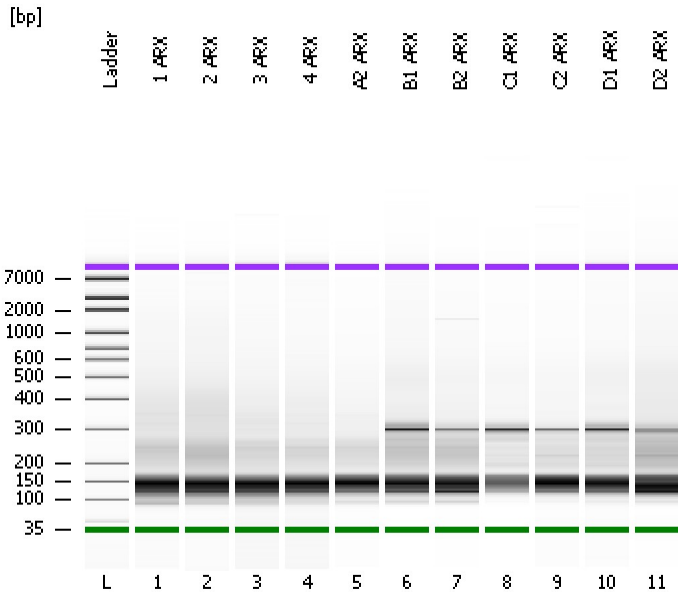


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
Modified: 4/10/2018 1:34:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

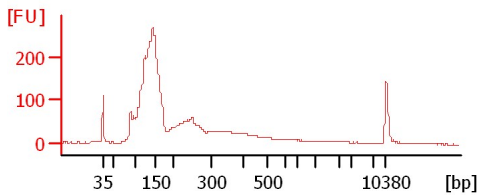
Assay Information:

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

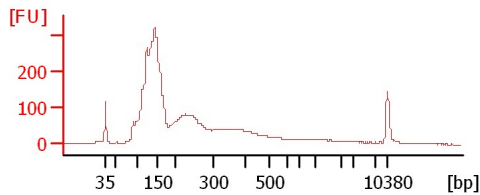
Chip Information:

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

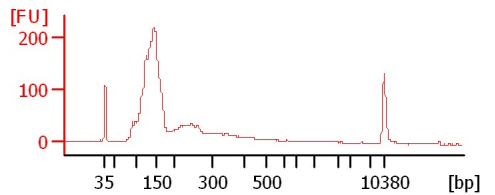
1 ARX



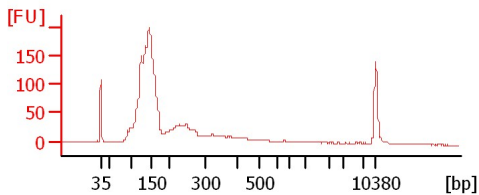
2 ARX



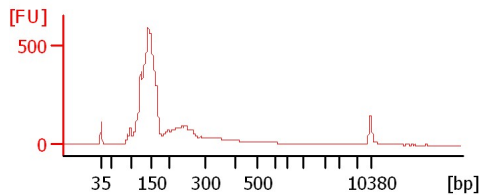
3 ARX



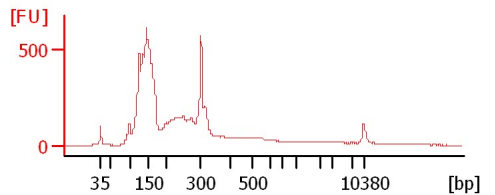
4 ARX



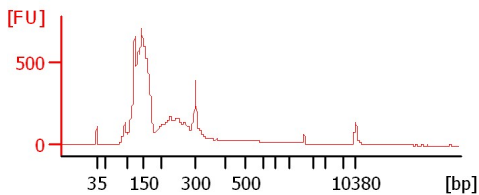
A2 ARX



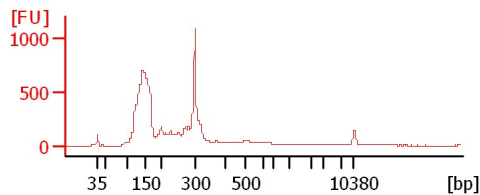
B1 ARX



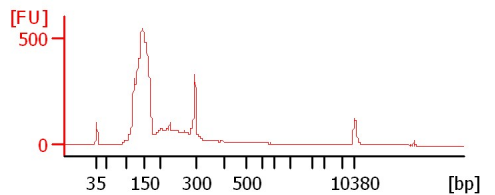
B2 ARX



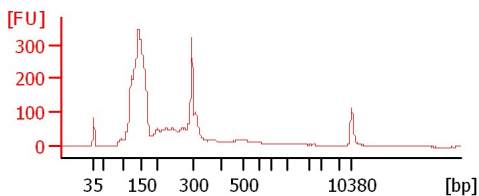
C1 ARX



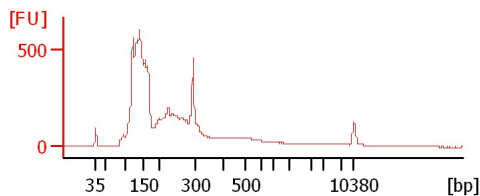
C2 ARX



D1 ARX



D2 ARX



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
Modified: 4/10/2018 1:34:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1 ARX		<input type="checkbox"/>	✓			
2 ARX		<input type="checkbox"/>	✓			
3 ARX		<input type="checkbox"/>	✓			
4 ARX		<input type="checkbox"/>	✓			
A2 ARX		<input type="checkbox"/>	✓			
B1 ARX		<input type="checkbox"/>	✓			
B2 ARX		<input type="checkbox"/>	✓			
C1 ARX		<input type="checkbox"/>	✓			
C2 ARX		<input type="checkbox"/>	✓			
D1 ARX		<input type="checkbox"/>	✓			
D2 ARX		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

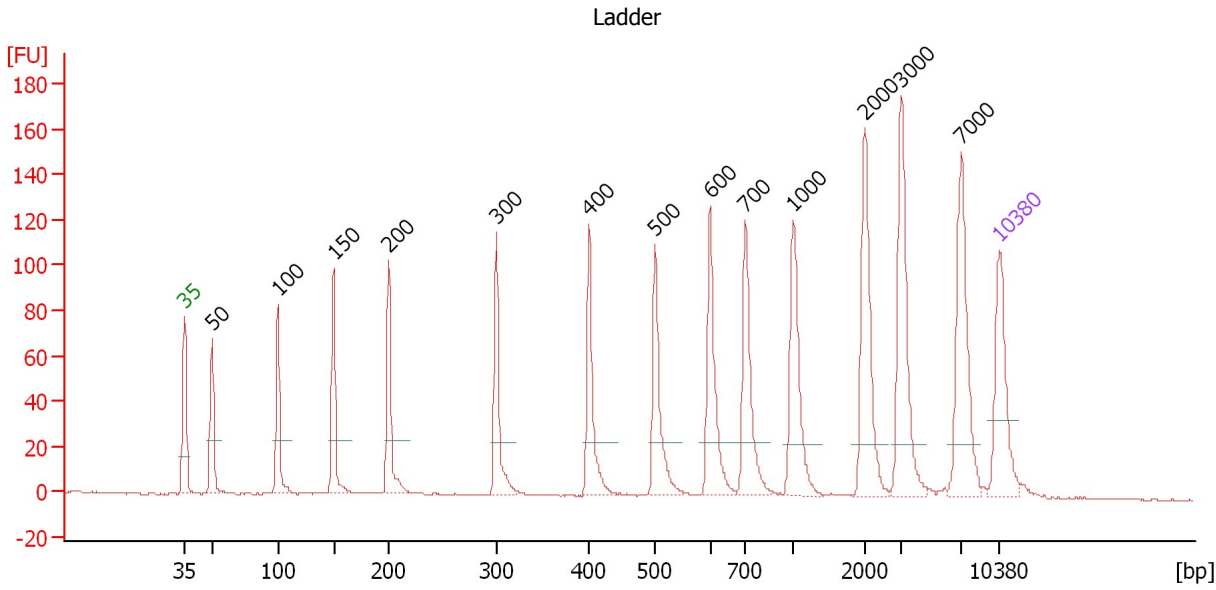
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

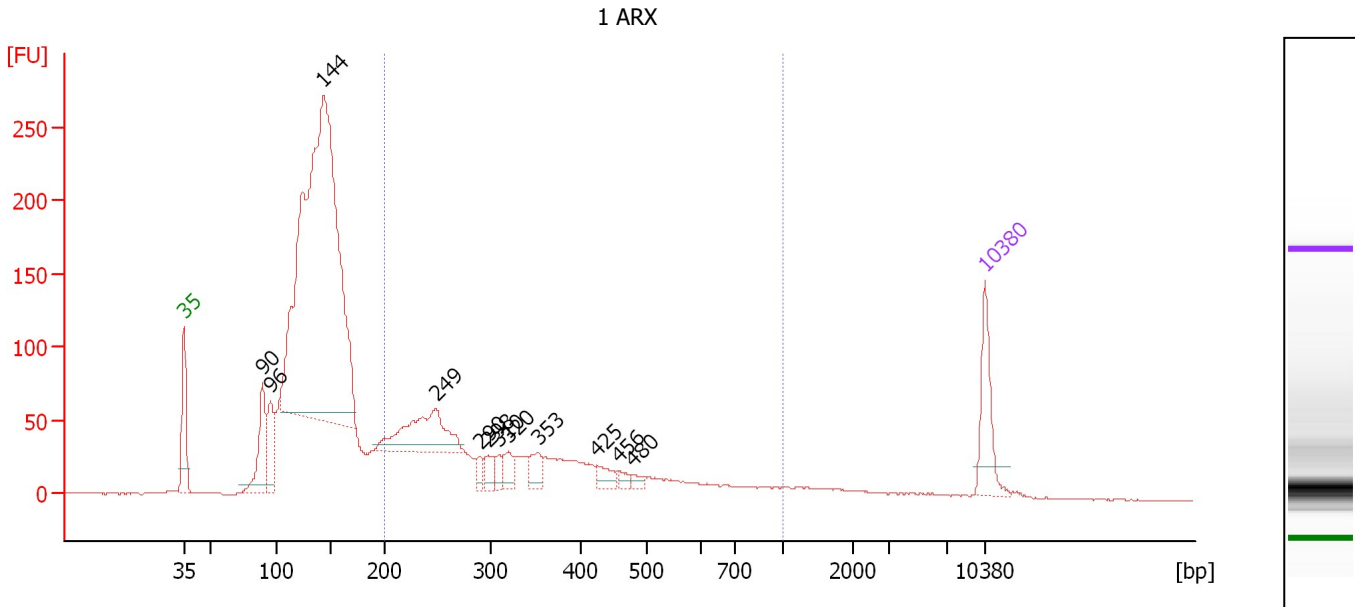
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.02
4	150	150.00	1,515.2	Ladder Peak	55.83
5	200	150.00	1,136.4	Ladder Peak	60.55
6	300	150.00	757.6	Ladder Peak	69.80
7	400	150.00	568.2	Ladder Peak	77.77
8	500	150.00	454.5	Ladder Peak	83.45
9	600	150.00	378.8	Ladder Peak	88.17
10	700	150.00	324.7	Ladder Peak	91.19
11	1,000	150.00	227.3	Ladder Peak	95.32
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.62
14	7,000	150.00	32.5	Ladder Peak	109.75
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1 ARX

Number of peaks found: 12 Corr. Area 1: 1,182.7
 Noise: 0.4

Peak table for sample 1 : 1 ARX

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	90	147.81	2,498.0		49.85
3	96	104.33	1,649.0		50.55
4	144	1,816.37	19,166.4		55.21
5	249	195.01	1,188.5		65.04
6	290	19.49	101.7		68.91
7	298	30.24	153.8		69.61
8	310	19.62	95.9		70.59
9	320	32.39	153.1		71.43
10	353	38.57	165.7		73.99
11	425	26.19	93.5		79.17
12	456	11.90	39.5		80.94
13	480	11.45	36.2		82.29
14	10,380	75.00	10.9	Upper Marker	113.00

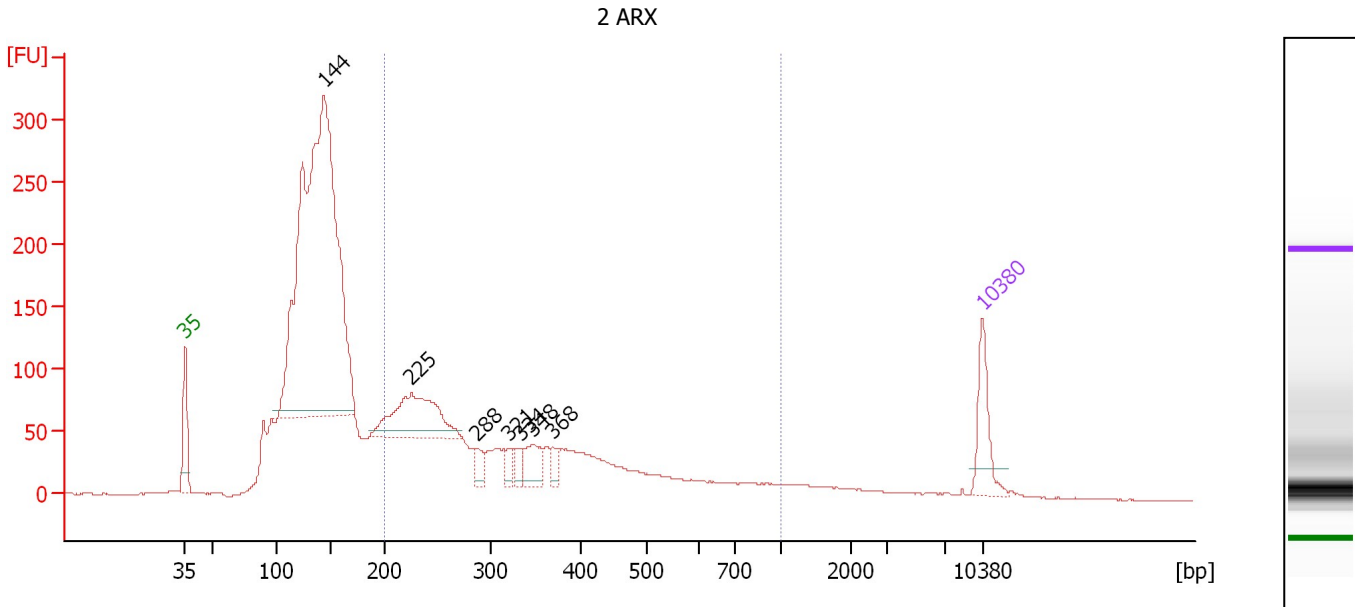
Region table for sample 1 : 1 ARX

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	352	1,114.22	1,182.7	5,709.4	30	42.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2 ARX

Number of peaks found: 7 Corr. Area 1: 1,724.6
 Noise: 0.3

Peak table for sample 2 : 2 ARX

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	144	1,953.10	20,606.0		55.21
3	225	257.96	1,738.8		62.84
4	288	32.41	170.5		68.69
5	321	26.74	126.4		71.45
6	334	24.21	109.9		72.48
7	348	63.07	274.8		73.60
8	368	27.09	111.5		75.24
9	10,380	75.00	10.9	Upper Marker	113.00

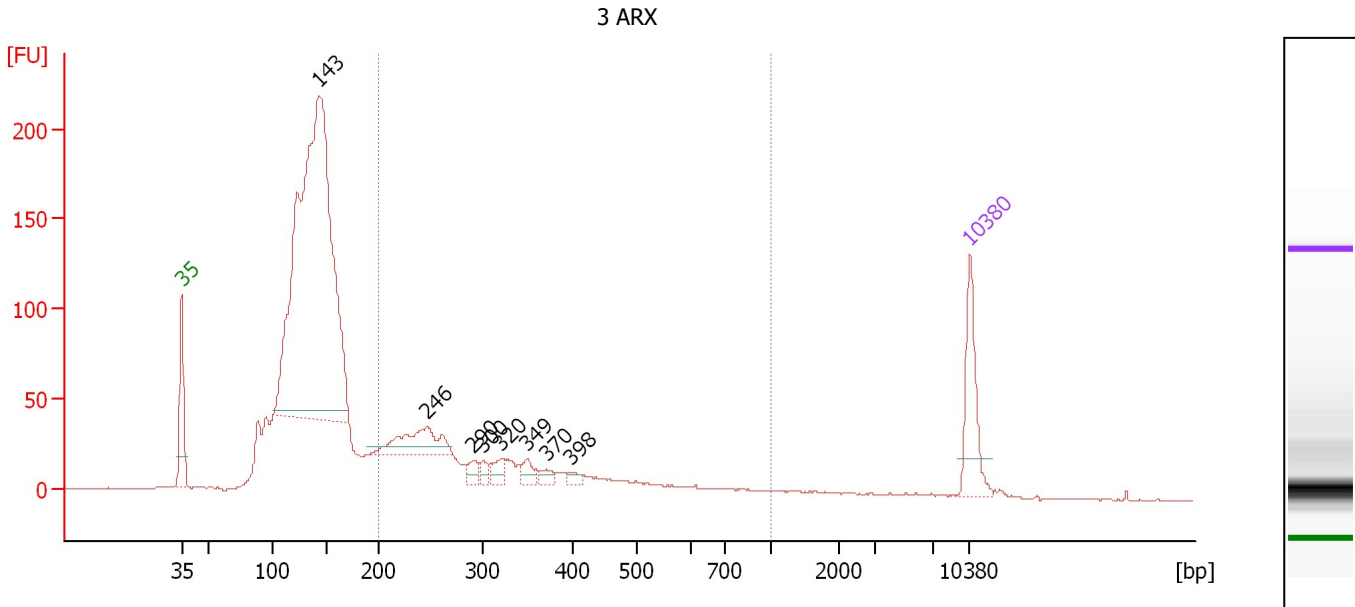
Region table for sample 2 : 2 ARX

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	353	1,516.95	1,724.6	7,801.8	35	42.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3 ARX

Number of peaks found: 8 Corr. Area 1: 685.7
 Noise: 0.3

Peak table for sample 3 : 3 ARX

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	143	1,442.14	15,312.7		55.12
3	246	102.99	633.5		64.83
4	290	20.60	107.5		68.91
5	300	13.36	67.6		69.76
6	320	21.61	102.2		71.42
7	349	20.53	89.2		73.69
8	370	12.58	51.6		75.35
9	398	9.40	35.8		77.62
10	10,380	75.00	10.9	Upper Marker	113.00

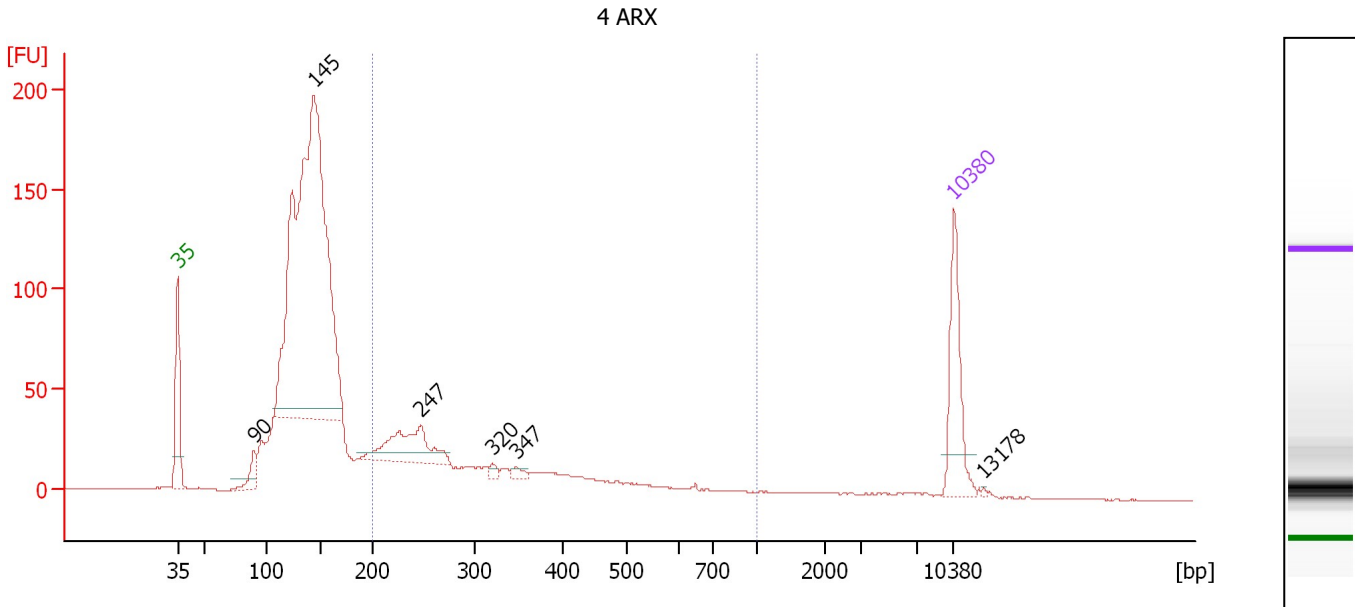
Region table for sample 3 : 3 ARX

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	337	655.67	685.7	3,452.1	25	41.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4 ARX

Number of peaks found: 6 Corr. Area 1: 558.1
 Noise: 0.3

Peak table for sample 4 : 4 ARX

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	90	32.31	544.7		49.88
3	145	1,088.74	11,408.0		55.31
4	247	107.90	661.1		64.92
5	320	8.09	38.4		71.37
6	347	7.61	33.2		73.53
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,178	0.00	0.0		115.69

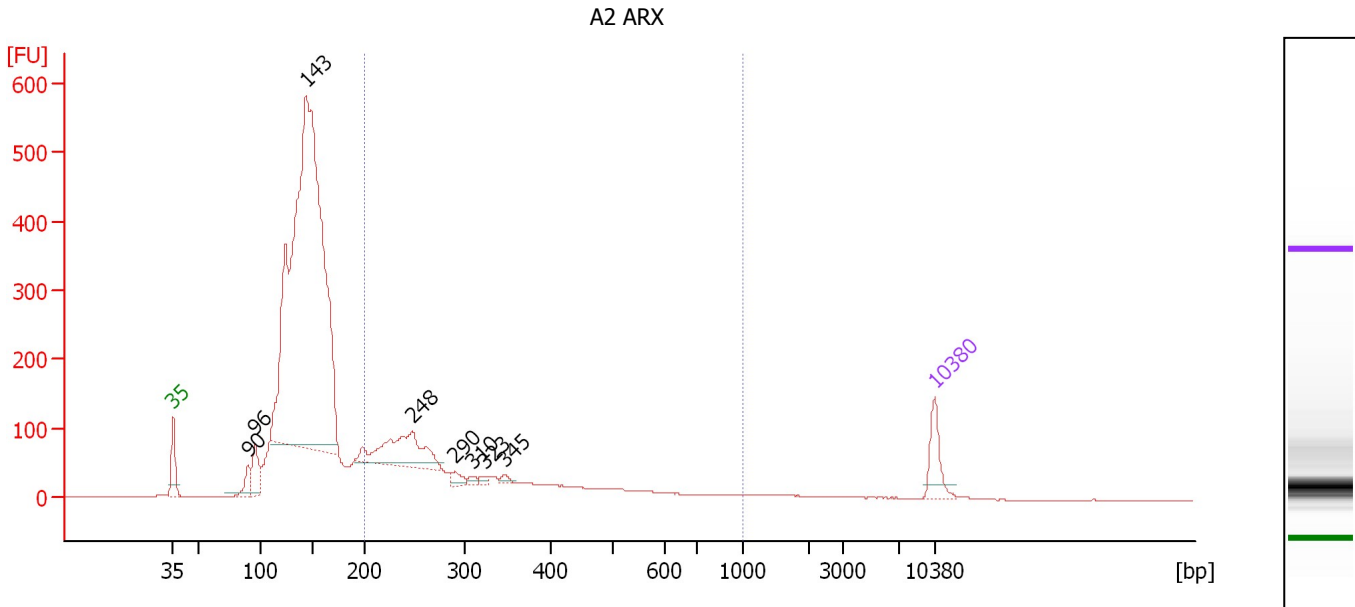
Region table for sample 4 : 4 ARX

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	333	481.90	558.1	2,560.7	25	40.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : A2 ARX

Number of peaks found: 8 Corr. Area 1: 1,522.3
 Noise: 0.2

Peak table for sample 5 : A2 ARX

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	90	69.59	1,169.7		49.91
3	96	123.18	1,948.2		50.54
4	143	3,565.03	37,653.9		55.20
5	248	319.52	1,955.7		64.95
6	290	28.22	147.5		68.86
7	310	15.55	76.0		70.58
8	323	11.97	56.2		71.61
9	345	13.75	60.3		73.42
10	10,380	75.00	10.9	Upper Marker	113.00

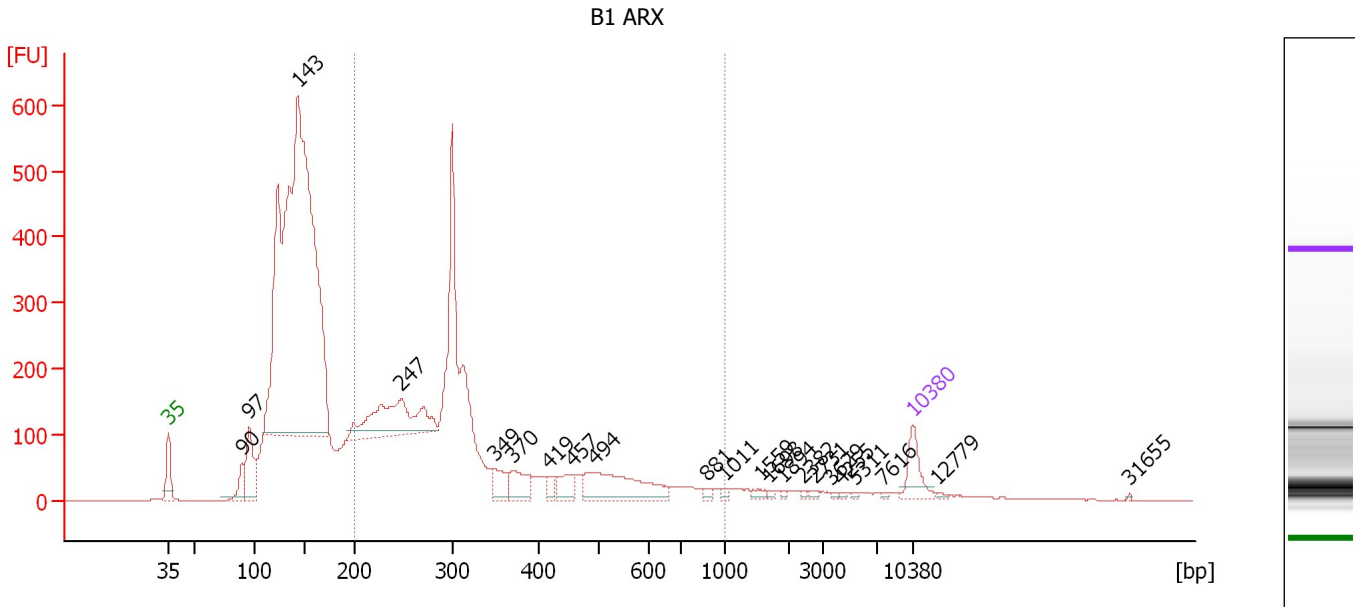
Region table for sample 5 : A2 ARX

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	324	1,371.58	1,522.3	7,460.5	24	41.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : B1 ARX

Number of peaks found: 22 Corr. Area 1: 3,800.6
 Noise: 0.3

Peak table for sample 6 : B1 ARX

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	90	79.38	1,331.8		49.92
3	97	209.13	3,282.1		50.63
4	143	3,678.06	38,858.5		55.19
5	247	413.34	2,531.8		64.93
6	349	73.81	320.4		73.71
7	370	98.71	404.4		75.37
8	419	26.57	96.0		78.88
9	457	60.78	201.3		81.04
10	494	252.97	776.4		83.09
11	881	11.76	20.2		93.68
12	1,011	8.68	13.0		95.39
13	1,559	14.35	13.9		98.75
14	1,698	5.78	5.2		99.60
15	1,894	5.48	4.4		100.81
16	2,382	4.90	3.1		102.66
17	2,731	8.01	4.4		103.77
18	3,629	4.78	2.0		105.42
19	4,255	3.90	1.4		106.23
20	5,311	3.66	1.0		107.58
21	7,616	3.63	0.7		110.34
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,779	0.00	0.0		115.31
24	31,655	0.00	0.0		133.47

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...

... Region table for sample 6 :

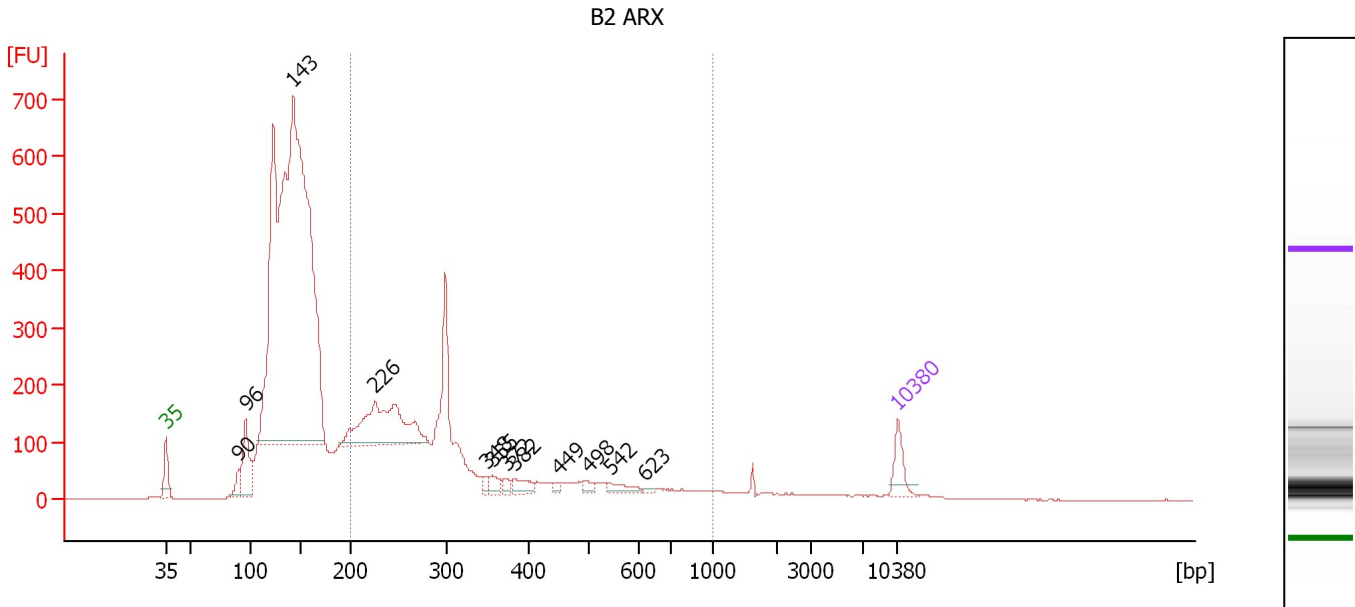
B1 ARX

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	338	3,430.97	3,800.6	17,674.0	 41	40.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : B2 ARX

Number of peaks found: 12 Corr. Area 1: 3,249.0
 Noise: 0.4

Peak table for sample 7 : B2 ARX

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	90	66.53	1,114.6		49.94
3	96	273.92	4,309.0		50.60
4	143	5,383.97	57,091.1		55.14
5	226	630.75	4,229.3		62.95
6	348	29.61	129.0		73.61
7	355	44.55	190.2		74.17
8	372	27.86	113.4		75.55
9	382	60.73	240.6		76.37
10	449	14.33	48.3		80.55
11	498	25.74	78.3		83.36
12	542	41.66	116.4		85.45
13	623	6.85	16.7		88.87
14	10,380	75.00	10.9	Upper Marker	113.00

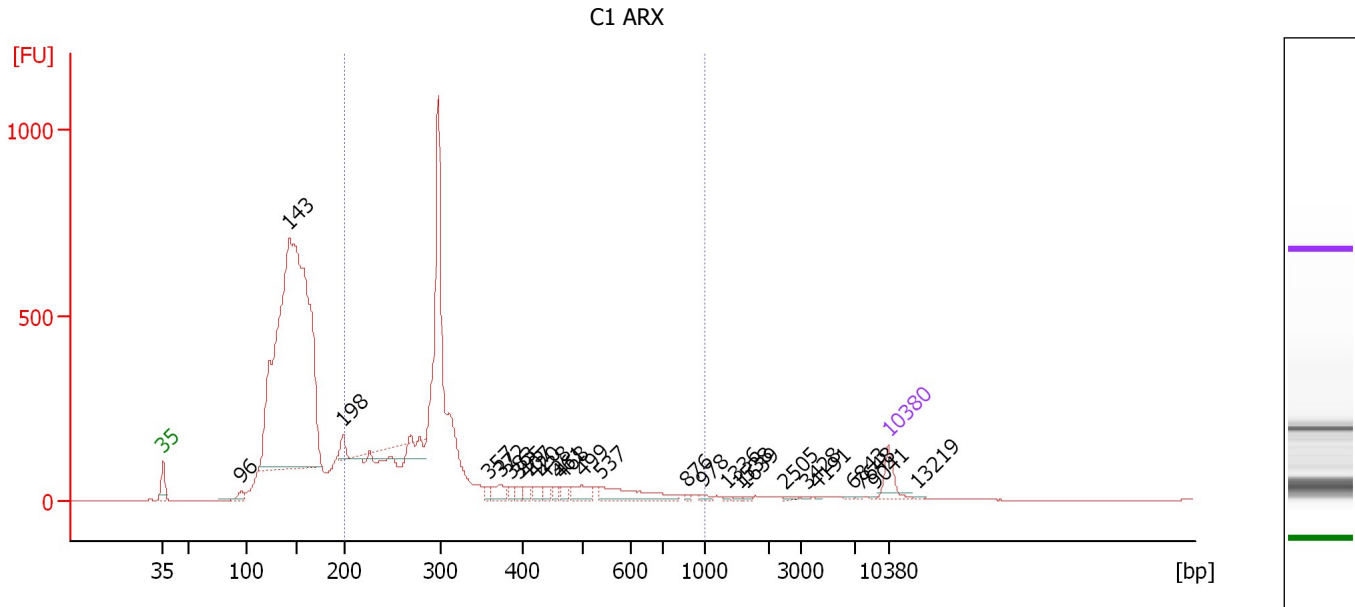
Region table for sample 7 : B2 ARX

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	329	3,405.14	3,249.0	18,145.1	34	42.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C1 ARX

Number of peaks found: 26 Corr. Area 1: 4,073.3
 Noise: 0.4

Peak table for sample 8 : C1 ARX

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	96	53.05	840.4		50.53
3	143	4,426.08	46,858.4		55.16
4	198	79.50	607.9		60.37
5	357	27.01	114.6		74.34
6	372	64.72	263.7		75.53
7	383	26.32	104.0		76.45
8	395	23.12	88.7		77.38
9	407	24.76	92.2		78.15
10	420	29.68	107.0		78.93
11	438	23.98	83.0		79.91
12	461	22.34	73.4		81.25
13	468	30.17	97.8		81.61
14	499	77.33	234.6		83.41
15	537	152.52	430.0		85.22
16	876	6.50	11.2		93.62
17	978	10.92	16.9		95.01
18	1,336	4.76	5.4		97.38
19	1,538	5.64	5.6		98.62
20	1,639	5.86	5.4		99.24
21	2,505	7.15	4.3		103.05
22	3,428	3.97	1.8		105.16
23	4,191	3.03	1.1		106.14
24	6,843	4.14	0.9		109.55
25	7,648	2.61	0.5		110.37

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : C1 ARX

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	9,041	2.44	0.4		111.71
27	10,380	75.00	10.9	Upper Marker	113.00
28	13,219	0.00	0.0		115.73

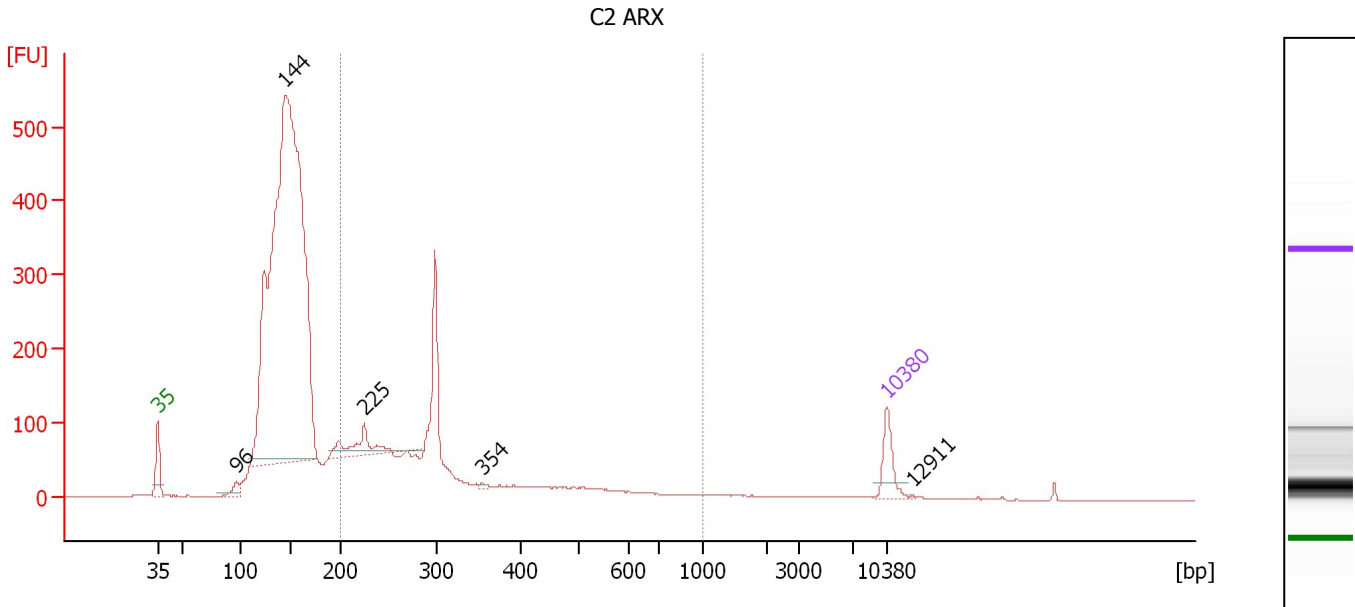
Region table for sample 8 : C1 ARX

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	327	3,501.46	4,073.3	17,960.5	41	36.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C2 ARX

Number of peaks found: 5 Corr. Area 1: 1,620.9
 Noise: 0.3

Peak table for sample 9 : C2 ARX

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	96	46.46	733.3		50.56
3	144	4,221.14	44,319.0		55.28
4	225	151.98	1,024.2		62.84
5	354	7.28	31.1		74.14
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,911	0.00	0.0		115.44

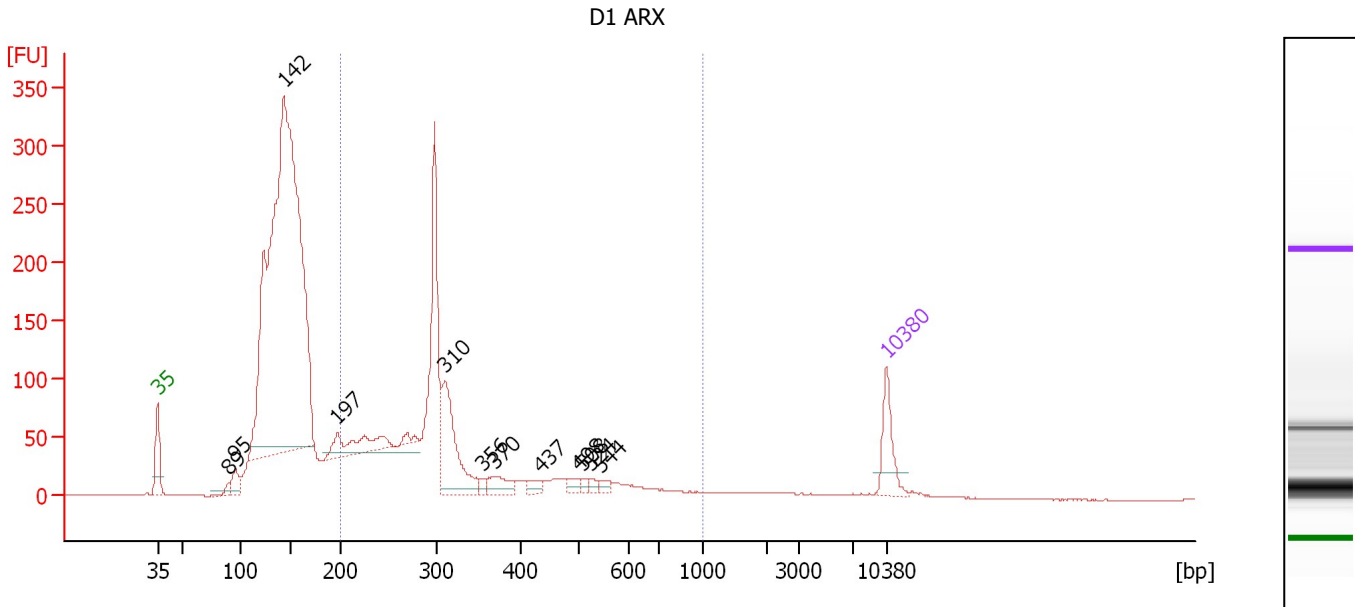
Region table for sample 9 : C2 ARX

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	318	1,735.95	1,620.9	9,275.6	28	38.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : D1 ARX

Number of peaks found: 12 Corr. Area 1: 1,525.1
 Noise: 0.3

Peak table for sample 10 : D1 ARX

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	89	17.72	300.2		49.83
3	95	54.94	876.2		50.45
4	142	2,670.52	28,422.4		55.09
5	197	163.18	1,255.7		60.25
6	310	255.78	1,251.4		70.57
7	356	13.29	56.5		74.27
8	370	47.99	196.6		75.37
9	437	23.66	82.1		79.85
10	498	21.25	64.7		83.34
11	508	11.26	33.6		83.81
12	524	10.93	31.6		84.59
13	544	14.30	39.8		85.53
14	10,380	75.00	10.9	Upper Marker	113.00

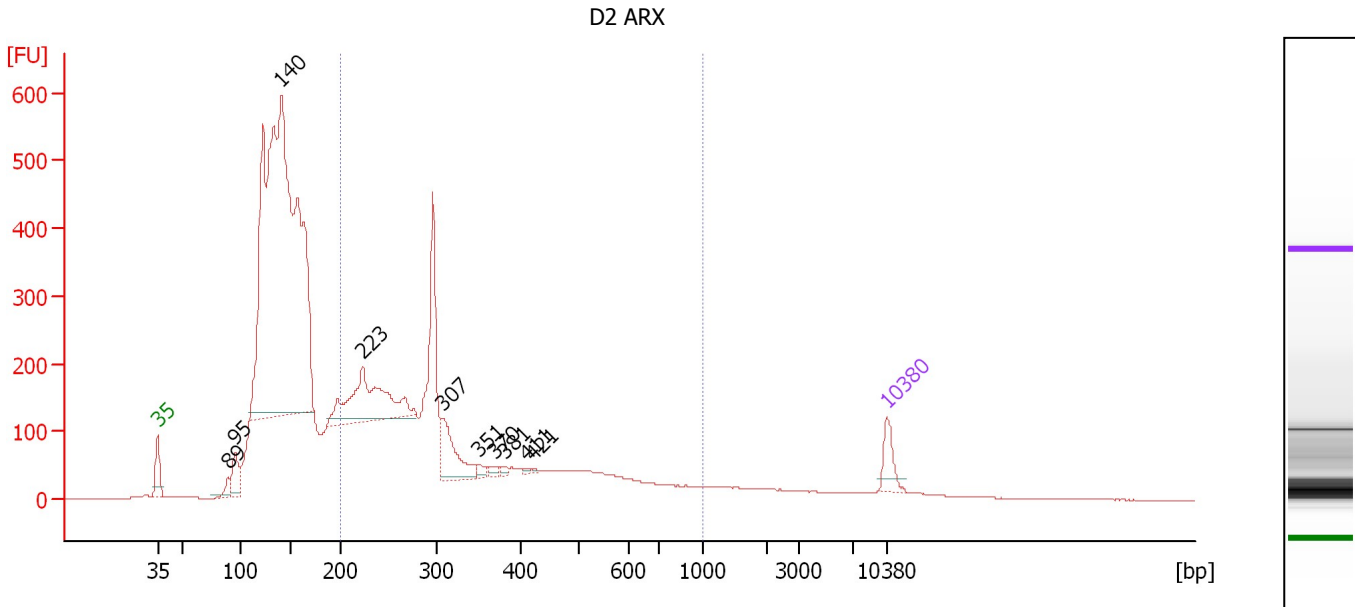
Region table for sample 10 : D1 ARX

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	334	1,738.56	1,525.1	8,880.6	36	37.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
 Modified: 4/10/2018 1:34:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : D2 ARX

Number of peaks found: 10 Corr. Area 1: 3,721.7
 Noise: 0.2

Peak table for sample 11 : D2 ARX

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	89	48.18	818.9		49.79
3	95	138.79	2,218.4		50.43
4	140	4,682.73	50,593.9		54.89
5	223	591.32	4,014.8		62.69
6	307	242.40	1,197.6		70.33
7	351	25.70	110.9		73.89
8	370	19.81	81.1		75.37
9	381	13.50	53.7		76.28
10	411	7.21	26.6		78.40
11	421	5.45	19.6		78.98
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : D2 ARX

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	339	4,342.41	3,721.7	22,667.4	39	42.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-06\2018-04-06_001.xad

Created: 4/6/2018 12:37:12 PM
Modified: 4/10/2018 1:34:07 PM

Gel Image

