

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-17\2018-05-17_001.xad

Created: 5/17/2018 11:31:56 AM
Modified: 5/17/2018 12:07:55 PM

Electrophoresis File Run Summary

Instrument Information:

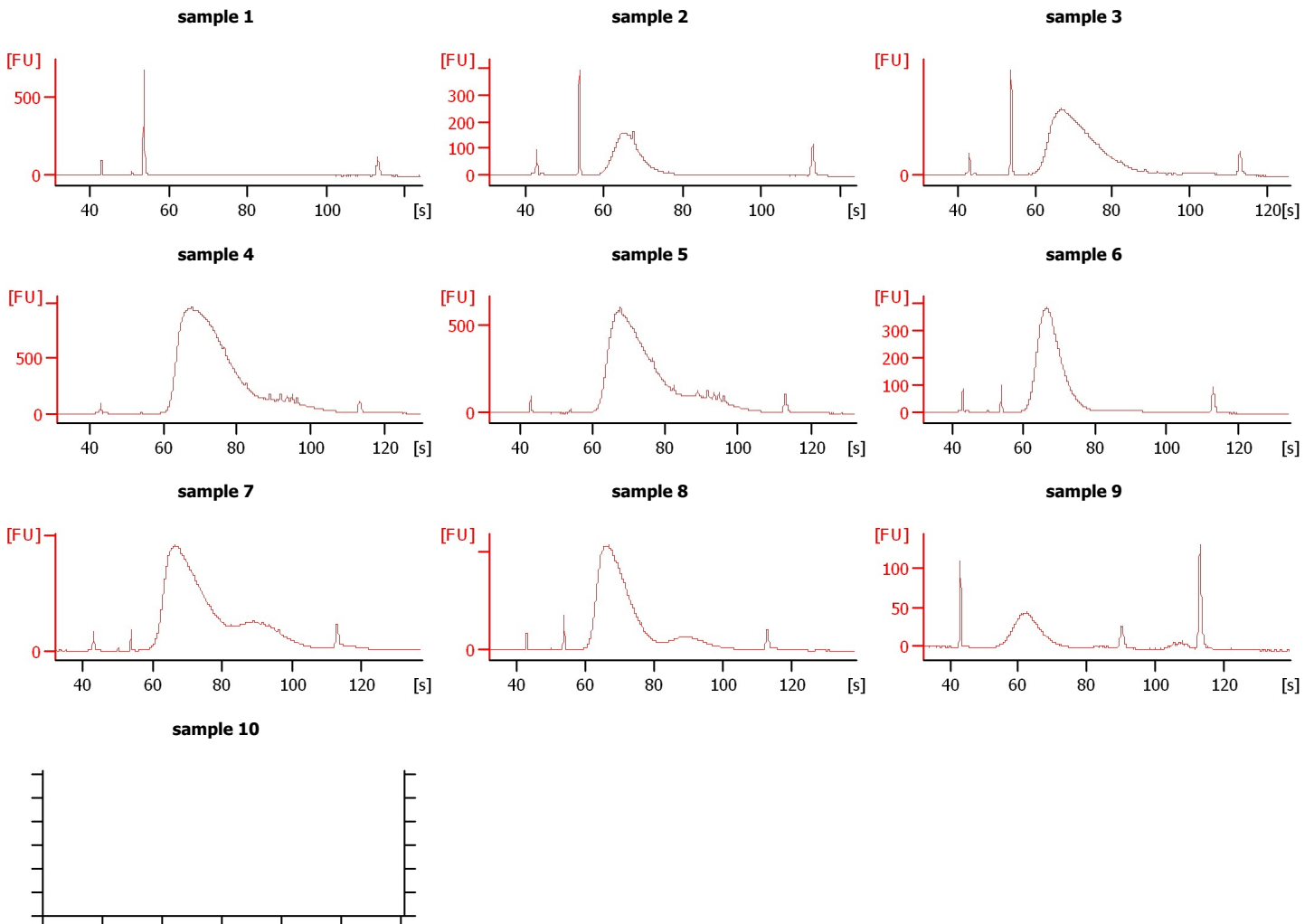
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\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
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✗			
sample 11		<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

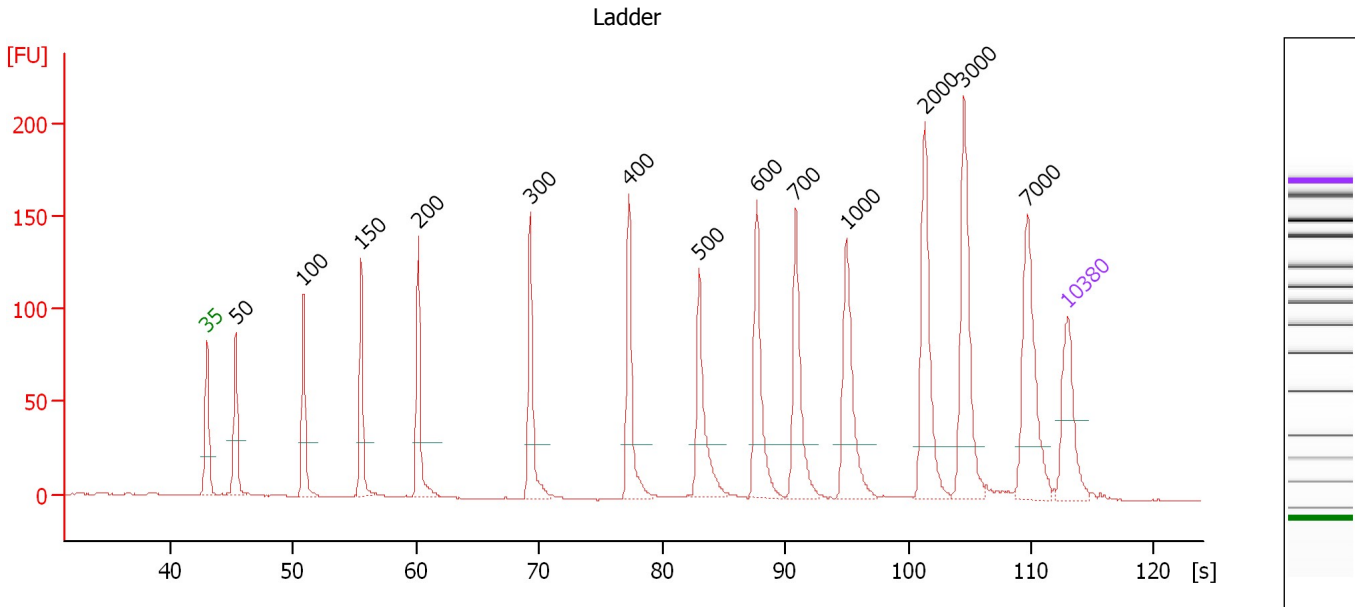
Ladder

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

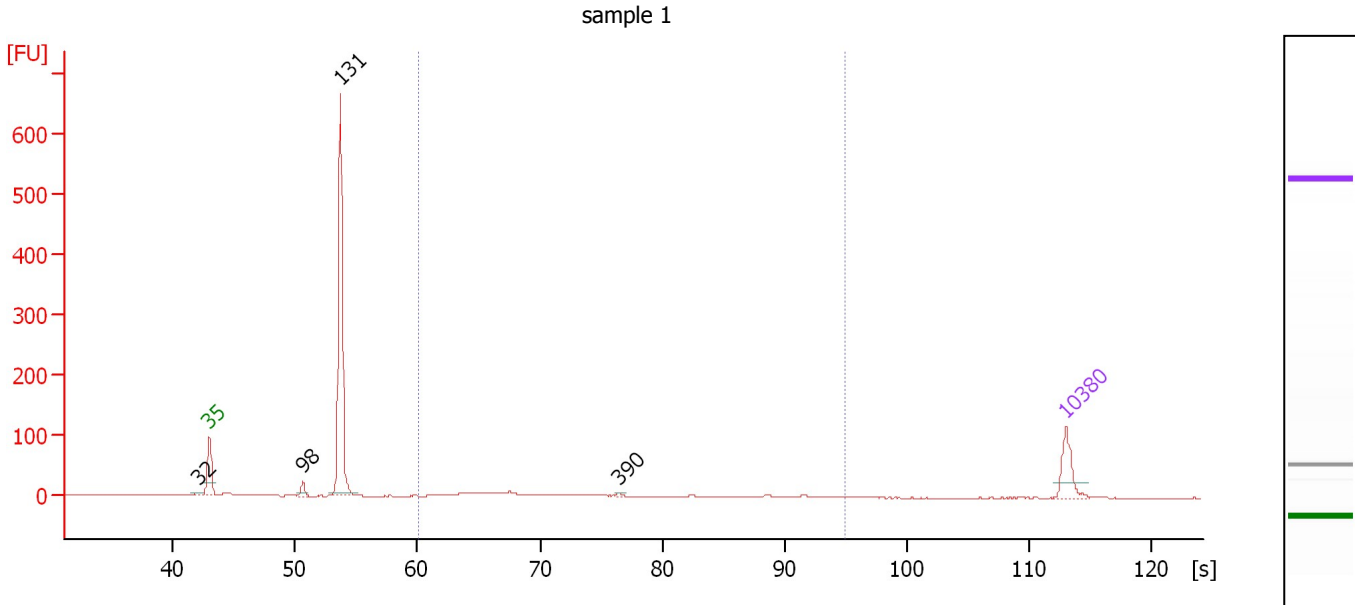
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.31
3	100	150.00	2,272.7	Ladder Peak	50.82
4	150	150.00	1,515.2	Ladder Peak	55.53
5	200	150.00	1,136.4	Ladder Peak	60.16
6	300	150.00	757.6	Ladder Peak	69.29
7	400	150.00	568.2	Ladder Peak	77.28
8	500	150.00	454.5	Ladder Peak	83.00
9	600	150.00	378.8	Ladder Peak	87.67
10	700	150.00	324.7	Ladder Peak	90.86
11	1,000	150.00	227.3	Ladder Peak	94.97
12	2,000	150.00	113.6	Ladder Peak	101.34
13	3,000	150.00	75.8	Ladder Peak	104.53
14	7,000	150.00	32.5	Ladder Peak	109.68
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 4 Corr. Area 1: 96.3
 Noise: 0.3

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.17
2	35	125.00	5,411.3	Lower Marker	43.00
3	98	29.08	447.9		50.64
4	131	814.94	9,450.2		53.71
5	390	3.79	14.7		76.49
6	10,380	75.00	10.9	Upper Marker	113.00

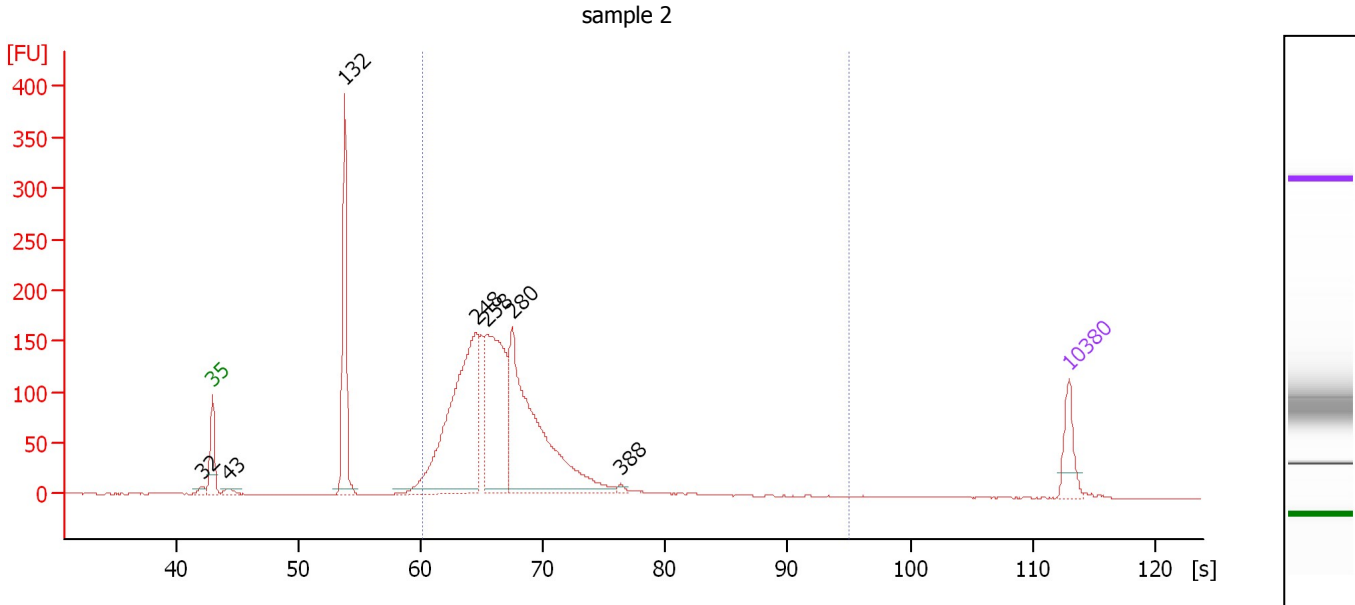
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	341	117.91	96.3	599.5	14	41.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 7 Corr. Area 1: 1,991.8
 Noise: 0.3

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.12
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	23.85	835.7		44.27
4	132	486.20	5,598.3		53.80
5	248	940.62	5,756.3		64.50
6	258	623.00	3,656.3		65.47
7	280	877.58	4,744.0		67.49
8	388	9.06	35.3		76.35
9	10,380	75.00	10.9	Upper Marker	113.00

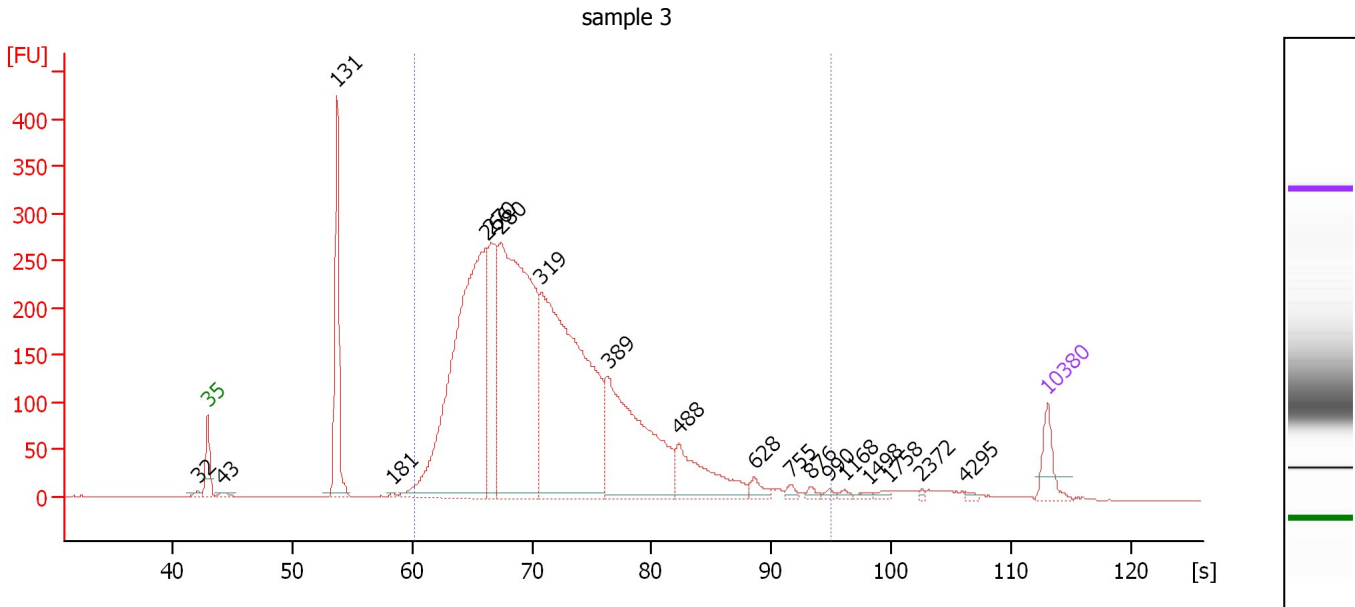
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	276	2,657.37	1,991.8	15,045.7	84	20.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 19 Corr. Area 1: 5,308.1
 Noise: 0.3

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.19
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	20.87	728.2		44.30
4	131	551.74	6,357.8		53.79
5	181	8.88	74.4		58.40
6	266	1,800.81	10,239.1		66.23
7	270	451.94	2,532.4		66.59
8	280	1,771.34	9,594.8		67.44
9	319	1,703.38	8,094.5		70.79
10	389	788.84	3,073.7		76.39
11	488	275.44	855.7		82.30
12	628	34.99	84.4		88.56
13	755	17.16	34.5		91.61
14	876	14.63	25.3		93.26
15	990	10.38	15.9		94.83
16	1,168	10.30	13.4		96.04
17	1,498	9.25	9.4		98.14
18	1,758	11.84	10.2		99.80
19	2,372	5.16	3.3		102.53
20	4,295	7.58	2.7		106.20
21	10,380	75.00	10.9	Upper Marker	113.00

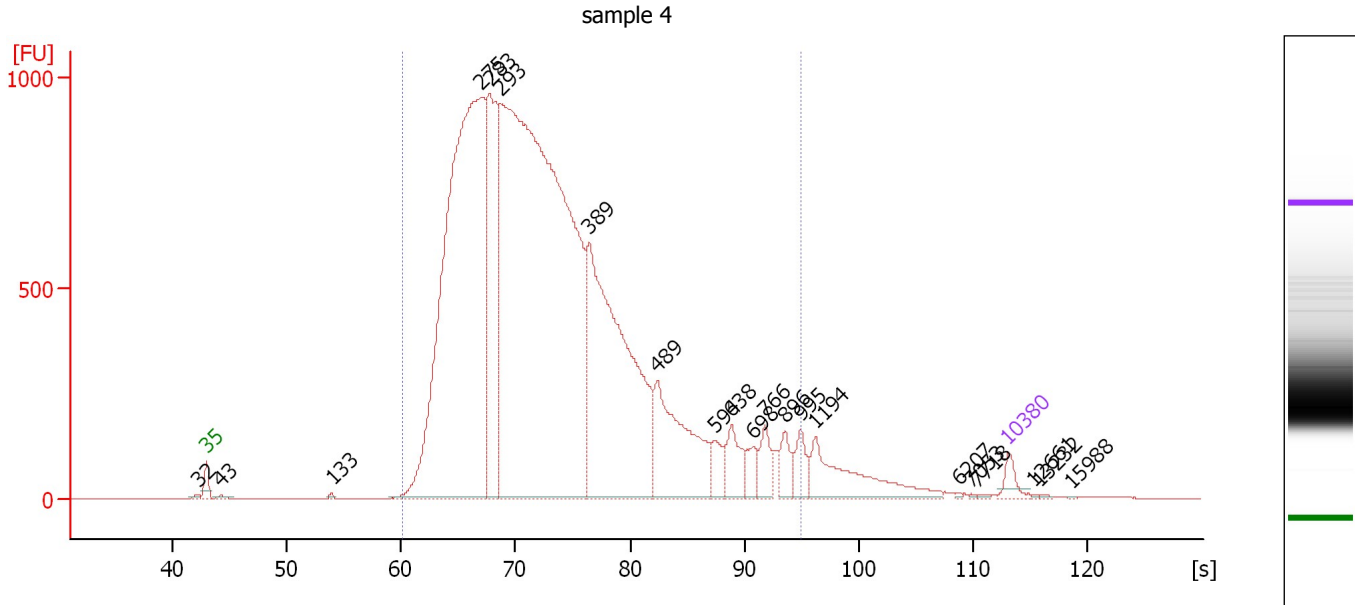
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	335	6,746.05	5,308.1	33,248.9	91	29.6

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 21 Corr. Area 1: 21,599.9
 Noise: 0.3

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.21
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	25.64	899.9		44.26
4	133	15.01	171.1		53.92
5	275	6,608.84	36,441.1		66.99
6	283	1,853.93	9,927.0		67.73
7	293	9,929.46	51,403.2		68.62
8	389	3,158.59	12,297.6		76.41
9	489	1,114.70	3,451.9		82.39
10	594	151.46	386.5		87.38
11	638	251.33	597.2		88.87
12	698	137.06	297.7		90.79
13	766	178.99	353.9		91.77
14	896	142.04	240.2		93.54
15	995	159.65	243.2		94.89
16	1,194	513.50	651.8		96.20
17	6,207	5.74	1.4		108.66
18	7,053	5.48	1.2		109.73
19	7,718	7.19	1.4		110.39
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,661	0.00	0.0		115.24
22	13,232	0.00	0.0		115.80
23	15,988	0.00	0.0		118.51

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Electropherogram Summary Continued ...

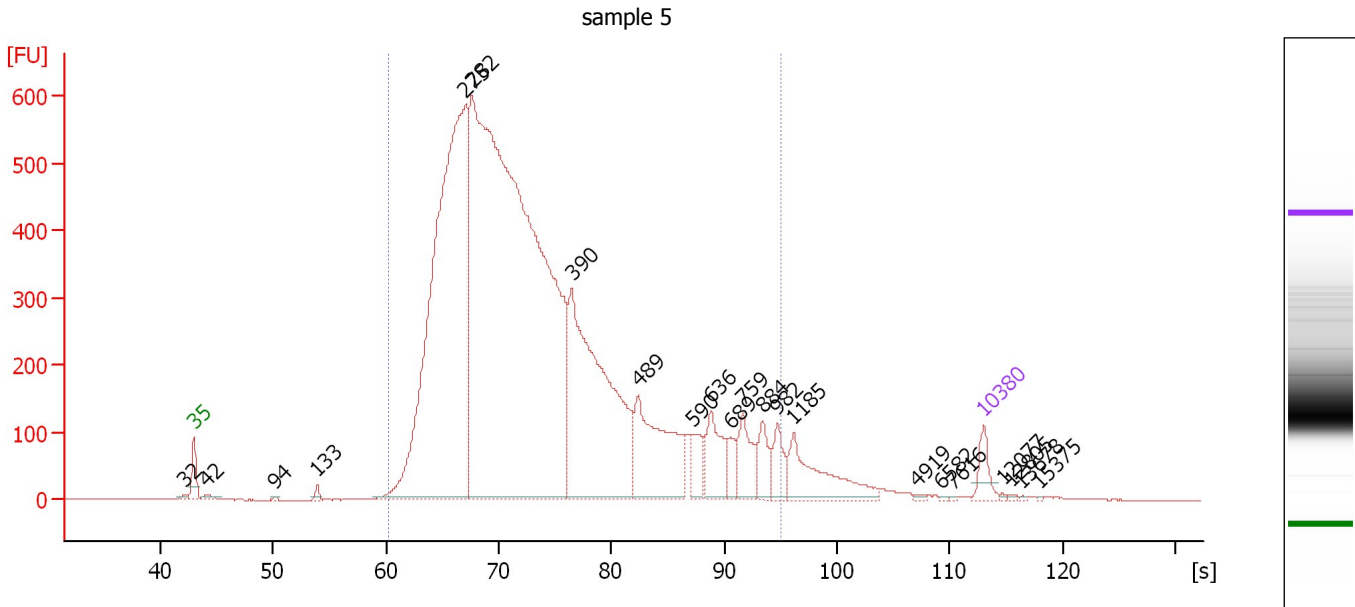
... Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	365	22,856.20	21,599.9	107,227.0	 96	36.2

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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 22 Corr. Area 1: 11,897.9
 Noise: 0.4

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.19
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	26.20	936.0		44.14
4	94	6.30	101.1		50.19
5	133	27.63	315.3		53.90
6	275	3,934.50	21,642.3		67.05
7	282	7,324.74	39,322.4		67.67
8	390	1,717.86	6,674.8		76.48
9	489	653.63	2,024.5		82.38
10	590	120.91	310.7		87.19
11	636	240.19	572.5		88.81
12	689	84.11	184.8		90.52
13	759	190.70	380.7		91.67
14	884	123.96	212.4		93.38
15	982	119.27	184.1		94.71
16	1,185	301.64	385.8		96.14
17	4,919	6.78	2.1		107.00
18	6,582	3.84	0.9		109.14
19	7,616	2.88	0.6		110.29
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,077	0.00	0.0		114.67
22	12,805	0.00	0.0		115.38
23	13,678	0.00	0.0		116.24
24	15,375	0.00	0.0		117.90

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Electropherogram Summary Continued ...

... Region table for sample 5 :

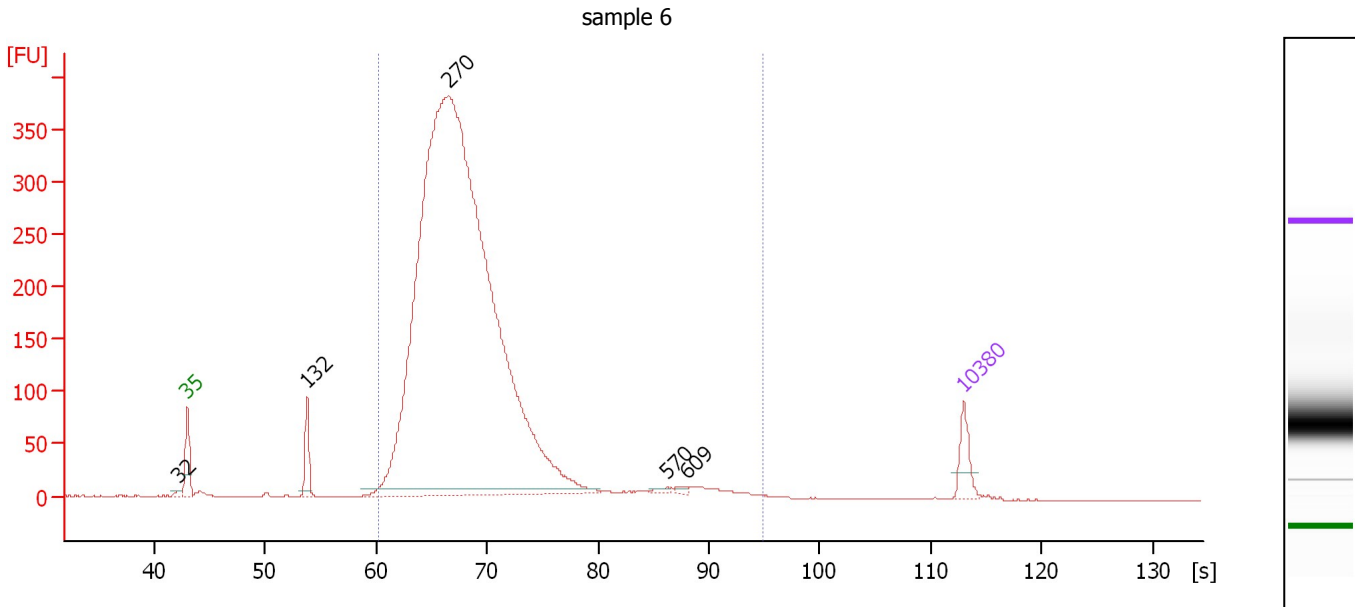
sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	373	13,971.17	11,897.9	65,187.2	 95	38.8

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



Overall Results for sample 6 : sample 6

Number of peaks found: 5 Corr. Area 1: 4,631.7
 Noise: 0.3

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.18
2	35	125.00	5,411.3	Lower Marker	43.00
3	132	131.86	1,518.4		53.80
4	270	6,790.81	38,143.8		66.53
5	570	12.02	31.9		86.28
6	609	11.36	28.2		87.97
7	10,380	75.00	10.9	Upper Marker	113.00

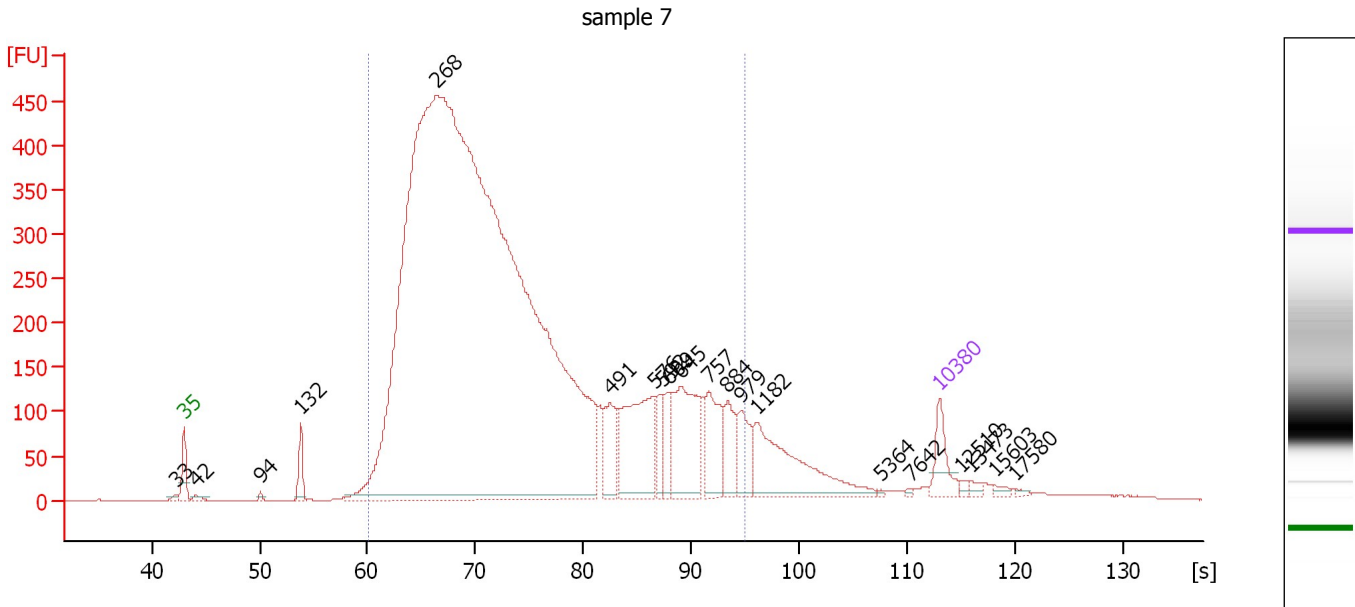
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	297	6,906.84	4,631.7	37,062.7	97	27.0

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 20 Corr. Area 1: 9,832.0
 Noise: 0.3

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.30
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	17.61	629.1		44.15
4	94	10.55	170.6		50.12
5	132	84.73	975.0		53.80
6	268	9,006.64	50,956.4		66.35
7	491	141.09	435.5		82.48
8	576	362.59	953.3		86.56
9	592	76.83	196.5		87.31
10	609	77.38	192.5		87.96
11	645	311.23	731.3		89.10
12	757	181.00	362.2		91.64
13	884	99.12	169.8		93.38
14	979	107.97	167.1		94.68
15	1,182	316.62	406.0		96.12
16	5,364	3.29	0.9		107.57
17	7,642	3.60	0.7		110.31
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,510	0.00	0.0		115.09
20	13,473	0.00	0.0		116.04
21	15,603	0.00	0.0		118.13
22	17,580	0.00	0.0		120.07

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Electropherogram Summary Continued ...

... Region table for sample 7 :

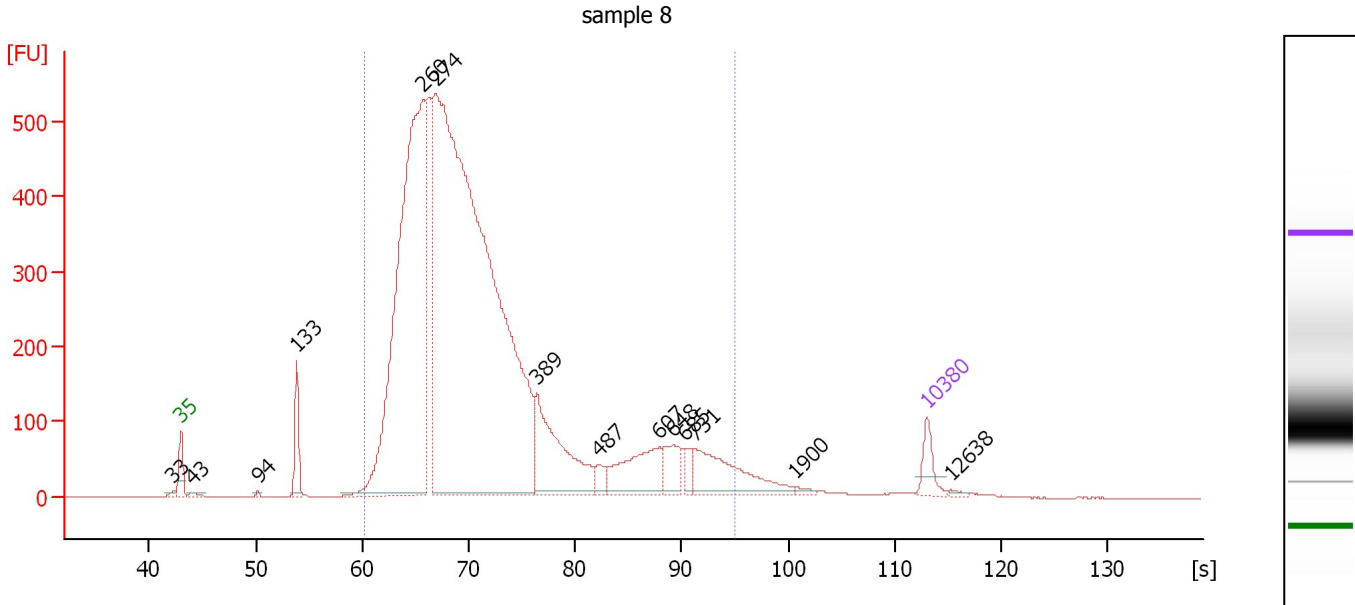
sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	383	9,704.24	9,832.0	45,719.7	 92	42.7

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 14 Corr. Area 1: 8,921.2
 Noise: 0.3

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.29
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	21.45	764.5		44.16
4	94	9.55	153.2		50.21
5	133	199.91	2,285.3		53.89
6	260	2,942.39	17,117.4		65.68
7	274	5,973.53	33,002.0		66.94
8	389	545.97	2,125.7		76.41
9	487	55.17	171.6		82.26
10	607	283.42	707.2		87.90
11	648	123.92	289.6		89.21
12	685	51.01	112.9		90.37
13	731	329.78	683.9		91.28
14	1,900	11.43	9.1		100.70
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,638	0.00	0.0		115.22

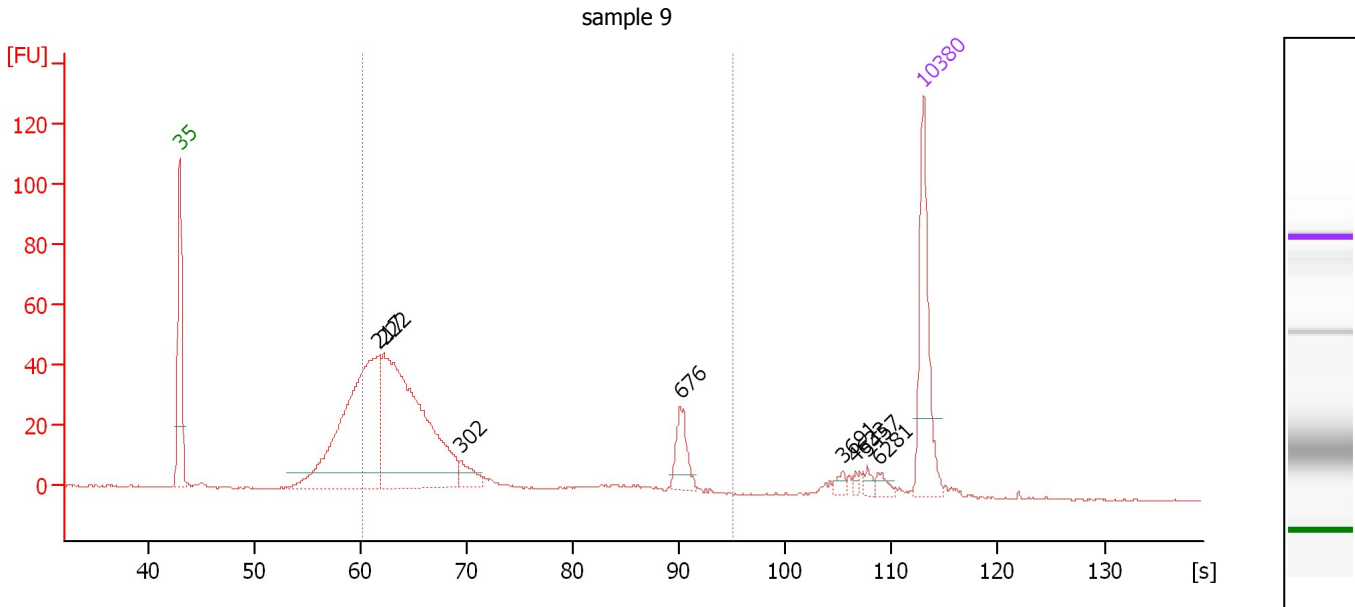
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	342	10,456.07	8,921.2	52,431.6	95	39.4

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 8 Corr. Area 1: 539.6
 Noise: 0.2

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	217	322.42	2,252.7		61.70
3	222	353.48	2,408.2		62.21
4	302	19.03	95.3		69.48
5	676	31.98	71.7		90.10
6	3,691	4.81	2.0		105.42
7	4,633	3.12	1.0		106.63
8	5,457	4.52	1.3		107.69
9	6,281	6.51	1.6		108.75
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : sample 9

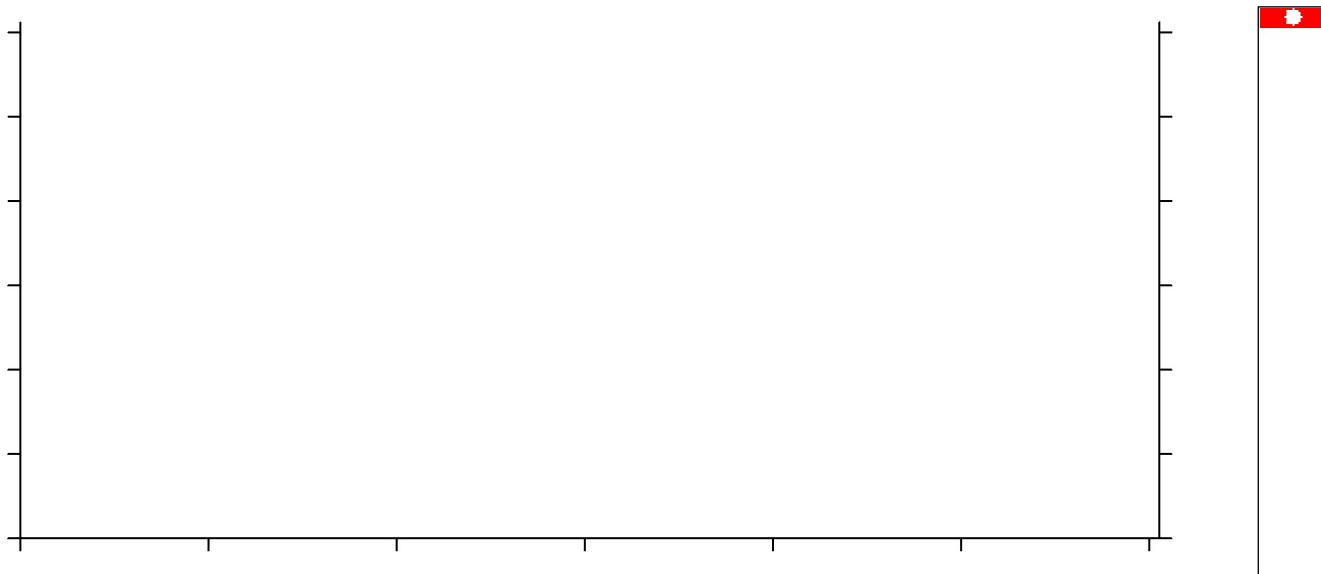
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	309	575.83	539.6	3,361.6	71	48.5

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Electropherogram Summary Continued ...

sample 10



Setpoint Deviations for sample 10 : sample 10

End Analysis Time Range [s] : 0.65

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Gel Image

Assay Class: High Sensitivity DNA Assay
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Invalid Samples

Sample 11 has not been run, no results available.