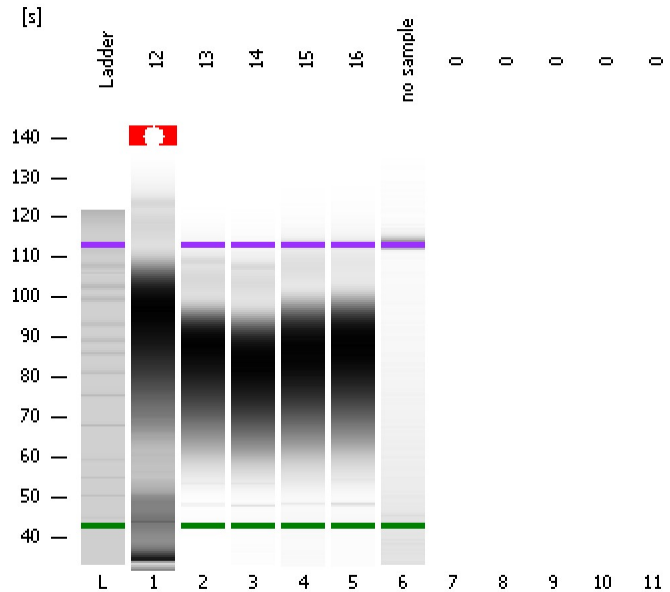


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

Created: 5/20/2015 9:36:34 AM
Modified: 5/20/2015 10:55:03 AM

Electrophoresis File Run Summary



Instrument Information:

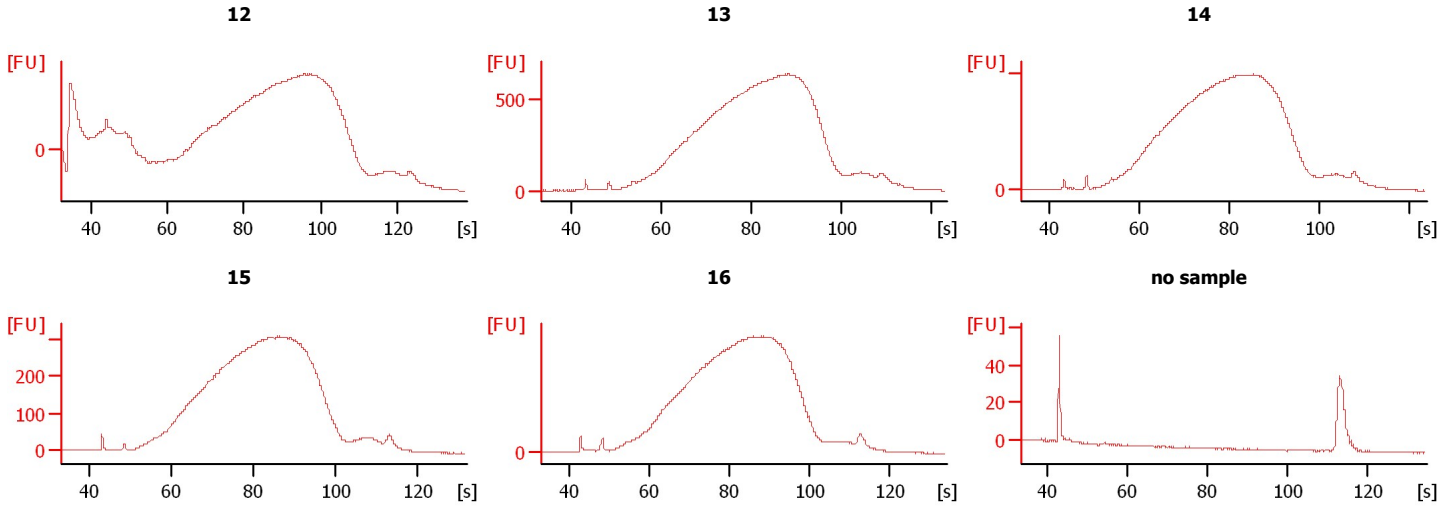
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

Created: 5/20/2015 9:36:34 AM
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
12		<input type="checkbox"/>	✓			
13		<input type="checkbox"/>	✓			
14		<input type="checkbox"/>	✓			
15		<input type="checkbox"/>	✓			
16		<input type="checkbox"/>	✓			
no sample		<input type="checkbox"/>	✓			
0		<input type="checkbox"/>				
0		<input type="checkbox"/>				
0		<input type="checkbox"/>				
0		<input type="checkbox"/>				
0		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

Created: 5/20/2015 9:36:34 AM
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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

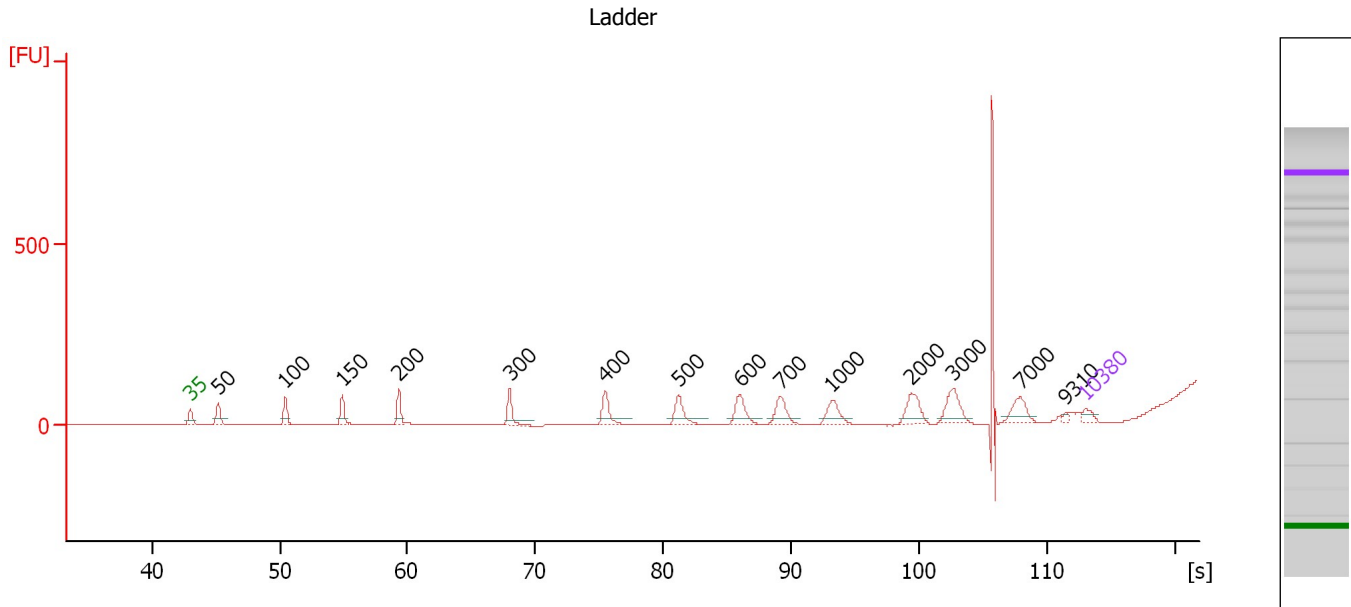
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

Created: 5/20/2015 9:36:34 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

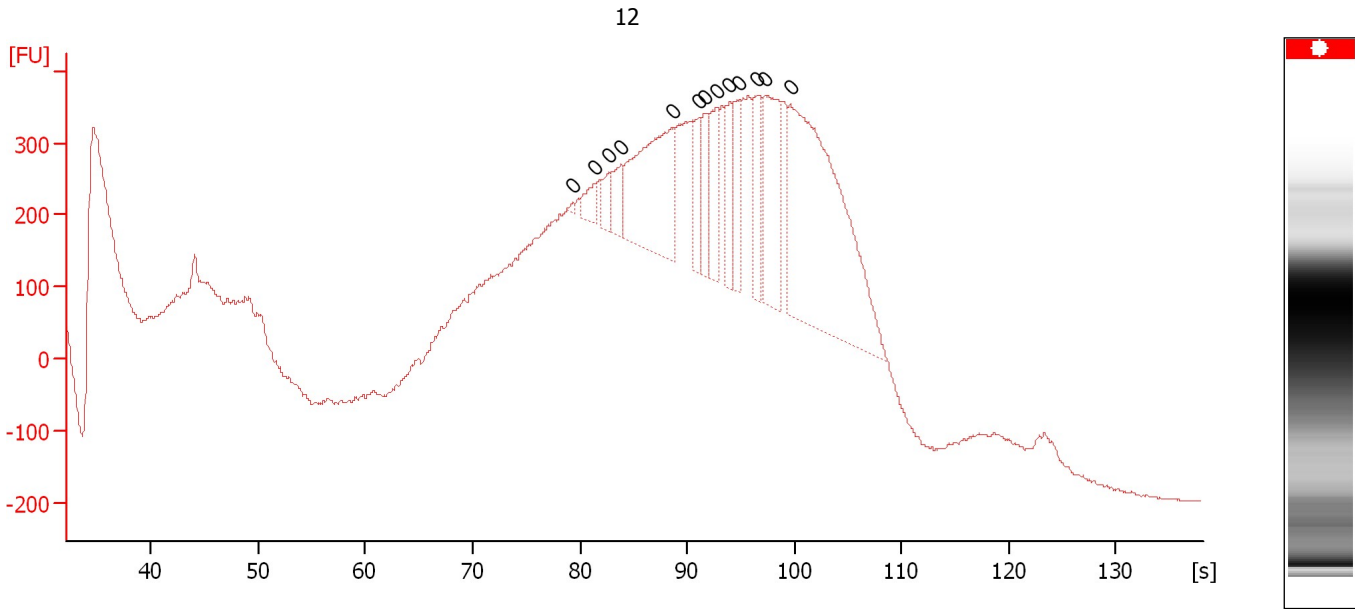
Peak table for Ladder

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	45.17
3	100	150.00	2,272.7	Ladder Peak	50.44
4	150	150.00	1,515.2	Ladder Peak	54.91
5	200	150.00	1,136.4	Ladder Peak	59.34
6	300	150.00	757.6	Ladder Peak	67.99
7	400	150.00	568.2	Ladder Peak	75.47
8	500	150.00	454.5	Ladder Peak	81.20
9	600	150.00	378.8	Ladder Peak	86.00
10	700	150.00	324.7	Ladder Peak	89.14
11	1,000	150.00	227.3	Ladder Peak	93.19
12	2,000	150.00	113.6	Ladder Peak	99.42
13	3,000	150.00	75.8	Ladder Peak	102.68
14	7,000	150.00	32.5	Ladder Peak	107.99
15	9,310	0.00	0.0		111.41
16	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 12

Number of peaks found: 0 Noise: 1.3

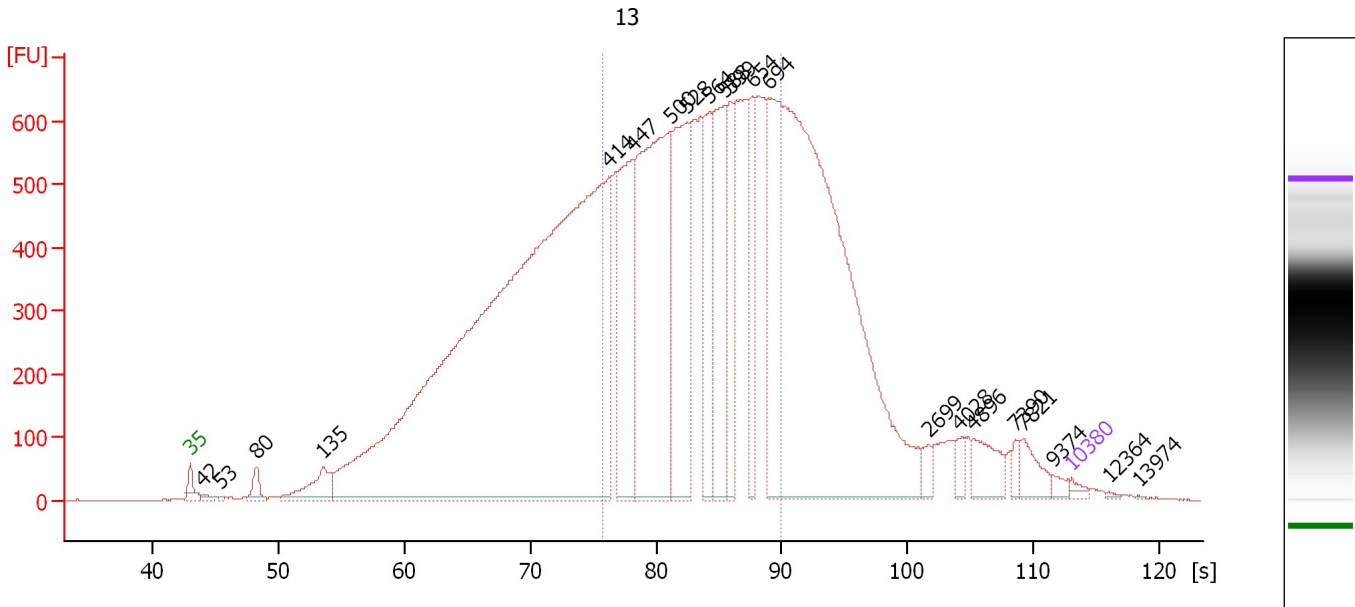
Peak table for sample 1 : 12

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		79.30
2	0	0.00	0.0		81.35
3	0	0.00	0.0		82.70
4	0	0.00	0.0		83.90
5	0	0.00	0.0		88.60
6	0	0.00	0.0		91.10
7	0	0.00	0.0		91.65
8	0	0.00	0.0		92.80
9	0	0.00	0.0		93.95
10	0	0.00	0.0		94.85
11	0	0.00	0.0		96.60
12	0	0.00	0.0		97.30
13	0	0.00	0.0		99.60

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 13

Number of peaks found: 21 Corr. Area 1: 10,768.8
 Noise: 1.3

Peak table for sample 2 : 13

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	42	113.64	4,093.2		44.02
3	53	33.44	958.4		45.47
4	80	365.32	6,954.4		48.29
5	135	958.69	10,750.8		53.58
6	414	26,363.54	96,488.1		76.27
7	447	2,975.36	10,090.5		78.15
8	500	6,637.96	20,128.4		81.18
9	528	3,330.62	9,557.5		82.54
10	564	1,626.12	4,365.4		84.29
11	588	2,524.72	6,501.7		85.44
12	599	1,305.55	3,302.3		85.96
13	654	1,327.58	3,074.3		87.70
14	694	15,890.25	34,704.2		88.94
15	2,699	170.66	95.8		101.70
16	4,028	173.79	65.4		104.04
17	4,896	513.02	158.8		105.19
18	7,390	127.63	26.2		108.56
19	7,821	385.67	74.7		109.20
20	9,374	104.26	16.9		111.51
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,364	0.00	0.0		115.94
23	13,974	0.00	0.0		118.33

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

Created: 5/20/2015 9:36:34 AM
Modified: 5/20/2015 10:55:03 AM

Electropherogram Summary Continued ...

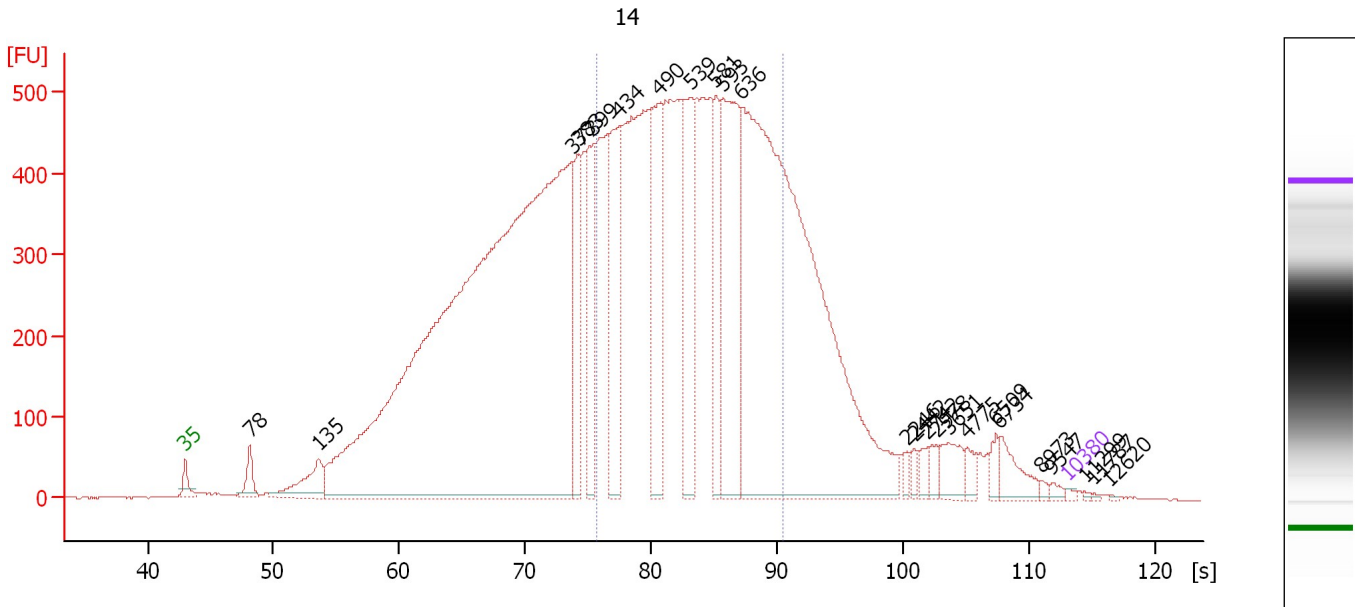
... Region table for sample 2 : 13

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
407	550	759	10,768.8	91,101.9	42	16.5	31,929.96	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 14

Number of peaks found: 24 Corr. Area 1: 9,089.7
 Noise: 1.2

Peak table for sample 3 : 14

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	78	1,286.28	25,014.3		48.11
3	135	2,522.37	28,216.7		53.61
4	377	66,987.38	269,127.4		73.76
5	383	3,395.92	13,440.4		74.19
6	399	4,681.04	17,785.8		75.38
7	434	6,070.37	21,186.8		77.42
8	490	6,170.59	19,083.2		80.62
9	539	5,341.46	15,003.5		83.09
10	581	3,103.99	8,093.6		85.09
11	593	8,817.99	22,511.8		85.69
12	636	36,377.67	86,630.6		87.14
13	2,246	243.88	164.6		100.22
14	2,442	273.24	169.6		100.86
15	2,742	380.56	210.3		101.84
16	2,978	402.59	204.9		102.60
17	3,651	978.94	406.2		103.54
18	4,775	453.21	143.8		105.03
19	6,509	441.93	102.9		107.33
20	6,734	1,040.36	234.1		107.63
21	8,973	109.53	18.5		110.91
22	9,547	141.91	22.5		111.76
23	10,380	75.00	10.9	Upper Marker	113.00
24	11,299	0.00	0.0		114.36
25	11,787	0.00	0.0		115.09


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...**... Peak table for sample 3 : 14**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	12,620	0.00	0.0		116.32

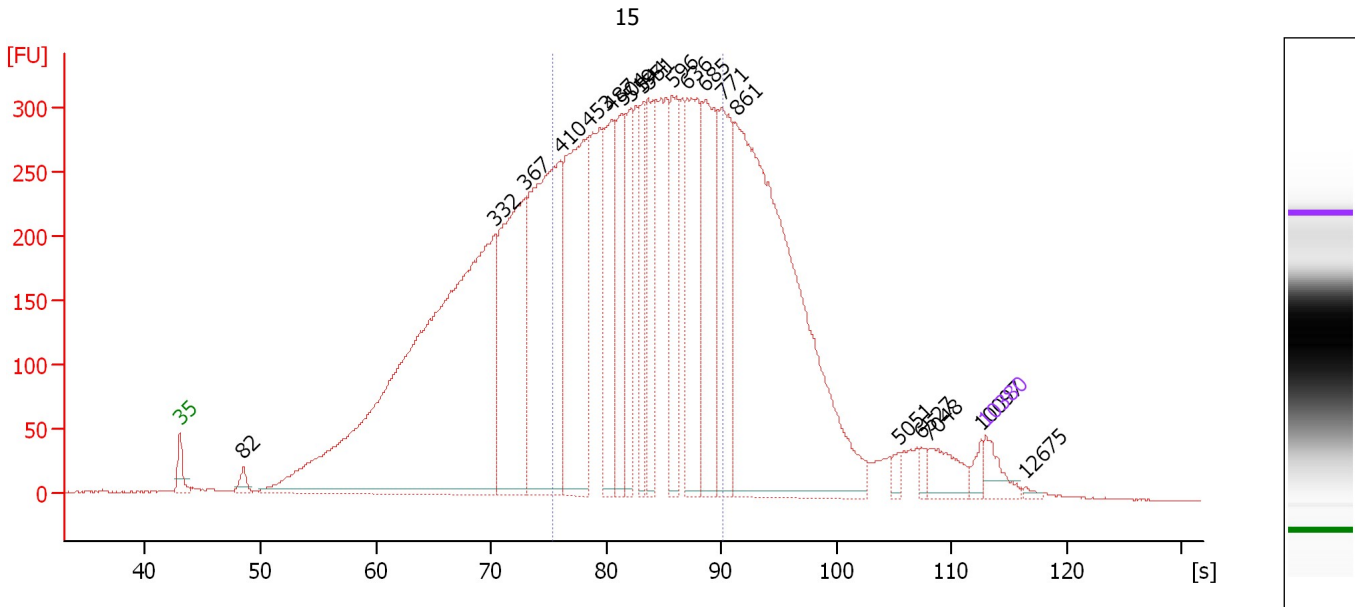
Region table for sample 3 : 14

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Color
404	550	795	9,089.7	243,317.2	43	17.6	84,914.30	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 15

Number of peaks found: 20 Corr. Area 1: 5,449.5
 Noise: 0.6

Peak table for sample 4 : 15

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	82	58.59	1,087.7		48.50
3	332	3,713.21	16,952.7		70.38
4	367	1,086.68	4,489.0		72.99
5	410	1,383.06	5,116.8		76.02
6	453	1,091.36	3,652.6		78.49
7	487	499.77	1,555.1		80.45
8	504	433.09	1,302.4		81.38
9	519	316.01	921.9		82.13
10	544	287.71	801.9		83.29
11	551	352.97	969.9		83.67
12	596	394.65	1,003.3		85.81
13	636	639.51	1,524.6		87.12
14	685	593.24	1,312.8		88.66
15	771	575.44	1,130.3		90.10
16	861	2,412.21	4,244.3		91.31
17	5,051	27.65	8.3		105.40
18	6,527	24.20	5.6		107.36
19	7,048	111.93	24.1		108.06
20	10,097	33.98	5.1		112.58
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,675	0.00	0.0		116.40

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...

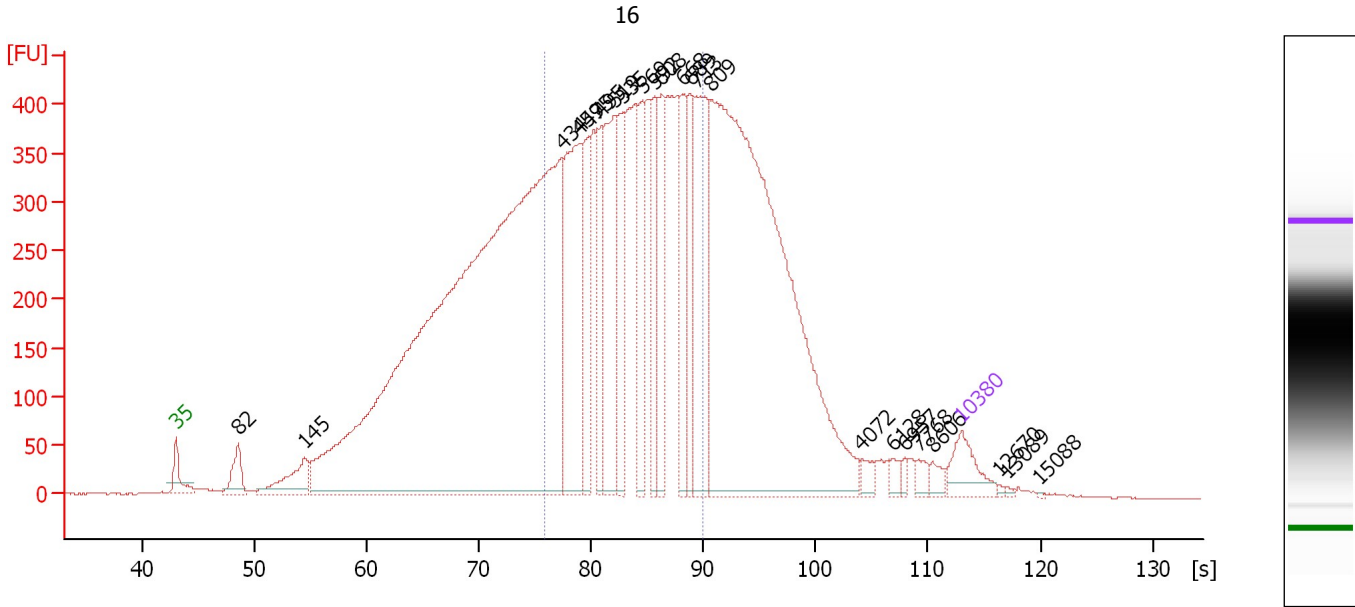
... Region table for sample 4 : 15

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
399	548	773	5,449.5	19,722.3	43	17.4	6,858.31	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 16

Number of peaks found: 23 Corr. Area 1: 6,722.0
 Noise: 0.7

Peak table for sample 5 : 16

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	82	96.18	1,775.7		48.55
3	145	142.74	1,489.2		54.48
4	434	3,743.87	13,078.9		77.40
5	459	534.97	1,766.7		78.84
6	475	226.14	720.6		79.79
7	495	214.72	657.6		80.89
8	519	347.43	1,015.0		82.09
9	535	255.85	725.2		82.86
10	569	220.27	586.1		84.53
11	592	200.97	514.1		85.63
12	608	199.88	498.1		86.25
13	668	201.49	457.3		88.12
14	689	187.40	412.2		88.79
15	713	413.01	877.4		89.32
16	809	2,141.57	4,011.8		90.61
17	4,072	21.86	8.1		104.10
18	6,128	17.78	4.4		106.83
19	6,957	12.65	2.8		107.93
20	7,768	21.60	4.2		109.12
21	8,606	20.55	3.6		110.37
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,670	0.00	0.0		116.40
24	13,089	0.00	0.0		117.02
25	15,088	0.00	0.0		119.99

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...

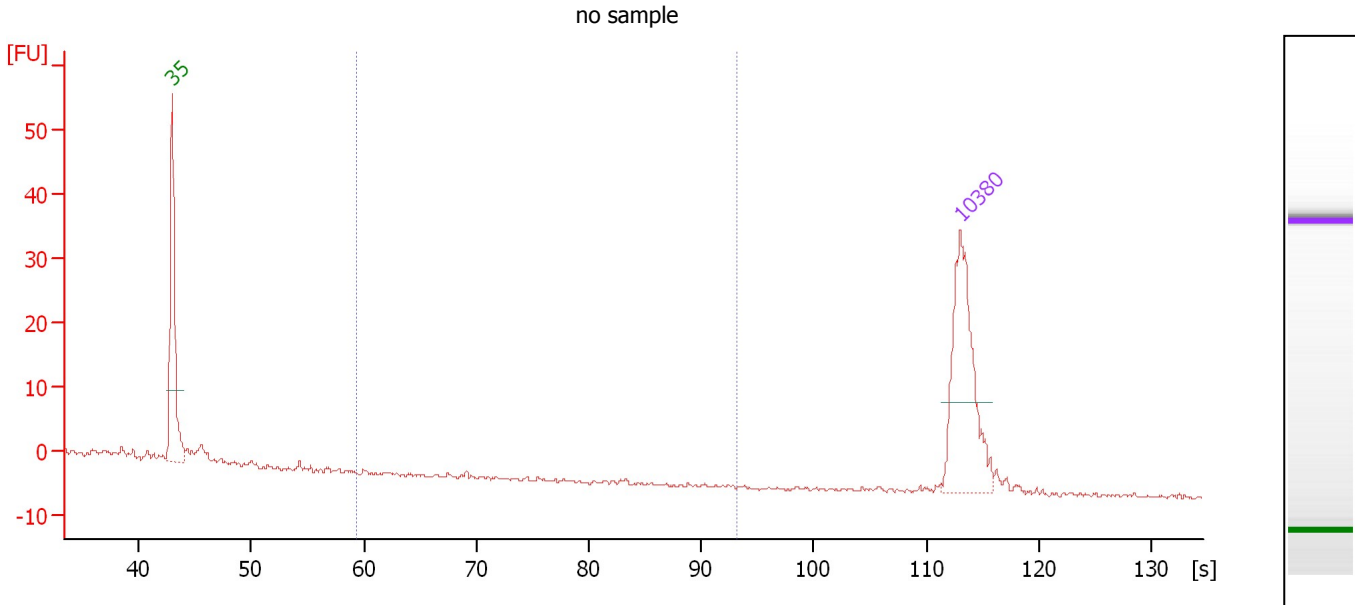
... Region table for sample 5 : 16

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
407	550	756	6,722.0	12,360.0	40	16.4	4,328.87	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : no sample

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 6 : no sample

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : no sample

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	0	1,000	0.0	0.0	0	0.0	0.00	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20_001.xad

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Gel Image

