

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

Created: 1/28/2014 3:02:22 PM
Modified: 1/28/2014 3:43:52 PM

Electrophoresis File Run Summary

Instrument Information:

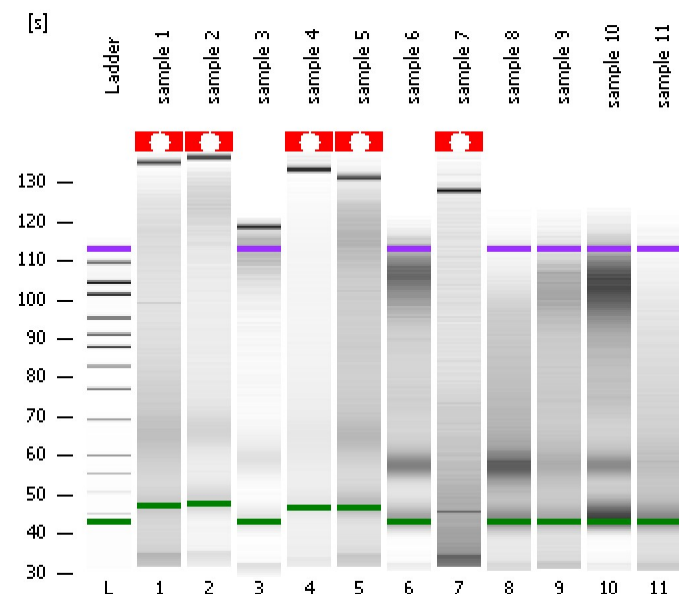
Instrument Name: DE72901330 Firmware: C.01.069
Serial#: DE72901330 Type: G2939A

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: 1.0
Assay Comments: Copyright © 2003-2009 Agilent Technologies

Chip Information:

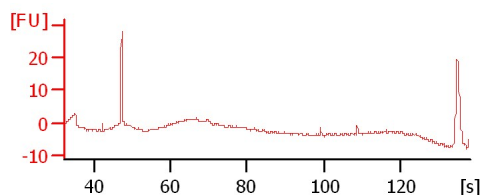
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



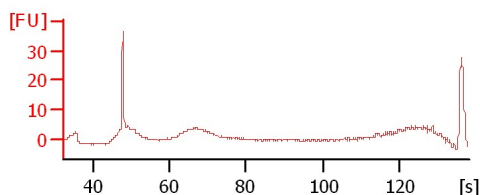
sample 1

sample 2

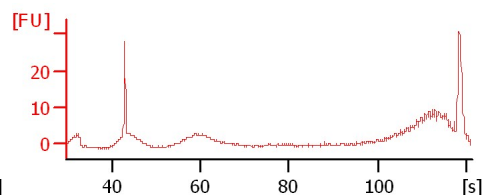
sample 3



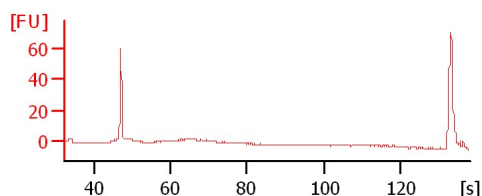
sample 4



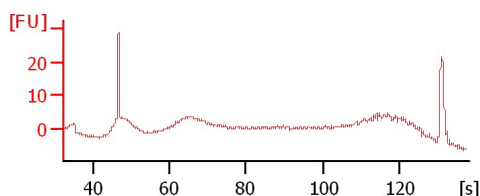
sample 5



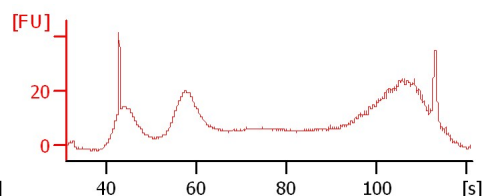
sample 6



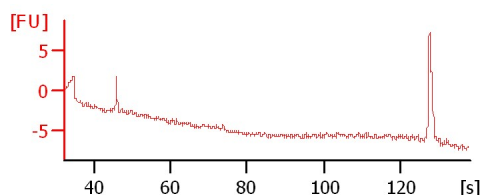
sample 7



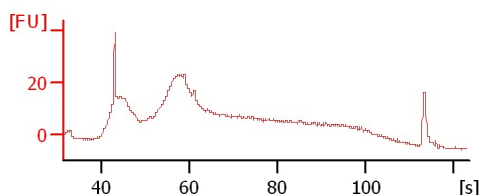
sample 8



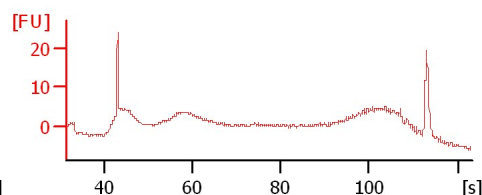
sample 9



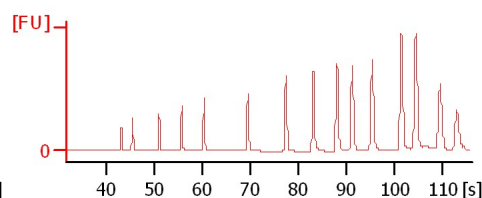
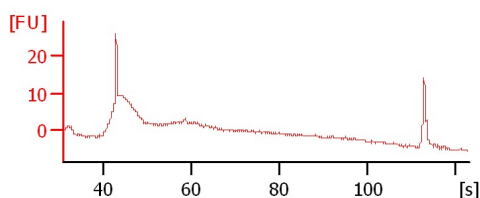
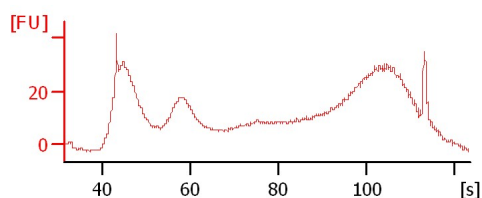
sample 10



sample 11



Ladder



Assay Class: High Sensitivity DNA Assay
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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"/>	✓			

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

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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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

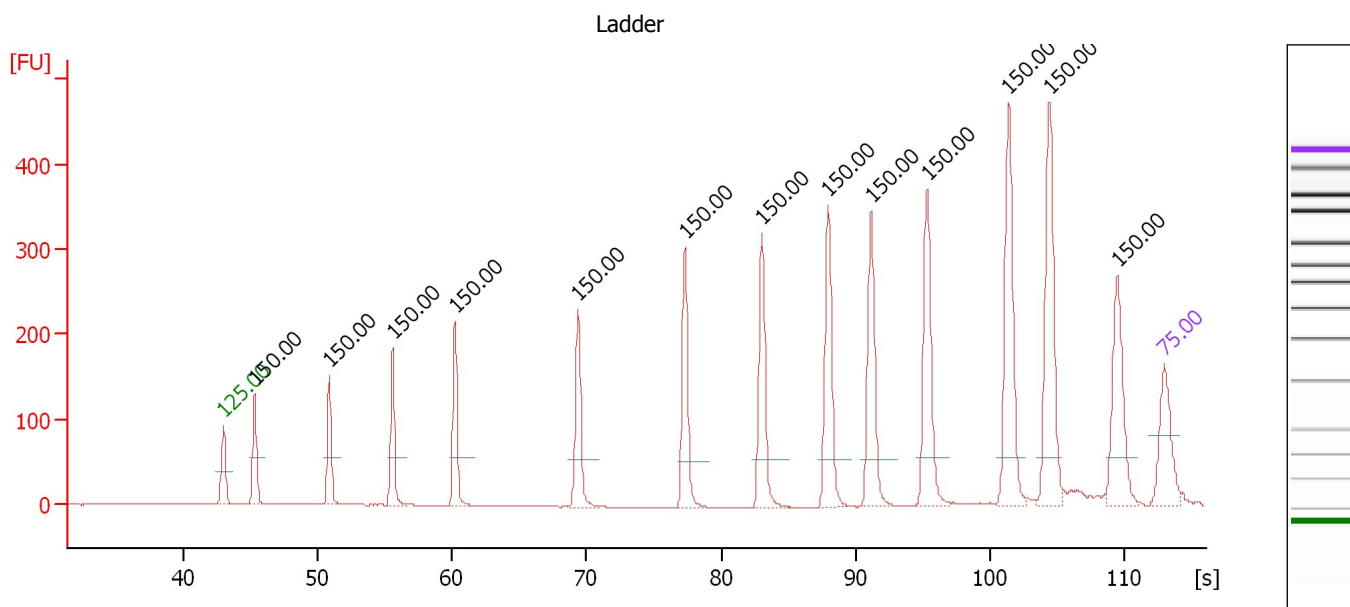
Filter Settings

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

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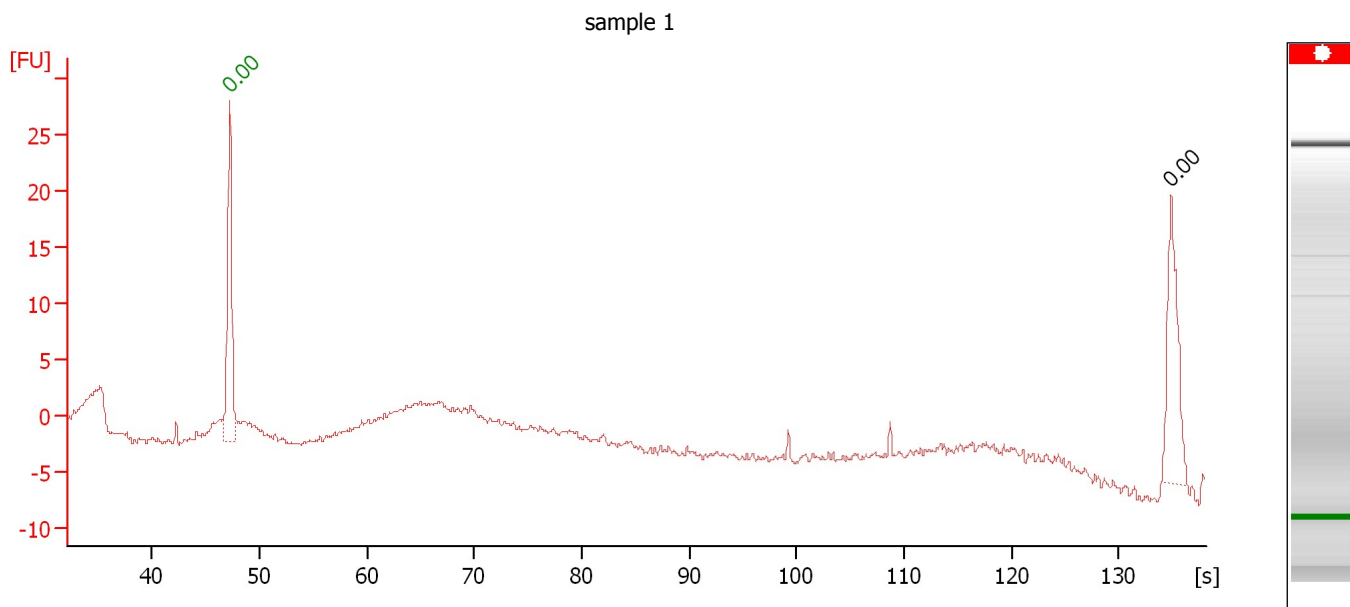
Height Threshold [FU] :	20	Baseline Plateau [s] :	0.3
Area Threshold :	0		

Noise: 0.3

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

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Electropherogram Summary Continued ...**Overall Results for sample 1 : sample 1**

Number of peaks found: 1

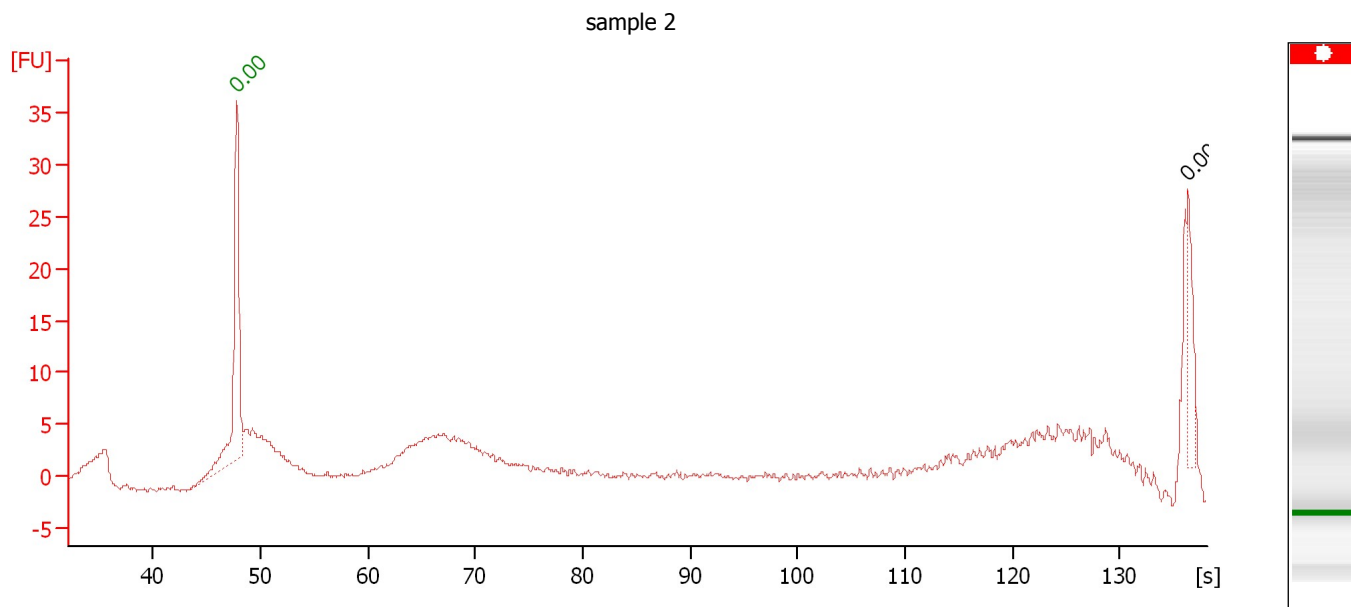
Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	

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Electropherogram Summary Continued ...**Overall Results for sample 2 : sample 2**

Number of peaks found: 1 Noise: 0.3

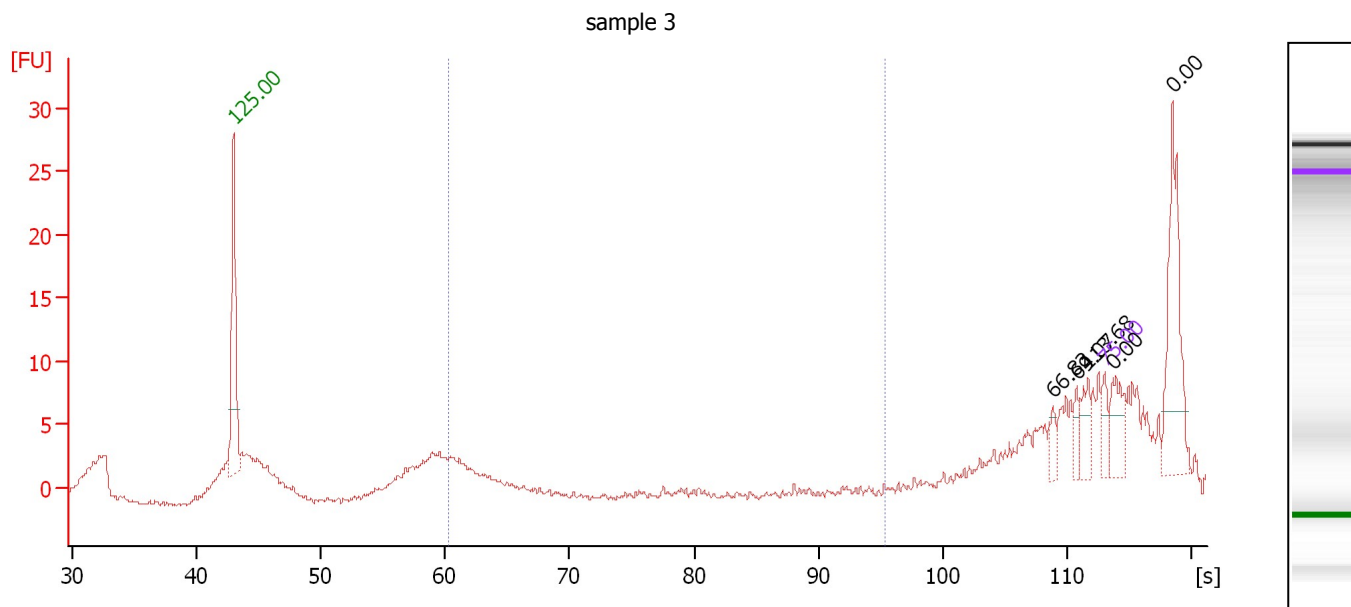
Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 5 Corr. Area 1: 6.9
 Noise: 0.2

Peak table for sample 3 : sample 3

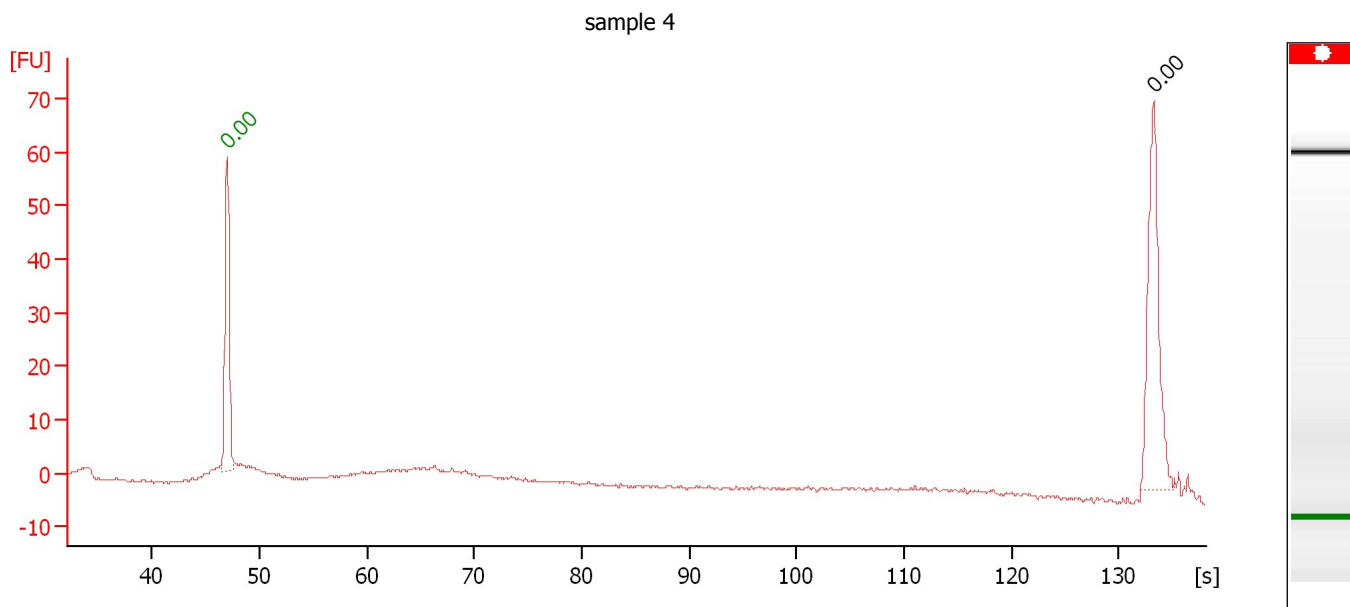
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	6,465	66.82	15.7	
3	8,221	69.07	12.7	
4	9,135	113.68	18.9	
5	10,380	75.00	10.9	Upper Marker
6	11,044	0.00	0.0	
7	15,652	0.00	0.0	

Region table for sample 3 : sample 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	6.9	5	214	5.1	231.77	1,638.8	Blue

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Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

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Electropherogram Summary Continued ...**Overall Results for sample 4 : sample 4**

Number of peaks found: 1

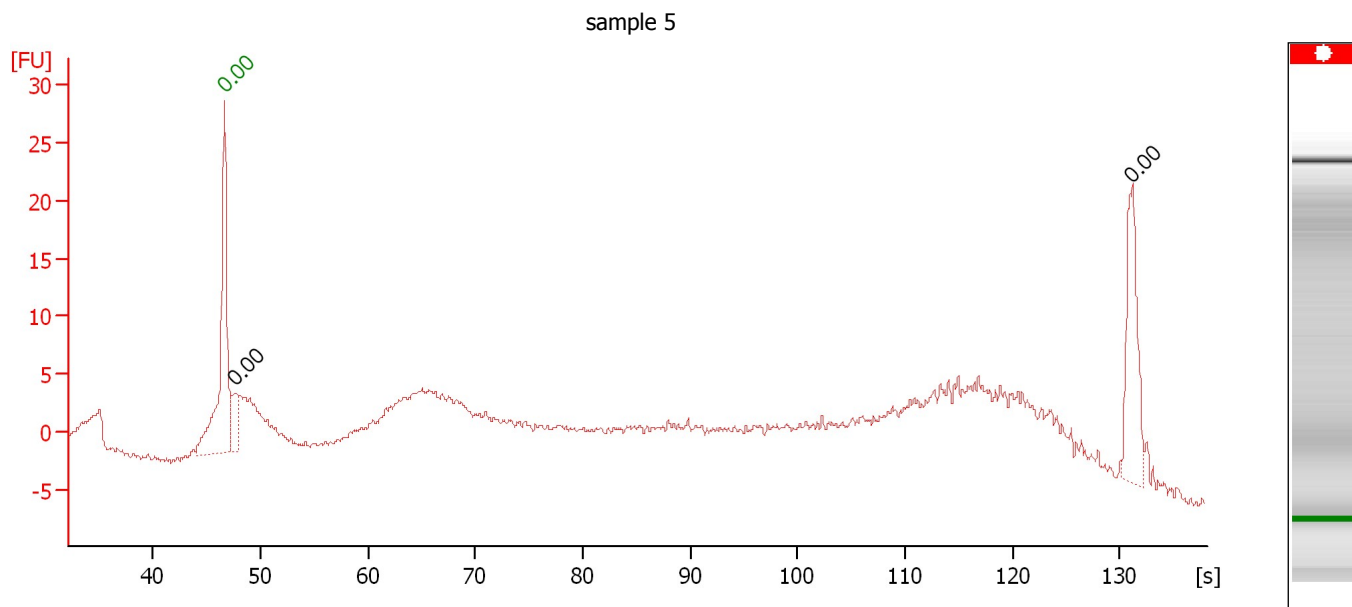
Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

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Electropherogram Summary Continued ...**Overall Results for sample 5 : sample 5**

Number of peaks found: 2 Noise: 0.3

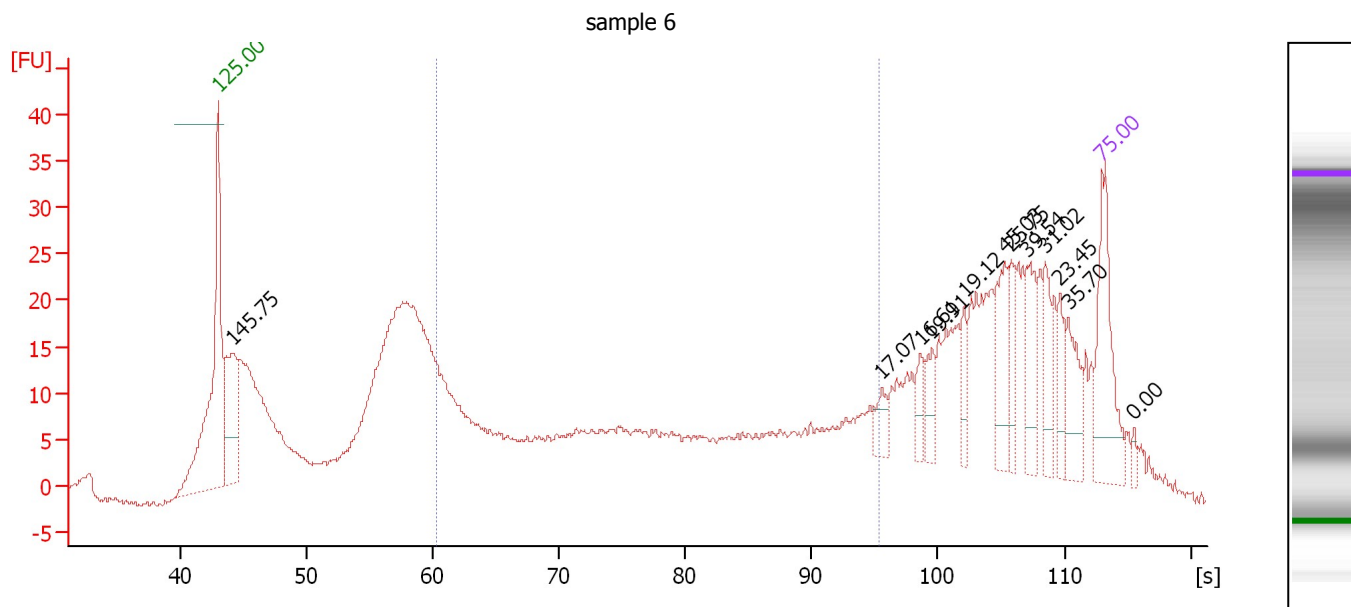
Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 12 Corr. Area 1: 330.6
 Noise: 0.3

Peak table for sample 6 : sample 6

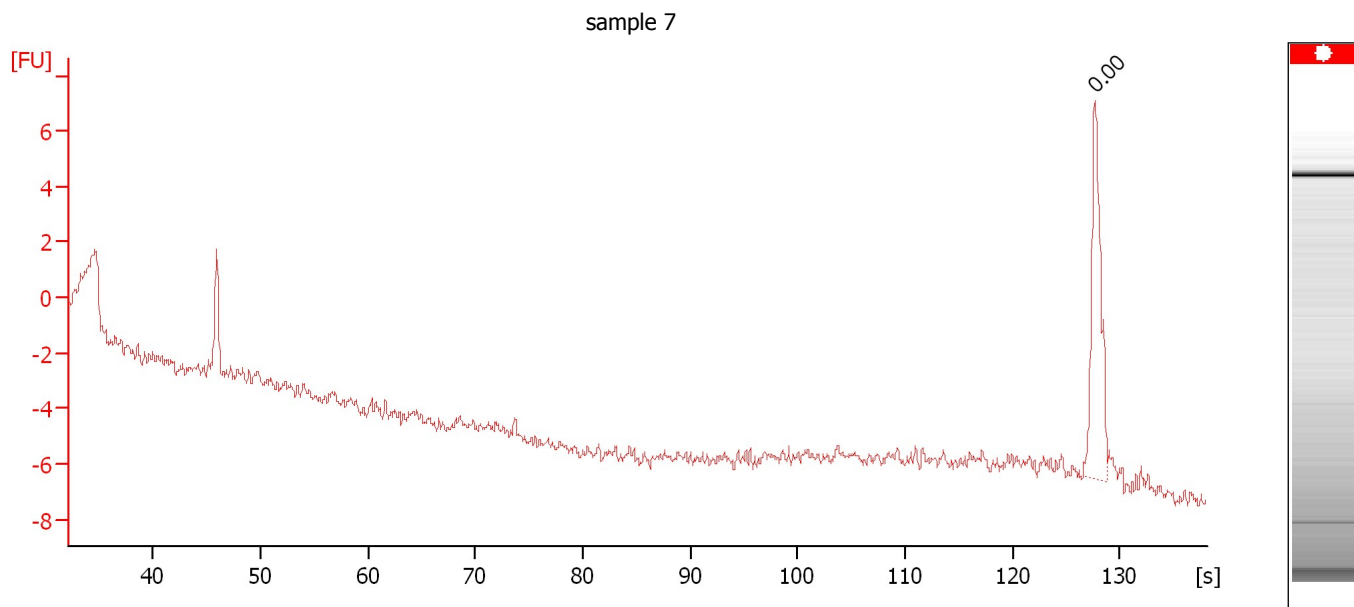
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	145.75	5,272.8	
3	1,037	17.07	24.9	
4	1,534	16.61	16.4	
5	1,688	19.91	17.9	
6	2,216	19.12	13.1	
7	3,644	45.03	18.7	
8	4,049	25.75	9.6	
9	5,063	39.54	11.8	
10	6,212	31.02	7.6	
11	7,150	23.45	5.0	
12	7,804	35.70	6.9	
13	10,380	75.00	10.9	Upper Marker
14	12,792	0.00	0.0	

Region table for sample 6 : sample 6

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	330.6	33	463	45.8	920.85	4,029.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

Created: 1/28/2014 3:02:22 PM
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Electropherogram Summary Continued ...**Overall Results for sample 7 : sample 7**

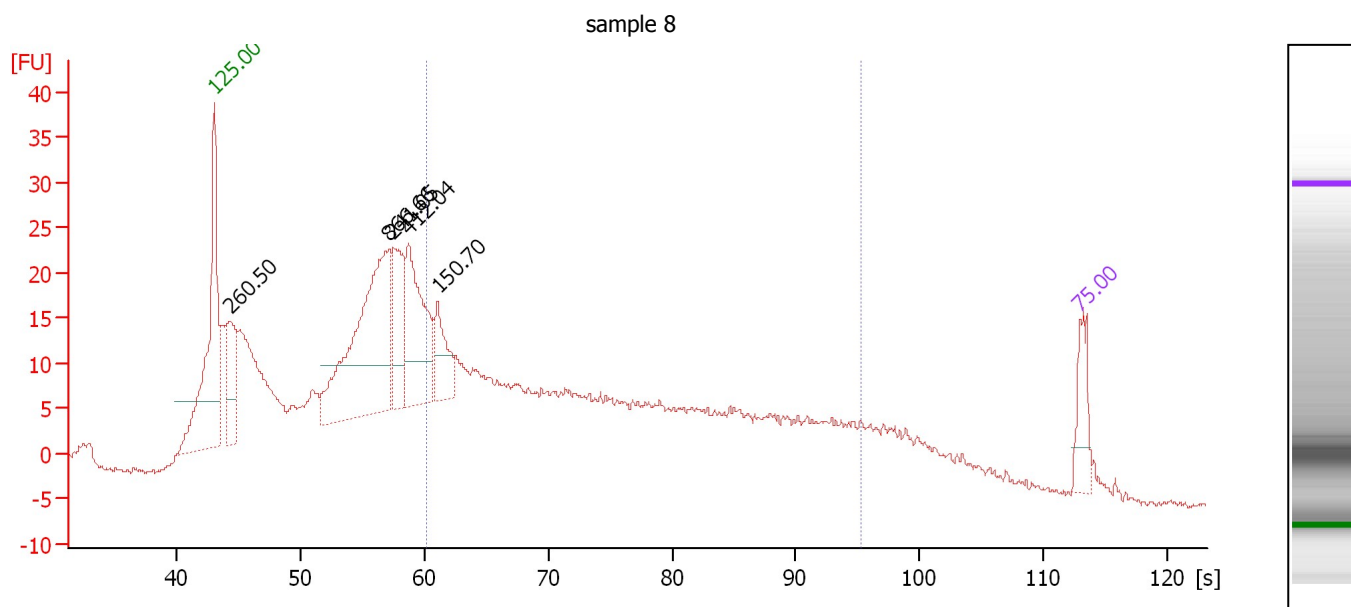
Number of peaks found: 0 Noise: 0.3

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

Created: 1/28/2014 3:02:22 PM
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Electropherogram Summary Continued ...**Overall Results for sample 8 : sample 8**

Number of peaks found: 5 Corr. Area 1: 429.3
 Noise: 0.4

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	43	260.50	9,087.7	
3	166	866.66	7,887.7	
4	170	241.05	2,145.5	
5	184	412.04	3,396.5	
6	209	150.70	1,091.3	
7	10,380	75.00	10.9	Upper Marker

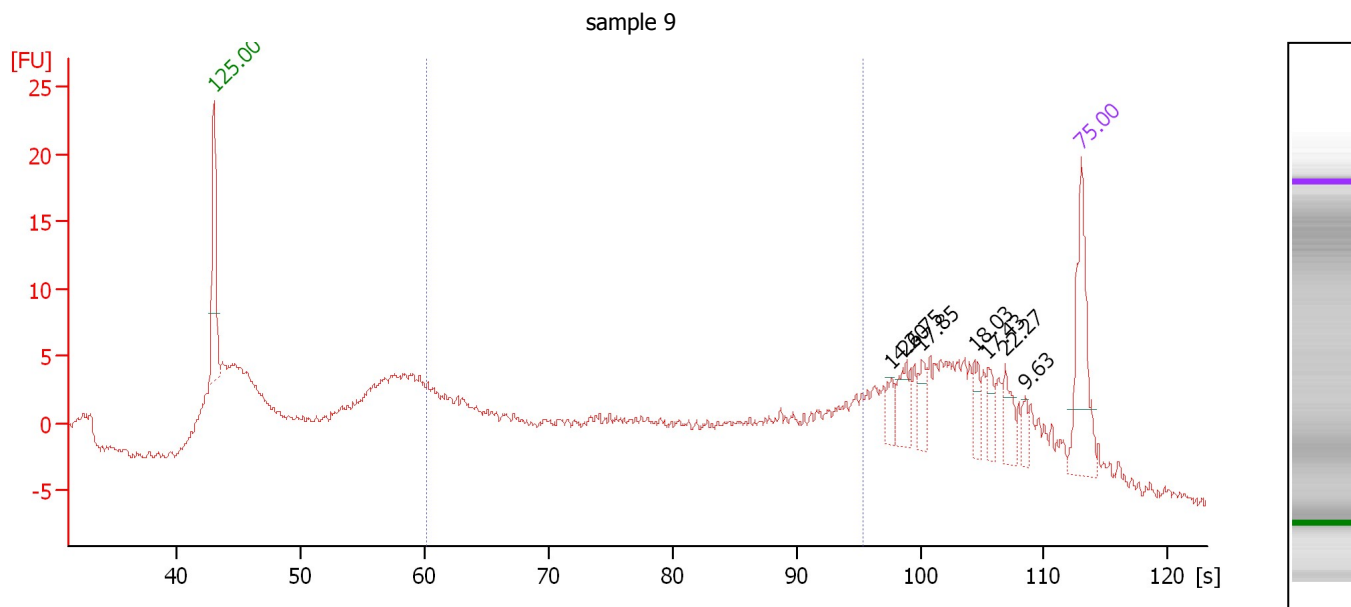
Region table for sample 8 : sample 8

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	429.3	45	423	45.3	2,714.28	12,567.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 7 Corr. Area 1: 155.8
 Noise: 0.3

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	1,389	14.20	15.5	
3	1,574	26.75	25.8	
4	1,788	17.85	15.1	
5	2,975	18.03	9.2	
6	3,801	17.43	6.9	
7	4,938	22.27	6.8	
8	6,178	9.63	2.4	
9	10,380	75.00	10.9	Upper Marker

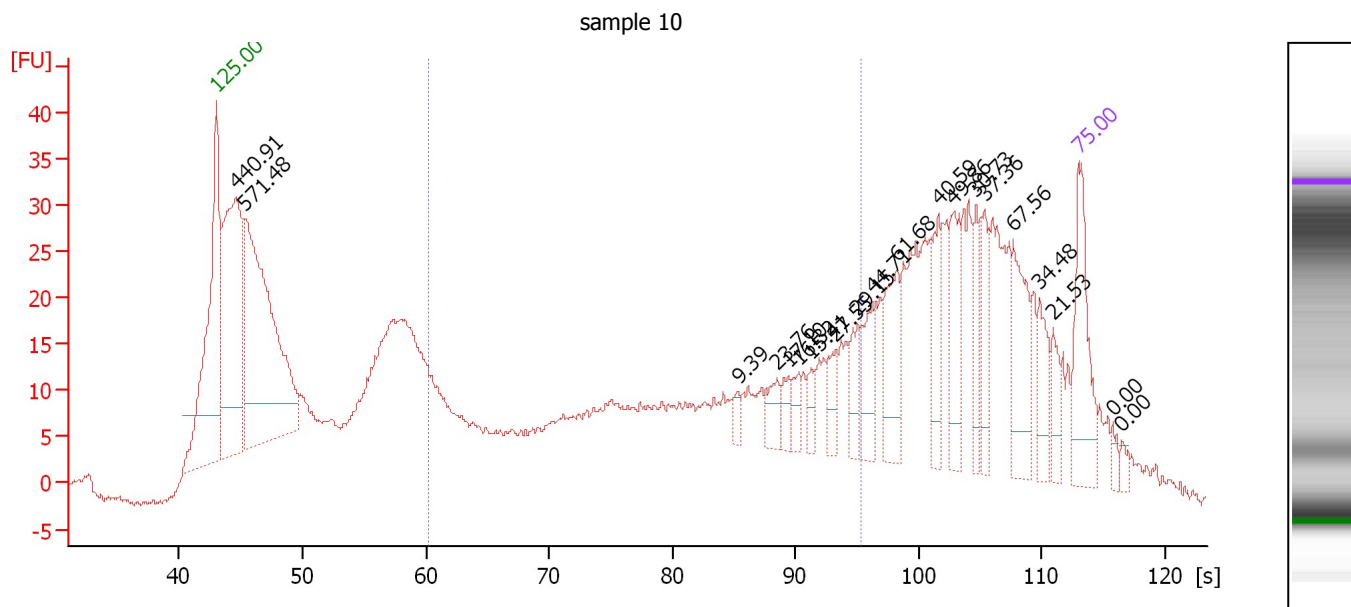
Region table for sample 9 : sample 9

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	155.8	39	494	44.3	808.27	3,342.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad

Created: 1/28/2014 3:02:22 PM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 20 Corr. Area 1: 449.0
 Noise: 0.4

Peak table for sample 10 : sample 10

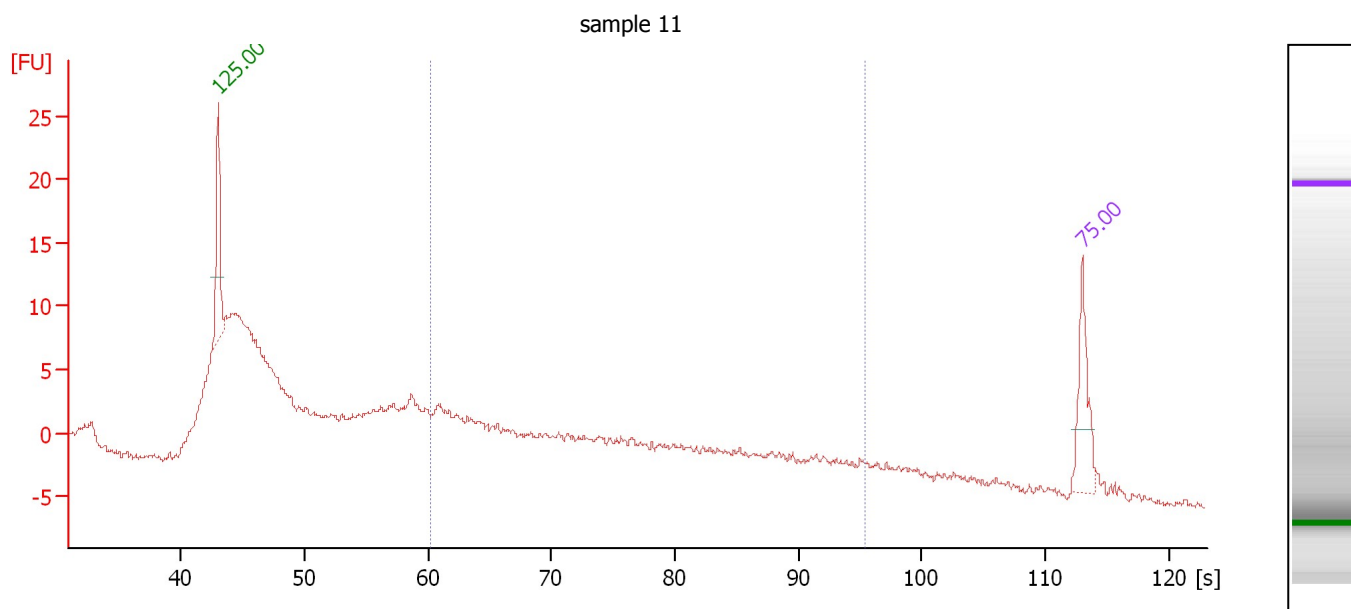
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	45	440.91	14,703.9	
3	50	571.48	17,209.4	
4	547	9.39	26.0	
5	615	23.76	58.5	
6	644	17.10	40.2	
7	670	16.32	36.9	
8	706	15.41	33.1	
9	850	27.55	49.1	
10	976	29.15	45.2	
11	1,146	44.71	59.1	
12	1,476	61.68	63.3	
13	2,057	40.59	29.9	
14	2,459	49.86	30.7	
15	3,148	30.73	14.8	
16	3,702	37.36	15.3	
17	5,571	67.56	18.4	
18	7,281	34.48	7.2	
19	8,328	21.53	3.9	
20	10,380	75.00	10.9	Upper Marker
21	12,976	0.00	0.0	
22	13,688	0.00	0.0	

Region table for sample 10 : sample 10

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	449.0	31	507	42.7	1,236.20	4,921.7	Blue

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Electropherogram Summary Continued ...**Overall Results for sample 11 : sample 11**

Number of peaks found: 0 Corr. Area 1: 97.3
 Noise: 0.3

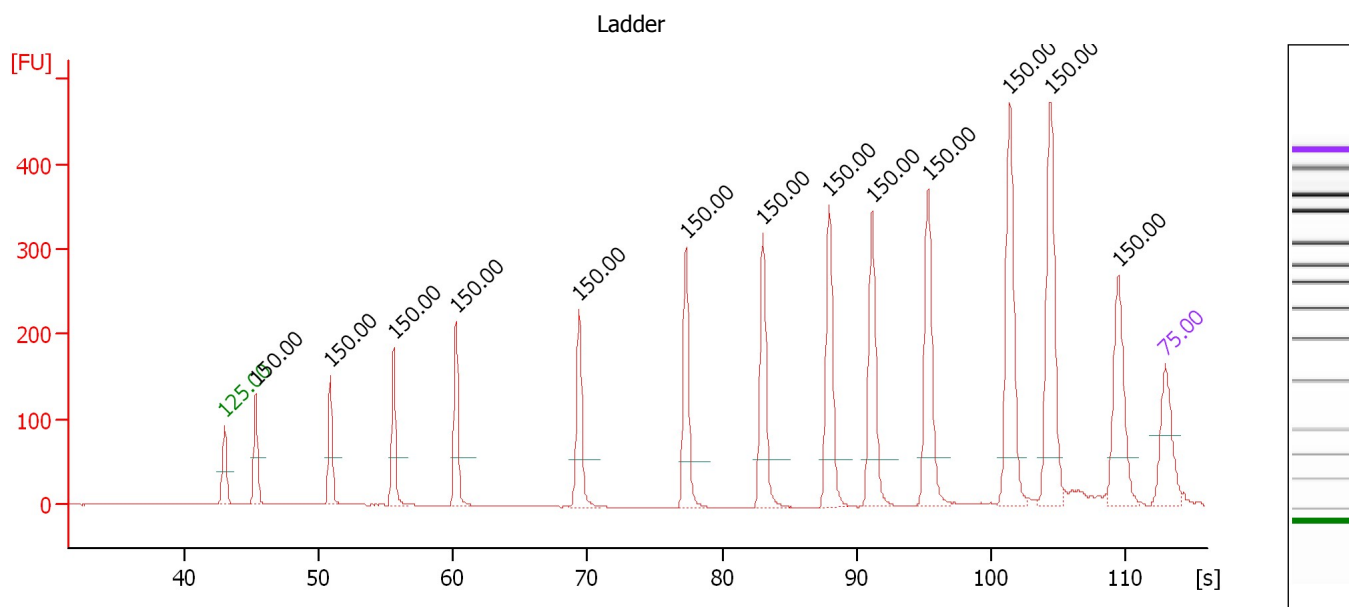
Peak table for sample 11 : sample 11

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

Region table for sample 11 : sample 11

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	97.3	34	420	45.1	783.21	3,632.4	Blue

Created: 1/28/2014 3:02:22 PM
Modified: 1/28/2014 3:43:52 PM



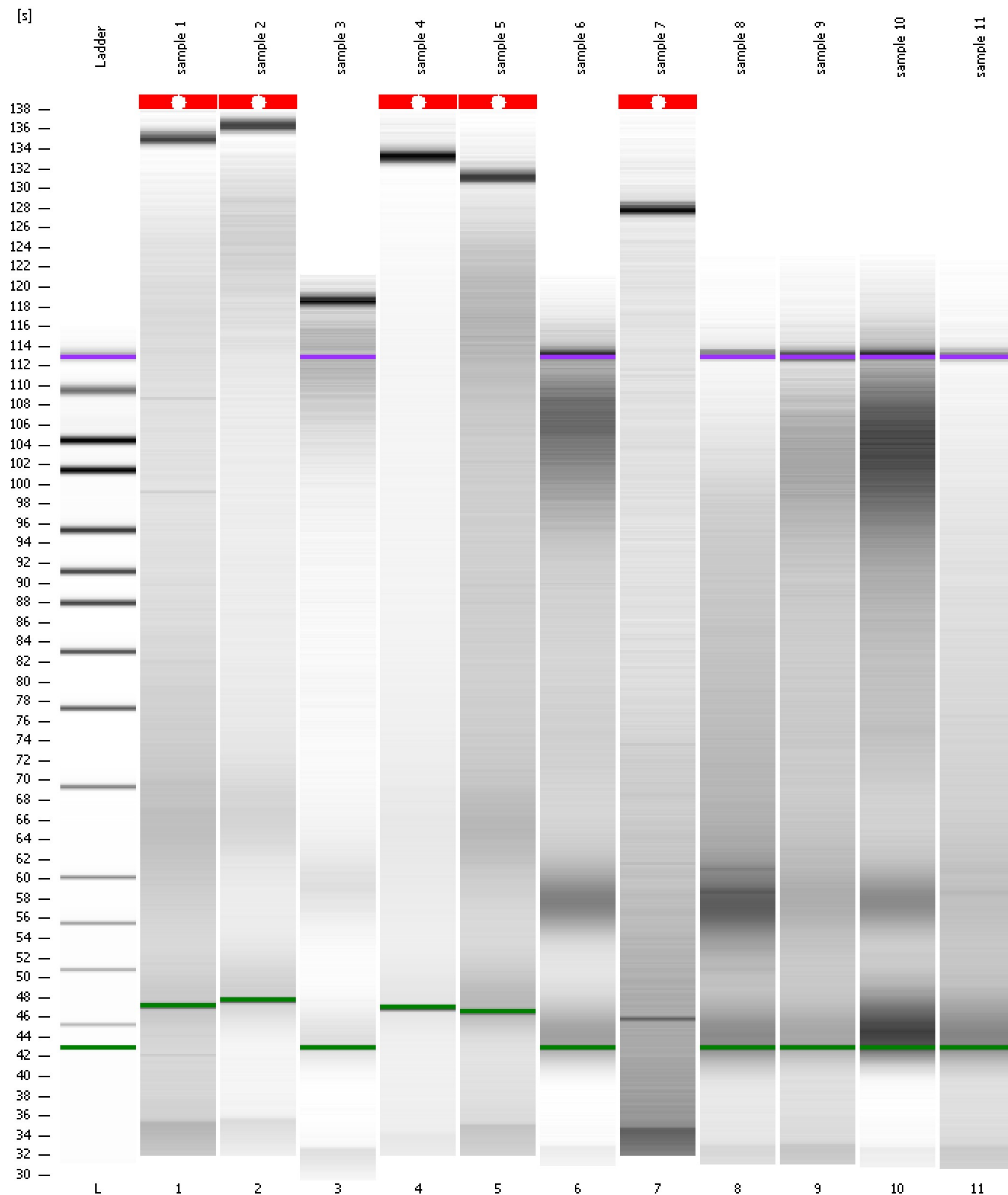
Height Threshold [FU] :	20	Baseline Plateau [s] :	0.3
Area Threshold :	0		

Noise: 0.3

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

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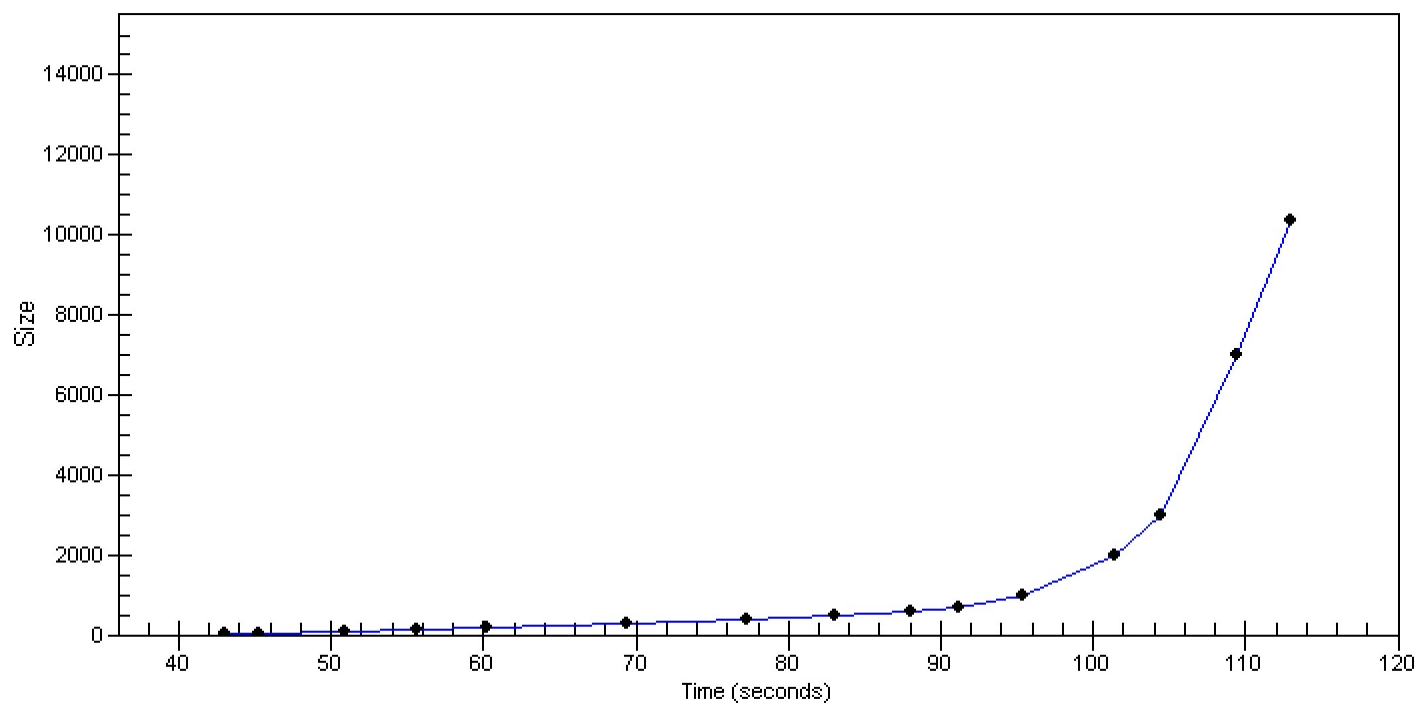
Gel Image

Assay Class: High Sensitivity DNA Assay
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Curves

Standard Curve



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Run Logbook

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		1/28/2014 3:43:43 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-01-28\2100 expert_High Sensitivity DNA Assay_DE72901330_2014-01-28_15-02-22.xad)		Instrument	Run		1/28/2014 3:02:29 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Product Number : G2939A		Instrument	Run		1/28/2014 3:02:29 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Name :		Instrument	Run		1/28/2014 3:02:29 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Vendor : Agilent Technologies		Instrument	Run		1/28/2014 3:02:29 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Serial# : DE72901330		Instrument	Run		1/28/2014 3:02:29 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Firmware : C.01.069		Instrument	Run		1/28/2014 3:02:29 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48
Cartridge : Electrode		Instrument	Run		1/28/2014 3:02:29 PM	(GMT --05:00) Eastern Standard Time	foran103	RUTGERS-4341 E48