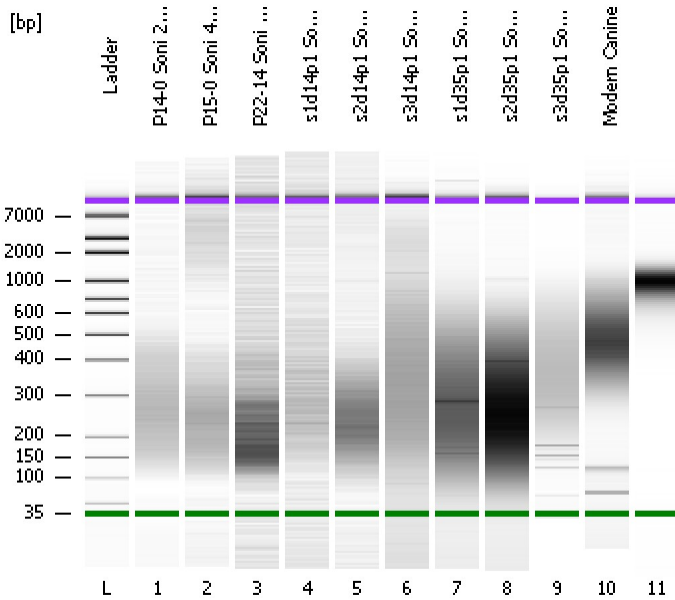


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
Modified: 3/19/2014 12:00:54 PM

Electrophoresis File Run Summary



Instrument Information:

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

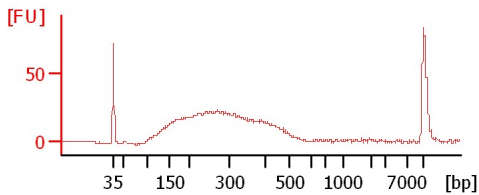
Assay Information:

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

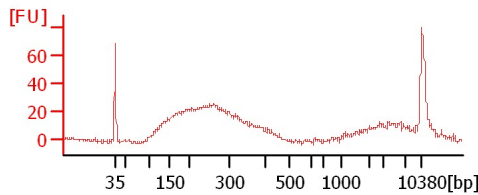
Chip Information:

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

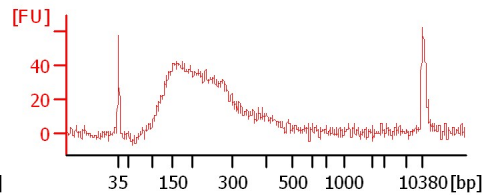
P14-0 Soni 2 cyc



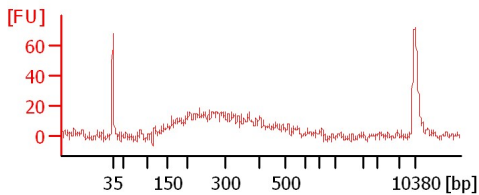
P15-0 Soni 4 cyc



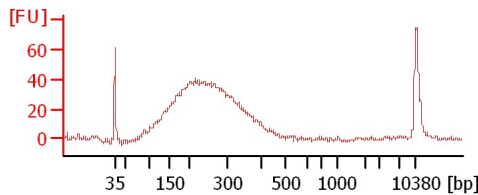
P22-14 Soni 3 cyc



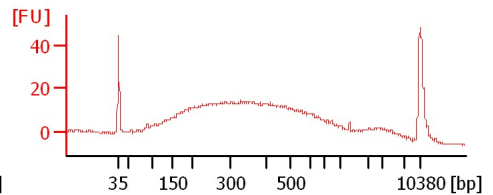
s1d14p1 Soni 7 cyc



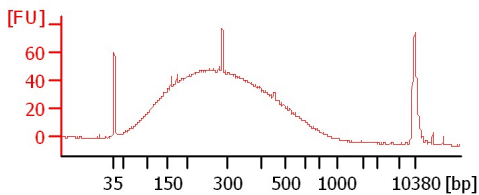
s2d14p1 Soni 7 cyc



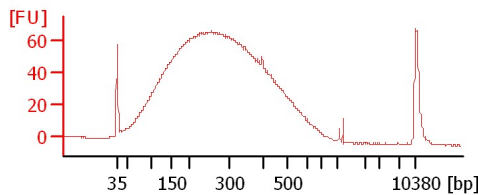
s3d14p1 Soni 7 cyc



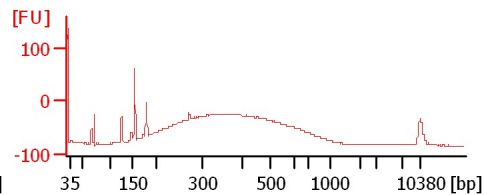
s1d35p1 Soni 7 cyc



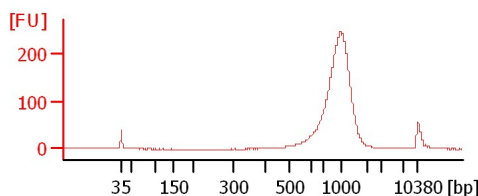
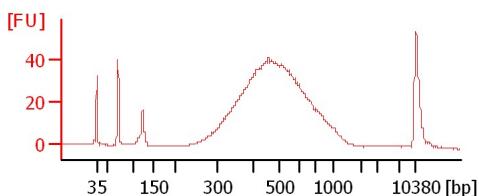
s2d35p1 Soni 7 cyc



s3d35p1 Soni 7 cyc



Modern Canine



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
Modified: 3/19/2014 12:00:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P14-0 Soni 2 cyc		<input type="checkbox"/>	✓			
P15-0 Soni 4 cyc		<input type="checkbox"/>	✓			
P22-14 Soni 3 cyc		<input type="checkbox"/>	✓			
s1d14p1 Soni 7 cyc		<input type="checkbox"/>	✓			
s2d14p1 Soni 7 cyc		<input type="checkbox"/>	✓			
s3d14p1 Soni 7 cyc		<input type="checkbox"/>	✓			
s1d35p1 Soni 7 cyc		<input type="checkbox"/>	✓			
s2d35p1 Soni 7 cyc		<input type="checkbox"/>	✓			
s3d35p1 Soni 7 cyc		<input type="checkbox"/>	✓			
Modern Canine		<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\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
Modified: 3/19/2014 12:00:54 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

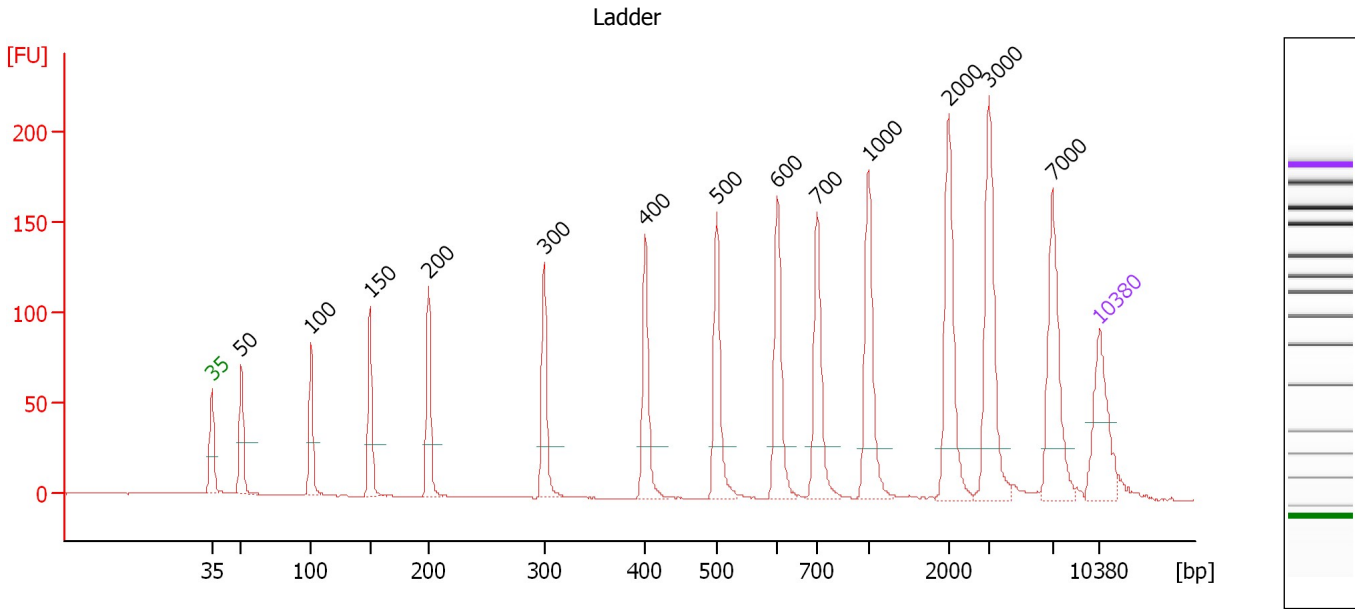
Ladder

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\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

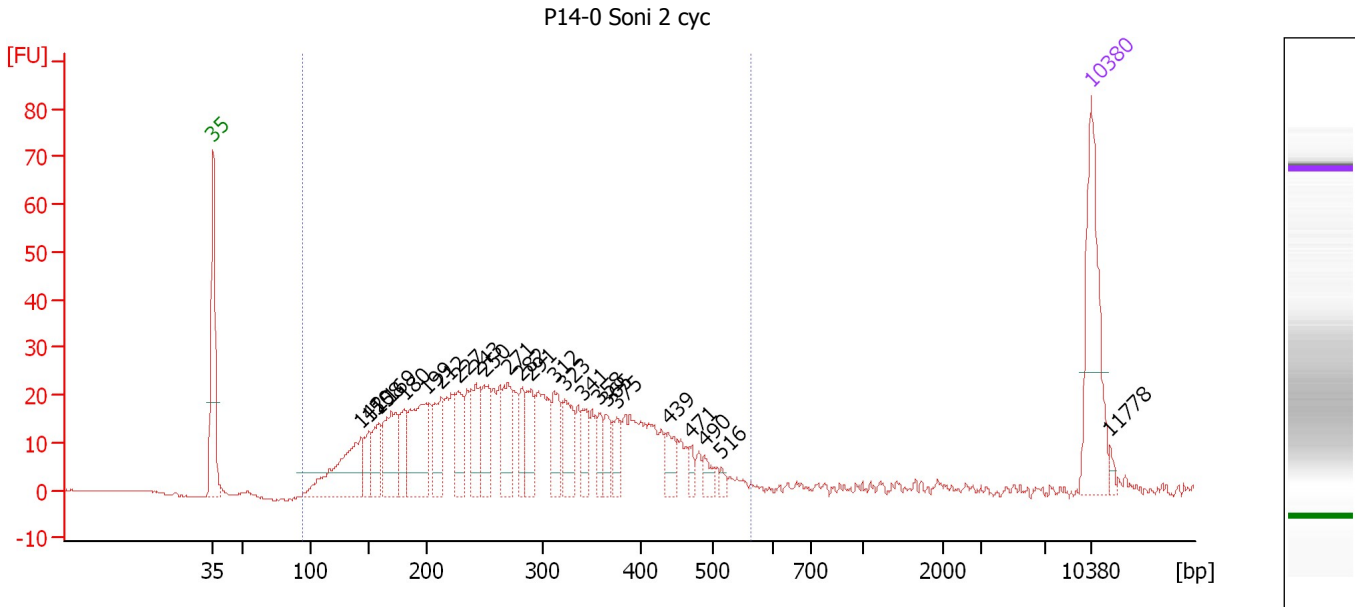
Peak table for Ladder

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	45.31	50	150.00	4,545.5	Ladder Peak
3	50.82	100	150.00	2,272.7	Ladder Peak
4	55.45	150	150.00	1,515.2	Ladder Peak
5	60.08	200	150.00	1,136.4	Ladder Peak
6	69.21	300	150.00	757.6	Ladder Peak
7	77.16	400	150.00	568.2	Ladder Peak
8	82.80	500	150.00	454.5	Ladder Peak
9	87.59	600	150.00	378.8	Ladder Peak
10	90.75	700	150.00	324.7	Ladder Peak
11	94.78	1,000	150.00	227.3	Ladder Peak
12	101.14	2,000	150.00	113.6	Ladder Peak
13	104.29	3,000	150.00	75.8	Ladder Peak
14	109.30	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\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : P14-0 Soni 2 cyc

Number of peaks found: 24 Corr. Area 1: 760.1
 Noise: 0.2

Peak table for sample 1 : P14-0 Soni 2 cyc

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	54.74	142	96.73	1,030.1	
3	55.46	150	22.82	230.3	
4	56.23	158	36.51	349.3	
5	57.20	169	63.20	566.9	
6	58.27	180	34.57	290.3	
7	59.97	199	87.59	667.5	
8	61.16	212	41.41	296.2	
9	62.52	227	41.11	274.7	
10	64.01	243	41.31	257.5	
11	64.60	250	47.64	289.2	
12	66.56	271	41.25	230.6	
13	67.58	282	26.17	140.5	
14	68.35	291	33.34	173.9	
15	70.17	312	35.17	170.7	
16	71.07	323	39.60	185.5	
17	72.47	341	19.82	88.1	
18	73.83	358	16.56	70.1	
19	74.34	365	16.27	67.6	
20	75.19	375	16.29	65.8	
21	79.36	439	19.21	66.3	
22	81.15	471	7.92	25.5	
23	82.21	490	10.41	32.2	
24	83.57	516	4.35	12.8	
25	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad


Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : P14-0 Soni 2 cyc

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	114.53	11,778	0.00	0.0	

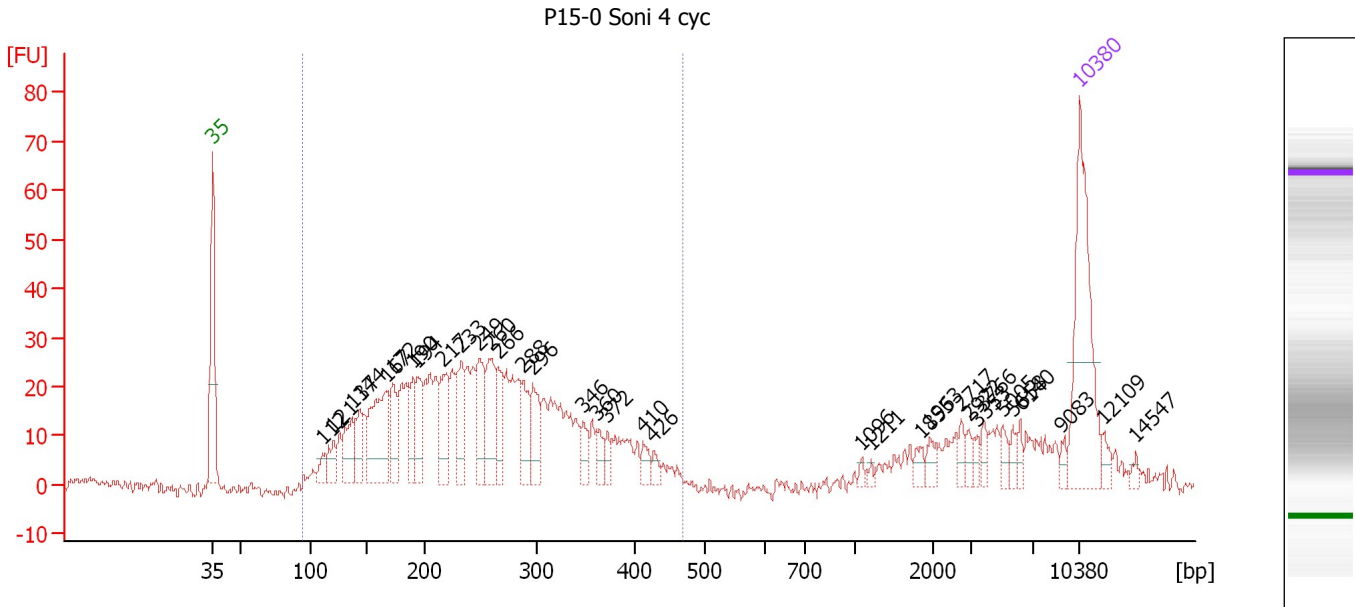
Region table for sample 1 : P14-0 Soni 2 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
94	566	285	6,803.2	1,062.38	 760.1	99	33.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : P15-0 Soni 4 cyc

Number of peaks found: 34 Corr. Area 1: 741.3
 Noise: 1.2

Peak table for sample 2 : P15-0 Soni 4 cyc

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	51.91	112	10.96	148.6	
3	52.73	121	19.05	239.3	
4	54.24	137	34.35	380.3	
5	54.88	144	24.92	262.5	
6	56.99	167	80.55	732.4	
7	57.51	172	33.21	292.1	
8	59.19	190	29.05	231.3	
9	59.53	194	33.91	264.7	
10	61.64	217	41.40	288.9	
11	63.10	233	36.33	236.1	
12	64.53	249	40.59	247.3	
13	65.52	260	42.11	245.8	
14	66.12	266	28.70	163.4	
15	68.10	288	26.34	138.6	
16	68.87	296	30.22	154.5	
17	72.88	346	15.10	66.1	
18	74.00	360	11.14	46.8	
19	74.90	372	8.62	35.1	
20	77.74	410	9.48	35.0	
21	78.60	426	5.59	19.9	
22	95.39	1,096	2.41	3.3	
23	96.12	1,211	1.97	2.5	
24	100.21	1,855	5.64	4.6	
25	100.90	1,963	7.51	5.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : P15-0 Soni 4 cyc

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	103.40	2,717	6.21	3.5	
27	104.05	2,922	4.92	2.6	
28	104.73	3,353	4.85	2.2	
29	105.25	3,766	5.32	2.1	
30	106.80	5,005	6.09	1.8	
31	107.62	5,658	4.85	1.3	
32	108.22	6,140	5.37	1.3	
33	111.58	9,083	4.13	0.7	
34	113.00	10,380	75.00	10.9	Upper Marker
35	114.89	12,109	0.00	0.0	
36	117.56	14,547	0.00	0.0	

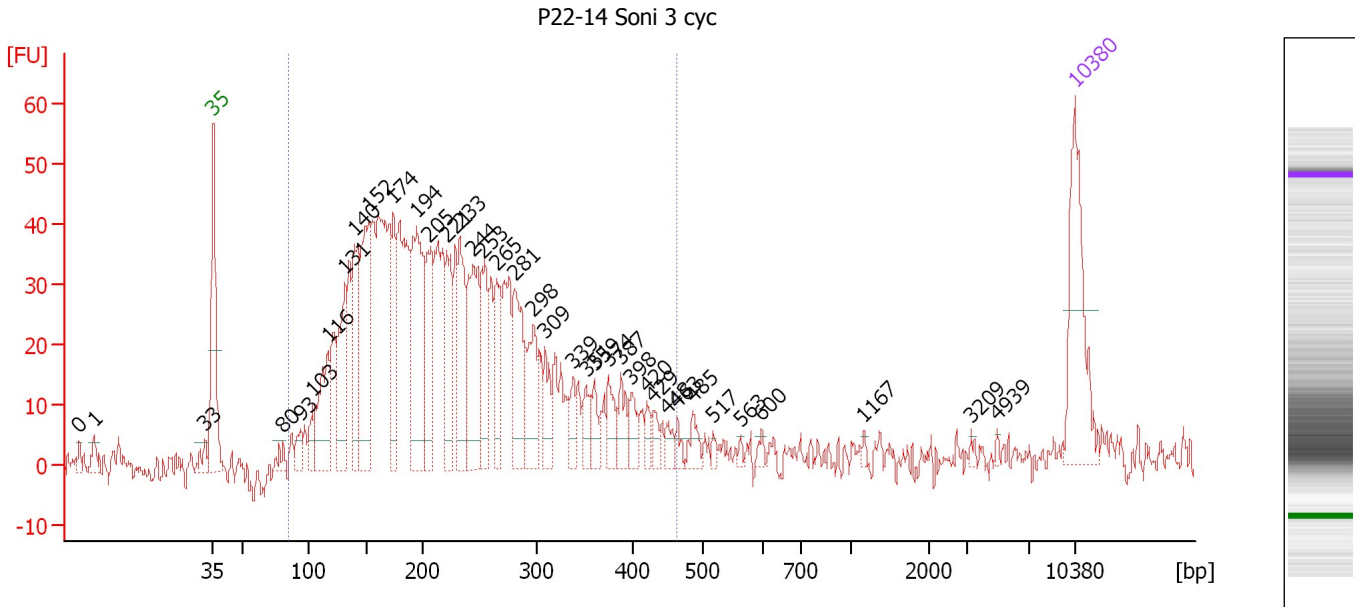
Region table for sample 2 : P15-0 Soni 4 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
95	468	252	6,927.0	986.64	741.3	82	31.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : P22-14 Soni 3 cyc

Number of peaks found: 38 Corr. Area 1: 1,175.5
 Noise: 2.4

Peak table for sample 3 : P22-14 Soni 3 cyc

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32.13	0	0.00	0.0	
2	33.30	1	0.00	0.0	
3	42.31	33	0.00	0.0	
4	43.00	35	125.00	5,411.3	Lower Marker
5	48.67	80	12.58	236.8	
6	50.06	93	15.48	251.9	
7	51.06	103	21.85	322.9	
8	52.31	116	84.00	1,096.4	
9	53.70	131	84.86	981.0	
10	54.52	140	91.08	986.1	
11	55.61	152	148.83	1,486.9	
12	57.64	174	83.70	730.3	
13	59.50	194	156.02	1,219.9	
14	60.50	205	72.41	536.2	
15	61.97	221	66.43	456.0	
16	63.06	233	79.10	515.3	
17	64.14	244	105.13	651.6	
18	64.88	253	65.88	395.3	
19	66.04	265	49.10	280.4	
20	67.43	281	78.23	422.5	
21	68.99	298	55.28	281.4	
22	69.94	309	32.21	157.8	
23	72.28	339	20.17	90.2	
24	73.28	351	20.60	88.9	
25	73.93	359	19.62	82.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : P22-14 Soni 3 cyc

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	75.10	374	23.57	95.4	
27	76.14	387	22.33	87.4	
28	77.00	398	18.57	70.7	
29	78.26	420	10.89	39.3	
30	78.78	429	10.97	38.8	
31	79.86	448	9.98	33.8	
32	80.73	463	7.30	23.9	
33	81.94	485	14.05	43.9	
34	83.63	517	4.41	12.9	
35	85.84	563	3.19	8.6	
36	87.57	600	4.89	12.3	
37	95.85	1,167	3.26	4.2	
38	104.55	3,209	2.45	1.2	
39	106.72	4,939	1.96	0.6	
40	▶ 113.00	10,380	75.00	10.9	Upper Marker

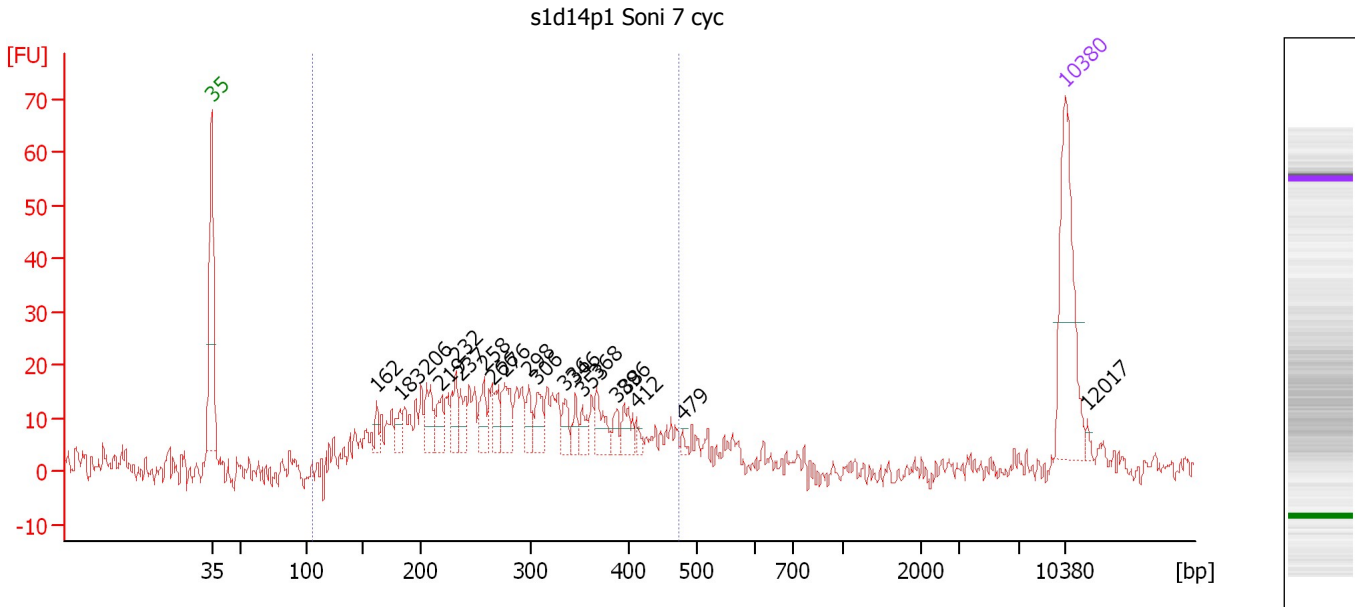
Region table for sample 3 : P22-14 Soni 3 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
85	463	229	17,725.2	2,244.34	■ 1,175.5	92	35.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : s1d14p1 Soni 7 cyc

Number of peaks found: 20 Corr. Area 1: 403.6
 Noise: 3.1

Peak table for sample 4 : s1d14p1 Soni 7 cyc


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	56.55	162	10.12	94.7	
3	58.52	183	13.02	107.7	
4	60.62	206	26.20	192.8	
5	61.80	219	19.90	137.8	
6	63.02	232	24.54	160.1	
7	63.42	237	15.80	101.2	
8	65.34	258	21.02	123.6	
9	66.13	266	18.20	103.6	
10	67.00	276	27.24	149.6	
11	69.01	298	13.86	70.5	
12	69.71	306	20.10	99.4	
13	72.03	336	13.81	62.3	
14	72.86	346	9.89	43.3	
15	73.43	353	10.66	45.7	
16	74.61	368	20.08	82.7	
17	76.19	388	9.13	35.7	
18	76.84	396	14.43	55.2	
19	77.85	412	4.93	18.1	
20	81.61	479	3.03	9.6	
21	113.00	10,380	75.00	10.9	Upper Marker
22	114.79	12,017	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...

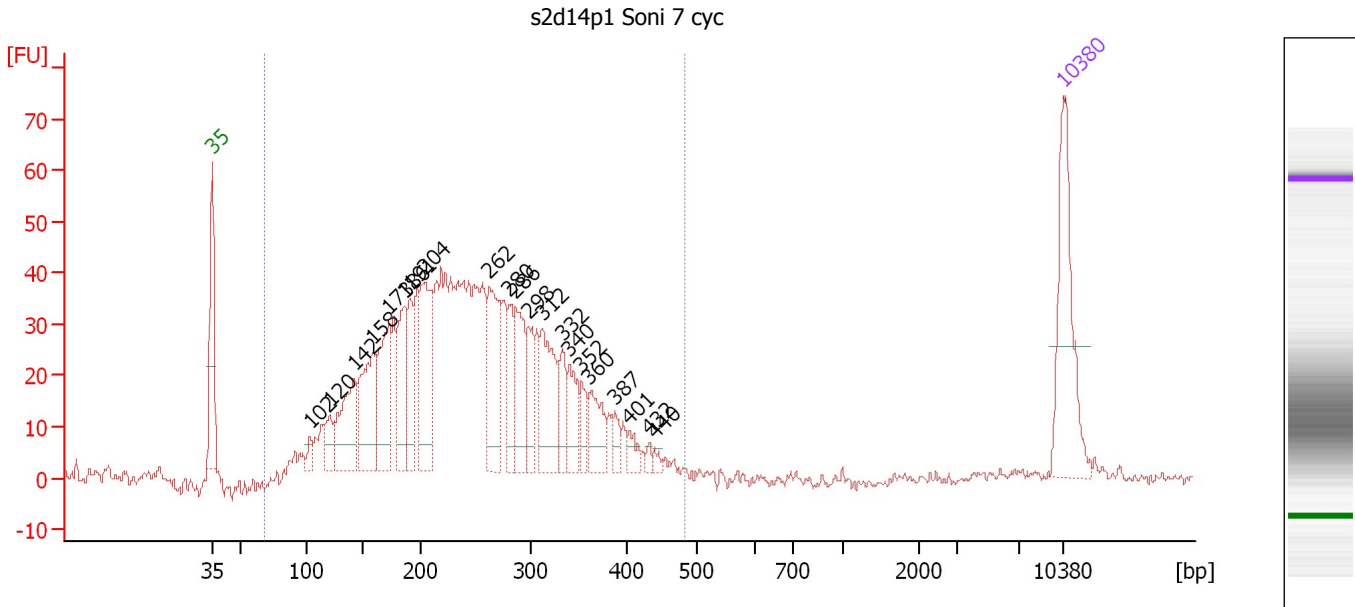
... Region table for sample 4 : s1d14p1 Soni 7 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
105	474	283	3,874.4	631.62	 403.6	89	28.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : s2d14p1 Soni 7 cyc

Number of peaks found: 21 Corr. Area 1: 1,155.3
 Noise: 1.0

Peak table for sample 5 : s2d14p1 Soni 7 cyc

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	51.02	102	10.76	159.6	
3	52.69	120	26.90	339.3	
4	54.70	142	82.44	880.2	
5	56.24	158	90.12	861.6	
6	57.55	173	86.57	759.5	
7	58.78	186	65.69	535.2	
8	59.26	191	49.59	393.0	
9	60.40	204	104.50	778.0	
10	65.75	262	92.60	535.3	
11	67.41	280	38.21	206.5	
12	67.94	286	60.39	319.8	
13	69.04	298	36.63	186.2	
14	70.18	312	73.09	354.8	
15	71.75	332	28.60	130.5	
16	72.37	340	34.38	153.3	
17	73.38	352	17.64	75.8	
18	73.99	360	34.57	145.4	
19	76.09	387	11.99	47.0	
20	77.23	401	10.99	41.5	
21	78.94	432	4.25	14.9	
22	79.42	440	4.16	14.3	
23	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
Modified: 3/19/2014 12:00:54 PM

Electropherogram Summary Continued ...

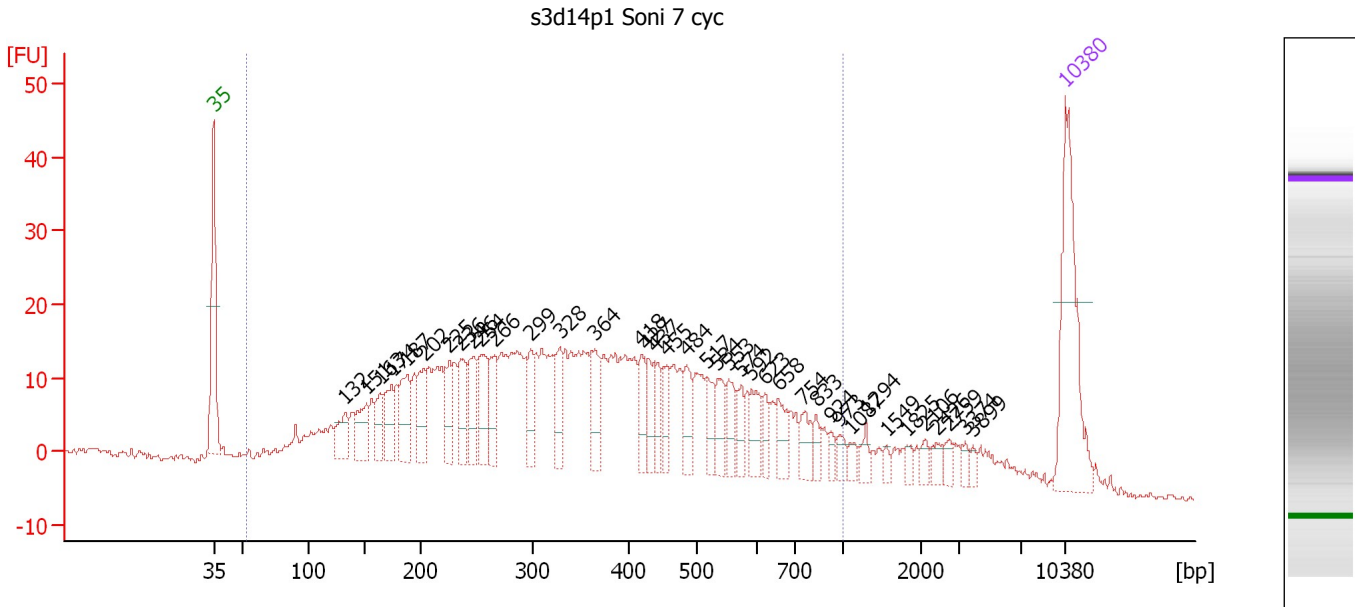
... Region table for sample 5 : s2d14p1 Soni 7 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
68	484	248	11,871.2	1,654.32	■ 1,155.3	97	31.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : s3d14p1 Soni 7 cyc

Number of peaks found: 39 Corr. Area 1: 797.9
 Noise: 0.4

Peak table for sample 6 : s3d14p1 Soni 7 cyc

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	53.83	132	26.57	304.0	
3	55.58	151	30.10	301.3	
4	56.68	163	22.65	210.2	
5	57.64	174	30.89	269.6	
6	58.91	187	39.64	320.5	
7	60.27	202	30.20	226.4	
8	62.37	225	24.97	168.1	
9	63.38	236	33.32	213.7	
10	64.26	246	31.33	193.1	
11	65.00	254	37.52	223.8	
12	66.10	266	28.61	163.0	
13	69.08	299	25.88	131.3	
14	71.45	328	24.86	114.8	
15	74.30	364	29.34	122.1	
16	78.15	418	21.41	77.7	
17	78.68	427	17.90	63.5	
18	79.25	437	17.50	60.7	
19	80.26	455	17.02	56.7	
20	81.88	484	22.36	70.0	
21	83.59	517	16.30	47.8	
22	84.42	534	20.14	57.2	
23	85.34	553	18.10	49.6	
24	86.35	574	14.66	38.7	
25	87.23	592	19.83	50.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...

... Peak table for sample 6 : s3d14p1 Soni 7 cyc

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	88.32	623	10.67	25.9	
27	89.42	658	16.84	38.8	
28	91.48	754	15.19	30.5	
29	92.53	833	8.31	15.1	
30	93.76	924	5.47	9.0	
31	94.42	973	7.48	11.6	
32	95.34	1,087	5.31	7.4	
33	96.65	1,294	7.04	8.2	
34	98.27	1,549	3.61	3.5	
35	100.03	1,825	4.58	3.8	
36	101.47	2,106	5.18	3.7	
37	102.48	2,426	6.26	3.9	
38	103.53	2,759	5.74	3.2	
39	104.76	3,374	5.00	2.2	
40	105.42	3,899	3.30	1.3	
41	113.00	10,380	75.00	10.9	Upper Marker

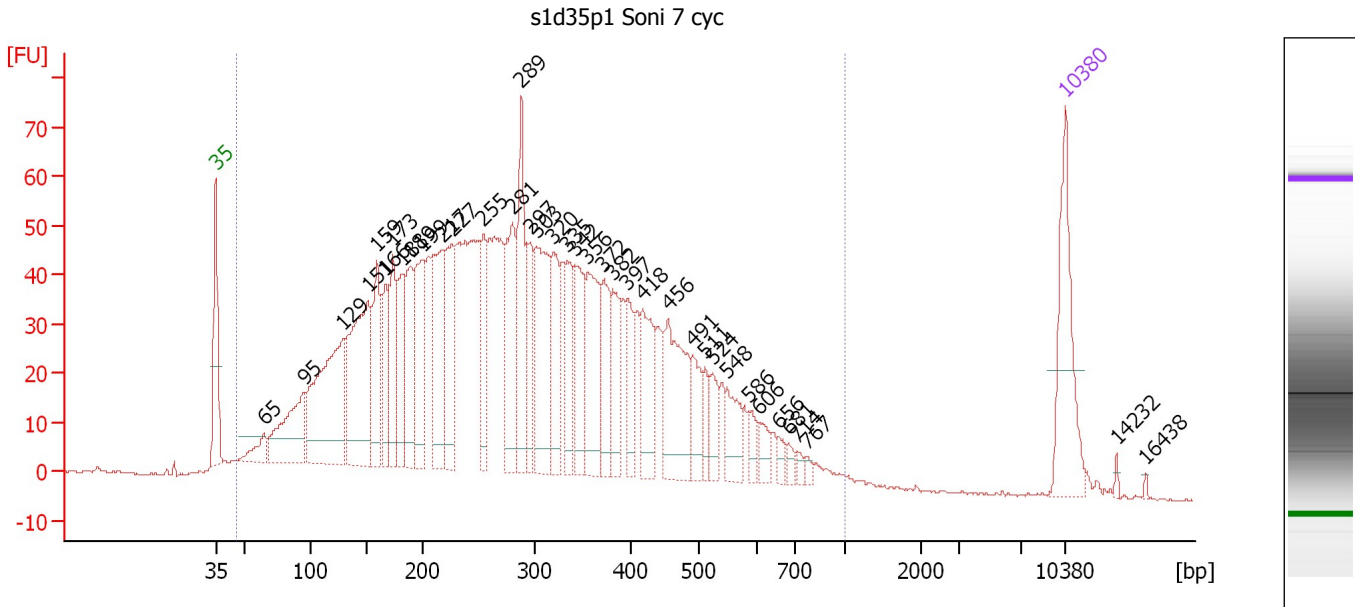
Region table for sample 6 : s3d14p1 Soni 7 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
53	1,000	381	8,315.8	1,424.75	797.9	90	47.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : s1d35p1 Soni 7 cyc

Number of peaks found: 38 Corr. Area 1: 2,317.5
 Noise: 0.2

Peak table for sample 7 : s1d35p1 Soni 7 cyc

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	46.95	65	25.33	591.5	
3	50.25	95	112.75	1,802.2	
4	53.50	129	225.18	2,646.2	
5	55.57	151	203.50	2,038.5	
6	56.27	159	91.19	869.8	
7	56.97	166	68.35	622.2	
8	57.59	173	72.73	636.6	
9	58.34	181	74.84	625.9	
10	59.04	189	80.68	647.6	
11	59.96	199	101.13	771.0	
12	61.68	217	116.36	810.6	
13	62.51	227	81.38	544.1	
14	65.06	255	64.19	382.1	
15	67.43	281	108.60	586.5	
16	68.18	289	102.44	537.5	
17	68.93	297	56.70	289.3	
18	69.41	303	125.94	630.7	
19	70.77	320	74.64	353.8	
20	71.96	335	62.76	284.2	
21	72.57	342	70.57	312.4	
22	73.63	356	95.57	407.2	
23	74.95	372	58.18	236.9	
24	75.74	382	45.65	181.0	
25	76.92	397	41.91	159.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...

... Peak table for sample 7 : s1d35p1 Soni 7 cyc

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	78.20	418	64.00	231.8	
27	80.31	456	98.37	327.0	
28	82.28	491	37.72	116.4	
29	83.34	511	19.27	57.1	
30	83.95	524	25.91	74.9	
31	85.10	548	34.41	95.1	
32	86.94	586	13.88	35.9	
33	87.78	606	15.53	38.8	
34	89.36	656	9.00	20.8	
35	90.15	681	7.59	16.9	
36	90.94	714	4.80	10.2	
37	91.64	767	4.11	8.1	
38	113.00	10,380	75.00	10.9	Upper Marker
39	117.22	14,232	0.00	0.0	
40	119.64	16,438	0.00	0.0	

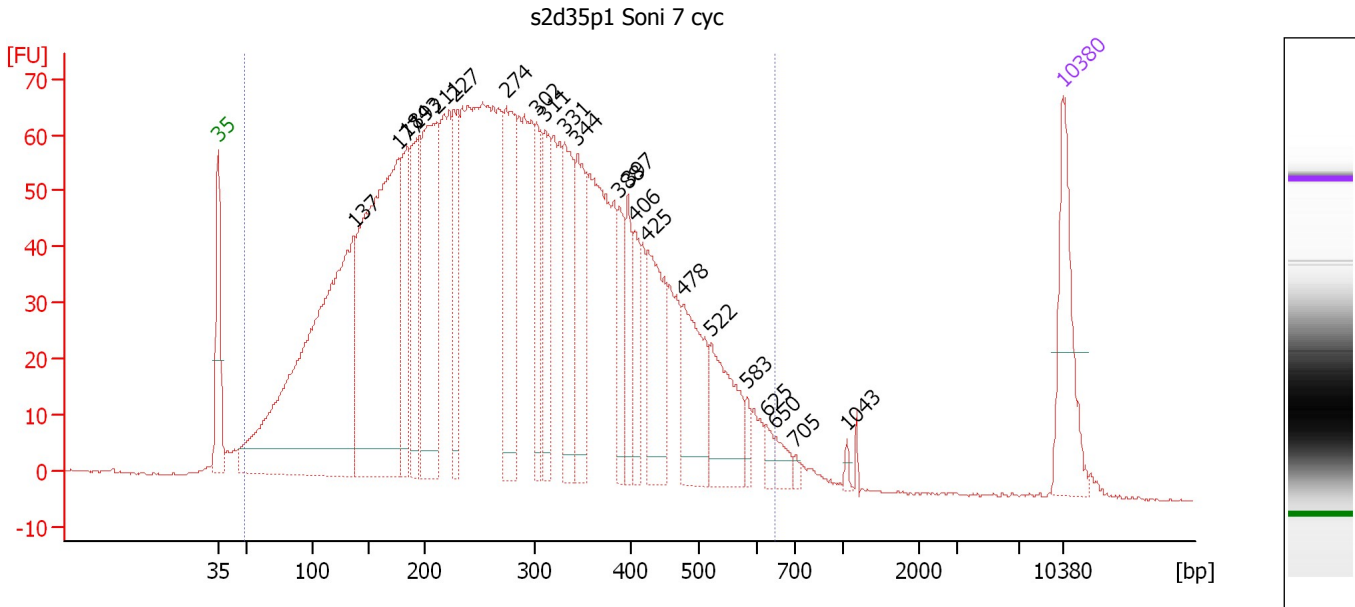
Region table for sample 7 : s1d35p1 Soni 7 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
46	1,000	305	25,295.4	3,444.07	2,317.5	99	47.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : s2d35p1 Soni 7 cyc

Number of peaks found: 22 Corr. Area 1: 2,976.8
 Noise: 0.3

Peak table for sample 8 : s2d35p1 Soni 7 cyc


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	54.22	137	712.64	7,896.4	
3	57.94	177	565.71	4,846.7	
4	58.60	184	121.72	1,002.2	
5	59.44	193	136.76	1,073.2	
6	61.12	211	248.51	1,781.2	
7	62.53	227	98.27	656.3	
8	66.86	274	174.70	964.9	
9	69.34	302	78.69	395.3	
10	70.05	311	87.00	424.5	
11	71.68	331	121.02	553.8	
12	72.74	344	112.53	495.0	
13	76.23	388	53.07	207.1	
14	76.94	397	51.62	196.9	
15	77.47	406	47.03	175.7	
16	78.57	425	115.84	412.9	
17	81.54	478	105.05	333.2	
18	83.83	522	91.87	266.8	
19	86.79	583	12.07	31.3	
20	88.39	625	11.22	27.2	
21	89.18	650	15.91	37.1	
22	90.82	705	4.15	8.9	
23	95.06	1,043	3.98	5.8	
24	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...

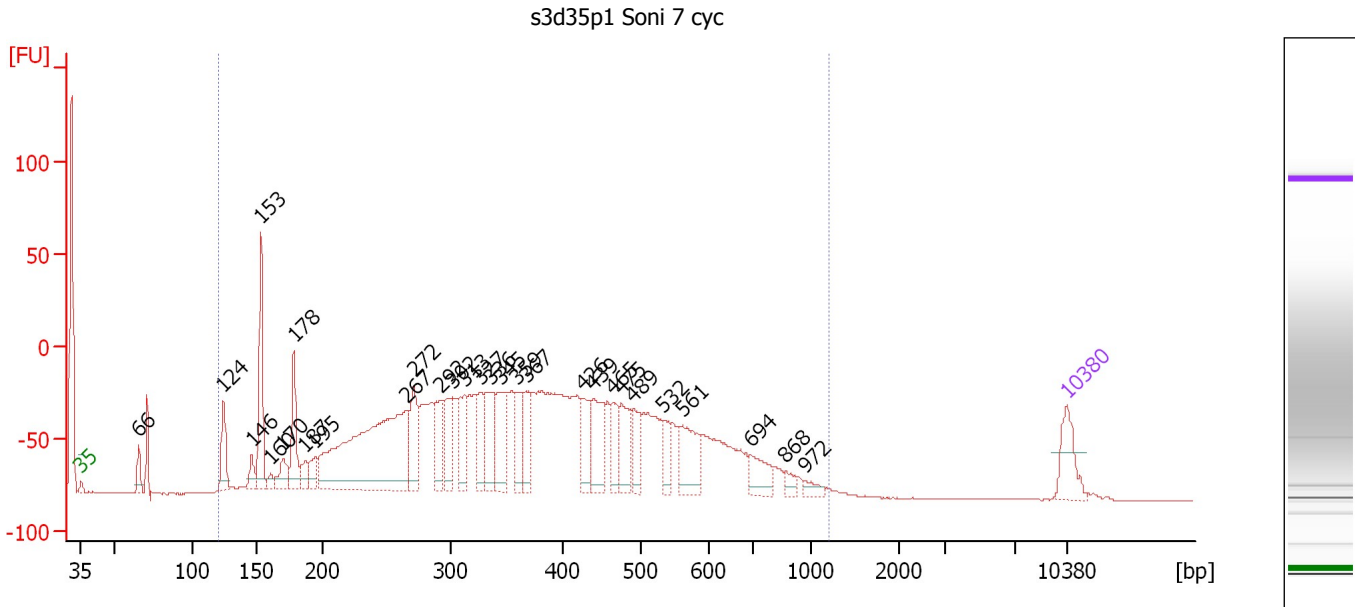
... Region table for sample 8 : s2d35p1_Soni 7_cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
49	650	285	34,944.0	4,607.70	 2,976.8	98	43.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : s3d35p1 Soni 7 cyc

Number of peaks found: 29 Corr. Area 1: 2,888.5
 Noise: 0.2

Peak table for sample 9 : s3d35p1 Soni 7 cyc

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	47.08	66	58.74	1,347.7	
3	53.09	124	121.52	1,479.0	
4	55.10	146	47.25	489.8	
5	55.74	153	263.97	2,612.6	
6	56.42	160	22.03	208.0	
7	57.33	170	66.15	588.7	
8	58.08	178	159.36	1,353.4	
9	58.91	187	49.44	399.8	
10	59.59	195	52.62	409.4	
11	66.17	267	856.63	4,866.3	
12	66.62	272	151.74	846.2	
13	68.51	292	132.36	685.9	
14	69.34	302	125.65	631.0	
15	70.21	313	110.32	534.6	
16	71.35	327	95.71	443.6	
17	72.10	336	129.49	583.2	
18	72.82	345	155.32	681.3	
19	73.88	359	109.72	463.4	
20	74.56	367	100.66	415.2	
21	78.60	426	101.76	362.2	
22	79.36	439	142.08	490.3	
23	80.80	465	78.02	254.5	
24	81.36	475	104.48	333.5	
25	82.20	489	74.95	232.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...

... Peak table for sample 9 : s3d35p1 Soni 7 cyc

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	84.35	532	62.14	176.8	
27	85.71	561	130.67	353.0	
28	90.55	694	74.69	163.1	
29	93.01	868	20.90	36.5	
30	94.40	972	20.07	31.3	
31	113.00	10,380	75.00	10.9	Upper Marker

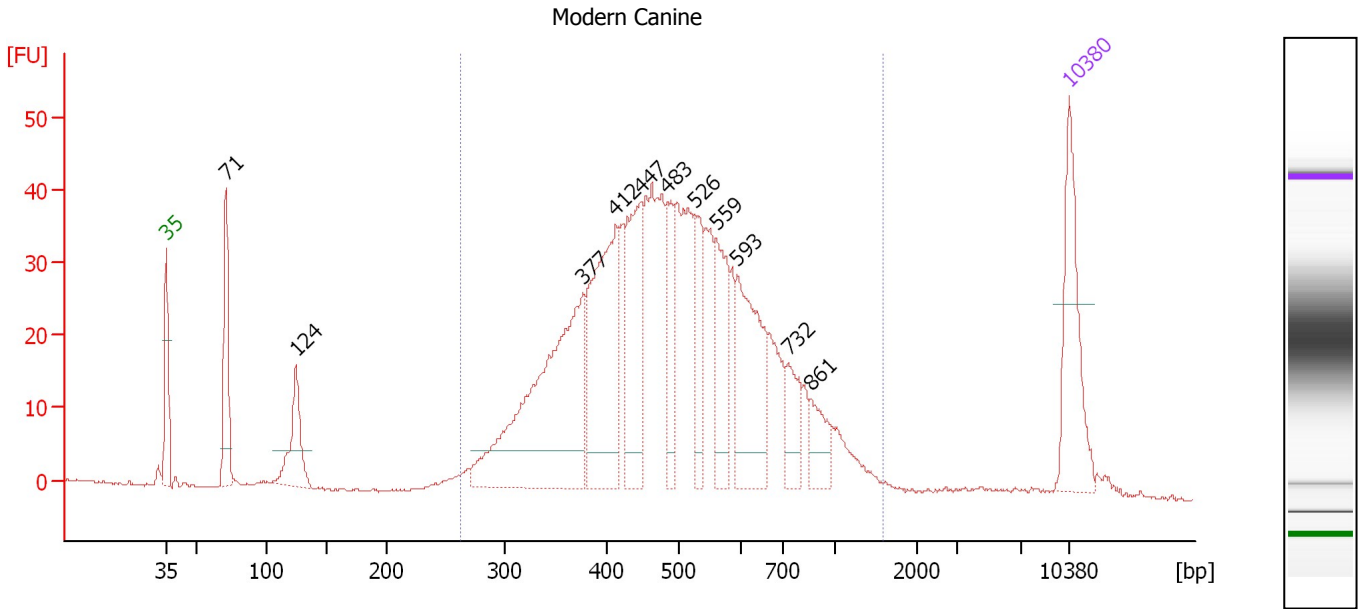
Region table for sample 9 : s3d35p1 Soni 7 cyc

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
121	1,195	390	29,917.8	5,725.06	2,888.5	97	42.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : Modern Canine

Number of peaks found: 11 Corr. Area 1: 966.1
 Noise: 0.2

Peak table for sample 10 : Modern Canine

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	47.63	71	101.49	2,165.9	
3	53.04	124	75.52	923.1	
4	75.31	377	295.70	1,189.0	
5	77.83	412	193.21	710.6	
6	79.82	447	127.10	430.6	
7	81.84	483	54.66	171.4	
8	84.03	526	51.91	149.6	
9	85.60	559	78.82	213.8	
10	87.26	593	117.82	301.0	
11	91.18	732	38.28	79.2	
12	92.92	861	31.70	55.8	
13	113.00	10,380	75.00	10.9	Upper Marker

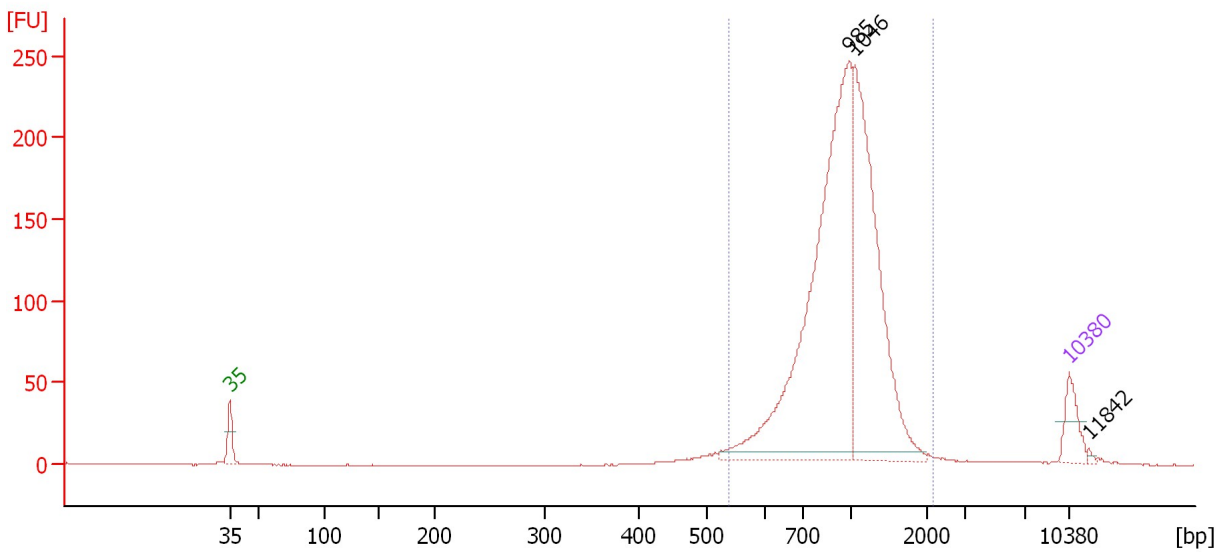
Region table for sample 10 : Modern Canine

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
262	1,584	520	5,183.6	1,575.66	966.1	91	34.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 :

Number of peaks found: 3 Corr. Area 1: 1,639.9
 Noise: 0.2

Peak table for sample 11 :

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	94.59	985	1,400.29	2,153.1	
3	95.08	1,046	892.65	1,292.9	
4	113.00	10,380	75.00	10.9	Upper Marker
5	114.60	11,842	0.00	0.0	

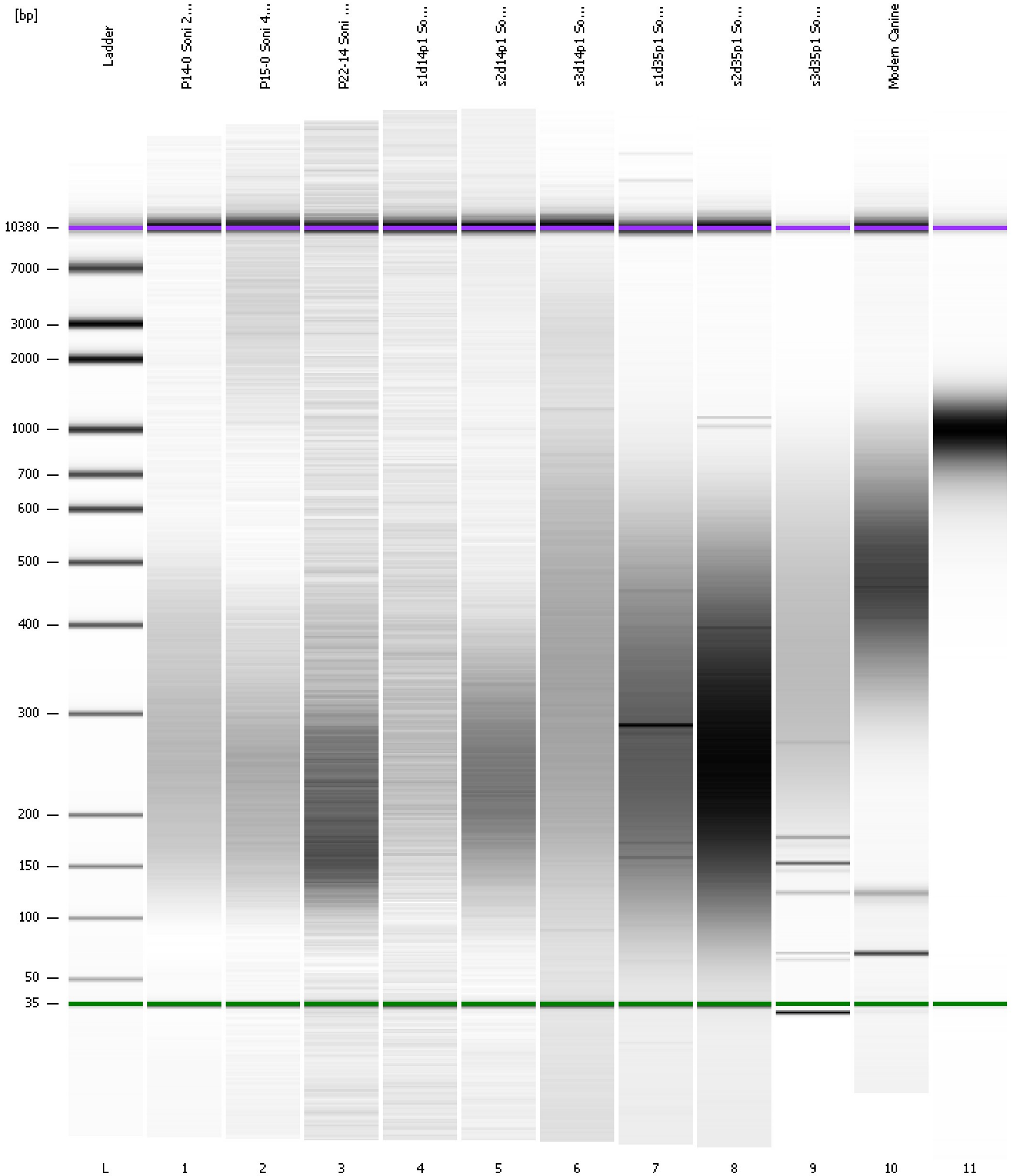
Region table for sample 11 :

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
538	2,143	1,005	3,974.2	2,443.19	1,639.9	96	26.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

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Modified: 3/19/2014 12:00:54 PM

Gel Image

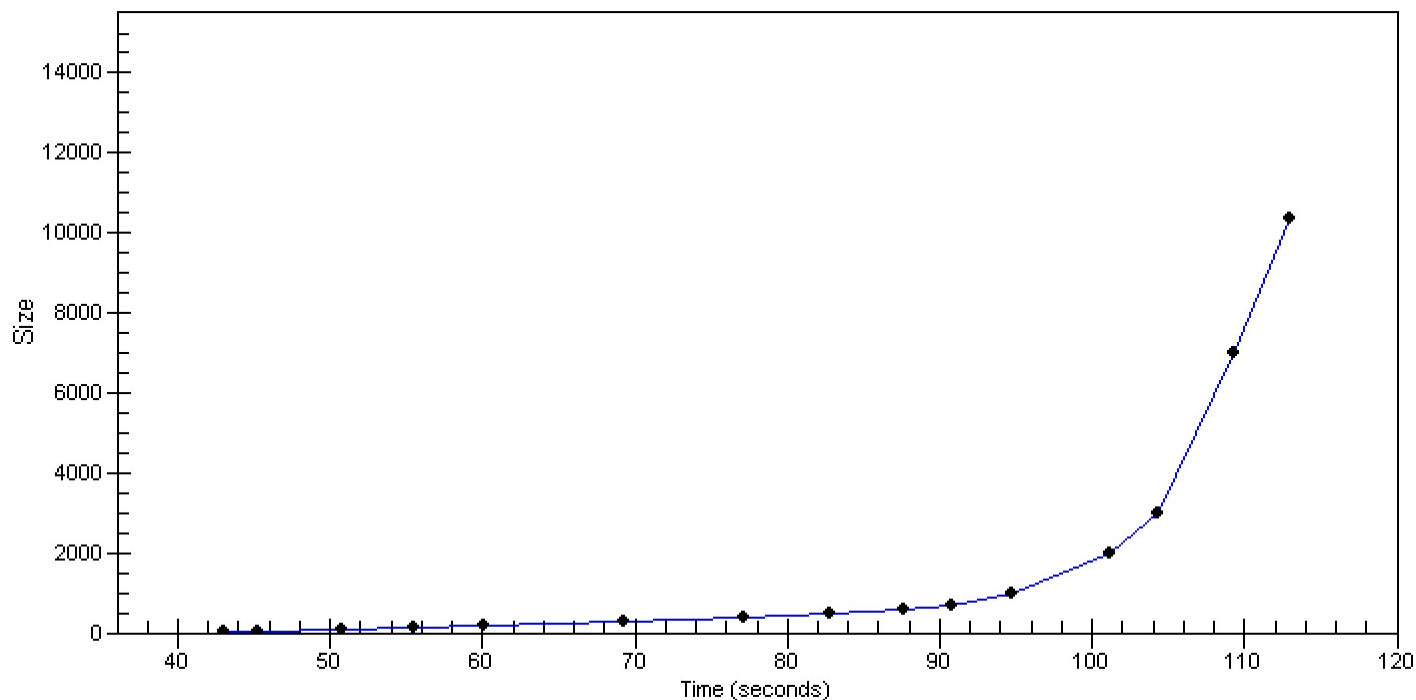


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
Modified: 3/19/2014 12:00:54 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad

Created: 3/19/2014 11:11:14 AM
 Modified: 3/19/2014 12:00:54 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/19/2014 11:52:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-19\2014-03-19_003.xad)		Instrument	Run		3/19/2014 11:11:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/19/2014 11:11:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/19/2014 11:11:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/19/2014 11:11:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/19/2014 11:11:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/19/2014 11:11:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/19/2014 11:11:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1