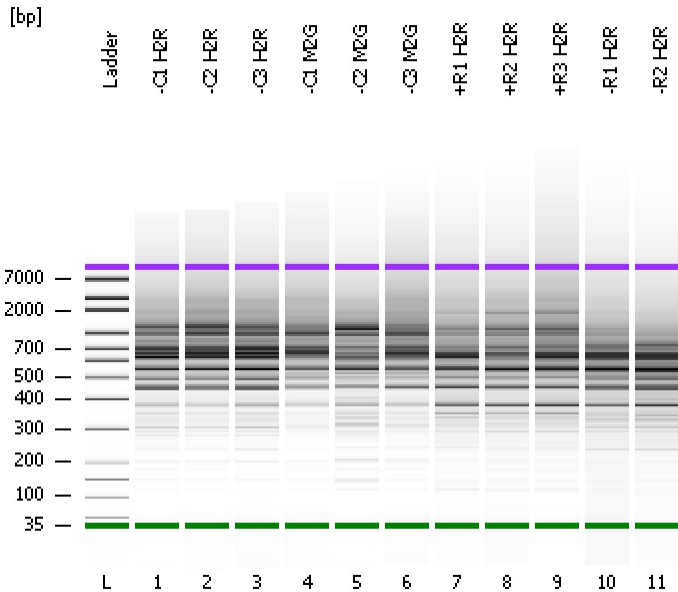


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
Modified: 4/18/2018 3:55:45 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

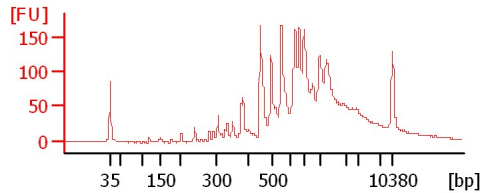
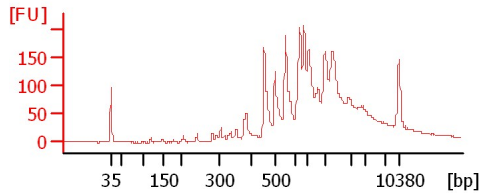
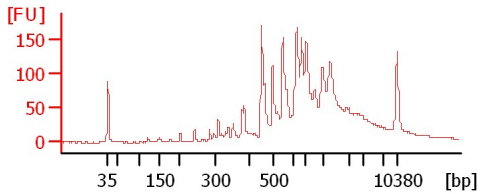
Chip Information:

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

**-C1 H2R**

**-C2 H2R**

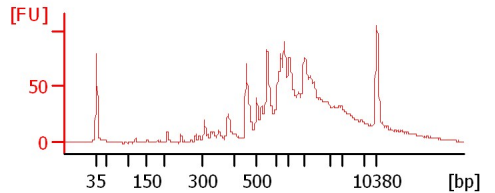
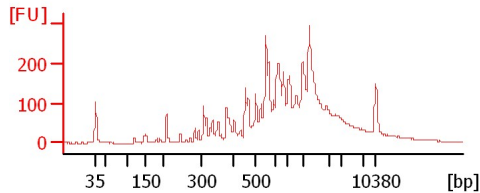
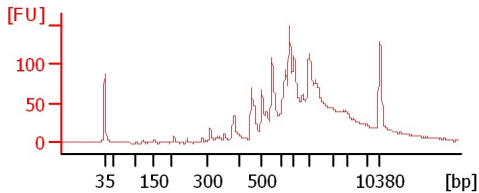
**-C3 H2R**



**-C1 M2G**

**-C2 M2G**

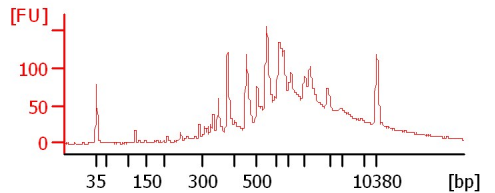
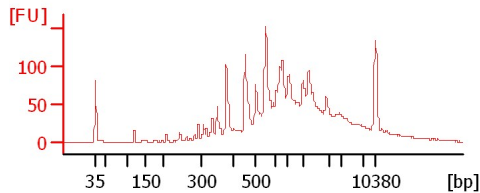
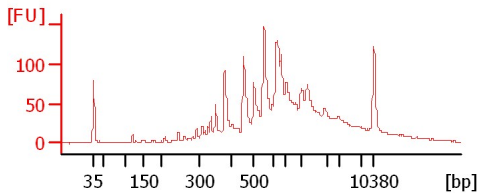
**-C3 M2G**



**+R1 H2R**

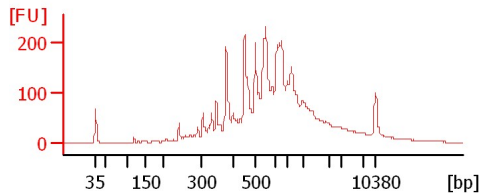
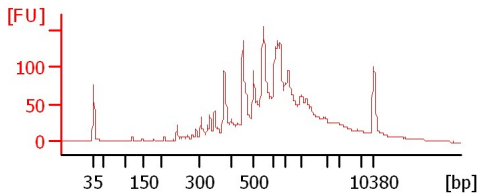
**+R2 H2R**

**+R3 H2R**



**-R1 H2R**

**-R2 H2R**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
-C1 H2R		<input type="checkbox"/>	✓			
-C2 H2R		<input type="checkbox"/>	✓			
-C3 H2R		<input type="checkbox"/>	✓			
-C1 M2G		<input type="checkbox"/>	✓			
-C2 M2G		<input type="checkbox"/>	✓			
-C3 M2G		<input type="checkbox"/>	✓			
+R1 H2R		<input type="checkbox"/>	✓			
+R2 H2R		<input type="checkbox"/>	✓			
+R3 H2R		<input type="checkbox"/>	✓			
-R1 H2R		<input type="checkbox"/>	✓			
-R2 H2R		<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\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
Modified: 4/18/2018 3:55:45 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

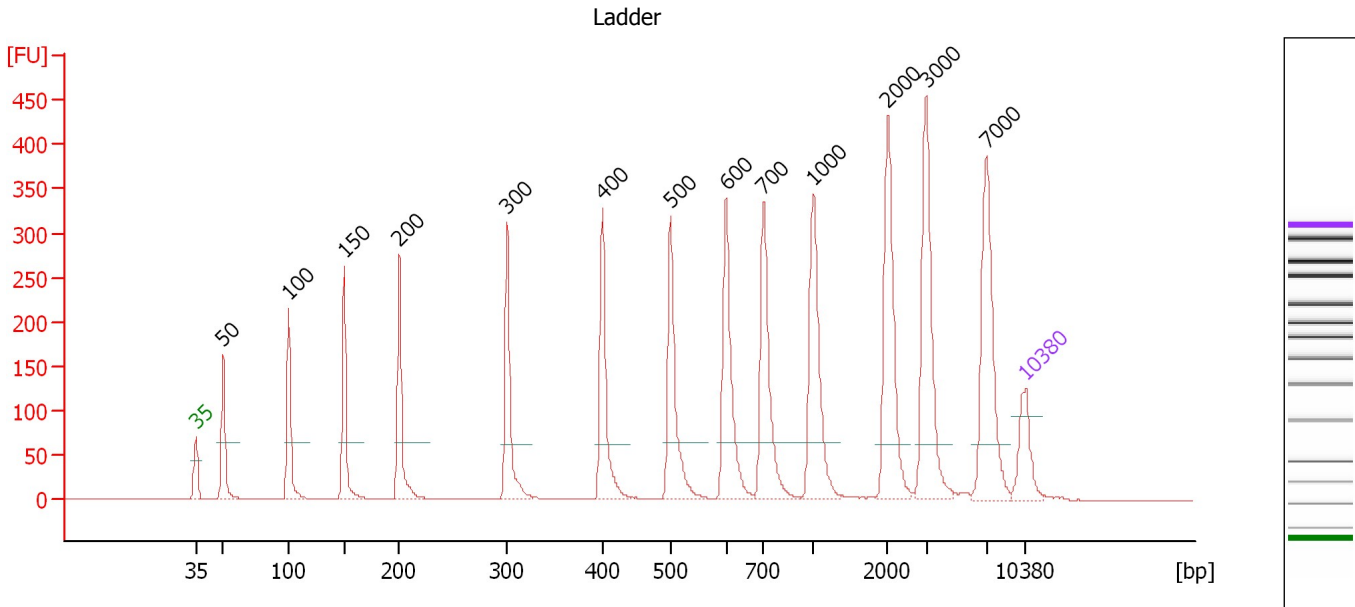
**Ladder**

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\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

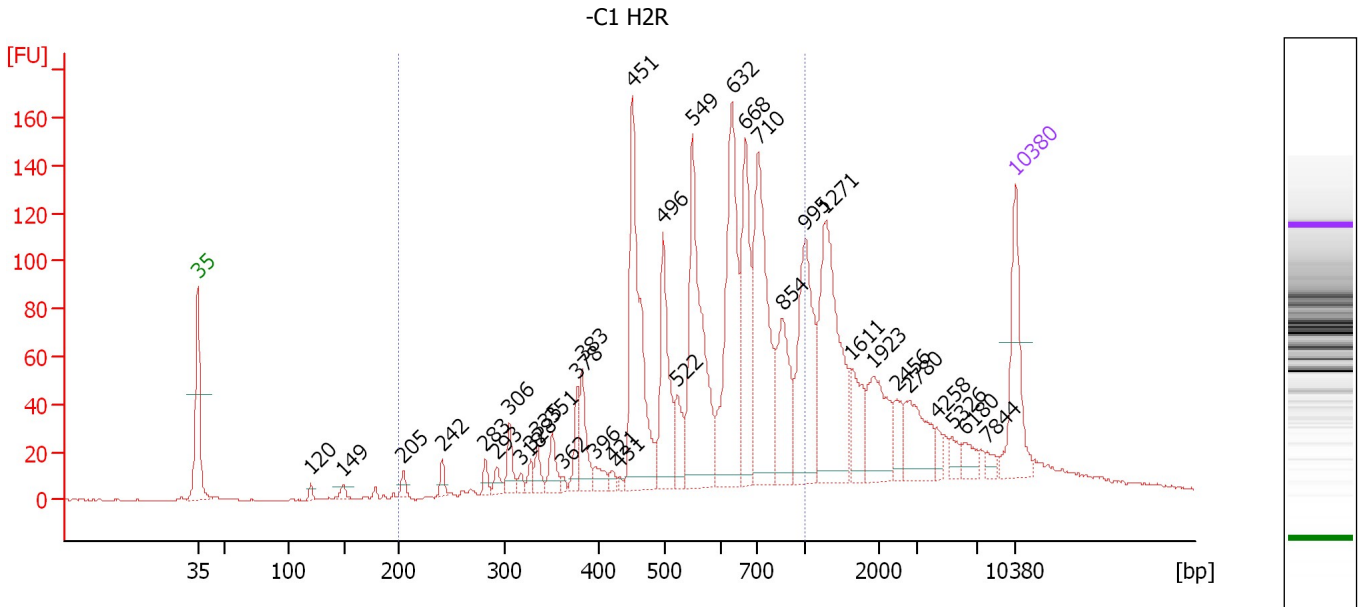
**Peak table for Ladder**

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	45.29
3	100	150.00	2,272.7	Ladder Peak	50.83
4	150	150.00	1,515.2	Ladder Peak	55.51
5	200	150.00	1,136.4	Ladder Peak	60.14
6	300	150.00	757.6	Ladder Peak	69.23
7	400	150.00	568.2	Ladder Peak	77.28
8	500	150.00	454.5	Ladder Peak	83.04
9	600	150.00	378.8	Ladder Peak	87.72
10	700	150.00	324.7	Ladder Peak	90.87
11	1,000	150.00	227.3	Ladder Peak	95.05
12	2,000	150.00	113.6	Ladder Peak	101.35
13	3,000	150.00	75.8	Ladder Peak	104.59
14	7,000	150.00	32.5	Ladder Peak	109.72
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : -C1 H2R**

Number of peaks found: 35      Corr. Area 1: 1,636.0  
 Noise: 0.3

**Peak table for sample 1 : -C1 H2R**

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	120	7.62	96.4		52.67
3	149	9.71	98.4		55.46
4	205	10.78	79.6		60.61
5	242	13.33	83.5		63.95
6	283	11.76	63.1		67.64
7	293	12.98	67.1		68.60
8	306	25.77	127.7		69.69
9	318	7.33	34.9		70.65
10	328	11.30	52.1		71.52
11	335	17.82	80.6		72.07
12	351	25.52	110.1		73.35
13	362	4.56	19.1		74.21
14	378	28.90	115.9		75.49
15	383	44.36	175.6		75.90
16	396	15.04	57.5		77.00
17	421	6.71	24.2		78.50
18	431	3.46	12.2		79.05
19	451	216.75	728.9		80.19
20	496	107.96	329.5		82.84
21	522	37.42	108.6		84.07
22	549	210.08	579.4		85.35
23	632	202.40	485.3		88.72
24	668	130.88	296.8		89.86
25	710	197.30	421.1		91.01

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : -C1 H2R**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	854	93.88	166.6		93.01
27	995	140.34	213.8		94.98
28	1,271	177.85	212.1		96.75
29	1,611	43.98	41.4		98.90
30	1,923	71.04	56.0		100.86
31	2,456	20.27	12.5		102.82
32	2,780	55.56	30.3		103.87
33	4,258	9.56	3.4		106.20
34	5,326	10.54	3.0		107.57
35	6,180	15.32	3.8		108.66
36	7,844	7.27	1.4		110.54
37	10,380	75.00	10.9	Upper Marker	113.00

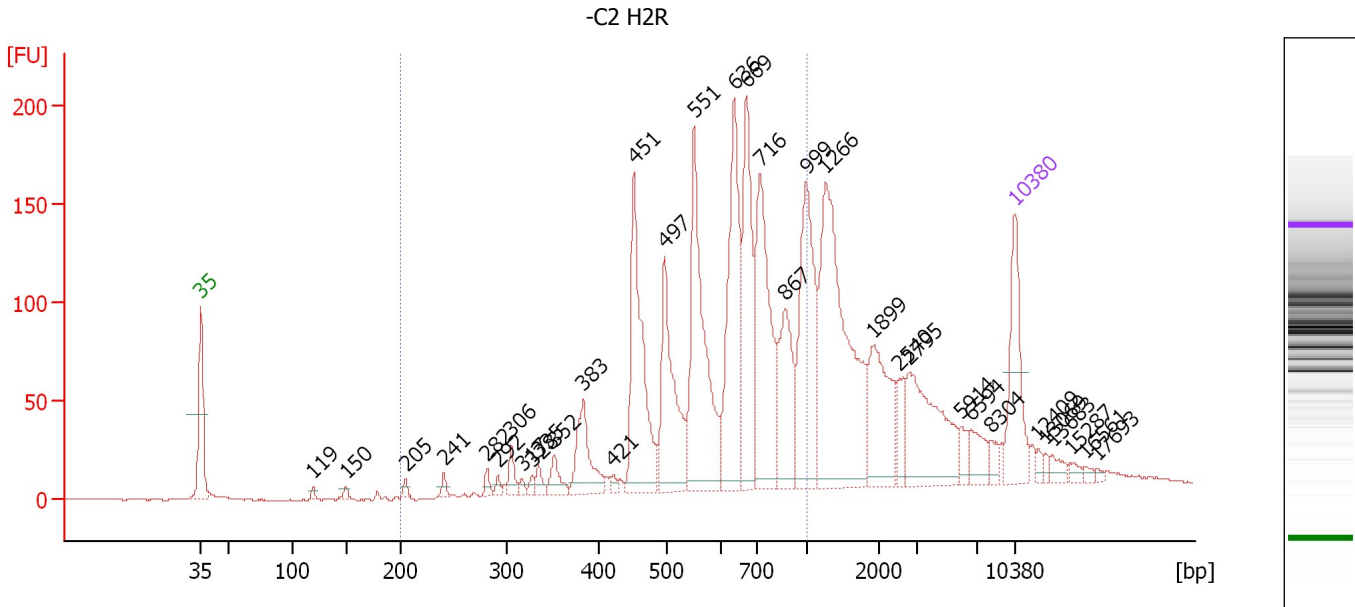
**Region table for sample 1 : -C1 H2R**

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	606	1,574.63	1,636.0	4,480.7	68	28.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : -C2 H2R**

Number of peaks found: 34      Corr. Area 1: 1,813.4  
 Noise: 0.4

**Peak table for sample 2 : -C2 H2R**

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	119	5.62	71.4		52.63
3	150	6.08	61.6		55.47
4	205	6.80	50.2		60.60
5	241	8.30	52.1		63.90
6	282	8.55	45.9		67.62
7	292	6.75	35.0		68.53
8	306	17.22	85.4		69.68
9	317	5.62	26.8		70.60
10	328	5.99	27.6		71.51
11	335	11.56	52.2		72.06
12	352	21.43	92.3		73.39
13	383	67.74	268.0		75.91
14	421	5.70	20.5		78.48
15	451	185.22	622.1		80.22
16	497	144.17	439.3		82.88
17	551	221.67	610.1		85.40
18	636	185.84	442.9		88.84
19	669	154.00	348.7		89.90
20	716	190.25	402.7		91.09
21	867	98.35	171.9		93.20
22	999	164.25	249.2		95.03
23	1,266	279.26	334.2		96.73
24	1,899	93.01	74.2		100.71
25	2,540	24.93	14.9		103.10

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : -C2 H2R**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,795	113.17	61.3		103.92
27	5,914	13.37	3.4		108.32
28	6,594	24.74	5.7		109.20
29	8,304	10.16	1.9		110.98
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,409	0.00	0.0		114.97
32	13,069	0.00	0.0		115.61
33	13,683	0.00	0.0		116.21
34	15,287	0.00	0.0		117.77
35	16,561	0.00	0.0		119.01
36	17,693	0.00	0.0		120.11

**Region table for sample 2 : -C2 H2R**

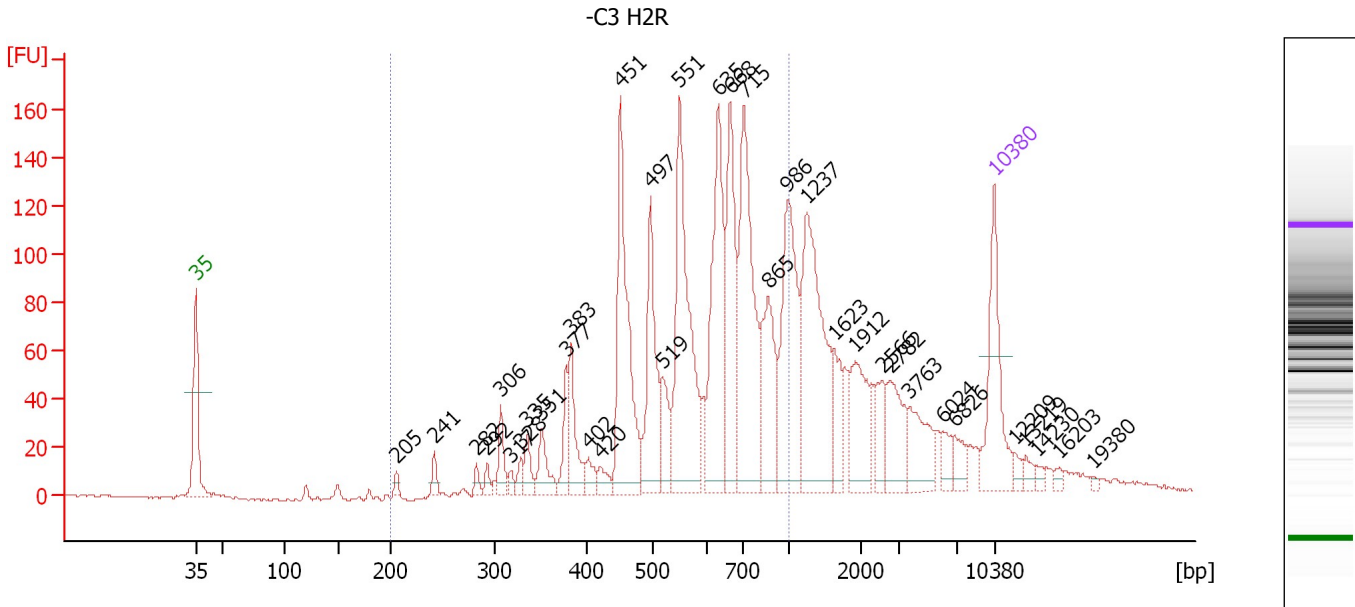
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	628	1,381.38	1,813.4	3,699.5	61	26.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : -C3 H2R**

Number of peaks found: 35                      Corr. Area 1: 1,734.1  
 Noise: 0.4

**Peak table for sample 3 : -C3 H2R**

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	205	6.61	48.9		60.58
3	241	12.28	77.0		63.90
4	282	8.55	46.0		67.60
5	292	8.47	43.9		68.53
6	306	25.62	126.7		69.75
7	317	6.90	33.0		70.59
8	328	10.40	48.1		71.48
9	335	19.08	86.3		72.04
10	351	29.96	129.5		73.30
11	377	29.89	120.0		75.45
12	383	50.12	198.5		75.87
13	402	13.28	50.0		77.42
14	420	12.58	45.3		78.44
15	451	178.69	600.2		80.22
16	497	106.05	323.6		82.84
17	519	37.80	110.4		83.92
18	551	202.27	556.5		85.41
19	635	161.04	384.1		88.82
20	668	122.94	278.9		89.85
21	715	191.86	406.8		91.07
22	865	87.69	153.5		93.17
23	986	140.39	215.7		94.86
24	1,237	172.58	211.5		96.54
25	1,623	32.67	30.5		98.97

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : -C3 H2R**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,912	58.79	46.6		100.80
27	2,566	25.71	15.2		103.18
28	2,782	47.89	26.1		103.88
29	3,763	41.40	16.7		105.57
30	6,024	14.68	3.7		108.46
31	6,826	15.87	3.5		109.49
32	10,380	75.00	10.9	Upper Marker	113.00
33	12,209	0.00	0.0		114.78
34	13,219	0.00	0.0		115.76
35	14,230	0.00	0.0		116.74
36	16,203	0.00	0.0		118.66
37	19,380	0.00	0.0		121.74

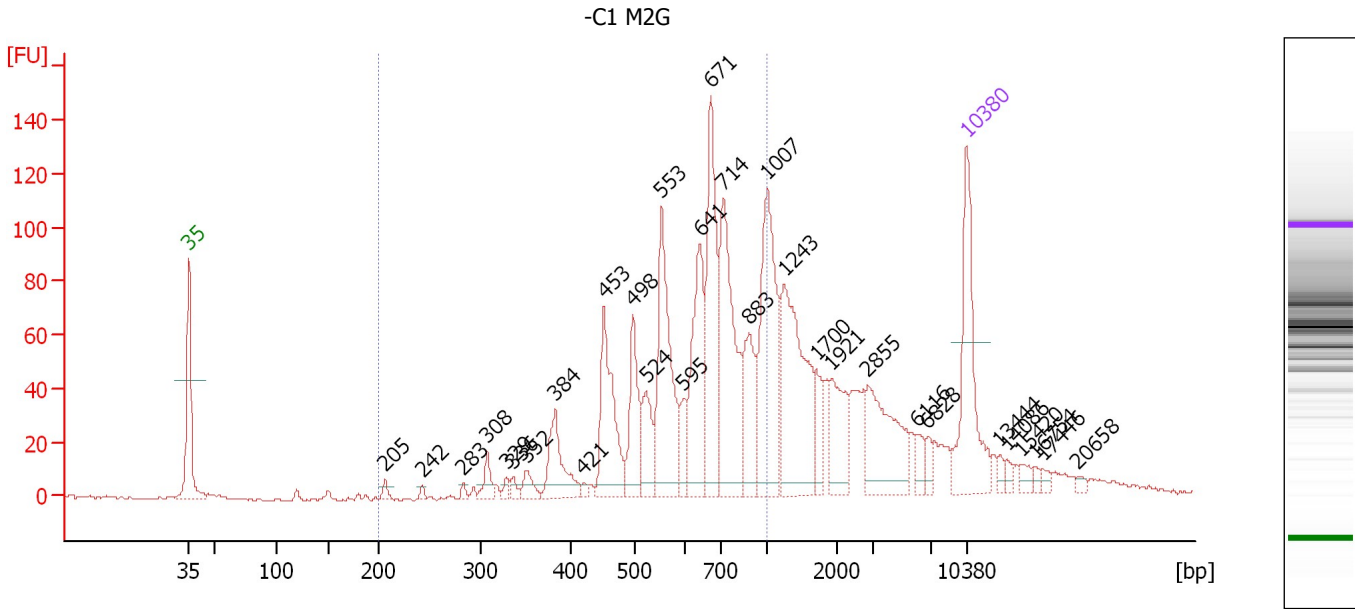
**Region table for sample 3 : -C3 H2R**

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	612	1,390.32	1,734.1	3,891.6	66	27.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : -C1 M2G**

Number of peaks found: 31                      Corr. Area 1: 1,153.9  
 Noise: 0.4

**Peak table for sample 4 : -C1 M2G**

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	205	6.19	45.7		60.62
3	242	3.27	20.5		63.98
4	283	3.65	19.5		67.68
5	308	13.67	67.3		69.84
6	329	5.00	23.0		71.57
7	336	5.57	25.1		72.14
8	352	12.11	52.2		73.39
9	384	46.21	182.4		75.98
10	421	3.10	11.1		78.48
11	453	84.02	280.8		80.35
12	498	52.33	159.1		82.95
13	524	34.23	99.0		84.15
14	553	112.49	308.0		85.54
15	595	17.30	44.0		87.51
16	641	90.59	214.3		88.99
17	671	106.94	241.5		89.95
18	714	127.31	270.2		91.06
19	883	48.73	83.7		93.41
20	1,007	115.31	173.6		95.09
21	1,243	117.75	143.5		96.58
22	1,700	20.78	18.5		99.46
23	1,921	36.95	29.1		100.85
24	2,855	65.30	34.7		104.12
25	6,116	8.66	2.1		108.58

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : -C1 M2G

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,828	7.72	1.7		109.50
27	10,380	75.00	10.9	Upper Marker	113.00
28	13,444	0.00	0.0		115.98
29	14,086	0.00	0.0		116.60
30	15,420	0.00	0.0		117.90
31	16,754	0.00	0.0		119.19
32	17,446	0.00	0.0		119.87
33	20,658	0.00	0.0		122.99

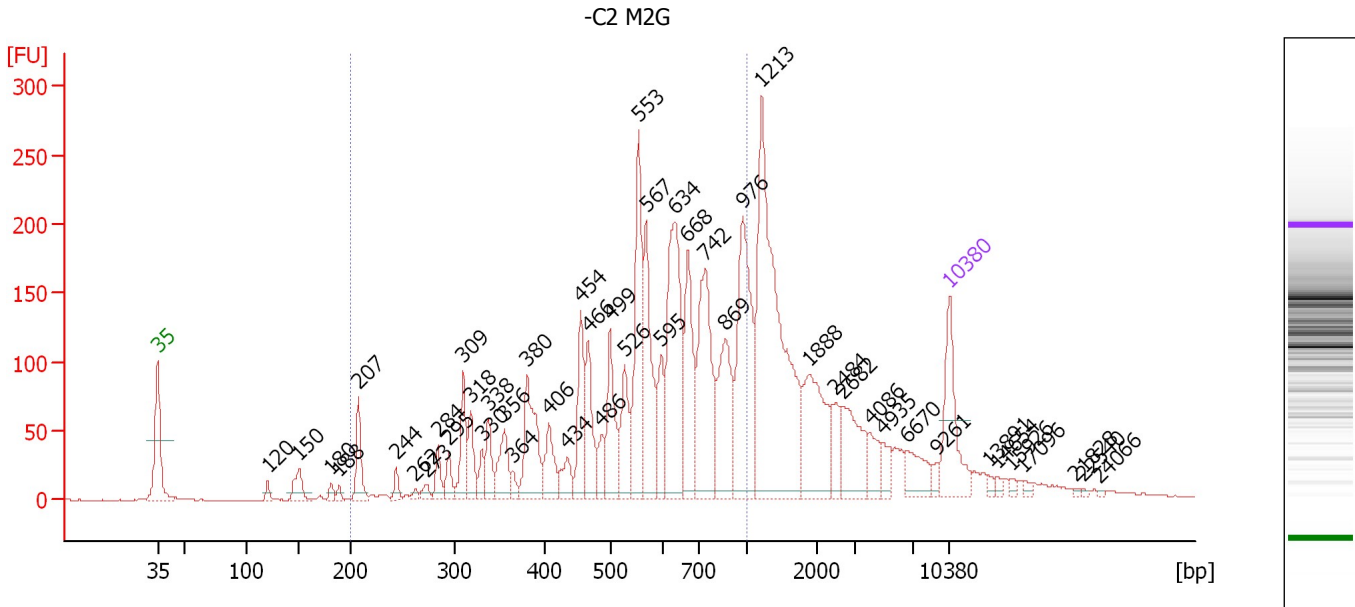
#### Region table for sample 4 : -C1 M2G

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	641	798.93	1,153.9	2,095.1	 60	25.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

Created: 4/18/2018 3:15:16 PM  
 Modified: 4/18/2018 3:55:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : -C2 M2G**

Number of peaks found: 47                      Corr. Area 1: 2,669.8  
 Noise: 0.4

**Peak table for sample 5 : -C2 M2G**

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	120	10.78	135.7		52.74
3	150	33.13	334.6		55.51
4	180	9.06	76.1		58.32
5	188	6.75	54.4		59.02
6	207	52.63	385.8		60.75
7	244	13.86	86.2		64.11
8	262	5.96	34.5		65.79
9	273	10.07	55.9		66.78
10	284	23.98	128.0		67.77
11	295	21.44	110.2		68.76
12	309	55.19	270.2		69.99
13	318	41.52	197.8		70.68
14	330	19.54	89.6		71.67
15	338	36.03	161.6		72.27
16	356	48.50	206.7		73.70
17	364	10.06	41.8		74.39
18	380	99.29	395.8		75.68
19	406	45.67	170.6		77.60
20	434	26.70	93.2		79.24
21	454	71.94	240.3		80.37
22	466	69.04	224.6		81.06
23	486	25.23	78.6		82.25
24	499	79.35	240.8		82.99
25	526	59.39	170.9		84.28

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : -C2 M2G**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	553	146.19	400.6		85.51
27	567	122.91	328.7		86.16
28	595	50.93	129.7		87.49
29	634	197.46	472.2		88.78
30	668	110.93	251.5		89.86
31	742	165.85	338.9		91.45
32	869	106.14	185.0		93.23
33	976	181.20	281.4		94.71
34	1,213	365.60	456.8		96.39
35	1,888	108.89	87.4		100.64
36	2,484	27.27	16.6		102.92
37	2,682	68.22	38.5		103.56
38	4,086	24.66	9.1		105.98
39	4,935	17.63	5.4		107.07
40	6,670	32.55	7.4		109.29
41	9,261	7.88	1.3		111.91
42	10,380	75.00	10.9	Upper Marker	113.00
43	13,891	0.00	0.0		116.41
44	14,654	0.00	0.0		117.15
45	15,926	0.00	0.0		118.39
46	17,096	0.00	0.0		119.53
47	21,828	0.00	0.0		124.12
48	22,540	0.00	0.0		124.81
49	24,066	0.00	0.0		126.30

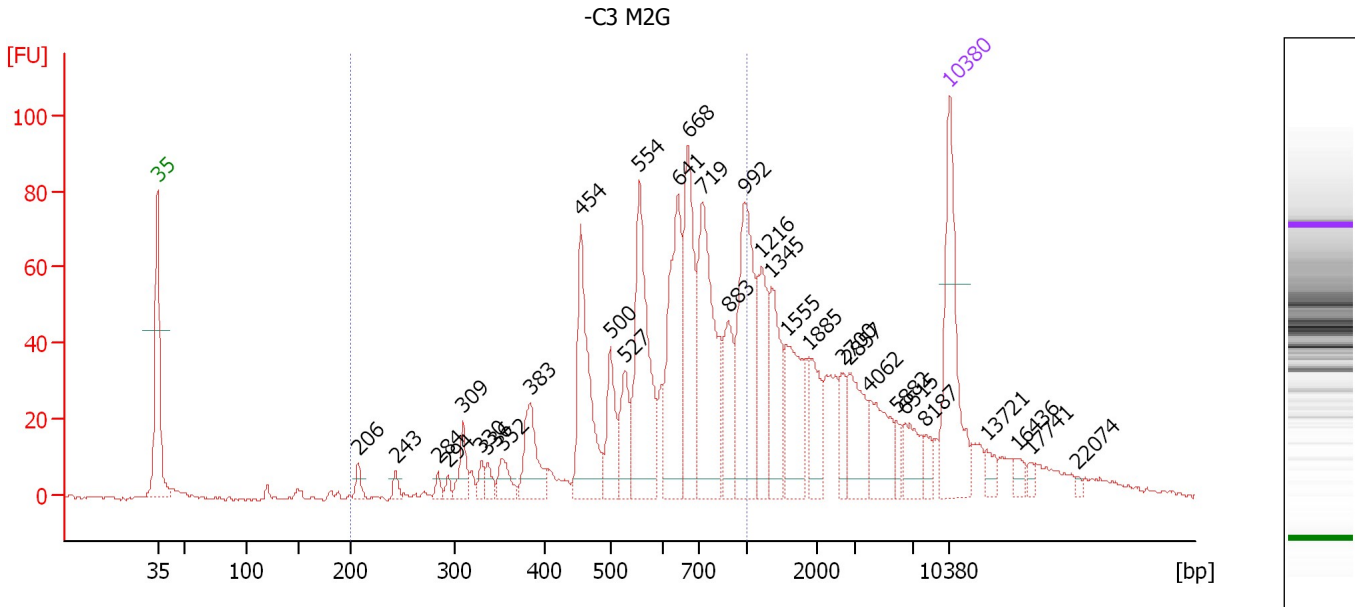
**Region table for sample 5 : -C2 M2G**

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	590	1,821.11	2,669.8	5,589.5	63	31.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : -C3 M2G**

Number of peaks found: 32                      Corr. Area 1: 944.2  
 Noise: 0.5

**Peak table for sample 6 : -C3 M2G**

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	206	9.35	68.7		60.70
3	243	6.62	41.3		64.05
4	284	5.44	29.0		67.75
5	294	4.72	24.4		68.67
6	309	20.29	99.3		69.99
7	330	8.05	37.0		71.61
8	336	8.74	39.4		72.17
9	352	16.82	72.3		73.43
10	383	41.83	165.4		75.92
11	454	96.42	321.8		80.38
12	500	37.11	112.5		83.02
13	527	33.60	96.7		84.29
14	554	113.77	311.2		85.56
15	641	98.80	233.5		89.01
16	668	90.53	205.2		89.87
17	719	124.15	261.4		91.14
18	883	38.81	66.6		93.42
19	992	100.25	153.1		94.94
20	1,216	45.84	57.1		96.41
21	1,345	48.37	54.5		97.22
22	1,555	49.88	48.6		98.54
23	1,885	28.70	23.1		100.62
24	2,700	14.11	7.9		103.62
25	2,857	36.49	19.4		104.12

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : -C3 M2G**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,062	35.21	13.1		105.95
27	5,882	8.40	2.2		108.28
28	6,515	20.76	4.8		109.09
29	8,187	8.56	1.6		110.87
30	10,380	75.00	10.9	Upper Marker	113.00
31	13,721	0.00	0.0		116.25
32	16,436	0.00	0.0		118.88
33	17,741	0.00	0.0		120.15
34	22,074	0.00	0.0		124.36

**Region table for sample 6 : -C3 M2G**

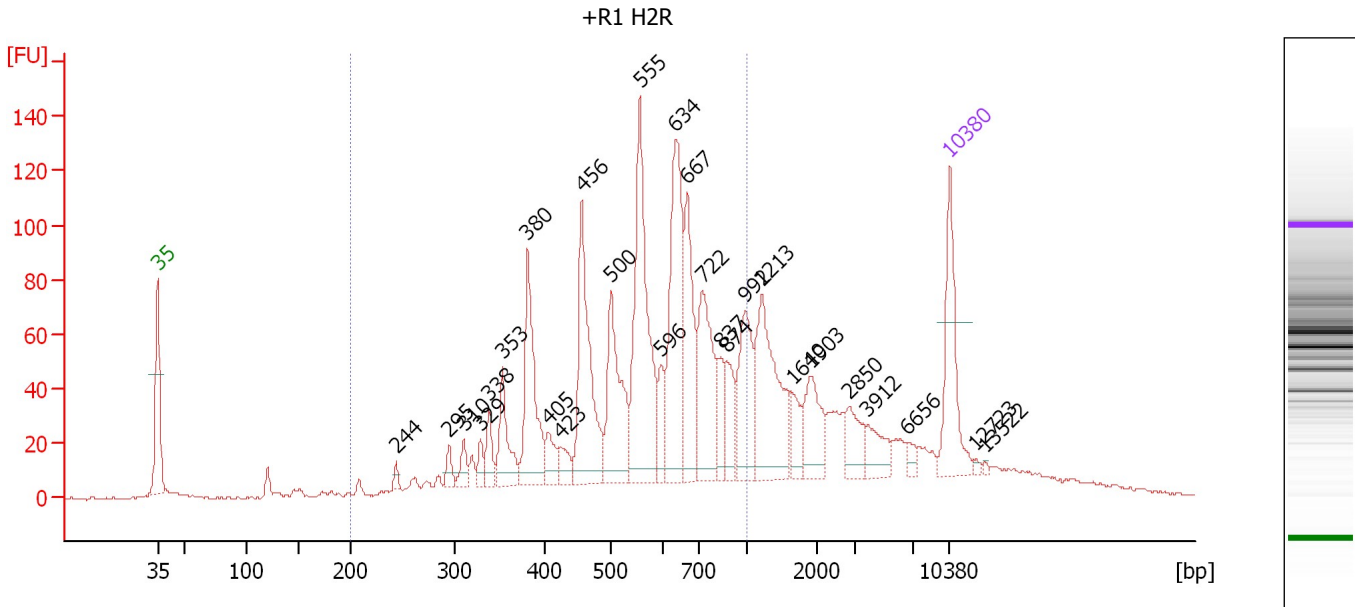
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	625	834.05	944.2	2,308.4	58	27.9



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : +R1 H2R**

Number of peaks found: 27                      Corr. Area 1: 1,521.7  
 Noise: 0.5

**Peak table for sample 7 : +R1 H2R**

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	244	7.08	44.1		64.11
3	295	14.10	72.5		68.76
4	310	18.40	89.8		70.06
5	329	14.56	67.0		71.56
6	338	25.56	114.6		72.28
7	353	56.13	241.1		73.47
8	380	121.21	482.9		75.70
9	405	24.82	92.9		77.56
10	423	20.02	71.8		78.59
11	456	157.19	522.2		80.51
12	500	116.56	353.1		83.04
13	555	210.87	575.3		85.63
14	596	29.99	76.2		87.55
15	634	171.14	409.0		88.79
16	667	102.49	232.9		89.82
17	722	114.05	239.5		91.17
18	837	30.44	55.1		92.77
19	874	36.10	62.6		93.29
20	992	78.33	119.6		94.94
21	1,213	129.15	161.3		96.39
22	1,640	22.28	20.6		99.08
23	1,903	49.35	39.3		100.74
24	2,850	31.34	16.7		104.10
25	3,912	26.40	10.2		105.76

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 7 : +R1 H2R

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,656	8.10	1.8		109.27
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,723	0.00	0.0		115.28
29	13,522	0.00	0.0		116.05

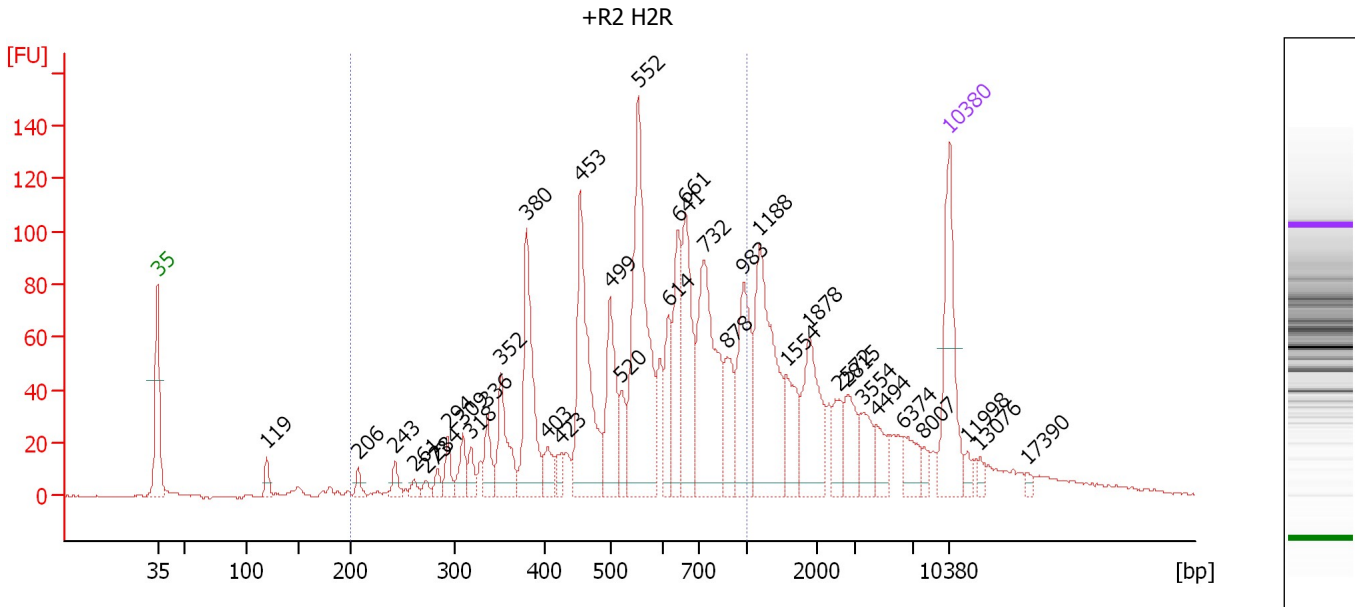
#### Region table for sample 7 : +R1 H2R

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	571	1,558.05	1,521.7	4,771.8	68	30.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : +R2 H2R**

Number of peaks found: 36                      Corr. Area 1: 1,510.8  
 Noise: 0.4

**Peak table for sample 8 : +R2 H2R**

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	119	14.31	181.6		52.64
3	206	9.78	71.9		60.71
4	243	11.88	74.2		64.01
5	261	6.89	40.0		65.69
6	273	6.18	34.3		66.79
7	284	8.65	46.2		67.73
8	294	17.95	92.6		68.67
9	309	21.80	106.8		69.98
10	318	14.28	67.9		70.72
11	336	25.41	114.6		72.13
12	352	55.26	238.1		73.39
13	380	107.53	429.1		75.64
14	403	19.84	74.5		77.48
15	423	11.49	41.1		78.63
16	453	145.06	484.7		80.36
17	499	70.22	213.2		82.98
18	520	25.02	72.9		83.97
19	552	193.88	531.7		85.49
20	614	39.35	97.1		88.16
21	641	68.29	161.5		89.00
22	661	91.39	209.5		89.63
23	732	142.71	295.5		91.31
24	878	40.04	69.1		93.35
25	983	78.65	121.2		94.82

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : +R2 H2R**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,188	131.46	167.7		96.23
27	1,554	35.24	34.4		98.54
28	1,878	65.59	52.9		100.58
29	2,572	21.57	12.7		103.20
30	2,815	28.89	15.5		103.99
31	3,554	24.05	10.3		105.30
32	4,494	17.68	6.0		106.50
33	6,374	21.15	5.0		108.91
34	8,007	7.42	1.4		110.69
35	10,380	75.00	10.9	Upper Marker	113.00
36	11,998	0.00	0.0		114.57
37	13,076	0.00	0.0		115.62
38	17,390	0.00	0.0		119.81

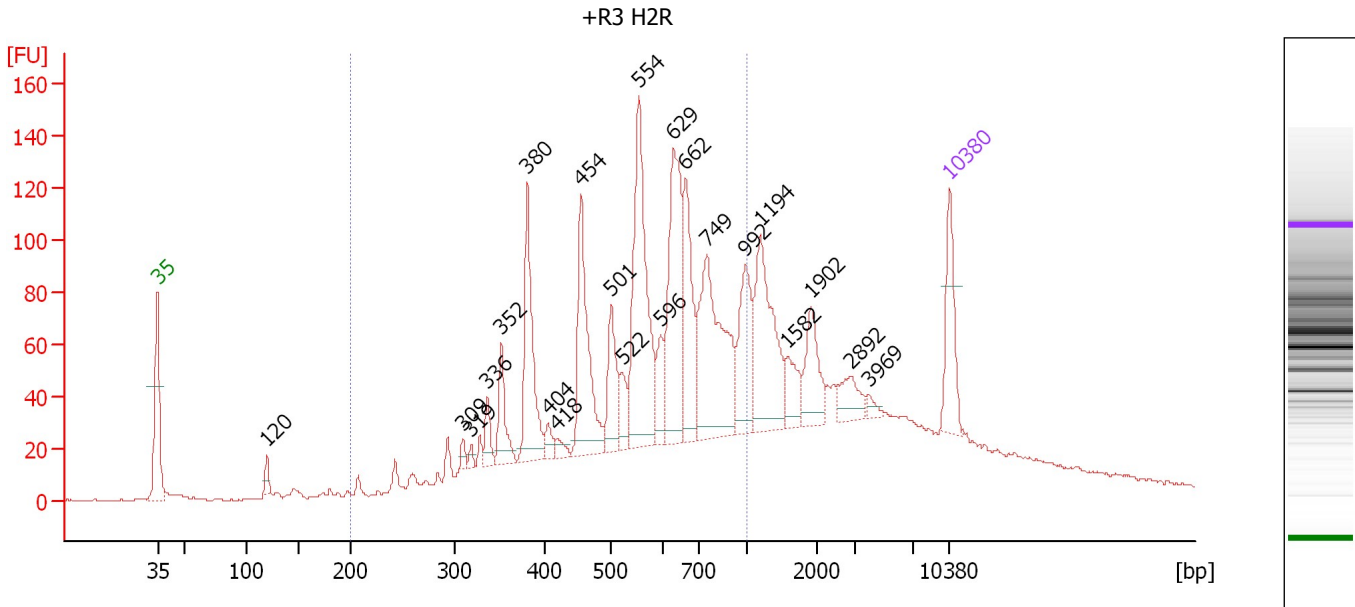
**Region table for sample 8 : +R2 H2R**

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	575	1,245.51	1,510.8	3,806.0	65	30.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : +R3 H2R**

Number of peaks found: 22                      Corr. Area 1: 1,761.6  
 Noise: 0.4

**Peak table for sample 9 : +R3 H2R**

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	120	20.63	261.2		52.67
3	309	12.11	59.3		69.98
4	319	8.71	41.4		70.72
5	336	31.39	141.4		72.16
6	352	64.91	279.7		73.38
7	380	171.97	685.8		75.66
8	404	19.07	71.5		77.52
9	418	11.94	43.3		78.32
10	454	190.73	636.5		80.39
11	501	84.13	254.3		83.10
12	522	38.19	110.9		84.05
13	554	293.43	803.2		85.54
14	596	45.60	116.0		87.51
15	629	229.62	553.3		88.62
16	662	145.88	333.7		89.68
17	749	257.00	520.2		91.54
18	992	108.52	165.7		94.94
19	1,194	178.08	226.0		96.27
20	1,582	42.80	41.0		98.71
21	1,902	68.43	54.5		100.73
22	2,892	35.84	18.8		104.24
23	3,969	8.82	3.4		105.83
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**

... Region table for sample 9 :

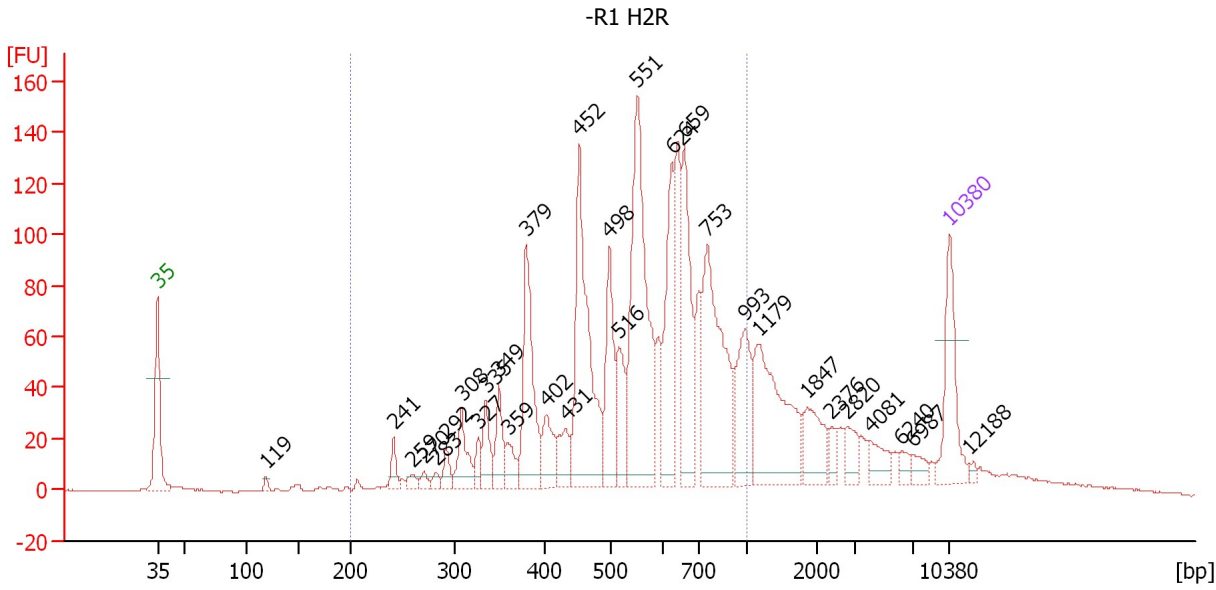
+R3 H2R

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	574	2,608.31	1,761.6	8,001.0	 63	30.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : -R1 H2R**

Number of peaks found: 30                      Corr. Area 1: 1,818.0  
 Noise: 0.3

**Peak table for sample 10 : -R1 H2R**

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	119	6.65	84.8		52.58
3	241	21.82	137.2		63.87
4	259	10.74	62.8		65.52
5	270	10.40	58.3		66.53
6	283	8.43	45.2		67.65
7	292	19.04	98.8		68.50
8	308	50.87	250.2		69.88
9	327	18.44	85.6		71.37
10	335	39.36	178.3		72.01
11	349	42.85	186.0		73.18
12	359	25.35	107.0		73.98
13	379	145.72	582.8		75.58
14	402	45.86	172.9		77.39
15	431	38.12	133.9		79.09
16	452	238.67	800.4		80.26
17	498	99.92	304.0		82.92
18	516	60.65	178.2		83.78
19	551	296.14	814.3		85.43
20	624	125.39	304.7		88.46
21	659	135.45	311.4		89.58
22	753	216.72	436.3		91.60
23	993	88.76	135.4		94.95
24	1,179	161.90	208.0		96.18
25	1,847	49.40	40.5		100.38

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 10 : -R1 H2R

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,376	12.59	8.0		102.57
27	2,820	21.79	11.7		104.00
28	4,081	24.27	9.0		105.97
29	6,240	9.88	2.4		108.74
30	6,987	12.64	2.7		109.70
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,188	0.00	0.0		114.76

#### Region table for sample 10 : -R1 H2R

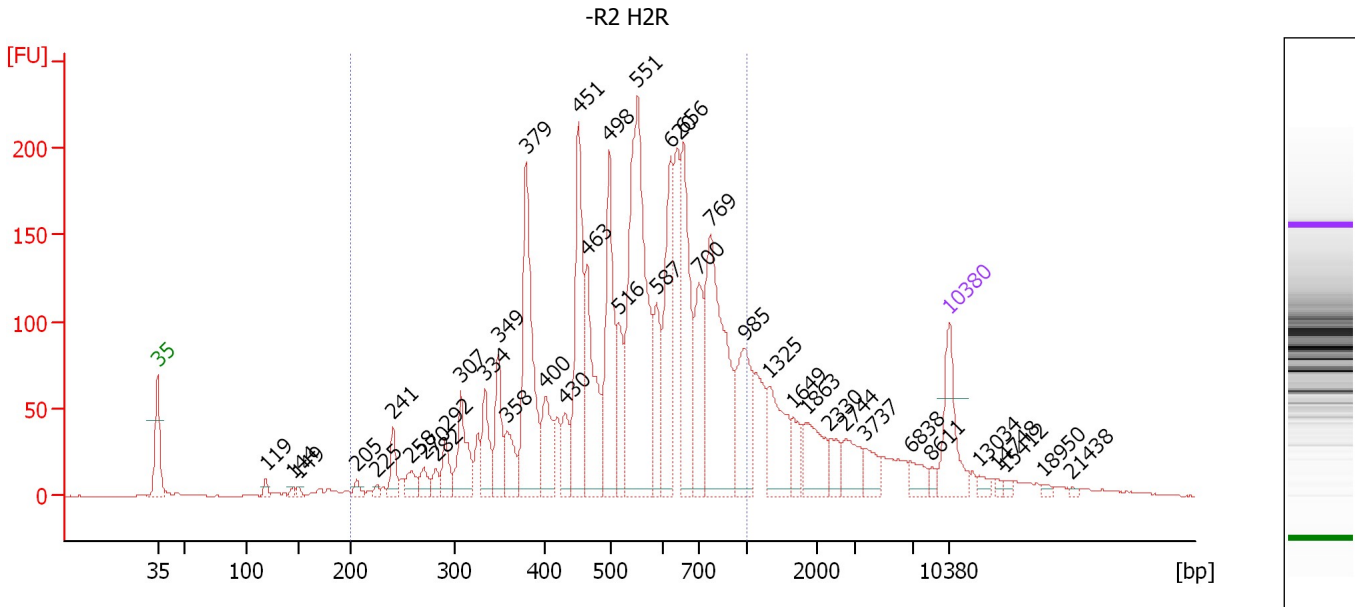
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	569	2,027.97	1,818.0	6,214.7	 75	29.6



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : -R2 H2R**

Number of peaks found: 41                      Corr. Area 1: 3,055.0  
 Noise: 0.2

**Peak table for sample 11 : -R2 H2R**

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	119	11.94	152.6		52.56
3	144	6.33	66.4		54.98
4	149	7.04	71.6		55.41
5	205	13.10	96.7		60.62
6	225	7.31	49.3		62.39
7	241	39.02	245.6		63.84
8	258	26.12	153.4		65.40
9	270	24.00	134.5		66.53
10	282	18.92	101.6		67.60
11	292	38.79	201.5		68.46
12	307	89.77	442.8		69.81
13	334	66.66	302.5		71.96
14	349	77.78	338.1		73.14
15	358	54.56	231.0		73.89
16	379	245.11	981.0		75.56
17	400	74.10	280.7		77.27
18	430	44.86	158.2		78.99
19	451	210.09	705.5		80.23
20	463	161.66	528.6		80.93
21	498	184.39	561.2		82.92
22	516	76.84	225.7		83.78
23	551	432.22	1,187.8		85.44
24	587	82.37	212.6		87.11
25	620	171.29	418.7		88.34

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 11 : -R2 H2R**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	656	192.79	445.5		89.47
27	700	109.78	237.6		90.87
28	769	291.41	573.9		91.83
29	985	114.44	176.0		94.84
30	1,325	93.27	106.6		97.10
31	1,649	30.54	28.1		99.14
32	1,863	65.39	53.2		100.48
33	2,330	23.94	15.6		102.42
34	2,744	41.86	23.1		103.76
35	3,737	26.88	10.9		105.53
36	6,838	21.43	4.7		109.51
37	8,611	8.22	1.4		111.28
38	10,380	75.00	10.9	Upper Marker	113.00
39	13,034	0.00	0.0		115.58
40	14,748	0.00	0.0		117.24
41	15,412	0.00	0.0		117.89
42	18,950	0.00	0.0		121.33
43	21,438	0.00	0.0		123.74

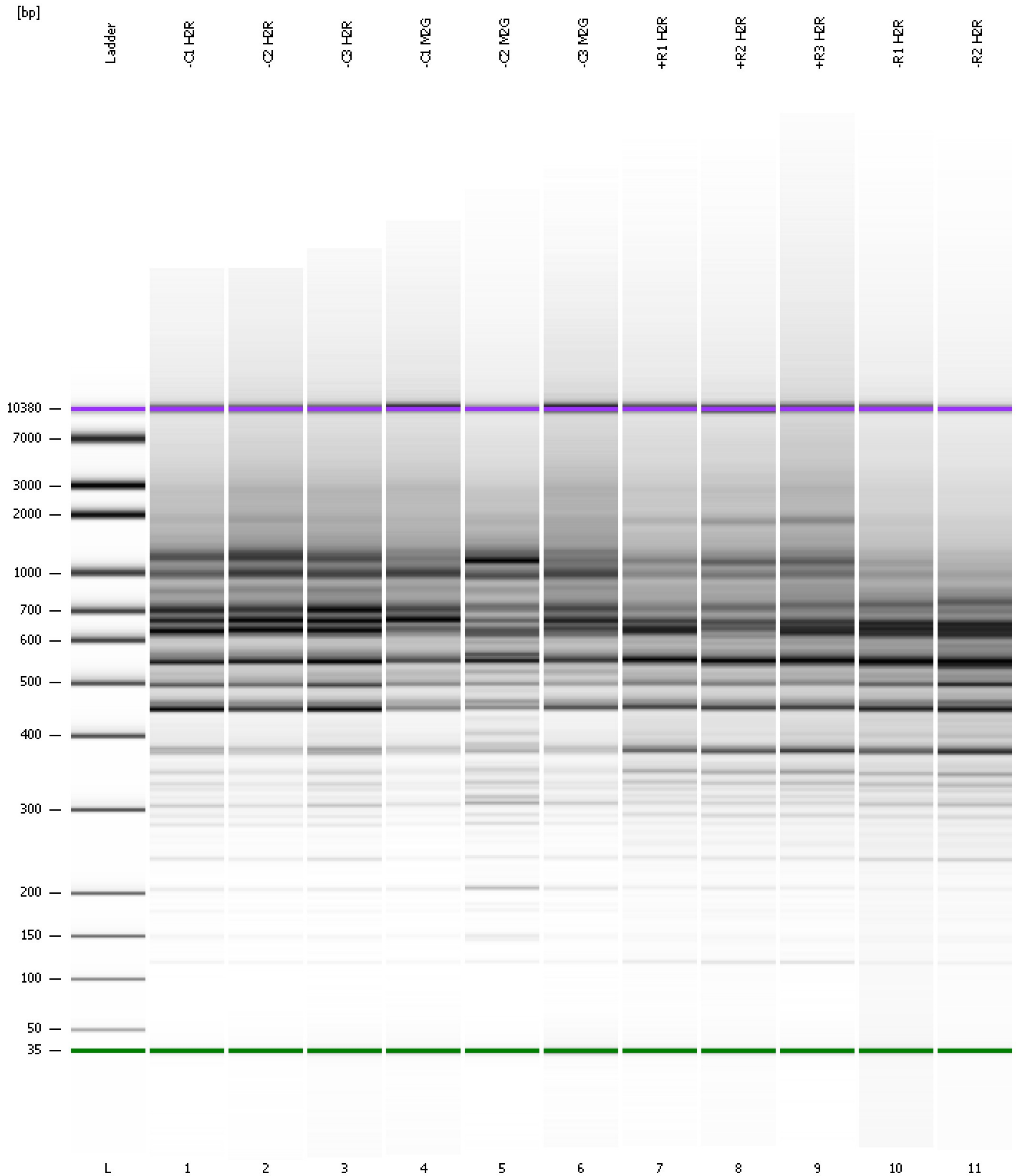
**Region table for sample 11 : -R2 H2R**

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	555	3,026.28	3,055.0	9,542.3	80	30.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-18\2018-04-18\_003.xad

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**Curves**

**Standard Curve**

