

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
Modified: 8/4/2014 2:15:31 AM

Electrophoresis File Run Summary

Instrument Information:

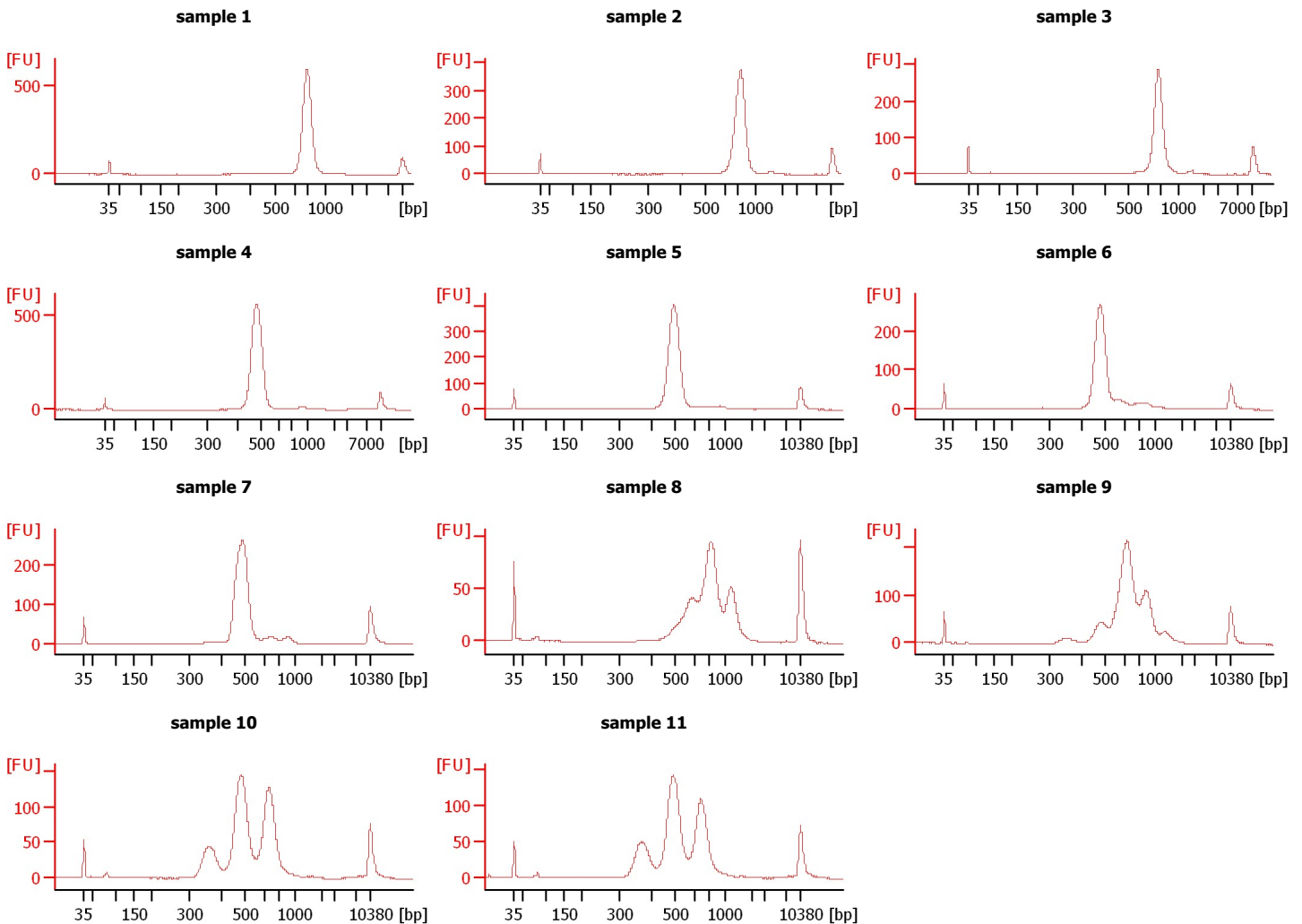
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
Modified: 8/4/2014 2:15:31 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<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\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
Modified: 8/4/2014 2:15:31 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

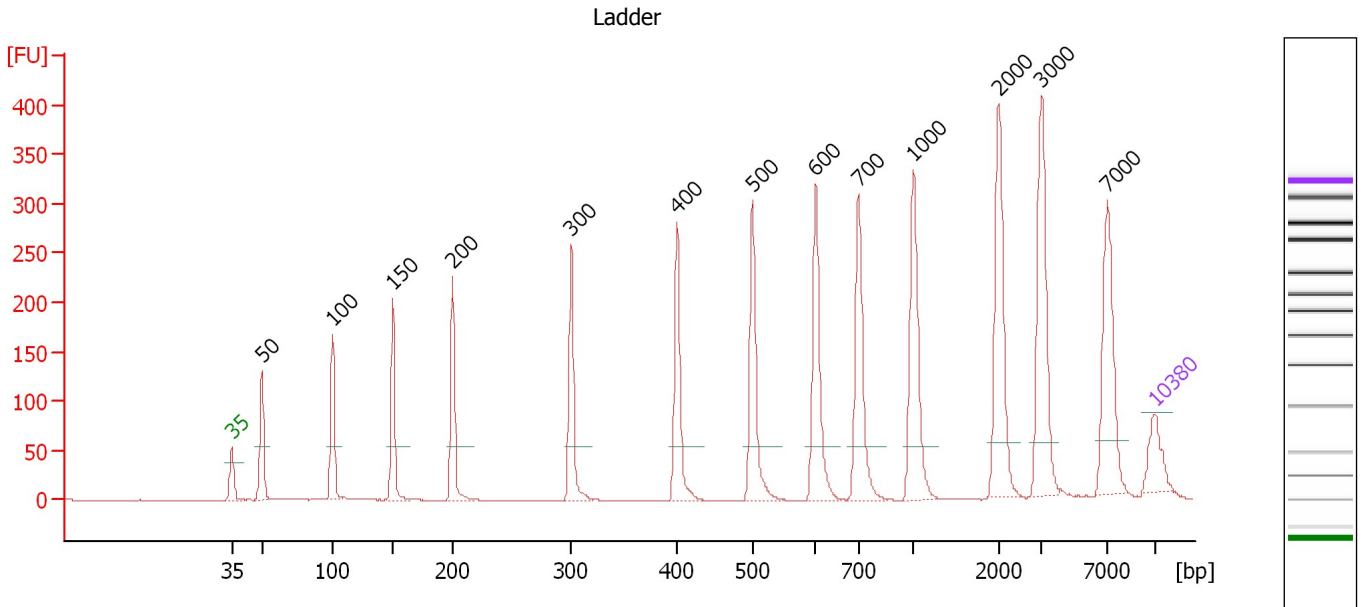
Ladder

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:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

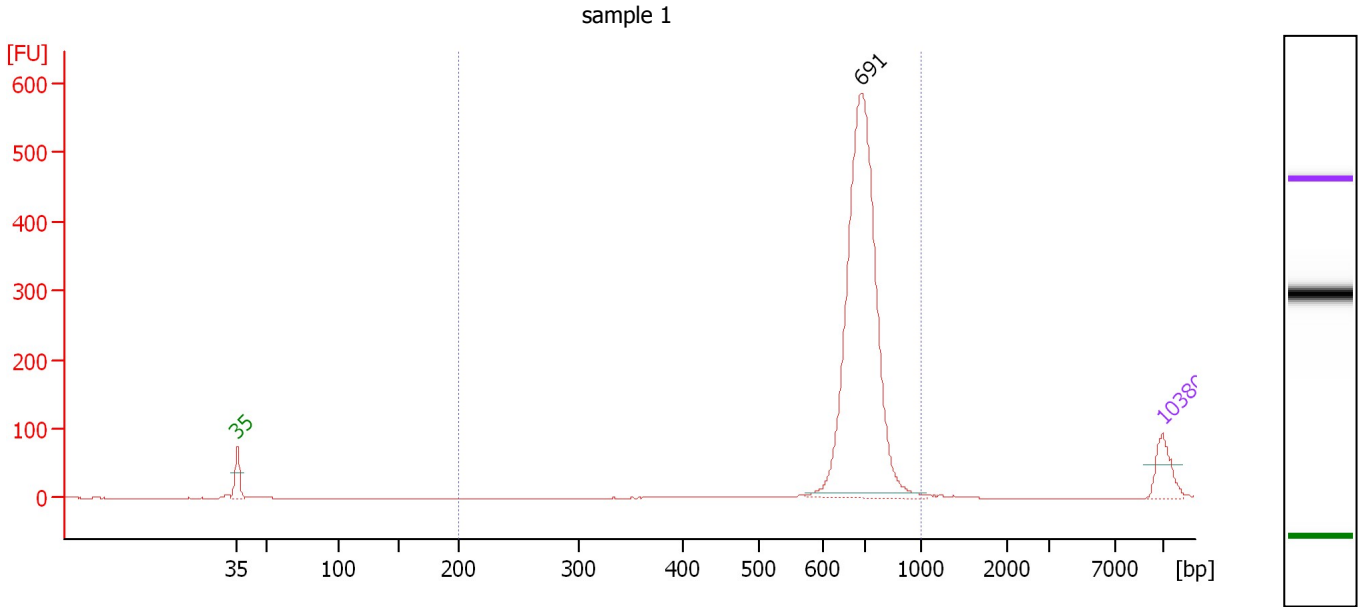
Peak table for Ladder

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:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 1 Corr. Area 1: 1,705.7
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	691	1,518.60	3,330.9	
3	10,380	75.00	10.9	Upper Marker

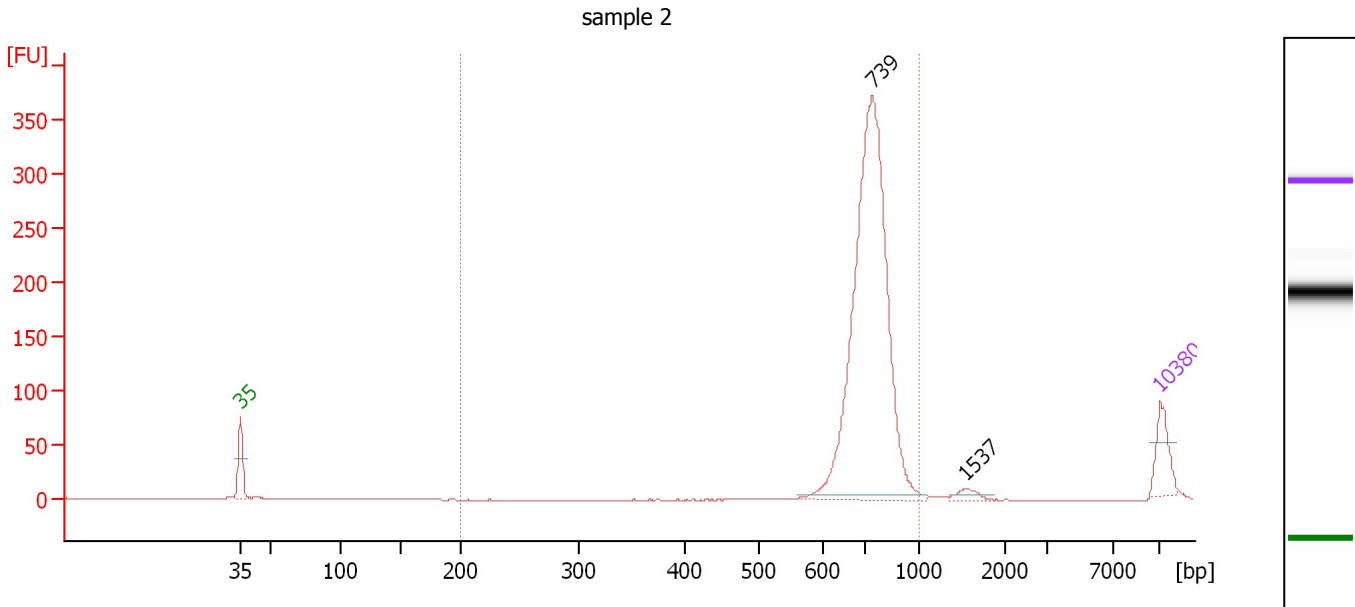
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	703	3,195.8	1,475.83	1,705.7	99	7.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 2 Corr. Area 1: 1,226.8
 Noise: 0.2

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	739	1,439.73	2,951.3	
3	1,537	20.40	20.1	
4	10,380	75.00	10.9	Upper Marker

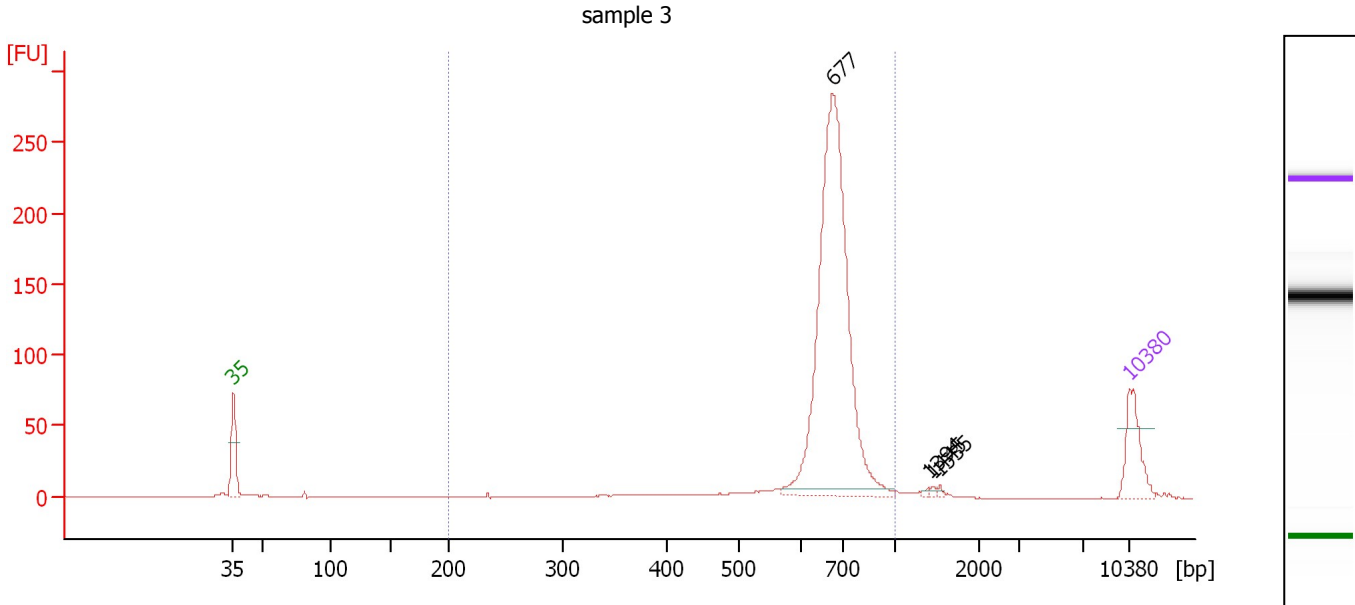
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	738	2,903.2	1,404.91	1,226.8	98	9.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 4 Corr. Area 1: 914.5
 Noise: 0.2

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	677	940.43	2,104.1	
3	1,394	2.96	3.2	
4	1,445	3.52	3.7	
5	1,535	3.43	3.4	
6	10,380	75.00	10.9	Upper Marker

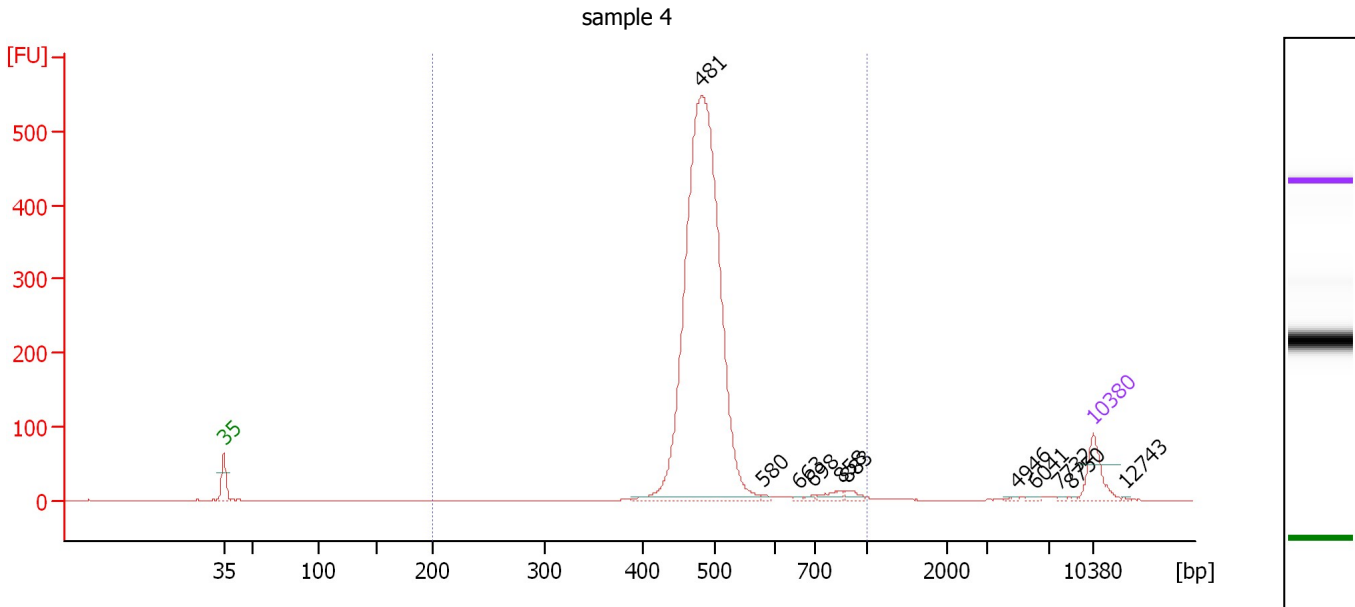
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	679	2,282.0	1,001.34	914.5	96	11.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 11 Corr. Area 1: 2,370.6
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	481	2,291.68	7,226.1	
3	580	5.44	14.2	
4	663	4.79	10.9	
5	698	5.82	12.6	
6	858	22.30	39.4	
7	883	17.66	30.3	
8	4,946	4.39	1.3	
9	6,041	5.90	1.5	
10	7,732	3.32	0.7	
11	8,750	1.94	0.3	
12	10,380	75.00	10.9	Upper Marker
13	12,743	0.00	0.0	

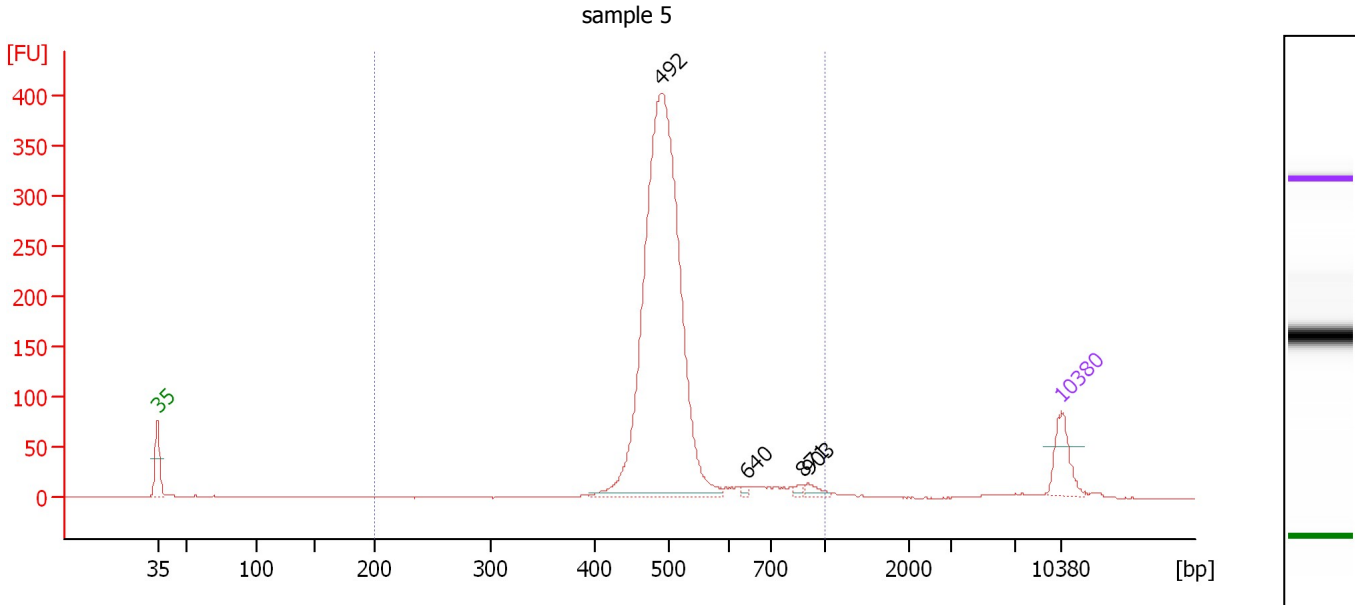
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	493	7,357.6	2,365.72	2,370.6	98	12.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 4 Corr. Area 1: 1,764.9
 Noise: 0.2

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	492	1,748.19	5,388.6	
3	640	7.42	17.6	
4	871	8.90	15.5	
5	903	19.53	32.8	
6	10,380	75.00	10.9	Upper Marker

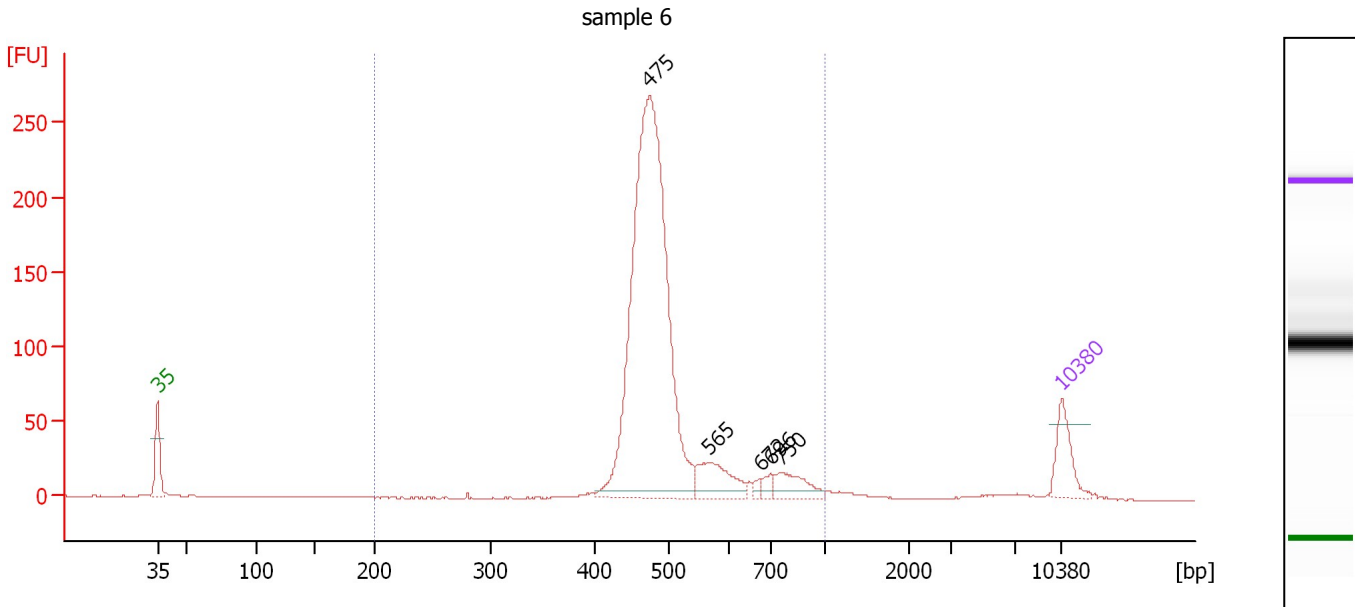
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	509	5,605.4	1,849.24	1,764.9	97	14.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 5 Corr. Area 1: 1,262.7
 Noise: 0.2

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	475	1,454.61	4,637.1	
3	565	112.73	302.1	
4	672	12.70	28.6	
5	696	18.68	40.6	
6	750	69.98	141.3	
7	10,380	75.00	10.9	Upper Marker

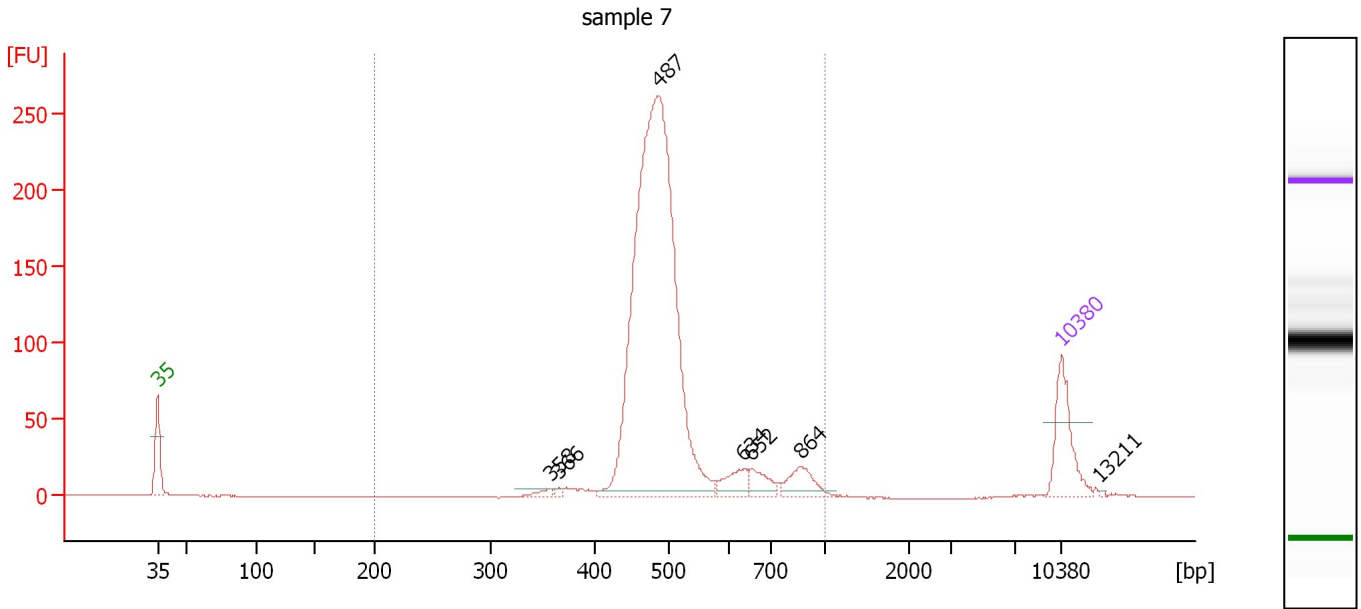
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	507	5,207.9	1,693.63	1,262.7	96	17.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 7 Corr. Area 1: 1,248.1
 Noise: 0.2

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	358	11.04	46.7	
3	366	4.77	19.8	
4	487	1,097.68	3,416.3	
5	634	35.39	84.6	
6	652	29.55	68.6	
7	864	42.16	73.9	
8	10,380	75.00	10.9	Upper Marker
9	13,211	0.00	0.0	

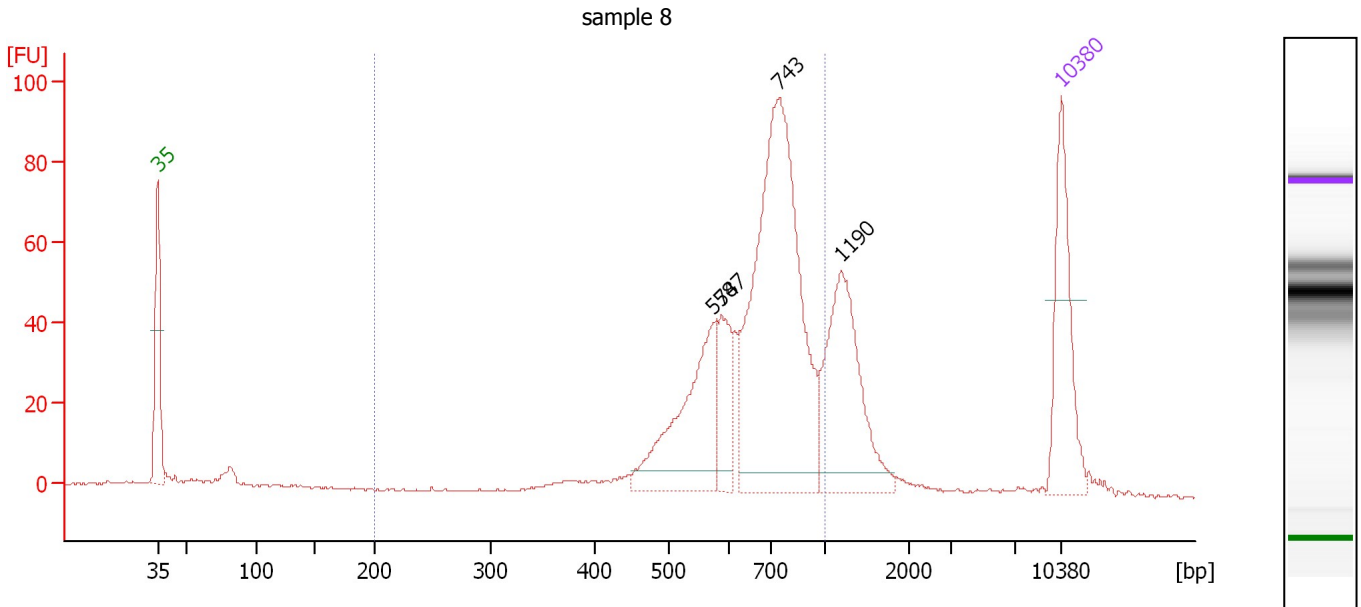
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	501	3,465.4	1,123.80	1,248.1	100	14.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 4 Corr. Area 1: 713.1
 Noise: 0.3

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	574	136.35	360.0	
3	587	47.21	121.9	
4	743	372.18	759.0	
5	1,190	134.53	171.3	
6	10,380	75.00	10.9	Upper Marker

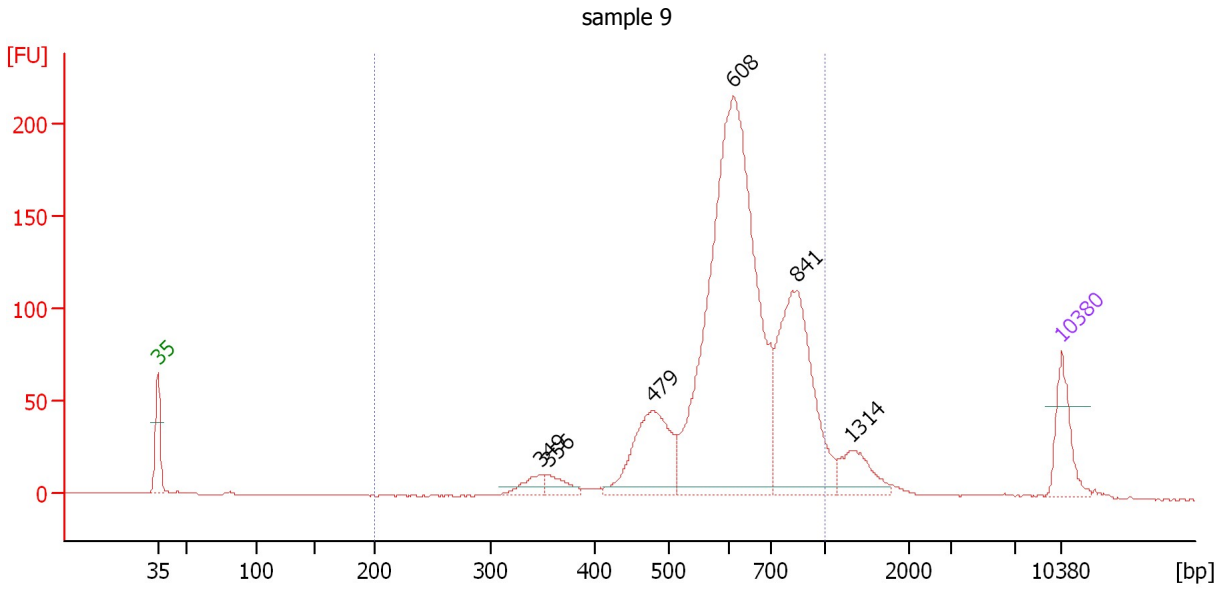
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	683	1,419.9	609.03	713.1	76	19.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 6 Corr. Area 1: 1,691.7
 Noise: 0.2

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	349	39.43	171.4	
3	356	36.04	153.4	
4	479	233.41	738.9	
5	608	1,145.09	2,852.0	
6	841	406.49	732.7	
7	1,314	68.59	79.1	
8	10,380	75.00	10.9	Upper Marker

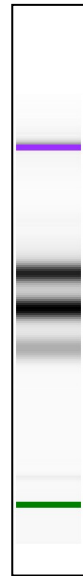
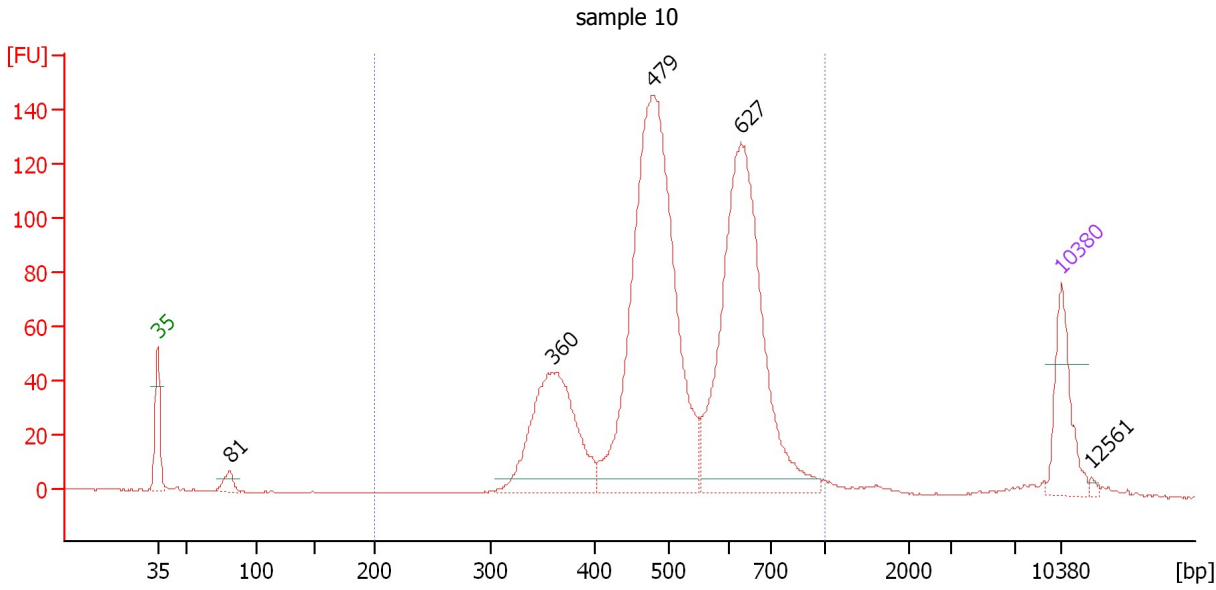
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	638	4,780.0	1,893.76	1,691.7	92	20.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 5 Corr. Area 1: 1,505.2
 Noise: 0.1

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	21.53	404.2	
3	360	286.20	1,205.8	
4	479	764.02	2,416.8	
5	627	551.87	1,334.4	
6	10,380	75.00	10.9	Upper Marker
7	12,561	0.00	0.0	

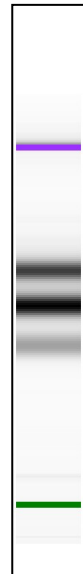
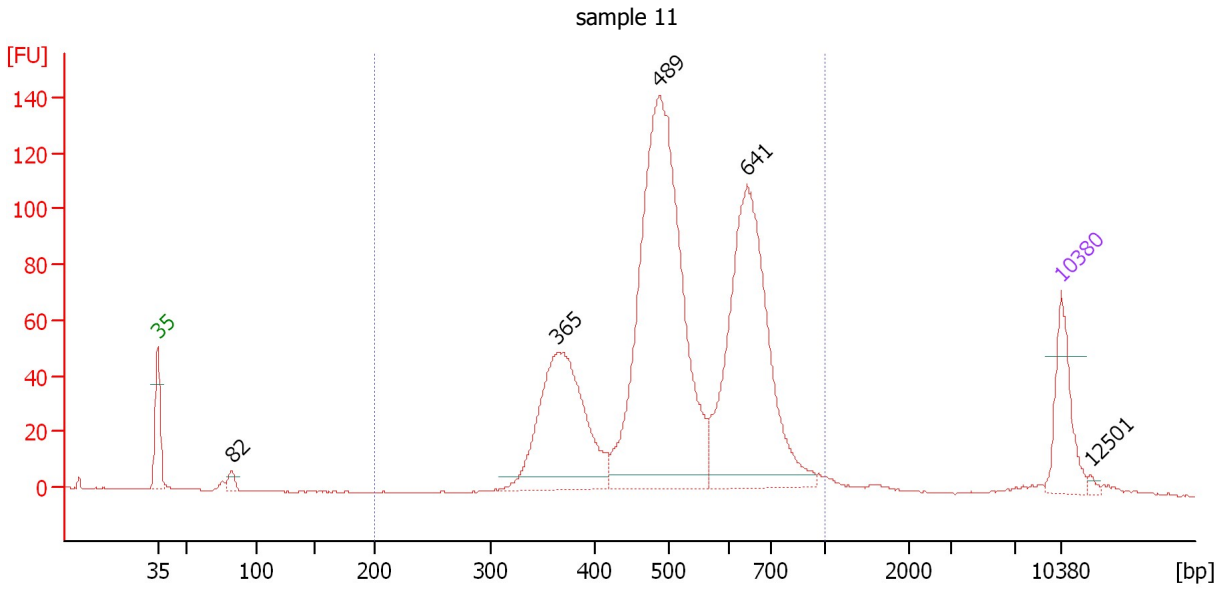
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	527	4,973.8	1,620.52	1,505.2	95	21.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
 Modified: 8/4/2014 2:15:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 5 Corr. Area 1: 1,424.4
 Noise: 0.2

Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	15.47	284.3	
3	365	360.13	1,495.1	
4	489	809.52	2,510.7	
5	641	501.21	1,185.3	
6	10,380	75.00	10.9	Upper Marker
7	12,501	0.00	0.0	

Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	530	5,273.7	1,721.27	1,424.4	95	22.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad

Created: 8/4/2014 1:35:04 AM
Modified: 8/4/2014 2:15:31 AM

Gel Image

Assay Class: High Sensitivity DNA Assay Created: 8/4/2014 1:35:04 AM
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_001.xad Modified: 8/4/2014 2:15:31 AM

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		8/4/2014 2:15:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-04\2014-08-04_001.xad)		Instrument	Run		8/4/2014 1:35:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/4/2014 1:35:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/4/2014 1:35:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/4/2014 1:35:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/4/2014 1:35:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/4/2014 1:35:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/4/2014 1:35:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1