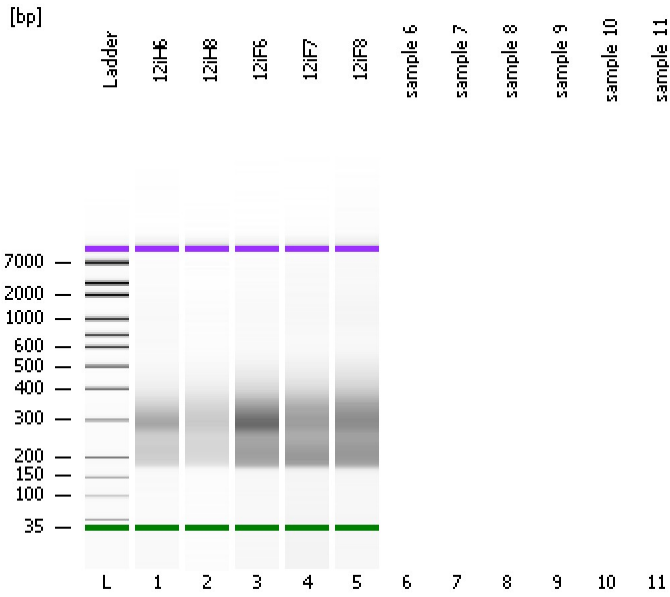


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
Modified: 11/5/2019 11:51:09 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

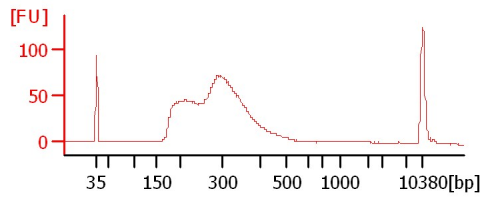
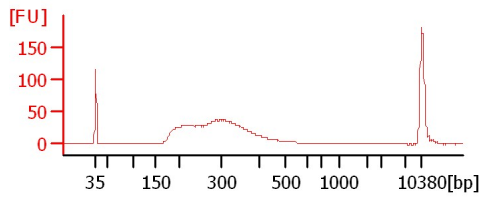
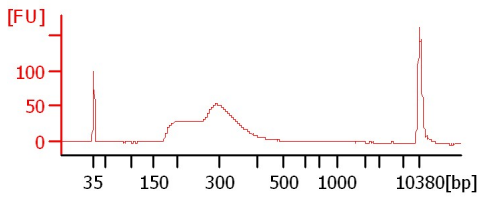
Chip Information:

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

12iH6

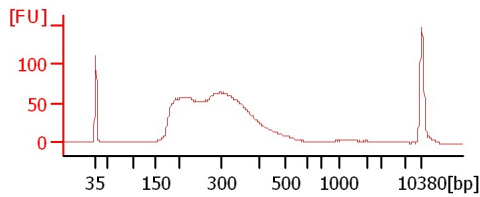
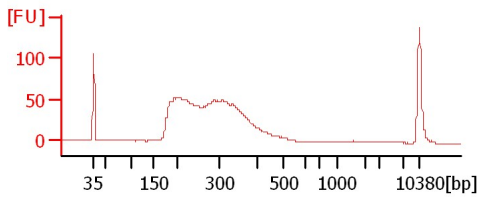
12iH8

12iF6



12iF7

12iF8



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
Modified: 11/5/2019 11:51:09 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
12iH6		<input type="checkbox"/>	✓			
12iH8		<input type="checkbox"/>	✓			
12iF6		<input type="checkbox"/>	✓			
12iF7		<input type="checkbox"/>	✓			
12iF8		<input type="checkbox"/>	✓			
sample 6		<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\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
Modified: 11/5/2019 11:51:09 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

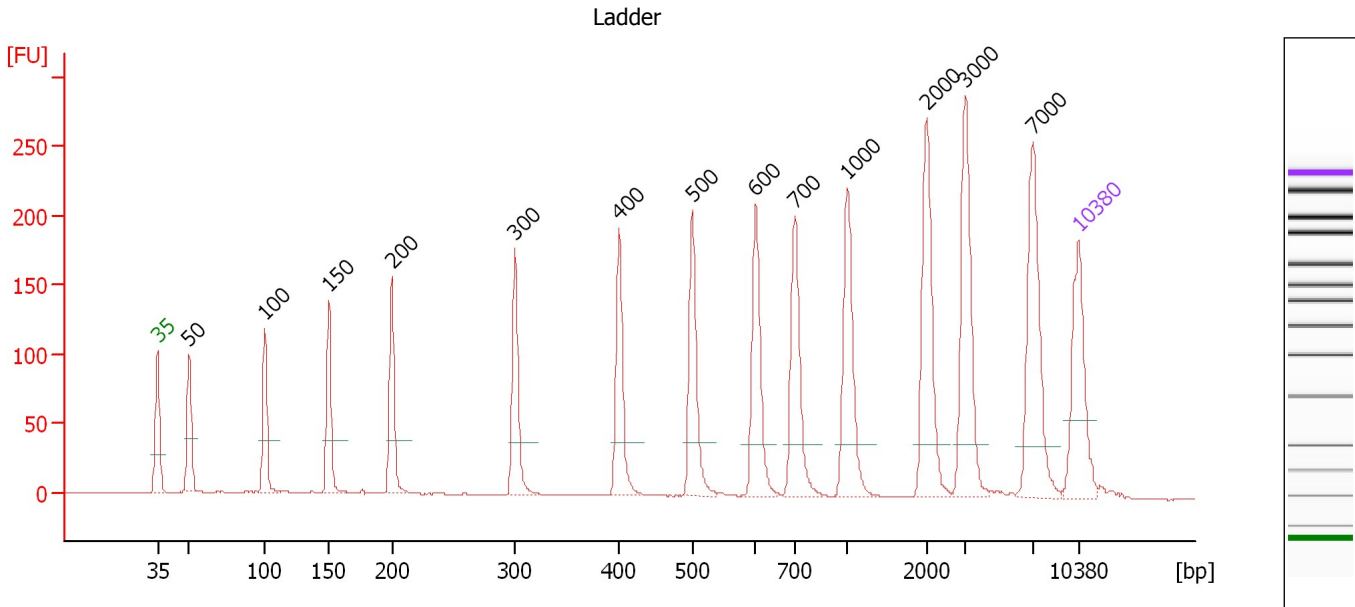
Ladder

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\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
 Modified: 11/5/2019 11:51:09 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

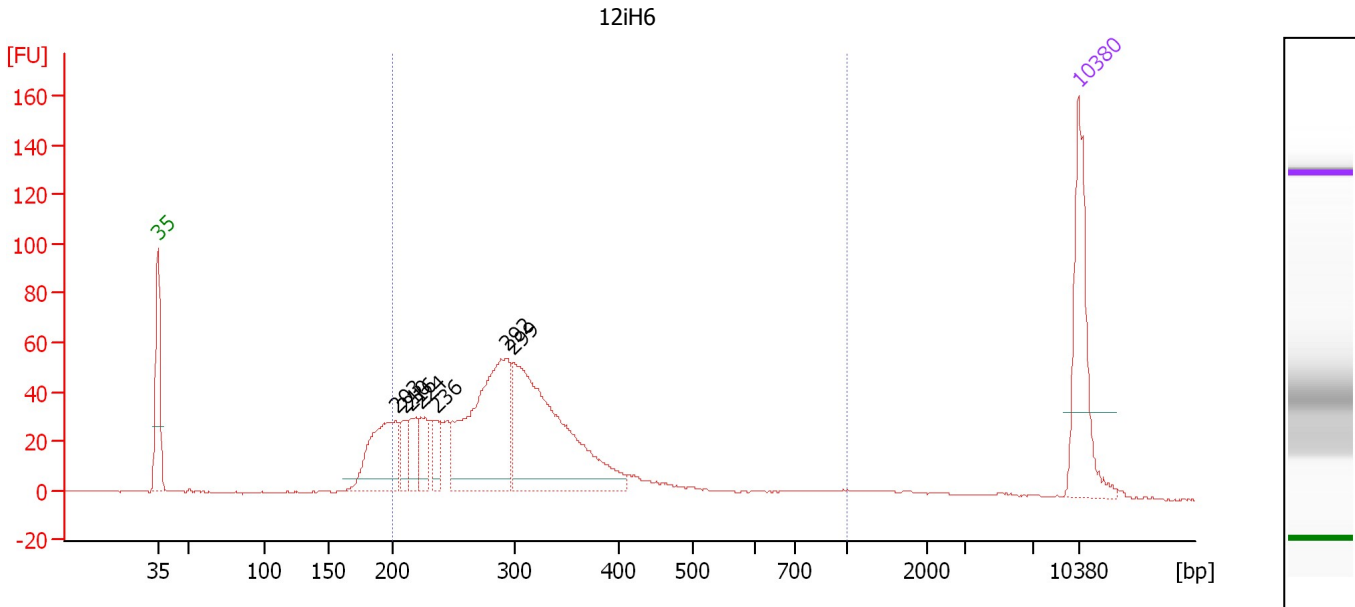
Peak table for Ladder

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	45.40
3	100	150.00	2,272.7	Ladder Peak	51.13
4	150	150.00	1,515.2	Ladder Peak	56.03
5	200	150.00	1,136.4	Ladder Peak	60.79
6	300	150.00	757.6	Ladder Peak	70.17
7	400	150.00	568.2	Ladder Peak	78.07
8	500	150.00	454.5	Ladder Peak	83.66
9	600	150.00	378.8	Ladder Peak	88.47
10	700	150.00	324.7	Ladder Peak	91.42
11	1,000	150.00	227.3	Ladder Peak	95.44
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.41
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\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
 Modified: 11/5/2019 11:51:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12iH6

Number of peaks found: 7 Corr. Area 1: 919.4
 Noise: 0.3

Peak table for sample 1 : 12iH6

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	203	102.32	762.0		61.11
3	210	24.32	175.5		61.73
4	216	32.10	225.1		62.29
5	224	29.64	200.4		63.05
6	236	22.57	145.1		64.13
7	292	208.52	1,080.3		69.46
8	299	253.79	1,288.2		70.03
9	10,380	75.00	10.9	Upper Marker	113.00

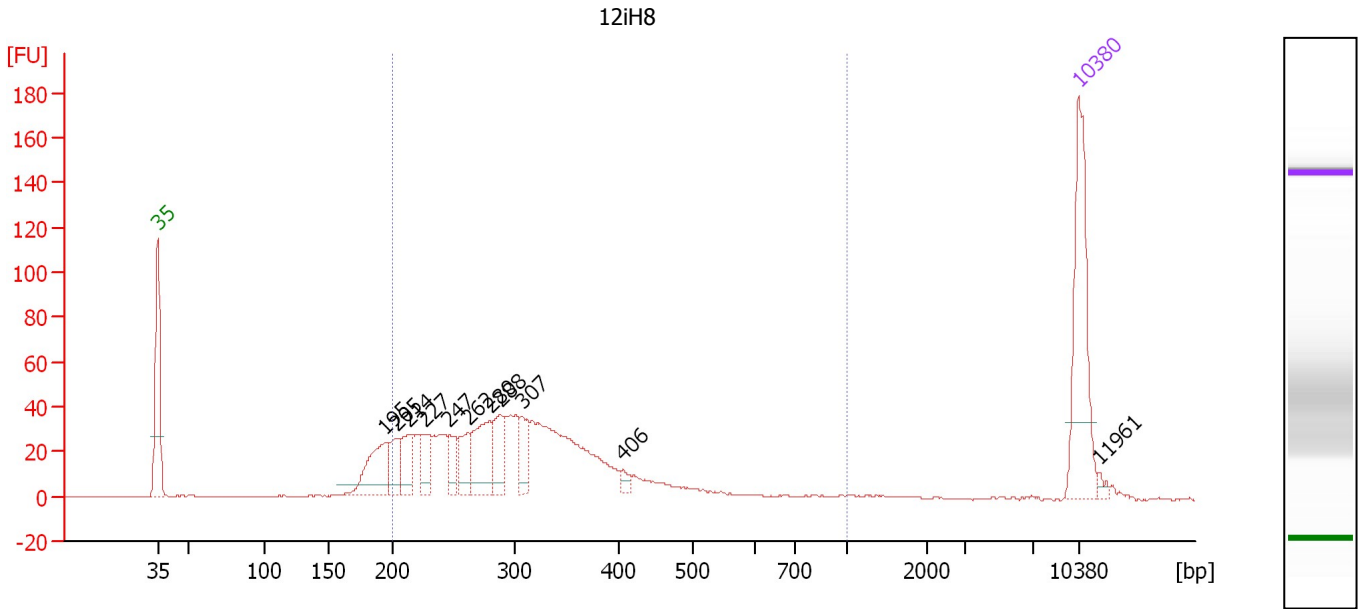
Region table for sample 1 : 12iH6

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	310	683.10	919.4	3,601.8	87	31.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
 Modified: 11/5/2019 11:51:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 12iH8

Number of peaks found: 11 Corr. Area 1: 806.6
 Noise: 0.2

Peak table for sample 2 : 12iH8

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	195	55.64	432.4		60.31
3	205	25.14	186.2		61.22
4	214	33.78	239.0		62.12
5	227	24.15	161.3		63.31
6	247	19.50	119.7		65.17
7	262	23.23	134.3		66.60
8	280	50.89	275.6		68.27
9	288	34.60	181.7		69.08
10	307	24.72	122.1		70.70
11	406	5.75	21.5		78.43
12	10,380	75.00	10.9	Upper Marker	113.00
13	11,961	0.00	0.0		114.62

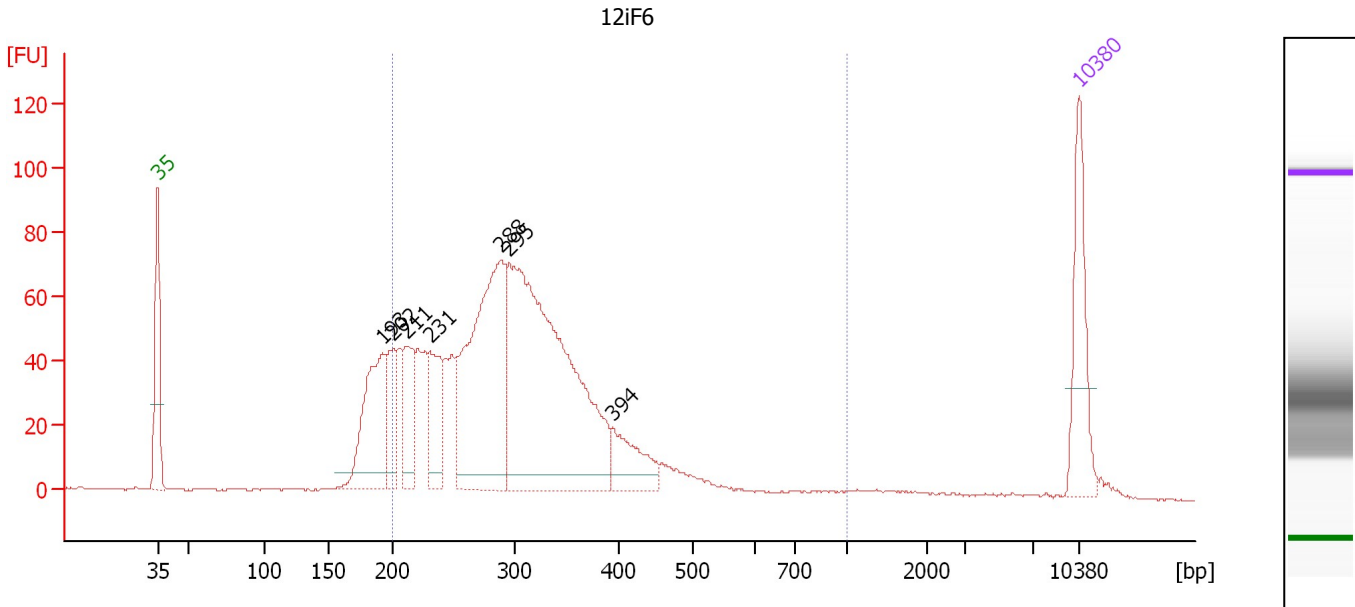
Region table for sample 2 : 12iH8

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	314	537.72	806.6	2,814.9	87	29.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
 Modified: 11/5/2019 11:51:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 12iF6

Number of peaks found: 7 Corr. Area 1: 1,327.2
 Noise: 0.2

Peak table for sample 3 : 12iF6

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	193	166.90	1,310.9		60.11
3	202	66.69	501.3		60.94
4	211	74.55	534.4		61.85
5	231	81.93	537.5		63.69
6	288	346.91	1,827.4		69.01
7	295	582.70	2,994.4		69.69
8	394	61.98	238.6		77.56
9	10,380	75.00	10.9	Upper Marker	113.00

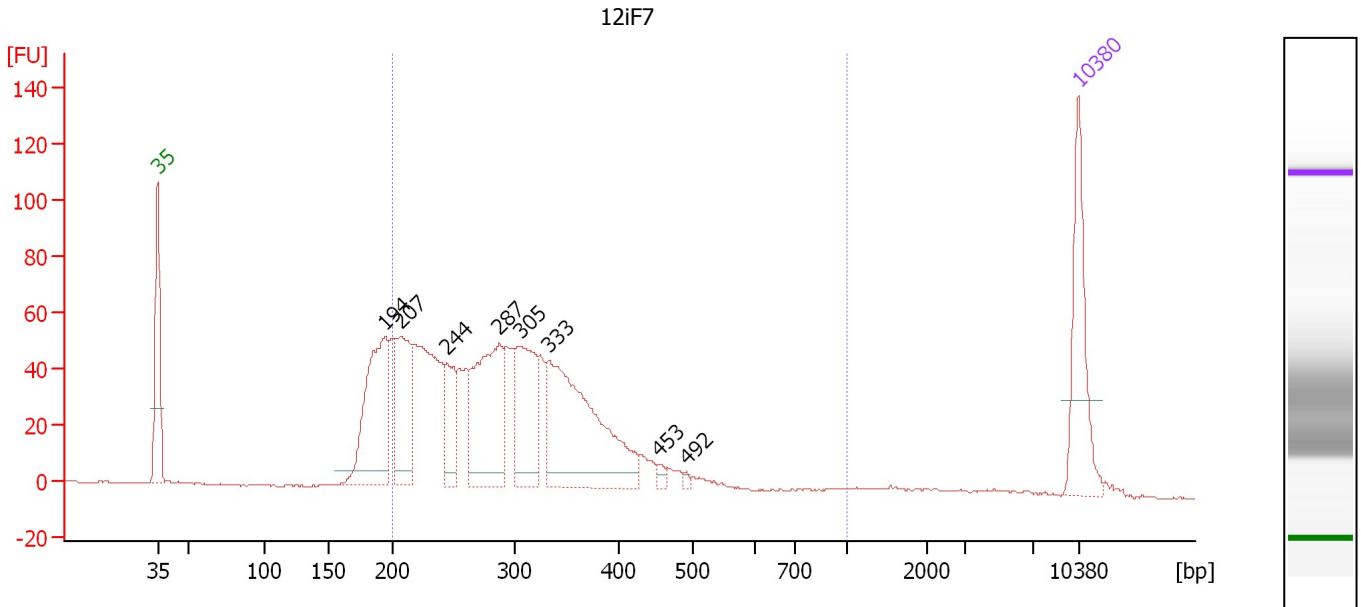
Region table for sample 3 : 12iF6

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	306	1,404.37	1,327.2	7,396.7	87	25.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
 Modified: 11/5/2019 11:51:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 12iF7

Number of peaks found: 8 Corr. Area 1: 1,196.6
 Noise: 0.2

Peak table for sample 4 : 12iF7

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	194	181.71	1,416.3		60.25
3	207	115.22	841.9		61.48
4	244	60.15	372.8		64.96
5	287	166.77	879.4		68.98
6	305	112.56	559.5		70.55
7	333	242.17	1,102.8		72.75
8	453	5.14	17.2		81.04
9	492	3.21	9.9		83.20
10	10,380	75.00	10.9	Upper Marker	113.00

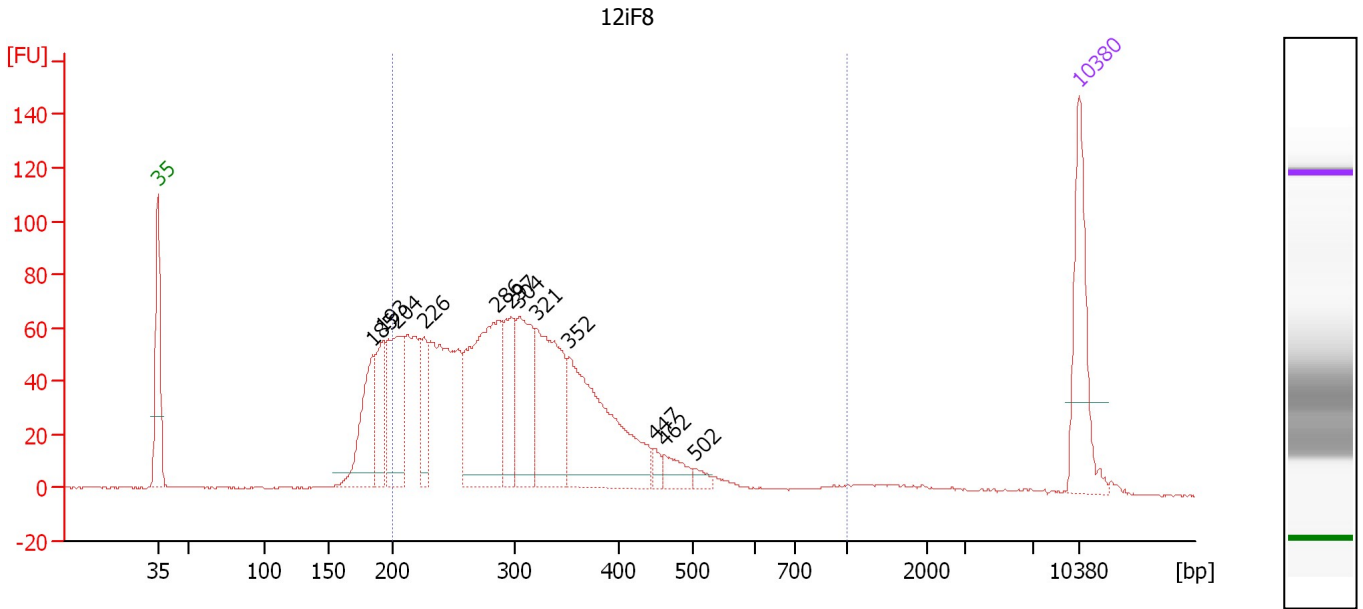
Region table for sample 4 : 12iF7

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	303	1,088.03	1,196.6	5,845.2	84	27.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
 Modified: 11/5/2019 11:51:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 12iF8

Number of peaks found: 12 Corr. Area 1: 1,553.6
 Noise: 0.2

Peak table for sample 5 : 12iF8

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	185	99.09	813.7		59.32
3	193	64.55	505.6		60.16
4	204	110.49	820.8		61.16
5	226	57.46	384.7		63.26
6	286	219.28	1,162.1		68.84
7	297	78.51	401.1		69.84
8	304	110.05	548.3		70.49
9	321	157.48	743.0		71.84
10	352	207.08	891.1		74.28
11	447	10.95	37.1		80.72
12	462	20.14	66.1		81.52
13	502	8.43	25.4		83.76
14	10,380	75.00	10.9	Upper Marker	113.00

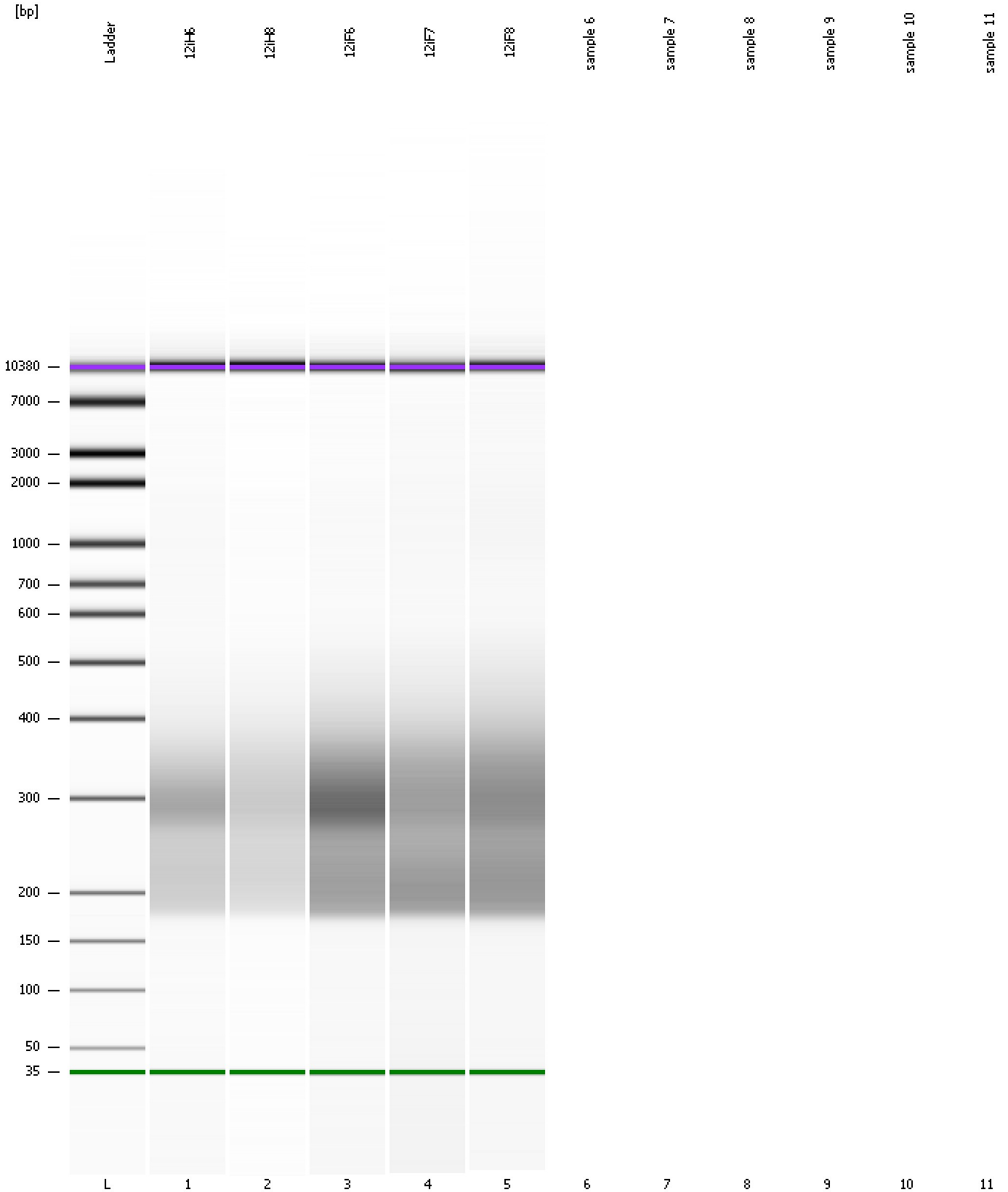
Region table for sample 5 : 12iF8

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	317	1,320.87	1,553.6	6,915.6	82	31.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
Modified: 11/5/2019 11:51:09 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
Modified: 11/5/2019 11:51:09 AM

Invalid Samples

Sample 6 has not been run, no results available.

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.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad

Created: 11/5/2019 11:27:00 AM
 Modified: 11/5/2019 11:51:09 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		11/5/2019 11:51:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_002.xad)		Instrument	Run		11/5/2019 11:27:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/5/2019 11:27:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/5/2019 11:27:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/5/2019 11:27:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/5/2019 11:27:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/5/2019 11:27:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/5/2019 11:27:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1