

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
Modified: 1/9/2020 5:35:31 PM

Electrophoresis File Run Summary

Instrument Information:

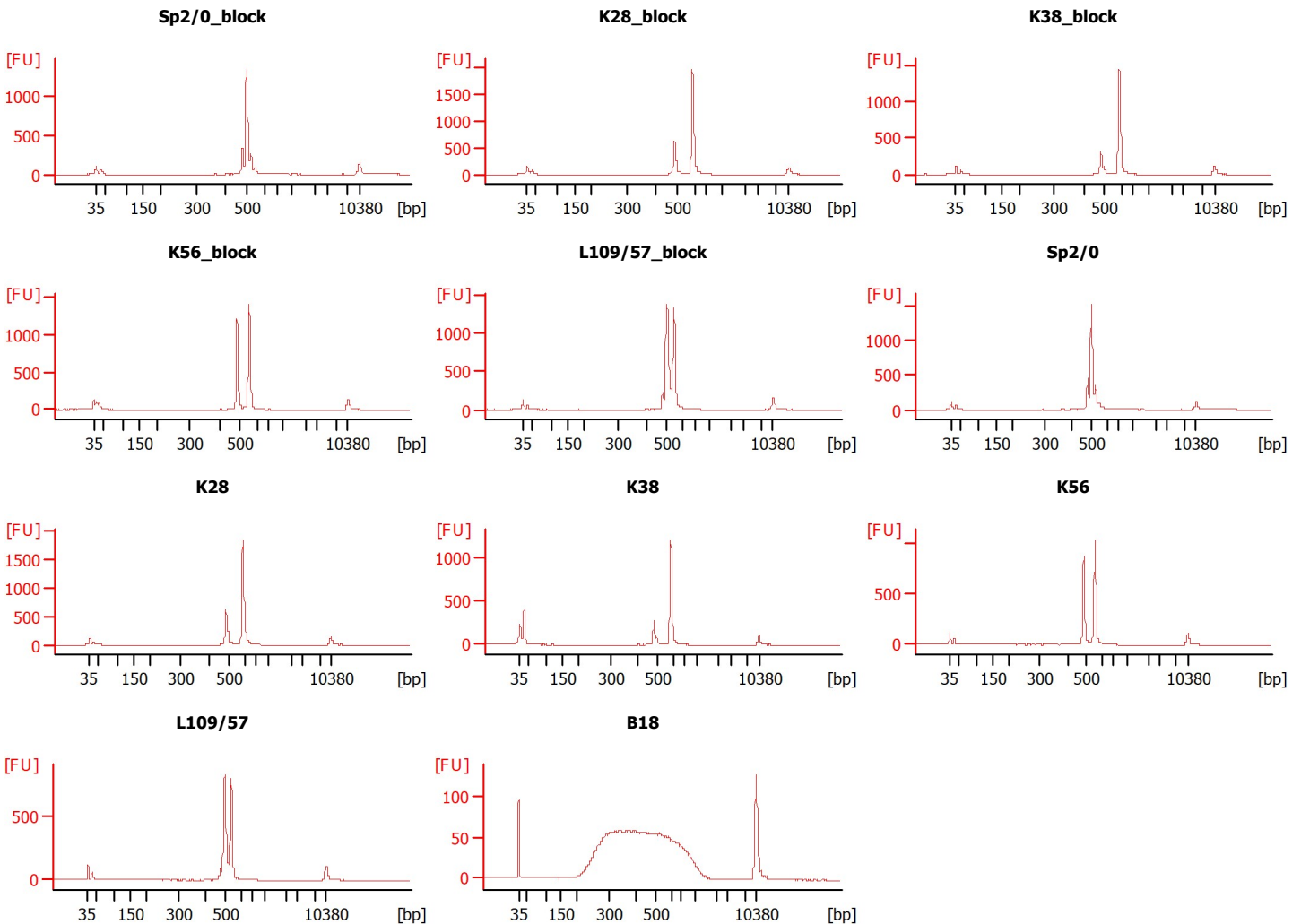
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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 Modified: 1/9/2020 5:35:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Sp2/0_block		<input type="checkbox"/>	✓			
K28_block		<input type="checkbox"/>	✓			
K38_block		<input type="checkbox"/>	✓			
K56_block		<input type="checkbox"/>	✓			
L109/57_block		<input type="checkbox"/>	✓			
Sp2/0		<input type="checkbox"/>	✓			
K28		<input type="checkbox"/>	✓			
K38		<input type="checkbox"/>	✓			
K56		<input type="checkbox"/>	✓			
L109/57		<input type="checkbox"/>	✓			
B18		<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

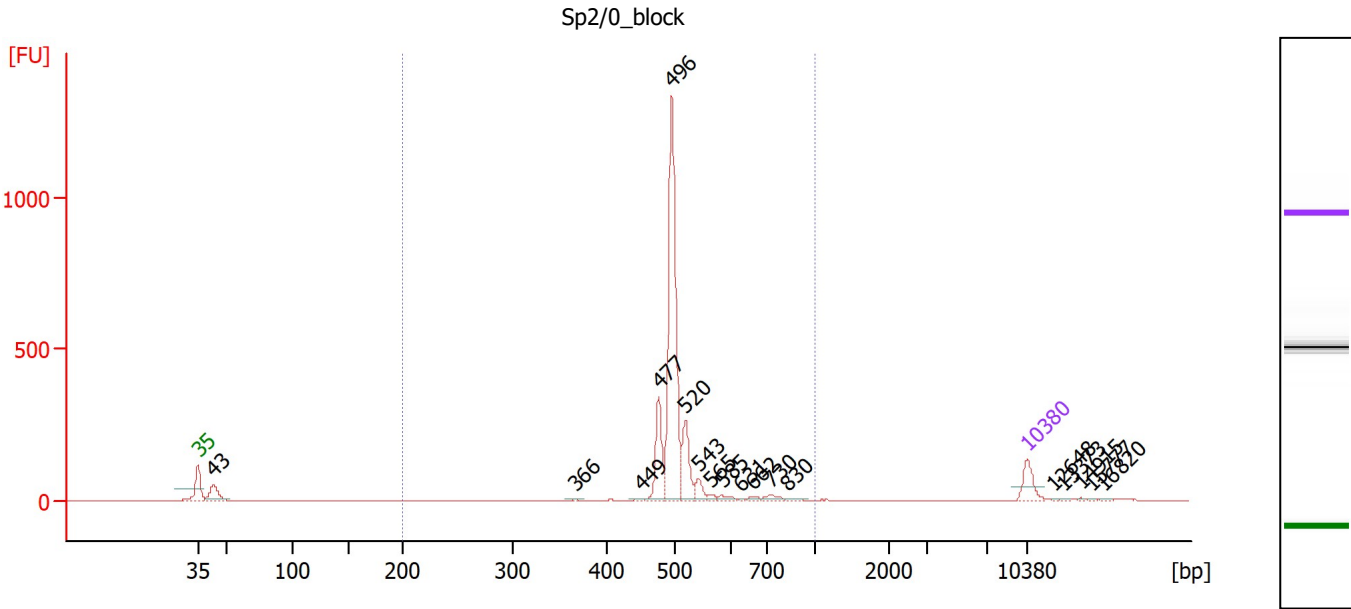
Ladder

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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 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary



Overall Results for sample 1 : Sp2/0_block

Number of peaks found: 18 Corr. Area 1: 1,907.8
 Noise: 0.3

Peak table for sample 1 : Sp2/0_block

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	134.77	4,720.1	
3	366	5.44	22.5	
4	449	8.59	29.0	
5	477	222.10	705.5	
6	496	1,012.13	3,092.6	
7	520	188.17	548.6	
8	543	53.88	150.2	
9	565	14.68	39.4	
10	585	20.58	53.3	
11	631	5.02	12.0	
12	662	14.00	32.0	
13	730	25.10	52.1	
14	830	10.32	18.8	
15	10,380	75.00	10.9	Upper Marker
16	12,648	0.00	0.0	
17	13,373	0.00	0.0	
18	14,915	0.00	0.0	
19	15,777	0.00	0.0	
20	16,820	0.00	0.0	

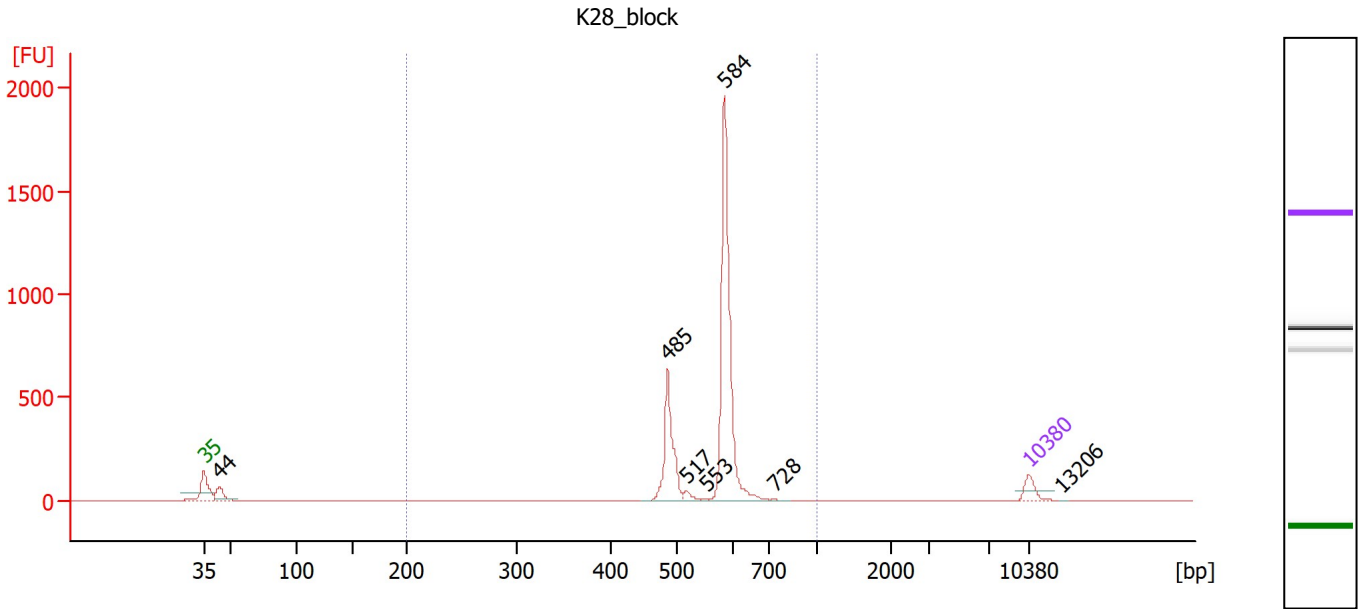
Region table for sample 1 : Sp2/0_block

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,907.8	91	510	10.9	1,585.89	4,767.6	Blue

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Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : K28_block

Number of peaks found: 7 Corr. Area 1: 2,573.3
 Noise: 0.2

Peak table for sample 2 : K28_block

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	160.01	5,562.0	
3	485	544.56	1,700.3	
4	517	41.30	121.1	
5	553	6.87	18.8	
6	584	1,433.75	3,717.9	
7	728	6.79	14.1	
8	10,380	75.00	10.9	Upper Marker
9	13,206	0.00	0.0	

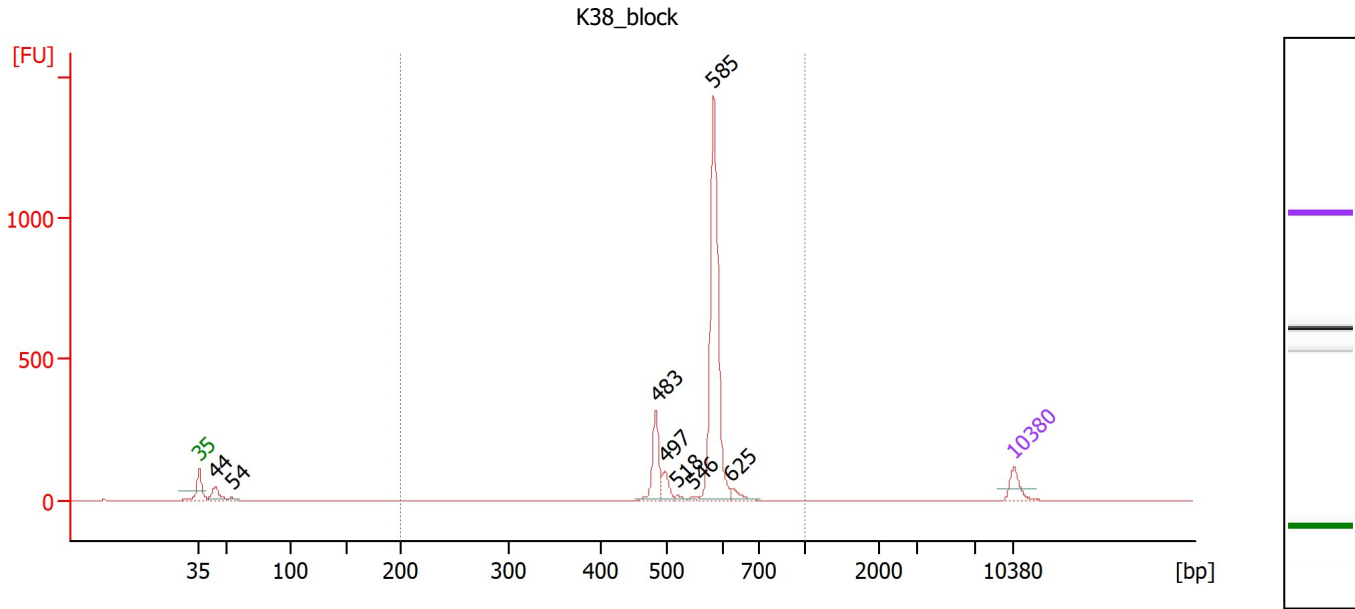
Region table for sample 2 : K28_block

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,573.3	94	564	8.9	2,040.60	5,559.9	Blue

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Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : K38_block

Number of peaks found: 8 Corr. Area 1: 1,802.7
 Noise: 0.3

Peak table for sample 3 : K38_block

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	135.12	4,684.7	
3	54	19.66	553.5	
4	483	243.45	763.6	
5	497	82.50	251.7	
6	518	15.36	44.9	
7	546	10.85	30.1	
8	585	1,200.19	3,109.0	
9	625	46.61	112.9	
10	10,380	75.00	10.9	Upper Marker

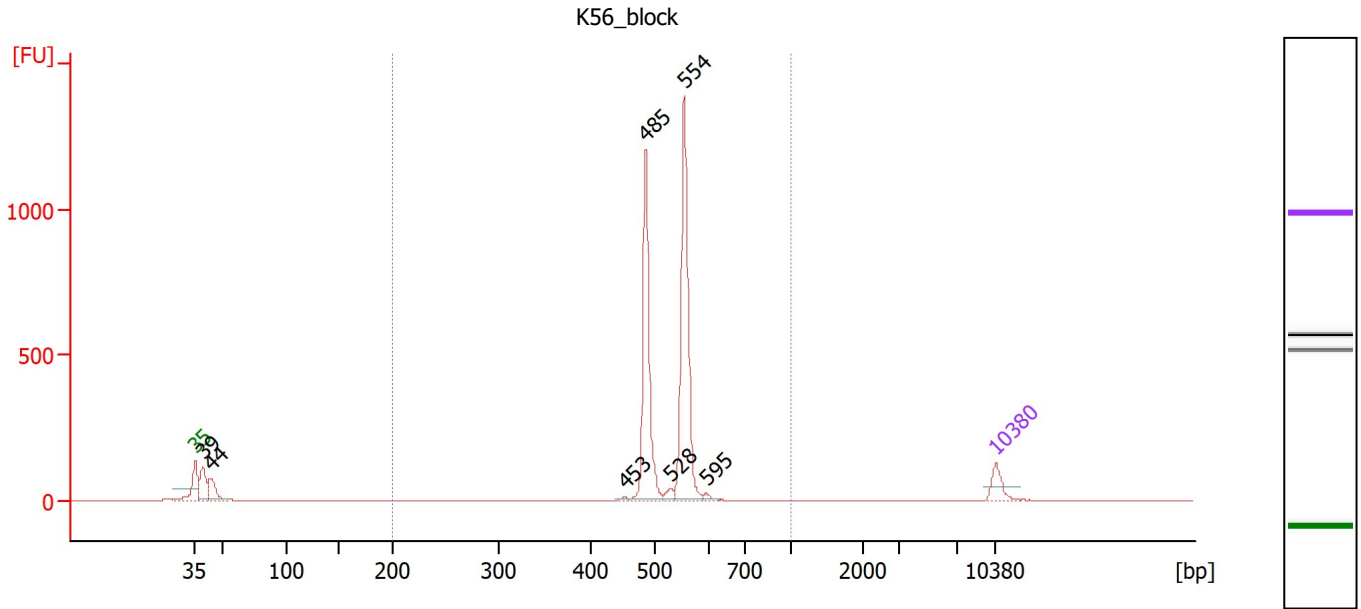
Region table for sample 3 : K38_block

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,802.7	93	569	8.1	1,622.35	4,375.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : K56_block

Number of peaks found: 7 Corr. Area 1: 2,236.1
 Noise: 0.2

Peak table for sample 4 : K56_block

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	211.52	8,128.8	
3	44	173.33	5,988.9	
4	453	7.61	25.4	
5	485	804.01	2,511.0	
6	528	32.65	93.6	
7	554	953.59	2,608.7	
8	595	18.28	46.5	
9	10,380	75.00	10.9	Upper Marker

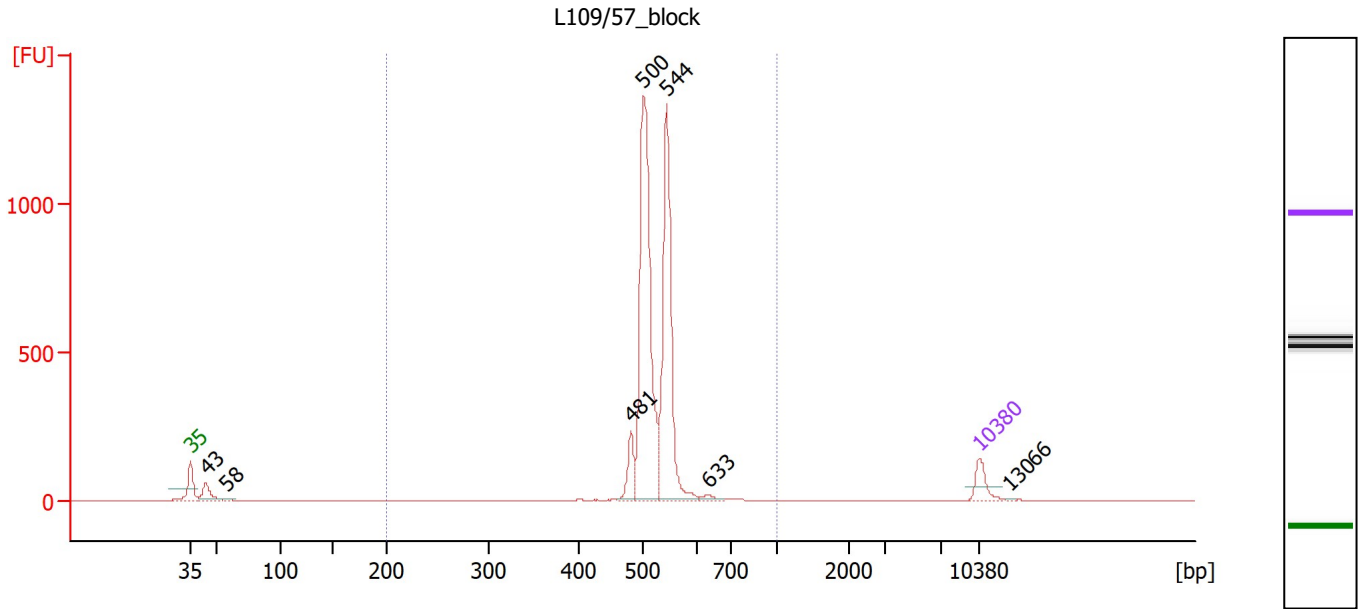
Region table for sample 4 : K56_block

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,236.1	87	527	7.5	1,840.06	5,340.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : L109/57 block

Number of peaks found: 7 Corr. Area 1: 3,502.9
 Noise: 0.3

Peak table for sample 5 : L109/57 block

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	124.19	4,332.2	
3	58	9.25	242.6	
4	481	140.14	441.9	
5	500	1,393.36	4,225.4	
6	544	990.15	2,759.1	
7	633	20.13	48.2	
8	10,380	75.00	10.9	Upper Marker
9	13,066	0.00	0.0	

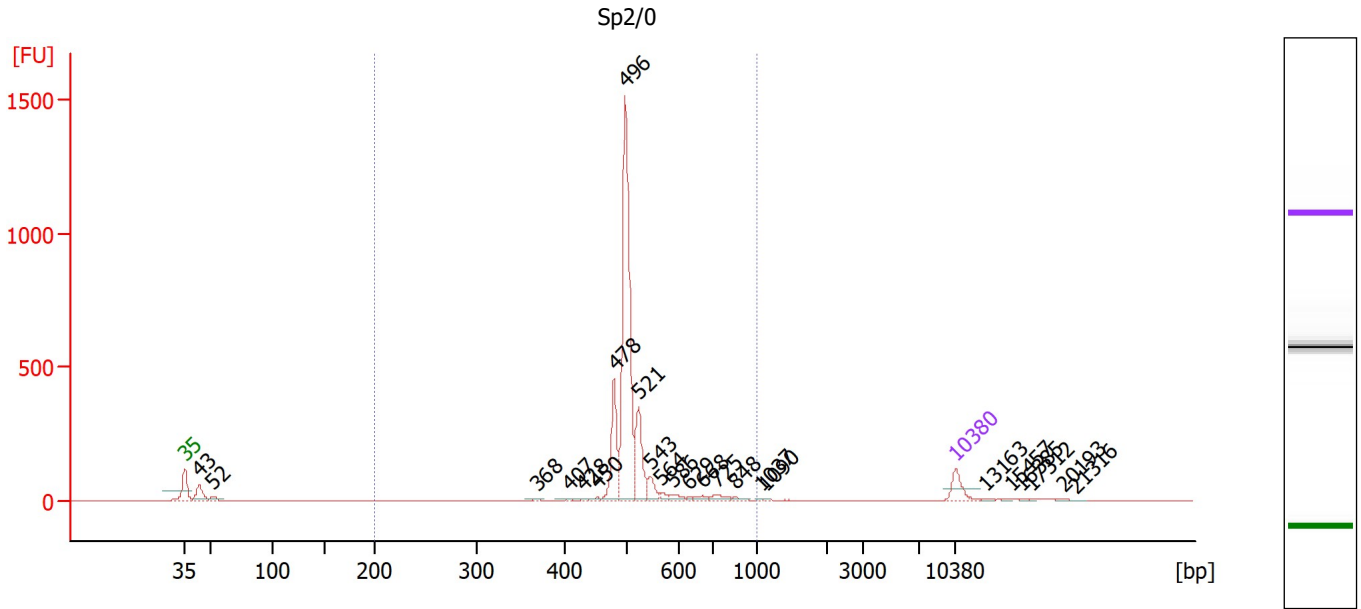
Region table for sample 5 : L109/57 block

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,502.9	95	522	6.5	2,562.42	7,481.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sp2/0

Number of peaks found: 24 Corr. Area 1: 2,298.9
 Noise: 0.3

Peak table for sample 6 : Sp2/0

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	134.45	4,707.2	
3	52	29.48	862.8	
4	368	8.94	36.8	
5	407	9.79	36.4	
6	428	4.39	15.5	
7	450	11.66	39.2	
8	478	313.13	991.7	
9	496	1,216.61	3,715.0	
10	521	259.92	756.0	
11	543	76.71	213.9	
12	564	19.93	53.6	
13	586	29.45	76.1	
14	629	7.43	17.9	
15	668	20.07	45.5	
16	725	35.64	74.5	
17	848	13.72	24.5	
18	1,037	2.62	3.8	
19	1,090	2.91	4.0	
20	10,380	75.00	10.9	Upper Marker
21	13,163	0.00	0.0	
22	15,457	0.00	0.0	
23	16,385	0.00	0.0	
24	17,312	0.00	0.0	
25	20,193	0.00	0.0	
26	21,316	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...

... Region table for sample 6 :

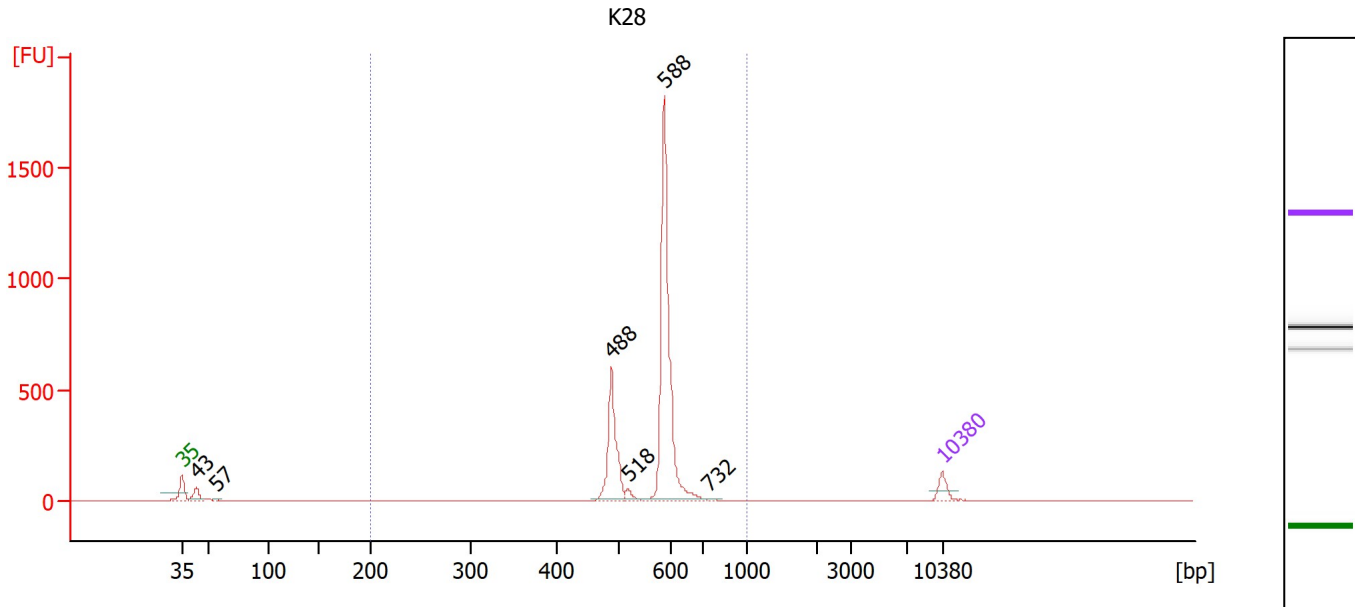
Sp2/0

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,298.9	92	512	11.5	2,025.01	6,064.9	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : K28

Number of peaks found: 6 Corr. Area 1: 2,468.5
 Noise: 0.3

Peak table for sample 7 : K28

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	128.10	4,505.0	
3	57	10.28	273.7	
4	488	607.54	1,886.4	
5	518	46.66	136.6	
6	588	1,581.04	4,073.6	
7	732	8.43	17.4	
8	10,380	75.00	10.9	Upper Marker

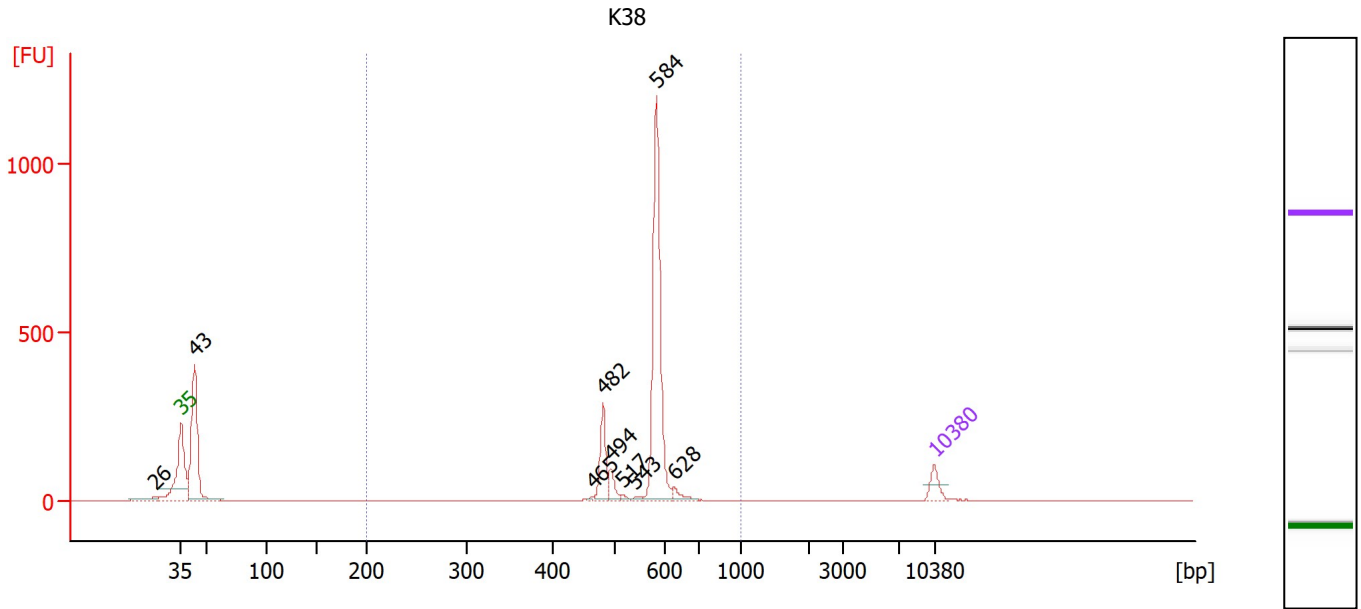
Region table for sample 7 : K28

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,468.5	95	569	9.3	2,252.31	6,080.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : K38

Number of peaks found: 9 Corr. Area 1: 1,471.5
 Noise: 0.2

Peak table for sample 8 : K38

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	26	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	43	1,117.80	39,531.3	
4	465	6.61	21.6	
5	482	255.47	802.7	
6	494	84.36	258.6	
7	517	15.83	46.4	
8	543	12.89	35.9	
9	584	1,186.85	3,078.6	
10	628	48.00	115.8	
11	10,380	75.00	10.9	Upper Marker

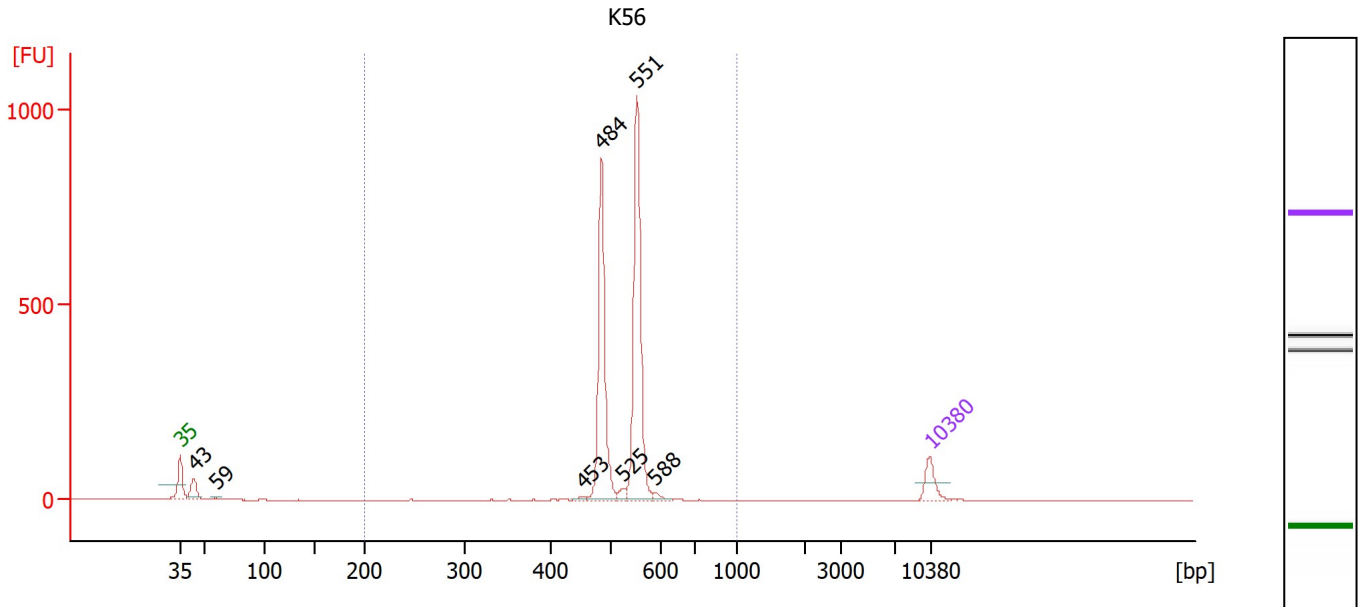
Region table for sample 8 : K38

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,471.5	68	567	8.2	1,629.93	4,409.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : K56

Number of peaks found: 7 Corr. Area 1: 1,753.4
 Noise: 0.2

Peak table for sample 9 : K56

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	126.31	4,463.4	
3	59	11.67	301.5	
4	453	8.17	27.3	
5	484	727.18	2,275.2	
6	525	26.79	77.3	
7	551	873.38	2,400.1	
8	588	17.64	45.5	
9	10,380	75.00	10.9	Upper Marker

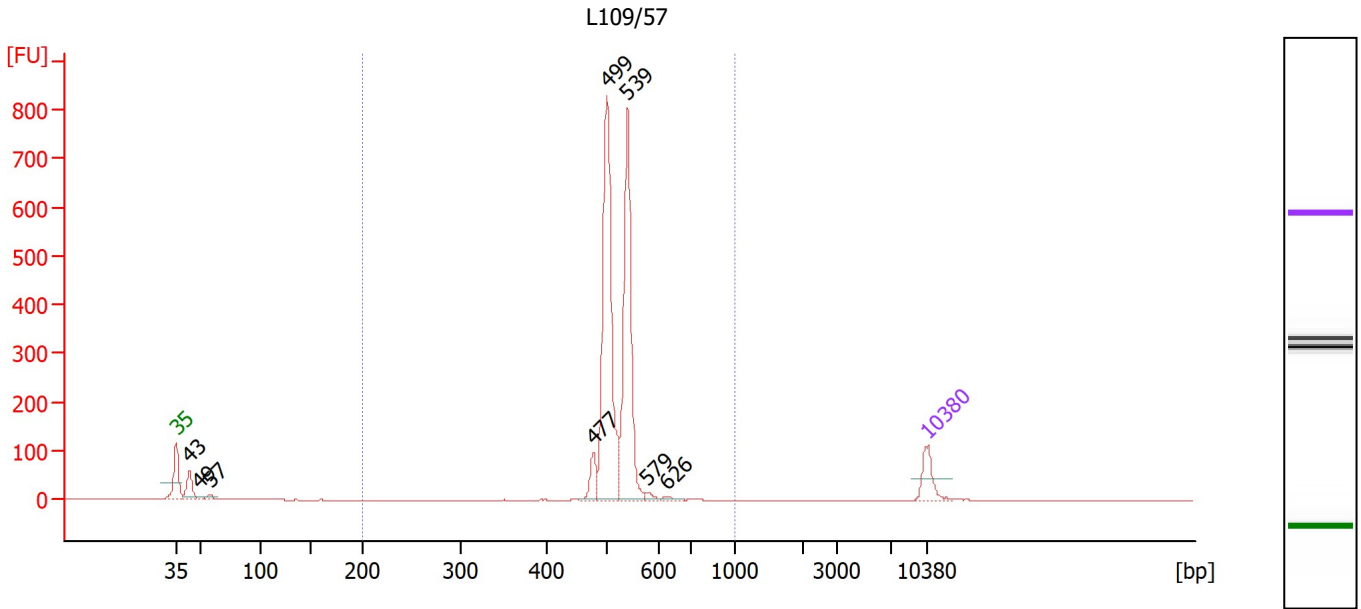
Region table for sample 9 : K56

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,753.4	94	524	7.7	1,674.58	4,888.1	Blue

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Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : L109/57

Number of peaks found: 8 Corr. Area 1: 1,843.6
 Noise: 0.2

Peak table for sample 10 : L109/57

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	123.79	4,372.4	
3	49	12.00	371.7	
4	57	20.51	541.5	
5	477	75.40	239.7	
6	499	907.25	2,753.1	
7	539	683.70	1,921.3	
8	579	15.17	39.7	
9	626	10.87	26.3	
10	10,380	75.00	10.9	Upper Marker

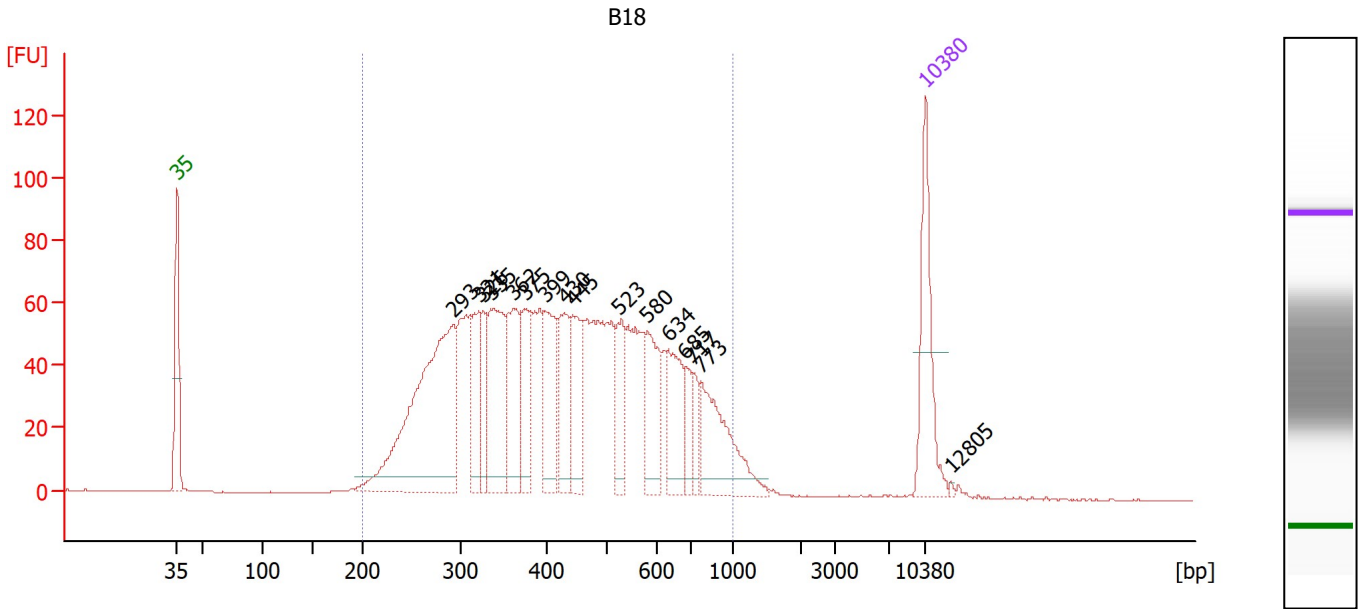
Region table for sample 10 : L109/57

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,843.6	93	518	5.4	1,694.24	4,970.1	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-09_001.xad

Created: 1/9/2020 4:54:10 PM
 Modified: 1/9/2020 5:35:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : B18

Number of peaks found: 16 Corr. Area 1: 2,019.2
 Noise: 0.2

Peak table for sample 11 : B18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	353.13	1,828.5	
3	321	70.77	333.6	
4	326	51.03	236.9	
5	335	135.21	611.3	
6	362	91.04	381.2	
7	375	71.11	287.3	
8	399	89.14	338.3	
9	430	73.85	260.5	
10	445	78.14	266.3	
11	523	50.51	146.3	
12	580	71.97	188.0	
13	634	66.95	160.1	
14	685	27.95	61.8	
15	717	22.65	47.8	
16	773	100.84	197.5	
17	10,380	75.00	10.9	Upper Marker
18	12,805	0.00	0.0	

Region table for sample 11 : B18

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,019.2	97	452	35.7	1,852.65	7,318.7	Blue

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Created: 1/9/2020 4:54:10 PM
Modified: 1/9/2020 5:35:31 PM

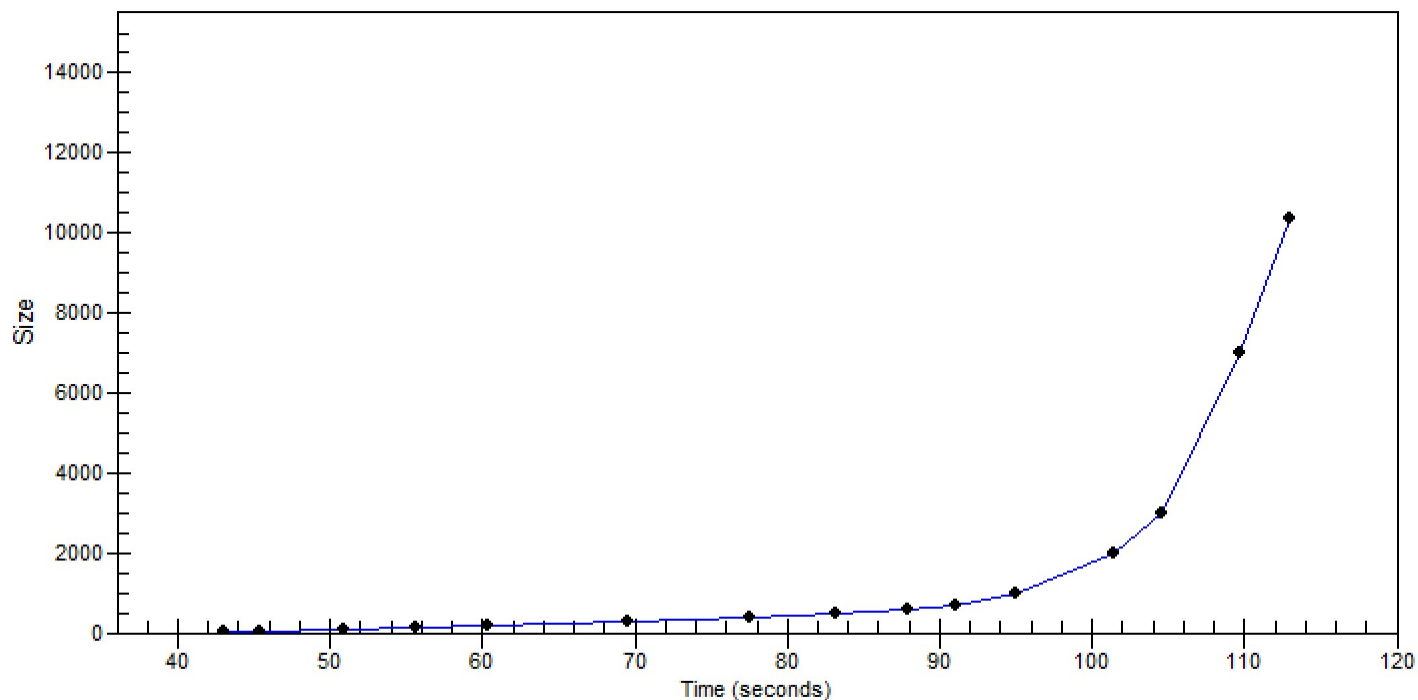
Gel Image

Assay Class: High Sensitivity DNA Assay
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Created: 1/9/2020 4:54:10 PM
Modified: 1/9/2020 5:35:31 PM

Curves

Standard Curve



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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		1/9/2020 5:35:29 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-09\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-09_001.xad)		Instrument	Run		1/9/2020 4:54:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/9/2020 4:54:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/9/2020 4:54:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/9/2020 4:54:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/9/2020 4:54:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/9/2020 4:54:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/9/2020 4:54:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB