

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

Created: 12/3/2014 9:58:15 AM  
Modified: 12/3/2014 10:28:11 AM

**Electrophoresis File Run Summary**

Instrument Information:

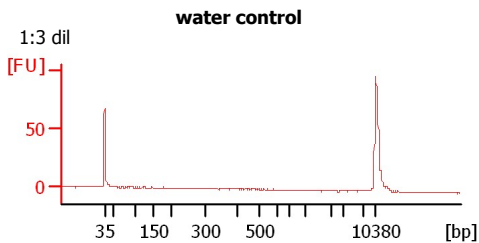
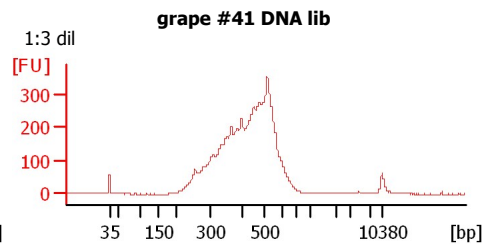
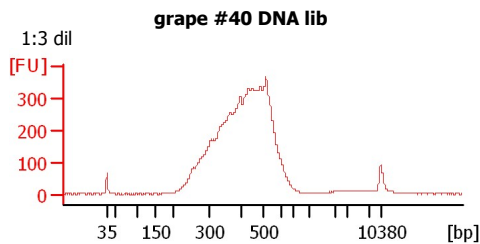
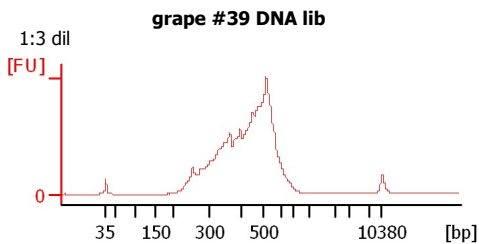
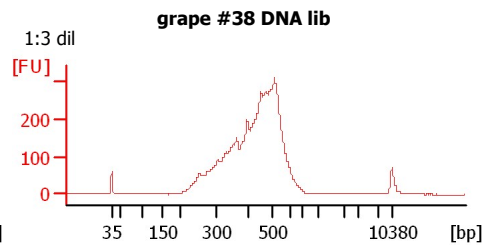
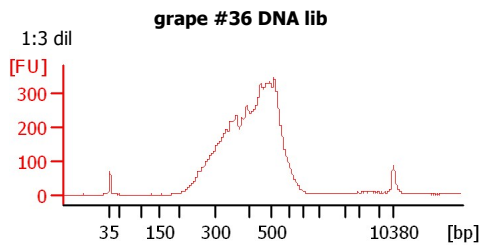
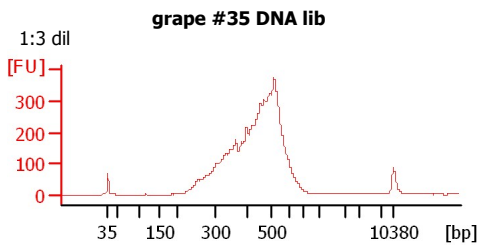
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
grape #35 DNA lib	1:3 dil	<input type="checkbox"/>	✓			
grape #36 DNA lib	1:3 dil	<input type="checkbox"/>	✓			
grape #38 DNA lib	1:3 dil	<input type="checkbox"/>	✓			
grape #39 DNA lib	1:3 dil	<input type="checkbox"/>	✓			
grape #40 DNA lib	1:3 dil	<input type="checkbox"/>	✓			
grape #41 DNA lib	1:3 dil	<input type="checkbox"/>	✓			
water control	1:3 dil	<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 :**

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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/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

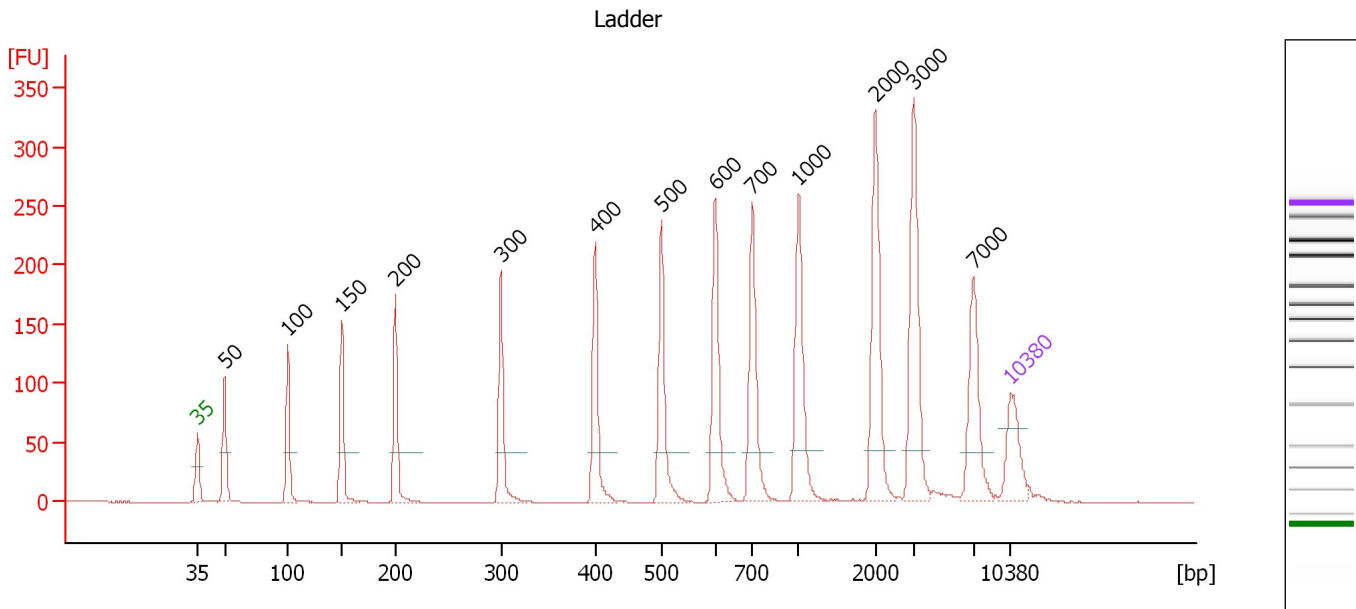
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

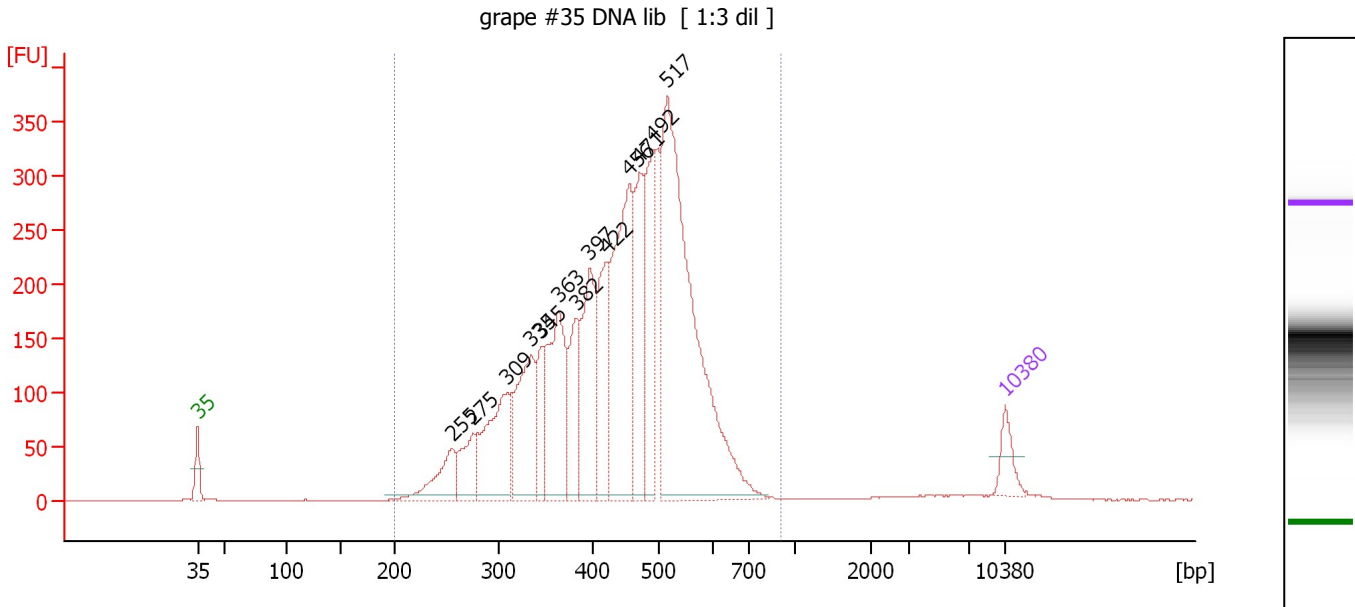
**Peak table for Ladder**

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

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : grape #35 DNA lib**

Number of peaks found: 13                      Corr. Area 1: 5,520.4  
 Noise: 0.2

**Peak table for sample 1 : grape #35 DNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	223.03	1,324.5	
3	275	193.46	1,064.1	
4	309	461.21	2,261.9	
5	335	435.66	1,973.1	
6	345	163.63	719.1	
7	363	557.09	2,325.4	
8	382	270.11	1,070.5	
9	397	461.43	1,763.1	
10	422	340.39	1,222.6	
11	456	824.22	2,739.1	
12	471	439.47	1,412.7	
13	492	413.56	1,272.4	
14	517	1,743.75	5,113.8	
15	10,380	75.00	10.9	Upper Marker

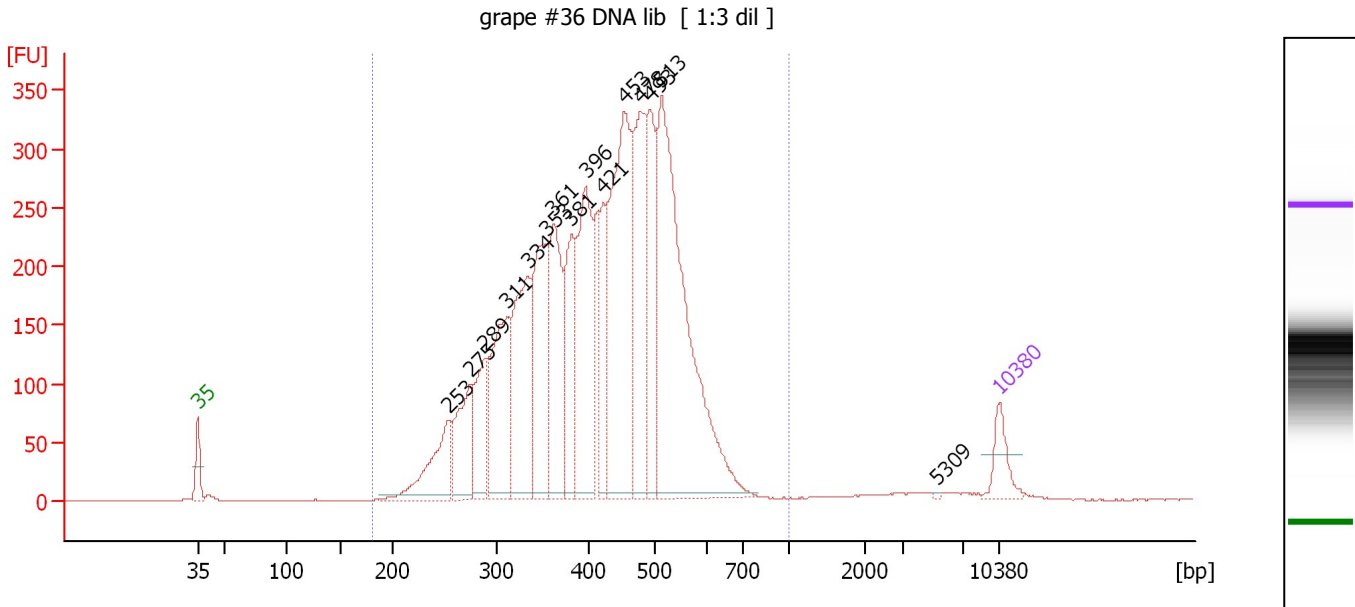
**Region table for sample 1 : grape #35 DNA lib**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	443	914	5,520.4	99	21.7	6,866.59	25,409.6	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : grape #36 DNA lib**

Number of peaks found: 15                      Corr. Area 1: 6,516.2  
 Noise: 0.3

**Peak table for sample 2 : grape #36 DNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	293.72	1,758.2	
3	275	299.06	1,646.7	
4	289	250.69	1,314.2	
5	311	505.17	2,459.3	
6	334	555.83	2,524.4	
7	353	489.83	2,101.8	
8	361	463.95	1,946.5	
9	381	317.33	1,263.1	
10	396	580.36	2,219.8	
11	421	231.68	832.8	
12	453	954.19	3,188.5	
13	478	514.28	1,630.2	
14	493	366.89	1,128.2	
15	513	1,343.20	3,965.7	
16	5,309	2.84	0.8	
17	10,380	75.00	10.9	Upper Marker

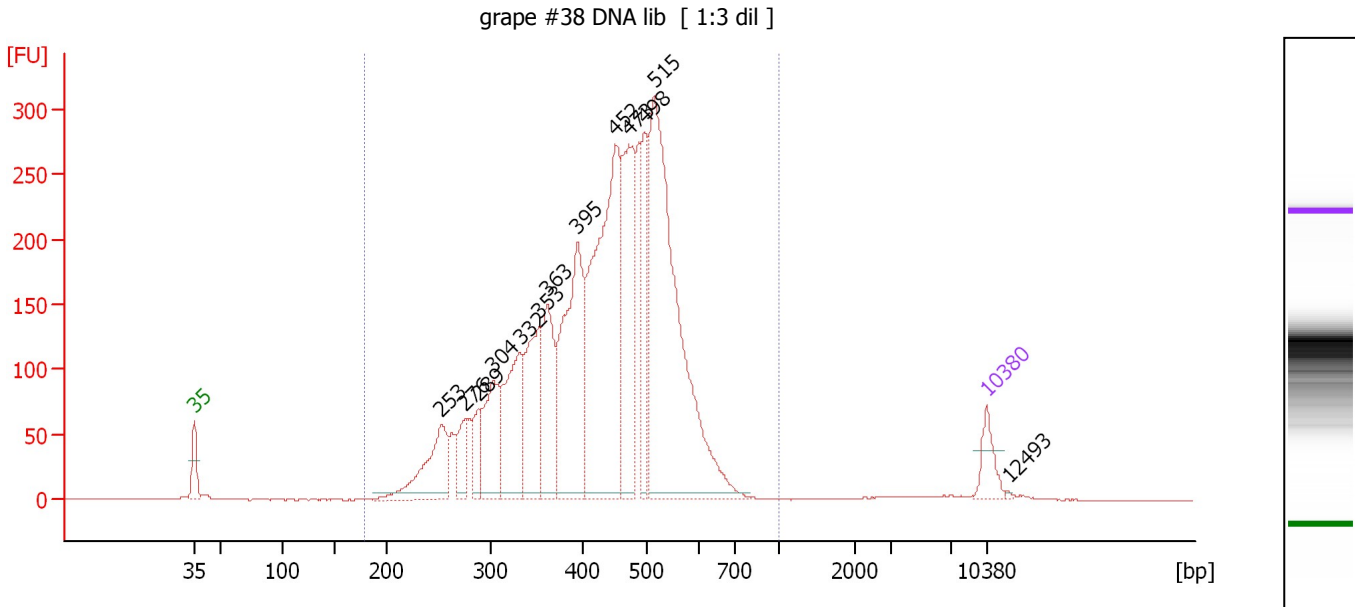
**Region table for sample 2 : grape #36 DNA lib**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
181	422	1,000	6,516.2	99	22.7	7,370.82	28,732.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : grape #38 DNA lib**

Number of peaks found: 13                      Corr. Area 1: 4,829.2  
 Noise: 0.3

**Peak table for sample 3 : grape #38 DNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	365.02	2,188.1	
3	276	140.58	771.4	
4	289	137.04	718.3	
5	304	326.65	1,627.9	
6	332	434.11	1,978.5	
7	353	424.10	1,821.6	
8	363	354.82	1,482.6	
9	395	747.13	2,865.1	
10	452	1,271.53	4,264.0	
11	473	582.60	1,864.8	
12	498	320.08	973.5	
13	515	1,576.78	4,638.3	
14	10,380	75.00	10.9	Upper Marker
15	12,493	0.00	0.0	

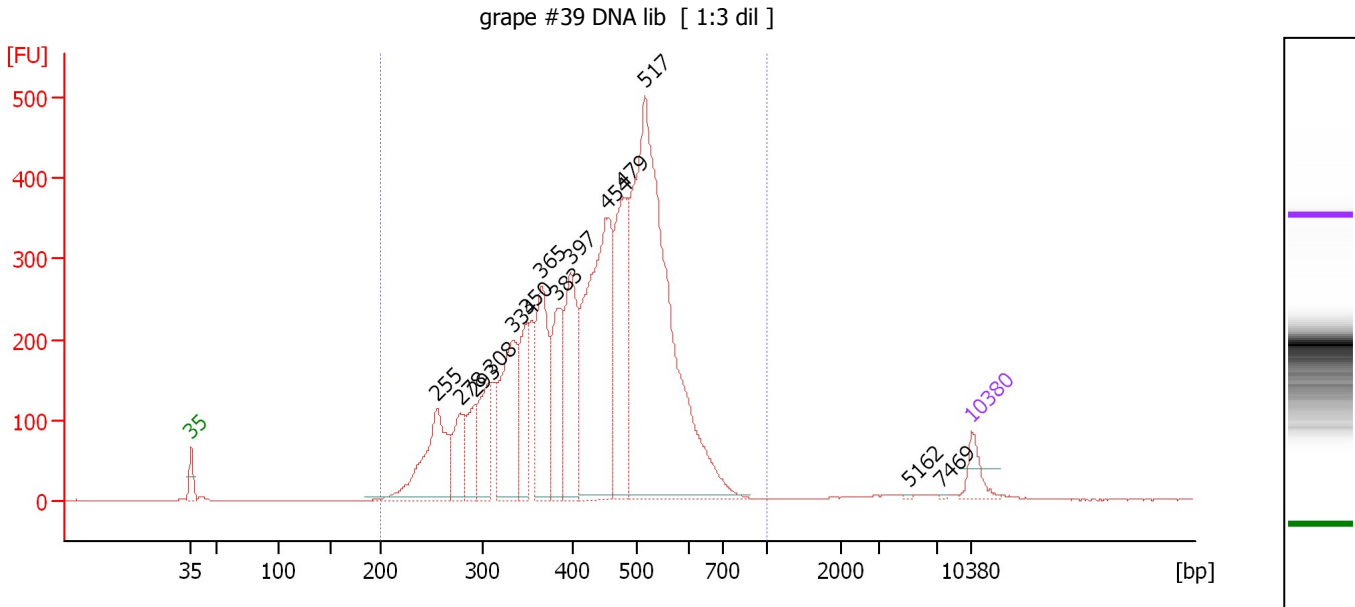
**Region table for sample 3 : grape #38 DNA lib**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
179	434	1,000	4,829.2	99	22.1	7,037.04	26,678.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : grape #39 DNA lib**

Number of peaks found: 14                      Corr. Area 1: 7,433.4  
 Noise: 0.4

**Peak table for sample 4 : grape #39 DNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	592.48	3,515.9	
3	278	224.33	1,220.5	
4	293	196.96	1,019.6	
5	308	294.05	1,445.0	
6	334	549.40	2,494.9	
7	350	304.20	1,318.6	
8	365	506.67	2,100.6	
9	383	373.64	1,477.7	
10	397	530.26	2,022.5	
11	454	1,247.23	4,161.7	
12	479	630.17	1,992.1	
13	517	2,517.13	7,378.3	
14	5,162	3.06	0.9	
15	7,469	3.37	0.7	
16	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : grape #39 DNA lib**

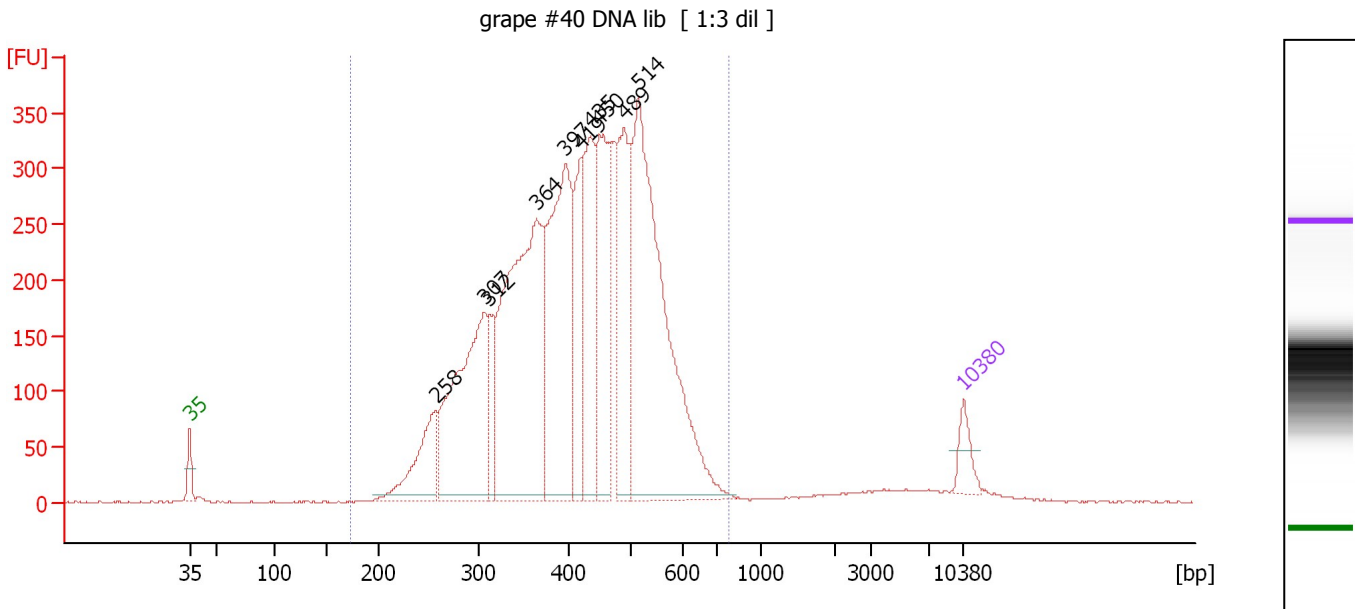
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	436	1,000	7,433.4	99	23.2	8,342.96	31,735.9	Blue



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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : grape #40 DNA lib**

Number of peaks found: 10                      Corr. Area 1: 7,156.6  
 Noise: 0.5

**Peak table for sample 5 : grape #40 DNA lib**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	258	377.20	2,217.8	
3	307	1,079.39	5,332.9	
4	312	213.51	1,036.8	
5	364	1,632.23	6,790.0	
6	397	1,090.89	4,164.8	
7	419	369.45	1,335.2	
8	435	581.18	2,022.8	
9	450	629.30	2,120.1	
10	489	636.38	1,973.1	
11	514	1,720.16	5,068.7	
12	10,380	75.00	10.9	Upper Marker

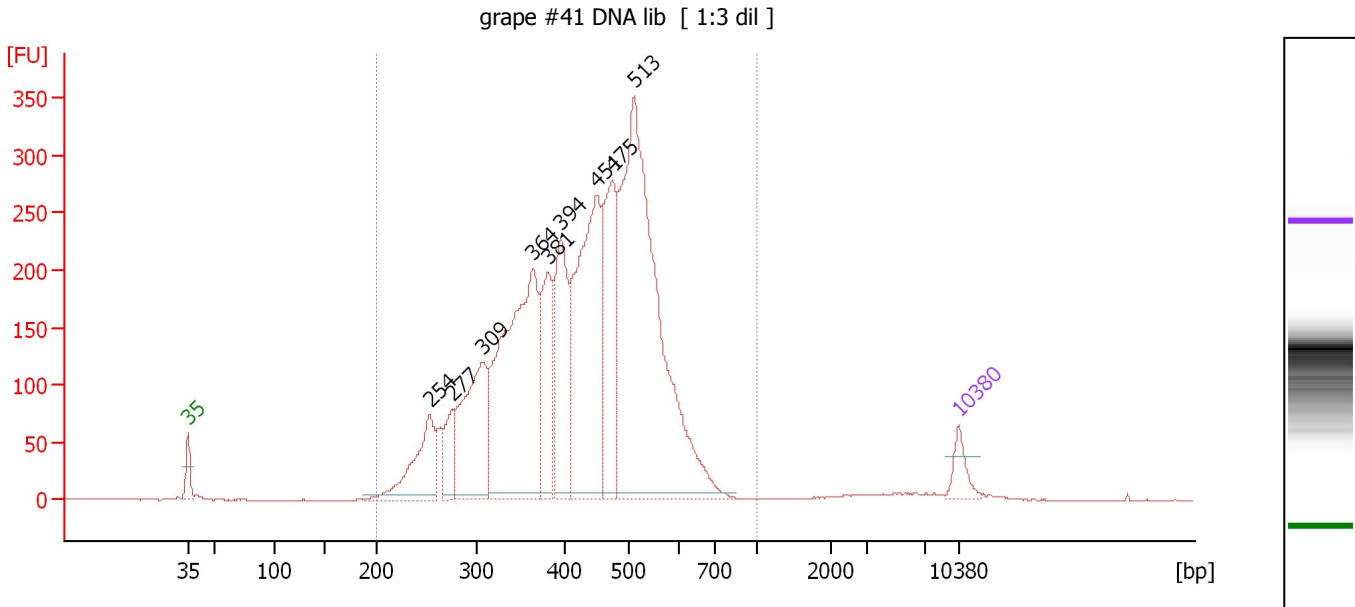
**Region table for sample 5 : grape #40 DNA lib**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
173	422	774	7,156.6	98	22.8	8,754.92	34,150.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : grape #41 DNA lib**

Number of peaks found: 9                      Corr. Area 1: 5,592.4  
 Noise: 0.4

**Peak table for sample 6 : grape #41 DNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	254	445.72	2,659.7	
3	277	184.32	1,008.9	
4	309	698.01	3,426.8	
5	364	1,503.42	6,257.3	
6	381	450.56	1,793.1	
7	394	571.45	2,195.2	
8	451	1,194.12	4,014.1	
9	475	663.70	2,115.3	
10	513	2,337.97	6,910.6	
11	10,380	75.00	10.9	Upper Marker

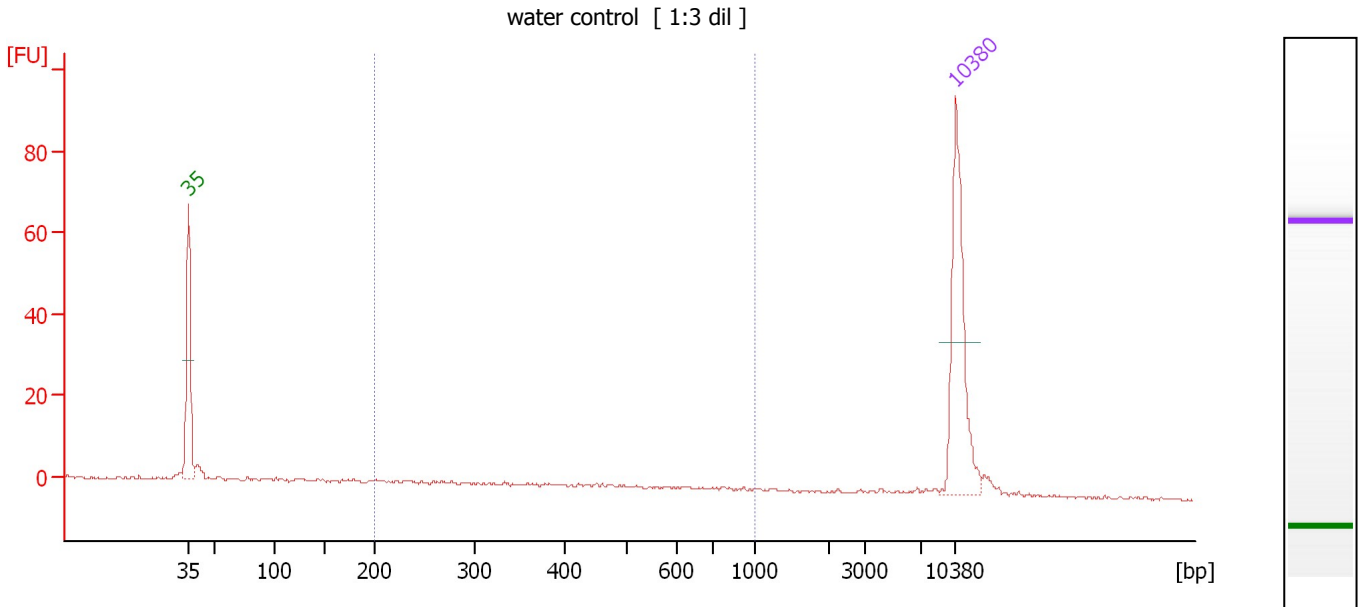
**Region table for sample 6 : grape #41 DNA lib**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	430	1,000	5,592.4	99	23.0	8,221.27	31,586.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : water control**

Number of peaks found: 0                      Corr. Area 1: 29.7  
 Noise: 0.4

**Peak table for sample 7 : water control**

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 : water control**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	429	1,000	29.7	36	42.2	31.58	139.9	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

Created: 12/3/2014 9:58:15 AM  
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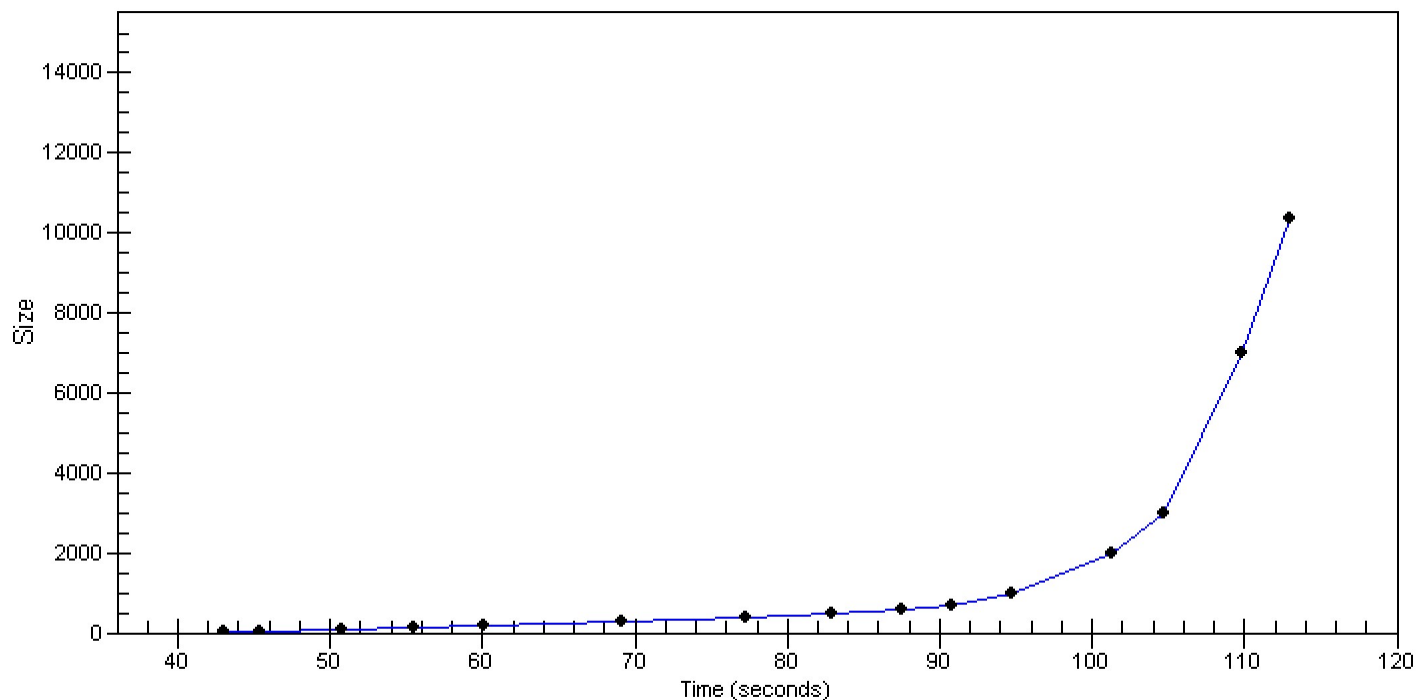
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

Created: 12/3/2014 9:58:15 AM  
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**Curves**

**Standard Curve**



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**Invalid Samples**

Sample 8 has not been run, no results available.

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.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-03\2014-12-03\_001.xad

Created: 12/3/2014 9:58:15 AM  
 Modified: 12/3/2014 10:28:11 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		12/3/2014 10:28:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-03\2014-12-03_001.xad)		Instrument	Run		12/3/2014 9:58:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/3/2014 9:58:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/3/2014 9:58:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/3/2014 9:58:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/3/2014 9:58:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/3/2014 9:58:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/3/2014 9:58:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1