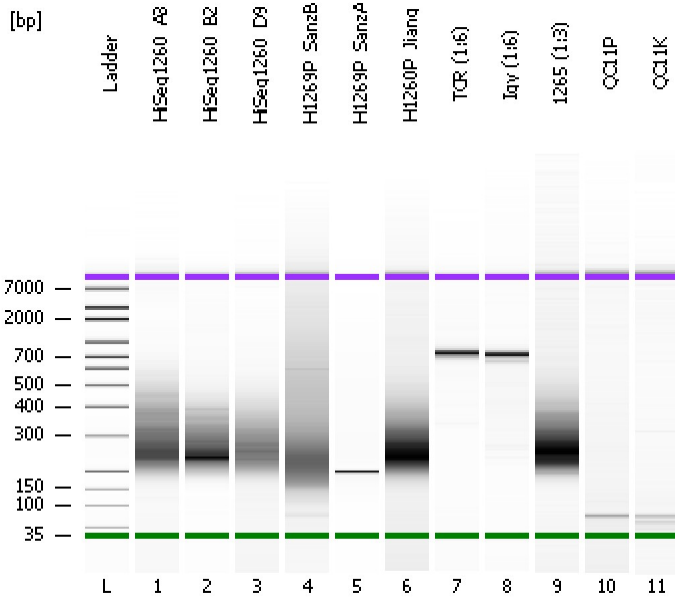


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
Modified: 1/16/2018 4:04:13 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

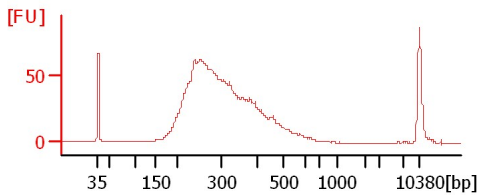
#### Assay Information:

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

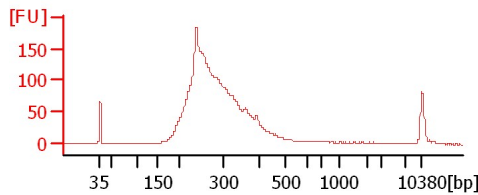
#### Chip Information:

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

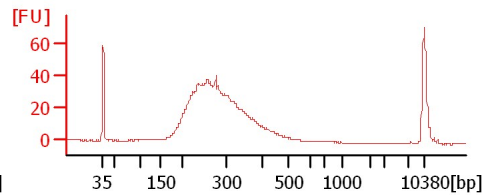
HiSeq1260\_A3



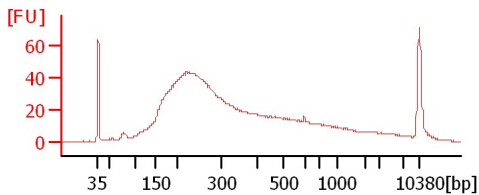
HiSeq1260\_B2



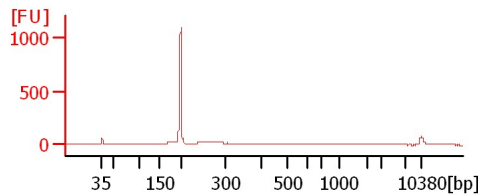
HiSeq1260\_D9



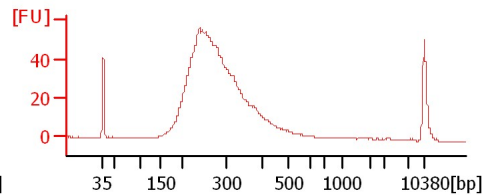
H1269P\_SanzB



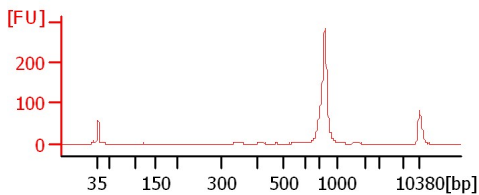
H1269P\_SanzA



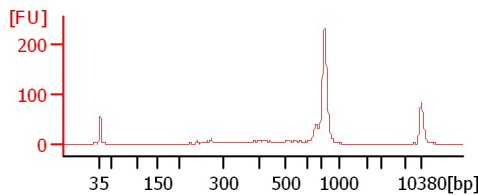
H1260P\_Jiang



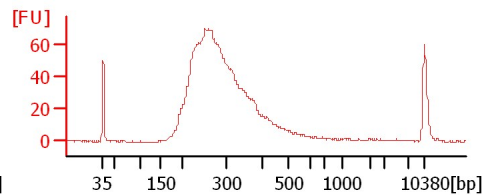
TCR (1:6)



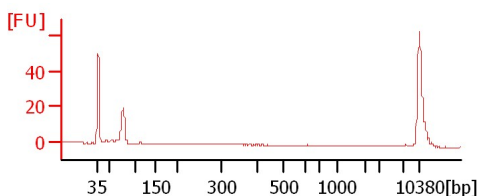
Igy (1:6)



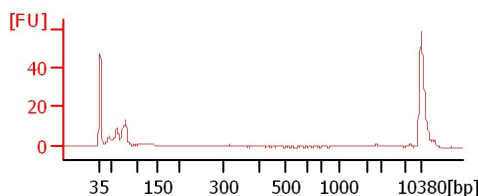
1265 (1:3)



QC11P



QC11K



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
Modified: 1/16/2018 4:04:13 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq1260_A3		<input type="checkbox"/>	✓			
HiSeq1260_B2		<input type="checkbox"/>	✓			
HiSeq1260_D9		<input type="checkbox"/>	✓			
H1269P_SanzB		<input type="checkbox"/>	✓			
H1269P_SanzA		<input type="checkbox"/>	✓			
H1260P_Jiang		<input type="checkbox"/>	✓			
TCR (1:6)		<input type="checkbox"/>	✓			
Igy (1:6)		<input type="checkbox"/>	✓			
1265 (1:3)		<input type="checkbox"/>	✓			
QC11P		<input type="checkbox"/>	✓			
QC11K		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

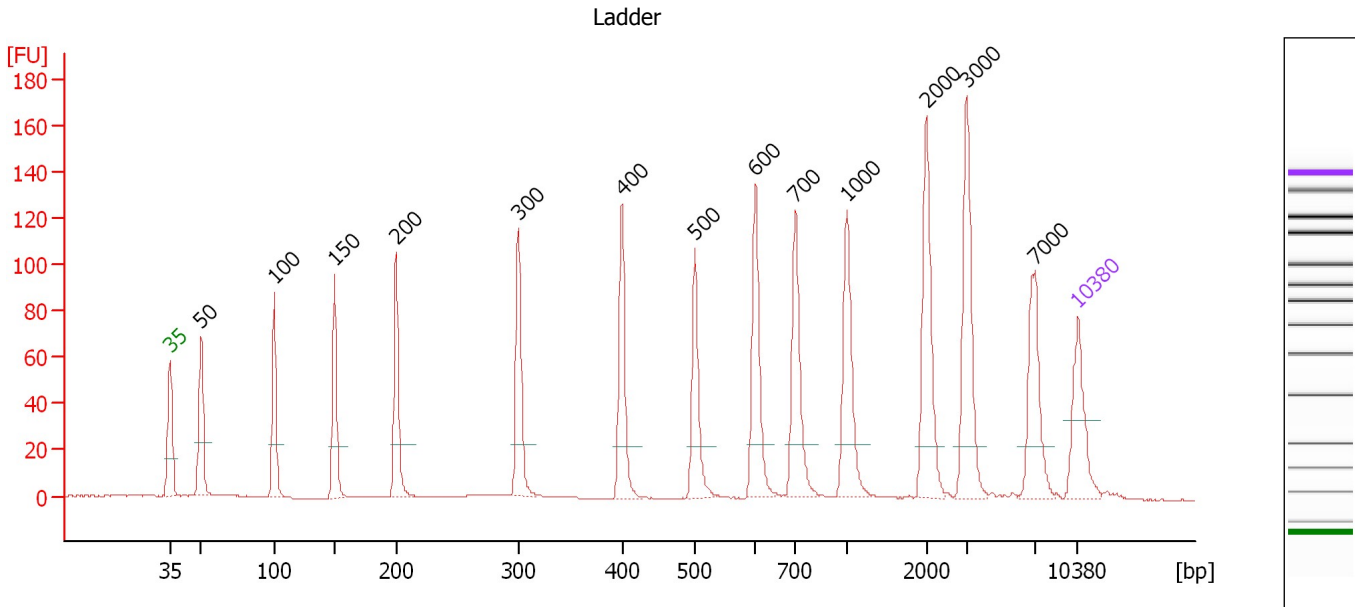
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

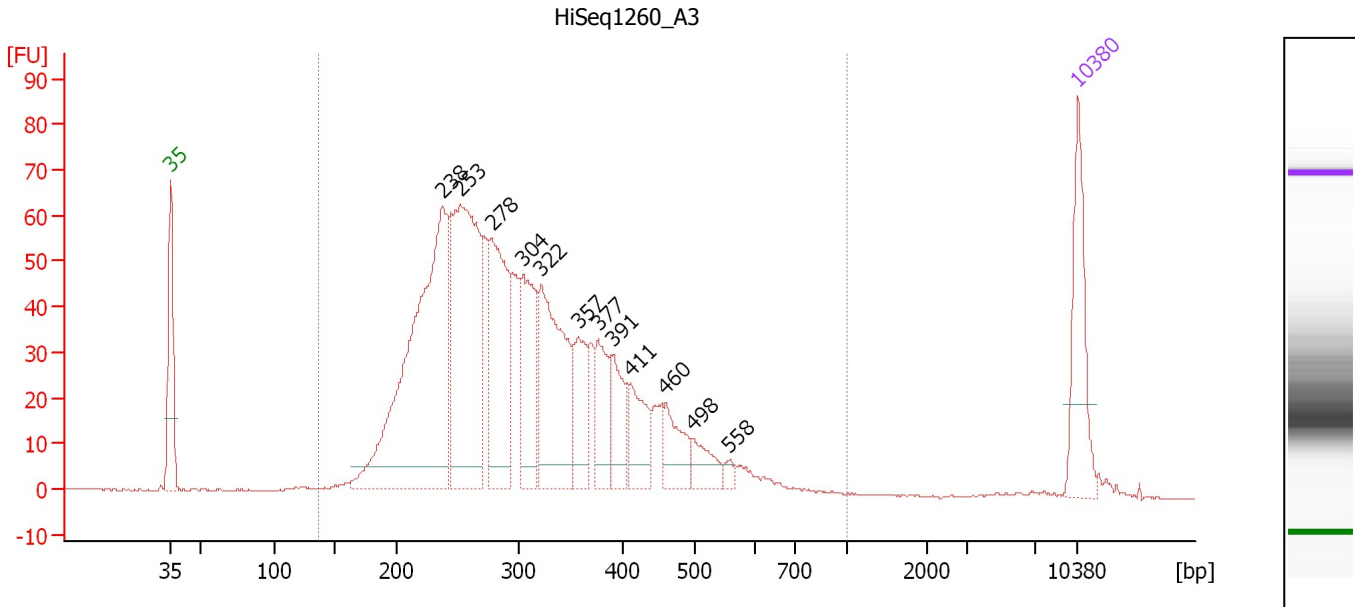
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.36
3	100	150.00	2,272.7	Ladder Peak	51.01
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.42
6	300	150.00	757.6	Ladder Peak	69.87
7	400	150.00	568.2	Ladder Peak	77.83
8	500	150.00	454.5	Ladder Peak	83.43
9	600	150.00	378.8	Ladder Peak	88.11
10	700	150.00	324.7	Ladder Peak	91.19
11	1,000	150.00	227.3	Ladder Peak	95.15
12	2,000	150.00	113.6	Ladder Peak	101.28
13	3,000	150.00	75.8	Ladder Peak	104.36
14	7,000	150.00	32.5	Ladder Peak	109.62
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HiSeq1260 A3**

Number of peaks found: 12                      Corr. Area 1: 1,418.7  
 Noise: 0.2

**Peak table for sample 1 : HiSeq1260 A3**

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	238	501.15	3,190.3		64.01
3	253	350.45	2,099.9		65.41
4	278	192.06	1,047.0		67.79
5	304	130.26	648.8		70.21
6	322	201.80	950.0		71.61
7	357	70.32	298.4		74.42
8	377	63.81	256.3		76.02
9	391	59.33	229.8		77.13
10	411	60.24	222.2		78.44
11	460	47.33	155.9		81.20
12	498	30.97	94.2		83.33
13	558	7.45	20.2		86.13
14	10,380	75.00	10.9	Upper Marker	113.00

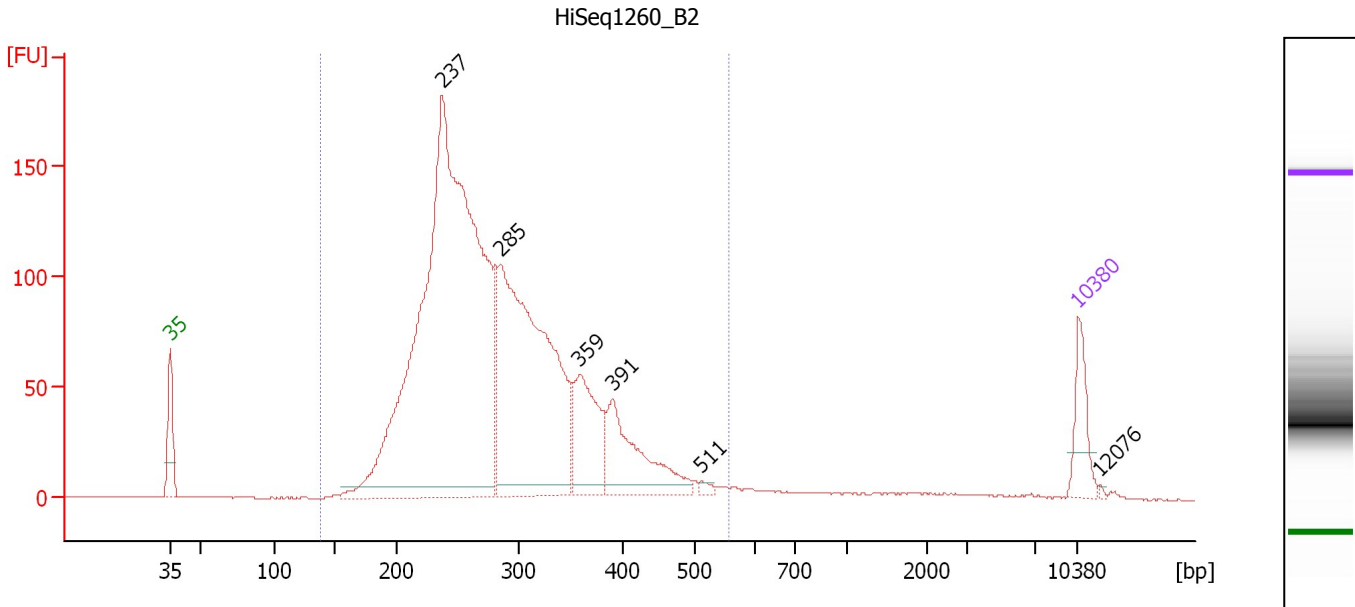
**Region table for sample 1 : HiSeq1260 A3**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
137	1,000	316	1,418.7	2,071.04	11,050.2	98	30.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HiSeq1260 B2**

Number of peaks found: 6                      Corr. Area 1: 2,547.2  
 Noise: 0.2

**Peak table for sample 2 : HiSeq1260 B2**

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	237	2,463.37	15,715.3		63.96
3	285	1,081.42	5,757.2		68.41
4	359	237.62	1,003.0		74.56
5	391	242.64	939.8		77.13
6	511	9.25	27.4		83.95
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,076	0.00	0.0		114.69

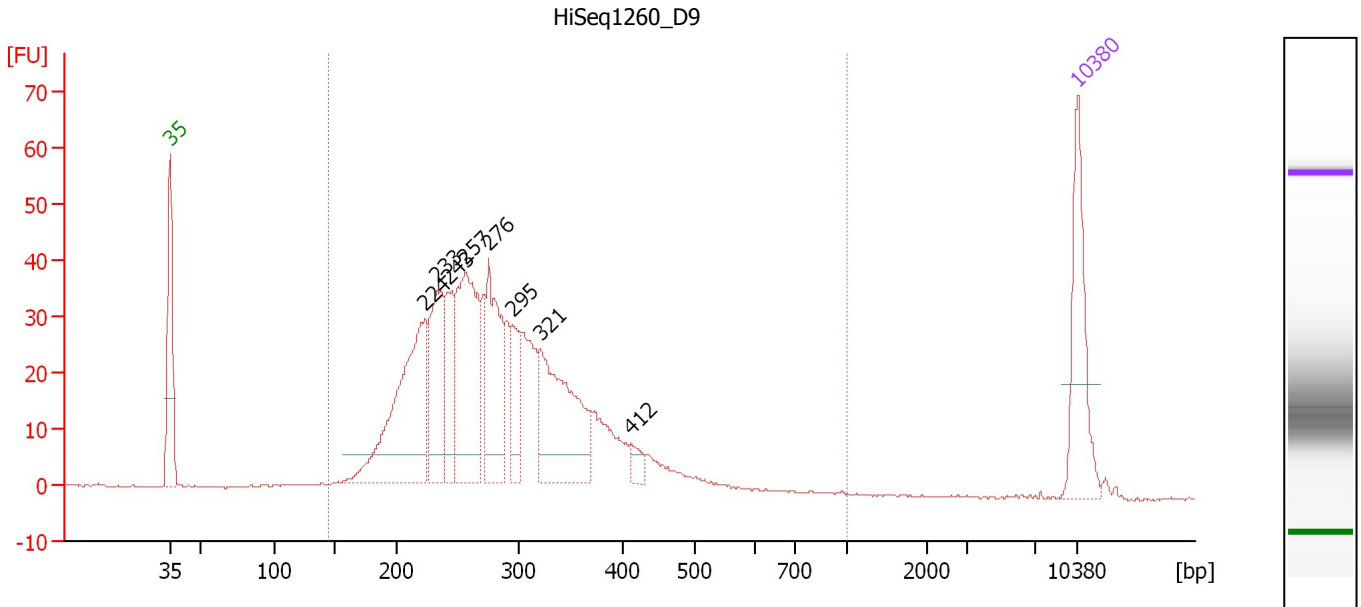
**Region table for sample 2 : HiSeq1260 B2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
138	556	288	2,547.2	4,098.63	22,951.5	97	23.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HiSeq1260\_D9**

Number of peaks found: 8                      Corr. Area 1: 769.9  
 Noise: 0.2

**Peak table for sample 3 : HiSeq1260\_D9**

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	224	235.67	1,597.1		62.64
3	233	122.04	792.3		63.57
4	243	66.92	417.9		64.45
5	257	195.70	1,155.7		65.76
6	276	135.30	743.7		67.57
7	295	47.98	246.7		69.37
8	321	170.69	806.5		71.52
9	412	13.77	50.7		78.49
10	10,380	75.00	10.9	Upper Marker	113.00

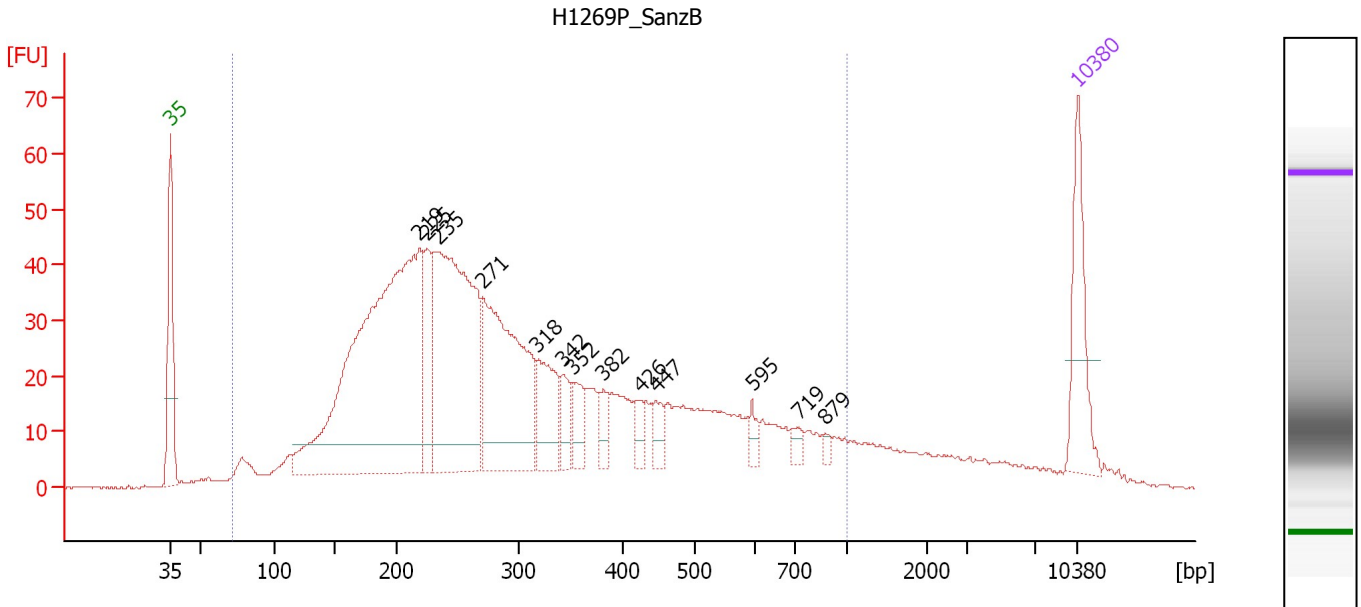
**Region table for sample 3 : HiSeq1260\_D9**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
145	1,000	290	769.9	1,340.20	7,541.6	99	26.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : H1269P\_SanzB**

Number of peaks found: 13                      Corr. Area 1: 1,417.7  
 Noise: 0.2

**Peak table for sample 4 : H1269P\_SanzB**

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	219	768.97	5,323.2		62.20
3	225	86.26	580.3		62.80
4	235	431.33	2,784.1		63.70
5	271	306.23	1,714.0		67.10
6	318	85.56	407.7		71.30
7	342	30.81	136.3		73.25
8	352	35.44	152.3		74.05
9	382	20.58	81.6		76.40
10	426	20.82	74.0		79.30
11	447	22.10	75.0		80.45
12	595	14.72	37.5		87.85
13	719	12.08	25.4		91.45
14	879	6.46	11.1		93.55
15	10,380	75.00	10.9	Upper Marker	113.00

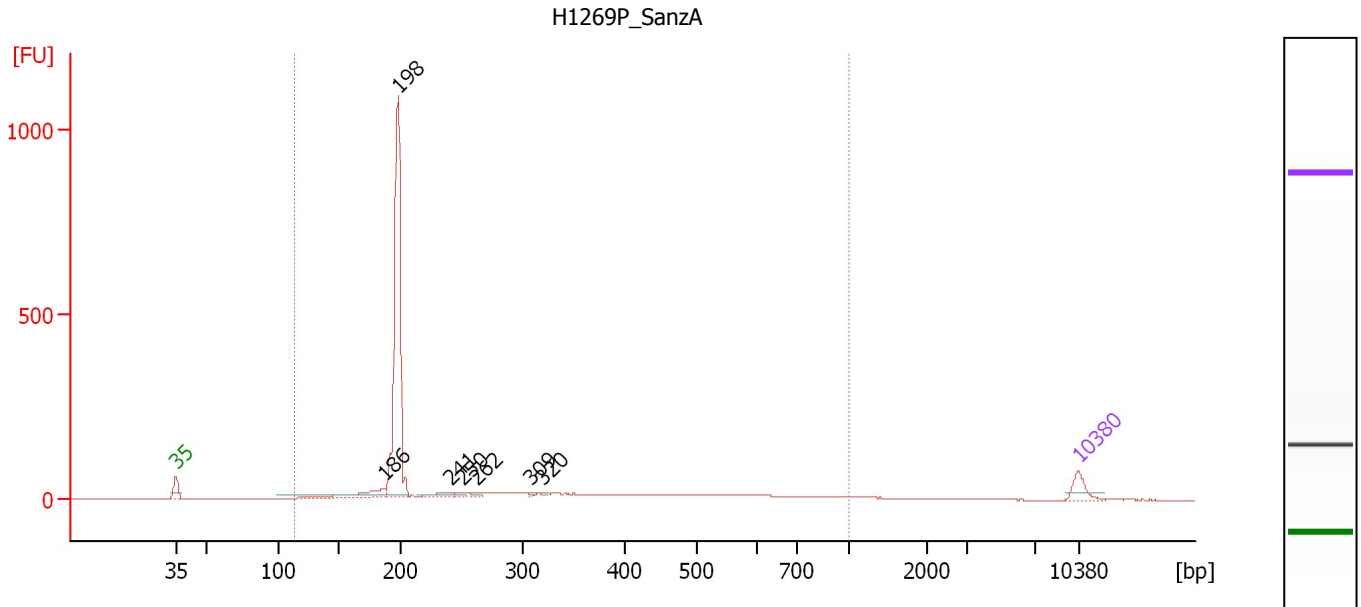
**Region table for sample 4 : H1269P\_SanzB**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
71	1,000	331	1,417.7	2,761.24	17,641.2	90	52.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : H1269P\_SanzaA**

Number of peaks found: 7                      Corr. Area 1: 1,874.4  
 Noise: 0.2

**Peak table for sample 5 : H1269P\_SanzaA**

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	186	203.06	1,651.1		59.11
3	198	1,837.09	14,052.1		60.23
4	241	58.30	366.2		64.31
5	250	27.96	169.2		65.18
6	262	25.93	150.1		66.25
7	309	10.13	49.7		70.58
8	320	9.08	43.0		71.50
9	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 5 : H1269P\_SanzaA**

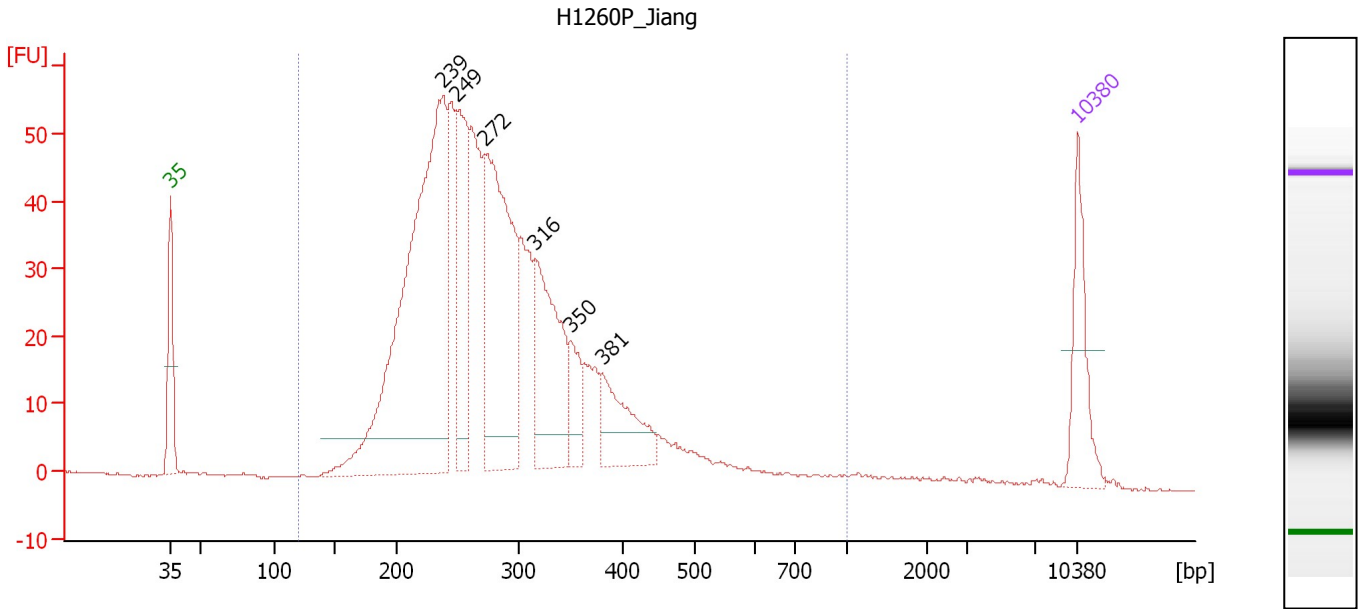
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
112	1,000	287	1,874.4	3,226.53	21,950.8	94	55.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : H1260P\_Jiang**

Number of peaks found: 6                      Corr. Area 1: 1,067.8  
 Noise: 0.2

**Peak table for sample 6 : H1260P\_Jiang**

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	239	820.87	5,214.7		64.06
3	249	214.40	1,302.7		65.08
4	272	405.41	2,256.8		67.24
5	316	223.79	1,073.0		71.14
6	350	55.10	238.9		73.81
7	381	107.23	427.0		76.28
8	10,380	75.00	10.9	Upper Marker	113.00

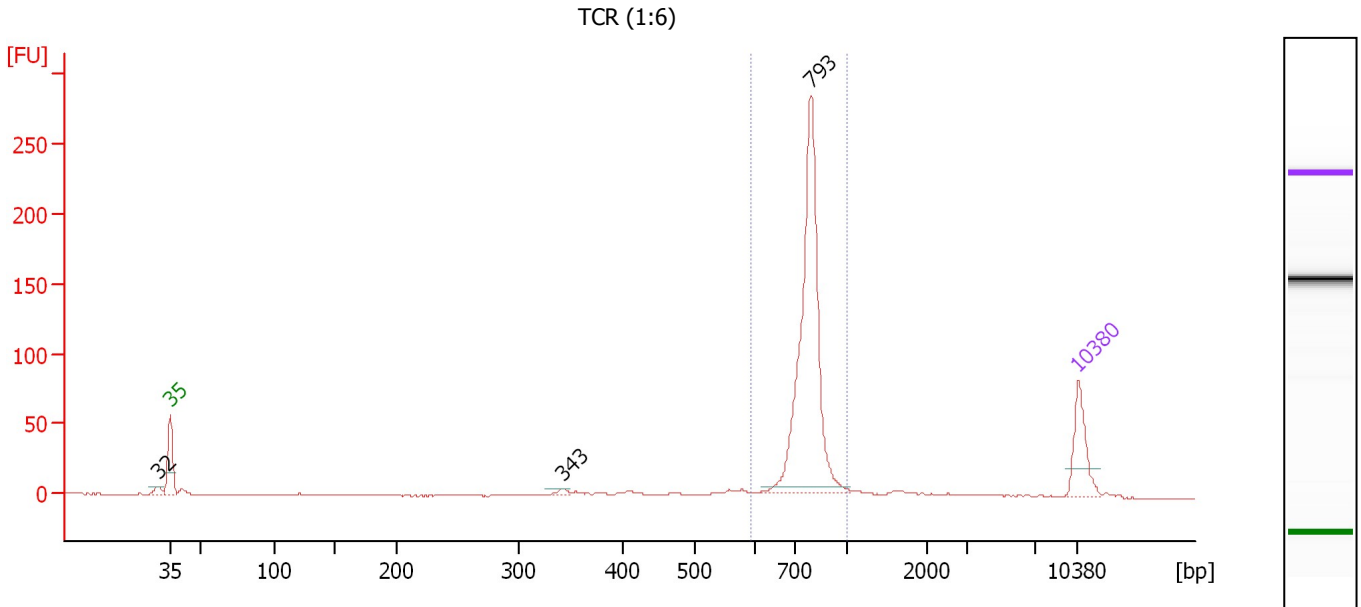
**Region table for sample 6 : H1260P\_Jiang**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
121	1,000	297	1,067.8	2,645.06	14,920.2	96	33.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : TCR (1:6)**

Number of peaks found: 3                      Corr. Area 1: 474.0  
 Noise: 0.2

**Peak table for sample 7 : TCR (1:6)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.01
2	35	125.00	5,411.3	Lower Marker	43.00
3	343	9.69	42.9		73.26
4	793	562.33	1,073.8		92.43
5	10,380	75.00	10.9	Upper Marker	113.00

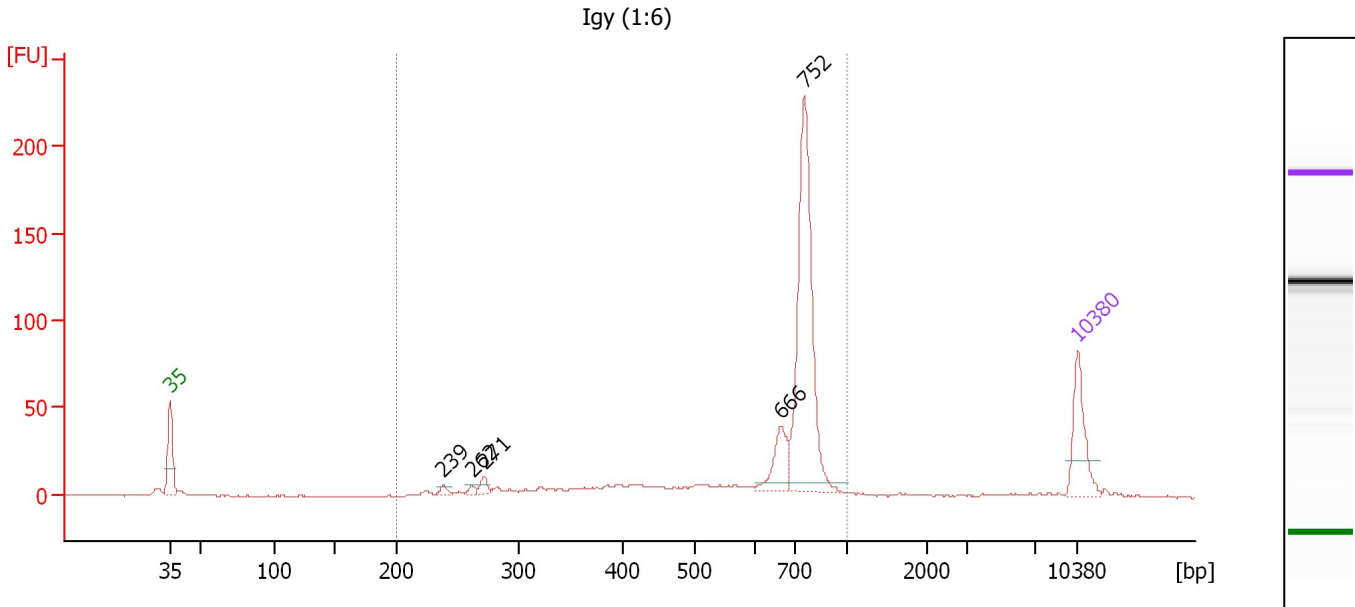
**Region table for sample 7 : TCR (1:6)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
592	1,000	777	474.0	600.24	1,174.8	79	8.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Igy (1:6)**

Number of peaks found: 5                      Corr. Area 1: 556.4  
 Noise: 0.3

**Peak table for sample 8 : Igy (1:6)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	239	10.11	64.2		64.07
3	262	7.89	45.6		66.28
4	271	16.07	89.7		67.18
5	666	69.76	158.7		90.14
6	752	410.79	827.8		91.88
7	10,380	75.00	10.9	Upper Marker	113.00

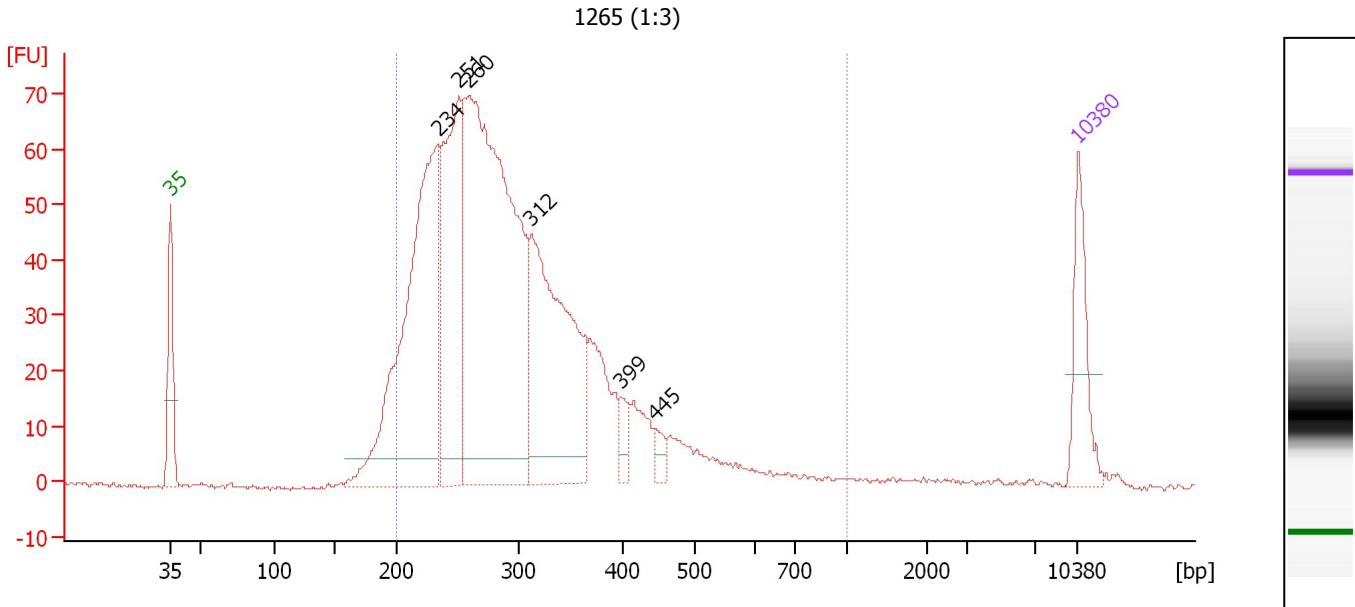
**Region table for sample 8 : Igy (1:6)**

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	657	556.4	758.02	2,085.9	91	25.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 1265 (1:3)**

Number of peaks found: 6                      Corr. Area 1: 1,239.7  
 Noise: 0.4

**Peak table for sample 9 : 1265 (1:3)**

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	234	642.61	4,157.6		63.65
3	251	377.54	2,278.0		65.25
4	260	951.25	5,552.4		66.05
5	312	433.32	2,102.2		70.85
6	399	27.96	106.0		77.79
7	445	19.41	66.1		80.35
8	10,380	75.00	10.9	Upper Marker	113.00

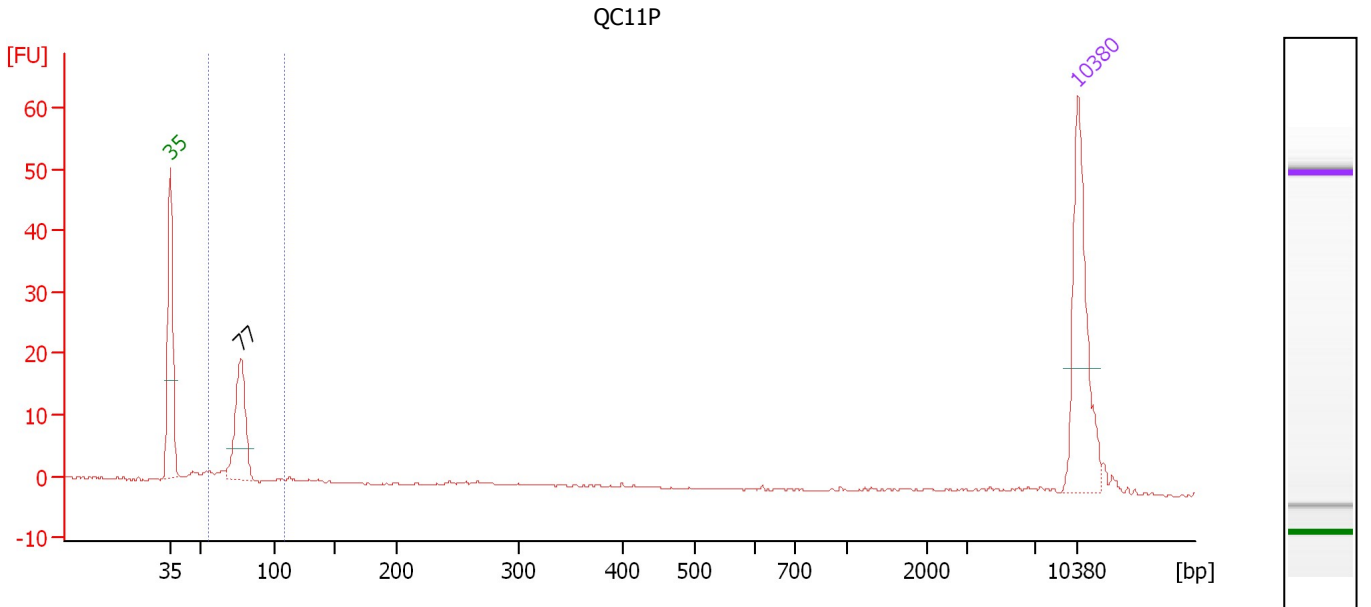
**Region table for sample 9 : 1265 (1:3)**

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	304	1,239.7	2,586.81	13,926.3	95	29.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : QC11P**

Number of peaks found: 1                      Corr. Area 1: 40.5  
 Noise: 0.2

**Peak table for sample 10 : QC11P**

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	77	85.02	1,672.6		48.41
3	10,380	75.00	10.9	Upper Marker	113.00

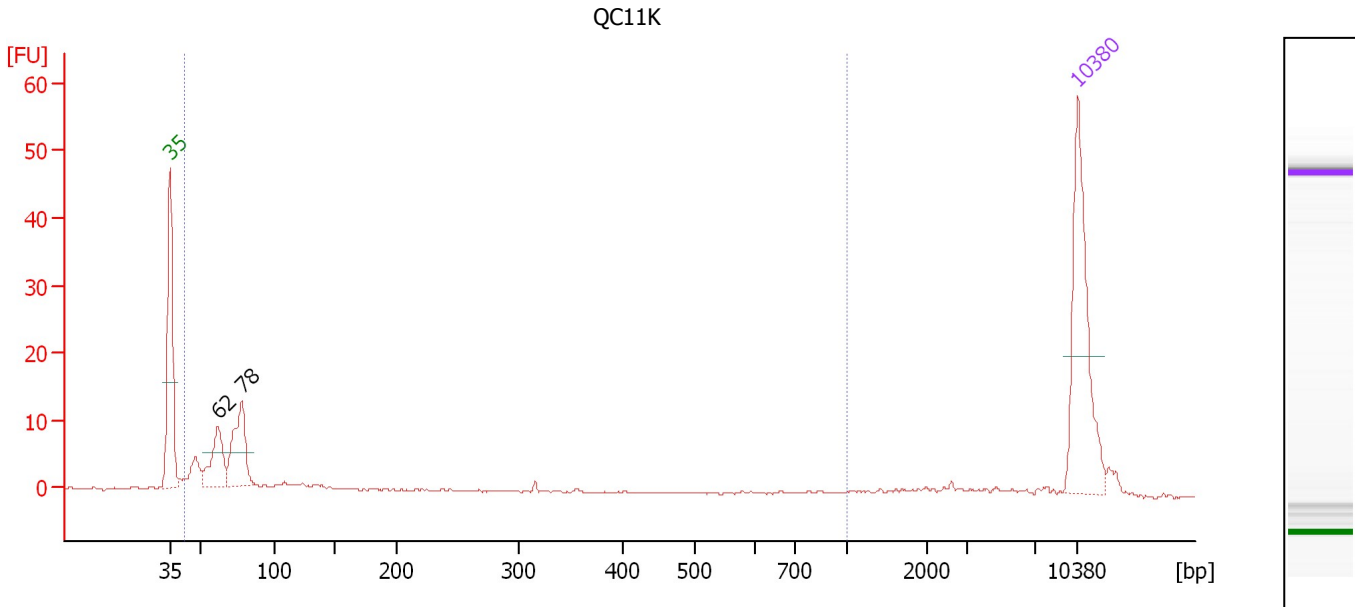
**Region table for sample 10 : QC11P**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
56	108	75	40.5	92.20	1,852.0	77	7.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
 Modified: 1/16/2018 4:04:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : QC11K**

Number of peaks found: 2                      Corr. Area 1: 68.7  
 Noise: 0.1

**Peak table for sample 11 : QC11K**

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	62	43.64	1,073.6		46.67
3	78	62.36	1,213.4		48.51
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : QC11K**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
42	1,000	108	68.7	159.98	3,459.3	79	100.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-16\2018-01-16\_001.xad

Created: 1/16/2018 3:20:17 PM  
Modified: 1/16/2018 4:04:13 PM

**Gel Image**

