

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-08\2015-10-08\_001.xad

Created: 10/8/2015 10:13:44 AM  
Modified: 10/8/2015 10:37:55 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

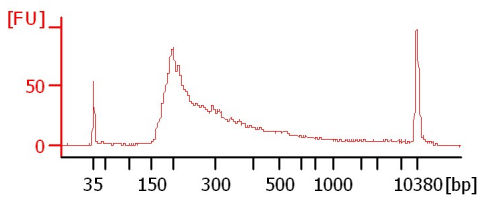
Assay Information:

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

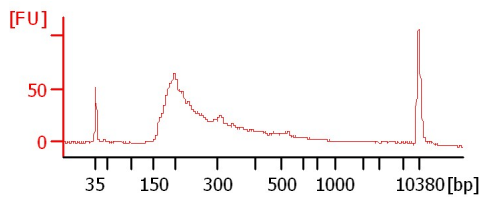
Chip Information:

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

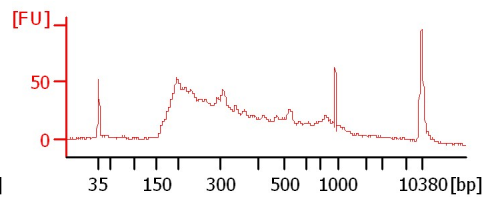
**sample 1**



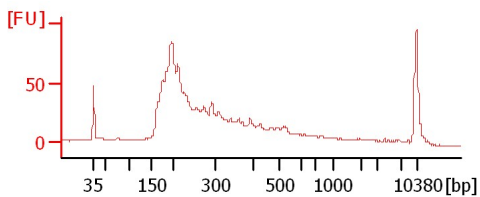
**sample 2**



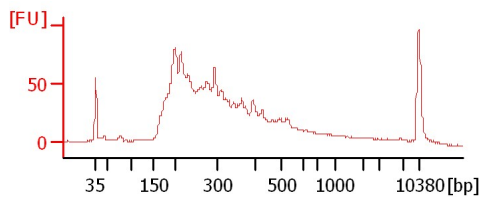
**sample 3**



**sample 4**



**sample 5**



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**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 :**

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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

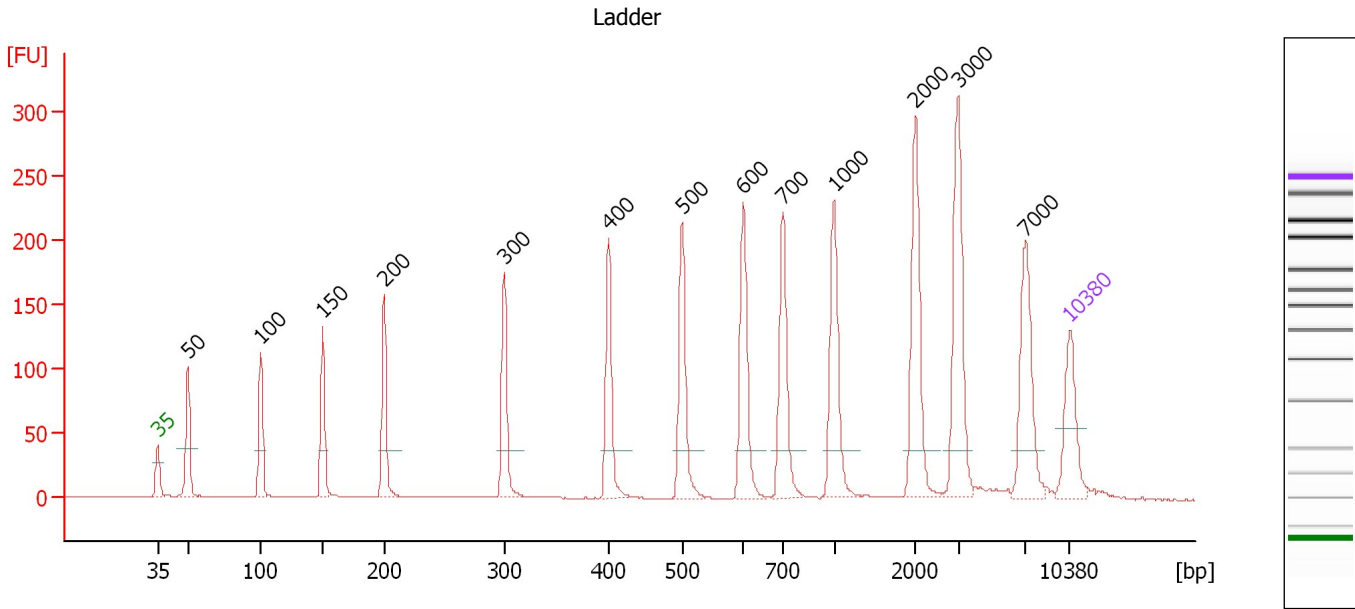
**Ladder**

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: 0.1

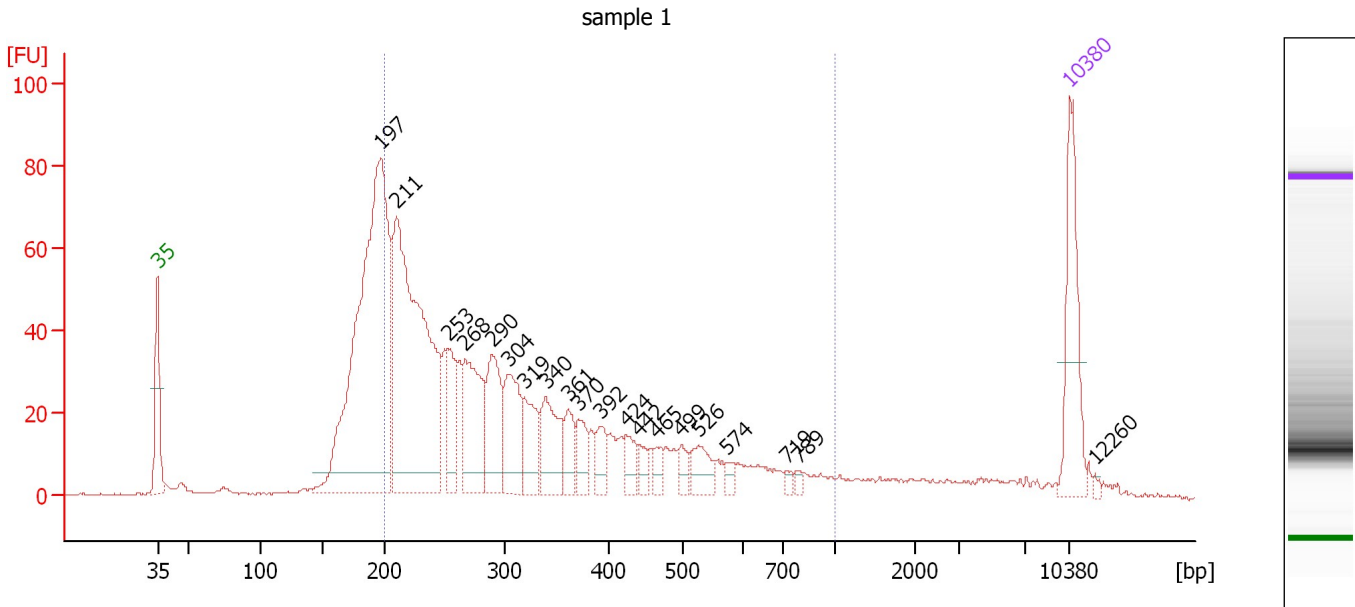
**Peak table for Ladder**

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	50.91
4	150	150.00	1,515.2	Ladder Peak	55.69
5	200	150.00	1,136.4	Ladder Peak	60.38
6	300	150.00	757.6	Ladder Peak	69.58
7	400	150.00	568.2	Ladder Peak	77.62
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	87.94
10	700	150.00	324.7	Ladder Peak	90.98
11	1,000	150.00	227.3	Ladder Peak	94.91
12	2,000	150.00	113.6	Ladder Peak	101.16
13	3,000	150.00	75.8	Ladder Peak	104.42
14	7,000	150.00	32.5	Ladder Peak	109.56
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 20                      Corr. Area 1: 1,070.8  
 Noise: 0.2

**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	197	589.60	4,527.7		60.12
3	211	458.56	3,298.9		61.35
4	253	59.95	358.8		65.27
5	268	114.65	649.3		66.59
6	290	86.65	453.0		68.64
7	304	77.47	385.9		69.92
8	319	53.61	254.3		71.15
9	340	65.13	290.3		72.79
10	361	30.48	127.8		74.52
11	370	28.16	115.2		75.24
12	392	24.71	95.5		76.98
13	424	21.24	75.9		78.98
14	442	12.26	42.0		79.98
15	465	11.11	36.2		81.30
16	499	13.58	41.2		83.21
17	526	28.23	81.3		84.49
18	574	7.61	20.1		86.72
19	719	4.74	10.0		91.23
20	789	4.27	8.2		92.14
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,260	0.00	0.0		114.91

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**Electropherogram Summary Continued ...**

... Region table for sample 1 :

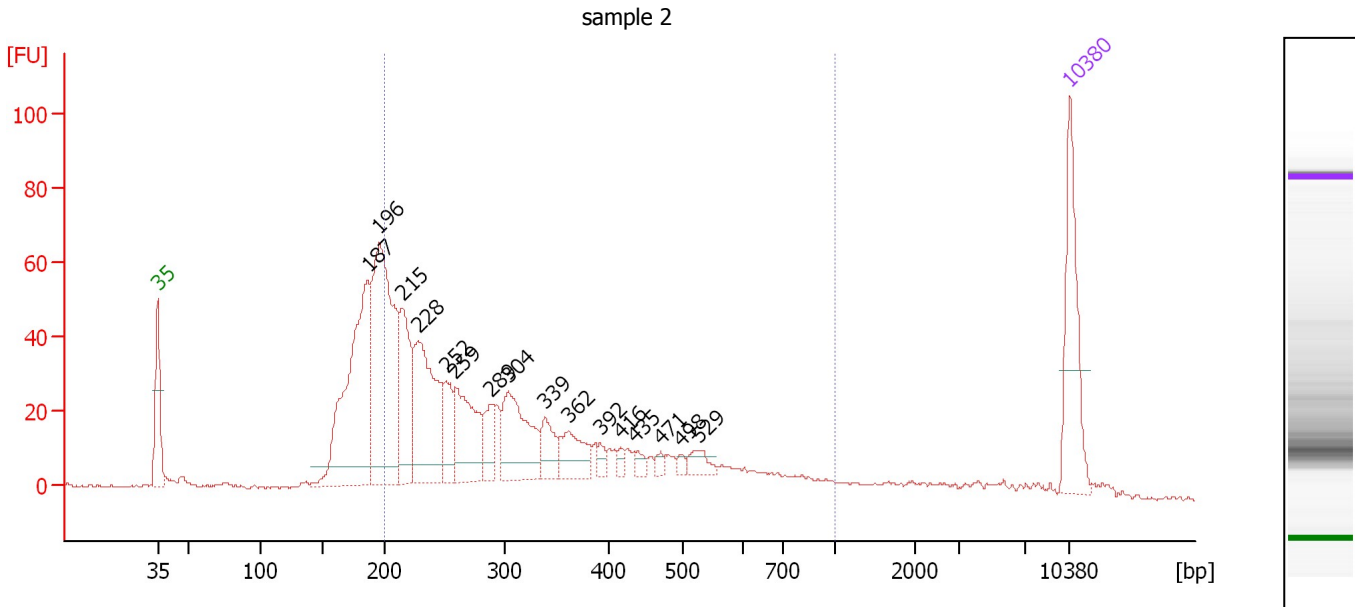
sample 1

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	337	1,070.8	7,653.2	1,435.33	70	42.8

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 16                      Corr. Area 1: 850.9  
 Noise: 0.5

**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	187	278.13	2,258.2		59.12
3	196	294.87	2,279.4		60.00
4	215	107.33	756.2		61.76
5	228	166.38	1,105.0		62.97
6	252	46.73	281.2		65.14
7	259	97.08	567.1		65.84
8	289	31.88	167.4		68.53
9	304	100.78	502.0		69.92
10	339	31.93	142.8		72.70
11	362	42.87	179.5		74.55
12	392	8.83	34.1		76.96
13	416	6.65	24.2		78.53
14	435	8.41	29.3		79.60
15	471	6.15	19.8		81.59
16	498	4.96	15.1		83.12
17	529	14.39	41.2		84.60
18	10,380	75.00	10.9	Upper Marker	113.00

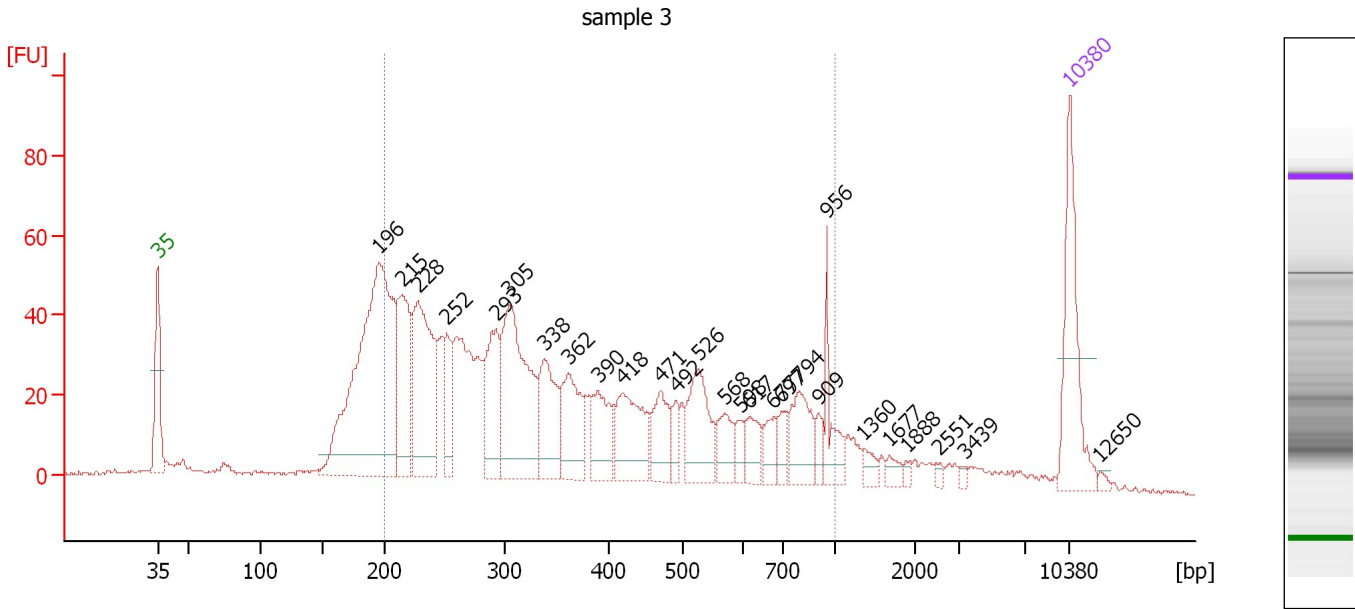
**Region table for sample 2 : sample 2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	336	850.9	5,700.9	1,066.29	68	42.4

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 27                      Corr. Area 1: 1,327.0  
 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	196	416.27	3,215.3		60.02
3	215	116.23	819.0		61.76
4	228	171.63	1,138.7		62.99
5	252	45.38	272.4		65.20
6	293	83.82	432.8		68.97
7	305	180.51	897.4		69.96
8	338	77.28	346.2		72.65
9	362	70.93	297.2		74.54
10	390	51.71	201.0		76.80
11	418	76.72	278.1		78.64
12	471	43.69	140.6		81.61
13	492	17.85	55.0		82.78
14	526	66.90	192.6		84.48
15	568	28.51	76.0		86.46
16	598	13.13	33.3		87.83
17	617	23.94	58.8		88.44
18	677	19.84	44.4		90.28
19	697	18.26	39.7		90.89
20	794	46.70	89.1		92.21
21	909	11.27	18.8		93.72
22	956	33.46	53.0		94.33
23	1,360	9.53	10.6		97.16
24	1,677	7.85	7.1		99.14
25	1,888	3.47	2.8		100.46



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### Electropherogram Summary Continued ...

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

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,551	3.65	2.2		102.96
27	3,439	2.69	1.2		104.99
28	10,380	75.00	10.9	Upper Marker	113.00
29	12,650	0.00	0.0		115.31

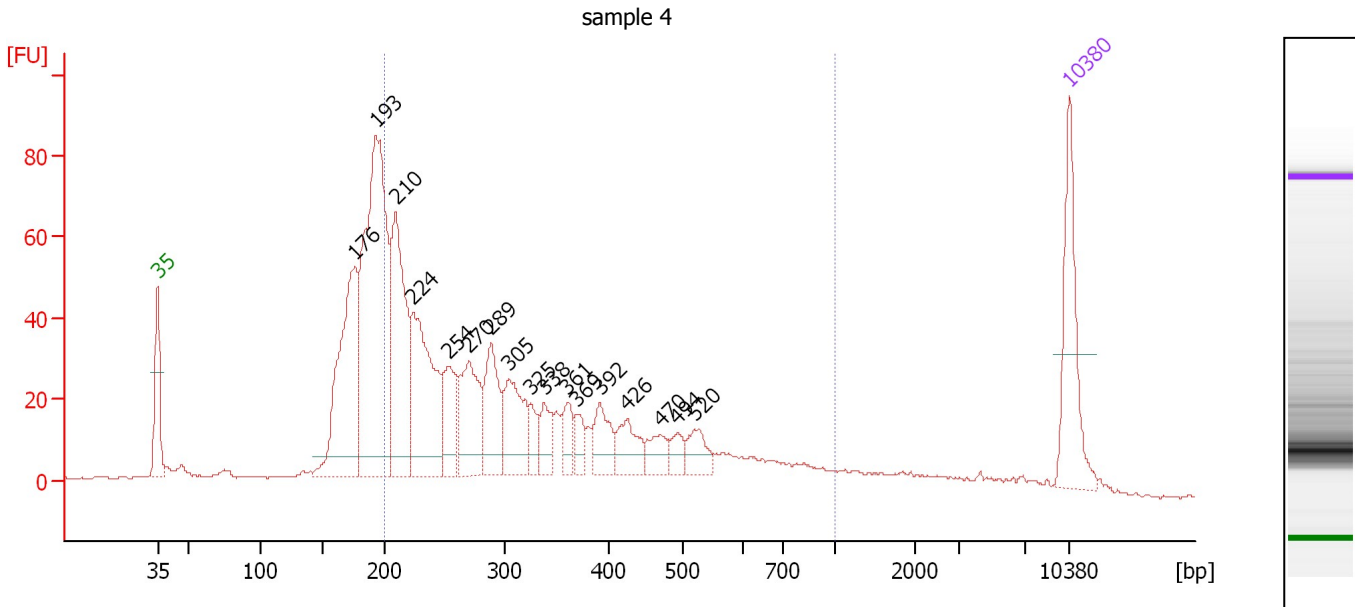
#### Region table for sample 3 : sample 3

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	404	1,327.0	7,674.9	1,606.53	74	47.0

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 17      Corr. Area 1: 980.8  
 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	176	236.38	2,035.3		58.12
3	193	423.12	3,315.2		59.76
4	210	199.33	1,438.5		61.29
5	224	183.42	1,240.5		62.59
6	254	65.31	389.2		65.37
7	270	96.29	539.4		66.86
8	289	78.98	413.7		68.59
9	305	82.19	408.3		69.98
10	325	21.54	100.3		71.61
11	338	30.35	135.9		72.67
12	361	25.01	105.1		74.45
13	369	19.91	81.8		75.12
14	392	38.97	150.8		76.94
15	426	36.22	129.0		79.06
16	470	23.53	75.9		81.55
17	494	16.07	49.3		82.90
18	520	25.79	75.1		84.19
19	10,380	75.00	10.9	Upper Marker	113.00

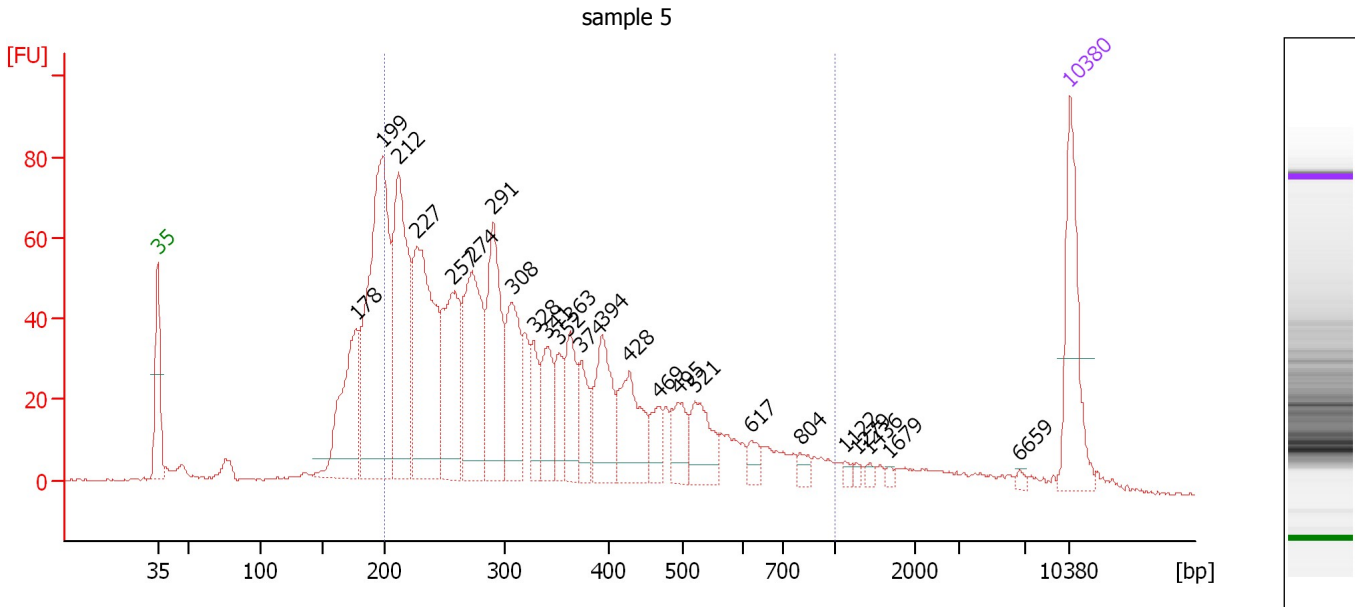
**Region table for sample 4 : sample 4**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	347	980.8	6,651.2	1,267.77	64	43.3

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 25                      Corr. Area 1: 1,515.0  
 Noise: 0.3

**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	178	146.30	1,248.9		58.27
3	199	354.25	2,697.8		60.28
4	212	224.46	1,602.2		61.51
5	227	238.78	1,592.3		62.88
6	257	142.59	842.1		65.58
7	274	164.53	911.1		67.15
8	291	144.87	753.7		68.77
9	308	101.25	498.6		70.19
10	328	41.06	189.4		71.86
11	341	54.27	241.0		72.89
12	352	34.57	148.7		73.78
13	363	56.28	234.8		74.66
14	374	40.93	166.0		75.50
15	394	79.04	304.2		77.12
16	428	76.72	271.8		79.18
17	469	27.12	87.7		81.49
18	495	35.18	107.7		82.96
19	521	48.81	141.9		84.23
20	617	13.05	32.1		88.46
21	804	9.06	17.1		92.33
22	1,122	4.44	6.0		95.67
23	1,279	3.36	4.0		96.65
24	1,436	4.13	4.4		97.64
25	1,679	2.92	2.6		99.16

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**Electropherogram Summary Continued ...****... Peak table for sample 5 : sample 5**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,659	2.76	0.6		109.12
27	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	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	351	1,515.0	9,461.3	1,853.26	76	41.1

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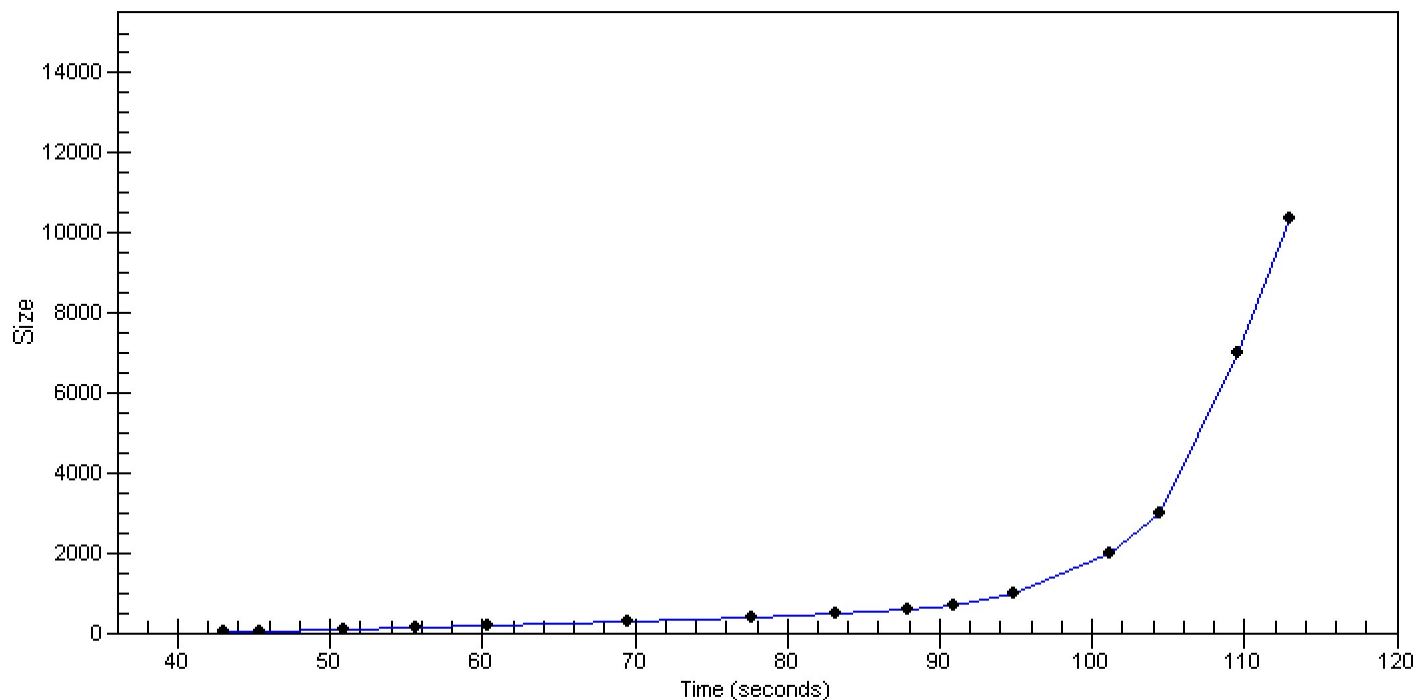
**Gel Image**

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**Curves**

**Standard Curve**



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**Invalid Samples**

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		10/8/2015 10:37:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-08\2015-10-08_001.xad)		Instrument	Run		10/8/2015 10:13:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/8/2015 10:13:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/8/2015 10:13:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/8/2015 10:13:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/8/2015 10:13:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/8/2015 10:13:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/8/2015 10:13:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1