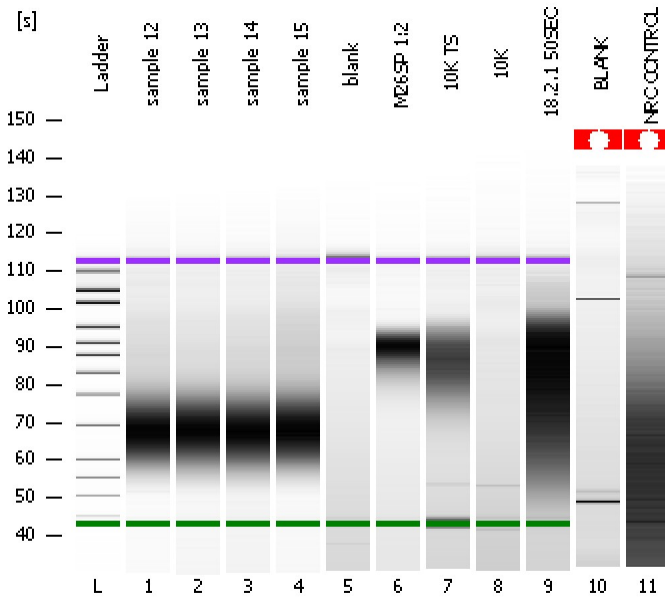


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
Modified: 3/18/2016 1:01:21 PM

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

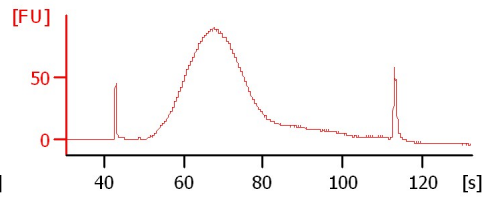
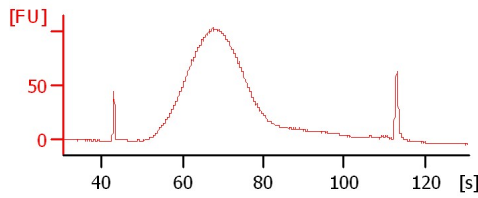
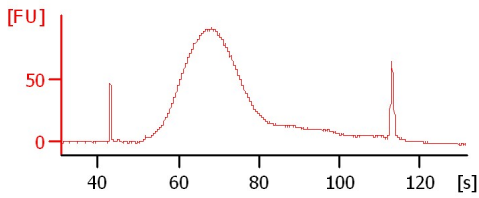
Chip Information:

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

sample 12

sample 13

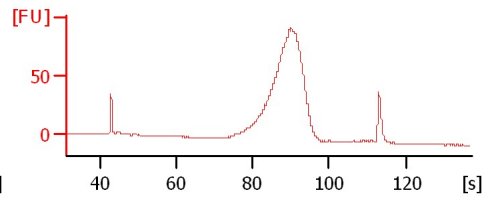
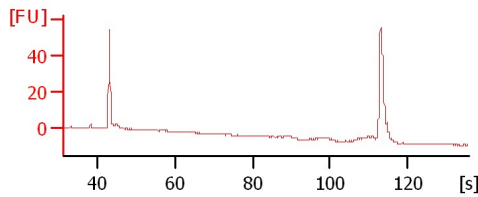
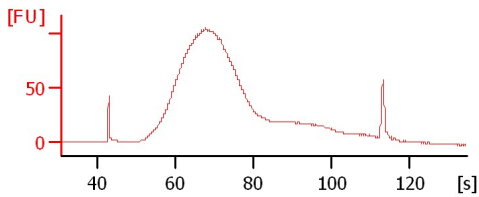
sample 14



sample 15

blank

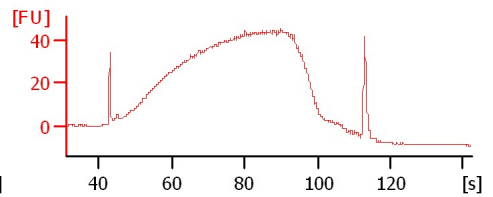
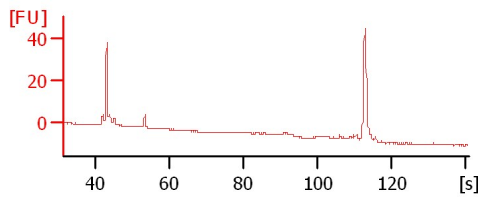
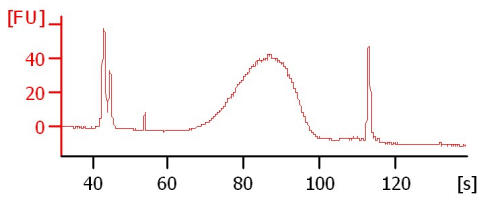
M26SP 1:2



10K TS

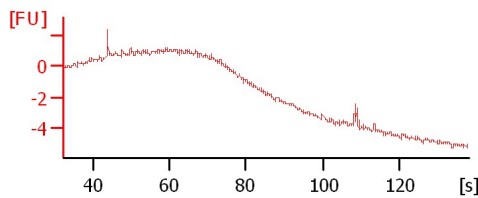
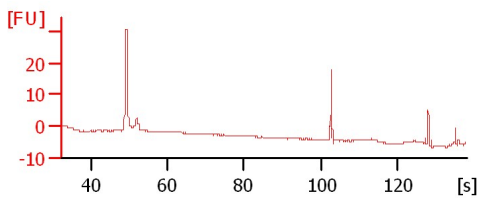
10K

18.2.1 50SEC



BLANK

NRC CONTROL



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
Modified: 3/18/2016 1:01:21 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 12		<input type="checkbox"/>	✓			
sample 13		<input type="checkbox"/>	✓			
sample 14		<input type="checkbox"/>	✓			
sample 15		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
M26SP 1:2		<input type="checkbox"/>	✓			
10K TS		<input type="checkbox"/>	✓			
10K		<input type="checkbox"/>	✓			
18.2.1 50SEC		<input type="checkbox"/>	✓			
BLANK		<input type="checkbox"/>	✓			
NRC CONTROL		<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\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
Modified: 3/18/2016 1:01:21 PM

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

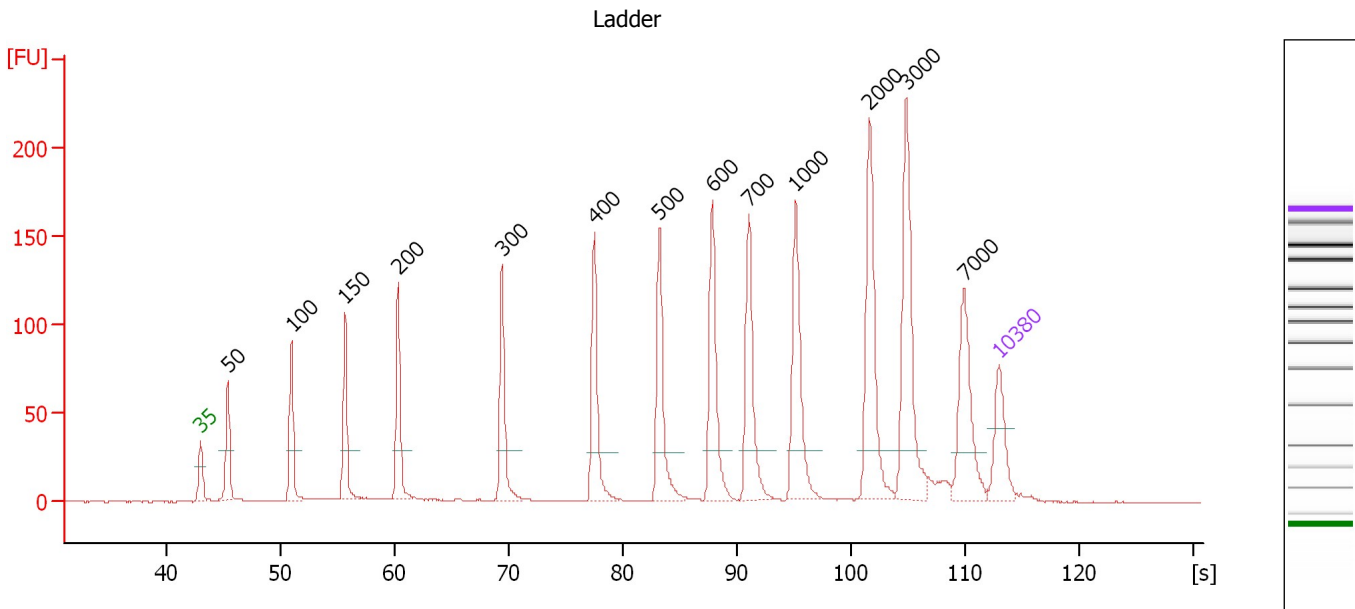
Ladder

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\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
 Modified: 3/18/2016 1:01:21 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

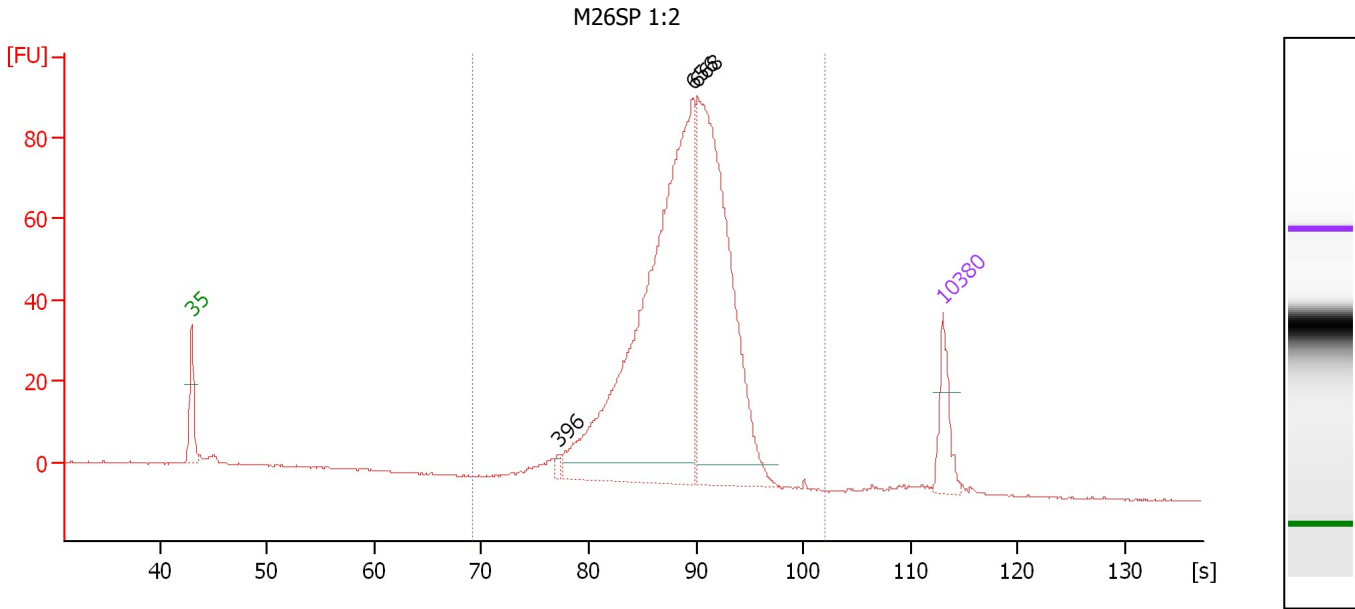
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.67
5	200	150.00	1,136.4	Ladder Peak	60.34
6	300	150.00	757.6	Ladder Peak	69.43
7	400	150.00	568.2	Ladder Peak	77.53
8	500	150.00	454.5	Ladder Peak	83.23
9	600	150.00	378.8	Ladder Peak	87.89
10	700	150.00	324.7	Ladder Peak	91.10
11	1,000	150.00	227.3	Ladder Peak	95.19
12	2,000	150.00	113.6	Ladder Peak	101.65
13	3,000	150.00	75.8	Ladder Peak	104.90
14	7,000	150.00	32.5	Ladder Peak	109.99
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
 Modified: 3/18/2016 1:01:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : M26SP 1:2

Number of peaks found: 3 Corr. Area 1: 971.9
 Noise: 0.2

Peak table for sample 6 : M26SP 1:2

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	396	12.27	46.9		77.22
3	656	1,326.40	3,064.0		89.68
4	668	930.94	2,110.3		90.08
5	10,380	75.00	10.9	Upper Marker	113.00

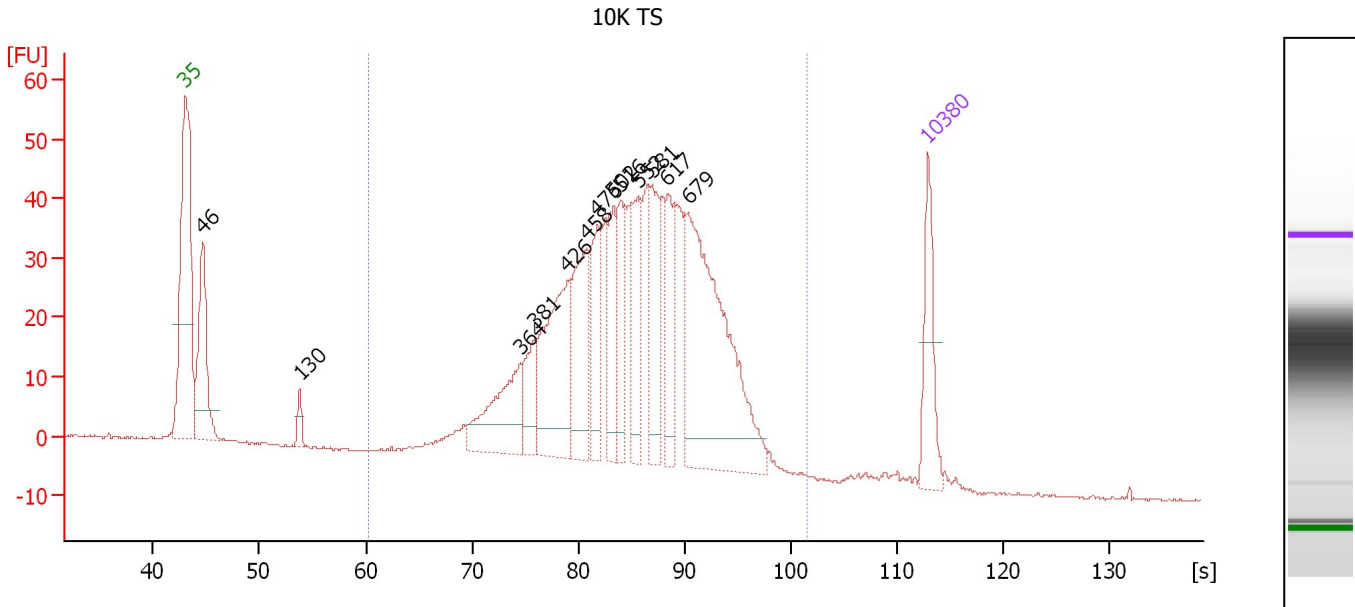
Region table for sample 6 : M26SP 1:2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
297	2,098	652	971.9	5,837.5	2,371.86	95	21.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
 Modified: 3/18/2016 1:01:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 10K TS

Number of peaks found: 13 Corr. Area 1: 979.5
 Noise: 0.2

Peak table for sample 7 : 10K TS

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	46	206.92	6,869.6		44.67
3	130	23.13	269.7		53.78
4	364	140.40	585.0		74.58
5	381	65.80	261.6		76.00
6	426	216.13	767.9		79.04
7	458	145.61	481.3		80.86
8	476	98.80	314.4		81.87
9	502	95.49	288.0		83.34
10	516	81.15	238.1		84.00
11	552	99.62	273.3		85.67
12	581	99.43	259.5		86.98
13	617	74.64	183.2		88.45
14	679	409.90	914.5		90.43
15	10,380	75.00	10.9	Upper Marker	113.00

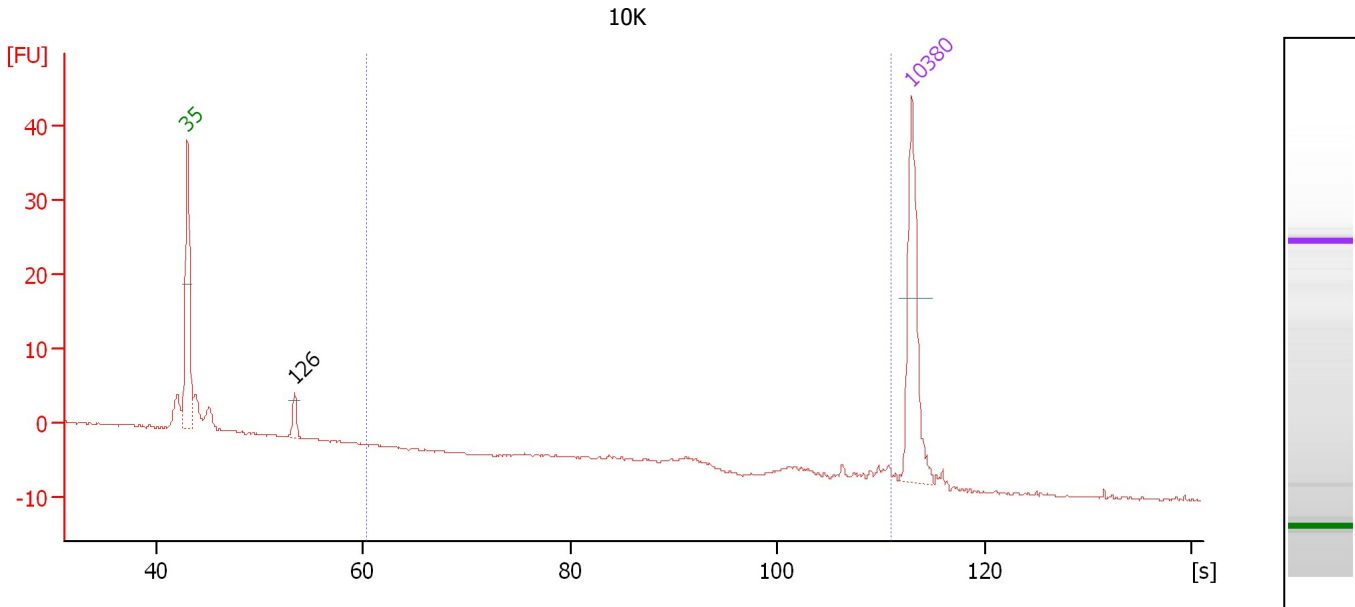
Region table for sample 7 : 10K TS

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	2,008	580	979.5	6,065.0	2,017.99	91	34.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
 Modified: 3/18/2016 1:01:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 10K

Number of peaks found: 1 Corr. Area 1: 10.7
 Noise: 0.2

Peak table for sample 8 : 10K

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	126	16.26	196.0		53.38
3	10,380	75.00	10.9	Upper Marker	113.00

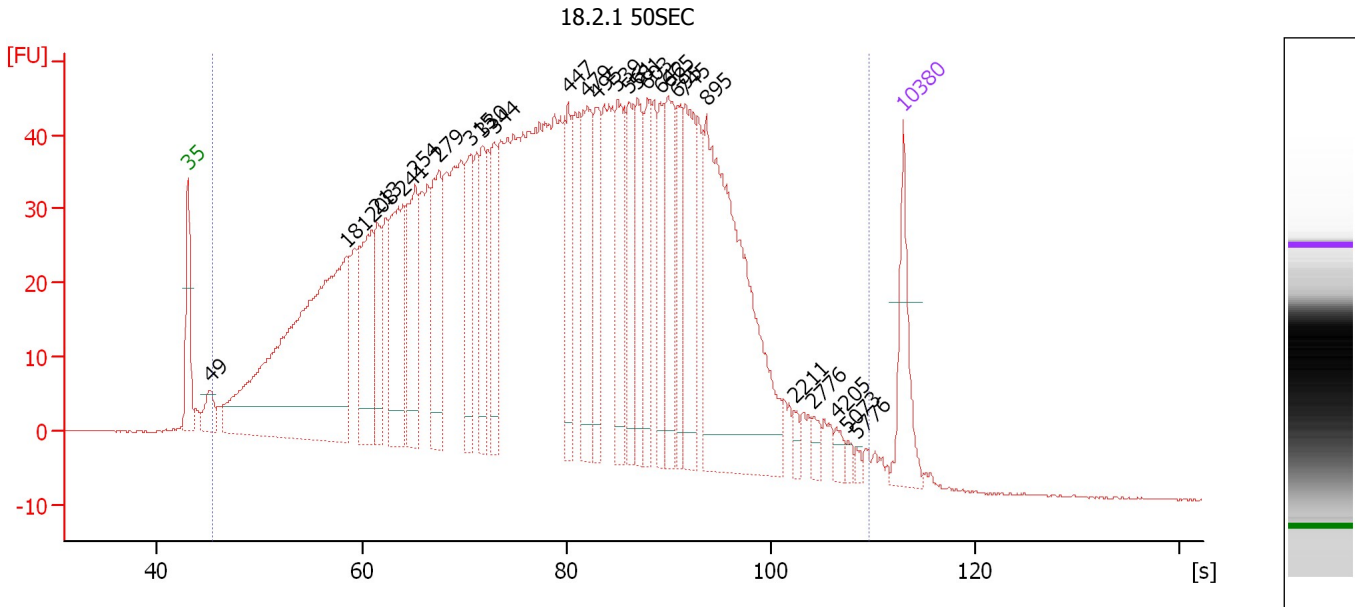
Region table for sample 8 : 10K

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,201	2,797	10.7	33.2	20.58	23	95.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
 Modified: 3/18/2016 1:01:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 18.2.1 50SEC

Number of peaks found: 27 Corr. Area 1: 2,438.5
 Noise: 0.2

Peak table for sample 9 : 18.2.1 50SEC

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	49	46.56	1,438.1		45.21
3	181	892.82	7,453.9		58.61
4	208	214.83	1,568.0		61.03
5	213	102.03	724.5		61.55
6	241	219.77	1,384.3		64.02
7	254	181.24	1,081.8		65.23
8	279	169.43	919.2		67.54
9	315	115.19	554.1		70.64
10	330	99.50	456.9		71.85
11	344	98.11	432.7		72.95
12	447	93.59	317.2		80.21
13	479	163.79	517.8		82.05
14	495	106.16	325.0		82.94
15	539	128.33	360.8		85.04
16	561	98.35	265.4		86.09
17	581	114.95	300.0		86.99
18	603	87.71	220.4		87.98
19	642	81.72	192.8		89.25
20	665	121.24	276.1		89.98
21	695	82.26	179.4		90.93
22	745	145.69	296.1		91.72
23	895	485.69	821.8		93.77
24	2,211	10.21	7.0		102.33
25	2,776	13.58	7.4		104.17

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
 Modified: 3/18/2016 1:01:21 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : 18.2.1 50SEC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,205	12.03	4.3		106.43
27	5,073	7.19	2.1		107.53
28	5,776	5.49	1.4		108.43
29	10,380	75.00	10.9	Upper Marker	113.00

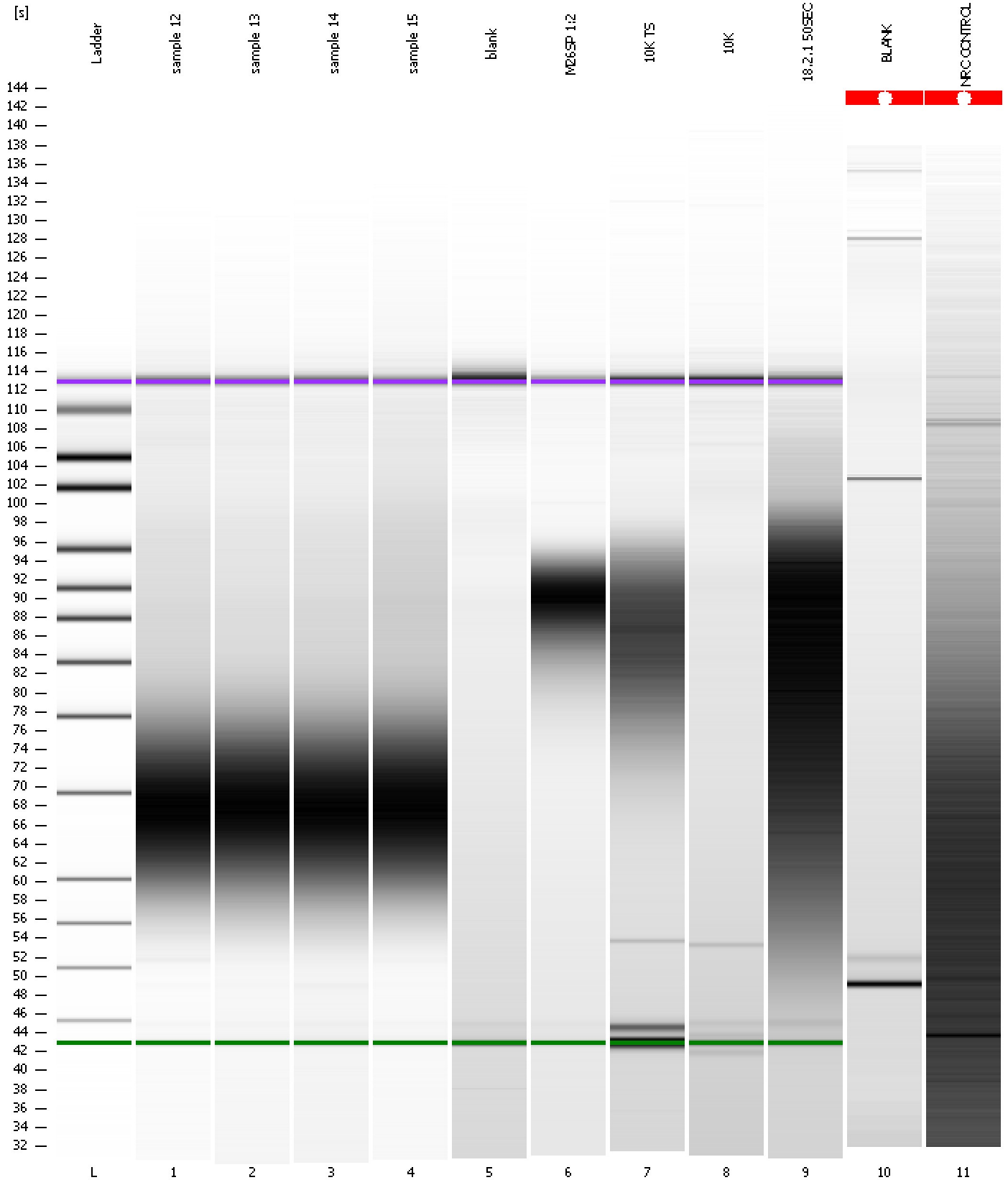
Region table for sample 9 : 18.2.1 50SEC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
51	6,788	585	2,438.5	35,079.9	6,353.30	99	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
Modified: 3/18/2016 1:01:21 PM

Gel Image

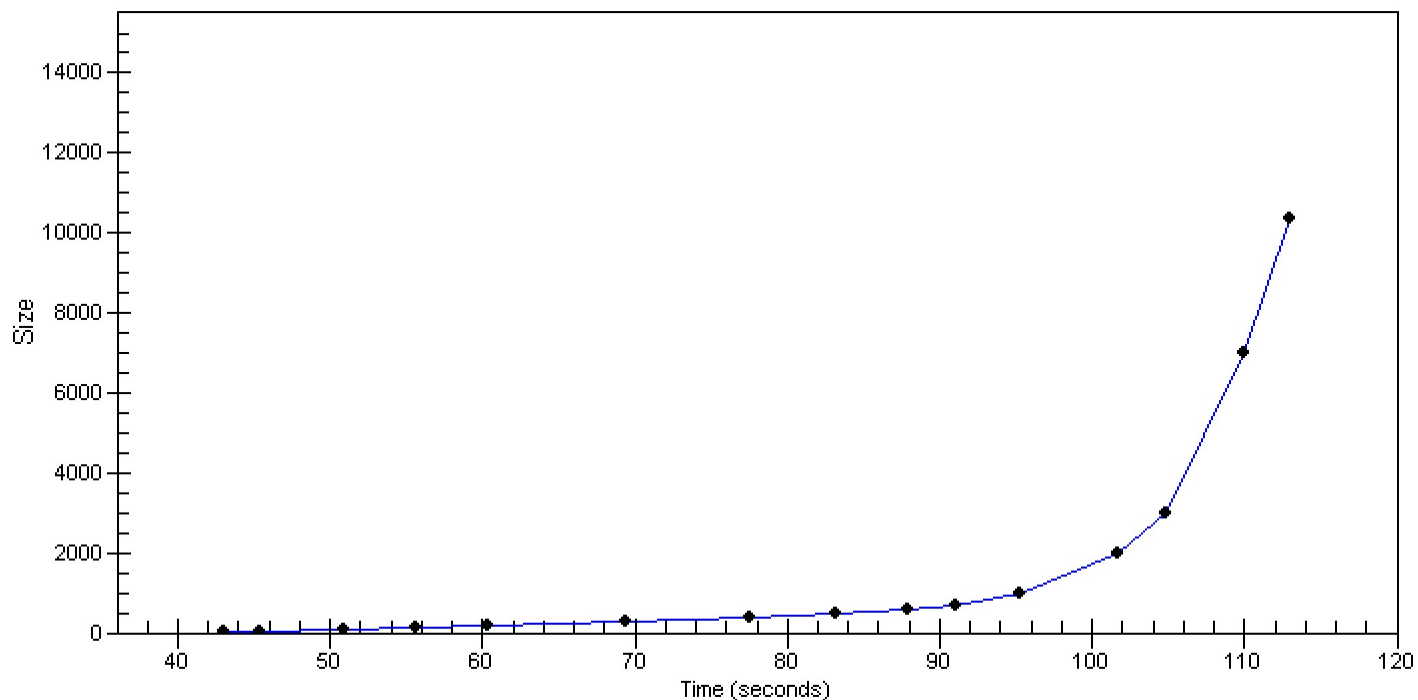


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
Modified: 3/18/2016 1:01:21 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad

Created: 3/18/2016 12:20:54 PM
 Modified: 3/18/2016 1:01:21 PM

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		3/18/2016 1:01:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-18\2016-03-18_003.xad)		Instrument	Run		3/18/2016 12:21:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/18/2016 12:21:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/18/2016 12:21:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/18/2016 12:21:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/18/2016 12:21:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/18/2016 12:21:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/18/2016 12:21:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1