

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 -	61.22	61.20	0.02	64	225	19.8	4458	0.919	0.897	0.243	0.68	64 nt	1.02	0.1	.
7	70 -	67.02	66.91	0.11	70	252	19.2	4829	0.995	0.751	0.145	0.96	70 nt	1.33	1.7	
8	76 -	72.62	72.54	0.08	76	293	23.3	6840	1.410	1.111	0.183	1.12	76 nt	1.27	1.6	
9	82 -	78.20	78.43	-0.23	82	240	13.7	3277	0.676	1.241	0.185	1.24	82 nt	0.54	-3.0	
Ctrl: Q-fragments					Mean	253	19.0	4851	1.000	1.000	0.189	1.00	(CV: 0.38)	1.02		
12	2 A	90.27	90.17	0.10	94	3808	10.4	39531	1.013	0.993	0.108	1.00	2q14 synt.	1.02	0.2	.
Synthetic control probe					Mean	3808	10.4	39531	1.013	0.993	0.108	1.00	(CV:)	1.02		
17	13 A	146.00	145.92	0.08	148	4818	10.2	49029	1.257	1.437	0.075	1.29	13q32.1	0.87	-2.4	.
22	13 A	177.37	177.35	0.02	178	3820	10.6	40613	1.041	0.990	0.072	0.92	13q13.3	1.05	0.7	.
27	13 B	218.87	218.82	0.05	220	4573	11.2	51184	1.208	1.332	0.076	1.18	13q14.2	0.91	-1.6	.
33	13 B	262.61	262.45	0.16	265	3261	11.6	37898	0.895	0.951	0.069	0.92	13q21.33	0.94	-0.8	.
38	13 C	309.90	309.93	-0.03	310	2626	12.7	33413	1.067	1.315	0.084	1.05	13q34	0.81	-3.0	.
42	13 C	355.31	355.19	0.12	355	2245	14.8	33201	1.060	1.209	0.069	1.18	13q13.1	0.88	-2.2	.
46	13 D	398.51	398.39	0.12	400	2861	14.7	42172	1.233	1.278	0.110	0.78	13q14.2	0.96	-0.4	.
50	13 D	442.96	442.59	0.37	445	2148	16.0	34394	1.005	0.990	0.097	0.68	13q34	1.02	0.2	.
Chromosome 13					Mean	3294	12.7	40238	1.096	1.188	0.081	1.00	(CV: 0.08)	0.92		
16	18 A	140.21	140.07	0.14	142	7642 *	10.7	82044	2.103	1.531	0.090	1.13	18q21.1	1.37	6.3 *	
21	18 A	170.84	170.78	0.06	172	5910	10.7	63058	1.617	1.112	0.083	0.90	18q21.32	1.45	6.1 *	
26	18 B	209.92	209.88	0.04	211	6533	11.1	72470	1.710	1.191	0.072	1.10	18q11.2	1.44	7.2 *	
32	18 B	252.95	252.77	0.18	256	7426 *	11.9	88033	2.078	1.489	0.074	1.35	18q23	1.40	8.0 *	
37	18 C	299.02	298.88	0.14	301	4395	12.9	56686	1.811	1.238	0.088	0.93	18p11.32	1.46	6.5 *	
41	18 C	346.18	346.18	0.00	346	2683	14.0	37560	1.200	0.680	0.058	0.79	18q21.33	1.76	9.0 *	
45	18 D	390.12	389.97	0.15	391	4485	14.6	65622	1.918	1.473	0.094	1.04	18q11.2	1.30	4.7 *	
49	18 D	434.04	433.86	0.18	436	3452	15.4	53199	1.555	1.140	0.099	0.76	18p11.21	1.36	4.2 *	
Chromosome 18					Mean	5316	12.7	64834	1.749	1.232	0.082	1.00	(CV: 0.09)	1.43		P= 0.008%
15	21 A	133.05	132.90	0.15	136	5125	10.9	55845	1.432	1.526	0.080	1.23	21q22.13	0.94	-1.2	.
20	21 A	164.70	164.56	0.14	166	4352	10.5	45616	1.169	1.248	0.081	1.00	21q21.1	0.94	-1.0	.
25	21 B	200.81	200.81	0.00	202	4654	11.0	51120	1.207	1.272	0.082	1.00	21q21.1	0.95	-0.8	.
31	21 B	245.40	245.33	0.07	247	3504	11.8	41415	0.978	1.048	0.048	1.40	21q11.2	0.93	-1.5	.
36	21 C	289.30	289.12	0.18	292	2797	12.4	34790	1.111	1.167	0.072	1.04	21q22.11	0.95	-0.8	.
40	21 C	337.32	337.42	-0.10	337	2249	13.5	30335	0.969	1.008	0.094	0.69	21q21.3	0.96	-0.4	.
44	21 D	381.48	381.44	0.04	382	2416	14.3	34471	1.007	1.051	0.078	0.87	21q22.3	0.96	-0.6	.
48	21 D	424.79	424.65	0.14	427	2006	15.6	31333	0.916	1.005	0.083	0.78	21q22.11	0.91	-1.1	.
Chromosome 21					Mean	3388	12.5	40616	1.099	1.166	0.077	1.00	(CV: 0.02)	0.94		
18	X A	152.88	152.75	0.13	154	2438	10.4	25297	0.649	0.624	0.047	1.17	Xq12	1.04	0.5	.
23	X A	183.71	183.64	0.07	184	1825	10.8	19644	0.504	0.504	0.048	0.94	Xq23	1.00	0.0	.
28	X B	228.64	228.55	0.09	229	2503	11.3	28354	0.669	0.649	0.052	1.11	Xp21.3	1.03	0.4	.
34	X B	271.66	271.57	0.09	274	2328	11.8	27517	0.649	0.666	0.054	1.10	Xp11.4	0.97	-0.3	.
39	X C	317.84	317.74	0.10	319	1420	14.2	20178	0.644	0.606	0.057	0.94	Xq28	1.06	0.7	.
43	X C	362.50	362.44	0.06	364	1770	13.7	24210	0.773	0.776	0.076	0.91	Xp22.12	1.00	0.0	.
47	X D	407.97	407.76	0.21	409	1121	15.3	17173	0.502	0.596	0.051	1.04	Xq25	0.84	-1.8	.
51	X D	451.54	451.33	0.21	454	1065	16.1	17101	0.500	0.467	0.053	0.79	Xp21.1	1.07	0.6	.
Chromosome X					Mean	1809	12.9	22434	0.611	0.611	0.055	1.00	(CV: 0.07)	1.00		
19	Y A	158.50	158.46	0.04	160	2157	10.9	23525	0.603	0.588	0.064	0.88	Yp11.31	1.02	0.2	.
24	Y A	191.71	191.66	0.05	193	1766	10.7	18970	0.486	0.446	0.070	0.61	Yp11.31	1.09	0.6	.
30	Y B	238.08	238.00	0.08	238	2262	11.5	26046	0.615	0.629	0.074	0.82	Yq11.21	0.98	-0.2	.
35	Y B	280.53	280.49	0.04	283	2749	12.1	33305	0.786	0.772	0.044	1.68	Yp11.3	1.02	0.3	.
Chromosome Y					Mean	2234	11.3	25462	0.623	0.609	0.063	1.00	(CV: 0.04)	1.02		
Mean values				0.10		3330	12.5	40172	1.079	1.000	0.074	2		1.07	Total of all except	
Standard deviations				0.08		(Coef. of variance:	0.441)		0.448	0.328				0.21	Ctrl and '?' peaks	

Quality assessment	Quality limits	Quality
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	8.04
Mean height of first probes AB	> 450 (800)	3974
Mean height of last probes CD	> 280 (500)	2484
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.60
Mean group CV of weighted ratio	<0.20 (0.15)	0.06
3 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= 0.008%

Male Reference

Trisomy 18

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 184 (15 peaks). 100*CV of ROX heights for peaks above 100 nt is: 5.30

Ratio 1.43 is found. Theoretically 'Trisomy 18' has ratio 1.5