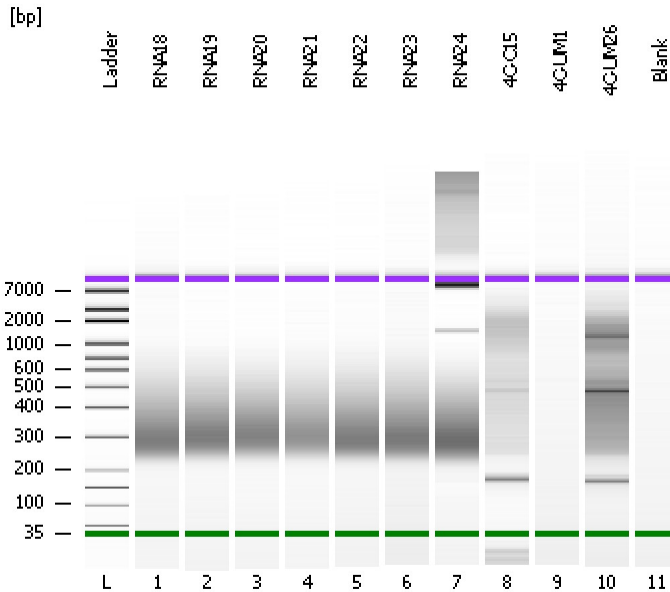


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
Modified: 1/16/2019 12:29:01 PM

Electrophoresis File Run Summary



Instrument Information:

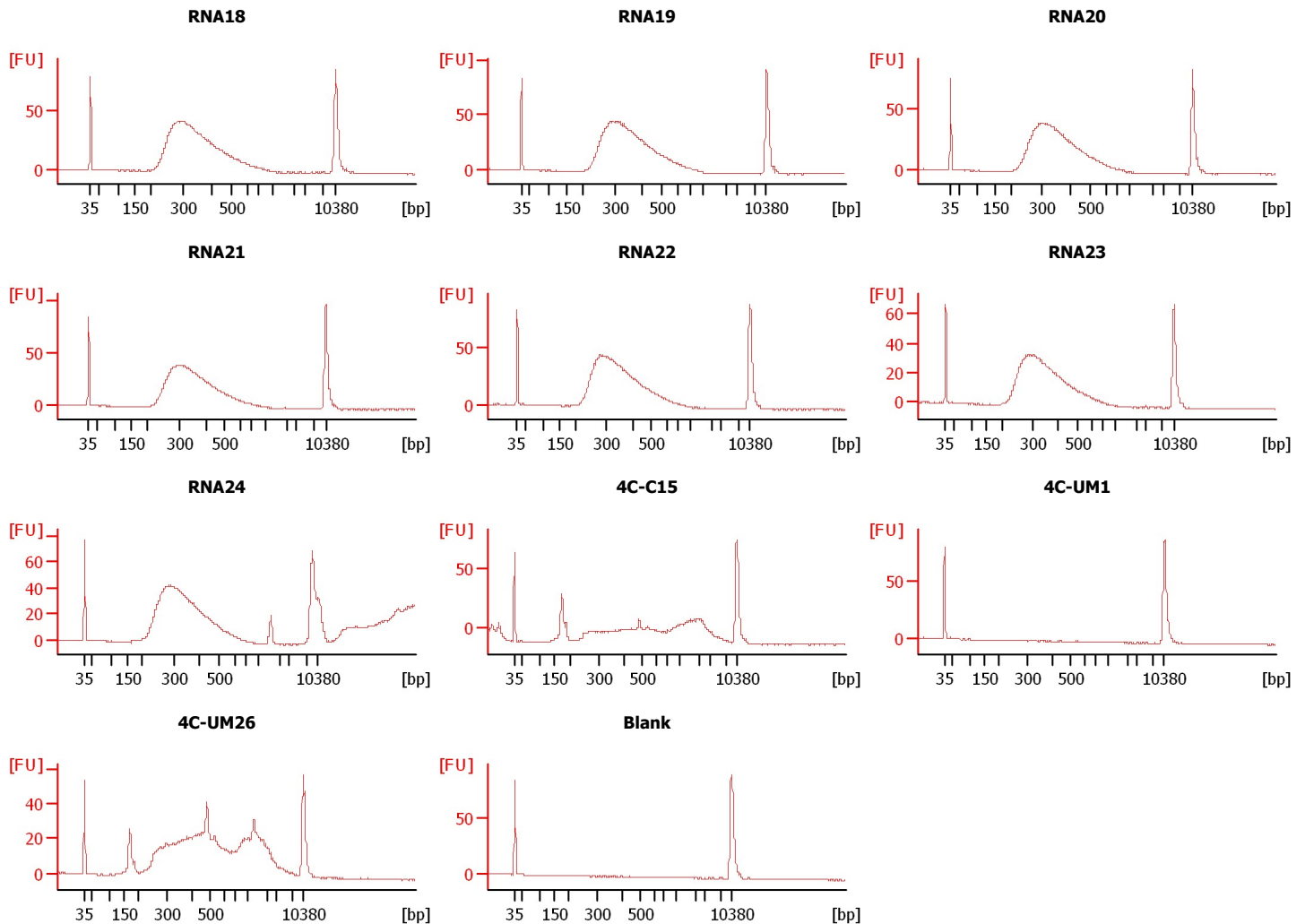
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RNA18		<input type="checkbox"/>	✓			
RNA19		<input type="checkbox"/>	✓			
RNA20		<input type="checkbox"/>	✓			
RNA21		<input type="checkbox"/>	✓			
RNA22		<input type="checkbox"/>	✓			
RNA23		<input type="checkbox"/>	✓			
RNA24		<input type="checkbox"/>	✓			
4C-C15		<input type="checkbox"/>	✓			
4C-UM1		<input type="checkbox"/>	✓			
4C-UM26		<input type="checkbox"/>	✓			
Blank		<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\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
Modified: 1/16/2019 12:29:01 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

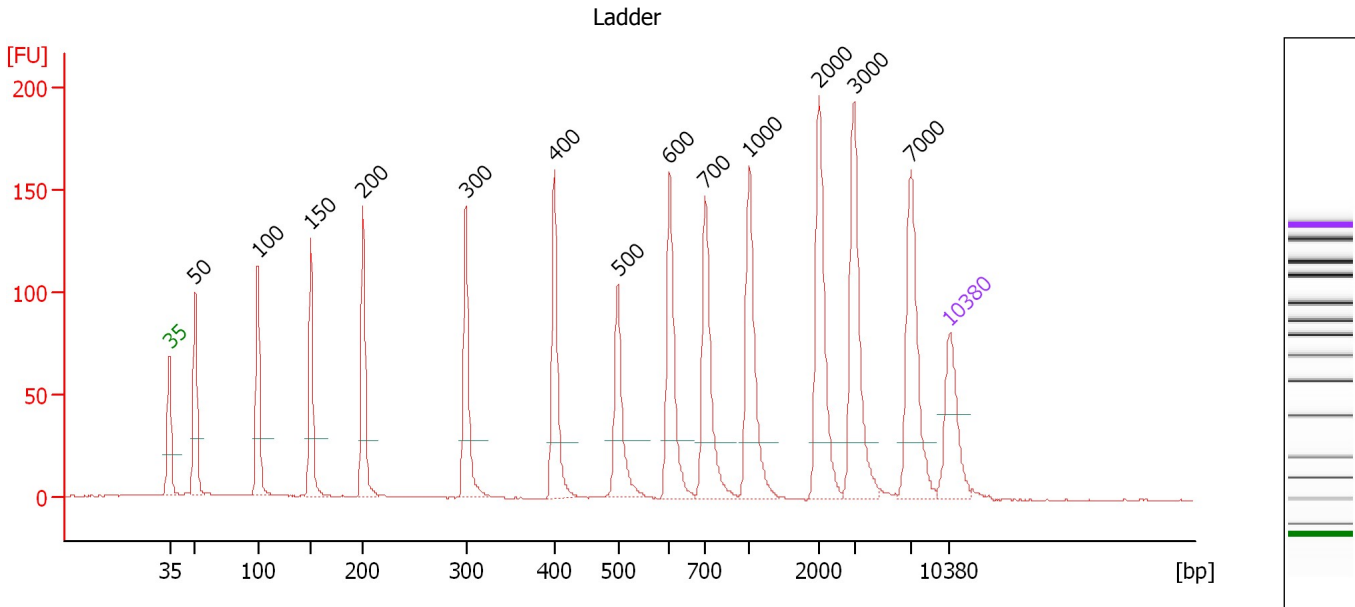
Ladder

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\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

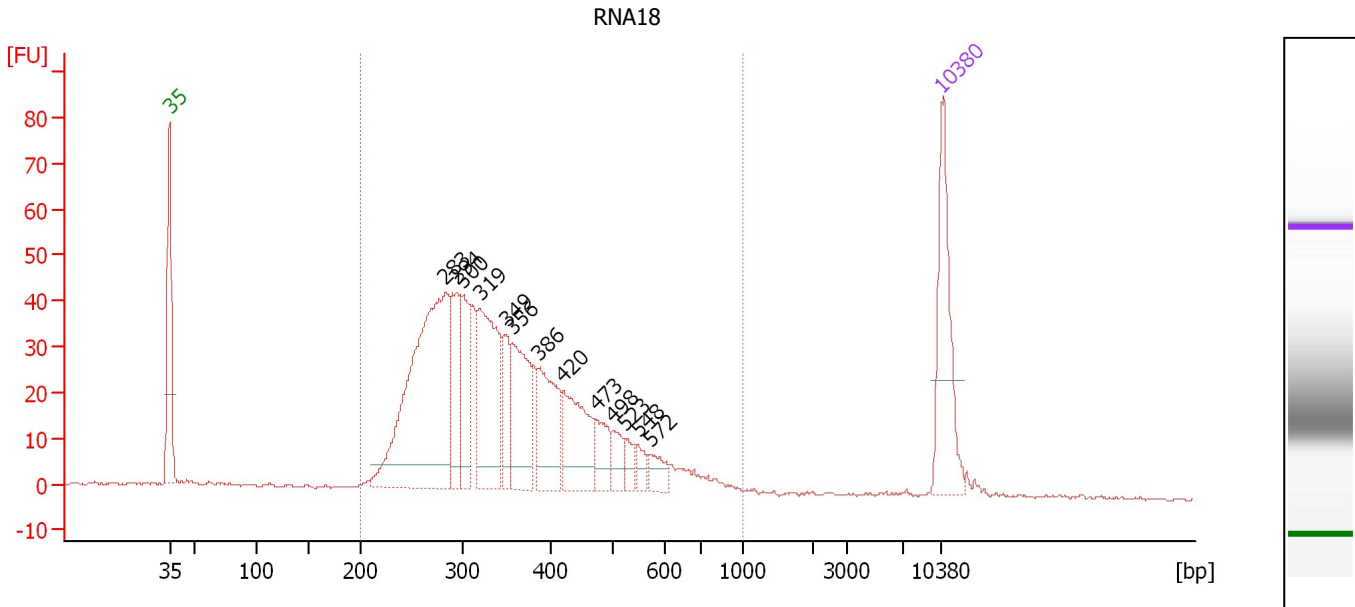
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.30
3	100	150.00	2,272.7	Ladder Peak	50.95
4	150	150.00	1,515.2	Ladder Peak	55.69
5	200	150.00	1,136.4	Ladder Peak	60.38
6	300	150.00	757.6	Ladder Peak	69.62
7	400	150.00	568.2	Ladder Peak	77.57
8	500	150.00	454.5	Ladder Peak	83.27
9	600	150.00	378.8	Ladder Peak	87.91
10	700	150.00	324.7	Ladder Peak	91.12
11	1,000	150.00	227.3	Ladder Peak	95.05
12	2,000	150.00	113.6	Ladder Peak	101.37
13	3,000	150.00	75.8	Ladder Peak	104.48
14	7,000	150.00	32.5	Ladder Peak	109.55
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RNA18

Number of peaks found: 13 Corr. Area 1: 933.0
 Noise: 0.3

Peak table for sample 1 : RNA18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	283	330.34	1,769.2		68.04
3	294	72.64	374.5		69.06
4	300	58.62	295.9		69.64
5	319	143.96	683.6		71.14
6	349	36.68	159.0		73.55
7	356	90.17	383.6		74.08
8	386	78.89	309.7		76.45
9	420	78.93	284.6		78.73
10	473	28.00	89.7		81.72
11	498	20.47	62.2		83.17
12	523	12.93	37.5		84.33
13	548	10.54	29.2		85.49
14	572	16.09	42.6		86.60
15	10,380	75.00	10.9	Upper Marker	113.00

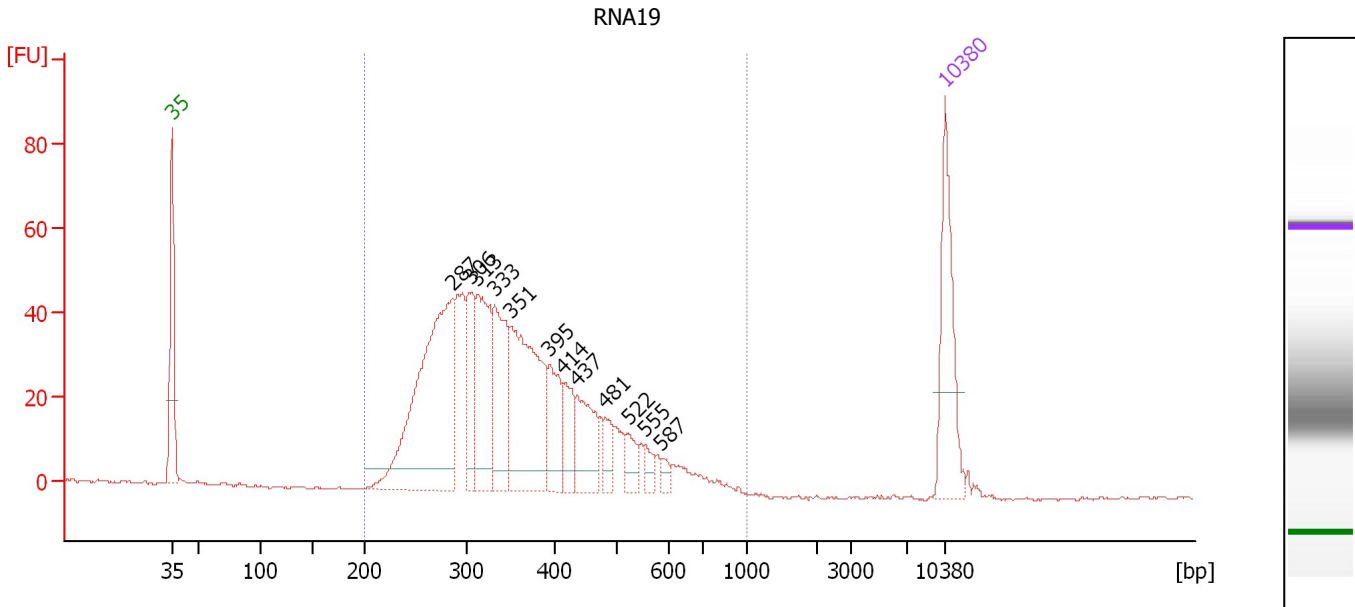
Region table for sample 1 : RNA18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	362	1,106.02	933.0	5,114.9	98	30.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA19

Number of peaks found: 12 Corr. Area 1: 966.1
 Noise: 0.3

Peak table for sample 2 : RNA19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	287	310.64	1,641.6		68.39
3	306	63.09	312.6		70.08
4	313	119.62	578.9		70.66
5	333	102.20	465.7		72.21
6	351	183.61	791.7		73.70
7	395	52.69	202.1		77.18
8	414	40.25	147.2		78.39
9	437	58.62	203.2		79.69
10	481	20.81	65.5		82.20
11	522	19.06	55.4		84.28
12	555	11.16	30.5		85.82
13	587	7.45	19.2		87.32
14	10,380	75.00	10.9	Upper Marker	113.00

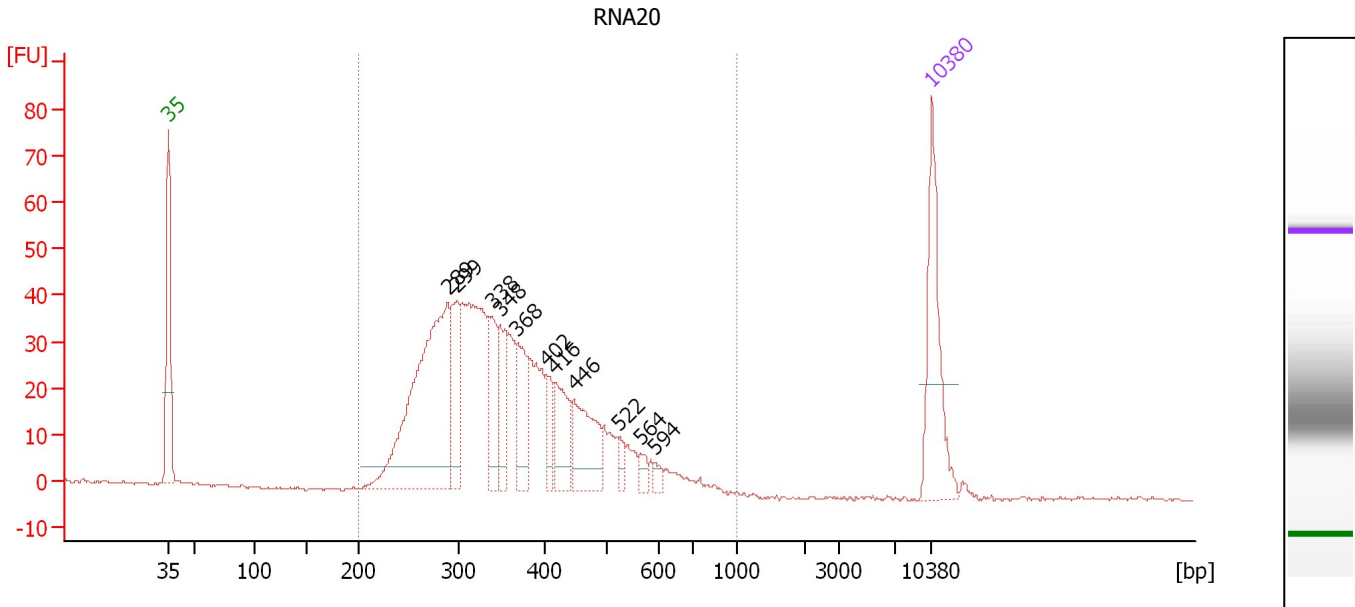
Region table for sample 2 : RNA19

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	363	1,107.71	966.1	5,033.5	100	26.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RNA20

Number of peaks found: 11 Corr. Area 1: 857.1
 Noise: 0.3

Peak table for sample 3 : RNA20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	289	292.03	1,530.5		68.61
3	299	67.60	343.0		69.49
4	338	53.09	237.7		72.67
5	348	49.08	213.9		73.41
6	368	50.75	209.0		75.02
7	402	25.12	94.8		77.66
8	416	51.67	188.1		78.49
9	446	66.51	225.9		80.20
10	522	10.30	29.9		84.31
11	564	9.07	24.4		86.26
12	594	5.83	14.9		87.63
13	10,380	75.00	10.9	Upper Marker	113.00

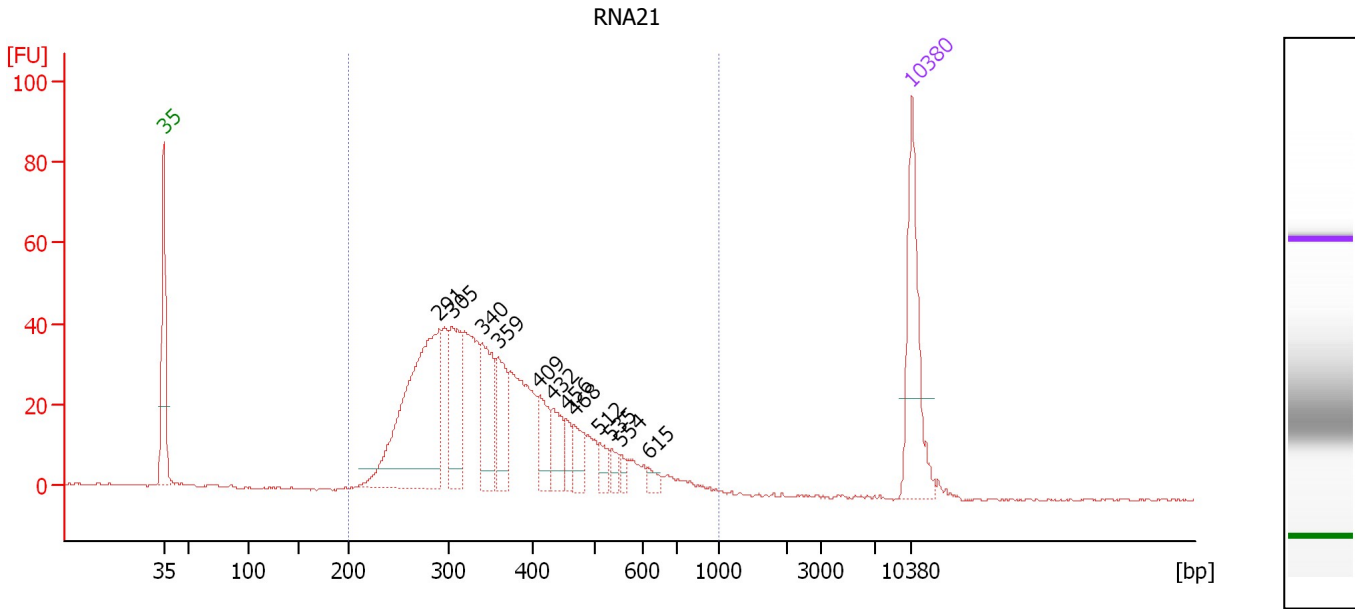
Region table for sample 3 : RNA20

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	365	1,058.06	857.1	4,780.9	99	27.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : RNA21

Number of peaks found: 12 Corr. Area 1: 859.0
 Noise: 0.3

Peak table for sample 4 : RNA21

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	291	255.59	1,333.0		68.74
3	305	87.82	436.7		69.99
4	340	70.55	314.6		72.79
5	359	54.69	231.0		74.28
6	409	34.79	128.9		78.07
7	432	30.95	108.6		79.37
8	456	15.36	51.0		80.77
9	468	21.39	69.2		81.47
10	512	12.36	36.6		83.81
11	535	10.02	28.4		84.91
12	554	6.50	17.8		85.76
13	615	6.69	16.5		88.40
14	10,380	75.00	10.9	Upper Marker	113.00

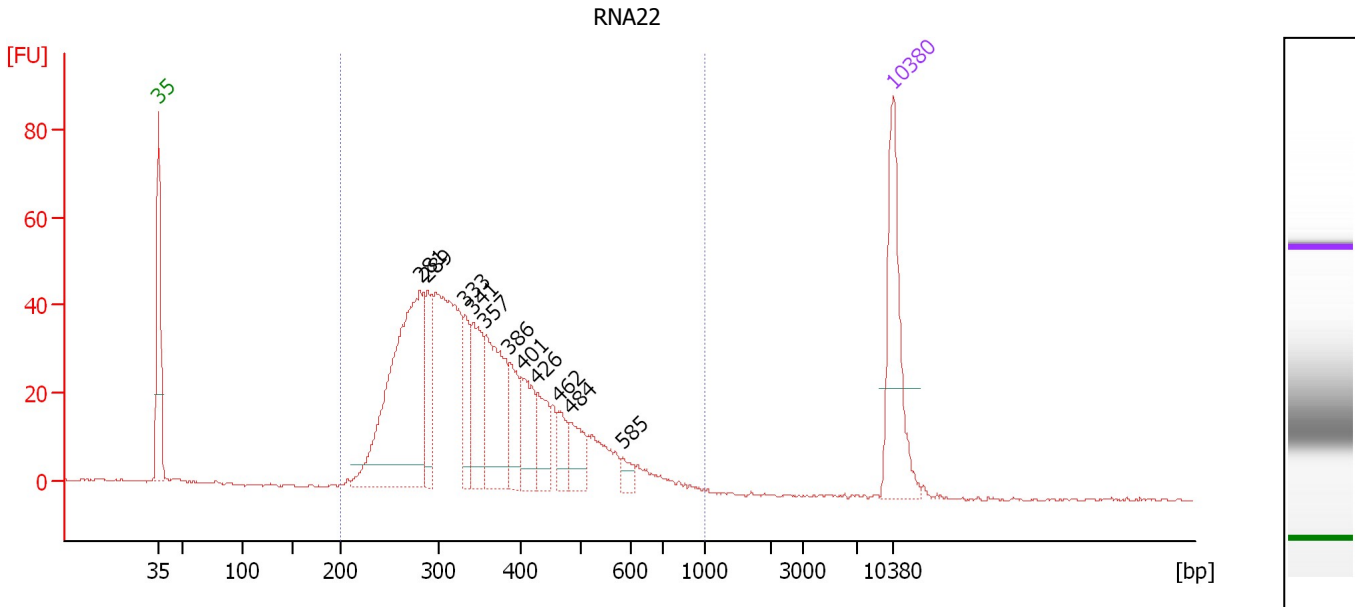
Region table for sample 4 : RNA21

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	368	924.29	859.0	4,167.2	99	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RNA22

Number of peaks found: 11 Corr. Area 1: 945.7
 Noise: 0.2

Peak table for sample 5 : RNA22

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	281	263.99	1,421.0		67.91
3	289	58.17	304.8		68.62
4	333	37.19	169.3		72.23
5	341	66.27	294.3		72.89
6	357	102.09	433.1		74.16
7	386	37.50	147.2		76.45
8	401	41.38	156.4		77.62
9	426	33.81	120.3		79.04
10	462	23.60	77.3		81.13
11	484	28.06	87.9		82.35
12	585	10.00	25.9		87.23
13	10,380	75.00	10.9	Upper Marker	113.00

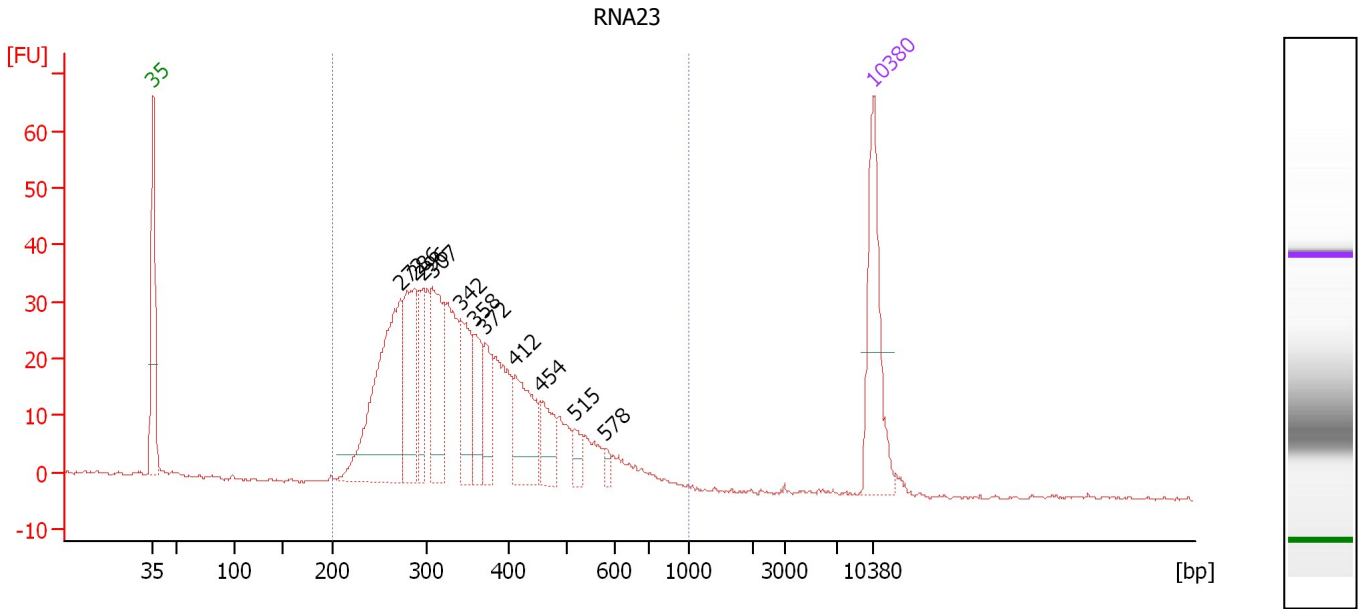
Region table for sample 5 : RNA22

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	361	970.06	945.7	4,458.1	99	28.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : RNA23

Number of peaks found: 11 Corr. Area 1: 731.5
 Noise: 0.3

Peak table for sample 6 : RNA23

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	272	211.87	1,179.8		67.04
3	286	93.88	497.1		68.34
4	296	48.25	246.8		69.27
5	307	95.45	471.6		70.15
6	342	65.24	289.1		72.95
7	358	46.15	195.2		74.24
8	372	37.09	151.1		75.33
9	412	66.58	245.0		78.23
10	454	34.25	114.2		80.67
11	515	14.25	41.9		83.98
12	578	6.34	16.6		86.89
13	10,380	75.00	10.9	Upper Marker	113.00

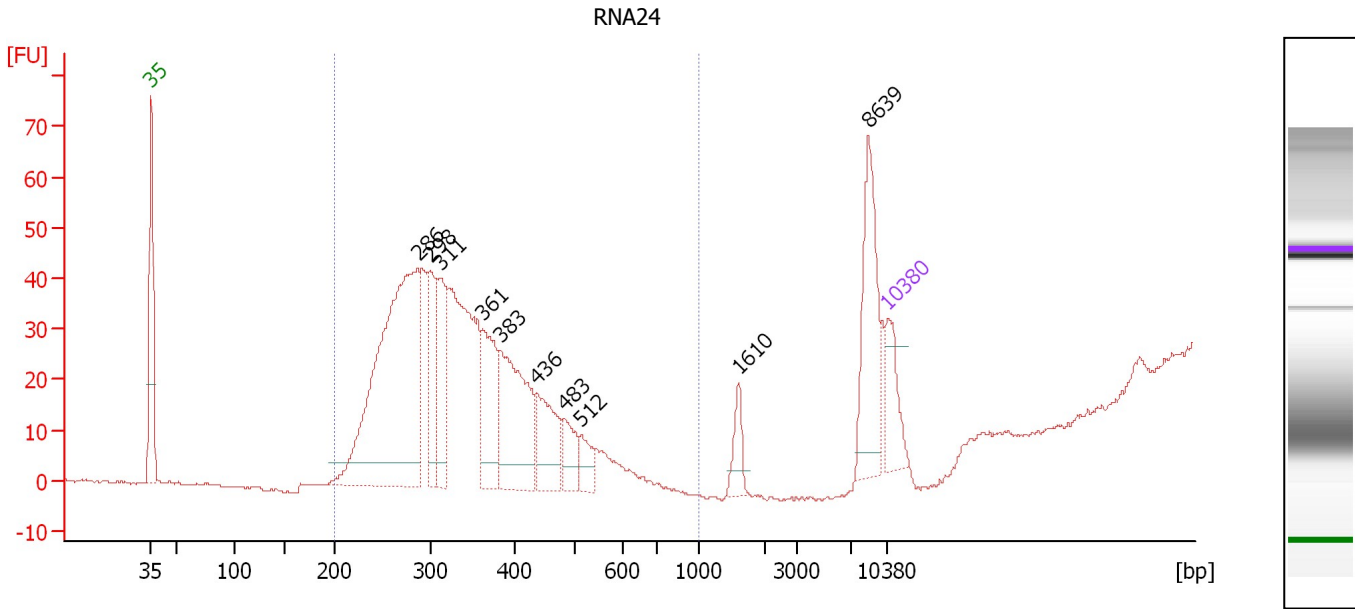
Region table for sample 6 : RNA23

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	360	1,005.21	731.5	4,628.6	98	28.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RNA24

Number of peaks found: 10 Corr. Area 1: 554.2
 Noise: 0.2

Peak table for sample 7 : RNA24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	286	977.62	5,172.3		68.36
3	298	145.59	739.1		69.48
4	311	195.79	954.0		70.49
5	361	196.87	825.4		74.50
6	383	318.21	1,258.6		76.22
7	436	151.97	528.0		79.62
8	483	67.57	211.9		82.31
9	512	50.61	149.7		83.83
10	1,610	46.32	43.6		98.90
11	8,639	197.60	34.7		111.22
12	10,380	75.00	10.9	Upper Marker	113.00

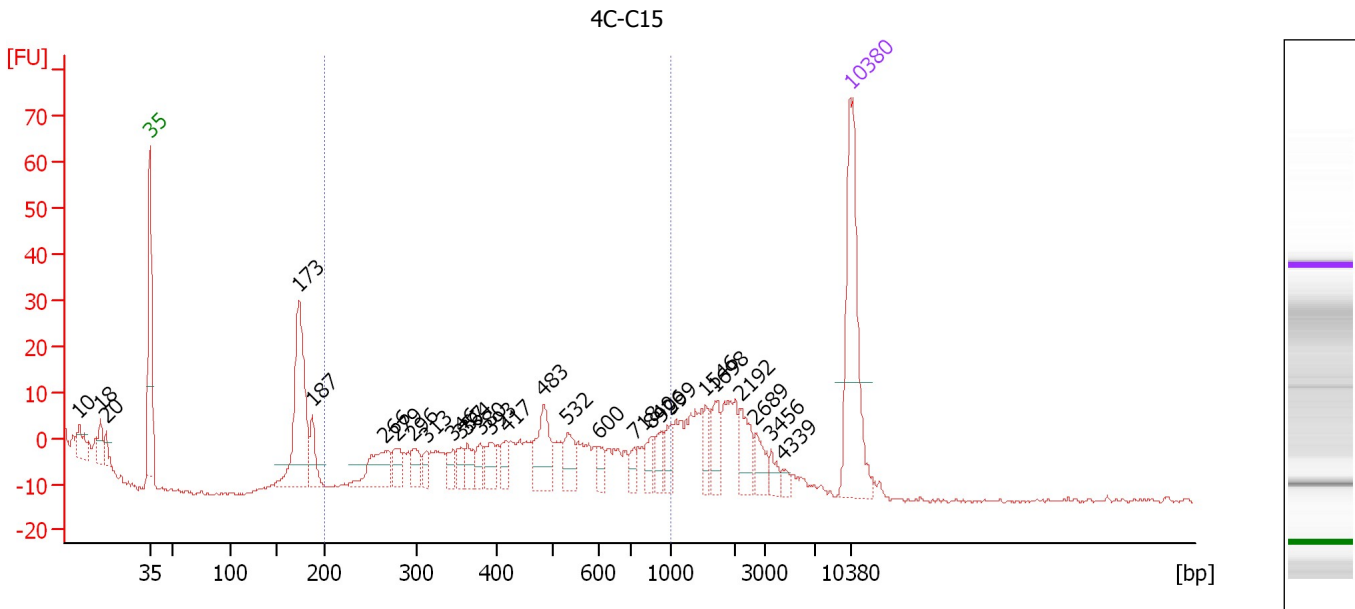
Region table for sample 7 : RNA24

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	316	1,783.25	554.2	8,852.0	90	16.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : 4C-C15

Number of peaks found: 28 Corr. Area 1: 136.8
 Noise: 0.4

Peak table for sample 8 : 4C-C15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	10	0.00	0.0		35.86
2	18	0.00	0.0		38.04
3	20	0.00	0.0		38.58
4	35	125.00	5,411.3	Lower Marker	43.00
5	173	116.93	1,022.3		57.87
6	187	22.95	185.5		59.21
7	266	33.56	191.3		66.46
8	279	16.46	89.4		67.68
9	296	14.13	72.4		69.23
10	313	8.56	41.4		70.67
11	346	8.84	38.7		73.28
12	357	10.77	45.7		74.13
13	364	12.90	53.7		74.72
14	380	10.77	42.9		76.00
15	393	15.27	58.9		77.01
16	417	10.75	39.0		78.56
17	483	35.68	112.0		82.29
18	532	17.33	49.4		84.74
19	600	7.55	19.1		87.89
20	718	7.22	15.2		91.35
21	840	10.07	18.2		92.95
22	926	11.03	18.1		94.07
23	999	11.12	16.9		95.03
24	1,546	11.24	11.0		98.50
25	1,698	16.92	15.1		99.46

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 4C-C15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,192	17.33	12.0		101.96
27	2,689	11.66	6.6		103.51
28	3,456	6.16	2.7		105.06
29	4,339	3.85	1.3		106.18
30	10,380	75.00	10.9	Upper Marker	113.00

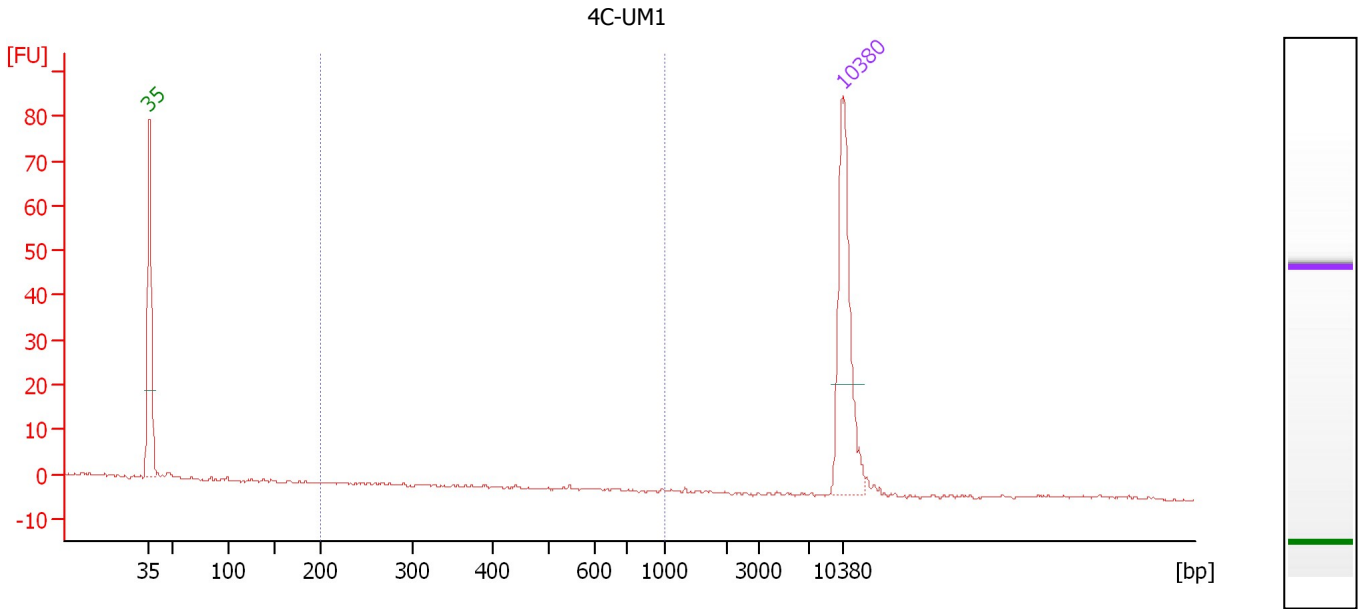
Region table for sample 8 : 4C-C15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	571	136.34	136.8	420.0	42	33.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 4C-UM1

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 9 : 4C-UM1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

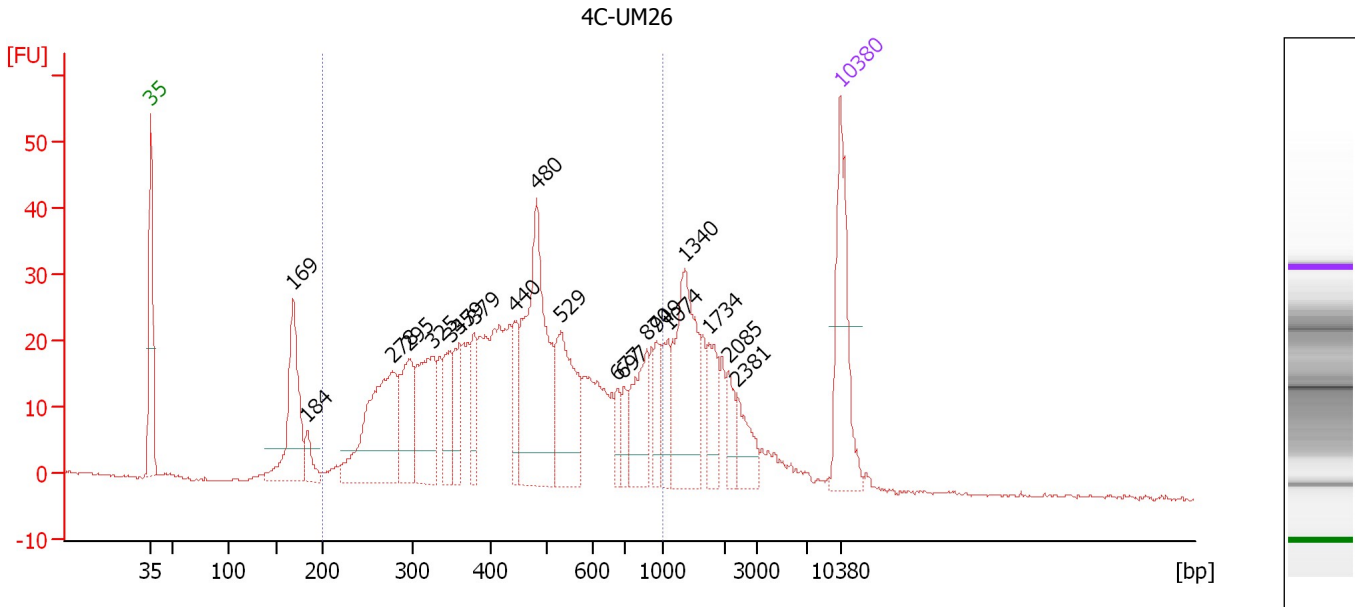
Region table for sample 9 : 4C-UM1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	534	0.00	0.0	0.0	0	6.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
 Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 4C-UM26

Number of peaks found: 20 Corr. Area 1: 756.3
 Noise: 0.3

Peak table for sample 10 : 4C-UM26


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	169	123.51	1,108.4		57.45
3	184	22.30	183.8		58.86
4	278	157.35	857.9		67.58
5	295	71.38	366.0		69.20
6	325	93.01	434.0		71.58
7	347	42.25	184.4		73.37
8	359	38.32	161.8		74.29
9	379	32.07	128.4		75.86
10	440	32.78	112.8		79.87
11	480	184.86	583.2		82.14
12	529	93.11	266.5		84.63
13	677	15.98	35.8		90.37
14	697	16.31	35.5		91.02
15	870	52.81	91.9		93.35
16	949	24.15	38.6		94.38
17	1,074	27.91	39.4		95.51
18	1,340	96.26	108.9		97.19
19	1,734	31.77	27.8		99.68
20	2,085	18.10	13.2		101.63
21	2,381	24.99	15.9		102.55
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

Created: 1/16/2019 11:43:17 AM
Modified: 1/16/2019 12:29:01 PM

Electropherogram Summary Continued ...

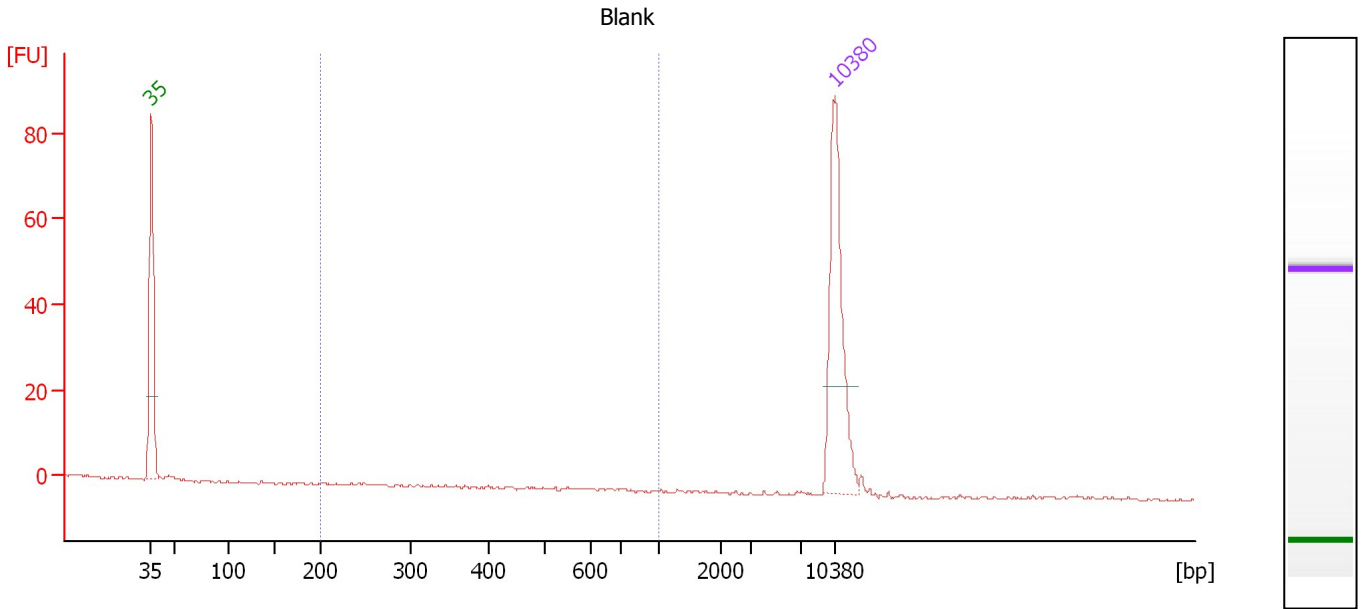
... Region table for sample 10 : 4C-UM26

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	477	1,184.05	756.3	4,498.5	 73	37.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : Blank

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 11 : Blank

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : Blank

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	0	0.00	0.0	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_002.xad

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Gel Image

