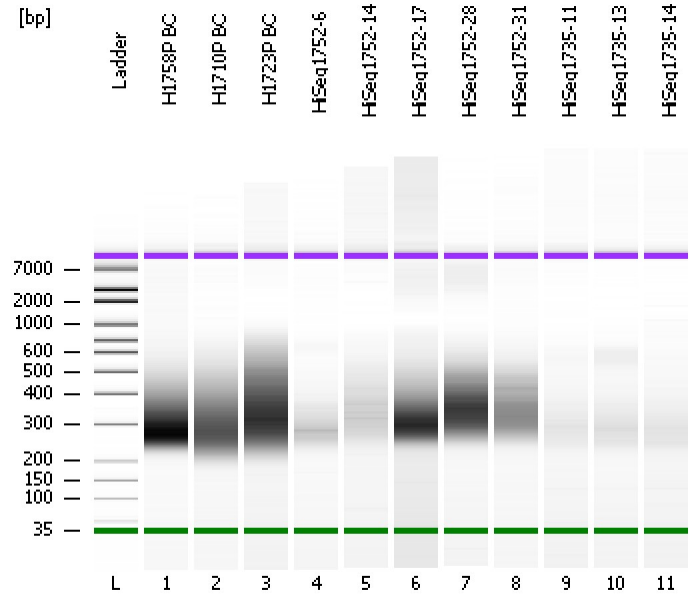
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

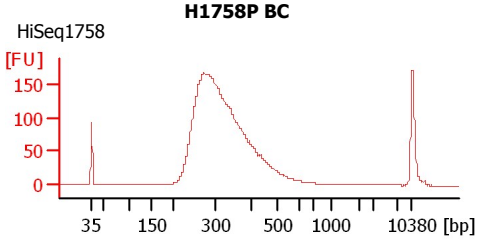
Assay Information:

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

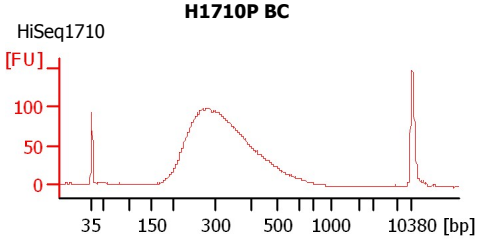
Chip Information:

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

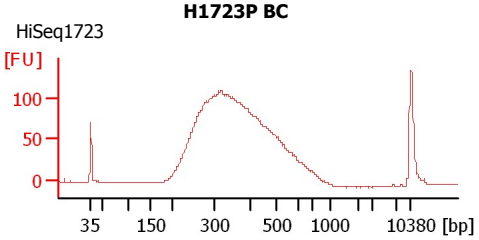
H1758P BC



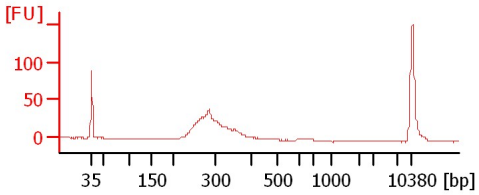
H1710P BC



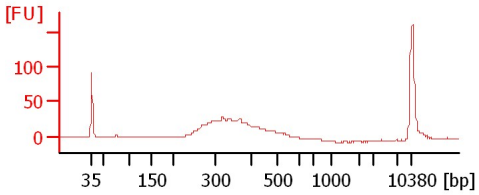
H1723P BC



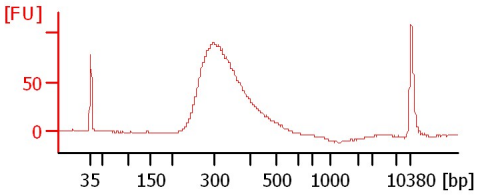
HiSeq1752-6



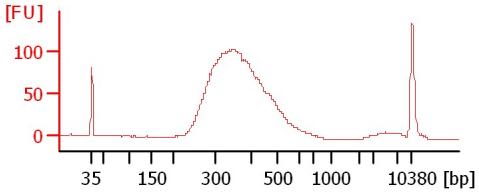
HiSeq1752-14



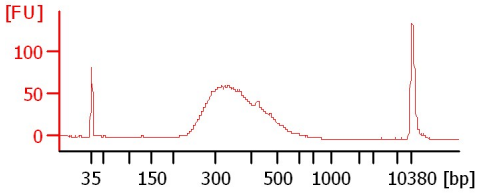
HiSeq1752-17



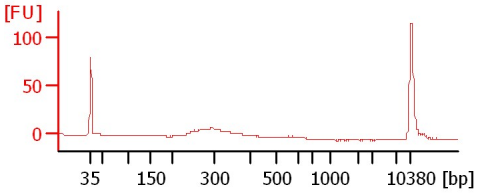
HiSeq1752-28



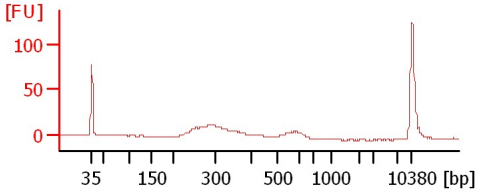
HiSeq1752-31



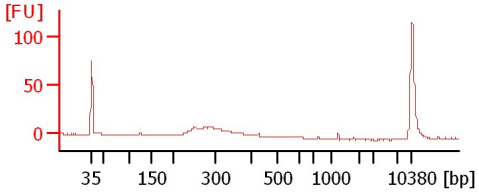
HiSeq1735-11



HiSeq1735-13



HiSeq1735-14



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H1758P BC	HiSeq1758	☐	✔			
H1710P BC	HiSeq1710	☐	✔			
H1723P BC	HiSeq1723	☐	✔			
HiSeq1752-6		☐	✔			
HiSeq1752-14		☐	✔			
HiSeq1752-17		☐	✔			
HiSeq1752-28		☐	✔			
HiSeq1752-31		☐	✔			
HiSeq1735-11		☐	✔			
HiSeq1735-13		☐	✔			
HiSeq1735-14		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

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

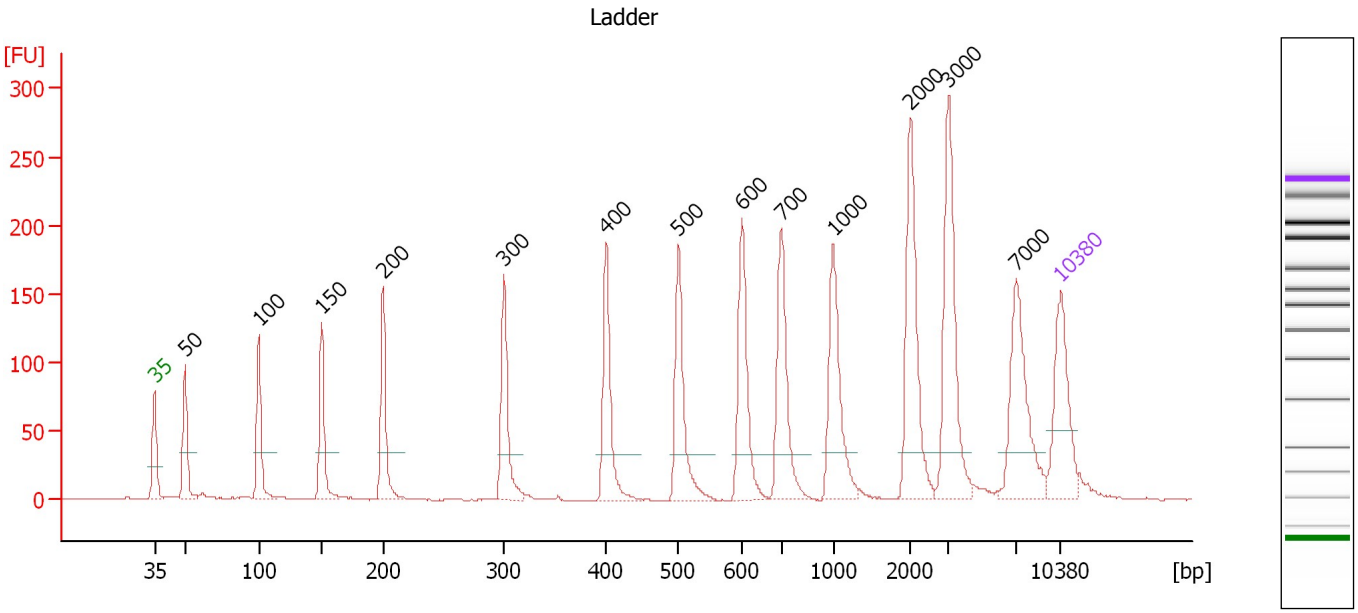
Ladder

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\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

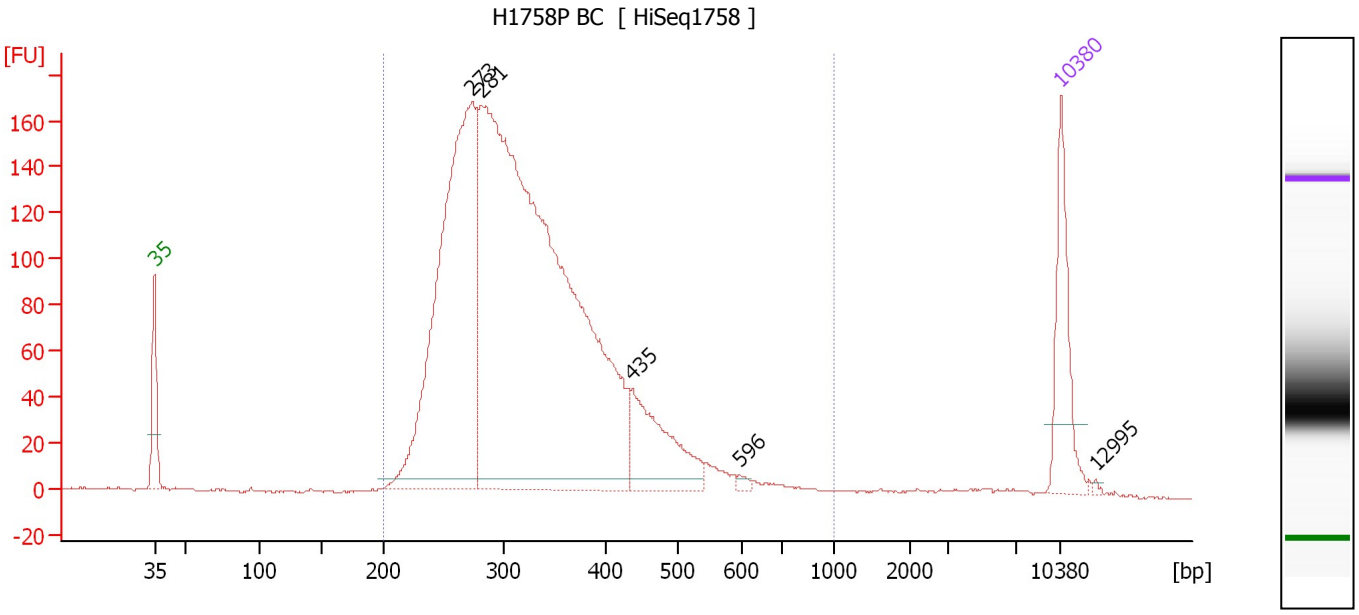
Peak table for Ladder

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	51.04
4		150	150.00	1,515.2	Ladder Peak	55.89
5		200	150.00	1,136.4	Ladder Peak	60.64
6		300	150.00	757.6	Ladder Peak	69.98
7		400	150.00	568.2	Ladder Peak	77.89
8		500	150.00	454.5	Ladder Peak	83.49
9		600	150.00	378.8	Ladder Peak	88.38
10		700	150.00	324.7	Ladder Peak	91.40
11		1,000	150.00	227.3	Ladder Peak	95.40
12		2,000	150.00	113.6	Ladder Peak	101.40
13		3,000	150.00	75.8	Ladder Peak	104.33
14		7,000	150.00	32.5	Ladder Peak	109.53
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : H1758P BC

Number of peaks found:	5	Corr. Area 1:	3,021.8
Noise:	0.4		

Peak table for sample 1 : H1758P 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	273	661.40	3,664.7		67.50
3	281	1,436.99	7,741.5		68.23
4	435	124.29	432.7		79.86
5	596	4.54	11.6		88.18
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,995	0.00	0.0		115.68

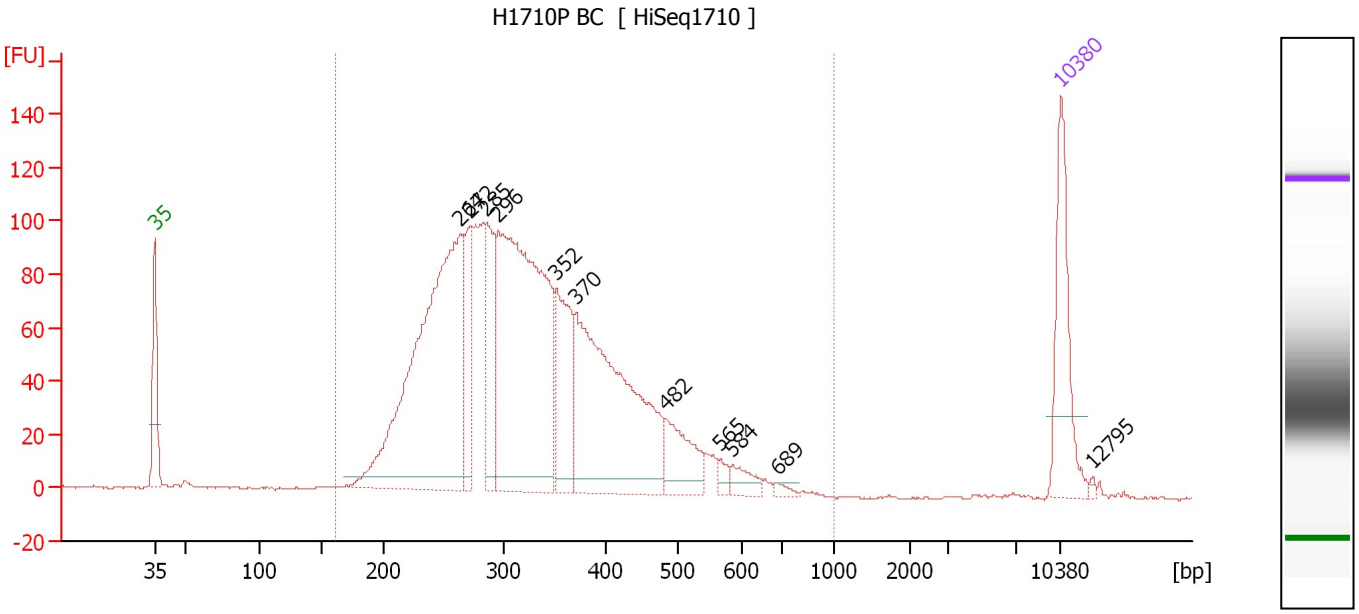
Region table for sample 1 : H1758P BC

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	332	2,161.44	3,021.8	10,568.0	98	25.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : H1710P BC

Number of peaks found:	11	Corr. Area 1:	2,372.6
Noise:	0.4		

Peak table for sample 2 : H1710P 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	264	513.78	2,948.0		66.62
3	272	73.57	409.9		67.36
4	285	104.37	555.4		68.55
5	296	470.42	2,411.9		69.56
6	352	105.47	454.6		74.06
7	370	319.00	1,306.0		75.52
8	482	60.36	189.6		82.50
9	565	8.75	23.5		86.67
10	584	16.74	43.4		87.59
11	689	4.91	10.8		91.07
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,795	0.00	0.0		115.48

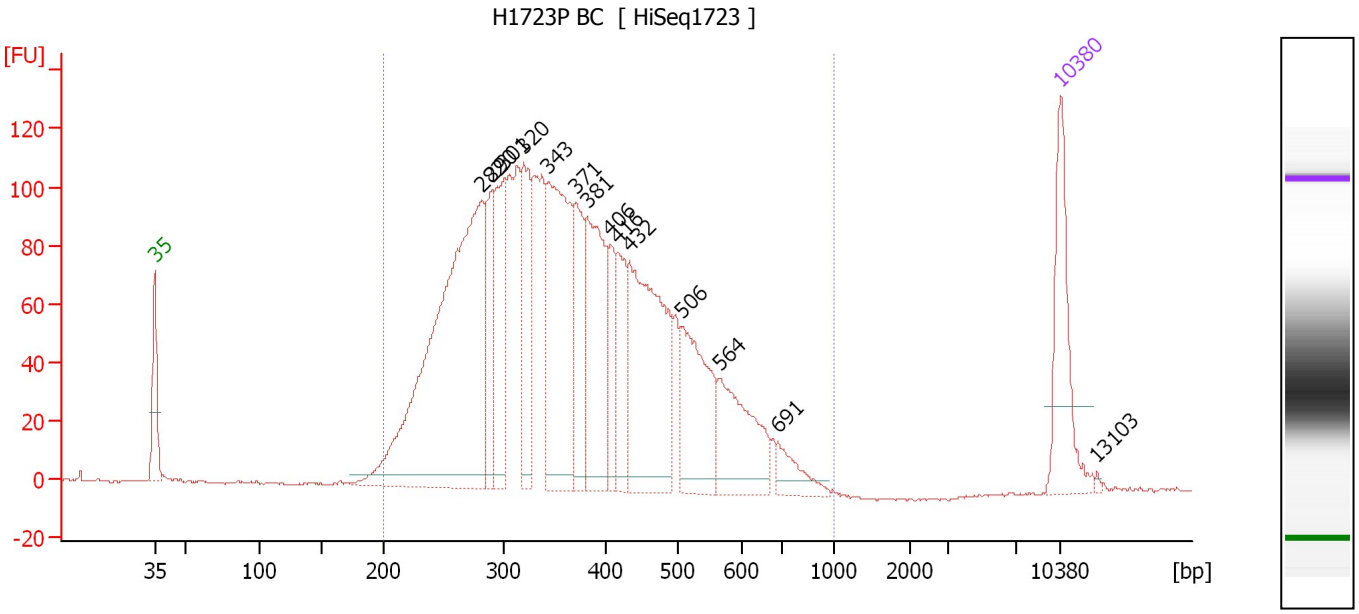
Region table for sample 2 : H1710P BC

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
161	1,000	333	1,820.03	2,372.6	9,092.7	98	28.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : H1723P BC

Number of peaks found:	14	Corr. Area 1:	2,815.7
Noise:	0.3		

Peak table for sample 3 : H1723P 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	282	559.02	3,001.1		68.32
3	290	76.54	400.3		69.02
4	301	112.78	568.1		70.04
5	320	107.06	507.5		71.53
6	343	235.45	1,039.6		73.39
7	371	83.46	341.0		75.58
8	381	155.58	618.0		76.42
9	406	52.26	195.0		78.23
10	416	60.88	221.7		78.79
11	432	228.83	802.7		79.68
12	506	122.51	367.0		83.77
13	564	101.37	272.4		86.61
14	691	29.61	64.9		91.13
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,103	0.00	0.0		115.79

Region table for sample 3 : H1723P BC

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	376	2,187.40	2,815.7	9,810.7	100	28.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

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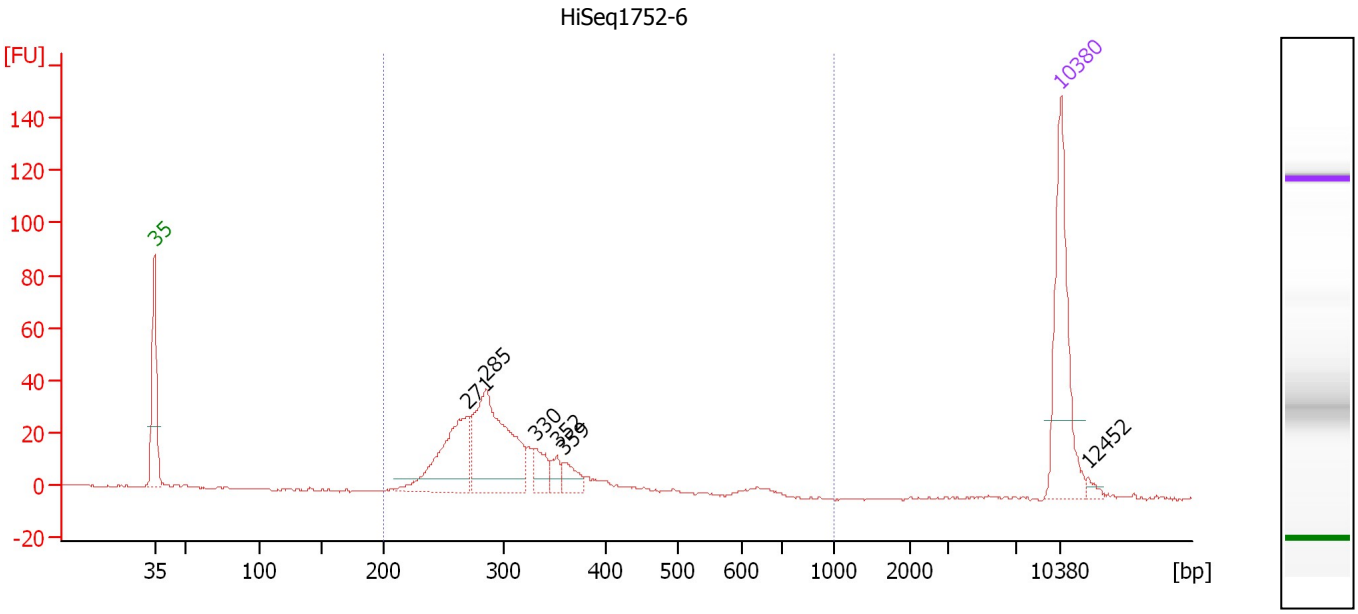


Overall Results for sample 4 : HiSeq1752-6

Number of peaks found:	6	Corr. Area 1:	396.1
Noise:	0.3		

Peak table for sample 4 : HiSeq1752-6

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		271	90.96	509.3		67.23
3		285	137.43	730.0		68.60
4		330	20.47	93.9		72.38
5		352	10.43	44.9		74.08
6		359	16.01	67.6		74.65
7	▶	10,380	75.00	10.9	Upper Marker	113.00
8		12,452	0.00	0.0		115.13

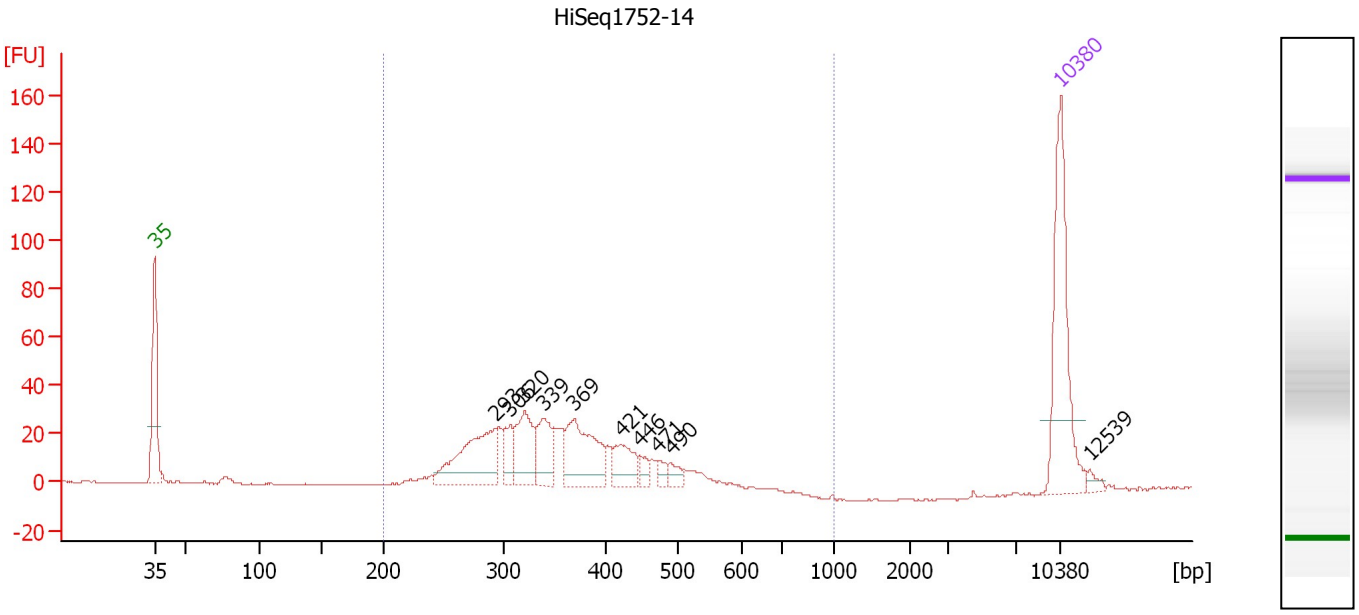
Region table for sample 4 : HiSeq1752-6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Total	Size distribution in CV [%]
200	1,000	308	297.60	396.1	1,525.1	96	21.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq1752-14

Number of peaks found:	10	Corr. Area 1:	499.3
Noise:	0.3		

Peak table for sample 5 : HiSeq1752-14

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	293	76.52	395.6		69.33
3	306	19.77	97.7		70.49
4	320	42.01	199.0		71.55
5	339	34.83	155.5		73.09
6	369	60.77	249.4		75.45
7	421	24.80	89.3		79.06
8	446	7.80	26.5		80.46
9	471	6.52	21.0		81.85
10	490	7.52	23.3		82.91
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,539	0.00	0.0		115.21

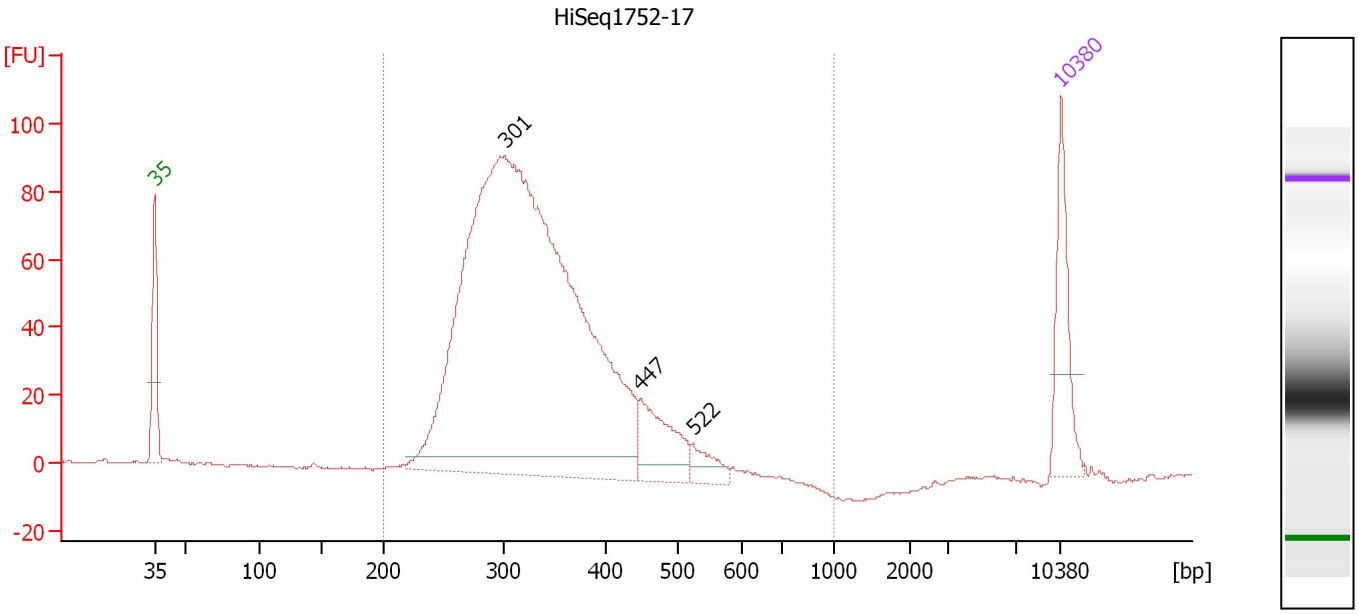
Region table for sample 5 : HiSeq1752-14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	355	329.07	499.3	1,477.8	97	19.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq1752-17

Number of peaks found:	3	Corr. Area 1:	1,371.5
Noise:	0.4		

Peak table for sample 6 : HiSeq1752-17

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	301	1,659.22	8,356.4		70.04
3	447	93.91	318.1		80.54
4	522	30.75	89.2		84.58
5	10,380	75.00	10.9	Upper Marker	113.00

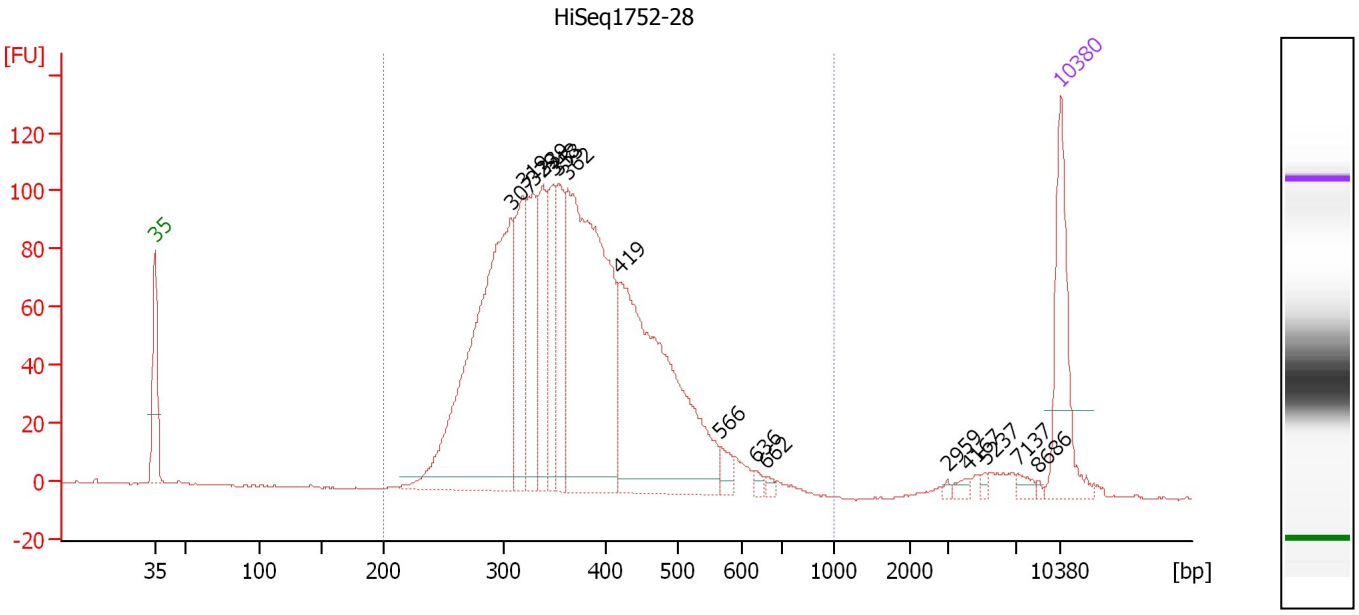
Region table for sample 6 : HiSeq1752-17

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	333	1,572.85	1,371.5	7,452.9	99	18.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq1752-28

Number of peaks found:	16	Corr. Area 1:	2,046.8
Noise:	0.3		

Peak table for sample 7 : HiSeq1752-28

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	307	435.14	2,145.7		70.55
3	319	108.24	514.8		71.45
4	329	102.73	472.8		72.29
5	339	90.78	406.2		73.04
6	348	83.77	364.6		73.78
7	353	82.80	355.3		74.18
8	362	398.07	1,663.8		74.92
9	419	355.30	1,285.3		78.94
10	566	12.82	34.3		86.74
11	636	5.45	13.0		89.47
12	662	4.34	9.9		90.26
13	2,959	2.08	1.1		104.21
14	4,167	5.02	1.8		105.85
15	5,237	3.30	1.0		107.24
16	7,137	5.90	1.3		109.67
17	8,686	1.73	0.3		111.26
18	10,380	75.00	10.9	Upper Marker	113.00

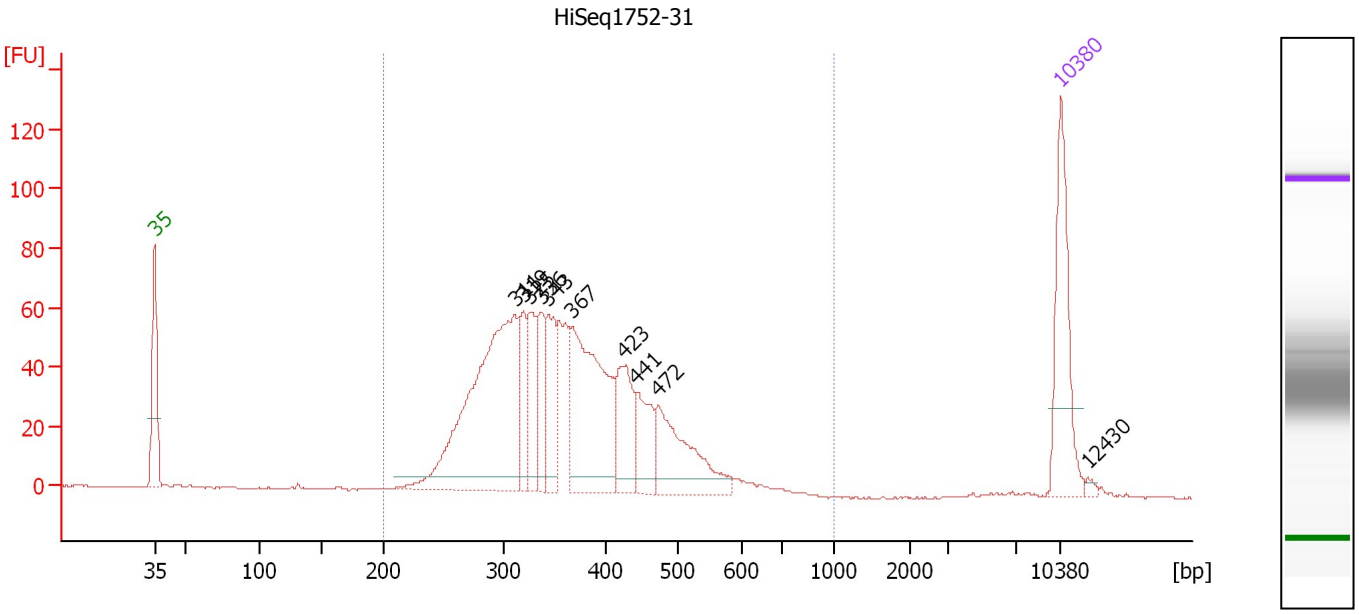
Region table for sample 7 : HiSeq1752-28

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	375	1,681.83	2,046.8	7,223.7	97	22.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq1752-31

Number of peaks found:	10	Corr. Area 1:	1,161.9
Noise:	0.3		

Peak table for sample 8 : HiSeq1752-31

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	311	321.04	1,564.6		70.84
3	319	49.23	233.7		71.49
4	325	56.32	262.2		71.99
5	336	47.55	214.3		72.84
6	343	63.52	280.4		73.39
7	367	181.60	749.3		75.30
8	423	64.43	230.6		79.20
9	441	47.75	163.9		80.20
10	472	93.63	300.7		81.91
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,430	0.00	0.0		115.10

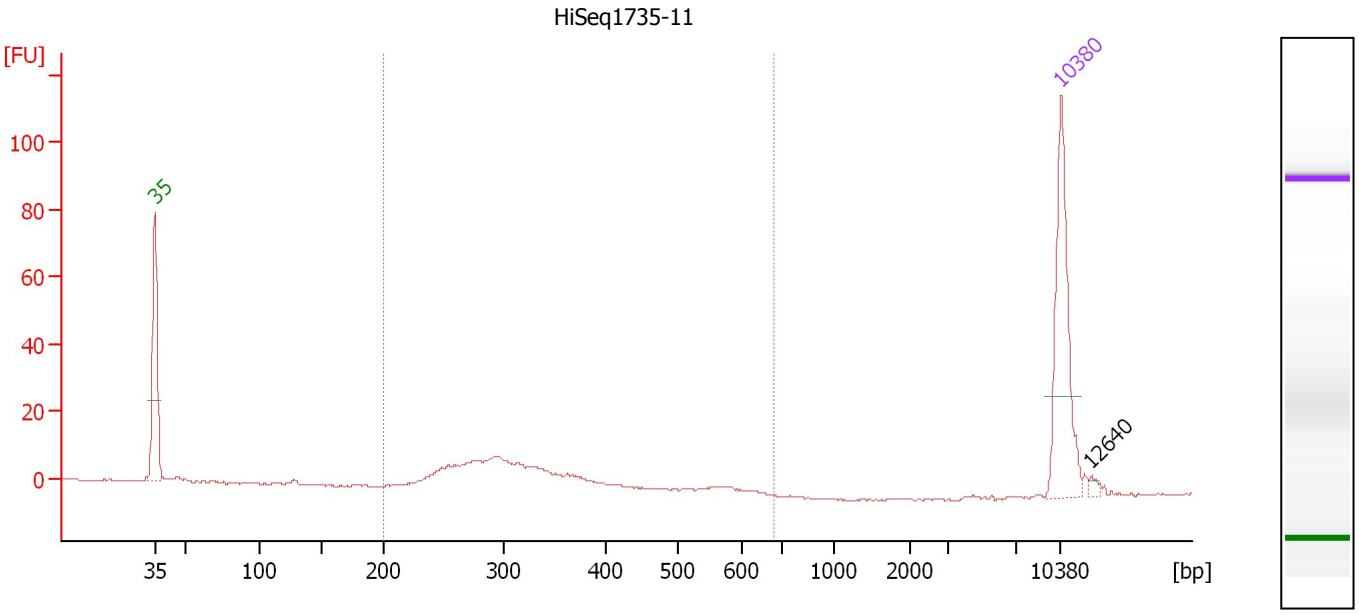
Region table for sample 8 : HiSeq1752-31

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	367	998.33	1,161.9	4,374.4	98	21.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HiSeq1735-11

Number of peaks found:	1	Corr. Area 1:	94.4
Noise:	0.2		

Peak table for sample 9 : HiSeq1735-11

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	10,380	75.00	10.9	Upper Marker	113.00
3	12,640	0.00	0.0		115.32

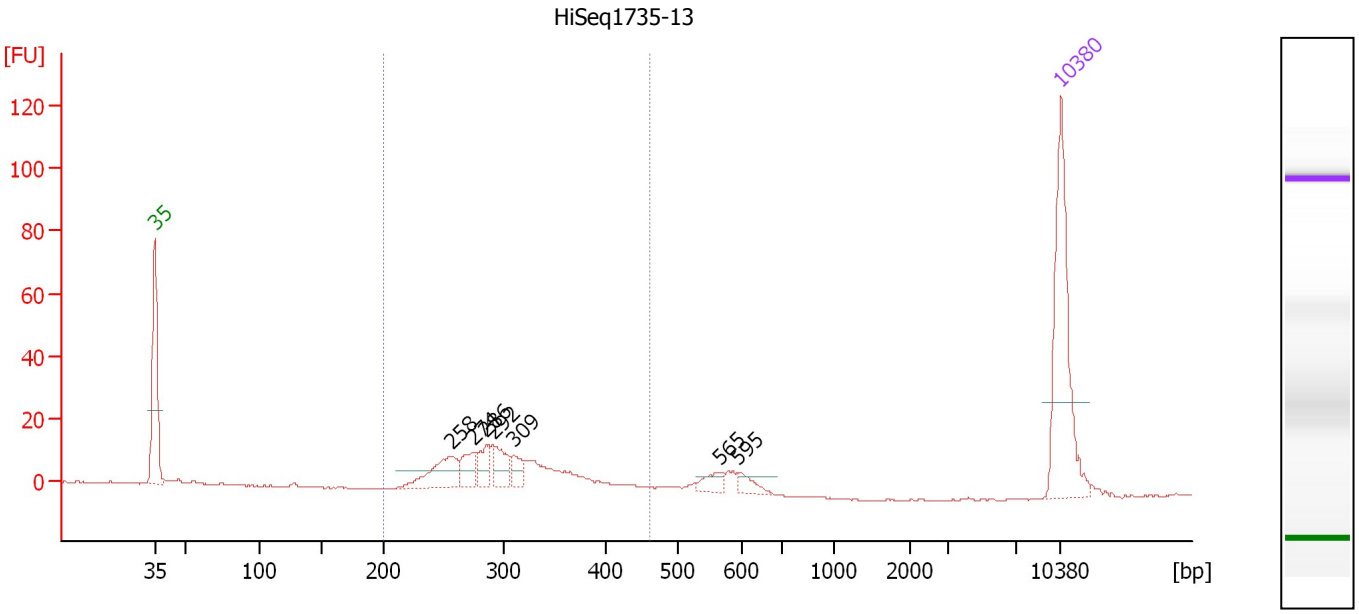
Region table for sample 9 : HiSeq1735-11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	680	301	99.01	94.4	508.1	92	13.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HiSeq1735-13

Number of peaks found:	7	Corr. Area 1:	161.5
Noise:	0.2		

Peak table for sample 10 : HiSeq1735-13

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	258	35.99	211.8		66.01
3	274	18.49	102.2		67.58
4	286	15.19	80.6		68.64
5	292	20.35	105.7		69.19
6	309	11.95	58.6		70.71
7	565	9.09	24.4		86.66
8	595	8.02	20.4		88.12
9	10,380	75.00	10.9	Upper Marker	113.00

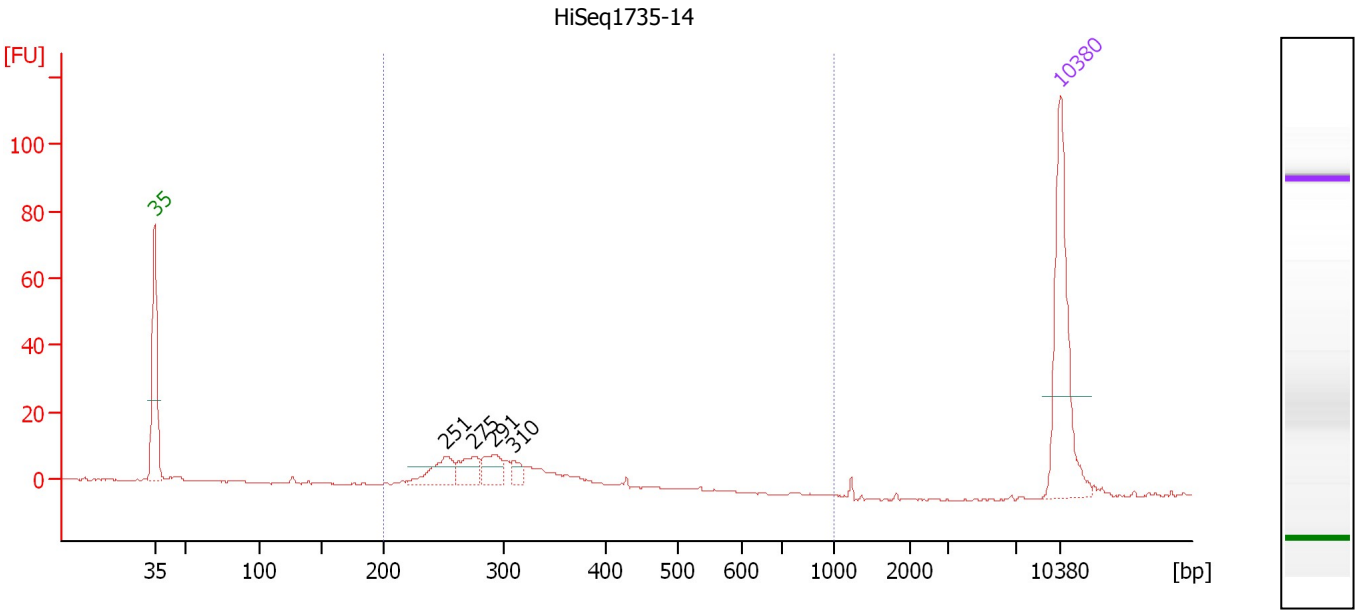
Region table for sample 10 : HiSeq1735-13

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	460	302	147.24	161.5	757.3	81	14.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HiSeq1735-14

Number of peaks found:	4	Corr. Area 1:	110.8
Noise:	0.2		

Peak table for sample 11 : HiSeq1735-14

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	27.16	163.8		65.42
3	275	21.64	119.4		67.60
4	291	20.82	108.3		69.17
5	310	9.06	44.2		70.80
6	10,380	75.00	10.9	Upper Marker	113.00

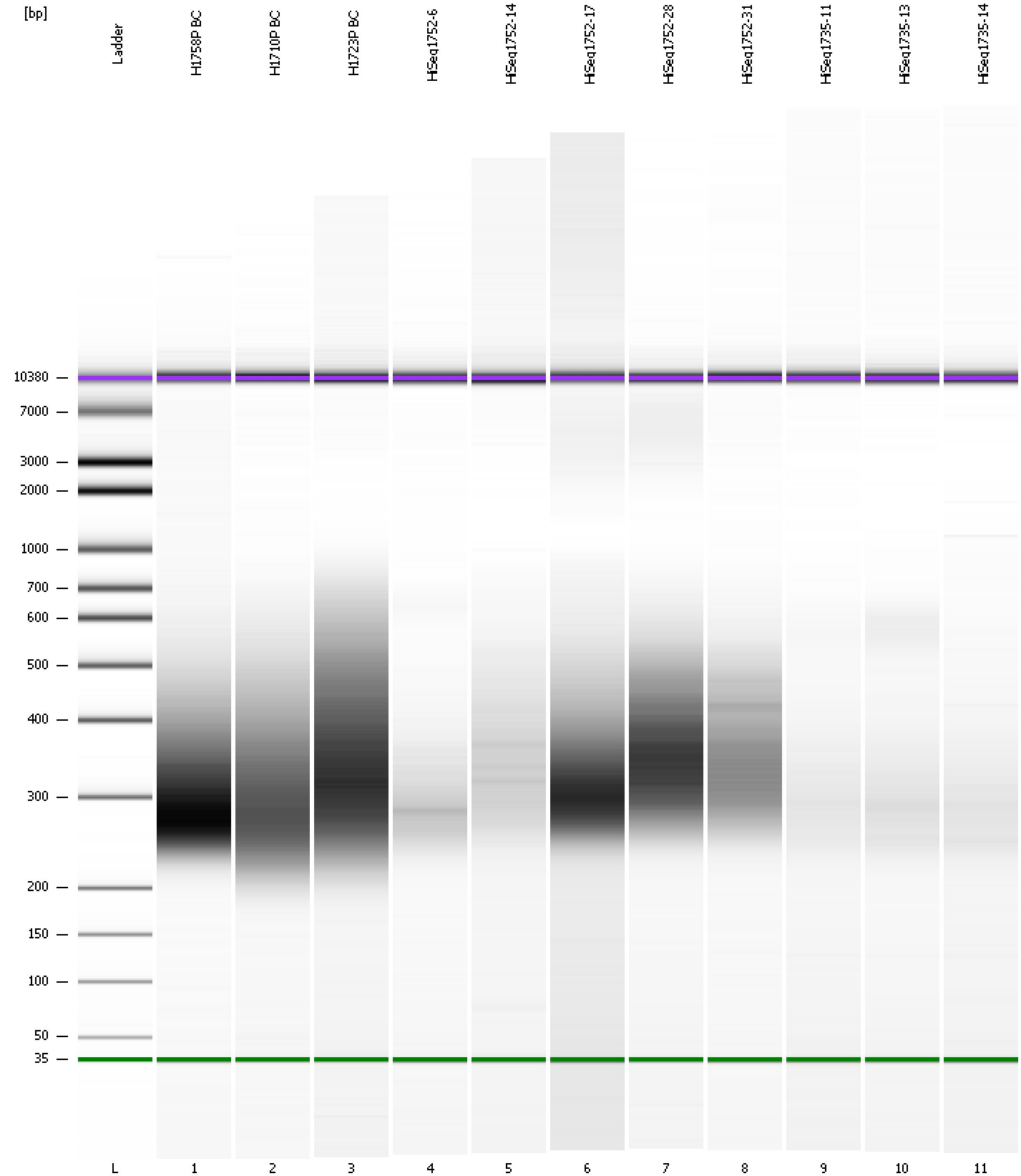
Region table for sample 11 : HiSeq1735-14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	295	110.45	110.8	579.4	92	14.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad

Created: 4/18/2019 10:33:58 AM
Modified: 4/18/2019 11:15:15 AM

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		4/18/2019 11:15:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-18\2019-04-18_001.xad)		Instrument	Run		4/18/2019 10:34:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/18/2019 10:34:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/18/2019 10:34:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/18/2019 10:34:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/18/2019 10:34:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/18/2019 10:34:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/18/2019 10:34:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1