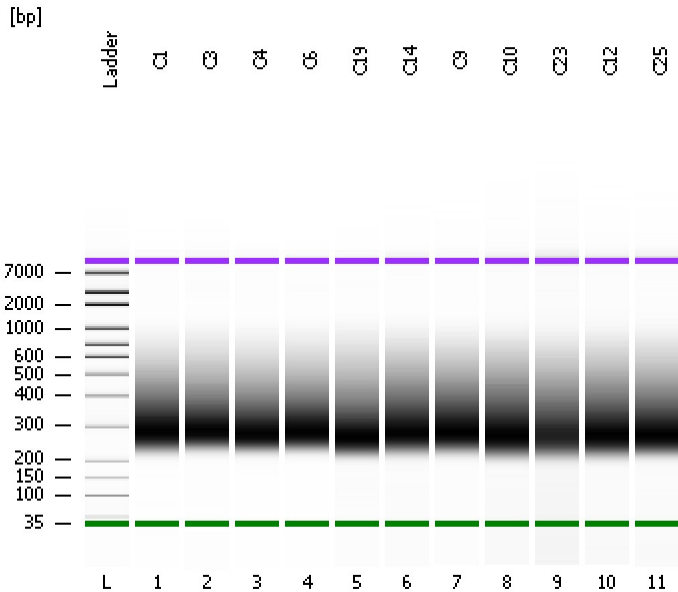


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
Modified: 10/9/2017 11:36:59 AM

Electrophoresis File Run Summary



Instrument Information:

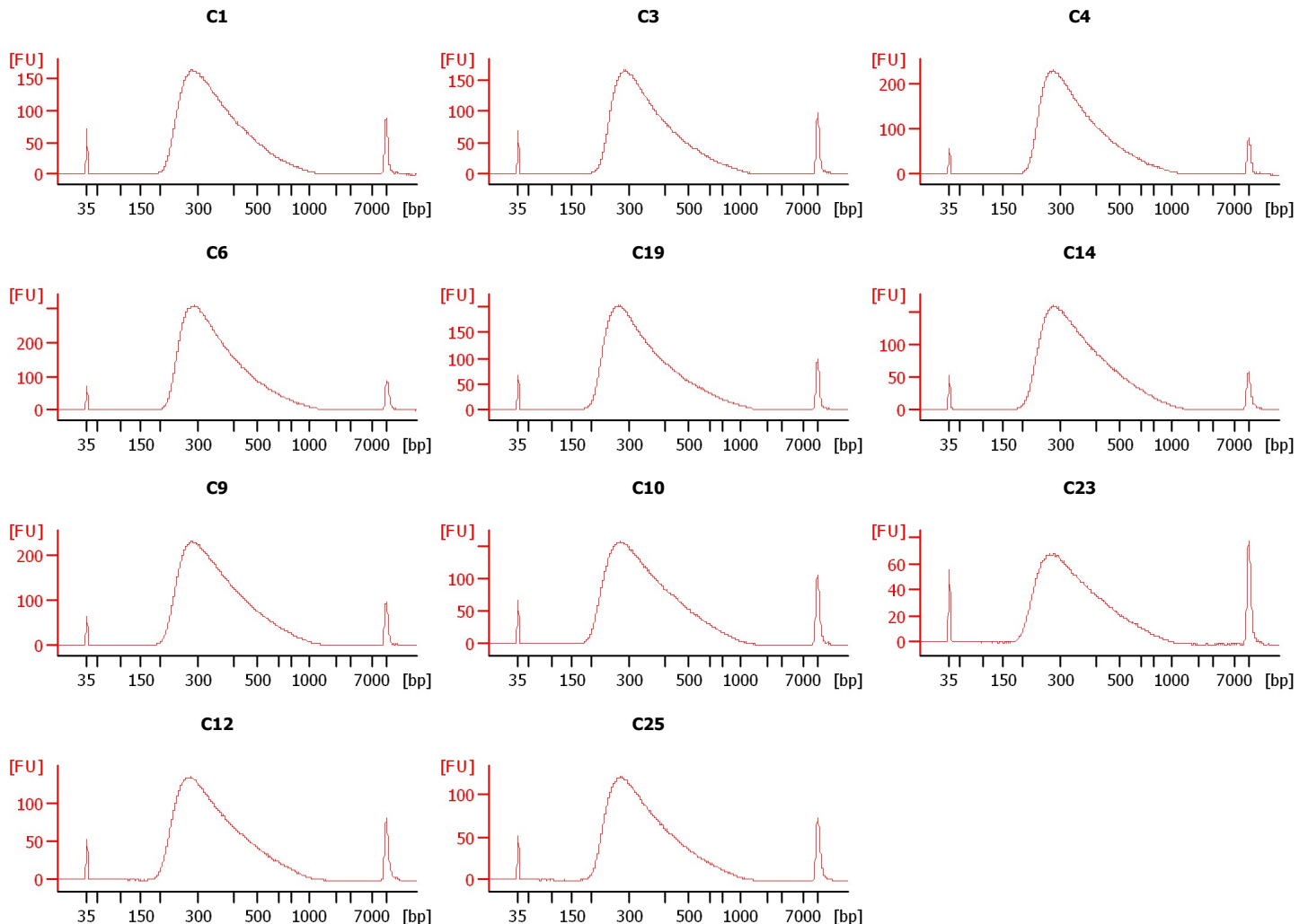
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
 Modified: 10/9/2017 11:36:59 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C1		<input type="checkbox"/>	✓			
C3		<input type="checkbox"/>	✓			
C4		<input type="checkbox"/>	✓			
C6		<input type="checkbox"/>	✓			
C19		<input type="checkbox"/>	✓			
C14		<input type="checkbox"/>	✓			
C9		<input type="checkbox"/>	✓			
C10		<input type="checkbox"/>	✓			
C23		<input type="checkbox"/>	✓			
C12		<input type="checkbox"/>	✓			
C25		<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\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
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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

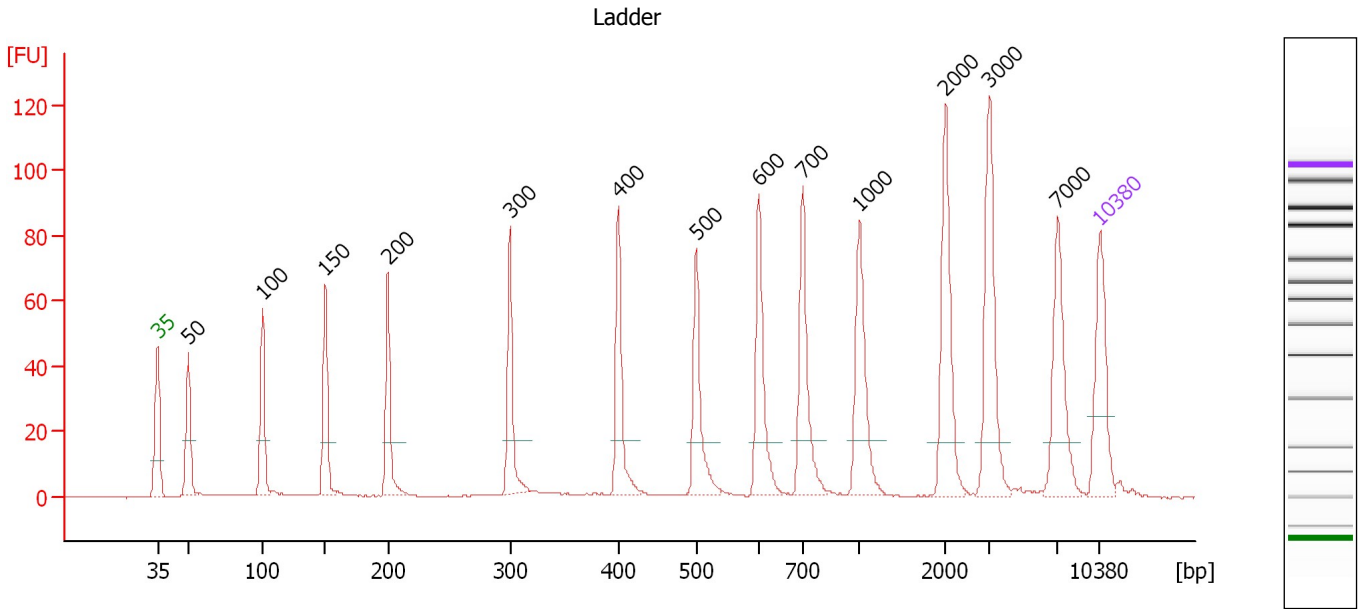
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

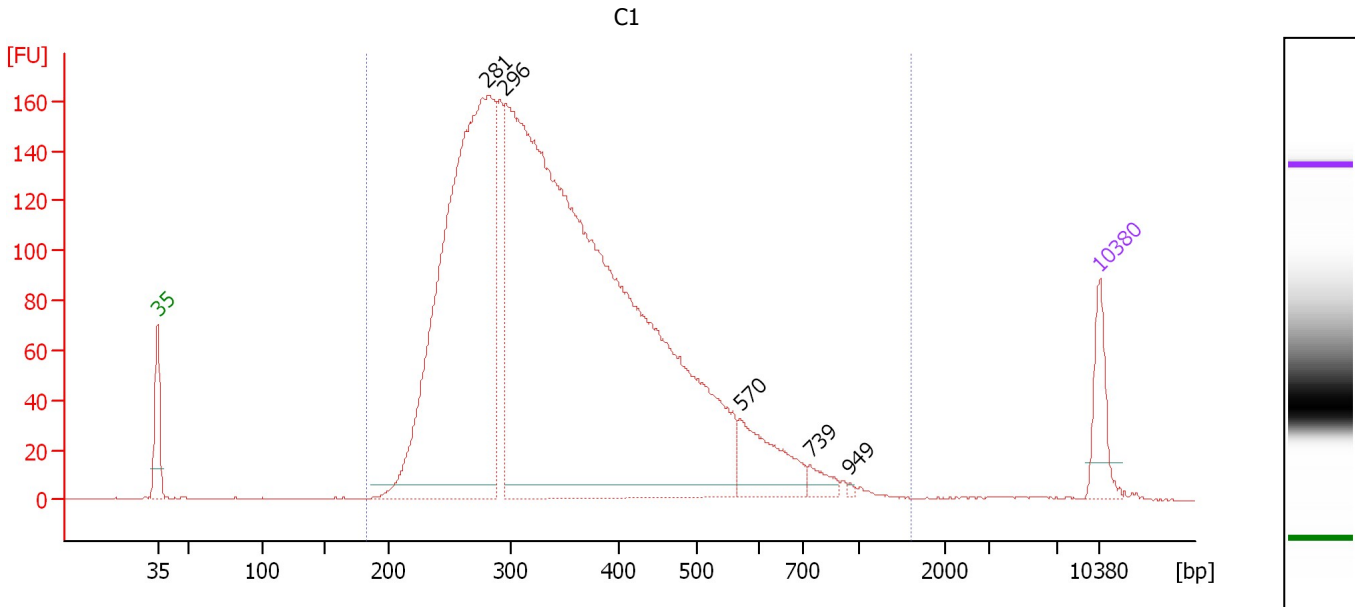
Peak table for Ladder

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	45.27
3	100	150.00	2,272.7	Ladder Peak	50.78
4	150	150.00	1,515.2	Ladder Peak	55.45
5	200	150.00	1,136.4	Ladder Peak	60.13
6	300	150.00	757.6	Ladder Peak	69.16
7	400	150.00	568.2	Ladder Peak	77.21
8	500	150.00	454.5	Ladder Peak	83.00
9	600	150.00	378.8	Ladder Peak	87.68
10	700	150.00	324.7	Ladder Peak	90.92
11	1,000	150.00	227.3	Ladder Peak	95.13
12	2,000	150.00	113.6	Ladder Peak	101.52
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : C1

Number of peaks found: 5 Corr. Area 1: 3,648.5
 Noise: 0.2

Peak table for sample 1 : C1

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	281	1,741.62	9,375.4		67.48
3	296	3,513.25	17,968.5		68.82
4	570	163.69	435.3		86.26
5	739	32.55	66.8		91.46
6	949	3.61	5.8		94.41
7	10,380	75.00	10.9	Upper Marker	113.00

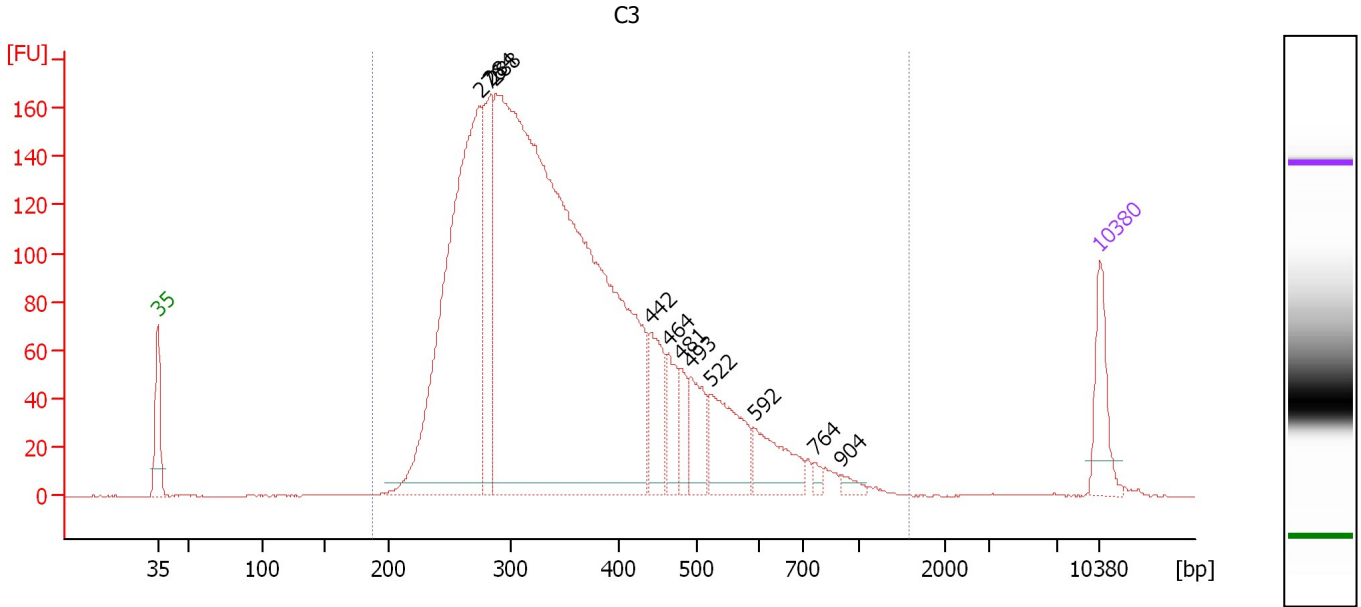
Region table for sample 1 : C1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
183	1,590	364	3,648.5	24,525.4	5,261.84	99	34.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

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 Modified: 10/9/2017 11:36:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C3

Number of peaks found: 11 Corr. Area 1: 3,488.1
 Noise: 0.1

Peak table for sample 2 : C3

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	276	1,063.06	5,846.3		66.95
3	284	302.77	1,614.4		67.73
4	288	2,801.03	14,724.1		68.10
5	442	127.96	438.9		79.63
6	464	77.92	254.4		80.92
7	481	52.91	166.8		81.88
8	493	96.80	297.2		82.62
9	522	163.45	474.1		84.04
10	592	101.09	258.7		87.31
11	764	11.29	22.4		91.81
12	904	13.17	22.1		93.79
13	10,380	75.00	10.9	Upper Marker	113.00

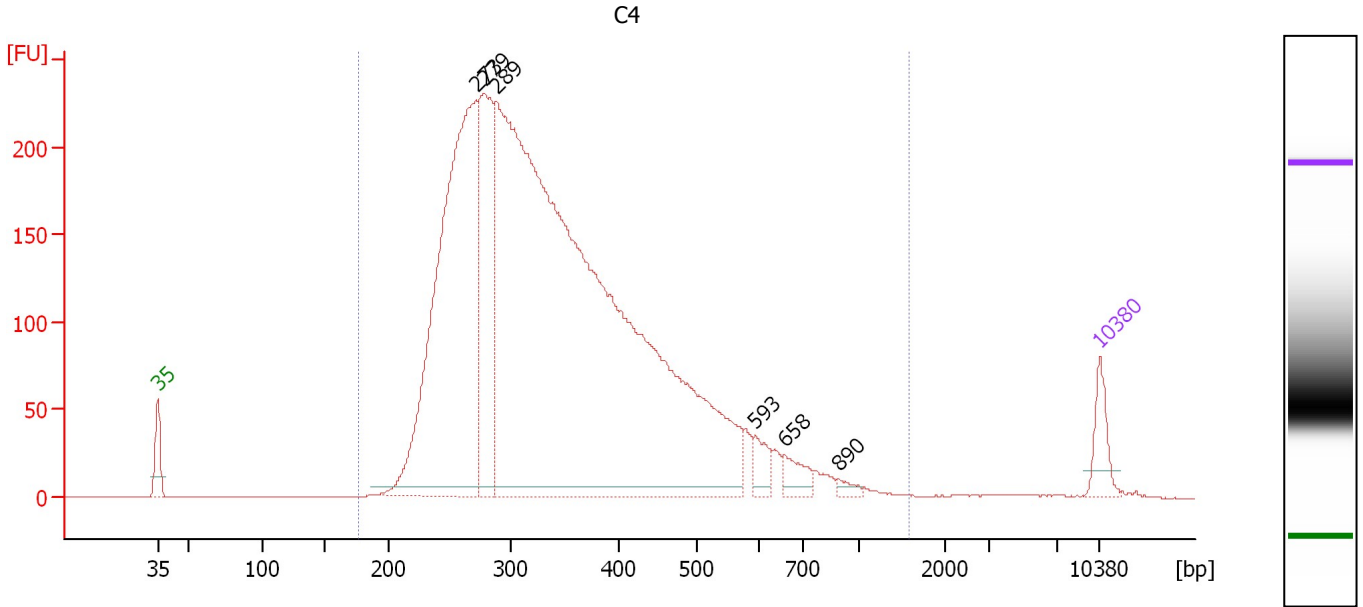
Region table for sample 2 : C3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
188	1,586	369	3,488.1	21,238.3	4,615.75	99	34.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : C4

Number of peaks found: 6 Corr. Area 1: 4,834.8
 Noise: 0.1

Peak table for sample 3 : C4

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	273	1,986.04	11,042.0		66.68
3	279	683.65	3,716.1		67.24
4	289	5,420.38	28,407.3		68.17
5	593	63.96	163.4		87.36
6	658	66.95	154.2		89.56
7	890	19.16	32.6		93.58
8	10,380	75.00	10.9	Upper Marker	113.00

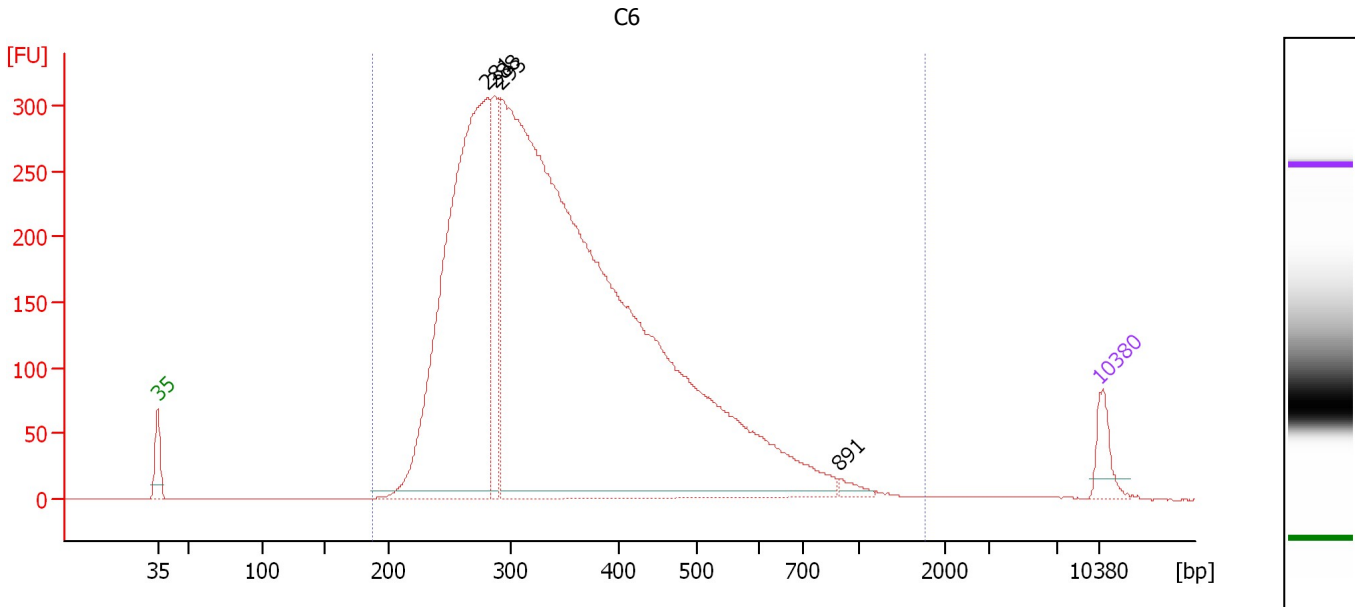
Region table for sample 3 : C4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
177	1,576	359	4,834.8	36,349.7	7,695.81	99	34.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

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 Modified: 10/9/2017 11:36:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C6

Number of peaks found: 4 Corr. Area 1: 6,477.2
 Noise: 0.1

Peak table for sample 4 : C6

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	281	2,588.51	13,938.7		67.48
3	288	412.62	2,172.3		68.06
4	293	6,753.24	34,969.4		68.49
5	891	30.62	52.1		93.59
6	10,380	75.00	10.9	Upper Marker	113.00

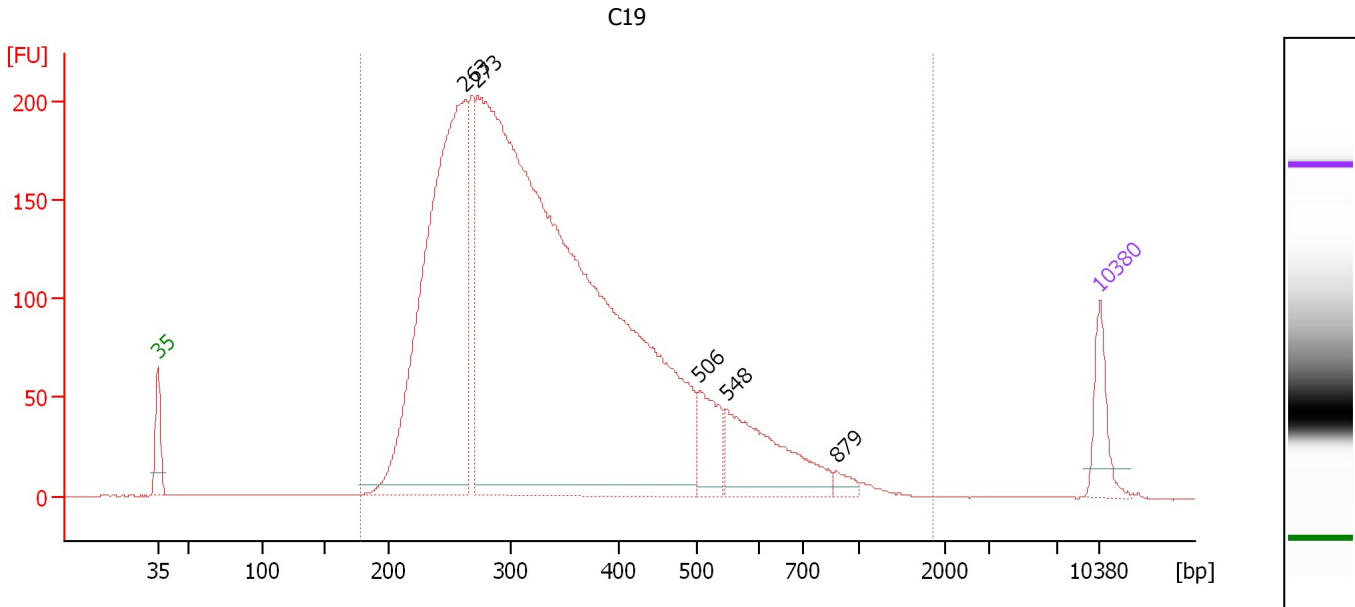
Region table for sample 4 : C6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
188	1,772	367	6,477.2	41,260.6	8,906.88	99	36.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

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 Modified: 10/9/2017 11:36:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : C19

Number of peaks found: 5 Corr. Area 1: 4,502.2
 Noise: 0.2

Peak table for sample 5 : C19

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	263	1,492.65	8,584.0		65.86
3	273	3,942.12	21,859.1		66.74
4	506	134.84	403.9		83.27
5	548	282.41	781.1		85.24
6	879	21.46	37.0		93.43
7	10,380	75.00	10.9	Upper Marker	113.00

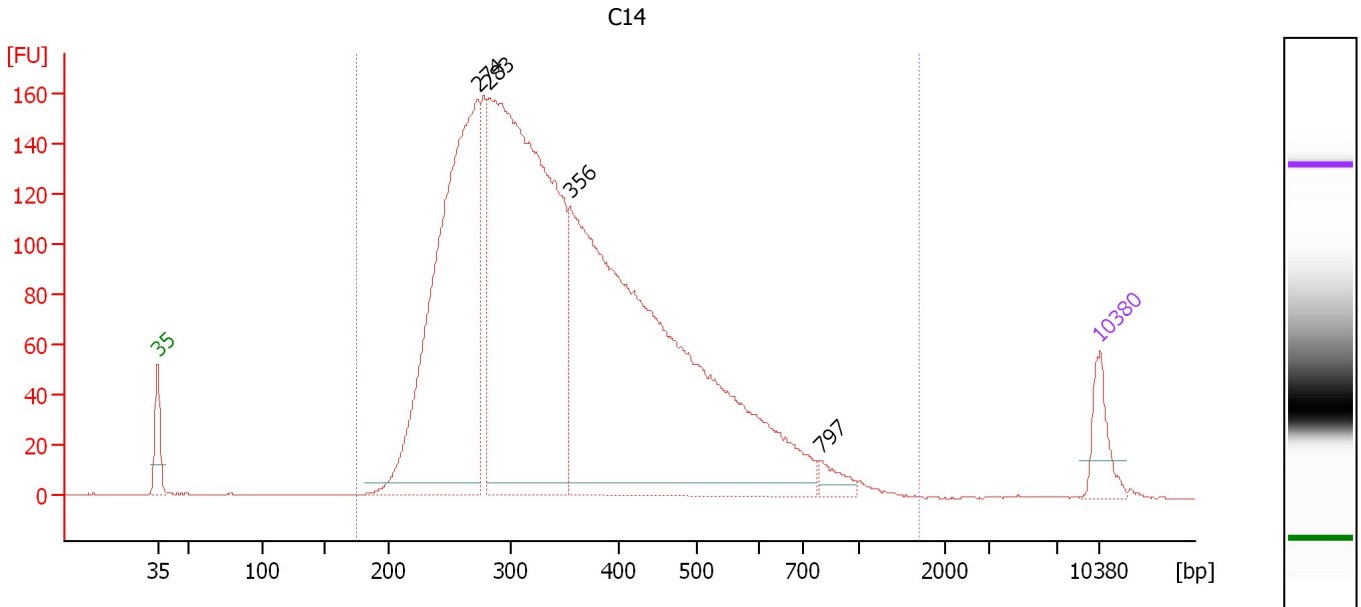
Region table for sample 5 : C19

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
178	1,848	358	4,502.2	27,358.5	5,651.32	99	39.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
 Modified: 10/9/2017 11:36:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C14

Number of peaks found: 4 Corr. Area 1: 3,666.5
 Noise: 0.1

Peak table for sample 6 : C14

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	274	1,629.99	9,011.7		66.81
3	283	2,238.11	11,987.5		67.61
4	356	2,399.60	10,222.8		73.64
5	797	43.51	82.7		92.27
6	10,380	75.00	10.9	Upper Marker	113.00

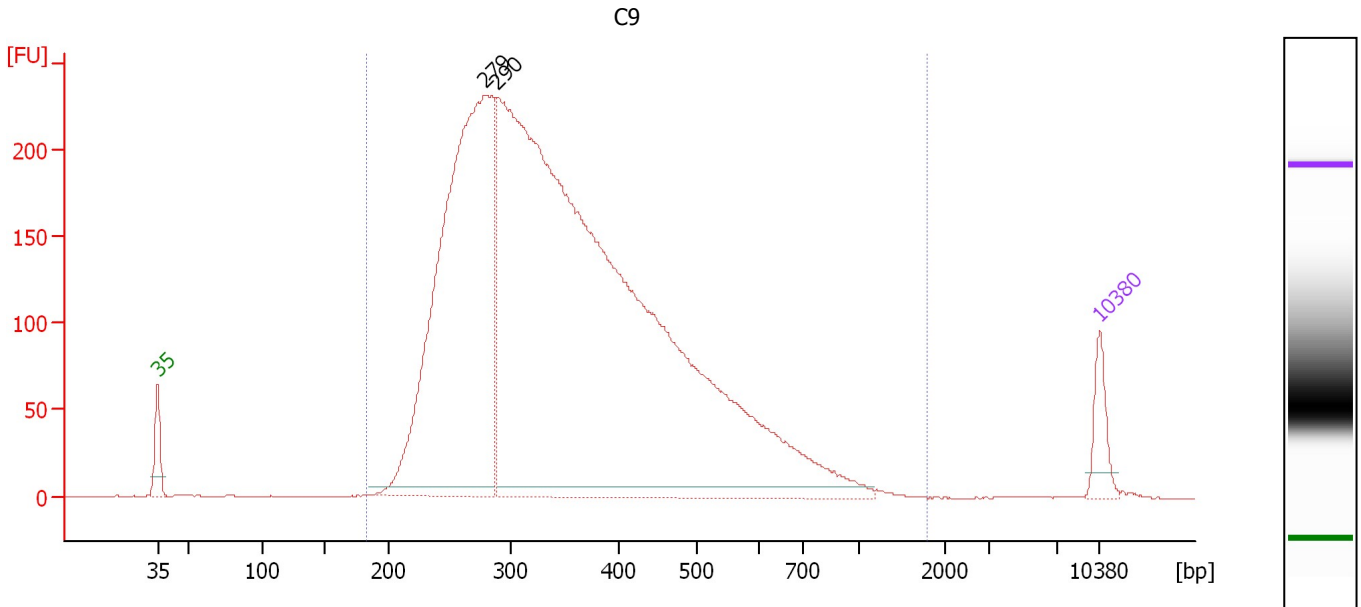
Region table for sample 6 : C14

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
175	1,687	369	3,666.5	28,962.0	6,216.77	99	36.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
 Modified: 10/9/2017 11:36:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C9

Number of peaks found: 2 Corr. Area 1: 5,210.2
 Noise: 0.1

Peak table for sample 7 : C9

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	279	2,207.95	11,994.0		67.25
3	290	5,391.12	28,196.9		68.23
4	10,380	75.00	10.9	Upper Marker	113.00

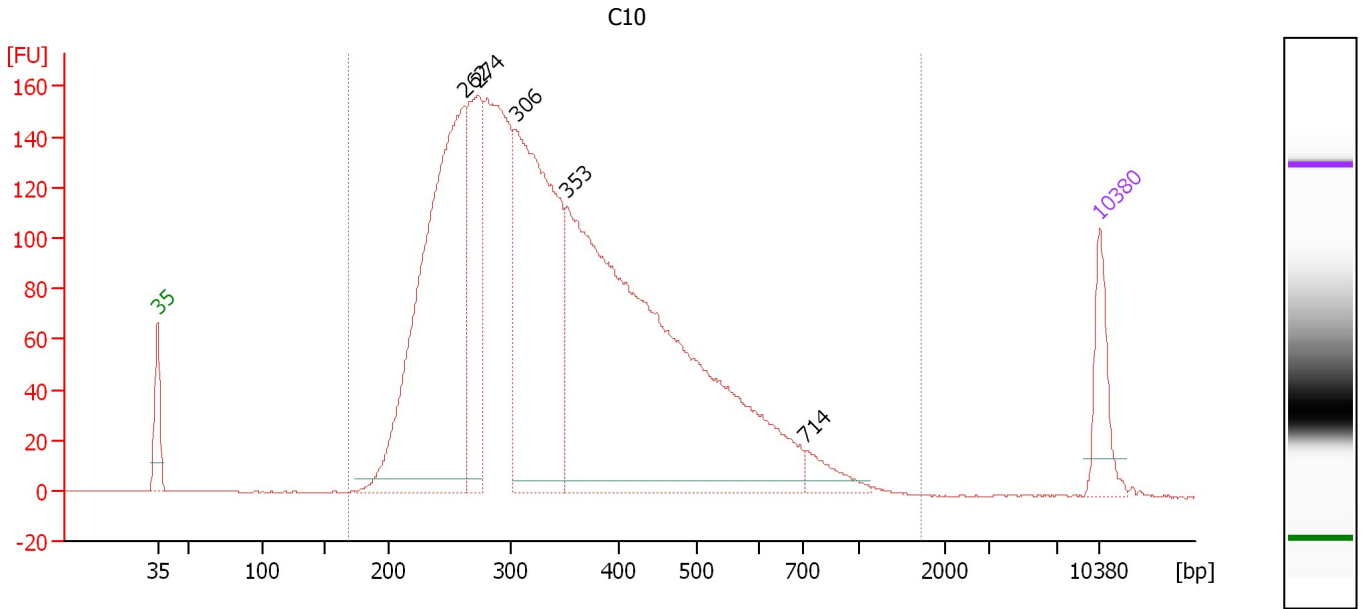
Region table for sample 7 : C9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
183	1,776	369	5,210.2	31,709.1	6,833.93	99	35.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : C10

Number of peaks found: 5 Corr. Area 1: 3,765.4
 Noise: 0.1

Peak table for sample 8 : C10

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	262	1,029.85	5,946.5		65.76
3	274	353.17	1,949.7		66.85
4	306	794.01	3,929.7		69.65
5	353	1,554.88	6,671.5		73.44
6	714	48.07	101.9		91.12
7	10,380	75.00	10.9	Upper Marker	113.00

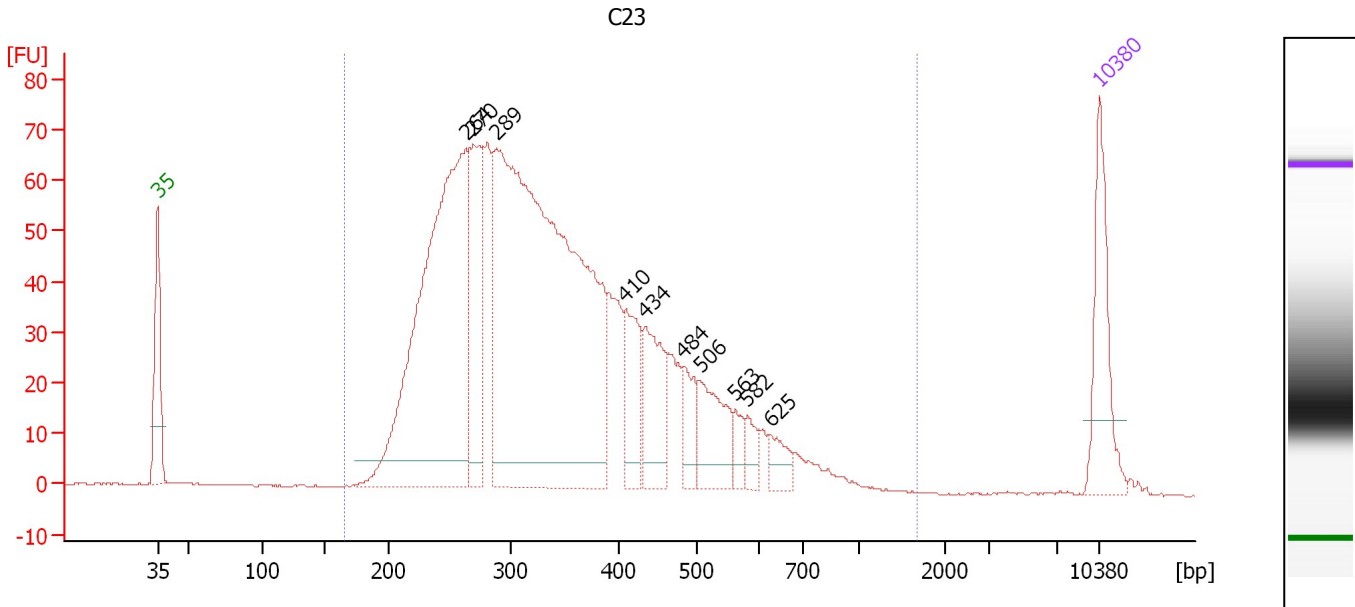
Region table for sample 8 : C10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
168	1,716	362	3,765.4	20,193.8	4,216.50	99	36.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : C23

Number of peaks found: 10 Corr. Area 1: 1,622.2
 Noise: 0.1

Peak table for sample 9 : C23

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	264	636.12	3,652.0		65.90
3	270	164.52	922.4		66.47
4	289	1,010.99	5,295.2		68.19
5	410	75.83	280.5		77.77
6	434	93.58	326.8		79.17
7	484	40.36	126.3		82.09
8	506	75.17	225.1		83.28
9	563	18.26	49.2		85.94
10	582	19.67	51.2		86.82
11	625	23.00	55.8		88.49
12	10,380	75.00	10.9	Upper Marker	113.00

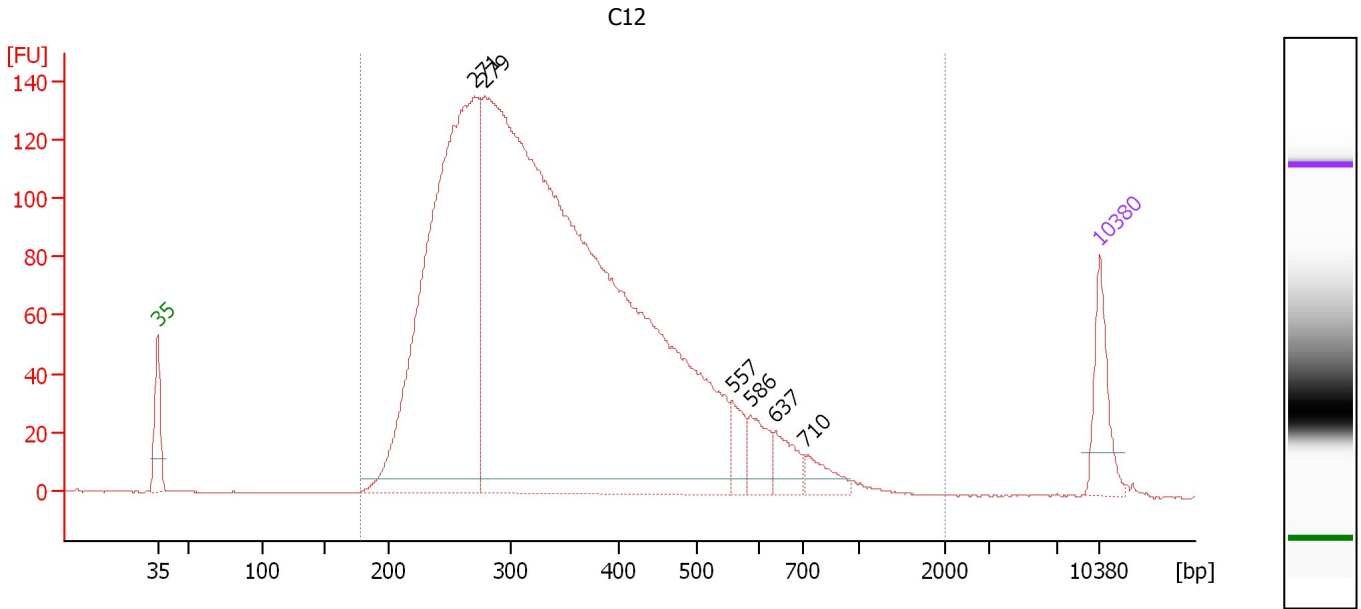
Region table for sample 9 : C23

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
165	1,660	356	1,622.2	11,635.2	2,410.16	99	35.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : C12

Number of peaks found: 6 Corr. Area 1: 3,113.9
 Noise: 0.1

Peak table for sample 10 : C12

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	271	1,378.06	7,698.1		66.56
3	279	3,255.37	17,656.6		67.29
4	557	49.66	135.1		85.67
5	586	59.99	155.0		87.03
6	637	51.00	121.4		88.86
7	710	41.25	88.0		91.06
8	10,380	75.00	10.9	Upper Marker	113.00

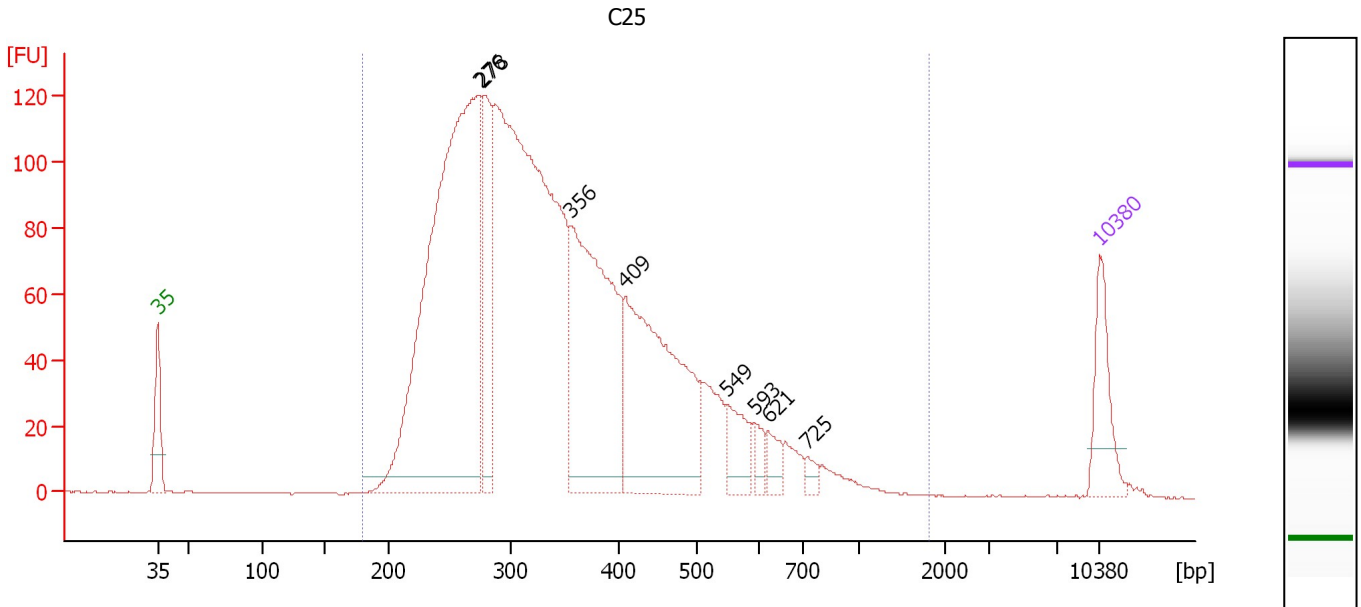
Region table for sample 10 : C12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
178	1,991	361	3,113.9	21,407.0	4,467.74	99	38.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : C25

Number of peaks found: 8 Corr. Area 1: 2,666.7
 Noise: 0.1

Peak table for sample 11 : C25

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	276	1,175.51	6,464.1		66.95
3	278	214.10	1,165.0		67.21
4	356	523.40	2,225.1		73.70
5	409	449.12	1,661.8		77.76
6	549	66.20	182.6		85.31
7	593	23.66	60.4		87.36
8	621	27.37	66.7		88.37
9	725	14.48	30.3		91.27
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : C25

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
180	1,804	360	2,666.7	18,772.2	3,936.96	100	36.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09_001.xad

Created: 10/9/2017 10:53:42 AM
Modified: 10/9/2017 11:36:59 AM

Gel Image

