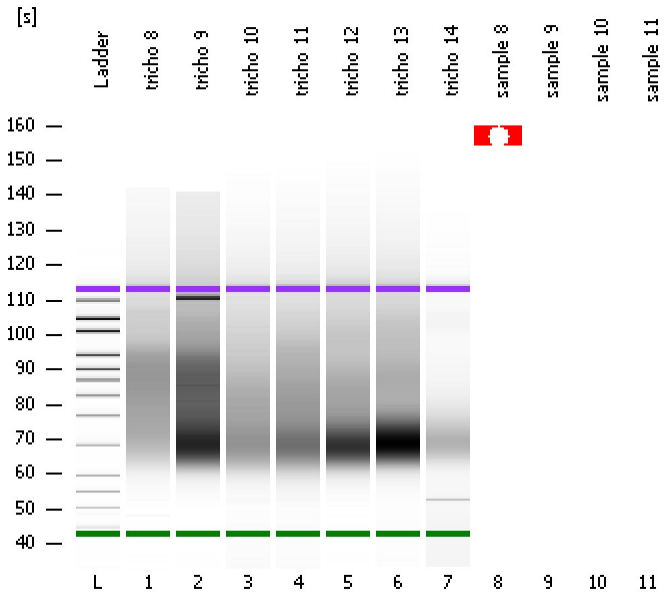


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
Modified: 6/16/2015 4:54:09 PM

### Electrophoresis File Run Summary



#### Instrument Information:

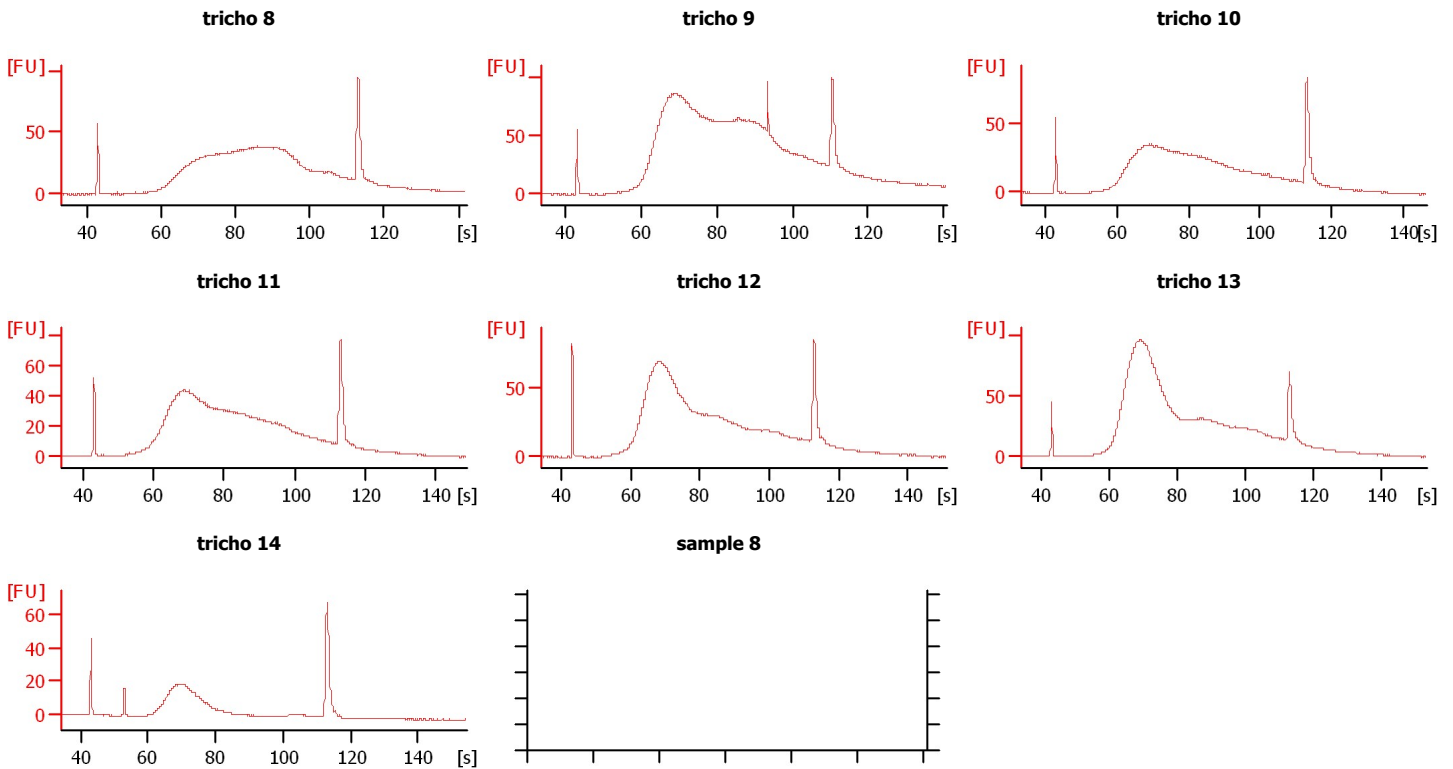
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
 Modified: 6/16/2015 4:54:09 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
tricho 8		<input type="checkbox"/>	✓			
tricho 9		<input type="checkbox"/>	✓			
tricho 10		<input type="checkbox"/>	✓			
tricho 11		<input type="checkbox"/>	✓			
tricho 12		<input type="checkbox"/>	✓			
tricho 13		<input type="checkbox"/>	✓			
tricho 14		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✗			
sample 9		<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\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
 Modified: 6/16/2015 4:54:09 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

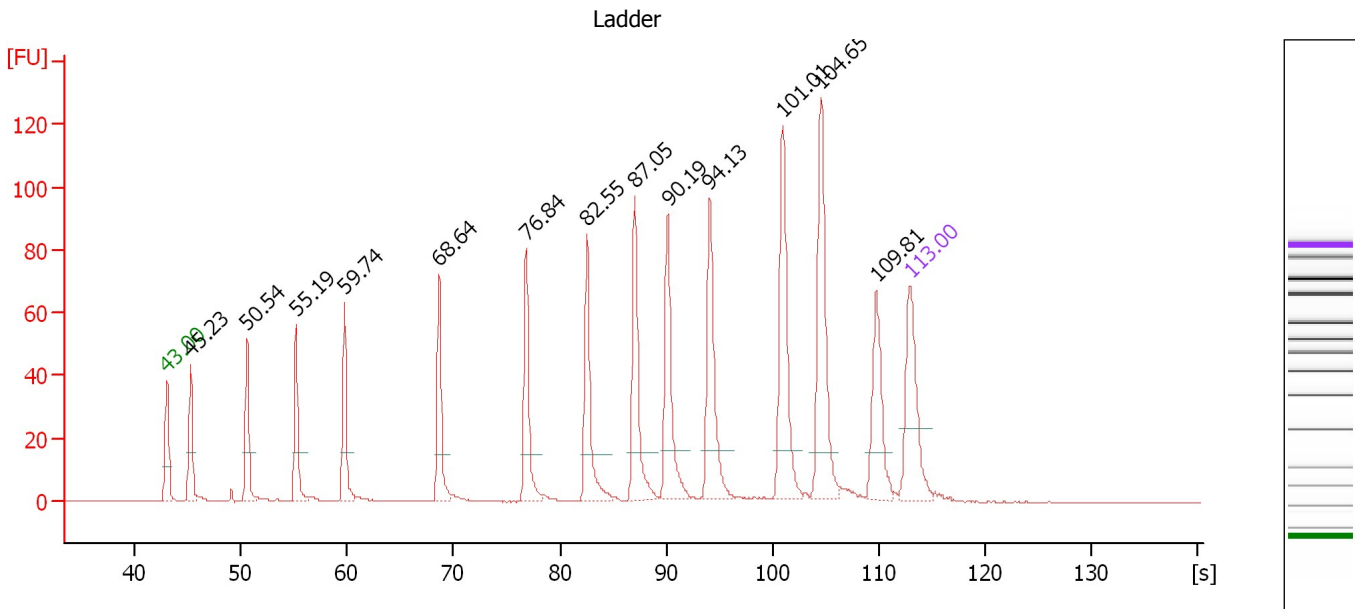
**Ladder**

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\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

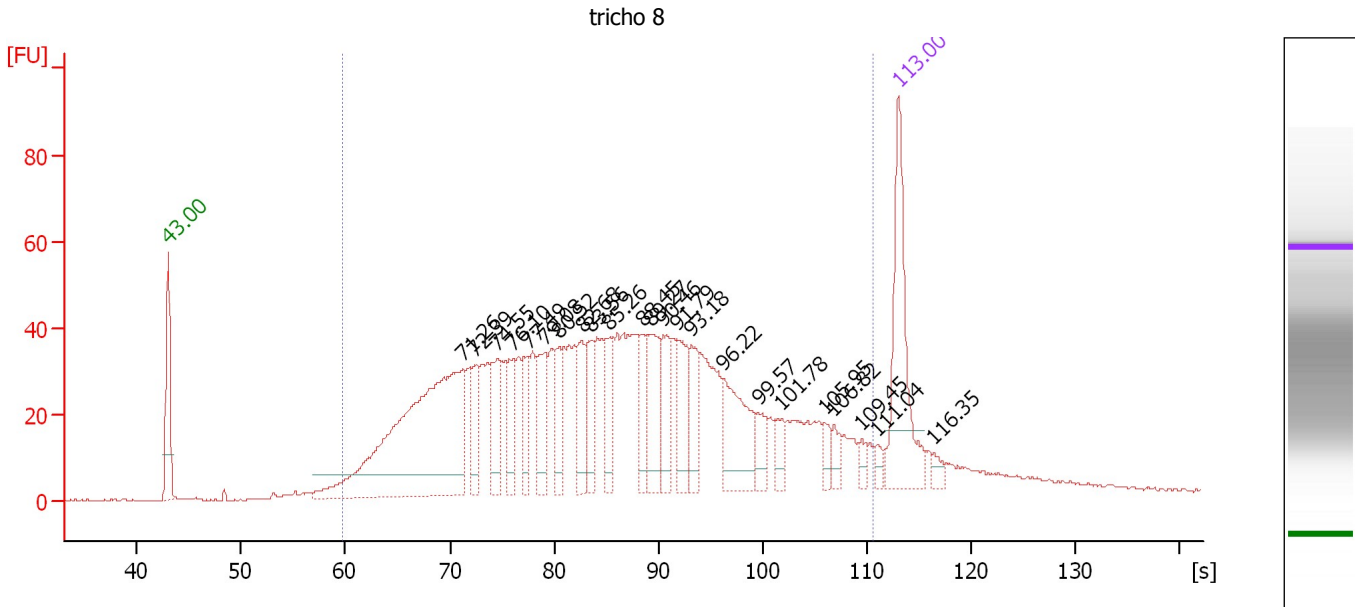
**Peak table for Ladder**

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	45.23
3	100	150.00	2,272.7	Ladder Peak	50.54
4	150	150.00	1,515.2	Ladder Peak	55.19
5	200	150.00	1,136.4	Ladder Peak	59.74
6	300	150.00	757.6	Ladder Peak	68.64
7	400	150.00	568.2	Ladder Peak	76.84
8	500	150.00	454.5	Ladder Peak	82.55
9	600	150.00	378.8	Ladder Peak	87.05
10	700	150.00	324.7	Ladder Peak	90.19
11	1,000	150.00	227.3	Ladder Peak	94.13
12	2,000	150.00	113.6	Ladder Peak	101.01
13	3,000	150.00	75.8	Ladder Peak	104.65
14	7,000	150.00	32.5	Ladder Peak	109.81
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : tricho 8**

Number of peaks found: 23                      Corr. Area 1: 1,553.7  
 Noise: 0.1

**Peak table for sample 1 : tricho 8**


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	332	312.08	1,424.7		71.26
3	346	28.33	124.1		72.39
4	372	40.26	163.9		74.55
5	391	30.84	119.5		76.10
6	411	28.50	105.0		77.49
7	439	40.47	139.6		79.08
8	464	26.91	87.8		80.52
9	503	33.04	99.5		82.68
10	522	30.34	88.0		83.56
11	560	31.30	84.7		85.26
12	644	24.58	57.8		88.45
13	671	47.09	106.4		89.27
14	720	31.42	66.1		90.46
15	822	38.36	70.7		91.79
16	928	25.74	42.0		93.18
17	1,303	54.17	63.0		96.22
18	1,790	14.52	12.3		99.57
19	2,210	10.63	7.3		101.78
20	4,003	8.37	3.2		105.95
21	4,682	8.91	2.9		106.82
22	6,717	5.65	1.3		109.45
23	8,305	4.50	0.8		111.04
24	10,380	75.00	10.9	Upper Marker	113.00
25	13,929	0.00	0.0		116.35

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
Modified: 6/16/2015 4:54:09 PM

**Electropherogram Summary Continued ...**

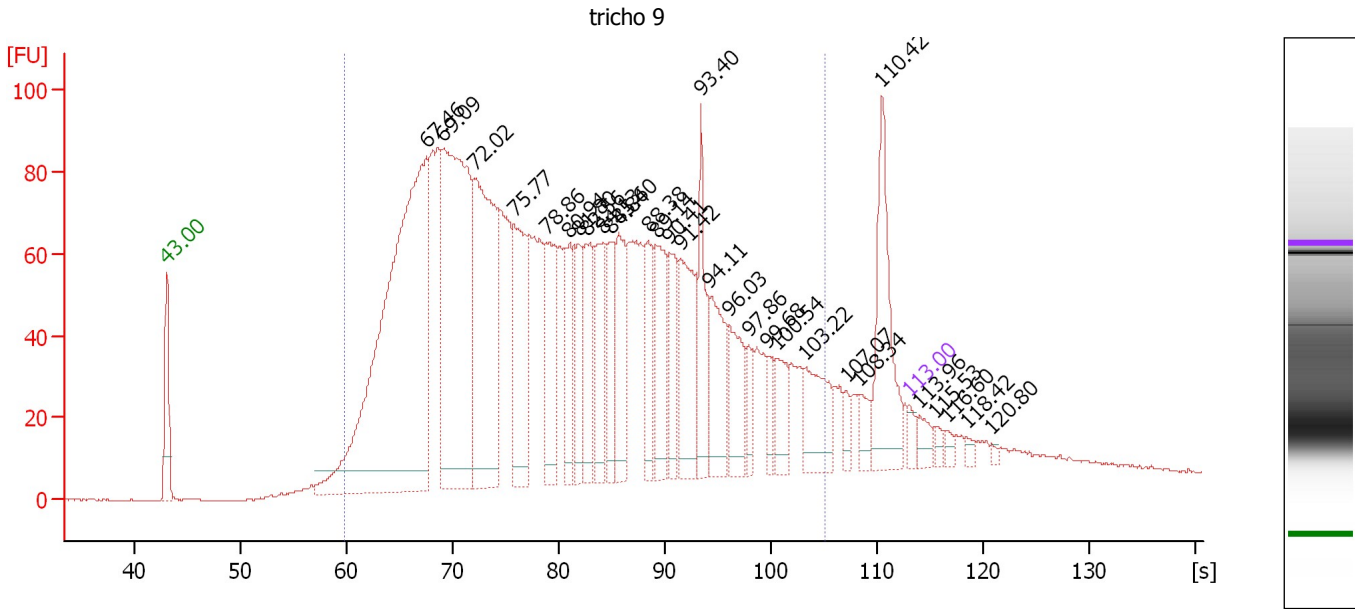
... Region table for sample 1 : tricho 8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]
200	1,002	7,819	1,553.7	4,702.3	 95	100.0	1,439.74

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : tricho 9**

Number of peaks found: 30                      Corr. Area 1: 3,100.0  
 Noise: 0.2

**Peak table for sample 2 : tricho 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	287	6,803.25	35,946.1		67.46
3	305	3,989.65	19,793.6		69.09
4	341	2,640.85	11,725.3		72.02
5	387	1,278.77	5,006.5		75.77
6	435	941.11	3,274.8		78.86
7	472	638.87	2,051.9		80.94
8	487	595.78	1,854.3		81.80
9	500	701.24	2,124.4		82.56
10	535	701.58	1,986.8		84.13
11	551	482.67	1,327.8		84.84
12	568	712.49	1,901.7		85.60
13	642	509.70	1,202.1		88.38
14	667	653.79	1,485.9		89.14
15	717	540.43	1,142.4		90.41
16	794	922.68	1,761.2		91.42
17	944	618.30	992.4		93.40
18	998	669.91	1,017.1		94.11
19	1,276	483.54	574.2		96.03
20	1,541	183.57	180.5		97.86
21	1,806	148.99	125.0		99.68
22	1,931	259.05	203.2		100.54
23	2,607	479.18	278.5		103.22
24	4,876	91.79	28.5		107.07
25	5,858	138.90	35.9		108.34

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : tricho 9**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	7,640	922.65	183.0		110.42
27	10,380	75.00	10.9	Upper Marker	113.00
28	11,401	0.00	0.0		113.96
29	13,066	0.00	0.0		115.53
30	14,195	0.00	0.0		116.60
31	16,129	0.00	0.0		118.42
32	18,654	0.00	0.0		120.80

**Region table for sample 2 : tricho 9**

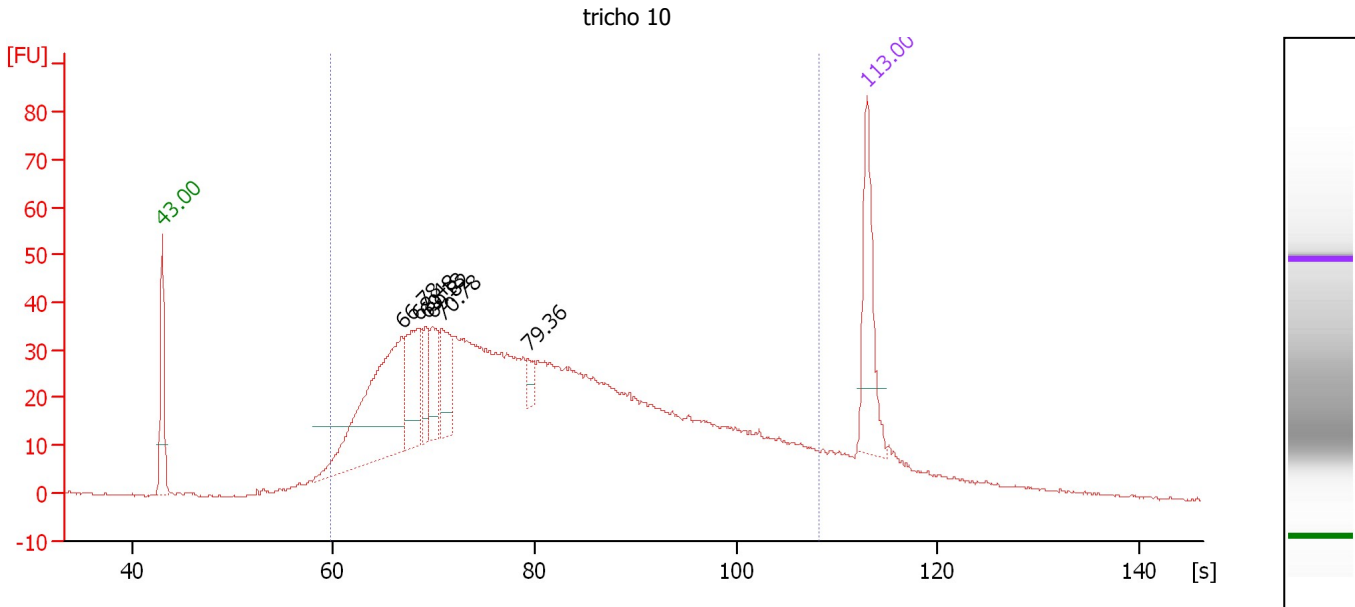
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	647	3,246	3,100.0	123,500.3	89	84.5	32,309.24



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : tricho 10**

Number of peaks found: 6                      Corr. Area 1: 1,364.8  
 Noise: 0.3

**Peak table for sample 3 : tricho 10**

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	279	267.10	1,450.3		66.78
3	298	97.11	493.4		68.48
4	307	38.39	189.8		69.18
5	314	50.48	243.3		69.82
6	326	58.76	273.1		70.78
7	444	14.85	50.7		79.36
8	10,380	75.00	10.9	Upper Marker	113.00

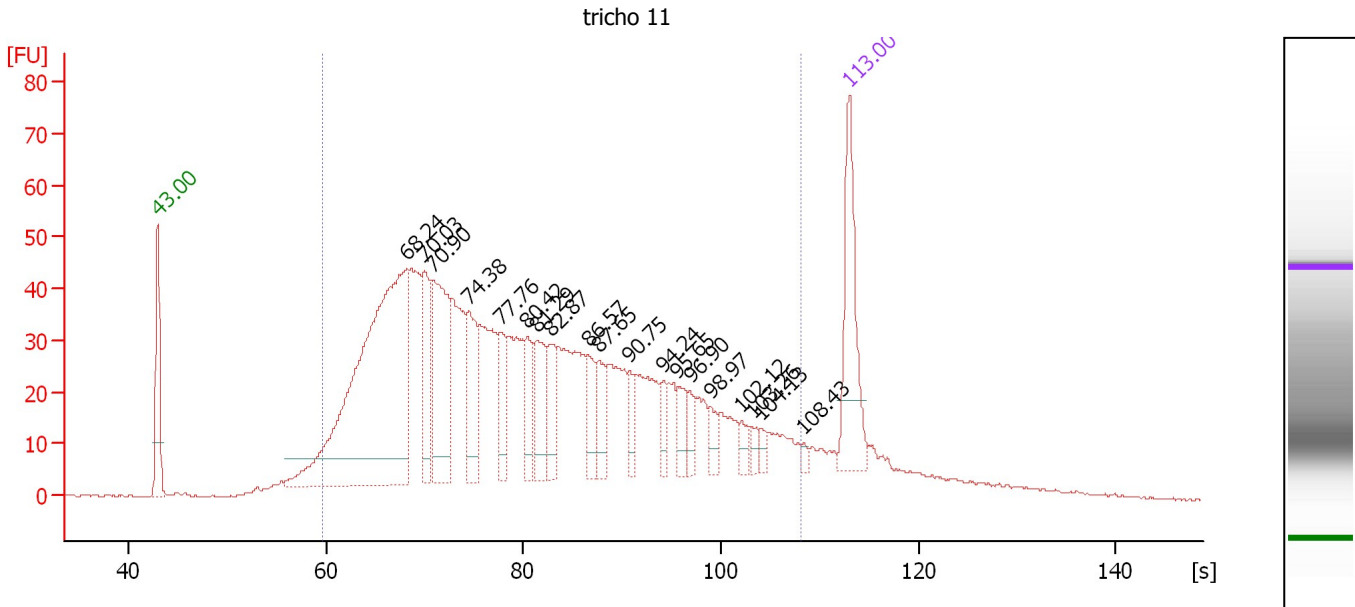
**Region table for sample 3 : tricho 10**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	766	5,784	1,364.8	7,643.8	91	100.0	1,984.84

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : tricho 11**

Number of peaks found: 19                      Corr. Area 1: 1,591.8  
 Noise: 0.2

**Peak table for sample 4 : tricho 11**

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	295	508.45	2,607.6		68.24
3	317	65.22	311.8		70.03
4	328	138.82	642.1		70.90
5	370	66.54	272.4		74.38
6	416	40.03	145.8		77.76
7	463	37.04	121.3		80.42
8	478	55.74	176.7		81.29
9	507	31.94	95.4		82.87
10	589	30.39	78.2		86.57
11	619	30.42	74.4		87.65
12	743	18.49	37.7		90.75
13	1,015	14.36	21.4		94.24
14	1,220	18.72	23.2		95.65
15	1,402	12.47	13.5		96.90
16	1,703	11.37	10.1		98.97
17	2,305	8.68	5.7		102.12
18	2,618	7.48	4.3		103.26
19	2,857	5.34	2.8		104.13
20	5,928	3.52	0.9		108.43
21	10,380	75.00	10.9	Upper Marker	113.00

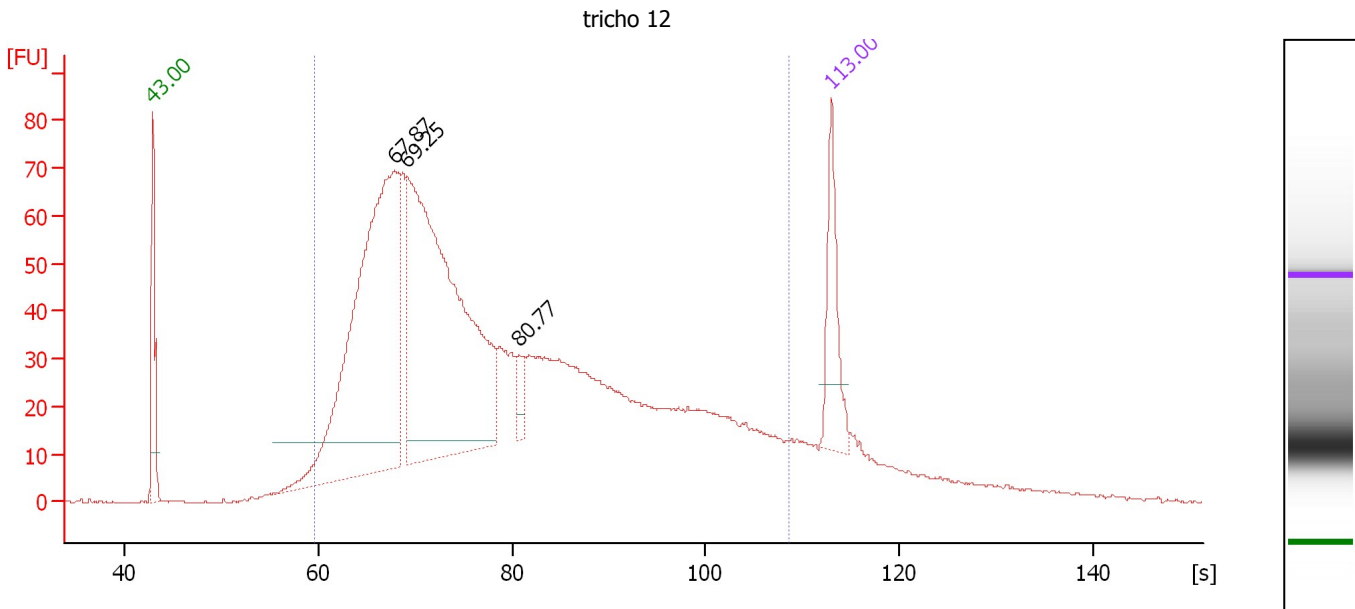
**Region table for sample 4 : tricho 11**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	750	5,771	1,591.8	8,006.3	91	100.0	2,061.86

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : tricho 12**

Number of peaks found: 3                      Corr. Area 1: 1,954.7  
 Noise: 0.2

**Peak table for sample 5 : tricho 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	291	763.05	3,969.4		67.87
3	307	783.22	3,860.4		69.25
4	469	27.82	89.9		80.77
5	10,380	75.00	10.9	Upper Marker	113.00

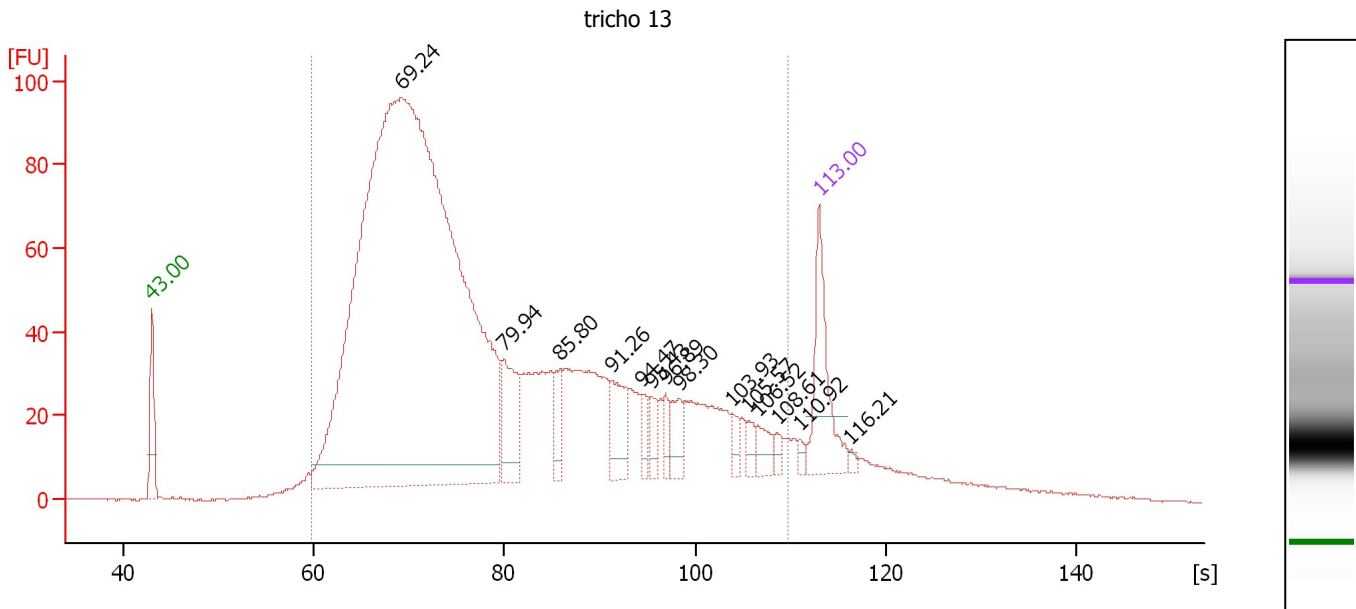
**Region table for sample 5 : tricho 12**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	730	6,082	1,954.7	11,602.0	92	100.0	2,835.33

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : tricho 13**

Number of peaks found: 14                      Corr. Area 1: 2,461.3  
 Noise: 0.2

**Peak table for sample 6 : tricho 13**

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	307	2,184.66	10,770.8		69.24
3	454	82.24	274.2		79.94
4	572	33.43	88.5		85.80
5	782	53.12	103.0		91.26
6	1,049	15.69	22.7		94.47
7	1,188	19.21	24.5		95.43
8	1,401	14.02	15.2		96.89
9	1,606	23.03	21.7		98.30
10	2,802	10.69	5.8		103.93
11	3,707	9.86	4.0		105.57
12	4,449	16.88	5.7		106.52
13	6,065	6.49	1.6		108.61
14	8,170	5.44	1.0		110.92
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,785	0.00	0.0		116.21

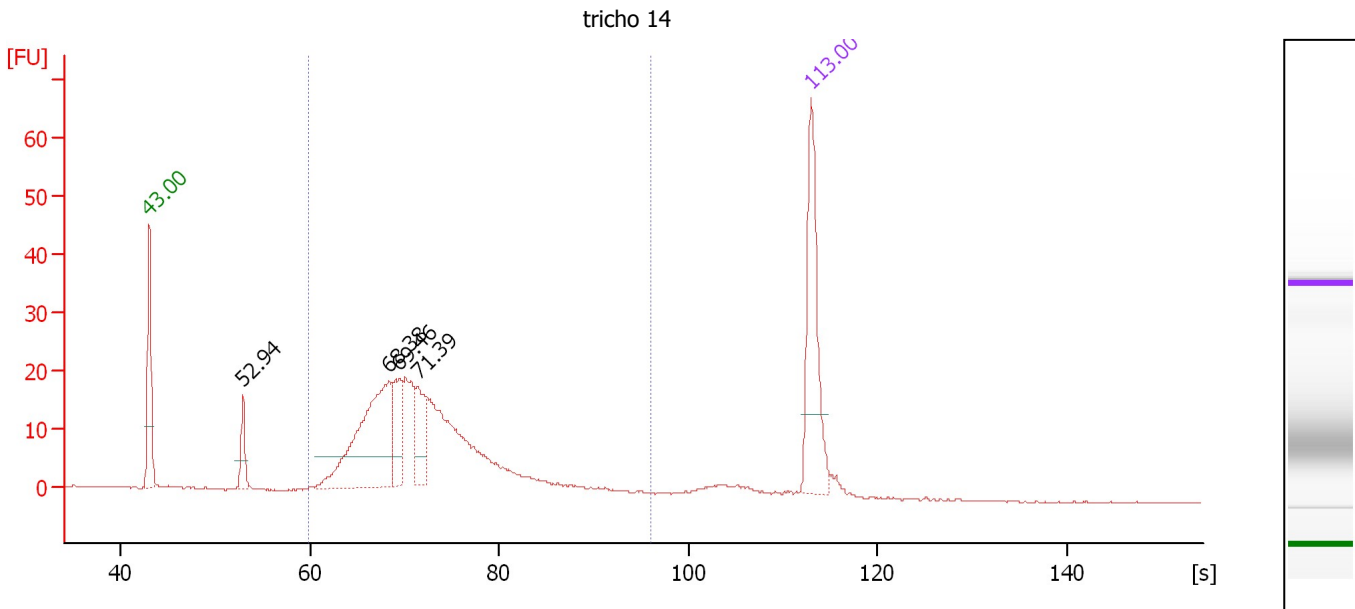
**Region table for sample 6 : tricho 13**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	782	6,984	2,461.3	12,826.1	94	100.0	3,153.82

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : tricho 14**

Number of peaks found: 4                      Corr. Area 1: 322.8  
 Noise: 0.1

**Peak table for sample 7 : tricho 14**

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	126	28.21	339.8		52.94
3	297	162.69	830.0		68.38
4	310	43.15	211.0		69.46
5	333	36.10	164.0		71.39
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 7 : tricho 14**

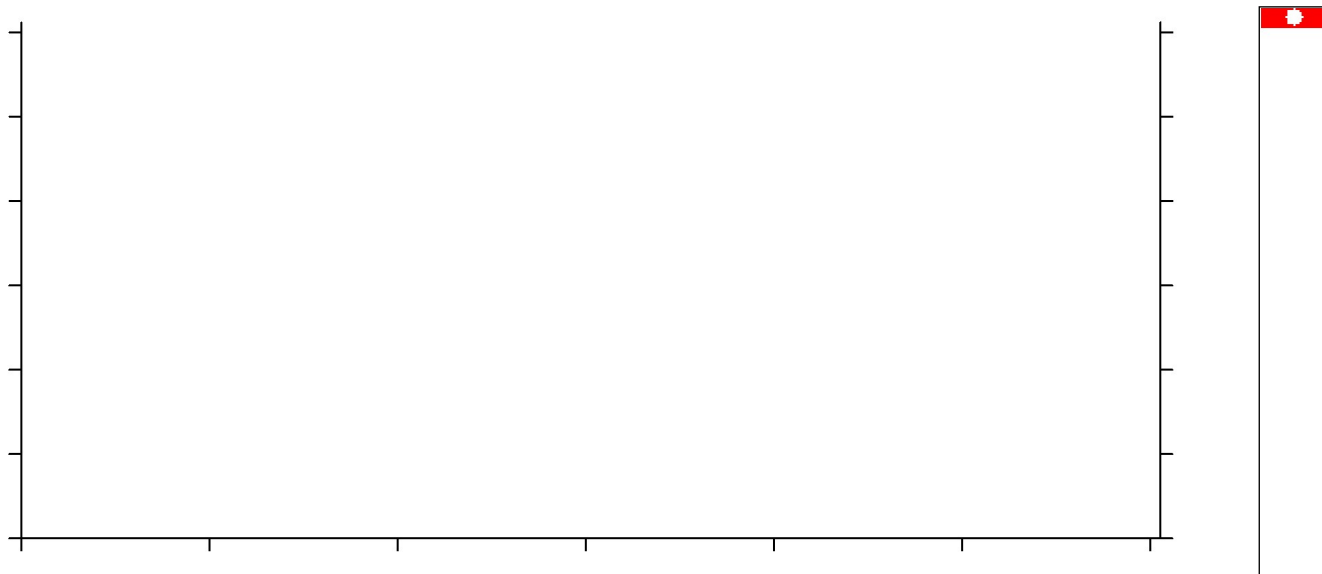
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	351	1,277	322.8	2,326.1	91	28.6	500.03

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
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**Electropherogram Summary Continued ...**

sample 8



**Setpoint Deviations for sample 8 : sample 8**

End Analysis Time Range [s] : 6.5

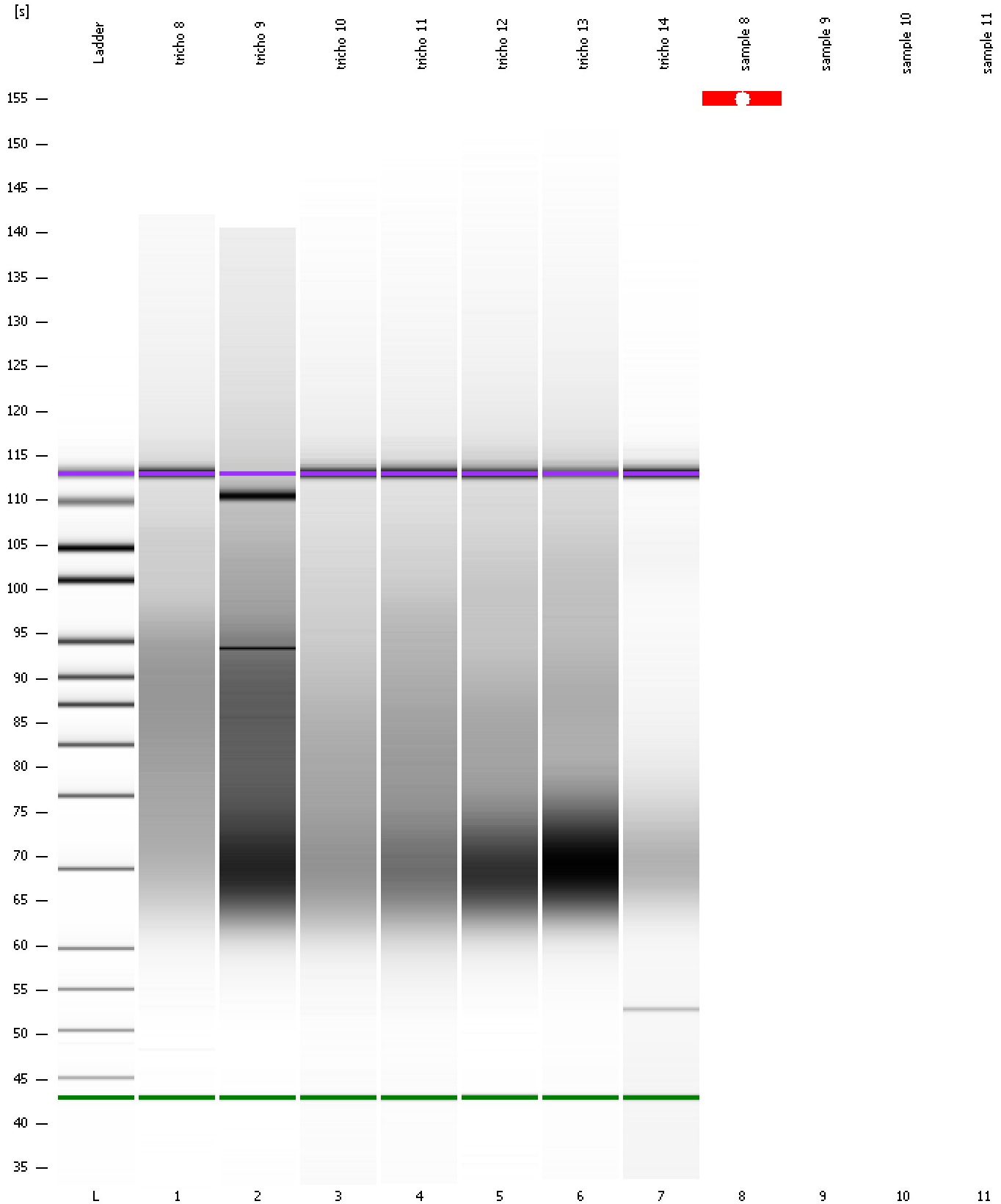
**Overall Results for sample 8 : sample 8**

Noise: 0.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16\_005.xad

Created: 6/16/2015 4:24:30 PM  
Modified: 6/16/2015 4:54:09 PM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.