

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-15\2018-05-15_003.xad

Created: 5/15/2018 4:47:42 PM
Modified: 5/15/2018 5:30:33 PM

Electrophoresis File Run Summary

Instrument Information:

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

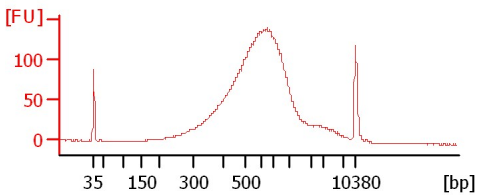
Assay Information:

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

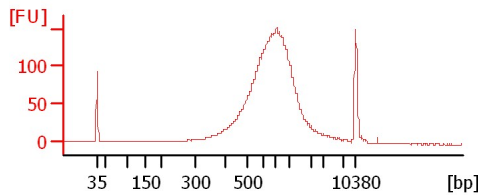
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

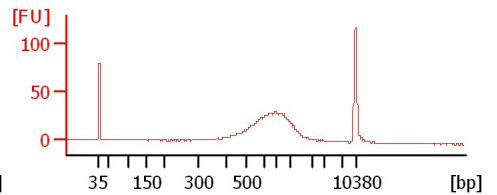
AgV 3 SS Soni with RNaseIF



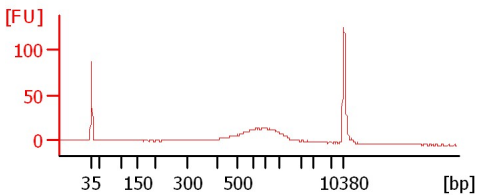
AgV 4 SS Soni with RNaseIF



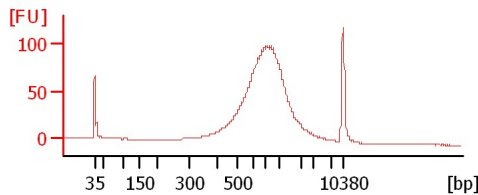
AgV 5 SS Soni with RNaseIF



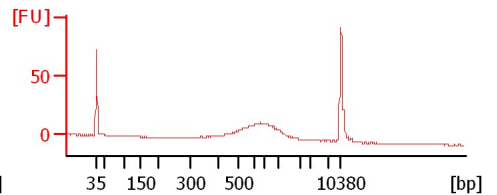
AgV 6 SS Soni with RNaseIF



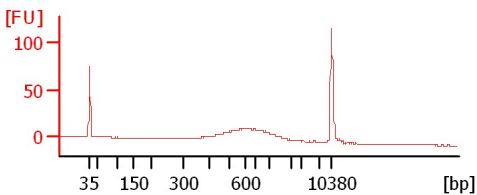
AgV 7 SS Soni with RNaseIF



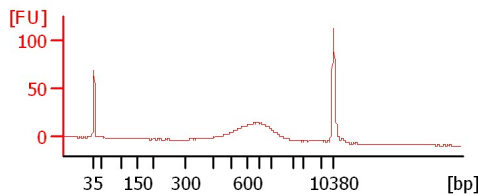
AgV 8 SS Soni with RNaseIF



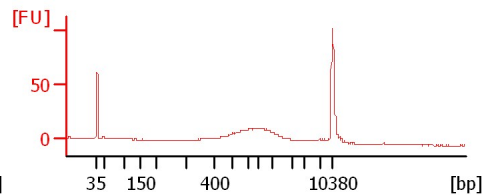
AgV 9 SS Soni with RNaseIF



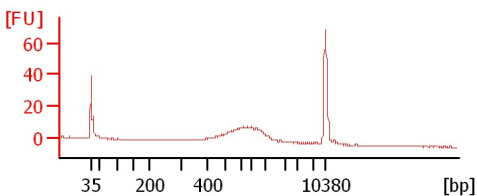
AgV 10 SS Soni with RNaseIF



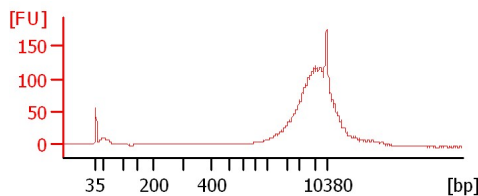
AgV 11 SS Soni with RNaseIF



AgV 12 SS Soni with RNaseIF



AgV 12 gDNA with RNaseIF



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AgV 3 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 4 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 5 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 6 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 7 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 8 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 9 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 10 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 11 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 12 SS Soni with RNaseIF		<input type="checkbox"/>	✓			
AgV 12 gDNA with RNaseIF		<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

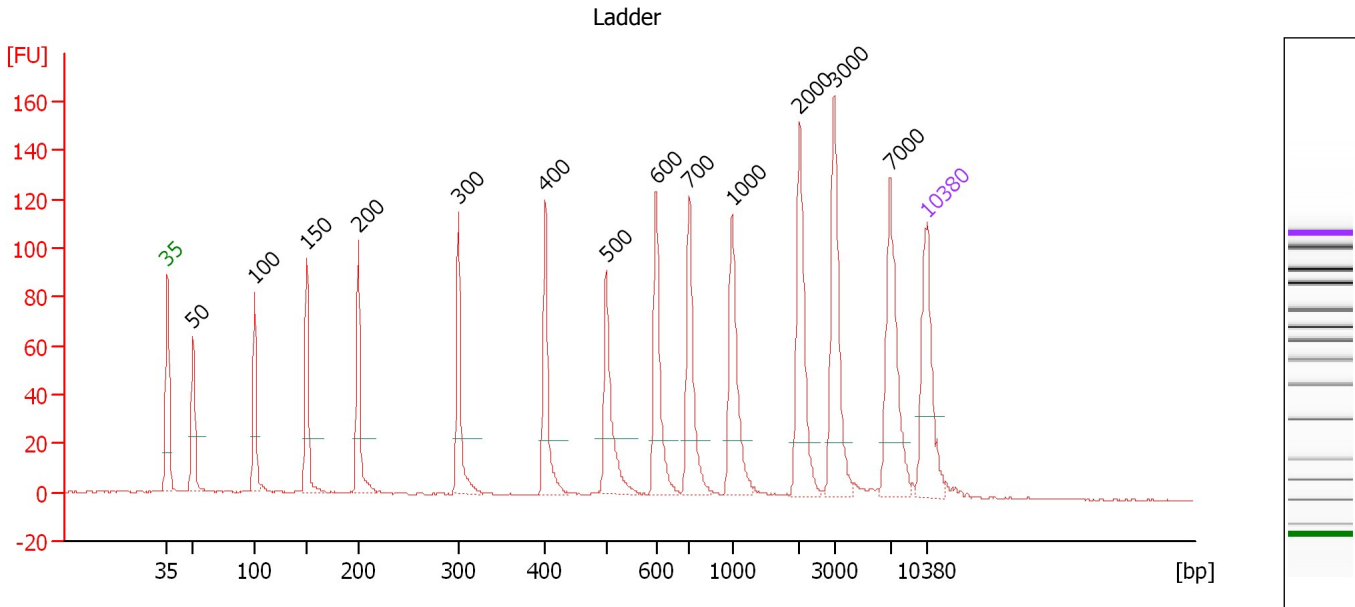
Ladder

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

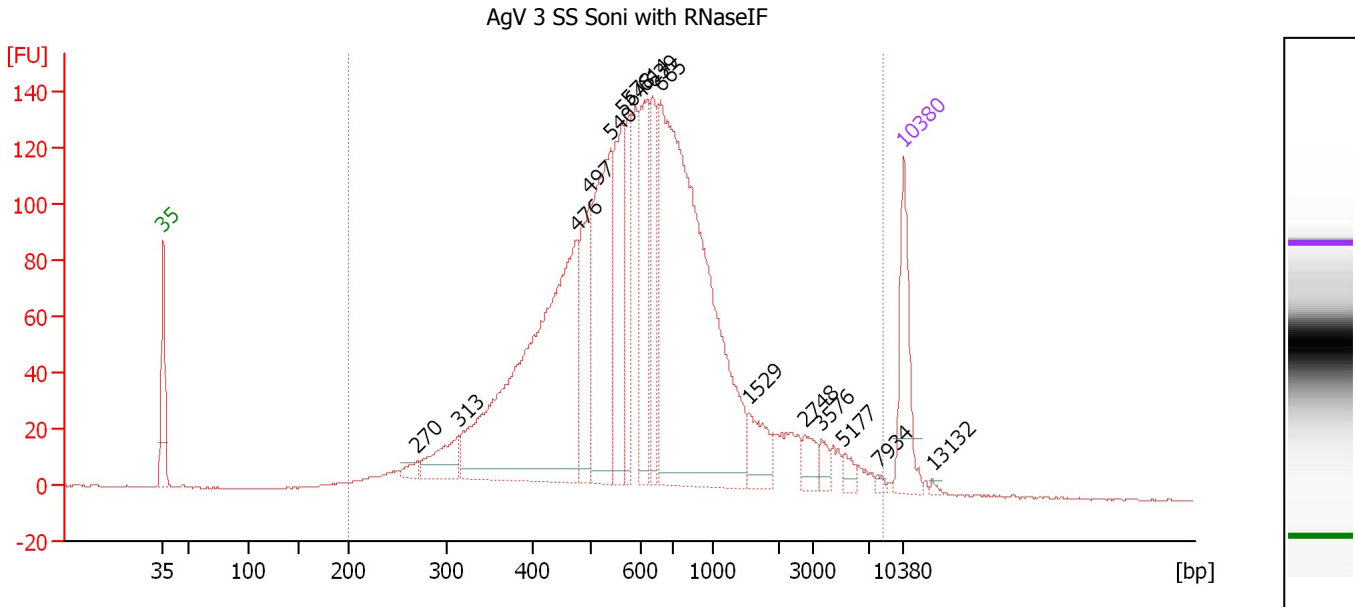
Peak table for Ladder

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	45.41
3	100	150.00	2,272.7	Ladder Peak	51.06
4	150	150.00	1,515.2	Ladder Peak	55.83
5	200	150.00	1,136.4	Ladder Peak	60.60
6	300	150.00	757.6	Ladder Peak	69.84
7	400	150.00	568.2	Ladder Peak	77.85
8	500	150.00	454.5	Ladder Peak	83.46
9	600	150.00	378.8	Ladder Peak	88.08
10	700	150.00	324.7	Ladder Peak	91.13
11	1,000	150.00	227.3	Ladder Peak	95.06
12	2,000	150.00	113.6	Ladder Peak	101.25
13	3,000	150.00	75.8	Ladder Peak	104.50
14	7,000	150.00	32.5	Ladder Peak	109.66
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : AgV 3 SS Soni with RNaseIF

Number of peaks found: 16 Corr. Area 1: 2,949.9
 Noise: 0.3

Peak table for sample 1 : AgV 3 SS Soni with RNaseIF

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	270	12.34	69.3		67.04
3	313	58.13	281.0		70.92
4	476	592.34	1,885.8		82.11
5	497	131.12	400.0		83.27
6	540	241.21	677.4		85.28
7	564	144.12	387.5		86.39
8	578	87.72	230.1		87.05
9	614	142.60	351.8		88.51
10	639	89.46	212.1		89.26
11	665	712.36	1,622.1		90.07
12	1,529	43.79	43.4		98.33
13	2,748	20.39	11.2		103.68
14	3,576	12.54	5.3		105.24
15	5,177	10.48	3.1		107.31
16	7,934	3.87	0.7		110.58
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,132	0.00	0.0		115.72

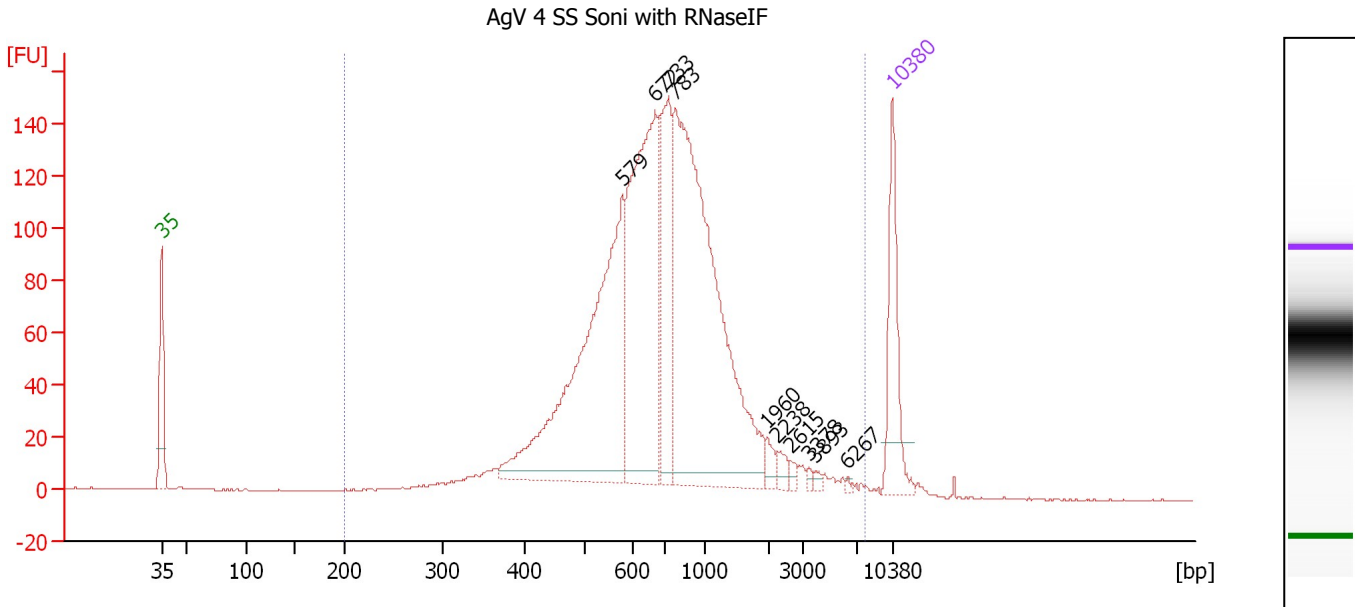
Region table for sample 1 : AgV 3 SS Soni with RNaseIF

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	8,323	847	2,649.98	2,949.9	7,391.2	99	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : AgV 4 SS Soni with RNaseIF

Number of peaks found: 10 Corr. Area 1: 2,295.7
 Noise: 0.2

Peak table for sample 2 : AgV 4 SS Soni with RNaseIF

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	579	431.46	1,128.8		87.11
3	672	345.98	779.8		90.28
4	733	124.37	257.1		91.56
5	783	564.81	1,092.2		92.22
6	1,960	10.32	8.0		101.00
7	2,238	8.93	6.0		102.02
8	2,615	4.76	2.8		103.25
9	3,378	3.14	1.4		104.98
10	3,893	3.85	1.5		105.65
11	6,267	1.78	0.4		108.71
12	10,380	75.00	10.9	Upper Marker	113.00

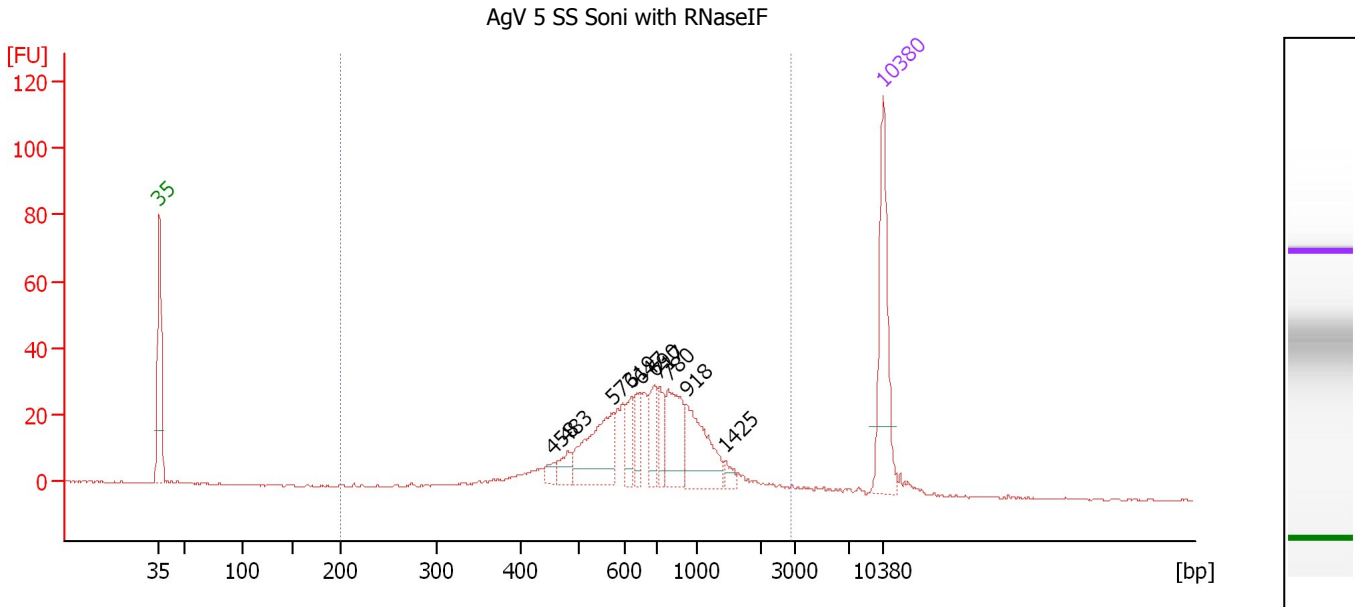
Region table for sample 2 : AgV 4 SS Soni with RNaseIF

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	7,810	895	1,702.18	2,295.7	3,921.2	99	83.1

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



Overall Results for sample 3 : AgV 5 SS Soni with RNaseIF

Number of peaks found: 10 Corr. Area 1: 473.1
 Noise: 0.2

Peak table for sample 3 : AgV 5 SS Soni with RNaseIF

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	458	8.26	27.3		81.09
3	483	16.44	51.6		82.48
4	573	73.60	194.7		86.81
5	619	22.08	54.0		88.67
6	647	20.58	48.2		89.49
7	690	26.90	59.0		90.84
8	717	21.31	45.0		91.35
9	780	54.11	105.1		92.18
10	918	61.62	101.7		93.98
11	1,425	6.97	7.4		97.69
12	10,380	75.00	10.9	Upper Marker	113.00

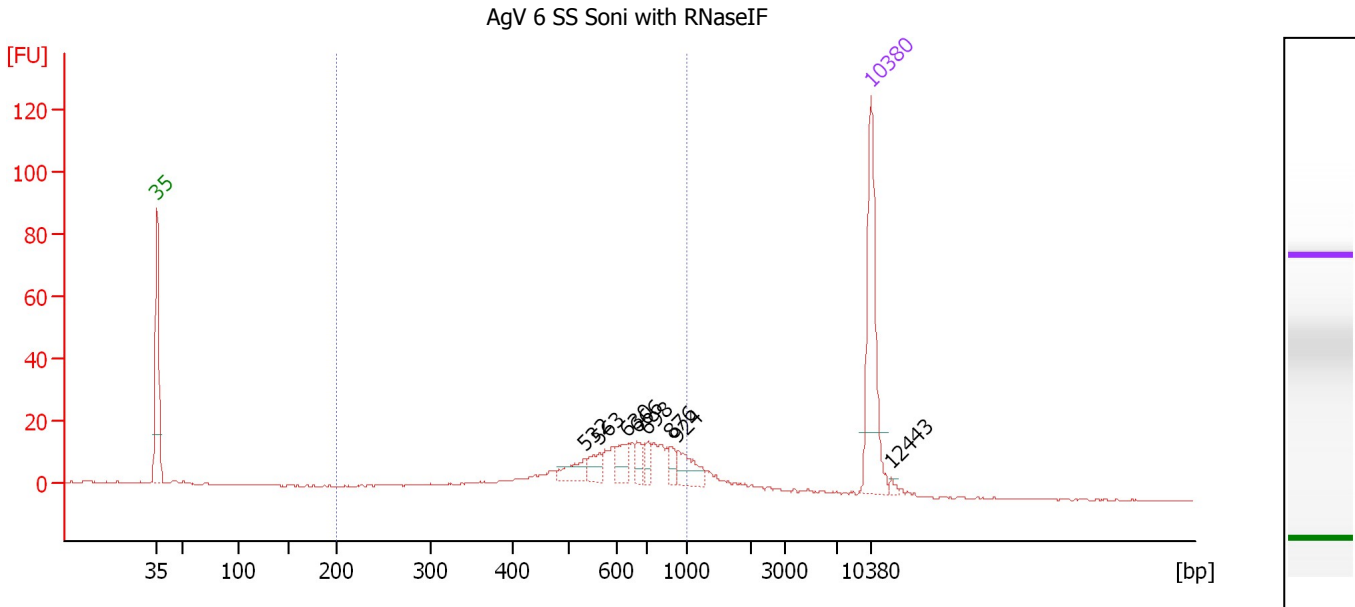
Region table for sample 3 : AgV 5 SS Soni with RNaseIF

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,866	766	461.83	473.1	1,116.7	95	47.3

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



Overall Results for sample 4 : AgV 6 SS Soni with RNaseIF

Number of peaks found: 8 Corr. Area 1: 231.3
 Noise: 0.2

Peak table for sample 4 : AgV 6 SS Soni with RNaseIF

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	532	15.56	44.3		84.96
3	563	12.54	33.7		86.37
4	630	15.27	36.7		88.99
5	666	10.91	24.8		90.09
6	698	9.76	21.2		91.08
7	876	7.29	12.6		93.43
8	924	20.40	33.5		94.06
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,443	0.00	0.0		115.04

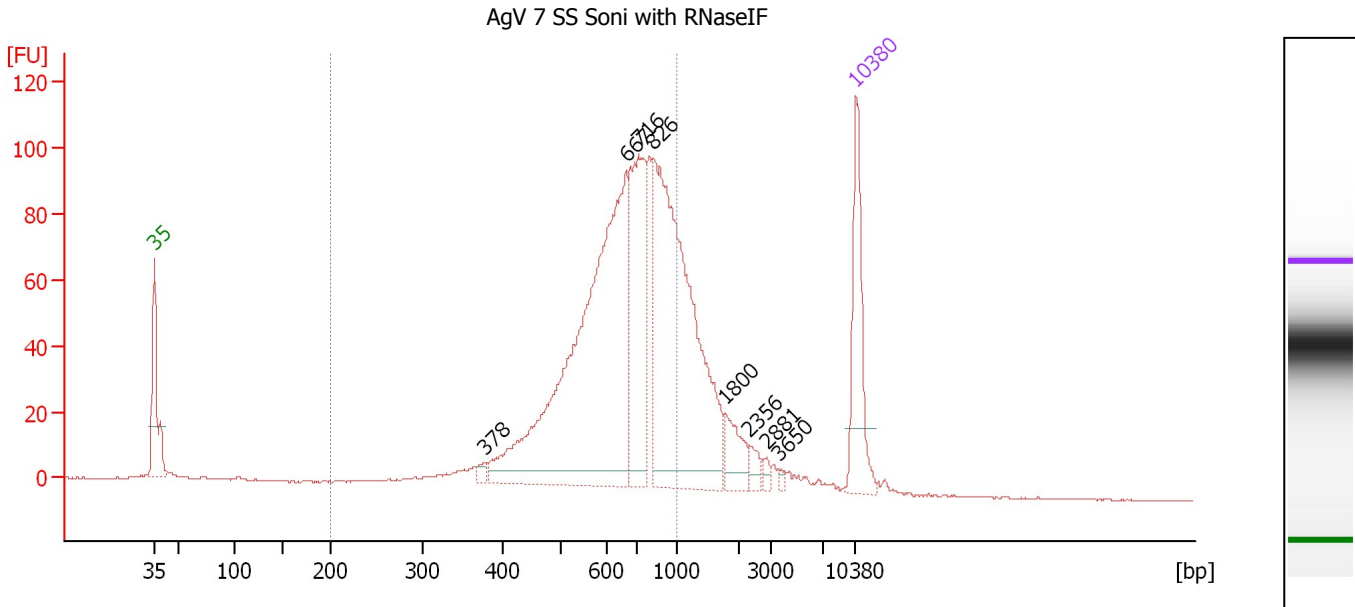
Region table for sample 4 : AgV 6 SS Soni with RNaseIF

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	622	212.32	231.3	585.4	80	27.4

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



Overall Results for sample 5 : AgV 7 SS Soni with RNaseIF

Number of peaks found: 8 Corr. Area 1: 1,187.1
 Noise: 0.2

Peak table for sample 5 : AgV 7 SS Soni with RNaseIF

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	378	6.31	25.3		76.06
3	667	521.85	1,186.0		90.11
4	716	164.87	348.9		91.33
5	826	394.52	724.0		92.77
6	1,800	30.64	25.8		100.01
7	2,356	10.25	6.6		102.41
8	2,881	5.56	2.9		104.11
9	3,650	2.89	1.2		105.33
10	10,380	75.00	10.9	Upper Marker	113.00

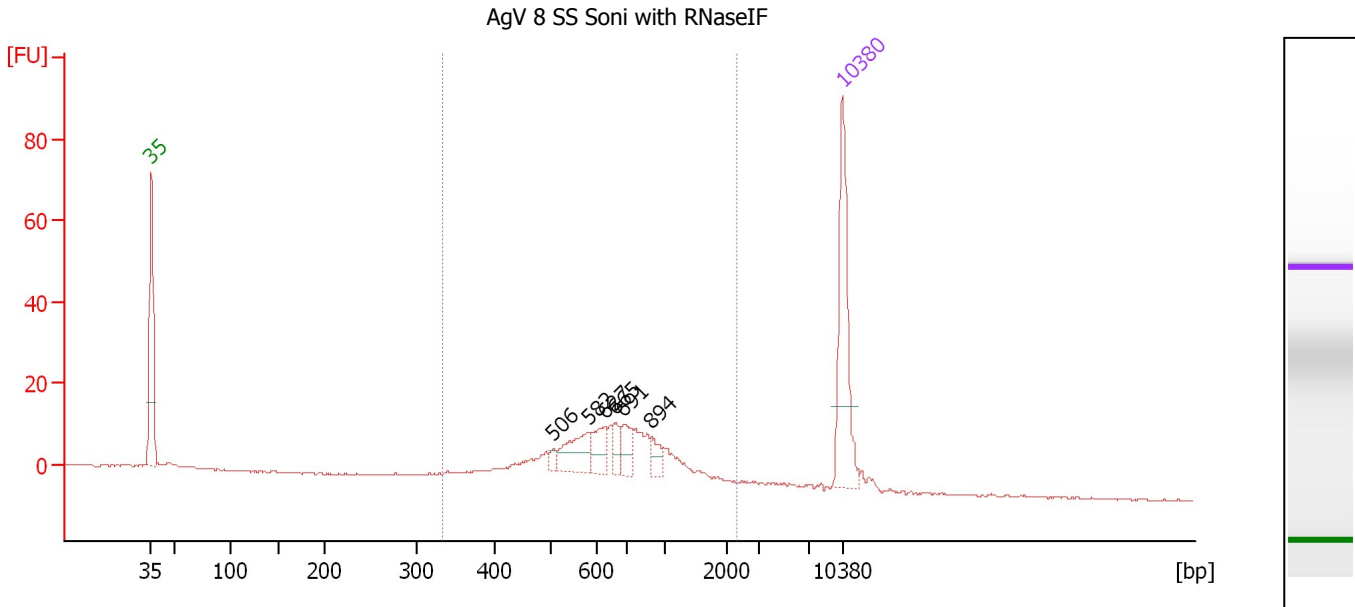
Region table for sample 5 : AgV 7 SS Soni with RNaseIF

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	662	1,032.94	1,187.1	2,614.3	76	24.9

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Electropherogram Summary Continued ...



Overall Results for sample 6 : AgV 8 SS Soni with RNaseIF

Number of peaks found: 6 Corr. Area 1: 214.3
 Noise: 0.2

Peak table for sample 6 : AgV 8 SS Soni with RNaseIF

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	506	5.50	16.5		83.73
3	582	34.09	88.8		87.24
4	627	22.90	55.3		88.91
5	665	11.67	26.6		90.04
6	691	18.81	41.2		90.85
7	894	10.76	18.2		93.66
8	10,380	75.00	10.9	Upper Marker	113.00

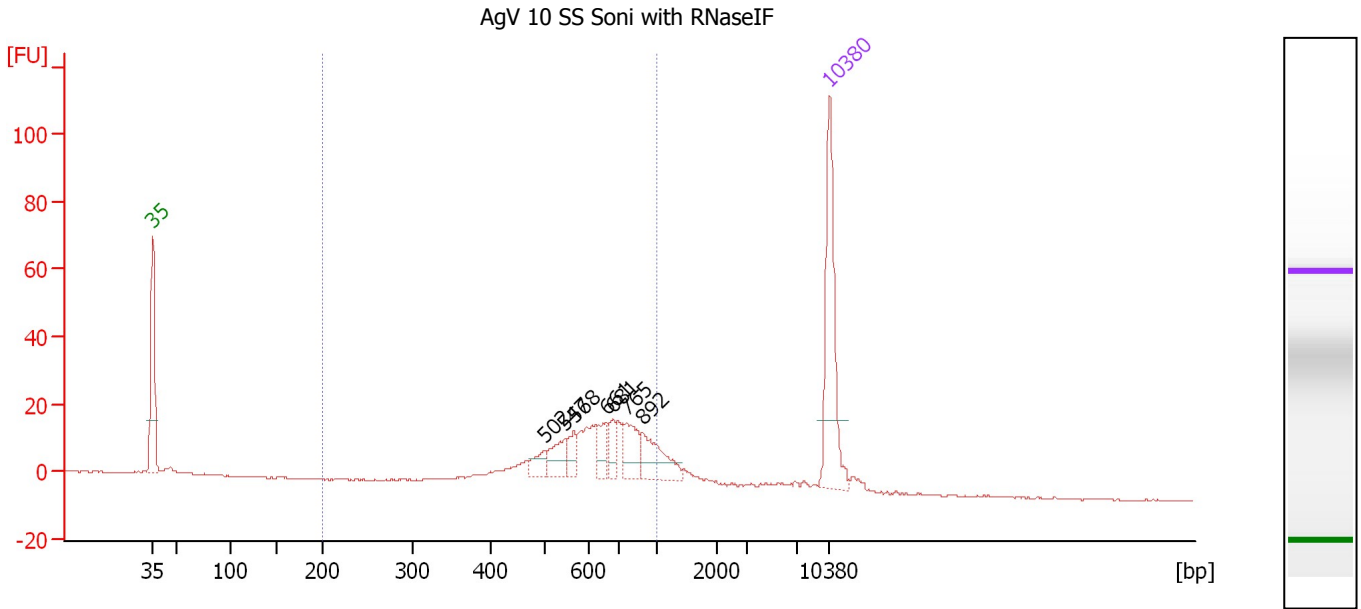
Region table for sample 6 : AgV 8 SS Soni with RNaseIF

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
333	2,308	737	240.58	214.3	583.3	89	42.9

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Electropherogram Summary Continued ...



Overall Results for sample 8 : AgV 10 SS Soni with RNaseIF

Number of peaks found: 7 Corr. Area 1: 248.0
 Noise: 0.2

Peak table for sample 8 : AgV 10 SS Soni with RNaseIF

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	502	12.51	37.8		83.54
3	547	21.64	59.9		85.64
4	568	13.75	36.7		86.58
5	661	19.83	45.4		89.94
6	681	14.46	32.2		90.55
7	765	26.17	51.8		91.98
8	892	34.29	58.3		93.64
9	10,380	75.00	10.9	Upper Marker	113.00

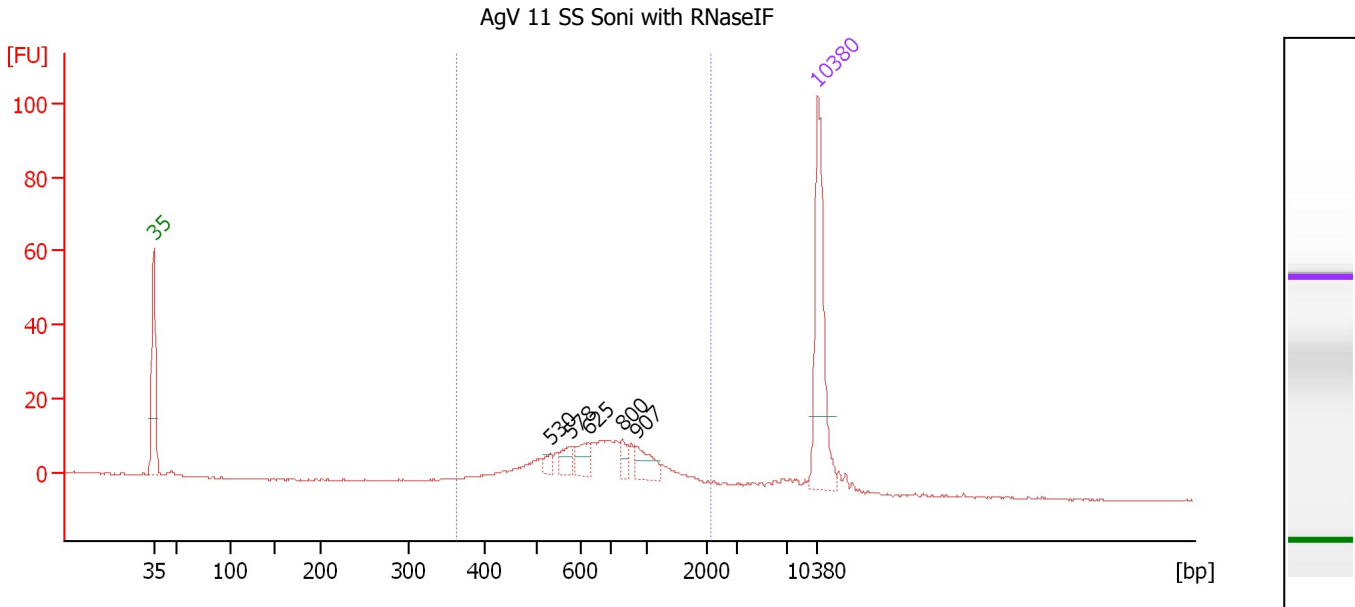
Region table for sample 8 : AgV 10 SS Soni with RNaseIF

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	640	233.00	248.0	595.6	79	24.0

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Electropherogram Summary Continued ...



Overall Results for sample 9 : AgV 11 SS Soni with RNaseIF

Number of peaks found: 5 Corr. Area 1: 183.1
 Noise: 0.2

Peak table for sample 9 : AgV 11 SS Soni with RNaseIF

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	530	5.57	15.9		84.85
3	578	10.54	27.6		87.04
4	625	14.28	34.6		88.84
5	800	8.58	16.2		92.44
6	907	16.47	27.5		93.84
7	10,380	75.00	10.9	Upper Marker	113.00

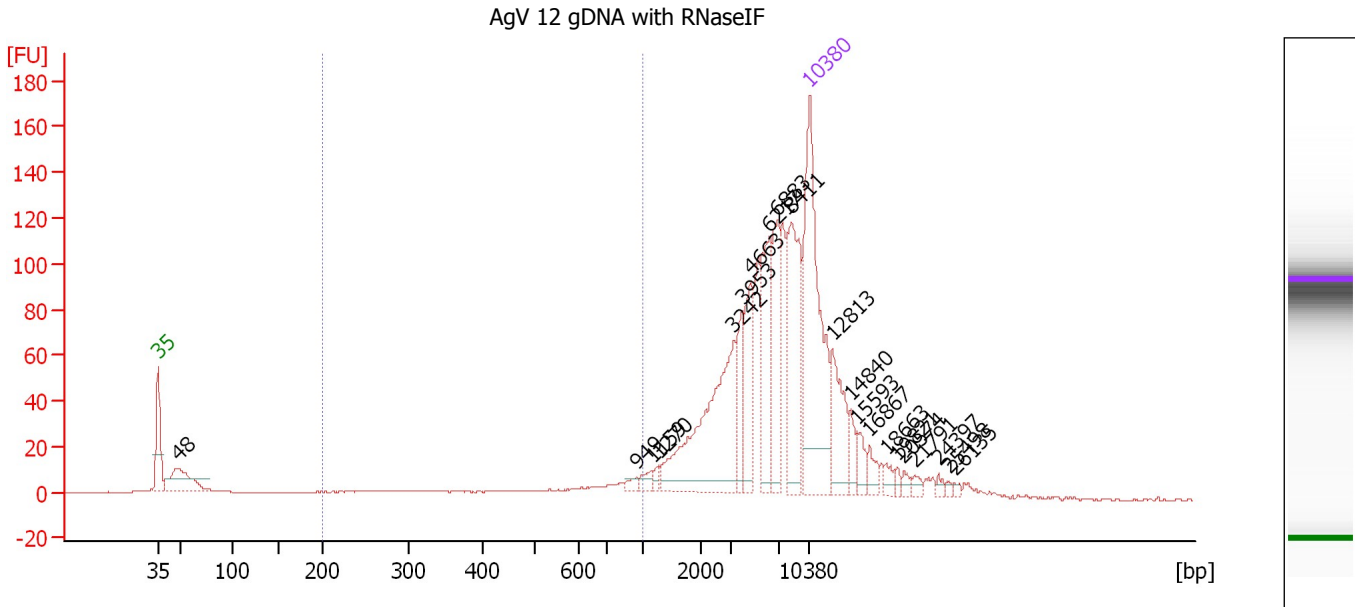
Region table for sample 9 : AgV 11 SS Soni with RNaseIF

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
363	2,172	768	173.70	183.1	403.8	89	42.7

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Electropherogram Summary Continued ...



Overall Results for sample 11 : AgV 12 gDNA with RNaseIF

Number of peaks found: 21 Corr. Area 1: 101.0
 Noise: 0.2

Peak table for sample 11 : AgV 12 gDNA with RNaseIF

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	48	30.09	953.0		45.06
3	949	2.61	4.2		94.38
4	1,159	3.46	4.5		96.04
5	1,270	2.36	2.8		96.73
6	3,242	71.34	33.3		104.81
7	3,953	14.58	5.6		105.73
8	4,663	25.97	8.4		106.64
9	6,217	30.48	7.4		108.65
10	6,883	32.79	7.2		109.51
11	8,411	47.07	8.5		111.05
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,813	0.00	0.0		115.41
14	14,840	0.00	0.0		117.41
15	15,593	0.00	0.0		118.16
16	16,867	0.00	0.0		119.42
17	18,663	0.00	0.0		121.19
18	19,821	0.00	0.0		122.34
19	20,574	0.00	0.0		123.08
20	21,791	0.00	0.0		124.28
21	24,397	0.00	0.0		126.86
22	25,498	0.00	0.0		127.95
23	26,135	0.00	0.0		128.58

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Electropherogram Summary Continued ...

... Region table for sample 11 : AgV 12 gDNA with RNaseIF

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co lor % of Total	Size distribution in CV [%]
200	1,000	571	39.09	101.0	137.9	 7	40.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-15\2018-05-15_003.xad

Created: 5/15/2018 4:47:42 PM
Modified: 5/15/2018 5:30:33 PM

Gel Image