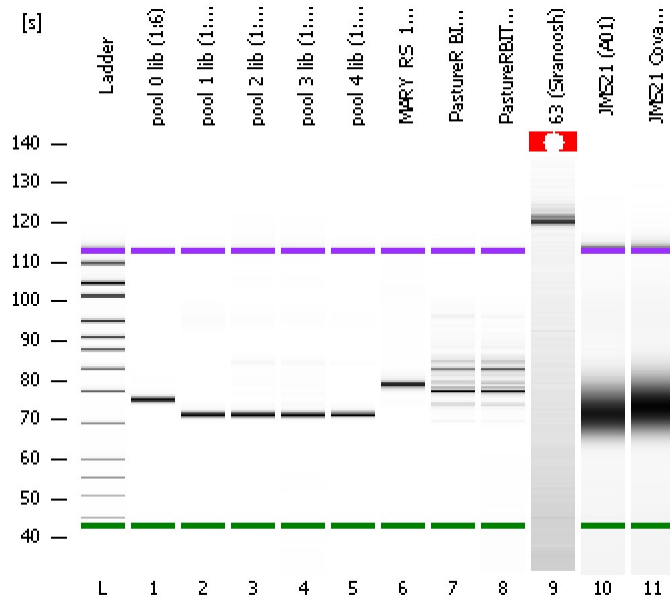


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
Modified: 8/8/2014 2:00:50 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

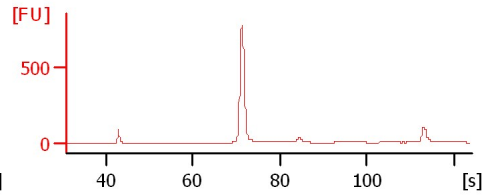
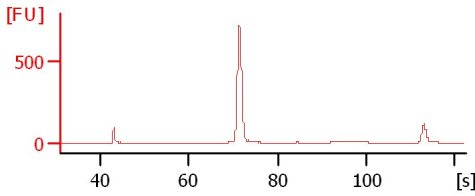
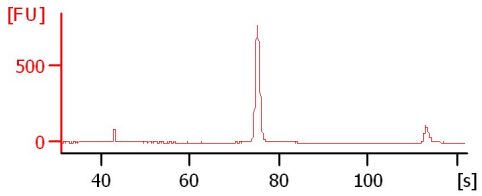
Chip Information:

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

pool 0 lib (1:6)

pool 1 lib (1:10)

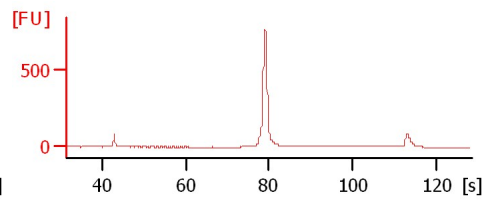
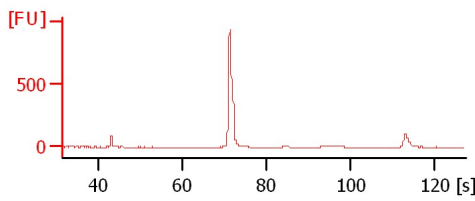
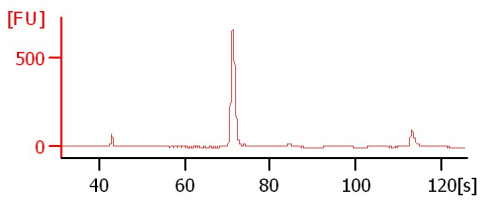
pool 2 lib (1:20)



pool 3 lib (1:20)

pool 4 lib (1:20)

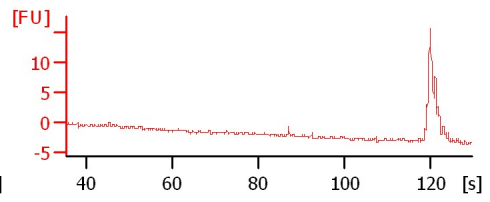
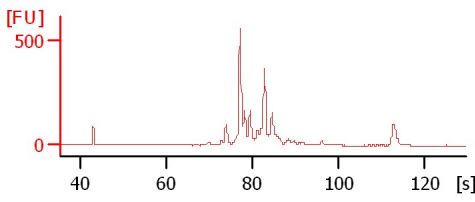
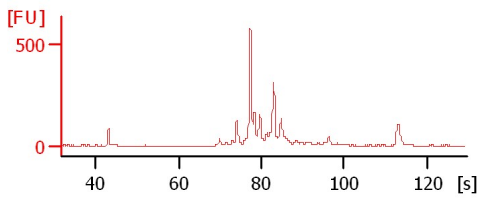
MARY\_RS\_16S\_7-23-14 lib (1:26)



PastureR BITS-1 lib (1:5)

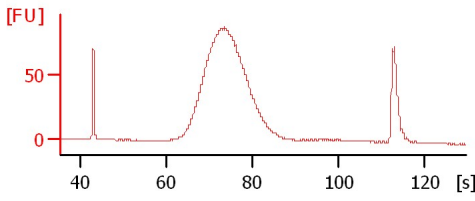
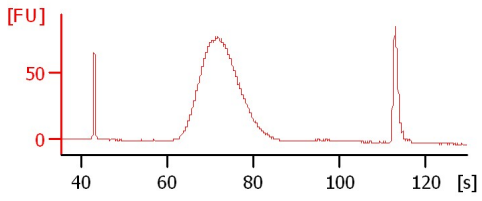
PastureRBITS-2 lib (1:10)

63 (Siranoosh)



JMS21 (A01)

JMS21 Covaris (C02)



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
pool 0 lib (1:6)		<input type="checkbox"/>	✓			
pool 1 lib (1:10)		<input type="checkbox"/>	✓			
pool 2 lib (1:20)		<input type="checkbox"/>	✓			
pool 3 lib (1:20)		<input type="checkbox"/>	✓			
pool 4 lib (1:20)		<input type="checkbox"/>	✓			
MARY_RS_16S_7-23-14 lib (1:26)		<input type="checkbox"/>	✓			
PastureR BITS-1 lib (1:5)		<input type="checkbox"/>	✓			
PastureRBITS-2 lib (1:10)		<input type="checkbox"/>	✓			
63 (Siranoosh)		<input type="checkbox"/>	✓			
JMS21 (A01)		<input type="checkbox"/>	✓			
JMS21 Covaris (C02)		<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\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
Modified: 8/8/2014 2:00:50 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

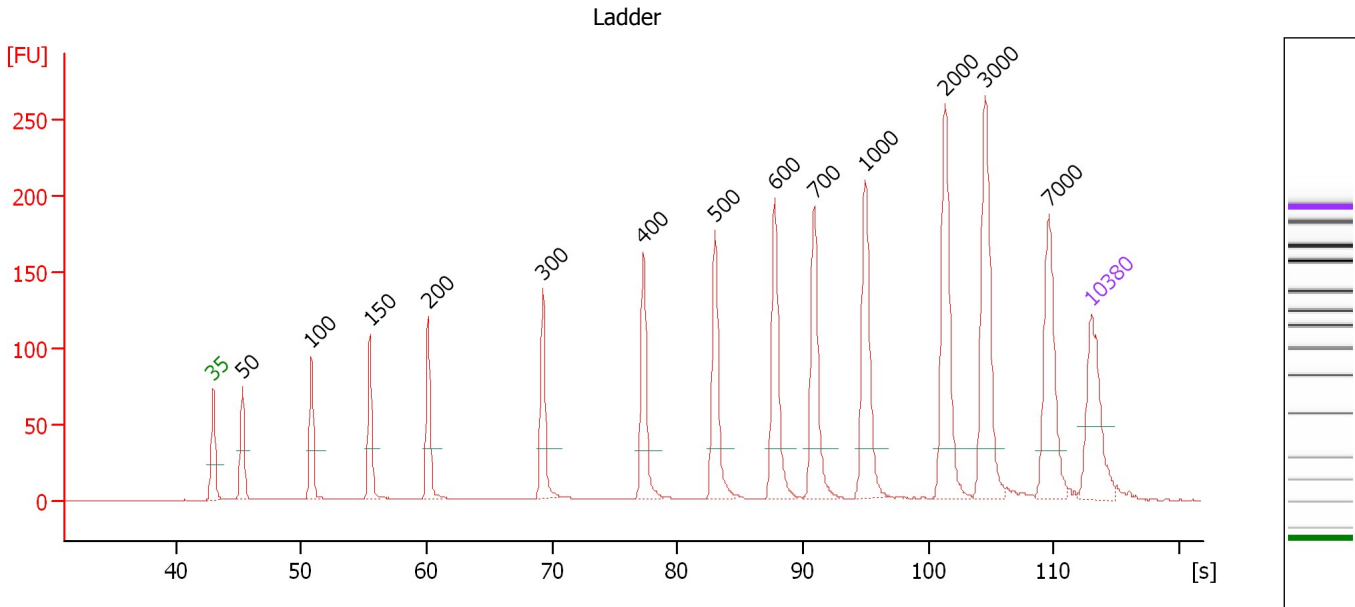
**Ladder**

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\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

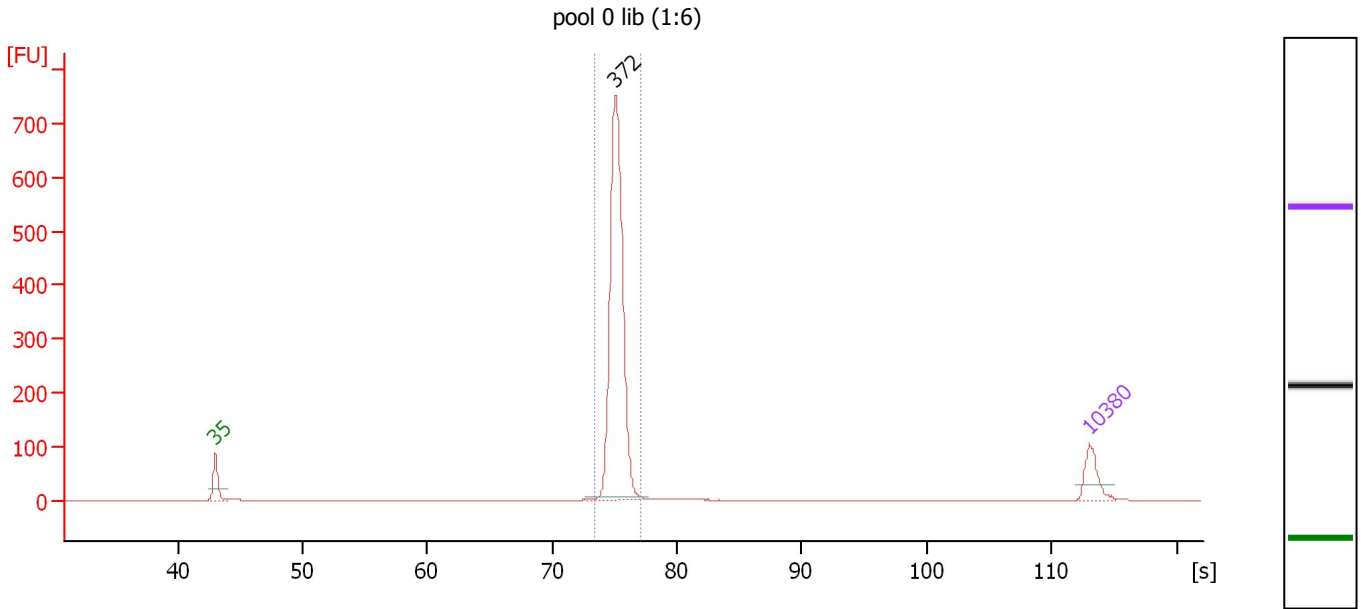
**Peak table for Ladder**

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:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : pool 0 lib (1:6)**

Number of peaks found: 1                      Corr. Area 1: 1,240.4  
 Noise: 0.2

**Peak table for sample 1 : pool 0 lib (1:6)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	372	1,179.96	4,807.6	
3	10,380	75.00	10.9	Upper Marker

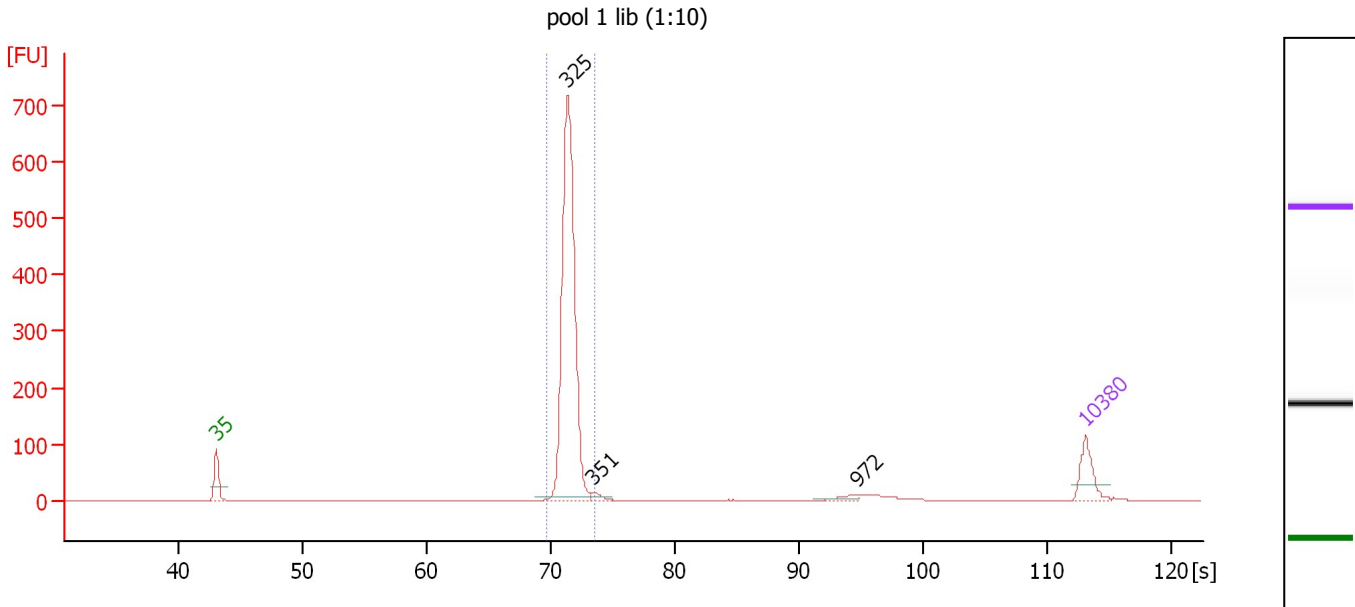
**Region table for sample 1 : pool 0 lib (1:6)**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
352	397	373	4,784.2	1,178.92	1,240.4	95	1.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : pool 1 lib (1:10)**

Number of peaks found: 3                      Corr. Area 1: 1,235.2  
 Noise: 0.2

**Peak table for sample 2 : pool 1 lib (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	325	1,225.14	5,709.0	
3	351	16.02	69.1	
4	972	16.17	25.2	
5	10,380	75.00	10.9	Upper Marker

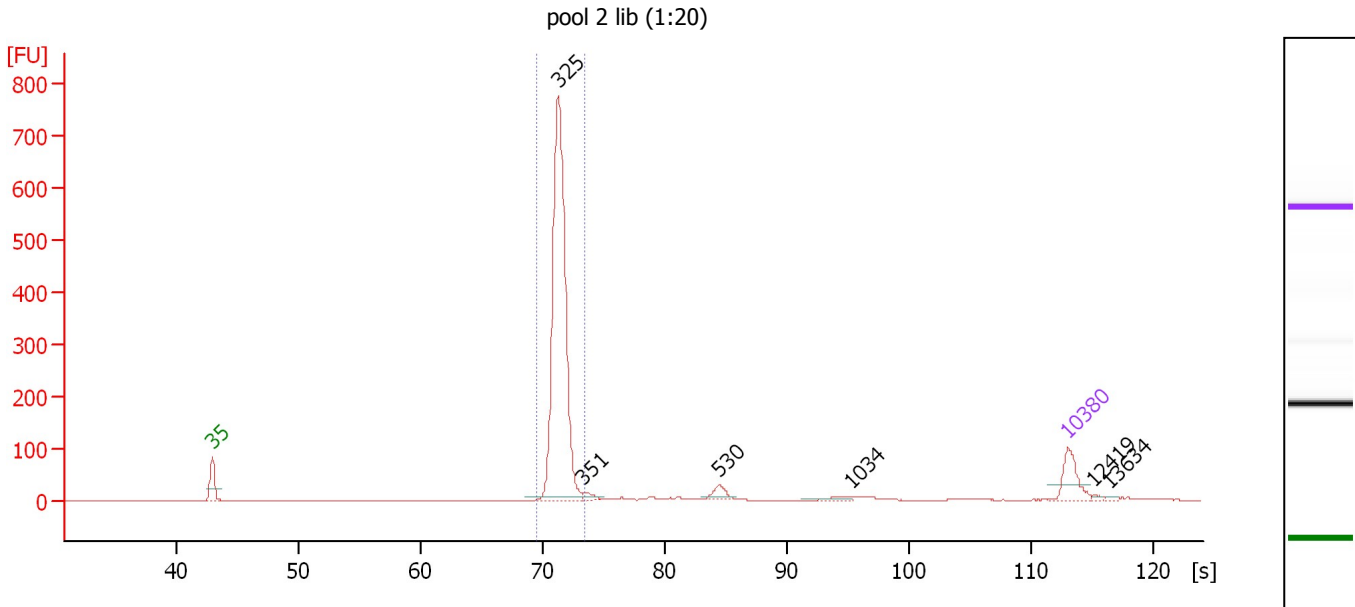
**Region table for sample 2 : pool 1 lib (1:10)**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
304	353	327	5,699.8	1,228.54	1,235.2	93	1.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : pool 2 lib (1:20)**

Number of peaks found: 6                      Corr. Area 1: 1,369.1  
 Noise: 0.2

**Peak table for sample 3 : pool 2 lib (1:20)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	325	1,320.35	6,151.6	
3	351	18.66	80.6	
4	530	34.31	98.1	
5	1,034	17.08	25.0	
6	10,380	75.00	10.9	Upper Marker
7	12,419	0.00	0.0	
8	13,634	0.00	0.0	

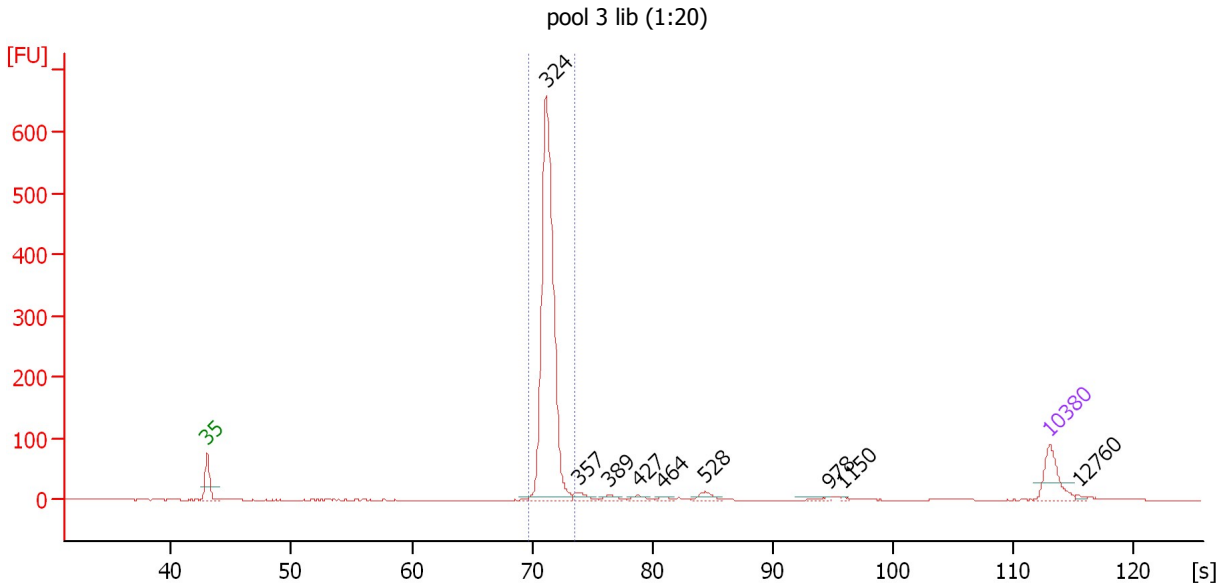
**Region table for sample 3 : pool 2 lib (1:20)**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
304	352	326	6,133.9	1,321.54	1,369.1	88	1.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : pool 3 lib (1:20)**

Number of peaks found: 9                      Corr. Area 1: 1,084.1  
 Noise: 0.4

**Peak table for sample 4 : pool 3 lib (1:20)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	324	1,114.22	5,217.0	
3	357	21.93	93.1	
4	389	14.70	57.3	
5	427	13.03	46.2	
6	464	8.56	28.0	
7	528	22.76	65.3	
8	978	7.18	11.1	
9	1,150	2.63	3.5	
10	10,380	75.00	10.9	Upper Marker
11	12,760	0.00	0.0	

**Region table for sample 4 : pool 3 lib (1:20)**

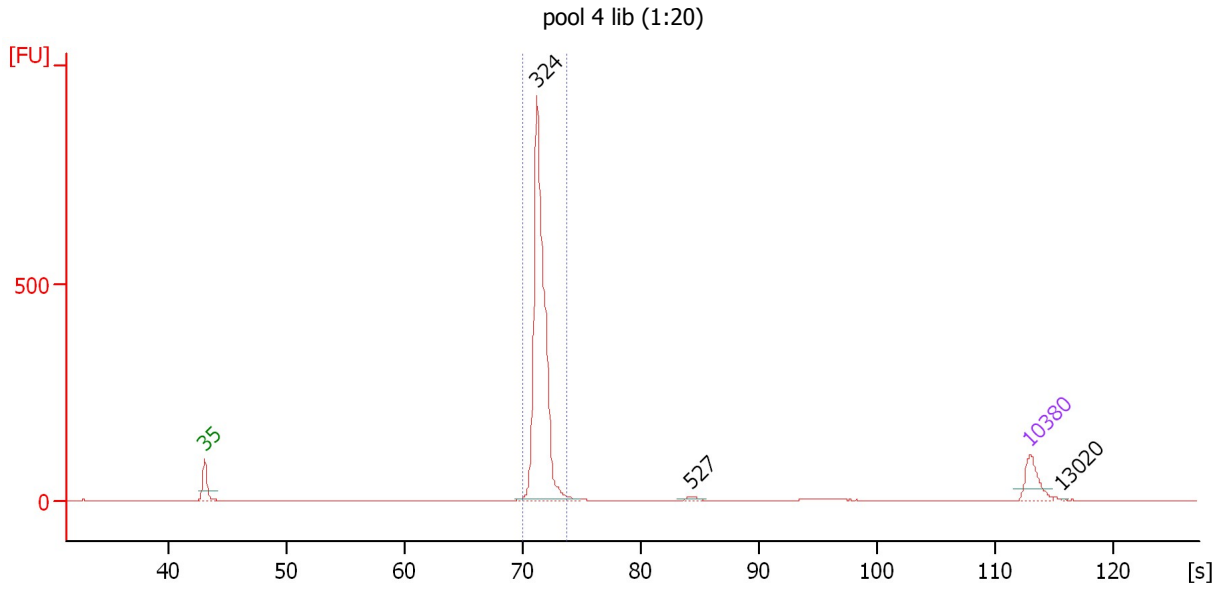
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
306	352	326	5,139.6	1,105.59	1,084.1	87	1.9



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : pool 4 lib (1:20)**

Number of peaks found: 3                      Corr. Area 1: 1,363.9  
 Noise: 0.4

**Peak table for sample 5 : pool 4 lib (1:20)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	324	1,280.88	5,994.6	
3	527	11.62	33.4	
4	10,380	75.00	10.9	Upper Marker
5	13,020	0.00	0.0	

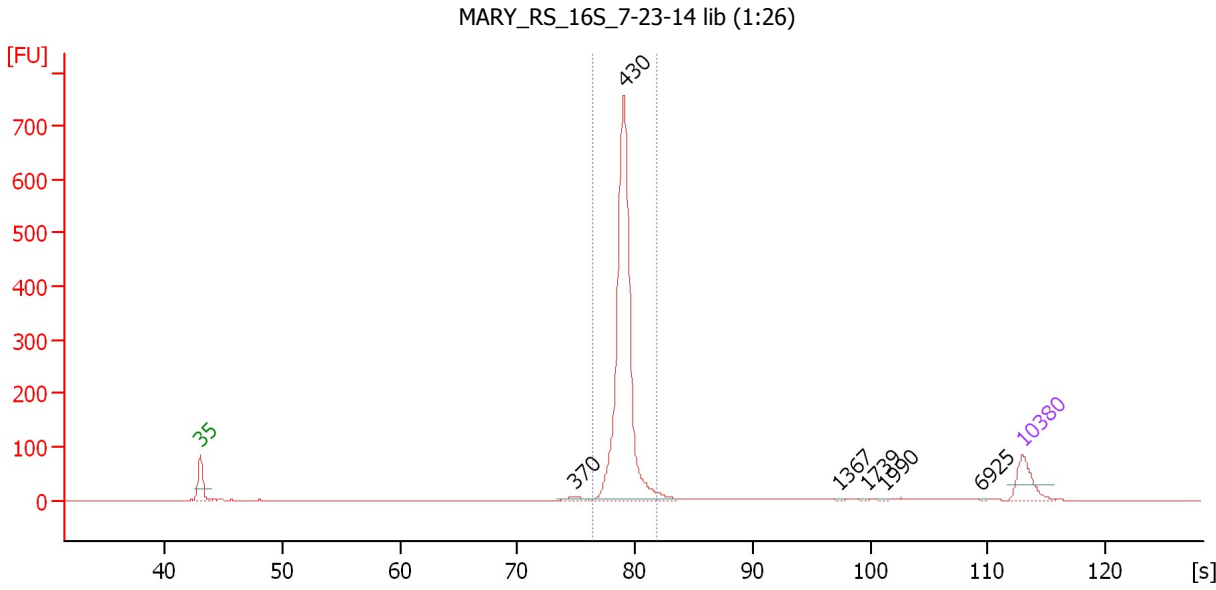
**Region table for sample 5 : pool 4 lib (1:20)**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
309	356	327	5,822.9	1,258.16	1,363.9	95	2.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : MARY\_RS\_16S\_7-23-14 lib (1:26)**

Number of peaks found: 6                      Corr. Area 1: 1,268.4  
 Noise: 0.4

**Peak table for sample 6 : MARY\_RS\_16S\_7-23-14 lib (1:26)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	370	14.63	59.9	
3	430	1,173.19	4,129.1	
4	1,367	2.96	3.3	
5	1,739	3.12	2.7	
6	1,990	3.76	2.9	
7	6,925	1.69	0.4	
8	10,380	75.00	10.9	Upper Marker

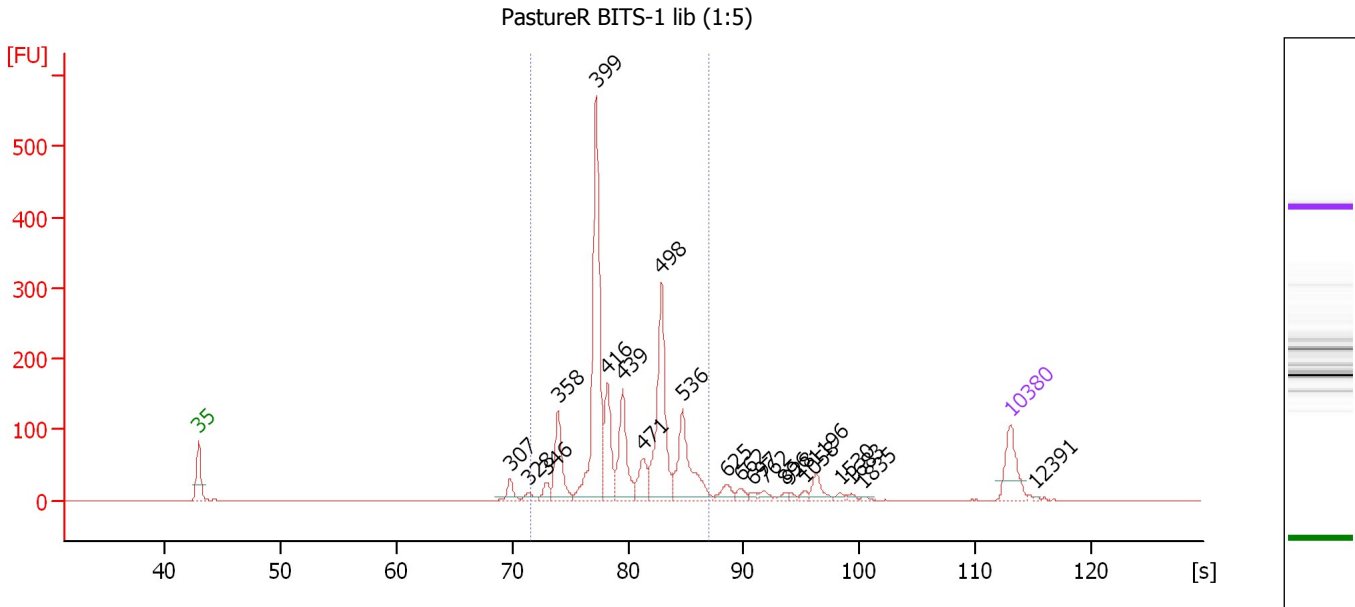
**Region table for sample 6 : MARY\_RS\_16S\_7-23-14 lib (1:26)**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
389	480	430	4,069.8	1,155.80	1,268.4	87	2.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : PastureR BITS-1 lib (1:5)**

Number of peaks found: 22                      Corr. Area 1: 1,570.4  
 Noise: 0.3

**Peak table for sample 7 : PastureR BITS-1 lib (1:5)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	307	30.66	151.2	
3	328	16.41	75.8	
4	346	25.54	111.7	
5	358	131.15	554.4	
6	399	505.32	1,917.4	
7	416	136.04	495.4	
8	439	151.06	521.5	
9	471	64.92	209.0	
10	498	301.96	918.2	
11	536	180.66	510.7	
12	625	27.04	65.5	
13	662	16.02	36.7	
14	697	8.24	17.9	
15	762	11.42	22.7	
16	896	7.33	12.4	
17	928	6.36	10.4	
18	1,058	8.11	11.6	
19	1,196	31.70	40.2	
20	1,530	6.95	6.9	
21	1,683	5.97	5.4	
22	1,835	3.63	3.0	
23	10,380	75.00	10.9	Upper Marker
24	12,391	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**

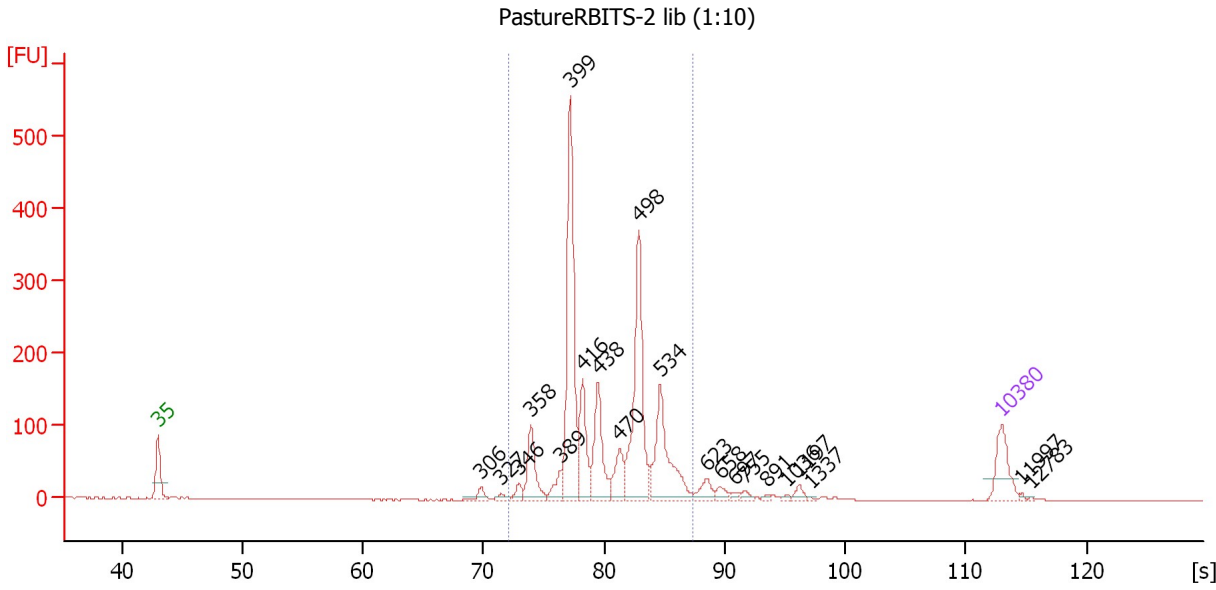
... Region table for sample 7 : PastureR BITS-1 lib (1:5)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
330	583	444	5,169.8	1,486.91	 1,570.4	88	13.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : PastureRBITS-2 lib (1:10)**

Number of peaks found: 21                      Corr. Area 1: 1,643.3  
 Noise: 0.3

**Peak table for sample 8 : PastureRBITS-2 lib (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	306	18.16	89.9	
3	327	11.54	53.5	
4	346	20.65	90.5	
5	358	108.79	460.6	
6	389	37.33	145.3	
7	399	456.36	1,734.6	
8	416	136.46	496.8	
9	438	157.73	545.2	
10	470	74.22	239.5	
11	498	366.52	1,116.2	
12	534	226.08	640.9	
13	623	32.36	78.7	
14	658	17.84	41.1	
15	697	8.48	18.4	
16	755	10.60	21.3	
17	891	5.14	8.7	
18	1,036	4.25	6.2	
19	1,197	13.49	17.1	
20	1,337	2.21	2.5	
21	10,380	75.00	10.9	Upper Marker
22	11,997	0.00	0.0	
23	12,783	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**

... Region table for sample 8 : PastureRBITS-2 lib (1:10)

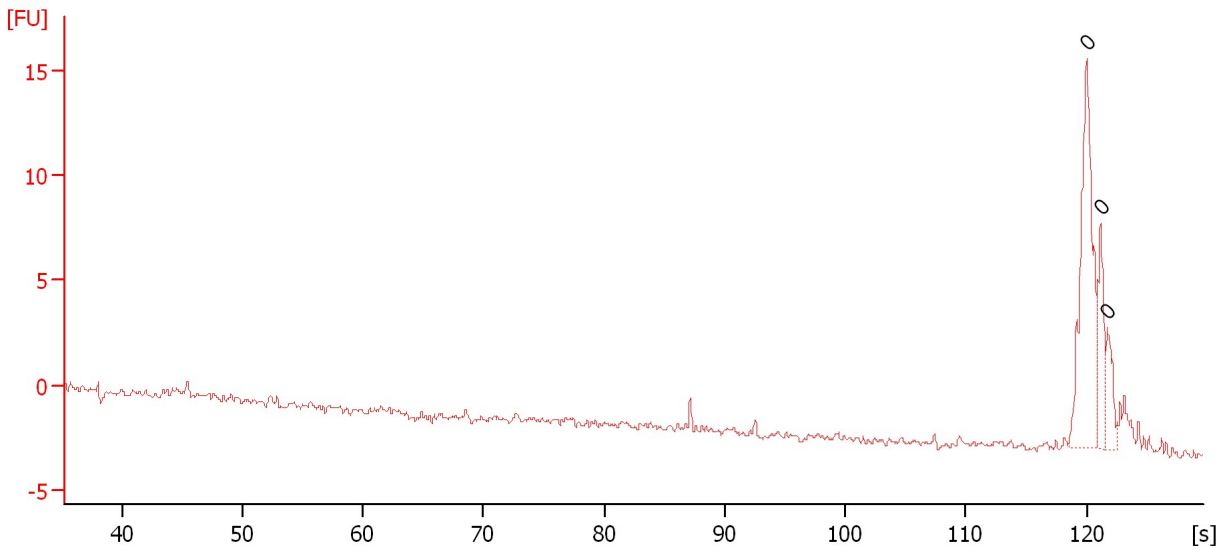
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
335	591	451	5,362.2	1,565.95	■ 1,643.3	91	13.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**

63 (Siranoosh)



**Overall Results for sample 9 : 63 (Siranoosh)**

Number of peaks found: 0                      Noise: 0.2

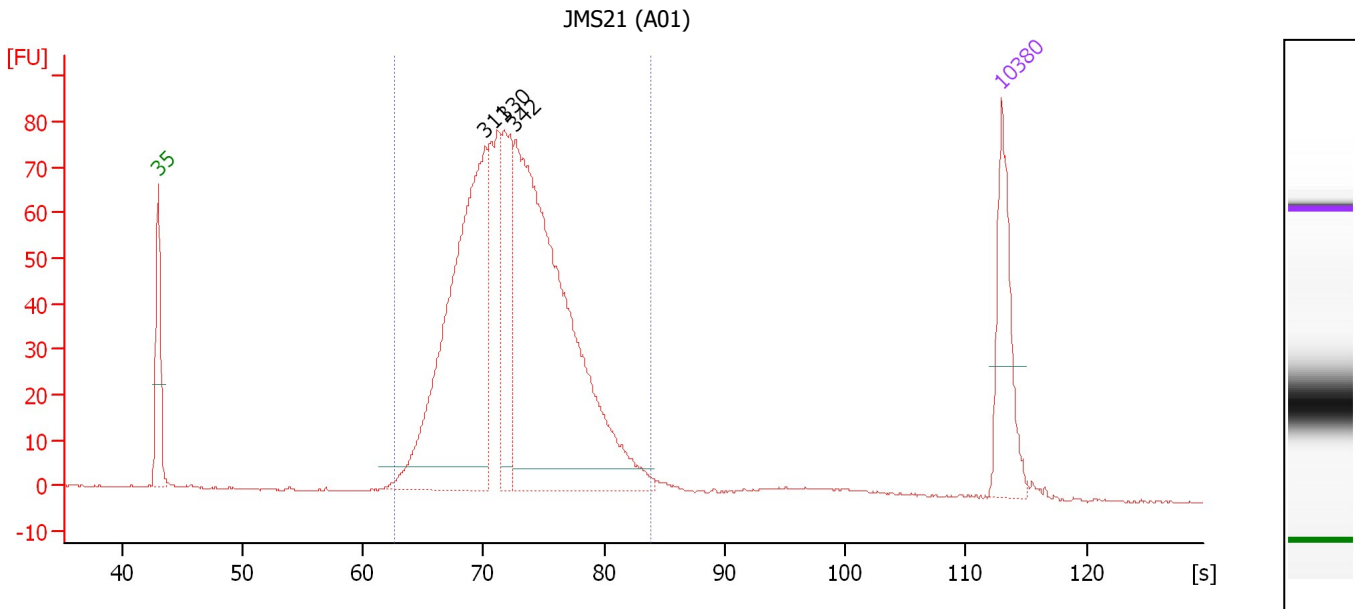
**Peak table for sample 9 : 63 (Siranoosh)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : JMS21 (A01)**

Number of peaks found: 3                      Corr. Area 1: 1,174.2  
 Noise: 0.2

**Peak table for sample 10 : JMS21 (A01)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	311	475.90	2,321.6	
3	330	132.58	608.8	
4	342	621.64	2,756.8	
5	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : JMS21 (A01)**

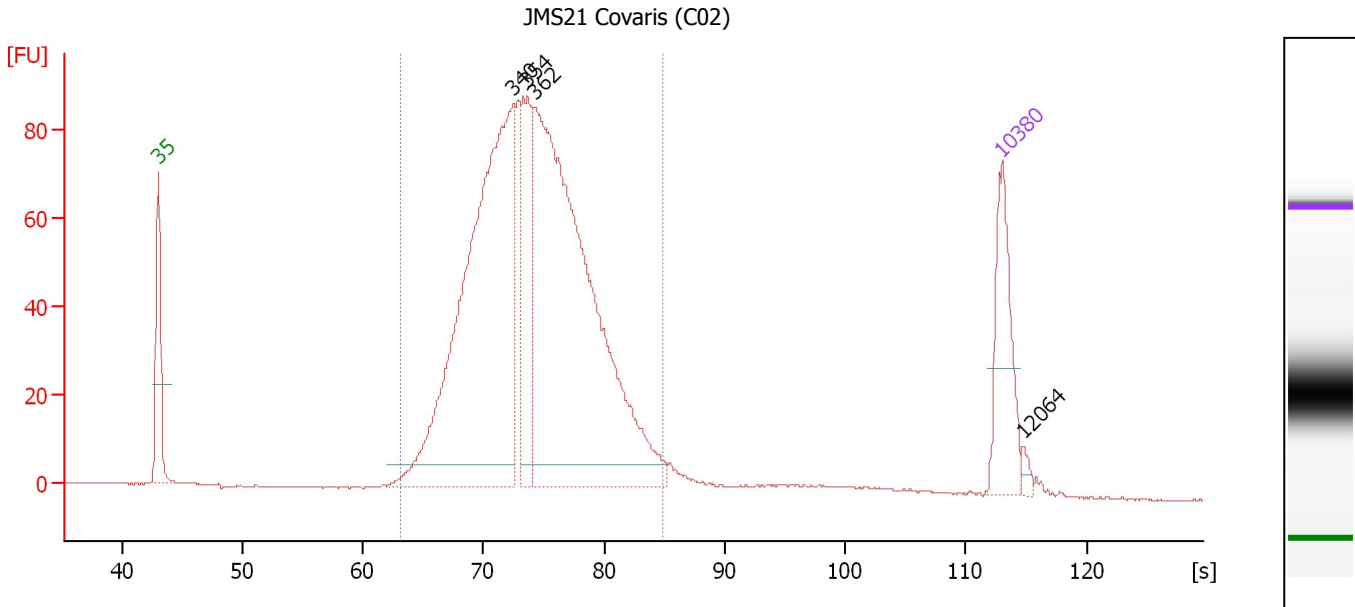
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
227	517	341	6,206.6	1,356.29	1,174.2	96	15.4



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : JMS21 Covaris (C02)**

Number of peaks found: 4                      Corr. Area 1: 1,379.1  
 Noise: 0.1

**Peak table for sample 11 : JMS21 Covaris (C02)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	340	633.87	2,827.9	
3	354	122.72	524.7	
4	362	721.85	3,021.3	
5	10,380	75.00	10.9	Upper Marker
6	12,064	0.00	0.0	

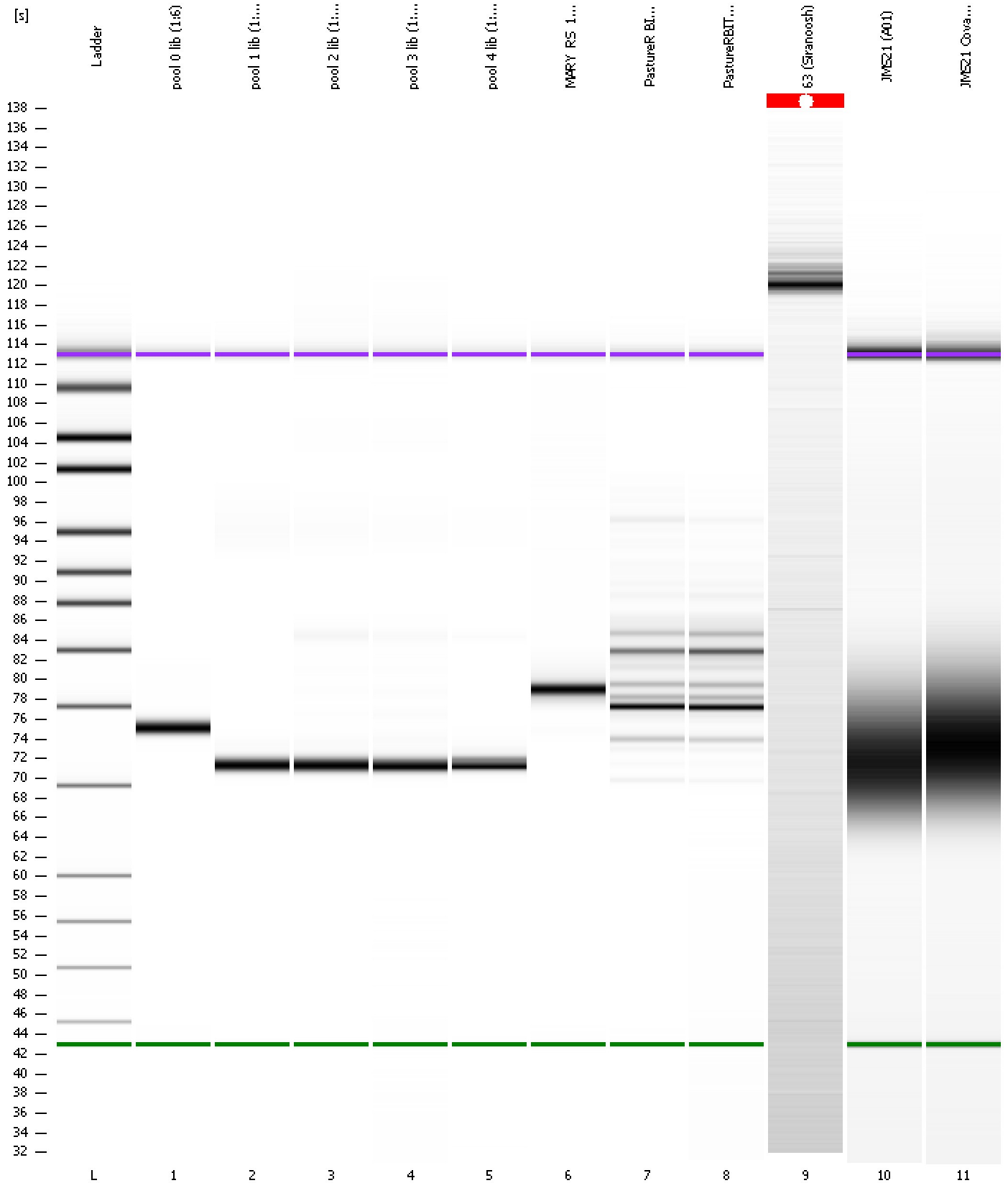
**Region table for sample 11 : JMS21 Covaris (C02)**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
233	538	361	6,842.5	1,577.52	1,379.1	95	16.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
Modified: 8/8/2014 2:00:50 PM

Gel Image



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08\_002.xad

Created: 8/8/2014 1:18:04 PM  
 Modified: 8/8/2014 2:00:50 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		8/8/2014 1:59:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_002.xad)		Instrument	Run		8/8/2014 1:18:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/8/2014 1:18:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/8/2014 1:18:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/8/2014 1:18:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/8/2014 1:18:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/8/2014 1:18:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/8/2014 1:18:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1