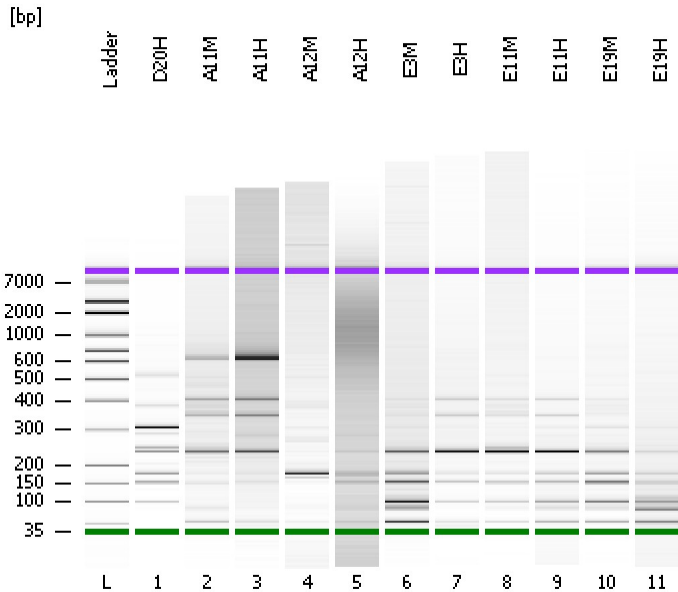


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
Modified: 8/2/2019 12:09:37 PM

Electrophoresis File Run Summary



Instrument Information:

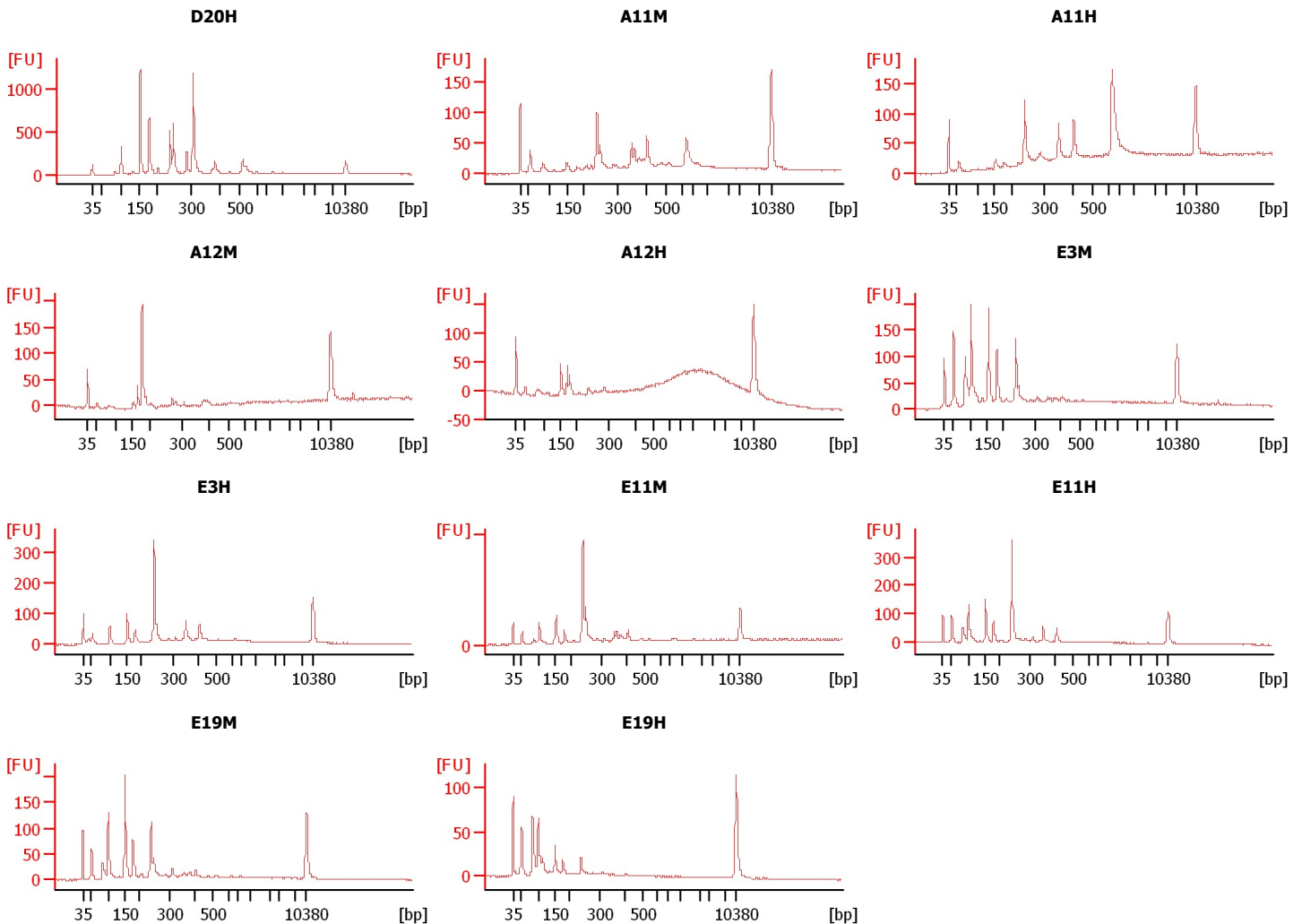
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
Modified: 8/2/2019 12:09:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
D20H		<input type="checkbox"/>	✓			
A11M		<input type="checkbox"/>	✓			
A11H		<input type="checkbox"/>	✓			
A12M		<input type="checkbox"/>	✓			
A12H		<input type="checkbox"/>	✓			
E3M		<input type="checkbox"/>	✓			
E3H		<input type="checkbox"/>	✓			
E11M		<input type="checkbox"/>	✓			
E11H		<input type="checkbox"/>	✓			
E19M		<input type="checkbox"/>	✓			
E19H		<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\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
Modified: 8/2/2019 12:09:37 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

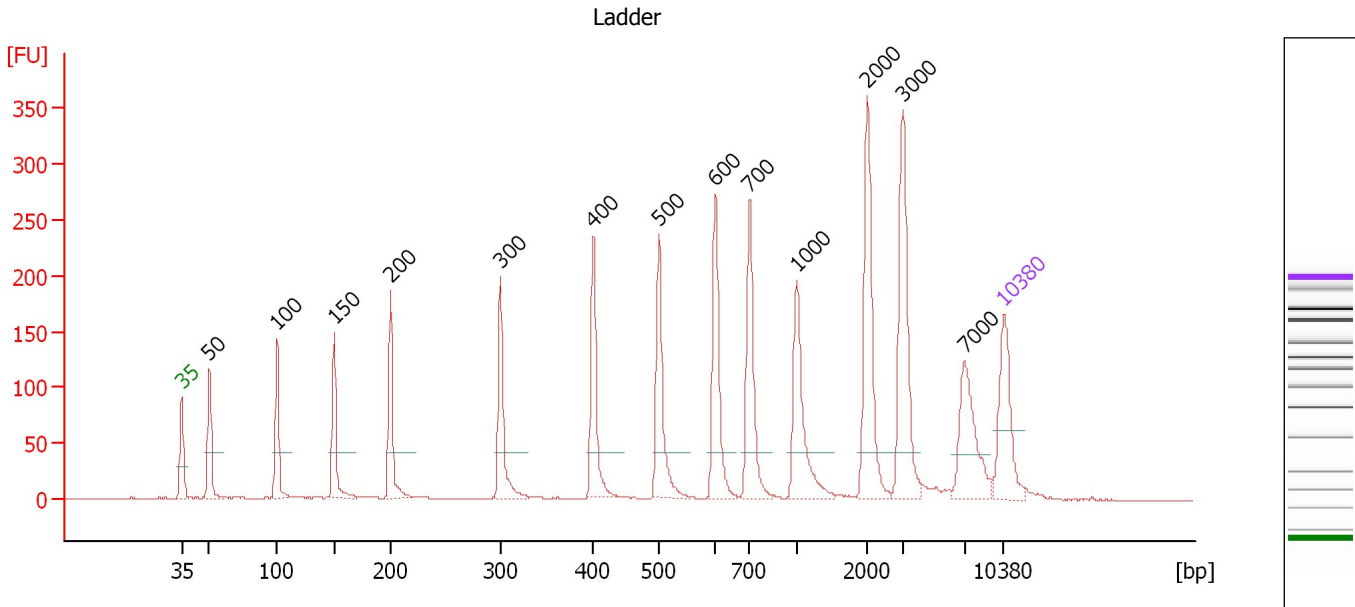
Ladder

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\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

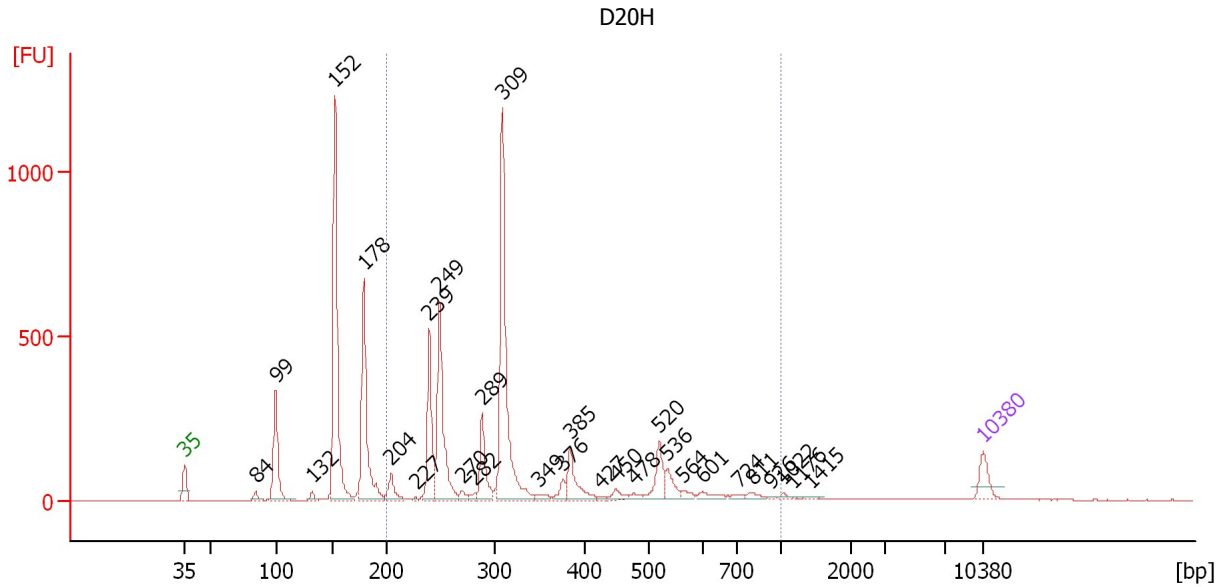
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.13
4	150	150.00	1,515.2	Ladder Peak	55.98
5	200	150.00	1,136.4	Ladder Peak	60.80
6	300	150.00	757.6	Ladder Peak	70.15
7	400	150.00	568.2	Ladder Peak	78.05
8	500	150.00	454.5	Ladder Peak	83.63
9	600	150.00	378.8	Ladder Peak	88.44
10	700	150.00	324.7	Ladder Peak	91.35
11	1,000	150.00	227.3	Ladder Peak	95.34
12	2,000	150.00	113.6	Ladder Peak	101.38
13	3,000	150.00	75.8	Ladder Peak	104.42
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\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : D20H

Number of peaks found: 29 Corr. Area 1: 3,269.1
 Noise: 0.3

Peak table for sample 1 : D20H

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	84	35.50	643.9		49.23
3	99	424.47	6,505.4		50.99
4	132	29.34	337.6		54.20
5	152	1,208.35	12,024.5		56.20
6	178	701.22	5,957.4		58.71
7	204	96.85	720.9		61.13
8	227	8.36	55.8		63.31
9	239	387.39	2,452.3		64.47
10	249	601.78	3,665.0		65.36
11	270	30.14	169.0		67.36
12	282	18.98	102.0		68.47
13	289	215.58	1,130.1		69.12
14	309	1,012.54	4,968.1		70.84
15	349	27.42	118.9		74.05
16	376	47.20	190.0		76.19
17	385	164.29	647.1		76.84
18	427	9.78	34.7		79.53
19	450	38.99	131.3		80.84
20	478	21.86	69.2		82.42
21	520	139.81	407.2		84.60
22	536	80.13	226.7		85.34
23	564	27.48	73.9		86.69
24	601	38.71	97.6		88.46
25	724	17.70	37.0		91.67

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : D20H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	811	24.10	45.0		92.83
27	926	3.95	6.5		94.36
28	1,022	11.98	17.7		95.48
29	1,176	2.13	2.7		96.41
30	1,415	8.99	9.6		97.85
31	10,380	75.00	10.9	Upper Marker	113.00

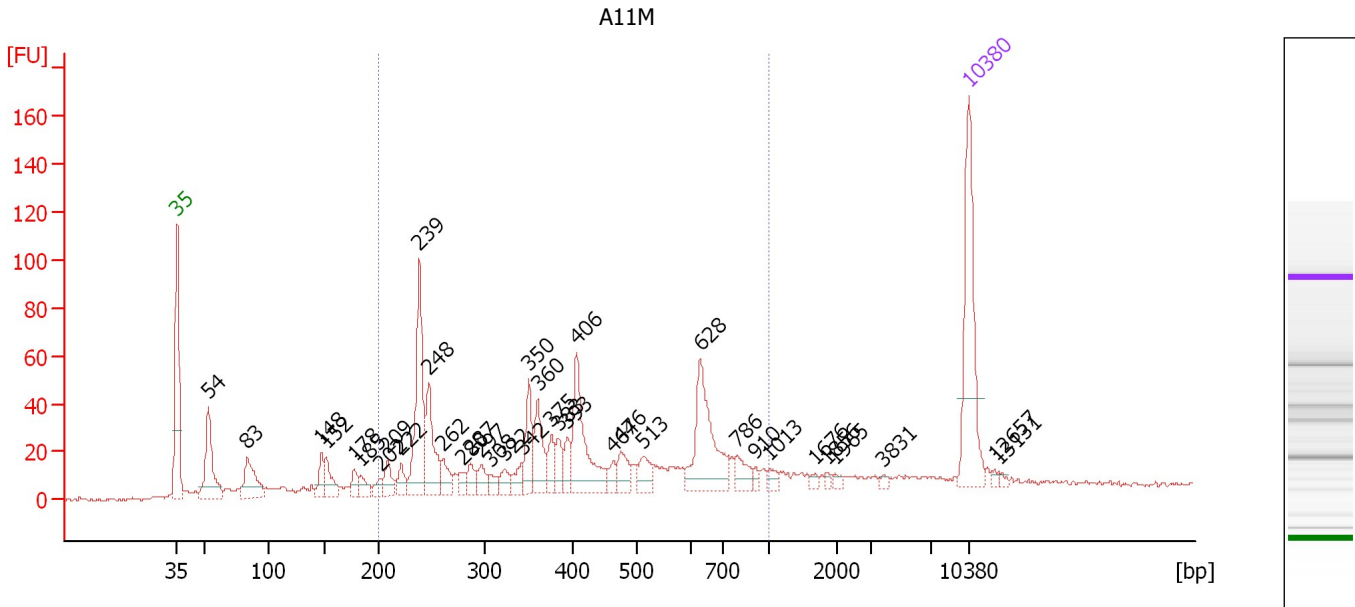
Region table for sample 1 : D20H

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	350	3,111.81	3,269.1	15,441.1	 60	37.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A11M

Number of peaks found: 37 Corr. Area 1: 781.8
 Noise: 0.5

Peak table for sample 2 : A11M

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	54	71.72	2,025.5		45.78
3	83	45.62	827.9		49.22
4	148	18.40	188.6		55.77
5	152	23.36	232.5		56.20
6	178	12.64	107.5		58.70
7	185	11.90	97.7		59.31
8	202	8.45	63.5		60.96
9	209	16.31	118.3		61.62
10	222	13.83	94.4		62.85
11	239	99.16	628.5		64.45
12	248	53.25	325.8		65.25
13	262	17.25	99.9		66.57
14	280	7.91	42.8		68.27
15	287	13.82	72.8		68.97
16	297	13.07	66.7		69.87
17	308	8.18	40.3		70.76
18	322	11.60	54.5		71.90
19	342	11.15	49.3		73.50
20	350	33.28	144.0		74.11
21	360	33.60	141.3		74.91
22	375	15.79	63.7		76.09
23	383	16.33	64.6		76.70
24	393	14.22	54.8		77.51
25	406	71.00	265.3		78.35

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : A11M

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	464	8.84	28.9		81.61
27	476	17.35	55.3		82.27
28	513	15.32	45.3		84.25
29	628	76.84	185.5		89.24
30	786	13.88	26.8		92.49
31	910	3.93	6.5		94.14
32	1,013	5.75	8.6		95.42
33	1,676	2.97	2.7		99.42
34	1,856	2.44	2.0		100.51
35	1,965	3.22	2.5		101.17
36	3,831	2.19	0.9		105.51
37	10,380	75.00	10.9	Upper Marker	113.00
38	12,657	0.00	0.0		115.26
39	13,131	0.00	0.0		115.73

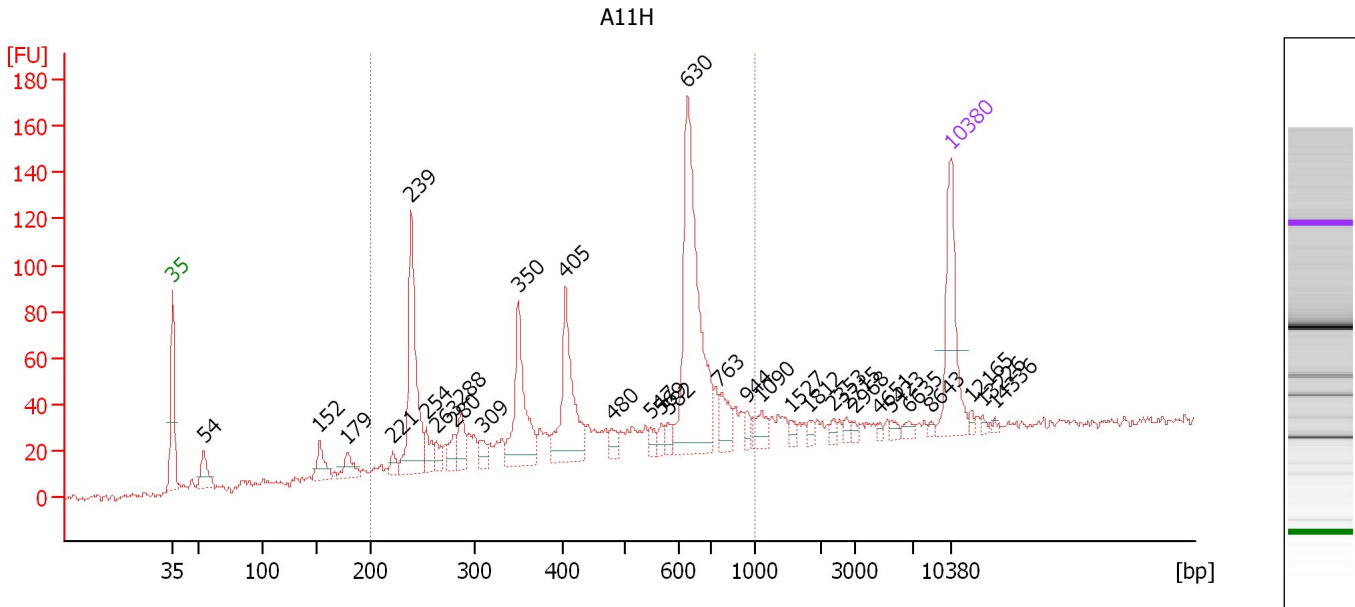
Region table for sample 2 : A11M

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	1,000	435	628.36	781.8	2,760.6	 70	41.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : A11H

Number of peaks found: 32 Corr. Area 1: 1,012.5
 Noise: 1.5

Peak table for sample 3 : A11H

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	54	34.72	980.5		45.78
3	152	32.18	320.6		56.18
4	179	23.77	201.8		58.73
5	221	12.12	82.9		62.80
6	239	161.66	1,025.3		64.43
7	254	22.03	131.5		65.82
8	263	13.81	79.4		66.73
9	280	17.98	97.1		68.32
10	288	29.81	157.1		68.99
11	309	14.13	69.3		70.86
12	350	105.35	456.5		74.07
13	405	111.32	416.3		78.34
14	480	11.80	37.3		82.51
15	547	9.41	26.0		85.91
16	569	9.37	24.9		86.97
17	582	8.46	22.0		87.59
18	630	237.76	571.7		89.32
19	763	25.30	50.2		92.19
20	944	8.47	13.6		94.59
21	1,090	16.07	22.3		95.88
22	1,527	5.75	5.7		98.52
23	1,812	4.99	4.2		100.25
24	2,353	4.55	2.9		102.45
25	2,715	4.82	2.7		103.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : A11H

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,968	3.59	1.8		104.32
27	4,651	2.92	1.0		106.58
28	5,423	4.70	1.3		107.58
29	6,635	5.54	1.3		109.16
30	8,643	2.59	0.5		111.27
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,165	0.00	0.0		114.77
33	13,226	0.00	0.0		115.83
34	14,336	0.00	0.0		116.93

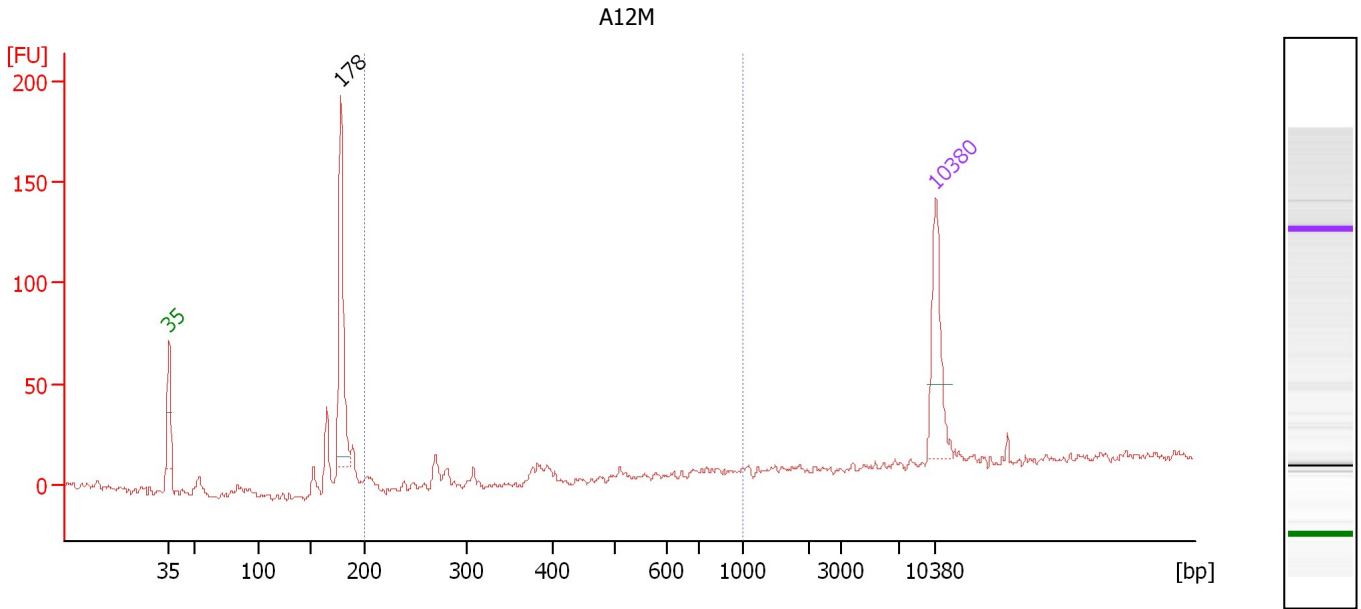
Region table for sample 3 : A11H

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	1,000	492	974.95	1,012.5	3,844.6	80	38.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : A12M

Number of peaks found: 1 Corr. Area 1: 15.4
 Noise: 2.1

Peak table for sample 4 : A12M

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	178	190.88	1,625.1		58.67
3	10,380	75.00	10.9	Upper Marker	113.00

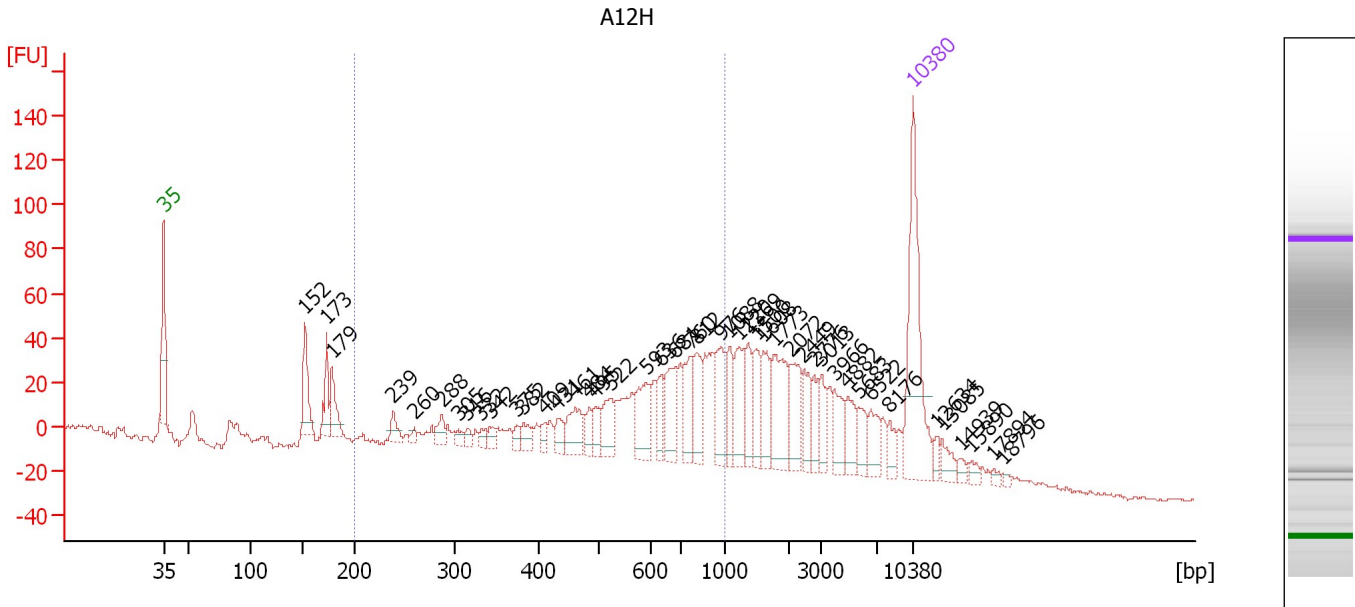
Region table for sample 4 : A12M

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	341	16.10	15.4	76.7	6	23.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : A12H

Number of peaks found: 45 Corr. Area 1: 901.0
 Noise: 0.9

Peak table for sample 5 : A12H

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	152	38.65	384.8		56.19
3	173	24.36	212.8		58.23
4	179	25.57	216.9		58.73
5	239	10.57	66.9		64.46
6	260	3.76	21.9		66.40
7	288	10.65	56.1		68.99
8	305	5.66	28.1		70.53
9	316	5.00	24.0		71.38
10	332	5.41	24.7		72.67
11	342	6.53	28.9		73.47
12	375	6.01	24.3		76.06
13	382	10.68	42.4		76.61
14	409	6.98	25.9		78.55
15	431	11.01	38.7		79.79
16	461	23.70	77.9		81.44
17	484	9.67	30.3		82.73
18	495	11.95	36.6		83.33
19	522	21.19	61.5		84.67
20	593	30.13	77.0		88.11
21	636	15.47	36.8		89.50
22	681	31.60	70.3		90.80
23	760	25.49	50.8		92.14
24	812	24.67	46.0		92.84
25	976	29.54	45.8		95.03

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : A12H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,088	17.57	24.5		95.87
27	1,220	28.33	35.2		96.67
28	1,369	17.45	19.3		97.57
29	1,500	20.47	20.7		98.36
30	1,608	22.05	20.8		99.01
31	1,773	39.16	33.5		100.01
32	2,072	26.41	19.3		101.60
33	2,449	16.50	10.2		102.74
34	2,776	11.94	6.5		103.74
35	3,013	13.35	6.7		104.44
36	3,966	16.82	6.4		105.68
37	4,882	14.88	4.6		106.88
38	5,683	13.25	3.5		107.92
39	6,522	13.66	3.2		109.02
40	8,176	7.56	1.4		110.81
41	10,380	75.00	10.9	Upper Marker	113.00
42	12,634	0.00	0.0		115.24
43	13,085	0.00	0.0		115.69
44	14,939	0.00	0.0		117.53
45	15,890	0.00	0.0		118.48
46	17,894	0.00	0.0		120.47
47	18,796	0.00	0.0		121.36

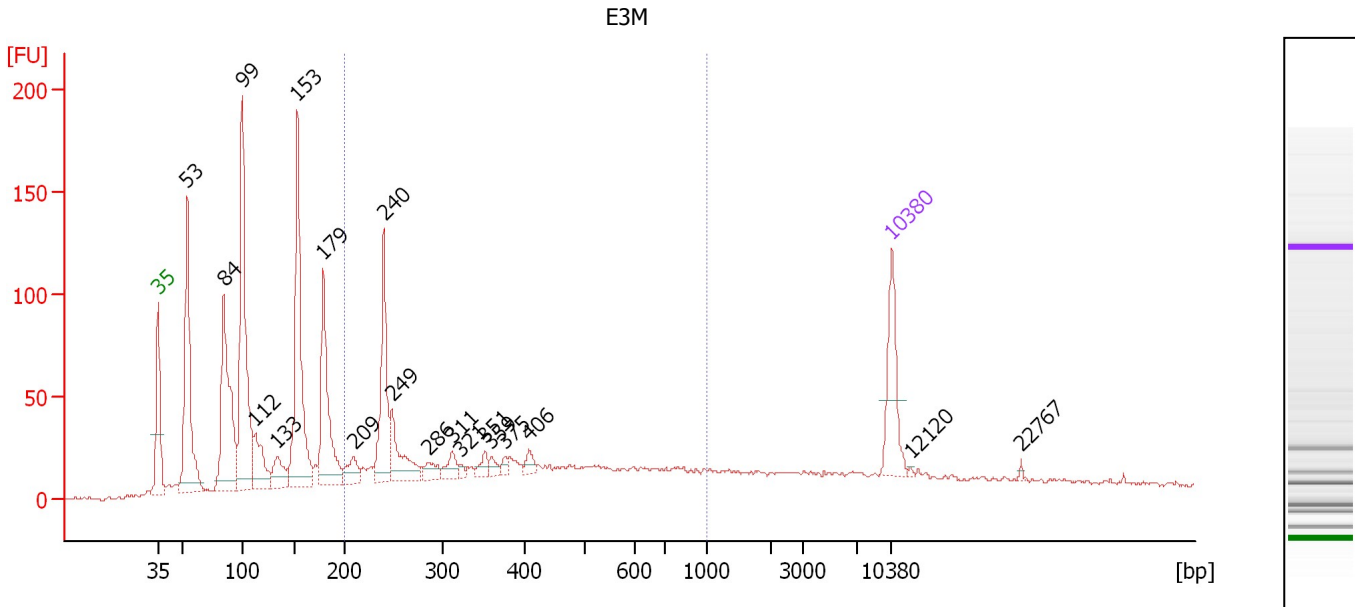
Region table for sample 5 : A12H

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	584	534.53	901.0	1,726.4	48	35.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : E3M

Number of peaks found: 19 Corr. Area 1: 757.0
 Noise: 0.8

Peak table for sample 6 : E3M

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	53	324.81	9,224.2		45.75
3	84	309.38	5,594.2		49.26
4	99	397.41	6,067.6		51.04
5	112	92.48	1,254.9		52.26
6	133	52.69	599.7		54.34
7	153	336.18	3,327.9		56.28
8	179	202.73	1,716.4		58.77
9	209	37.35	270.3		61.67
10	240	162.03	1,023.7		64.52
11	249	86.95	530.1		65.33
12	286	22.05	117.0		68.79
13	311	24.69	120.2		71.03
14	321	6.36	30.0		71.84
15	351	16.07	69.3		74.18
16	359	12.24	51.7		74.80
17	375	8.58	34.7		76.07
18	406	14.50	54.2		78.36
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,120	0.00	0.0		114.73
21	22,767	0.00	0.0		125.31

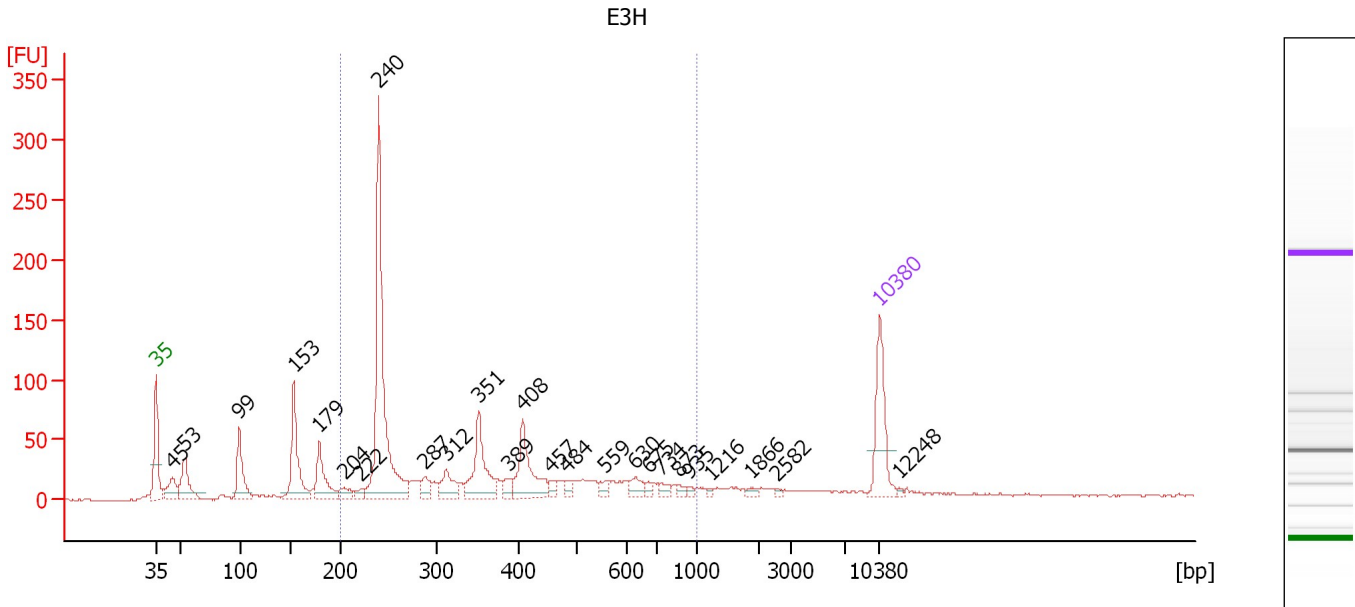
Region table for sample 6 : E3M

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	399	917.67	757.0	4,392.8	34	45.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : E3H

Number of peaks found: 25 Corr. Area 1: 1,022.7
 Noise: 0.6

Peak table for sample 7 : E3H

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	45	50.13	1,681.8		44.60
3	53	80.74	2,297.7		45.73
4	99	93.07	1,419.8		51.05
5	153	138.47	1,367.8		56.31
6	179	78.28	662.2		58.78
7	204	19.91	147.9		61.16
8	222	11.72	80.1		62.81
9	240	407.44	2,569.2		64.56
10	287	21.54	113.6		68.95
11	312	40.34	196.1		71.06
12	351	102.95	443.9		74.21
13	389	15.56	60.5		77.20
14	408	97.19	361.0		78.49
15	457	12.40	41.1		81.22
16	484	12.47	39.1		82.72
17	559	11.92	32.3		86.49
18	630	19.97	48.0		89.32
19	675	7.18	16.1		90.61
20	734	10.32	21.3		91.80
21	873	7.16	12.4		93.66
22	935	5.05	8.2		94.48
23	1,216	3.28	4.1		96.65
24	1,866	5.08	4.1		100.57
25	2,582	2.34	1.4		103.15


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...**... Peak table for sample 7 : E3H**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	12,248	0.00	0.0		114.86

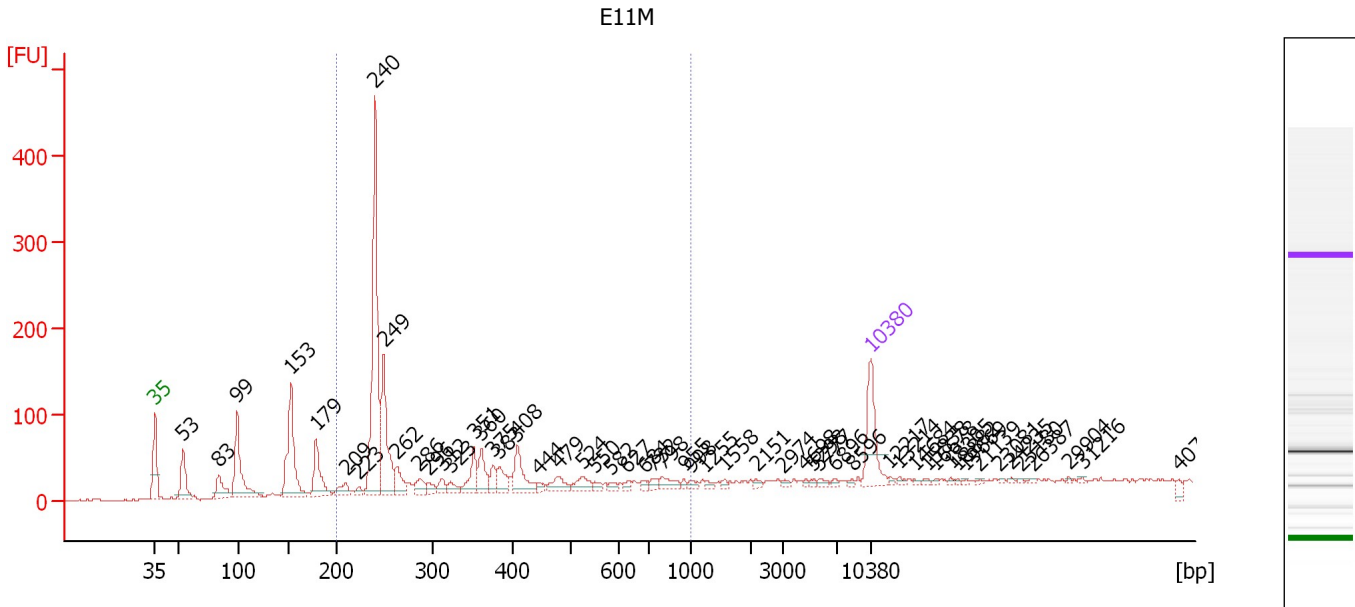
Region table for sample 7 : E3H

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	1,000	377	926.67	1,022.7	4,554.0	 66	42.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : E11M

Number of peaks found: 55 Corr. Area 1: 1,189.8
 Noise: 1.5

Peak table for sample 8 : E11M

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	53	84.36	2,409.4		45.71
3	83	54.46	989.8		49.21
4	99	164.37	2,510.8		51.03
5	153	191.01	1,887.8		56.30
6	179	86.71	734.9		58.75
7	209	27.00	195.4		61.67
8	223	9.82	66.8		62.93
9	240	411.95	2,599.9		64.54
10	249	168.77	1,027.0		65.38
11	262	40.15	231.9		66.63
12	286	25.24	133.5		68.87
13	296	13.77	70.5		69.76
14	312	18.38	89.4		71.06
15	323	16.73	78.5		71.95
16	351	46.77	201.7		74.19
17	360	44.79	188.3		74.92
18	375	22.37	90.4		76.07
19	383	33.91	134.2		76.70
20	408	60.25	224.0		78.47
21	444	8.37	28.6		80.50
22	479	27.84	88.1		82.43
23	524	25.27	73.1		84.78
24	550	7.69	21.2		86.03
25	582	7.38	19.2		87.60

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
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Electropherogram Summary Continued ...

... Peak table for sample 8 : E11M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	627	6.79	16.4		89.21
27	684	5.98	13.2		90.88
28	732	9.42	19.5		91.77
29	798	19.47	36.9		92.66
30	955	4.98	7.9		94.74
31	998	7.35	11.2		95.32
32	1,255	5.24	6.3		96.88
33	1,558	3.97	3.9		98.71
34	2,151	4.83	3.4		101.84
35	2,974	4.31	2.2		104.34
36	4,698	3.16	1.0		106.64
37	5,298	3.69	1.1		107.42
38	5,777	5.16	1.4		108.04
39	6,896	3.77	0.8		109.51
40	8,596	3.17	0.6		111.23
41	10,380	75.00	10.9	Upper Marker	113.00
42	12,217	0.00	0.0		114.83
43	13,214	0.00	0.0		115.82
44	14,684	0.00	0.0		117.28
45	15,838	0.00	0.0		118.42
46	16,678	0.00	0.0		119.26
47	18,305	0.00	0.0		120.88
48	18,882	0.00	0.0		121.45
49	19,669	0.00	0.0		122.23
50	21,139	0.00	0.0		123.69
51	23,081	0.00	0.0		125.62
52	24,235	0.00	0.0		126.77
53	25,180	0.00	0.0		127.71
54	26,387	0.00	0.0		128.91
55	29,904	0.00	0.0		132.40
56	31,216	0.00	0.0		133.71
57	40,715	0.00	0.0		143.15

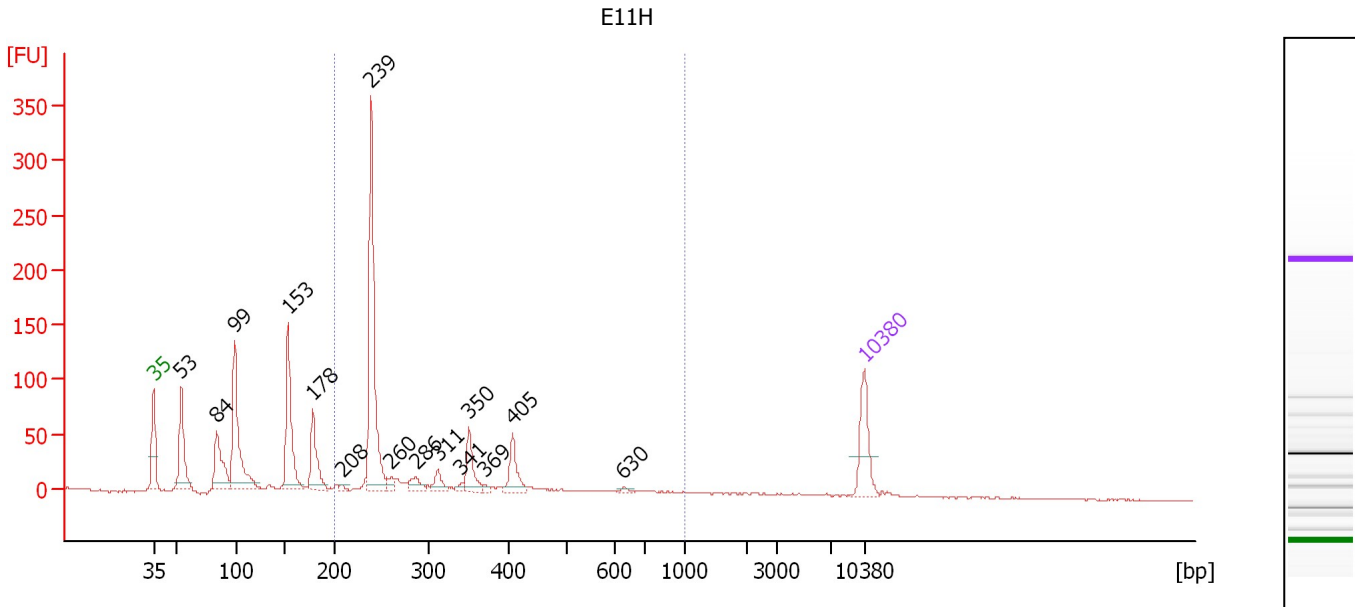
Region table for sample 8 : E11M

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	352	1,110.44	1,189.8	5,789.2	62	45.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : E11H

Number of peaks found: 15 Corr. Area 1: 689.3
 Noise: 0.6

Peak table for sample 9 : E11H

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	53	170.64	4,858.8		45.73
3	84	142.72	2,582.8		49.25
4	99	284.98	4,372.3		50.98
5	153	228.62	2,261.9		56.29
6	178	118.86	1,010.3		58.70
7	208	6.51	47.4		61.54
8	239	422.19	2,678.5		64.43
9	260	16.23	94.5		66.42
10	286	28.09	148.8		68.84
11	311	29.55	143.8		71.04
12	341	8.21	36.5		73.35
13	350	64.20	278.0		74.09
14	369	6.73	27.6		75.61
15	405	59.38	222.0		78.34
16	630	7.36	17.7		89.32
17	10,380	75.00	10.9	Upper Marker	113.00

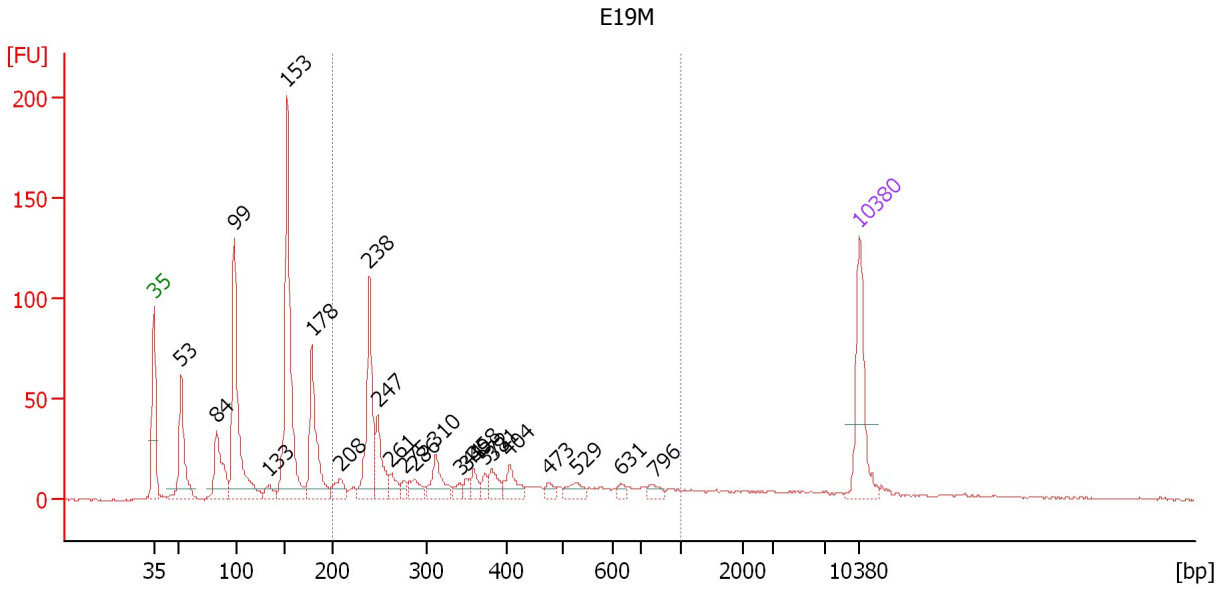
Region table for sample 9 : E11H

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	329	822.20	689.3	4,406.5	47	41.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : E19M

Number of peaks found: 23 Corr. Area 1: 478.7
 Noise: 0.4


Peak table for sample 10 : E19M

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	53	115.83	3,315.8		45.70
3	84	88.15	1,596.3		49.24
4	99	240.02	3,680.2		50.99
5	133	16.01	181.7		54.38
6	153	291.66	2,897.0		56.23
7	178	124.28	1,058.9		58.66
8	208	23.42	170.8		61.52
9	238	127.44	810.3		64.38
10	247	54.60	334.4		65.22
11	261	17.53	101.6		66.54
12	275	8.97	49.4		67.81
13	286	20.03	106.0		68.87
14	310	39.09	191.1		70.94
15	341	9.47	42.1		73.37
16	349	9.13	39.7		74.01
17	358	14.76	62.4		74.75
18	372	10.25	41.7		75.86
19	381	19.42	77.2		76.54
20	404	25.13	94.2		78.29
21	473	9.79	31.4		82.10
22	529	15.11	43.3		85.01
23	631	6.93	16.6		89.35
24	796	9.72	18.5		92.63
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
Modified: 8/2/2019 12:09:37 PM

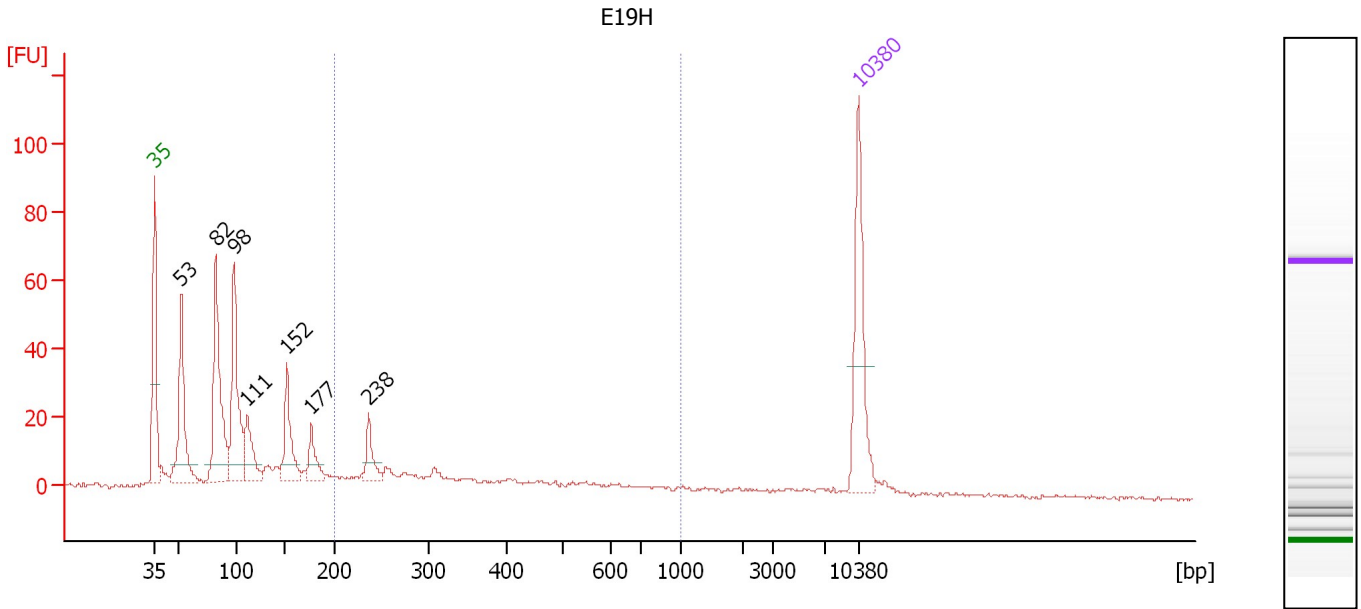
Electropherogram Summary Continued ...**... Region table for sample 10 : E19M**

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	1,000	377	492.75	478.7	2,449.9	 38	45.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : E19H

Number of peaks found: 7 Corr. Area 1: 163.6
 Noise: 0.5

Peak table for sample 11 : E19H

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	53	125.02	3,607.7		45.65
3	82	165.31	3,040.5		49.09
4	98	134.89	2,085.5		50.90
5	111	52.77	718.5		52.22
6	152	63.23	631.8		56.14
7	177	30.87	264.3		58.58
8	238	27.16	173.3		64.30
9	10,380	75.00	10.9	Upper Marker	113.00

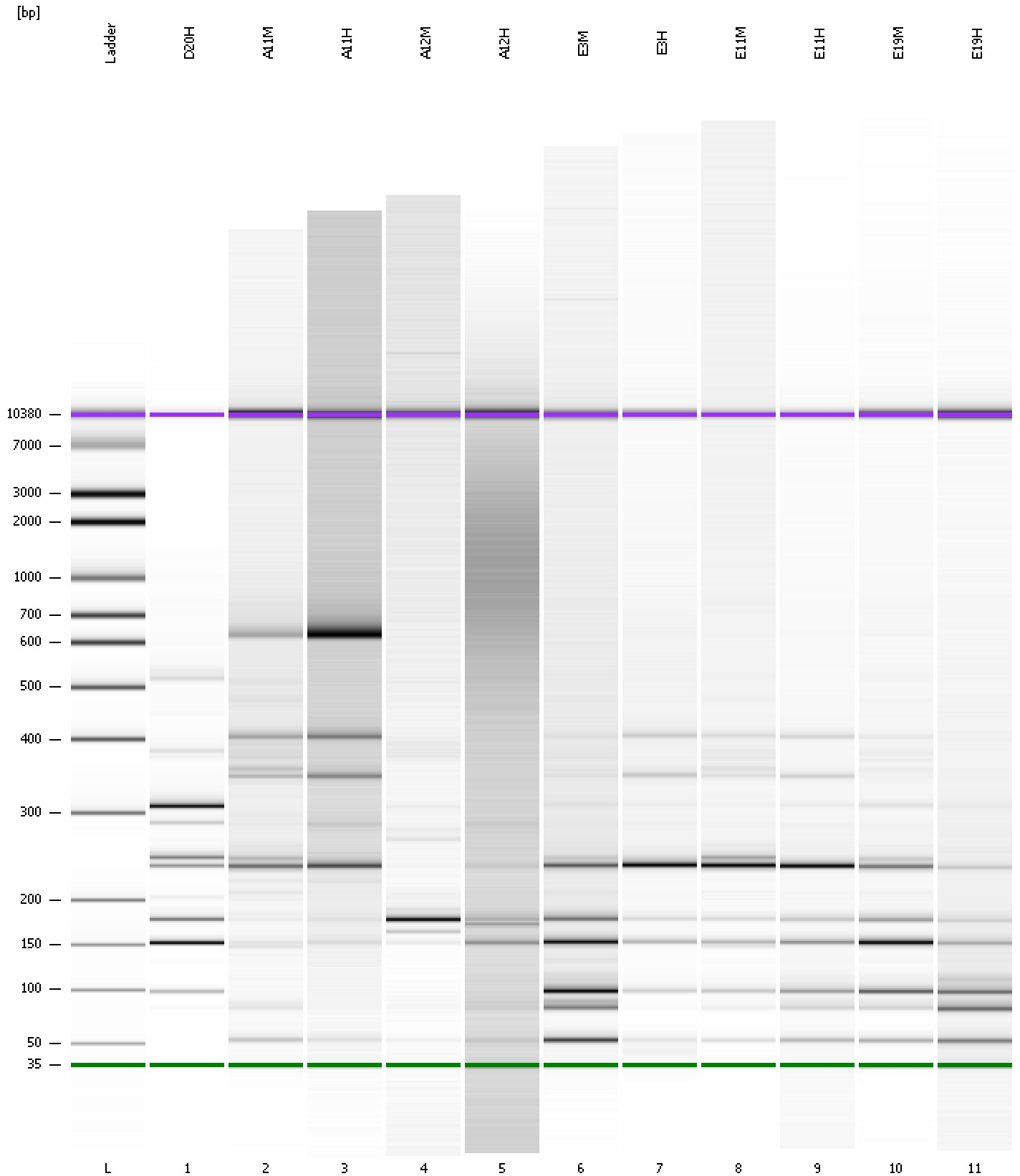
Region table for sample 11 : E19H

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	382	191.63	163.6	934.2	24	44.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
Modified: 8/2/2019 12:09:37 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad

Created: 8/2/2019 11:28:16 AM
 Modified: 8/2/2019 12:09:37 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/2/2019 12:09:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_002.xad)		Instrument	Run		8/2/2019 11:28:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/2/2019 11:28:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/2/2019 11:28:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/2/2019 11:28:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/2/2019 11:28:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/2/2019 11:28:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/2/2019 11:28:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1