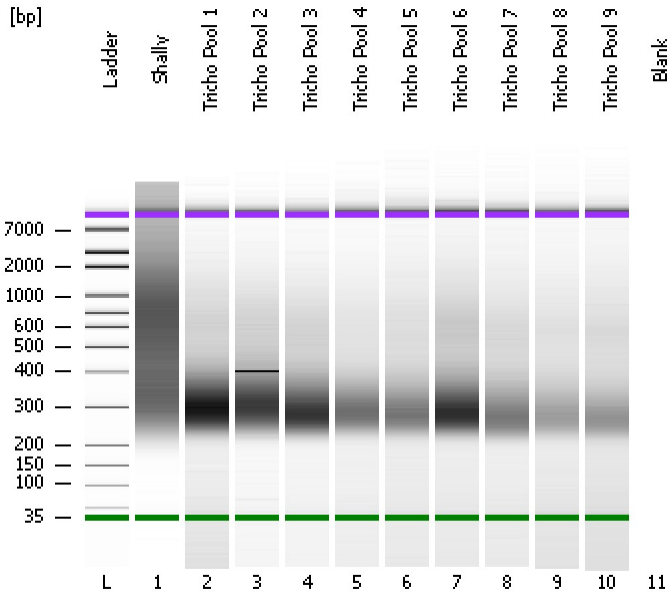


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
Modified: 1/6/2015 3:38:35 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

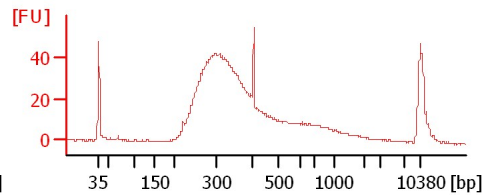
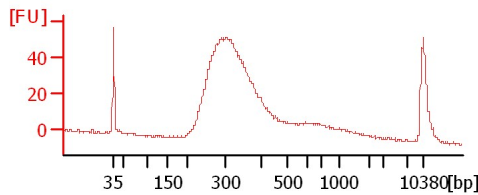
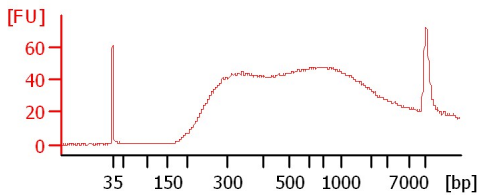
Chip Information:

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

**Shally**

**Tricho Pool 1**

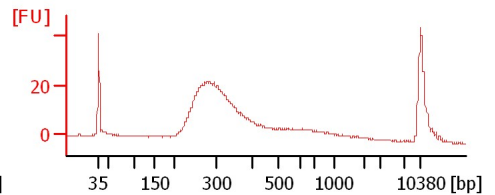
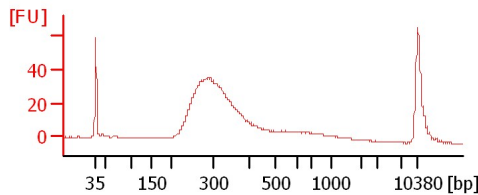
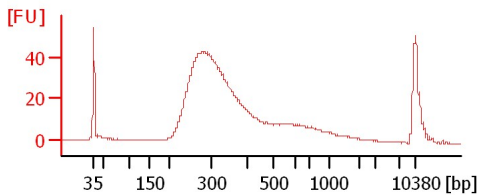
**Tricho Pool 2**



**Tricho Pool 3**

**Tricho Pool 4**

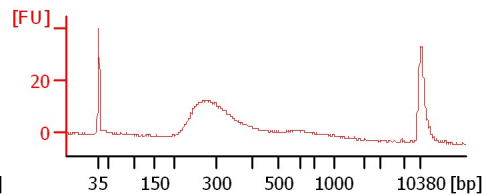
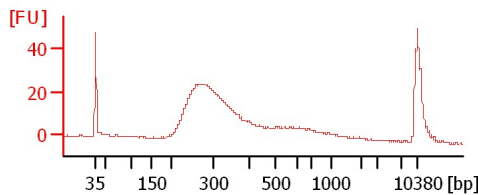
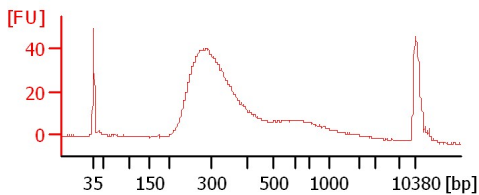
**Tricho Pool 5**



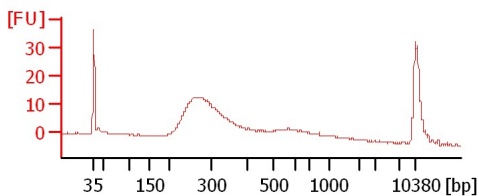
**Tricho Pool 6**

**Tricho Pool 7**

**Tricho Pool 8**



**Tricho Pool 9**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
Modified: 1/6/2015 3:38:35 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Shally		<input type="checkbox"/>	✓			
Tricho Pool 1		<input type="checkbox"/>	✓			
Tricho Pool 2		<input type="checkbox"/>	✓			
Tricho Pool 3		<input type="checkbox"/>	✓			
Tricho Pool 4		<input type="checkbox"/>	✓			
Tricho Pool 5		<input type="checkbox"/>	✓			
Tricho Pool 6		<input type="checkbox"/>	✓			
Tricho Pool 7		<input type="checkbox"/>	✓			
Tricho Pool 8		<input type="checkbox"/>	✓			
Tricho Pool 9		<input type="checkbox"/>	✓			
Blank		<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\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 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

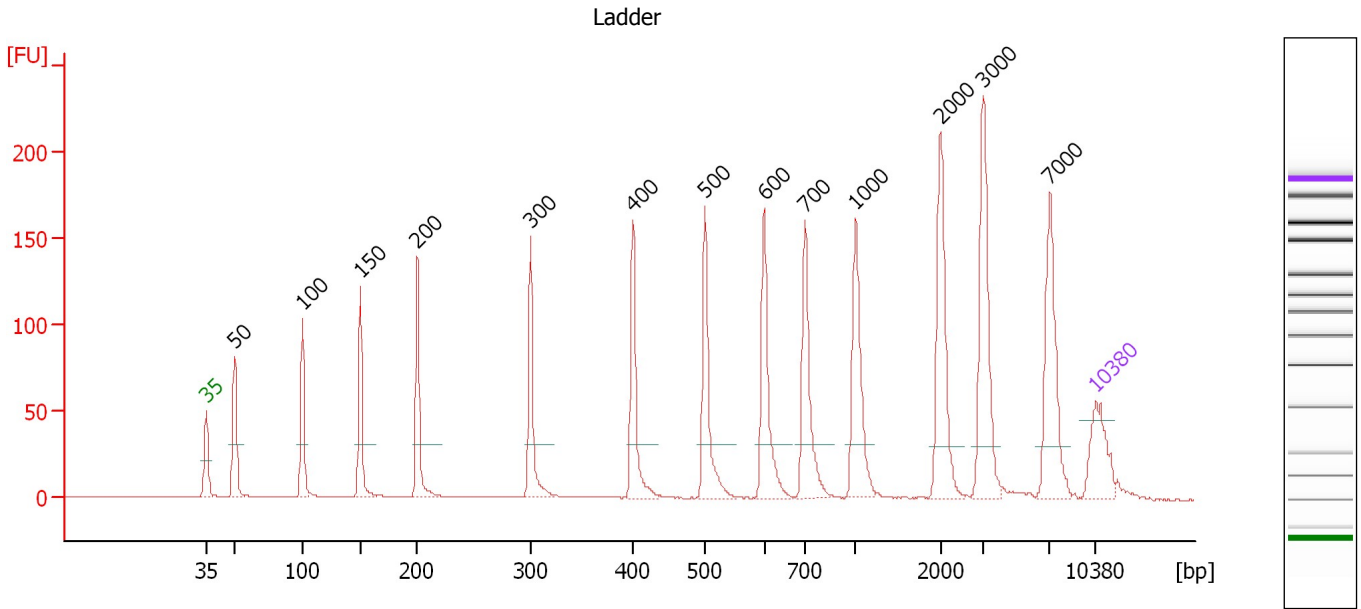
**Ladder**

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\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

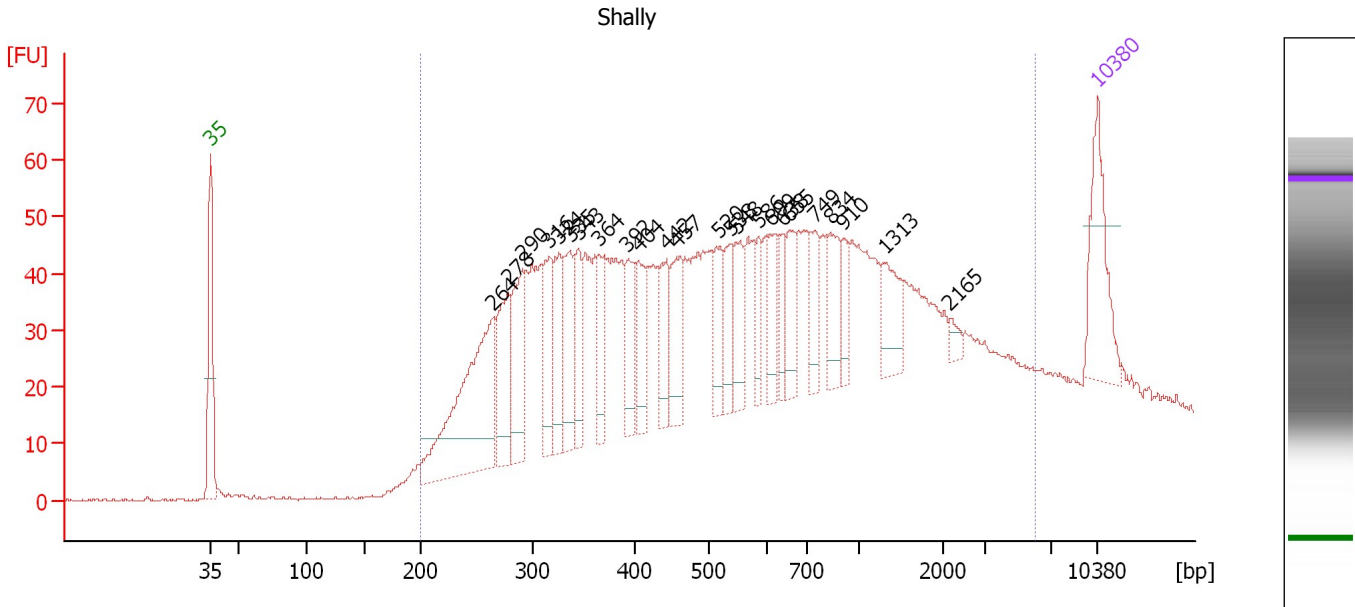
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.22
3	100	150.00	2,272.7	Ladder Peak	50.59
4	150	150.00	1,515.2	Ladder Peak	55.12
5	200	150.00	1,136.4	Ladder Peak	59.61
6	300	150.00	757.6	Ladder Peak	68.50
7	400	150.00	568.2	Ladder Peak	76.55
8	500	150.00	454.5	Ladder Peak	82.26
9	600	150.00	378.8	Ladder Peak	86.87
10	700	150.00	324.7	Ladder Peak	90.10
11	1,000	150.00	227.3	Ladder Peak	94.08
12	2,000	150.00	113.6	Ladder Peak	100.75
13	3,000	150.00	75.8	Ladder Peak	104.11
14	7,000	150.00	32.5	Ladder Peak	109.35
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Shally**

Number of peaks found: 24                      Corr. Area 1: 1,758.7  
 Noise: 0.2

**Peak table for sample 1 : Shally**

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	264	277.82	1,591.8		65.34
3	278	105.71	576.8		66.52
4	290	98.15	512.8		67.61
5	316	78.80	378.3		69.75
6	324	69.18	323.1		70.47
7	335	87.20	393.9		71.35
8	343	61.77	272.7		71.98
9	364	45.93	191.4		73.63
10	392	61.81	239.0		75.90
11	404	55.81	209.3		76.78
12	442	52.15	178.6		78.97
13	457	68.40	226.7		79.81
14	520	46.60	135.8		83.17
15	538	45.44	127.9		84.02
16	548	49.80	137.7		84.48
17	586	30.51	78.9		86.20
18	609	39.48	98.2		87.17
19	638	29.87	70.9		88.10
20	655	43.83	101.4		88.64
21	749	45.33	91.7		90.75
22	834	50.74	92.2		91.88
23	910	24.99	41.6		92.89
24	1,313	44.62	51.5		96.17
25	2,165	8.69	6.1		101.31

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad


Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : Shally

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

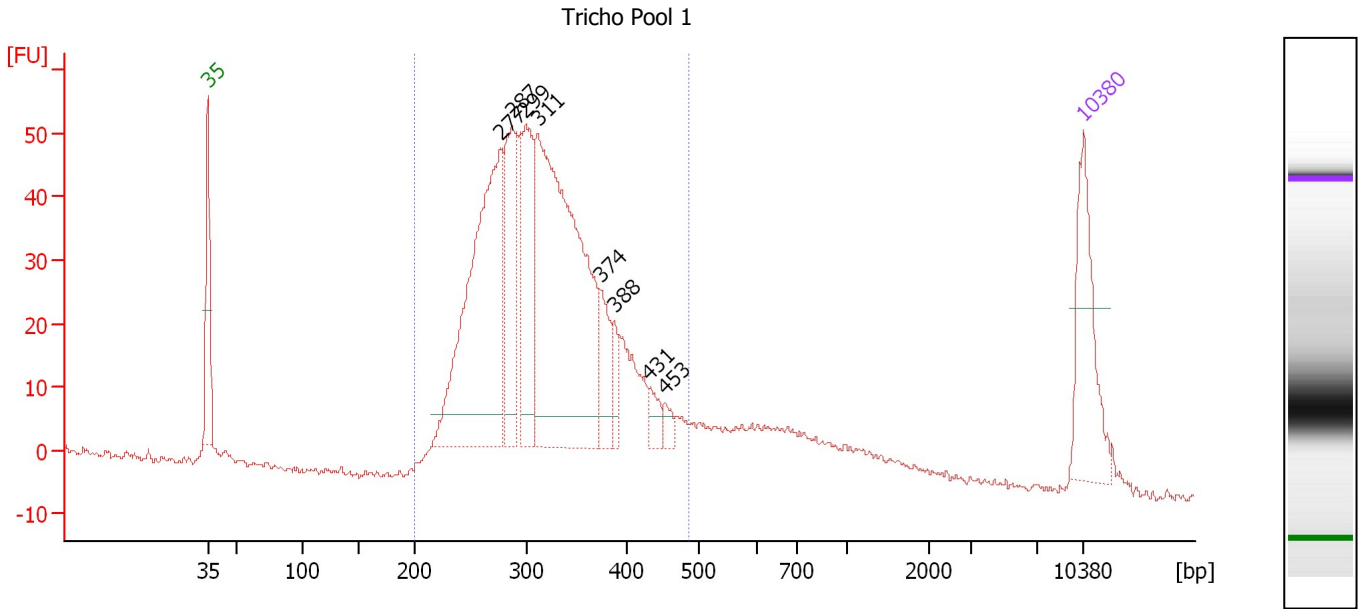
#### Region table for sample 1 : Shally

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	824	5,970	1,758.7	98	100.0	2,915.18	10,058.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Tricho Pool 1**

Number of peaks found: 8                      Corr. Area 1: 961.5  
 Noise: 0.6

**Peak table for sample 2 : Tricho Pool 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	277	358.30	1,962.8		66.42
3	287	130.03	687.3		67.31
4	299	137.69	697.4		68.42
5	311	451.28	2,197.0		69.40
6	374	43.94	177.9		74.48
7	388	20.42	79.9		75.55
8	431	16.13	56.7		78.32
9	453	10.43	34.9		79.56
10	10,380	75.00	10.9	Upper Marker	113.00

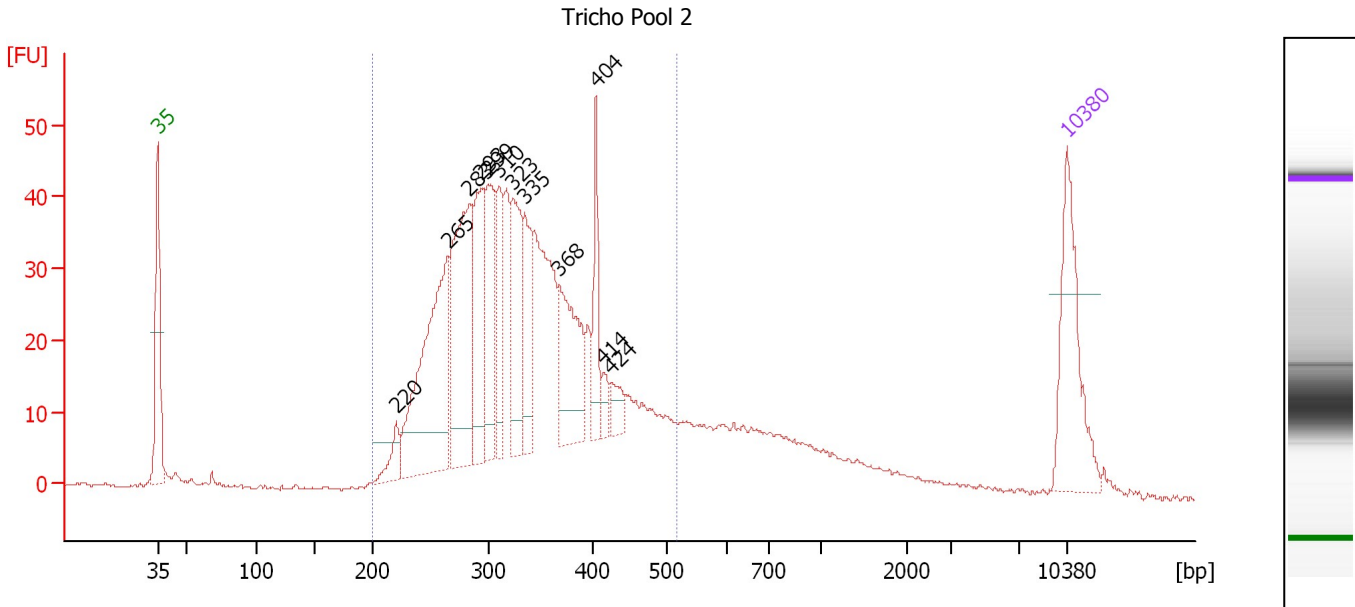
**Region table for sample 2 : Tricho Pool 1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	321	487	961.5	85	17.9	1,454.88	7,151.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Tricho Pool 2**

Number of peaks found: 12                      Corr. Area 1: 845.2  
 Noise: 0.2

**Peak table for sample 3 : Tricho Pool 2**

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	220	22.11	152.3		61.38
3	265	204.97	1,172.4		65.38
4	283	174.80	936.0		66.99
5	293	87.25	450.9		67.90
6	299	87.51	443.3		68.42
7	310	57.13	278.9		69.33
8	323	83.26	390.9		70.33
9	335	56.66	256.6		71.29
10	368	92.32	380.6		73.94
11	404	40.03	150.3		76.76
12	414	11.10	40.7		77.33
13	424	16.59	59.3		77.93
14	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : Tricho Pool 2**

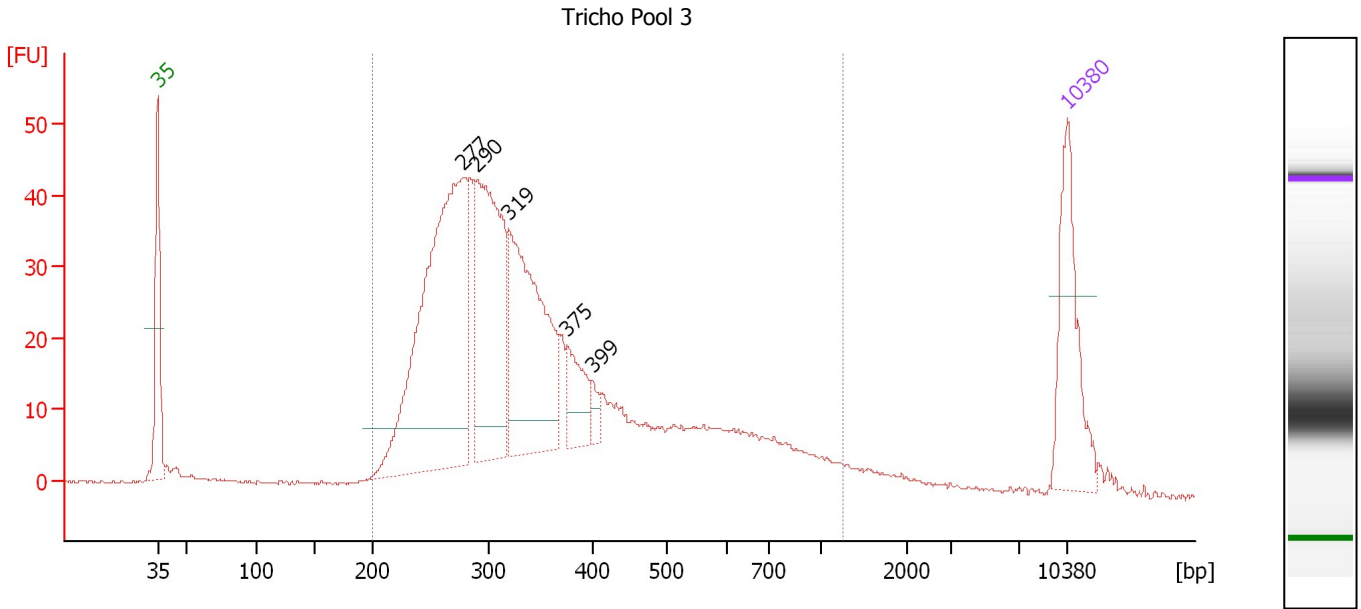
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	334	515	845.2	82	20.0	1,474.38	7,060.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Tricho Pool 3**

Number of peaks found: 5                      Corr. Area 1: 907.6  
 Noise: 0.2

**Peak table for sample 4 : Tricho Pool 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	277	413.25	2,258.1		66.48
3	290	228.54	1,195.3		67.58
4	319	220.90	1,050.0		70.01
5	375	42.81	173.1		74.51
6	399	11.41	43.3		76.46
7	10,380	75.00	10.9	Upper Marker	113.00

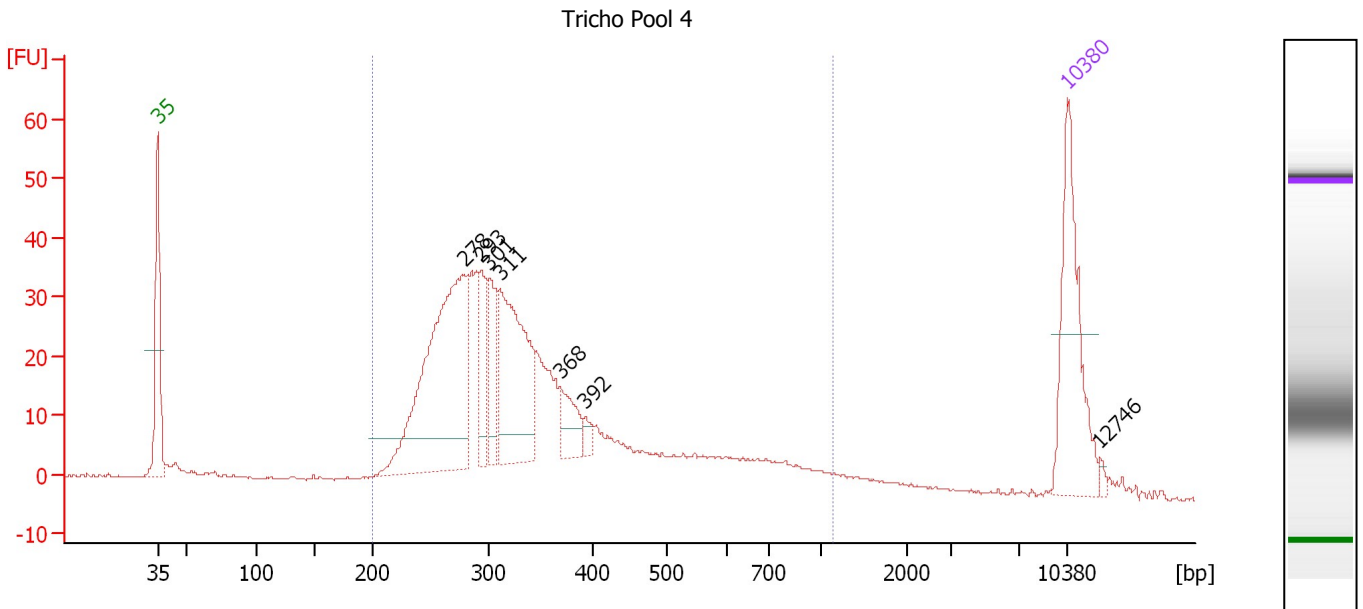
**Region table for sample 4 : Tricho Pool 3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	377	1,258	907.6	94	43.5	1,403.95	6,623.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Tricho Pool 4**

Number of peaks found: 7                      Corr. Area 1: 676.2  
 Noise: 0.2

**Peak table for sample 5 : Tricho Pool 4**

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	278	248.59	1,353.3		66.57
3	293	37.86	195.8		67.87
4	301	40.40	203.7		68.54
5	311	127.82	623.6		69.35
6	368	27.52	113.2		74.01
7	392	7.41	28.7		75.89
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,746	0.00	0.0		115.55

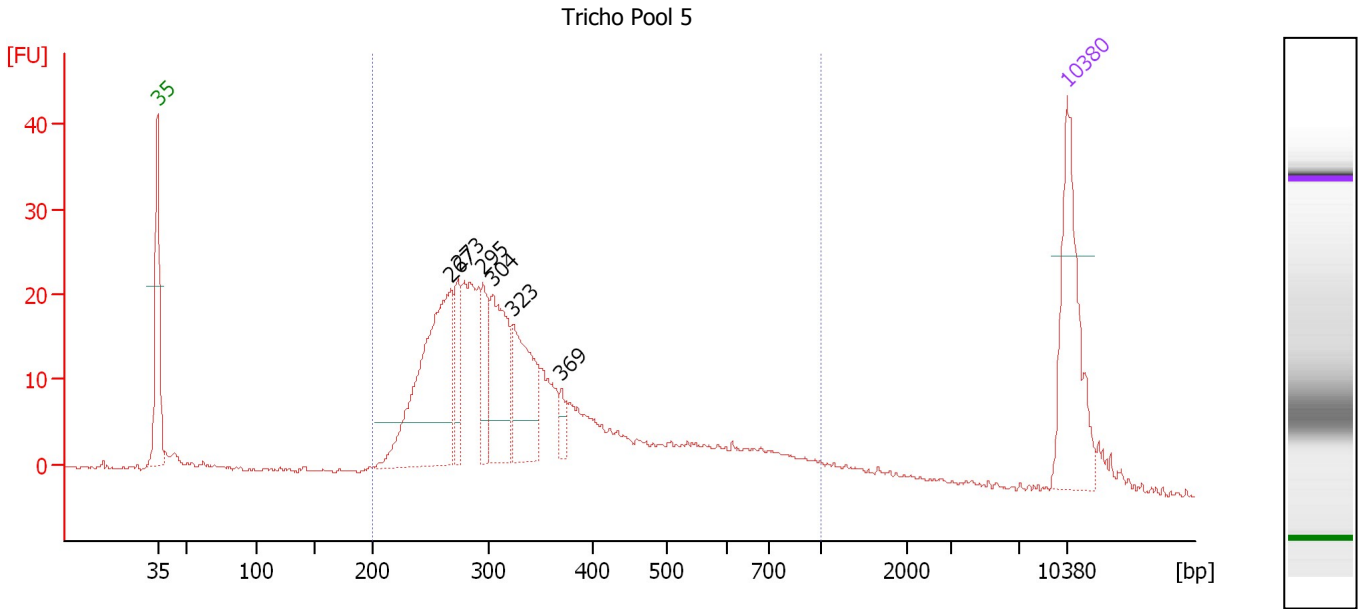
**Region table for sample 5 : Tricho Pool 4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	363	1,142	676.2	94	39.9	844.69	4,030.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Tricho Pool 5**

Number of peaks found: 6                      Corr. Area 1: 462.8  
 Noise: 0.2

**Peak table for sample 6 : Tricho Pool 5**

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	267	187.88	1,067.6		65.53
3	273	38.14	211.5		66.12
4	295	42.45	218.3		68.02
5	304	83.82	418.3		68.79
6	323	77.71	364.8		70.33
7	369	10.81	44.4		74.04
8	10,380	75.00	10.9	Upper Marker	113.00

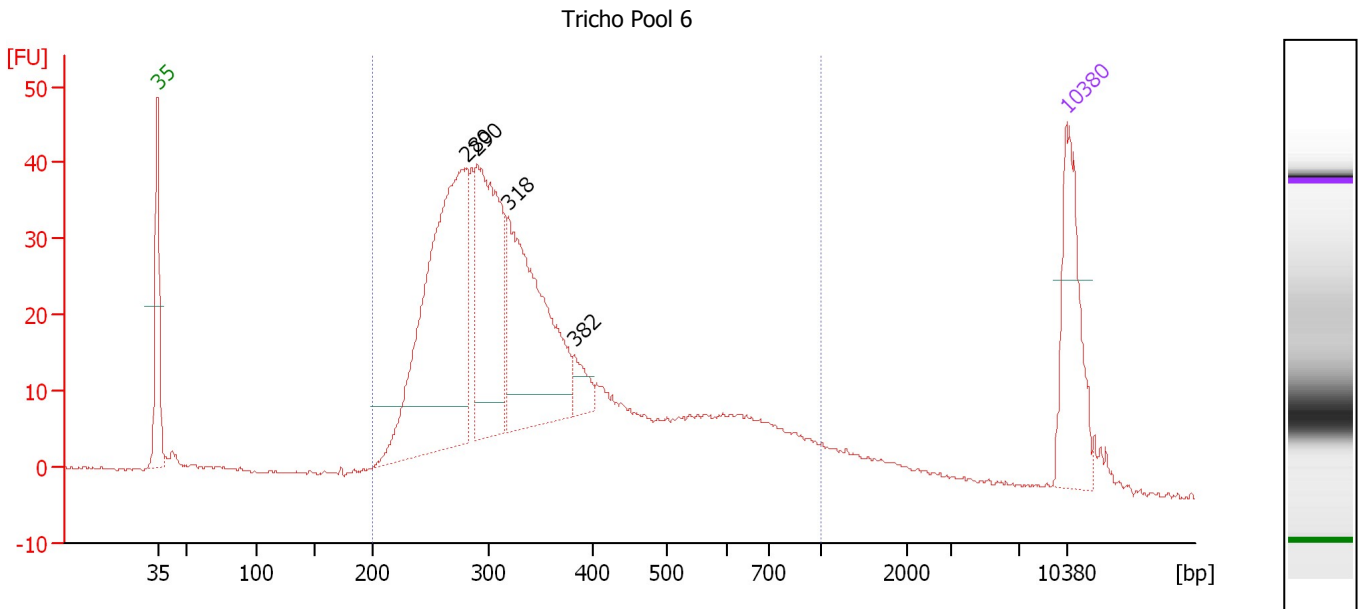
**Region table for sample 6 : Tricho Pool 5**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	370	1,000	462.8	88	39.9	842.36	3,998.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Tricho Pool 6**

Number of peaks found: 4                      Corr. Area 1: 842.4  
 Noise: 0.2

**Peak table for sample 7 : Tricho Pool 6**

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	280	384.18	2,075.7		66.76
3	290	206.03	1,075.6		67.63
4	318	224.47	1,068.9		69.97
5	382	21.25	84.3		75.09
6	10,380	75.00	10.9	Upper Marker	113.00

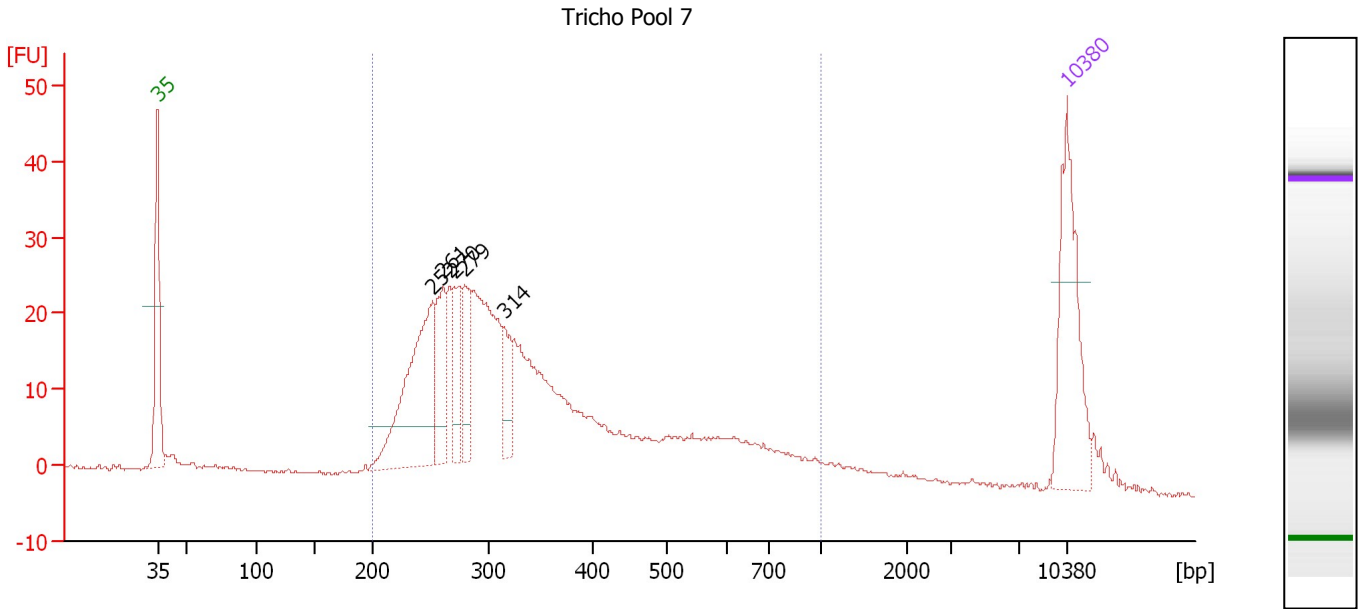
**Region table for sample 7 : Tricho Pool 6**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	378	1,000	842.4	90	40.1	1,399.92	6,544.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Tricho Pool 7**

Number of peaks found: 5                      Corr. Area 1: 536.6  
 Noise: 0.2

**Peak table for sample 8 : Tricho Pool 7**

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	252	149.53	899.6		64.22
3	261	51.72	300.7		64.99
4	270	40.61	227.6		65.86
5	279	42.13	228.8		66.64
6	314	29.59	142.7		69.65
7	10,380	75.00	10.9	Upper Marker	113.00

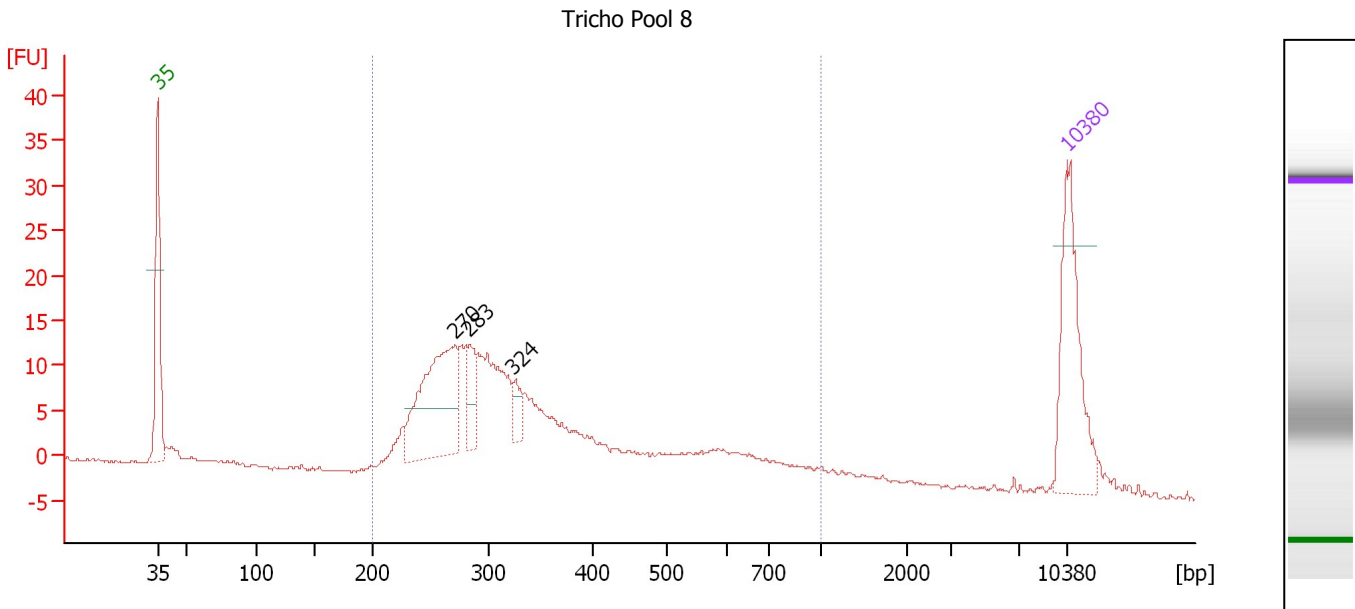
**Region table for sample 8 : Tricho Pool 7**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	371	1,000	536.6	90	40.7	878.64	4,214.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Tricho Pool 8**

Number of peaks found: 3                      Corr. Area 1: 274.3  
 Noise: 0.2

**Peak table for sample 9 : Tricho Pool 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	270	140.66	789.4		65.83
3	283	33.03	176.6		67.02
4	324	16.01	74.9		70.41
5	10,380	75.00	10.9	Upper Marker	113.00

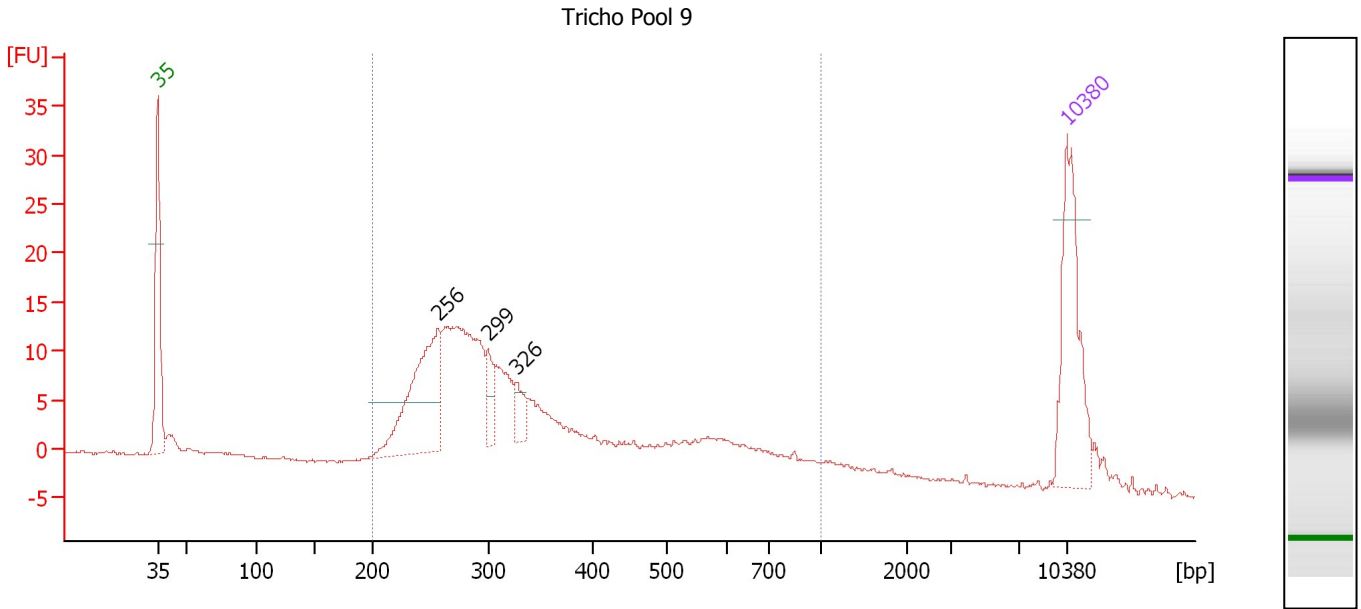
**Region table for sample 9 : Tricho Pool 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	371	1,000	274.3	92	40.4	605.83	2,887.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
 Modified: 1/6/2015 3:38:35 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Tricho Pool 9**

Number of peaks found: 3                      Corr. Area 1: 278.1  
 Noise: 0.1

**Peak table for sample 10 : Tricho Pool 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	256	129.56	766.7		64.59
3	299	20.06	101.5		68.44
4	326	16.81	78.1		70.60
5	10,380	75.00	10.9	Upper Marker	113.00

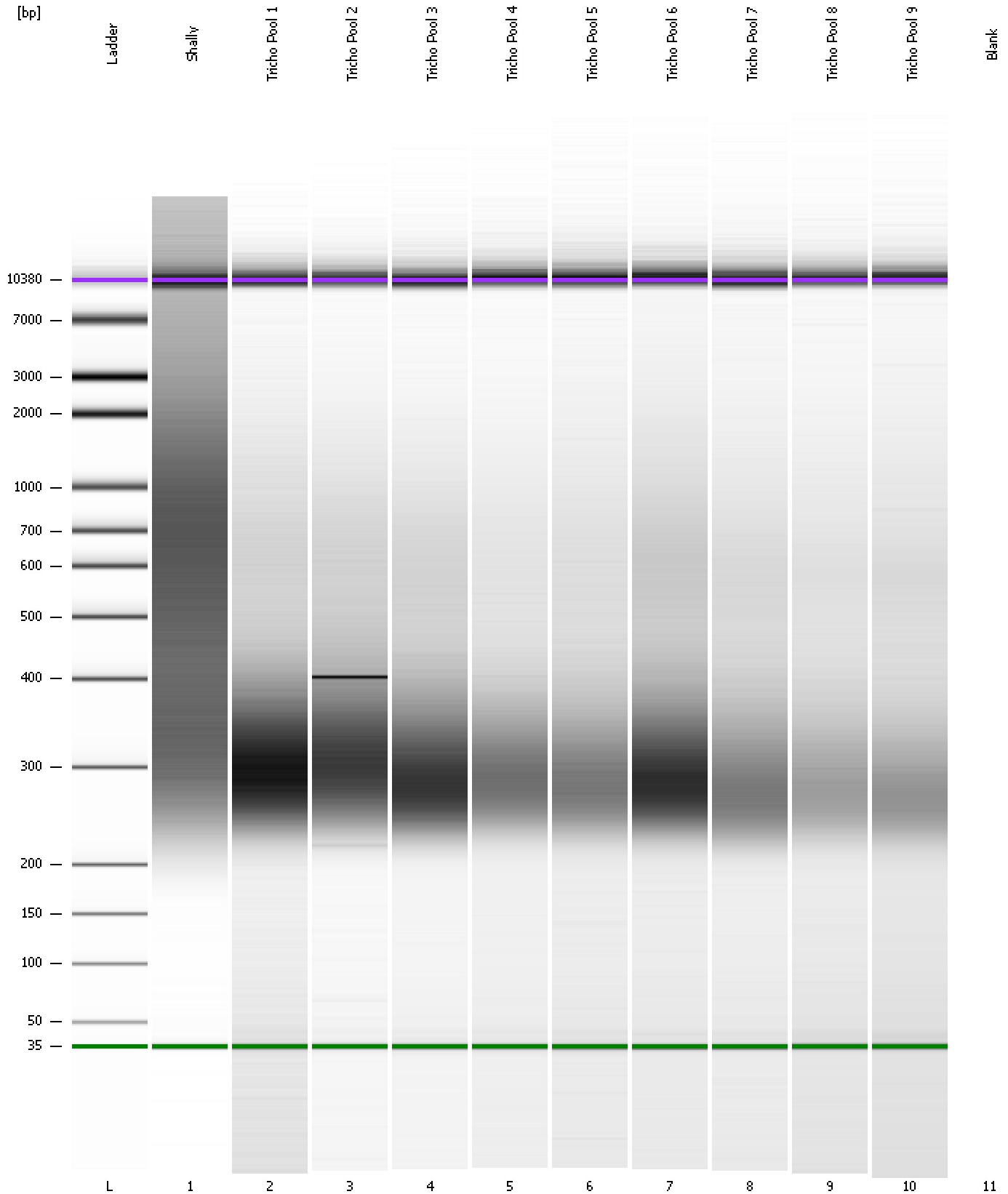
**Region table for sample 10 : Tricho Pool 9**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	372	1,000	278.1	88	41.8	669.28	3,227.7	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
Modified: 1/6/2015 3:38:35 PM

**Gel Image**





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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad

Created: 1/6/2015 3:00:04 PM  
Modified: 1/6/2015 3:38:35 PM

**Invalid Samples**

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay Created: 1/6/2015 3:00:04 PM  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06\_005.xad Modified: 1/6/2015 3:38:35 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		1/6/2015 3:38:31 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-06\2015-01-06_005.xad)		Instrument	Run		1/6/2015 3:00:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/6/2015 3:00:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/6/2015 3:00:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/6/2015 3:00:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/6/2015 3:00:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/6/2015 3:00:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/6/2015 3:00:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1