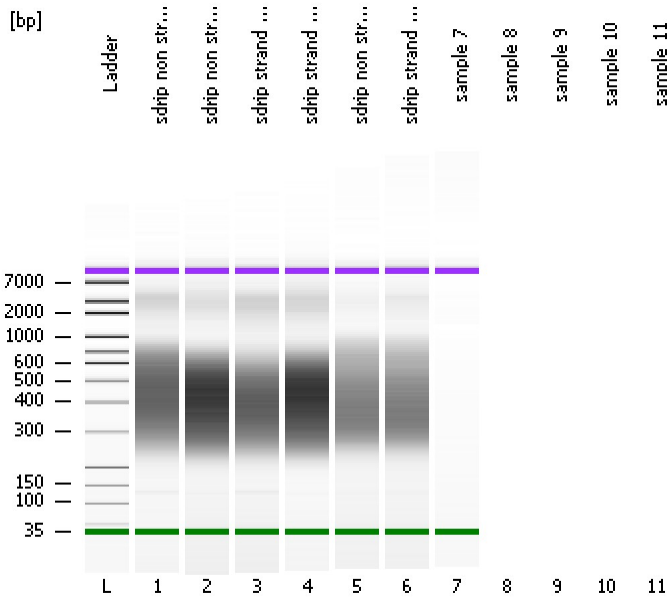


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
Modified: 3/8/2019 11:53:14 AM

Electrophoresis File Run Summary



Instrument Information:

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

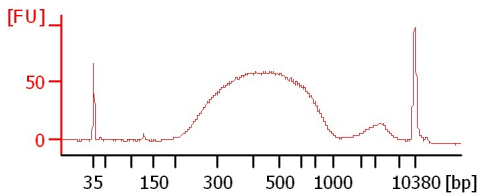
Assay Information:

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

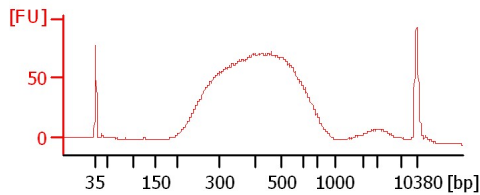
Chip Information:

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

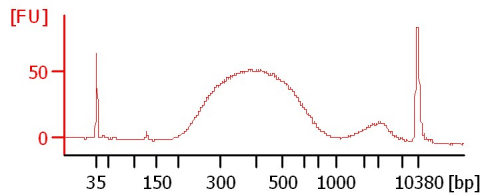
sdrip non strand spe i18



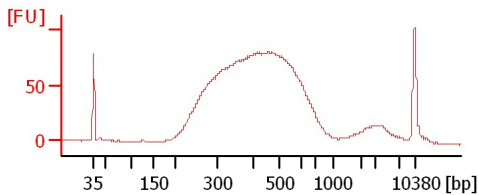
sdrip non strand spe i19



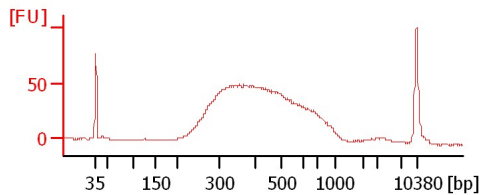
sdrip strand spe i18



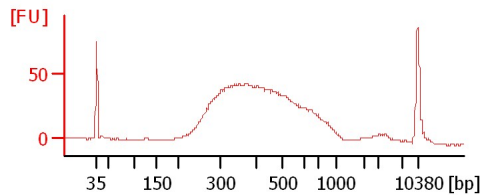
sdrip strand spe i19



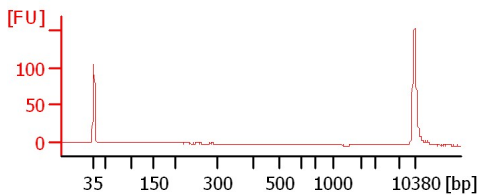
sdrip non strand spe Em i18



sdrip strand spe Em i18



sample 7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sdrip non strand spe i18		<input type="checkbox"/>	✓			
sdrip non strand spe i19		<input type="checkbox"/>	✓			
sdrip strand spe i18		<input type="checkbox"/>	✓			
sdrip strand spe i19		<input type="checkbox"/>	✓			
sdrip non strand spe Em i18		<input type="checkbox"/>	✓			
sdrip strand spe Em i18		<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\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
Modified: 3/8/2019 11:53:14 AM

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

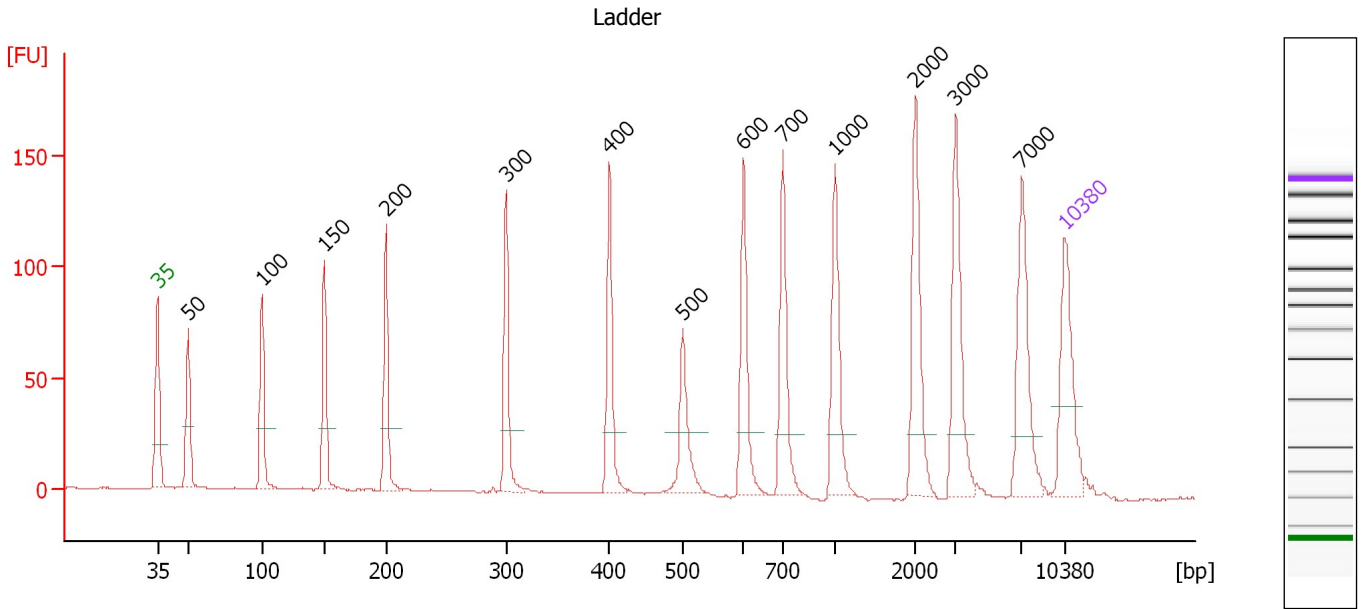
Ladder

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\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

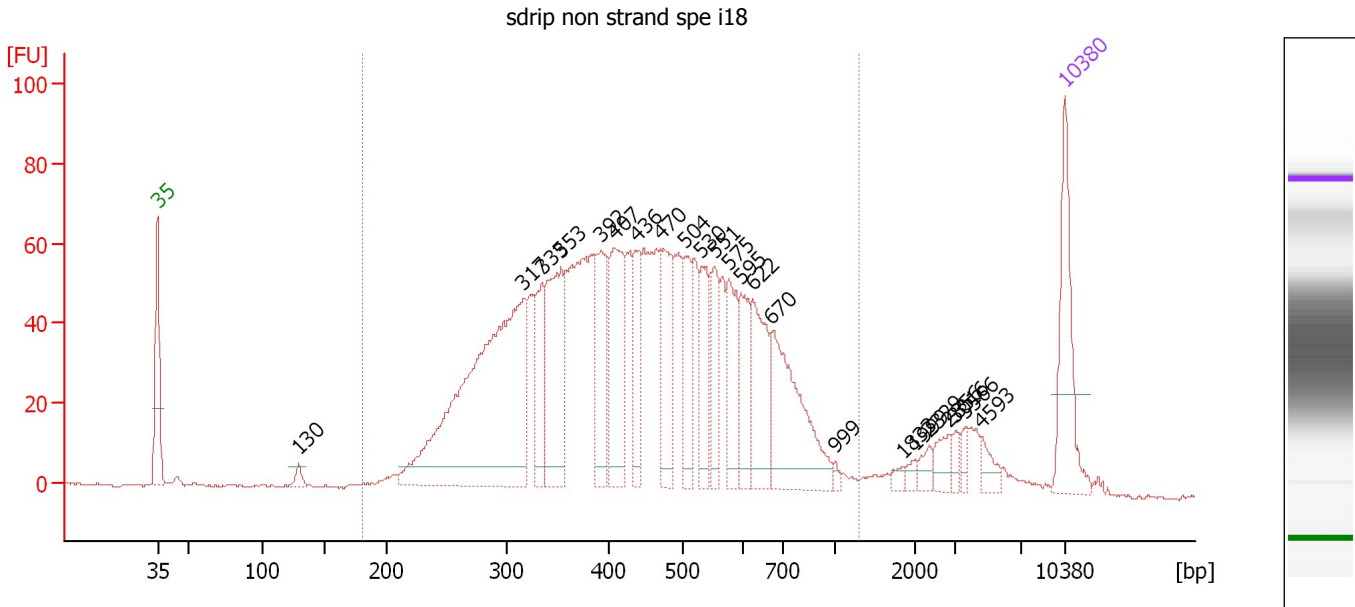
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.89
5	200	150.00	1,136.4	Ladder Peak	60.65
6	300	150.00	757.6	Ladder Peak	69.89
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	88.23
10	700	150.00	324.7	Ladder Peak	91.24
11	1,000	150.00	227.3	Ladder Peak	95.30
12	2,000	150.00	113.6	Ladder Peak	101.50
13	3,000	150.00	75.8	Ladder Peak	104.59
14	7,000	150.00	32.5	Ladder Peak	109.67
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sdrip non strand spe i18

Number of peaks found: 23 Corr. Area 1: 1,859.0
 Noise: 0.4

Peak table for sample 1 : sdrip non strand spe 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	10.20	119.3		53.91
3	317	477.24	2,281.7		71.24
4	335	64.56	292.0		72.69
5	353	141.15	605.7		74.13
6	392	98.57	380.9		77.25
7	407	119.44	444.7		78.28
8	436	56.36	195.7		79.96
9	470	88.35	284.8		81.87
10	504	60.13	180.9		83.73
11	530	62.06	177.2		84.99
12	551	55.78	153.3		85.97
13	575	65.45	172.3		87.09
14	595	54.90	139.7		88.02
15	622	80.42	195.8		88.91
16	670	142.27	321.5		90.35
17	999	4.01	6.1		95.29
18	1,833	5.93	4.9		100.46
19	1,999	5.81	4.4		101.49
20	2,329	10.12	6.6		102.51
21	2,856	15.58	8.3		104.15
22	3,016	8.55	4.3		104.61
23	3,566	8.41	3.6		105.31
24	4,593	13.39	4.4		106.62
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...

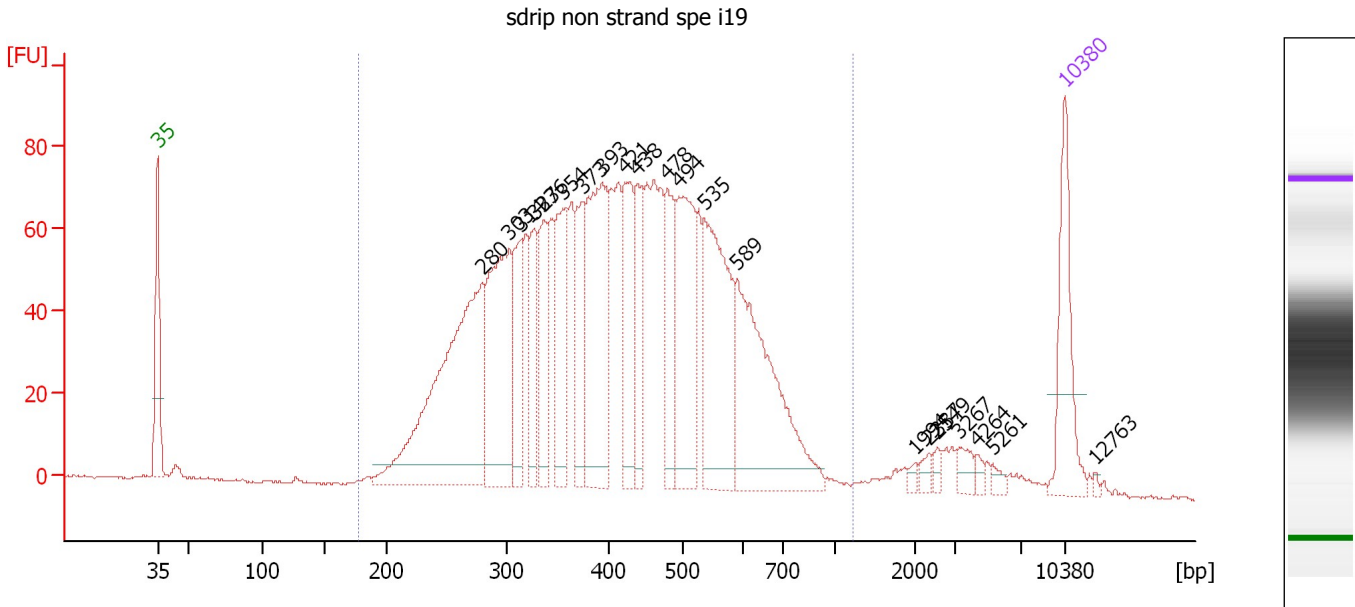
... Region table for sample 1 : sdrip non strand spe i18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
180	1,296	457	2,317.24	1,859.0	8,902.9	 93	33.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sdrip non strand spe i19

Number of peaks found: 21 Corr. Area 1: 2,198.3
 Noise: 0.3

Peak table for sample 2 : sdrip non strand spe 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	280	405.53	2,193.5		68.05
3	303	217.21	1,084.6		70.16
4	314	78.13	377.0		71.01
5	327	69.39	321.6		72.04
6	336	86.01	387.5		72.79
7	354	107.72	460.4		74.25
8	373	84.98	344.9		75.75
9	393	207.55	800.9		77.30
10	421	100.55	361.9		79.08
11	438	77.83	269.5		80.02
12	478	83.38	264.3		82.32
13	494	161.37	495.3		83.21
14	535	192.63	546.0		85.18
15	589	224.41	577.5		87.71
16	1,994	4.63	3.5		101.46
17	2,337	7.31	4.7		102.54
18	2,549	6.32	3.8		103.19
19	3,267	12.57	5.8		104.93
20	4,264	5.61	2.0		106.20
21	5,261	5.41	1.6		107.46
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,763	0.00	0.0		115.35

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...

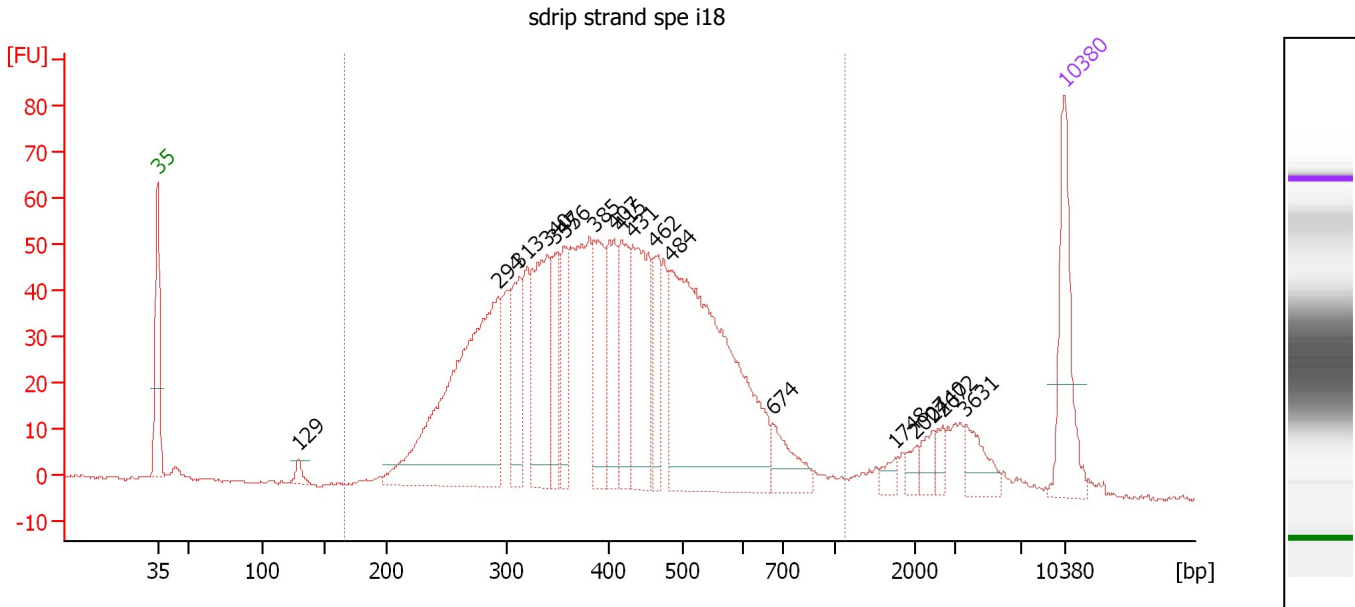
... Region table for sample 2 : sdrip non strand spe i19

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
177	1,230	425	2,675.77	2,198.3	10,843.3	 95	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sdrip strand spe i18

Number of peaks found: 18 Corr. Area 1: 1,489.3
 Noise: 0.4

Peak table for sample 3 : sdrip strand spe 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	129	11.32	132.9		53.86
3	294	408.47	2,106.7		69.32
4	313	84.43	409.3		70.89
5	340	141.74	631.4		73.10
6	347	60.72	264.9		73.67
7	356	60.81	258.6		74.39
8	385	90.13	354.7		76.68
9	407	82.41	307.0		78.26
10	415	81.61	297.9		78.74
11	431	140.00	492.1		79.65
12	462	58.87	193.0		81.42
13	484	428.54	1,341.2		82.67
14	674	40.56	91.1		90.46
15	1,748	9.54	8.3		99.94
16	2,007	9.11	6.9		101.52
17	2,440	14.16	8.8		102.86
18	2,672	11.06	6.3		103.57
19	3,631	27.18	11.3		105.39
20	10,380	75.00	10.9	Upper Marker	113.00

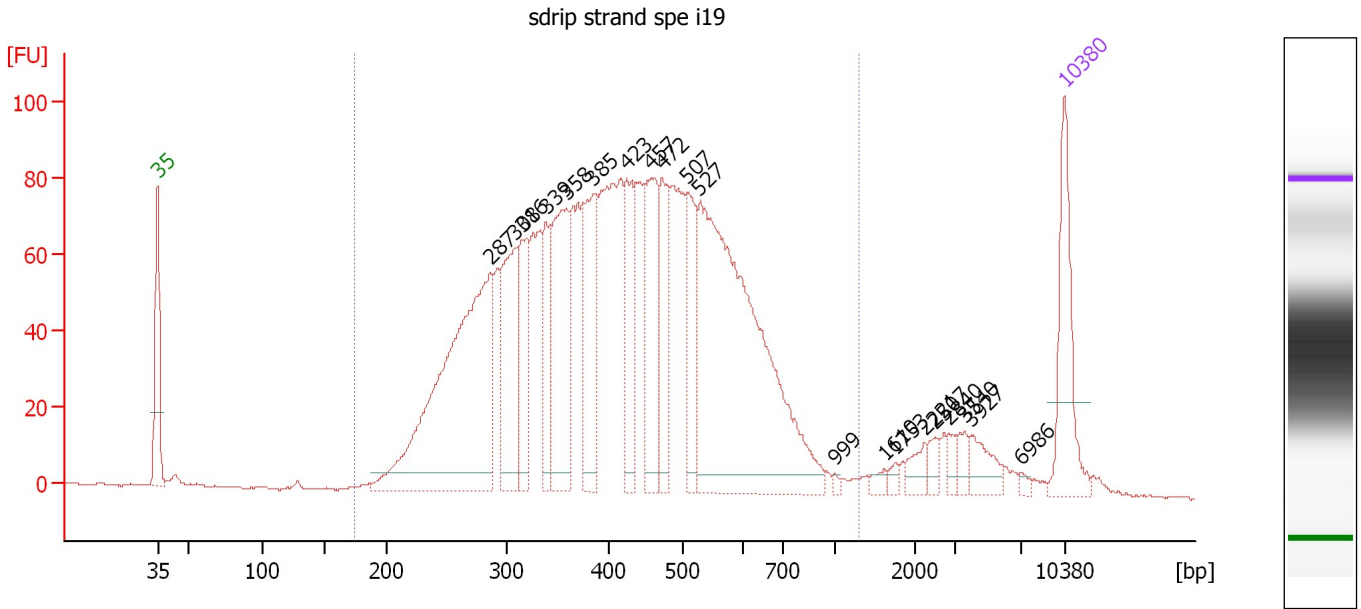
Region table for sample 3 : sdrip strand spe i18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
166	1,118	415	2,020.12	1,489.3	8,289.2	92	29.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sdrip strand spe i19

Number of peaks found: 20 Corr. Area 1: 2,405.6
 Noise: 0.3

Peak table for sample 4 : sdrip strand spe 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	287	458.42	2,421.2		68.68
3	308	139.69	686.7		70.55
4	316	97.32	466.3		71.19
5	339	70.72	316.1		73.01
6	358	168.39	712.6		74.53
7	385	130.10	512.6		76.65
8	423	92.33	330.5		79.21
9	457	122.38	405.8		81.12
10	472	78.44	252.0		81.96
11	507	81.96	245.1		83.88
12	527	502.36	1,445.2		84.81
13	999	2.86	4.3		95.29
14	1,610	6.20	5.8		99.08
15	1,753	5.08	4.4		99.96
16	2,221	14.20	9.7		102.18
17	2,507	9.97	6.0		103.06
18	2,840	7.72	4.1		104.10
19	3,540	11.37	4.9		105.28
20	3,927	23.35	9.0		105.77
21	6,986	3.70	0.8		109.65
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...

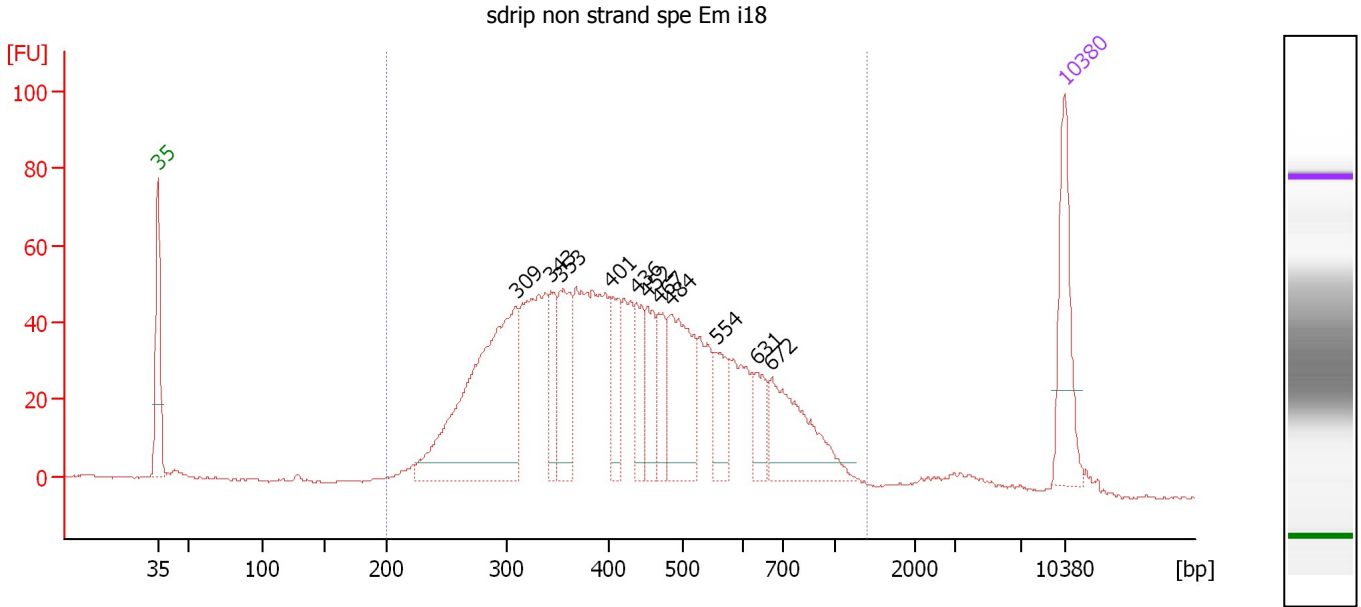
... Region table for sample 4 : sdrip strand spe i19

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
175	1,288	431	2,637.58	2,405.6	10,601.8	 94	31.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sdrip non strand spe Em i18

Number of peaks found: 11 Corr. Area 1: 1,483.8
 Noise: 0.3

Peak table for sample 5 : sdrip non strand spe Em 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	309	376.03	1,841.1		70.65
3	343	59.55	262.7		73.37
4	353	92.06	395.2		74.12
5	401	65.54	247.5		77.95
6	436	50.87	176.9		79.91
7	452	58.63	196.7		80.82
8	467	47.23	153.3		81.68
9	484	131.61	411.6		82.68
10	554	53.71	146.8		86.11
11	631	40.74	97.8		89.18
12	672	118.39	267.0		90.39
13	10,380	75.00	10.9	Upper Marker	113.00

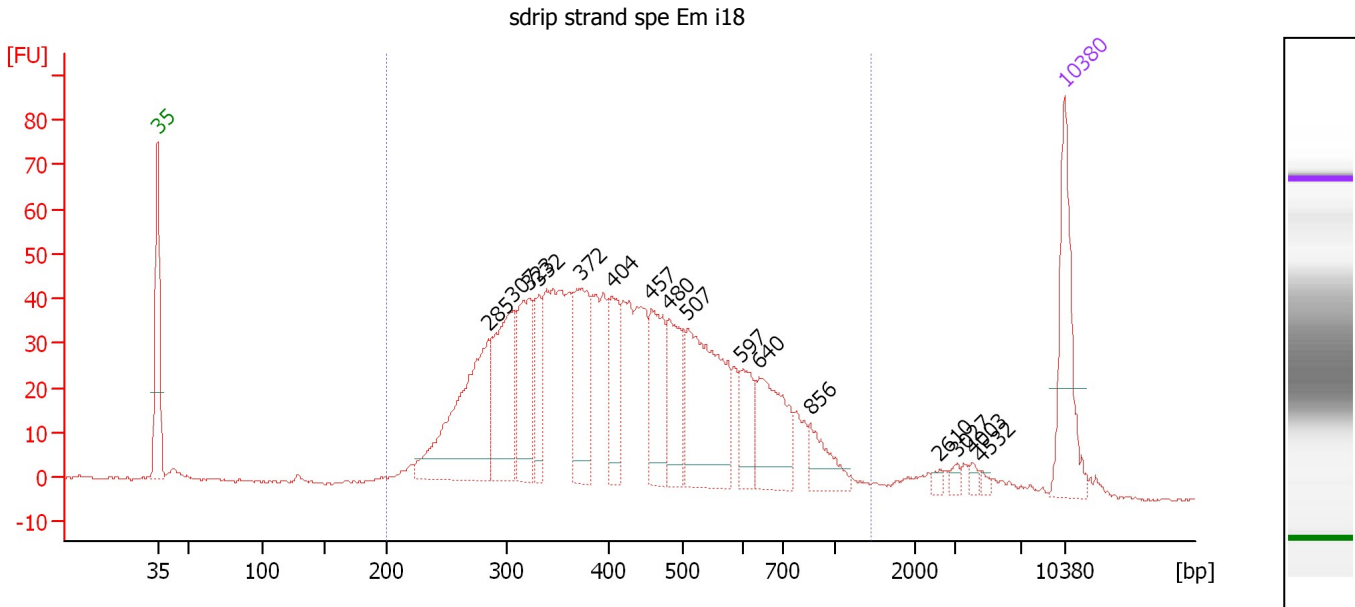
Region table for sample 5 : sdrip non strand spe Em i18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,401	448	1,788.10	1,483.8	7,021.1	97	35.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sdrip strand spe Em i18

Number of peaks found: 16 Corr. Area 1: 1,252.0
 Noise: 0.3

Peak table for sample 6 : sdrip strand spe Em 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	285	205.18	1,091.5		68.49
3	307	128.12	632.3		70.45
4	323	96.17	451.8		71.69
5	332	52.82	241.3		72.42
6	372	103.74	422.1		75.67
7	404	59.01	221.4		78.10
8	457	79.77	264.7		81.10
9	480	71.11	224.3		82.45
10	507	170.28	508.9		83.89
11	597	40.01	101.6		88.08
12	640	82.42	195.2		89.43
13	856	33.91	60.0		93.35
14	2,610	4.26	2.5		103.38
15	3,027	4.38	2.2		104.62
16	4,003	4.46	1.7		105.87
17	4,532	3.33	1.1		106.54
18	10,380	75.00	10.9	Upper Marker	113.00

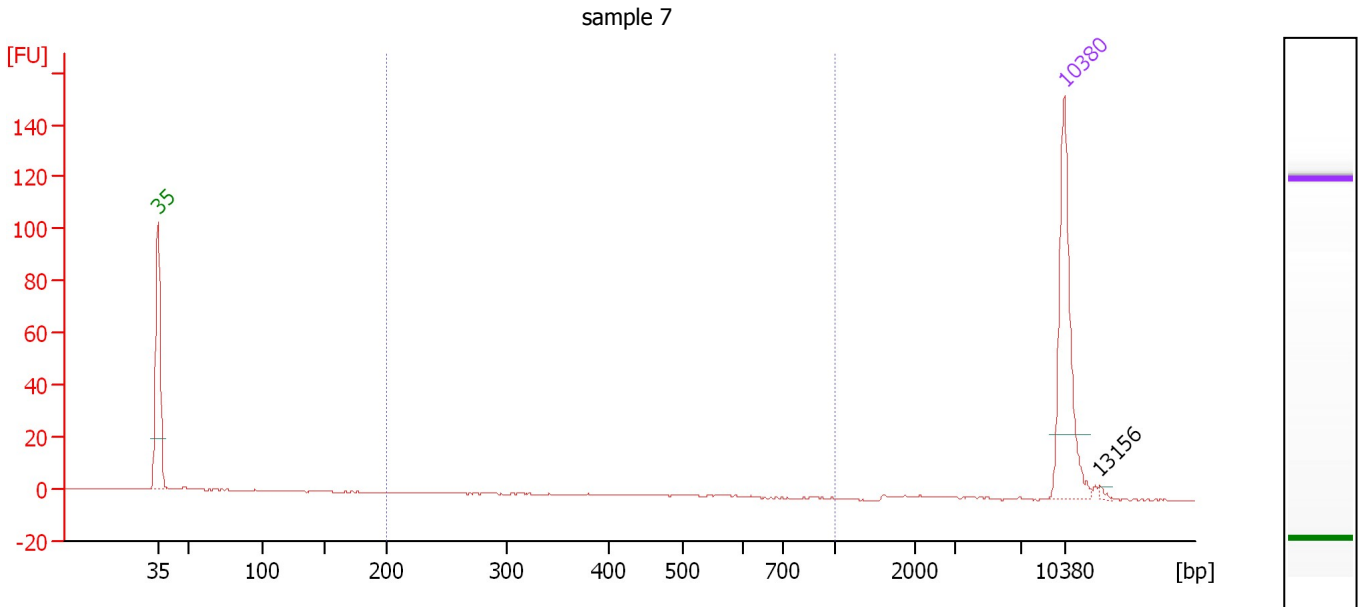
Region table for sample 6 : sdrip strand spe Em i18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,433	442	1,622.63	1,252.0	6,417.0	97	35.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
 Modified: 3/8/2019 11:53:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 1 Corr. Area 1: 0.0
 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	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00
3	13,156	0.00	0.0		115.73

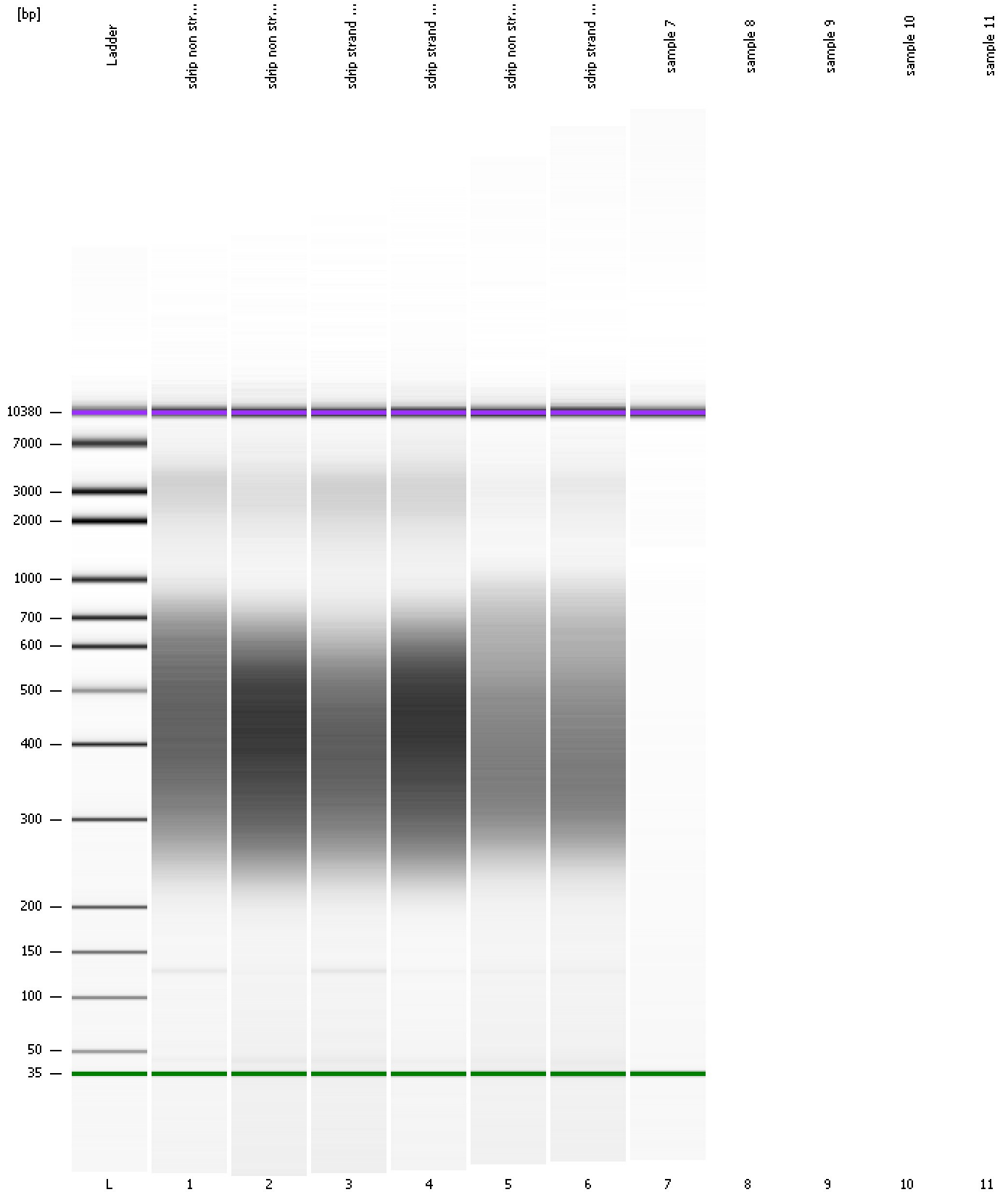
Region table for sample 7 : sample 7

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	0	0.00	0.0	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
Modified: 3/8/2019 11:53:14 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-08\2019-03-08_001.xad

Created: 3/8/2019 11:23:23 AM
Modified: 3/8/2019 11:53:14 AM

Invalid Samples

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.