

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-19\2016-10-19_002.xad

Created: 10/19/2016 11:41:49 AM
Modified: 10/19/2016 12:22:17 PM

Electrophoresis File Run Summary

Instrument Information:

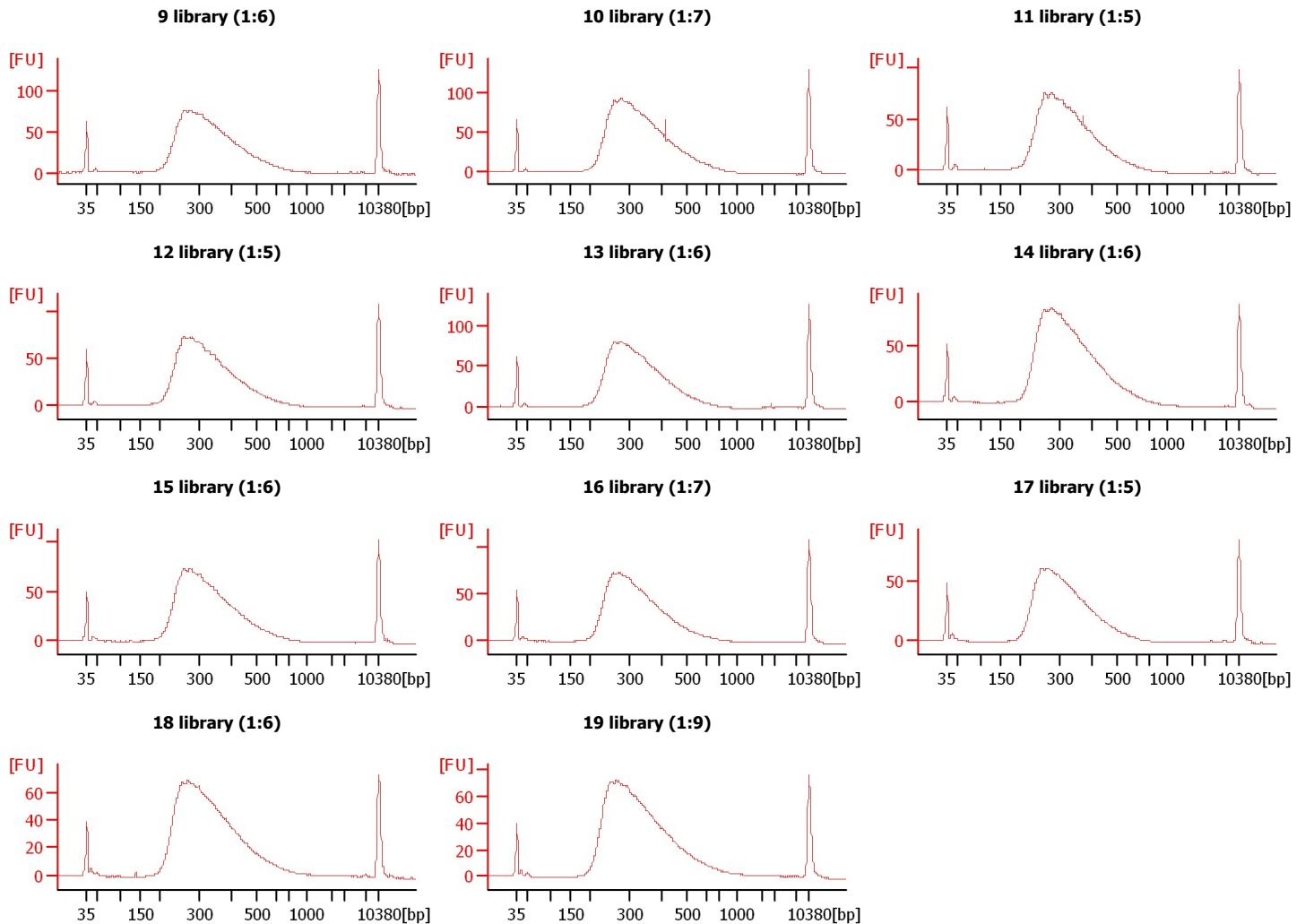
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
9 library (1:6)		<input type="checkbox"/>	✓			
10 library (1:7)		<input type="checkbox"/>	✓			
11 library (1:5)		<input type="checkbox"/>	✓			
12 library (1:5)		<input type="checkbox"/>	✓			
13 library (1:6)		<input type="checkbox"/>	✓			
14 library (1:6)		<input type="checkbox"/>	✓			
15 library (1:6)		<input type="checkbox"/>	✓			
16 library (1:7)		<input type="checkbox"/>	✓			
17 library (1:5)		<input type="checkbox"/>	✓			
18 library (1:6)		<input type="checkbox"/>	✓			
19 library (1:9)		<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

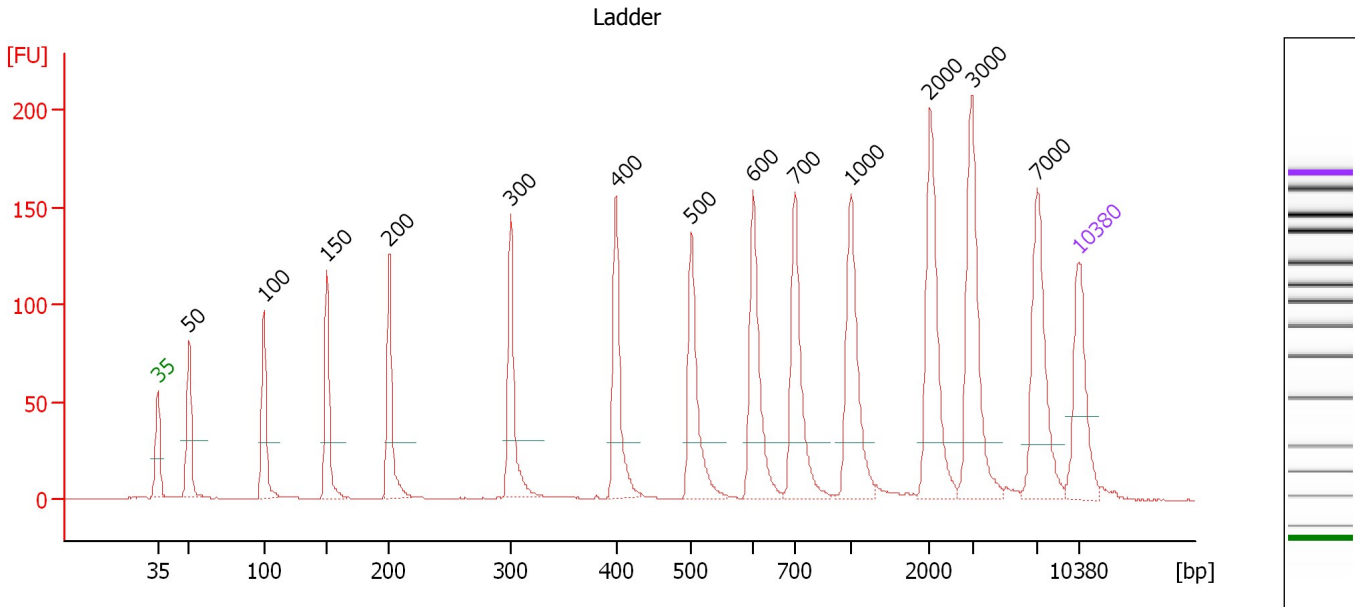
Ladder

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: 0.2

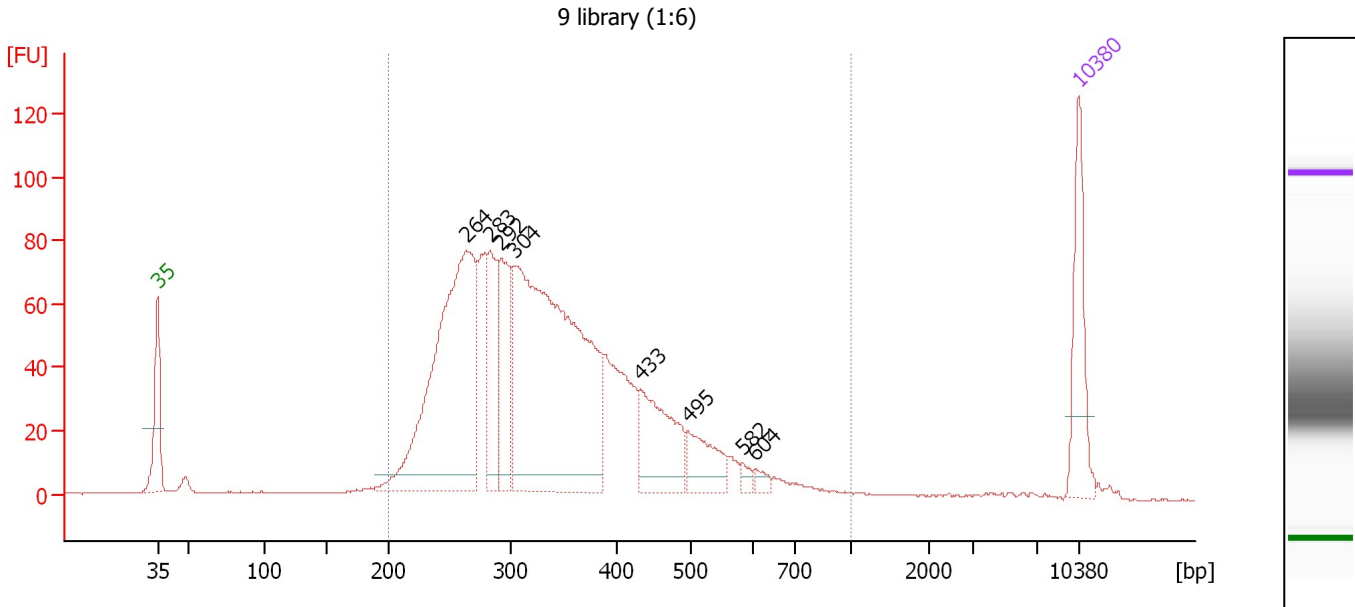
Peak table for Ladder

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	45.39
3	100	150.00	2,272.7	Ladder Peak	51.08
4	150	150.00	1,515.2	Ladder Peak	55.86
5	200	150.00	1,136.4	Ladder Peak	60.60
6	300	150.00	757.6	Ladder Peak	69.82
7	400	150.00	568.2	Ladder Peak	77.86
8	500	150.00	454.5	Ladder Peak	83.59
9	600	150.00	378.8	Ladder Peak	88.28
10	700	150.00	324.7	Ladder Peak	91.44
11	1,000	150.00	227.3	Ladder Peak	95.69
12	2,000	150.00	113.6	Ladder Peak	101.72
13	3,000	150.00	75.8	Ladder Peak	104.92
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 9 library (1:6)

Number of peaks found: 8 Corr. Area 1: 1,684.5
 Noise: 0.2

Peak table for sample 1 : 9 library (1:6)

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	264	516.17	2,963.4		66.49
3	283	121.25	648.8		68.27
4	292	115.33	598.5		69.08
5	304	676.13	3,371.0		70.14
6	433	120.10	420.6		79.73
7	495	60.87	186.2		83.32
8	582	8.56	22.3		87.45
9	604	8.89	22.3		88.40
10	10,380	75.00	10.9	Upper Marker	113.00

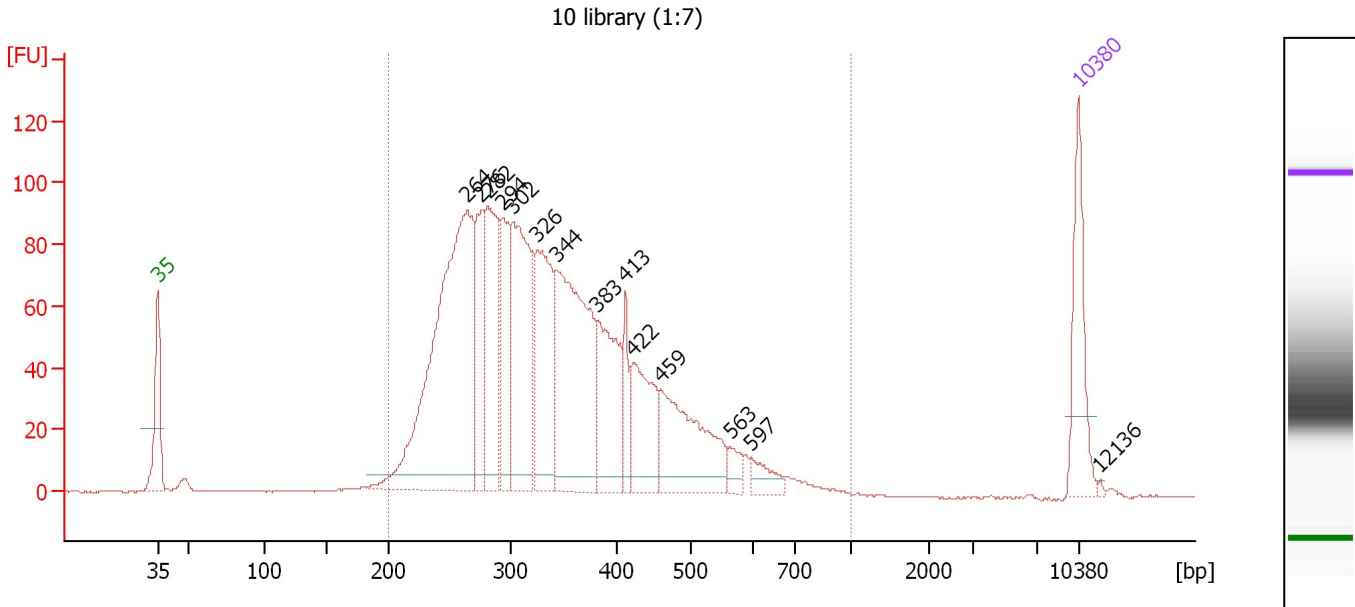
Region table for sample 1 : 9 library (1:6)

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	348	1,684.5	9,291.5	1,939.01	96	29.5

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 10 library (1:7)

Number of peaks found: 14 Corr. Area 1: 2,023.5
 Noise: 0.2

Peak table for sample 2 : 10 library (1:7)

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	264	554.99	3,182.0		66.53
3	276	105.13	576.6		67.63
4	282	179.03	963.6		68.12
5	294	112.42	580.3		69.23
6	302	241.29	1,209.9		70.00
7	326	173.91	809.4		71.88
8	344	303.23	1,337.2		73.32
9	383	130.08	515.2		76.46
10	413	40.31	148.0		78.58
11	422	104.89	376.8		79.11
12	459	153.33	506.4		81.23
13	563	18.70	50.3		86.53
14	597	23.63	60.0		88.12
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,136	0.00	0.0		114.64

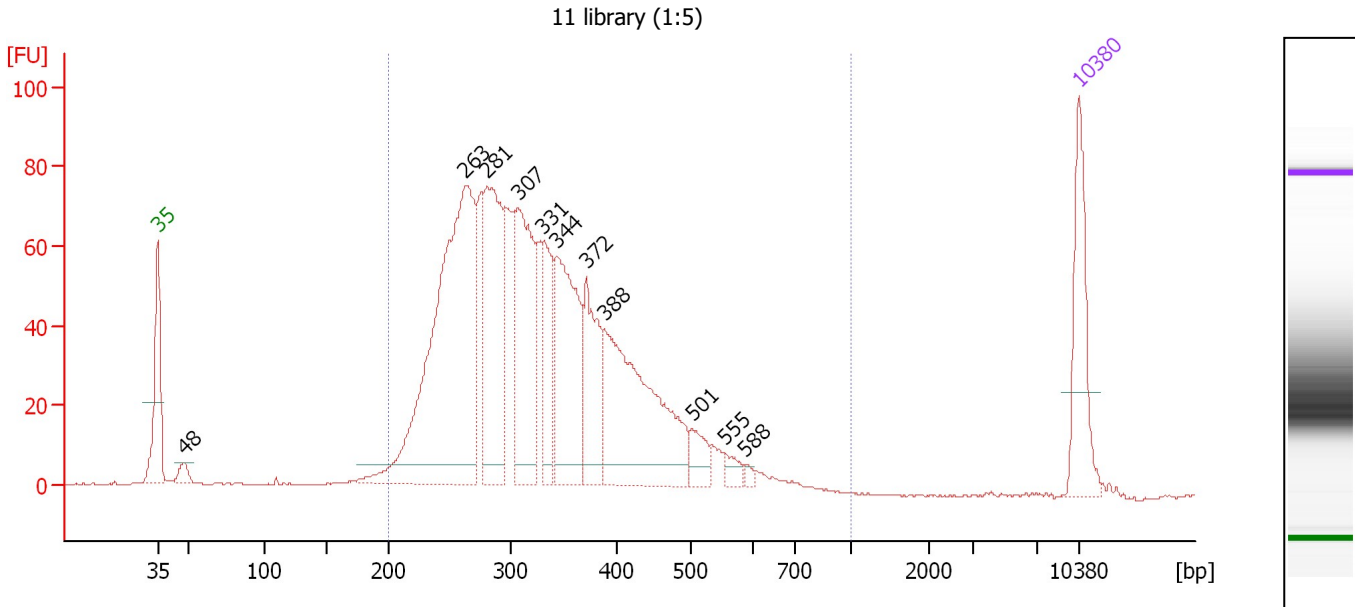
Region table for sample 2 : 10 library (1:7)

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	349	2,023.5	10,628.4	2,226.78	98	29.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 11 library (1:5)

Number of peaks found: 11 Corr. Area 1: 1,553.5
 Noise: 0.2

Peak table for sample 3 : 11 library (1:5)

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	48	16.61	528.4		45.01
3	263	553.53	3,194.6		66.37
4	281	223.92	1,209.0		68.04
5	307	201.60	994.8		70.39
6	331	85.92	393.4		72.31
7	344	189.80	836.6		73.34
8	372	102.00	415.6		75.59
9	388	263.95	1,029.8		76.92
10	501	27.93	84.5		83.65
11	555	12.94	35.4		86.15
12	588	5.03	13.0		87.72
13	10,380	75.00	10.9	Upper Marker	113.00

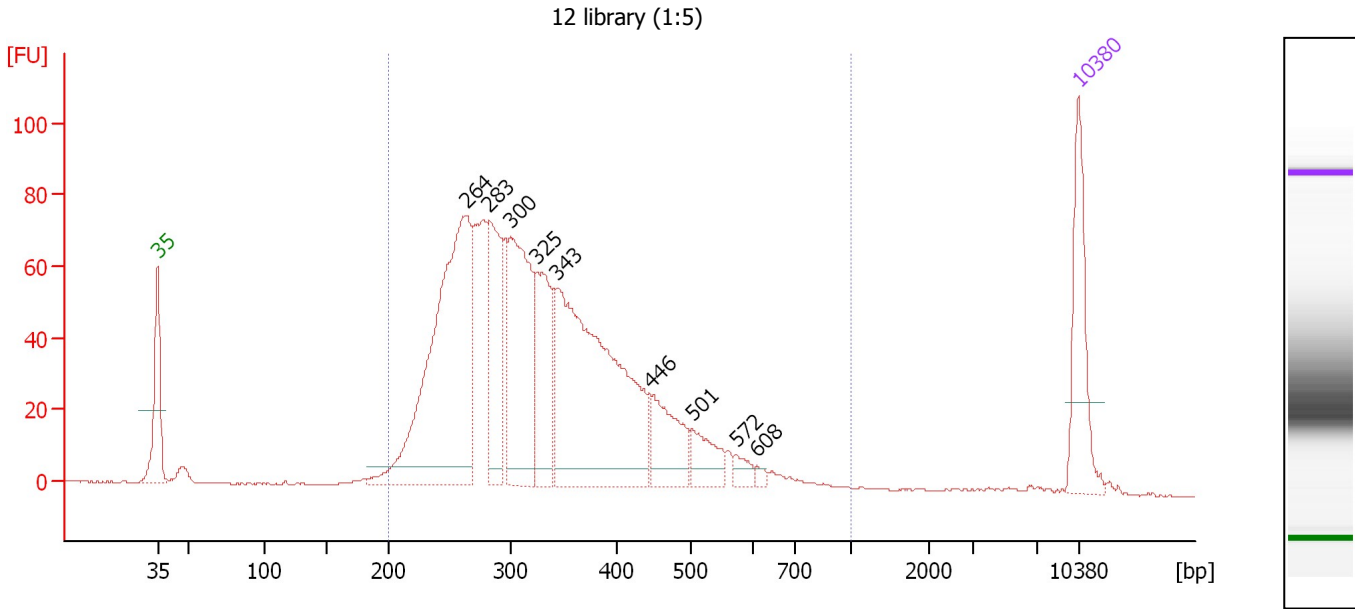
Region table for sample 3 : 11 library (1:5)

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	336	1,553.5	9,599.1	1,969.76	96	26.2

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 12 library (1:5)

Number of peaks found: 9 Corr. Area 1: 1,544.5
 Noise: 0.2

Peak table for sample 4 : 12 library (1:5)

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	264	473.44	2,715.5		66.52
3	283	130.78	701.2		68.22
4	300	224.44	1,133.7		69.82
5	325	127.76	595.9		71.82
6	343	432.06	1,909.0		73.27
7	446	77.76	264.3		80.48
8	501	41.40	125.3		83.63
9	572	12.77	33.8		86.98
10	608	5.39	13.4		88.53
11	10,380	75.00	10.9	Upper Marker	113.00

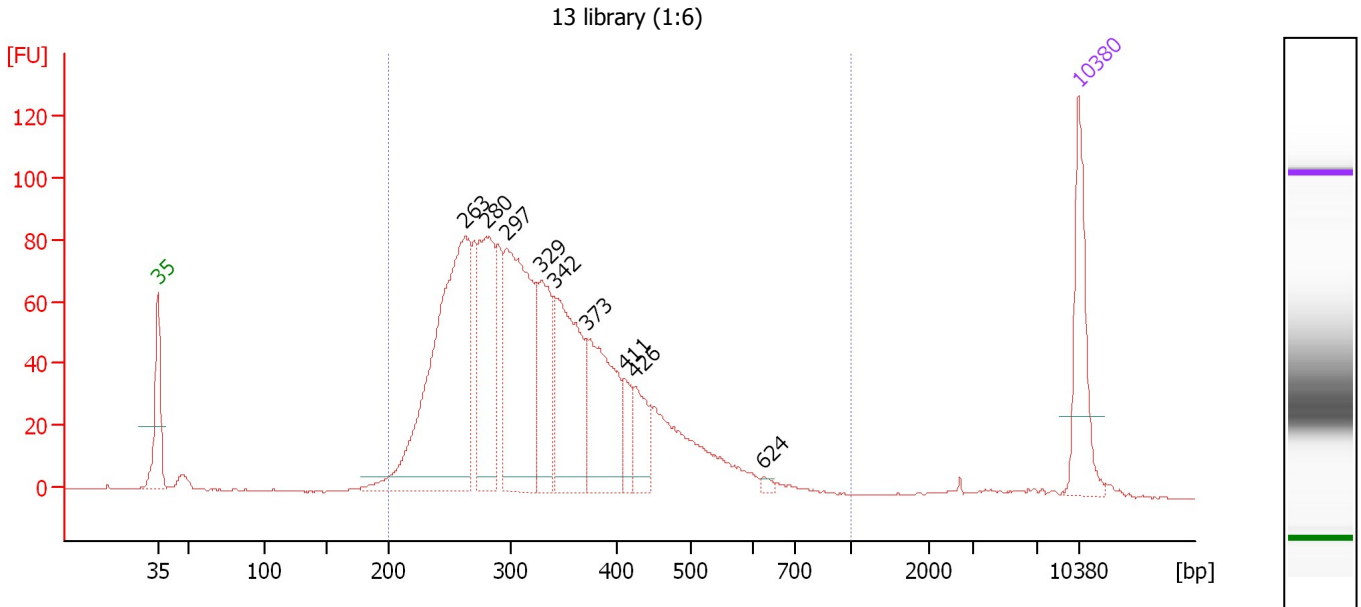
Region table for sample 4 : 12 library (1:5)

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	342	1,544.5	8,504.5	1,751.87	97	29.0

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 13 library (1:6)

Number of peaks found: 9 Corr. Area 1: 1,676.8
 Noise: 0.1

Peak table for sample 5 : 13 library (1:6)

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	263	454.54	2,619.5		66.40
3	280	182.89	989.7		67.98
4	297	283.45	1,445.6		69.56
5	329	109.41	503.9		72.15
6	342	188.26	835.0		73.17
7	373	149.91	609.5		75.66
8	411	32.18	118.5		78.51
9	426	48.43	172.4		79.32
10	624	4.46	10.8		89.04
11	10,380	75.00	10.9	Upper Marker	113.00

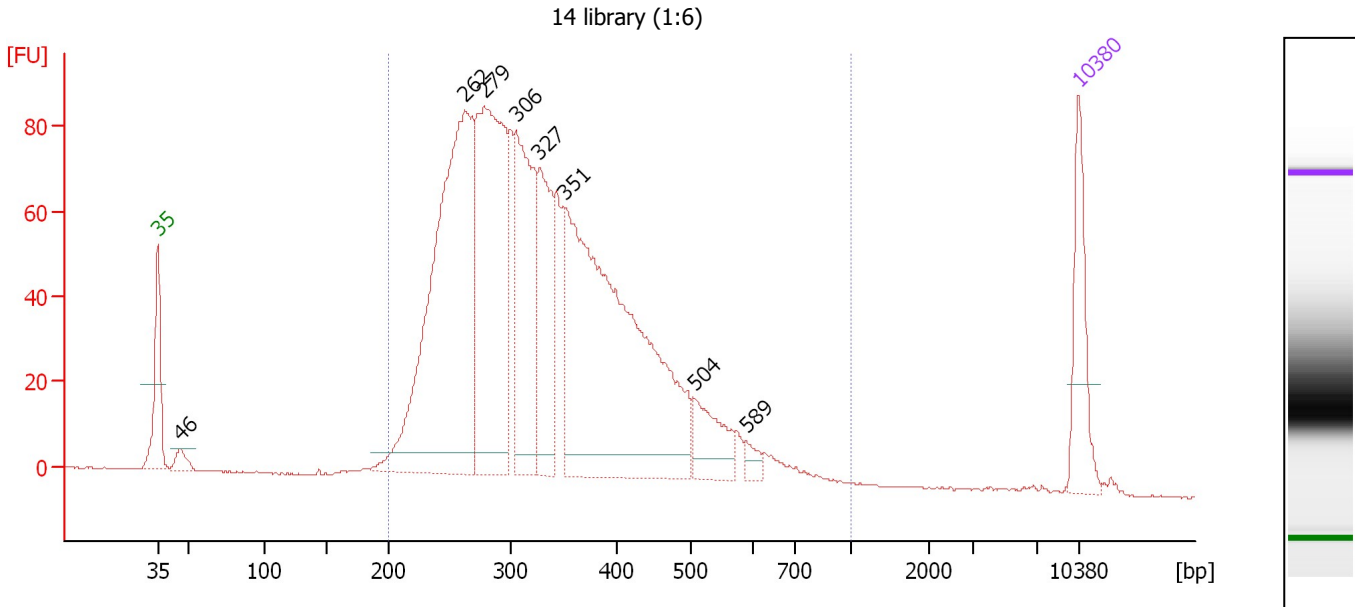
Region table for sample 5 : 13 library (1:6)

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	338	1,676.8	8,458.8	1,737.32	97	26.9

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 14 library (1:6)

Number of peaks found: 8 Corr. Area 1: 1,787.5
 Noise: 0.2

Peak table for sample 6 : 14 library (1:6)

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	46	19.73	654.6		44.70
3	262	669.42	3,865.9		66.35
4	279	451.27	2,454.5		67.85
5	306	256.52	1,272.1		70.27
6	327	168.87	781.6		72.02
7	351	690.11	2,978.2		73.93
8	504	69.87	210.1		83.77
9	589	13.26	34.1		87.74
10	10,380	75.00	10.9	Upper Marker	113.00

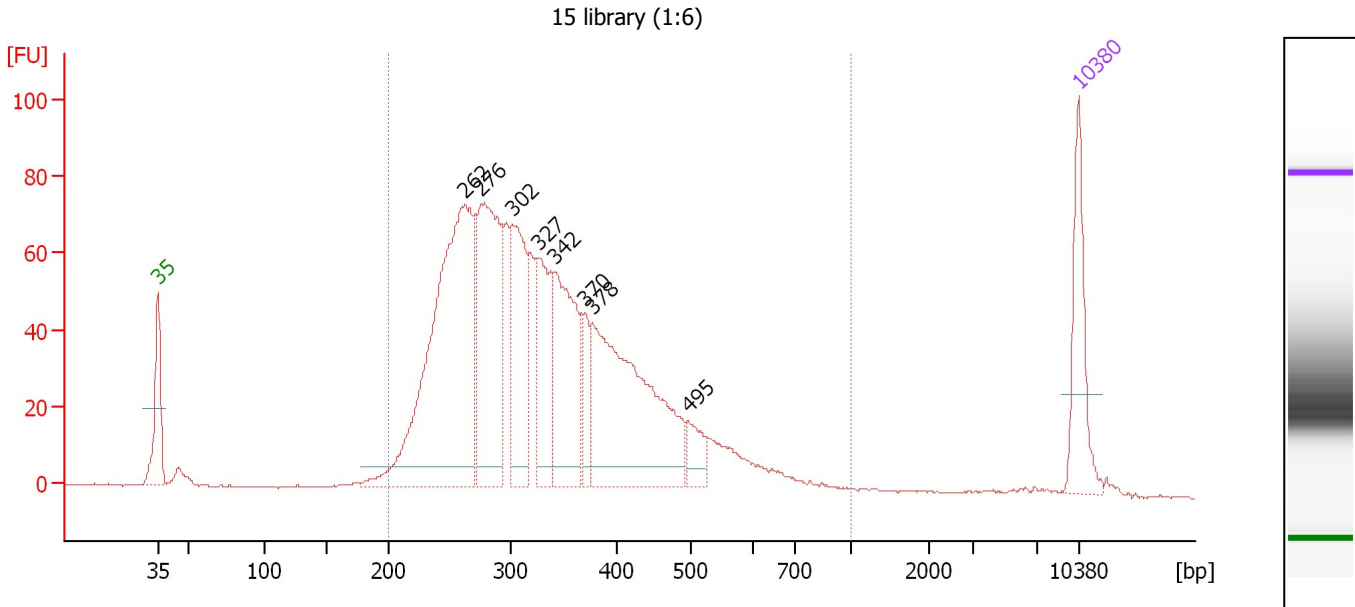
Region table for sample 6 : 14 library (1:6)

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	340	1,787.5	12,041.6	2,485.35	99	27.2

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 15 library (1:6)

Number of peaks found: 8 Corr. Area 1: 1,520.4
 Noise: 0.2

Peak table for sample 7 : 15 library (1:6)

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	262	560.28	3,242.6		66.30
3	276	290.46	1,594.7		67.61
4	302	160.69	806.9		69.96
5	327	122.18	567.0		71.95
6	342	180.49	799.3		73.21
7	370	48.08	197.1		75.41
8	378	331.45	1,328.6		76.09
9	495	33.58	102.8		83.31
10	10,380	75.00	10.9	Upper Marker	113.00

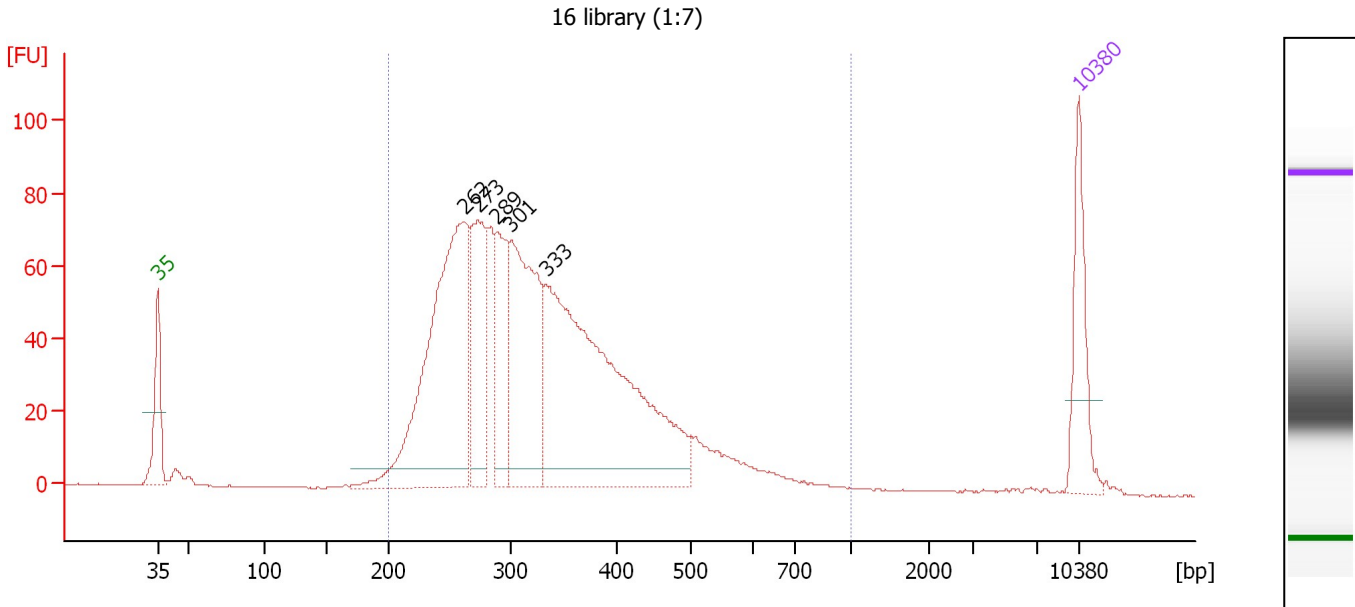
Region table for sample 7 : 15 library (1:6)

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	343	1,520.4	9,637.8	1,988.61	97	29.2

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 16 library (1:7)

Number of peaks found: 5 Corr. Area 1: 1,473.5
 Noise: 0.2

Peak table for sample 8 : 16 library (1:7)

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	262	489.22	2,831.4		66.30
3	273	173.70	963.0		67.36
4	289	126.01	661.0		68.79
5	301	276.68	1,392.6		69.91
6	333	603.73	2,743.6		72.51
7	10,380	75.00	10.9	Upper Marker	113.00

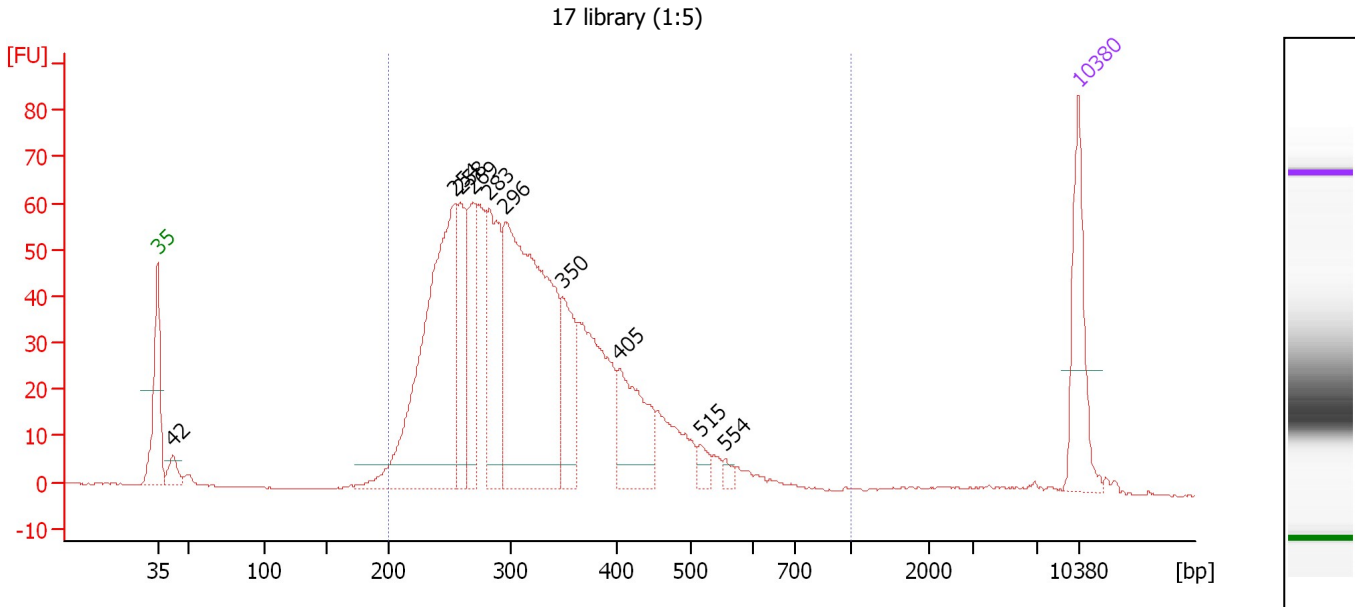
Region table for sample 8 : 16 library (1:7)

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	338	1,473.5	8,946.4	1,824.23	97	29.3

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 17 library (1:5)

Number of peaks found: 10 Corr. Area 1: 1,200.8
 Noise: 0.1

Peak table for sample 9 : 17 library (1:5)

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	42	24.36	871.3		44.17
3	254	429.77	2,560.8		65.60
4	258	111.13	651.8		65.98
5	269	108.52	610.6		66.99
6	283	157.29	843.4		68.22
7	296	490.18	2,510.1		69.44
8	350	97.42	422.1		73.81
9	405	108.44	405.9		78.13
10	515	14.22	41.8		84.32
11	554	6.94	19.0		86.13
12	10,380	75.00	10.9	Upper Marker	113.00

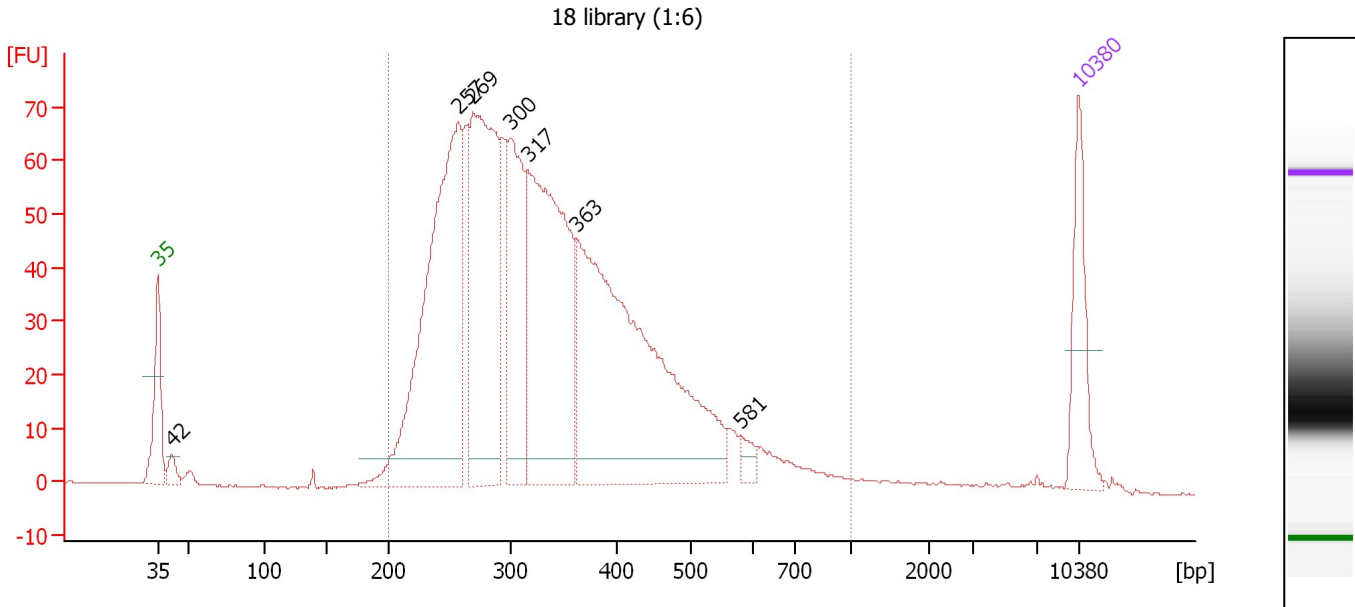
Region table for sample 9 : 17 library (1:5)

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	328	1,200.8	9,483.8	1,897.39	96	27.0

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 18 library (1:6)

Number of peaks found: 7 Corr. Area 1: 1,470.6
 Noise: 0.1

Peak table for sample 10 : 18 library (1:6)

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	42	20.23	734.3		44.07
3	257	577.88	3,410.3		65.83
4	269	438.50	2,470.1		66.96
5	300	212.19	1,072.3		69.81
6	317	456.55	2,185.5		71.15
7	363	641.37	2,679.6		74.86
8	581	15.25	39.8		87.37
9	10,380	75.00	10.9	Upper Marker	113.00

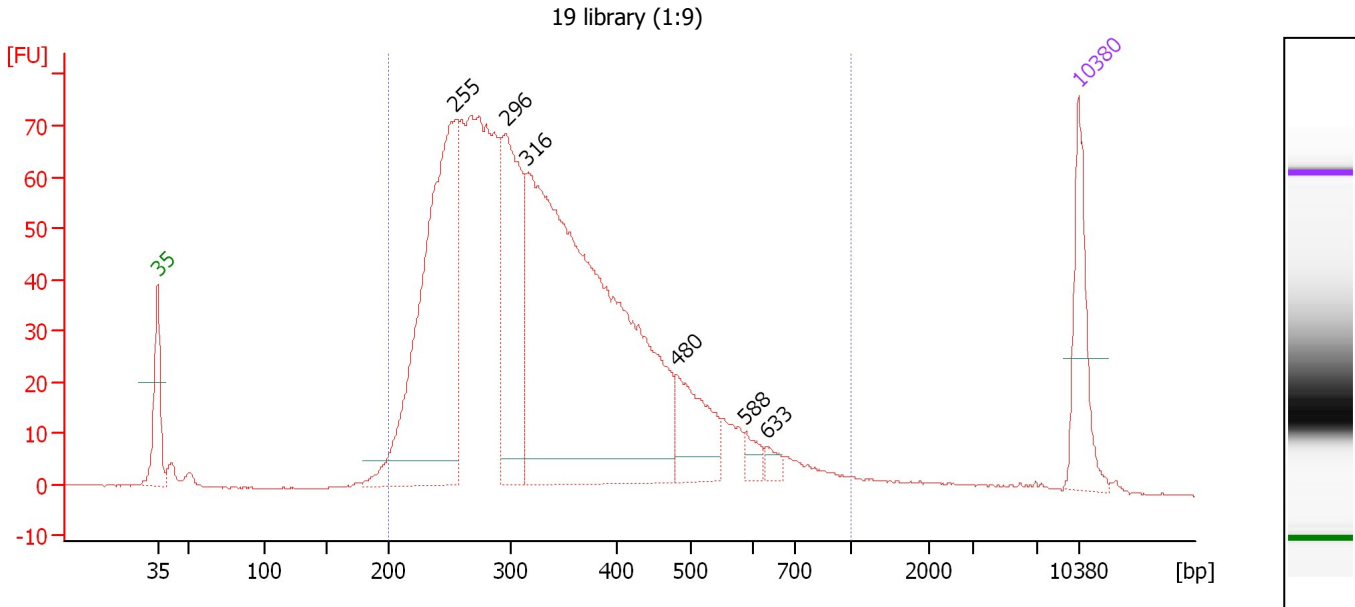
Region table for sample 10 : 18 library (1:6)

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	348	1,470.6	12,313.9	2,548.69	96	31.7

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Electropherogram Summary Continued ...



Overall Results for sample 11 : 19 library (1:9)

Number of peaks found: 6 Corr. Area 1: 1,569.4
 Noise: 0.1

Peak table for sample 11 : 19 library (1:9)

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	255	563.06	3,349.0		65.65
3	296	273.80	1,399.5		69.49
4	316	997.36	4,780.2		71.12
5	480	95.88	302.7		82.44
6	588	17.19	44.3		87.70
7	633	11.25	26.9		89.32
8	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 19 library (1:9)

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	348	1,569.4	12,370.9	2,545.15	96	33.0

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Gel Image

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-10-19\2016-10-19_002.xad

Created: 10/19/2016 11:41:49 AM
 Modified: 10/19/2016 12:22:17 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		10/19/2016 12:22:16 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\2016-10-19\2016-10-19_002.xad)		Instrument	Run		10/19/2016 11:41:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/19/2016 11:41:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/19/2016 11:41:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/19/2016 11:41:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/19/2016 11:41:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/19/2016 11:41:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/19/2016 11:41:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1