

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-03_001.xad

Created: 6/3/2025 9:05:43 AM
Modified: 6/3/2025 9:49:05 AM

Electrophoresis File Run Summary

Instrument Information:

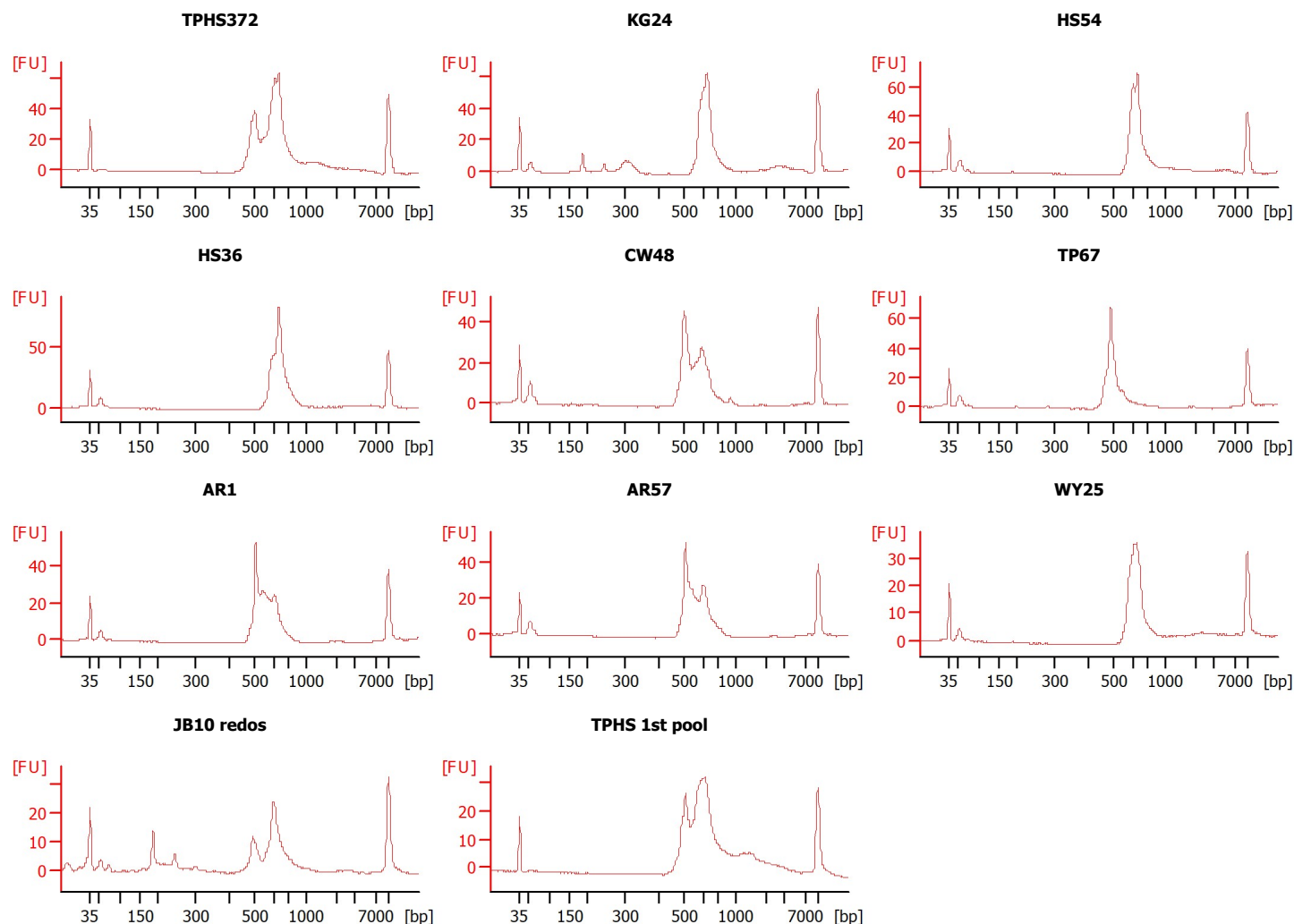
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
TPHS372		☐	✓			
KG24		☐	✓			
HS54		☐	✓			
HS36		☐	✓			
CW48		☐	✓			
TP67		☐	✓			
AR1		☐	✓			
AR57		☐	✓			
WY25		☐	✓			
JB10 redos		☐	✓			
TPHS 1st pool		☐	✓			
Ladder		☐	✓			

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

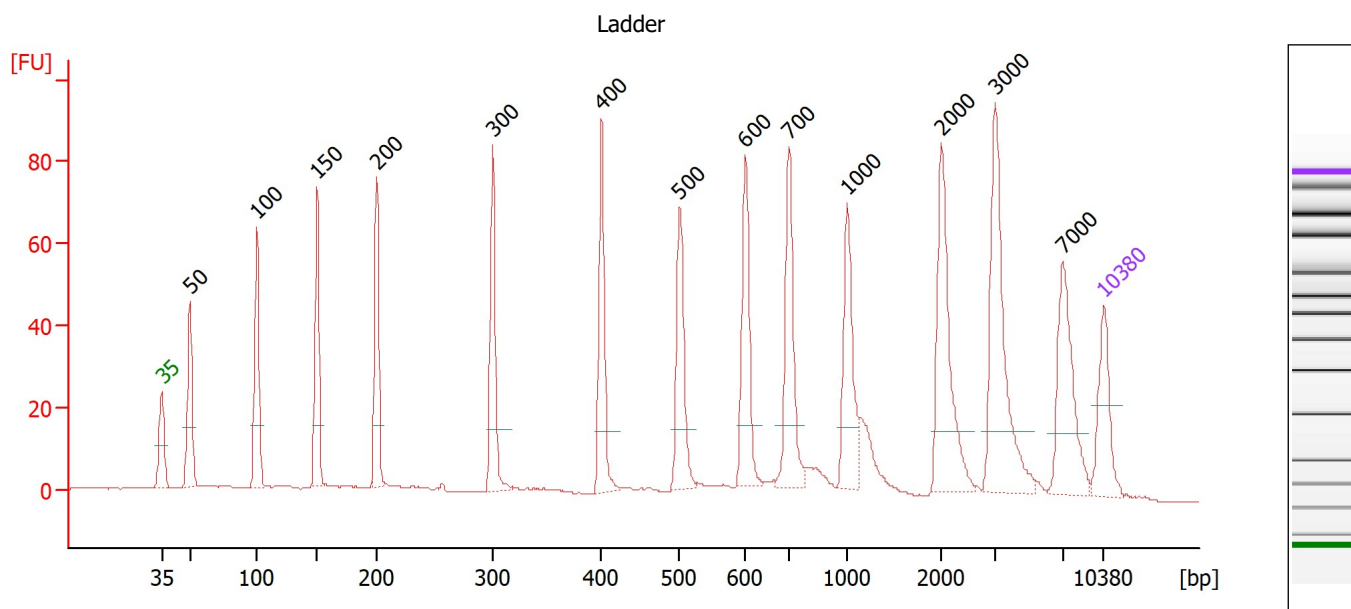
Ladder

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

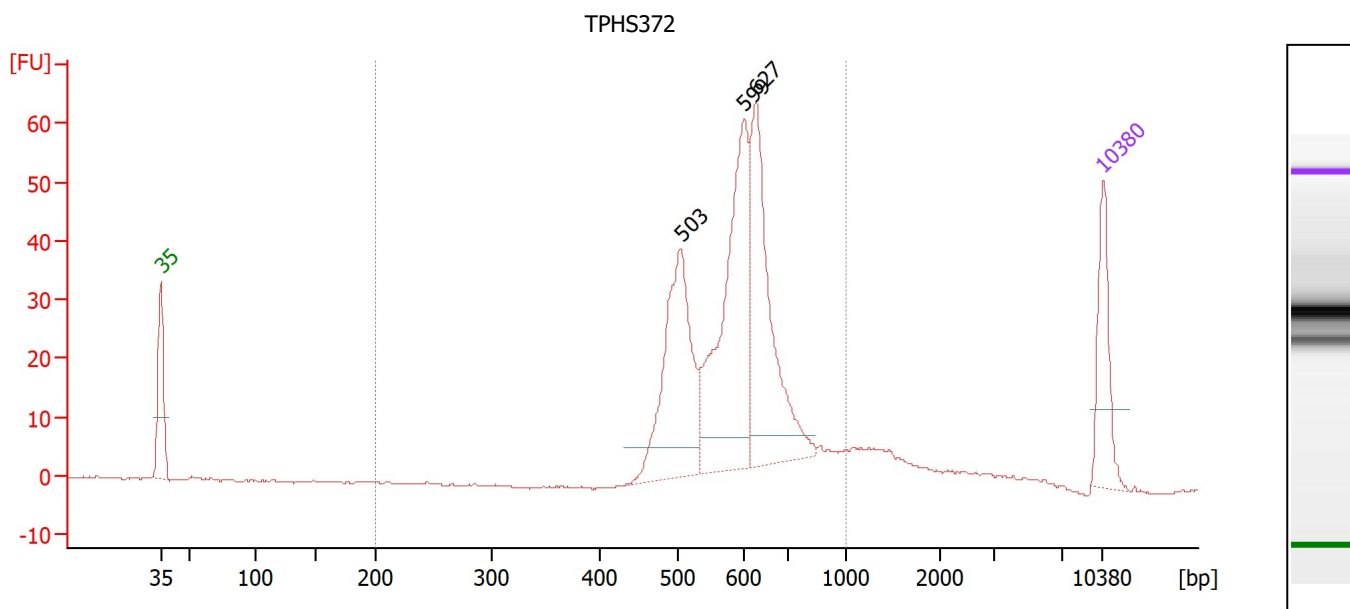
Peak table for Ladder

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 : TPHS372

Number of peaks found: 3 Corr. Area 1: 426.6
 Noise: 0.2

Peak table for sample 1 : TPHS372

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	503	264.26	795.8	
3	599	314.49	794.9	
4	627	264.88	640.3	
5	10,380	75.00	10.9	Upper Marker

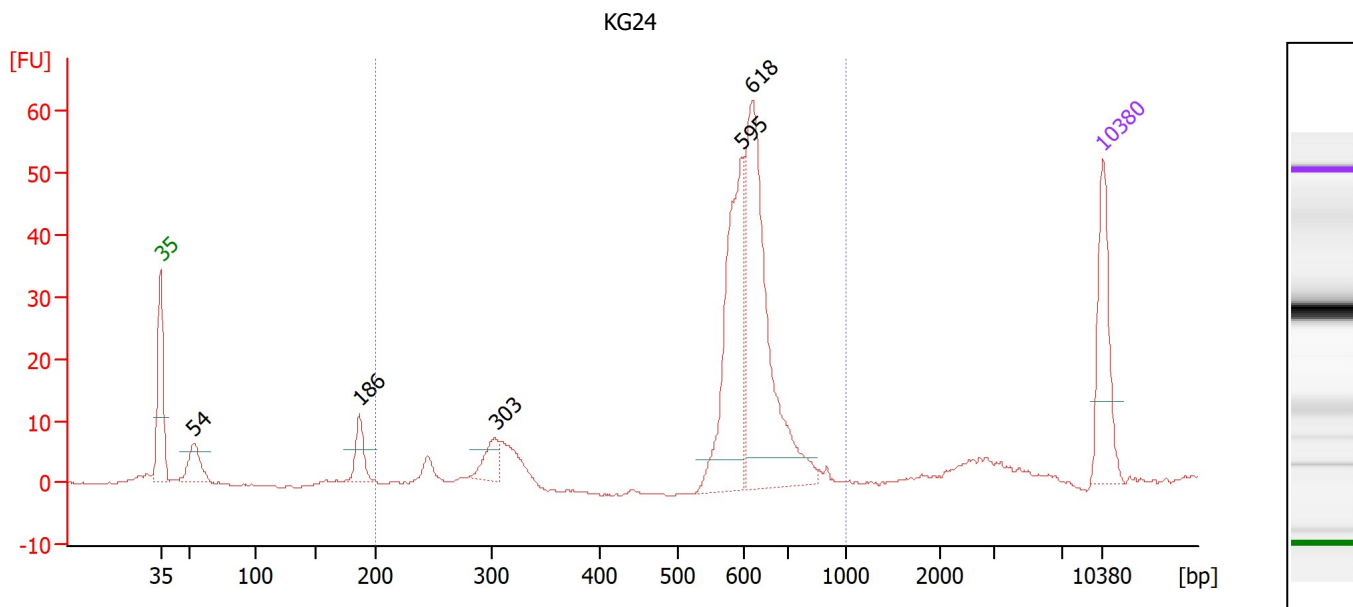
Region table for sample 1 : TPHS372

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	426.6	84	599	16.6	1,009.91	2,634.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : KG24

Number of peaks found: 5 Corr. Area 1: 285.8
Noise: 0.1

Peak table for sample 2 : KG24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	47.54	1,337.9	
3	186	37.39	304.0	
4	303	32.87	164.2	
5	595	200.63	511.2	Upper Marker
6	618	283.66	695.5	
7	10,380	75.00	10.9	

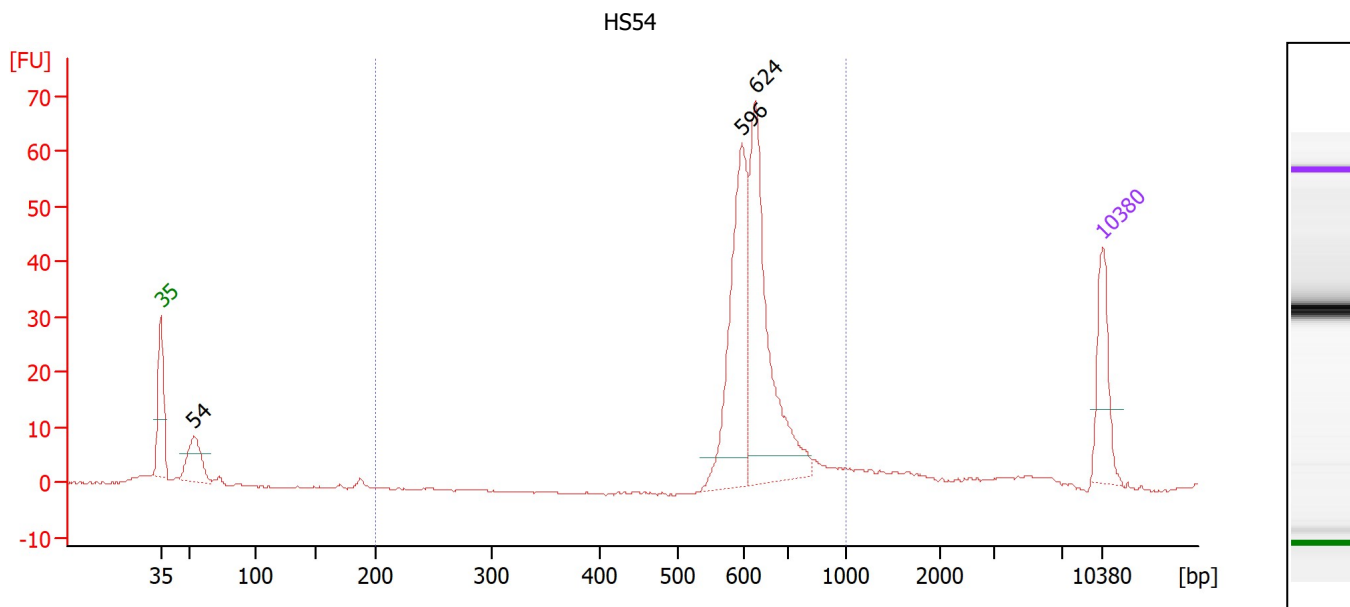
Region table for sample 2 : KG24

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	285.8	69	579	23.6	667.65	2,033.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : HS54

Number of peaks found: 3 Corr. Area 1: 244.0
 Noise: 0.2

Peak table for sample 3 : HS54

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	82.09	2,294.8	
3	596	273.34	695.0	
4	624	334.66	812.9	
5	10,380	75.00	10.9	Upper Marker

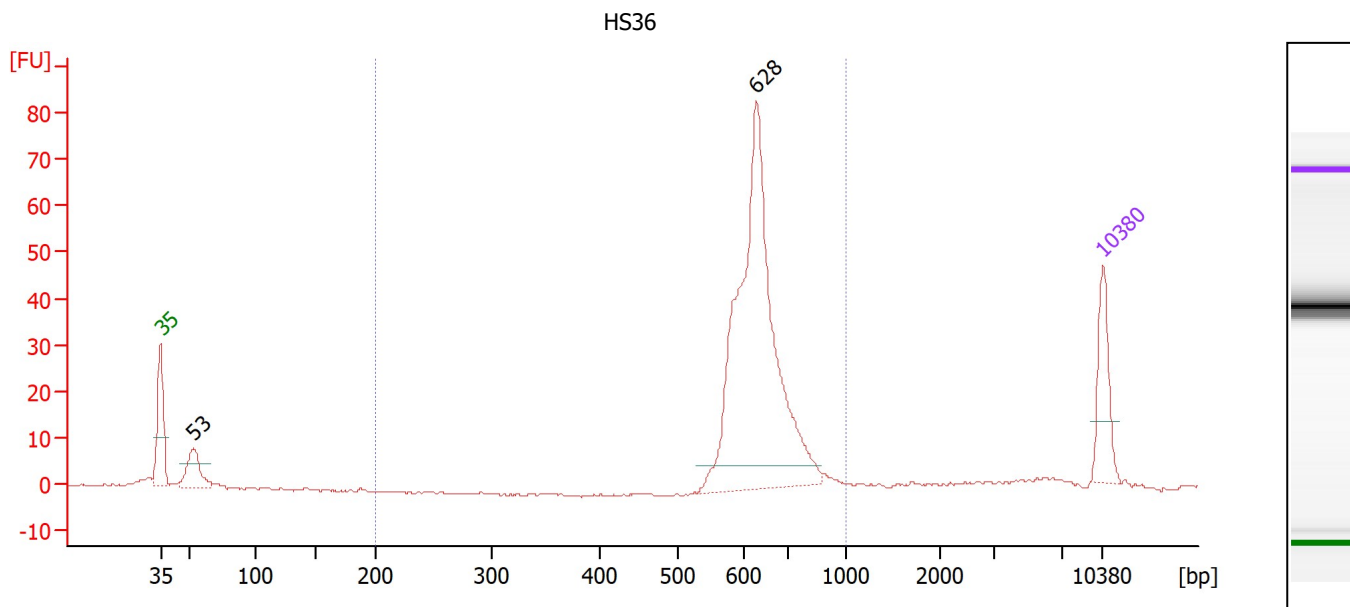
Region table for sample 3 : HS54

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	244.0	69	640	12.6	681.18	1,634.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : HS36

Number of peaks found: 2 Corr. Area 1: 275.5
Noise: 0.2

Peak table for sample 4 : HS36

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	78.56	2,225.6	
3	628	704.87	1,701.2	
4	10,380	75.00	10.9	Upper Marker

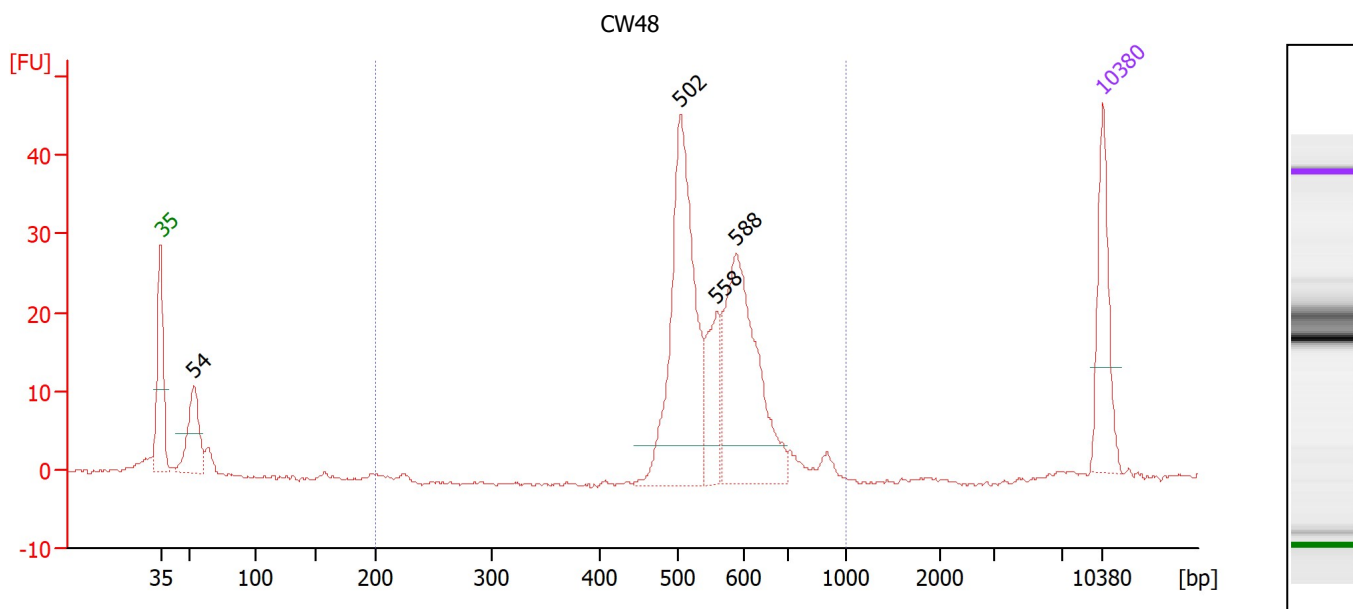
Region table for sample 4 : HS36

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	275.5	75	643	11.1	743.95	1,770.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : CW48

Number of peaks found: 4
Noise: 0.3
Corr. Area 1: 241.6

Peak table for sample 5 : CW48

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	87.82	2,464.3	
3	502	312.22	942.5	
4	558	72.50	197.0	
5	588	233.45	601.6	
6	10,380	75.00	10.9	Upper Marker

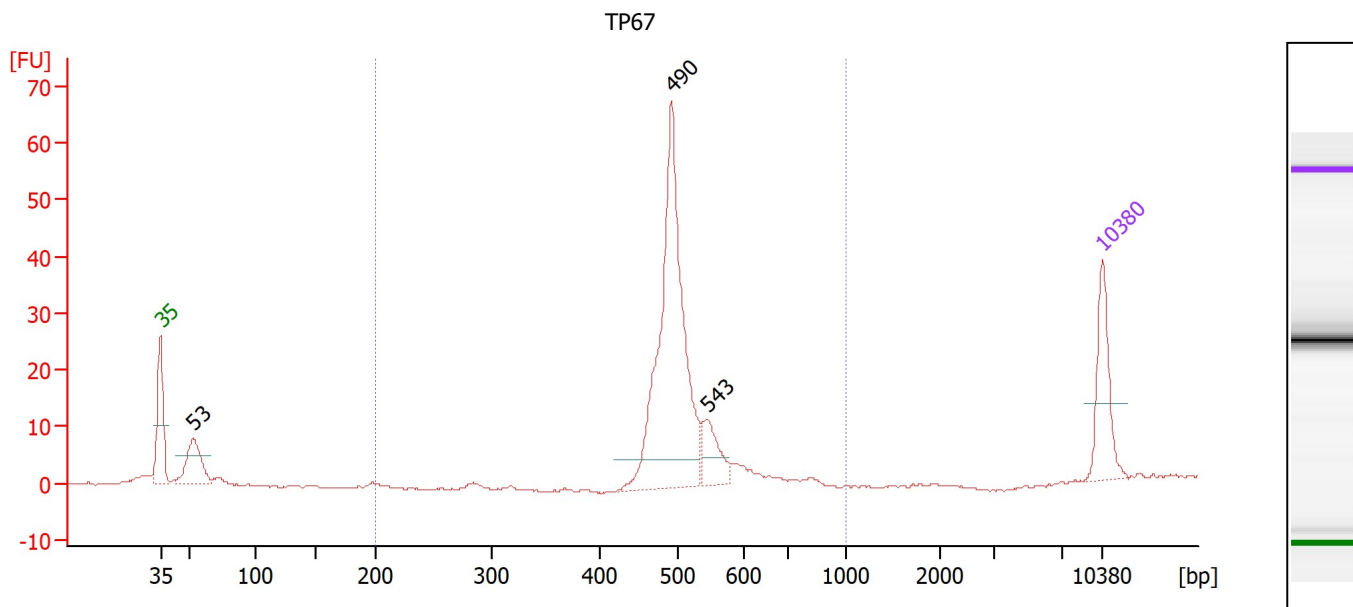
Region table for sample 5 : CW48

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	241.6	71	569	15.7	668.45	1,834.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : TP67

Number of peaks found: 3 Corr. Area 1: 197.6
Noise: 0.2

Peak table for sample 6 : TP67

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	94.19	2,677.4	
3	490	470.68	1,454.1	
4	543	55.12	153.8	
5	10,380	75.00	10.9	Upper Marker

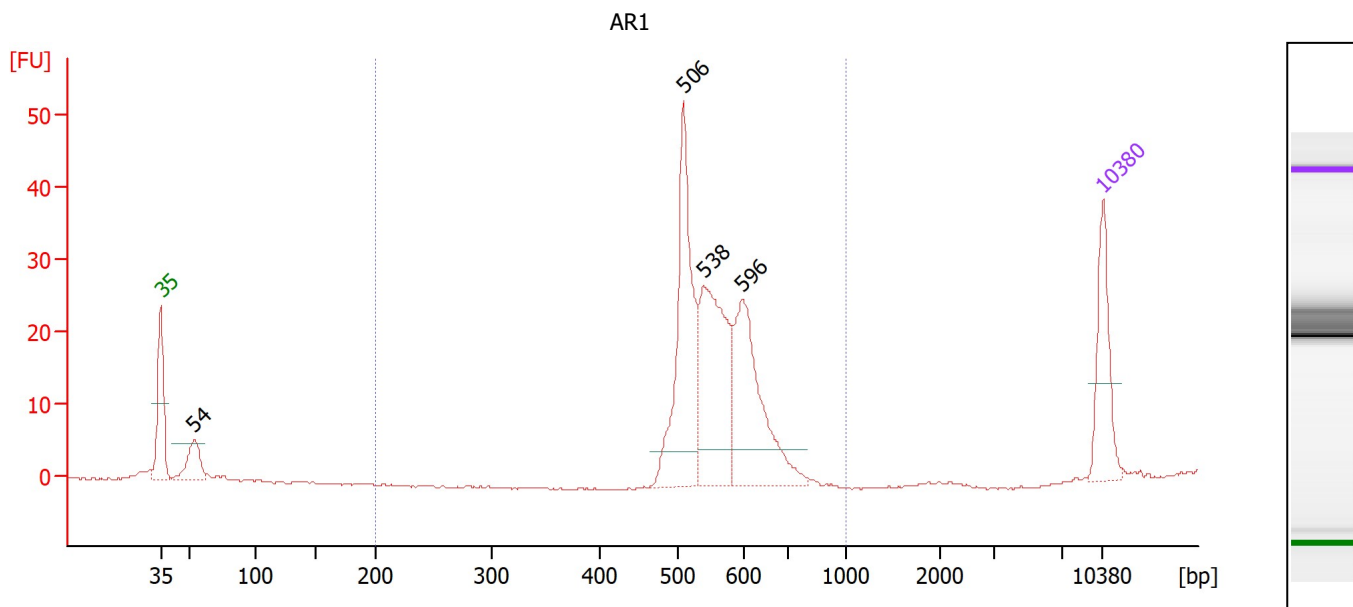
Region table for sample 6 : TP67

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	197.6	71	522	16.4	624.30	1,868.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : AR1

Number of peaks found: 4
Noise: 0.2
Corr. Area 1: 215.7

Peak table for sample 7 : AR1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	55.70	1,556.2	
3	506	244.35	731.2	
4	538	222.51	627.1	
5	596	192.58	489.2	
6	10,380	75.00	10.9	Upper Marker

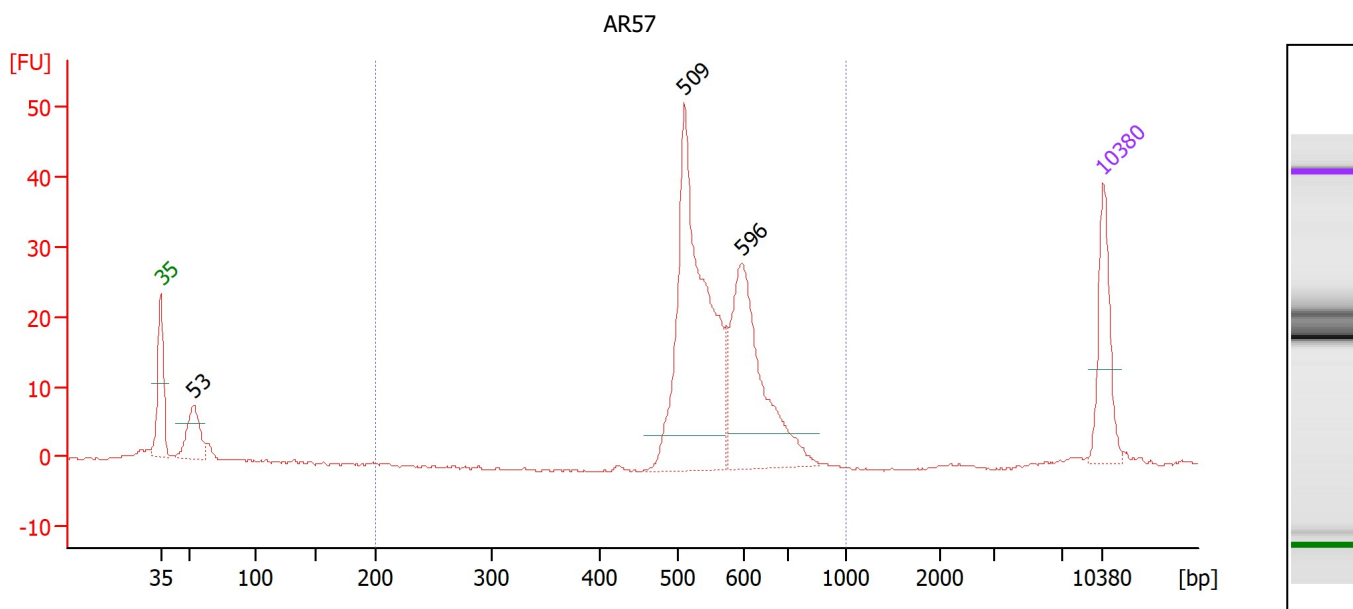
Region table for sample 7 : AR1

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	215.7	74	565	11.3	669.01	1,817.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : AR57

Number of peaks found: 3 Corr. Area 1: 221.6
Noise: 0.2

Peak table for sample 8 : AR57

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	73.50	2,091.8	
3	509	423.41	1,260.5	
4	596	245.81	624.7	
5	10,380	75.00	10.9	Upper Marker

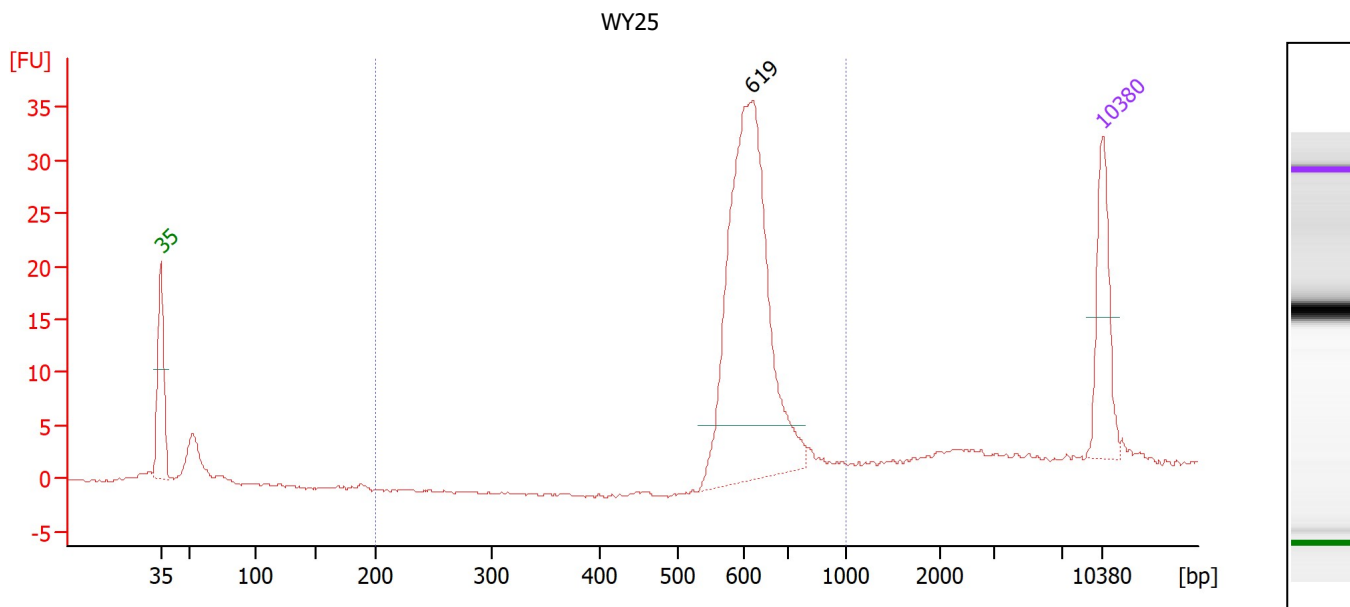
Region table for sample 8 : AR57

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	221.6	77	568	11.8	666.01	1,800.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : WY25

Number of peaks found: 1 Corr. Area 1: 149.2
Noise: 0.2

Peak table for sample 9 : WY25

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	619	477.78	1,170.1	
3	10,380	75.00	10.9	Upper Marker

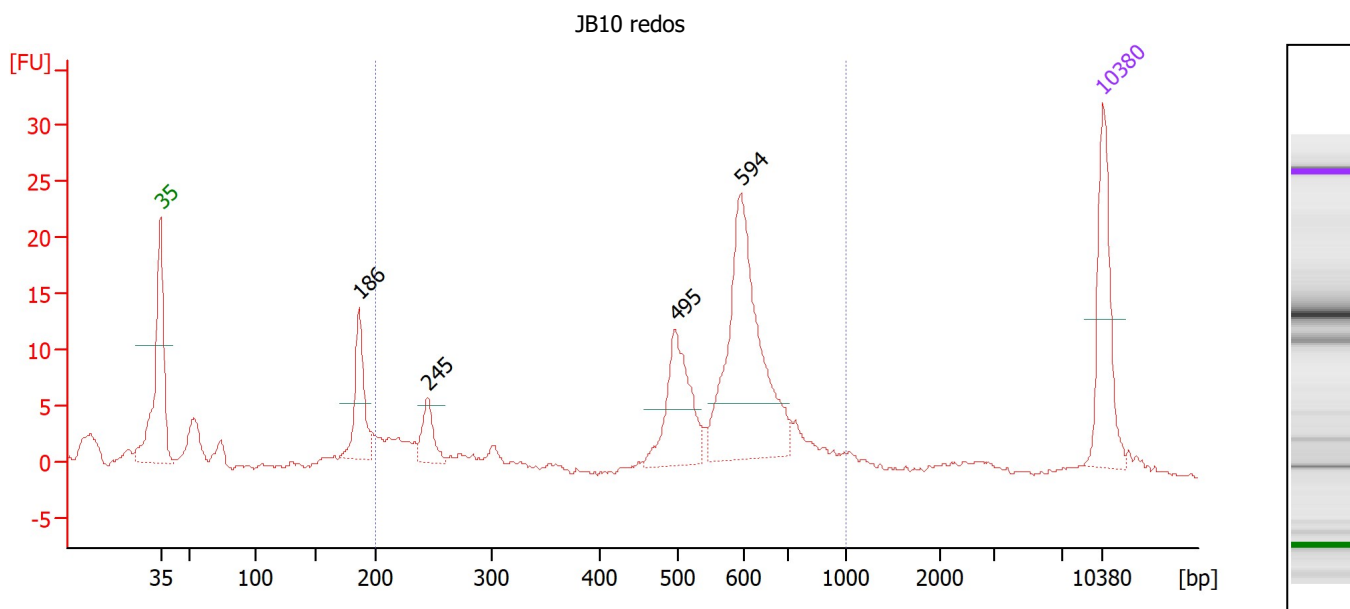
Region table for sample 9 : WY25

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	149.2	57	636	12.5	544.74	1,315.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : JB10 redos

Number of peaks found: 4 Corr. Area 1: 159.5
Noise: 0.2

Peak table for sample 10 : JB10 redos

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	186	75.66	617.3	
3	245	34.63	214.1	
4	495	97.89	299.3	
5	594	225.17	573.9	
6	10,380	75.00	10.9	Upper Marker

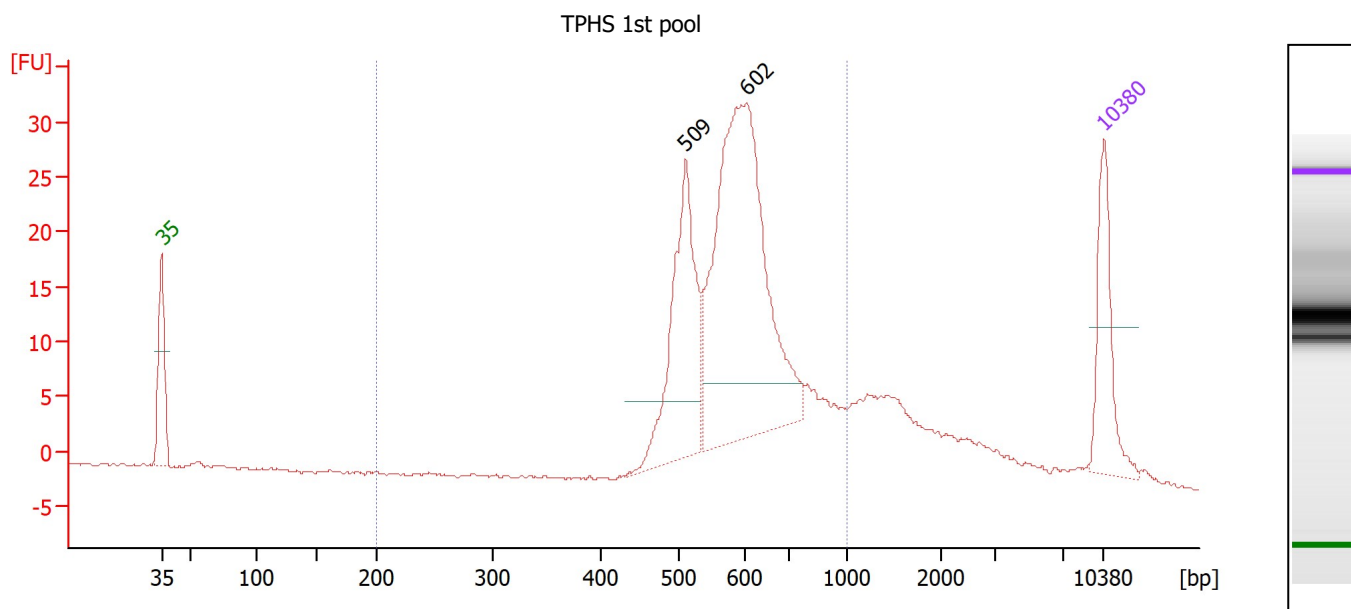
Region table for sample 10 : JB10 redos

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	159.5	67	547	29.5	574.66	1,970.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 11 : TPHS 1st pool

Number of peaks found: 2 Corr. Area 1: 262.2
Noise: 0.2

Peak table for sample 11 : TPHS 1st pool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	509	214.05	637.2	
3	602	455.99	1,147.2	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : TPHS 1st pool

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	262.2	78	609	18.0	881.55	2,266.3	Blue

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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		6/3/2025 9:47:05 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\2025-06-03\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-06-03_001.xad)		Instrument	Run		6/3/2025 9:05:50 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/3/2025 9:05:50 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/3/2025 9:05:50 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/3/2025 9:05:50 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/3/2025 9:05:50 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/3/2025 9:05:50 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/3/2025 9:05:50 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB