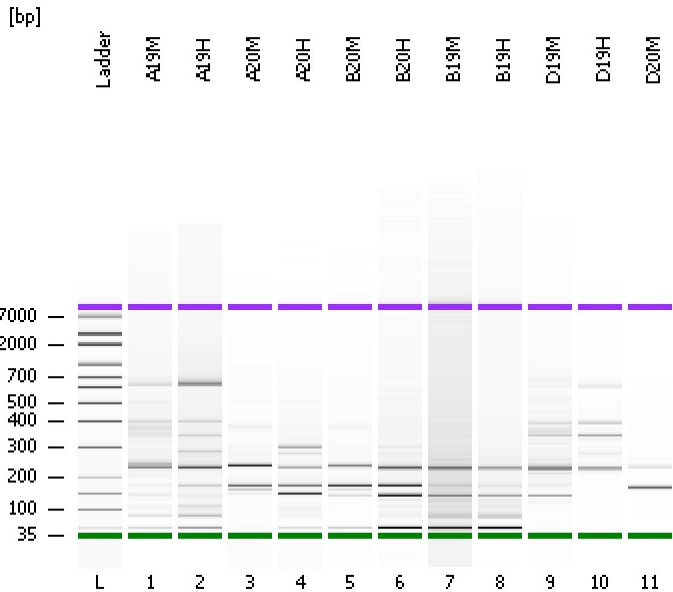


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
Modified: 7/26/2019 12:41:08 PM

Electrophoresis File Run Summary



Instrument Information:

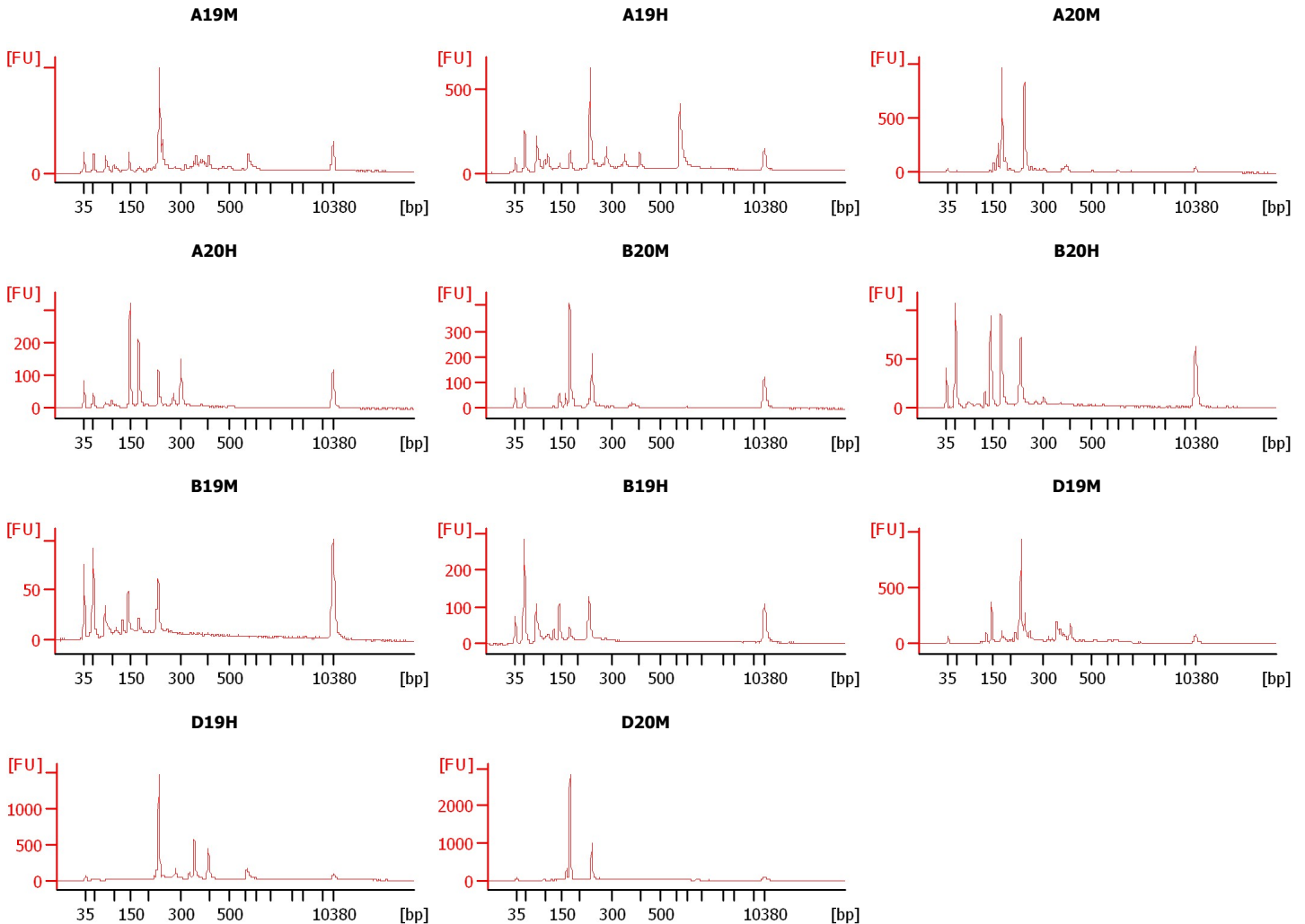
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
 Modified: 7/26/2019 12:41:08 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A19M		<input type="checkbox"/>	✓			
A19H		<input type="checkbox"/>	✓			
A20M		<input type="checkbox"/>	✓			
A20H		<input type="checkbox"/>	✓			
B20M		<input type="checkbox"/>	✓			
B20H		<input type="checkbox"/>	✓			
B19M		<input type="checkbox"/>	✓			
B19H		<input type="checkbox"/>	✓			
D19M		<input type="checkbox"/>	✓			
D19H		<input type="checkbox"/>	✓			
D20M		<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\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
Modified: 7/26/2019 12:41:08 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

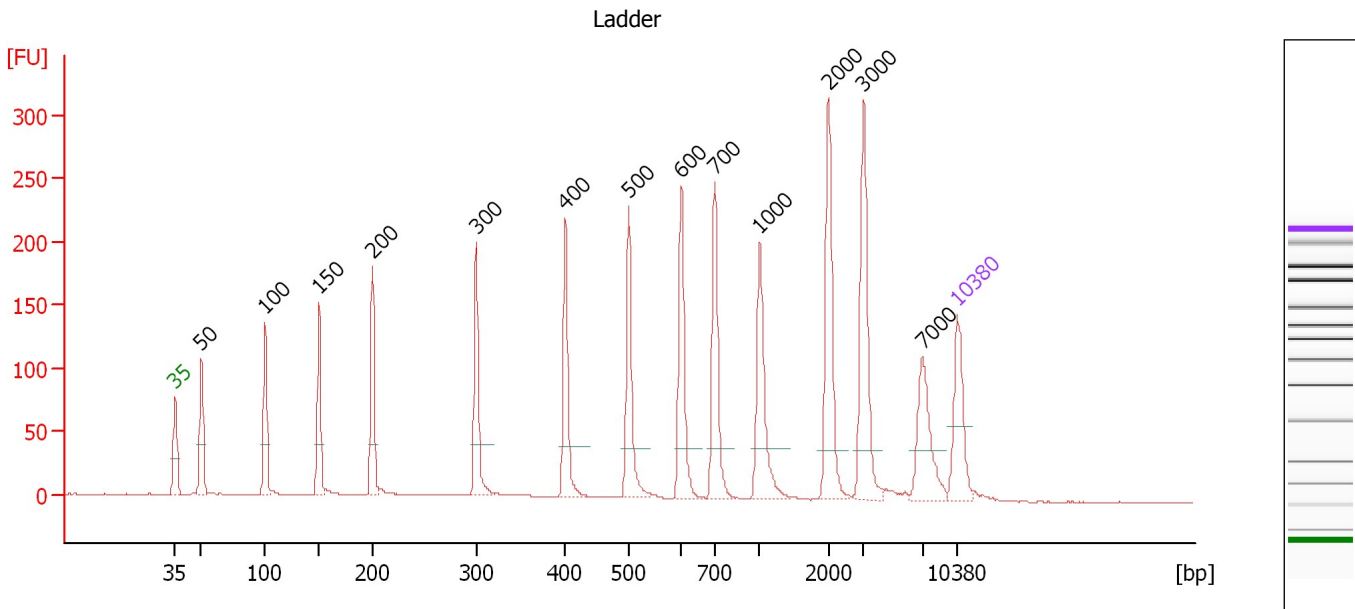
Ladder

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\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
 Modified: 7/26/2019 12:41:08 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

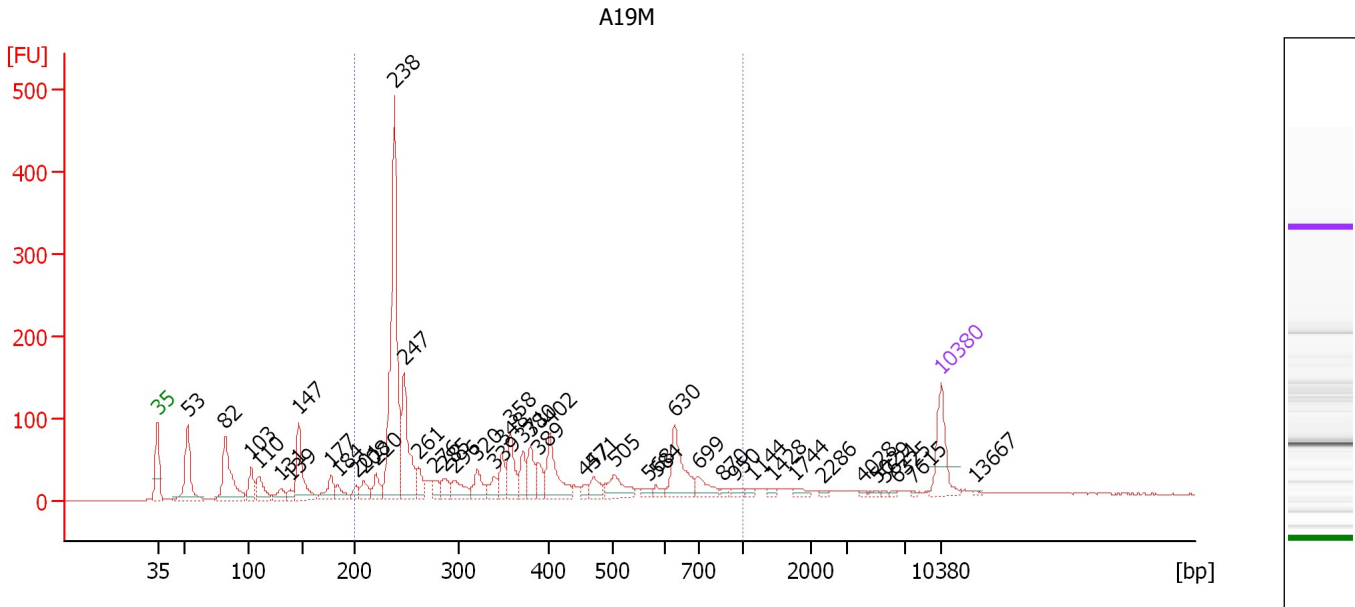
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.06
4	150	150.00	1,515.2	Ladder Peak	55.88
5	200	150.00	1,136.4	Ladder Peak	60.66
6	300	150.00	757.6	Ladder Peak	69.96
7	400	150.00	568.2	Ladder Peak	77.93
8	500	150.00	454.5	Ladder Peak	83.61
9	600	150.00	378.8	Ladder Peak	88.28
10	700	150.00	324.7	Ladder Peak	91.29
11	1,000	150.00	227.3	Ladder Peak	95.30
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.60
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : A19M

Number of peaks found: 45 Corr. Area 1: 1,664.4
 Noise: 0.2

Peak table for sample 1 : A19M

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	168.79	4,831.6		45.67
3	82	196.03	3,612.4		49.03
4	103	55.23	811.8		51.36
5	110	62.75	863.1		52.04
6	131	30.10	348.6		54.03
7	139	18.41	200.1		54.86
8	147	138.61	1,429.0		55.59
9	177	48.85	417.0		58.51
10	184	29.13	240.4		59.09
11	201	20.62	155.5		60.74
12	208	36.03	262.1		61.42
13	220	39.11	269.0		62.54
14	238	539.83	3,443.6		64.15
15	247	191.39	1,174.4		65.02
16	261	43.67	254.0		66.28
17	276	22.64	124.2		67.74
18	285	34.59	183.9		68.57
19	296	43.68	223.6		69.59
20	320	44.28	209.8		71.53
21	339	29.76	133.1		73.04
22	348	43.59	189.6		73.82
23	358	73.57	311.7		74.55
24	371	42.92	175.3		75.62
25	380	55.05	219.8		76.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
 Modified: 7/26/2019 12:41:08 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : A19M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	389	37.22	145.1		77.03
27	402	100.80	379.8		78.05
28	457	11.48	38.1		81.16
29	471	29.39	94.6		81.94
30	505	54.97	165.0		83.83
31	568	11.62	31.0		86.80
32	584	11.78	30.6		87.53
33	630	104.27	250.8		89.18
34	699	35.85	77.7		91.27
35	870	7.97	13.9		93.56
36	950	11.97	19.1		94.63
37	1,144	6.88	9.1		96.18
38	1,428	7.08	7.5		97.93
39	1,744	9.93	8.6		99.88
40	2,286	4.55	3.0		102.35
41	4,028	2.88	1.1		105.95
42	5,029	3.98	1.2		107.26
43	5,621	2.95	0.8		108.04
44	6,325	2.67	0.6		108.97
45	7,615	2.12	0.4		110.42
46	10,380	75.00	10.9	Upper Marker	113.00
47	13,667	0.00	0.0		116.06

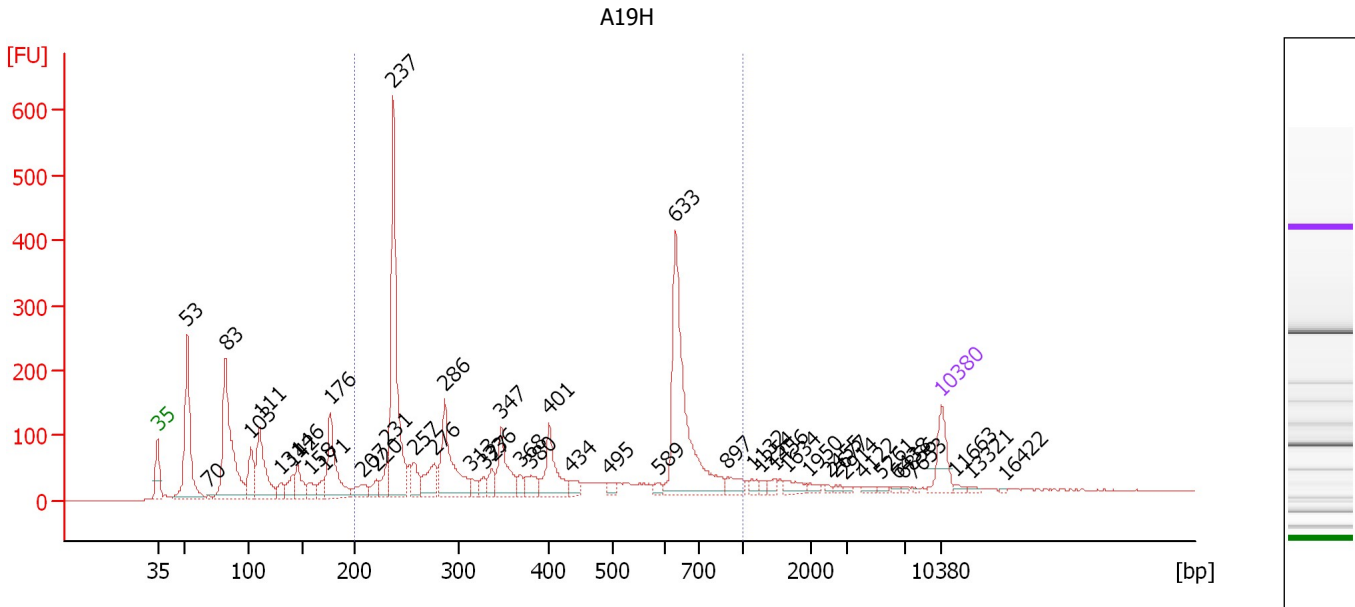
Region table for sample 1 : A19M

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	372	1,690.85	1,664.4	8,512.6	70	44.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : A19H

Number of peaks found: 46 Corr. Area 1: 2,420.1
 Noise: 0.8

Peak table for sample 2 : A19H

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	448.63	12,912.7		45.64
3	70	8.55	186.1		47.58
4	83	540.95	9,915.6		49.08
5	103	120.52	1,778.8		51.32
6	111	239.72	3,274.2		52.12
7	131	38.53	447.1		54.01
8	142	52.12	556.4		55.11
9	146	89.46	927.9		55.51
10	158	42.39	407.7		56.60
11	171	39.46	350.5		57.85
12	176	220.11	1,891.5		58.40
13	207	54.37	397.4		61.33
14	220	38.72	266.5		62.53
15	231	59.66	391.5		63.53
16	237	610.40	3,906.4		64.07
17	257	63.89	377.3		65.92
18	276	93.80	515.2		67.71
19	286	252.35	1,336.8		68.66
20	313	25.51	123.5		71.00
21	327	28.05	129.8		72.15
22	336	39.06	176.0		72.84
23	347	135.10	590.2		73.69
24	368	27.17	111.9		75.38
25	380	48.00	191.4		76.33

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...

... Peak table for sample 2 : A19H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	401	137.77	520.8		77.98
27	434	28.51	99.5		79.87
28	495	19.28	59.0		83.31
29	589	15.11	38.8		87.79
30	633	504.48	1,206.9		89.28
31	897	35.16	59.4		93.92
32	1,132	14.64	19.6		96.11
33	1,254	11.43	13.8		96.86
34	1,456	14.40	15.0		98.10
35	1,634	25.57	23.7		99.20
36	1,950	10.91	8.5		101.14
37	2,455	5.29	3.3		102.89
38	2,677	7.16	4.1		103.58
39	2,914	5.97	3.1		104.33
40	4,122	9.40	3.5		106.07
41	5,261	6.87	2.0		107.57
42	6,438	5.46	1.3		109.11
43	6,856	3.66	0.8		109.66
44	7,653	3.09	0.6		110.46
45	10,380	75.00	10.9	Upper Marker	113.00
46	11,663	0.00	0.0		114.20
47	13,321	0.00	0.0		115.74
48	16,422	0.00	0.0		118.63

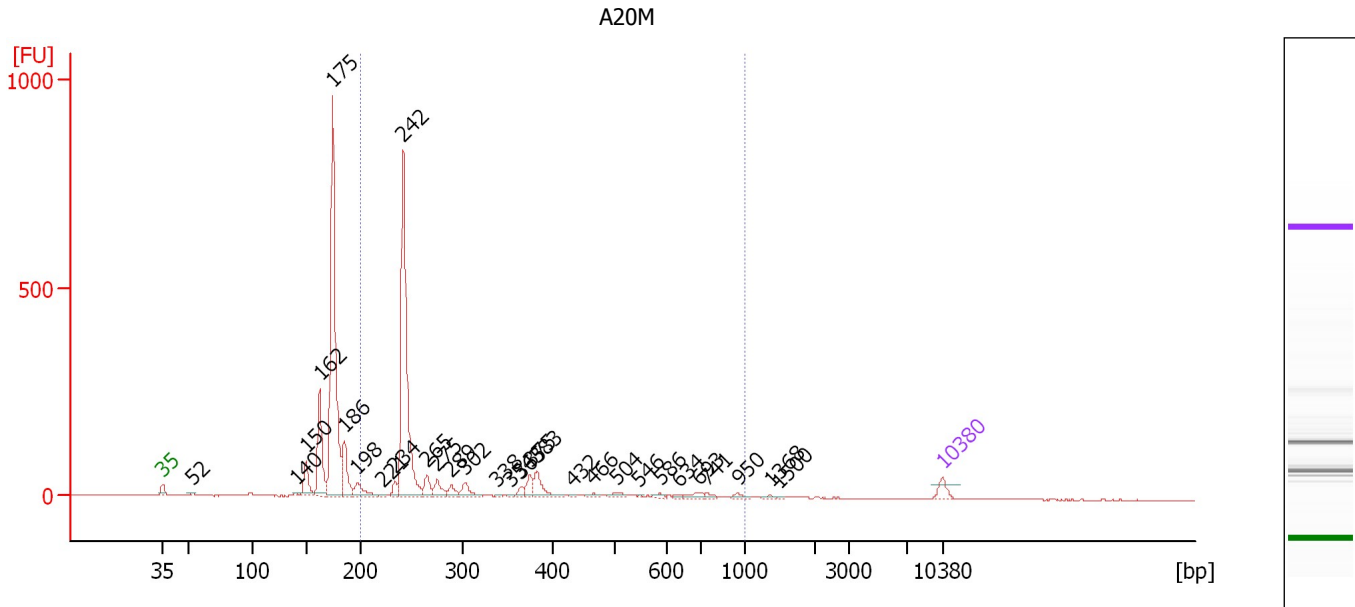
Region table for sample 2 : A19H

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	437	2,355.76	2,420.1	10,731.2	58	44.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : A20M

Number of peaks found: 30 Corr. Area 1: 1,280.7
 Noise: 0.9

Peak table for sample 3 : A20M

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	52	16.95	492.6		45.58
3	140	19.99	216.7		54.89
4	150	243.69	2,466.1		55.86
5	162	686.41	6,402.3		57.07
6	175	2,765.38	23,991.9		58.23
7	186	377.51	3,078.9		59.30
8	198	163.32	1,249.9		60.46
9	221	16.27	111.4		62.64
10	234	78.97	510.5		63.85
11	242	2,257.14	14,132.6		64.56
12	265	131.06	749.8		66.69
13	275	126.95	700.4		67.60
14	289	76.24	400.0		68.91
15	302	118.46	594.0		70.13
16	338	12.18	54.6		73.01
17	354	16.94	72.6		74.23
18	365	51.43	213.5		75.14
19	375	113.73	459.3		75.95
20	383	186.94	739.9		76.56
21	432	10.84	38.0		79.75
22	466	29.12	94.7		81.67
23	504	49.65	149.2		83.80
24	546	9.13	25.3		85.77
25	586	26.09	67.4		87.64

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
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Electropherogram Summary Continued ...

... Peak table for sample 3 : A20M

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	634	13.80	33.0		89.31
27	693	54.64	119.4		91.08
28	741	21.31	43.6		91.84
29	950	28.71	45.8		94.63
30	1,368	15.42	17.1		97.56
31	1,500	5.52	5.6		98.37
32	10,380	75.00	10.9	Upper Marker	113.00

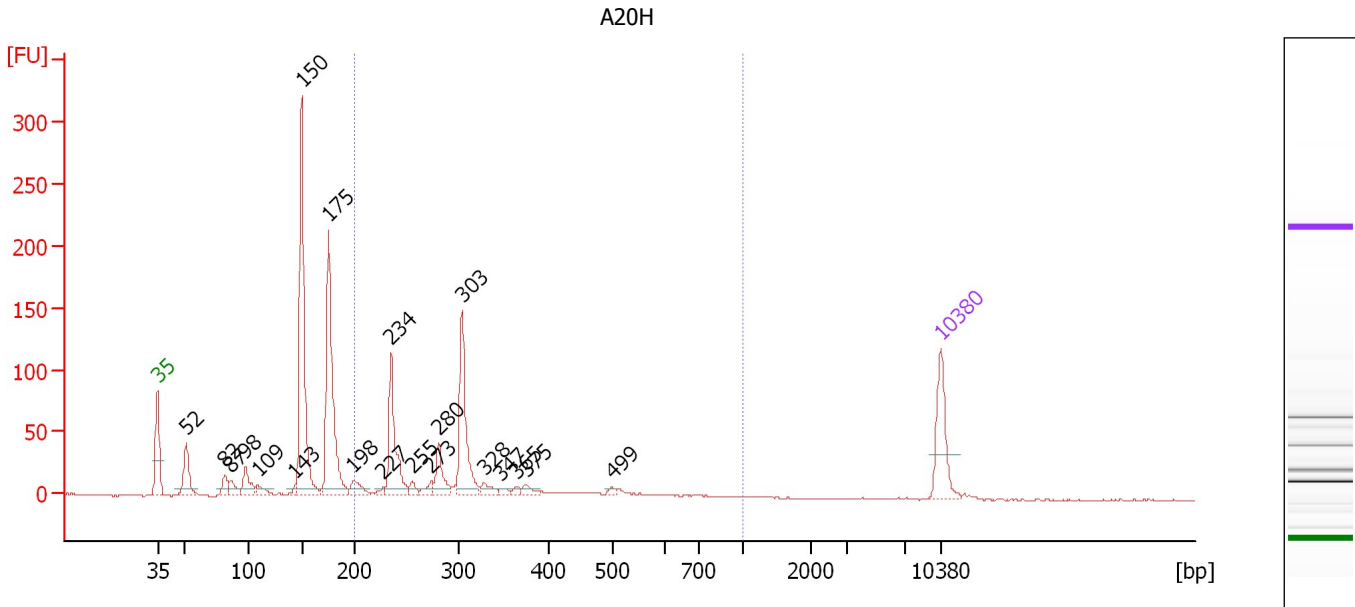
Region table for sample 3 : A20M

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	315	3,603.41	1,280.7	20,048.9	48	44.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
 Modified: 7/26/2019 12:41:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : A20H

Number of peaks found: 20 Corr. Area 1: 476.8
 Noise: 0.4

Peak table for sample 4 : A20H

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	52	80.70	2,361.0		45.54
3	82	30.05	557.3		48.97
4	87	24.33	423.1		49.59
5	98	49.41	763.9		50.84
6	109	21.98	304.2		51.98
7	143	7.52	79.4		55.25
8	150	424.74	4,294.6		55.87
9	175	330.00	2,850.6		58.31
10	198	31.29	239.1		60.49
11	227	8.17	54.5		63.19
12	234	152.90	988.1		63.86
13	255	13.86	82.5		65.73
14	273	16.74	93.0		67.44
15	280	53.91	291.5		68.11
16	303	166.25	831.6		70.19
17	328	18.08	83.6		72.16
18	347	7.77	33.9		73.72
19	365	7.97	33.1		75.12
20	375	13.71	55.4		75.95
21	499	6.39	19.4		83.58
22	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
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Electropherogram Summary Continued ...

... Region table for sample 4 :

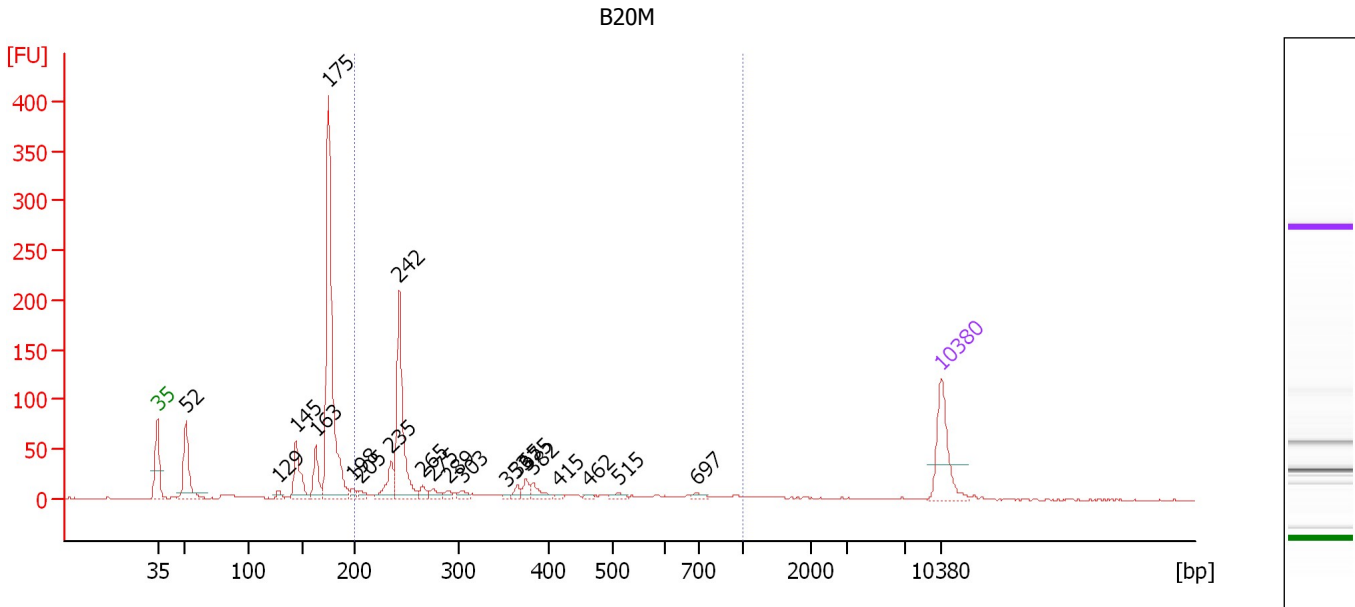
A20H

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	320	574.60	476.8	3,000.5	 41	34.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : B20M

Number of peaks found: 21 Corr. Area 1: 475.0
 Noise: 0.7

Peak table for sample 5 : B20M

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	52	124.69	3,639.4		45.56
3	129	9.96	117.4		53.81
4	145	84.87	889.6		55.36
5	163	56.89	529.1		57.12
6	175	478.86	4,141.0		58.29
7	198	11.41	87.5		60.42
8	205	10.08	74.6		61.11
9	235	47.52	306.8		63.88
10	242	210.00	1,314.1		64.58
11	265	13.89	79.4		66.71
12	275	14.54	80.2		67.61
13	289	9.35	49.0		68.94
14	303	11.84	59.1		70.22
15	353	4.74	20.3		74.22
16	365	10.78	44.8		75.12
17	375	15.00	60.6		75.92
18	382	20.11	79.7		76.51
19	415	3.71	13.5		78.80
20	462	4.55	14.9		81.46
21	515	8.54	25.2		84.29
22	697	7.69	16.7		91.21
23	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
Modified: 7/26/2019 12:41:08 PM

Electropherogram Summary Continued ...

... Region table for sample 5 :

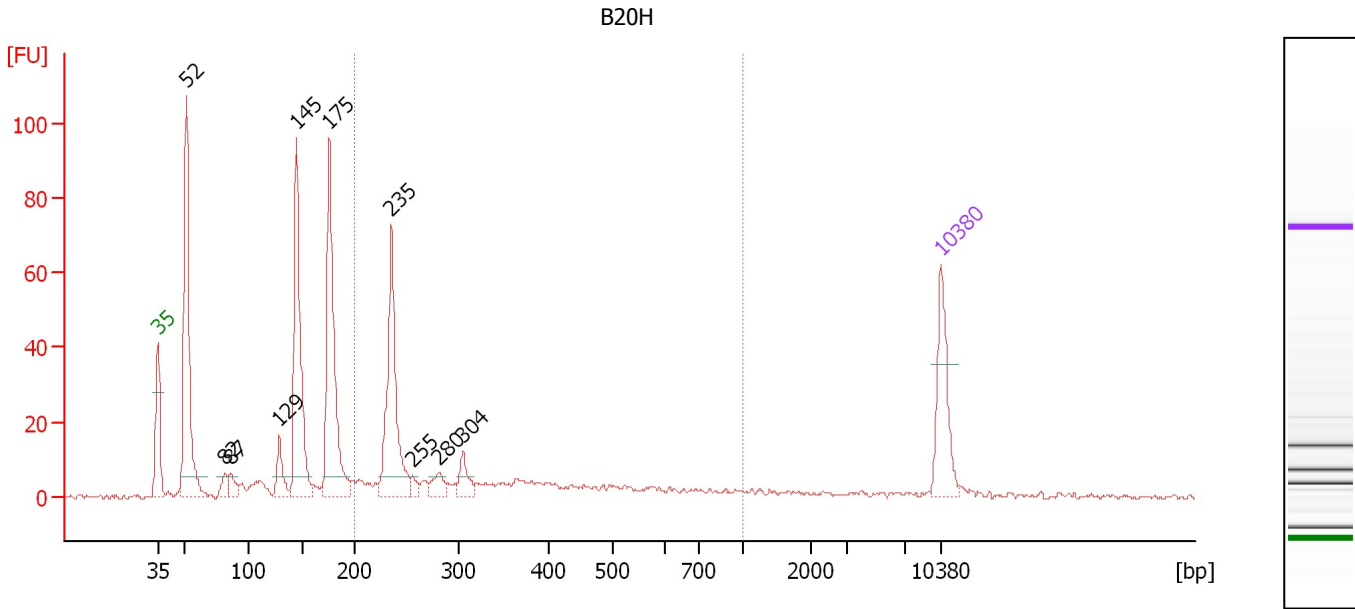
B20M

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	340	467.60	475.0	2,503.9	 39	45.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
 Modified: 7/26/2019 12:41:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : B20H

Number of peaks found: 10 Corr. Area 1: 224.9
 Noise: 0.5

Peak table for sample 6 : B20H

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	52	357.29	10,405.0		45.57
3	82	20.76	385.4		48.96
4	87	23.34	406.9		49.56
5	129	46.36	543.5		53.88
6	145	278.69	2,909.5		55.41
7	175	303.31	2,619.3		58.31
8	235	227.23	1,466.5		63.89
9	255	11.33	67.4		65.75
10	280	23.14	125.2		68.10
11	304	31.37	156.3		70.29
12	10,380	75.00	10.9	Upper Marker	113.00

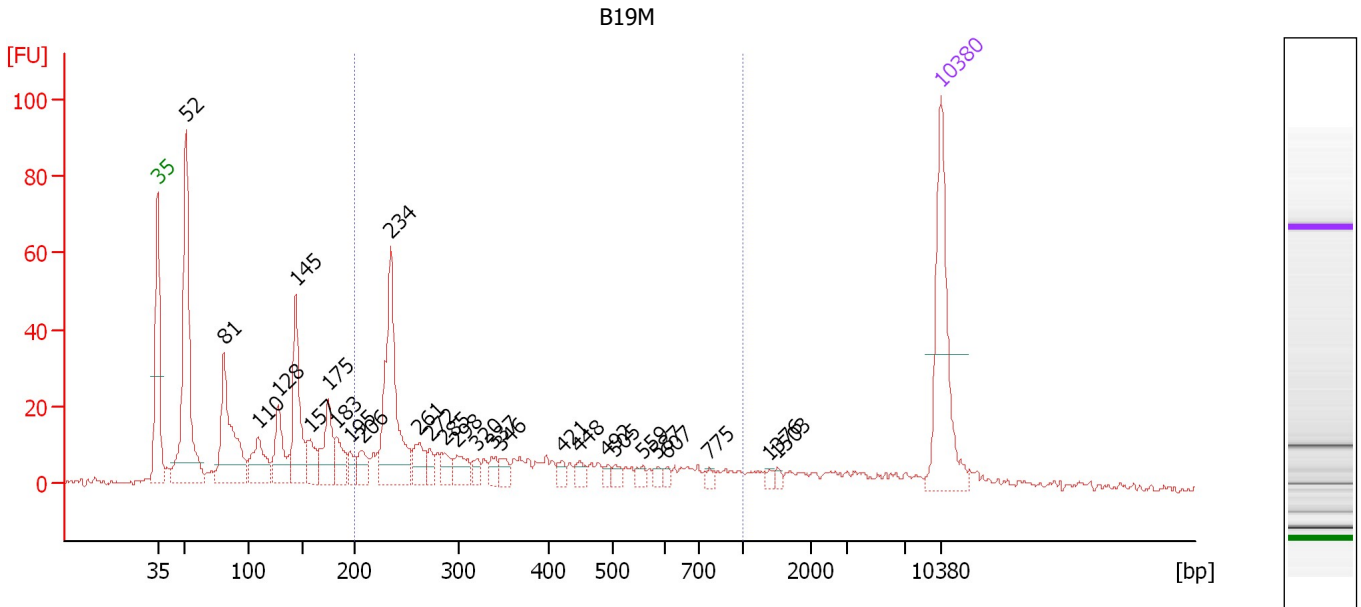
Region table for sample 6 : B20H

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	334	485.67	224.9	2,617.3	34	43.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : B19M

Number of peaks found: 28 Corr. Area 1: 353.1
 Noise: 0.7

Peak table for sample 7 : B19M

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	52	191.98	5,640.4		45.52
3	81	108.58	2,021.7		48.93
4	110	42.88	591.7		52.01
5	128	44.27	524.9		53.74
6	145	79.15	829.1		55.37
7	157	23.17	222.9		56.60
8	175	42.43	367.2		58.28
9	183	23.22	192.6		59.00
10	195	11.30	87.8		60.18
11	206	16.84	123.7		61.24
12	234	123.77	801.5		63.82
13	261	21.28	123.5		66.33
14	272	10.29	57.4		67.34
15	285	12.34	65.6		68.57
16	298	17.69	90.0		69.75
17	320	7.57	35.8		71.59
18	337	8.69	39.1		72.88
19	346	9.35	40.9		73.66
20	421	6.88	24.7		79.15
21	448	7.85	26.5		80.66
22	492	4.55	14.0		83.18
23	505	5.61	16.8		83.85
24	559	5.53	15.0		86.37
25	587	3.92	10.1		87.65

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad


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Electropherogram Summary Continued ...

... Peak table for sample 7 : B19M

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	607	3.54	8.8		88.49
27	775	3.37	6.6		92.30
28	1,376	2.67	2.9		97.61
29	1,503	3.02	3.0		98.40
30	10,380	75.00	10.9	Upper Marker	113.00

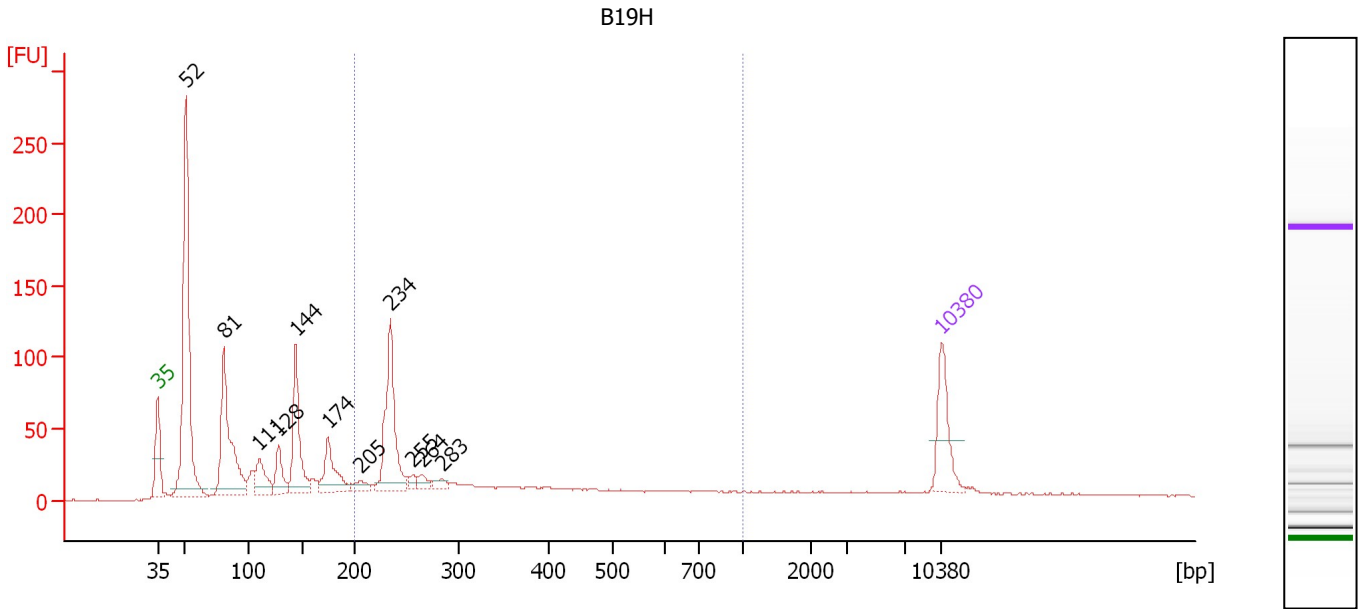
Region table for sample 7 : B19M

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	381	376.80	353.1	1,885.0	 40	46.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : B19H

Number of peaks found: 11 Corr. Area 1: 533.5
 Noise: 0.6

Peak table for sample 8 : B19H

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	52	558.57	16,415.4		45.52
3	81	303.19	5,669.9		48.89
4	111	69.89	956.8		52.09
5	128	63.49	748.7		53.81
6	144	169.05	1,772.7		55.35
7	174	98.34	854.3		58.21
8	205	21.27	157.2		61.13
9	234	213.62	1,383.3		63.82
10	255	13.00	77.3		65.76
11	264	17.29	99.2		66.62
12	283	13.62	72.9		68.39
13	10,380	75.00	10.9	Upper Marker	113.00

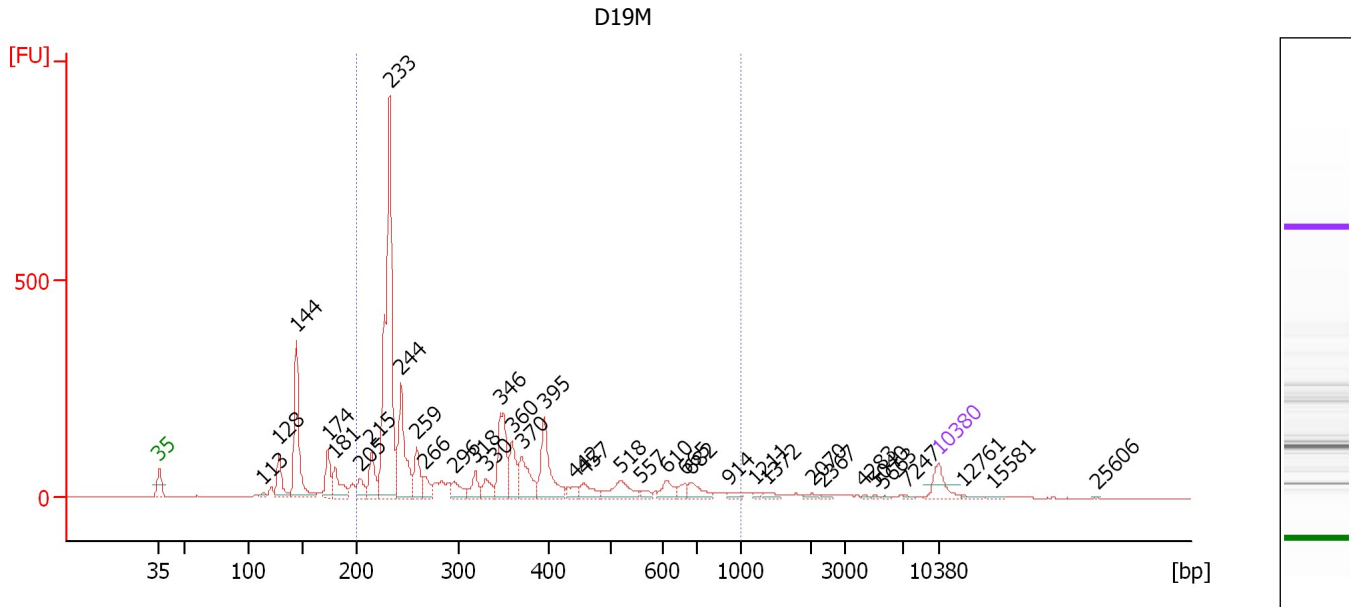
Region table for sample 8 : B19H

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	355	638.93	533.5	3,356.6	32	47.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : D19M

Number of peaks found: 37 Corr. Area 1: 2,871.1
 Noise: 0.8

Peak table for sample 9 : D19M

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	113	21.03	281.4		52.34
3	128	154.11	1,818.7		53.80
4	144	535.55	5,629.5		55.32
5	174	142.45	1,240.0		58.18
6	181	131.16	1,099.2		58.82
7	205	70.53	521.9		61.10
8	215	150.48	1,061.5		62.03
9	233	1,255.76	8,166.0		63.73
10	244	408.74	2,541.6		64.72
11	259	135.15	791.5		66.12
12	266	65.02	370.0		66.82
13	296	66.96	343.0		69.56
14	318	82.40	392.9		71.37
15	330	69.44	318.6		72.37
16	346	281.39	1,231.1		73.65
17	360	131.68	555.0		74.70
18	370	172.03	703.5		75.58
19	395	248.30	951.5		77.56
20	442	39.59	135.7		80.31
21	457	67.89	224.9		81.18
22	518	112.40	328.7		84.45
23	557	21.28	57.9		86.26
24	610	59.74	148.3		88.60
25	665	33.91	77.3		90.23

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...

... Peak table for sample 9 : D19M

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	682	62.82	139.5		90.76
27	914	19.98	33.1		94.14
28	1,211	9.64	12.1		96.59
29	1,372	18.68	20.6		97.59
30	2,070	13.59	9.9		101.67
31	2,367	8.87	5.7		102.61
32	4,283	4.89	1.7		106.29
33	5,040	4.49	1.4		107.28
34	5,663	5.68	1.5		108.10
35	7,247	6.45	1.3		110.08
36	10,380	75.00	10.9	Upper Marker	113.00
37	12,761	0.00	0.0		115.22
38	15,581	0.00	0.0		117.85
39	25,606	0.00	0.0		127.19

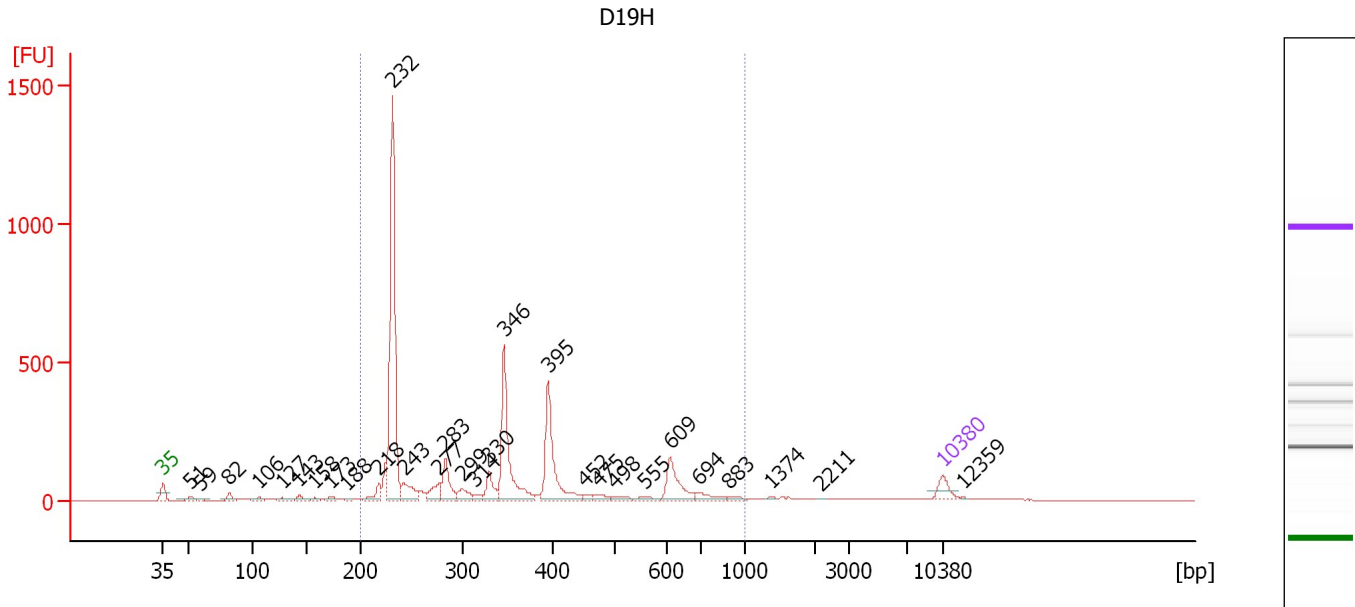
Region table for sample 9 : D19M

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	342	3,734.79	2,871.1	19,770.2	75	42.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : D19H

Number of peaks found: 29 Corr. Area 1: 3,232.9
 Noise: 0.4

Peak table for sample 10 : D19H

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	51	37.33	1,100.4		45.50
3	59	15.48	396.2		46.39
4	82	46.59	865.9		48.95
5	106	27.27	390.5		51.62
6	127	24.98	298.5		53.65
7	143	35.97	379.9		55.25
8	158	16.89	161.6		56.68
9	173	25.22	220.5		58.11
10	188	15.45	124.8		59.47
11	218	88.01	611.7		62.33
12	232	1,692.24	11,049.3		63.64
13	243	164.92	1,028.6		64.65
14	277	106.66	583.8		67.80
15	283	223.42	1,198.1		68.34
16	299	84.12	426.0		69.88
17	314	36.41	175.7		71.07
18	330	130.57	600.2		72.32
19	346	692.94	3,034.0		73.63
20	395	550.28	2,109.2		77.55
21	452	24.70	82.8		80.88
22	475	38.20	121.8		82.19
23	498	29.32	89.2		83.50
24	555	24.81	67.7		86.18
25	609	228.61	568.7		88.56

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...

... Peak table for sample 10 : D19H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	694	59.25	129.3		91.11
27	883	16.93	29.1		93.73
28	1,374	7.67	8.5		97.60
29	2,211	3.66	2.5		102.12
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,359	0.00	0.0		114.84

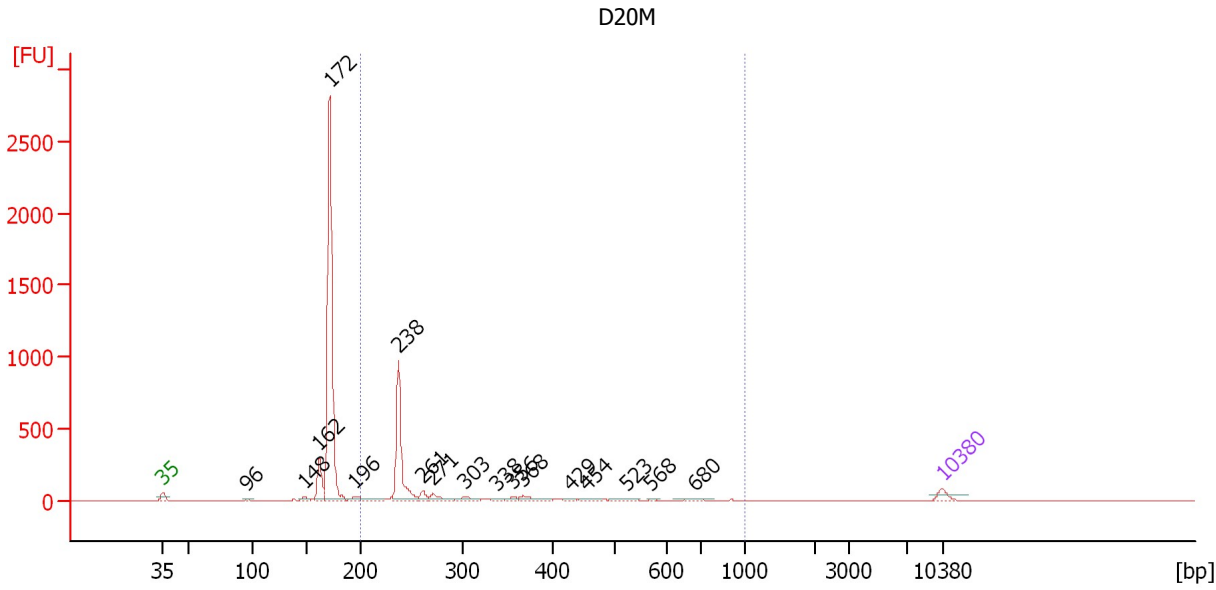
Region table for sample 10 : D19H

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	349	4,519.25	3,232.9	23,320.1	89	40.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : D20M

Number of peaks found: 17 Corr. Area 1: 1,259.4
 Noise: 0.2

Peak table for sample 11 : D20M

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	96	9.34	148.0		50.56
3	148	40.11	412.0		55.64
4	162	409.01	3,823.5		57.04
5	172	3,861.76	33,974.1		58.00
6	196	117.75	911.8		60.24
7	238	1,188.16	7,569.3		64.18
8	261	88.46	514.3		66.29
9	271	102.57	573.5		67.26
10	303	64.68	323.9		70.17
11	338	15.48	69.5		72.95
12	356	30.66	130.3		74.46
13	368	75.02	309.0		75.37
14	429	9.60	33.9		79.60
15	454	17.50	58.4		80.99
16	523	24.09	69.8		84.69
17	568	7.27	19.4		86.80
18	680	20.63	46.0		90.68
19	10,380	75.00	10.9	Upper Marker	113.00

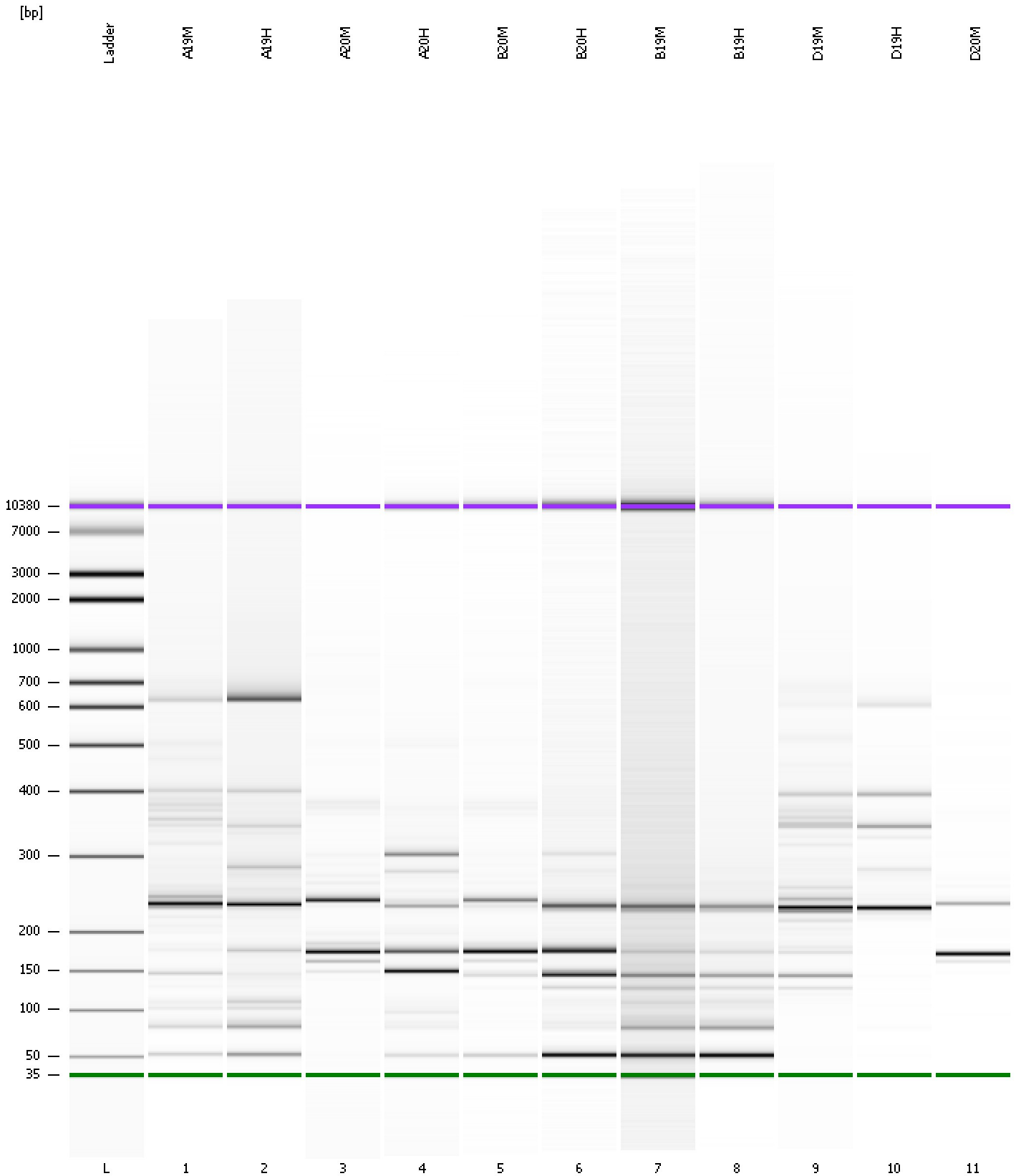
Region table for sample 11 : D20M

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	303	1,944.73	1,259.4	11,103.4	33	42.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
Modified: 7/26/2019 12:41:08 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-26\2019-07-26_007.xad

Created: 7/26/2019 11:57:37 AM
 Modified: 7/26/2019 12:41:08 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		7/26/2019 12:38:00 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\2019-07-26\2019-07-26_007.xad)		Instrument	Run		7/26/2019 11:57:37 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/26/2019 11:57:37 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/26/2019 11:57:37 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/26/2019 11:57:37 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/26/2019 11:57:37 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/26/2019 11:57:37 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/26/2019 11:57:37 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1