	0.077	2.924	0.186	0.709	FALSE
Analyte 23	3.053	0.041	3.124	0.249	-0.281	TRUE
Analyte 24	2.933	0.094	2.964	0.230	-0.124	TRUE
Analyte 25	2.875	0.132	2.875	0.280	-0.001	TRUE

Fig. 9A

Analyte	Sample 1	Reference Median	Scale Factor
Analyte 2	1406.825	1210.897	0.861
Analyte 3	1237.598	1062.831	0.859
Analyte 6	2257.484	1193.759	0.529
Analyte 7	1034.256	1163.684	1.125
Analyte 9	1397.142	860.597	0.616
Analyte 10	291.370	617.929	2.121
Analyte 11	1131.121	973.447	0.861
Analyte 12	697.180	621.541	0.892
Analyte 13	1625.698	1536.644	0.945
Analyte 14	779.560	1312.597	1.684
Analyte 15	881.071	796.113	0.904
Analyte 16	929.356	1132.637	1.219
Analyte 18	1065.001	941.175	0.884
Analyte 19	718.132	640.434	0.892
Analyte 20	2086.337	1179.185	0.565
Analyte 23	1670.340	1131.043	0.677
Analyte 24	1066.674	856.276	0.803
Analyte 25	355.192	749.236	2.109

Fig. 9B

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Analyte 1	518.38	694.39	884.96	376.27	180.99	1140.71	1035.39	1772.88	817.75	879.85
Analyte 2	1248.78	1424.80	1749.99	1287.59	19.03	1423.35	2261.37	259.42	704.32	2211.70
Analyte 3	1098.53	186.09	1056.26	1269.39	1470.41	1079.05	640.04	1454.56	1478.55	540.61
Analyte 4	519.60	168.44	278.47	259.87	302.52	290.62	379.52	444.46	988.38	729.99
Analyte 5	1528.21	1325.23	970.93	1029.55	1387.42	940.54	1648.74	1891.17	1190.66	1976.86
Analyte 6	2003.79	181.97	475.69	391.34	1379.17	1924.52	1423.88	320.38	1986.39	1410.39
Analyte 7	918.02	353.84	849.45	1554.82	2223.39	619.34	489.83	1183.93	1899.81	1260.81
Analyte 8	579.01	300.77	1184.40	1489.86	460.84	1330.52	1184.79	1308.78	1269.38	1113.00
Analyte 9	1240.18	59.69	1035.49	651.87	637.94	585.94	856.76	1133.75	322.08	1662.55
Analyte 10	358.63	1003.77	755.94	401.37	294.87	418.14	619.80	524.52	1094.41	931.56
Analyte 11	1004.01	1531.92	80.34	1605.67	597.88	1206.48	975.53	282.87	1035.69	1778.36
Analyte 12	610.89	700.12	635.12	208.49	872.82	292.96	236.30	755.37	785.81	126.72
Analyte 13	1443.00	1431.45	1775.81	1449.33	917.82	1513.89	1139.22	1597.84	1050.60	3408.80
Analyte 14	691.95	2291.50	1267.20	1622.69	1329.72	1230.91	429.33	303.30	1353.58	514.76
Analyte 15	782.06	676.72	1835.61	745.04	898.80	1029.58	1824.71	1186.81	1829.17	925.89
Analyte 16	824.91	876.06	1259.35	1068.96	1072.15	1298.29	528.98	825.16	295.49	1051.63
Analyte 17	839.63	1672.26	1318.25	621.02	462.49	666.04	762.21	622.16	938.22	1079.05
Analyte 18	945.32	1358.13	245.81	1166.81	811.71	1105.18	1421.68	687.24	15.63	198.19
Analyte 19	637.43	694.06	621.53	346.91	638.80	584.22	829.68	824.79	672.03	540.66
Analyte 20	1851.87	801.17	182.80	1677.15	1636.95	1695.37	836.52	1718.97	1144.53	1457.73
Analyte 21	1912.35	3340.87	1195.08	582.74	1809.12	1657.74	451.52	2089.51	2298.96	571.02
Analyte 22	308.54	839.22	1128.10	1967.06	1261.55	848.24	702.52	1291.88	449.41	701.80
Analyte 23	1482.63	155.05	278.89	1931.54	1319.33	1721.25	1202.76	1702.33	1079.31	429.04
Analyte 24	946.80	924.19	881.64	1611.44	354.05	161.18	1339.94	739.18	1295.16	597.23
Analyte 25	315.28	1153.71	811.10	119.16	751.35	982.23	187.31	1118.39	472.55	1015.33

Fig. 9C

Analyte	Logis Reference Median	Reference MAD	Logis Sample Median	Sample MAD	Cohen's D	Within-Cutoff
Analyte 1	2.994	0.087	2.872	0.224	0.504	FALSE
Analyte 2	3.093	0.104	3.132	0.241	-0.185	TRUE
Analyte 3	3.026	0.120	3.037	0.190	-0.047	TRUE
Analyte 4	2.712	0.029	2.530	0.173	1.042	FALSE
Analyte 5	3.021	0.060	3.123	0.152	-0.625	FALSE
Analyte 6	3.077	0.079	3.114	0.275	-0.131	TRUE
Analyte 7	3.066	0.079	3.002	0.281	0.218	TRUE
Analyte 8	2.922	0.116	3.074	0.069	-1.118	FALSE
Analyte 9	2.935	0.097	2.874	0.229	0.244	TRUE
Analyte 10	2.791	0.102	2.756	0.271	0.120	TRUE
Analyte 11	2.988	0.130	3.002	0.287	-0.044	TRUE
Analyte 12	2.793	0.095	2.814	0.154	-0.113	TRUE
Analyte 13	3.187	0.115	3.160	0.086	0.184	TRUE
Analyte 14	3.118	0.112	3.100	0.274	0.061	TRUE
Analyte 15	2.901	0.125	2.973	0.181	-0.329	TRUE
Analyte 16	3.054	0.068	2.982	0.097	0.606	FALSE
Analyte 17	3.018	0.021	2.903	0.157	0.717	FALSE
Analyte 18	2.974	0.081	2.942	0.233	0.126	TRUE
Analyte 19	2.806	0.085	2.805	0.055	0.016	TRUE
Analyte 20	3.072	0.090	3.175	0.113	-0.719	FALSE
Analyte 21	3.173	0.079	3.238	0.188	-0.322	TRUE
Analyte 22	3.067	0.077	2.885	0.276	0.834	FALSE
Analyte 23	3.053	0.041	3.099	0.199	-0.226	TRUE
Analyte 24	2.933	0.094	2.951	0.251	-0.067	TRUE
Analyte 25	2.875	0.132	2.820	0.348	0.146	TRUE

Fig. 9D

Iteration	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
1	0.888	0.931	1.012	1.018	0.920	0.830	0.969	1.093	1.243	1.096
2	0.996	0.973	1.006	1.060	0.997	1.015	0.998	0.999	0.968	1.185
3	1.009	1.004	1.000	1.000	1.005	0.970	1.000	1.000	1.002	1.000
4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Fig. 9E

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Analyte 1	518.643	507.682	690.469	390.935	101.248	1123.564	1033.173	1771.438	792.987	805.071
Analyte 2	1254.195	1319.353	1760.883	1365.163	19.081	1401.950	2257.534	259.250	602.993	2619.040
Analyte 3	1103.328	172.411	1062.831	1343.859	1474.160	1062.831	638.672	1453.622	1433.784	640.377
Analyte 4	521.879	156.062	280.202	273.527	303.291	286.254	378.707	444.176	958.356	864.693
Analyte 5	1334.033	1227.847	976.975	1091.577	1390.957	827.902	1645.207	1689.952	1154.614	2341.657
Analyte 6	2012.564	168.599	478.636	414.918	1282.436	1304.612	1430.338	320.020	1926.252	1670.537
Analyte 7	922.048	327.834	653.488	1648.489	2235.078	609.932	488.782	1162.182	1066.318	1493.470
Analyte 8	581.549	278.664	1191.770	1579.616	451.987	1310.517	1182.251	1307.931	1230.945	1318.384
Analyte 9	1245.563	55.308	1012.756	691.144	639.570	577.129	856.922	1133.015	312.328	1969.354
Analyte 10	259.758	930.006	760.648	425.547	295.124	411.854	618.572	524.181	1061.275	1103.468
Analyte 11	1008.404	1419.345	80.737	1703.463	599.201	1188.345	973.447	282.790	975.244	2106.536
Analyte 12	621.541	648.675	690.389	221.050	874.848	288.561	235.797	754.783	762.020	150.102
Analyte 13	1449.323	1326.261	1786.862	1536.644	920.266	1491.129	1136.786	1536.644	1018.791	4037.846
Analyte 14	694.984	2123.186	1275.082	1720.445	1333.109	1232.108	420.412	303.101	1311.507	689.753
Analyte 15	785.482	627.003	1343.921	789.924	660.994	1014.105	1321.873	1185.840	1288.931	385.797
Analyte 16	828.528	811.674	1267.184	1133.360	1074.880	1377.266	537.849	824.623	286.547	1245.891
Analyte 17	843.312	1549.377	1326.450	658.430	463.671	646.377	760.576	631.747	909.810	1278.174
Analyte 18	949.456	1258.324	248.346	1237.101	813.778	1088.564	1418.643	686.798	15.160	235.286
Analyte 19	640.231	643.053	625.401	367.808	640.434	575.438	827.904	824.256	651.687	640.434
Analyte 20	1859.986	742.300	183.934	1672.159	1540.868	1581.235	834.735	1715.865	1109.878	1736.735
Analyte 21	1920.730	2168.852	1202.520	617.848	1613.735	1632.822	450.550	2088.158	2229.353	676.396
Analyte 22	309.985	777.553	1136.125	2083.565	1264.765	639.481	701.016	1231.086	493.807	830.713
Analyte 23	1489.121	143.659	280.625	2047.902	1316.684	1695.470	1200.188	1701.127	1046.532	506.216
Analyte 24	950.948	856.276	867.001	1708.513	254.701	158.756	1337.072	738.706	1255.944	636.365
Analyte 25	316.657	1068.924	816.151	126.343	753.067	573.481	186.906	1117.666	458.244	1439.601

Fig. 9F

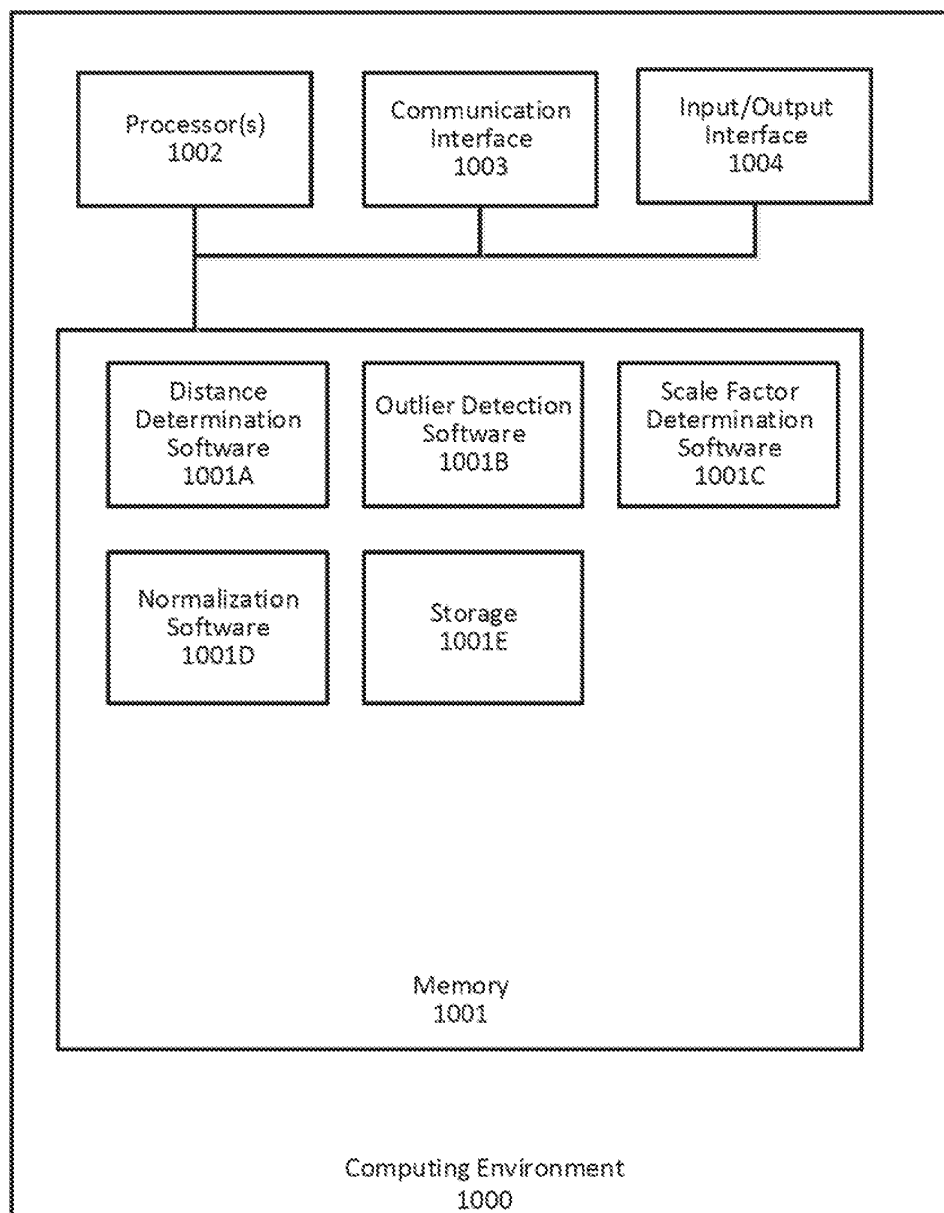


Fig. 10

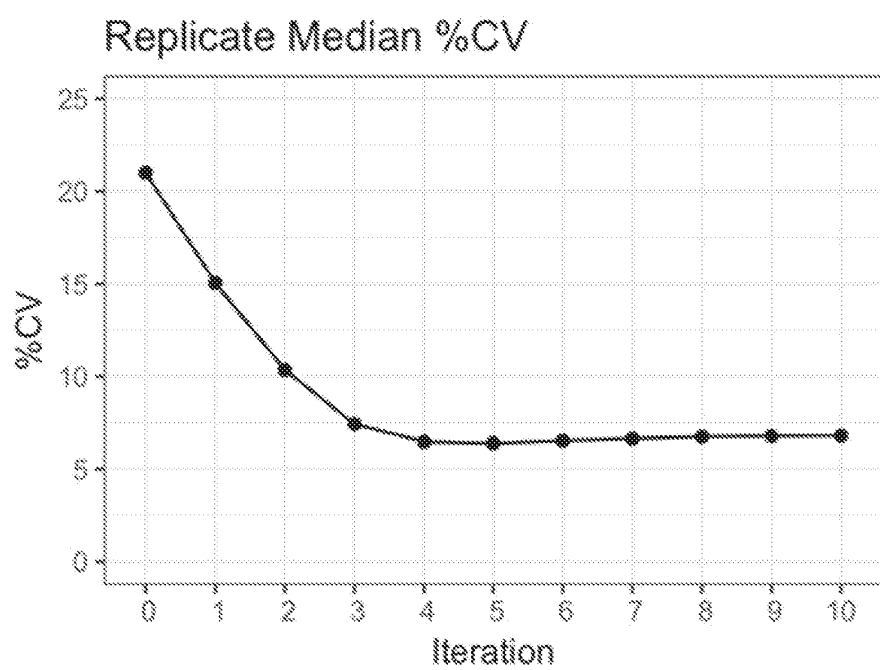


Fig. 11

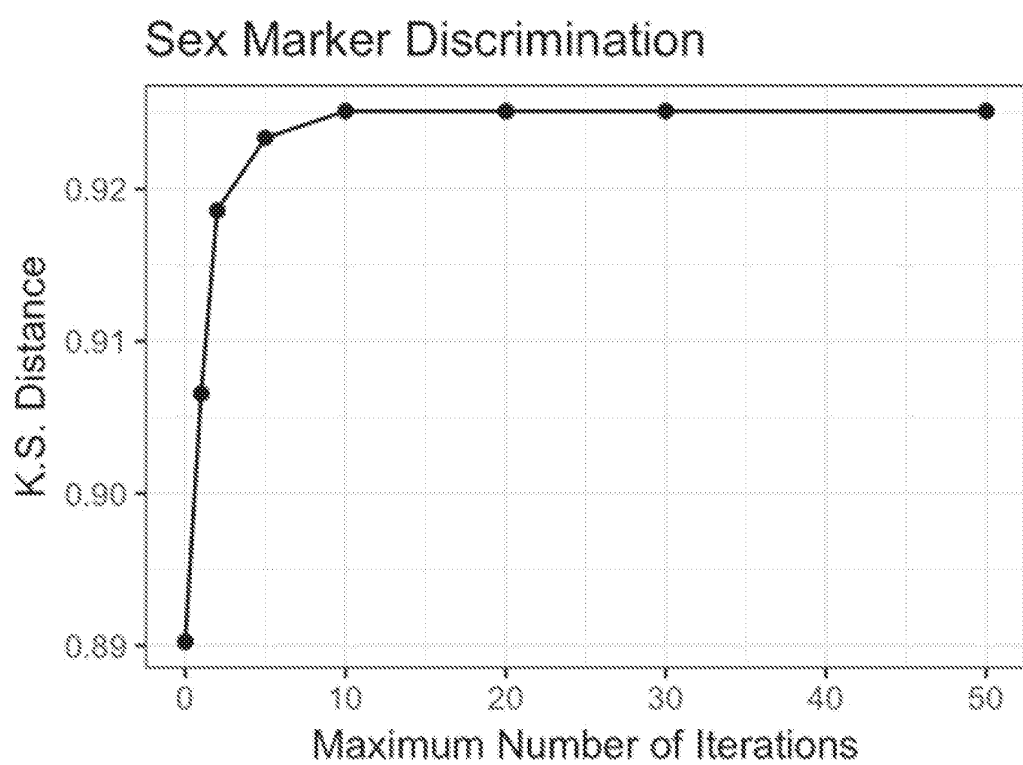


Fig. 12

Sample ID	170255	170259	170260	170263
Count	1922	18	18	108

Fig. 13

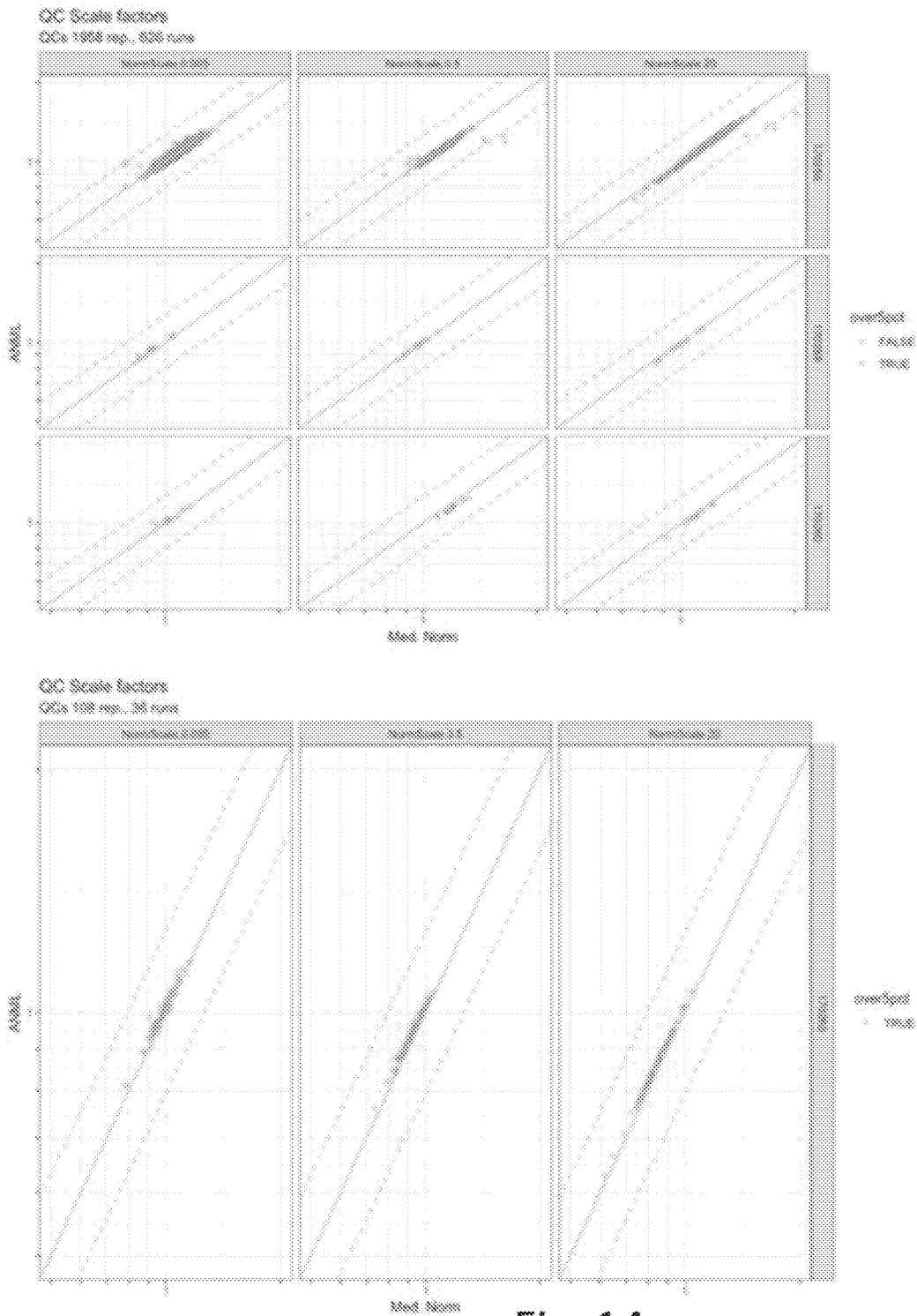


Fig. 14

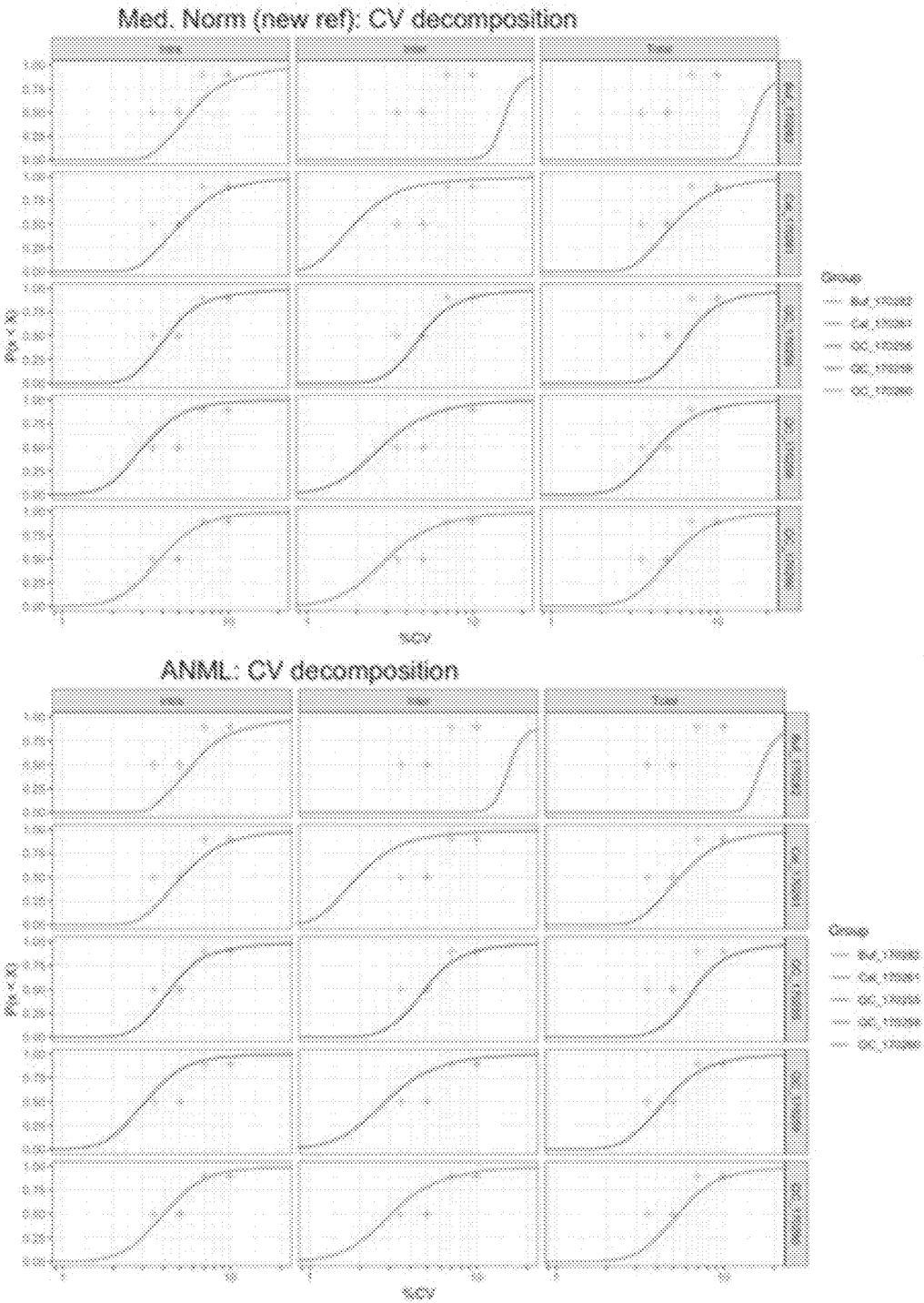


Fig. 15

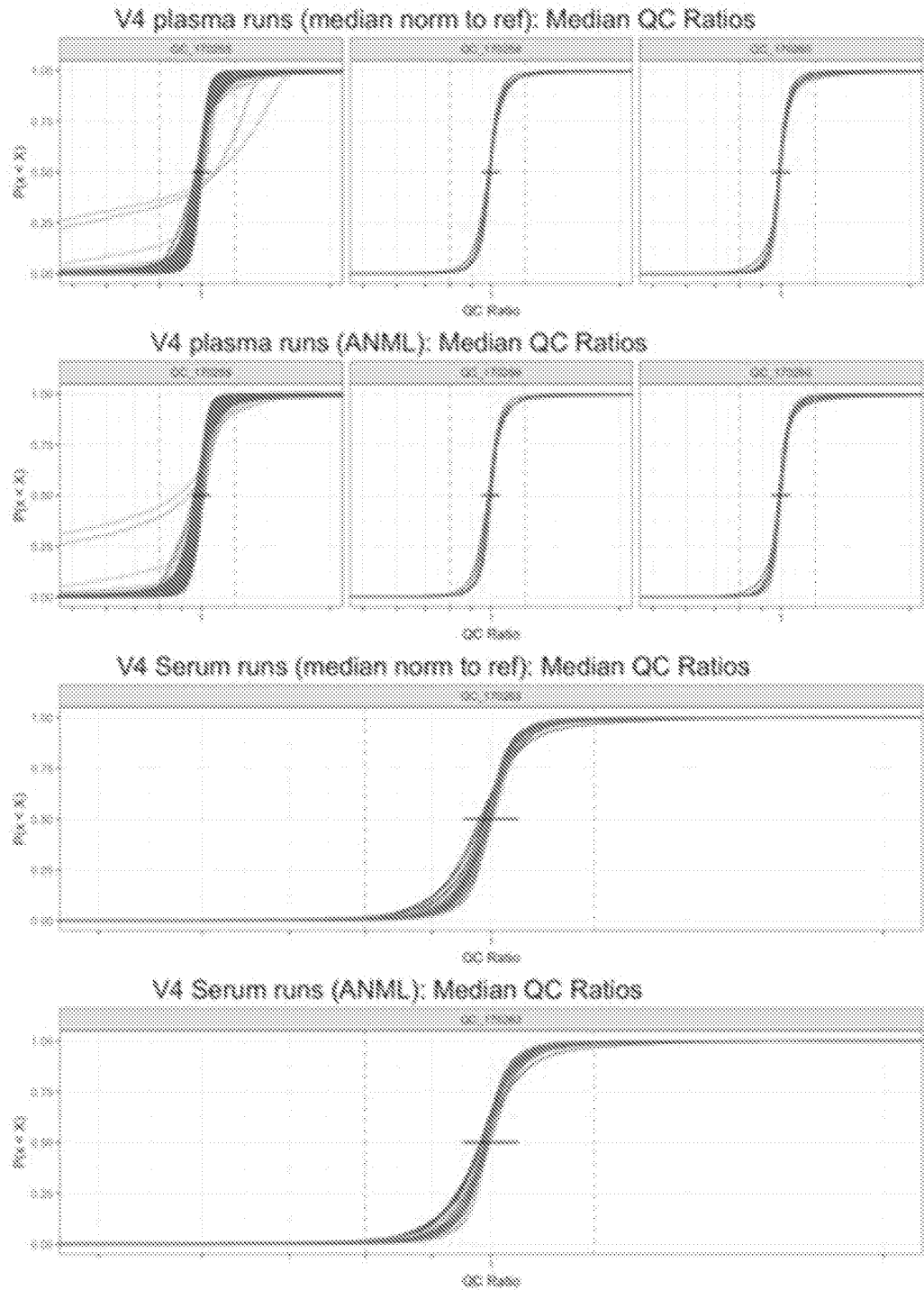


Fig. 16

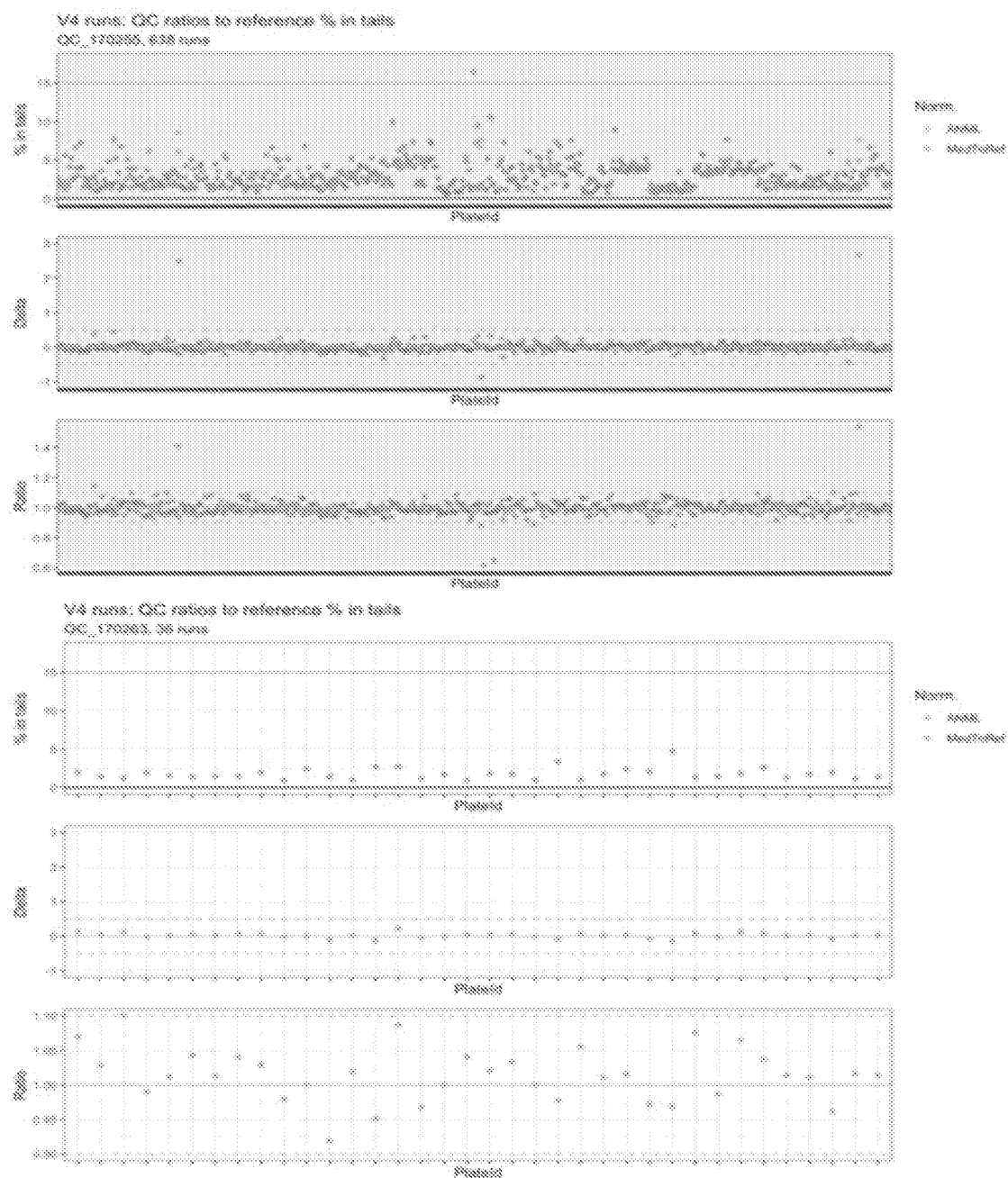


Fig. 17

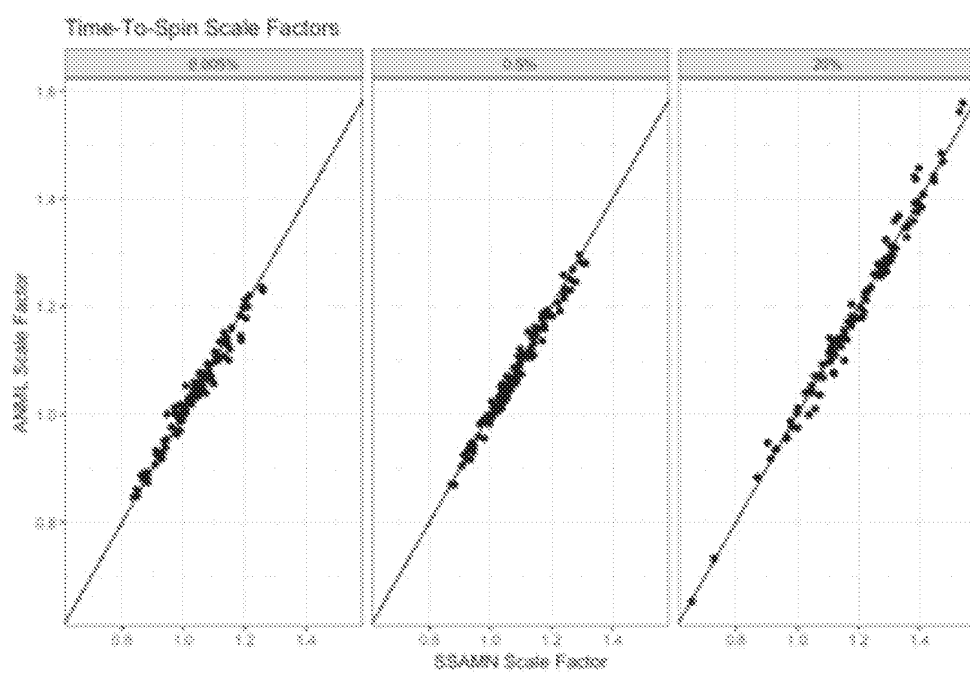


Fig. 18

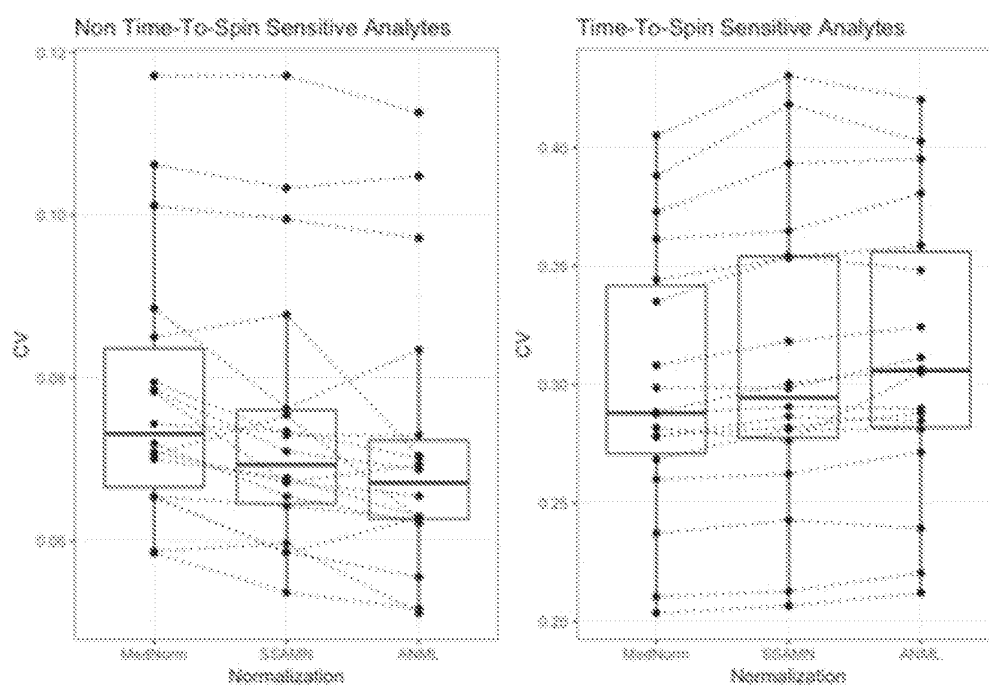


Fig. 19

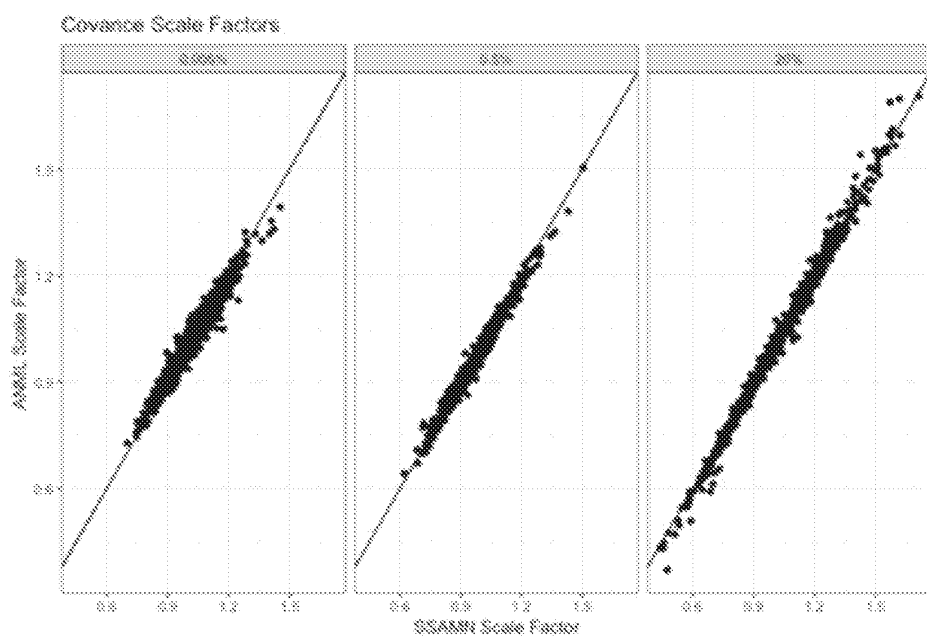


Fig. 20

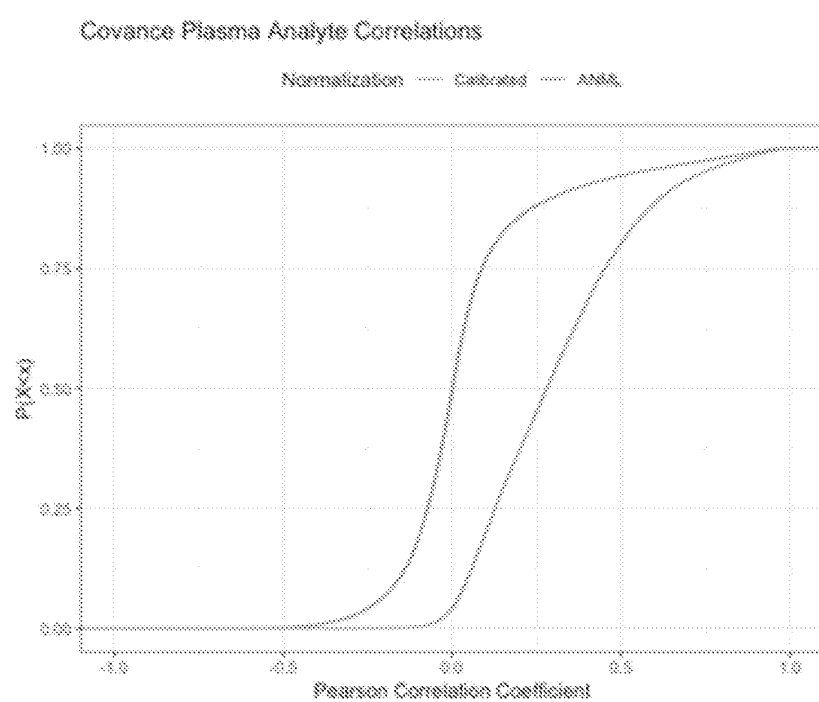


Fig. 21

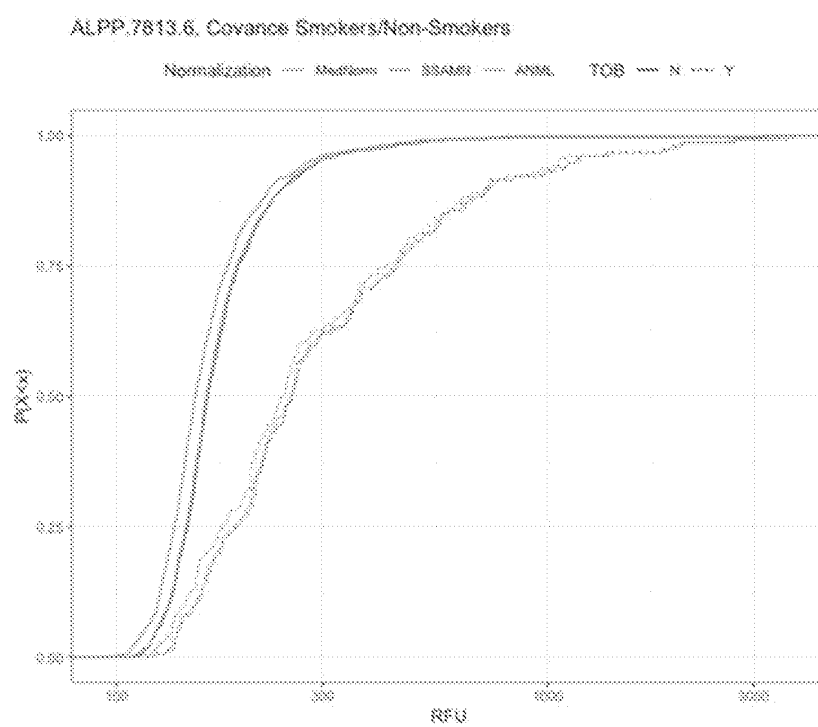


Fig. 22

Normalization	SSAMN	ANML
Accuracy	0.85	0.89
Sensitivity	0.71	0.75
Specificity	0.89	0.90

Fig. 23

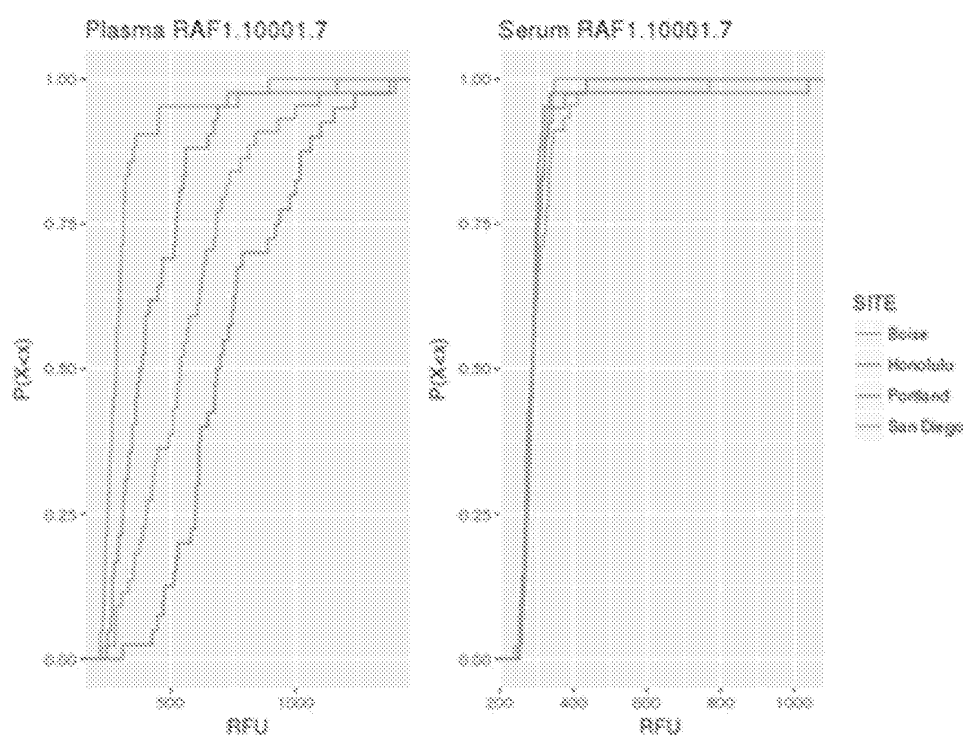


Fig. 24

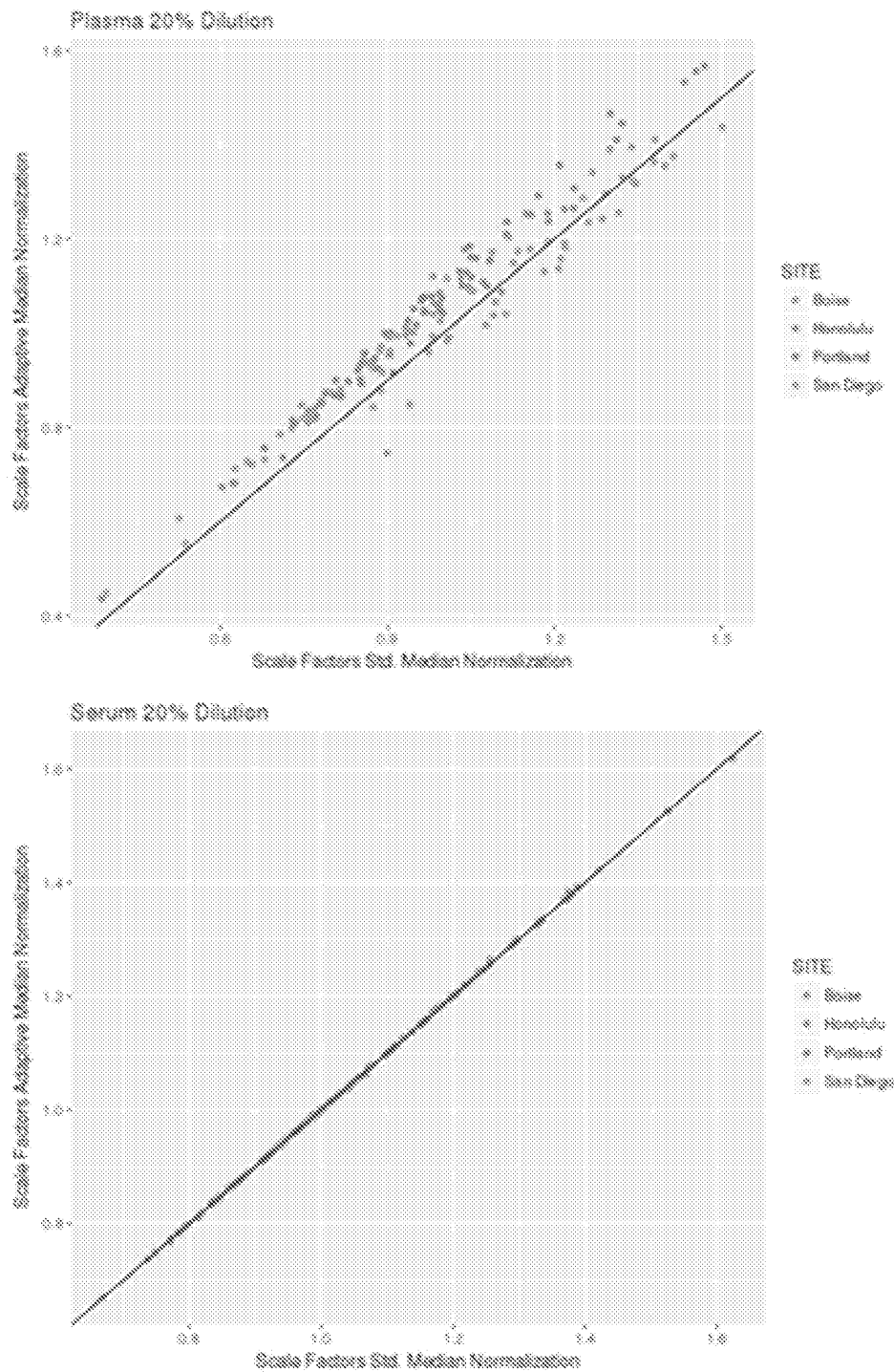


Fig. 25

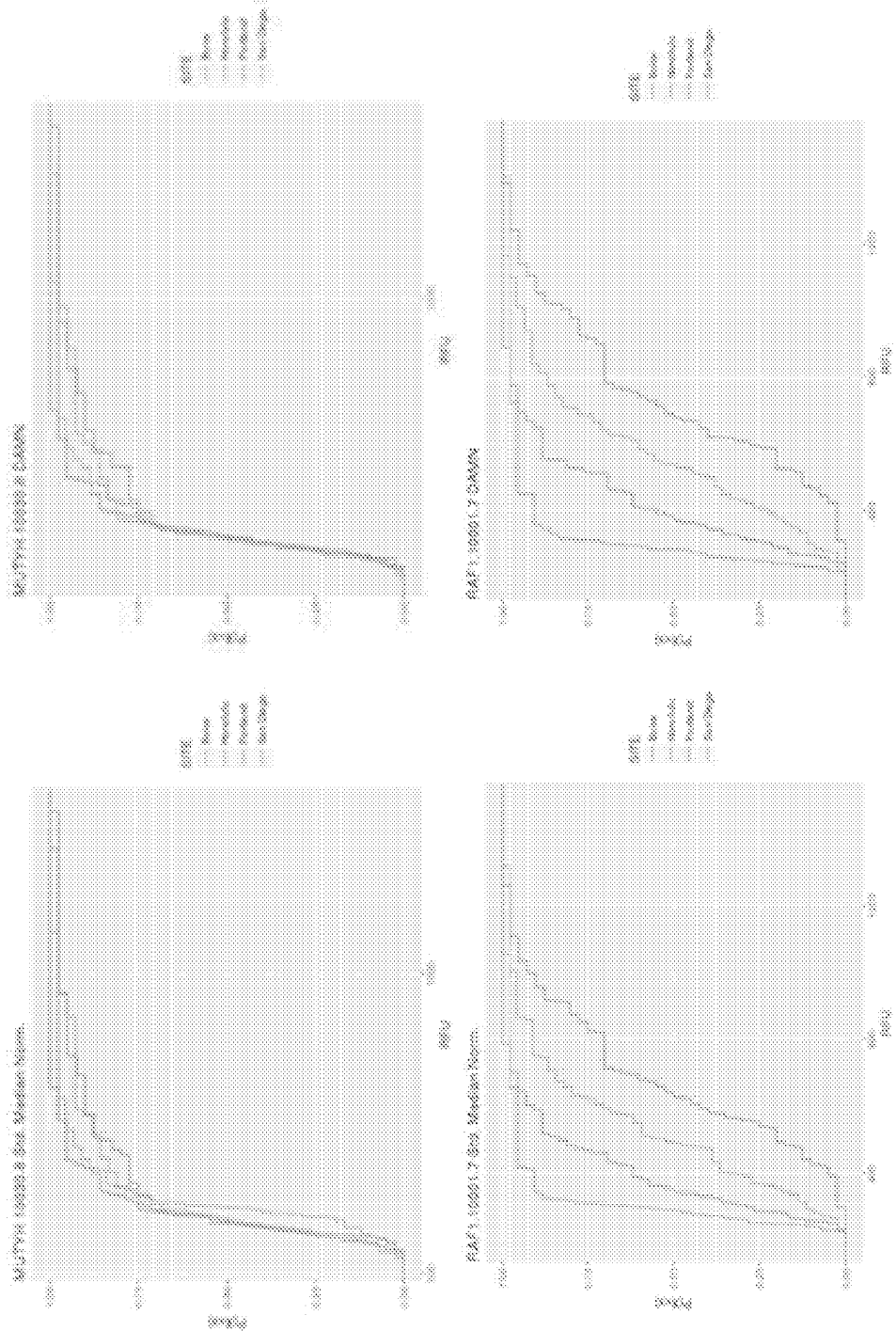


Fig. 26

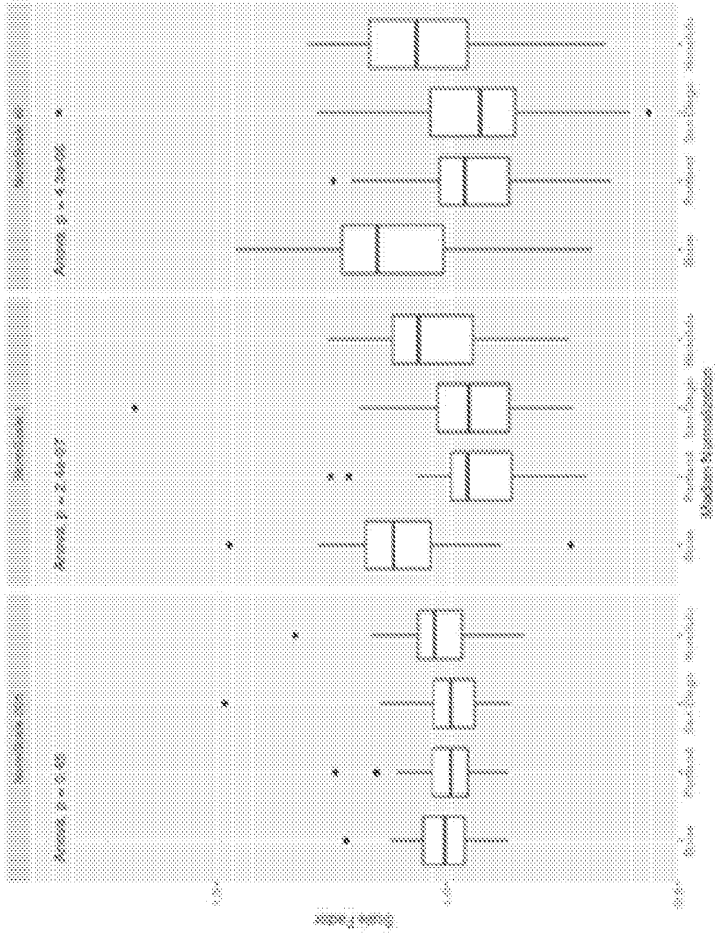


Fig. 27

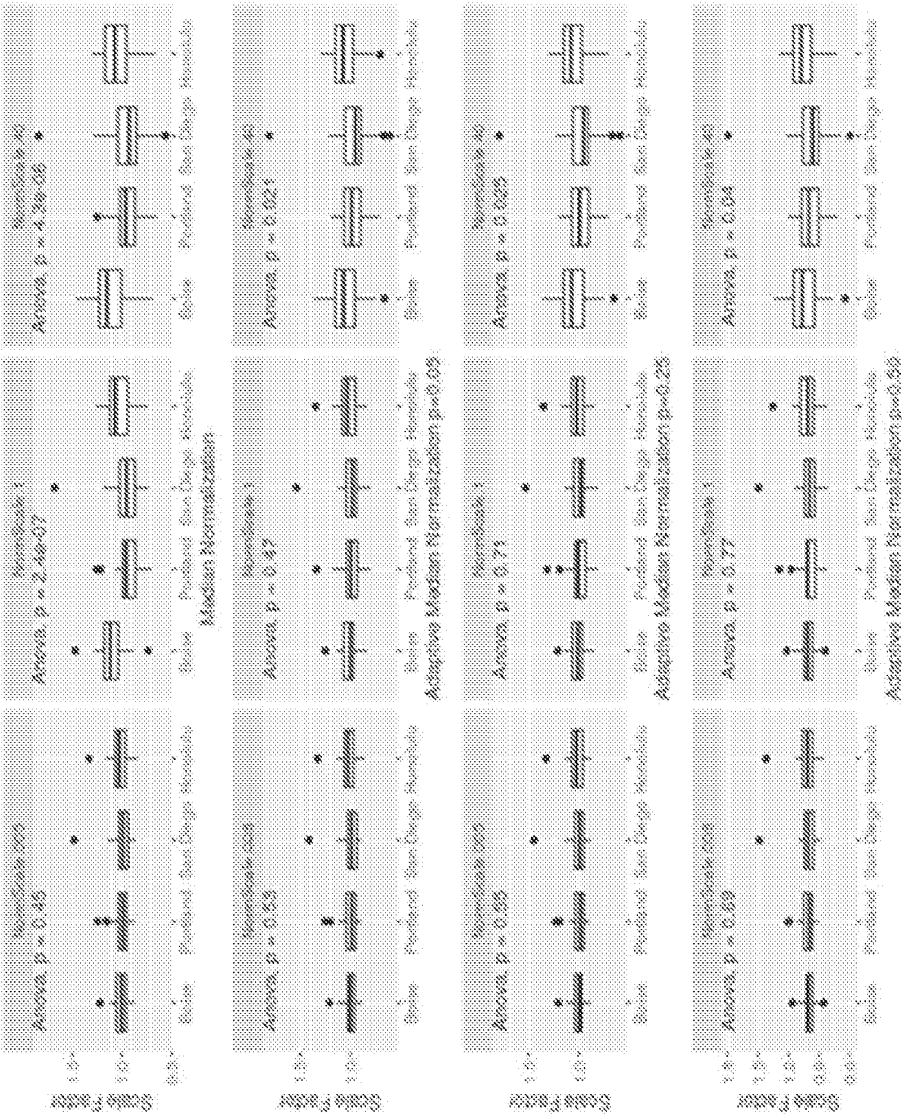


Fig. 28

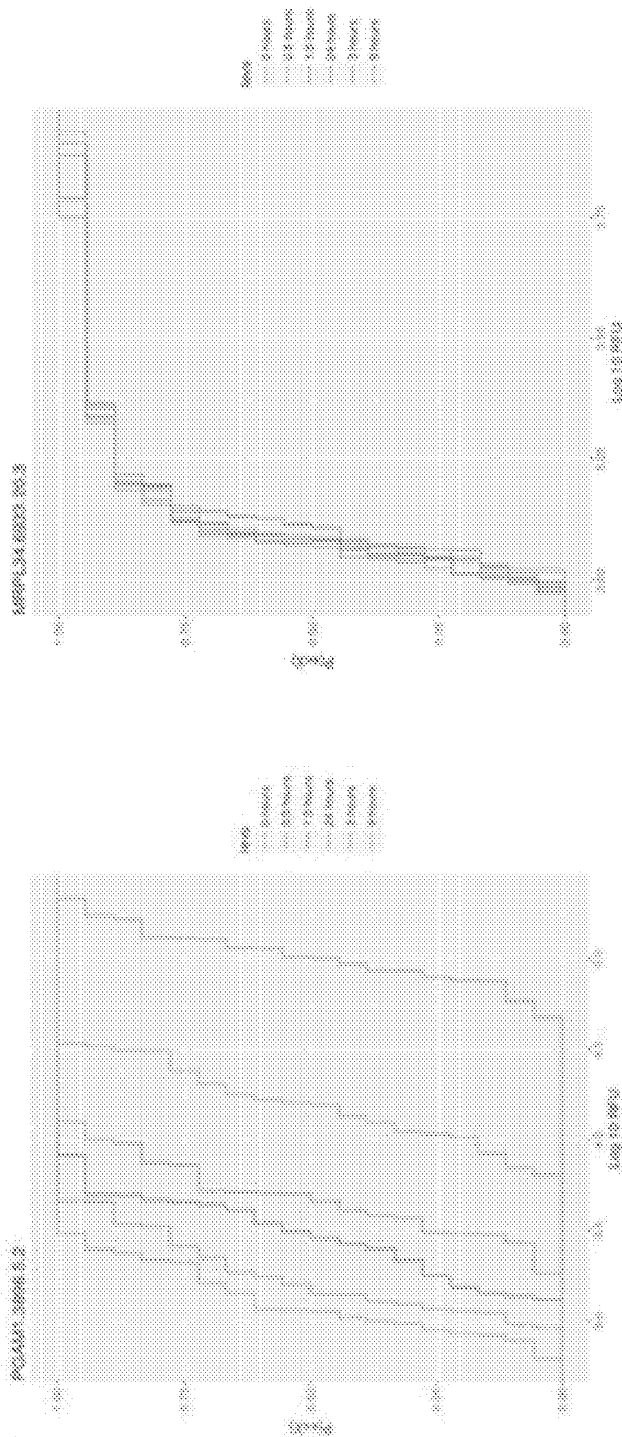


Fig. 29

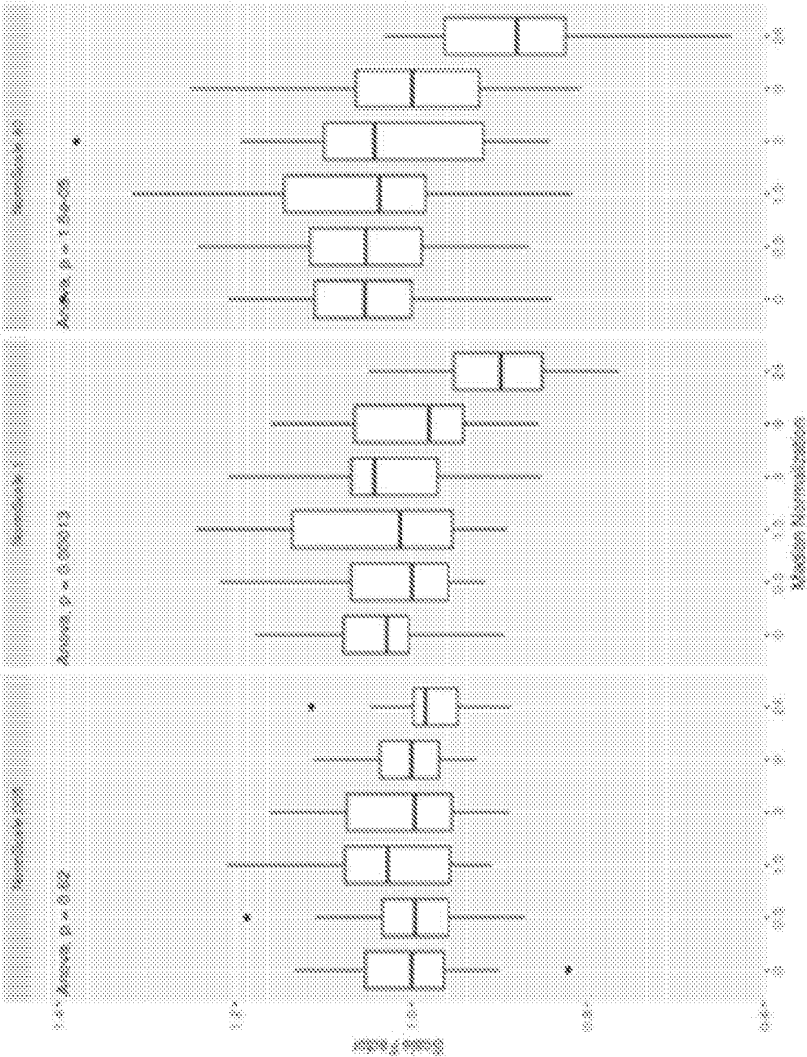


Fig. 30

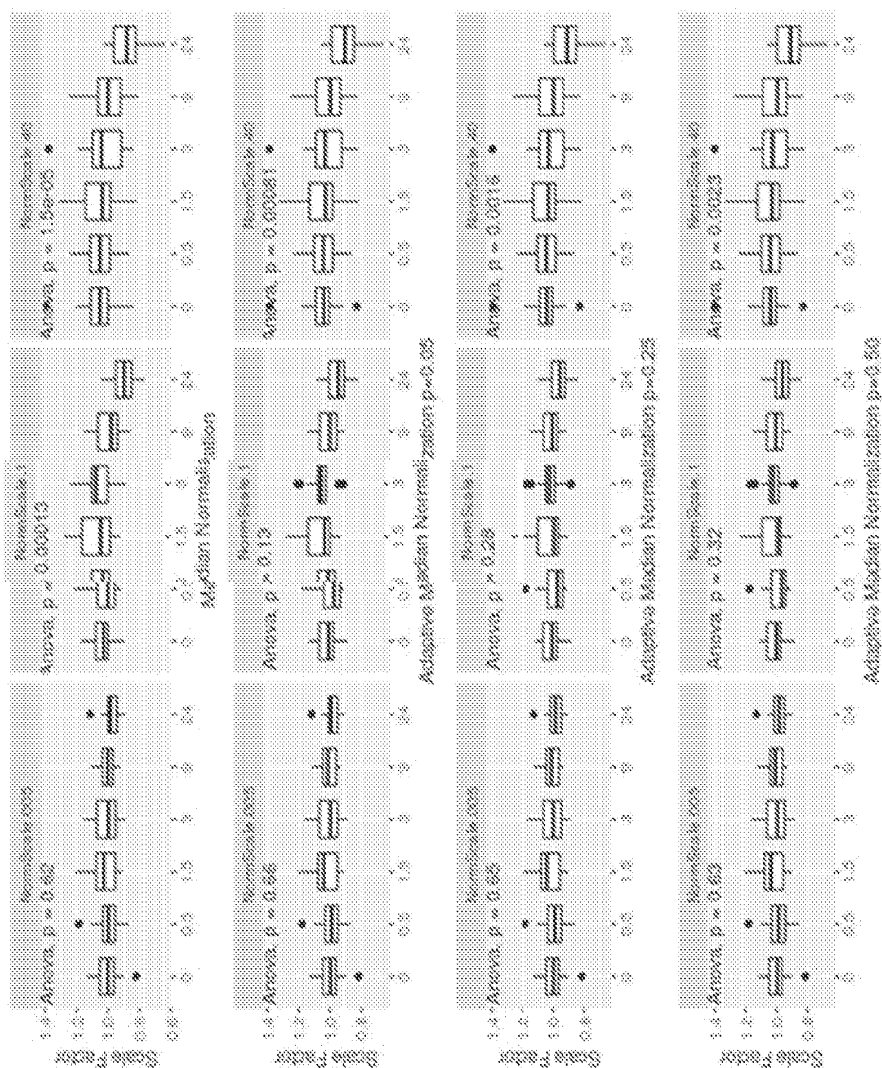


Fig. 31

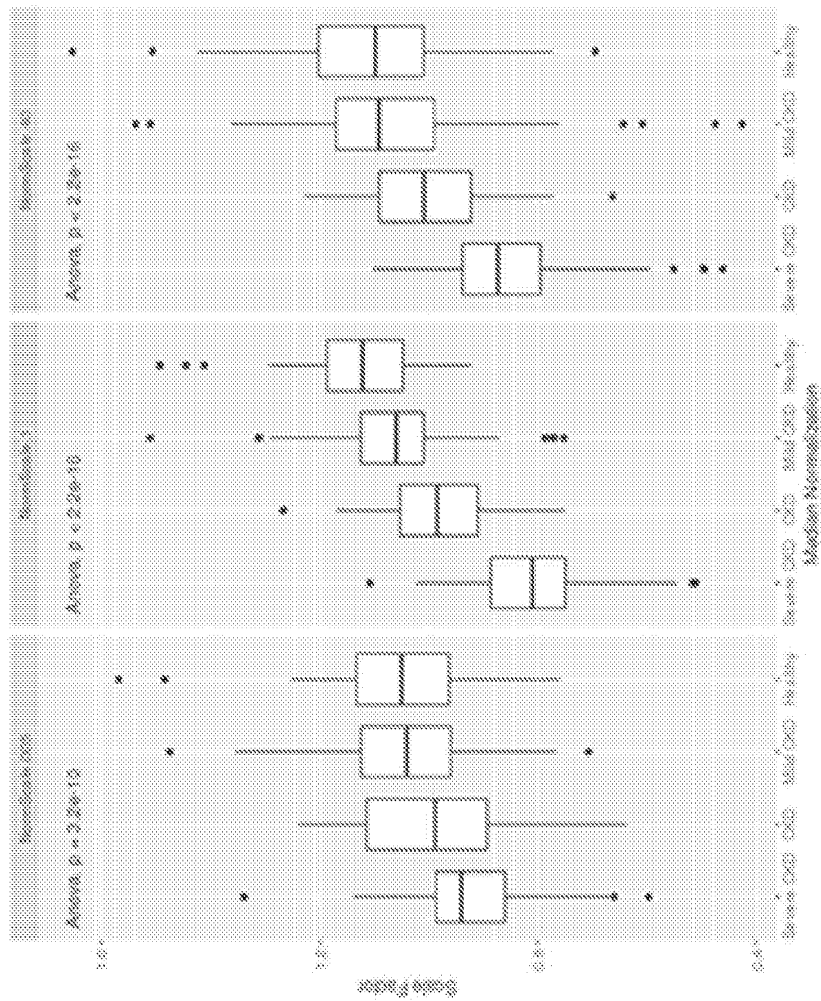


Fig. 32

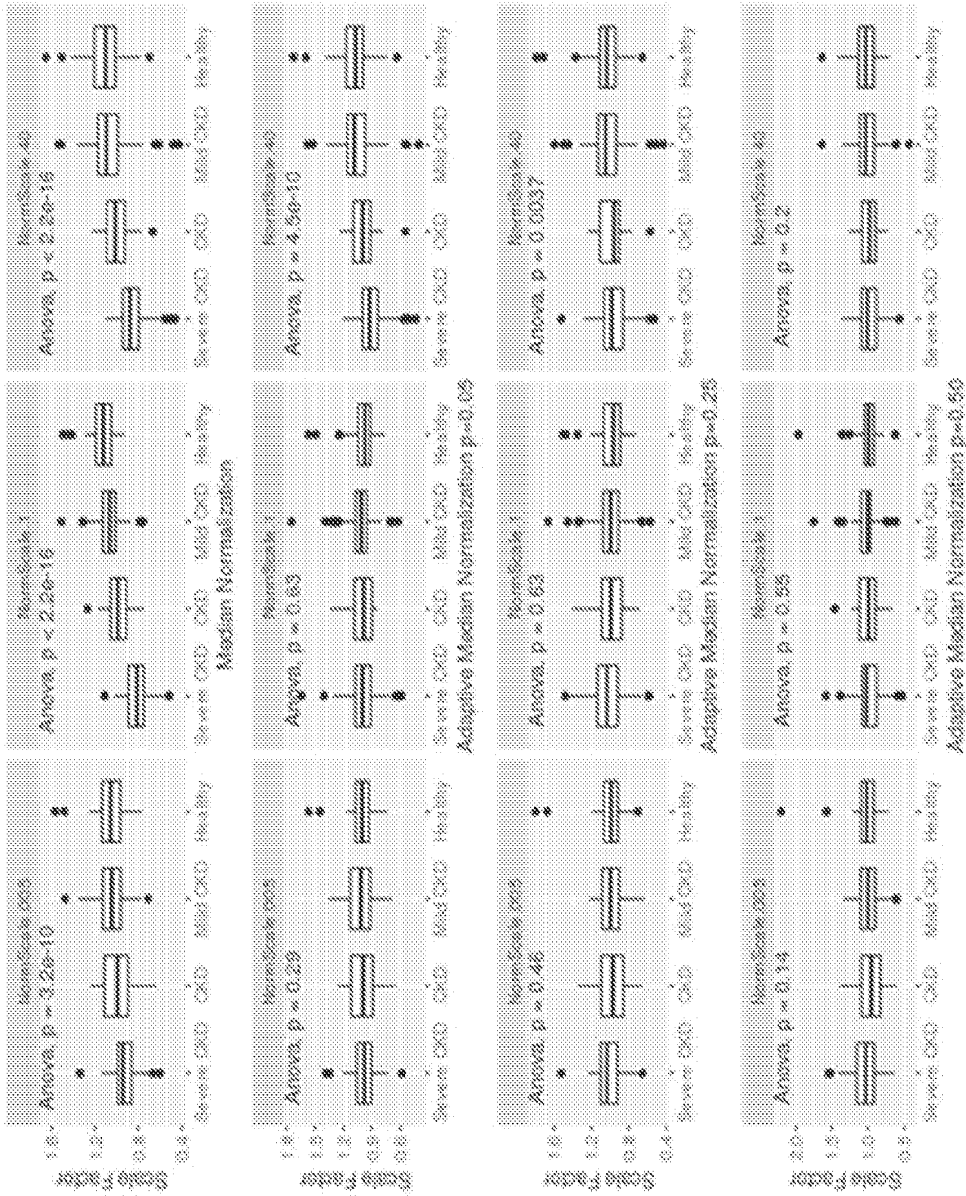


Fig. 33

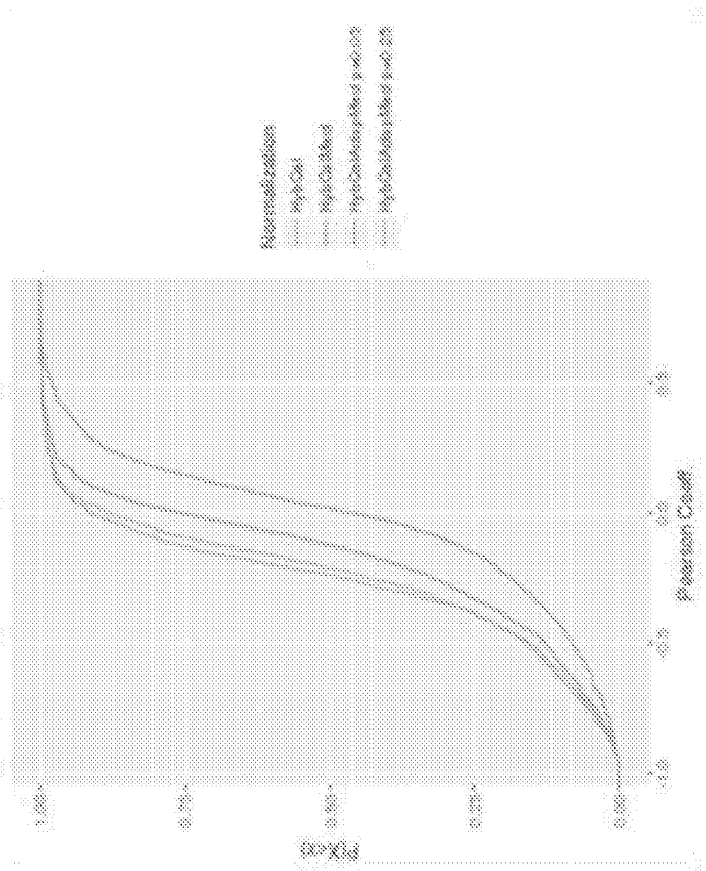


Fig. 34

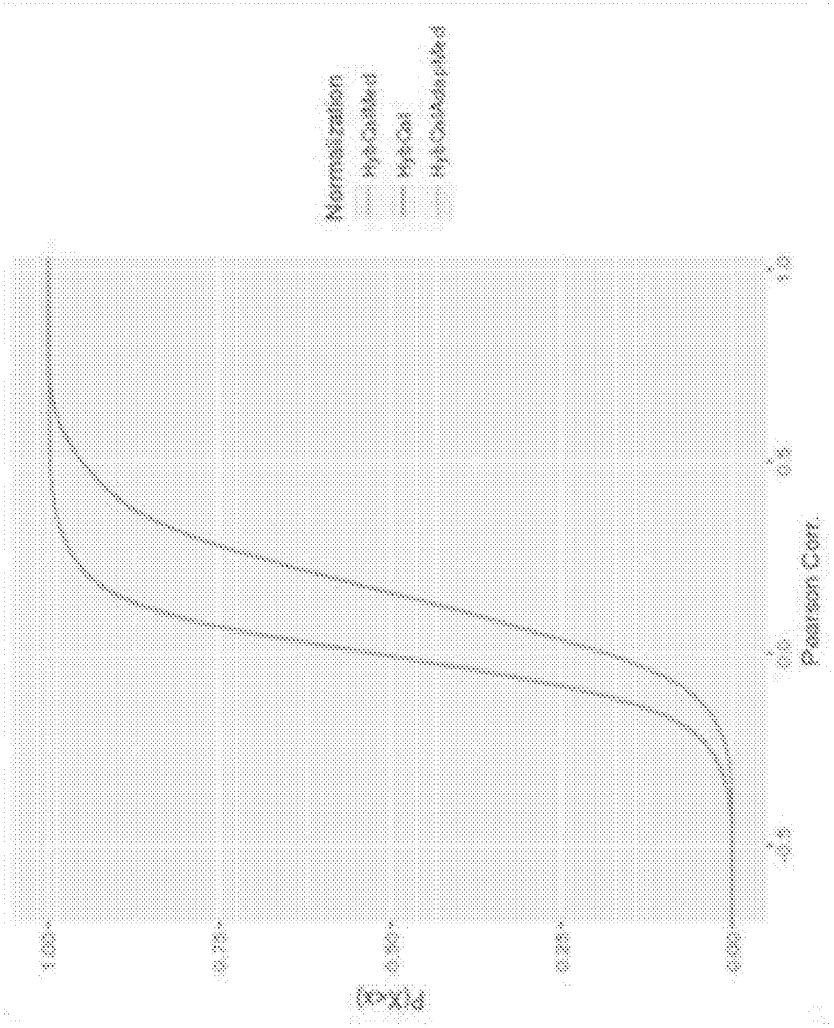


Fig. 35