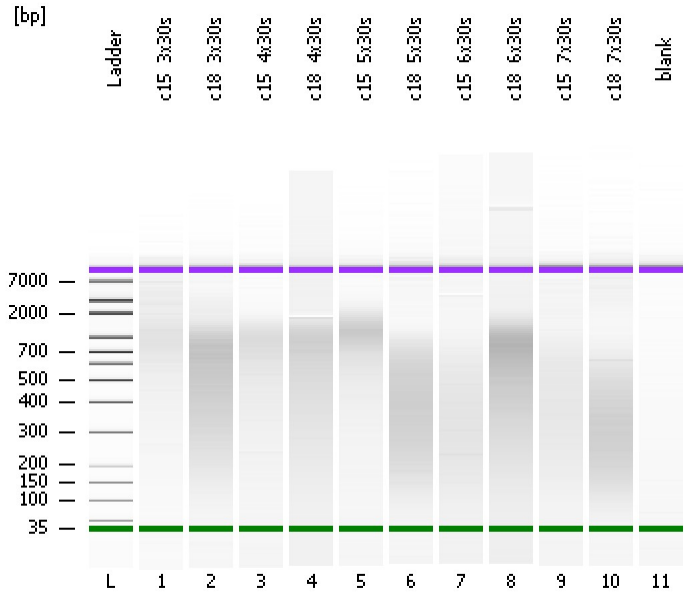
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electrophoresis File Run Summary



Instrument Information:

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

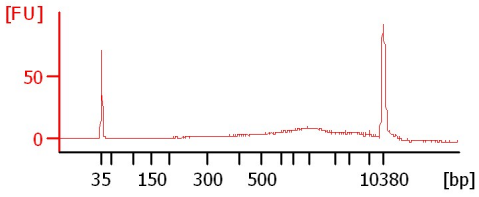
Assay Information:

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

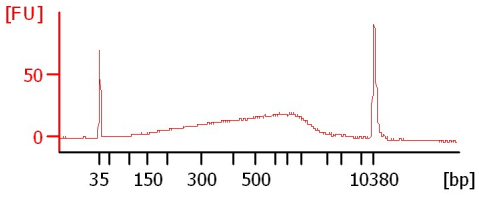
Chip Information:

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

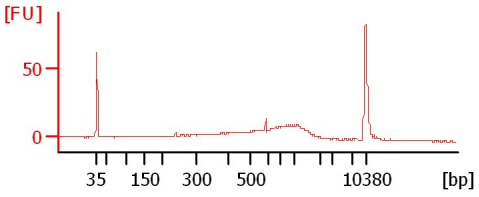
c15_3x30s



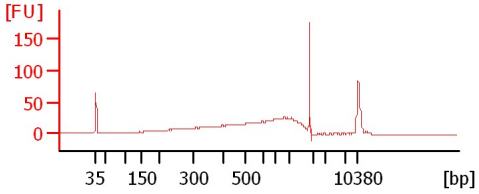
c18_3x30s



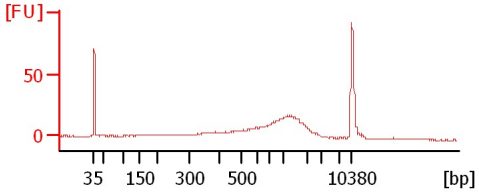
c15_4x30s



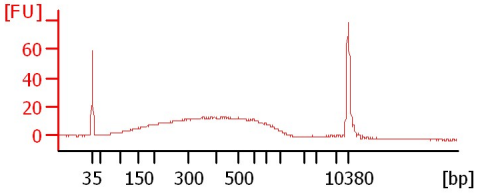
c18_4x30s



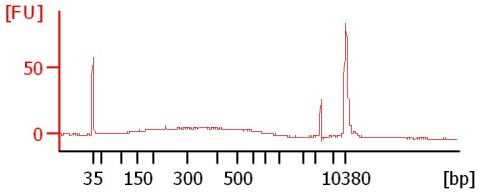
c15_5x30s



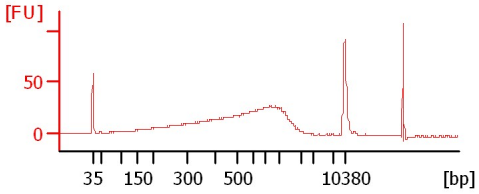
c18_5x30s



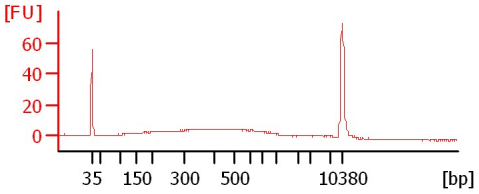
c15_6x30s



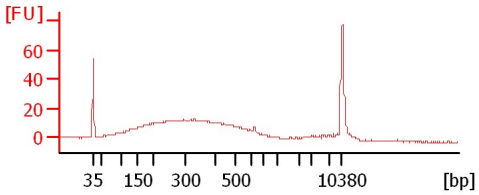
c18_6x30s



c15_7x30s



c18_7x30s



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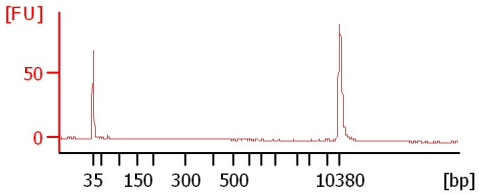


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
c15_3x30s		☐	✔			
c18_3x30s		☐	✔			
c15_4x30s		☐	✔			
c18_4x30s		☐	✔			
c15_5x30s		☐	✔			
c18_5x30s		☐	✔			
c15_6x30s		☐	✔			
c18_6x30s		☐	✔			
c15_7x30s		☐	✔			
c18_7x30s		☐	✔			
blank		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

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

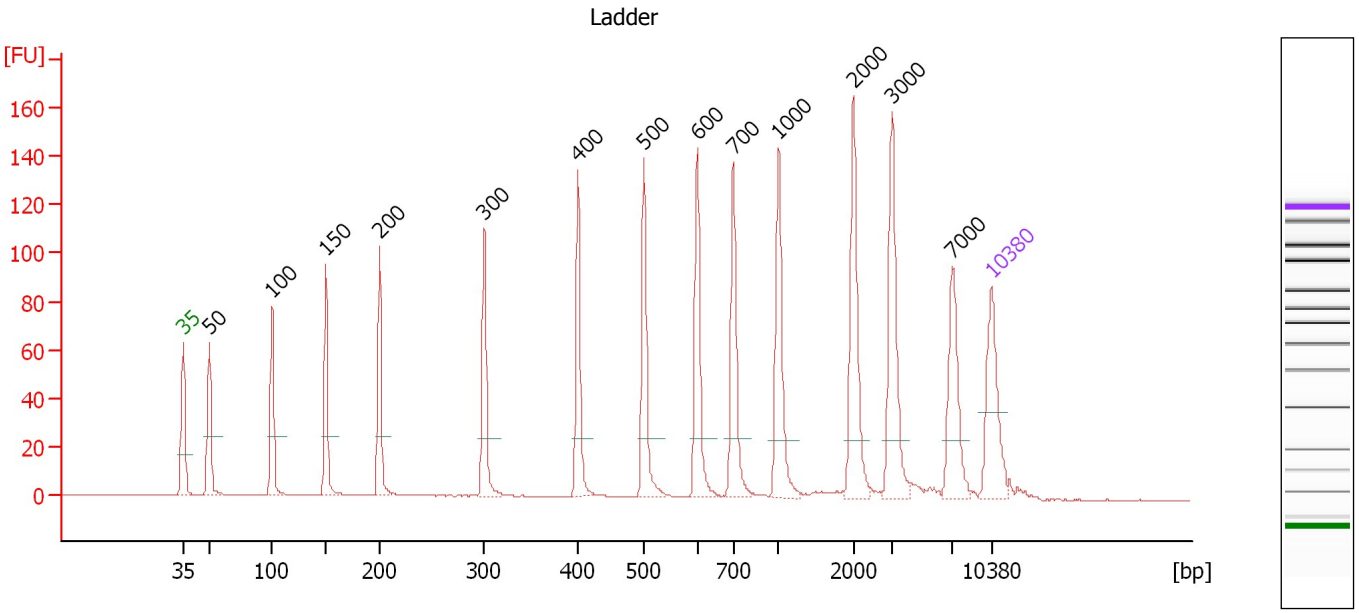
Ladder

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:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

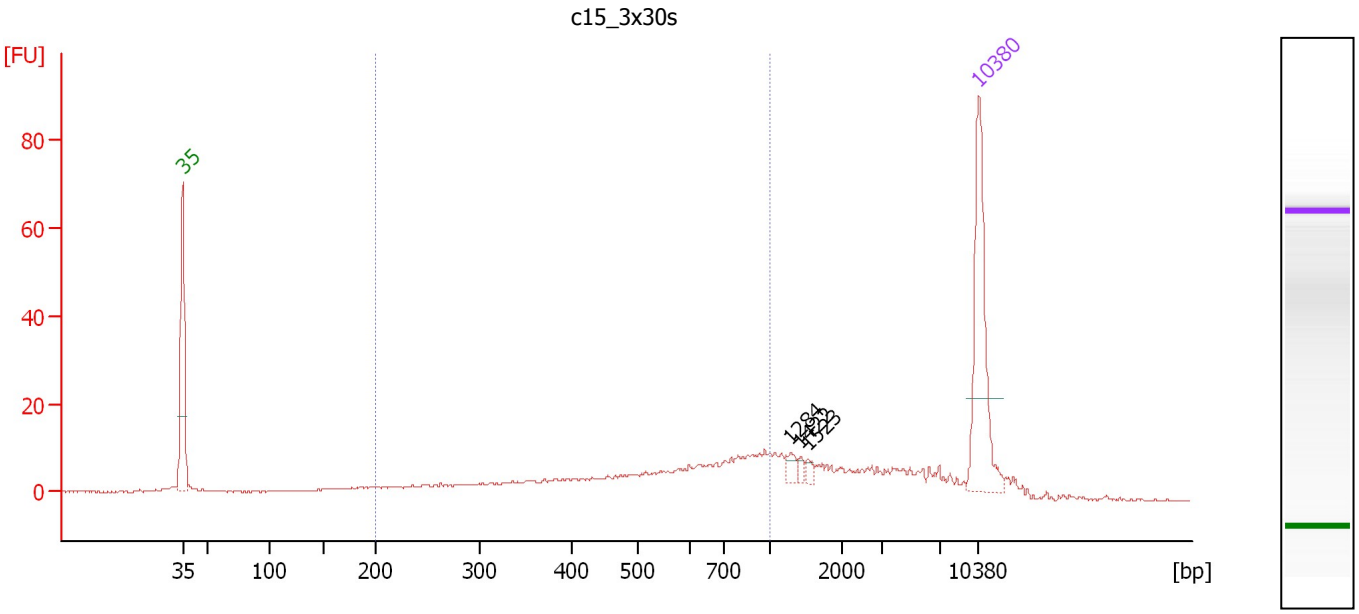
Peak table for Ladder

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		50	150.00	4,545.5	Ladder Peak
3		100	150.00	2,272.7	Ladder Peak
4		150	150.00	1,515.2	Ladder Peak
5		200	150.00	1,136.4	Ladder Peak
6		300	150.00	757.6	Ladder Peak
7		400	150.00	568.2	Ladder Peak
8		500	150.00	454.5	Ladder Peak
9		600	150.00	378.8	Ladder Peak
10		700	150.00	324.7	Ladder Peak
11		1,000	150.00	227.3	Ladder Peak
12		2,000	150.00	113.6	Ladder Peak
13		3,000	150.00	75.8	Ladder Peak
14		7,000	150.00	32.5	Ladder Peak
15		10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : c15_3x30s

Number of peaks found:	3	Corr. Area 1:	190.9
Noise:	0.2		

Peak table for sample 1 : c15_3x30s

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,284	6.12	7.2	
3	1,422	3.67	3.9	
4	1,523	4.01	4.0	
5	10,380	75.00	10.9	Upper Marker

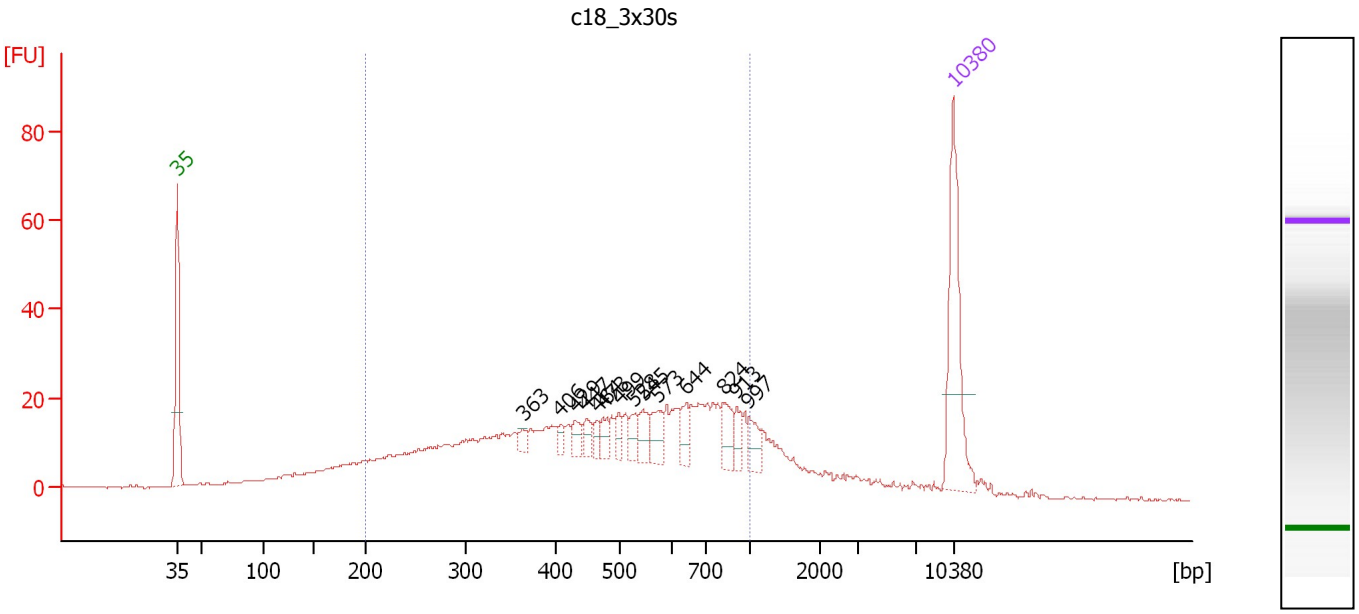
Region table for sample 1 : c15_3x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	555	787.1	225.93	190.9	55	37.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : c18_3x30s

Number of peaks found:	14	Corr. Area 1:	655.2
Noise:	0.1		

Peak table for sample 2 : c18_3x30s

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	363	7.19	30.0	
3	406	7.32	27.3	
4	429	11.16	39.4	
5	447	11.15	37.8	
6	464	8.02	26.2	
7	473	10.66	34.1	
8	499	10.30	31.3	
9	528	12.54	36.0	
10	545	17.16	47.7	
11	573	18.37	48.6	
12	644	14.59	34.3	
13	824	20.59	37.8	
14	913	11.49	19.1	
15	997	14.26	21.7	
16	10,380	75.00	10.9	Upper Marker

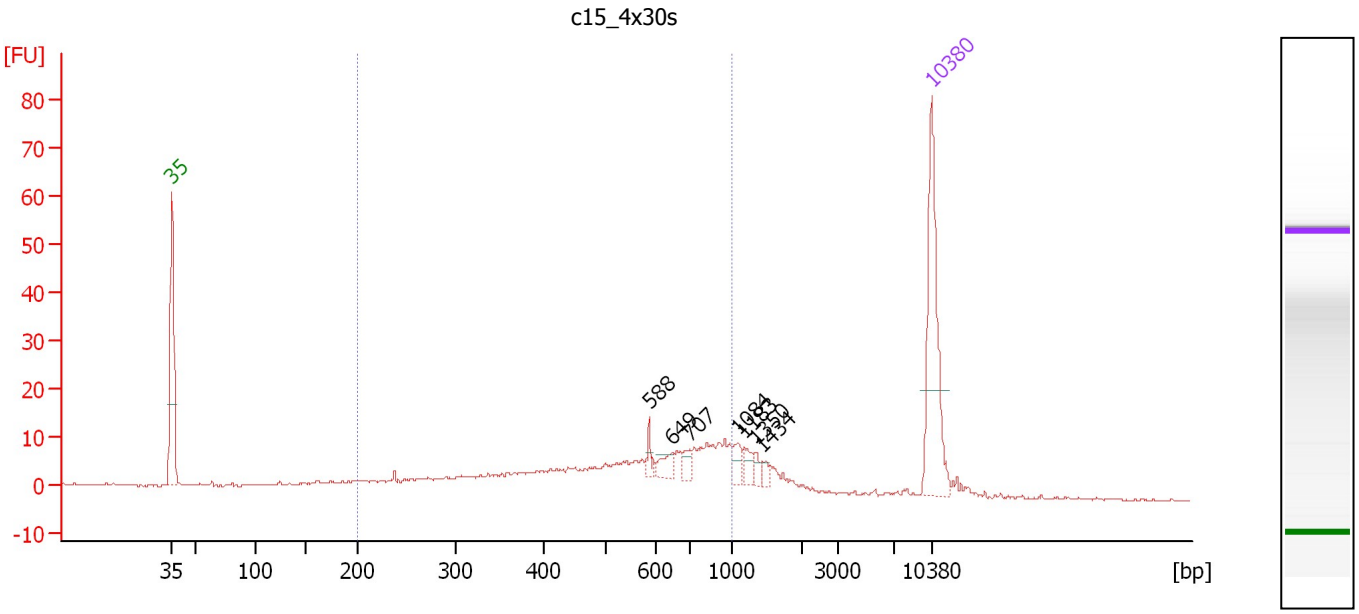
Region table for sample 2 : c18_3x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	499	3,206.6	838.39	655.2	75	39.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : c15_4x30s

Number of peaks found:	7	Corr. Area 1:	210.8
Noise:	0.2		

Peak table for sample 3 : c15_4x30s

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		588	6.36	16.4	
3		649	10.91	25.5	
4		707	8.28	17.7	
5		1,084	9.23	12.9	
6		1,183	7.78	10.0	
7		1,350	4.76	5.3	
8		1,434	5.23	5.5	
9	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : c15_4x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	554	1,052.6	303.72	210.8	70	37.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
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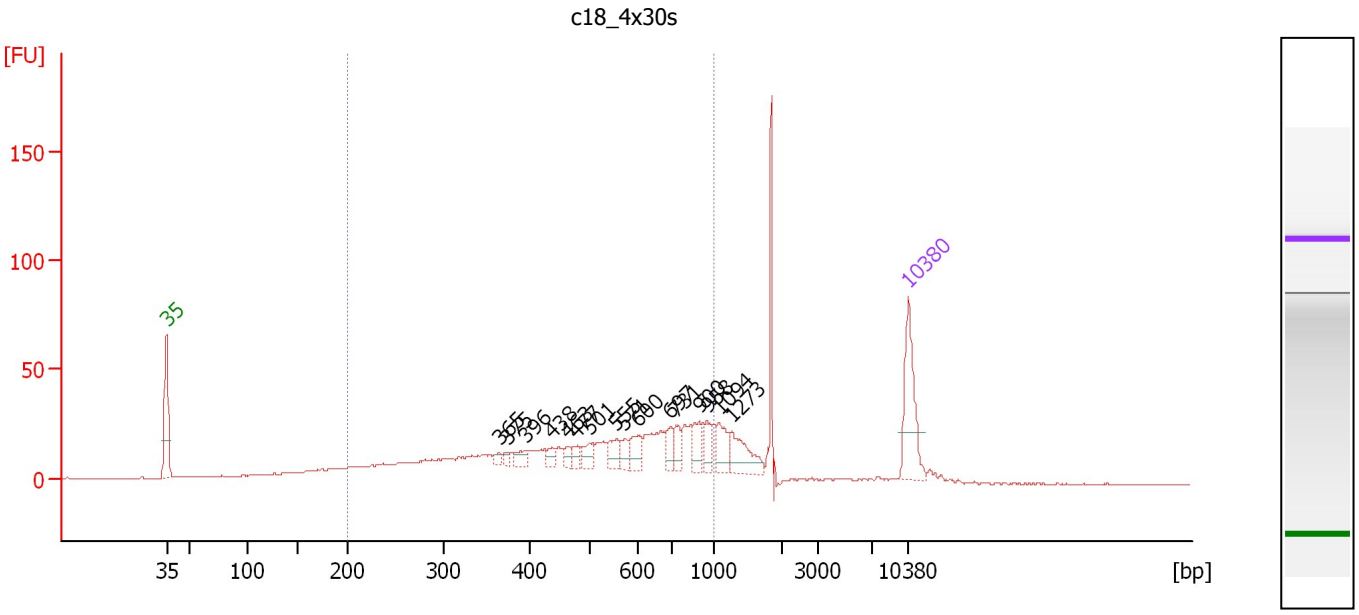

Overall Results for sample 4 : c18_4x30s

Number of peaks found:	16	Corr. Area 1:	635.6
Noise:	0.1		

Peak table for sample 4 : c18_4x30s

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	365	8.08	33.5	
3	375	7.78	31.4	
4	396	15.17	58.1	
5	438	13.60	47.1	
6	463	10.58	34.6	
7	477	12.93	41.0	
8	501	19.18	58.0	
9	555	25.45	69.5	
10	571	16.71	44.3	
11	600	26.69	67.5	
12	697	20.14	43.8	
13	731	23.43	48.6	
14	900	25.11	42.3	
15	958	21.67	34.3	
16	1,094	29.27	40.5	
17	1,273	48.24	57.4	
18	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : c18_4x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	531	3,224.7	890.47	635.6	72	38.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

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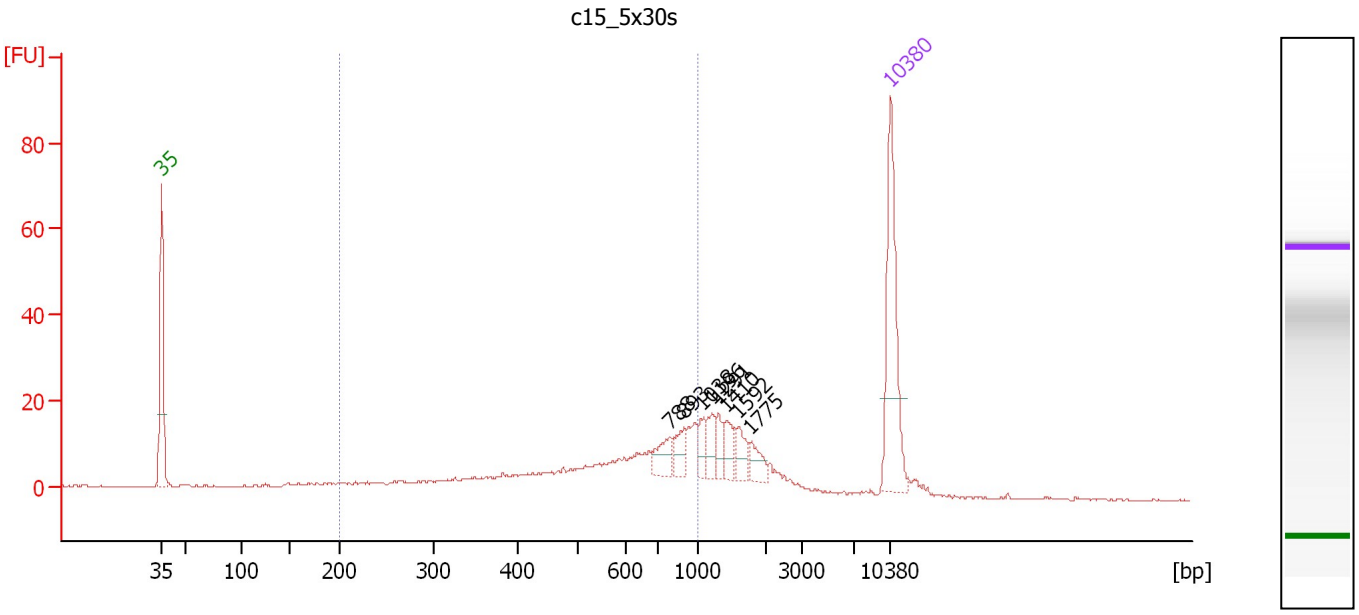


Overall Results for sample 5 : c15_5x30s

Number of peaks found:	8	Corr. Area 1:	217.4
Noise:	0.2		

Peak table for sample 5 : c15_5x30s

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		788	17.63	33.9	
3		893	14.23	24.1	
4		1,038	9.94	14.5	
5		1,196	14.35	18.2	
6		1,291	10.78	12.6	
7		1,410	15.10	16.2	
8		1,592	13.93	13.3	
9		1,775	11.88	10.1	
10	▶	10,380	75.00	10.9	Upper Marker

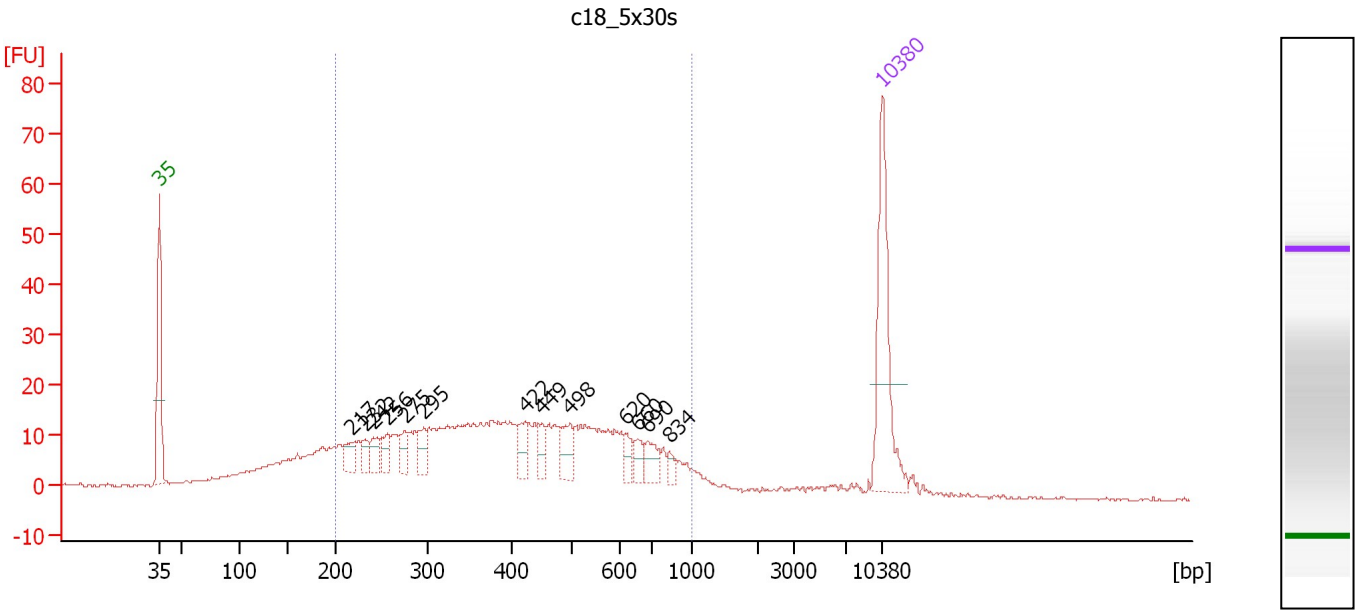
Region table for sample 5 : c15_5x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	592	869.2	268.43	217.4	59	36.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : c18_5x30s

Number of peaks found:	13	Corr. Area 1:	512.2
Noise:	0.2		

Peak table for sample 6 : c18_5x30s

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	217	14.27	99.6	
3	232	11.37	74.1	
4	242	14.37	90.1	
5	256	14.96	88.4	
6	275	13.24	72.9	
7	295	15.66	80.4	
8	422	15.80	56.8	
9	449	11.64	39.3	
10	498	23.88	72.7	
11	620	9.47	23.1	
12	660	9.77	22.4	
13	690	15.84	34.8	
14	834	6.43	11.7	
15	10,380	75.00	10.9	Upper Marker

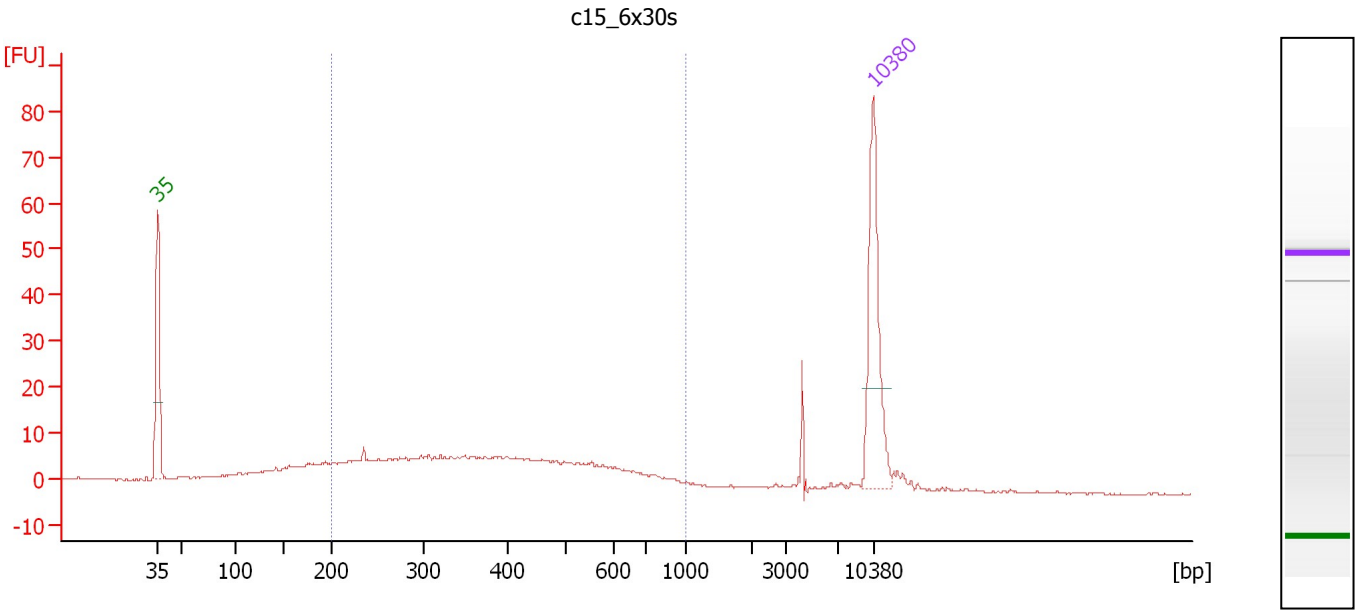
Region table for sample 6 : c18_5x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	434	2,924.8	687.94	512.2	79	38.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : c15_6x30s

Number of peaks found:	0	Corr. Area 1:	224.9
Noise:	0.2		

Peak table for sample 7 : c15_6x30s

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

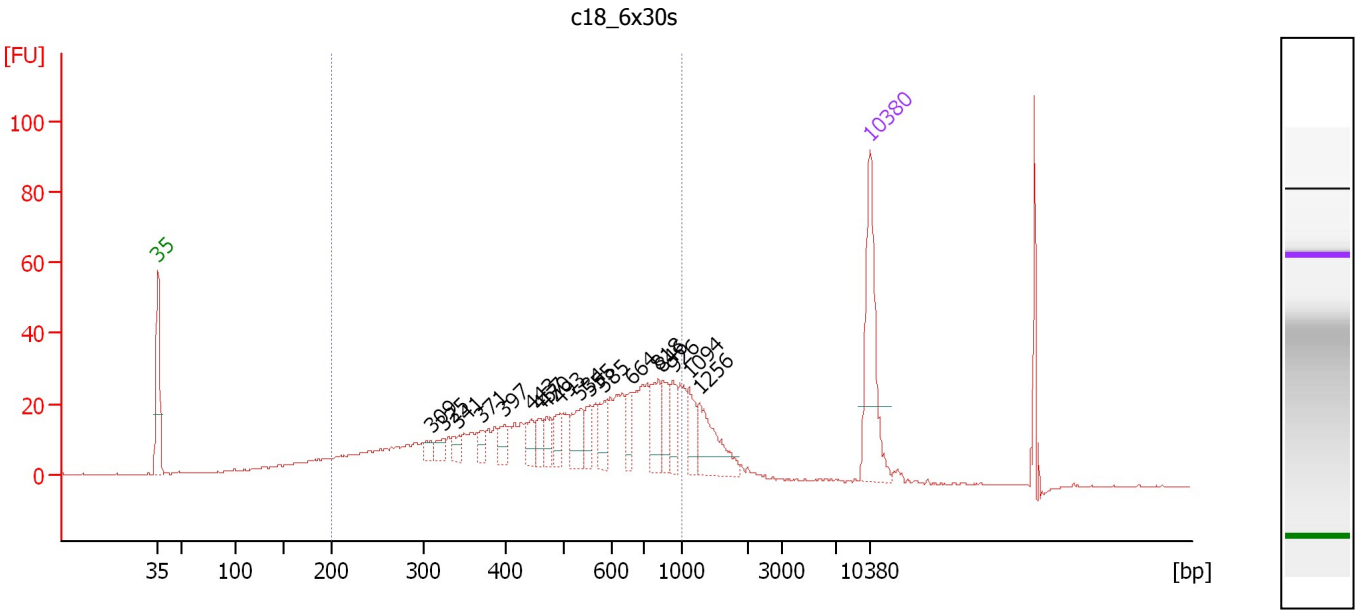
Region table for sample 7 : c15_6x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	409	1,327.4	298.48	224.9	71	37.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : c18_6x30s

Number of peaks found:	18	Corr. Area 1:	671.4
Noise:	0.2		

Peak table for sample 8 : c18_6x30s

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	309	10.06	49.3	
3	325	11.43	53.4	
4	341	10.11	44.9	
5	371	11.94	48.8	
6	397	13.43	51.2	
7	443	17.82	60.9	
8	457	13.68	45.4	
9	470	14.10	45.5	
10	493	19.42	59.7	
11	534	29.89	84.9	
12	555	15.15	41.3	
13	585	21.74	56.3	
14	664	18.00	41.1	
15	818	32.74	60.6	
16	846	22.28	39.9	
17	926	19.84	32.4	
18	1,094	21.94	30.4	
19	1,256	45.34	54.7	
20	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : c18_6x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	532	2,774.2	773.31	671.4	77	37.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

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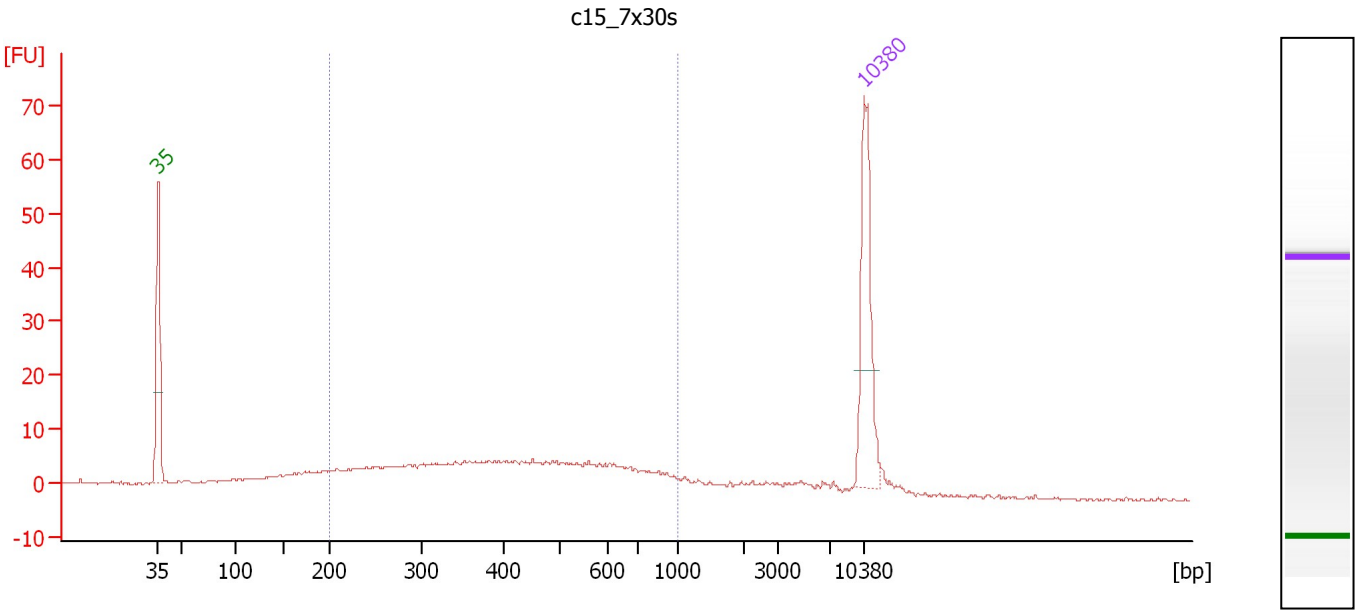


Overall Results for sample 9 : c15_7x30s

Number of peaks found:	0	Corr. Area 1:	194.7
Noise:	0.1		

Peak table for sample 9 : c15_7x30s

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	▶	10,380	75.00	10.9	Upper Marker

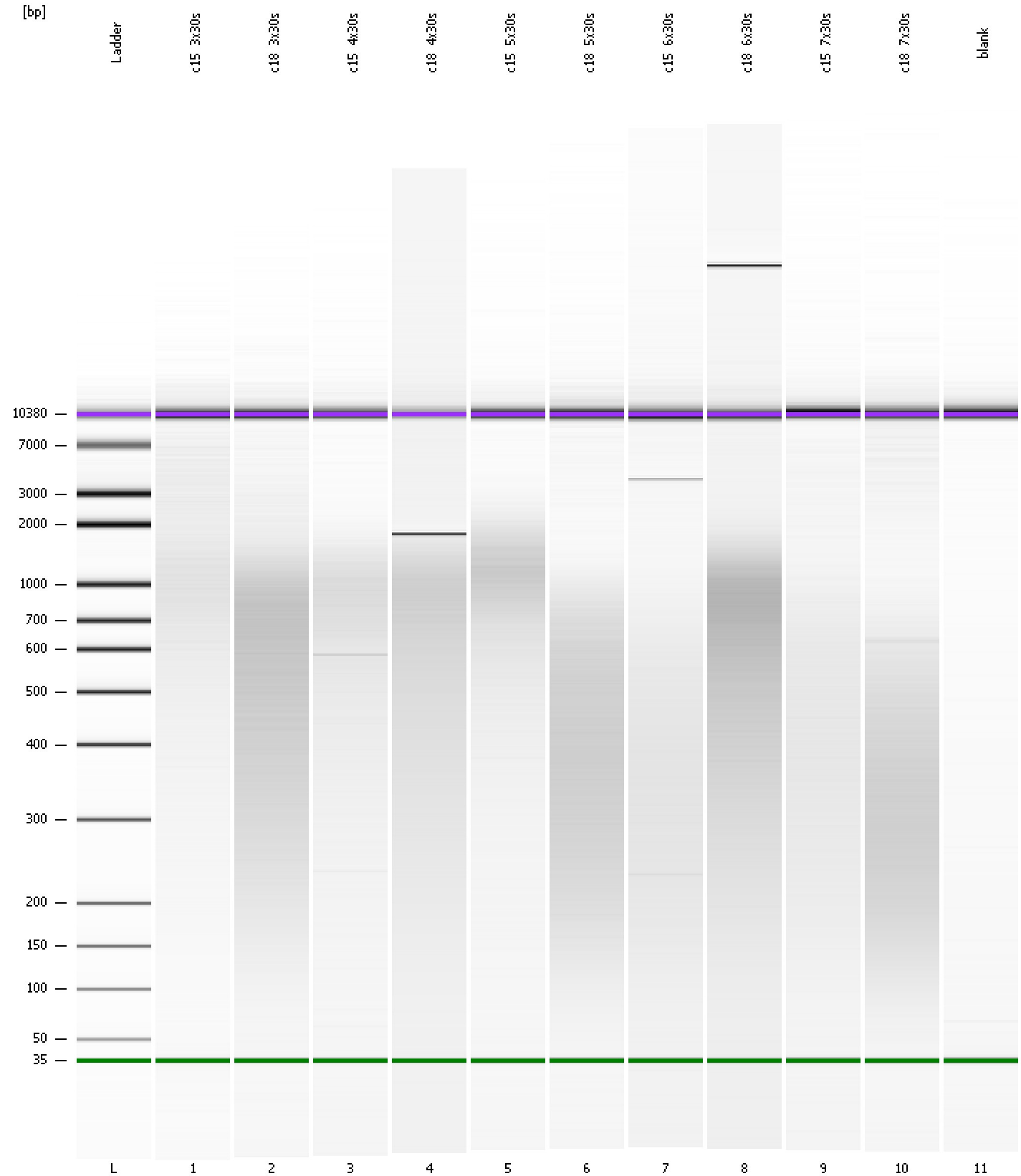
Region table for sample 9 : c15_7x30s

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	450	1,212.7	292.11	194.7	72	39.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-24\2012-07-24_003.xad

Created: 7/24/2012 11:15:39 AM
Modified: 7/24/2012 11:56:15 AM

Curves

Standard Curve