

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
Modified: 6/1/2016 11:00:00 AM

Electrophoresis File Run Summary

Instrument Information:

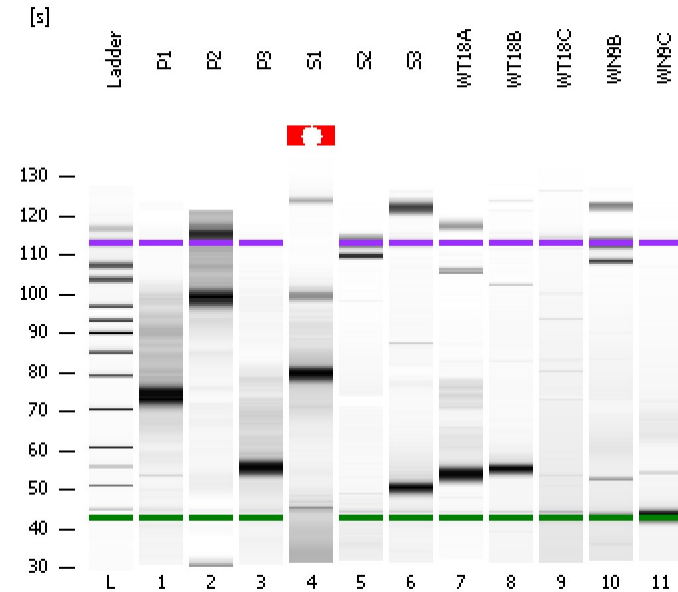
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:

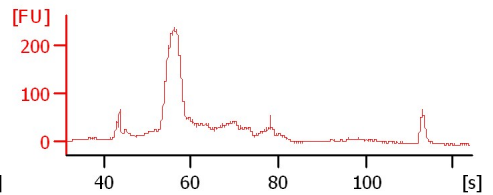
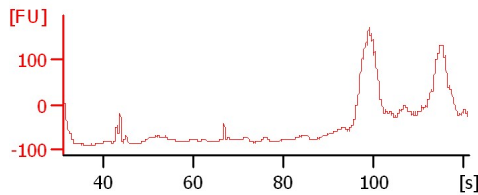
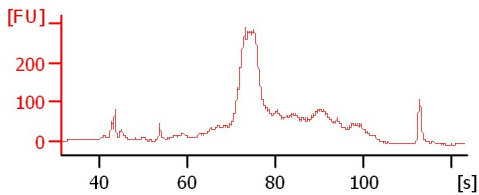
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



P1

P2

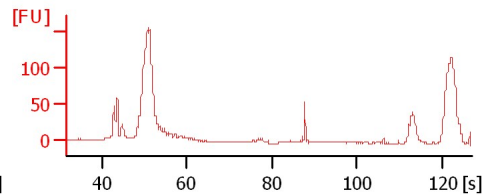
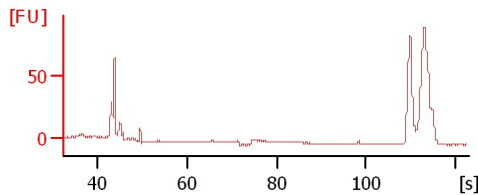
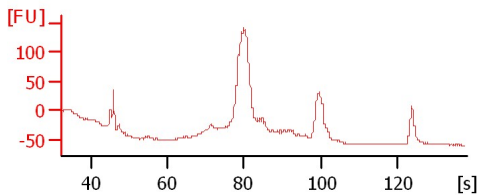
P3



S1

S2

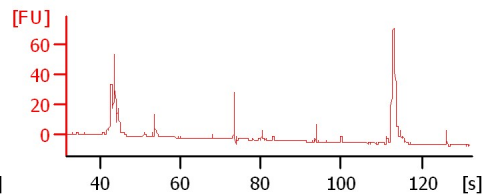
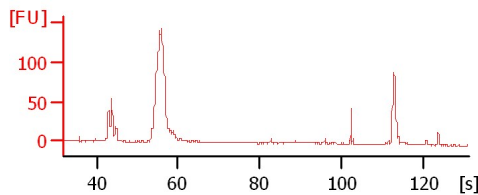
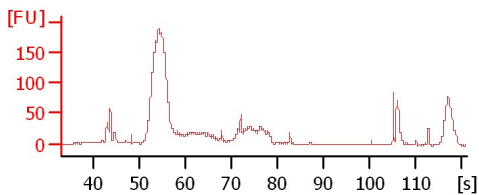
S3



WT18A

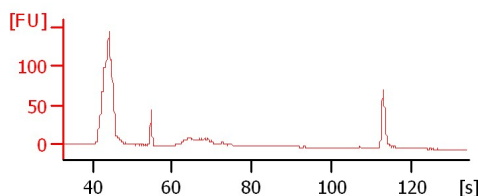
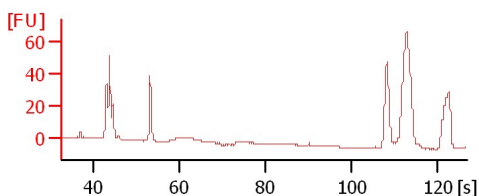
WT18B

WT18C



WN9B

WN9C



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 Modified: 6/1/2016 11:00:00 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P1		<input type="checkbox"/>	✓			
P2		<input type="checkbox"/>	✓			
P3		<input type="checkbox"/>	✓			
S1		<input type="checkbox"/>	✓			
S2		<input type="checkbox"/>	✓			
S3		<input type="checkbox"/>	✓			
WT18A		<input type="checkbox"/>	✓			
WT18B		<input type="checkbox"/>	✓			
WT18C		<input type="checkbox"/>	✓			
WN9B		<input type="checkbox"/>	✓			
WN9C		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Created: 6/1/2016 10:16:46 AM
Modified: 6/1/2016 11:00:00 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

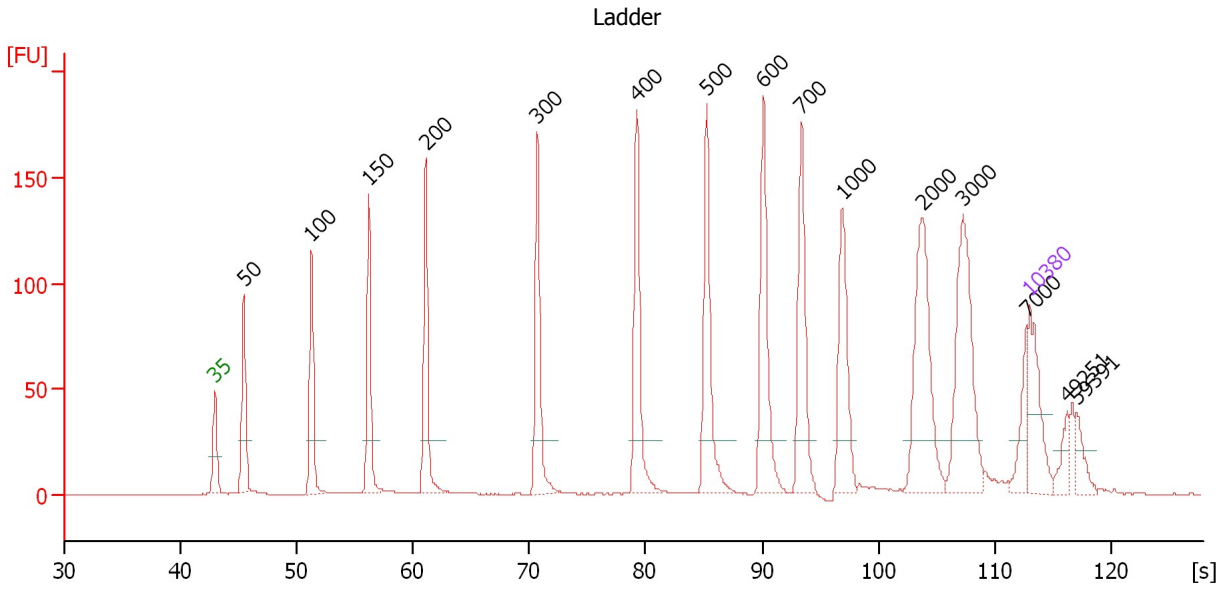
Ladder

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

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Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

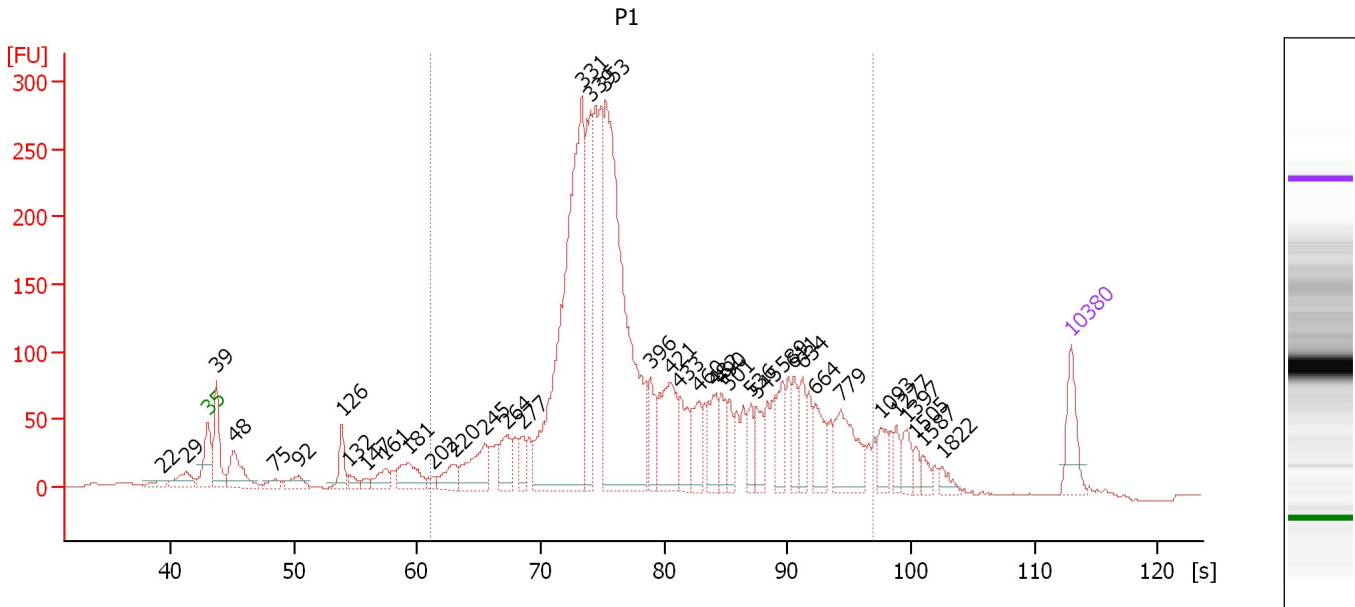
Peak table for Ladder

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	45.49
3	100	150.00	2,272.7	Ladder Peak	51.30
4	150	150.00	1,515.2	Ladder Peak	56.23
5	200	150.00	1,136.4	Ladder Peak	61.12
6	300	150.00	757.6	Ladder Peak	70.71
7	400	150.00	568.2	Ladder Peak	79.25
8	500	150.00	454.5	Ladder Peak	85.24
9	600	150.00	378.8	Ladder Peak	90.13
10	700	150.00	324.7	Ladder Peak	93.40
11	1,000	150.00	227.3	Ladder Peak	96.91
12	2,000	150.00	113.6	Ladder Peak	103.78
13	3,000	150.00	75.8	Ladder Peak	107.24
14	7,000	150.00	32.5	Ladder Peak	112.72
15	10,380	75.00	10.9	Upper Marker	113.00
16	49,251	0.00	0.0		116.18
17	59,391	0.00	0.0		117.01

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Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : P1

Number of peaks found: 39 Corr. Area 1: 3,954.5
 Noise: 0.7

Peak table for sample 1 : P1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	22	0.00	0.0		39.30
2	29	0.00	0.0		41.22
3	35	125.00	5,411.3	Lower Marker	43.00
4	39	184.41	7,128.5		43.70
5	48	142.92	4,525.6		45.13
6	75	25.07	503.7		48.44
7	92	47.64	785.6		50.36
8	126	77.40	929.5		53.88
9	132	25.00	286.2		54.49
10	147	16.78	173.1		55.93
11	161	55.74	524.1		57.32
12	181	100.39	841.6		59.24
13	202	18.99	142.7		61.28
14	220	61.45	423.5		63.02
15	245	134.80	834.4		65.42
16	264	92.00	528.3		67.25
17	277	49.15	268.8		68.51
18	331	1,071.82	4,909.2		73.34
19	339	277.40	1,239.9		74.04
20	353	1,015.43	4,355.3		75.26
21	396	87.44	334.9		78.87
22	421	192.85	693.5		80.52
23	433	92.39	323.3		81.22
24	460	94.44	311.2		82.83
25	482	99.84	314.1		84.14

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : P1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	490	65.45	202.2		84.66
27	501	51.01	154.4		85.27
28	536	50.28	142.1		87.01
29	545	62.86	174.7		87.45
30	589	82.45	212.2		89.58
31	611	65.30	161.9		90.49
32	634	59.65	142.6		91.23
33	664	81.69	186.3		92.24
34	779	145.66	283.3		94.32
35	1,093	45.22	62.7		97.55
36	1,277	29.13	34.6		98.81
37	1,397	39.02	42.3		99.64
38	1,505	19.25	19.4		100.38
39	1,587	19.13	18.3		100.94
40	1,822	19.55	16.3		102.55
41	10,380	75.00	10.9	Upper Marker	113.00

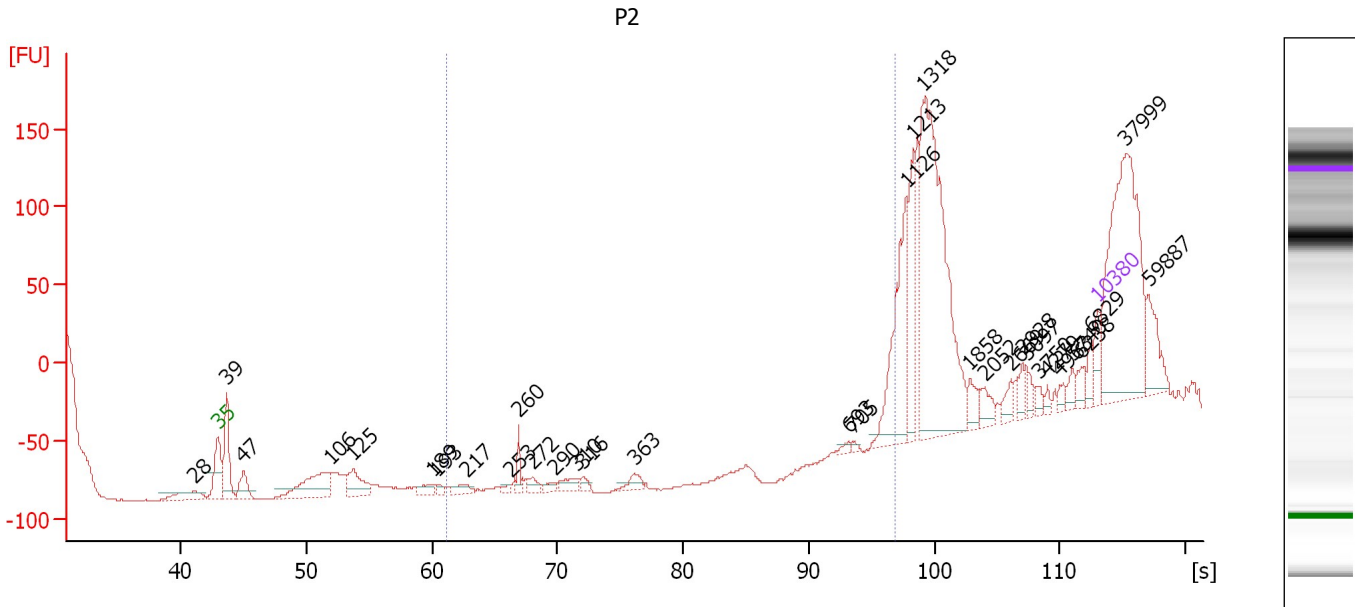
Region table for sample 1 : P1

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	423	3,954.5	19,752.2	4,837.15	84	34.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : P2

Number of peaks found: 33 Corr. Area 1: 21.9
 Noise: 0.4

Peak table for sample 2 : P2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.08
2	35	125.00	5,411.3	Lower Marker	43.00
3	39	428.54	16,601.5		43.68
4	47	159.34	5,128.3		45.00
5	106	425.65	6,070.9		51.92
6	125	237.05	2,877.5		53.75
7	189	65.71	526.4		60.06
8	193	34.06	267.3		60.45
9	217	68.42	476.8		62.79
10	253	25.76	154.0		66.25
11	260	69.68	405.9		66.89
12	272	60.02	334.2		68.04
13	290	38.18	199.2		69.79
14	310	74.52	364.6		71.54
15	316	36.92	177.2		72.05
16	363	62.63	261.3		76.10
17	693	23.68	51.8		93.16
18	705	13.50	29.0		93.46
19	1,126	558.66	751.8		97.77
20	1,213	312.17	390.0		98.37
21	1,318	1,532.23	1,761.0		99.09
22	1,858	65.53	53.4		102.80
23	2,052	72.75	53.7		103.96
24	2,669	55.58	31.6		106.09
25	2,928	44.83	23.2		106.99

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : P2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,097	39.93	19.5		107.37
27	3,750	28.30	11.4		108.27
28	4,279	20.41	7.2		108.99
29	4,963	29.84	9.1		109.93
30	5,740	42.13	11.1		111.00
31	6,238	48.10	11.7		111.68
32	6,829	51.09	11.3		112.49
33	10,380	75.00	10.9	Upper Marker	113.00
34	37,999	0.00	0.0		115.26
35	59,887	0.00	0.0		117.05

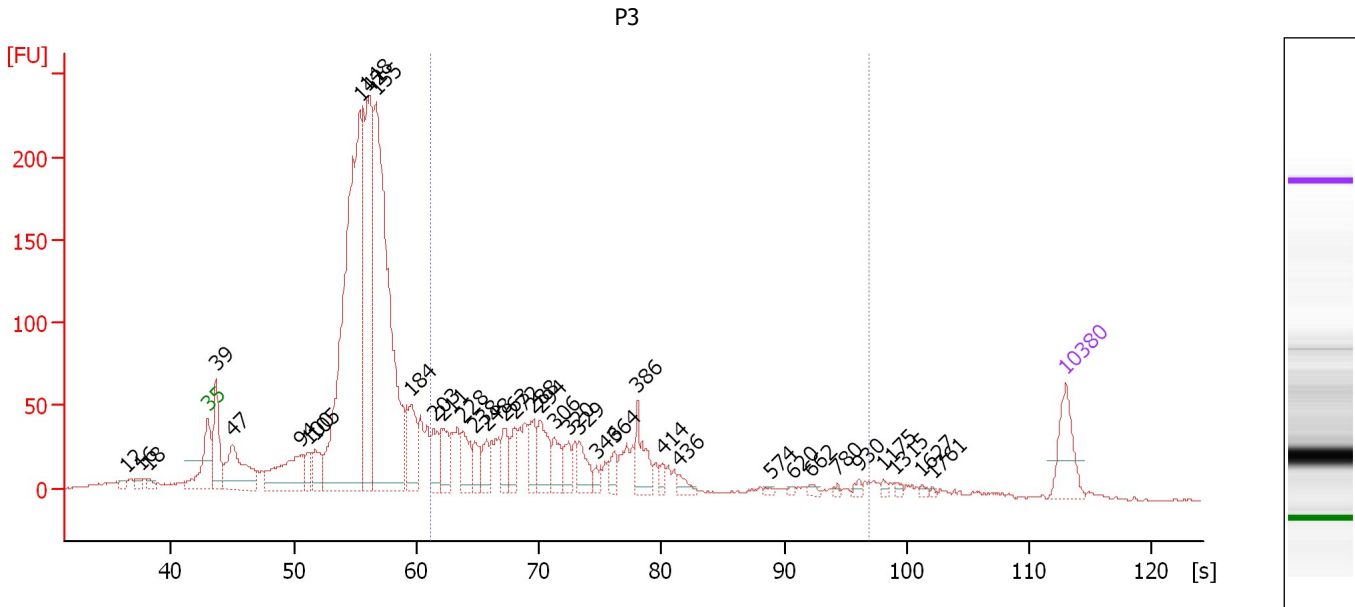
Region table for sample 2 : P2

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	976	21.9	102.7	66.14	2	1.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : P3

Number of peaks found: 38 Corr. Area 1: 966.8
 Noise: 0.6

Peak table for sample 3 : P3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	12	0.00	0.0		36.30
2	16	0.00	0.0		37.44
3	18	0.00	0.0		38.18
4	35	125.00	5,411.3	Lower Marker	43.00
5	39	174.09	6,725.1		43.70
6	47	216.80	6,968.5		45.02
7	94	209.93	3,378.0		50.62
8	100	50.38	764.8		51.28
9	105	79.00	1,143.7		51.76
10	142	1,397.30	14,960.9		55.40
11	148	625.18	6,412.2		56.01
12	155	1,144.12	11,193.2		56.71
13	184	146.84	1,206.2		59.60
14	203	75.64	563.7		61.44
15	211	84.34	605.4		62.19
16	228	86.52	575.0		63.81
17	238	50.57	321.9		64.77
18	248	50.66	309.4		65.73
19	263	59.79	344.2		67.18
20	272	53.04	295.6		68.01
21	288	70.15	369.3		69.55
22	294	94.13	485.5		70.12
23	306	59.40	293.8		71.25
24	320	44.59	211.4		72.39
25	329	62.87	289.6		73.18

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : P3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	346	18.29	80.0		74.67
27	364	32.12	133.7		76.16
28	386	79.67	312.8		78.04
29	414	16.71	61.2		80.06
30	436	18.98	65.9		81.42
31	574	5.61	14.8		88.86
32	620	5.25	12.8		90.79
33	662	8.94	20.5		92.15
34	780	4.36	8.5		94.34
35	930	8.44	13.8		96.09
36	1,175	6.16	7.9		98.11
37	1,315	6.68	7.7		99.07
38	1,627	5.25	4.9		101.22
39	1,761	2.71	2.3		102.14
40	10,380	75.00	10.9	Upper Marker	113.00

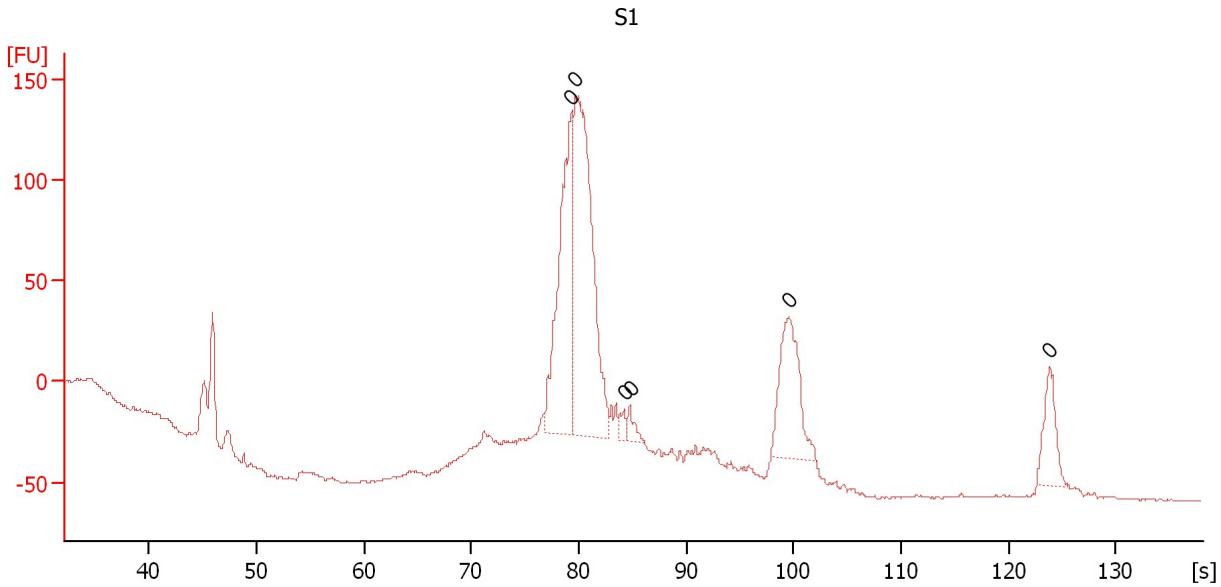
Region table for sample 3 : P3

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	334	966.8	7,313.3	1,409.92	28	40.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : S1

Number of peaks found: 0 Noise: 0.5

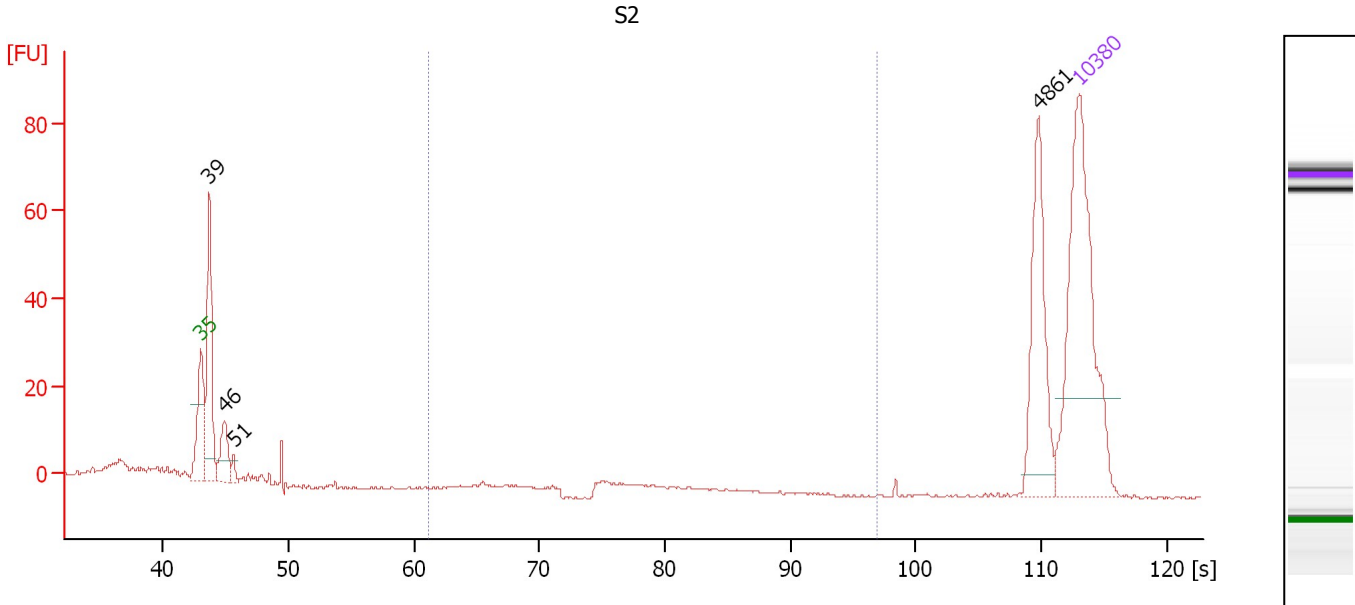
Peak table for sample 4 : S1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		79.30
2	0	0.00	0.0		79.70
3	0	0.00	0.0		84.20
4	0	0.00	0.0		84.75
5	0	0.00	0.0		99.55
6	0	0.00	0.0		123.85

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Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : S2

Number of peaks found: 4 Corr. Area 1: 3.0
 Noise: 0.2

Peak table for sample 5 : 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	39	64.40	2,493.7		43.69
3	46	20.51	670.4		44.88
4	51	4.13	122.6		45.61
5	4,861	41.78	13.0		109.79
6	10,380	75.00	10.9	Upper Marker	113.00

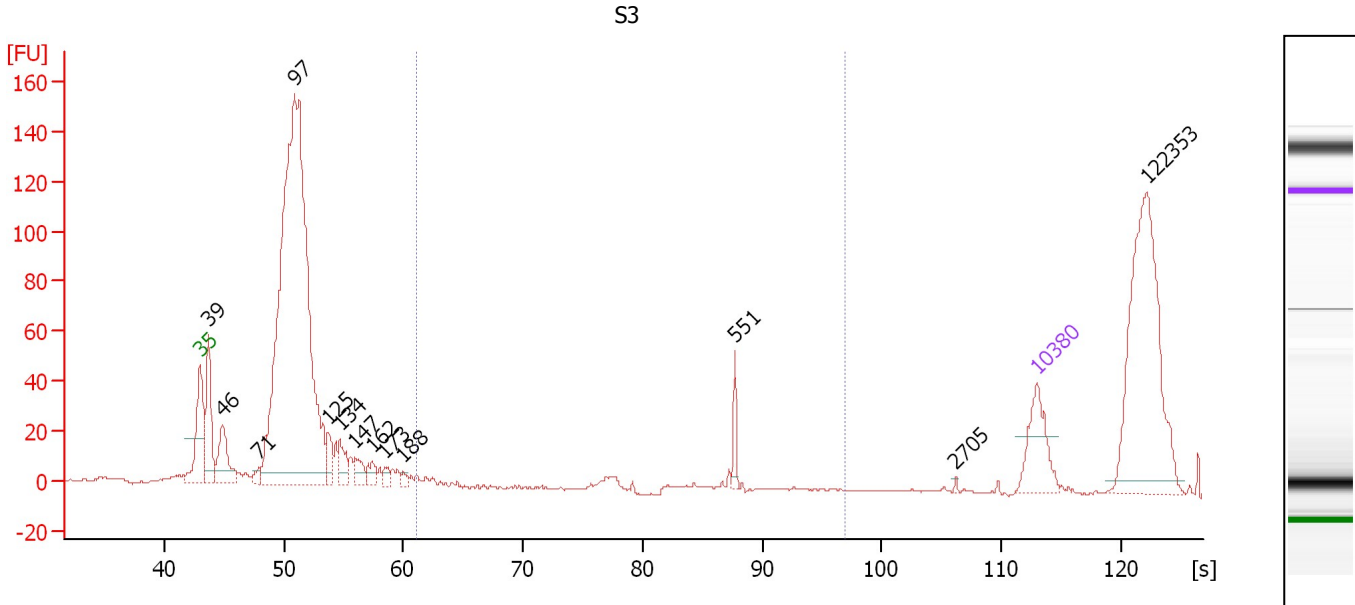
Region table for sample 5 : S2

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	364	3.0	7.6	1.81	1	7.2

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : S3

Number of peaks found: 13 Corr. Area 1: 41.8
 Noise: 0.3

Peak table for sample 6 : S3

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	39	170.73	6,622.7		43.67
3	46	120.94	3,951.9		44.89
4	71	21.26	455.5		47.90
5	97	1,967.71	30,856.9		50.91
6	125	47.26	574.2		53.74
7	134	55.75	629.1		54.68
8	147	37.99	391.5		55.94
9	162	30.03	281.4		57.38
10	173	17.81	155.8		58.50
11	188	10.61	85.3		59.98
12	551	26.67	73.3		87.75
13	2,705	1.77	1.0		106.22
14	10,380	75.00	10.9	Upper Marker	113.00
15	122,353	0.00	0.0		122.17

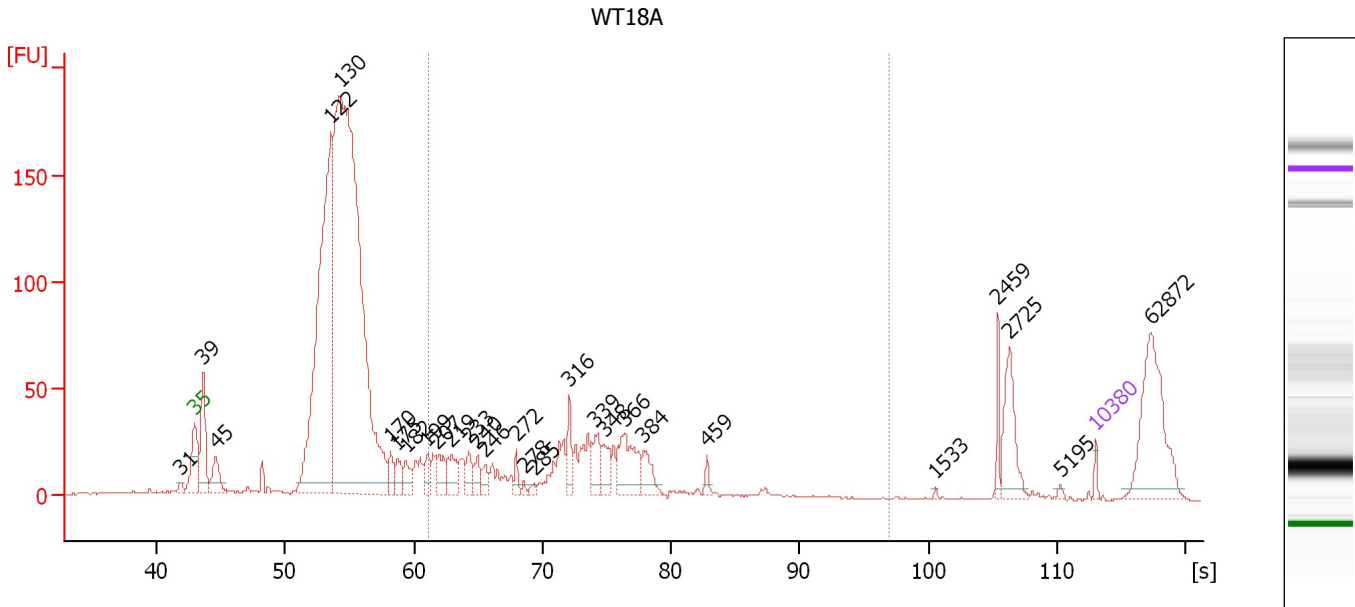
Region table for sample 6 : S3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	465	41.8	271.1	67.03	3	28.3

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WT18A

Number of peaks found: 28 Corr. Area 1: 513.6
 Noise: 0.2

Peak table for sample 7 : WT18A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.87
2	35	125.00	5,411.3	Lower Marker	43.00
3	39	1,428.14	55,813.1		43.63
4	45	650.80	22,010.2		44.63
5	122	9,585.75	118,642.8		53.51
6	130	19,574.73	228,098.3		54.26
7	170	343.83	3,065.4		58.18
8	175	362.54	3,137.6		58.69
9	182	322.90	2,683.4		59.39
10	199	333.92	2,537.4		61.06
11	207	431.44	3,154.8		61.81
12	219	513.87	3,556.0		62.94
13	233	324.62	2,112.1		64.28
14	240	279.01	1,762.7		64.94
15	246	211.36	1,299.9		65.57
16	272	172.70	963.5		67.99
17	278	60.41	329.6		68.57
18	285	78.64	417.4		69.32
19	316	430.24	2,059.9		72.12
20	339	456.87	2,039.3		74.08
21	348	388.72	1,693.6		74.79
22	366	980.22	4,054.2		76.37
23	384	393.97	1,554.8		77.87
24	459	118.25	390.1		82.80
25	1,533	18.31	18.1		100.57

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : WT18A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,459	205.37	126.5		105.37
27	2,725	745.06	414.3		106.28
28	5,195	33.63	9.8		110.25
29	10,380	75.00	10.9	Upper Marker	113.00
30	62,872	0.00	0.0		117.30

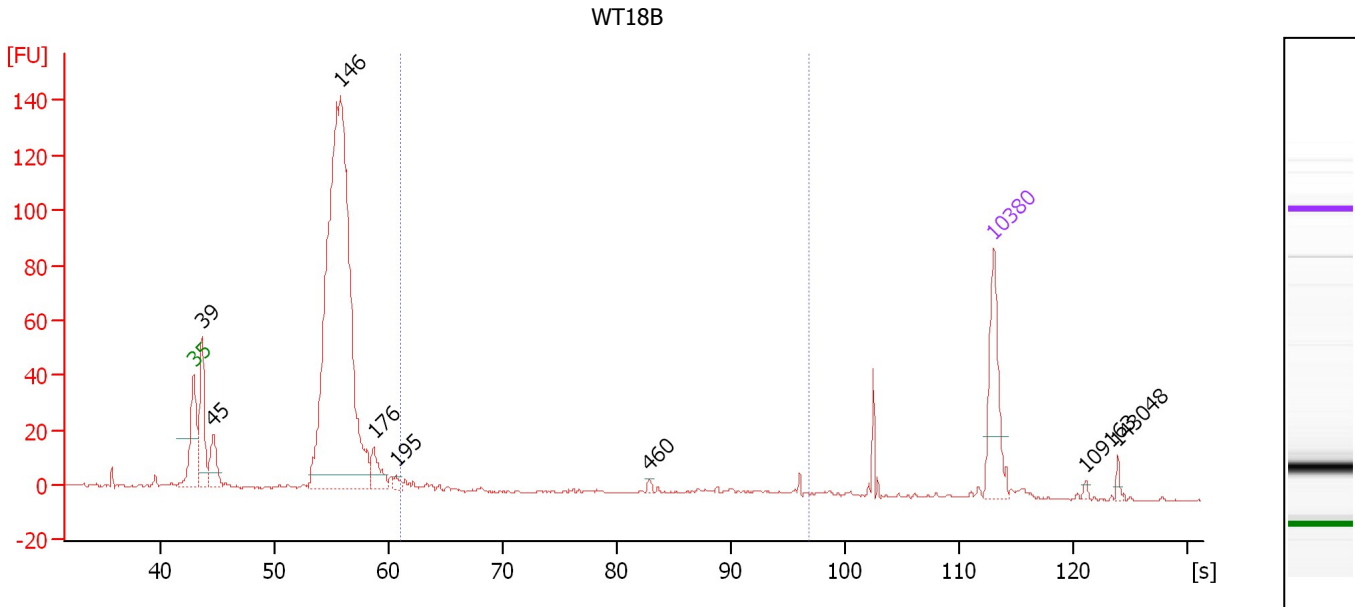
Region table for sample 7 : WT18A

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	321	513.6	43,957.8	8,545.43	22	26.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WT18B

Number of peaks found: 8 Corr. Area 1: 35.0
 Noise: 0.3

Peak table for sample 8 : WT18B

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	39	128.46	4,959.3		43.71
3	45	62.00	2,078.5		44.69
4	146	1,195.88	12,375.0		55.88
5	176	42.86	369.6		58.75
6	195	9.19	71.2		60.68
7	460	3.93	12.9		82.87
8	10,380	75.00	10.9	Upper Marker	113.00
9	109,163	0.00	0.0		121.09
10	143,048	0.00	0.0		123.86

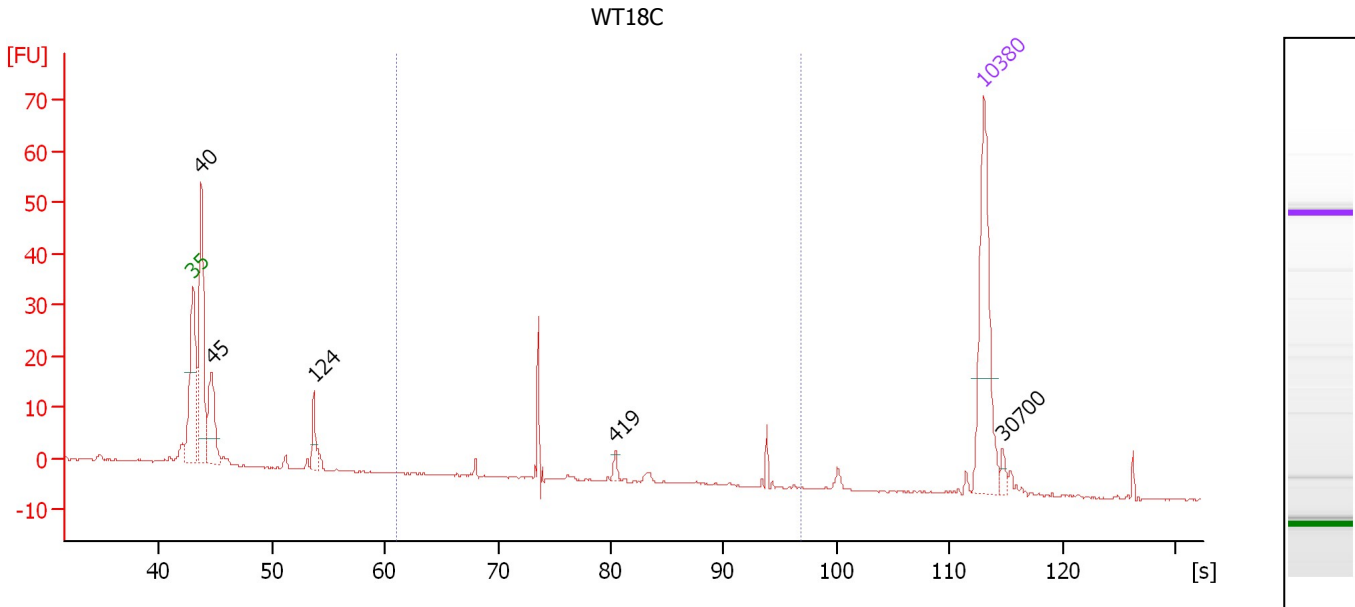
Region table for sample 8 : WT18B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	496	35.0	230.4	51.00	4	46.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WT18C

Number of peaks found: 5 Corr. Area 1: 16.1
 Noise: 0.1

Peak table for sample 9 : WT18C

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	139.00	5,321.0		43.76
3	45	63.24	2,128.5		44.66
4	124	19.43	237.0		53.69
5	419	4.12	14.9		80.40
6	10,380	75.00	10.9	Upper Marker	113.00
7	30,700	0.00	0.0		114.66

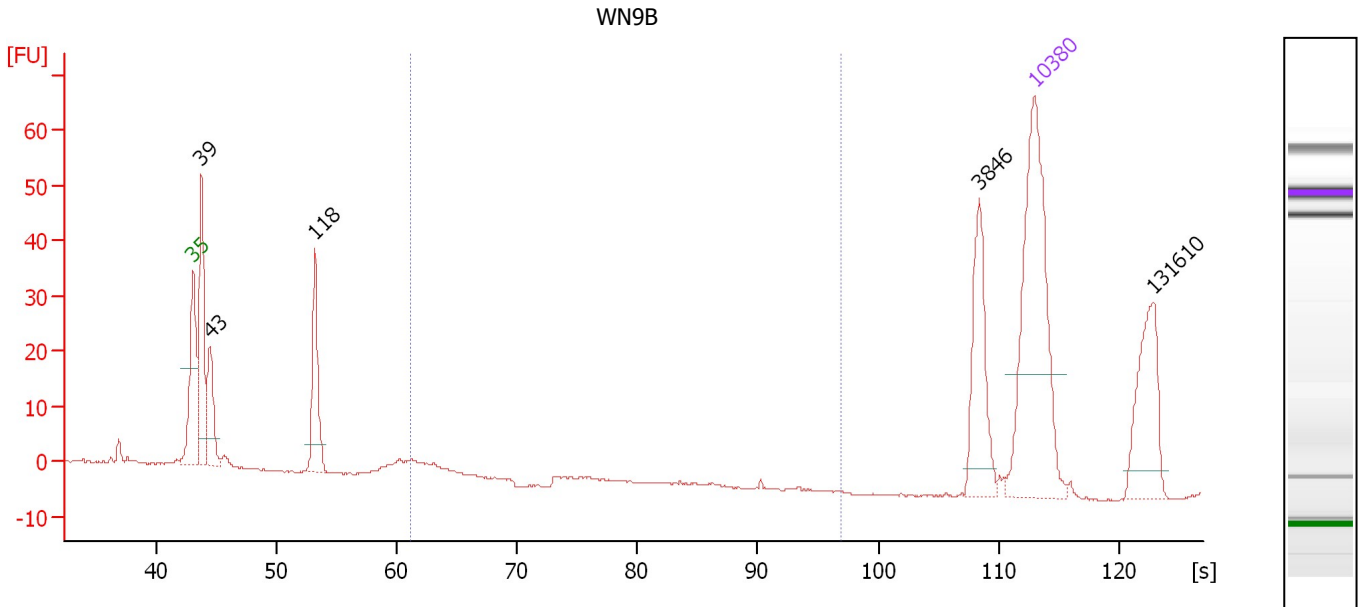
Region table for sample 9 : WT18C

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	440	16.1	100.1	25.16	11	36.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WN9B

Number of peaks found: 5 Corr. Area 1: 8.3
 Noise: 0.1

Peak table for sample 10 : WN9B

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	39	67.19	2,607.9		43.67
3	43	32.74	1,144.3		44.39
4	118	43.04	551.5		53.10
5	3,846	32.79	12.9		108.40
6	10,380	75.00	10.9	Upper Marker	113.00
7	131,610	0.00	0.0		122.92

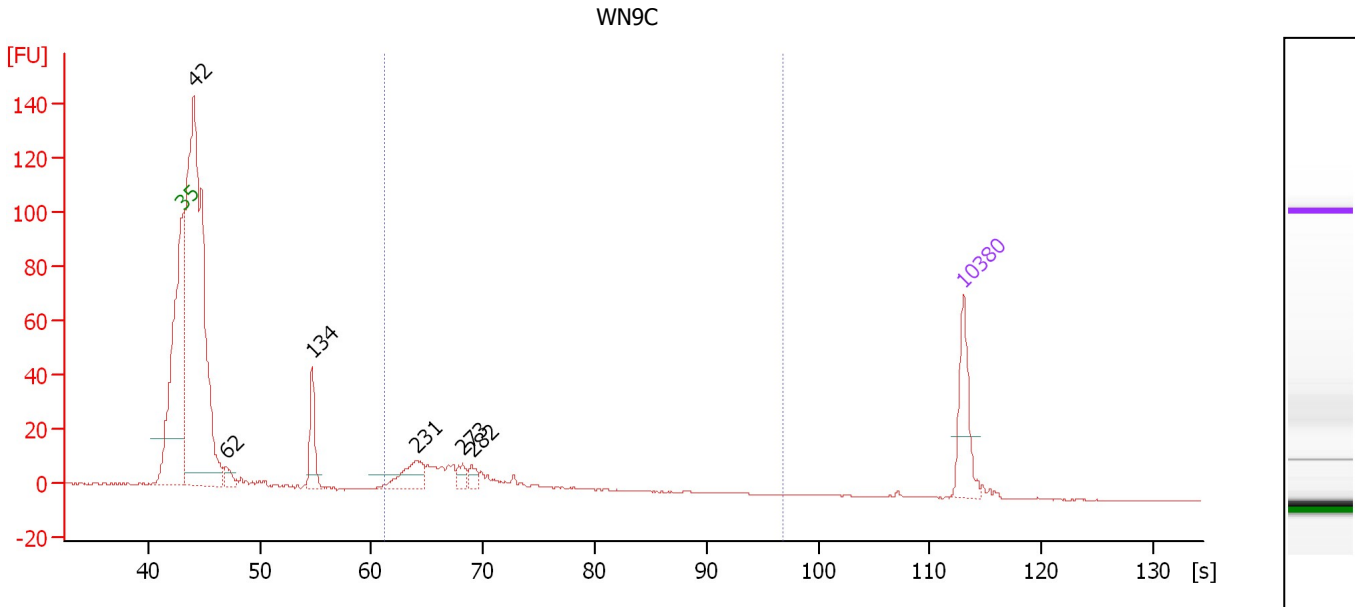
Region table for sample 10 : WN9B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	220	8.3	51.0	7.25	3	21.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : WN9C

Number of peaks found: 6 Corr. Area 1: 141.1
 Noise: 0.2

Peak table for sample 11 : WN9C

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	42	1,452.20	52,814.5		44.11
3	62	28.27	685.5		46.94
4	134	92.10	1,039.2		54.68
5	231	76.67	503.8		64.06
6	273	21.12	117.1		68.14
7	282	19.84	106.5		69.01
8	10,380	75.00	10.9	Upper Marker	113.00

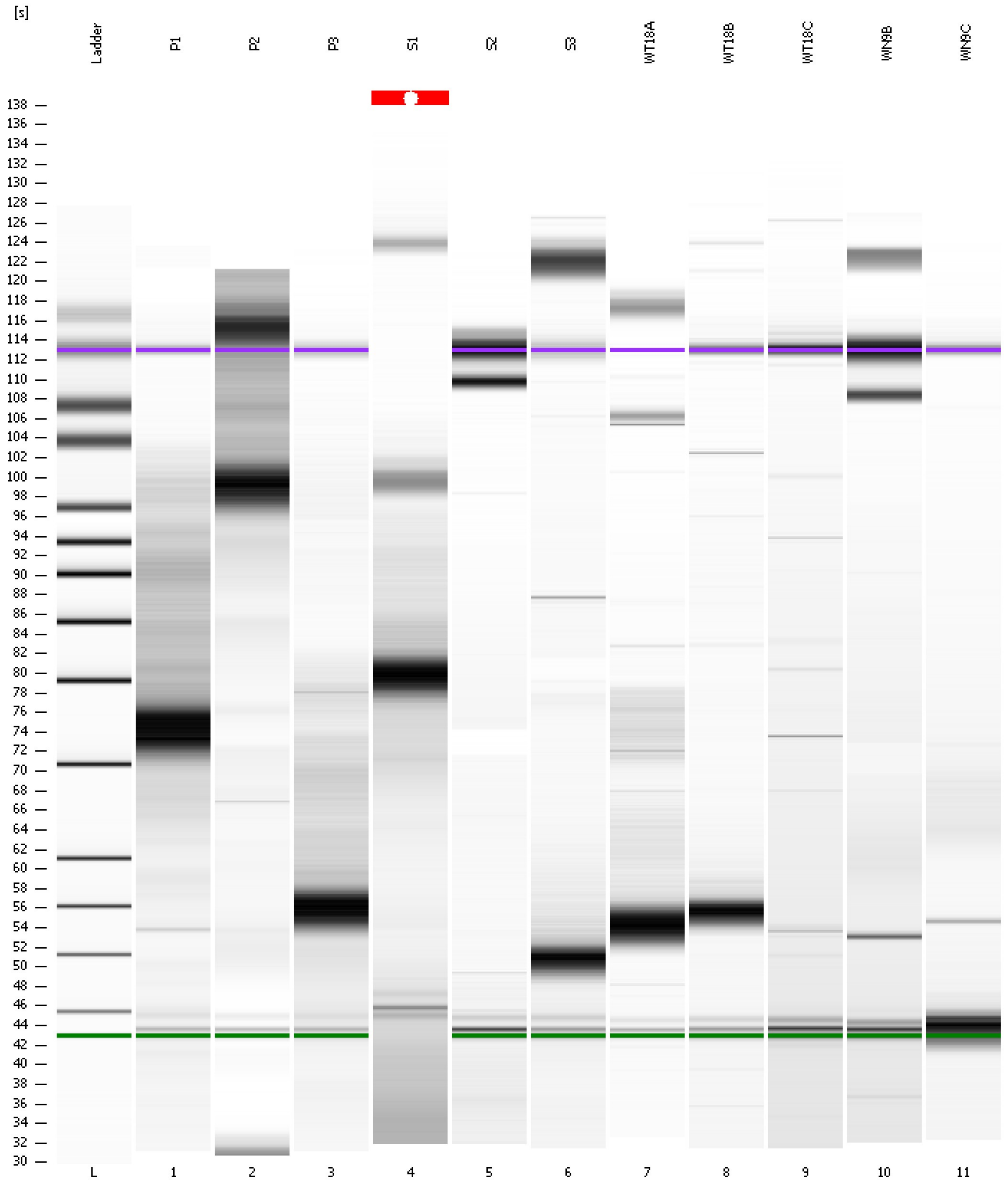
Region table for sample 11 : WN9C

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	291	141.1	1,443.0	258.36	17	29.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
Modified: 6/1/2016 11:00:00 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad

Created: 6/1/2016 10:16:46 AM
 Modified: 6/1/2016 11:00:00 AM

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		6/1/2016 10:57:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_002.xad)		Instrument	Run		6/1/2016 10:16:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/1/2016 10:16:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/1/2016 10:16:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/1/2016 10:16:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/1/2016 10:16:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/1/2016 10:16:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/1/2016 10:16:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1