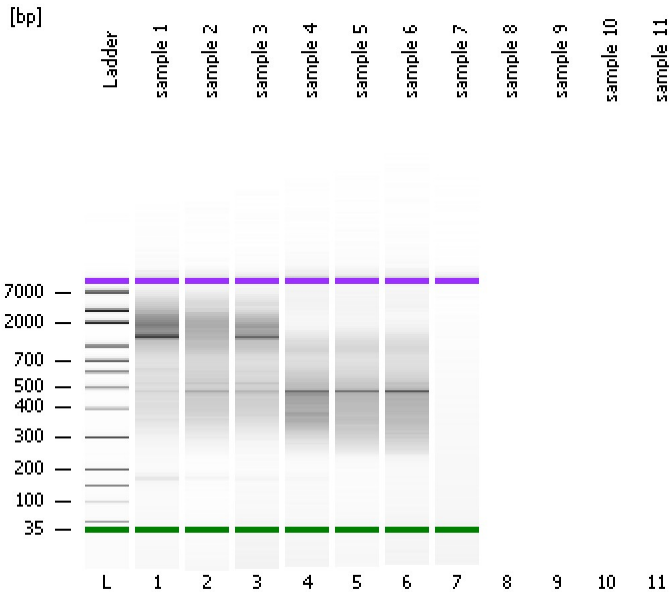


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
Modified: 1/25/2019 4:15:36 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

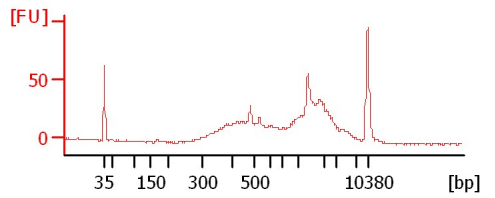
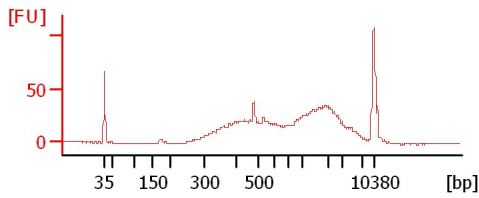
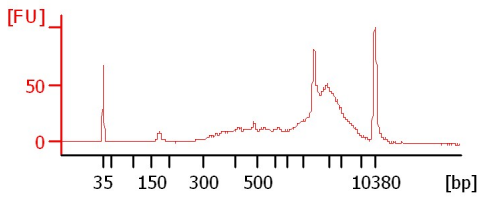
Chip Information:

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

sample 1

sample 2

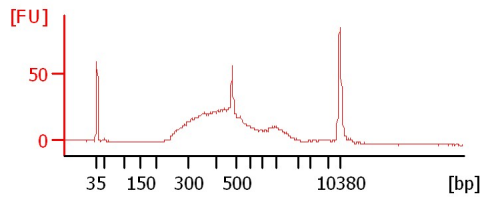
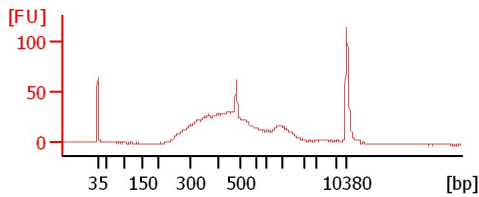
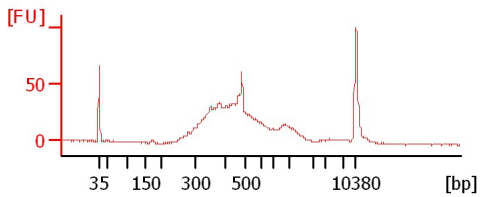
sample 3



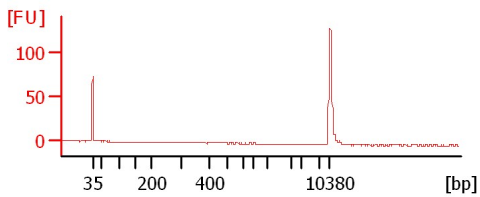
sample 4

sample 5

sample 6



sample 7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<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\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
Modified: 1/25/2019 4:15:36 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

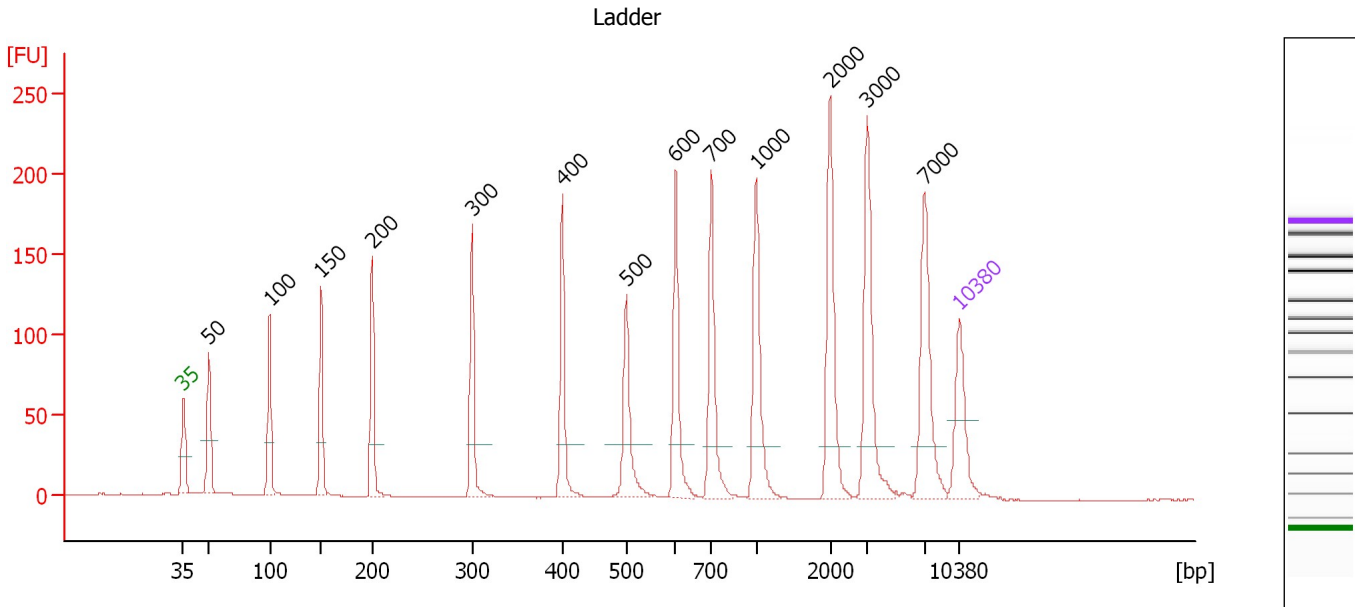
Ladder

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\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

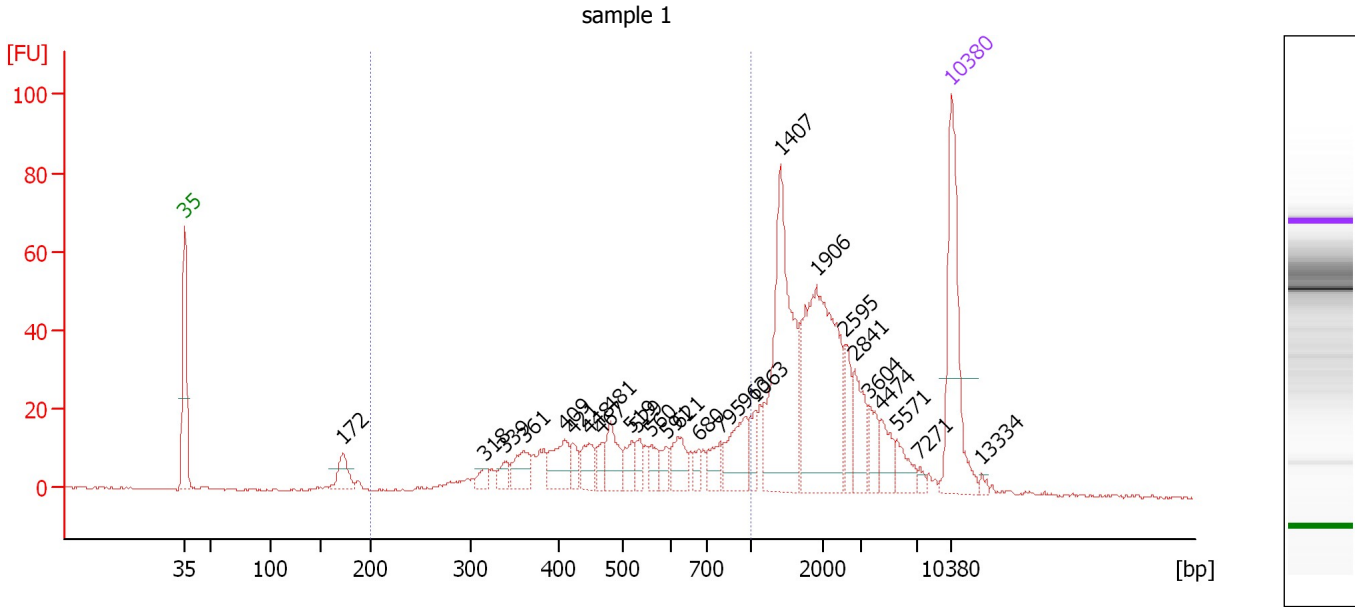
Peak table for Ladder

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	45.31
3	100	150.00	2,272.7	Ladder Peak	50.79
4	150	150.00	1,515.2	Ladder Peak	55.45
5	200	150.00	1,136.4	Ladder Peak	60.02
6	300	150.00	757.6	Ladder Peak	69.06
7	400	150.00	568.2	Ladder Peak	77.18
8	500	150.00	454.5	Ladder Peak	82.95
9	600	150.00	378.8	Ladder Peak	87.38
10	700	150.00	324.7	Ladder Peak	90.60
11	1,000	150.00	227.3	Ladder Peak	94.68
12	2,000	150.00	113.6	Ladder Peak	101.32
13	3,000	150.00	75.8	Ladder Peak	104.68
14	7,000	150.00	32.5	Ladder Peak	109.83
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 27 Corr. Area 1: 361.6
 Noise: 0.3

Peak table for sample 1 : sample 1

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	172	23.35	205.8		57.45
3	318	9.31	44.4		70.48
4	339	10.44	46.6		72.24
5	361	23.43	98.4		73.99
6	409	29.38	108.9		77.68
7	421	11.92	42.9		78.41
8	448	19.41	65.6		79.97
9	467	10.66	34.6		81.04
10	481	26.17	82.4		81.87
11	519	13.94	40.7		83.81
12	529	11.28	32.3		84.25
13	560	12.01	32.5		85.61
14	591	10.68	27.4		86.97
15	621	21.46	52.4		88.05
16	680	8.47	18.9		89.94
17	795	16.05	30.6		91.89
18	963	33.55	52.8		94.17
19	1,063	14.52	20.7		95.10
20	1,407	129.46	139.4		97.38
21	1,906	134.35	106.8		100.69
22	2,595	18.71	10.9		103.32
23	2,841	27.73	14.8		104.15
24	3,604	14.49	6.1		105.46
25	4,474	16.01	5.4		106.58

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,571	14.50	3.9		107.99
27	7,271	3.13	0.7		110.08
28	10,380	75.00	10.9	Upper Marker	113.00
29	13,334	0.00	0.0		115.77

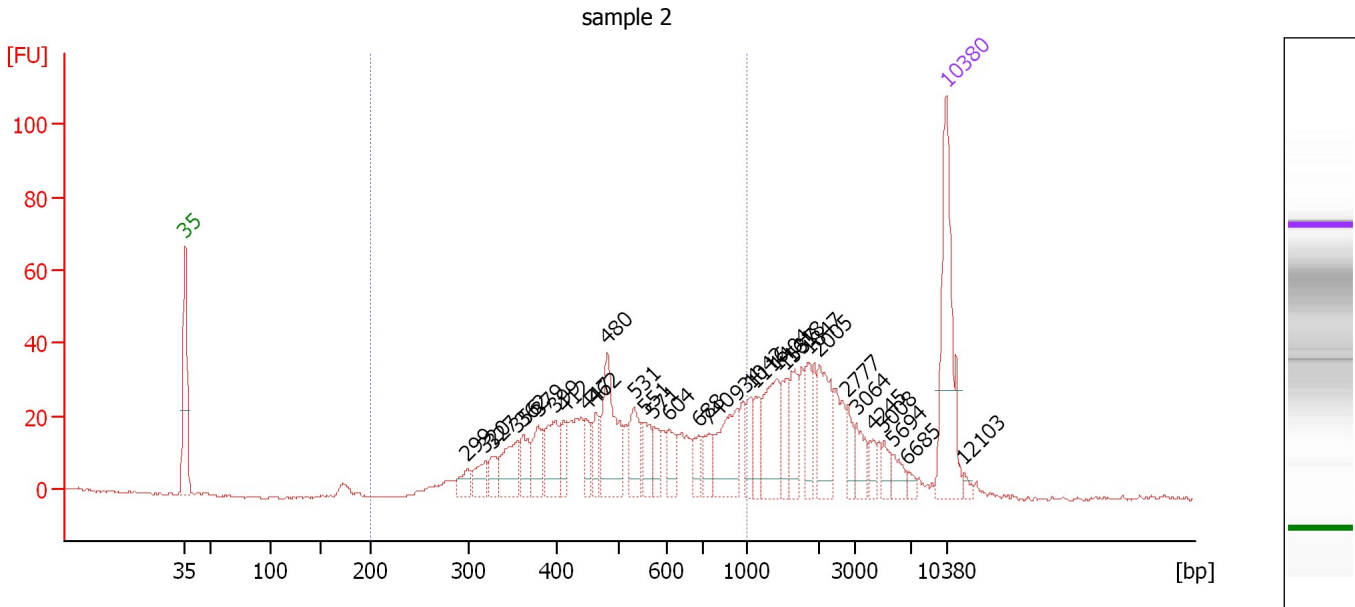
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	553	362.05	361.6	1,159.0	40	34.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 32 Corr. Area 1: 560.6
 Noise: 0.3

Peak table for sample 2 : sample 2

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	299	13.94	70.7		68.93
3	320	17.52	83.1		70.65
4	327	14.76	68.3		71.28
5	356	35.35	150.5		73.59
6	362	22.27	93.1		74.13
7	379	24.01	95.9		75.50
8	399	36.80	139.9		77.07
9	412	16.23	59.7		77.85
10	447	17.36	58.8		79.91
11	462	18.03	59.2		80.75
12	480	63.79	201.2		81.82
13	531	28.93	82.5		84.32
14	551	19.98	54.9		85.21
15	571	12.56	33.3		86.09
16	604	15.93	39.9		87.51
17	688	13.97	30.8		90.21
18	740	14.95	30.6		91.14
19	934	43.66	70.8		93.78
20	1,042	15.66	22.8		94.96
21	1,116	15.72	21.3		95.45
22	1,404	41.30	44.6		97.36
23	1,537	17.05	16.8		98.25
24	1,618	23.91	22.4		98.78
25	1,847	16.84	13.8		100.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,005	34.66	26.2		101.33
27	2,777	10.68	5.8		103.93
28	3,064	15.34	7.6		104.76
29	4,245	7.83	2.8		106.28
30	5,008	8.24	2.5		107.26
31	5,694	8.90	2.4		108.15
32	6,685	3.91	0.9		109.42
33	10,380	75.00	10.9	Upper Marker	113.00
34	12,103	0.00	0.0		114.62

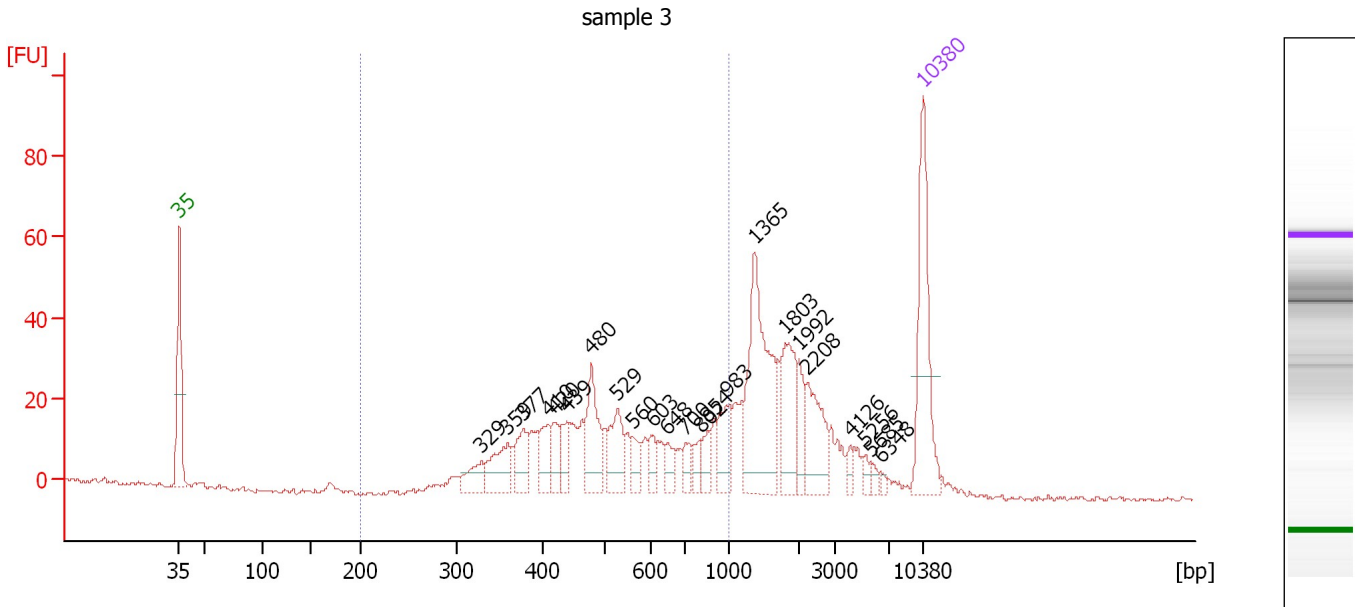
Region table for sample 2 : sample 2

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	539	530.76	560.6	1,715.9	60	33.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 23 Corr. Area 1: 398.8
 Noise: 0.4

Peak table for sample 3 : sample 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	329	22.20	102.2		71.43
3	359	36.93	155.7		73.89
4	377	28.88	115.9		75.34
5	410	25.50	94.3		77.75
6	420	20.71	74.7		78.35
7	439	20.43	70.5		79.45
8	480	50.83	160.4		81.81
9	529	37.00	106.1		84.22
10	560	12.97	35.1		85.62
11	603	12.68	31.8		87.48
12	648	12.34	28.8		88.93
13	700	12.57	27.2		90.59
14	802	11.04	20.9		91.99
15	854	12.34	21.9		92.69
16	983	28.47	43.9		94.45
17	1,365	114.24	126.8		97.10
18	1,803	46.45	39.0		100.01
19	1,992	19.78	15.0		101.27
20	2,208	40.27	27.6		102.02
21	4,126	6.18	2.3		106.13
22	5,256	4.92	1.4		107.58
23	5,685	4.15	1.1		108.14
24	6,348	2.48	0.6		108.99
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...

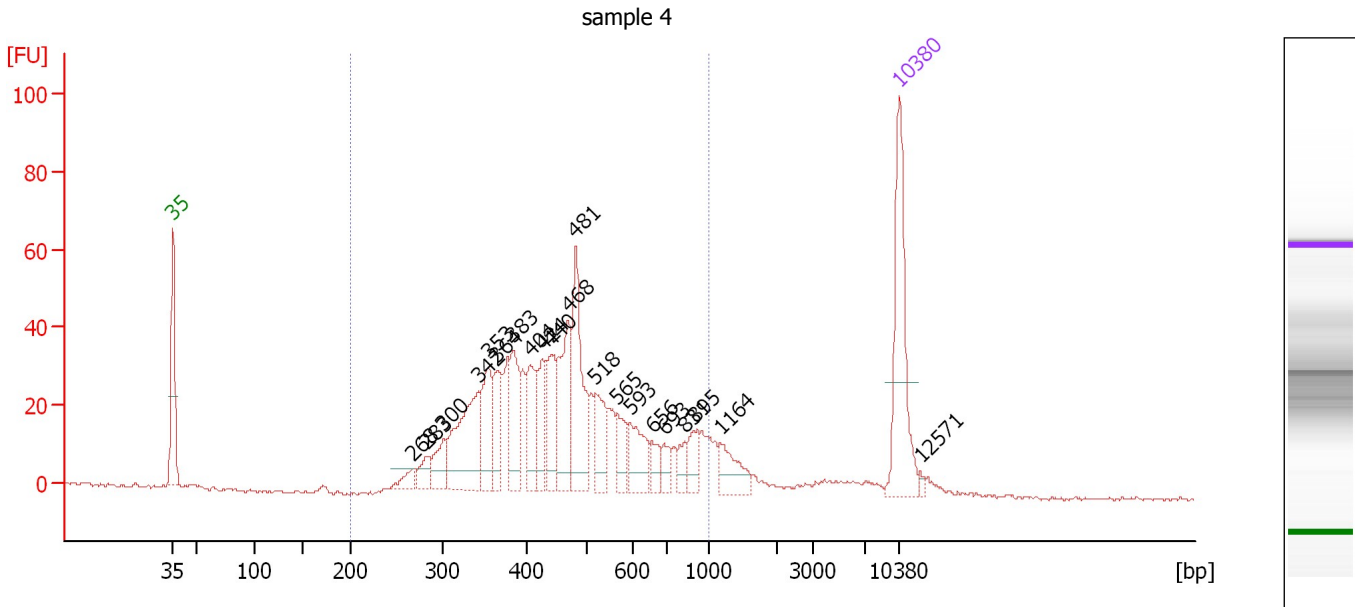
... Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	548	434.35	398.8	1,361.0	 53	32.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 21 Corr. Area 1: 795.8
 Noise: 0.4

Peak table for sample 4 : sample 4


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	268	11.18	63.3		66.14
3	283	14.96	80.1		67.53
4	300	24.53	123.8		69.08
5	342	87.87	389.3		72.47
6	353	50.65	217.1		73.40
7	364	36.55	152.3		74.22
8	383	46.27	183.0		75.81
9	404	39.12	146.7		77.41
10	424	31.49	112.4		78.59
11	440	43.85	151.1		79.47
12	468	64.35	208.3		81.11
13	481	80.80	254.7		81.83
14	518	32.51	95.2		83.73
15	565	22.02	59.0		85.84
16	593	33.51	85.6		87.08
17	656	13.31	30.7		89.19
18	693	12.15	26.6		90.37
19	831	11.05	20.2		92.38
20	895	16.89	28.6		93.25
21	1,164	24.56	32.0		95.77
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,571	0.00	0.0		115.06

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...

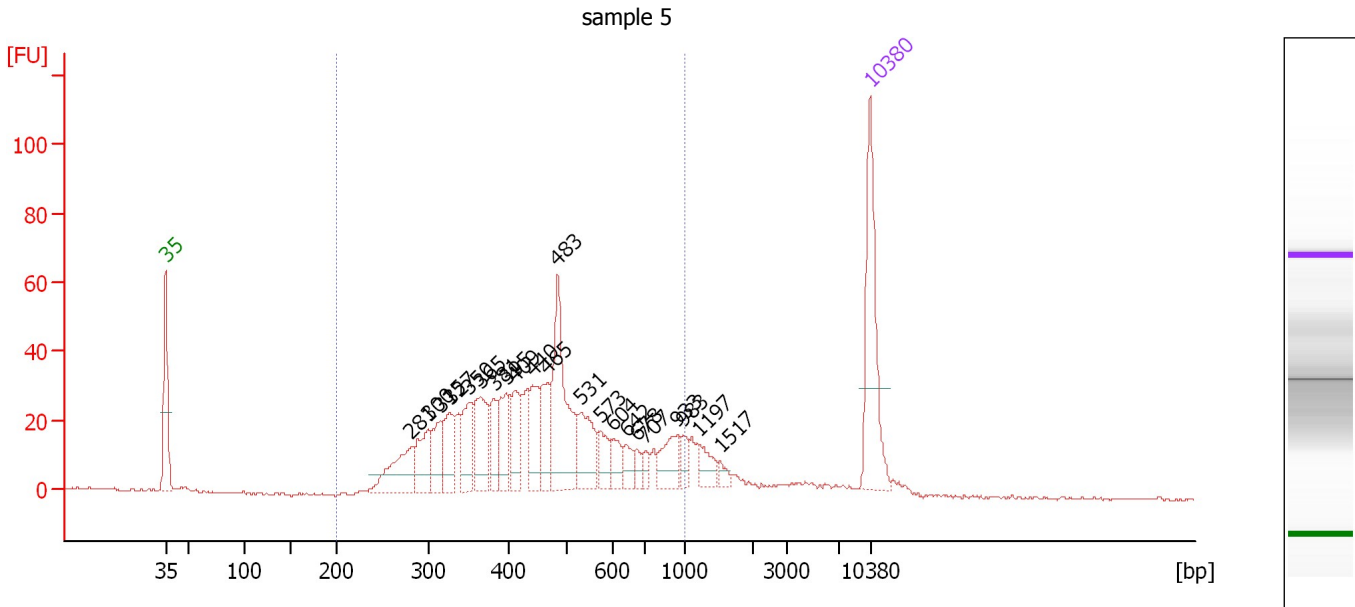
... Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	476	797.51	795.8	2,840.4	 90	32.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 22 Corr. Area 1: 797.5
 Noise: 0.4

Peak table for sample 5 : sample 5

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	281	57.67	310.6		67.38
3	300	38.43	194.0		69.07
4	315	36.02	173.2		70.29
5	327	34.68	160.7		71.24
6	350	38.29	165.6		73.15
7	365	54.88	228.0		74.32
8	381	27.25	108.4		75.64
9	395	40.30	154.4		76.81
10	409	33.59	124.4		77.71
11	440	38.62	132.9		79.51
12	465	36.71	119.6		80.94
13	483	106.74	335.1		81.95
14	531	42.02	119.9		84.33
15	573	18.84	49.8		86.19
16	604	16.10	40.4		87.51
17	642	12.17	28.7		88.73
18	678	8.18	18.3		89.90
19	707	7.31	15.7		90.69
20	933	26.21	42.6		93.76
21	983	10.04	15.5		94.45
22	1,197	15.56	19.7		95.99
23	1,517	5.60	5.6		98.11
24	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...

... Region table for sample 5 :

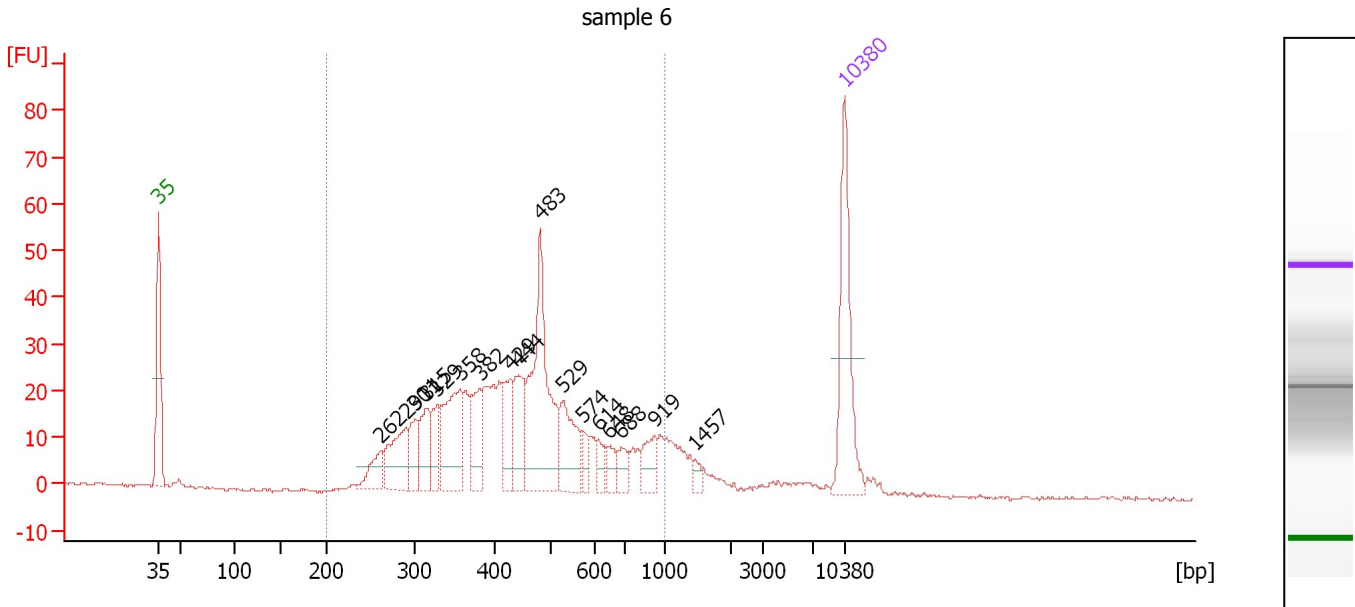
sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	472	790.56	797.5	2,906.4	 88	34.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

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 Modified: 1/25/2019 4:15:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 17 Corr. Area 1: 626.2
 Noise: 0.4

Peak table for sample 6 : sample 6

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	262	27.70	160.1		65.63
3	291	53.94	280.9		68.24
4	301	28.01	141.2		69.11
5	315	39.16	188.2		70.30
6	329	24.78	114.2		71.39
7	358	78.64	333.3		73.73
8	382	41.25	163.5		75.74
9	429	35.49	125.4		78.84
10	444	46.34	158.2		79.71
11	483	141.41	444.0		81.94
12	529	50.40	144.4		84.23
13	574	12.37	32.6		86.24
14	614	9.39	23.2		87.82
15	648	10.44	24.4		88.91
16	688	13.40	29.5		90.21
17	919	20.11	33.1		93.58
18	1,457	5.53	5.8		97.72
19	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	464	789.20	626.2	2,939.7	89	33.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-25\2019-01-25_009.xad

Created: 1/25/2019 3:45:44 PM
Modified: 1/25/2019 4:15:36 PM

Gel Image

