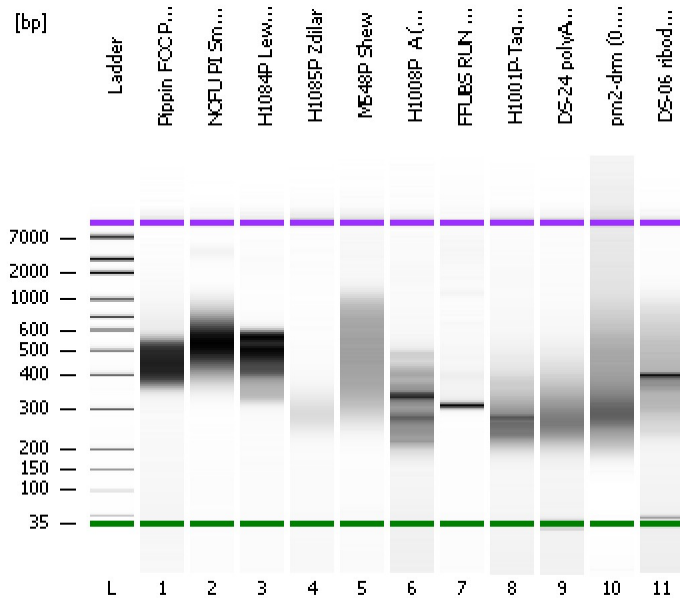


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
Modified: 7/31/2017 2:05:19 PM

Electrophoresis File Run Summary



Instrument Information:

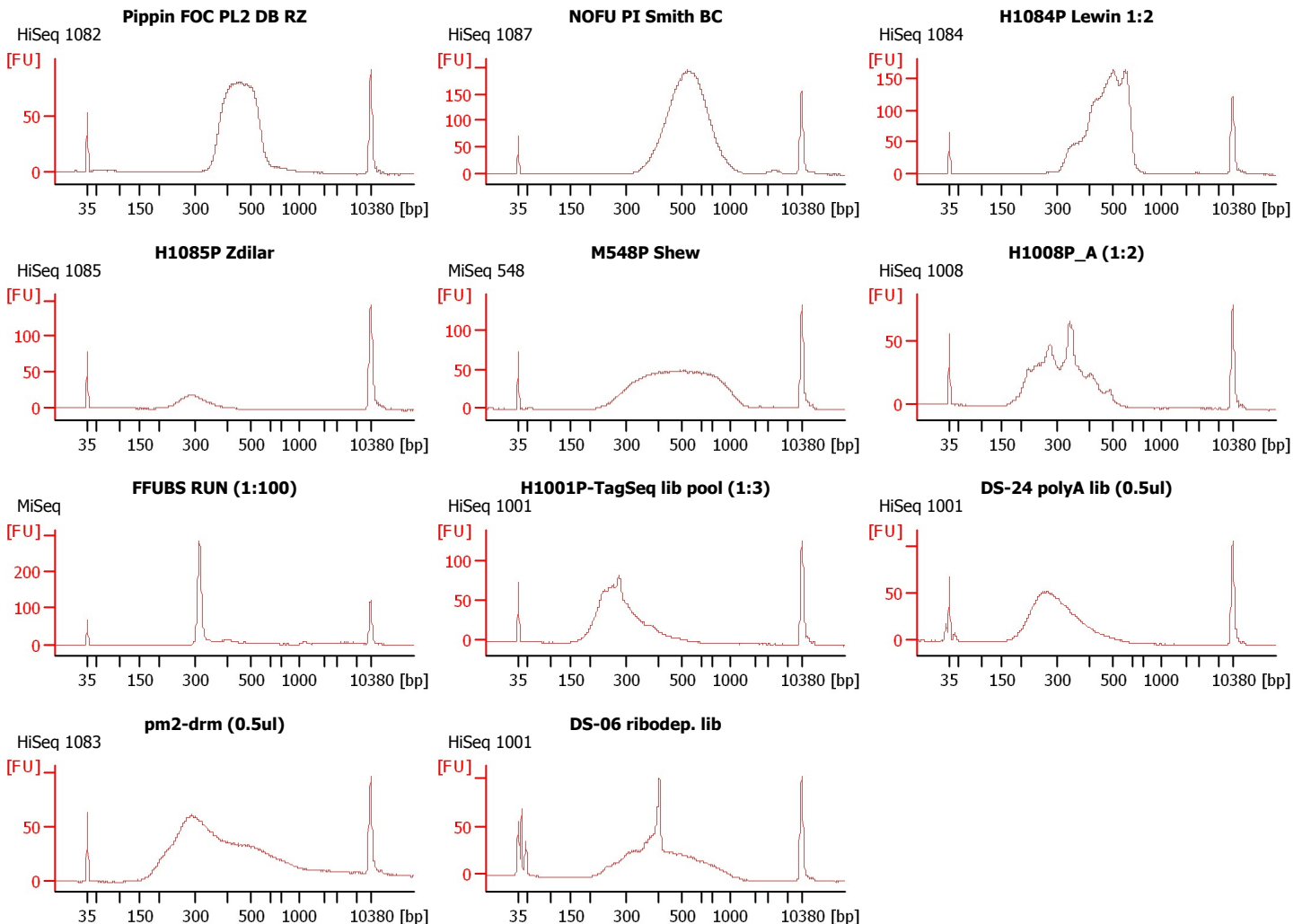
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
Modified: 7/31/2017 2:05:19 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Pippin FOC PL2 DB RZ	HiSeq 1082	<input type="checkbox"/>	✓			
NOFU PI Smith BC	HiSeq 1087	<input type="checkbox"/>	✓			
H1084P Lewin 1:2	HiSeq 1084	<input type="checkbox"/>	✓			
H1085P Zdilar	HiSeq 1085	<input type="checkbox"/>	✓			
M548P Shew	MiSeq 548	<input type="checkbox"/>	✓			
H1008P_A (1:2)	HiSeq 1008	<input type="checkbox"/>	✓			
FFUBS RUN (1:100)	MiSeq	<input type="checkbox"/>	✓			
H1001P-TagSeq lib pool (1:3)	HiSeq 1001	<input type="checkbox"/>	✓			
DS-24 polyA lib (0.5ul)	HiSeq 1001	<input type="checkbox"/>	✓			
pm2-drm (0.5ul)	HiSeq 1083	<input type="checkbox"/>	✓			
DS-06 ribodep. lib	HiSeq 1001	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

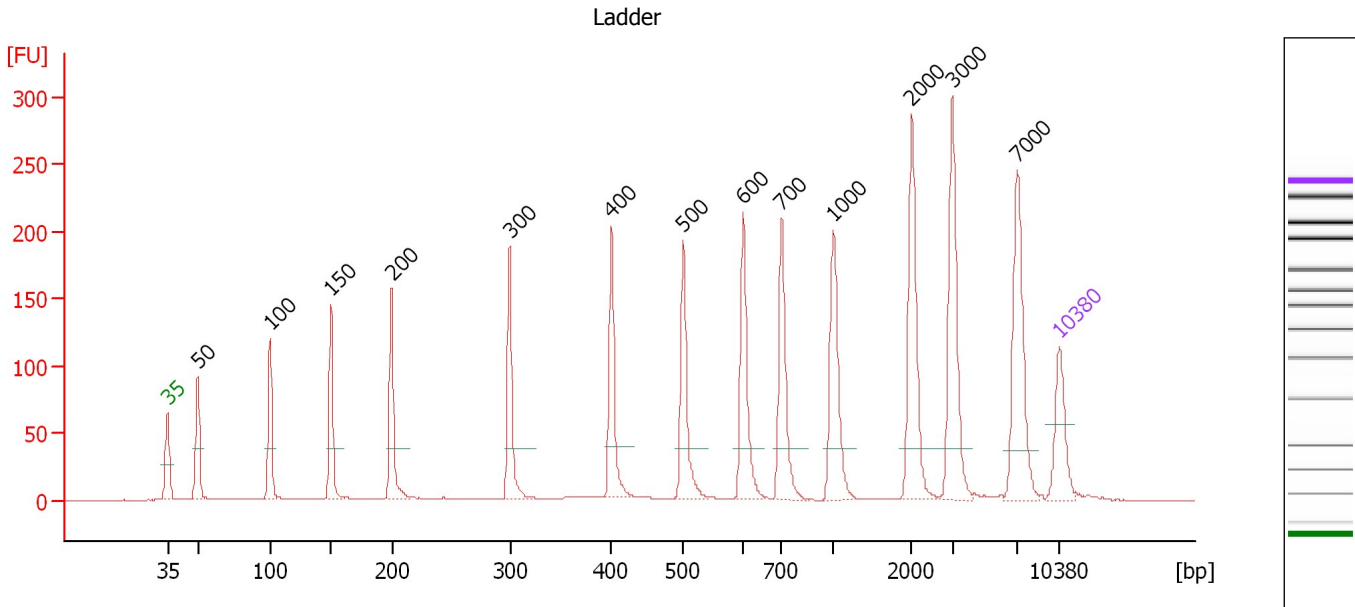
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

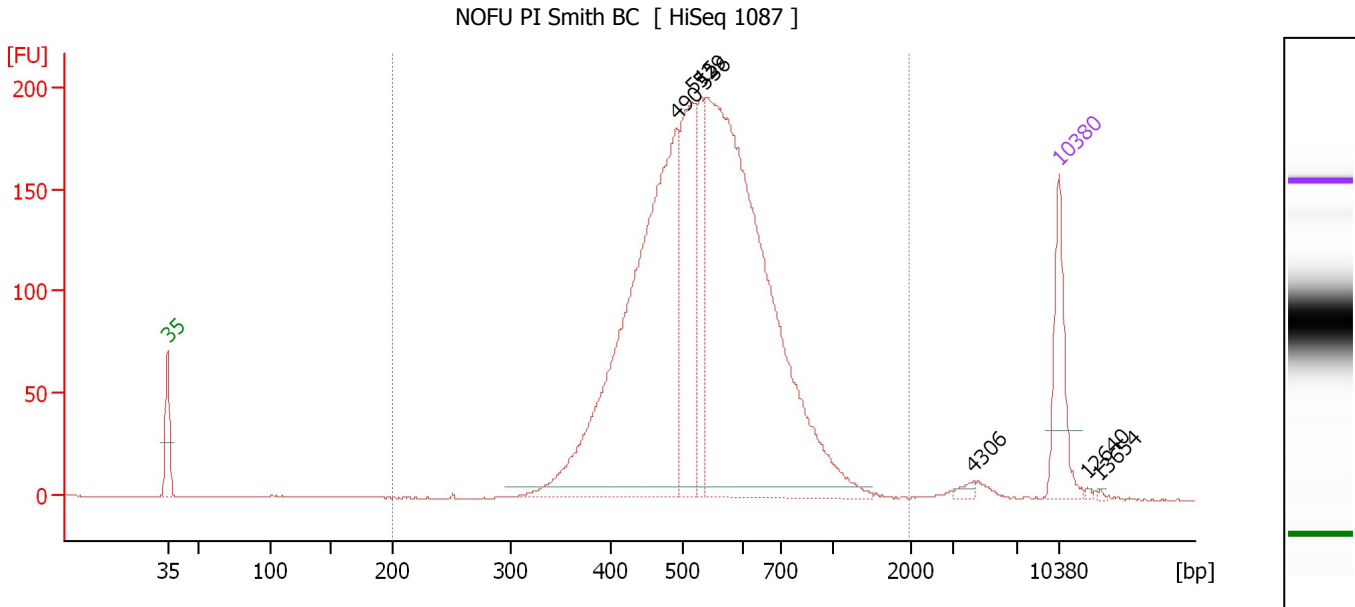
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.03
4	150	150.00	1,515.2	Ladder Peak	55.84
5	200	150.00	1,136.4	Ladder Peak	60.61
6	300	150.00	757.6	Ladder Peak	69.88
7	400	150.00	568.2	Ladder Peak	77.87
8	500	150.00	454.5	Ladder Peak	83.47
9	600	150.00	378.8	Ladder Peak	88.20
10	700	150.00	324.7	Ladder Peak	91.20
11	1,000	150.00	227.3	Ladder Peak	95.26
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.61
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NOFU PI Smith BC

Number of peaks found: 7 Corr. Area 1: 2,873.2
 Noise: 0.2

Peak table for sample 2 : NOFU PI Smith 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	490	793.97	2,454.2		82.92
3	515	247.19	727.1		84.19
4	529	104.64	300.0		84.82
5	536	1,015.53	2,869.8		85.18
6	4,306	6.38	2.2		106.27
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,640	0.00	0.0		115.21
9	13,654	0.00	0.0		116.21

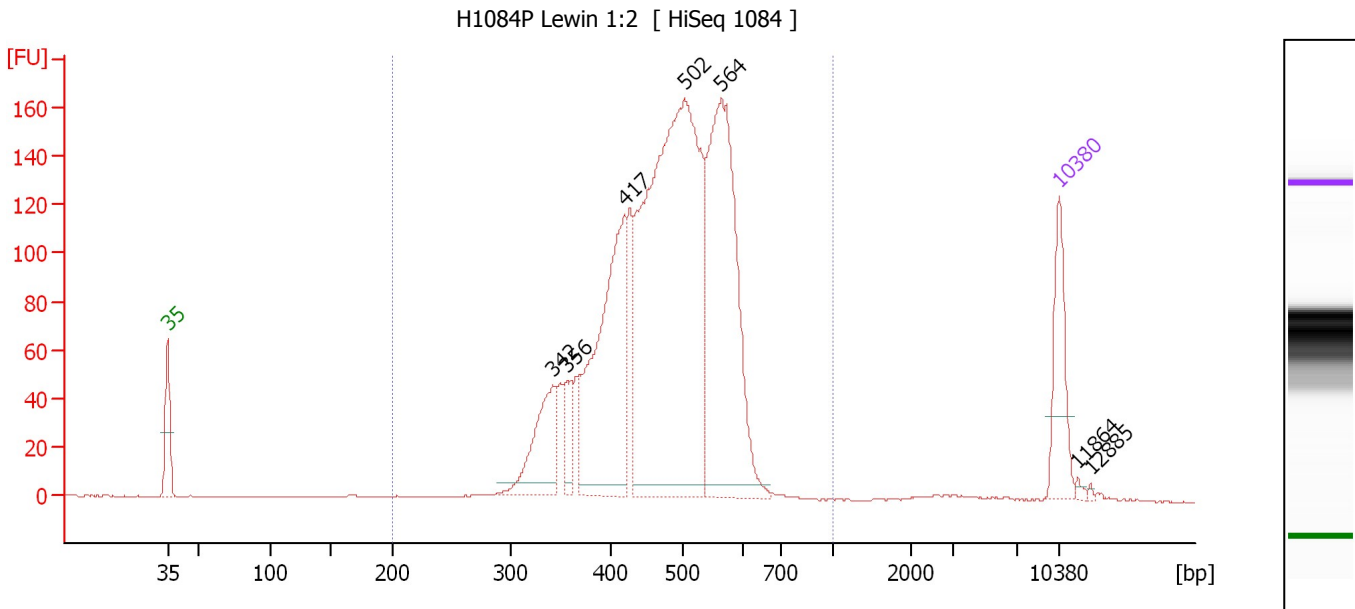
Region table for sample 2 : NOFU PI Smith BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,972	552	2,873.2	6,241.1	2,137.21	98	25.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : H1084P Lewin 1:2

Number of peaks found: 7 Corr. Area 1: 2,305.4
 Noise: 0.2

Peak table for sample 3 : H1084P Lewin 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	342	122.97	544.4		73.25
3	356	43.17	183.5		74.39
4	417	349.79	1,269.9		78.84
5	502	901.39	2,720.9		83.56
6	564	464.20	1,248.1		86.47
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,864	0.00	0.0		114.45
9	12,885	0.00	0.0		115.45

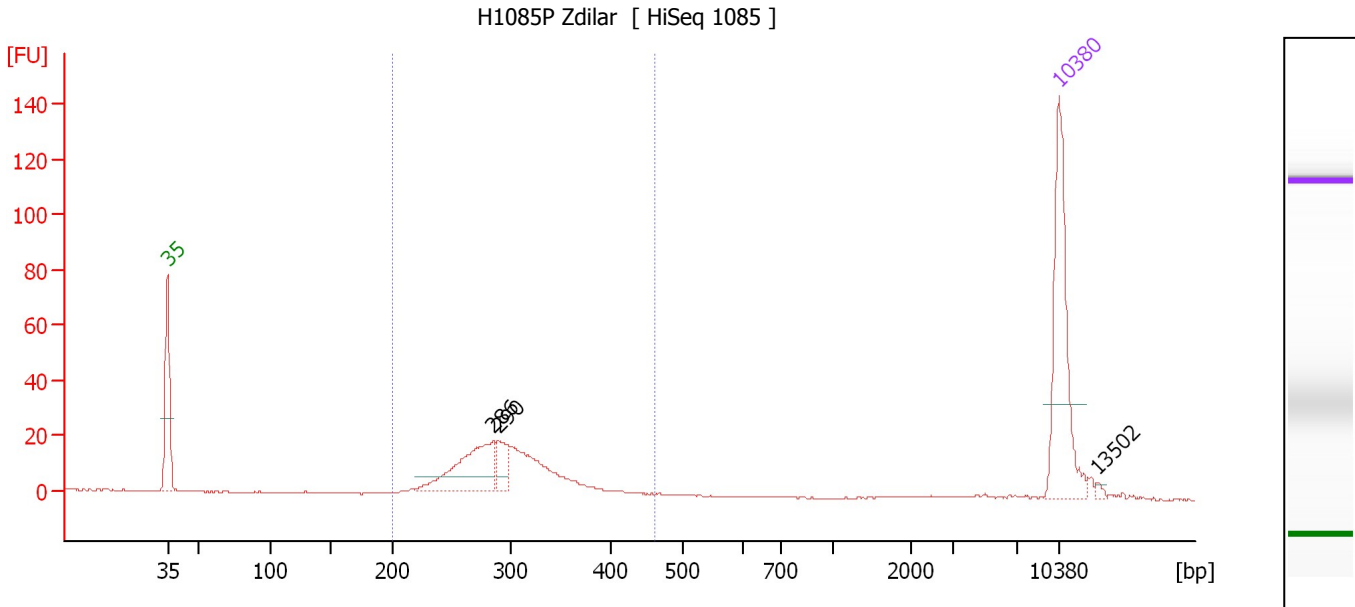
Region table for sample 3 : H1084P Lewin 1:2

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	474	2,305.4	6,997.0	2,103.45	98	16.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : H1085P Zdilar

Number of peaks found: 3 Corr. Area 1: 227.9
 Noise: 0.2

Peak table for sample 4 : H1085P Zdilar

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	286	73.80	390.7		68.60
3	290	21.22	110.8		68.96
4	10,380	75.00	10.9	Upper Marker	113.00
5	13,502	0.00	0.0		116.06

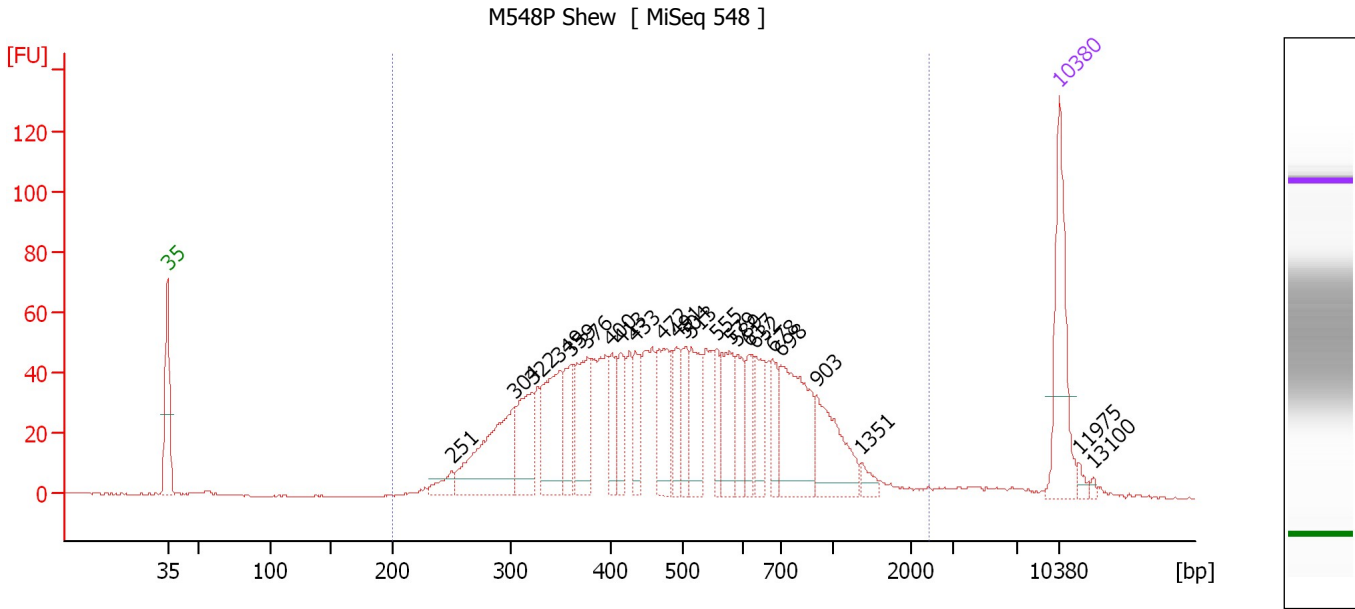
Region table for sample 4 : H1085P Zdilar

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	461	298	227.9	939.1	181.25	92	13.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : M548P Shew

Number of peaks found: 24 Corr. Area 1: 1,588.4
 Noise: 0.2

Peak table for sample 5 : M548P Shew

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	17.10	103.3		65.32
3	304	132.17	657.7		70.24
4	322	67.30	316.4		71.66
5	349	96.34	418.6		73.77
6	359	47.34	199.7		74.60
7	376	74.15	298.5		75.98
8	400	34.07	129.1		77.86
9	413	39.06	143.3		78.60
10	433	38.98	136.5		79.70
11	472	64.78	207.9		81.90
12	491	33.54	103.5		82.96
13	504	33.16	99.7		83.65
14	513	56.55	166.9		84.11
15	555	30.09	82.1		86.08
16	579	48.50	127.0		87.19
17	589	35.93	92.4		87.69
18	617	29.45	72.3		88.70
19	632	39.28	94.1		89.16
20	678	30.24	67.6		90.54
21	698	107.50	233.3		91.14
22	903	69.70	117.0		93.94
23	1,351	9.55	10.7		97.43
24	10,380	75.00	10.9	Upper Marker	113.00
25	11,975	0.00	0.0		114.56

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...**... Peak table for sample 5 : M548P Shew**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,100	0.00	0.0		115.66

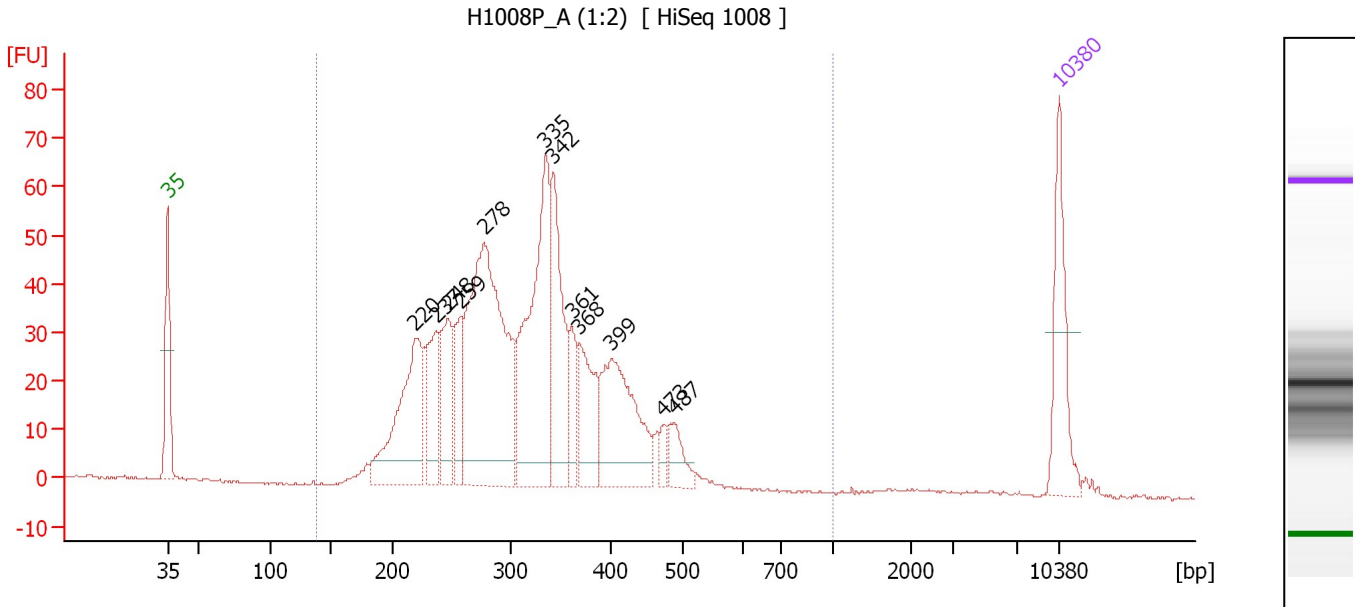
Region table for sample 5 : M548P Shew

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	2,423	548	1,588.4	5,033.1	1,464.79	97	48.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : H1008P A (1:2)

Number of peaks found: 12 Corr. Area 1: 1,056.0
 Noise: 0.3

Peak table for sample 6 : H1008P A (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	220	197.44	1,360.7		62.45
3	237	88.84	567.5		64.06
4	248	90.16	550.7		65.06
5	259	68.70	402.0		66.07
6	278	421.41	2,294.7		67.86
7	335	281.12	1,271.3		72.68
8	342	147.27	652.6		73.23
9	361	46.51	195.3		74.74
10	368	86.68	356.5		75.34
11	399	166.01	630.7		77.77
12	473	15.98	51.2		81.94
13	487	32.89	102.2		82.77
14	10,380	75.00	10.9	Upper Marker	113.00

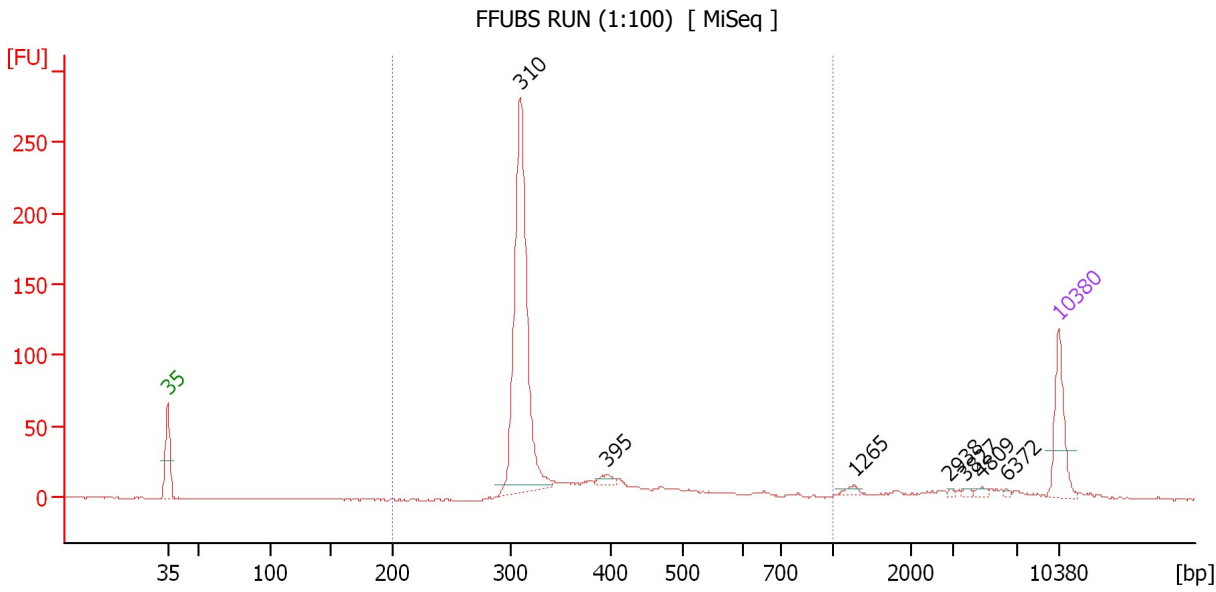
Region table for sample 6 : H1008P A (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
138	1,000	319	1,056.0	8,923.8	1,741.32	98	23.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : FFUBS RUN (1:100)

Number of peaks found: 7 Corr. Area 1: 712.1
 Noise: 0.3

Peak table for sample 7 : FFUBS RUN (1:100)

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	310	620.05	3,029.5		70.69
3	395	15.30	58.7		77.47
4	1,265	8.05	9.6		96.90
5	2,938	2.88	1.5		104.42
6	3,827	4.17	1.7		105.66
7	4,809	5.70	1.8		106.91
8	6,372	2.58	0.6		108.89
9	10,380	75.00	10.9	Upper Marker	113.00

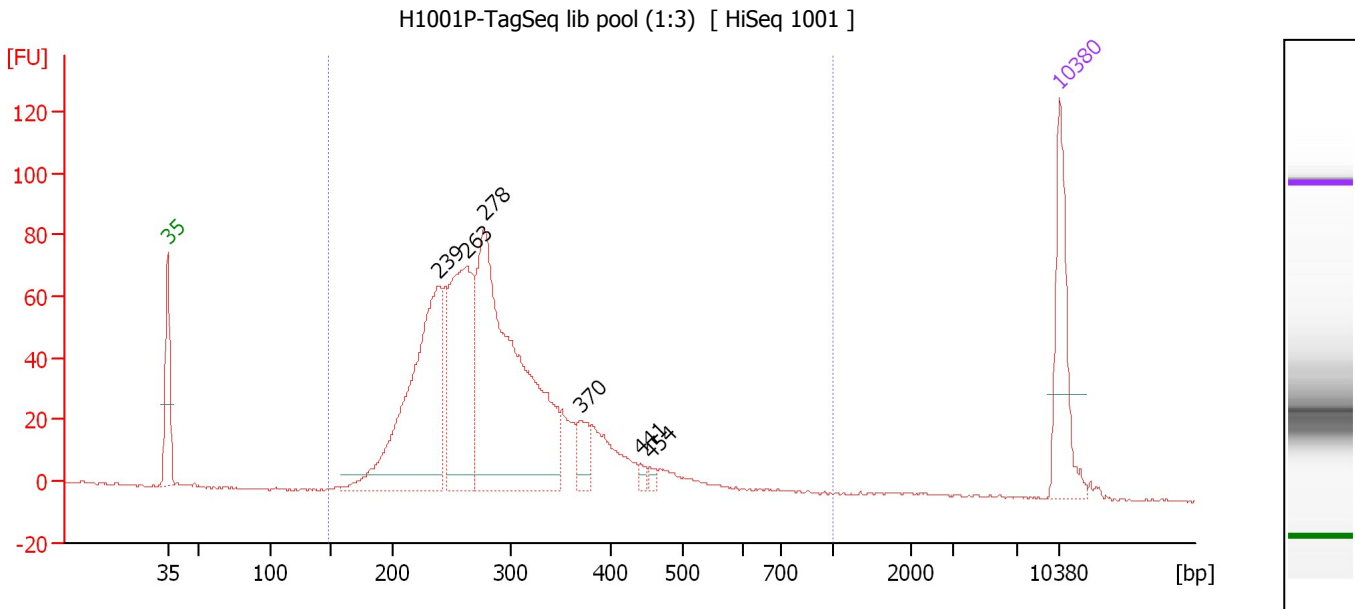
Region table for sample 7 : FFUBS RUN (1:100)

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	366	712.1	4,026.1	905.58	84	29.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : H1001P-TagSeq lib pool (1:3)

Number of peaks found: 6 Corr. Area 1: 1,280.5
 Noise: 0.3

Peak table for sample 8 : H1001P-TagSeq lib pool (1:3)

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	239	344.58	2,184.4		64.23
3	263	245.21	1,410.5		66.49
4	278	510.62	2,784.5		67.83
5	370	29.93	122.5		75.49
6	441	6.17	21.2		80.15
7	454	4.92	16.4		80.88
8	10,380	75.00	10.9	Upper Marker	113.00

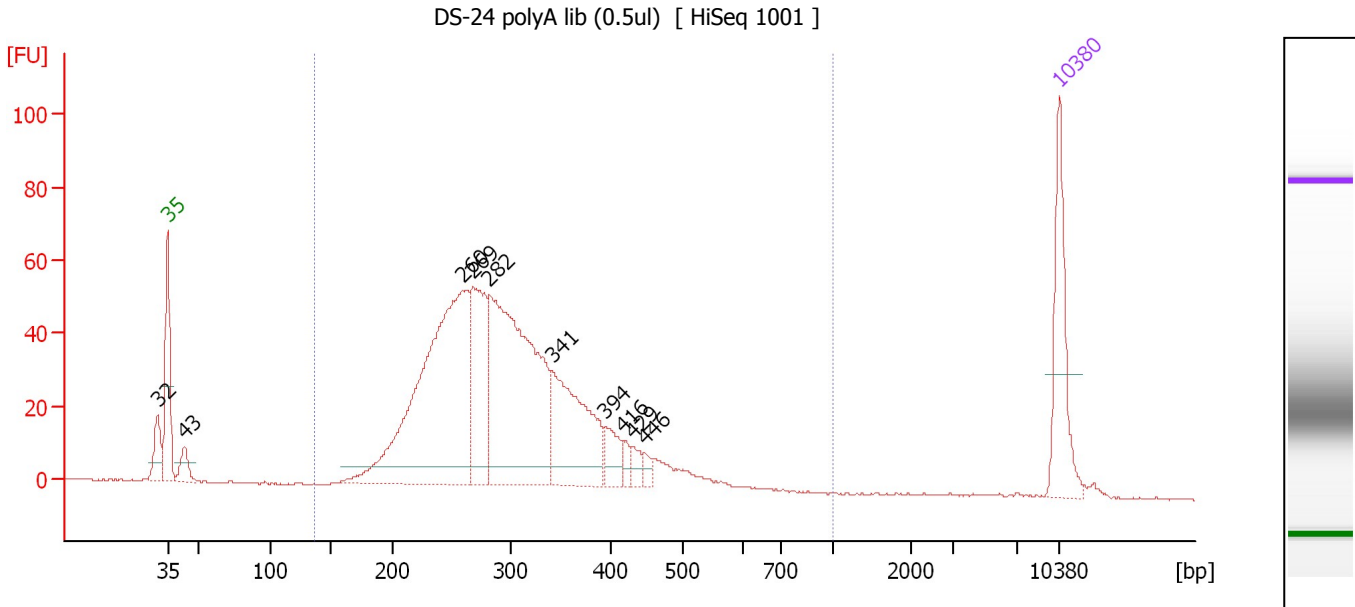
Region table for sample 8 : H1001P-TagSeq lib pool (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
147	1,000	297	1,280.5	7,225.5	1,319.21	98	27.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DS-24 polyA lib (0.5ul)

Number of peaks found: 10 Corr. Area 1: 1,053.2
 Noise: 0.2

Peak table for sample 9 : DS-24 polyA lib (0.5ul)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.22
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	28.87	1,008.4		44.33
4	260	485.87	2,832.2		66.17
5	269	146.75	827.0		66.99
6	282	406.58	2,182.9		68.23
7	341	166.48	738.9		73.18
8	394	32.04	123.3		77.36
9	416	11.05	40.2		78.78
10	429	12.61	44.5		79.51
11	446	8.87	30.2		80.43
12	10,380	75.00	10.9	Upper Marker	113.00

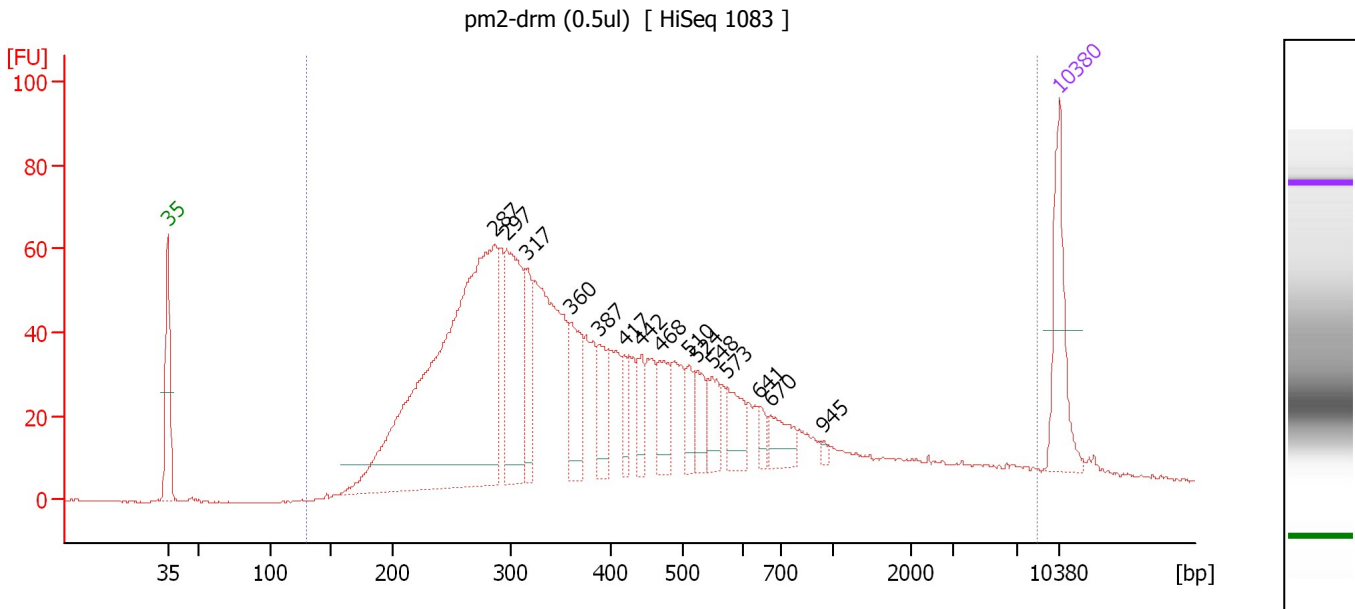
Region table for sample 9 : DS-24 polyA lib (0.5ul)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
136	1,000	305	1,053.2	7,103.7	1,334.58	96	24.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : pm2-drm (0.5ul)

Number of peaks found: 15 Corr. Area 1: 1,729.8
 Noise: 0.2

Peak table for sample 10 : pm2-drm (0.5ul)

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	287	780.10	4,123.3		68.64
3	297	191.29	975.7		69.61
4	317	64.74	309.8		71.21
5	360	81.05	341.4		74.65
6	387	47.82	187.1		76.85
7	417	30.54	110.9		78.83
8	442	28.99	99.4		80.20
9	468	50.27	162.8		81.67
10	510	28.07	83.3		83.96
11	524	34.44	99.6		84.61
12	548	37.31	103.1		85.75
13	573	41.62	110.2		86.90
14	641	13.81	32.6		89.42
15	670	34.83	78.8		90.29
16	945	3.91	6.3		94.51
17	10,380	75.00	10.9	Upper Marker	113.00

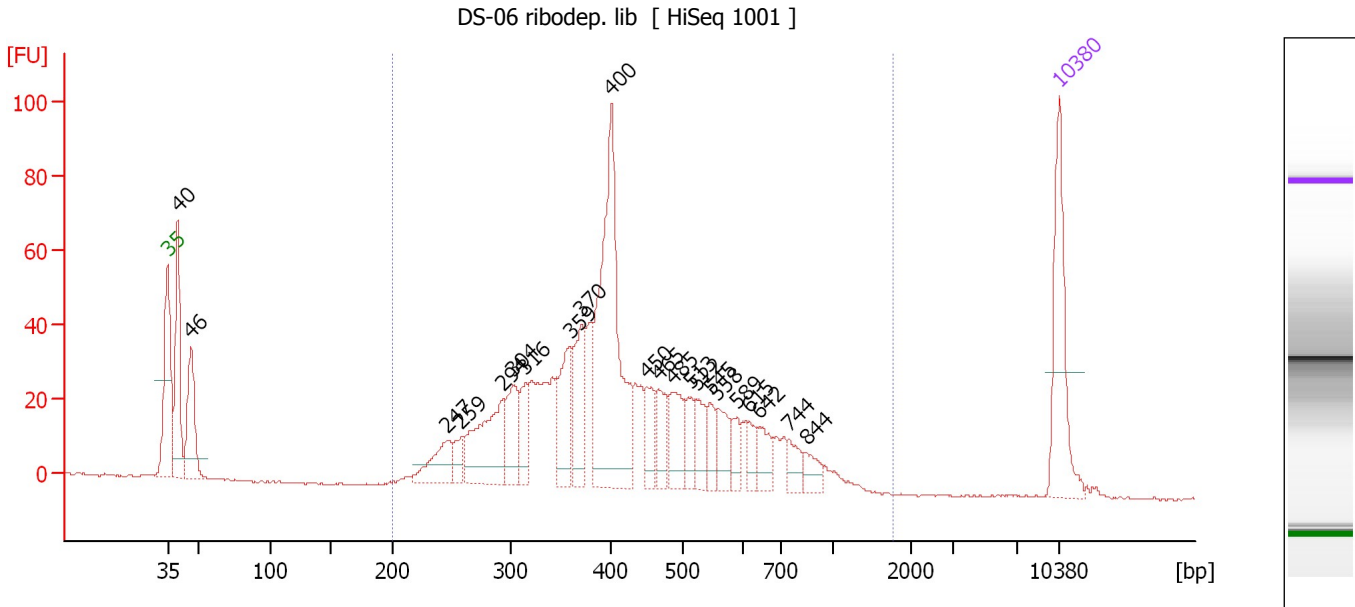
Region table for sample 10 : pm2-drm (0.5ul)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
131	8,547	606	1,729.8	11,179.6	2,483.82	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
 Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : DS-06 ribodep. lib

Number of peaks found: 22 Corr. Area 1: 1,019.8
 Noise: 0.3

Peak table for sample 11 : DS-06 ribodep. lib

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	40	124.69	4,705.9		43.82
3	46	94.38	3,079.6		44.82
4	247	47.32	290.6		64.94
5	259	18.99	111.1		66.08
6	294	102.90	529.9		69.35
7	304	49.47	246.9		70.16
8	316	32.95	158.3		71.12
9	359	60.04	253.2		74.62
10	370	65.13	266.6		75.48
11	400	249.99	947.7		77.84
12	450	31.65	106.6		80.66
13	465	33.50	109.1		81.52
14	485	43.54	135.9		82.66
15	513	25.62	75.7		84.06
16	522	27.08	78.6		84.52
17	545	22.67	63.0		85.61
18	558	28.74	78.1		86.20
19	589	17.90	46.0		87.70
20	615	15.55	38.3		88.65
21	642	23.74	56.0		89.47
22	744	17.67	36.0		91.79
23	844	15.63	28.1		93.15
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
Modified: 7/31/2017 2:05:19 PM

Electropherogram Summary Continued ...

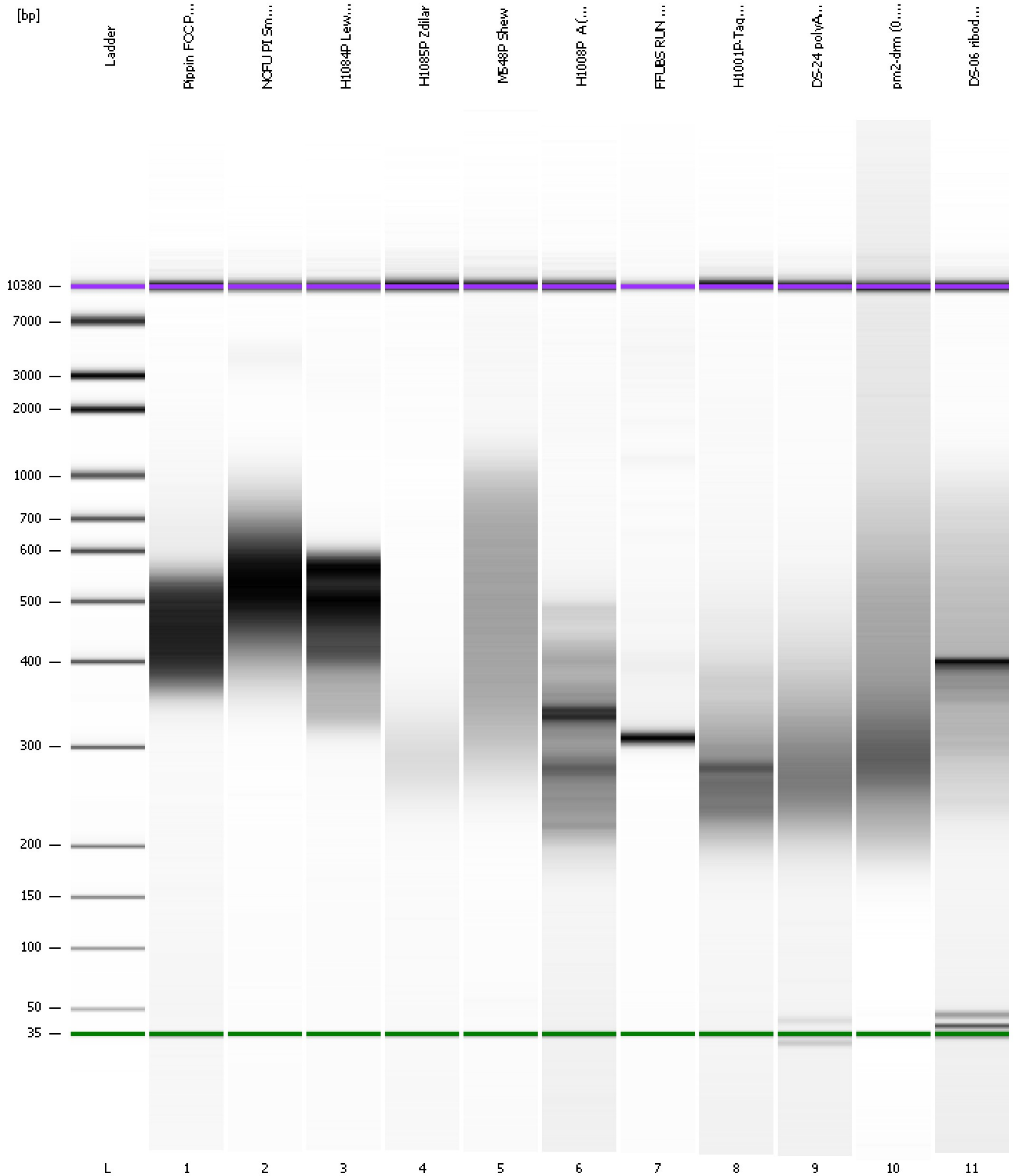
... Region table for sample 11 : DS-06 ribodep. lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,748	442	1,019.8	4,575.6	■ 1,170.06	89	34.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
Modified: 7/31/2017 2:05:19 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-31\2017-07-31_001.xad

Created: 7/31/2017 1:06:35 PM
Modified: 7/31/2017 2:05:19 PM

Curves

Standard Curve

