Assay Class:　　　High Sensitivity DNA Assay
Data Path:　　　　C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created:　6/13/2025 10:13:41 AM
Modified:　6/13/2025 11:03:17 AM

Electrophoresis File Run Summary


Instrument Information:

Instrument Name:	DE54107205	Firmware:	C.01.069
Serial#:	DE54107205	Type:	G2939A

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:

August_Seeds_1

August_seeds_2

August_seeds_18

Irene_TNW_268

Irene_CCD_272
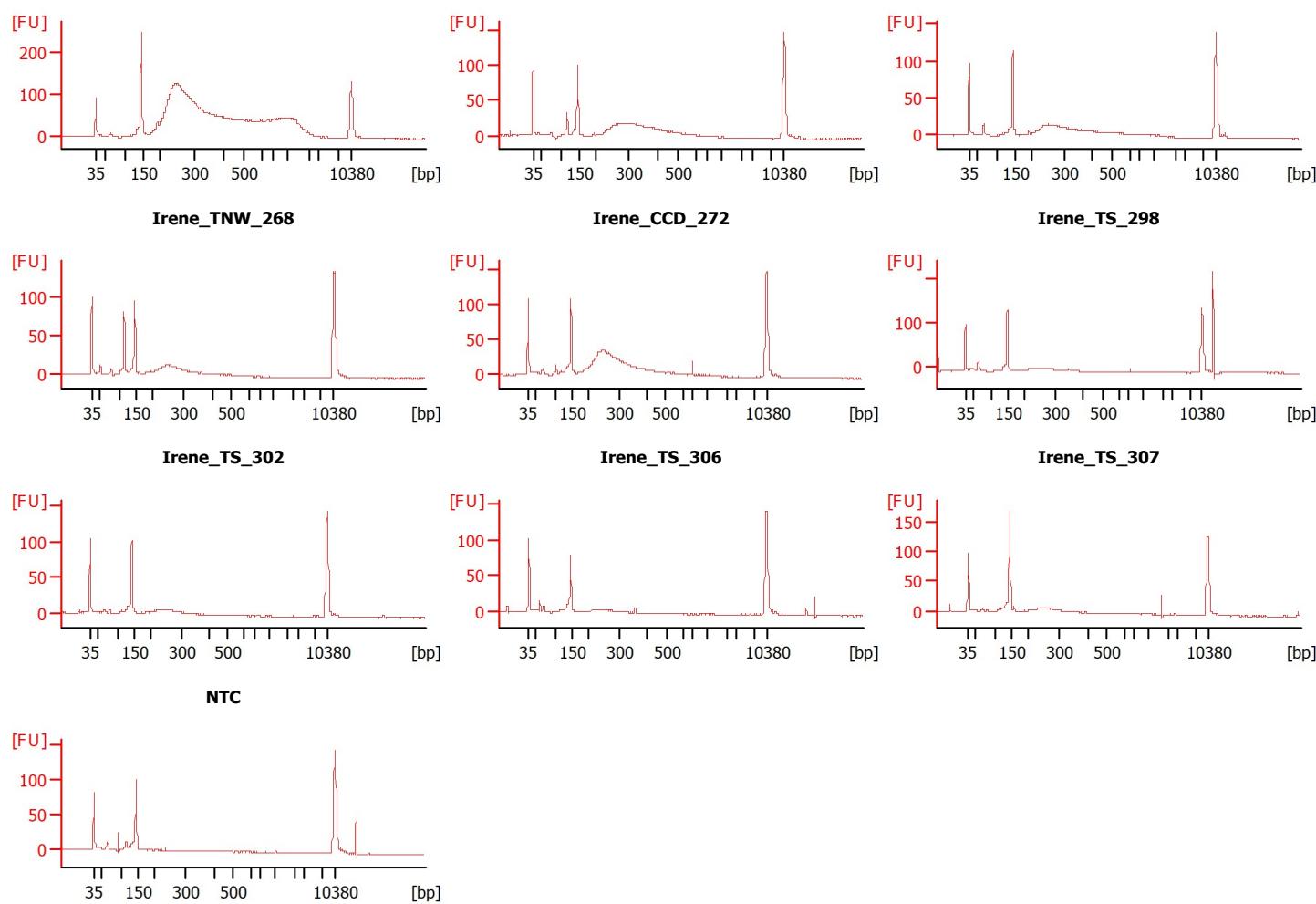
Irene_TS_298

Irene_TS_302

Irene_TS_306

Irene_TS_307

NTC

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
August_Seeds_1		☐	✔			
August_seeds_2		☐	✔			
August_seeds_18		☐	✔			
Irene_TNW_268		☐	✔			
Irene_CCD_272		☐	✔			
Irene_TS_298		☐	✔			
Irene_TS_302		☐	✔			
Irene_TS_306		☐	✔			
Irene_TS_307		☐	✔			
NTC		☐	✔			
sample 11		☐				
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

| Assay Class: | High Sensitivity DNA Assay | Created: | 6/13/2025 10:13:41 AM |
| Data Path: | C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad | Modified: | 6/13/2025 11:03:17 AM |

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
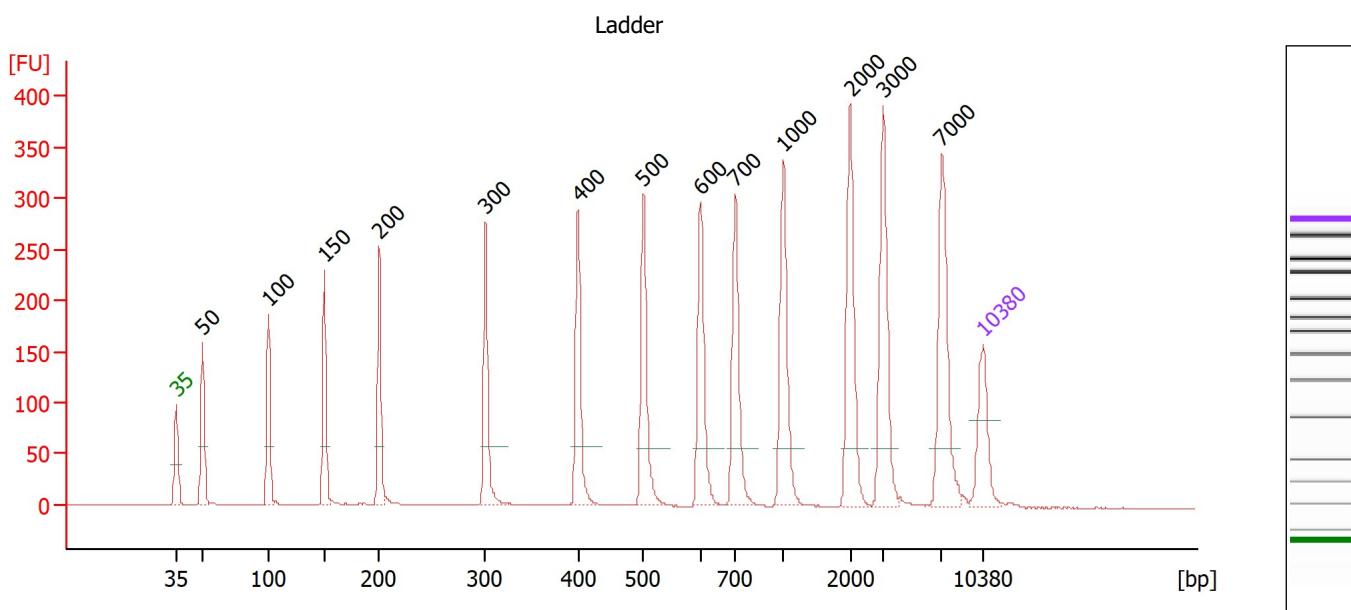
Ladder

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary


Overall Results for Ladder

Noise: 0.2
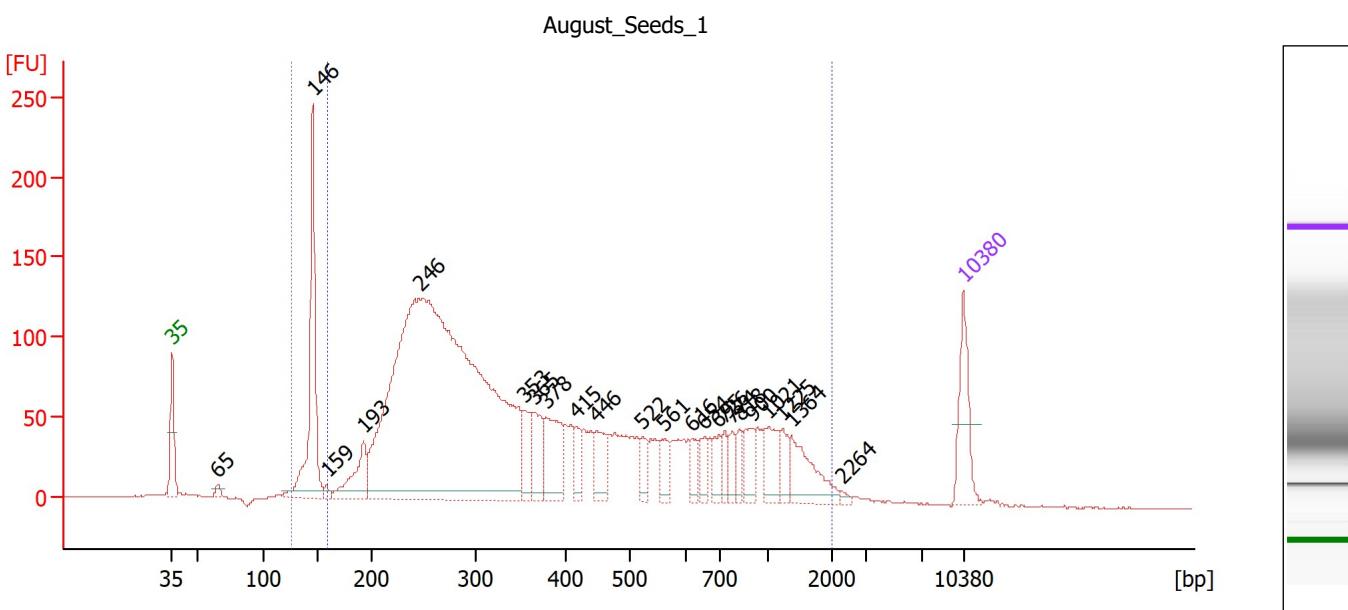
Peak table for Ladder

Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◄	35	125.00	Lower Marker	5,411.3
2	L	50	150.00	Ladder Peak	4,545.5
3	L	100	150.00	Ladder Peak	2,272.7
4	L	150	150.00	Ladder Peak	1,515.2
5	L	200	150.00	Ladder Peak	1,136.4
6	L	300	150.00	Ladder Peak	757.6
7	L	400	150.00	Ladder Peak	568.2
8	L	500	150.00	Ladder Peak	454.5
9	L	600	150.00	Ladder Peak	378.8
10	L	700	150.00	Ladder Peak	324.7
11	L	1,000	150.00	Ladder Peak	227.3
12	L	2,000	150.00	Ladder Peak	113.6
13	L	3,000	150.00	Ladder Peak	75.8
14	L	7,000	150.00	Ladder Peak	32.5
15	▶	10,380	75.00	Upper Marker	10.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...

August_Seeds_1

Overall Results for sample 1 :   August_Seeds_1

Number of peaks found:	23	Corr. Area 1:	276.6
Noise:	0.4	Corr. Area 2:	3,326.3

Peak table for sample 1 :   August_Seeds_1

Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◄	35	125.00	Lower Marker	5,411.3
2		65	11.50		266.6
3		146	345.61		3,589.8
4		159	9.93		94.8
5		193	95.67		751.7
6		246	2,082.65		12,832.1
7		353	57.51		246.8
8		365	74.40		309.0
9		378	113.13		453.9
10		415	34.05		124.3
11		446	60.19		204.5
12		522	32.95		95.6
13		561	35.81		96.8
14		616	23.66		58.2
15		654	29.88		69.2
16		695	32.54		70.9
17		726	25.67		53.5
18		774	27.18		53.2
19		818	25.35		46.9
20		900	42.03		70.8
21		1,021	48.54		72.0
22		1,225	31.60		39.1
23		1,364	79.15		87.9
24		2,264	4.90		3.3
25	▶	10,380	75.00	Upper Marker	10.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...
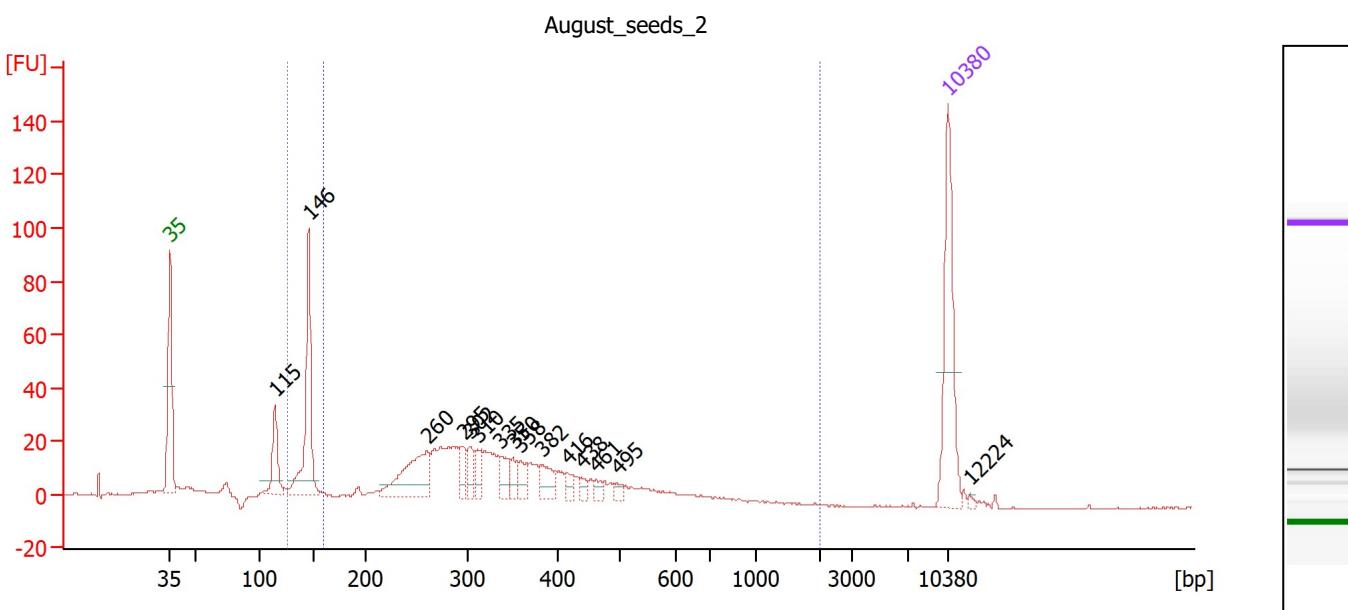
... Region table for sample 1 :   August_Seeds_1

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	276.6	145	7	3.5	353.64	3,703.9	
160	2,000	3,326.3	474	90	70.3	3,301.84	15,617.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...

August_seeds_2

Overall Results for sample 2 :   August_seeds_2

Number of peaks found:	15	Corr. Area 1:	113.3
Noise:	0.3	Corr. Area 2:	456.2

Peak table for sample 2 :   August_seeds_2

Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◄	35	125.00	Lower Marker	5,411.3
2		115	45.41		598.4
3		146	127.47		1,322.0
4		260	73.54		428.7
5		295	17.14		88.1
6		302	17.94		90.1
7		310	15.78		77.1
8		335	19.61		88.6
9		350	11.76		50.9
10		358	14.95		63.2
11		382	18.97		75.3
12		416	9.50		34.6
13		438	5.95		20.6
14		461	6.42		21.1
15		495	5.75		17.6
16	▶	10,380	75.00	Upper Marker	10.9
17		12,224	0.00		0.0
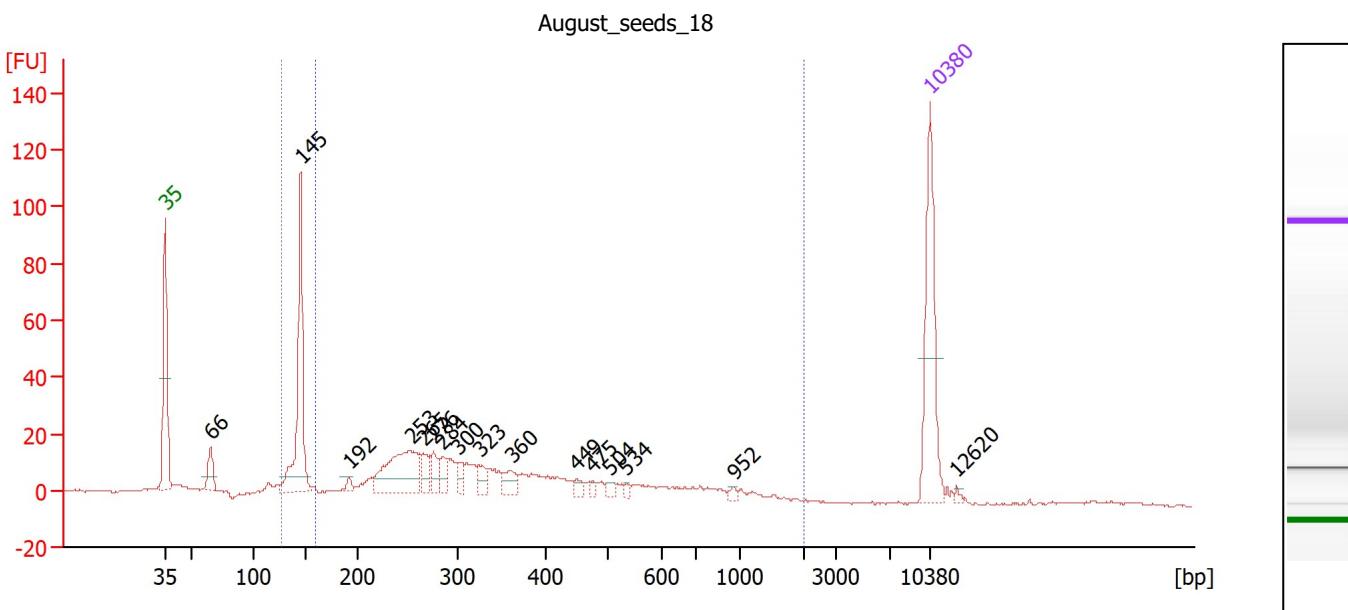
Region table for sample 2 :   August_seeds_2

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	113.3	145	17	3.5	135.14	1,416.8	■
160	2,000	456.2	357	69	33.1	428.70	2,046.8	■

Assay Class: High Sensitivity DNA Assay   Created: 6/13/2025 10:13:41 AM
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad   Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...

August_seeds_18

Overall Results for sample 3 :   August_seeds_18

Number of peaks found:	16	Corr. Area 1:	126.0
Noise:	0.3	Corr. Area 2:	404.2

Peak table for sample 3 :   August_seeds_18

| Peak	Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1 ◄	35	125.00	Lower Marker	5,411.3
2	66	23.75		544.2
3	145	150.23		1,567.3
4	192	5.92		46.8
5	253	83.64		501.0
6	265	17.33		99.0
7	276	15.57		85.6
8	284	15.42		82.2
9	300	10.60		53.5
10	323	12.88		60.4
11	360	14.32		60.4
12	449	6.01		20.3
13	475	3.75		12.0
14	504	4.81		14.5
15	534	3.21		9.1
16	952	2.80		4.5
17 ▶	10,380	75.00	Upper Marker	10.9
18	12,620	0.00		0.0
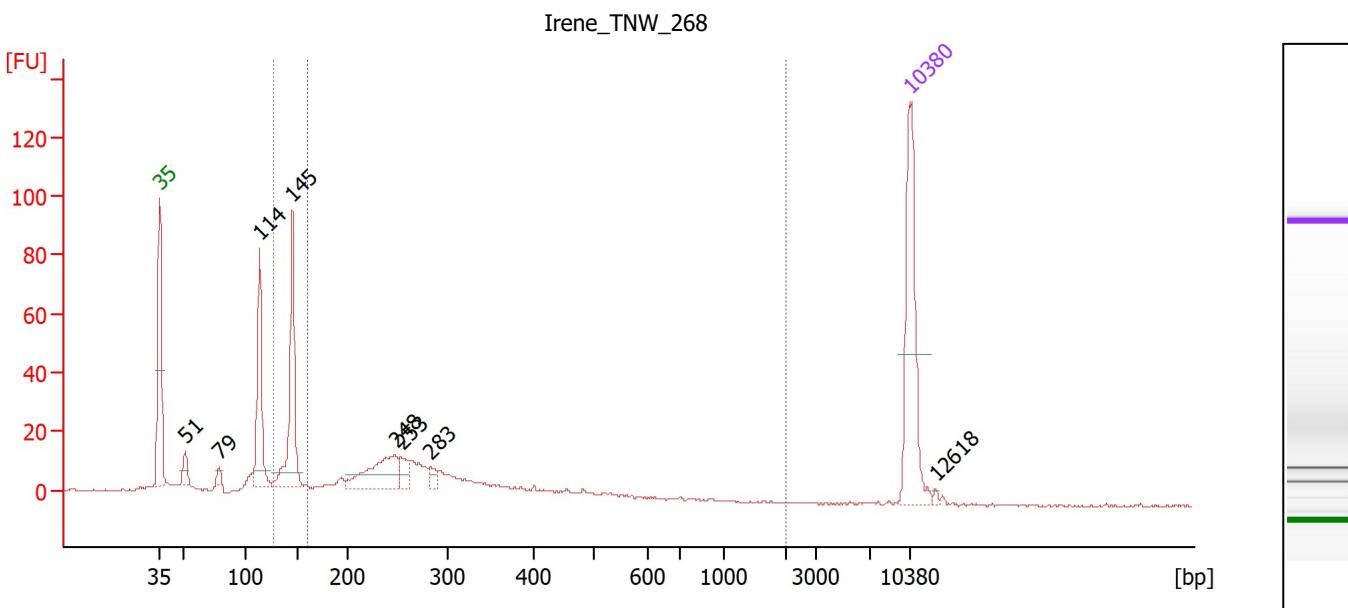
Region table for sample 3 :   August_seeds_18

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	126.0	144	21	3.5	157.54	1,660.7	▮
160	2,000	404.2	407	68	57.8	396.61	1,919.1	▮

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...

Irene_TNW_268

Overall Results for sample 4 :   Irene_TNW_268

Number of peaks found:	8	Corr. Area 1:	111.2
Noise:	0.3	Corr. Area 2:	225.7

Peak table for sample 4 :   Irene_TNW_268

| Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◀	35	125.00	Lower Marker	5,411.3
2		51	14.52		434.3
3		79	6.76		130.2
4		114	88.62		1,178.3
5		145	111.78		1,166.4
6		248	55.73		341.1
7		253	14.11		84.3
8		283	8.01		42.9
9	▶	10,380	75.00	Upper Marker	10.9
10		12,618	0.00		0.0
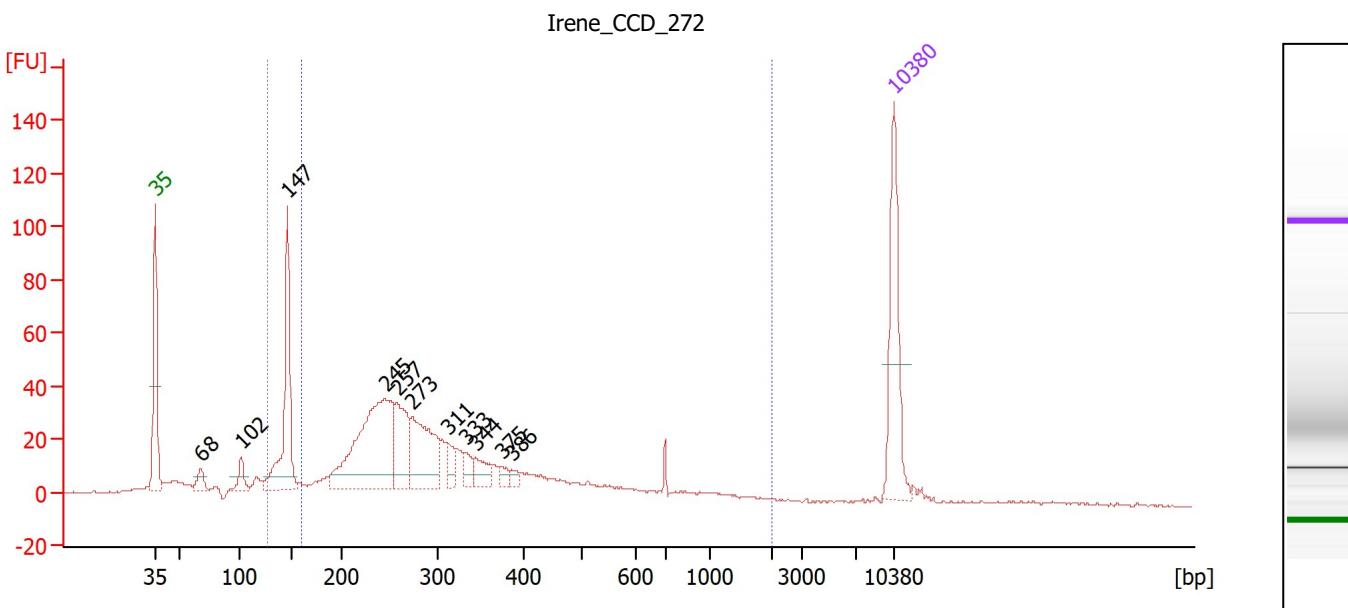
Region table for sample 4 :   Irene_TNW_268

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	111.2	144	23	3.6	126.55	1,331.0	▪
160	2,000	225.7	288	47	28.4	214.63	1,237.9	▪

Electropherogram Summary Continued ...

Irene_CCD_272

Overall Results for sample 5 :   Irene_CCD_272

Number of peaks found:	11	Corr. Area 1:	136.1
Noise:	0.4	Corr. Area 2:	726.2

Peak table for sample 5 :   Irene_CCD_272

| Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◄	35	125.00	Lower Marker	5,411.3
2		68	16.51		368.5
3		102	17.90		266.0
4		147	144.31		1,490.4
5		245	207.54		1,281.9
6		257	69.04		406.4
7		273	91.33		506.3
8		311	18.18		88.6
9		333	13.59		61.8
10		344	20.80		91.6
11		375	6.99		28.2
12		386	5.63		22.1
13	▶	10,380	75.00	Upper Marker	10.9
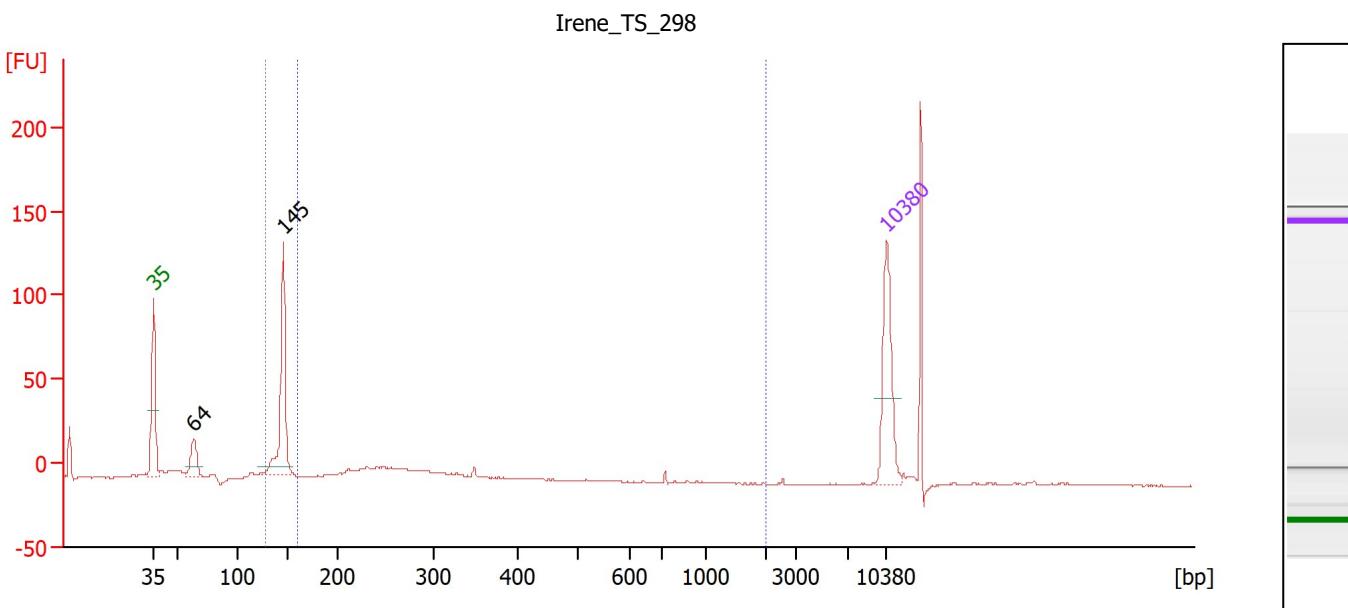
Region table for sample 5 :   Irene_CCD_272

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	136.1	145	14	4.2	157.31	1,647.4	▨
160	2,000	726.2	348	74	58.2	683.76	3,675.4	▨

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...

Irene_TS_298

Overall Results for sample 6 :   Irene_TS_298

Number of peaks found:	2	Corr. Area 1:	159.9
Noise:	0.4	Corr. Area 2:	212.2

Peak table for sample 6 :   Irene_TS_298

| Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◄	35	125.00	Lower Marker	5,411.3
2		64	41.59		989.5
3		145	162.05		1,692.9
4	▶	10,380	75.00	Upper Marker	10.9
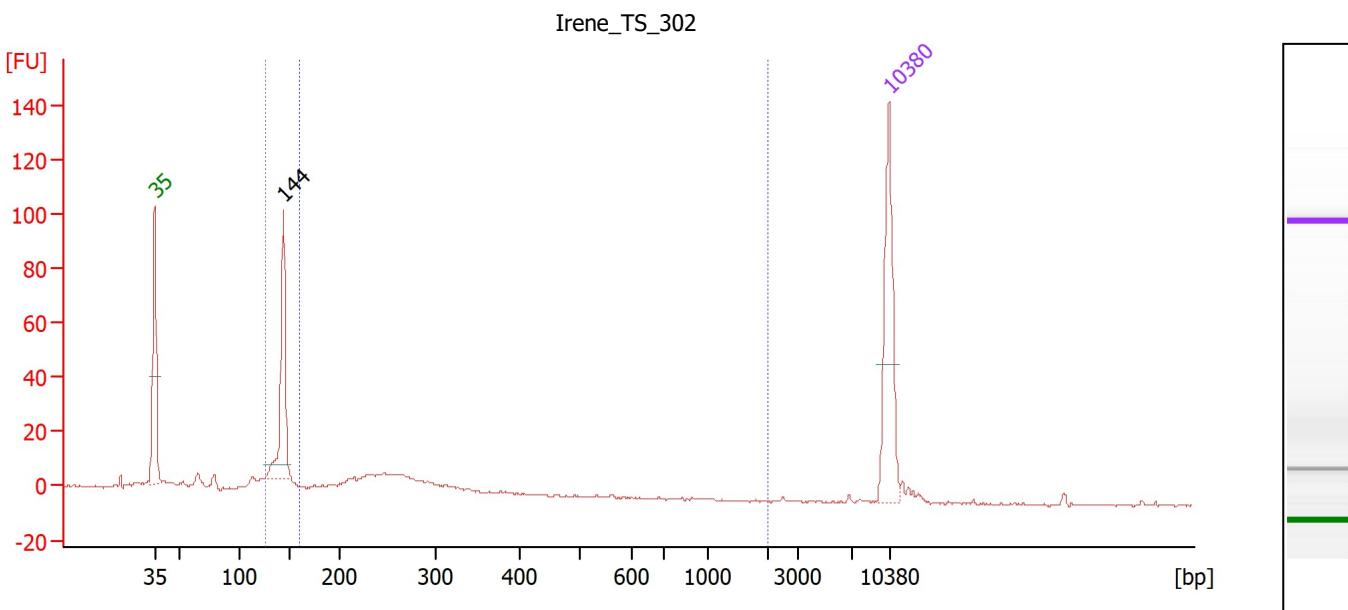
Region table for sample 6 :   Irene_TS_298

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	159.9	144	27	3.7	190.47	2,008.3	
160	2,000	212.2	335	35	55.0	207.78	1,164.6	

Assay Class:	High Sensitivity DNA Assay		Created:	6/13/2025 10:13:41 AM
Data Path:	C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad		Modified:	6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...

Irene_TS_302

Overall Results for sample 7 :　　Irene_TS_302

Number of peaks found:	1	Corr. Area 1:	117.9
Noise:	0.5	Corr. Area 2:	92.4

Peak table for sample 7 :　　Irene_TS_302

Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◀	35	125.00	Lower Marker	5,411.3
2		144	116.86		1,232.1
3	▶	10,380	75.00	Upper Marker	10.9
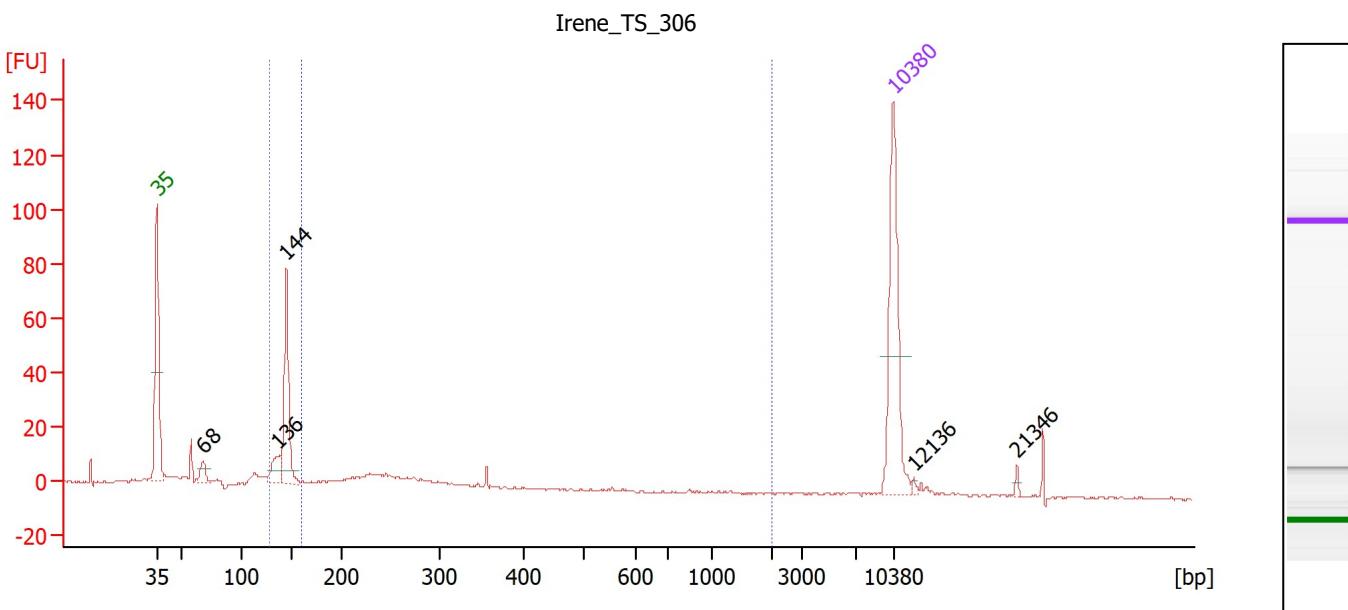
Region table for sample 7 :　　Irene_TS_302

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	117.9	143	44	3.5	141.95	1,509.4	▨
160	2,000	92.4	254	35	17.3	95.14	585.7	■

Electropherogram Summary Continued ...

Irene_TS_306

Overall Results for sample 8 :   Irene_TS_306

Number of peaks found:	5	Corr. Area 1:	97.6
Noise:	0.4	Corr. Area 2:	78.9

Peak table for sample 8 :   Irene_TS_306

Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◄	35	125.00	Lower Marker	5,411.3
2		68	12.31		272.7
3		136	22.56		251.3
4		144	87.59		919.1
5	▶	10,380	75.00	Upper Marker	10.9
6		12,136	0.00		0.0
7		21,346	0.00		0.0
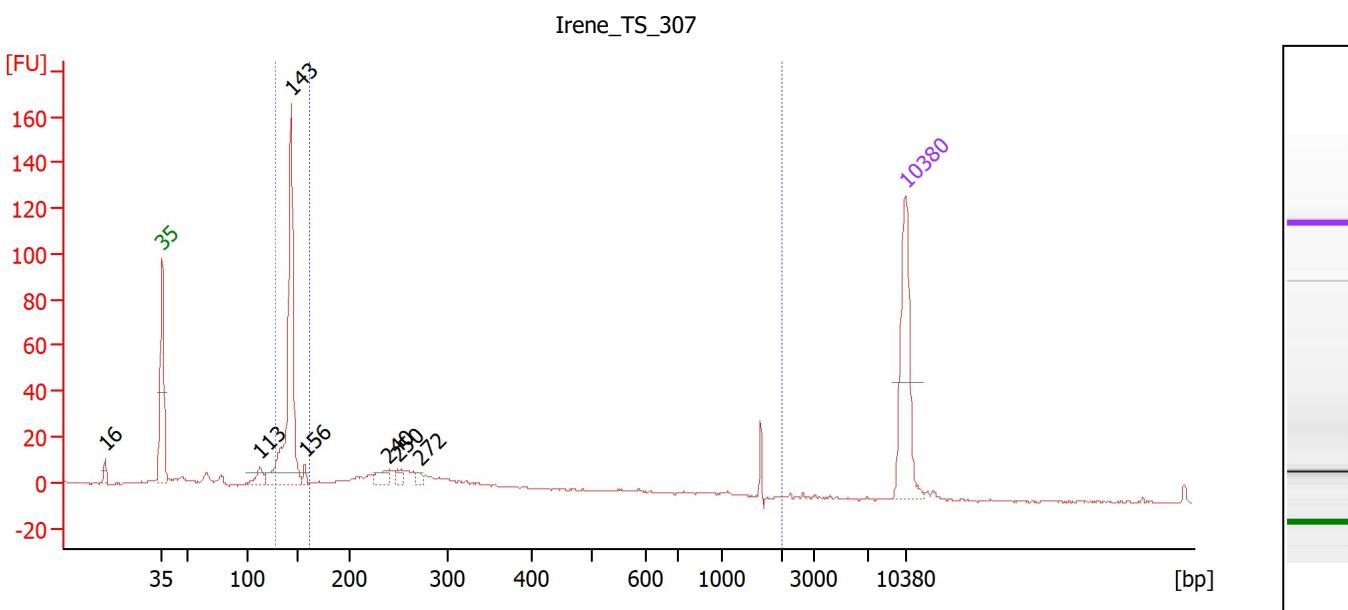
Region table for sample 8 :   Irene_TS_306

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	97.6	143	36	3.9	114.82	1,218.6	■
160	2,000	78.9	275	29	40.5	78.77	482.7	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
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Electropherogram Summary Continued ...

Irene_TS_307

Overall Results for sample 9 :   Irene_TS_307

Number of peaks found:	7	Corr. Area 1:	187.9
Noise:	0.4	Corr. Area 2:	113.6

Peak table for sample 9 :   Irene_TS_307

| Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1		16	0.00		0.0
2	◄	35	125.00	Lower Marker	5,411.3
3		113	14.96		201.0
4		143	227.74		2,416.8
5		156	5.85		56.7
6		240	15.06		95.1
7		250	7.93		48.1
8		272	4.87		27.2
9	▶	10,380	75.00	Upper Marker	10.9
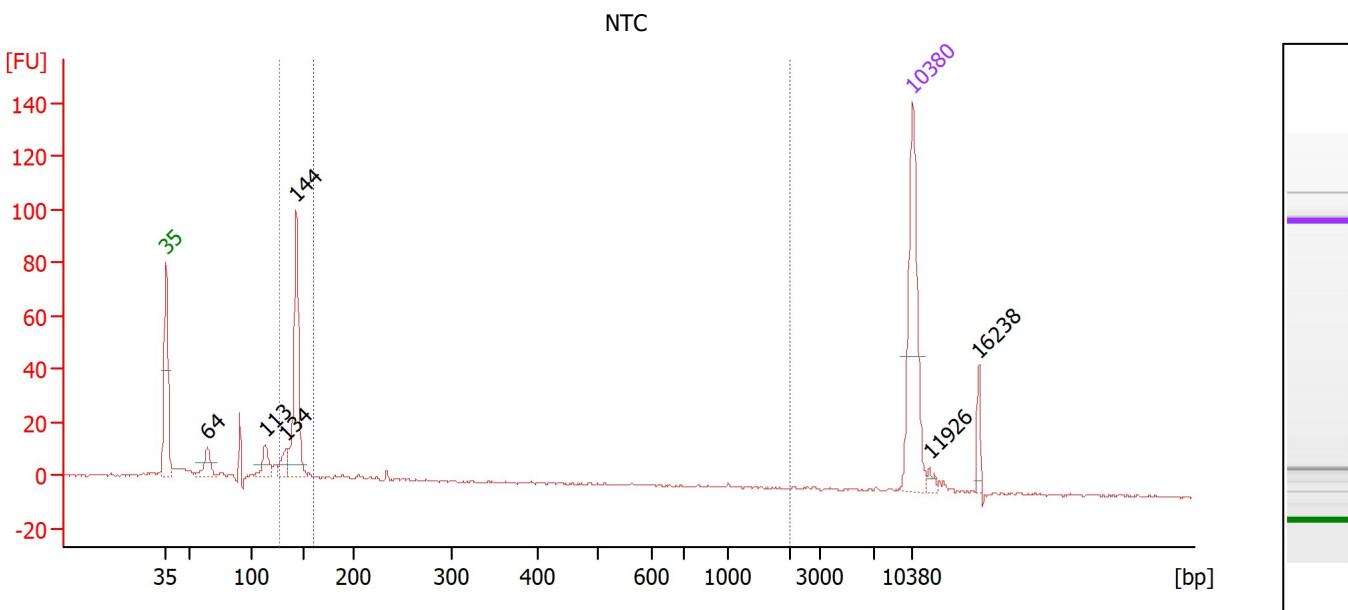
Region table for sample 9 :   Irene_TS_307

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	187.9	142	51	3.7	229.61	2,457.6	🟦
160	2,000	113.6	368	31	100.0	116.03	688.0	🟦

Assay Class: High Sensitivity DNA Assay   Created: 6/13/2025 10:13:41 AM
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad   Modified: 6/13/2025 11:03:17 AM

Electropherogram Summary Continued ...

NTC

Overall Results for sample 10 :   __NTC__

Number of peaks found:	6	Corr. Area 1:	118.9
Noise:	0.4	Corr. Area 2:	40.9

Peak table for sample 10 :   __NTC__

Peak		Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	◄	35	125.00	Lower Marker	5,411.3
2		64	21.34		505.5
3		113	21.21		283.4
4		134	17.53		198.2
5		144	113.55		1,196.5
6	▶	10,380	75.00	Upper Marker	10.9
7		11,926	0.00		0.0
8		16,238	0.00		0.0

Region table for sample 10 :   __NTC__

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
127	160	118.9	142	42	3.7	138.23	1,473.3	🟦
160	2,000	40.9	477	15	78.5	37.79	206.0	🟦
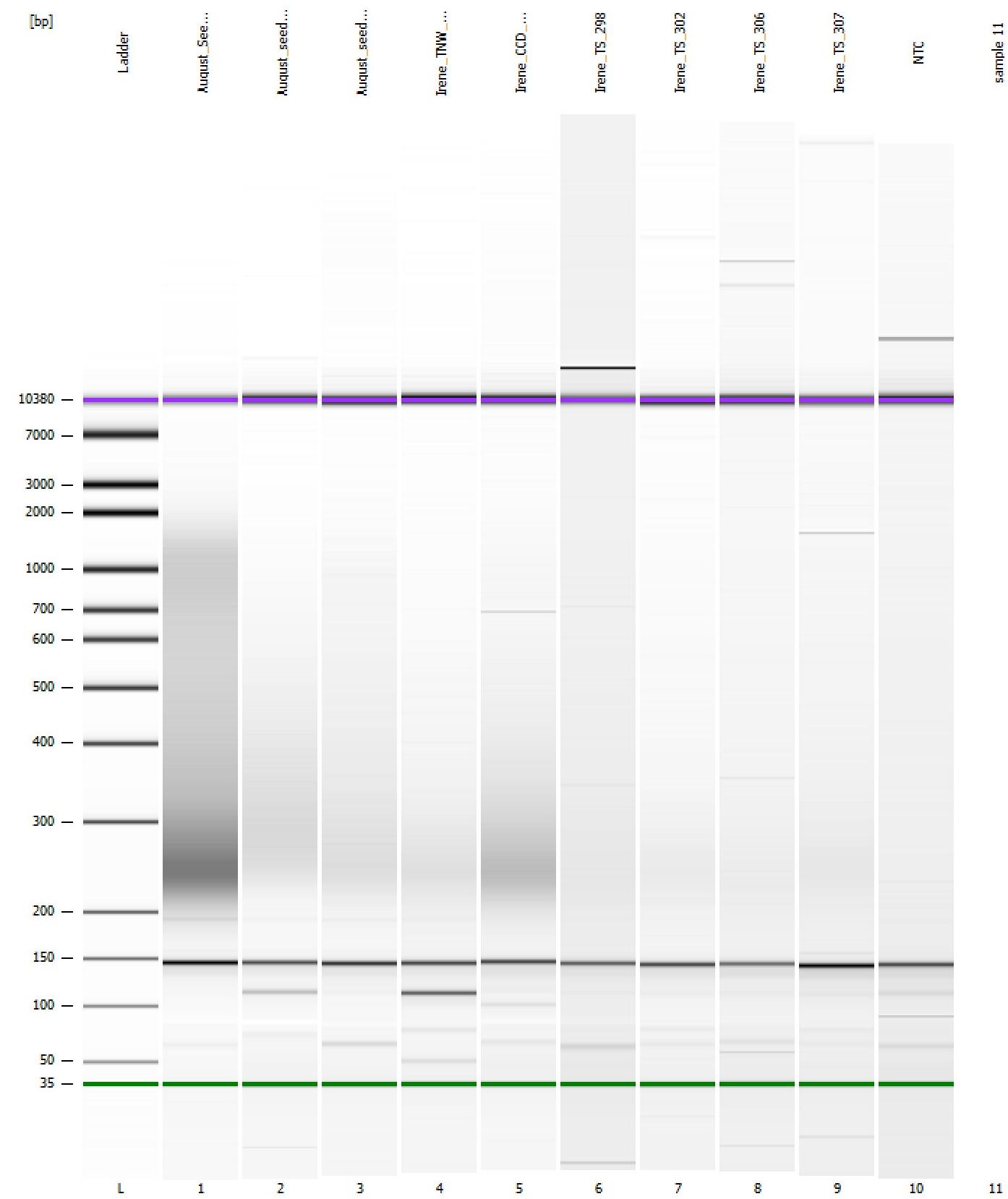
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM
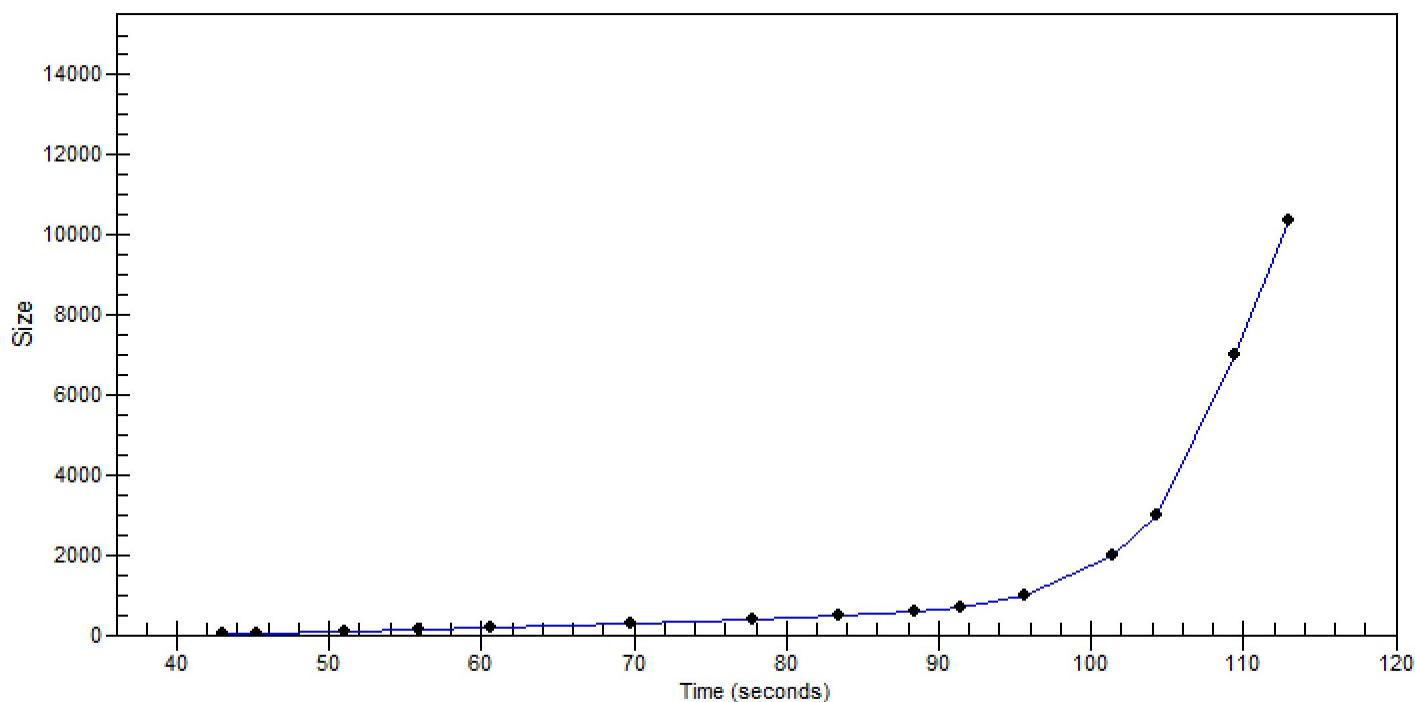
Gel Image

Assay Class: High Sensitivity DNA Assay Created: 6/13/2025 10:13:41 AM
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad Modified: 6/13/2025 11:03:17 AM

Curves

Standard Curve

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54107205_2025-06-13_10-13-42.xad

Created: 6/13/2025 10:13:41 AM
Modified: 6/13/2025 11:03:17 AM

Invalid Samples

Sample 11 has not been run, no results available.