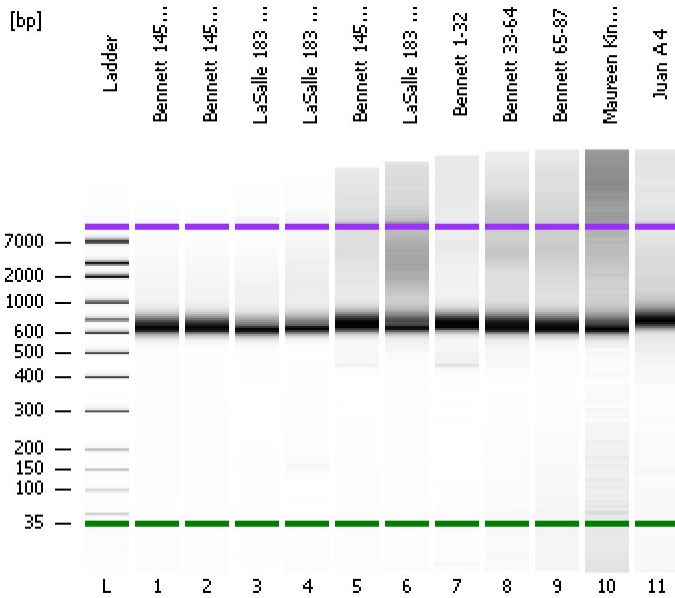


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
Modified: 12/19/2017 3:25:45 PM

Electrophoresis File Run Summary



Instrument Information:

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

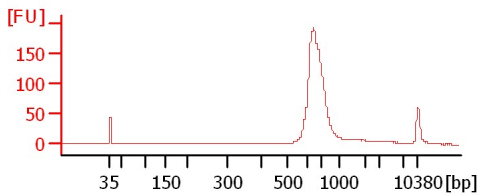
Assay Information:

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

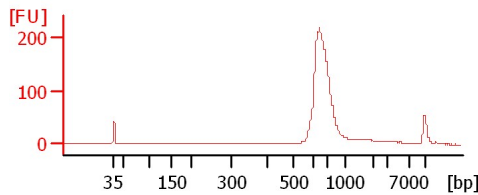
Chip Information:

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

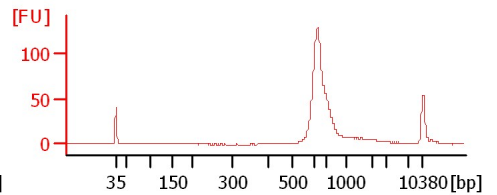
Bennett 145 Pippin 1



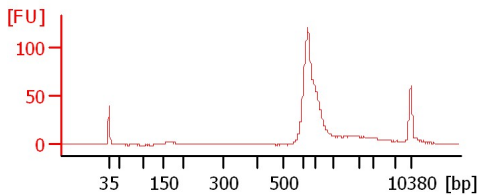
Bennett 145 Pippin 2



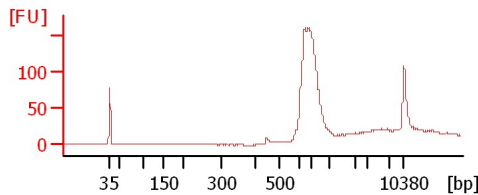
LaSalle 183 Pippin 1



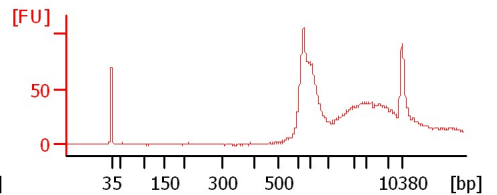
LaSalle 183 Pippin 2



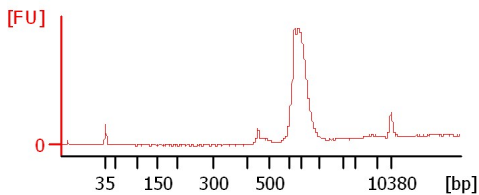
Bennett 145 bead clean



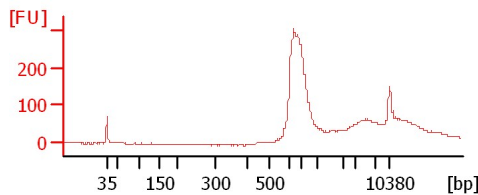
LaSalle 183 bead clean



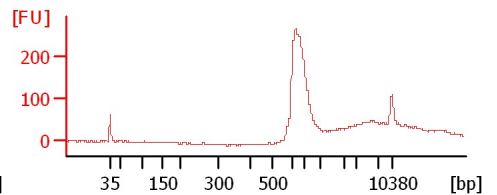
Bennett 1-32



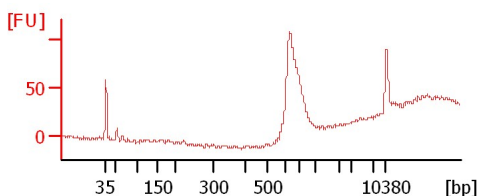
Bennett 33-64



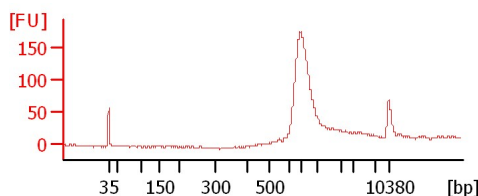
Bennett 65-87



Maureen Kinyua 4



Juan A 4



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Bennett 145 Pippin 1		<input type="checkbox"/>	✓			
Bennett 145 Pippin 2		<input type="checkbox"/>	✓			
LaSalle 183 Pippin 1		<input type="checkbox"/>	✓			
LaSalle 183 Pippin 2		<input type="checkbox"/>	✓			
Bennett 145 bead clean		<input type="checkbox"/>	✓			
LaSalle 183 bead clean		<input type="checkbox"/>	✓			
Bennett 1-32		<input type="checkbox"/>	✓			
Bennett 33-64		<input type="checkbox"/>	✓			
Bennett 65-87		<input type="checkbox"/>	✓			
Maureen Kinyua 4		<input type="checkbox"/>	✓			
Juan A 4		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

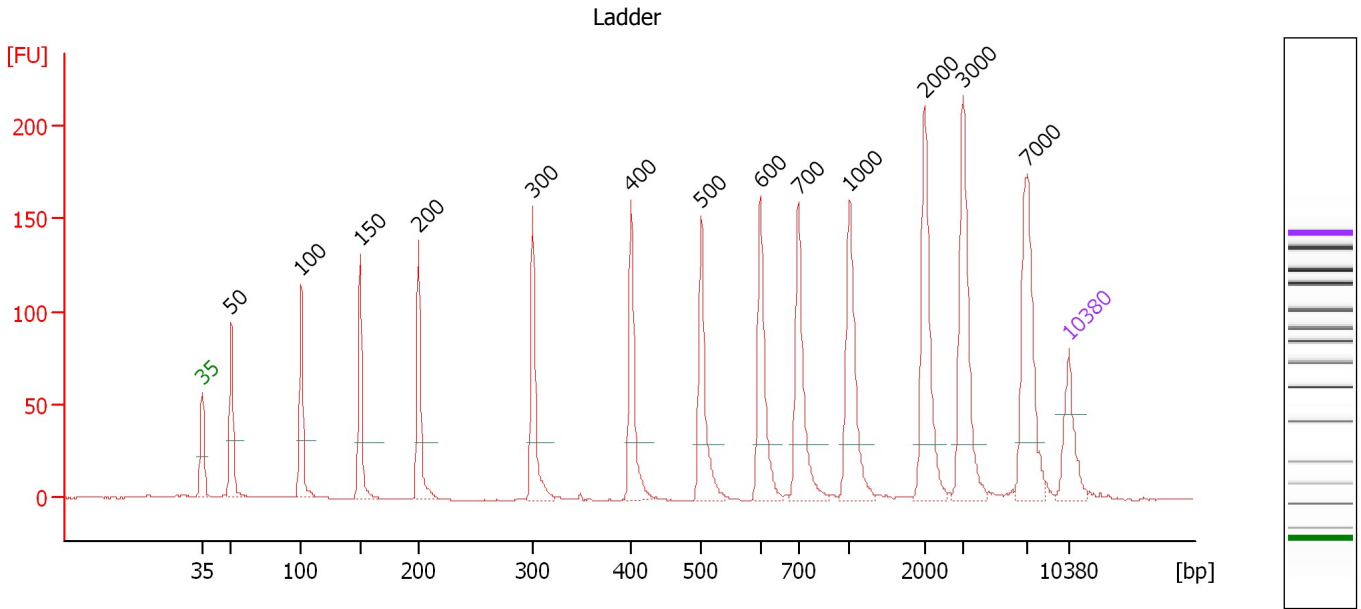
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

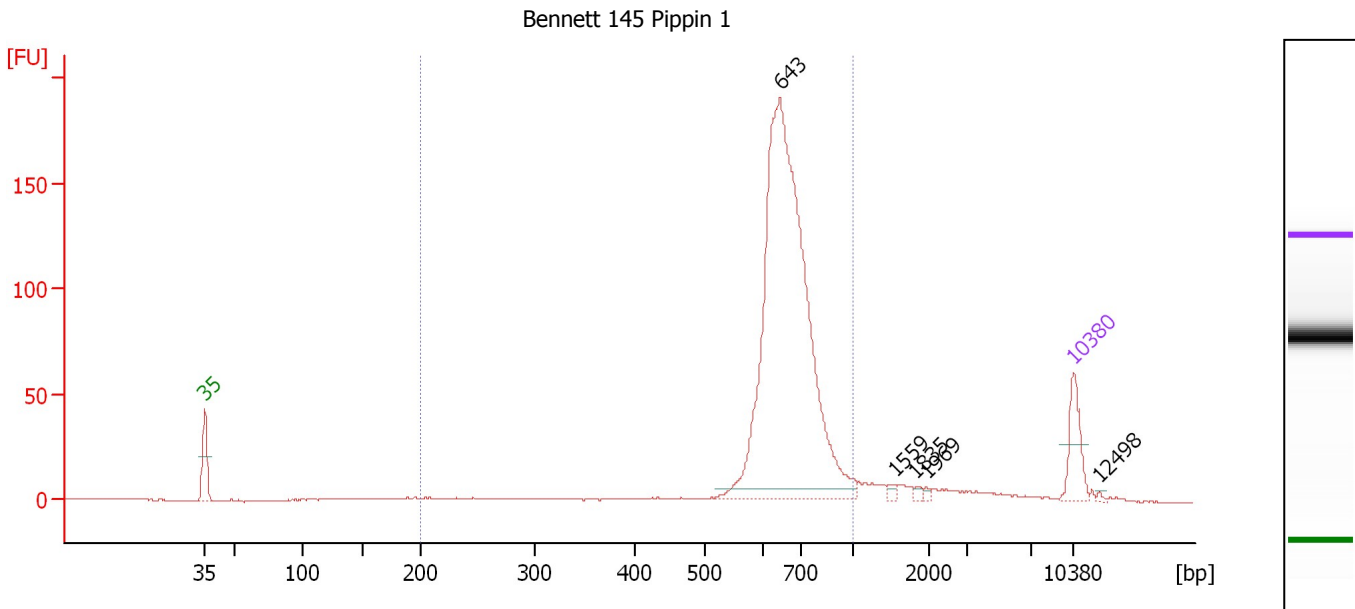
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.97
4	150	150.00	1,515.2	Ladder Peak	55.75
5	200	150.00	1,136.4	Ladder Peak	60.45
6	300	150.00	757.6	Ladder Peak	69.66
7	400	150.00	568.2	Ladder Peak	77.63
8	500	150.00	454.5	Ladder Peak	83.28
9	600	150.00	378.8	Ladder Peak	88.06
10	700	150.00	324.7	Ladder Peak	91.12
11	1,000	150.00	227.3	Ladder Peak	95.25
12	2,000	150.00	113.6	Ladder Peak	101.33
13	3,000	150.00	75.8	Ladder Peak	104.43
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Bennett 145 Pippin 1

Number of peaks found: 5 Corr. Area 1: 918.9
 Noise: 0.2

Peak table for sample 1 : Bennett 145 Pippin 1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	643	1,470.14	3,465.6		89.37
3	1,559	8.75	8.5		98.65
4	1,835	6.38	5.3		100.32
5	1,969	4.45	3.4		101.14
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,498	0.00	0.0		115.11

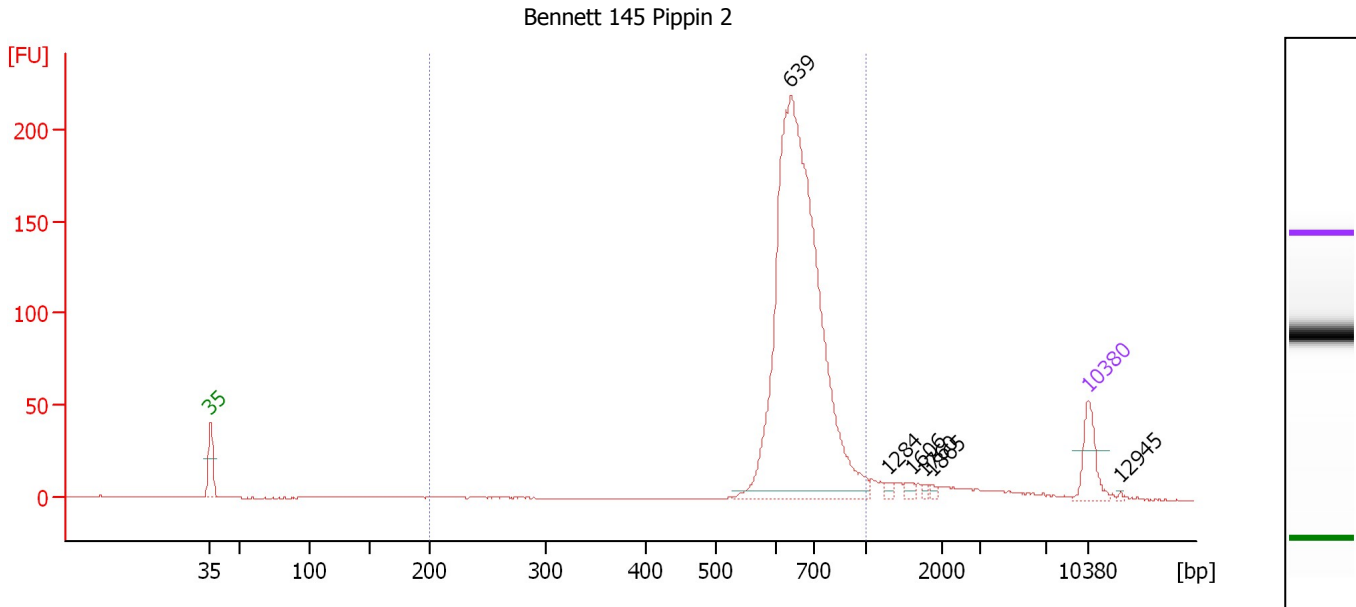
Region table for sample 1 : Bennett 145 Pippin 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ μ l]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	665	918.9	1,542.70	3,670.1	89	14.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Bennett 145 Pippin 2

Number of peaks found: 6 Corr. Area 1: 1,020.6
 Noise: 0.2

Peak table for sample 2 : Bennett 145 Pippin 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	639	1,748.97	4,149.1		89.24
3	1,284	10.54	12.4		96.98
4	1,606	12.84	12.1		98.93
5	1,760	6.67	5.7		99.87
6	1,865	6.16	5.0		100.50
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,945	0.00	0.0		115.55

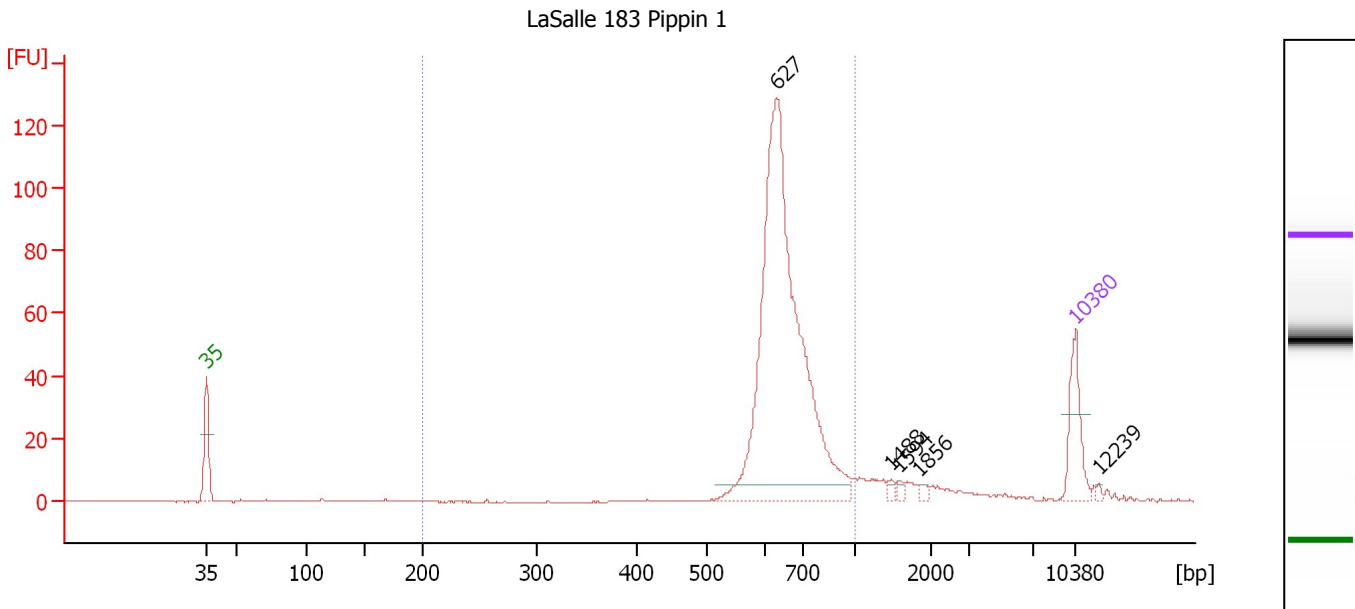
Region table for sample 2 : Bennett 145 Pippin 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	672	1,020.6	1,754.97	4,046.6	89	12.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : LaSalle 183 Pippin 1

Number of peaks found: 5 Corr. Area 1: 504.7
 Noise: 0.2

Peak table for sample 3 : LaSalle 183 Pippin 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	627	991.18	2,394.1		88.89
3	1,488	8.10	8.2		98.22
4	1,594	6.39	6.1		98.86
5	1,856	6.95	5.7		100.45
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,239	0.00	0.0		114.85

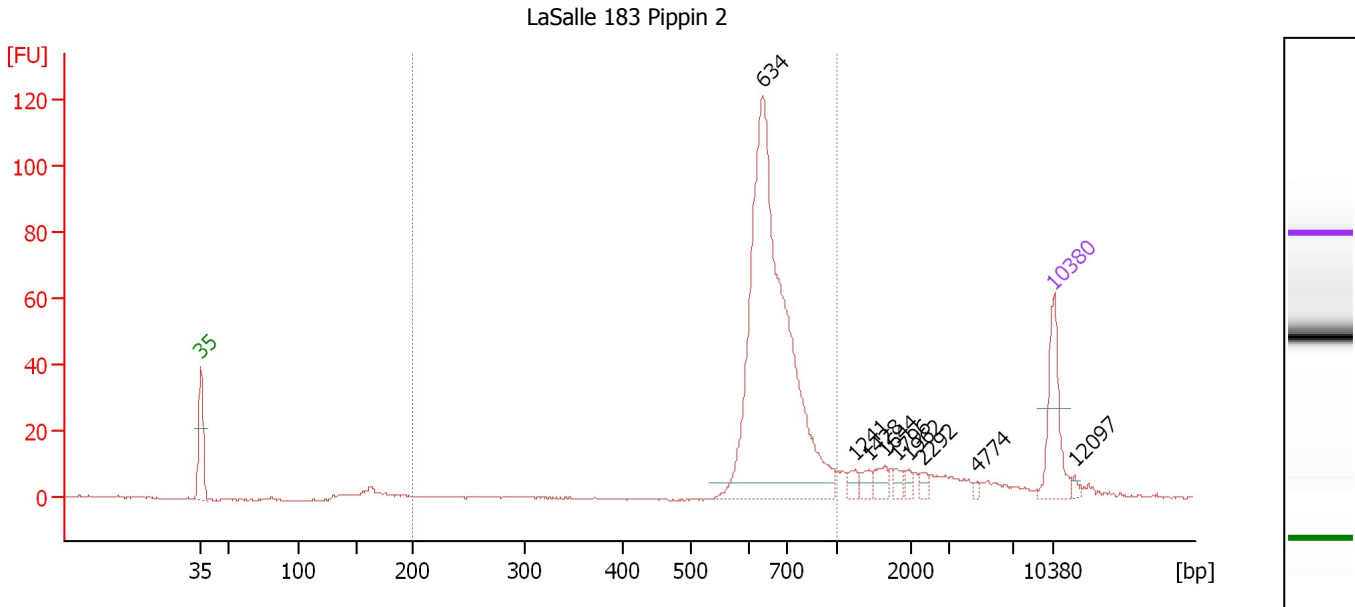
Region table for sample 3 : LaSalle 183 Pippin 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	660	504.7	995.00	2,311.5	88	12.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : LaSalle 183 Pippin 2

Number of peaks found: 9 Corr. Area 1: 458.8
 Noise: 0.2

Peak table for sample 4 : LaSalle 183 Pippin 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	634	791.44	1,891.5		89.10
3	1,241	13.47	16.4		96.71
4	1,428	13.51	14.3		97.85
5	1,644	17.58	16.2		99.17
6	1,796	9.38	7.9		100.09
7	1,962	7.68	5.9		101.09
8	2,292	8.67	5.7		102.23
9	4,774	3.75	1.2		106.74
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,097	0.00	0.0		114.71

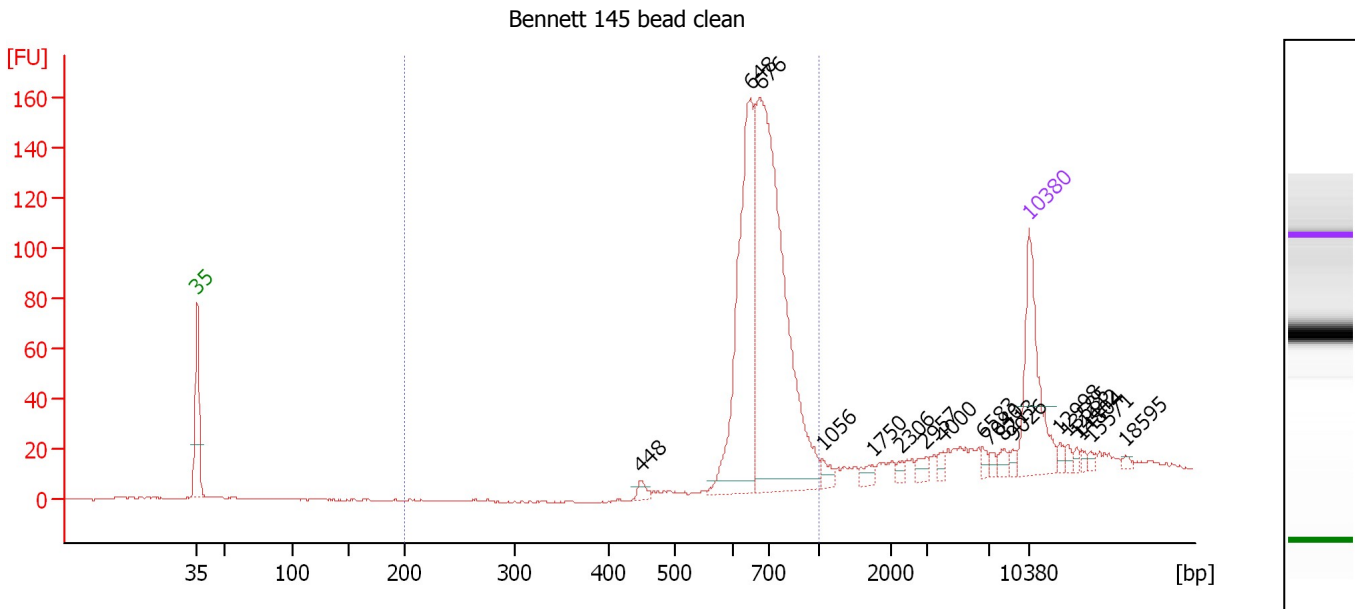
Region table for sample 4 : LaSalle 183 Pippin 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	676	458.8	773.43	1,759.6	79	12.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Bennett 145 bead clean

Number of peaks found: 18 Corr. Area 1: 745.2
 Noise: 0.2

Peak table for sample 5 : Bennett 145 bead clean

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	448	7.54	25.5		80.33
3	648	238.54	557.6		89.53
4	676	432.29	968.8		90.38
5	1,056	8.44	12.1		95.59
6	1,750	7.38	6.4		99.81
7	2,306	4.09	2.7		102.28
8	2,957	6.86	3.5		104.29
9	4,000	4.86	1.8		105.73
10	6,583	4.83	1.1		109.10
11	7,040	3.87	0.8		109.68
12	8,213	6.18	1.1		110.85
13	9,026	4.15	0.7		111.65
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,998	0.00	0.0		115.60
16	13,585	0.00	0.0		116.19
17	14,442	0.00	0.0		117.04
18	14,804	0.00	0.0		117.40
19	15,571	0.00	0.0		118.16
20	18,595	0.00	0.0		121.17

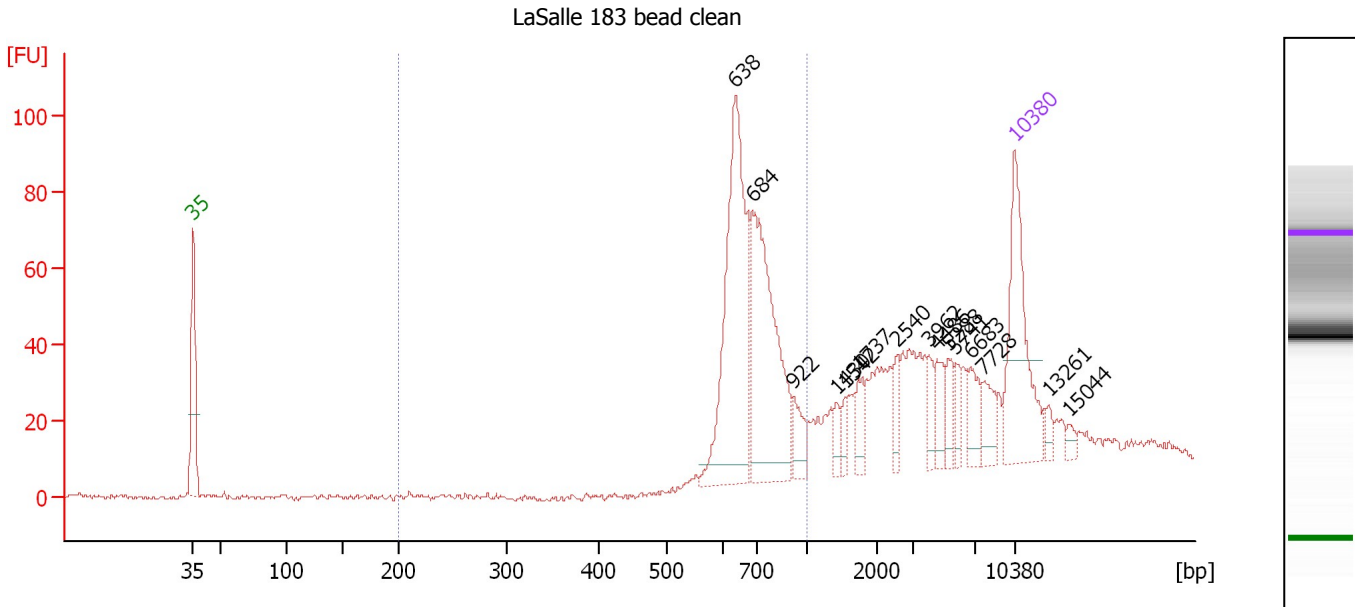
Region table for sample 5 : Bennett 145 bead clean

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	703	745.2	618.24	1,347.8	81	11.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : LaSalle 183 bead clean

Number of peaks found: 15 Corr. Area 1: 422.2
 Noise: 0.7

Peak table for sample 6 : LaSalle 183 bead clean

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	638	192.16	456.2		89.23
3	684	154.88	342.9		90.64
4	922	18.61	30.6		94.18
5	1,430	8.11	8.6		97.86
6	1,542	8.41	8.3		98.55
7	1,737	13.70	12.0		99.73
8	2,540	12.45	7.4		103.00
9	3,962	11.08	4.2		105.68
10	4,486	16.21	5.5		106.36
11	5,288	12.98	3.7		107.41
12	5,741	10.19	2.7		108.00
13	6,683	18.05	4.1		109.23
14	7,728	16.38	3.2		110.36
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,261	0.00	0.0		115.86
17	15,044	0.00	0.0		117.64

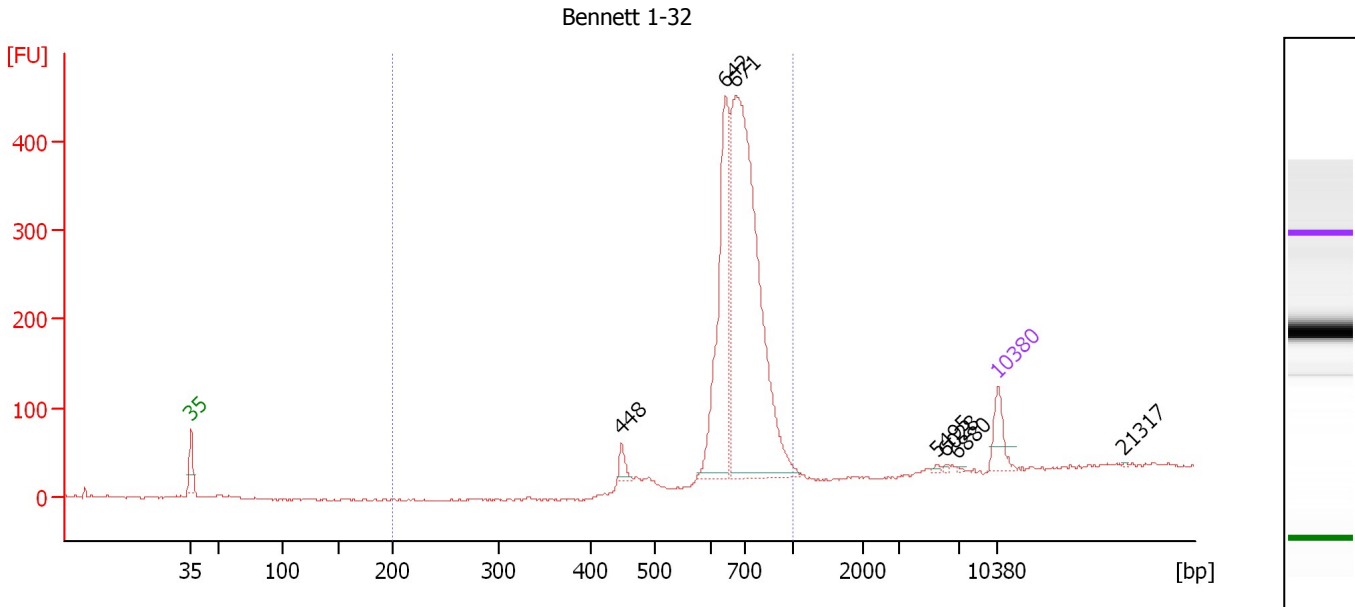
Region table for sample 6 : LaSalle 183 bead clean

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	706	422.2	345.02	752.0	50	13.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Bennett 1-32

Number of peaks found: 7 Corr. Area 1: 1,966.1
 Noise: 0.7

Peak table for sample 7 : Bennett 1-32

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	448	42.60	144.1		80.34
3	642	681.24	1,606.5		89.36
4	671	1,635.57	3,691.9		90.24
5	5,495	5.51	1.5		107.68
6	6,028	4.93	1.2		108.37
7	6,880	2.87	0.6		109.48
8	10,380	75.00	10.9	Upper Marker	113.00
9	21,317	0.00	0.0		123.87

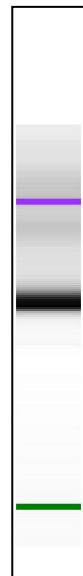
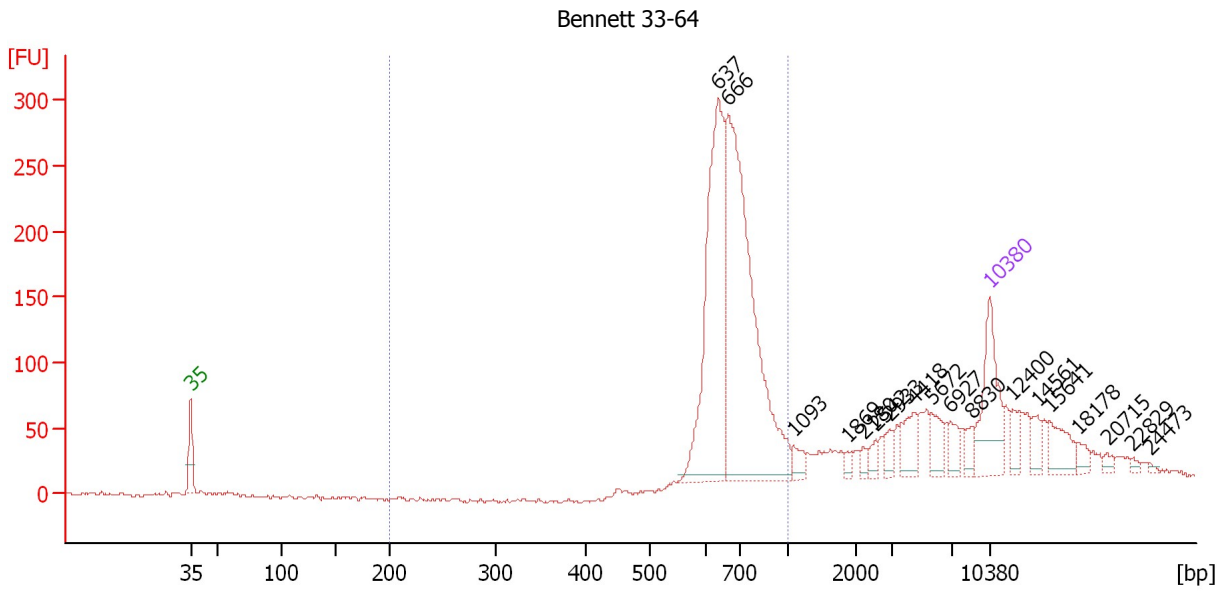
Region table for sample 7 : Bennett 1-32

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	697	1,966.1	2,367.11	5,218.5	96	11.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Bennett 33-64

Number of peaks found: 18 Corr. Area 1: 1,481.6
 Noise: 1.4

Peak table for sample 8 : Bennett 33-64

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	637	338.92	806.4		89.18
3	666	481.32	1,095.3		90.07
4	1,093	15.64	21.7		95.82
5	1,869	5.55	4.5		100.53
6	2,180	7.34	5.1		101.89
7	2,542	10.05	6.0		103.01
8	2,933	13.38	6.9		104.22
9	4,418	30.75	10.5		106.28
10	5,672	24.28	6.5		107.91
11	6,927	16.41	3.6		109.54
12	8,830	12.34	2.1		111.46
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,400	0.00	0.0		115.01
15	14,561	0.00	0.0		117.16
16	15,641	0.00	0.0		118.23
17	18,178	0.00	0.0		120.75
18	20,715	0.00	0.0		123.27
19	22,829	0.00	0.0		125.37
20	24,473	0.00	0.0		127.01

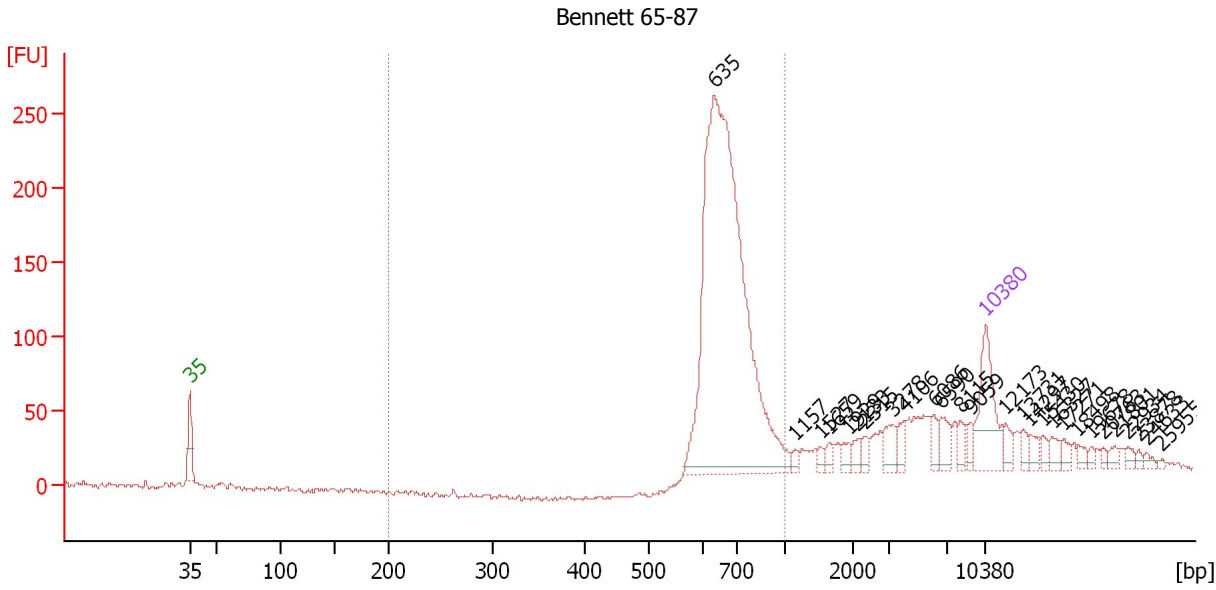
Region table for sample 8 : Bennett 33-64

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	694	1,481.6	811.79	1,795.3	62	12.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Bennett 65-87

Number of peaks found: 27 Corr. Area 1: 1,182.6
 Noise: 1.0

Peak table for sample 9 : Bennett 65-87

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	635	897.08	2,141.5		89.12
3	1,157	7.87	10.3		96.20
4	1,527	6.74	6.7		98.46
5	1,659	8.89	8.1		99.25
6	1,929	10.10	7.9		100.90
7	2,133	10.25	7.3		101.74
8	2,315	10.51	6.9		102.30
9	3,278	20.95	9.7		104.79
10	4,106	16.16	6.0		105.87
11	6,086	12.81	3.2		108.45
12	6,590	23.06	5.3		109.11
13	8,115	12.71	2.4		110.75
14	9,059	10.47	1.8		111.69
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,173	0.00	0.0		114.78
17	13,731	0.00	0.0		116.33
18	14,297	0.00	0.0		116.89
19	15,430	0.00	0.0		118.02
20	16,327	0.00	0.0		118.91
21	17,271	0.00	0.0		119.85
22	18,498	0.00	0.0		121.07
23	19,678	0.00	0.0		122.24
24	20,763	0.00	0.0		123.32
25	21,801	0.00	0.0		124.35


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...**... Peak table for sample 9 : Bennett 65-87**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	22,934	0.00	0.0		125.48
27	23,878	0.00	0.0		126.42
28	24,633	0.00	0.0		127.17
29	25,955	0.00	0.0		128.48

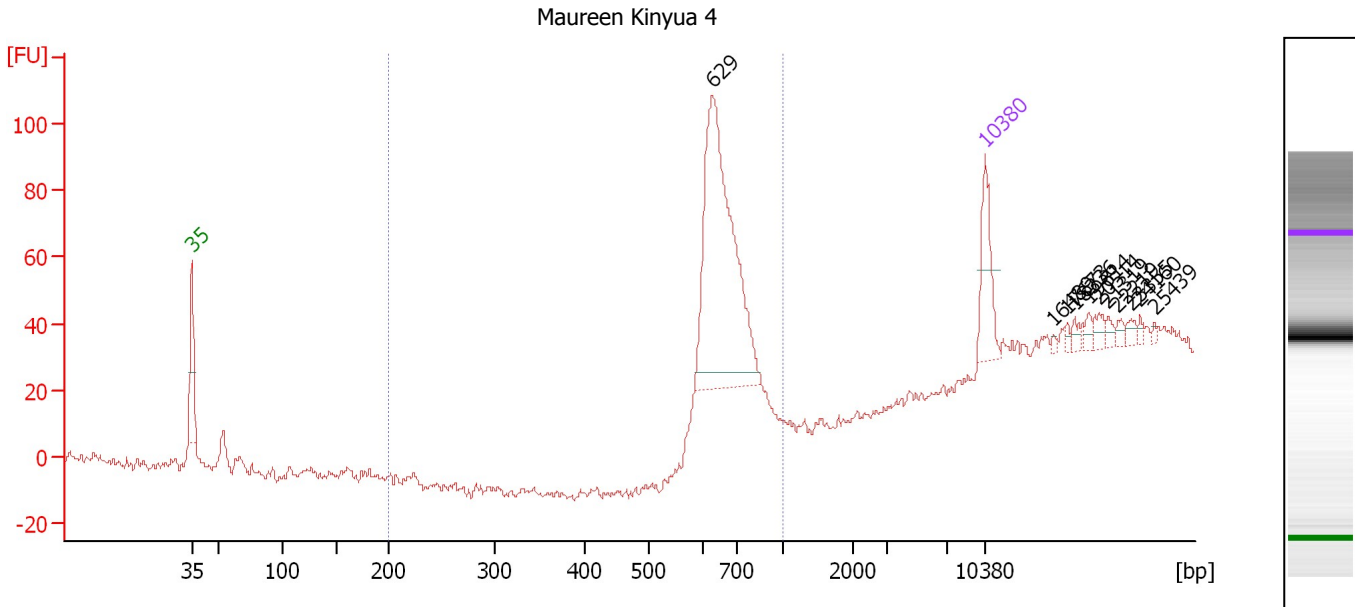
Region table for sample 9 : Bennett 65-87

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ μ l]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	686	1,182.6	884.72	1,978.2	 65	12.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Maureen Kinyua 4

Number of peaks found: 11 Corr. Area 1: 288.9
 Noise: 1.7

Peak table for sample 10 : Maureen Kinyua 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	629	539.10	1,298.6		88.94
3	10,380	75.00	10.9	Upper Marker	113.00
4	16,489	0.00	0.0		119.07
5	17,673	0.00	0.0		120.25
6	18,336	0.00	0.0		120.91
7	19,614	0.00	0.0		122.18
8	20,514	0.00	0.0		123.07
9	21,319	0.00	0.0		123.87
10	22,219	0.00	0.0		124.77
11	23,355	0.00	0.0		125.90
12	24,160	0.00	0.0		126.70
13	25,439	0.00	0.0		127.97

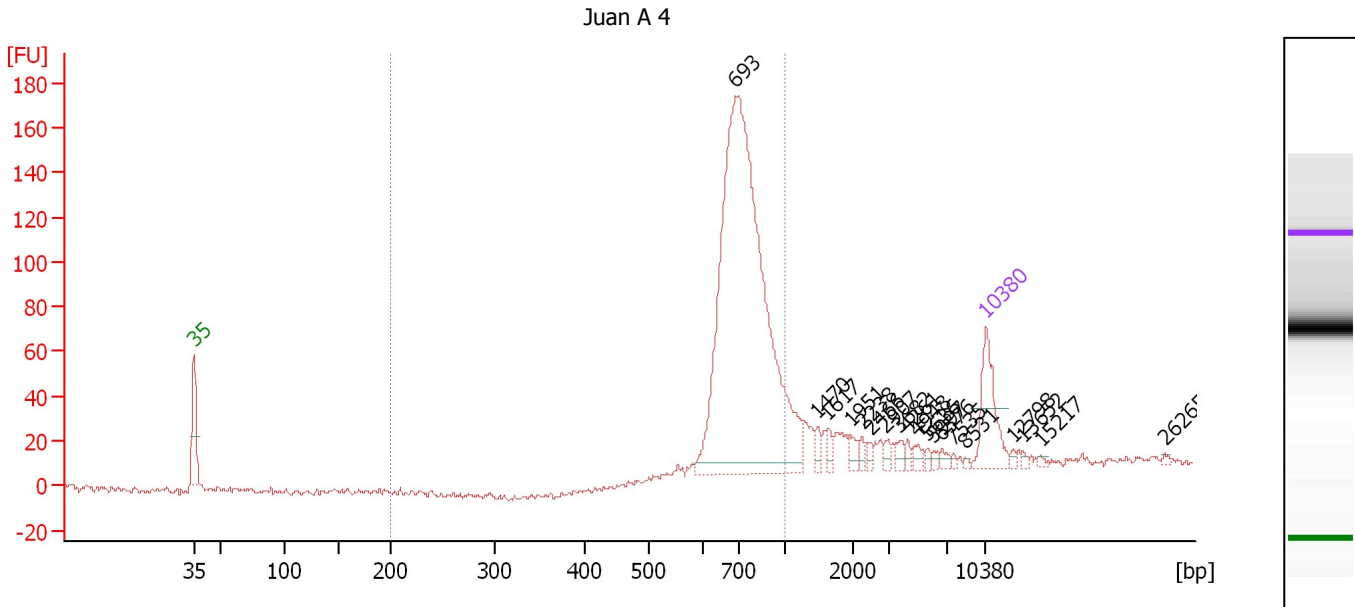
Region table for sample 10 : Maureen Kinyua 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	661	288.9	540.37	1,243.6	80	7.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
 Modified: 12/19/2017 3:25:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Juan A 4

Number of peaks found: 19 Corr. Area 1: 785.0
 Noise: 1.2

Peak table for sample 11 : Juan A 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	693	1,085.10	2,373.6		90.89
3	1,470	12.79	13.2		98.10
4	1,617	11.86	11.1		99.00
5	1,951	11.96	9.3		101.03
6	2,238	8.47	5.7		102.06
7	2,466	7.53	4.6		102.77
8	2,907	8.92	4.7		104.14
9	3,682	9.81	4.0		105.32
10	4,261	6.99	2.5		106.07
11	4,948	9.26	2.8		106.97
12	5,636	5.26	1.4		107.86
13	5,997	5.08	1.3		108.33
14	6,576	7.04	1.6		109.09
15	7,535	3.48	0.7		110.17
16	8,531	2.69	0.5		111.16
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,798	0.00	0.0		115.40
19	13,652	0.00	0.0		116.25
20	15,217	0.00	0.0		117.81
21	26,265	0.00	0.0		128.79

Region table for sample 11 : Juan A 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	746	785.0	983.27	2,025.7	75	12.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-19\2017-12-19_003.xad

Created: 12/19/2017 2:44:26 PM
Modified: 12/19/2017 3:25:45 PM

Gel Image

