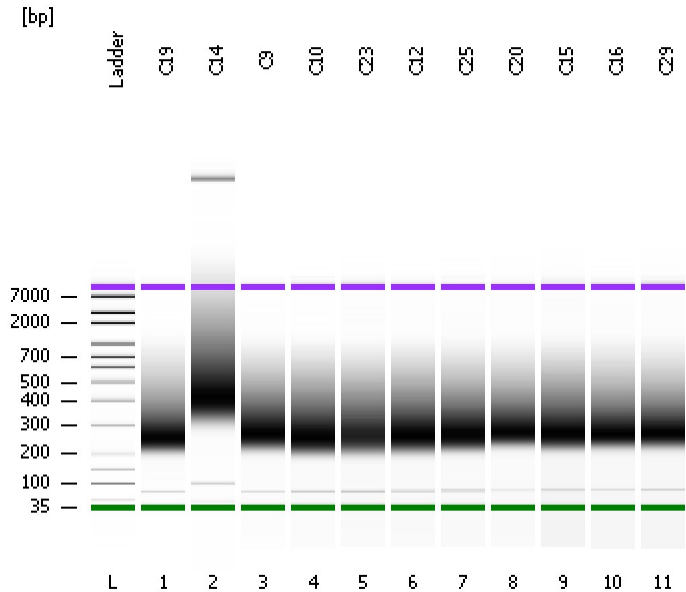


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
Modified: 10/4/2017 4:54:22 PM

Electrophoresis File Run Summary



Instrument Information:

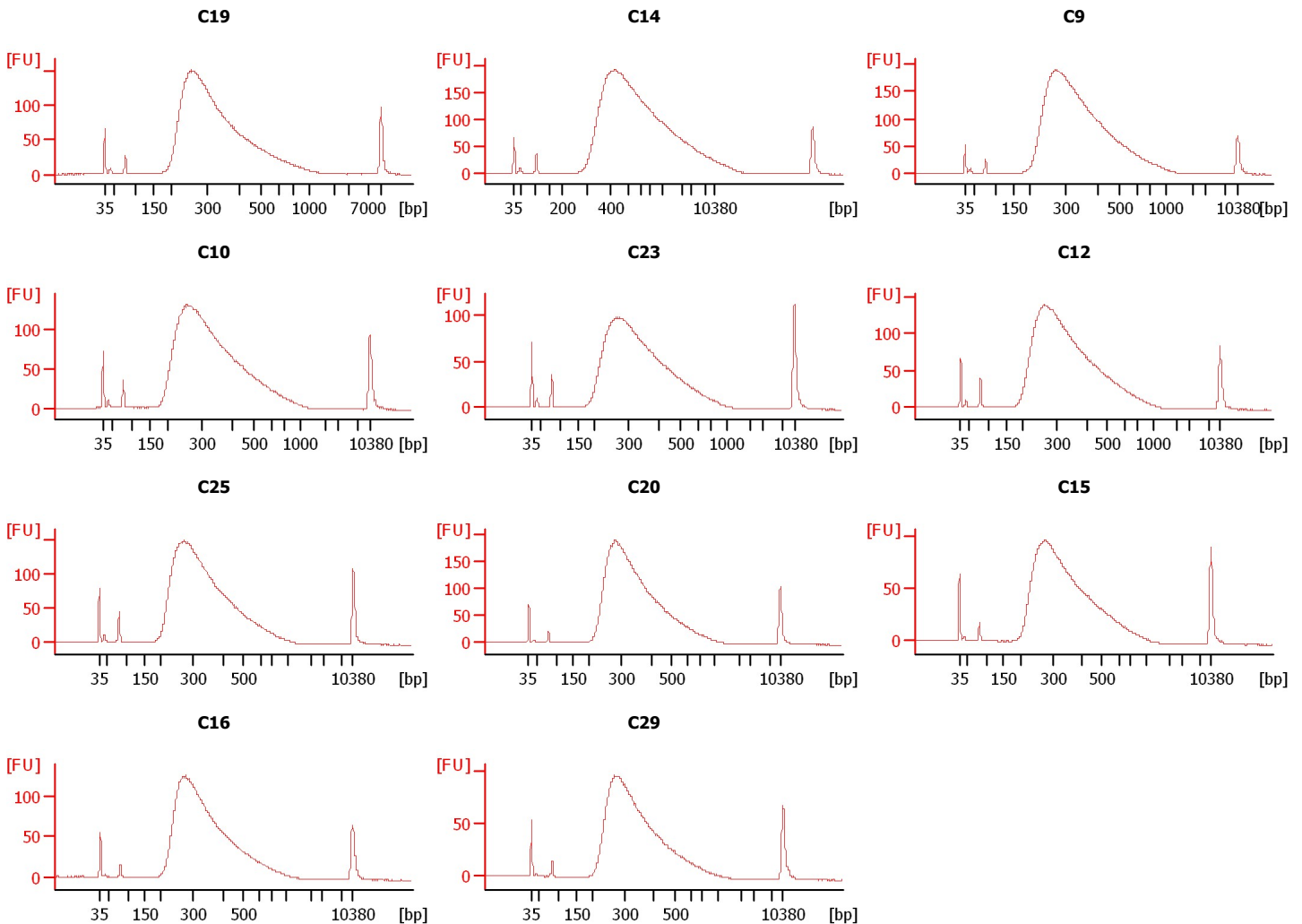
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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"/>	✓			
C20		<input type="checkbox"/>	✓			
C15		<input type="checkbox"/>	✓			
C16		<input type="checkbox"/>	✓			
C29		<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\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
Modified: 10/4/2017 4:54:22 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

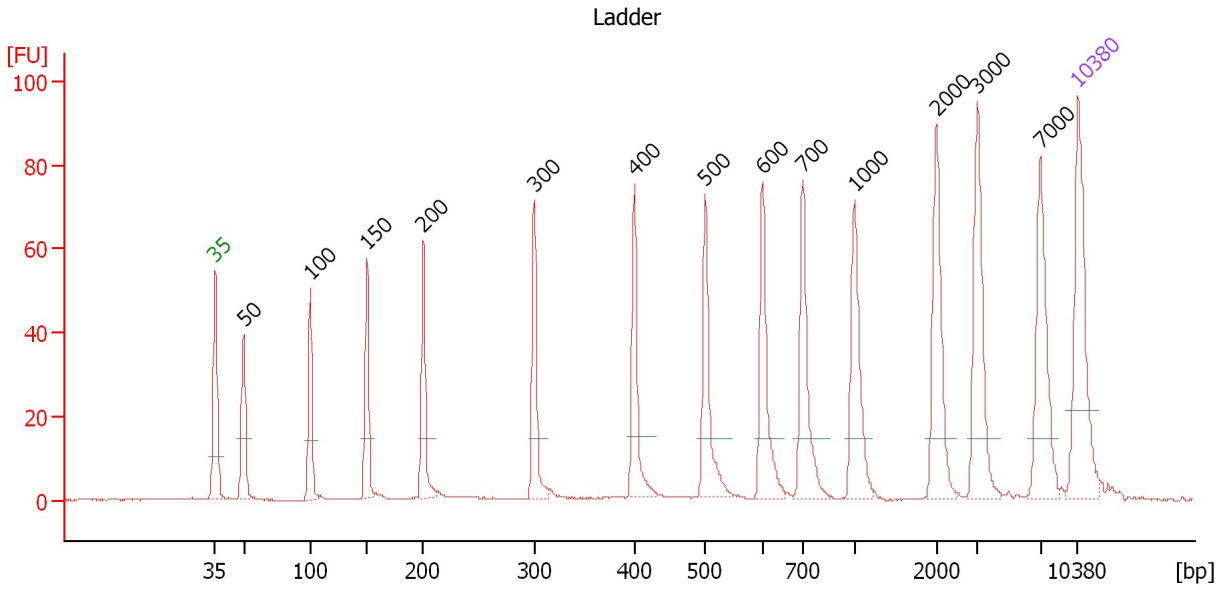
Ladder

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\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

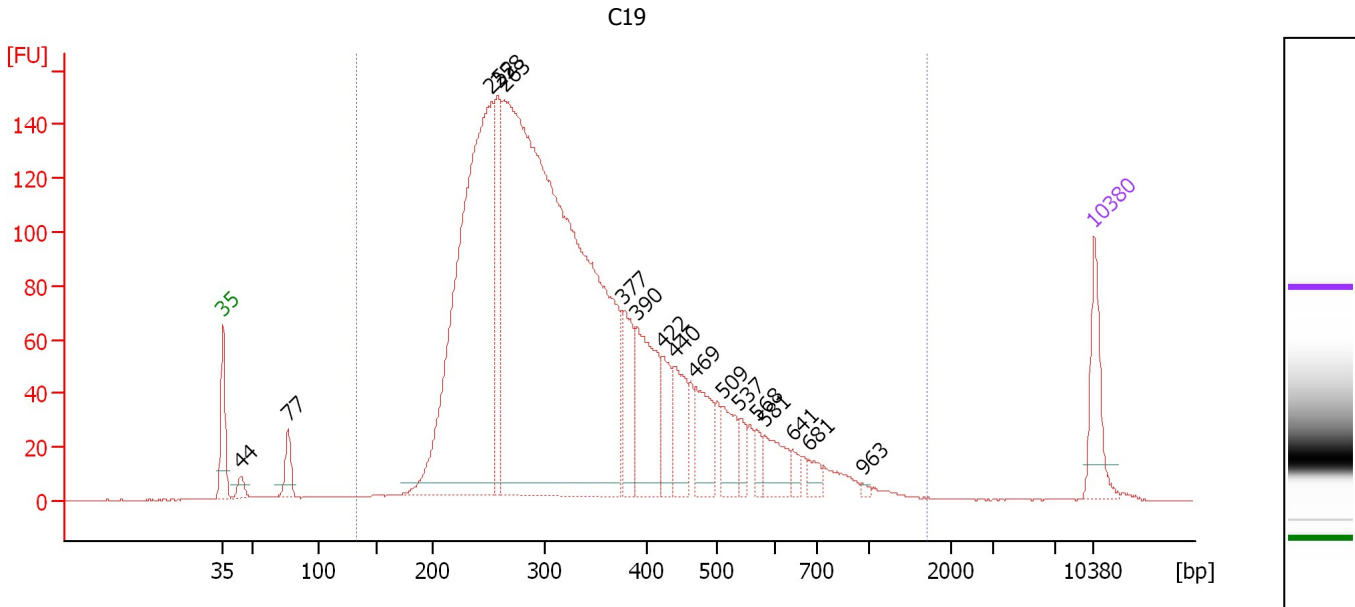
Peak table for Ladder

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	45.29
3	100	150.00	2,272.7	Ladder Peak	50.70
4	150	150.00	1,515.2	Ladder Peak	55.33
5	200	150.00	1,136.4	Ladder Peak	59.87
6	300	150.00	757.6	Ladder Peak	68.87
7	400	150.00	568.2	Ladder Peak	77.00
8	500	150.00	454.5	Ladder Peak	82.76
9	600	150.00	378.8	Ladder Peak	87.39
10	700	150.00	324.7	Ladder Peak	90.68
11	1,000	150.00	227.3	Ladder Peak	94.87
12	2,000	150.00	113.6	Ladder Peak	101.49
13	3,000	150.00	75.8	Ladder Peak	104.82
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\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : C19

Number of peaks found: 17 Corr. Area 1: 3,394.2
 Noise: 0.2

Peak table for sample 1 : 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	44	23.32	798.5		44.41
3	77	58.17	1,142.4		48.23
4	252	1,226.30	7,370.1		64.56
5	258	204.49	1,201.7		65.08
6	263	2,551.17	14,693.9		65.55
7	377	121.90	490.4		75.11
8	390	217.16	842.9		76.22
9	422	74.40	267.1		78.28
10	440	100.52	346.1		79.31
11	469	103.45	334.2		80.98
12	509	68.98	205.4		83.17
13	537	29.59	83.4		84.49
14	568	21.24	56.7		85.91
15	581	64.40	168.0		86.51
16	641	20.57	48.6		88.74
17	681	21.14	47.0		90.07
18	963	4.57	7.2		94.35
19	10,380	75.00	10.9	Upper Marker	113.00

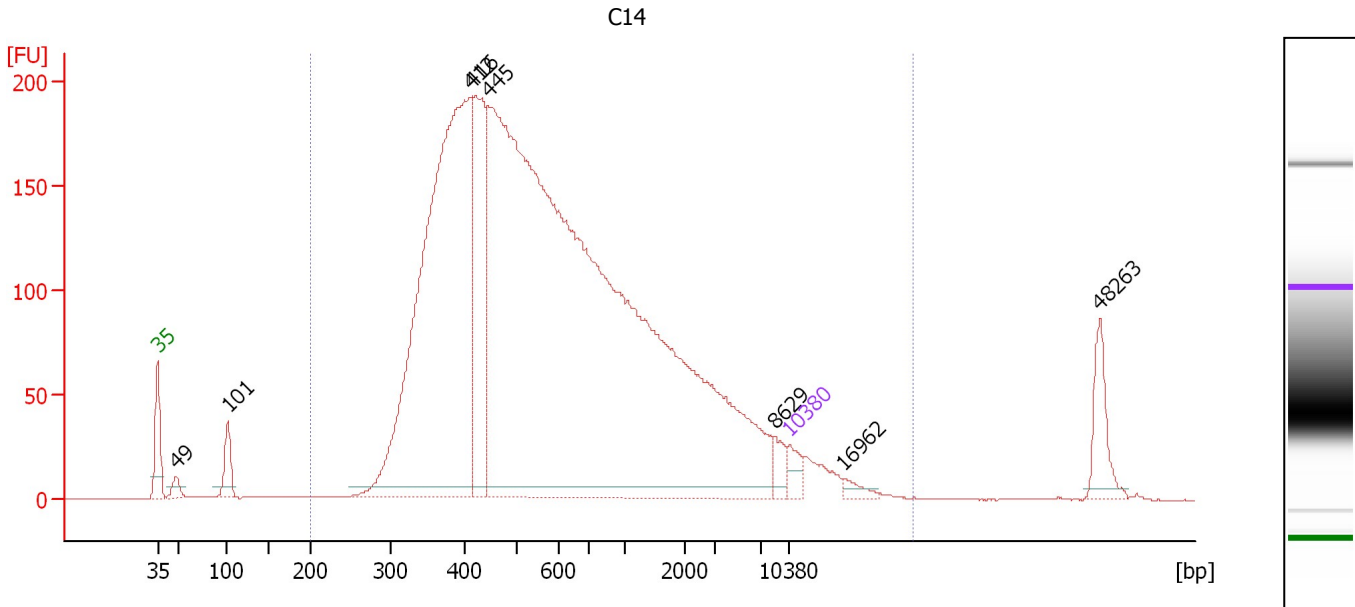
Region table for sample 1 : C19

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
132	1,715	347	3,394.2	24,873.1	4,939.07	97	40.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C14

Number of peaks found: 8 Corr. Area 1: 4,675.4
 Noise: 0.2

Peak table for sample 2 : 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	49	79.94	2,485.1		45.10
3	101	211.85	3,188.3		50.76
4	412	4,216.81	15,516.4		77.68
5	416	1,074.76	3,912.7		77.94
6	445	10,819.05	36,841.9		79.59
7	8,629	80.60	14.2		111.41
8	10,380	75.00	10.9	Upper Marker	113.00
9	16,962	0.00	0.0		118.98
10	48,263	0.00	0.0		147.43

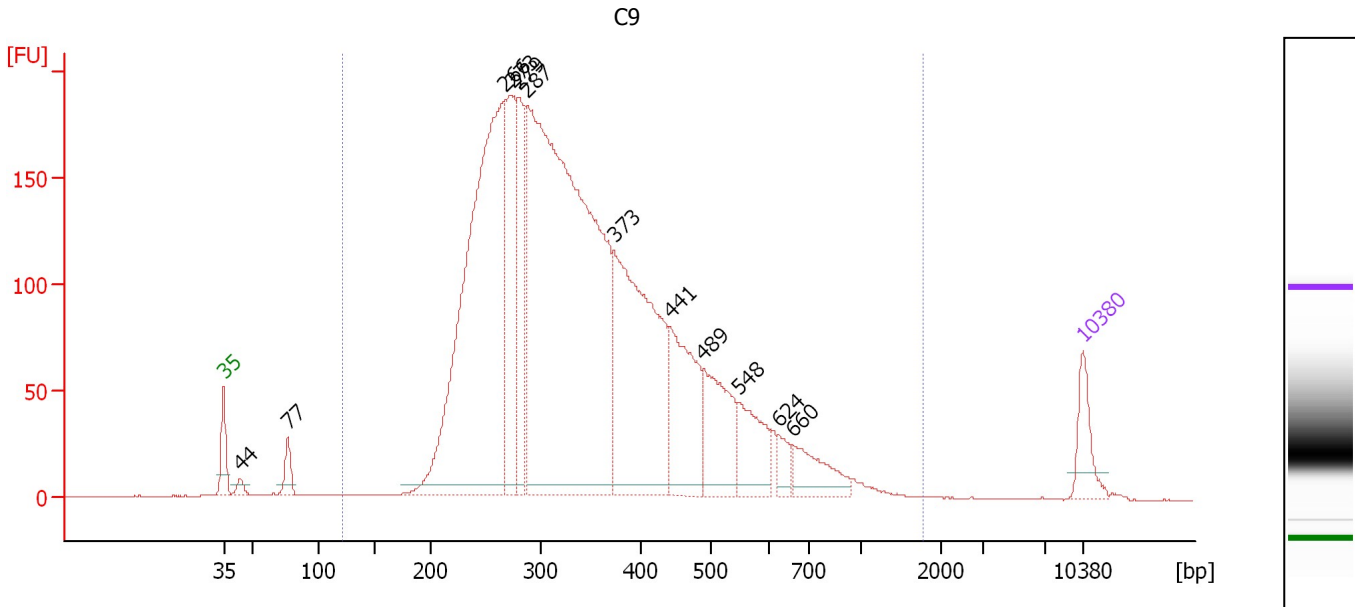
Region table for sample 2 : C14

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	25,419	1,451	4,675.4	42,818.0	14,896.90	96	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C9

Number of peaks found: 12 Corr. Area 1: 4,510.7
 Noise: 0.2

Peak table for sample 3 : 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	44	26.13	909.4		44.30
3	77	65.86	1,295.8		48.21
4	266	1,774.86	10,091.4		65.86
5	273	444.72	2,466.0		66.46
6	279	351.42	1,908.2		66.99
7	287	2,645.53	13,954.5		67.72
8	373	902.02	3,664.4		74.81
9	441	354.28	1,217.0		79.37
10	489	270.60	839.0		82.11
11	548	166.00	459.1		84.97
12	624	44.45	107.9		88.19
13	660	120.67	277.0		89.36
14	10,380	75.00	10.9	Upper Marker	113.00

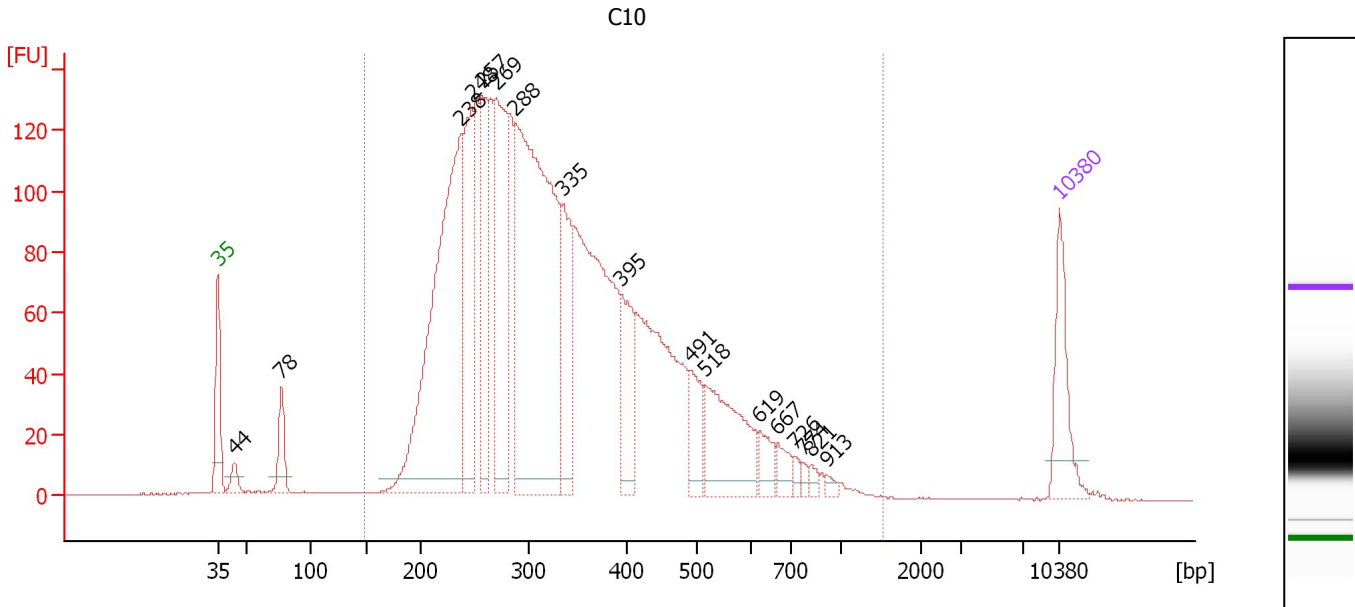
Region table for sample 3 : C9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
122	1,773	362	4,510.7	34,365.6	7,149.57	98	38.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C10

Number of peaks found: 17 Corr. Area 1: 3,343.9
 Noise: 0.2

Peak table for sample 4 : 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	44	25.09	864.0		44.38
3	78	64.98	1,268.6		48.28
4	238	697.79	4,446.3		63.27
5	248	230.16	1,408.2		64.16
6	257	189.89	1,121.6		64.96
7	269	293.32	1,650.1		66.11
8	288	791.49	4,170.2		67.75
9	335	159.32	719.9		71.75
10	395	103.71	398.0		76.58
11	491	63.33	195.3		82.26
12	518	169.16	494.8		83.59
13	619	33.10	81.0		88.03
14	667	24.72	56.2		89.58
15	726	8.37	17.5		91.04
16	774	7.71	15.1		91.71
17	821	8.63	15.9		92.37
18	913	7.54	12.5		93.66
19	10,380	75.00	10.9	Upper Marker	113.00

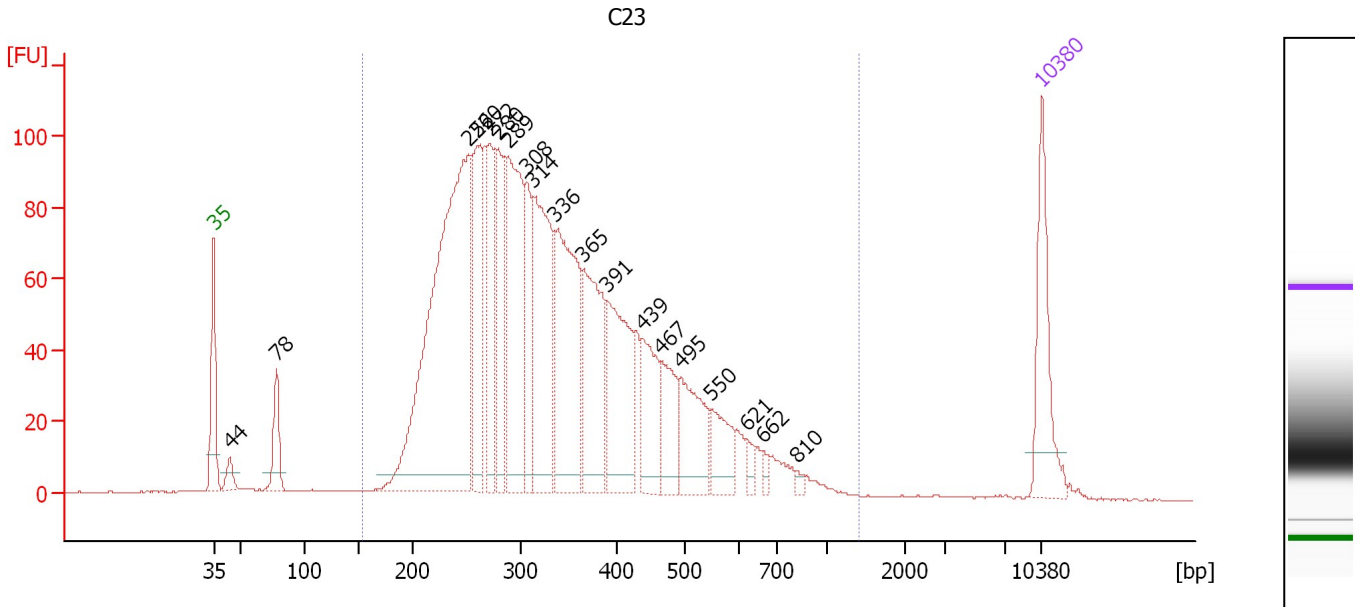
Region table for sample 4 : C10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
148	1,521	349	3,343.9	20,382.7	4,068.50	97	38.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : C23

Number of peaks found: 19 Corr. Area 1: 2,524.1
 Noise: 0.2

Peak table for sample 5 : 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	44	20.07	693.5		44.35
3	78	57.27	1,112.8		48.32
4	252	647.95	3,889.2		64.59
5	260	165.76	966.2		65.27
6	272	100.42	558.5		66.39
7	280	133.65	723.3		67.07
8	289	242.51	1,271.5		67.88
9	308	86.79	427.3		69.50
10	314	214.50	1,033.6		70.04
11	336	243.69	1,098.8		71.80
12	365	164.87	683.6		74.19
13	391	154.91	599.6		76.31
14	439	83.49	288.3		79.24
15	467	66.16	214.6		80.86
16	495	89.37	273.4		82.48
17	550	48.08	132.6		85.05
18	621	11.62	28.3		88.07
19	662	7.70	17.6		89.43
20	810	4.40	8.2		92.22
21	10,380	75.00	10.9	Upper Marker	113.00

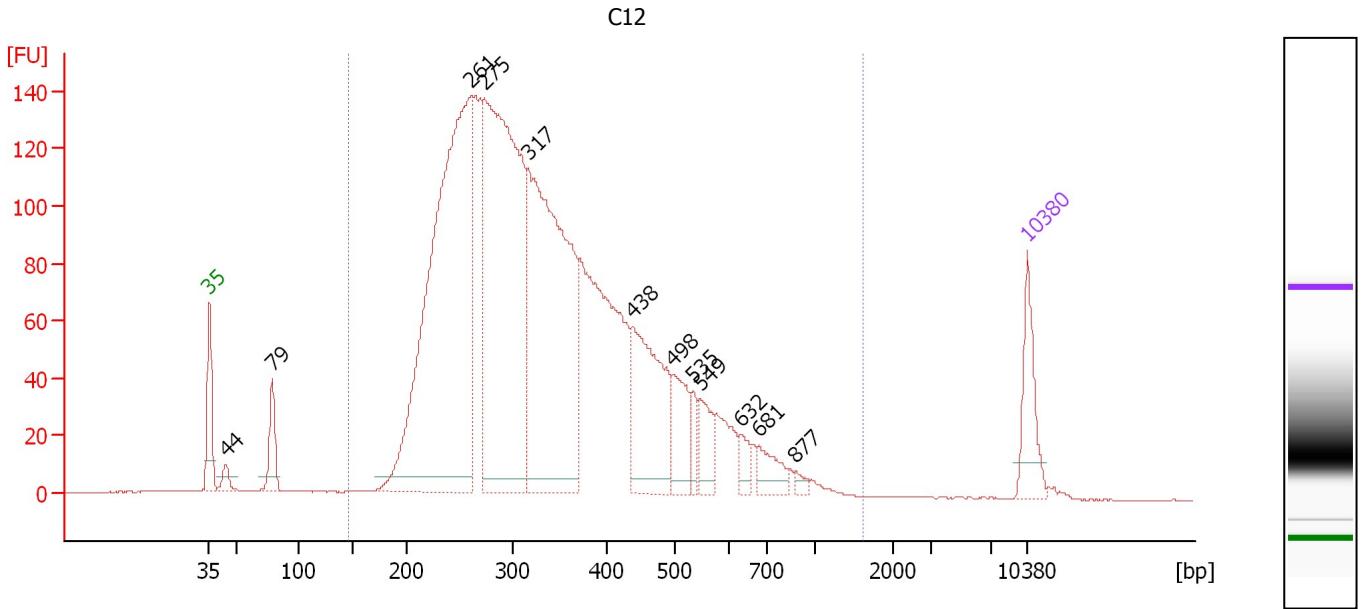
Region table for sample 5 : C23

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
152	1,408	350	2,524.1	13,615.7	2,746.74	96	36.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C12

Number of peaks found: 12 Corr. Area 1: 3,398.0
 Noise: 0.1

Peak table for sample 6 : 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	44	27.21	931.6		44.41
3	79	86.64	1,670.5		48.38
4	261	1,330.22	7,722.8		65.36
5	275	1,092.34	6,025.7		66.59
6	317	906.65	4,335.4		70.24
7	438	291.51	1,008.6		79.19
8	498	100.36	305.2		82.65
9	535	33.88	95.9		84.39
10	549	62.91	173.6		85.03
11	632	28.36	68.0		88.45
12	681	47.29	105.2		90.05
13	877	10.52	18.2		93.15
14	10,380	75.00	10.9	Upper Marker	113.00

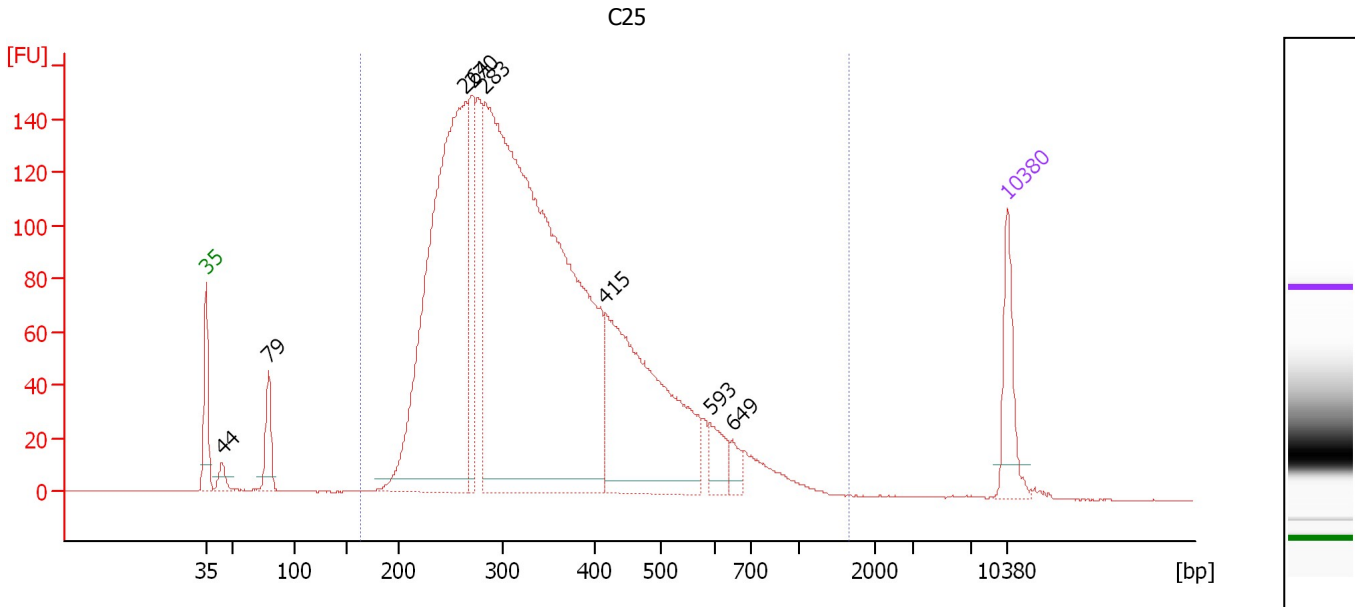
Region table for sample 6 : C12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
146	1,625	354	3,398.0	24,165.4	4,911.41	97	37.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C25

Number of peaks found: 8 Corr. Area 1: 3,470.5
 Noise: 0.2

Peak table for sample 7 : 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	44	26.83	927.2		44.35
3	79	83.15	1,590.5		48.45
4	264	1,134.07	6,503.7		65.65
5	270	189.00	1,059.0		66.21
6	283	2,112.43	11,295.3		67.37
7	415	563.56	2,058.2		77.86
8	593	49.58	126.8		87.04
9	649	22.82	53.3		89.00
10	10,380	75.00	10.9	Upper Marker	113.00

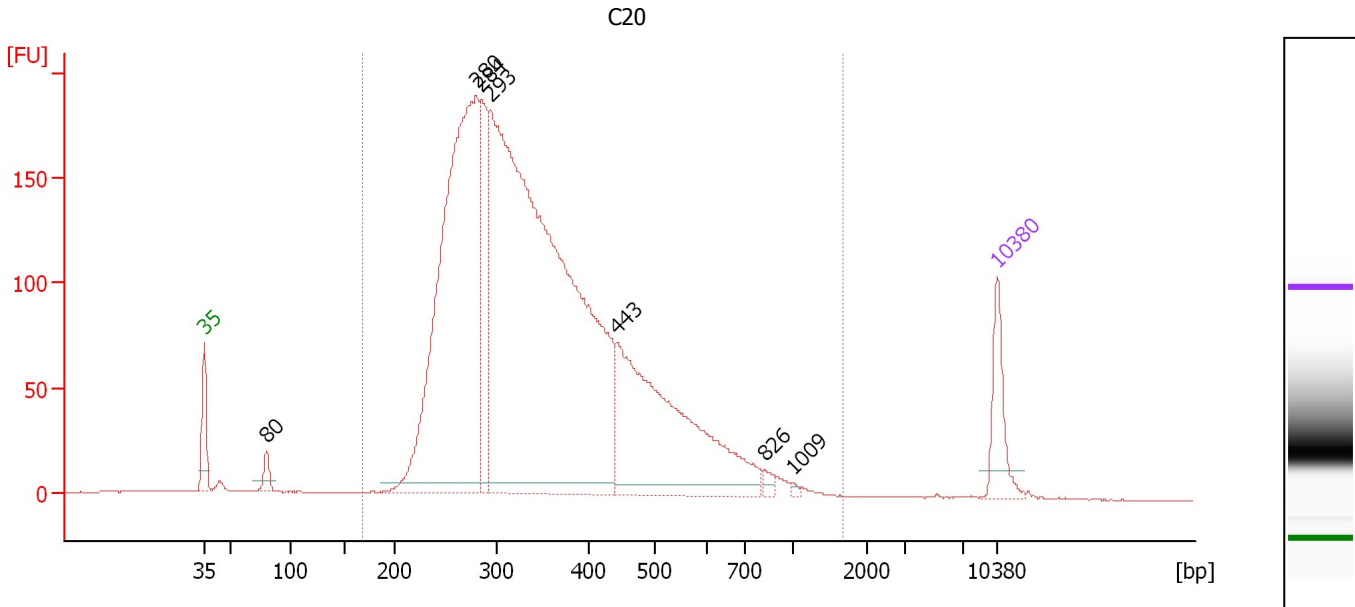
Region table for sample 7 : C25

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
162	1,652	356	3,470.5	20,344.2	4,193.90	97	37.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C20

Number of peaks found: 7 Corr. Area 1: 3,934.6
 Noise: 0.1

Peak table for sample 8 : C20

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	80	33.79	642.5		48.50
3	280	1,316.36	7,132.4		67.04
4	284	230.97	1,230.7		67.46
5	293	2,366.19	12,226.4		68.26
6	443	641.39	2,195.5		79.46
7	826	12.20	22.4		92.44
8	1,009	3.86	5.8		94.94
9	10,380	75.00	10.9	Upper Marker	113.00

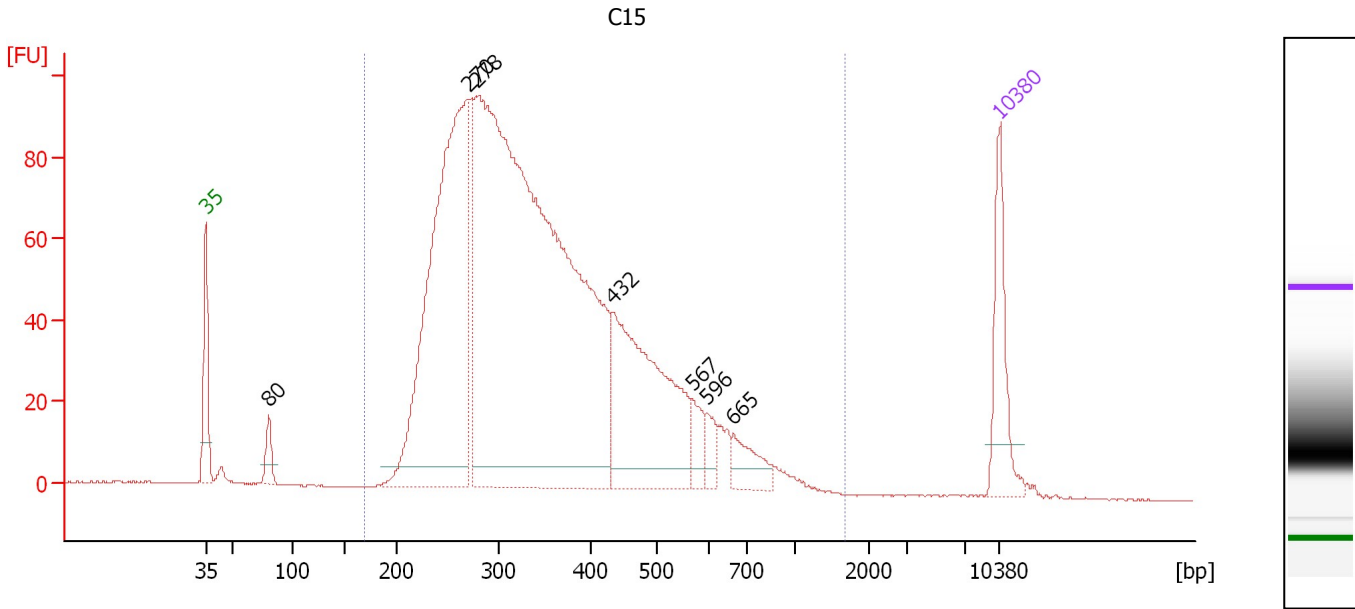
Region table for sample 8 : C20

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
168	1,675	364	3,934.6	20,607.2	4,402.19	98	35.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C15

Number of peaks found: 7 Corr. Area 1: 2,232.4
 Noise: 0.1

Peak table for sample 9 : C15

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	80	33.91	641.5		48.55
3	270	746.41	4,195.9		66.13
4	278	1,715.74	9,354.8		66.88
5	432	336.90	1,182.7		78.82
6	567	33.21	88.7		85.87
7	596	22.44	57.1		87.19
8	665	43.38	98.8		89.54
9	10,380	75.00	10.9	Upper Marker	113.00

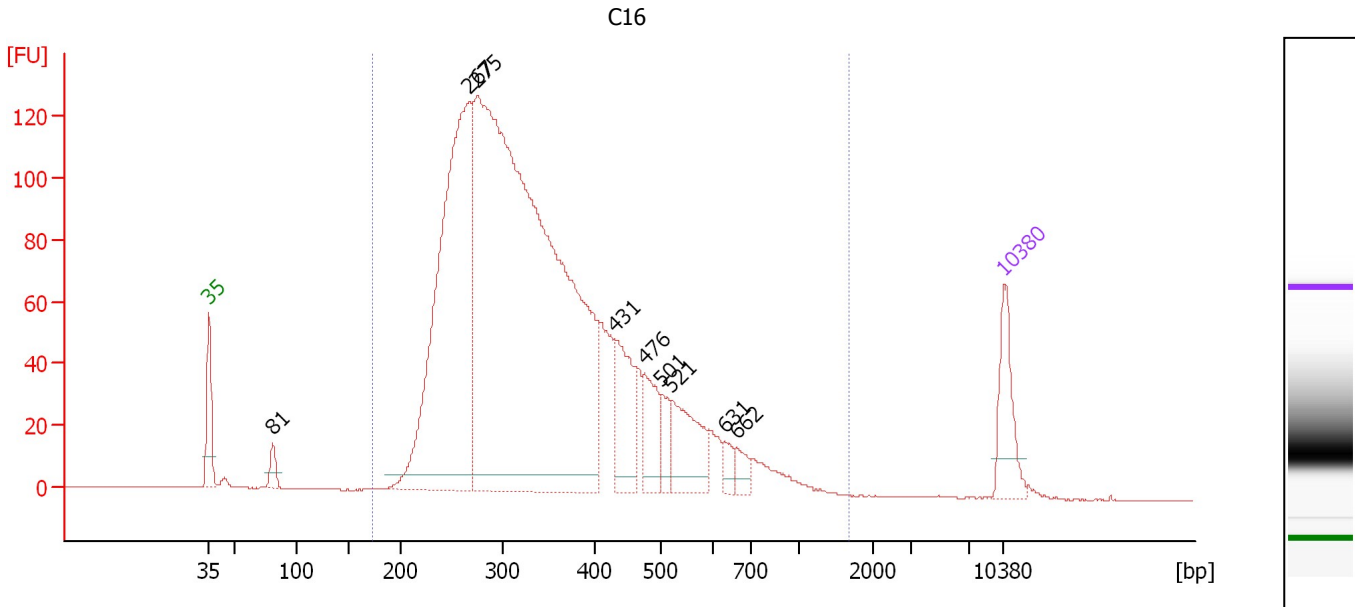
Region table for sample 9 : C15

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
168	1,676	365	2,232.4	13,645.7	2,878.61	98	37.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : C16

Number of peaks found: 9 Corr. Area 1: 2,664.6
 Noise: 0.1

Peak table for sample 10 : C16

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	33.24	622.7		48.63
3	267	984.61	5,585.3		65.91
4	275	2,385.05	13,144.3		66.62
5	431	146.39	514.9		78.77
6	476	87.29	278.1		81.36
7	501	42.12	127.4		82.81
8	521	128.38	373.0		83.75
9	631	22.03	52.9		88.40
10	662	26.15	59.8		89.43
11	10,380	75.00	10.9	Upper Marker	113.00

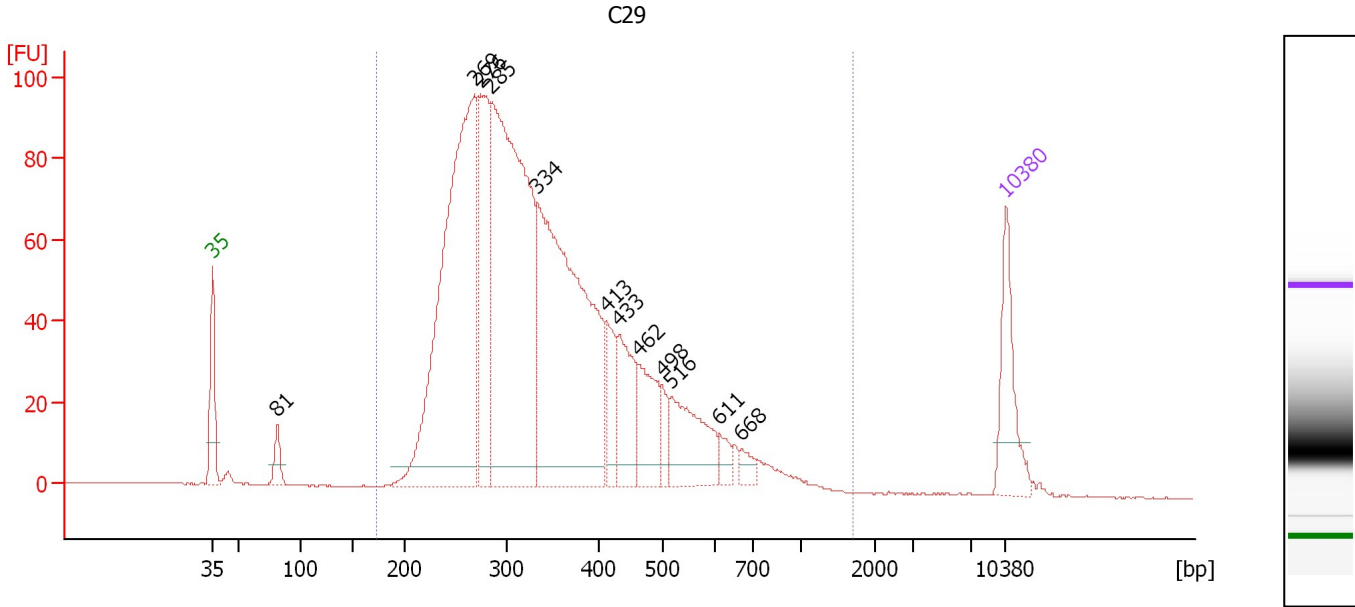
Region table for sample 10 : C16

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
173	1,679	360	2,664.6	18,491.7	3,882.83	98	36.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
 Modified: 10/4/2017 4:54:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C29

Number of peaks found: 12 Corr. Area 1: 2,005.1
 Noise: 0.1

Peak table for sample 11 : C29

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	33.74	627.8		48.69
3	269	789.76	4,445.4		66.10
4	276	242.93	1,333.7		66.71
5	285	770.96	4,093.1		67.56
6	334	659.19	2,989.0		71.65
7	413	60.05	220.2		77.76
8	433	100.28	351.1		78.89
9	462	90.44	296.4		80.59
10	498	30.21	91.9		82.66
11	516	117.81	345.9		83.50
12	611	18.76	46.6		87.74
13	668	16.57	37.6		89.62
14	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : C29

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
174	1,697	359	2,005.1	14,145.4	2,972.26	98	35.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-04\2017-10-04_002.xad

Created: 10/4/2017 4:09:31 PM
Modified: 10/4/2017 4:54:22 PM

Gel Image

