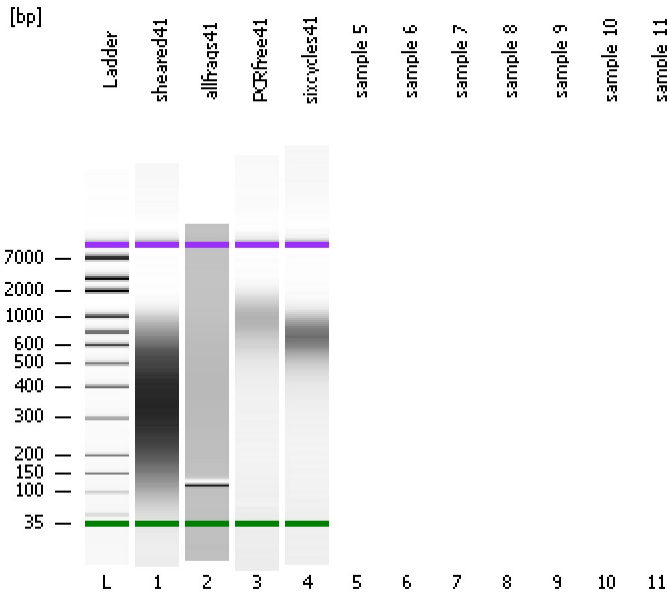


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
Modified: 4/26/2019 1:55:23 PM

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

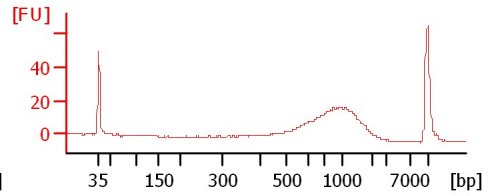
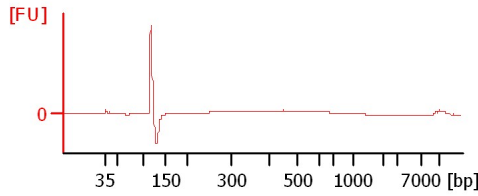
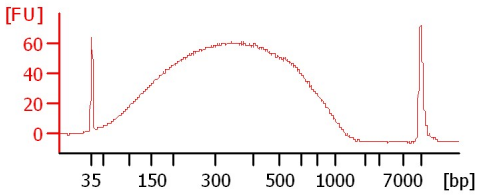
Chip Information:

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

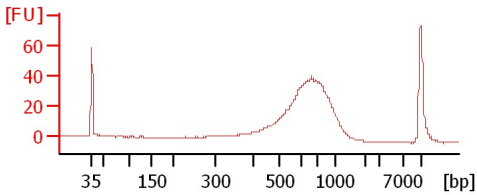
sheared41

allfrags41

PCRfree41



sixcycles41



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
Modified: 4/26/2019 1:55:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sheared41		<input type="checkbox"/>	✓			
allfrags41		<input type="checkbox"/>	✓			
PCRfree41		<input type="checkbox"/>	✓			
sixcycles41		<input type="checkbox"/>	✓			
sample 5		<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\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
Modified: 4/26/2019 1:55:23 PM

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

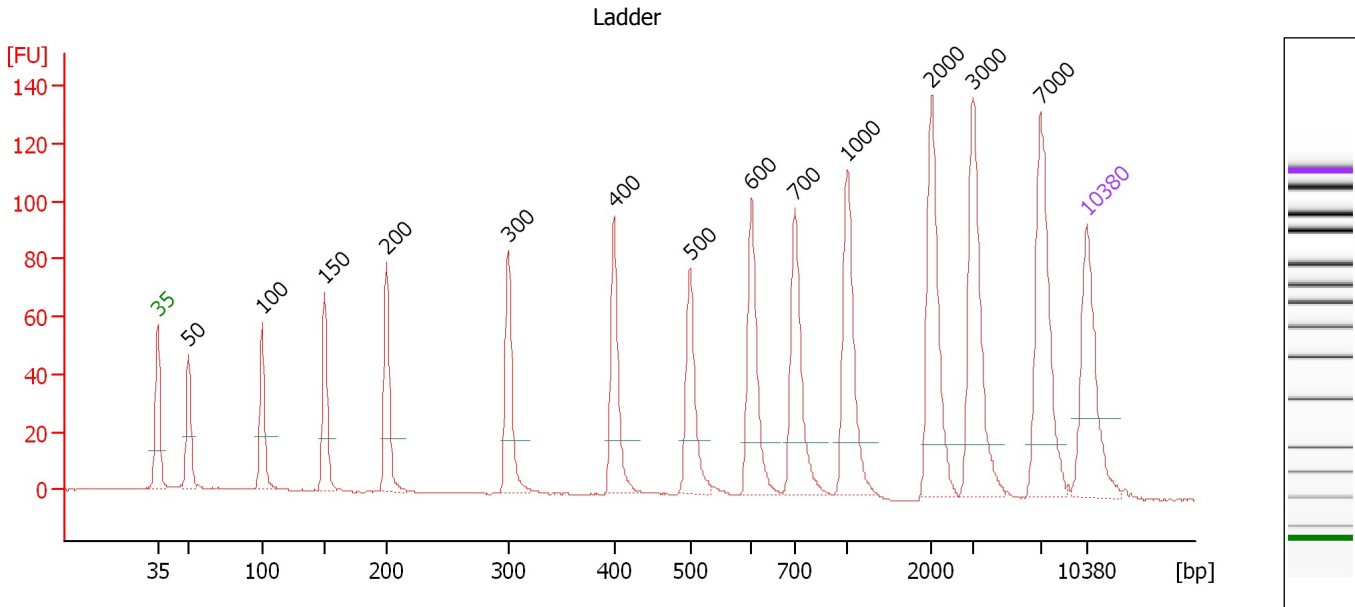
Ladder

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\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
 Modified: 4/26/2019 1:55:23 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

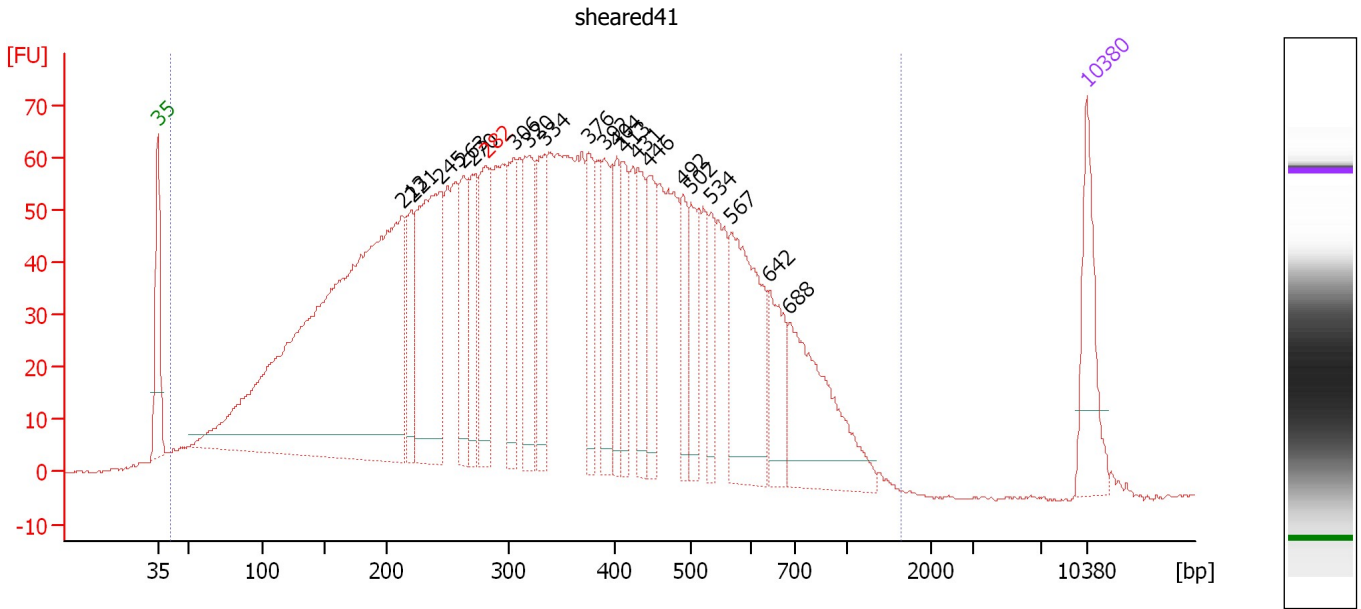
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.88
4	150	150.00	1,515.2	Ladder Peak	55.59
5	200	150.00	1,136.4	Ladder Peak	60.26
6	300	150.00	757.6	Ladder Peak	69.40
7	400	150.00	568.2	Ladder Peak	77.37
8	500	150.00	454.5	Ladder Peak	83.11
9	600	150.00	378.8	Ladder Peak	87.72
10	700	150.00	324.7	Ladder Peak	90.99
11	1,000	150.00	227.3	Ladder Peak	94.95
12	2,000	150.00	113.6	Ladder Peak	101.29
13	3,000	150.00	75.8	Ladder Peak	104.42
14	7,000	150.00	32.5	Ladder Peak	109.50
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
 Modified: 4/26/2019 1:55:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sheared41

Number of peaks found: 20 Corr. Area 1: 3,123.0
 Noise: 0.3

Peak table for sample 1 : sheared41

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	213	1,109.62	7,905.3		61.41
3	221	91.30	626.0		62.17
4	245	292.19	1,808.0		64.36
5	263	101.14	582.6		66.02
6	270	93.78	525.7		66.68
7	282	140.00	752.9	excluded peak	67.73
8	306	103.99	515.2		69.86
9	320	127.53	603.6		71.00
10	334	105.54	479.0		72.09
11	376	79.74	321.3		75.46
12	392	91.99	356.0		76.69
13	404	69.09	259.2		77.60
14	413	67.99	249.4		78.12
15	431	80.74	283.7		79.16
16	446	73.63	250.1		80.02
17	492	57.60	177.5		82.63
18	502	72.89	220.0		83.20
19	534	51.62	146.5		84.67
20	567	194.40	519.7		86.19
21	642	75.62	178.6		89.08
22	688	181.38	399.4		90.60
23	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
Modified: 4/26/2019 1:55:23 PM

Electropherogram Summary Continued ...

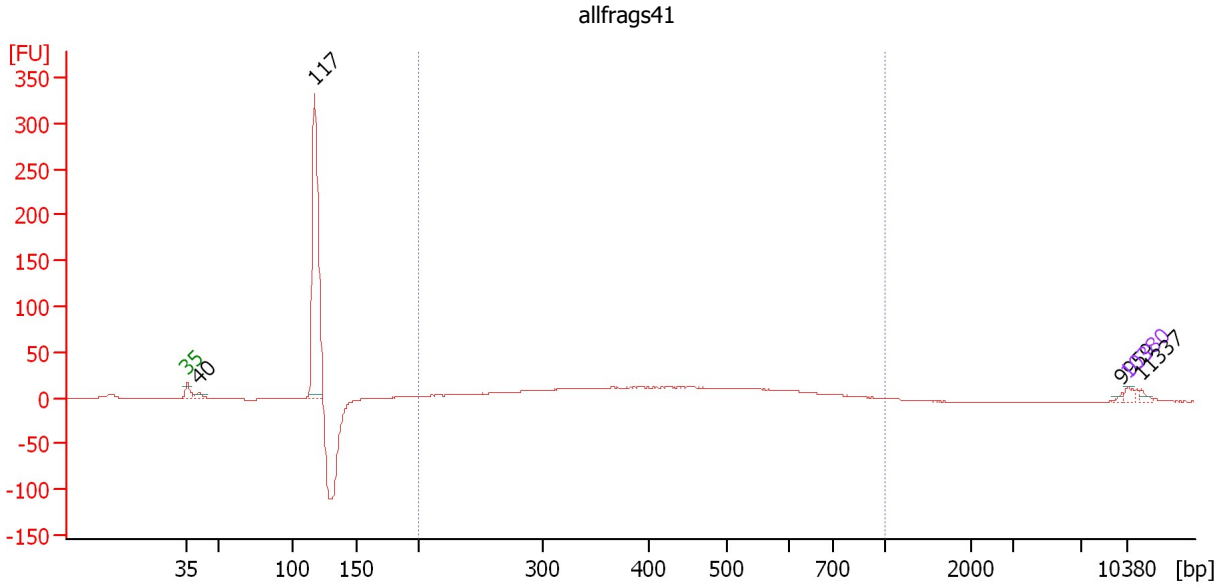
... Region table for sample 1 : sheared41

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
41	1,650	365	5,021.52	3,123.0	33,483.7	 99	50.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
 Modified: 4/26/2019 1:55:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : allfrags41

Number of peaks found: 4 Corr. Area 1: 495.8
 Noise: 0.3

Peak table for sample 2 : allfrags41

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	154.71	5,809.0		43.83
3	117	5,603.47	72,662.9		52.47
4	9,959	30.20	4.6		112.56
5	10,380	75.00	10.9	Upper Marker	113.00
6	11,337	0.00	0.0		113.99

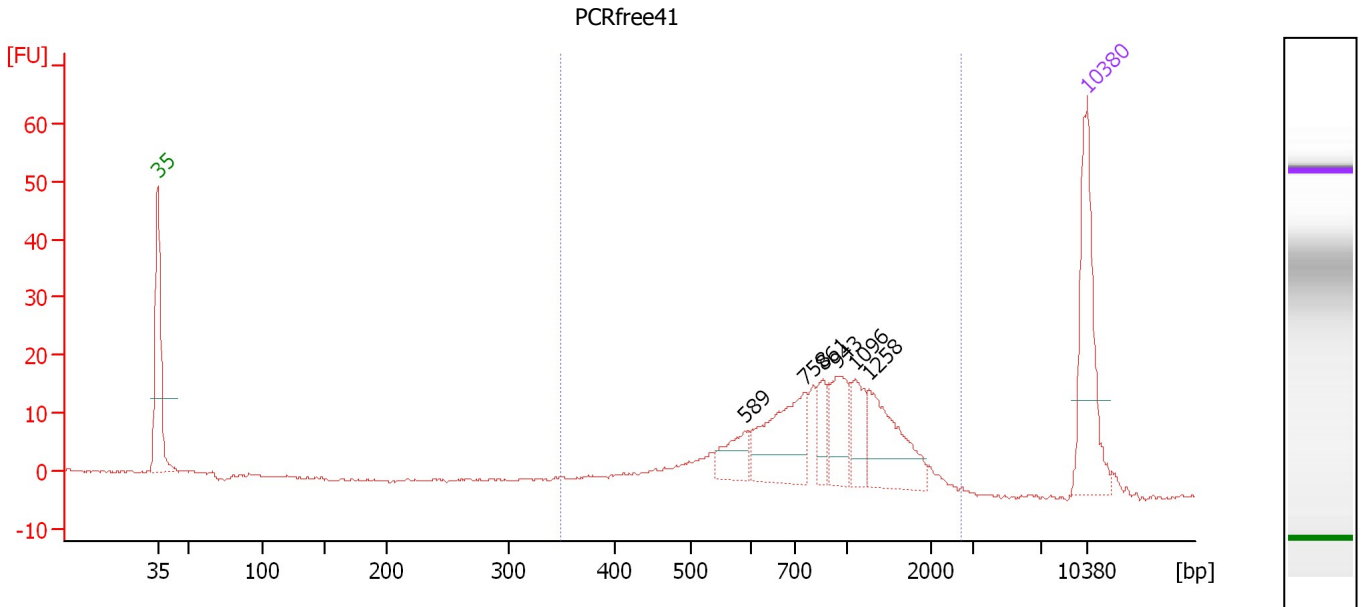
Region table for sample 2 : allfrags41

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	439	5,010.07	495.8	20,299.2	51	33.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
 Modified: 4/26/2019 1:55:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : PCRfree41

Number of peaks found: 6 Corr. Area 1: 234.4
 Noise: 0.2

Peak table for sample 3 : PCRfree41

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	589	26.58	68.4		87.21
3	758	76.72	153.4		91.75
4	861	19.55	34.4		93.12
5	943	40.11	64.5		94.19
6	1,096	26.78	37.0		95.56
7	1,258	61.29	73.8		96.59
8	10,380	75.00	10.9	Upper Marker	113.00

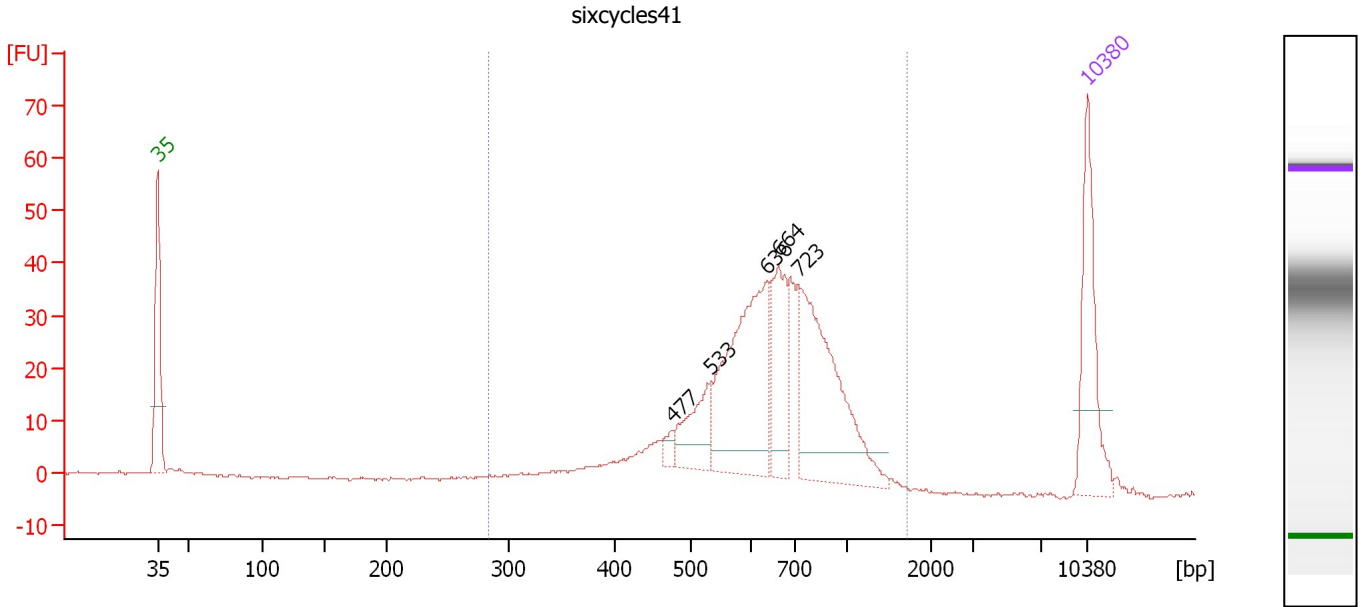
Region table for sample 3 : PCRfree41

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
350	2,710	945	306.84	234.4	591.5	95	40.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
 Modified: 4/26/2019 1:55:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sixcycles41

Number of peaks found: 5 Corr. Area 1: 468.5
 Noise: 0.3

Peak table for sample 4 : sixcycles41

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	477	9.50	30.2		81.77
3	533	51.42	146.1		84.64
4	636	177.74	423.3		88.91
5	664	78.35	178.9		89.80
6	723	182.10	381.9		91.29
7	10,380	75.00	10.9	Upper Marker	113.00

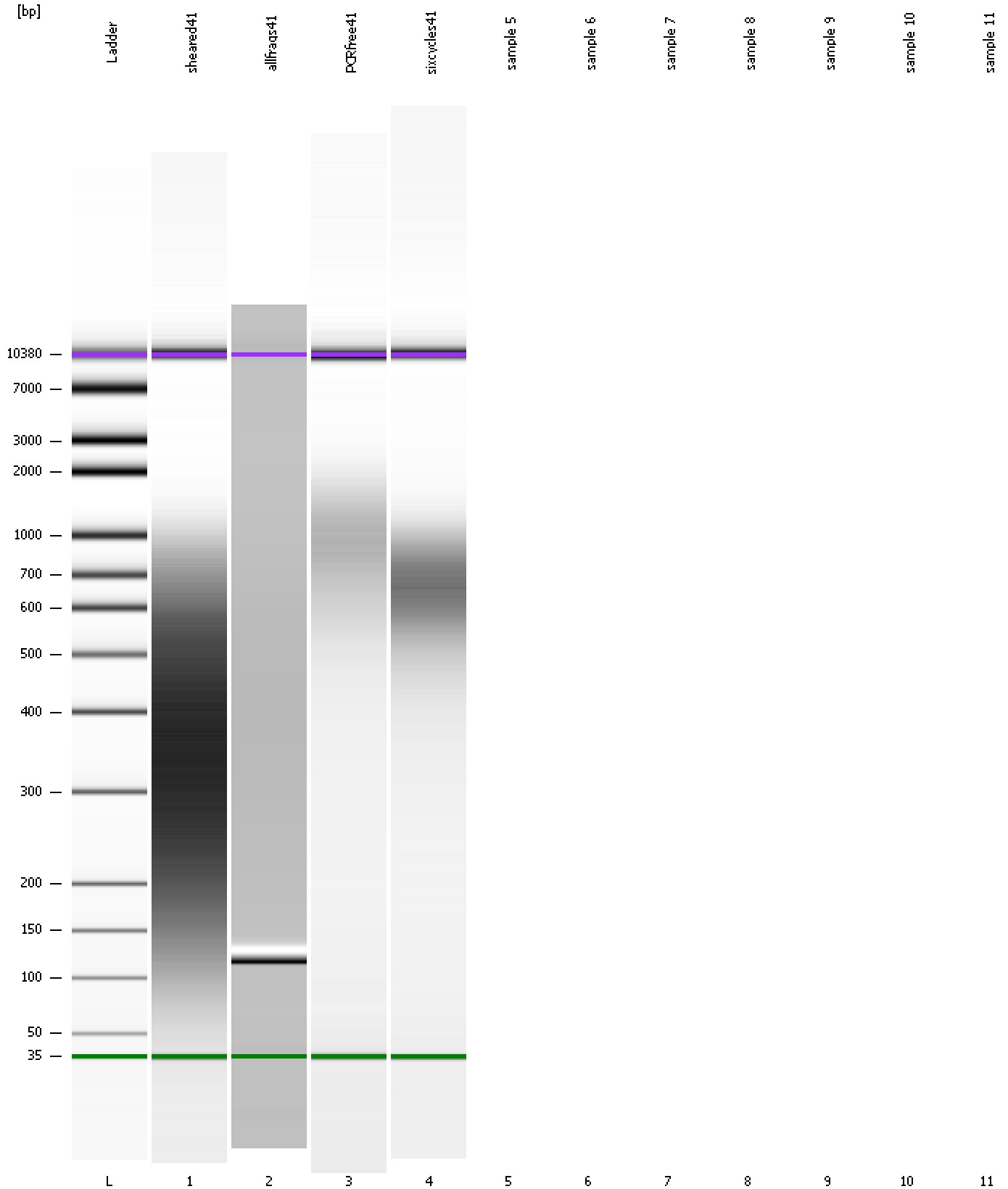
Region table for sample 4 : sixcycles41

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
285	1,720	672	609.24	468.5	1,494.1	97	26.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
Modified: 4/26/2019 1:55:23 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
Modified: 4/26/2019 1:55:23 PM

Invalid Samples

- Sample 5 has not been run, no results available.
- 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\2019-04-26\2019-04-26_001.xad

Created: 4/26/2019 1:30:31 PM
 Modified: 4/26/2019 1:55:23 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		4/26/2019 1:51:48 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\2019-04-26\2019-04-26_001.xad)		Instrument	Run		4/26/2019 1:30:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/26/2019 1:30:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/26/2019 1:30:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/26/2019 1:30:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/26/2019 1:30:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/26/2019 1:30:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/26/2019 1:30:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1