

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-06\2019-03-06_003.xad

Created: 3/6/2019 1:54:55 PM
Modified: 3/6/2019 2:28:45 PM

Electrophoresis File Run Summary

Instrument Information:

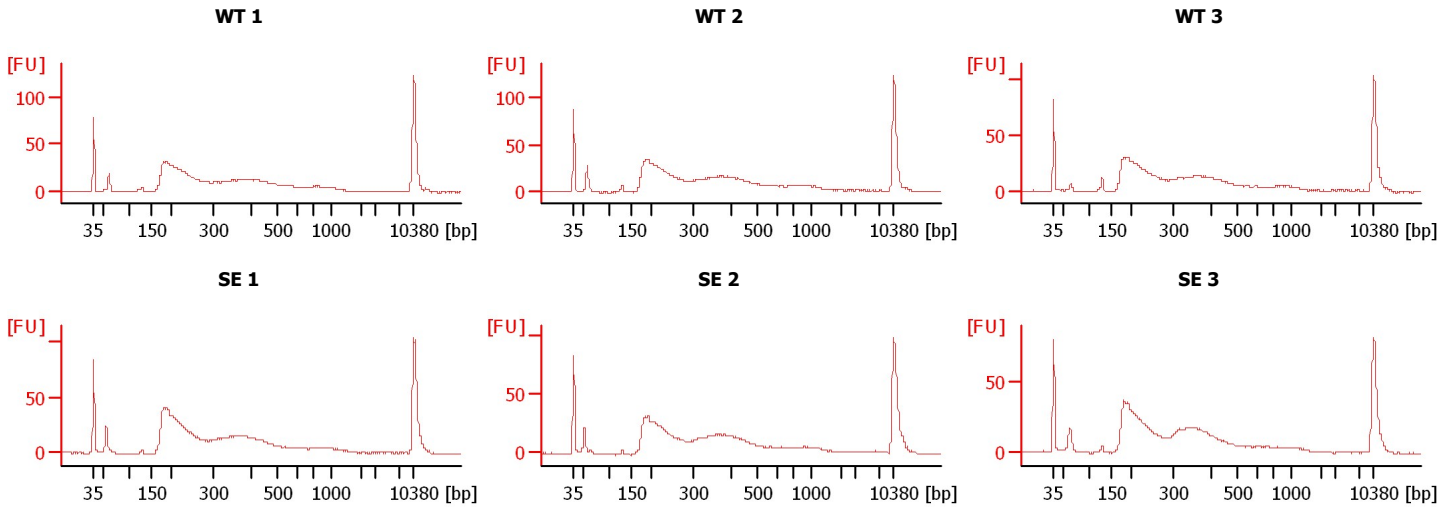
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
WT 1		<input type="checkbox"/>	✓			
WT 2		<input type="checkbox"/>	✓			
WT 3		<input type="checkbox"/>	✓			
SE 1		<input type="checkbox"/>	✓			
SE 2		<input type="checkbox"/>	✓			
SE 3		<input type="checkbox"/>	✓			
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<input type="checkbox"/>				
		<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

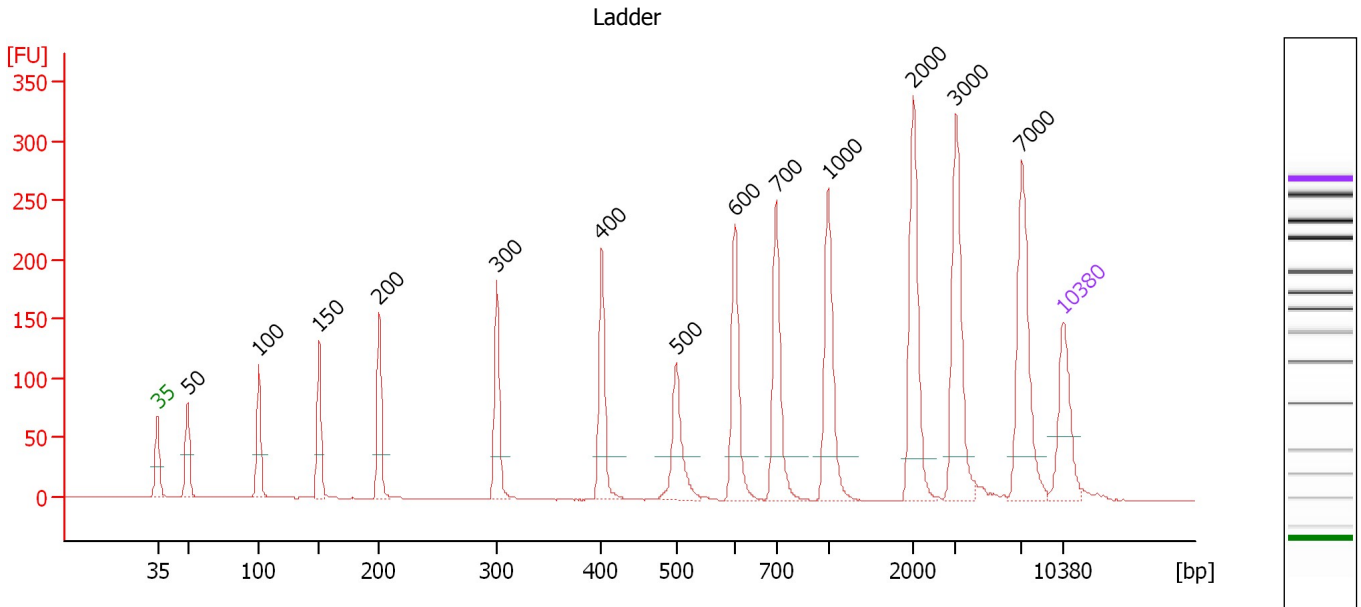
Ladder

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: 0.4

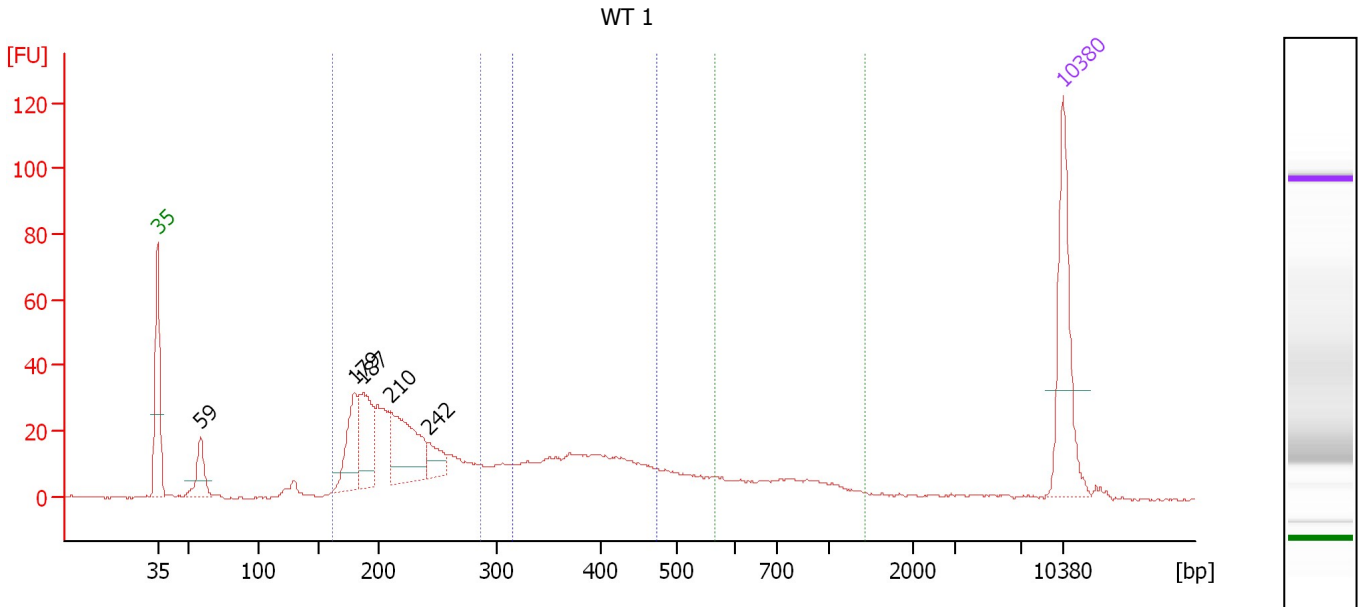
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.82
4	150	150.00	1,515.2	Ladder Peak	55.48
5	200	150.00	1,136.4	Ladder Peak	60.15
6	300	150.00	757.6	Ladder Peak	69.24
7	400	150.00	568.2	Ladder Peak	77.34
8	500	150.00	454.5	Ladder Peak	83.10
9	600	150.00	378.8	Ladder Peak	87.62
10	700	150.00	324.7	Ladder Peak	90.82
11	1,000	150.00	227.3	Ladder Peak	94.85
12	2,000	150.00	113.6	Ladder Peak	101.43
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : WT 1

Number of peaks found: 5 Corr. Area 2: 175.3
 Noise: 0.4 Corr. Area 3: 65.9
 Corr. Area 1: 363.1

Peak table for sample 1 : WT 1

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	59	39.08	1,005.3		46.31
3	179	64.30	544.0		58.19
4	187	71.07	577.2		58.89
5	210	97.84	706.6		61.04
6	242	23.17	145.0		63.97
7	10,380	75.00	10.9	Upper Marker	113.00

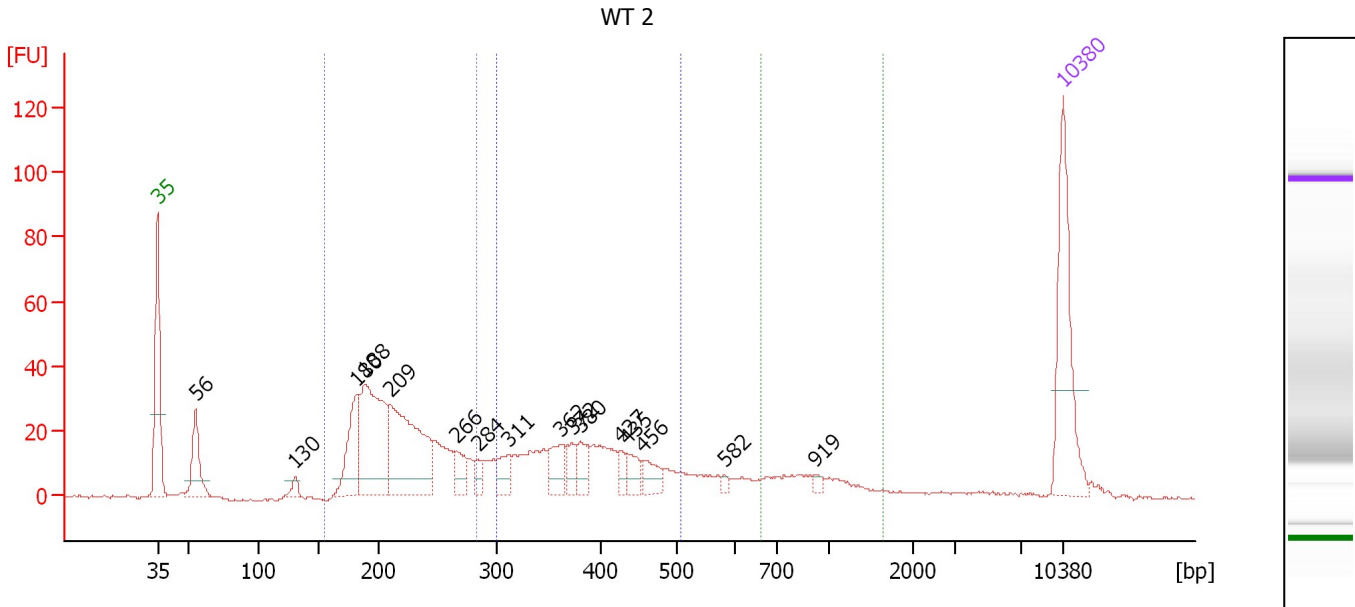
Region table for sample 1 : WT 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
161	287	216	432.75	363.1	3,097.6	49	14.5
316	475	387	173.37	175.3	687.5	24	11.1
564	1,431	797	56.64	65.9	115.4	9	26.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : WT 2

Number of peaks found: 16 Corr. Area 2: 259.0
 Noise: 0.5 Corr. Area 3: 56.4
 Corr. Area 1: 377.4

Peak table for sample 2 : WT 2

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	56	50.45	1,375.7		45.94
3	130	7.97	92.7		53.65
4	180	60.78	510.5		58.32
5	188	136.34	1,099.3		59.02
6	209	144.36	1,045.8		60.98
7	266	20.94	119.4		66.12
8	284	10.82	57.7		67.80
9	311	19.24	93.8		70.13
10	362	25.02	104.8		74.24
11	372	12.72	51.9		75.03
12	380	17.90	71.5		75.69
13	427	9.15	32.5		78.86
14	435	14.87	51.8		79.33
15	456	16.53	54.9		80.59
16	582	3.08	8.0		86.80
17	919	3.48	5.7		93.76
18	10,380	75.00	10.9	Upper Marker	113.00

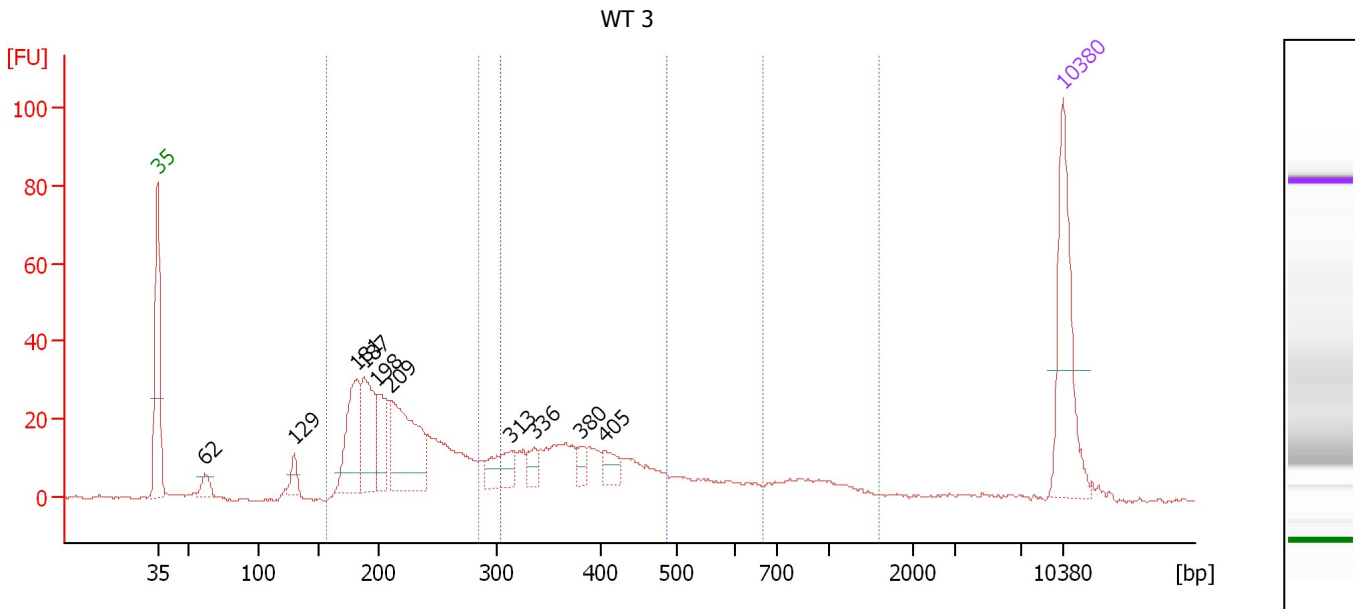
Region table for sample 2 : WT 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
154	283	217	418.94	377.4	2,984.3	45	13.9
299	509	387	240.15	259.0	960.1	31	14.1
661	1,655	961	43.88	56.4	73.9	7	26.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : WT 3

Number of peaks found: 10 Corr. Area 2: 201.0
 Noise: 0.5 Corr. Area 3: 39.7
 Corr. Area 1: 347.7

Peak table for sample 3 : WT 3

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	62	13.66	334.0		46.65
3	129	14.14	165.5		53.56
4	181	79.34	663.4		58.39
5	187	70.48	570.1		58.96
6	198	41.15	314.2		60.00
7	209	109.26	790.7		61.00
8	313	30.49	147.7		70.28
9	336	12.02	54.3		72.13
10	380	10.80	43.1		75.68
11	405	14.49	54.2		77.62
12	10,380	75.00	10.9	Upper Marker	113.00

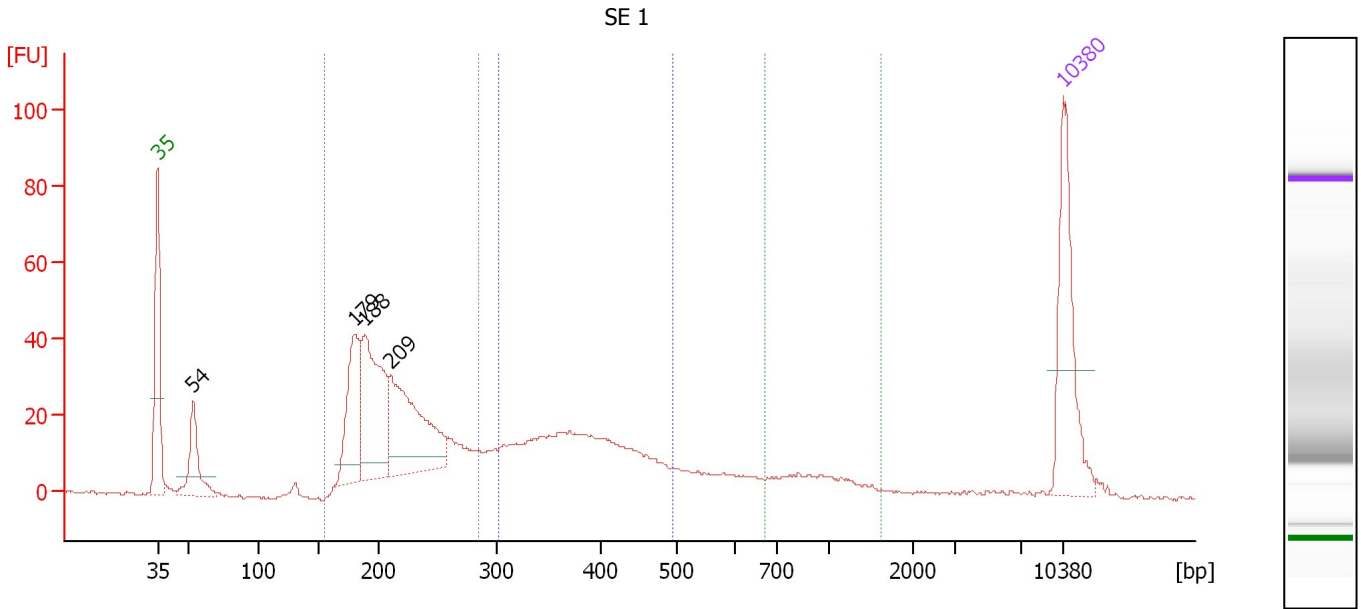
Region table for sample 3 : WT 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
156	284	216	423.39	347.7	3,036.9	49	14.3
303	487	380	204.59	201.0	829.7	28	12.8
669	1,600	963	33.72	39.7	56.1	6	24.3

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Electropherogram Summary Continued ...



Overall Results for sample 4 : SE 1

Number of peaks found: 4
 Noise: 0.4
 Corr. Area 1: 421.6
 Corr. Area 2: 236.8
 Corr. Area 3: 42.3

Peak table for sample 4 : SE 1

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	54	57.87	1,627.9		45.76
3	179	93.15	786.5		58.23
4	188	133.73	1,076.3		59.05
5	209	139.15	1,007.8		60.98
6	10,380	75.00	10.9	Upper Marker	113.00

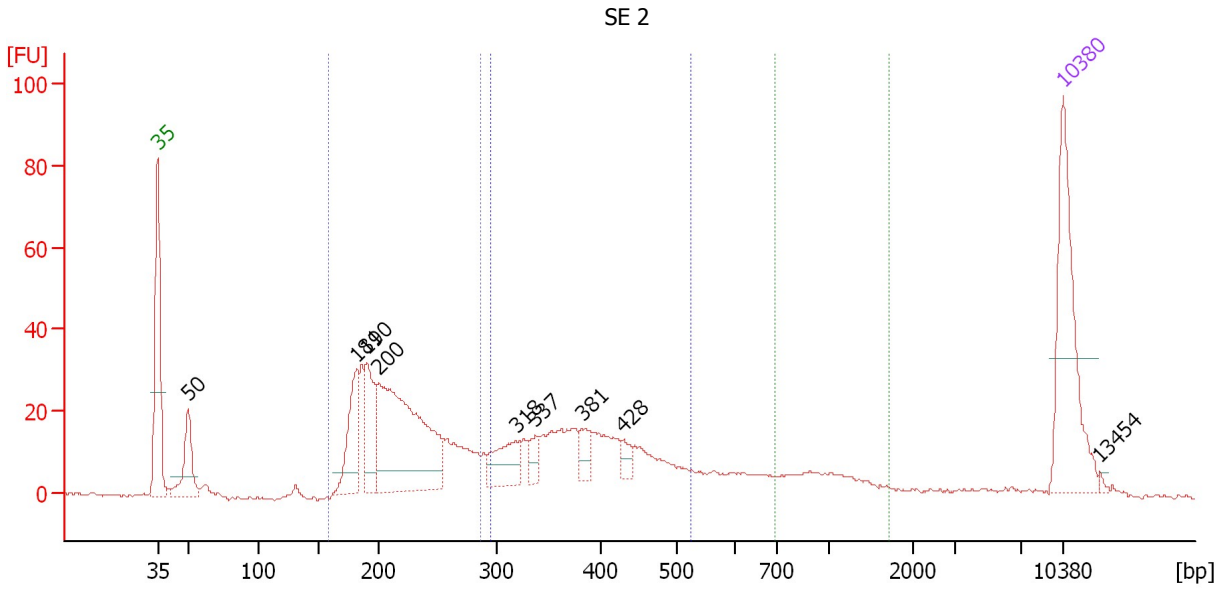
Region table for sample 4 : SE 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
154	285	214	479.46	421.6	3,465.6	51	14.3
302	497	383	224.37	236.8	903.4	28	13.2
673	1,617	980	33.39	42.3	54.9	5	25.0

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Electropherogram Summary Continued ...



Overall Results for sample 5 : SE 2

Number of peaks found: 9
 Noise: 0.4
 Corr. Area 1: 341.9
 Corr. Area 2: 257.6
 Corr. Area 3: 45.0

Peak table for sample 5 : SE 2

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	43.05	1,294.3		45.37
3	181	49.23	413.0		58.34
4	190	48.71	389.2		59.18
5	200	186.28	1,413.4		60.12
6	318	31.88	151.9		70.70
7	337	12.05	54.2		72.24
8	381	13.59	54.1		75.80
9	428	7.99	28.3		78.96
10	10,380	75.00	10.9	Upper Marker	113.00
11	13,454	0.00	0.0		115.87

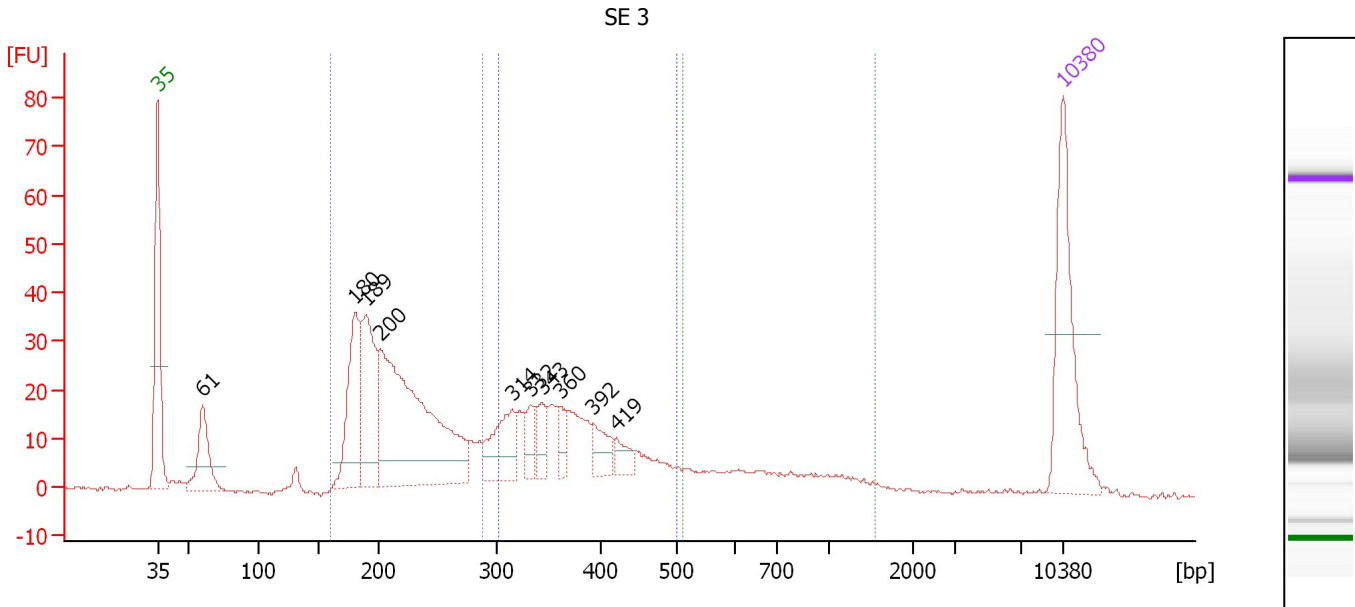
Region table for sample 5 : SE 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
157	287	218	364.41	341.9	2,587.0	45	14.2
295	525	388	229.87	257.6	921.8	34	14.9
695	1,717	1,057	32.90	45.0	50.2	6	25.8

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Electropherogram Summary Continued ...



Overall Results for sample 6 : SE 3

Number of peaks found: 10 Corr. Area 2: 233.7
 Noise: 0.4 Corr. Area 3: 62.5
 Corr. Area 1: 358.2

Peak table for sample 6 : SE 3

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	61	57.86	1,446.7		46.49
3	180	91.29	767.7		58.30
4	189	95.21	761.6		59.16
5	200	253.93	1,921.0		60.17
6	314	47.43	228.6		70.40
7	332	17.53	79.9		71.87
8	343	18.79	83.0		72.73
9	360	14.01	59.0		74.10
10	392	20.88	80.7		76.68
11	419	12.21	44.1		78.46
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : SE 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
160	287	216	466.65	358.2	3,351.4	49	14.5
301	500	374	255.95	233.7	1,055.6	32	13.3
513	1,548	788	58.98	62.5	126.7	9	33.5

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Gel Image

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Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.