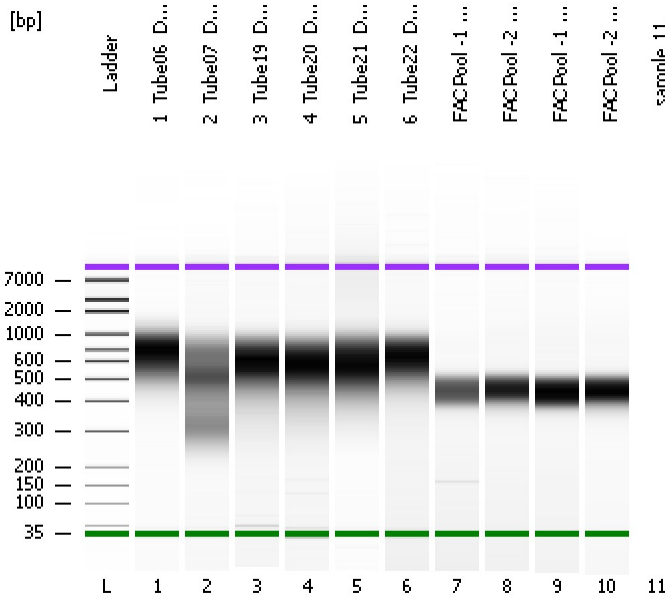


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
Modified: 9/1/2017 8:37:11 AM

Electrophoresis File Run Summary



Instrument Information:

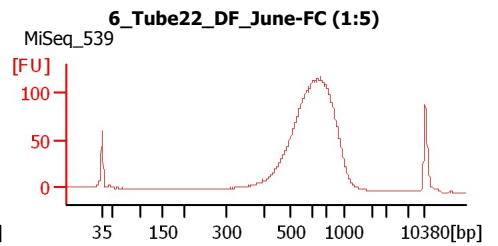
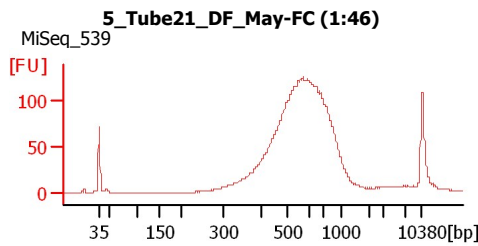
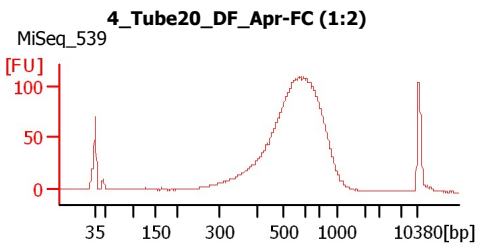
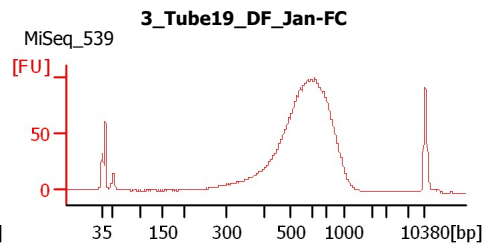
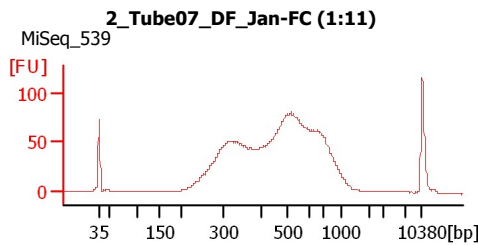
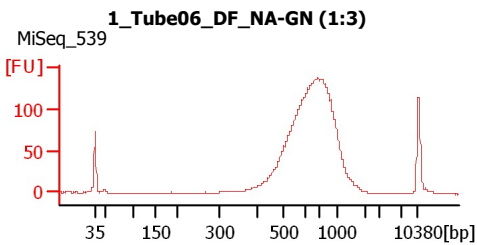
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:

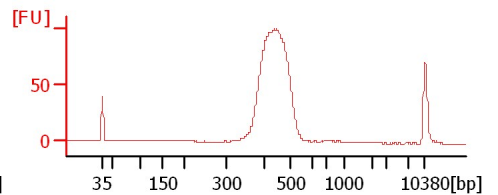
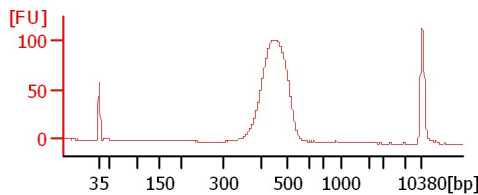
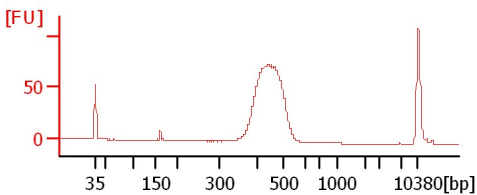
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



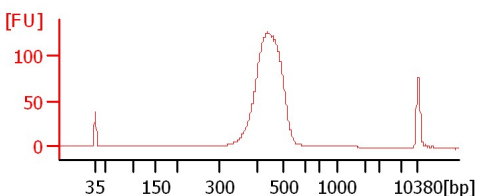
FAC Pool -1 PippinHT (0.5ul)

FAC Pool -2 PippinHT (0.5ul)

FAC Pool -1 PippinHT (0.5ul)



FAC Pool -2 PippinHT (0.5ul)



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1_Tube06_DF_NA-GN (1:3)	MiSeq_539	<input type="checkbox"/>	✓			
2_Tube07_DF_Jan-FC (1:11)	MiSeq_539	<input type="checkbox"/>	✓			
3_Tube19_DF_Jan-FC	MiSeq_539	<input type="checkbox"/>	✓			
4_Tube20_DF_Apr-FC (1:2)	MiSeq_539	<input type="checkbox"/>	✓			
5_Tube21_DF_May-FC (1:46)	MiSeq_539	<input type="checkbox"/>	✓			
6_Tube22_DF_June-FC (1:5)	MiSeq_539	<input type="checkbox"/>	✓			
FAC Pool -1 PippinHT (0.5ul)		<input type="checkbox"/>	✓			
FAC Pool -2 PippinHT (0.5ul)		<input type="checkbox"/>	✓			
FAC Pool -1 PippinHT (0.5ul)		<input type="checkbox"/>	✓			
FAC Pool -2 PippinHT (0.5ul)		<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\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
Modified: 9/1/2017 8:37:11 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

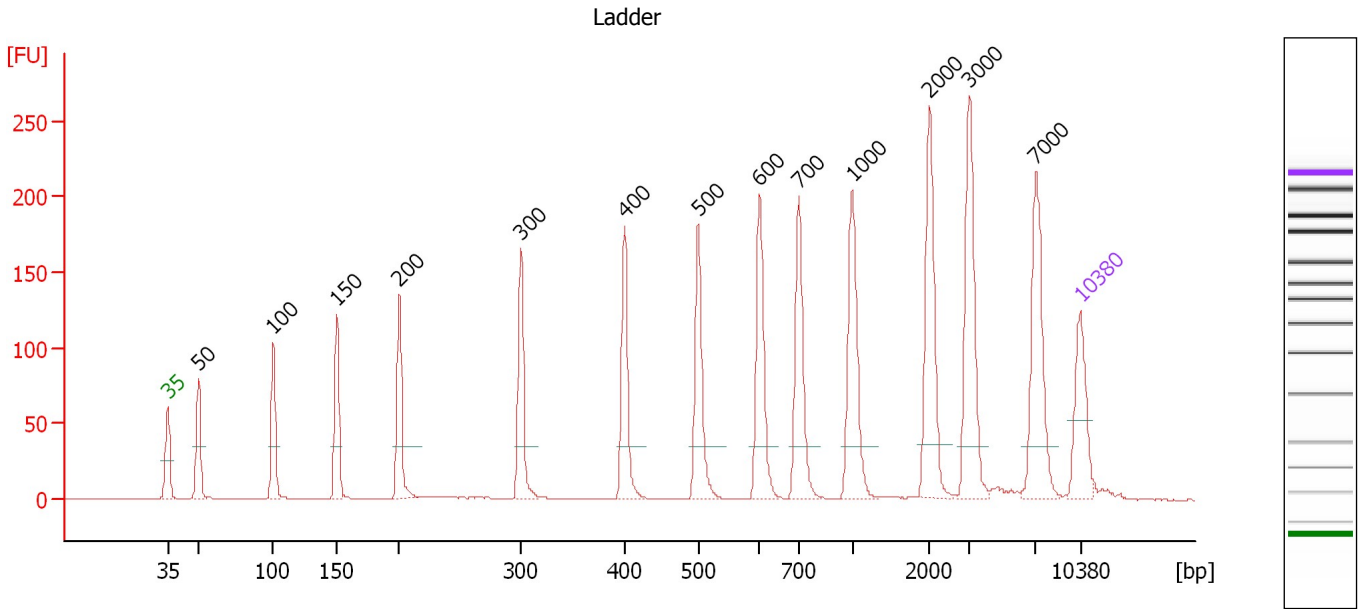
Ladder

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\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

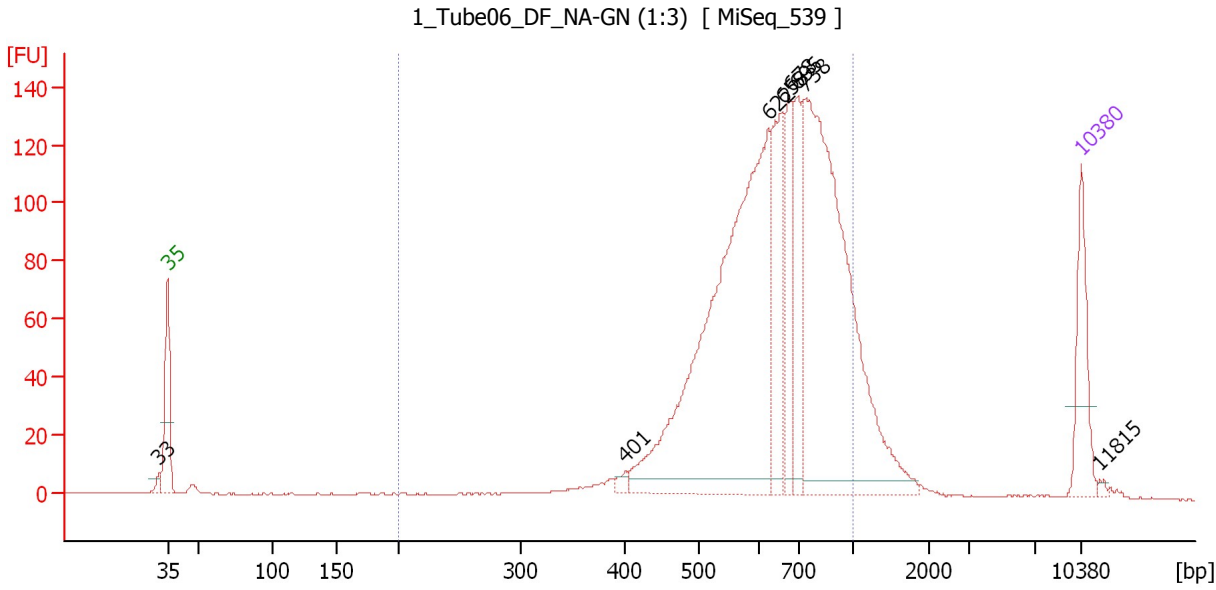
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	55.95
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	78.02
8	500	150.00	454.5	Ladder Peak	83.69
9	600	150.00	378.8	Ladder Peak	88.39
10	700	150.00	324.7	Ladder Peak	91.36
11	1,000	150.00	227.3	Ladder Peak	95.49
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.46
14	7,000	150.00	32.5	Ladder Peak	109.55
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1 Tube06 DF NA-GN (1:3)

Number of peaks found: 8 Corr. Area 1: 1,642.1
 Noise: 0.2

Peak table for sample 1 : 1 Tube06 DF NA-GN (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.36
2	35	125.00	5,411.3	Lower Marker	43.00
3	401	9.55	36.1		78.10
4	622	773.30	1,883.1		89.05
5	658	148.24	341.2		90.12
6	678	113.96	254.6		90.71
7	695	107.37	234.2		91.20
8	738	676.70	1,389.6		91.88
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,815	0.00	0.0		114.47

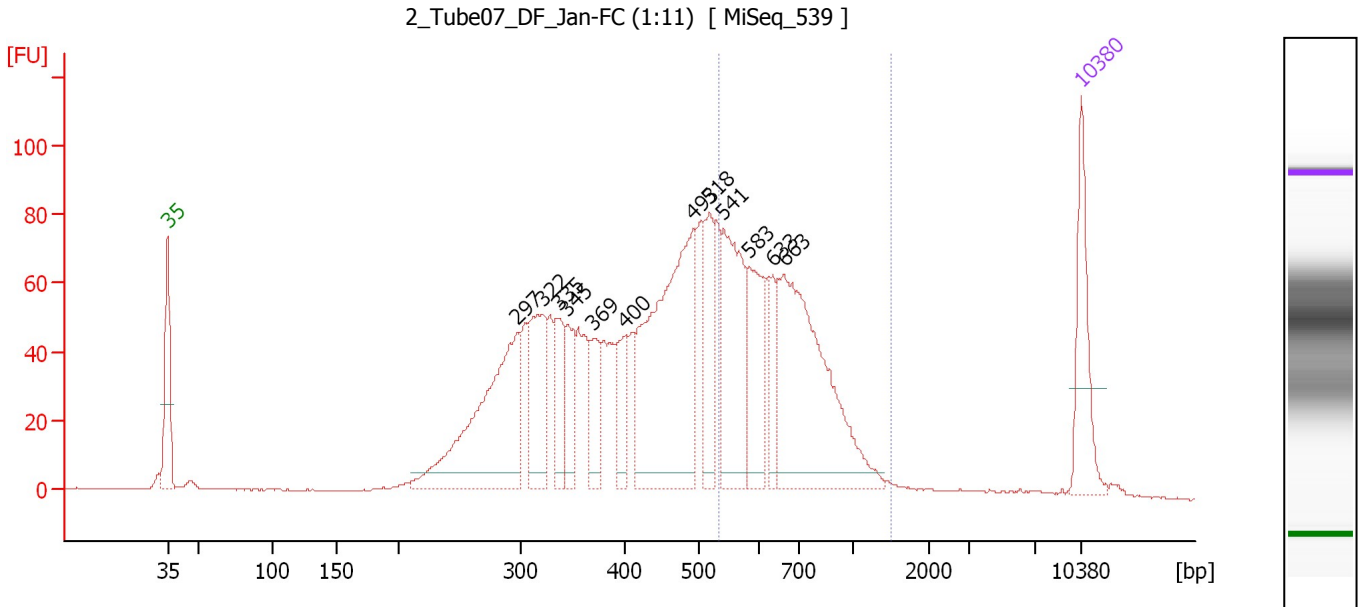
Region table for sample 1 : 1 Tube06 DF NA-GN (1:3)

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	663	1,642.1	4,359.0	1,785.97	91	22.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2_Tube07_DF_Jan-FC (1:11)

Number of peaks found: 12 Corr. Area 1: 671.6
 Noise: 0.2

Peak table for sample 2 : 2_Tube07_DF_Jan-FC (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	297	303.68	1,551.1		69.79
3	322	122.68	577.9		71.82
4	335	68.16	307.9		72.91
5	345	56.41	247.9		73.65
6	369	55.93	229.6		75.58
7	400	52.62	199.1		78.05
8	493	365.91	1,124.5		83.29
9	518	90.16	263.8		84.53
10	541	168.80	472.8		85.61
11	583	105.76	274.8		87.59
12	633	45.27	108.3		89.37
13	663	305.39	697.9		90.26
14	10,380	75.00	10.9	Upper Marker	113.00

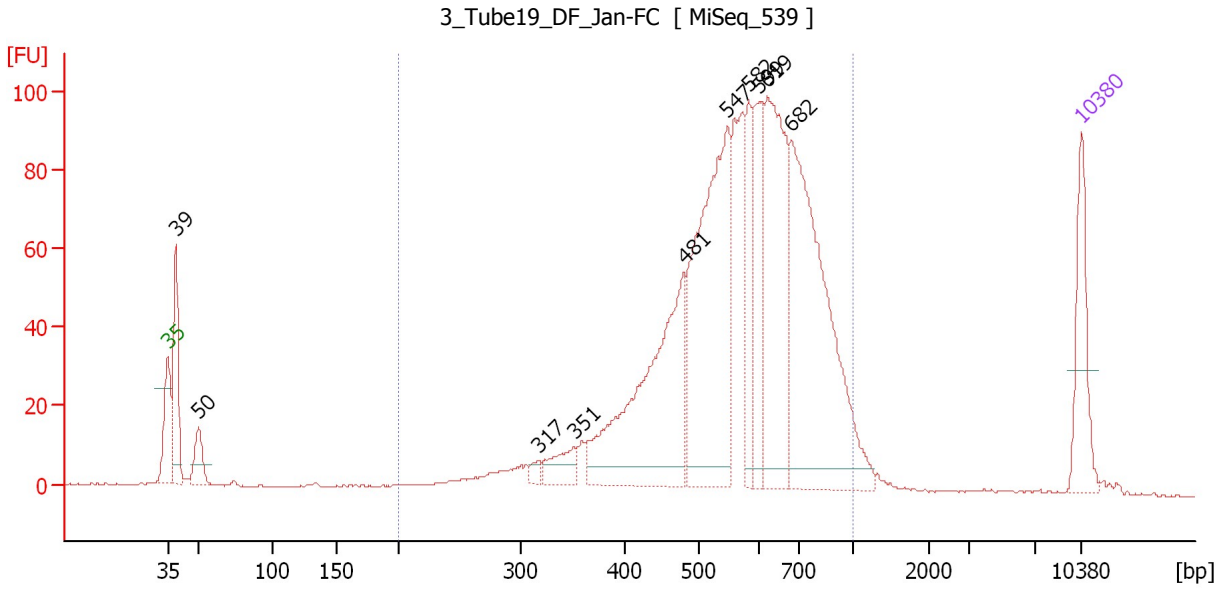
Region table for sample 2 : 2_Tube07_DF_Jan-FC (1:11)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
534	1,496	686	671.6	1,549.9	670.47	32	22.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3 Tube19 DF Jan-FC

Number of peaks found: 10 Corr. Area 1: 1,511.9
 Noise: 0.2

Peak table for sample 3 : 3 Tube19 DF Jan-FC

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	39	138.61	5,373.3		43.64
3	50	46.10	1,393.7		45.36
4	317	11.16	53.4		71.42
5	351	40.49	174.8		74.13
6	481	345.01	1,086.9		82.61
7	547	390.86	1,082.2		85.91
8	582	91.59	238.5		87.53
9	599	104.14	263.6		88.32
10	619	269.20	658.6		88.96
11	682	418.93	930.4		90.83
12	10,380	75.00	10.9	Upper Marker	113.00

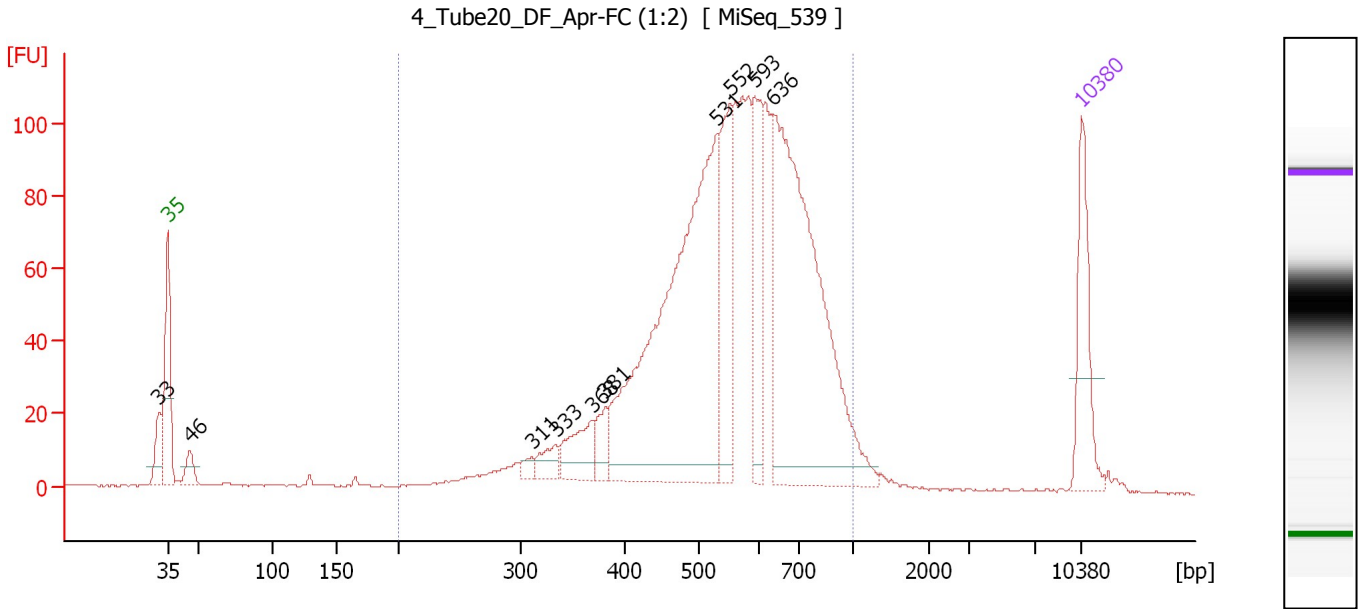
Region table for sample 3 : 3 Tube19 DF Jan-FC

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	584	1,511.9	5,609.1	1,964.87	91	24.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4 Tube20 DF Apr-FC (1:2)

Number of peaks found: 10 Corr. Area 1: 1,731.6
 Noise: 0.2

Peak table for sample 4 : 4 Tube20 DF Apr-FC (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.34
2	35	125.00	5,411.3	Lower Marker	43.00
3	46	26.27	866.4		44.71
4	311	10.18	49.7		70.94
5	333	23.14	105.2		72.76
6	368	54.06	222.3		75.53
7	381	29.10	115.6		76.54
8	531	587.11	1,674.0		85.16
9	552	136.11	373.8		86.12
10	593	96.04	245.6		88.04
11	636	481.25	1,147.1		89.45
12	10,380	75.00	10.9	Upper Marker	113.00

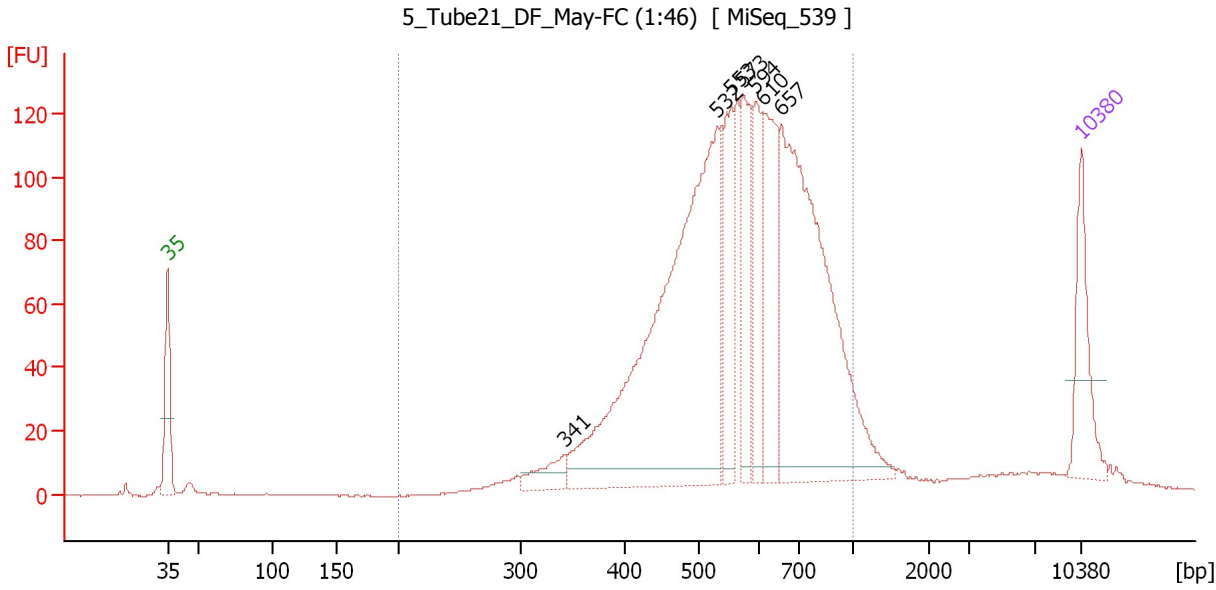
Region table for sample 4 : 4 Tube20 DF Apr-FC (1:2)

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	568	1,731.6	5,564.5	1,891.85	92	25.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5 Tube21 DF May-FC (1:46)

Number of peaks found: 7 Corr. Area 1: 2,030.0
 Noise: 0.2

Peak table for sample 5 : 5 Tube21 DF May-FC (1:46)

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	341	41.06	182.3		73.38
3	532	766.27	2,183.8		85.17
4	553	128.01	350.5		86.19
5	573	114.47	302.7		87.11
6	594	95.78	244.5		88.08
7	610	150.80	374.3		88.70
8	657	535.83	1,236.2		90.08
9	10,380	75.00	10.9	Upper Marker	113.00

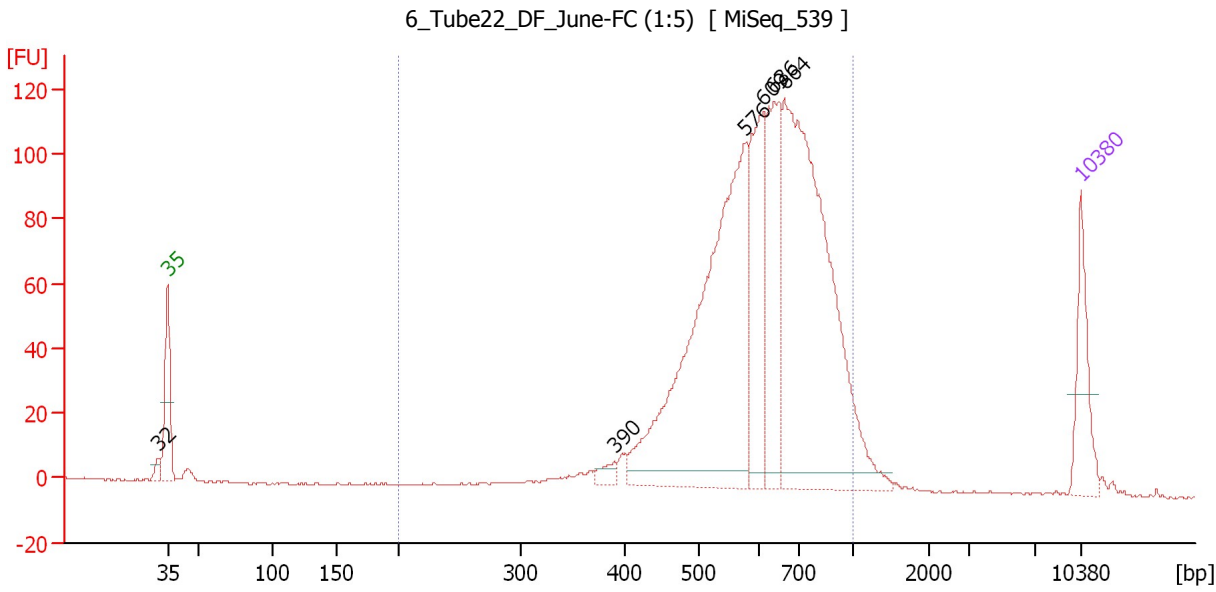
Region table for sample 5 : 5 Tube21 DF May-FC (1:46)

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	581	2,030.0	5,980.7	2,095.77	90	25.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6 Tube22 DF June-FC (1:5)

Number of peaks found: 6 Corr. Area 1: 1,458.4
 Noise: 0.3

Peak table for sample 6 : 6 Tube22 DF June-FC (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.23
2	35	125.00	5,411.3	Lower Marker	43.00
3	390	17.73	68.9		77.23
4	576	691.85	1,819.7		87.26
5	609	206.12	513.1		88.64
6	636	200.82	478.3		89.46
7	664	734.44	1,676.8		90.28
8	10,380	75.00	10.9	Upper Marker	113.00

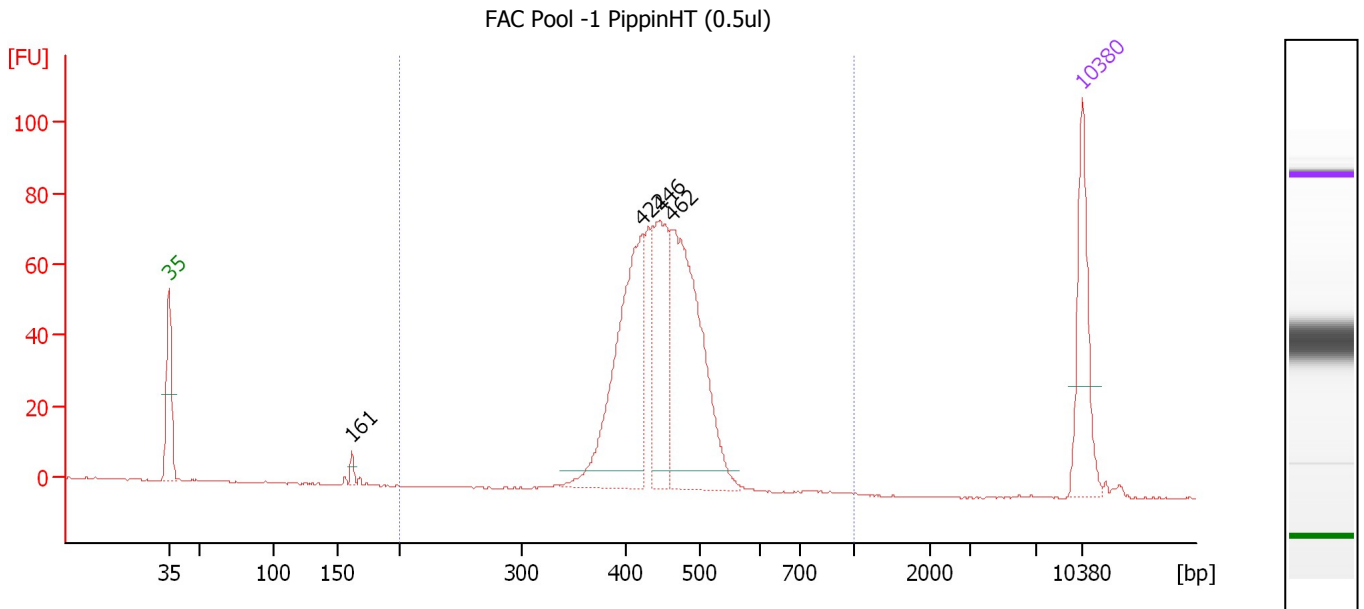
Region table for sample 6 : 6 Tube22 DF June-FC (1:5)

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	632	1,458.4	4,826.2	1,896.43	96	21.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : FAC Pool -1 PippinHT (0.5ul)

Number of peaks found: 4 Corr. Area 1: 657.5
 Noise: 0.2

Peak table for sample 7 : FAC Pool -1 PippinHT (0.5ul)

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	161	8.31	78.2		57.01
3	422	249.79	897.1		79.26
4	446	141.33	480.6		80.60
5	462	278.32	913.0		81.53
6	10,380	75.00	10.9	Upper Marker	113.00

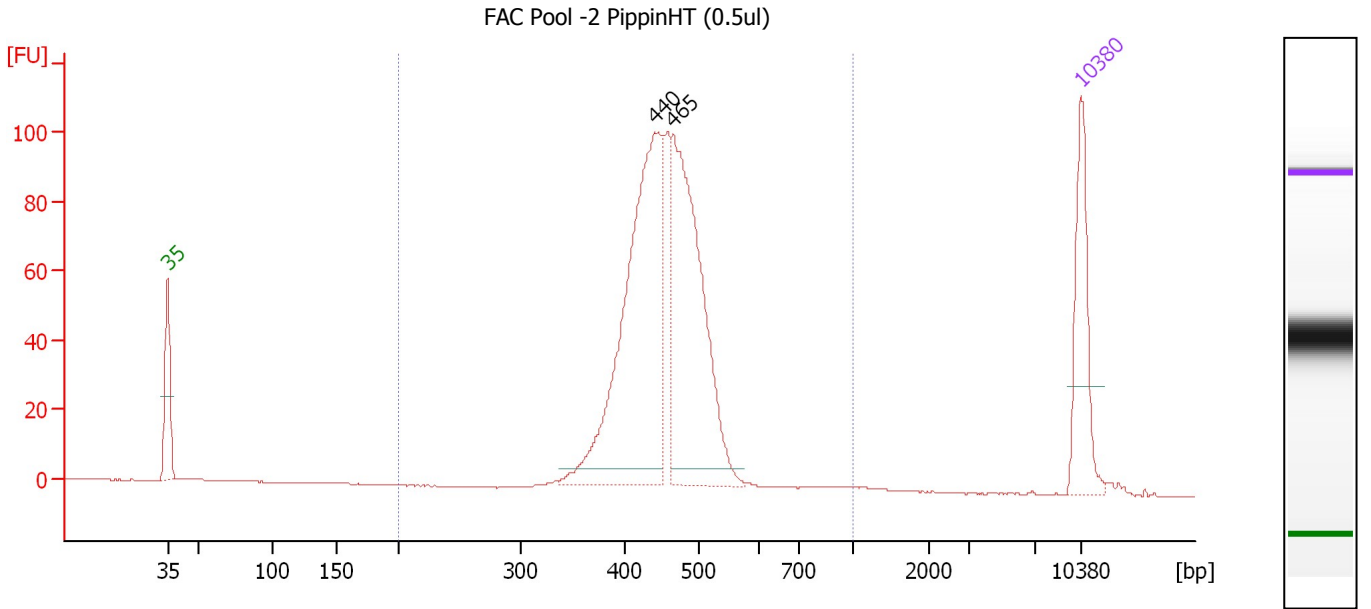
Region table for sample 7 : FAC Pool -1 PippinHT (0.5ul)

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	447	657.5	2,546.0	744.41	98	9.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : FAC Pool -2 PippinHT (0.5ul)

Number of peaks found: 2 Corr. Area 1: 853.9
 Noise: 0.1

Peak table for sample 8 : FAC Pool -2 PippinHT (0.5ul)

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	440	404.25	1,390.9		80.31
3	465	321.37	1,046.9		81.71
4	10,380	75.00	10.9	Upper Marker	113.00

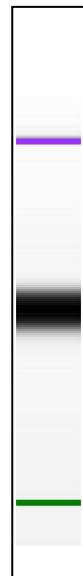
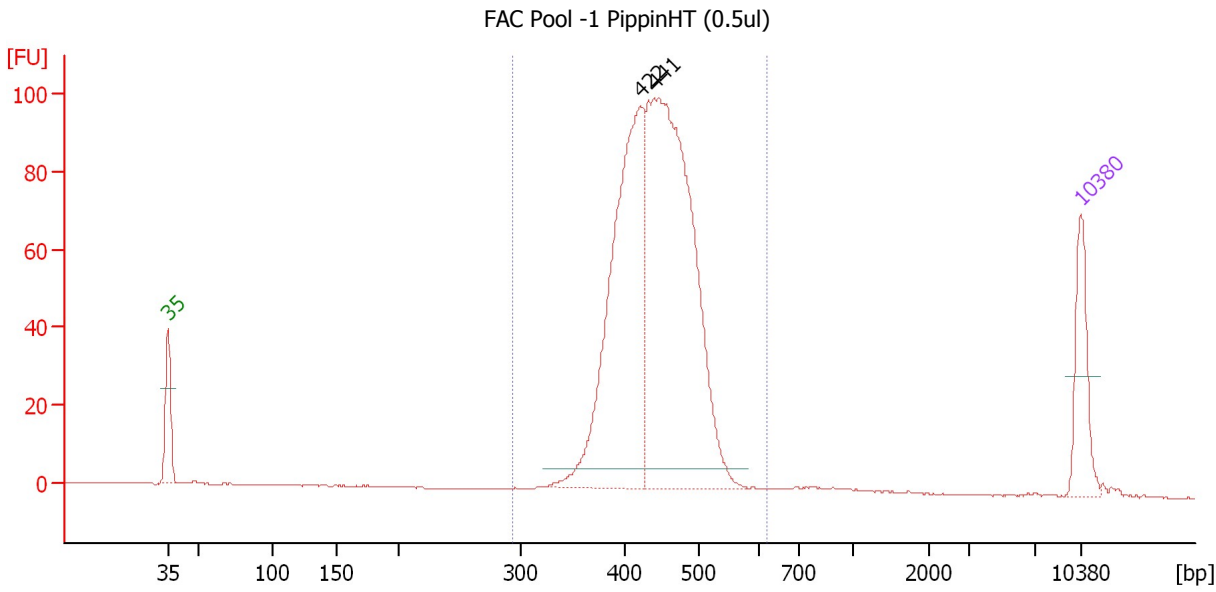
Region table for sample 8 : FAC Pool -2 PippinHT (0.5ul)

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	455	853.9	2,814.7	834.32	98	12.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : FAC Pool -1 PippinHT (0.5ul)

Number of peaks found: 2 Corr. Area 1: 899.8
 Noise: 0.1

Peak table for sample 9 : FAC Pool -1 PippinHT (0.5ul)

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	422	586.80	2,106.2		79.28
3	441	832.84	2,864.4		80.32
4	10,380	75.00	10.9	Upper Marker	113.00

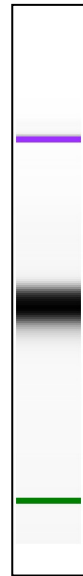
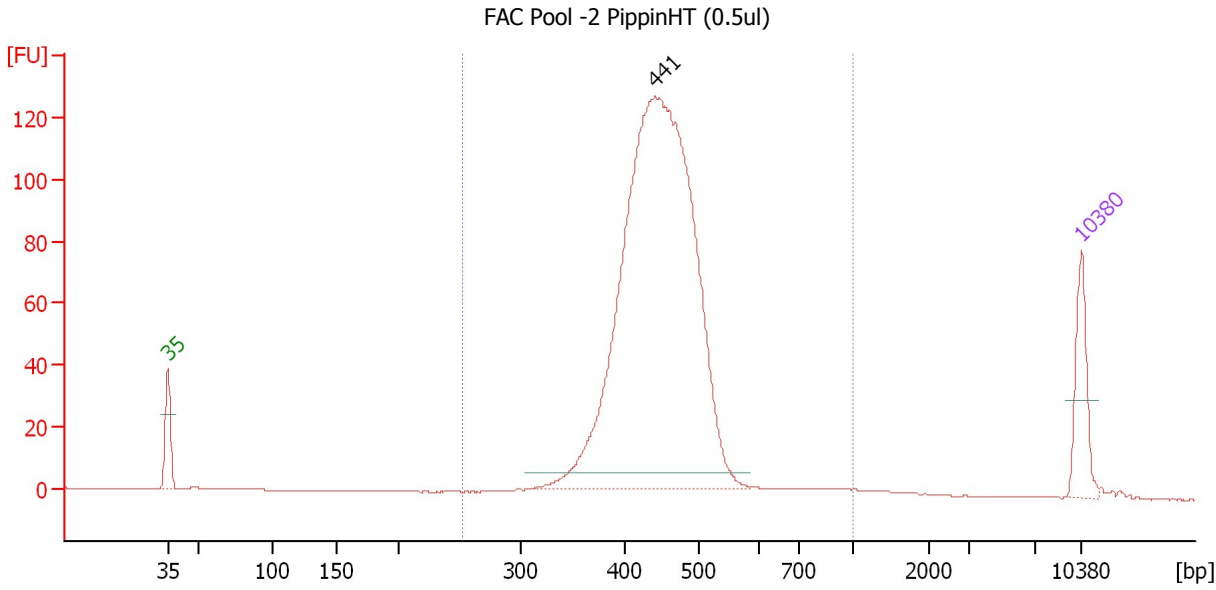
Region table for sample 9 : FAC Pool -1 PippinHT (0.5ul)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
293	619	441	899.8	5,039.8	1,452.79	98	9.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
 Modified: 9/1/2017 8:37:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : FAC Pool -2 PippinHT (0.5ul)

Number of peaks found: 1 Corr. Area 1: 1,094.6
 Noise: 0.1

Peak table for sample 10 : FAC Pool -2 PippinHT (0.5ul)

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	441	1,628.11	5,596.4		80.33
3	10,380	75.00	10.9	Upper Marker	113.00

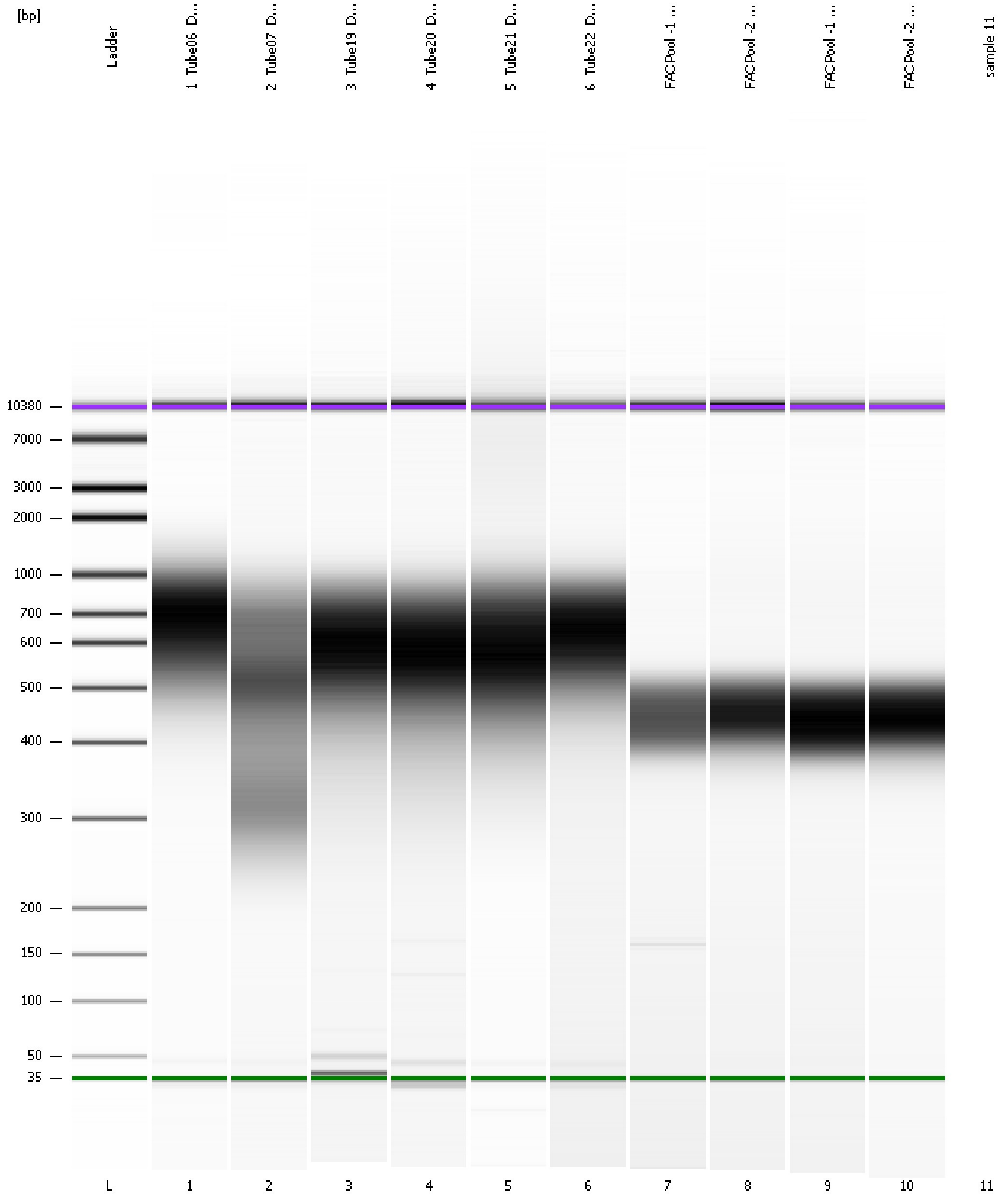
Region table for sample 10 : FAC Pool -2 PippinHT (0.5ul)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
252	1,000	450	1,094.6	5,849.1	1,708.11	98	13.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
Modified: 9/1/2017 8:37:11 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-01\2017-09-01_001.xad

Created: 9/1/2017 7:11:27 AM
Modified: 9/1/2017 8:37:11 AM

Invalid Samples

Sample 11 has not been run, no results available.