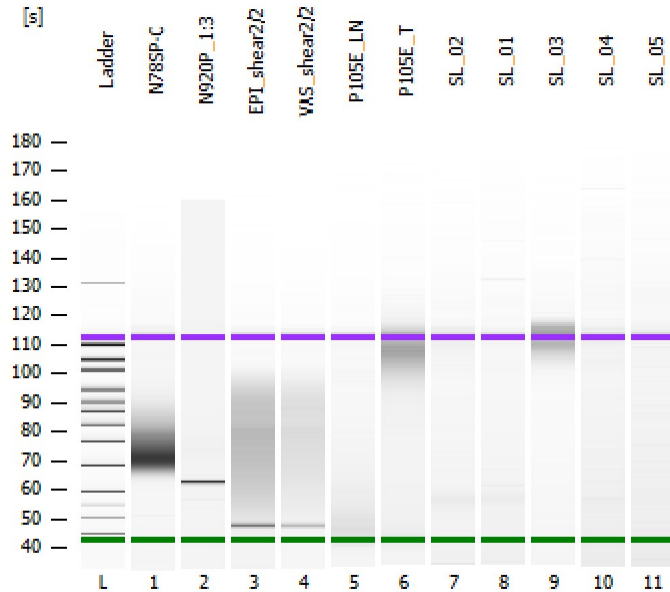


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
Modified: 7/6/2023 3:56:33 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

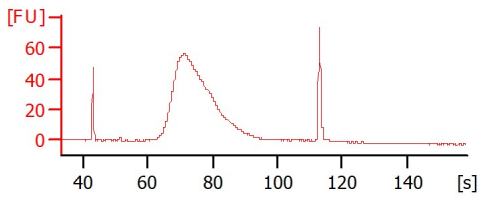
Assay Information:

Assay Origin Path: C:\Program Files (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

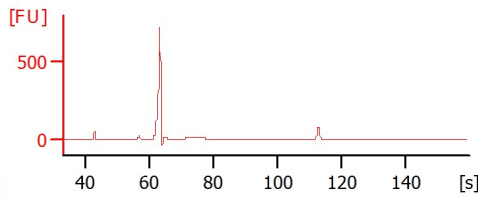
Chip Information:

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

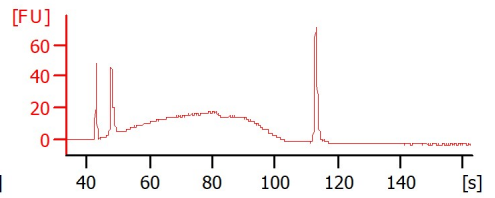
**N78SP-C**



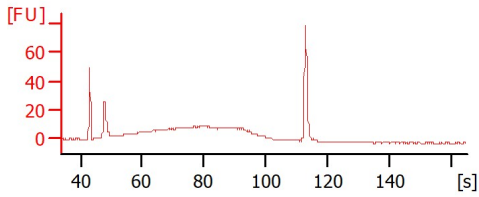
**N920P\_1:3**



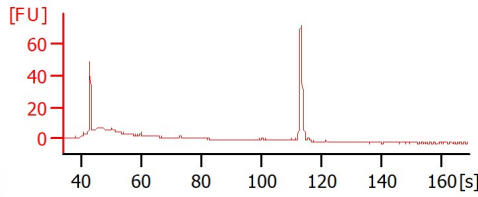
**EPI\_shear2/2**



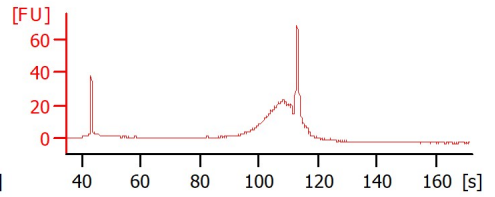
**VAS\_shear2/2**



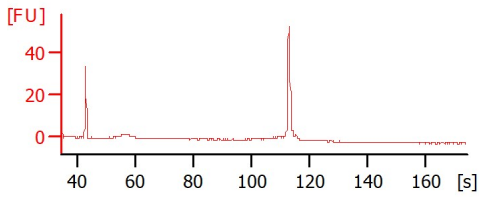
**P105E\_LN**



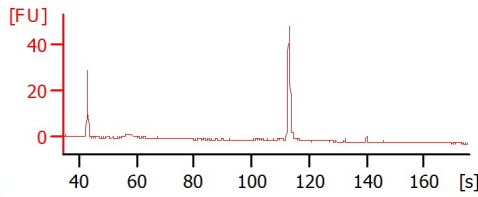
**P105E\_T**



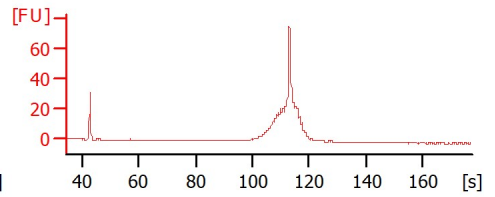
**SL\_02**



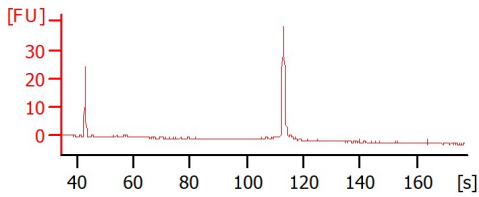
**SL\_01**



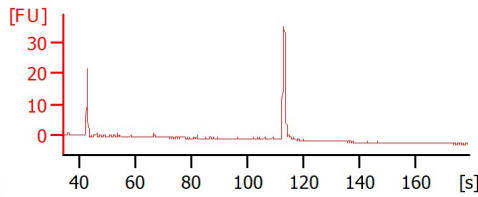
**SL\_03**



**SL\_04**



**SL\_05**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
N78SP-C		<input type="checkbox"/>		✓		
N920P_1:3		<input type="checkbox"/>		✓		
EPI_shear2/2		<input type="checkbox"/>		✓		
VAS_shear2/2		<input type="checkbox"/>		✓		
P105E_LN		<input type="checkbox"/>		✓		
P105E_T		<input type="checkbox"/>		✓		
SL_02		<input type="checkbox"/>		✓		
SL_01		<input type="checkbox"/>		✓		
SL_03		<input type="checkbox"/>		✓		
SL_04		<input type="checkbox"/>		✓		
SL_05		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 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

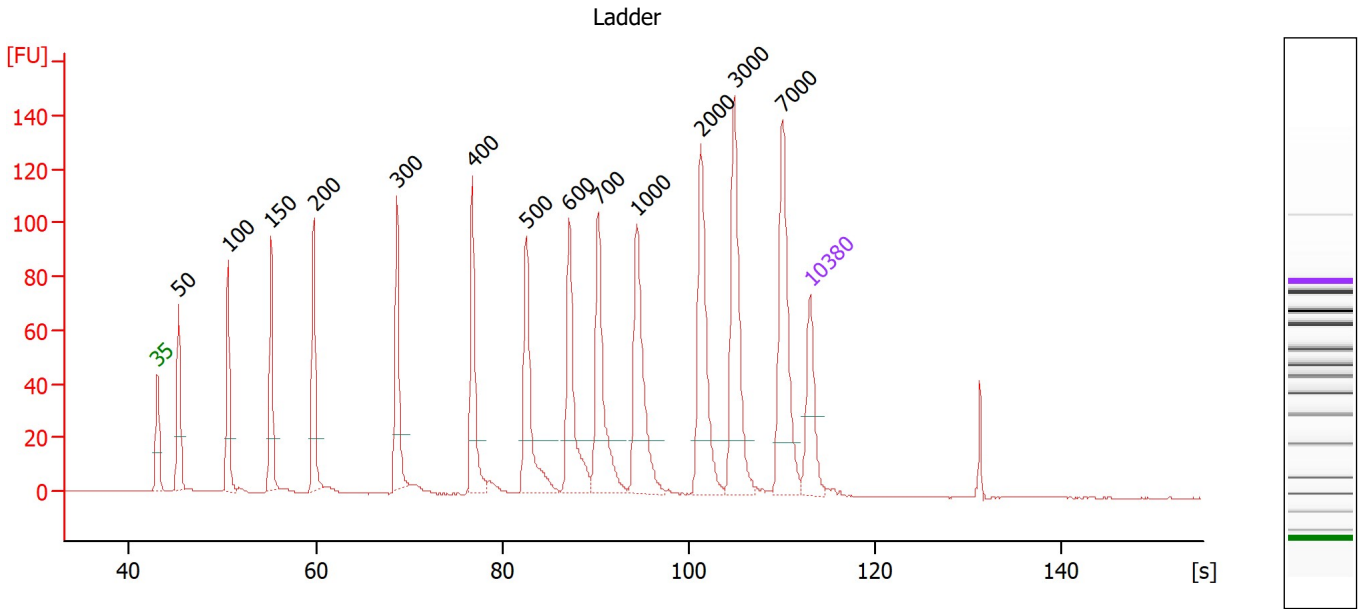
**Ladder**

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:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

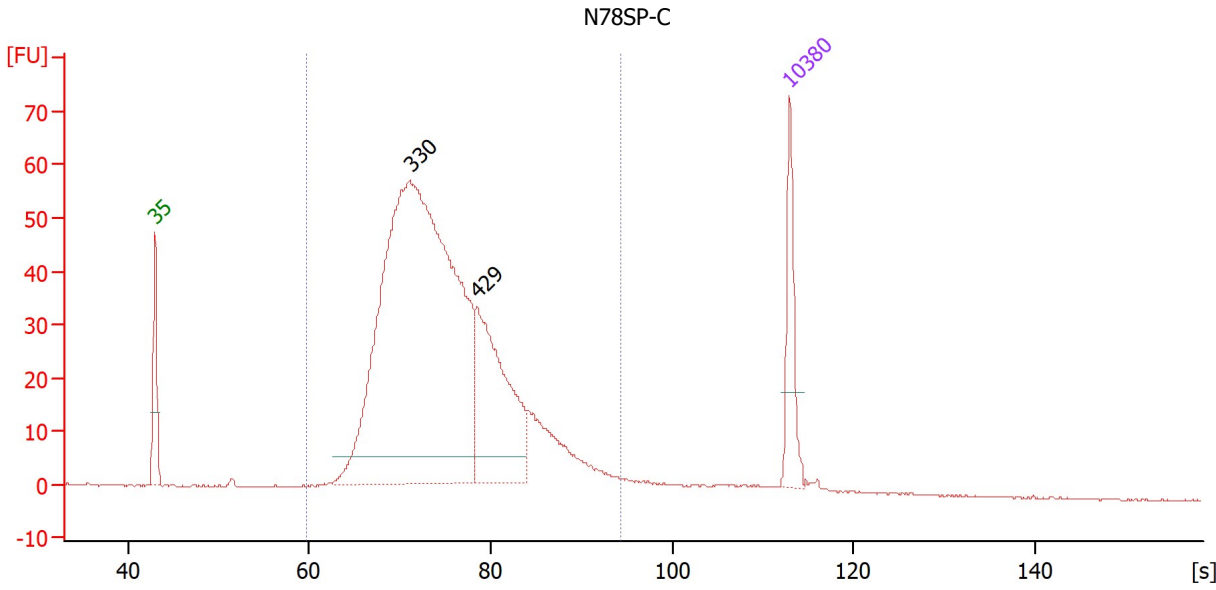
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : N78SP-C**

Number of peaks found: 2                      Corr. Area 1: 983.7  
 Noise: 0.2

**Peak table for sample 1 : N78SP-C**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	330	1,450.52	6,669.4	
3	429	284.97	1,005.9	
4	10,380	75.00	10.9	Upper Marker

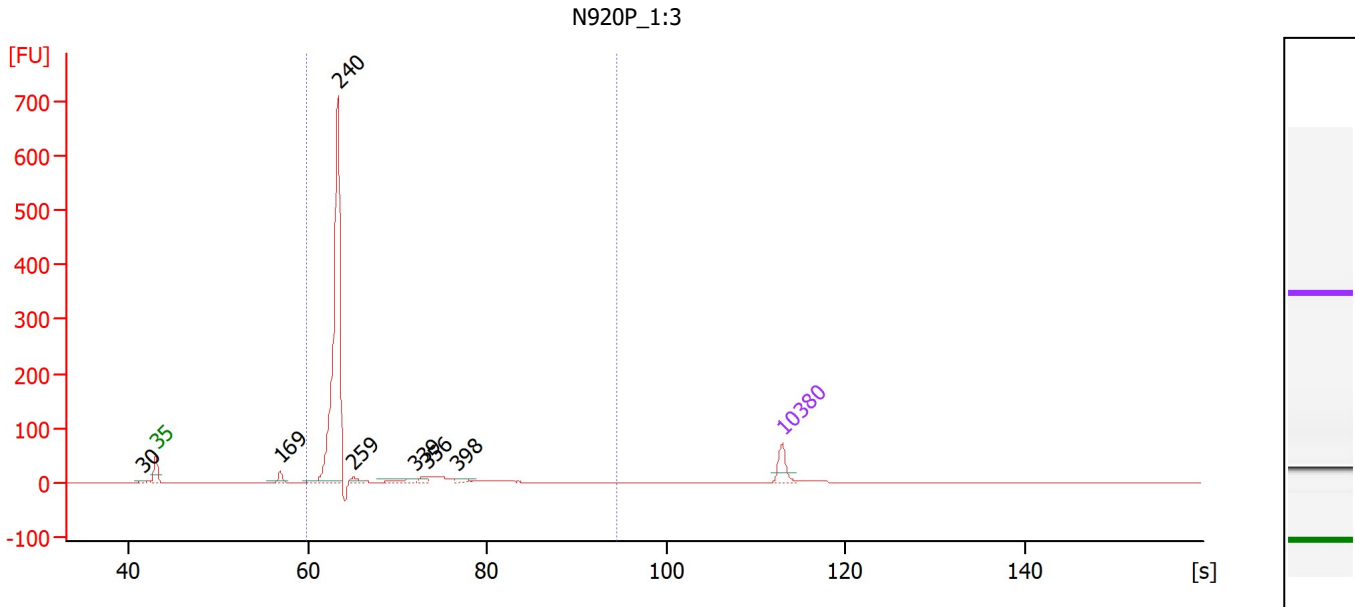
**Region table for sample 1 : N78SP-C**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	983.7	95	394	27.6	1,916.32	7,969.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : N920P\_1:3**

Number of peaks found: 7                      Corr. Area 1: 1,034.1  
 Noise: 0.2

**Peak table for sample 2 : N920P\_1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	169	49.91	448.7	
4	240	1,809.51	11,435.1	
5	259	29.51	172.5	
6	339	35.44	158.3	
7	356	22.06	94.0	
8	398	25.03	95.2	
9	10,380	75.00	10.9	Upper Marker

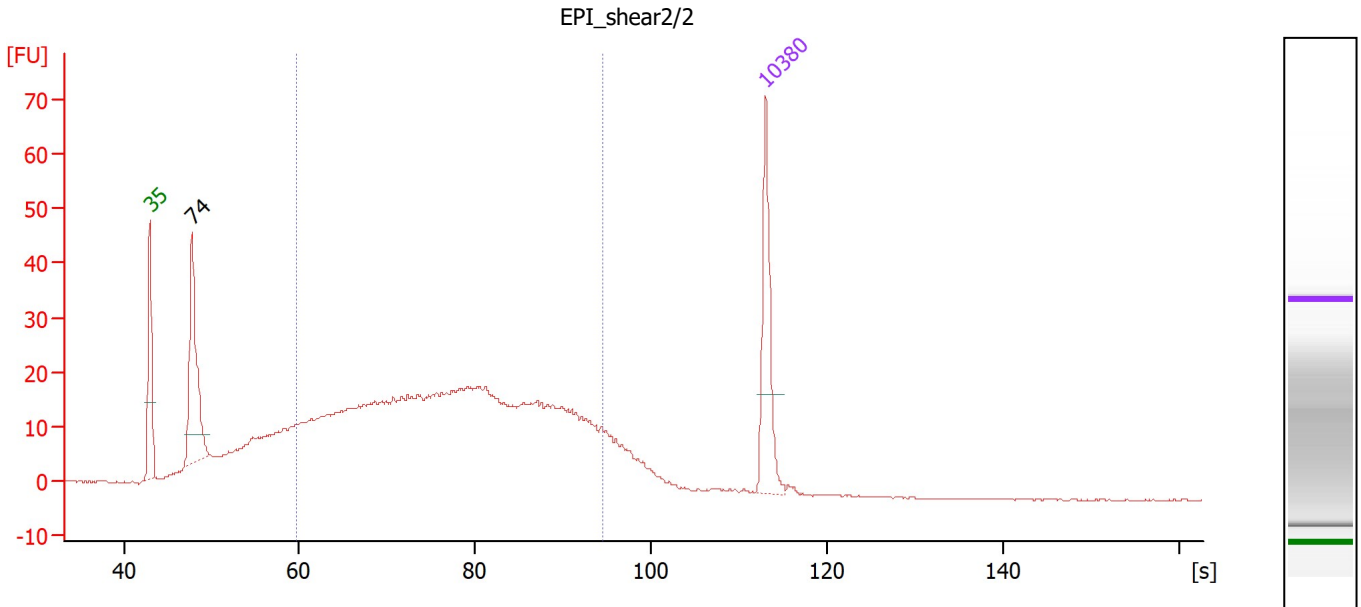
**Region table for sample 2 : N920P\_1:3**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	1,034.1	93	267	30.9	2,125.68	12,909.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : EPI\_shear2/2**

Number of peaks found: 1                      Corr. Area 1: 634.6  
 Noise: 0.1

**Peak table for sample 3 : EPI\_shear2/2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	74	187.40	3,848.5	
3	10,380	75.00	10.9	Upper Marker

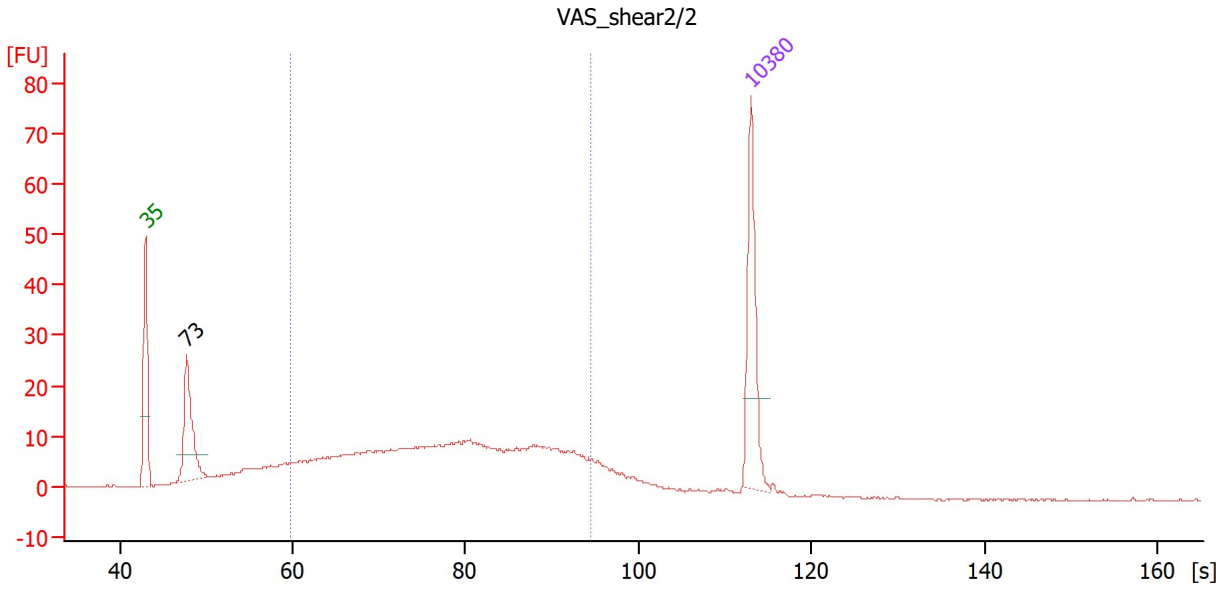
**Region table for sample 3 : EPI\_shear2/2**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	634.6	70	451	40.4	1,155.54	4,813.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : VAS\_shear2/2**

Number of peaks found: 1                      Corr. Area 1: 330.5  
 Noise: 0.1

**Peak table for sample 4 : VAS\_shear2/2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	73	108.00	2,230.2	
3	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : VAS\_shear2/2**

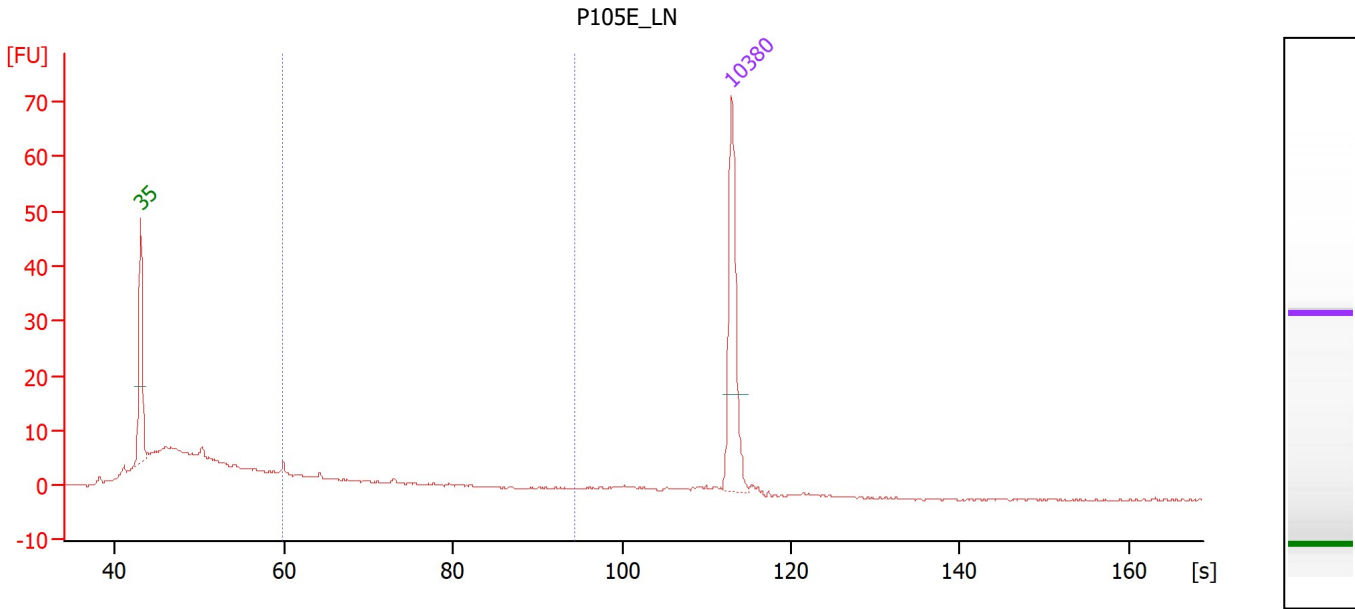
From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	330.5	68	464	40.1	522.79	2,122.3	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : P105E\_LN**

Number of peaks found: 0                      Corr. Area 1: 51.2  
 Noise: 0.2

**Peak table for sample 5 : P105E\_LN**

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

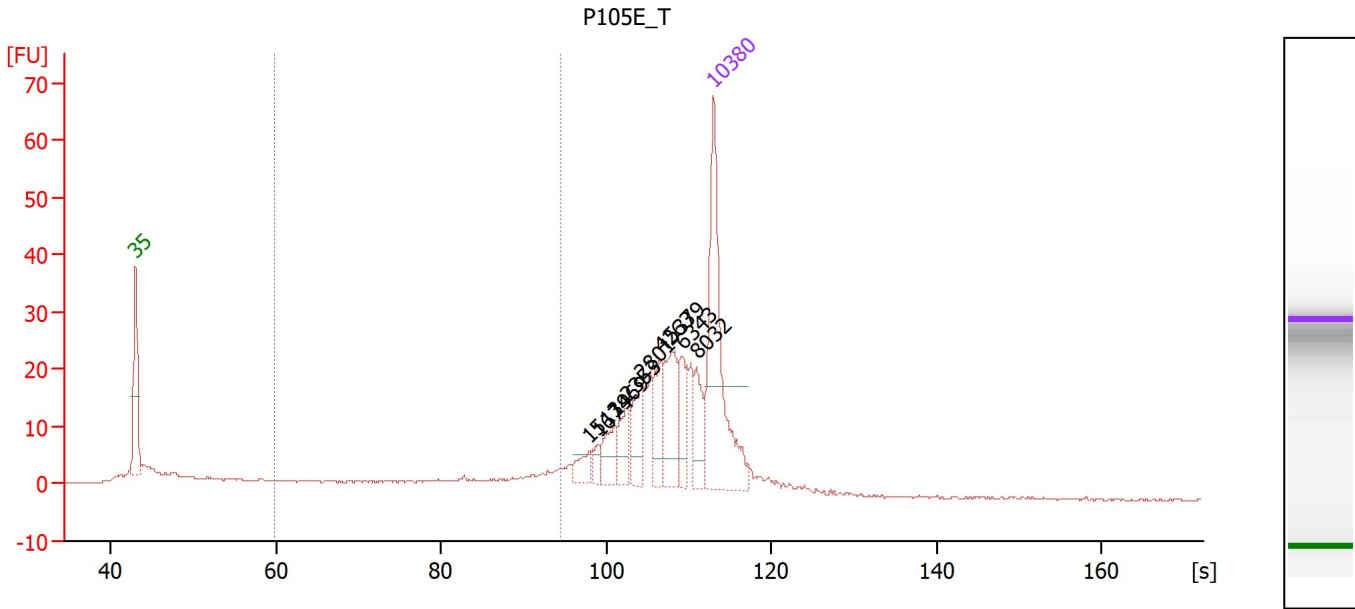
**Region table for sample 5 : P105E\_LN**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	51.2	23	363	45.4	95.92	488.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : P105E T**

Number of peaks found: 9                      Corr. Area 1: 61.1  
 Noise: 0.2

**Peak table for sample 6 : P105E T**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,513	8.38	8.4	
3	1,674	4.63	4.2	
4	1,969	13.39	10.3	
5	2,353	12.07	7.8	
6	2,801	18.26	9.9	
7	4,263	17.46	6.2	
8	5,379	28.53	8.0	
9	6,343	16.44	3.9	
10	8,032	16.76	3.2	
11	10,380	75.00	10.9	Upper Marker

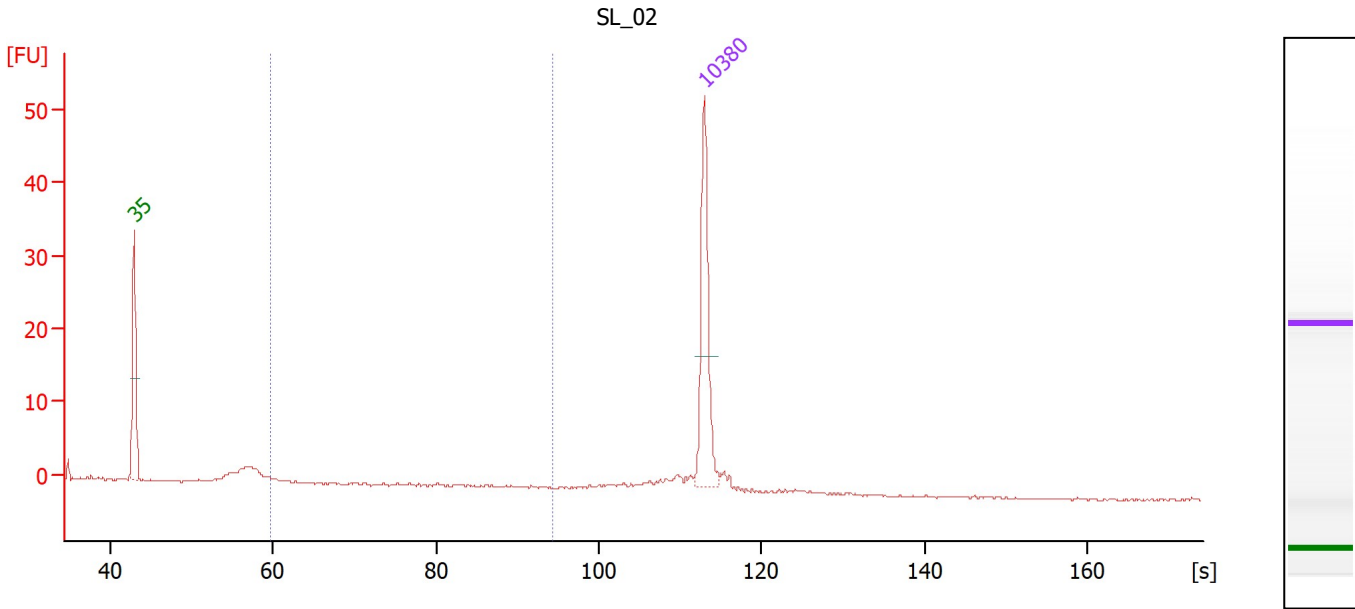
**Region table for sample 6 : P105E T**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	61.1	17	528	42.0	67.85	256.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : SL\_02**

Number of peaks found: 0                      Corr. Area 1: 2.5  
 Noise: 0.1

**Peak table for sample 7 : SL\_02**

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

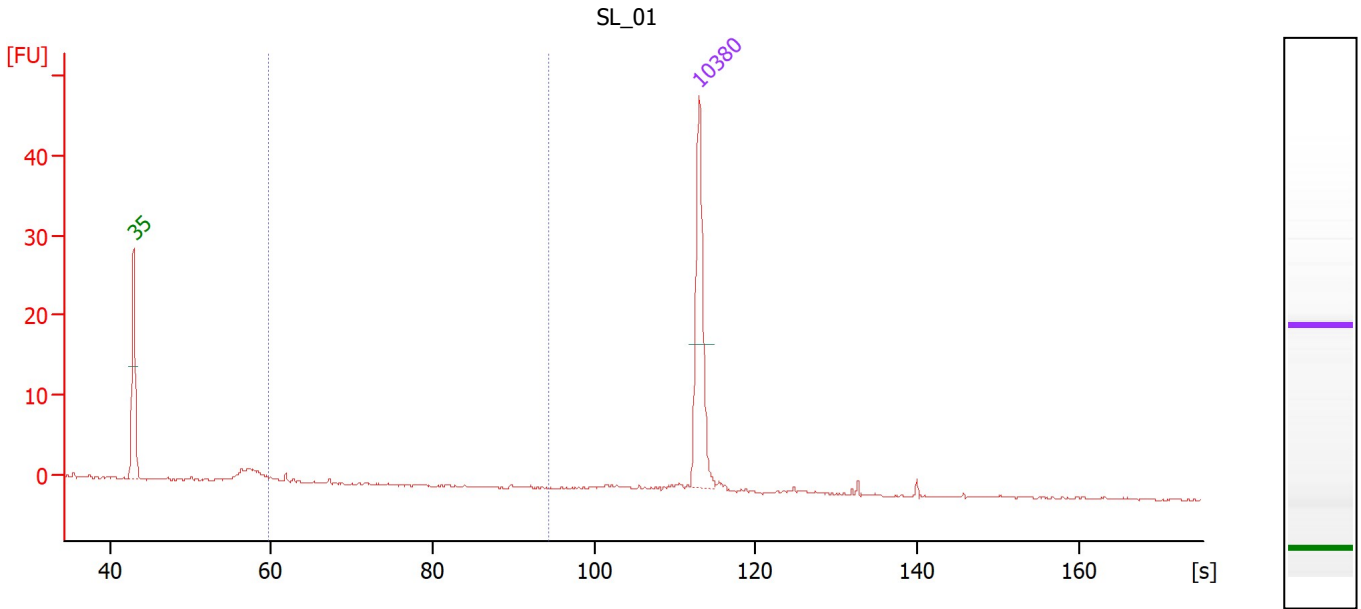
**Region table for sample 7 : SL\_02**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	2.5	8	380	51.6	6.41	35.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : SL\_01**

Number of peaks found: 0                      Corr. Area 1: 0.1  
 Noise: 0.1

**Peak table for sample 8 : SL\_01**

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

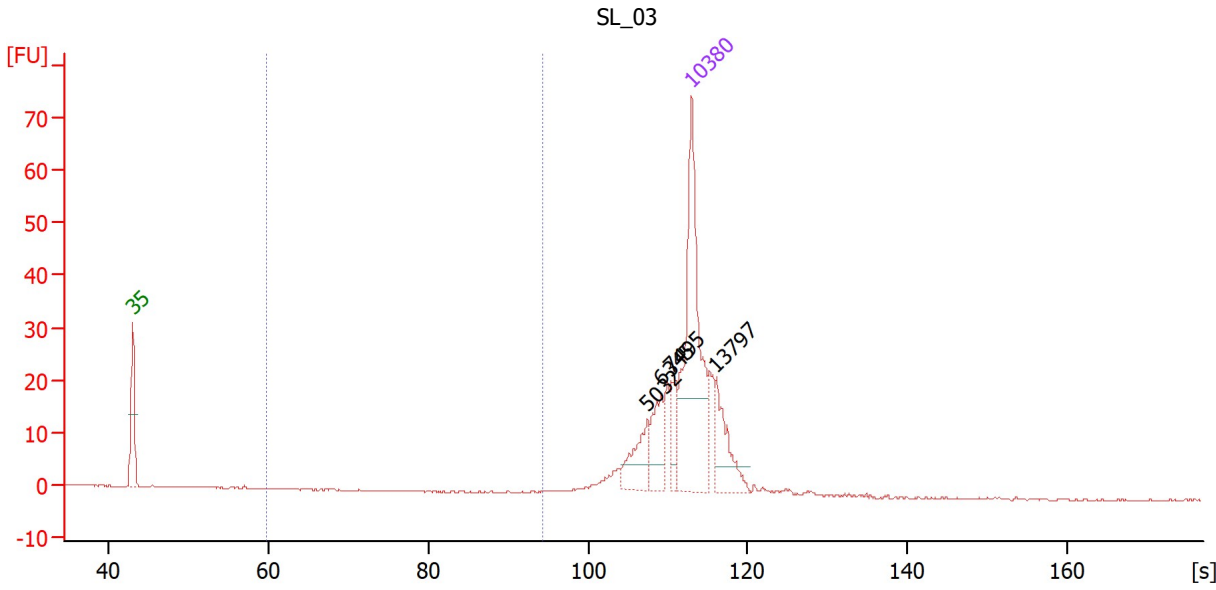
**Region table for sample 8 : SL\_01**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	0.1	2	223	0.6	0.42	2.8	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : SL\_03**

Number of peaks found: 4                      Corr. Area 1: 0.0  
 Noise: 0.1

**Peak table for sample 9 : SL\_03**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	5,032	17.55	5.3	
3	6,345	17.12	4.1	
4	7,495	11.27	2.3	
5	10,380	75.00	10.9	Upper Marker
6	13,797	0.00	0.0	

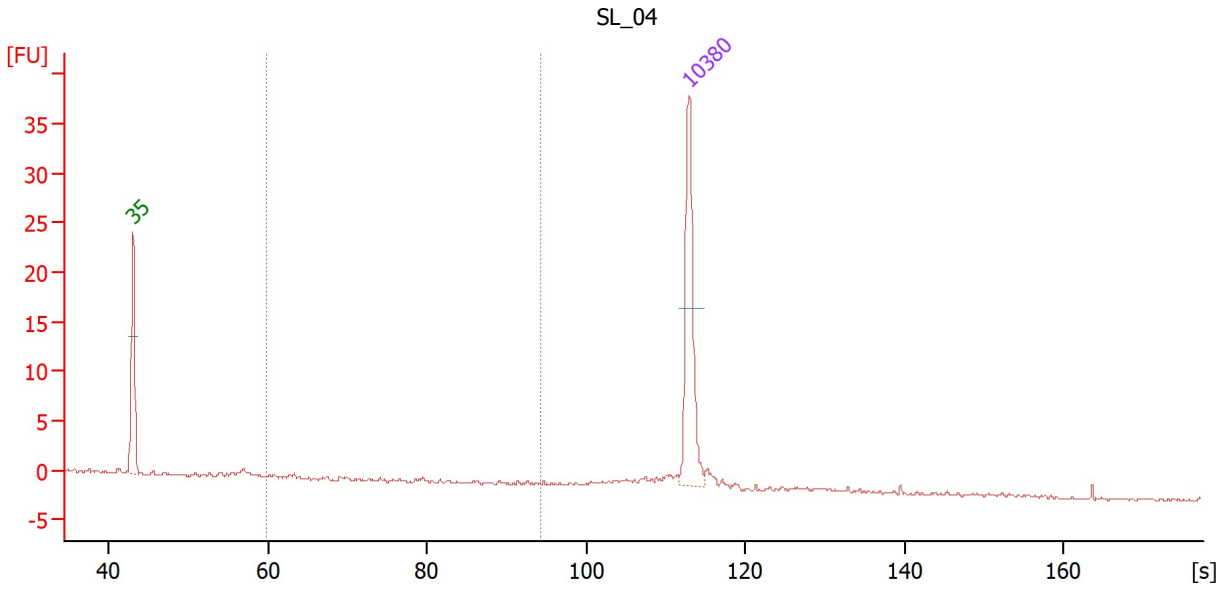
**Region table for sample 9 : SL\_03**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	0.0	0	993	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : SL\_04**

Number of peaks found: 0                      Corr. Area 1: 0.1  
 Noise: 0.1

**Peak table for sample 10 : SL\_04**

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

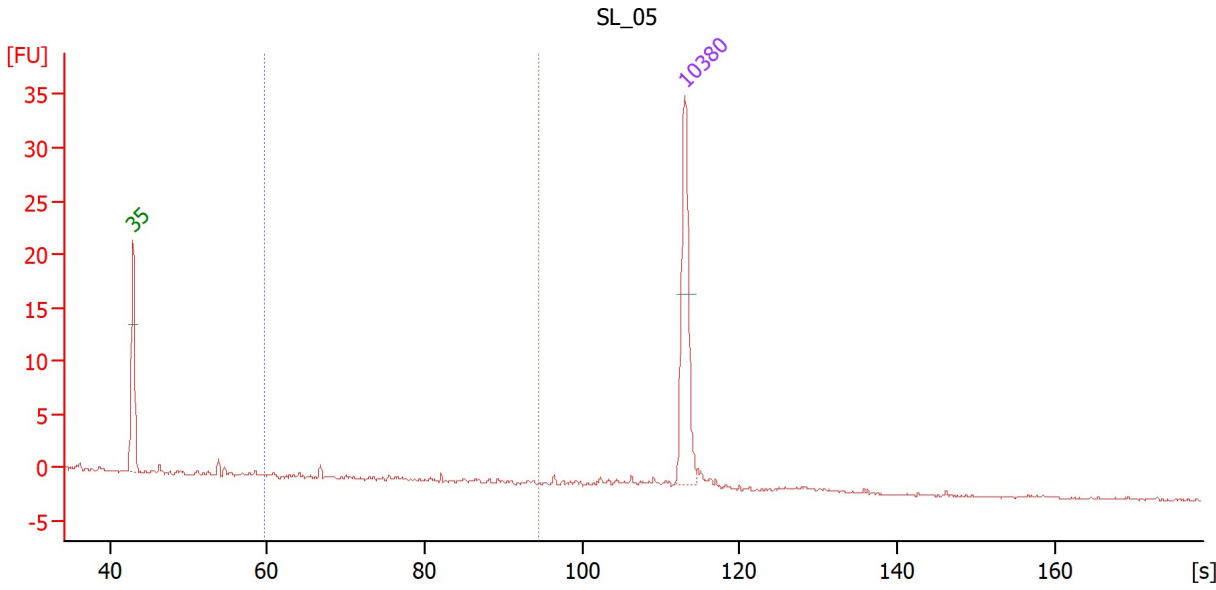
**Region table for sample 10 : SL\_04**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	0.1	1	401	53.3	0.35	1.8	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : SL\_05**

Number of peaks found: 0                      Corr. Area 1: 0.9  
 Noise: 0.1

**Peak table for sample 11 : SL\_05**

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

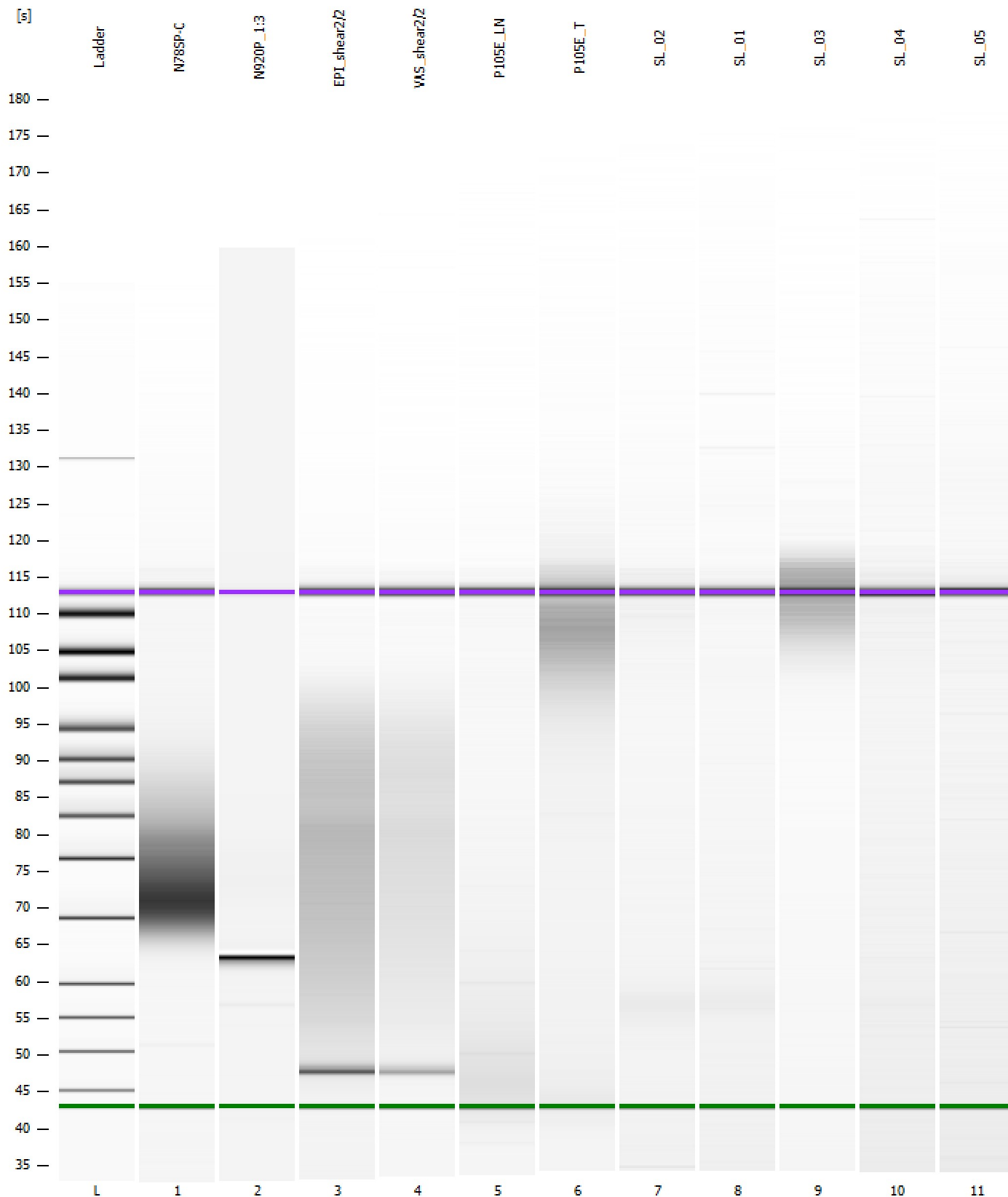
**Region table for sample 11 : SL\_05**

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59.75	94.41	0.9	13	428	42.6	3.26	14.4	■

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
Modified: 7/6/2023 3:56:33 PM

Gel Image



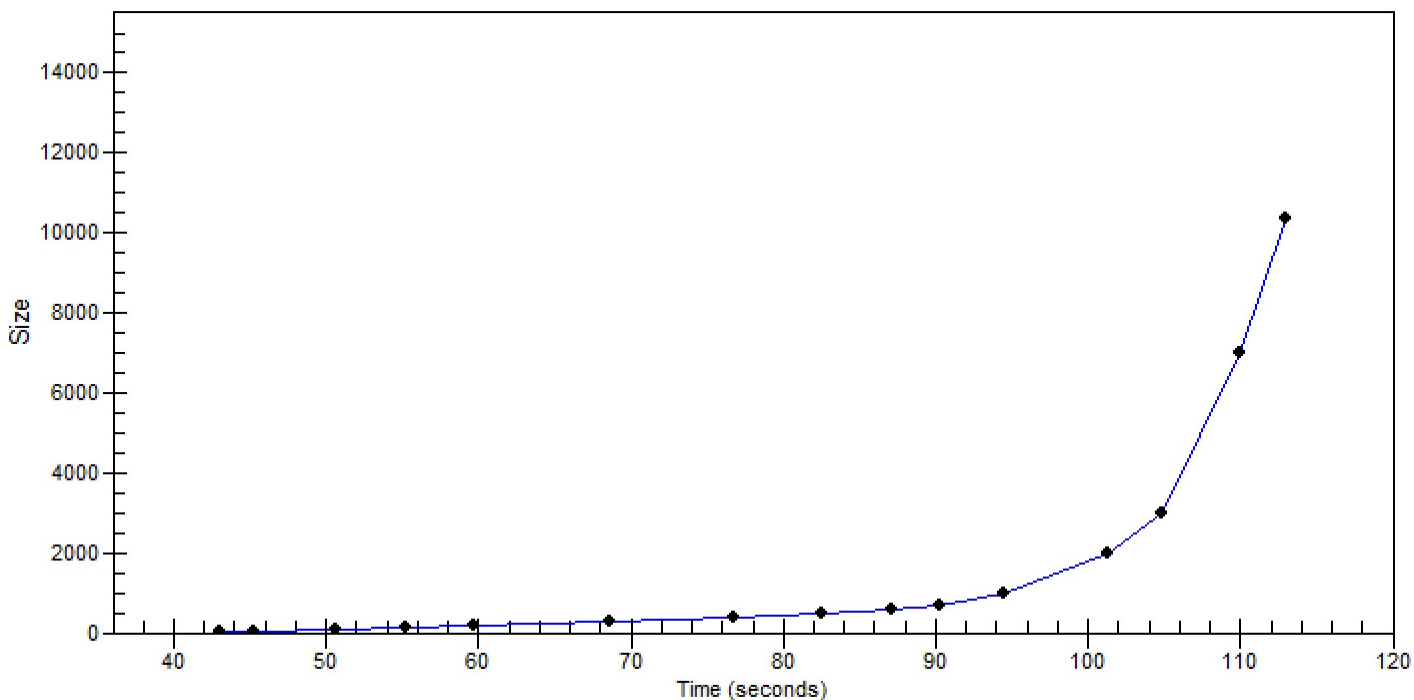


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad

Created: 7/6/2023 2:55:28 PM  
Modified: 7/6/2023 3:56:33 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2023-07-06\_001.xad  
 Created: 7/6/2023 2:55:28 PM  
 Modified: 7/6/2023 3:56:33 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		7/6/2023 3:36:47 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-07-06\Bioanalyzer1_High Sensitivity DNA Assay_2023-07-06_001.xad)		Instrument	Run		7/6/2023 2:55:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/6/2023 2:55:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/6/2023 2:55:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/6/2023 2:55:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/6/2023 2:55:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/6/2023 2:55:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/6/2023 2:55:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB