

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
Modified: 3/10/2016 4:56:08 PM

**Electrophoresis File Run Summary**

Instrument Information:

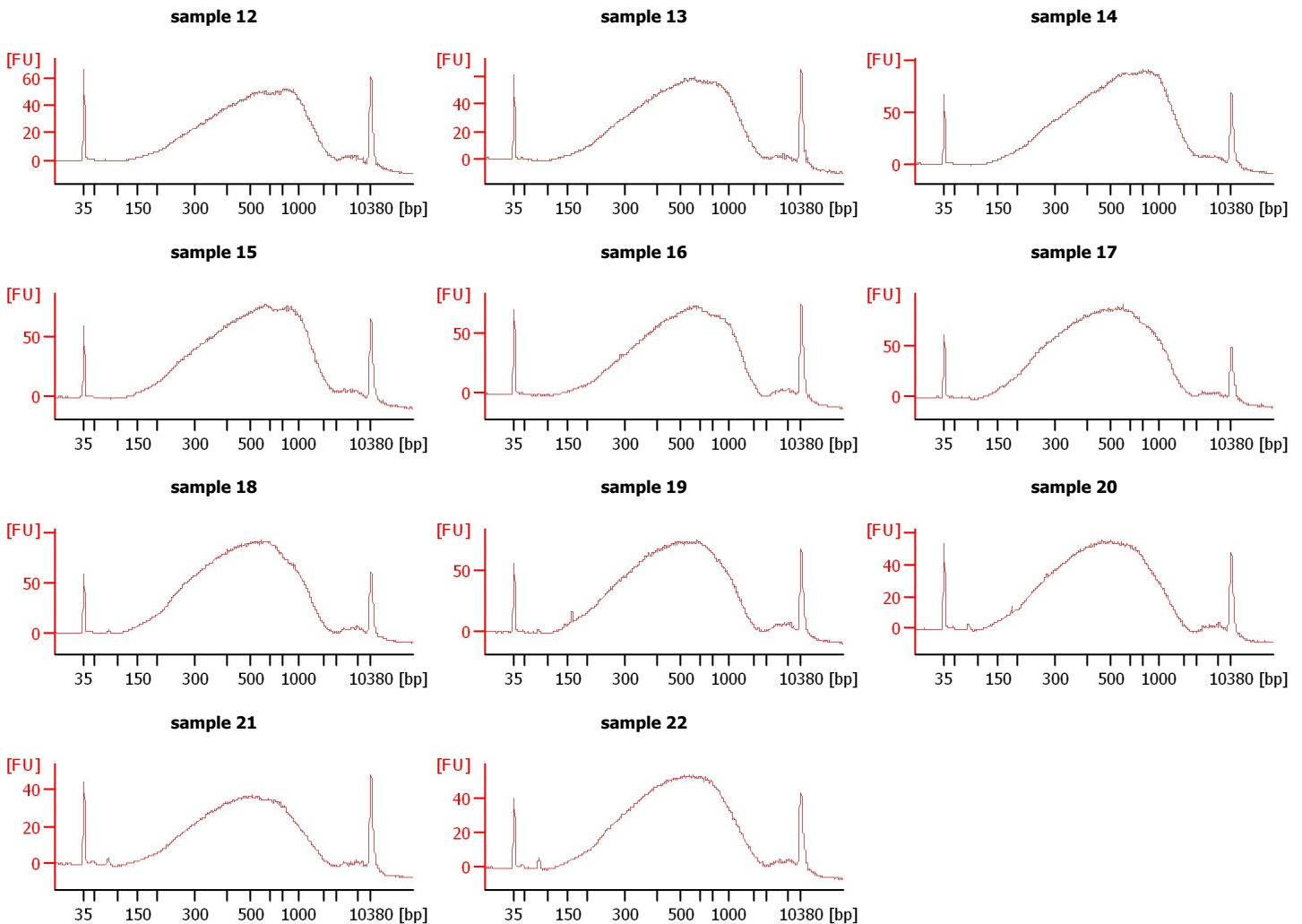
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 12		<input type="checkbox"/>	✓			
sample 13		<input type="checkbox"/>	✓			
sample 14		<input type="checkbox"/>	✓			
sample 15		<input type="checkbox"/>	✓			
sample 16		<input type="checkbox"/>	✓			
sample 17		<input type="checkbox"/>	✓			
sample 18		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<input type="checkbox"/>	✓			
sample 21		<input type="checkbox"/>	✓			
sample 22		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**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

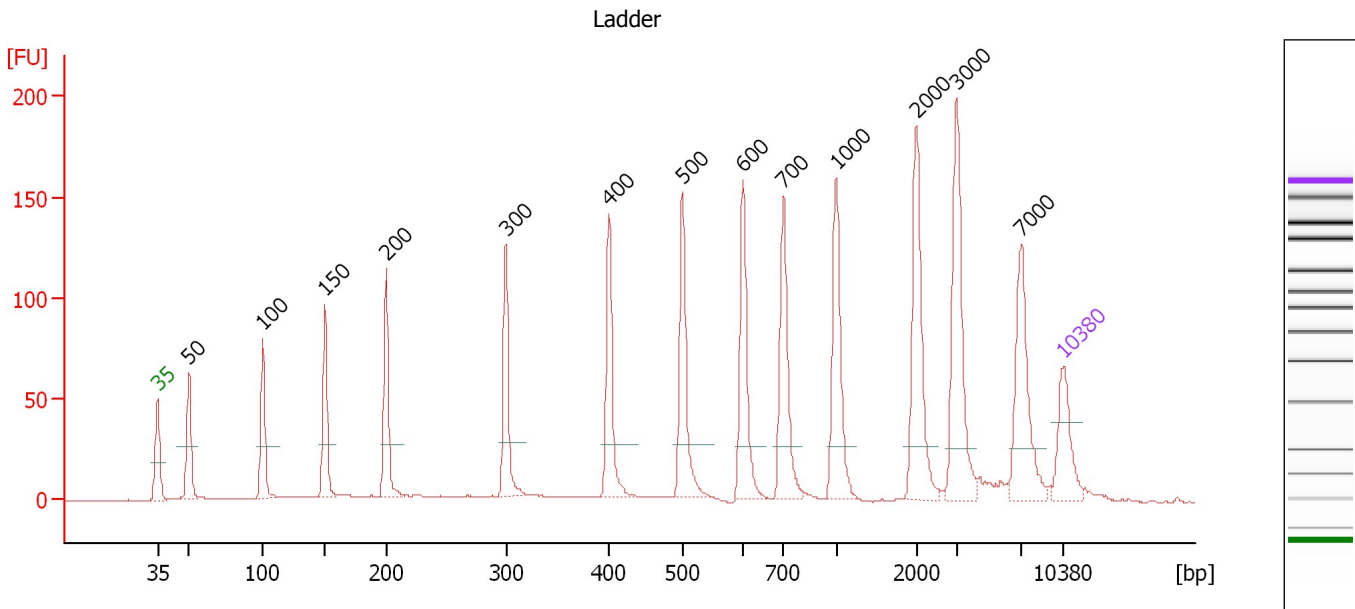
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

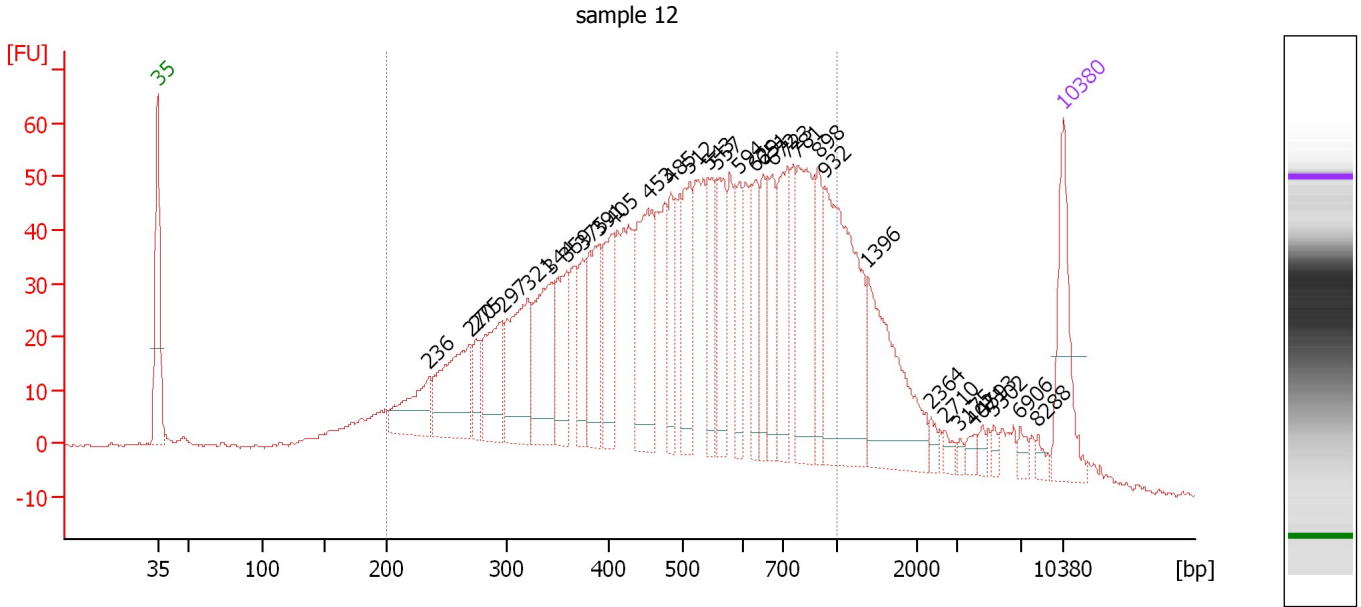
**Peak table for Ladder**

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	45.42
3	100	150.00	2,272.7	Ladder Peak	51.13
4	150	150.00	1,515.2	Ladder Peak	55.92
5	200	150.00	1,136.4	Ladder Peak	60.66
6	300	150.00	757.6	Ladder Peak	69.91
7	400	150.00	568.2	Ladder Peak	77.86
8	500	150.00	454.5	Ladder Peak	83.53
9	600	150.00	378.8	Ladder Peak	88.23
10	700	150.00	324.7	Ladder Peak	91.34
11	1,000	150.00	227.3	Ladder Peak	95.43
12	2,000	150.00	113.6	Ladder Peak	101.61
13	3,000	150.00	75.8	Ladder Peak	104.73
14	7,000	150.00	32.5	Ladder Peak	109.75
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 12**

Number of peaks found: 32                      Corr. Area 1: 1,711.9  
 Noise: 0.3

**Peak table for sample 1 : sample 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	236	77.41	497.3		63.98
3	270	129.33	726.4		67.11
4	275	35.03	193.1		67.58
5	297	93.82	478.5		69.64
6	321	131.29	619.1		71.61
7	344	121.54	535.7		73.39
8	359	84.33	355.8		74.61
9	375	51.99	210.1		75.87
10	391	91.86	356.1		77.13
11	405	79.30	297.0		78.12
12	453	149.17	498.7		80.88
13	485	58.68	183.5		82.66
14	512	91.40	270.3		84.11
15	543	63.89	178.2		85.56
16	557	75.62	205.6		86.22
17	594	54.35	138.6		87.95
18	629	58.85	141.8		89.12
19	651	55.60	129.4		89.82
20	672	64.46	145.3		90.48
21	723	95.19	199.6		91.65
22	781	127.60	247.5		92.44
23	898	54.69	92.3		94.04
24	932	224.48	364.9		94.51
25	1,396	138.39	150.2		97.88

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**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : sample 12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,364	8.05	5.2		102.75
27	2,710	7.77	4.3		103.82
28	3,175	4.42	2.1		104.95
29	4,071	8.19	3.0		106.07
30	4,593	6.56	2.2		106.73
31	5,302	6.18	1.8		107.62
32	6,906	8.49	1.9		109.63
33	8,288	7.00	1.3		110.99
34	10,380	75.00	10.9	Upper Marker	113.00

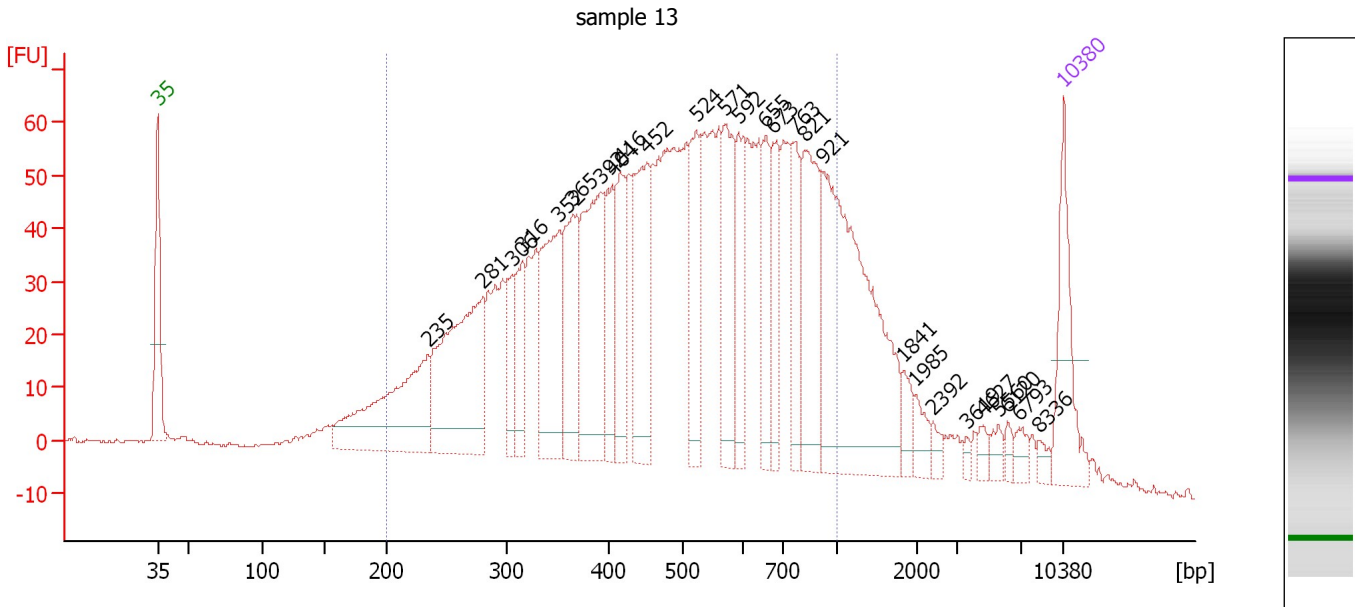
**Region table for sample 1 : sample 12**

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	518	1,711.9	10,233.0	2,842.83	81	37.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 13**

Number of peaks found: 27                      Corr. Area 1: 2,037.0  
 Noise: 0.3

**Peak table for sample 2 : sample 13**

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	235	228.31	1,472.2		63.90
3	281	269.05	1,453.0		68.11
4	306	51.37	254.1		70.41
5	316	69.05	330.8		71.21
6	352	164.05	706.8		74.02
7	365	123.36	511.8		75.10
8	392	190.08	735.2		77.20
9	404	86.29	323.5		78.09
10	416	84.64	308.5		78.75
11	452	140.14	469.7		80.81
12	524	98.97	286.2		84.65
13	571	109.14	289.7		86.86
14	592	75.66	193.7		87.84
15	655	69.98	161.8		89.95
16	673	69.55	156.5		90.51
17	763	66.83	132.7		92.20
18	821	137.24	253.2		92.99
19	921	344.30	566.5		94.35
20	1,841	18.93	15.6		100.63
21	1,985	18.42	14.1		101.52
22	2,392	9.12	5.8		102.83
23	3,619	5.05	2.1		105.50
24	4,627	9.32	3.1		106.77
25	5,560	11.02	3.0		107.94

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : sample 13

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,120	7.86	1.9		108.64
27	6,793	11.97	2.7		109.49
28	8,336	8.13	1.5		111.03
29	10,380	75.00	10.9	Upper Marker	113.00

#### Region table for sample 2 : sample 13

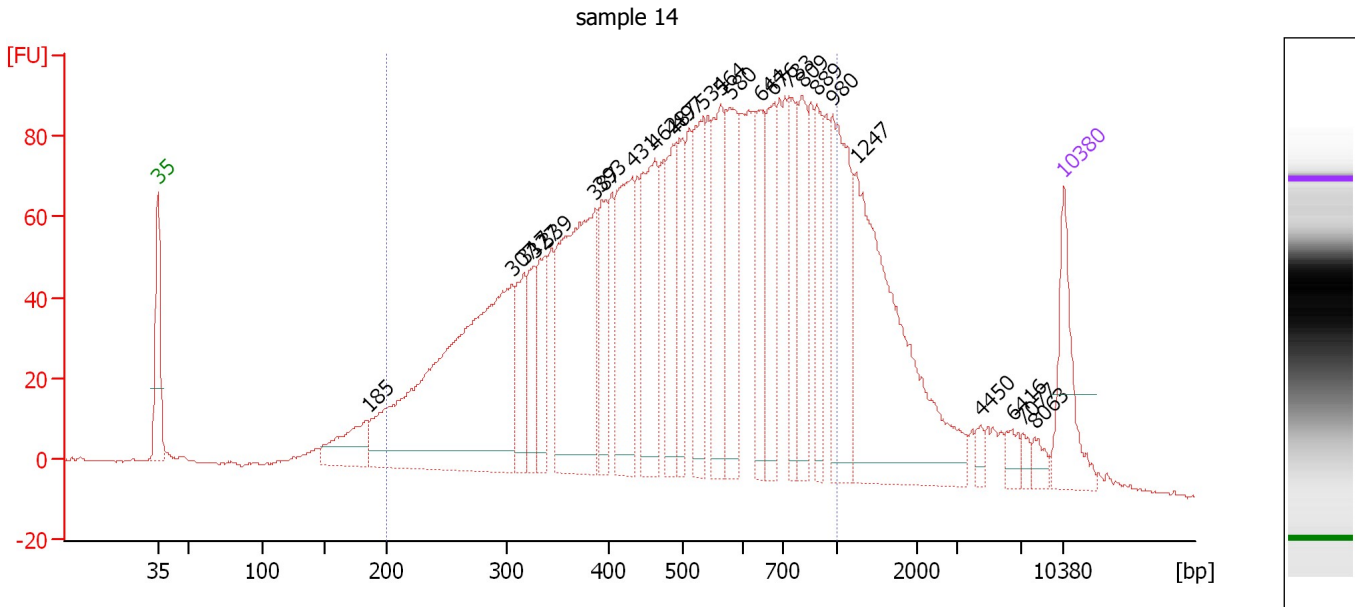
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	506	2,037.0	11,620.8	3,161.34	83	37.2



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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 14**

Number of peaks found: 25      Corr. Area 1: 2,822.1  
 Noise: 0.3

**Peak table for sample 3 : sample 14**

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	185	84.81	695.0		59.23
3	307	661.79	3,271.3		70.43
4	317	87.15	416.2		71.28
5	327	70.88	328.0		72.09
6	339	81.96	366.6		72.99
7	387	348.30	1,363.2		76.84
8	393	92.68	357.2		77.31
9	431	185.09	650.2		79.64
10	462	179.78	589.2		81.39
11	487	113.98	354.3		82.82
12	497	86.59	264.2		83.34
13	534	123.05	348.9		85.14
14	564	127.64	343.1		86.52
15	580	137.97	360.5		87.28
16	644	93.58	220.1		89.60
17	676	106.88	239.5		90.60
18	733	83.42	172.5		91.79
19	809	102.19	191.3		92.83
20	889	74.23	126.5		93.92
21	980	172.00	266.0		95.16
22	1,247	356.43	433.0		96.96
23	4,450	9.49	3.2		106.55
24	6,416	15.28	3.6		109.01
25	7,077	9.26	2.0		109.82

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : sample 14

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	8,063	12.94	2.4		110.77
27	10,380	75.00	10.9	Upper Marker	113.00

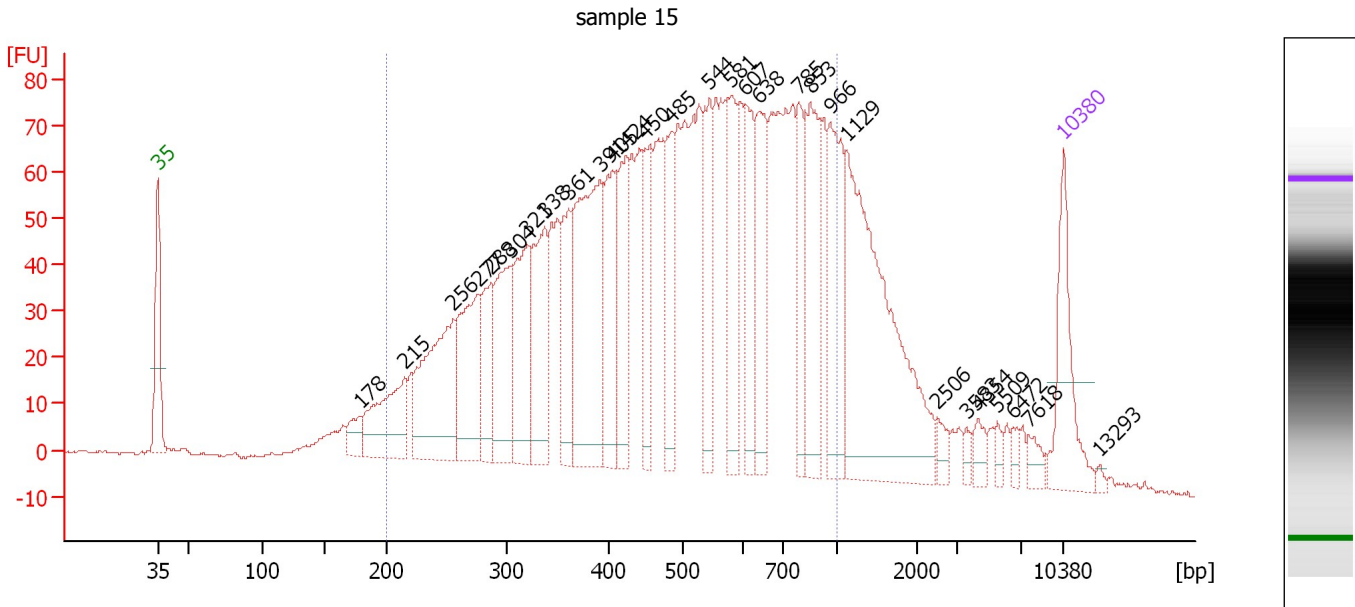
#### Region table for sample 3 : sample 14

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	519	2,822.1	13,237.0	3,672.00	80	37.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 15**

Number of peaks found: 29                      Corr. Area 1: 2,545.3  
 Noise: 0.3

**Peak table for sample 4 : sample 15**

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	178	28.02	237.9		58.61
3	215	118.65	834.2		62.10
4	256	198.18	1,174.2		65.82
5	277	138.92	760.9		67.75
6	288	77.94	410.6		68.77
7	304	129.72	646.9		70.22
8	321	132.31	624.8		71.57
9	338	127.70	572.6		72.92
10	361	89.63	376.2		74.76
11	391	257.87	998.2		77.18
12	405	106.13	397.0		78.15
13	424	98.38	351.7		79.21
14	450	73.11	246.0		80.71
15	485	97.26	303.8		82.69
16	544	98.32	273.9		85.59
17	581	95.32	248.6		87.33
18	607	90.22	225.2		88.44
19	638	105.35	250.2		89.41
20	785	77.17	148.9		92.50
21	853	113.04	200.9		93.42
22	966	116.59	182.8		94.97
23	1,129	319.37	428.8		96.23
24	2,506	12.61	7.6		103.19
25	3,583	7.08	3.0		105.46

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : sample 15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,354	13.73	4.8		106.43
27	5,509	8.27	2.3		107.88
28	6,472	8.18	1.9		109.08
29	7,618	13.18	2.6		110.34
30	10,380	75.00	10.9	Upper Marker	113.00
31	13,293	0.00	0.0		115.80

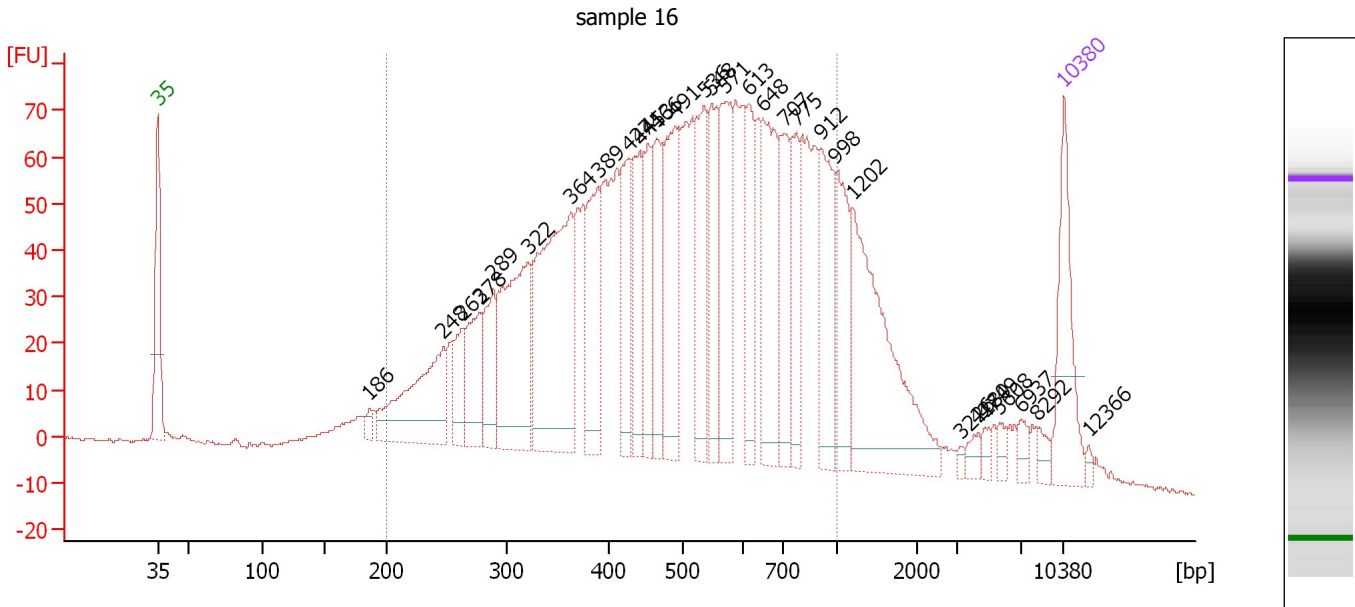
#### Region table for sample 4 : sample 15

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	510	2,545.3	12,749.7	3,476.59	81	37.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 16**

Number of peaks found: 30                      Corr. Area 1: 2,318.6  
 Noise: 0.4

**Peak table for sample 5 : sample 16**

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	186	10.67	86.7		59.37
3	248	160.27	981.0		65.06
4	263	48.13	276.9		66.53
5	278	76.11	414.4		67.90
6	289	68.80	360.2		68.93
7	322	195.02	918.8		71.63
8	364	267.22	1,113.8		74.96
9	389	105.92	412.1		77.02
10	427	80.30	285.2		79.37
11	441	86.72	297.7		80.21
12	453	67.47	225.4		80.89
13	466	78.68	256.1		81.58
14	491	132.51	409.2		83.00
15	536	101.68	287.6		85.21
16	548	85.31	235.8		85.79
17	571	120.04	318.4		86.87
18	613	74.20	183.3		88.64
19	648	137.59	321.8		89.72
20	707	79.21	169.8		91.43
21	775	66.99	131.0		92.36
22	912	96.53	160.4		94.23
23	998	80.56	122.3		95.40
24	1,202	208.13	262.4		96.68
25	3,226	3.82	1.8		105.01

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : sample 16

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,280	9.72	3.4		106.33
27	4,749	6.75	2.2		106.92
28	5,608	8.45	2.3		108.00
29	6,937	11.61	2.5		109.67
30	8,292	10.39	1.9		110.99
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,366	0.00	0.0		114.91

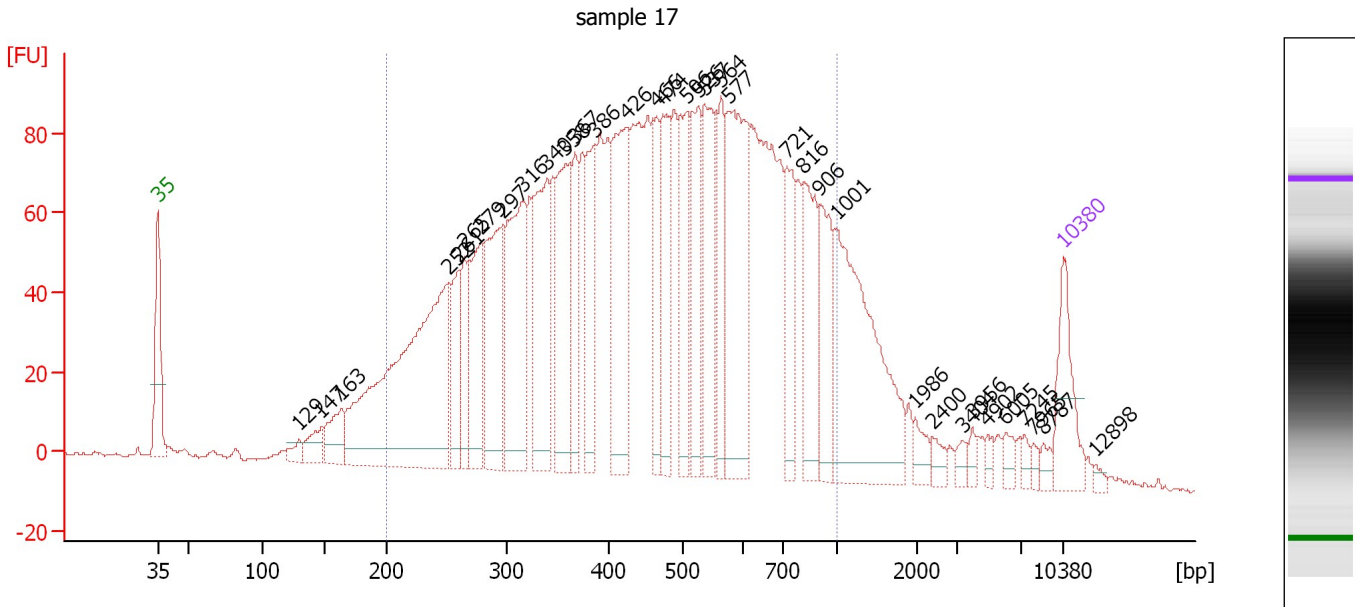
#### Region table for sample 5 : sample 16

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	513	2,318.6	10,801.2	3,006.78	83	36.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 17**

Number of peaks found: 35                      Corr. Area 1: 3,127.6  
 Noise: 0.4

**Peak table for sample 6 : sample 17**

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	129	22.48	263.5		53.93
3	147	44.01	452.7		55.66
4	163	68.39	633.9		57.20
5	252	640.47	3,853.0		65.46
6	261	92.71	538.3		66.30
7	265	91.05	520.1		66.70
8	279	165.41	899.6		67.93
9	297	223.40	1,138.4		69.66
10	316	263.59	1,263.2		71.20
11	340	218.32	973.4		73.08
12	358	191.16	809.3		74.51
13	367	109.72	452.7		75.25
14	386	124.88	490.3		76.74
15	426	234.97	836.6		79.31
16	466	110.24	358.7		81.59
17	474	127.39	407.6		82.03
18	506	149.79	448.5		83.81
19	526	130.65	376.3		84.75
20	537	169.95	479.9		85.25
21	564	101.50	272.7		86.53
22	577	277.37	728.9		87.13
23	721	104.82	220.2		91.63
24	816	141.73	263.3		92.92
25	906	105.46	176.3		94.15

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**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : sample 17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,001	315.97	478.1		95.44
27	1,986	20.82	15.9		101.52
28	2,400	14.38	9.1		102.86
29	3,404	11.14	5.0		105.23
30	3,956	9.98	3.8		105.93
31	4,902	10.27	3.2		107.11
32	6,005	14.97	3.8		108.50
33	7,245	8.64	1.8		109.98
34	7,965	8.48	1.6		110.67
35	8,787	10.32	1.8		111.47
36	10,380	75.00	10.9	Upper Marker	113.00
37	12,898	0.00	0.0		115.42

**Region table for sample 6 : sample 17**

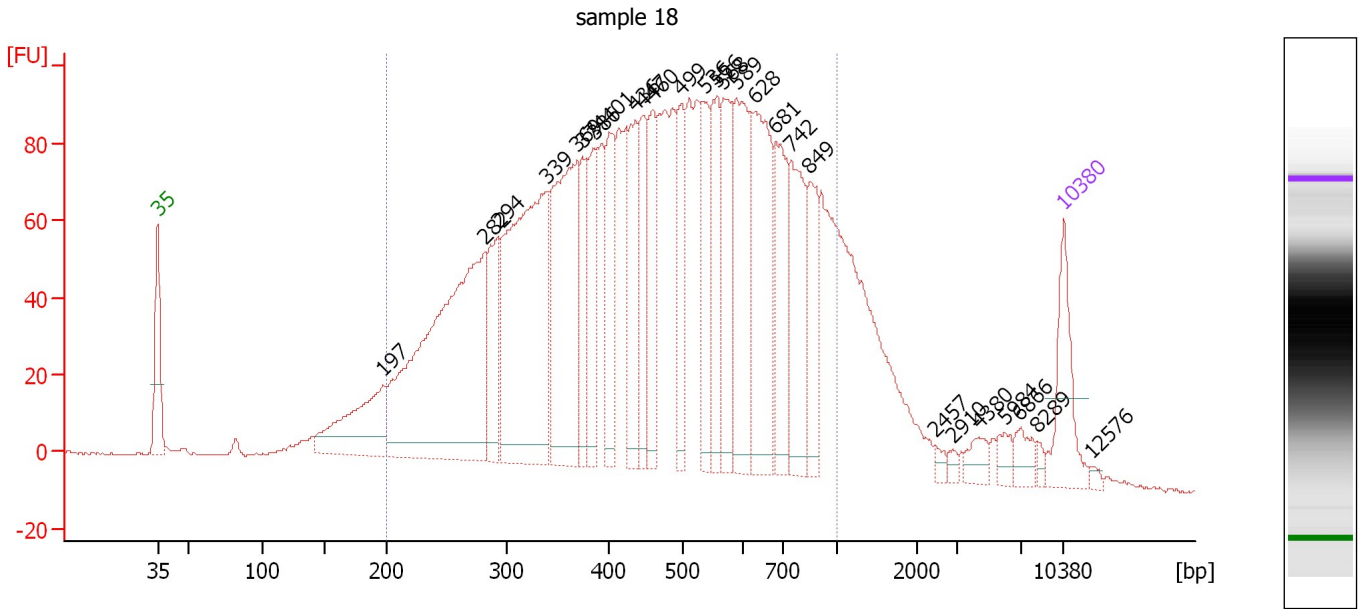
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	480	3,127.6	19,409.4	5,023.17	85	37.9



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 18**

Number of peaks found: 27                      Corr. Area 1: 3,171.8  
 Noise: 0.3

**Peak table for sample 7 : sample 18**

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	197	177.77	1,368.5		60.36
3	282	649.03	3,491.9		68.21
4	294	115.77	597.5		69.32
5	339	475.85	2,124.3		73.04
6	369	315.66	1,295.6		75.41
7	374	97.36	394.2		75.81
8	386	119.87	470.2		76.77
9	401	114.84	433.8		77.92
10	436	131.58	457.5		79.89
11	447	101.94	345.3		80.54
12	460	110.04	362.7		81.25
13	499	101.75	309.1		83.46
14	536	105.02	296.9		85.22
15	556	124.41	338.8		86.18
16	568	122.96	327.9		86.73
17	589	208.76	537.5		87.69
18	628	222.27	536.3		89.10
19	681	121.64	270.5		90.76
20	742	156.07	318.6		91.91
21	849	79.95	142.6		93.37
22	2,457	8.54	5.3		103.04
23	2,910	6.50	3.4		104.44
24	4,380	20.02	6.9		106.46
25	5,984	15.12	3.8		108.47

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 7 : sample 18

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,866	22.34	4.9		109.58
27	8,289	6.96	1.3		110.99
28	10,380	75.00	10.9	Upper Marker	113.00
29	12,576	0.00	0.0		115.11

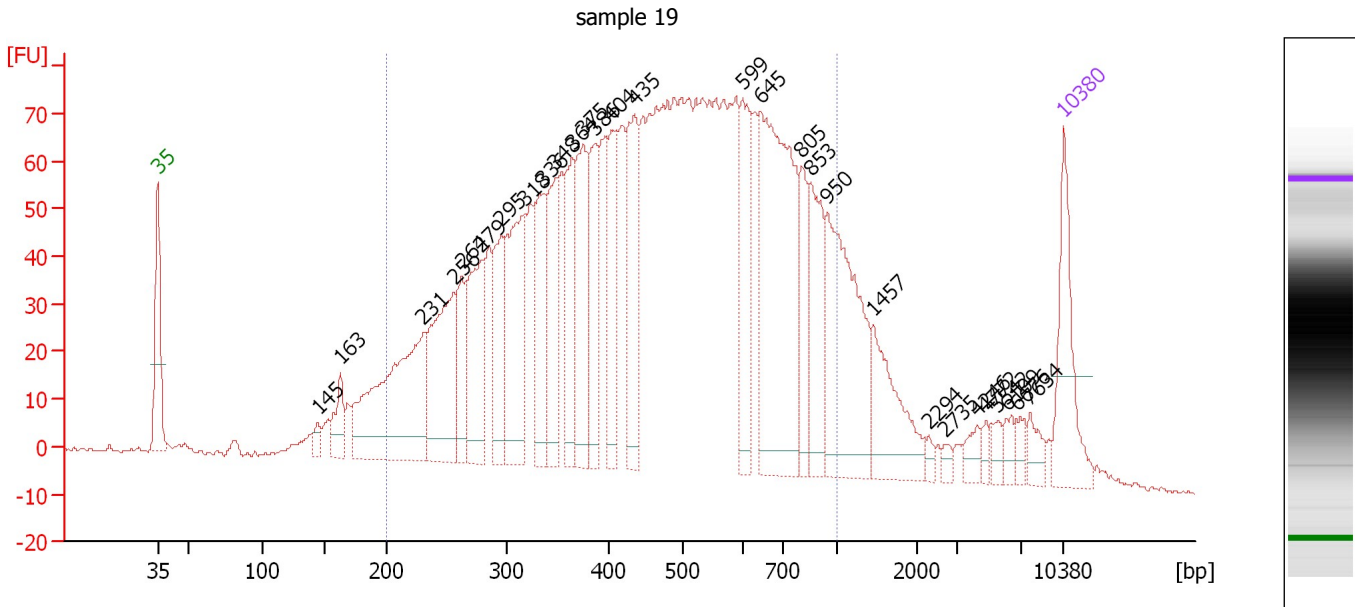
#### Region table for sample 7 : sample 18

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	487	3,171.8	17,174.2	4,520.84	85	37.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 19**

Number of peaks found: 29                      Corr. Area 1: 2,544.9  
 Noise: 0.4

**Peak table for sample 8 : sample 19**

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	145	13.77	144.3		55.40
3	163	42.95	399.8		57.13
4	231	273.63	1,794.2		63.54
5	256	176.18	1,041.2		65.88
6	264	64.28	369.6		66.54
7	279	128.64	697.5		68.01
8	295	94.82	486.4		69.49
9	318	166.50	794.2		71.32
10	336	98.44	444.5		72.74
11	348	106.03	461.2		73.76
12	364	97.31	404.7		75.03
13	375	118.34	477.9		75.89
14	386	98.79	387.7		76.75
15	404	81.34	305.2		78.08
16	435	119.98	417.7		79.86
17	599	104.72	264.8		88.19
18	645	312.99	735.6		89.62
19	805	55.89	105.2		92.77
20	853	92.33	164.0		93.43
21	950	194.76	310.6		94.75
22	1,457	84.93	88.3		98.26
23	2,294	6.43	4.2		102.53
24	2,735	6.01	3.3		103.90
25	4,246	14.12	5.0		106.29

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : sample 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,772	7.95	2.5		106.95
27	5,542	11.24	3.1		107.92
28	6,109	12.52	3.1		108.63
29	6,676	9.98	2.3		109.34
30	7,634	17.03	3.4		110.36
31	10,380	75.00	10.9	Upper Marker	113.00

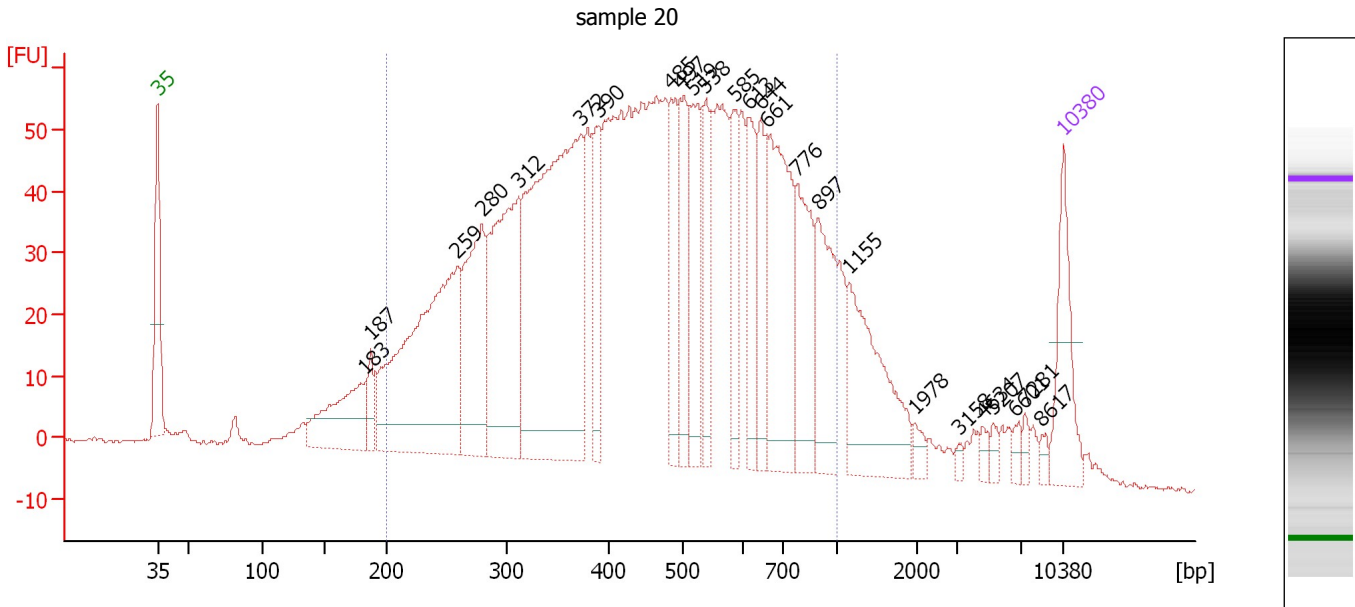
#### Region table for sample 8 : sample 19

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	486	2,544.9	13,620.0	3,583.56	85	37.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

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 Modified: 3/10/2016 4:56:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 20**

Number of peaks found: 25                      Corr. Area 1: 1,956.3  
 Noise: 0.3

**Peak table for sample 9 : sample 20**

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	183	140.76	1,165.7		59.05
3	187	38.79	313.7		59.46
4	259	463.54	2,708.9		66.14
5	280	204.72	1,108.4		68.05
6	312	309.36	1,501.7		70.88
7	372	601.09	2,446.2		75.66
8	390	89.70	348.7		77.05
9	485	104.08	325.4		82.65
10	497	96.55	294.2		83.37
11	519	118.95	347.5		84.40
12	538	83.49	235.0		85.33
13	585	76.92	199.1		87.54
14	613	84.62	209.3		88.62
15	644	78.10	183.7		89.60
16	661	211.55	485.2		90.11
17	776	122.88	239.9		92.38
18	897	115.94	195.9		94.02
19	1,155	160.24	210.2		96.39
20	1,978	11.70	9.0		101.48
21	3,158	5.43	2.6		104.93
22	4,634	8.59	2.8		106.78
23	5,207	8.37	2.4		107.50
24	6,601	8.90	2.0		109.25
25	7,281	8.80	1.8		110.02

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 9 : sample 20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	8,617	8.18	1.4		111.30
27	10,380	75.00	10.9	Upper Marker	113.00

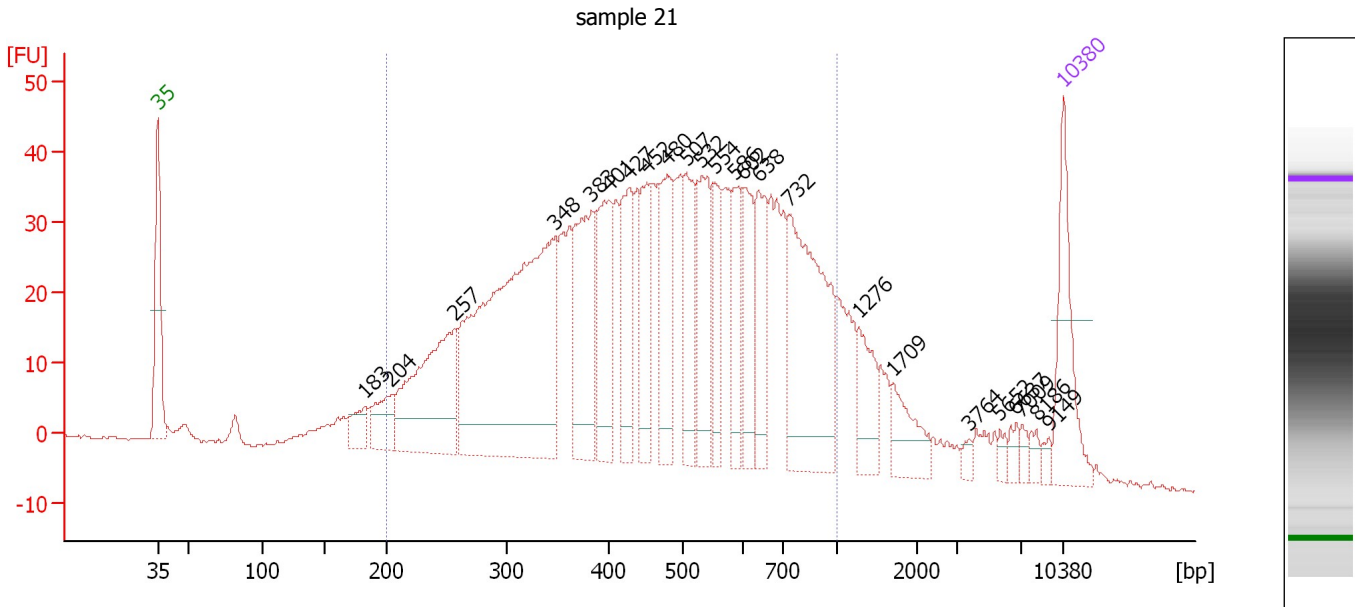
#### Region table for sample 9 : sample 20

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	476	1,956.3	15,001.5	3,878.73	86	37.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 21**

Number of peaks found: 24                      Corr. Area 1: 1,292.0  
 Noise: 0.2

**Peak table for sample 10 : sample 21**

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	183	31.86	264.3		59.02
3	204	50.22	373.1		61.03
4	257	215.59	1,269.0		65.97
5	348	514.54	2,242.5		73.70
6	383	147.31	583.3		76.48
7	401	114.50	432.5		77.92
8	427	93.96	333.8		79.36
9	452	80.59	270.2		80.81
10	480	100.57	317.4		82.40
11	507	84.80	253.6		83.85
12	532	99.49	283.4		85.03
13	554	56.08	153.4		86.06
14	586	57.23	148.1		87.55
15	602	67.19	169.2		88.28
16	638	74.65	177.3		89.41
17	732	220.40	456.1		91.78
18	1,276	47.14	56.0		97.14
19	1,709	40.20	35.6		99.81
20	3,764	6.21	2.5		105.69
21	5,652	6.79	1.8		108.06
22	6,637	8.78	2.0		109.29
23	7,009	6.74	1.5		109.75
24	8,186	8.54	1.6		110.89
25	9,149	5.41	0.9		111.82

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
Modified: 3/10/2016 4:56:08 PM

**Electropherogram Summary Continued ...****... Peak table for sample 10 : sample 21**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 10 : sample 21**

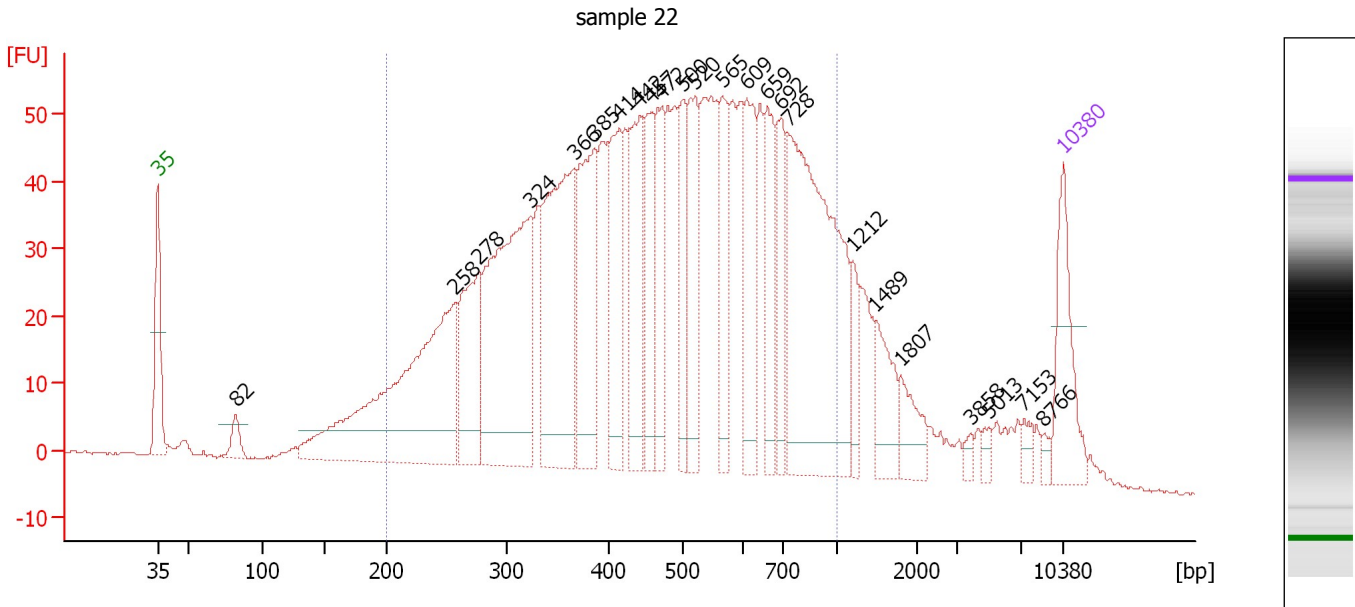
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	487	1,292.0	9,659.3	2,564.19	84	36.7



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 22**

Number of peaks found: 24                      Corr. Area 1: 1,744.5  
 Noise: 0.2

**Peak table for sample 11 : sample 22**

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	82	26.93	498.5		49.06
3	258	449.75	2,645.6		65.99
4	278	150.72	822.2		67.85
5	324	383.50	1,795.7		71.79
6	366	291.10	1,205.3		75.15
7	385	192.33	756.0		76.71
8	414	130.92	478.8		78.67
9	442	139.57	478.7		80.23
10	457	96.57	320.0		81.11
11	472	96.80	310.8		81.93
12	500	83.92	254.2		83.54
13	520	107.35	312.8		84.47
14	565	83.01	222.5		86.59
15	609	106.18	264.1		88.51
16	659	92.92	213.6		90.06
17	692	75.34	164.9		91.10
18	728	401.96	836.7		91.72
19	1,212	33.21	41.5		96.74
20	1,489	55.58	56.6		98.45
21	1,807	38.25	32.1		100.42
22	3,858	7.27	2.9		105.80
23	5,013	7.67	2.3		107.25
24	7,153	10.48	2.2		109.89
25	8,766	6.58	1.1		111.45

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

### Electropherogram Summary Continued ...

... Peak table for sample 11 : sample 22

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : sample 22

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	492	1,744.5	13,093.1	3,496.07	85	37.0

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
Modified: 3/10/2016 4:56:08 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-10\2016-03-10\_002.xad

Created: 3/10/2016 4:15:41 PM  
 Modified: 3/10/2016 4:56:08 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/10/2016 4:56:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-10\2016-03-10_002.xad)		Instrument	Run		3/10/2016 4:15:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/10/2016 4:15:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/10/2016 4:15:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/10/2016 4:15:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/10/2016 4:15:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/10/2016 4:15:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/10/2016 4:15:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1