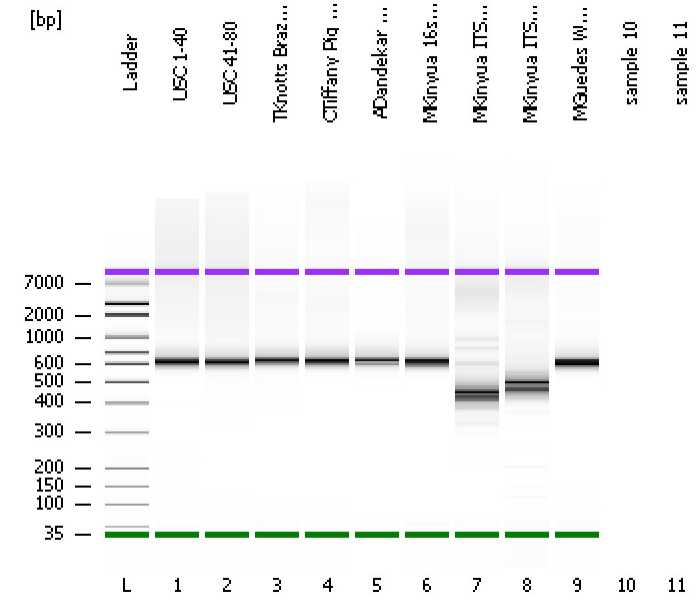
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 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

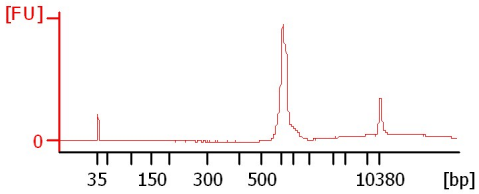
Chip Information:

Chip Lot #:

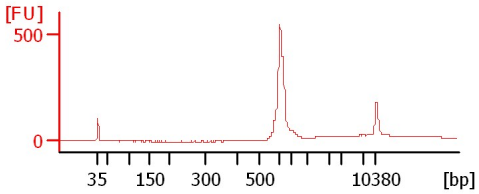
Reagent Kit Lot #:

Chip Comments:

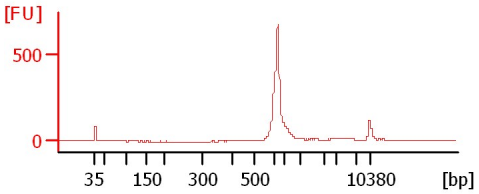
USC 1-40



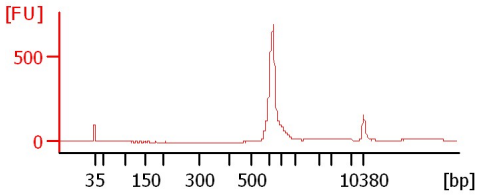
USC 41-80



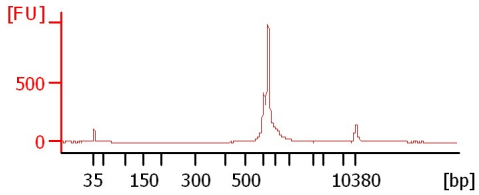
TKnotts Brazil 1-12



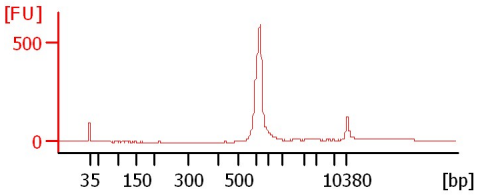
CTiffany Pig 34



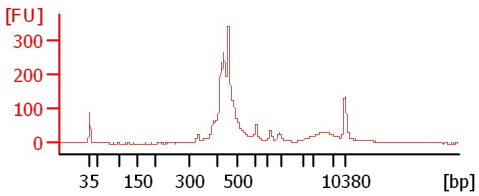
ADandekar Test 1-9



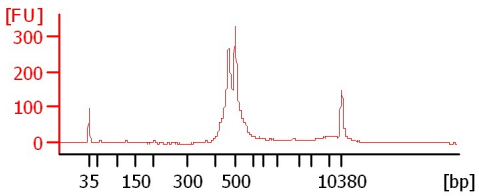
MKinyua 16s 1-11



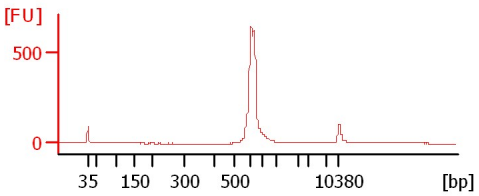
MKinyua ITS 1/2 1-11



MKinyua ITS 86/4 1-11



MGuedes Weber 31



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
USC 1-40		☐	✔			
USC 41-80		☐	✔			
TKnotts Brazil 1-12		☐	✔			
CTiffany Pig 34		☐	✔			
ADandekar Test 1-9		☐	✔			
MKinyua 16s 1-11		☐	✔			
MKinyua ITS 1/2 1-11		☐	✔			
MKinyua ITS 86/4 1-11		☐	✔			
MGuedes Weber 31		☐	✔			
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 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

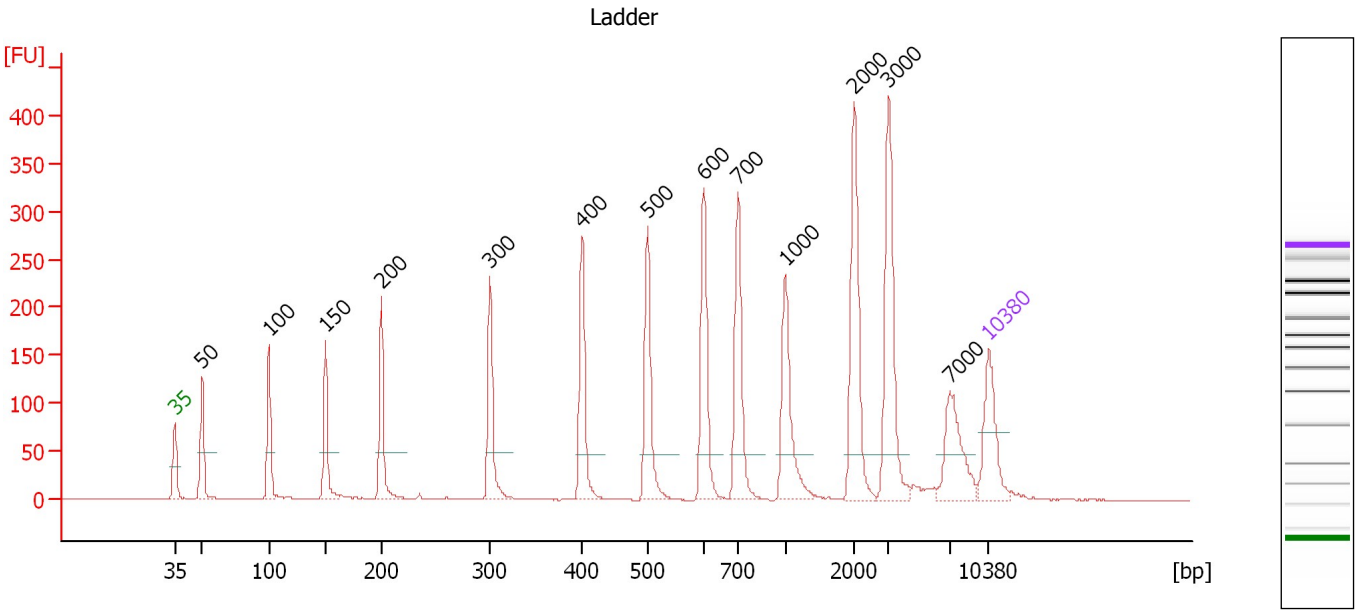
Ladder

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\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.5

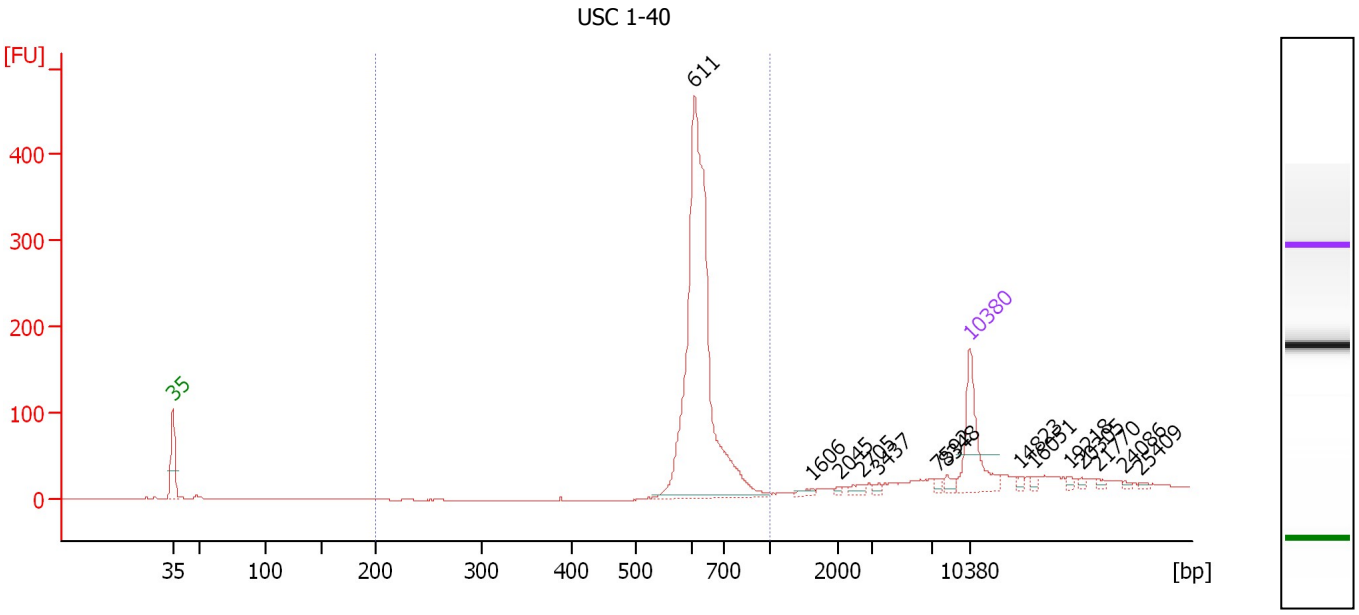
Peak table for Ladder

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	51.07
4		150	150.00	1,515.2	Ladder Peak	55.98
5		200	150.00	1,136.4	Ladder Peak	60.75
6		300	150.00	757.6	Ladder Peak	70.11
7		400	150.00	568.2	Ladder Peak	78.05
8		500	150.00	454.5	Ladder Peak	83.64
9		600	150.00	378.8	Ladder Peak	88.50
10		700	150.00	324.7	Ladder Peak	91.44
11		1,000	150.00	227.3	Ladder Peak	95.48
12		2,000	150.00	113.6	Ladder Peak	101.44
13		3,000	150.00	75.8	Ladder Peak	104.42
14		7,000	150.00	32.5	Ladder Peak	109.65
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : USC 1-40

Number of peaks found:	14	Corr. Area 1:	1,098.7
Noise:	0.3		

Peak table for sample 1 : USC 1-40

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	611	608.89	1,508.9		88.84
3	1,606	5.55	5.2		99.09
4	2,045	2.38	1.8		101.58
5	2,705	6.92	3.9		103.54
6	3,437	3.98	1.8		104.99
7	7,592	4.61	0.9		110.24
8	8,348	7.15	1.3		110.99
9	10,380	75.00	10.9	Upper Marker	113.00
10	14,823	0.00	0.0		117.40
11	16,051	0.00	0.0		118.62
12	19,218	0.00	0.0		121.76
13	20,305	0.00	0.0		122.83
14	21,770	0.00	0.0		124.28
15	24,086	0.00	0.0		126.58
16	25,409	0.00	0.0		127.89

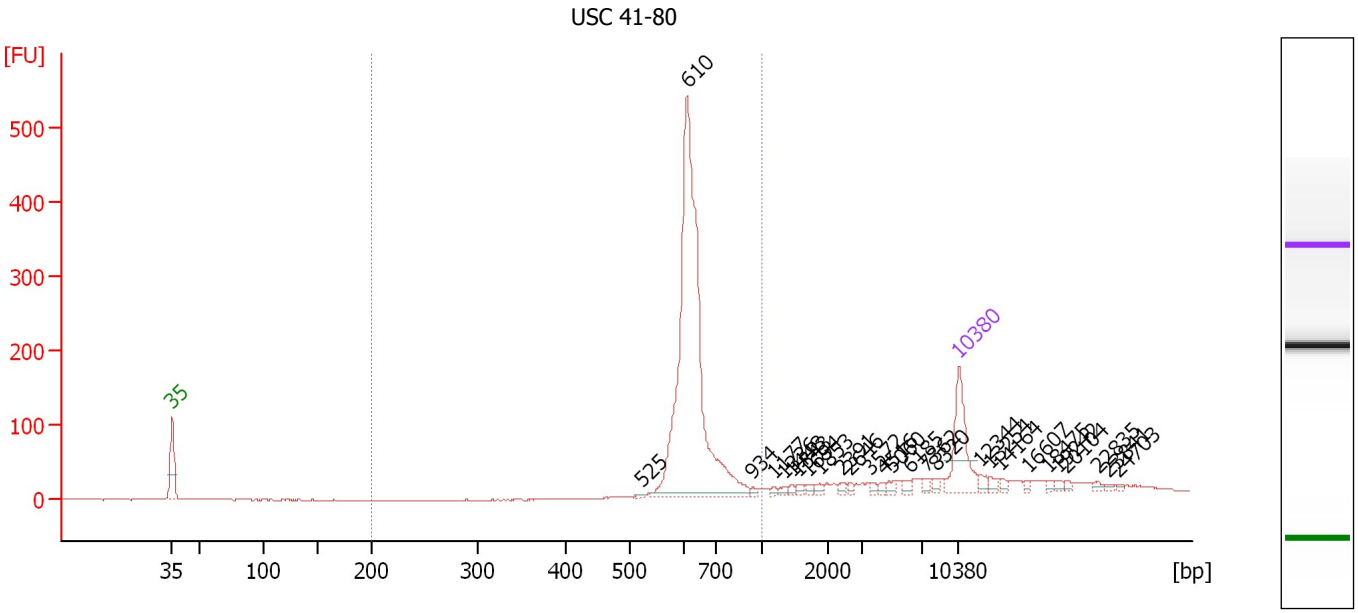
Region table for sample 1 : USC 1-40

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	630	567.92	1,098.7	1,370.7	83	7.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : USC 41-80

Number of peaks found:	27	Corr. Area 1:	1,241.9
Noise:	0.6		

Peak table for sample 2 : USC 41-80

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	525	2.68	7.7		84.86
3	610	662.19	1,644.9		88.80
4	934	4.21	6.8		94.59
5	1,177	3.54	4.6		96.53
6	1,336	4.37	5.0		97.48
7	1,448	4.19	4.4		98.15
8	1,543	5.23	5.1		98.72
9	1,694	4.43	4.0		99.62
10	1,853	6.53	5.3		100.57
11	2,391	4.84	3.1		102.61
12	2,646	4.21	2.4		103.37
13	3,572	3.79	1.6		105.17
14	4,516	4.76	1.6		106.40
15	5,060	6.64	2.0		107.12
16	6,185	5.68	1.4		108.59
17	7,362	4.97	1.0		110.01
18	8,320	6.04	1.1		110.96
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,344	0.00	0.0		114.95
21	13,254	0.00	0.0		115.85
22	14,164	0.00	0.0		116.75
23	16,607	0.00	0.0		119.17
24	18,475	0.00	0.0		121.02
25	19,242	0.00	0.0		121.78

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : USC 41-80

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	20,104	0.00	0.0		122.63
27	22,835	0.00	0.0		125.34
28	23,841	0.00	0.0		126.34
29	24,703	0.00	0.0		127.19

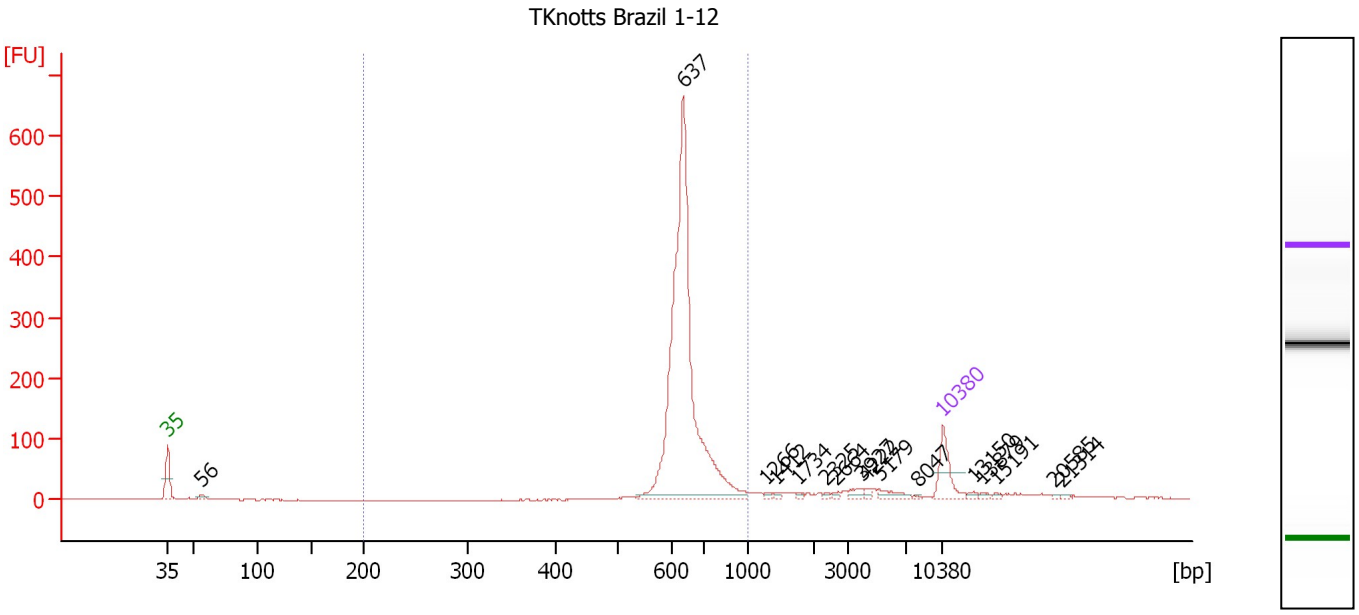
Region table for sample 2 : USC 41-80

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]
200	1,000	633	652.99	1,241.9	1,574.3	75	9.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TKnotts Brazil 1-12

Number of peaks found:	16	Corr. Area 1:	1,476.1
Noise:	0.8		

Peak table for sample 3 : TKnotts Brazil 1-12

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	56	14.79	396.9		46.08
3	637	1,258.74	2,992.1		89.60
4	1,266	5.49	6.6		97.06
5	1,412	6.35	6.8		97.93
6	1,734	4.83	4.2		99.86
7	2,325	3.75	2.4		102.41
8	2,664	5.74	3.3		103.42
9	3,927	15.88	6.1		105.63
10	4,222	6.70	2.4		106.02
11	5,179	21.41	6.3		107.27
12	8,047	2.17	0.4		110.69
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,150	0.00	0.0		115.74
15	13,879	0.00	0.0		116.47
16	15,191	0.00	0.0		117.77
17	20,585	0.00	0.0		123.11
18	21,314	0.00	0.0		123.83

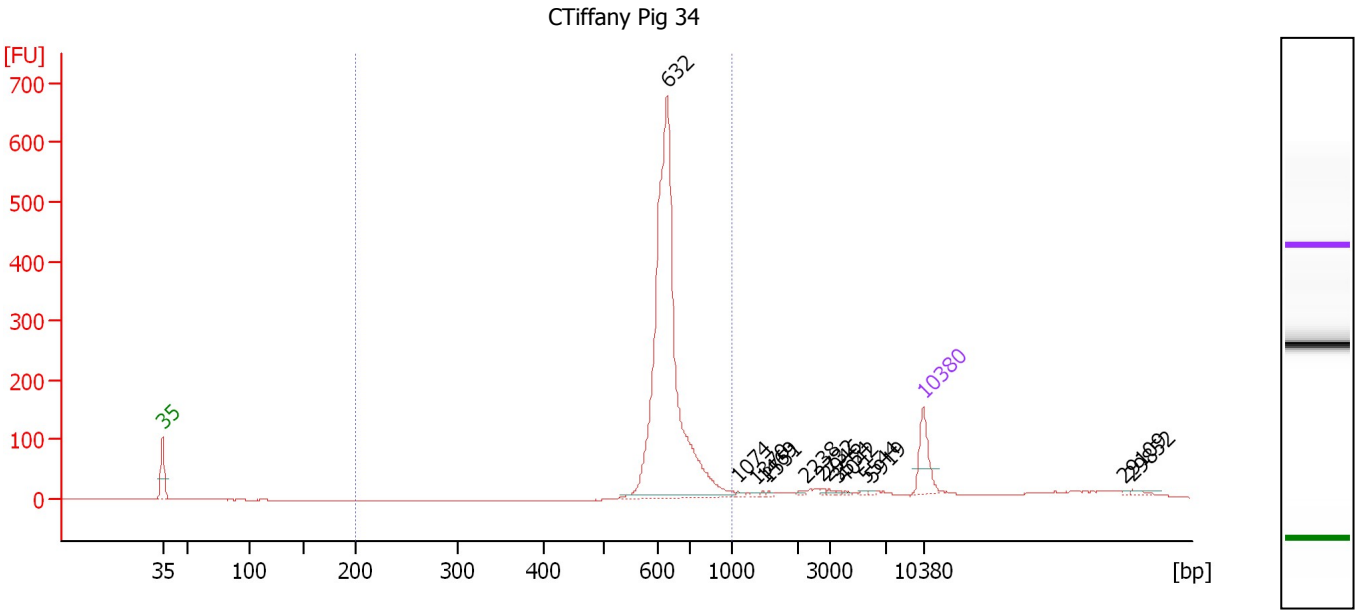
Region table for sample 3 : TKnotts Brazil 1-12

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color Total	% of Total	Size distribution in CV [%]
200	1,000	648	1,270.56	1,476.1	2,994.2		83	10.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CTiffany Pig 34

Number of peaks found:	14	Corr. Area 1:	1,647.2
Noise:	0.6		

Peak table for sample 4 : CTiffany Pig 34

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	632	1,261.89	3,026.3		89.44
3	1,074	4.76	6.7		95.92
4	1,370	3.38	3.7		97.68
5	1,469	3.03	3.1		98.27
6	1,551	2.87	2.8		98.76
7	2,238	4.39	3.0		102.15
8	2,732	4.24	2.4		103.62
9	2,946	4.00	2.1		104.26
10	3,554	2.45	1.0		105.15
11	4,042	2.84	1.1		105.78
12	5,544	2.96	0.8		107.75
13	5,919	2.76	0.7		108.24
14	10,380	75.00	10.9	Upper Marker	113.00
15	29,109	0.00	0.0		131.56
16	29,852	0.00	0.0		132.29

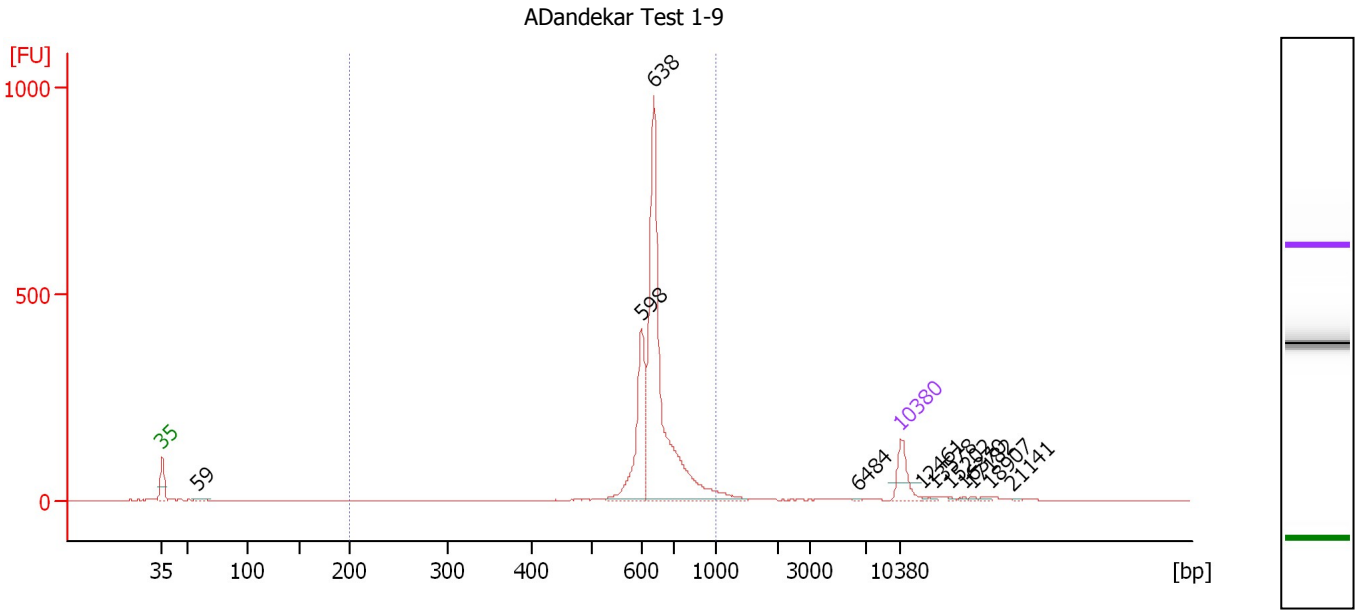
Region table for sample 4 : CTiffany Pig 34

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	644	1,266.68	1,647.2	3,003.5	86	10.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ADandekar Test 1-9

Number of peaks found:	11	Corr. Area 1:	1,933.0
Noise:	0.7		

Peak table for sample 5 : ADandekar Test 1-9

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	13.46	343.3		46.42
3	598	318.04	805.8		88.41
4	638	992.63	2,357.8		89.62
5	6,484	2.15	0.5		108.98
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,461	0.00	0.0		115.06
8	13,578	0.00	0.0		116.17
9	15,202	0.00	0.0		117.78
10	16,370	0.00	0.0		118.93
11	17,182	0.00	0.0		119.74
12	18,907	0.00	0.0		121.45
13	21,141	0.00	0.0		123.66

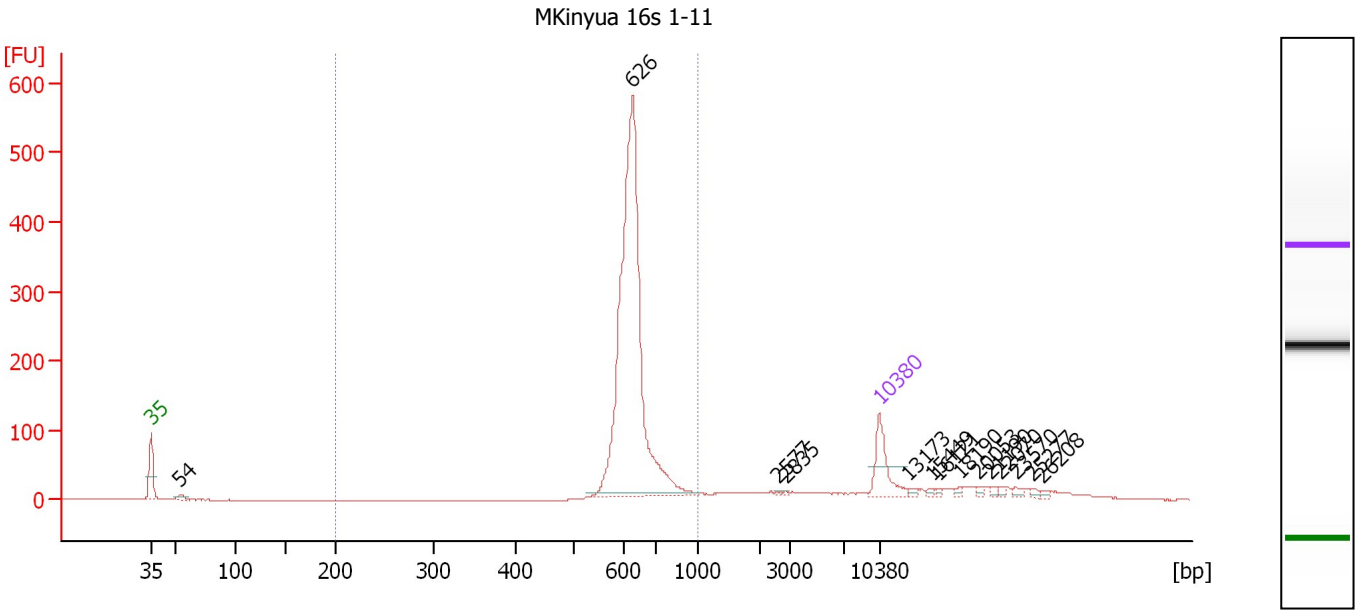
Region table for sample 5 : ADandekar Test 1-9

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	653	1,279.38	1,933.0	3,005.1	91	11.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MKinyua 16s 1-11

Number of peaks found:	14	Corr. Area 1:	1,504.3
Noise:	0.5		

Peak table for sample 6 : MKinyua 16s 1-11

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	16.35	457.2		45.82
3	626	1,057.97	2,559.9		89.27
4	2,577	1.73	1.0		103.16
5	2,835	1.85	1.0		103.93
6	10,380	75.00	10.9	Upper Marker	113.00
7	13,173	0.00	0.0		115.77
8	15,449	0.00	0.0		118.02
9	16,121	0.00	0.0		118.69
10	18,190	0.00	0.0		120.74
11	20,053	0.00	0.0		122.58
12	21,190	0.00	0.0		123.71
13	22,070	0.00	0.0		124.58
14	23,570	0.00	0.0		126.07
15	25,277	0.00	0.0		127.76
16	26,208	0.00	0.0		128.68

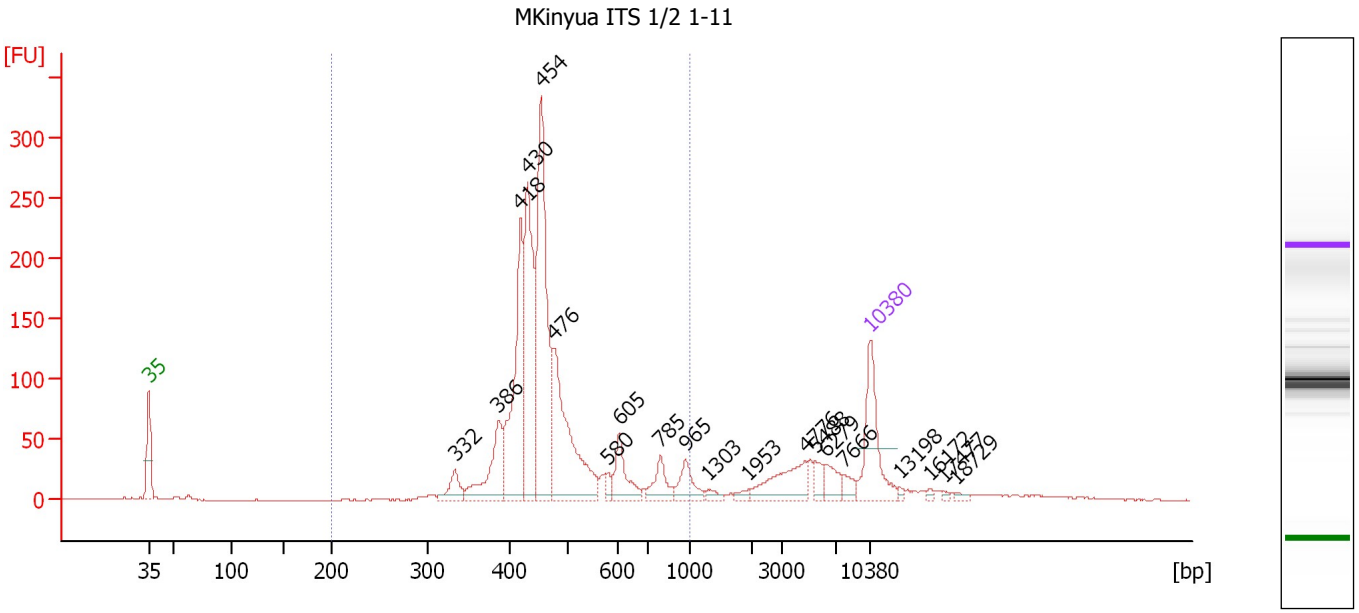
Region table for sample 6 : MKinyua 16s 1-11

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	633	1,106.71	1,504.3	2,669.9	79	9.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MKinyua ITS 1/2 1-11

Number of peaks found:	20	Corr. Area 1:	1,774.7
Noise:	0.6		

Peak table for sample 7 : MKinyua ITS 1/2 1-11

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	332	30.65	139.7		72.68
3	386	85.89	337.4		76.91
4	418	206.39	748.7		79.03
5	430	214.57	756.6		79.71
6	454	293.00	978.5		81.05
7	476	199.76	636.0		82.29
8	580	10.26	26.8		87.51
9	605	46.03	115.3		88.65
10	785	32.25	62.3		92.58
11	965	29.23	45.9		95.01
12	1,303	7.04	8.2		97.28
13	1,953	5.32	4.1		101.16
14	4,776	54.21	17.2		106.74
15	5,488	15.18	4.2		107.68
16	6,279	20.65	5.0		108.71
17	7,666	12.12	2.4		110.31
18	10,380	75.00	10.9	Upper Marker	113.00
19	13,198	0.00	0.0		115.79
20	16,172	0.00	0.0		118.74
21	17,477	0.00	0.0		120.03
22	18,729	0.00	0.0		121.27

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...

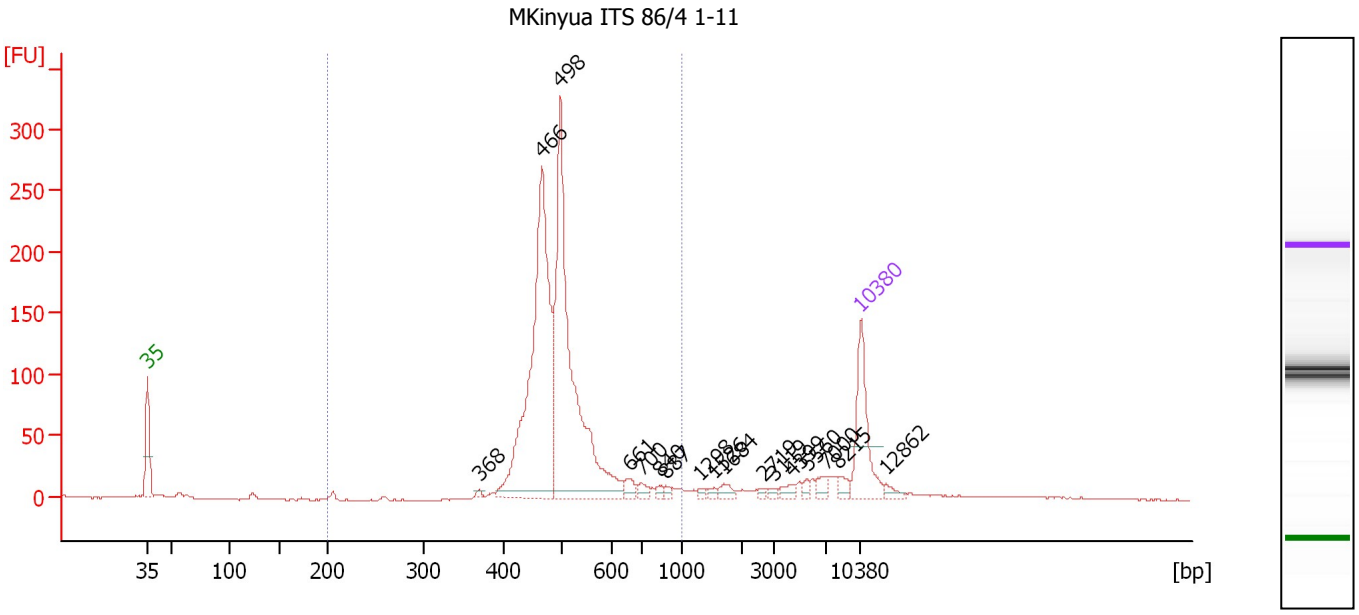
... Region table for sample 7 : MKinyua ITS 1/2 1-11

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	476	1,142.98	1,774.7	3,816.1	83	23.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MKinyua ITS 86/4 1-11

Number of peaks found:	17	Corr. Area 1:	1,474.8
Noise:	0.6		

Peak table for sample 8 : MKinyua ITS 86/4 1-11

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	368	3.89	16.0		75.54
3	466	463.44	1,508.3		81.71
4	498	454.42	1,381.8		83.55
5	661	11.87	27.2		90.29
6	700	9.42	20.4		91.45
7	840	5.58	10.1		93.33
8	887	4.00	6.8		93.96
9	1,298	3.72	4.3		97.25
10	1,526	4.00	4.0		98.61
11	1,684	8.69	7.8		99.55
12	2,719	2.51	1.4		103.58
13	3,119	3.77	1.8		104.58
14	4,399	7.76	2.7		106.25
15	5,560	5.44	1.5		107.77
16	7,000	10.23	2.2		109.65
17	8,215	9.66	1.8		110.86
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,862	0.00	0.0		115.46

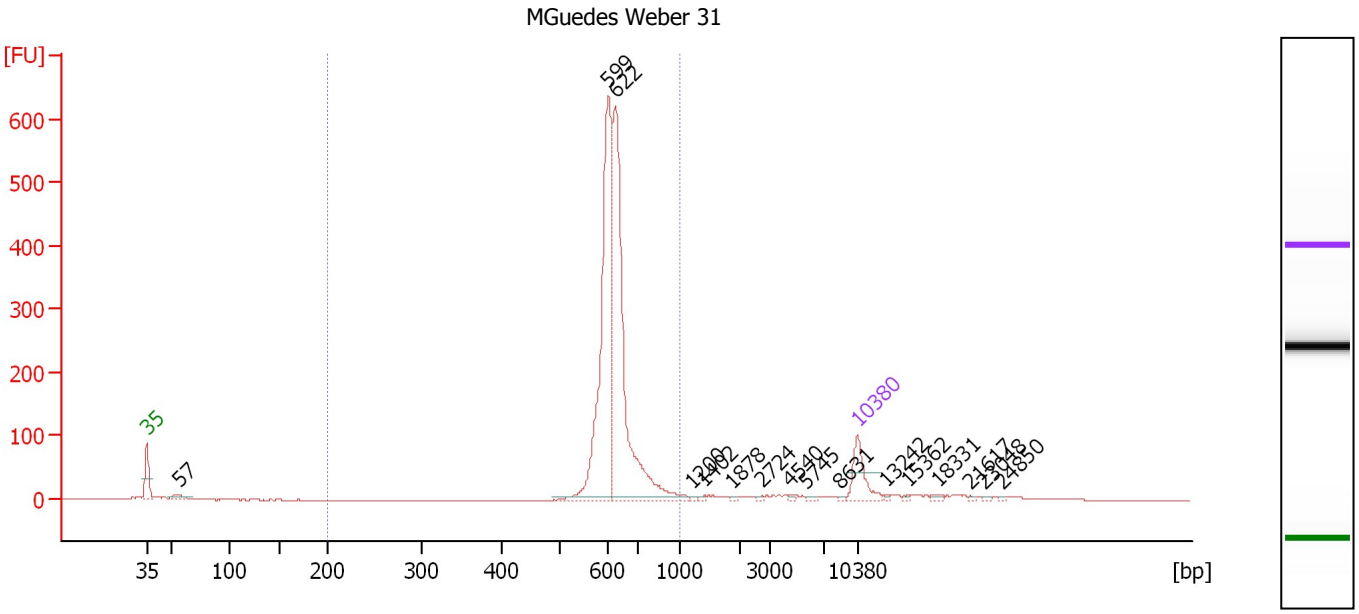
Region table for sample 8 : MKinyua ITS 86/4 1-11

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	503	966.80	1,474.8	2,989.6	84	16.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MGuedes Weber 31

Number of peaks found:	16	Corr. Area 1:	1,799.0
Noise:	0.4		

Peak table for sample 9 : MGuedes Weber 31

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	57	28.01	743.7		46.15
3	599	726.08	1,835.3		88.48
4	622	745.01	1,813.9		89.16
5	1,200	4.39	5.5		96.67
6	1,402	4.27	4.6		97.88
7	1,878	2.70	2.2		100.71
8	2,724	3.81	2.1		103.60
9	4,540	3.75	1.3		106.44
10	5,745	5.13	1.4		108.01
11	8,631	2.53	0.4		111.27
12	10,380	75.00	10.9	Upper Marker	113.00
13	13,242	0.00	0.0		115.84
14	15,362	0.00	0.0		117.94
15	18,331	0.00	0.0		120.88
16	21,617	0.00	0.0		124.13
17	23,048	0.00	0.0		125.55
18	24,850	0.00	0.0		127.34

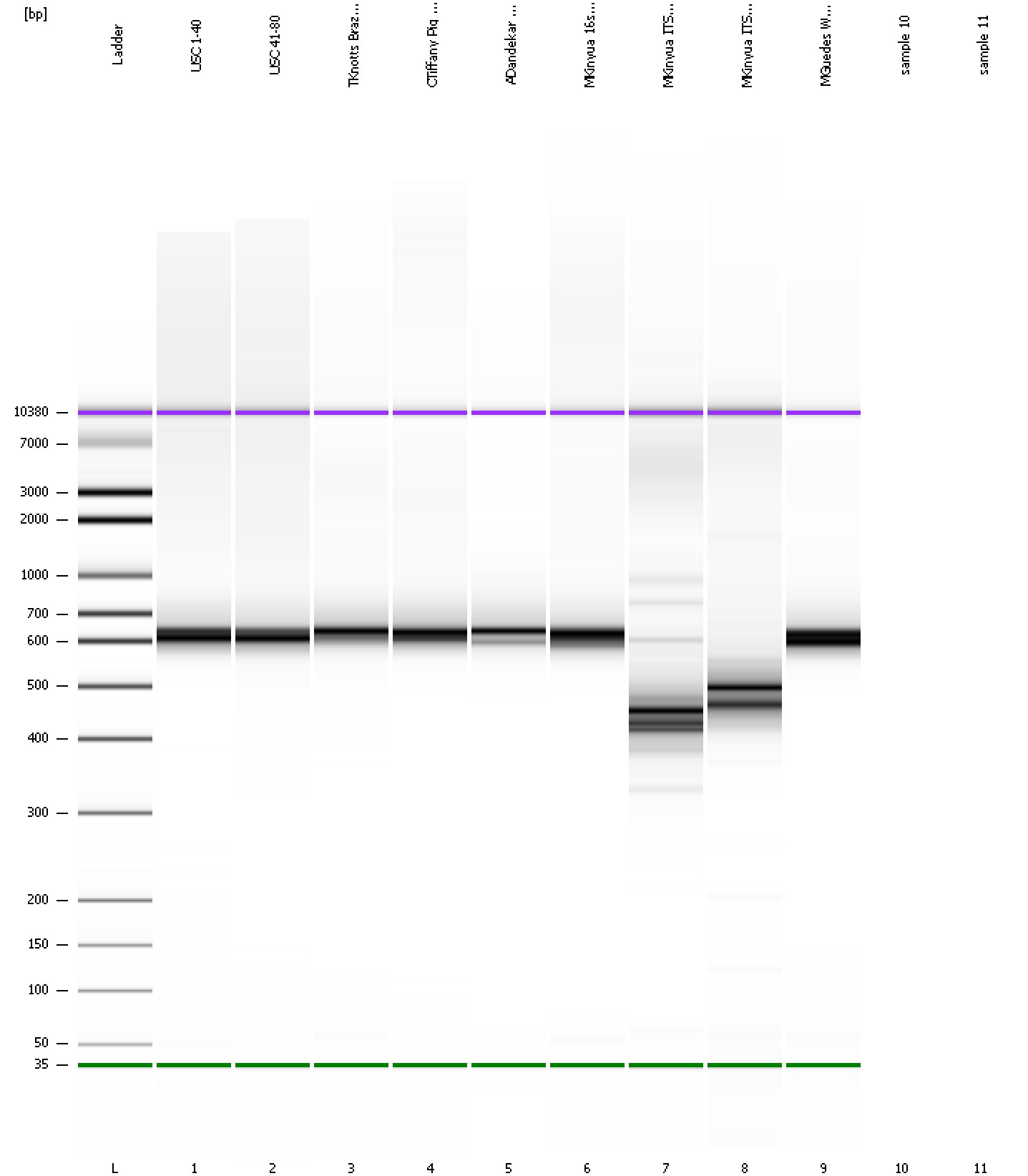
Region table for sample 9 : MGuedes Weber 31

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	625	1,479.51	1,799.0	3,611.1	89	9.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad

Created: 5/23/2019 9:38:41 AM
Modified: 5/23/2019 10:14:23 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		5/23/2019 10:14:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-05-23\2019-05-23_001.xad)		Instrument	Run		5/23/2019 9:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/23/2019 9:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/23/2019 9:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/23/2019 9:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/23/2019 9:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/23/2019 9:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/23/2019 9:38:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1