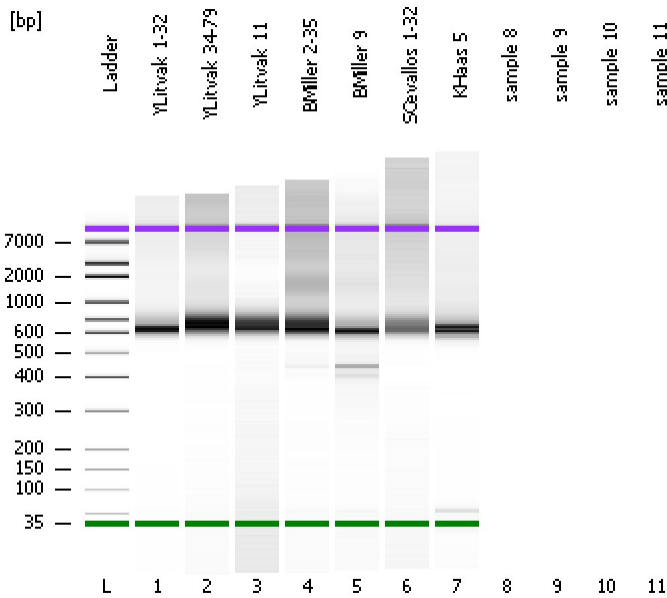


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
Modified: 10/25/2018 11:29:53 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

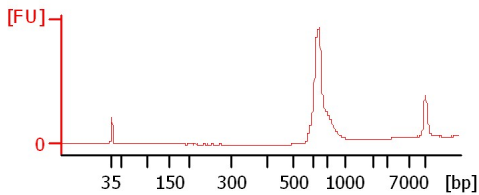
Assay Information:

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

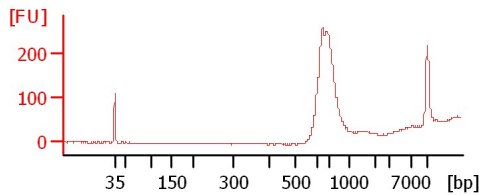
Chip Information:

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

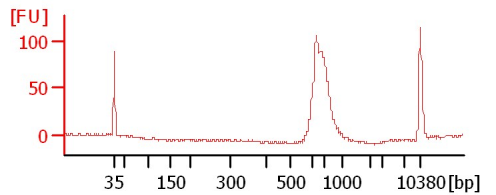
YLitvak 1-32



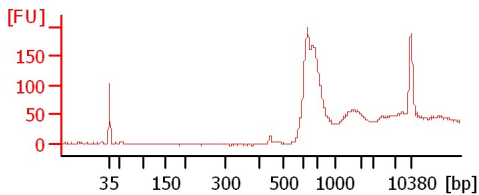
YLitvak 34-79



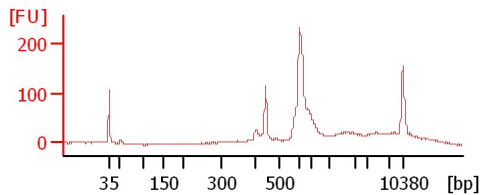
YLitvak 11



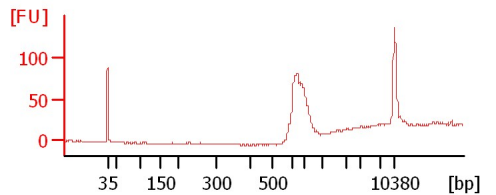
BMiller 2-35



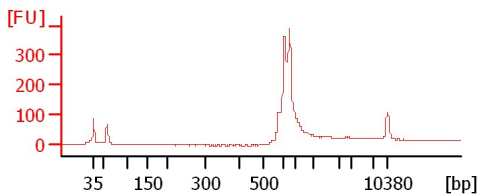
BMiller 9



SCevallos 1-32



KHaas 5



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
 Modified: 10/25/2018 11:29:53 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
YLitvak 1-32		<input type="checkbox"/>	✓			
YLitvak 34-79		<input type="checkbox"/>	✓			
YLitvak 11		<input type="checkbox"/>	✓			
BMiller 2-35		<input type="checkbox"/>	✓			
BMiller 9		<input type="checkbox"/>	✓			
SCevallos 1-32		<input type="checkbox"/>	✓			
KHaas 5		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
Modified: 10/25/2018 11:29:53 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

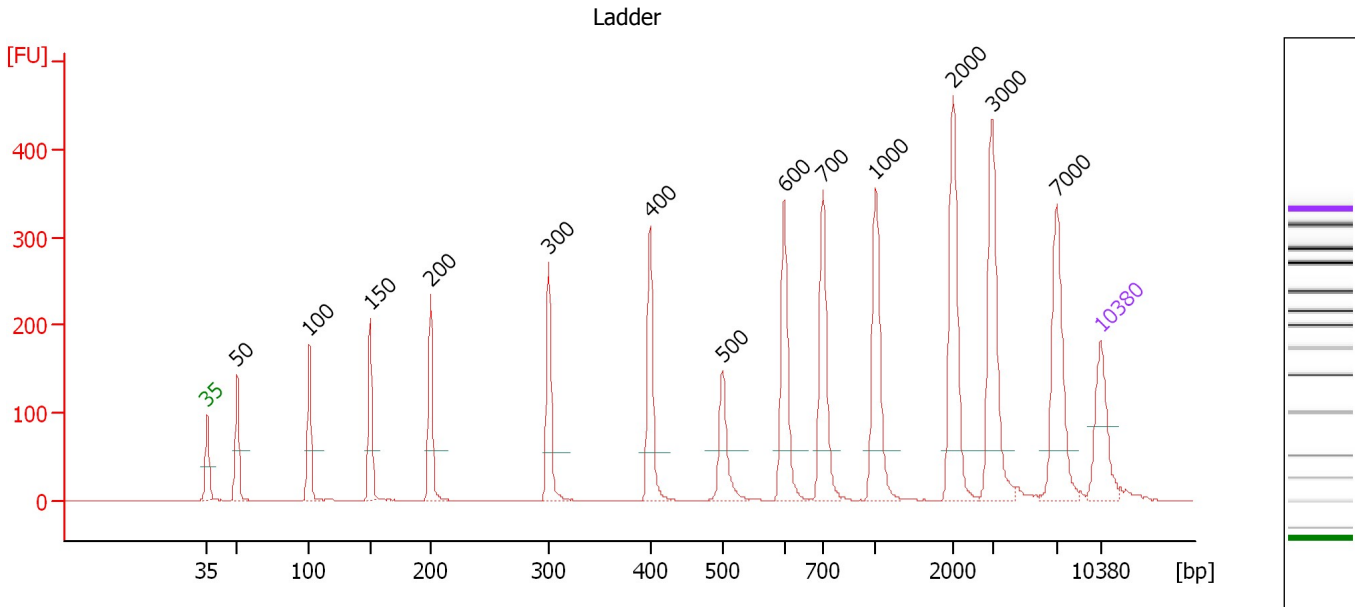
Ladder

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:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

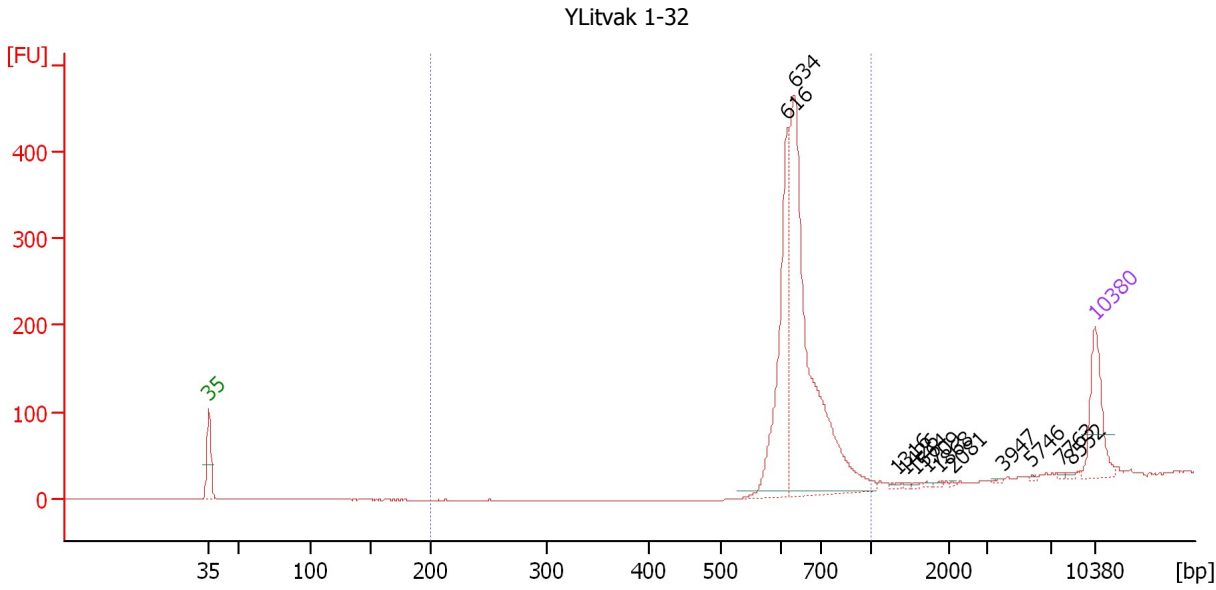
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.98
4	150	150.00	1,515.2	Ladder Peak	55.79
5	200	150.00	1,136.4	Ladder Peak	60.51
6	300	150.00	757.6	Ladder Peak	69.75
7	400	150.00	568.2	Ladder Peak	77.69
8	500	150.00	454.5	Ladder Peak	83.37
9	600	150.00	378.8	Ladder Peak	88.22
10	700	150.00	324.7	Ladder Peak	91.27
11	1,000	150.00	227.3	Ladder Peak	95.36
12	2,000	150.00	113.6	Ladder Peak	101.47
13	3,000	150.00	75.8	Ladder Peak	104.52
14	7,000	150.00	32.5	Ladder Peak	109.57
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
 Modified: 10/25/2018 11:29:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : YLitvak 1-32

Number of peaks found: 12 Corr. Area 1: 1,241.6
 Noise: 0.3

Peak table for sample 1 : YLitvak 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	616	260.85	641.9		88.70
3	634	557.42	1,332.8		89.25
4	1,316	3.37	3.9		97.29
5	1,426	2.39	2.5		97.96
6	1,564	1.82	1.8		98.81
7	1,709	2.19	1.9		99.69
8	1,868	1.81	1.5		100.66
9	2,081	1.16	0.8		101.71
10	3,947	1.94	0.7		105.71
11	5,746	1.71	0.5		107.99
12	7,763	2.09	0.4		110.35
13	8,552	1.97	0.3		111.15
14	10,380	75.00	10.9	Upper Marker	113.00

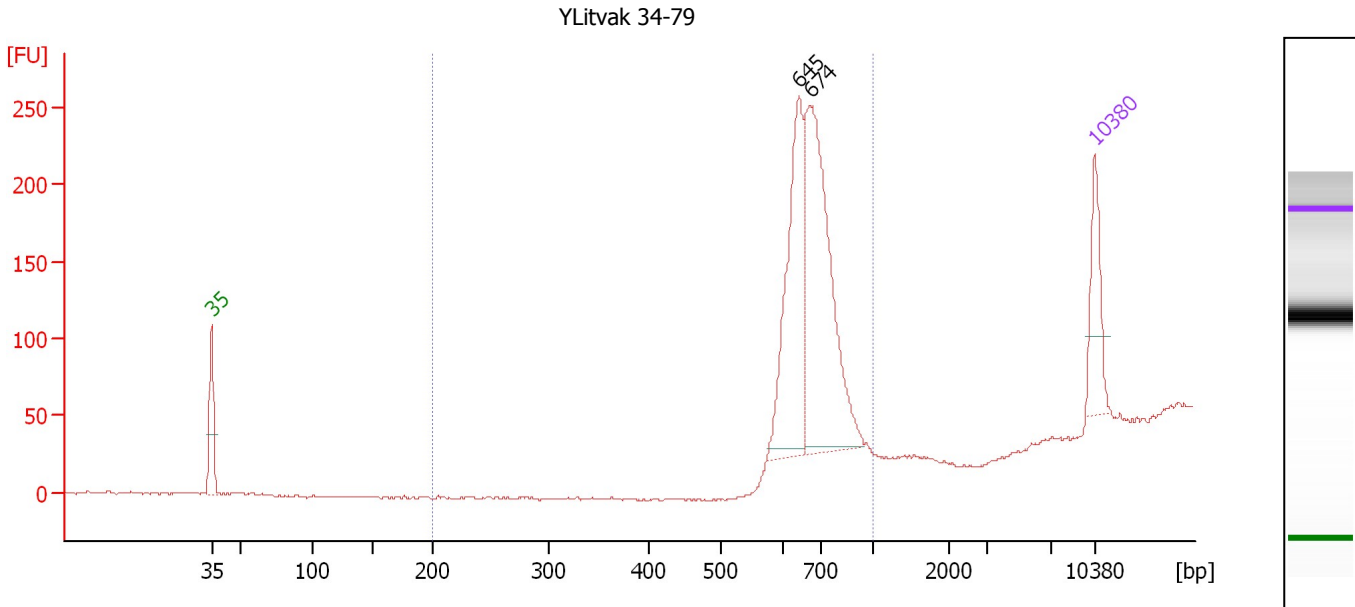
Region table for sample 1 : YLitvak 1-32

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	649	713.29	1,241.6	1,674.3	99	8.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
 Modified: 10/25/2018 11:29:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : YLitvak 34-79

Number of peaks found: 2 Corr. Area 1: 924.2
 Noise: 0.6

Peak table for sample 2 : YLitvak 34-79

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	645	302.01	709.7		89.58
3	674	456.85	1,027.3		90.47
4	10,380	75.00	10.9	Upper Marker	113.00

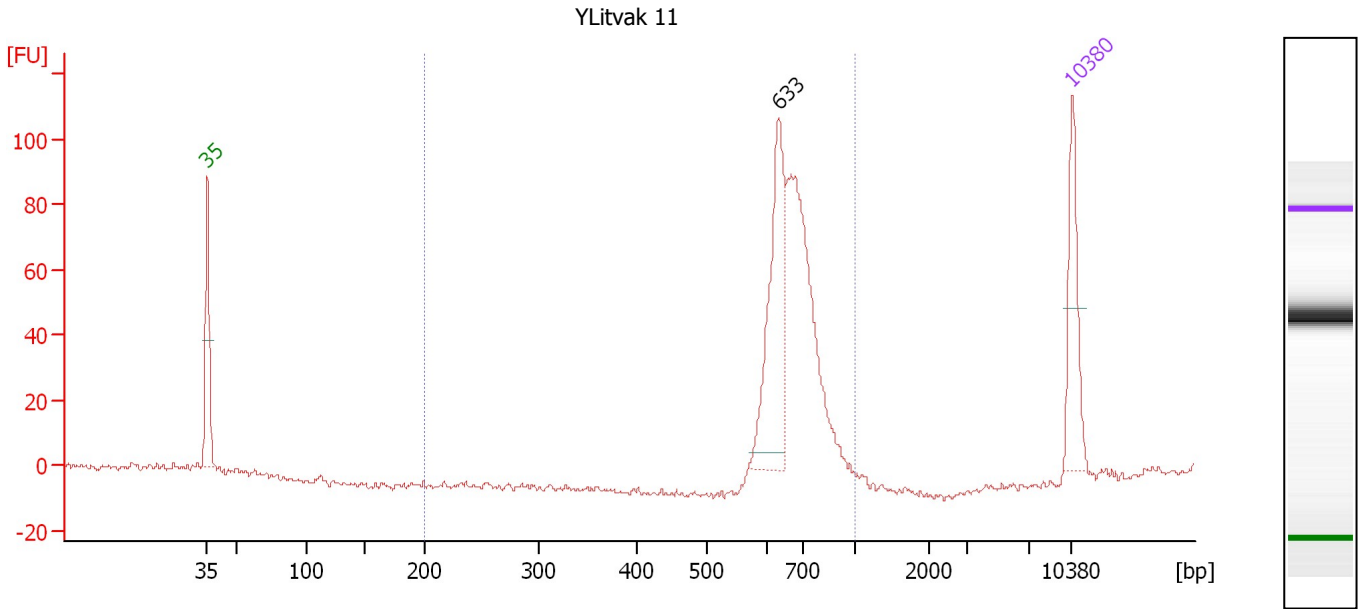
Region table for sample 2 : YLitvak 34-79

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	681	675.88	924.2	1,512.6	100	8.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
 Modified: 10/25/2018 11:29:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : YLitvak 11

Number of peaks found: 1 Corr. Area 1: 433.8
 Noise: 0.8

Peak table for sample 3 : YLitvak 11

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	633	198.42	475.0		89.22
3	10,380	75.00	10.9	Upper Marker	113.00

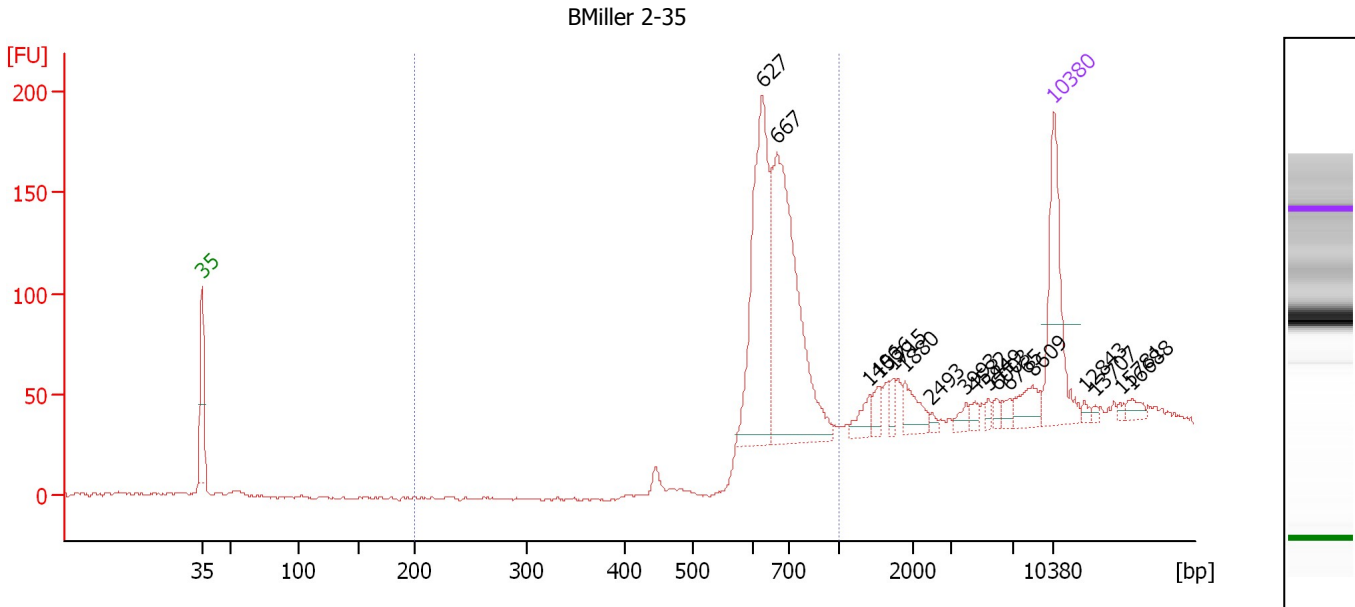
Region table for sample 3 : YLitvak 11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	679	477.58	433.8	1,073.8	99	10.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
 Modified: 10/25/2018 11:29:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BMiller 2-35

Number of peaks found: 17 Corr. Area 1: 741.5
 Noise: 0.6

Peak table for sample 4 : BMiller 2-35

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	187.37	452.9		89.04
3	667	251.18	570.5		90.27
4	1,406	13.24	14.3		97.84
5	1,536	10.29	10.2		98.63
6	1,715	8.15	7.2		99.73
7	1,880	20.03	16.1		100.73
8	2,493	2.83	1.7		102.97
9	3,993	6.23	2.4		105.77
10	4,582	4.99	1.7		106.52
11	5,449	3.83	1.1		107.61
12	6,003	4.93	1.2		108.31
13	6,765	5.96	1.3		109.28
14	8,609	17.37	3.1		111.20
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,843	0.00	0.0		115.50
17	13,707	0.00	0.0		116.37
18	15,781	0.00	0.0		118.48
19	16,688	0.00	0.0		119.40

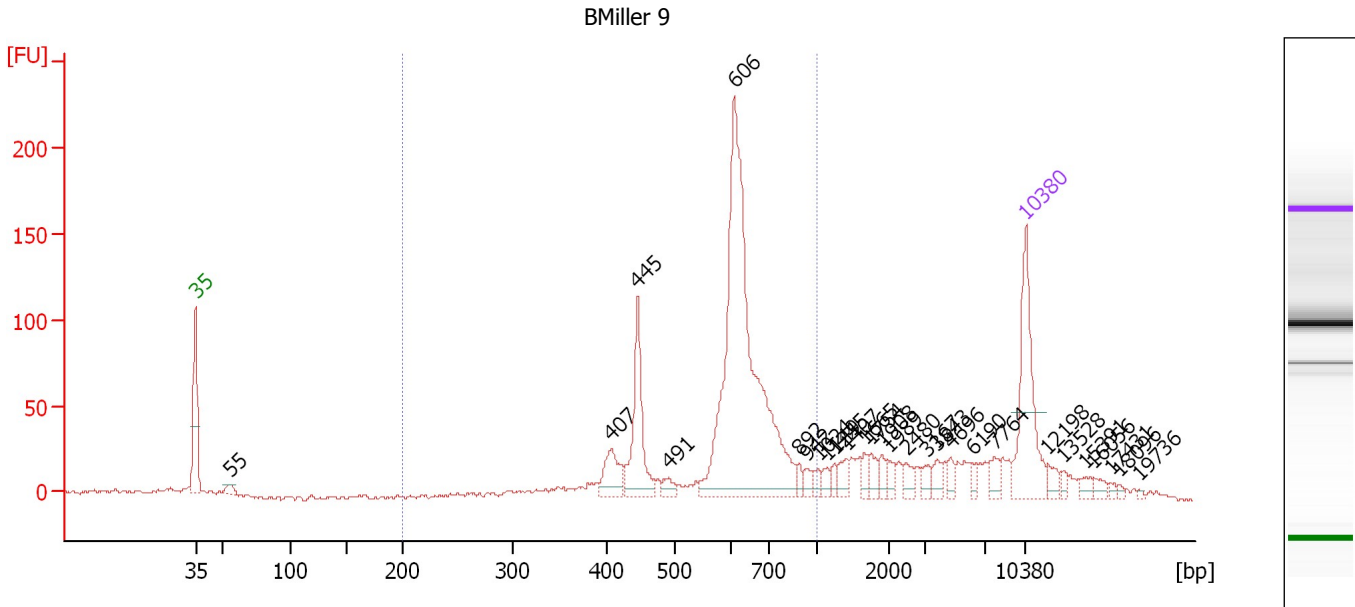
Region table for sample 4 : BMiller 2-35

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	677	442.10	741.5	999.2	70	11.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : BMiller 9

Number of peaks found: 28 Corr. Area 1: 969.5
 Noise: 1.2

Peak table for sample 5 : BMiller 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	55	8.98	248.6		45.88
3	407	34.67	129.2		78.07
4	445	80.00	272.1		80.27
5	491	8.83	27.2		82.88
6	606	393.34	983.1		88.41
7	892	6.32	10.7		93.89
8	942	6.87	11.1		94.57
9	1,024	6.91	10.2		95.51
10	1,149	6.61	8.7		96.28
11	1,245	5.90	7.2		96.86
12	1,407	10.46	11.3		97.85
13	1,665	7.89	7.2		99.42
14	1,754	10.14	8.8		99.96
15	1,908	7.99	6.3		100.91
16	1,989	6.72	5.1		101.40
17	2,480	7.93	4.8		102.93
18	3,167	7.30	3.5		104.73
19	3,843	8.14	3.2		105.58
20	4,696	6.34	2.0		106.66
21	6,190	5.48	1.3		108.55
22	7,764	9.95	1.9		110.35
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,198	0.00	0.0		114.84
25	13,528	0.00	0.0		116.19

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
Modified: 10/25/2018 11:29:53 AM

Electropherogram Summary Continued ...

... Peak table for sample 5 : BMiller 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	15,391	0.00	0.0		118.08
27	16,056	0.00	0.0		118.75
28	17,431	0.00	0.0		120.15
29	18,096	0.00	0.0		120.82
30	19,736	0.00	0.0		122.49

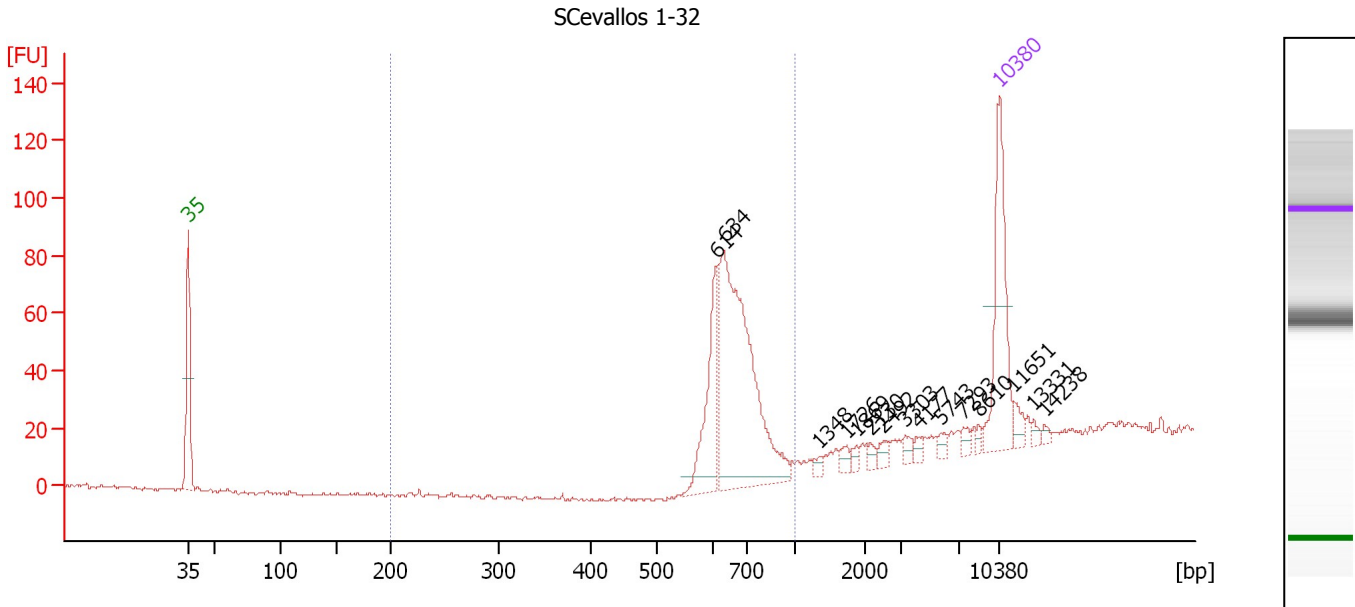
Region table for sample 5 : BMiller 9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	600	576.66	969.5	1,561.4	68	20.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : SCevallos 1-32

Number of peaks found: 15 Corr. Area 1: 270.3
 Noise: 0.4

Peak table for sample 6 : SCevallos 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	614	75.68	186.7		88.65
3	634	243.08	581.0		89.25
4	1,348	4.20	4.7		97.49
5	1,726	5.50	4.8		99.79
6	1,869	4.04	3.3		100.67
7	2,130	4.38	3.1		101.86
8	2,492	5.73	3.5		102.97
9	3,303	5.64	2.6		104.90
10	4,177	3.98	1.4		106.00
11	5,743	4.75	1.3		107.98
12	7,293	5.27	1.1		109.87
13	8,610	3.56	0.6		111.21
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,651	0.00	0.0		114.29
16	13,331	0.00	0.0		115.99
17	14,238	0.00	0.0		116.91

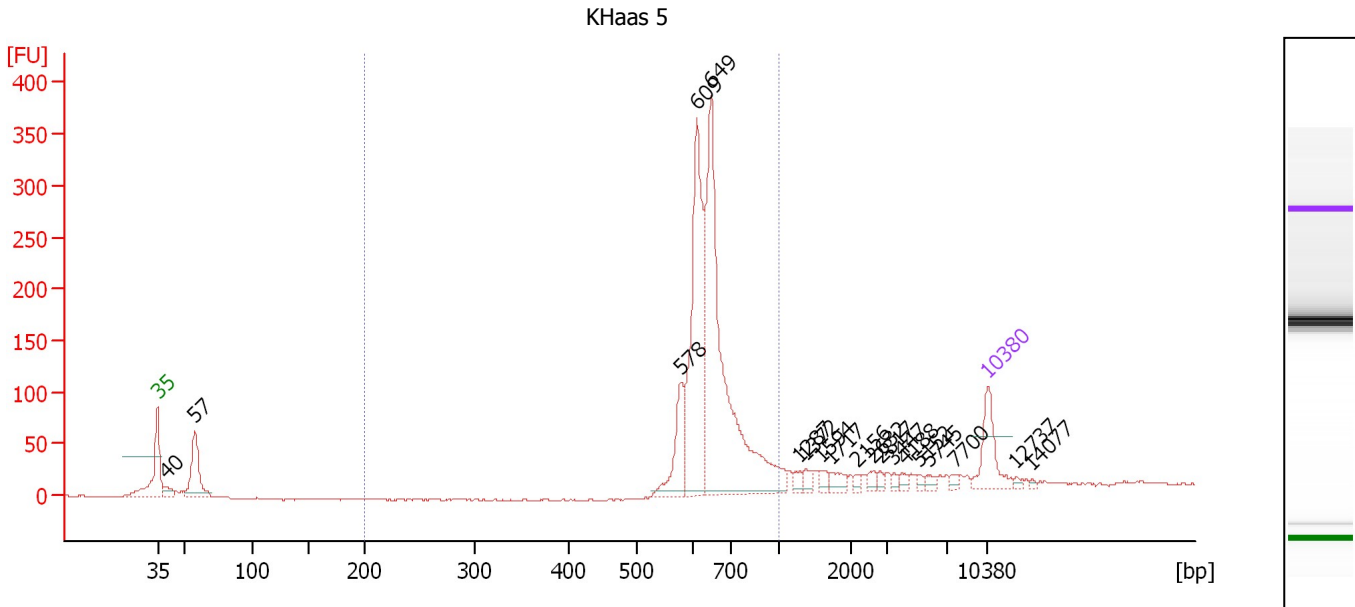
Region table for sample 6 : SCevallos 1-32

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	659	220.22	270.3	508.7	90	7.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : KHaas 5

Number of peaks found: 19 Corr. Area 1: 1,245.6
 Noise: 0.8

Peak table for sample 7 : KHaas 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	40	26.54	1,017.8		43.70
3	57	160.12	4,250.2		46.14
4	578	108.36	284.2		87.14
5	609	407.55	1,013.8		88.50
6	649	692.81	1,617.4		89.71
7	1,287	12.15	14.3		97.12
8	1,372	15.00	16.6		97.63
9	1,594	15.06	14.3		98.99
10	1,717	20.56	18.1		99.74
11	2,156	8.46	5.9		101.94
12	2,632	11.92	6.9		103.39
13	2,817	7.99	4.3		103.96
14	3,447	7.14	3.1		105.08
15	4,188	9.54	3.5		106.02
16	5,152	6.24	1.8		107.24
17	5,745	9.24	2.4		107.99
18	7,700	7.57	1.5		110.28
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,737	0.00	0.0		115.39
21	14,077	0.00	0.0		116.75

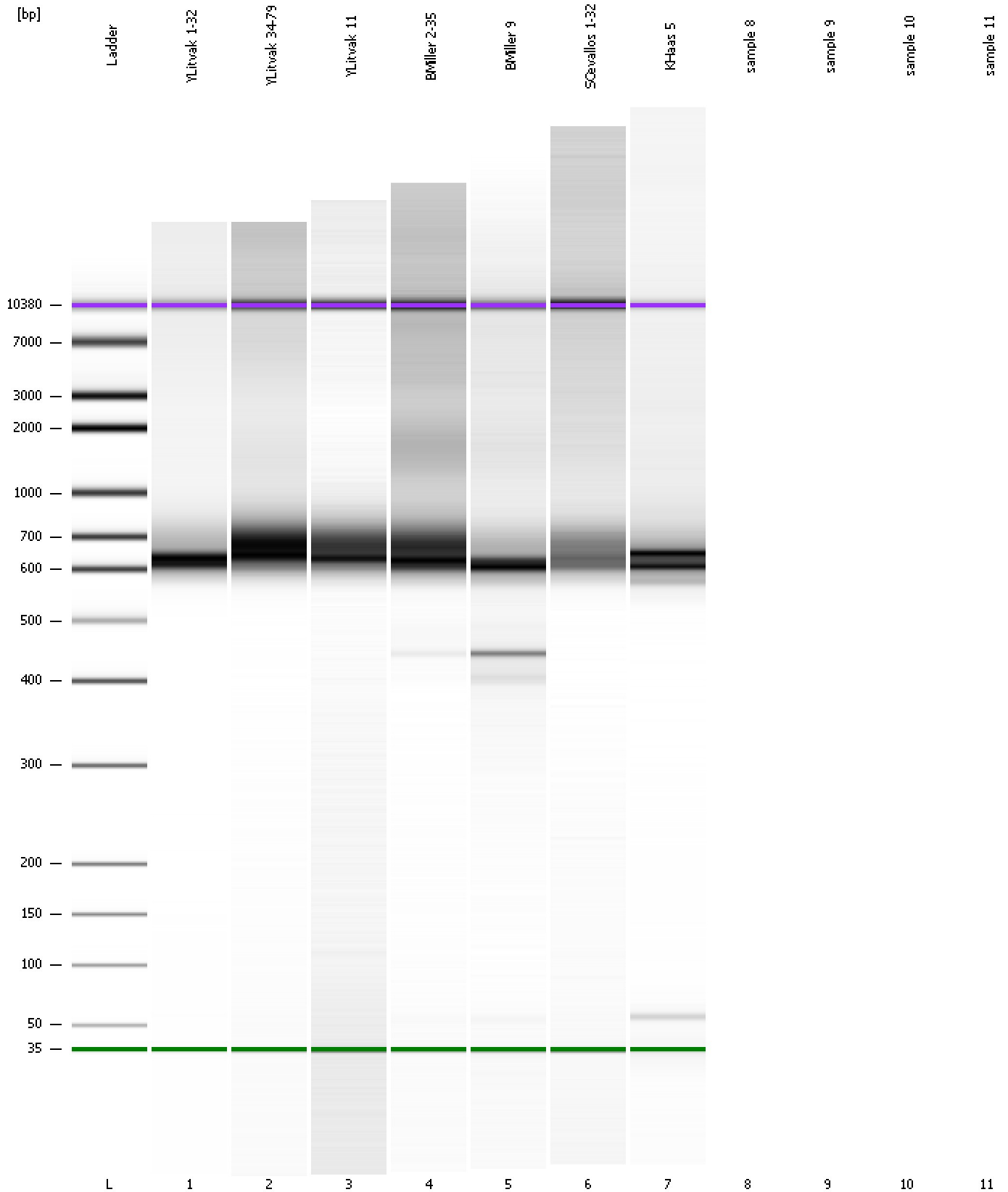
Region table for sample 7 : KHaas 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	656	1,108.04	1,245.6	2,589.6	79	12.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
Modified: 10/25/2018 11:29:53 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-25\2018-10-25_003.xad

Created: 10/25/2018 11:00:07 AM
Modified: 10/25/2018 11:29:53 AM

Invalid Samples

Sample 8 has not been run, no results available.

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.