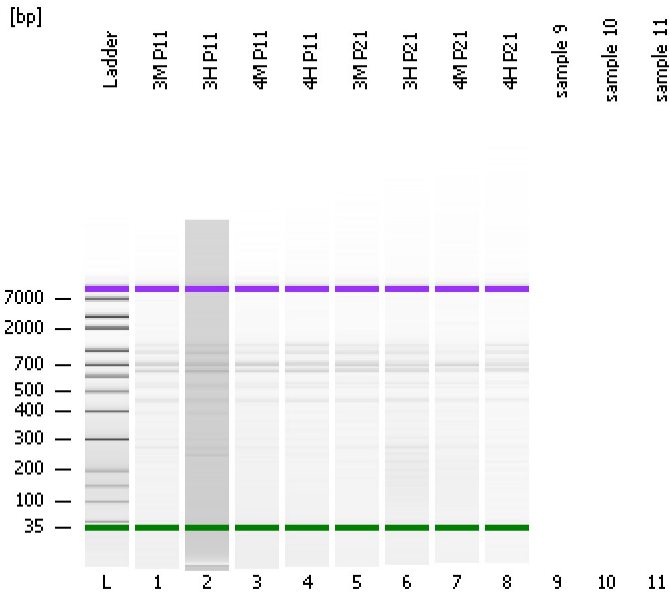


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
Modified: 3/19/2018 10:23:37 AM

**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

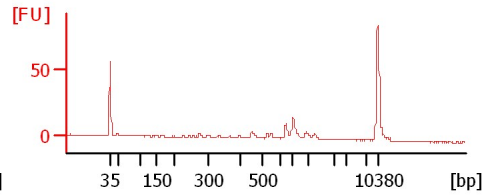
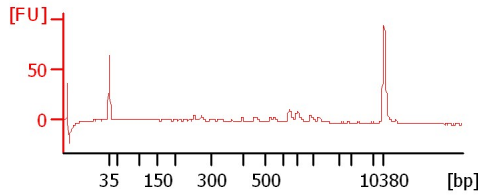
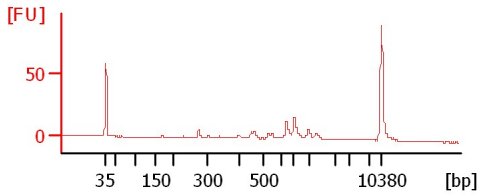
Chip Information:

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

**3M P11**

**3H P11**

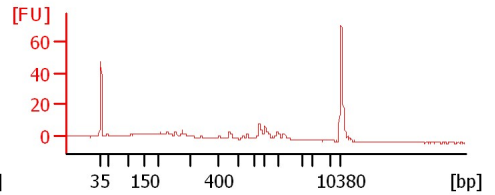
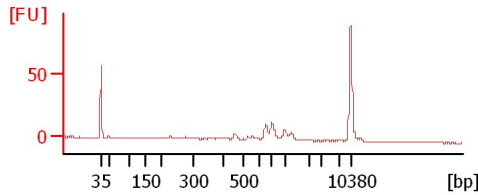
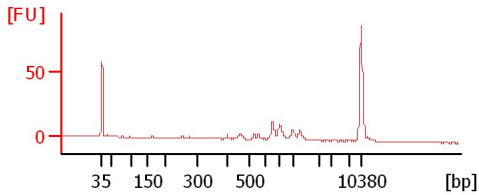
**4M P11**



**4H P11**

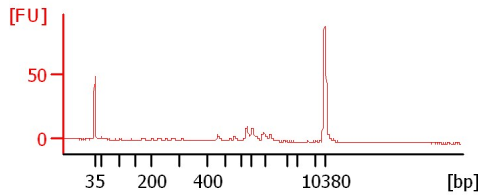
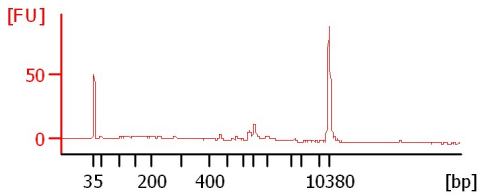
**3M P21**

**3H P21**



**4M P21**

**4H P21**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
Modified: 3/19/2018 10:23:37 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
3M P11		<input type="checkbox"/>	✓			
3H P11		<input type="checkbox"/>	✓			
4M P11		<input type="checkbox"/>	✓			
4H P11		<input type="checkbox"/>	✓			
3M P21		<input type="checkbox"/>	✓			
3H P21		<input type="checkbox"/>	✓			
4M P21		<input type="checkbox"/>	✓			
4H P21		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

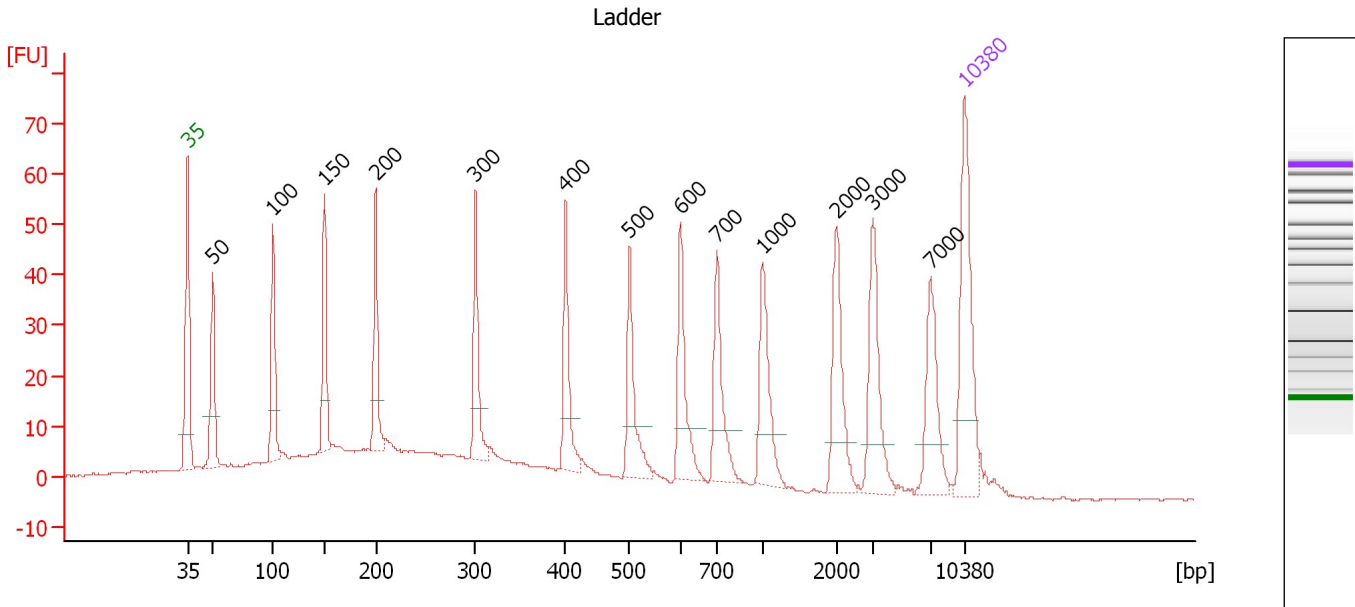
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

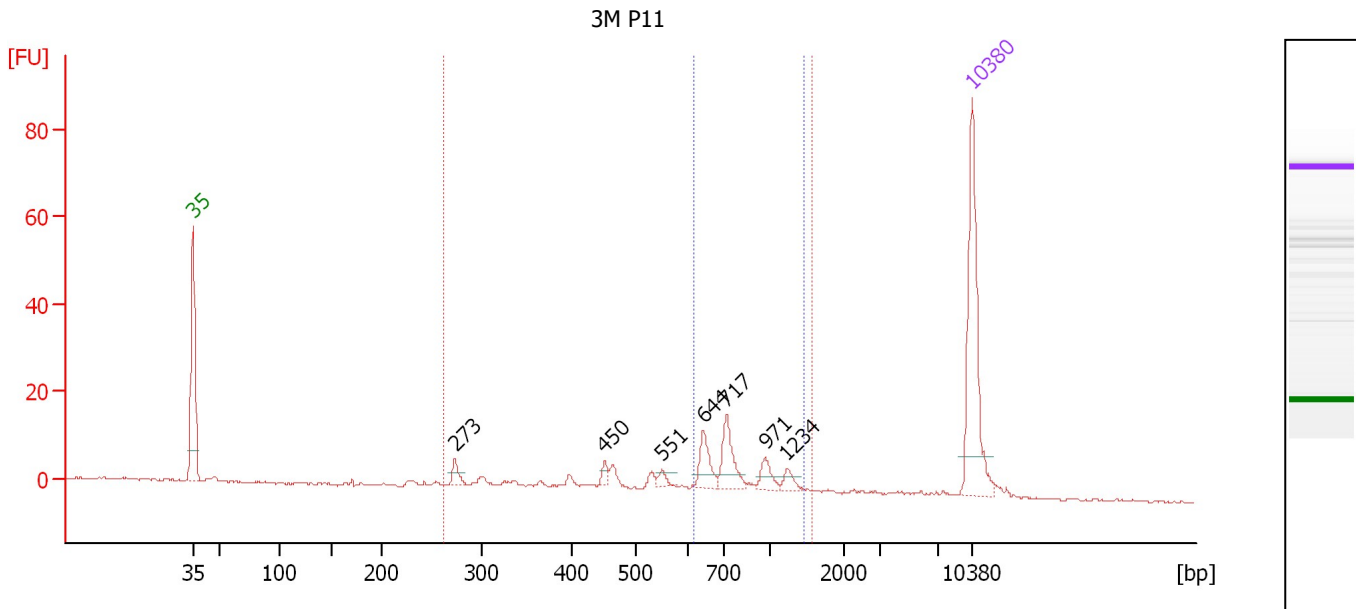
**Peak table for Ladder**

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	45.26
3	100	150.00	2,272.7	Ladder Peak	50.69
4	150	150.00	1,515.2	Ladder Peak	55.35
5	200	150.00	1,136.4	Ladder Peak	59.96
6	300	150.00	757.6	Ladder Peak	68.94
7	400	150.00	568.2	Ladder Peak	77.06
8	500	150.00	454.5	Ladder Peak	82.83
9	600	150.00	378.8	Ladder Peak	87.39
10	700	150.00	324.7	Ladder Peak	90.71
11	1,000	150.00	227.3	Ladder Peak	94.79
12	2,000	150.00	113.6	Ladder Peak	101.52
13	3,000	150.00	75.8	Ladder Peak	104.74
14	7,000	150.00	32.5	Ladder Peak	109.97
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 3M P11**

Number of peaks found: 8                      Corr. Area 1: 106.6  
 Noise: 0.3                                      Corr. Area 2: 59.9

**Peak table for sample 1 : 3M P11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		0.86
2	35	125.00	5,411.3	Lower Marker	43.00
3	273	9.15	50.7		66.54
4	450	5.29	17.8		79.97
5	551	4.79	13.2		85.14
6	644	19.43	45.7		88.84
7	717	26.81	56.6		90.95
8	971	9.92	15.5		94.40
9	1,234	5.96	7.3		96.36
10	10,380	75.00	10.9	Upper Marker	113.00

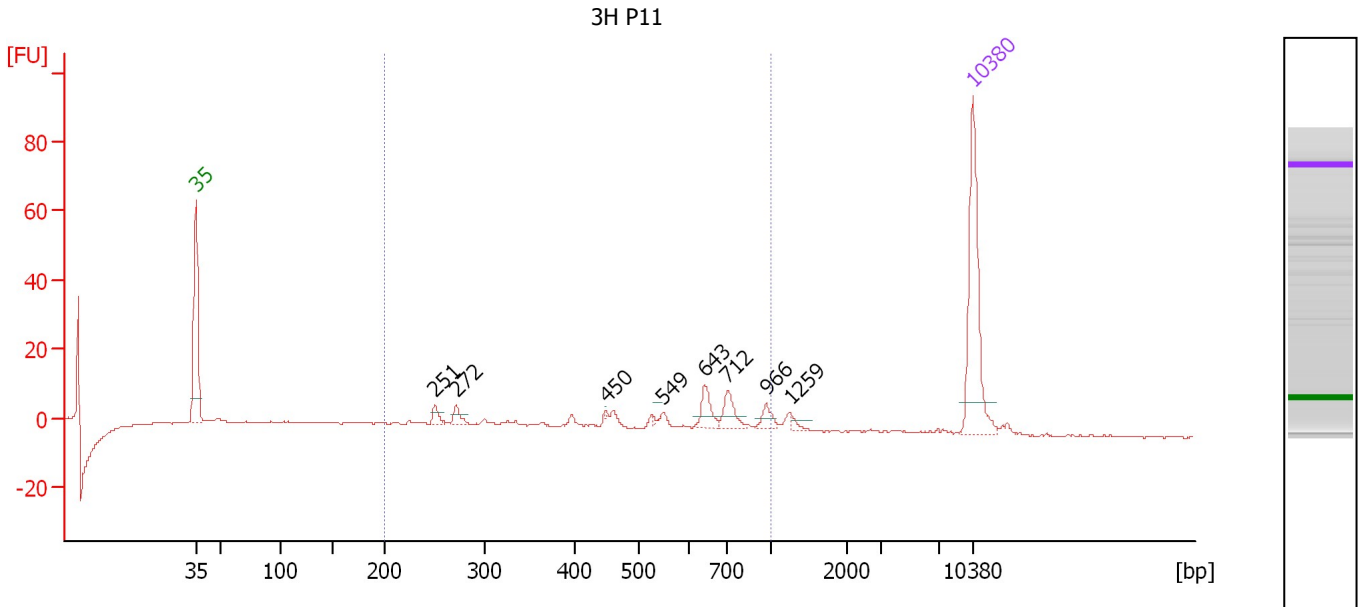
**Region table for sample 1 : 3M P11**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
261	1,573	680	106.6	141.10	400.3	84	40.1
618	1,474	832	59.9	74.54	143.9	47	25.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3H P11**

Number of peaks found: 8                      Corr. Area 1: 72.1  
 Noise: 0.3

**Peak table for sample 2 : 3H P11**

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	251	7.66	46.3		64.51
3	272	8.50	47.4		66.43
4	450	0.46	1.5		79.92
5	549	0.94	2.6		85.06
6	643	15.85	37.4		88.80
7	712	15.99	34.0		90.87
8	966	8.62	13.5		94.32
9	1,259	3.53	4.3		96.53
10	10,380	75.00	10.9	Upper Marker	113.00

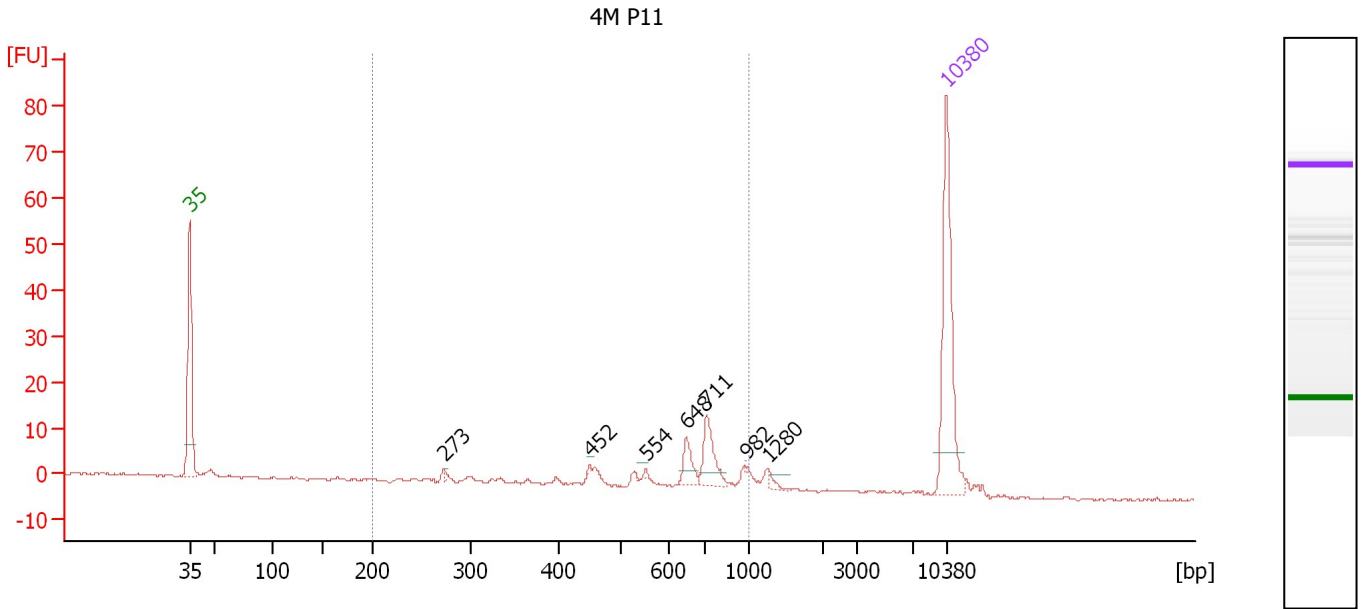
**Region table for sample 2 : 3H P11**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	591	72.1	89.75	293.6	68	34.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 4M P11**

Number of peaks found: 7                      Corr. Area 1: 65.9  
 Noise: 0.2

**Peak table for sample 3 : 4M P11**

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	273	1.37	7.6		66.53
3	452	0.78	2.6		80.05
4	554	1.52	4.2		85.28
5	648	14.48	33.9		88.98
6	711	26.03	55.5		90.85
7	982	0.32	0.5		94.55
8	1,280	2.45	2.9		96.67
9	10,380	75.00	10.9	Upper Marker	113.00

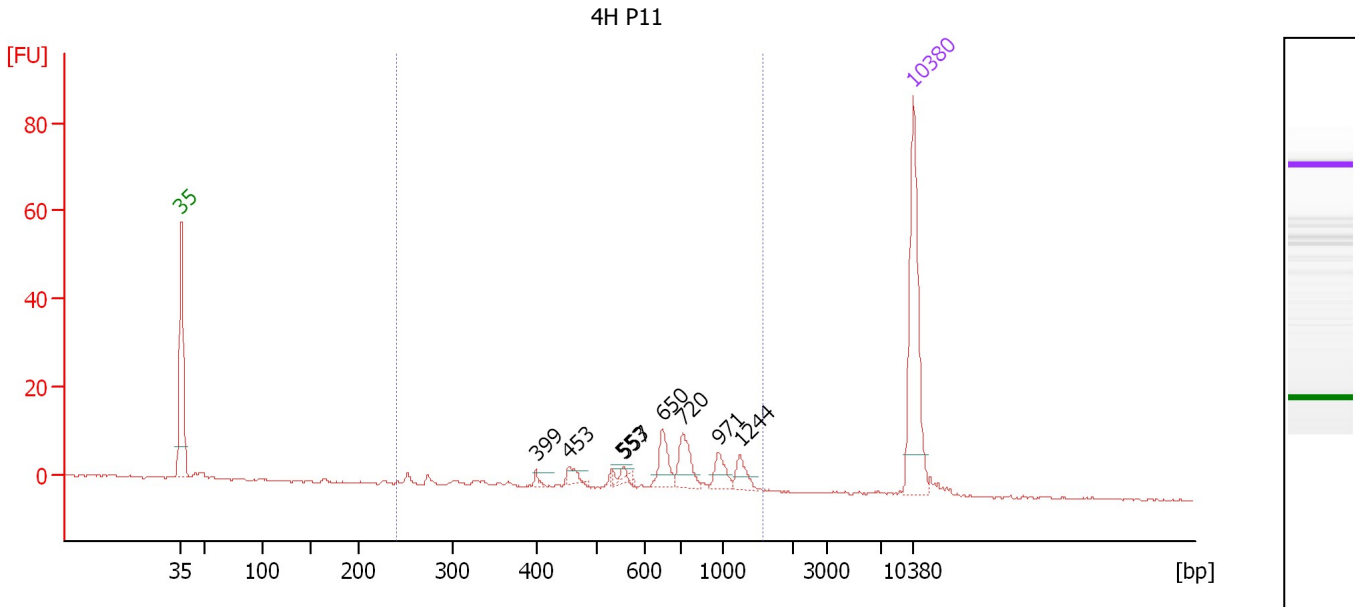
**Region table for sample 3 : 4M P11**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	622	65.9	91.02	266.6	78	29.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4H P11**

Number of peaks found: 8                      Corr. Area 1: 84.9  
 Noise: 0.2

**Peak table for sample 4 : 4H P11**

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	399	2.79	10.6		76.95
3	453	6.26	20.9		80.12
4	553	4.38	12.0		85.27
5	557	5.31	14.4		85.42
6	650	19.40	45.2		89.04
7	720	22.84	48.1		90.98
8	971	12.08	18.9		94.39
9	1,244	10.40	12.7		96.43
10	10,380	75.00	10.9	Upper Marker	113.00

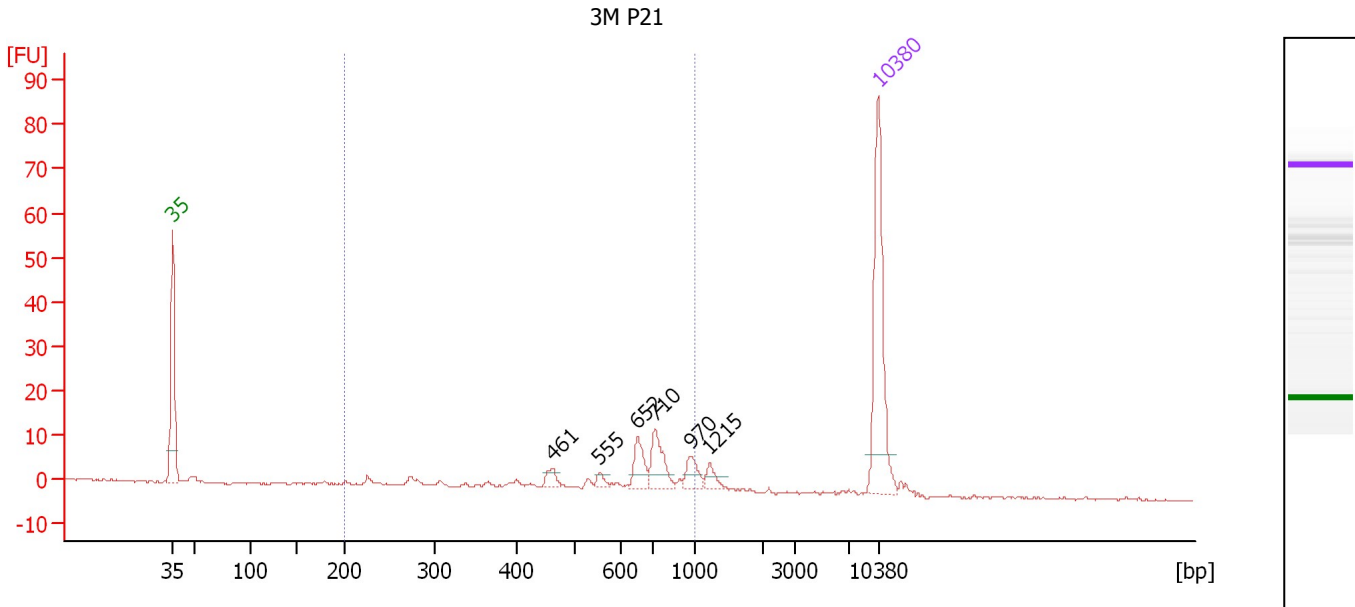
**Region table for sample 4 : 4H P11**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
241	1,576	750	84.9	108.63	274.0	85	37.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3M P21**

Number of peaks found: 6                      Corr. Area 1: 78.8  
 Noise: 0.2

**Peak table for sample 5 : 3M P21**

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	461	7.44	24.4		80.59
3	555	4.49	12.3		85.35
4	652	17.37	40.4		89.10
5	710	24.65	52.6		90.85
6	970	11.38	17.8		94.39
7	1,215	7.09	8.8		96.24
8	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 5 : 3M P21**

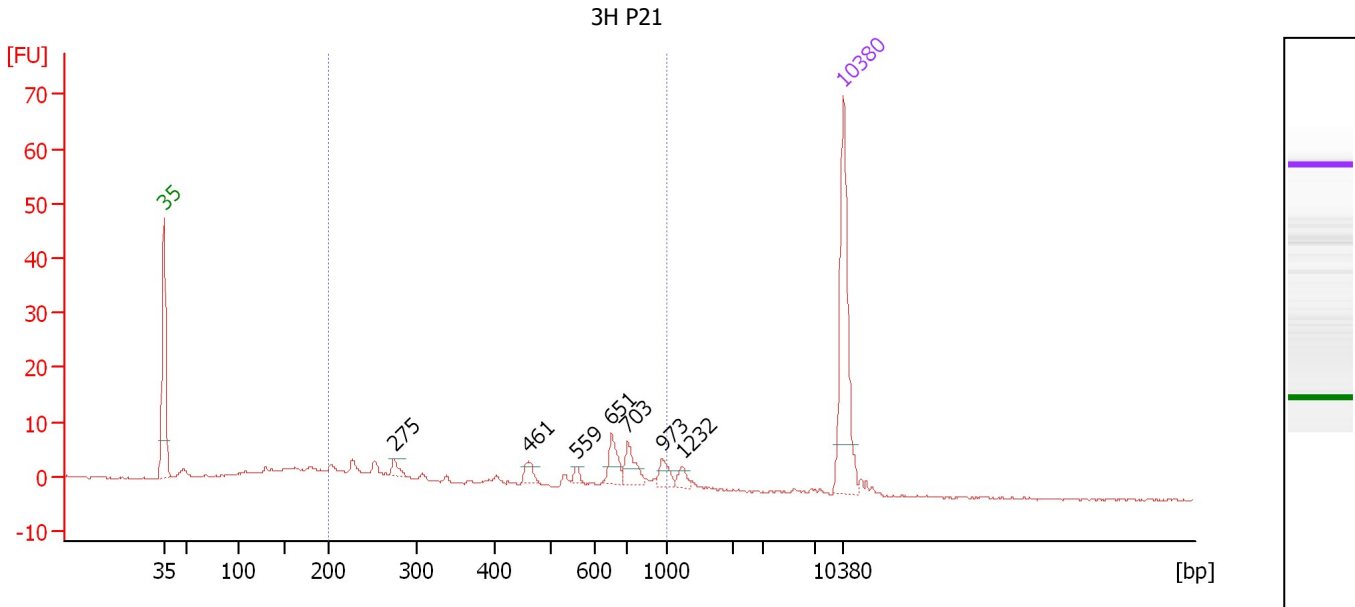
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	634	78.8	100.54	294.5	77	30.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 3H P21**

Number of peaks found: 7                      Corr. Area 1: 86.6  
 Noise: 0.2

**Peak table for sample 6 : 3H P21**

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	275	7.68	42.4		66.68
3	461	9.14	30.0		80.58
4	559	3.89	10.5		85.53
5	651	17.05	39.7		89.10
6	703	17.34	37.4		90.75
7	973	9.55	14.9		94.43
8	1,232	5.84	7.2		96.35
9	10,380	75.00	10.9	Upper Marker	113.00

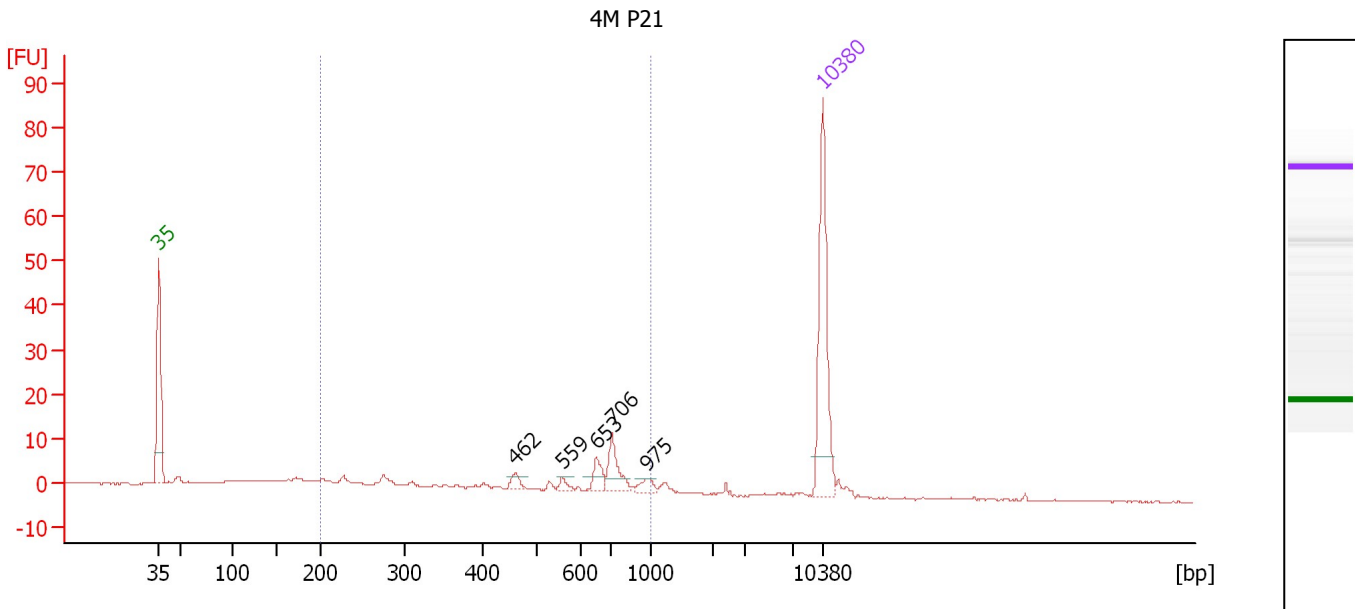
**Region table for sample 6 : 3H P21**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	514	86.6	158.54	660.8	61	45.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 4M P21**

Number of peaks found: 5                      Corr. Area 1: 75.1  
 Noise: 0.2

**Peak table for sample 7 : 4M P21**

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	462	6.69	22.0		80.61
3	559	4.39	11.9		85.51
4	653	11.49	26.6		89.16
5	706	21.96	47.1		90.79
6	975	6.38	9.9		94.45
7	10,380	75.00	10.9	Upper Marker	113.00

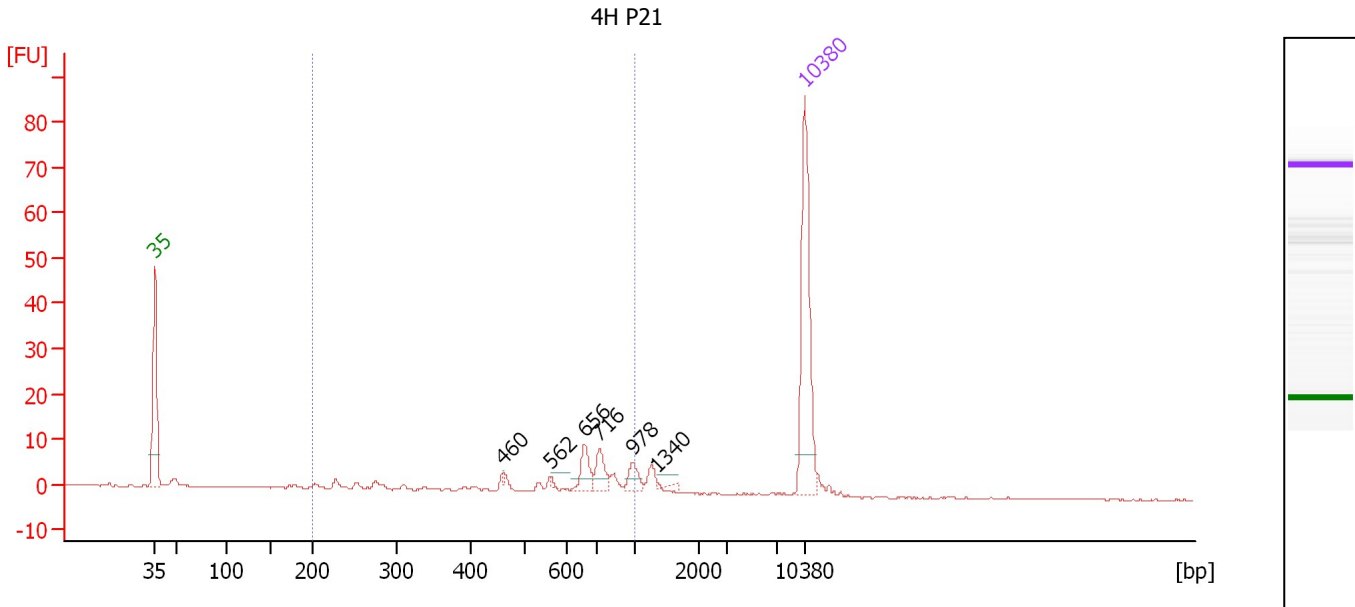
**Region table for sample 7 : 4M P21**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	544	75.1	110.35	416.9	61	39.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
 Modified: 3/19/2018 10:23:37 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 4H P21**

Number of peaks found: 6                      Corr. Area 1: 55.5  
 Noise: 0.1

**Peak table for sample 8 : 4H P21**

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	460	0.75	2.5		80.53
3	562	1.36	3.7		85.64
4	656	16.03	37.0		89.26
5	716	14.83	31.4		90.93
6	978	9.75	15.1		94.49
7	1,340	0.52	0.6		97.08
8	10,380	75.00	10.9	Upper Marker	113.00

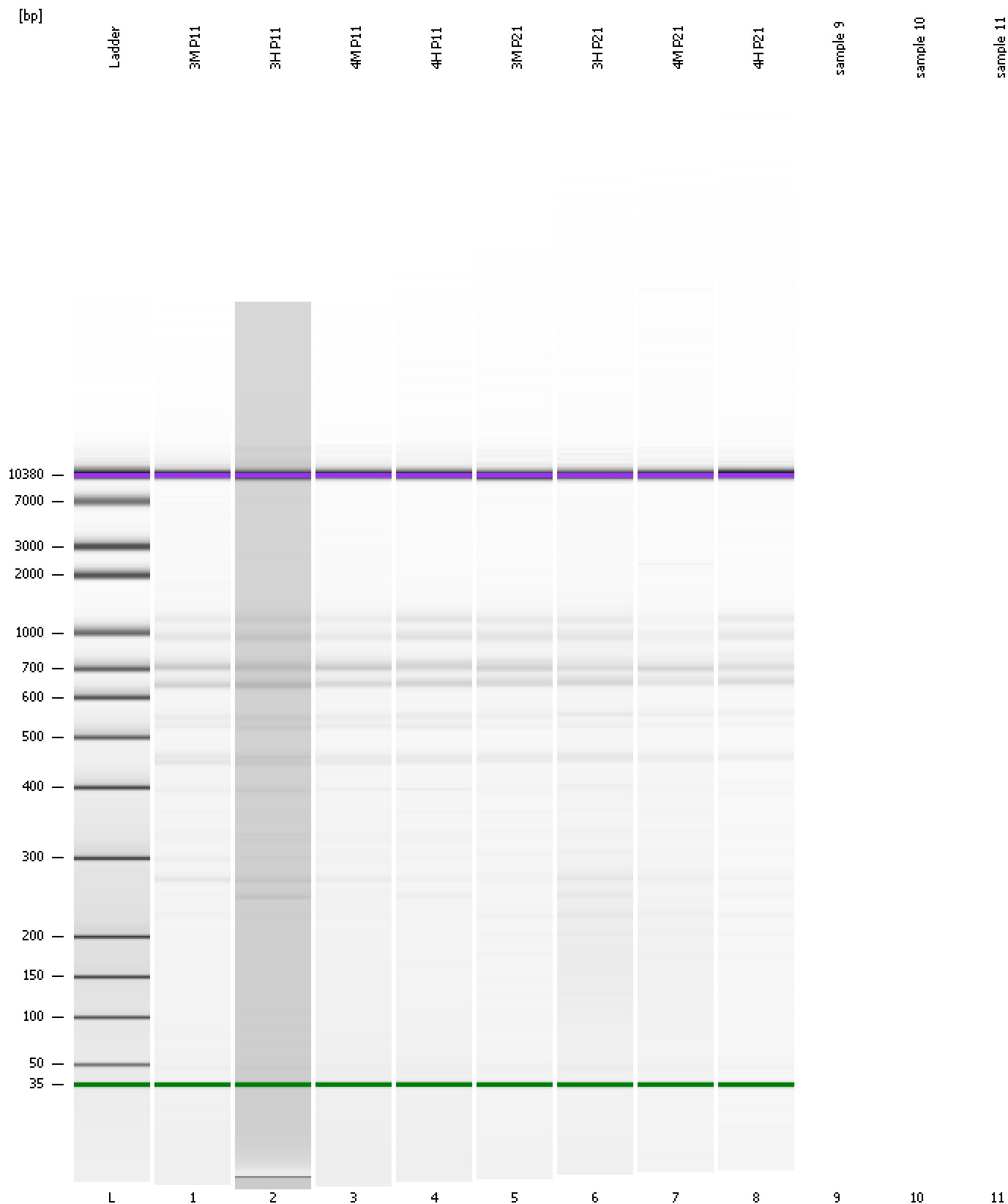
**Region table for sample 8 : 4H P21**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	638	55.5	74.70	226.2	72	31.6

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
Modified: 3/19/2018 10:23:37 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-19\2018-03-19\_001.xad

Created: 3/19/2018 9:40:02 AM  
Modified: 3/19/2018 10:23:37 AM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.