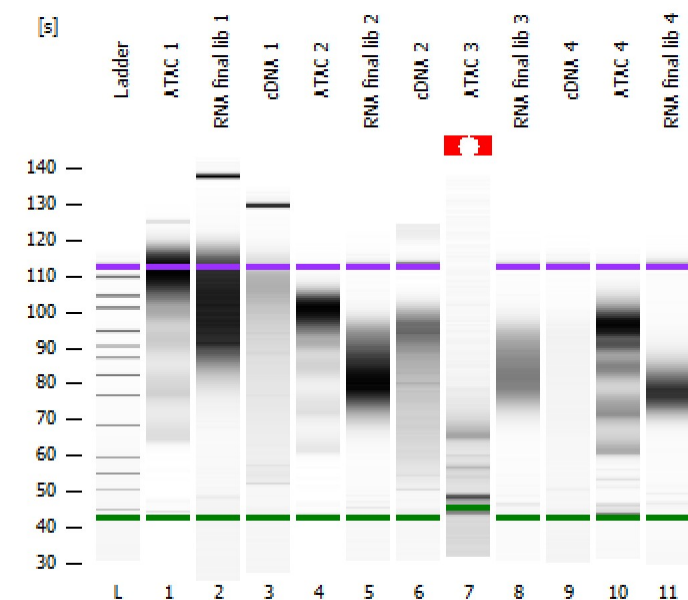


Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

Electrophoresis File Run Summary



Instrument Information:

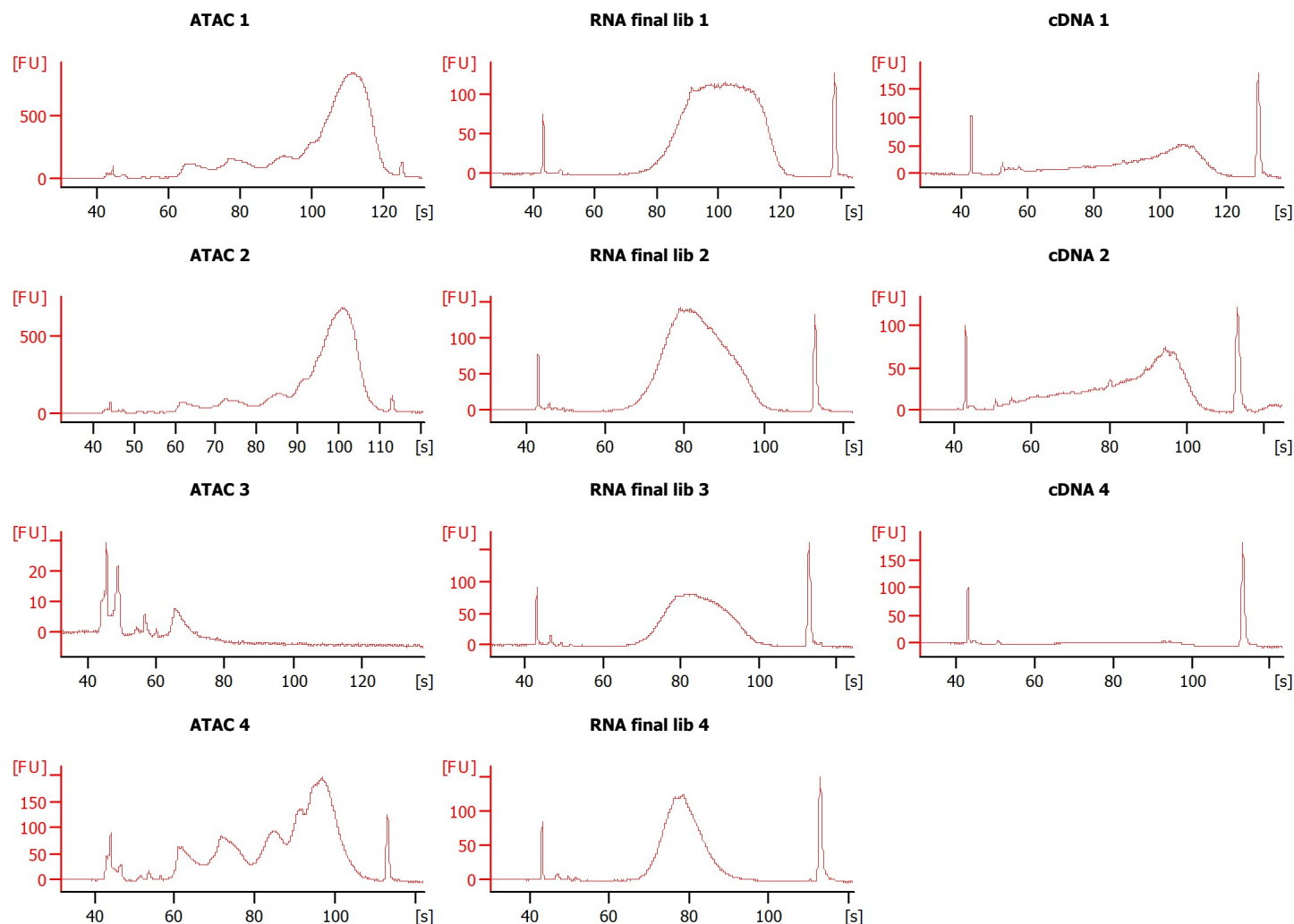
Instrument Name: DEDAE01844
Serial#: DEDAE01844
Firmware: C.01.069
Type: G2939B

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ATAC 1		<input type="checkbox"/>	✓			
RNA final lib 1		<input type="checkbox"/>	✓			
cDNA 1		<input type="checkbox"/>	✓			
ATAC 2		<input type="checkbox"/>	✓			
RNA final lib 2		<input type="checkbox"/>	✓			
cDNA 2		<input type="checkbox"/>	✓			
ATAC 3		<input type="checkbox"/>	✓			
RNA final lib 3		<input type="checkbox"/>	✓			
cDNA 4		<input type="checkbox"/>	✓			
ATAC 4		<input type="checkbox"/>	✓			
RNA final lib 4		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
Chip Lot #			Reagent Kit Lot #			

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

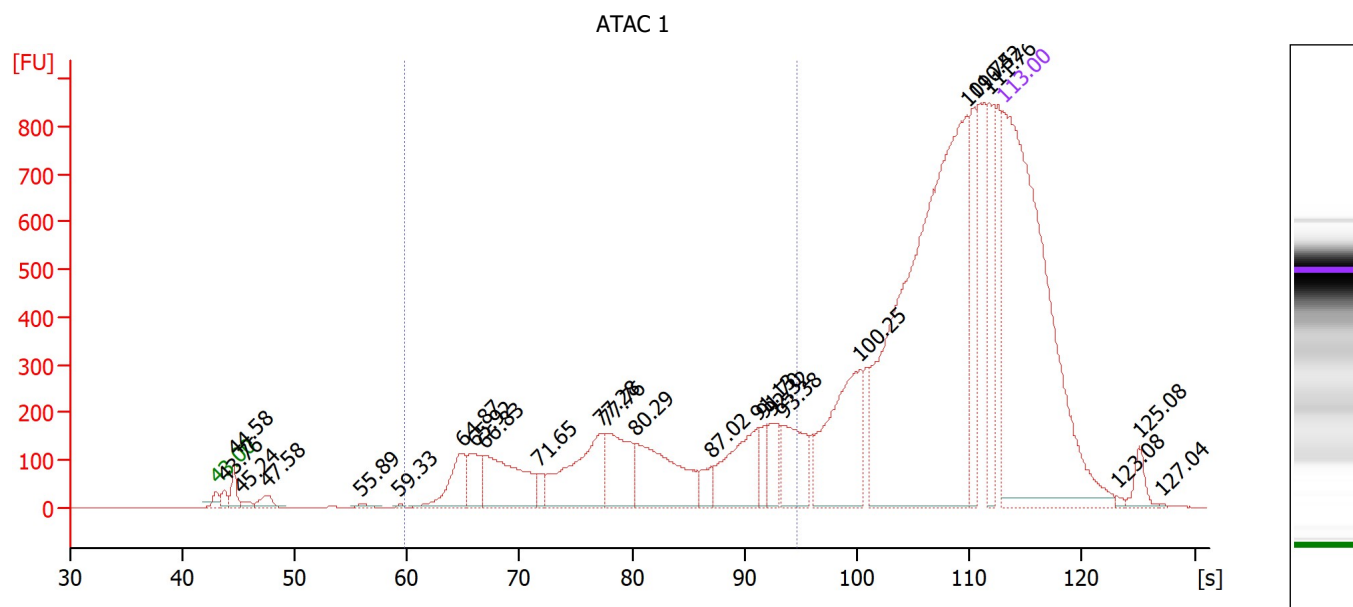
Ladder

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: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary



Overall Results for sample 1 : ATAC 1

Number of peaks found: 25 Corr. Area 1: 4,430.1
 Noise: 0.3

Peak table for sample 1 : ATAC 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	2.54	96.0	
3	45	5.02	167.8	
4	50	1.36	41.6	
5	71	3.40	72.1	
6	157	0.91	8.8	
7	195	0.35	2.7	
8	257	11.99	70.6	
9	269	7.94	44.7	
10	279	23.51	127.5	
11	337	2.05	9.2	
12	408	21.96	81.5	
13	416	15.59	56.7	
14	460	22.71	74.8	
15	594	3.43	8.8	
16	741	16.54	33.8	
17	783	3.57	6.9	
18	828	6.08	11.1	
19	905	11.73	19.6	
20	1,854	23.26	19.0	
21	6,995	108.06	23.4	
22	7,690	11.83	2.3	
23	9,085	12.37	2.1	
24	10,380	75.00	10.9	Upper Marker
25	20,889	0.00	0.0	
26	22,981	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...**... Peak table for sample 1 : ATAC 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	25,023	0.00	0.0	

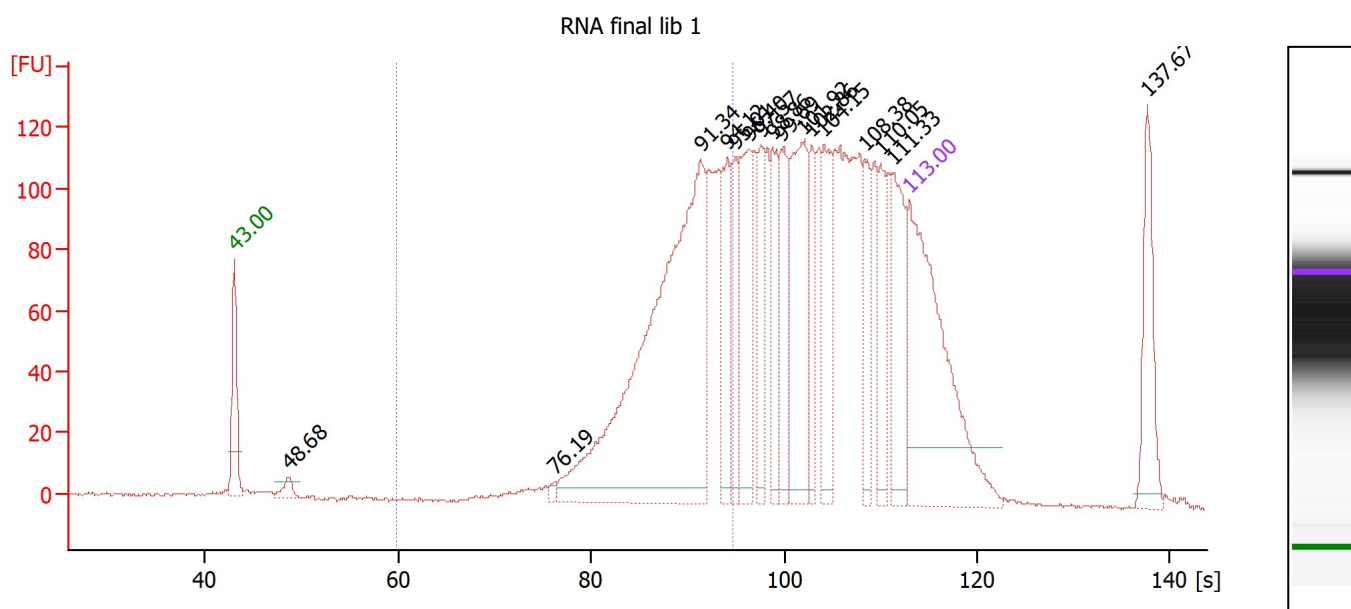
Region table for sample 1 : ATAC 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	4,430.1	34	513	39.8	140.64	518.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA final lib 1

Number of peaks found: 16 Corr. Area 1: 1,078.7
 Noise: 0.6

Peak table for sample 2 : RNA final lib 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	5.52	102.3	
3	392	1.67	6.4	
4	756	201.59	403.9	
5	959	27.87	44.0	
6	1,051	18.71	27.0	
7	1,265	36.79	44.1	
8	1,444	19.44	20.4	
9	1,640	21.22	19.6	
10	1,768	22.04	18.9	
11	2,216	46.20	31.6	
12	2,500	16.13	9.8	
13	2,886	23.31	12.2	
14	5,944	17.50	4.5	
15	7,301	19.20	4.0	
16	8,637	29.86	5.2	
17	10,380	75.00	10.9	Upper Marker
18	36,113	0.00	0.0	

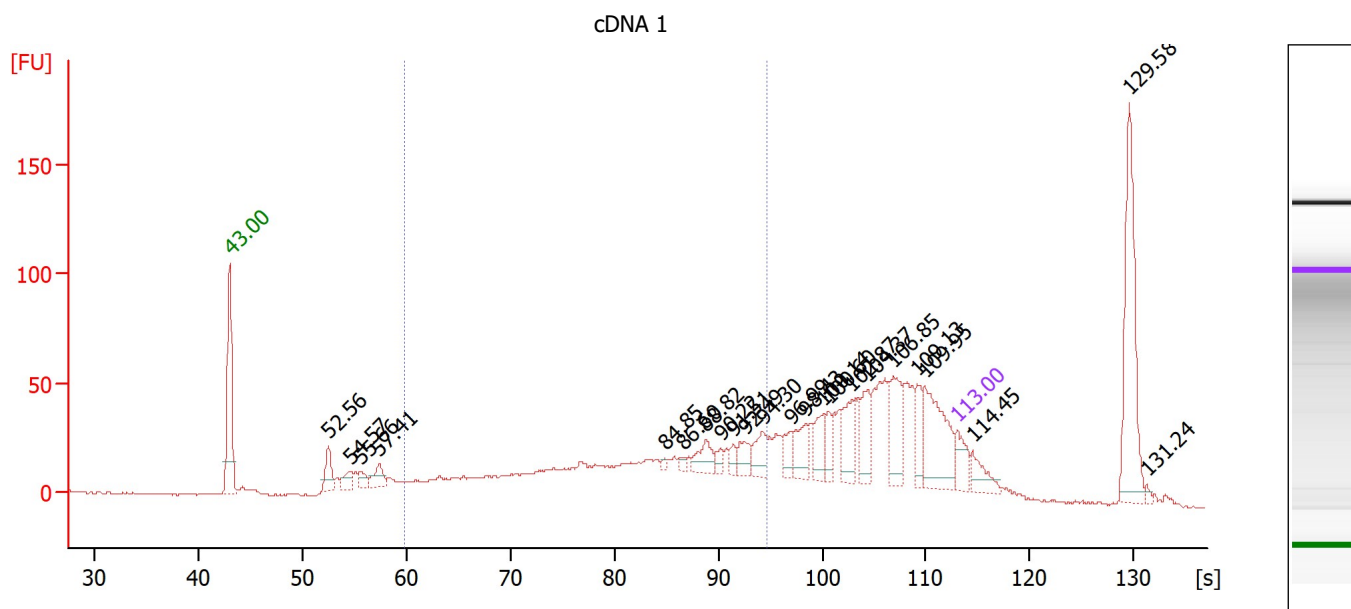
Region table for sample 2 : RNA final lib 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,078.7	36	691	23.0	291.43	687.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...



Overall Results for sample 3 : cDNA 1

Number of peaks found: 23 Corr. Area 1: 636.1
 Noise: 0.4

Peak table for sample 3 : cDNA 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	132.34	1,658.0	
3	143	74.62	790.7	
4	155	56.03	548.3	
5	174	84.11	732.1	
6	548	12.28	34.0	
7	585	16.99	44.0	
8	646	88.67	207.9	
9	689	32.52	71.5	
10	769	32.94	64.9	
11	840	67.13	121.0	
12	972	87.04	135.6	
13	1,354	50.32	56.3	
14	1,575	99.00	95.2	
15	1,837	80.02	66.0	
16	1,908	55.58	44.1	
17	2,503	114.84	69.5	
18	2,954	119.51	61.3	
19	4,778	170.36	54.0	
20	6,515	83.85	19.5	
21	7,201	280.67	59.1	
22	10,380	75.00	10.9	Upper Marker
23	11,889	0.00	0.0	
24	27,678	0.00	0.0	
25	29,402	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

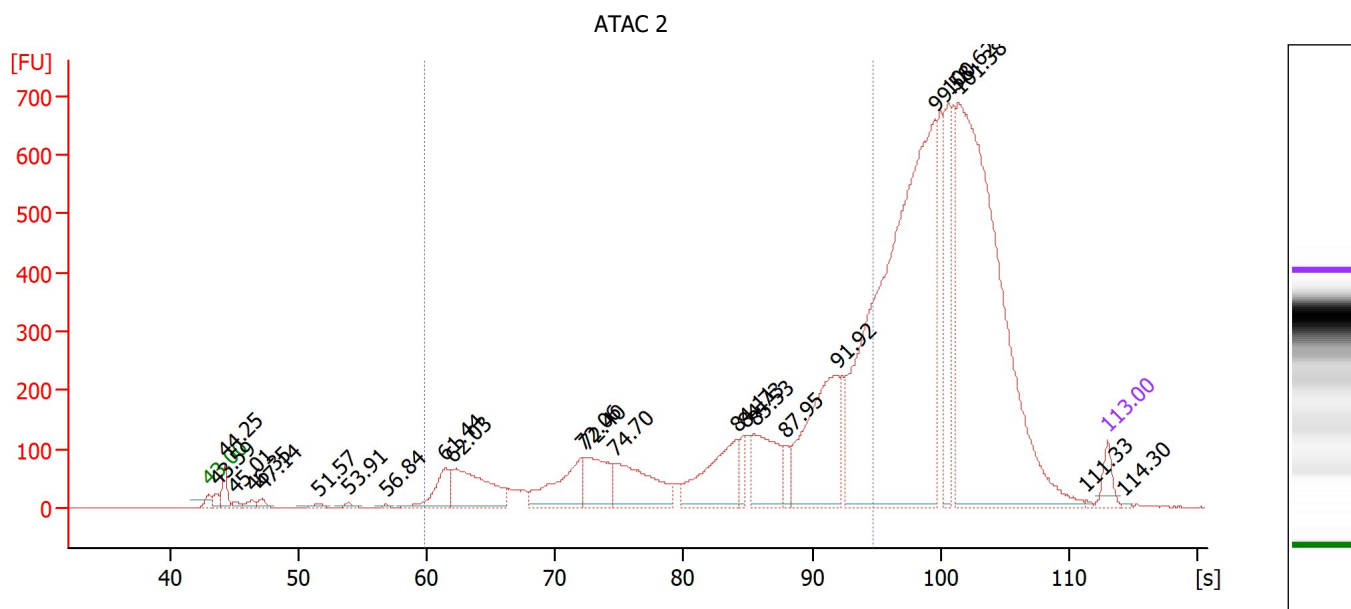
Electropherogram Summary Continued ...**... Region table for sample 3 :****cDNA 1**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Co lor
200	1,000	636.1	37	530	39.2	2,423.10	8,813.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...



Overall Results for sample 4 : ATAC 2

Number of peaks found: 23
 Noise: 0.4

Corr. Area 1: 4,132.4

Peak table for sample 4 : ATAC 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	63.27	2,467.9	
3	43	150.67	5,280.2	
4	48	32.80	1,031.5	
5	60	44.36	1,122.1	
6	67	46.20	1,039.9	
7	110	30.61	421.0	
8	136	24.36	271.8	
9	168	10.68	96.4	
10	219	244.80	1,696.4	
11	225	560.01	3,767.3	
12	342	390.23	1,730.8	
13	346	349.82	1,533.1	
14	374	480.50	1,946.7	
15	532	482.86	1,375.2	
16	545	92.87	258.1	
17	562	388.96	1,048.6	
18	619	80.30	196.4	
19	799	843.80	1,600.0	
20	1,751	2,979.78	2,578.6	
21	1,911	396.73	314.5	
22	2,052	2,531.28	1,868.9	
23	8,635	5.33	0.9	Upper Marker
24	10,380	75.00	10.9	
25	11,732	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

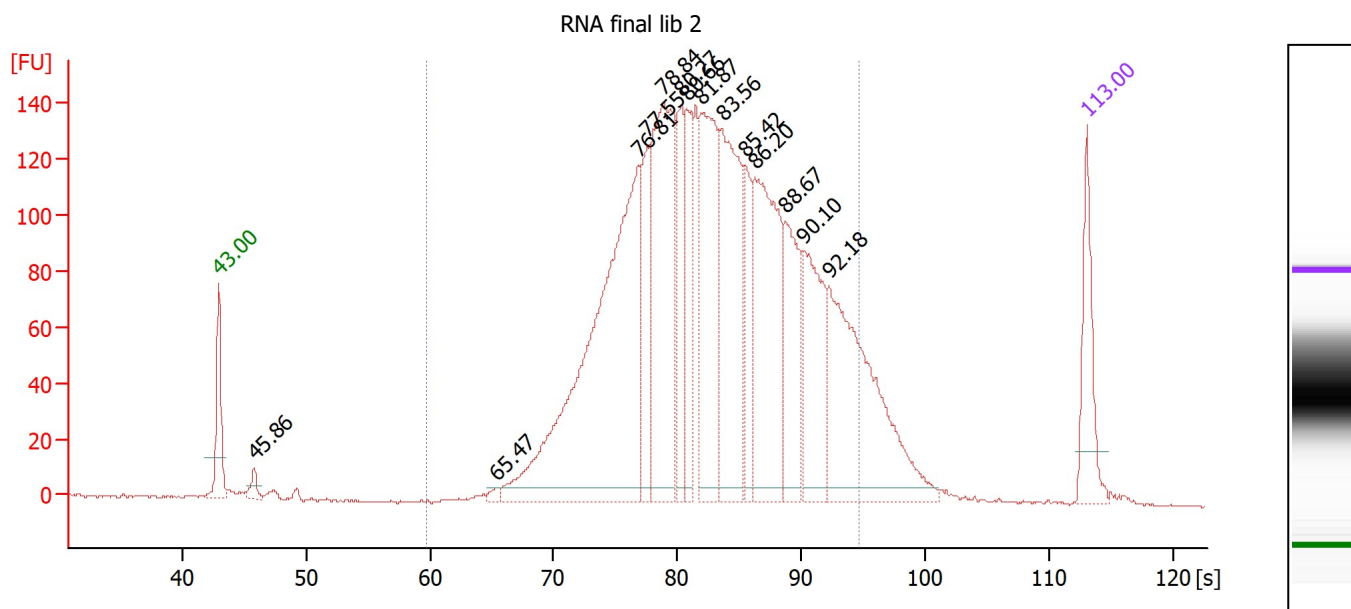
Electropherogram Summary Continued ...**... Region table for sample 4 :****ATAC 2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	4,132.4	37	586	39.1	4,876.58	16,872.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...



Overall Results for sample 5 : RNA final lib 2

Number of peaks found: 14 Corr. Area 1: 3,165.0
 Noise: 0.5

Peak table for sample 5 : RNA final lib 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	22.57	618.0	
3	264	9.22	52.9	
4	400	748.71	2,836.6	
5	413	123.60	453.9	
6	435	370.71	1,290.9	
7	460	125.89	414.8	
8	467	117.06	380.1	
9	488	278.84	866.5	
10	521	294.37	856.8	
11	560	93.67	253.5	
12	576	301.84	793.6	
13	641	147.51	348.4	
14	686	177.06	391.3	
15	817	345.43	640.2	
16	10,380	75.00	10.9	Upper Marker

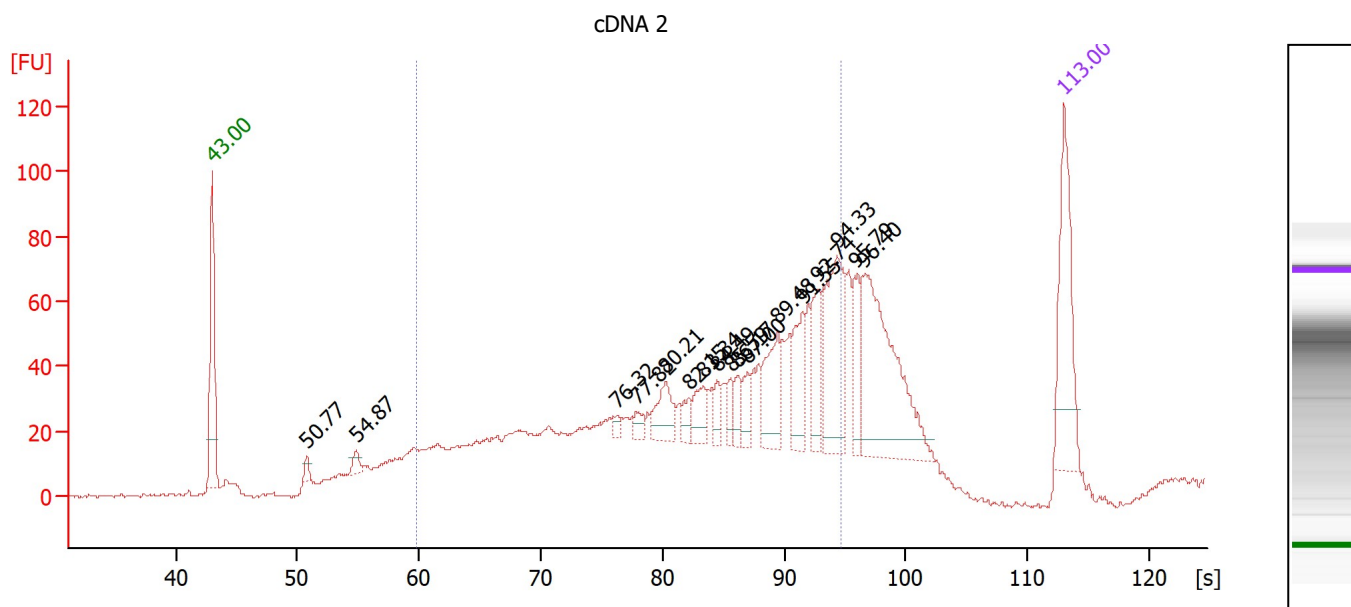
Region table for sample 5 : RNA final lib 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,165.0	94	526	28.7	3,112.86	9,924.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...



Overall Results for sample 6 : cDNA 2

Number of peaks found: 17 Corr. Area 1: 1,256.3
 Noise: 0.6

Peak table for sample 6 : cDNA 2

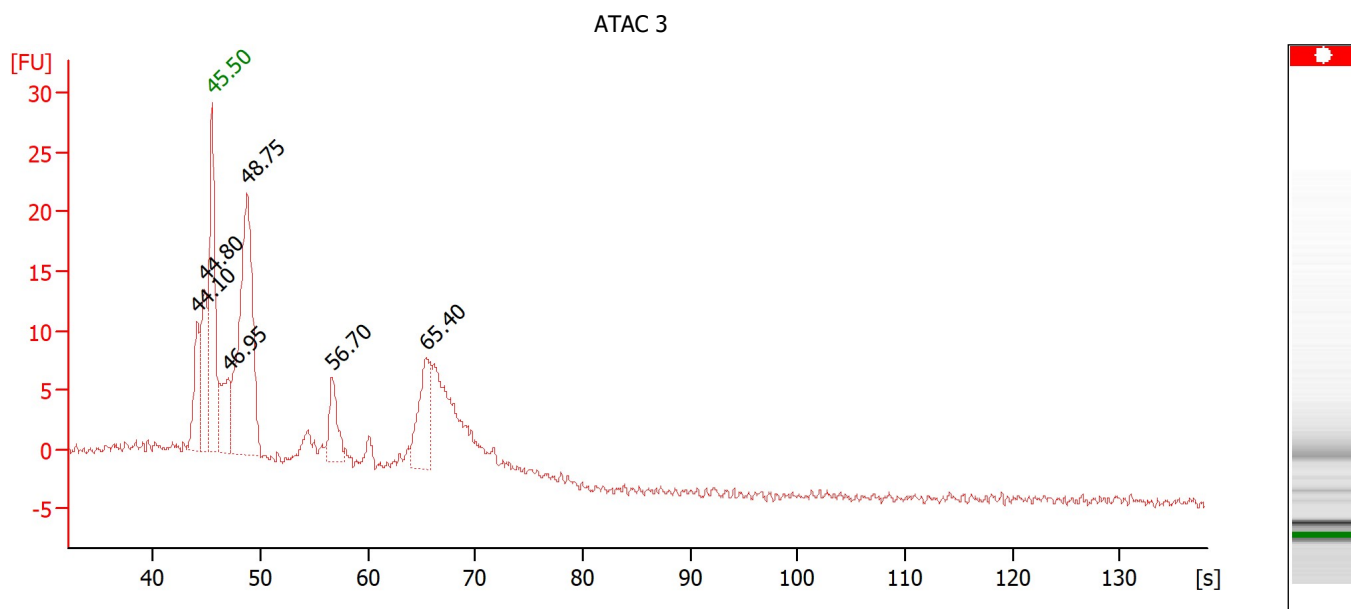
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	101	8.98	134.2	
3	146	10.80	111.9	
4	394	5.71	22.0	
5	417	9.64	35.0	
6	459	33.06	109.2	
7	492	12.79	39.4	
8	516	22.99	67.5	
9	540	11.86	33.3	
10	563	12.12	32.6	
11	575	13.63	35.9	
12	593	15.71	40.1	
13	666	50.27	114.3	
14	772	42.13	82.7	
15	859	37.19	65.6	
16	975	89.56	139.2	
17	1,170	31.57	40.9	
18	1,265	144.39	173.0	
19	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : cDNA 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,256.3	70	552	39.5	1,183.29	4,236.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...**Overall Results for sample 7 : ATAC 3**

Number of peaks found: 6 Noise: 0.4

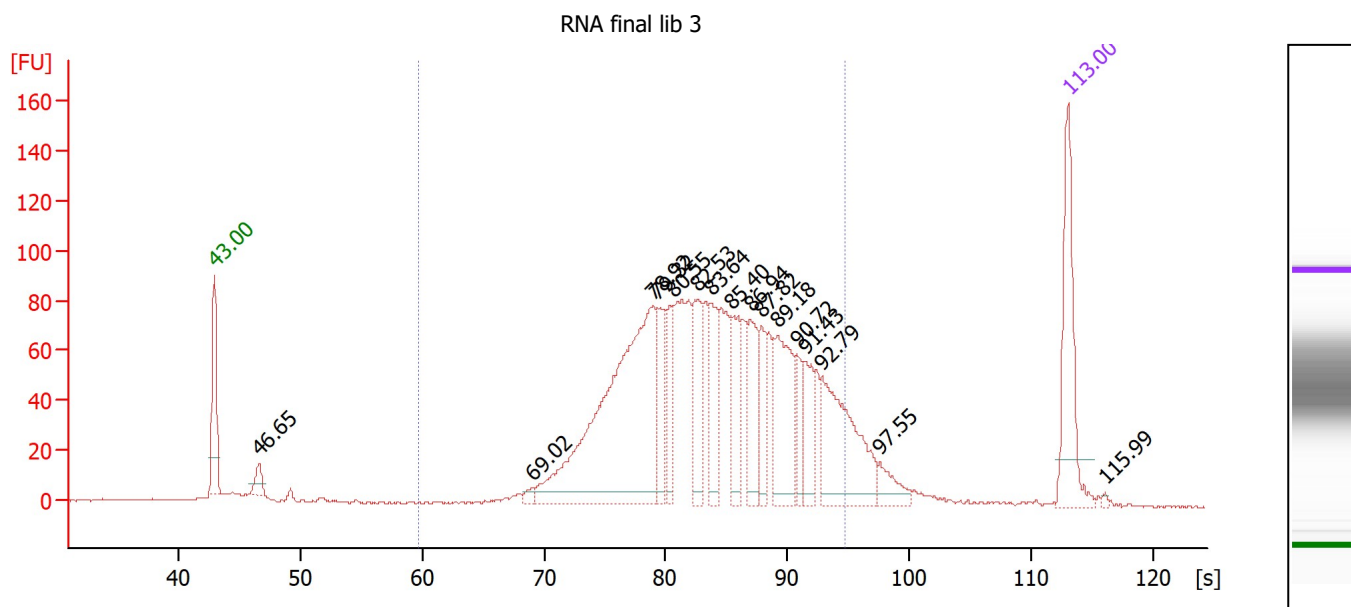
Peak table for sample 7 : ATAC 3

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	Lower Marker
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...



Overall Results for sample 8 : RNA final lib 3

Number of peaks found: 16 Corr. Area 1: 1,807.3
 Noise: 0.3

Peak table for sample 8 : RNA final lib 3

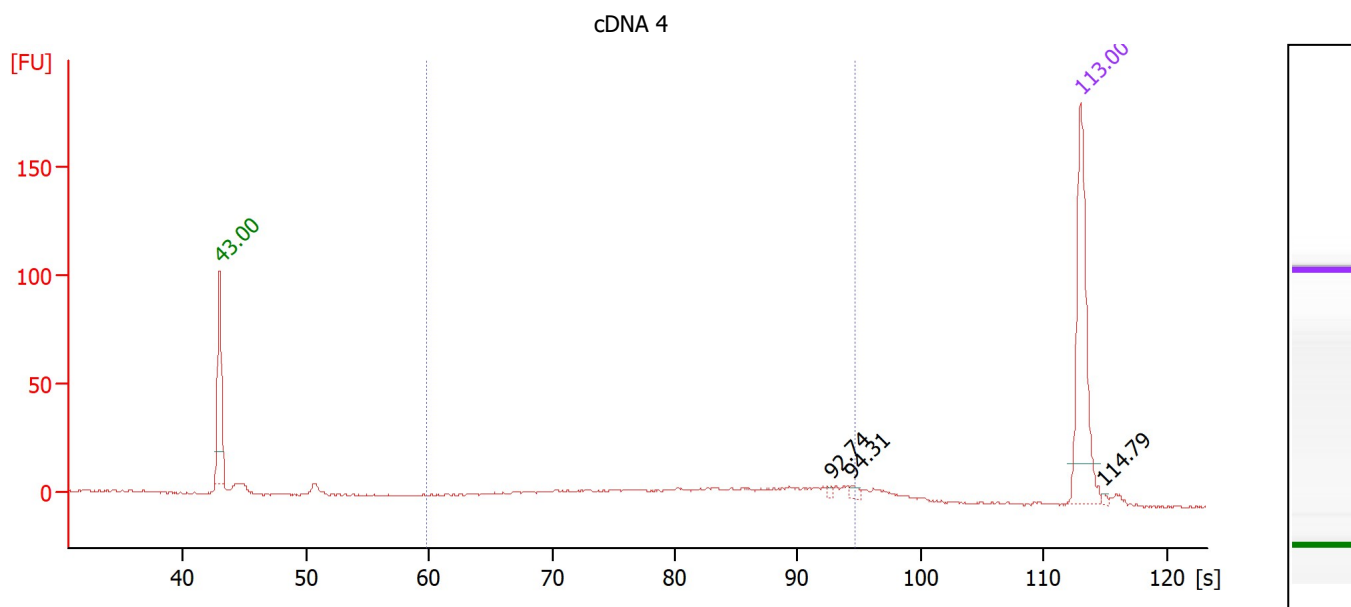
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	63	20.37	491.8	
3	304	6.48	32.3	
4	437	384.75	1,335.5	
5	443	44.23	151.1	
6	465	47.25	154.1	
7	499	67.80	205.9	
8	522	57.51	166.9	
9	559	54.01	146.3	
10	592	52.43	134.2	
11	615	35.14	86.5	
12	657	92.53	213.3	
13	711	29.52	62.9	
14	763	38.90	77.3	
15	862	122.55	215.3	
16	1,440	19.03	20.0	
17	10,380	75.00	10.9	Upper Marker
18	13,503	0.00	0.0	

Region table for sample 8 : RNA final lib 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,807.3	90	548	27.8	1,325.70	4,036.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...**Overall Results for sample 9 : cDNA 4**

Number of peaks found: 3 Corr. Area 1: 168.9
 Noise: 0.4

Peak table for sample 9 : cDNA 4

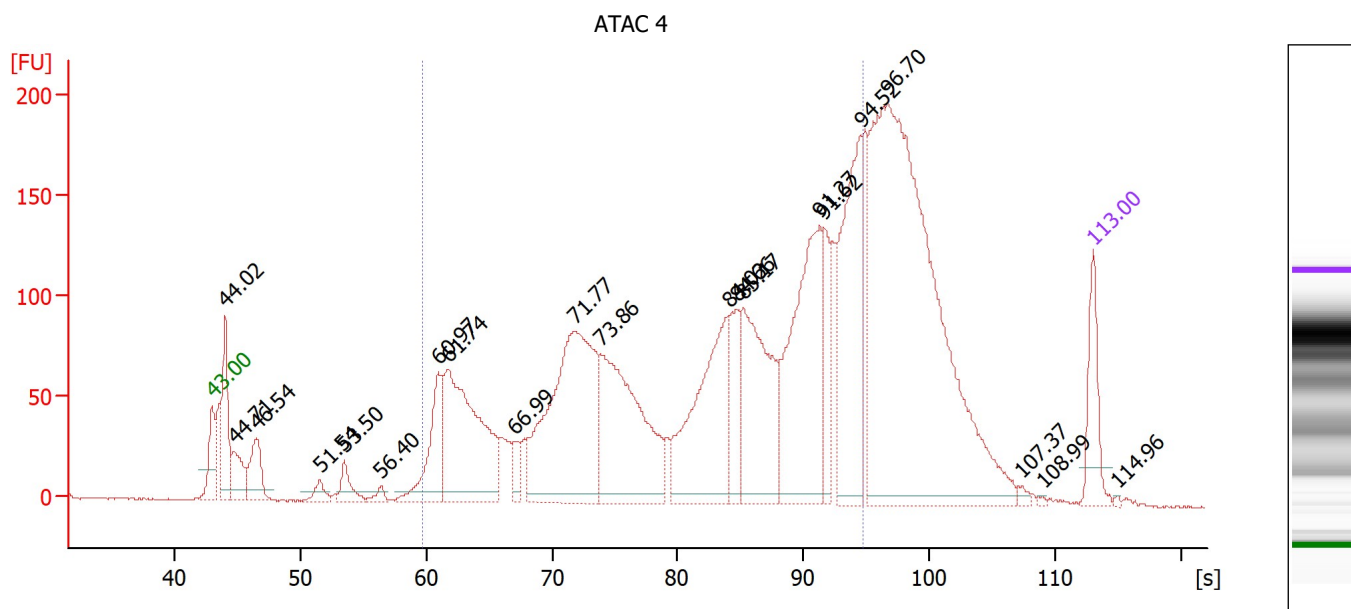
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	858	2.10	3.7	
3	973	3.47	5.4	
4	10,380	75.00	10.9	Upper Marker
5	12,248	0.00	0.0	

Region table for sample 9 : cDNA 4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	168.9	72	544	36.1	115.41	391.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...**Overall Results for sample 10 : ATAC 4**

Number of peaks found: 21 Corr. Area 1: 3,250.4
 Noise: 0.4

Peak table for sample 10 : ATAC 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	184.29	6,692.1	
3	46	91.80	3,010.2	
4	62	117.51	2,883.9	
5	110	30.06	415.0	
6	131	51.92	599.4	
7	163	16.06	149.3	
8	213	172.41	1,224.5	
9	222	474.79	3,240.7	
10	281	34.15	184.1	
11	338	601.53	2,696.4	
12	364	428.51	1,785.2	
13	530	347.54	993.3	
14	544	100.58	280.3	
15	554	308.67	843.5	
16	752	406.41	819.3	
17	777	87.43	170.6	
18	988	311.01	476.8	
19	1,309	1,091.77	1,263.7	
20	5,171	6.96	2.0	
21	6,410	2.55	0.6	
22	10,380	75.00	10.9	Upper Marker
23	12,428	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

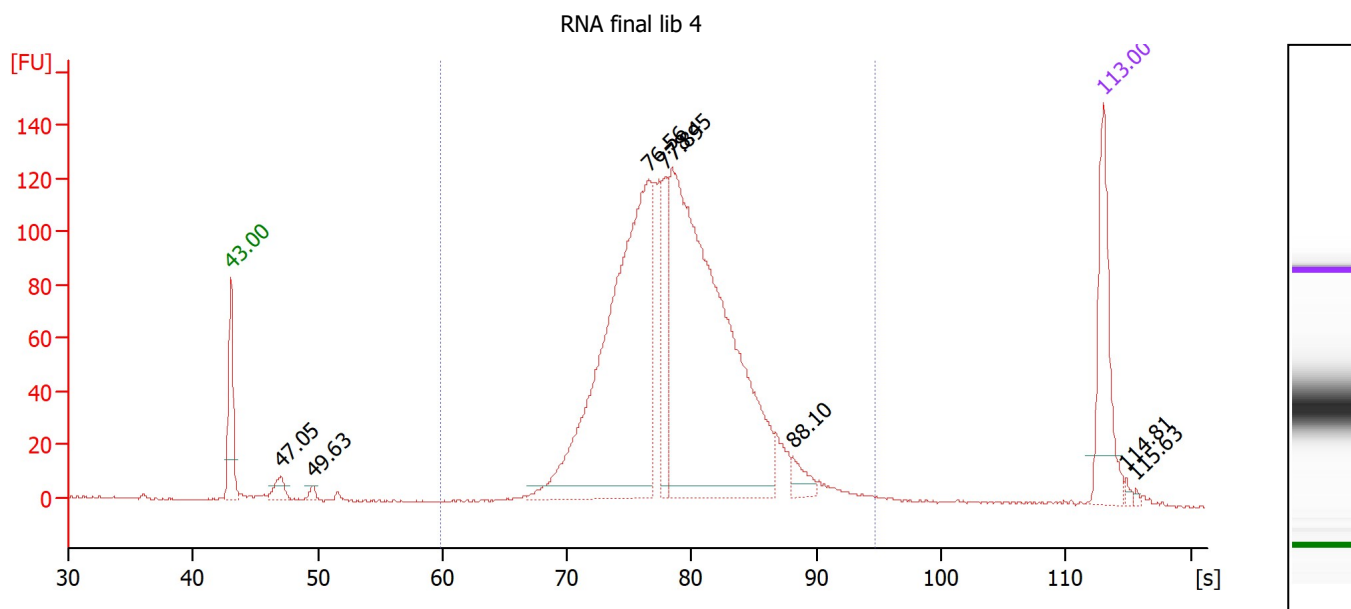
Electropherogram Summary Continued ...**... Region table for sample 10 :****ATAC 4**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	3,250.4	64	539	41.6	3,417.32	12,814.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
 Modified: 23/03/2021 14:45:47

Electropherogram Summary Continued ...



Overall Results for sample 11 : RNA final lib 4

Number of peaks found: 8 Corr. Area 1: 1,825.8
 Noise: 0.5

Peak table for sample 11 : RNA final lib 4

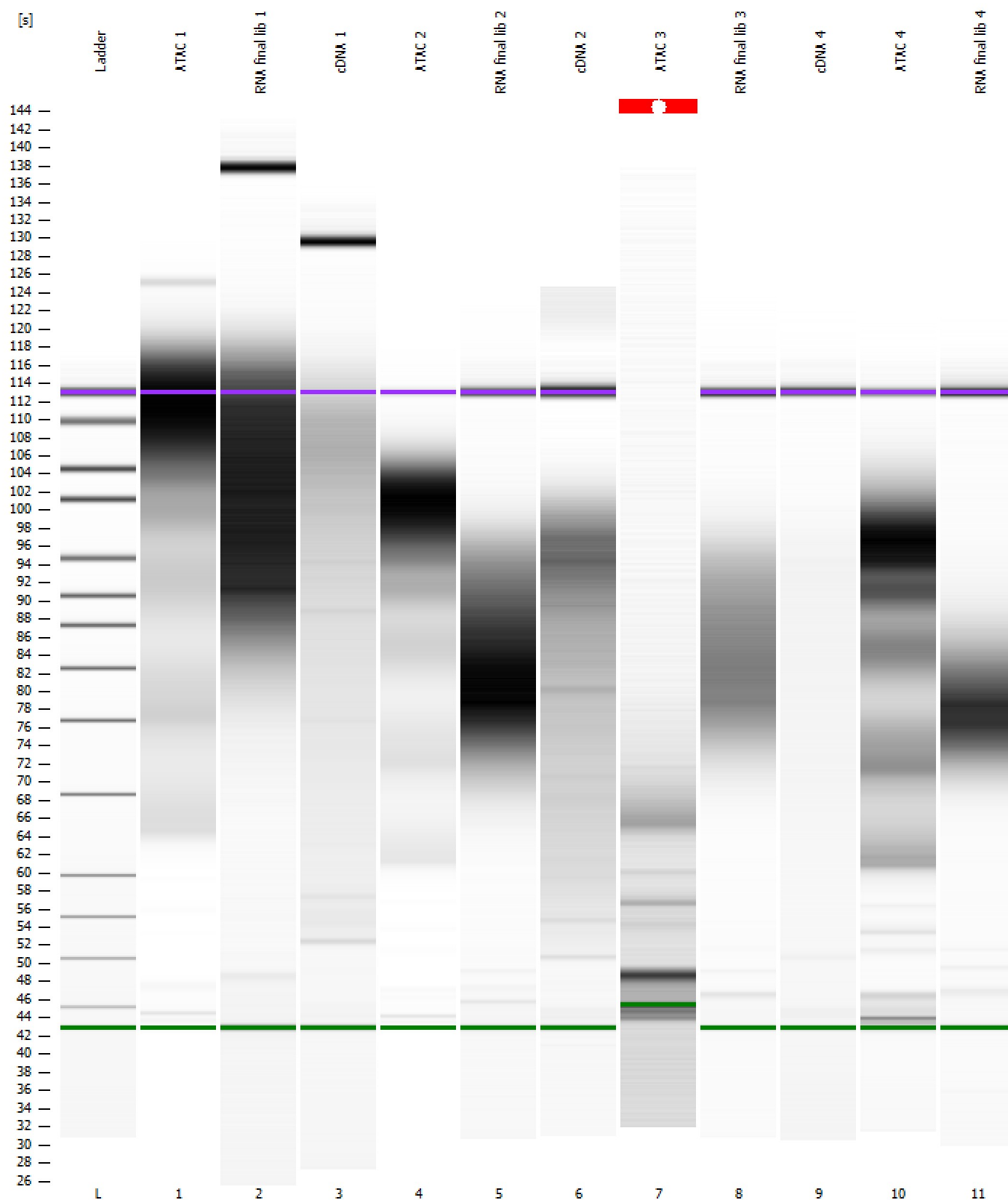
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	20.09	458.0	
3	91	6.21	104.0	
4	397	504.49	1,926.3	
5	419	71.83	260.0	Upper Marker
6	428	616.52	2,180.8	
7	624	15.79	38.4	
8	10,380	75.00	10.9	
9	12,267	0.00	0.0	
10	13,121	0.00	0.0	

Region table for sample 11 : RNA final lib 4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,825.8	96	442	19.8	1,376.93	4,934.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DEDAE01844_2021-03-23_13-15-30.xad

Created: 23/03/2021 13:15:30
Modified: 23/03/2021 14:45:47

Curves

Standard Curve

