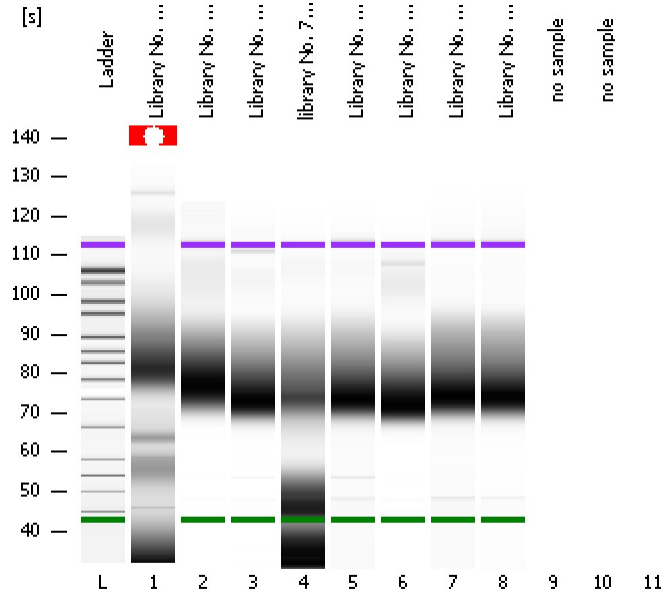


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
Modified: 9/25/2013 11:35:33 AM

Electrophoresis File Run Summary



Instrument Information:

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

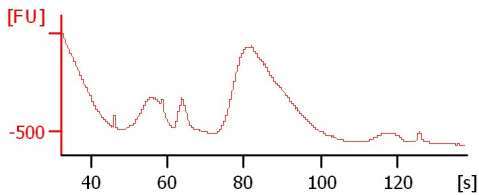
Assay Information:

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

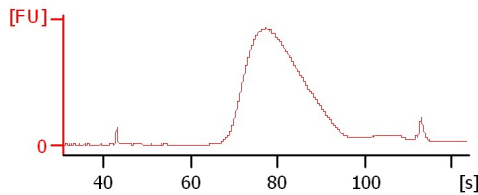
Chip Information:

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

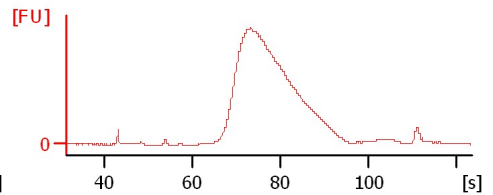
Library No. 73 repeat 2



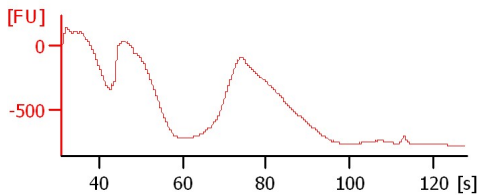
Library No. 74-repeat 2



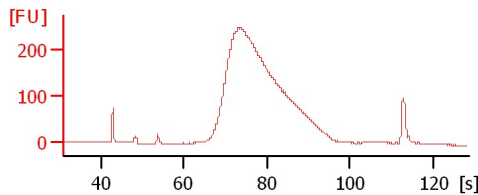
Library No. 75 repeat 2



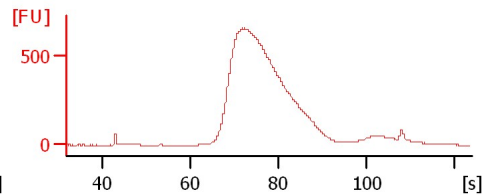
library No. 76 repeat 2



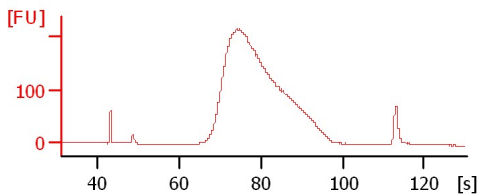
Library No. 77 repeat 2



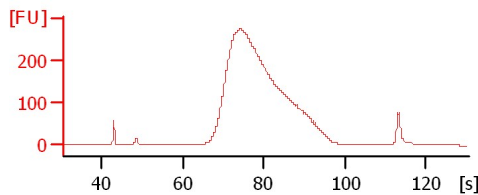
Library No. 78 repeat 2



Library No. 79 repeat 2



Library No. 80 repeat 2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
Modified: 9/25/2013 11:35:33 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Library No. 73 repeat2		<input type="checkbox"/>	✓			
Library No. 74-repeat 2		<input type="checkbox"/>	✓			
Library No. 75 repeat 2		<input type="checkbox"/>	✓			
library No. 76 repeat 2		<input type="checkbox"/>	✓			
Library No. 77 repeat 2		<input type="checkbox"/>	✓			
Library No. 78 repeat 2		<input type="checkbox"/>	✓			
Library No. 79 repeat 2		<input type="checkbox"/>	✓			
Library No. 80 repeat 2		<input type="checkbox"/>	✓			
no sample		<input type="checkbox"/>				
no sample		<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\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
Modified: 9/25/2013 11:35:33 AM

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

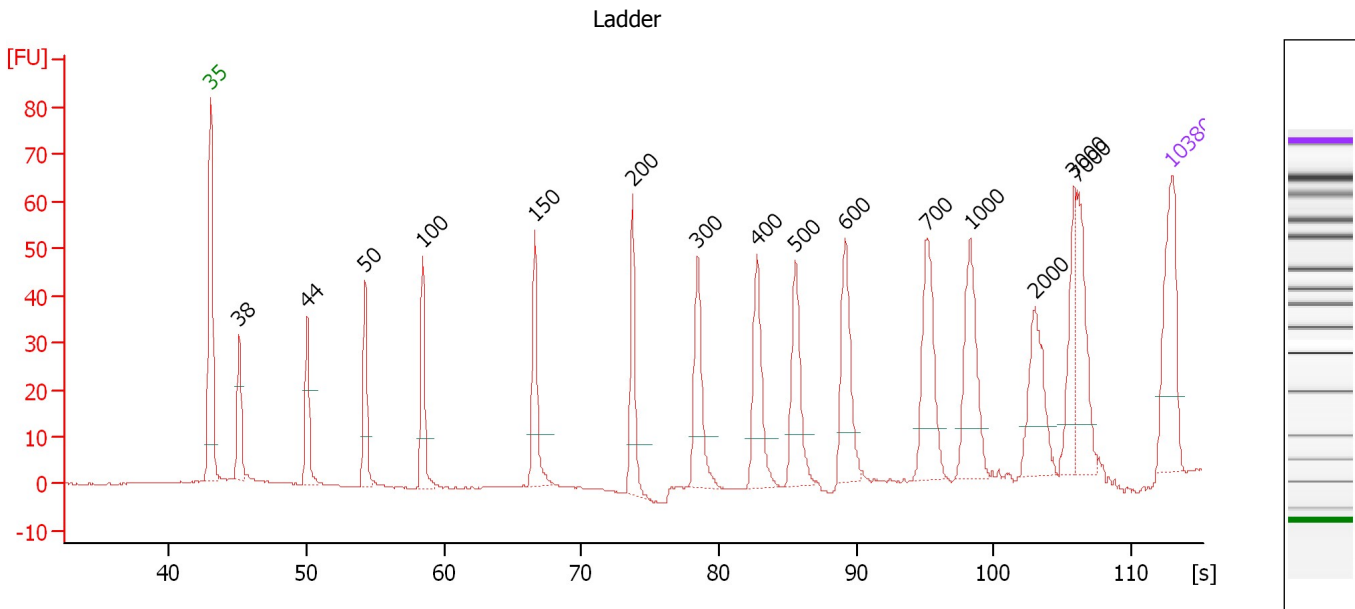
Ladder

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\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

Peak table for Ladder

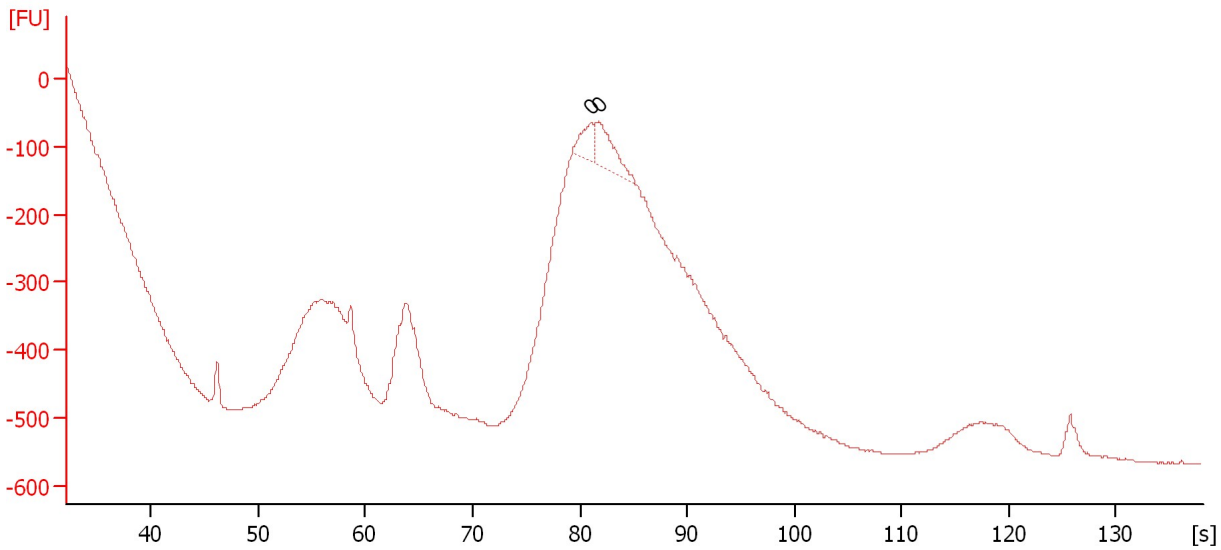
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	0.00	0.0	
3	44	0.00	0.0	
4	50	150.00	4,545.5	Ladder Peak
5	100	150.00	2,272.7	Ladder Peak
6	150	150.00	1,515.2	Ladder Peak
7	200	150.00	1,136.4	Ladder Peak
8	300	150.00	757.6	Ladder Peak
9	400	150.00	568.2	Ladder Peak
10	500	150.00	454.5	Ladder Peak
11	600	150.00	378.8	Ladder Peak
12	700	150.00	324.7	Ladder Peak
13	1,000	150.00	227.3	Ladder Peak
14	2,000	150.00	113.6	Ladder Peak
15	3,000	150.00	75.8	Ladder Peak
16	7,000	150.00	32.5	Ladder Peak
17	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...

Library No. 73 repeat2



Overall Results for sample 1 : Library No. 73 repeat2

Number of peaks found: 0 Noise: 1.0

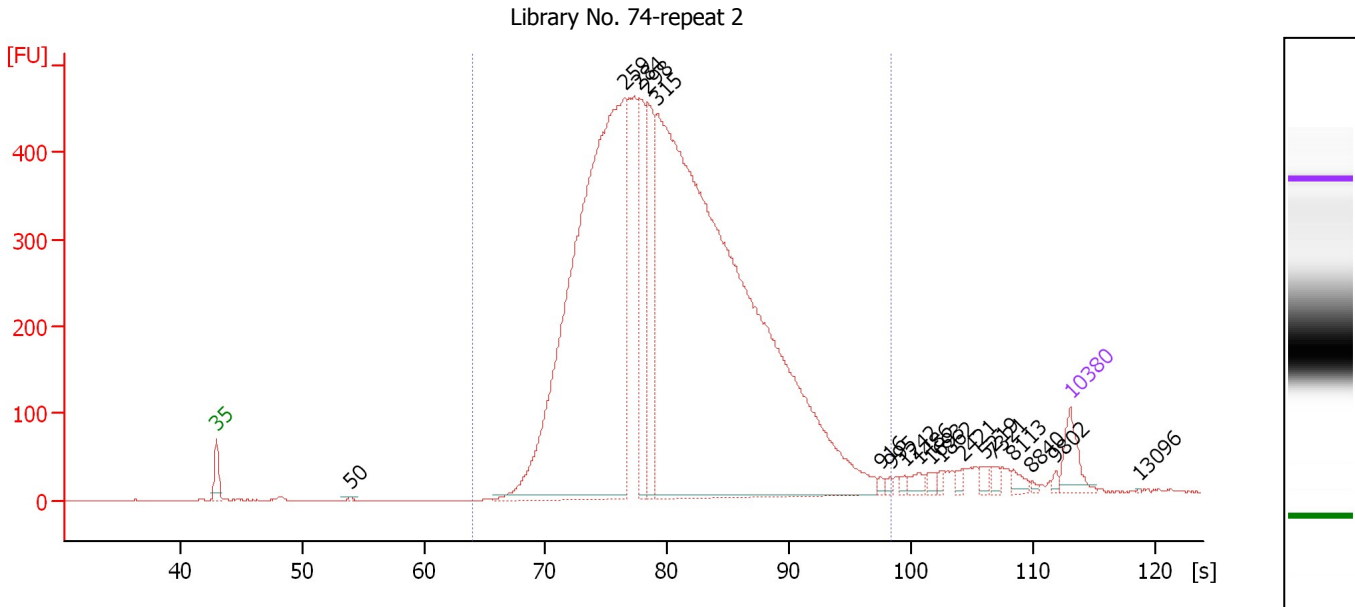
Peak table for sample 1 : Library No. 73 repeat2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Library No. 74-repeat 2

Number of peaks found: 18 Corr. Area 1: 9,097.0
 Noise: 0.4

Peak table for sample 2 : Library No. 74-repeat 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	7.22	220.6	
3	259	3,464.00	20,276.6	
4	284	405.67	2,164.4	
5	298	472.49	2,402.8	
6	315	5,117.70	24,615.4	
7	916	9.97	16.5	
8	995	10.96	16.7	
9	1,242	12.06	14.7	
10	1,486	24.26	24.7	
11	1,693	15.49	13.9	
12	1,862	10.80	8.8	
13	2,421	13.56	8.5	
14	5,219	16.24	4.7	
15	7,321	16.04	3.3	
16	8,113	21.93	4.1	
17	8,840	6.08	1.0	
18	9,802	8.93	1.4	
19	10,380	75.00	10.9	Upper Marker
20	13,096	0.00	0.0	

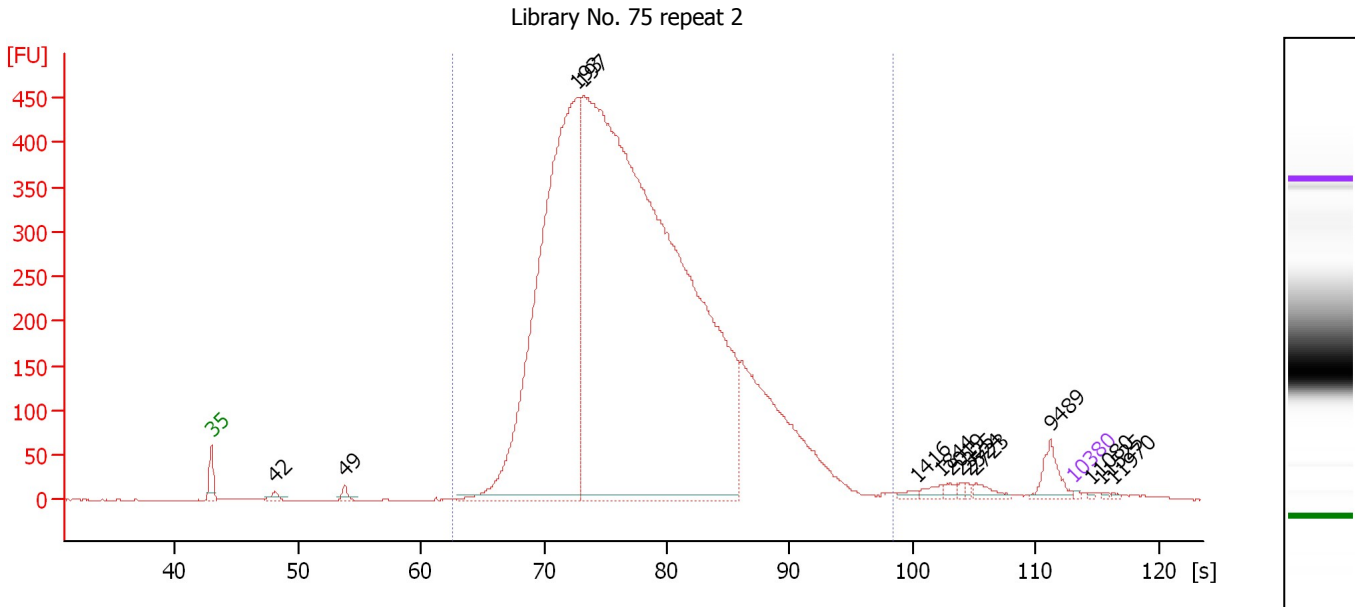
Region table for sample 2 : Library No. 74-repeat 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
135	1,000	357	49,961.6	9,538.84	9,097.0	97	41.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Library No. 75 repeat 2

Number of peaks found: 14 Corr. Area 1: 8,775.7
 Noise: 0.4

Peak table for sample 3 : Library No. 75 repeat 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	553.79	20,043.5	
3	49	553.16	16,958.3	
4	193	60,995.16	479,692.5	
5	197	138,793.55	1,069,397.4	
6	1,416	251.55	269.1	
7	1,844	397.16	326.3	
8	2,019	245.82	184.4	
9	2,325	143.96	93.8	
10	2,524	139.96	84.0	
11	2,723	485.25	270.0	
12	9,489	1,242.09	198.3	
13	10,380	75.00	10.9	Upper Marker
14	11,080	0.00	0.0	
15	11,525	0.00	0.0	
16	11,970	0.00	0.0	

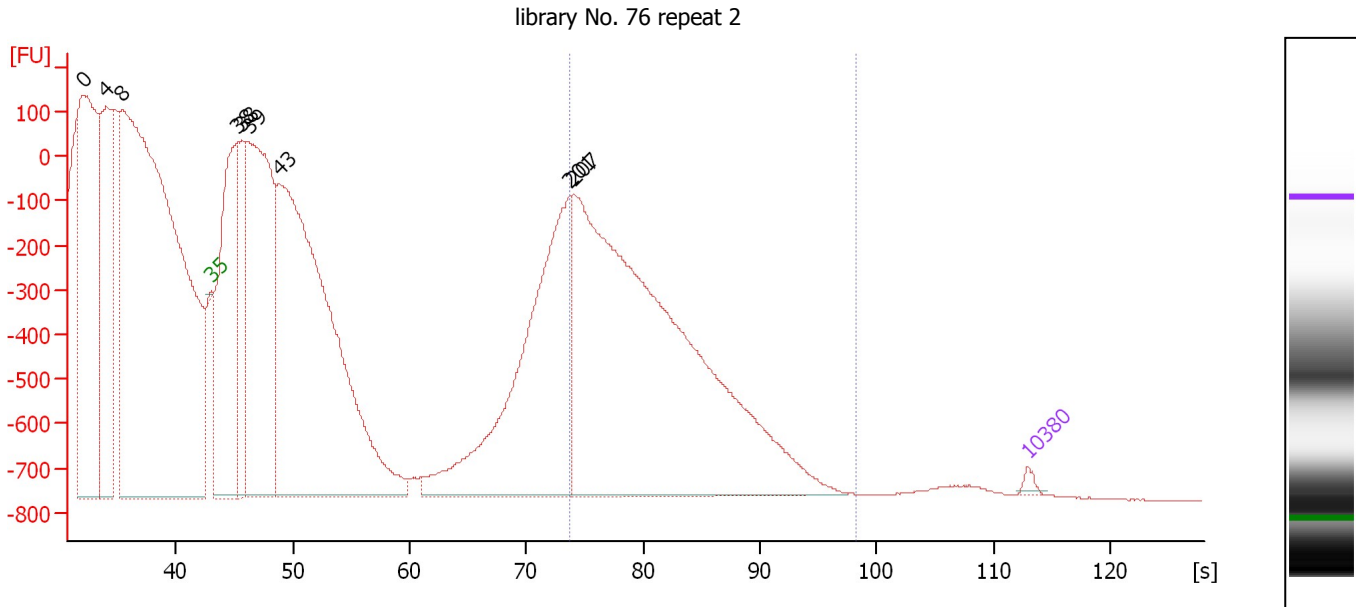
Region table for sample 3 : Library No. 75 repeat 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
125	1,000	303	1,218,821.4	195,905.67	8,775.7	97	45.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : library No. 76 repeat 2

Number of peaks found: 9 Corr. Area 1: 1,200.7
 Noise: 0.9

Peak table for sample 4 : library No. 76 repeat 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	4	0.00	0.0	
3	8	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	38	8,901.62	354,384.1	
6	38	2,962.11	116,613.0	
7	39	12,222.81	471,450.1	
8	43	21,728.06	769,757.9	
9	201	10,210.84	77,079.1	
10	207	21,596.46	158,429.5	
11	10,380	75.00	10.9	Upper Marker

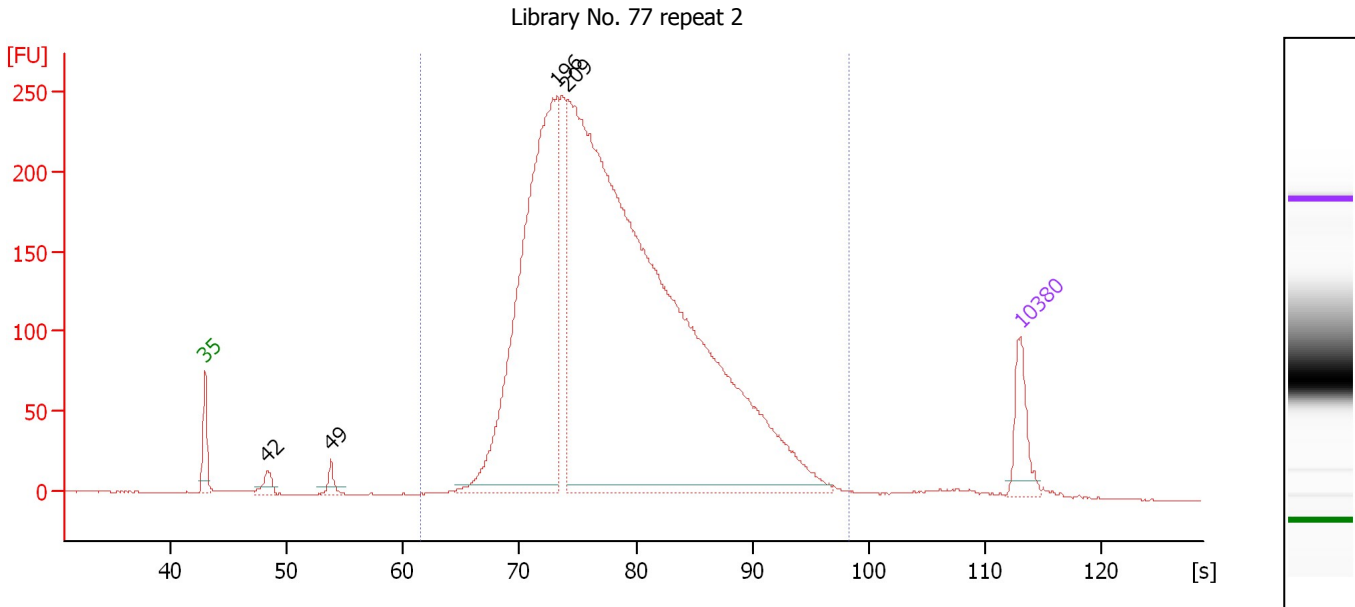
Region table for sample 4 : library No. 76 repeat 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	261	14,895.1	2,509.02	1,200.7	47	17.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Library No. 77 repeat 2

Number of peaks found: 4 Corr. Area 1: 4,723.3
 Noise: 0.3

Peak table for sample 5 : Library No. 77 repeat 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	42.92	1,543.6	
3	49	31.44	964.7	
4	196	1,626.90	12,552.6	
5	209	4,155.36	30,183.6	
6	10,380	75.00	10.9	Upper Marker

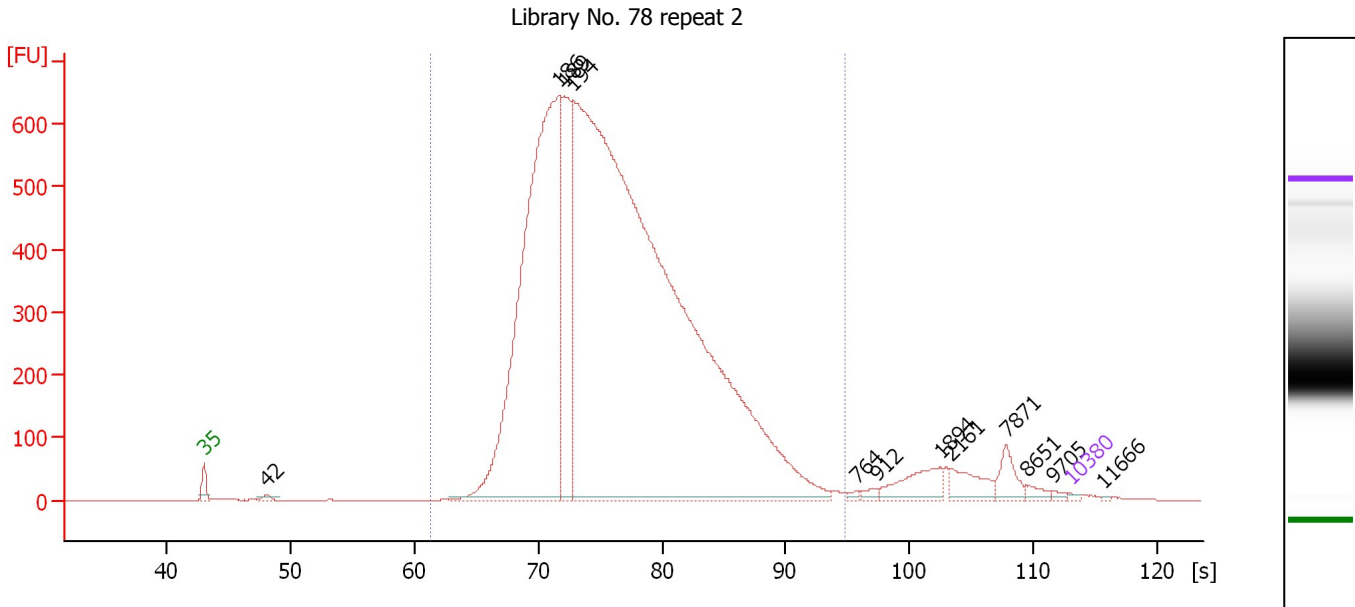
Region table for sample 5 : Library No. 77 repeat 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
119	1,000	318	32,513.1	5,399.23	4,723.3	98	46.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Library No. 78 repeat 2

Number of peaks found: 12 Corr. Area 1: 12,351.7
 Noise: 0.3

Peak table for sample 6 : Library No. 78 repeat 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	250.45	9,085.7	
3	186	42,975.32	350,643.4	
4	189	9,660.88	77,551.0	
5	194	107,614.04	842,077.8	
6	764	128.36	254.5	
7	912	225.47	374.5	
8	1,894	1,449.69	1,159.6	
9	2,161	1,046.86	734.1	
10	7,871	867.60	167.0	
11	8,651	259.60	45.5	
12	9,705	109.24	17.1	
13	10,380	75.00	10.9	Upper Marker
14	11,666	0.00	0.0	

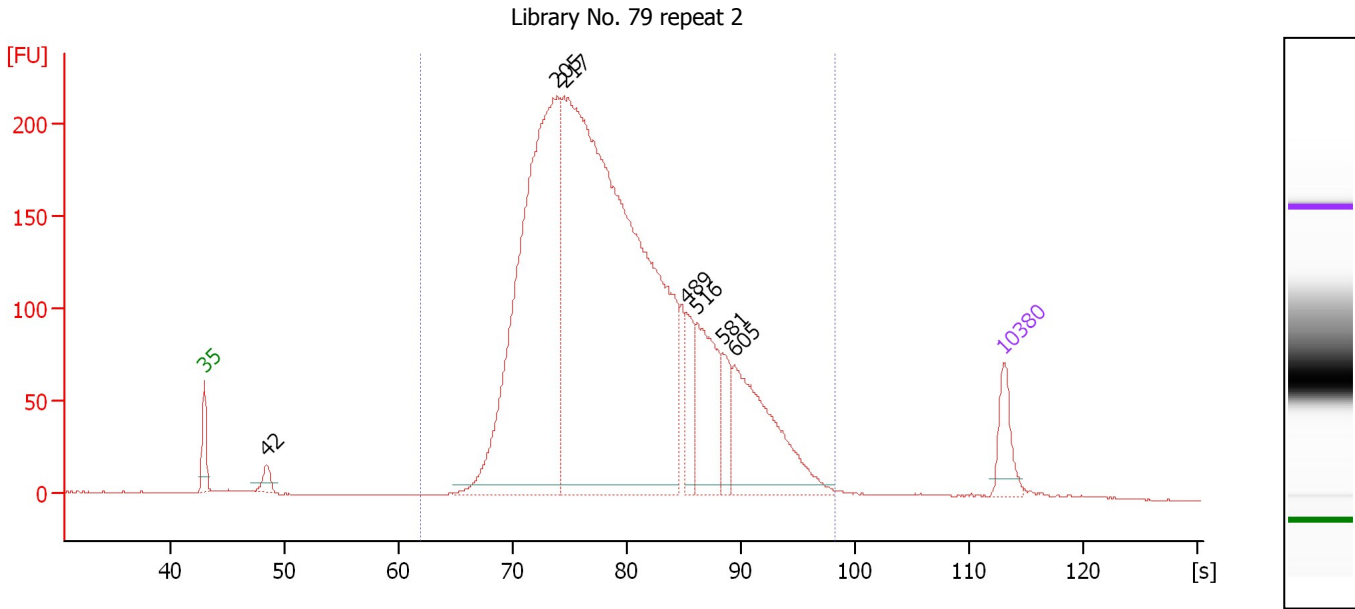
Region table for sample 6 : Library No. 78 repeat 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
117	693	277	946,217.0	142,774.64	12,351.7	95	43.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Library No. 79 repeat 2

Number of peaks found: 7 Corr. Area 1: 4,242.0
 Noise: 0.3

Peak table for sample 7 : Library No. 79 repeat 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	51.99	1,863.5	
3	205	2,062.94	15,251.0	
4	217	3,701.20	25,856.4	
5	489	127.86	396.6	
6	516	298.91	878.0	
7	581	92.20	240.6	
8	605	410.59	1,028.7	
9	10,380	75.00	10.9	Upper Marker

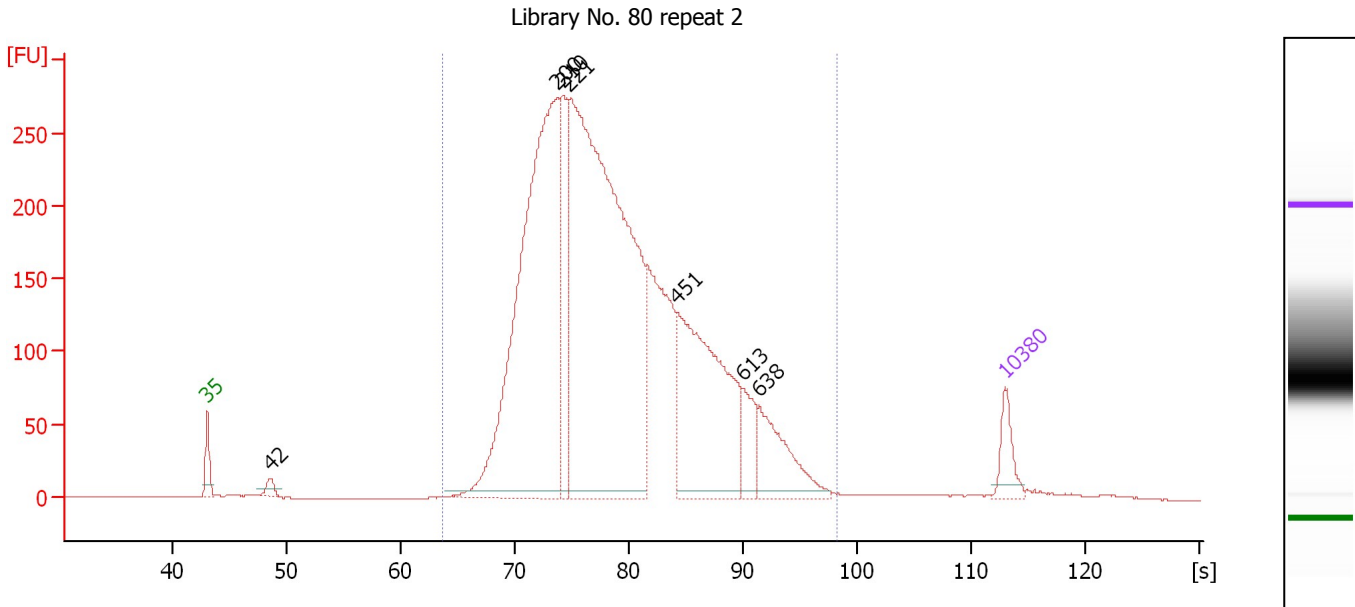
Region table for sample 7 : Library No. 79 repeat 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
122	1,000	338	36,827.5	6,411.62	4,242.0	98	46.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
 Modified: 9/25/2013 11:35:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Library No. 80 repeat 2

Number of peaks found: 7 Corr. Area 1: 5,202.6
 Noise: 0.2

Peak table for sample 8 : Library No. 80 repeat 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	43.82	1,570.2	
3	200	2,428.86	18,373.8	
4	210	397.79	2,866.5	
5	221	3,231.75	22,134.3	
6	451	911.91	3,064.7	
7	613	127.58	315.1	
8	638	256.14	608.2	
9	10,380	75.00	10.9	Upper Marker

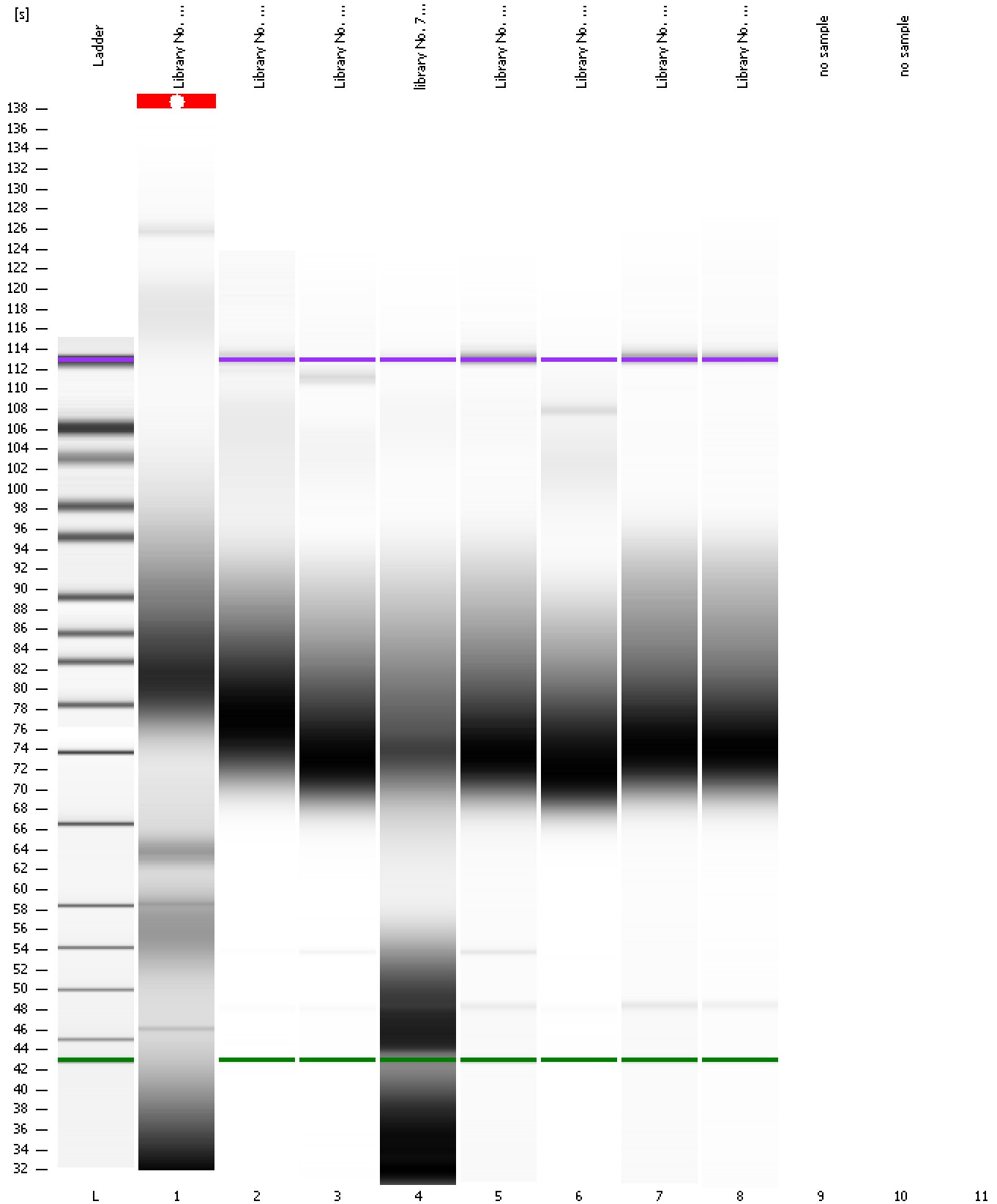
Region table for sample 8 : Library No. 80 repeat 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
132	1,000	331	45,138.9	7,738.78	5,202.6	98	45.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
Modified: 9/25/2013 11:35:33 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-25\2013-09-25_002.xad

Created: 9/25/2013 11:02:13 AM
Modified: 9/25/2013 11:35:33 AM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.