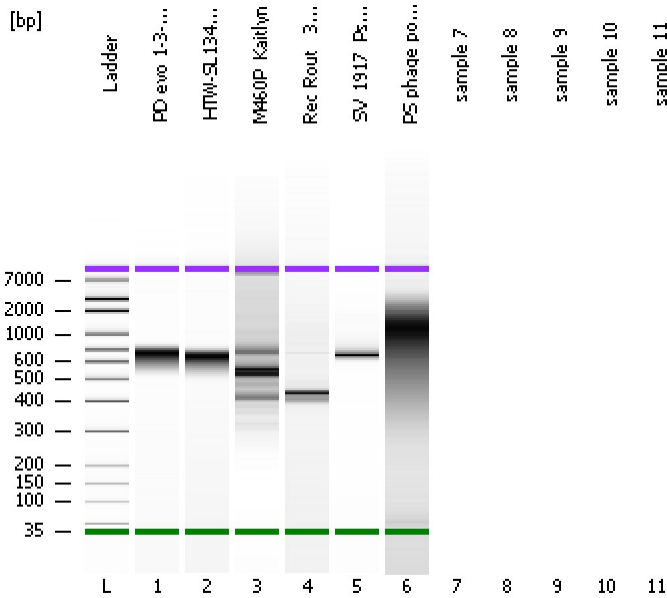


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electrophoresis File Run Summary



Instrument Information:

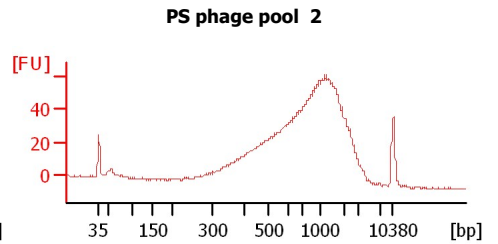
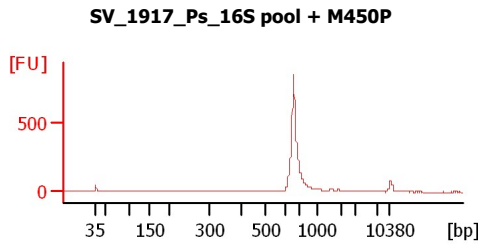
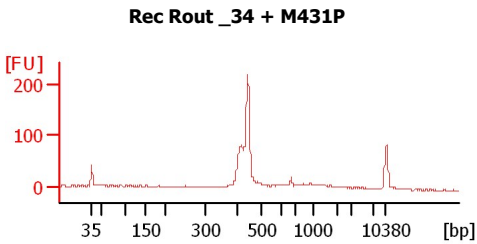
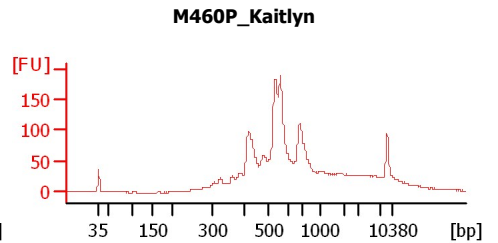
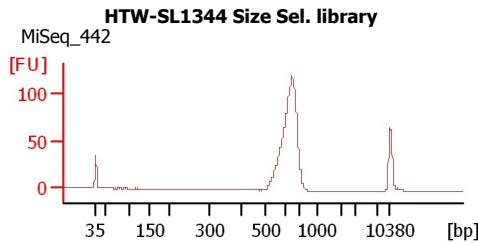
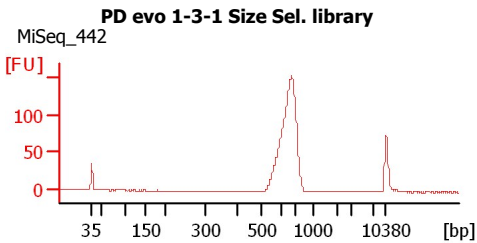
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
Modified: 1/18/2017 4:53:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PD evo 1-3-1 Size Sel. library	MiSeq_442	<input type="checkbox"/>	✓			
HTW-SL1344 Size Sel. library	MiSeq_442	<input type="checkbox"/>	✓			
M460P_Kaitlyn		<input type="checkbox"/>	✓			
Rec Rout _34 + M431P		<input type="checkbox"/>	✓			
SV_1917_Ps_16S pool + M450P		<input type="checkbox"/>	✓			
PS phage pool 2		<input type="checkbox"/>	✓			
sample 7		<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 :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
Modified: 1/18/2017 4:53:45 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

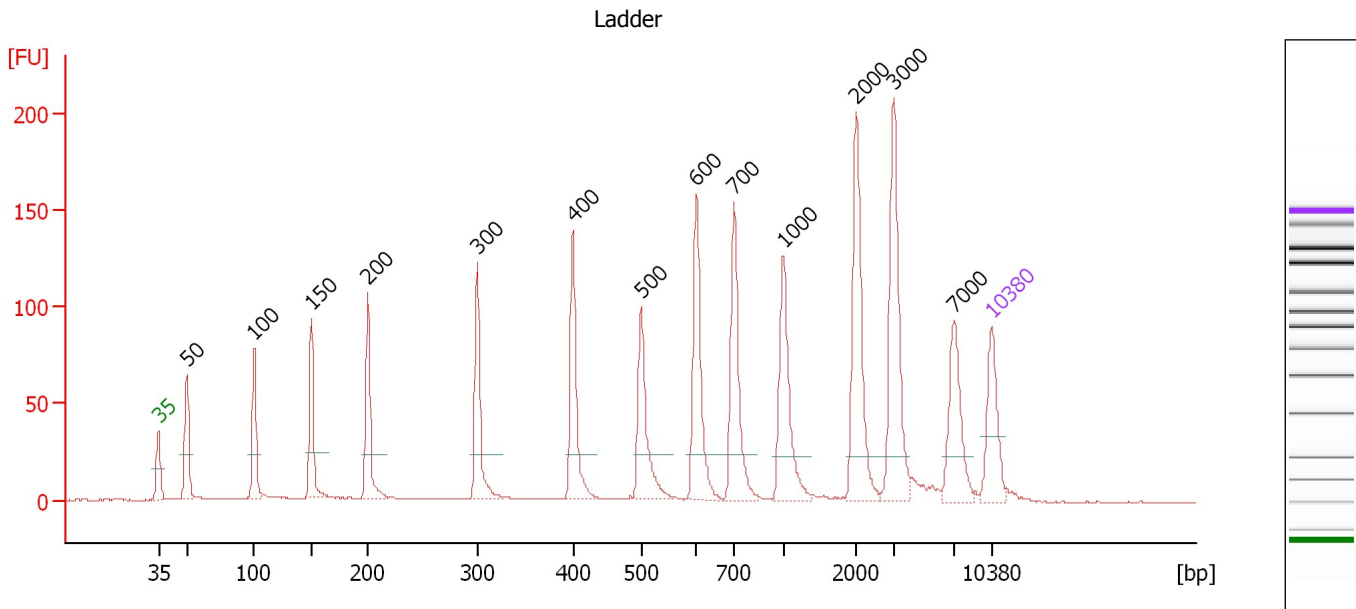
Ladder

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\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

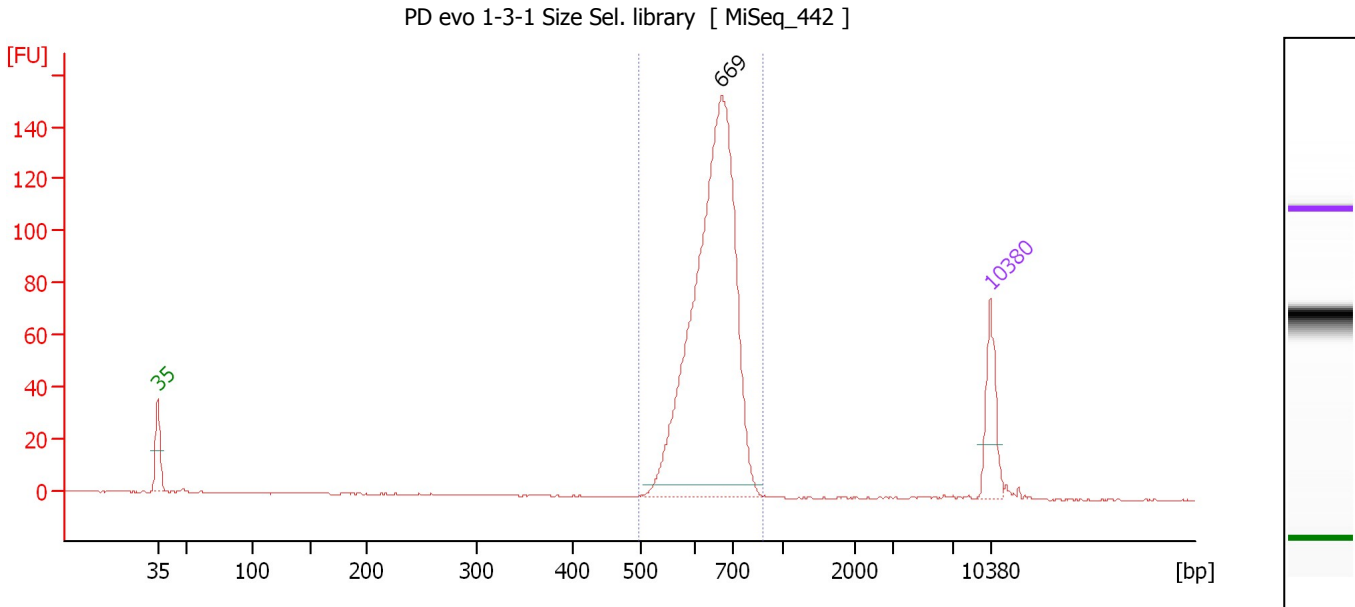
Peak table for Ladder

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	51.03
4	150	150.00	1,515.2	Ladder Peak	55.86
5	200	150.00	1,136.4	Ladder Peak	60.59
6	300	150.00	757.6	Ladder Peak	69.80
7	400	150.00	568.2	Ladder Peak	77.83
8	500	150.00	454.5	Ladder Peak	83.54
9	600	150.00	378.8	Ladder Peak	88.22
10	700	150.00	324.7	Ladder Peak	91.37
11	1,000	150.00	227.3	Ladder Peak	95.51
12	2,000	150.00	113.6	Ladder Peak	101.62
13	3,000	150.00	75.8	Ladder Peak	104.82
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : PD evo 1-3-1 Size Sel. library

Number of peaks found: 1 Corr. Area 1: 687.1
 Noise: 0.2

Peak table for sample 1 : PD evo 1-3-1 Size Sel. 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	669	1,072.90	2,428.4		90.41
3	10,380	75.00	10.9	Upper Marker	113.00

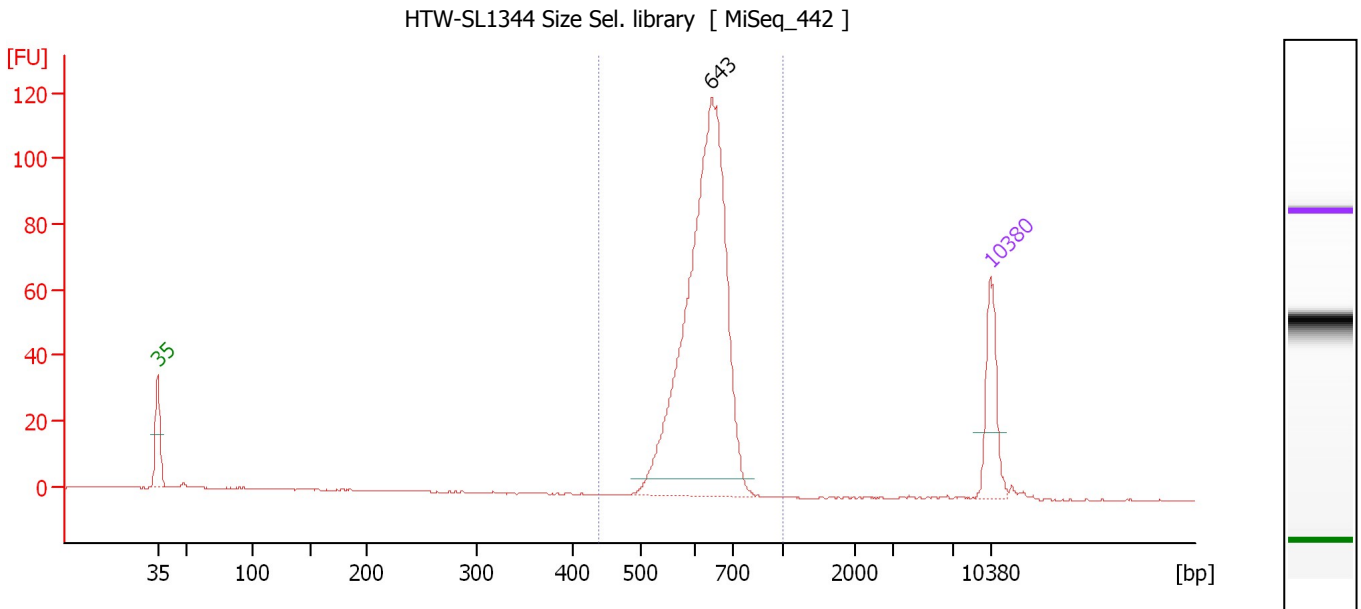
Region table for sample 1 : PD evo 1-3-1 Size Sel. library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
499	884	648	687.1	2,506.3	1,065.59	99	8.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HTW-SL1344 Size Sel. library

Number of peaks found: 1 Corr. Area 1: 515.5
 Noise: 0.2

Peak table for sample 2 : HTW-SL1344 Size Sel. 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	643	800.30	1,886.7		89.57
3	10,380	75.00	10.9	Upper Marker	113.00

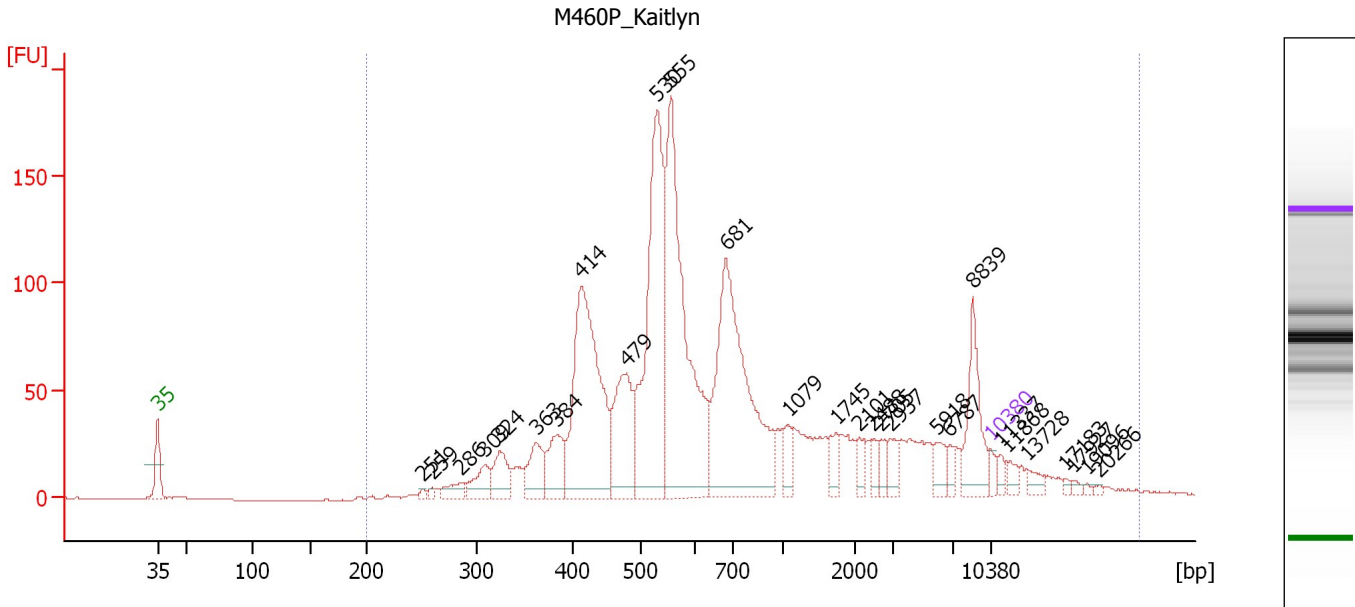
Region table for sample 2 : HTW-SL1344 Size Sel. library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
439	1,000	625	515.5	1,953.3	801.90	98	7.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : M460P_Kaitlyn

Number of peaks found: 28 Corr. Area 1: 2,365.3
 Noise: 0.2

Peak table for sample 3 : M460P_Kaitlyn

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	251	50.33	304.2		65.26
3	259	49.58	289.7		66.05
4	286	189.87	1,005.0		68.53
5	309	327.94	1,608.4		70.51
6	324	378.59	1,768.5		71.75
7	363	450.19	1,881.0		74.83
8	384	500.21	1,972.4		76.56
9	414	2,645.20	9,673.9		78.64
10	479	1,059.53	3,348.9		82.36
11	530	2,880.08	8,235.3		84.94
12	555	3,213.51	8,768.0		86.13
13	681	2,917.18	6,485.9		90.79
14	1,079	199.68	280.4		96.00
15	1,745	173.24	150.4		100.06
16	2,101	113.87	82.1		101.94
17	2,488	103.44	63.0		103.18
18	2,705	102.16	57.2		103.88
19	2,937	149.30	77.0		104.62
20	5,918	149.62	38.3		108.49
21	6,787	108.83	24.3		109.58
22	8,839	564.92	96.8		111.56
23	10,380	75.00	10.9	Upper Marker	113.00
24	11,337	0.00	0.0		113.89
25	11,868	0.00	0.0		114.39

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : M460P Kaitlyn

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,728	0.00	0.0		116.12
27	17,183	0.00	0.0		119.35
28	17,927	0.00	0.0		120.04
29	19,096	0.00	0.0		121.13
30	20,266	0.00	0.0		122.22

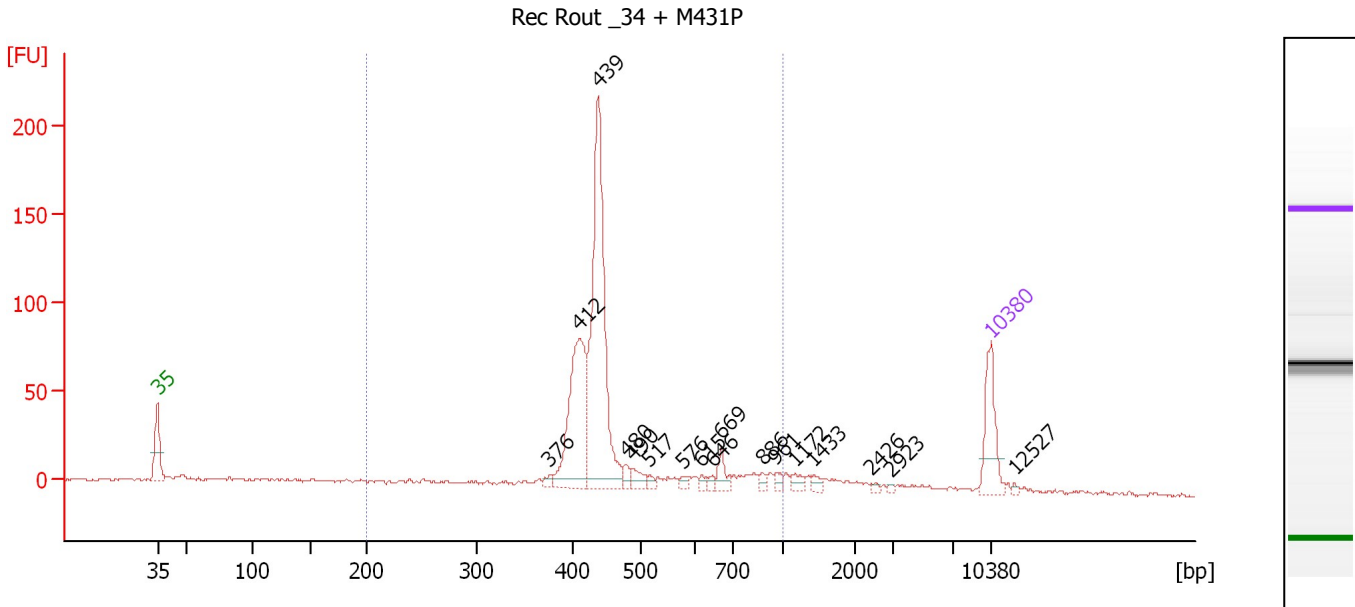
Region table for sample 3 : M460P Kaitlyn

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	23,859	2,154	2,365.3	46,165.9	18,149.93	100	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Rec Rout 34 + M431P

Number of peaks found: 17 Corr. Area 1: 704.6
 Noise: 0.8

Peak table for sample 4 : Rec Rout 34 + M431P

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	376	9.02	36.3		75.92
3	412	247.46	911.0		78.49
4	439	471.52	1,629.2		80.03
5	480	14.37	45.4		82.39
6	490	20.66	63.9		82.96
7	517	8.32	24.4		84.34
8	576	10.43	27.4		87.12
9	615	7.04	17.3		88.71
10	646	7.99	18.7		89.68
11	669	25.07	56.8		90.40
12	886	8.25	14.1		93.95
13	961	9.89	15.6		94.97
14	1,172	12.75	16.5		96.57
15	1,433	8.45	8.9		98.16
16	2,426	4.52	2.8		102.99
17	2,923	3.01	1.6		104.58
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,527	0.00	0.0		115.00

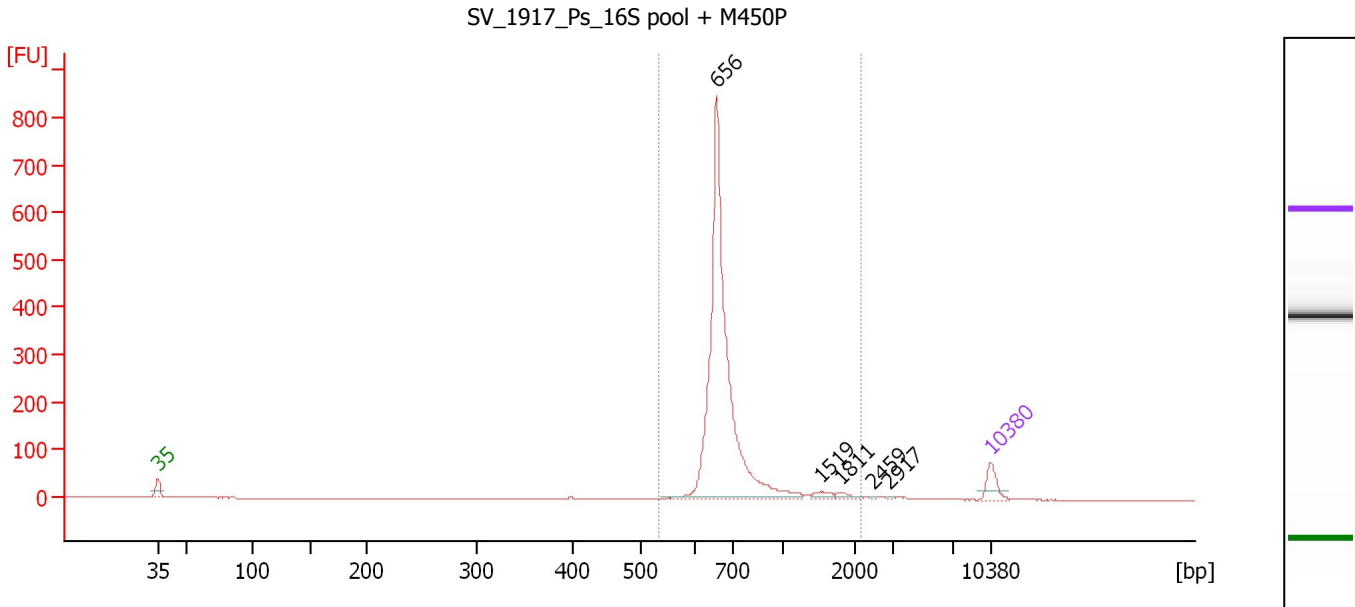
Region table for sample 4 : Rec Rout 34 + M431P

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	468	704.6	3,538.5	1,007.55	77	27.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SV 1917 Ps 16S pool + M450P

Number of peaks found: 5 Corr. Area 1: 1,512.2
 Noise: 0.3

Peak table for sample 5 : SV 1917 Ps 16S pool + M450P

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	656	2,123.41	4,905.8		89.98
3	1,519	33.85	33.8		98.69
4	1,811	26.14	21.9		100.47
5	2,459	4.26	2.6		103.09
6	2,917	5.07	2.6		104.56
7	10,380	75.00	10.9	Upper Marker	113.00

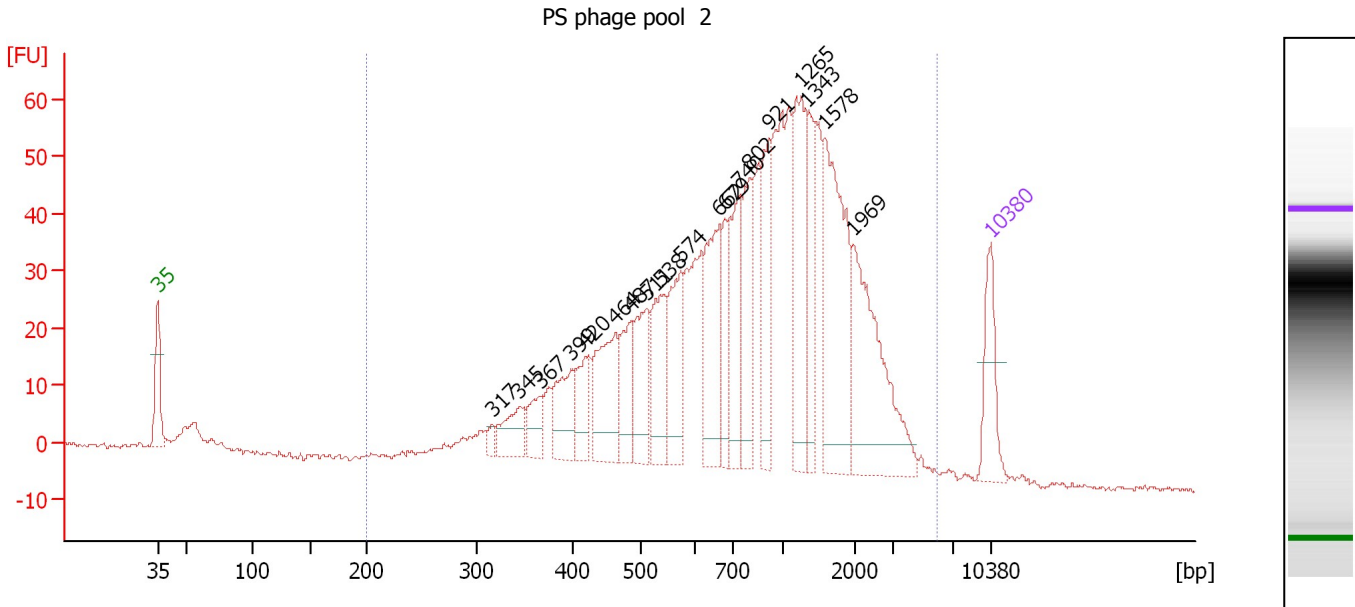
Region table for sample 5 : SV 1917 Ps 16S pool + M450P

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
536	2,167	729	1,512.2	4,712.9	2,159.42	97	29.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : PS phage pool 2

Number of peaks found: 19 Corr. Area 1: 1,261.6
 Noise: 0.4

Peak table for sample 6 : PS phage pool 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	317	16.77	80.3		71.13
3	345	66.03	290.0		73.41
4	367	48.50	200.0		75.21
5	399	93.32	354.2		77.76
6	420	72.41	261.1		78.98
7	464	157.10	513.2		81.48
8	487	87.12	271.0		82.80
9	511	111.50	330.3		84.08
10	538	123.36	347.7		85.30
11	574	124.69	329.3		87.00
12	662	163.45	374.0		90.18
13	679	84.61	188.8		90.71
14	740	128.13	262.2		91.93
15	802	120.42	227.5		92.78
16	921	112.47	185.0		94.43
17	1,265	164.12	196.5		97.13
18	1,343	104.40	117.7		97.61
19	1,578	248.01	238.1		99.04
20	1,969	236.83	182.3		101.43
21	10,380	75.00	10.9	Upper Marker	113.00

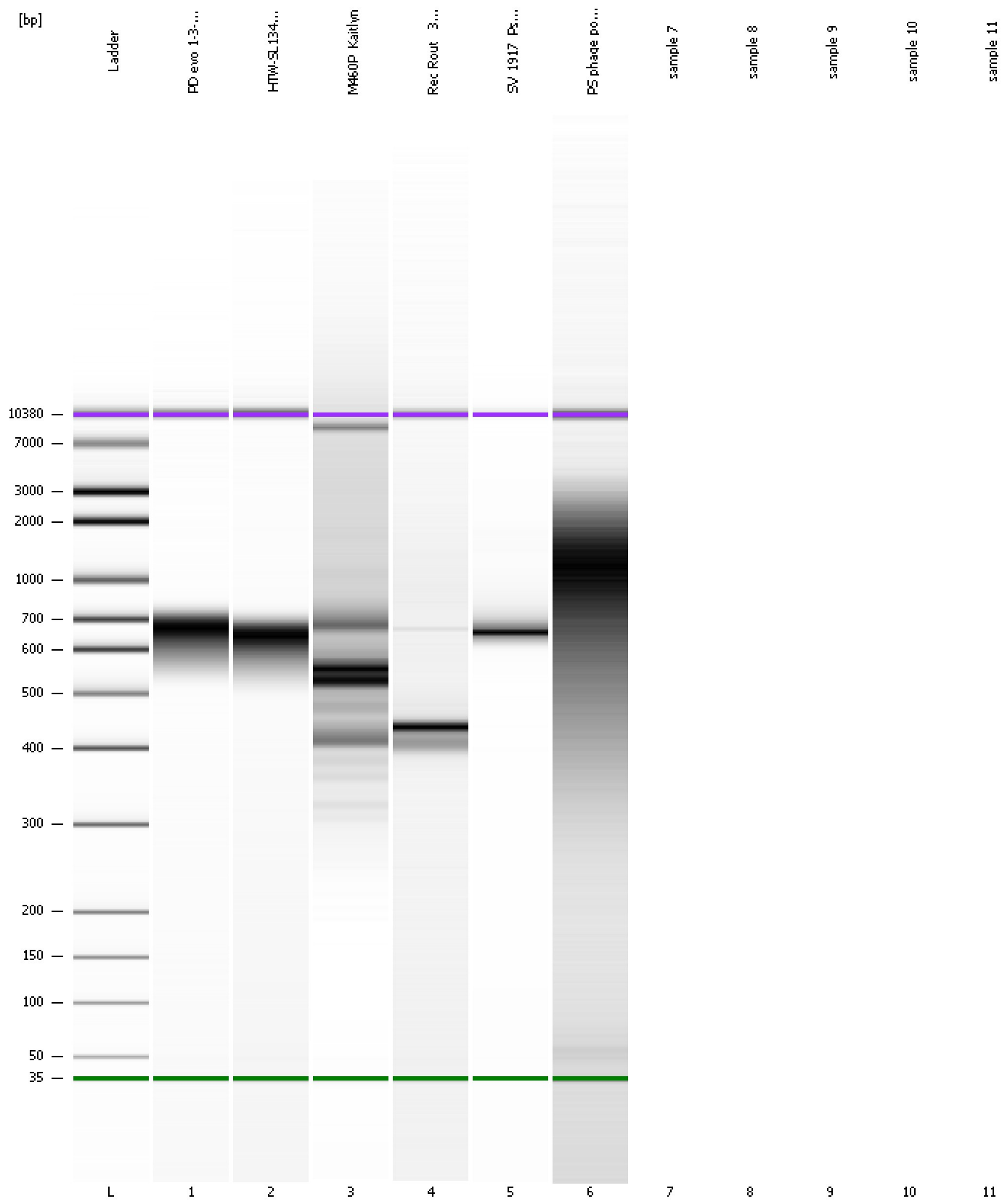
Region table for sample 6 : PS phage pool 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	5,929	1,066	1,261.6	7,078.0	3,167.23	97	67.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
Modified: 1/18/2017 4:53:45 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
Modified: 1/18/2017 4:53:45 PM

Invalid Samples

Sample 7 has not been run, no results available.

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.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad

Created: 1/18/2017 3:45:41 PM
 Modified: 1/18/2017 4:53:45 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		1/18/2017 4:12:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-01-18\2017-01-18_002.xad)		Instrument	Run		1/18/2017 3:45:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/18/2017 3:45:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/18/2017 3:45:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/18/2017 3:45:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/18/2017 3:45:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/18/2017 3:45:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/18/2017 3:45:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1