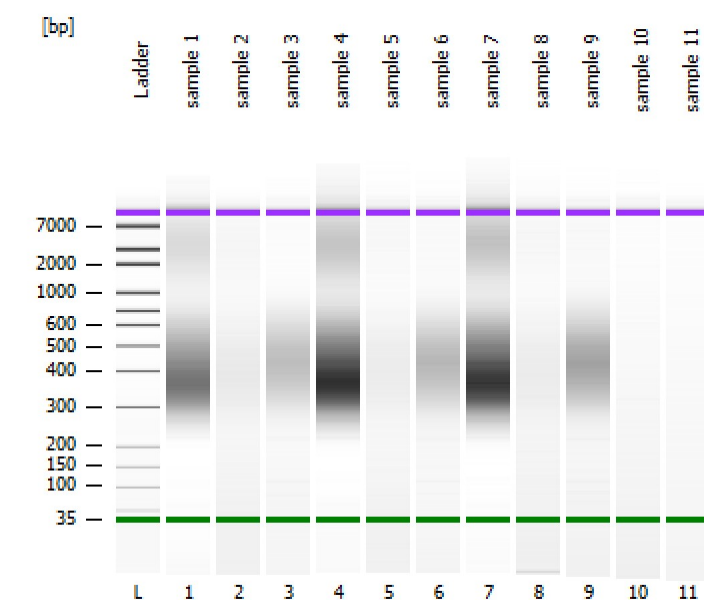|	
Assay Class:	High Sensitivity DNA Assay
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad

Created: 22/04/2021 14:43:39
Modified: 22/04/2021 15:25:50

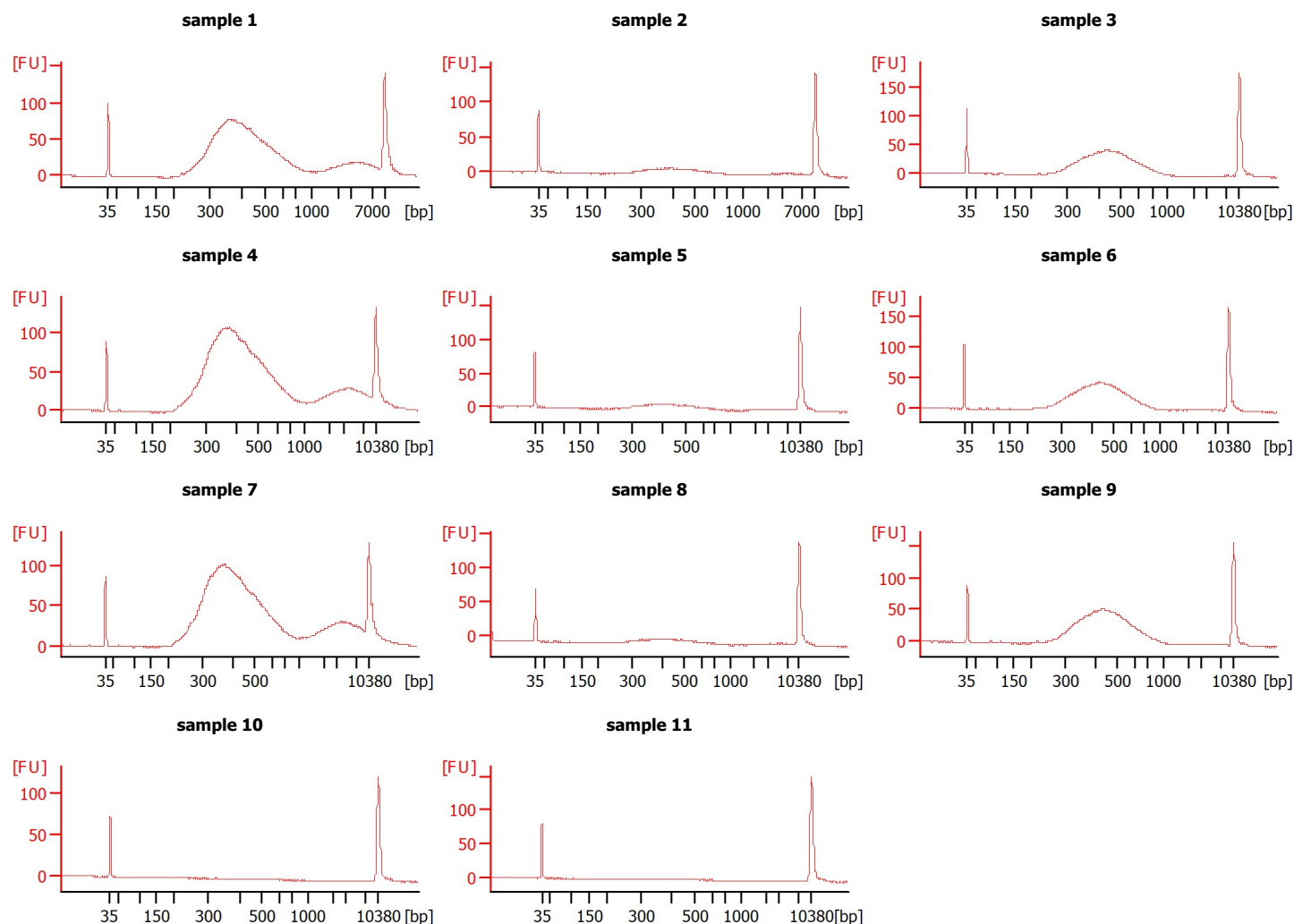## Electrophoresis File Run Summary

Instrument Information:

Instrument Name:	DEDAE01844	Firmware:	C.01.069
Serial#:	DEDAE01844	Type:	G2939B

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:

sample 1

sample 2

sample 3

sample 4

sample 5

sample 6

sample 7

sample 8

sample 9

sample 10

sample 11

| Assay Class: | High Sensitivity DNA Assay | Created: | 22/04/2021 14:43:39 |
| Data Path: | C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad | Modified: | 22/04/2021 15:25:50 |

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		☐	✔			
sample 2		☐	✔			
sample 3		☐	✔			
sample 4		☐	✔			
sample 5		☐	✔			
sample 6		☐	✔			
sample 7		☐	✔			
sample 8		☐	✔			
sample 9		☐	✔			
sample 10		☐	✔			
sample 11		☐	✔			
Ladder		☐	✔			

Chip Lot #　　　　　　　　　　　　　　　**Reagent Kit Lot #**

Chip Comments :

Assay Class:	High Sensitivity DNA Assay		Created:	22/04/2021 14:43:39
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad		Modified:	22/04/2021 15:25:50

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_DEDAE01844_2021-04-22_14-43-40.xad

Created:　22/04/2021 14:43:39
Modified:　22/04/2021 15:25:50

Electropherogram Summary
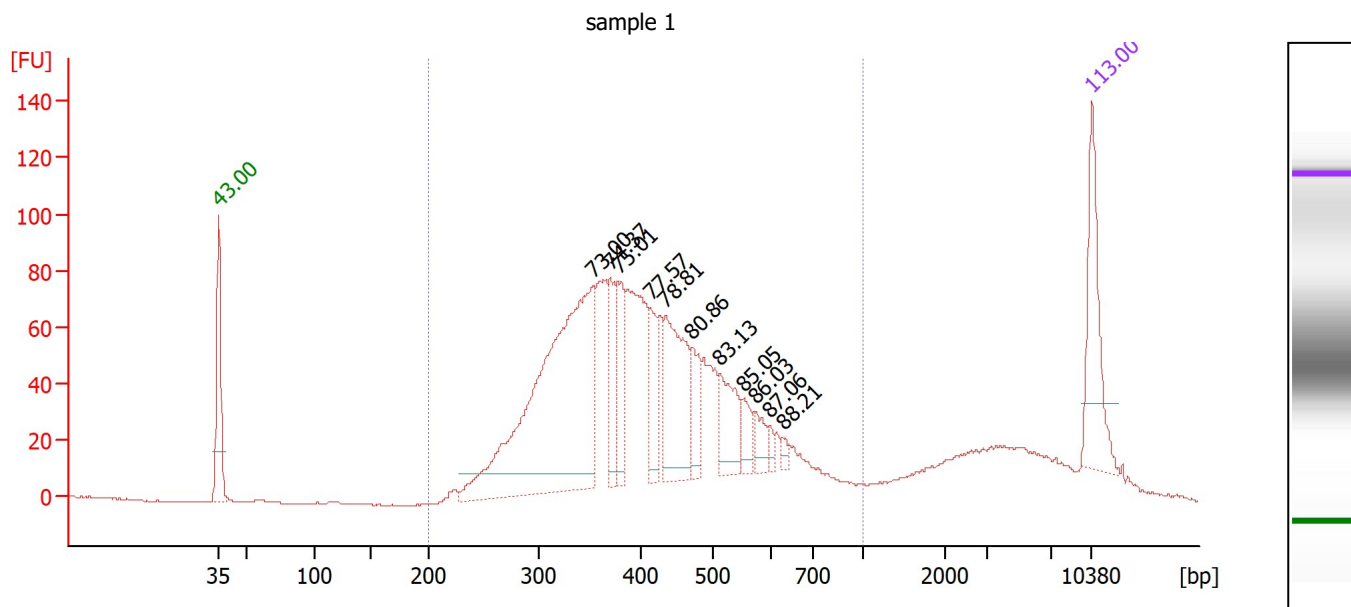
sample 1

Overall Results for sample 1 :　　sample 1

Number of peaks found:	11	Corr. Area 1:	1,725.0
Noise:	0.3		

Peak table for sample 1 :　　sample 1

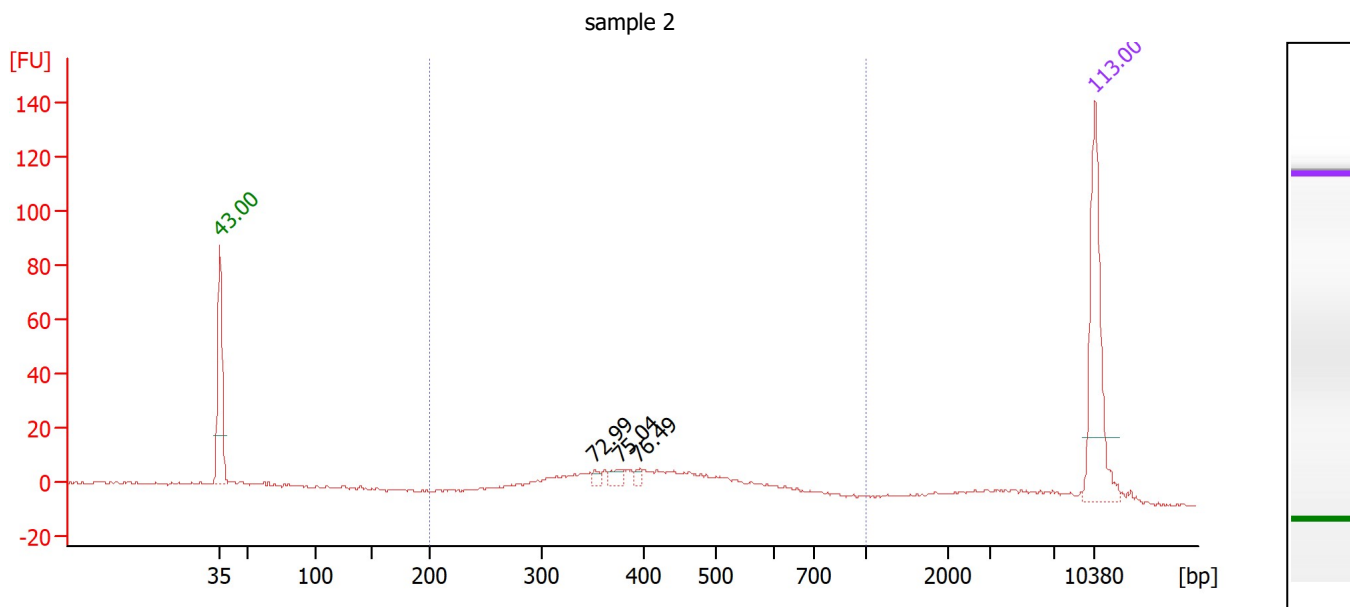| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		352	507.66	2,182.5	
3		369	67.25	276.0	
4		377	57.19	229.8	
5		412	48.54	178.5	
6		434	129.66	453.1	
7		469	45.07	145.5	
8		511	62.85	186.4	
9		552	23.27	63.9	
10		573	20.65	54.6	
11		594	8.05	20.5	
12		627	6.70	16.2	
13	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 1 :　　sample 1

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	1,725.0	88	420	27.2	1,559.42	6,154.3	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad

Created: 22/04/2021 14:43:39
Modified: 22/04/2021 15:25:50

Electropherogram Summary Continued ...

sample 2

Overall Results for sample 2 :   sample 2

Number of peaks found:	3	Corr. Area 1:	217.6
Noise:	0.5		

Peak table for sample 2 :   sample 2

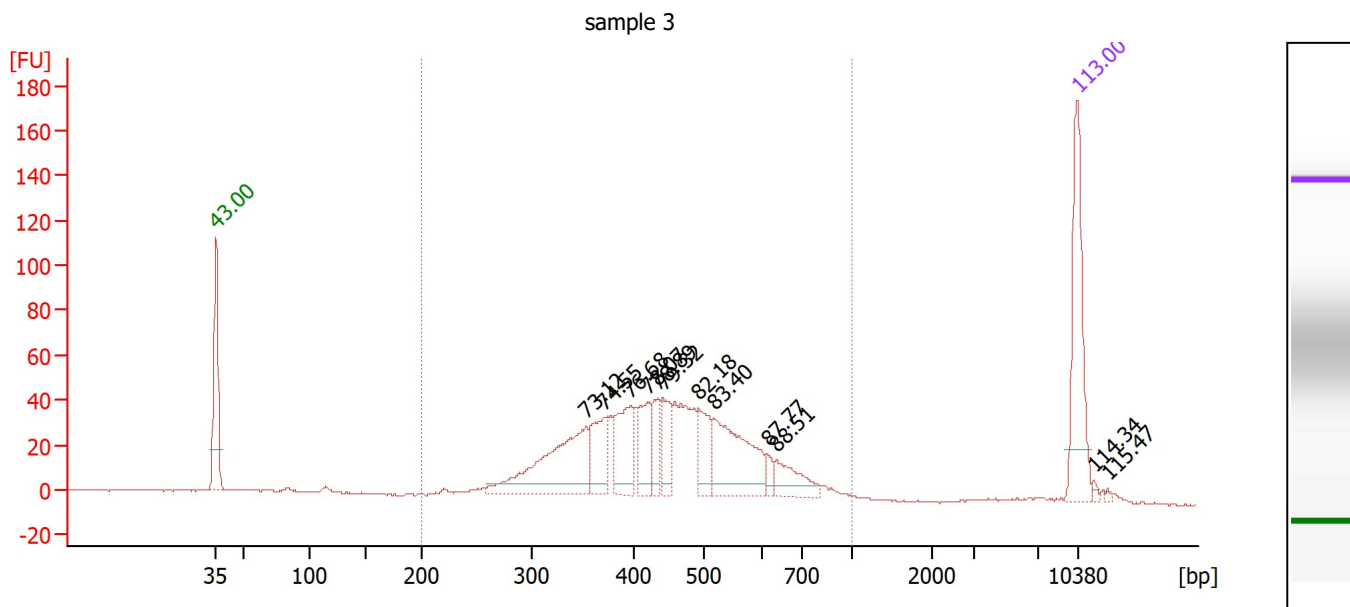| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		352	5.09	21.9	
3		377	7.74	31.1	
4		395	3.74	14.4	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 2 :   sample 2

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	217.6	72	443	28.6	179.14	676.6	◼

Assay Class:	High Sensitivity DNA Assay
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad

Created:	22/04/2021 14:43:39
Modified:	22/04/2021 15:25:50

Electropherogram Summary Continued ...

sample 3

Overall Results for sample 3 :   sample 3

Number of peaks found:	12	Corr. Area 1:	949.4
Noise:	0.4		

Peak table for sample 3 :   sample 3

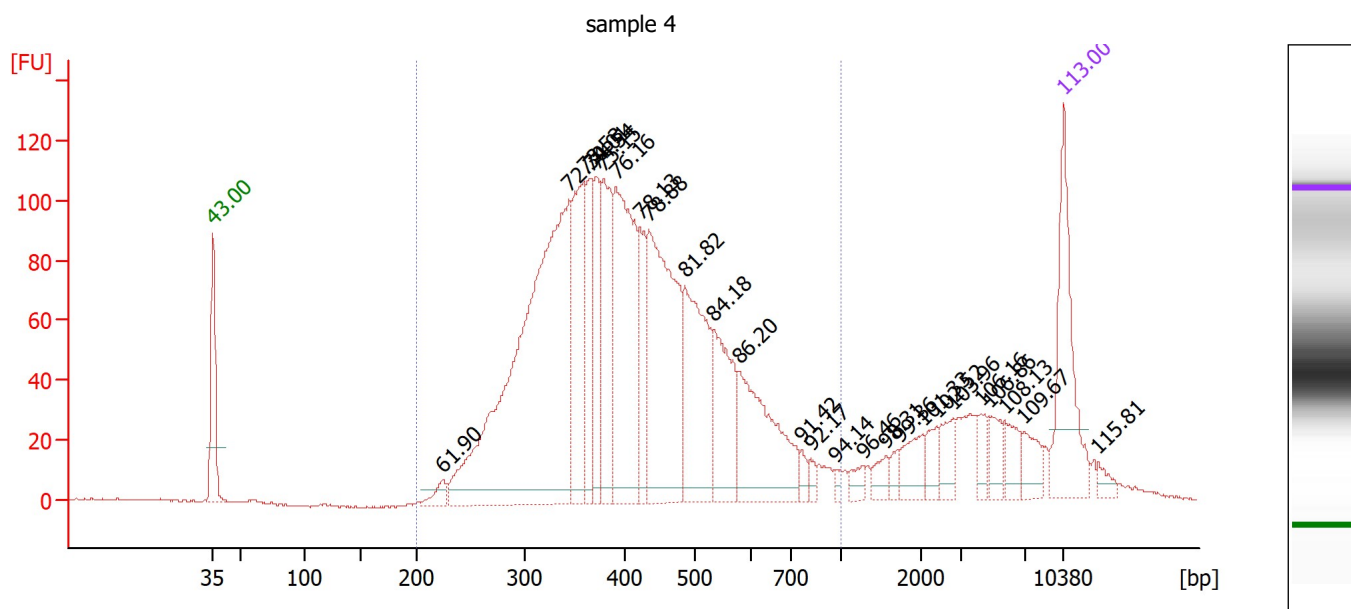| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		354	129.63	554.9	
3		371	46.53	189.8	
4		397	58.47	222.9	
5		421	40.43	145.7	
6		435	25.29	88.1	
7		442	36.50	125.0	
8		492	38.84	119.5	
9		516	97.84	287.0	
10		614	8.58	21.2	
11		636	29.97	71.4	
12	▶	10,380	75.00	10.9	Upper Marker
13		11,777	0.00	0.0	
14		12,948	0.00	0.0	

Region table for sample 3 :   sample 3

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	949.4	94	455	25.9	669.13	2,431.3	🟦

Electropherogram Summary Continued ...

sample 4

Overall Results for sample 4 :   sample 4

Number of peaks found:	26	Corr. Area 1:	2,446.3
Noise:	0.4		

Peak table for sample 4 :   sample 4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1 ◄	35	125.00	5,411.3	Lower Marker
2	224	14.22	96.2	
3	344	541.17	2,384.6	
4	359	123.23	520.3	
5	365	72.12	299.6	
6	371	61.69	251.8	
7	379	105.14	420.6	
8	391	190.62	738.5	
9	422	58.46	210.0	
10	435	214.66	748.2	
11	486	136.78	426.5	
12	533	83.84	238.2	
13	576	115.69	304.3	
14	762	7.82	15.5	
15	817	6.49	12.0	
16	963	4.07	6.4	
17	1,278	8.61	10.2	
18	1,560	10.67	10.4	
19	1,720	6.86	6.0	
20	2,042	20.57	15.3	
21	2,393	13.18	8.3	
22	2,821	17.71	9.5	
23	4,226	11.11	4.0	
24	4,768	15.31	4.9	
25	5,751	16.33	4.3	
26	6,937	18.10	4.0	

Assay Class: High Sensitivity DNA Assay   Created: 22/04/2021 14:43:39
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad   Modified: 22/04/2021 15:25:50

Electropherogram Summary Continued ...

... Peak table for sample 4 :   sample 4

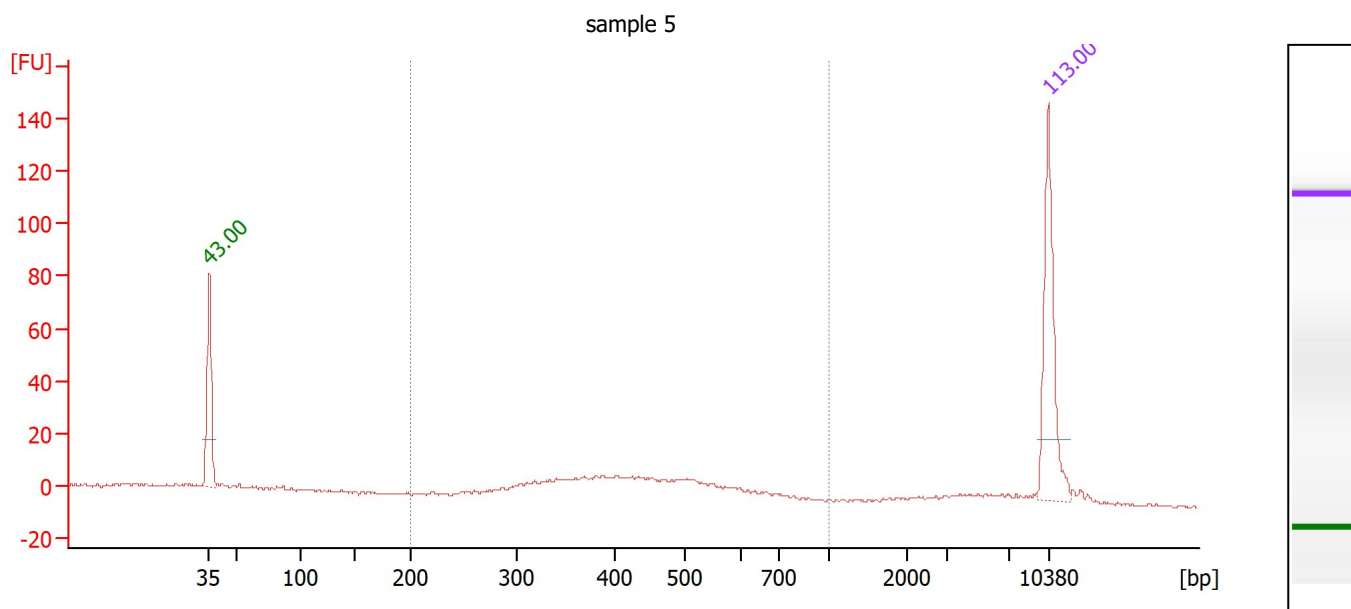| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	▶ 10,380	75.00	10.9	Upper Marker
28	13,298	0.00	0.0	

Region table for sample 4 :   sample 4

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	2,446.3	87	423	28.4	1,743.07	6,873.0	■

Assay Class: High Sensitivity DNA Assay   Created: 22/04/2021 14:43:39
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad   Modified: 22/04/2021 15:25:50

Electropherogram Summary Continued ...

sample 5

Overall Results for sample 5 :   sample 5

Number of peaks found:	0	Corr. Area 1:	172.7
Noise:	0.6		

Peak table for sample 5 :   sample 5

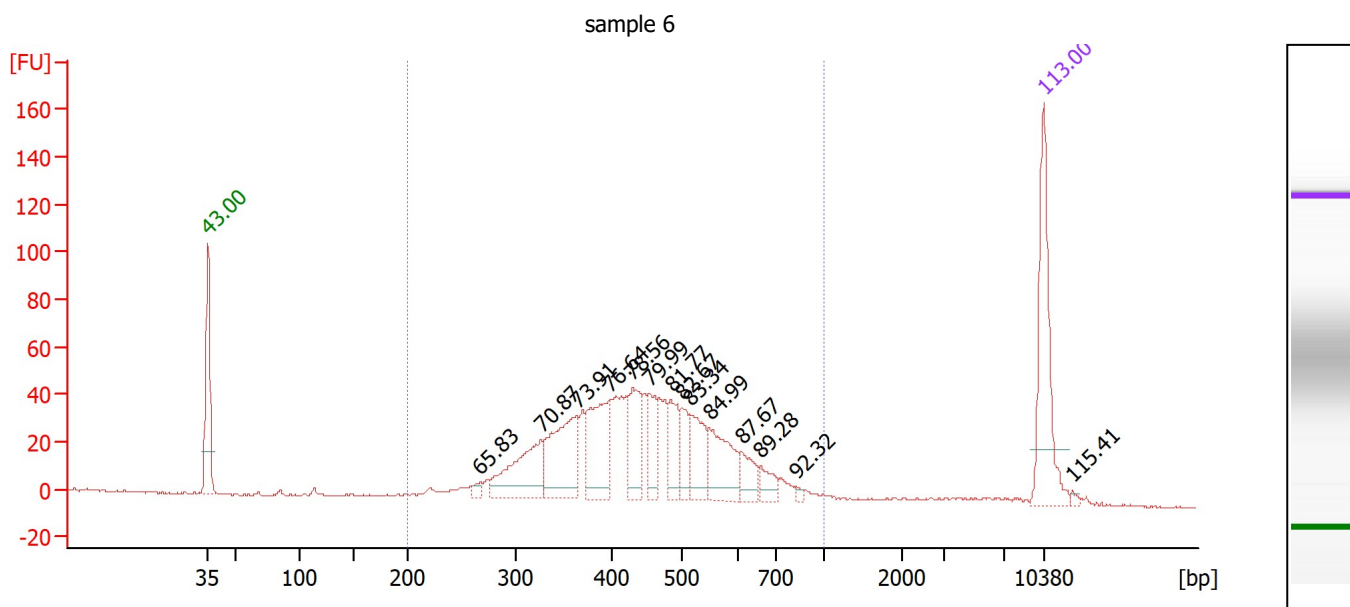| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2	►	10,380	75.00	10.9	Upper Marker

Region table for sample 5 :   sample 5

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	172.7	69	442	24.6	147.90	548.3	■

Electropherogram Summary Continued ...

sample 6

Overall Results for sample 6 :   sample 6

Number of peaks found:	14	Corr. Area 1:	970.4
Noise:	0.4		

Peak table for sample 6 :   sample 6

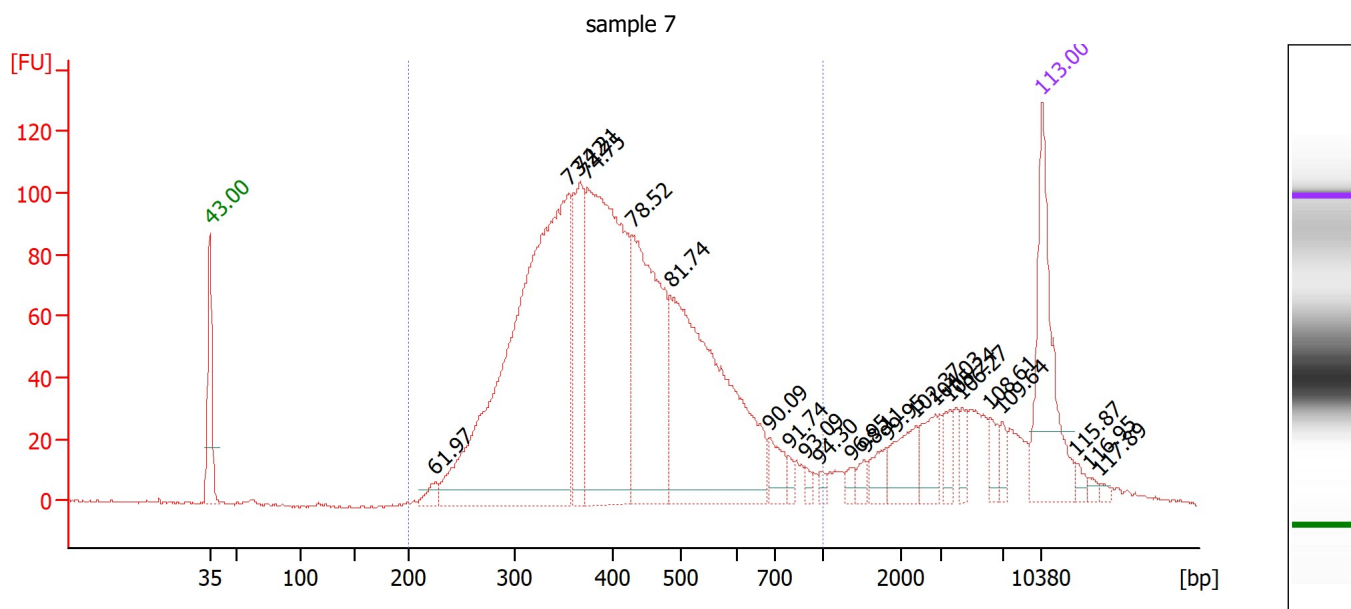| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		268	6.00	33.9	
3		326	78.91	366.3	
4		364	90.66	377.8	
5		397	78.46	299.5	
6		429	48.83	172.4	
7		454	33.61	112.2	
8		485	35.17	109.8	
9		501	25.07	75.8	
10		515	45.03	132.4	
11		550	53.14	146.3	
12		611	21.76	54.0	
13		660	15.32	35.2	
14		828	2.33	4.3	
15	▶	10,380	75.00	10.9	Upper Marker
16		12,887	0.00	0.0	

Region table for sample 6 :   sample 6

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	970.4	96	452	25.9	692.56	2,533.1	■

Assay Class:　　　High Sensitivity DNA Assay
Data Path:　　　　C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad

Created:　　22/04/2021 14:43:39
Modified:　22/04/2021 15:25:50

Electropherogram Summary Continued ...

sample 7

Overall Results for sample 7 :　　sample 7

Number of peaks found:	22	Corr. Area 1:	2,350.0
Noise:	0.5		

Peak table for sample 7 :　　sample 7

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		225	11.56	78.0	
3		355	533.67	2,276.6	
4		367	95.36	393.4	
5		374	332.38	1,347.2	
6		428	195.41	691.1	
7		485	296.02	925.3	
8		685	19.92	44.1	
9		786	5.51	10.6	
10		885	4.48	7.7	
11		975	4.36	6.8	
12		1,352	5.04	5.6	
13		1,530	6.49	6.4	
14		1,811	12.70	10.6	
15		2,350	25.68	16.6	
16		2,840	19.77	10.5	
17		3,519	11.33	4.9	
18		4,315	7.89	2.8	
19		6,117	9.47	2.3	
20		6,914	6.99	1.5	
21	▶	10,380	75.00	10.9	Upper Marker
22		13,363	0.00	0.0	
23		14,482	0.00	0.0	
24		15,461	0.00	0.0	

| Assay Class: | High Sensitivity DNA Assay | Created: | 22/04/2021 14:43:39 |
| Data Path: | C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad | Modified: | 22/04/2021 15:25:50 |

Electropherogram Summary Continued ...

... Region table for sample 7 :   sample 7

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	2,350.0	85	423	28.9	1,512.61	5,976.0	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad

Created: 22/04/2021 14:43:39
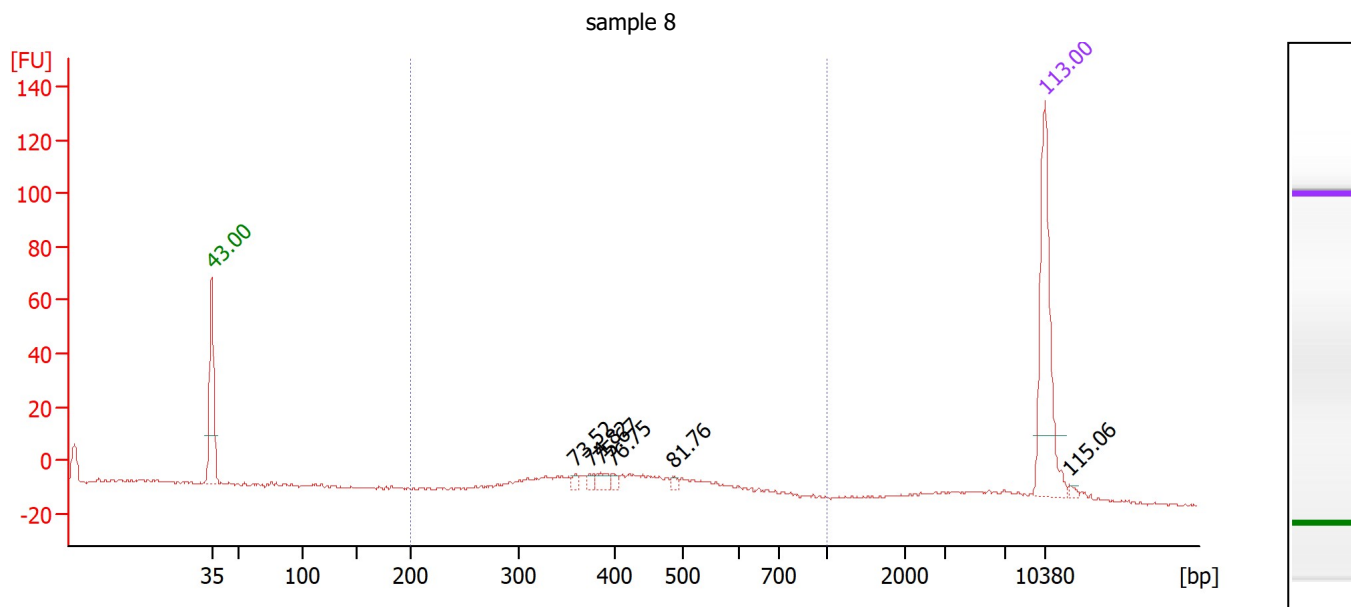Modified: 22/04/2021 15:25:50

Electropherogram Summary Continued ...

sample 8

Overall Results for sample 8 :   sample 8

Number of peaks found:	6		Corr. Area 1:	92.5
Noise:	0.6			

Peak table for sample 8 :   sample 8

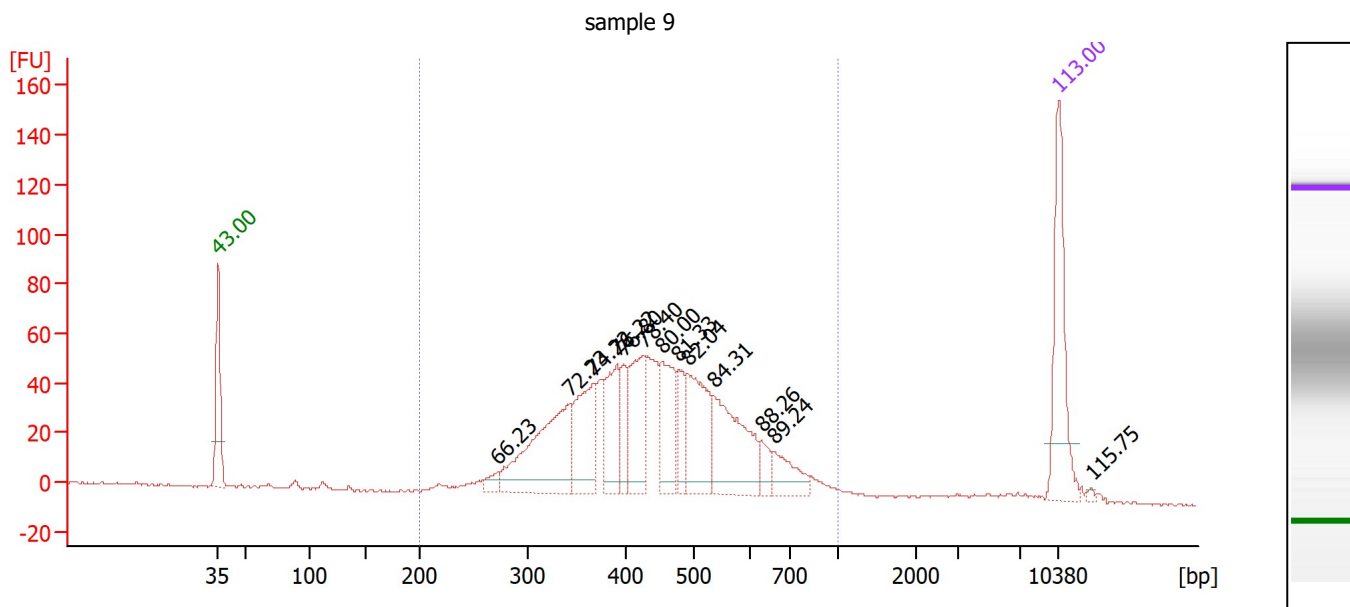| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		359	3.86	16.3	
3		375	3.91	15.8	
4		385	8.12	32.0	
5		398	4.33	16.5	
6		485	3.19	10.0	
7	▶	10,380	75.00	10.9	Upper Marker
8		12,523	0.00	0.0	

Region table for sample 8 :   sample 8

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	92.5	76	434	19.3	76.01	278.1	■

Assay Class: High Sensitivity DNA Assay   Created: 22/04/2021 14:43:39
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad   Modified: 22/04/2021 15:25:50

Electropherogram Summary Continued ...

sample 9

Overall Results for sample 9 :   sample 9

Number of peaks found:	13	Corr. Area 1:	1,190.7
Noise:	0.6		

Peak table for sample 9 :   sample 9

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		272	11.34	63.1	
3		343	147.57	651.9	
4		367	82.66	340.9	
5		392	68.31	264.1	
6		399	28.83	109.5	
7		426	72.39	257.3	
8		454	68.25	227.7	
9		478	32.09	101.8	
10		490	86.33	267.0	
11		536	102.18	288.9	
12		629	15.87	38.2	
13		659	30.06	69.1	
14	▶	10,380	75.00	10.9	Upper Marker
15		13,242	0.00	0.0	

Region table for sample 9 :   sample 9

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	1,190.7	96	454	26.3	875.97	3,190.6	■

| Assay Class: | High Sensitivity DNA Assay | Created: | 22/04/2021 14:43:39 |
| Data Path: | C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad | Modified: | 22/04/2021 15:25:50 |

Electropherogram Summary Continued ...
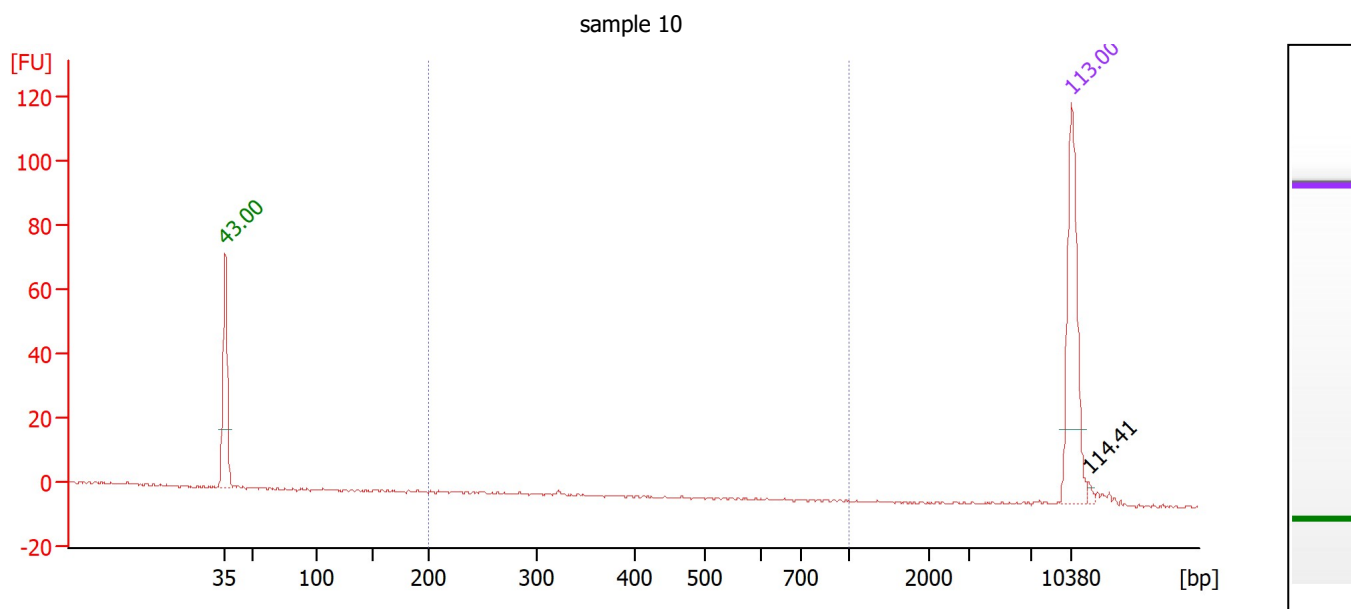
sample 10

Overall Results for sample 10 :   sample 10

| Number of peaks found: | 1 | Corr. Area 1: | 0.3 |
| Noise: | 0.4 | | |

Peak table for sample 10 :   sample 10

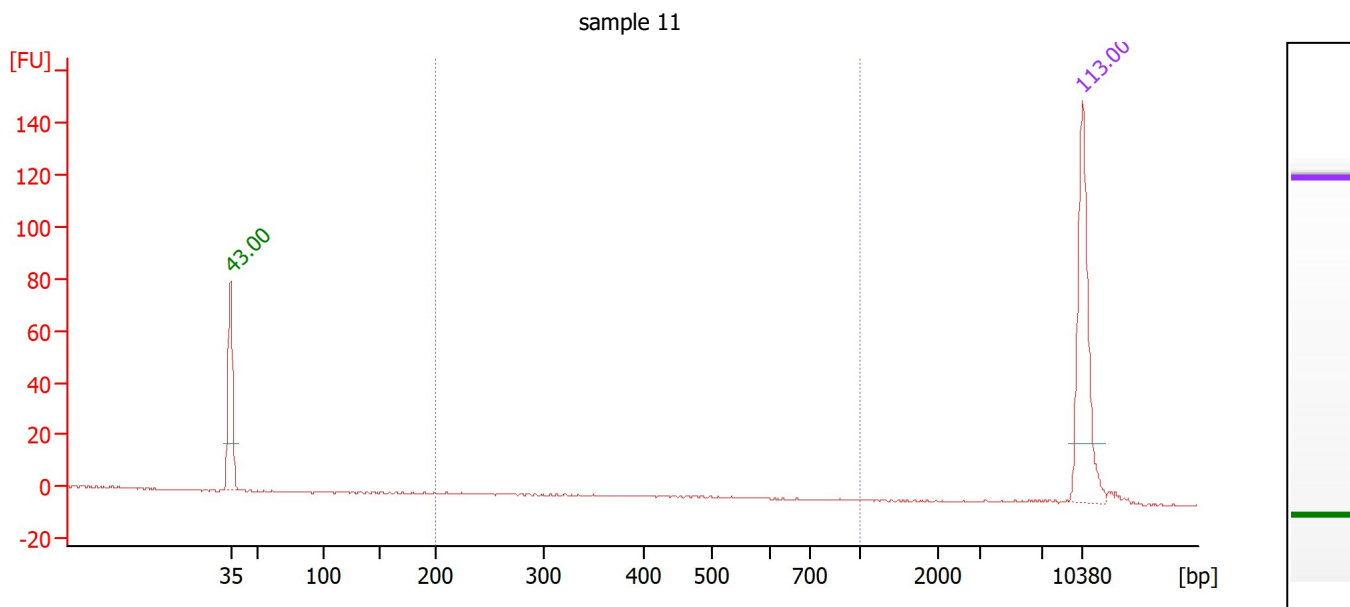| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	▶	10,380	75.00	10.9	Upper Marker
3		11,847	0.00	0.0	

Region table for sample 10 :   sample 10

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	0.3	3	330	19.7	0.28	1.3	🟦

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad

Created: 22/04/2021 14:43:39
Modified: 22/04/2021 15:25:50

Electropherogram Summary Continued ...

sample 11

Overall Results for sample 11 :   sample 11

Number of peaks found:	0	Corr. Area 1:	2.7
Noise:	0.3		

Peak table for sample 11 :   sample 11

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 11 :   sample 11

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	2.7	19	456	31.3	2.12	8.0	■

Assay Class:	High Sensitivity DNA Assay
Data Path:	C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-04-22_14-43-40.xad

Created: 22/04/2021 14:43:39
Modified: 22/04/2021 15:25:50

Gel Image