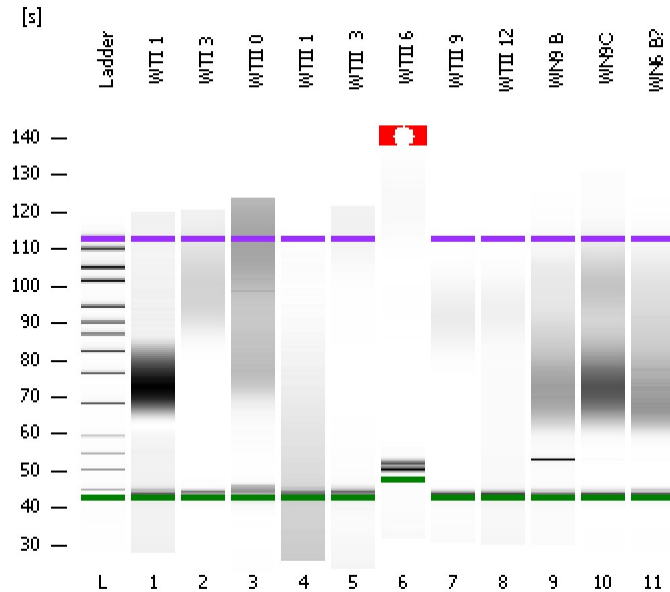


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
Modified: 6/1/2016 12:29:02 PM

Electrophoresis File Run Summary



Instrument Information:

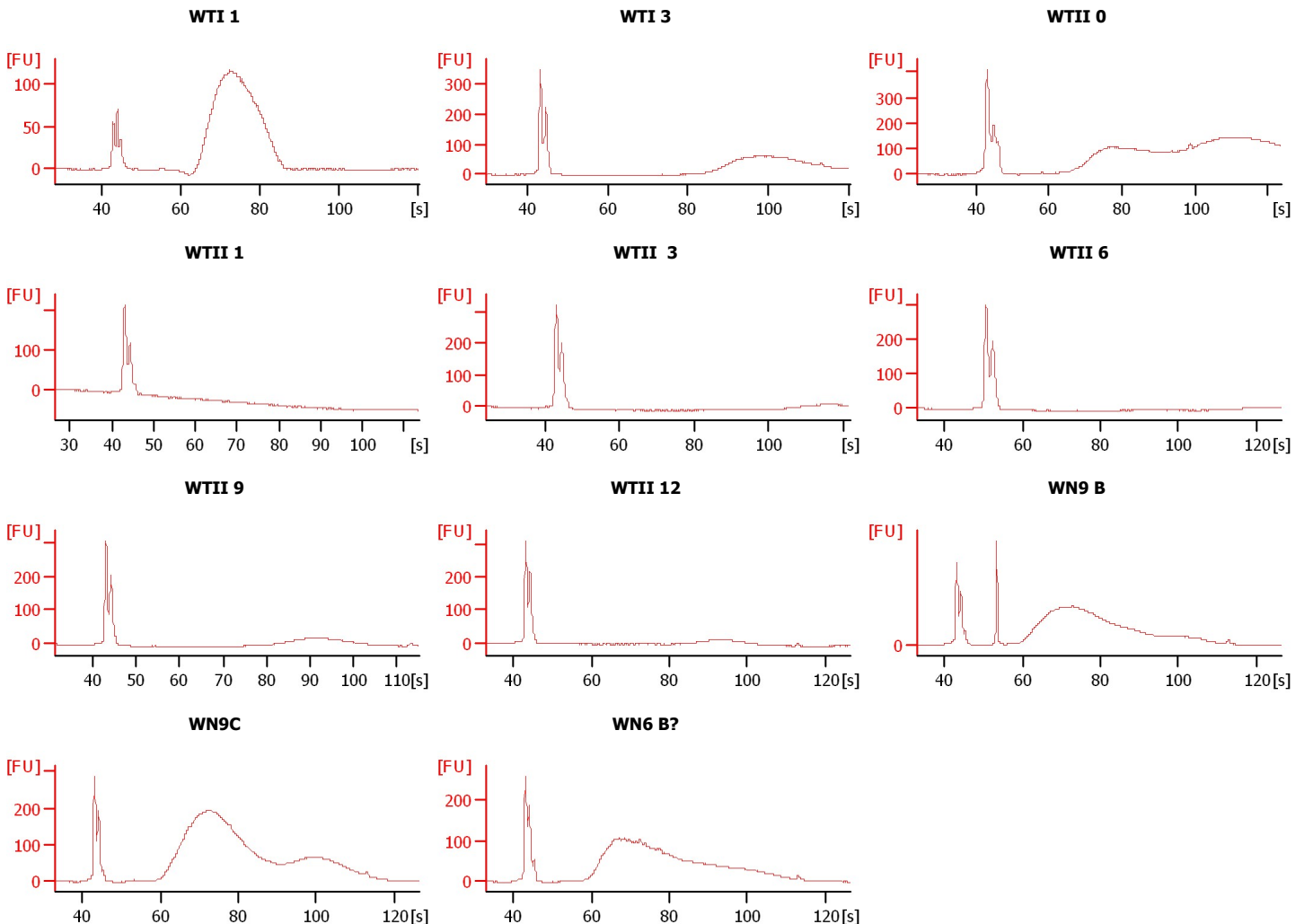
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
Modified: 6/1/2016 12:29:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WTI 1		<input type="checkbox"/>	✓			
WTI 3		<input type="checkbox"/>	✓			
WTII 0		<input type="checkbox"/>	✓			
WTII 1		<input type="checkbox"/>	✓			
WTII 3		<input type="checkbox"/>	✓			
WTII 6		<input type="checkbox"/>	✓			
WTII 9		<input type="checkbox"/>	✓			
WTII 12		<input type="checkbox"/>	✓			
WN9 B		<input type="checkbox"/>	✓			
WN9C		<input type="checkbox"/>	✓			
WN6 B?		<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\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
Modified: 6/1/2016 12:29:02 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

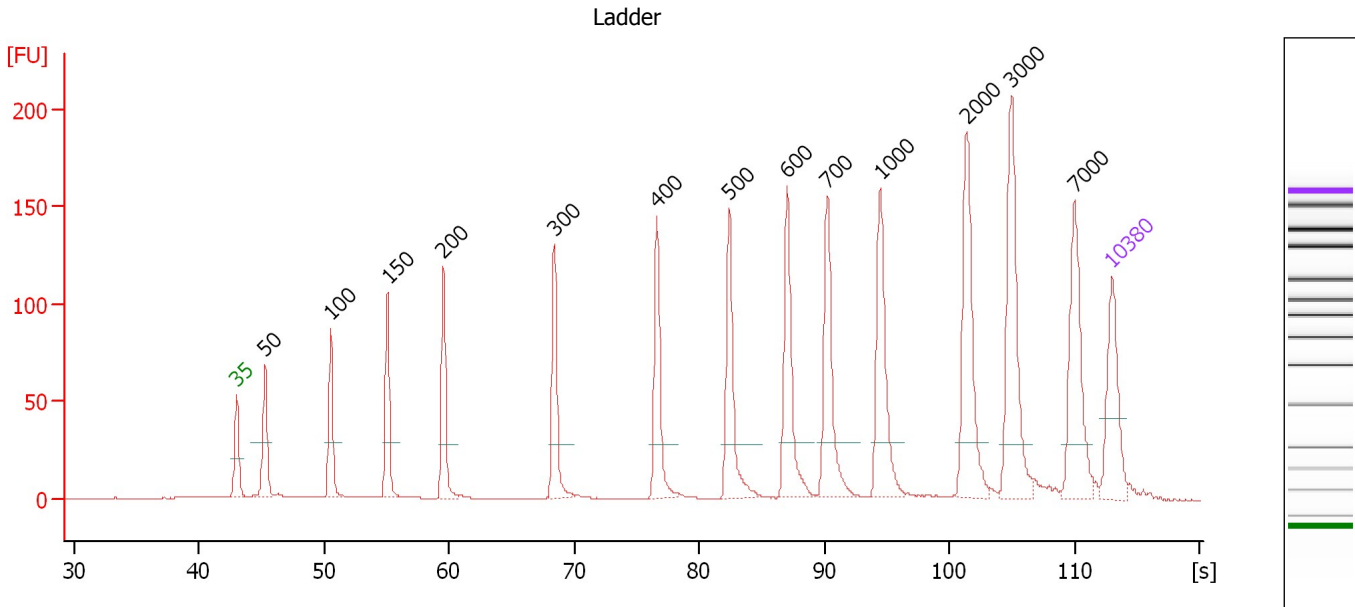
Ladder

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\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

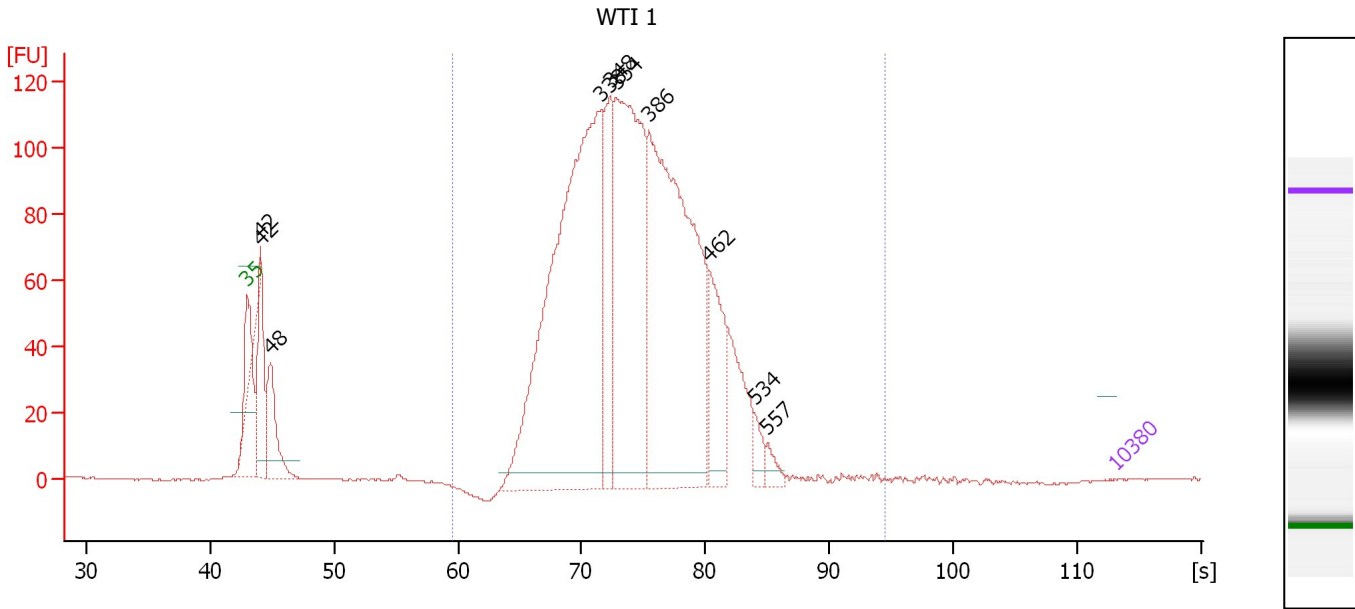
Peak table for Ladder

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.52
4	150	150.00	1,515.2	Ladder Peak	55.07
5	200	150.00	1,136.4	Ladder Peak	59.53
6	300	150.00	757.6	Ladder Peak	68.38
7	400	150.00	568.2	Ladder Peak	76.63
8	500	150.00	454.5	Ladder Peak	82.38
9	600	150.00	378.8	Ladder Peak	87.02
10	700	150.00	324.7	Ladder Peak	90.24
11	1,000	150.00	227.3	Ladder Peak	94.45
12	2,000	150.00	113.6	Ladder Peak	101.36
13	3,000	150.00	75.8	Ladder Peak	104.97
14	7,000	150.00	32.5	Ladder Peak	109.99
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : WTI 1

Number of peaks found: 10 Corr. Area 1: 2,010.9
 Noise: 0.2

Peak table for sample 1 : WTI 1

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	74,344.83	2,691,519.8		44.04
3	42	196,060.86	7,049,937.0		44.08
4	48	141,959.39	4,522,425.0		44.91
5	338	1,127,915.63	5,050,269.0		71.55
6	348	190,665.89	830,502.9		72.33
7	354	622,084.38	2,661,441.8		72.85
8	386	844,399.06	3,317,310.0		75.44
9	462	155,146.70	508,513.4		80.21
10	534	25,503.71	72,430.1		83.93
11	557	20,782.58	56,547.4		85.02
12	10,380	75.00	10.9	Upper Marker	113.00

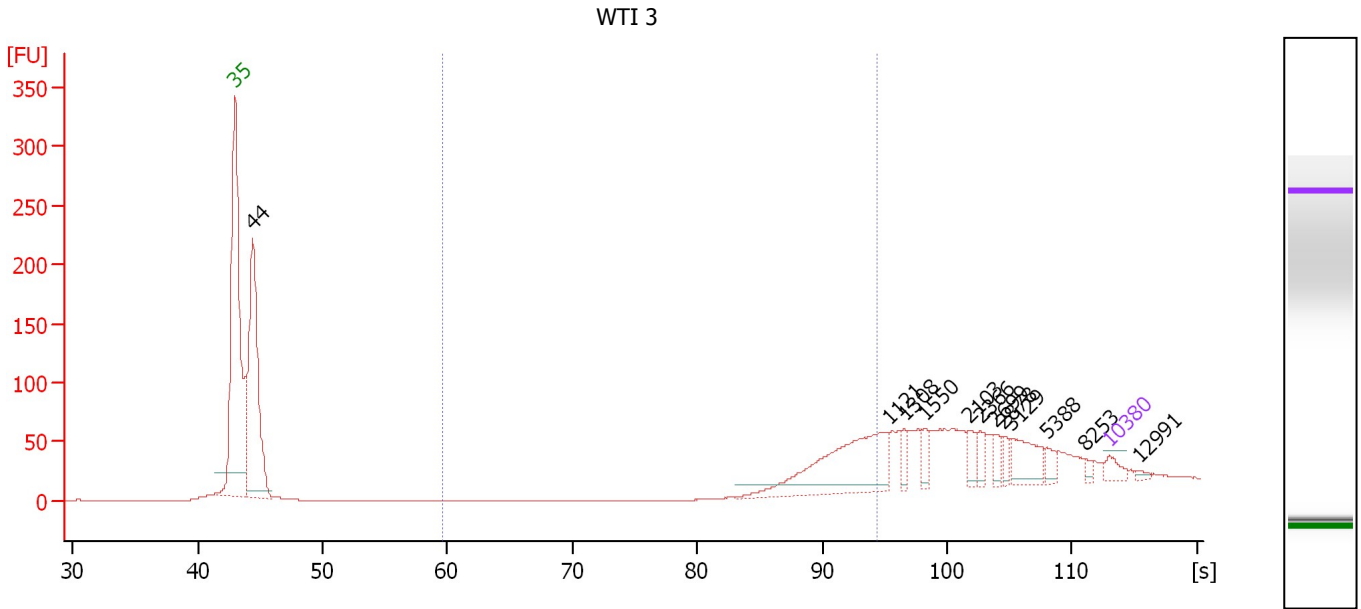
Region table for sample 1 : WTI 1

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	376	2,010.9	12,570,343.0	3,004,700.25	93	17.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
 Modified: 6/1/2016 12:29:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WTI 3

Number of peaks found: 12 Corr. Area 1: 210.0
 Noise: 0.2

Peak table for sample 2 : WTI 3

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	44	2,496.27	85,279.0		44.42
3	1,121	1,020.01	1,378.5		95.29
4	1,308	89.35	103.5		96.57
5	1,550	85.23	83.3		98.25
6	2,103	100.27	72.2		101.73
7	2,366	75.51	48.4		102.68
8	2,699	79.43	44.6		103.88
9	2,878	61.30	32.3		104.53
10	3,129	251.74	121.9		105.13
11	5,388	69.06	19.4		107.97
12	8,253	26.13	4.8		111.11
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,991	0.00	0.0		115.32

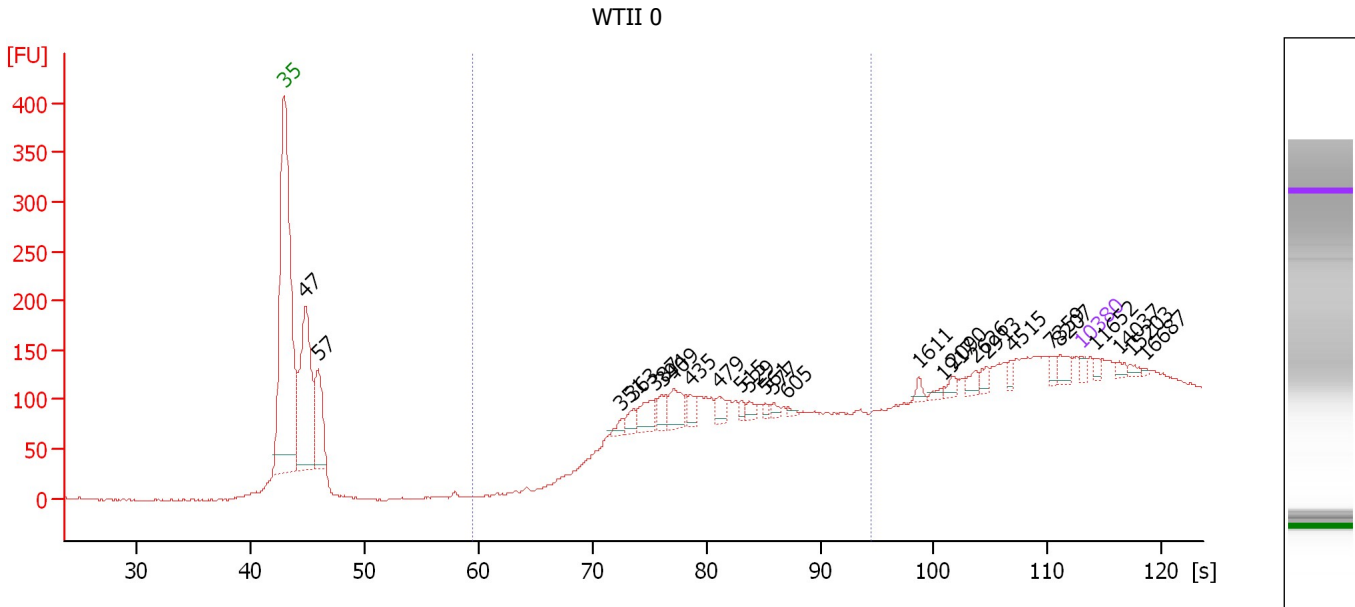
Region table for sample 2 : WTI 3

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	815	210.0	1,319.1	696.70	16	14.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : WTII 0

Number of peaks found: 26 Corr. Area 1: 697.0
 Noise: 1.0

Peak table for sample 3 : WTII 0

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	47	3,907.17	125,647.4		44.84
3	57	1,621.88	43,402.0		45.97
4	351	127.34	550.2		72.56
5	363	217.68	908.1		73.59
6	387	450.01	1,763.4		75.53
7	394	262.23	1,008.2		76.14
8	409	527.68	1,956.1		77.13
9	435	244.27	850.9		78.64
10	479	222.36	703.1		81.18
11	515	96.20	283.1		83.07
12	529	129.93	372.1		83.73
13	561	72.31	195.5		85.19
14	577	87.46	229.7		85.94
15	605	45.34	113.6		87.17
16	1,611	91.95	86.5		98.67
17	1,917	60.27	47.6		100.79
18	2,090	103.12	74.8		101.69
19	2,626	124.36	71.8		103.62
20	2,913	110.68	57.6		104.66
21	4,515	96.73	32.5		106.87
22	7,359	95.70	19.7		110.31
23	8,207	176.54	32.6		111.07
24	10,380	75.00	10.9	Upper Marker	113.00
25	11,652	0.00	0.0		114.13

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

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Electropherogram Summary Continued ...

... Peak table for sample 3 : WTII 0

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	14,037	0.00	0.0		116.25
27	15,203	0.00	0.0		117.29
28	16,687	0.00	0.0		118.61

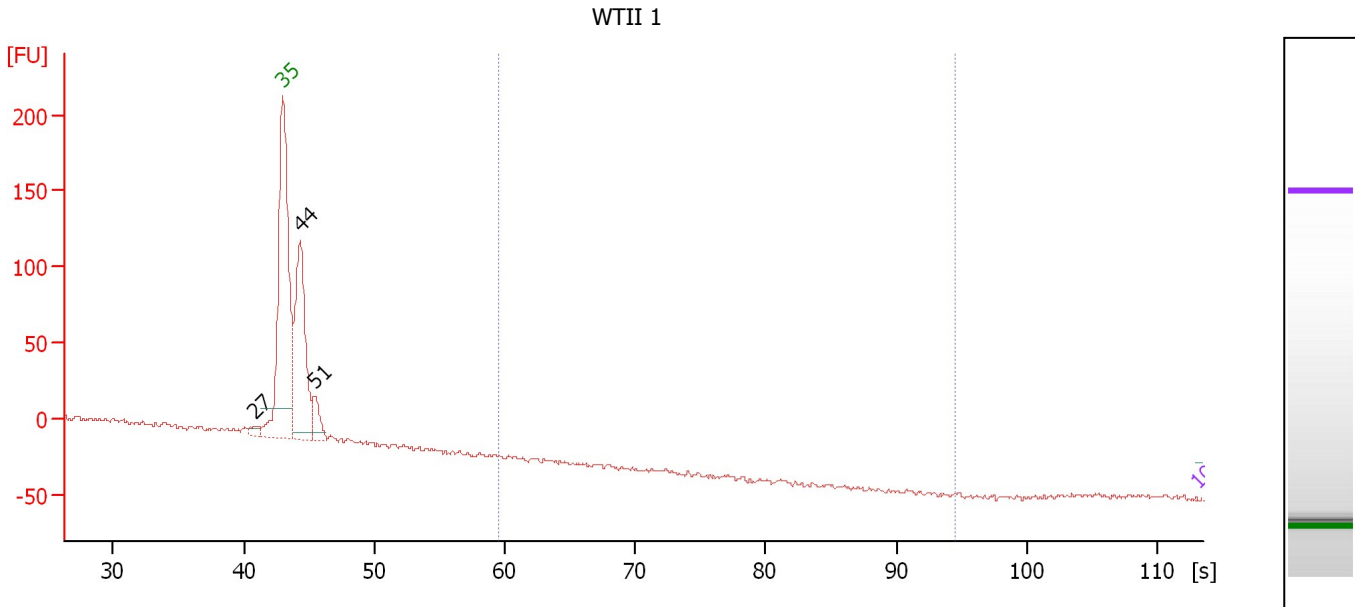
Region table for sample 3 : WTII 0

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	483	697.0	17,126.6	5,106.25	36	25.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : WTII 1

Number of peaks found: 3 Corr. Area 1: 0.0
 Noise: 1.5

Peak table for sample 4 : WTII 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	27	0.00	0.0		40.82
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	37,865.13	1,313,489.1		44.32
4	51	5,734.66	171,499.0		45.35
5	10,380	75.00	10.9	Upper Marker	113.00

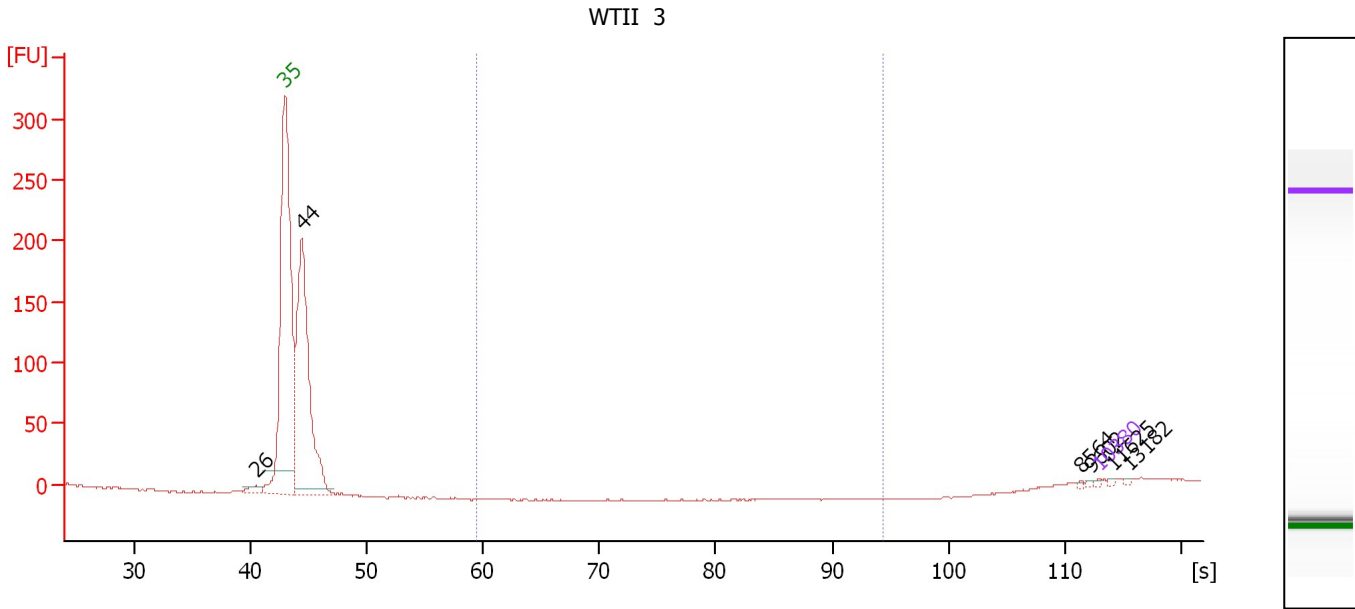
Region table for sample 4 : WTII 1

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\2016-06-01\2016-06-01_003.xad

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 Modified: 6/1/2016 12:29:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WTII 3

Number of peaks found: 6 Corr. Area 1: 0.0
 Noise: 0.5

Peak table for sample 5 : WTII 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	26	0.00	0.0		40.46
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	28,037.96	956,210.8		44.43
4	8,564	75.59	13.4		111.38
5	9,602	80.57	12.7		112.31
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,625	0.00	0.0		114.11
8	13,182	0.00	0.0		115.49

Region table for sample 5 : WTII 3

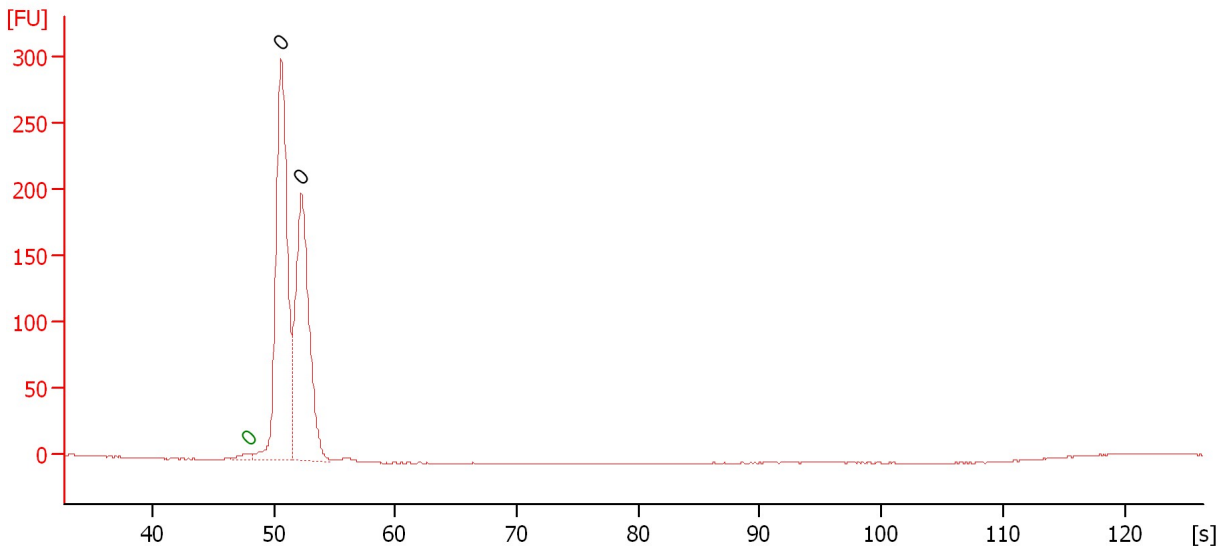
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
Modified: 6/1/2016 12:29:02 PM

Electropherogram Summary Continued ...

WTII 6



Overall Results for sample 6 : WTII 6

Number of peaks found: 2 Noise: 0.3

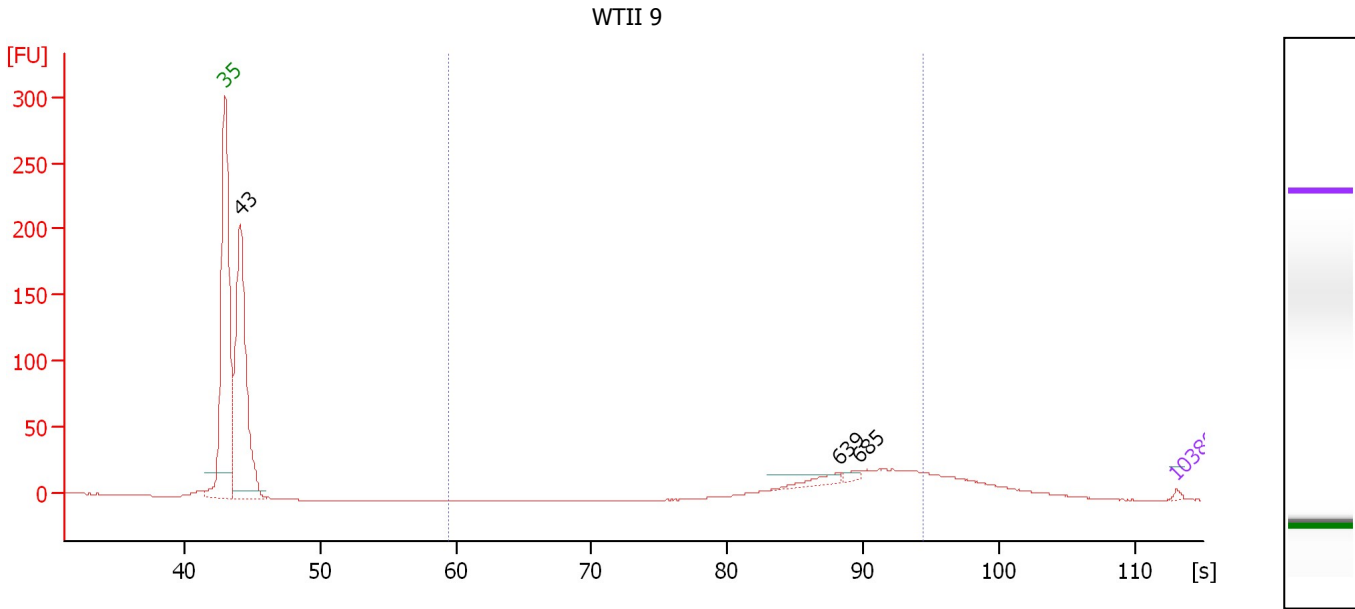
Peak table for sample 6 : WTII 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.90
2	0	0.00	0.0		50.55
3	0	0.00	0.0		52.25

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
 Modified: 6/1/2016 12:29:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WTII 9

Number of peaks found: 3 Corr. Area 1: 236.8
 Noise: 0.2

Peak table for sample 7 : WTII 9

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	43	17,228.08	613,348.8		44.15
3	639	507.05	1,201.8		88.28
4	685	258.27	571.5		89.75
5	10,380	75.00	10.9	Upper Marker	113.00

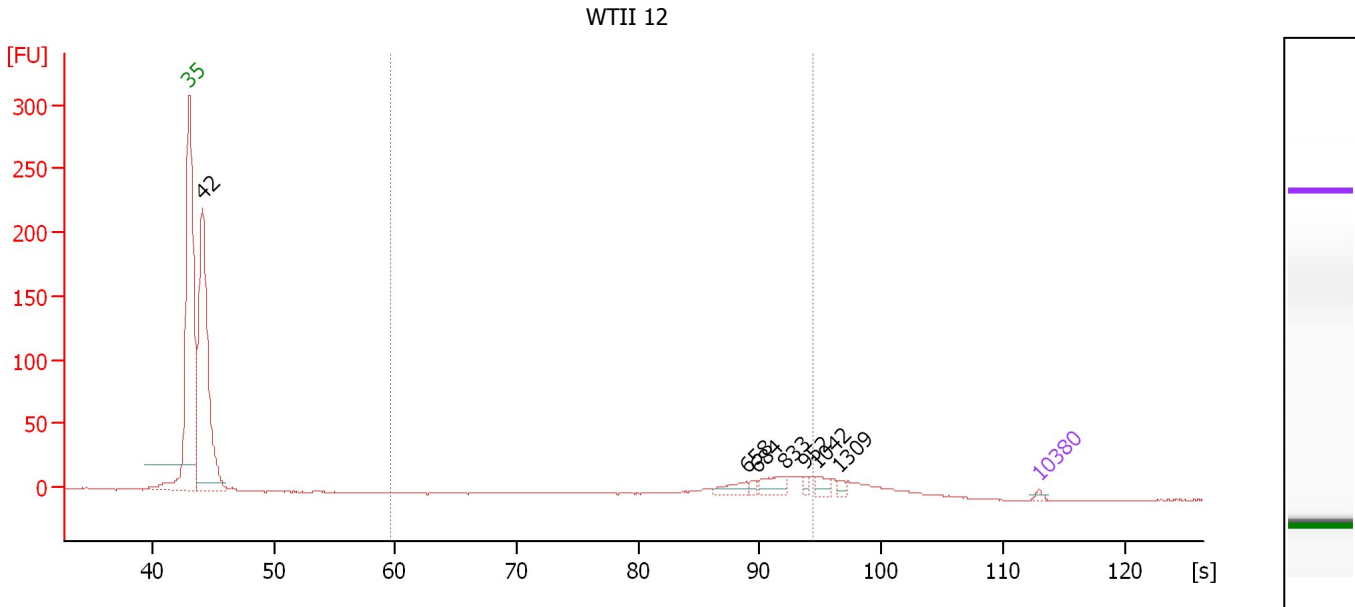
Region table for sample 7 : WTII 9

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	713	236.8	11,226.6	5,046.91	28	19.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : WTII 12

Number of peaks found: 7 Corr. Area 1: 123.0
 Noise: 0.3

Peak table for sample 8 : WTII 12

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	12,519.16	448,493.2		44.11
3	658	433.60	998.6		88.88
4	684	137.25	304.2		89.71
5	833	571.65	1,039.3		92.11
6	952	147.58	234.9		93.77
7	1,042	271.07	394.1		94.74
8	1,309	127.96	148.1		96.58
9	10,380	75.00	10.9	Upper Marker	113.00

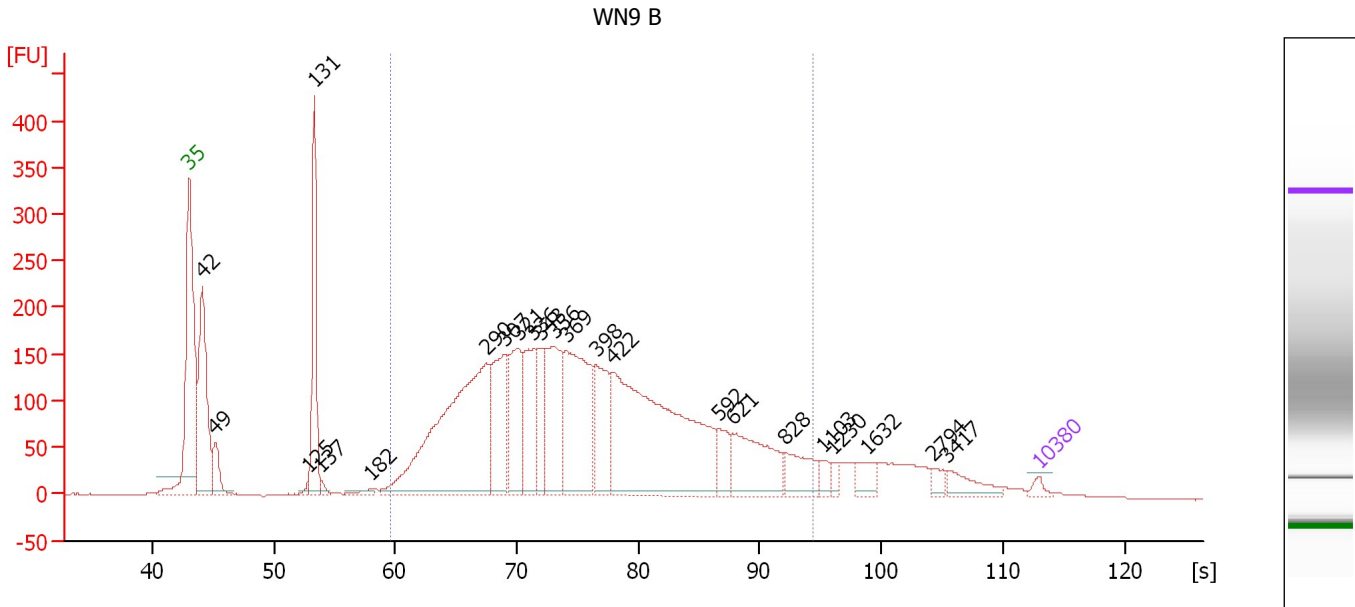
Region table for sample 8 : WTII 12

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	745	123.0	4,318.9	2,022.20	18	19.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
 Modified: 6/1/2016 12:29:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WN9 B

Number of peaks found: 23 Corr. Area 1: 4,574.2
 Noise: 0.3


Peak table for sample 9 : WN9 B

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	2,760.29	99,417.6		44.07
3	49	537.55	16,576.1		45.14
4	125	62.71	759.7		52.80
5	131	2,105.67	24,361.2		53.33
6	137	85.15	942.7		53.87
7	182	97.38	808.7		57.97
8	290	5,262.71	27,522.6		67.47
9	307	1,599.51	7,886.5		68.98
10	321	1,300.09	6,138.6		70.10
11	336	1,263.34	5,702.4		71.32
12	343	707.75	3,123.1		71.96
13	356	1,693.49	7,200.2		73.03
14	369	2,415.56	9,924.5		74.05
15	398	1,163.80	4,426.7		76.49
16	422	5,153.03	18,493.3		77.90
17	592	395.22	1,012.2		86.63
18	621	1,215.22	2,964.1		87.70
19	828	560.98	1,026.2		92.04
20	1,103	144.47	198.5		95.16
21	1,230	93.65	115.4		96.04
22	1,632	230.69	214.2		98.81
23	2,794	122.37	66.4		104.23
24	3,417	278.97	123.7		105.49
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
Modified: 6/1/2016 12:29:02 PM

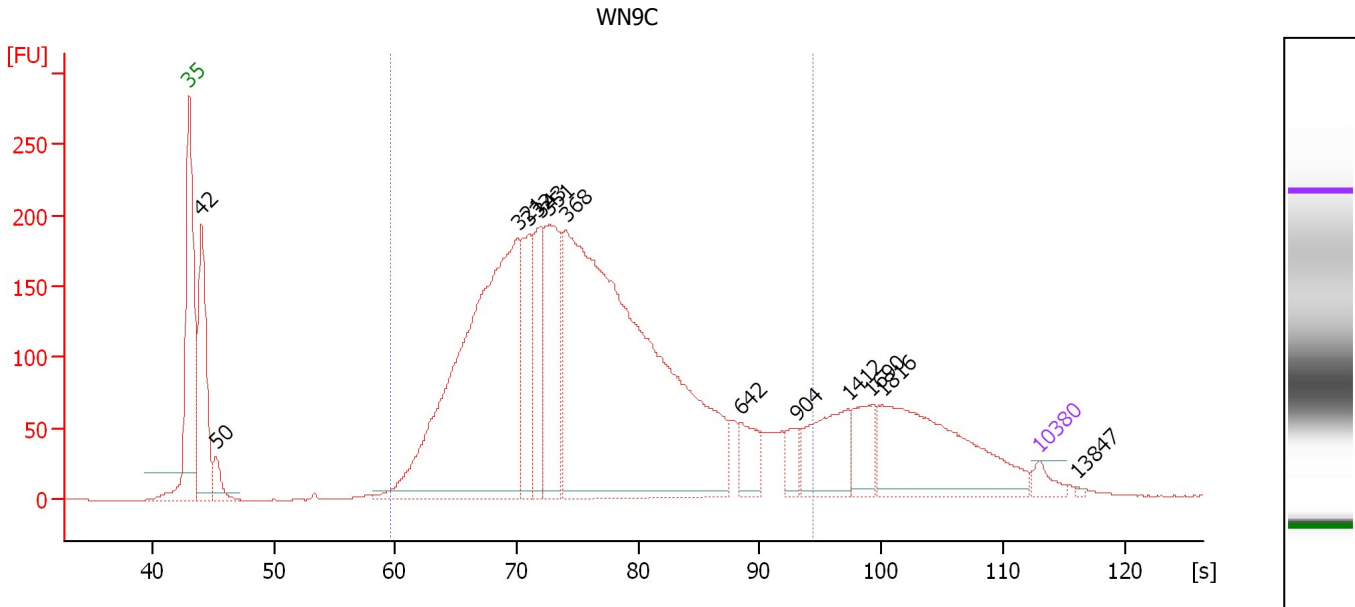
Electropherogram Summary Continued ...**... Region table for sample 9 : WN9 B**

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	418	4,574.2	98,466.1	 23,312.75	77	36.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
 Modified: 6/1/2016 12:29:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WN9C

Number of peaks found: 13 Corr. Area 1: 4,736.9
 Noise: 0.1

Peak table for sample 10 : 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	1,429.48	51,980.2		44.01
3	50	212.13	6,479.4		45.22
4	321	4,430.07	20,939.5		70.08
5	332	711.47	3,244.6		71.04
6	343	675.13	2,979.3		71.95
7	351	1,112.67	4,803.9		72.58
8	368	6,248.31	25,693.5		74.03
9	642	267.13	630.1		88.38
10	904	154.59	259.1		93.10
11	1,412	518.42	556.4		97.29
12	1,690	275.40	246.8		99.22
13	1,816	1,151.51	960.8		100.09
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,847	0.00	0.0		116.08

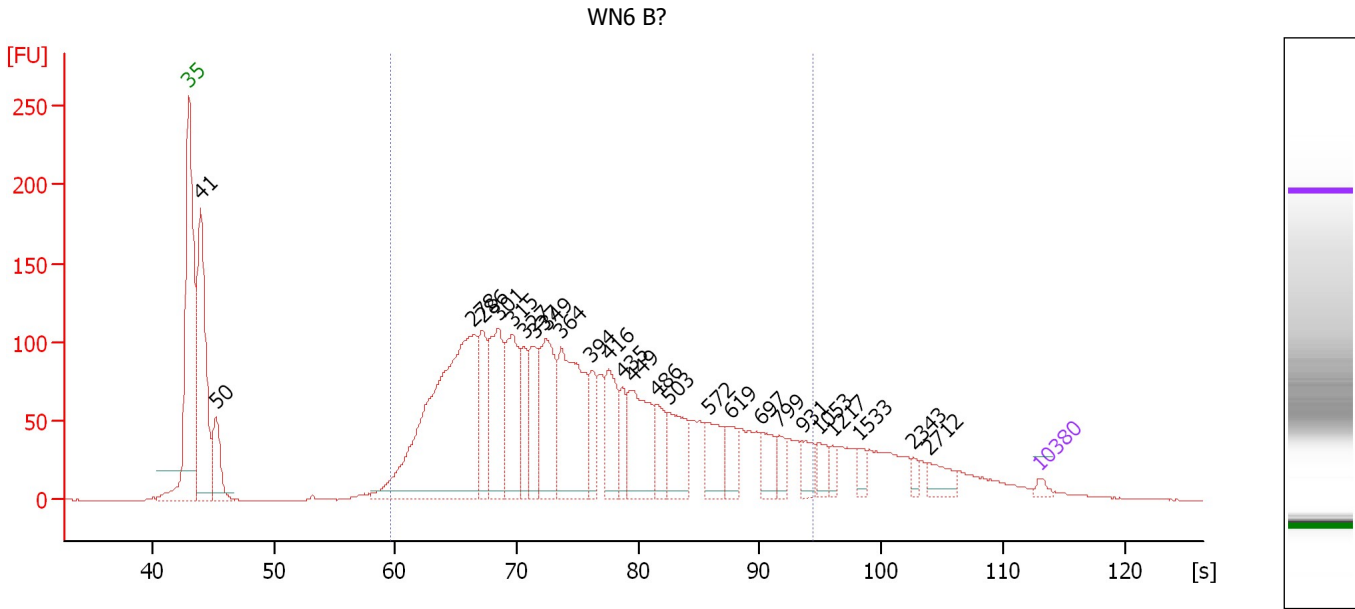
Region table for sample 10 : WN9C

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	414	4,736.9	59,029.4	14,067.33	79	35.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : WN6 B?

Number of peaks found: 26 Corr. Area 1: 3,061.0
 Noise: 0.2

Peak table for sample 11 : WN6 B?


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	41	4,712.27	173,046.5		43.95
3	50	1,228.44	37,442.7		45.23
4	278	7,865.62	42,906.8		66.41
5	286	1,365.51	7,225.4		67.17
6	301	2,151.49	10,812.9		68.50
7	315	2,013.11	9,673.9		69.64
8	327	867.43	4,021.5		70.59
9	337	1,177.82	5,301.6		71.40
10	349	1,982.38	8,613.6		72.40
11	364	2,980.14	12,415.8		73.63
12	394	761.88	2,928.3		76.15
13	416	1,116.27	4,061.2		77.57
14	435	514.50	1,790.3		78.66
15	449	1,704.23	5,745.0		79.47
16	486	697.82	2,176.5		81.56
17	503	1,104.49	3,328.1		82.51
18	572	782.99	2,072.4		85.74
19	619	512.38	1,253.5		87.64
20	697	520.84	1,131.5		90.16
21	799	279.34	529.6		91.63
22	931	352.33	573.3		93.48
23	1,053	308.82	444.5		94.81
24	1,217	176.63	219.8		95.95
25	1,533	177.61	175.5		98.14

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad


Created: 6/1/2016 11:15:39 AM
 Modified: 6/1/2016 12:29:02 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : WN6 B?

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,343	119.82	77.5		102.60
27	2,712	314.88	175.9		103.93
28	 10,380	75.00	10.9	Upper Marker	113.00

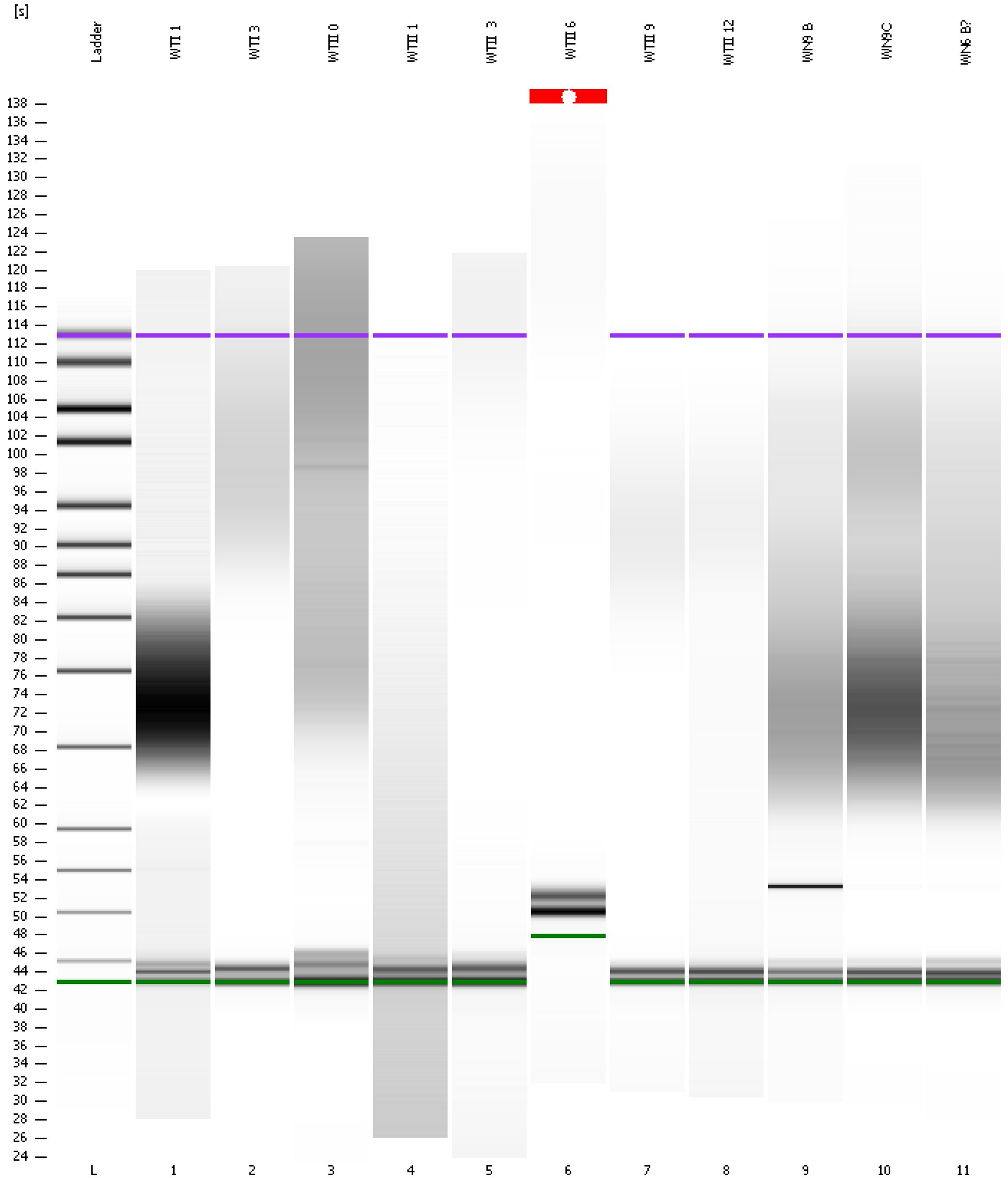
Region table for sample 11 : WN6 B?

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	415	3,061.0	138,633.7	 31,794.62	78	39.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
Modified: 6/1/2016 12:29:02 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_003.xad

Created: 6/1/2016 11:15:39 AM
 Modified: 6/1/2016 12:29:02 PM

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 11:56:06 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_003.xad)		Instrument	Run		6/1/2016 11:15:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/1/2016 11:15:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/1/2016 11:15:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/1/2016 11:15:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/1/2016 11:15:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/1/2016 11:15:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/1/2016 11:15:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1