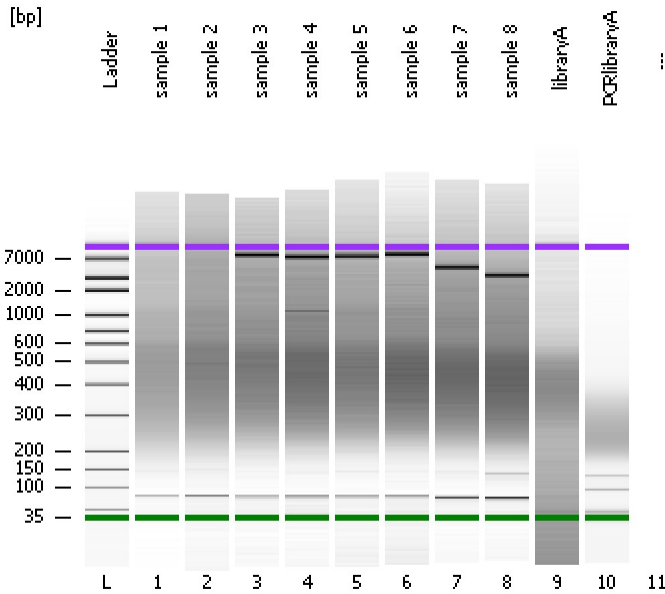


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
Modified: 3/16/2016 4:31:37 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

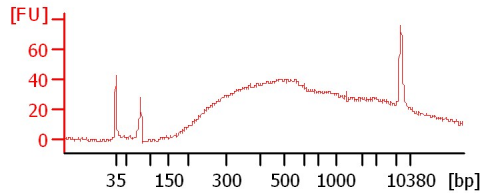
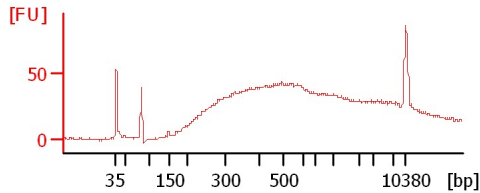
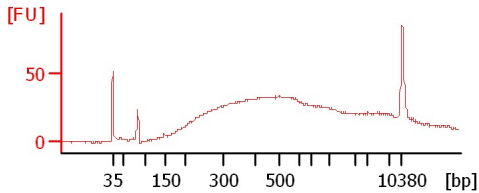
Chip Information:

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

sample 1

sample 2

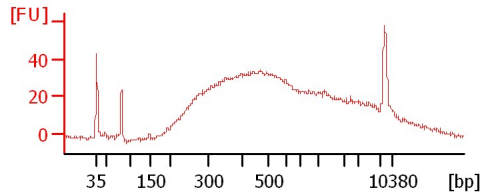
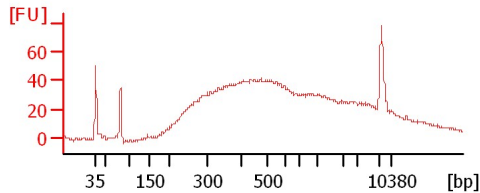
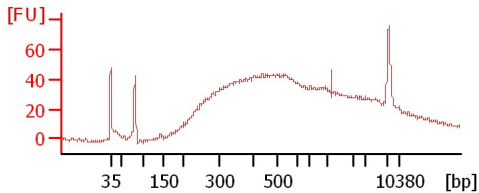
sample 3



sample 4

sample 5

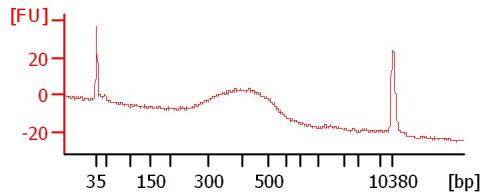
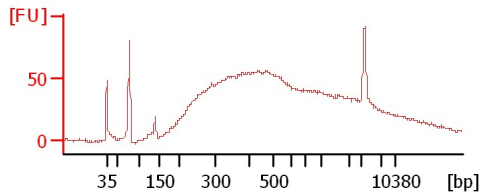
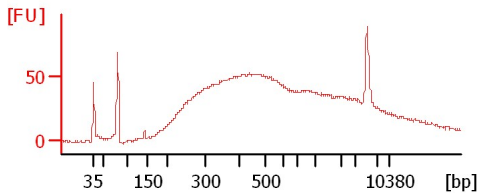
sample 6



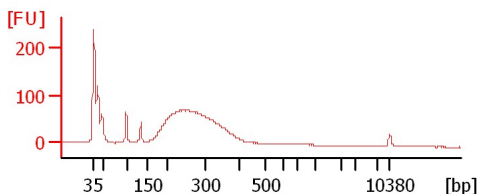
sample 7

sample 8

libraryA



PCRlibraryA



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
libraryA		<input type="checkbox"/>	✓			
PCRlibraryA		<input type="checkbox"/>	✓			
---		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
Modified: 3/16/2016 4:31:37 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

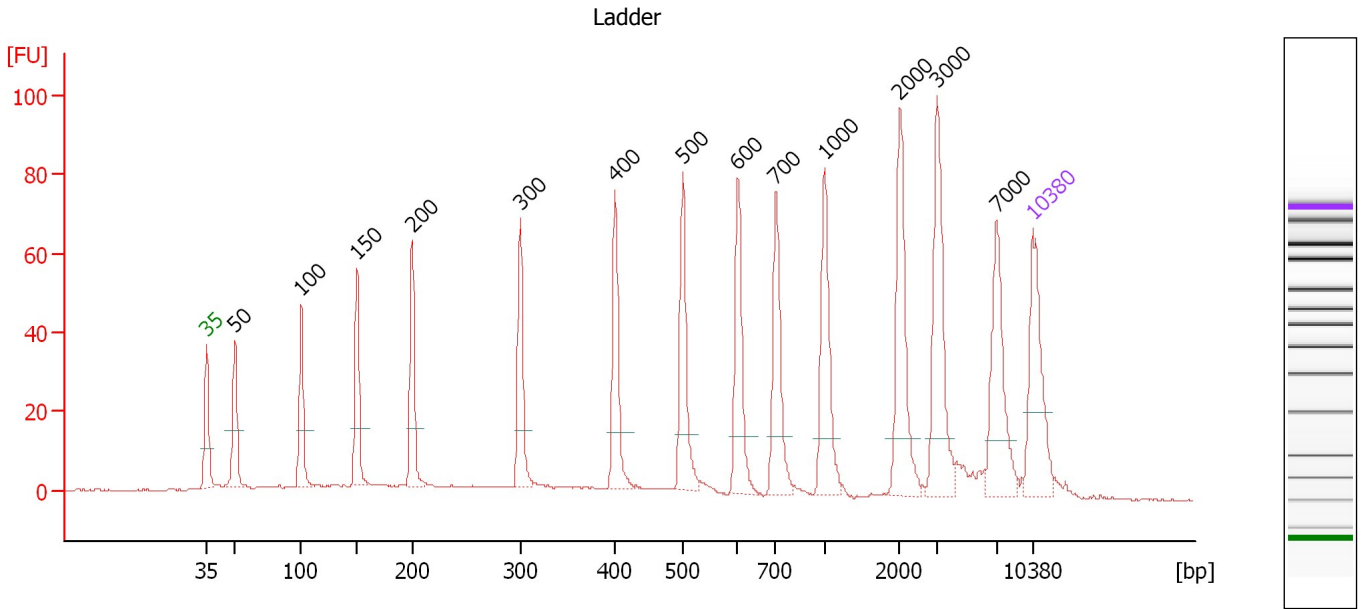
**Ladder**

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:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

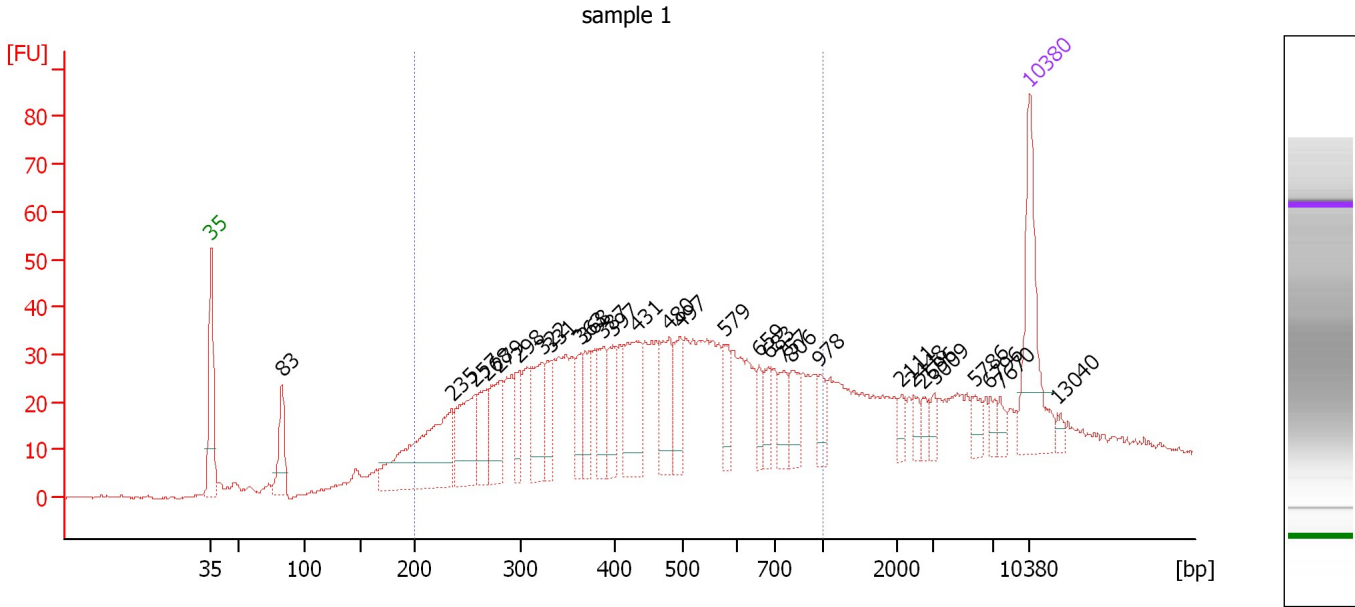
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.40
3	100	150.00	2,272.7	Ladder Peak	51.00
4	150	150.00	1,515.2	Ladder Peak	55.74
5	200	150.00	1,136.4	Ladder Peak	60.40
6	300	150.00	757.6	Ladder Peak	69.57
7	400	150.00	568.2	Ladder Peak	77.62
8	500	150.00	454.5	Ladder Peak	83.36
9	600	150.00	378.8	Ladder Peak	88.01
10	700	150.00	324.7	Ladder Peak	91.22
11	1,000	150.00	227.3	Ladder Peak	95.38
12	2,000	150.00	113.6	Ladder Peak	101.75
13	3,000	150.00	75.8	Ladder Peak	104.87
14	7,000	150.00	32.5	Ladder Peak	109.93
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 29                      Corr. Area 1: 1,018.9  
 Noise: 0.2

**Peak table for sample 1 : sample 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	83	54.18	991.6		49.07
3	235	161.73	1,041.9		63.63
4	257	83.79	493.8		65.63
5	268	40.09	227.0		66.59
6	279	63.53	344.4		67.69
7	298	30.16	153.4		69.38
8	322	62.29	293.1		71.34
9	331	35.05	160.4		72.07
10	363	29.27	122.3		74.62
11	368	36.07	148.6		75.03
12	387	42.05	164.5		76.59
13	397	36.99	141.0		77.41
14	431	73.81	259.8		79.37
15	480	51.99	164.2		82.20
16	497	37.14	113.3		83.16
17	579	29.02	75.9		87.04
18	659	17.50	40.2		89.91
19	683	20.13	44.6		90.69
20	757	23.64	47.3		92.01
21	806	26.33	49.5		92.69
22	978	17.26	26.7		95.07
23	2,111	8.99	6.5		102.09
24	2,448	8.63	5.3		103.14
25	2,696	8.96	5.0		103.92

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,009	7.93	4.0		104.88
27	5,786	12.71	3.3		108.39
28	6,796	8.14	1.8		109.67
29	7,670	7.69	1.5		110.54
30	10,380	75.00	10.9	Upper Marker	113.00
31	13,040	0.00	0.0		115.42

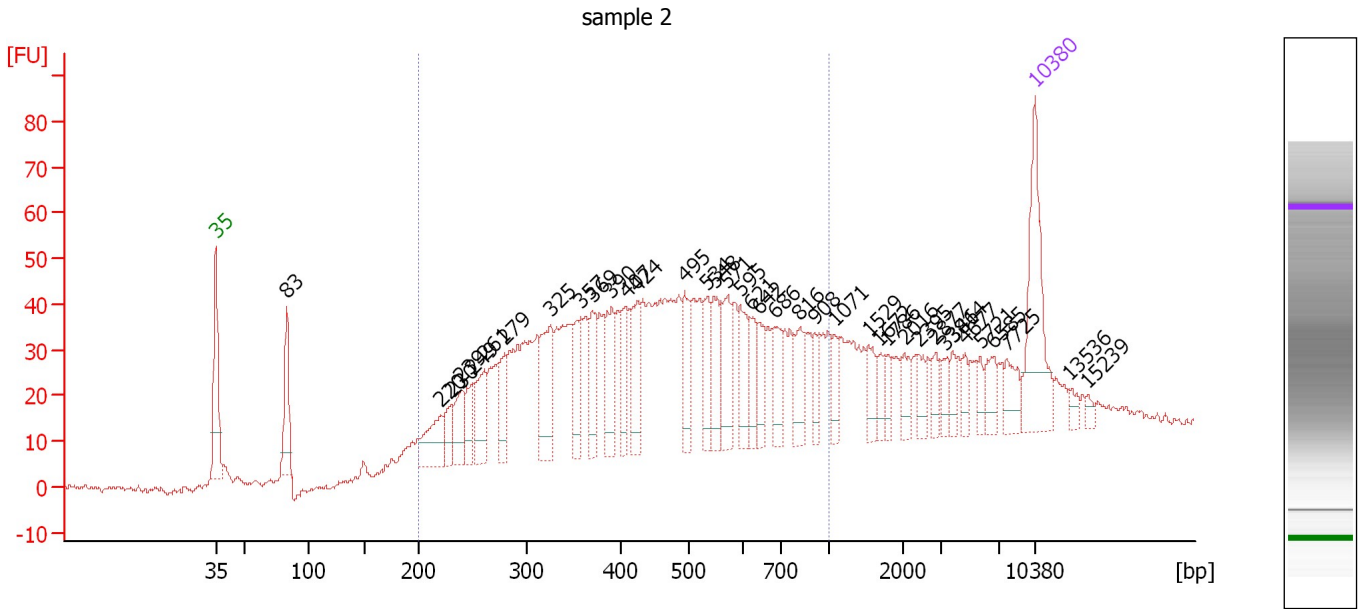
#### Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	463	1,018.9	5,617.2	1,398.73	76	39.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 38                      Corr. Area 1: 1,176.3  
 Noise: 0.8

**Peak table for sample 2 : sample 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	83	65.50	1,200.3		49.06
3	220	48.75	335.2		62.26
4	230	24.72	162.6		63.18
5	239	34.46	218.3		64.00
6	249	30.04	182.7		64.91
7	261	41.41	240.8		65.95
8	279	39.95	216.6		67.68
9	325	67.34	313.7		71.60
10	357	43.59	184.7		74.20
11	369	41.65	170.8		75.15
12	390	50.01	194.4		76.79
13	407	32.31	120.2		78.02
14	424	47.52	169.9		78.98
15	495	41.22	126.1		83.08
16	534	36.13	102.5		84.95
17	548	39.53	109.3		85.58
18	571	44.47	117.9		86.68
19	595	37.42	95.3		87.77
20	621	24.57	60.0		88.68
21	642	25.06	59.1		89.36
22	686	30.90	68.2		90.77
23	816	27.78	51.6		92.82
24	908	17.35	29.0		94.10
25	1,071	15.87	22.4		95.83

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : sample 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,529	18.10	17.9		98.74
27	1,672	12.19	11.1		99.66
28	1,786	10.92	9.3		100.38
29	2,016	14.93	11.2		101.80
30	2,395	13.79	8.7		102.98
31	2,877	11.35	6.0		104.48
32	3,346	10.90	4.9		105.30
33	3,814	11.97	4.8		105.90
34	4,677	9.34	3.0		106.99
35	5,721	8.69	2.3		108.31
36	6,585	16.87	3.9		109.40
37	7,725	18.75	3.7		110.59
38	10,380	75.00	10.9	Upper Marker	113.00
39	13,536	0.00	0.0		115.87
40	15,239	0.00	0.0		117.42

**Region table for sample 2 : sample 2**

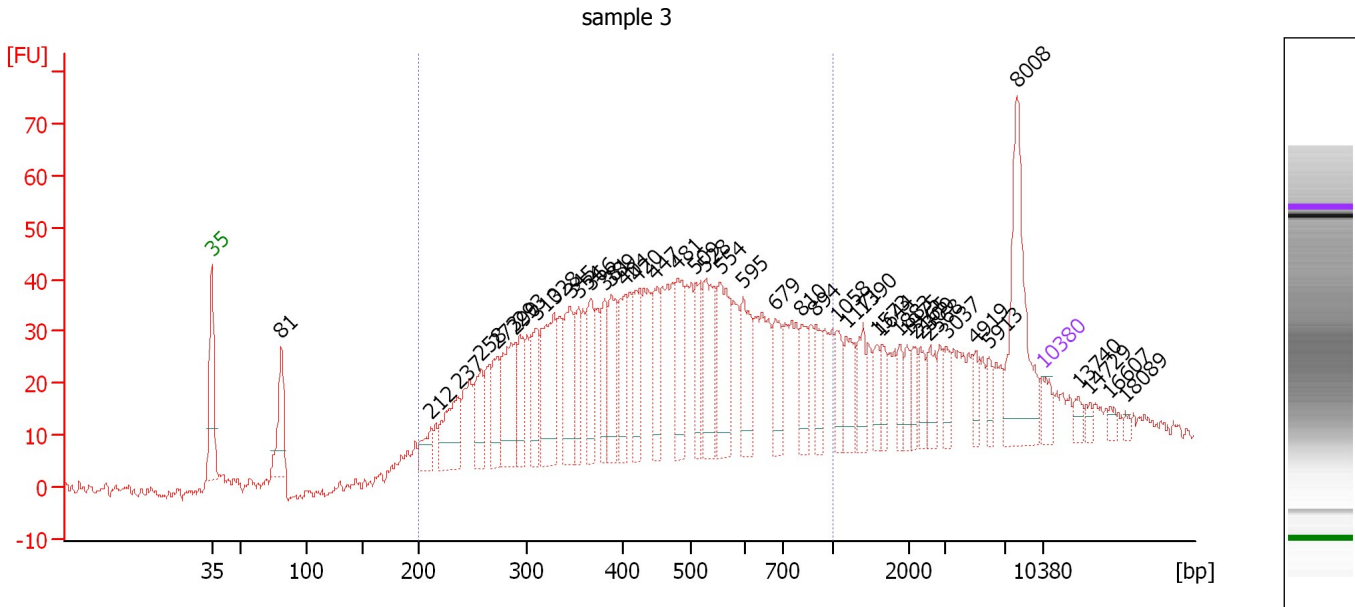
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	471	1,176.3	6,178.5	1,578.67	76	38.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 43                      Corr. Area 1: 1,177.5  
 Noise: 1.2

**Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	404.71	7,556.7		48.89
3	212	155.15	1,110.8		61.47
4	237	381.34	2,436.9		63.80
5	258	257.77	1,512.8		65.73
6	273	258.79	1,437.0		67.08
7	290	464.97	2,433.4		68.61
8	293	224.21	1,157.7		68.97
9	310	311.18	1,519.1		70.41
10	328	559.77	2,583.8		71.84
11	345	396.49	1,741.2		73.19
12	354	231.57	991.3		73.91
13	366	305.21	1,262.7		74.90
14	381	227.02	902.1		76.11
15	389	316.78	1,235.2		76.70
16	404	258.06	968.9		77.82
17	420	264.70	954.9		78.76
18	447	257.86	873.3		80.34
19	481	314.91	991.8		82.27
20	509	235.56	701.9		83.75
21	528	356.12	1,022.3		84.65
22	554	404.82	1,107.4		85.86
23	595	321.98	819.4		87.79
24	679	212.56	474.5		90.54
25	810	172.03	322.0		92.74

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	894	142.21	241.0		93.91
27	1,058	123.45	176.7		95.75
28	1,171	153.46	198.5		96.47
29	1,390	134.07	146.2		97.86
30	1,573	92.32	88.9		99.03
31	1,644	90.12	83.1		99.48
32	1,883	78.39	63.1		101.00
33	1,975	77.13	59.2		101.59
34	2,165	77.14	54.0		102.26
35	2,309	79.64	52.3		102.71
36	2,568	100.16	59.1		103.52
37	3,037	73.26	36.5		104.91
38	4,919	67.29	20.7		107.29
39	5,913	61.94	15.9		108.55
40	8,008	573.38	108.5		110.84
41	10,380	75.00	10.9	Upper Marker	113.00
42	13,740	0.00	0.0		116.06
43	14,729	0.00	0.0		116.95
44	16,607	0.00	0.0		118.66
45	18,089	0.00	0.0		120.01

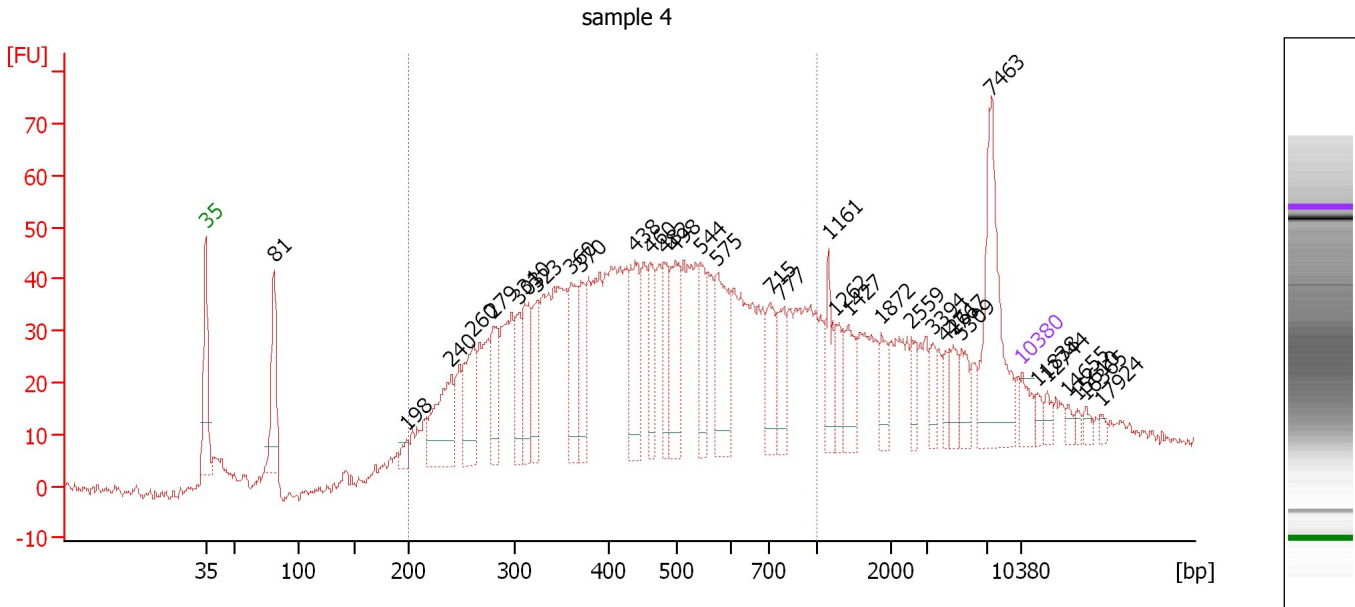
**Region table for sample 3 : sample 3**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	472	1,177.5	43,387.1	11,113.23	73	38.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 34                      Corr. Area 1: 1,354.1  
 Noise: 1.0

**Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	474.01	8,883.2		48.85
3	198	68.17	522.2		60.19
4	240	471.82	2,977.3		64.08
5	260	363.59	2,118.5		65.91
6	279	291.62	1,581.0		67.69
7	303	220.52	1,101.6		69.84
8	310	315.47	1,541.2		70.39
9	323	260.40	1,222.9		71.39
10	360	316.24	1,332.5		74.37
11	370	242.03	991.6		75.19
12	438	391.09	1,352.4		79.81
13	460	234.26	770.8		81.09
14	482	230.71	725.3		82.32
15	498	358.97	1,092.4		83.24
16	544	208.94	582.4		85.38
17	575	402.82	1,061.4		86.85
18	715	212.57	450.8		91.42
19	777	190.73	371.8		92.29
20	1,161	152.26	198.7		96.40
21	1,262	102.90	123.6		97.04
22	1,427	183.45	194.8		98.09
23	1,872	103.41	83.7		100.93
24	2,559	76.04	45.0		103.49
25	3,394	71.06	31.7		105.36

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,261	61.58	21.9		106.46
27	4,767	82.80	26.3		107.10
28	5,309	94.28	26.9		107.79
29	7,463	531.36	107.9		110.35
30	10,380	75.00	10.9	Upper Marker	113.00
31	11,838	0.00	0.0		114.33
32	12,744	0.00	0.0		115.15
33	14,655	0.00	0.0		116.89
34	15,610	0.00	0.0		117.76
35	16,365	0.00	0.0		118.44
36	17,924	0.00	0.0		119.86

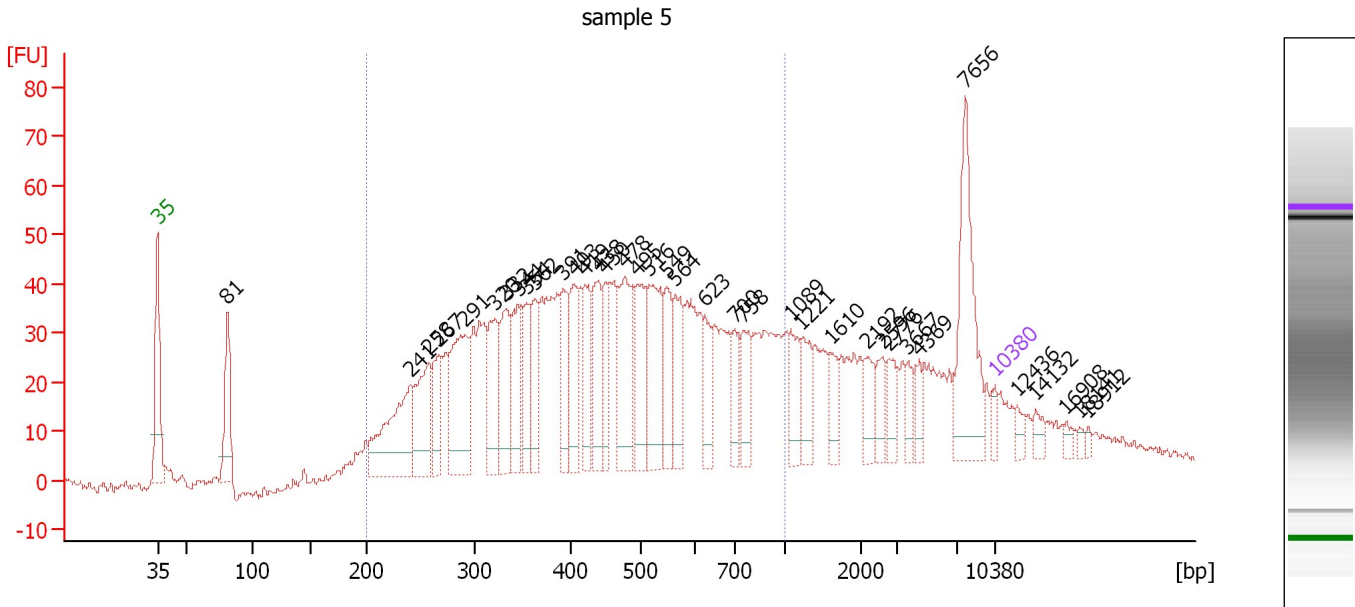
**Region table for sample 4 : sample 4**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	472	1,354.1	42,577.5	10,894.85	73	38.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 37                      Corr. Area 1: 1,303.4  
 Noise: 1.0

**Peak table for sample 5 : sample 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	698.26	13,102.1		48.84
3	241	1,073.48	6,760.5		64.12
4	258	712.31	4,184.7		65.71
5	267	429.14	2,439.3		66.50
6	291	1,013.39	5,276.2		68.75
7	320	605.42	2,866.9		71.18
8	332	589.29	2,692.8		72.11
9	344	556.79	2,449.8		73.14
10	354	443.11	1,898.4		73.89
11	362	414.02	1,733.9		74.54
12	391	436.10	1,688.1		76.93
13	403	437.14	1,641.7		77.81
14	419	430.48	1,557.0		78.70
15	438	544.77	1,882.6		79.82
16	450	369.77	1,245.4		80.48
17	478	805.21	2,554.9		82.07
18	495	568.19	1,737.6		83.09
19	516	801.80	2,352.2		84.12
20	549	410.20	1,132.9		85.62
21	564	429.39	1,154.2		86.32
22	623	278.14	676.5		88.75
23	700	223.55	483.6		91.22
24	758	312.56	625.0		92.02
25	1,089	299.73	417.0		95.94

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : sample 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,221	278.76	345.9		96.79
27	1,610	177.87	167.4		99.26
28	2,192	191.39	132.3		102.35
29	2,596	161.90	94.5		103.61
30	2,776	184.48	100.7		104.17
31	3,667	117.10	48.4		105.71
32	4,369	107.71	37.4		106.60
33	7,656	866.75	171.5		110.52
34	10,380	75.00	10.9	Upper Marker	113.00
35	12,436	0.00	0.0		114.87
36	14,132	0.00	0.0		116.41
37	16,908	0.00	0.0		118.93
38	18,141	0.00	0.0		120.06
39	18,912	0.00	0.0		120.76

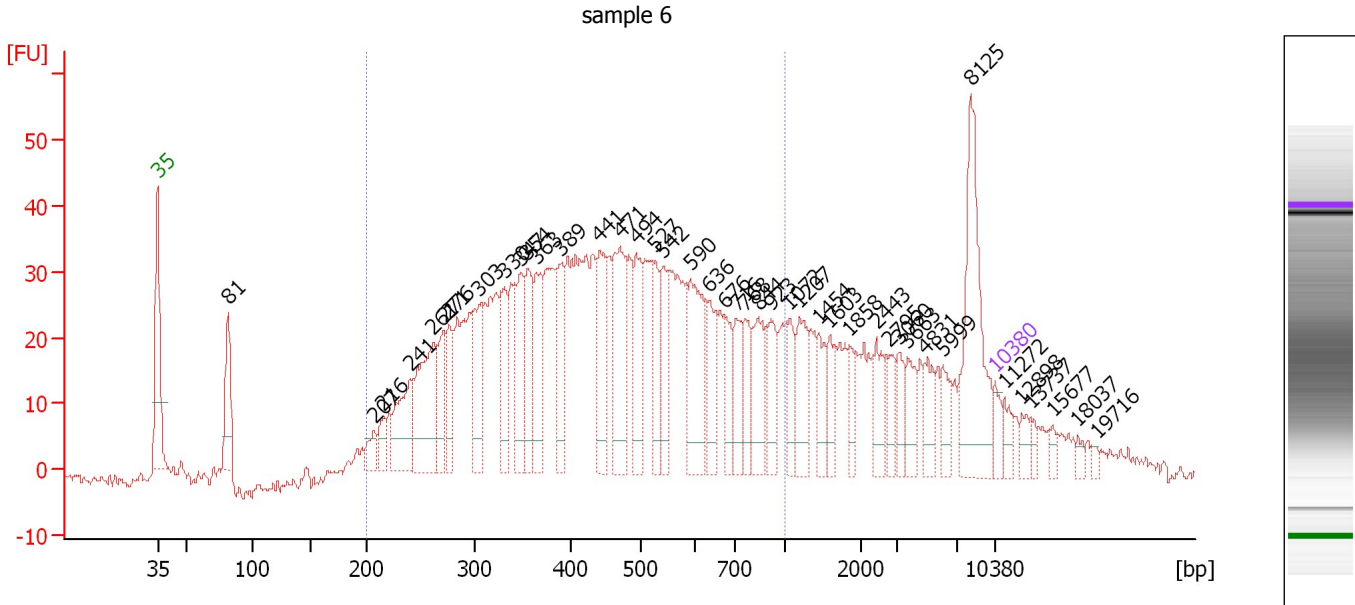
**Region table for sample 5 : sample 5**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	471	1,303.4	66,429.8	17,036.23	71	38.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 43                      Corr. Area 1: 1,173.4  
 Noise: 1.1

**Peak table for sample 6 : sample 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	405.98	7,557.9		48.91
3	207	122.23	893.2		61.07
4	216	112.43	789.9		61.84
5	241	445.33	2,804.3		64.12
6	261	679.13	3,936.4		66.03
7	271	251.30	1,403.6		66.94
8	276	264.58	1,452.7		67.37
9	303	394.31	1,969.1		69.85
10	330	317.36	1,456.7		71.99
11	347	373.88	1,631.2		73.37
12	354	351.35	1,502.2		73.95
13	363	365.22	1,523.2		74.66
14	389	316.52	1,233.6		76.71
15	441	405.83	1,395.1		79.96
16	471	533.79	1,718.3		81.67
17	494	361.18	1,107.9		83.01
18	527	277.33	796.8		84.63
19	542	304.02	850.4		85.30
20	590	507.60	1,303.9		87.54
21	636	258.32	615.6		89.16
22	676	184.27	413.1		90.45
23	716	222.43	470.4		91.45
24	768	175.67	346.5		92.16
25	844	286.49	514.4		93.21

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : sample 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	923	225.49	370.2		94.31
27	1,072	171.18	242.0		95.83
28	1,207	249.65	313.5		96.69
29	1,454	161.29	168.1		98.27
30	1,603	128.96	121.9		99.22
31	1,858	101.59	82.9		100.84
32	2,443	161.24	100.0		103.13
33	2,795	112.66	61.1		104.23
34	3,060	97.22	48.1		104.94
35	3,663	131.39	54.3		105.70
36	4,831	122.32	38.4		107.18
37	5,999	106.46	26.9		108.66
38	8,125	650.58	121.3		110.95
39	10,380	75.00	10.9	Upper Marker	113.00
40	11,272	0.00	0.0		113.81
41	12,898	0.00	0.0		115.29
42	13,737	0.00	0.0		116.05
43	15,677	0.00	0.0		117.82
44	18,037	0.00	0.0		119.96
45	19,716	0.00	0.0		121.49

**Region table for sample 6 : sample 6**

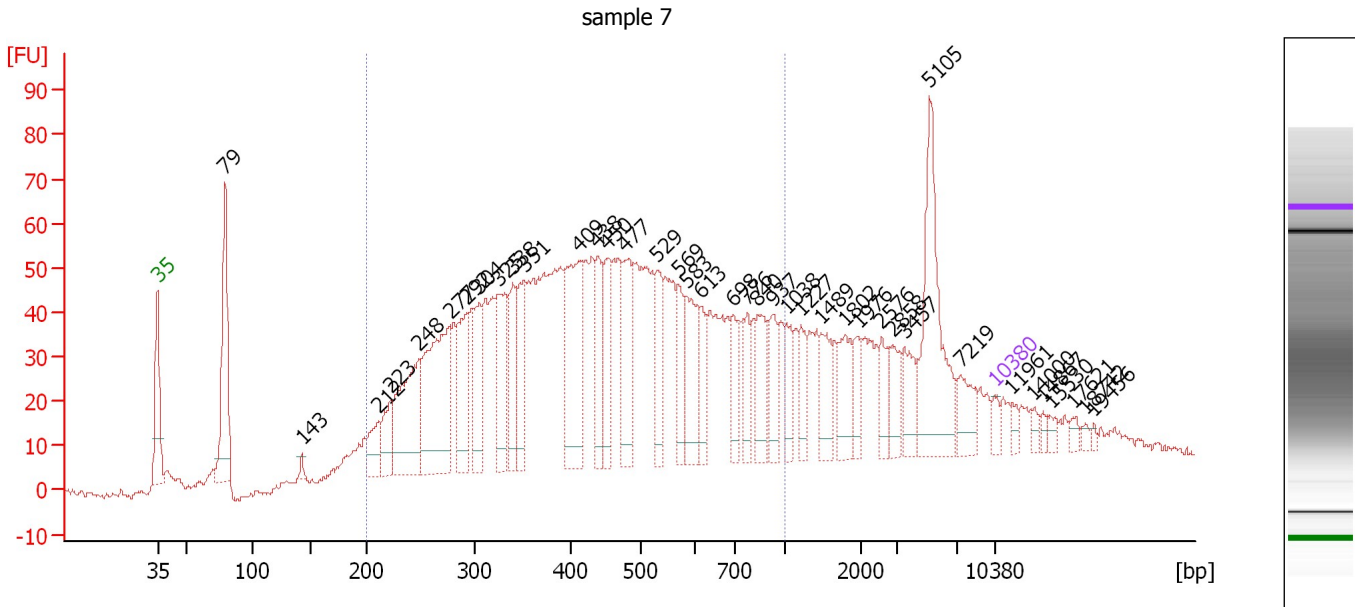
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	470	1,173.4	53,201.2	13,637.01	70	37.8



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 40                      Corr. Area 1: 1,718.8  
 Noise: 1.1

**Peak table for sample 7 : sample 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	79	1,438.78	27,562.0		48.66
3	143	53.74	570.5		55.05
4	212	341.88	2,443.7		61.50
5	223	350.83	2,382.7		62.52
6	248	1,216.93	7,424.1		64.83
7	277	1,624.65	8,897.7		67.43
8	292	722.13	3,742.9		68.87
9	304	541.43	2,694.1		69.93
10	325	764.30	3,560.5		71.60
11	338	511.91	2,291.4		72.67
12	351	507.65	2,193.8		73.64
13	409	1,163.89	4,310.5		78.14
14	438	492.20	1,701.9		79.81
15	450	519.63	1,748.4		80.50
16	477	672.94	2,137.7		82.03
17	529	444.67	1,272.7		84.72
18	569	356.68	949.4		86.58
19	583	604.47	1,570.6		87.23
20	613	300.11	741.6		88.43
21	698	324.02	703.0		91.17
22	776	249.92	487.7		92.28
23	840	447.18	806.6		93.16
24	937	312.96	506.0		94.50
25	1,038	250.46	365.7		95.62

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : sample 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,227	233.08	287.8		96.82
27	1,489	303.28	308.7		98.49
28	1,802	325.01	273.3		100.48
29	1,976	188.90	144.8		101.60
30	2,576	183.35	107.8		103.54
31	2,858	217.76	115.4		104.42
32	3,457	252.11	110.5		105.44
33	5,105	1,089.33	323.3		107.53
34	7,219	247.62	52.0		110.13
35	10,380	75.00	10.9	Upper Marker	113.00
36	11,961	0.00	0.0		114.44
37	14,000	0.00	0.0		116.29
38	14,867	0.00	0.0		117.08
39	15,530	0.00	0.0		117.68
40	17,621	0.00	0.0		119.58
41	18,742	0.00	0.0		120.60
42	19,456	0.00	0.0		121.25

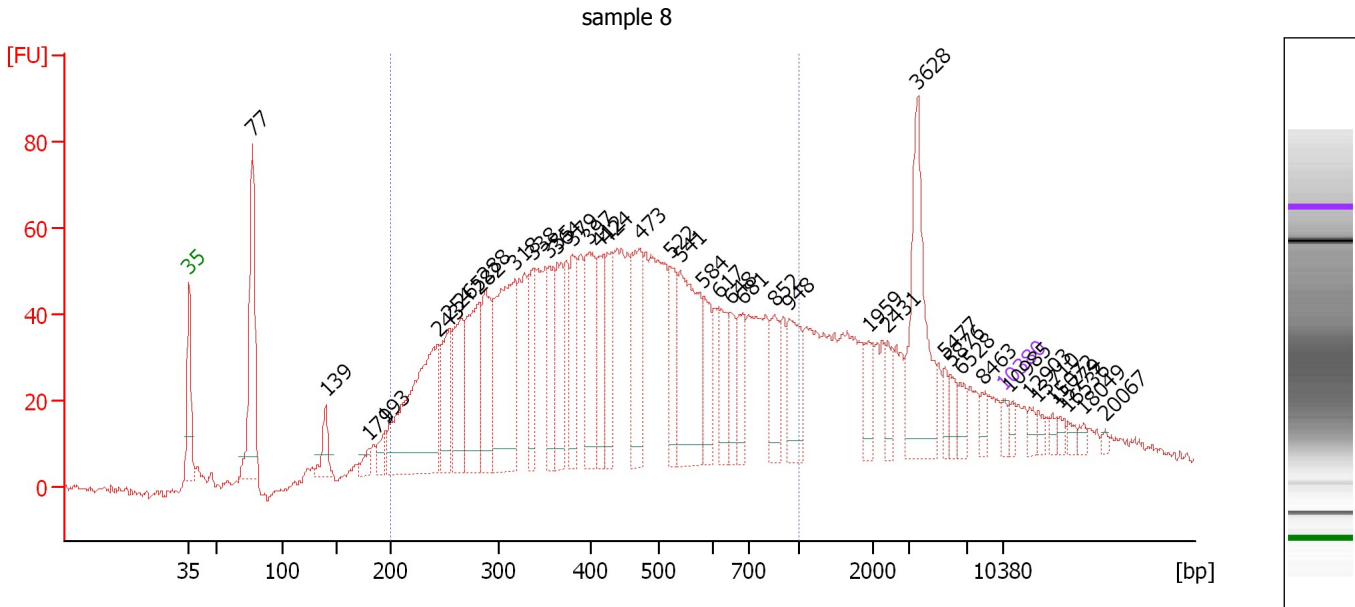
**Region table for sample 7 : sample 7**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	464	1,718.8	88,493.6	22,249.64	71	38.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 8**

Number of peaks found: 41                      Corr. Area 1: 1,866.4  
 Noise: 1.0

**Peak table for sample 8 : sample 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	77	2,155.20	42,448.7		48.41
3	139	386.49	4,199.0		54.74
4	179	163.78	1,385.1		58.46
5	193	226.30	1,772.4		59.79
6	243	2,756.35	17,160.8		64.38
7	254	885.29	5,273.4		65.39
8	265	987.53	5,649.2		66.35
9	282	1,341.68	7,212.1		67.91
10	288	992.68	5,215.8		68.50
11	318	2,209.50	10,524.3		71.03
12	338	649.48	2,910.9		72.63
13	355	681.61	2,907.8		74.01
14	364	866.20	3,608.4		74.70
15	379	720.80	2,880.7		75.94
16	397	1,077.37	4,108.0		77.40
17	412	641.37	2,357.0		78.32
18	424	686.97	2,453.3		79.01
19	473	1,060.89	3,398.1		81.81
20	522	653.13	1,896.0		84.38
21	541	1,603.28	4,493.0		85.25
22	584	517.42	1,342.4		87.27
23	617	508.60	1,249.3		88.55
24	648	337.83	789.5		89.56
25	681	441.34	981.7		90.61

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : sample 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	852	440.28	783.2		93.32
27	948	630.22	1,007.5		94.65
28	1,959	273.47	211.5		101.49
29	2,431	191.65	119.4		103.09
30	3,628	1,284.06	536.2		105.66
31	5,477	140.64	38.9		108.00
32	5,876	138.65	35.8		108.50
33	6,528	143.43	33.3		109.33
34	8,463	104.91	18.8		111.26
35	10,380	75.00	10.9	Upper Marker	113.00
36	10,985	0.00	0.0		113.55
37	12,903	0.00	0.0		115.29
38	13,710	0.00	0.0		116.03
39	15,072	0.00	0.0		117.27
40	15,779	0.00	0.0		117.91
41	16,536	0.00	0.0		118.60
42	18,049	0.00	0.0		119.97
43	20,067	0.00	0.0		121.81

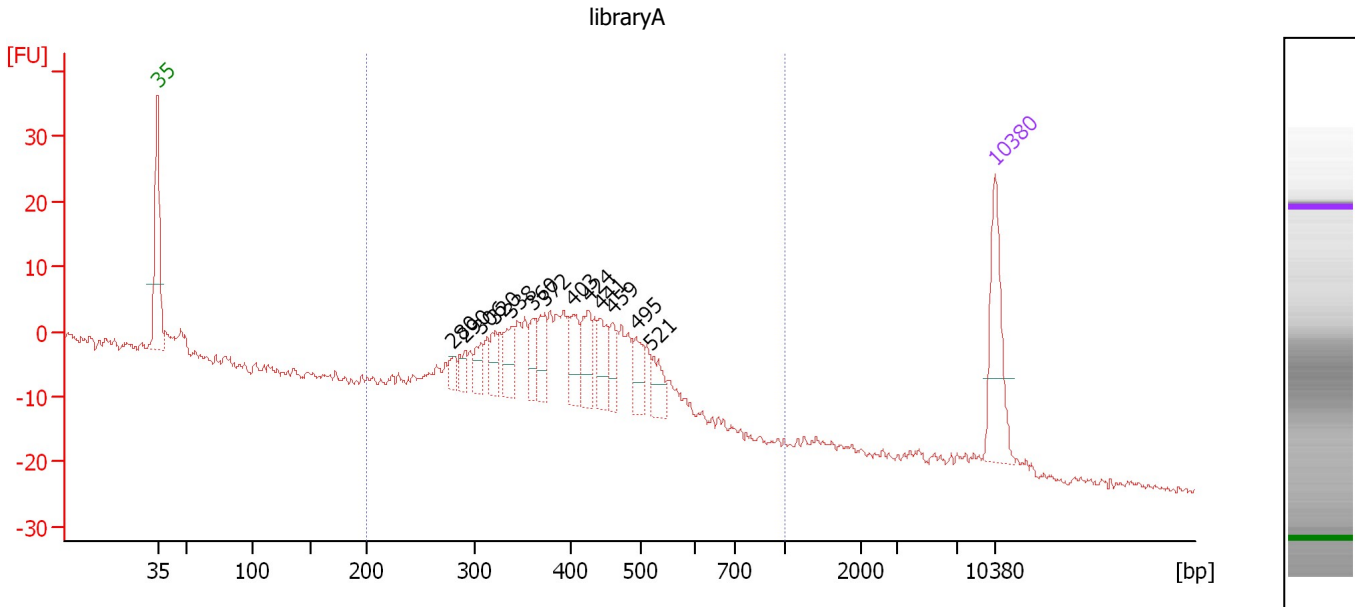
**Region table for sample 8 : sample 8**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	456	1,866.4	120,378.1	29,649.11	72	39.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : libraryA**

Number of peaks found: 13                      Corr. Area 1: 259.4  
 Noise: 0.6

**Peak table for sample 9 : libraryA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	280	15.38	83.4		67.69
3	290	18.48	96.5		68.66
4	306	23.19	114.6		70.09
5	320	29.37	138.9		71.21
6	338	33.72	151.3		72.59
7	360	30.82	129.8		74.38
8	372	32.06	130.7		75.35
9	403	44.75	168.2		77.80
10	424	47.35	169.0		79.02
11	441	40.48	139.0		79.99
12	459	26.56	87.6		81.01
13	495	30.85	94.5		83.05
14	521	28.76	83.7		84.33
15	10,380	75.00	10.9	Upper Marker	113.00

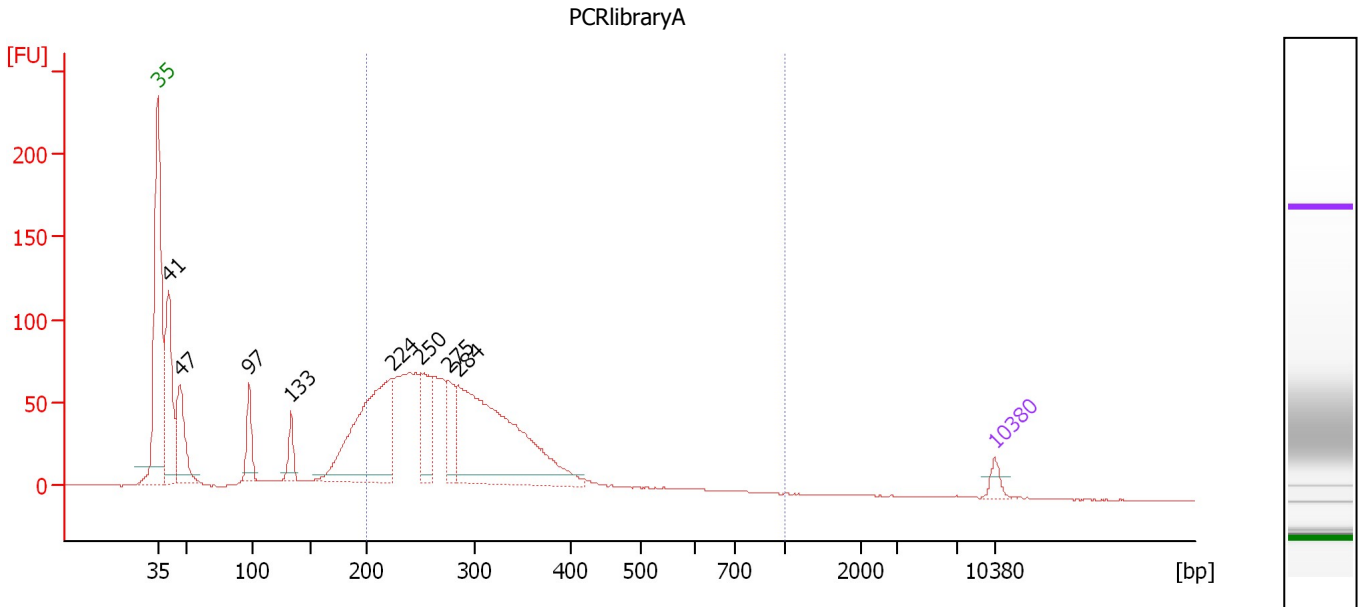
**Region table for sample 9 : libraryA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	406	259.4	2,688.6	682.93	95	19.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

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 Modified: 3/16/2016 4:31:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : PCRlibraryA**

Number of peaks found: 8                      Corr. Area 1: 1,360.2  
 Noise: 0.2

**Peak table for sample 10 : PCRlibraryA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	41	1,381.75	51,488.6		43.90
3	47	833.28	27,072.2		44.86
4	97	419.68	6,573.4		50.63
5	133	255.26	2,903.9		54.15
6	224	2,216.54	15,004.5		62.58
7	250	696.53	4,219.7		64.99
8	275	415.08	2,284.6		67.30
9	284	3,005.67	16,033.3		68.11
10	10,380	75.00	10.9	Upper Marker	113.00

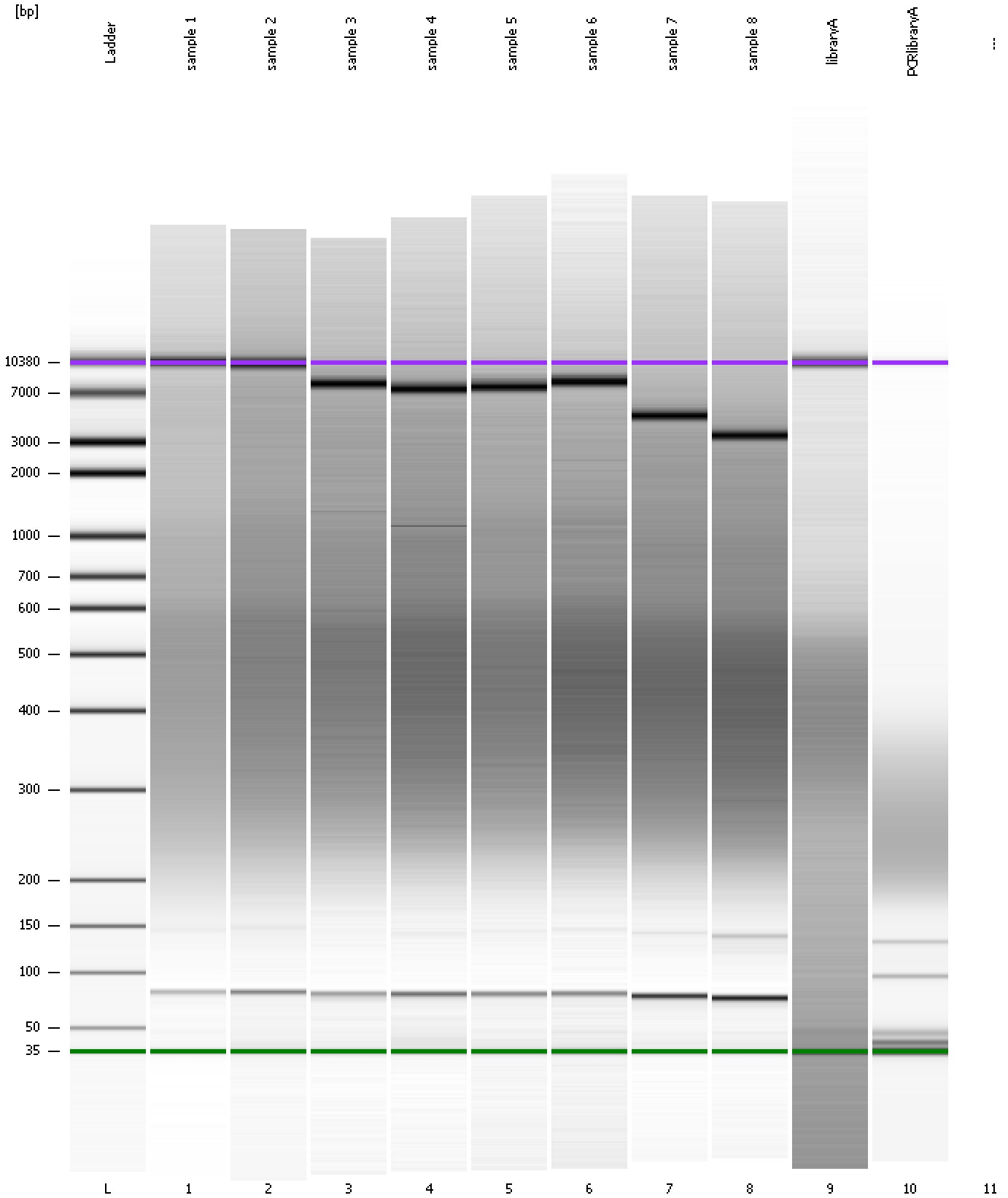
**Region table for sample 10 : PCRlibraryA**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	291	1,360.2	45,911.6	8,292.13	69	27.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
Modified: 3/16/2016 4:31:37 PM

**Gel Image**

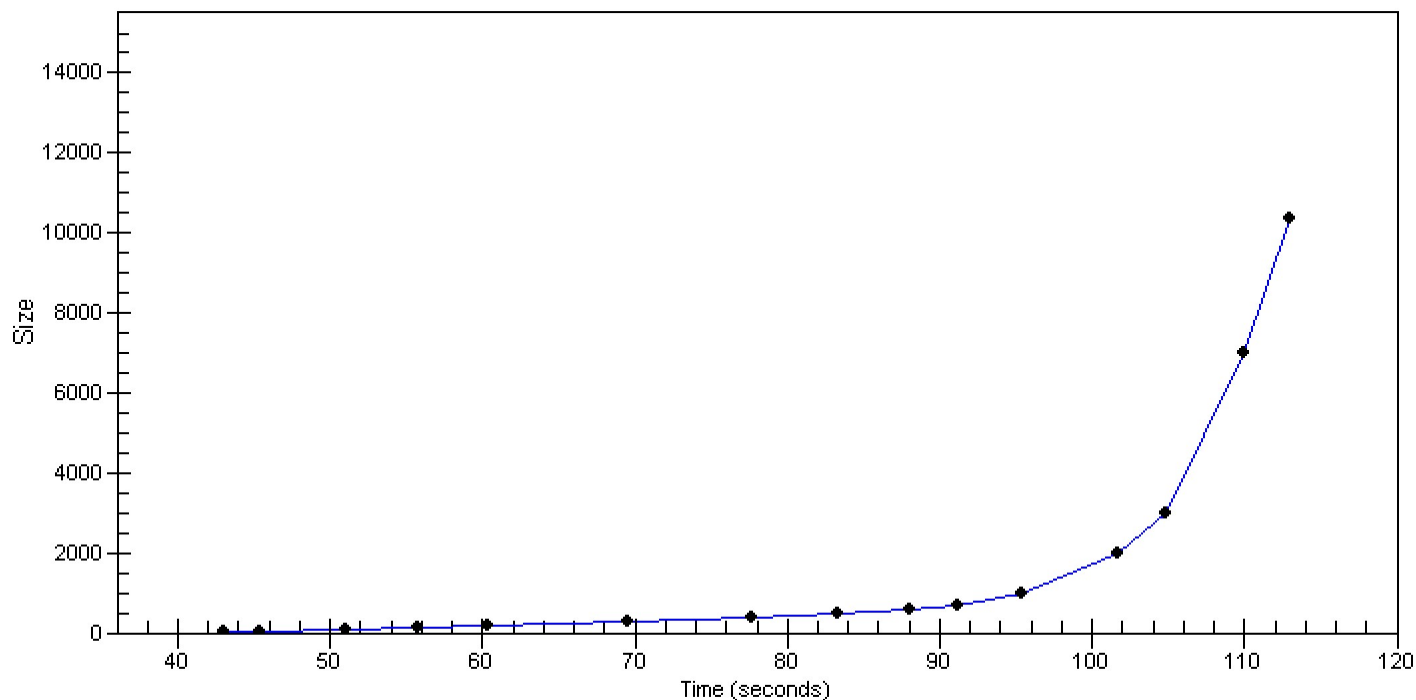


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
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**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
Modified: 3/16/2016 4:31:37 PM

**Invalid Samples**

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-16\2016-03-16\_005.xad

Created: 3/16/2016 3:53:12 PM  
 Modified: 3/16/2016 4:31:37 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		3/16/2016 4:31:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-16\2016-03-16_005.xad)		Instrument	Run		3/16/2016 3:53:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/16/2016 3:53:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/16/2016 3:53:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/16/2016 3:53:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/16/2016 3:53:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/16/2016 3:53:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/16/2016 3:53:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1