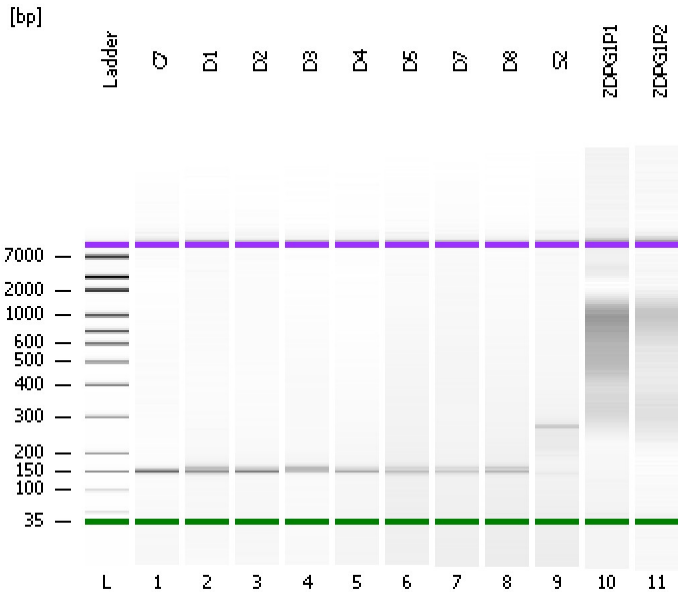


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
Modified: 7/13/2017 10:42:11 AM

Electrophoresis File Run Summary



Instrument Information:

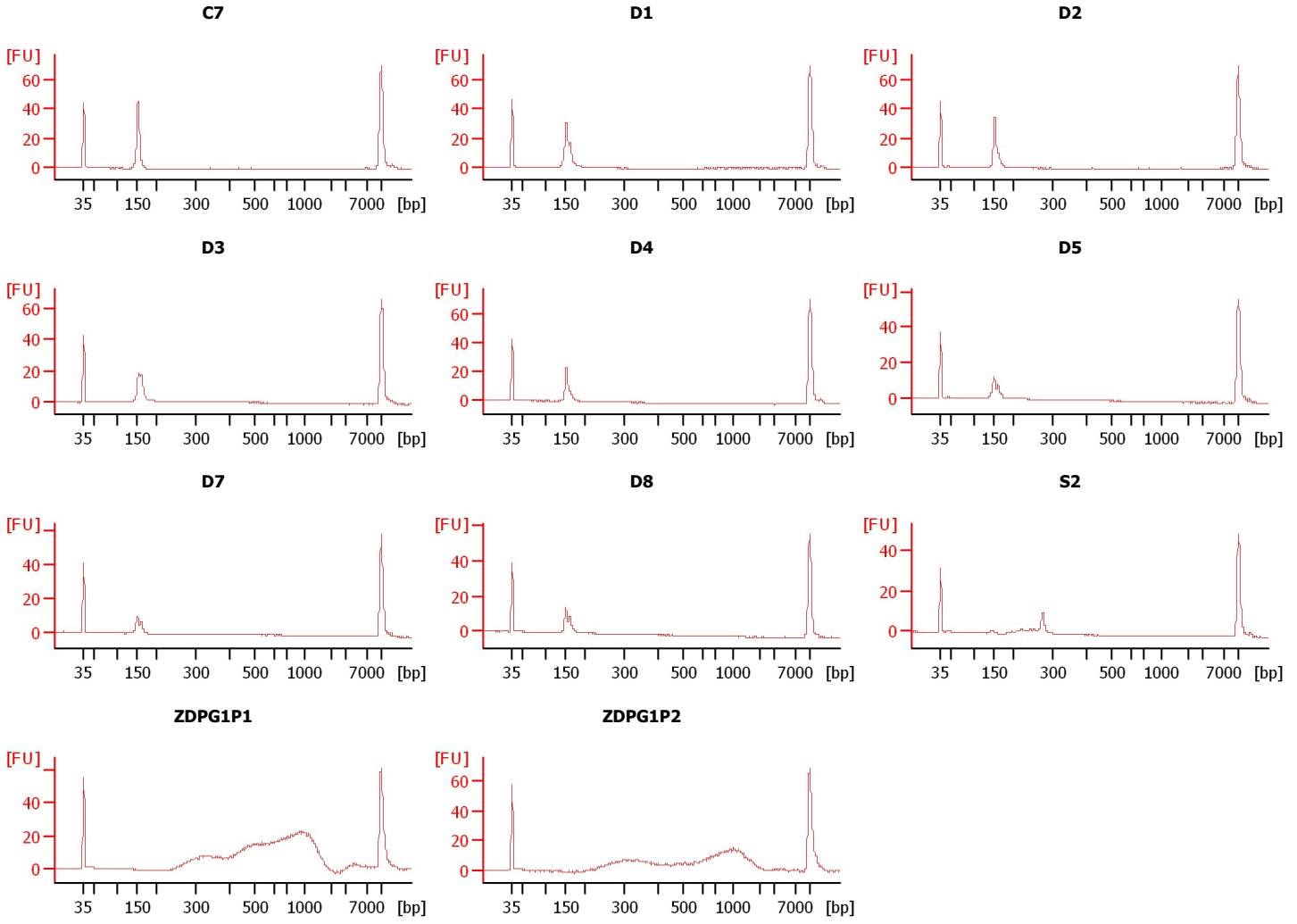
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
Modified: 7/13/2017 10:42:11 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C7		<input type="checkbox"/>	✓			
D1		<input type="checkbox"/>	✓			
D2		<input type="checkbox"/>	✓			
D3		<input type="checkbox"/>	✓			
D4		<input type="checkbox"/>	✓			
D5		<input type="checkbox"/>	✓			
D7		<input type="checkbox"/>	✓			
D8		<input type="checkbox"/>	✓			
S2		<input type="checkbox"/>	✓			
ZDPG1P1		<input type="checkbox"/>	✓			
ZDPG1P2		<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\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
Modified: 7/13/2017 10:42:11 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

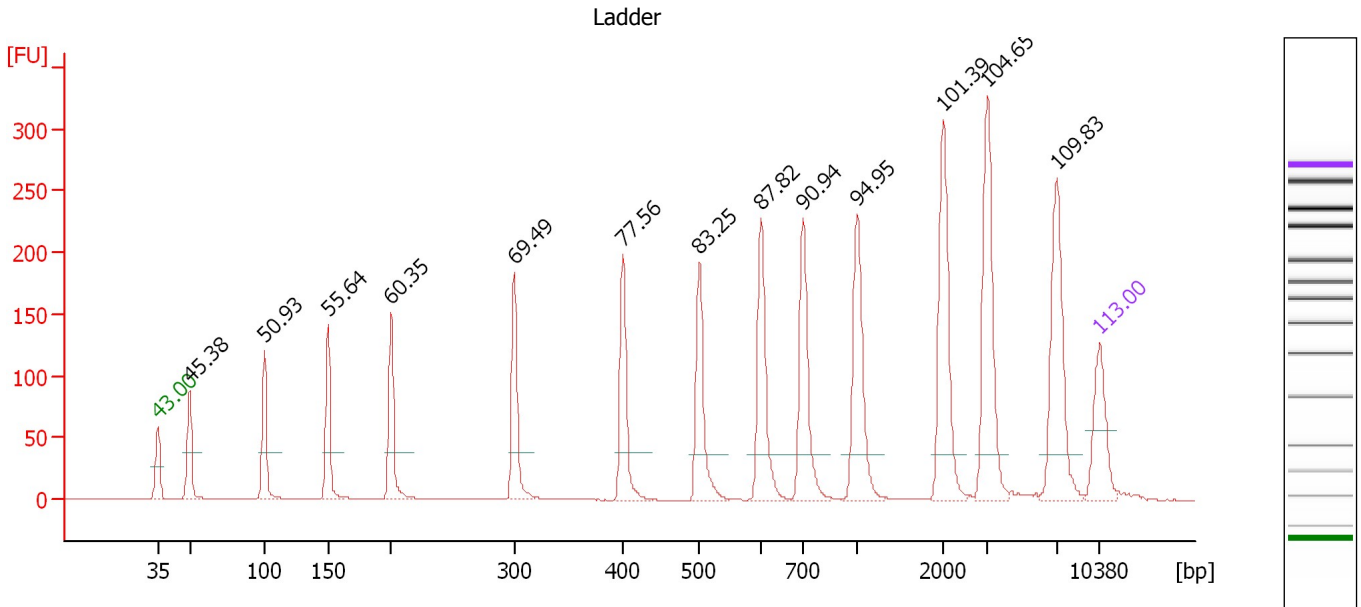
Ladder

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\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

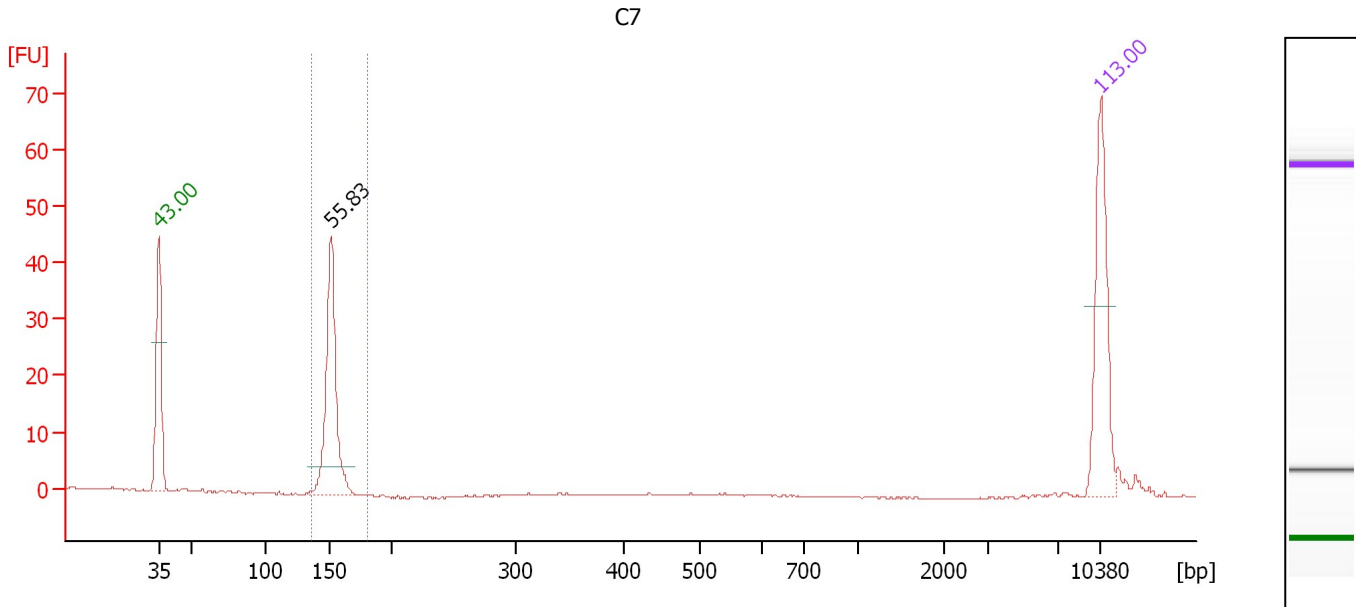
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	50.93
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.35
6	300	150.00	757.6	Ladder Peak	69.49
7	400	150.00	568.2	Ladder Peak	77.56
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	87.82
10	700	150.00	324.7	Ladder Peak	90.94
11	1,000	150.00	227.3	Ladder Peak	94.95
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.65
14	7,000	150.00	32.5	Ladder Peak	109.83
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : C7

Number of peaks found: 1 Corr. Area 1: 67.6
 Noise: 0.2

Peak table for sample 1 : C7

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	152	163.02	1,624.6		55.83
3	10,380	75.00	10.9	Upper Marker	113.00

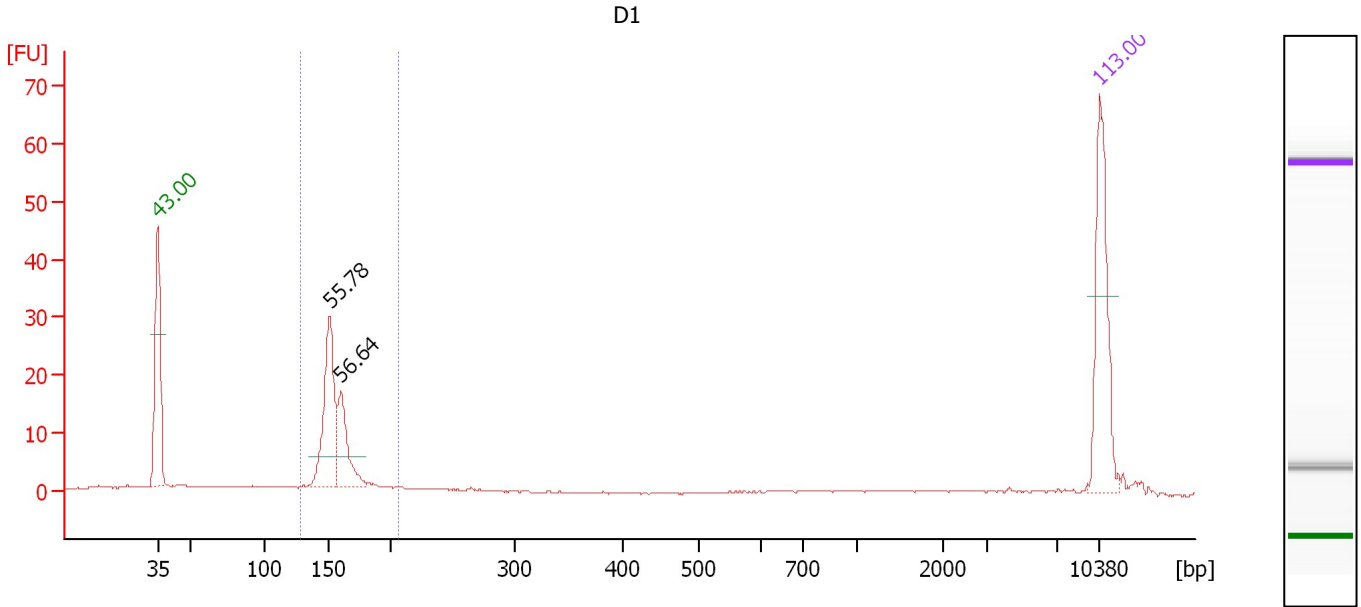
Region table for sample 1 : C7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
137	181	152	67.6	1,525.5	152.97	84	2.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : D1

Number of peaks found: 2 Corr. Area 1: 87.6
 Noise: 0.1

Peak table for sample 2 : D1

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	152	118.19	1,181.7		55.78
3	161	59.91	565.1		56.64
4	10,380	75.00	10.9	Upper Marker	113.00

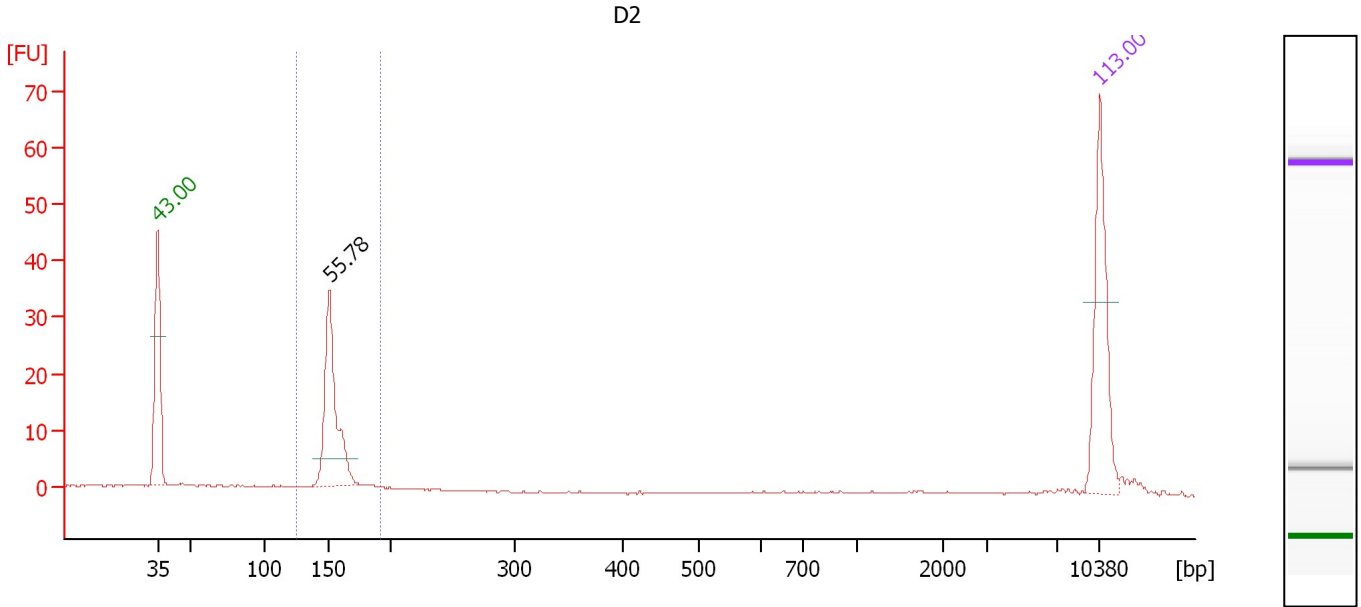
Region table for sample 2 : D1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	206	157	87.6	2,036.9	210.23	56	7.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : D2

Number of peaks found: 1 Corr. Area 1: 69.4
 Noise: 0.1

Peak table for sample 3 : D2

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	151	148.13	1,482.0		55.78
3	10,380	75.00	10.9	Upper Marker	113.00

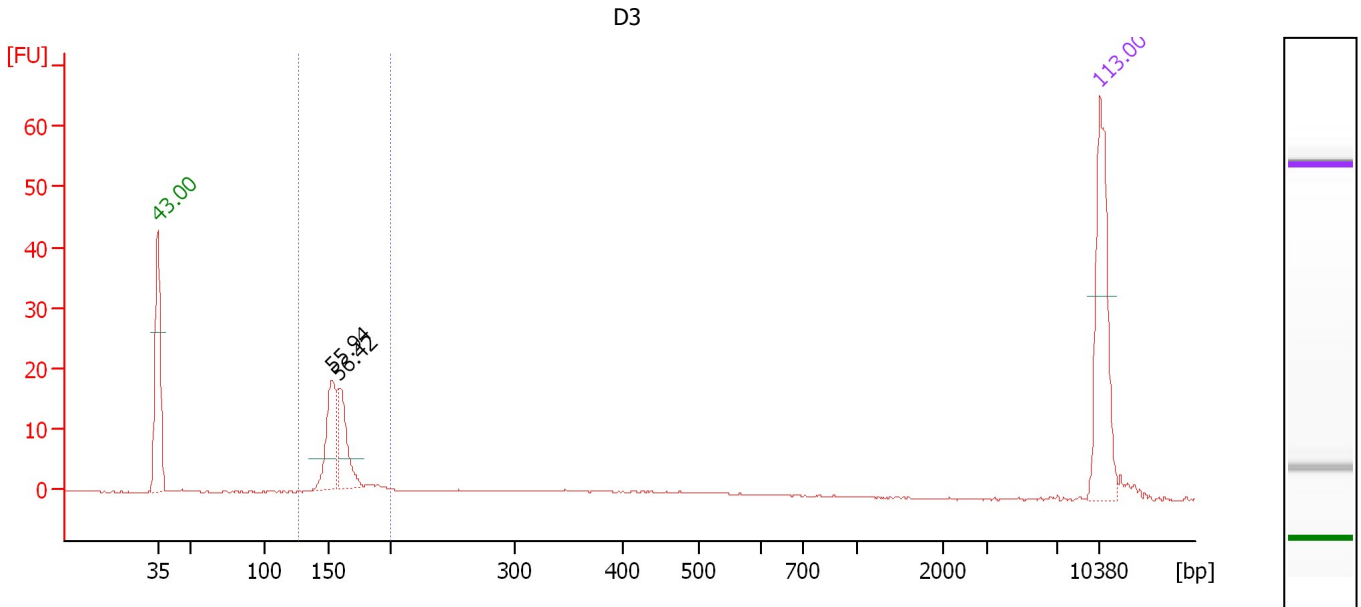
Region table for sample 3 : D2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
126	191	154	69.4	1,601.4	162.96	65	5.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : D3

Number of peaks found: 2 Corr. Area 1: 60.7
 Noise: 0.1

Peak table for sample 4 : D3

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	153	68.54	677.9		55.94
3	158	57.75	552.8		56.42
4	10,380	75.00	10.9	Upper Marker	113.00

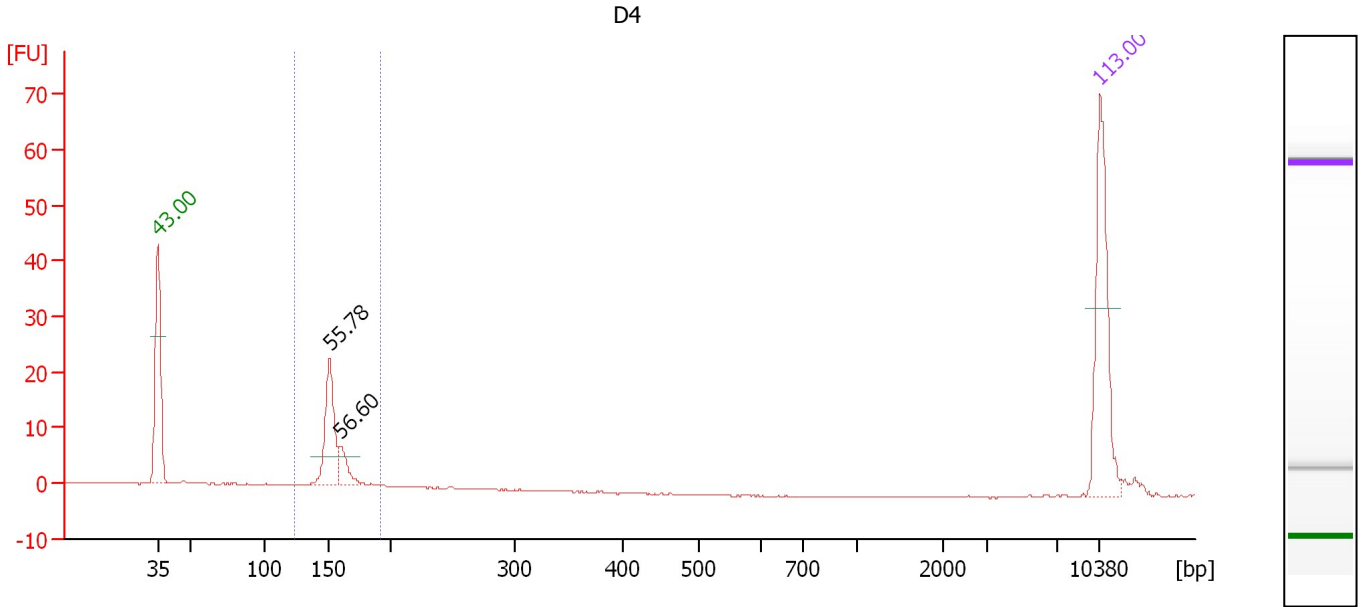
Region table for sample 4 : D3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
126	200	159	60.7	1,386.3	145.56	77	6.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : D4

Number of peaks found: 2 Corr. Area 1: 47.5
 Noise: 0.1

Peak table for sample 5 : D4

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	151	77.55	775.8		55.78
3	160	19.37	183.2		56.60
4	10,380	75.00	10.9	Upper Marker	113.00

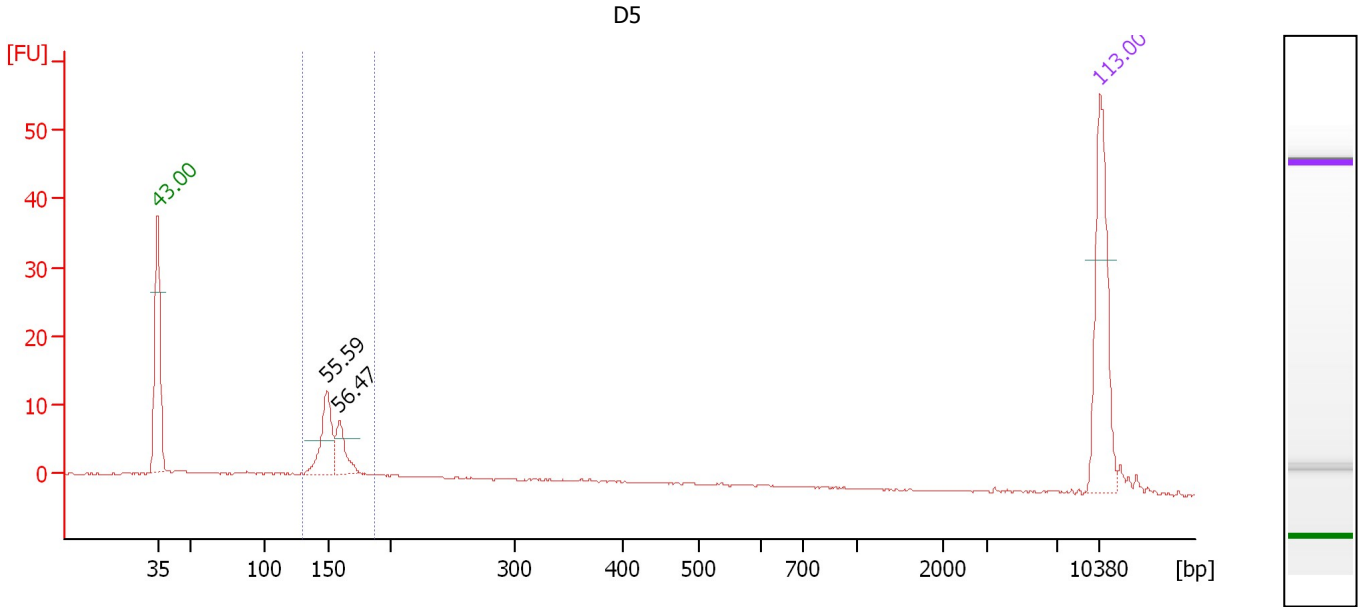
Region table for sample 5 : D4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
124	192	155	47.5	1,075.3	109.68	72	5.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : D5

Number of peaks found: 2 Corr. Area 1: 38.6
 Noise: 0.1

Peak table for sample 6 : D5

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	150	54.63	553.5		55.59
3	159	32.10	306.2		56.47
4	10,380	75.00	10.9	Upper Marker	113.00

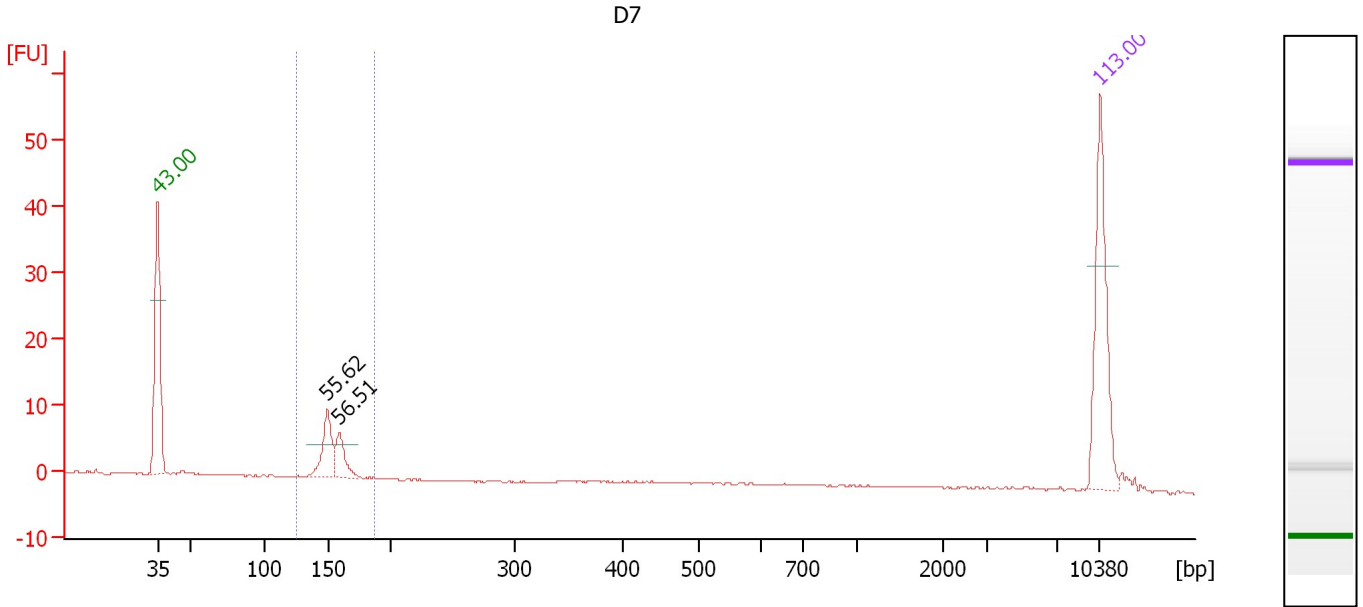
Region table for sample 6 : D5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	187	154	38.6	1,037.8	105.21	52	6.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : D7

Number of peaks found: 2 Corr. Area 1: 25.0
 Noise: 0.1

Peak table for sample 7 : D7

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	150	47.11	476.4		55.62
3	159	28.46	270.8		56.51
4	10,380	75.00	10.9	Upper Marker	113.00

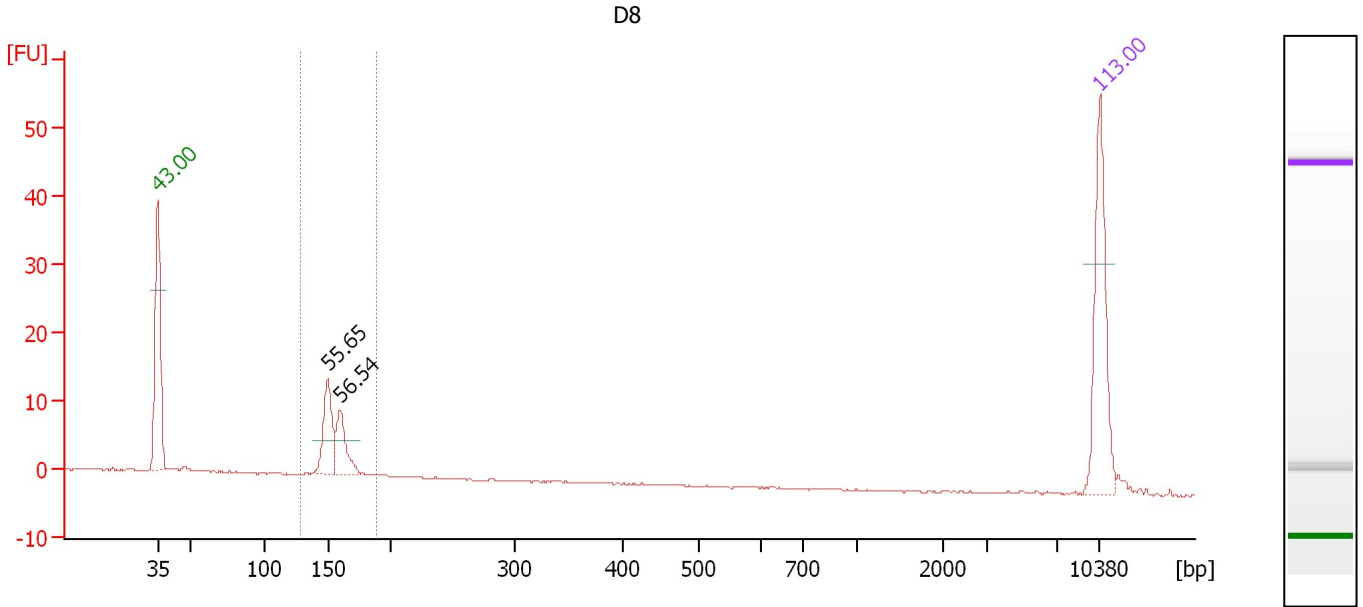
Region table for sample 7 : D7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
126	186	154	25.0	742.7	75.14	60	4.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : D8

Number of peaks found: 2 Corr. Area 1: 34.5
 Noise: 0.1

Peak table for sample 8 : D8

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	150	57.46	580.0		55.65
3	160	41.21	391.4		56.54
4	10,380	75.00	10.9	Upper Marker	113.00

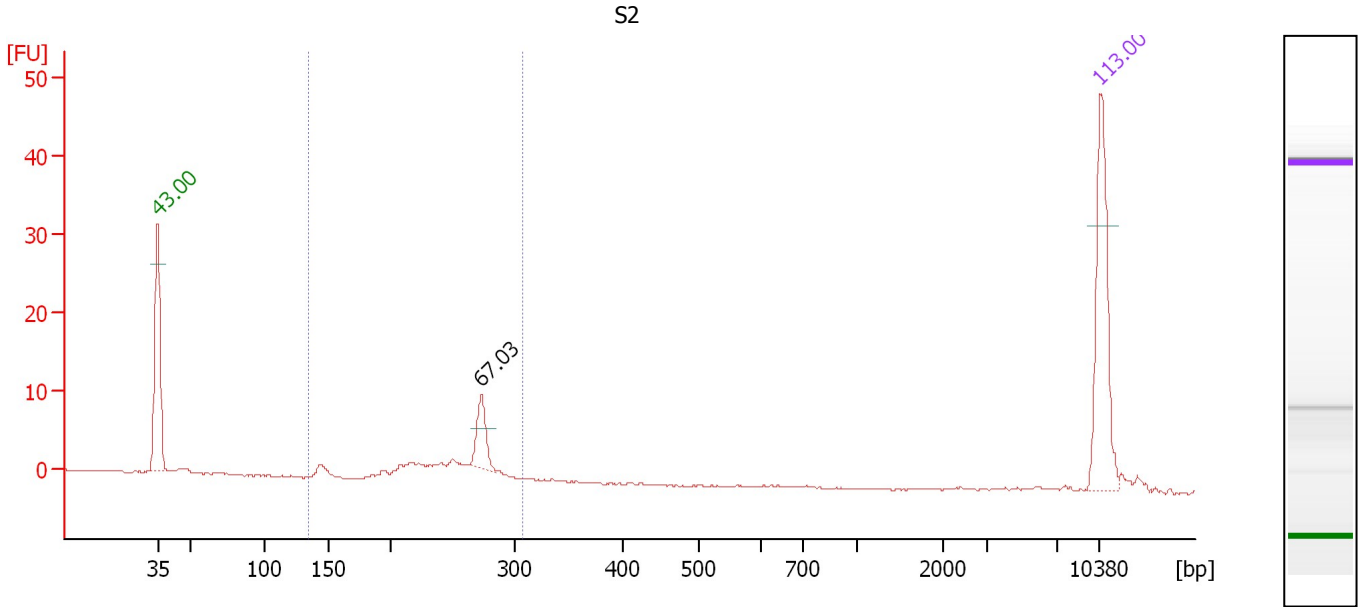
Region table for sample 8 : D8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
128	189	155	34.5	1,010.9	103.36	82	5.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : S2

Number of peaks found: 1 Corr. Area 1: 34.0
 Noise: 0.1

Peak table for sample 9 : S2

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	31.12	172.6		67.03
3	10,380	75.00	10.9	Upper Marker	113.00

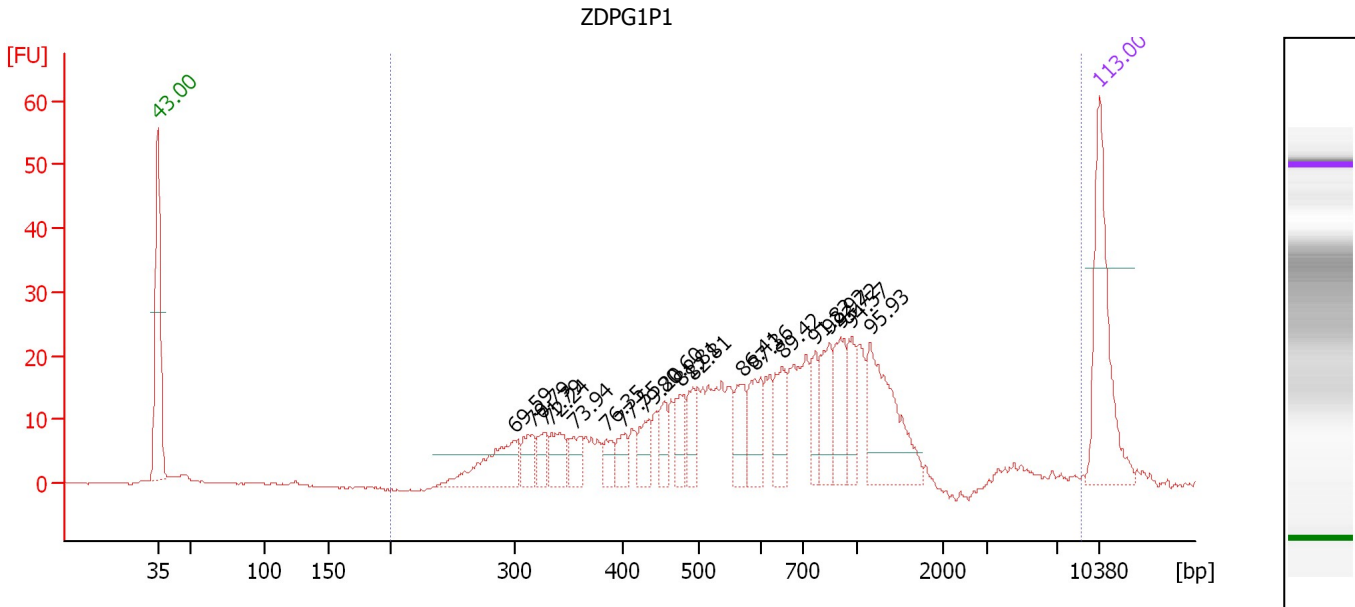
Region table for sample 9 : S2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
134	308	249	34.0	620.1	99.14	80	13.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : ZDPG1P1

Number of peaks found: 19 Corr. Area 1: 480.9
 Noise: 0.1

Peak table for sample 10 : ZDPG1P1

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	59.88	301.2		69.59
3	316	18.63	89.3		70.79
4	329	15.06	69.4		71.79
5	334	27.37	124.1		72.24
6	355	18.52	79.0		73.94
7	385	13.61	53.5		76.35
8	400	16.09	60.9		77.55
9	429	19.70	69.6		79.20
10	454	16.45	55.0		80.60
11	475	22.33	71.3		81.81
12	492	24.66	75.9		82.81
13	569	25.94	69.0		86.41
14	590	31.84	81.8		87.36
15	651	28.58	66.5		89.42
16	766	23.03	45.6		91.82
17	848	33.02	59.0		92.92
18	908	36.93	61.6		93.72
19	972	21.24	33.1		94.57
20	1,151	75.57	99.5		95.93
21	10,380	75.00	10.9	Upper Marker	113.00

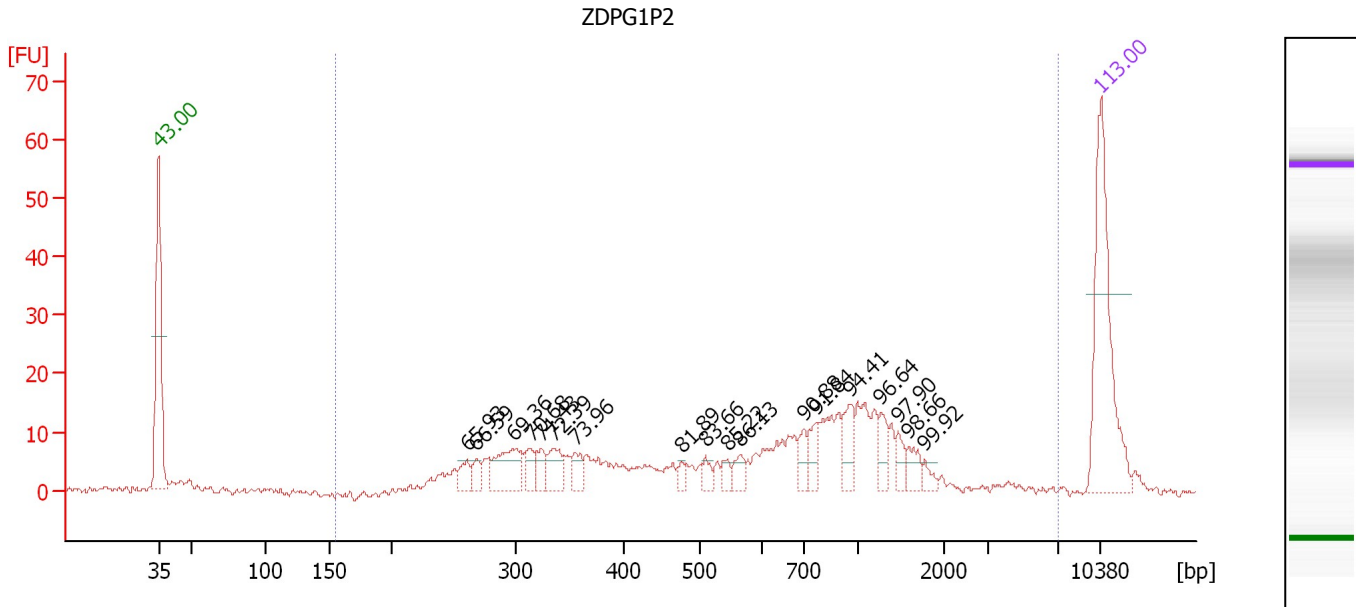
Region table for sample 10 : ZDPG1P1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	8,922	791	480.9	2,104.2	742.41	98	96.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
 Modified: 7/13/2017 10:42:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : ZDPG1P2

Number of peaks found: 18 Corr. Area 1: 285.0
 Noise: 0.6

Peak table for sample 11 : ZDPG1P2

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	261	10.27	59.6		65.93
3	268	8.45	47.7		66.59
4	299	32.25	163.7		69.36
5	315	12.64	60.9		70.68
6	324	9.98	46.7		71.43
7	336	17.37	78.3		72.39
8	355	10.19	43.4		73.96
9	476	5.04	16.0		81.89
10	509	6.99	20.8		83.66
11	543	5.83	16.3		85.22
12	563	8.72	23.5		86.13
13	698	10.16	22.1		90.88
14	767	10.95	21.6		91.84
15	960	15.95	25.2		94.41
16	1,262	10.98	13.2		96.64
17	1,458	6.92	7.2		97.90
18	1,576	8.60	8.3		98.66
19	1,772	4.12	3.5		99.92
20	10,380	75.00	10.9	Upper Marker	113.00

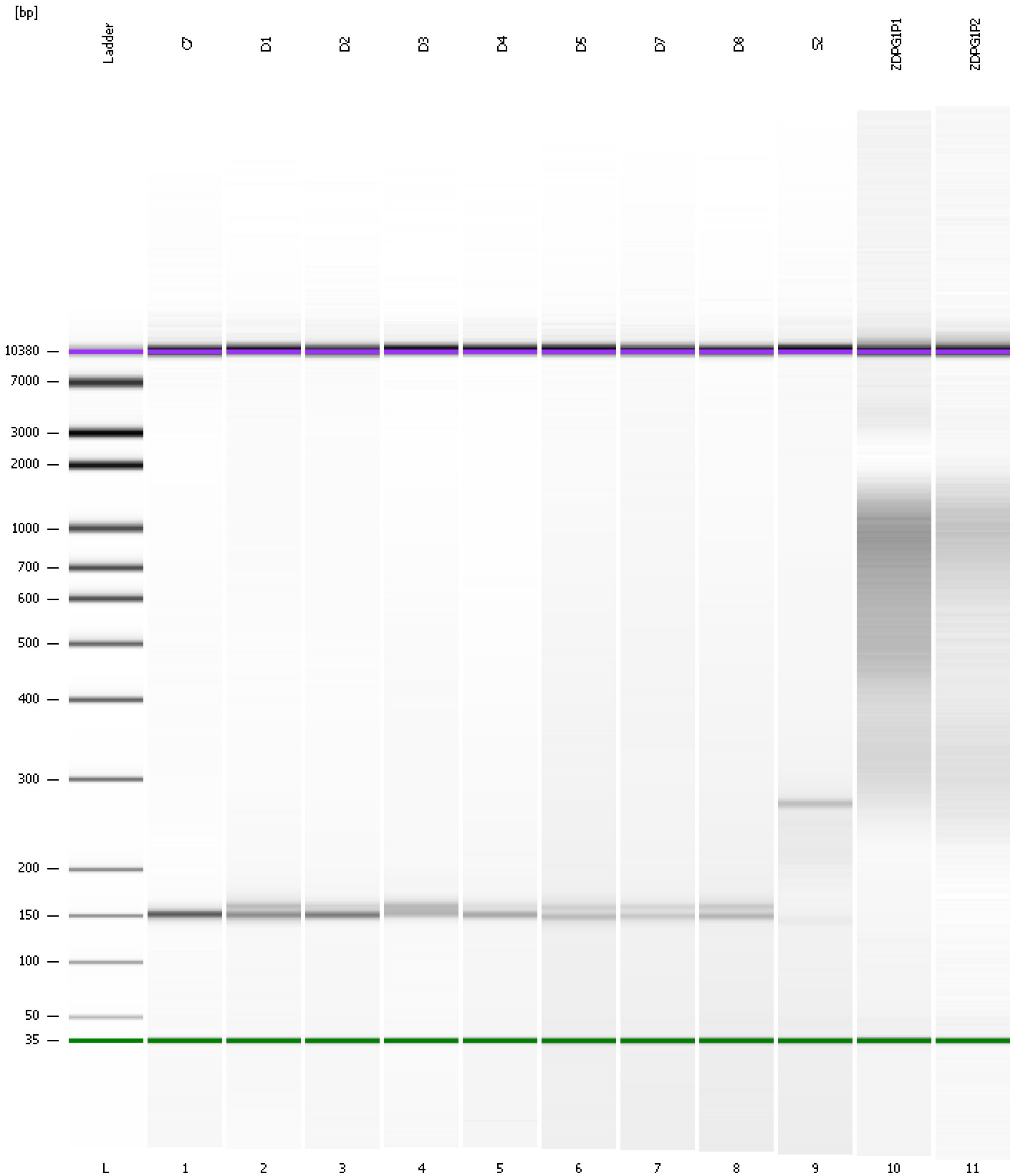
Region table for sample 11 : ZDPG1P2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
156	6,948	733	285.0	1,256.1	388.61	95	63.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
Modified: 7/13/2017 10:42:11 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-12\2017-07-12_003.xad

Created: 7/12/2017 5:01:54 PM
Modified: 7/13/2017 10:42:11 AM

Curves

Standard Curve

