

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-13\2017-11-13_001.xad

Created: 11/13/2017 10:42:01 AM
Modified: 11/13/2017 11:23:20 AM

Electrophoresis File Run Summary

Instrument Information:

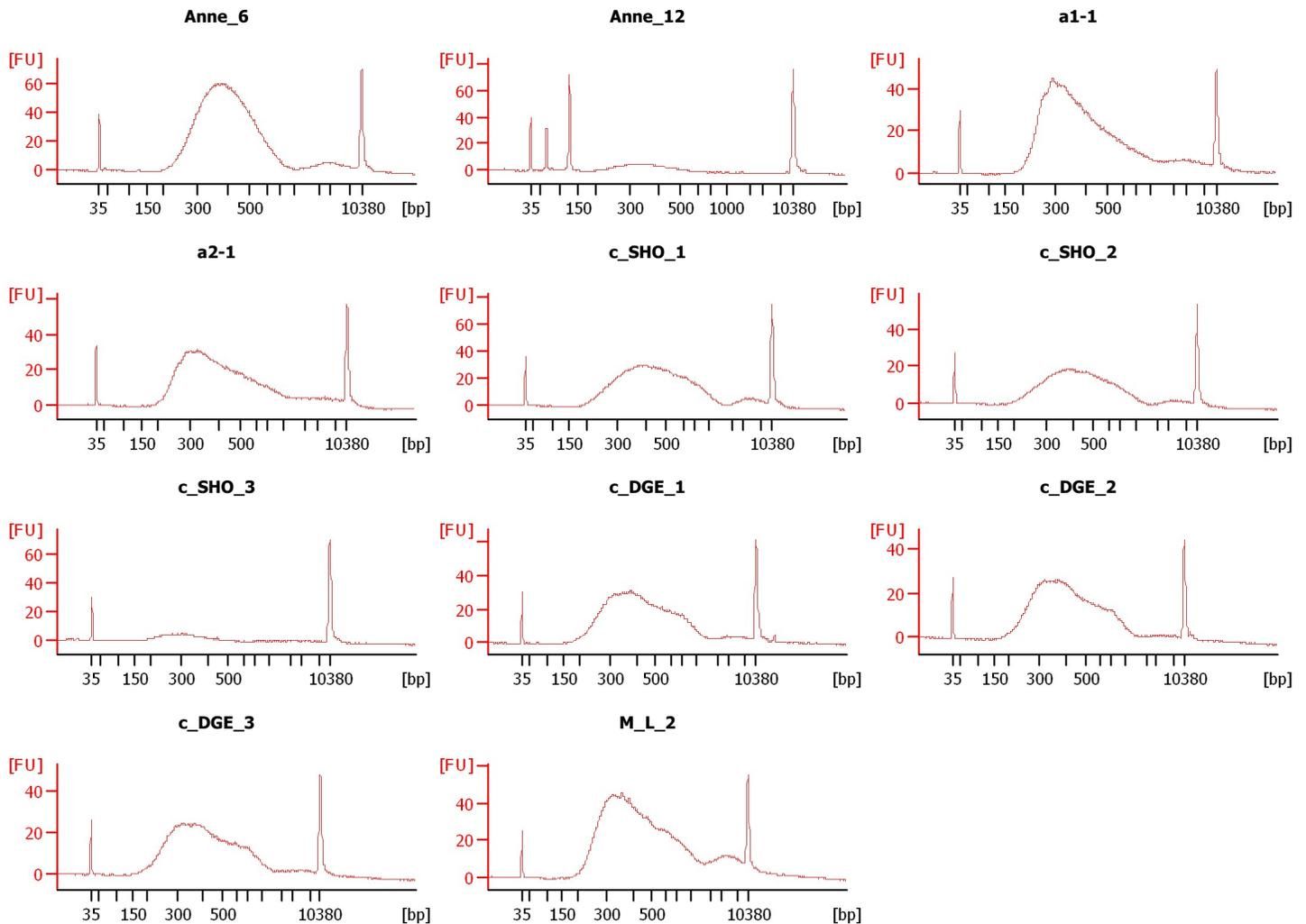
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
Anne_6		<input type="checkbox"/>	✓			
Anne_12		<input type="checkbox"/>	✓			
a1-1		<input type="checkbox"/>	✓			
a2-1		<input type="checkbox"/>	✓			
c_SHO_1		<input type="checkbox"/>	✓			
c_SHO_2		<input type="checkbox"/>	✓			
c_SHO_3		<input type="checkbox"/>	✓			
c_DGE_1		<input type="checkbox"/>	✓			
c_DGE_2		<input type="checkbox"/>	✓			
c_DGE_3		<input type="checkbox"/>	✓			
M_L_2		<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

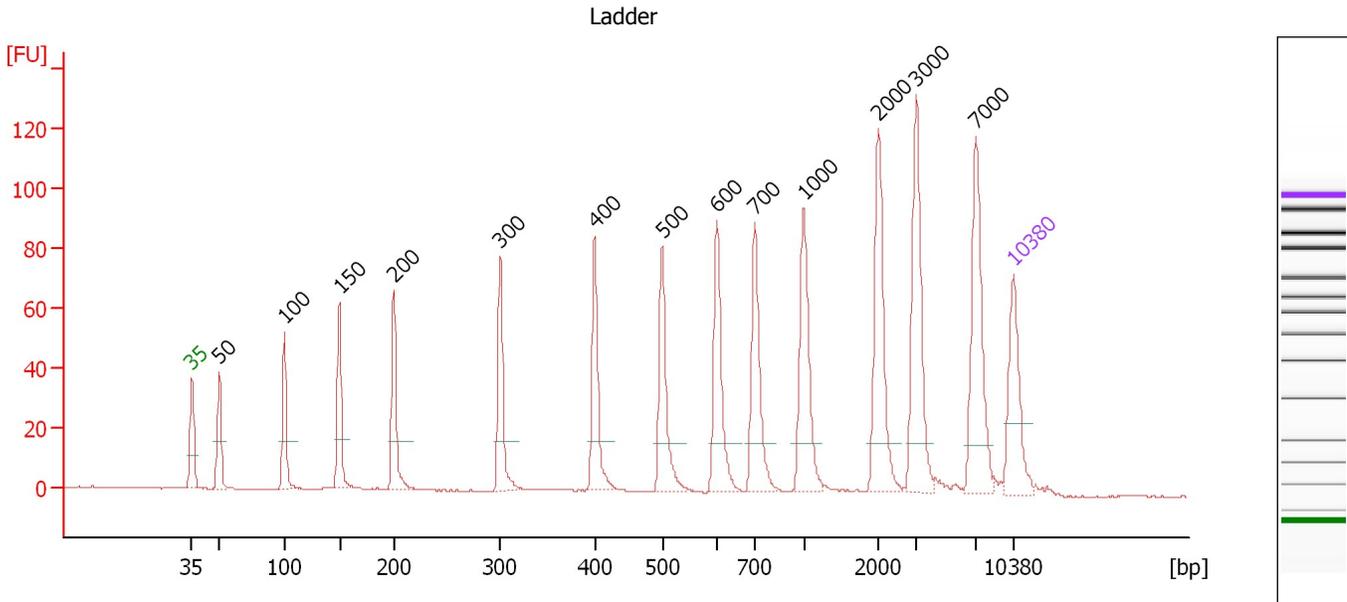
Ladder

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: 0.1

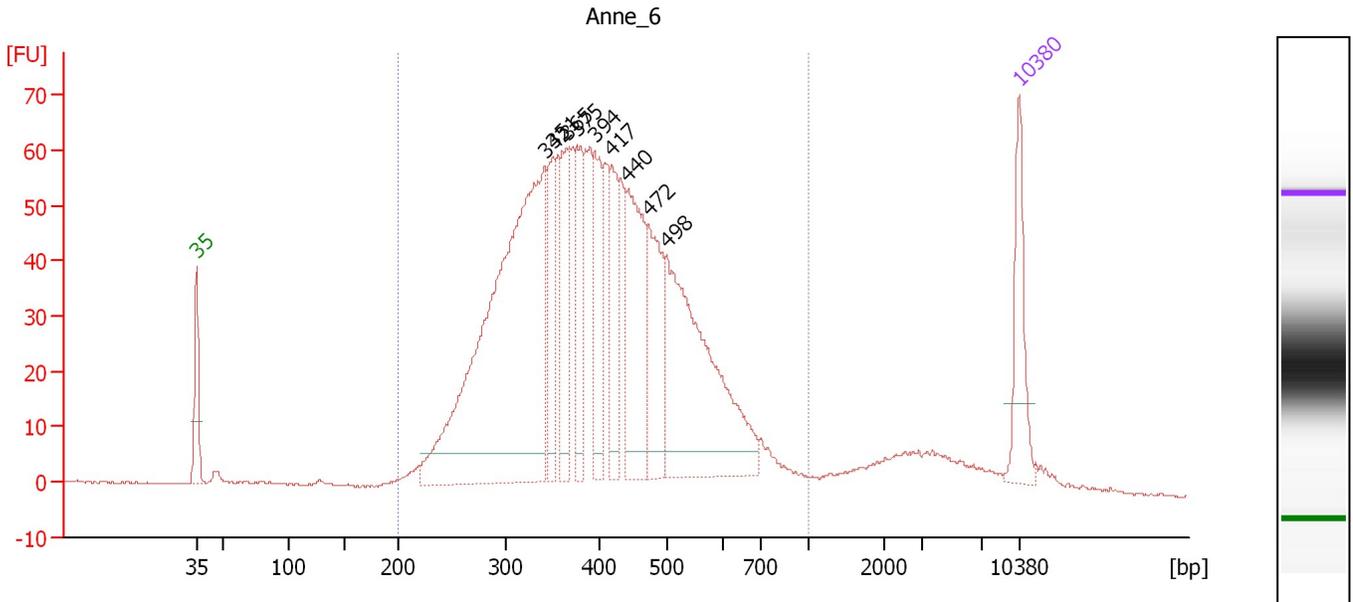
Peak table for Ladder

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	50.87
4	150	150.00	1,515.2	Ladder Peak	55.57
5	200	150.00	1,136.4	Ladder Peak	60.18
6	300	150.00	757.6	Ladder Peak	69.27
7	400	150.00	568.2	Ladder Peak	77.32
8	500	150.00	454.5	Ladder Peak	83.06
9	600	150.00	378.8	Ladder Peak	87.77
10	700	150.00	324.7	Ladder Peak	90.98
11	1,000	150.00	227.3	Ladder Peak	95.14
12	2,000	150.00	113.6	Ladder Peak	101.51
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.83
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Anne 6

Number of peaks found: 9 Corr. Area 1: 1,510.0
 Noise: 0.2

Peak table for sample 1 : Anne 6

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	342	855.24	3,792.7		72.63
3	351	112.11	483.7		73.39
4	365	118.88	493.9		74.48
5	375	102.89	415.4		75.34
6	394	108.37	416.3		76.87
7	417	101.20	367.4		78.32
8	440	196.91	677.9		79.63
9	472	149.74	481.1		81.43
10	498	393.14	1,195.4		82.97
11	10,380	75.00	10.9	Upper Marker	113.00

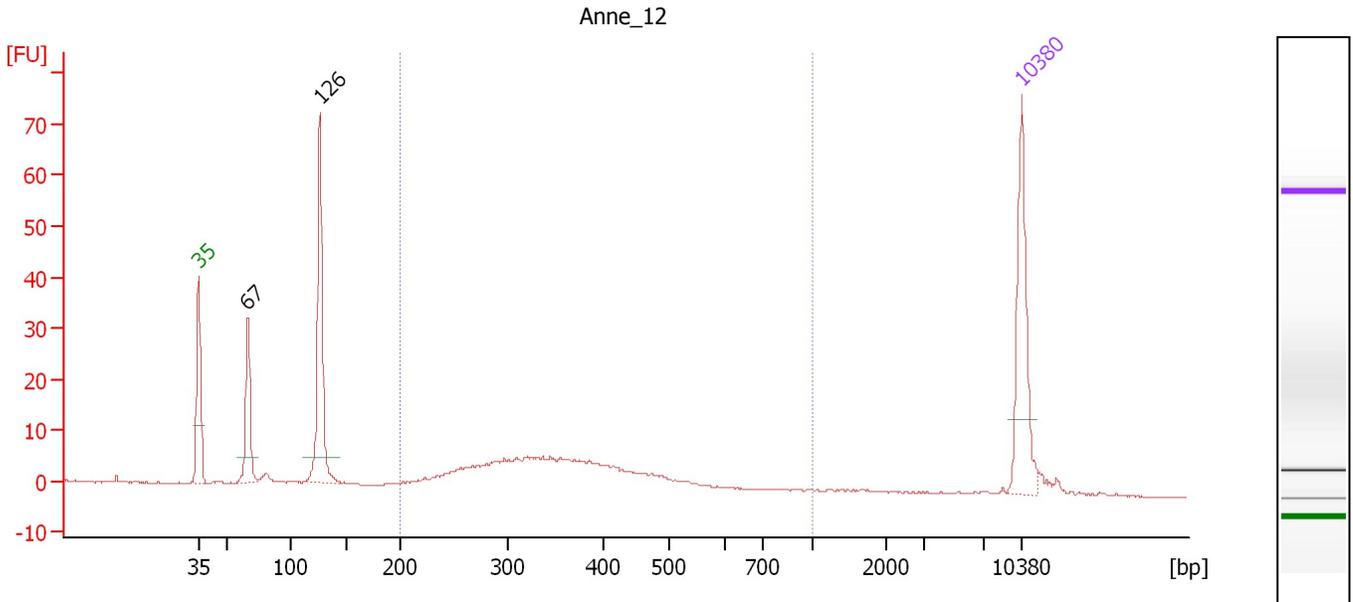
Region table for sample 1 : Anne 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	412	1,510.0	11,346.2	2,805.80	93	27.4

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Anne_12

Number of peaks found: 2 Corr. Area 1: 145.0
 Noise: 0.2

Peak table for sample 2 : Anne_12

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	67	79.59	1,810.9		47.15
3	126	169.30	2,039.9		53.29
4	10,380	75.00	10.9	Upper Marker	113.00

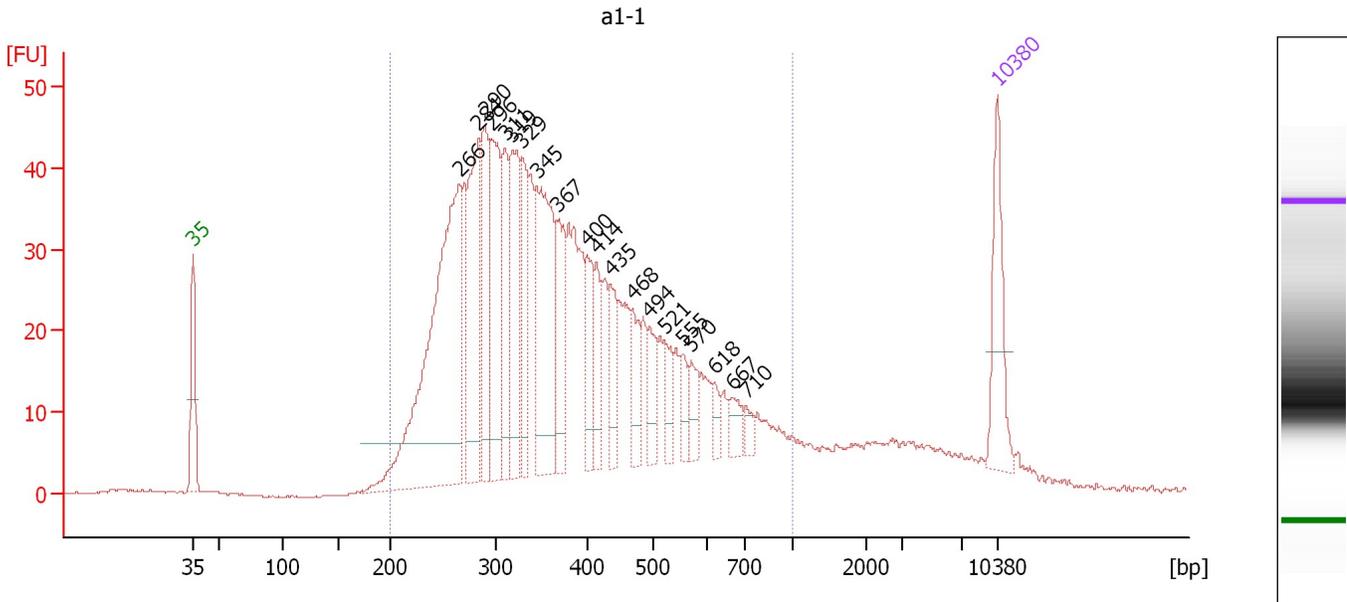
Region table for sample 2 : Anne_12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	371	145.0	1,176.8	260.45	51	30.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : a1-1

Number of peaks found: 20 Corr. Area 1: 1,135.3
 Noise: 0.1

Peak table for sample 3 : a1-1

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	266	563.80	3,211.8		66.18
3	284	208.36	1,110.6		67.84
4	290	133.74	697.9		68.40
5	296	177.46	907.0		68.95
6	311	103.25	503.2		70.15
7	319	154.87	735.7		70.80
8	329	101.83	468.6		71.63
9	345	241.31	1,058.8		72.92
10	367	100.51	414.8		74.68
11	400	66.65	252.6		77.31
12	414	54.50	199.3		78.14
13	435	54.79	190.8		79.34
14	468	50.44	163.3		81.23
15	494	46.18	141.7		82.71
16	521	34.92	101.6		84.05
17	555	25.99	70.9		85.66
18	570	33.82	89.9		86.36
19	618	17.79	43.6		88.34
20	667	23.80	54.1		89.91
21	710	12.29	26.2		91.11
22	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

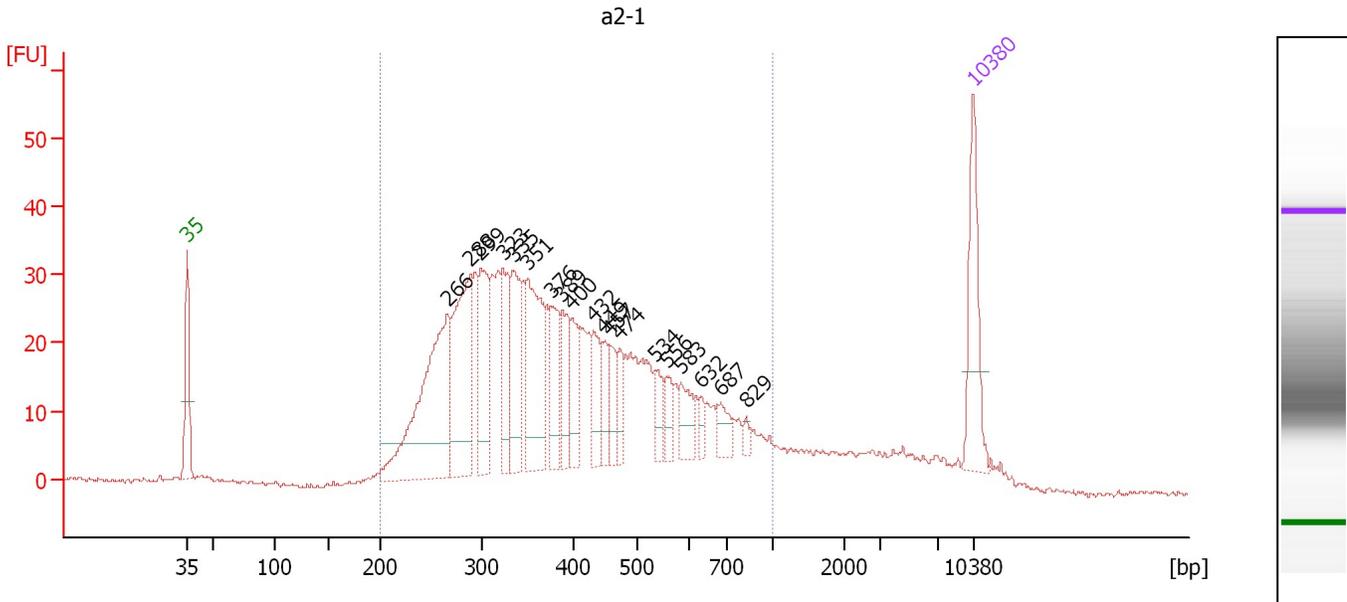
... Region table for sample 3 : a1-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	394	1,135.3	14,195.4	3,188.81	91	36.5

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



Overall Results for sample 4 : a2-1

Number of peaks found: 19 Corr. Area 1: 897.2
 Noise: 0.3

Peak table for sample 4 : a2-1

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	266	293.61	1,674.0		66.16
3	288	193.22	1,016.1		68.19
4	299	115.84	587.9		69.14
5	323	79.01	370.6		71.12
6	335	94.44	427.5		72.07
7	351	167.79	725.2		73.34
8	376	62.91	253.2		75.42
9	389	52.04	202.8		76.42
10	400	50.97	193.1		77.31
11	432	47.02	164.9		79.16
12	449	31.58	106.5		80.15
13	457	32.29	106.9		80.62
14	474	28.50	91.1		81.57
15	534	27.41	77.8		84.64
16	556	24.45	66.7		85.68
17	583	34.99	91.0		86.96
18	632	12.67	30.4		88.80
19	687	23.64	52.2		90.55
20	829	6.53	11.9		92.77
21	10,380	75.00	10.9	Upper Marker	113.00

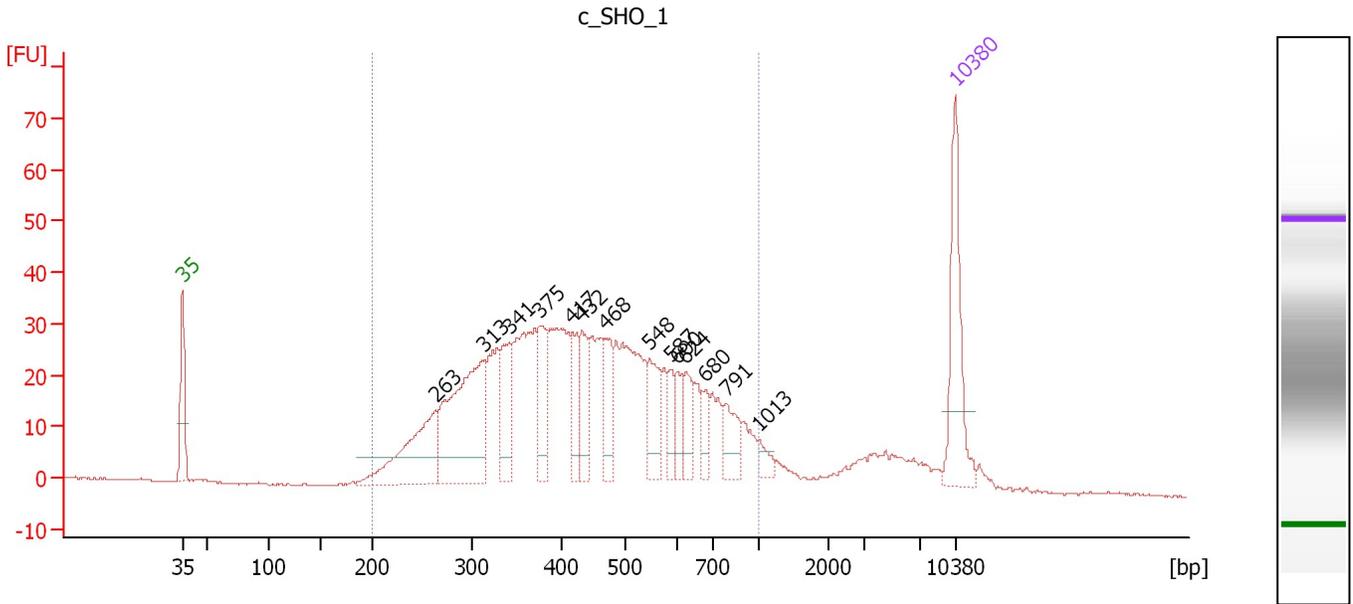
Region table for sample 4 : a2-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	415	897.2	9,069.0	2,128.03	90	36.8

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Electropherogram Summary Continued ...



Overall Results for sample 5 : c_SHO_1

Number of peaks found: 14 Corr. Area 1: 954.6
 Noise: 0.2

Peak table for sample 5 : c_SHO_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	263	128.20	739.8		65.87
3	313	205.34	995.2		70.29
4	341	64.35	286.2		72.55
5	375	54.70	220.8		75.33
6	417	40.54	147.2		78.31
7	432	44.98	157.6		79.18
8	468	42.04	136.0		81.24
9	548	49.82	137.7		85.33
10	587	21.32	55.0		87.15
11	600	22.05	55.7		87.78
12	624	29.12	70.7		88.55
13	680	19.54	43.6		90.32
14	791	32.76	62.7		92.25
15	1,013	10.84	16.2		95.22
16	10,380	75.00	10.9	Upper Marker	113.00

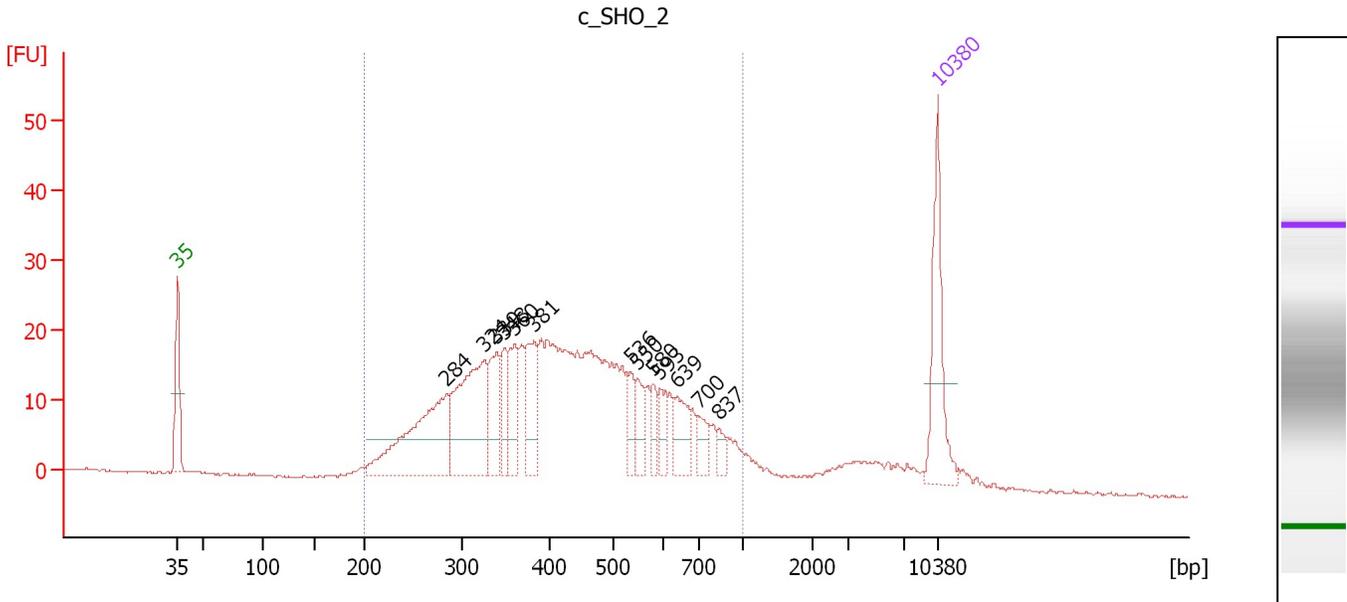
Region table for sample 5 : c_SHO_1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	458	954.6	5,748.2	1,483.42	91	34.9

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Electropherogram Summary Continued ...



Overall Results for sample 6 : c_SHO_2

Number of peaks found: 13 Corr. Area 1: 599.4
 Noise: 0.2

Peak table for sample 6 : c_SHO_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	284	185.51	989.8		67.82
3	324	174.36	814.5		71.23
4	339	61.52	275.0		72.41
5	348	37.49	163.2		73.14
6	360	51.80	218.3		74.07
7	381	64.90	257.8		75.83
8	536	30.63	86.6		84.77
9	550	25.91	71.4		85.40
10	580	19.03	49.7		86.82
11	593	20.80	53.1		87.45
12	639	37.17	88.1		89.02
13	700	19.32	41.8		90.97
14	837	12.27	22.2		92.87
15	10,380	75.00	10.9	Upper Marker	113.00

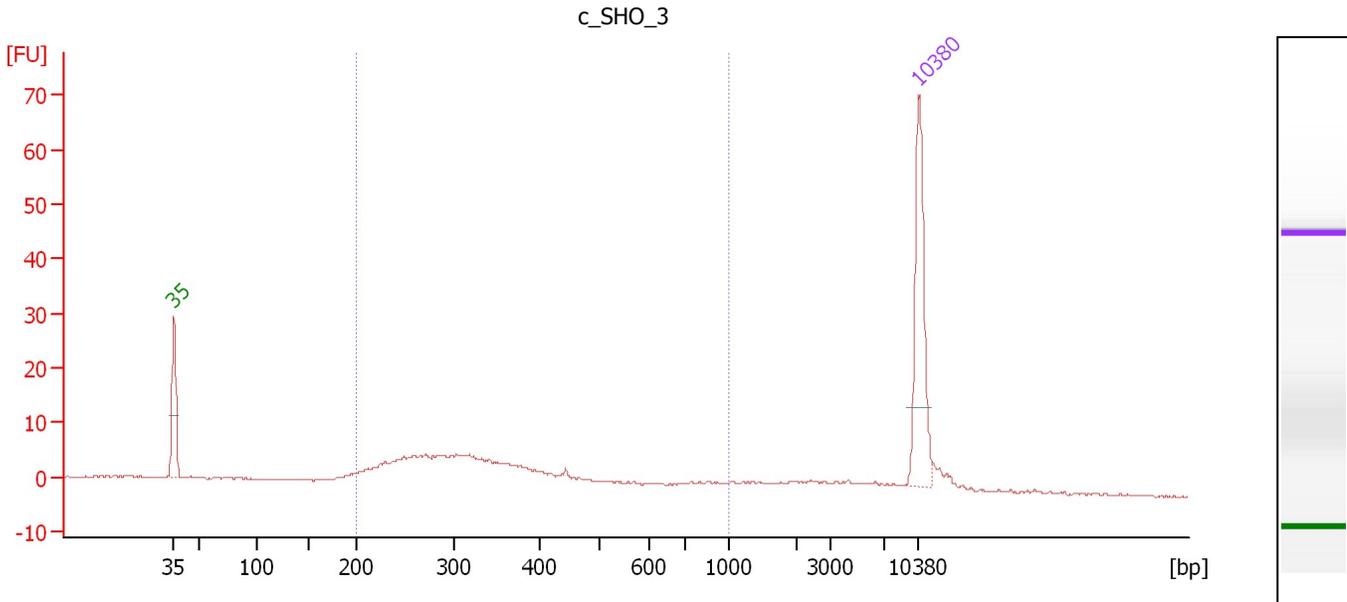
Region table for sample 6 : c_SHO_2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	449	599.4	5,457.3	1,387.20	91	34.6

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Electropherogram Summary Continued ...



Overall Results for sample 7 : c_SHO_3

Number of peaks found: 0 Corr. Area 1: 129.0
 Noise: 0.2

Peak table for sample 7 : c_SHO_3

Pea k	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	10,380	75.00	10.9	Upper Marker	113.00

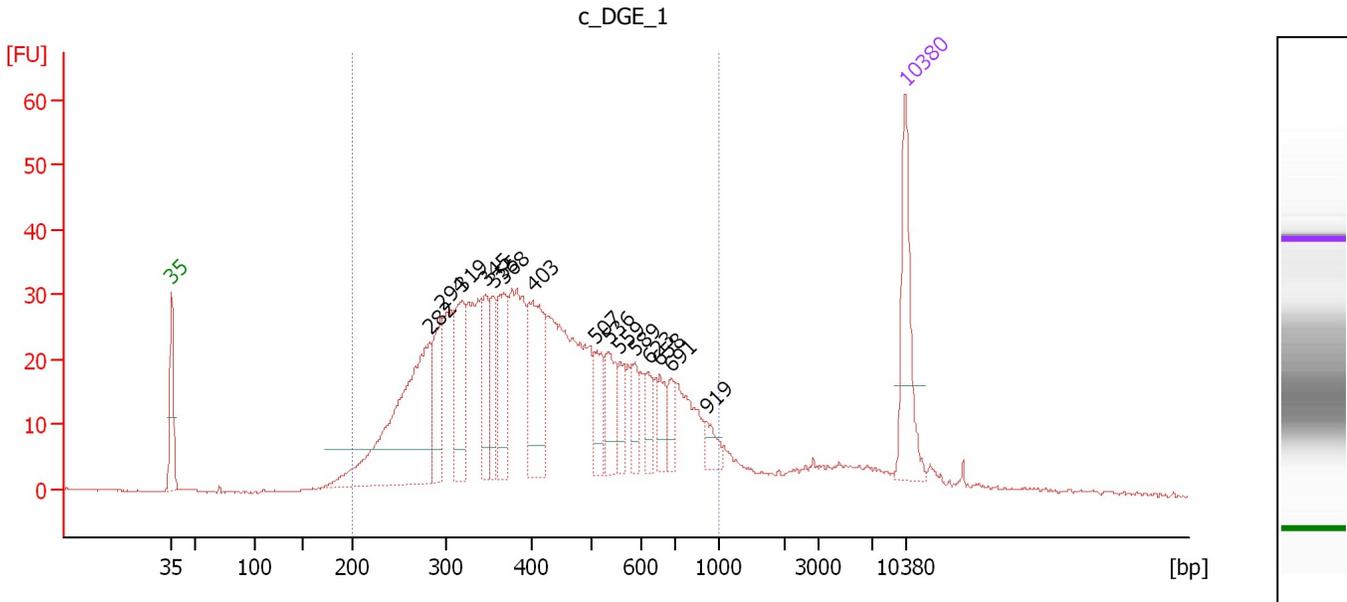
Region table for sample 7 : c_SHO_3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	361	129.0	1,144.5	235.20	70	41.0

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Electropherogram Summary Continued ...



Overall Results for sample 8 : c_DGE_1

Number of peaks found: 15 Corr. Area 1: 937.5
 Noise: 0.2

Peak table for sample 8 : c_DGE_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	282	301.69	1,623.3		67.60
3	294	79.26	407.9		68.76
4	319	94.36	448.5		70.79
5	345	62.41	273.9		72.91
6	355	52.83	225.7		73.67
7	368	75.66	311.6		74.74
8	403	123.90	466.4		77.47
9	507	40.20	120.1		83.39
10	536	51.43	145.4		84.76
11	559	27.88	75.6		85.82
12	589	26.04	67.0		87.24
13	623	22.07	53.7		88.50
14	658	24.94	57.5		89.62
15	691	20.51	45.0		90.68
16	919	17.34	28.6		94.02
17	10,380	75.00	10.9	Upper Marker	113.00

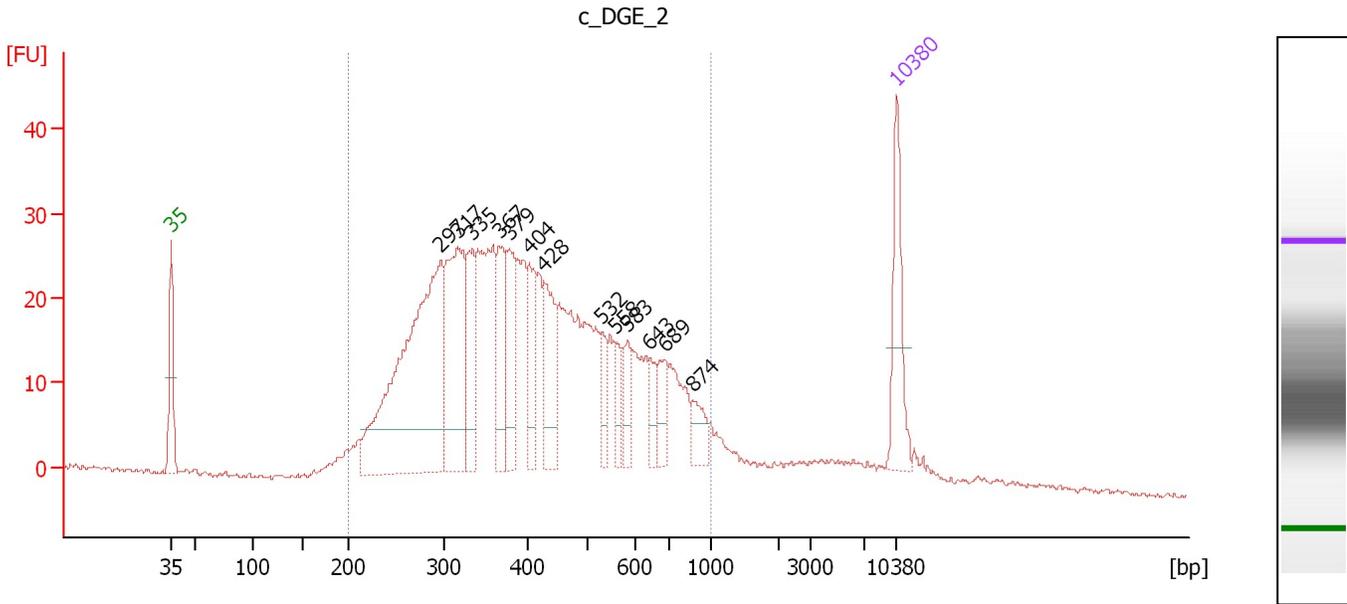
Region table for sample 8 : c_DGE_1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	440	937.5	7,859.5	1,938.75	90	36.5

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Electropherogram Summary Continued ...



Overall Results for sample 9 : c_DGE_2

Number of peaks found: 13 Corr. Area 1: 815.1
 Noise: 0.3

Peak table for sample 9 : c_DGE_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	297	538.55	2,746.1		69.01
3	317	233.31	1,114.6		70.65
4	335	96.25	435.4		72.09
5	367	90.54	374.1		74.65
6	379	91.34	364.7		75.67
7	404	75.99	284.8		77.56
8	428	96.32	340.7		78.95
9	532	33.90	96.5		84.58
10	558	30.26	82.1		85.81
11	583	31.26	81.2		86.99
12	643	28.36	66.9		89.14
13	689	36.00	79.2		90.62
14	874	31.02	53.8		93.39
15	10,380	75.00	10.9	Upper Marker	113.00

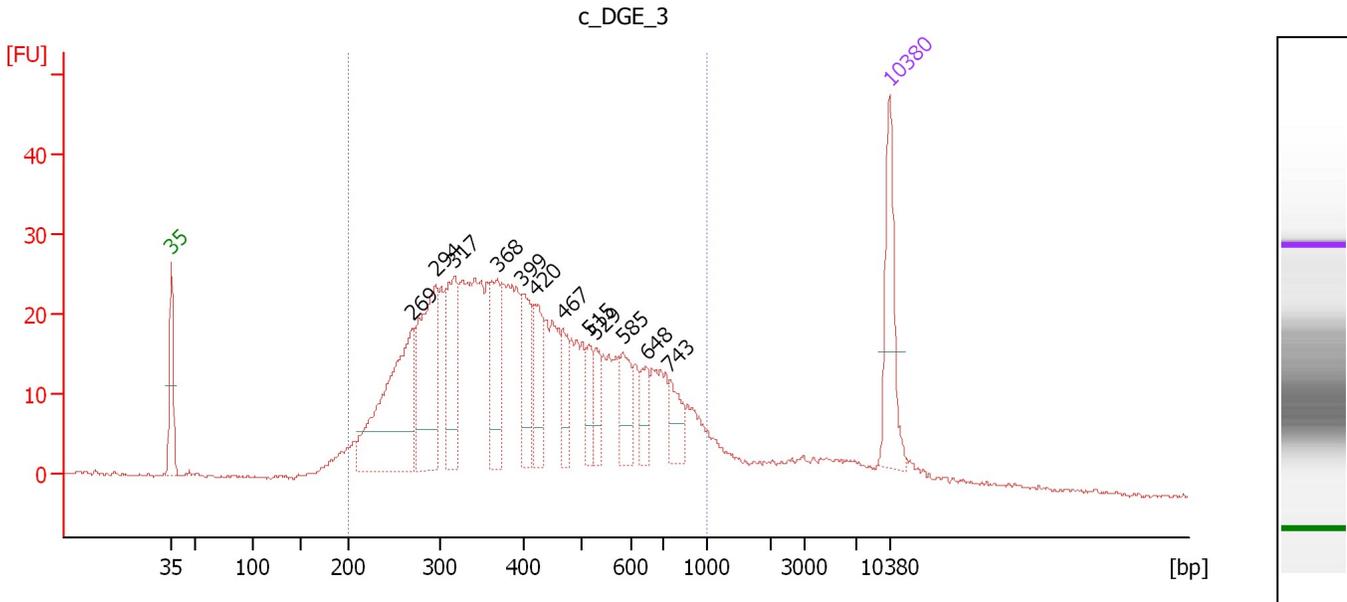
Region table for sample 9 : c_DGE_2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	433	815.1	9,955.2	2,424.10	92	36.6

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Electropherogram Summary Continued ...



Overall Results for sample 10 : c_DGE_3

Number of peaks found: 12 Corr. Area 1: 792.2
 Noise: 0.2

Peak table for sample 10 : c_DGE_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	269	260.84	1,470.3		66.44
3	294	190.55	980.6		68.76
4	317	116.75	558.3		70.63
5	368	82.91	341.1		74.77
6	399	66.69	253.2		77.25
7	420	64.53	232.6		78.49
8	467	39.17	127.0		81.18
9	515	28.95	85.2		83.77
10	529	29.55	84.6		84.44
11	585	41.43	107.2		87.08
12	648	28.46	66.6		89.30
13	743	34.49	70.3		91.58
14	10,380	75.00	10.9	Upper Marker	113.00

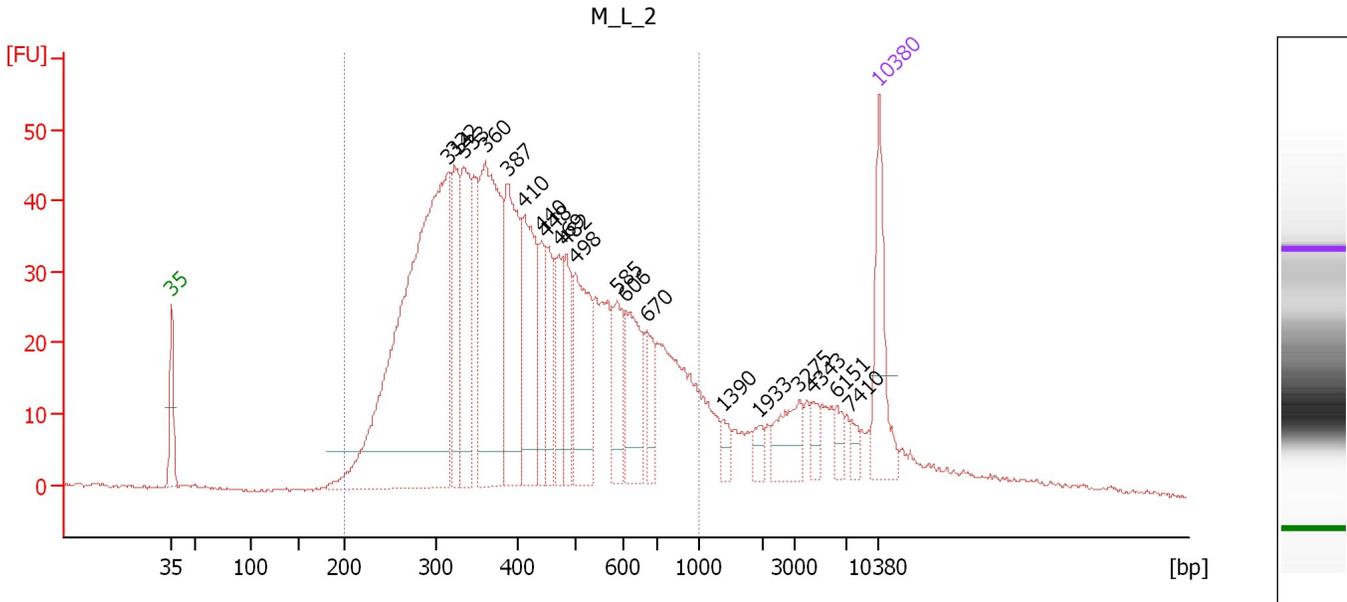
Region table for sample 10 : c_DGE_3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	434	792.2	8,551.7	2,063.36	88	37.5

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Electropherogram Summary Continued ...



Overall Results for sample 11 : M L 2

Number of peaks found: 20 Corr. Area 1: 1,293.3
 Noise: 0.2

Peak table for sample 11 : M L 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	314	787.92	3,803.2		70.39
3	322	125.07	589.0		71.02
4	333	142.46	647.3		71.97
5	360	306.26	1,290.6		74.06
6	387	181.77	711.8		76.27
7	410	153.80	568.4		77.90
8	440	63.87	219.9		79.63
9	448	57.15	193.1		80.10
10	469	54.72	176.6		81.31
11	482	68.46	215.1		82.04
12	498	132.35	402.9		82.93
13	585	62.05	160.6		87.08
14	606	91.77	229.3		87.97
15	670	38.97	88.1		90.02
16	1,390	13.63	14.9		97.63
17	1,933	14.26	11.2		101.09
18	3,275	43.59	20.2		105.08
19	4,343	13.86	4.8		106.44
20	6,151	13.11	3.2		108.75
21	7,410	9.63	2.0		110.22
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-13\2017-11-13_001.xad

Created: 11/13/2017 10:42:01 AM
Modified: 11/13/2017 11:23:20 AM

Electropherogram Summary Continued ...

... Region table for sample 11 : M L 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	437	1,293.3	11,315.8	2,782.75	85	37.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-13\2017-11-13_001.xad

Created: 11/13/2017 10:42:01 AM
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Gel Image