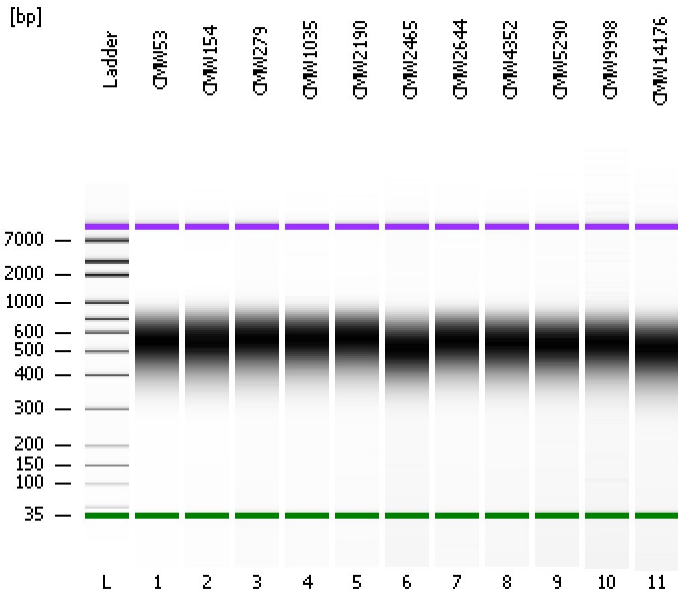


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
Modified: 5/18/2014 3:50:56 PM

Electrophoresis File Run Summary



Instrument Information:

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

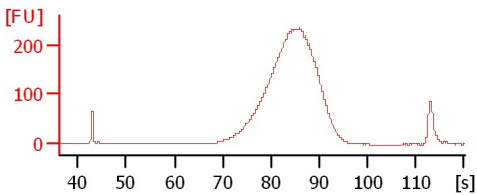
Assay Information:

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

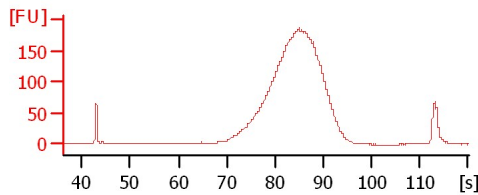
Chip Information:

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

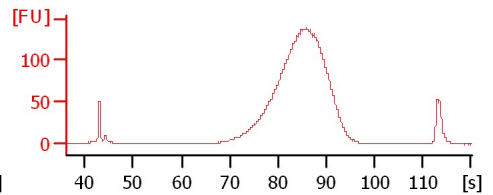
CMW53



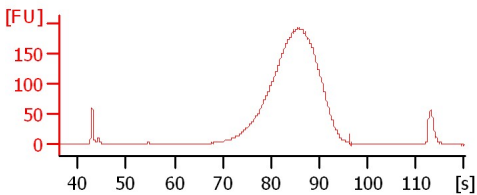
CMW154



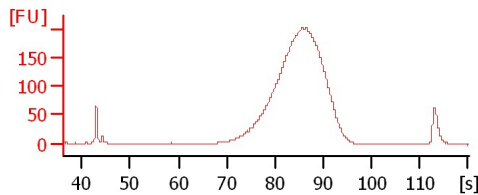
CMW279



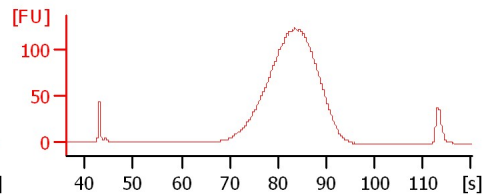
CMW1035



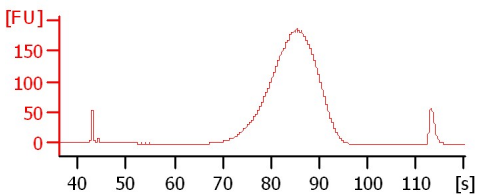
CMW2190



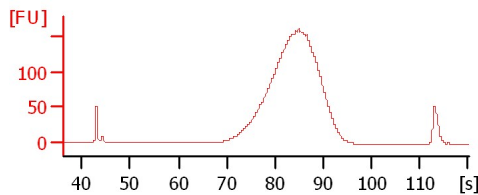
CMW2465



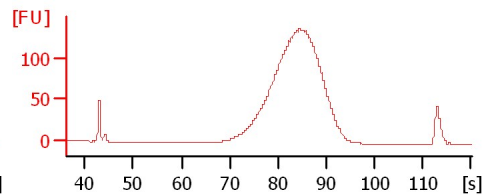
CMW2644



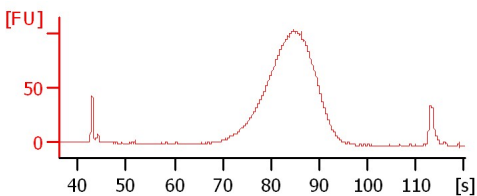
CMW4352



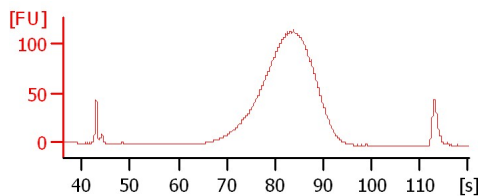
CMW5290



CMW9998



CMW14176



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
Modified: 5/18/2014 3:50:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CMW53		<input type="checkbox"/>	✓			
CMW154		<input type="checkbox"/>	✓			
CMW279		<input type="checkbox"/>	✓			
CMW1035		<input type="checkbox"/>	✓			
CMW2190		<input type="checkbox"/>	✓			
CMW2465		<input type="checkbox"/>	✓			
CMW2644		<input type="checkbox"/>	✓			
CMW4352		<input type="checkbox"/>	✓			
CMW5290		<input type="checkbox"/>	✓			
CMW9998		<input type="checkbox"/>	✓			
CMW14176		<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\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
Modified: 5/18/2014 3:50:56 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

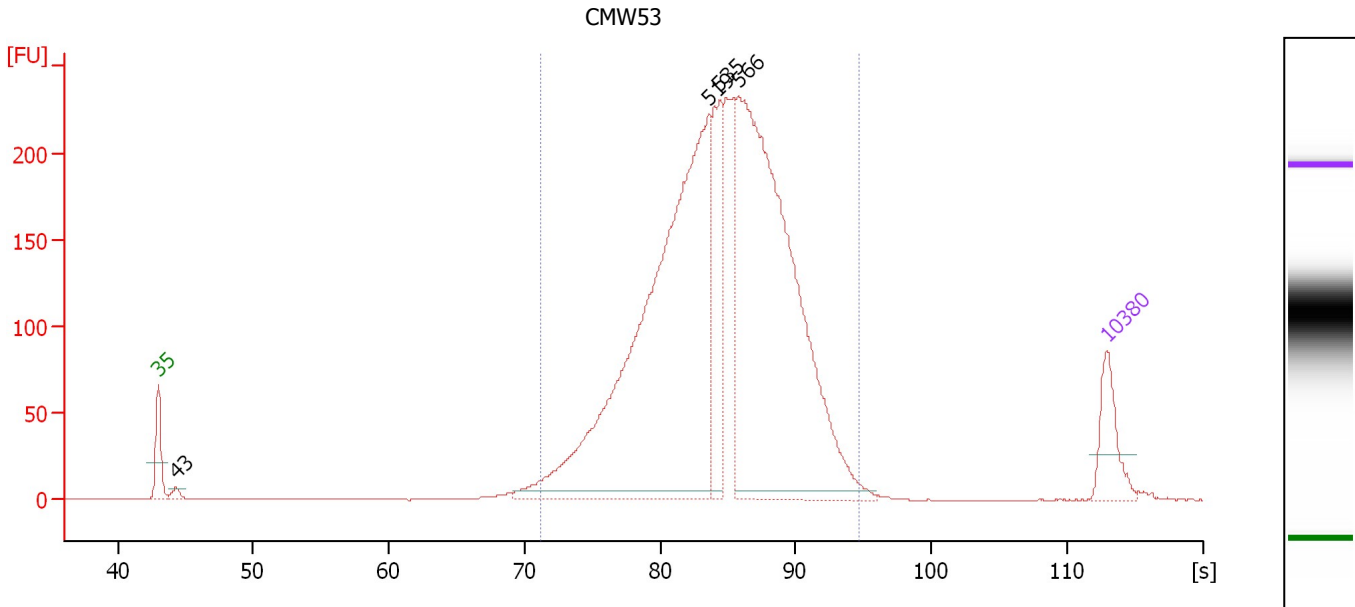
Ladder

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\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
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Electropherogram Summary



Overall Results for sample 1 : CMW53

Number of peaks found: 4 Corr. Area 1: 3,379.0
 Noise: 0.2

Peak table for sample 1 : CMW53

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	13.72	479.8	
3	519	1,408.93	4,111.3	
4	535	226.05	640.0	
5	566	1,246.37	3,336.5	
6	10,380	75.00	10.9	Upper Marker

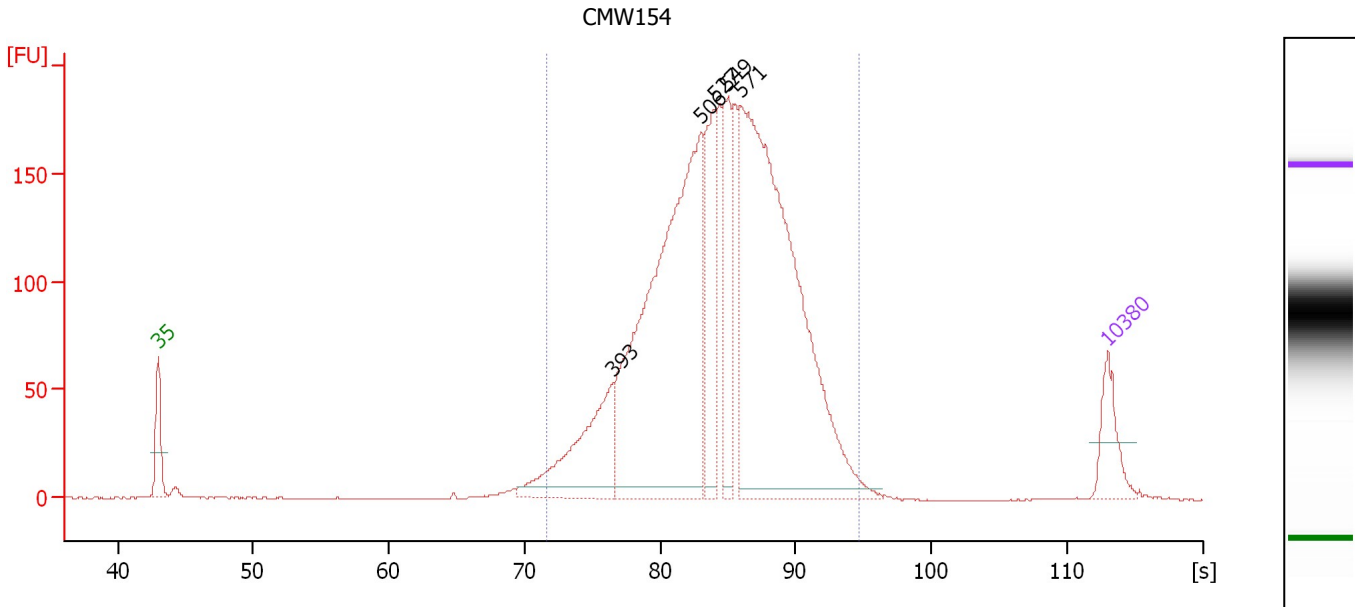
Region table for sample 1 : CMW53

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
71.25	94.62	547	9,190.5	3,151.31	■	3,379.0	98	19.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CMW154

Number of peaks found: 5 Corr. Area 1: 2,727.9
 Noise: 0.2

Peak table for sample 2 : CMW154

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	393	292.65	1,127.9	
3	506	1,174.25	3,517.9	
4	527	226.74	651.5	
5	549	217.69	600.8	
6	571	1,285.26	3,412.9	
7	10,380	75.00	10.9	Upper Marker

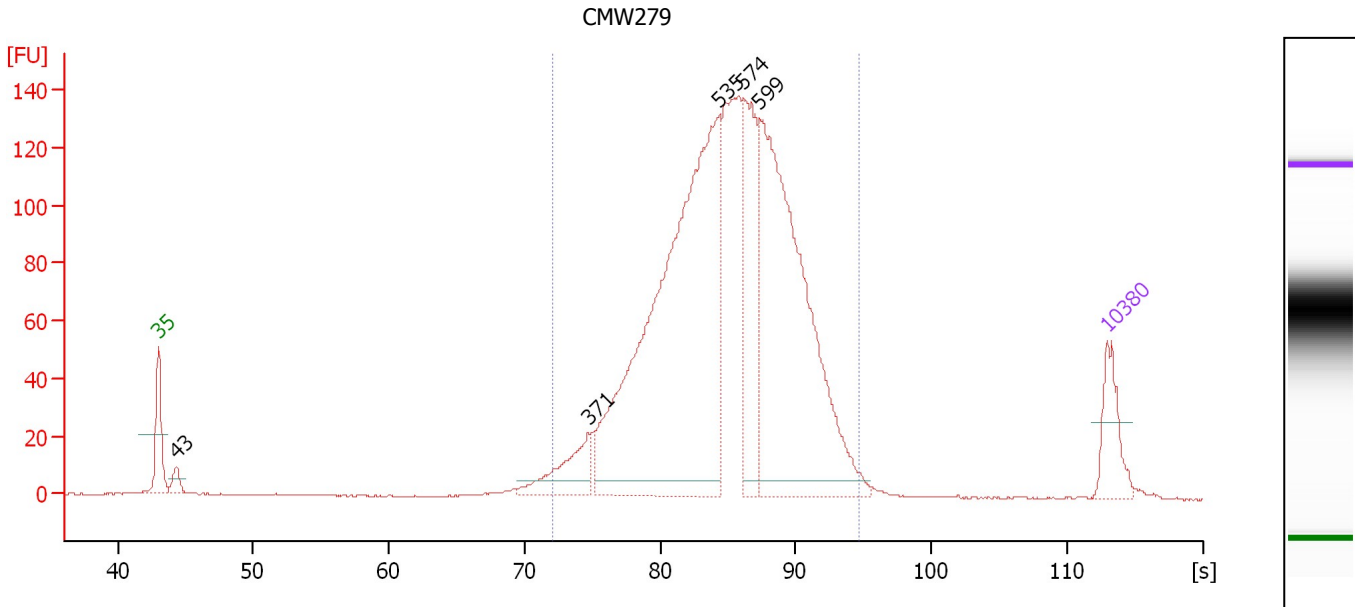
Region table for sample 2 : CMW154

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
71.62	94.62	547	10,039.0	3,437.63	■	2,727.9	98	20.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CMW279

Number of peaks found: 5 Corr. Area 1: 1,987.2
 Noise: 0.2

Peak table for sample 3 : CMW279

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	31.83	1,109.1	
3	371	122.56	500.7	
4	535	1,303.41	3,693.4	
5	574	276.58	730.4	
6	599	867.25	2,192.2	
7	10,380	75.00	10.9	Upper Marker

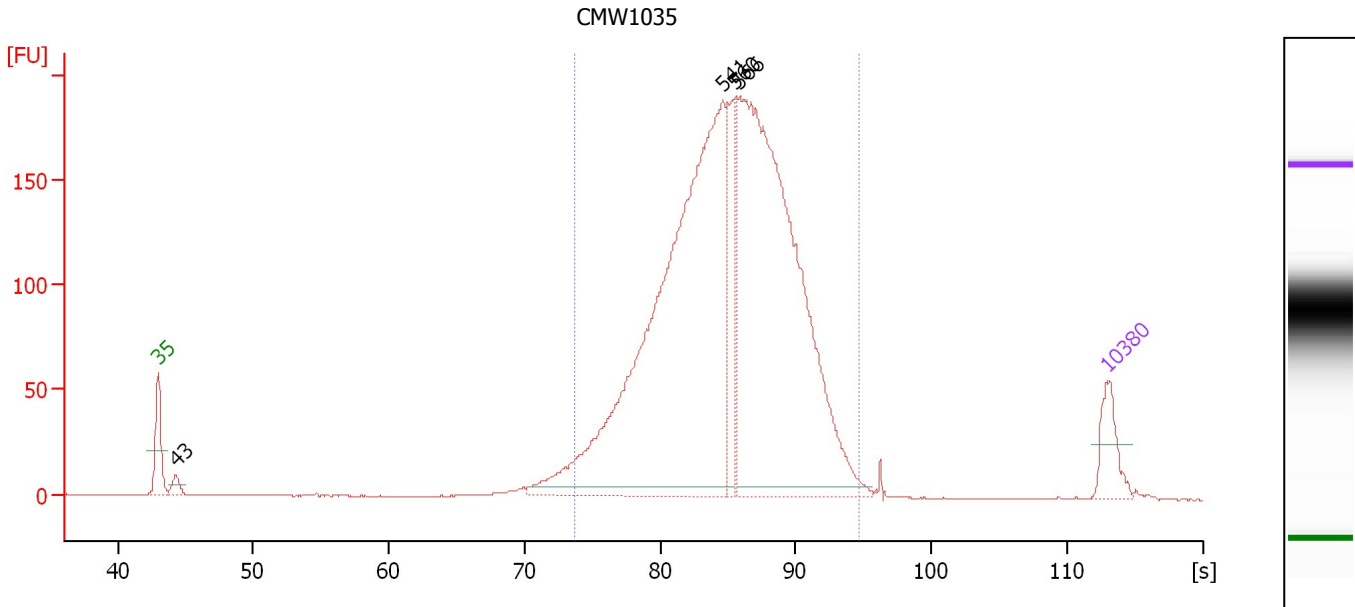
Region table for sample 3 : CMW279

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
72.09	94.62	560	8,731.7	3,058.64	■	1,987.2	97	20.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CMW1035

Number of peaks found: 4 Corr. Area 1: 2,622.5
 Noise: 0.2

Peak table for sample 4 : CMW1035

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	31.04	1,085.4	
3	541	1,867.96	5,230.9	
4	560	216.55	585.5	
5	566	1,641.54	4,393.0	
6	10,380	75.00	10.9	Upper Marker

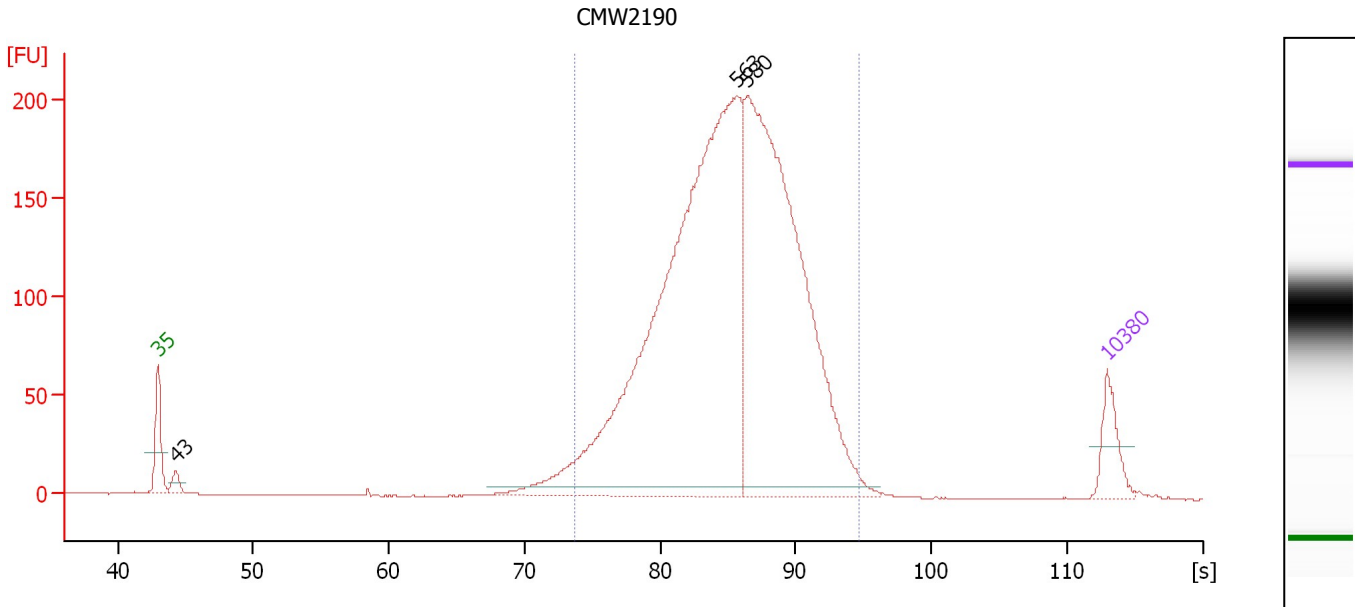
Region table for sample 4 : CMW1035

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
73.70	94.62	561	10,717.5	3,785.98	■	2,622.5	96	19.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CMW2190

Number of peaks found: 3 Corr. Area 1: 2,794.5
 Noise: 0.2

Peak table for sample 5 : CMW2190

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	36.17	1,270.7	
3	563	2,120.33	5,703.7	
4	580	1,510.50	3,946.9	
5	10,380	75.00	10.9	Upper Marker

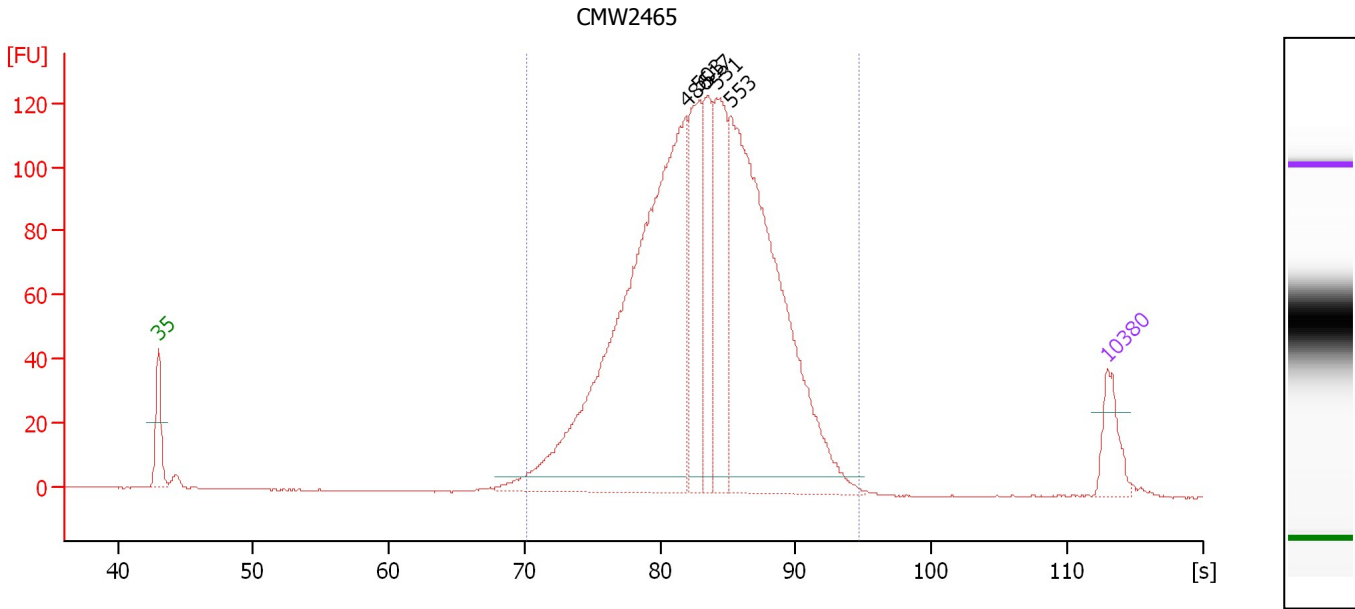
Region table for sample 5 : CMW2190

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
73.70	94.62	566	10,547.9	3,752.74	■	2,794.5	96	19.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CMW2465

Number of peaks found: 5 Corr. Area 1: 1,854.9
 Noise: 0.1

Peak table for sample 6 : CMW2465

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	486	1,680.08	5,236.5	
3	503	341.86	1,029.9	
4	517	236.95	694.7	
5	531	372.26	1,063.0	
6	553	1,264.23	3,461.7	
7	10,380	75.00	10.9	Upper Marker

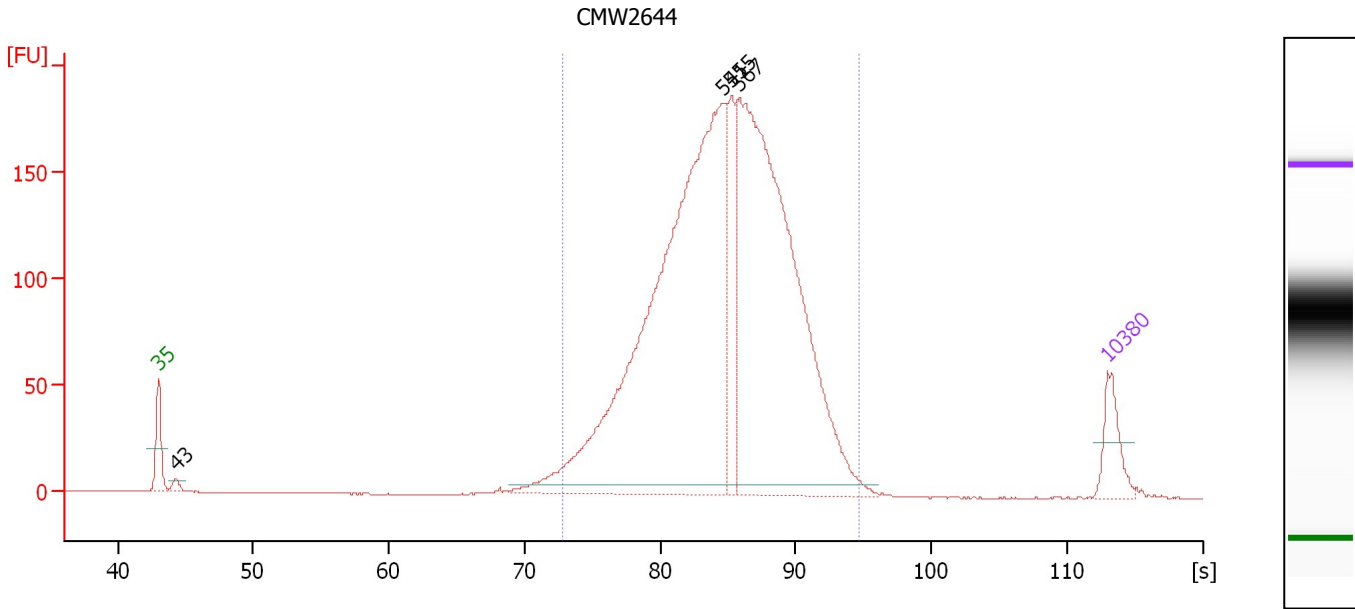
Region table for sample 6 : CMW2465

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
70.16	94.62	518	12,129.1	3,949.35	■	1,854.9	98	19.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CMW2644

Number of peaks found: 4 Corr. Area 1: 2,574.8
 Noise: 0.1

Peak table for sample 7 : CMW2644

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	20.70	723.4	
3	541	1,923.13	5,386.3	
4	555	190.19	519.2	
5	567	1,526.27	4,078.3	
6	10,380	75.00	10.9	Upper Marker

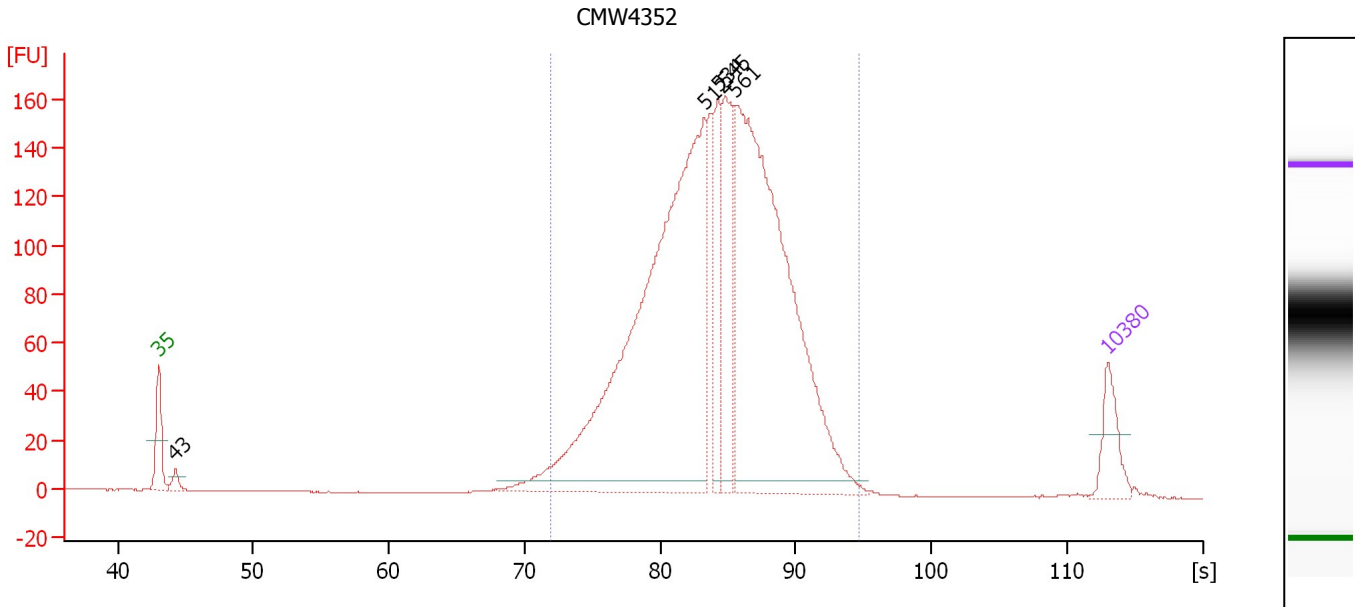
Region table for sample 7 : CMW2644

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
72.79	94.62	554	10,654.6	3,712.25	■	2,574.8	97	19.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CMW4352

Number of peaks found: 5 Corr. Area 1: 2,288.6
 Noise: 0.1

Peak table for sample 8 : CMW4352

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	26.47	936.5	
3	512	1,672.49	4,949.9	
4	534	202.61	574.7	
5	545	272.85	758.1	
6	561	1,351.26	3,652.6	
7	10,380	75.00	10.9	Upper Marker

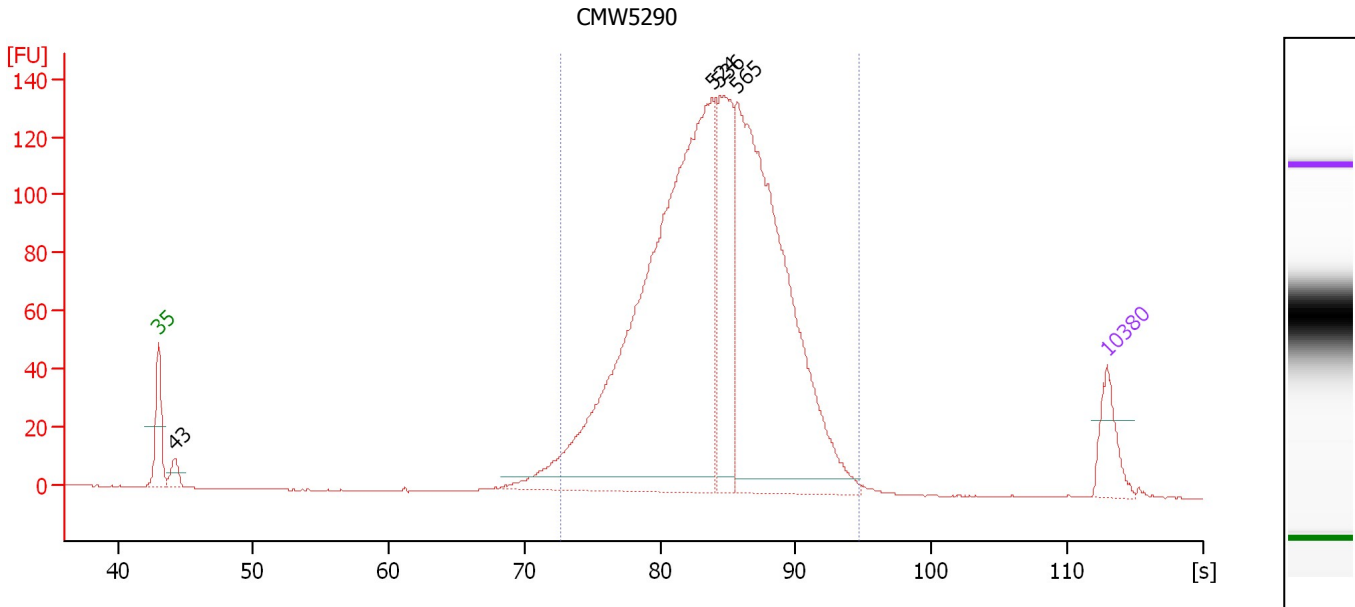
Region table for sample 8 : CMW4352

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
71.92	94.62	539	10,893.9	3,692.65	■	2,288.6	97	19.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CMW5290

Number of peaks found: 4 Corr. Area 1: 1,903.2
 Noise: 0.1

Peak table for sample 9 : CMW5290

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	43.45	1,535.6	
3	524	1,858.84	5,375.6	
4	536	371.03	1,048.5	
5	565	1,254.83	3,367.0	
6	10,380	75.00	10.9	Upper Marker

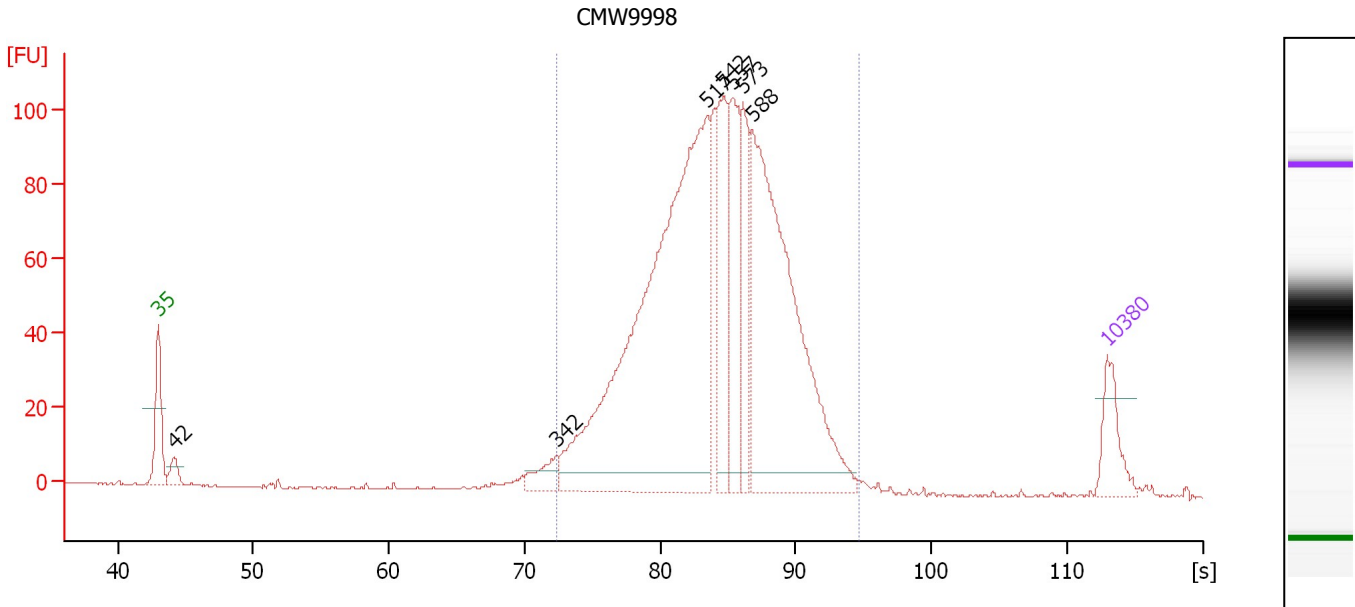
Region table for sample 9 : CMW5290

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
72.71	94.62	537	10,535.4	3,564.57	■	1,903.2	97	19.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CMW9998

Number of peaks found: 7 Corr. Area 1: 1,439.4
 Noise: 0.2

Peak table for sample 10 : CMW9998

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	42.04	1,504.0	
3	342	55.83	247.2	
4	517	1,527.78	4,480.6	
5	542	255.59	714.0	
6	557	222.86	606.4	
7	573	185.90	491.3	
8	588	889.61	2,293.3	
9	10,380	75.00	10.9	Upper Marker

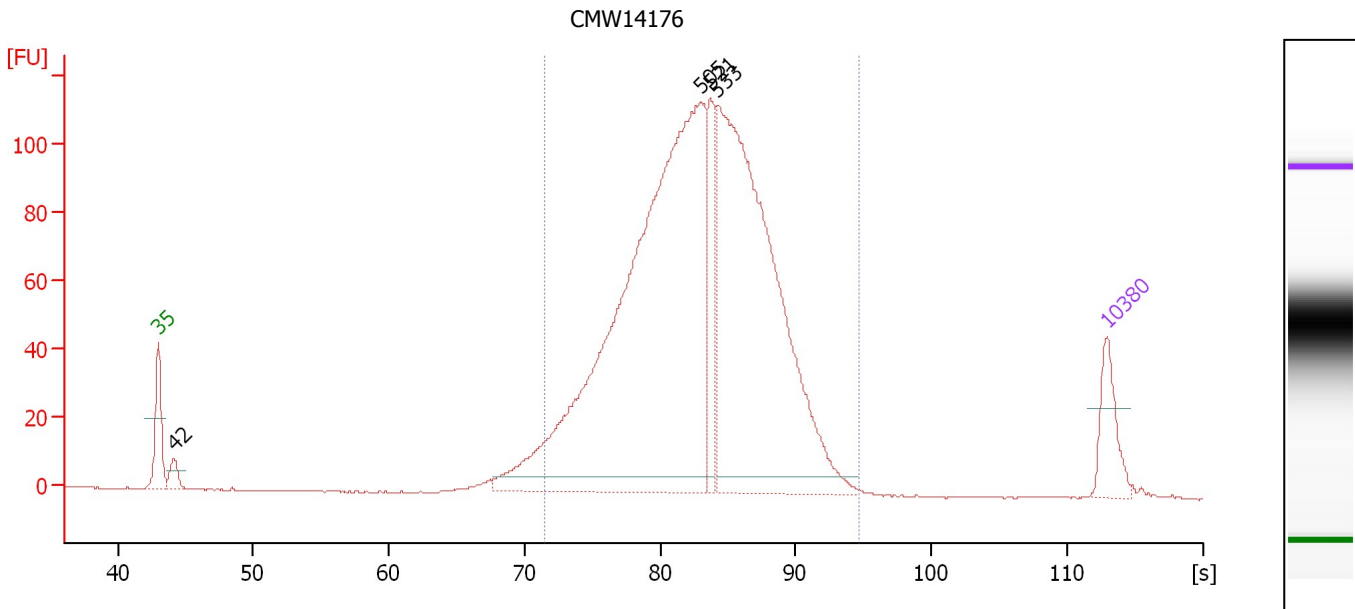
Region table for sample 10 : CMW9998

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
72.39	94.62	541	9,682.1	3,296.07	■	1,439.4	97	19.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
 Modified: 5/18/2014 3:50:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CMW14176

Number of peaks found: 4 Corr. Area 1: 1,687.3
 Noise: 0.1

Peak table for sample 11 : CMW14176

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	39.45	1,409.6	
3	505	1,779.45	5,339.0	
4	521	171.38	498.8	
5	533	1,210.86	3,442.0	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : CMW14176

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co lor	Corr. Area	% of Total	Size distribution in CV [%]
71.52	94.62	514	9,800.4	3,167.22	■	1,687.3	95	19.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_001.xad

Created: 5/18/2014 3:04:33 PM
Modified: 5/18/2014 3:50:56 PM

Gel Image

