

Peak Data										Normalized Peak Area							
No.	Label	Size	Ref. size	Size diff.	MRC size	Height	Width	Area	Peak Area	Ref. Mean	Ref. SD	Ref. Weigh	Position p-tel band	Ratio	Dist. in SD	1.0 low high	
6	64 -	61.53	61.20	0.33	64	213	15.2	3239	0.718	0.897	0.243	0.68	64 nt	0.80	-0.7	-	
8	70 -	67.43	66.91	0.52 *	70	190	18.6	3535	0.784	0.751	0.145	0.96	70 nt	1.04	0.2	.	
9	76 -	72.94	72.54	0.40	76	248	22.3	5542	1.229	1.111	0.183	1.12	76 nt	1.11	0.6	-	
10	82 -	78.86	78.43	0.43	82	288	19.9	5717	1.268	1.241	0.185	1.24	82 nt	1.02	0.1	.	
<b>Ctrl: Q-fragments</b>					Mean	235	19.0	4508	1.000	1.000	0.189	1.00	(CV: <b>0.12</b> )	<b>1.01</b>			
12	2 A	90.59	90.17	0.42	94	2369	9.8	23311	0.949	0.993	0.108	1.00	2q14 synt.	0.96	-0.4	.	
<b>Synthetic control probe</b>					Mean	2369	9.8	23311	0.949	0.993	0.108	1.00	(CV: )	<b>0.96</b>			
18	13 A	146.24	145.92	0.32	148	3319	9.5	31642	1.288	1.437	0.075	1.29	13q32.1	0.90	-2.0	-	
25	13 A	177.59	177.35	0.24	178	2699	9.8	26388	1.074	0.990	0.072	0.92	13q13.3	1.08	1.2	-	
30	13 B	219.10	218.82	0.28	220	3437	10.1	34569	1.310	1.332	0.076	1.18	13q14.2	0.98	-0.3	.	
35	13 B	262.73	262.45	0.28	265	2450	10.4	25454	0.964	0.951	0.069	0.92	13q21.33	1.01	0.2	.	
40	13 C	310.16	309.93	0.23	310	2270	11.1	25133	1.269	1.315	0.084	1.05	13q34	0.96	-0.6	.	
44	13 C	355.24	355.19	0.05	355	1944	12.6	24461	1.235	1.209	0.069	1.18	13q13.1	1.02	0.4	.	
48	13 D	398.54	398.39	0.15	400	2277	12.4	28255	1.297	1.278	0.110	0.78	13q14.2	1.01	0.2	.	
52	13 D	442.74	442.59	0.15	445	1602	13.3	21256	0.976	0.990	0.097	0.68	13q34	0.99	-0.1	.	
<b>Chromosome 13</b>					Mean	2500	11.1	27145	1.176	1.188	0.081	1.00	(CV: <b>0.06</b> )	<b>0.99</b>			
16	18 A	140.36	140.07	0.29	142	3785	9.8	37105	1.510	1.531	0.090	1.13	18q21.1	0.99	-0.2	.	
23	18 A	170.95	170.78	0.17	172	2762	9.8	27187	1.107	1.112	0.083	0.90	18q21.32	1.00	-0.1	.	
29	18 B	210.11	209.88	0.23	211	2716	10.1	27523	1.043	1.191	0.072	1.10	18q11.2	0.88	-2.1	-	
34	18 B	253.03	252.77	0.26	256	3826	10.5	40099	1.519	1.489	0.074	1.35	18q23	1.02	0.4	.	
39	18 C	299.13	298.88	0.25	301	1875	11.3	21178	1.069	1.238	0.088	0.93	18p11.32	0.86	-1.9	-	
43	18 C	346.25	346.18	0.07	346	1116	11.6	12981	0.655	0.680	0.058	0.79	18q21.33	0.96	-0.4	.	
47	18 D	390.03	389.97	0.06	391	2445	12.2	29745	1.365	1.473	0.094	1.04	18q11.2	0.93	-1.1	-	
51	18 D	434.03	433.86	0.17	436	1947	12.8	24886	1.142	1.140	0.099	0.76	18p11.21	1.00	0.0	.	
<b>Chromosome 18</b>					Mean	2559	11.0	27588	1.176	1.232	0.082	1.00	(CV: <b>0.06</b> )	<b>0.95</b>			
15	21 A	133.26	132.90	0.36	136	5365	10.0	53551	2.180	1.526	0.080	1.23	21q22.13	1.43	8.2 *		
22	21 A	164.77	164.56	0.21	166	4376	10.0	43800	1.783	1.248	0.081	1.00	21q21.1	1.43	6.6 *		
28	21 B	201.03	200.81	0.22	202	4851	10.0	48343	1.831	1.272	0.082	1.00	21q21.1	1.44	6.8 *		
33	21 B	245.56	245.33	0.23	247	3863	10.5	40515	1.535	1.048	0.048	1.40	21q11.2	1.46	10.1 *		
38	21 C	289.36	289.12	0.24	292	2862	10.9	31225	1.576	1.167	0.072	1.04	21q22.11	1.35	5.7 *		
42	21 C	337.56	337.42	0.14	337	2582	11.7	30307	1.530	1.008	0.094	0.69	21q21.3	1.52	5.6 *		
46	21 D	381.50	381.44	0.06	382	2729	12.1	33019	1.515	1.051	0.078	0.87	21q22.3	1.44	5.9 *		
50	21 D	424.81	424.65	0.16	427	2350	12.9	30397	1.395	1.005	0.083	0.78	21q22.11	1.39	4.7 *		
<b>Chromosome 21</b>					Mean	3622	11.0	38895	1.668	1.166	0.077	1.00	(CV: <b>0.03</b> )	<b>1.43</b>	<b>P= 0.000%</b>		
19	X A	153.06	152.75	0.31	154	1577	9.7	15309	0.623	0.624	0.047	1.17	Xq12	1.00	0.0	.	
26	X A	183.82	183.64	0.18	184	1175	9.6	11270	0.459	0.504	0.048	0.94	Xq23	0.91	-0.9	-	
31	X B	228.74	228.55	0.19	229	1747	10.3	17990	0.681	0.649	0.052	1.11	Xp21.3	1.05	0.6	.	
36	X B	271.84	271.57	0.27	274	1504	10.6	15898	0.602	0.666	0.054	1.10	Xp11.4	0.90	-1.2	-	
41	X C	318.06	317.74	0.32	319	973	12.1	11758	0.594	0.606	0.057	0.94	Xq28	0.98	-0.2	.	
45	X C	362.56	362.44	0.12	364	1335	11.7	15562	0.786	0.776	0.076	0.91	Xp22.12	1.01	0.1	.	
49	X D	407.95	407.76	0.19	409	944	12.8	12100	0.555	0.596	0.051	1.04	Xq25	0.93	-0.8	-	
53	X D	451.52	451.33	0.19	454	773	13.2	10186	0.467	0.467	0.053	0.79	Xp21.1	1.00	0.0	.	
<b>Chromosome X</b>					Mean	1254	11.2	13759	0.596	0.611	0.055	1.00	(CV: <b>0.05</b> )	<b>0.97</b>			
21	Y A	158.70	158.46	0.24	160	1341	9.5	12674	0.516	0.588	0.064	0.88	Yp11.31	0.88	-1.1	-	
27	Y A	191.85	191.66	0.19	193	1233	9.8	12097	0.492	0.446	0.070	0.61	Yp11.31	1.10	0.7	-	
32	Y B	238.23	238.00	0.23	238	1492	10.4	15498	0.587	0.629	0.074	0.82	Yq11.21	0.93	-0.6	-	
37	Y B	280.69	280.49	0.20	283	2080	10.4	21619	0.819	0.772	0.044	1.68	Yp11.3	1.06	1.1	-	
<b>Chromosome Y</b>					Mean	1537	10.0	15472	0.604	0.609	0.063	1.00	(CV: <b>0.10</b> )	<b>1.00</b>			
<b>Mean values</b>			0.21		2378	10.9	25521	<b>1.089</b>	1.000	0.074	2		1.07	Total of all except			
<b>Standard deviations</b>			0.08		(Coef. of variance:	0.429)	0.442	0.328					0.20	Ctrl and '?' peaks			

Quality assessment	Quality limits	Quality
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	5.45
Mean height of first probes AB	> 450 ( 800)	2760
Mean height of last probes CD	> 280 ( 500)	1877
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.47
Mean group CV of weighted ratio	<0.20 (0.15)	0.06
5 unidentified peak areas / 37 peak areas	< (0.02)	0.00

The weighted mean ratios are tested for being outside ratio  
1 ± 0.10 for chromosome 13, 18, 21 and female X  
1 ± 0.13 for male X and 1 ± 0.24 for Y.  
(One-tailed significance is high for p<=1%, and low for p<=5%)

**High significance P= 0.000%**

**Male Reference  
Trisomy 21**

An \*\*\* marks: Size Diff.>0.5, Peak Height>7000, unexpected peak width, and "Dist. in SD">4.0.  
Ratio group mean and coefficient of variance (CV) are weighted by the ref. weights  
Labels A,B,... define normalization groups; a,b,... labeled probes do not contribute to normalization.  
Mean Rox height is 311 (15 peaks). 100\*CV of ROX heights for peaks above 100 nt is: 7.23

Ratio 1.43 is found. Theoretically 'Trisomy 21' has ratio 1.5