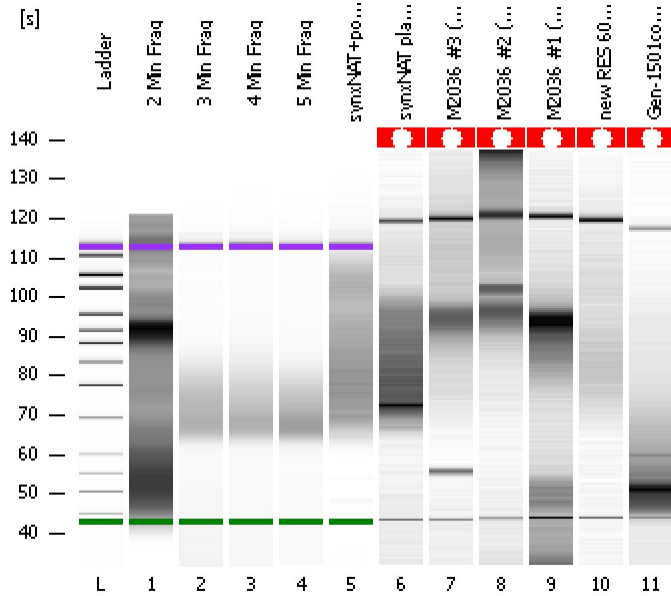


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

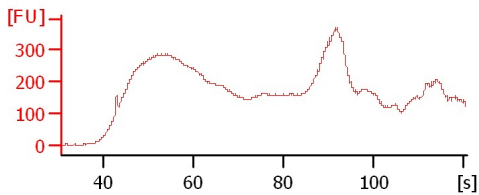
Assay Information:

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

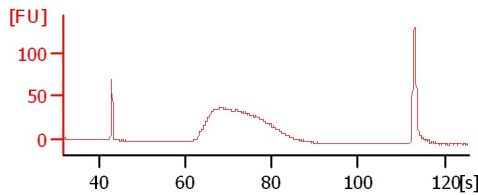
Chip Information:

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

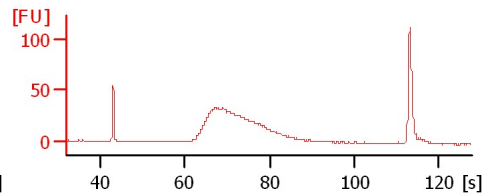
**2 Min Frag**



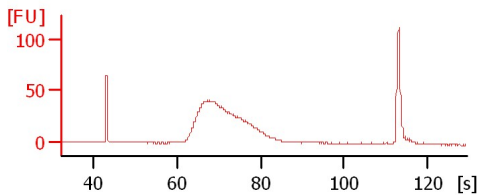
**3 Min Frag**



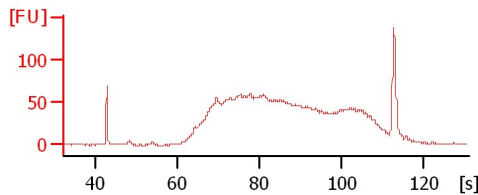
**4 Min Frag**



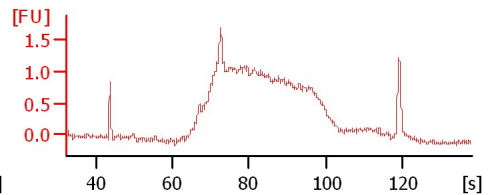
**5 Min Frag**



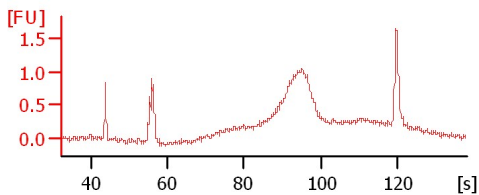
**synxNAT+pop10 (1:2)**



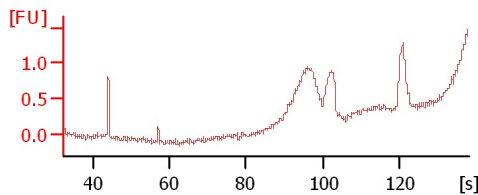
**synxNAT plate I (1:2)**



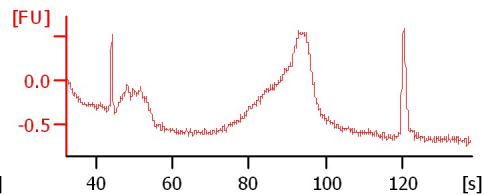
**M2036 #3 (1:2)**



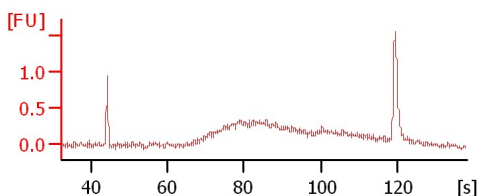
**M2036 #2 (1:2)**



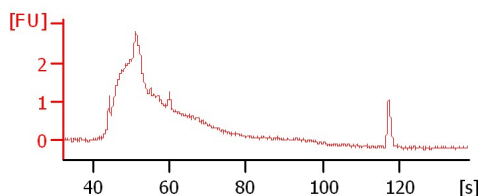
**M2036 #1 (1:2)**



**new RES 600 (1:2)**



**Gen-1501covaris**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
2 Min Frag		<input type="checkbox"/>	✓			
3 Min Frag		<input type="checkbox"/>	✓			
4 Min Frag		<input type="checkbox"/>	✓			
5 Min Frag		<input type="checkbox"/>	✓			
synxNAT+pop10 (1:2)		<input type="checkbox"/>	✓			
synxNAT plate I (1:2)		<input type="checkbox"/>	✓			
M2036 #3 (1:2)		<input type="checkbox"/>	✓			
M2036 #2 (1:2)		<input type="checkbox"/>	✓			
M2036 #1 (1:2)		<input type="checkbox"/>	✓			
new RES 600 (1:2)		<input type="checkbox"/>	✓			
Gen-1501covaris		<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\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**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

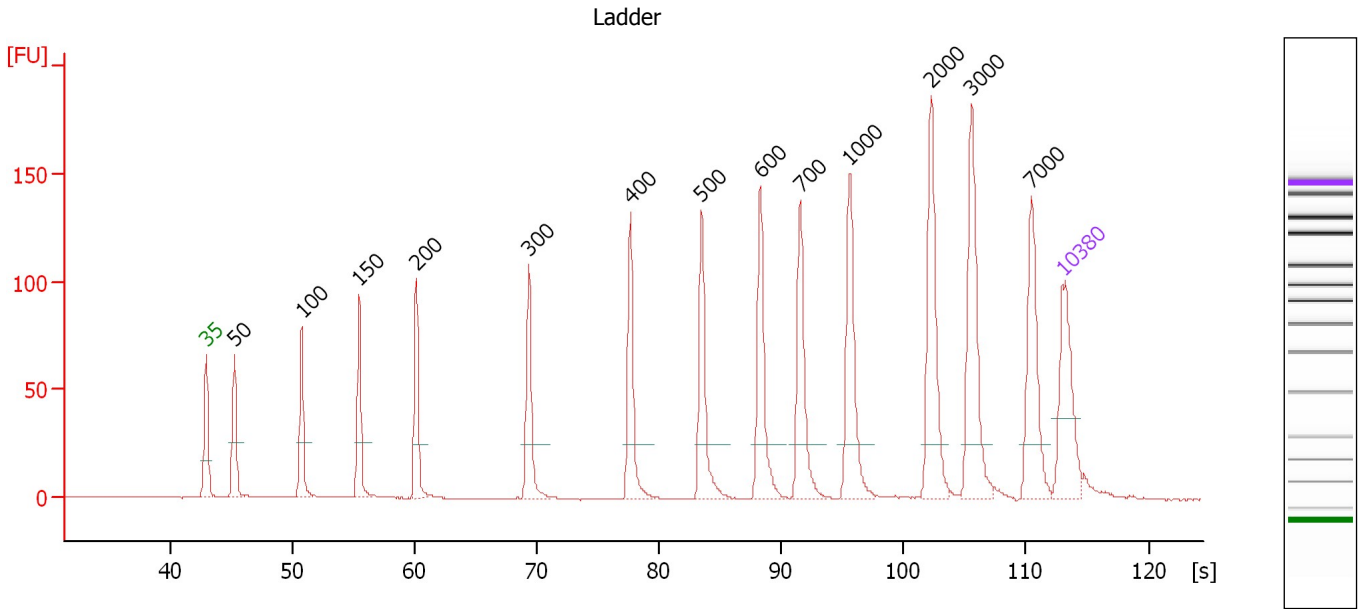
**Ladder**

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\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

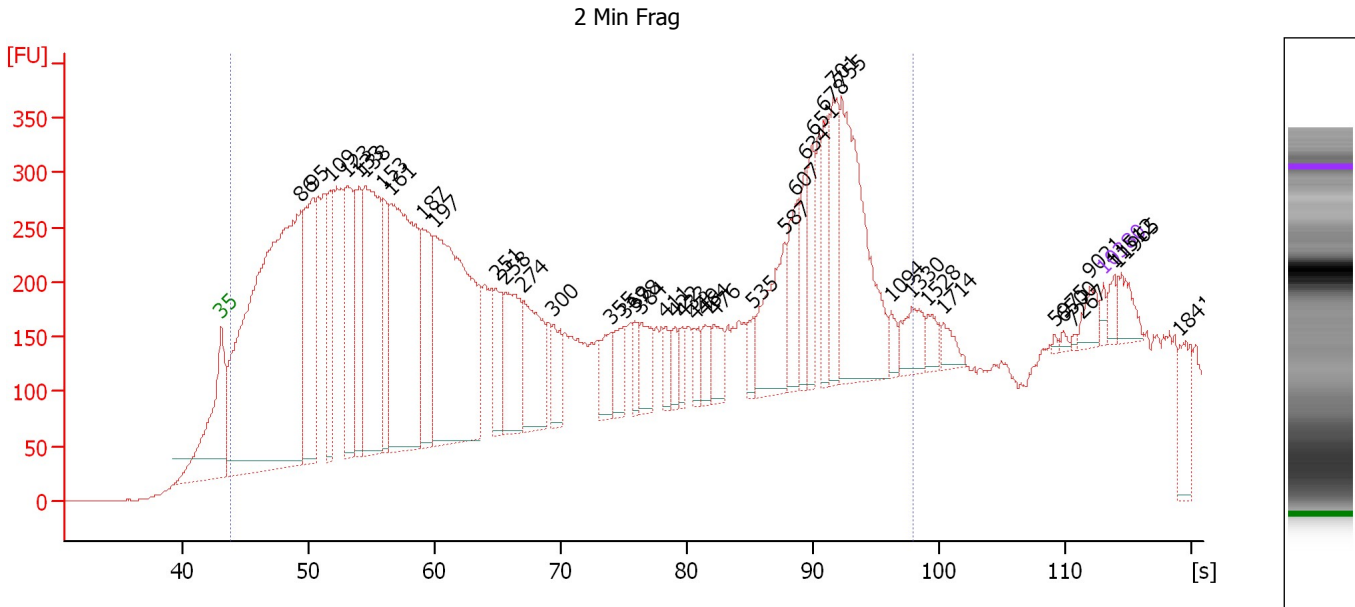
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 2 Min Frag**

Number of peaks found: 43                      Corr. Area 1: 13,617.6  
 Noise: 0.9

**Peak table for sample 1 : 2 Min Frag**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	86	15,039.80	265,227.7	
3	95	3,287.54	52,513.8	
4	109	1,775.94	24,797.2	
5	123	2,874.86	35,402.4	
6	133	1,634.20	18,550.2	
7	138	4,354.61	47,648.0	
8	153	1,439.12	14,206.7	
9	161	5,731.05	53,996.5	
10	187	1,851.50	15,007.1	
11	197	6,205.14	47,721.6	
12	251	760.41	4,596.8	
13	258	1,510.43	8,868.8	
14	274	1,647.10	9,115.7	
15	300	620.37	3,136.6	
16	355	549.88	2,346.0	
17	369	519.27	2,135.0	
18	378	311.71	1,250.2	
19	384	538.80	2,123.5	
20	411	240.97	888.9	
21	422	250.95	900.1	
22	433	251.03	879.1	
23	449	286.69	966.4	
24	464	321.99	1,051.3	
25	476	405.87	1,290.6	
26	535	264.82	749.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad


Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : 2 Min Frag**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	587	1,199.87	3,096.2	
28	607	761.17	1,898.9	
29	634	526.03	1,257.9	
30	651	636.77	1,482.8	
31	678	767.23	1,714.0	
32	701	920.12	1,987.9	
33	755	2,754.90	5,527.5	
34	1,094	167.42	231.9	
35	1,330	425.58	484.7	
36	1,528	190.61	188.9	
37	1,714	174.62	154.4	
38	5,975	23.69	6.0	
39	6,500	35.29	8.2	
40	7,267	23.91	5.0	
41	9,021	207.63	34.9	
42	10,380	75.00	10.9	Upper Marker
43	11,512	0.00	0.0	
44	11,965	0.00	0.0	
45	18,418	0.00	0.0	

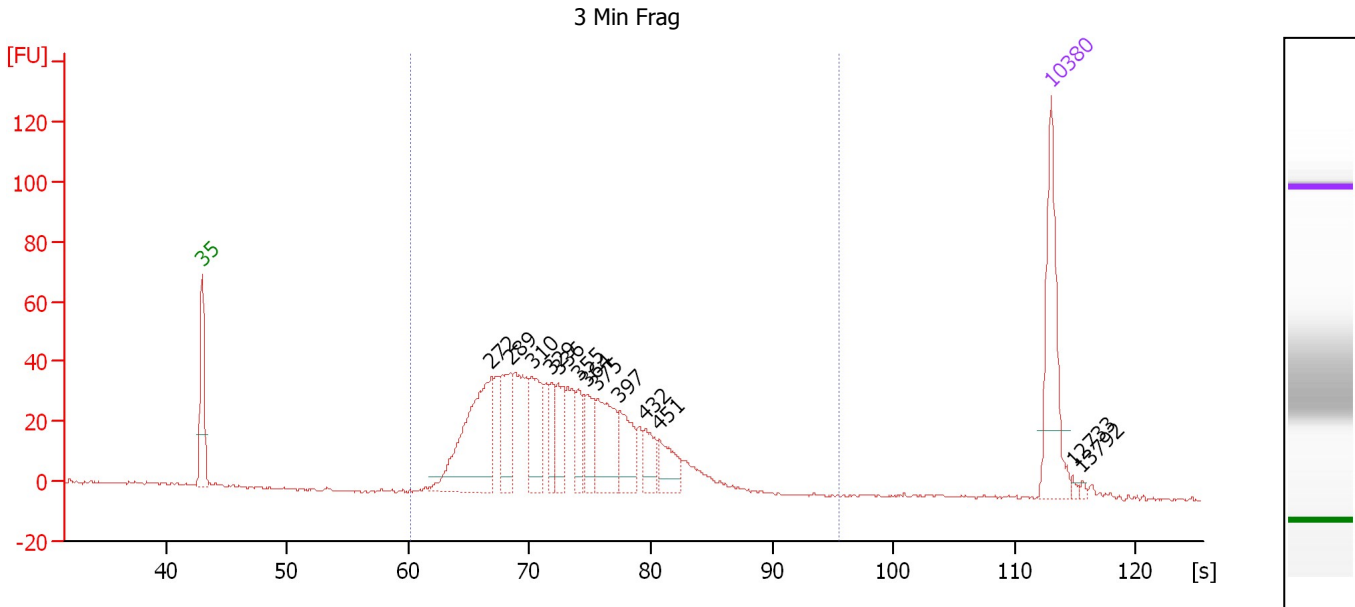
**Region table for sample 1 : 2 Min Frag**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
43.67	97.92	334	840,996.0	73,671.22	13,617.6 95	79.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3 Min Frag**

Number of peaks found: 13      Corr. Area 1: 830.2  
 Noise: 0.4

**Peak table for sample 2 : 3 Min Frag**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	272	167.17	929.7	
3	289	59.42	311.3	
4	310	63.71	311.4	
5	329	29.36	135.2	
6	336	41.33	186.6	
7	355	29.44	125.5	
8	364	34.78	144.8	
9	375	70.53	284.9	
10	397	44.63	170.3	
11	432	25.07	87.9	
12	451	31.27	105.0	
13	10,380	75.00	10.9	Upper Marker
14	12,733	0.00	0.0	
15	13,792	0.00	0.0	

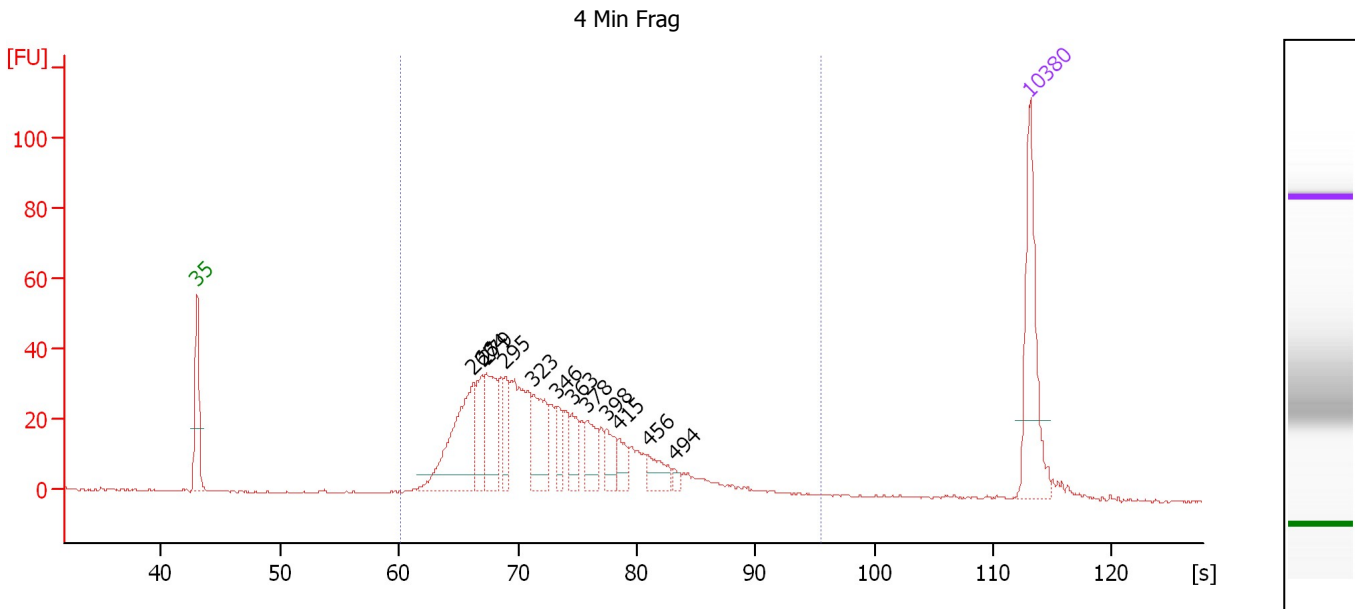
**Region table for sample 2 : 3 Min Frag**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
60.16	95.58	344	3,746.7	804.07	830.2 98	20.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 4 Min Frag**

Number of peaks found: 12                      Corr. Area 1: 682.1  
 Noise: 0.4

**Peak table for sample 3 : 4 Min Frag**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	127.78	726.9	
3	274	41.92	231.6	
4	279	69.22	376.5	
5	295	32.71	167.8	
6	323	61.37	287.8	
7	346	21.23	92.8	
8	363	25.39	106.0	
9	378	29.22	117.1	
10	398	22.81	86.9	
11	415	17.39	63.6	
12	456	21.73	72.2	
13	494	5.55	17.0	
14	10,380	75.00	10.9	Upper Marker

**Region table for sample 3 : 4 Min Frag**

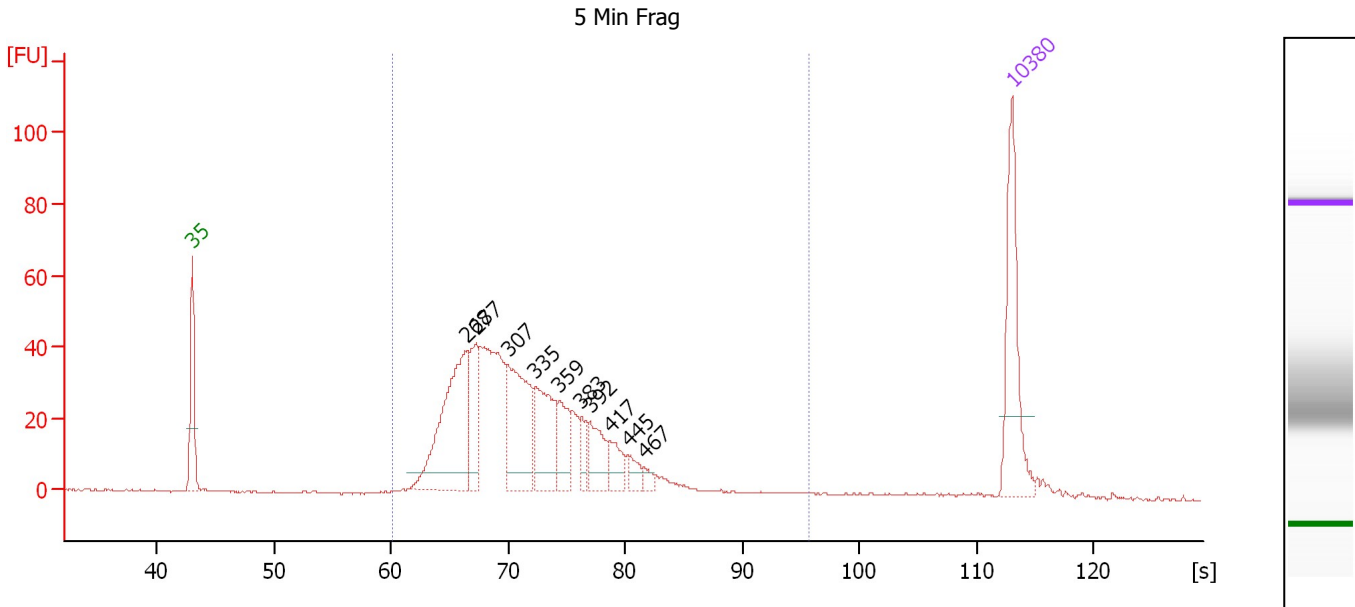
From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
60.16	95.58	350	3,522.9	750.34	682.1	97	27.3	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 5 Min Frag**

Number of peaks found: 10      Corr. Area 1: 759.3  
 Noise: 0.3

**Peak table for sample 4 : 5 Min Frag**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	268	171.88	971.8	
3	277	61.20	334.8	
4	307	119.33	589.0	
5	335	80.73	365.5	
6	359	38.85	163.7	
7	383	15.96	63.2	
8	392	35.12	135.9	
9	417	21.55	78.3	
10	445	13.15	44.8	
11	467	6.37	20.6	
12	10,380	75.00	10.9	Upper Marker

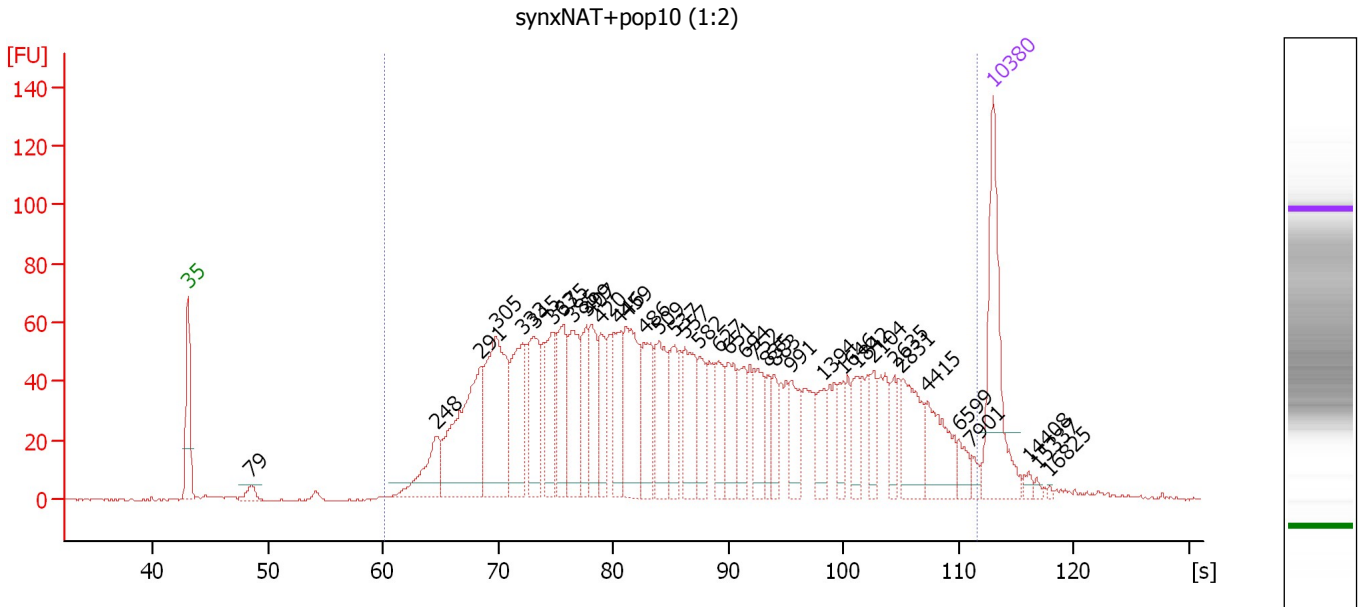
**Region table for sample 4 : 5 Min Frag**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
60.16	95.58	335	3,970.0	820.15	759.3 96	26.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : synxNAT+pop10 (1:2)**

Number of peaks found: 38                      Corr. Area 1: 2,504.2  
 Noise: 0.2

**Peak table for sample 5 : synxNAT+pop10 (1:2)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	11.26	216.0	
3	248	49.86	304.3	
4	291	141.70	738.4	
5	305	141.21	701.6	
6	333	80.53	367.0	
7	345	66.96	294.2	
8	363	46.45	193.6	
9	375	60.80	245.5	
10	385	63.36	249.1	
11	399	38.96	147.8	
12	407	46.82	174.2	
13	420	37.23	134.3	
14	446	44.58	151.3	
15	459	82.54	272.3	
16	486	49.18	153.4	
17	509	55.77	166.1	
18	537	36.55	103.1	
19	557	53.58	145.9	
20	582	29.97	78.0	
21	627	28.41	68.7	
22	651	37.87	88.1	
23	694	29.14	63.6	
24	752	32.14	64.8	
25	835	18.25	33.1	
26	883	17.48	30.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad


Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : synxNAT+pop10 (1:2)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	991	28.33	43.3	
28	1,394	20.93	22.7	
29	1,646	15.00	13.8	
30	1,842	18.30	15.1	
31	2,104	16.16	11.6	
32	2,635	13.10	7.5	
33	2,831	40.09	21.5	
34	4,415	38.19	13.1	
35	6,599	10.90	2.5	
36	7,901	5.52	1.1	
37	10,380	75.00	10.9	Upper Marker
38	14,408	0.00	0.0	
39	15,337	0.00	0.0	
40	16,825	0.00	0.0	

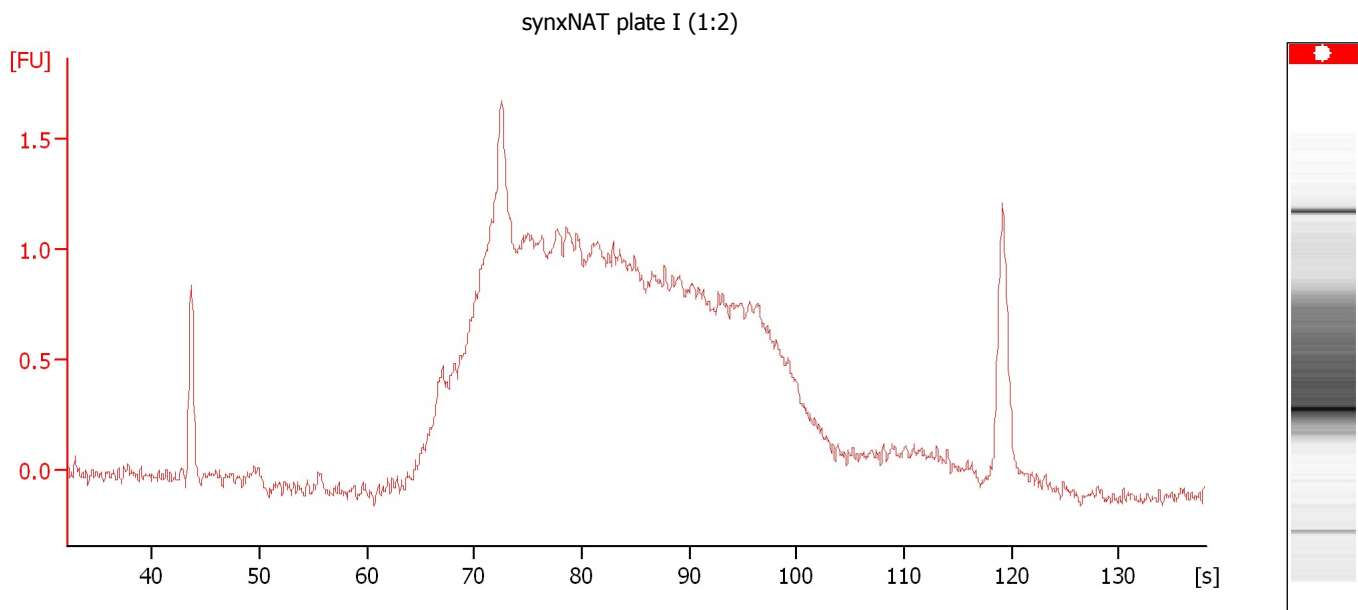
**Region table for sample 5 : synxNAT+pop10 (1:2)**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
60.16	111.56	1,078	5,806.4	1,790.29	2,504.2	98	100.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : synxNAT plate I (1:2)**

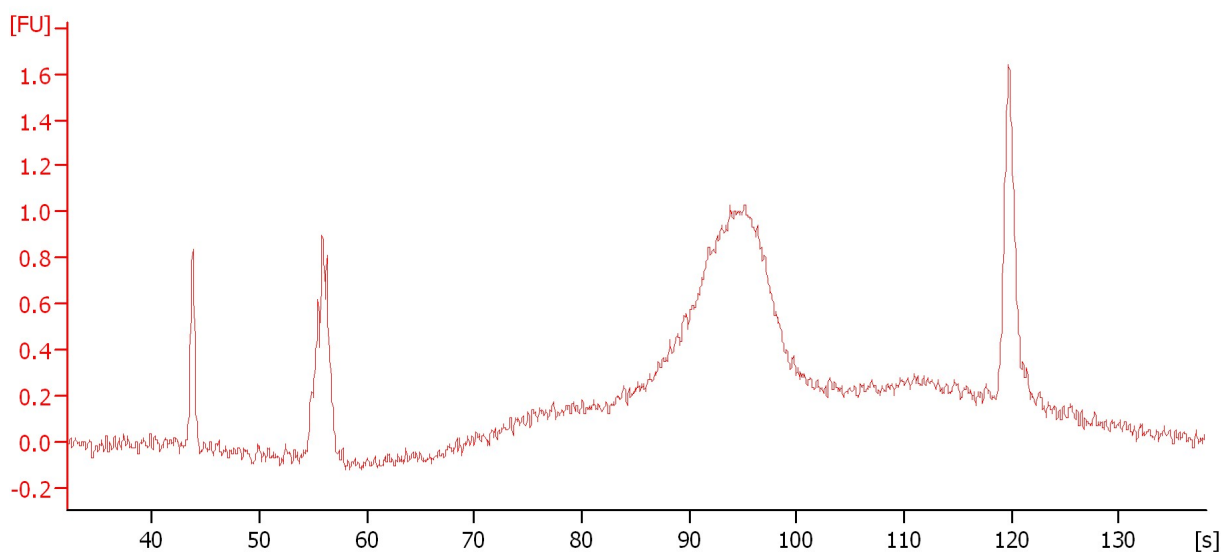
Noise: 0.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**

M2036 #3 (1:2)



**Overall Results for sample 7 : M2036 #3 (1:2)**

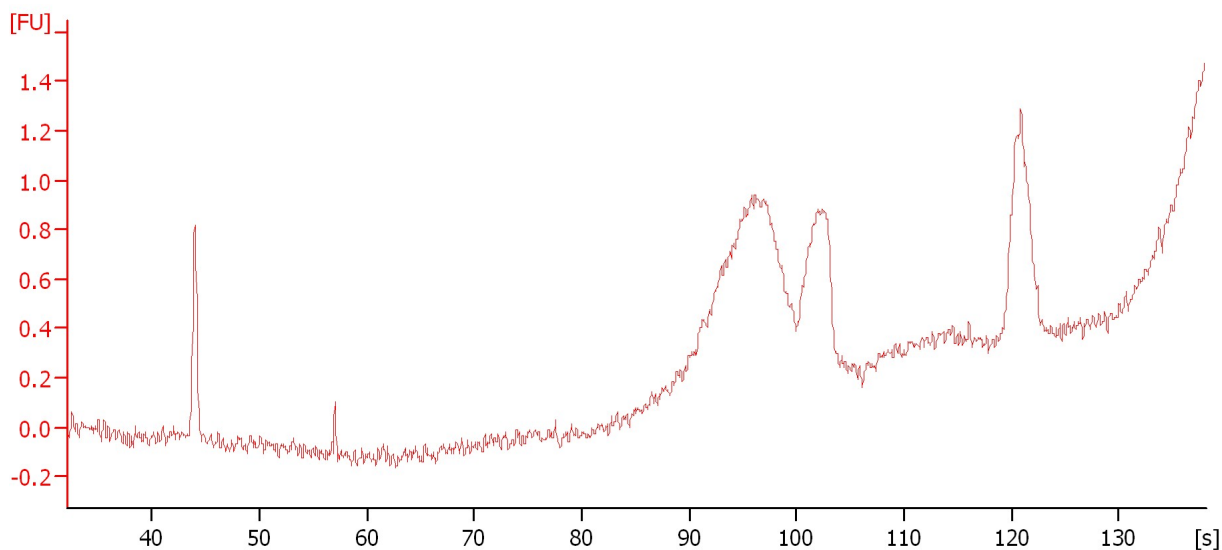
Noise: 0.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**

M2036 #2 (1:2)



**Overall Results for sample 8 : M2036 #2 (1:2)**

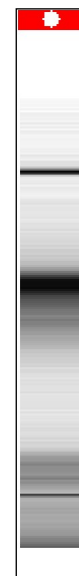
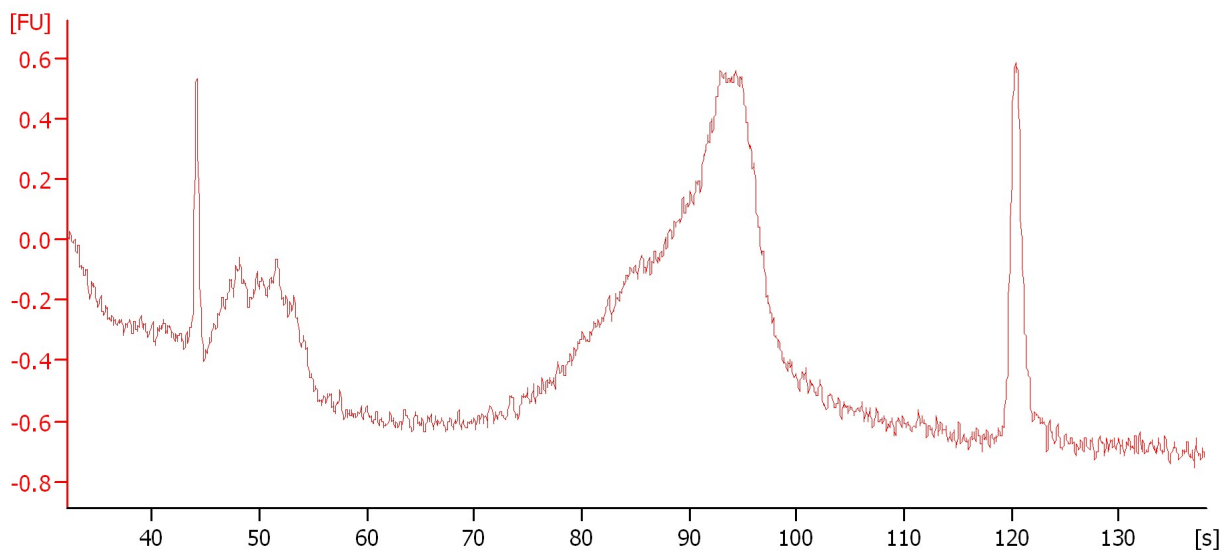
Noise: 0.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**

M2036 #1 (1:2)



**Overall Results for sample 9 : M2036 #1 (1:2)**

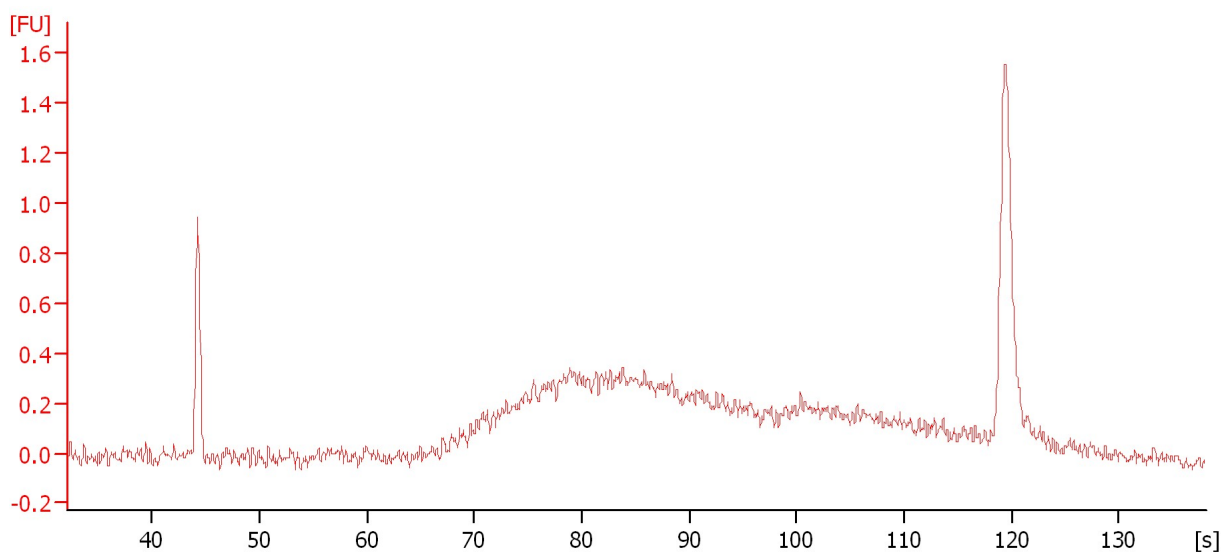
Noise: 0.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**

new RES 600 (1:2)



**Overall Results for sample 10 : new RES 600 (1:2)**

Noise: 0.0

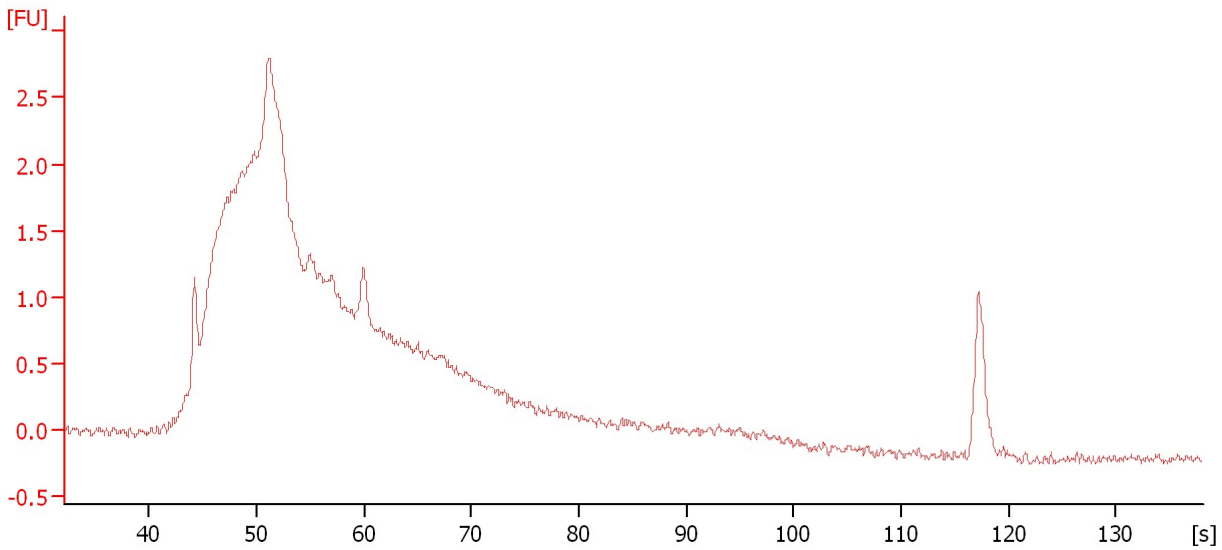


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Electropherogram Summary Continued ...**

Gen-1501covaris



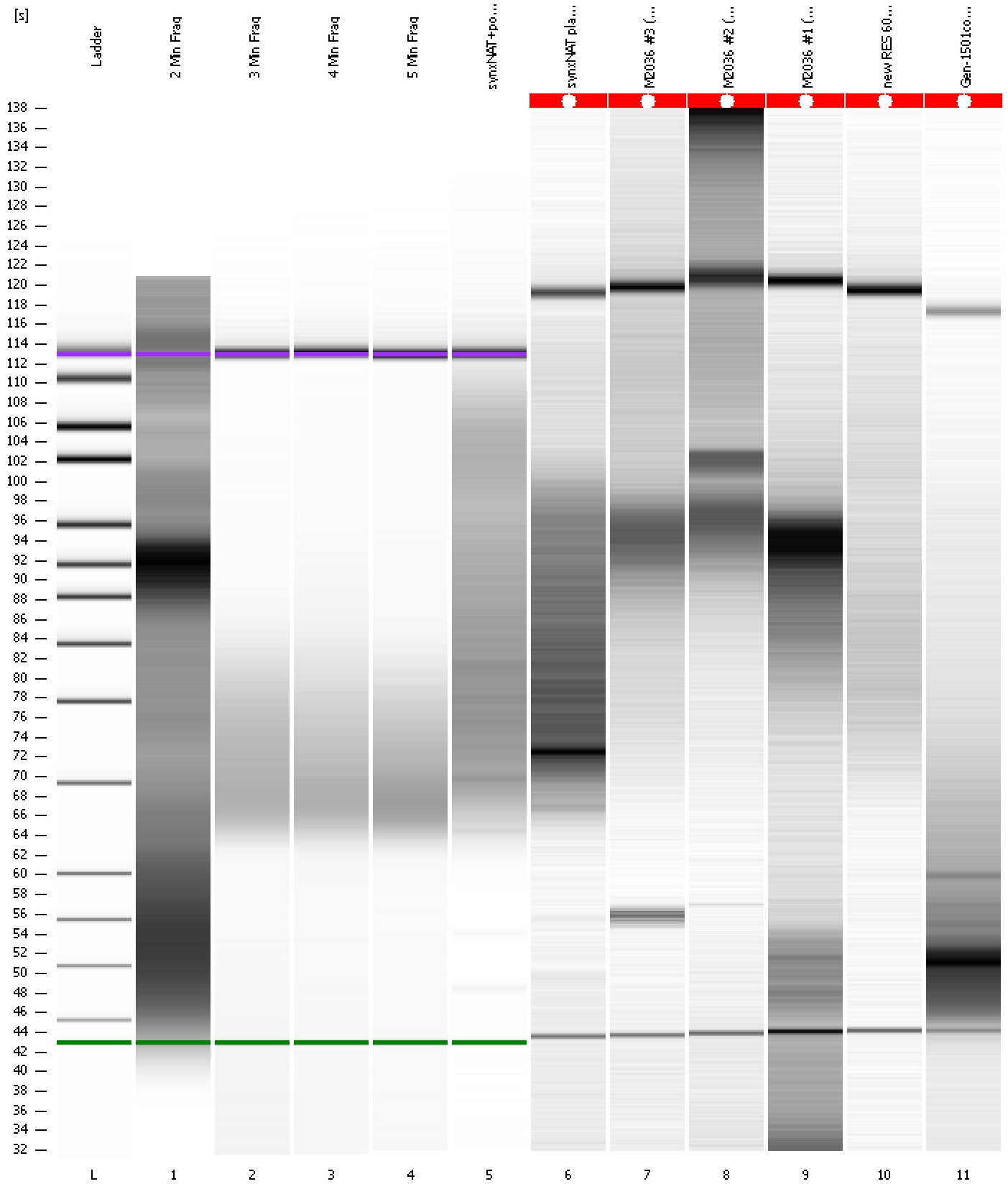
**Overall Results for sample 11 : Gen-1501covaris**

Noise: 0.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
Modified: 5/10/2013 11:53:59 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-10\2013-05-10\_002.xad

Created: 5/10/2013 11:12:36 AM  
 Modified: 5/10/2013 11:53:59 AM

**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		5/10/2013 11:53:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-10\2013-05-10_002.xad)		Instrument	Run		5/10/2013 11:12:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/10/2013 11:12:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/10/2013 11:12:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/10/2013 11:12:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/10/2013 11:12:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/10/2013 11:12:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/10/2013 11:12:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1