

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...nalyzer\2100 expert\data\2023-11-30\N993P_GBS_Libraries.xad

Created: 11/30/2023 1:16:13 PM
Modified: 11/30/2023 2:22:54 PM

Electrophoresis File Run Summary

Instrument Information:

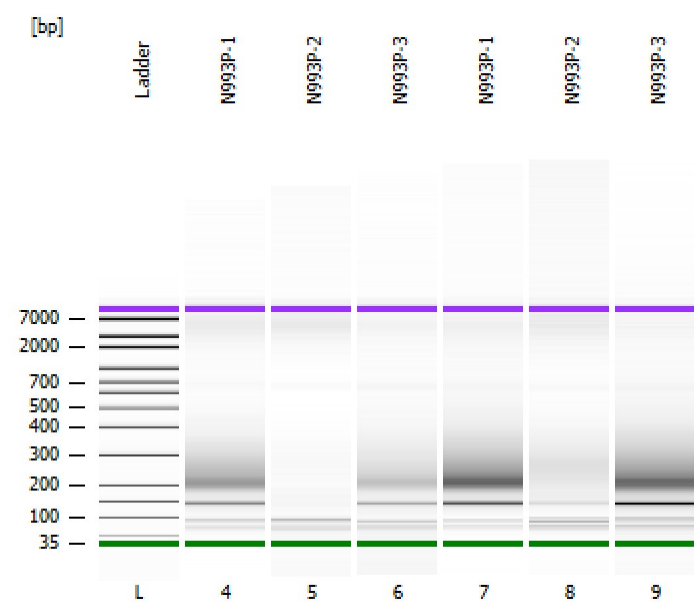
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:

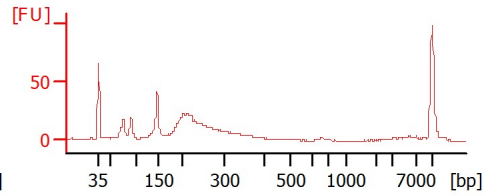
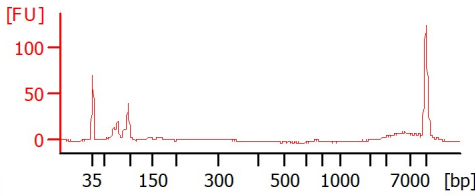
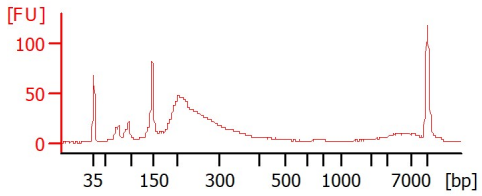
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



N993P-1

N993P-2

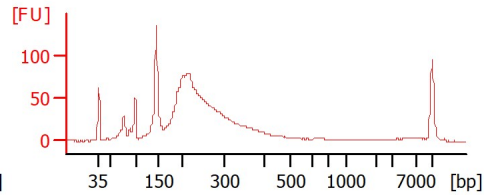
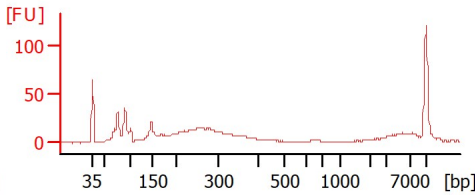
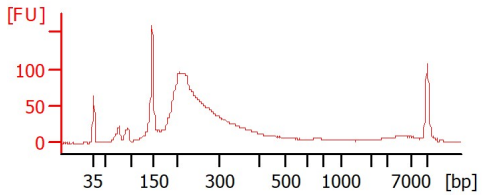
N993P-3



N993P-1

N993P-2

N993P-3



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
N993P-1		<input type="checkbox"/>	✓			
N993P-2		<input type="checkbox"/>	✓			
N993P-3		<input type="checkbox"/>	✓			
N993P-1		<input type="checkbox"/>	✓			
N993P-2		<input type="checkbox"/>	✓			
N993P-3		<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

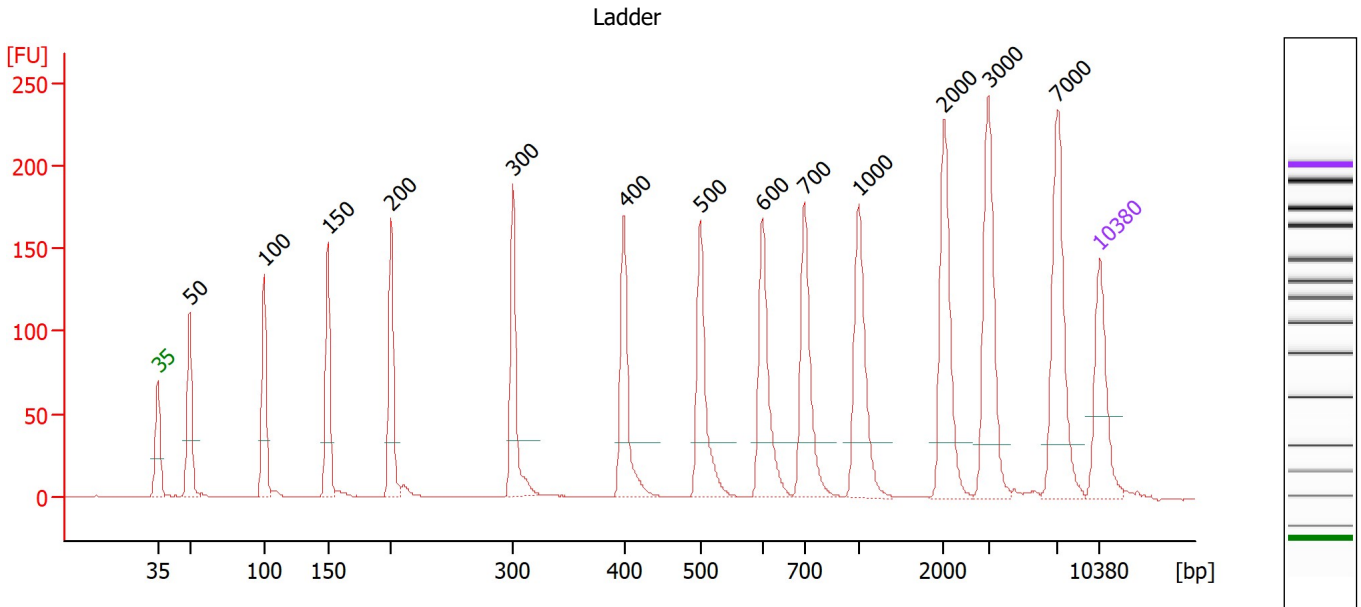
Ladder

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

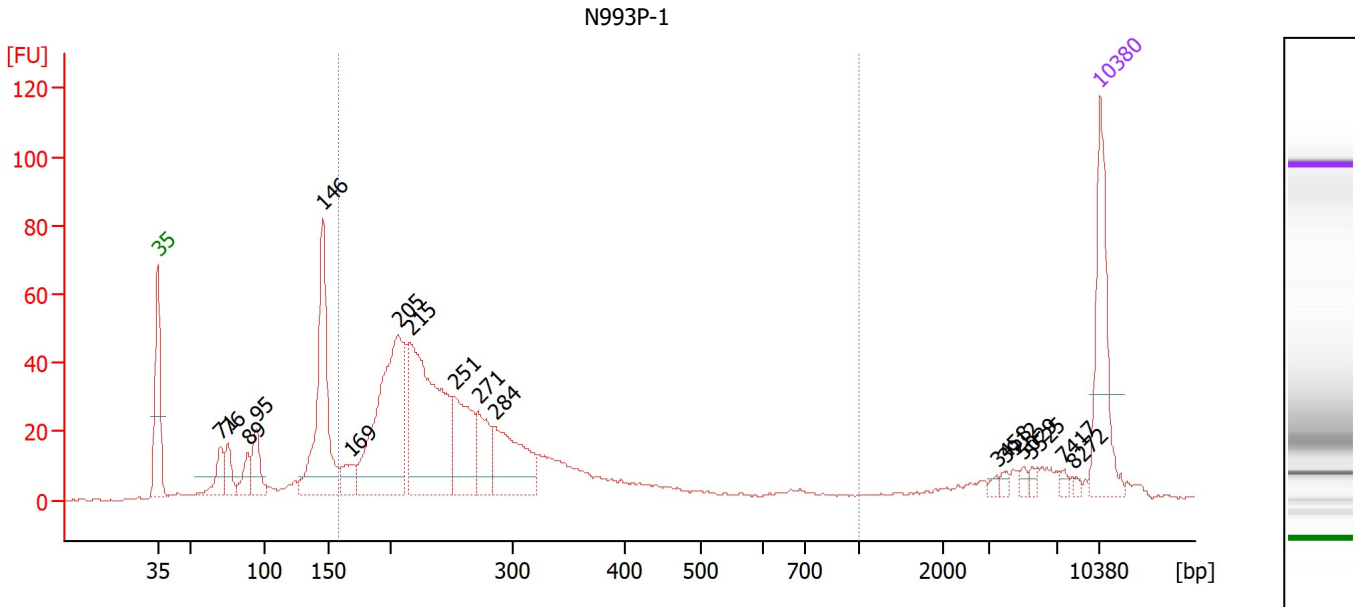
Peak table for Ladder

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 4 : N993P-1

Number of peaks found: 17 Corr. Area 1: 706.1
 Noise: 0.4

Peak table for sample 4 : N993P-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	71	31.50	674.1	
3	76	28.15	564.1	
4	89	24.28	413.1	
5	95	38.50	615.2	
6	146	187.17	1,942.8	
7	169	23.54	211.7	
8	205	234.28	1,727.7	
9	215	249.38	1,753.6	
10	251	87.46	527.1	
11	271	46.34	258.7	
12	284	94.21	501.9	
13	3,458	3.07	1.3	
14	3,912	3.55	1.4	
15	5,029	4.12	1.2	
16	5,525	4.25	1.2	
17	7,417	3.79	0.8	
18	8,272	2.54	0.5	
19	10,380	75.00	10.9	Upper Marker

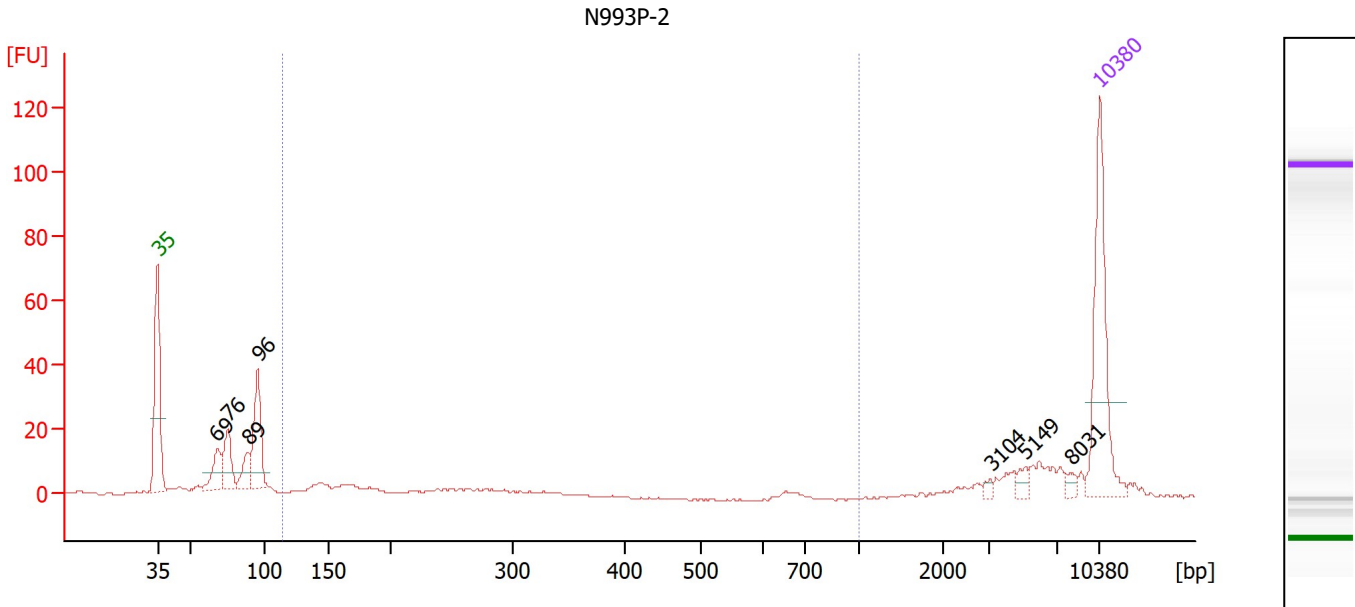
Region table for sample 4 : N993P-1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
158	1,000	706.1	69	270	36.3	925.61	5,779.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : N993P-2

Number of peaks found: 7 Corr. Area 1: 27.7
 Noise: 0.4

Peak table for sample 5 : N993P-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	28.84	636.8	
3	76	35.13	704.5	
4	89	22.08	376.2	
5	96	64.30	1,016.4	
6	3,104	2.92	1.4	
7	5,149	5.90	1.7	
8	8,031	4.15	0.8	
9	10,380	75.00	10.9	Upper Marker

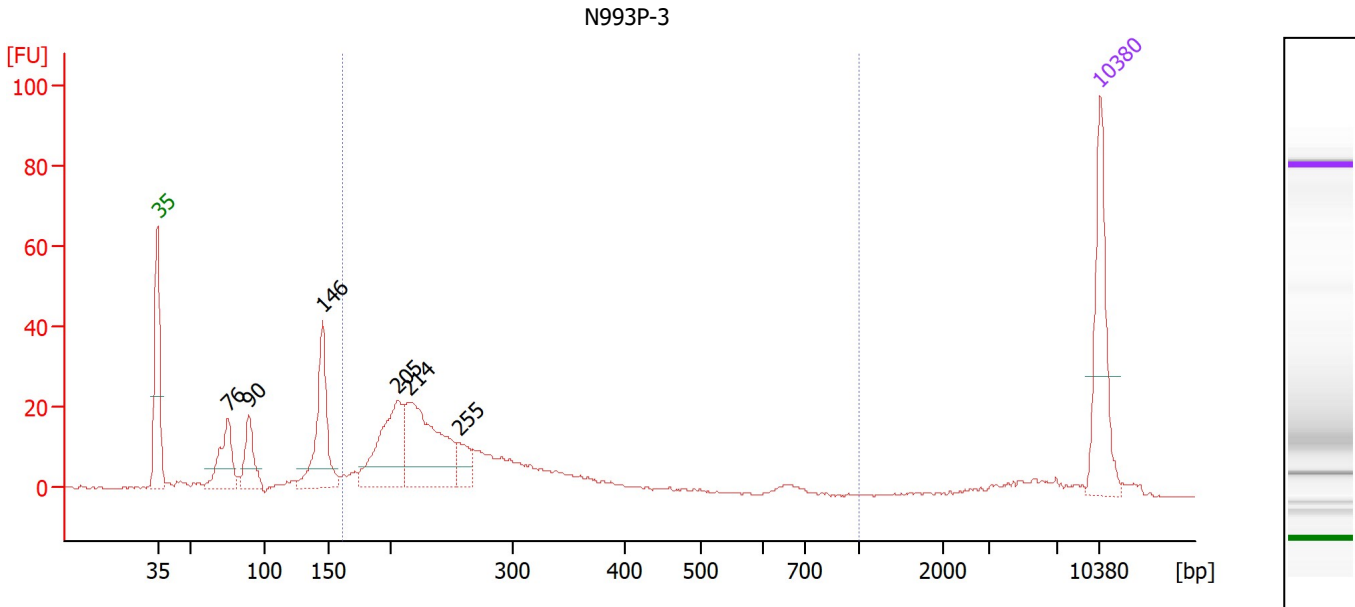
Region table for sample 5 : N993P-2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
114	1,000	27.7	14	201	35.3	37.14	315.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2023-11-30\N993P_GBS_Libraries.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : N993P-3

Number of peaks found: 6 Corr. Area 1: 288.6
 Noise: 0.4

Peak table for sample 6 : N993P-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	76	67.71	1,350.9	
3	90	50.49	852.8	
4	146	114.22	1,188.9	
5	205	114.26	844.2	
6	214	155.10	1,099.0	
7	255	25.27	150.1	
8	10,380	75.00	10.9	Upper Marker

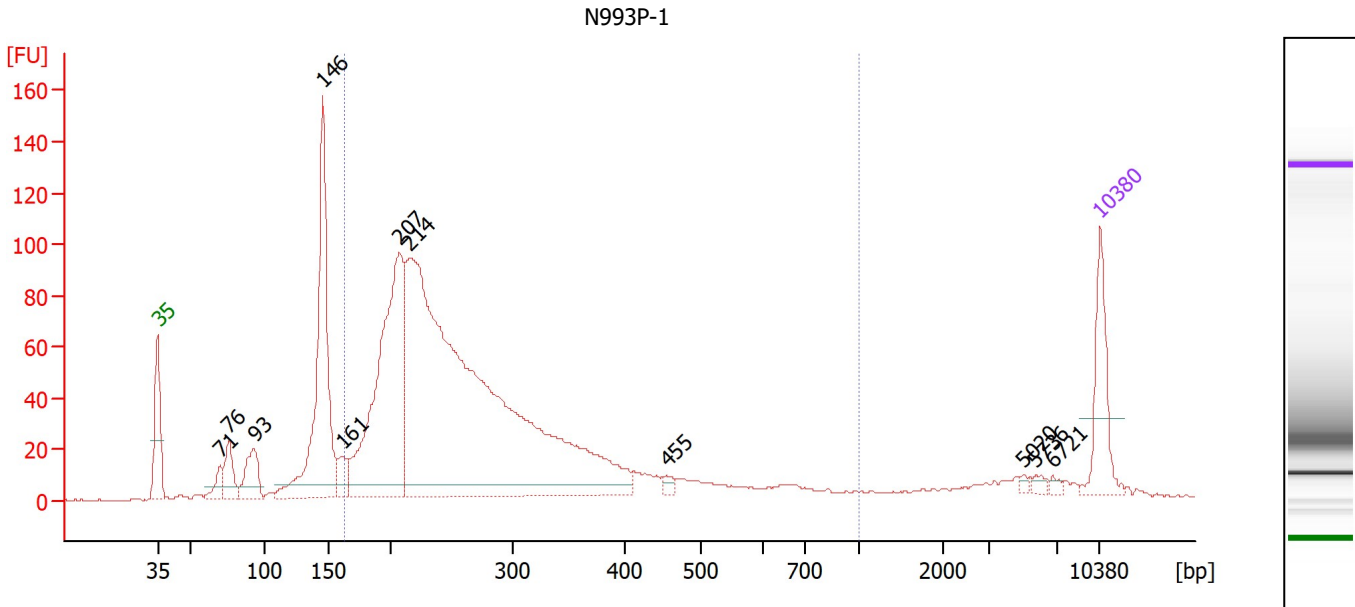
Region table for sample 6 : N993P-3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
162	1,000	288.6	64	260	30.6	447.74	2,826.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2023-11-30\N993P_GBS_Libraries.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : N993P-1

Number of peaks found: 11 Corr. Area 1: 1,417.7
 Noise: 0.4

Peak table for sample 7 : N993P-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	71	29.66	636.0	
3	76	56.83	1,127.2	
4	93	72.49	1,180.4	
5	146	426.91	4,436.6	
6	161	35.90	337.7	
7	207	521.99	3,828.4	
8	214	1,548.70	10,952.8	
9	455	9.50	31.6	
10	5,020	4.36	1.3	
11	5,736	7.32	1.9	
12	6,721	4.90	1.1	
13	10,380	75.00	10.9	Upper Marker

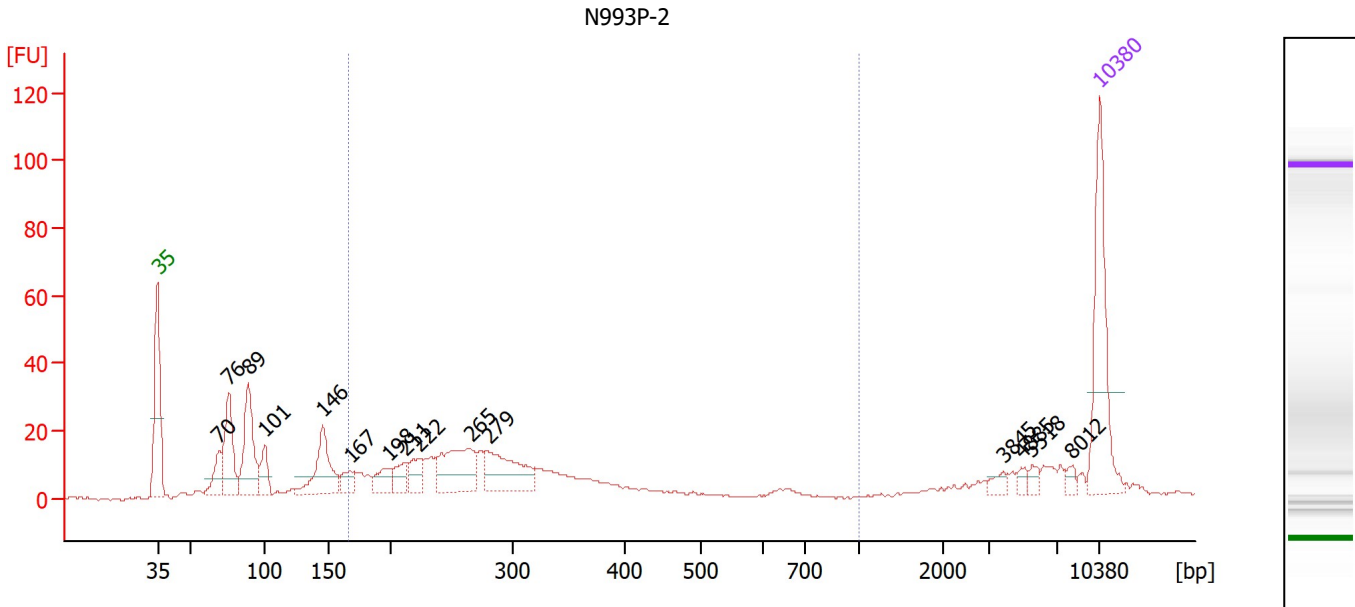
Region table for sample 7 : N993P-1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
164	1,000	1,417.7	76	283	39.1	2,087.78	12,677.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...nalyzer\2100 expert\data\2023-11-30\N993P_GBS_Libraries.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : N993P-2

Number of peaks found: 15 Corr. Area 1: 269.6
 Noise: 0.4

Peak table for sample 8 : N993P-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	70	28.70	625.7	
3	76	67.99	1,349.4	
4	89	83.18	1,408.4	
5	101	24.62	370.7	
6	146	64.44	669.4	
7	167	17.02	154.0	
8	198	21.49	164.7	
9	211	19.53	140.1	
10	222	21.32	145.4	
11	265	67.26	384.2	
12	279	62.41	338.4	
13	3,845	6.37	2.5	
14	4,885	4.94	1.5	
15	5,518	5.29	1.5	
16	8,012	4.82	0.9	
17	10,380	75.00	10.9	Upper Marker

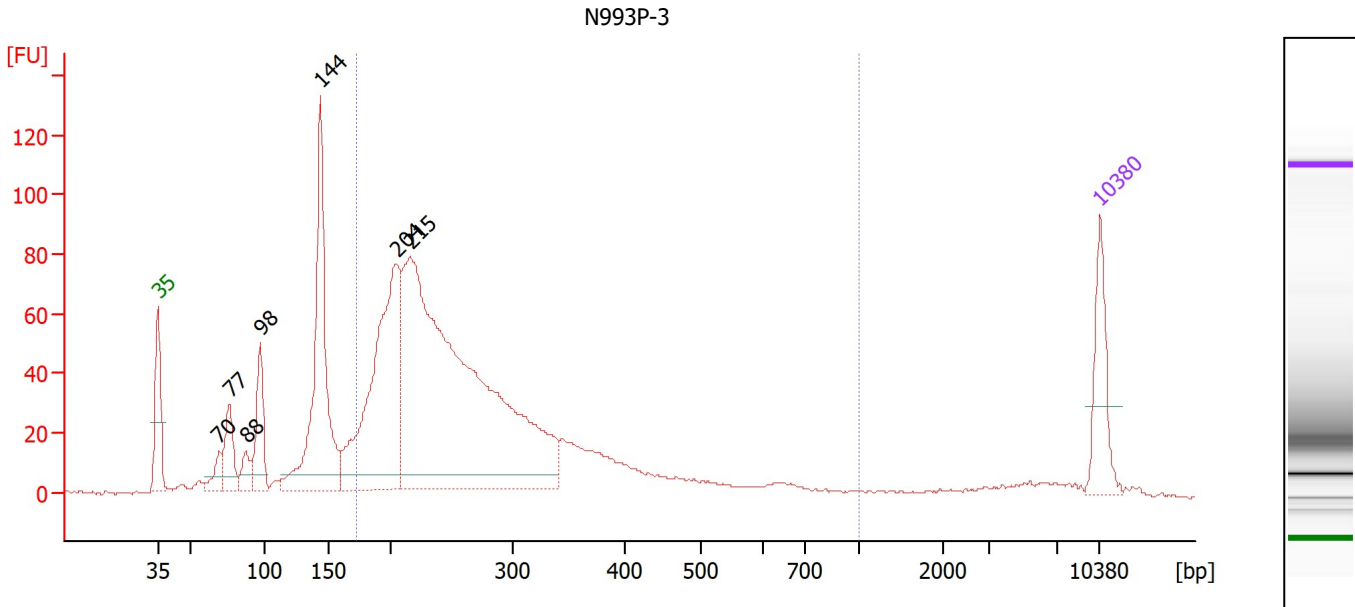
Region table for sample 8 : N993P-2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
167	1,000	269.6	51	278	27.4	356.22	2,106.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2023-11-30\N993P_GBS_Libraries.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : N993P-3

Number of peaks found: 7 Corr. Area 1: 1,142.1
 Noise: 0.4

Peak table for sample 9 : N993P-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	70	34.41	744.9	
3	77	81.57	1,607.0	
4	88	37.54	649.7	
5	98	107.84	1,673.3	
6	144	416.61	4,374.9	
7	204	493.15	3,655.4	
8	215	1,227.54	8,630.9	
9	10,380	75.00	10.9	Upper Marker

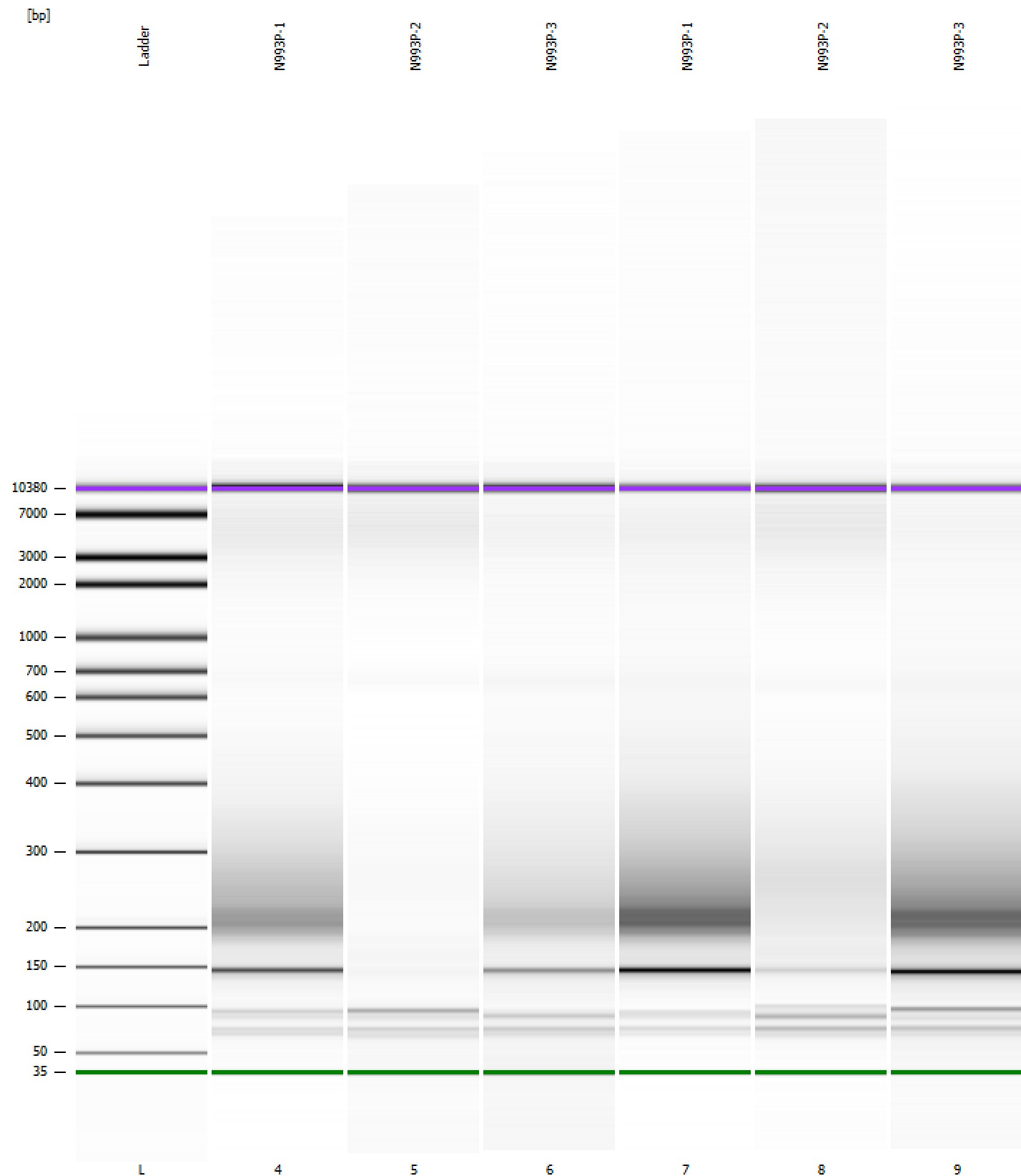
Region table for sample 9 : N993P-3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
172	1,000	1,142.1	72	277	36.6	1,849.17	11,310.6	Blue

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Gel Image

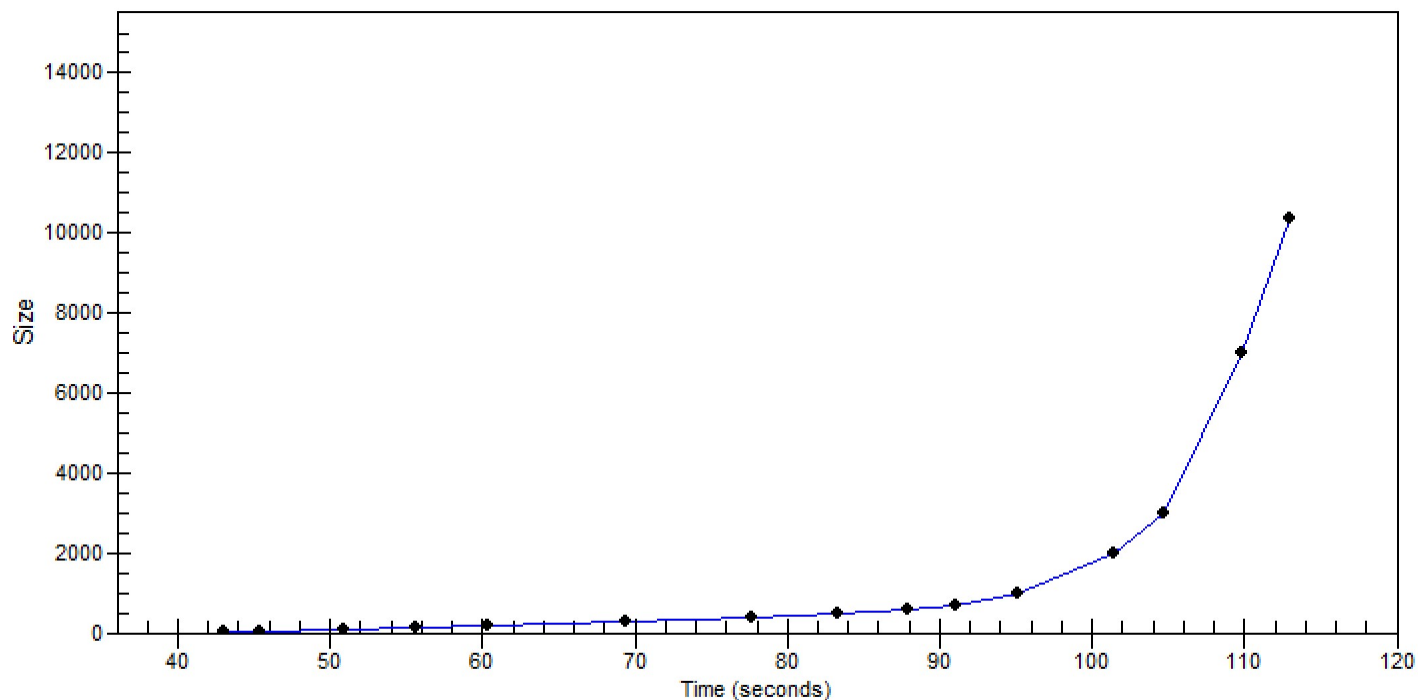


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Curves

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		11/30/2023 1:57:34 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-11-30\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-11-30_001.xad)		Instrument	Run		11/30/2023 1:16:19 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/30/2023 1:16:19 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/30/2023 1:16:19 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/30/2023 1:16:19 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/30/2023 1:16:19 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/30/2023 1:16:19 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/30/2023 1:16:19 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB