

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-24\2017-10-24\_001.xad

Created: 10/24/2017 1:28:10 PM  
Modified: 10/24/2017 2:15:22 PM

**Electrophoresis File Run Summary**

Instrument Information:

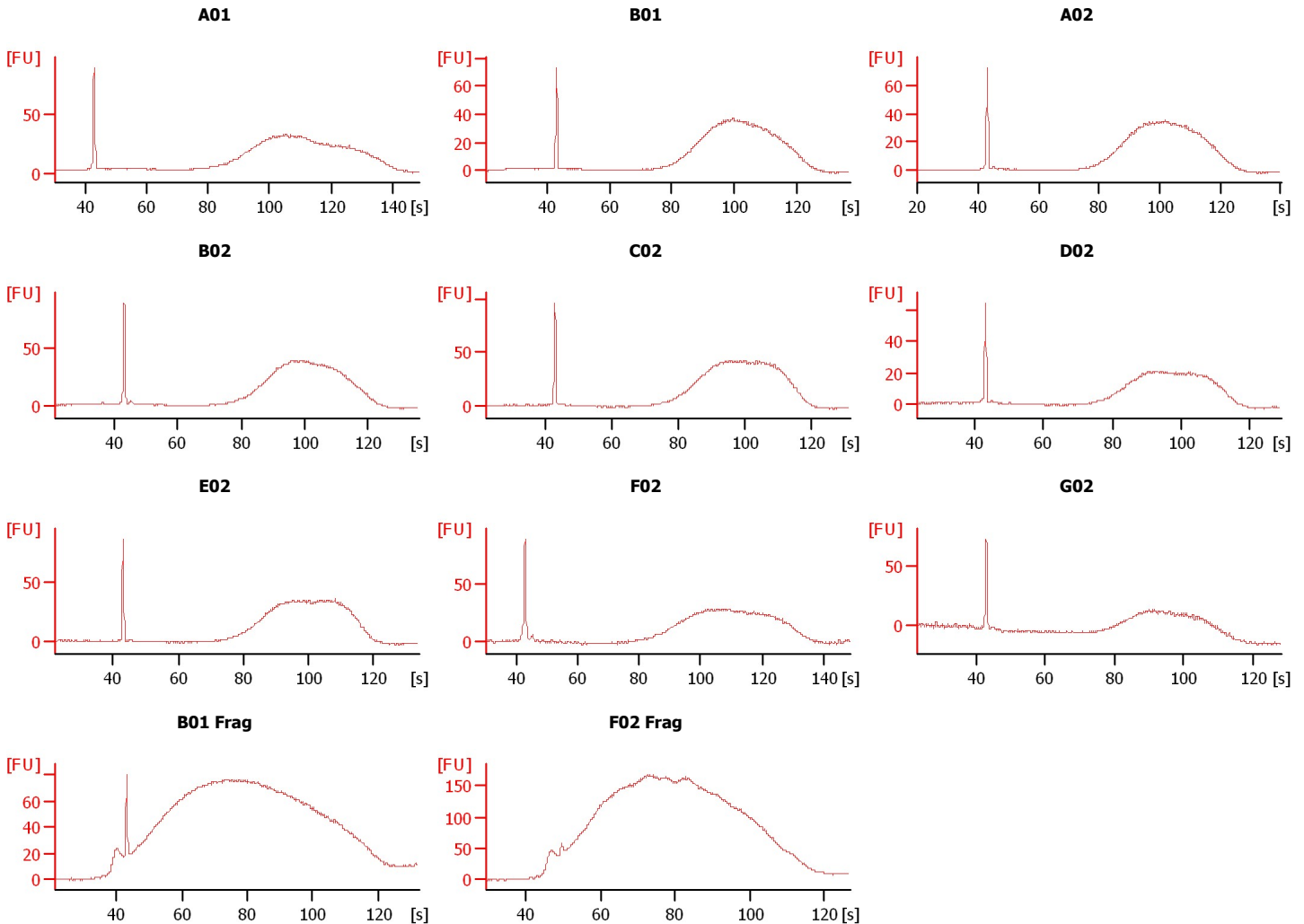
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\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
A01		<input type="checkbox"/>	✓			
B01		<input type="checkbox"/>	✓			
A02		<input type="checkbox"/>	✓			
B02		<input type="checkbox"/>	✓			
C02		<input type="checkbox"/>	✓			
D02		<input type="checkbox"/>	✓			
E02		<input type="checkbox"/>	✓			
F02		<input type="checkbox"/>	✓			
G02		<input type="checkbox"/>	✓			
B01 Frag		<input type="checkbox"/>	✓			
F02 Frag		<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/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

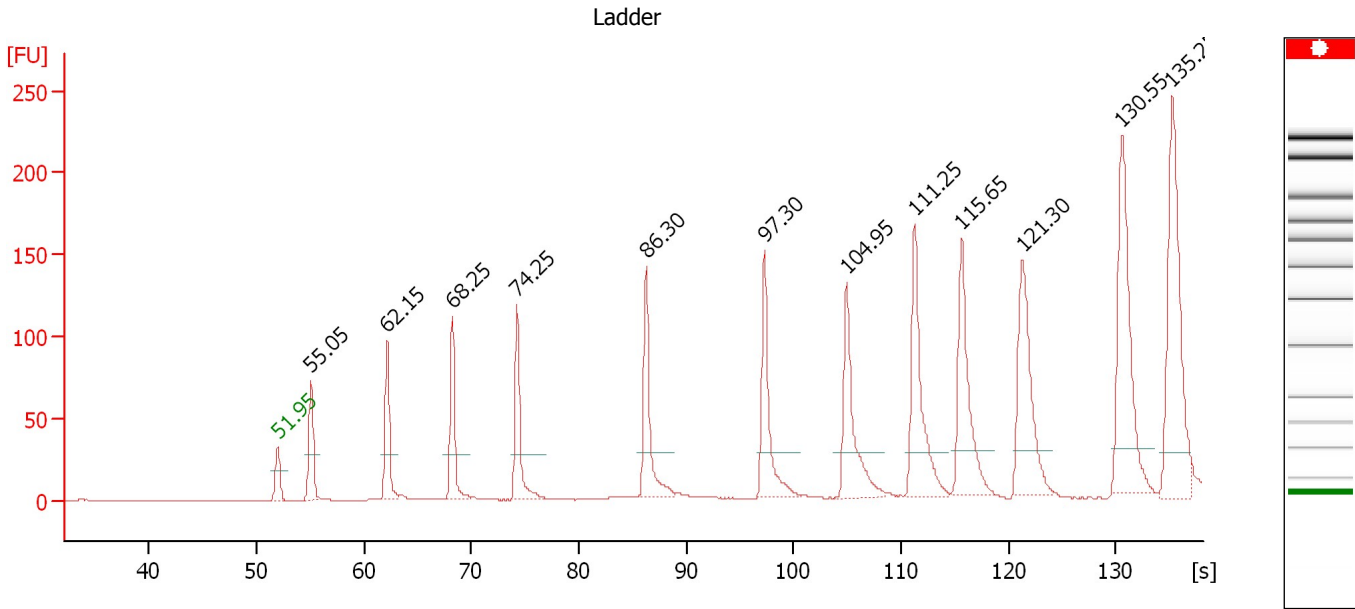
**Ladder**

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

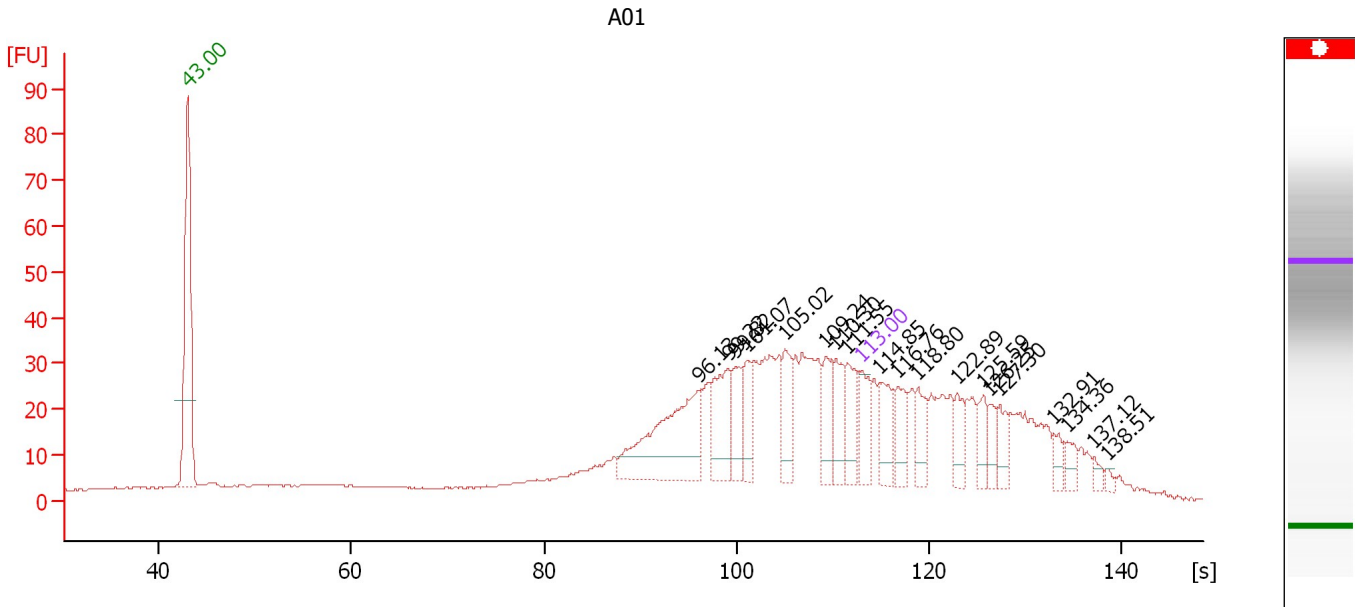
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.95
2	0	0.00	0.0	Ladder Peak	55.05
3	0	0.00	0.0	Ladder Peak	62.15
4	0	0.00	0.0	Ladder Peak	68.25
5	0	0.00	0.0	Ladder Peak	74.25
6	0	0.00	0.0	Ladder Peak	86.30
7	0	0.00	0.0	Ladder Peak	97.30
8	0	0.00	0.0	Ladder Peak	104.95
9	0	0.00	0.0	Ladder Peak	111.25
10	0	0.00	0.0	Ladder Peak	115.65
11	0	0.00	0.0	Ladder Peak	121.30
12	0	0.00	0.0	Ladder Peak	130.55
13	0	0.00	0.0	Ladder Peak	135.25

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A01**

Number of peaks found: 19                      Noise: 0.2

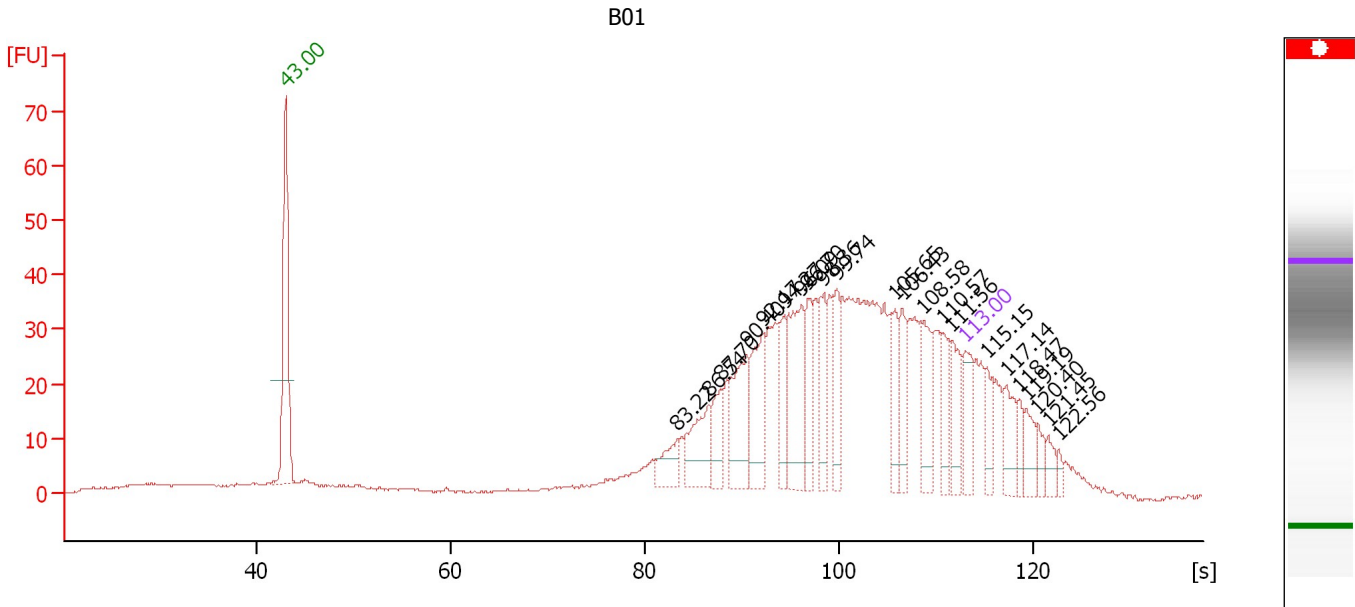
**Peak table for sample 1 : A01**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		96.13
3	0	0.00	0.0		99.22
4	0	0.00	0.0		99.82
5	0	0.00	0.0		101.07
6	0	0.00	0.0		105.02
7	0	0.00	0.0		109.24
8	0	0.00	0.0		110.30
9	0	0.00	0.0		111.55
10	0	0.00	0.0	Upper Marker	113.00
11	0	0.00	0.0		114.85
12	0	0.00	0.0		116.76
13	0	0.00	0.0		118.80
14	0	0.00	0.0		122.89
15	0	0.00	0.0		125.59
16	0	0.00	0.0		126.25
17	0	0.00	0.0		127.30
18	0	0.00	0.0		132.91
19	0	0.00	0.0		134.36
20	0	0.00	0.0		137.12
21	0	0.00	0.0		138.51

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : B01**

Number of peaks found: 22                      Noise: 0.2

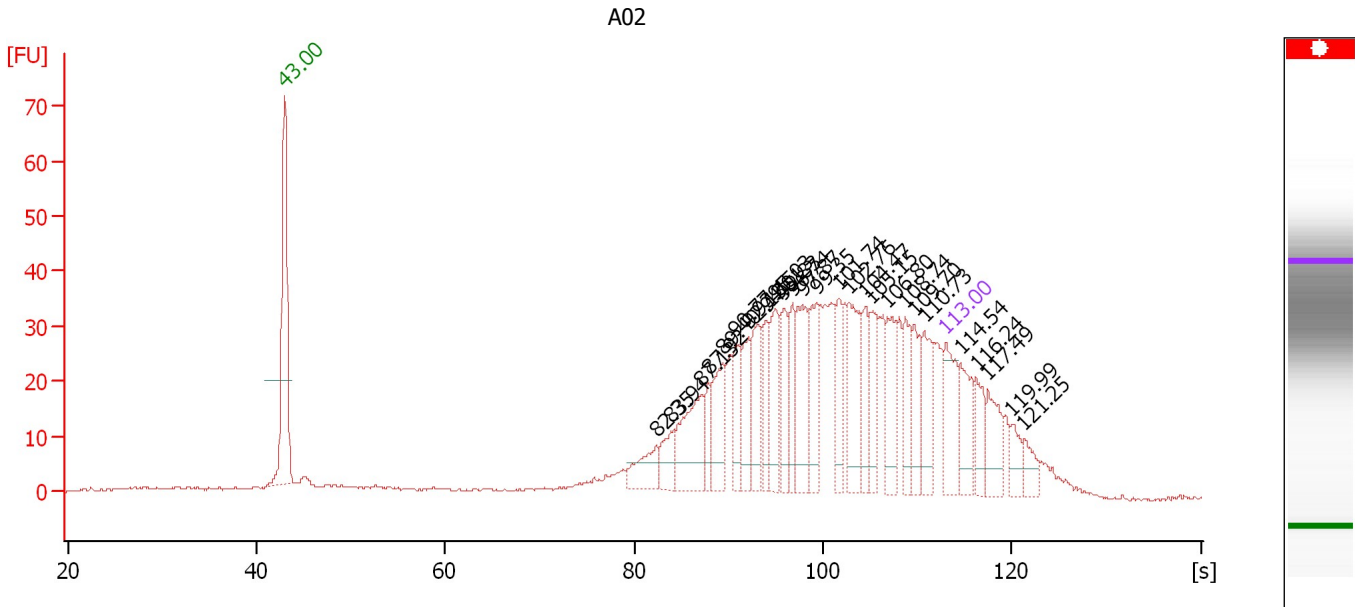
**Peak table for sample 2 : B01**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		83.22
3	0	0.00	0.0		86.54
4	0	0.00	0.0		87.70
5	0	0.00	0.0		90.40
6	0	0.00	0.0		92.17
7	0	0.00	0.0		94.27
8	0	0.00	0.0		96.09
9	0	0.00	0.0		96.70
10	0	0.00	0.0		98.36
11	0	0.00	0.0		99.74
12	0	0.00	0.0		105.65
13	0	0.00	0.0		106.43
14	0	0.00	0.0		108.58
15	0	0.00	0.0		110.57
16	0	0.00	0.0		111.56
17	0	0.00	0.0	Upper Marker	113.00
18	0	0.00	0.0		115.15
19	0	0.00	0.0		117.14
20	0	0.00	0.0		118.47
21	0	0.00	0.0		119.19
22	0	0.00	0.0		120.40
23	0	0.00	0.0		121.45
24	0	0.00	0.0		122.56

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A02**

Number of peaks found: 27                      Noise: 0.2

**Peak table for sample 3 : A02**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		82.35
3	0	0.00	0.0		83.94
4	0	0.00	0.0		87.13
5	0	0.00	0.0		87.92
6	0	0.00	0.0		89.40
7	0	0.00	0.0		90.77
8	0	0.00	0.0		92.13
9	0	0.00	0.0		93.15
10	0	0.00	0.0		94.01
11	0	0.00	0.0		95.03
12	0	0.00	0.0		95.83
13	0	0.00	0.0		96.74
14	0	0.00	0.0		97.87
15	0	0.00	0.0		99.35
16	0	0.00	0.0		101.74
17	0	0.00	0.0		102.76
18	0	0.00	0.0		104.47
19	0	0.00	0.0		105.15
20	0	0.00	0.0		106.80
21	0	0.00	0.0		108.74
22	0	0.00	0.0		109.70
23	0	0.00	0.0		110.73
24	0	0.00	0.0	Upper Marker	113.00
25	0	0.00	0.0		114.54
26	0	0.00	0.0		116.24
27	0	0.00	0.0		117.49

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**Electropherogram Summary Continued ...****... Peak table for sample 3 : A02**

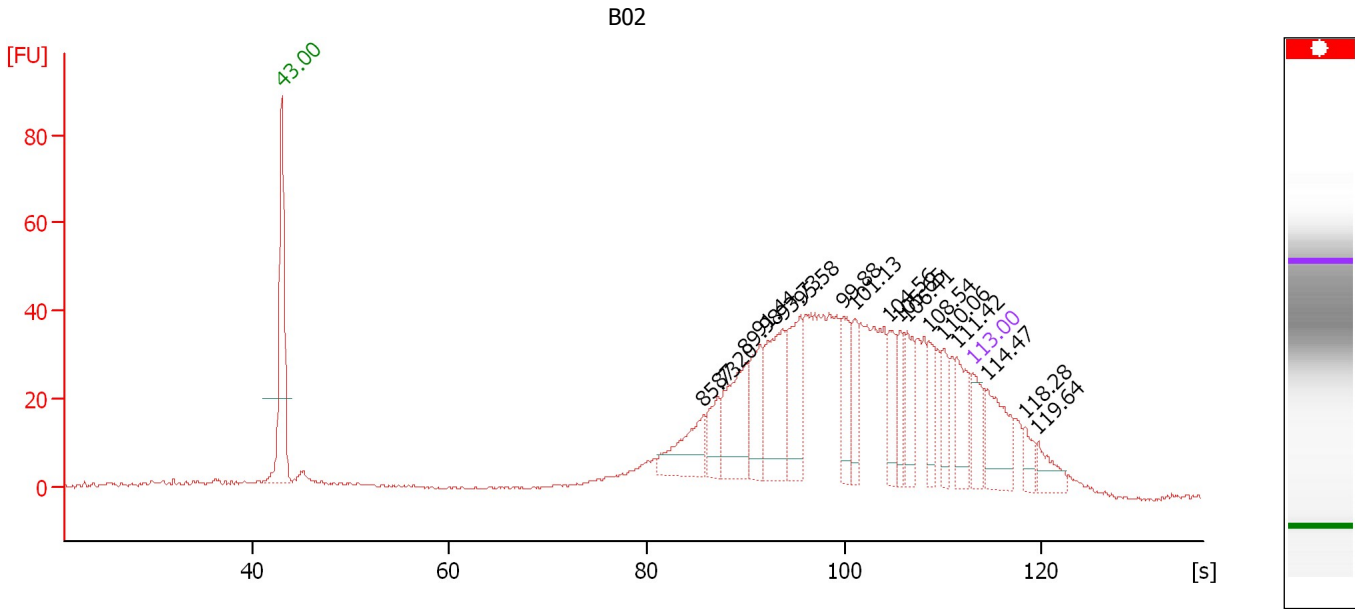
Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		119.99
29	0	0.00	0.0		121.25



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



**Overall Results for sample 4 : B02**

Number of peaks found: 17                      Noise: 0.2

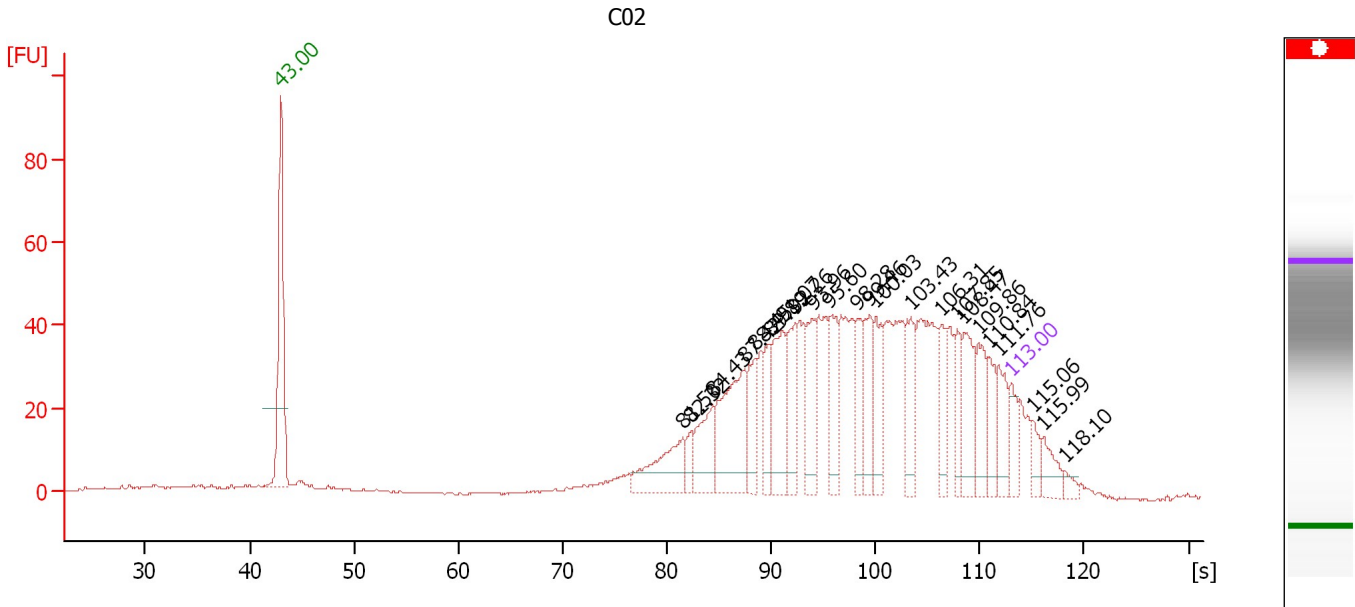
**Peak table for sample 4 : B02**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		85.73
3	0	0.00	0.0		87.20
4	0	0.00	0.0		89.98
5	0	0.00	0.0		91.44
6	0	0.00	0.0		93.73
7	0	0.00	0.0		95.58
8	0	0.00	0.0		99.88
9	0	0.00	0.0		101.13
10	0	0.00	0.0		104.56
11	0	0.00	0.0		105.65
12	0	0.00	0.0		106.41
13	0	0.00	0.0		108.54
14	0	0.00	0.0		110.06
15	0	0.00	0.0		111.42
16	0	0.00	0.0	Upper Marker	113.00
17	0	0.00	0.0		114.47
18	0	0.00	0.0		118.28
19	0	0.00	0.0		119.64

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : C02**

Number of peaks found: 23                      Noise: 0.2

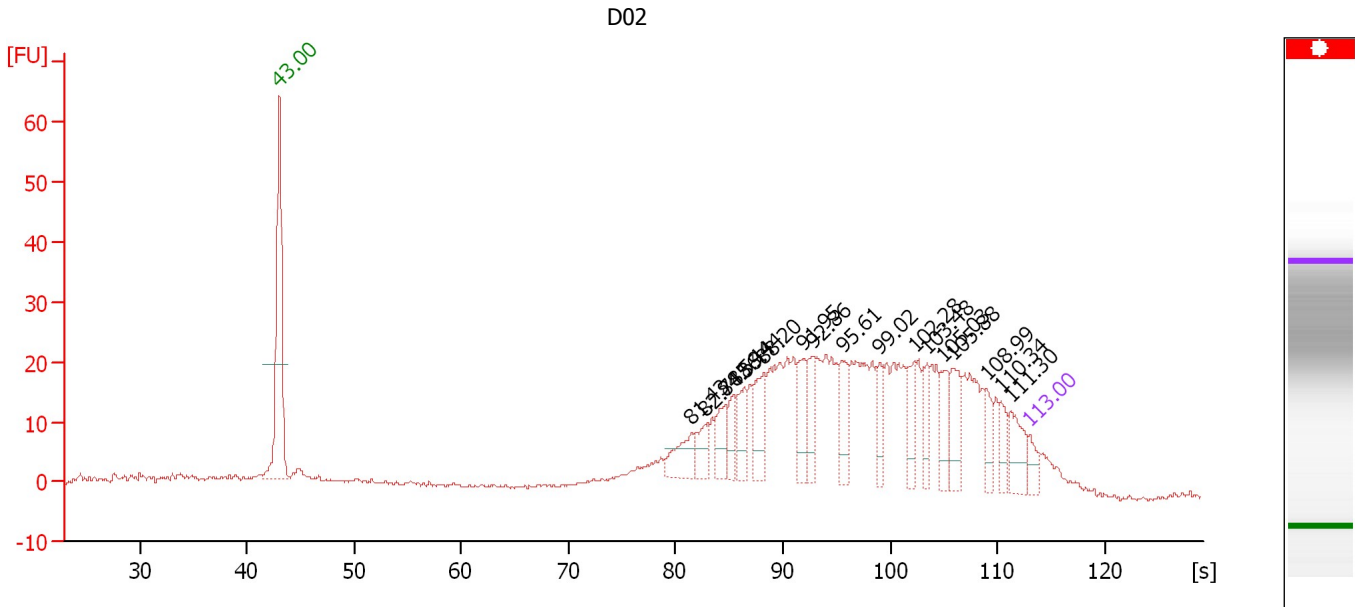
**Peak table for sample 5 : C02**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		81.50
3	0	0.00	0.0		82.32
4	0	0.00	0.0		84.43
5	0	0.00	0.0		87.42
6	0	0.00	0.0		88.45
7	0	0.00	0.0		89.89
8	0	0.00	0.0		91.07
9	0	0.00	0.0		92.26
10	0	0.00	0.0		93.96
11	0	0.00	0.0		95.60
12	0	0.00	0.0		98.28
13	0	0.00	0.0		99.46
14	0	0.00	0.0		100.03
15	0	0.00	0.0		103.43
16	0	0.00	0.0		106.31
17	0	0.00	0.0		107.85
18	0	0.00	0.0		108.47
19	0	0.00	0.0		109.86
20	0	0.00	0.0		110.84
21	0	0.00	0.0		111.76
22	0	0.00	0.0	Upper Marker	113.00
23	0	0.00	0.0		115.06
24	0	0.00	0.0		115.99
25	0	0.00	0.0		118.10

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : D02**

Number of peaks found: 17                      Noise: 0.2

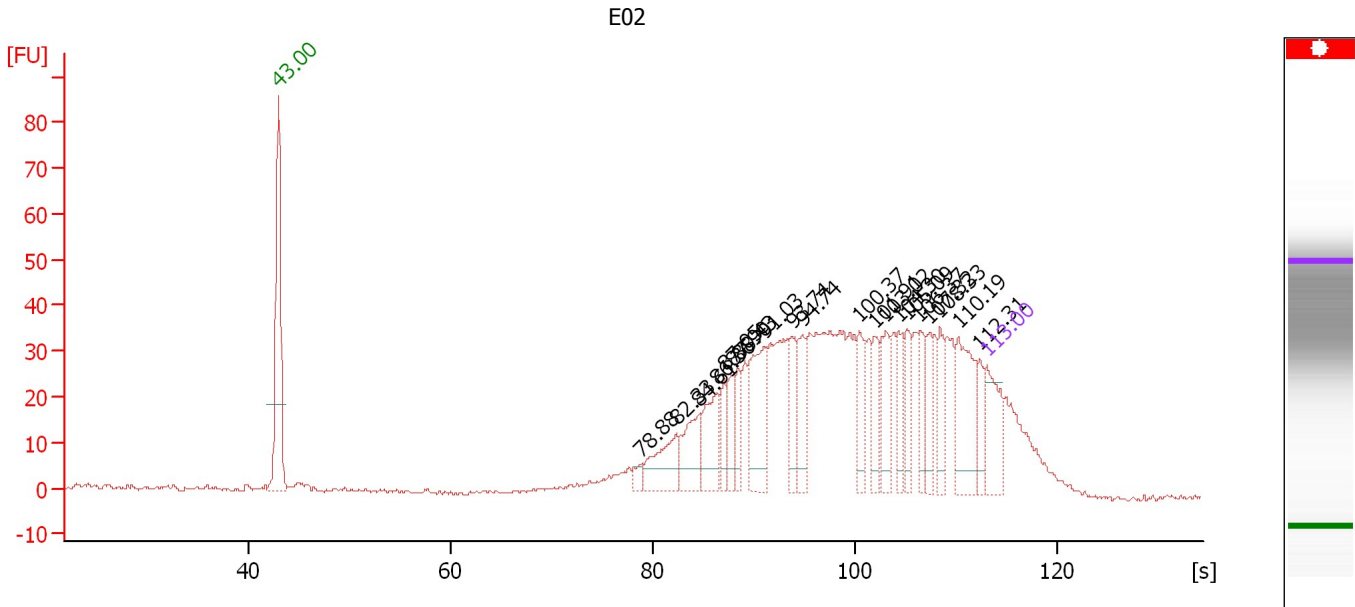
**Peak table for sample 6 : D02**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		81.43
3	0	0.00	0.0		82.74
4	0	0.00	0.0		84.59
5	0	0.00	0.0		85.44
6	0	0.00	0.0		86.44
7	0	0.00	0.0		88.20
8	0	0.00	0.0		91.95
9	0	0.00	0.0		92.86
10	0	0.00	0.0		95.61
11	0	0.00	0.0		99.02
12	0	0.00	0.0		102.28
13	0	0.00	0.0		103.48
14	0	0.00	0.0		105.03
15	0	0.00	0.0		105.88
16	0	0.00	0.0		108.99
17	0	0.00	0.0		110.34
18	0	0.00	0.0		111.30
19	0	0.00	0.0	Upper Marker	113.00

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



**Overall Results for sample 7 : E02**

Number of peaks found: 20                      Noise: 0.4

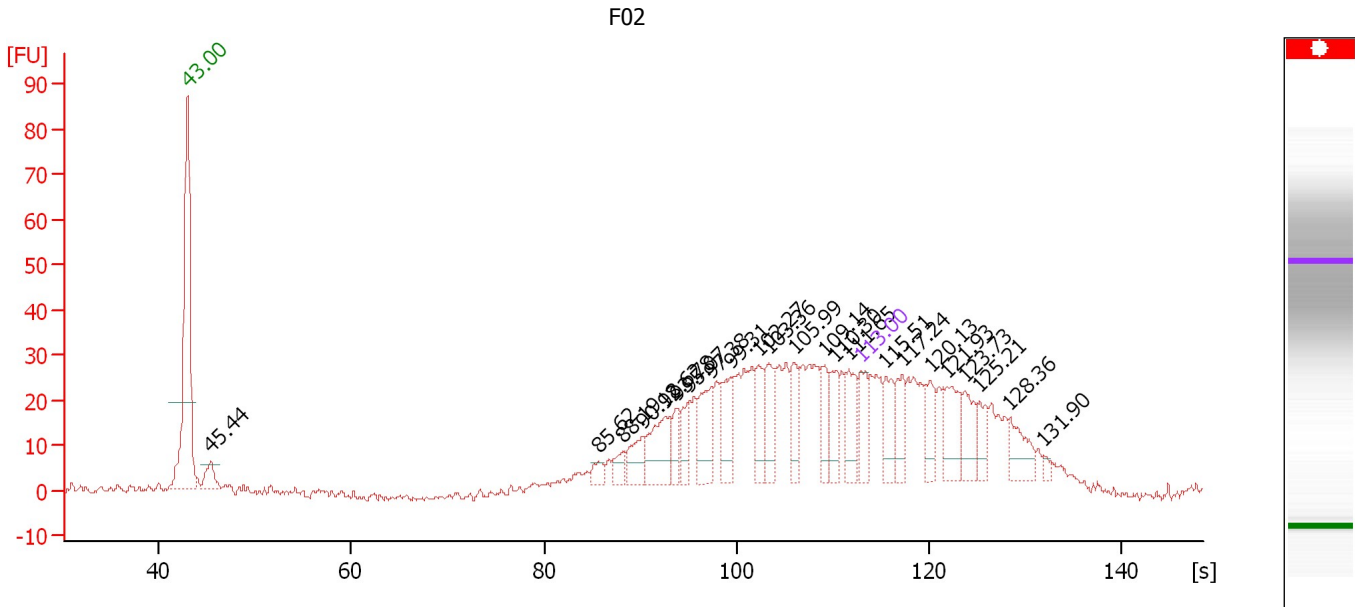
**Peak table for sample 7 : E02**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		78.88
3	0	0.00	0.0		82.33
4	0	0.00	0.0		84.61
5	0	0.00	0.0		86.36
6	0	0.00	0.0		87.05
7	0	0.00	0.0		87.90
8	0	0.00	0.0		88.43
9	0	0.00	0.0		91.03
10	0	0.00	0.0		93.74
11	0	0.00	0.0		94.74
12	0	0.00	0.0		100.37
13	0	0.00	0.0		101.91
14	0	0.00	0.0		103.02
15	0	0.00	0.0		104.30
16	0	0.00	0.0		105.09
17	0	0.00	0.0		106.37
18	0	0.00	0.0		107.32
19	0	0.00	0.0		108.33
20	0	0.00	0.0		110.19
21	0	0.00	0.0		112.31
22	0	0.00	0.0	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : F02**

Number of peaks found: 23                      Noise: 0.7

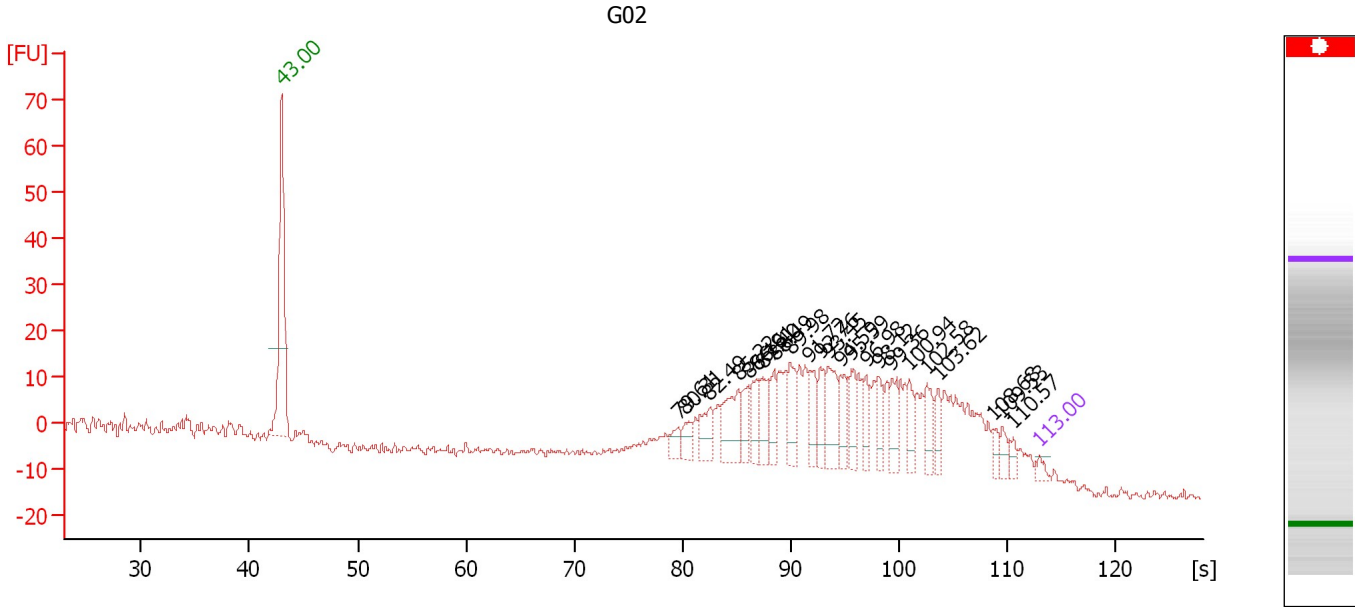
**Peak table for sample 8 : F02**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.44
3	0	0.00	0.0		85.62
4	0	0.00	0.0		88.19
5	0	0.00	0.0		90.18
6	0	0.00	0.0		92.62
7	0	0.00	0.0		93.78
8	0	0.00	0.0		95.07
9	0	0.00	0.0		97.38
10	0	0.00	0.0		99.31
11	0	0.00	0.0		102.27
12	0	0.00	0.0		103.36
13	0	0.00	0.0		105.99
14	0	0.00	0.0		109.14
15	0	0.00	0.0		110.30
16	0	0.00	0.0		111.65
17	0	0.00	0.0	Upper Marker	113.00
18	0	0.00	0.0		115.51
19	0	0.00	0.0		117.24
20	0	0.00	0.0		120.13
21	0	0.00	0.0		121.93
22	0	0.00	0.0		123.73
23	0	0.00	0.0		125.21
24	0	0.00	0.0		128.36
25	0	0.00	0.0		131.90

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : G02**

Number of peaks found: 23                      Noise: 0.6

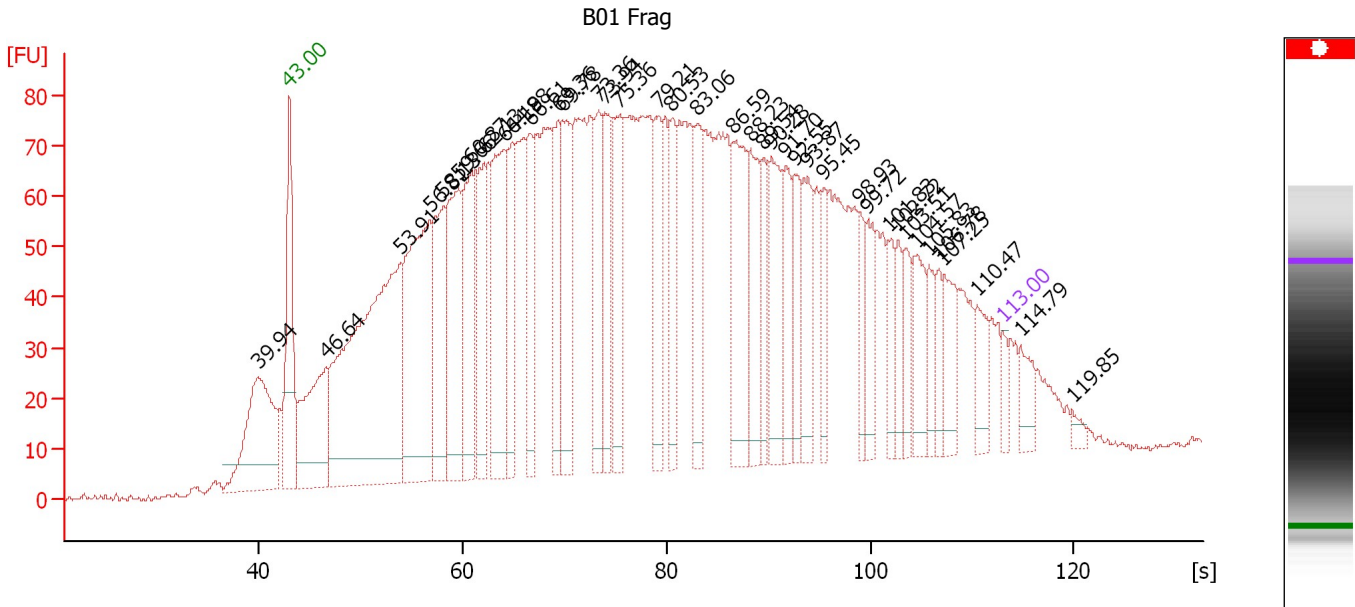
**Peak table for sample 9 : G02**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		79.61
3	0	0.00	0.0		80.31
4	0	0.00	0.0		82.49
5	0	0.00	0.0		85.22
6	0	0.00	0.0		86.16
7	0	0.00	0.0		86.91
8	0	0.00	0.0		87.40
9	0	0.00	0.0		88.49
10	0	0.00	0.0		89.98
11	0	0.00	0.0		91.72
12	0	0.00	0.0		92.76
13	0	0.00	0.0		93.45
14	0	0.00	0.0		94.59
15	0	0.00	0.0		95.59
16	0	0.00	0.0		96.98
17	0	0.00	0.0		98.12
18	0	0.00	0.0		99.36
19	0	0.00	0.0		100.94
20	0	0.00	0.0		102.58
21	0	0.00	0.0		103.62
22	0	0.00	0.0		108.68
23	0	0.00	0.0		109.53
24	0	0.00	0.0		110.57
25	0	0.00	0.0	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : B01 Frag**

Number of peaks found: 39                      Noise: 0.7

**Peak table for sample 10 : B01 Frag**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		39.94
2	0	0.00	0.0	Lower Marker	43.00
3	0	0.00	0.0		46.64
4	0	0.00	0.0		53.91
5	0	0.00	0.0		56.81
6	0	0.00	0.0		58.13
7	0	0.00	0.0		59.66
8	0	0.00	0.0		60.87
9	0	0.00	0.0		62.13
10	0	0.00	0.0		64.19
11	0	0.00	0.0		64.88
12	0	0.00	0.0		66.61
13	0	0.00	0.0		69.36
14	0	0.00	0.0		69.78
15	0	0.00	0.0		73.36
16	0	0.00	0.0		73.94
17	0	0.00	0.0		75.36
18	0	0.00	0.0		79.21
19	0	0.00	0.0		80.53
20	0	0.00	0.0		83.06
21	0	0.00	0.0		86.59
22	0	0.00	0.0		88.23
23	0	0.00	0.0		89.54
24	0	0.00	0.0		90.28
25	0	0.00	0.0		91.70
26	0	0.00	0.0		92.55
27	0	0.00	0.0		93.87

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-24\2017-10-24\_001.xad

Created: 10/24/2017 1:28:10 PM  
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**Electropherogram Summary Continued ...**

... Peak table for sample 10 :

**B01 Frag**

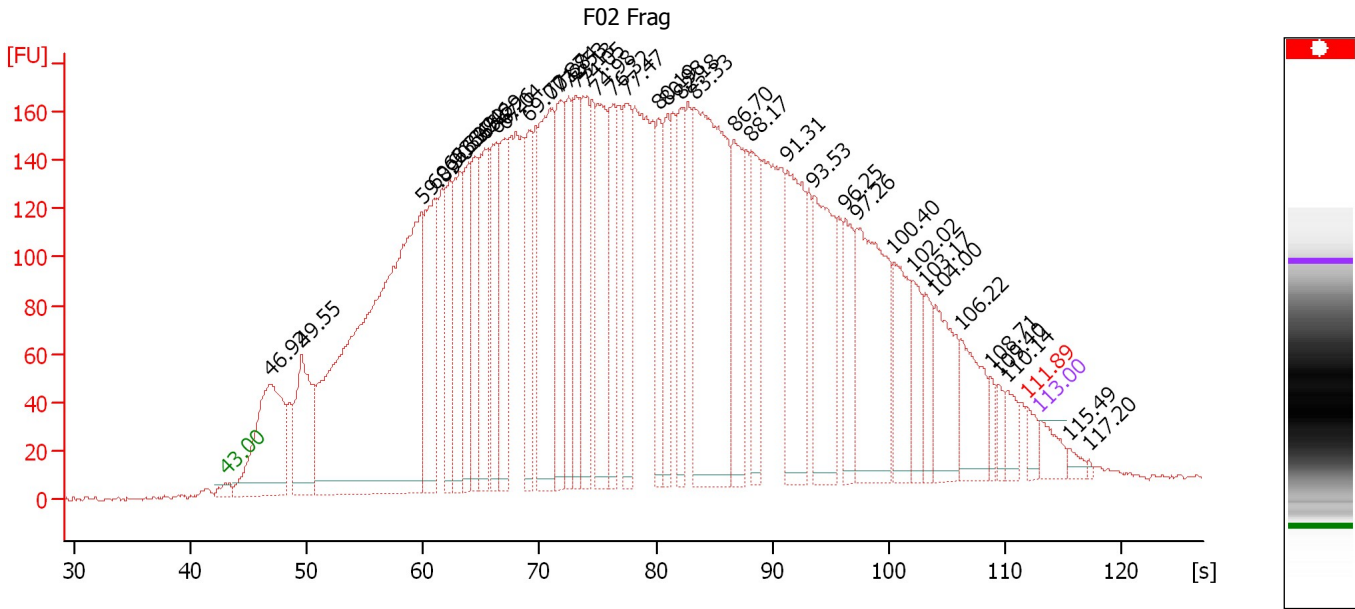
Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		95.45
29	0	0.00	0.0		98.93
30	0	0.00	0.0		99.72
31	0	0.00	0.0		101.83
32	0	0.00	0.0		102.72
33	0	0.00	0.0		103.51
34	0	0.00	0.0		104.57
35	0	0.00	0.0		105.83
36	0	0.00	0.0		106.78
37	0	0.00	0.0		107.25
38	0	0.00	0.0		110.47
39	0	0.00	0.0	Upper Marker	113.00
40	0	0.00	0.0		114.79
41	0	0.00	0.0		119.85



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-24\2017-10-24\_001.xad

Created: 10/24/2017 1:28:10 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : F02 Frag**

Number of peaks found: 40                      Noise: 1.2

**Peak table for sample 11 : F02 Frag**



Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		46.92
3	0	0.00	0.0		49.55
4	0	0.00	0.0		59.89
5	0	0.00	0.0		60.90
6	0	0.00	0.0		62.33
7	0	0.00	0.0		63.07
8	0	0.00	0.0		63.90
9	0	0.00	0.0		64.46
10	0	0.00	0.0		65.29
11	0	0.00	0.0		66.26
12	0	0.00	0.0		67.04
13	0	0.00	0.0		69.07
14	0	0.00	0.0		70.87
15	0	0.00	0.0		71.84
16	0	0.00	0.0		72.53
17	0	0.00	0.0		73.13
18	0	0.00	0.0		74.05
19	0	0.00	0.0		74.98
20	0	0.00	0.0		76.32
21	0	0.00	0.0		77.47
22	0	0.00	0.0		80.19
23	0	0.00	0.0		80.98
24	0	0.00	0.0		82.18
25	0	0.00	0.0		83.33
26	0	0.00	0.0		86.70
27	0	0.00	0.0		88.17

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-24\2017-10-24\_001.xad

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**Electropherogram Summary Continued ...**

... Peak table for sample 11 : F02 Frag

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		91.31
29	0	0.00	0.0		93.53
30	0	0.00	0.0		96.25
31	0	0.00	0.0		97.26
32	0	0.00	0.0		100.40
33	0	0.00	0.0		102.02
34	0	0.00	0.0		103.17
35	0	0.00	0.0		104.00
36	0	0.00	0.0		106.22
37	0	0.00	0.0		108.71
38	0	0.00	0.0		109.40
39	0	0.00	0.0		110.14
40	 0	0.00	0.0	excluded peak	111.89
41	 0	0.00	0.0	Upper Marker	113.00
42	0	0.00	0.0		115.49
43	0	0.00	0.0		117.20

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-24\2017-10-24\_001.xad

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**Gel Image**