

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_005.xad

Created: 7/24/2014 2:49:35 PM
Modified: 7/24/2014 3:33:17 PM

Electrophoresis File Run Summary

Instrument Information:

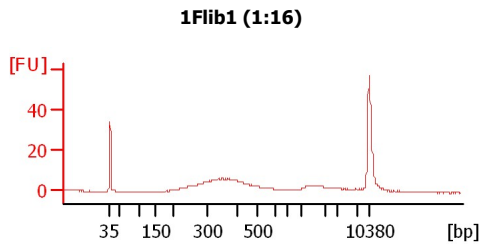
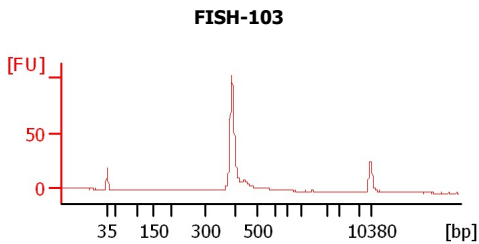
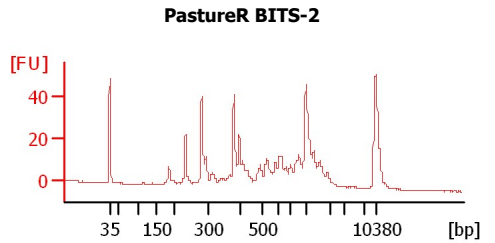
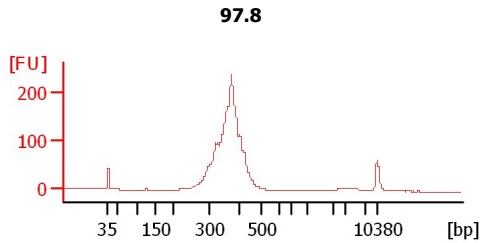
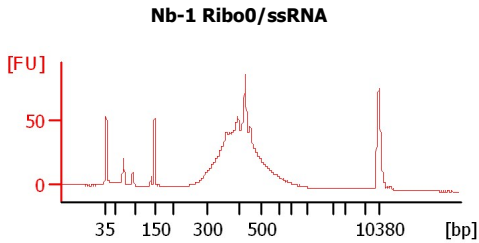
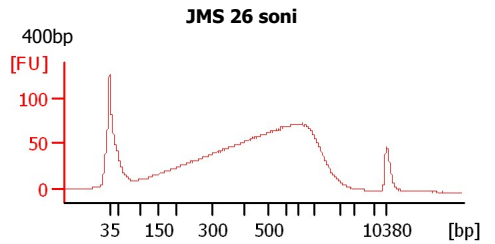
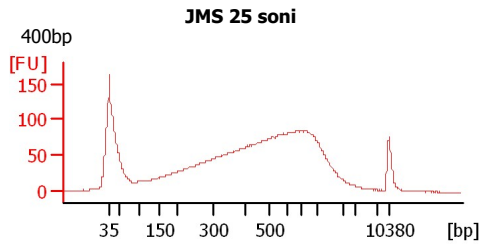
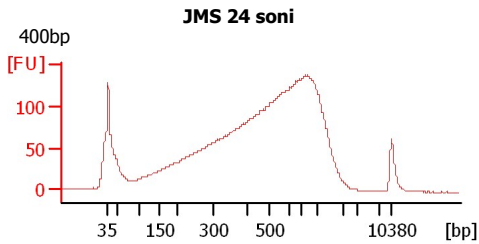
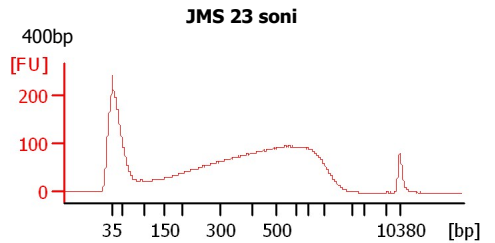
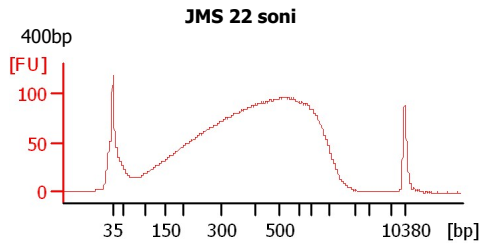
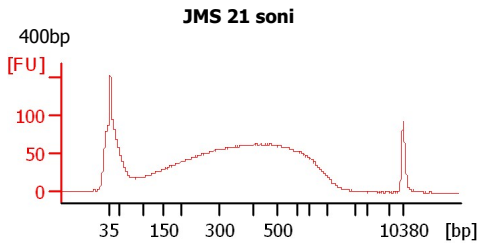
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JMS 21 soni	400bp	<input type="checkbox"/>	✓			
JMS 22 soni	400bp	<input type="checkbox"/>	✓			
JMS 23 soni	400bp	<input type="checkbox"/>	✓			
JMS 24 soni	400bp	<input type="checkbox"/>	✓			
JMS 25 soni	400bp	<input type="checkbox"/>	✓			
JMS 26 soni	400bp	<input type="checkbox"/>	✓			
Nb-1 Ribo0/ssRNA		<input type="checkbox"/>	✓			
97.8		<input type="checkbox"/>	✓			
PastureR BITS-2		<input type="checkbox"/>	✓			
FISH-103		<input type="checkbox"/>	✓			
1Flib1 (1:16)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

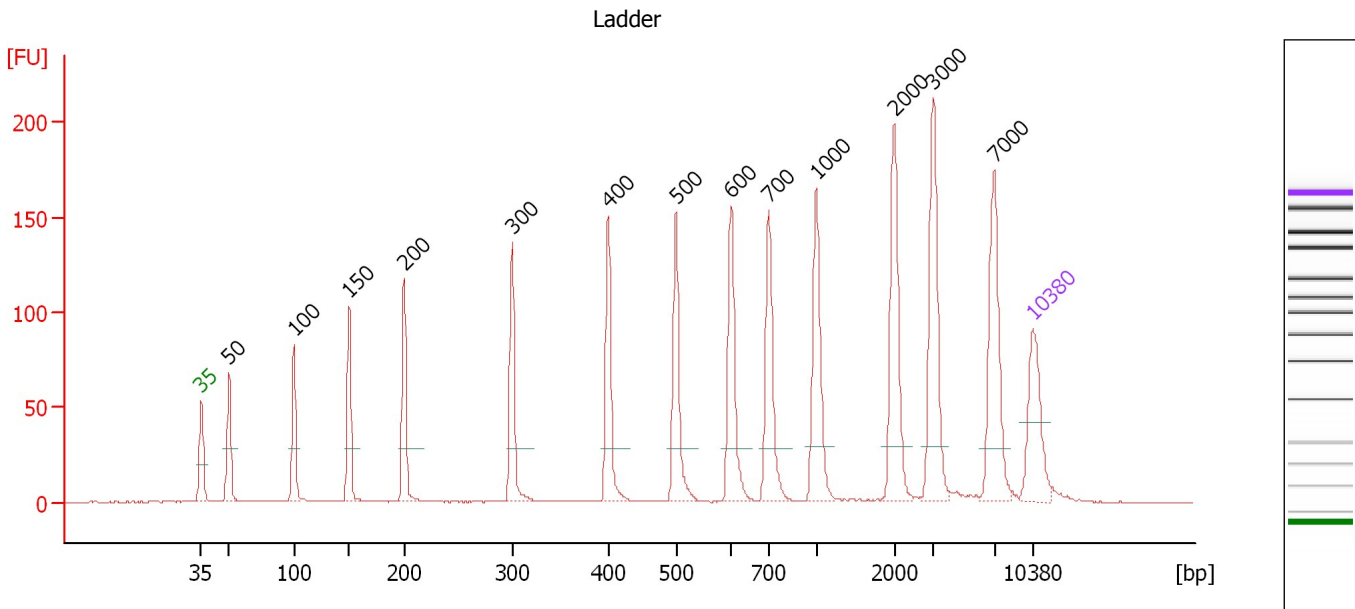
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

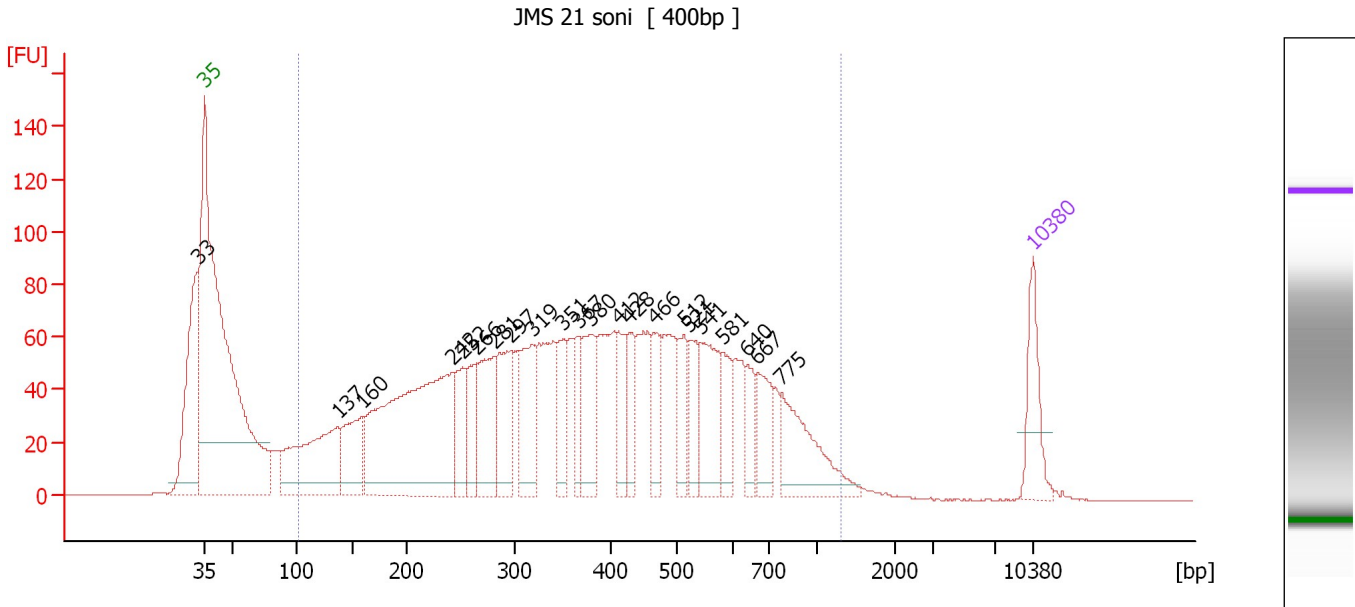
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : JMS 21 soni

Number of peaks found: 22 Corr. Area 1: 2,991.6
 Noise: 0.1

Peak table for sample 1 : JMS 21 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	137	336.49	3,708.4	
4	160	155.47	1,474.3	
5	242	677.31	4,236.0	
6	252	96.60	580.5	
7	266	101.53	579.4	
8	281	169.52	913.0	
9	297	151.85	774.3	
10	319	159.08	756.7	
11	351	93.58	404.1	
12	367	59.92	247.3	
13	380	126.33	503.9	
14	412	78.03	287.1	
15	428	68.21	241.2	
16	466	70.37	229.0	
17	512	73.55	217.7	
18	521	71.13	207.0	
19	541	136.52	382.4	
20	581	68.16	177.6	
21	640	49.66	117.6	
22	667	84.26	191.4	
23	775	159.41	311.7	
24	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

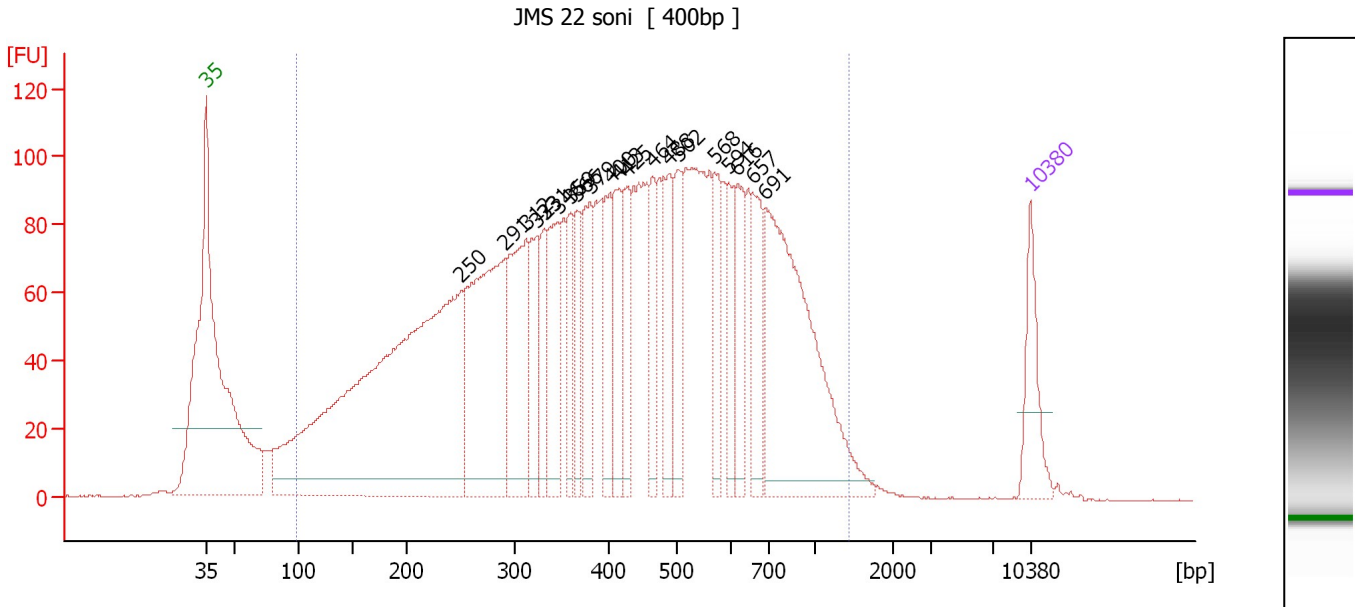
... Region table for sample 1 : JMS 21 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
103	1,317	411	20,779.7	3,864.79	 2,991.6	90	48.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : JMS 22 soni

Number of peaks found: 20 Corr. Area 1: 4,277.2
 Noise: 0.1

Peak table for sample 2 : JMS 22 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	250	1,349.39	8,169.8	
3	291	497.06	2,583.7	
4	312	258.98	1,256.7	
5	323	124.89	585.0	
6	331	92.75	424.9	
7	346	163.66	716.9	
8	359	85.64	361.1	
9	366	91.81	380.0	
10	379	129.52	517.1	
11	400	108.73	411.6	
12	413	116.53	427.5	
13	425	109.62	390.9	
14	464	90.15	294.5	
15	488	127.68	396.1	
16	502	108.69	327.8	
17	568	97.08	258.8	
18	594	80.24	204.5	
19	616	94.72	232.9	
20	657	112.30	259.1	
21	691	520.03	1,140.0	
22	10,380	75.00	10.9	Upper Marker

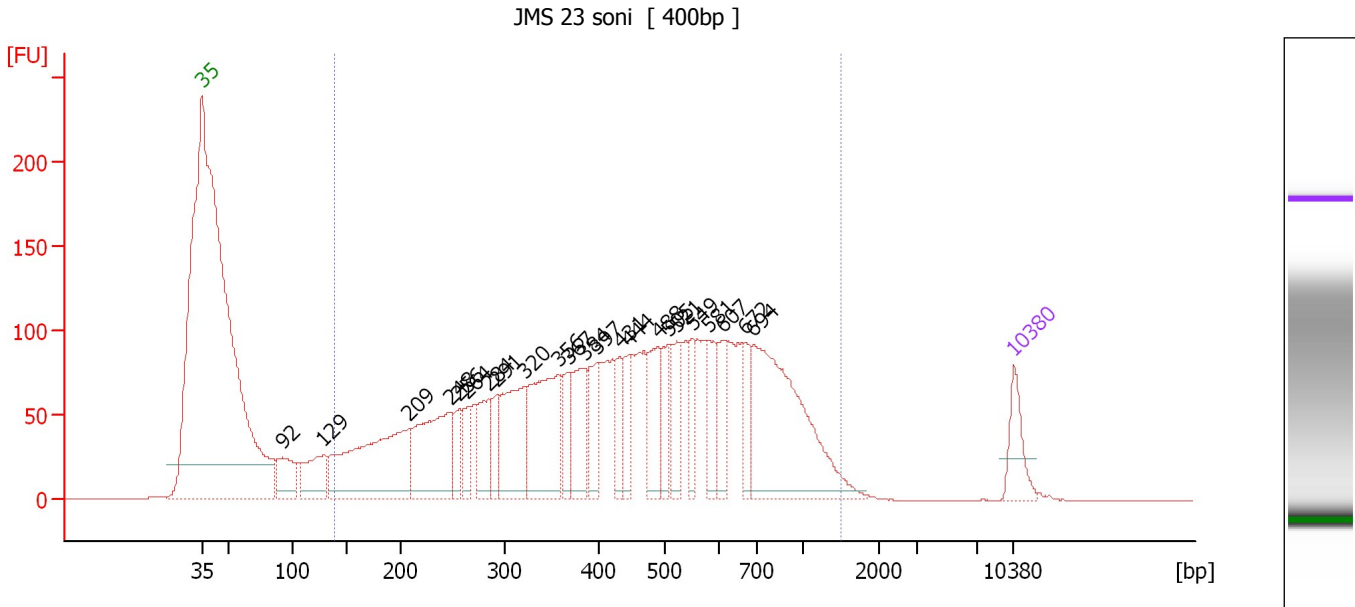
Region table for sample 2 : JMS 22 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
100	1,439	452	27,726.0	5,549.28	4,277.2	97	50.0

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Electropherogram Summary Continued ...



Overall Results for sample 3 : JMS 23 soni

Number of peaks found: 23 Corr. Area 1: 3,841.3
 Noise: 0.1

Peak table for sample 3 : JMS 23 soni


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	92	146.56	2,403.7	
3	129	169.28	1,987.7	
4	209	576.92	4,183.1	
5	248	373.88	2,286.2	
6	256	79.18	468.9	
7	264	85.53	491.0	
8	284	147.19	786.4	
9	291	78.60	409.0	
10	320	281.89	1,334.0	
11	356	356.45	1,517.1	
12	367	91.72	378.3	
13	384	176.42	696.4	
14	397	120.38	459.5	
15	431	88.06	309.5	
16	444	94.23	321.5	
17	488	148.50	460.7	
18	505	95.29	285.6	
19	521	112.83	328.0	
20	549	81.57	225.2	
21	581	98.97	258.0	
22	607	96.32	240.3	
23	672	90.02	203.1	
24	694	591.05	1,291.3	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...

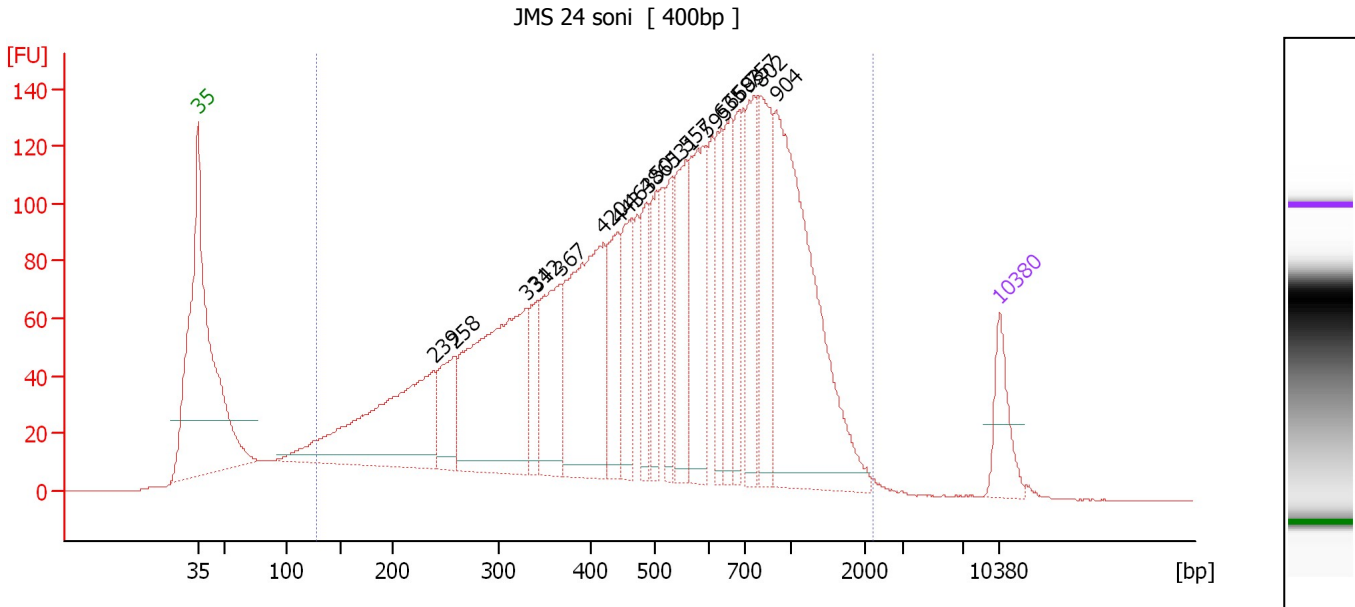
... Region table for sample 3 : JMS 23 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
139	1,507	486	20,929.4	4,731.96	 3,841.3	93	49.3

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 4 : JMS 24 soni

Number of peaks found: 19 Corr. Area 1: 4,501.2
 Noise: 0.1

Peak table for sample 4 : JMS 24 soni

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	239	574.99	3,650.4	
3	258	158.39	929.9	
4	331	602.79	2,758.6	
5	342	97.00	429.7	
6	367	242.15	1,000.2	
7	420	480.68	1,734.3	
8	443	181.62	621.5	
9	463	148.76	486.6	
10	486	120.73	376.3	
11	501	124.48	376.5	
12	531	110.58	315.6	
13	557	200.45	545.4	
14	595	266.52	679.0	
15	635	125.20	298.7	
16	659	153.68	353.4	
17	683	108.04	239.8	
18	757	166.69	333.8	
19	802	226.04	427.0	
20	904	660.74	1,108.0	
21	10,380	75.00	10.9	Upper Marker

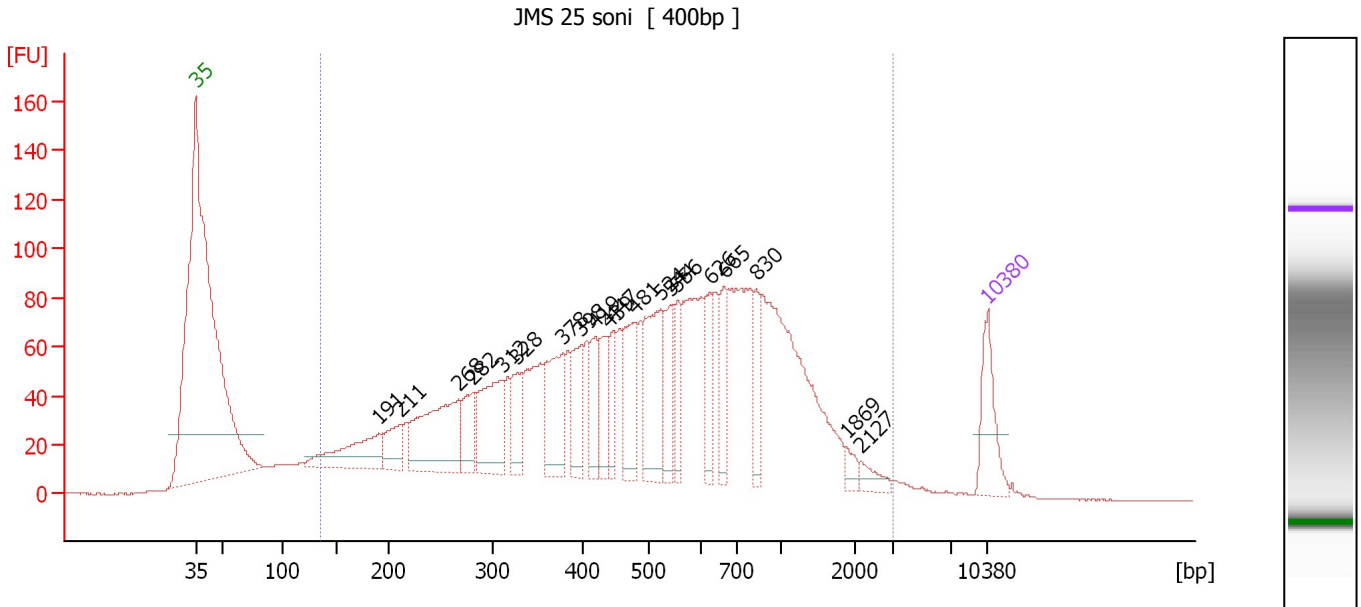
Region table for sample 4 : JMS 24 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
128	2,211	590	23,581.9	5,913.88	4,501.2	96	56.6

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Electropherogram Summary Continued ...



Overall Results for sample 5 : JMS 25 soni

Number of peaks found: 20 Corr. Area 1: 3,242.8
 Noise: 0.2

Peak table for sample 5 : JMS 25 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	191	142.74	1,133.9	
3	211	74.59	534.9	
4	268	244.39	1,383.7	
5	282	80.16	430.6	
6	312	173.17	841.4	
7	328	75.59	349.6	
8	378	146.54	587.8	
9	398	86.36	328.7	
10	419	70.48	255.0	
11	439	74.96	259.0	
12	447	55.42	187.9	
13	481	127.31	401.3	
14	524	179.34	518.7	
15	544	81.95	228.2	
16	556	59.90	163.2	
17	626	73.08	176.8	
18	665	70.83	161.3	
19	830	56.85	103.7	
20	1,869	15.74	12.8	
21	2,127	20.23	14.4	
22	10,380	75.00	10.9	Upper Marker

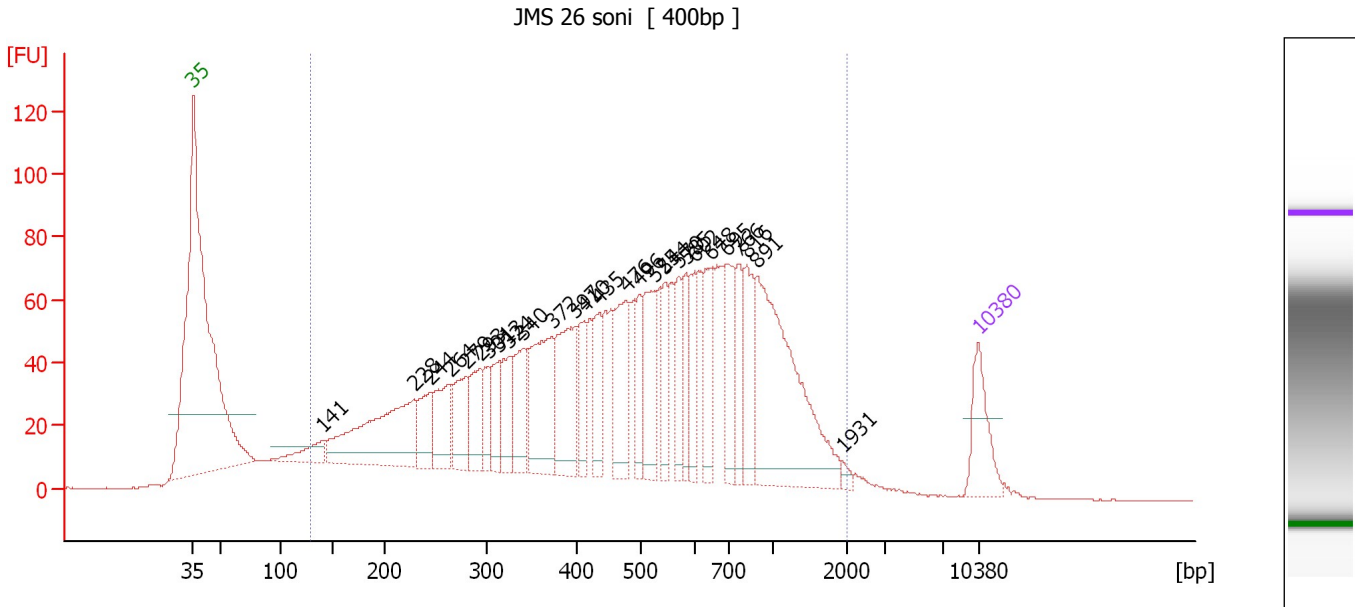
Region table for sample 5 : JMS 25 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
136	3,026	609	15,881.3	3,929.88	3,242.8	95	68.1

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Electropherogram Summary Continued ...



Overall Results for sample 6 : JMS 26 soni

Number of peaks found: 27 Corr. Area 1: 2,770.1
 Noise: 0.1

Peak table for sample 6 : JMS 26 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	141	60.46	651.8	
3	228	339.62	2,254.1	
4	244	90.74	562.4	
5	264	116.76	670.7	
6	279	100.37	544.3	
7	293	94.83	490.4	
8	301	55.08	277.4	
9	313	63.72	308.2	
10	324	81.20	379.9	
11	340	104.40	465.6	
12	372	202.59	826.2	
13	397	187.68	715.6	
14	410	77.85	287.4	
15	435	85.18	296.9	
16	476	152.31	484.4	
17	496	66.14	202.2	
18	525	130.53	376.6	
19	544	66.13	184.0	
20	570	65.92	175.2	
21	585	65.56	169.7	
22	602	74.85	188.3	
23	648	113.16	264.7	
24	695	110.96	242.1	
25	766	71.01	140.5	
26	816	96.33	179.0	

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Electropherogram Summary Continued ...**... Peak table for sample 6 : JMS 26 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	891	403.46	686.4	
28	1,931	7.89	6.2	
29	▶ 10,380	75.00	10.9	Upper Marker

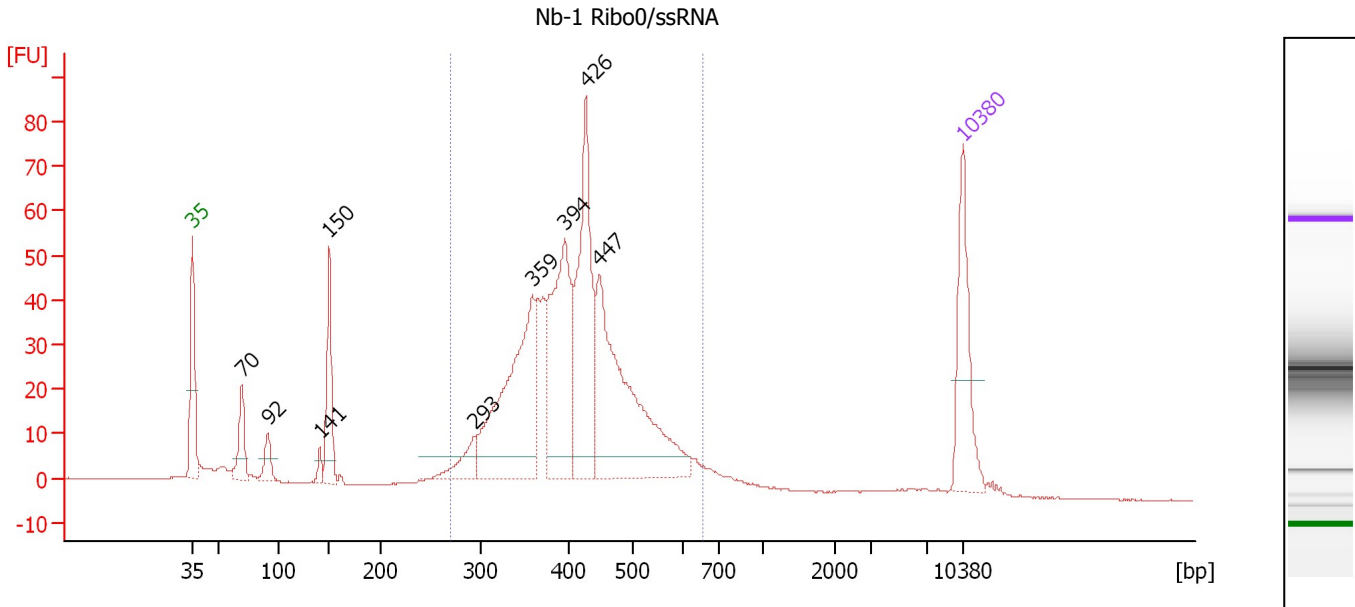
Region table for sample 6 : JMS 26 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
129	2,005	561	18,159.8	4,305.70	■ 2,770.1	95	59.1

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Electropherogram Summary Continued ...



Overall Results for sample 7 : Nb-1 Ribo0/ssRNA

Number of peaks found: 9 Corr. Area 1: 792.9
 Noise: 0.1

Peak table for sample 7 : Nb-1 Ribo0/ssRNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	70	52.17	1,129.6	
3	92	28.10	463.6	
4	141	10.79	116.1	
5	150	86.66	874.6	
6	293	34.06	175.9	
7	359	232.51	982.6	
8	394	192.81	740.6	
9	426	189.65	674.3	
10	447	261.57	885.8	
11	10,380	75.00	10.9	Upper Marker

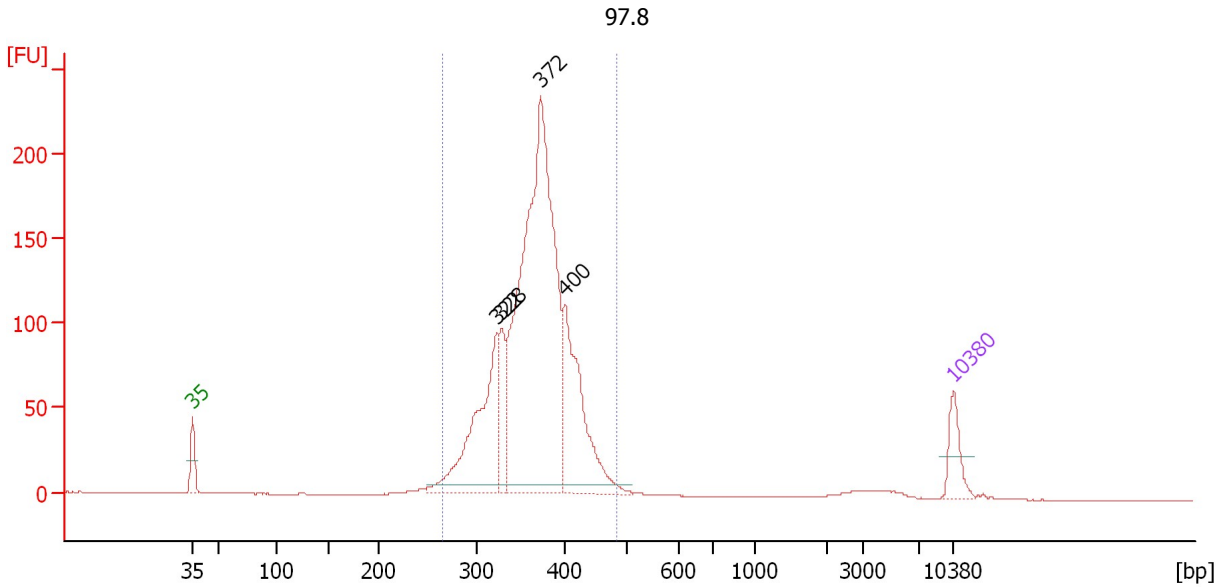
Region table for sample 7 : Nb-1 Ribo0/ssRNA

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
271	653	415	4,101.6	1,079.33	792.9	82	17.8

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 97.8

Number of peaks found: 4 Corr. Area 1: 1,779.6
 Noise: 0.1

Peak table for sample 8 : 97.8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	322	531.45	2,500.2	
3	328	156.73	725.0	
4	372	1,737.30	7,067.5	
5	400	481.59	1,825.3	
6	10,380	75.00	10.9	Upper Marker

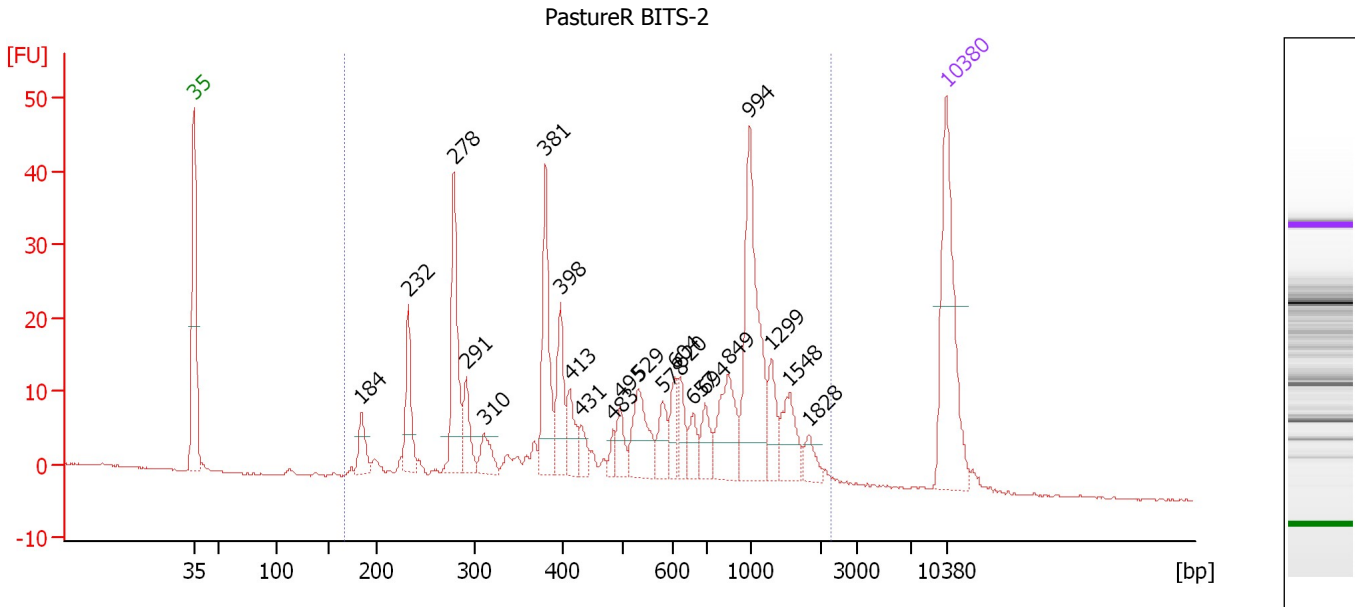
Region table for sample 8 : 97.8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
264	482	364	12,499.8	2,966.93	1,779.6	96	10.7

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Electropherogram Summary Continued ...



Overall Results for sample 9 : PastureR BITS-2

Number of peaks found: 22 Corr. Area 1: 461.4
 Noise: 0.1

Peak table for sample 9 : PastureR BITS-2


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	184	21.73	179.0	
3	232	40.44	264.6	
4	278	76.33	415.4	
5	291	24.58	128.0	
6	310	16.59	81.1	
7	381	65.30	259.9	
8	398	35.36	134.7	
9	413	20.24	74.3	
10	431	10.44	36.7	
11	483	6.00	18.8	
12	495	15.41	47.2	
13	529	36.81	105.4	
14	578	17.16	45.0	
15	604	16.49	41.4	
16	620	15.79	38.6	
17	657	13.03	30.0	
18	694	16.38	35.8	
19	849	38.84	69.3	
20	994	93.88	143.1	
21	1,299	19.68	23.0	
22	1,548	23.45	22.9	
23	1,828	9.02	7.5	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_005.xad

Created: 7/24/2014 2:49:35 PM
Modified: 7/24/2014 3:33:17 PM

Electropherogram Summary Continued ...

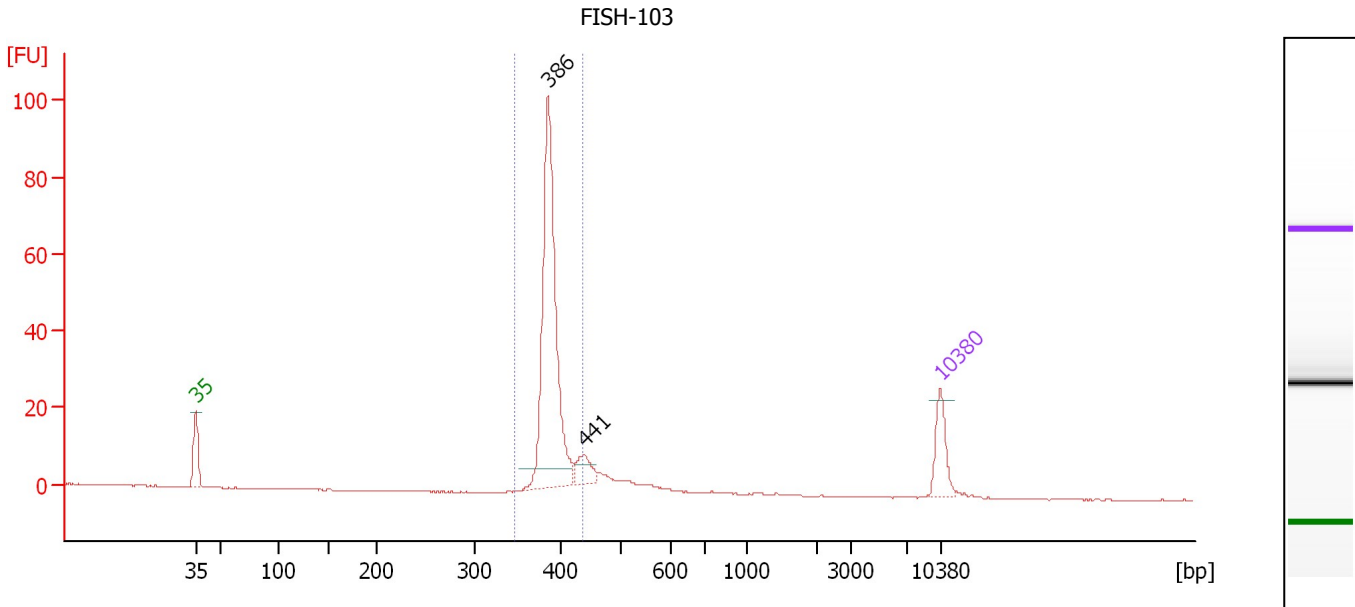
... Region table for sample 9 : PastureR BITS-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
167	2,285	707	2,518.8	724.69	 461.4	98	60.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_005.xad

Created: 7/24/2014 2:49:35 PM
 Modified: 7/24/2014 3:33:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : FISH-103

Number of peaks found: 2 Corr. Area 1: 197.6
 Noise: 0.1

Peak table for sample 10 : FISH-103

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	386	719.11	2,823.3	
3	441	58.39	200.8	
4	10,380	75.00	10.9	Upper Marker

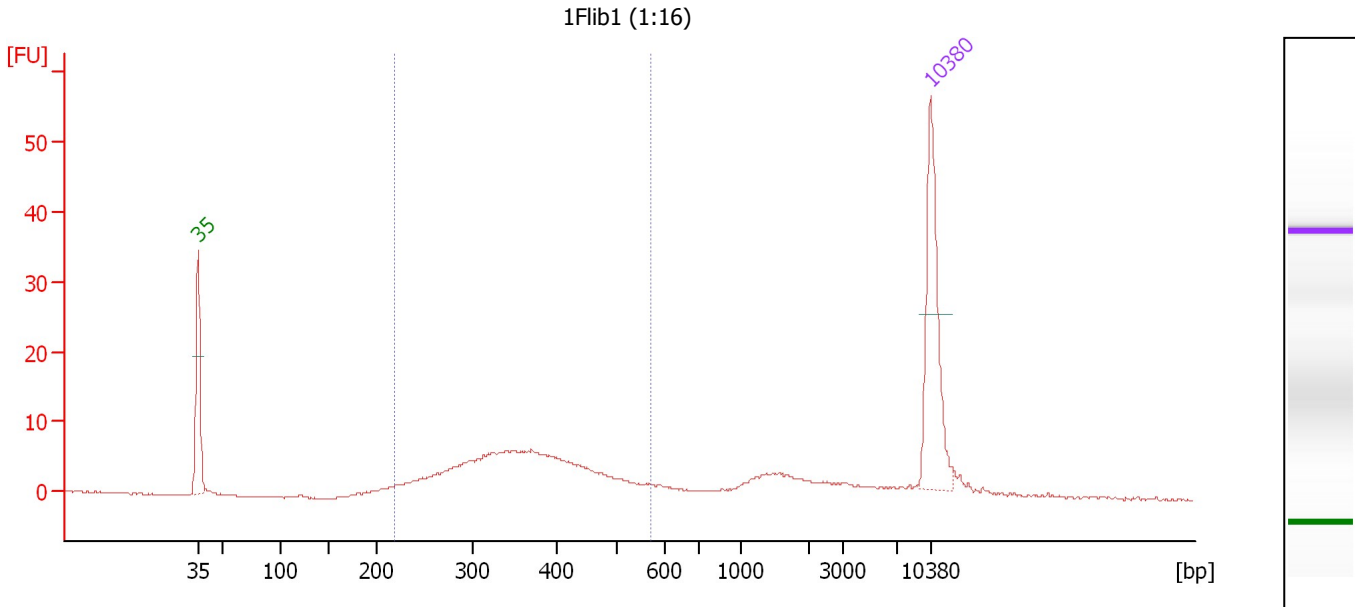
Region table for sample 10 : FISH-103

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
346	438	391	2,975.4	766.68	197.6	84	3.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_005.xad

Created: 7/24/2014 2:49:35 PM
 Modified: 7/24/2014 3:33:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1Flib1 (1:16)

Number of peaks found: 0 Corr. Area 1: 125.8
 Noise: 0.1

Peak table for sample 11 : 1Flib1 (1:16)

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

Region table for sample 11 : 1Flib1 (1:16)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
219	570	365	1,021.8	231.27	125.8	69	21.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_005.xad

Created: 7/24/2014 2:49:35 PM
Modified: 7/24/2014 3:33:17 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_005.xad

Created: 7/24/2014 2:49:35 PM
 Modified: 7/24/2014 3:33:17 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		7/24/2014 3:30:53 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\2014-07-24\2014-07-24_005.xad)		Instrument	Run		7/24/2014 2:49:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/24/2014 2:49:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/24/2014 2:49:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/24/2014 2:49:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/24/2014 2:49:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/24/2014 2:49:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/24/2014 2:49:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1