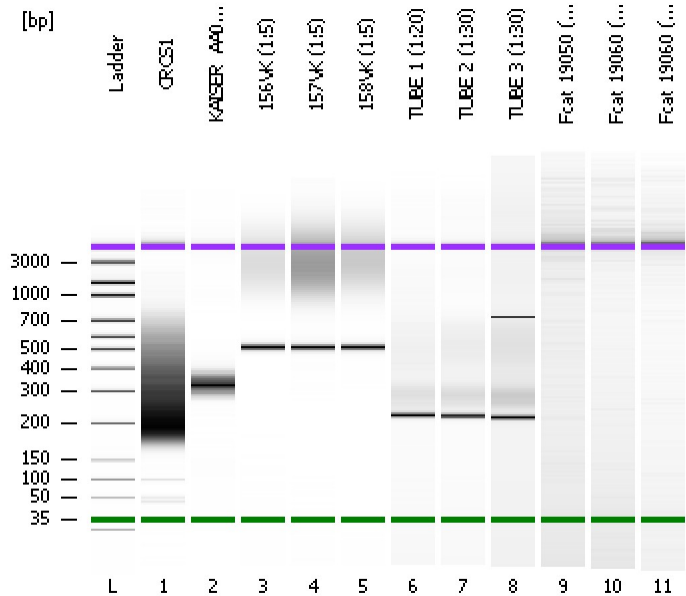


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
Modified: 7/3/2014 5:23:50 PM

Electrophoresis File Run Summary



Instrument Information:

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

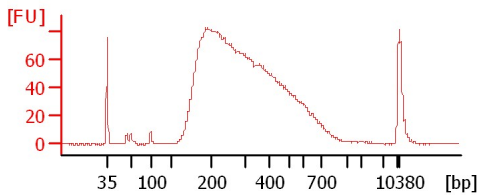
Assay Information:

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

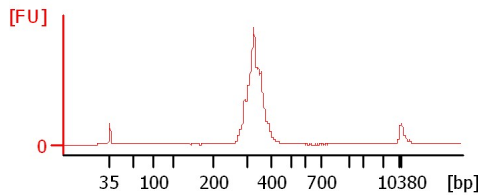
Chip Information:

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

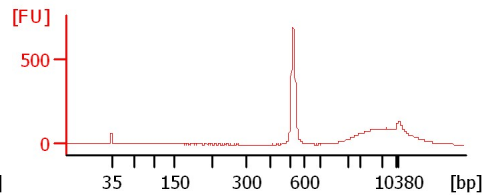
CRCS1



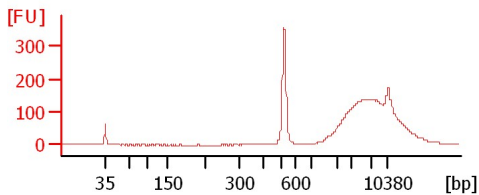
KAISER_AA07_01_2014 (1:2)



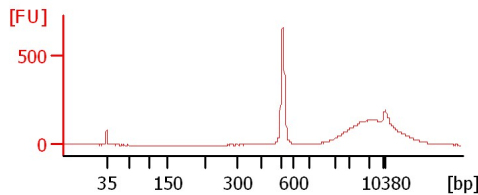
156VK (1:5)



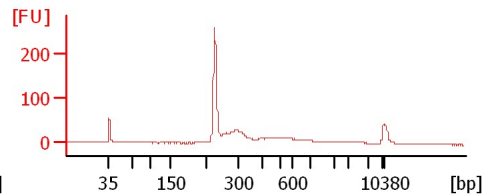
157VK (1:5)



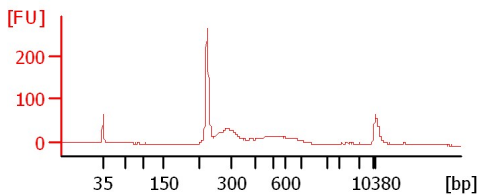
158VK (1:5)



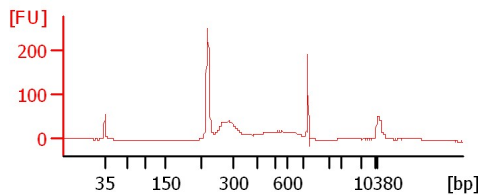
TUBE 1 (1:20)



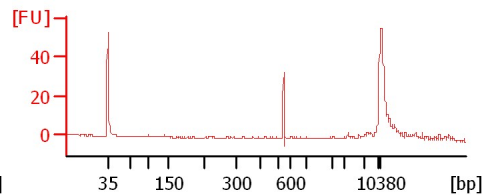
TUBE 2 (1:30)



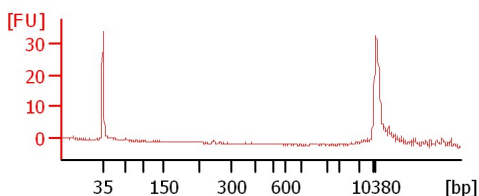
TUBE 3 (1:30)



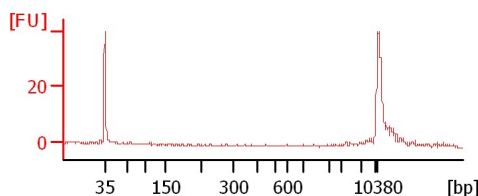
Fcat 19050 (1:40)



Fcat 19060 (1:40)



Fcat 19060 (1:40)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
Modified: 7/3/2014 5:23:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CRCS1		<input type="checkbox"/>	✓			
KAISER_AA07_01_2014 (1:2)		<input type="checkbox"/>	✓			
156VK (1:5)		<input type="checkbox"/>	✓			
157VK (1:5)		<input type="checkbox"/>	✓			
158VK (1:5)		<input type="checkbox"/>	✓			
TUBE 1 (1:20)		<input type="checkbox"/>	✓			
TUBE 2 (1:30)		<input type="checkbox"/>	✓			
TUBE 3 (1:30)		<input type="checkbox"/>	✓			
Fcat 19050 (1:40)		<input type="checkbox"/>	✓			
Fcat 19060 (1:40)		<input type="checkbox"/>	✓			
Fcat 19060 (1:40)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
Modified: 7/3/2014 5:23:50 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

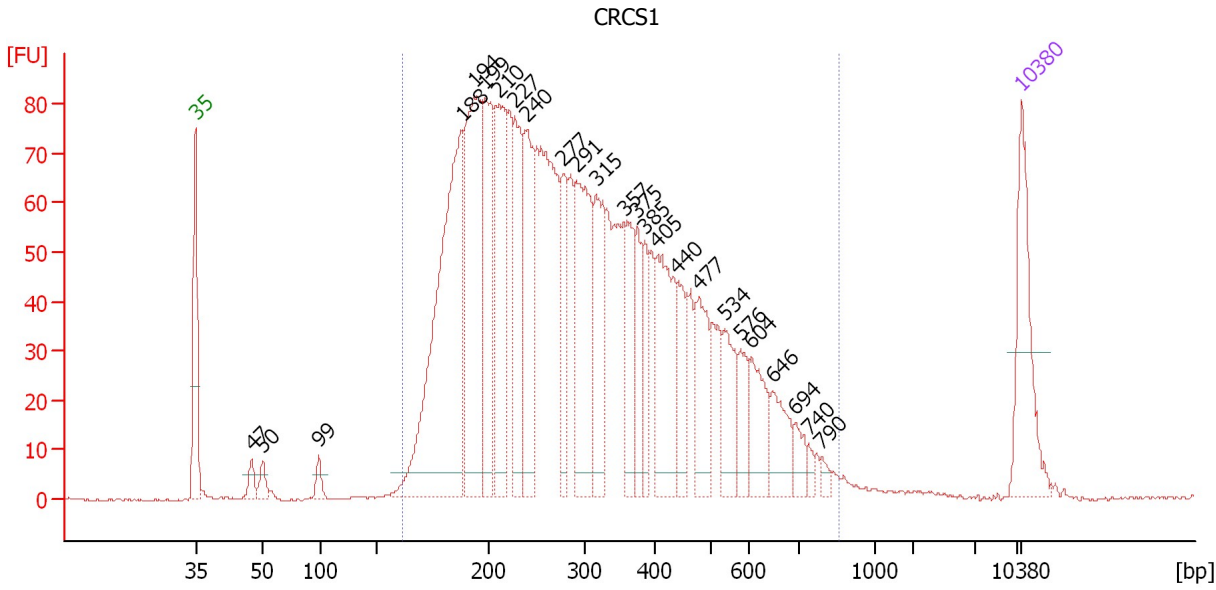
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary



Overall Results for sample 1 : CRCS1

Number of peaks found: 25 Corr. Area 1: 2,356.1
 Noise: 0.2

Peak table for sample 1 : CRCS1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	15.90	507.8	
3	50	16.28	494.0	
4	99	14.87	228.2	
5	188	437.47	3,521.2	
6	194	281.87	2,204.1	
7	199	166.99	1,272.6	
8	210	182.71	1,315.4	
9	227	118.50	789.3	
10	240	143.81	907.6	
11	277	75.29	412.1	
12	291	175.05	912.9	
13	315	109.29	525.3	
14	357	77.22	327.9	
15	375	46.62	188.2	
16	385	43.74	172.0	
17	405	116.69	436.9	
18	440	50.66	174.4	
19	477	70.30	223.5	
20	534	54.86	155.8	
21	576	31.73	83.5	
22	604	49.81	124.9	
23	646	42.13	98.9	
24	694	18.09	39.5	
25	740	6.52	13.3	
26	790	7.04	13.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...**... Peak table for sample 1 : CRCS1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker

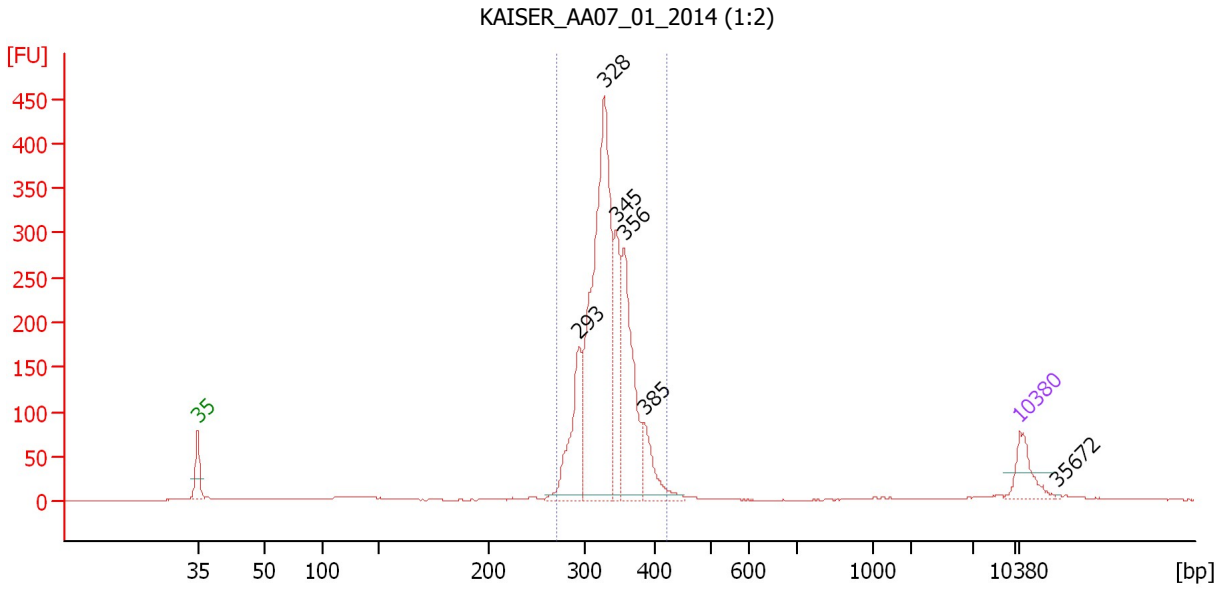
Region table for sample 1 : CRCS1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
162	857	326	17,654.0	3,046.34	2,356.1	98	43.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KAISER_AA07_01_2014 (1:2)

Number of peaks found: 6 Corr. Area 1: 2,116.3
 Noise: 0.2

Peak table for sample 2 : KAISER_AA07_01_2014 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	305.60	1,579.6	
3	328	1,158.48	5,359.0	
4	345	255.50	1,123.5	
5	356	435.90	1,854.2	
6	385	125.16	492.8	
7	10,380	75.00	10.9	Upper Marker
8	35,672	0.00	0.0	

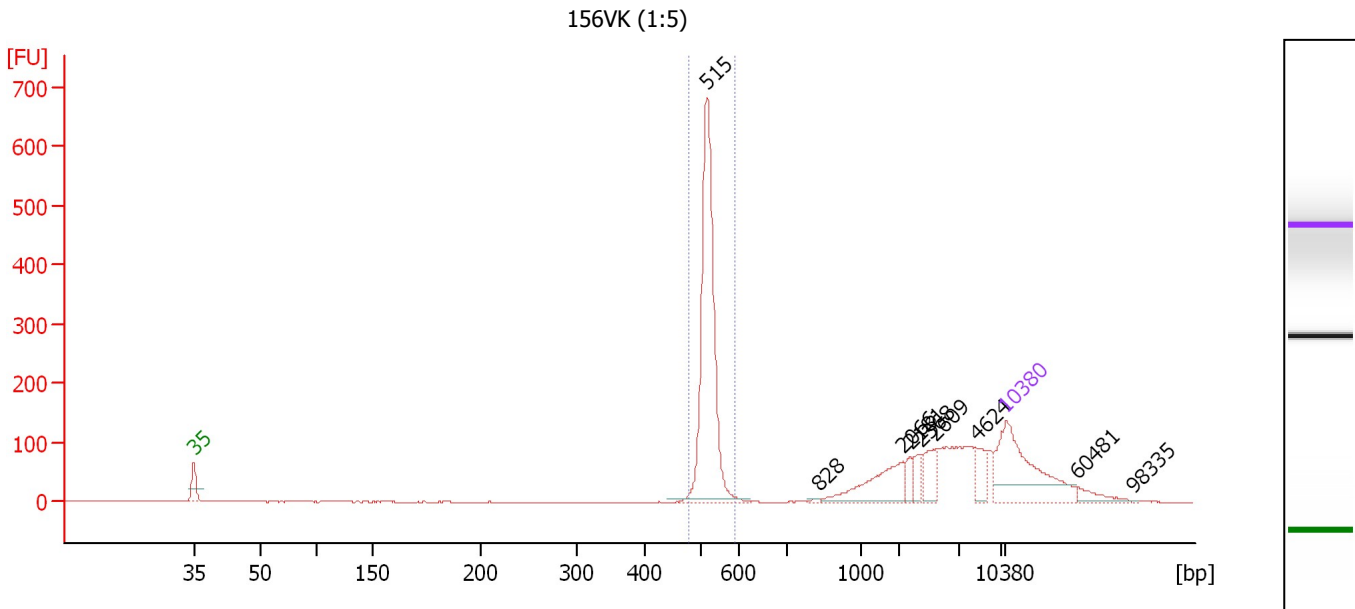
Region table for sample 2 : KAISER_AA07_01_2014 (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
270	421	333	10,437.2	2,277.69	2,116.3	91	8.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 156VK (1:5)

Number of peaks found: 9 Corr. Area 1: 972.7
 Noise: 0.6

Peak table for sample 3 : 156VK (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	515	230.34	677.1	
3	828	1.45	2.6	
4	2,066	42.00	30.8	
5	2,181	8.12	5.6	
6	2,368	11.23	7.2	
7	2,609	17.42	10.1	
8	4,624	15.71	5.1	
9	10,380	75.00	10.9	Upper Marker
10	60,481	0.00	0.0	
11	98,335	0.00	0.0	

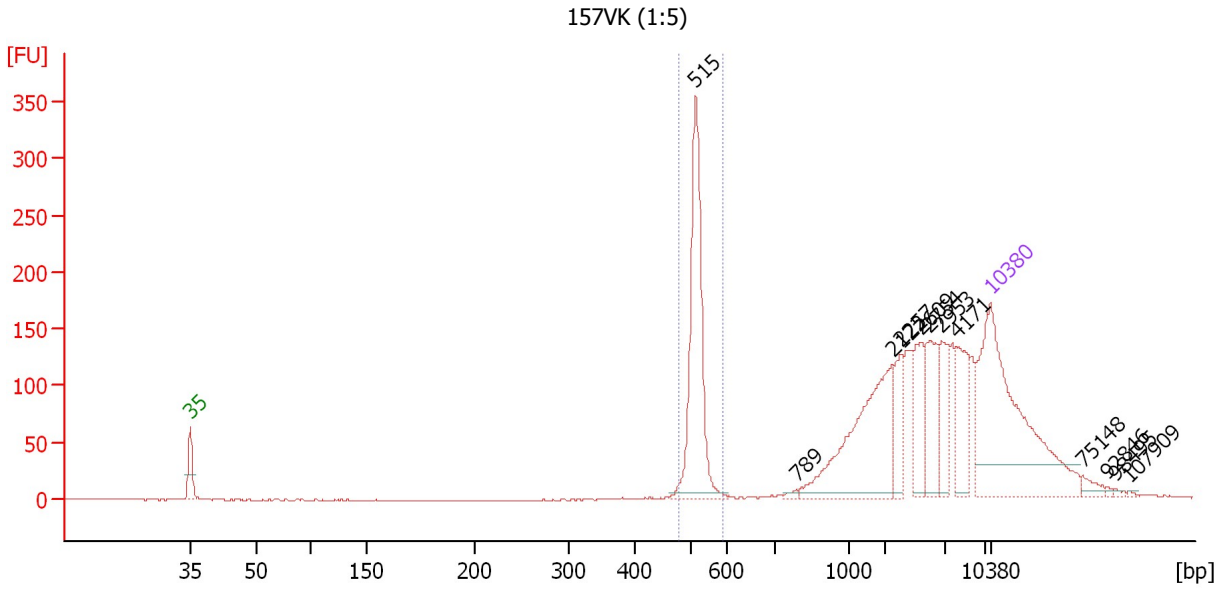
Region table for sample 3 : 156VK (1:5)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
480	589	519	655.9	224.74	972.7	50	3.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 157VK (1:5)

Number of peaks found: 12 Corr. Area 1: 465.3
 Noise: 0.5

Peak table for sample 4 : 157VK (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	515	78.76	231.6	
3	789	1.17	2.2	
4	2,122	56.20	40.1	
5	2,257	13.10	8.8	
6	2,609	16.41	9.5	
7	2,754	20.31	11.2	
8	2,953	14.13	7.3	
9	4,171	17.64	6.4	
10	10,380	75.00	10.9	Upper Marker
11	75,148	0.00	0.0	
12	92,846	0.00	0.0	
13	98,495	0.00	0.0	
14	107,909	0.00	0.0	

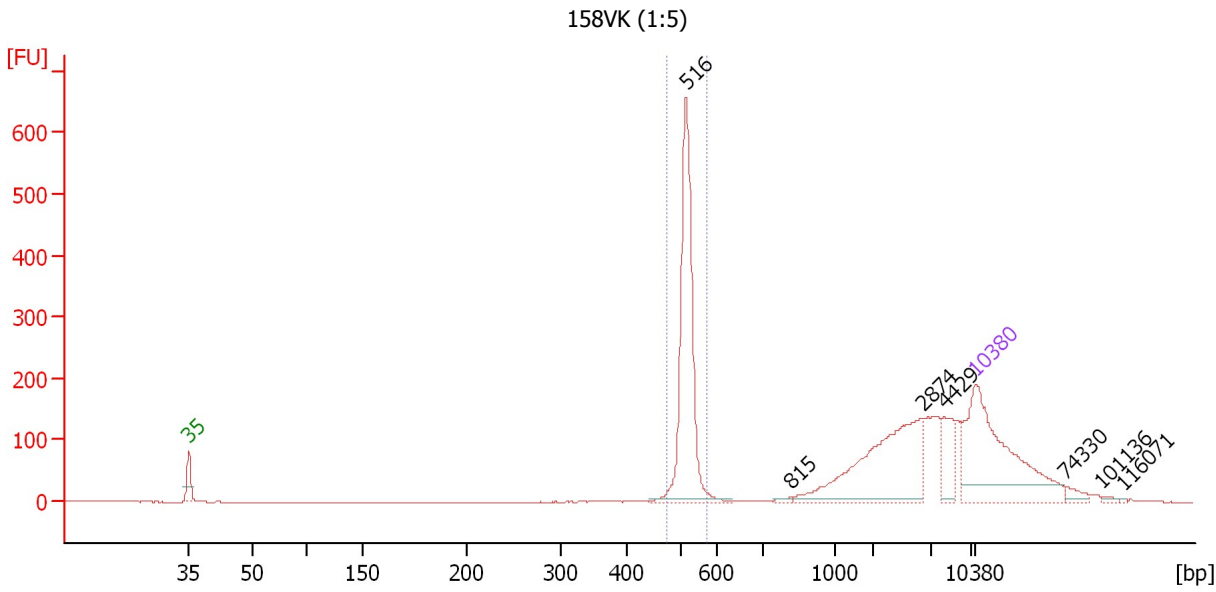
Region table for sample 4 : 157VK (1:5)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
478	588	517	224.7	76.69	465.3	25	3.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 158VK (1:5)

Number of peaks found: 7 Corr. Area 1: 881.2
 Noise: 0.4

Peak table for sample 5 : 158VK (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	516	127.94	375.4	
3	815	1.55	2.9	
4	2,874	79.50	41.9	
5	4,429	16.54	5.7	
6	10,380	75.00	10.9	Upper Marker
7	74,330	0.00	0.0	
8	101,136	0.00	0.0	
9	116,071	0.00	0.0	

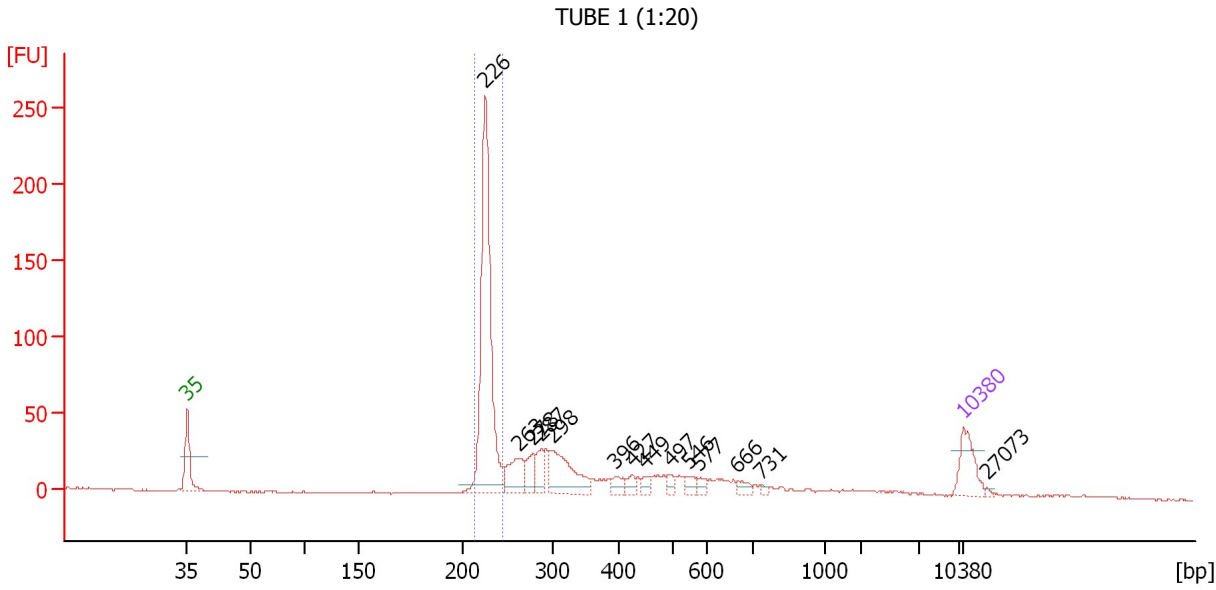
Region table for sample 5 : 158VK (1:5)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
475	575	518	358.1	122.44	881.2	40	3.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TUBE 1 (1:20)

Number of peaks found: 14 Corr. Area 1: 367.5
 Noise: 0.6

Peak table for sample 6 : TUBE 1 (1:20)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	226	822.52	5,516.8	
3	263	104.86	604.8	
4	278	58.92	321.3	
5	287	58.97	311.1	
6	298	184.07	934.9	
7	396	29.18	111.6	
8	427	23.11	82.0	
9	449	19.66	66.4	
10	497	21.78	66.5	
11	546	22.36	62.1	
12	577	16.76	44.0	
13	666	20.30	46.2	
14	731	8.10	16.8	
15	10,380	75.00	10.9	Upper Marker
16	27,073	0.00	0.0	

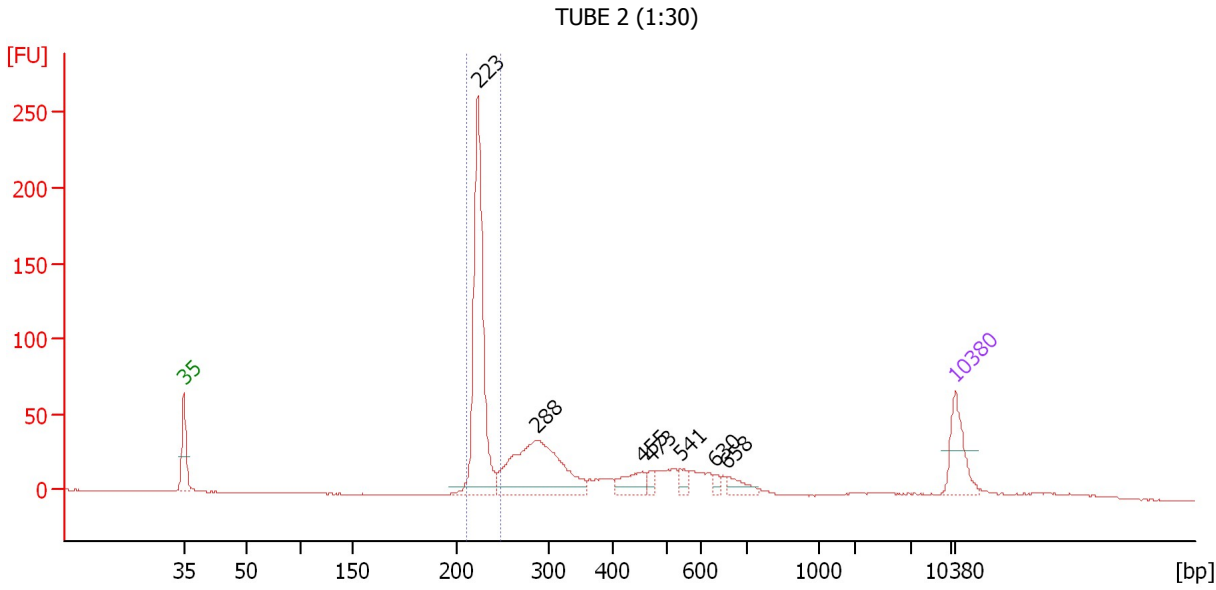
Region table for sample 6 : TUBE 1 (1:20)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
214	244	227	5,299.2	793.87	367.5	41	2.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : TUBE 2 (1:30)

Number of peaks found: 7 Corr. Area 1: 369.5
 Noise: 0.1

Peak table for sample 7 : TUBE 2 (1:30)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	578.83	3,934.1	
3	288	374.19	1,966.3	
4	455	54.94	182.8	
5	473	16.28	52.2	
6	541	20.37	57.1	
7	630	11.13	26.8	
8	658	30.32	69.8	
9	10,380	75.00	10.9	Upper Marker

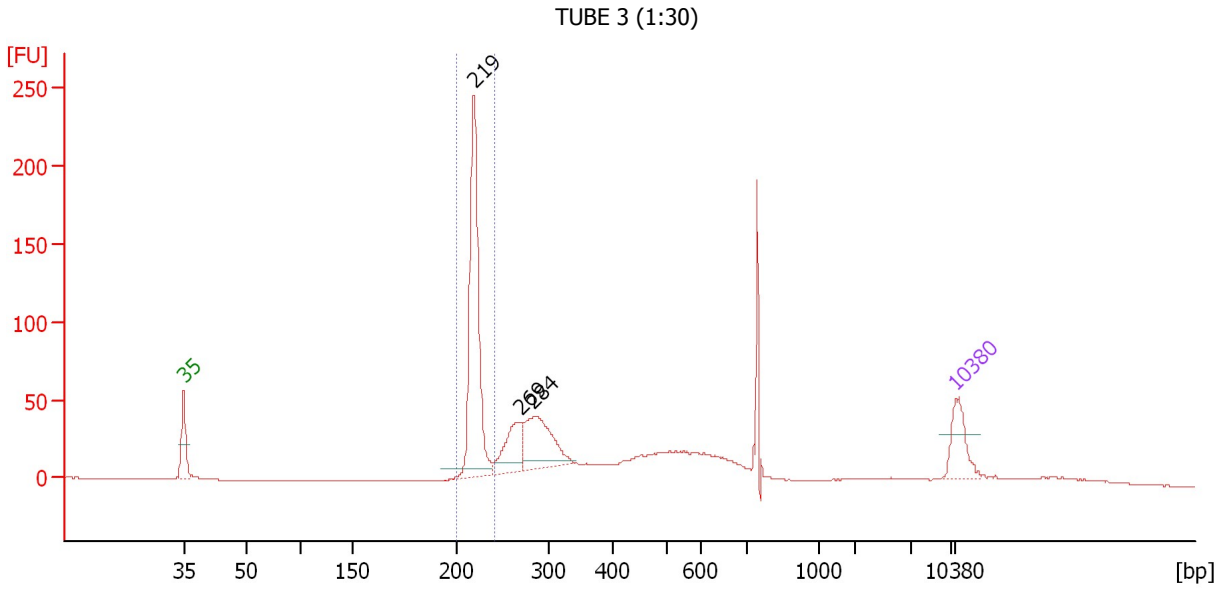
Region table for sample 7 : TUBE 2 (1:30)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
211	248	225	3,895.7	577.97	369.5	39	2.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

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 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : TUBE 3 (1:30)

Number of peaks found: 3 Corr. Area 1: 333.2
 Noise: 0.1

Peak table for sample 8 : TUBE 3 (1:30)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	219	588.68	4,079.7	
3	269	130.58	734.9	
4	284	219.63	1,170.6	
5	10,380	75.00	10.9	Upper Marker

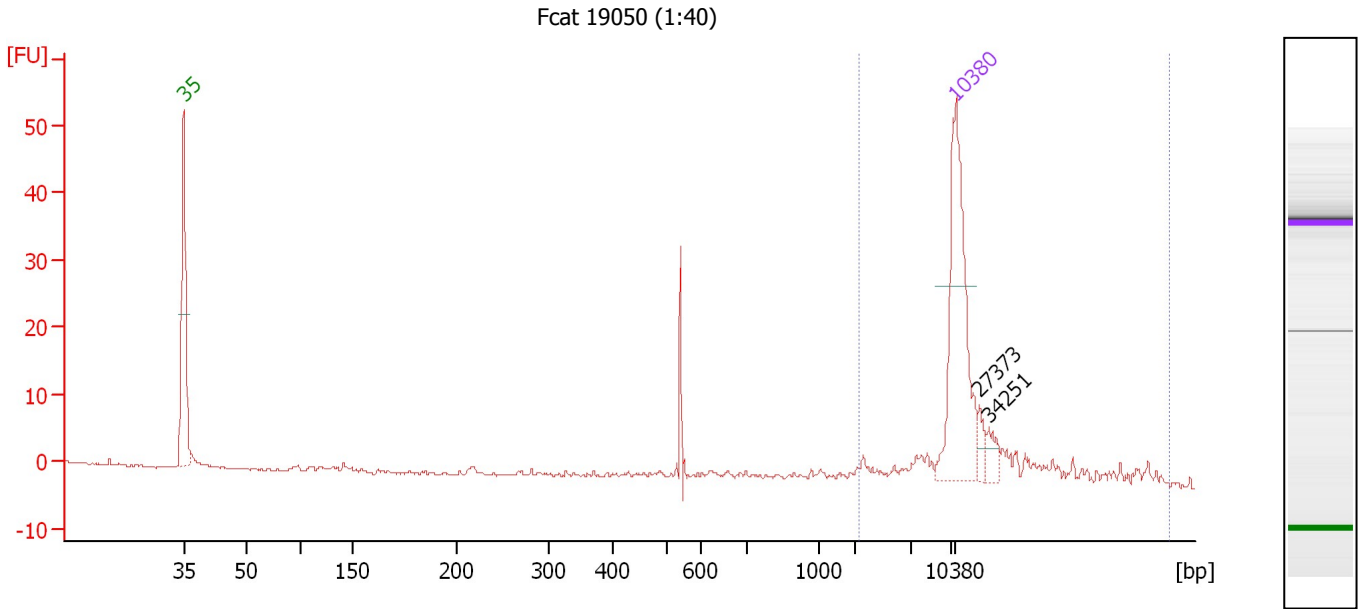
Region table for sample 8 : TUBE 3 (1:30)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	240	220	4,218.7	611.61	333.2	32	2.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Fcat 19050 (1:40)

Number of peaks found: 2 Corr. Area 1: 49.8
 Noise: 0.2

Peak table for sample 9 : Fcat 19050 (1:40)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	27,373	0.00	0.0	
4	34,251	0.00	0.0	

Region table for sample 9 : Fcat 19050 (1:40)

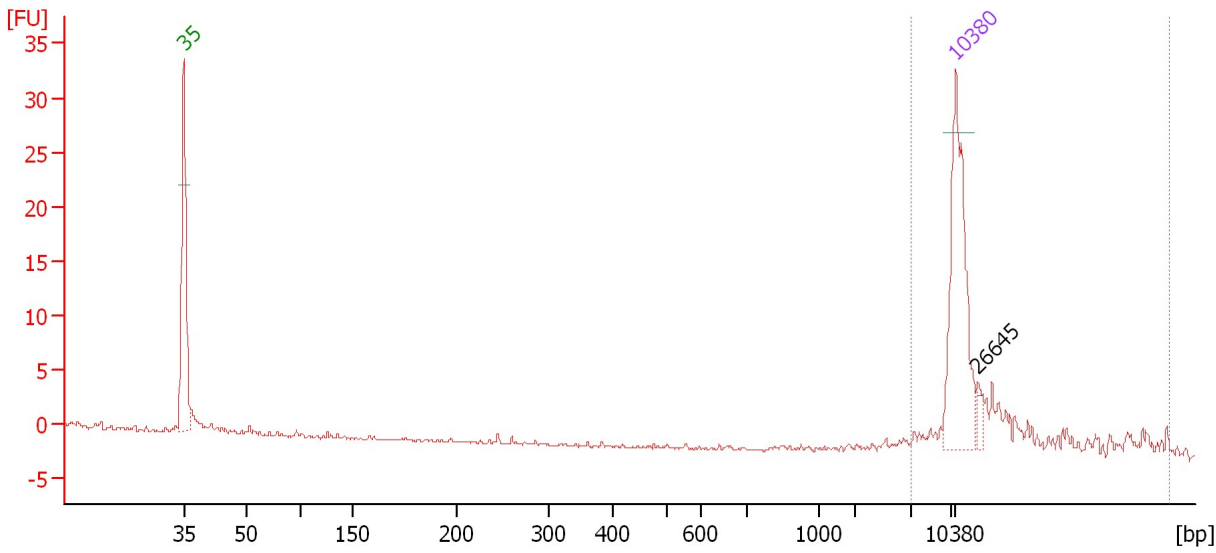
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
2,093	166,255	29,938	5.8	33.79	49.8	75	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...

Fcat 19060 (1:40)



Overall Results for sample 10 : Fcat 19060 (1:40)

Number of peaks found: 1 Corr. Area 1: 25.9
 Noise: 0.1

Peak table for sample 10 : Fcat 19060 (1:40)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	26,645	0.00	0.0	

Region table for sample 10 : Fcat 19060 (1:40)

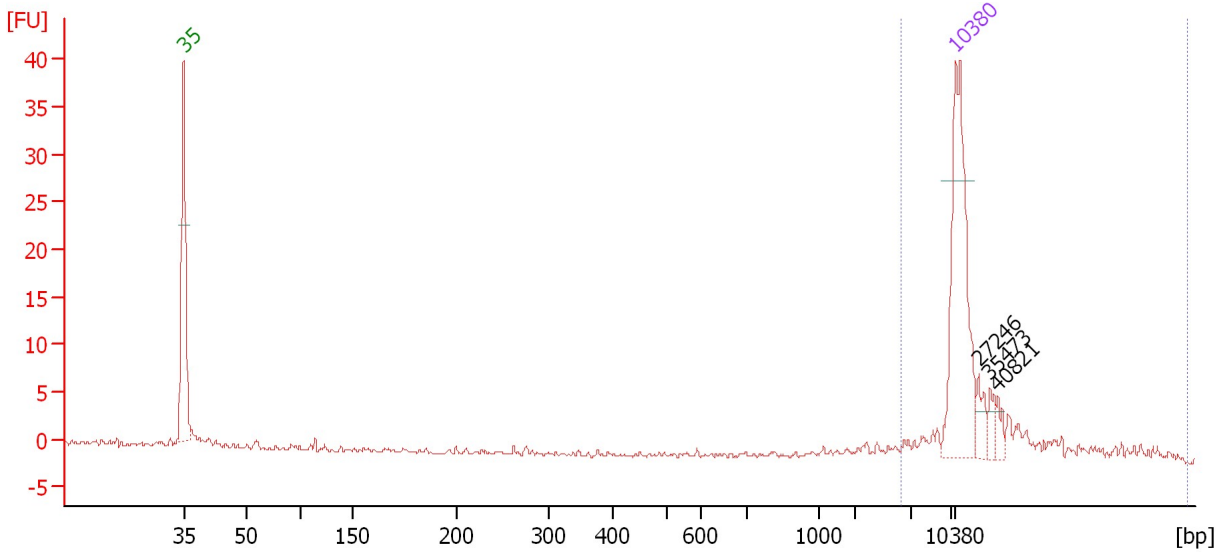
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
2,988	167,383	32,713	2.1	28.98	25.9	89	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
 Modified: 7/3/2014 5:23:50 PM

Electropherogram Summary Continued ...

Fcat 19060 (1:40)



Overall Results for sample 11 : Fcat 19060 (1:40)

Number of peaks found: 3 Corr. Area 1: 34.1
 Noise: 0.2

Peak table for sample 11 : Fcat 19060 (1:40)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	27,246	0.00	0.0	
4	35,473	0.00	0.0	
5	40,821	0.00	0.0	

Region table for sample 11 : Fcat 19060 (1:40)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
2,829	179,676	31,079	3.2	32.35	34.1	84	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03_003.xad

Created: 7/3/2014 4:38:57 PM
Modified: 7/3/2014 5:23:50 PM

Gel Image

