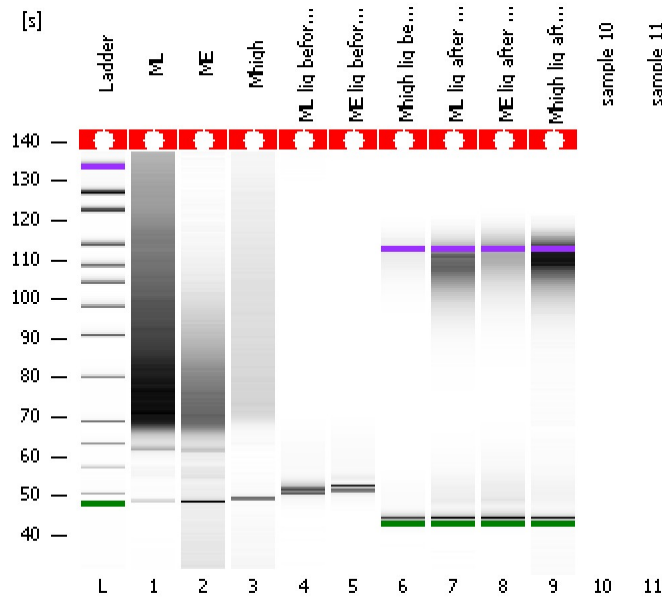


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 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

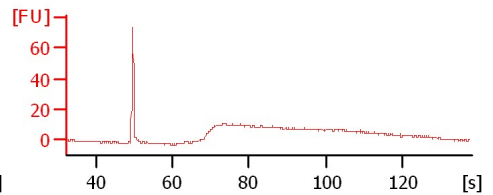
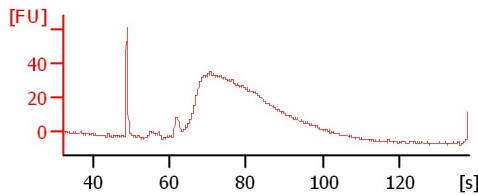
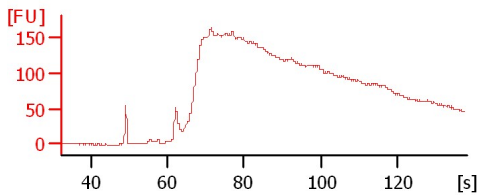
Chip Information:

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

ML

ME

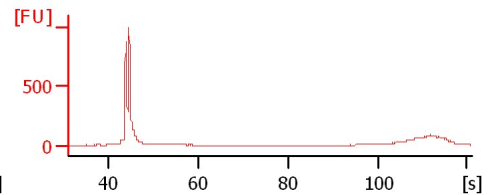
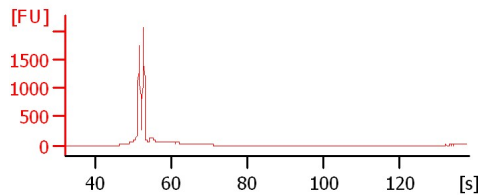
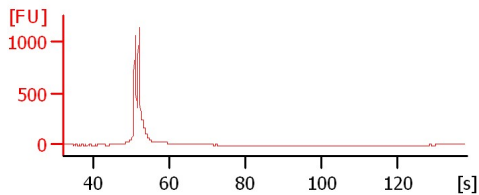
Mhigh



ML lig before cleanup

ME lig before cleanup

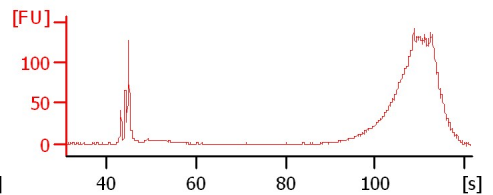
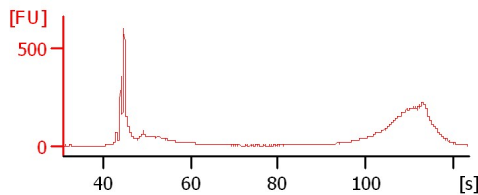
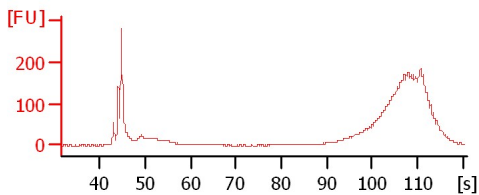
Mhigh lig before cleanup



ML lig after cleanup

ME lig after cleanup

Mhigh lig after cleanup



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ML		<input type="checkbox"/>	✓			
ME		<input type="checkbox"/>	✓			
Mhigh		<input type="checkbox"/>	✓			
ML lig before cleanup		<input type="checkbox"/>	✓			
ME lig before cleanup		<input type="checkbox"/>	✓			
Mhigh lig before cleanup		<input type="checkbox"/>	✓			
ML lig after cleanup		<input type="checkbox"/>	✓			
ME lig after clean up		<input type="checkbox"/>	✓			
Mhigh lig after clean up		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 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

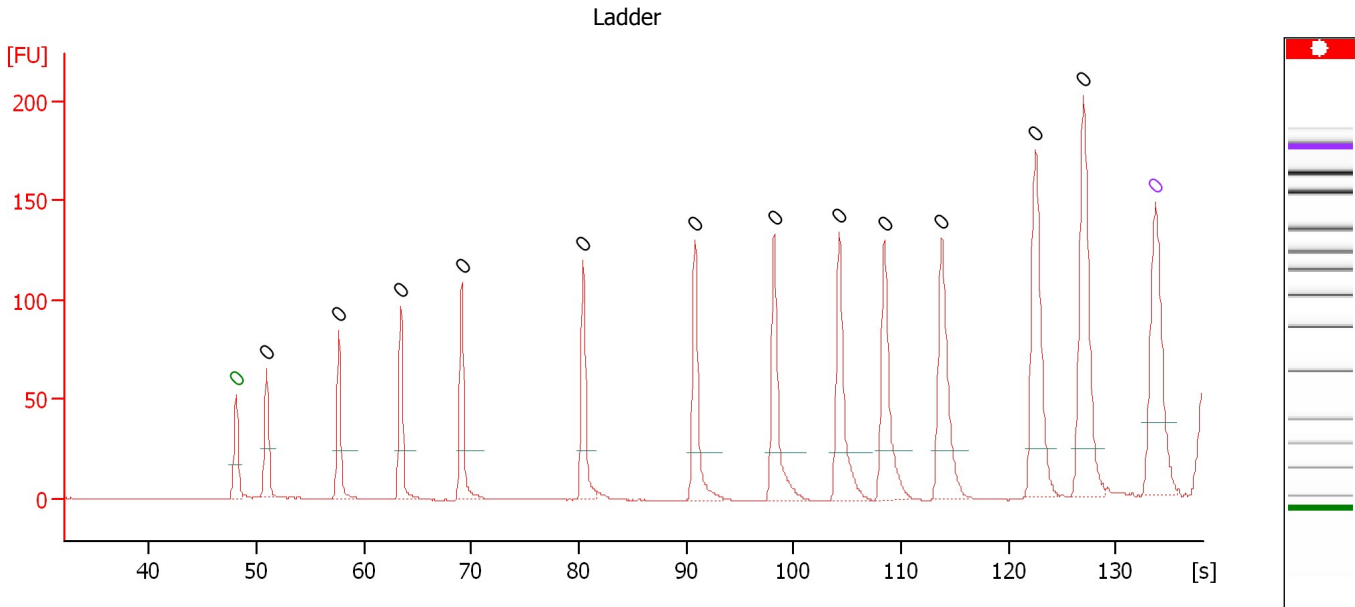
Ladder

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:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

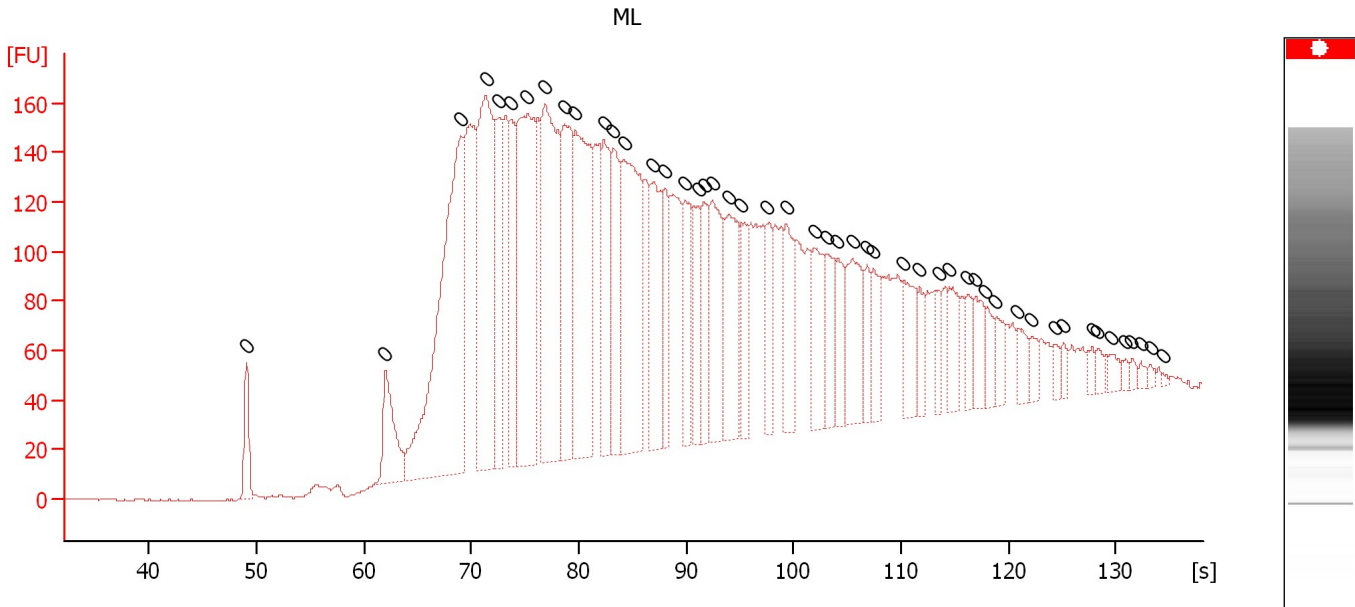
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.10
2	0	0.00	0.0	Ladder Peak	50.95
3	0	0.00	0.0	Ladder Peak	57.65
4	0	0.00	0.0	Ladder Peak	63.45
5	0	0.00	0.0	Ladder Peak	69.10
6	0	0.00	0.0	Ladder Peak	80.40
7	0	0.00	0.0	Ladder Peak	90.80
8	0	0.00	0.0	Ladder Peak	98.20
9	0	0.00	0.0	Ladder Peak	104.25
10	0	0.00	0.0	Ladder Peak	108.45
11	0	0.00	0.0	Ladder Peak	113.80
12	0	0.00	0.0	Ladder Peak	122.50
13	0	0.00	0.0	Ladder Peak	127.00
14	0	0.00	0.0	Upper Marker	133.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ML

Number of peaks found: 0 Noise: 0.3

Peak table for sample 1 : ML

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.05
2	0	0.00	0.0		62.00
3	0	0.00	0.0		69.05
4	0	0.00	0.0		71.35
5	0	0.00	0.0		72.50
6	0	0.00	0.0		73.65
7	0	0.00	0.0		75.20
8	0	0.00	0.0		76.90
9	0	0.00	0.0		78.65
10	0	0.00	0.0		79.70
11	0	0.00	0.0		82.35
12	0	0.00	0.0		83.20
13	0	0.00	0.0		84.25
14	0	0.00	0.0		86.95
15	0	0.00	0.0		88.05
16	0	0.00	0.0		89.95
17	0	0.00	0.0		91.10
18	0	0.00	0.0		91.65
19	0	0.00	0.0		92.40
20	0	0.00	0.0		94.00
21	0	0.00	0.0		95.15
22	0	0.00	0.0		97.60
23	0	0.00	0.0		99.30
24	0	0.00	0.0		101.95
25	0	0.00	0.0		103.10
26	0	0.00	0.0		104.10
27	0	0.00	0.0		105.50

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 :

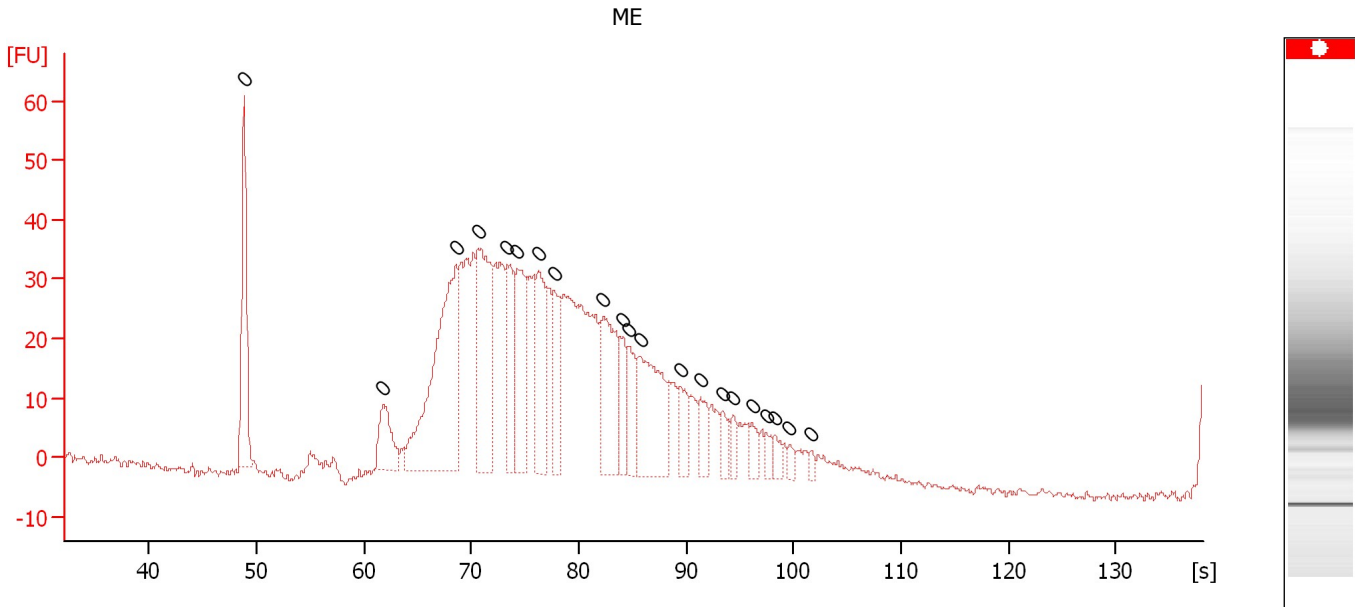
ML

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		106.80
29	0	0.00	0.0		107.40
30	0	0.00	0.0		110.25
31	0	0.00	0.0		111.70
32	0	0.00	0.0		113.45
33	0	0.00	0.0		114.50
34	0	0.00	0.0		116.20
35	0	0.00	0.0		116.95
36	0	0.00	0.0		117.90
37	0	0.00	0.0		118.80
38	0	0.00	0.0		120.90
39	0	0.00	0.0		122.20
40	0	0.00	0.0		124.35
41	0	0.00	0.0		125.15
42	0	0.00	0.0		127.80
43	0	0.00	0.0		128.35
44	0	0.00	0.0		129.65
45	0	0.00	0.0		130.95
46	0	0.00	0.0		131.50
47	0	0.00	0.0		132.35
48	0	0.00	0.0		133.25
49	0	0.00	0.0		134.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ME

Number of peaks found: 0 Noise: 0.6

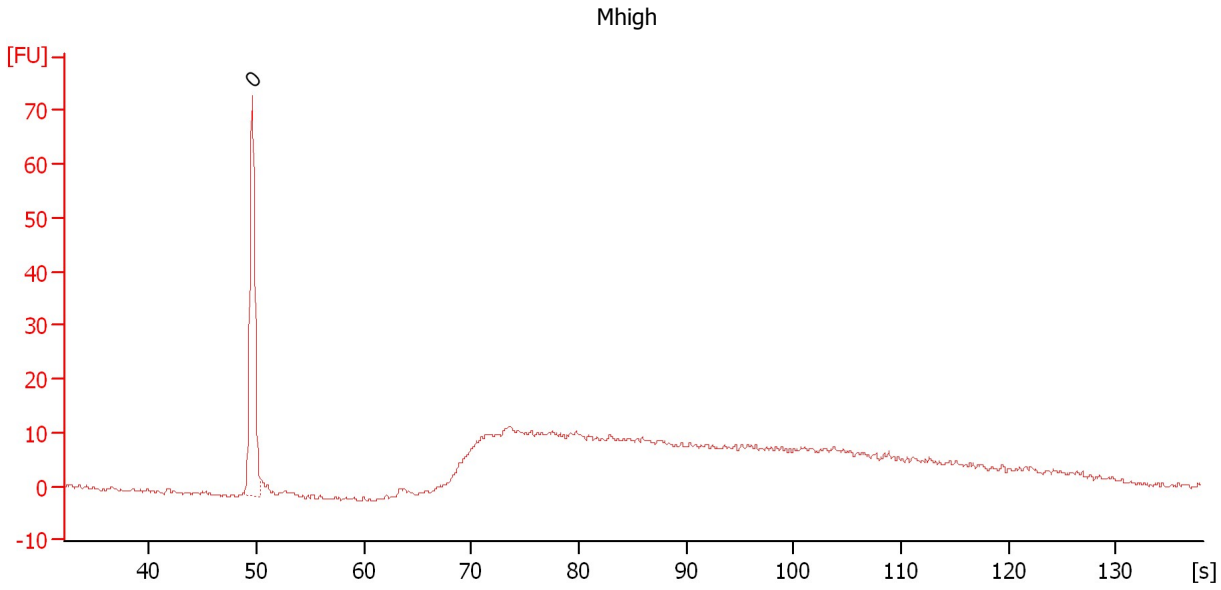
Peak table for sample 2 : ME

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		48.85
2	0	0.00	0.0		61.80
3	0	0.00	0.0		68.55
4	0	0.00	0.0		70.65
5	0	0.00	0.0		73.35
6	0	0.00	0.0		74.30
7	0	0.00	0.0		76.25
8	0	0.00	0.0		77.70
9	0	0.00	0.0		82.25
10	0	0.00	0.0		84.05
11	0	0.00	0.0		84.65
12	0	0.00	0.0		85.70
13	0	0.00	0.0		89.45
14	0	0.00	0.0		91.35
15	0	0.00	0.0		93.45
16	0	0.00	0.0		94.40
17	0	0.00	0.0		96.15
18	0	0.00	0.0		97.45
19	0	0.00	0.0		98.30
20	0	0.00	0.0		99.65
21	0	0.00	0.0		101.65

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Mhigh

Number of peaks found: 0 Noise: 0.4

Peak table for sample 3 : Mhigh

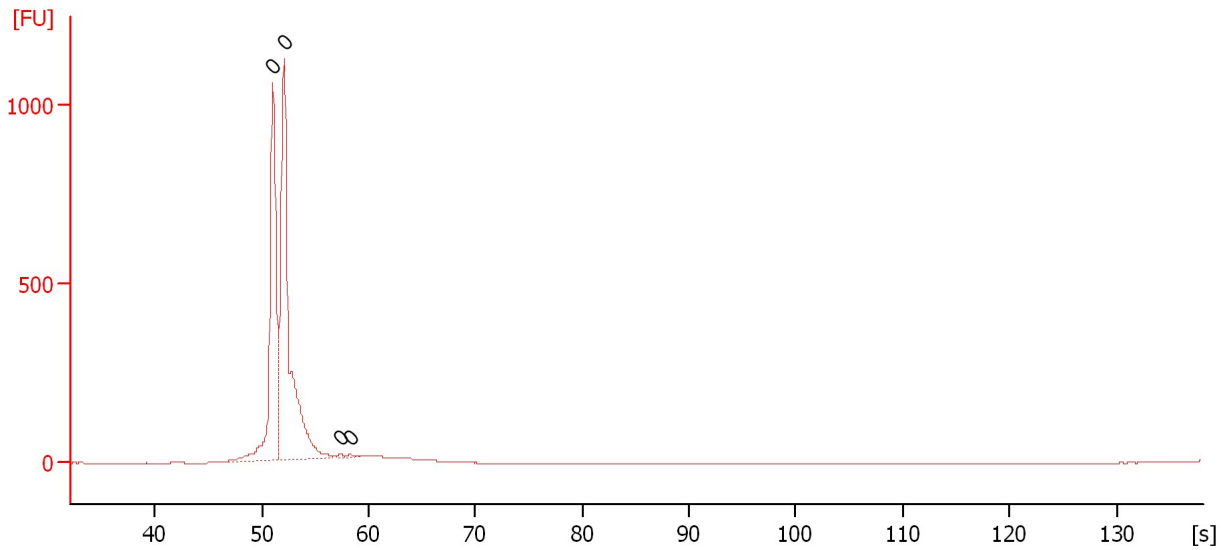
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.60

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

ML lig before cleanup



Overall Results for sample 4 : ML lig before cleanup

Number of peaks found: 0 Noise: 0.2

Peak table for sample 4 : ML lig before cleanup

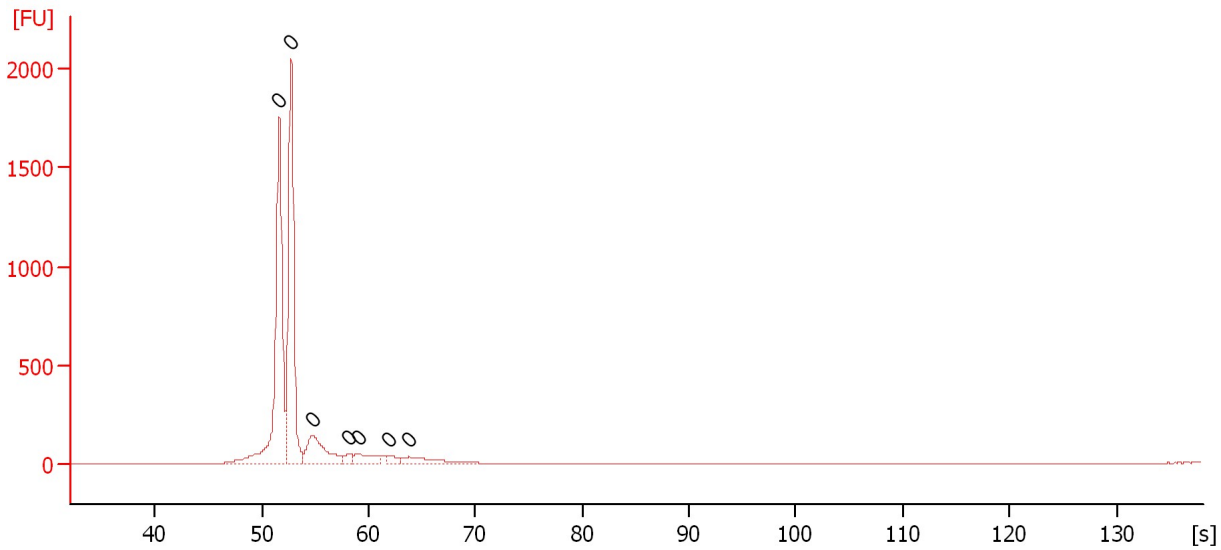
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.05
2	0	0.00	0.0		52.10
3	0	0.00	0.0		57.40
4	0	0.00	0.0		58.25

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

ME lig before cleanup



Overall Results for sample 5 : ME lig before cleanup

Number of peaks found: 0 Noise: 0.4

Peak table for sample 5 : ME lig before cleanup

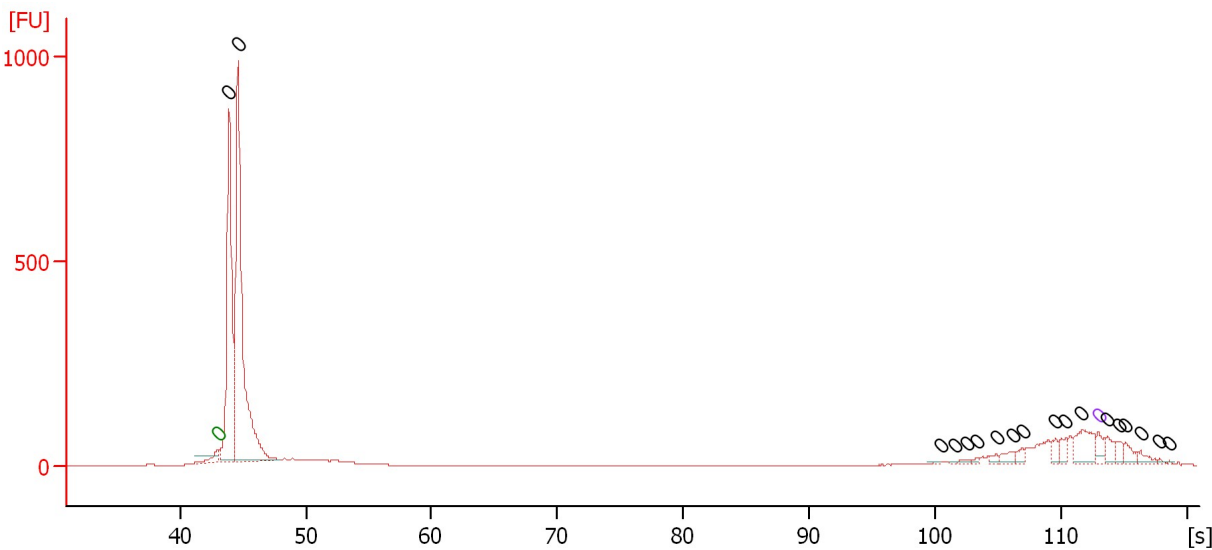
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.65
2	0	0.00	0.0		52.75
3	0	0.00	0.0		54.75
4	0	0.00	0.0		58.20
5	0	0.00	0.0		59.10
6	0	0.00	0.0		61.90
7	0	0.00	0.0		63.85

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

Mhigh lig before cleanup



Overall Results for sample 6 : Mhigh lig before cleanup

Number of peaks found: 18 Noise: 0.2

Peak table for sample 6 : Mhigh lig before cleanup

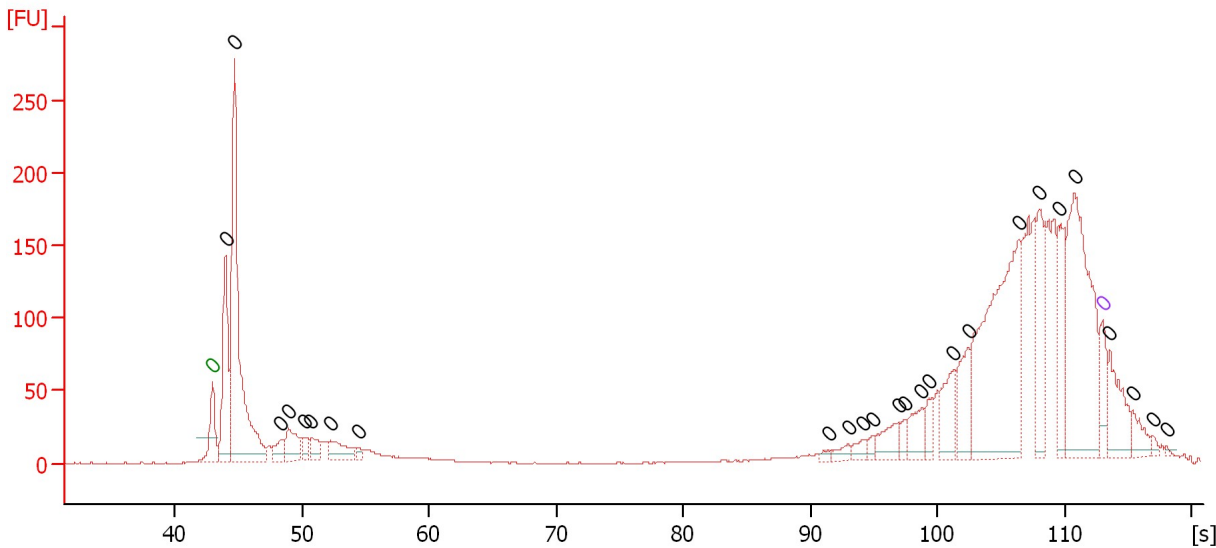
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		43.93
3	0	0.00	0.0		44.66
4	0	0.00	0.0		100.43
5	0	0.00	0.0		101.62
6	0	0.00	0.0		102.64
7	0	0.00	0.0		103.32
8	0	0.00	0.0		104.89
9	0	0.00	0.0		106.21
10	0	0.00	0.0		106.97
11	0	0.00	0.0		109.60
12	0	0.00	0.0		110.37
13	0	0.00	0.0		111.68
14	0	0.00	0.0	Upper Marker	113.00
15	0	0.00	0.0		113.76
16	0	0.00	0.0		114.66
17	0	0.00	0.0		115.16
18	0	0.00	0.0		116.35
19	0	0.00	0.0		117.88
20	0	0.00	0.0		118.60

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

ML lig after cleanup



Overall Results for sample 7 : ML lig after cleanup

Number of peaks found: 26 Noise: 0.4

Peak table for sample 7 : ML lig after cleanup

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		44.01
3	0	0.00	0.0		44.73
4	0	0.00	0.0		48.41
5	0	0.00	0.0		48.96
6	0	0.00	0.0		50.27
7	0	0.00	0.0		50.77
8	0	0.00	0.0		52.29
9	0	0.00	0.0		54.45
10	0	0.00	0.0		91.41
11	0	0.00	0.0		93.02
12	0	0.00	0.0		94.16
13	0	0.00	0.0		94.92
14	0	0.00	0.0		96.95
15	0	0.00	0.0		97.41
16	0	0.00	0.0		98.81
17	0	0.00	0.0		99.35
18	0	0.00	0.0		101.30
19	0	0.00	0.0		102.44
20	0	0.00	0.0		106.41
21	0	0.00	0.0		108.06
22	0	0.00	0.0		109.54
23	0	0.00	0.0		110.80
24	0	0.00	0.0	Upper Marker	113.00
25	0	0.00	0.0		113.59
26	0	0.00	0.0		115.37
27	0	0.00	0.0		117.01

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : ML lig after cleanup

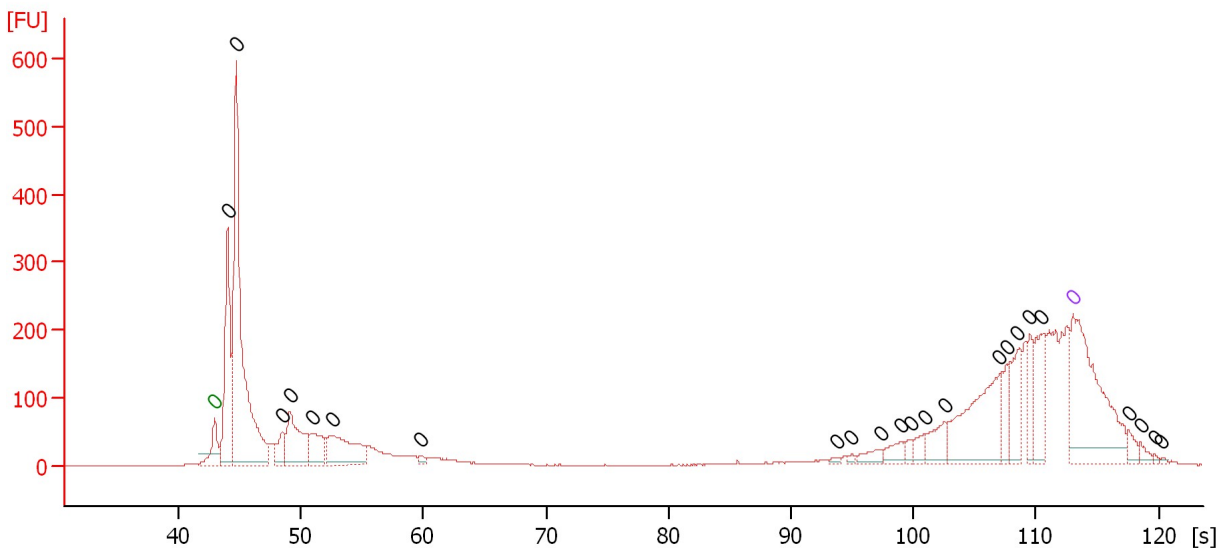
Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		118.03

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

ME lig after clean up



Overall Results for sample 8 : ME lig after clean up

Number of peaks found: 23 Noise: 0.4

Peak table for sample 8 : ME lig after clean up

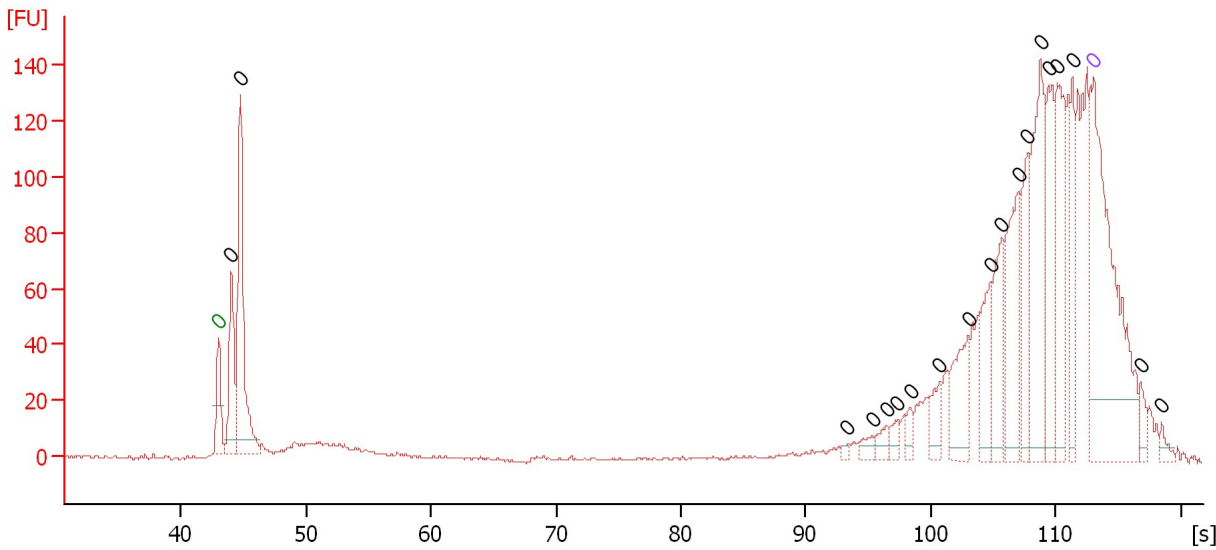
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		44.05
3	0	0.00	0.0		44.75
4	0	0.00	0.0		48.56
5	0	0.00	0.0		49.13
6	0	0.00	0.0		50.97
7	0	0.00	0.0		52.59
8	0	0.00	0.0		59.86
9	0	0.00	0.0		93.73
10	0	0.00	0.0		94.95
11	0	0.00	0.0		97.36
12	0	0.00	0.0		98.98
13	0	0.00	0.0		99.86
14	0	0.00	0.0		100.91
15	0	0.00	0.0		102.57
16	0	0.00	0.0		107.04
17	0	0.00	0.0		107.57
18	0	0.00	0.0		108.49
19	0	0.00	0.0		109.50
20	0	0.00	0.0		110.37
21	0	0.00	0.0	Upper Marker	113.00
22	0	0.00	0.0		117.56
23	0	0.00	0.0		118.52
24	0	0.00	0.0		119.66
25	0	0.00	0.0		120.27

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Electropherogram Summary Continued ...

Mhigh lig after clean up



Overall Results for sample 9 : Mhigh lig after clean up

Number of peaks found: 19 Noise: 0.4

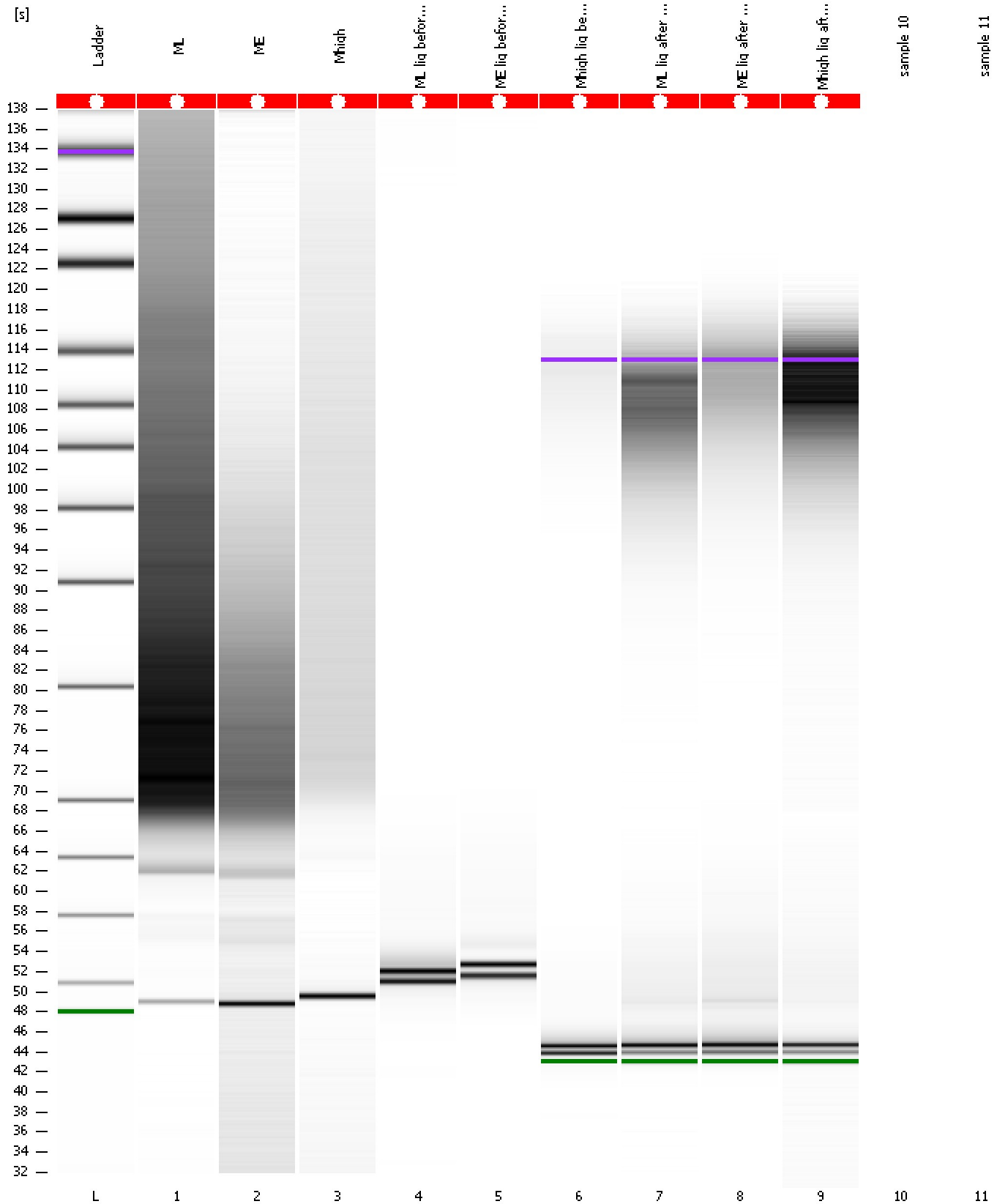
Peak table for sample 9 : Mhigh lig after clean up

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		44.03
3	0	0.00	0.0		44.76
4	0	0.00	0.0		93.36
5	0	0.00	0.0		95.30
6	0	0.00	0.0		96.46
7	0	0.00	0.0		97.32
8	0	0.00	0.0		98.39
9	0	0.00	0.0		100.71
10	0	0.00	0.0		102.99
11	0	0.00	0.0		104.75
12	0	0.00	0.0		105.61
13	0	0.00	0.0		107.03
14	0	0.00	0.0		107.76
15	0	0.00	0.0		108.79
16	0	0.00	0.0		109.43
17	0	0.00	0.0		110.08
18	0	0.00	0.0		111.32
19	0	0.00	0.0	Upper Marker	113.00
20	0	0.00	0.0		116.78
21	0	0.00	0.0		118.46

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
Modified: 1/8/2015 5:47:30 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad

Created: 1/8/2015 5:11:50 PM
 Modified: 1/8/2015 5:47:30 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		1/8/2015 5:47:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-08\2015-01-08_006.xad)		Instrument	Run		1/8/2015 5:11:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/8/2015 5:11:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/8/2015 5:11:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/8/2015 5:11:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/8/2015 5:11:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/8/2015 5:11:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/8/2015 5:11:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1