

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-05\2019-07-05_001.xad

Created: 7/5/2019 10:32:16 AM
Modified: 7/5/2019 11:13:34 AM

Electrophoresis File Run Summary

Instrument Information:

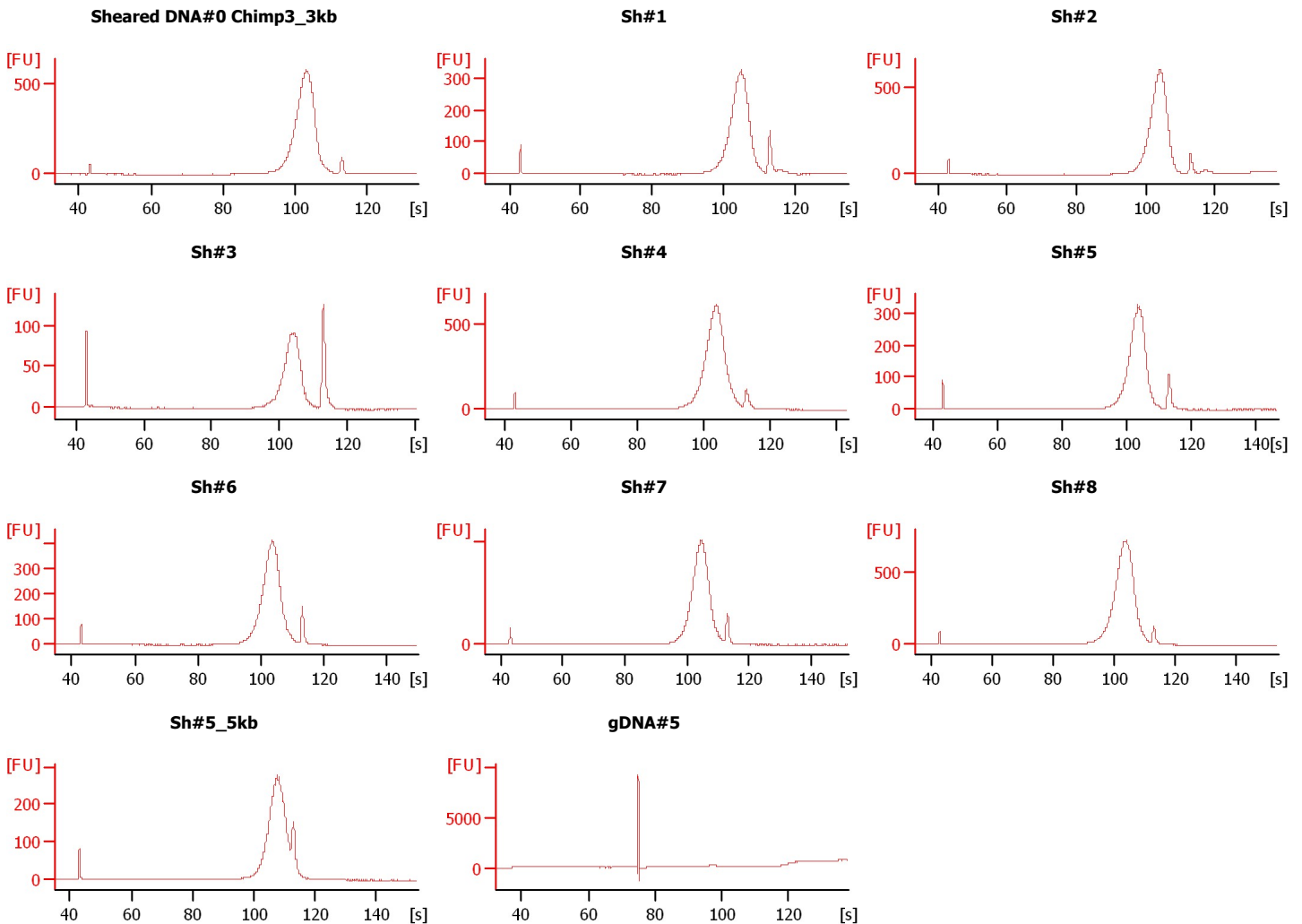
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
Sheared DNA#0 Chimp3_3kb		<input type="checkbox"/>				
Sh#1		<input type="checkbox"/>				
Sh#2		<input type="checkbox"/>				
Sh#3		<input type="checkbox"/>				
Sh#4		<input type="checkbox"/>				
Sh#5		<input type="checkbox"/>				
Sh#6		<input type="checkbox"/>				
Sh#7		<input type="checkbox"/>				
Sh#8		<input type="checkbox"/>				
Sh#5_5kb		<input type="checkbox"/>				
gDNA#5		<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

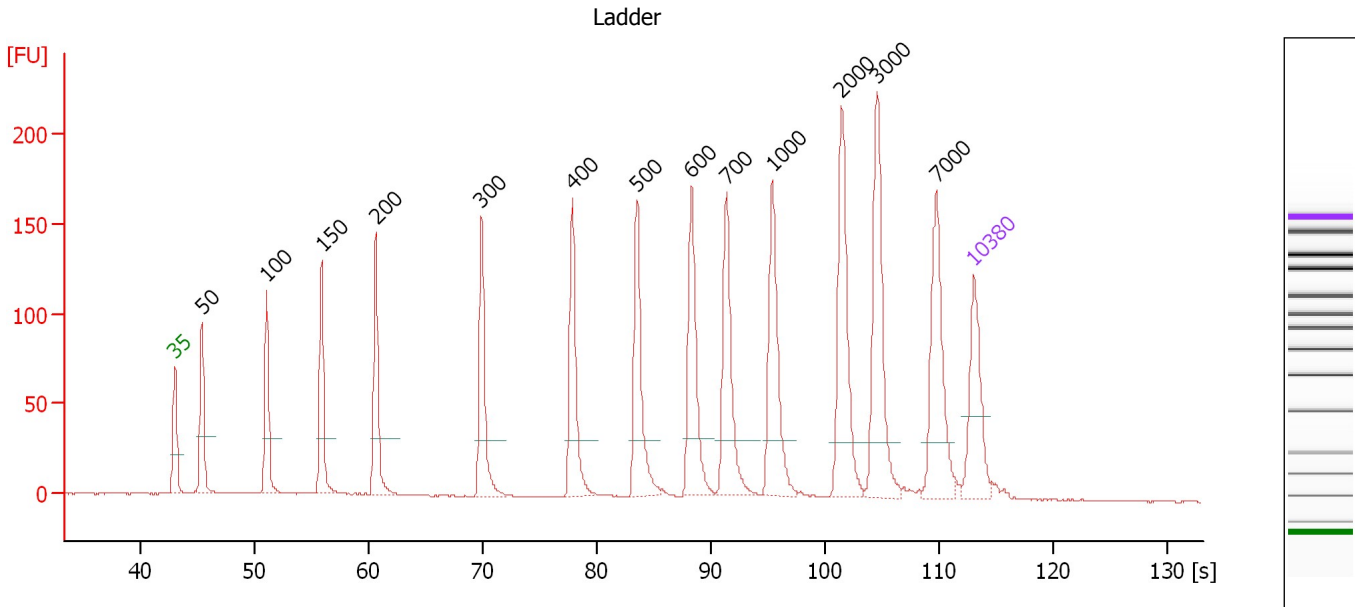
Ladder

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: 0.3

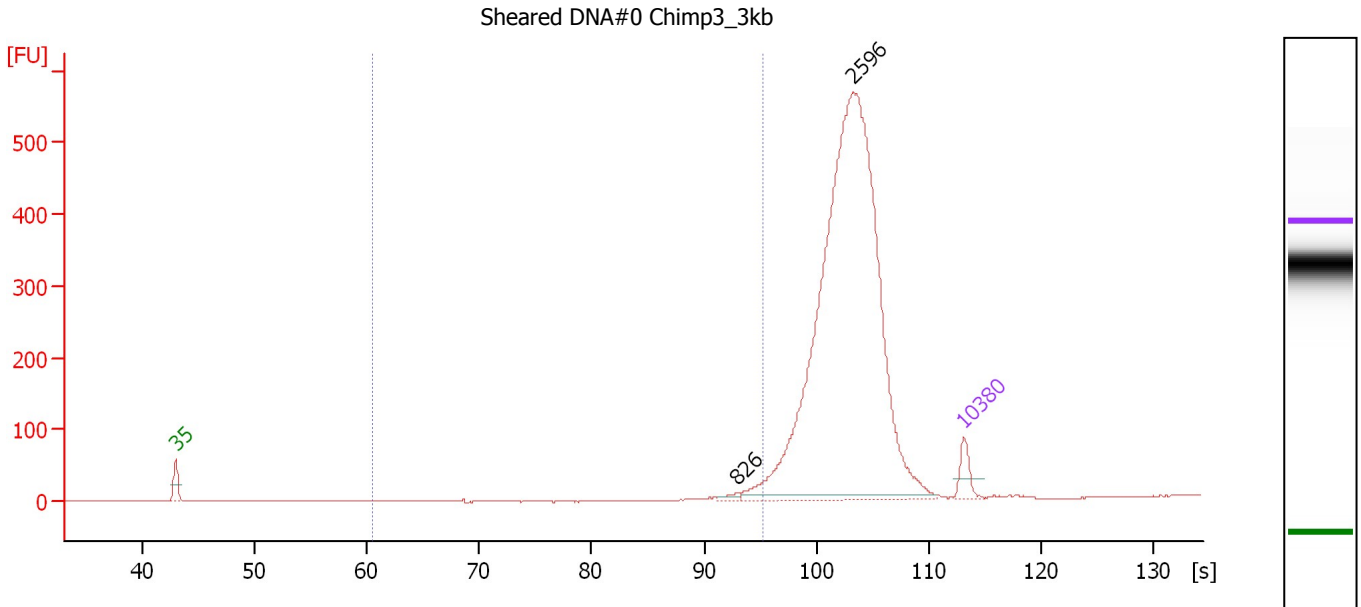
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.84
5	200	150.00	1,136.4	Ladder Peak	60.59
6	300	150.00	757.6	Ladder Peak	69.86
7	400	150.00	568.2	Ladder Peak	77.81
8	500	150.00	454.5	Ladder Peak	83.50
9	600	150.00	378.8	Ladder Peak	88.26
10	700	150.00	324.7	Ladder Peak	91.31
11	1,000	150.00	227.3	Ladder Peak	95.31
12	2,000	150.00	113.6	Ladder Peak	101.38
13	3,000	150.00	75.8	Ladder Peak	104.53
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Sheared DNA#0 Chimp3 3kb

Number of peaks found: 2 Corr. Area 1: 37.1
 Noise: 0.2

Peak table for sample 1 : Sheared DNA#0 Chimp3 3kb

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	826	18.58	34.1		92.99
3	2,596	3,635.10	2,121.5		103.26
4	10,380	75.00	10.9	Upper Marker	113.00

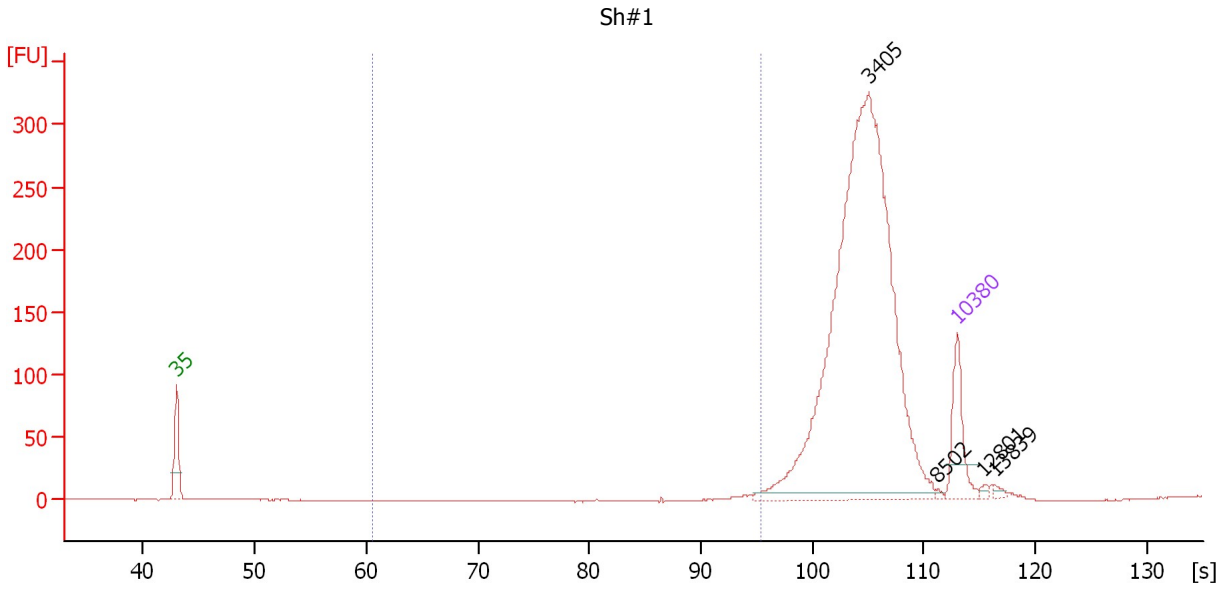
Region table for sample 1 : Sheared DNA#0 Chimp3 3kb

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	906	46.32	37.1	77.5	1	8.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Sh#1

Number of peaks found: 4 Corr. Area 1: 3.9
 Noise: 0.2

Peak table for sample 2 : Sh#1

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	3,405	1,181.99	525.9		105.06
3	8,502	2.42	0.4		111.17
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,801	0.00	0.0		115.36
6	13,839	0.00	0.0		116.37

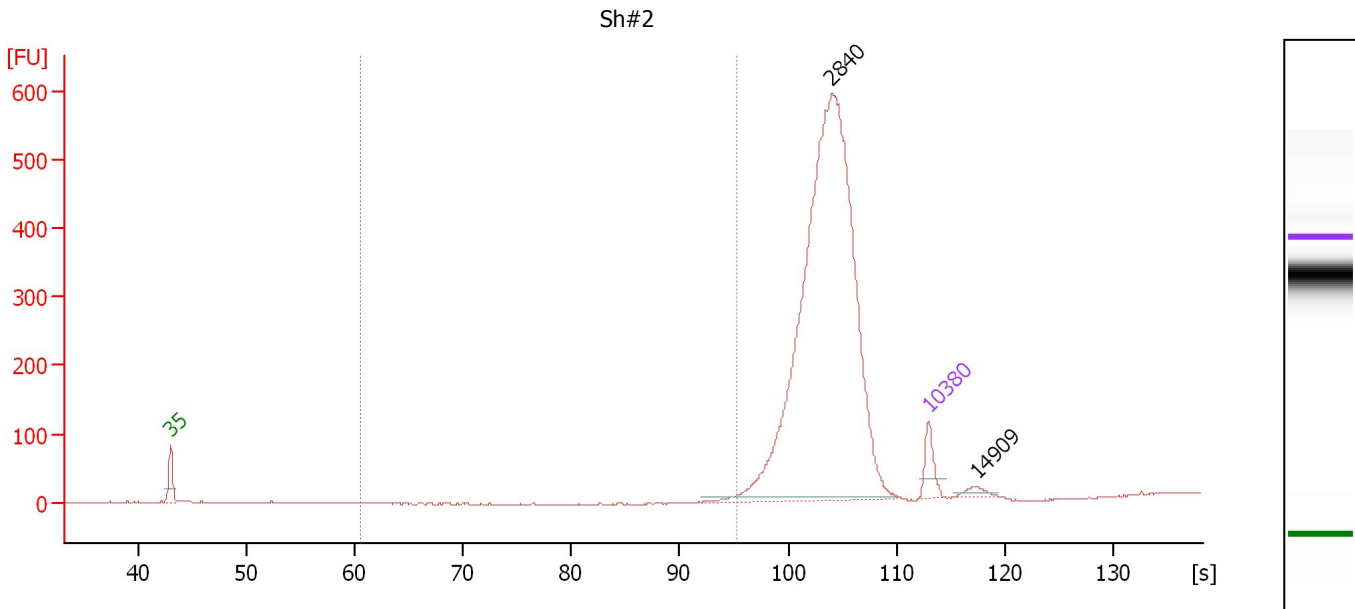
Region table for sample 2 : Sh#1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	951	2.84	3.9	4.5	0	3.8

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Sh#2

Number of peaks found: 2 Corr. Area 1: 0.5
 Noise: 0.3

Peak table for sample 3 : Sh#2

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	2,840	2,702.13	1,441.8		104.03
3	10,380	75.00	10.9	Upper Marker	113.00
4	14,909	0.00	0.0		117.41

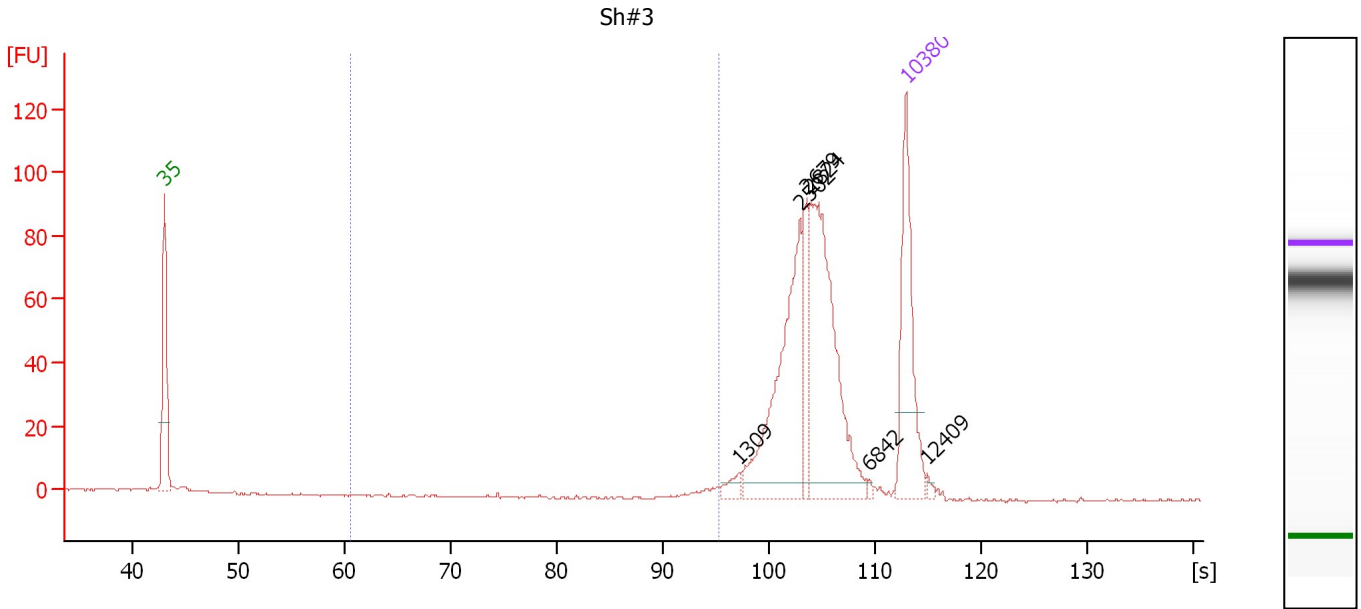
Region table for sample 3 : Sh#2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	982	0.50	0.5	0.8	0	1.1

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Electropherogram Summary Continued ...



Overall Results for sample 4 : Sh#3

Number of peaks found: 6 Corr. Area 1: 3.6
 Noise: 0.2

Peak table for sample 4 : Sh#3

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	1,309	7.63	8.8		97.19
3	2,502	122.47	74.2		102.96
4	2,679	37.41	21.2		103.52
5	2,824	145.97	78.3		103.98
6	6,842	1.97	0.4		109.50
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,409	0.00	0.0		114.98

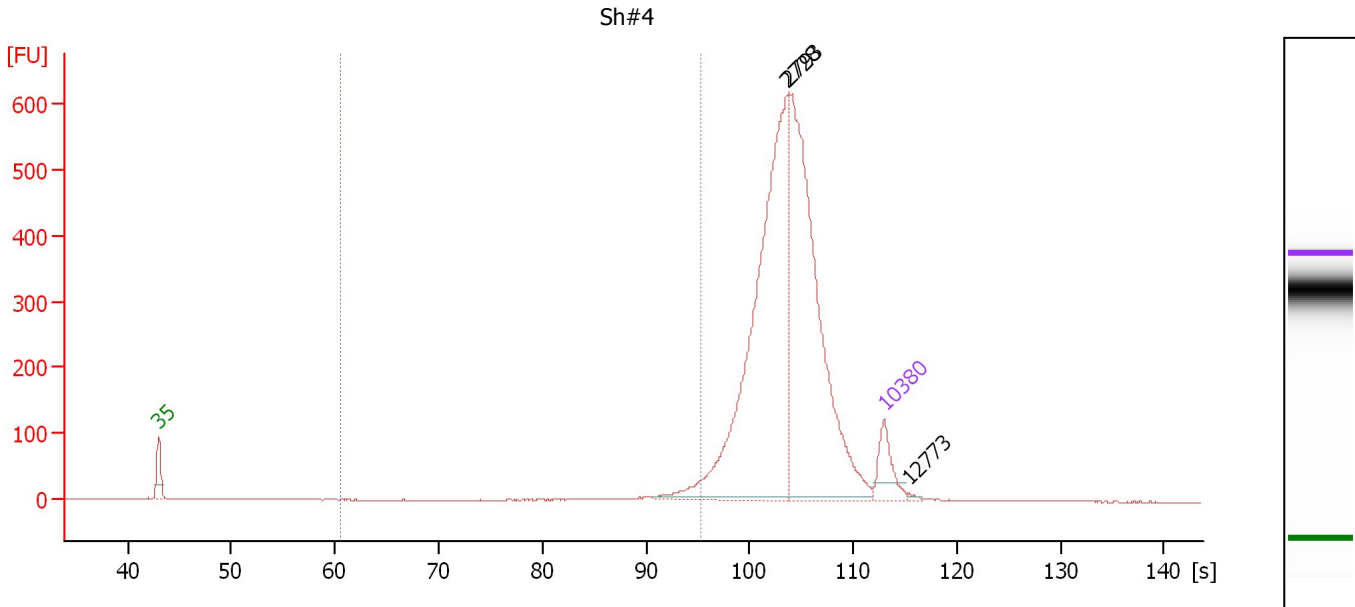
Region table for sample 4 : Sh#3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	923	2.48	3.6	4.1	1	5.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-05\2019-07-05_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : Sh#4

Number of peaks found: 3 Corr. Area 1: 92.3
 Noise: 0.2

Peak table for sample 5 : Sh#4

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	2,728	1,077.70	598.7		103.67
3	2,793	913.04	495.3		103.88
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,773	0.00	0.0		115.33

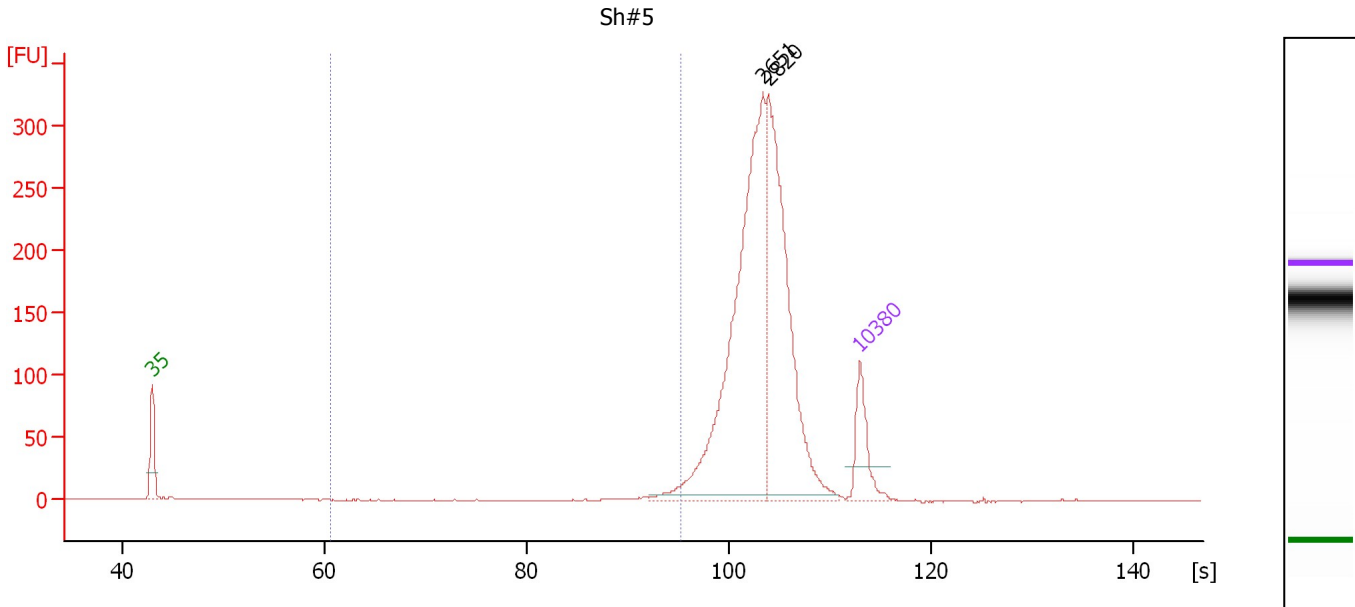
Region table for sample 5 : Sh#4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	804	54.03	92.3	107.4	2	18.9

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 6 : Sh#5

Number of peaks found: 2 Corr. Area 1: 24.1
 Noise: 0.3

Peak table for sample 6 : Sh#5

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	2,651	672.15	384.1		103.43
3	2,820	478.30	257.0		103.96
4	10,380	75.00	10.9	Upper Marker	113.00

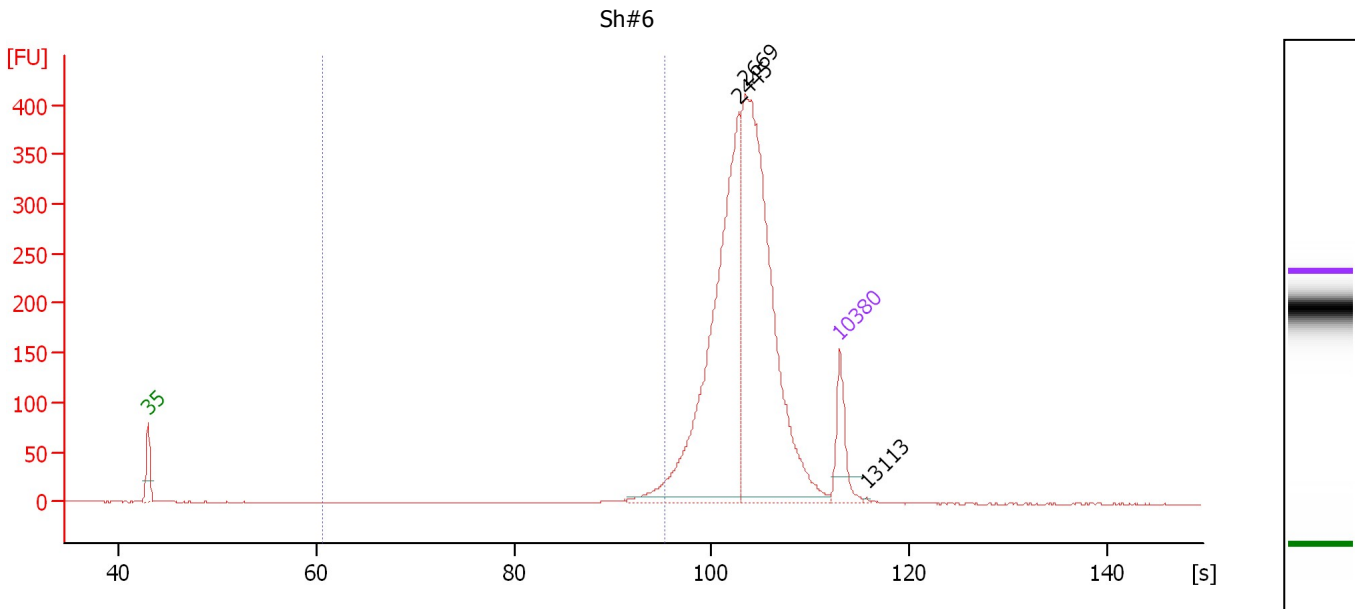
Region table for sample 6 : Sh#5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	860	17.67	24.1	32.0	1	13.7

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Electropherogram Summary Continued ...



Overall Results for sample 7 : Sh#6

Number of peaks found: 3 Corr. Area 1: 45.7
 Noise: 0.2

Peak table for sample 7 : Sh#6

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	2,445	688.72	426.8		102.78
3	2,669	791.23	449.2		103.49
4	10,380	75.00	10.9	Upper Marker	113.00
5	13,113	0.00	0.0		115.66

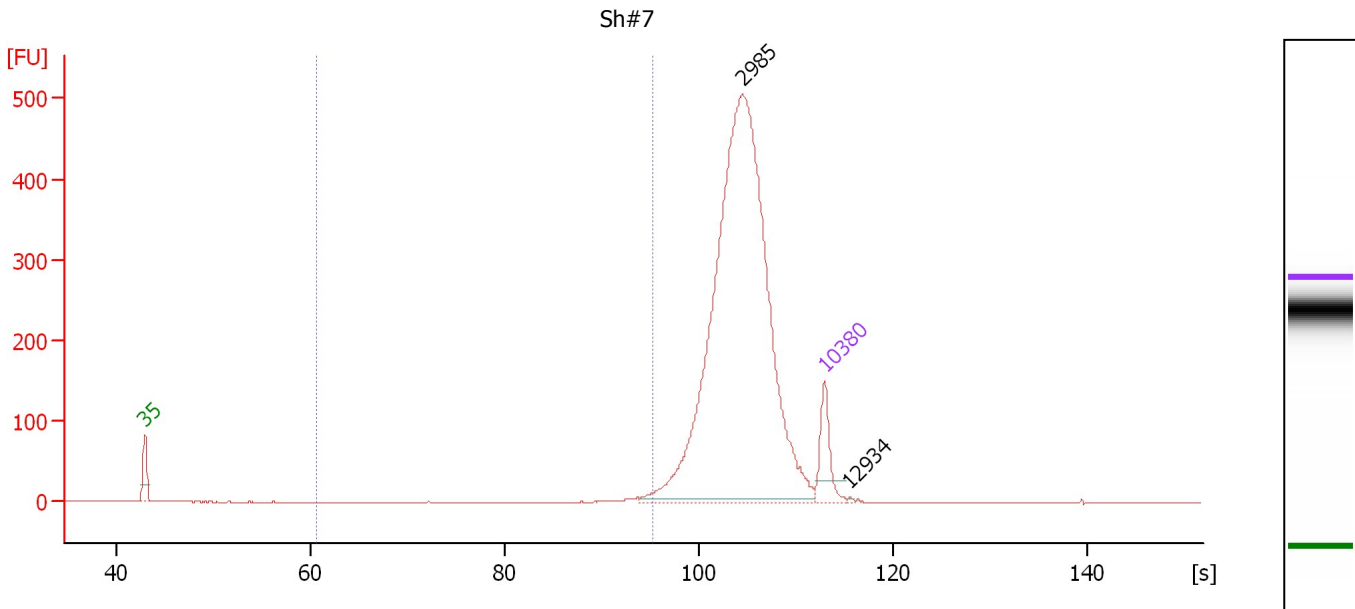
Region table for sample 7 : Sh#6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	864	30.47	45.7	54.3	2	12.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-05\2019-07-05_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : Sh#7

Number of peaks found: 2 Corr. Area 1: 24.3
 Noise: 0.2

Peak table for sample 8 : Sh#7

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	2,985	1,596.41	810.3		104.48
3	10,380	75.00	10.9	Upper Marker	113.00
4	12,934	0.00	0.0		115.49

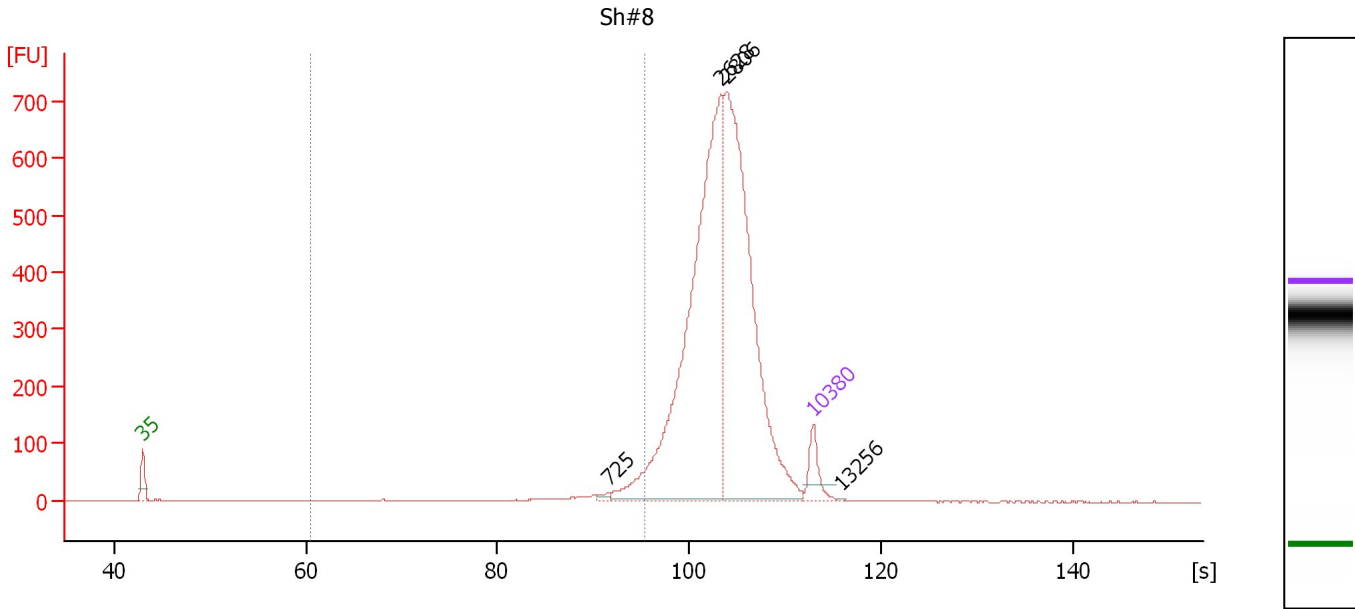
Region table for sample 8 : Sh#7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	865	14.83	24.3	26.5	1	12.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-05\2019-07-05_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Sh#8

Number of peaks found: 4 Corr. Area 1: 174.7
 Noise: 0.3

Peak table for sample 9 : Sh#8

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	725	12.45	26.0		91.65
3	2,628	1,522.97	878.0		103.36
4	2,806	1,332.78	719.7		103.92
5	10,380	75.00	10.9	Upper Marker	113.00
6	13,256	0.00	0.0		115.80

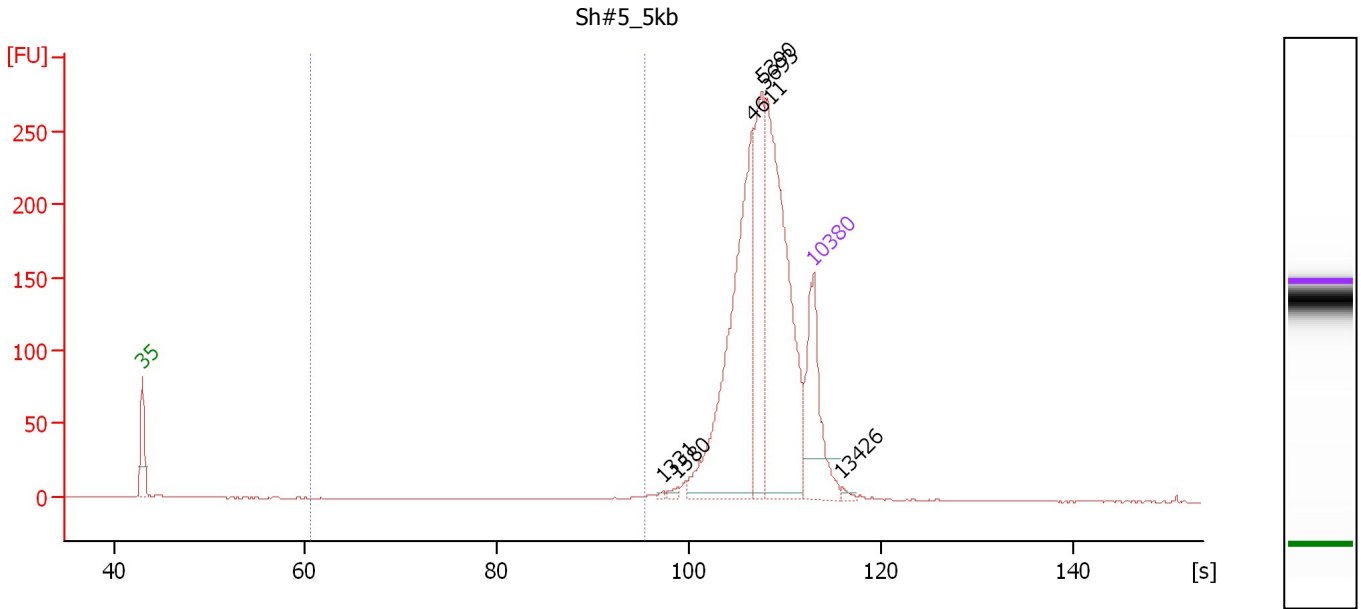
Region table for sample 9 : Sh#8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	772	121.93	174.7	262.5	3	22.4

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Electropherogram Summary Continued ...



Overall Results for sample 10 : Sh#5 5kb

Number of peaks found: 6 Corr. Area 1: 4.2
 Noise: 0.4

Peak table for sample 10 : Sh#5 5kb

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	1,331	1.63	1.9		97.32
3	1,580	3.46	3.3		98.83
4	4,611	223.62	73.5		106.62
5	5,390	107.63	30.3		107.62
6	5,693	235.24	62.6		108.02
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,426	0.00	0.0		115.97

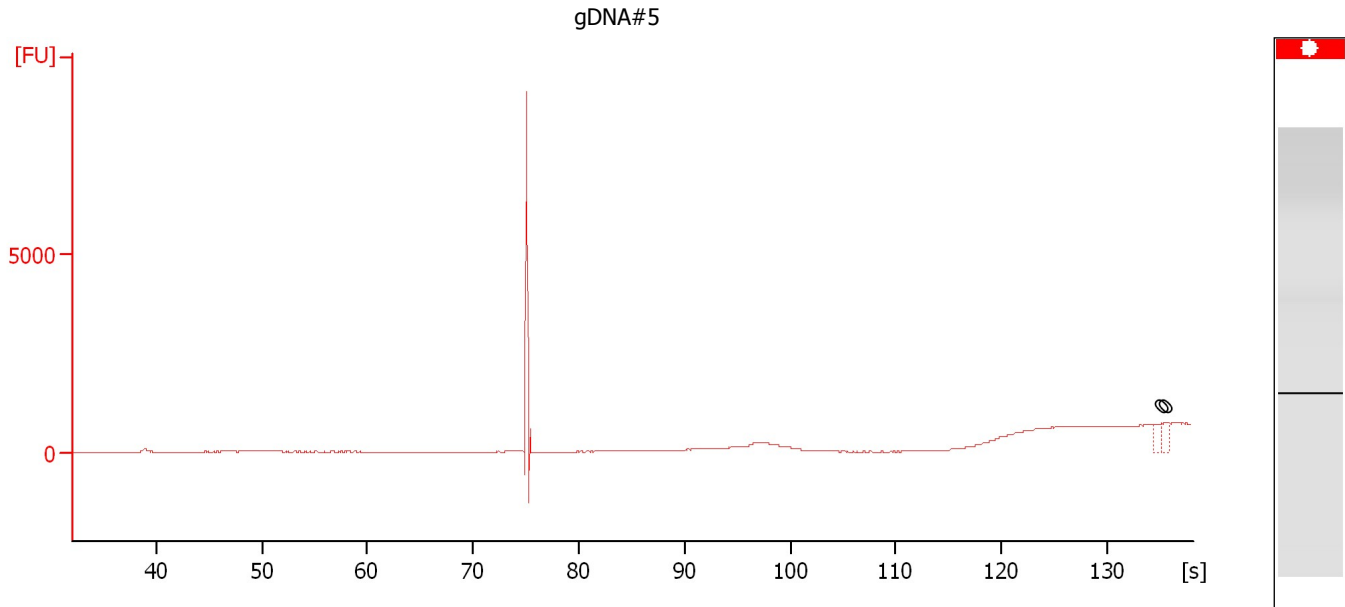
Region table for sample 10 : Sh#5 5kb

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	865	1.74	4.2	3.1	0	13.7

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Electropherogram Summary Continued ...



Overall Results for sample 11 : gDNA#5

Number of peaks found: 0 Noise: 1.6

Peak table for sample 11 : gDNA#5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		135.10
2	0	0.00	0.0		135.45

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-05\2019-07-05_001.xad

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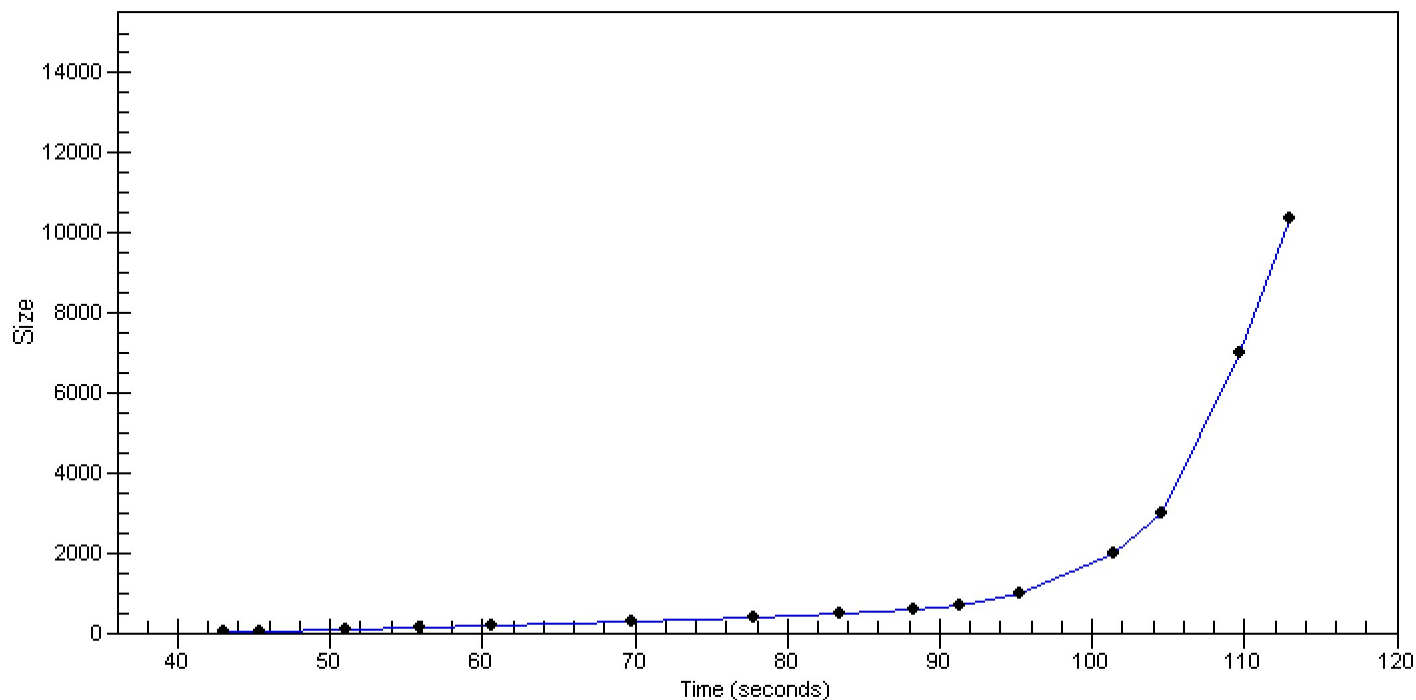
Gel Image

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	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		7/5/2019 11:13:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 11	7/5/2019 11:12:15 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\2019-07-05\2019-07-05_001.xad)		Instrument	Run		7/5/2019 10:32:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/5/2019 10:32:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/5/2019 10:32:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/5/2019 10:32:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/5/2019 10:32:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/5/2019 10:32:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/5/2019 10:32:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1