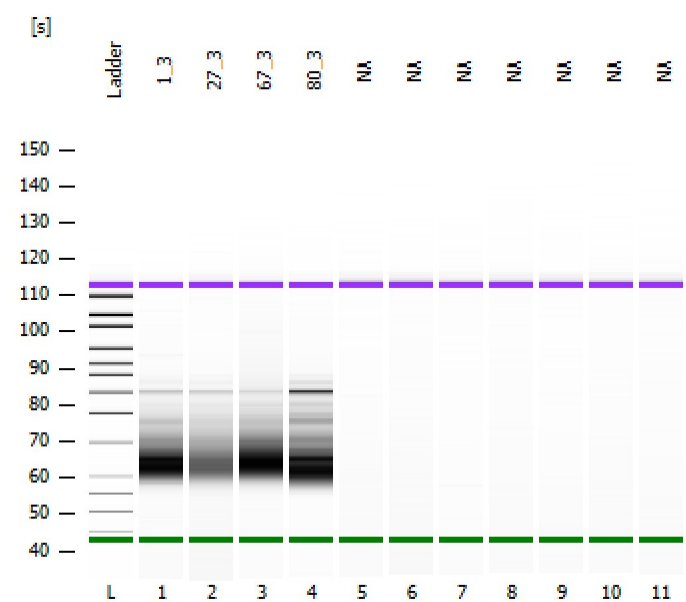


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
Modified: 12/10/2019 1:42:05 PM

Electrophoresis File Run Summary



Instrument Information:

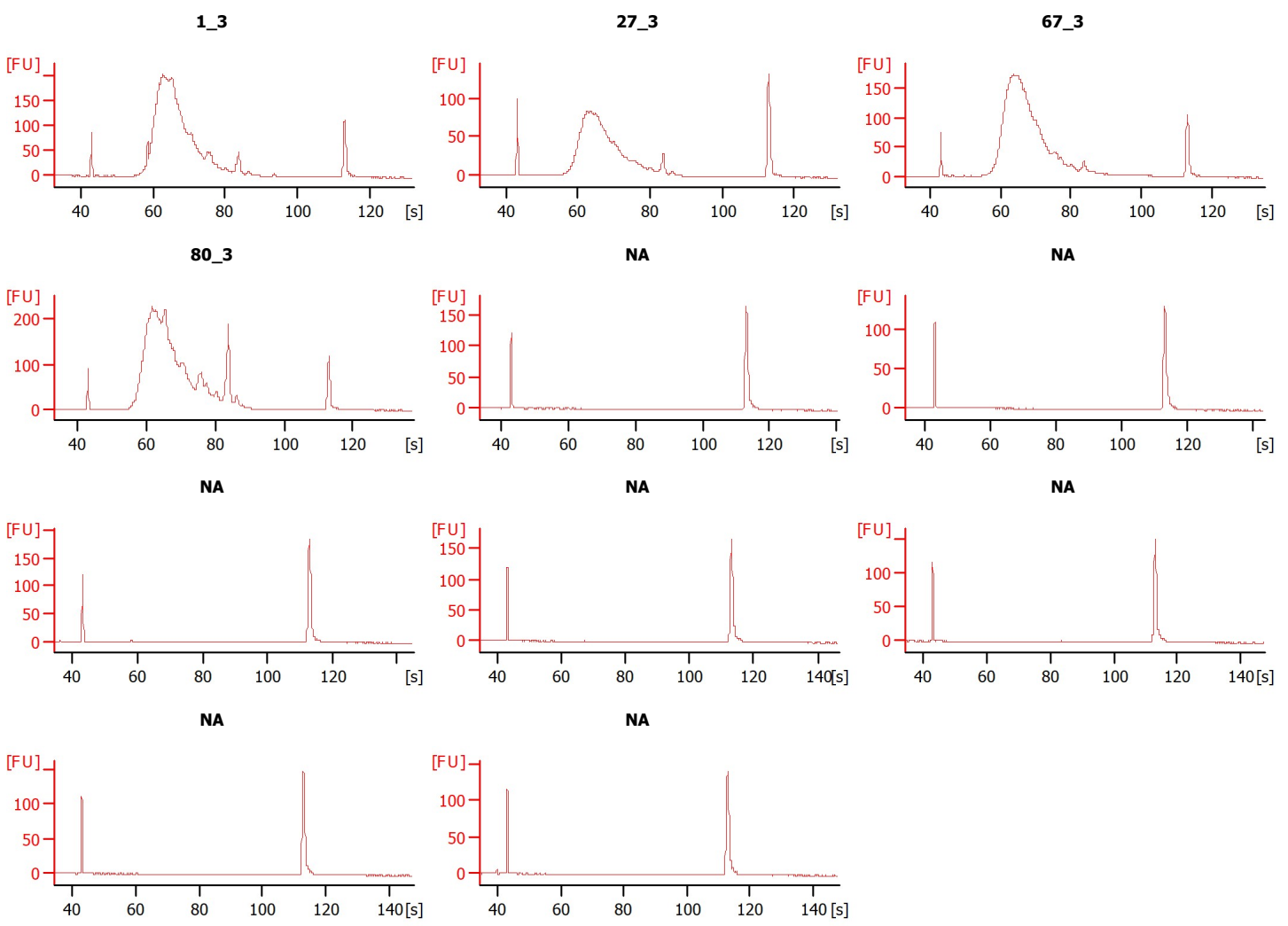
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1_3		<input type="checkbox"/>	✓			
27_3		<input type="checkbox"/>	✓			
67_3		<input type="checkbox"/>	✓			
80_3		<input type="checkbox"/>	✓			
NA		<input type="checkbox"/>	✓			
NA		<input type="checkbox"/>	✓			
NA		<input type="checkbox"/>	✓			
NA		<input type="checkbox"/>	✓			
NA		<input type="checkbox"/>	✓			
NA		<input type="checkbox"/>	✓			
NA		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 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

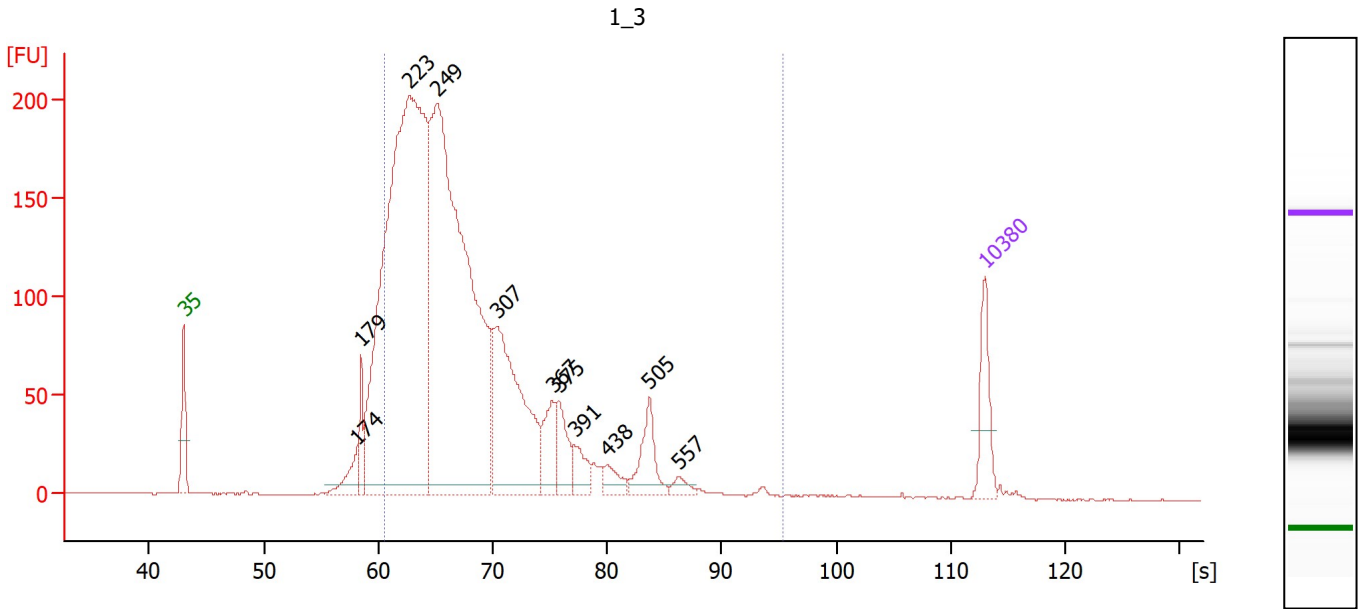
Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary



Overall Results for sample 1 : 1_3

Number of peaks found: 11 Corr. Area 1: 3,121.0
 Noise: 0.3

Peak table for sample 1 : 1_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	174	64.66	562.7	
3	179	73.28	621.9	
4	223	1,957.75	13,308.1	
5	249	1,643.70	10,014.5	
6	307	467.09	2,306.6	
7	367	90.86	375.0	
8	375	88.52	357.8	
9	391	51.01	197.5	
10	438	33.80	116.9	
11	505	89.83	269.6	
12	557	17.78	48.4	
13	10,380	75.00	10.9	Upper Marker

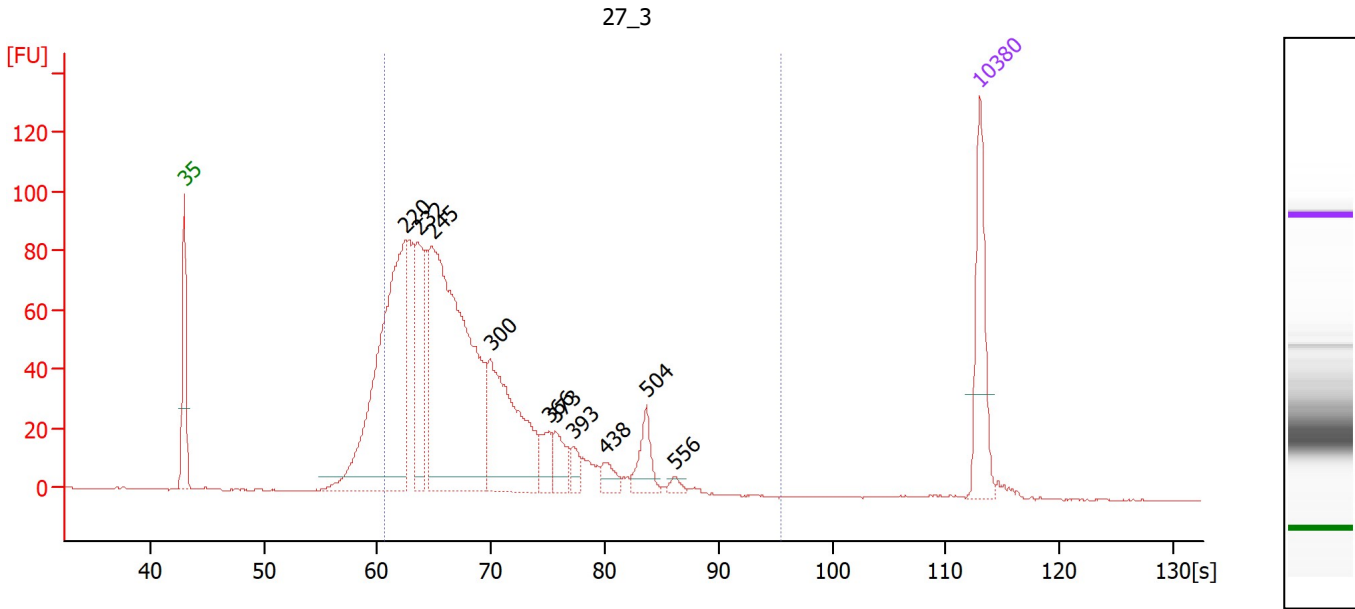
Region table for sample 1 : 1_3

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	3,121.0	90	284	29.5	4,146.49	23,821.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 27_3

Number of peaks found: 10 Corr. Area 1: 1,414.7
 Noise: 0.2

Peak table for sample 2 : 27_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	220	456.60	3,148.3	
3	232	130.02	849.2	
4	245	578.19	3,572.8	
5	300	219.09	1,105.7	
6	366	28.74	118.9	
7	373	36.57	148.6	
8	393	15.22	58.6	
9	438	17.23	59.5	
10	504	38.56	116.0	
11	556	7.08	19.3	
12	10,380	75.00	10.9	Upper Marker

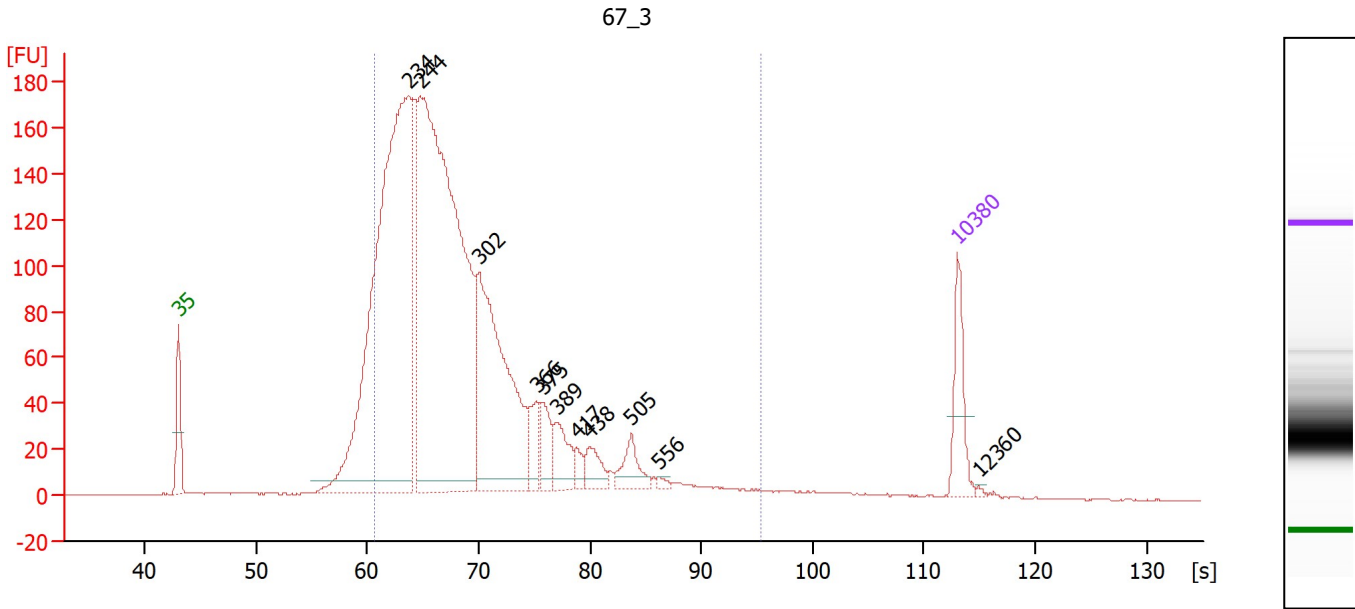
Region table for sample 2 : 27_3

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	1,414.7	89	288	27.6	1,527.54	8,648.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 67_3

Number of peaks found: 11 Corr. Area 1: 2,945.5
 Noise: 0.2

Peak table for sample 3 : 67_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	234	1,493.58	9,688.6	
3	244	1,619.89	10,038.6	
4	302	572.96	2,874.7	
5	366	63.48	262.5	
6	375	60.22	243.4	
7	389	71.61	279.0	
8	417	21.87	79.5	
9	438	45.35	156.9	
10	505	53.57	160.9	
11	556	7.08	19.3	
12	10,380	75.00	10.9	Upper Marker
13	12,360	0.00	0.0	

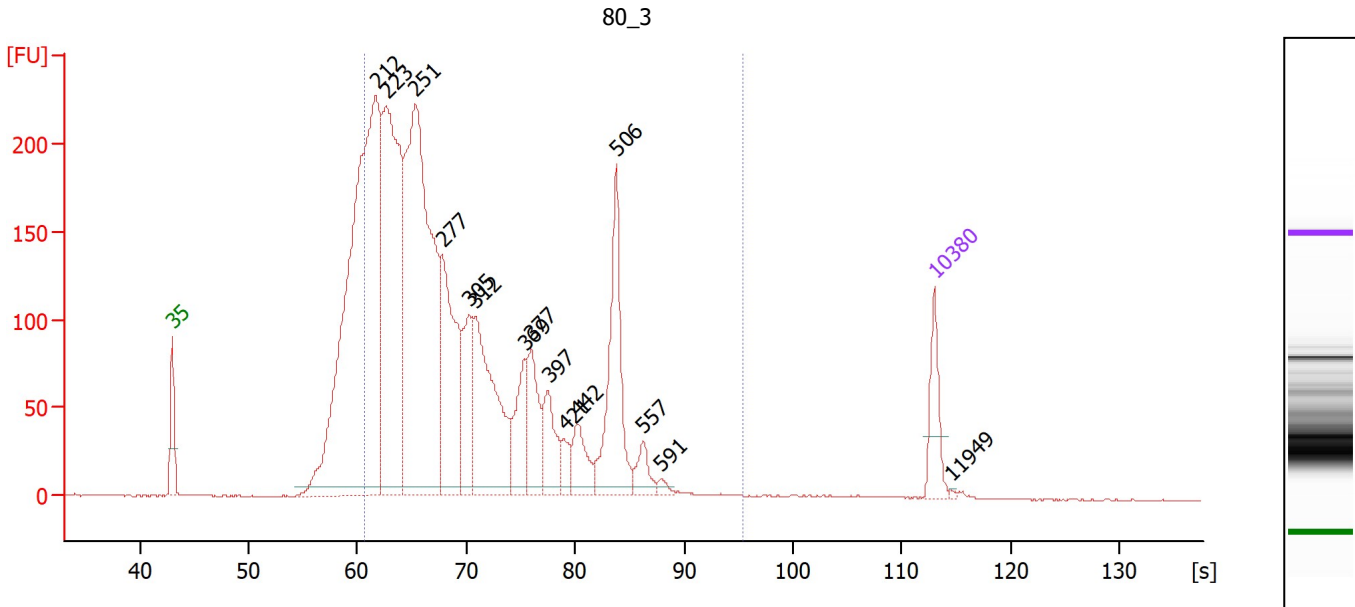
Region table for sample 3 : 67_3

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	2,945.5	90	293	32.5	3,980.15	22,357.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 80_3

Number of peaks found: 15 Corr. Area 1: 3,889.1
 Noise: 0.3

Peak table for sample 4 : 80_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	212	1,772.26	12,665.1	
3	223	947.12	6,445.1	
4	251	1,273.41	7,675.7	
5	277	419.07	2,288.8	
6	305	187.29	931.3	
7	312	424.85	2,066.3	
8	369	136.99	561.9	
9	377	144.71	581.8	
10	397	115.08	439.5	
11	421	38.93	140.0	
12	442	87.75	300.7	
13	506	303.63	908.7	
14	557	47.69	129.7	
15	591	12.23	31.4	
16	10,380	75.00	10.9	Upper Marker
17	11,949	0.00	0.0	

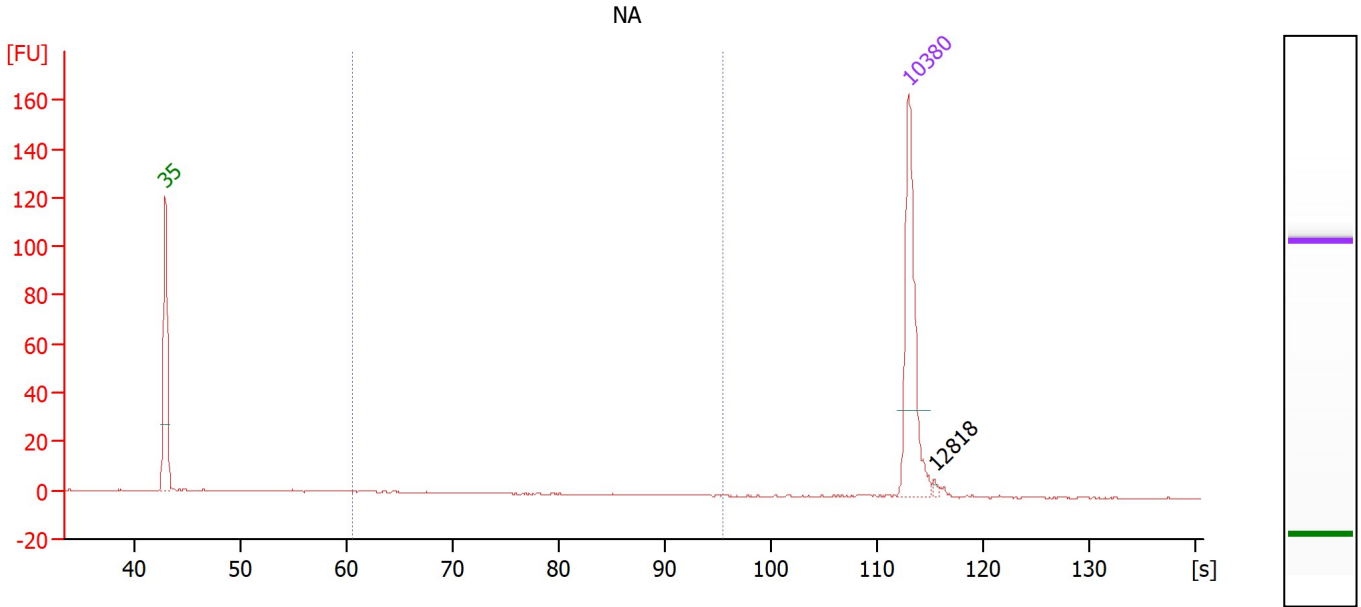
Region table for sample 4 : 80_3

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	3,889.1	84	306	33.2	4,978.70	27,557.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : NA

Number of peaks found: 1 Corr. Area 1: 6.4
 Noise: 0.2

Peak table for sample 5 : NA

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
3	12,818	0.00	0.0	

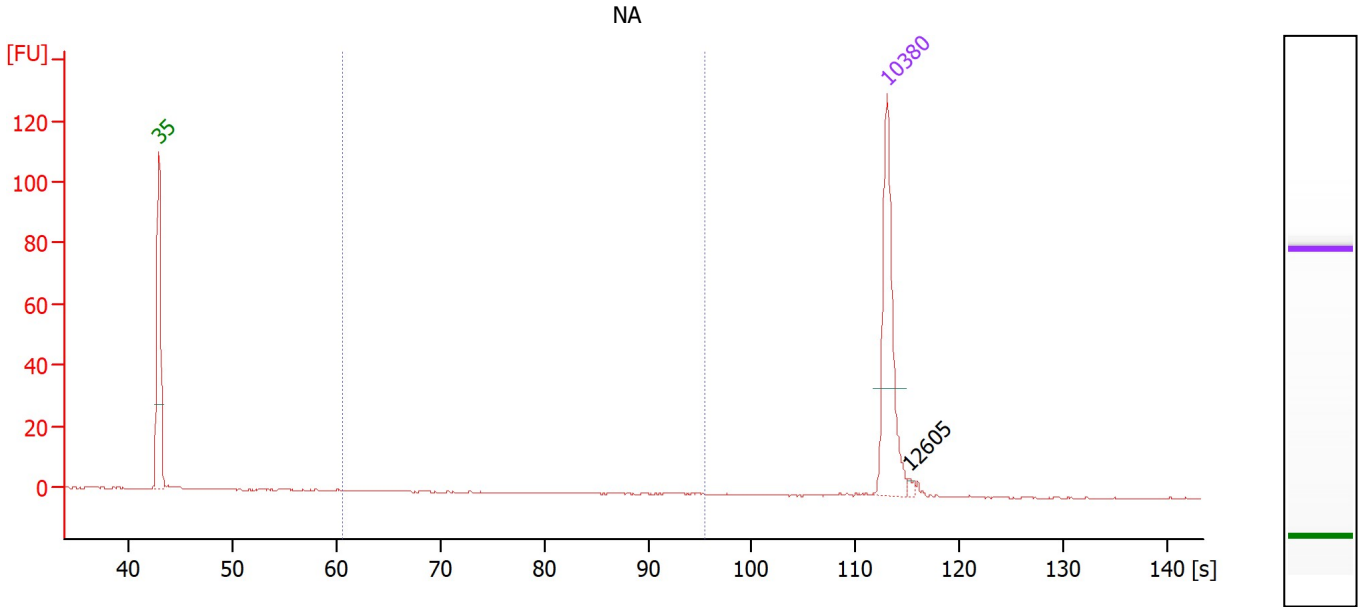
Region table for sample 5 : NA

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	6.4	19	284	33.7	5.08	29.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NA

Number of peaks found: 1 Corr. Area 1: 0.6
 Noise: 0.2

Peak table for sample 6 : NA

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
3	12,605	0.00	0.0	

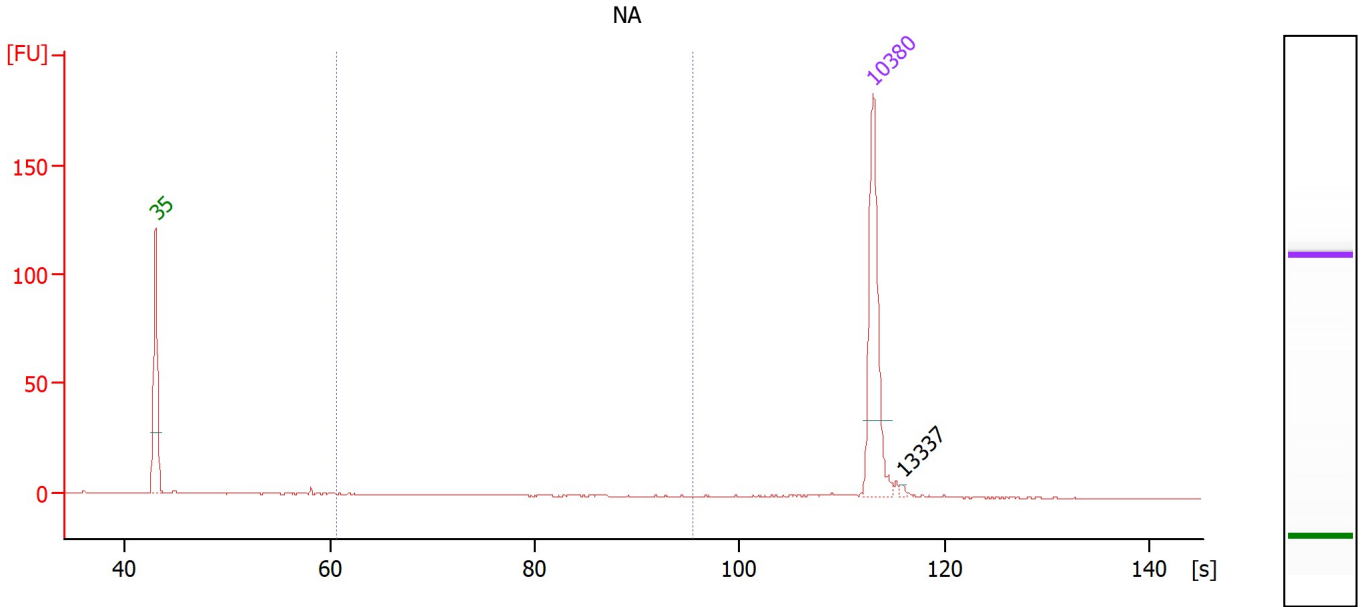
Region table for sample 6 : NA

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	0.6	4	648	43.6	0.50	1.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : NA

Number of peaks found: 1 Corr. Area 1: 0.1
 Noise: 0.2

Peak table for sample 7 : NA

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
3	13,337	0.00	0.0	

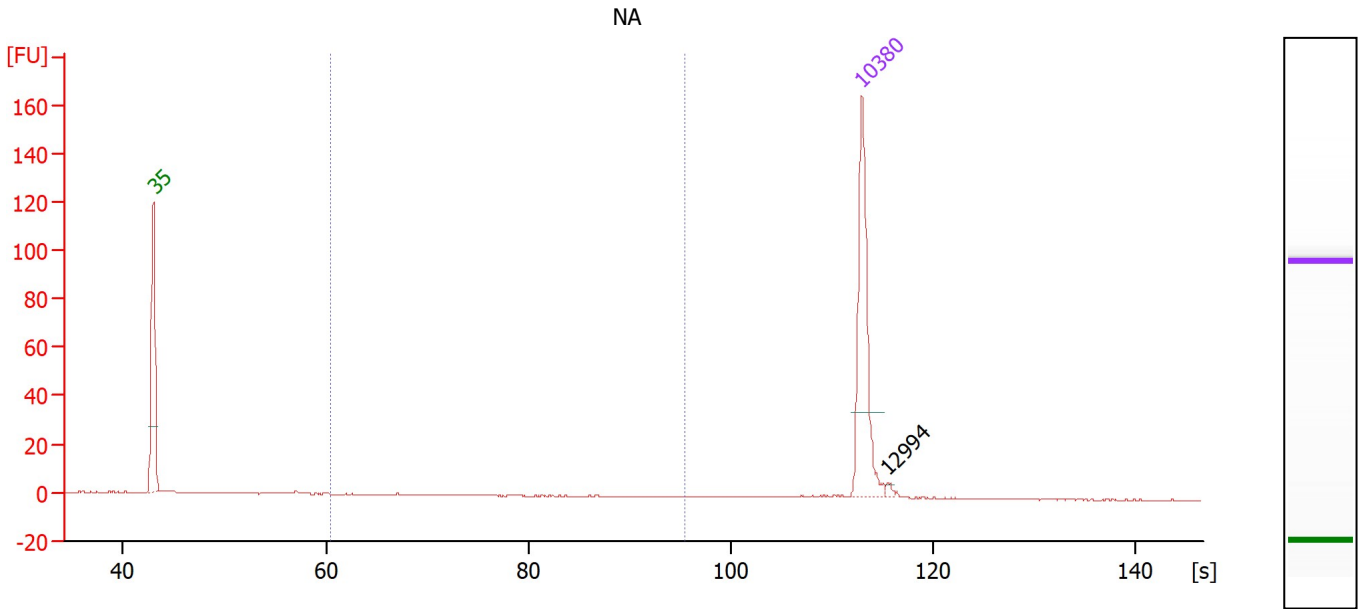
Region table for sample 7 : NA

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	0.1	1	362	69.5	0.08	0.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : NA

Number of peaks found: 1 Corr. Area 1: 1.8
 Noise: 0.2

Peak table for sample 8 : NA

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
3	12,994	0.00	0.0	

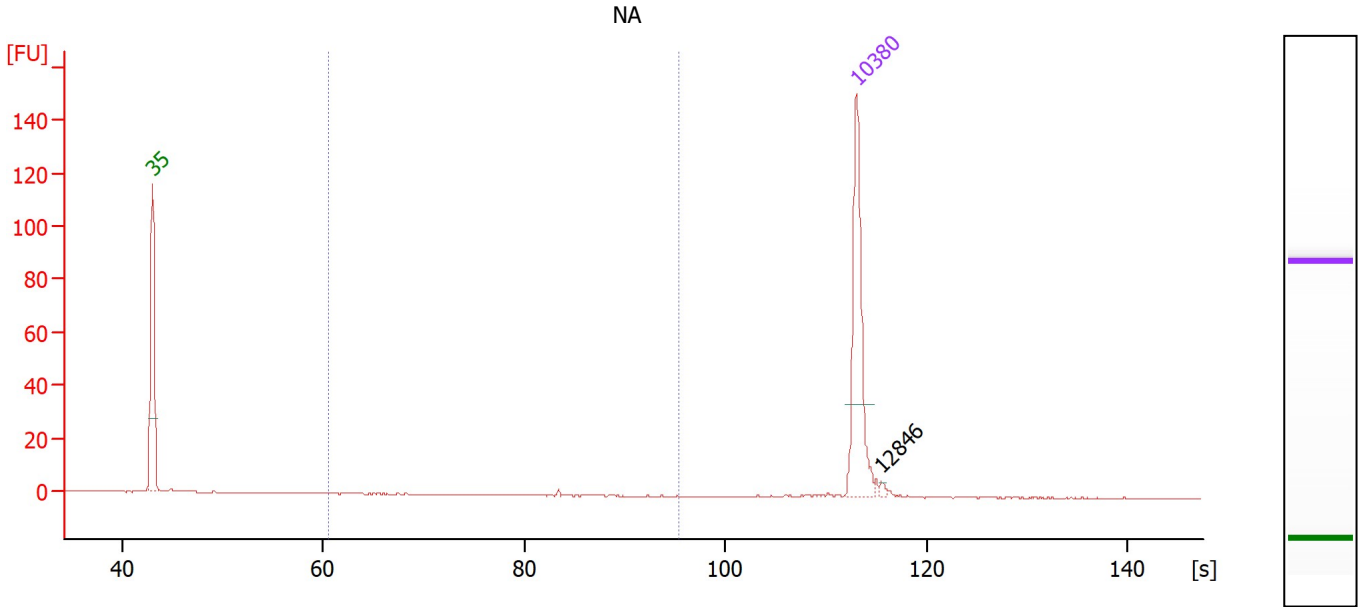
Region table for sample 8 : NA

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	1.8	8	430	51.1	1.36	6.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : NA

Number of peaks found: 1 Corr. Area 1: 0.8
 Noise: 0.2

Peak table for sample 9 : NA

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
3	12,846	0.00	0.0	

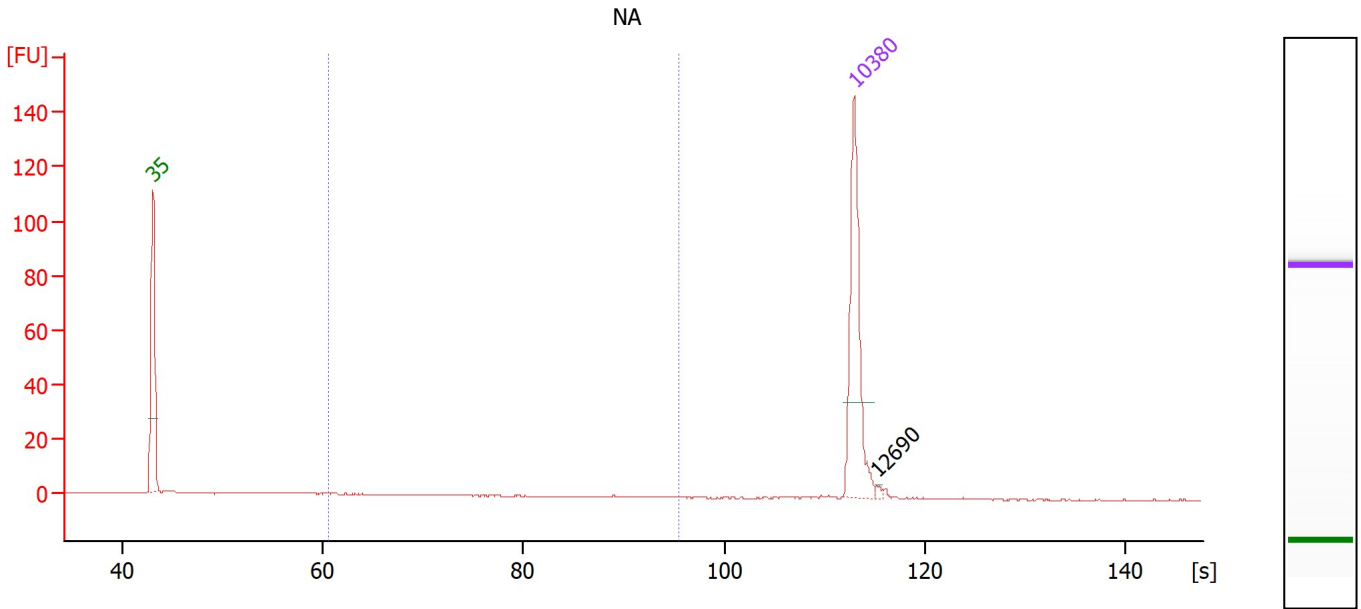
Region table for sample 9 : NA

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	0.8	4	445	23.7	0.67	2.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : NA

Number of peaks found: 1 Corr. Area 1: 2.4
 Noise: 0.1

Peak table for sample 10 : NA

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
3	12,690	0.00	0.0	

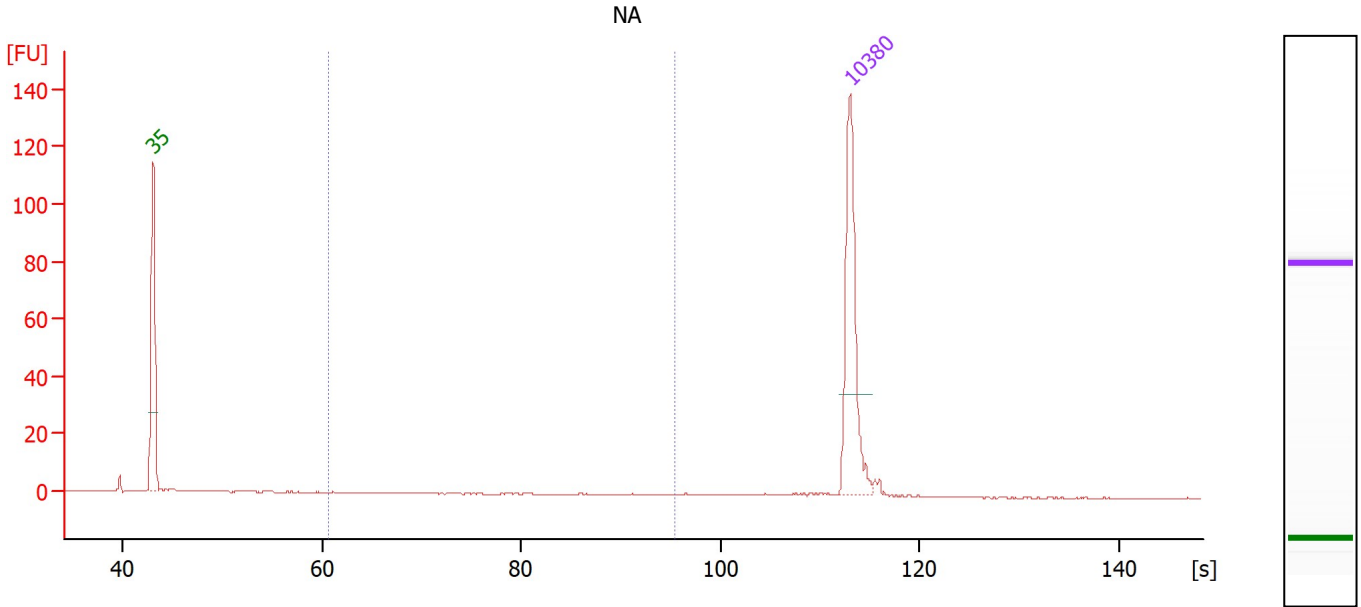
Region table for sample 10 : NA

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	2.4	12	273	38.6	2.10	12.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : NA

Number of peaks found: 0 Corr. Area 1: 5.1
 Noise: 0.2

Peak table for sample 11 : NA

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

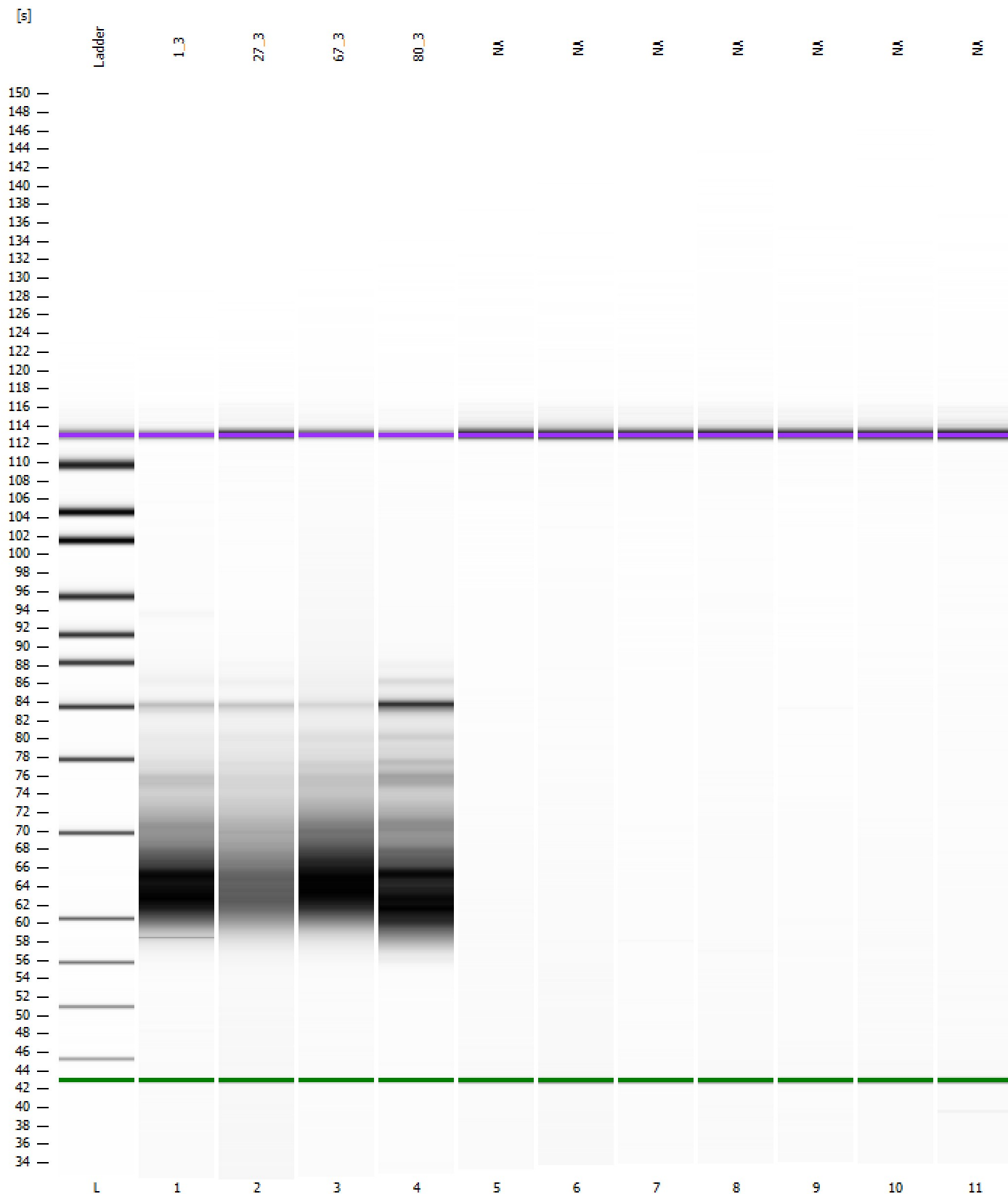
Region table for sample 11 : NA

From [s]	To [s]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
60.58	95.42	5.1	15	482	45.9	3.99	17.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
Modified: 12/10/2019 1:42:05 PM

Gel Image

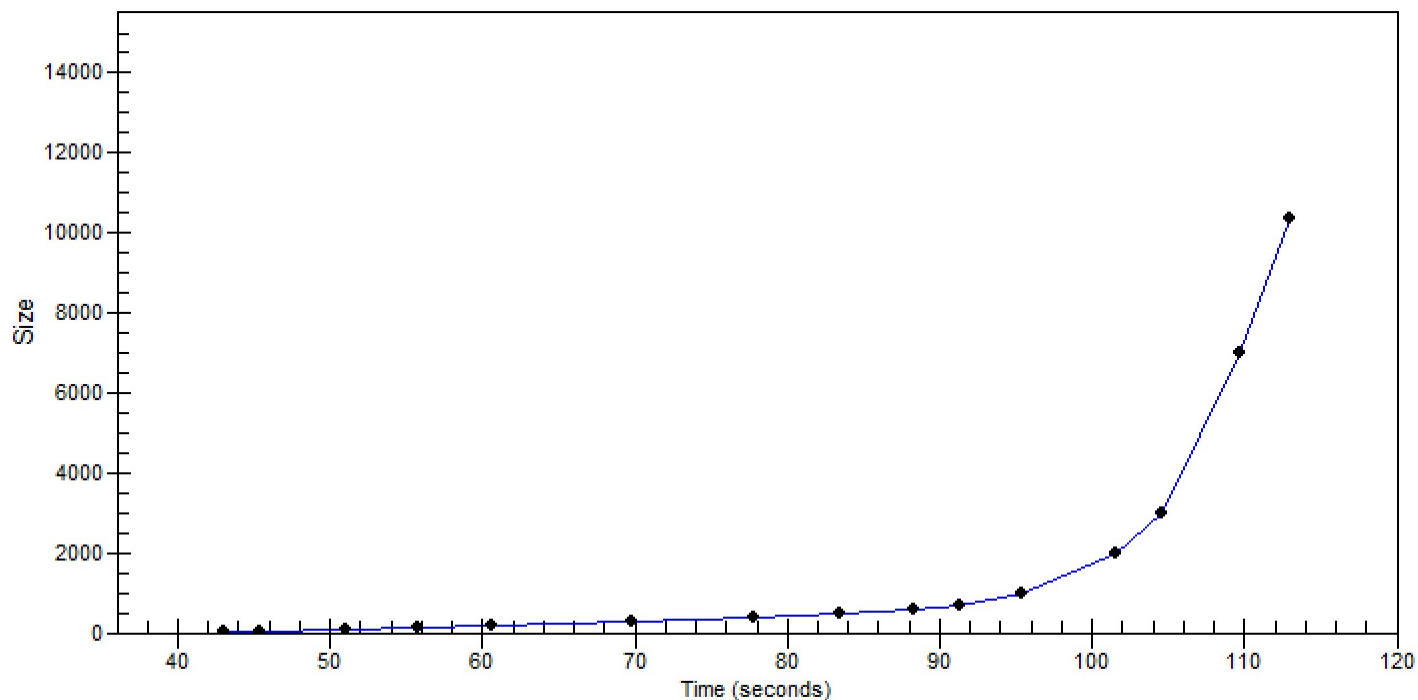


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
Modified: 12/10/2019 1:42:05 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-10_001.xad

Created: 12/10/2019 1:00:39 PM
 Modified: 12/10/2019 1:42:05 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		12/10/2019 1:42:01 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-10\Bioanalyze r1_High Sensitivity DNA Assay_2019-12-10_001.xad)		Instrument	Run		12/10/2019 1:00:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/10/2019 1:00:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/10/2019 1:00:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/10/2019 1:00:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/10/2019 1:00:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/10/2019 1:00:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/10/2019 1:00:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB