

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

Created: 10/23/2017 2:34:19 PM
Modified: 10/23/2017 3:15:37 PM

Electrophoresis File Run Summary

Instrument Information:

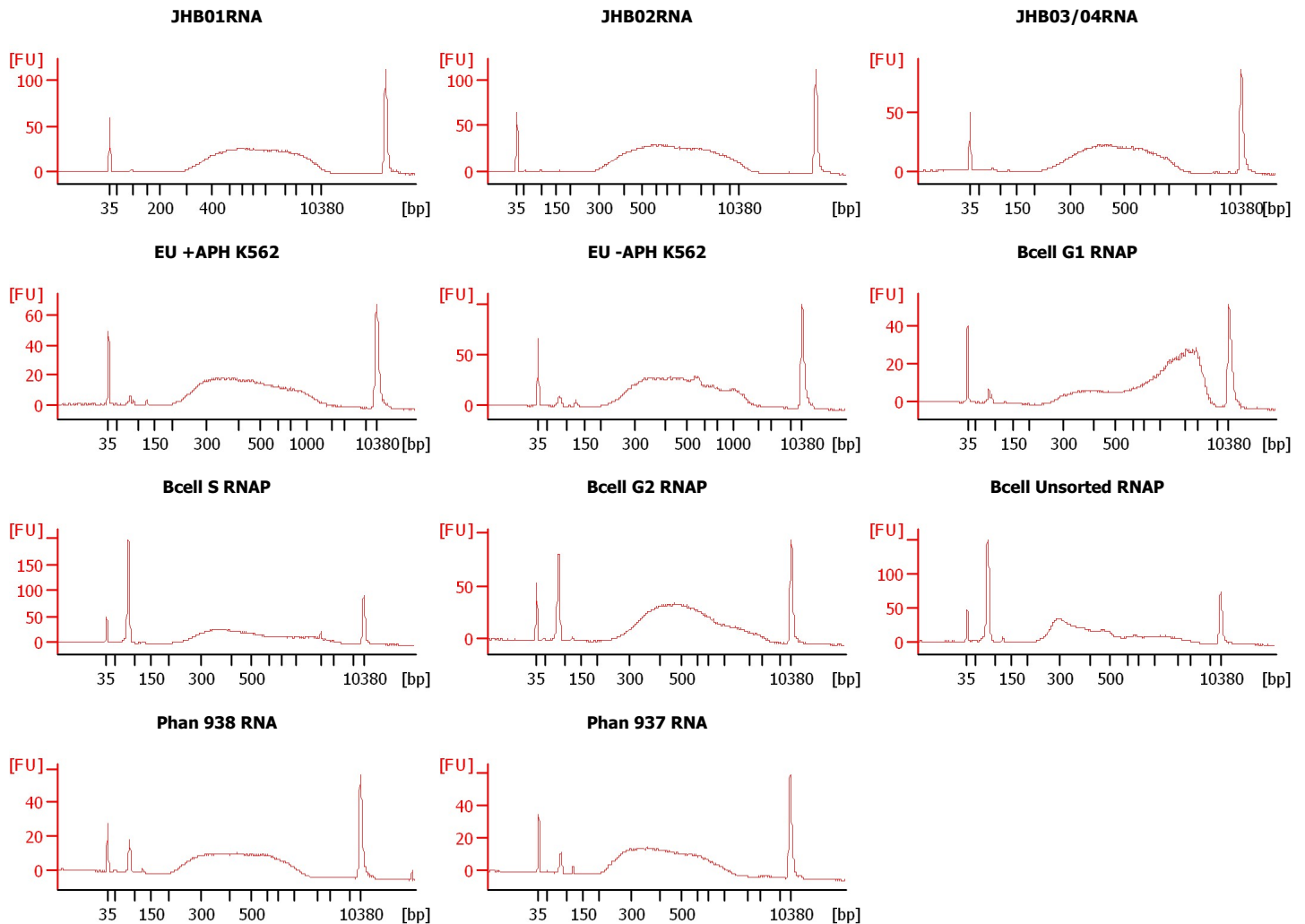
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JHB01RNA		<input type="checkbox"/>	✓			
JHB02RNA		<input type="checkbox"/>	✓			
JHB03/04RNA		<input type="checkbox"/>	✓			
EU +APH K562		<input type="checkbox"/>	✓			
EU -APH K562		<input type="checkbox"/>	✓			
Bcell G1 RNAP		<input type="checkbox"/>	✓			
Bcell S RNAP		<input type="checkbox"/>	✓			
Bcell G2 RNAP		<input type="checkbox"/>	✓			
Bcell Unsorted RNAP		<input type="checkbox"/>	✓			
Phan 938 RNA		<input type="checkbox"/>	✓			
Phan 937 RNA		<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

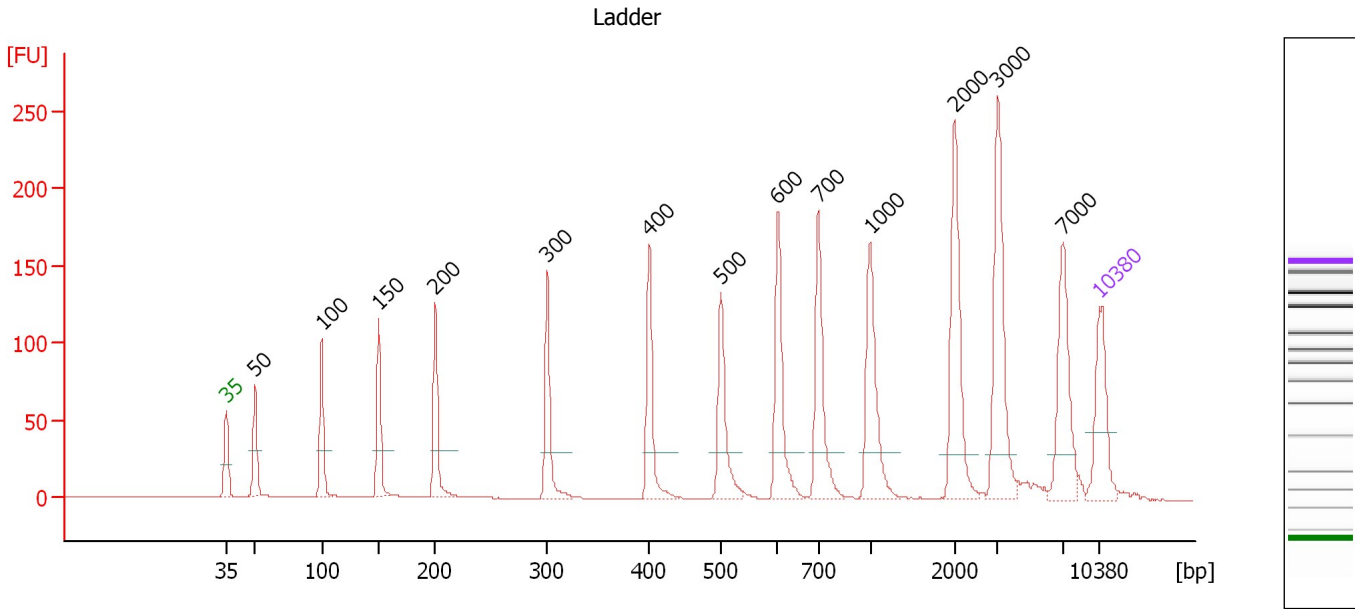
Ladder

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: 0.2

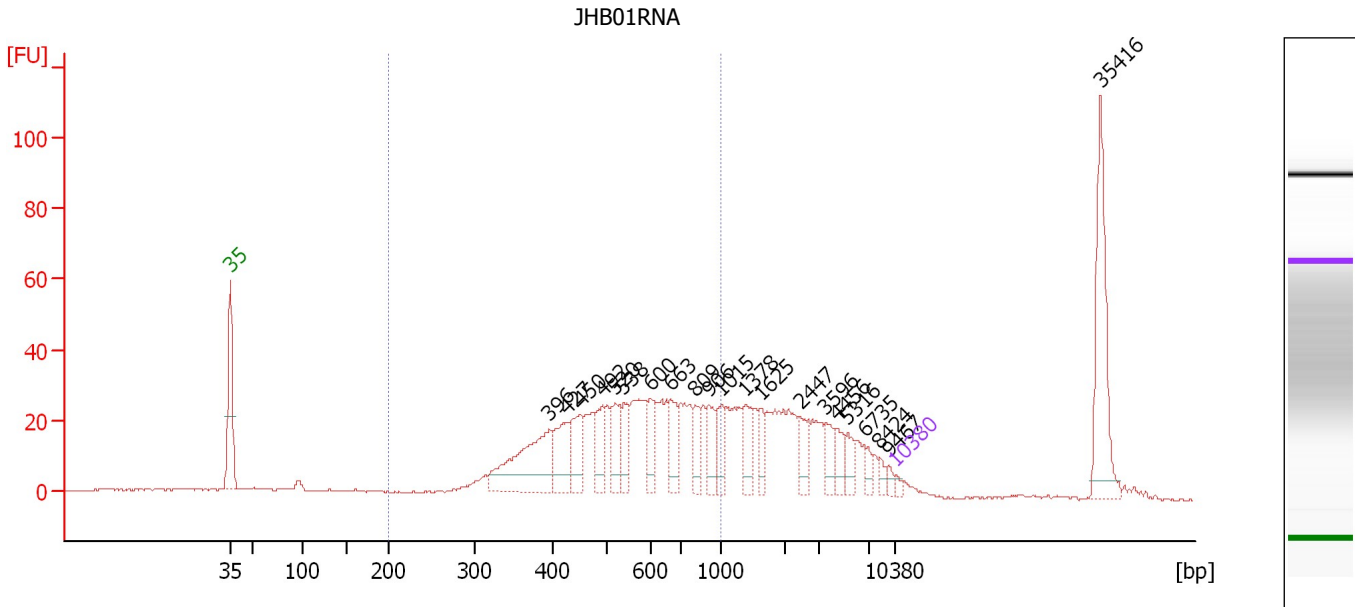
Peak table for Ladder

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	45.31
3	100	150.00	2,272.7	Ladder Peak	50.65
4	150	150.00	1,515.2	Ladder Peak	55.23
5	200	150.00	1,136.4	Ladder Peak	59.76
6	300	150.00	757.6	Ladder Peak	68.74
7	400	150.00	568.2	Ladder Peak	76.91
8	500	150.00	454.5	Ladder Peak	82.64
9	600	150.00	378.8	Ladder Peak	87.22
10	700	150.00	324.7	Ladder Peak	90.46
11	1,000	150.00	227.3	Ladder Peak	94.61
12	2,000	150.00	113.6	Ladder Peak	101.41
13	3,000	150.00	75.8	Ladder Peak	104.88
14	7,000	150.00	32.5	Ladder Peak	110.09
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : JHB01RNA

Number of peaks found: 21 Corr. Area 1: 566.3
 Noise: 0.2

Peak table for sample 1 : JHB01RNA

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	396	2,779.41	10,629.5		76.60
3	427	1,168.89	4,149.0		78.45
4	450	997.09	3,354.6		79.79
5	492	856.18	2,634.3		82.21
6	520	823.48	2,399.6		83.55
7	538	672.40	1,892.4		84.39
8	600	607.45	1,534.9		87.20
9	663	772.03	1,763.4		89.27
10	809	501.11	939.0		91.97
11	906	651.15	1,089.0		93.31
12	1,015	583.02	870.3		94.71
13	1,378	615.79	677.1		97.18
14	1,625	387.09	360.8		98.87
15	2,447	495.07	306.5		102.96
16	3,596	424.17	178.7		105.65
17	4,456	368.43	125.3		106.77
18	5,316	337.86	96.3		107.90
19	6,735	234.39	52.7		109.75
20	8,424	133.71	24.0		111.32
21	9,467	124.30	19.9		112.21
22	10,380	75.00	10.9	Upper Marker	113.00
23	35,416	0.00	0.0		134.54

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Electropherogram Summary Continued ...

... Region table for sample 1 :

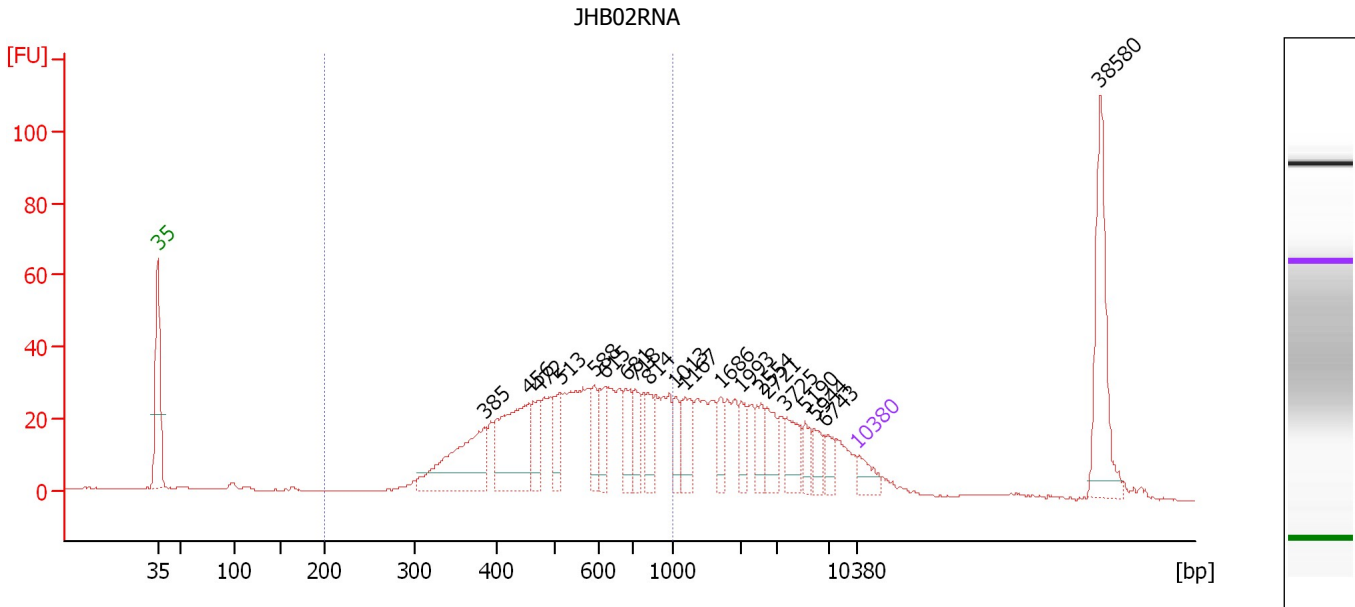
JHB01RNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	566	566.3	52,351.7	17,277.08	55	30.6

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Electropherogram Summary Continued ...



Overall Results for sample 2 : JHB02RNA

Number of peaks found: 20 Corr. Area 1: 619.7
 Noise: 0.2

Peak table for sample 2 : JHB02RNA

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	385	569.64	2,243.9		75.66
3	456	577.64	1,919.7		80.11
4	472	168.02	539.3		81.04
5	513	184.88	545.9		83.24
6	588	137.76	355.1		86.66
7	615	156.14	384.8		87.70
8	681	155.27	345.6		89.84
9	718	142.08	300.0		90.71
10	814	149.13	277.6		92.04
11	1,013	104.16	155.7		94.70
12	1,167	170.28	221.1		95.75
13	1,686	105.85	95.1		99.28
14	1,993	89.73	68.2		101.36
15	2,554	110.62	65.6		103.33
16	2,721	125.53	69.9		103.91
17	3,725	144.36	58.7		105.82
18	5,190	74.23	21.7		107.73
19	5,944	85.96	21.9		108.72
20	6,743	74.37	16.7		109.76
21	10,380	75.00	10.9	Upper Marker	113.00
22	38,580	0.00	0.0		137.26

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

... Region table for sample 2 :

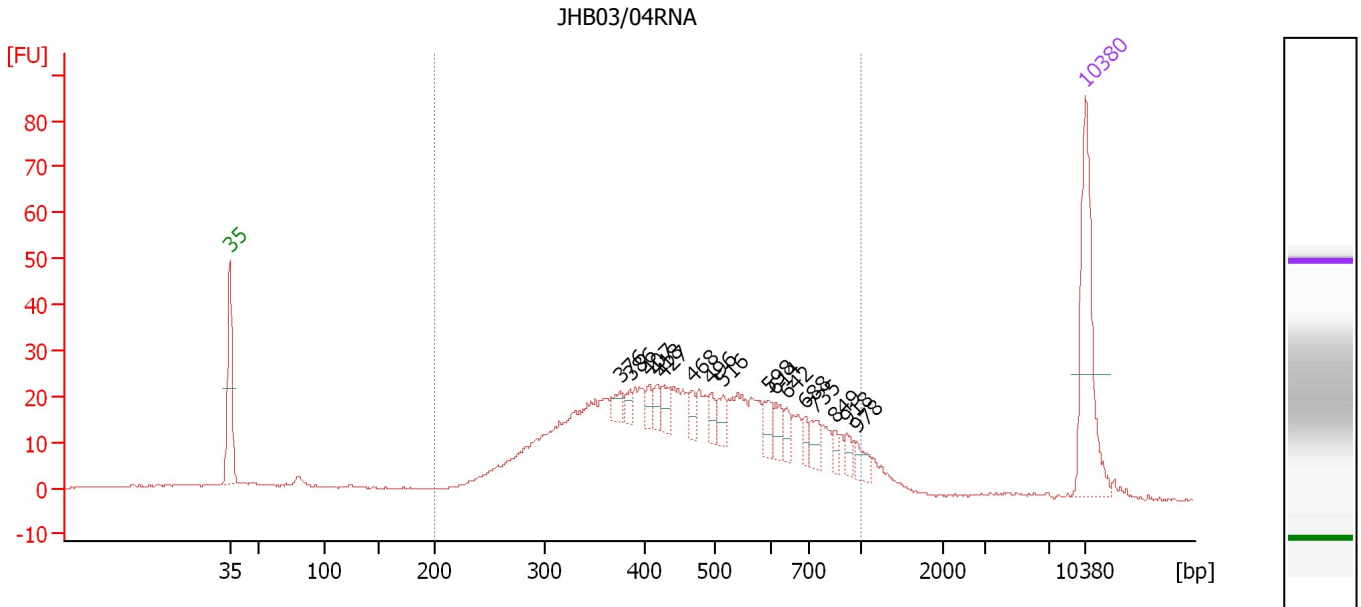
JHB02RNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	565	619.7	12,511.3	4,109.28	54	30.7

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



Overall Results for sample 3 : JHB03/04RNA

Number of peaks found: 16 Corr. Area 1: 699.5
 Noise: 0.2

Peak table for sample 3 : JHB03/04RNA

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	376	10.16	41.0		74.92
3	386	7.26	28.5		75.75
4	407	9.13	34.0		77.32
5	418	9.70	35.2		77.93
6	427	12.76	45.3		78.46
7	468	9.23	29.9		80.82
8	496	9.99	30.5		82.43
9	516	13.66	40.1		83.39
10	598	14.12	35.8		87.10
11	614	12.87	31.7		87.67
12	642	9.09	21.4		88.59
13	688	7.92	17.4		90.07
14	735	12.50	25.8		90.95
15	849	6.26	11.2		92.52
16	918	7.54	12.4		93.48
17	978	10.00	15.5		94.31
18	10,380	75.00	10.9	Upper Marker	113.00

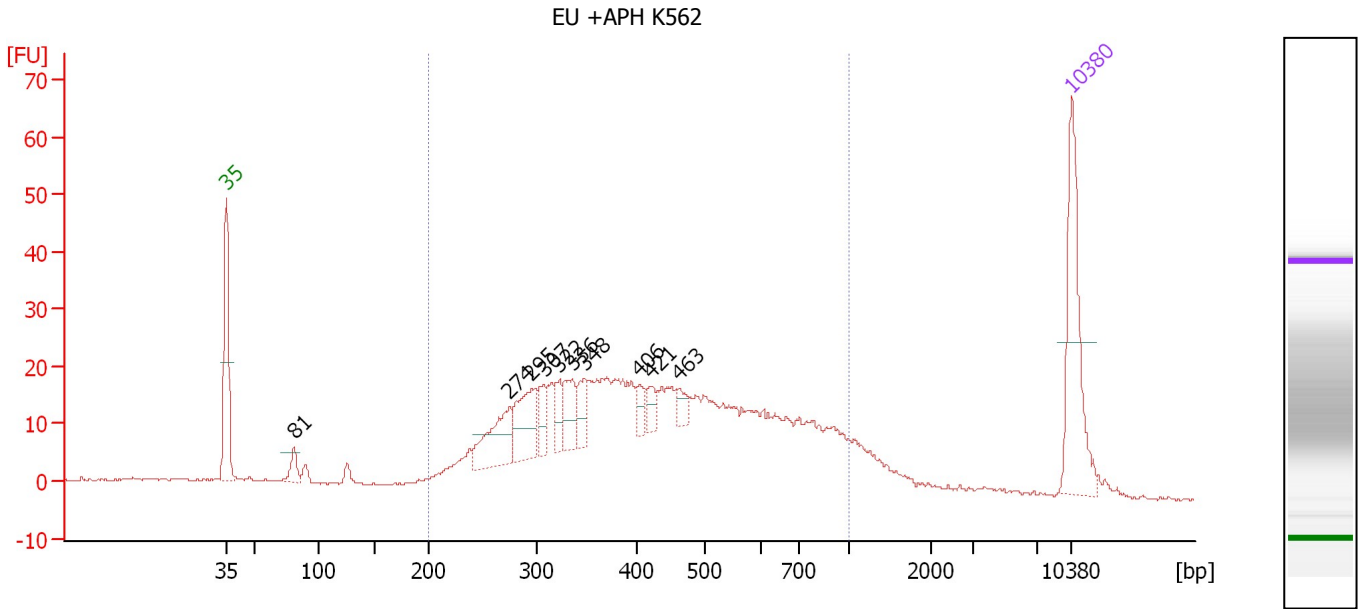
Region table for sample 3 : JHB03/04RNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	488	699.5	3,250.4	899.14	88	34.1

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Electropherogram Summary Continued ...



Overall Results for sample 4 : EU +APH K562

Number of peaks found: 10 Corr. Area 1: 647.8
 Noise: 0.2

Peak table for sample 4 : EU +APH K562

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	81	16.82	315.1		48.61
3	274	58.03	320.3		66.45
4	295	56.15	288.7		68.26
5	307	20.76	102.6		69.28
6	322	17.63	82.9		70.56
7	336	30.87	139.3		71.66
8	348	22.30	97.2		72.63
9	406	10.78	40.3		77.23
10	421	10.45	37.6		78.11
11	463	11.60	37.9		80.54
12	10,380	75.00	10.9	Upper Marker	113.00

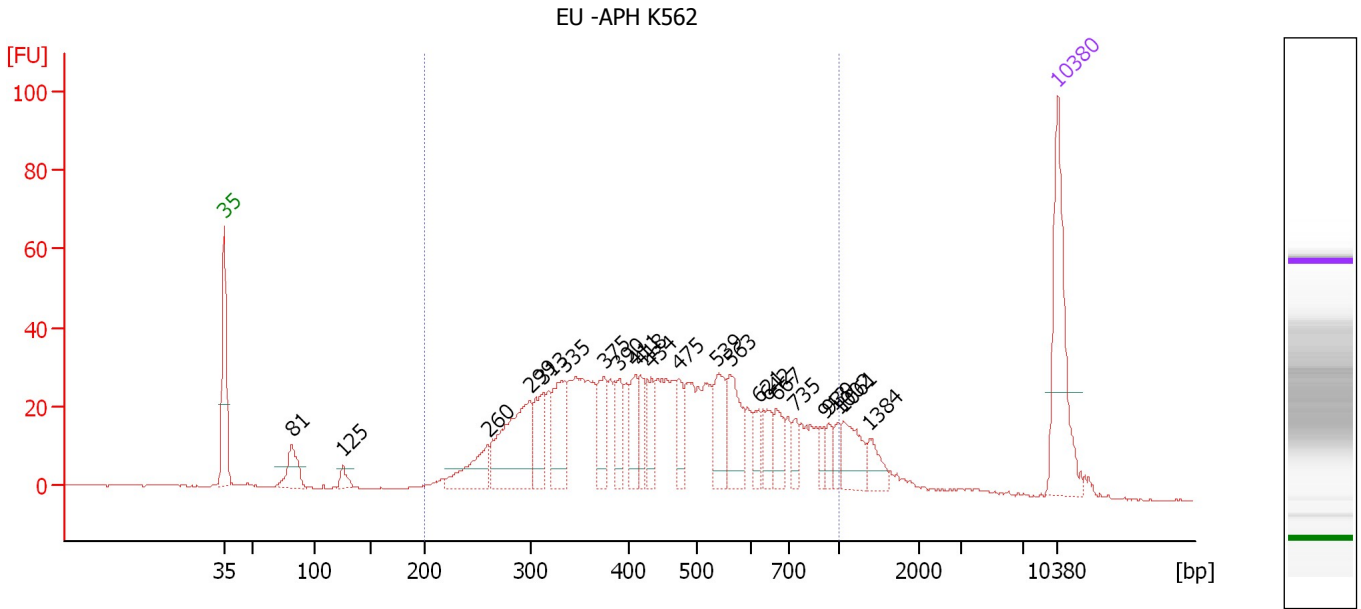
Region table for sample 4 : EU +APH K562

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	457	647.8	3,899.3	984.73	87	37.7

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



Overall Results for sample 5 : EU -APH K562

Number of peaks found: 23 Corr. Area 1: 957.9
 Noise: 0.1

Peak table for sample 5 : EU -APH K562

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	81	34.88	650.8		48.65
3	125	10.74	130.1		52.95
4	260	43.78	255.2		65.14
5	299	108.70	550.3		68.68
6	313	42.52	205.8		69.80
7	335	55.41	250.3		71.64
8	375	38.23	154.3		74.91
9	390	27.76	107.8		76.12
10	411	29.32	108.0		77.55
11	418	22.47	81.4		77.96
12	434	23.54	82.2		78.85
13	475	22.35	71.4		81.18
14	539	38.47	108.2		84.41
15	563	47.49	127.8		85.53
16	621	13.83	33.7		87.90
17	642	17.84	42.1		88.58
18	667	20.28	46.1		89.38
19	735	11.95	24.6		90.95
20	913	9.13	15.1		93.42
21	939	9.15	14.8		93.77
22	1,002	9.00	13.6		94.63
23	1,061	29.18	41.7		95.03
24	1,384	15.02	16.4		97.23
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

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Electropherogram Summary Continued ...

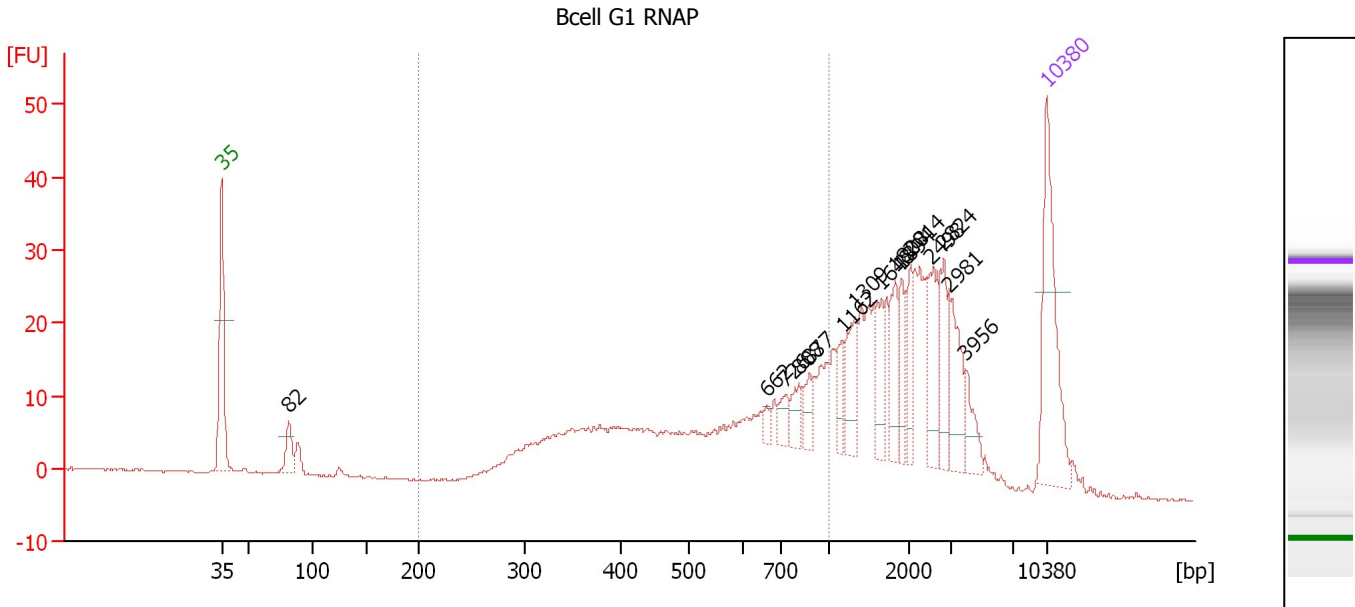
... Region table for sample 5 : EU -APH K562

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	473	957.9	3,888.9	1,030.14	87	35.9

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



Overall Results for sample 6 : Bcell G1 RNAP

Number of peaks found: 15 Corr. Area 1: 295.9
 Noise: 0.1

Peak table for sample 6 : Bcell G1 RNAP

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	82	23.74	440.0		48.70
3	662	5.57	12.7		89.24
4	726	11.32	23.6		90.83
5	808	15.03	28.2		91.96
6	877	14.33	24.8		92.91
7	1,162	15.35	20.0		95.71
8	1,309	31.05	36.0		96.71
9	1,648	22.78	20.9		99.02
10	1,808	25.48	21.4		100.10
11	1,894	19.78	15.8		100.69
12	2,014	20.76	15.6		101.46
13	2,498	35.51	21.5		103.14
14	2,824	25.83	13.9		104.27
15	2,981	33.77	17.2		104.81
16	3,956	16.80	6.4		106.12
17	10,380	75.00	10.9	Upper Marker	113.00

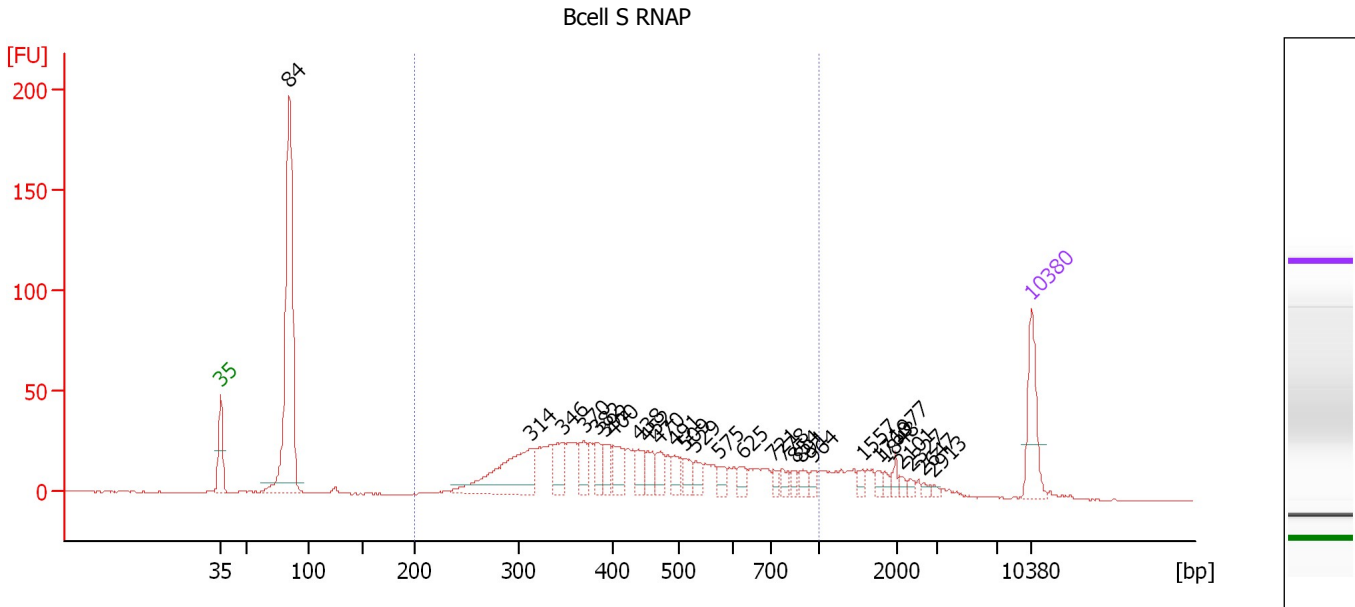
Region table for sample 6 : Bcell G1 RNAP

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	568	295.9	1,748.5	543.05	46	36.1

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Electropherogram Summary Continued ...



Overall Results for sample 7 : Bcell S RNAP

Number of peaks found: 28 Corr. Area 1: 734.8
 Noise: 0.2

Peak table for sample 7 : Bcell S RNAP

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	84	639.87	11,545.5		48.94
3	314	200.92	970.9		69.85
4	346	63.82	279.7		72.47
5	370	46.65	191.1		74.45
6	382	37.91	150.2		75.47
7	392	38.37	148.3		76.25
8	400	53.04	201.0		76.89
9	438	36.19	125.1		79.11
10	452	34.58	115.9		79.89
11	470	30.01	96.8		80.90
12	491	26.89	82.9		82.14
13	509	27.52	81.9		83.07
14	529	22.22	63.6		83.99
15	575	18.82	49.6		86.06
16	625	19.04	46.1		88.04
17	721	12.73	26.8		90.76
18	778	14.82	28.9		91.54
19	854	11.62	20.6		92.60
20	891	17.03	29.0		93.11
21	964	12.49	19.6		94.12
22	1,557	10.54	10.3		98.40
23	1,760	9.84	8.5		99.78
24	1,848	8.26	6.8		100.38
25	1,977	9.71	7.4		101.26

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Electropherogram Summary Continued ...

... Peak table for sample 7 :

Bcell S RNAP

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,101	6.72	4.8		101.76
27	2,327	5.92	3.9		102.55
28	2,647	5.11	2.9		103.65
29	2,913	4.02	2.1		104.57
30	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 :

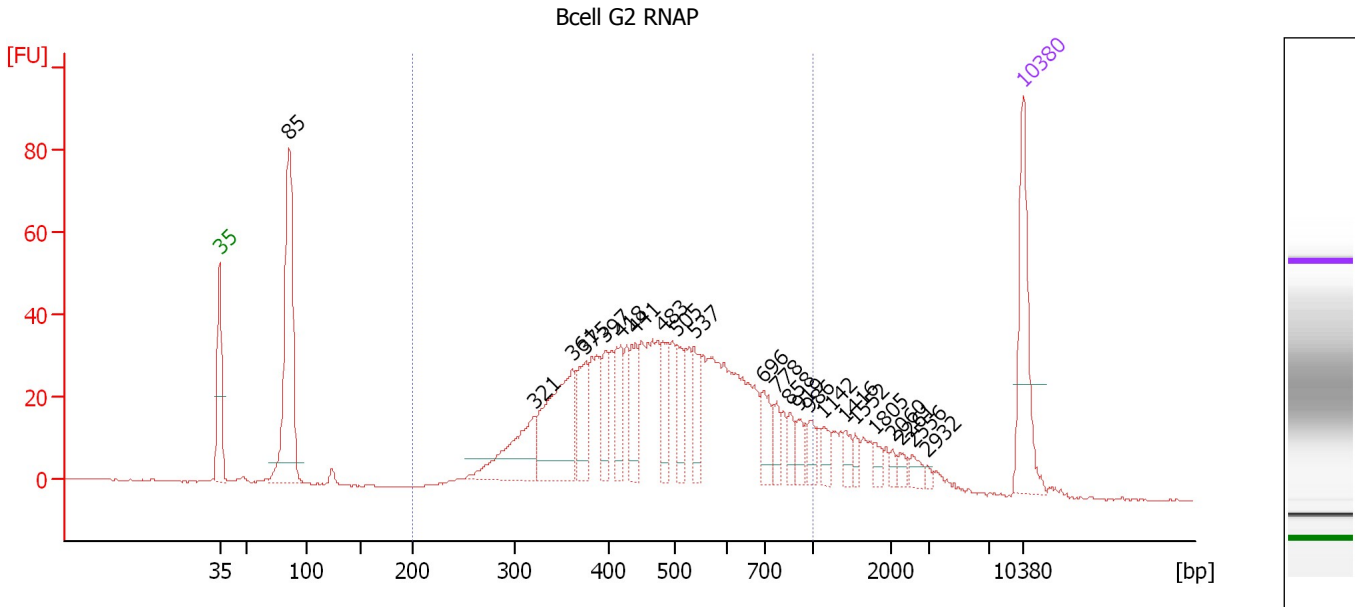
Bcell S RNAP

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	463	734.8	4,244.1	1,113.69	62	36.1

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Electropherogram Summary Continued ...



Overall Results for sample 8 : Bcell G2 RNAP

Number of peaks found: 23 Corr. Area 1: 930.3
 Noise: 0.2

Peak table for sample 8 : Bcell G2 RNAP

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	85	271.99	4,854.8		49.04
3	321	84.56	399.2		70.45
4	361	136.30	572.5		73.70
5	375	53.20	215.0		74.86
6	397	31.94	122.0		76.63
7	418	42.51	154.2		77.93
8	441	40.08	137.8		79.23
9	483	40.00	125.6		81.65
10	505	42.68	128.1		82.85
11	537	37.12	104.7		84.34
12	696	29.52	64.3		90.33
13	778	18.41	35.9		91.54
14	858	13.42	23.7		92.65
15	919	16.50	27.2		93.49
16	986	15.25	23.4		94.42
17	1,142	13.58	18.0		95.58
18	1,416	11.15	11.9		97.44
19	1,552	7.95	7.8		98.37
20	1,805	8.24	6.9		100.09
21	2,060	4.74	3.5		101.62
22	2,261	6.47	4.3		102.32
23	2,556	8.65	5.1		103.34
24	2,932	3.22	1.7		104.64
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

Created: 10/23/2017 2:34:19 PM
Modified: 10/23/2017 3:15:37 PM

Electropherogram Summary Continued ...

... Region table for sample 8 :

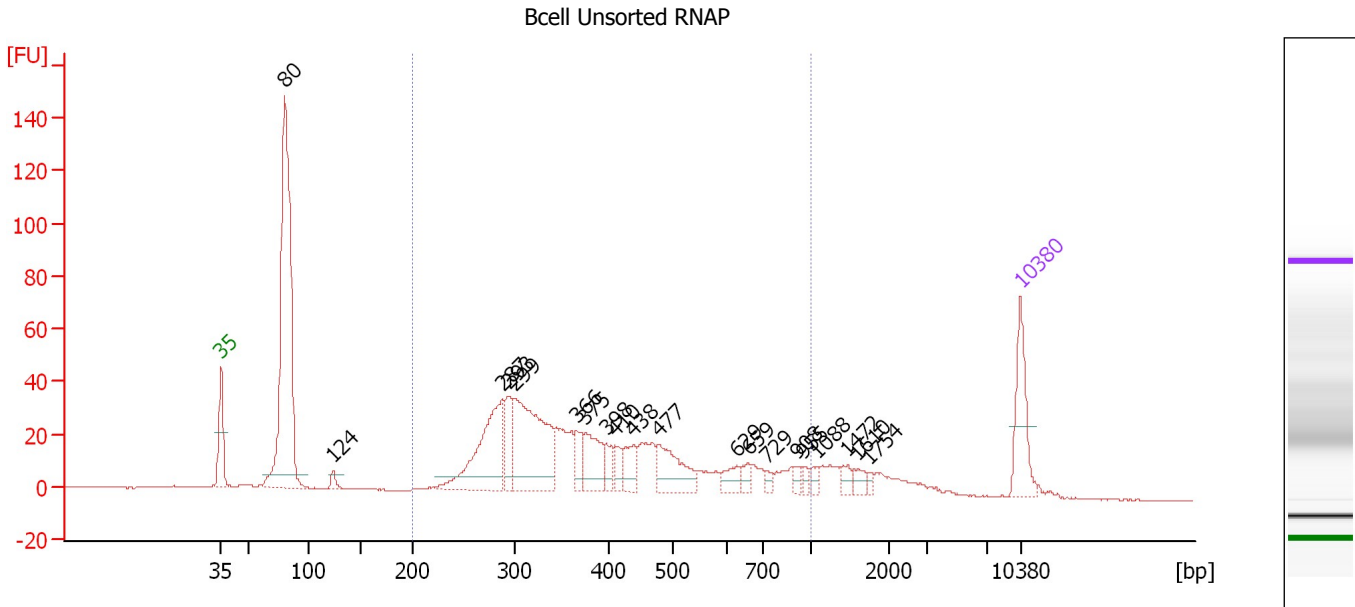
Bcell G2 RNAP

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	503	930.3	4,113.0	■ 1,204.89	76	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Bcell Unsorted RNAP

Number of peaks found: 20 Corr. Area 1: 728.6
 Noise: 0.2

Peak table for sample 9 : Bcell Unsorted RNAP

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	80	700.22	13,198.7		48.56
3	124	15.03	184.4		52.81
4	287	224.56	1,183.9		67.61
5	293	57.16	295.5		68.12
6	299	273.04	1,384.4		68.64
7	366	35.37	146.6		74.10
8	375	79.02	319.5		74.85
9	398	29.09	110.9		76.72
10	410	24.51	90.5		77.51
11	438	45.10	155.9		79.10
12	477	88.93	282.3		81.34
13	629	25.51	61.5		88.16
14	659	16.56	38.1		89.14
15	729	9.74	20.3		90.87
16	908	10.13	16.9		93.34
17	955	9.01	14.3		93.99
18	1,088	11.32	15.8		95.21
19	1,472	13.74	14.1		97.82
20	1,610	13.46	12.7		98.76
21	1,754	6.23	5.4		99.74
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

Created: 10/23/2017 2:34:19 PM
Modified: 10/23/2017 3:15:37 PM

Electropherogram Summary Continued ...

... Region table for sample 9 :

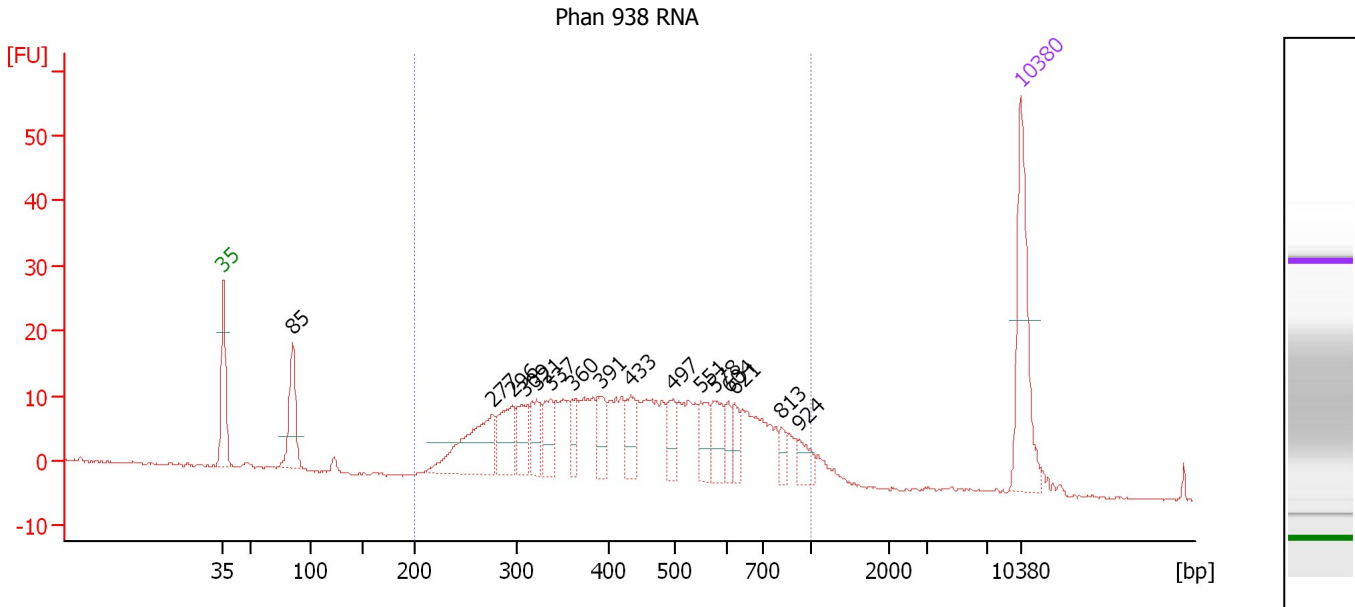
Bcell Unsorted RNAP

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	422	728.6	5,208.6	■ 1,241.73	62	38.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : Phan 938 RNA

Number of peaks found: 16 Corr. Area 1: 424.7
 Noise: 0.2

Peak table for sample 10 : Phan 938 RNA

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	85	71.43	1,268.2		49.09
3	277	92.12	504.5		66.65
4	296	50.72	259.7		68.38
5	309	34.16	167.7		69.45
6	321	31.89	150.4		70.48
7	337	29.98	134.8		71.75
8	360	19.01	80.1		73.62
9	391	29.58	114.5		76.20
10	433	28.50	99.7		78.82
11	497	22.88	69.8		82.47
12	551	25.64	70.6		84.95
13	578	28.31	74.2		86.22
14	604	14.07	35.3		87.34
15	621	15.71	38.3		87.90
16	813	10.71	20.0		92.02
17	924	16.01	26.2		93.57
18	10,380	75.00	10.9	Upper Marker	113.00

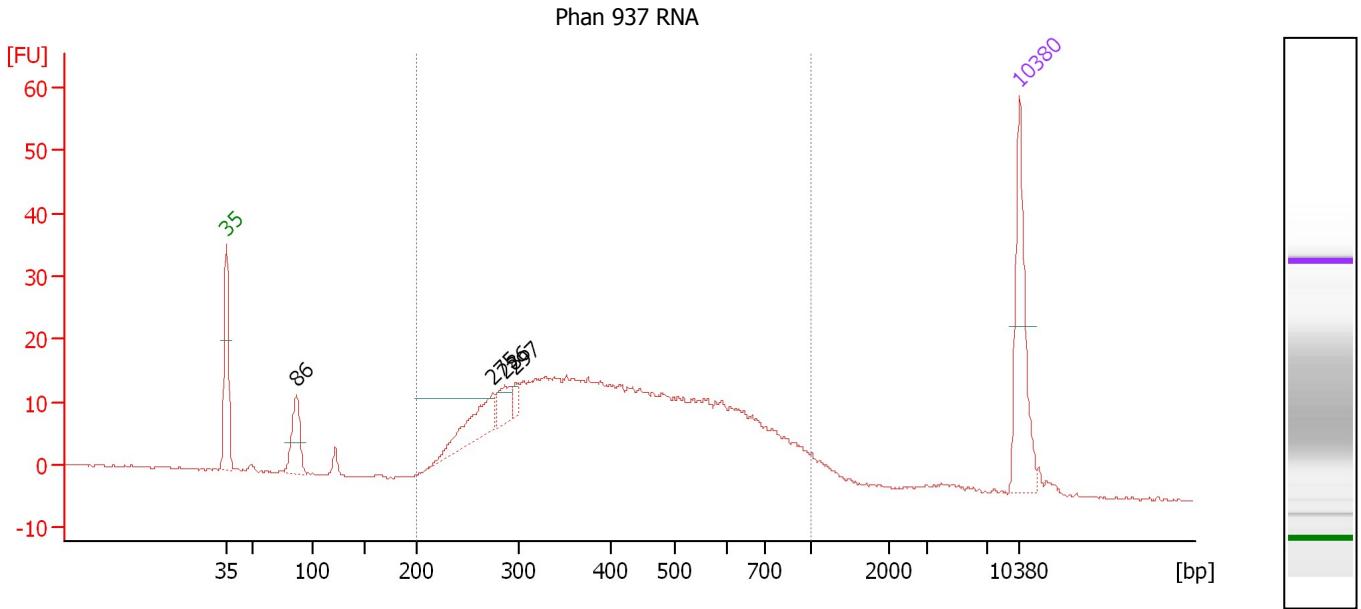
Region table for sample 10 : Phan 938 RNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	471	424.7	3,085.1	809.58	91	35.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : Phan 937 RNA

Number of peaks found: 4 Corr. Area 1: 532.1
 Noise: 0.1

Peak table for sample 11 : Phan 937 RNA

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	86	59.68	1,050.3		49.17
3	275	61.62	339.0		66.54
4	286	25.35	134.1		67.53
5	297	10.30	52.5		68.51
6	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : Phan 937 RNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	447	532.1	4,352.9	1,086.98	91	36.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-23\2017-10-23_002.xad

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Modified: 10/23/2017 3:15:37 PM

Gel Image