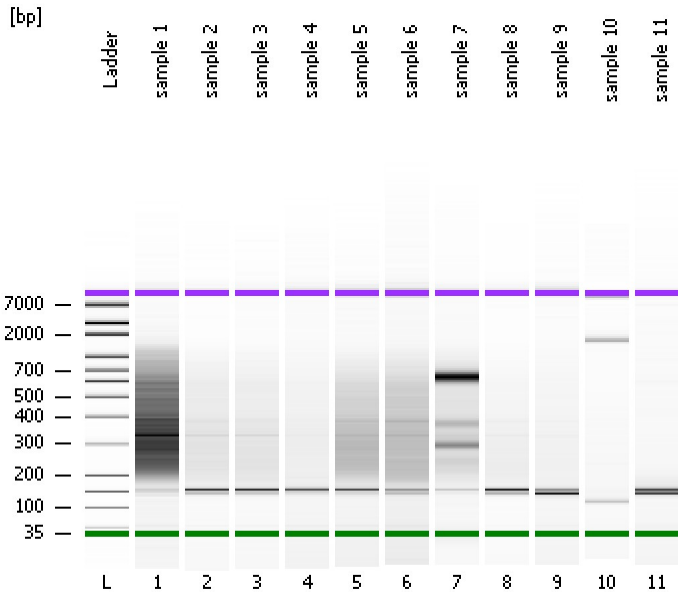


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
Modified: 2/2/2018 11:38:53 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

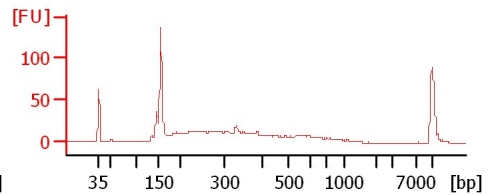
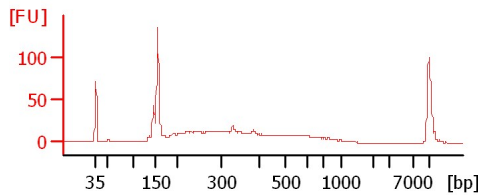
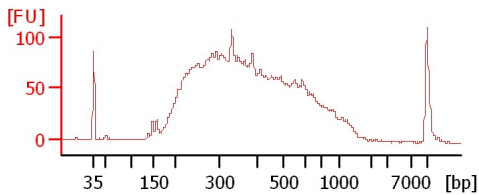
Chip Information:

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

sample 1

sample 2

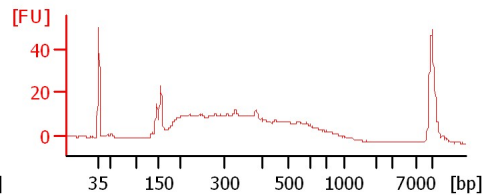
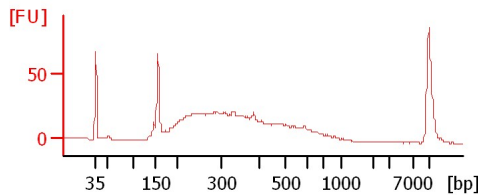
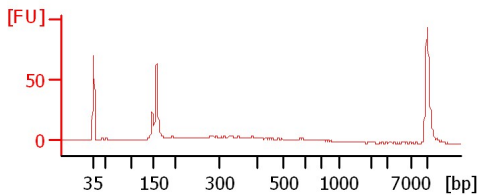
sample 3



sample 4

sample 5

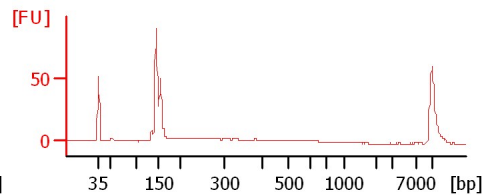
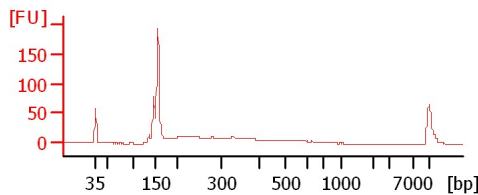
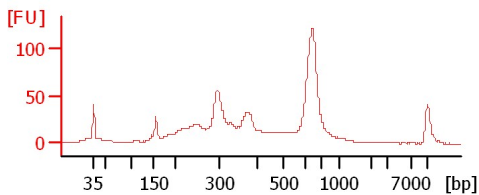
sample 6



sample 7

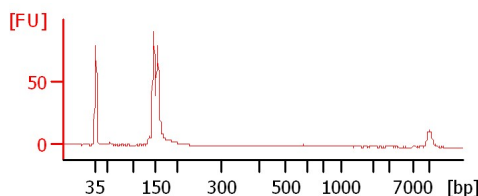
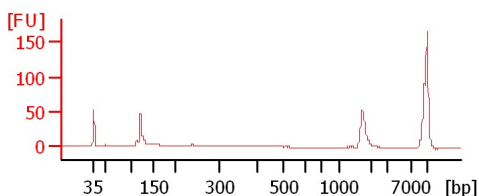
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
Modified: 2/2/2018 11:38:53 AM

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 #

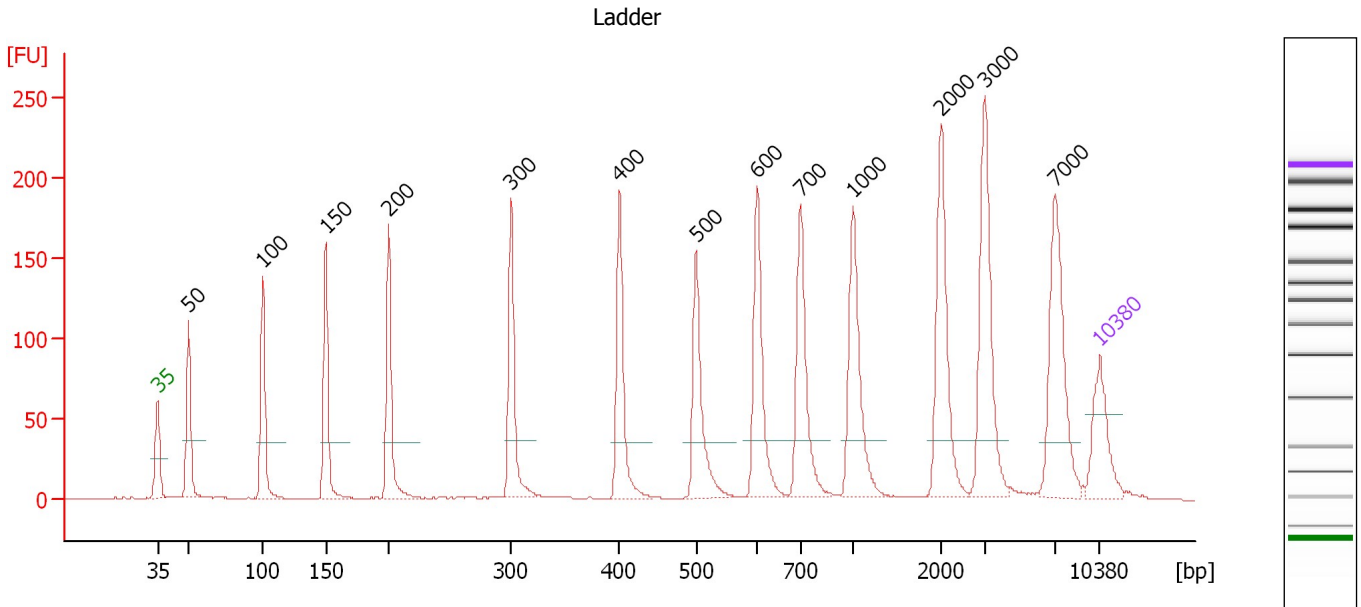
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

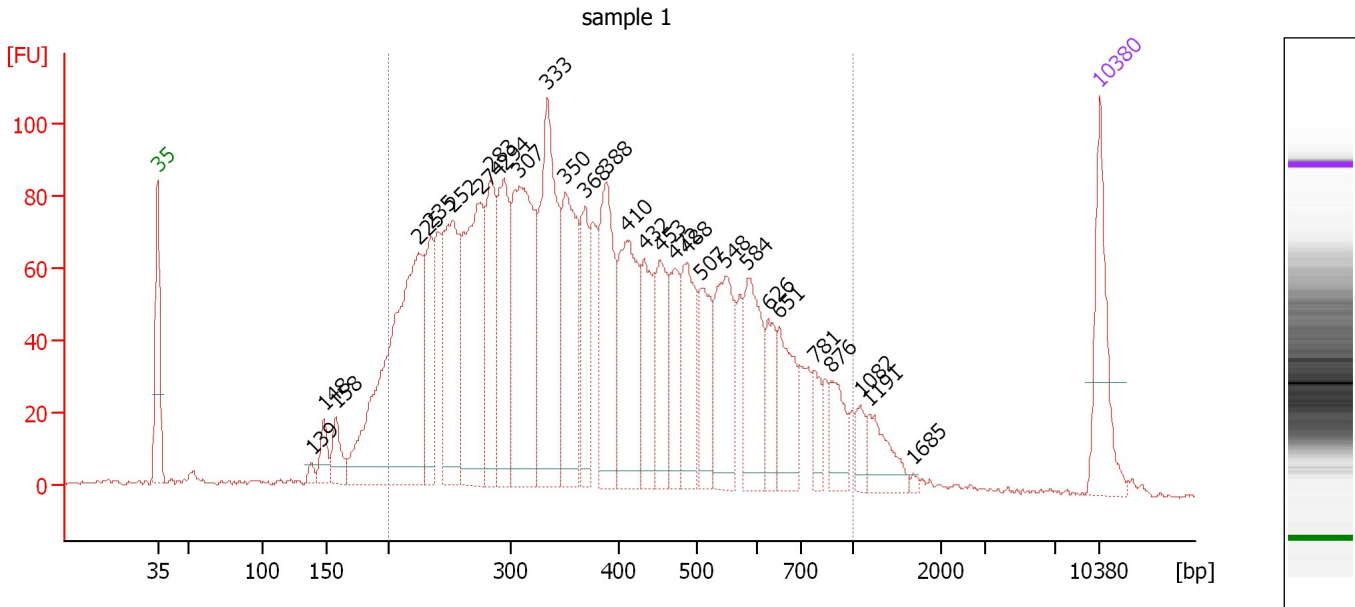
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.52
5	200	150.00	1,136.4	Ladder Peak	60.15
6	300	150.00	757.6	Ladder Peak	69.27
7	400	150.00	568.2	Ladder Peak	77.31
8	500	150.00	454.5	Ladder Peak	83.03
9	600	150.00	378.8	Ladder Peak	87.51
10	700	150.00	324.7	Ladder Peak	90.72
11	1,000	150.00	227.3	Ladder Peak	94.66
12	2,000	150.00	113.6	Ladder Peak	101.17
13	3,000	150.00	75.8	Ladder Peak	104.47
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\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 29 Corr. Area 1: 2,921.2
 Noise: 0.4

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	139	9.02	98.5		54.47
3	148	30.83	314.8		55.37
4	158	37.78	363.2		56.23
5	225	443.07	2,987.1		62.41
6	235	99.59	643.0		63.32
7	252	196.69	1,181.1		64.93
8	274	256.30	1,415.4		66.94
9	283	131.83	706.7		67.69
10	294	144.00	741.6		68.75
11	307	266.02	1,312.0		69.85
12	333	257.40	1,169.5		71.97
13	350	169.57	734.6		73.27
14	368	87.16	358.9		74.73
15	388	149.82	585.1		76.34
16	410	167.76	619.5		77.90
17	432	81.61	286.0		79.16
18	453	88.73	296.5		80.36
19	472	65.74	211.1		81.42
20	488	96.02	298.3		82.32
21	507	75.56	225.9		83.33
22	548	118.34	327.1		85.19
23	584	100.23	260.0		86.80
24	626	45.04	109.0		88.36
25	651	75.26	175.0		89.16

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
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Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	781	26.65	51.7		91.78
27	876	38.38	66.4		93.04
28	1,082	17.43	24.4		95.20
29	1,191	40.86	52.0		95.90
30	1,685	2.85	2.6		99.12
31	10,380	75.00	10.9	Upper Marker	113.00

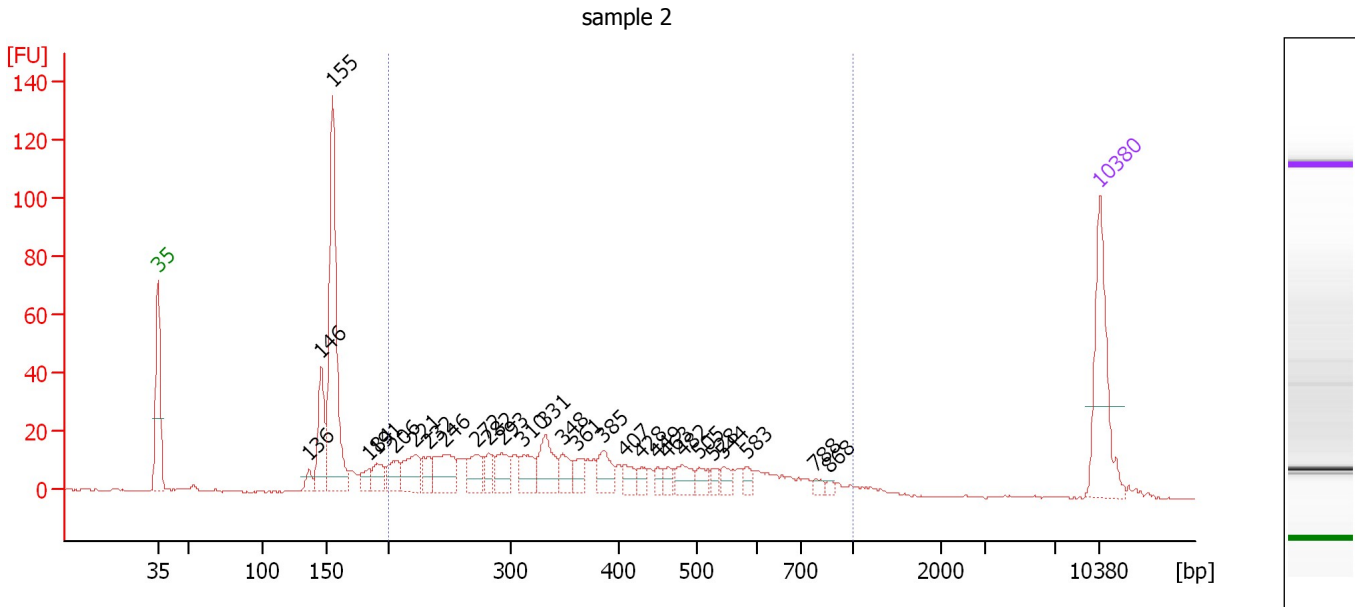
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	407	2,921.2	3,415.44	15,313.5	90	39.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 28 Corr. Area 1: 477.4
 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	136	10.89	121.0		54.24
3	146	66.81	693.5		55.14
4	155	234.27	2,288.1		56.00
5	184	12.10	99.7		58.66
6	191	22.93	182.1		59.31
7	206	24.09	177.5		60.66
8	221	37.23	255.3		62.07
9	232	16.74	109.3		63.07
10	246	47.32	291.1		64.38
11	272	29.23	162.7		66.73
12	282	17.30	93.1		67.59
13	293	28.02	145.2		68.59
14	310	26.88	131.3		70.10
15	331	41.66	190.4		71.80
16	348	20.30	88.5		73.11
17	361	15.73	66.1		74.16
18	385	25.23	99.2		76.12
19	407	12.74	47.4		77.72
20	428	8.86	31.3		78.93
21	449	8.06	27.2		80.13
22	463	8.82	28.9		80.89
23	482	16.91	53.2		81.99
24	505	11.68	35.1		83.24
25	528	7.39	21.2		84.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

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	544	10.82	30.1		85.00
27	583	8.28	21.5		86.76
28	788	5.67	10.9		91.87
29	868	3.96	6.9		92.93
30	10,380	75.00	10.9	Upper Marker	113.00

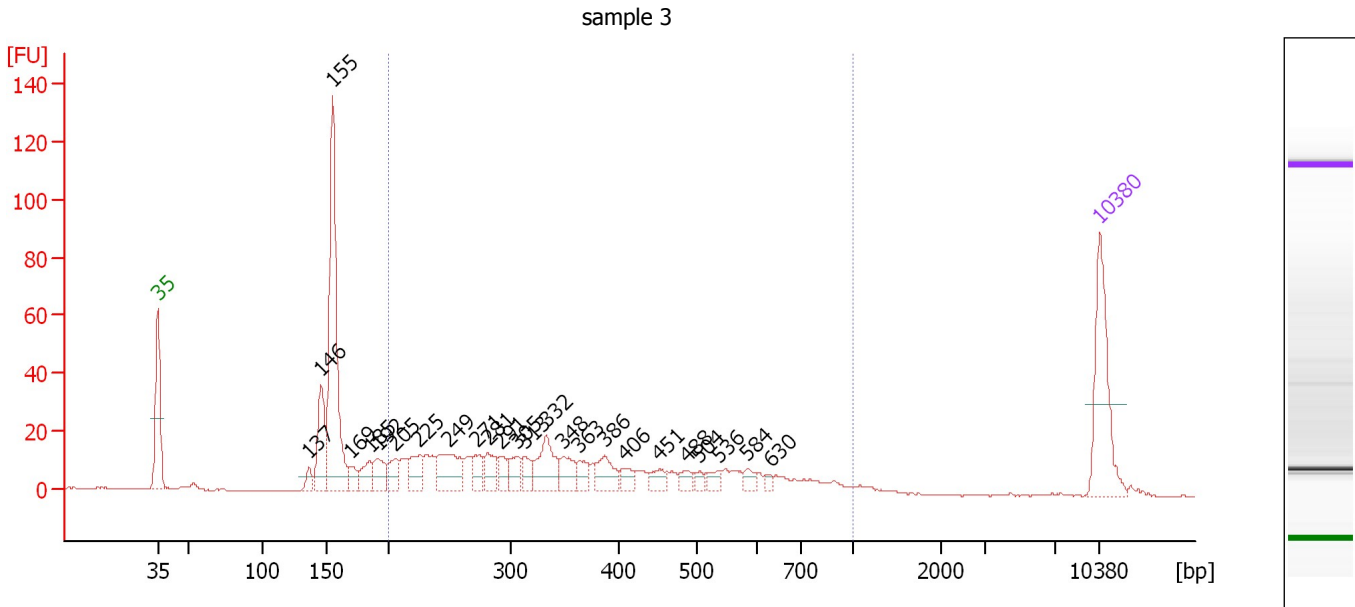
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	401	477.4	567.53	2,597.8	64	40.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 25 Corr. Area 1: 444.6
 Noise: 0.2

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	137	13.39	148.7		54.26
3	146	64.07	663.4		55.18
4	155	266.10	2,598.9		56.00
5	169	15.98	143.3		57.28
6	185	22.15	181.5		58.76
7	192	26.95	213.2		59.37
8	205	24.54	181.4		60.60
9	225	31.01	208.7		62.44
10	249	56.71	345.5		64.59
11	271	22.70	126.9		66.64
12	281	25.06	135.0		67.56
13	291	18.21	94.9		68.43
14	305	21.04	104.4		69.71
15	313	16.78	81.2		70.32
16	332	49.29	224.8		71.86
17	348	25.48	110.9		73.14
18	363	17.02	71.1		74.32
19	386	28.22	110.7		76.21
20	406	14.08	52.6		77.64
21	451	13.98	46.9		80.25
22	488	9.63	29.9		82.35
23	504	7.09	21.3		83.22
24	536	9.67	27.3		84.65
25	584	8.76	22.7		86.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad


Created: 2/2/2018 10:57:36 AM
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Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	630	4.55	10.9		88.49
27	10,380	75.00	10.9	Upper Marker	113.00

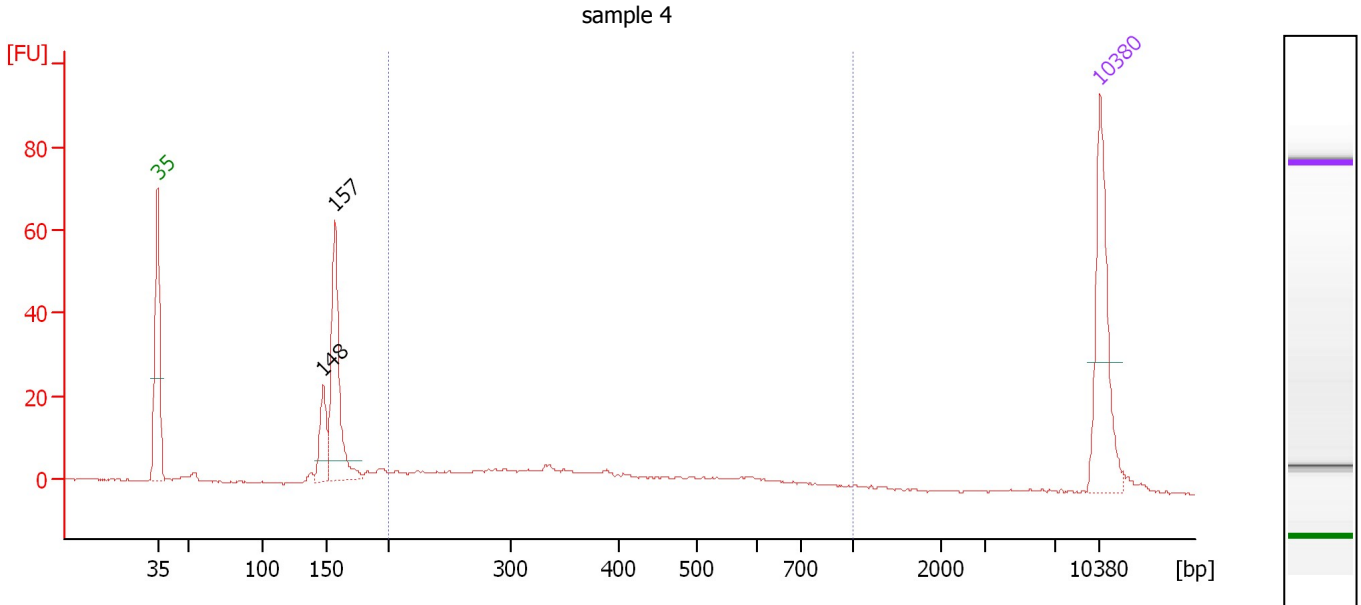
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ μ l]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	395	444.6	594.12	2,770.3	 61	41.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 2 Corr. Area 1: 125.0
 Noise: 0.3

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	148	40.00	410.9		55.29
3	157	126.39	1,218.9		56.18
4	10,380	75.00	10.9	Upper Marker	113.00

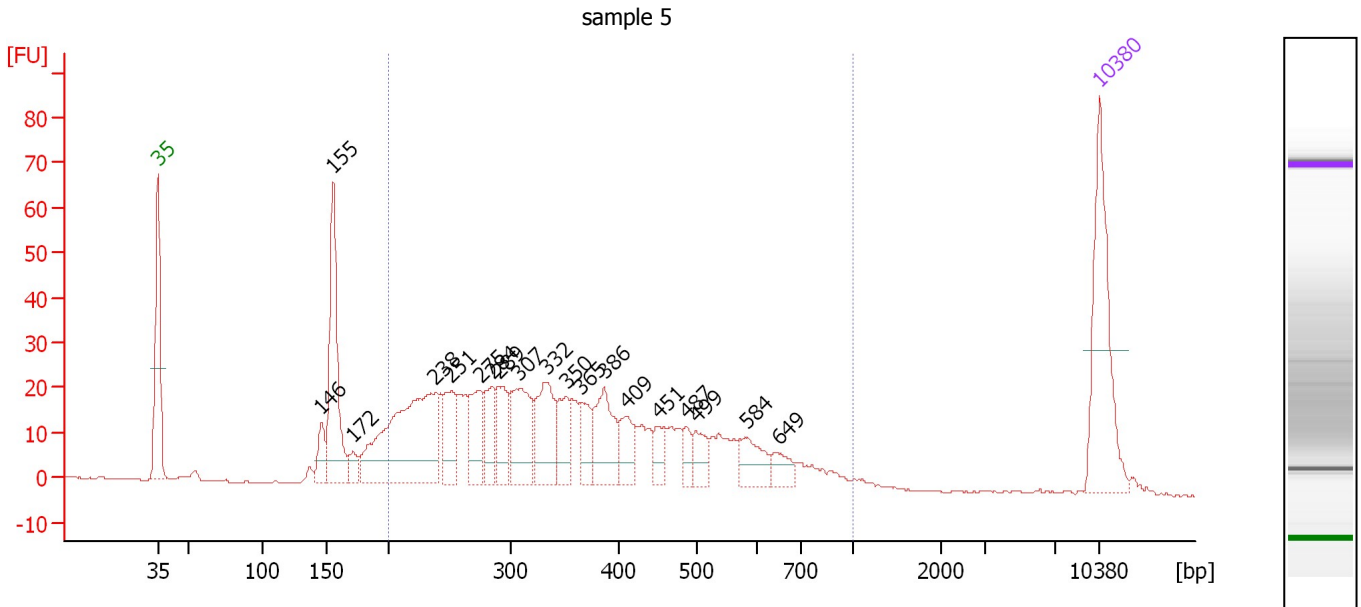
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	402	125.0	167.20	757.5	48	39.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 19 Corr. Area 1: 678.0
 Noise: 0.2

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	146	21.05	218.0		55.17
3	155	117.18	1,141.9		56.03
4	172	11.99	105.8		57.52
5	238	176.94	1,126.9		63.61
6	251	38.80	234.4		64.78
7	275	40.68	224.3		66.97
8	284	31.20	166.4		67.83
9	289	37.09	194.2		68.31
10	307	60.87	300.2		69.86
11	332	56.14	256.3		71.83
12	350	30.27	130.9		73.33
13	365	21.73	90.2		74.50
14	386	48.07	188.9		76.16
15	409	23.79	88.2		77.81
16	451	13.94	46.9		80.22
17	487	12.32	38.3		82.30
18	499	17.57	53.3		82.99
19	584	24.94	64.7		86.78
20	649	13.36	31.2		89.08
21	10,380	75.00	10.9	Upper Marker	113.00

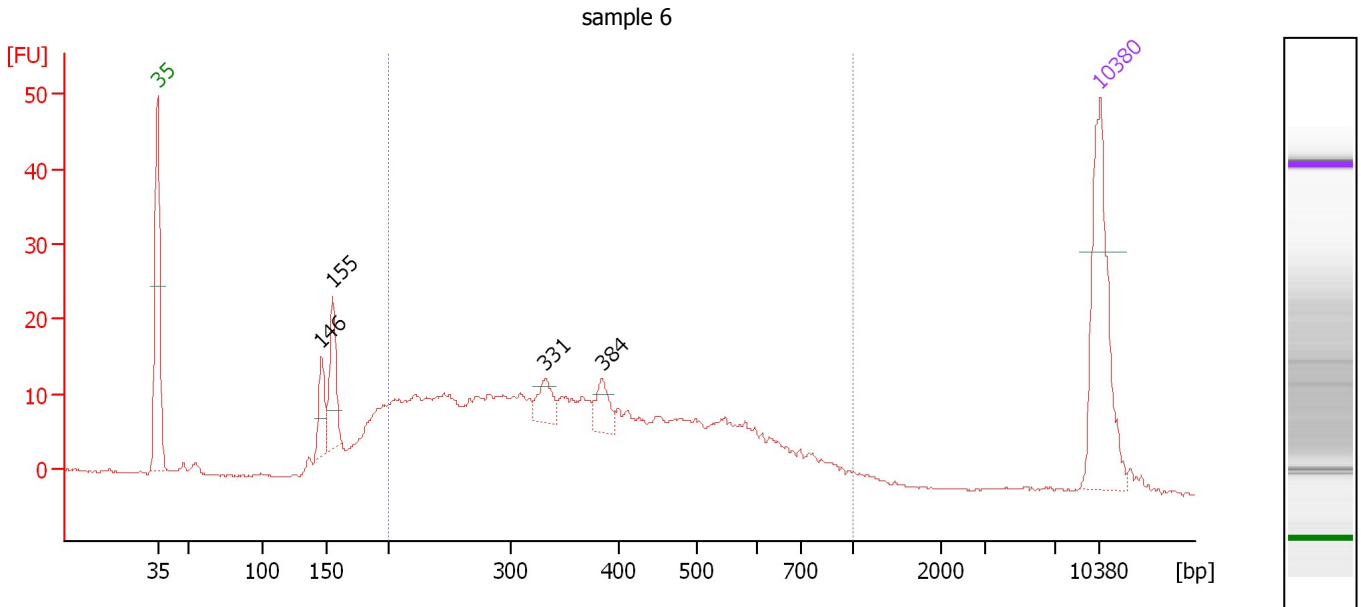
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	378	678.0	802.09	3,780.8	82	37.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 4 Corr. Area 1: 391.4
 Noise: 0.2

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	146	28.31	293.4		55.17
3	155	45.22	441.5		56.00
4	331	19.27	88.2		71.78
5	384	17.70	69.9		76.00
6	10,380	75.00	10.9	Upper Marker	113.00

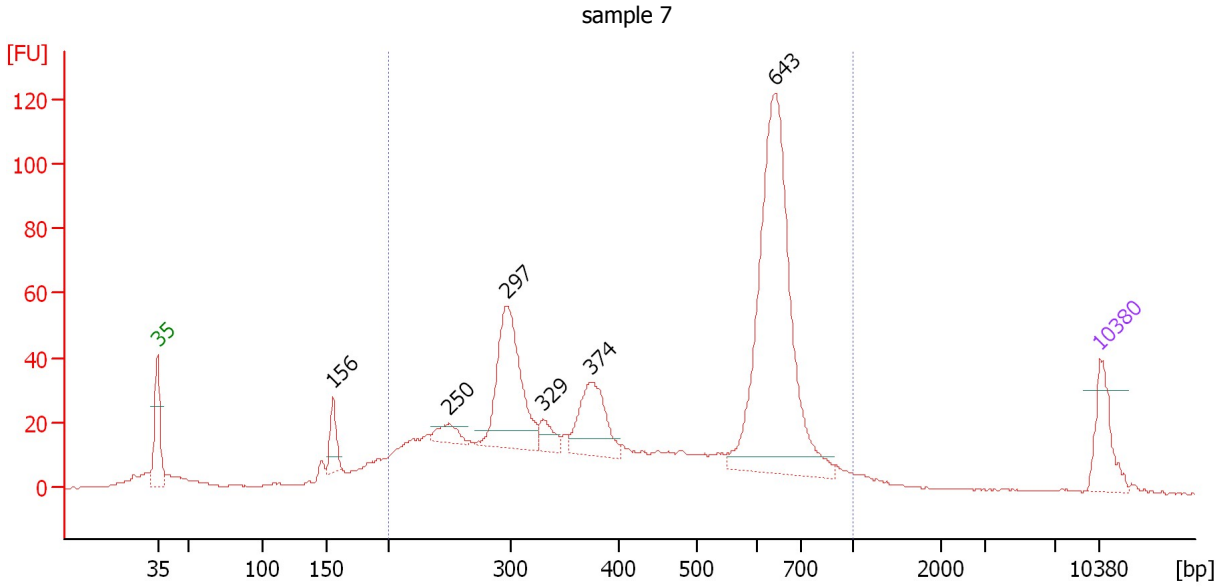
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	393	391.4	706.53	3,259.0	81	38.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

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 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 6 Corr. Area 1: 1,084.7
 Noise: 0.2

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	156	66.67	649.2		56.04
3	250	41.11	249.5		64.68
4	297	324.08	1,655.3		68.97
5	329	40.99	188.7		71.62
6	374	159.16	644.5		75.23
7	643	723.38	1,704.3		88.90
8	10,380	75.00	10.9	Upper Marker	113.00

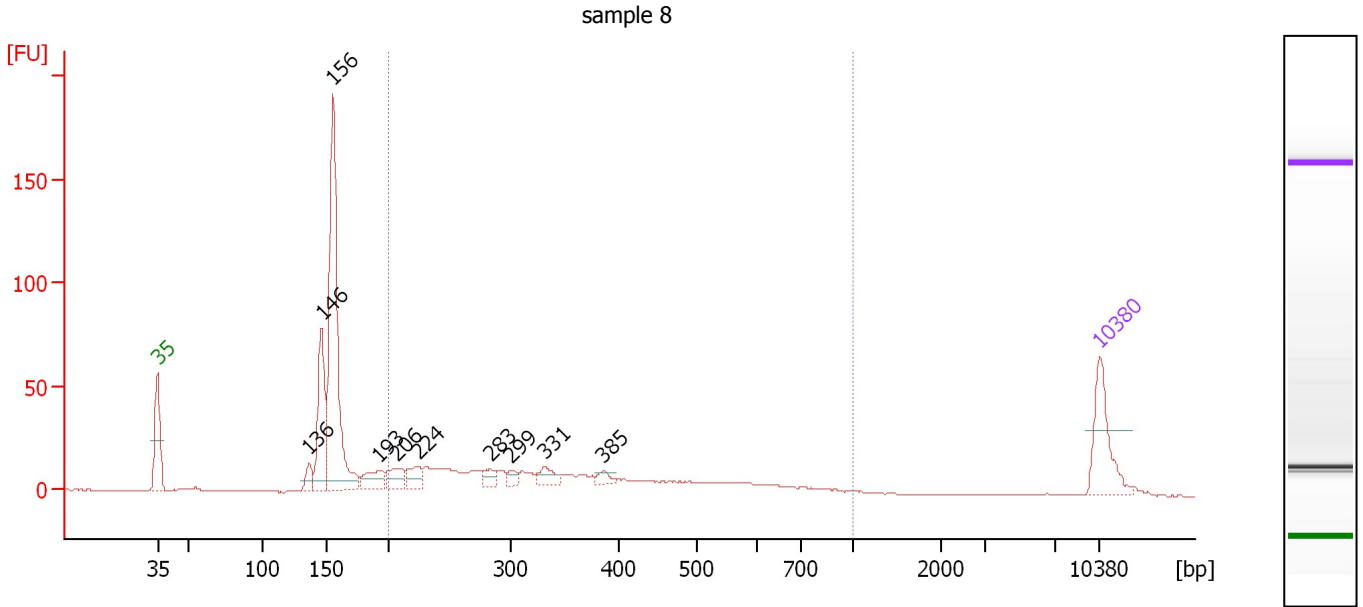
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	476	1,084.7	2,505.91	10,000.1	85	37.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 10 Corr. Area 1: 325.3
 Noise: 0.1

Peak table for sample 8 : sample 8

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	136	25.53	284.2		54.22
3	146	158.57	1,640.2		55.19
4	156	451.42	4,392.7		56.05
5	193	42.60	334.8		59.48
6	206	36.49	267.8		60.74
7	224	32.42	219.3		62.35
8	283	18.13	97.0		67.73
9	299	12.54	63.5		69.21
10	331	25.32	115.8		71.79
11	385	12.51	49.2		76.14
12	10,380	75.00	10.9	Upper Marker	113.00

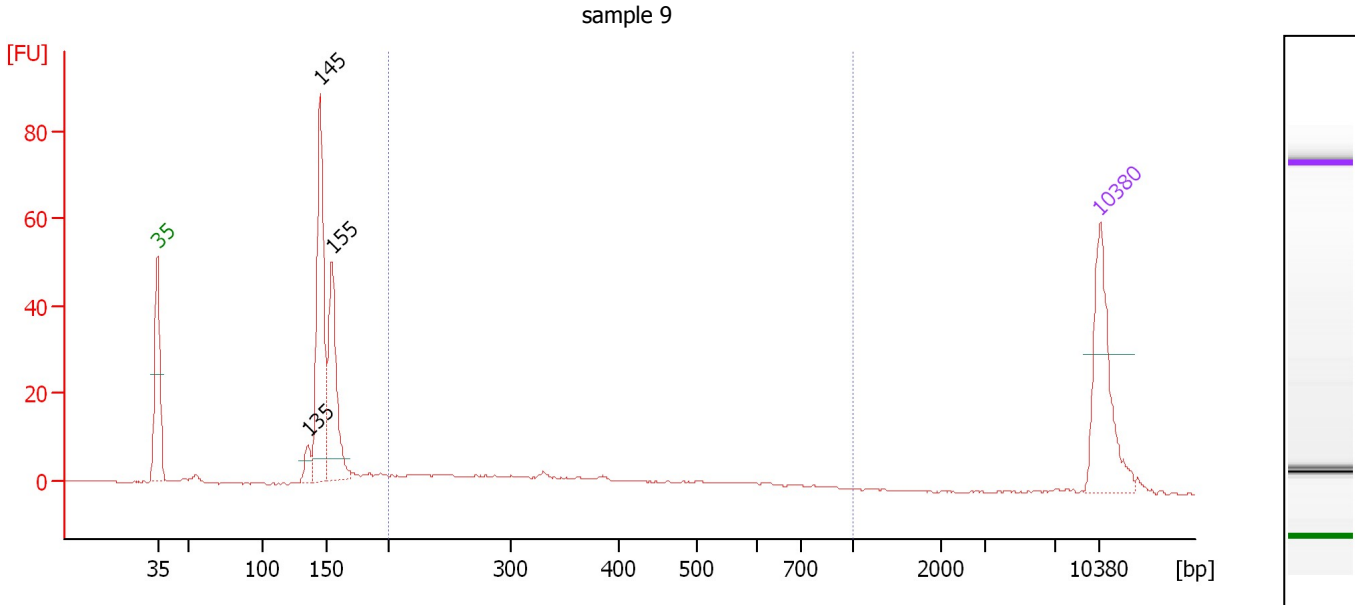
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	372	325.3	514.11	2,493.3	47	39.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 3 Corr. Area 1: 72.8
 Noise: 0.2

Peak table for sample 9 : sample 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	135	16.85	188.7		54.14
3	145	184.52	1,927.2		55.06
4	155	117.80	1,152.0		55.98
5	10,380	75.00	10.9	Upper Marker	113.00

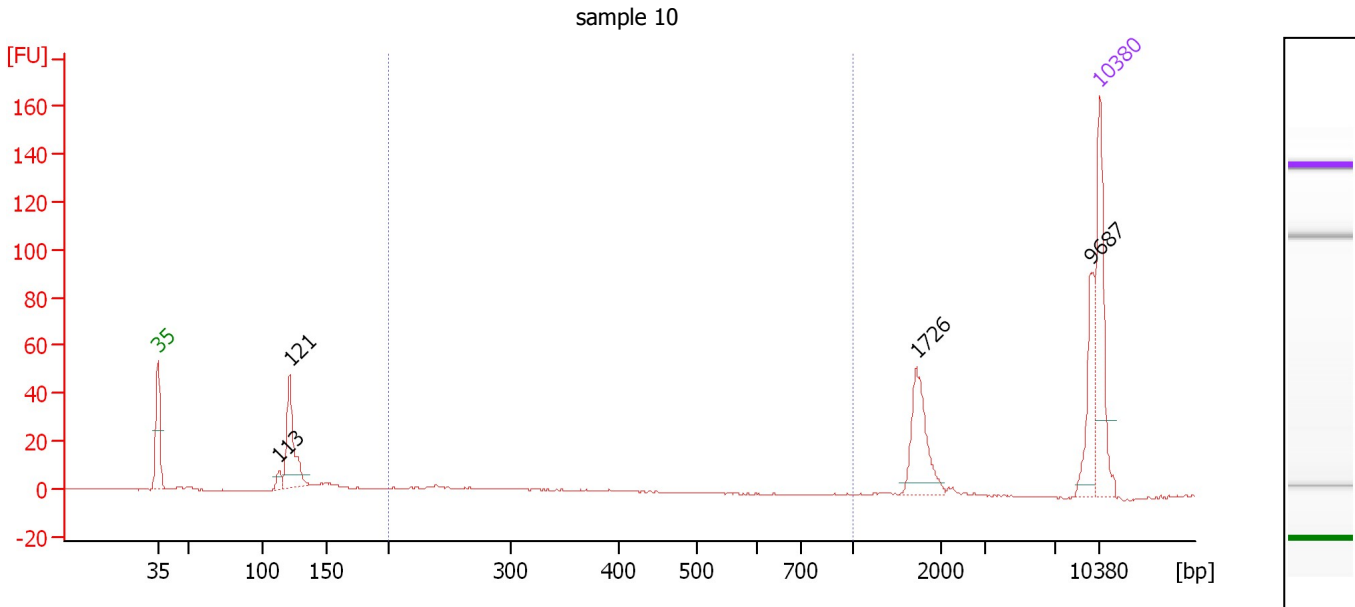
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	385	72.8	113.46	535.6	28	39.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 4 Corr. Area 1: 39.5
 Noise: 0.2

Peak table for sample 10 : sample 10

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	113	10.79	145.0		52.03
3	121	92.47	1,157.4		52.81
4	1,726	57.85	50.8		99.39
5	9,687	41.46	6.5		112.31
6	10,380	75.00	10.9	Upper Marker	113.00

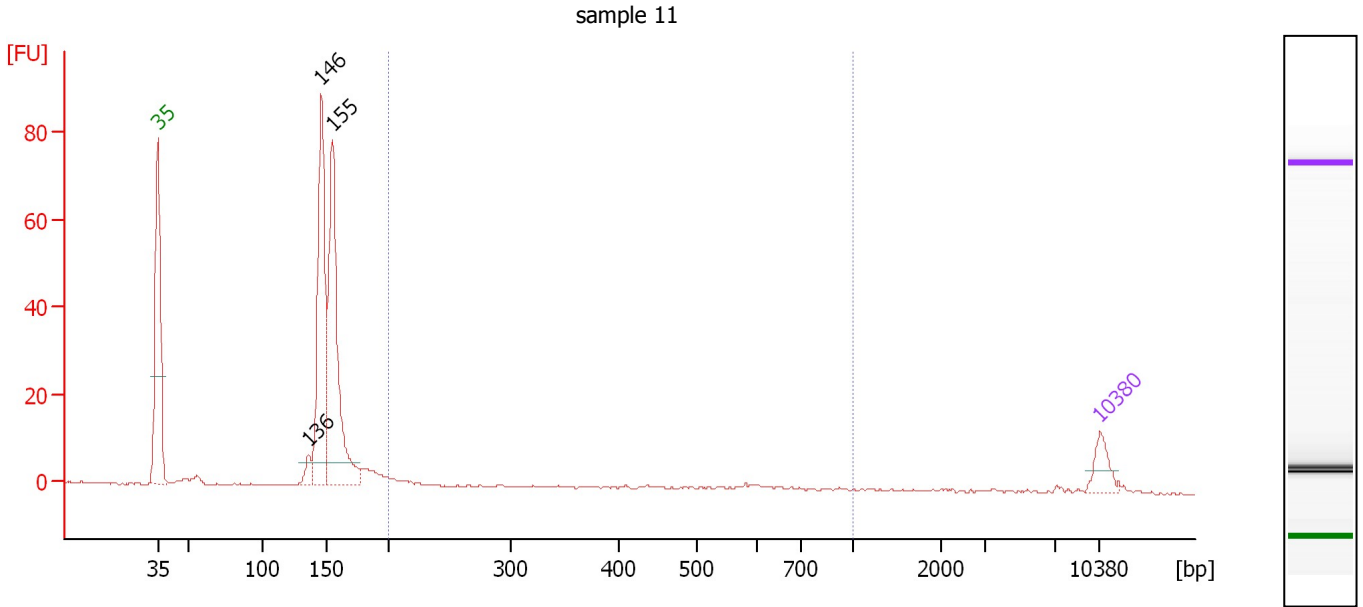
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	307	39.5	46.04	246.0	14	27.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
 Modified: 2/2/2018 11:38:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 3 Corr. Area 1: 14.5
 Noise: 0.2

Peak table for sample 11 : sample 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	136	65.40	727.2		54.23
3	146	947.79	9,828.8		55.16
4	155	1,024.76	10,032.2		55.96
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	444	14.5	112.79	533.1	6	45.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-02\2018-02-02_001.xad

Created: 2/2/2018 10:57:36 AM
Modified: 2/2/2018 11:38:53 AM

Gel Image

