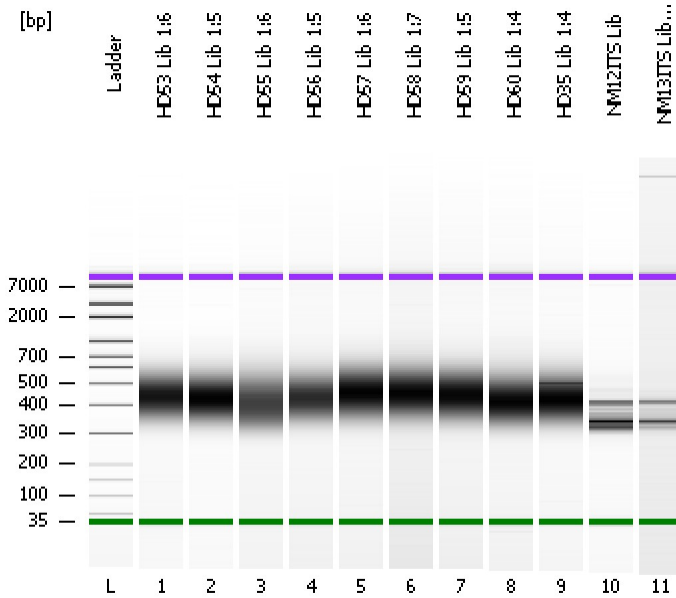


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
Modified: 1/9/2014 6:42:41 PM

Electrophoresis File Run Summary



Instrument Information:

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

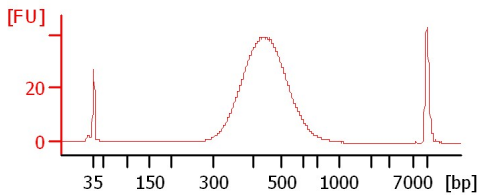
Assay Information:

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

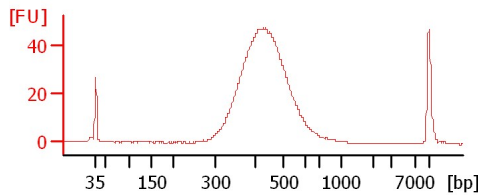
Chip Information:

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

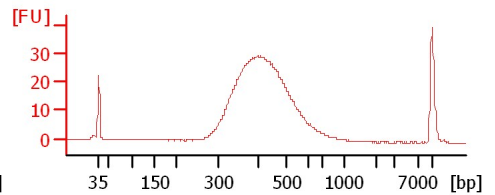
HD53 Lib 1:6



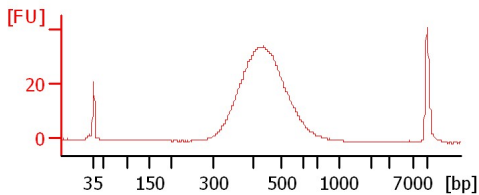
HD54 Lib 1:5



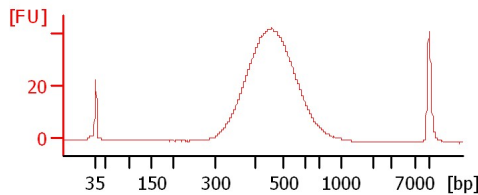
HD55 Lib 1:6



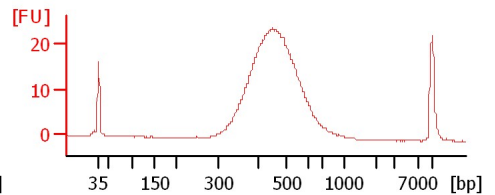
HD56 Lib 1:5



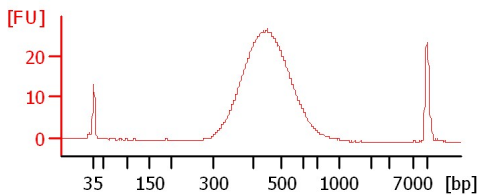
HD57 Lib 1:6



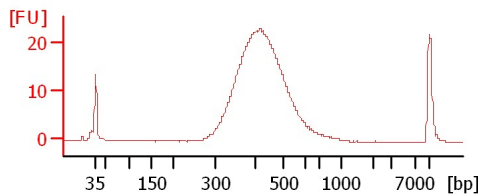
HD58 Lib 1:7



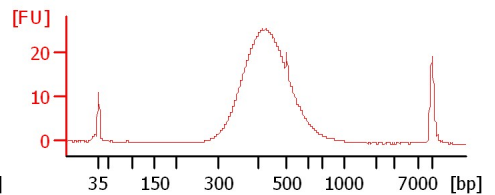
HD59 Lib 1:5



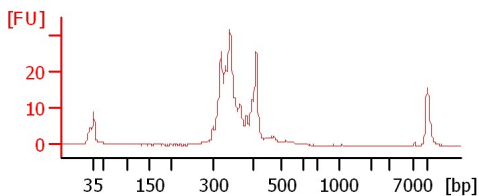
HD60 Lib 1:4



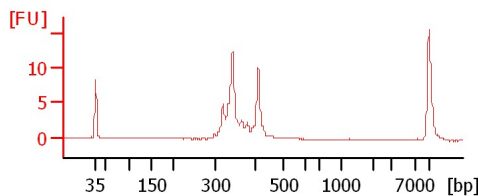
HD35 Lib 1:4



NM12ITS Lib



NM13ITS Lib 1:32



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
Modified: 1/9/2014 6:42:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HD53 Lib 1:6		<input type="checkbox"/>	✓			
HD54 Lib 1:5		<input type="checkbox"/>	✓			
HD55 Lib 1:6		<input type="checkbox"/>	✓			
HD56 Lib 1:5		<input type="checkbox"/>	✓			
HD57 Lib 1:6		<input type="checkbox"/>	✓			
HD58 Lib 1:7		<input type="checkbox"/>	✓			
HD59 Lib 1:5		<input type="checkbox"/>	✓			
HD60 Lib 1:4		<input type="checkbox"/>	✓			
HD35 Lib 1:4		<input type="checkbox"/>	✓			
NM12ITS Lib		<input type="checkbox"/>	✓			
NM13ITS Lib 1:32		<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\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 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

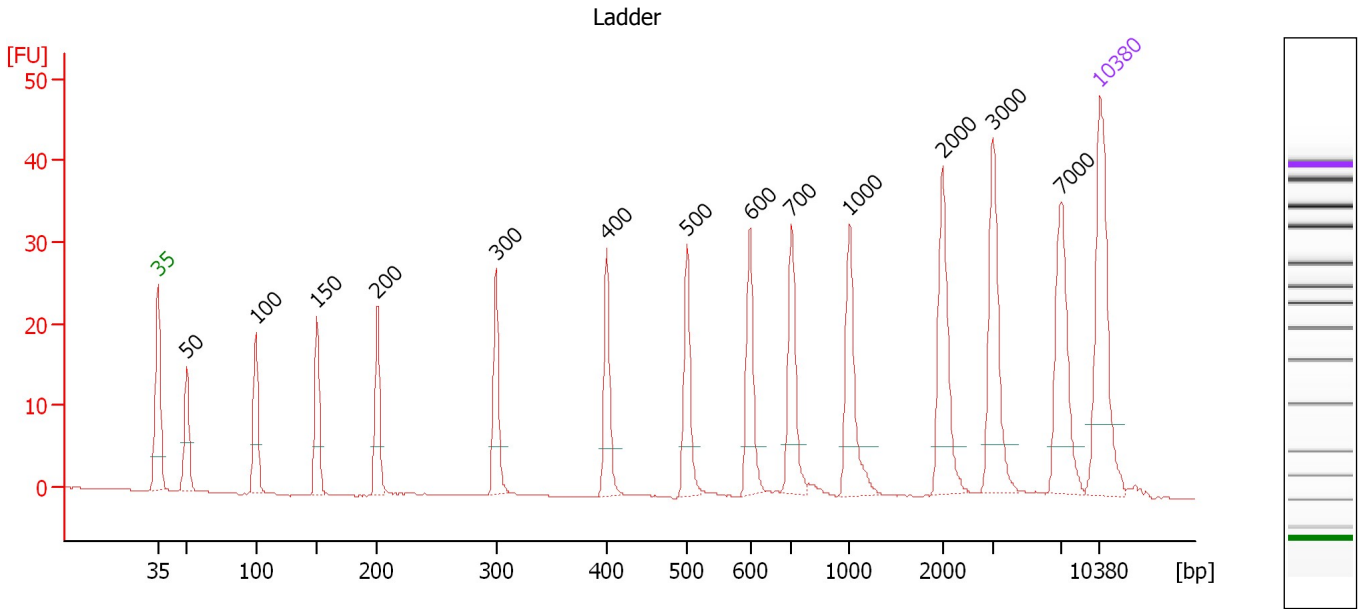
Ladder

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\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

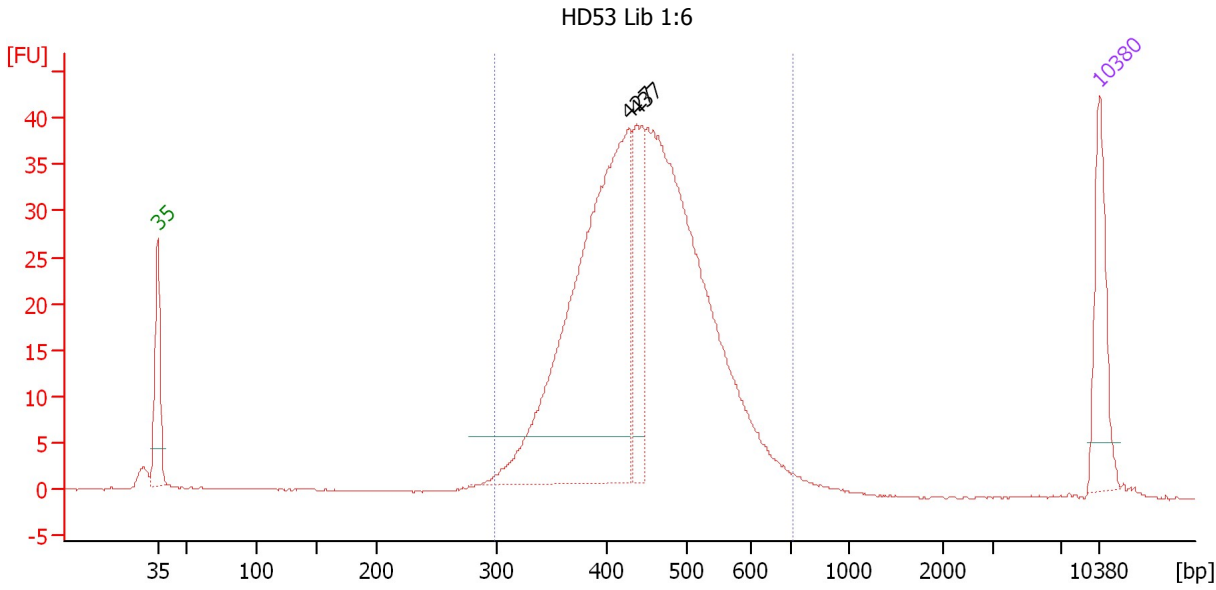
Peak table for Ladder

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	45.14	50	150.00	4,545.5	Ladder Peak
3	50.27	100	150.00	2,272.7	Ladder Peak
4	54.82	150	150.00	1,515.2	Ladder Peak
5	59.31	200	150.00	1,136.4	Ladder Peak
6	68.13	300	150.00	757.6	Ladder Peak
7	76.37	400	150.00	568.2	Ladder Peak
8	82.30	500	150.00	454.5	Ladder Peak
9	87.01	600	150.00	378.8	Ladder Peak
10	90.11	700	150.00	324.7	Ladder Peak
11	94.39	1,000	150.00	227.3	Ladder Peak
12	101.29	2,000	150.00	113.6	Ladder Peak
13	105.03	3,000	150.00	75.8	Ladder Peak
14	110.11	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\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HD53 Lib 1:6

Number of peaks found: 2 Corr. Area 1: 532.1
 Noise: 0.1

Peak table for sample 1 : HD53 Lib 1:6

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	78.00	427	645.10	2,286.5	
3	78.59	437	122.11	423.0	
4	113.00	10,380	75.00	10.9	Upper Marker

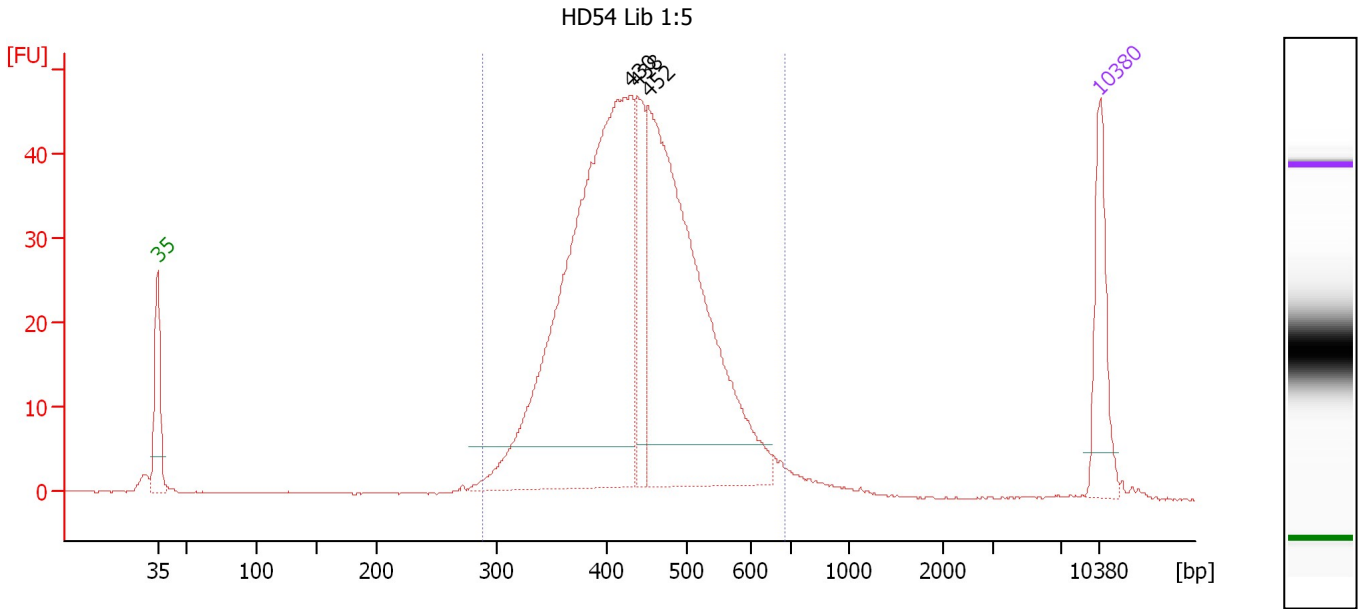
Region table for sample 1 : HD53 Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
298	704	449	5,394.0	1,549.43	532.1	96	16.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HD54 Lib 1:5

Number of peaks found: 3 Corr. Area 1: 647.5
 Noise: 0.1

Peak table for sample 2 : HD54 Lib 1:5

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	78.16	430	849.91	2,993.4	
3	78.65	438	108.46	374.9	
4	79.45	452	637.80	2,138.3	
5	113.00	10,380	75.00	10.9	Upper Marker

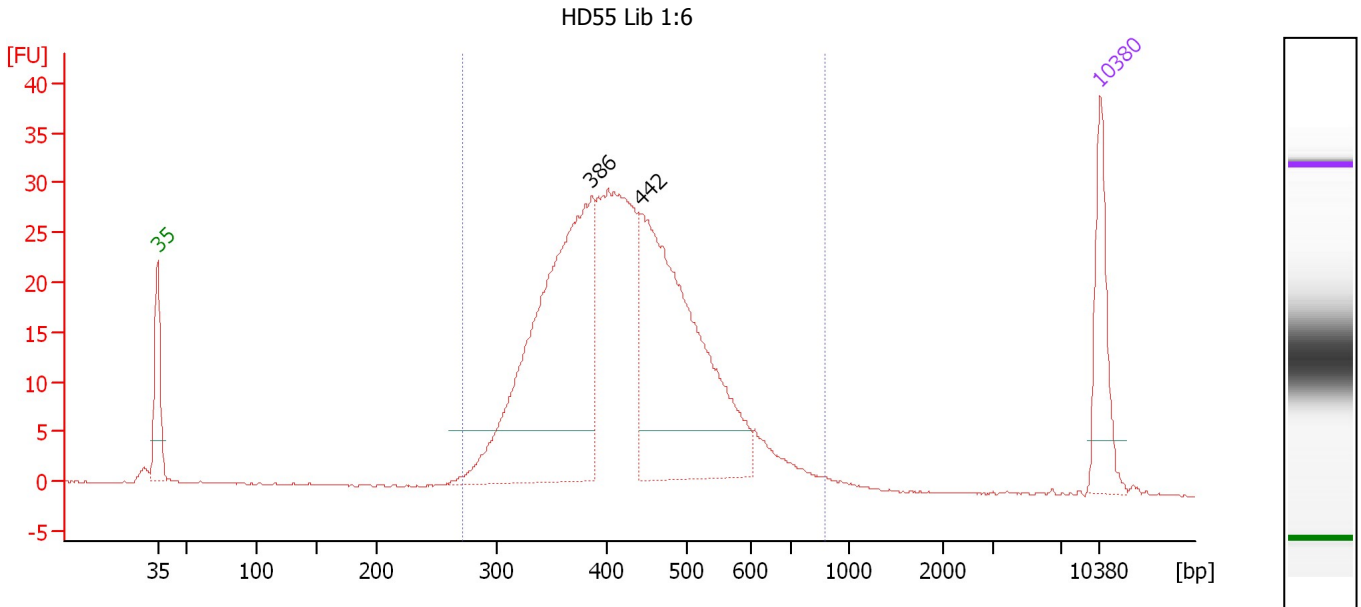
Region table for sample 2 : HD54 Lib 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
289	684	440	6,057.7	1,704.34	647.5	97	16.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HD55 Lib 1:6

Number of peaks found: 2 Corr. Area 1: 487.4
 Noise: 0.1

Peak table for sample 3 : HD55 Lib 1:6

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	75.22	386	562.01	2,205.5	
3	78.87	442	479.35	1,642.6	
4	113.00	10,380	75.00	10.9	Upper Marker

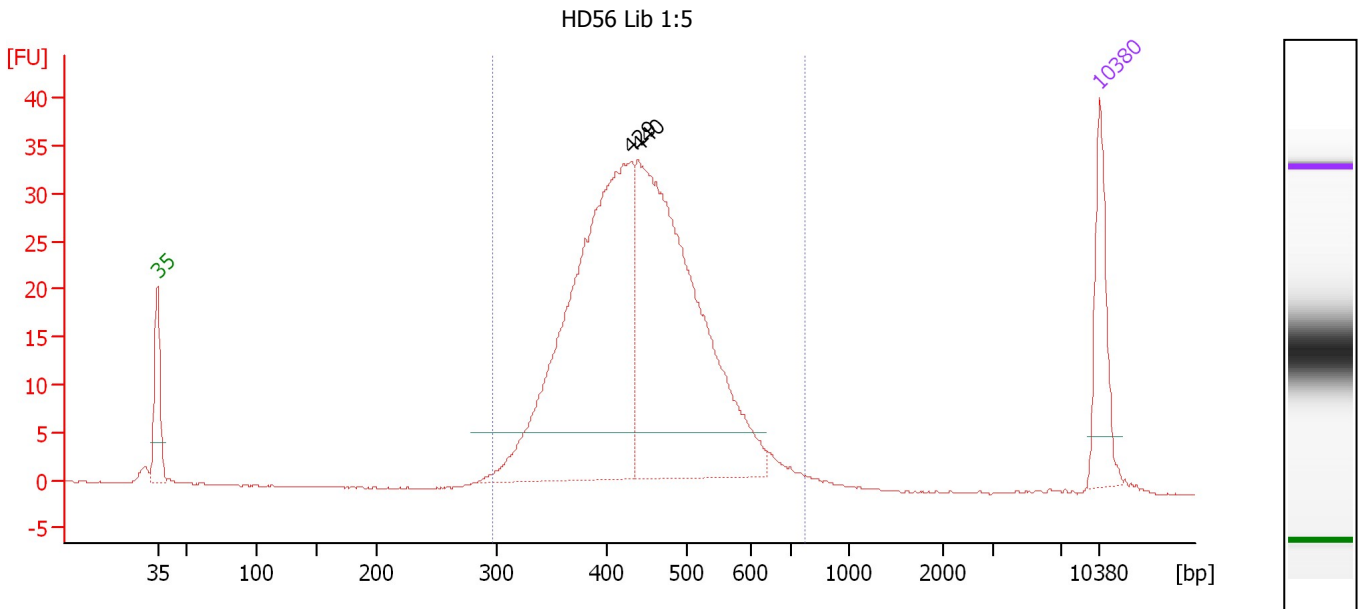
Region table for sample 3 : HD55 Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
273	868	432	5,662.8	1,535.74	487.4	97	20.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HD56 Lib 1:5

Number of peaks found: 2 Corr. Area 1: 464.6
 Noise: 0.1

Peak table for sample 4 : HD56 Lib 1:5

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	78.11	429	684.76	2,416.5	
3	78.72	440	670.45	2,311.0	
4	113.00	10,380	75.00	10.9	Upper Marker

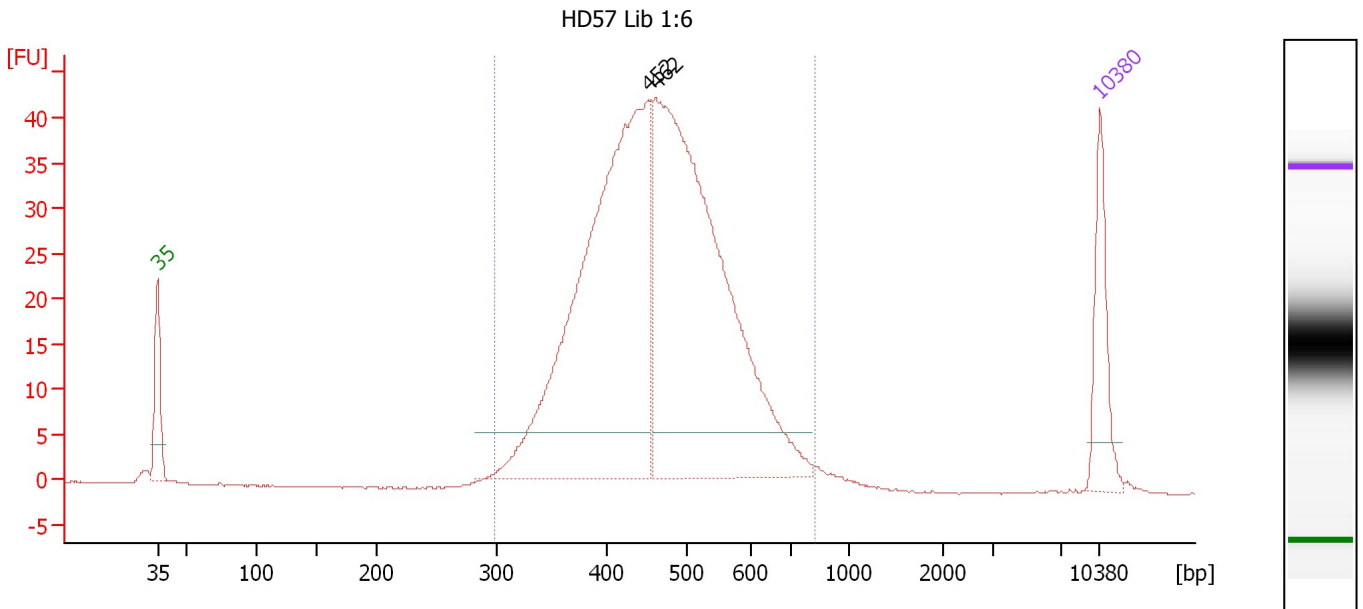
Region table for sample 4 : HD56 Lib 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
296	766	446	5,189.8	1,476.91	464.6	96	17.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HD57 Lib 1:6

Number of peaks found: 2 Corr. Area 1: 608.5
 Noise: 0.1

Peak table for sample 5 : HD57 Lib 1:6

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	79.45	452	831.71	2,788.4	
3	80.07	462	864.93	2,834.9	
4	113.00	10,380	75.00	10.9	Upper Marker

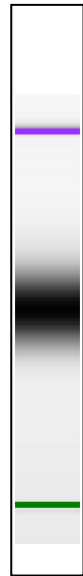
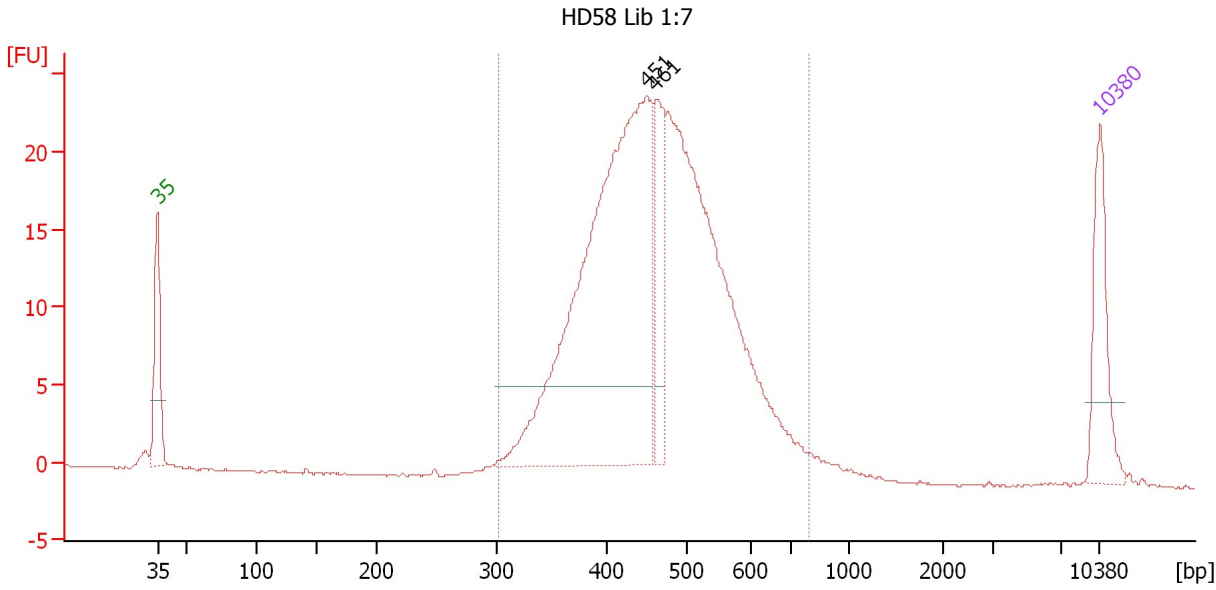
Region table for sample 5 : HD57 Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
299	815	468	6,098.7	1,810.69	608.5	97	18.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HD58 Lib 1:7

Number of peaks found: 2 Corr. Area 1: 333.8
 Noise: 0.1

Peak table for sample 6 : HD58 Lib 1:7

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	79.38	451	735.01	2,471.2	
3	79.99	461	100.32	329.7	
4	113.00	10,380	75.00	10.9	Upper Marker

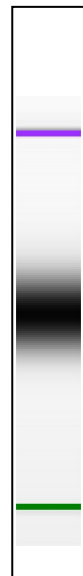
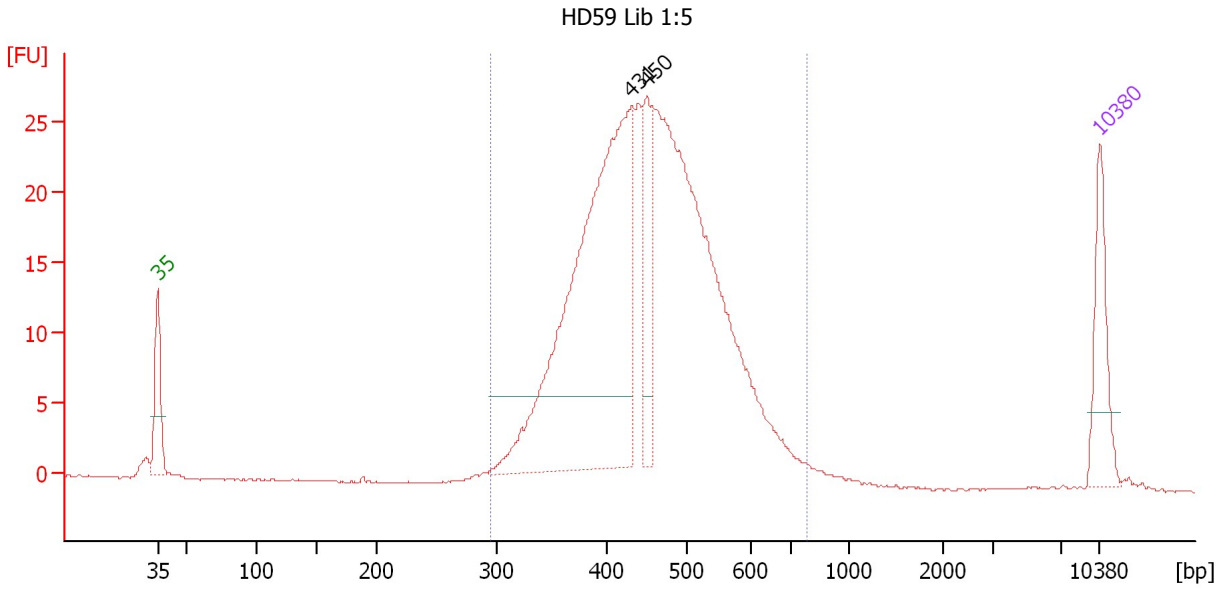
Region table for sample 6 : HD58 Lib 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
303	785	467	5,296.1	1,571.69	333.8	97	17.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HD59 Lib 1:5

Number of peaks found: 2 Corr. Area 1: 376.2
 Noise: 0.1

Peak table for sample 7 : HD59 Lib 1:5

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	78.20	431	752.61	2,646.9	
3	79.33	450	112.88	380.2	
4	113.00	10,380	75.00	10.9	Upper Marker

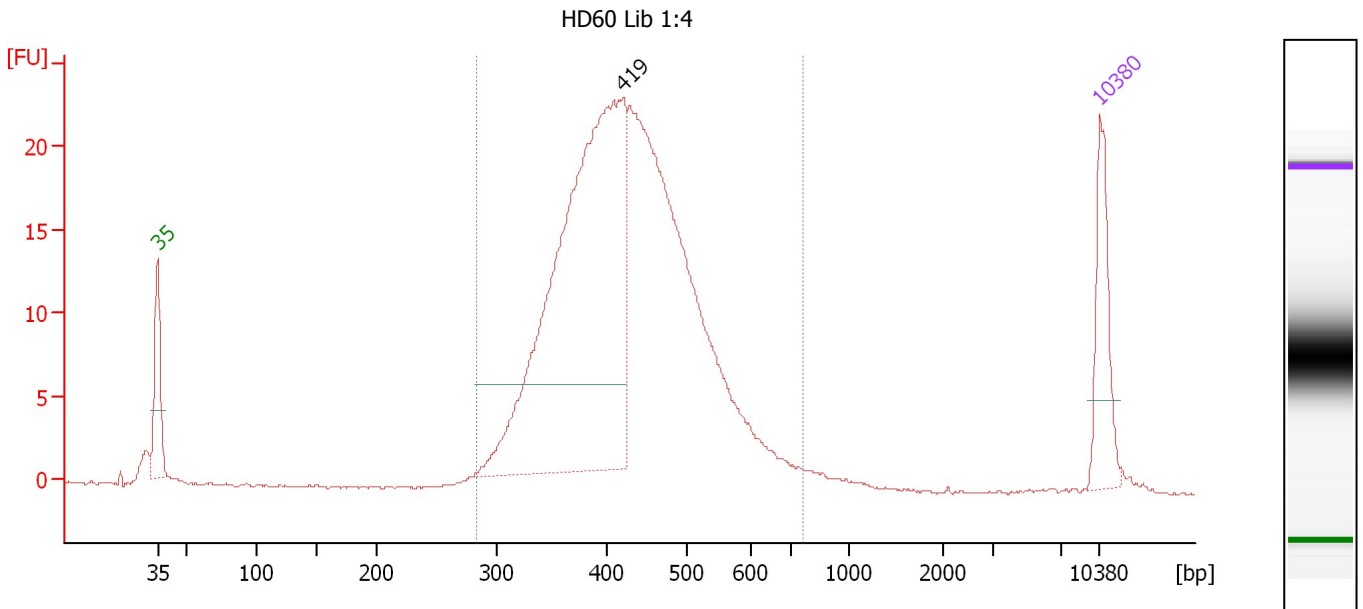
Region table for sample 7 : HD59 Lib 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
295	779	458	6,554.2	1,908.97	376.2	97	17.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HD60 Lib 1:4

Number of peaks found: 1 Corr. Area 1: 321.2
 Noise: 0.1

Peak table for sample 8 : HD60 Lib 1:4

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	77.52	419	821.16	2,966.8	
3	113.00	10,380	75.00	10.9	Upper Marker

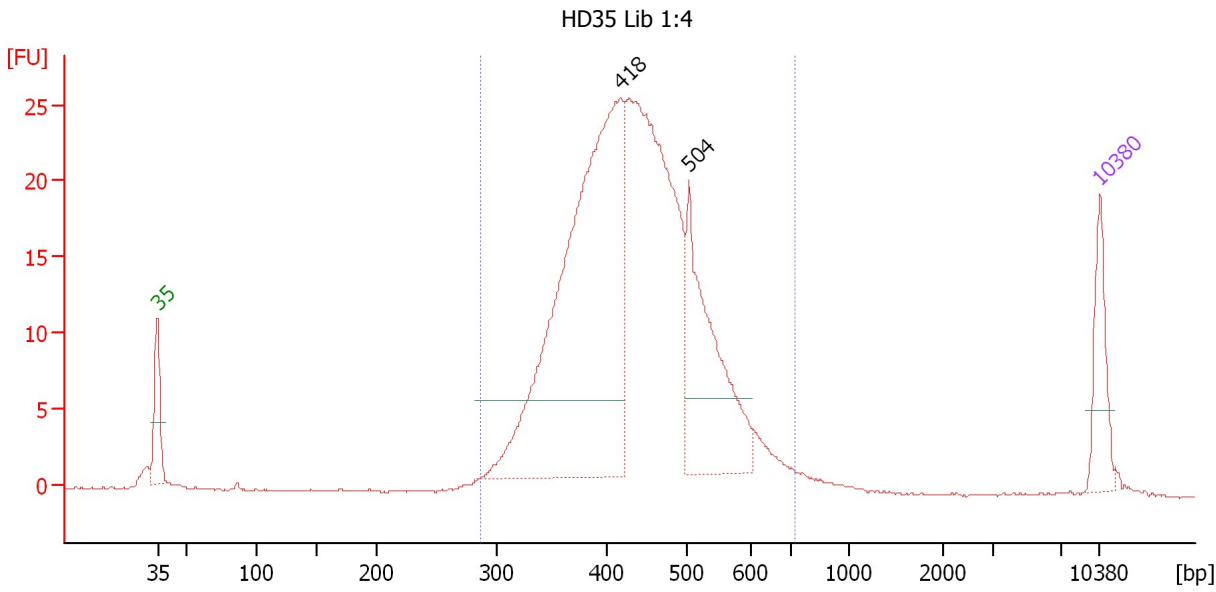
Region table for sample 8 : HD60 Lib 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
284	760	433	6,209.6	1,711.68	321.2	96	17.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HD35 Lib 1:4

Number of peaks found: 2 Corr. Area 1: 348.5
 Noise: 0.1

Peak table for sample 9 : HD35 Lib 1:4

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	77.41	418	1,001.71	3,635.0	
3	82.47	504	327.36	985.1	
4	113.00	10,380	75.00	10.9	Upper Marker

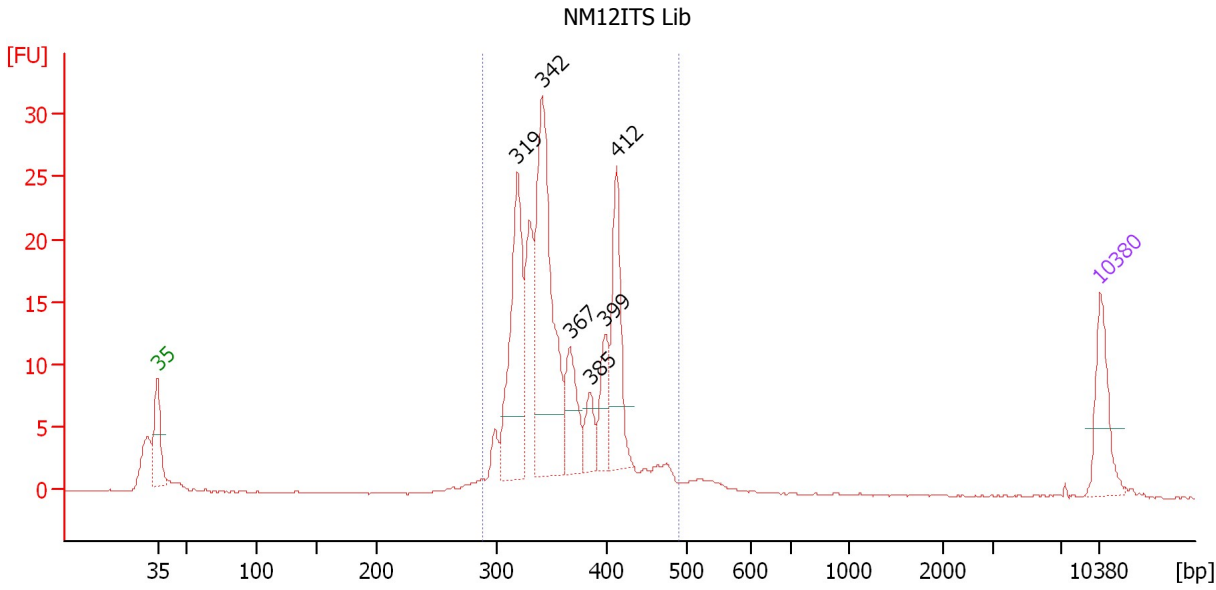
Region table for sample 9 : HD35 Lib 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
287	720	440	8,434.0	2,365.12	348.5	96	16.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : NM12ITS Lib

Number of peaks found: 6 Corr. Area 1: 185.2
 Noise: 0.1

Peak table for sample 10 : NM12ITS Lib

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	69.71	319	270.88	1,285.9	
3	71.56	342	396.68	1,759.4	
4	73.63	367	91.16	376.6	
5	75.14	385	45.04	177.2	
6	76.26	399	69.14	262.7	
7	77.10	412	160.48	589.6	
8	113.00	10,380	75.00	10.9	Upper Marker

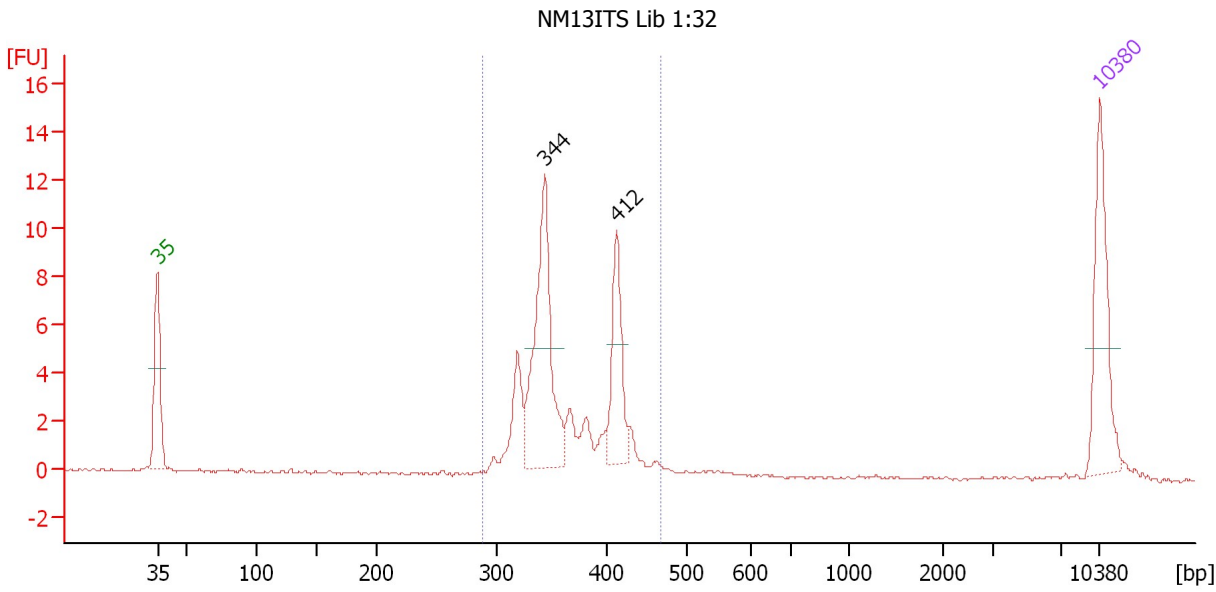
Region table for sample 10 : NM12ITS Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
289	489	360	6,034.6	1,415.98	185.2	90	11.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
 Modified: 1/9/2014 6:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : NM13ITS Lib 1:32

Number of peaks found: 2 Corr. Area 1: 47.5
 Noise: 0.1

Peak table for sample 11 : NM13ITS Lib 1:32

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	71.74	344	168.97	744.7	
3	77.11	412	73.34	269.5	
4	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : NM13ITS Lib 1:32

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
288	467	365	1,633.5	389.07	47.5	92	10.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-09\2014-01-09_004.xad

Created: 1/9/2014 5:57:48 PM
Modified: 1/9/2014 6:42:41 PM

Gel Image

