

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_001.xad

Created: 8/22/2018 2:19:38 PM
Modified: 8/22/2018 2:53:28 PM

Electrophoresis File Run Summary

Instrument Information:

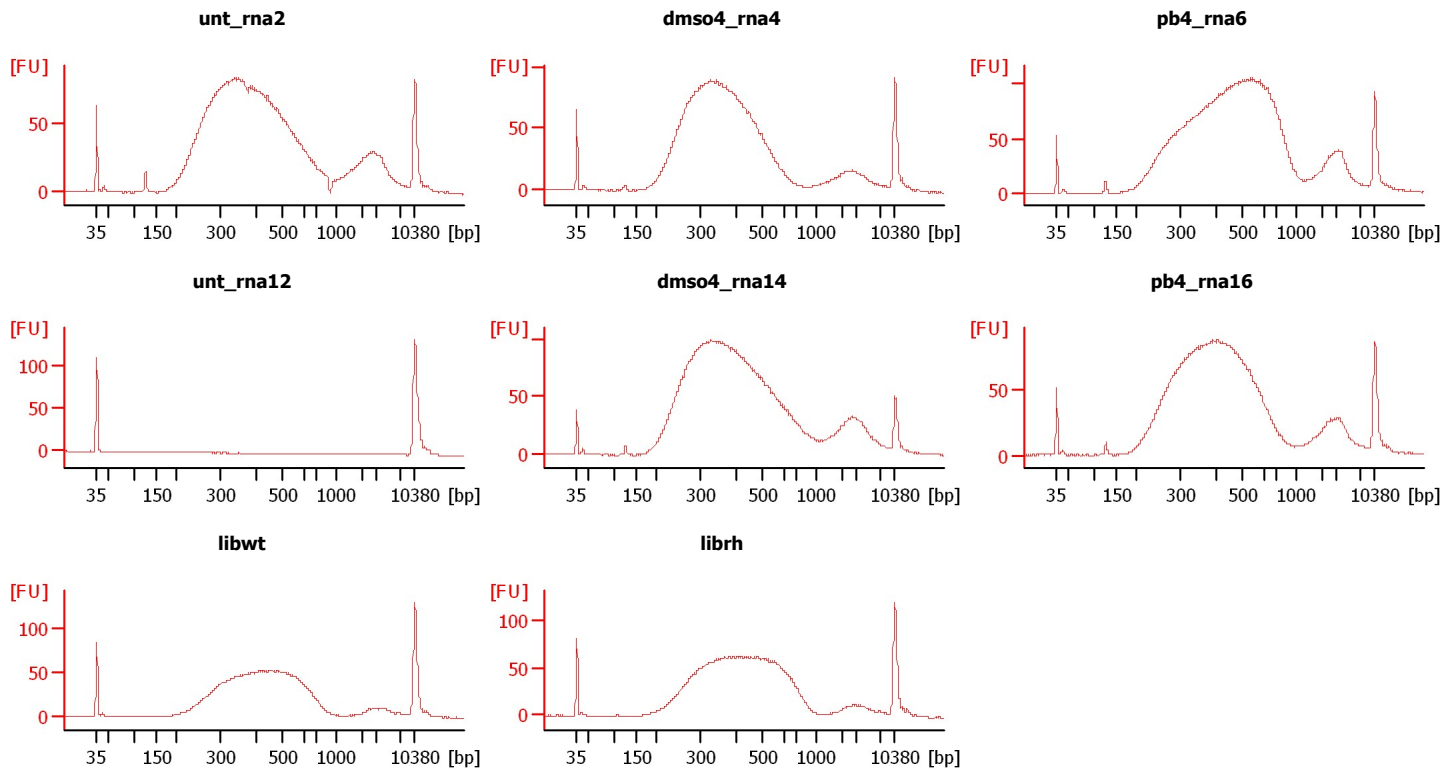
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
unt_rna2		<input type="checkbox"/>	✓			
dms04_rna4		<input type="checkbox"/>	✓			
pb4_rna6		<input type="checkbox"/>	✓			
unt_rna12		<input type="checkbox"/>	✓			
dms04_rna14		<input type="checkbox"/>	✓			
pb4_rna16		<input type="checkbox"/>	✓			
libwt		<input type="checkbox"/>	✓			
librh		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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

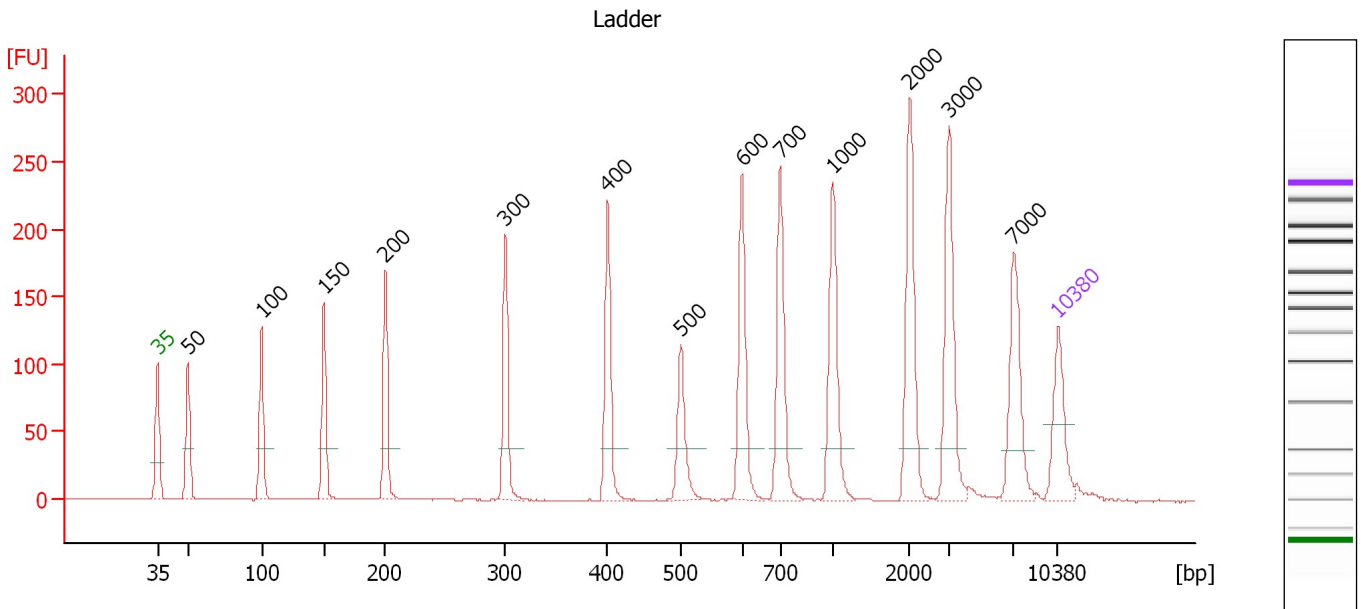
Ladder

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: 0.3

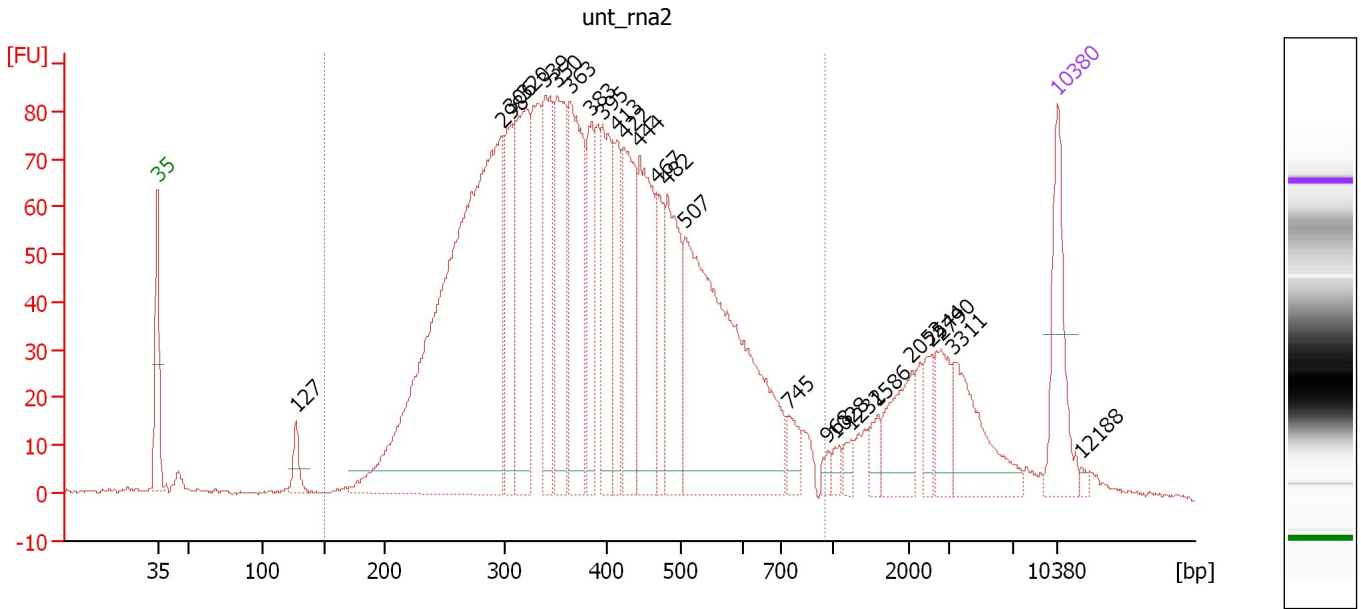
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.09
4	150	150.00	1,515.2	Ladder Peak	55.95
5	200	150.00	1,136.4	Ladder Peak	60.71
6	300	150.00	757.6	Ladder Peak	70.05
7	400	150.00	568.2	Ladder Peak	78.00
8	500	150.00	454.5	Ladder Peak	83.69
9	600	150.00	378.8	Ladder Peak	88.45
10	700	150.00	324.7	Ladder Peak	91.41
11	1,000	150.00	227.3	Ladder Peak	95.52
12	2,000	150.00	113.6	Ladder Peak	101.49
13	3,000	150.00	75.8	Ladder Peak	104.54
14	7,000	150.00	32.5	Ladder Peak	109.58
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : unt_rna2

Number of peaks found: 25 Corr. Area 1: 2,430.6
 Noise: 0.3

Peak table for sample 1 : unt_rna2

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	127	27.66	329.1		53.74
3	298	902.11	4,590.7		69.84
4	306	131.71	653.0		70.49
5	320	209.72	993.7		71.62
6	339	146.50	654.3		73.17
7	350	157.13	679.4		74.06
8	363	200.13	834.3		75.09
9	383	96.58	381.6		76.69
10	395	136.02	522.2		77.58
11	413	76.68	281.2		78.75
12	422	135.60	486.6		79.27
13	444	166.81	569.6		80.49
14	467	66.98	217.4		81.80
15	482	132.20	415.9		82.64
16	507	444.76	1,330.0		84.01
17	745	22.50	45.7		92.03
18	968	8.27	13.0		95.08
19	1,028	8.56	12.6		95.69
20	1,232	11.17	13.7		96.91
21	1,586	16.15	15.4		99.02
22	2,052	55.31	40.8		101.65
23	2,544	22.29	13.3		103.15
24	2,790	39.44	21.4		103.90
25	3,311	76.47	35.0		104.93

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Electropherogram Summary Continued ...**... Peak table for sample 1 : unt_rna2**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	12,188	0.00	0.0		114.83

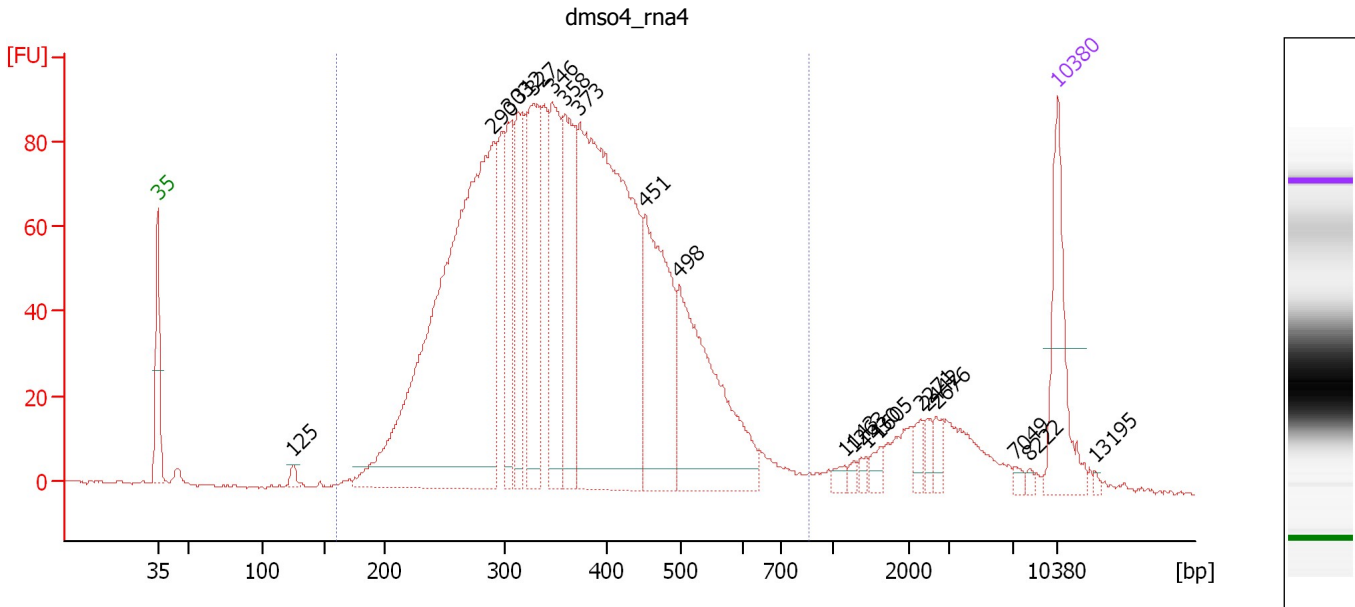
Region table for sample 1 : unt_rna2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
150	952	395	3,348.30	2,430.6	14,625.7	 88	31.6

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Electropherogram Summary Continued ...



Overall Results for sample 2 : dms04_rna4

Number of peaks found: 20 Corr. Area 1: 2,388.1
 Noise: 0.4

Peak table for sample 2 : dms04_rna4

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	125	8.83	107.3		53.50
3	290	809.81	4,230.1		69.12
4	303	96.95	485.3		70.26
5	312	97.17	471.5		71.02
6	327	184.56	854.8		72.21
7	346	147.27	644.4		73.73
8	358	165.51	700.1		74.68
9	373	597.89	2,431.7		75.82
10	451	210.31	706.6		80.90
11	498	235.59	717.2		83.56
12	1,143	6.66	8.8		96.38
13	1,263	4.32	5.2		97.09
14	1,430	5.17	5.5		98.09
15	1,605	9.95	9.4		99.13
16	2,271	10.96	7.3		102.31
17	2,442	8.74	5.4		102.84
18	2,676	10.69	6.1		103.55
19	7,049	4.63	1.0		109.63
20	8,222	2.74	0.5		110.82
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,195	0.00	0.0		115.85

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

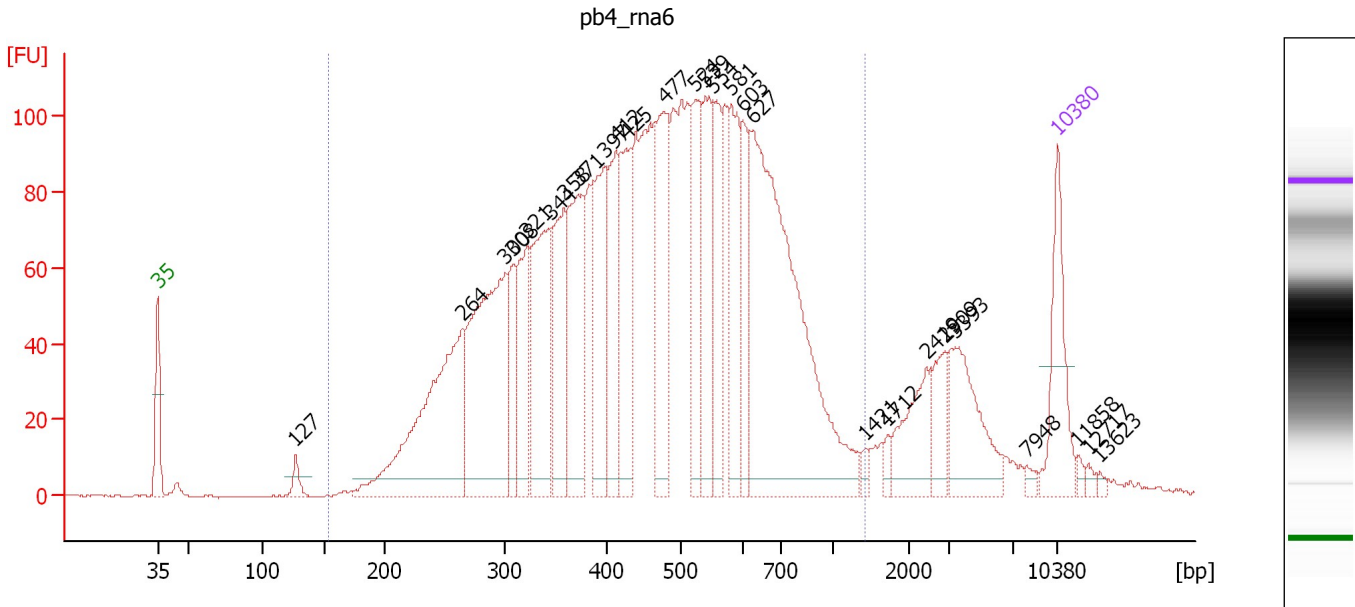
... Region table for sample 2 : dms04_rna4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
160	865	368	2,827.30	2,388.1	12,860.1	 92	27.4

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Electropherogram Summary Continued ...



Overall Results for sample 3 : pb4_rna6

Number of peaks found: 27 Corr. Area 1: 3,115.7
 Noise: 0.3

Peak table for sample 3 : pb4_rna6

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	127	18.72	223.3		53.72
3	264	339.71	1,948.2		66.70
4	300	323.23	1,633.2		70.03
5	308	69.99	344.6		70.66
6	321	109.82	518.2		71.72
7	344	184.98	814.4		73.56
8	358	145.46	616.5		74.62
9	371	162.02	660.8		75.73
10	397	154.03	587.9		77.76
11	412	114.02	419.4		78.68
12	425	135.01	480.8		79.45
13	477	169.98	539.6		82.39
14	524	106.96	309.6		84.81
15	539	118.24	332.5		85.53
16	554	88.88	243.1		86.26
17	581	112.79	294.0		87.56
18	603	78.32	196.9		88.52
19	627	494.90	1,195.9		89.25
20	1,421	7.28	7.8		98.03
21	1,712	8.64	7.6		99.77
22	2,419	61.85	38.7		102.77
23	2,909	37.30	19.4		104.26
24	3,393	88.78	39.6		105.03
25	7,948	5.51	1.0		110.54

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Electropherogram Summary Continued ...

... Peak table for sample 3 : pb4_rna6

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	11,858	0.00	0.0		114.50
28	12,717	0.00	0.0		115.37
29	13,623	0.00	0.0		116.28

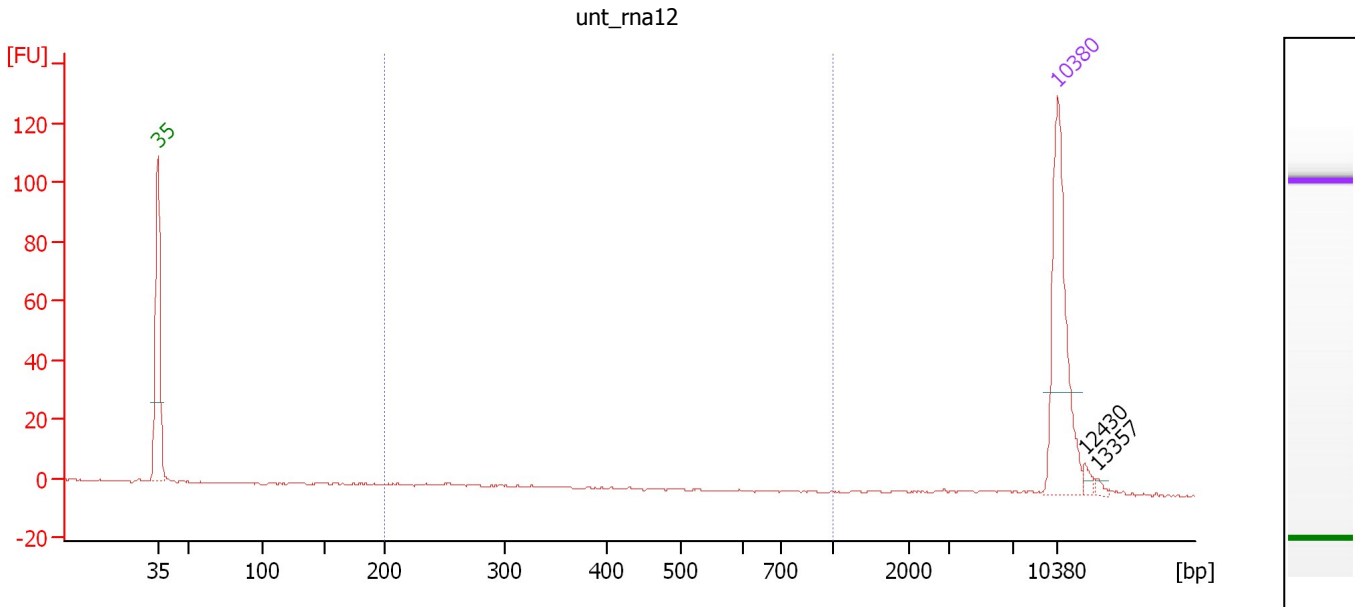
Region table for sample 3 : pb4_rna6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
154	1,416	481	3,578.79	3,115.7	13,497.4	91	36.7

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Electropherogram Summary Continued ...



Overall Results for sample 4 : unt_rna12

Number of peaks found: 2 Corr. Area 1: 6.6
 Noise: 0.3

Peak table for sample 4 : unt_rna12

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
3	12,430	0.00	0.0		115.07
4	13,357	0.00	0.0		116.01

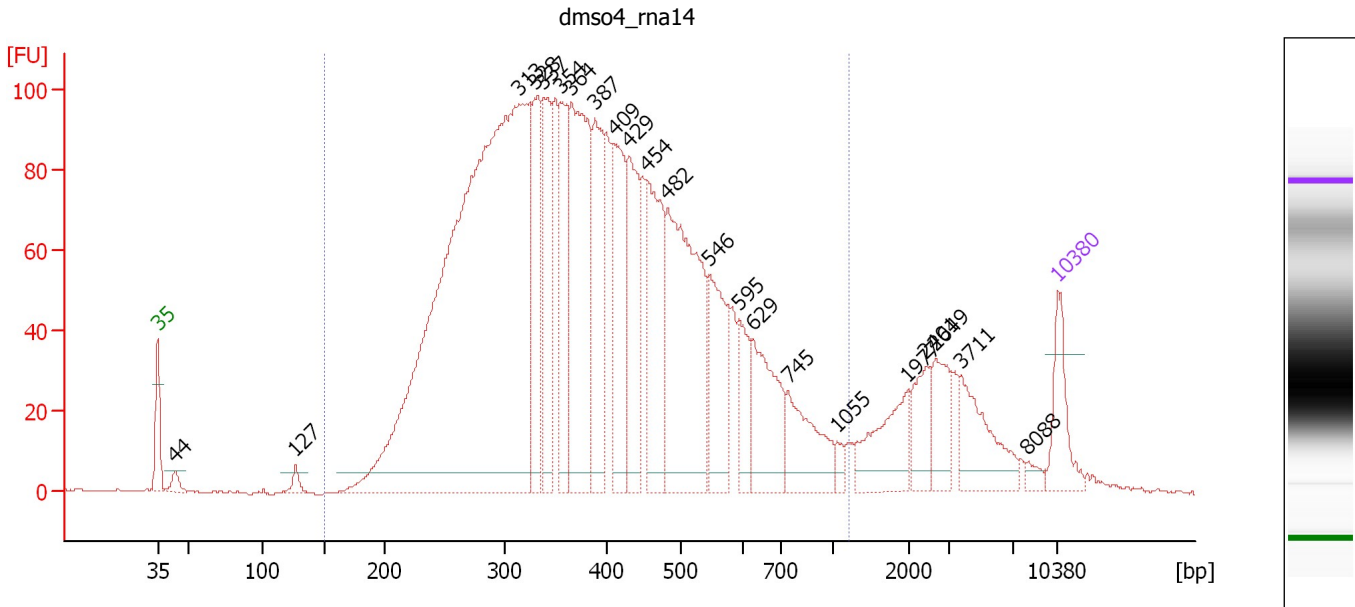
Region table for sample 4 : unt_rna12

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	330	5.36	6.6	28.4	18	43.3

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Electropherogram Summary Continued ...



Overall Results for sample 5 : dms04_rna14

Number of peaks found: 22 Corr. Area 1: 2,952.1
 Noise: 0.3

Peak table for sample 5 : dms04_rna14

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	44	25.36	880.1		44.36
3	127	22.35	267.1		53.69
4	313	2,343.66	11,340.7		71.09
5	328	265.22	1,223.9		72.30
6	337	229.79	1,034.4		72.96
7	354	189.18	810.4		74.32
8	364	498.46	2,075.7		75.13
9	387	241.08	943.1		76.99
10	409	252.66	936.3		78.50
11	429	236.45	834.6		79.66
12	454	268.77	896.8		81.08
13	482	511.14	1,608.1		82.64
14	546	187.65	520.9		85.87
15	595	83.96	214.0		88.19
16	629	173.67	418.6		89.30
17	745	142.12	289.2		92.02
18	1,055	17.44	25.0		95.85
19	1,977	115.34	88.4		101.35
20	2,401	67.55	42.6		102.71
21	2,649	73.78	42.2		103.47
22	3,711	114.17	46.6		105.44
23	8,088	13.40	2.5		110.68
24	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

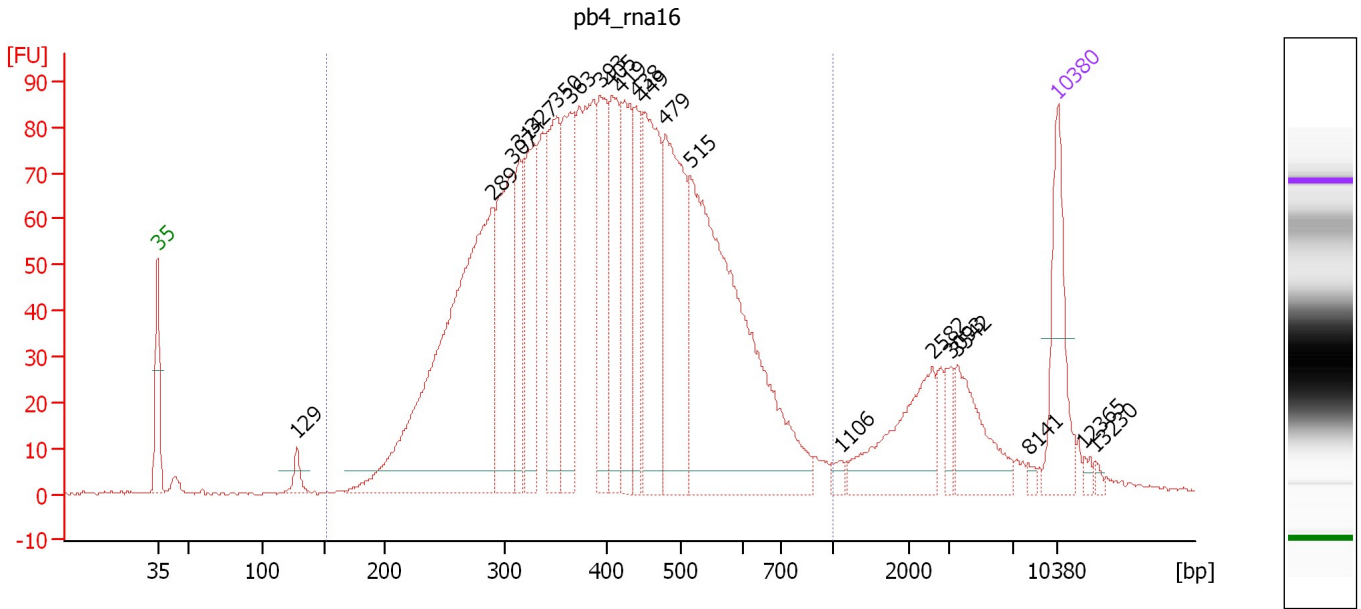
... Region table for sample 5 : dms04_rna14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
150	1,215	408	6,432.10	2,952.1	27,907.6	 90	37.0

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Electropherogram Summary Continued ...



Overall Results for sample 6 : pb4_rna16

Number of peaks found: 21 Corr. Area 1: 2,482.9
 Noise: 0.4

Peak table for sample 6 : pb4_rna16

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	129	18.71	220.4		53.87
3	289	594.89	3,119.8		69.01
4	307	184.75	911.6		70.61
5	314	90.84	439.0		71.12
6	327	141.59	655.8		72.21
7	350	158.54	685.5		74.06
8	363	135.98	566.9		75.09
9	393	118.96	459.2		77.41
10	405	123.28	461.2		78.28
11	419	120.49	436.2		79.06
12	438	84.56	292.2		80.19
13	449	186.15	627.6		80.81
14	479	221.76	701.1		82.51
15	515	488.10	1,435.3		84.41
16	1,106	8.57	11.7		96.16
17	2,582	93.49	54.8		103.26
18	3,093	15.76	7.7		104.66
19	3,542	63.80	27.3		105.22
20	8,141	3.37	0.6		110.73
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,365	0.00	0.0		115.01
23	13,230	0.00	0.0		115.88

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Electropherogram Summary Continued ...

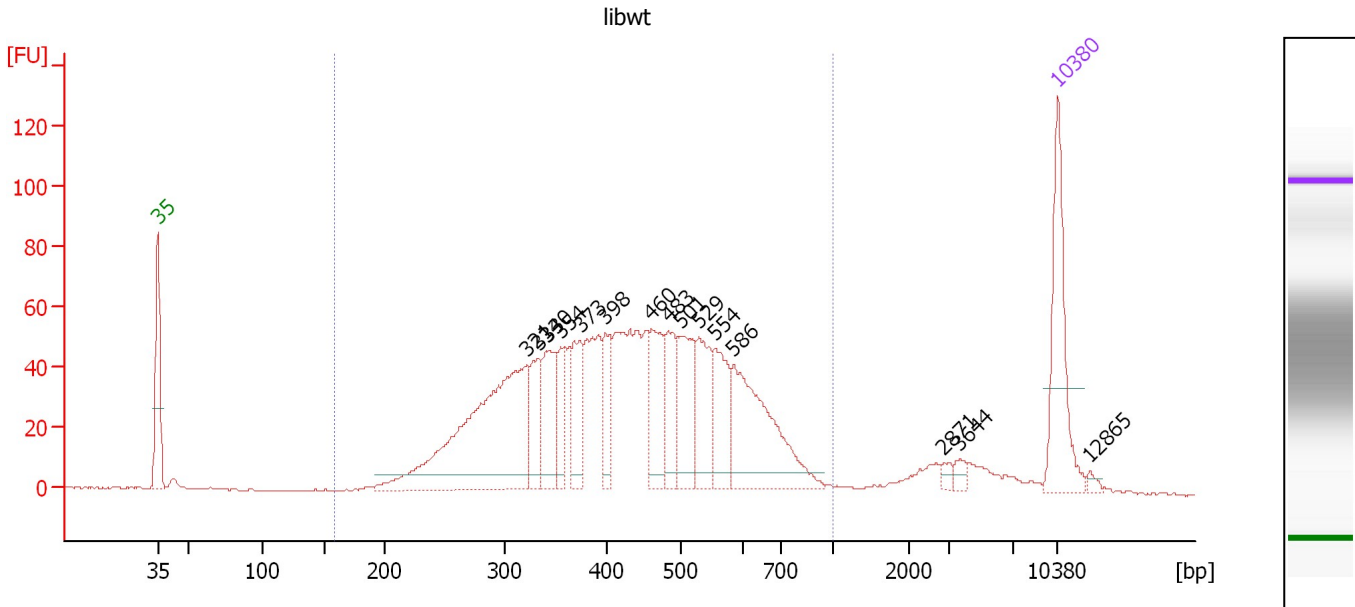
... Region table for sample 6 : pb4_rna16

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
151	1,000	413	3,105.70	2,482.9	12,971.3	 88	30.8

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Electropherogram Summary Continued ...



Overall Results for sample 7 : libwt

Number of peaks found: 15 Corr. Area 1: 1,535.0
 Noise: 0.2

Peak table for sample 7 : libwt

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	321	298.42	1,408.8		71.71
3	333	50.71	230.9		72.66
4	340	64.69	288.3		73.23
5	354	38.13	163.2		74.33
6	373	58.23	236.5		75.85
7	398	40.61	154.6		77.84
8	460	64.87	213.7		81.41
9	483	49.28	154.6		82.72
10	501	68.30	206.7		83.71
11	529	62.66	179.4		85.07
12	554	57.22	156.4		86.28
13	586	129.14	333.7		87.80
14	2,871	4.86	2.6		104.15
15	3,644	5.65	2.3		105.35
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,865	0.00	0.0		115.51

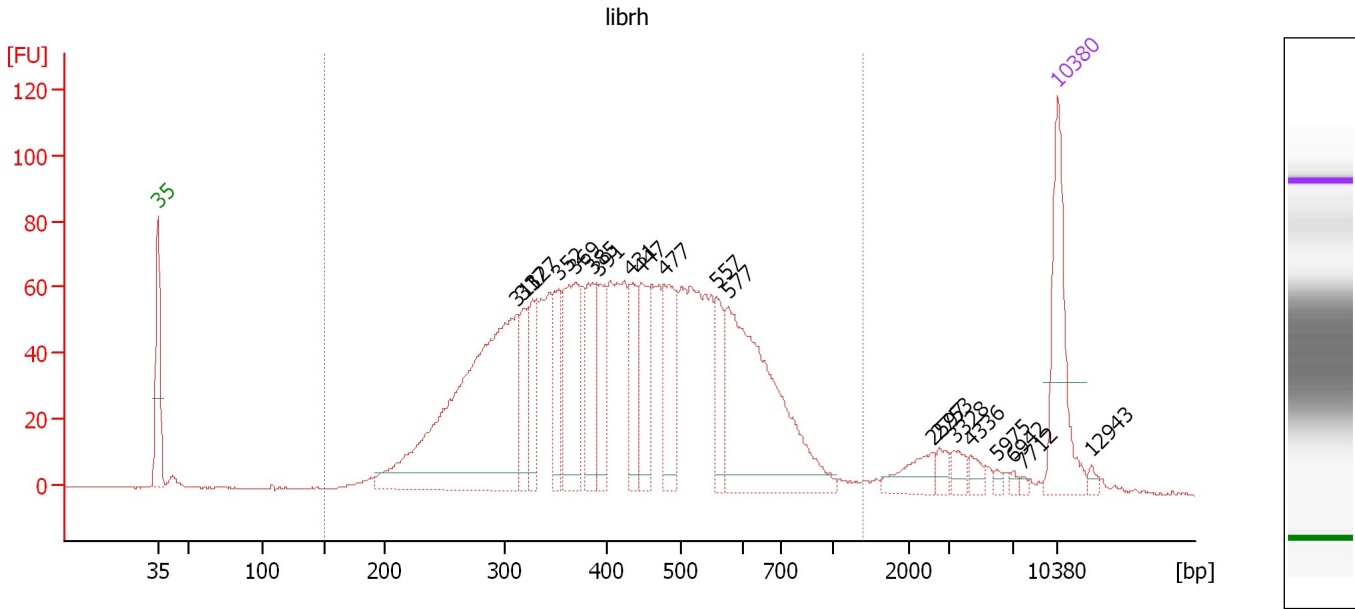
Region table for sample 7 : libwt

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
158	1,000	439	1,323.75	1,535.0	5,192.6	92	29.9

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Electropherogram Summary Continued ...



Overall Results for sample 8 : librh

Number of peaks found: 20 Corr. Area 1: 1,965.2
 Noise: 0.3

Peak table for sample 8 : librh

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	311	400.48	1,948.3		70.96
3	317	49.20	234.8		71.43
4	327	50.09	232.3		72.18
5	352	50.31	216.5		74.19
6	369	103.19	424.0		75.51
7	385	66.88	263.0		76.84
8	391	47.54	184.1		77.31
9	431	49.32	173.5		79.75
10	447	62.38	211.6		80.65
11	477	70.74	224.6		82.39
12	557	36.43	99.0		86.42
13	577	232.88	611.1		87.37
14	2,597	21.97	12.8		103.31
15	2,753	8.71	4.8		103.79
16	3,328	9.96	4.5		104.95
17	4,336	7.49	2.6		106.22
18	5,975	3.11	0.8		108.29
19	6,942	2.57	0.6		109.51
20	7,712	2.20	0.4		110.30
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,943	0.00	0.0		115.59


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_001.xad

Created: 8/22/2018 2:19:38 PM
Modified: 8/22/2018 2:53:28 PM

Electropherogram Summary Continued ...

... Region table for sample 8 :

librh

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
151	1,391	442	1,704.73	1,965.2	6,777.1	 94	33.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_001.xad

Created: 8/22/2018 2:19:38 PM
Modified: 8/22/2018 2:53:28 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_001.xad

Created: 8/22/2018 2:19:38 PM
Modified: 8/22/2018 2:53:28 PM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.