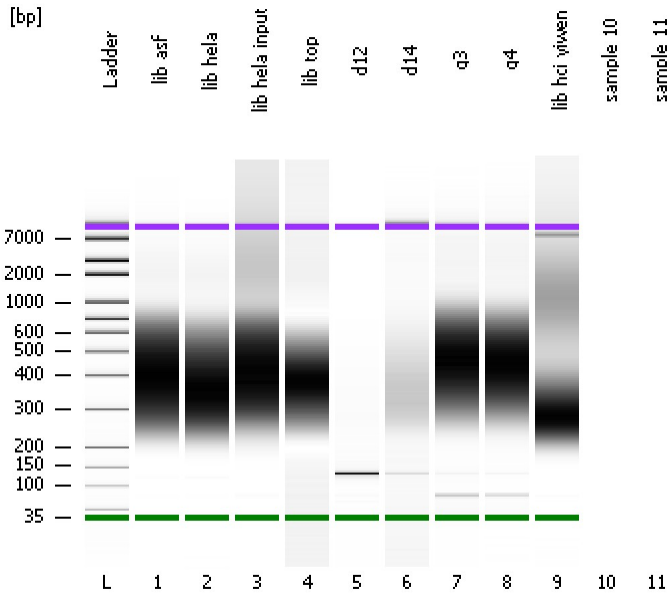


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
Modified: 2/18/2014 3:58:17 PM

Electrophoresis File Run Summary



Instrument Information:

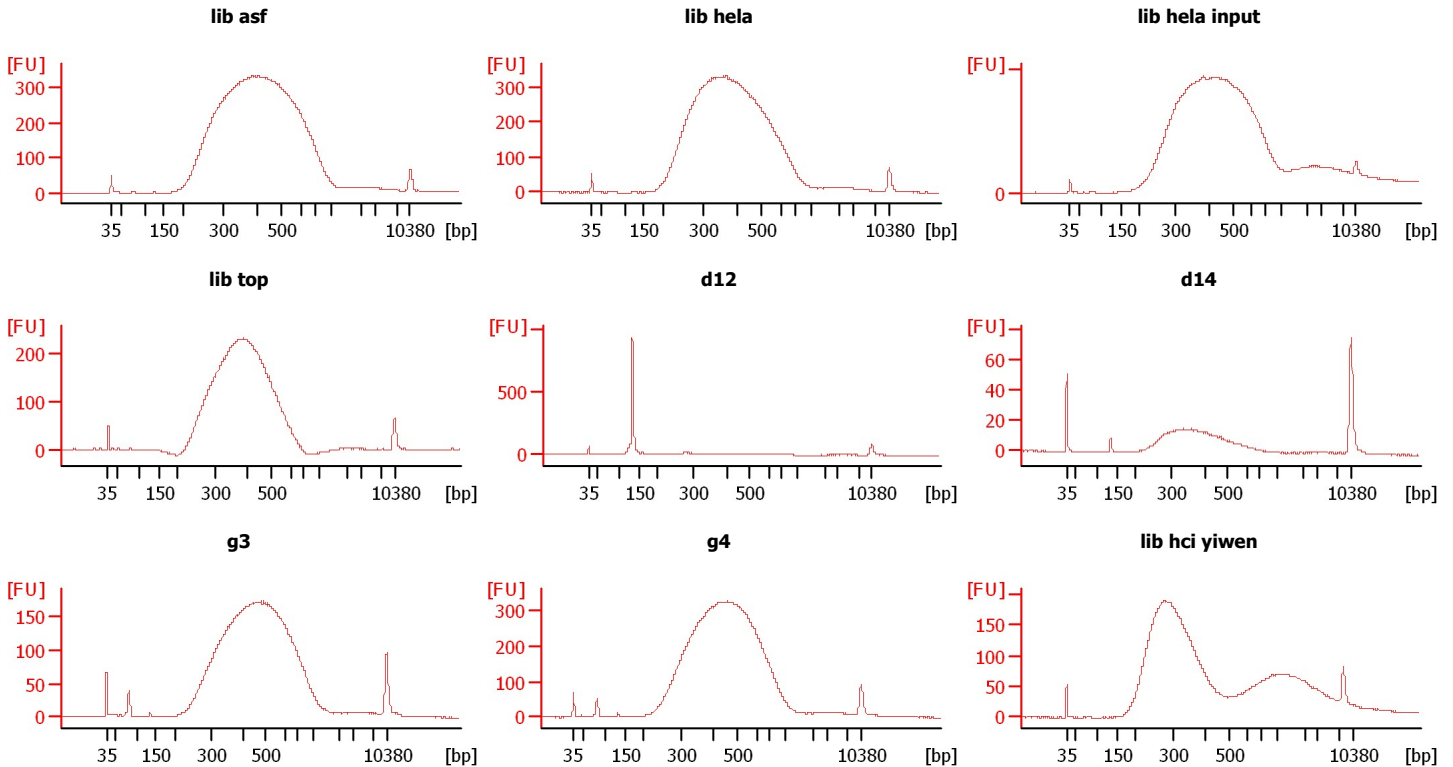
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
 Modified: 2/18/2014 3:58:17 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lib asf		<input type="checkbox"/>	✓			
lib hela		<input type="checkbox"/>	✓			
lib hela input		<input type="checkbox"/>	✓			
lib top		<input type="checkbox"/>	✓			
d12		<input type="checkbox"/>	✓			
d14		<input type="checkbox"/>	✓			
g3		<input type="checkbox"/>	✓			
g4		<input type="checkbox"/>	✓			
lib hci yiwen		<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\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
 Modified: 2/18/2014 3:58:17 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

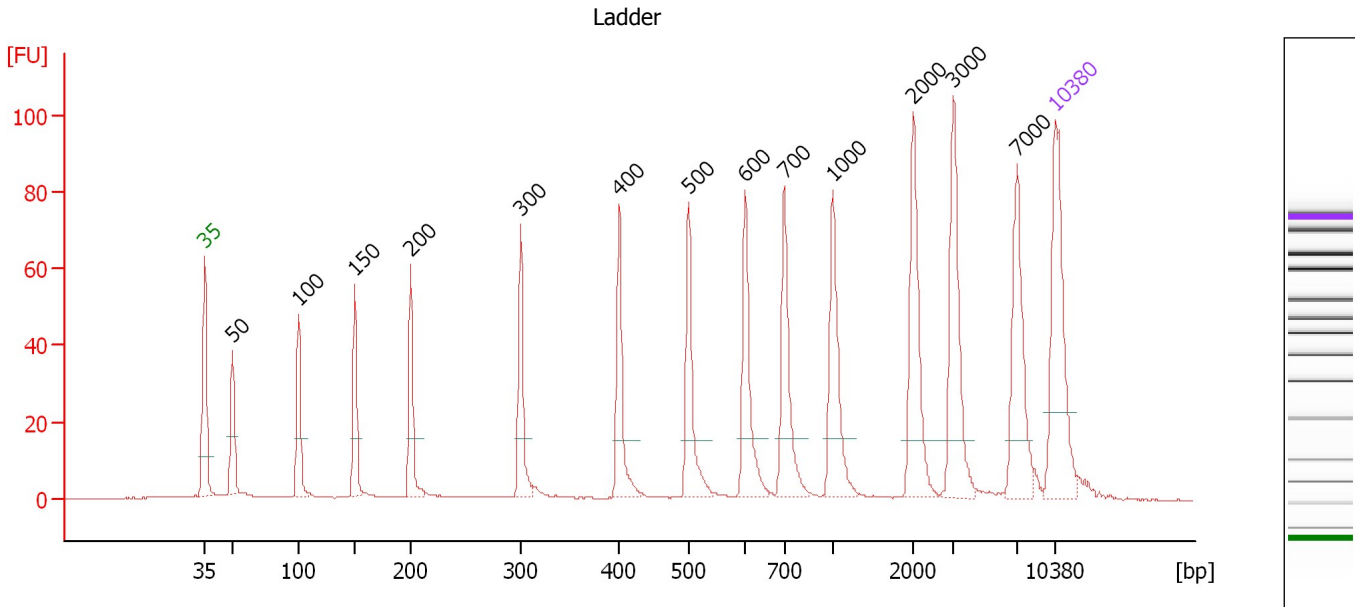
Ladder

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\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
 Modified: 2/18/2014 3:58:17 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

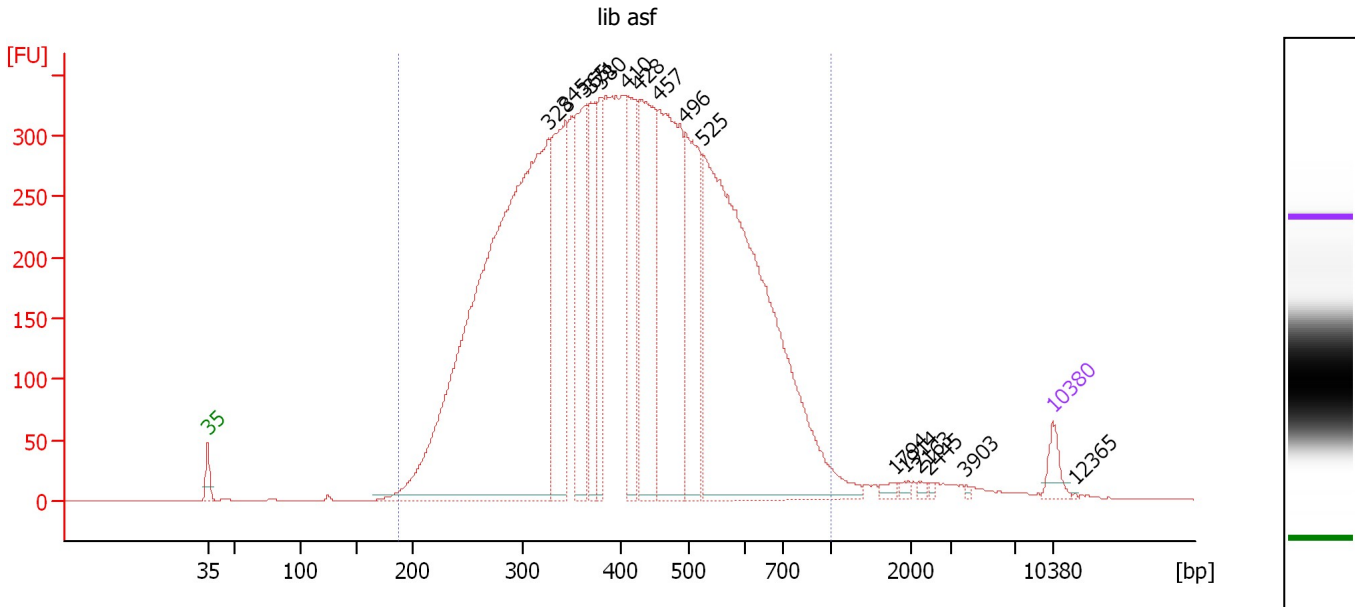
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.28	50	150.00	4,545.5	Ladder Peak
3	50.72	100	150.00	2,272.7	Ladder Peak
4	55.38	150	150.00	1,515.2	Ladder Peak
5	59.98	200	150.00	1,136.4	Ladder Peak
6	69.03	300	150.00	757.6	Ladder Peak
7	77.14	400	150.00	568.2	Ladder Peak
8	82.85	500	150.00	454.5	Ladder Peak
9	87.50	600	150.00	378.8	Ladder Peak
10	90.71	700	150.00	324.7	Ladder Peak
11	94.70	1,000	150.00	227.3	Ladder Peak
12	101.33	2,000	150.00	113.6	Ladder Peak
13	104.62	3,000	150.00	75.8	Ladder Peak
14	109.84	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : lib asf

Number of peaks found: 16 Corr. Area 1: 10,470.7
 Noise: 0.2

Peak table for sample 1 : lib asf

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	71.28	328	5,467.42	25,270.8	
3	72.65	345	1,132.67	4,979.0	
4	74.29	365	889.25	3,693.2	
5	74.77	371	571.23	2,334.1	
6	75.53	380	458.84	1,829.2	
7	77.69	410	705.15	2,608.5	
8	78.75	428	1,140.61	4,036.2	
9	80.39	457	1,561.00	5,177.3	
10	82.60	496	919.16	2,810.3	
11	84.01	525	3,668.03	10,587.0	
12	99.96	1,794	27.68	23.4	
13	100.76	1,914	19.73	15.6	
14	101.86	2,163	14.53	10.2	
15	102.79	2,445	10.04	6.2	
16	105.80	3,903	7.68	3.0	
17	113.00	10,380	75.00	10.9	Upper Marker
18	114.86	12,365	0.00	0.0	

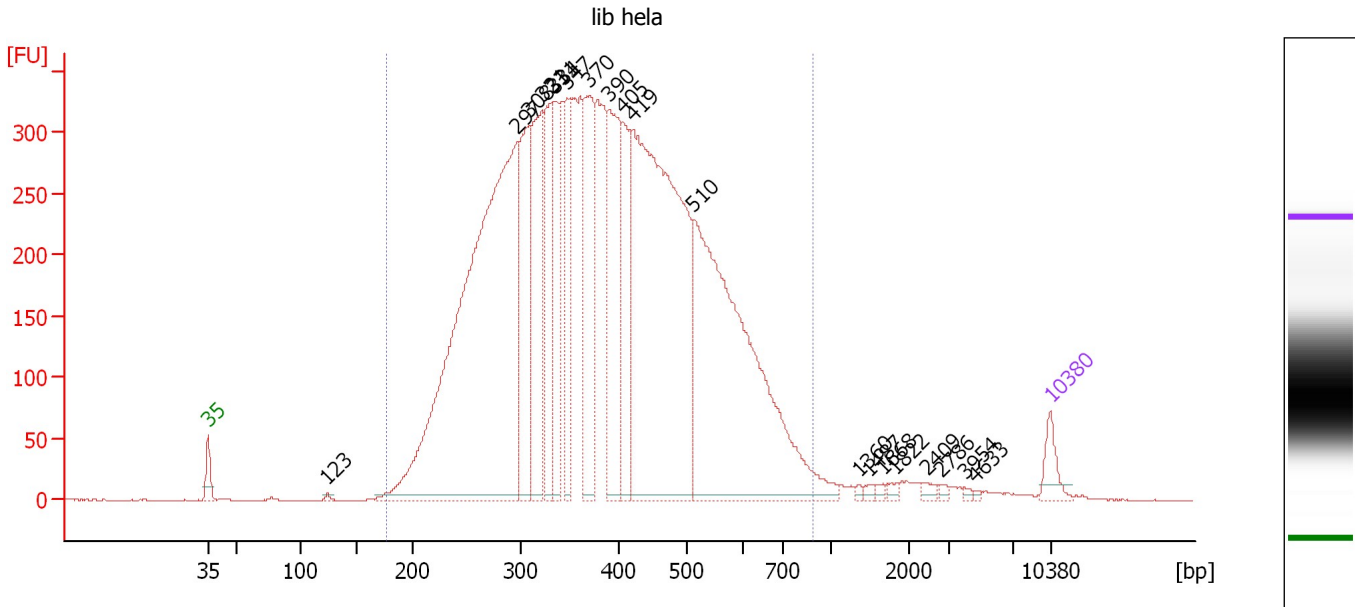
Region table for sample 1 : lib asf

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
188	1,000	429	76,007.9	18,751.87	10,470.7	98	31.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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 Modified: 2/18/2014 3:58:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : lib hela

Number of peaks found: 20 Corr. Area 1: 9,878.3
 Noise: 0.4

Peak table for sample 2 : lib hela


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	52.89	123	8.98	110.5	
3	68.71	297	3,909.47	19,975.0	
4	69.69	308	695.86	3,421.4	
5	70.75	321	801.54	3,780.2	
6	71.55	331	537.76	2,460.9	
7	71.82	334	471.86	2,138.2	
8	72.84	347	428.11	1,869.7	
9	74.70	370	657.62	2,694.0	
10	76.34	390	715.74	2,780.2	
11	77.40	405	433.82	1,624.9	
12	78.24	419	2,738.67	9,896.9	
13	83.30	510	2,319.14	6,894.9	
14	97.08	1,360	9.20	10.2	
15	97.93	1,487	16.57	16.9	
16	99.12	1,668	12.26	11.1	
17	100.14	1,822	16.32	13.6	
18	102.67	2,409	21.20	13.3	
19	103.91	2,786	11.70	6.4	
20	105.86	3,954	9.34	3.6	
21	106.75	4,633	5.45	1.8	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
Modified: 2/18/2014 3:58:17 PM

Electropherogram Summary Continued ...

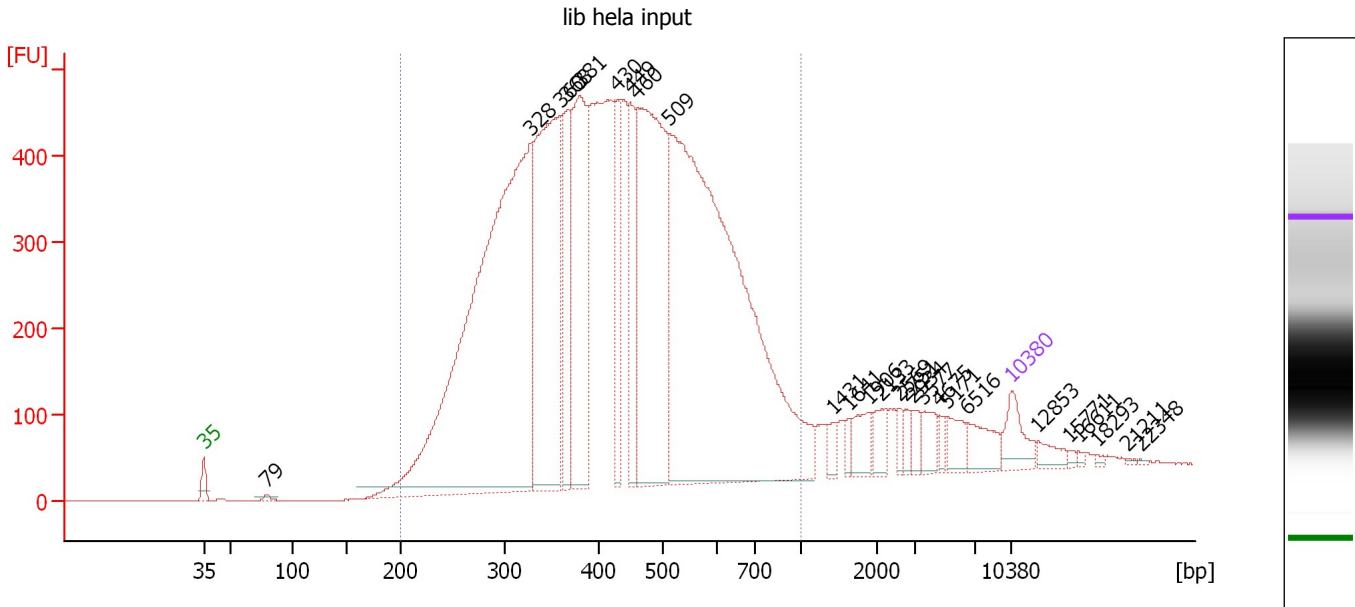
... Region table for sample 2 : lib_hela

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
176	897	397	67,535.4	15,647.85	 9,878.3	98	29.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : lib hela input

Number of peaks found: 26 Corr. Area 1: 13,363.4
 Noise: 0.4

Peak table for sample 3 : lib hela input

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.46	79	10.74	205.6	
3	71.30	328	2,561.83	11,835.1	
4	73.89	360	1,055.83	4,445.5	
5	74.53	368	319.54	1,316.2	
6	75.60	381	654.38	2,602.8	
7	78.83	430	260.16	917.6	
8	79.94	449	270.09	911.4	
9	80.59	460	1,036.87	3,412.4	
10	83.27	509	2,487.62	7,404.1	
11	97.56	1,431	28.68	30.4	
12	98.94	1,641	22.37	20.7	
13	100.70	1,906	60.87	48.4	
14	101.76	2,133	47.00	33.4	
15	103.20	2,569	23.27	13.7	
16	103.80	2,751	22.83	12.6	
17	104.40	2,934	30.68	15.8	
18	105.37	3,577	50.49	21.4	
19	106.80	4,675	21.35	6.9	
20	107.45	5,171	53.24	15.6	
21	109.21	6,516	71.94	16.7	
22	113.00	10,380	75.00	10.9	Upper Marker
23	115.31	12,853	0.00	0.0	
24	118.04	15,771	0.00	0.0	
25	118.83	16,611	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
 Modified: 2/18/2014 3:58:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : lib hela input

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	120.40	18,293	0.00	0.0	
27	123.13	21,211	0.00	0.0	
28	124.19	22,348	0.00	0.0	

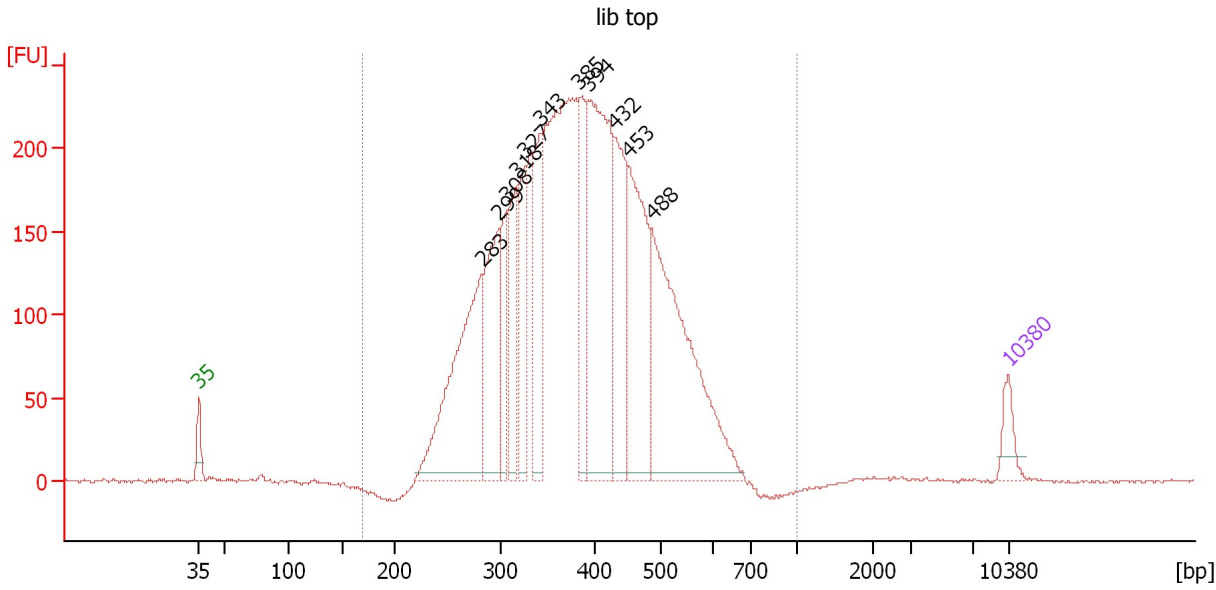
Region table for sample 3 : lib hela input

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,008	443	37,405.0	9,582.89	 13,363.4	91	31.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : lib top

Number of peaks found: 11 Corr. Area 1: 5,119.6
 Noise: 0.9

Peak table for sample 4 : lib top

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	67.47	283	1,103.25	5,910.9	
3	68.90	299	581.32	2,949.7	
4	69.64	308	270.46	1,332.5	
5	70.47	318	393.74	1,877.5	
6	71.20	327	370.02	1,715.4	
7	72.49	343	469.83	2,077.1	
8	75.90	385	403.17	1,587.8	
9	76.64	394	1,188.61	4,573.2	
10	78.99	432	536.36	1,879.6	
11	80.19	453	733.14	2,450.1	
12	82.17	488	1,259.06	3,908.4	
13	113.00	10,380	75.00	10.9	Upper Marker

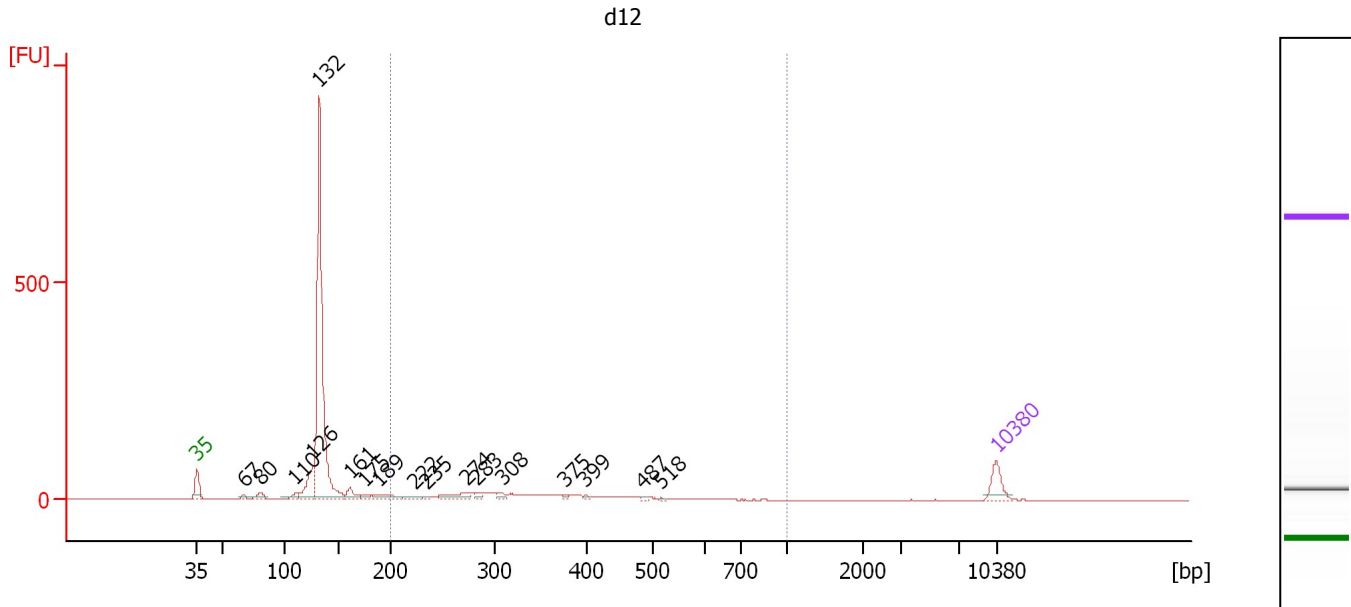
Region table for sample 4 : lib top

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
170	1,000	392	38,593.6	9,312.27	5,119.6	99	22.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : d12

Number of peaks found: 17 Corr. Area 1: 361.3
 Noise: 0.3

Peak table for sample 5 : d12

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.09	67	19.45	442.6	
3	48.53	80	40.14	762.0	
4	51.64	110	29.09	401.3	
5	53.17	126	187.37	2,247.5	
6	53.73	132	1,696.38	19,426.7	
7	56.42	161	62.83	590.0	
8	57.68	175	24.48	212.0	
9	58.93	189	65.57	526.8	
10	62.00	222	30.08	205.1	
11	63.11	235	10.19	65.8	
12	66.69	274	75.43	416.9	
13	67.53	283	24.26	129.7	
14	69.71	308	25.38	124.7	
15	75.14	375	11.50	46.4	
16	77.05	399	10.02	38.1	
17	82.11	487	5.44	16.9	
18	83.69	518	4.88	14.3	
19	113.00	10,380	75.00	10.9	Upper Marker

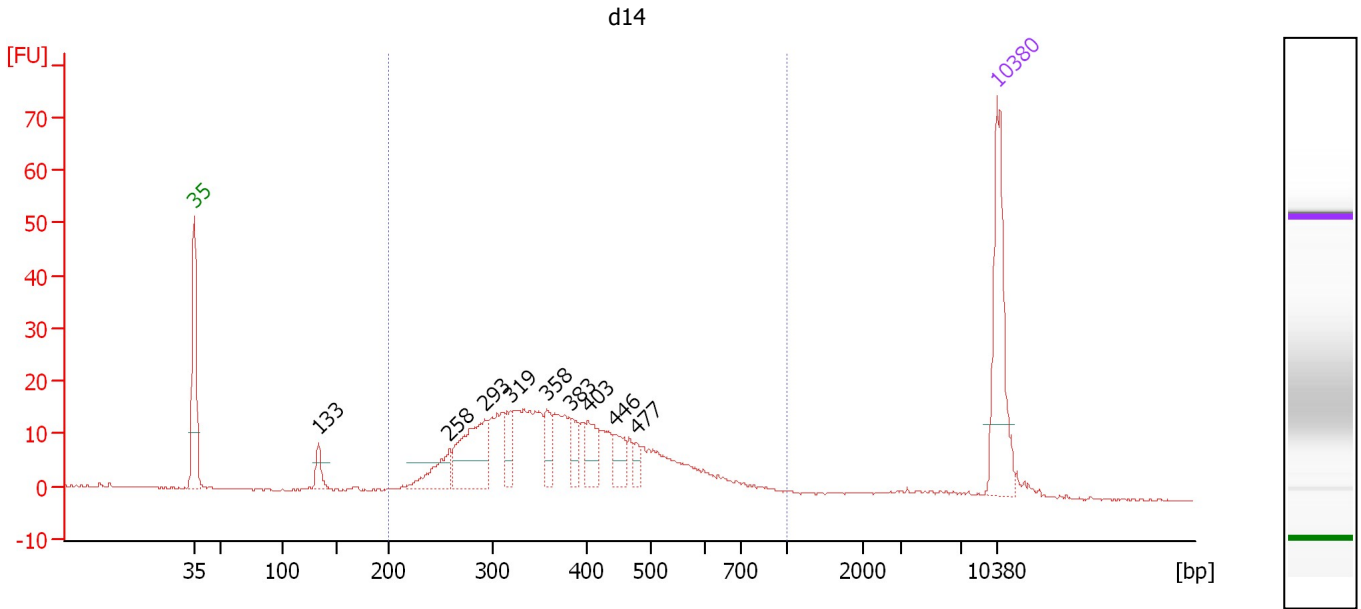
Region table for sample 5 : d12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	351	2,379.7	496.62	361.3	23	30.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : d14

Number of peaks found: 9 Corr. Area 1: 389.2
 Noise: 0.2

Peak table for sample 6 : d14

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.79	133	18.57	211.7	
3	65.23	258	35.96	211.1	
4	68.35	293	83.08	430.3	
5	70.58	319	25.28	120.0	
6	73.74	358	21.37	90.4	
7	75.79	383	21.61	85.4	
8	77.33	403	28.61	107.5	
9	79.74	446	21.59	73.4	
10	81.51	477	10.35	32.9	
11	113.00	10,380	75.00	10.9	Upper Marker

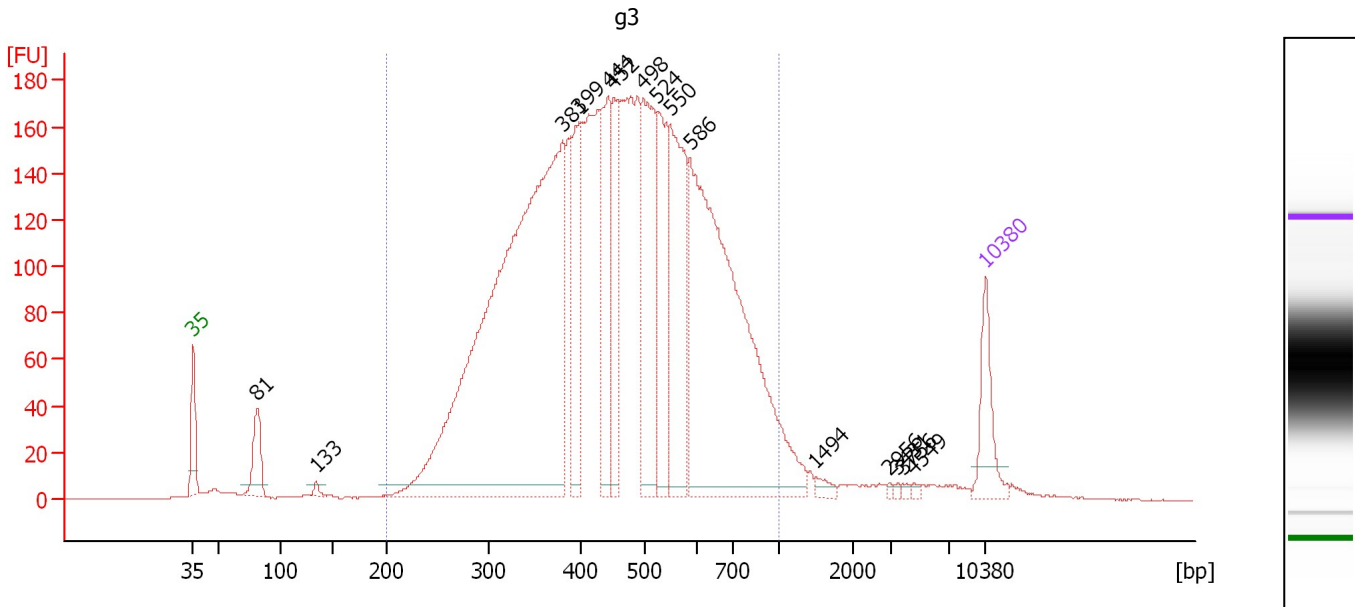
Region table for sample 6 : d14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	394	2,584.6	605.86	389.2	91	29.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : g3

Number of peaks found: 15 Corr. Area 1: 4,685.3
 Noise: 0.1

Peak table for sample 7 : g3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.65	81	106.16	1,986.5	
3	53.83	133	10.98	124.7	
4	75.60	381	1,712.66	6,811.7	
5	77.06	399	200.48	761.4	
6	79.65	444	240.10	819.5	
7	80.12	452	172.19	577.0	
8	82.76	498	317.16	964.2	
9	83.98	524	233.94	676.0	
10	85.16	550	321.08	885.1	
11	86.86	586	952.98	2,463.5	
12	97.97	1,494	12.89	13.1	
13	104.47	2,956	2.93	1.5	
14	105.18	3,431	2.93	1.3	
15	105.60	3,756	3.81	1.5	
16	106.64	4,549	4.21	1.4	
17	113.00	10,380	75.00	10.9	Upper Marker

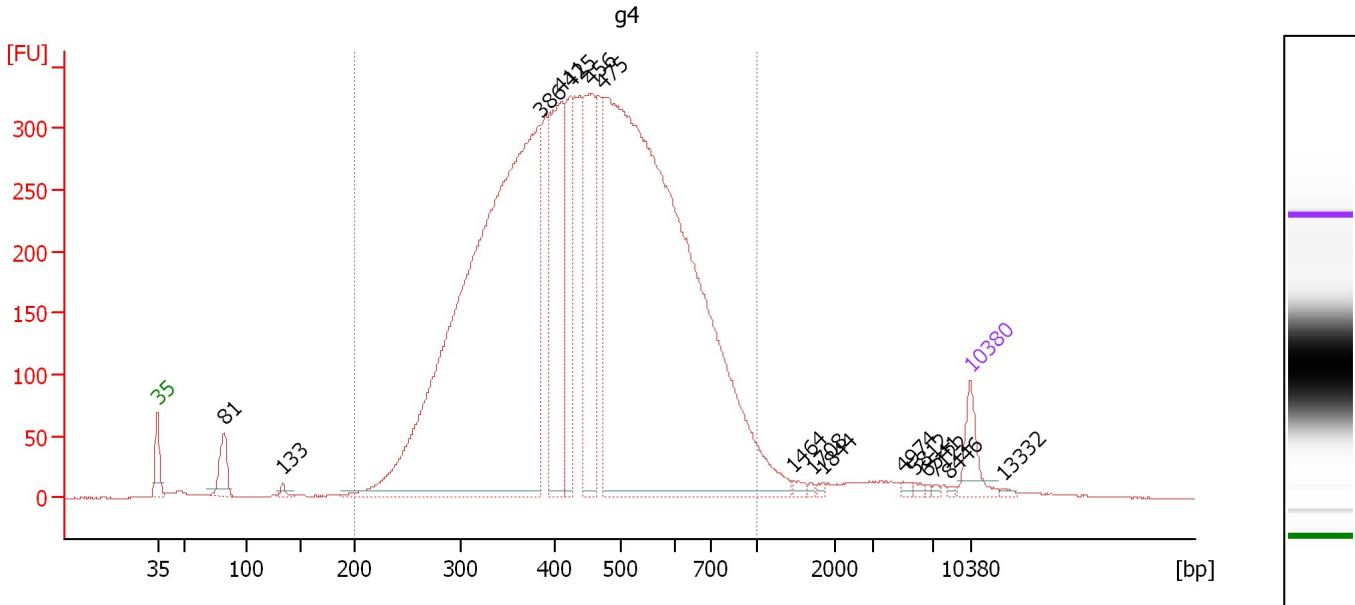
Region table for sample 7 : g3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	476	19,220.4	5,322.19	4,685.3	94	30.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : g4

Number of peaks found: 16 Corr. Area 1: 8,648.4
 Noise: 0.3

Peak table for sample 8 : g4

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.71	81	124.33	2,311.5	
3	53.80	133	17.25	196.4	
4	75.98	386	3,212.75	12,622.9	
5	77.79	411	578.28	2,130.5	
6	78.59	425	355.16	1,264.9	
7	80.36	456	514.71	1,709.2	
8	81.40	475	3,721.54	11,880.0	
9	97.77	1,464	13.55	14.0	
10	99.39	1,708	5.78	5.1	
11	100.29	1,844	6.87	5.6	
12	107.19	4,974	8.51	2.6	
13	108.29	5,812	7.86	2.0	
14	109.24	6,541	4.84	1.1	
15	109.95	7,122	4.89	1.0	
16	111.19	8,446	3.48	0.6	
17	113.00	10,380	75.00	10.9	Upper Marker
18	115.76	13,332	0.00	0.0	

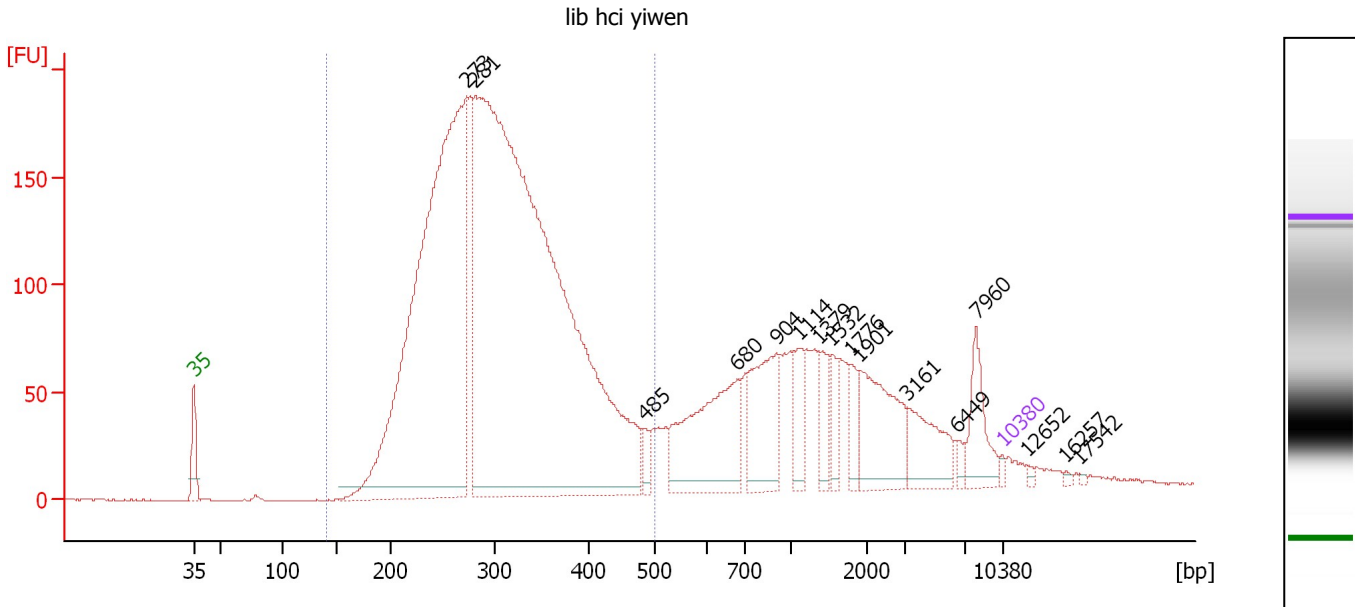
Region table for sample 8 : g4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	464	33,962.3	9,255.03	8,648.4	95	29.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : lib hci yiwen

Number of peaks found: 16 Corr. Area 1: 3,773.9
 Noise: 0.4

Peak table for sample 9 : lib hci yiwen

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	66.59	273	21,841.27	121,165.5	
3	67.29	281	37,138.58	200,406.7	
4	81.97	485	352.01	1,100.6	
5	90.05	680	3,654.41	8,147.5	
6	93.42	904	2,104.69	3,527.2	
7	95.45	1,114	760.52	1,034.5	
8	97.21	1,379	569.36	625.7	
9	98.22	1,532	412.10	407.6	
10	99.84	1,776	444.33	379.1	
11	100.67	1,901	2,006.27	1,598.9	
12	104.83	3,161	1,184.91	568.0	
13	109.12	6,449	151.39	35.6	
14	110.74	7,960	967.92	184.2	
15	113.00	10,380	75.00	10.9	Upper Marker
16	115.12	12,652	0.00	0.0	
17	118.49	16,257	0.00	0.0	
18	119.70	17,542	0.00	0.0	

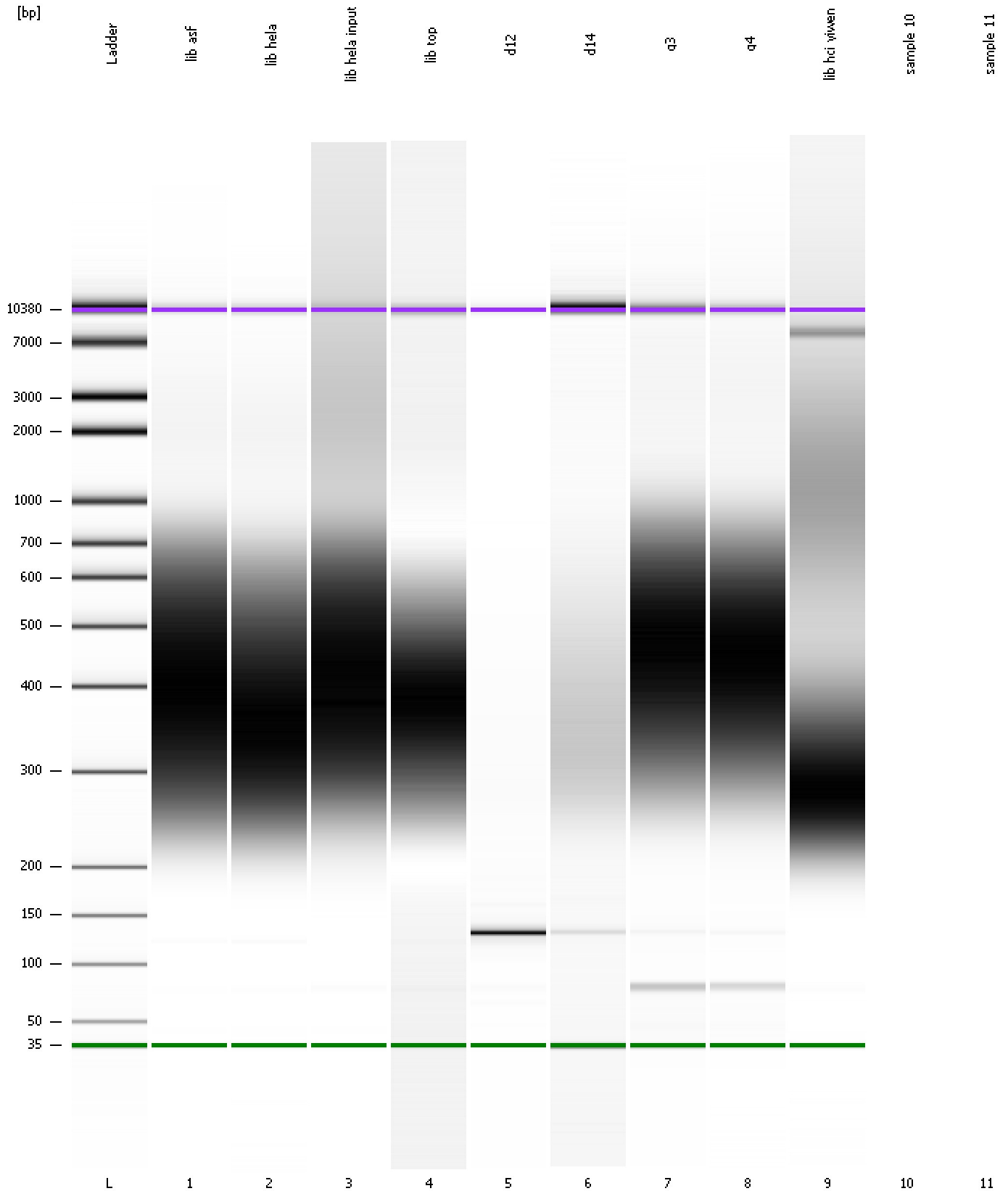
Region table for sample 9 : lib hci yiwen

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
141	500	307	300,844.8	57,569.95	3,773.9	72	21.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
Modified: 2/18/2014 3:58:17 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-18\2014-02-18_002.xad

Created: 2/18/2014 3:21:28 PM
Modified: 2/18/2014 3:58:17 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.