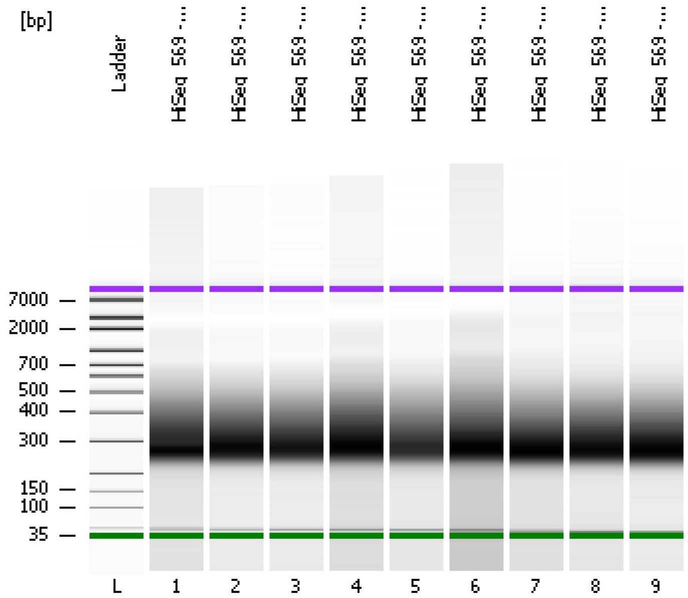
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...data\2016-08-25\2016-08-25_003_HiSeq569_Libraries_11-19.xad
Created: 8/25/2016 3:37:46 PM
Modified: 8/25/2016 4:26:13 PM

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

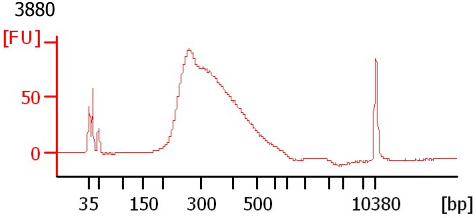
Chip Information:

Chip Lot #:

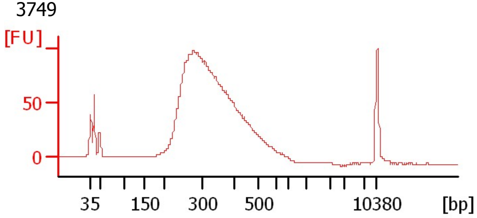
Reagent Kit Lot #:

Chip Comments:

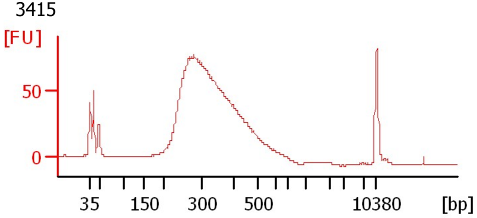
HiSeq_569 - 11 Library



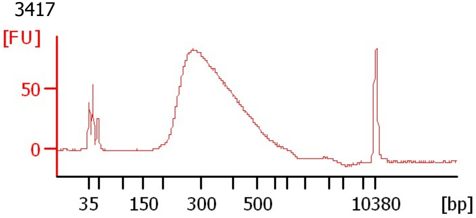
HiSeq_569 - 12 Library



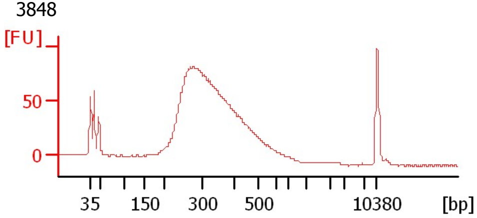
HiSeq_569 - 13 Library



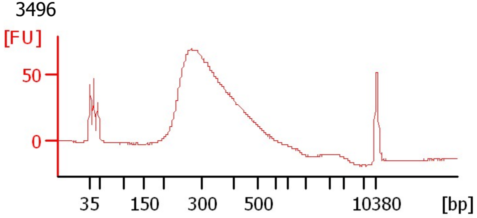
HiSeq_569 - 14 Library



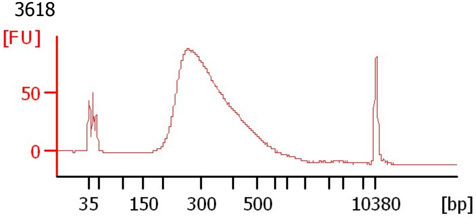
HiSeq_569 - 15 Library



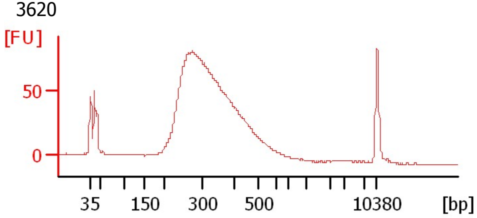
HiSeq_569 - 16 Library



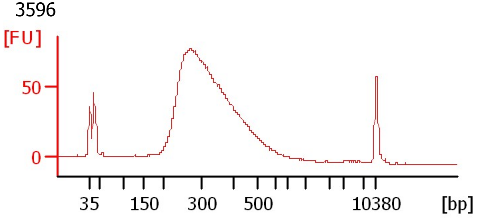
HiSeq_569 - 17 Library



HiSeq_569 - 18 Library



HiSeq_569 - 19 Library



Assay Class:	High Sensitivity DNA Assay	Created:	8/25/2016 3:37:46 PM
Data Path:	C:\...data\2016-08-25\2016-08-25_003_HiSeq569_Libraries_11-19.xad	Modified:	8/25/2016 4:26:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	**Sample Comment**	**Rest. Digest**	**Status**	**Observation**	**Result Label**	**Result Color**
HiSeq_569 - 11 Library	3880	☐	✓			
HiSeq_569 - 12 Library	3749	☐	✓			
HiSeq_569 - 13 Library	3415	☐	✓			
HiSeq_569 - 14 Library	3417	☐	✓			
HiSeq_569 - 15 Library	3848	☐	✓			
HiSeq_569 - 16 Library	3496	☐	✓			
HiSeq_569 - 17 Library	3618	☐	✓			
HiSeq_569 - 18 Library	3620	☐	✓			
HiSeq_569 - 19 Library	3596	☐	✓			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

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

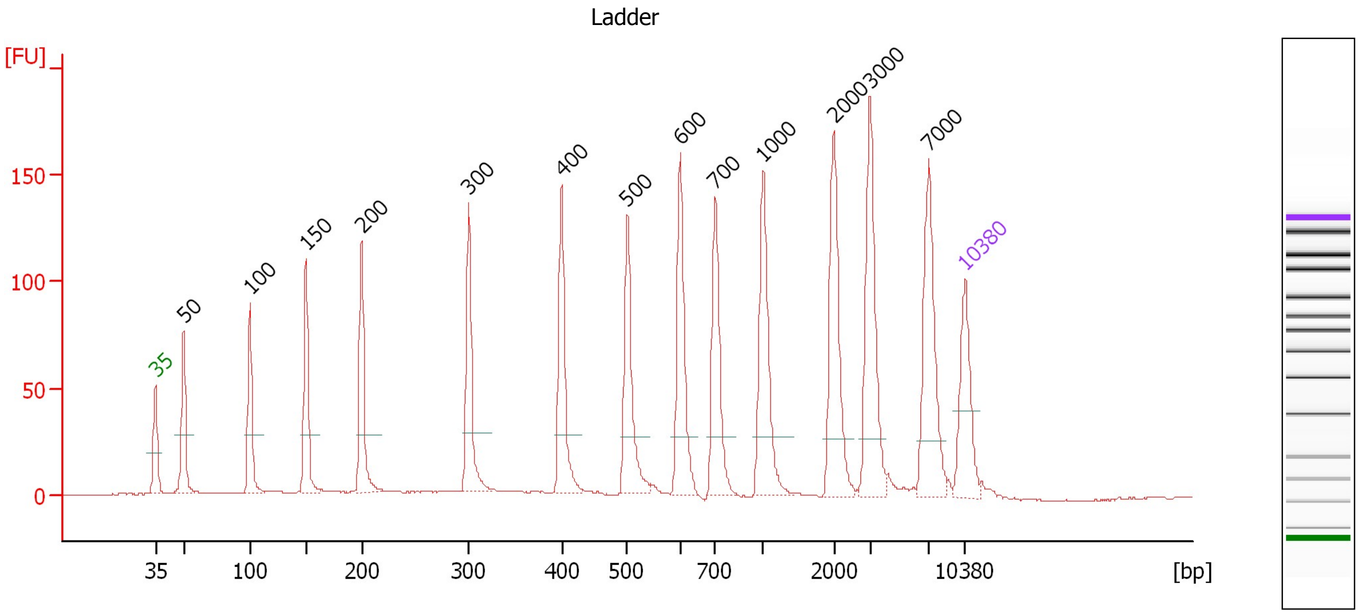
Filter Settings

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

Electropherogram Summary



Overall Results for Ladder

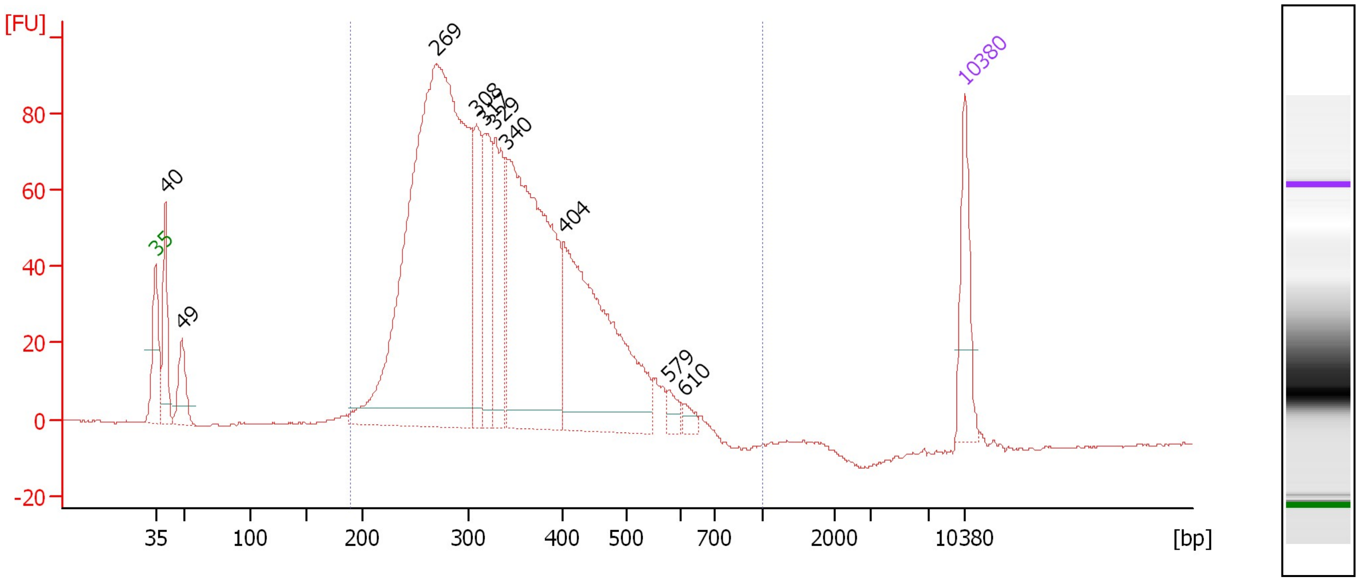
Noise: 0.2

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	L	50	150.00	4,545.5	Ladder Peak	45.44
3	L	100	150.00	2,272.7	Ladder Peak	51.18
4	L	150	150.00	1,515.2	Ladder Peak	56.00
5	L	200	150.00	1,136.4	Ladder Peak	60.83
6	L	300	150.00	757.6	Ladder Peak	70.08
7	L	400	150.00	568.2	Ladder Peak	78.10
8	L	500	150.00	454.5	Ladder Peak	83.79
9	L	600	150.00	378.8	Ladder Peak	88.36
10	L	700	150.00	324.7	Ladder Peak	91.41
11	L	1,000	150.00	227.3	Ladder Peak	95.53
12	L	2,000	150.00	113.6	Ladder Peak	101.62
13	L	3,000	150.00	75.8	Ladder Peak	104.77
14	L	7,000	150.00	32.5	Ladder Peak	109.85
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Electropherogram Summary Continued ...

HiSeq_569 - 11 Library [3880]



Overall Results for sample 1 : HiSeq_569 - 11 Library

Number of peaks found:	10	Corr. Area 1:	1,865.0
Noise:	0.3		

Peak table for sample 1 : HiSeq_569 - 11 Library

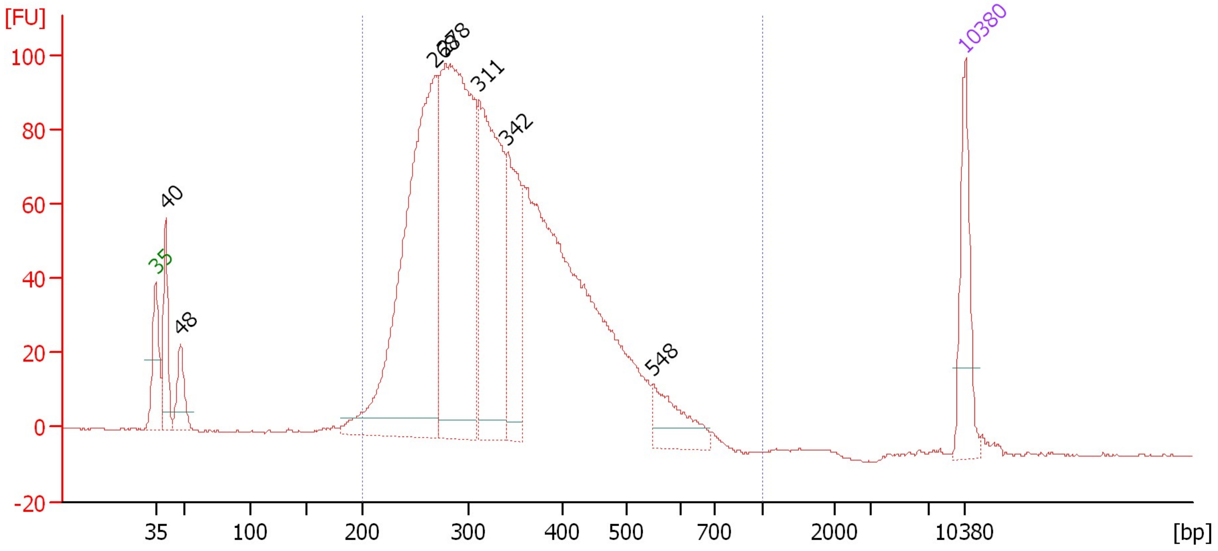
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		40	135.04	5,072.6		43.87
3		49	78.26	2,413.8		45.30
4		269	1,382.66	7,780.0		67.23
5		308	136.01	668.0		70.76
6		317	138.71	662.2		71.47
7		329	170.17	784.2		72.39
8		340	614.74	2,737.5		73.31
9		404	438.83	1,647.4		78.31
10		579	17.98	47.1		87.39
11		610	13.67	34.0		88.66
12	▶	10,380	75.00	10.9	Upper Marker	113.00

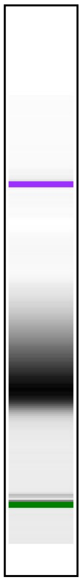
Region table for sample 1 : HiSeq_569 - 11 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
189	1,000	341	1,865.0	14,013.4	■	2,914.39	95	25.1

Electropherogram Summary Continued ...

HiSeq_569 - 12 Library [3749]





Overall Results for sample 2 : HiSeq_569 - 12 Library

Number of peaks found:	7	Corr. Area 1:	2,018.4
Noise:	0.3		

Peak table for sample 2 : HiSeq_569 - 12 Library

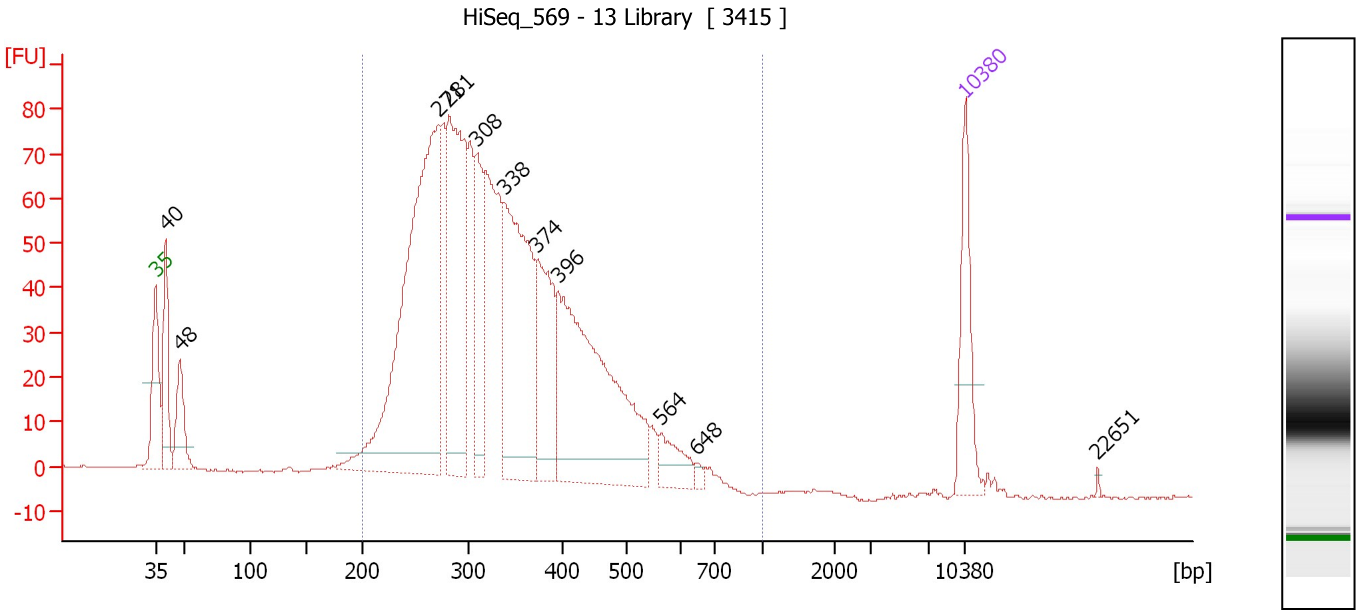
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		40	106.94	4,016.0		43.87
3		48	64.07	2,013.5		45.15
4		268	654.42	3,697.2		67.13
5		278	615.10	3,350.7		68.05
6		311	353.06	1,719.3		70.97
7		342	186.45	826.7		73.42
8		548	66.33	183.3		86.00
9	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 : HiSeq_569 - 12 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	340	2,018.4	12,082.2	🟦	2,509.70	94	25.2

Assay Class:	High Sensitivity DNA Assay	Created:	8/25/2016 3:37:46 PM
Data Path:	C:\...data\2016-08-25\2016-08-25_003_HiSeq569_Libraries_11-19.xad	Modified:	8/25/2016 4:26:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : **HiSeq_569 - 13 Library**

Number of peaks found:	11	Corr. Area 1:	1,600.9
Noise:	0.2		

Peak table for sample 3 : **HiSeq_569 - 13 Library**

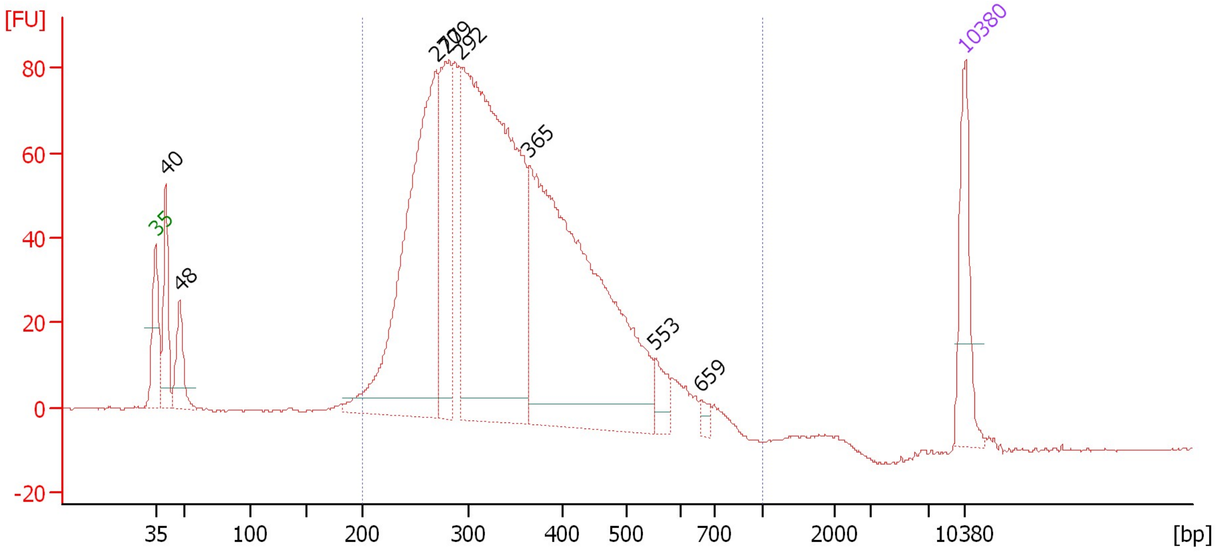
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		40	120.16	4,505.1		43.88
3		48	86.33	2,722.3		45.12
4		271	659.33	3,682.5		67.42
5		281	339.31	1,827.3		68.35
6		308	121.48	597.3		70.73
7		338	321.79	1,443.2		73.11
8		374	155.21	628.9		76.01
9		396	397.91	1,523.1		77.77
10		564	41.29	110.9		86.72
11		648	5.74	13.4		89.82
12	▶	10,380	75.00	10.9	Upper Marker	113.00
13		22,651	0.00	0.0		124.43

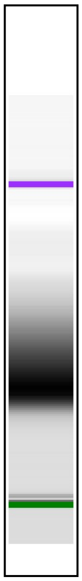
Region table for sample 3 : **HiSeq_569 - 13 Library**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	340	1,600.9	11,792.2	■	2,451.04	93	25.4

Electropherogram Summary Continued ...

HiSeq_569 - 14 Library [3417]





Overall Results for sample 4 : **HiSeq_569 - 14 Library**

Number of peaks found:	8	Corr. Area 1:	1,796.8
Noise:	0.2		

Peak table for sample 4 : **HiSeq_569 - 14 Library**

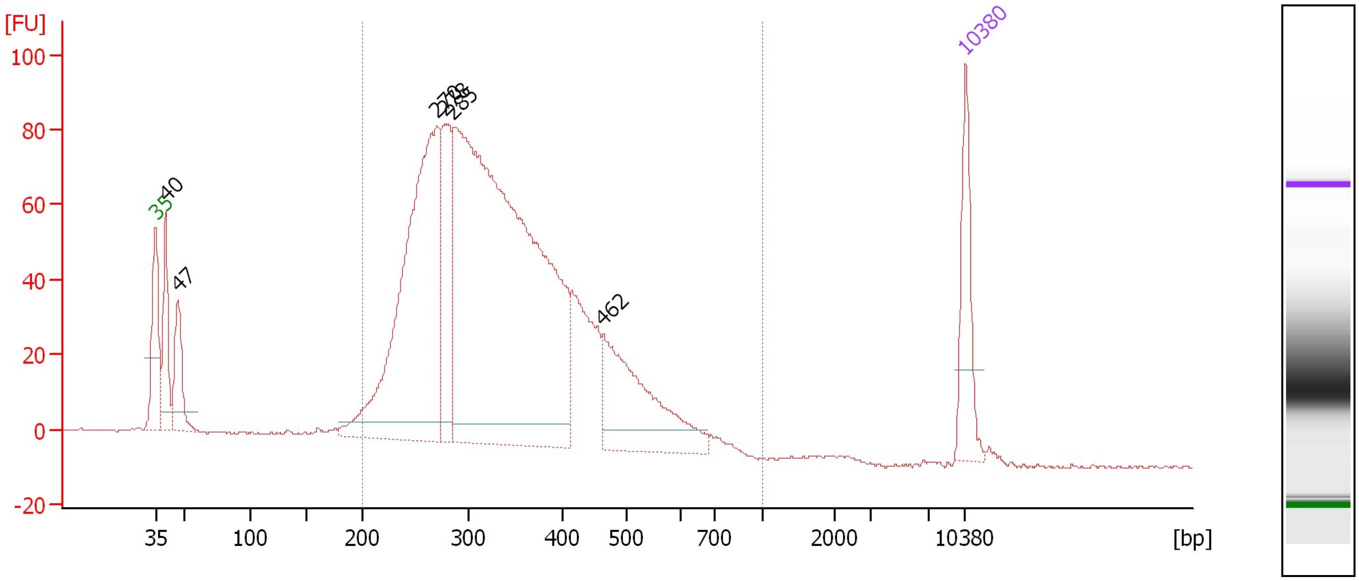
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		40	117.10	4,381.6		43.89
3		48	79.34	2,508.6		45.10
4		270	587.36	3,301.5		67.26
5		279	202.62	1,101.8		68.10
6		292	914.53	4,740.9		69.36
7		365	755.45	3,135.6		75.30
8		553	32.03	87.8		86.22
9		659	10.92	25.1		90.16
10	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : **HiSeq_569 - 14 Library**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	349	1,796.8	12,017.8	■	2,542.96	93	26.7

Electropherogram Summary Continued ...

HiSeq_569 - 15 Library [3848]



Overall Results for sample 5 : HiSeq_569 - 15 Library

Number of peaks found:	6	Corr. Area 1:	1,734.8
Noise:	0.2		

Peak table for sample 5 : HiSeq_569 - 15 Library

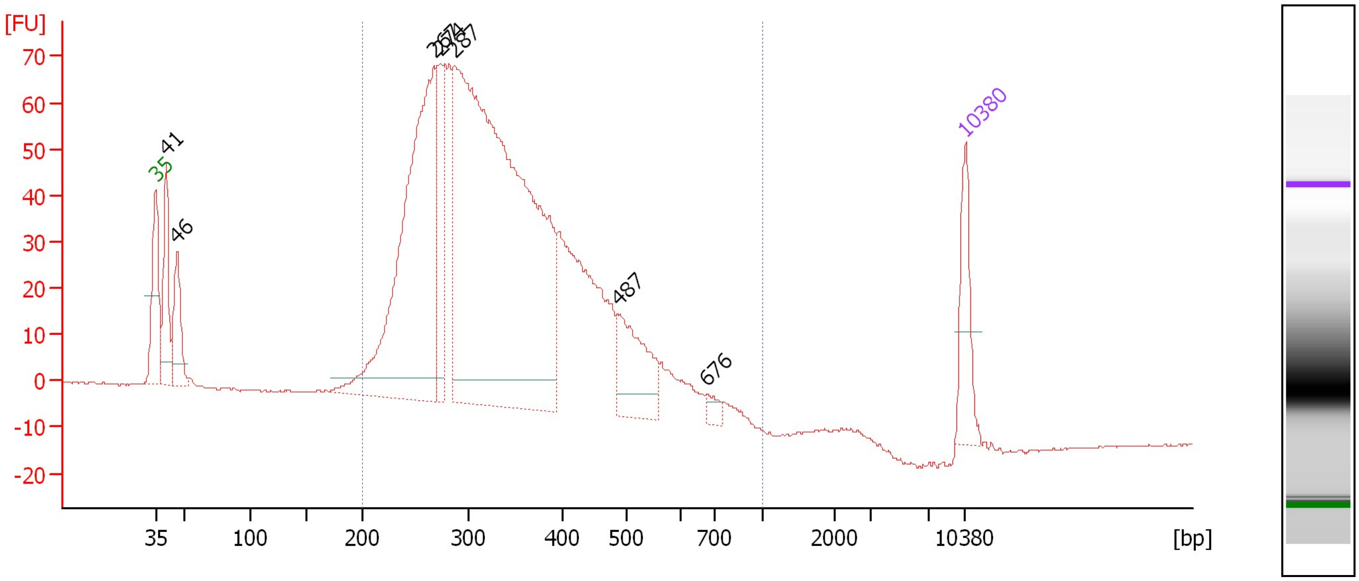
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		40	118.30	4,453.8		43.85
3		47	101.38	3,282.5		44.92
4		270	625.13	3,509.4		67.29
5		278	170.89	931.5		68.04
6		285	1,278.59	6,786.6		68.73
7		462	208.69	684.6		81.62
8	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : HiSeq_569 - 15 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	342	1,734.8	10,898.3	🟦	2,265.70	91	26.3

Electropherogram Summary Continued ...

HiSeq_569 - 16 Library [3496]



Overall Results for sample 6 : HiSeq_569 - 16 Library

Number of peaks found:	7	Corr. Area 1:	1,441.2
Noise:	0.2		

Peak table for sample 6 : HiSeq_569 - 16 Library

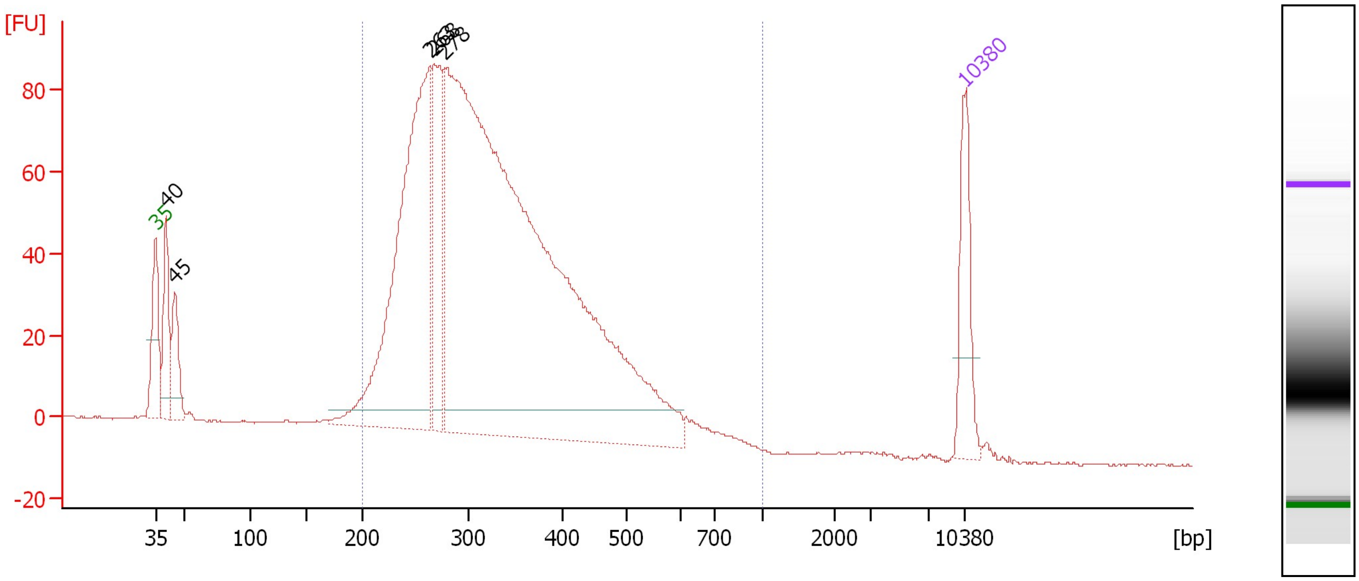
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		41	160.33	5,976.0		43.92
3		46	127.54	4,173.9		44.84
4		267	774.23	4,391.6		67.04
5		274	177.38	982.5		67.63
6		287	1,566.93	8,272.8		68.87
7		487	140.98	439.1		83.02
8		676	15.15	33.9		90.69
9	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : HiSeq_569 - 16 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co lor	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	341	1,441.2	14,477.9	■	3,006.68	92	26.4

Electropherogram Summary Continued ...

HiSeq_569 - 17 Library [3618]



Overall Results for sample 7 : **HiSeq_569 - 17 Library**

Number of peaks found:	5	Corr. Area 1:	1,743.2
Noise:	0.2		

Peak table for sample 7 : **HiSeq_569 - 17 Library**

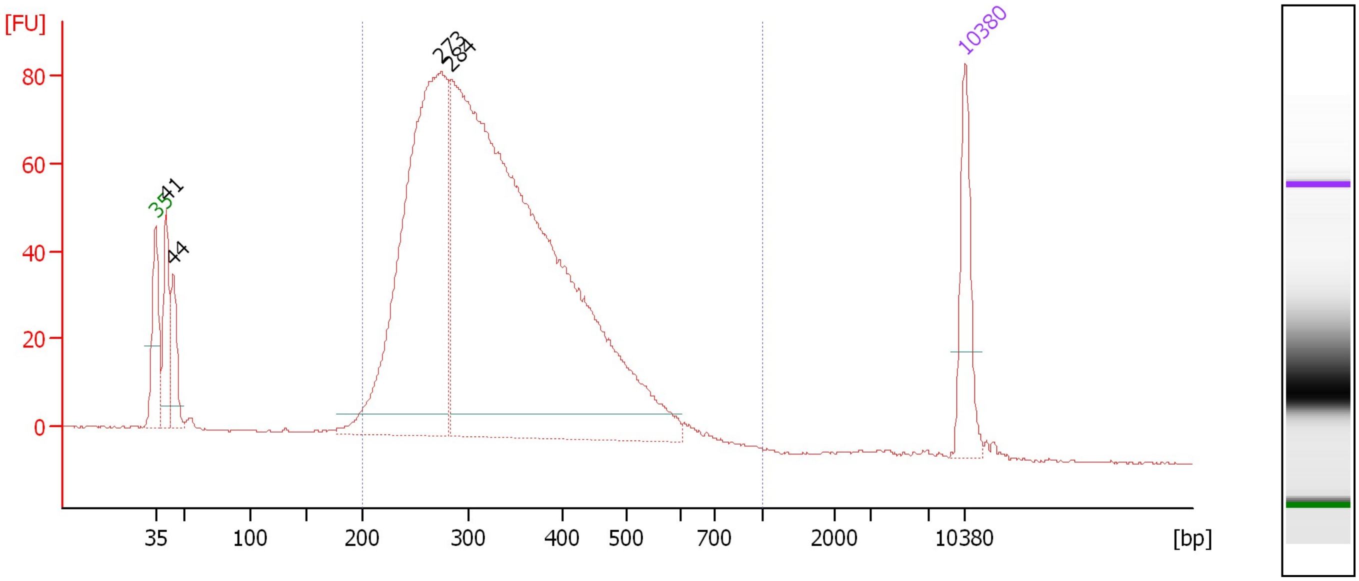
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		40	112.05	4,203.7		43.88
3		45	86.79	2,894.2		44.70
4		263	639.35	3,676.8		66.70
5		268	172.06	972.0		67.14
6		278	1,934.97	10,558.2		68.01
7	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : **HiSeq_569 - 17 Library**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	333	1,743.2	12,257.6	■	2,491.08	93	26.3

Electropherogram Summary Continued ...

HiSeq_569 - 18 Library [3620]



Overall Results for sample 8 : HiSeq_569 - 18 Library

Number of peaks found:	4	Corr. Area 1:	1,635.7
Noise:	0.2		

Peak table for sample 8 : HiSeq_569 - 18 Library

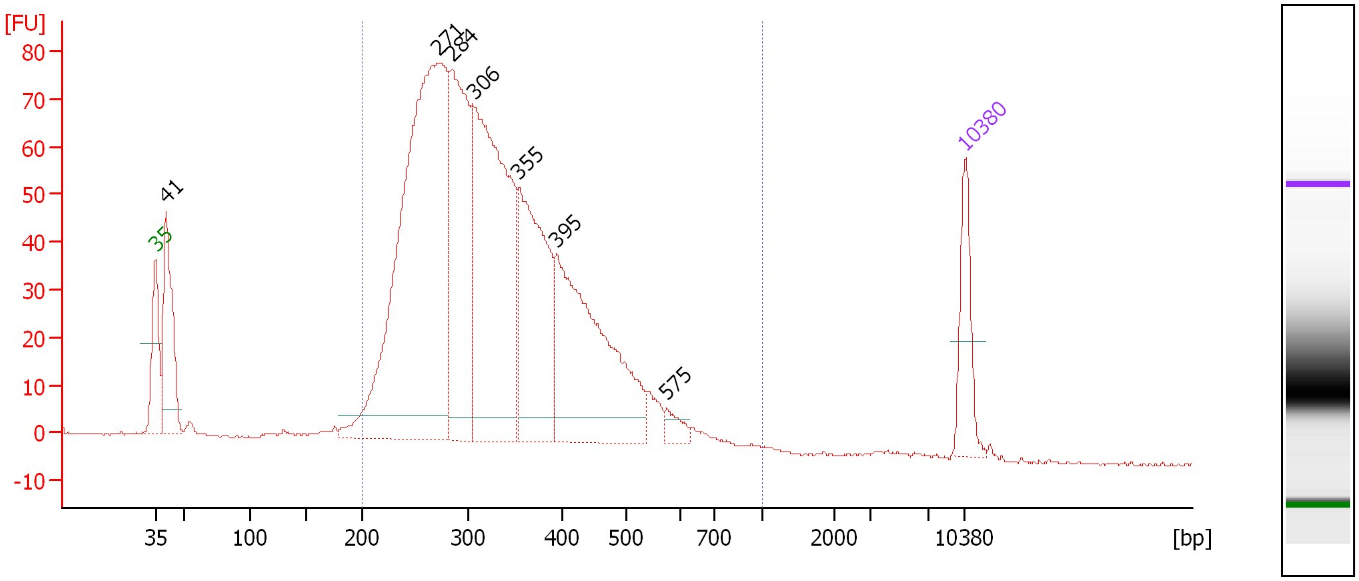
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		41	124.16	4,609.6		43.94
3		44	82.86	2,838.8		44.50
4		273	821.23	4,552.1		67.61
5		284	1,695.97	9,062.1		68.56
6	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : HiSeq_569 - 18 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	335	1,635.7	11,435.3	🟦	2,344.76	93	25.7

Electropherogram Summary Continued ...

HiSeq_569 - 19 Library [3596]



Overall Results for sample 9 : **HiSeq_569 - 19 Library**

Number of peaks found:	7	Corr. Area 1:	1,558.5
Noise:	0.2		

Peak table for sample 9 : **HiSeq_569 - 19 Library**

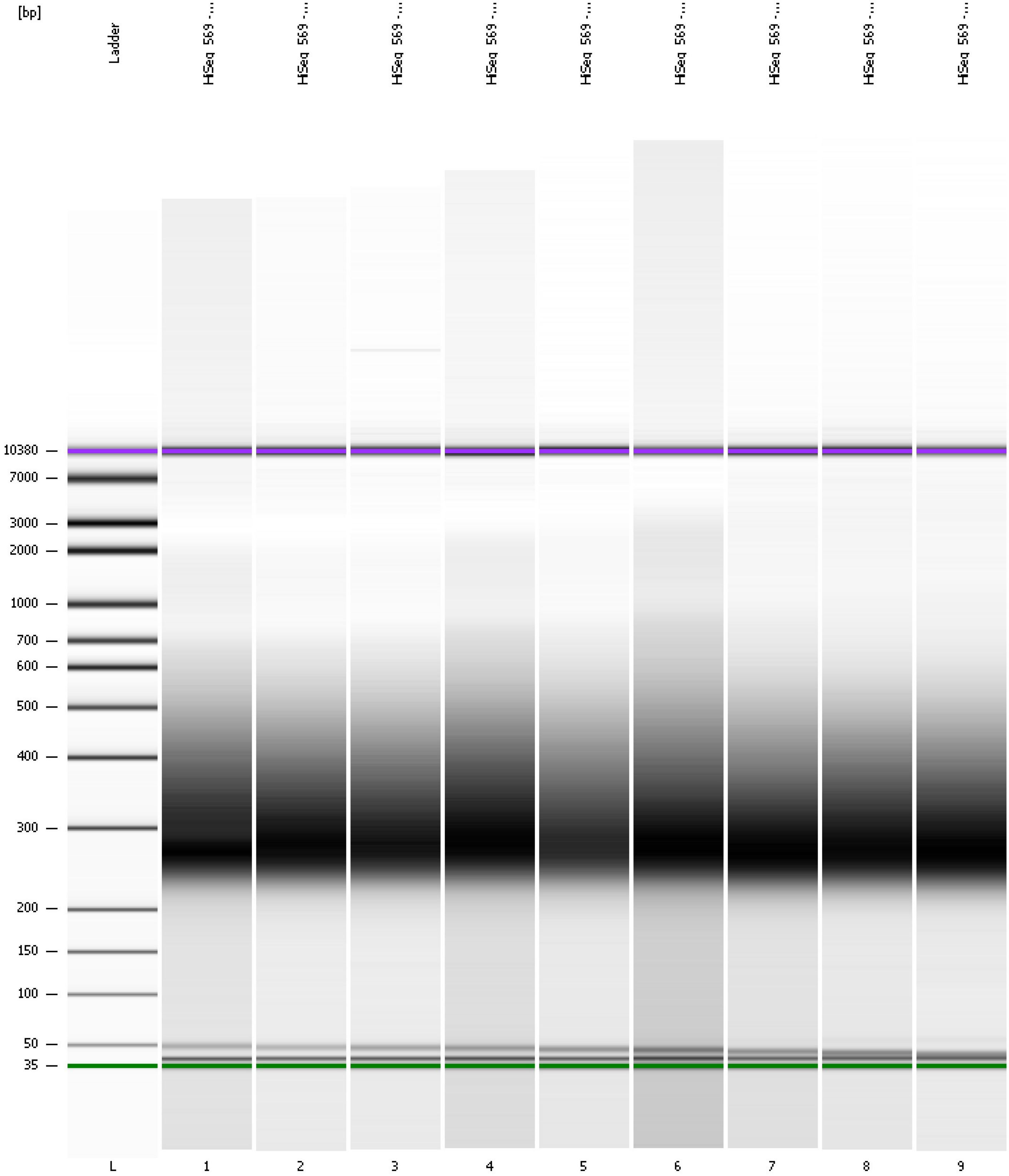
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		41	246.32	9,130.6		43.96
3		271	1,139.80	6,361.4		67.44
4		284	429.84	2,291.3		68.62
5		306	648.90	3,209.4		70.58
6		355	370.11	1,581.3		74.46
7		395	441.70	1,696.3		77.66
8		575	22.40	59.0		87.21
9	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : **HiSeq_569 - 19 Library**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	336	1,558.5	15,385.6	🟦	3,144.06	92	27.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...data\2016-08-25\2016-08-25_003_HiSeq569_Libraries_11-19.xad
Created: 8/25/2016 3:37:46 PM
Modified: 8/25/2016 4:26:13 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...data\2016-08-25\2016-08-25_003_HiSeq569_Libraries_11-19.xad
Created: 8/25/2016 3:37:46 PM
Modified: 8/25/2016 4:26:13 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		8/25/2016 4:19:04 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\2016-08-25\2016-08-25_003.xad)		Instrument	Run		8/25/2016 3:37:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/25/2016 3:37:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/25/2016 3:37:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/25/2016 3:37:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/25/2016 3:37:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/25/2016 3:37:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/25/2016 3:37:52 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1