

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-22\2017-08-22_004.xad

Created: 8/22/2017 2:49:18 PM
Modified: 8/22/2017 3:30:36 PM

Electrophoresis File Run Summary

Instrument Information:

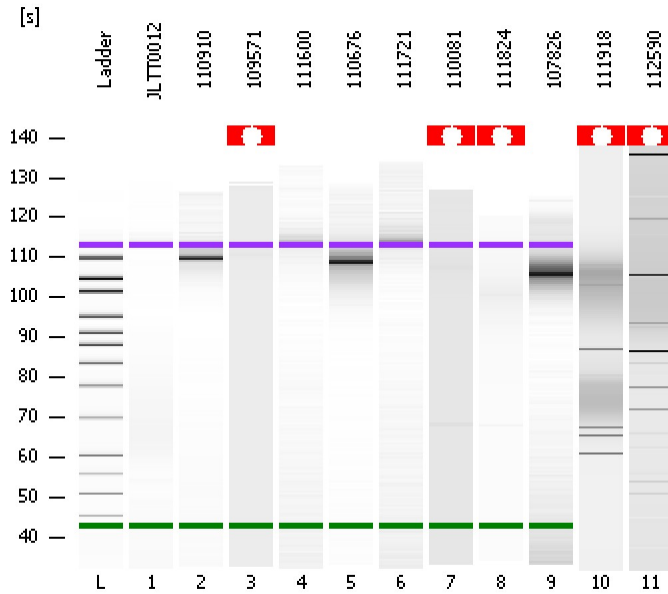
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:

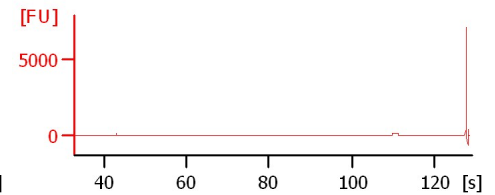
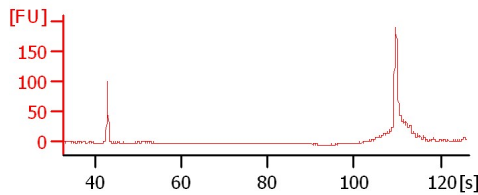
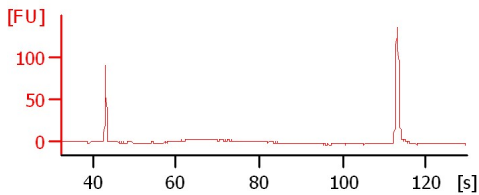
Chip Lot #: Reagent Kit Lot #:
Chip Comments:



JLTT0012

110910

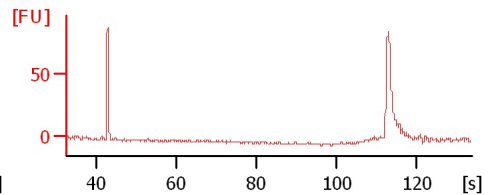
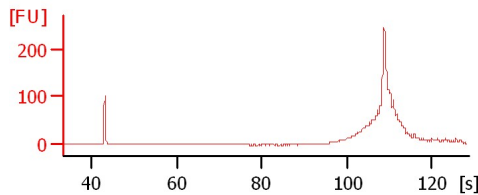
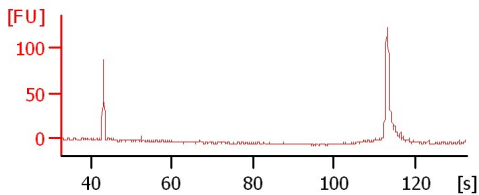
109571



111600

110676

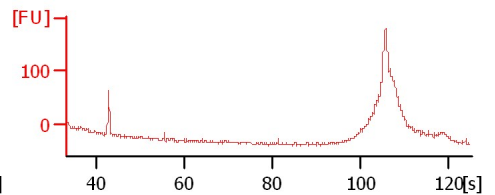
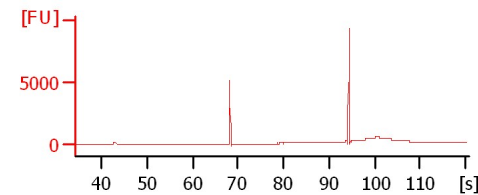
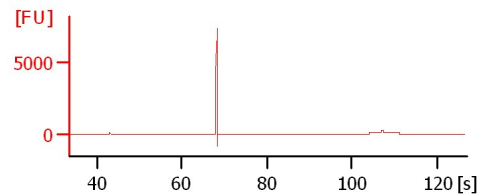
111721



110081

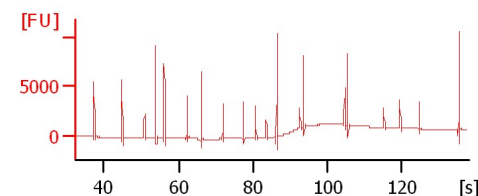
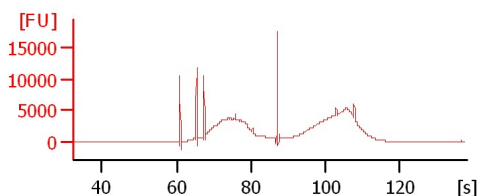
111824

107826



111918

112590



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLTT0012		<input type="checkbox"/>	✓			
110910		<input type="checkbox"/>	✓			
109571		<input type="checkbox"/>	⚠			
111600		<input type="checkbox"/>	✓			
110676		<input type="checkbox"/>	✓			
111721		<input type="checkbox"/>	✓			
110081		<input type="checkbox"/>	⚠			
111824		<input type="checkbox"/>	⚠			
107826		<input type="checkbox"/>	✓			
111918		<input type="checkbox"/>	⚠			
112590		<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

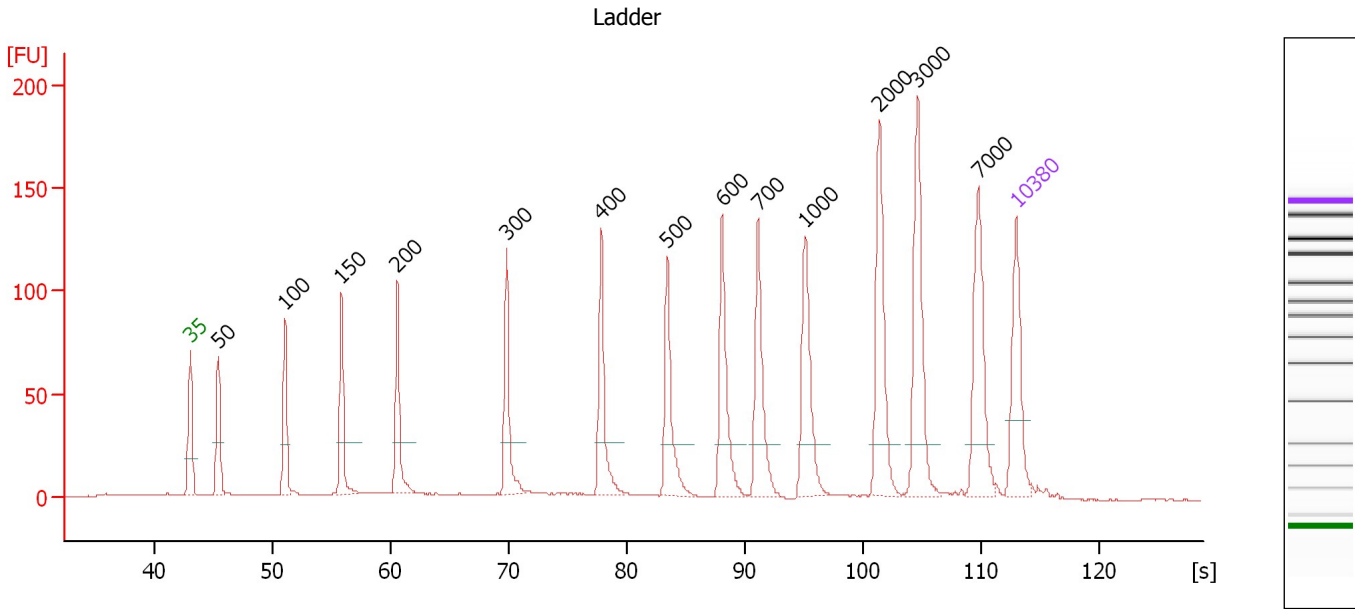
Ladder

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

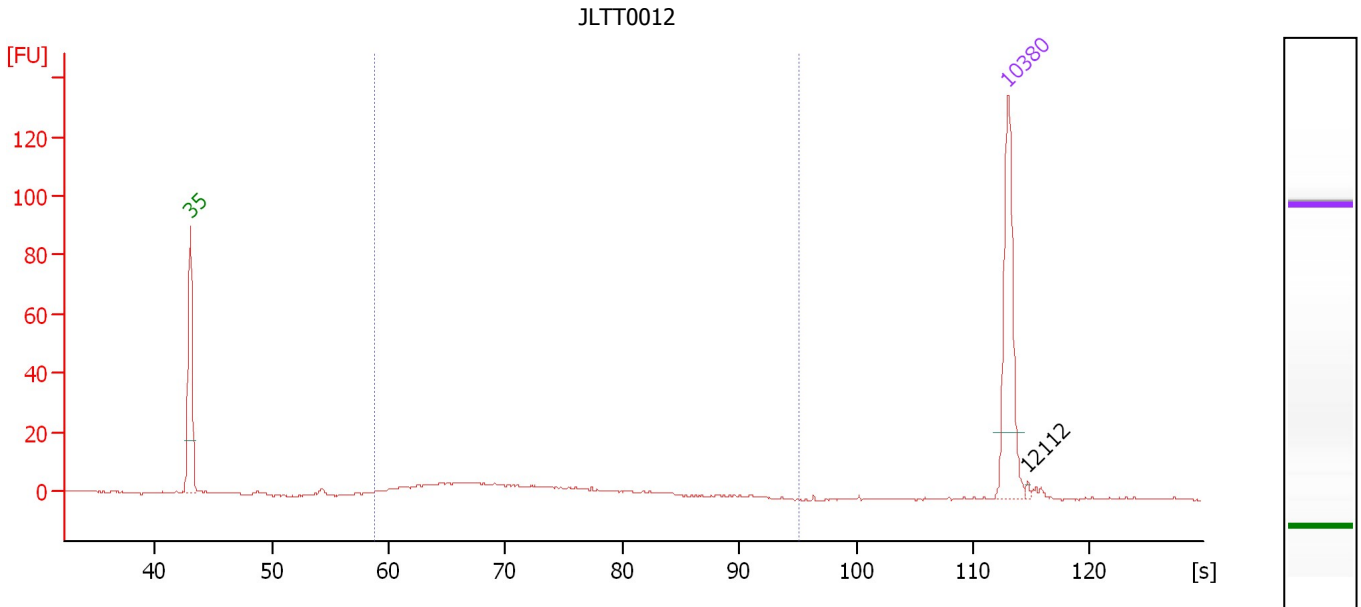
Peak table for Ladder

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	45.41
3	100	150.00	2,272.7	Ladder Peak	51.05
4	150	150.00	1,515.2	Ladder Peak	55.83
5	200	150.00	1,136.4	Ladder Peak	60.56
6	300	150.00	757.6	Ladder Peak	69.84
7	400	150.00	568.2	Ladder Peak	77.84
8	500	150.00	454.5	Ladder Peak	83.44
9	600	150.00	378.8	Ladder Peak	88.07
10	700	150.00	324.7	Ladder Peak	91.12
11	1,000	150.00	227.3	Ladder Peak	95.12
12	2,000	150.00	113.6	Ladder Peak	101.40
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : JLTT0012

Number of peaks found: 1 Corr. Area 1: 90.8
 Noise: 0.2

Peak table for sample 1 : JLTT0012

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	12,112	0.00	0.0		114.65

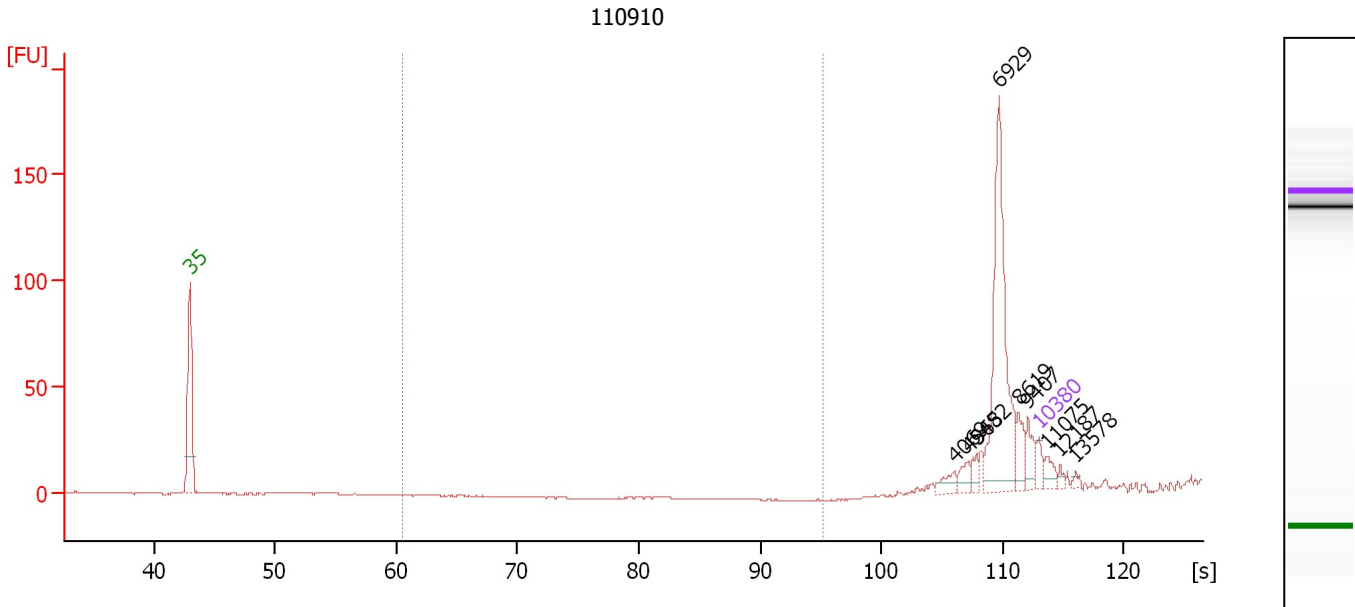
Region table for sample 1 : JLTT0012

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
181	1,000	314	90.8	500.6	94.71	89	27.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 110910

Number of peaks found: 9 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 2 : 110910

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	4,069	87.70	32.7		106.00
3	4,965	84.53	25.8		107.16
4	5,482	62.31	17.2		107.82
5	6,929	1,257.48	275.0		109.68
6	8,619	144.22	25.4		111.32
7	9,407	135.84	21.9		112.07
8	10,380	75.00	10.9	Upper Marker	113.00
9	11,075	0.00	0.0		113.66
10	12,187	0.00	0.0		114.73
11	13,578	0.00	0.0		116.06

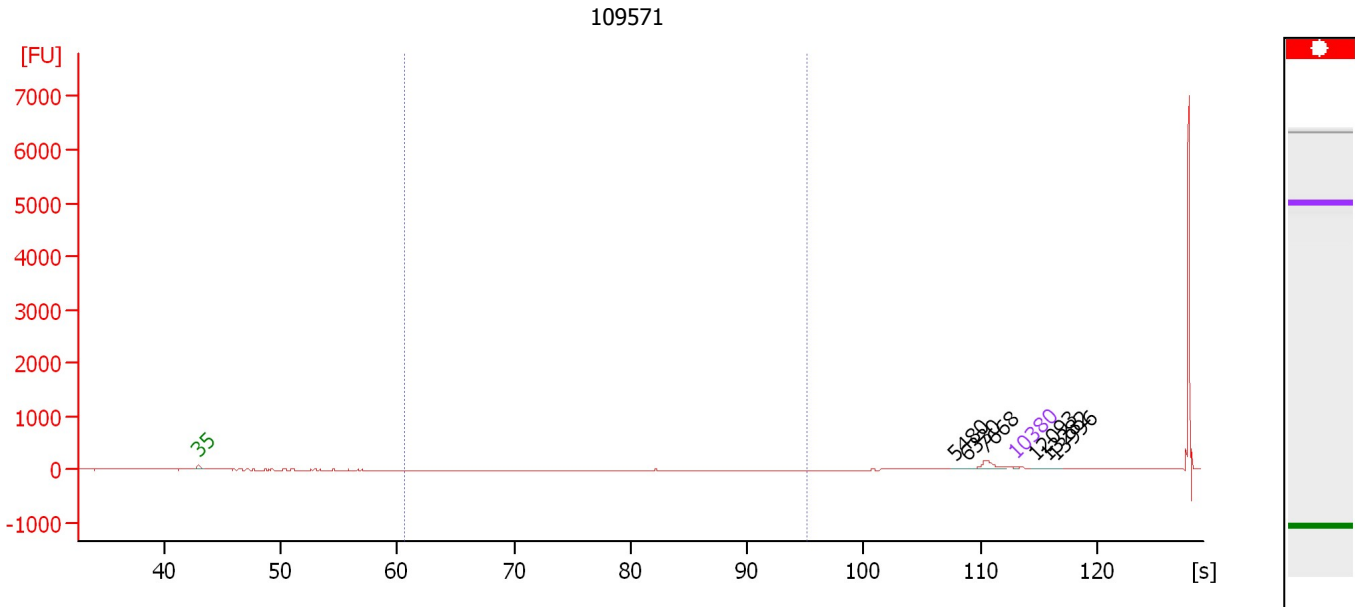
Region table for sample 2 : 110910

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

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 109571

Number of peaks found: 6 Corr. Area 1: 0.0
 Noise: 0.6

Peak table for sample 3 : 109571

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	5,480	26.44	7.3		107.82
3	6,330	52.59	12.6		108.91
4	7,668	772.18	152.6		110.41
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,093	0.00	0.0		114.64
7	13,282	0.00	0.0		115.77
8	13,996	0.00	0.0		116.45

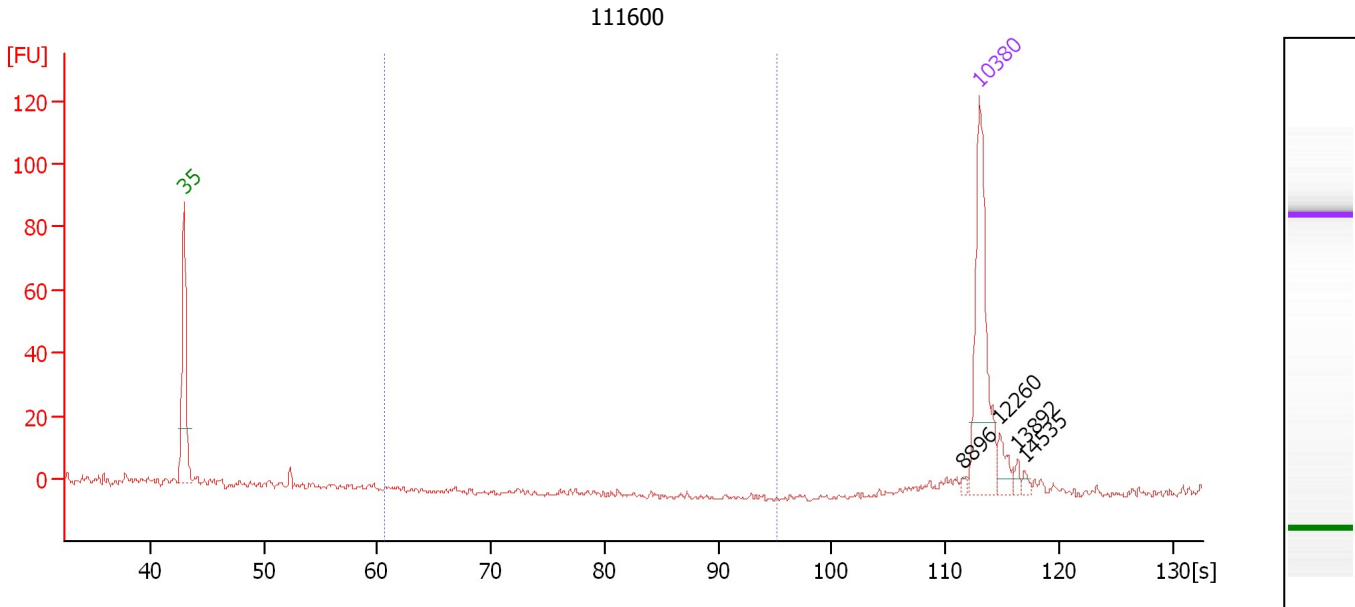
Region table for sample 3 : 109571

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

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 111600

Number of peaks found: 4 Corr. Area 1: 0.8
 Noise: 0.8

Peak table for sample 4 : 111600

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	8,896	1.91	0.3		111.58
3	10,380	75.00	10.9	Upper Marker	113.00
4	12,260	0.00	0.0		114.80
5	13,892	0.00	0.0		116.36
6	14,535	0.00	0.0		116.97

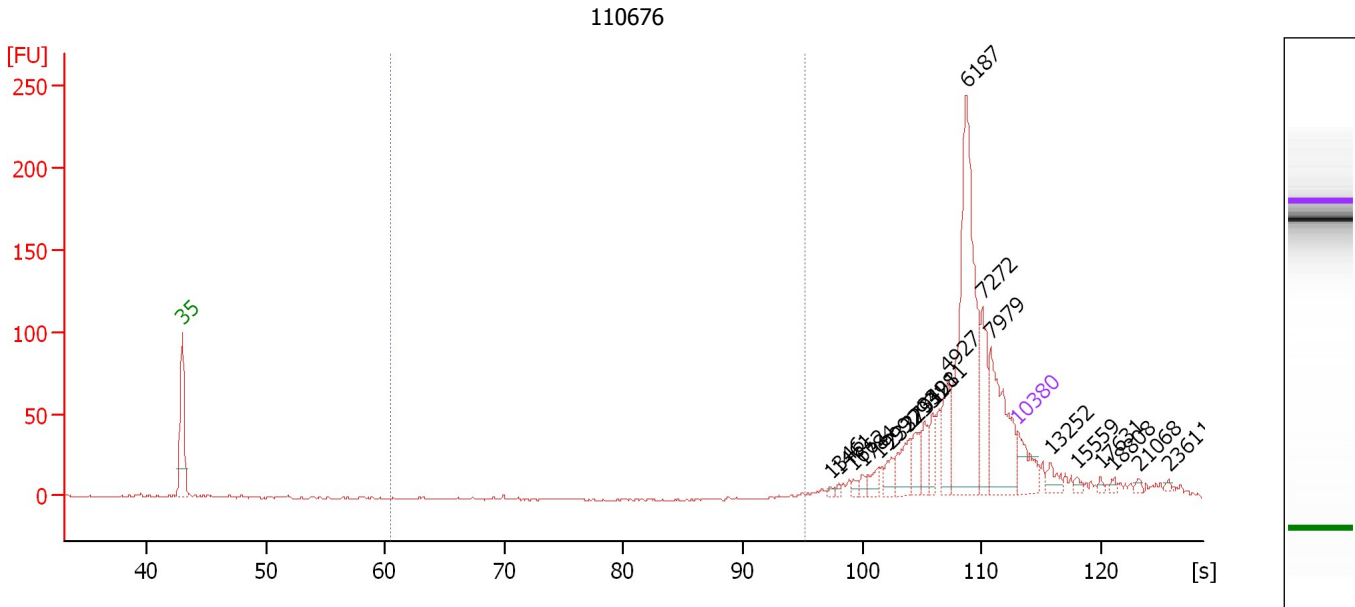
Region table for sample 4 : 111600

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	264	0.8	4.6	0.75	1	25.5

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 110676

Number of peaks found: 20 Corr. Area 1: 0.6
 Noise: 0.5

Peak table for sample 5 : 110676


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	1,346	7.07	8.0		97.30
3	1,461	7.71	8.0		98.02
4	1,662	11.13	10.1		99.28
5	1,784	13.93	11.8		100.04
6	1,999	29.15	22.1		101.39
7	2,332	33.56	21.8		102.47
8	2,791	73.71	40.0		103.96
9	2,931	49.90	25.8		104.41
10	3,421	49.43	21.9		105.17
11	3,981	47.60	18.1		105.89
12	4,927	99.64	30.6		107.11
13	6,187	591.70	144.9		108.73
14	7,272	129.11	26.9		110.03
15	7,979	230.89	43.8		110.71
16	10,380	75.00	10.9	Upper Marker	113.00
17	13,252	0.00	0.0		115.74
18	15,559	0.00	0.0		117.95
19	17,631	0.00	0.0		119.93
20	18,808	0.00	0.0		121.05
21	21,068	0.00	0.0		123.21
22	23,611	0.00	0.0		125.64

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Electropherogram Summary Continued ...

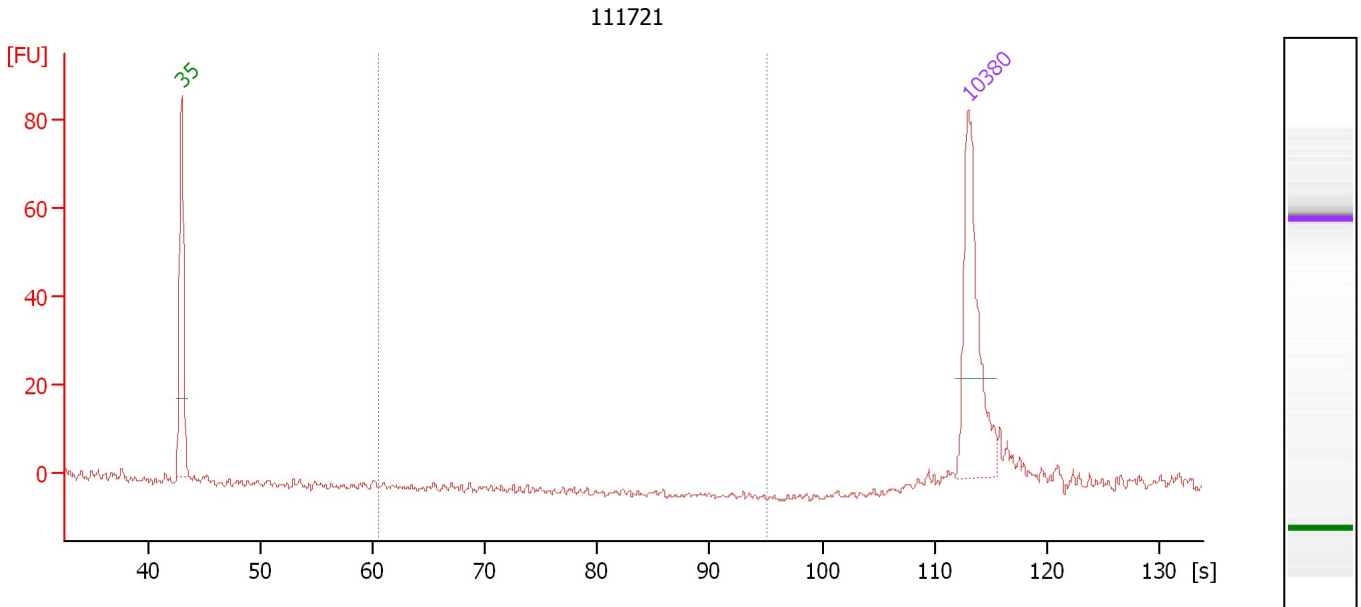
... Region table for sample 5 : 110676

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	844	0.6	3.5	 1.36	0	31.8

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



Overall Results for sample 6 : 111721

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.8

Peak table for sample 6 : 111721

Pea k	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

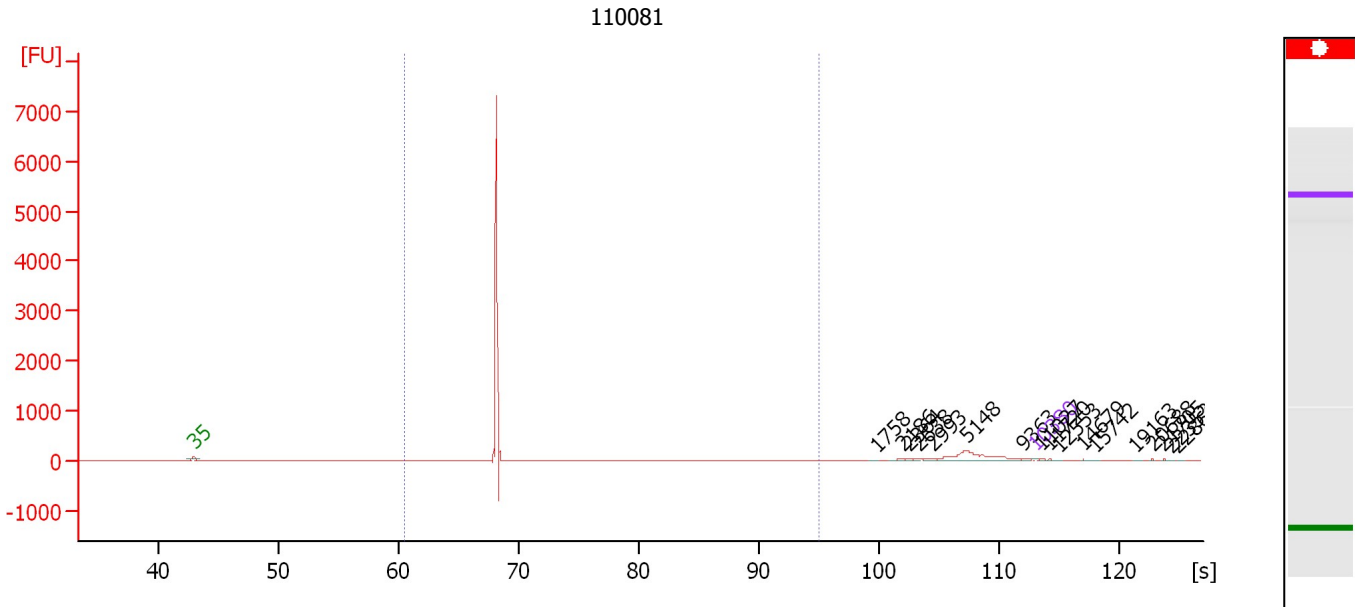
Region table for sample 6 : 111721

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

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 110081

Number of peaks found: 17 Corr. Area 1: 2,152.0
 Noise: 0.9

Peak table for sample 7 : 110081

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	1,758	30.67	26.4		99.88
3	2,186	115.52	80.1		102.00
4	2,364	104.93	67.3		102.58
5	2,638	111.82	64.2		103.46
6	2,993	308.42	156.1		104.61
7	5,148	4,045.14	1,190.5		107.39
8	9,363	165.80	26.8		112.03
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,027	0.00	0.0		113.62
11	11,720	0.00	0.0		114.28
12	12,553	0.00	0.0		115.08
13	14,679	0.00	0.0		117.11
14	15,742	0.00	0.0		118.12
15	19,163	0.00	0.0		121.39
16	20,688	0.00	0.0		122.85
17	21,705	0.00	0.0		123.82
18	22,352	0.00	0.0		124.44
19	22,861	0.00	0.0		124.92

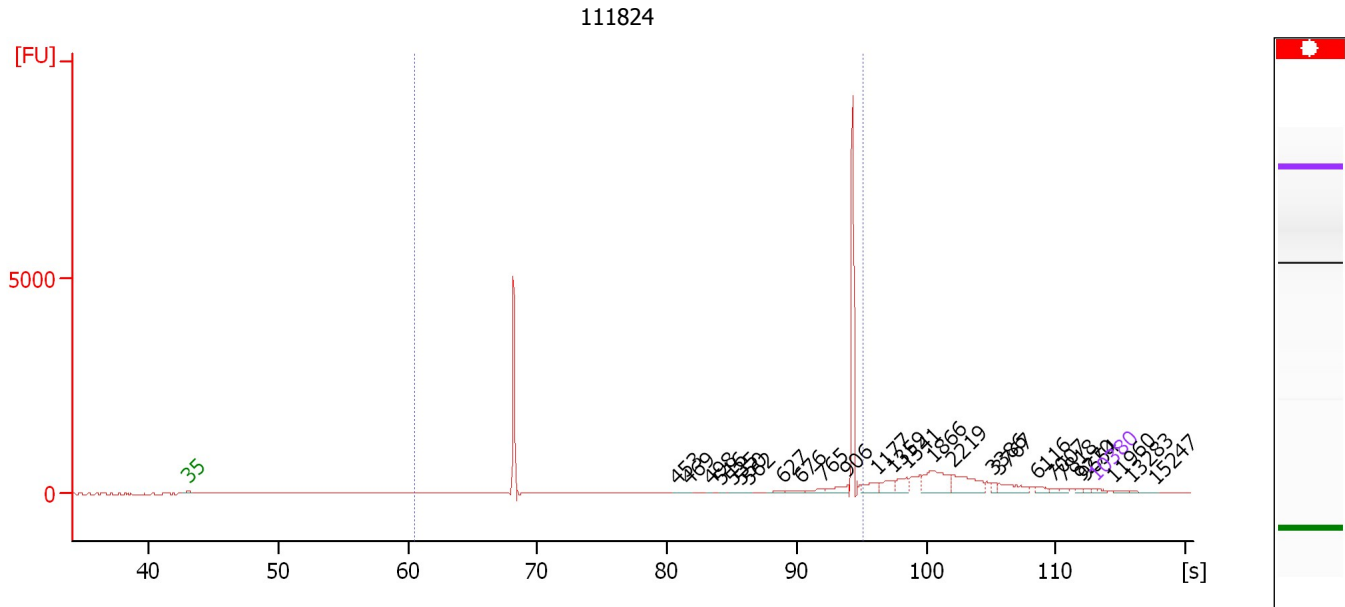
Region table for sample 7 : 110081

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	283	2,152.0	120,950.3	22,552.17	73	0.3

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 111824

Number of peaks found: 26 Corr. Area 1: 4,523.6
 Noise: 1.2

Peak table for sample 8 : 111824

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	453	4.30	14.4		80.81
3	469	5.81	18.7		81.71
4	498	5.66	17.2		83.34
5	516	9.76	28.6		84.20
6	535	9.23	26.1		85.06
7	550	14.68	40.5		85.75
8	562	12.81	34.5		86.32
9	627	62.06	150.0		88.89
10	676	109.72	245.8		90.40
11	765	153.63	304.2		91.99
12	906	299.04	500.2		93.87
13	1,177	343.24	441.9		96.23
14	1,359	319.78	356.6		97.38
15	1,541	383.99	377.6		98.52
16	1,866	1,004.85	816.1		100.56
17	2,219	822.11	561.4		102.11
18	3,386	110.12	49.3		105.13
19	3,767	400.29	161.0		105.62
20	6,116	115.30	28.6		108.64
21	7,007	78.88	17.1		109.78
22	7,818	63.12	12.2		110.55
23	9,270	42.08	6.9		111.94
24	9,654	33.84	5.3		112.31
25	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...**... Peak table for sample 8 : 111824**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	11,960	0.00	0.0		114.51
27	13,283	0.00	0.0		115.77
28	15,247	0.00	0.0		117.65

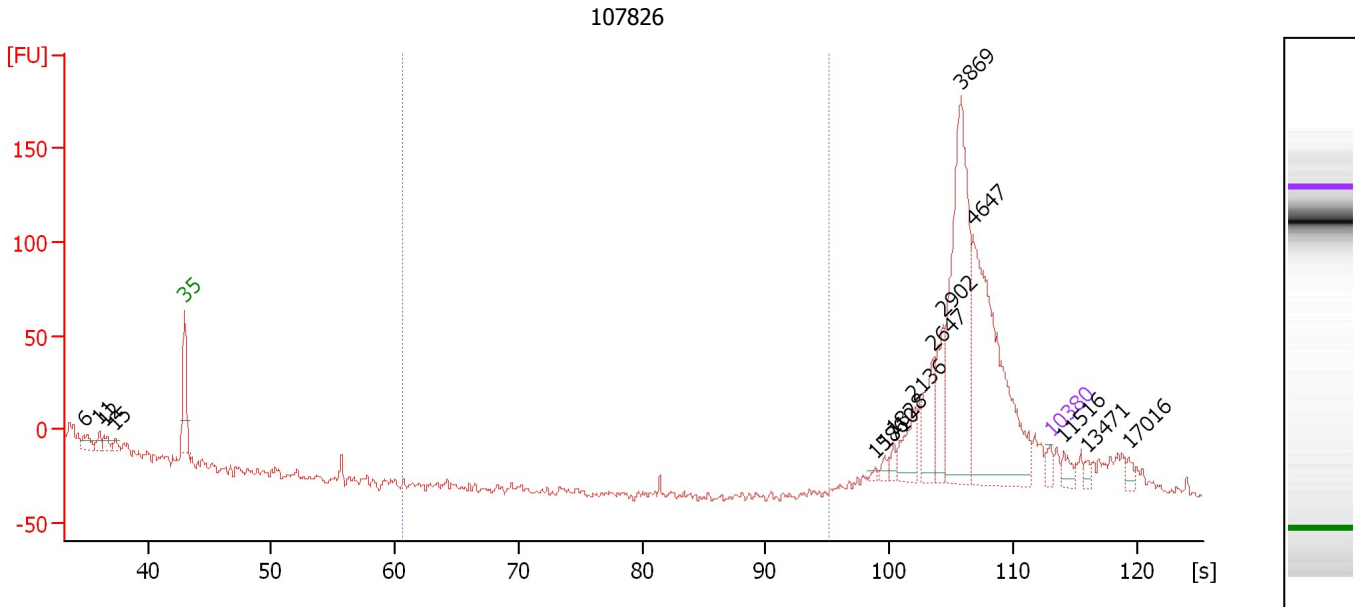
Region table for sample 8 : 111824

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	737	4,523.6	16,417.8	5,158.93	48	38.5

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 107826

Number of peaks found: 15 Corr. Area 1: 0.0
 Noise: 2.2

Peak table for sample 9 : 107826

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	6	0.00	0.0		34.84
2	11	0.00	0.0		36.10
3	12	0.00	0.0		36.44
4	15	0.00	0.0		37.35
5	35	125.00	5,411.3	Lower Marker	43.00
6	1,586	23.90	22.8		98.80
7	1,710	59.28	52.5		99.58
8	1,828	58.46	48.5		100.32
9	2,136	280.43	198.9		101.84
10	2,647	355.69	203.6		103.49
11	2,902	384.51	200.7		104.32
12	3,869	2,005.75	785.4		105.75
13	4,647	2,099.57	684.6		106.75
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,516	0.00	0.0		114.09
16	13,471	0.00	0.0		115.95
17	17,016	0.00	0.0		119.34

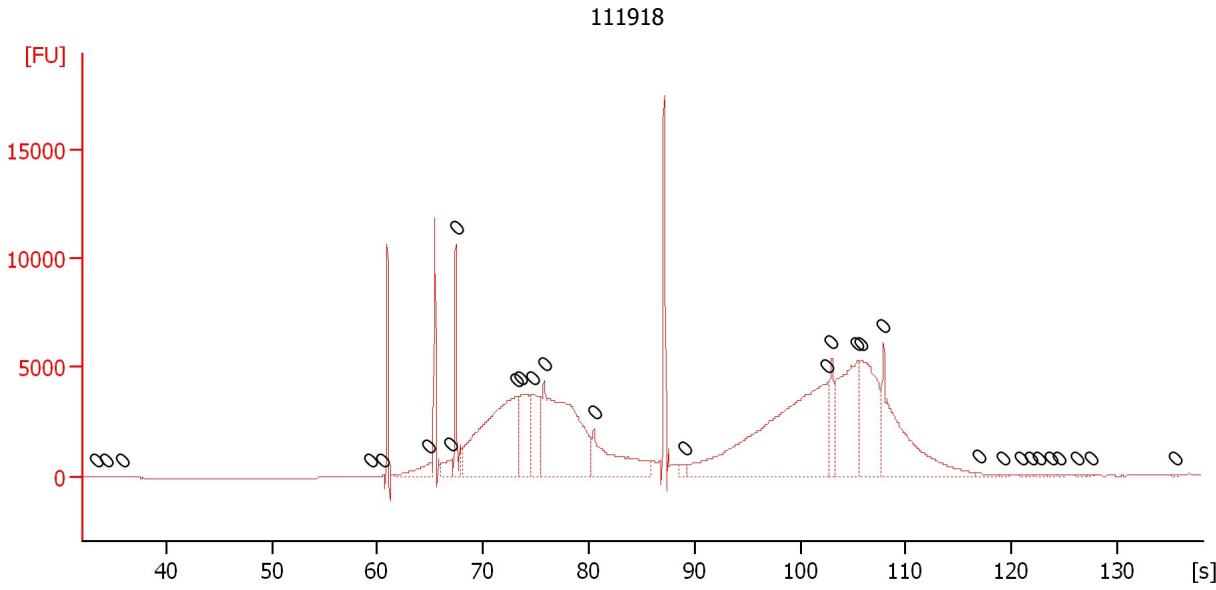
Region table for sample 9 : 107826

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\2017-08-22\2017-08-22_004.xad

Created: 8/22/2017 2:49:18 PM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : 111918

Number of peaks found: 0 Noise: 3.6

Peak table for sample 10 : 111918

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		33.45
2	0	0.00	0.0		34.30
3	0	0.00	0.0		35.85
4	0	0.00	0.0		59.45
5	0	0.00	0.0		60.50
6	0	0.00	0.0		64.95
7	0	0.00	0.0		66.95
8	0	0.00	0.0		67.45
9	0	0.00	0.0		73.15
10	0	0.00	0.0		73.65
11	0	0.00	0.0		74.75
12	0	0.00	0.0		75.75
13	0	0.00	0.0		80.50
14	0	0.00	0.0		89.05
15	0	0.00	0.0		102.60
16	0	0.00	0.0		103.00
17	0	0.00	0.0		105.45
18	0	0.00	0.0		105.85
19	0	0.00	0.0		107.90
20	0	0.00	0.0		116.90
21	0	0.00	0.0		119.30
22	0	0.00	0.0		121.00
23	0	0.00	0.0		121.80
24	0	0.00	0.0		122.60
25	0	0.00	0.0		123.70
26	0	0.00	0.0		124.50
27	0	0.00	0.0		126.30

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-22\2017-08-22_004.xad

Created: 8/22/2017 2:49:18 PM
Modified: 8/22/2017 3:30:36 PM

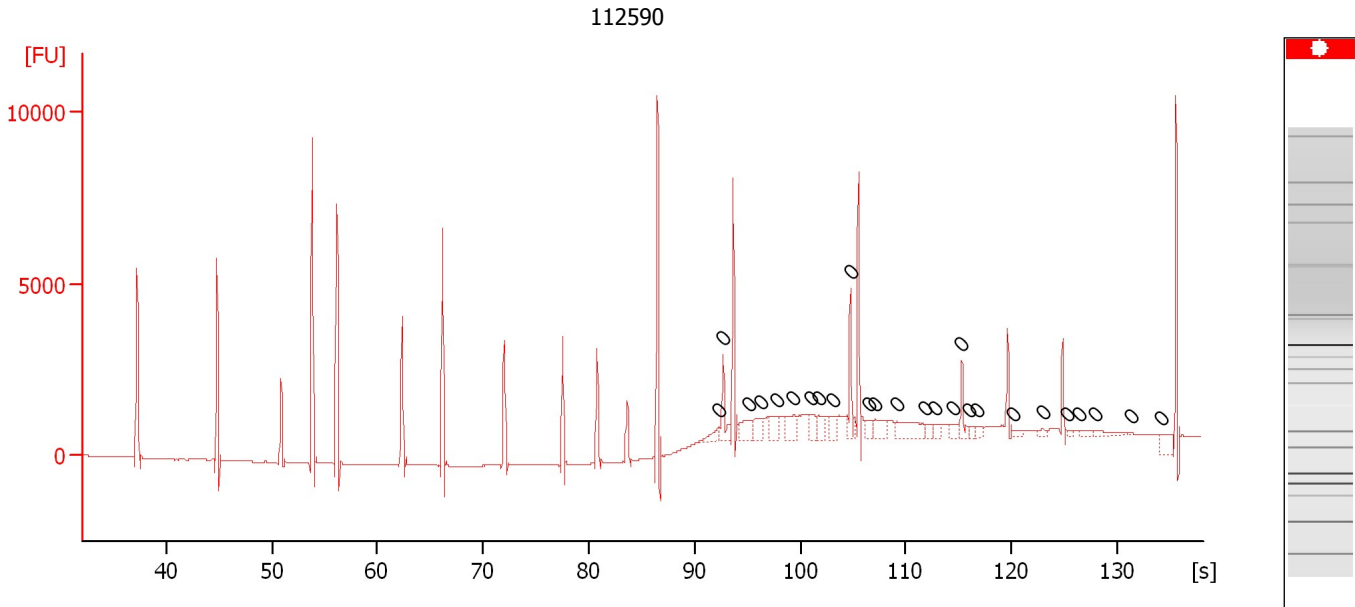
Electropherogram Summary Continued ...**... Peak table for sample 10 : 111918**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		127.45
29	0	0.00	0.0		135.50

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-22\2017-08-22_004.xad

Created: 8/22/2017 2:49:18 PM
 Modified: 8/22/2017 3:30:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 112590

Number of peaks found: 0 Noise: 2.8

Peak table for sample 11 : 112590

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		92.25
2	0	0.00	0.0		92.70
3	0	0.00	0.0		95.20
4	0	0.00	0.0		96.30
5	0	0.00	0.0		97.80
6	0	0.00	0.0		99.40
7	0	0.00	0.0		101.10
8	0	0.00	0.0		101.70
9	0	0.00	0.0		103.05
10	0	0.00	0.0		104.75
11	0	0.00	0.0		106.50
12	0	0.00	0.0		107.10
13	0	0.00	0.0		109.15
14	0	0.00	0.0		111.90
15	0	0.00	0.0		112.70
16	0	0.00	0.0		114.45
17	0	0.00	0.0		115.30
18	0	0.00	0.0		116.05
19	0	0.00	0.0		116.70
20	0	0.00	0.0		120.15
21	0	0.00	0.0		122.95
22	0	0.00	0.0		125.30
23	0	0.00	0.0		126.45
24	0	0.00	0.0		127.85
25	0	0.00	0.0		131.25
26	0	0.00	0.0		134.15

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-22\2017-08-22_004.xad

Created: 8/22/2017 2:49:18 PM
Modified: 8/22/2017 3:30:36 PM

Gel Image

