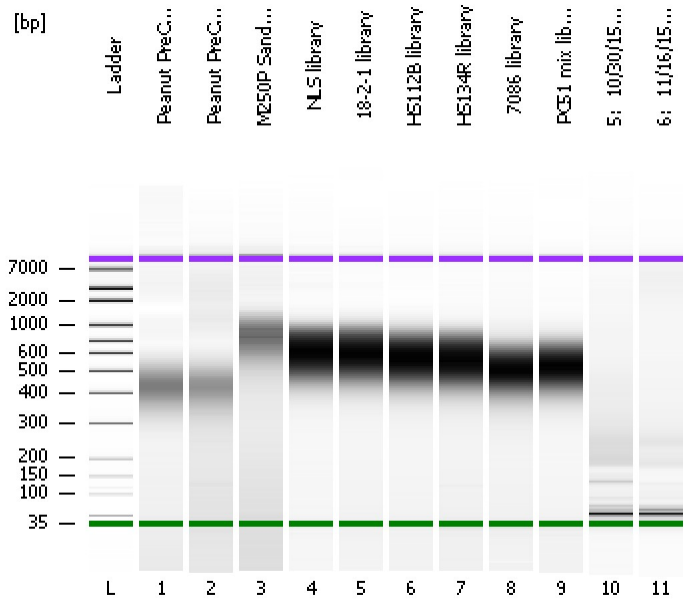
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

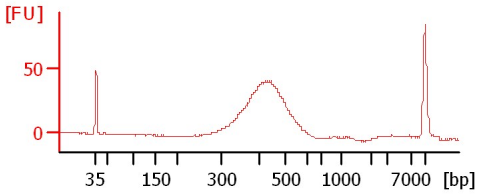
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

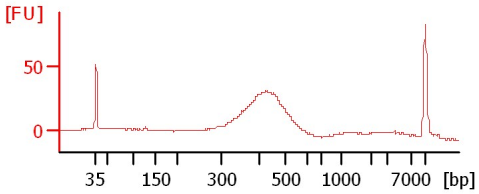
Chip Information:

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

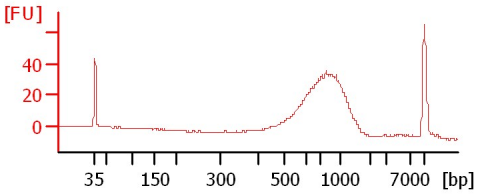
Peanut PreCap. Pool with 0.8X cleanup



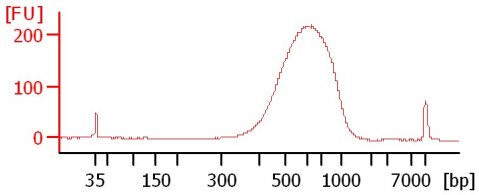
Peanut PreCap. Pool before 0.8X cleanup



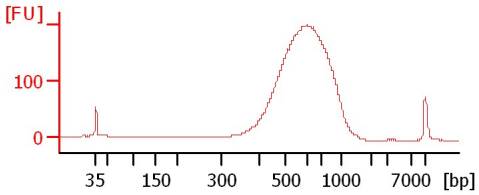
M250P Sandea3 BC



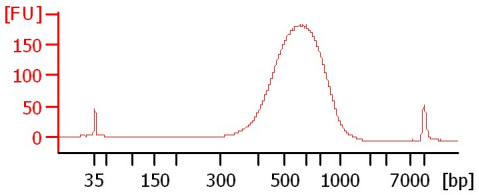
NLS library



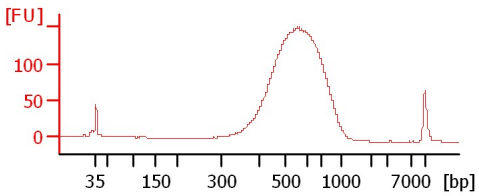
18-2-1 library



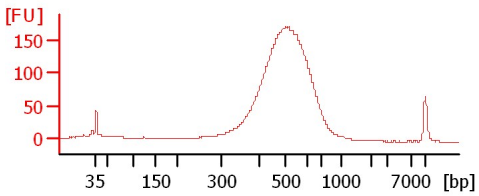
HS112B library



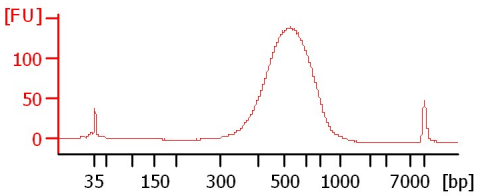
HS134R library



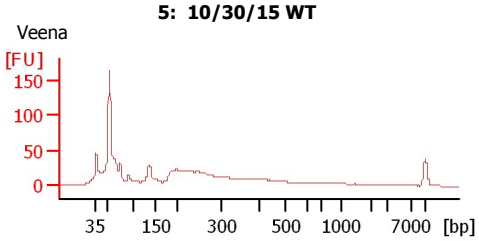
7086 library



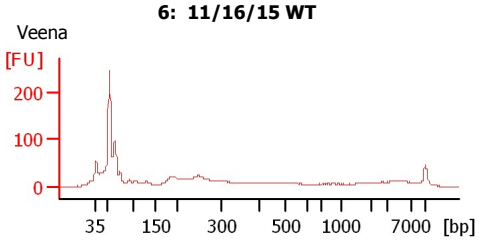
PC51 mix library



5: 10/30/15 WT



6: 11/16/15 WT



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Peanut PreCap. Pool with 0.8X cleanup		☐	✔			
Peanut PreCap. Pool before 0.8X cleanup		☐	✔			
M250P Sandea3 BC		☐	✔			
NLS library		☐	✔			
18-2-1 library		☐	✔			
HS112B library		☐	✔			
HS134R library		☐	✔			
7086 library		☐	✔			
PC51 mix library		☐	✔			
5: 10/30/15 WT	Veena	☐	✔			
6: 11/16/15 WT	Veena	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 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

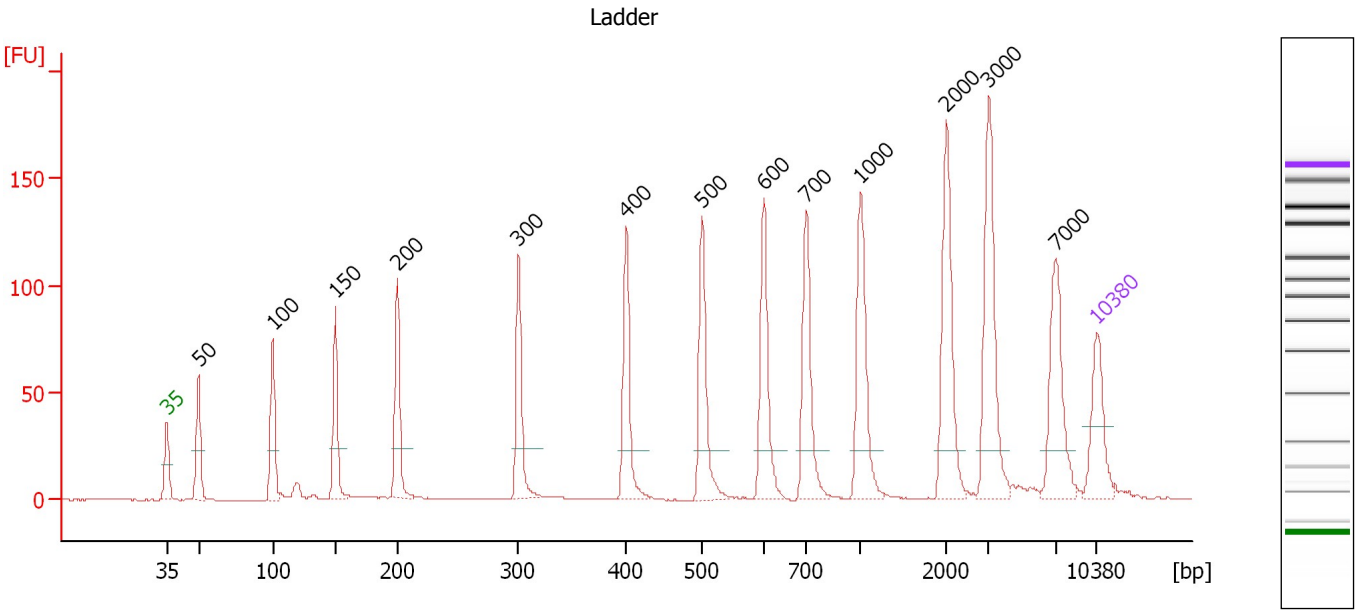
Ladder

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\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

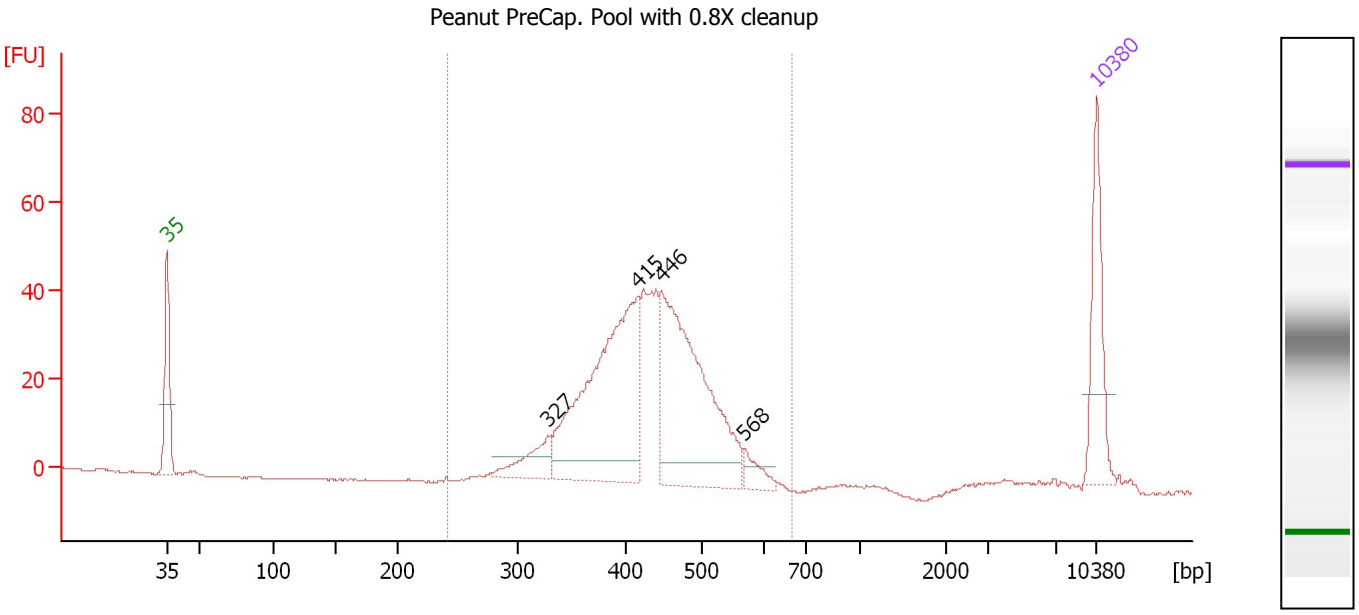
Peak table for Ladder

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	45.37
3		100	150.00	2,272.7	Ladder Peak	50.97
4		150	150.00	1,515.2	Ladder Peak	55.66
5		200	150.00	1,136.4	Ladder Peak	60.36
6		300	150.00	757.6	Ladder Peak	69.46
7		400	150.00	568.2	Ladder Peak	77.57
8		500	150.00	454.5	Ladder Peak	83.26
9		600	150.00	378.8	Ladder Peak	87.91
10		700	150.00	324.7	Ladder Peak	91.14
11		1,000	150.00	227.3	Ladder Peak	95.22
12		2,000	150.00	113.6	Ladder Peak	101.67
13		3,000	150.00	75.8	Ladder Peak	104.84
14		7,000	150.00	32.5	Ladder Peak	109.92
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Peanut PreCap. Pool with 0.8X cleanup

Number of peaks found:	4	Corr. Area 1:	533.3
Noise:	0.3		

Peak table for sample 1 : Peanut PreCap. Pool with 0.8X cleanup

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	327	47.95	222.1		71.66
3	415	349.03	1,274.2		78.43
4	446	319.40	1,085.0		80.19
5	568	21.28	56.7		86.44
6	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 1 : Peanut PreCap. Pool with 0.8X cleanup

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
242	667	429	533.3	3,030.5	834.76	98	14.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

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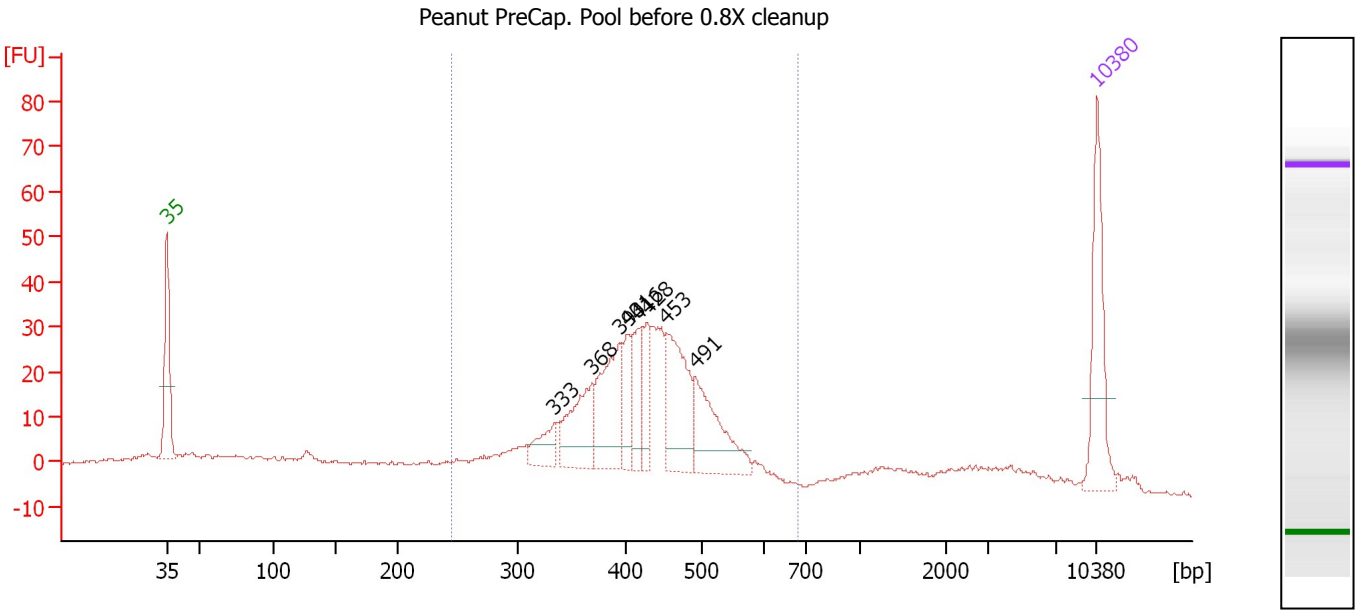
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Peanut PreCap. Pool before 0.8X cleanup

Number of peaks found:	8	Corr. Area 1:	483.7
Noise:	0.4		

Peak table for sample 2 : Peanut PreCap. Pool before 0.8X cleanup

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	333	34.34	156.3		72.14
3	368	80.29	330.2		75.01
4	393	102.84	396.3		77.02
5	401	36.44	137.6		77.64
6	416	46.52	169.3		78.50
7	428	39.10	138.4		79.17
8	453	104.44	349.1		80.61
9	491	91.98	283.7		82.76
10	10,380	75.00	10.9	Upper Marker	113.00

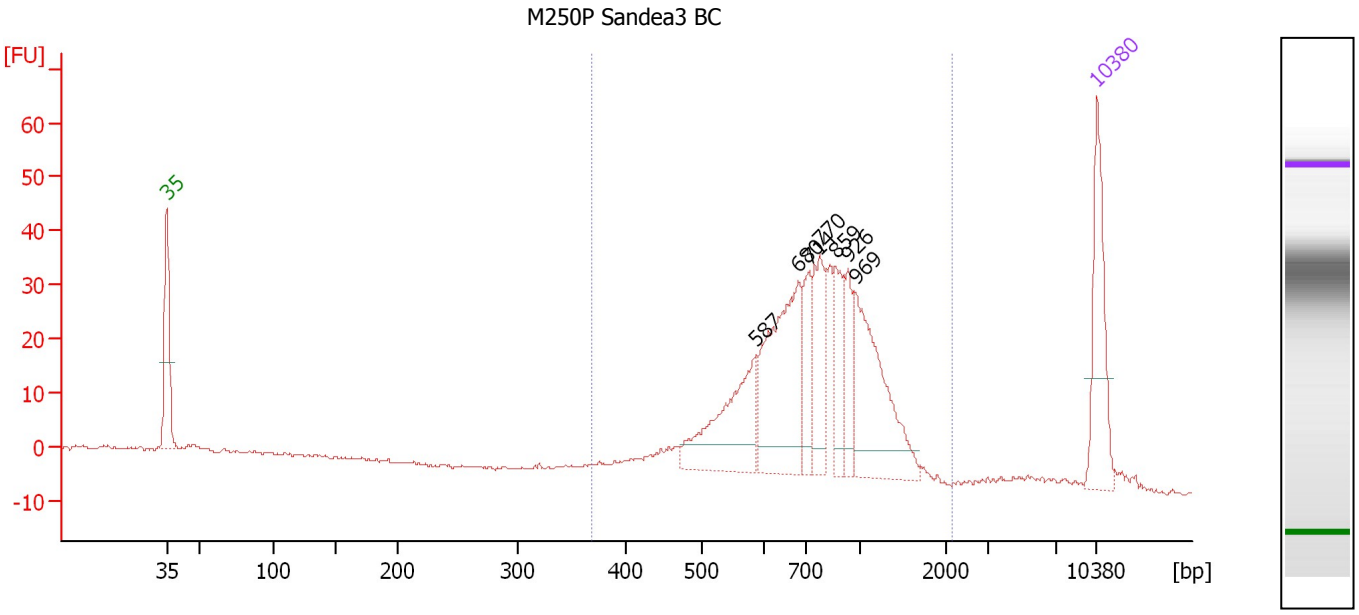
Region table for sample 2 : Peanut PreCap. Pool before 0.8X cleanup

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
245	682	420	483.7	2,874.3	762.24	73	17.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : M250P Sandea3 BC

Number of peaks found:	7	Corr. Area 1:	475.5
Noise:	0.3		

Peak table for sample 3 : M250P Sandea3 BC

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	587	118.29	305.2		87.32
3	680	178.41	397.3		90.50
4	714	45.24	96.1		91.32
5	770	72.63	142.9		92.09
6	859	52.05	91.8		93.30
7	926	39.73	65.0		94.21
8	969	139.28	217.9		94.79
9	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 3 : M250P Sandea3 BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
368	2,116	802	475.5	1,622.4	762.61	90	33.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

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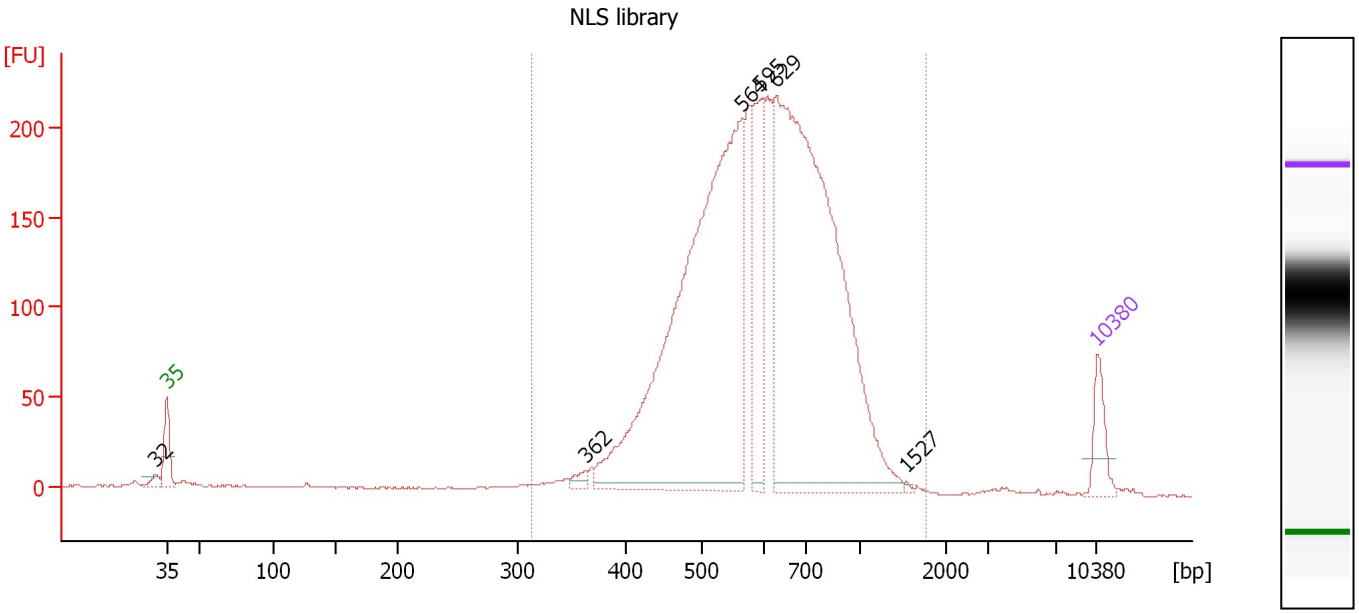
Electropherogram Summary Continued ...



Overall Results for sample 4 : NLS library

Number of peaks found:	6	Corr. Area 1:	3,276.8
Noise:	0.5		

Peak table for sample 4 : NLS library

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.07
2	35	125.00	5,411.3	Lower Marker	43.00
3	362	25.05	104.8		74.51
4	564	1,939.58	5,208.9		86.25
5	595	284.66	725.1		87.67
6	629	1,975.36	4,758.0		88.85
7	1,527	4.44	4.4		98.62
8	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : NLS library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
313	1,763	633	3,276.8	12,901.0	4,965.73	96	27.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
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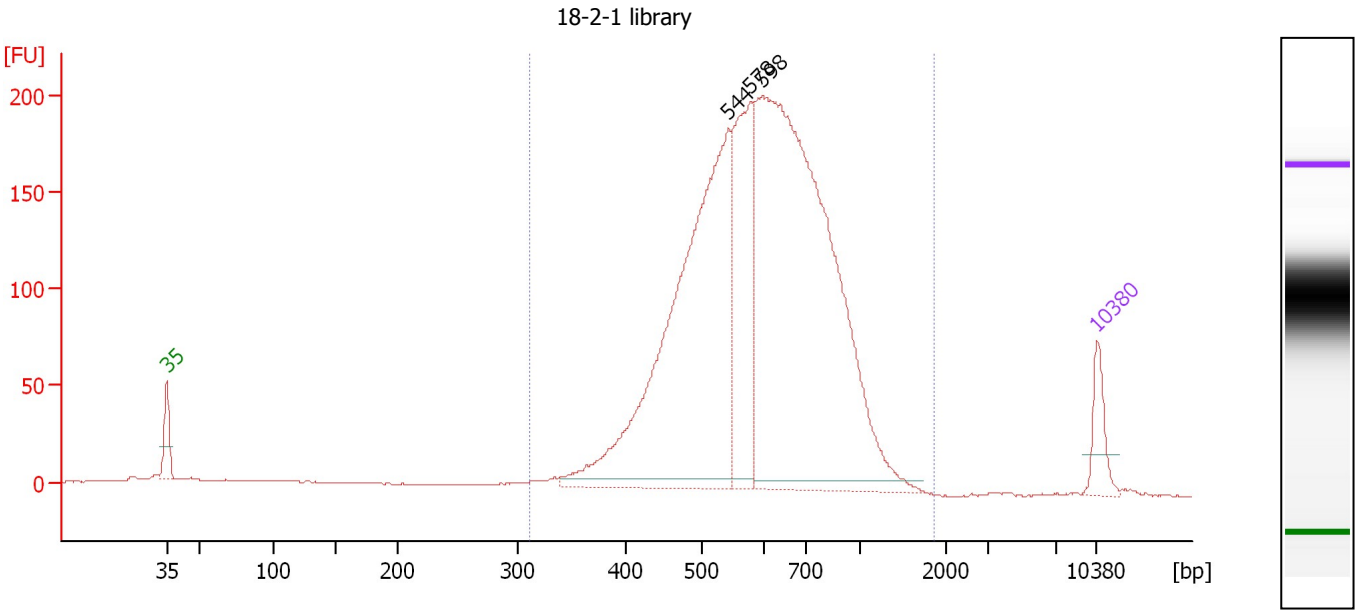
Electropherogram Summary Continued ...



Overall Results for sample 5 : 18-2-1 library

Number of peaks found:	3	Corr. Area 1:	2,978.3
Noise:	0.3		

Peak table for sample 5 : 18-2-1 library

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	544	1,549.72	4,319.8		85.29
3	578	532.26	1,395.7		86.88
4	598	2,092.28	5,299.9		87.83
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : 18-2-1 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
311	1,856	626	2,978.3	11,338.7	4,319.43	96	27.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

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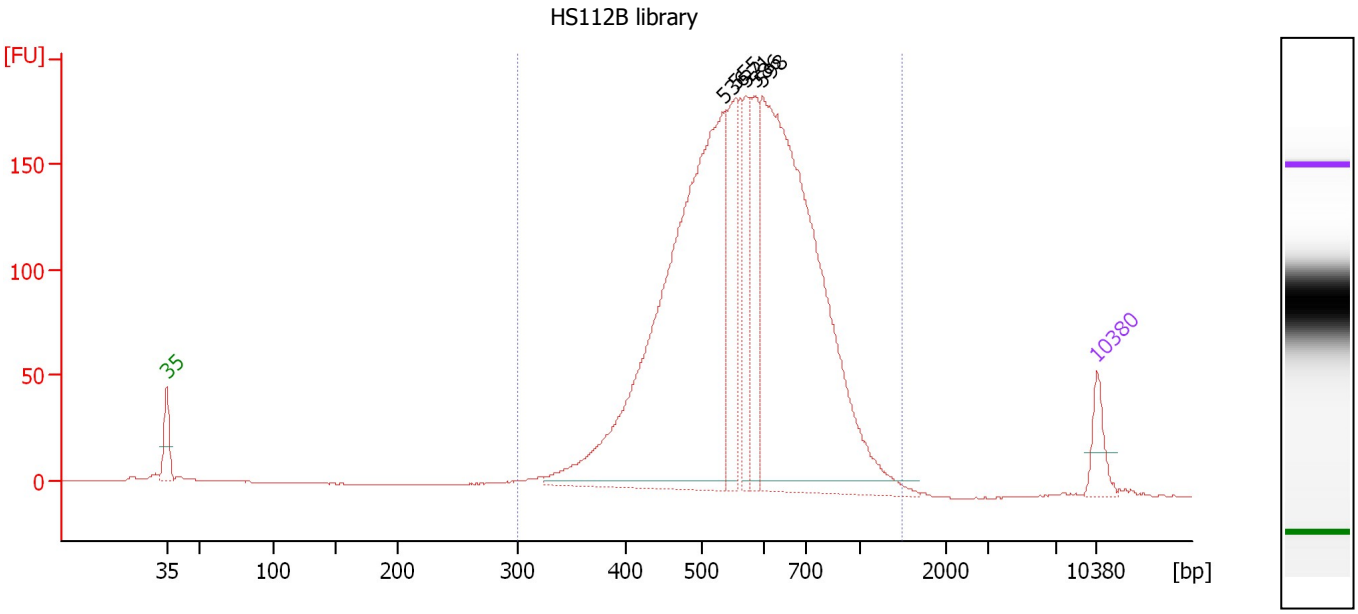
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HS112B library

Number of peaks found:	5	Corr. Area 1:	2,780.0
Noise:	0.2		

Peak table for sample 6 : HS112B library

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	536	2,167.22	6,123.2		84.95
3	555	384.98	1,051.7		85.80
4	571	261.88	695.1		86.56
5	586	256.42	663.1		87.26
6	598	2,013.09	5,102.2		87.81
7	10,380	75.00	10.9	Upper Marker	113.00

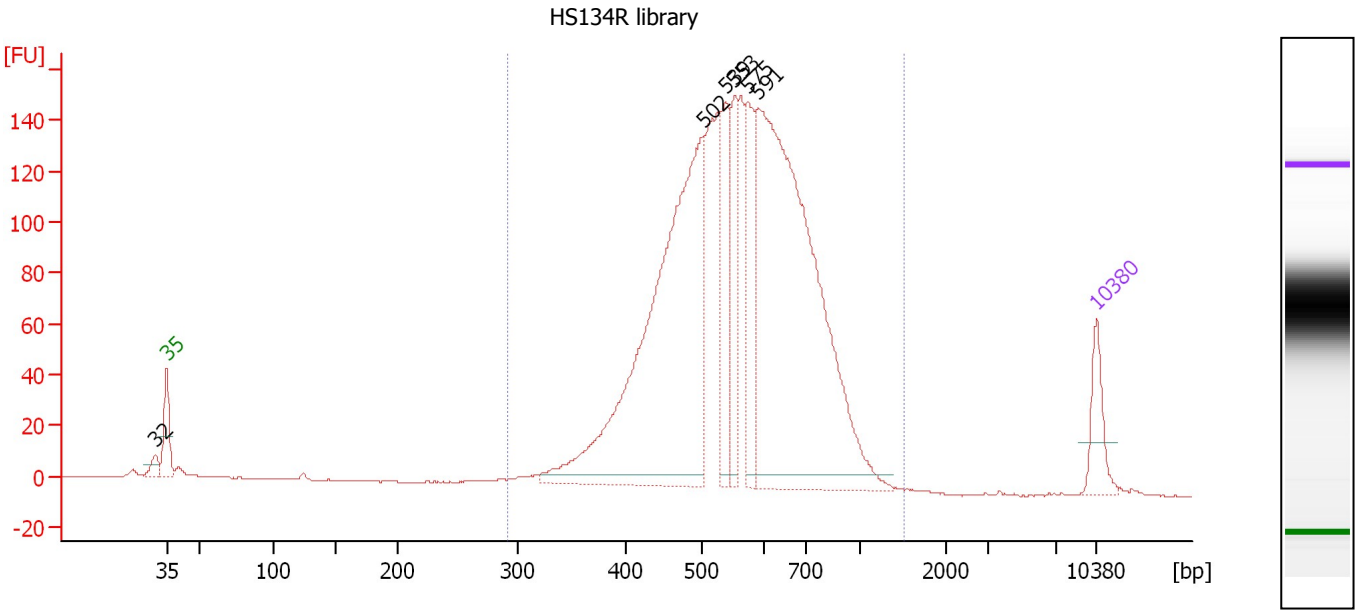
Region table for sample 6 : HS112B library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
300	1,485	588	2,780.0	14,802.7	5,357.43	97	25.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HS134R library

Number of peaks found:	6	Corr. Area 1:	2,289.4
Noise:	0.2		

Peak table for sample 7 : HS134R library

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.14
2	35	125.00	5,411.3	Lower Marker	43.00
3	502	1,286.42	3,884.3		83.35
4	539	206.99	582.0		85.07
5	553	191.42	524.4		85.73
6	575	211.16	556.5		86.74
7	591	1,370.79	3,513.0		87.50
8	10,380	75.00	10.9	Upper Marker	113.00

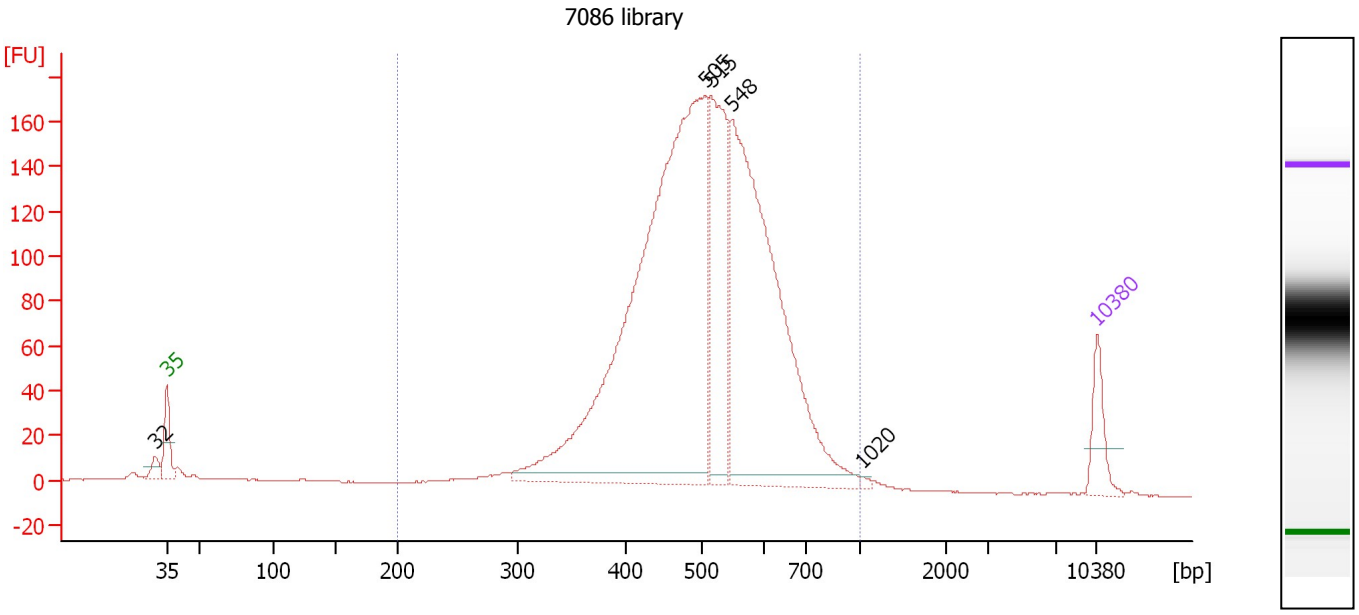
Region table for sample 7 : HS134R library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
290	1,514	573	2,289.4	10,881.4	3,859.33	97	23.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 7086 library

Number of peaks found:	5	Corr. Area 1:	2,481.4
Noise:	0.2		

Peak table for sample 8 : 7086 library

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.13
2	35	125.00	5,411.3	Lower Marker	43.00
3	505	2,151.80	6,457.5		83.49
4	515	484.72	1,426.6		83.95
5	548	1,288.72	3,563.5		85.49
6	1,020	6.42	9.5		95.35
7	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : 7086 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	509	2,481.4	13,453.2	4,254.91	94	20.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

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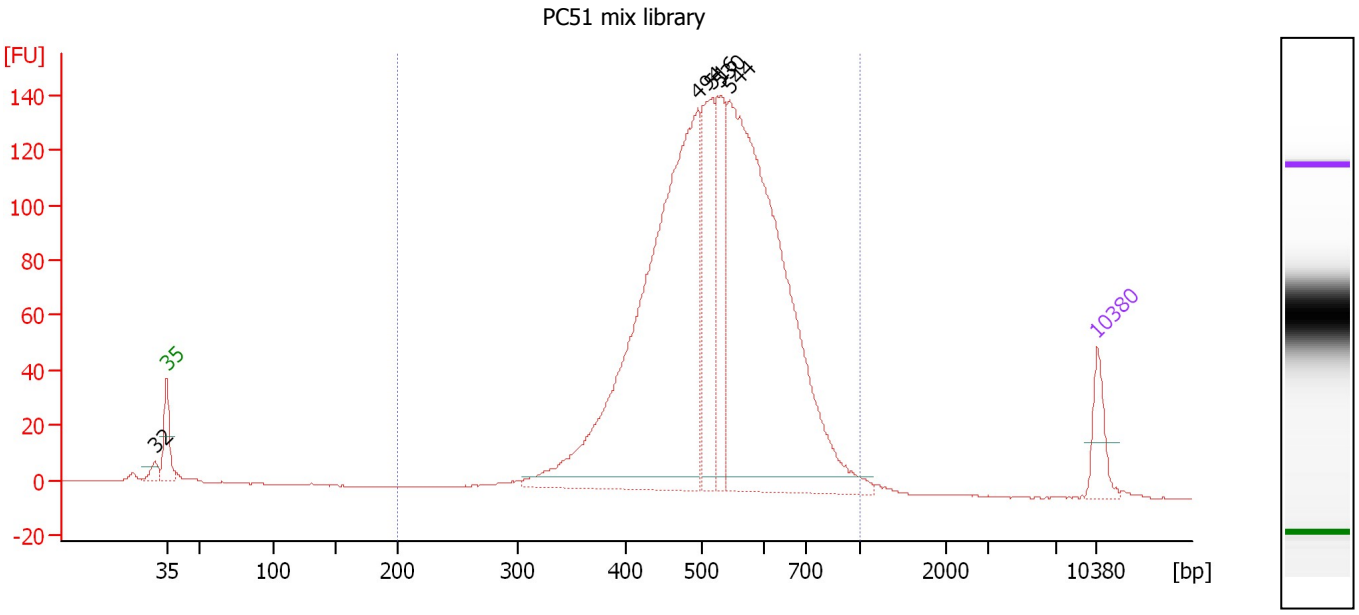
Electropherogram Summary Continued ...



Overall Results for sample 9 : PC51 mix library

Number of peaks found:	5	Corr. Area 1:	1,934.4
Noise:	0.1		

Peak table for sample 9 : PC51 mix library

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.07
2	35	125.00	5,411.3	Lower Marker	43.00
3	494	1,771.46	5,431.2		82.93
4	516	392.62	1,152.4		84.02
5	530	277.42	793.7		84.64
6	544	1,744.13	4,857.6		85.31
7	10,380	75.00	10.9	Upper Marker	113.00

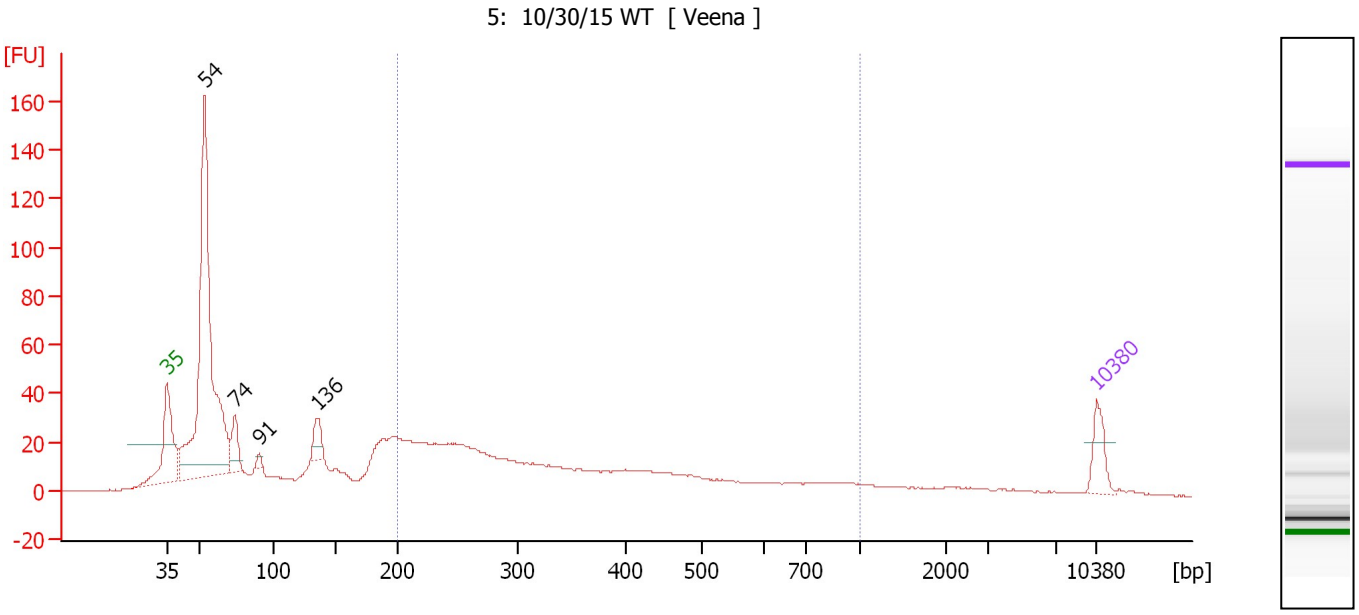
Region table for sample 9 : PC51 mix library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	529	1,934.4	12,775.3	4,248.69	98	19.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 5: 10/30/15 WT

Number of peaks found:	4	Corr. Area 1:	502.2
Noise:	0.2		

Peak table for sample 10 : 5: 10/30/15 WT

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	54	1,657.65	46,194.8		45.86
3	74	127.42	2,596.6		48.10
4	91	22.99	382.5		49.97
5	136	91.82	1,023.8		54.34
6	10,380	75.00	10.9	Upper Marker	113.00

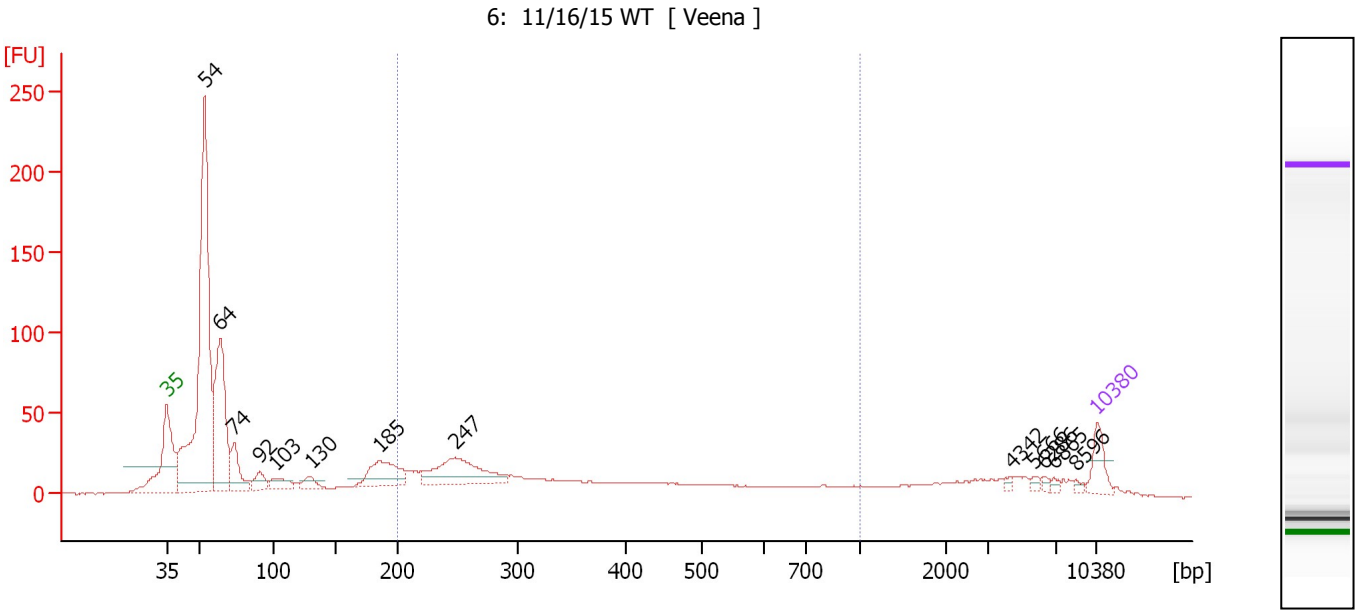
Region table for sample 10 : 5: 10/30/15 WT

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	373	502.2	9,295.8	1,860.80	40	45.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 6: 11/16/15 WT

Number of peaks found:	13	Corr. Area 1:	470.7
Noise:	0.3		

Peak table for sample 11 : 6: 11/16/15 WT

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	54	1,882.55	52,693.8		45.83
3	64	693.61	16,307.3		46.99
4	74	177.76	3,648.4		48.04
5	92	77.89	1,287.9		50.03
6	103	80.72	1,188.7		51.24
7	130	56.25	654.3		53.81
8	185	245.13	2,007.3		58.95
9	247	343.33	2,102.9		64.67
10	4,342	10.92	3.8		106.55
11	5,666	12.69	3.4		108.22
12	6,286	11.64	2.8		109.01
13	6,865	10.93	2.4		109.75
14	8,596	10.01	1.8		111.37
15	10,380	75.00	10.9	Upper Marker	113.00

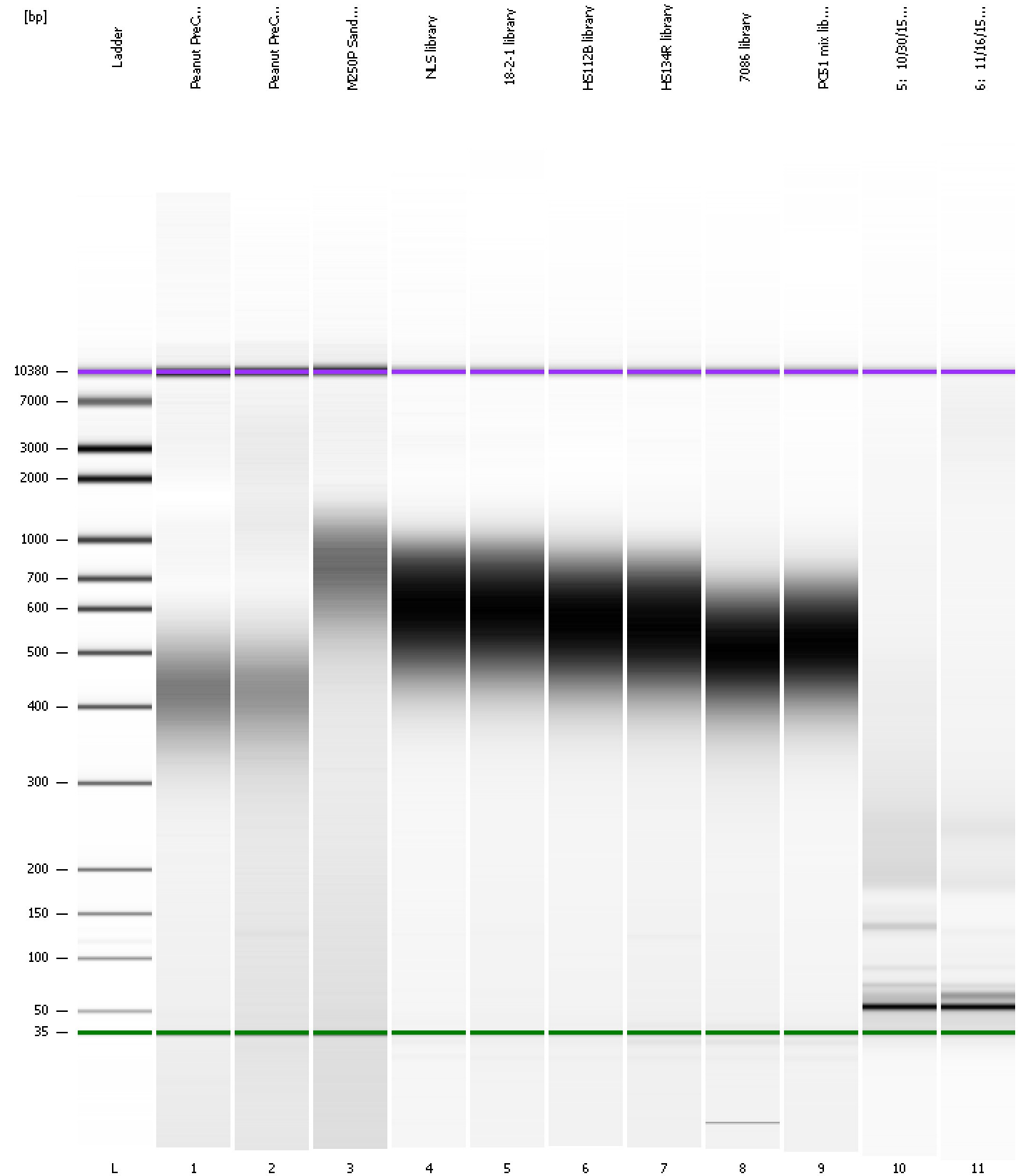
Region table for sample 11 : 6: 11/16/15 WT

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	394	470.7	7,191.4	1,484.26	31	46.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Gel Image

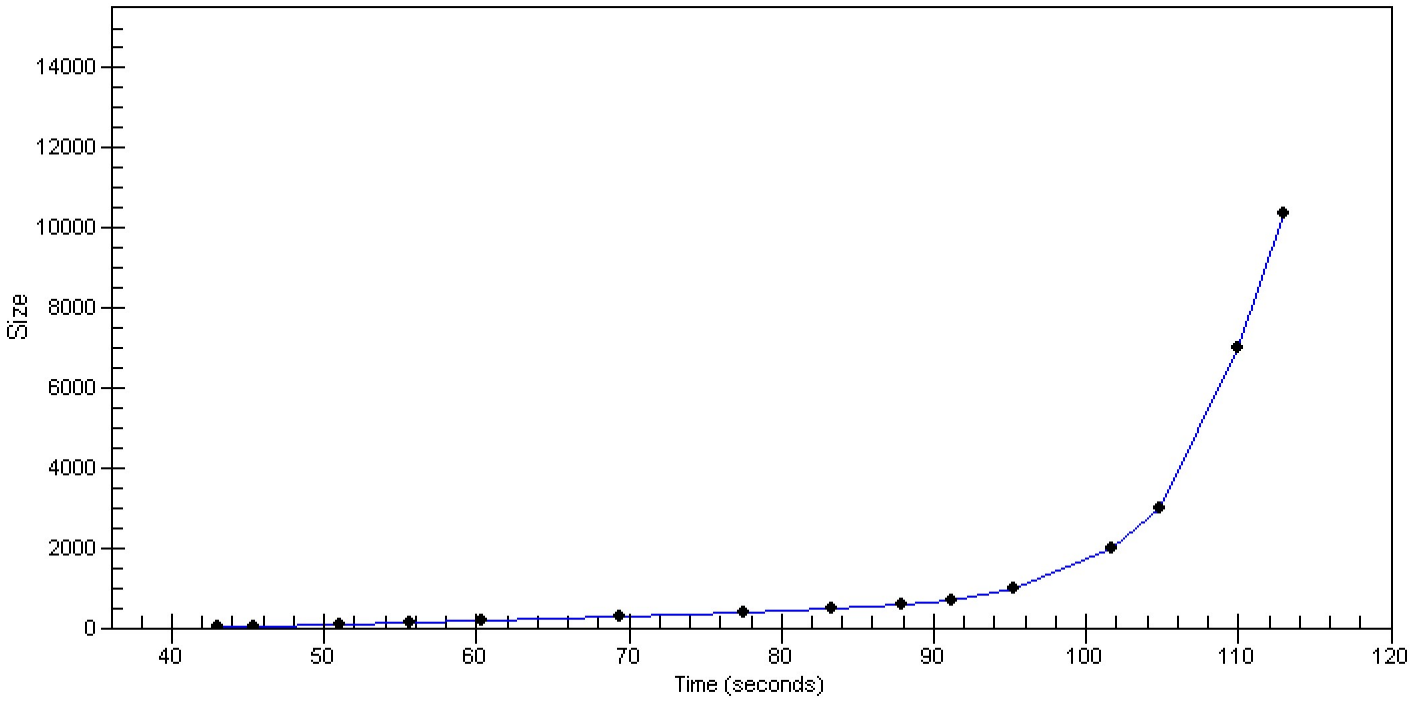


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-24\2016-03-24_002.xad

Created: 3/24/2016 3:36:25 PM
Modified: 3/24/2016 4:16:55 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		3/24/2016 4:16:54 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\2016-03-24\2016-03-24_002.xad)		Instrument	Run		3/24/2016 3:36:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/24/2016 3:36:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/24/2016 3:36:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/24/2016 3:36:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/24/2016 3:36:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/24/2016 3:36:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/24/2016 3:36:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1