

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-07-19\QC1554.xad

Created: 7/19/2023 10:00:30 AM
Modified: 7/19/2023 11:21:02 AM

Electrophoresis File Run Summary

Instrument Information:

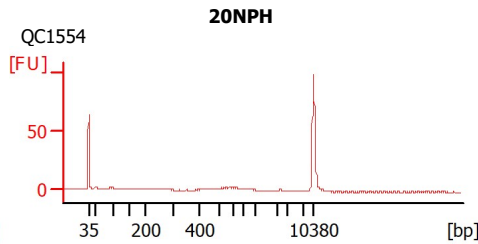
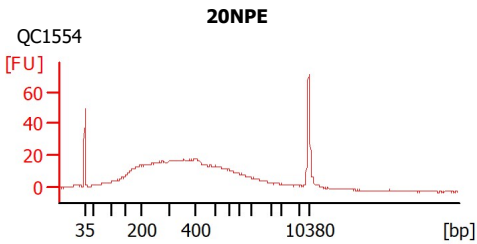
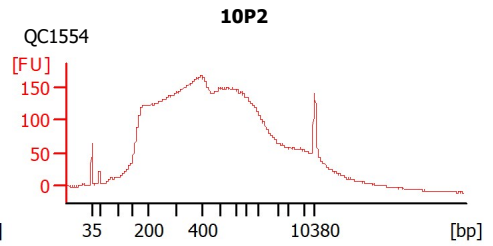
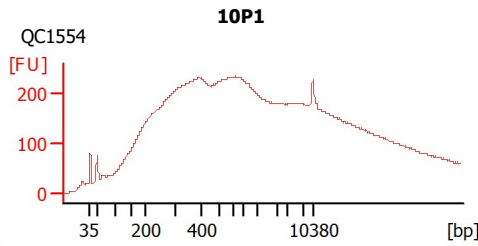
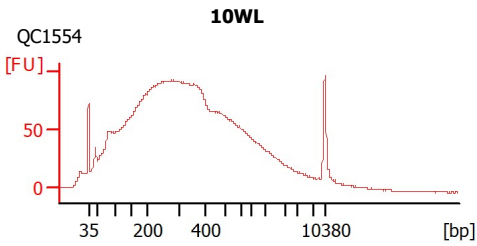
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
10WL	QC1554	<input type="checkbox"/>	✓			
10P1	QC1554	<input type="checkbox"/>	✓			
10P2	QC1554	<input type="checkbox"/>	✓			
20NPE	QC1554	<input type="checkbox"/>	✓			
20NPH	QC1554	<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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

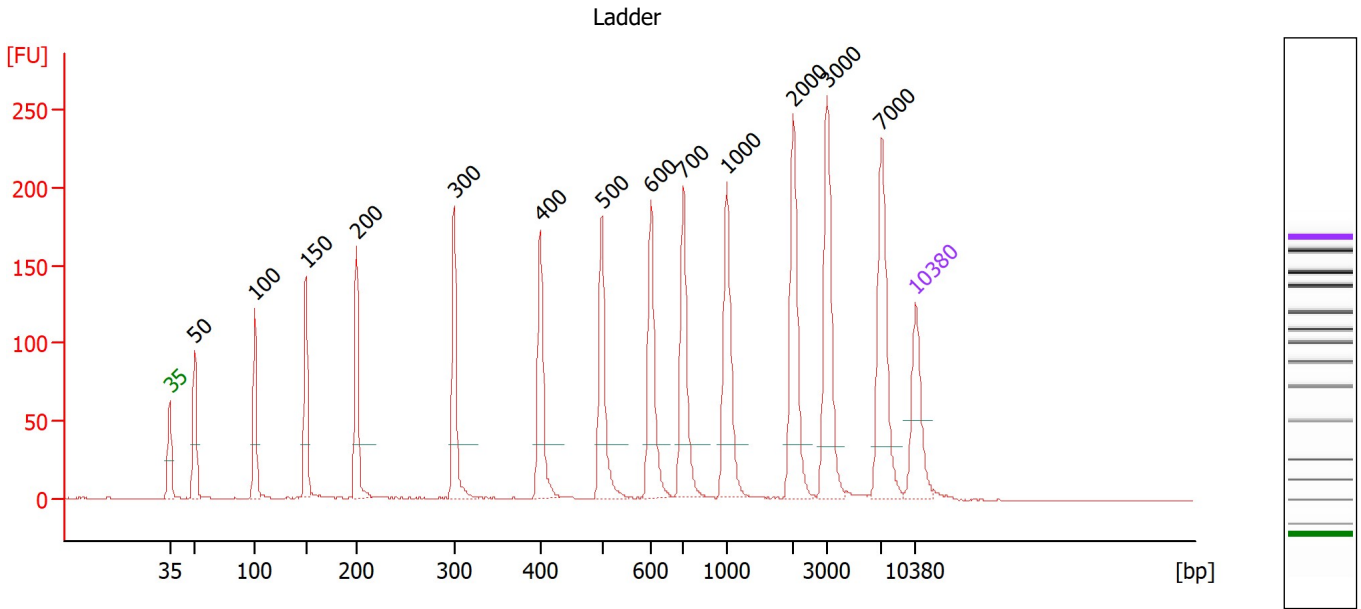
Ladder

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

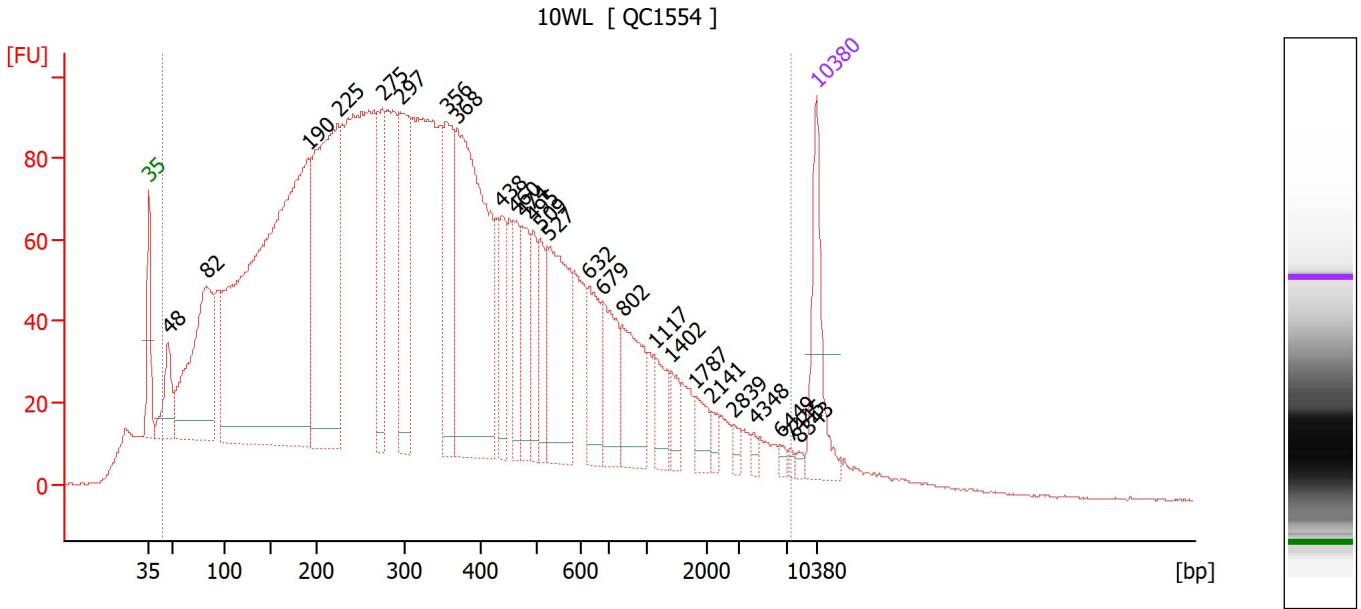
Peak table for Ladder

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 5 : 10WL

Number of peaks found: 26 Corr. Area 1: 5,119.7
 Noise: 0.2

Peak table for sample 5 : 10WL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	78.02	2,485.6	
3	82	317.60	5,875.3	
4	190	1,064.56	8,472.3	
5	225	458.31	3,089.2	
6	275	141.05	775.9	
7	297	180.24	920.2	
8	356	139.86	595.9	
9	368	413.74	1,703.3	
10	438	55.83	193.4	
11	460	53.99	177.9	
12	474	72.24	230.7	
13	495	53.92	165.1	
14	509	62.01	184.5	
15	527	158.95	456.6	
16	632	67.76	162.6	
17	679	74.61	166.4	
18	802	89.22	168.6	
19	1,117	36.89	50.1	
20	1,402	21.75	23.5	
21	1,787	23.10	19.6	
22	2,141	9.83	7.0	
23	2,839	8.11	4.3	
24	4,348	5.27	1.8	
25	6,449	4.47	1.0	
26	7,445	3.46	0.7	

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Electropherogram Summary Continued ...

... Peak table for sample 5 : 10WL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	8,343	3.86	0.7	
28	10,380	75.00	10.9	Upper Marker

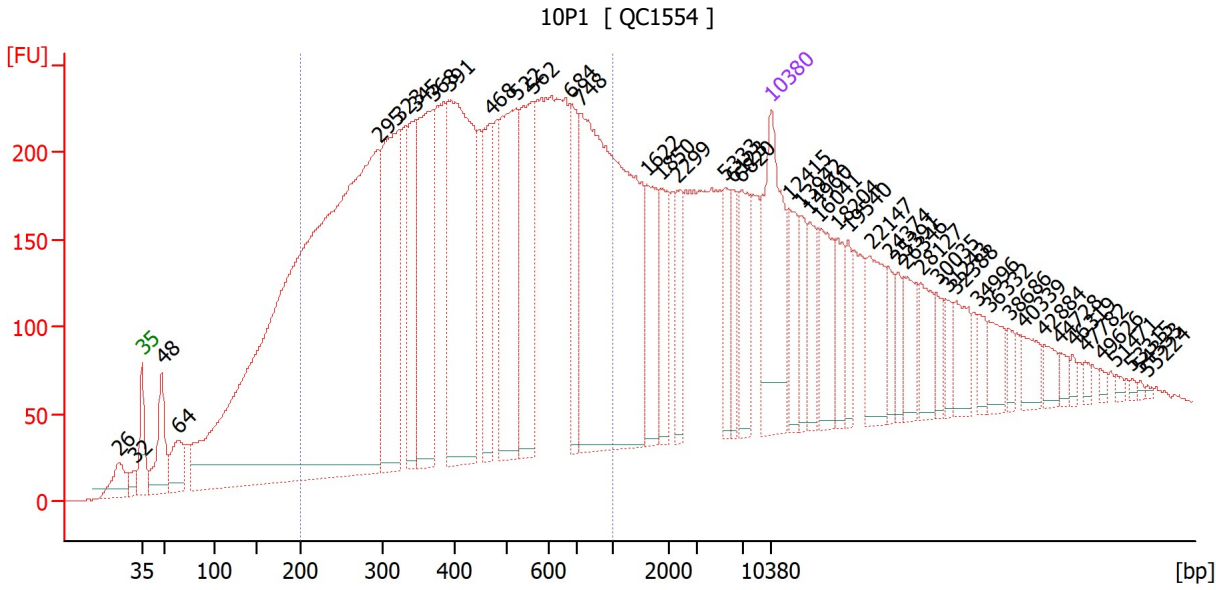
Region table for sample 5 : 10WL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
45	7,515	5,119.7	96	517	100.0	6,252.01	48,573.6	■

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 10P1

Number of peaks found: 47 Corr. Area 1: 8,056.0
 Noise: 0.5

Peak table for sample 6 : 10P1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	26	0.00	0.0	
2	32	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	48	59.56	1,866.8	
5	64	37.22	888.1	
6	295	963.82	4,946.9	
7	323	172.95	811.0	
8	345	71.82	315.3	
9	368	148.02	609.8	
10	391	242.95	941.0	
11	468	65.98	213.6	
12	522	132.52	384.8	
13	562	99.69	268.9	
14	684	57.92	128.2	
15	748	331.95	672.5	
16	1,622	49.05	45.8	
17	1,850	32.63	26.7	
18	2,299	29.56	19.5	
19	5,333	23.73	6.7	
20	6,123	20.33	5.0	
21	6,820	32.32	7.2	
22	10,380	75.00	10.9	Upper Marker
23	12,415	0.00	0.0	
24	13,942	0.00	0.0	
25	14,960	0.00	0.0	
26	16,041	0.00	0.0	

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Electropherogram Summary Continued ...

... Peak table for sample 6 : 10P1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	18,204	0.00	0.0	
28	19,540	0.00	0.0	
29	22,147	0.00	0.0	
30	24,374	0.00	0.0	
31	25,391	0.00	0.0	
32	26,346	0.00	0.0	
33	28,127	0.00	0.0	
34	30,035	0.00	0.0	
35	31,243	0.00	0.0	
36	32,388	0.00	0.0	
37	34,996	0.00	0.0	
38	36,332	0.00	0.0	
39	38,686	0.00	0.0	
40	40,339	0.00	0.0	
41	42,884	0.00	0.0	
42	44,728	0.00	0.0	
43	46,319	0.00	0.0	
44	47,782	0.00	0.0	
45	49,626	0.00	0.0	
46	51,471	0.00	0.0	
47	53,315	0.00	0.0	
48	54,333	0.00	0.0	
49	55,224	0.00	0.0	

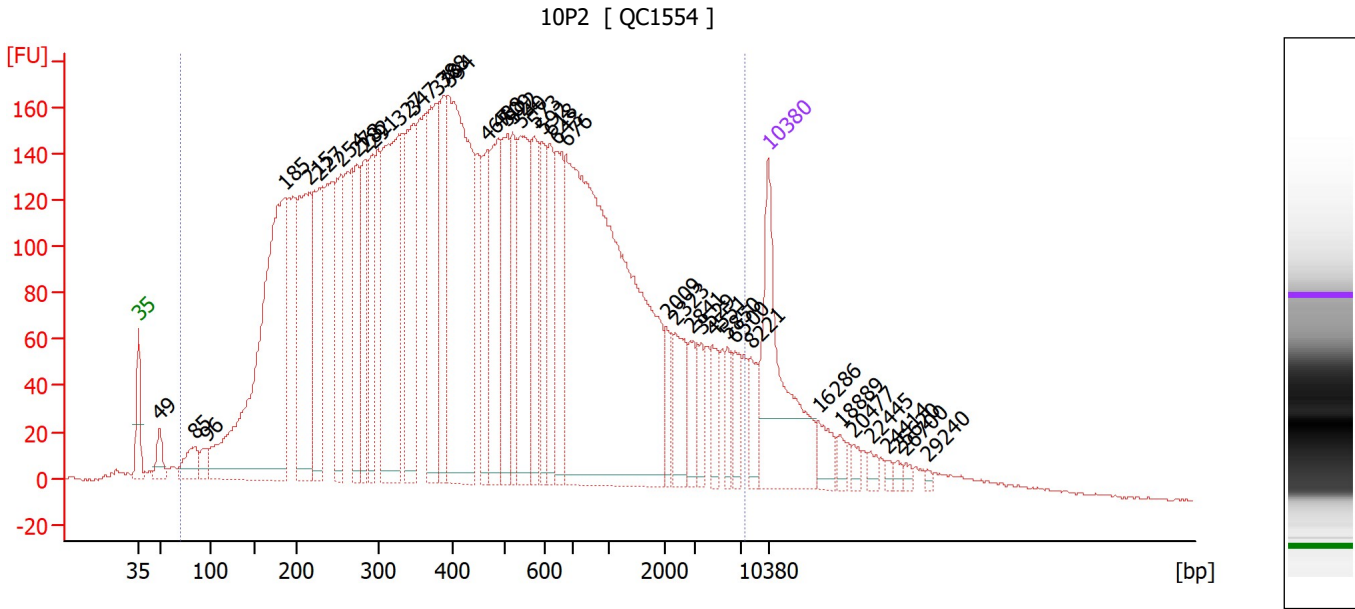
Region table for sample 6 : 10P1

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	8,056.0	57	459	41.1	2,307.23	9,547.3	

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 10P2

Number of peaks found: 41 Corr. Area 1: 8,356.1
 Noise: 0.7

Peak table for sample 7 : 10P2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	16.50	505.7	
3	85	24.20	433.4	
4	96	11.42	180.9	
5	185	319.97	2,624.8	
6	215	137.20	966.1	
7	227	89.08	595.1	
8	254	73.00	435.5	
9	273	58.86	327.0	
10	282	58.38	313.2	
11	291	58.33	303.2	
12	327	150.63	698.1	
13	347	90.18	394.2	
14	378	93.50	374.7	
15	388	59.54	232.3	
16	394	216.98	834.2	
17	467	50.84	165.0	
18	488	79.06	245.2	
19	509	54.84	163.3	
20	522	43.82	127.3	
21	540	78.55	220.6	
22	573	49.60	131.1	
23	592	41.77	106.8	
24	618	38.02	93.3	
25	643	54.82	129.2	
26	676	404.60	907.1	

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Electropherogram Summary Continued ...

... Peak table for sample 7 : 10P2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,009	12.54	9.5	
28	2,323	26.46	17.3	
29	2,841	13.89	7.4	
30	3,529	11.91	5.1	
31	4,551	14.12	4.7	
32	5,850	10.59	2.7	
33	6,500	12.69	3.0	
34	8,221	13.74	2.5	
35	10,380	75.00	10.9	Upper Marker
36	16,286	0.00	0.0	
37	18,889	0.00	0.0	
38	20,477	0.00	0.0	
39	22,445	0.00	0.0	
40	24,414	0.00	0.0	
41	25,620	0.00	0.0	
42	26,700	0.00	0.0	
43	29,240	0.00	0.0	

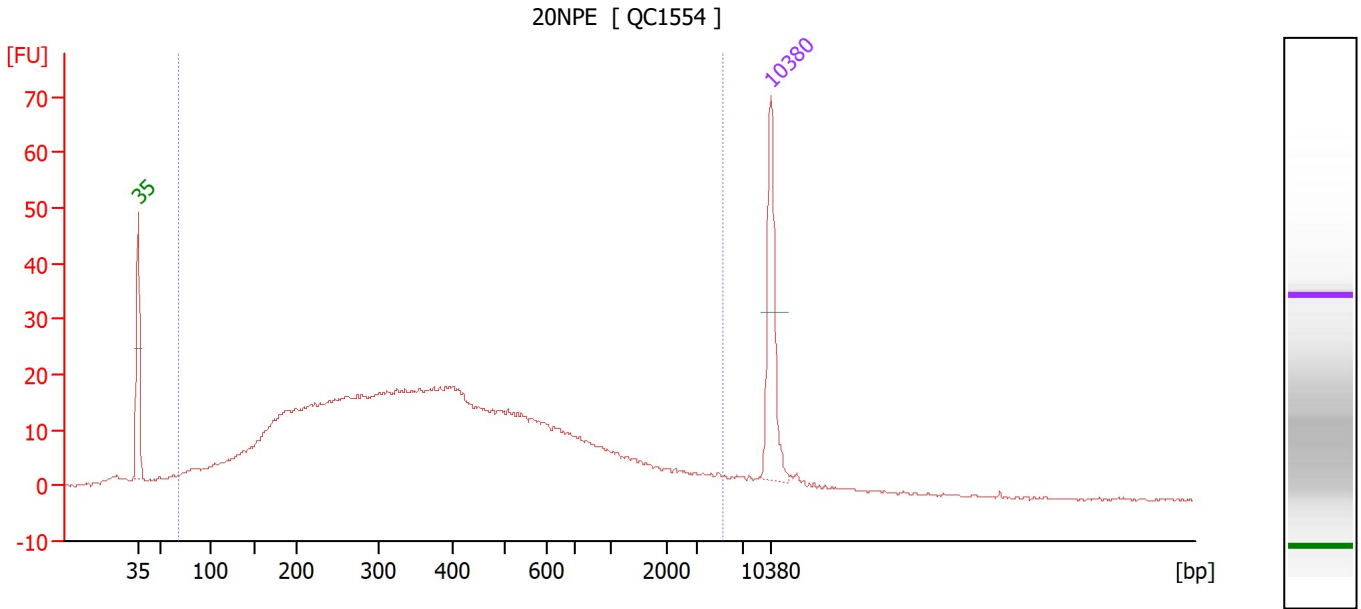
Region table for sample 7 : 10P2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
70	7,477	8,356.1	95	803	100.0	2,987.31	14,409.9	

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 20NPE

Number of peaks found: 0 Corr. Area 1: 871.2
 Noise: 0.2

Peak table for sample 8 : 20NPE

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

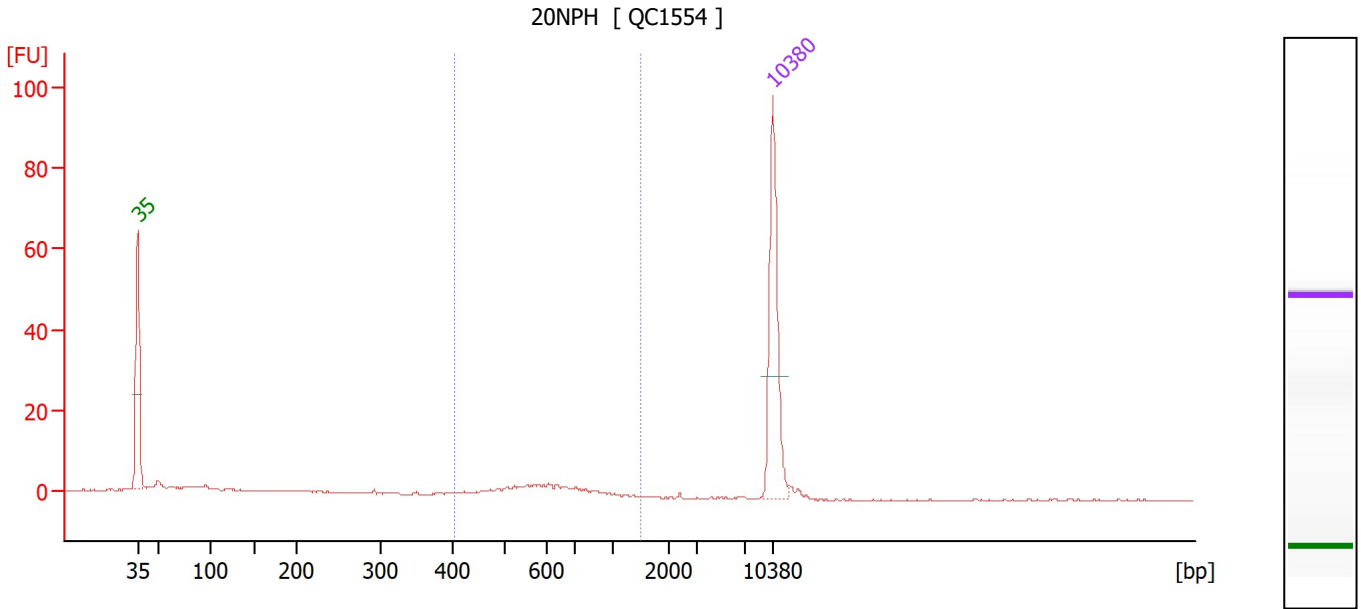
Region table for sample 8 : 20NPE

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
69	5,277	871.2	94	531	100.0	1,719.17	9,859.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 20NPH

Number of peaks found: 0 Corr. Area 1: 27.4
 Noise: 0.2

Peak table for sample 9 : 20NPH

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 9 : 20NPH

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
401	1,520	27.4	43	614	22.4	30.68	79.7	Blue

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Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-07-19\QC1554.xad

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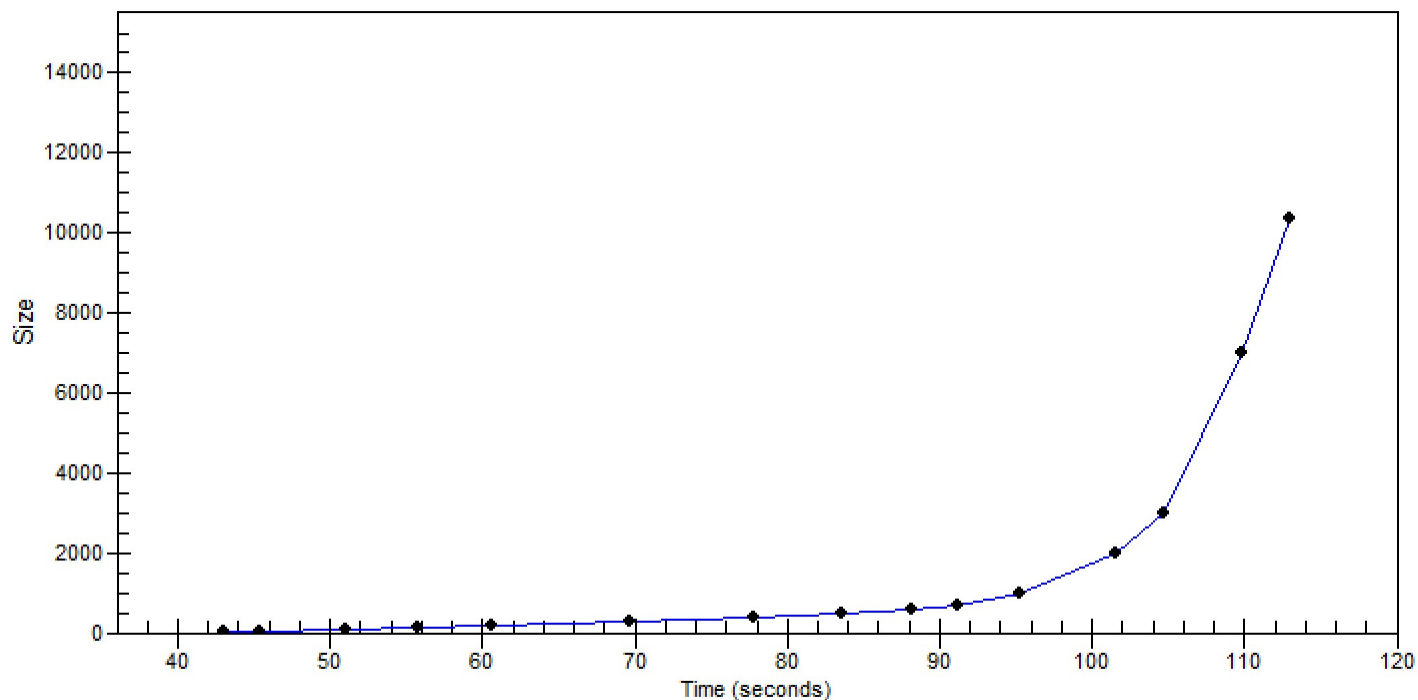
Gel Image

Assay Class: High Sensitivity DNA Assay
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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		7/19/2023 10:41:51 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-07-19\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-07-19_001.xad)		Instrument	Run		7/19/2023 10:00:36 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/19/2023 10:00:36 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/19/2023 10:00:36 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/19/2023 10:00:36 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/19/2023 10:00:36 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/19/2023 10:00:36 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/19/2023 10:00:36 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB