

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_002.xad

Created: 6/10/2016 12:31:37 PM
Modified: 6/10/2016 1:23:42 PM

Electrophoresis File Run Summary

Instrument Information:

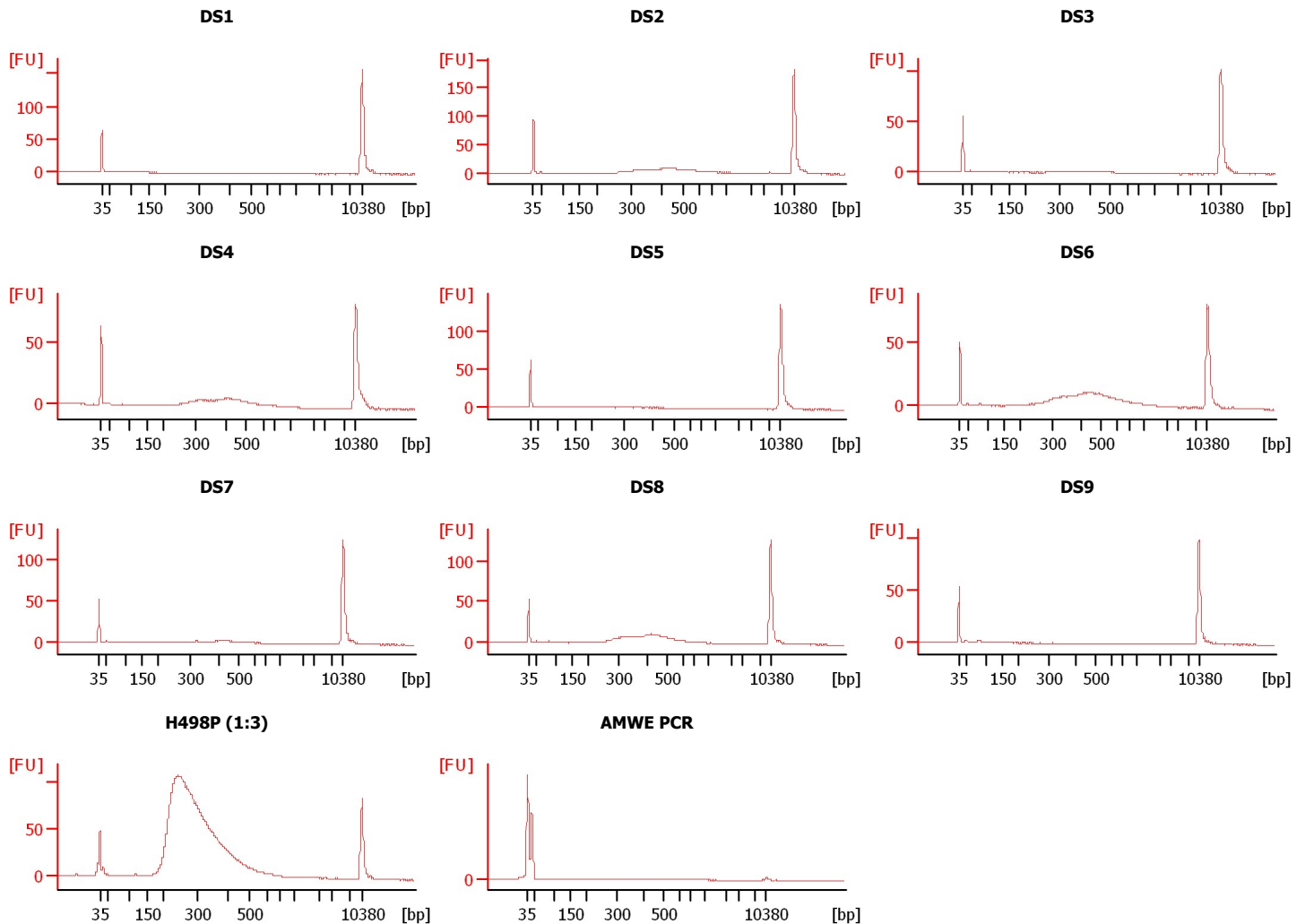
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
DS1		<input type="checkbox"/>	✓			
DS2		<input type="checkbox"/>	✓			
DS3		<input type="checkbox"/>	✓			
DS4		<input type="checkbox"/>	✓			
DS5		<input type="checkbox"/>	✓			
DS6		<input type="checkbox"/>	✓			
DS7		<input type="checkbox"/>	✓			
DS8		<input type="checkbox"/>	✓			
DS9		<input type="checkbox"/>	✓			
H498P (1:3)		<input type="checkbox"/>	✓			
AMWE PCR		<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

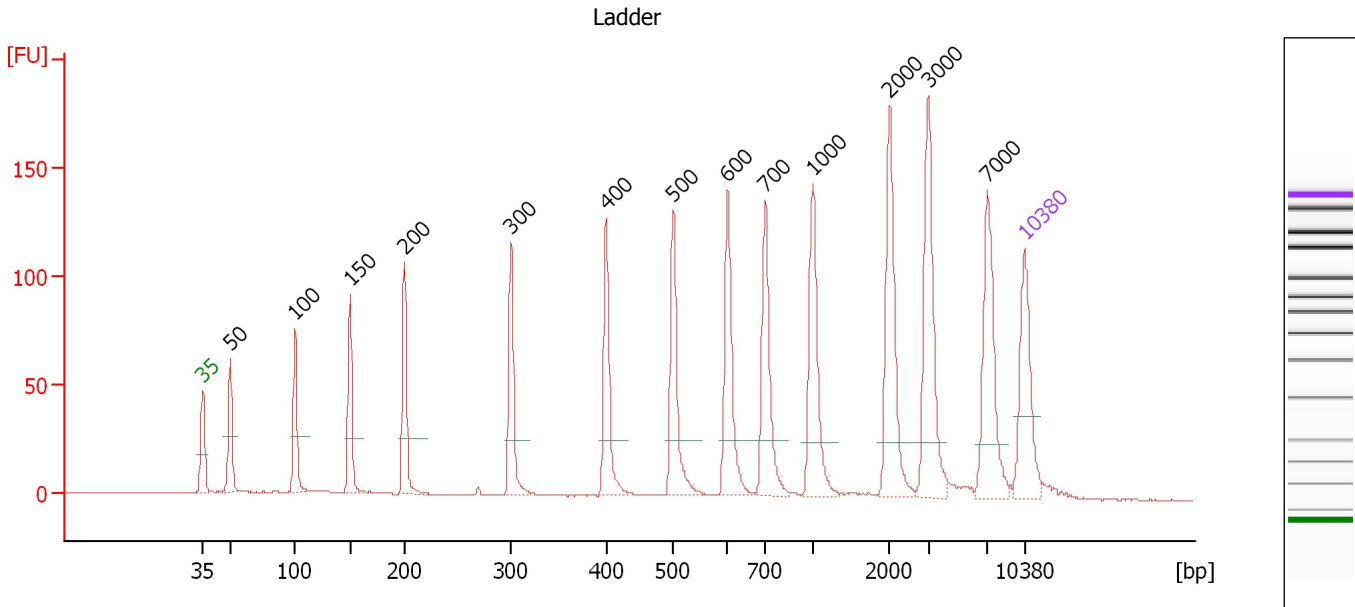
Ladder

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

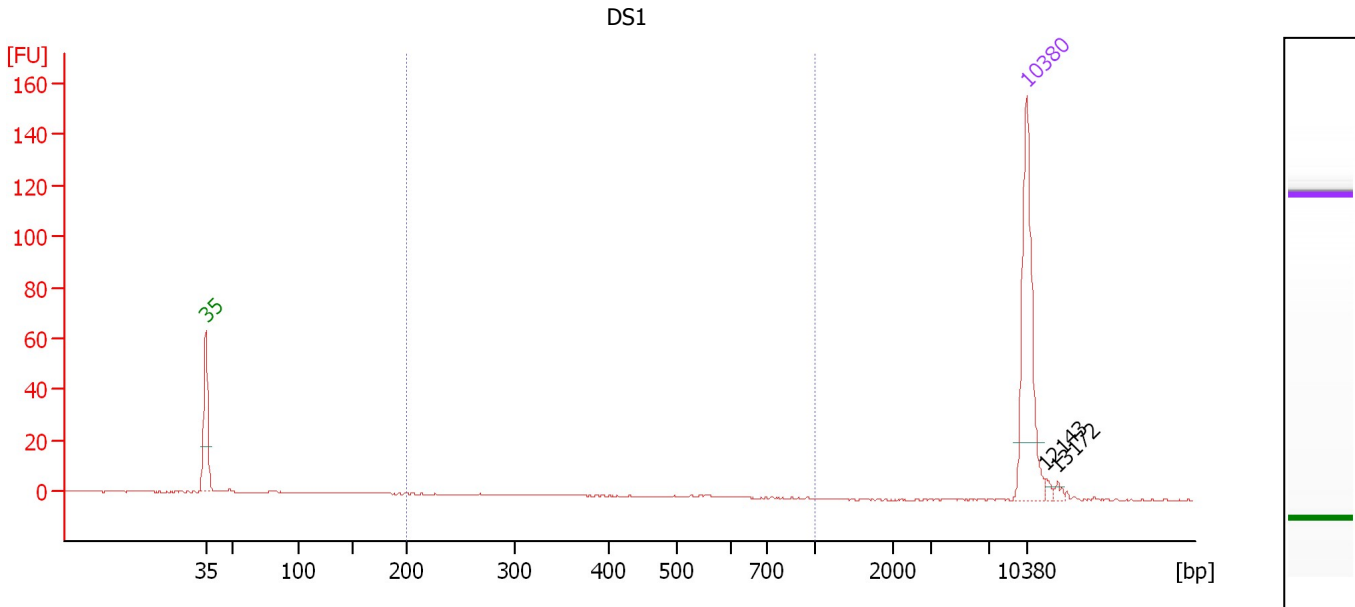
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.86
4	150	150.00	1,515.2	Ladder Peak	55.55
5	200	150.00	1,136.4	Ladder Peak	60.18
6	300	150.00	757.6	Ladder Peak	69.27
7	400	150.00	568.2	Ladder Peak	77.36
8	500	150.00	454.5	Ladder Peak	83.09
9	600	150.00	378.8	Ladder Peak	87.73
10	700	150.00	324.7	Ladder Peak	90.91
11	1,000	150.00	227.3	Ladder Peak	95.00
12	2,000	150.00	113.6	Ladder Peak	101.55
13	3,000	150.00	75.8	Ladder Peak	104.82
14	7,000	150.00	32.5	Ladder Peak	109.86
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : DS1

Number of peaks found: 2 Corr. Area 1: 0.8
 Noise: 0.2

Peak table for sample 1 : DS1

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	12,143	0.00	0.0		114.64
4	13,172	0.00	0.0		115.59

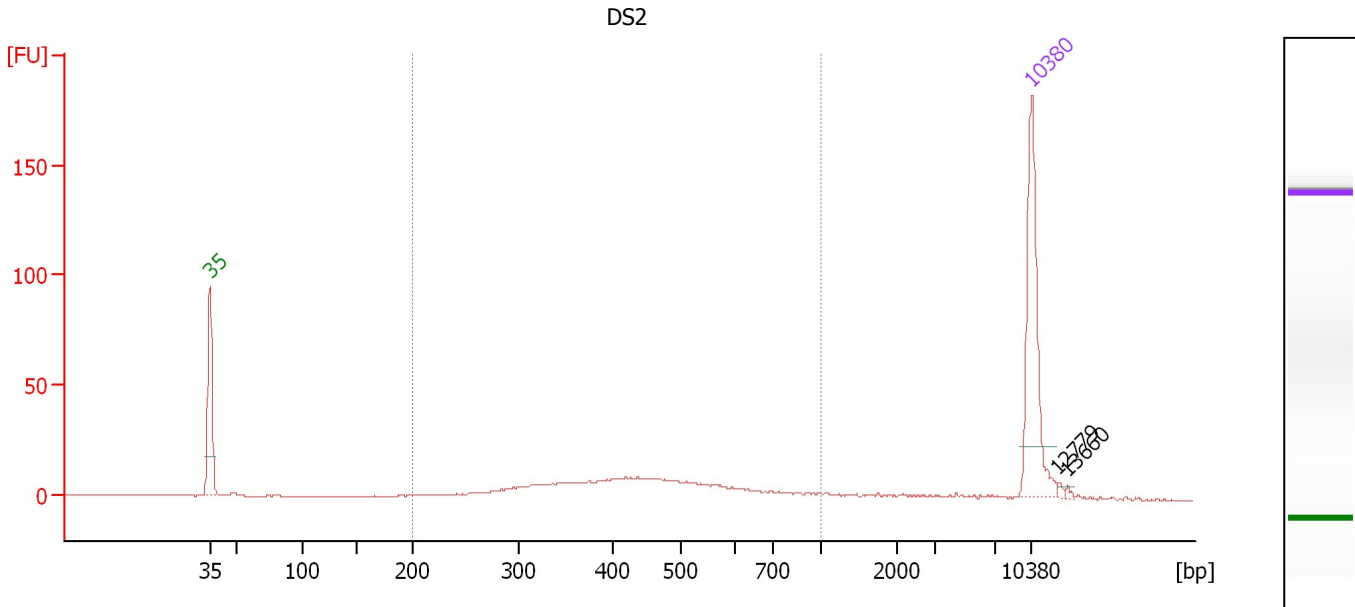
Region table for sample 1 : DS1

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	442	0.8	2.5	0.62	4	29.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : DS2

Number of peaks found: 2 Corr. Area 1: 213.7
 Noise: 0.2

Peak table for sample 2 : DS2

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	12,779	0.00	0.0		115.23
4	13,660	0.00	0.0		116.04

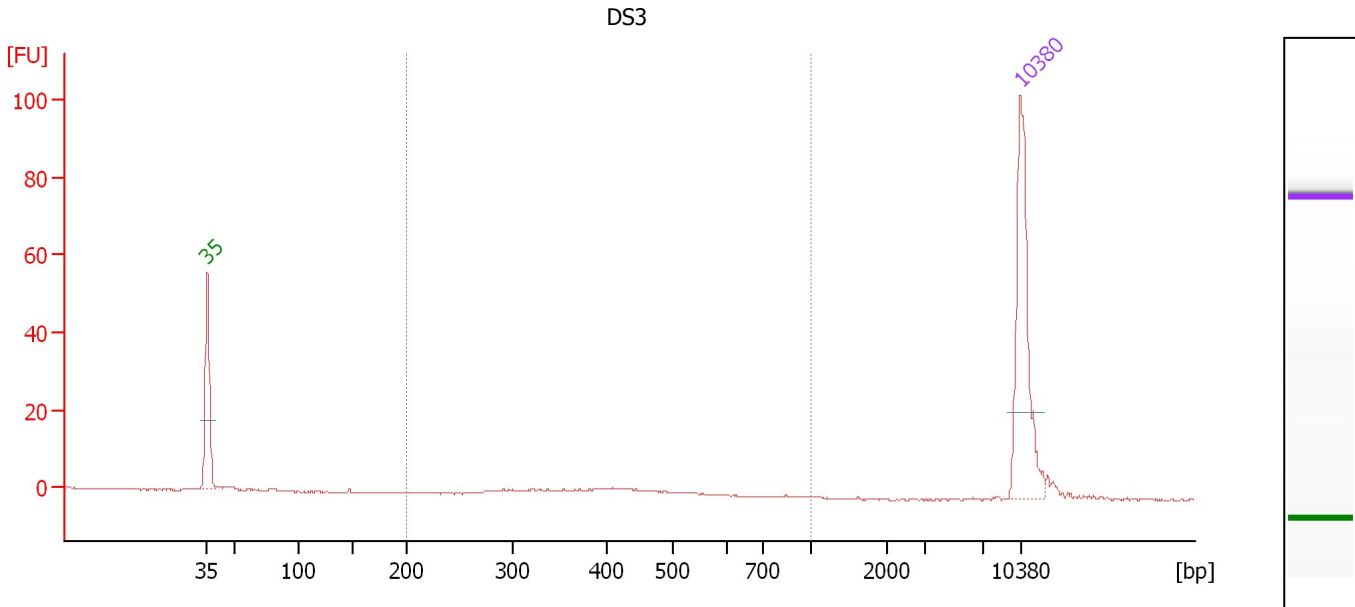
Region table for sample 2 : DS2

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	457	213.7	520.6	138.55	83	31.6

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Electropherogram Summary Continued ...



Overall Results for sample 3 : DS3

Number of peaks found: 0 Corr. Area 1: 19.2
 Noise: 0.2

Peak table for sample 3 : DS3

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

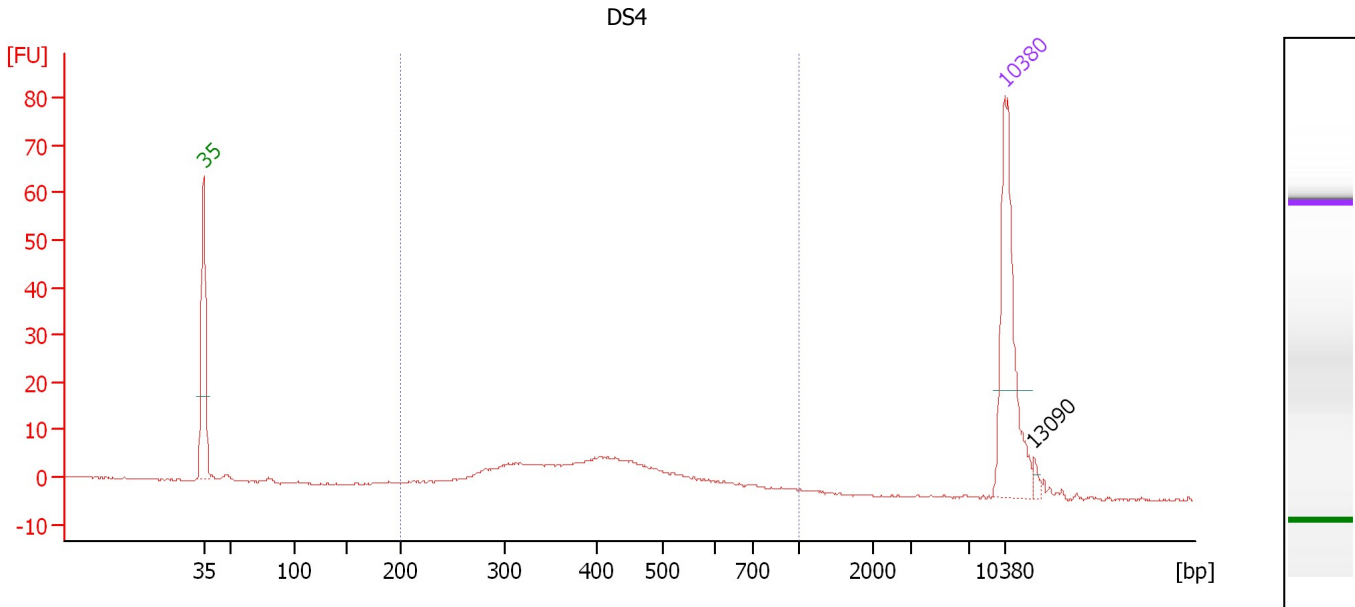
Region table for sample 3 : DS3

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	398	19.2	77.6	19.54	67	17.7

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Electropherogram Summary Continued ...



Overall Results for sample 4 : DS4

Number of peaks found: 1 Corr. Area 1: 129.4
 Noise: 0.2

Peak table for sample 4 : DS4

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	13,090	0.00	0.0		115.51

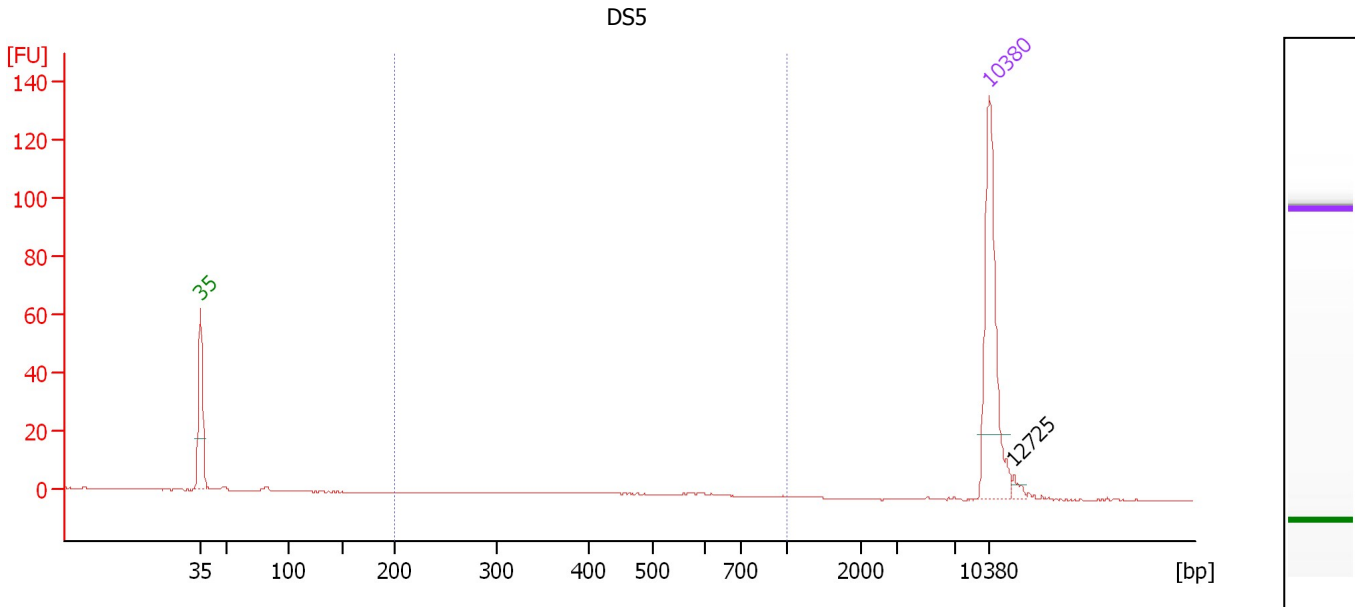
Region table for sample 4 : DS4

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	412	129.4	566.3	140.80	93	26.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : DS5

Number of peaks found: 1 Corr. Area 1: 11.6
 Noise: 0.1

Peak table for sample 5 : DS5

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	12,725	0.00	0.0		115.18

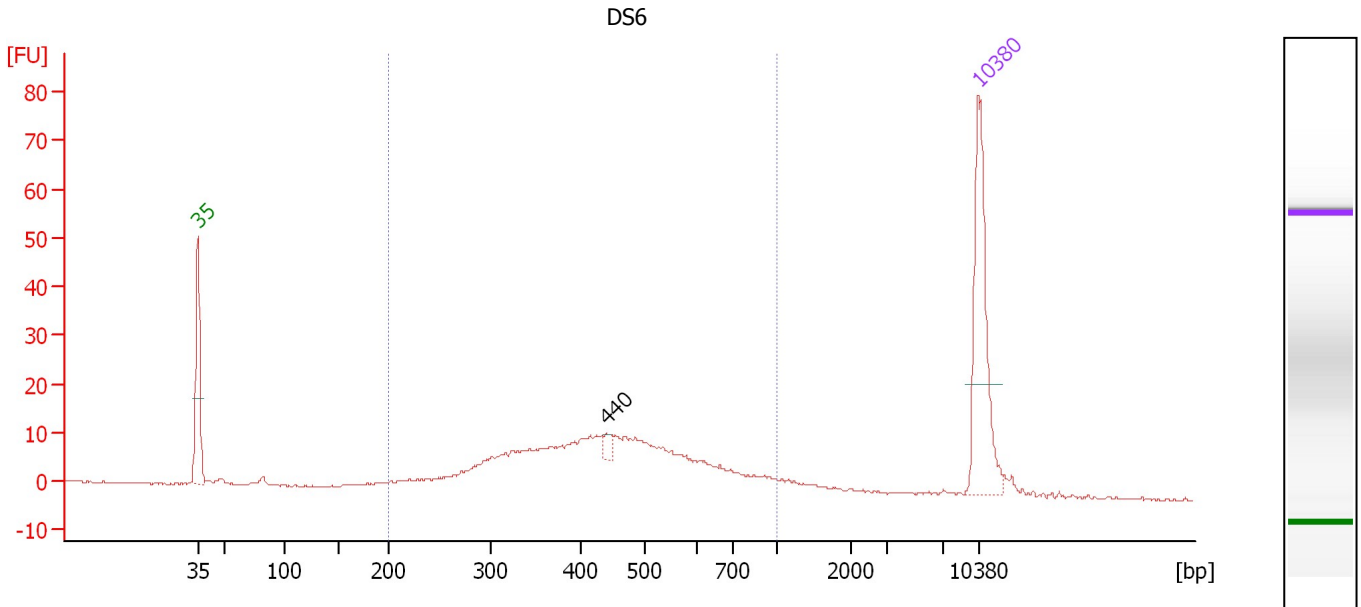
Region table for sample 5 : DS5

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	470	11.6	31.9	8.88	42	28.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : DS6

Number of peaks found: 1 Corr. Area 1: 281.9
 Noise: 0.2

Peak table for sample 6 : DS6

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	440	6.02	20.7		79.67
3	10,380	75.00	10.9	Upper Marker	113.00

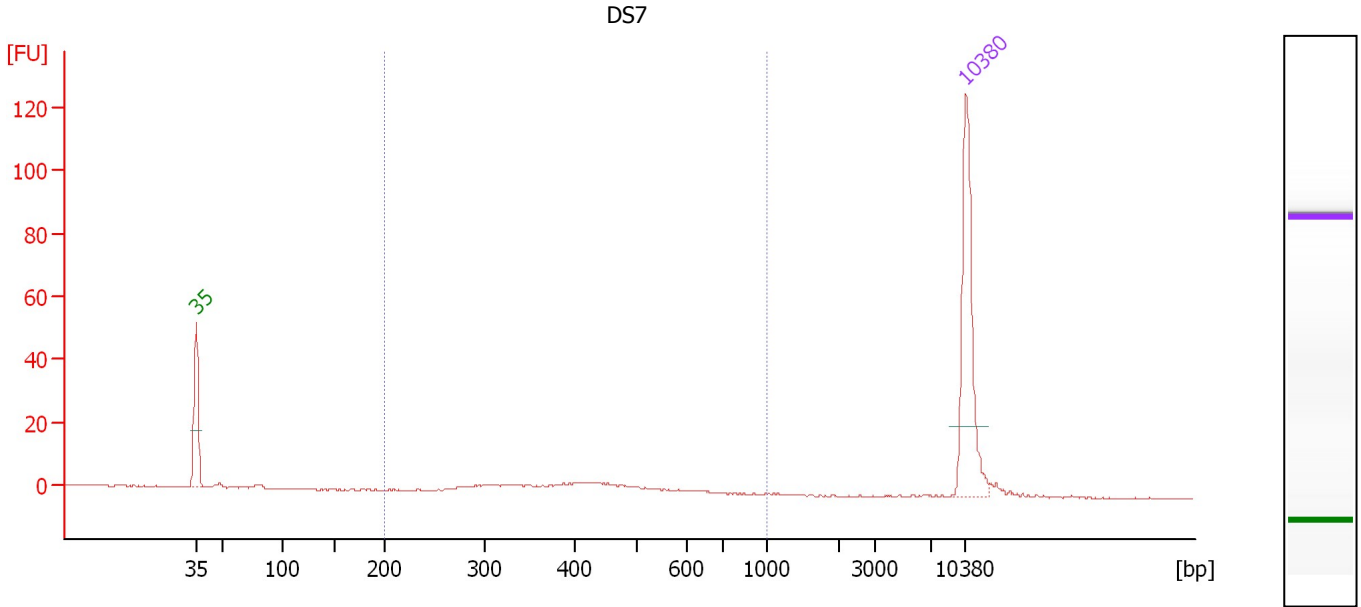
Region table for sample 6 : DS6

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	459	281.9	1,261.9	333.73	89	32.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : DS7

Number of peaks found: 0 Corr. Area 1: 44.5
 Noise: 0.1

Peak table for sample 7 : DS7

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

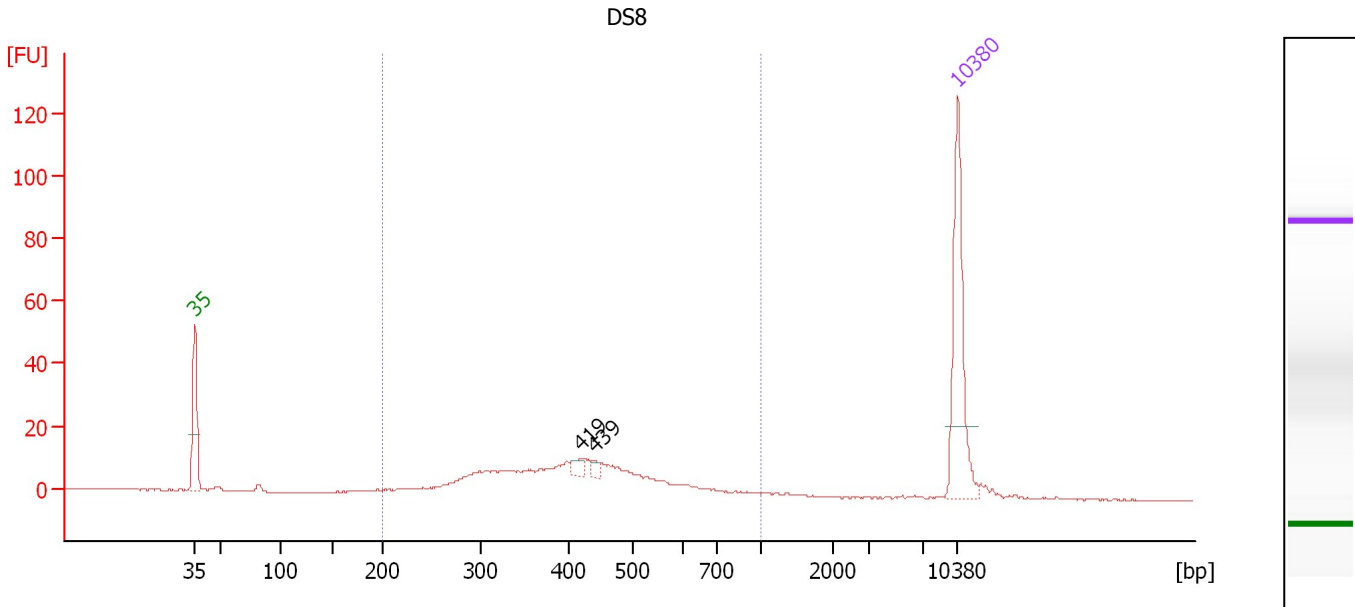
Region table for sample 7 : DS7

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	412	44.5	157.0	40.24	85	20.7

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 8 : DS8

Number of peaks found: 2 Corr. Area 1: 226.4
 Noise: 0.2

Peak table for sample 8 : DS8

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	419	7.96	28.8		78.46
3	439	5.32	18.4		79.59
4	10,380	75.00	10.9	Upper Marker	113.00

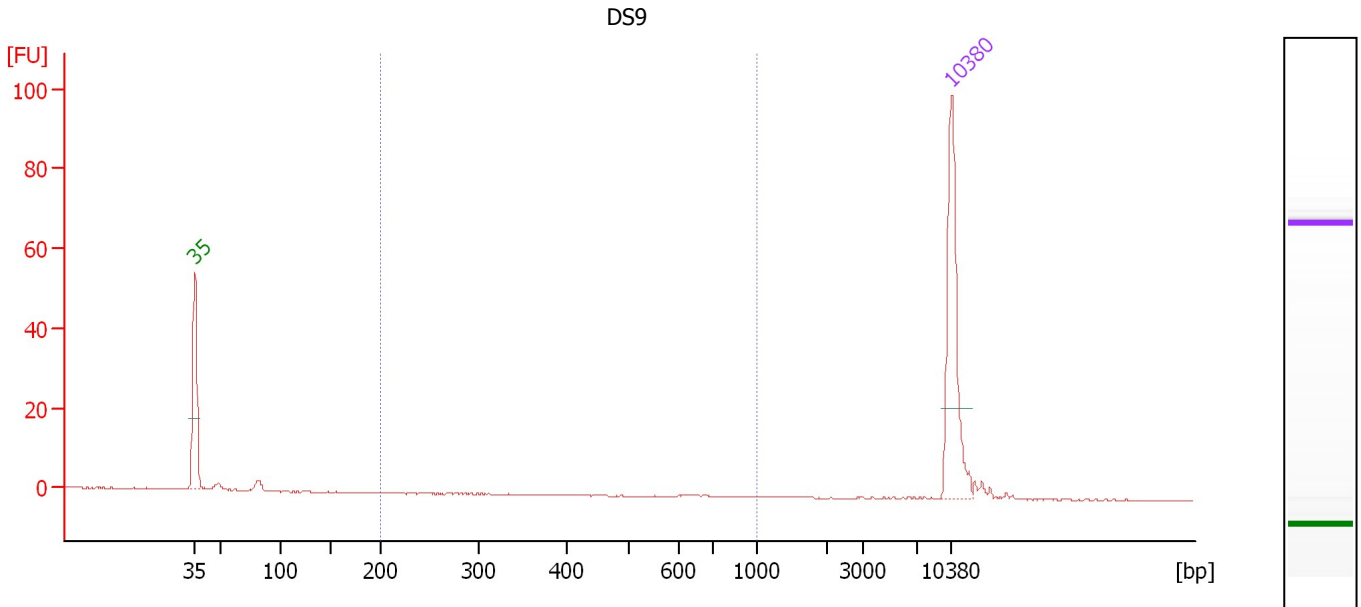
Region table for sample 8 : DS8

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	422	226.4	869.8	218.79	92	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : DS9

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 9 : DS9

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

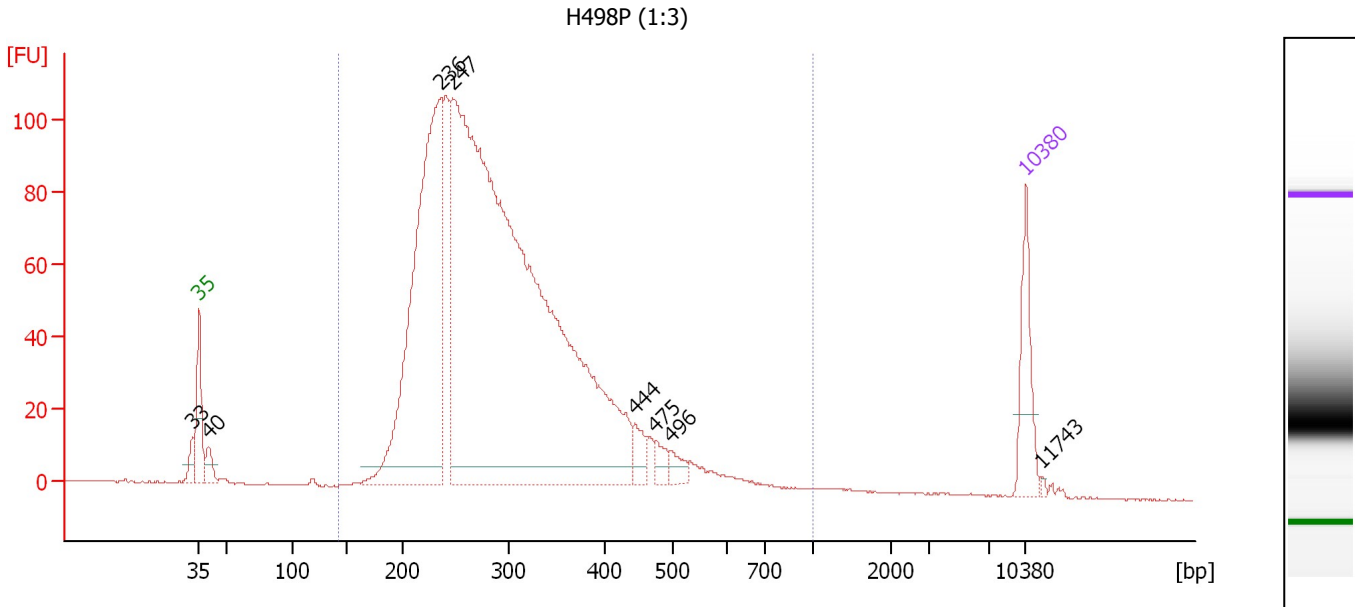
Region table for sample 9 : DS9

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : H498P (1:3)

Number of peaks found: 8 Corr. Area 1: 2,076.3
 Noise: 0.2

Peak table for sample 10 : H498P (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.46
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	34.69	1,315.2		43.77
4	236	887.48	5,696.8		63.46
5	247	2,485.27	15,247.2		64.45
6	444	32.14	109.6		79.90
7	475	22.69	72.4		81.66
8	496	21.27	64.9		82.88
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,743	0.00	0.0		114.26

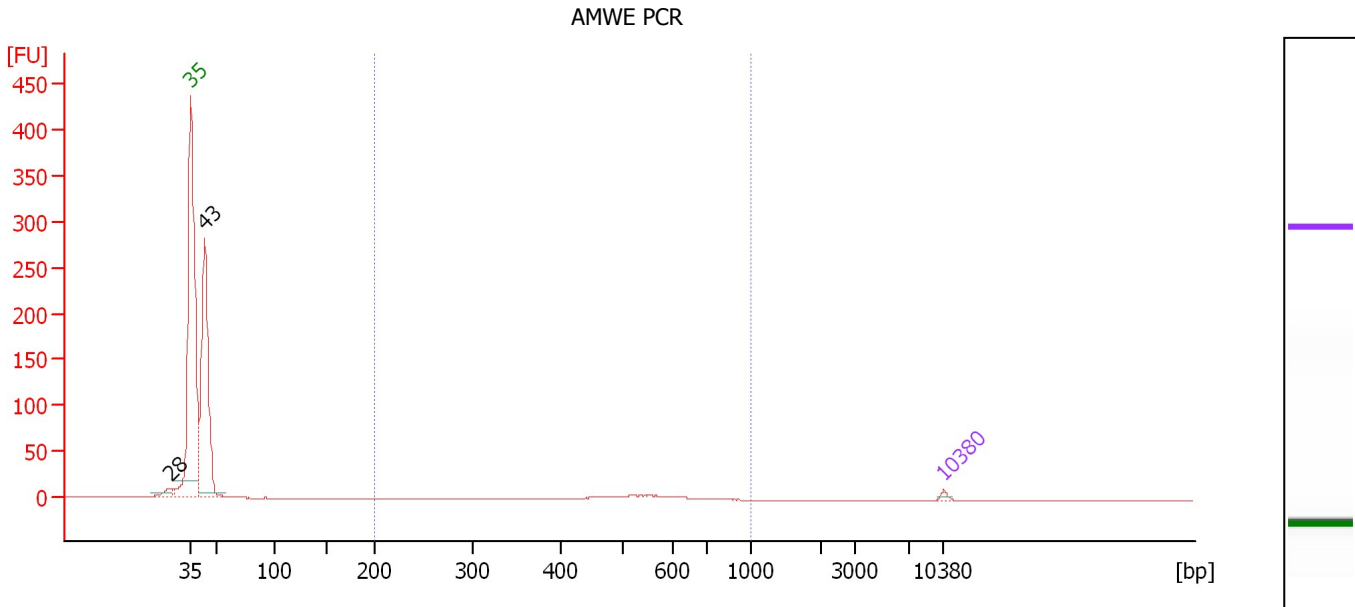
Region table for sample 10 : H498P (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
141	1,000	303	2,076.3	19,062.0	3,490.65	97	29.7

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Electropherogram Summary Continued ...



Overall Results for sample 11 : AMWE PCR

Number of peaks found: 2 Corr. Area 1: 29.6
 Noise: 0.1

Peak table for sample 11 : AMWE PCR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.07
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	9,522.40	332,897.3		44.29
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : AMWE PCR

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	544	29.6	1,106.5	391.30	6	10.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-10\2016-06-10_002.xad

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Gel Image

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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		6/10/2016 1:12:53 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\2016-06-10\2016-06-10_002.xad)		Instrument	Run		6/10/2016 12:31:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/10/2016 12:31:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/10/2016 12:31:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/10/2016 12:31:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/10/2016 12:31:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/10/2016 12:31:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/10/2016 12:31:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1