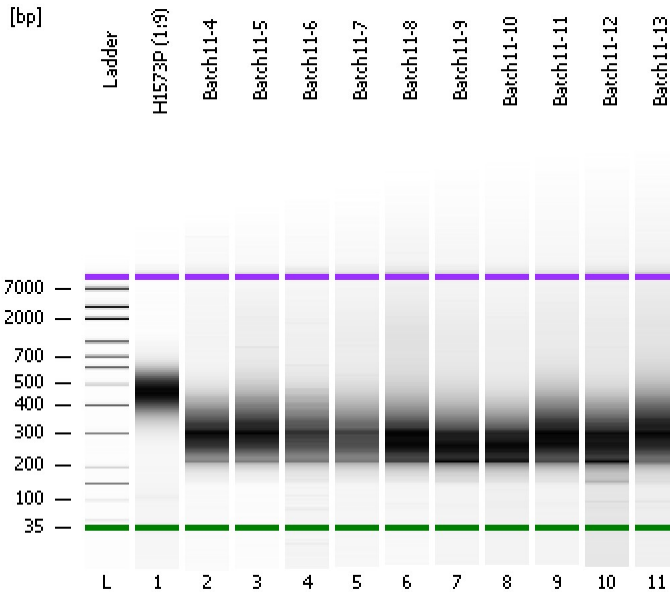


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
Modified: 10/22/2018 3:09:56 PM

Electrophoresis File Run Summary



Instrument Information:

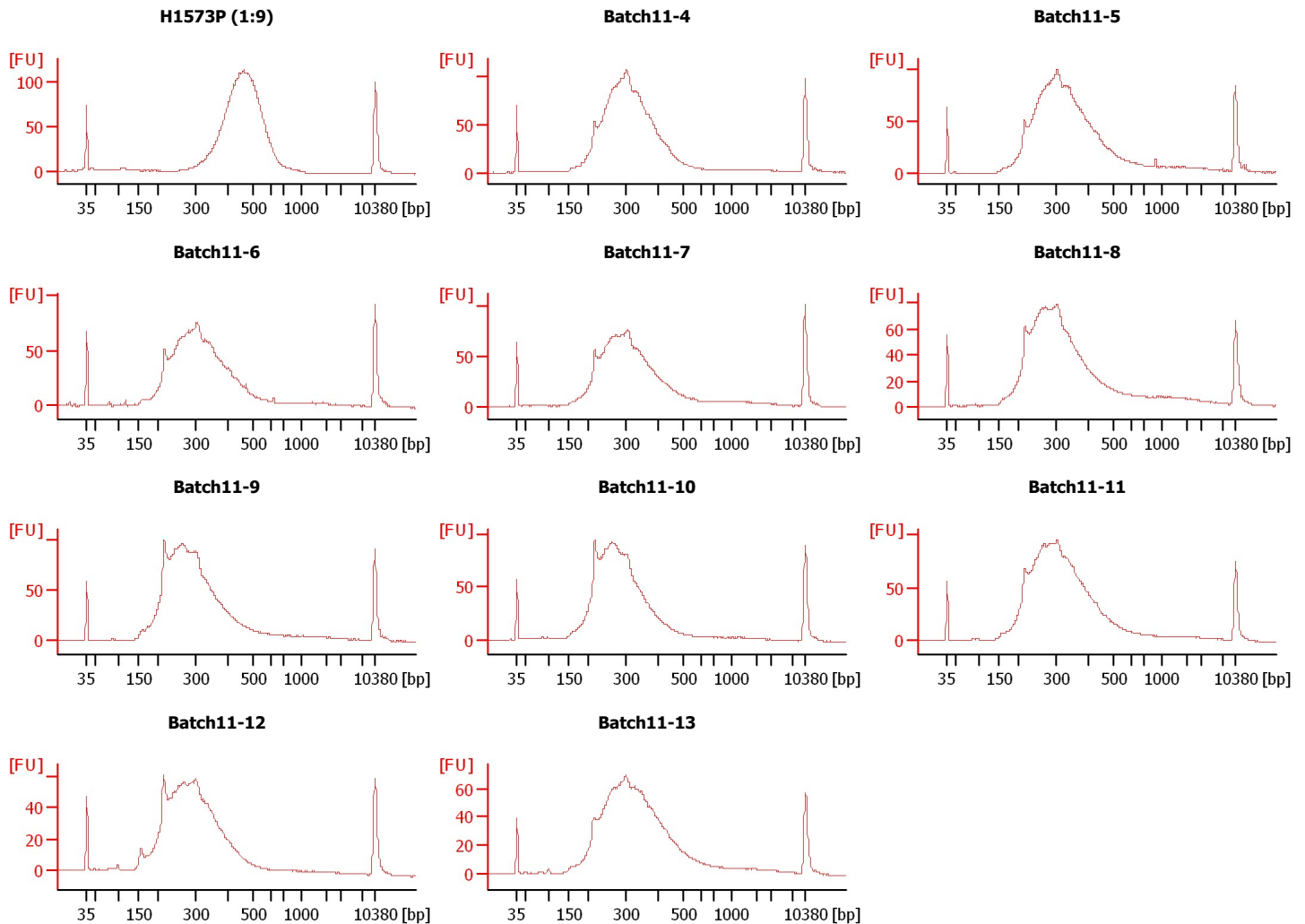
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H1573P (1:9)		<input type="checkbox"/>	✓			
Batch11-4		<input type="checkbox"/>	✓			
Batch11-5		<input type="checkbox"/>	✓			
Batch11-6		<input type="checkbox"/>	✓			
Batch11-7		<input type="checkbox"/>	✓			
Batch11-8		<input type="checkbox"/>	✓			
Batch11-9		<input type="checkbox"/>	✓			
Batch11-10		<input type="checkbox"/>	✓			
Batch11-11		<input type="checkbox"/>	✓			
Batch11-12		<input type="checkbox"/>	✓			
Batch11-13		<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\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
Modified: 10/22/2018 3:09:56 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

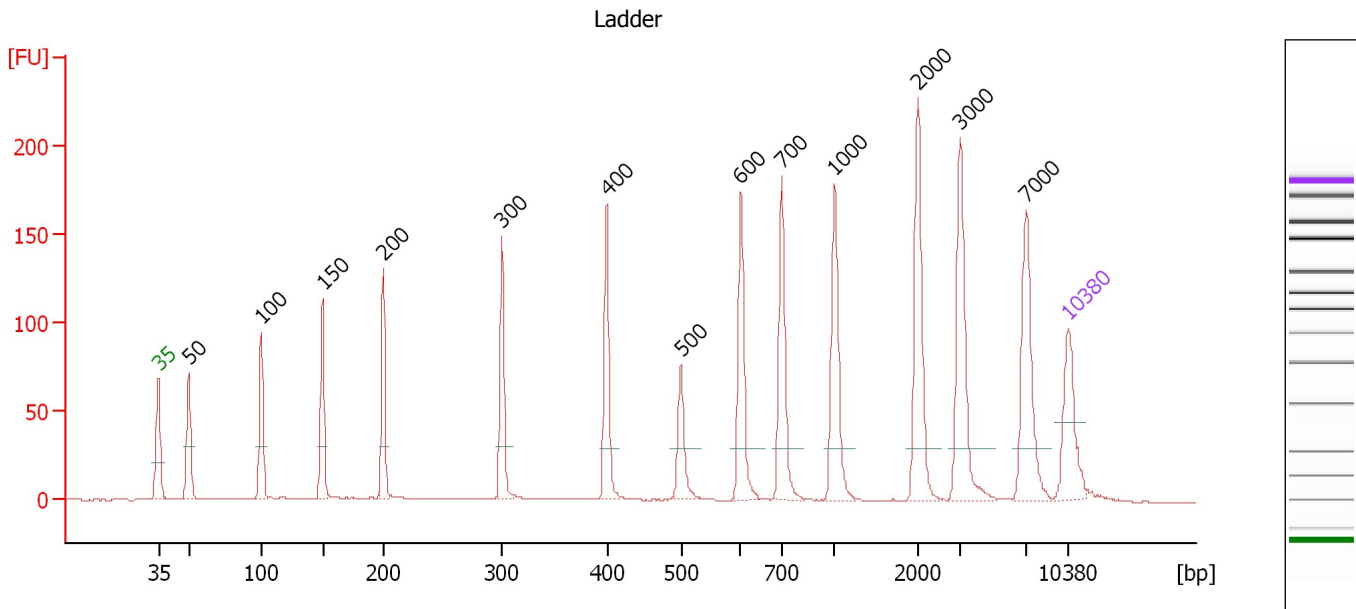
Ladder

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\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

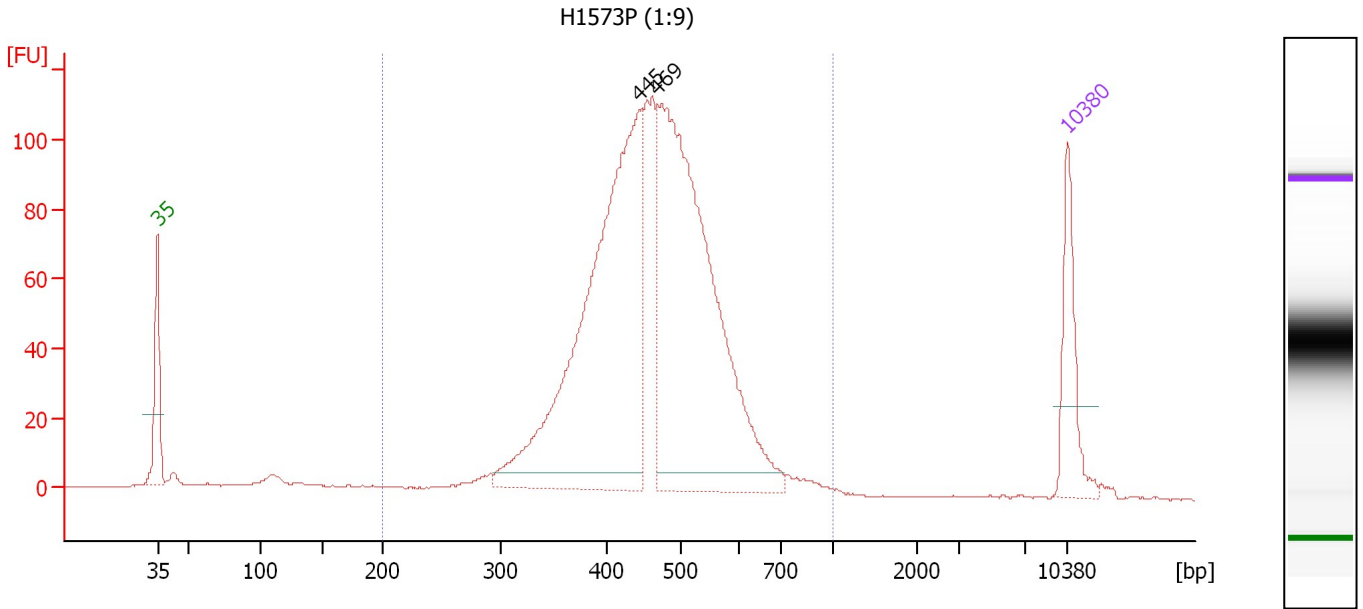
Peak table for Ladder

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.88
4	150	150.00	1,515.2	Ladder Peak	55.62
5	200	150.00	1,136.4	Ladder Peak	60.32
6	300	150.00	757.6	Ladder Peak	69.43
7	400	150.00	568.2	Ladder Peak	77.49
8	500	150.00	454.5	Ladder Peak	83.20
9	600	150.00	378.8	Ladder Peak	87.81
10	700	150.00	324.7	Ladder Peak	90.94
11	1,000	150.00	227.3	Ladder Peak	95.04
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.66
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : H1573P (1:9)

Number of peaks found: 2 Corr. Area 1: 1,589.8
 Noise: 0.2

Peak table for sample 1 : H1573P (1:9)

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	445	732.83	2,495.6		80.06
3	469	742.18	2,396.5		81.45
4	10,380	75.00	10.9	Upper Marker	113.00

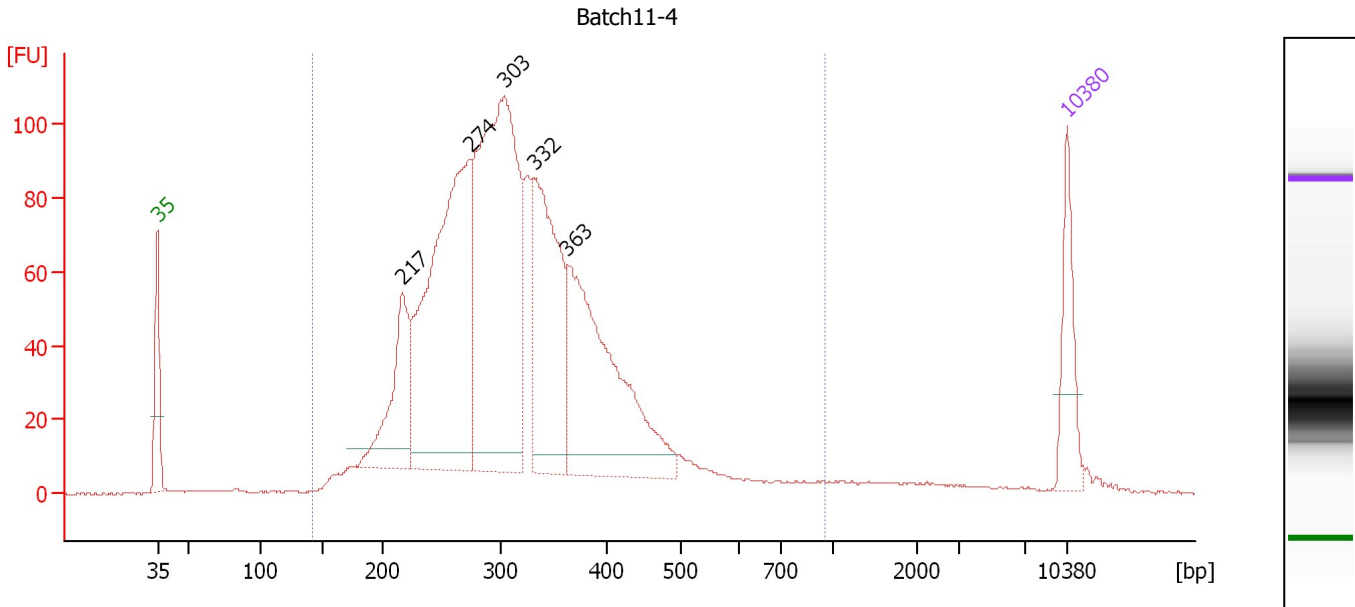
Region table for sample 1 : H1573P (1:9)

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	466	1,725.60	1,589.8	5,891.8	95	19.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Batch11-4

Number of peaks found: 5 Corr. Area 1: 2,140.5
 Noise: 0.2

Peak table for sample 2 : Batch11-4

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	217	197.93	1,384.7		61.83
3	274	676.45	3,742.9		67.05
4	303	765.93	3,832.9		69.66
5	332	347.64	1,588.0		71.99
6	363	446.79	1,862.4		74.55
7	10,380	75.00	10.9	Upper Marker	113.00

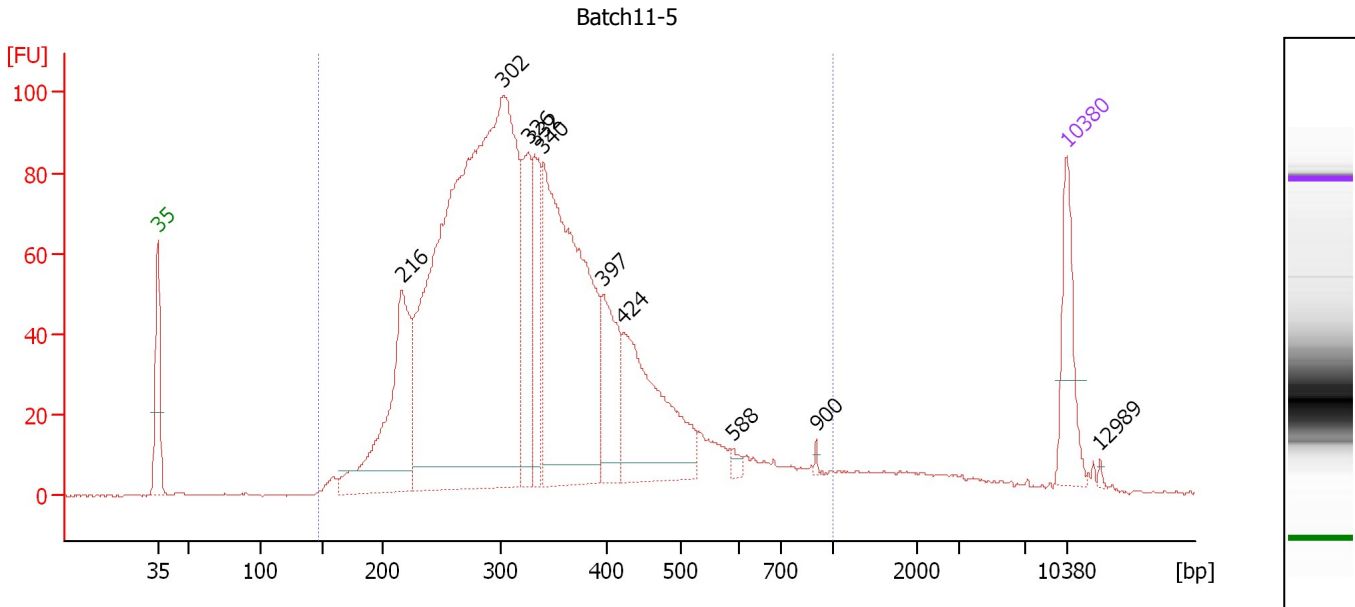
Region table for sample 2 : Batch11-4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
143	945	323	3,050.15	2,140.5	15,705.3	95	29.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Batch11-5

Number of peaks found: 10 Corr. Area 1: 2,195.4
 Noise: 0.2

Peak table for sample 3 : Batch11-5

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	216	312.23	2,186.3		61.81
3	302	1,517.90	7,608.0		69.62
4	326	150.55	699.9		71.52
5	332	112.50	513.7		72.00
6	340	614.09	2,735.7		72.67
7	397	123.80	472.0		77.29
8	424	253.30	905.4		78.86
9	588	9.27	23.9		87.24
10	900	3.12	5.3		93.67
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,989	0.00	0.0		115.52

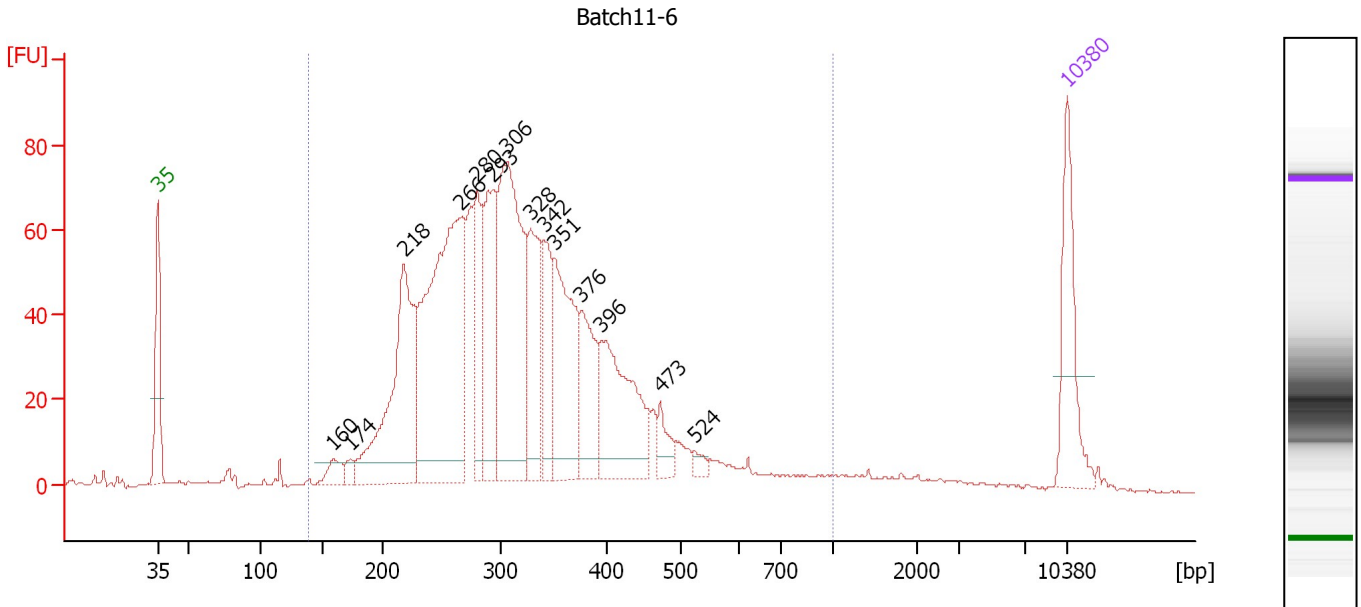
Region table for sample 3 : Batch11-5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
147	1,000	345	3,532.16	2,195.4	17,526.6	94	34.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Batch11-6

Number of peaks found: 14 Corr. Area 1: 1,646.3
 Noise: 0.3

Peak table for sample 4 : Batch11-6

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	160	22.95	217.7		56.53
3	174	12.06	105.2		57.85
4	218	262.48	1,824.7		61.95
5	266	438.21	2,499.5		66.30
6	280	96.01	519.4		67.62
7	293	148.95	769.0		68.84
8	306	315.45	1,562.1		69.92
9	328	122.36	564.5		71.72
10	342	68.64	304.3		72.80
11	351	165.06	712.9		73.53
12	376	86.26	347.3		75.58
13	396	156.54	599.4		77.15
14	473	25.31	81.0		81.69
15	524	8.31	24.0		84.33
16	10,380	75.00	10.9	Upper Marker	113.00

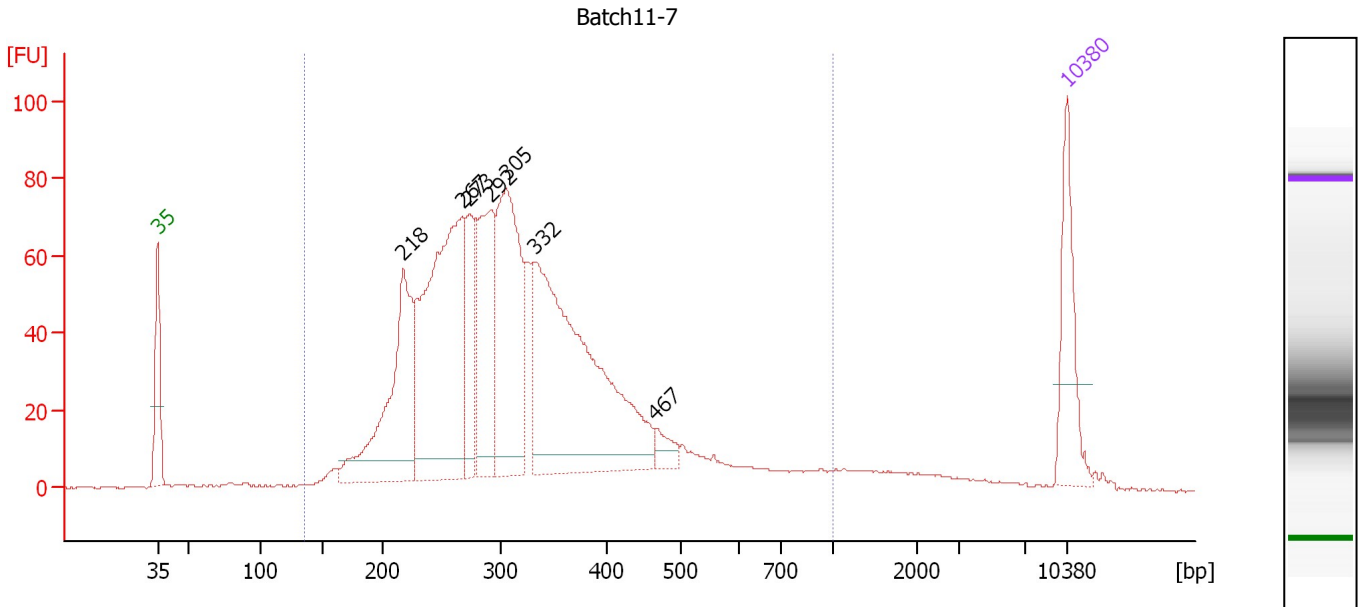
Region table for sample 4 : Batch11-6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
139	1,000	330	2,252.27	1,646.3	11,573.0	94	33.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Batch11-7

Number of peaks found: 7 Corr. Area 1: 1,717.6
 Noise: 0.3

Peak table for sample 5 : Batch11-7

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	218	266.14	1,852.2		61.93
3	267	445.15	2,528.7		66.40
4	273	100.47	558.0		66.95
5	292	180.21	934.9		68.71
6	305	282.16	1,403.0		69.81
7	332	491.96	2,244.2		72.02
8	467	21.75	70.6		81.31
9	10,380	75.00	10.9	Upper Marker	113.00

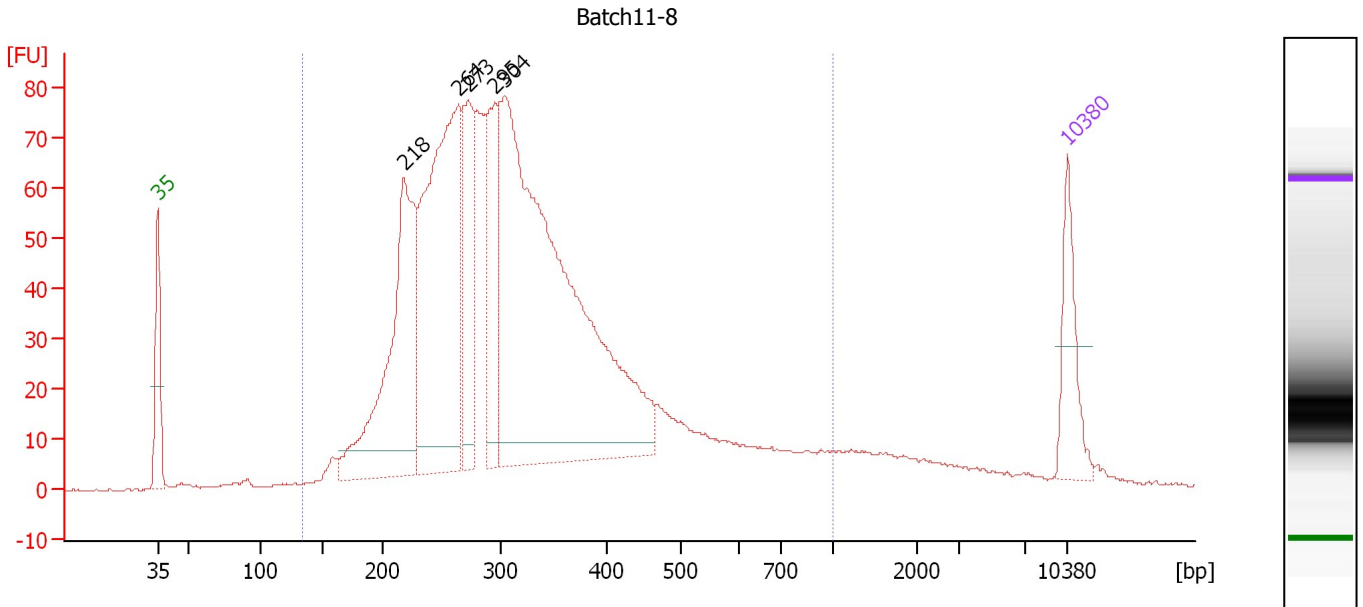
Region table for sample 5 : Batch11-7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
136	1,000	331	2,174.21	1,717.6	11,318.5	93	36.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Batch11-8

Number of peaks found: 5 Corr. Area 1: 1,834.8
 Noise: 0.2

Peak table for sample 6 : Batch11-8

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	218	471.78	3,280.9		61.95
3	264	622.30	3,567.5		66.18
4	273	192.30	1,068.1		66.95
5	295	190.01	976.4		68.97
6	304	1,141.49	5,693.0		69.74
7	10,380	75.00	10.9	Upper Marker	113.00

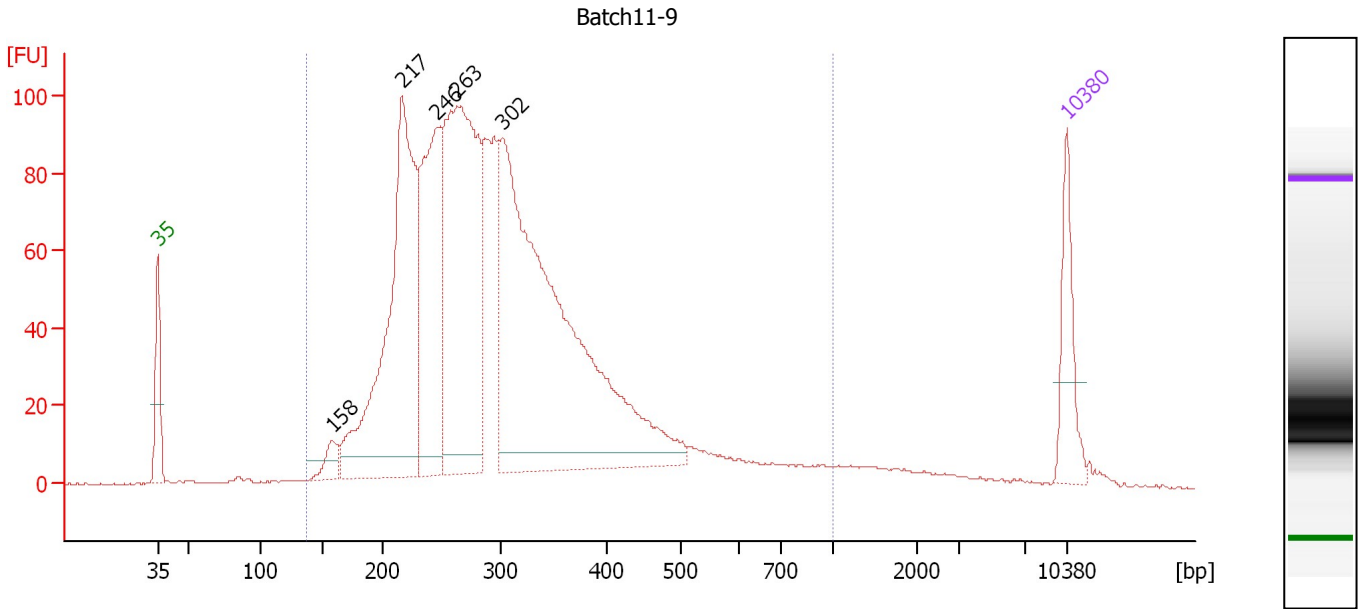
Region table for sample 6 : Batch11-8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
135	1,000	336	3,384.43	1,834.8	17,699.3	91	39.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Batch11-9

Number of peaks found: 5 Corr. Area 1: 2,152.6
 Noise: 0.2

Peak table for sample 7 : Batch11-9

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	158	37.88	362.3		56.41
3	217	658.86	4,609.2		61.83
4	246	363.57	2,239.3		64.51
5	263	666.00	3,832.4		66.09
6	302	1,039.43	5,222.7		69.56
7	10,380	75.00	10.9	Upper Marker	113.00

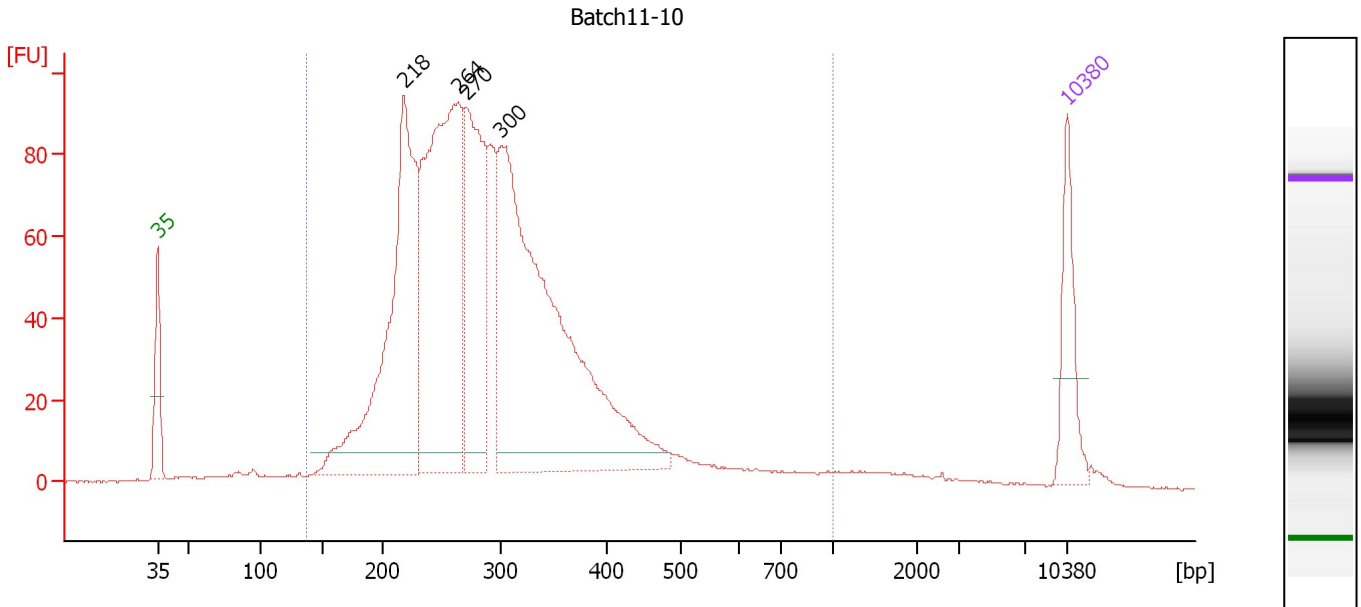
Region table for sample 7 : Batch11-9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
138	1,000	314	3,274.59	2,152.6	17,951.2	94	37.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Batch11-10

Number of peaks found: 4 Corr. Area 1: 1,916.1
 Noise: 0.2

Peak table for sample 8 : Batch11-10

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	218	581.04	4,037.9		61.96
3	264	637.22	3,659.3		66.14
4	270	339.17	1,901.2		66.73
5	300	864.08	4,359.8		69.46
6	10,380	75.00	10.9	Upper Marker	113.00

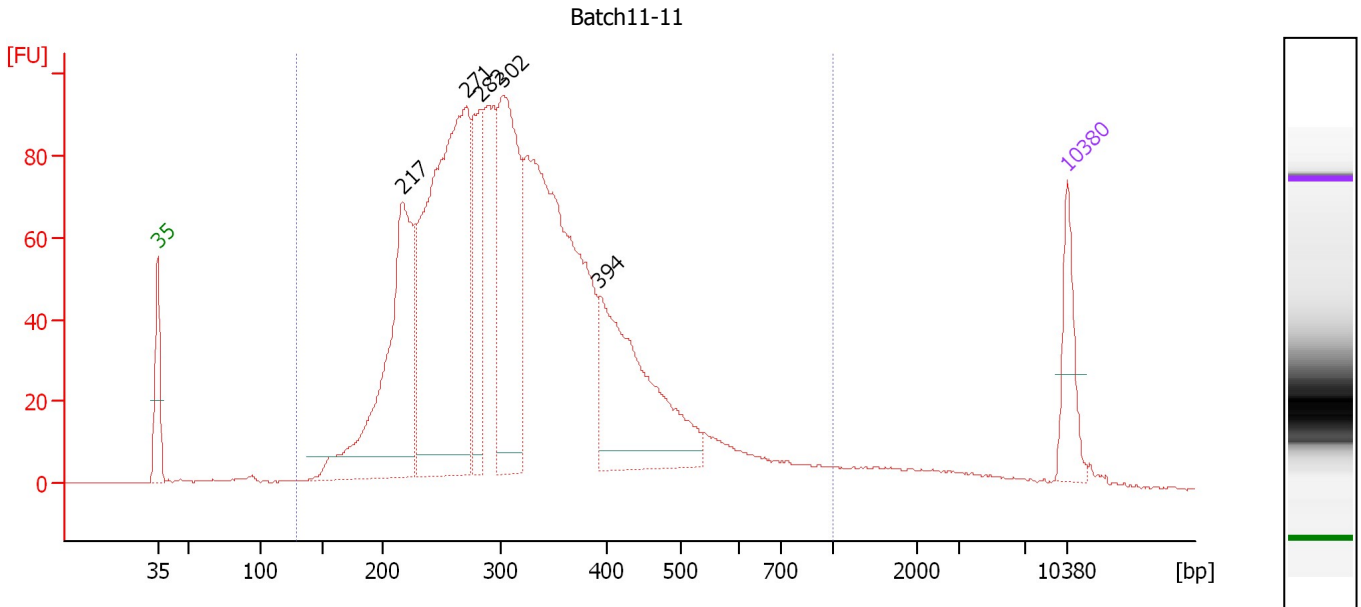
Region table for sample 8 : Batch11-10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
138	1,000	305	2,822.82	1,916.1	15,667.6	93	35.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Batch11-11

Number of peaks found: 5 Corr. Area 1: 2,227.3
 Noise: 0.2

Peak table for sample 9 : Batch11-11

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	217	553.93	3,874.8		61.83
3	271	923.56	5,168.3		66.77
4	282	208.05	1,117.6		67.80
5	302	449.27	2,254.6		69.59
6	394	391.78	1,506.0		77.02
7	10,380	75.00	10.9	Upper Marker	113.00

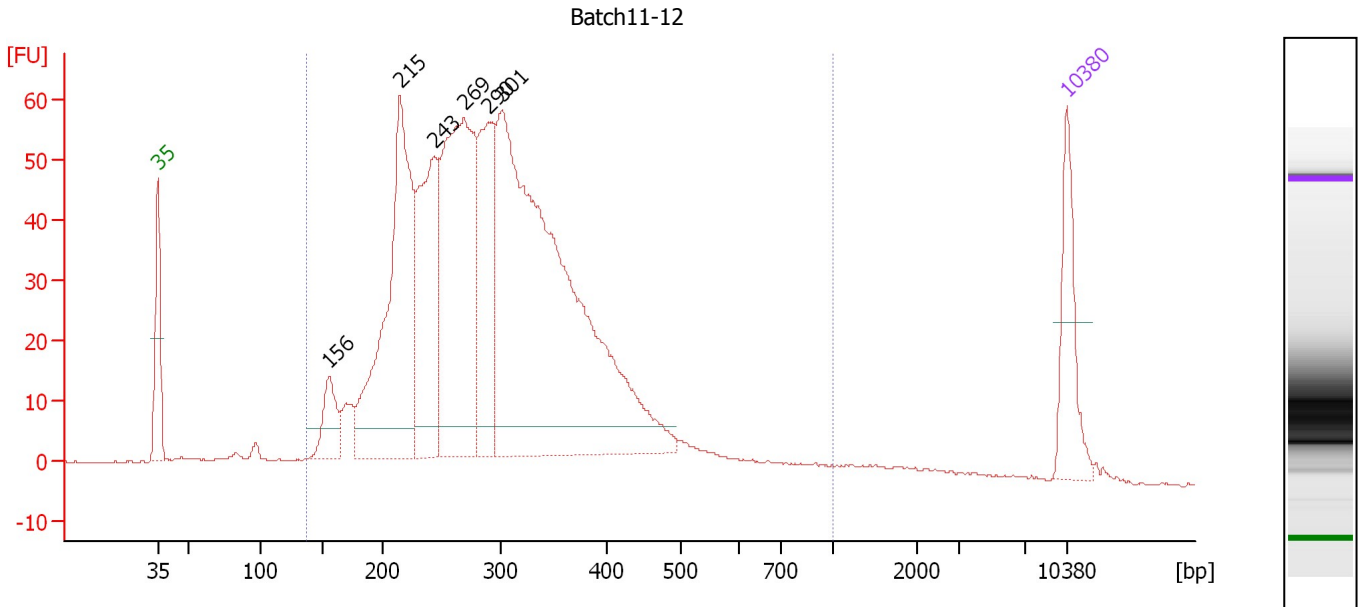
Region table for sample 9 : Batch11-11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
130	1,000	332	4,065.09	2,227.3	21,037.5	94	34.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Batch11-12

Number of peaks found: 6 Corr. Area 1: 1,356.3
 Noise: 0.2

Peak table for sample 10 : Batch11-12

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	156	68.52	665.6		56.18
3	215	464.19	3,277.1		61.65
4	243	259.66	1,616.3		64.27
5	269	461.75	2,604.7		66.57
6	290	202.71	1,060.6		68.48
7	301	986.84	4,965.7		69.52
8	10,380	75.00	10.9	Upper Marker	113.00

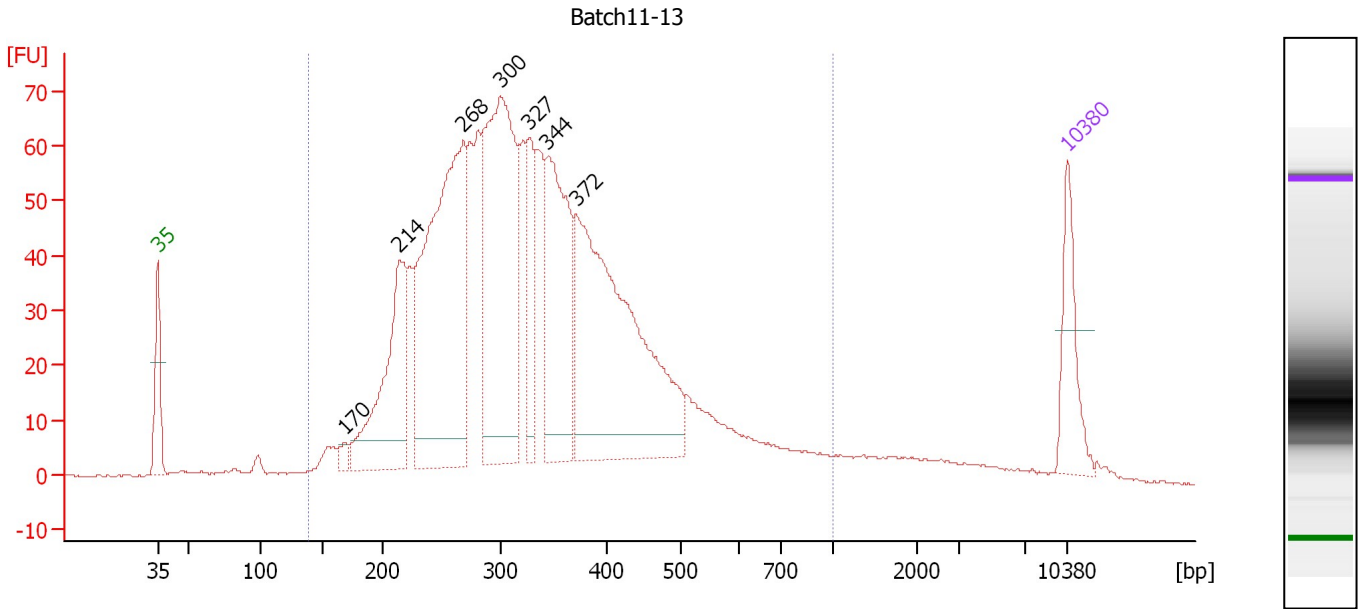
Region table for sample 10 : Batch11-12

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
137	1,000	308	2,708.26	1,356.3	15,015.3	94	34.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
 Modified: 10/22/2018 3:09:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Batch11-13

Number of peaks found: 7 Corr. Area 1: 1,639.4
 Noise: 0.2

Peak table for sample 11 : Batch11-13

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	170	15.54	138.9		57.45
3	214	277.74	1,964.9		61.61
4	268	615.19	3,475.1		66.54
5	300	514.71	2,601.3		69.42
6	327	114.11	528.3		71.63
7	344	286.94	1,262.2		73.02
8	372	560.54	2,283.5		75.23
9	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : Batch11-13

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
139	1,000	346	3,367.89	1,639.4	16,923.1	92	35.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-22\2018-10-22_001.xad

Created: 10/22/2018 2:25:28 PM
Modified: 10/22/2018 3:09:56 PM

Gel Image

