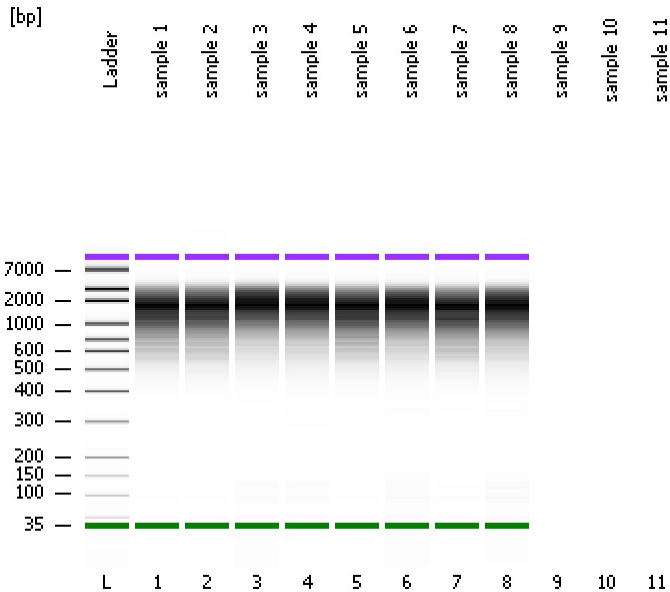


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
Modified: 11/7/2019 2:58:41 PM

Electrophoresis File Run Summary



Instrument Information:

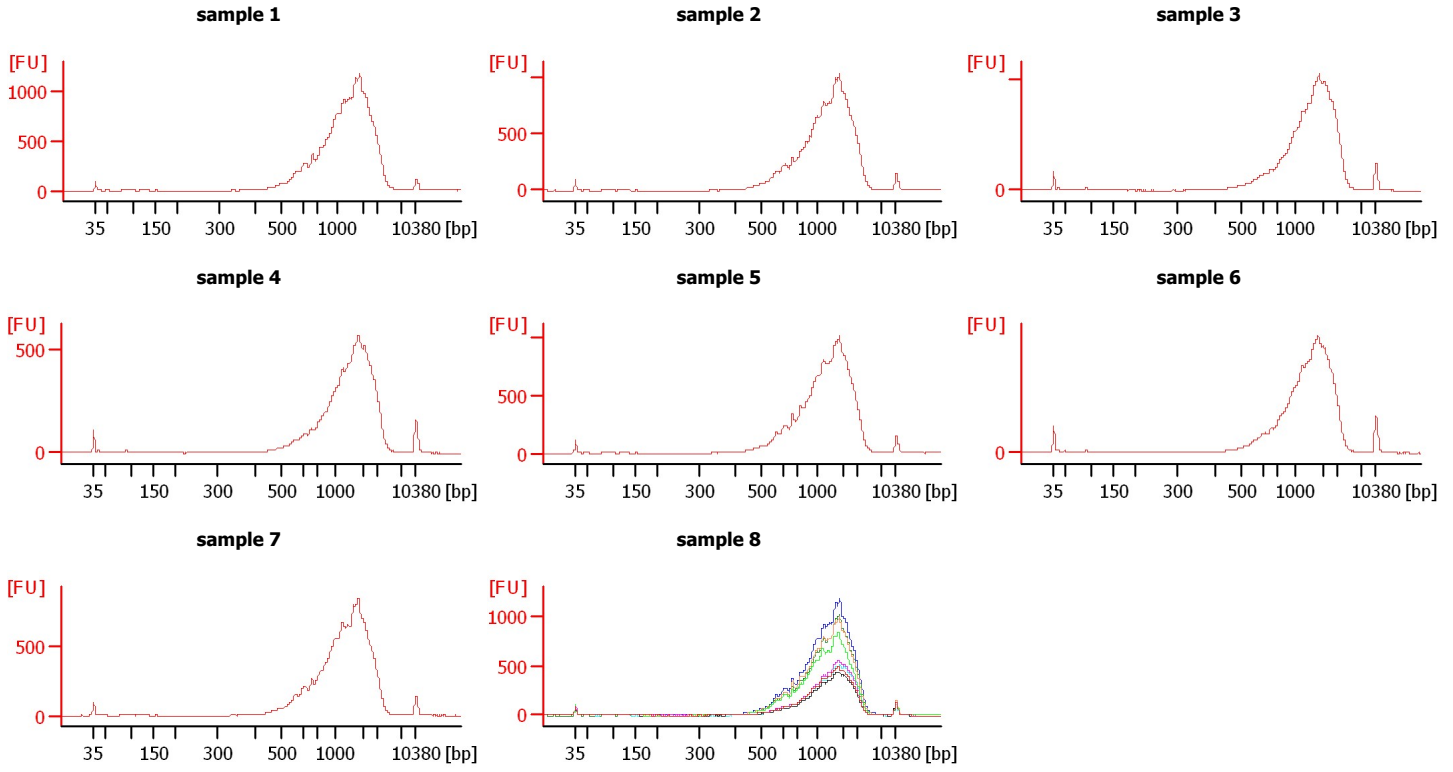
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<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:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
Modified: 11/7/2019 2:58:41 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

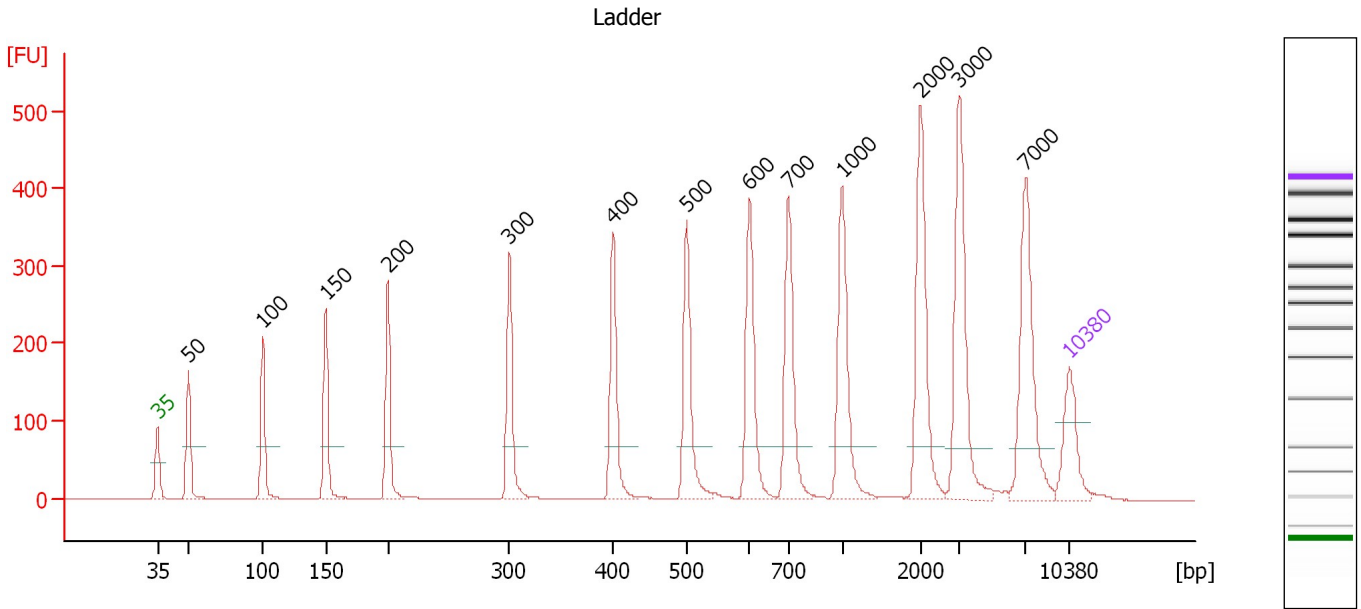
Ladder

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:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

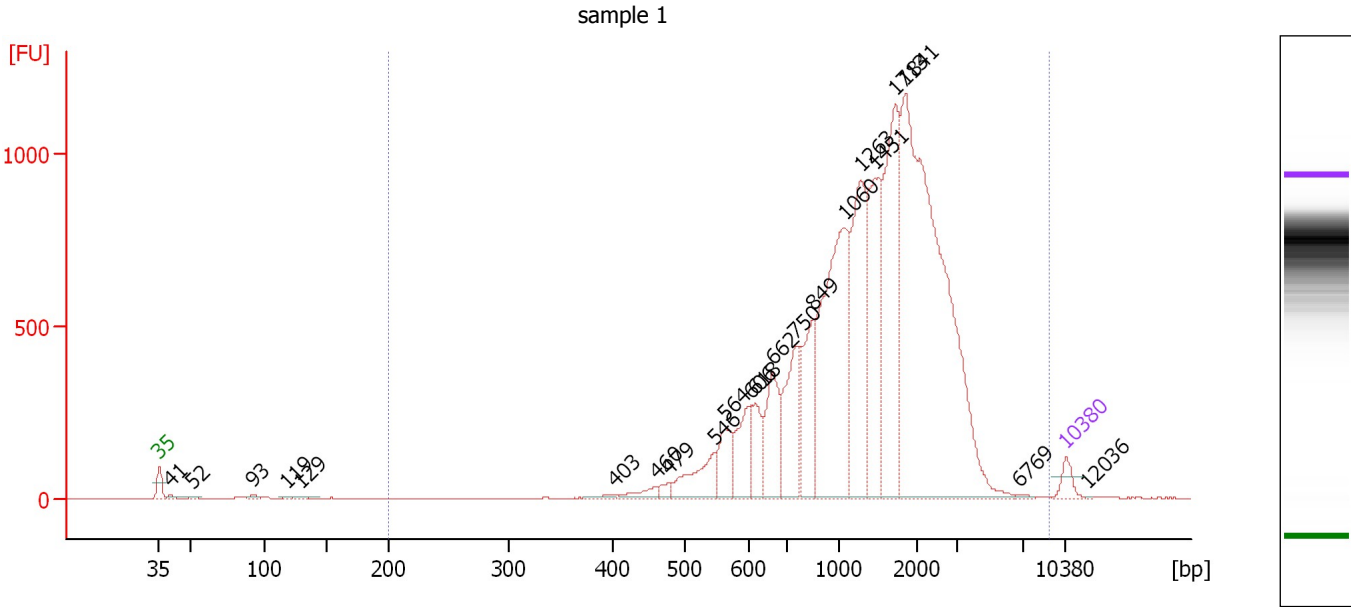
Peak table for Ladder

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	45.39
3	100	150.00	2,272.7	Ladder Peak	51.10
4	150	150.00	1,515.2	Ladder Peak	55.92
5	200	150.00	1,136.4	Ladder Peak	60.70
6	300	150.00	757.6	Ladder Peak	70.04
7	400	150.00	568.2	Ladder Peak	78.00
8	500	150.00	454.5	Ladder Peak	83.62
9	600	150.00	378.8	Ladder Peak	88.49
10	700	150.00	324.7	Ladder Peak	91.45
11	1,000	150.00	227.3	Ladder Peak	95.57
12	2,000	150.00	113.6	Ladder Peak	101.58
13	3,000	150.00	75.8	Ladder Peak	104.59
14	7,000	150.00	32.5	Ladder Peak	109.68
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 22 Corr. Area 1: 13,406.1
 Noise: 0.3

Peak table for sample 1 : sample 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	41	26.64	992.6		43.90
3	52	17.97	523.4		45.62
4	93	29.11	475.5		50.27
5	119	14.82	189.3		52.89
6	129	28.41	332.8		53.93
7	403	26.92	101.2		78.18
8	460	84.94	279.6		81.39
9	479	53.14	168.2		82.43
10	546	334.12	927.2		85.86
11	564	287.35	772.5		86.72
12	606	358.21	895.9		88.66
13	618	248.35	608.9		89.02
14	662	487.61	1,115.8		90.33
15	750	594.49	1,201.2		92.14
16	849	530.82	947.7		93.49
17	1,060	1,697.48	2,425.7		95.93
18	1,263	1,014.88	1,217.6		97.15
19	1,451	854.39	892.5		98.28
20	1,713	1,237.60	1,094.5		99.86
21	1,841	3,520.52	2,897.8		100.63
22	6,769	8.49	1.9		109.39
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,036	0.00	0.0		114.63

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary Continued ...

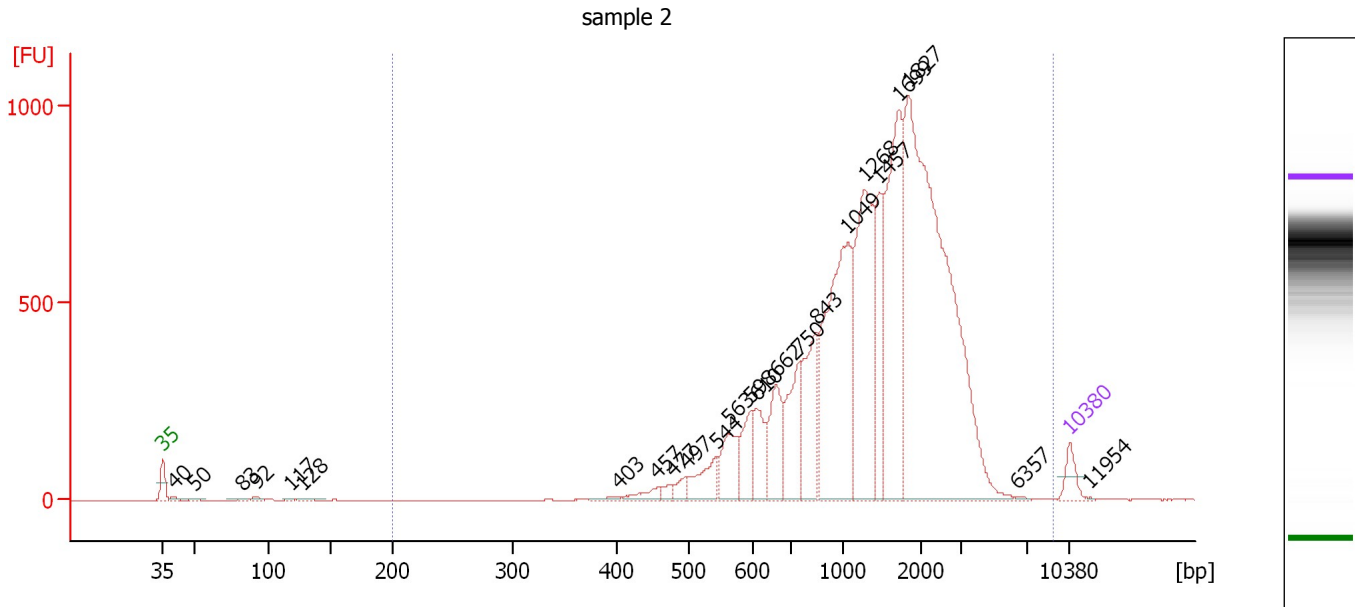
... Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,000	1,560	11,387.97	13,406.1	15,342.5	 99	53.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 24 Corr. Area 1: 11,323.0
 Noise: 0.5

Peak table for sample 2 : sample 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	40	22.21	838.6		43.82
3	50	15.32	462.5		45.41
4	83	14.49	265.1		49.14
5	92	23.65	391.2		50.14
6	117	12.64	163.1		52.77
7	128	23.92	282.7		53.82
8	403	24.26	91.1		78.18
9	457	67.42	223.7		81.18
10	477	45.42	144.3		82.32
11	497	63.87	194.7		83.45
12	544	190.34	529.9		85.77
13	563	241.57	650.2		86.68
14	598	217.96	551.9		88.41
15	610	211.75	526.3		88.77
16	662	335.56	768.3		90.32
17	750	355.71	718.7		92.14
18	843	470.64	846.2		93.41
19	1,049	1,196.52	1,727.6		95.86
20	1,268	962.04	1,149.1		97.18
21	1,457	395.03	410.7		98.32
22	1,699	993.34	885.9		99.77
23	1,827	2,722.42	2,257.2		100.55
24	6,357	6.03	1.4		108.86
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
Modified: 11/7/2019 2:58:41 PM

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

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	11,954	0.00	0.0		114.55

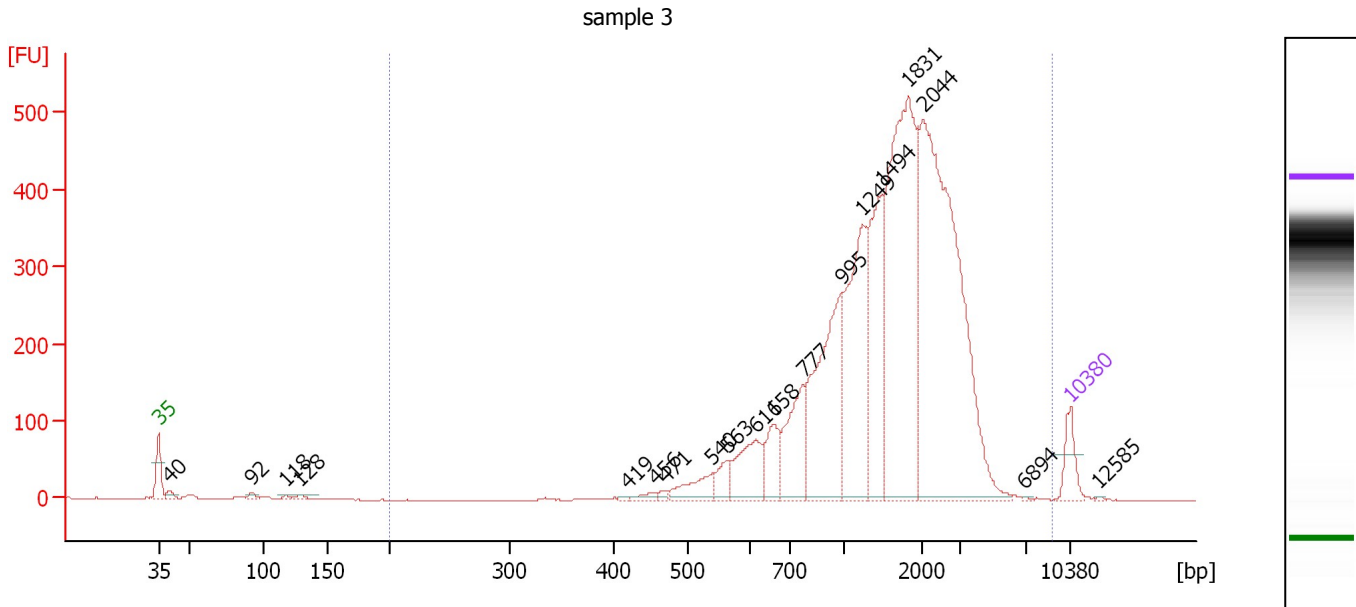
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,000	1,571	8,449.21	11,323.0	11,278.3	 100	52.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

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 Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 19 Corr. Area 1: 5,561.0
 Noise: 0.4

Peak table for sample 3 : sample 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	40	23.52	880.1		43.88
3	92	17.88	294.5		50.18
4	118	9.83	126.4		52.81
5	128	19.51	230.4		53.82
6	419	5.81	21.0		79.06
7	456	21.48	71.4		81.13
8	471	13.35	42.9		82.01
9	540	103.12	289.5		85.55
10	563	68.26	183.6		86.70
11	611	191.85	475.5		88.82
12	658	131.94	303.8		90.20
13	777	247.71	483.1		92.51
14	995	571.08	869.5		95.50
15	1,249	543.51	659.2		97.07
16	1,494	427.34	433.4		98.54
17	1,831	1,014.66	839.7		100.57
18	2,044	1,393.48	1,032.8		101.72
19	6,894	2.43	0.5		109.55
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,585	0.00	0.0		115.16

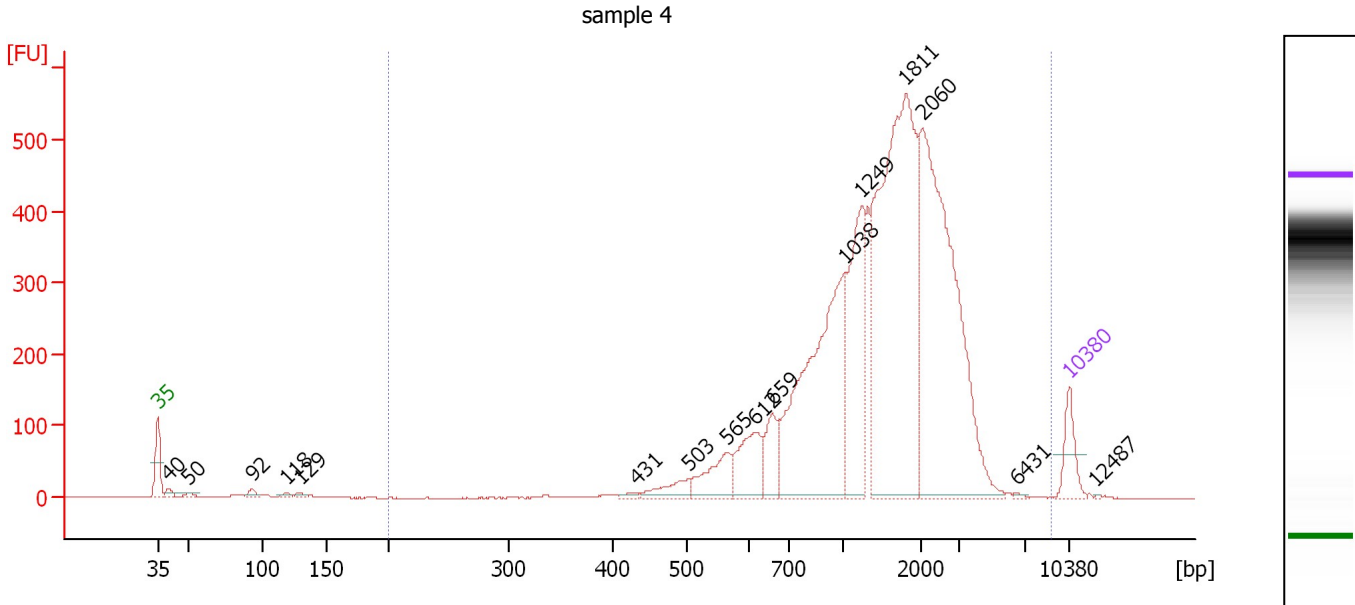
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,000	1,734	4,770.34	5,561.0	5,702.4	99	50.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 16 Corr. Area 1: 6,016.8
 Noise: 0.3

Peak table for sample 4 : sample 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	40	22.15	832.6		43.85
3	50	15.06	452.0		45.44
4	92	21.77	356.6		50.24
5	118	13.36	171.7		52.83
6	129	12.74	149.5		53.91
7	431	10.06	35.3		79.76
8	503	62.82	189.3		83.76
9	565	126.97	340.7		86.77
10	612	159.28	394.5		88.84
11	659	111.50	256.2		90.25
12	1,038	769.56	1,123.5		95.79
13	1,249	384.21	466.2		97.06
14	1,811	1,151.62	963.4		100.45
15	2,060	994.53	731.5		101.76
16	6,431	3.98	0.9		108.96
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,487	0.00	0.0		115.07

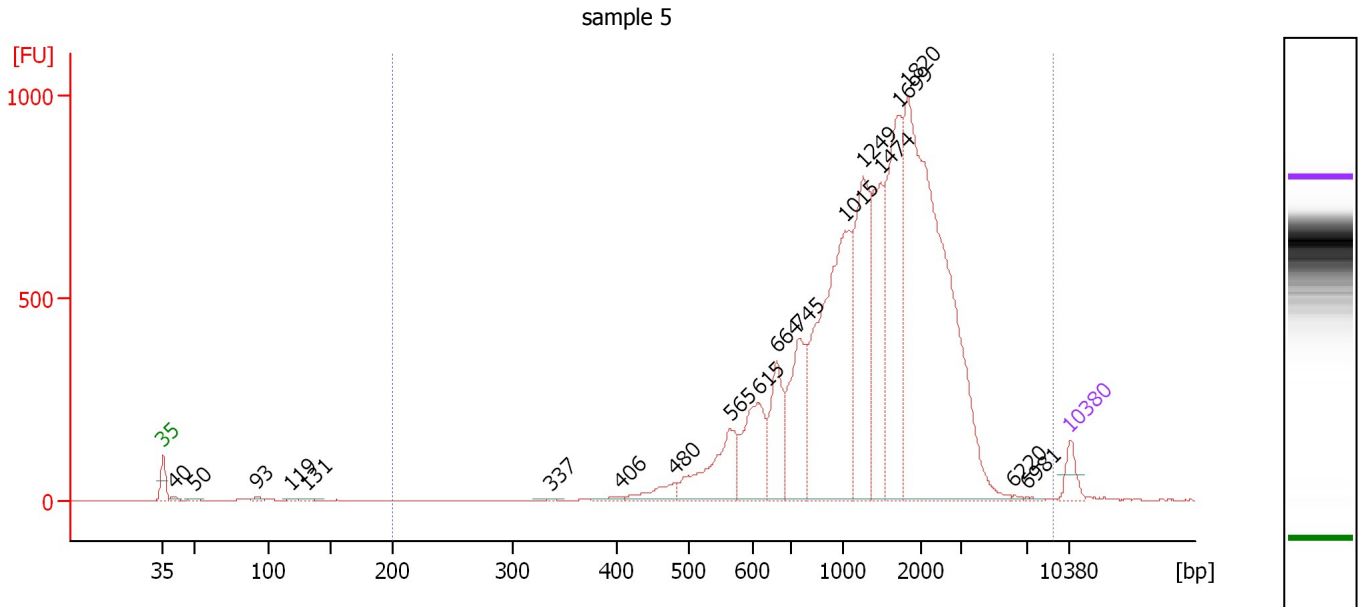
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,000	1,662	3,973.94	6,016.8	4,959.4	99	50.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 19 Corr. Area 1: 11,315.5
 Noise: 0.3

Peak table for sample 5 : sample 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	21.63	809.8		43.87
3	50	15.71	477.1		45.37
4	93	19.45	317.9		50.27
5	119	12.45	159.2		52.88
6	131	16.17	187.7		54.04
7	337	6.33	28.5		72.99
8	406	22.07	82.4		78.31
9	480	106.26	335.6		82.48
10	565	425.20	1,139.9		86.79
11	615	415.66	1,024.5		88.92
12	664	351.73	802.9		90.38
13	745	516.08	1,049.2		92.07
14	1,015	1,405.61	2,097.9		95.66
15	1,249	808.84	981.5		97.06
16	1,474	517.64	532.1		98.42
17	1,699	853.84	761.3		99.78
18	1,820	2,419.86	2,014.4		100.50
19	6,220	5.33	1.3		108.69
20	6,981	5.21	1.1		109.66
21	10,380	75.00	10.9	Upper Marker	113.00

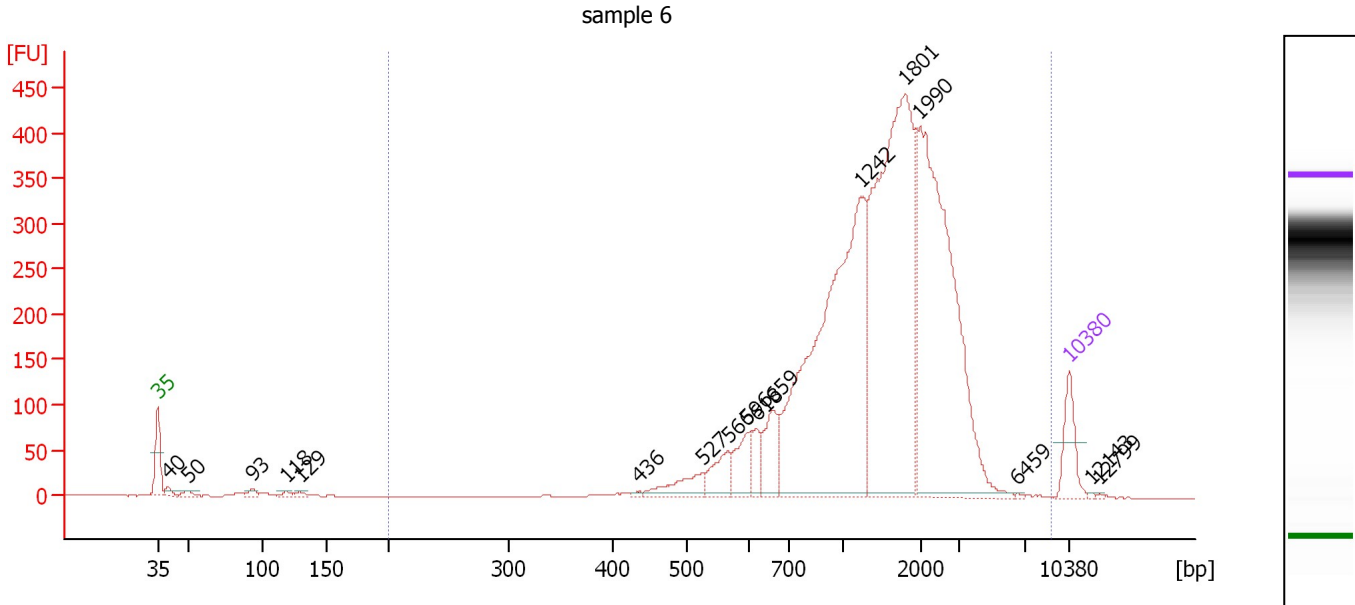
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Total	Size distribution in CV [%]
200	9,000	1,543	7,871.46	11,315.5	10,696.0	99	53.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 17 Corr. Area 1: 4,801.8
 Noise: 0.4

Peak table for sample 6 : sample 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	40	19.13	725.0		43.79
3	50	14.21	434.1		45.33
4	93	15.76	257.5		50.27
5	118	9.76	125.2		52.84
6	129	10.13	118.6		53.93
7	436	4.30	15.0		80.00
8	527	76.61	220.1		84.95
9	566	80.07	214.4		86.83
10	596	87.84	223.1		88.31
11	618	51.10	125.4		89.01
12	659	104.26	239.6		90.24
13	1,242	1,053.62	1,285.6		97.02
14	1,801	1,012.86	852.2		100.39
15	1,990	856.20	651.9		101.52
16	6,459	1.93	0.5		108.99
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,143	0.00	0.0		114.73
19	12,799	0.00	0.0		115.37

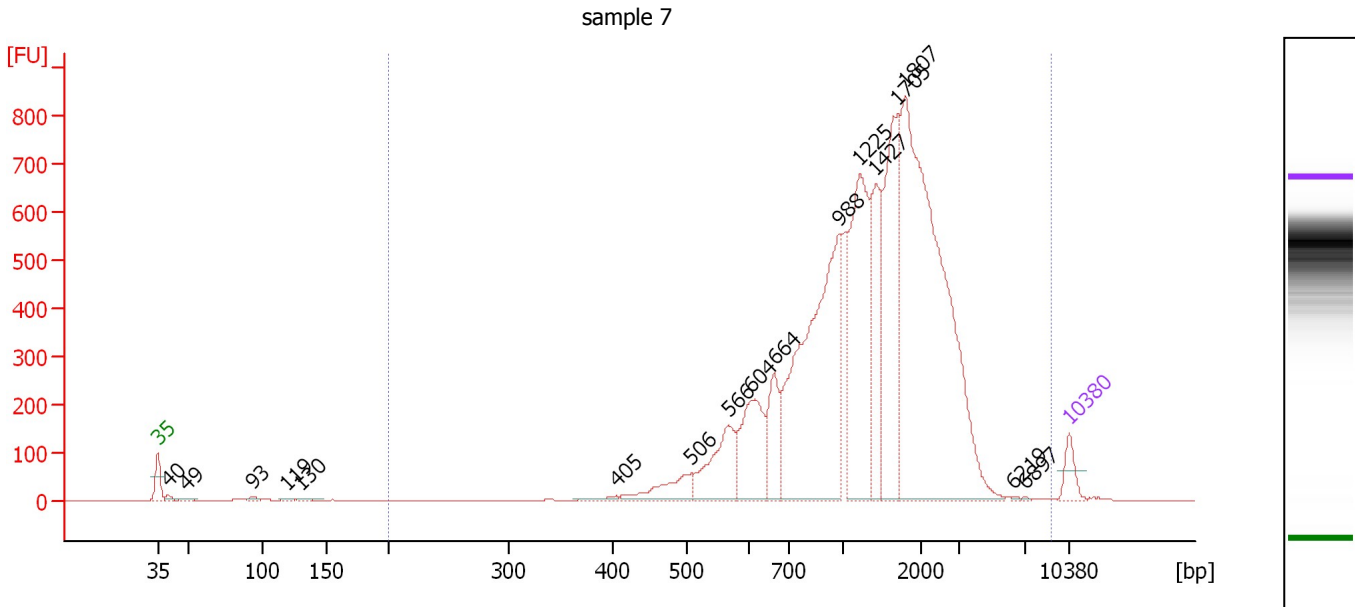
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,000	1,629	3,492.38	4,801.8	4,408.5	99	50.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 17 Corr. Area 1: 9,410.2
 Noise: 0.3

Peak table for sample 7 : sample 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	40	19.90	757.9		43.76
3	49	15.35	474.7		45.23
4	93	19.61	319.3		50.30
5	119	13.37	170.0		52.94
6	130	15.71	182.8		54.01
7	405	21.49	80.5		78.25
8	506	186.22	557.1		83.93
9	566	360.01	963.9		86.83
10	604	430.50	1,080.1		88.60
11	664	262.54	599.3		90.38
12	988	1,557.16	2,388.6		95.40
13	1,225	897.54	1,110.1		96.92
14	1,427	444.19	471.5		98.14
15	1,705	707.32	628.4		99.81
16	1,807	2,274.05	1,907.2		100.42
17	6,219	3.45	0.8		108.69
18	6,897	2.98	0.7		109.55
19	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,000	1,512	7,552.33	9,410.2	10,411.0	99	53.2

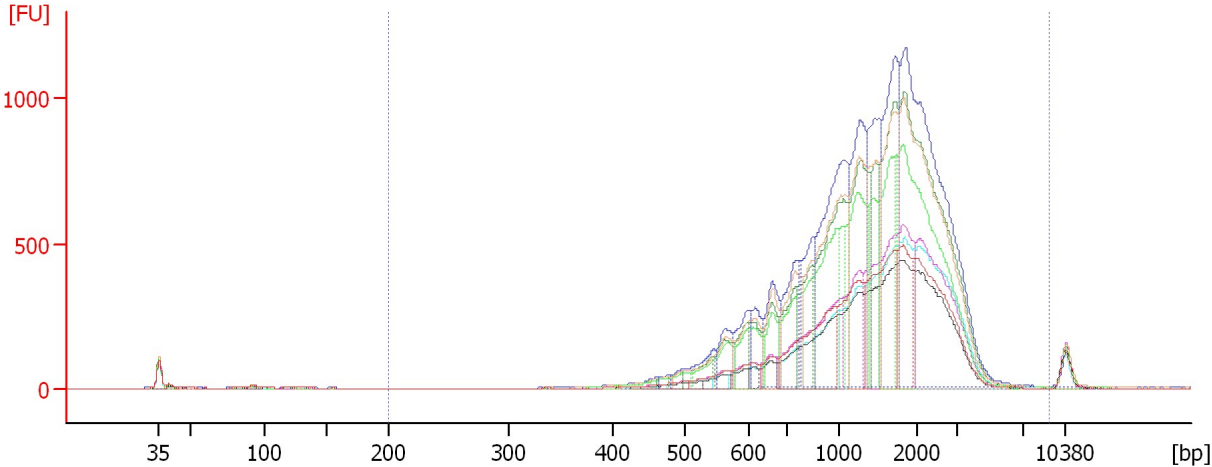
Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Electropherogram Summary Continued ...

sample 8

● 8: sample 8	● 2: sample 2	● 4: sample 4	● 6: sample 6
● 1: sample 1	● 3: sample 3	● 5: sample 5	● 7: sample 7



Overall Results for sample 8 : sample 8

Number of peaks found: 15 Corr. Area 1: 5,394.0
 Noise: 0.3

Peak table for sample 8 : sample 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	40	32.25	1,226.5		43.77
3	48	25.99	816.9		45.10
4	84	21.90	393.4		49.31
5	93	33.65	546.2		50.34
6	119	17.71	226.0		52.90
7	129	27.60	324.6		53.88
8	503	81.10	244.5		83.75
9	569	159.80	425.5		86.98
10	613	173.88	429.6		88.88
11	660	148.14	340.1		90.27
12	976	791.98	1,228.9		95.24
13	1,236	623.01	763.5		96.99
14	1,705	818.13	726.9		99.81
15	1,808	494.37	414.4		100.43
16	1,995	1,066.20	809.6		101.56
17	10,380	75.00	10.9	Upper Marker	113.00

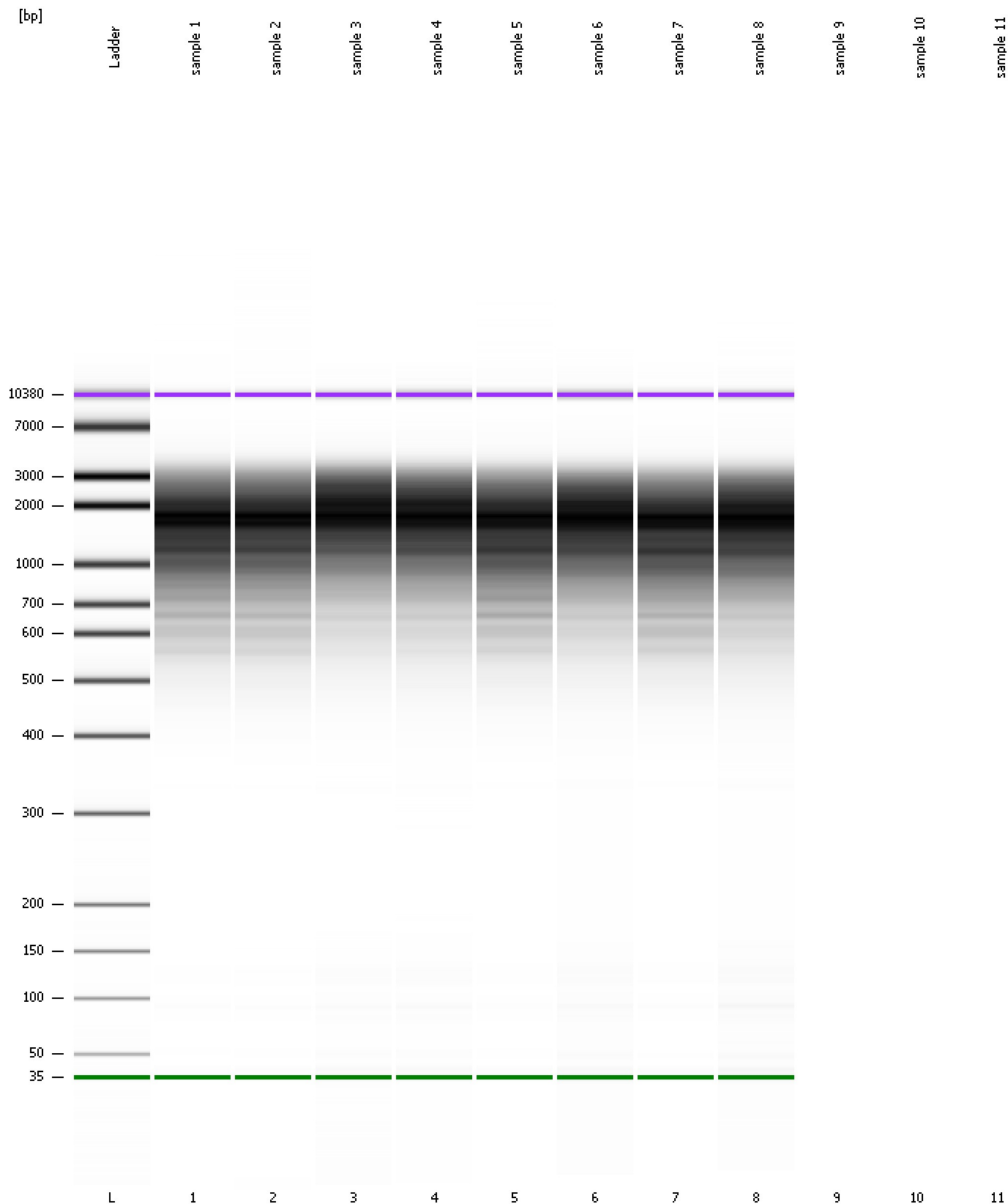
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	9,000	1,607	4,514.05	5,394.0	5,819.3	98	51.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
Modified: 11/7/2019 2:58:41 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
Modified: 11/7/2019 2:58:41 PM

Invalid Samples

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.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2019-11-07\2019-11-07_e_18_timepoint.xad

Created: 11/7/2019 2:10:41 PM
 Modified: 11/7/2019 2:58:41 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		11/7/2019 2:43:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-07\2019-11-07_003.xad)		Instrument	Run		11/7/2019 2:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/7/2019 2:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/7/2019 2:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/7/2019 2:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/7/2019 2:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/7/2019 2:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/7/2019 2:10:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1