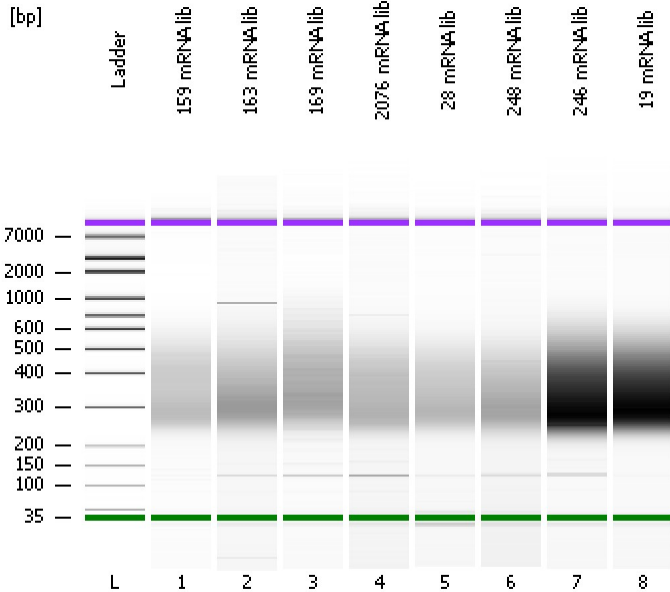


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
Modified: 5/23/2014 2:51:07 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

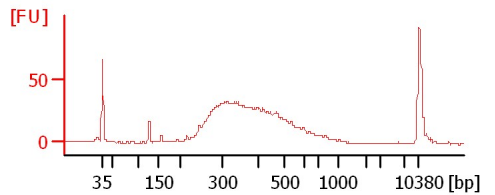
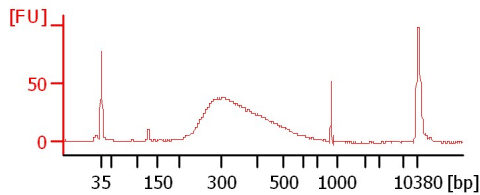
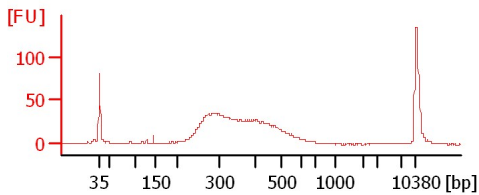
Chip Information:

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

159 mRNA lib

163 mRNA lib

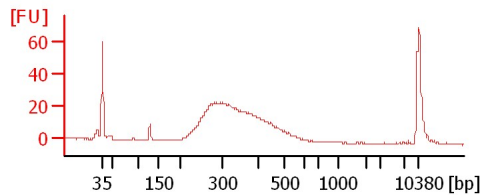
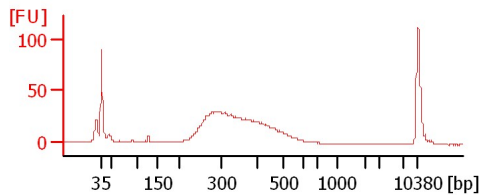
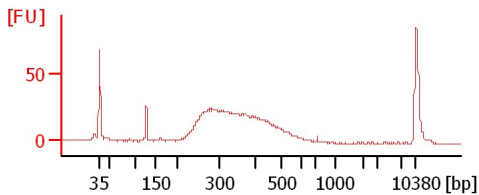
169 mRNA lib



2076 mRNA lib

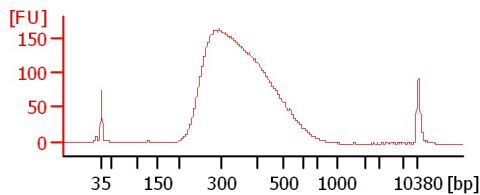
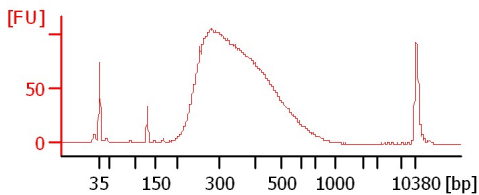
28 mRNA lib

248 mRNA lib



246 mRNA lib

19 mRNA lib



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
 Modified: 5/23/2014 2:51:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
159 mRNA lib		<input type="checkbox"/>	✓			
163 mRNA lib		<input type="checkbox"/>	✓			
169 mRNA lib		<input type="checkbox"/>	✓			
2076 mRNA lib		<input type="checkbox"/>	✓			
28 mRNA lib		<input type="checkbox"/>	✓			
248 mRNA lib		<input type="checkbox"/>	✓			
246 mRNA lib		<input type="checkbox"/>	✓			
19 mRNA lib		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
Modified: 5/23/2014 2:51:07 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

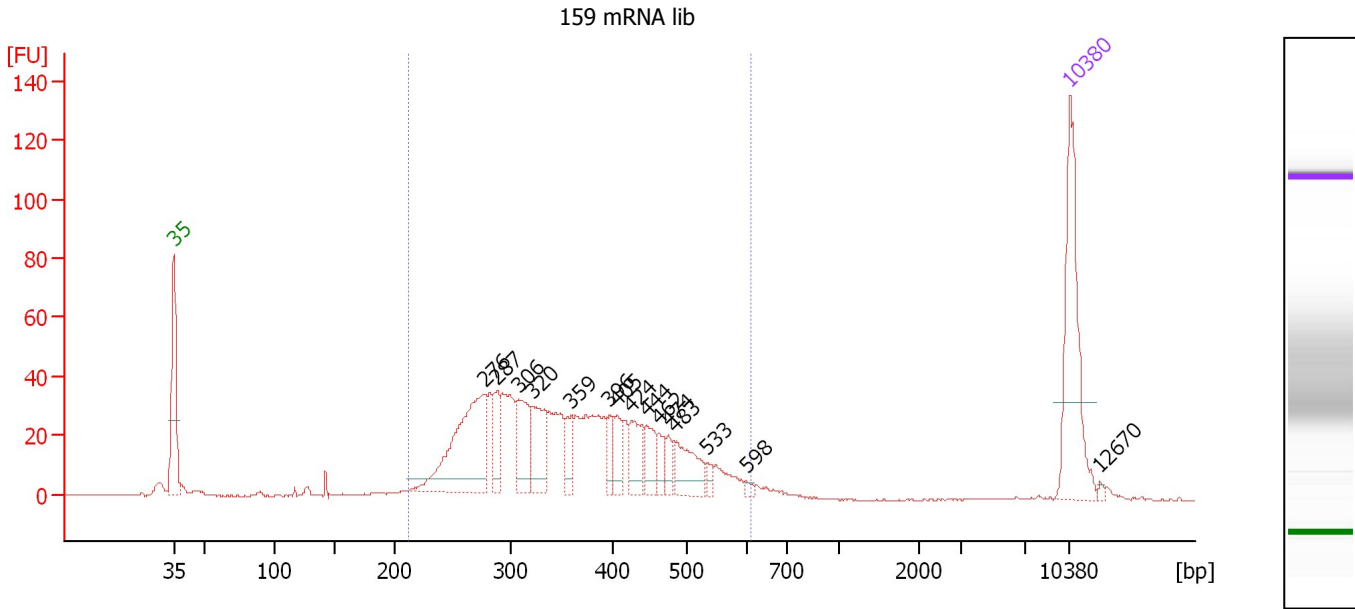
Ladder

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:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
 Modified: 5/23/2014 2:51:07 PM

Electropherogram Summary



Overall Results for sample 1 : 159 mRNA lib

Number of peaks found: 15 Corr. Area 1: 834.9
 Noise: 0.2

Peak table for sample 1 : 159 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	276	134.01	734.8	
3	287	28.00	147.7	
4	306	41.84	207.0	
5	320	45.46	215.3	
6	359	16.90	71.3	
7	396	15.66	59.9	
8	405	17.75	66.5	
9	424	27.93	99.9	
10	444	20.46	69.8	
11	462	13.10	43.0	
12	474	11.61	37.1	
13	483	34.96	109.6	
14	533	5.62	16.0	
15	598	2.88	7.3	
16	10,380	75.00	10.9	Upper Marker
17	12,670	0.00	0.0	

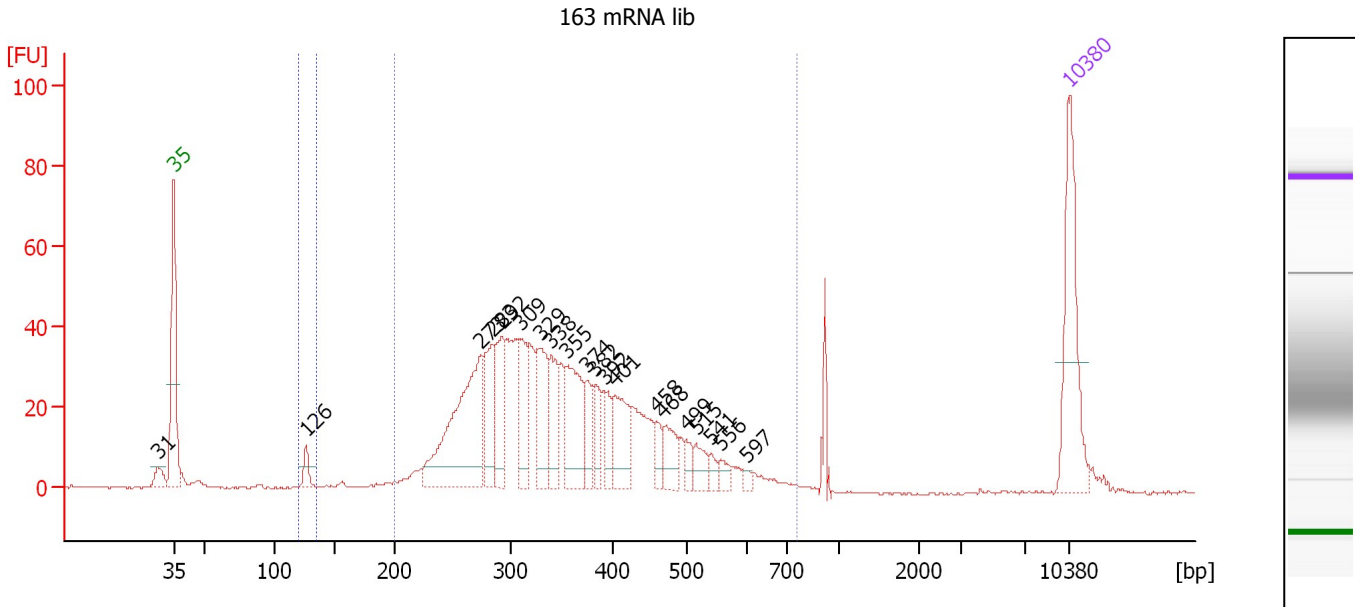
Region table for sample 1 : 159 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
212	606	364	3,106.5	688.19	834.9	93	24.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
 Modified: 5/23/2014 2:51:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 163 mRNA lib

Number of peaks found: 20 Corr. Area 1: 825.7
 Noise: 0.2 Corr. Area 2: 9.8

Peak table for sample 2 : 163 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	126	14.46	173.2	
4	273	164.68	914.5	
5	283	55.91	299.0	
6	292	61.08	317.0	
7	309	46.85	229.5	
8	329	59.96	276.5	
9	338	42.90	192.0	
10	355	68.64	293.0	
11	374	23.65	95.8	
12	382	22.24	88.2	
13	392	20.26	78.3	
14	401	47.29	178.5	
15	458	13.12	43.4	
16	468	25.28	81.8	
17	499	9.90	30.1	
18	515	15.94	46.9	
19	541	6.86	19.2	
20	556	8.31	22.6	
21	597	4.05	10.3	
22	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : 163 mRNA lib


From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
121	135	127	182.8	15.30	9.8	1	1.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
Modified: 5/23/2014 2:51:07 PM

Electropherogram Summary Continued ...

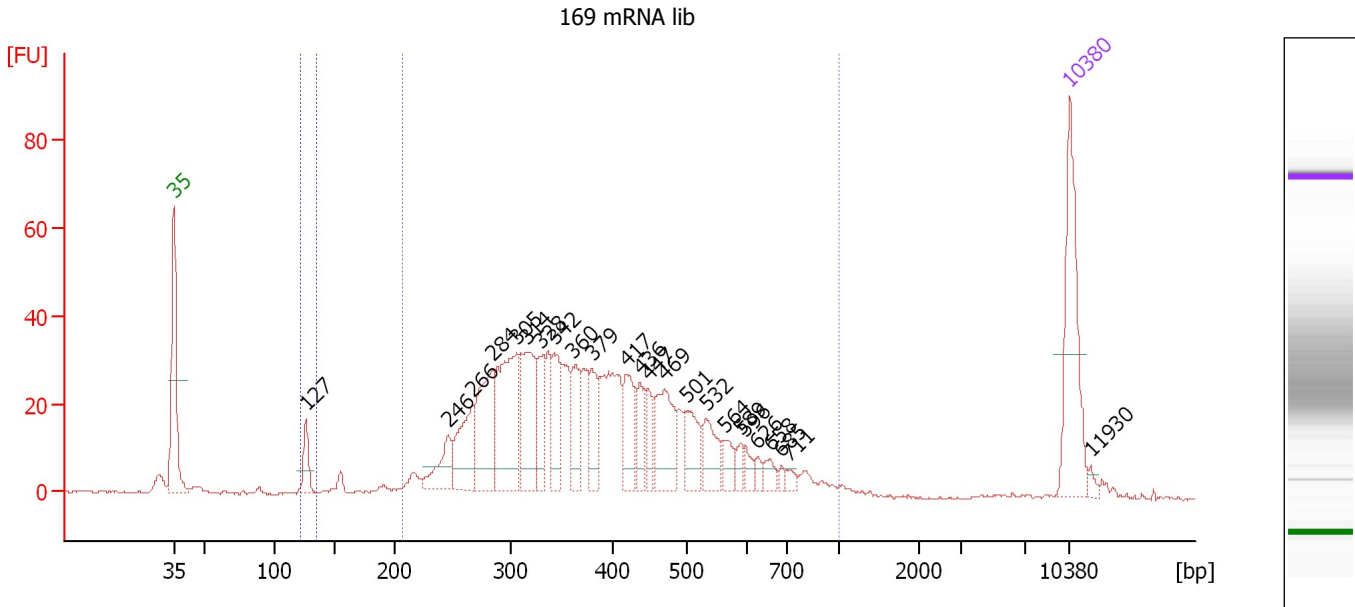
... Region table for sample 2 : 163 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	755	360	4,484.6	980.13	 825.7	92	25.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
 Modified: 5/23/2014 2:51:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 169 mRNA lib

Number of peaks found: 24 Corr. Area 1: 852.6
 Noise: 0.2 Corr. Area 2: 15.3

Peak table for sample 3 : 169 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	26.80	320.7	
3	246	37.11	229.0	
4	266	56.18	319.6	
5	284	85.55	456.8	
6	305	110.96	550.9	
7	314	73.25	353.3	
8	328	34.83	160.9	
9	342	43.84	194.2	
10	360	36.45	153.5	
11	379	33.43	133.6	
12	417	42.60	154.8	
13	436	25.68	89.2	
14	447	20.91	70.8	
15	469	59.64	192.7	
16	501	34.98	105.8	
17	532	31.10	88.6	
18	564	15.19	40.8	
19	589	8.71	22.4	
20	596	8.01	20.3	
21	626	6.07	14.7	
22	658	10.29	23.7	
23	685	4.04	8.9	
24	711	5.80	12.4	
25	10,380	75.00	10.9	Upper Marker
26	11,930	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
Modified: 5/23/2014 2:51:07 PM

Electropherogram Summary Continued ...

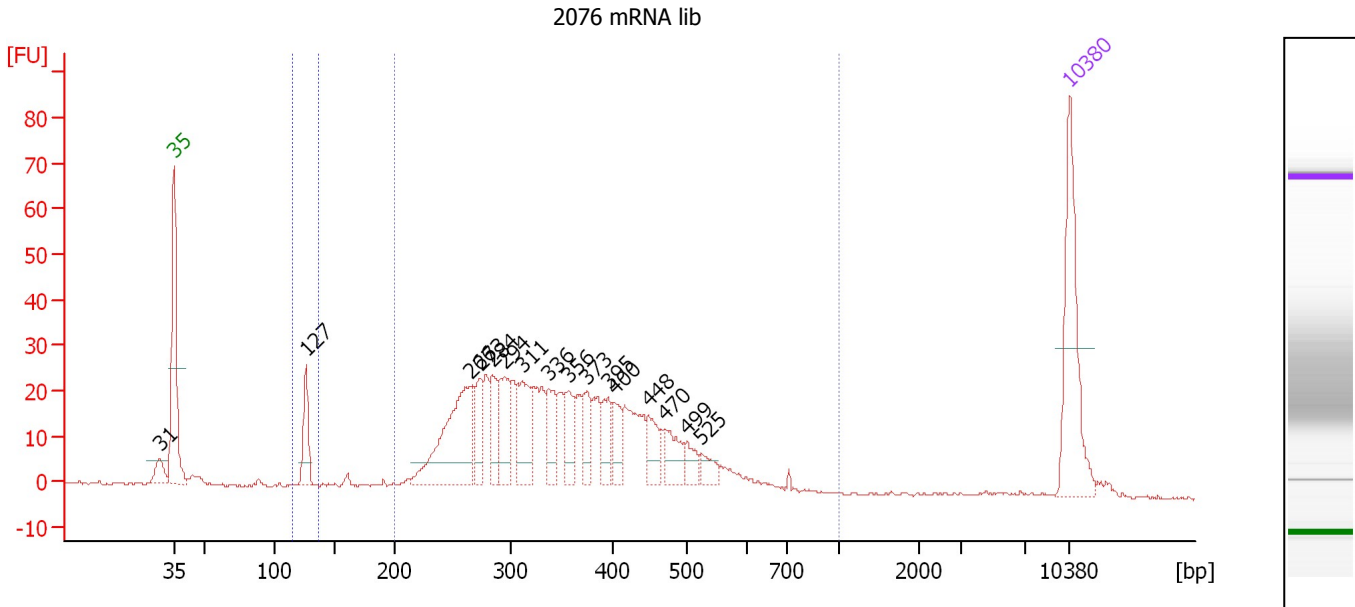
... Region table for sample 3 : 169 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
122	135	127	325.0	27.15	15.3	2	1.6
208	1,000	400	4,777.2	1,123.80	852.6	93	31.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 2076 mRNA lib

Number of peaks found: 16 Corr. Area 1: 603.3
 Noise: 0.3 Corr. Area 2: 22.4

Peak table for sample 4 : 2076 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	127	39.76	476.1	
4	266	131.88	752.1	
5	273	30.36	168.4	
6	284	32.83	175.2	
7	294	47.31	244.1	
8	311	55.29	269.5	
9	336	34.02	153.3	
10	356	28.50	121.4	
11	373	22.40	91.0	
12	395	25.29	97.1	
13	400	22.48	85.1	
14	448	21.79	73.7	
15	470	25.30	81.5	
16	499	13.75	41.7	
17	525	12.41	35.8	
18	10,380	75.00	10.9	Upper Marker

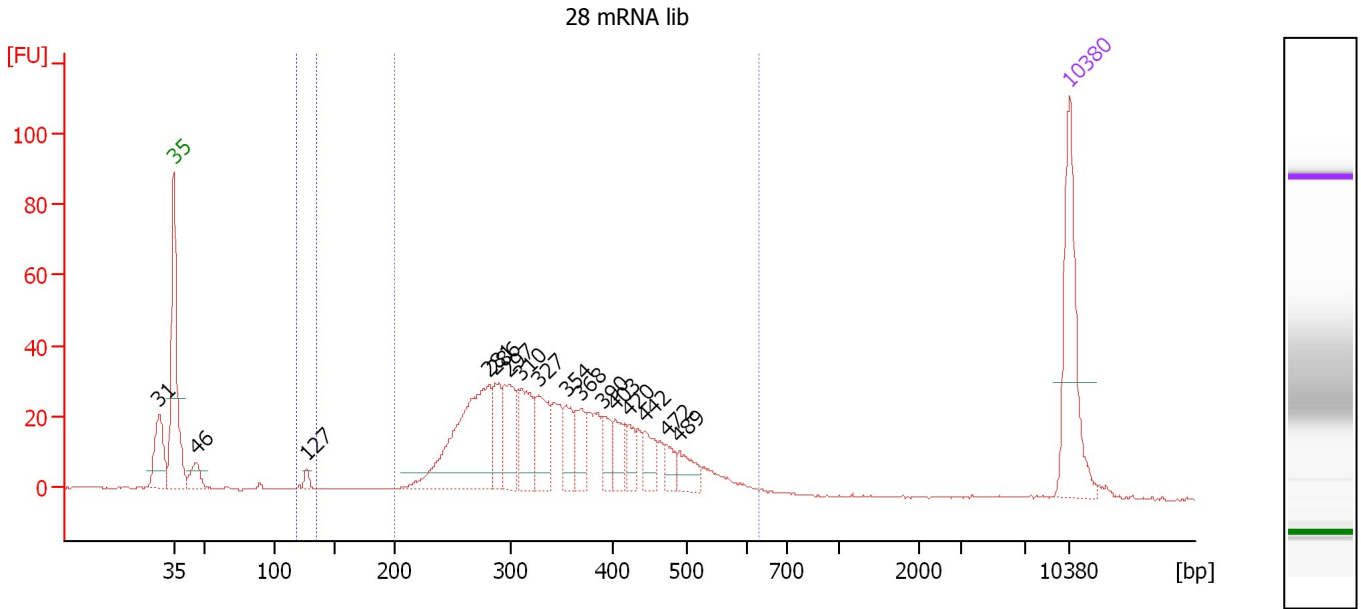
Region table for sample 4 : 2076 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
115	138	126	477.6	39.80	22.4	3	1.5
200	1,000	363	3,715.2	813.96	603.3	92	26.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
 Modified: 5/23/2014 2:51:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 28 mRNA lib

Number of peaks found: 16 Corr. Area 1: 666.5
 Noise: 0.2 Corr. Area 2: 6.2

Peak table for sample 5 : 28 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	46	21.94	721.4	
4	127	6.42	76.6	
5	281	163.97	884.3	
6	286	36.13	191.5	
7	297	49.99	254.7	
8	310	49.52	242.4	
9	327	46.09	213.7	
10	354	28.68	122.8	
11	368	25.61	105.4	
12	390	19.56	76.0	
13	403	24.85	93.5	
14	420	15.54	56.0	
15	442	20.89	71.6	
16	472	13.63	43.7	
17	489	20.62	63.9	
18	10,380	75.00	10.9	Upper Marker

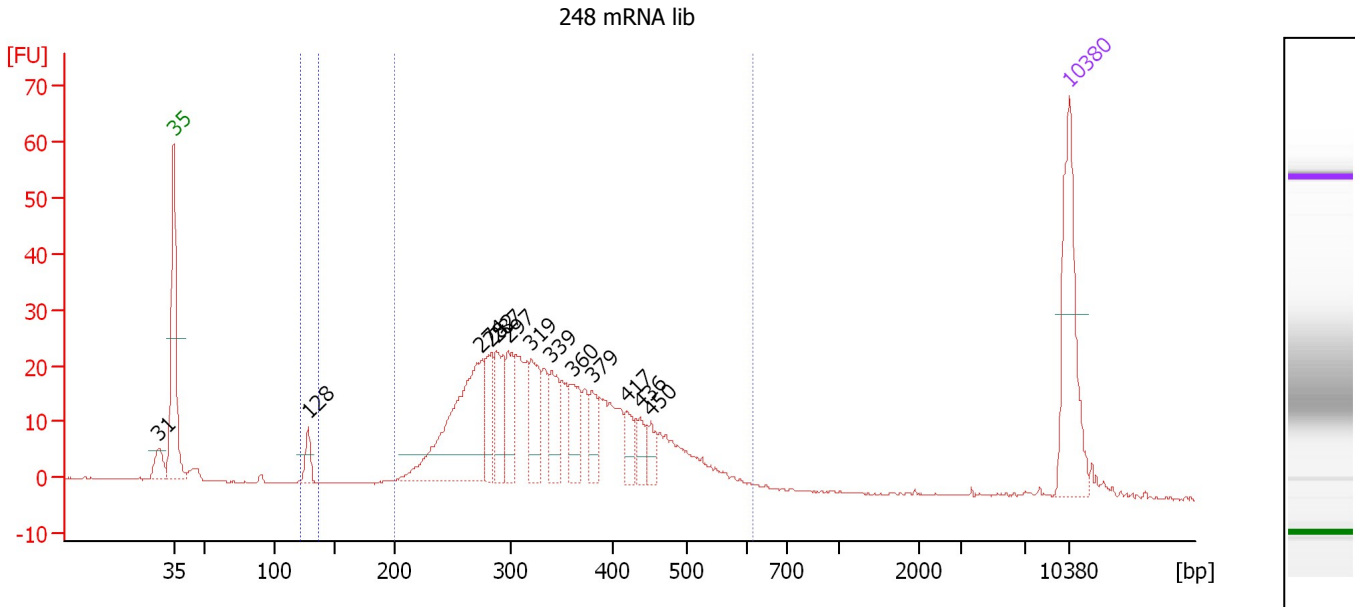
Region table for sample 5 : 28 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
119	136	127	100.6	8.42	6.2	1	2.4
200	627	354	3,171.6	689.43	666.5	88	23.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : 248 mRNA lib

Number of peaks found: 13 Corr. Area 1: 506.2
 Noise: 0.2 Corr. Area 2: 8.8

Peak table for sample 6 : 248 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	128	18.60	219.8	
4	274	166.84	921.4	
5	282	36.61	196.4	
6	287	49.49	260.9	
7	297	38.44	196.2	
8	319	49.57	235.5	
9	339	38.74	173.1	
10	360	35.06	147.6	
11	379	25.17	100.6	
12	417	19.38	70.4	
13	436	17.33	60.2	
14	450	12.16	40.9	
15	10,380	75.00	10.9	Upper Marker

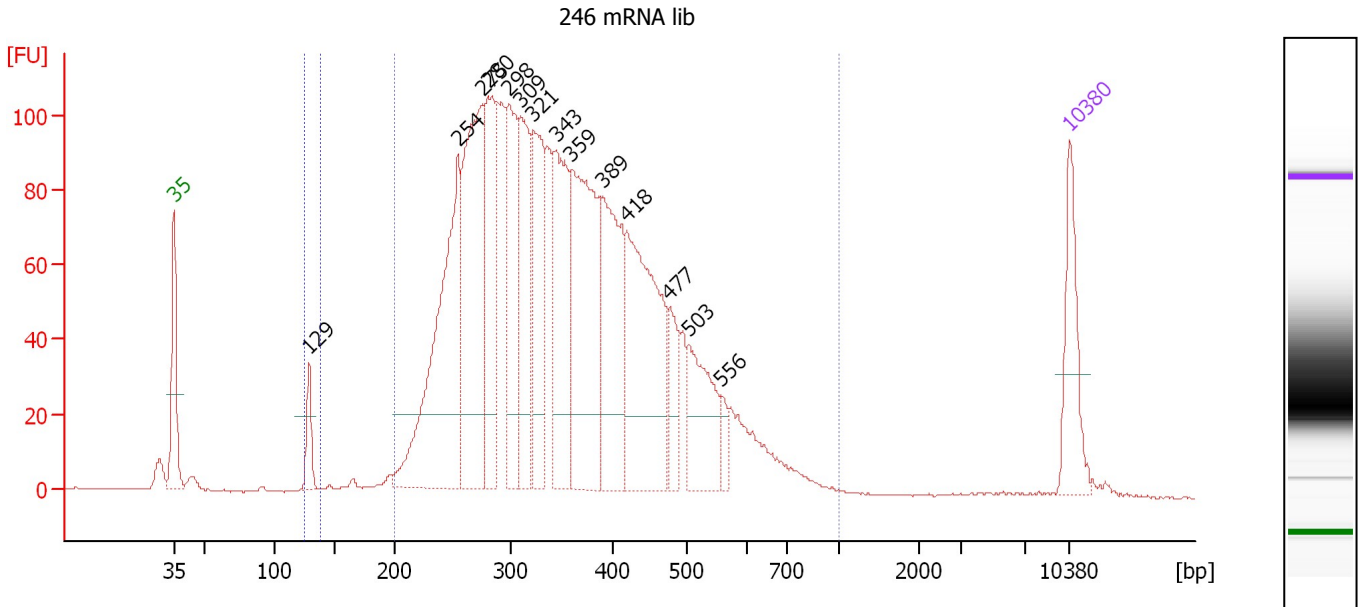
Region table for sample 6 : 248 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
123	137	128	211.3	17.85	8.8	2	1.5
200	616	347	3,710.3	792.48	506.2	93	23.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
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Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : 246 mRNA lib

Height Threshold [FU] : 20

Overall Results for sample 7 : 246 mRNA lib

Number of peaks found: 14 Corr. Area 1: 2,564.9
 Noise: 0.2 Corr. Area 2: 28.1

Peak table for sample 7 : 246 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	47.80	561.8	
3	254	415.52	2,475.8	
4	275	357.50	1,968.7	
5	280	200.33	1,083.1	
6	298	186.18	946.5	
7	309	175.53	861.1	
8	321	180.52	851.6	
9	343	203.82	899.2	
10	359	333.35	1,408.1	
11	389	230.44	897.2	
12	418	298.27	1,080.0	
13	477	59.95	190.6	
14	503	119.88	360.9	
15	556	19.41	52.9	
16	10,380	75.00	10.9	Upper Marker

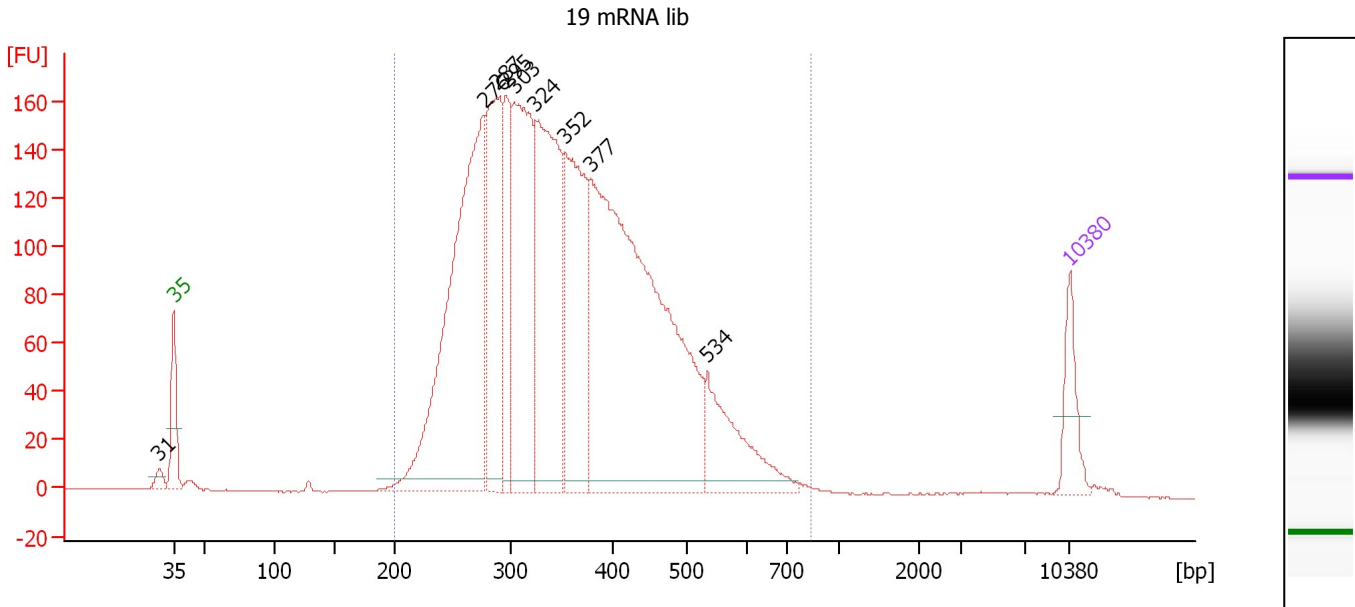
Region table for sample 7 : 246 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
126	139	129	545.4	46.51	28.1	1	1.6
200	1,000	364	14,953.9	3,252.17	2,564.9	96	28.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : 19 mRNA lib

Number of peaks found: 9 Corr. Area 1: 3,756.9
 Noise: 0.3

Peak table for sample 8 : 19 mRNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	276	1,057.19	5,795.4	
4	287	467.53	2,471.4	
5	295	222.92	1,143.6	
6	303	578.55	2,894.2	
7	324	624.94	2,926.7	
8	352	462.91	1,990.0	
9	377	1,410.29	5,673.2	
10	534	225.41	639.8	
11	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : 19 mRNA lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	832	362	22,954.5	5,038.33	3,756.9	98	25.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2014-05-23\2014-05-23_006_15mRNA_lib.xad

Created: 5/23/2014 1:15:12 PM
Modified: 5/23/2014 2:51:07 PM

Gel Image

