

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-07-03_001.xad

Created: 7/3/2025 2:03:34 PM
Modified: 7/3/2025 4:10:49 PM

Electrophoresis File Run Summary

Instrument Information:

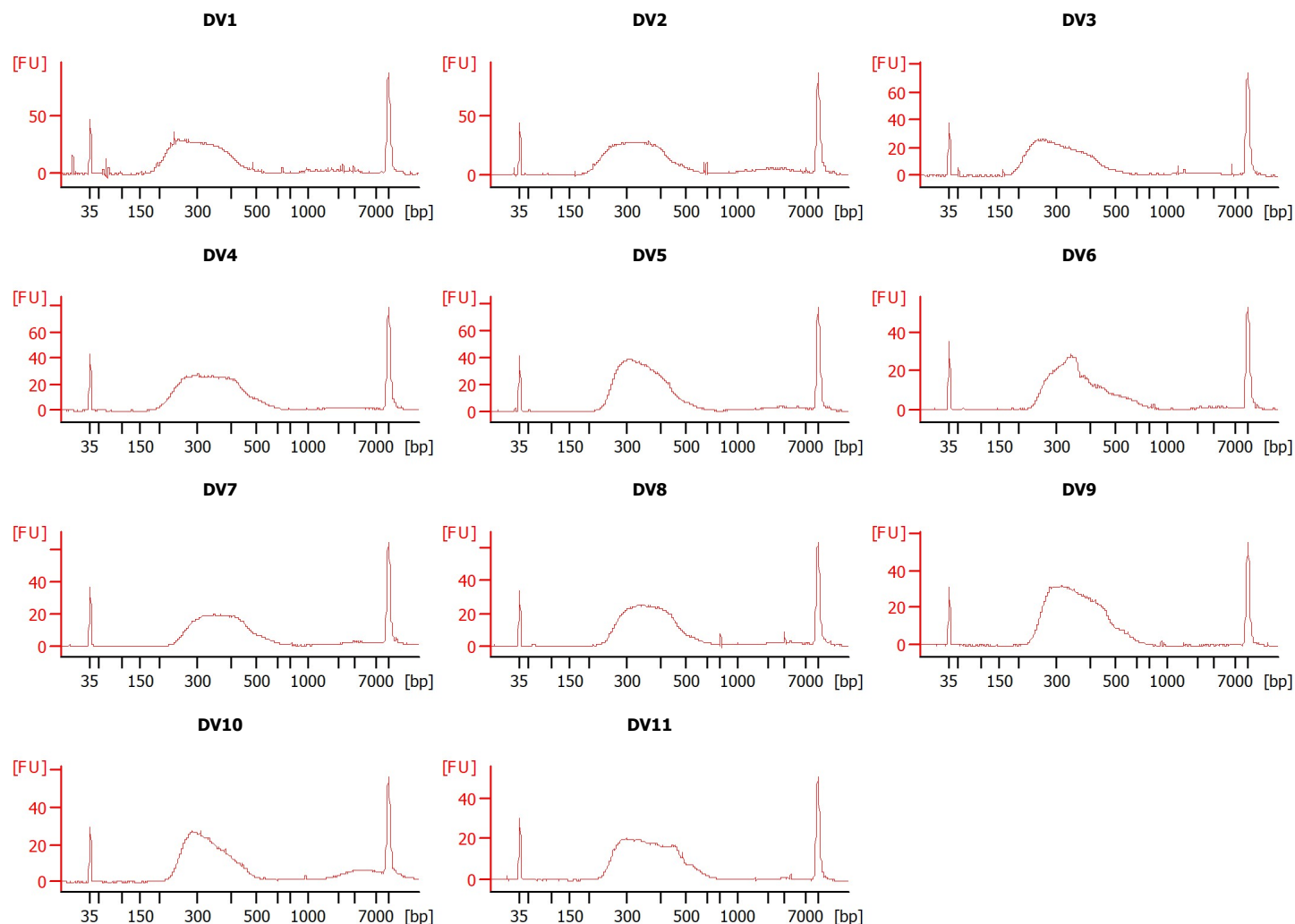
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
DV1		☐	✓			
DV2		☐	✓			
DV3		☐	✓			
DV4		☐	✓			
DV5		☐	✓			
DV6		☐	✓			
DV7		☐	✓			
DV8		☐	✓			
DV9		☐	✓			
DV10		☐	✓			
DV11		☐	✓			
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

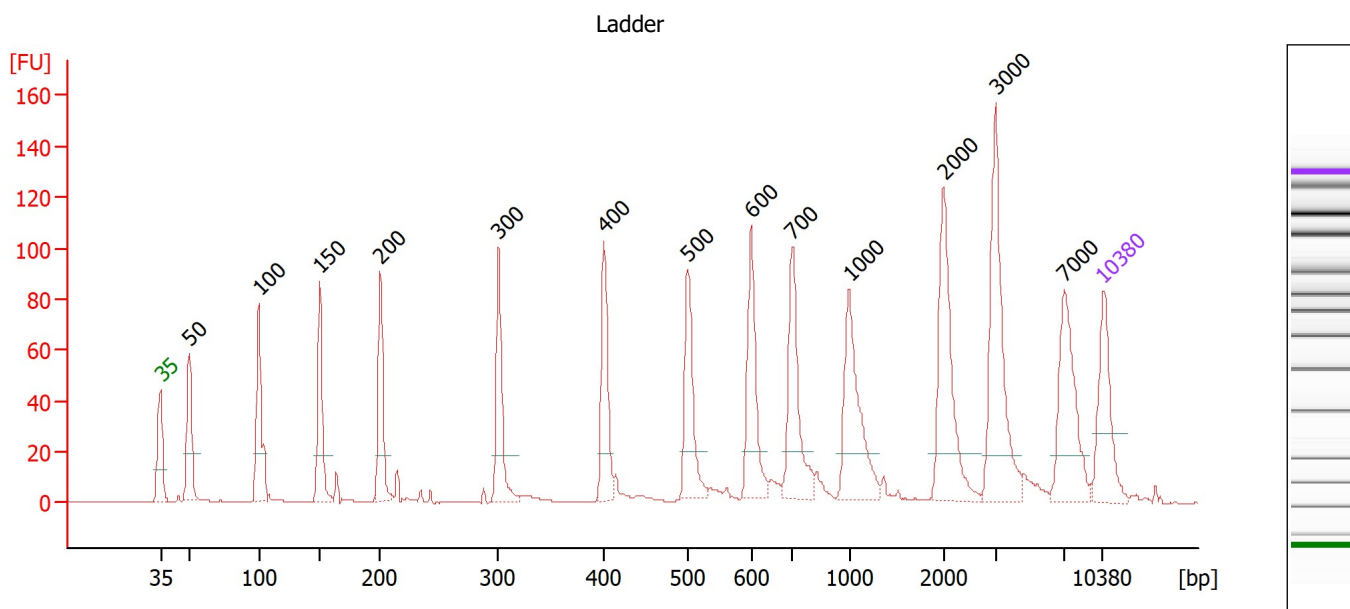
Ladder

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: 0.1

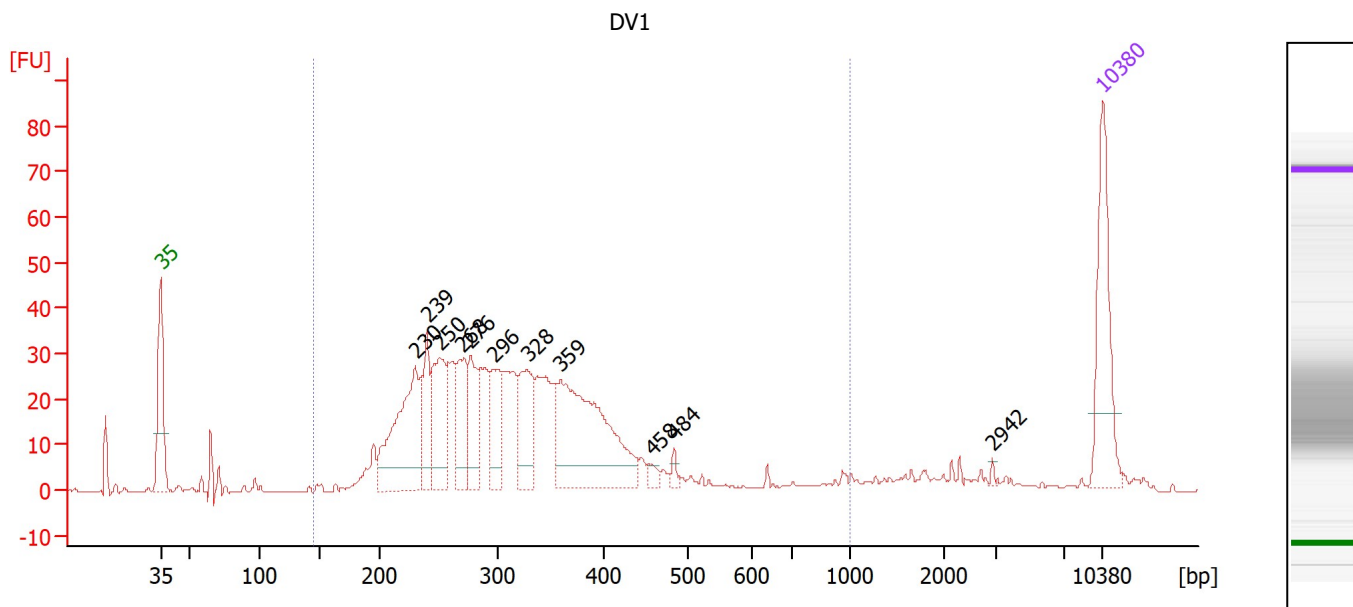
Peak table for Ladder

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 : DV1

Number of peaks found: 11 Corr. Area 1: 532.7
Noise: 0.2

Peak table for sample 1 : DV1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	230	151.80	1,001.2	
3	239	54.62	346.0	
4	250	88.55	536.9	
5	268	54.60	308.5	
6	276	59.18	324.5	
7	296	57.24	293.1	
8	328	66.93	309.4	
9	359	196.18	828.5	
10	458	6.71	22.2	
11	484	5.84	18.3	
12	2,942	1.70	0.9	
13	10,380	75.00	10.9	Upper Marker

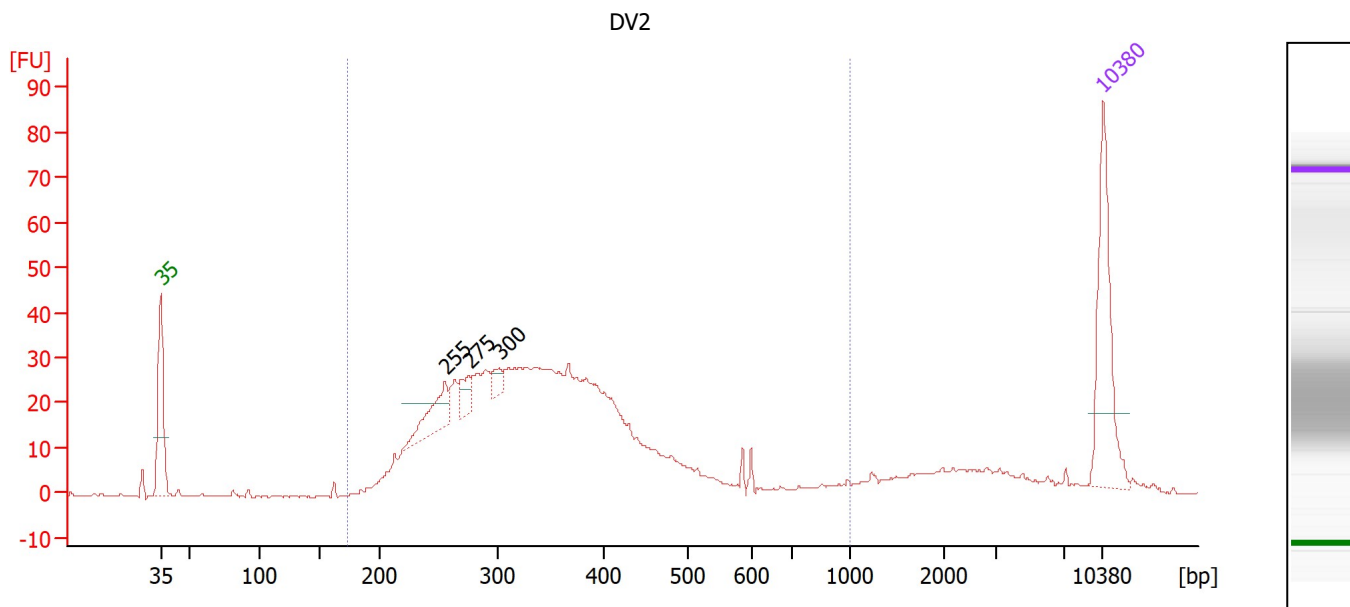
Region table for sample 1 : DV1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
146	1,000	532.7	97	308	22.7	864.96	4,506.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : DV2

Number of peaks found: 3 Corr. Area 1: 678.0
 Noise: 0.3

Peak table for sample 2 : DV2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	43.52	258.6	
3	275	17.90	98.7	
4	300	11.53	58.1	
5	10,380	75.00	10.9	Upper Marker

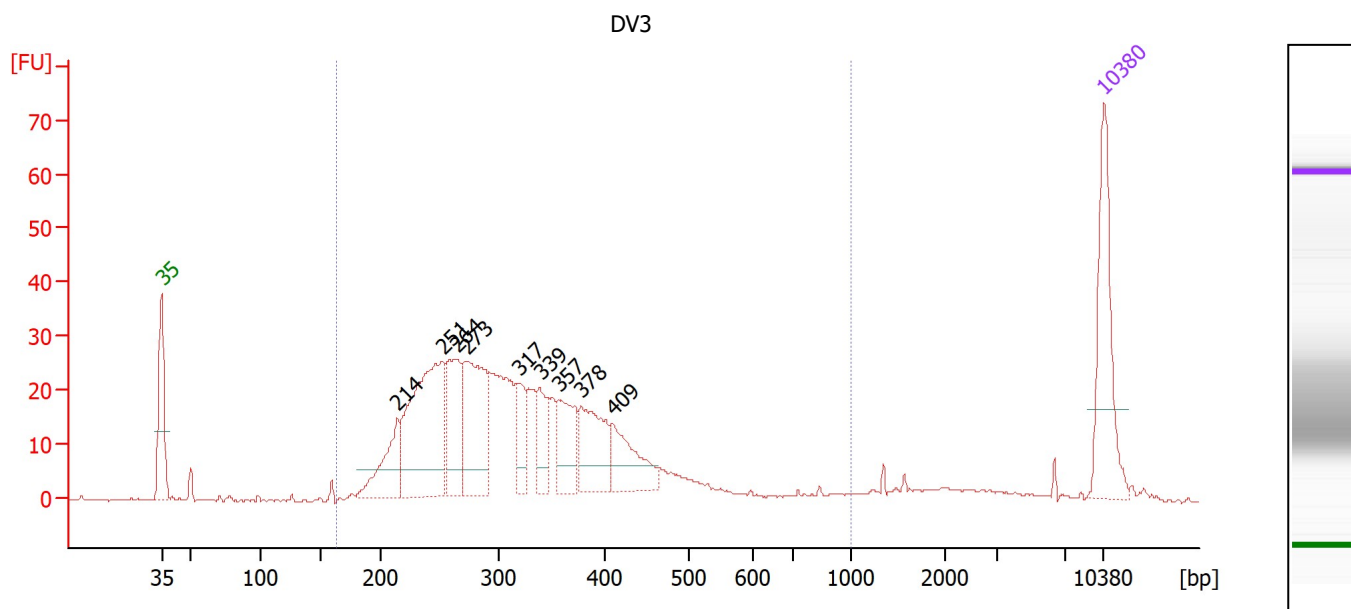
Region table for sample 2 : DV2

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	678.0	87	354	31.7	1,020.07	4,841.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : DV3

Number of peaks found: 9 Corr. Area 1: 583.1
 Noise: 0.2

Peak table for sample 3 : DV3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	214	62.74	444.9	
3	251	187.09	1,127.8	
4	264	82.73	475.4	
5	273	116.30	646.0	
6	317	37.40	178.5	
7	339	35.44	158.6	
8	357	50.00	212.4	
9	378	66.24	265.7	
10	409	53.57	198.2	
11	10,380	75.00	10.9	Upper Marker

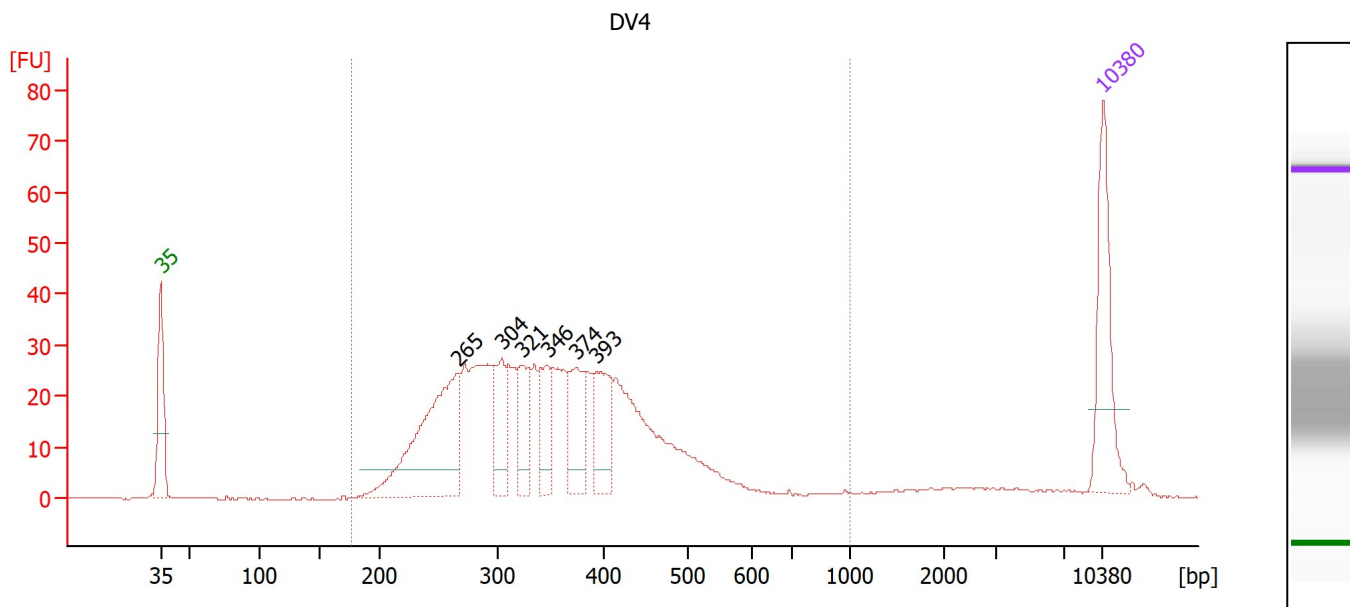
Region table for sample 3 : DV3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
163	1,000	583.1	91	331	33.0	1,000.84	5,096.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : DV4

Number of peaks found: 6
Noise: 0.1
Corr. Area 1: 657.5

Peak table for sample 4 : DV4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	204.52	1,169.7	
3	304	63.38	316.2	
4	321	49.29	232.4	
5	346	43.26	189.5	
6	374	65.24	264.4	
7	393	65.61	252.9	
8	10,380	75.00	10.9	Upper Marker

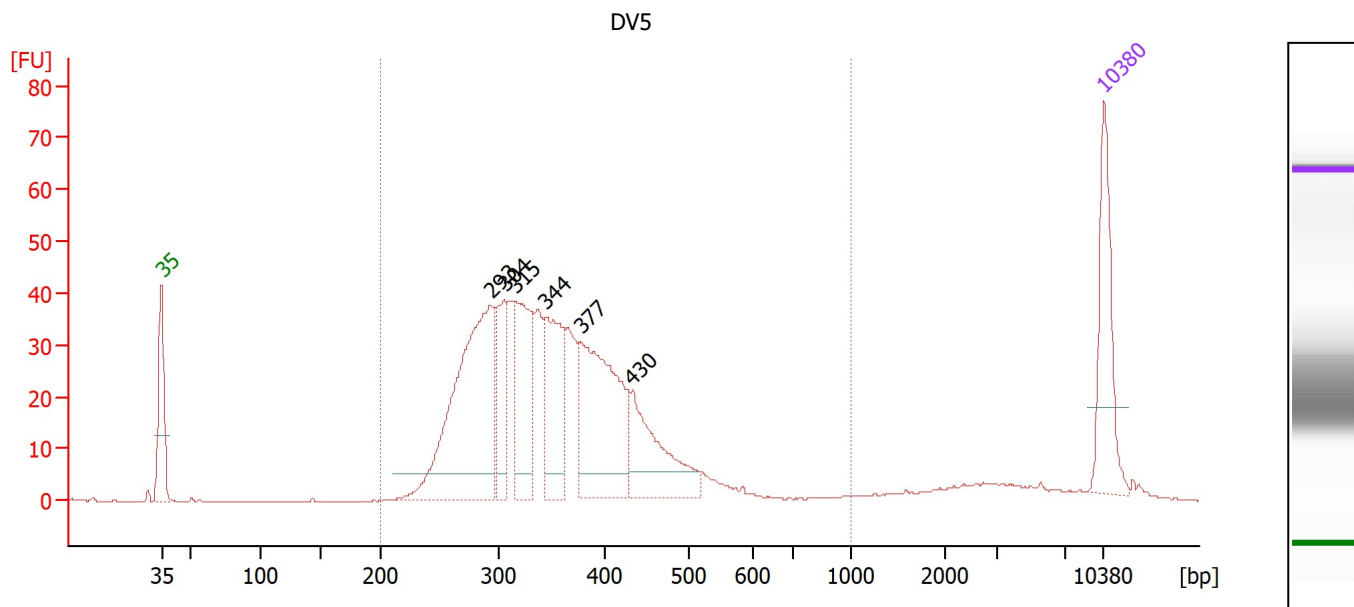
Region table for sample 4 : DV4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
176	1,000	657.5	93	357	28.4	1,076.08	5,010.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : DV5

Number of peaks found: 6
 Noise: 0.1
 Corr. Area 1: 691.3

Peak table for sample 5 : DV5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	310.95	1,610.6	
3	304	77.74	386.8	
4	315	122.82	590.7	
5	344	114.57	505.0	
6	377	205.48	825.9	
7	430	108.91	383.8	
8	10,380	75.00	10.9	Upper Marker

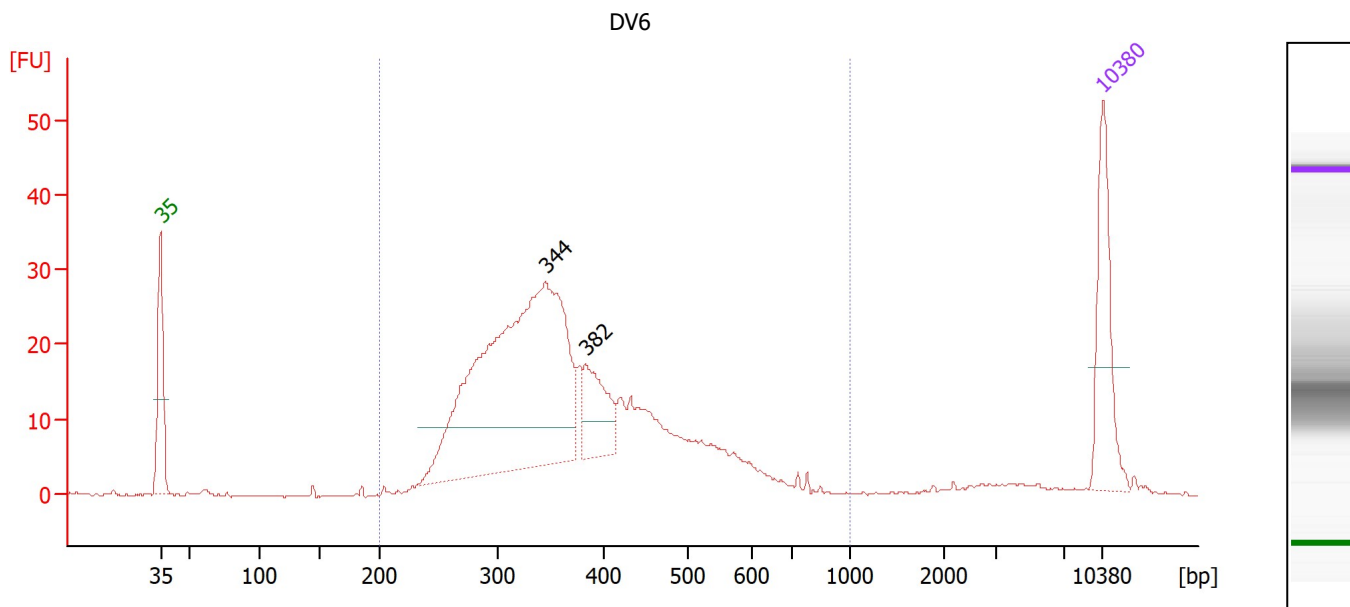
Region table for sample 5 : DV5

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	691.3	93	357	23.5	1,199.57	5,410.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : DV6

Number of peaks found: 2 Corr. Area 1: 464.7
Noise: 0.1

Peak table for sample 6 : DV6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	344	533.10	2,344.6	
3	382	68.08	269.8	
4	10,380	75.00	10.9	Upper Marker

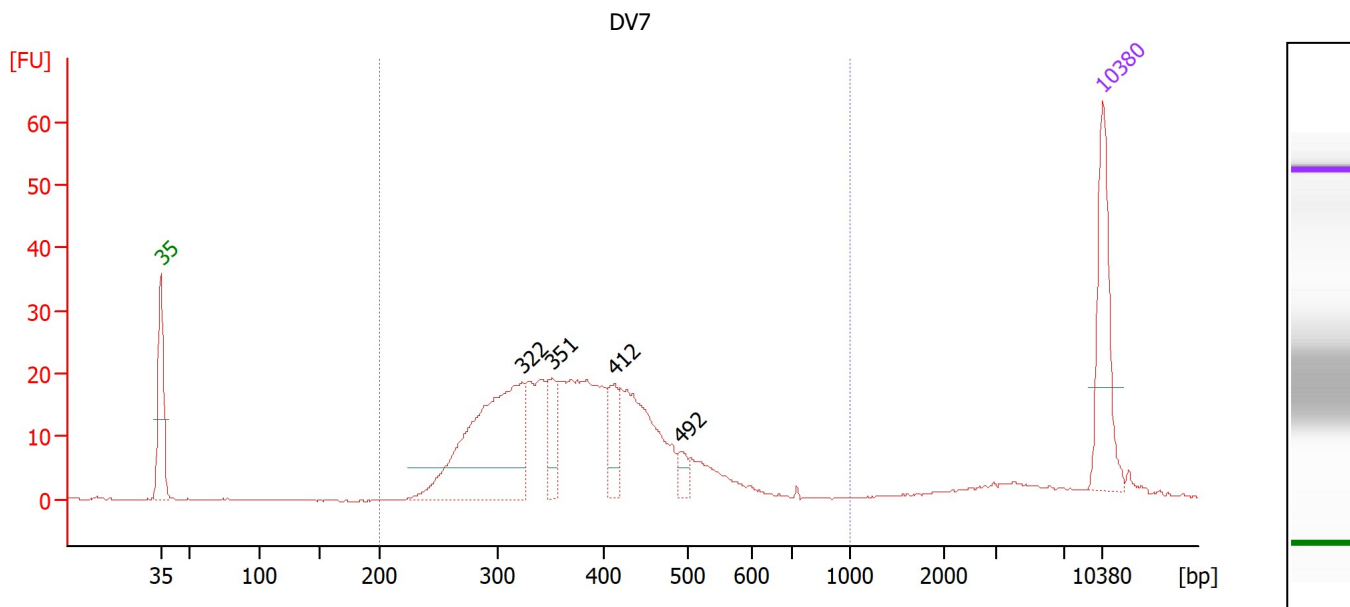
Region table for sample 6 : DV6

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	464.7	92	380	27.3	1,060.41	4,600.8	Blue

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Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-07-03_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : DV7

Number of peaks found: 4
Noise: 0.1
Corr. Area 1: 394.1

Peak table for sample 7 : DV7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	322	246.98	1,162.0	
3	351	40.51	175.0	
4	412	39.13	143.8	
5	492	13.59	41.9	
6	10,380	75.00	10.9	Upper Marker

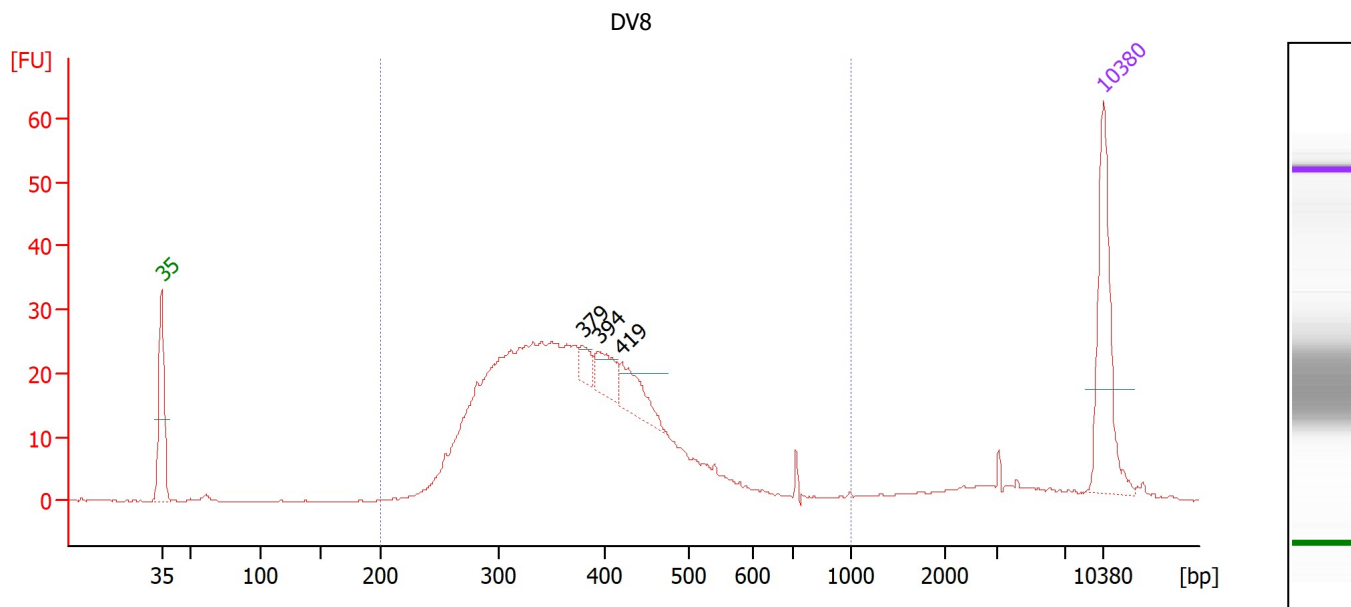
Region table for sample 7 : DV7

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	394.1	89	384	23.9	816.51	3,449.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : DV8

Number of peaks found: 3
 Noise: 0.2
 Corr. Area 1: 495.6

Peak table for sample 8 : DV8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	379	14.58	58.3	
3	394	26.66	102.6	
4	419	35.30	127.8	
5	10,380	75.00	10.9	Upper Marker

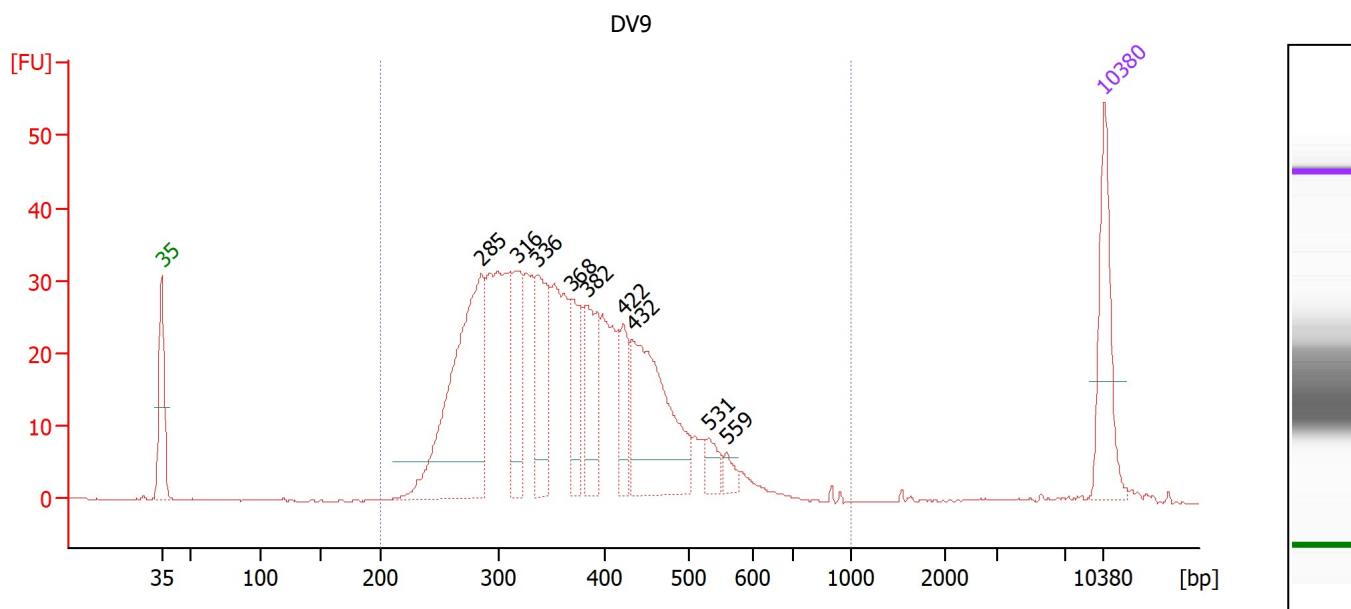
Region table for sample 8 : DV8

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	495.6	92	380	24.7	1,005.91	4,297.2	Blue

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



Overall Results for sample 9 : DV9

Number of peaks found: 9 Corr. Area 1: 643.1
 Noise: 0.1

Peak table for sample 9 : DV9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	285	310.87	1,653.5	
3	316	104.16	499.2	
4	336	113.82	513.5	
5	368	64.63	266.0	
6	382	83.43	330.7	
7	422	50.30	180.4	
8	432	189.26	663.3	
9	531	20.40	58.2	
10	559	12.02	32.6	
11	10,380	75.00	10.9	Upper Marker

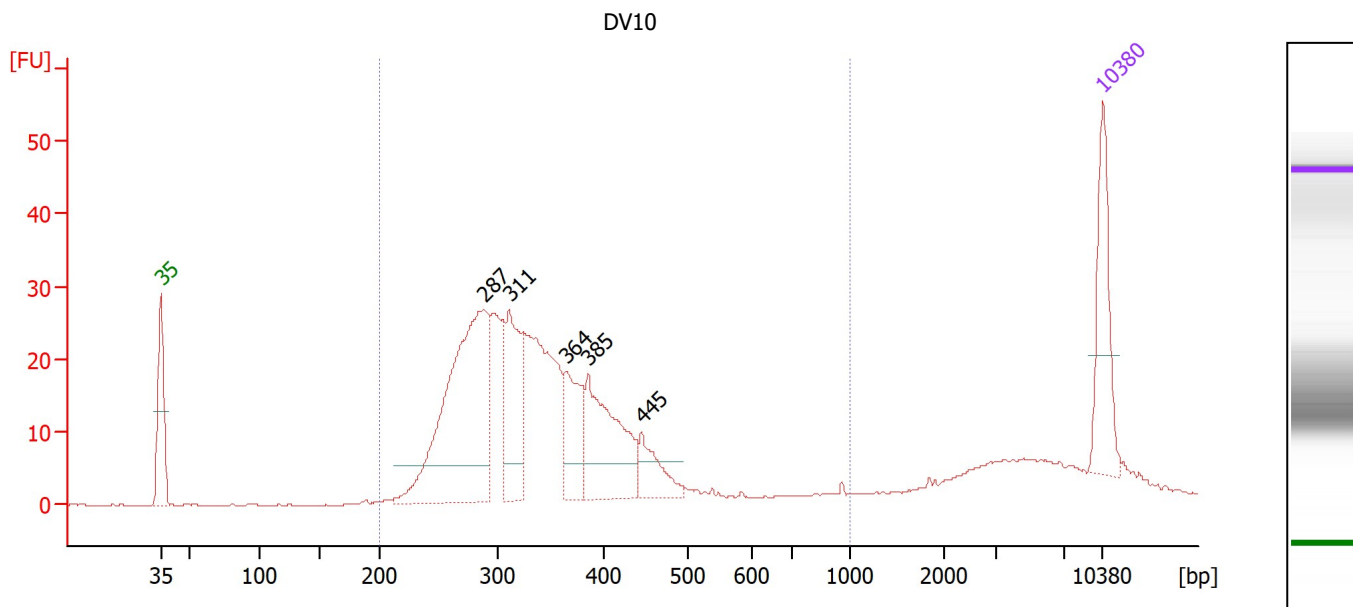
Region table for sample 9 : DV9

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	643.1	98	369	23.8	1,579.93	6,954.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : DV10

Number of peaks found: 5
Noise: 0.1
Corr. Area 1: 432.4

Peak table for sample 10 : DV10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	363.67	1,916.8	
3	311	131.58	642.1	
4	364	72.67	302.2	
5	385	145.62	573.3	
6	445	47.49	161.8	
7	10,380	75.00	10.9	Upper Marker

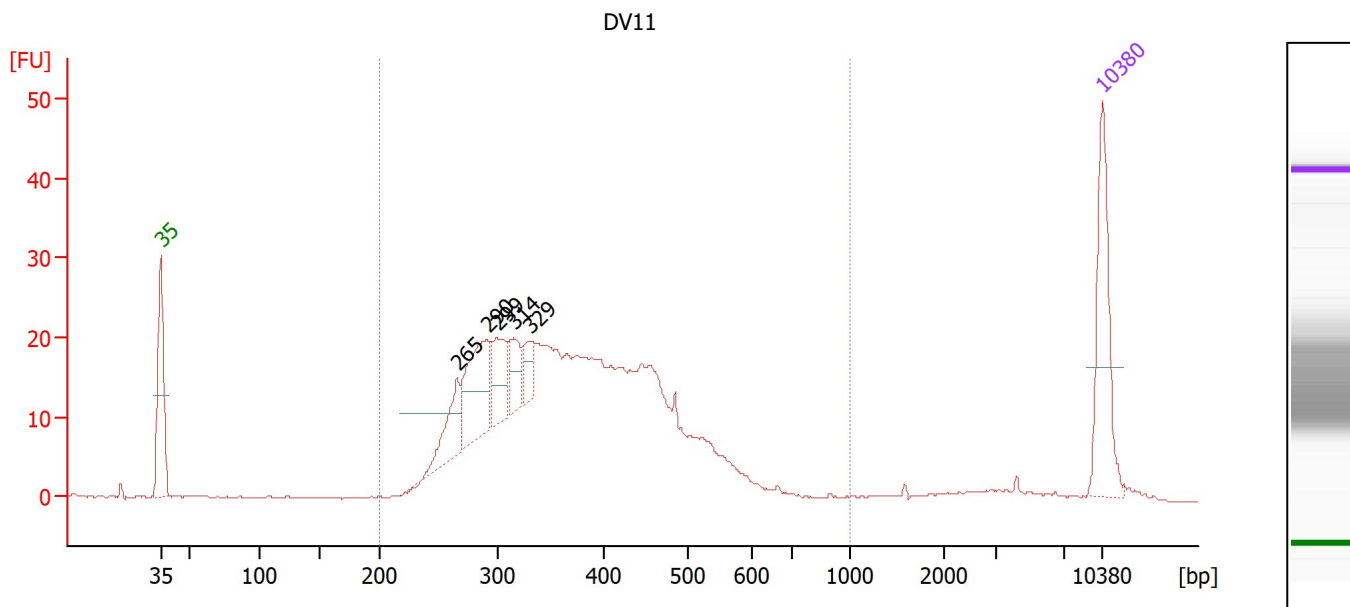
Region table for sample 10 : DV10

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	432.4	85	347	28.2	1,158.45	5,426.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 11 : DV11

Number of peaks found: 5 Corr. Area 1: 438.6
 Noise: 0.1

Peak table for sample 11 : DV11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	49.23	281.3	
3	290	91.47	477.7	
4	299	42.67	216.4	
5	314	30.27	145.9	
6	329	21.61	99.6	
7	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : DV11

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	438.6	96	378	24.5	1,176.98	5,085.6	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		7/3/2025 2:44:54 PM	(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\2025-07-03\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-07-03_001.xad)		Instrument	Run		7/3/2025 2:03:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/3/2025 2:03:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/3/2025 2:03:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/3/2025 2:03:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/3/2025 2:03:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/3/2025 2:03:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/3/2025 2:03:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB