

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-28\2015-05-28_001.xad

Created: 5/28/2015 9:50:19 AM
Modified: 5/28/2015 10:42:35 AM

Electrophoresis File Run Summary

Instrument Information:

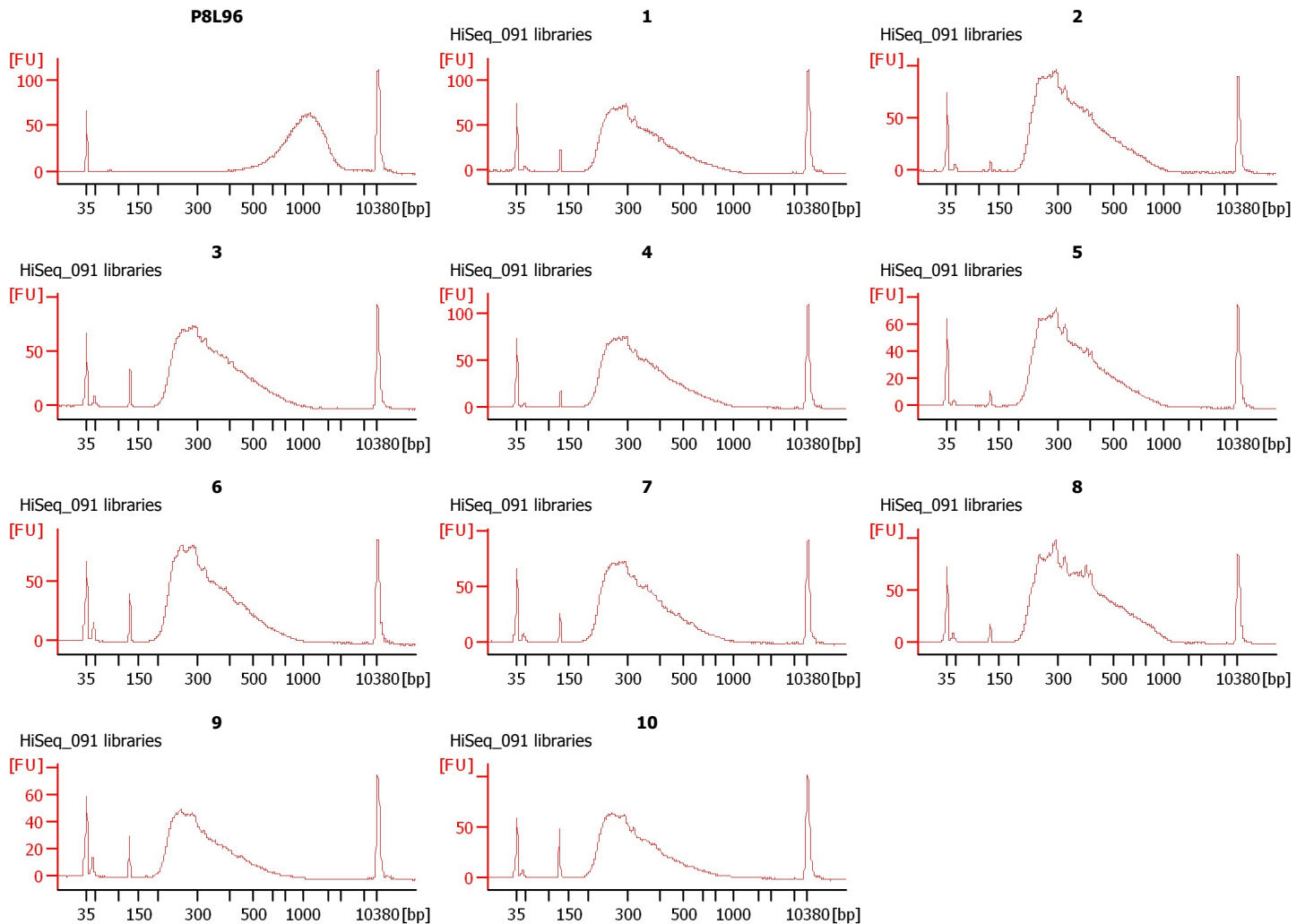
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P8L96		<input type="checkbox"/>				
1	HiSeq_091 libraries	<input type="checkbox"/>	✓			
2	HiSeq_091 libraries	<input type="checkbox"/>	✓			
3	HiSeq_091 libraries	<input type="checkbox"/>	✓			
4	HiSeq_091 libraries	<input type="checkbox"/>	✓			
5	HiSeq_091 libraries	<input type="checkbox"/>	✓			
6	HiSeq_091 libraries	<input type="checkbox"/>	✓			
7	HiSeq_091 libraries	<input type="checkbox"/>	✓			
8	HiSeq_091 libraries	<input type="checkbox"/>	✓			
9	HiSeq_091 libraries	<input type="checkbox"/>	✓			
10	HiSeq_091 libraries	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

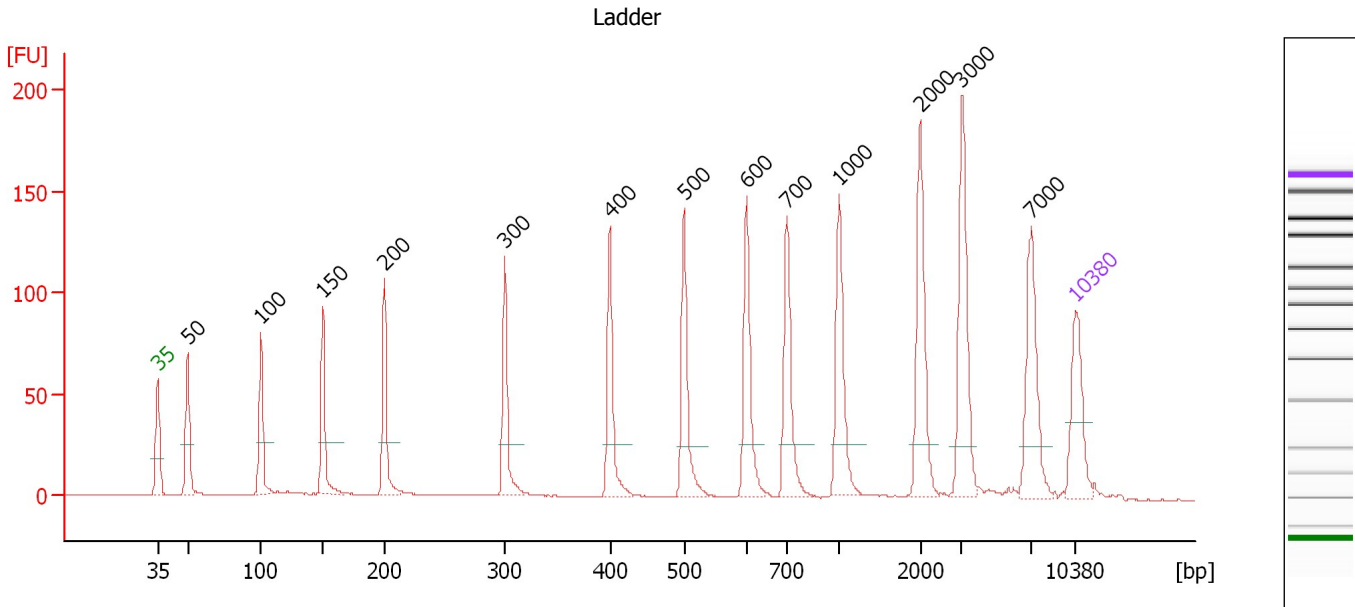
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

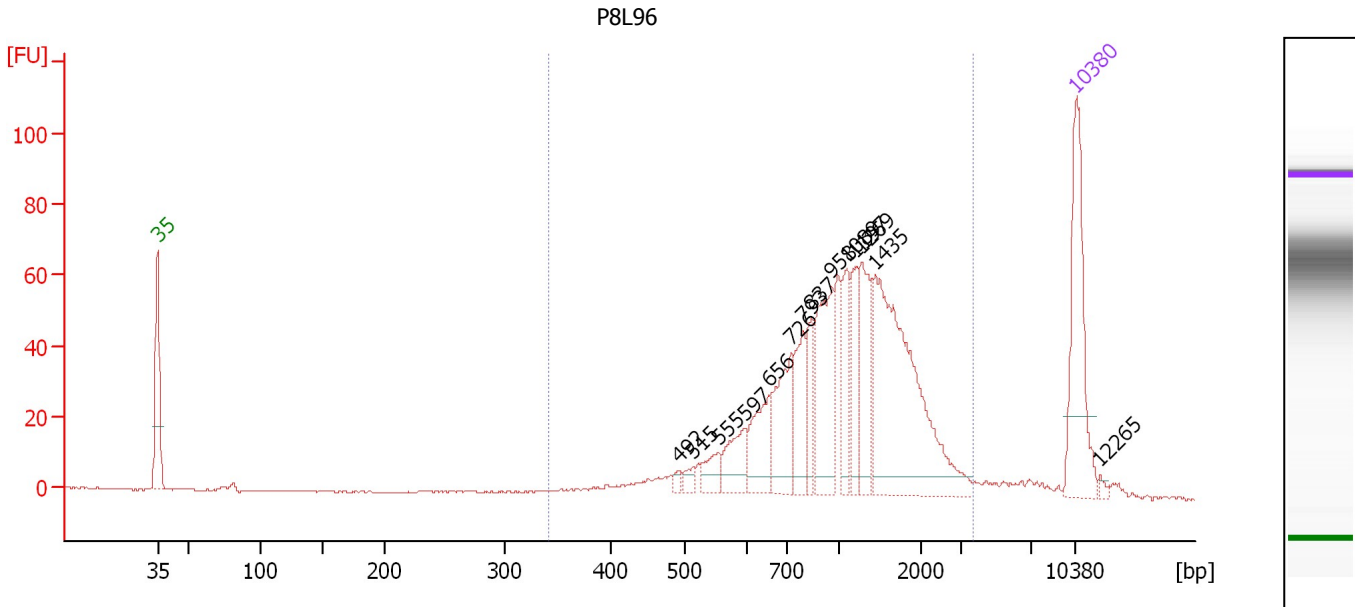
Peak table for Ladder

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.86
4	150	150.00	1,515.2	Ladder Peak	55.63
5	200	150.00	1,136.4	Ladder Peak	60.31
6	300	150.00	757.6	Ladder Peak	69.50
7	400	150.00	568.2	Ladder Peak	77.49
8	500	150.00	454.5	Ladder Peak	83.15
9	600	150.00	378.8	Ladder Peak	87.91
10	700	150.00	324.7	Ladder Peak	91.01
11	1,000	150.00	227.3	Ladder Peak	94.98
12	2,000	150.00	113.6	Ladder Peak	101.16
13	3,000	150.00	75.8	Ladder Peak	104.34
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : P8L96

Number of peaks found: 14 Corr. Area 1: 835.9
 Noise: 0.2

Peak table for sample 1 : P8L96

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	492	4.16	12.8		82.70
3	515	6.96	20.5		83.86
4	555	15.68	42.8		85.78
5	597	30.63	77.7		87.78
6	656	44.31	102.3		89.65
7	726	55.62	116.1		91.35
8	793	38.59	73.8		92.24
9	837	26.14	47.3		92.82
10	958	72.12	114.1		94.42
11	1,089	32.66	45.4		95.53
12	1,197	32.62	41.3		96.20
13	1,269	50.11	59.8		96.65
14	1,435	181.50	191.6		97.67
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,265	0.00	0.0		114.87

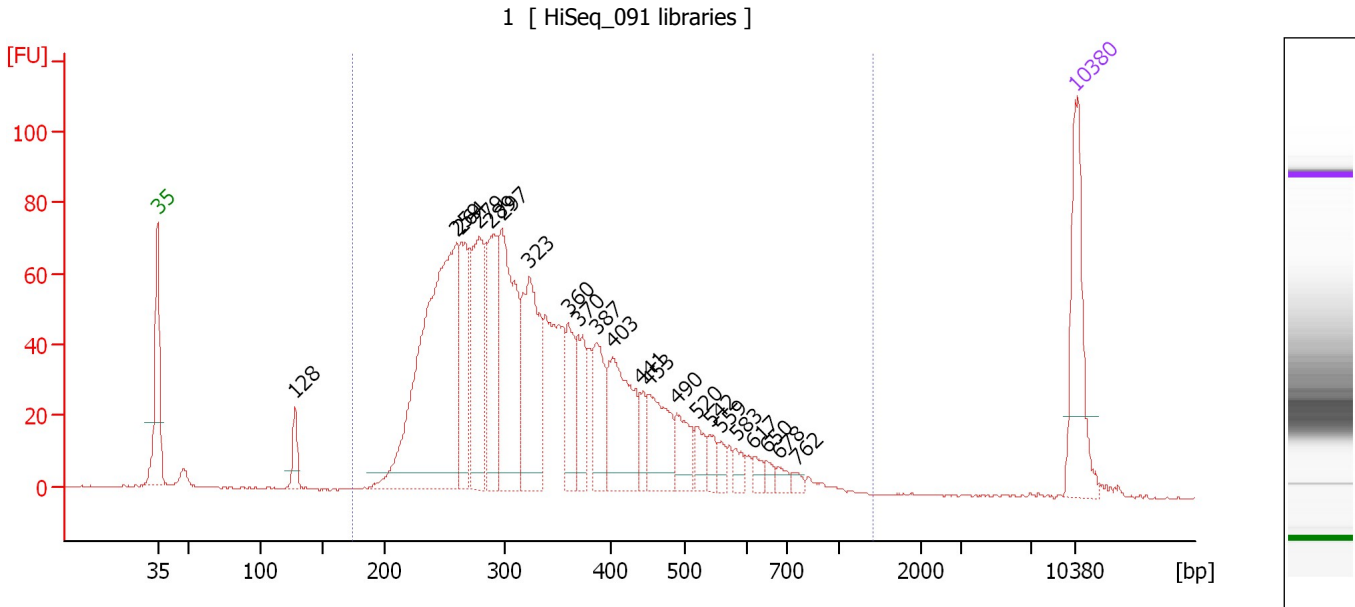
Region table for sample 1 : P8L96

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
343	1,182	3,684	835.9	1,080.2	96	46.3	658.30	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 1

Number of peaks found: 22 Corr. Area 1: 1,686.9
 Noise: 0.3

Peak table for sample 2 : 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	128	25.81	306.4		53.50
3	259	413.48	2,416.0		65.76
4	264	105.13	603.9		66.17
5	279	135.90	739.3		67.52
6	289	113.11	593.3		68.48
7	297	183.24	934.1		69.24
8	323	150.56	705.3		71.37
9	360	54.01	227.2		74.31
10	370	52.66	215.7		75.08
11	387	56.66	221.6		76.48
12	403	106.63	400.9		77.66
13	441	21.12	72.6		79.79
14	453	65.43	218.7		80.51
15	490	34.98	108.1		82.59
16	520	19.50	56.8		84.09
17	542	14.45	40.4		85.17
18	559	9.84	26.7		85.94
19	583	11.23	29.2		87.12
20	617	8.58	21.1		88.43
21	650	7.44	17.3		89.47
22	678	7.87	17.6		90.33
23	762	5.43	10.8		91.82
24	10,380	75.00	10.9	Upper Marker	113.00

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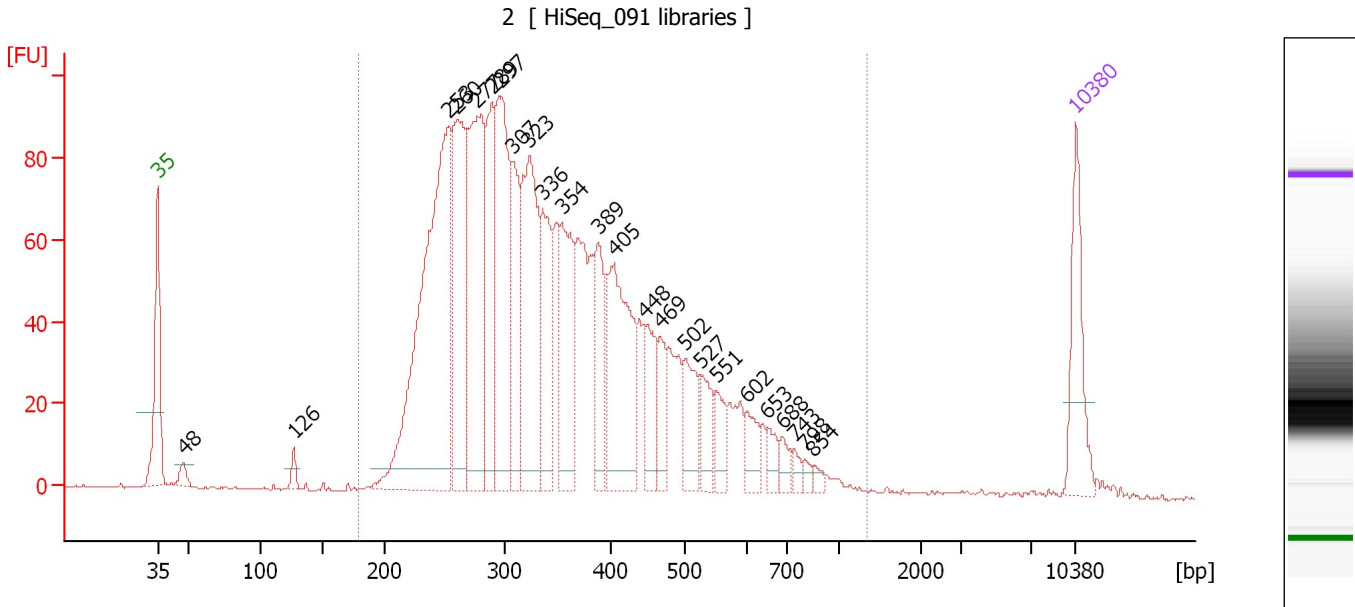
Electropherogram Summary Continued ...**... Region table for sample 2 : 1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Co lor
175	353	1,407	1,686.9	8,850.0	97	34.4	1,831.86	■

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 2

Number of peaks found: 24 Corr. Area 1: 2,281.9
 Noise: 0.2

Peak table for sample 3 : 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	48	16.38	517.8		44.98
3	126	15.18	182.1		53.37
4	253	586.53	3,507.9		65.21
5	260	233.19	1,359.7		65.81
6	277	306.26	1,675.7		67.38
7	289	162.75	853.4		68.48
8	297	265.13	1,352.7		69.22
9	307	123.45	608.3		70.10
10	323	252.87	1,186.0		71.34
11	336	130.66	589.7		72.35
12	354	148.22	634.1		73.83
13	389	94.85	369.7		76.59
14	405	208.44	779.2		77.79
15	448	67.04	226.9		80.19
16	469	46.97	151.8		81.39
17	502	66.17	199.8		83.23
18	527	44.22	127.1		84.43
19	551	31.56	86.8		85.58
20	602	30.35	76.4		87.98
21	653	20.31	47.2		89.54
22	688	15.37	33.8		90.65
23	743	9.56	19.5		91.57
24	798	7.01	13.3		92.31
25	854	7.52	13.3		93.05

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Electropherogram Summary Continued ...**... Peak table for sample 3 : 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

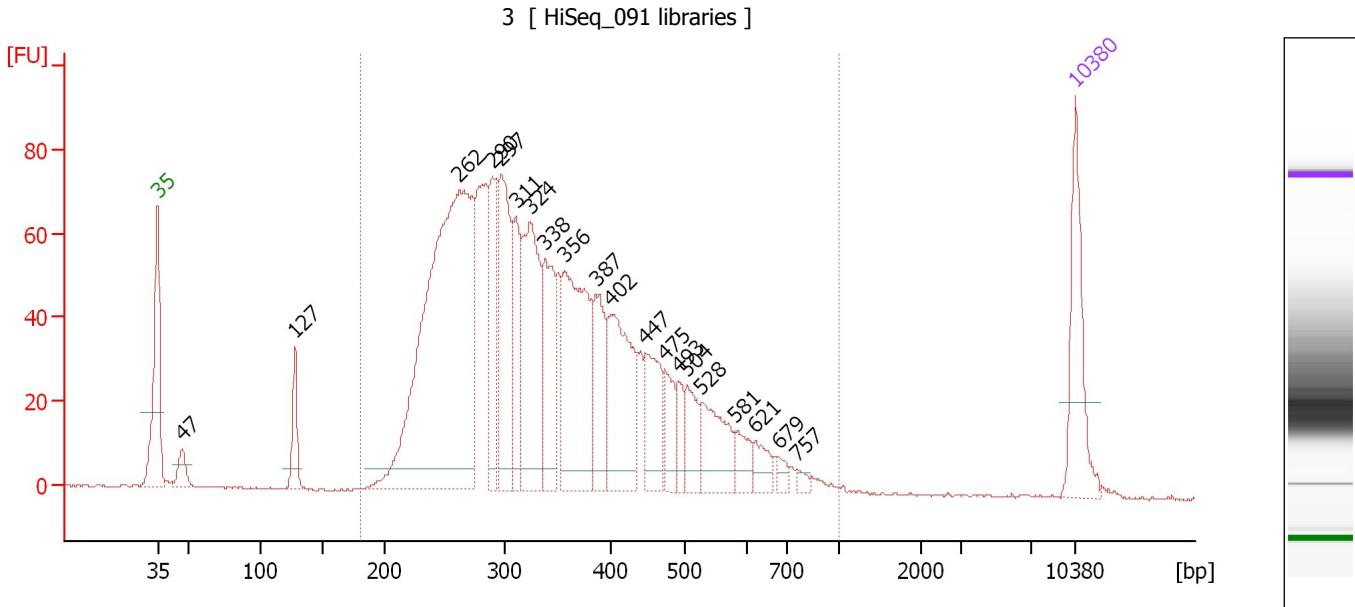
Region table for sample 3 : 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
178	365	1,353	2,281.9	15,906.9	98	35.0	3,370.21	■

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 3

Number of peaks found: 20 Corr. Area 1: 1,779.4
 Noise: 0.2

Peak table for sample 4 : 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	47	27.36	876.9		44.88
3	127	49.43	587.8		53.48
4	262	713.39	4,123.4		66.02
5	290	107.28	561.0		68.56
6	297	166.15	847.9		69.21
7	311	86.85	423.7		70.34
8	324	187.87	878.4		71.42
9	338	113.27	507.5		72.55
10	356	219.98	935.2		74.01
11	387	88.17	345.2		76.45
12	402	148.97	561.0		77.62
13	447	75.00	254.1		80.16
14	475	38.71	123.6		81.71
15	493	24.74	76.0		82.74
16	504	40.85	122.7		83.36
17	528	70.84	203.3		84.48
18	581	26.02	67.8		87.02
19	621	21.82	53.2		88.57
20	679	10.46	23.3		90.36
21	757	6.62	13.3		91.77
22	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

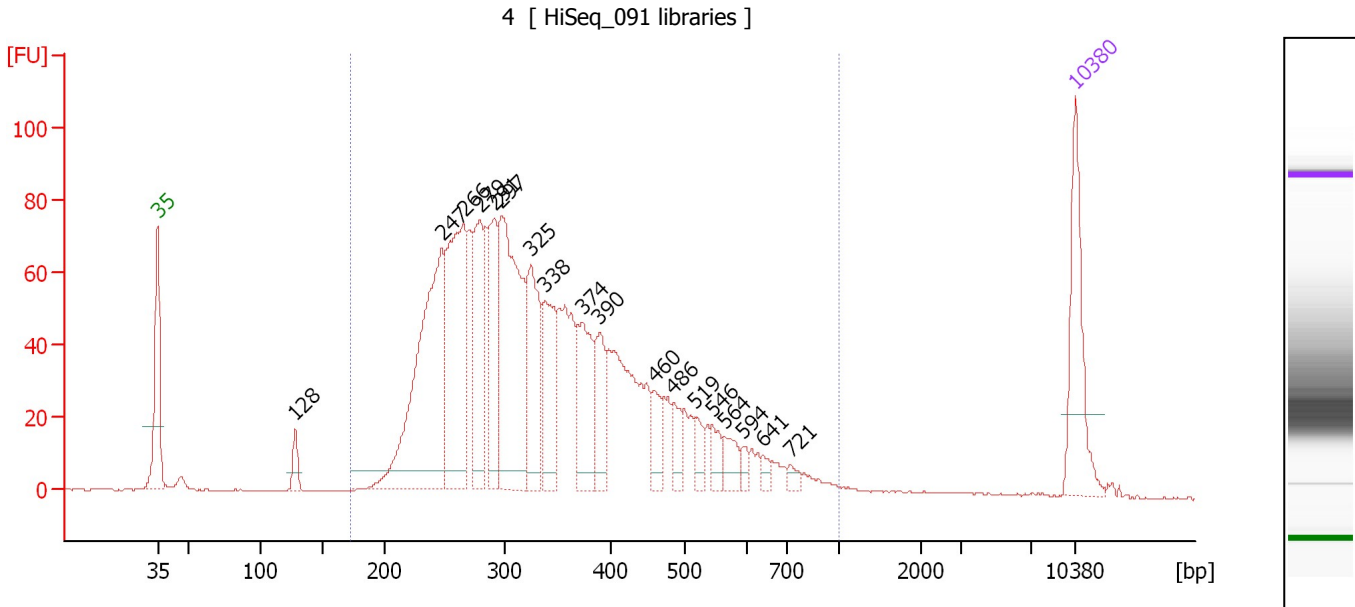
... Region table for sample 4 : 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Color
180	358	1,000	1,779.4	11,610.8	97	31.9	2,445.71	■

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 4

Number of peaks found: 18 Corr. Area 1: 1,782.0
 Noise: 0.2

Peak table for sample 5 : 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	128	20.61	244.6		53.50
3	247	316.56	1,938.3		64.67
4	266	226.99	1,294.3		66.35
5	279	117.37	636.7		67.60
6	291	102.35	532.3		68.70
7	297	247.46	1,262.3		69.23
8	325	114.33	533.4		71.48
9	338	90.93	407.6		72.53
10	374	88.43	358.3		75.41
11	390	56.88	220.9		76.71
12	460	34.09	112.3		80.88
13	486	23.37	72.8		82.36
14	519	16.18	47.3		84.04
15	546	17.13	47.5		85.34
16	564	21.15	56.8		86.20
17	594	8.27	21.1		87.64
18	641	7.86	18.6		89.17
19	721	7.62	16.0		91.28
20	10,380	75.00	10.9	Upper Marker	113.00

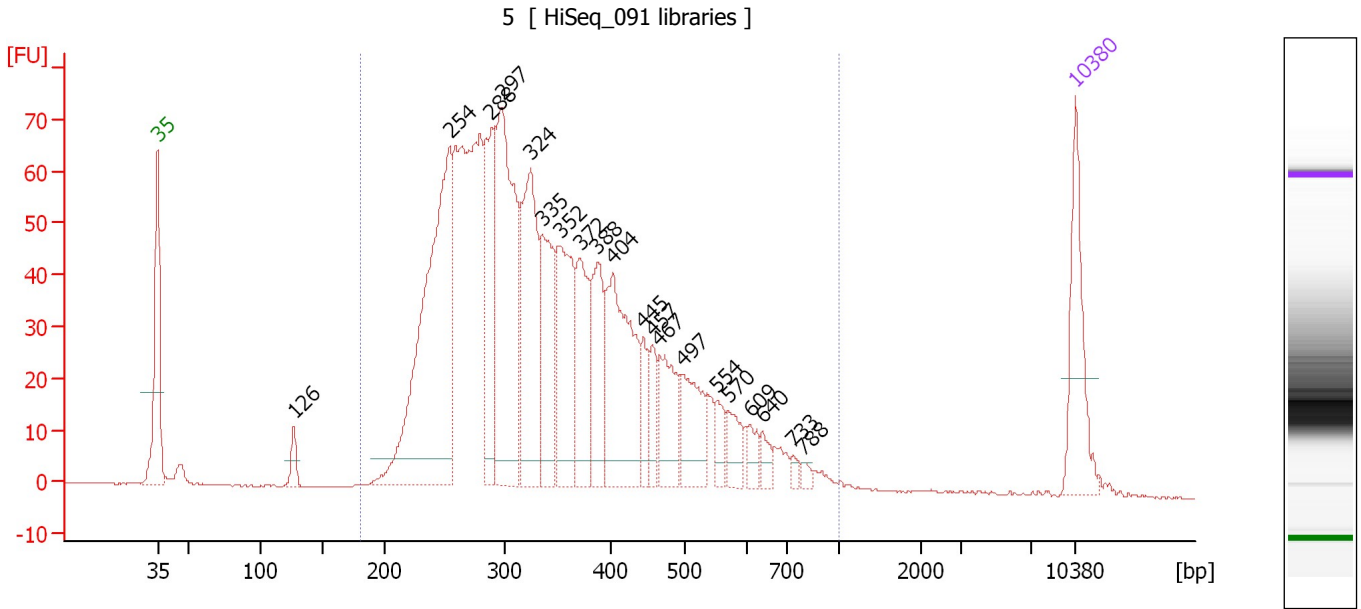
Region table for sample 5 : 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
172	355	1,000	1,782.0	9,764.9	97	33.3	2,031.11	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 5

Number of peaks found: 20 Corr. Area 1: 1,595.2
 Noise: 0.1

Peak table for sample 6 : 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	126	20.26	242.7		53.39
3	254	444.76	2,652.1		65.28
4	288	144.80	760.6		68.44
5	297	290.11	1,477.8		69.26
6	324	190.84	891.4		71.45
7	335	121.70	549.9		72.32
8	352	144.82	622.8		73.68
9	372	99.74	406.5		75.23
10	388	93.26	364.1		76.54
11	404	180.05	675.6		77.71
12	445	33.55	114.2		80.04
13	457	31.67	105.0		80.72
14	467	73.33	237.7		81.30
15	497	72.84	221.9		83.00
16	554	20.94	57.3		85.72
17	570	30.34	80.6		86.50
18	609	18.07	45.0		88.19
19	640	13.61	32.2		89.17
20	733	6.18	12.8		91.45
21	788	5.84	11.2		92.17
22	10,380	75.00	10.9	Upper Marker	113.00

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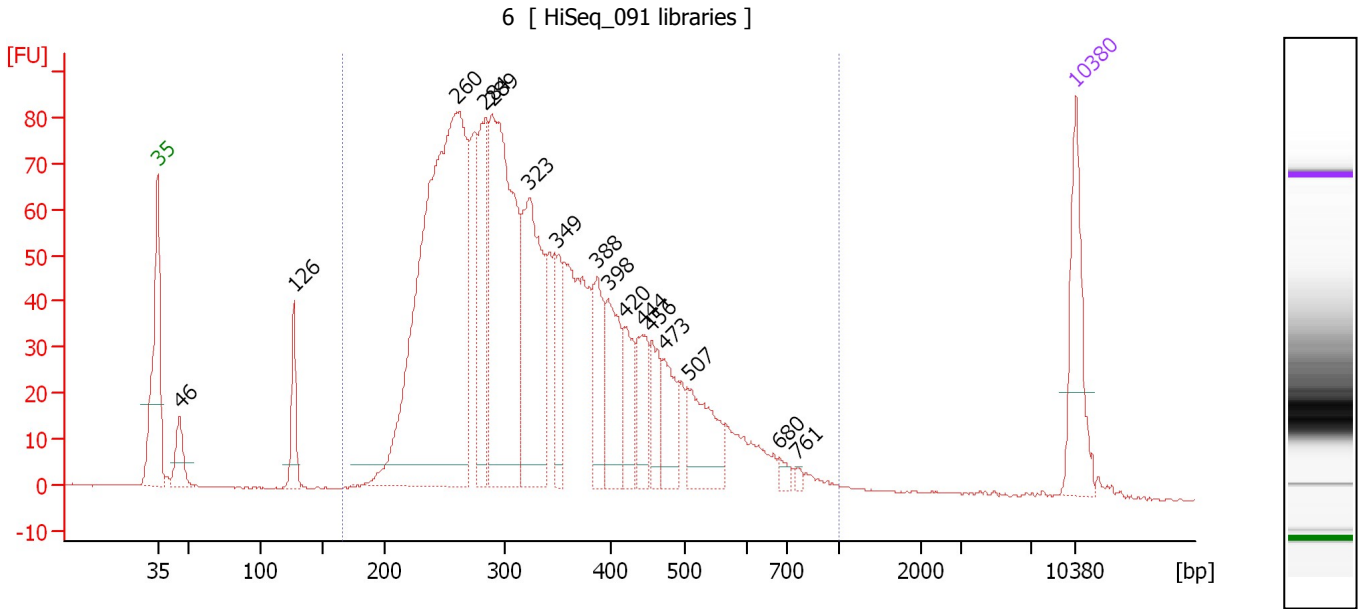
Electropherogram Summary Continued ...**... Region table for sample 6 : 5**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Co lor
181	359	1,000	1,595.2	12,260.0	98	32.5	2,587.13	■

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 6

Number of peaks found: 16 Corr. Area 1: 1,847.6
 Noise: 0.2

Peak table for sample 7 : 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	46	47.48	1,566.7		44.67
3	126	60.92	730.7		53.37
4	260	792.22	4,610.1		65.86
5	284	131.77	703.2		68.02
6	289	386.24	2,023.1		68.51
7	323	225.55	1,058.9		71.31
8	349	62.02	269.6		73.38
9	388	75.88	296.4		76.53
10	398	87.97	334.6		77.36
11	420	53.32	192.2		78.64
12	444	56.46	192.8		79.97
13	456	44.24	147.0		80.65
14	473	53.86	172.4		81.64
15	507	79.28	237.1		83.46
16	680	7.64	17.0		90.39
17	761	4.15	8.3		91.81
18	10,380	75.00	10.9	Upper Marker	113.00

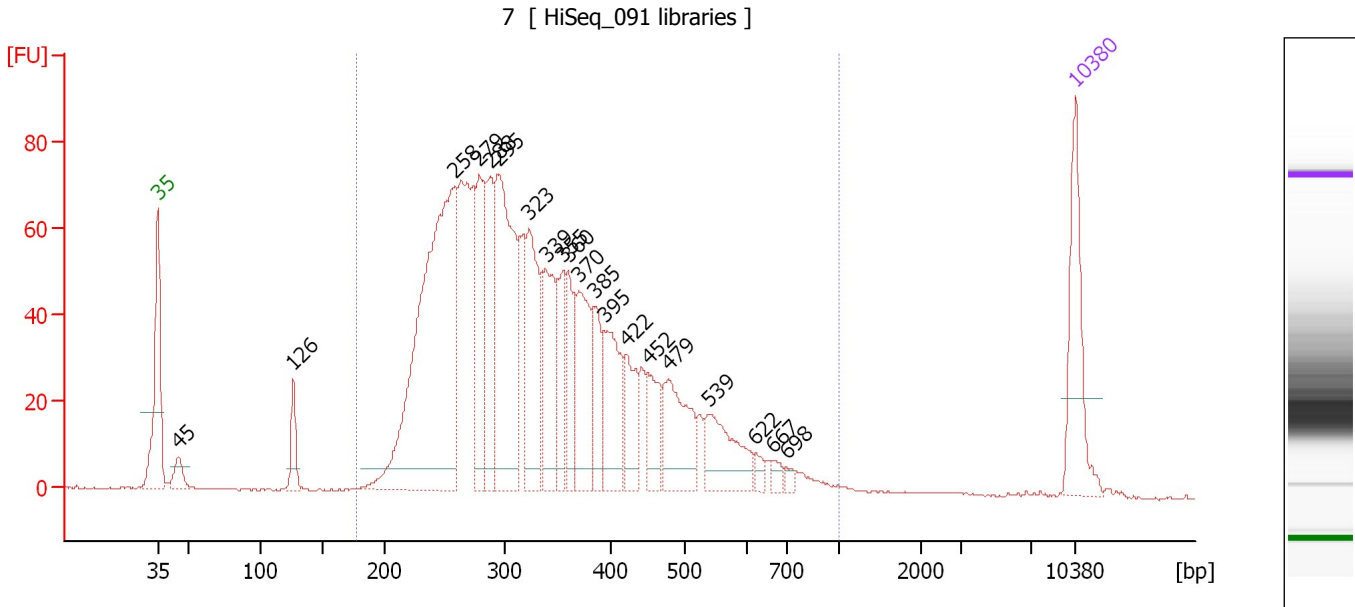
Region table for sample 7 : 6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
165	347	1,000	1,847.6	12,833.5	96	32.1	2,626.84	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 7

Number of peaks found: 20 Corr. Area 1: 1,676.4
 Noise: 0.2

Peak table for sample 8 : 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	45	23.95	799.9		44.59
3	126	36.00	432.2		53.36
4	258	520.89	3,057.0		65.66
5	279	108.28	588.7		67.54
6	288	113.74	598.7		68.38
7	295	244.55	1,254.3		69.08
8	323	124.46	583.4		71.36
9	339	102.66	458.3		72.65
10	355	58.31	248.5		73.93
11	360	60.18	253.0		74.33
12	370	96.42	394.4		75.12
13	385	58.23	229.4		76.26
14	395	85.89	329.8		77.06
15	422	51.28	184.1		78.74
16	452	42.27	141.7		80.43
17	479	88.01	278.3		81.97
18	539	71.85	202.1		84.99
19	622	8.91	21.7		88.61
20	667	9.27	21.0		90.00
21	698	5.57	12.1		90.94
22	10,380	75.00	10.9	Upper Marker	113.00

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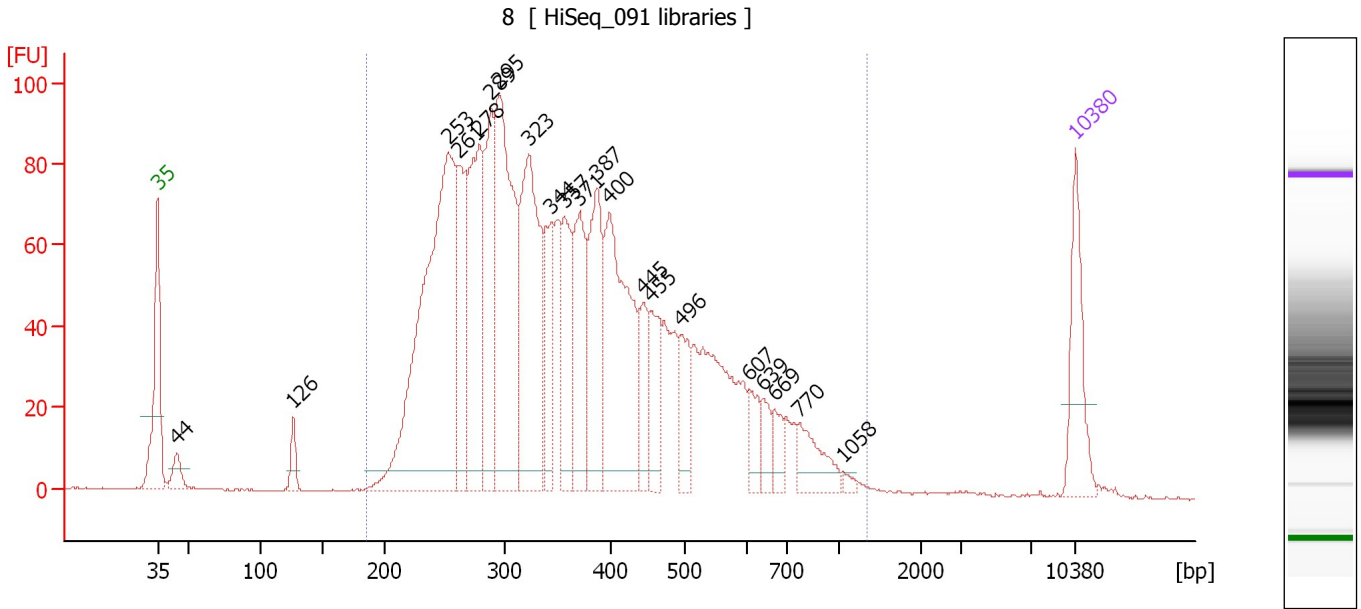
Electropherogram Summary Continued ...**... Region table for sample 8 : Z**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Co lor
178	349	1,000	1,676.4	11,000.4	97	32.1	2,268.73	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-28\2015-05-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 8

Number of peaks found: 21 Corr. Area 1: 2,322.8
 Noise: 0.2

Peak table for sample 9 : 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	44	30.06	1,023.9		44.45
3	126	27.67	332.3		53.36
4	253	621.40	3,723.8		65.17
5	261	128.13	743.8		65.92
6	278	243.29	1,323.9		67.52
7	289	175.70	921.9		68.47
8	295	344.26	1,766.2		69.07
9	323	291.38	1,367.7		71.32
10	344	92.88	409.0		73.02
11	357	104.03	442.0		74.02
12	371	137.38	561.1		75.17
13	387	156.51	612.3		76.47
14	400	260.37	986.8		77.47
15	445	62.97	214.5		80.03
16	455	67.12	223.7		80.58
17	496	59.19	180.7		82.93
18	607	32.57	81.3		88.13
19	639	26.52	62.8		89.13
20	669	25.07	56.8		90.03
21	770	52.71	103.7		91.93
22	1,058	5.61	8.0		95.34
23	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-28\2015-05-28_001.xad

Created: 5/28/2015 9:50:19 AM
Modified: 5/28/2015 10:42:35 AM

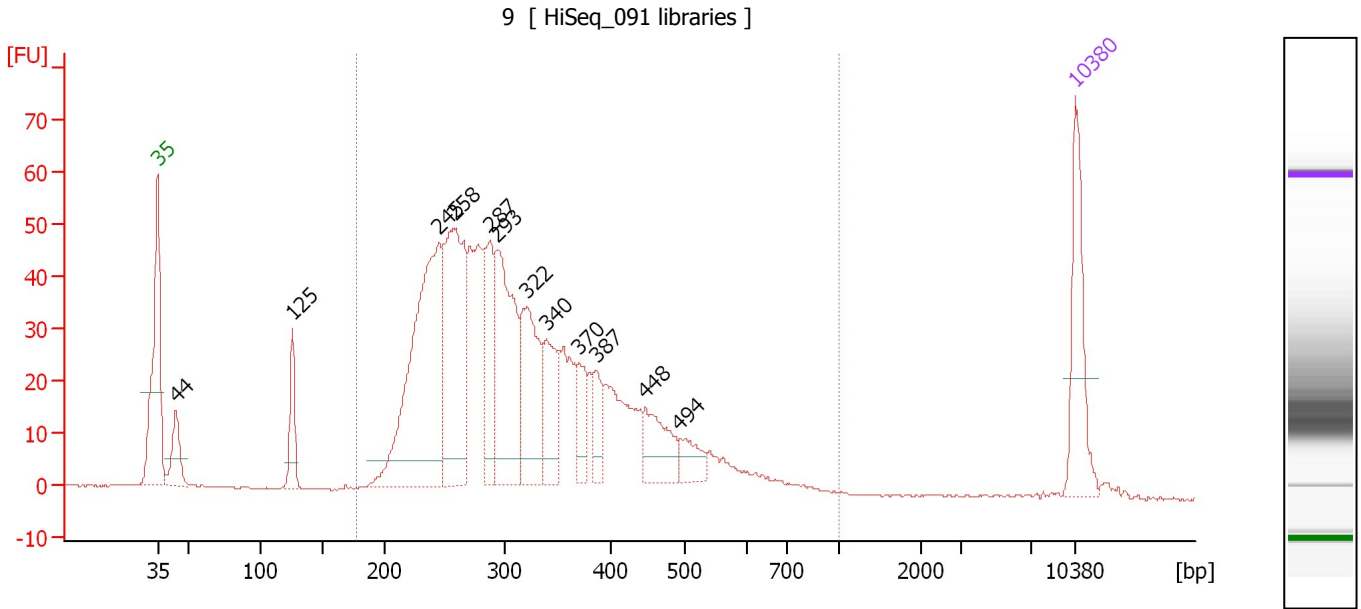
Electropherogram Summary Continued ...**... Region table for sample 9 : 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Co lor
185	385	1,347	2,322.8	15,476.8	98	38.0	3,383.63	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-28\2015-05-28_001.xad

Created: 5/28/2015 9:50:19 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : 9

Number of peaks found: 12 Corr. Area 1: 1,017.3
 Noise: 0.1

Peak table for sample 10 : 9

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	44	57.67	1,976.2		44.41
3	125	53.28	644.0		53.28
4	245	360.30	2,231.0		64.42
5	258	258.57	1,516.1		65.68
6	287	103.88	547.5		68.35
7	293	188.47	974.7		68.85
8	322	130.25	613.7		71.22
9	340	75.13	335.0		72.68
10	370	39.22	160.6		75.10
11	387	34.61	135.5		76.46
12	448	61.47	208.0		80.19
13	494	27.98	85.8		82.81
14	10,380	75.00	10.9	Upper Marker	113.00

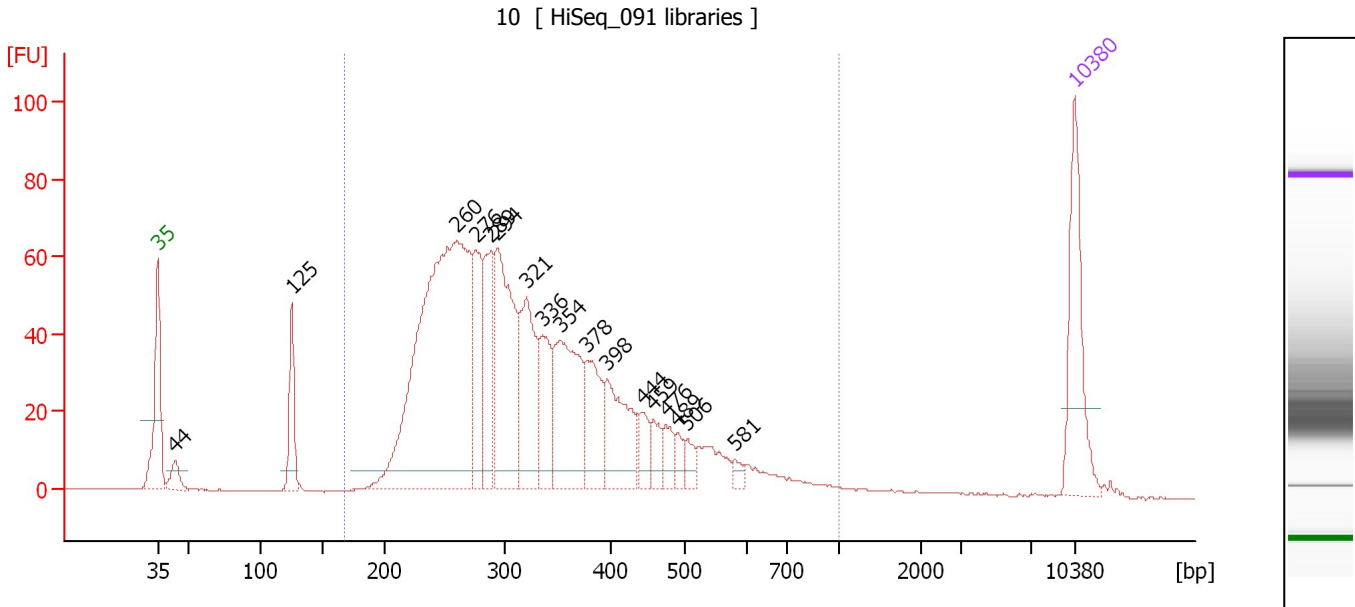
Region table for sample 10 : 9

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
178	330	1,000	1,017.3	8,897.6	95	30.1	1,757.16	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-28\2015-05-28_001.xad

Created: 5/28/2015 9:50:19 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : 10

Number of peaks found: 17 Corr. Area 1: 1,379.3
 Noise: 0.1

Peak table for sample 11 : 10

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	44	21.96	762.5		44.32
3	125	60.69	737.4		53.22
4	260	568.50	3,312.8		65.82
5	276	87.46	480.0		67.30
6	289	84.69	444.3		68.47
7	294	182.91	943.4		68.93
8	321	114.77	542.1		71.16
9	336	60.97	274.9		72.38
10	354	137.68	589.5		73.81
11	378	68.18	273.2		75.74
12	398	78.88	300.5		77.31
13	444	23.88	81.6		79.96
14	459	19.75	65.2		80.82
15	476	19.06	60.7		81.79
16	489	12.92	40.0		82.55
17	506	13.43	40.2		83.41
18	581	7.45	19.4		87.02
19	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
167	340	1,000	1,379.3	8,195.0	94	32.9	1,645.08	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-28\2015-05-28_001.xad

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Modified: 5/28/2015 10:42:35 AM

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