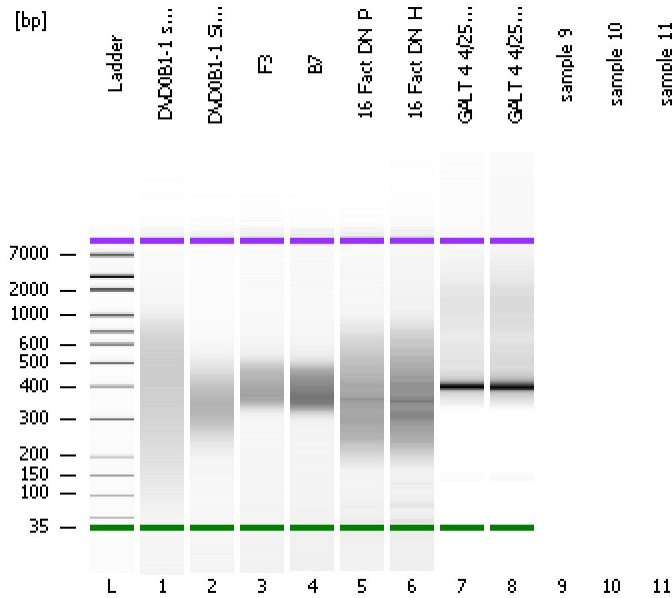


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
Modified: 5/1/2017 12:03:41 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

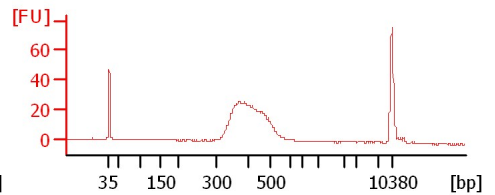
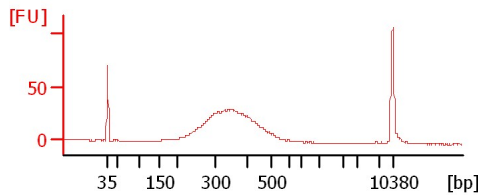
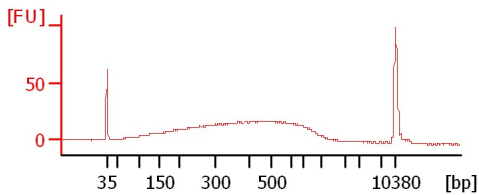
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

DVD0B1-1 soni 50sec

DVD0B1-1 Size Sel. soni 50sec

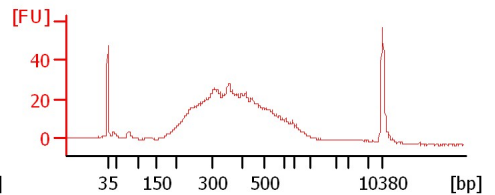
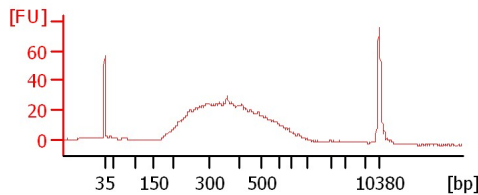
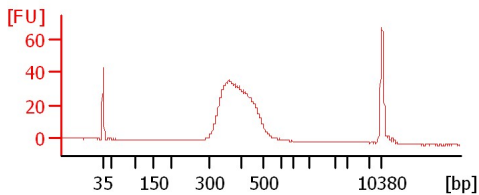
F3



B7

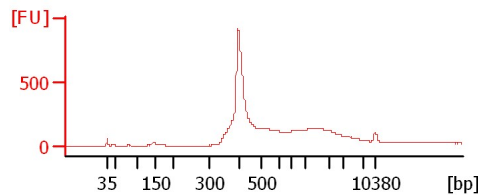
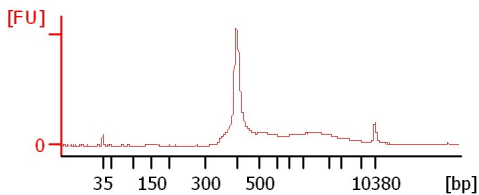
16 Fact DN_P

16 Fact DN_H



GALT 4 4/25/17 (1:3)

GALT 4 4/25/17



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DVD0B1-1 soni 50sec		<input type="checkbox"/>				
DVD0B1-1 Size Sel. soni 50sec		<input type="checkbox"/>				
F3		<input type="checkbox"/>				
B7		<input type="checkbox"/>				
16 Fact DN_P		<input type="checkbox"/>				
16 Fact DN_H		<input type="checkbox"/>				
GALT 4 4/25/17 (1:3)		<input type="checkbox"/>				
GALT 4 4/25/17		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

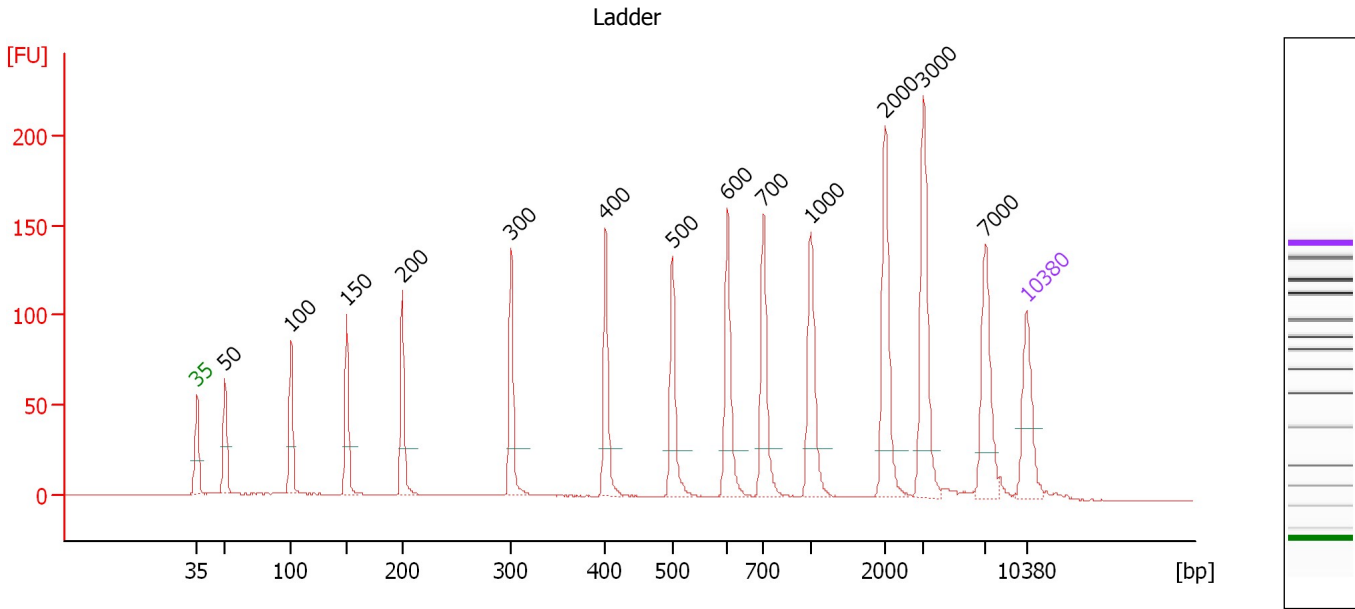
Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

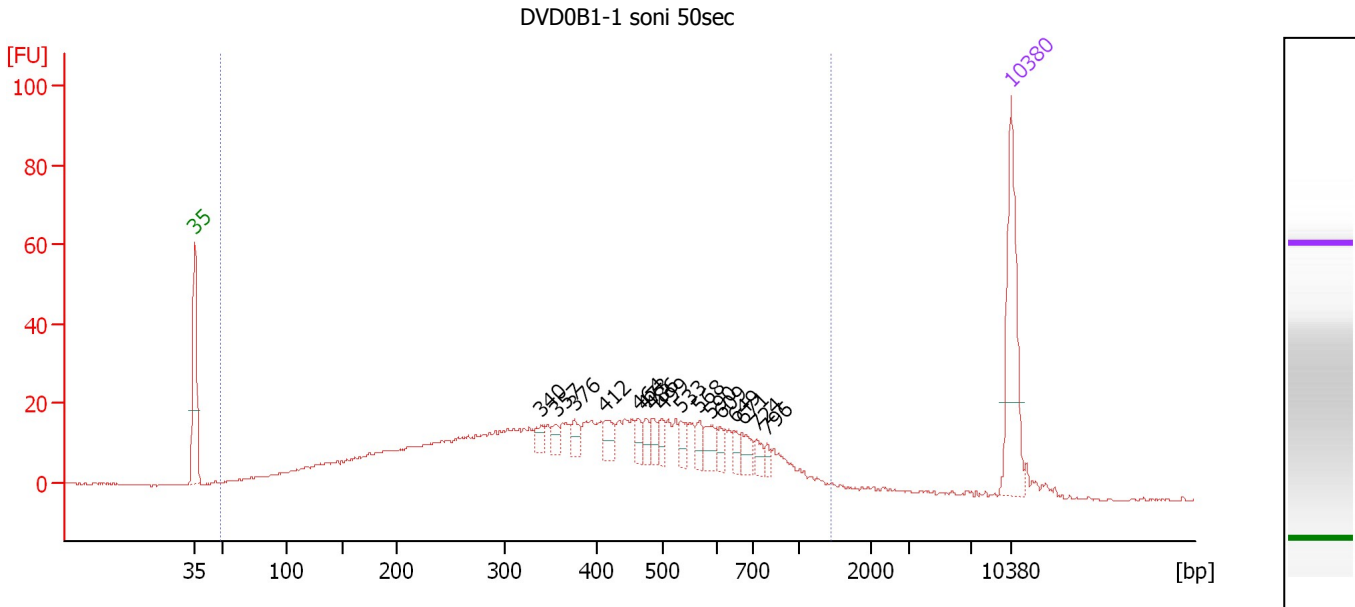
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.92
4	150	150.00	1,515.2	Ladder Peak	55.65
5	200	150.00	1,136.4	Ladder Peak	60.33
6	300	150.00	757.6	Ladder Peak	69.51
7	400	150.00	568.2	Ladder Peak	77.48
8	500	150.00	454.5	Ladder Peak	83.11
9	600	150.00	378.8	Ladder Peak	87.79
10	700	150.00	324.7	Ladder Peak	90.81
11	1,000	150.00	227.3	Ladder Peak	94.81
12	2,000	150.00	113.6	Ladder Peak	101.07
13	3,000	150.00	75.8	Ladder Peak	104.31
14	7,000	150.00	32.5	Ladder Peak	109.58
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : DVD0B1-1 soni 50sec

Number of peaks found: 16 Corr. Area 1: 845.3
 Noise: 0.3

Peak table for sample 1 : DVD0B1-1 soni 50sec

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	340	11.51	51.2		72.74
3	357	9.98	42.4		74.02
4	376	11.79	47.5		75.58
5	412	16.22	59.7		78.14
6	464	10.46	34.2		81.07
7	473	11.24	36.0		81.61
8	486	12.15	37.9		82.35
9	499	11.42	34.6		83.08
10	533	10.87	30.9		84.63
11	568	11.17	29.8		86.28
12	590	16.65	42.7		87.33
13	609	10.05	25.0		88.07
14	649	9.00	21.0		89.25
15	671	14.24	32.1		89.94
16	724	9.20	19.2		91.13
17	796	5.82	11.1		92.09
18	10,380	75.00	10.9	Upper Marker	113.00

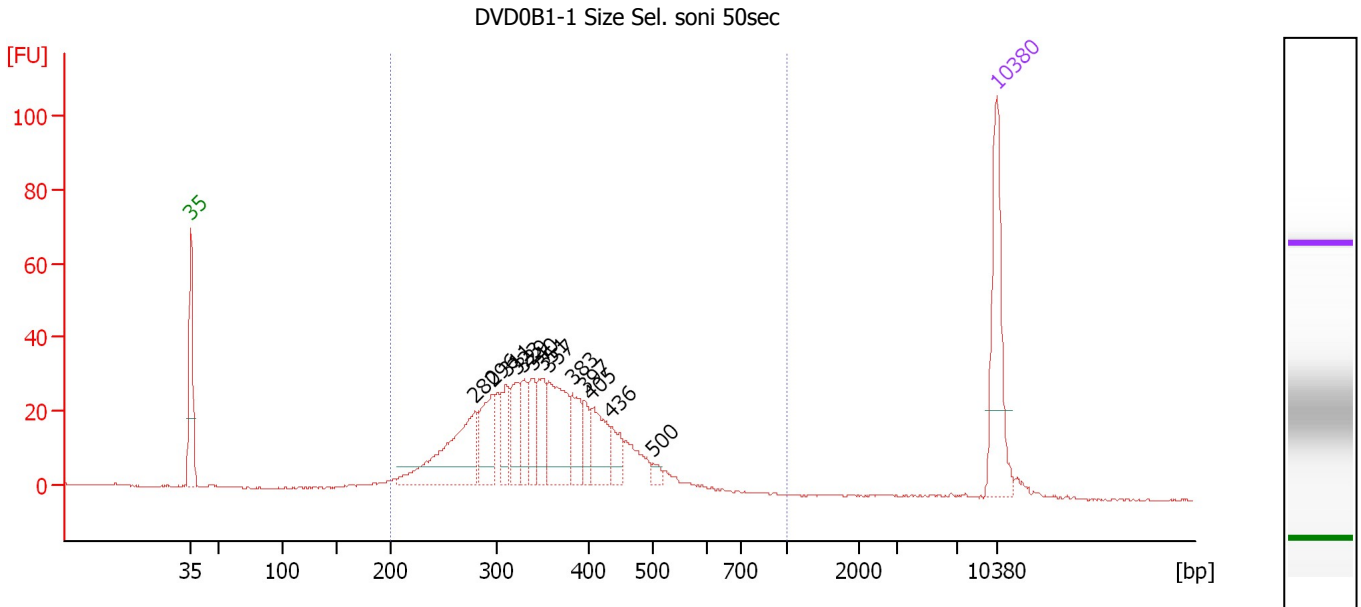
Region table for sample 1 : DVD0B1-1 soni 50sec

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
49	1,432	421	845.3	6,768.5	1,170.51	96	51.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : DVD0B1-1 Size Sel. soni 50sec

Number of peaks found: 13 Corr. Area 1: 629.2
 Noise: 0.2

Peak table for sample 2 : DVD0B1-1 Size Sel. soni 50sec

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	280	128.22	693.9		67.68
3	296	60.16	307.8		69.16
4	311	32.98	160.8		70.36
5	323	37.73	176.8		71.38
6	329	31.43	144.7		71.84
7	340	35.32	157.3		72.72
8	351	38.88	168.0		73.56
9	357	82.58	350.4		74.06
10	383	38.37	151.7		76.15
11	397	19.52	74.6		77.21
12	405	45.45	170.0		77.77
13	436	23.67	82.3		79.48
14	500	7.49	22.7		83.09
15	10,380	75.00	10.9	Upper Marker	113.00

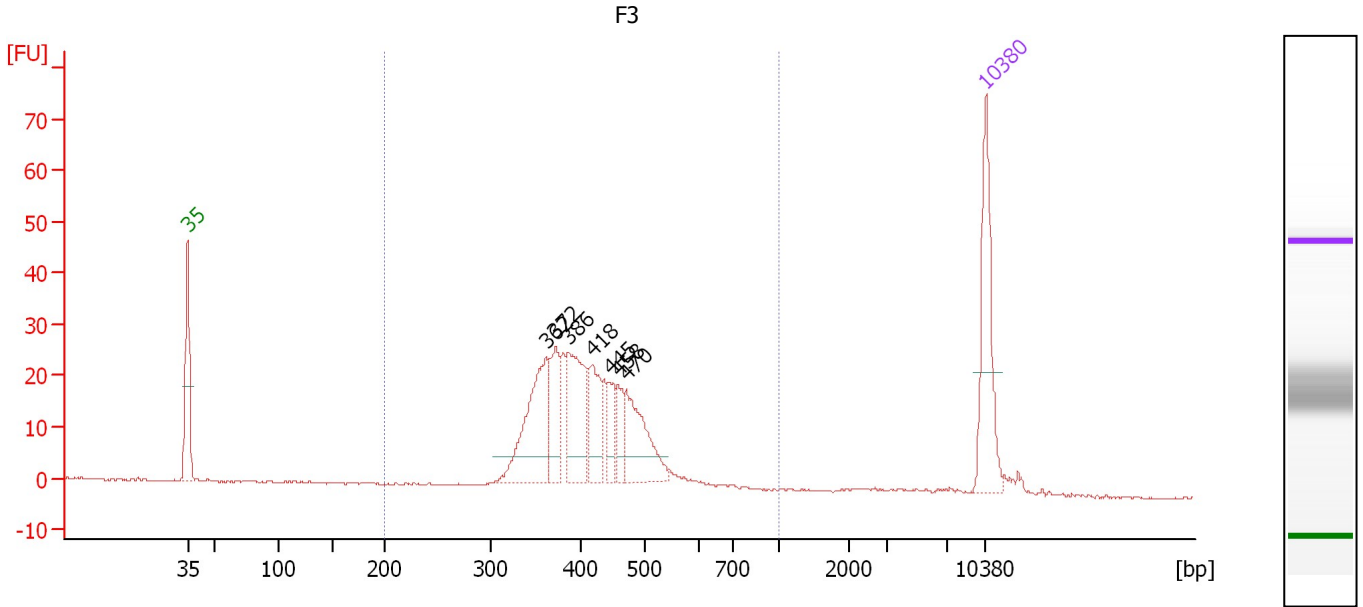
Region table for sample 2 : DVD0B1-1 Size Sel. soni 50sec

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	356	629.2	3,381.4	744.35	97	22.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : F3

Number of peaks found: 7 Corr. Area 1: 350.6
 Noise: 0.2

Peak table for sample 3 : F3

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	362	119.98	502.7		74.42
3	372	49.65	202.2		75.26
4	386	93.84	368.1		76.39
5	418	53.53	194.1		78.49
6	445	25.18	85.7		80.03
7	458	25.51	84.4		80.74
8	470	75.68	243.8		81.44
9	10,380	75.00	10.9	Upper Marker	113.00

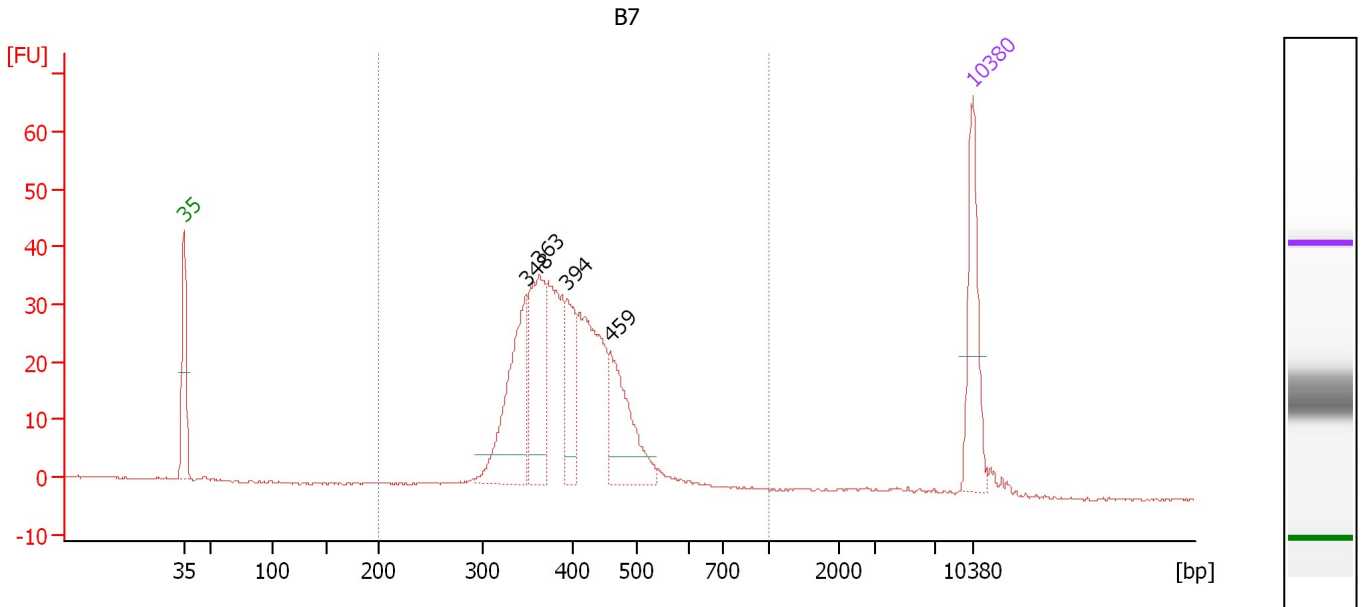
Region table for sample 3 : F3

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	418	350.6	2,077.7	556.56	96	16.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : B7

Number of peaks found: 4 Corr. Area 1: 478.4
 Noise: 0.1

Peak table for sample 4 : B7

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	348	160.60	698.6		73.36
3	363	136.05	567.6		74.55
4	394	73.10	281.1		77.01
5	459	109.92	363.0		80.79
6	10,380	75.00	10.9	Upper Marker	113.00

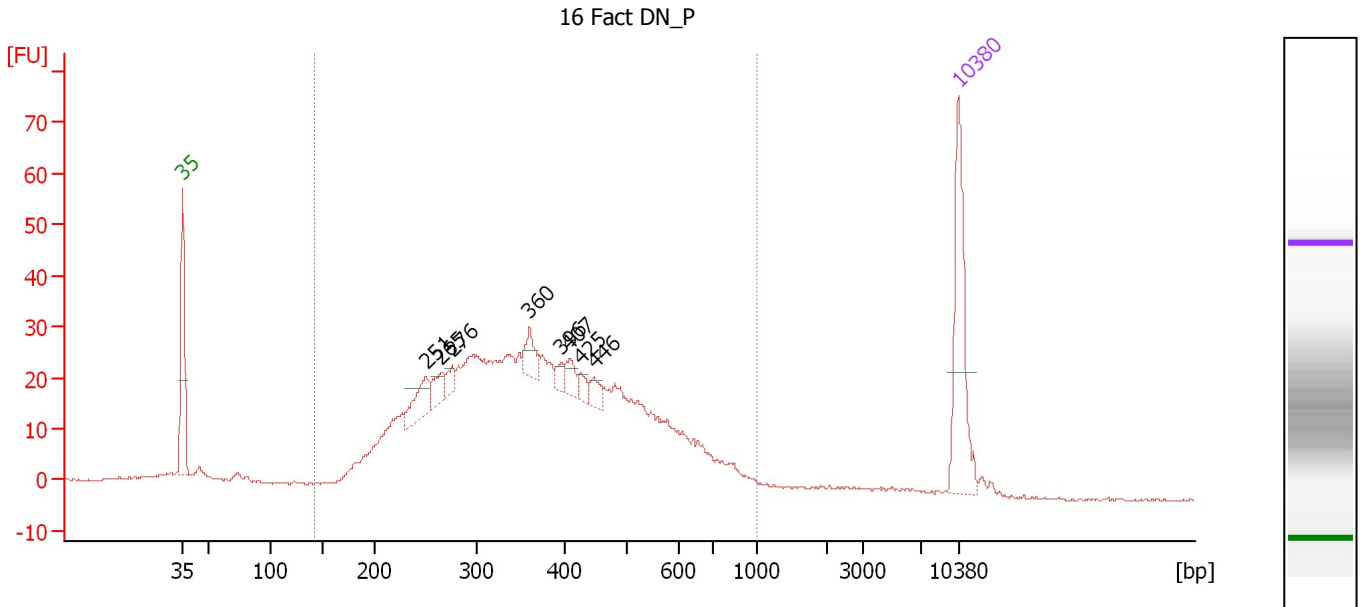
Region table for sample 4 : B7

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	403	478.4	3,196.7	826.61	97	16.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 16 Fact DN P

Number of peaks found: 8 Corr. Area 1: 860.5
 Noise: 0.2

Peak table for sample 5 : 16 Fact DN P

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	251	33.54	202.7		64.99
3	265	19.03	108.7		66.33
4	276	10.93	59.9		67.34
5	360	20.61	86.8		74.27
6	396	7.93	30.3		77.16
7	407	14.11	52.5		77.88
8	425	9.09	32.4		78.89
9	446	10.46	35.5		80.09
10	10,380	75.00	10.9	Upper Marker	113.00

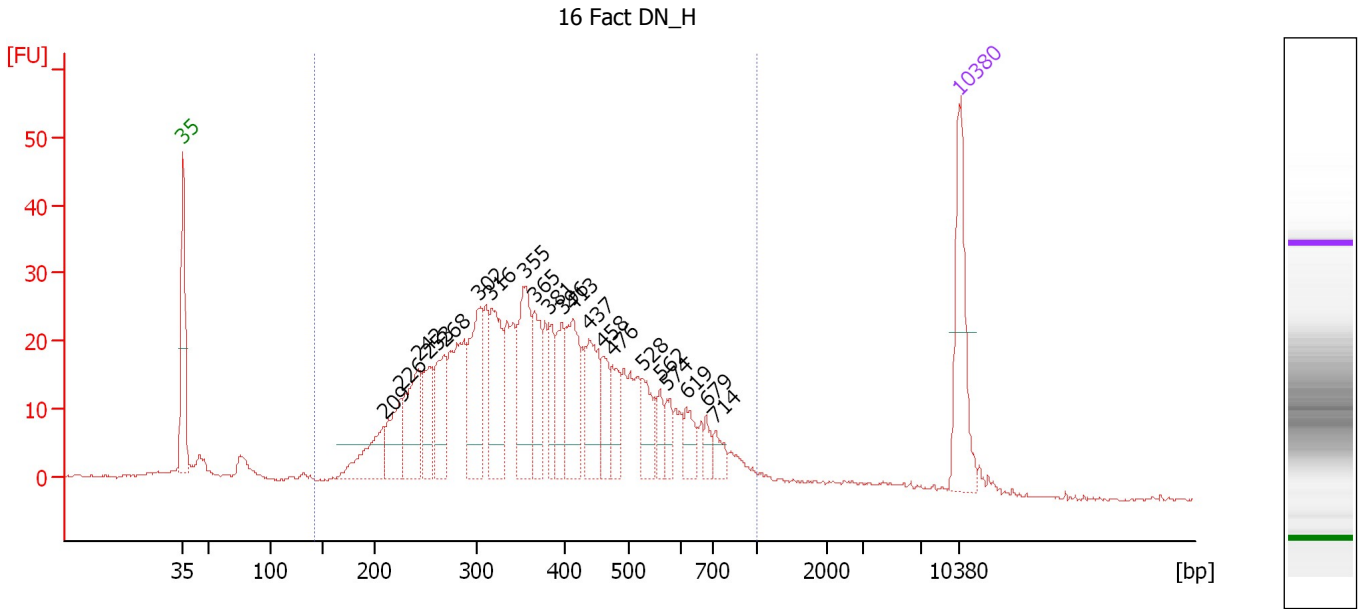
Region table for sample 5 : 16 Fact DN P

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
141	1,000	389	860.5	6,272.8	1,368.75	94	35.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 16 Fact DN_H

Number of peaks found: 21 Corr. Area 1: 802.9
 Noise: 0.2

Peak table for sample 6 : 16 Fact DN_H

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	209	64.45	468.3		61.11
3	226	57.86	388.3		62.70
4	242	85.42	534.8		64.19
5	253	50.54	302.7		65.20
6	268	67.71	382.6		66.59
7	302	97.53	488.5		69.71
8	316	96.04	460.0		70.82
9	355	101.93	435.1		73.89
10	365	59.63	247.4		74.71
11	381	36.88	146.5		76.01
12	396	49.55	189.6		77.16
13	413	79.81	292.8		78.22
14	437	69.60	241.3		79.56
15	458	34.99	115.7		80.76
16	476	35.57	113.2		81.77
17	528	37.14	106.6		84.41
18	562	17.62	47.5		86.00
19	574	19.38	51.2		86.58
20	619	23.40	57.3		88.35
21	679	13.33	29.7		90.18
22	714	15.04	31.9		91.00
23	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...

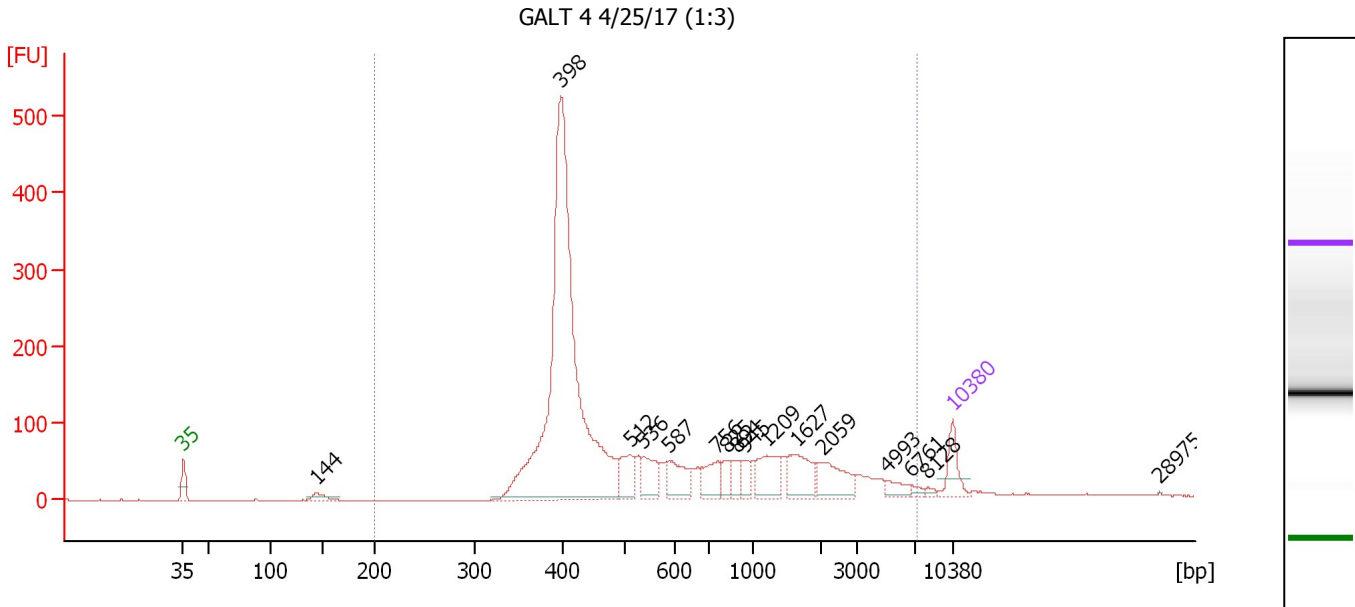
... Region table for sample 6 : 16 Fact DN H

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
141	1,000	397	802.9	7,511.8	1,667.46	92	35.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : GALT 4 4/25/17 (1:3)

Number of peaks found: 16 Corr. Area 1: 2,979.6
 Noise: 0.3

Peak table for sample 7 : GALT 4 4/25/17 (1:3)

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	144	46.62	489.0		55.13
3	398	2,079.44	7,910.7		77.35
4	512	111.37	329.9		83.65
5	536	111.89	316.0		84.82
6	587	120.73	311.5		87.19
7	756	96.36	193.0		91.56
8	825	50.46	92.6		92.48
9	894	41.75	70.7		93.40
10	945	47.81	76.6		94.08
11	1,209	122.35	153.4		96.12
12	1,627	117.55	109.5		98.74
13	2,059	110.62	81.4		101.26
14	4,993	34.21	10.4		106.94
15	6,761	13.43	3.0		109.26
16	8,128	10.11	1.9		110.72
17	10,380	75.00	10.9	Upper Marker	113.00
18	28,975	0.00	0.0		131.82

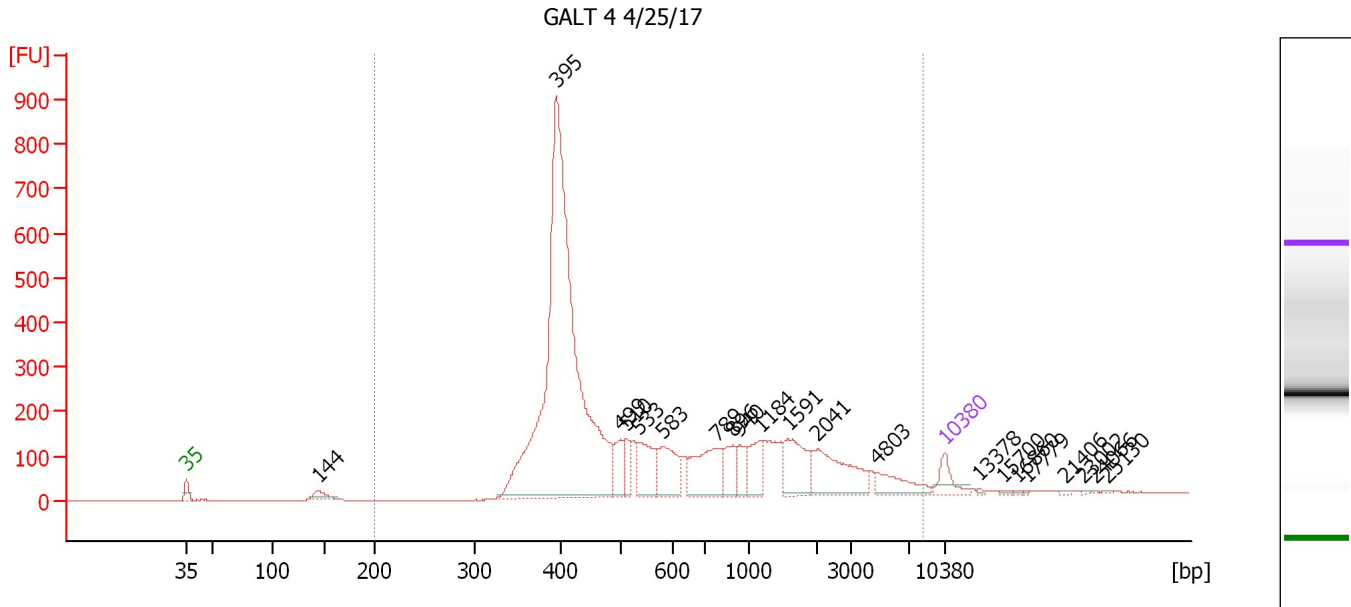
Region table for sample 7 : GALT 4 4/25/17 (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	7,124	901	2,979.6	9,627.5	3,204.92	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
 Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : GALT 4 4/25/17

Number of peaks found: 21 Corr. Area 1: 6,273.7
 Noise: 0.8

Peak table for sample 8 : GALT 4 4/25/17

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	144	59.73	628.0		55.09
3	395	3,359.06	12,870.4		77.12
4	499	133.15	404.4		83.04
5	510	91.73	272.5		83.58
6	533	220.74	627.4		84.66
7	583	230.05	597.6		87.01
8	789	303.31	582.2		92.00
9	896	130.70	221.1		93.42
10	940	89.69	144.6		94.01
11	1,184	135.44	173.3		95.97
12	1,591	212.17	202.1		98.51
13	2,041	294.09	218.3		101.20
14	4,803	118.17	37.3		106.69
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,378	0.00	0.0		116.03
17	15,700	0.00	0.0		118.38
18	16,860	0.00	0.0		119.56
19	17,779	0.00	0.0		120.49
20	21,406	0.00	0.0		124.16
21	23,002	0.00	0.0		125.78
22	24,066	0.00	0.0		126.85
23	25,130	0.00	0.0		127.93

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
Modified: 5/1/2017 12:03:41 PM

Electropherogram Summary Continued ...

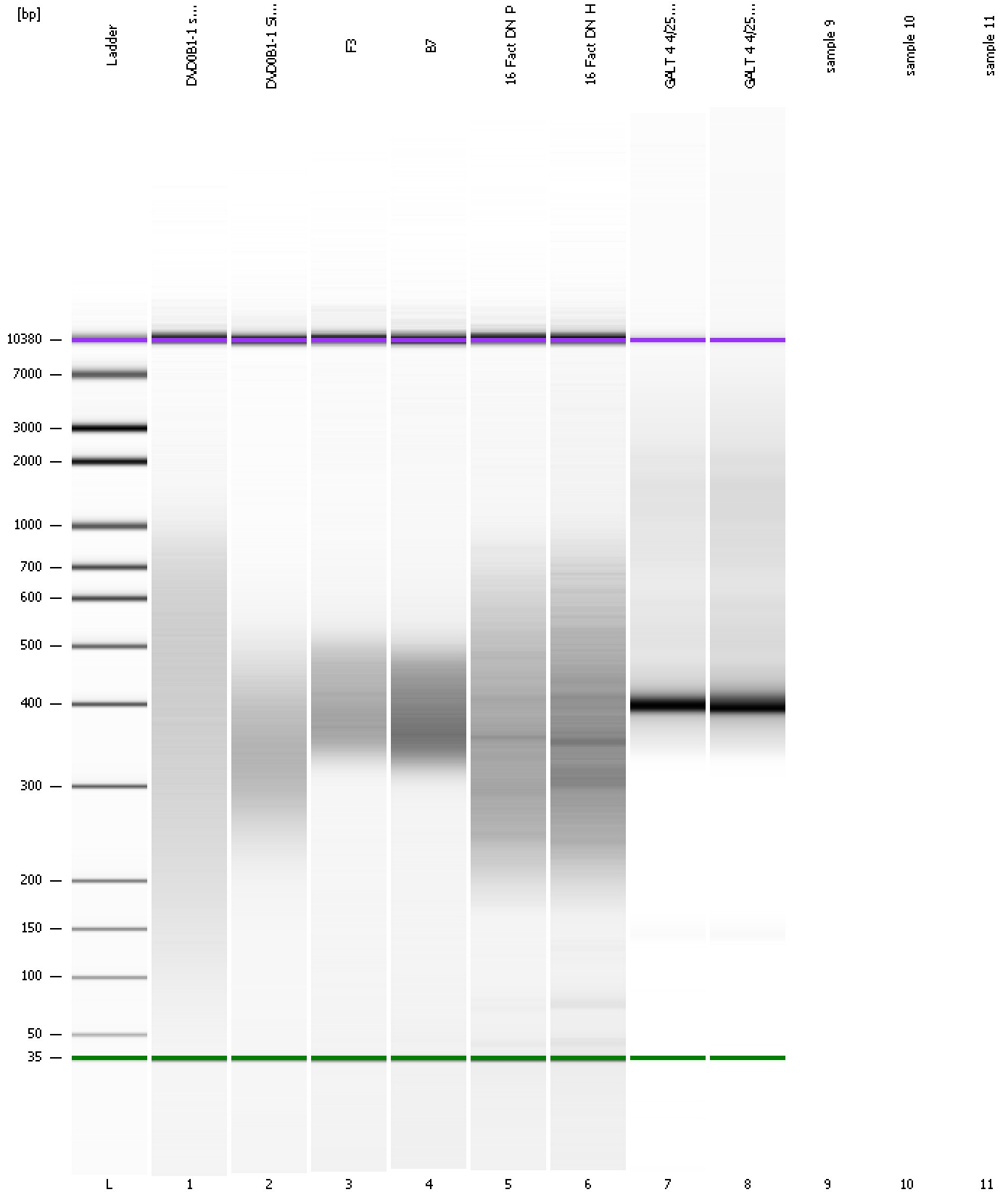
... Region table for sample 8 : GALT 4 4/25/17

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,268	972	6,273.7	16,444.3	5,611.51	98	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
Modified: 5/1/2017 12:03:41 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-01\2017-05-01_001.xad

Created: 5/1/2017 11:14:56 AM
Modified: 5/1/2017 12:03:41 PM

Invalid Samples

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.