Assay Class:	High Sensitivity DNA Assay	Created:	23/09/2021 15:46:53
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad	Modified:	23/09/2021 16:28:15

Electrophoresis File Run Summary

Instrument Information:

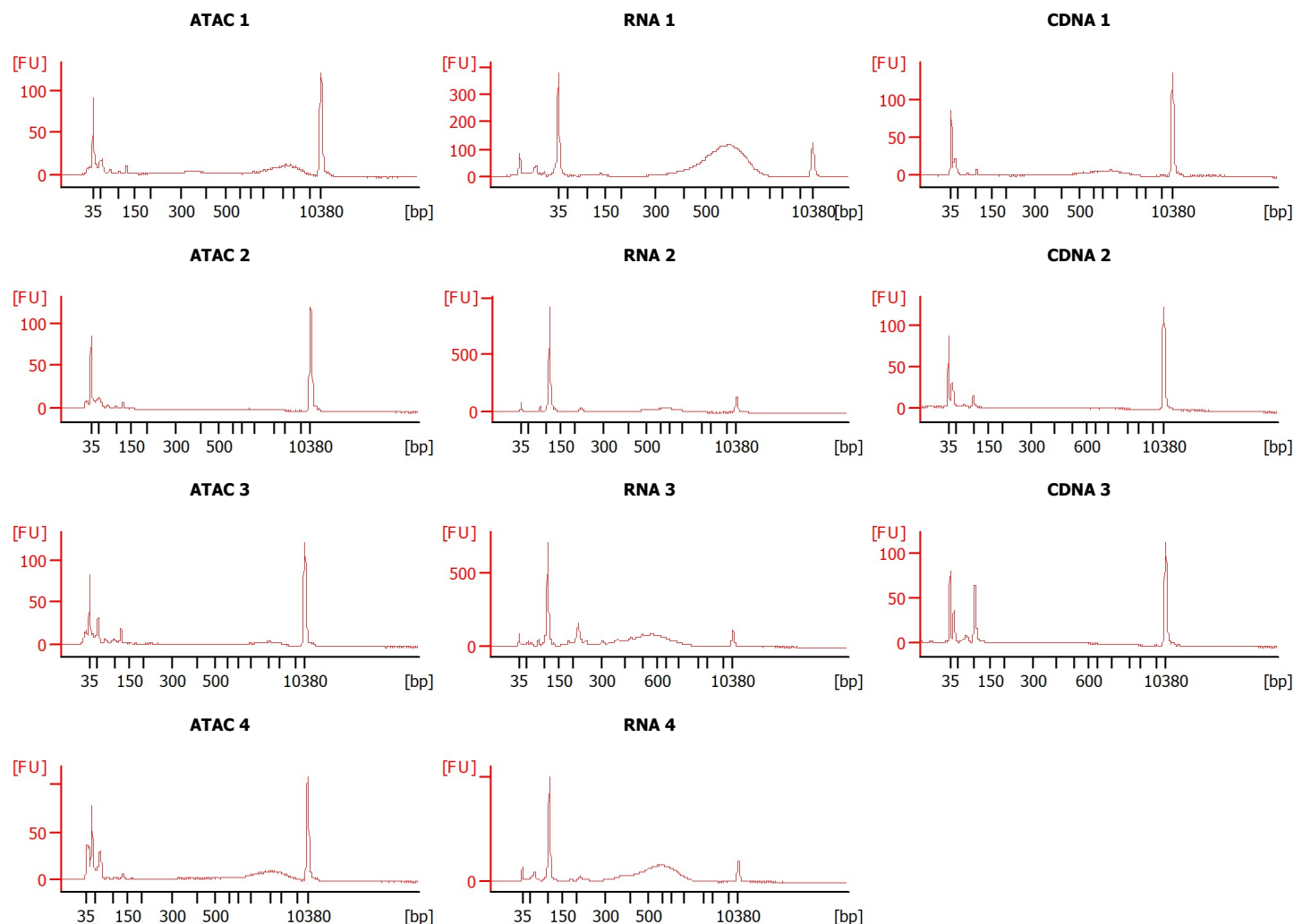|			
Instrument Name:	DEDAE01844	Firmware:	C.01.069
Serial#:	DEDAE01844	Type:	G2939B

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	Created:	23/09/2021 15:46:53
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad	Modified:	23/09/2021 16:28:15

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ATAC 1		☐	✔			
RNA 1		☐	✔			
CDNA 1		☐	✔			
ATAC 2		☐	✔			
RNA 2		☐	✔			
CDNA 2		☐	✔			
ATAC 3		☐	✔			
RNA 3		☐	✔			
CDNA 3		☐	✔			
ATAC 4		☐	✔			
RNA 4		☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

Assay Class:	High Sensitivity DNA Assay	Created:	23/09/2021 15:46:53
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad	Modified:	23/09/2021 16:28:15

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:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad

Created: 23/09/2021 15:46:53
Modified: 23/09/2021 16:28:15

Electropherogram Summary
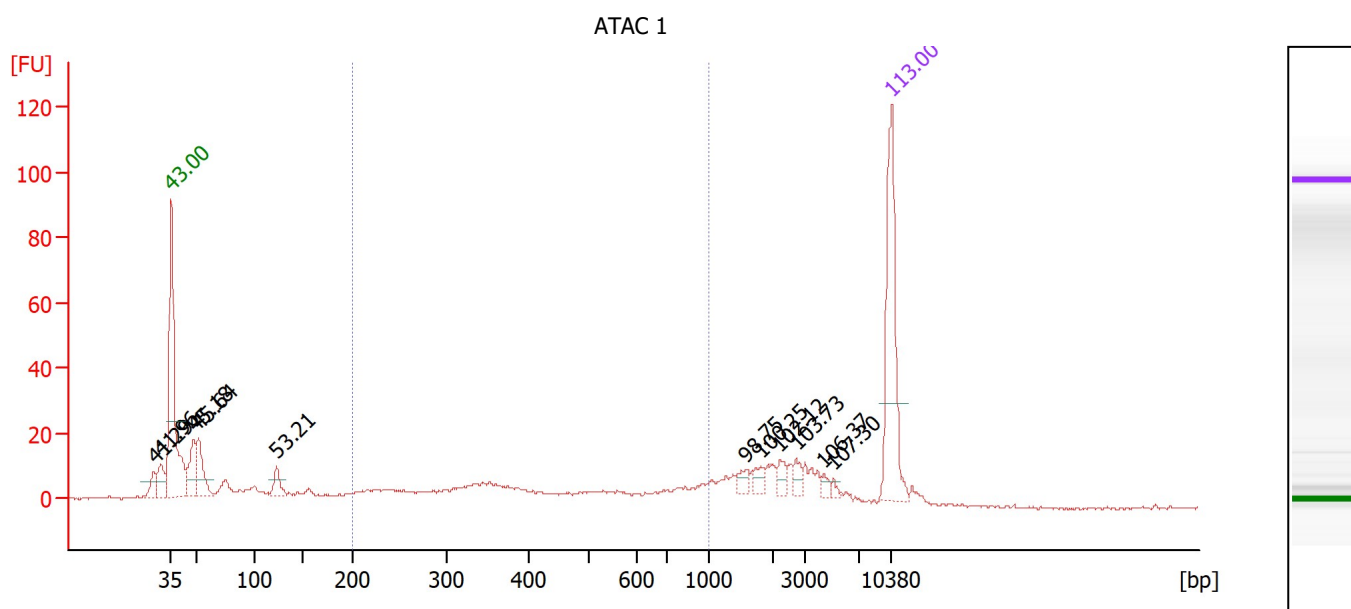
ATAC 1

Overall Results for sample 1 :   ATAC 1

Number of peaks found:	11	Corr. Area 1:	168.7
Noise:	0.4		

Peak table for sample 1 :   ATAC 1

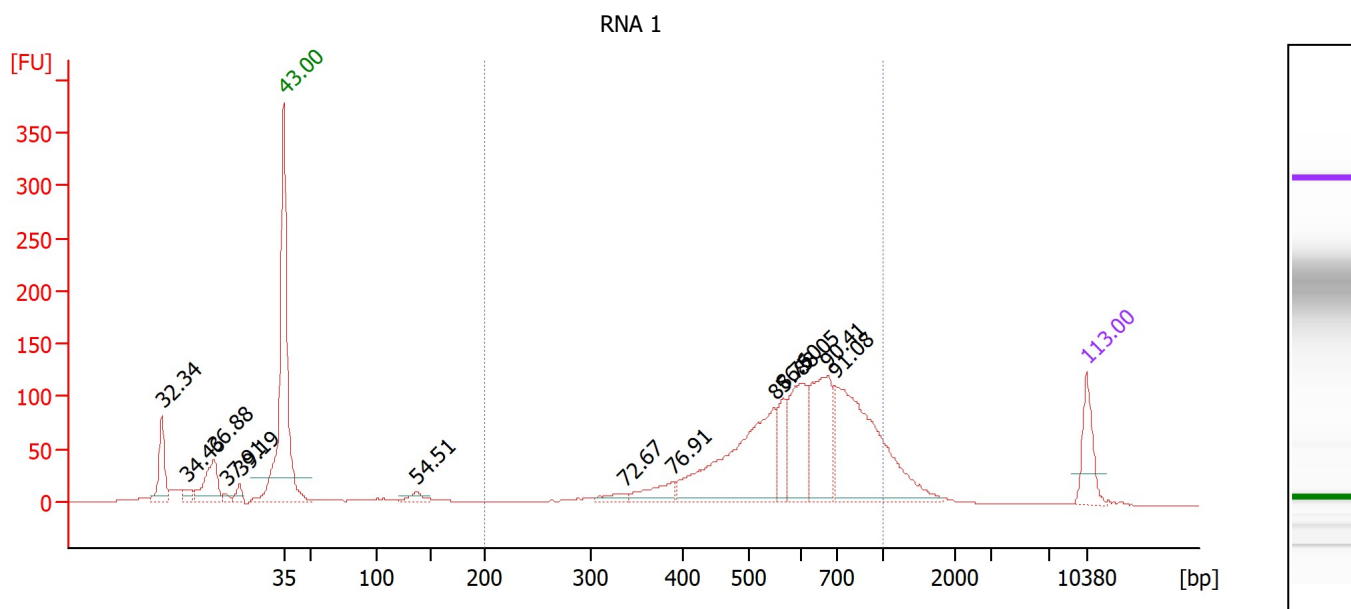| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		29	0.00	0.0	
2		31	0.00	0.0	
3	◄	35	125.00	5,411.3	Lower Marker
4		49	38.41	1,194.8	
5		52	41.47	1,201.3	
6		123	16.10	198.4	
7		1,560	6.75	6.6	
8		1,800	6.99	5.9	
9		2,194	6.90	4.8	
10		2,703	6.61	3.7	
11		4,330	3.85	1.3	
12		5,057	2.53	0.8	
13	▶	10,380	75.00	10.9	Upper Marker

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	168.7	34	465	44.8	174.22	731.6	◼

| Assay Class: | High Sensitivity DNA Assay | | Created: | 23/09/2021 15:46:53 |
| Data Path: | C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad | | Modified: | 23/09/2021 16:28:15 |

Electropherogram Summary Continued ...

RNA 1

Overall Results for sample 2 :   RNA 1

| Number of peaks found: | 13 | Corr. Area 1: | 1,449.3 |
| Noise: | 0.4 | | |

Peak table for sample 2 :   RNA 1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	5	0.00	0.0	
3	14	0.00	0.0	
4	17	0.00	0.0	
5	22	0.00	0.0	
6	35	125.00	5,411.3	Lower Marker
7	137	28.88	320.5	
8	337	25.78	116.0	
9	390	64.58	251.1	
10	548	434.62	1,201.7	
11	566	73.90	197.7	
12	598	197.80	501.2	
13	675	247.16	554.4	
14	698	485.52	1,054.5	
15	10,380	75.00	10.9	Upper Marker

Region table for sample 2 :   RNA 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	1,449.3	73	612	26.3	1,524.97	4,185.3	◼

| Assay Class: | High Sensitivity DNA Assay | Created: | 23/09/2021 15:46:53 |
| Data Path: | C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad | Modified: | 23/09/2021 16:28:15 |

Electropherogram Summary Continued ...
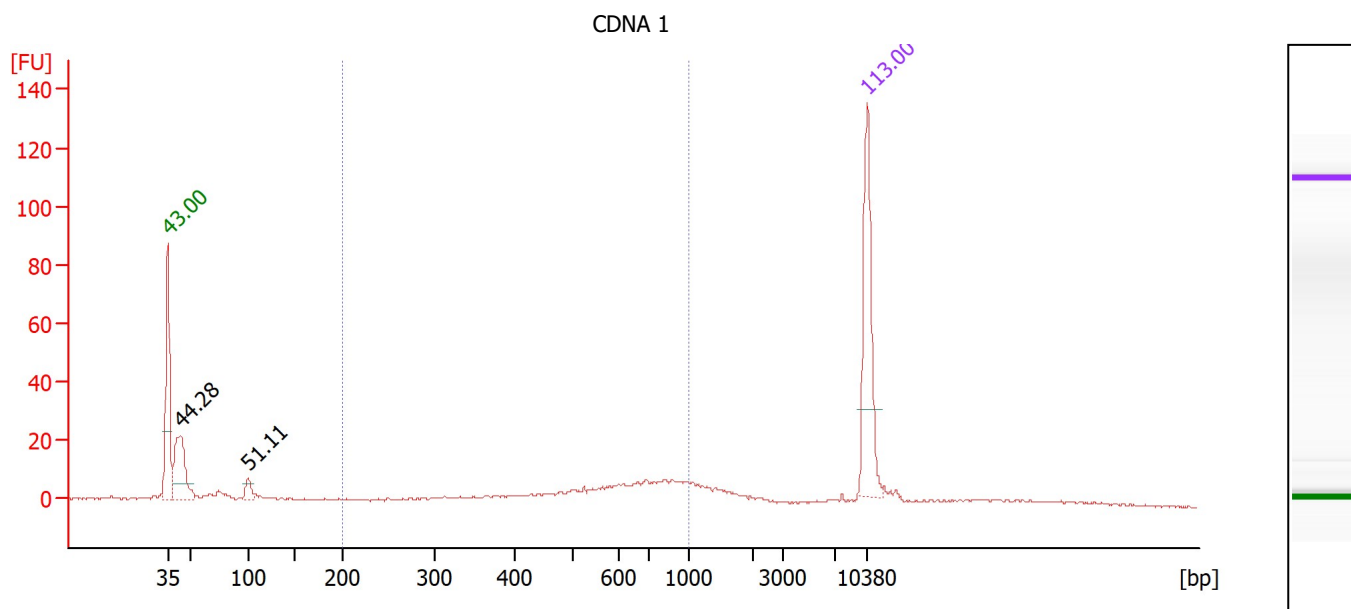
CDNA 1

Overall Results for sample 3 :   CDNA 1

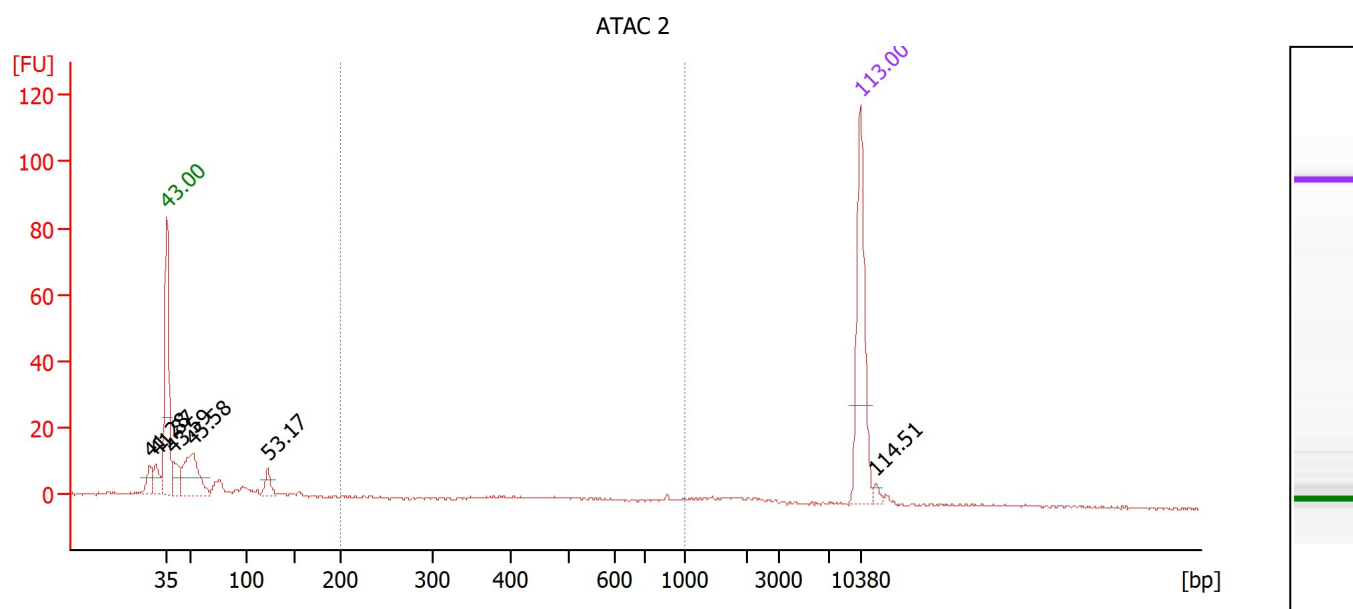| Number of peaks found: | 2 | Corr. Area 1: | 126.8 |
| Noise: | 0.4 | | |

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		43	86.68	3,049.8	
3		101	13.07	196.2	
4	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 3 :   CDNA 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	126.8	41	599	32.4	118.09	358.2	🟦

Assay Class: High Sensitivity DNA Assay   Created: 23/09/2021 15:46:53
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad   Modified: 23/09/2021 16:28:15

Electropherogram Summary Continued ...

ATAC 2

Overall Results for sample 4 :   ATAC 2

Number of peaks found:	6	Corr. Area 1:	18.0
Noise:	0.4		

Peak table for sample 4 :   ATAC 2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		29	0.00	0.0	
2		31	0.00	0.0	
3	◀	35	125.00	5,411.3	Lower Marker
4		39	29.44	1,152.0	
5		52	74.19	2,170.8	
6		123	16.09	199.0	
7	▶	10,380	75.00	10.9	Upper Marker
8		11,966	0.00	0.0	

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]	Color
200	1,000	18.0	10	524	37.6	19.43	68.5	🟦

Electropherogram Summary Continued ...

RNA 2

Overall Results for sample 5 :   RNA 2
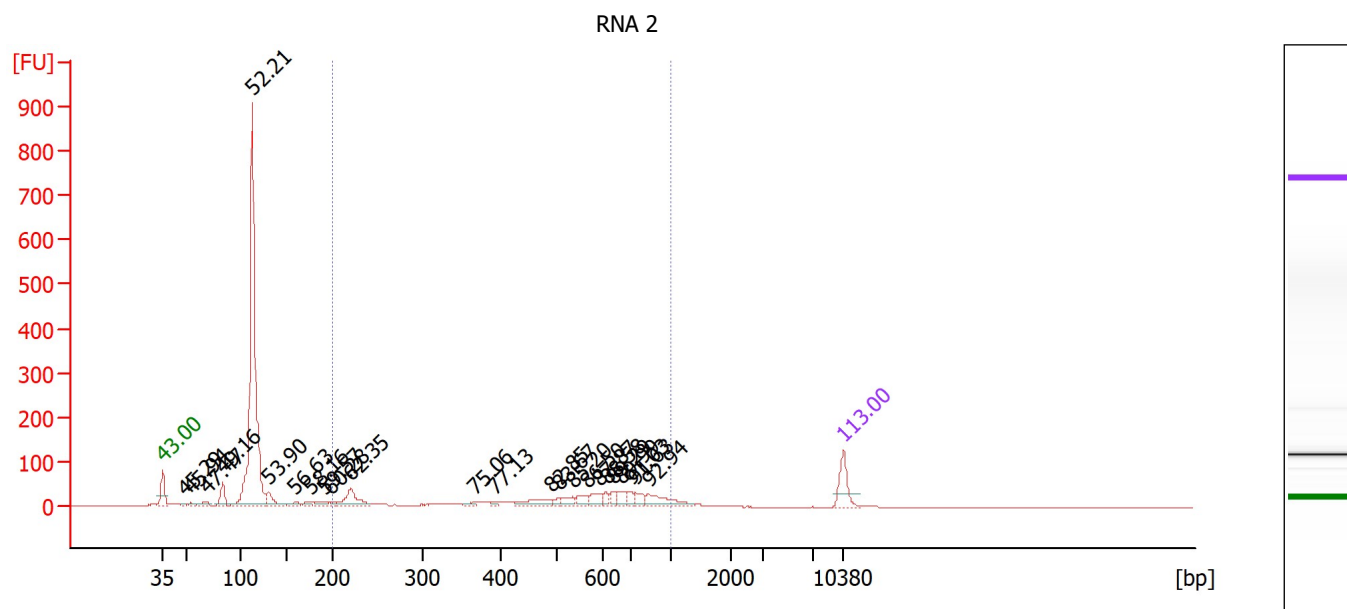
Number of peaks found:	24	Corr. Area 1:	685.3
Noise:	0.4		

Peak table for sample 5 :   RNA 2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		49	12.49	383.0	
3		55	15.30	421.6	
4		69	27.04	598.0	
5		83	79.58	1,444.4	
6		112	1,550.45	20,886.4	
7		130	70.67	822.4	
8		159	19.84	189.2	
9		175	18.19	157.6	
10		190	24.57	196.2	
11		197	10.22	78.6	
12		220	101.67	701.3	
13		367	8.48	35.1	
14		392	6.87	26.5	
15		488	49.40	153.3	
16		503	12.78	38.5	
17		536	30.23	85.5	
18		564	29.78	80.0	
19		594	37.88	96.6	
20		614	21.37	52.7	
21		638	22.03	52.3	
22		661	31.62	72.4	
23		696	22.40	48.8	
24		735	32.27	66.5	
25		831	74.44	135.7	
26	▶	10,380	75.00	10.9	Upper Marker

|	
Assay Class:	High Sensitivity DNA Assay
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad

Created: 23/09/2021 15:46:53
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Electropherogram Summary Continued ...

... Region table for sample 5 :   RNA 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	685.3	33	532	38.0	708.91	2,680.3	▇

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad

Created: 23/09/2021 15:46:53
Modified: 23/09/2021 16:28:15

Electropherogram Summary Continued ...
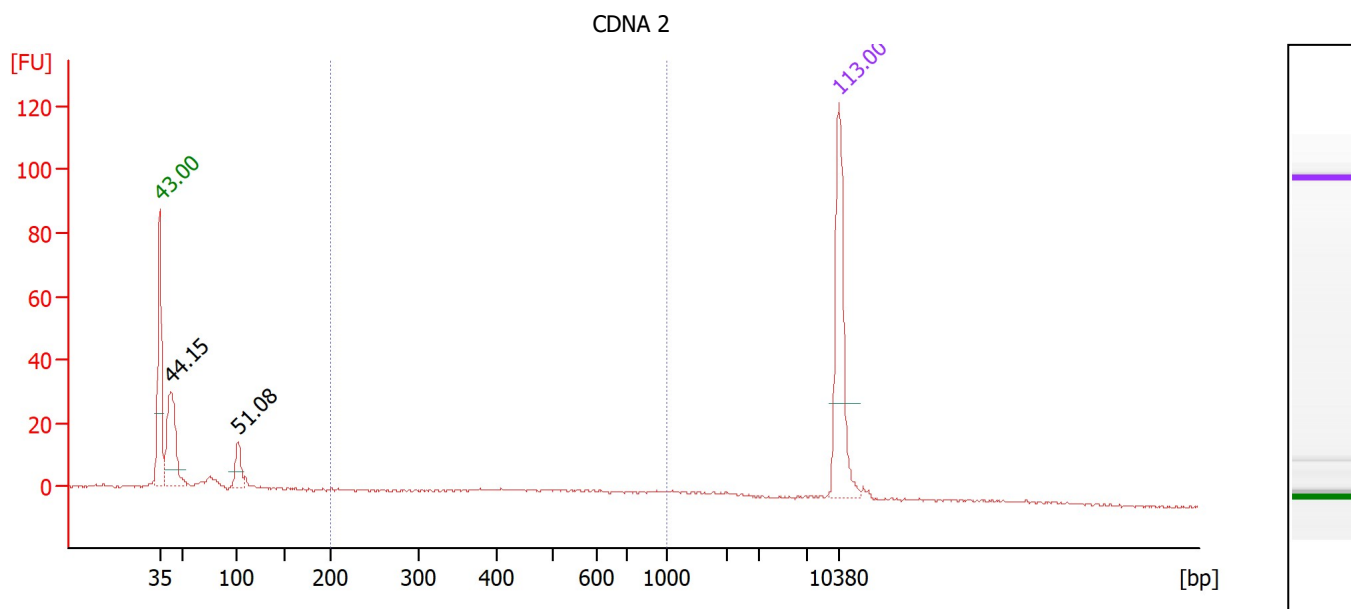
CDNA 2

Overall Results for sample 6 :   CDNA 2

Number of peaks found:	2	Corr. Area 1:	50.5
Noise:	0.5		

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		42	102.48	3,673.6	
3		101	25.34	381.9	
4	▶	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	50.5	23	512	37.9	49.16	180.1	🟦

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad

Created: 23/09/2021 15:46:53
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Electropherogram Summary Continued ...
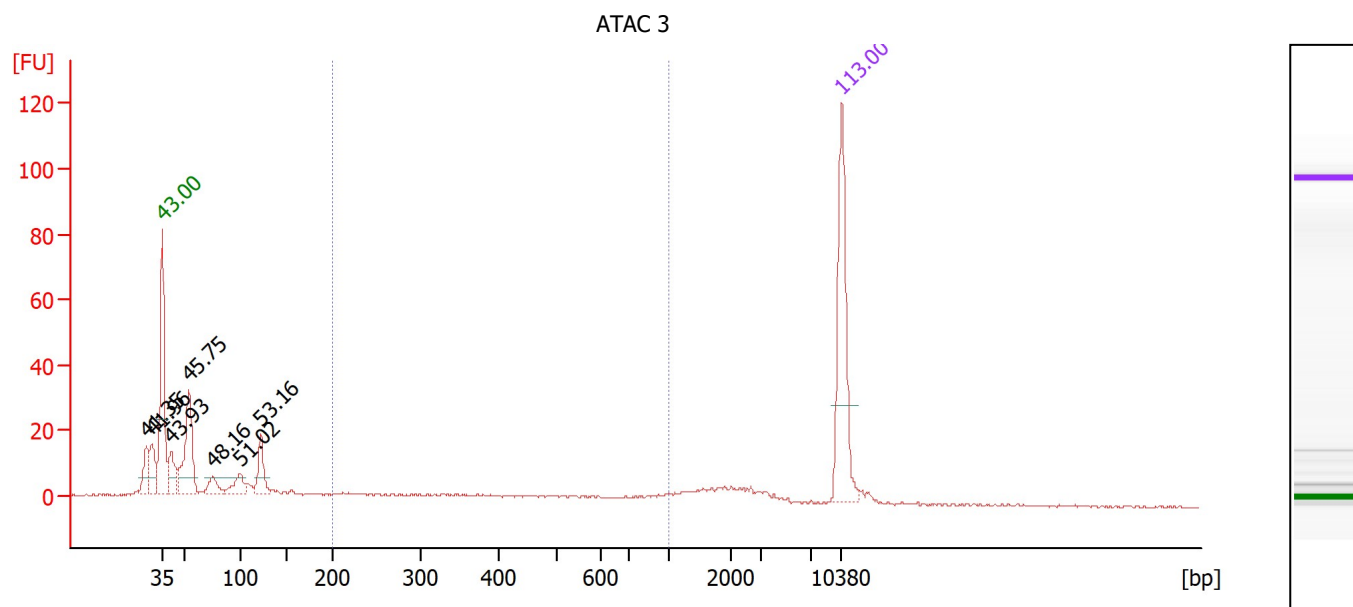
ATAC 3

Overall Results for sample 7 :   ATAC 3

Number of peaks found:	7	Corr. Area 1:	59.0
Noise:	0.3		

Peak table for sample 7 :   ATAC 3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	31	0.00	0.0	
3 ◀	35	125.00	5,411.3	Lower Marker
4	41	34.94	1,295.1	
5	53	88.95	2,532.3	
6	75	18.65	378.6	
7	100	21.35	323.8	
8	122	32.06	396.9	
9 ▶	10,380	75.00	10.9	Upper Marker

Region table for sample 7 :   ATAC 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	59.0	18	465	45.4	61.59	262.4	■

Electropherogram Summary Continued ...
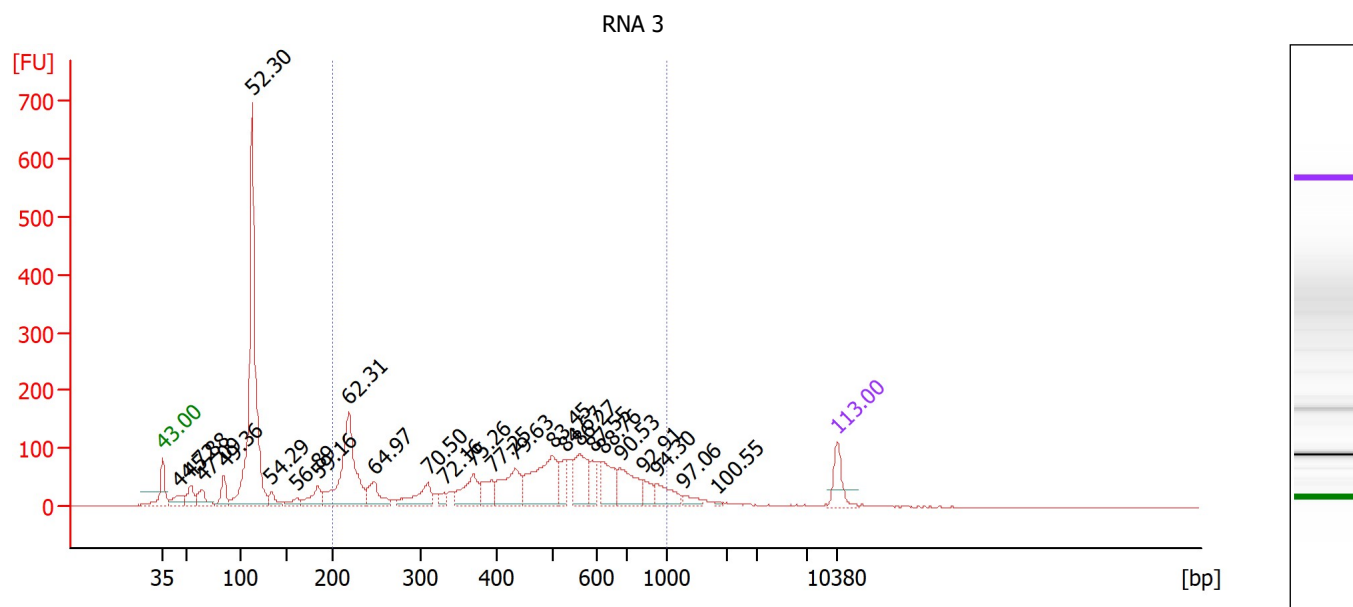
RNA 3

Overall Results for sample 8 :   RNA 3

Number of peaks found:	25	Corr. Area 1:	2,188.3
Noise:	0.4		

Peak table for sample 8 :   RNA 3

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		46	85.84	2,839.4	
3		54	88.00	2,451.3	
4		65	94.30	2,192.1	
5		85	95.62	1,698.9	
6		113	1,453.27	19,426.8	
7		134	53.75	606.7	
8		162	36.32	340.7	
9		185	101.19	827.1	
10		219	552.70	3,820.2	
11		248	120.18	733.7	
12		310	129.34	632.6	
13		330	28.91	132.5	
14		369	147.16	604.1	
15		394	86.38	332.2	
16		433	197.67	692.3	
17		498	315.03	957.6	
18		524	73.28	211.7	
19		559	164.45	445.5	
20		587	61.55	158.9	
21		620	126.83	309.7	
22		679	153.09	341.4	
23		829	55.80	101.9	
24		931	79.08	128.7	
25		1,291	29.71	34.9	
26		1,847	4.65	3.8	

Assay Class: High Sensitivity DNA Assay   Created: 23/09/2021 15:46:53
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad   Modified: 23/09/2021 16:28:15

Electropherogram Summary Continued ...

... Peak table for sample 8 :   RNA 3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27 ▶	10,380	75.00	10.9	Upper Marker

Region table for sample 8 :   RNA 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	2,188.3	59	476	38.7	2,415.93	9,946.3	🟦

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad

Created: 23/09/2021 15:46:53
Modified: 23/09/2021 16:28:15

Electropherogram Summary Continued ...

CDNA 3

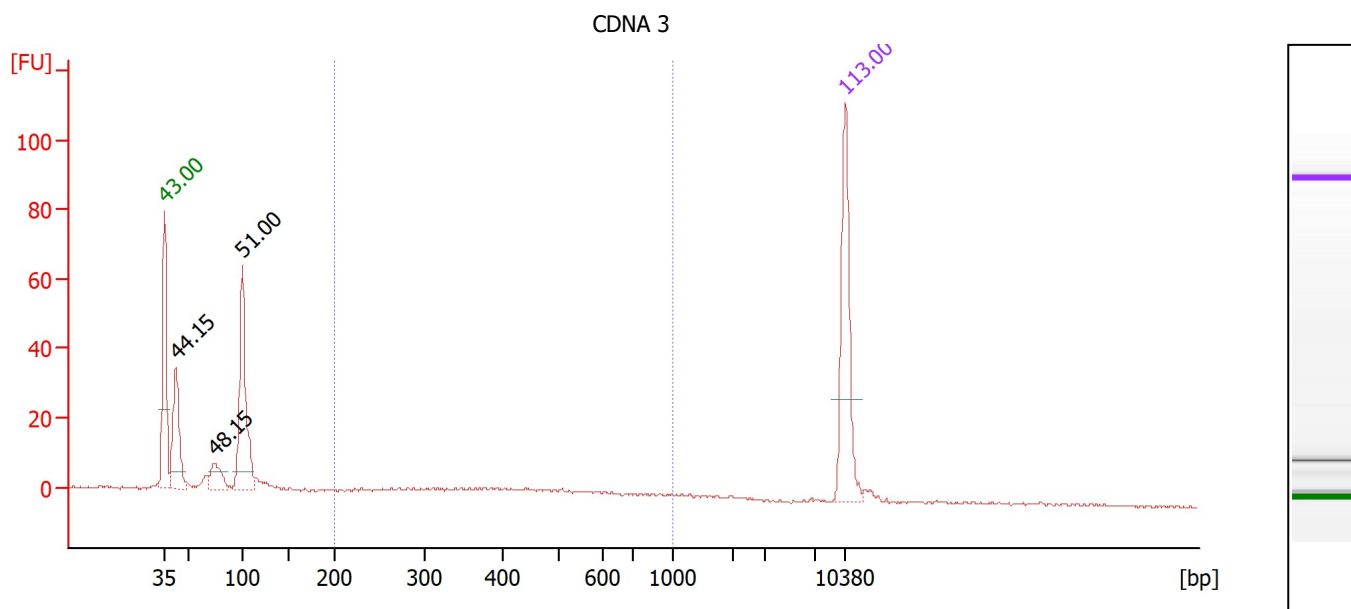**Overall Results for sample 9 :   CDNA 3**

Number of peaks found:	3	Corr. Area 1:	50.2
Noise:	0.3		

Peak table for sample 9 :   CDNA 3

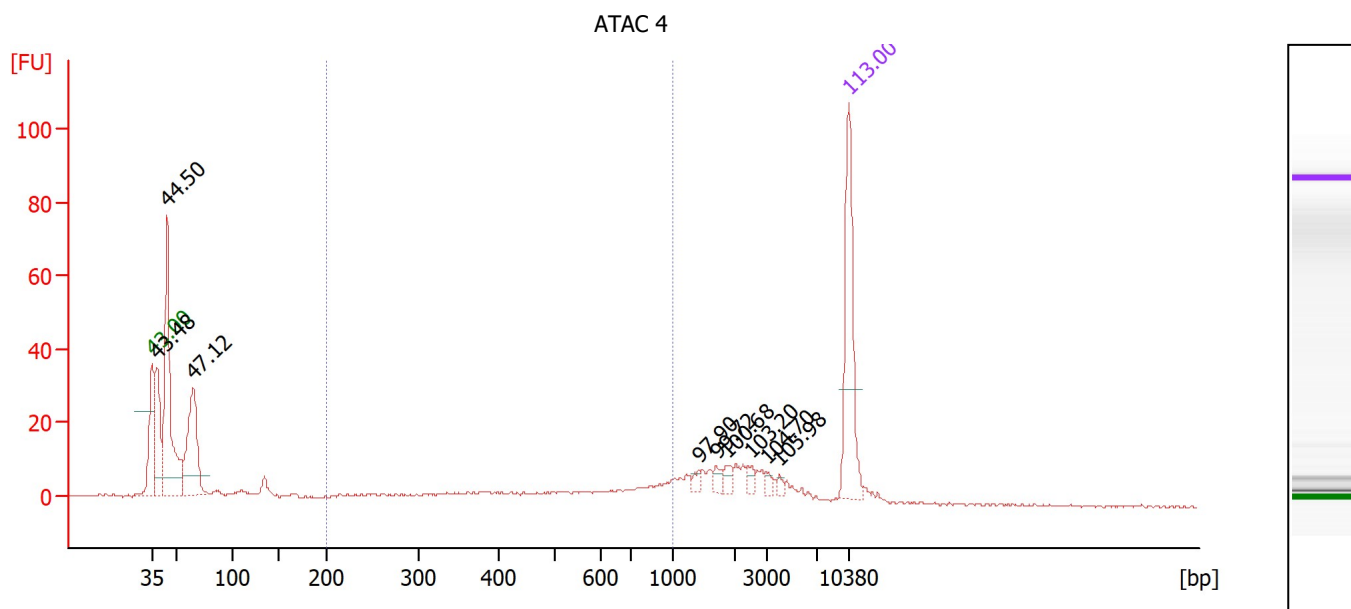| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		42	95.24	3,415.5	
3		75	30.73	624.5	
4		100	145.06	2,202.2	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 9 :   CDNA 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	50.2	19	439	37.4	55.83	229.5	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad

Created: 23/09/2021 15:46:53
Modified: 23/09/2021 16:28:15

Electropherogram Summary Continued ...

ATAC 4

Overall Results for sample 10 :   ATAC 4

Number of peaks found:	9	Corr. Area 1:	75.2
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		38	87.77	3,496.2	
3		44	206.28	7,032.4	
4		65	123.43	2,858.1	
5		1,424	4.76	5.1	
6		1,715	5.83	5.1	
7		1,868	6.16	5.0	
8		2,536	5.62	3.4	
9		3,027	3.26	1.6	
10		4,030	3.03	1.1	
11	▶	10,380	75.00	10.9	Upper Marker

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]	Color
200	1,000	75.2	17	560	38.7	88.85	306.7	■

Assay Class: High Sensitivity DNA Assay   Created: 23/09/2021 15:46:53
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad   Modified: 23/09/2021 16:28:15

Electropherogram Summary Continued ...
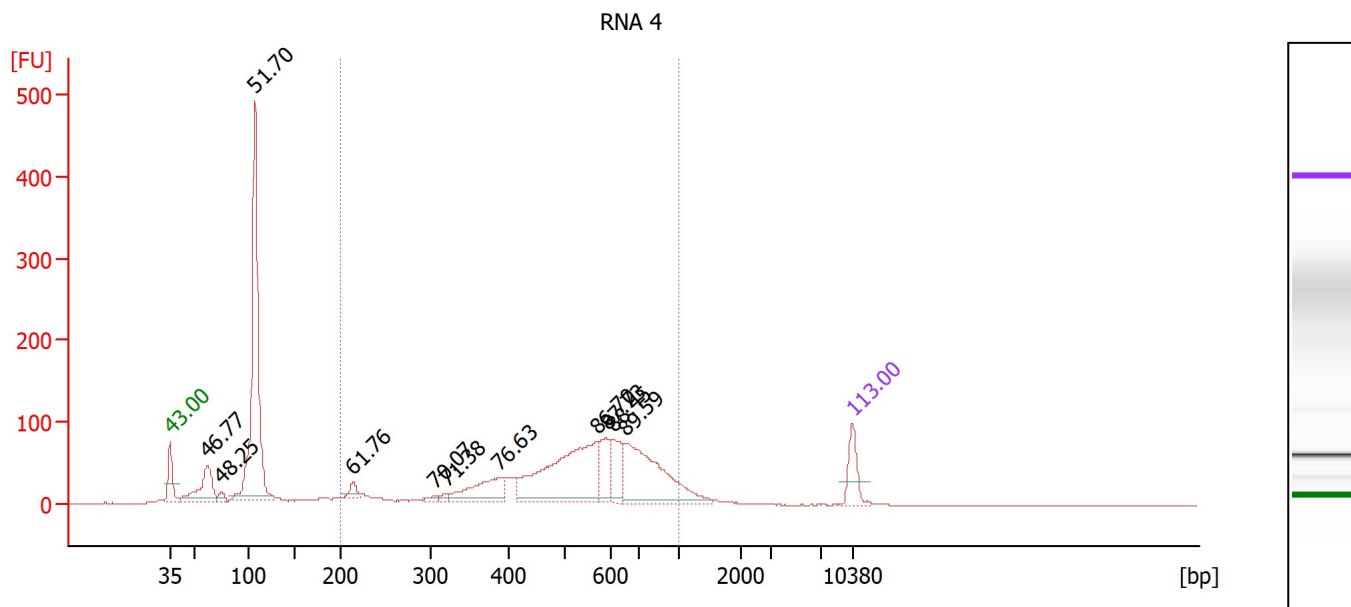
RNA 4

Overall Results for sample 11 :   RNA 4

Number of peaks found:	11	Corr. Area 1:	1,422.9
Noise:	0.4		

Peak table for sample 11 :   RNA 4

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		62	236.65	5,752.5	
3		75	24.30	488.3	
4		107	1,156.58	16,372.2	
5		213	36.73	261.1	
6		304	13.85	68.9	
7		321	15.76	74.4	
8		386	168.57	661.3	
9		568	540.04	1,439.4	
10		591	107.96	276.8	
11		610	104.82	260.4	
12		648	415.57	971.5	
13	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 11 :   RNA 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	1,422.9	58	547	30.5	1,684.35	5,514.5	■

| Assay Class: | High Sensitivity DNA Assay | | Created: | 23/09/2021 15:46:53 |
| Data Path: | C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-09-23_15-46-53.xad | | Modified: | 23/09/2021 16:28:15 |

Gel Image