

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-22_001.xad

Created: 9/22/2020 4:30:53 PM
Modified: 9/22/2020 5:19:18 PM

Electrophoresis File Run Summary

Instrument Information:

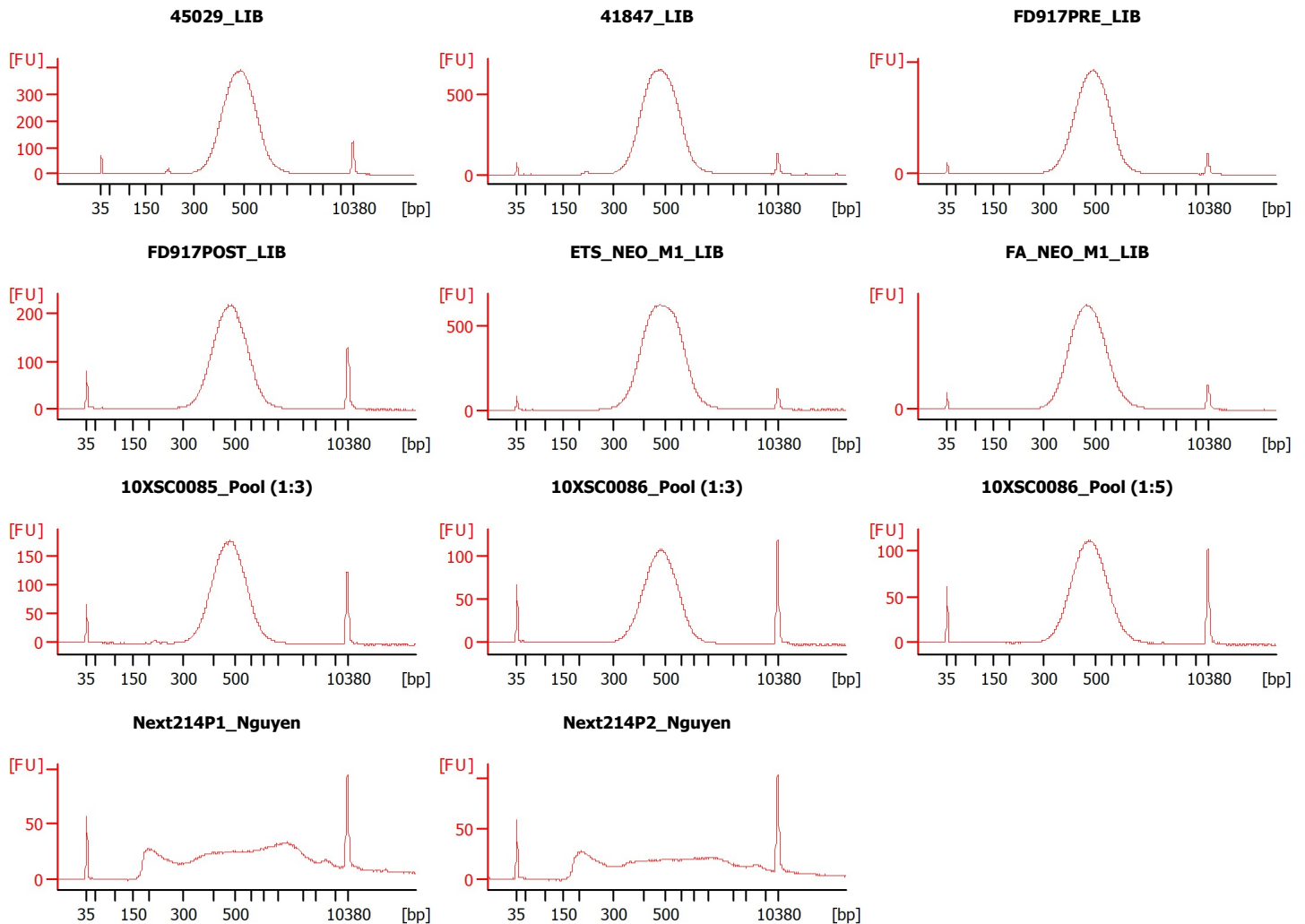
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
45029_LIB		<input type="checkbox"/>	✓			
41847_LIB		<input type="checkbox"/>	✓			
FD917PRE_LIB		<input type="checkbox"/>	✓			
FD917POST_LIB		<input type="checkbox"/>	✓			
ETS_NEO_M1_LIB		<input type="checkbox"/>	✓			
FA_NEO_M1_LIB		<input type="checkbox"/>	✓			
10XSC0085_Pool (1:3)		<input type="checkbox"/>	✓			
10XSC0086_Pool (1:3)		<input type="checkbox"/>	✓			
10XSC0086_Pool (1:5)		<input type="checkbox"/>	✓			
Next214P1_Nguyen		<input type="checkbox"/>	✓			
Next214P2_Nguyen		<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

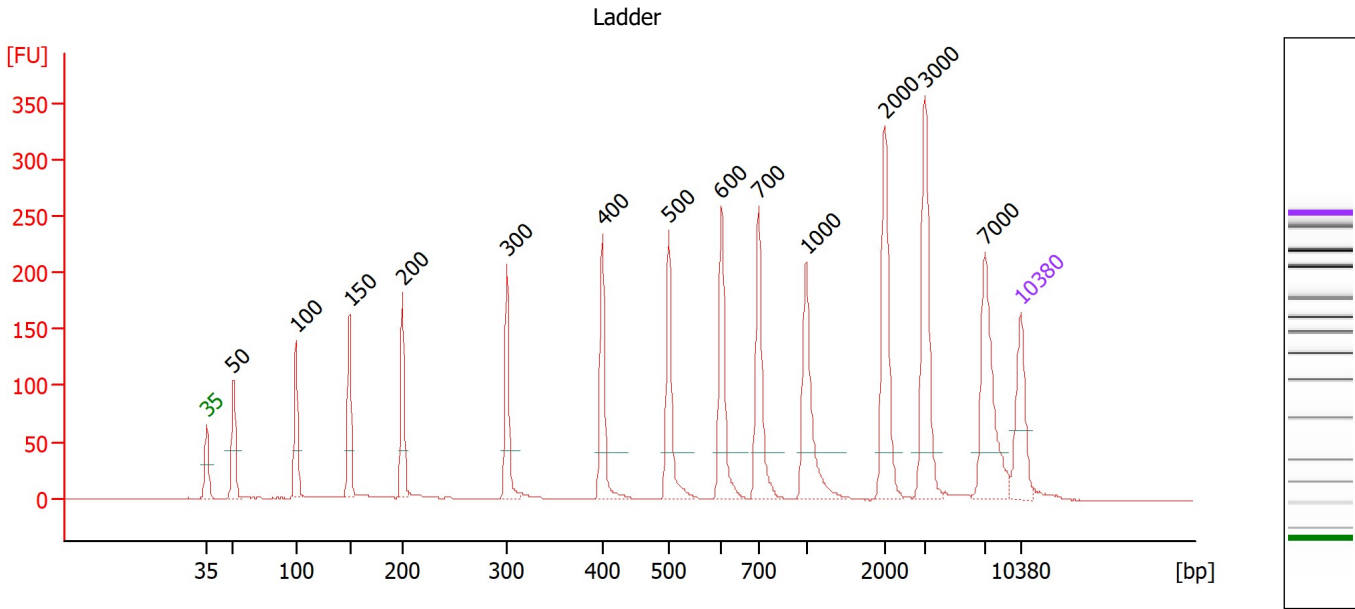
Ladder

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

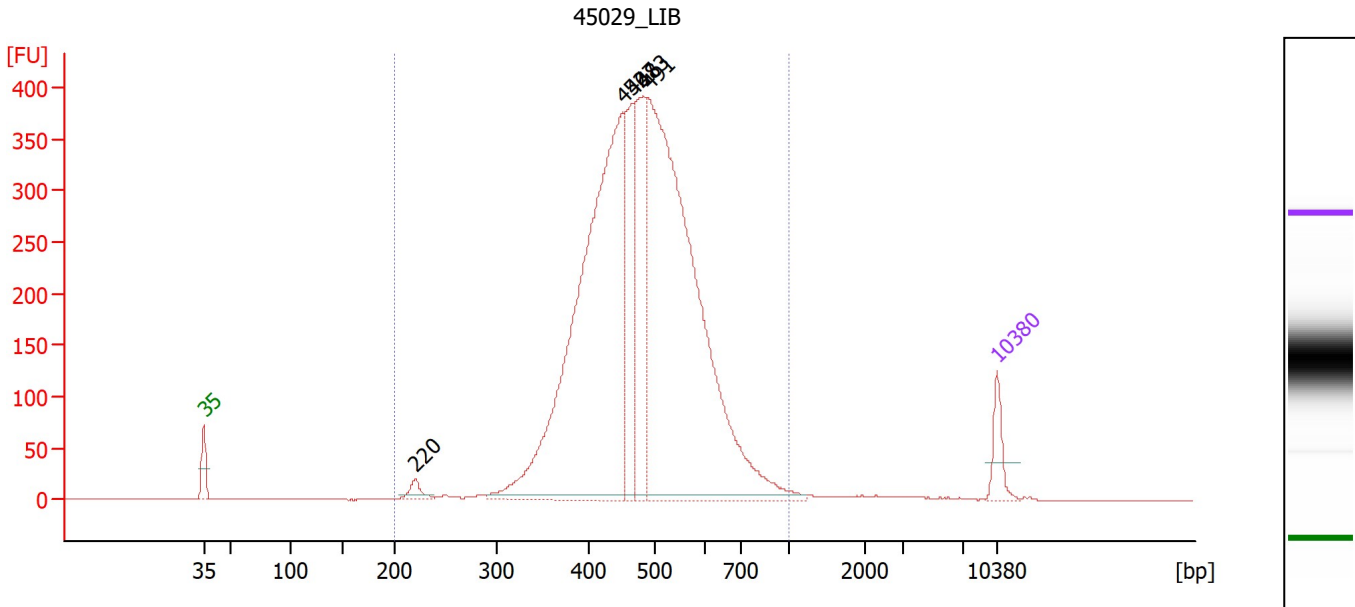
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 45029 LIB

Number of peaks found: 5 Corr. Area 1: 5,573.5
 Noise: 0.3

Peak table for sample 1 : 45029 LIB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	220	53.39	366.9	
3	452	2,322.42	7,776.6	
4	467	431.70	1,399.5	
5	483	557.87	1,749.7	
6	491	2,596.34	8,006.1	
7	10,380	75.00	10.9	Upper Marker

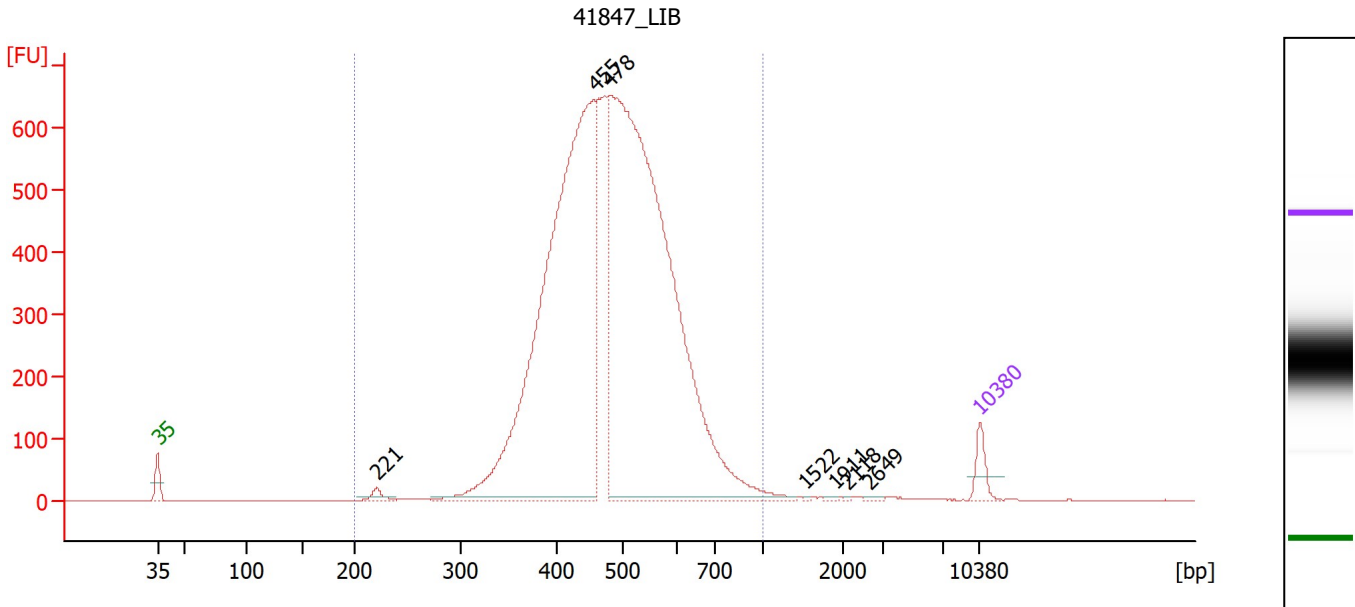
Region table for sample 1 : 45029 LIB

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	5,573.5	99	485	19.3	5,930.37	19,459.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 41847 LIB

Number of peaks found: 7 Corr. Area 1: 9,616.2
 Noise: 0.2

Peak table for sample 2 : 41847 LIB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	221	46.60	320.0	
3	455	4,015.28	13,360.7	
4	478	4,928.89	15,618.5	
5	1,522	3.02	3.0	
6	1,911	5.73	4.5	
7	2,118	3.75	2.7	
8	2,649	9.66	5.5	
9	10,380	75.00	10.9	Upper Marker

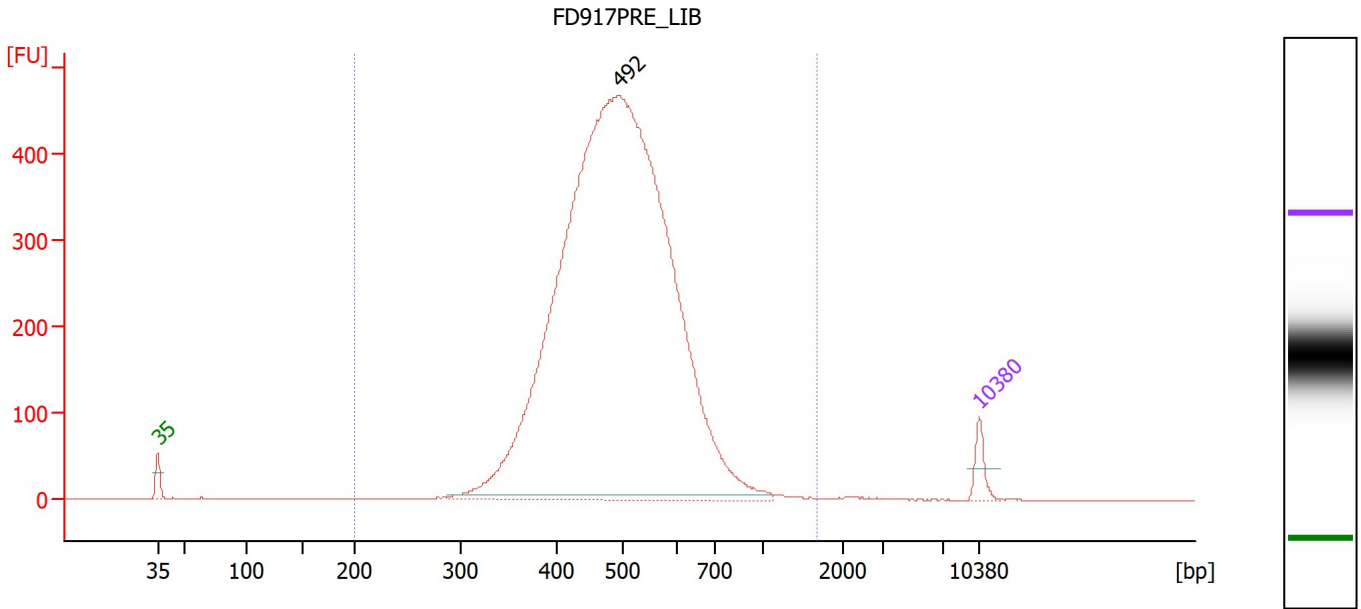
Region table for sample 2 : 41847 LIB

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	9,616.2	99	488	19.0	9,608.79	31,252.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : FD917PRE_LIB

Number of peaks found: 1 Corr. Area 1: 6,436.4
 Noise: 0.4

Peak table for sample 3 : FD917PRE_LIB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	492	8,671.62	26,691.8	
3	10,380	75.00	10.9	Upper Marker

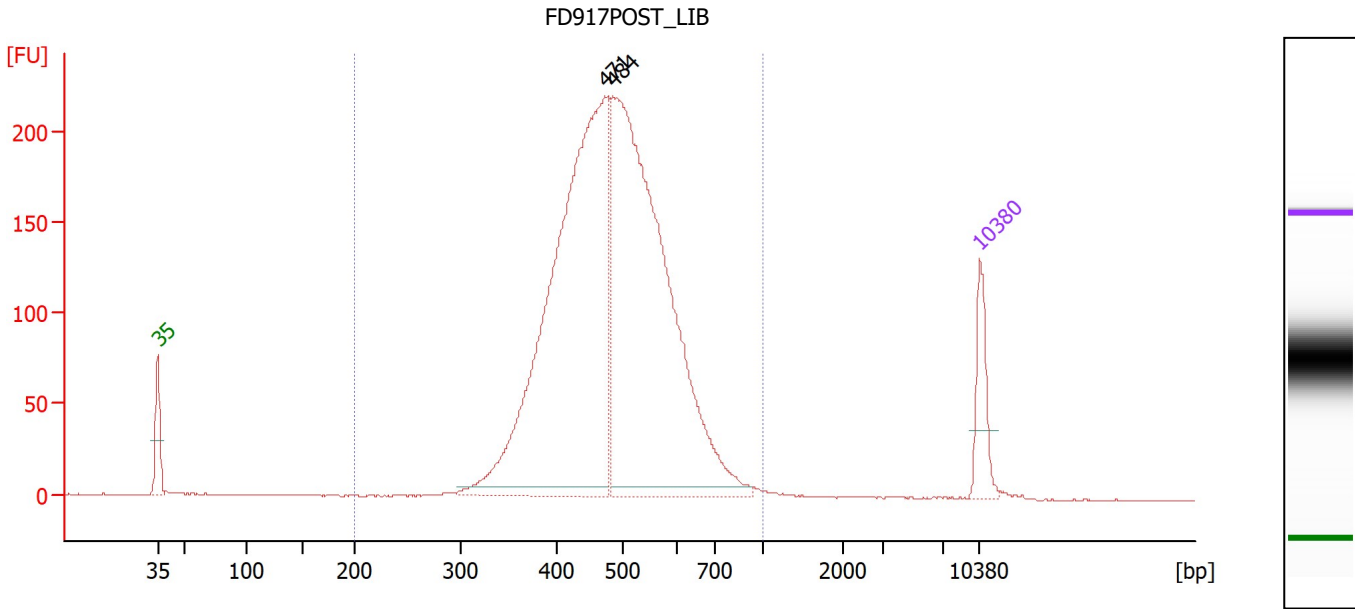
Region table for sample 3 : FD917PRE_LIB

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,694	6,436.4	99	501	20.9	8,625.20	27,313.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : FD917POST_LIB

Number of peaks found: 2 Corr. Area 1: 3,011.8
 Noise: 0.3

Peak table for sample 4 : FD917POST_LIB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	471	1,353.23	4,350.4	
3	484	1,330.20	4,163.7	
4	10,380	75.00	10.9	Upper Marker

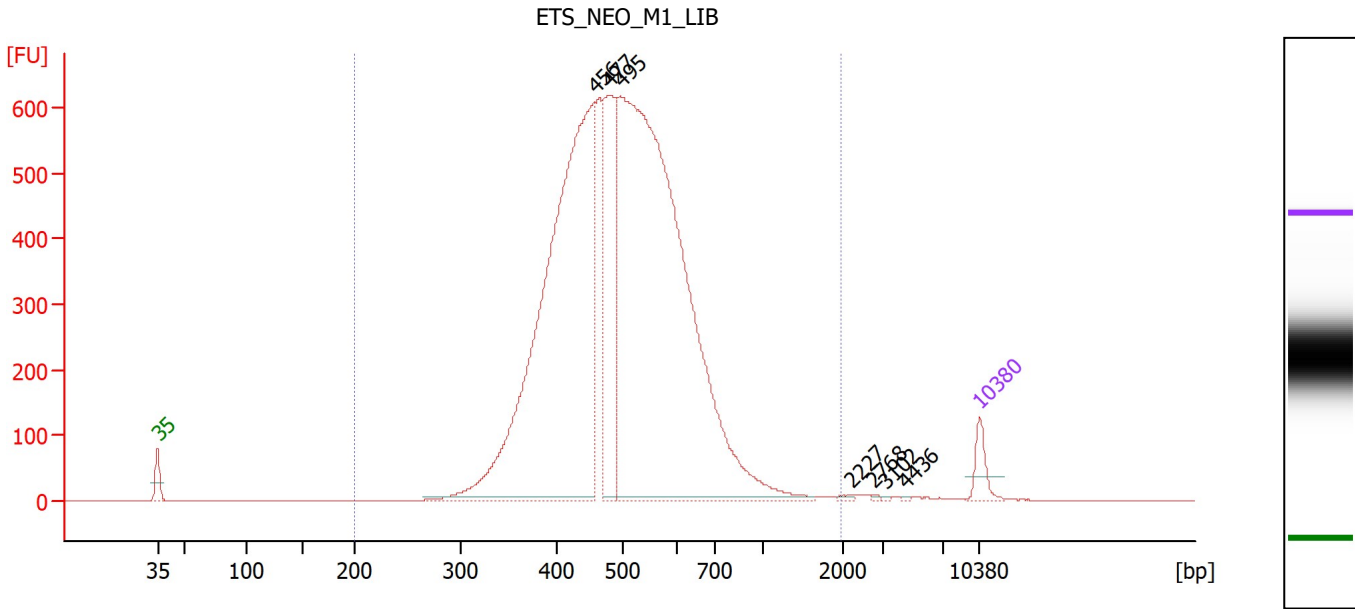
Region table for sample 4 : FD917POST_LIB

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	3,011.8	98	489	18.3	2,704.19	8,735.4	Blue

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



Overall Results for sample 5 : ETS NEO M1 LIB

Number of peaks found: 7 Corr. Area 1: 9,967.4
 Noise: 0.2

Peak table for sample 5 : ETS NEO M1 LIB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	456	3,532.53	11,747.0	
3	477	908.09	2,883.6	
4	495	4,660.57	14,259.3	
5	2,227	7.93	5.4	
6	2,768	4.47	2.4	
7	3,102	3.81	1.9	
8	4,436	3.24	1.1	
9	10,380	75.00	10.9	Upper Marker

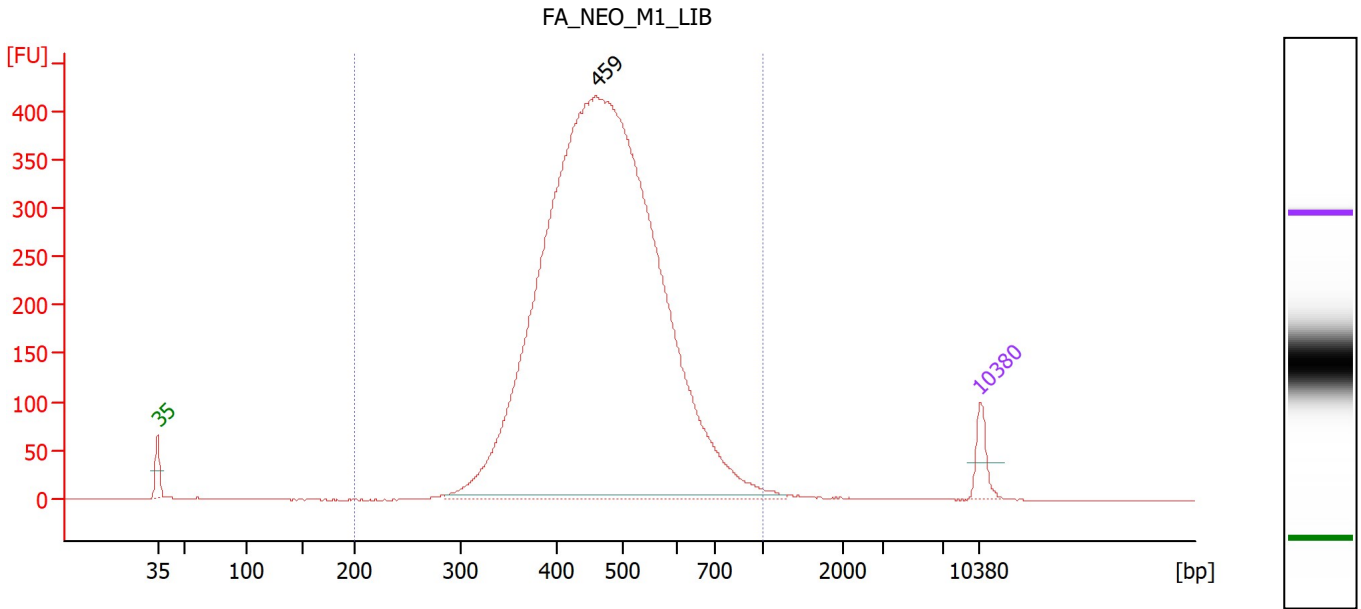
Region table for sample 5 : ETS NEO M1 LIB

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,985	9,967.4	99	509	25.8	9,301.34	29,413.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : FA_NEO_M1_LIB

Number of peaks found: 1 Corr. Area 1: 6,085.5
 Noise: 0.4

Peak table for sample 6 : FA_NEO_M1_LIB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	459	7,314.34	24,170.7	
3	10,380	75.00	10.9	Upper Marker

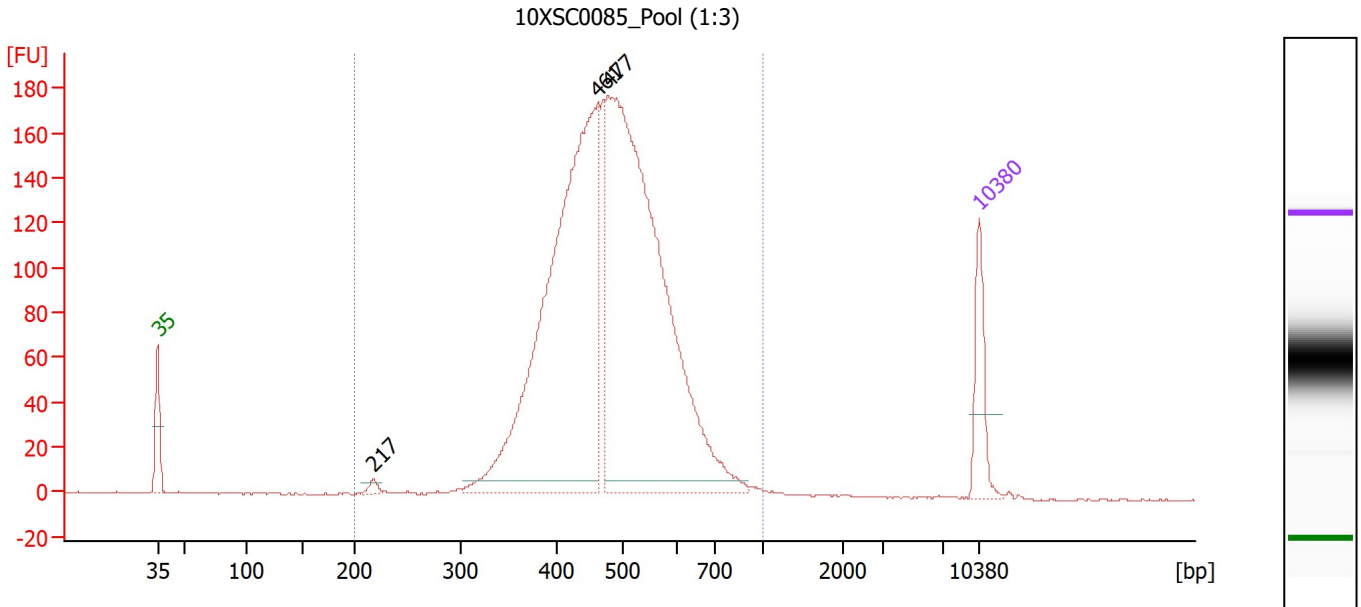
Region table for sample 6 : FA_NEO_M1_LIB

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	6,085.5	99	478	19.6	7,263.31	24,096.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 10XSC0085 Pool (1:3)

Number of peaks found: 3 Corr. Area 1: 2,399.6
 Noise: 0.3

Peak table for sample 7 : 10XSC0085 Pool (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	217	12.13	84.6	
3	461	1,123.80	3,693.7	
4	477	1,275.71	4,048.8	
5	10,380	75.00	10.9	Upper Marker

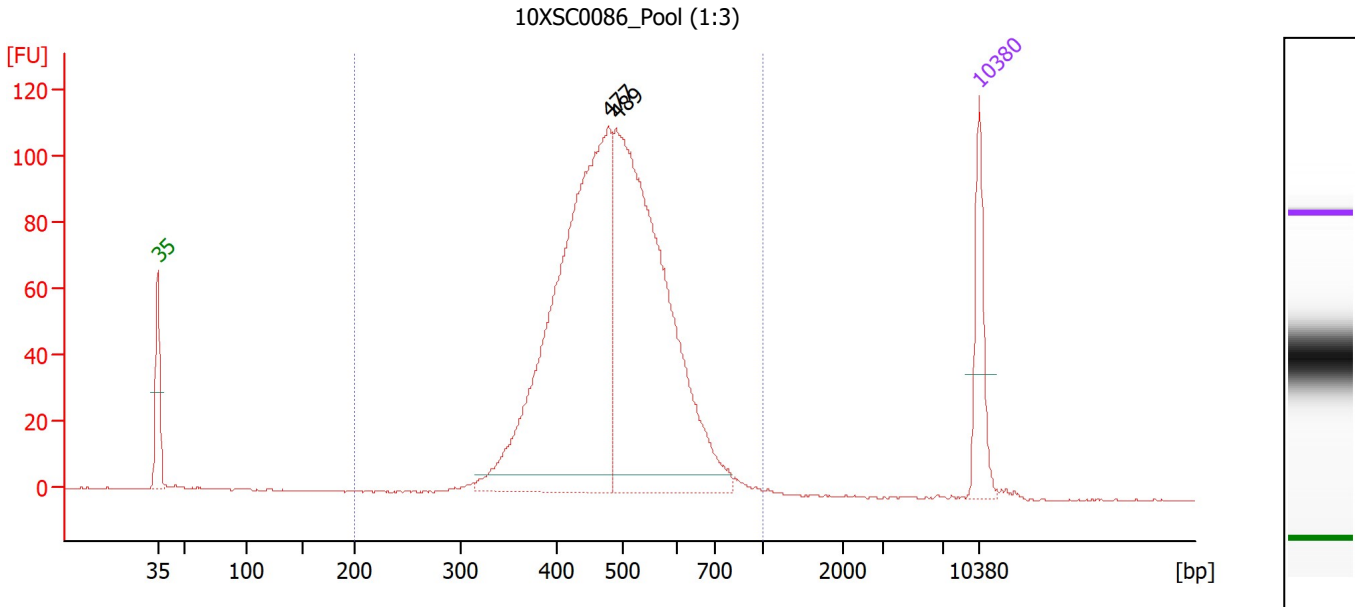
Region table for sample 7 : 10XSC0085 Pool (1:3)

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	2,399.6	99	483	18.5	2,566.15	8,405.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-22_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 10XSC0086 Pool (1:3)

Number of peaks found: 2 Corr. Area 1: 1,447.3
 Noise: 0.2

Peak table for sample 8 : 10XSC0086 Pool (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	477	859.88	2,732.7	
3	489	804.37	2,493.3	
4	10,380	75.00	10.9	Upper Marker

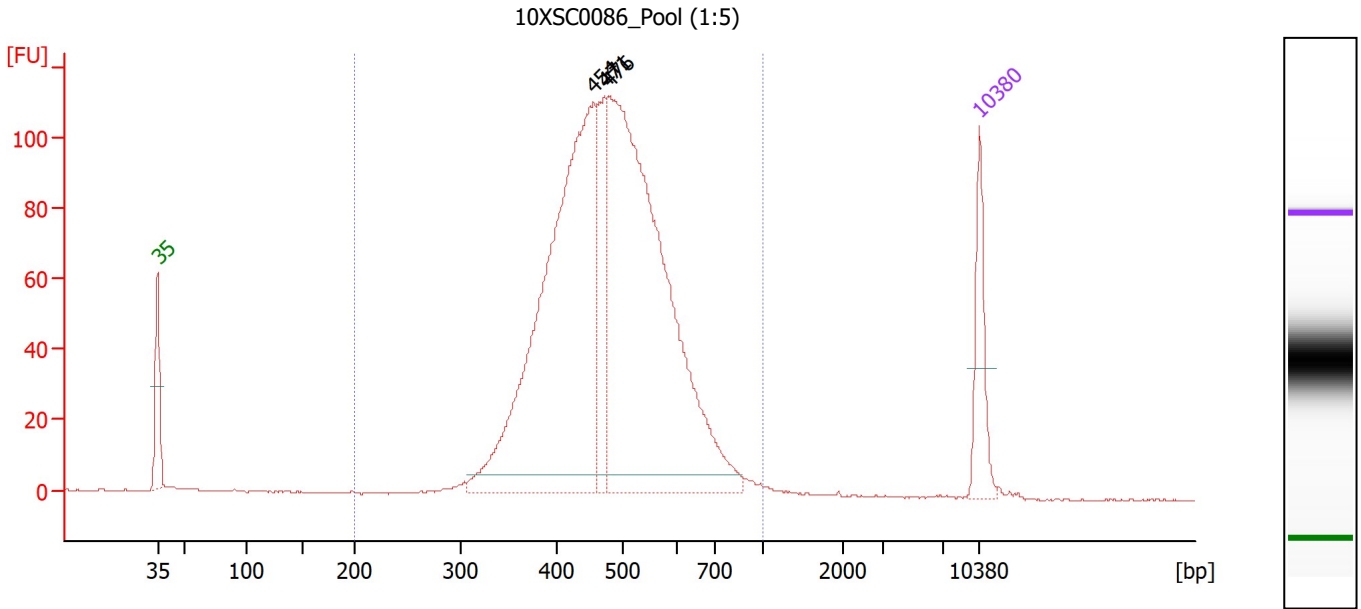
Region table for sample 8 : 10XSC0086 Pool (1:3)

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	1,447.3	99	490	17.8	1,679.61	5,395.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-22_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 10XSC0086 Pool (1:5)

Number of peaks found: 3 Corr. Area 1: 1,606.2
 Noise: 0.2

Peak table for sample 9 : 10XSC0086 Pool (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	454	908.49	3,032.5	
3	471	150.01	482.4	
4	476	1,029.14	3,273.9	
5	10,380	75.00	10.9	Upper Marker

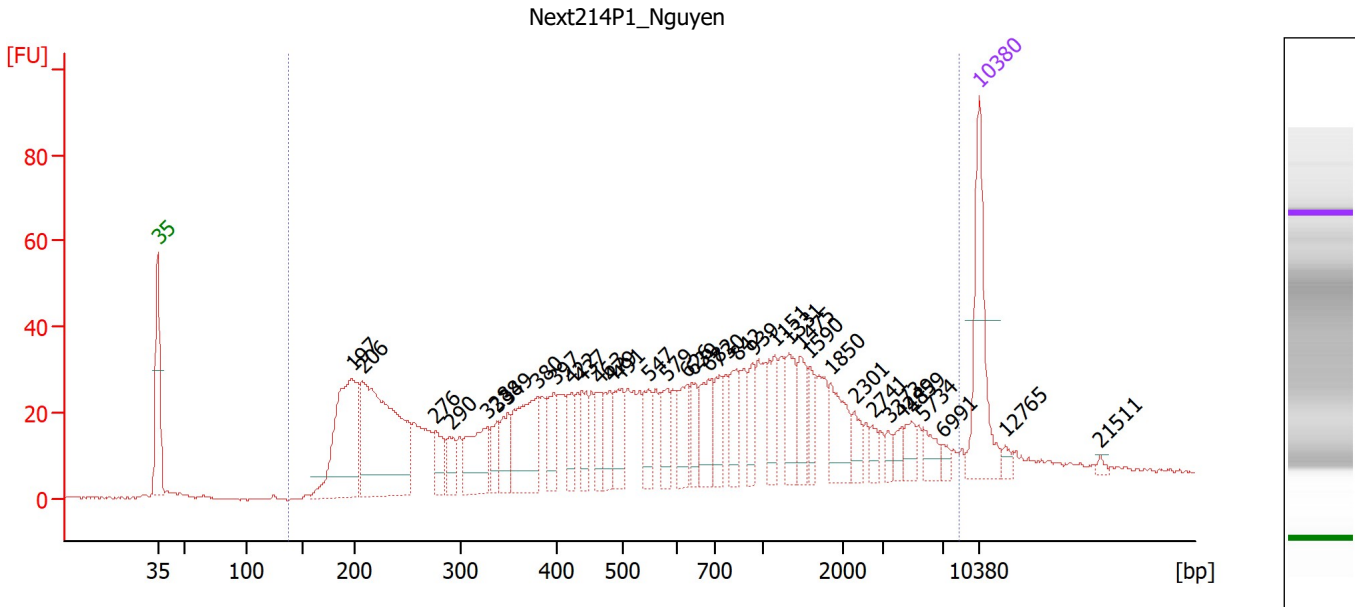
Region table for sample 9 : 10XSC0086 Pool (1:5)

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	1,606.2	99	485	19.3	2,120.66	6,927.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : Next214P1_Nguyen

Number of peaks found: 36 Corr. Area 1: 1,252.6
 Noise: 0.3

Peak table for sample 10 : Next214P1_Nguyen

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	197	174.21	1,342.0	
3	206	259.50	1,904.6	
4	276	31.05	170.4	
5	290	24.12	126.2	
6	328	62.13	287.0	
7	338	23.11	103.6	
8	349	31.57	137.1	
9	380	87.37	348.5	
10	397	32.03	122.2	
11	422	25.97	93.3	
12	437	27.75	96.2	
13	463	23.59	77.2	
14	479	26.90	85.0	
15	491	34.33	105.9	
16	547	26.38	73.1	
17	579	26.69	69.9	
18	626	36.04	87.2	
19	639	22.67	53.8	
20	682	38.05	84.5	
21	730	28.71	59.6	
22	842	28.40	51.1	
23	939	21.28	34.3	
24	1,151	32.31	42.5	
25	1,331	31.55	35.9	
26	1,475	28.10	28.9	

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Electropherogram Summary Continued ...

... Peak table for sample 10 : Next214P1_Nguyen

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,590	17.41	16.6	
28	1,850	37.29	30.5	
29	2,301	14.08	9.3	
30	2,741	8.70	4.8	
31	3,373	6.75	3.0	
32	4,249	9.71	3.5	
33	4,859	13.15	4.1	
34	5,734	13.80	3.6	
35	6,991	5.61	1.2	
36	10,380	75.00	10.9	Upper Marker
37	12,765	0.00	0.0	
38	21,511	0.00	0.0	

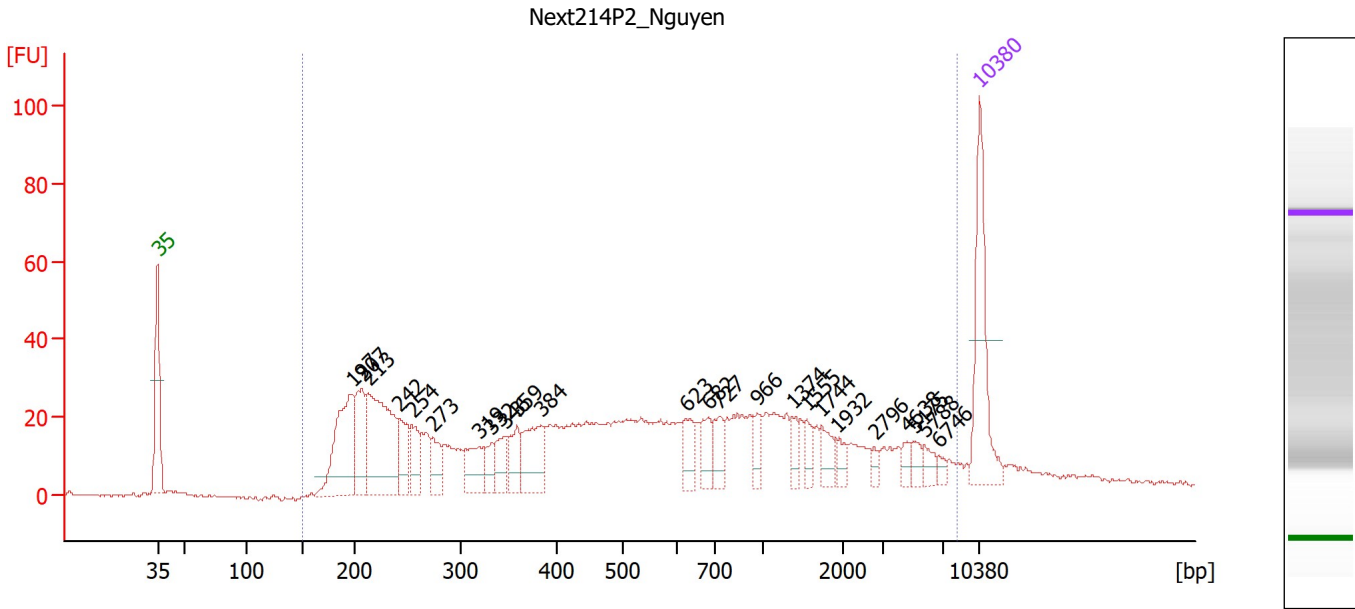
Region table for sample 10 : Next214P1_Nguyen

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
137	8,519	1,252.6	97	1,040	100.0	1,665.30	6,429.6	

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Electropherogram Summary Continued ...



Overall Results for sample 11 : Next214P2_Nguyen

Number of peaks found: 24 Corr. Area 1: 1,025.5
 Noise: 0.4

Peak table for sample 11 : Next214P2_Nguyen

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	197	124.83	961.3	
3	207	63.49	465.7	
4	213	158.32	1,128.3	
5	242	40.55	253.7	
6	254	32.24	192.6	
7	273	27.27	151.5	
8	319	37.77	179.2	
9	332	19.48	88.9	
10	346	26.03	113.9	
11	359	29.58	124.9	
12	384	56.92	224.9	
13	623	24.06	58.5	
14	682	24.18	53.7	
15	727	23.15	48.2	
16	966	14.77	23.2	
17	1,374	12.67	14.0	
18	1,555	12.96	12.6	
19	1,744	17.83	15.5	
20	1,932	10.06	7.9	
21	2,796	5.48	3.0	
22	4,638	7.64	2.5	
23	5,175	8.58	2.5	
24	5,788	10.06	2.6	
25	6,746	4.57	1.0	
26	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

... Region table for sample 11 : Next214P2_Nguyen

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
151	8,384	1,025.4	96	1,028	100.0	1,320.87	5,461.3	■

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Gel Image

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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		9/22/2020 5:12:14 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-09-22\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-22_001.xad)		Instrument	Run		9/22/2020 4:30:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		9/22/2020 4:30:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/22/2020 4:30:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/22/2020 4:30:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/22/2020 4:30:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/22/2020 4:30:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/22/2020 4:30:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB