

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
Modified: 11/7/2018 4:31:18 PM

Electrophoresis File Run Summary

Instrument Information:

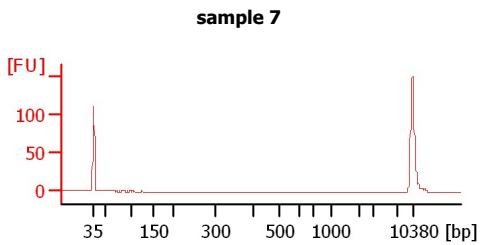
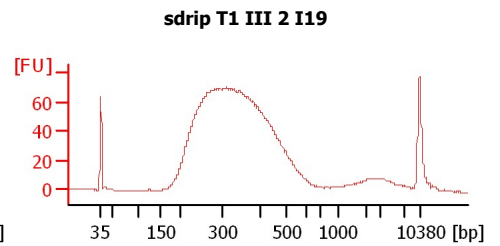
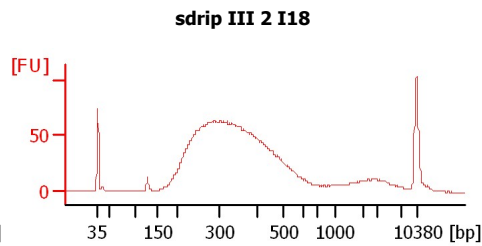
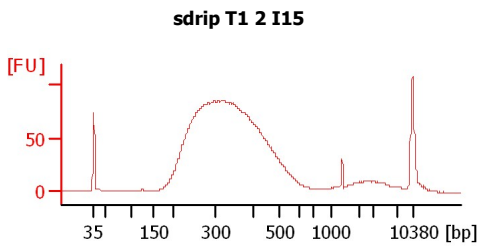
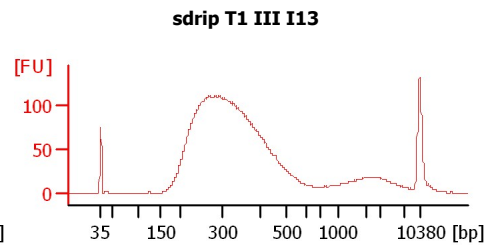
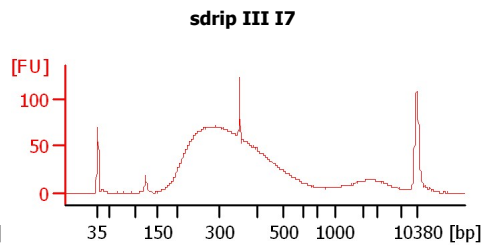
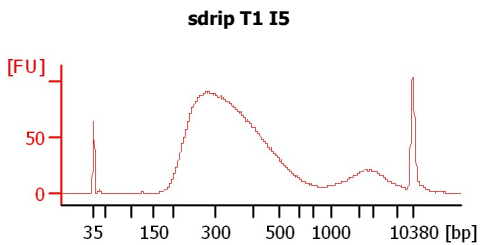
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sdrip T1 I5		<input type="checkbox"/>	✓			
sdrip III I7		<input type="checkbox"/>	✓			
sdrip T1 III I13		<input type="checkbox"/>	✓			
sdrip T1 2 I15		<input type="checkbox"/>	✓			
sdrip III 2 I18		<input type="checkbox"/>	✓			
sdrip T1 III 2 I19		<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 :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
Modified: 11/7/2018 4:31:18 PM

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

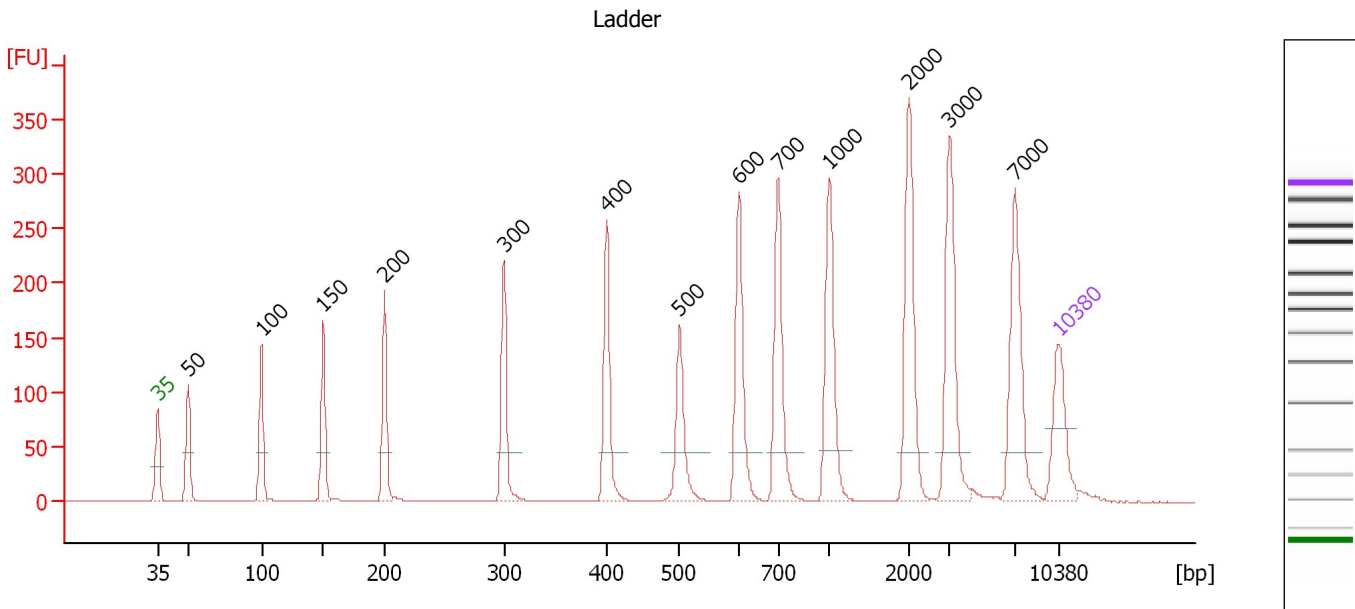
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

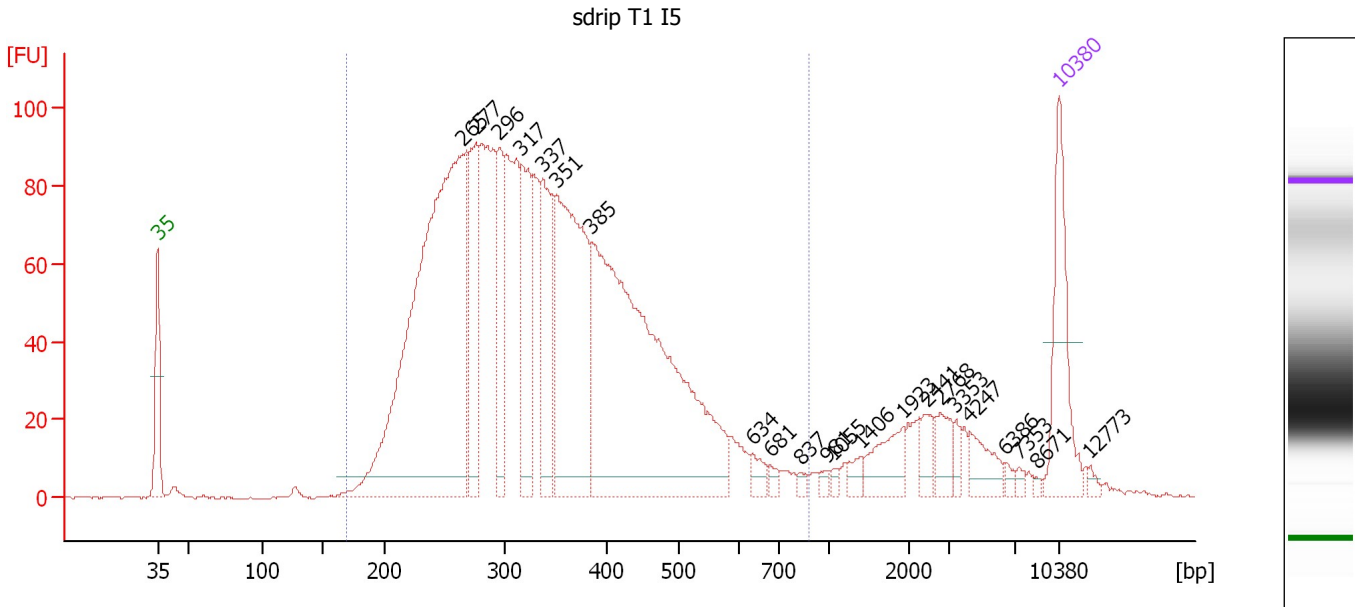
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.08
4	150	150.00	1,515.2	Ladder Peak	55.89
5	200	150.00	1,136.4	Ladder Peak	60.66
6	300	150.00	757.6	Ladder Peak	69.90
7	400	150.00	568.2	Ladder Peak	77.88
8	500	150.00	454.5	Ladder Peak	83.57
9	600	150.00	378.8	Ladder Peak	88.14
10	700	150.00	324.7	Ladder Peak	91.21
11	1,000	150.00	227.3	Ladder Peak	95.20
12	2,000	150.00	113.6	Ladder Peak	101.37
13	3,000	150.00	75.8	Ladder Peak	104.54
14	7,000	150.00	32.5	Ladder Peak	109.59
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sdrip T1 I5

Number of peaks found: 22 Corr. Area 1: 2,415.6
 Noise: 0.3

Peak table for sample 1 : sdrip T1 I5

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	265	708.14	4,041.4		66.71
3	277	137.39	752.4		67.74
4	296	93.68	479.0		69.56
5	317	110.09	525.6		71.29
6	337	111.07	499.3		72.86
7	351	281.58	1,216.7		73.94
8	385	570.11	2,242.6		76.70
9	634	13.20	31.5		89.19
10	681	5.74	12.8		90.62
11	837	4.54	8.2		93.03
12	981	5.18	8.0		94.95
13	1,055	4.30	6.2		95.54
14	1,406	9.07	9.8		97.70
15	1,923	33.54	26.4		100.90
16	2,441	15.59	9.7		102.77
17	2,768	19.55	10.7		103.80
18	3,353	8.63	3.9		104.98
19	4,247	23.93	8.5		106.11
20	6,386	4.42	1.0		108.82
21	7,353	3.84	0.8		109.95
22	8,671	2.09	0.4		111.28
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,773	0.00	0.0		115.41

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...

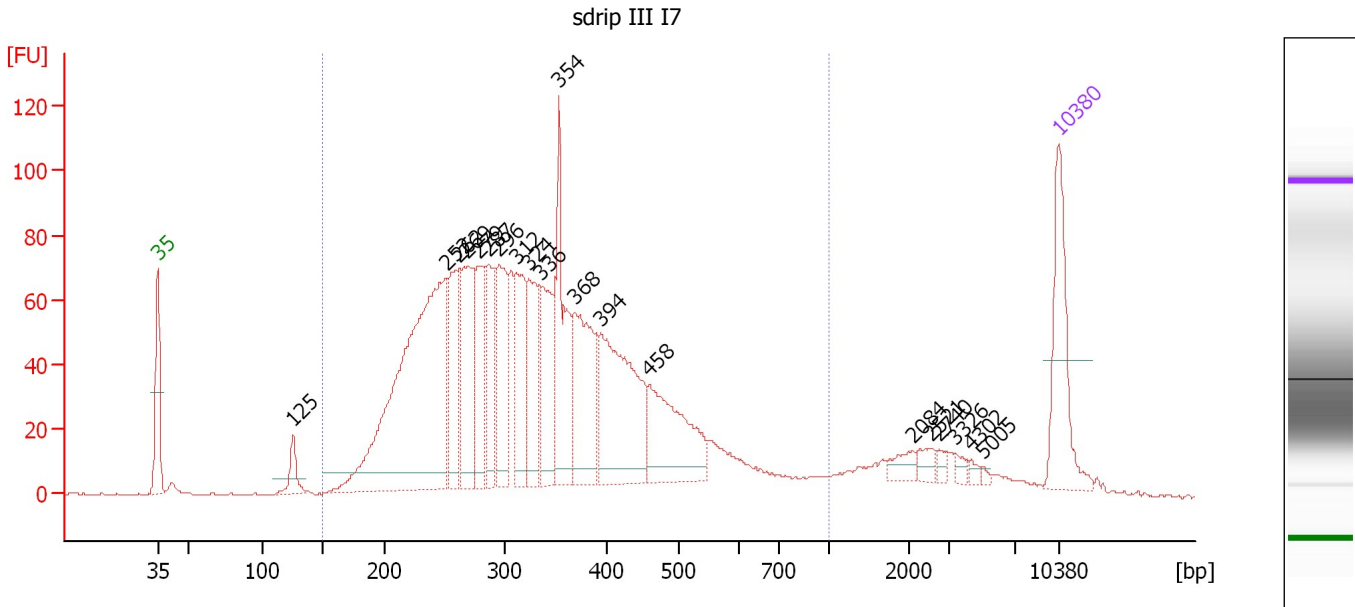
... Region table for sample 1 : sdrip T1 I5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
169	885	348	2,608.67	2,415.6	12,690.0	 89	30.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sdrip III I7

Number of peaks found: 20 Corr. Area 1: 2,043.7
 Noise: 0.3

Peak table for sample 2 : sdrip III I7


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	125	28.68	346.4		53.52
3	252	485.29	2,916.2		65.48
4	262	101.62	588.2		66.37
5	269	129.76	730.2		67.06
6	279	88.29	478.8		68.00
7	287	70.48	371.5		68.74
8	296	99.64	510.1		69.53
9	312	87.41	424.4		70.86
10	324	86.57	404.3		71.85
11	336	102.09	461.0		72.74
12	354	120.18	515.1		74.17
13	368	130.54	536.9		75.36
14	394	178.28	686.0		77.38
15	458	120.42	398.3		81.19
16	2,084	12.66	9.2		101.64
17	2,521	10.24	6.2		103.02
18	2,740	4.71	2.6		103.71
19	3,326	5.79	2.6		104.95
20	4,302	4.17	1.5		106.18
21	5,005	2.59	0.8		107.07
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...

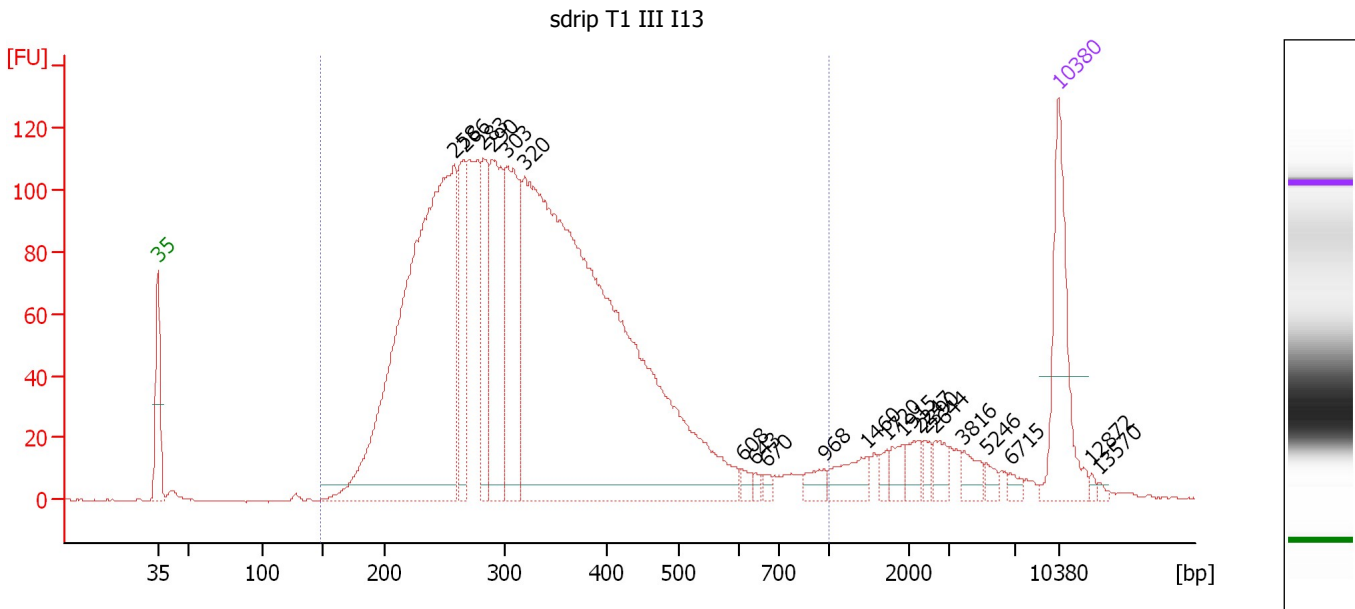
... Region table for sample 2 : sdrip III I7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
150	1,000	347	2,120.06	2,043.7	10,597.3	 91	34.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sdrip T1 III I13

Number of peaks found: 21 Corr. Area 1: 2,923.0
 Noise: 0.3

Peak table for sample 3 : sdrip T1 III I13

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	258	687.31	4,031.3		66.05
3	266	92.96	528.6		66.80
4	283	89.61	480.1		68.31
5	290	154.31	806.7		68.96
6	303	165.20	826.9		70.12
7	320	1,049.75	4,975.1		71.47
8	608	6.49	16.2		88.39
9	643	4.24	10.0		89.45
10	670	4.36	9.9		90.30
11	968	11.78	18.4		94.77
12	1,460	23.21	24.1		98.04
13	1,720	6.62	5.8		99.64
14	1,915	11.35	9.0		100.85
15	2,247	12.59	8.5		102.15
16	2,390	7.63	4.8		102.61
17	2,644	11.82	6.8		103.41
18	3,816	12.23	4.9		105.57
19	5,246	5.78	1.7		107.38
20	6,715	5.05	1.1		109.23
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,872	0.00	0.0		115.51
23	13,570	0.00	0.0		116.21

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...

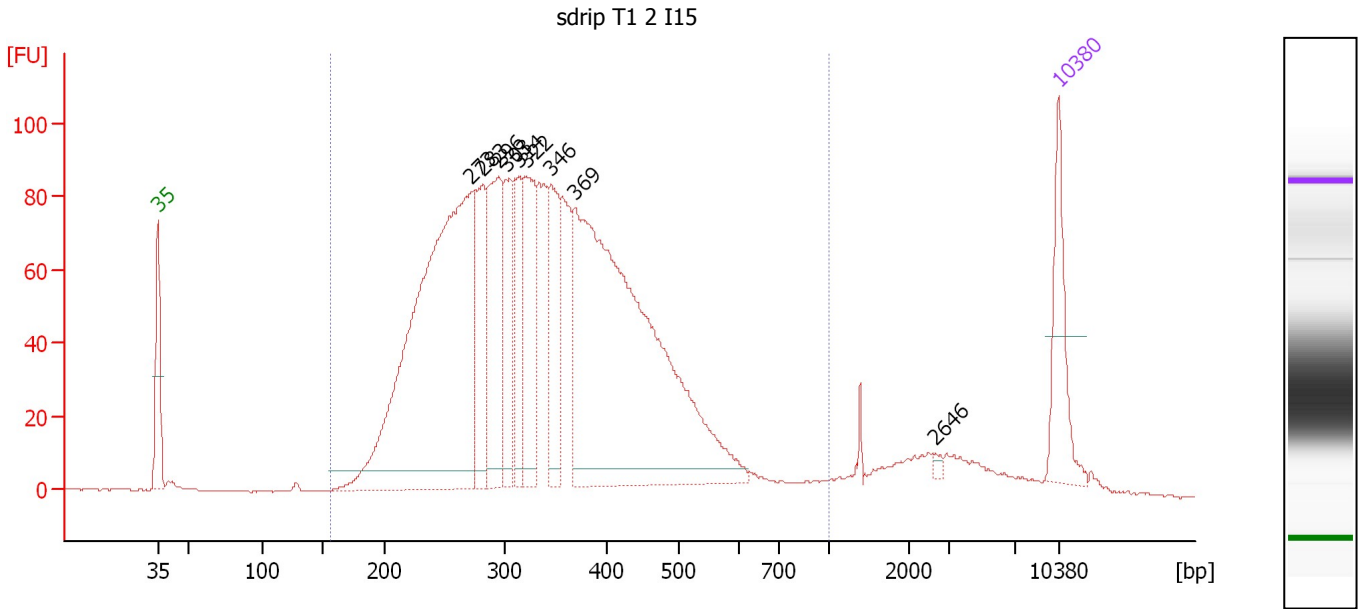
... Region table for sample 3 : sdrip T1 III I13

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co lor % of Total	Size distribution in CV [%]
148	1,000	337	2,371.15	2,923.0	12,033.0	 92	34.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sdrip T1 2 I15

Number of peaks found: 9 Corr. Area 1: 2,339.5
 Noise: 0.3

Peak table for sample 4 : sdrip T1 2 I15

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	273	860.87	4,780.3		67.39
3	283	148.32	794.5		68.31
4	296	195.61	1,002.6		69.49
5	303	120.51	603.4		70.11
6	314	102.21	492.9		71.03
7	322	153.80	724.0		71.65
8	346	125.93	551.0		73.59
9	369	845.53	3,474.0		75.39
10	2,646	4.44	2.5		103.42
11	10,380	75.00	10.9	Upper Marker	113.00

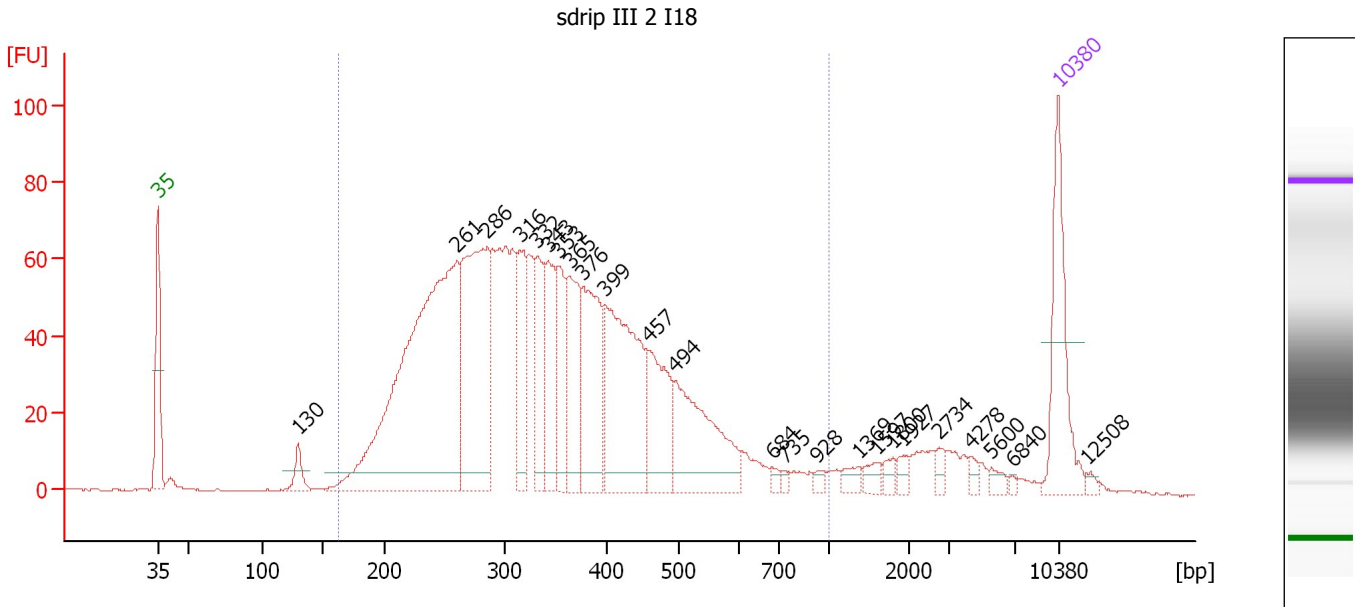
Region table for sample 4 : sdrip T1 2 I15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
156	1,000	347	2,940.79	2,339.5	14,289.3	94	29.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sdrip III 2 I18

Number of peaks found: 24 Corr. Area 1: 1,855.4
 Noise: 0.2

Peak table for sample 5 : sdrip III 2 I18

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	130	19.86	232.2		53.93
3	261	538.58	3,130.8		66.26
4	286	263.31	1,394.5		68.62
5	316	78.45	376.2		71.18
6	332	63.62	290.0		72.48
7	343	84.03	371.3		73.32
8	353	62.24	267.4		74.11
9	365	90.84	377.6		75.05
10	376	120.38	484.7		75.99
11	399	186.16	706.5		77.82
12	457	86.57	287.2		81.11
13	494	126.07	386.3		83.25
14	684	4.64	10.3		90.73
15	735	4.12	8.5		91.67
16	928	4.83	7.9		94.23
17	1,369	8.70	9.6		97.47
18	1,597	8.39	8.0		98.88
19	1,800	7.18	6.0		100.14
20	1,927	6.97	5.5		100.92
21	2,734	6.33	3.5		103.69
22	4,278	5.58	2.0		106.15
23	5,600	6.21	1.7		107.82
24	6,840	2.43	0.5		109.39
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : sdrip III 2 I18

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	12,508	0.00	0.0		115.14

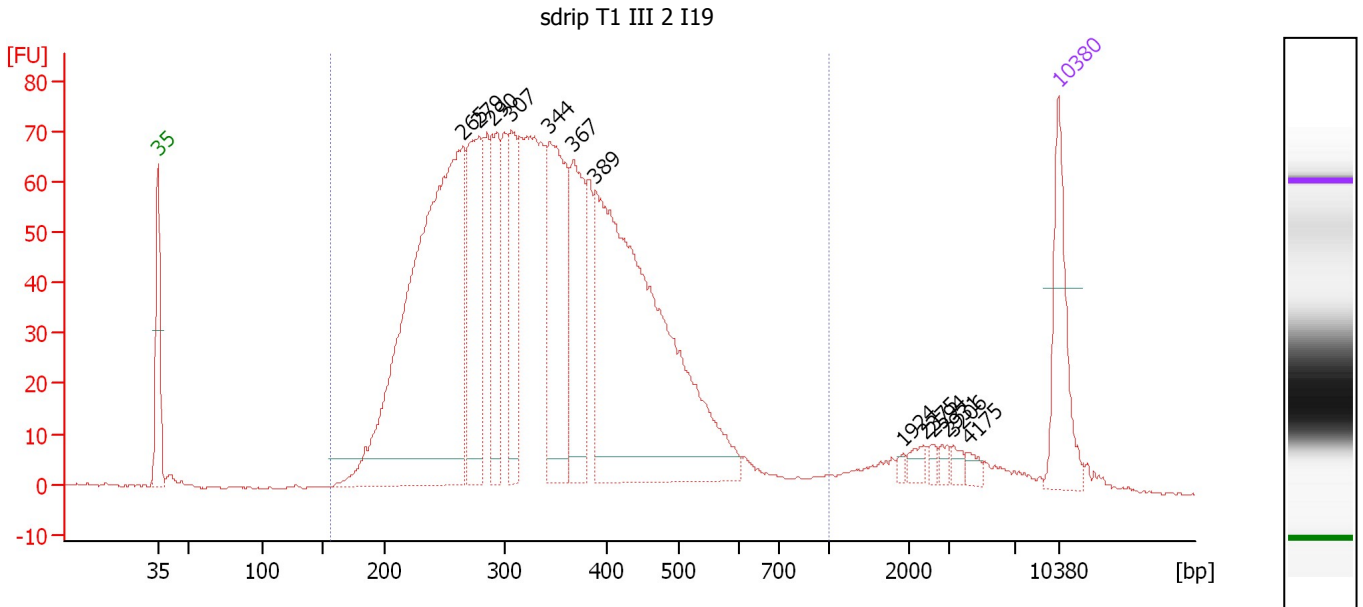
Region table for sample 5 : sdrip III 2 I18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
162	1,000	355	2,085.40	1,855.4	10,189.8	 91	34.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
 Modified: 11/7/2018 4:31:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sdrip T1 III 2 I19

Number of peaks found: 13 Corr. Area 1: 1,958.4
 Noise: 0.2

Peak table for sample 6 : sdrip T1 III 2 I19

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	265	773.66	4,425.7		66.65
3	279	200.11	1,085.7		67.98
4	290	106.95	558.4		69.00
5	307	118.88	586.0		70.49
6	344	226.51	997.4		73.42
7	367	147.34	607.5		75.28
8	389	618.73	2,411.0		76.99
9	1,924	3.66	2.9		100.91
10	2,375	9.54	6.1		102.56
11	2,594	5.46	3.2		103.25
12	2,931	6.18	3.2		104.32
13	3,206	7.91	3.7		104.80
14	4,175	7.32	2.7		106.02
15	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : sdrip T1 III 2 I19

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
155	1,000	346	2,897.89	1,958.4	14,145.4	94	30.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-07\2018-11-07_002.xad

Created: 11/7/2018 4:01:27 PM
Modified: 11/7/2018 4:31:18 PM

Gel Image