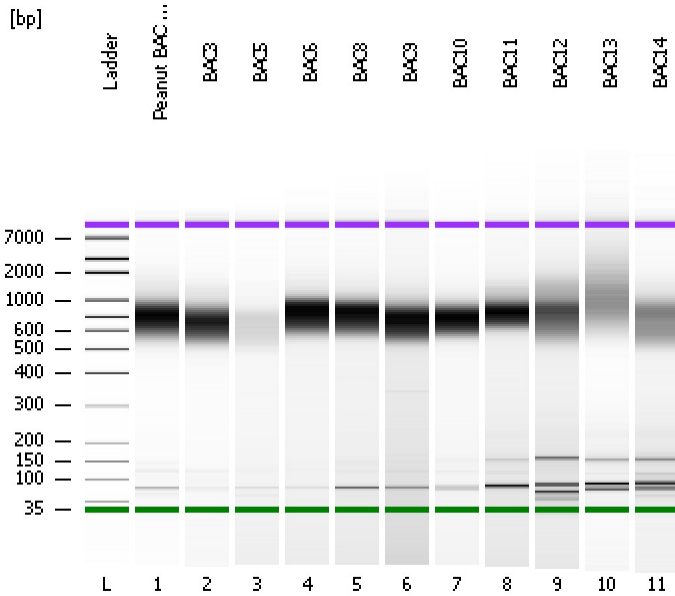


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
Modified: 3/17/2014 3:14:20 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

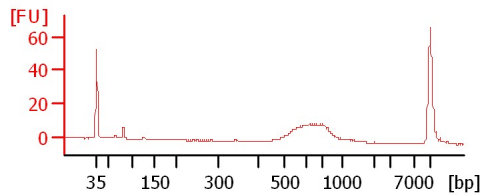
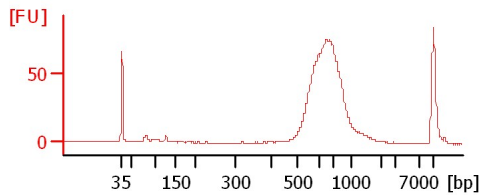
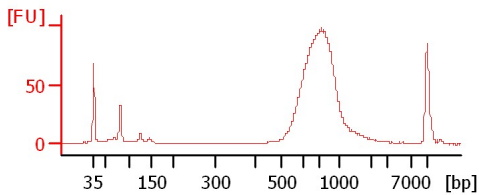
Chip Information:

Chip Lot #: Reagent Kit Lot #: Chip Comments:

Peanut BAC pool

BAC3

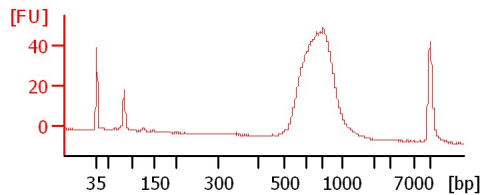
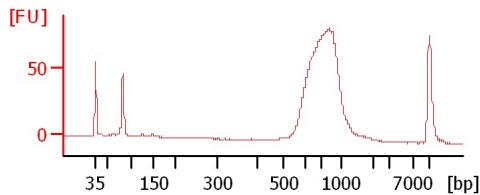
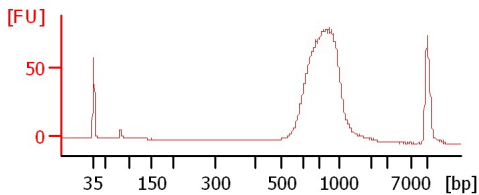
BAC5



BAC6

BAC8

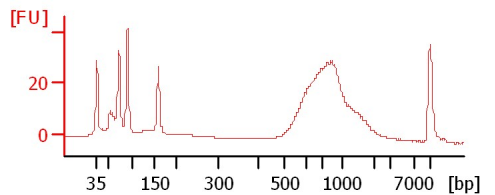
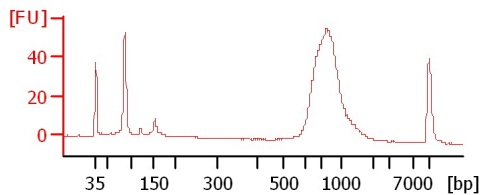
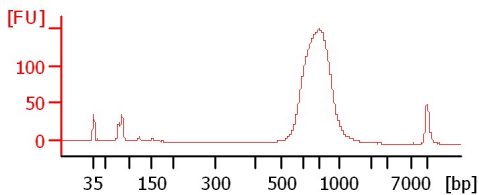
BAC9



BAC10

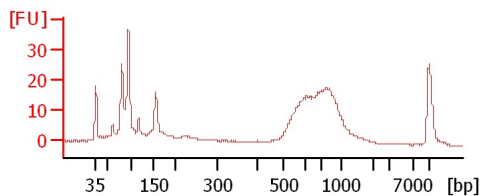
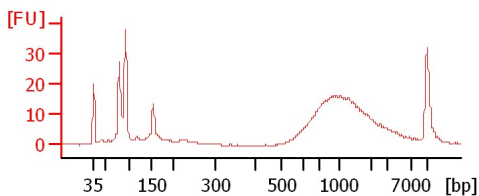
BAC11

BAC12



BAC13

BAC14



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Peanut BAC pool		<input type="checkbox"/>	✓			
BAC3		<input type="checkbox"/>	✓			
BAC5		<input type="checkbox"/>	✓			
BAC6		<input type="checkbox"/>	✓			
BAC8		<input type="checkbox"/>	✓			
BAC9		<input type="checkbox"/>	✓			
BAC10		<input type="checkbox"/>	✓			
BAC11		<input type="checkbox"/>	✓			
BAC12		<input type="checkbox"/>	✓			
BAC13		<input type="checkbox"/>	✓			
BAC14		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
Modified: 3/17/2014 3:14:20 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

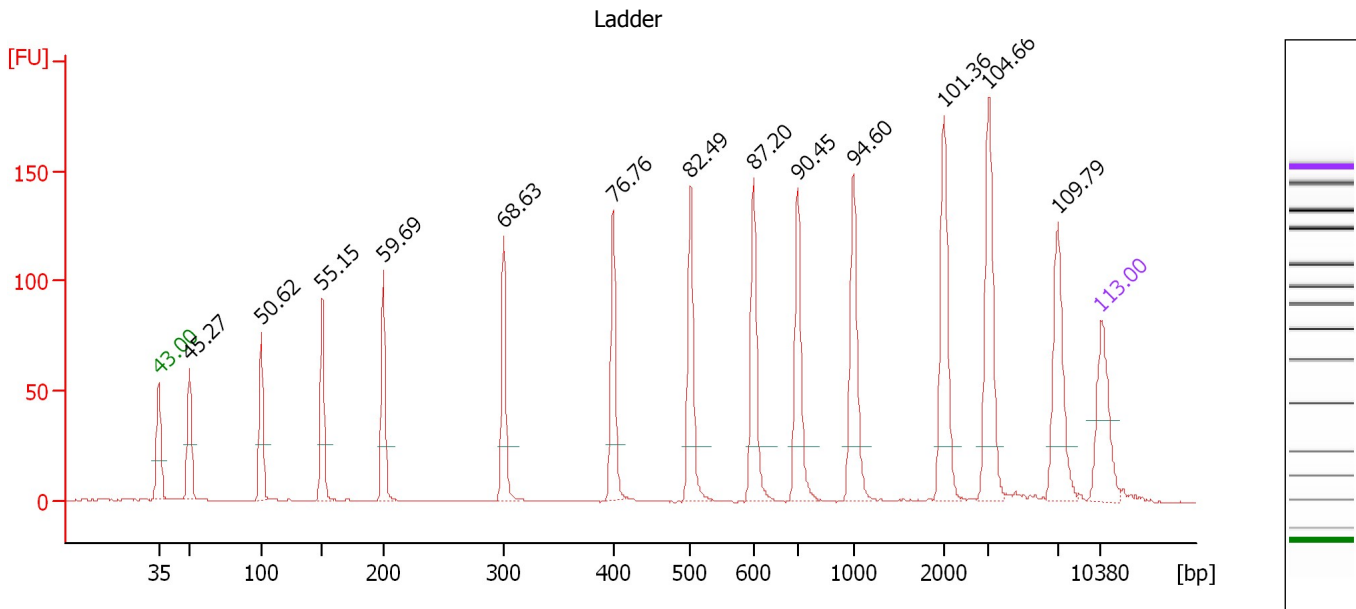
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

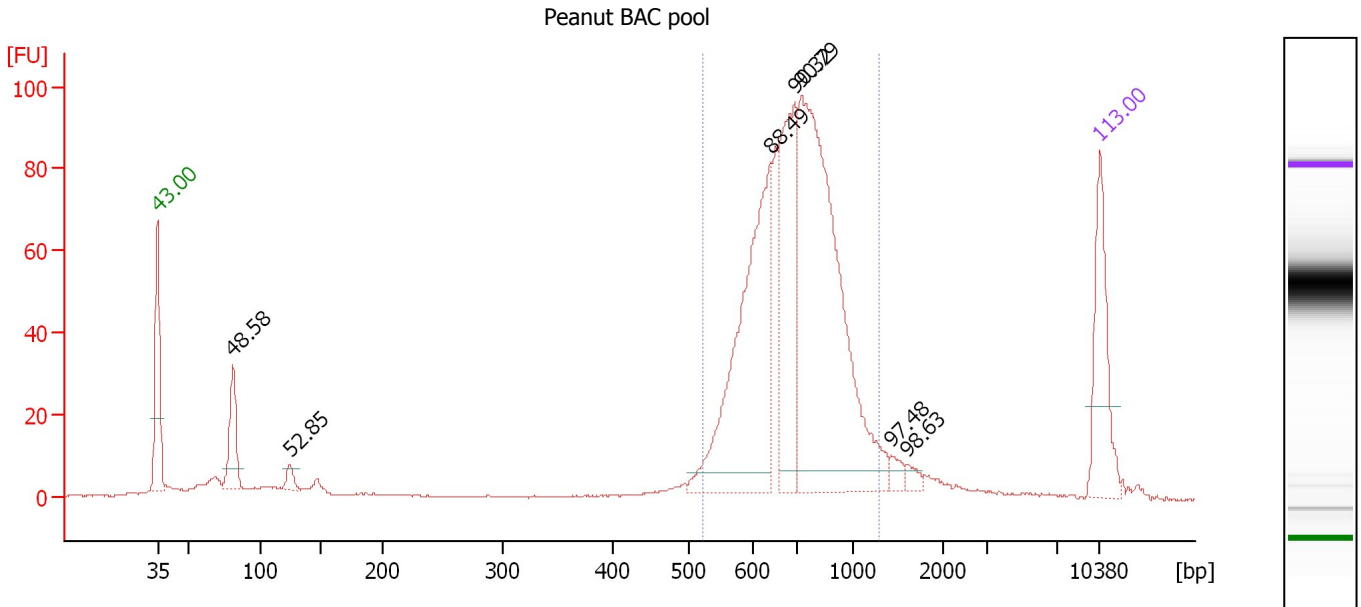
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.27	50	150.00	4,545.5	Ladder Peak
3	50.62	100	150.00	2,272.7	Ladder Peak
4	55.15	150	150.00	1,515.2	Ladder Peak
5	59.69	200	150.00	1,136.4	Ladder Peak
6	68.63	300	150.00	757.6	Ladder Peak
7	76.76	400	150.00	568.2	Ladder Peak
8	82.49	500	150.00	454.5	Ladder Peak
9	87.20	600	150.00	378.8	Ladder Peak
10	90.45	700	150.00	324.7	Ladder Peak
11	94.60	1,000	150.00	227.3	Ladder Peak
12	101.36	2,000	150.00	113.6	Ladder Peak
13	104.66	3,000	150.00	75.8	Ladder Peak
14	109.79	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Peanut BAC pool

Number of peaks found: 7 Corr. Area 1: 835.8
 Noise: 0.2

Peak table for sample 1 : Peanut BAC pool

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.58	81	72.56	1,357.1	
3	52.85	125	13.12	159.5	
4	88.49	640	304.02	720.2	
5	90.32	696	186.33	405.6	
6	90.79	724	472.99	989.2	
7	97.48	1,426	9.27	9.8	
8	98.63	1,596	6.62	6.3	
9	113.00	10,380	75.00	10.9	Upper Marker

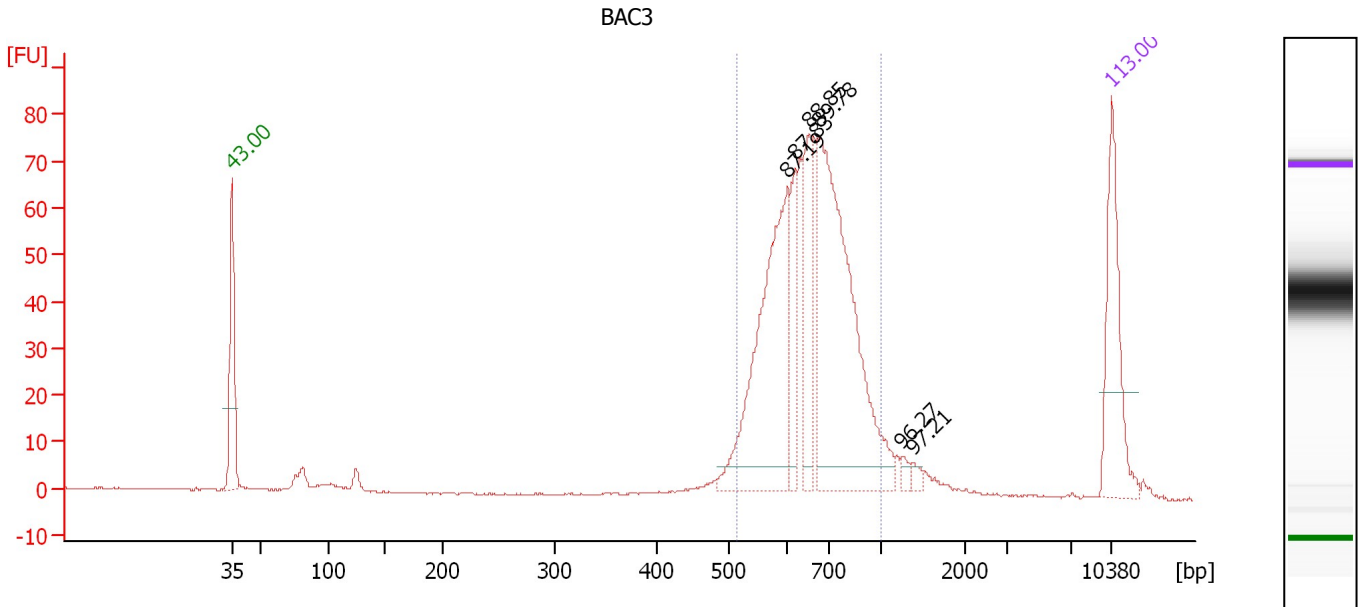
Region table for sample 1 : Peanut BAC pool

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
522	1,285	739	2,132.5	999.96	835.8	80	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BAC3

Number of peaks found: 6 Corr. Area 1: 654.4
 Noise: 0.2

Peak table for sample 2 : BAC3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	87.19	600	221.96	560.7	
3	87.83	619	47.61	116.5	
4	88.85	651	81.79	190.5	
5	89.78	679	314.40	701.2	
6	96.27	1,248	5.24	6.4	
7	97.21	1,386	4.77	5.2	
8	113.00	10,380	75.00	10.9	Upper Marker

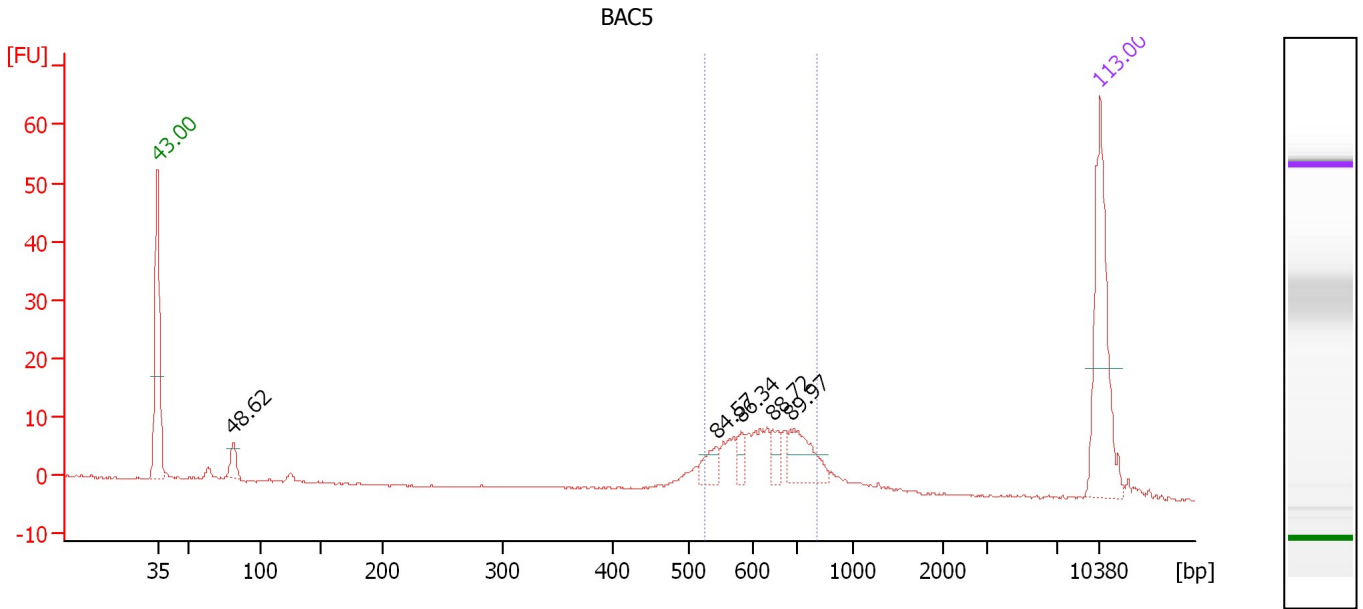
Region table for sample 2 : BAC3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
513	1,000	674	1,678.8	729.04	654.4	88	15.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BAC5

Number of peaks found: 5 Corr. Area 1: 89.7
 Noise: 0.2

Peak table for sample 3 : BAC5

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.62	81	15.77	293.9	
3	84.57	544	15.58	43.4	
4	86.34	582	9.77	25.5	
5	88.72	647	10.69	25.1	
6	89.97	685	34.94	77.3	
7	113.00	10,380	75.00	10.9	Upper Marker

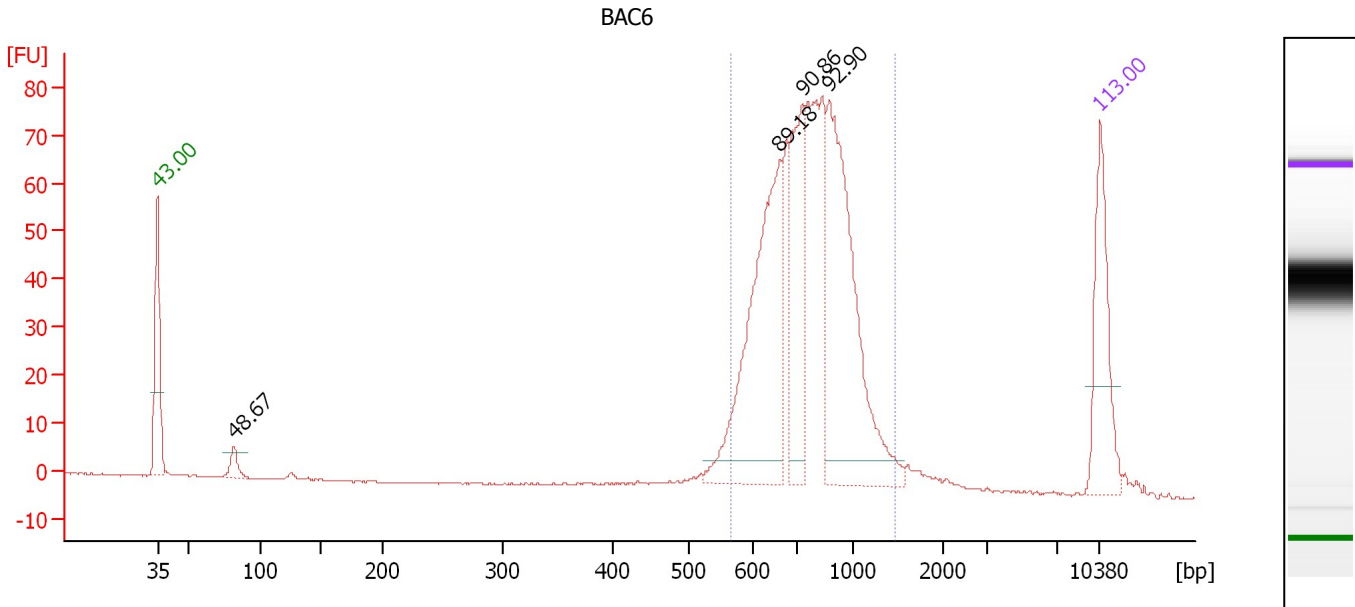
Region table for sample 3 : BAC5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
523	815	634	323.9	133.76	89.7	67	11.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BAC6

Number of peaks found: 4 Corr. Area 1: 692.3
 Noise: 0.1

Peak table for sample 4 : BAC6

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.67	82	17.42	322.8	
3	89.18	661	256.71	588.5	
4	90.86	730	122.80	255.0	
5	92.90	877	253.67	438.3	
6	113.00	10,380	75.00	10.9	Upper Marker

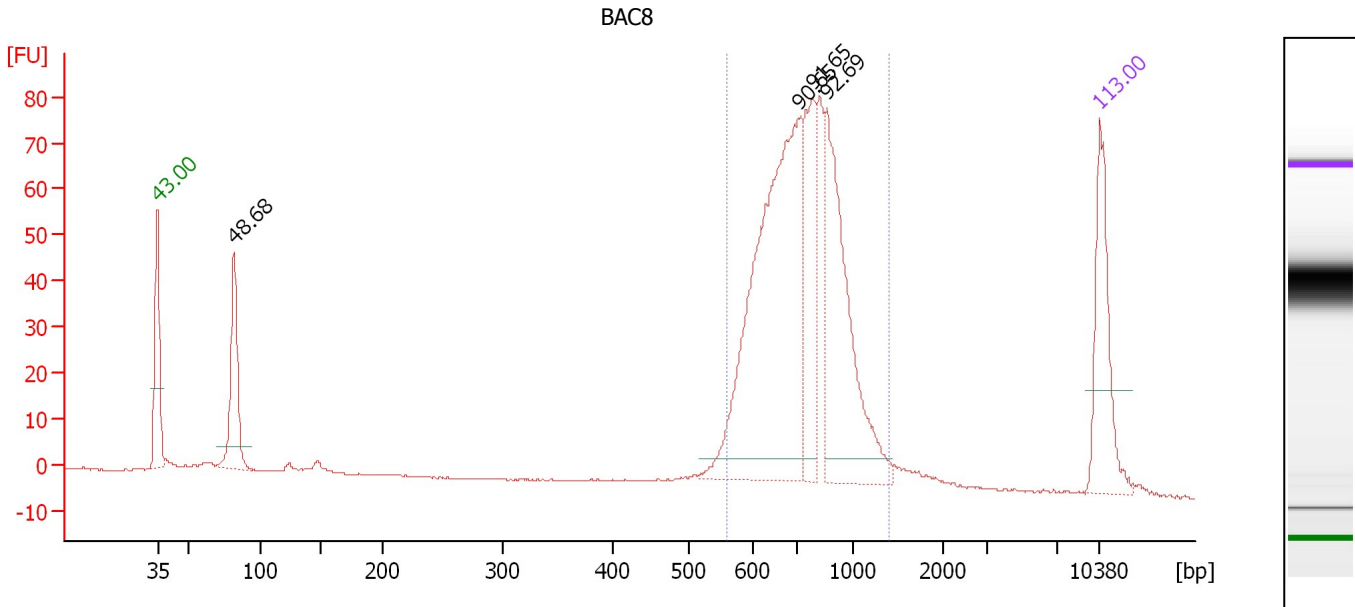
Region table for sample 4 : BAC6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
566	1,473	794	1,670.1	836.52	692.3	91	21.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BAC8

Number of peaks found: 4 Corr. Area 1: 678.3
 Noise: 0.2

Peak table for sample 5 : BAC8

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.68	82	109.33	2,023.1	
3	90.65	714	410.26	870.1	
4	91.65	787	104.97	202.2	
5	92.69	862	202.26	355.4	
6	113.00	10,380	75.00	10.9	Upper Marker

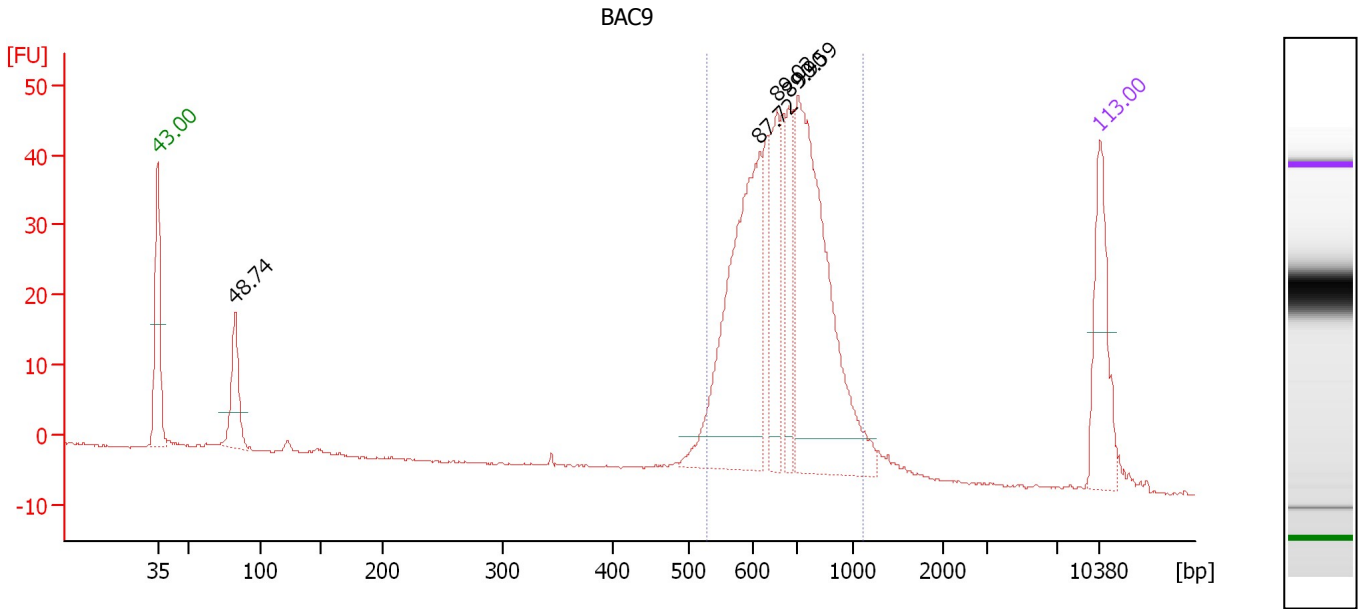
Region table for sample 5 : BAC8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
559	1,396	769	1,612.0	786.40	678.3	82	20.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : BAC9

Number of peaks found: 5 Corr. Area 1: 448.7
 Noise: 0.2

Peak table for sample 6 : BAC9

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.74	82	77.89	1,431.0	
3	87.72	616	284.20	699.0	
4	89.02	656	95.43	220.4	
5	89.90	683	68.01	150.9	
6	90.59	710	343.42	732.6	
7	113.00	10,380	75.00	10.9	Upper Marker

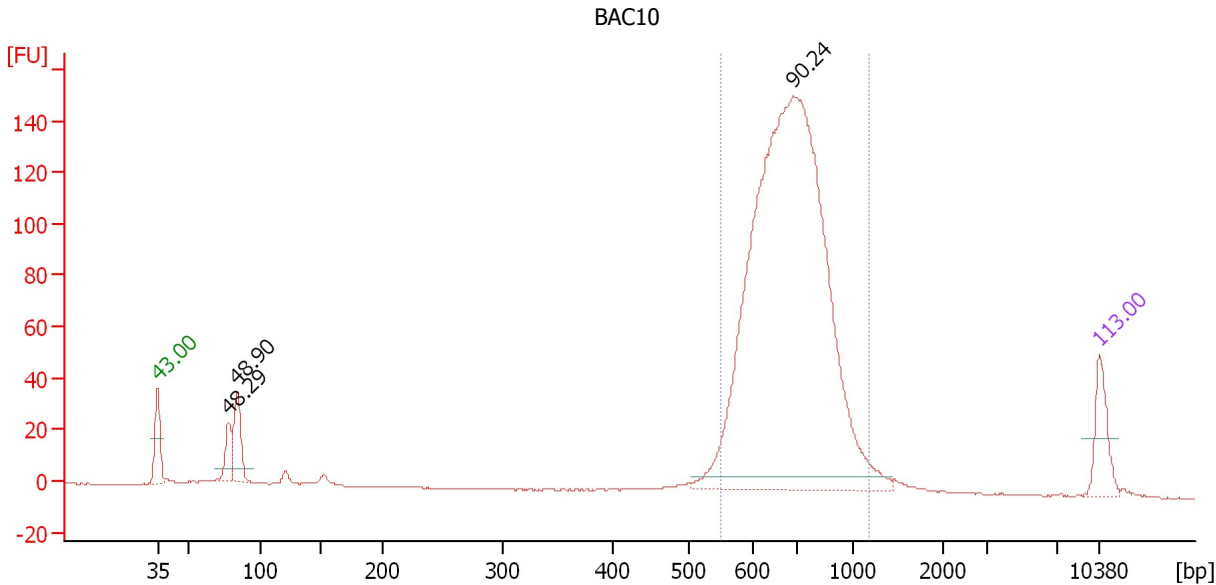
Region table for sample 6 : BAC9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
529	1,126	696	1,927.2	860.16	448.7	87	17.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BAC10

Number of peaks found: 3 Corr. Area 1: 1,107.2
 Noise: 0.2

Peak table for sample 7 : BAC10

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.29	78	76.56	1,483.0	
3	48.90	84	125.66	2,266.6	
4	90.24	693	2,226.54	4,864.9	
5	113.00	10,380	75.00	10.9	Upper Marker

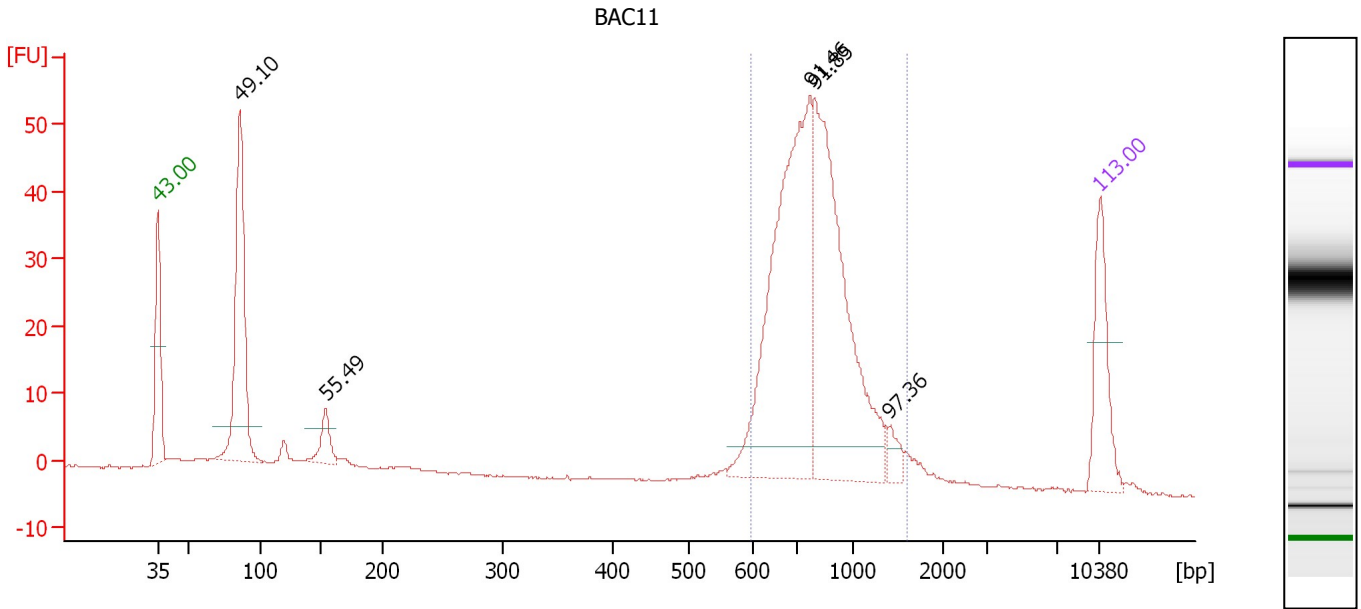
Region table for sample 7 : BAC10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
549	1,183	715	4,627.9	2,130.73	1,107.2	86	16.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BAC11

Number of peaks found: 5 Corr. Area 1: 377.9
 Noise: 0.1

Peak table for sample 8 : BAC11

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	49.10	86	289.28	5,107.1	
3	55.49	154	37.85	373.0	
4	91.46	773	452.58	887.4	
5	91.85	801	378.21	715.6	
6	97.36	1,409	16.13	17.3	
7	113.00	10,380	75.00	10.9	Upper Marker

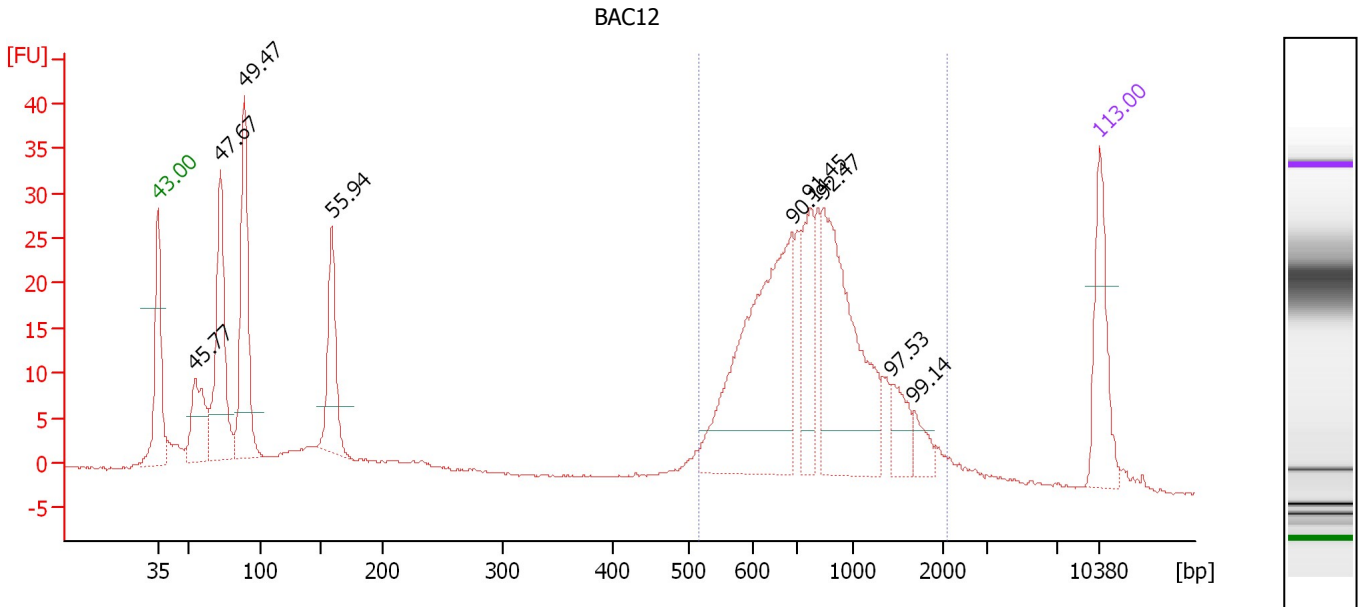
Region table for sample 8 : BAC11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
597	1,598	828	1,636.2	852.42	377.9	70	23.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BAC12

Number of peaks found: 9 Corr. Area 1: 332.2
 Noise: 0.1

Peak table for sample 9 : BAC12

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.77	55	101.48	2,809.8	
3	47.67	72	218.18	4,562.4	
4	49.47	89	230.41	3,910.2	
5	55.94	159	122.38	1,168.5	
6	90.14	690	351.09	770.6	
7	91.45	772	88.62	173.9	
8	92.47	846	249.57	446.9	
9	97.53	1,433	34.20	36.2	
10	99.14	1,671	20.08	18.2	
11	113.00	10,380	75.00	10.9	Upper Marker

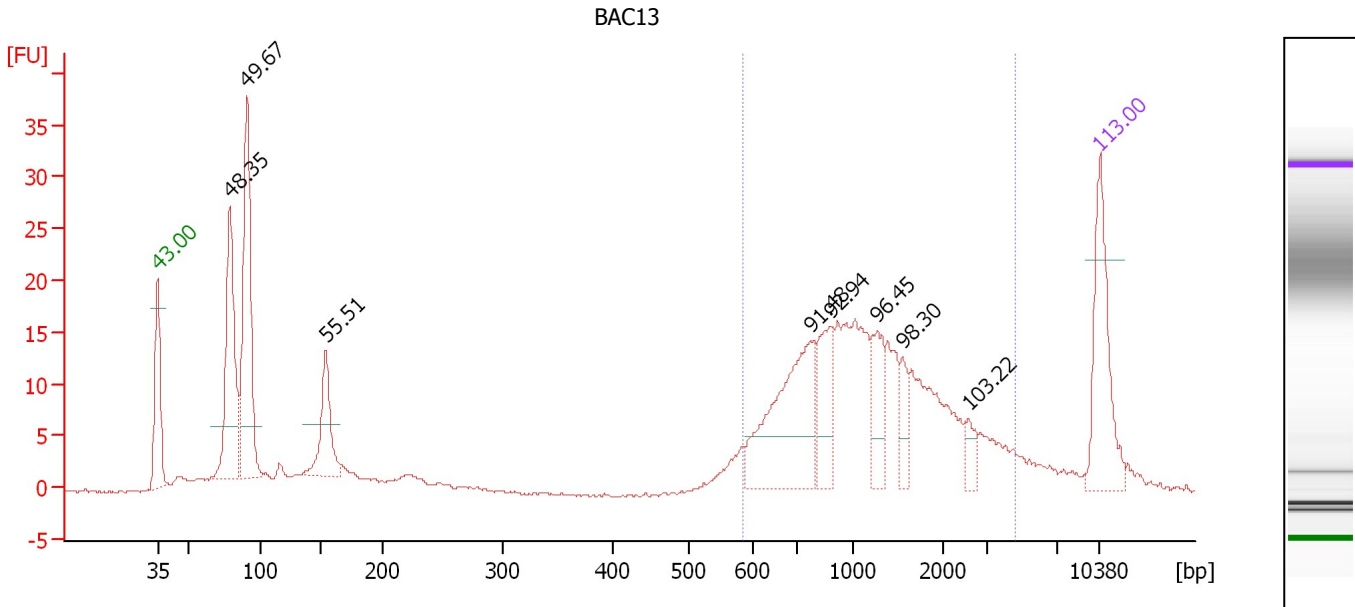
Region table for sample 9 : BAC12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
515	2,104	883	1,773.1	910.61	332.2	57	38.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : BAC13

Number of peaks found: 8 Corr. Area 1: 218.8
 Noise: 0.1

Peak table for sample 10 : BAC13

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.35	79	174.86	3,359.7	
3	49.67	91	214.07	3,558.5	
4	55.51	154	73.92	727.5	
5	91.48	775	150.03	293.4	
6	92.94	880	57.65	99.2	
7	96.45	1,273	40.56	48.3	
8	98.30	1,547	20.12	19.7	
9	103.22	2,563	13.32	7.9	
10	113.00	10,380	75.00	10.9	Upper Marker

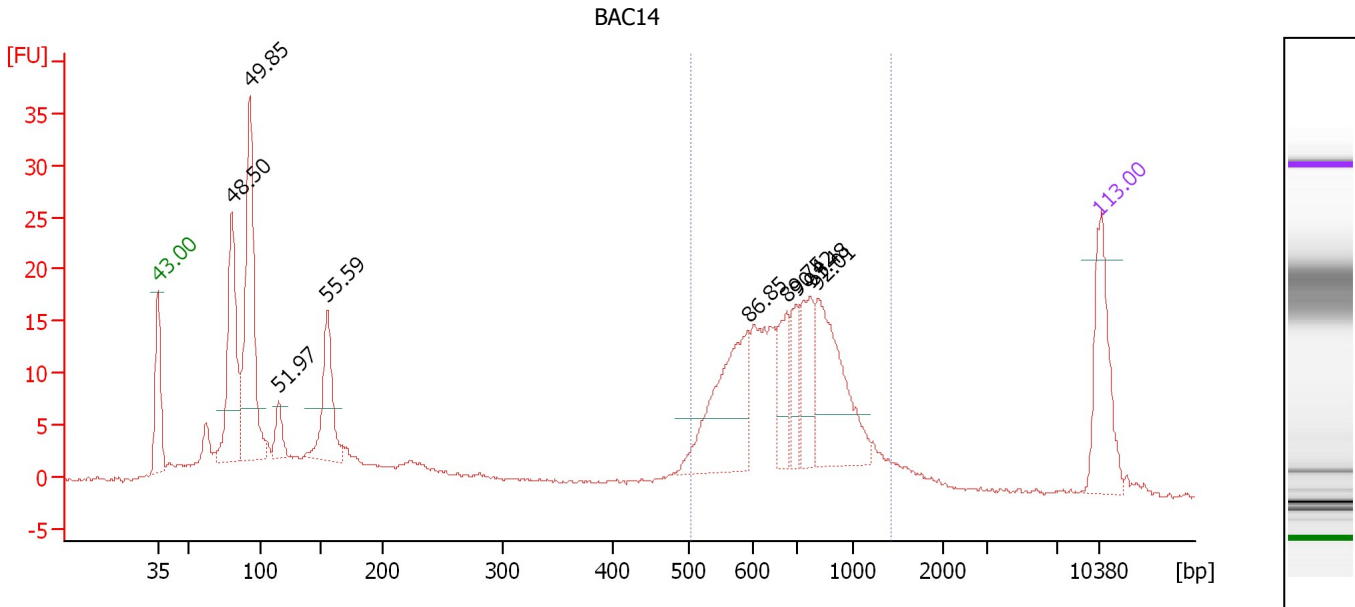
Region table for sample 10 : BAC13

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
586	4,546	1,360	833.7	575.10	218.8	57	55.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-17\2014-03-17_003.xad

Created: 3/17/2014 2:32:50 PM
 Modified: 3/17/2014 3:14:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BAC14

Number of peaks found: 9 Corr. Area 1: 195.6
 Noise: 0.2

Peak table for sample 11 : BAC14

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.50	80	191.79	3,622.7	
3	49.85	93	257.91	4,208.9	
4	51.97	115	29.08	383.3	
5	55.59	155	104.77	1,025.2	
6	86.85	593	145.11	371.0	
7	89.75	678	41.19	92.0	
8	90.42	699	36.10	78.2	
9	91.48	775	60.59	118.5	
10	92.01	813	131.37	244.8	
11	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : BAC14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
502	1,418	733	1,425.6	649.65	195.6	46	24.7